```
From 3722173321446901297
X-Google-Thread: 112d1e,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.120.139 with SMTP id lc11mr94545pab.8.1362712653594;
        Thu, 07 Mar 2013 19:17:33 -0800 (PST)
Path: q9ni4185pba.1!nntp.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
news.astraweb.com!border5.newsrouter.astraweb.com!not-for-mail
From: Jim Mueller <wrongname@nospam.com>
Subject: Re: Antenna Simulation in LTspice
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
     <kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me>
     <kgr44f$5lr$7@dont-email.me> <kgrlvp$rgk$1@dont-email.me>
     <kh83nl$uqo$1@dont-email.me> <kh8pgv$nob$1@dont-email.me>
     <kha9e1$9qt$1@dont-email.me>
User-Agent: Pan/0.136 (I'm far too busy being delicious; GIT 926a150
     git://git.gnome.org/pan2)
MIME-Version: 1.0
Date: 08 Mar 2013 03:17:33 GMT
Lines: 55
Message-ID: <5139584d$0$54952$c3e8da3$e408f015@news.astraweb.com>
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 2d3727f3.news.astraweb.com
X-Trace: DXC=EgfmfYLOg2Lo;ii5o?B_6AL?
0kYOcDh@J9OWGAmZaQhDnVPLie1YL`DE[^3AaXCNSKh1mWJX8RLZMF:@e5`;C]CA:YOe7EG=_LN2R<LHIG
9PiG
Bytes: 3605
X-Received-Bytes: 3653
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
```

On Thu, 07 Mar 2013 09:50:11 -0500, rickman wrote:

```
> On 3/6/2013 8:13 PM, Tim Williams wrote:
>> "rickman"<gnuarm@gmail.com>  wrote in message

<snip>
>
>
>>> I'm not familiar with the concept of voltage transformer vs. current
>>> transformer.  How do you mean that?
>>
>> Current transformer measures current (its winding is in series),
>> potential transformer measures voltage (in parallel).
>
> Series and parallel with what?  I'm not following this.
```

>
<snip>

An electric circuit consists of a source of power, a load, and something (like wires) connecting them. Transformers can be used if the source is providing alternating current. A voltage transformer is connected in parallel with the load so that the source, the transformer, and the load all see the same voltage. It can also be used to match a load to a source. A common example of a voltage transformer is the power transformer in a piece of equipment that changes the AC line voltage to whatever other voltages are required by the equipment.

A current transformer, on the other hand, is connected in series with the load so that the source, load, and transformer all have the same current flowing through them. The most common use of a current transformer is to measure the current flowing into a load. A clamp-on ammeter is a common example.

Historical examples of voltage and current transformers are the "picture tube brighteners" that were commonly used in TV sets to prolong the useful life of the CRT. There were two types, parallel and series. The parallel types were used in transformer operated TVs and consisted of a step-up transformer to raise the heater voltage of the CRT above normal to increase emission. The series type was used in sets with the tube heaters in series and consisted of a step-down transformer that raised the heater current above normal. Of course, raising either the voltage or the current also raised the other. These were, respectively, voltage and current transformers.

A loop antenna is a distributed source with the voltage being generated along the length of the wire and also having a magnetic field so that it can be used as part of a transformer. This blurs the distinction between a current and voltage transformer.

--
Jim Mueller wrongname@nospam.com

To get my real email address, replace wrongname with dadoheadman.
Then replace nospam with fastmail. Lastly, replace com with us.

```
From -2353354685051993847
X-Google-Thread: fc2a5,ef0a155a15e2887f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.74.79 with SMTP id r15mr2155820wiv.4.1358724187689;
        Sun, 20 Jan 2013 15:23:07 -0800 (PST)
Path: o9ni10066wio.1!nntp.google.com!goblin3!goblin1!goblin.stu.neva.ru!
news.astraweb.com!border5.a.newsrouter.astraweb.com!not-for-mail
From: Jim Mueller <wrongname@nospam.com>
Subject: Re: PCB123 tutorial ne1?
```

Newsgroups: rec.radio.amateur.homebrew
References: <c0533393-1c57-4252-9ff4-36b871cb782f@ck1g2000vbb.googlegroups.com>
User-Agent: Pan/0.136 (I'm far too busy being delicious; GIT 926a150
git://git.gnome.org/pan2)
MIME-Version: 1.0
Date: 20 Jan 2013 23:23:04 GMT
Lines: 37
Message-ID: <50fc7c58$0$47101$c3e8da3$9b4ff22a@news.astraweb.com>
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: da888dfc.news.astraweb.com
X-Trace: DXC=?_A1lAdFeM8YCNS1UYSjA1L?
0kYOcDh@:on5A=3;iFg6B2^i4h45i\:;3jmce_VG[1h1mWJX8RLZ=F:@e5`;C]C1^VBHNm:CJ=<a2<o3jL
bA[2
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

On Sun, 20 Jan 2013 07:24:46 -0800, raypsi wrote:

> I want to make a minus 400vdc supply for my grounded screen QRO PA. I have iron on resist for masking, for solder masking silk screening and PCB etching I'd like to make it look professional. The Solder Masking Iron on is blue and can be used to etch and silk screen I have 5 sheets of 8.5X11. I have PCB material and ferric chloride
>
> I thought PCB123 had schematic layouts that went to PCB layouts so I could just print that on clear mylar on my printer and expose it to the iron on resist.
>
> I could do every thing by hand then I need a drafting table.
>
> Anybody have a link to a good tutorial?
>
> I got laptop wit 32bit XP pro and an HP printer

I haven't used PCB123 but I have used ExpressPCB which is similar. The purpose of these products is to sell PC boards made by the company that provides the software. Since this is the case, there is no provision (at least in ExpressPCB) to print a layout in a way that can be used to etch a board. Also, at least for ExpressPCB, the NRE is way too expensive to have one board made for home use. If you find these things to not be true for PCB123, please let us know; it would be welcome news.

Another thing that I haven't done but have heard is that clear mylar isn't a good medium for making masks; the ink/toner won't go on thickly enough to be opaque. Vellum is a better choice.

Good luck,

--
Jim Mueller wrongname@nospam.com

To get my real email address, replace wrongname with dadoheadman.
Then replace nospam with fastmail. Lastly, replace com with us.

```
From -1277190395129154582
X-Google-Thread: 241b302a50,ef0a155a15e2887f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.224.175.65 with SMTP id w1mr10235693qaz.7.1358758702614;
        Mon, 21 Jan 2013 00:58:22 -0800 (PST)
X-Received: by 10.49.94.143 with SMTP id dc15mr3584060qeb.32.1358758702531;
 Mon, 21 Jan 2013 00:58:22 -0800 (PST)
Path: k2ni1457qap.0!nntp.google.com!p13no3879708qai.0!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Mon, 21 Jan 2013 00:58:22 -0800 (PST)
In-Reply-To: <50fc7c58$0$47101$c3e8da3$9b4ff22a@news.astraweb.com>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=69.14.52.106;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
NNTP-Posting-Host: 69.14.52.106
References: <c0533393-1c57-4252-9ff4-36b871cb782f@ck1g2000vbb.googlegroups.com>
 <50fc7c58$0$47101$c3e8da3$9b4ff22a@news.astraweb.com>
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <0396d072-1706-41ff-9838-3ec4ebbb87cb@googlegroups.com>
Subject: Re: PCB123 tutorial ne1?
From: raypsi <RBorowiak@gmail.com>
Injection-Date: Mon, 21 Jan 2013 08:58:22 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

Well then, when I send in the files they need to produce the PCB how will I know it's going to come out right, wait unless the software shows me a layout of the PCB on my monitor and I just do a print screen and photoshop it?

A costumer would be not so bright to spend hundreds of USD on a bunch of PCB's that don't come out right.

PCB123's minimum cost is $109 for 2pcs of 9 square inch board. You must be from a third world backwater country if you think that is a high price.

```
From 761428297207047219
X-Google-Thread: fc2a5,ef0a155a15e2887f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.84.167 with SMTP id a7mr2252221paz.6.1358792158007;
        Mon, 21 Jan 2013 10:15:58 -0800 (PST)
Path: 6ni10149pbd.1!nntp.google.com!news.glorb.com!feeder.erje.net!
us.feeder.erje.net!newsfeed.straub-nv.de!eternal-september.org!feeder.eternal-
september.org!mx04.eternal-september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PCB123 tutorial ne1?
Date: Mon, 21 Jan 2013 13:15:54 -0500
```

```
Organization: A noiseless patient Spider
Lines: 13
Message-ID: <kdk0kt$697$2@dont-email.me>
References: <c0533393-1c57-4252-9ff4-36b871cb782f@ck1g2000vbb.googlegroups.com>
<50fc7c58$0$47101$c3e8da3$9b4ff22a@news.astraweb.com>
<0396d072-1706-41ff-9838-3ec4ebbb87cb@googlegroups.com>
Mime-Version: 1.0
Injection-Date: Mon, 21 Jan 2013 18:15:57 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-
host="8dbda44a7e029ae66921835197d567ad";
     logging-data="6439"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/IHVlYugtpPcn61W8ONrJU"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
In-Reply-To: <0396d072-1706-41ff-9838-3ec4ebbb87cb@googlegroups.com>
Cancel-Lock: sha1:ARIUPVG3FqnWz3fMtleq+cLh3CU=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 1/21/2013 3:58 AM, raypsi wrote:

> Well then, when I send in the files they need to produce the PCB how will I know it's going to come out right, wait unless the software shows me a layout of the PCB on my monitor and I just do a print screen and photoshop it?
> A costumer would be not so bright to spend hundreds of USD on a bunch of PCB's that don't come out right.
> PCB123's minimum cost is $109 for 2pcs of 9 square inch board. You must be from a third world backwater country if you think that is a high price.

You don't get the concept. They lock you into buying boards only from them. Otherwise they would just let you produce Gerber files from the tool.

Why not use a good, open source tool like FreePCB? That is what I recommend.

Rick

```
From 1417300755895802567
X-Google-Thread: fc2a5,ef0a155a15e2887f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.224.130 with SMTP id rc2mr1196413pbc.2.1358806363855;
        Mon, 21 Jan 2013 14:12:43 -0800 (PST)
Path: s9ni10595pbb.0!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 21 Jan 2013 16:12:43 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: PCB123 tutorial ne1?
Newsgroups: rec.radio.amateur.homebrew
References: <c0533393-1c57-4252-9ff4-36b871cb782f@ck1g2000vbb.googlegroups.com>
```

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     <50fc7c58$0$47101$c3e8da3$9b4ff22a@news.astraweb.com>
     <0396d072-1706-41ff-9838-3ec4ebbb87cb@googlegroups.com>
User-Agent: Pan/0.133 (House of Butterflies)
MIME-Version: 1.0
Message-ID: <GdSdnX--ldTGIGDNnZ2dnUVZ5qednZ2d@giganews.com>
Date: Mon, 21 Jan 2013 16:12:43 -0600
Lines: 29
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-gAF0wauOWibY0C/
hHN6wUrowB3Gcm5peUW+N2bA1tShqMKgTNdRefeNAMc6mjvvFcetCTIVFVhkvHt4!
yiJuQVRflYkxdO9xxn6qjFhamk+q1M8EtYwQOFgl2xdzd2ZU5htf1jNOe24O2Mu7ublwklCf26CU
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 2441
X-Original-Bytes: 2380
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
```

On Mon, 21 Jan 2013 00:58:22 -0800, raypsi wrote:

> Well then, when I send in the files they need to produce the PCB how
> will I know it's going to come out right, wait unless the software shows
> me a layout of the PCB on my monitor and I just do a print screen and
> photoshop it?

You're supposed to be good enough to look at the layout on the screen and know. The whole point of the rapid-turn PCB houses is that they make you a board so that you don't have to.

> A costumer would be not so bright to spend hundreds of USD
> on a bunch of PCB's that don't come out right. PCB123's minimum cost is
> $109 for 2pcs of 9 square inch board. You must be from a third world
> backwater country if you think that is a high price.

That's a much higher price than BatchPCB, which charges $2.50/sqin + $10/order.

$109/board is too much for my hobby budget, although I routinely pay that much for professional stuff.

--
My liberal friends think I'm a conservative kook.
My conservative friends think I'm a liberal kook.
Why am I not happy that they have found common ground?

Tim Wescott, Communications, Control, Circuits & Software
http://www.wescottdesign.com

```
From -4177138160064352830
X-Google-Thread: fc2a5,ef0a155a15e2887f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.75.71 with SMTP id a7mr2634537paw.47.1358806421879;
        Mon, 21 Jan 2013 14:13:41 -0800 (PST)
Path: 6ni10508pbd.1!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 21 Jan 2013 16:13:41 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: PCB123 tutorial ne1?
Newsgroups: rec.radio.amateur.homebrew
References: <c0533393-1c57-4252-9ff4-36b871cb782f@ck1g2000vbb.googlegroups.com>
     <50fc7c58$0$47101$c3e8da3$9b4ff22a@news.astraweb.com>
     <0396d072-1706-41ff-9838-3ec4ebbb87cb@googlegroups.com>
     <kdk0kt$697$2@dont-email.me>
User-Agent: Pan/0.133 (House of Butterflies)
MIME-Version: 1.0
Message-ID: <GdSdnX6-ldQIIGDNnZ2dnUVZ5qcAAAAA@giganews.com>
Date: Mon, 21 Jan 2013 16:13:41 -0600
Lines: 30
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
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1PD3NfDORla9tWJNByNFuiBDwLd885lp1nWW0bBVI5XWnrRbbP8187QhsjbIc3N65FJrRH+8J//4
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 2543
X-Original-Bytes: 2482
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

On Mon, 21 Jan 2013 13:15:54 -0500, rickman wrote:

> On 1/21/2013 3:58 AM, raypsi wrote:
>> Well then, when I send in the files they need to produce the PCB how
>> will I know it's going to come out right, wait unless the software
>> shows me a layout of the PCB on my monitor and I just do a print screen
>> and photoshop it? A costumer would be not so bright to spend hundreds
>> of USD on a bunch of PCB's that don't come out right. PCB123's minimum
>> cost is $109 for 2pcs of 9 square inch board. You must be from a third
>> world backwater country if you think that is a high price.
>
> You don't get the concept.  They lock you into buying boards only from
> them.  Otherwise they would just let you produce Gerber files from the
> tool.
>
```

> Why not use a good, open source tool like FreePCB? That is what I
> recommend.
>
> Rick

I use Eagle, but I started before the open-source tools got good enough to be real. They have a limited-size free (but not open source) version.

--
My liberal friends think I'm a conservative kook.
My conservative friends think I'm a liberal kook.
Why am I not happy that they have found common ground?

Tim Wescott, Communications, Control, Circuits & Software
http://www.wescottdesign.com

```
From -8932326327944695821
X-Google-Thread: a4a23d5f63,ab9a2ffd98939a4e,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.19.66 with SMTP id c2mr1058092wie.6.1359518342037;
        Tue, 29 Jan 2013 19:59:02 -0800 (PST)
MIME-Version: 1.0
Path: i11ni28358wiw.0!nntp.google.com!feeder1.cambriumusenet.nl!
82.197.223.108.MISMATCH!feeder2.cambriumusenet.nl!feed.tweaknews.nl!
85.12.40.130.MISMATCH!xlned.com!feeder1.xlned.com!border2.nntp.ams.giganews.com!
border3.nntp.ams.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!
weretis.net!feeder1.news.weretis.net!feeder.visyn.net!visyn.net!feeds.phibee-
telecom.net!de-l.enfer-du-nord.net!feeder2.enfer-du-nord.net!news.glorb.com!news-
out.readnews.com!transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1357542300@panix.com>
Followup-To: poster
Date: 22 Jan 2013 02:05:01 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Feb 2013 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1358838300@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1358838303 17636 166.84.1.2 (22 Jan 2013 07:05:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 22 Jan 2013 07:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
```

Bytes: 3934

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted twice monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |
rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

```
From -7329808001330927465
X-Google-Thread: 241b302a50,4963ccd4c4b9be70,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.224.218.2 with SMTP id ho2mr12619135qab.8.1358868236218;
        Tue, 22 Jan 2013 07:23:56 -0800 (PST)
X-Received: by 10.49.96.196 with SMTP id du4mr4691024qeb.37.1358868235967;
 Tue, 22 Jan 2013 07:23:55 -0800 (PST)
Path: k2ni1457qap.0!nntp.google.com!p13no4129998qai.0!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Tue, 22 Jan 2013 07:23:55 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=188.190.126.66;
 posting-account=lpvsOQoAAADrItjCNLUGUA4f5NKzjLsd
NNTP-Posting-Host: 188.190.126.66
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <565682e9-1e51-4939-b0ad-7bd2c48a4881@googlegroups.com>
Subject: Hot mama takes it from behind
From: Iran <tamarmadgecay@gmail.com>
Injection-Date: Tue, 22 Jan 2013 15:23:56 +0000
Content-Type: text/plain; charset=ISO-8859-1

 Hot mama takes it from behind   http://t.co/diyQ5GAt


From 3370650277741303652
X-Google-Thread: fc2a5,ef0a155a15e2887f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.86.129 with SMTP id p1mr3181262paz.24.1358904374221;
        Tue, 22 Jan 2013 17:26:14 -0800 (PST)
Path: s9ni12568pbb.0!nntp.google.com!news.glorb.com!news.astraweb.com!
border5.newsrouter.astraweb.com!not-for-mail
From: Jim Mueller <wrongname@nospam.com>
Subject: Re: PCB123 tutorial ne1?
Newsgroups: rec.radio.amateur.homebrew
References: <c0533393-1c57-4252-9ff4-36b871cb782f@ck1g2000vbb.googlegroups.com>
     <50fc7c58$0$47101$c3e8da3$9b4ff22a@news.astraweb.com>
     <0396d072-1706-41ff-9838-3ec4ebbb87cb@googlegroups.com>
     <kdk0kt$697$2@dont-email.me>
User-Agent: Pan/0.136 (I'm far too busy being delicious; GIT 926a150
     git://git.gnome.org/pan2)
MIME-Version: 1.0
Date: 23 Jan 2013 01:11:19 GMT
Lines: 30
Message-ID: <50ff38b7$0$52209$c3e8da3$92d0a893@news.astraweb.com>
Organization: Unlimited download news at news.astraweb.com
```

```
NNTP-Posting-Host: a0667ee9.news.astraweb.com
X-Trace: DXC=3JLJCdV9DDgJ?XMfTm0i_cL?
0kYOcDh@jVKPOGc:eIRi[FIR:V5`5hfl9B_G1R=S=gA7HIQ=nki2gbeXFSKXD_JjUa2\fDj_QXmF@OCH1V
lh6c
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

On Mon, 21 Jan 2013 13:15:54 -0500, rickman wrote:

> On 1/21/2013 3:58 AM, raypsi wrote:
>> Well then, when I send in the files they need to produce the PCB how
>> will I know it's going to come out right, wait unless the software
>> shows me a layout of the PCB on my monitor and I just do a print screen
>> and photoshop it?
>> A costumer would be not so bright to spend hundreds of USD on a bunch
>> of PCB's that don't come out right.
>> PCB123's minimum cost is $109 for 2pcs of 9 square inch board. You must
>> be from a third world backwater country if you think that is a high
>> price.
>
> You don't get the concept.  They lock you into buying boards only from
> them.  Otherwise they would just let you produce Gerber files from the
> tool.
>
> Why not use a good, open source tool like FreePCB?  That is what I
> recommend.
>
> Rick

Actually ExpressPCB doesn't completely lock you in.  They will make
Gerber files for you for $60 AFTER you have ordered some boards.

--
Jim Mueller wrongname@nospam.com

To get my real email address, replace wrongname with dadoheadman.
Then replace nospam with fastmail.  Lastly, replace com with us.


From 3773353670264079592
X-Google-Thread: fc2a5,e4ed07ef9da6259a,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.226.168 with SMTP id rt8mr474190pbc.8.1359022548674;
        Thu, 24 Jan 2013 02:15:48 -0800 (PST)
MIME-Version: 1.0
X-Received: by 10.50.33.171 with SMTP id s11mr296307igi.13.1359022548635; Thu,
 24 Jan 2013 02:15:48 -0800 (PST)
Path: s9ni14287pbb.0!nntp.google.com!ld4no13599759pbb.0!postnews.google.com!
th3g2000pbc.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Thu, 24 Jan 2013 02:15:48 -0800 (PST)
```

```
Complaints-To: groups-abuse@google.com
Injection-Info: th3g2000pbc.googlegroups.com; posting-host=117.199.249.144;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
NNTP-Posting-Host: 117.199.249.144
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:17.0) Gecko/20100101 Firefox/
17.0,gzip(gfe)
Message-ID: <02f0c706-bae3-4225-85c3-7aa4ac3dc045@th3g2000pbc.googlegroups.com>
Subject: HOT SEXY VIDEOS PRESENT MASLA PHOTOS FOR ADULTS
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Injection-Date: Thu, 24 Jan 2013 10:15:48 +0000
Content-Type: text/plain; charset=ISO-8859-1

     VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.in/2011/06/real-kiss-hot-videos.html




for mopre hot videos
http://allvideosforyouth.blogspot.in/2010/08/super-hot-lip-kiss.html

     jobs
http://alljobsaywhere.blogspot.in/

              mobile

mobile games free download
http://mobileallinforation.blogspot.in



 interview question
java interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/java-interview-questions-
and-answers.html
oracle interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/oracle-interview-
questions-and-answers.html
hardware interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/hardware-interview-
questions-and-answers.html
networking interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/networking-interview-
questions-and.html
dotnet interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/dotnet-interview-
questions-and-answers.html
c interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/c-interview-questions-and-
answers.html
datawarehousing interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/datawarehousing-interview-
questions-and.html
sap interview questions and answers
```

http://alljobsandinterviwquestions.blogspot.com/2012/08/sap-interview-questions-and-answers.html

all jobs
java jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/java-jobs.html
oracle jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/oracle-jobs.html
sap jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/sap-jobs.html
hardware jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/hardware-jobs.html
networking jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/networking-jobs.html
datawarehousing jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/datawarehousing-jobs.html
GOOGLE ADSENSE
http://alljobsandinterviwquestions.blogspot.com/2012/08/google-adsense.html

---

```
From 1128599816228683075
X-Google-Thread: fc2a5,14e7107f35fe7934
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.78.70 with SMTP id z6mr2503420paw.5.1359408668122;
        Mon, 28 Jan 2013 13:31:08 -0800 (PST)
X-Received: by 10.50.108.174 with SMTP id hl14mr1173746igb.5.1359408668082;
 Mon, 28 Jan 2013 13:31:08 -0800 (PST)
Path: s9ni16233pbb.0!nntp.google.com!f6no13951339pbd.1!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Mon, 28 Jan 2013 13:31:07 -0800 (PST)
In-Reply-To: <db613951-6c72-434f-b1e6-78cd0a9ecf0e@googlegroups.com>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=98.234.12.80;
posting-account=AZo7EAoAAAD31aSuorv4pjje-S611hHc
NNTP-Posting-Host: 98.234.12.80
References: <0c69e395-1d12-46b1-b57c-3f766672faf3@googlegroups.com>
<db613951-6c72-434f-b1e6-78cd0a9ecf0e@googlegroups.com>
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <87a54986-5a5d-46a5-bd6d-4fcd1ca1697a@googlegroups.com>
Subject: Re: Wes Hayward hybrid cascode amplifiers from 2007 QST.
From: Dana <dana.myers@gmail.com>
Injection-Date: Mon, 28 Jan 2013 21:31:08 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

On Friday, December 14, 2012 4:08:58 PM UTC-8, raypsi wrote:

> On Tuesday, November 6, 2012 5:18:14 AM UTC-5, clifford wright wrote:
>
> > Has anyone else tried these circuits?
>
> >
>
> > I have built 2 examples, a 9 MHZ AGC controlled amplifier and a 20 dB wideband amp for a noise cancelling system.
>
> >
>
> > BIG problems! The diode string in the source of the FET always biases the J310 OFF.
>
>
>
> According to the spec sheet curves:
>
> The j310 gets turned off with a bias of 3.7vdc,

The datasheet for the J310 specifies a pinch-off voltage range
of -2.0 to -6.5V. Completely normal production variation may be
quite different than the spec sheet curve. So it sounds like
Clifford has J310s that have a relatively small pinch-off voltage,
perhaps even out of spec, and the ~2V drop of the diode chain is
biasing the FET off.

Data sheet for the Fairchild parts: http://www.fairchildsemi.com/ds/J3/J310.pdf

Dana K6JQ

From 8280676484792698332
X-Google-Thread: a4a23d5f63,7d26b4c7b4001ac5,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.19.132 with SMTP id f4mr744678wie.2.1359856951261;
        Sat, 02 Feb 2013 18:02:31 -0800 (PST)
MIME-Version: 1.0
Path: bp2ni13206wib.1!nntp.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!194.109.133.87.MISMATCH!newsfeed.xs4all.nl!newsfeed1.news.xs4all.nl!xs4all!newspeer1.nac.net!newspump.sol.net!newsfeed.hal-mli.net!feeder1.hal-mli.net!news.nobody.at!news.glorb.com!news-out.readnews.com!transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1358233201@panix.com>
Followup-To: poster

```
Date: 1 Feb 2013 02:00:02 -0500
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 19 Feb 2013 02:00:00 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1359702000@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1359702002 23515 166.84.1.2 (1 Feb 2013 07:00:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 1 Feb 2013 07:00:02 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted twice monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html
```

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

```
the rec.radio.amateur.moderated Moderation Team had decided to consider       |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup.  After a successful trial         |
period (90 days, through early July 2009), we decided to adopt this           |
change permanently.                                                           |
```

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.

```
From -2644264684092260984
X-Google-Thread: fc2a5,ef0a155a15e2887f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.72.131 with SMTP id d3mr2099095pav.38.1359741172900;
        Fri, 01 Feb 2013 09:52:52 -0800 (PST)
Path: s9ni29897pbb.0!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 01 Feb 2013 11:52:51 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: PCB123 tutorial ne1?
Newsgroups: rec.radio.amateur.homebrew
References: <c0533393-1c57-4252-9ff4-36b871cb782f@ck1g2000vbb.googlegroups.com>
     <50fc7c58$0$47101$c3e8da3$9b4ff22a@news.astraweb.com>
     <0396d072-1706-41ff-9838-3ec4ebbb87cb@googlegroups.com>
     <kdk0kt$697$2@dont-email.me>
     <50ff38b7$0$52209$c3e8da3$92d0a893@news.astraweb.com>
User-Agent: Pan/0.133 (House of Butterflies)
MIME-Version: 1.0
Message-ID: <9-ydnTYEWcBunZHMnZ2dnUVZ5gmdnZ2d@giganews.com>
Date: Fri, 01 Feb 2013 11:52:51 -0600
Lines: 39
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-YhuB/
5K50BXQA1juaoAOlrsdlGWOJbOSVUsofljhUo54xL5MAzaLIf6Z6lVvqjWmrNp5l+ajZJWRUE1!
t2hTtmpaHS1y1CBMcOxE4Ao6JRCc4/4OYwtenMDOXOXvl2+p4CvZRzMmNK86bVMo4AhZD5e1yP5z
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 2838
X-Original-Bytes: 2777
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
```

On Wed, 23 Jan 2013 01:11:19 +0000, Jim Mueller wrote:

> On Mon, 21 Jan 2013 13:15:54 -0500, rickman wrote:
>
>> On 1/21/2013 3:58 AM, raypsi wrote:
>>> Well then, when I send in the files they need to produce the PCB how
>>> will I know it's going to come out right, wait unless the software
>>> shows me a layout of the PCB on my monitor and I just do a print
>>> screen and photoshop it?
>>> A costumer would be not so bright to spend hundreds of USD on a bunch
>>> of PCB's that don't come out right.
>>> PCB123's minimum cost is $109 for 2pcs of 9 square inch board. You
>>> must be from a third world backwater country if you think that is a
>>> high price.
>>
>> You don't get the concept. They lock you into buying boards only from
>> them. Otherwise they would just let you produce Gerber files from the
>> tool.
>>
>> Why not use a good, open source tool like FreePCB? That is what I
>> recommend.
>>
>> Rick
>
> Actually ExpressPCB doesn't completely lock you in. They will make
> Gerber files for you for $60 AFTER you have ordered some boards.

So, a deal that's 99.44% sucky is better than a deal that's 100% sucky?

I dunno, I think I'd rather get some free layout tools and learn to use
them.

--
My liberal friends think I'm a conservative kook.
My conservative friends think I'm a liberal kook.
Why am I not happy that they have found common ground?

Tim Wescott, Communications, Control, Circuits & Software
http://www.wescottdesign.com

From 5816396643159805583
X-Google-Thread: 241b302a50,ef0a155a15e2887f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.19.132 with SMTP id f4mr1823204wie.2.1360478305754;
        Sat, 09 Feb 2013 22:38:25 -0800 (PST)
Path: g1ni2209wig.0!nntp.google.com!feeder1.cambriumusenet.nl!
82.197.223.108.MISMATCH!feeder2.cambriumusenet.nl!feed.tweaknews.nl!
194.109.133.87.MISMATCH!newsfeed.xs4all.nl!newsfeed1.news.xs4all.nl!xs4all!
border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!newsgate.cuhk.edu.hk!

```
news.glorb.com!news.astraweb.com!border6.newsrouter.astraweb.com!not-for-mail
From: Jim Mueller <wrongname@nospam.com>
Subject: Re: PCB123 tutorial ne1?
Newsgroups: rec.radio.amateur.homebrew
References: <c0533393-1c57-4252-9ff4-36b871cb782f@ck1g2000vbb.googlegroups.com>
     <50fc7c58$0$47101$c3e8da3$9b4ff22a@news.astraweb.com>
     <0396d072-1706-41ff-9838-3ec4ebbb87cb@googlegroups.com>
     <kdk0kt$697$2@dont-email.me>
     <50ff38b7$0$52209$c3e8da3$92d0a893@news.astraweb.com>
     <9-ydnTYEWcBunZHMnZ2dnUVZ5gmdnZ2d@giganews.com>
User-Agent: Pan/0.136 (I'm far too busy being delicious; GIT 926a150
     git://git.gnome.org/pan2)
MIME-Version: 1.0
Date: 03 Feb 2013 03:58:47 GMT
Lines: 51
Message-ID: <510de077$0$17022$c3e8da3$76a7c58f@news.astraweb.com>
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 60820a7f.news.astraweb.com
X-Trace: DXC=?1QKX?:HN2eJRZZkg^aP1jL?
0kYOcDh@jTE6nc^O4LMoJ>:V9a2=bgdJA>58nC`28ah1mWJX8RLZmF:@e5`;C]CaHdg@<F@IhkmVfYalm=
1SRd
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

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>
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>>
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>>>> PCB123's minimum cost is $109 for 2pcs of 9 square inch board. You
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>>>> high price.
>>>
>>> You don't get the concept.  They lock you into buying boards only from
>>> them.  Otherwise they would just let you produce Gerber files from the
>>> tool.
>>>
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>>> recommend.
>>>
>>> Rick
>>
>> Actually ExpressPCB doesn't completely lock you in.  They will make
>> Gerber files for you for $60 AFTER you have ordered some boards.
>
```

> So, a deal that's 99.44% sucky is better than a deal that's 100% sucky?
>
> I dunno, I think I'd rather get some free layout tools and learn to use
> them.

Depends on how you are using it. ExpressPCB is great if you need a quick prototype, and, if it works out, you can get Gerbers to go into production. The software is very easy to use; hardly any learning curve at all. It's just not appropriate for hobby projects. I used it when laying out the board myself was quicker than writing instructions for our regular layout person.

They also include a schematic capture program which is equally easy to use and, if all you need is a schematic, is fine. It's made for Windows but I'm using it under Linux with the aid of Wine (a popular Windows emulator).

--
Jim Mueller wrongname@nospam.com

To get my real email address, replace wrongname with dadoheadman.
Then replace nospam with fastmail. Lastly, replace com with us.

```
From -9084523251120849369
X-Google-Thread: a4a23d5f63,e13ed1d77afe8b1f,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.80.34 with SMTP id o2mr799073pax.9.1360469402110;
        Sat, 09 Feb 2013 20:10:02 -0800 (PST)
MIME-Version: 1.0
Path: mj10ni888pbb.1!nntp.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!border3.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!nrc-news.nrc.ca!newsfeed.news.ucla.edu!usenet.stanford.edu!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1358838300@panix.com>
Followup-To: poster
Date: 7 Feb 2013 02:05:01 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 25 Feb 2013 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1360220700@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
```

```
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1360220704 11324 166.84.1.2 (7 Feb 2013 07:05:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 7 Feb 2013 07:05:04 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Bytes: 3785
X-Received-Bytes: 3893

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted twice monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been
recently revived by an active moderation team.  We are currently seeking
suitable information, FAQ, and bulletin articles from the entire
rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our
newsgroup.

We are seeking a replacement maintainer for the following information
bulletin formerly posted to rec.radio.amateur.* (and currently archived
at http://www.faqs.org/faqs/radio/personal-intro/ ):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article       |
is that it does not mention newer amateur radio newsgroups created since      |
it was written, including:                                                    |

 rec.radio.amateur.antenna                                                    |
 rec.radio.amateur.boatanchors                                                |
 rec.radio.amateur.dx                                                         |
 rec.radio.amateur.equipment                                                  |
 rec.radio.amateur.homebrew                                                   |
 rec.radio.amateur.moderated                                                  |
 rec.radio.amateur.space                                                      |

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions.  We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:
```

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

```
From -4603285683000298198
X-Google-Thread: fc2a5,4a0a5de63a75d5ea,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.79.102 with SMTP id i6mr309199wix.4.1360321350500;
        Fri, 08 Feb 2013 03:02:30 -0800 (PST)
MIME-Version: 1.0
Path: bp2ni24183wib.1!nntp.google.com!feeder1.cambriumusenet.nl!
82.197.223.103.MISMATCH!feeder3.cambriumusenet.nl!82.197.223.108.MISMATCH!
feeder2.cambriumusenet.nl!feed.tweaknews.nl!209.197.12.242.MISMATCH!
nx01.iad01.newshosting.com!newshosting.com!216.196.98.142.MISMATCH!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 08 Feb 2013 05:02:29 -0600
From: vu2nan <vu2nan.b5a9338@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Headlight bulb load quickfix
Date: Fri, 8 Feb 2013 10:11:03 +0000
Message-ID: <vu2nan.b5a9338@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
Lines: 13
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
nfzJN93QACtP1UJAsHbHIWjKGpqW0aBuKPCLr9jX5HWOgVbNmh73VsVZ2rwXDa6pWzyuEHsSyJenLGS!
PMXLUPVfph0FynZzL/ETNXg6B8Bf8tr5bar0CHbm3xPxHIiovmZbq3a45b69paehZvTfhnRYil5b!obud
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1067
X-Original-Lines: 7
X-Original-Bytes: 985
```

Here's the link.

http://tinyurl.com/byhtv8z

73,

Nandu.

--
vu2nan

```
From 7460008908513203621
X-Google-Thread: 241b302a50,4a0a5de63a75d5ea,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.130.2 with SMTP id oa2mr250898pbb.8.1360429357583;
        Sat, 09 Feb 2013 09:02:37 -0800 (PST)
MIME-Version: 1.0
Path: oq8ni1054pbb.0!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 09 Feb 2013 11:02:37 -0600
From: vu2nan <vu2nan.b5c3918@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Headlight bulb load quickfix
Date: Sat, 9 Feb 2013 13:32:38 +0000
Message-ID: <vu2nan.b5c3918@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
Lines: 13
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-emdr0NmhxcZyJj3BQo8VS3Oq0oXNsSorrdHjXo8GAQ1nnMqy+8KU8SlGRIF/
GTvgwFctglTszA7g/IH!Kr4BMWOf/
w74d0Y6lSnPivW41MVe77zI5jAgpHnIq+TbxycDaGWqrt7BanRkidIQ9sRx3jjfOMXX!NmsS
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1067
X-Original-Lines: 7
X-Original-Bytes: 985
```

Here's the link.

http://tinyurl.com/byhtv8z

73,

Nandu.

--
vu2nan

```
From -5304965602974222470
X-Google-Thread: 11480d,7c22afdba35eea89,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,7c22afdba35eea89,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,7c22afdba35eea89,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid7221ecd0f7,gid241b302a50,gide721ae2bf6,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.7.228 with SMTP id m4mr570294wia.3.1360911605272;
        Thu, 14 Feb 2013 23:00:05 -0800 (PST)
MIME-Version: 1.0
Path: bp2ni38101wib.1!nntp.google.com!goblin3!goblin.stu.neva.ru!news.ripco.com!
news.glorb.com!border3.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!novia!news-out.readnews.com!transit4.readnews.com!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1359702000@panix.com>
Followup-To: poster
Date: 15 Feb 2013 02:00:03 -0500
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 05 Mar 2013 02:00:02 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1360911602@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1360911604 17331 166.84.1.2 (15 Feb 2013 07:00:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 15 Feb 2013 07:00:04 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
```

Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted twice monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. After a successful trial |
period (90 days, through early July 2009), we decided to adopt this |
change permanently. |

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

From -8599577395031204647
X-Google-Thread: fc2a5,62a9c2ec7eec6f41,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

```
X-Received: by 10.66.161.105 with SMTP id xr9mr1523845pab.3.1360996940715;
        Fri, 15 Feb 2013 22:42:20 -0800 (PST)
MIME-Version: 1.0
X-Received: by 10.50.196.135 with SMTP id im7mr459135igc.1.1360996940443; Fri,
 15 Feb 2013 22:42:20 -0800 (PST)
Path: ov8ni9pbb.1!nntp.google.com!su1no5874987pbb.0!postnews.google.com!
h6g2000pbt.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Fri, 15 Feb 2013 22:42:20 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: h6g2000pbt.googlegroups.com; posting-host=117.199.242.130;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
NNTP-Posting-Host: 117.199.242.130
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:18.0) Gecko/20100101 Firefox/
18.0,gzip(gfe)
Message-ID: <dd903a0d-152d-4eb0-a76f-c71b7f219f98@h6g2000pbt.googlegroups.com>
Subject: INDIAN MALLU HOT VIDEOS AND ALL LIP KISS PHOTOS SE33
From: 9038 <1jghgcgcc@gmail.com>
Injection-Date: Sat, 16 Feb 2013 06:42:20 +0000
Content-Type: text/plain; charset=ISO-8859-1

tollywood actreses hot
http://indianbtphotos.blogspot.in/2013/02/tollywood-actreses.html
tamil actrsese hot
http://indianbtphotos.blogspot.in/2013/02/tamil-actrsese-hot.html
kollywood hot
http://indianbtphotos.blogspot.in/2013/02/kollywood-hot.html
south hot
http://indianbtphotos.blogspot.in/2013/02/south-hot.html
shakeela hot
http://indianbtphotos.blogspot.in/2013/02/shakeela-hot.html
bollywood hot
http://indianbtphotos.blogspot.in/2013/02/bollywood-hot.html




From 7155345789191074609
X-Google-Thread: 108122,4a89cb6583565dbc,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,4a89cb6583565dbc,start
X-Google-NewGroupId: yes
X-Google-Attributes: gidd7f5508063,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
X-Received: by 10.180.106.161 with SMTP id gv1mr1784578wib.4.1361079211561;
        Sat, 16 Feb 2013 21:33:31 -0800 (PST)
Path: g1ni15796wig.0!nntp.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
85.12.40.139.MISMATCH!xlned.com!feeder7.xlned.com!newsfeed.xs4all.nl!
newsfeed3.news.xs4all.nl!xs4all!news.alt.net!news-out.readnews.com!
transit3.readnews.com!panix!rri.panix.com!robomod!not-for-mail
From: rec-radio-info-request@panix.com (AmateurLogic.TV via rec.radio.info Admin)
```

```
Newsgroups:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.
radio.info
Subject: AmateurLogic.TV for Sunday 17 February 2013
Followup-To:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Date: Sun, 17 Feb 2013 00:33:30 EST
Organization: AmateurLogic.TV
Lines: 814
Approved: RRI Admin <rec-radio-info-request@panix.com>
Message-ID: <90e6ba3fcddfb8ad9b04d5e4d792@google.com>
NNTP-Posting-Host: panix6.panix.com
Mime-Version: 1.0
X-Trace: reader1.panix.com 1361079210 5100 166.84.1.6 (17 Feb 2013 05:33:30 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 17 Feb 2013 05:33:30 +0000 (UTC)
X-RRI-Policy: http://www.panix.com/~rram/usenet/rri/index.html
X-RRI-Info-1: Send submissions to             rec-radio-info@panix.com
X-RRI-Info-2: Send technical complaints to    rec-radio-info-request@panix.com
X-RRI-Info-3: Send complaints about policy to rec-radio-info-request@panix.com
X-Comment-1: The moderators do not necessarily agree or disagree with this
article.
X-Comment-2: Moderators do not verify the accuracy of posted information.
X-Comment-3: Acceptance does not convey approval of any external references.
X-Robomod: STUMP, ichudov@algebra.com (Igor Chudov), C++/Perl/Unix Consulting
X-Moderation-1: Hassle-Free commercial hosting of moderation sites available
X-Moderation-2: See http://www.algebra.com/~ichudov/stump
```

```
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
        d=google.com; s=20120113;
        h=mime-version:x-received:sender:precedence:message-id:date:subject
         :from:to:content-type;
        bh=suuiGpNCh0pp/YTzbJ6mRpFvqjhvupCX6k+9V66WUDE=;
        b=C01ofRIqhtS86cdQu/XZnRmWKVVbSJwLBdCdTCvMDU/NWjUfgfuVF2Gm3eJ+KA+D+r
         UdgZwHl4A3dq0c/opm1fwasWhO0zHbf0vlqcCWGDQmixdBg5a+6bPMS6IX3B33fyB4Kx
         IiGoE9amaRi8pttr1sU5dqcwdPLSdVaKInPL8iNmoJbpMk5Rqaty1846rDyK6AZoavyj
         JvqSLaf9b43W+DvMWt3auTrwOHx9CPBAXeFI6JMTVvdev/9zFja8HQbaFweEA5YMAXd1
         Y2upx5+Dv9SOP2fTZrXUxQiikbh/LUhWuBb6e38upw9Wzu8XOF5zrDSC/V1gR/eXAIl/
         m+/g==
```

```
X-StripMime: Non-text section removed by stripmime
Content-Type: text/plain; charset=UTF-8; format=flowed; delsp=yes
```

AmateurLogic.TV

///
AmateurLogic.TV Episode 50

Posted: 14 Feb 2013 02:00 AM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic50_hi.wmv

Peter builds the NS-40 40-Meter QRP Transmitter Kit. George and Tommy visit friends and find new toys at the 2013 Capital City Hamfest. Emile talks about Ham Radio Deluxe and Automating routine tasks. We run into someone you may remember and much more.

1:09:00 of the usual suspects.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic50_hi.wmv

///
AmateurLogic.TV Episode 49

Posted: 14 Jan 2013 02:00 AM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic49_hi.wmv

George builds a highly efficient 7-40 volt Raspberry Pi power regulator. Tommy constructs a Tape Measure Yagi antenna. Peter’s UG-802 Android Dongle. Emile’s Baofeng UV-5RC. Icom’s new IC-7100, ID-51A radios, and more.

1:02:50 of AmateurLogic entertainment.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic49_hi.wmv

///
AmateurLogic.TV Episode 48

Posted: 15 Dec 2012 02:00 AM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic48_hi.wmv

George shows us how to setup an HF Radio Station. Tommy builds a Foxhunt beacon with the Arduino. Peter has a Raspberry Pi present for you. Emile talks about hi tech cheap stuff.

We give away the Complete HF Station featuring great gear from Icom, MFJ, Wireman & Heil Sound.

Santa Tracking, The end of the world and more…

59:51 of holiday entertainment.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic48_hi.wmv

///
AmateurLogic.TV Episode 47

Posted: 15 Nov 2012 02:00 AM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic47_hi.wmv

George visits the MFJ Metal Show for some heavy metal fun. Tommy introduces us to the Arduino microcontroller. Peter builds a 1/4 wave garage mounted vertical. Emile talks about calibrating his HF rig with WWV. And of course the usual

fun and entertainment.

This is the last show before we give away the Complete HF Radio Station featuring an Icom IC-7200 and all the necessary

accessories. Get your entry in now.

01:03:15 of AmateurLogic entertainment.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic47_hi.wmv

//
AmateurLogic.TV Episode 36

Posted: 06 Feb 2012 02:00 AM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic36_hi.wmv

We visit the Capital City Hamfest in Jackson, MS and talk with Tom Samacicio KB4HQA of HQARadio.com, Don Wilbanks AE5DW of Amateur Radio Newsline, and Ward Silver N0AX of the ARRL. Peter drops in on the Melborne Mini Maker Faire for some fun.

1:02:29 of Hamfest FunÖ
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic36_hi.wmv

//
AmateurLogic.TV Episode 32

Posted: 10 Aug 2011 10:00 AM PDT
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic32_hi.wmv

Titans In Space. We visit the Olde Town Middle School near space balloon launch and track it from the shack using several analog and digital modes. Peter finds use for his chinese tablet as a teleprompter. And your viewer email and comments.

Itís 1:03:31 of AmateurLogic excitement.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic32_hi.wmv

//
AmateurLogic.TV Episode 31

Posted: 29 Jun 2011 10:00 AM PDT
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic31_hi.wmv

Field Day In The Wilderness. Welcome to the first AmateurLogic.TV Field Day Extravaganza. Weíve shown you what Field Day is before by visiting the Jackson Amateur Radio Clubís events. This year we decided to go it alone. The crew (along with a few friends) set off for the woods to get completely off the grid. Jim also wanted to do some astronomy photography and this location offered lower light pollution.

Join us as we setup, operate, and campout to learn what worked and what didnít. Youíre bound to enjoy this AmateurLogic take on Field Day.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic31_hi.wmv

///
AmateurLogic.TV Episode 30

Posted: 22 Feb 2011 09:00 AM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic30_hi.wmv

We visit the 2011 Capital City Hamfest in Jackson, MS. We talked with old and new friends and got a look at the new Omega-Tec low profile antennas. Plus your viewer email and facebook post.

31.57 of Hamfest fun.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic30_hi.wmv

///
AmateurLogic.TV Episode 29

Posted: 26 Jan 2011 09:00 AM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic29_hi.wmv

In this long awaited episode we show you how to add an IF Output to the Kenwood TS-2000 for use with a SDR. Peter demonstrates his Puxing 777 Handi Talkie. And Tommy shows us some Online Receivers. Plus your viewer email and facebook post.

45:58 of Ham Radio fun.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic29_hi.wmv

///
AmateurLogic.TV Episode 28

Posted: 19 May 2010 10:00 AM PDT

http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic28_hi.wmv

In this episode Tommy demonstrates the great EchoLink for iPhone application. Peter shows us his shortwave QSL collection. Our guest Charlie, KY5U teaches us about Streaming Video and CamRadio.Net. And George talks about I.F. (Intermediate Frequency) in radio receivers and how it can relate to Software Defined Radio use. Plus plenty of viewer email and Facebook comments.

Its 56:30 of very informative amateur radio content.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic28_hi.wmv

//
AmateurLogic.TV Episode 27

Posted: 22 Feb 2010 09:00 AM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic27_hi.wmv

Sit back and enjoy the Hamfest as we visit with new and old friends.
Its a review the 2010 Capital City Hamfest in Jackson, MS and the CCARC Wyong Field Day (an Australian hamfest). Both of these are large events that continue to grow each year.
There were huge amplifiers, new gear, old gear and lots of fun for all. We also learn about the CamRadio Network, a new Dick Tracy device and much more. And if thats not enough, Jim is back in this episode.

Itís 56:00 of Amateur Radio entertainment you donít want to miss.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic27_hi.wmv

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AmateurLogic.TV Episode 26

Posted: 02 Feb 2010 09:00 AM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic26_hi.wmv

Kenwood TS-2000 as an SDR - In this first episode of the year, George shows us how to use the Kenwood TS-2000 as a Software Defined Radio with Winrad. Peter experiments with the WSPR Weak Signal mode. And Tommy teaches us how to easily create Time Lapse Videos. Plus plenty of viewer email. Its 44:04 of AmateurLogic fun.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic26_hi.wmv

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AmateurLogic.TV Episode 25

Posted: 13 Dec 2009 09:00 AM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic25_hi.wmv

Peterís Excellent Space Adventure ñ Peter accepts a challenge from the UK, builds a packet station, and contacts the ISS. Tommy explores EchoMac, EchoLink for the Macintosh. George shows a better way to install PL-259 connectors and then tests the cable for faults and length with the MFJ-259B Antenna Analyzer. And as always, your viewer email and holiday greetings. 58:16
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic25_hi.wmv

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AmateurLogic.TV Episode 24

Posted: 01 Jul 2009 10:00 AM PDT
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic24_hi.wmv

Spend the day with Jackson Amateur Radio Club and see how they approached Field Day 2009 in the heat of Summer. Meanwhile itís Winter for Peter in Australia with a very interesting demonstration of early Mechanical Television. Plus viewer email and lots of fun. 52:13
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic24_hi.wmv

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AmateurLogic.TV Episode 23

Posted: 11 Feb 2009 09:00 AM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic23_hi.wmv

Back from a long summer vacation, George and Tommy visit the Capitol City Hamfest and run into an old friend. Peter shows us how to create a warm spot. Plus plenty of Amateur Radio news and Viewer email.

48:54 of AmateurLogic goodness.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic23_hi.wmv

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AmateurLogic.TV Episode 22

Posted: 04 Oct 2008 10:00 AM PDT
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic22_hi.wmv

Episode 22 features part two of a tour of the Australian Armyís Signals Museum. Vintage communications equipment from WW1 - the Vietnam era. Plus the answer to the question posed in part one concerning to use of the odd cw device with two keys. 17 minutes of old radios and war stories.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic22_hi.wmv

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AmateurLogic.TV Episode 21

Posted: 29 Jun 2008 10:00 AM PDT
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic21_hi.wmv

Episode 21 features part one of a tour of the very interesting Australian Armyís Signals Museum. Tommy gives us a quick look at editing video. George introduces the MFJ-259B Antenna Analyzer and some of itís capabilities. And Peter attends the Wireless Institute of Australiaís annual general meeting in Broken Hill where he also visits the ìSchool of the Airî, the ìFlying Doctorsî and more. Itís 1 hour and 10 minutes of Ham Radio entertainment.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic21_hi.wmv

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AmateurLogic.TV Episode 20

Posted: 30 Apr 2008 10:00 AM PDT
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic20_hi.wmv

George, Tommy, and Peter are back with the long awaited episode 20. Tour the Hy-Gain Factory and see how antennas and rotors are built. Peter tells us all about those mysterious ëNumbers Stationsí on short wave. Plus an update on what your hosts have been up to lately, viewer email and timely topics.
Itís 41:42 of Ham Radio Fun.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic20_hi.wmv

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AmateurLogic.TV Episode 19

Posted: 10 Feb 2008 09:00 AM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic19_hi.wmv

George and Tommy attend one of the best hamfests in the South. The 2008 Capital City Hamfest in Jackson, MS. Join us as we visit with familiar faces, explore boat anchors, buy gear and more. Plus weíve got coverage of the Introduction to Ham Radio, Antenna Theory and QRP Kit Building forums.

Itís 44:49 of Hamfest fun.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic19_hi.wmv

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AmateurLogic.TV Episode 18

Posted: 16 Dec 2007 09:00 AM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic18_hi.wmv

Ameritron builds the most popular RF linear amplifiers on the market today. Come with us behind the scenes to see whatís inside them and how they are built. Itís the Ameritron Amplifier factory tour, where you will learn all about these tube type and solid state amplifiers.

We hope you enjoy this 28:30 of Ham radio fun for your Christmas holiday viewing.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic18_hi.wmv

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AmateurLogic.TV Episode 17

Posted: 20 Nov 2007 09:00 AM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic17_hi.wmv

Ever wonder how your electronic equipment is built.

Join us this month for a factory tour of MFJ Enterprises with Richard Stubbs. Very interestingÖ You donít want to miss it!

Peter unvails his Amateur Television station and demonstrates ATV in Melbourne.

And Tommy shows us a new web site that makes finding repeaters a breeze. Google maps display the locations for easy viewing.

Itís 57:43 of Ham radio fun just in time for Thanksgiving.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/

amlogic17_hi.wmv

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AmateurLogic.TV Episode 16

Posted: 12 Oct 2007 10:00 AM PDT
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic16_hi.wmv

Itís another fun packed episode.

George has a very interesting interview with Martin F. Jue, President and founder of MFJ Enterprises.

Peter demonstrates his WokTenna from the mountain tops downunder.

Tommy talks about the automatic tuning Yaesu ATAS-120 mobile antenna.

Jim has another Network Tools segment featuring the powerful Netstat.

And George demonstrates the Softrock Software Defined Radio using the M0KGK SDR decoder software.

Itís 55:20 of AmateurLogic you donít want to miss.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic16_hi.wmv

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AmateurLogic.TV Episode 15

Posted: 03 Sep 2007 10:00 AM PDT
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic15_hi.wmv

In this episode, its back to the bench to build the Softrock Software Defined Radio. Some research is in order as many of the parts are surface mount components. Watch how George did it and some of the pitfalls involved.

Jim introduces us to the International Beacon Project. Learn how you can take advantage of this very useful tool for DXers.

Tommy demonstrates and explains all about the amazing Ham Radio Deluxe.
Itís the leading amateur radio software that we use regularly. Youíll see it does a lot more than just control your ham rig.

And Peter is back with a mountain top review of the Degen DE-1103 shortwave receiver. Although itís quite interesting to operate, youíll agree itís a real value for the money.

Itís 44:30 of amateur radio related entertainment we know youíll enjoy.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic15_hi.wmv

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AmateurLogic.TV Episode 14

Posted: 21 Jul 2007 10:00 AM PDT
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic14_hi.wmv

Itís the Field Day Special! Join us as we visit with the Jackson Amateur Radio Club and learn all about Field Day.

Plus weíve got two unique AmateurLogic spins on Field DayÖ

Jimís poolside station set up is educational and entertaining.

Georgeís station uses a unique power generator many own, but donít think of.

Peter visits the WIA (Wireless Institute of Australia) to discuss the new Foundation class license thatís adding significant numbers to the hobby downunder.

Itís 59:31 of prime AmateurLogic laughs, information and entertainment you donít want to miss.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic14_hi.wmv

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AmateurLogic.TV Episode 13

Posted: 07 Jun 2007 10:00 AM PDT
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic13_hi.wmv

At last, the long awaited Episode 13!

New gear, old junk, and interesting charactersÖ Tommy and Jim visit the worlds largest amateur radio gathering and bring us back some great footage from the 2007 Dayton Hamvention.

In this episode we also introduce Peter from downunder, with hamfest coverage from the Moorabbin and District Radio Club Hamfest in Melbourne, Australia.

And our friend Foxx from the BSOD show stops by with a money saving tip on building your own Homebrew Crimpers.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic13_hi.wmv

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AmateurLogic.TV Episode 12

Posted: 12 Jan 2007 09:00 AM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic12_hi.wmv

Jim discusses two Network Tools that everyone already has. George digs into the junk box and comes up with a 9-volt battery clip tip. Tommy talks about using the Burn and Dodge tools to get better detail out of your photos. This months spotlight is on the Basic Stamp Microcontroller. We tell you what it is, and show you how to use it with a simple project. Plus your viewer mail and other interesting bits. Its 55 minutes of Geek entertainment thats sure to get the electrons flowing!
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic12_hi.wmv

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AmateurLogic.TV Episode 11

Posted: 09 Dec 2006 09:00 AM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic11_hi.wmv

Tommy brings us some Cold Weather Photo Tips. Jim shows us a unique method for salvaging electronic components from PC boards. And George demonstrates the electric Dixie Cups and String. A quick and dirty intercom you can build from household items. Plus we cover some viewer mail in this episode. The show runs about 42 minutes.
This posting includes a media file:

http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic11_hi.wmv

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AmateurLogic.TV Episode 10

Posted: 31 Oct 2006 09:00 AM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic10_hi.wmv

The Active Cantenna is Back! But this time we added a Direct TV Satellite Dish to see what wifi improvements if any it makes. Tommy brings us some cool night time photography tricks (or treats). Jim finishes the Pudding Cup Capacitor in this episode. And George found a neat Free PDF creation tool you just may want. The show runs about 43 minutes.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic10_hi.wmv

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AmateurLogic.TV Episode 9

Posted: 06 Oct 2006 10:00 AM PDT
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic09_hi.wmv

The guys are back with more tech and entertainment for the all purpose geek. Jim talks about the OSI and Packet Sniffing with Ethereal. George teaches us how to solder like a pro. And Tommys Camera Raw Files demonstrates some neat tricks you can do. The show runs about 48 minutes.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic09_hi.wmv

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AmateurLogic.TV Episode 8

Posted: 01 Sep 2006 10:00 AM PDT
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic08_hi.wmv

It's been a great summer and now we're back to kick off season 2. In this episode Tommy brings us another great photo tip. This one's about using your camera's RAW mode.

Jim shows us part one of his recent capacitor building adventure.

And George demonstrates the weird ways that some devices receive their electrical power.

The show runs about 54 minutes.

This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic08_hi.wmv

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AmateurLogic.TV Episode 7

Posted: 04 May 2006 10:00 AM PDT
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic07_hi.wmv

It's been a busy couple of months for us all. But as promised, here's episode 7.

George introduces us to a voice over IP technology for amateur radio named EchoLink.

Jim's back with another Network Tools segment on NMAP.

Plus we've got a little footage from the annual National Association of Broadcasters convention in Las Vegas.

This show is the season wrap-up episode as well. We're taking off for the summer and hope to see you all again this fallÖ

The show runs about 36 minutes.

This posting includes a media file:

http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic07_hi.wmv

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AmateurLogic.TV Episode 6

Posted: 31 Mar 2006 08:11 PM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic06_hi.wmv

We're back with the first episode from our new set.

This month Jim runs a few benchmarks to determine if the Apple MacIntel is ready for prime time.

IPTV show producers get ready... George hacks the Radio Shack Lavalier Microphone (#33-3013) to add phantom power and better performance.

Exposure is one of the most misunderstood areas of photograph. Tommy's back with another Photo Tip that you won't want to miss.

Plus we answer your viewer mail and tech questions.

The show runs about 34 minutes.

This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic06_hi.wmv

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AmateurLogic.TV Episode 5

Posted: 28 Feb 2006 12:02 AM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic05_hi.wmv

If you've ever wondered what a Hamfest is, then this episode is for you. We visit Jackson Amateur Radio Club's 2006 Capital City Hamfest'.

We've got an ARRL net being called, highlights from the Skywarn Forum, ARRL Katrina Review, an amateur radio Satellite Demonstration and lots more.

Plus Tommy's back with another PhotoTip' and Jim introduces a new segment on Network Tools'.

For those interested in learning more, there are also full length versions of the forums available on the downloads page as well.

To learn more about Amateur Radio please visit www.arrl.org

We hope you enjoy AmateurLogic.TV Episode 5. We'll be back again next month with a regular show.

The show runs about 39 minutes.

This posting includes a media file:

http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic05_hi.wmv

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AmateurLogic.TV Episode 4

Posted: 23 Jan 2006 04:40 PM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic04_hi.wmv

We're back with the Active Cantenna to finally do some range testing. Thanks to Amateur Radio and a couple of video cameras, we put you right in the action. Ride Shotgun with Jim as we test WiFi's advertised 300' range. We were pleasantly surprised....

There are more great web sites under review in Website Roundup'.

Tommy performs a little Digital Photography Magic by producing a 10 Mega Pixel image from a 6 Mega Pixel camera!

PLUS, there's a surprise visit from some other popular IPTV Show hosts.

The show runs about 39 minutes.

This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic04_hi.wmv

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AmateurLogic.TV Episode 3

Posted: 20 Dec 2005 11:57 AM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic03_hi_.wmv

No interviews this time... We build a high performance Active Cantenna' from parts that you should be able to find locally. The big advantage is that you can have a very long cable to the cantenna without any signal loss, which is not possible on other designs.

The construction is shown in enough detail that one could follow along and build their own.

Jim is back with another Website Roundup' segment.

And Tommy introduces Photo Tips'. This episode's topic is White Balance.

The show runs about 46 minutes.

This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic03_hi_.wmv

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AmateurLogic.TV Episode 2

Posted: 17 Nov 2005 07:56 PM PST
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic02_hi.wmv

We visit Inner City Broadcasting's Radio Studios in Jackson and speak with Roger Lamb, Director of Technical Operations.

Plus we introduce two new segments to the show:

Jim hosts Website Roundup', where we discuss interesting sites.

From The Bench' with George hacks a Firewire cable to determine the correct wiring diagram for DV.

The entire show runs 57 minutes and change.

This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic02_hi.wmv

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AmateurLogic.TV Episode 1

Posted: 12 Oct 2005 01:54 PM PDT
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/AMLogic01_DV_Hi.wmv

We visit a commercial WiFi Site and look inside to see what makes it work.

Plus, there's a short segment on Emergency Power.

This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/AMLogic01_DV_Hi.wmv

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X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Fri, 08 Mar 2013 10:32:35 -0600
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Fri, 08 Mar 2013 08:32:45 -0800
Message-ID: <b94kj81askkv1io9k5sci9oqbdnrbip31l@4ax.com>
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X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
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X-Original-Bytes: 2142
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
```

On Thu, 07 Mar 2013 11:39:45 -0800, Jeff Liebermann <jeffl@cruzio.com>
wrote:

>Fortunately, WWVB is on-off
>keying with no amplitude component, so there's no incentive to add an
>AGC controlled input amplifier in order to maximize the A/D converters
>dynamic range.

Oops. WWVB does have an amplitude component and is not quite on-off keying (OOK). There's a -17dB drop in RF signal level at the beginning of each 1 second marker pulse. It was -10dB prior to 2005.
<http://en.wikipedia.org/wiki/WWVB#Modulation_depth>

```
--
Jeff Liebermann     jeffl@cruzio.com
150 Felker St #D    http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann     AE6KS    831-336-2558
```

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for-mail
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From: rickman <gnuarm@gmail.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Fri, 08 Mar 2013 13:44:36 -0500
Organization: A noiseless patient Spider
Lines: 117
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     posting-account="U2FsdGVkX1/vXn8C5mX33ZP9xpWCYzKH"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/12.0.1
In-Reply-To: <e4qhj85s8tuj4ja3jrnfe0ldss62q6pfbu@4ax.com>
Cancel-Lock: sha1:z7HtKMpEz47omKTupQYLDE3kPRI=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 3/7/2013 2:39 PM, Jeff Liebermann wrote:
> On Thu, 07 Mar 2013 13:11:03 -0500, rickman<gnuarm@gmail.com> wrote:
>
>> I understand. But this is intended to be *very* low power and I haven't
>> found an amp I can use that is in the low double digits uW power
>> consumption range. I plan to use no amp and go straight to digital.
>
> I don't think that's possible. Unless your input A/D converter can
> operate in the microvolt region, it's going to have a difficult time
> dealing with the low signal levels. Fortunately, WWVB is on-off
> keying with no amplitude component, so there's no incentive to add an
> AGC controlled input amplifier in order to maximize the A/D converters
> dynamic range. Still, you need to work with something more than a few
> bits above the noise level. Incidentally, after midnight, you WWVB
> delivers about 100 uV/meter or more to continental US.
> <http://tf.nist.gov/tf-cgi/wwvbmonitor_e.cgi>   (Java required)
> I've seen it strong enough that I can see the waveform on an
> oscilloscope after a 60Khz passive filter.

Yes, I have done my homework on the WWVB signal. I am at the fringe of
the 100 uV/m contour. I would very much like to see the signal on an
oscilloscope when I test this. They have a receiver not far from here
in Gaithersburg, MD and the signal is often strong during the day. So
much so that I don't follow why they say there is this day/night signal
strength fluctuation. It looks much more random to me.

The WWVB signal is not truly on-off keying. I believe they use a 10 dB modulation factor for the AM signal. This is close to on-off I agree. But they also phase modulate the signal and I will be demodulating both to see which one works best in my design.

The ADC in my design is truly one bit. It is an LVDS input on an FPGA. I looked at delta-sigma (or is it sigma-delta? ;) conversion and got code from the chip vendor for a simplistic implementation. I don't think I have the power budget for that and am using a much simpler 1 bit ADC at 4x the carrier rate. The bit stream is multiplied by quadrature carriers at 60 kHz and each stream summed for 1/30 of a second to implement what can be considered a DFT bin, a decimated FIR filter or a decimated down conversion; take your pick, they are all mathematically the same in this case because the sampling is synchronous to the carrier (or very close to synchronous).

What comes out the other end of this processing gains nearly 40 dB in SNR. My simulations show a recoverable signal when it is more than 20 dB below the noise.

Of course, I have not tested this yet on a real signal. I want to run some tests on the antenna and coupling transformer to verify the simulation. Then I will start working with the FPGA to see if I can make the LVDS input do what I want. I have ideas on how to bend digital circuits to do my bidding. This LVDS input is why I want as large a signal as possible from the antenna. With the high impedance input on the chip I should be able to boost the signal pretty well with just passive devices and signal processing.

The loop antenna is rather large. I would like to end up with something smaller. Once I get this working with a shielded loop antenna I will check out the ferrite core antennas. My understanding is that they don't produce as much signal.

> As for bandwidth, the code is sent at 1 baud (1 bit/sec) which
> produces about a 2Hz occupied bandwidth. Therefore, the maximum Q of
> the antenna would need to be:
> 60Khz/ 2Hz = 30,000
> before the antenna bandwidth becomes a problem.

I'm not sure how you came up with 2 Hz for the bandwidth. In this case the bandwidth is not just twice the bit rate. I believe the stated "system" bandwidth is around 5 Hz (from a 1995 paper prior to addition of the phase modulation). Regardless, I am sampling at 30 Hz and if I expect to see significant changes in phase or amplitude within one sample time, I need an appropriate bandwidth.

Even so, that is not the limiting factor. The limiting factor is the difficulty in holding tune with drift in passive component values. The Q can be raised by increasing the turns ratio on the transformer, but it becomes so sensitive to the parasitic capacitance that the sensitivity drops 10 dB with a 1 pF change.

> Incidentally, while Googling away merrily, I found this on SPICE
> models for a loop antenna. It's not quite in your xformer format, but
> it might be useful:
> <http://sidstation.loudet.org/antenna-theory-en.xhtml>
> I won't pretend to understand what the author is doing until I read it
> more carefully.

Thanks. I will take a look at that.

> Incidentally, I used a WWVB code simulator driving a signal generator
> to test my receiver:
> <http://www.leapsecond.com/notes/wwvb2.htm>

I will be needing a time code simulator. I designed a commercial product that works with the IRIG-B time code which is similar. The functionality is not hard, it is just a matter of generating the data, encoding it into the modulation pattern, then impressing the carrier with the modulation. Working in an FPGA this sort of stuff is easy.

The trouble is if you make the same mistake in both the generator and receiver they work just fine in simulation, but not with other equipment. lol

I'll take a look at this link.

> If you're seriously into this, I suggest asking questions on the
> time-nuts mailing list:
> <https://www.febo.com/mailman/listinfo/time-nuts>

I might look into that. Certainly it can't hurt to get more input.

--

Rick

```
From -7282572182668571562
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.234.202 with SMTP id ug10mr1966677pbc.6.1362817999374;
        Sat, 09 Mar 2013 00:33:19 -0800 (PST)
Path: q9ni6347pba.1!nntp.google.com!npeer03.iad.highwinds-media.com!feed-
me.highwinds-media.com!cyclone03.ams2.highwinds-media.com!news.highwinds-
media.com!voer-me.highwinds-media.com!news.unit0.net!eternal-september.org!
feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups:
```

sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Thu, 07 Mar 2013 21:28:24 -0500
Organization: A noiseless patient Spider
Lines: 100
Message-ID: <khdh9v$2bb$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me> <kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-email.me> <kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me> <kh8pgv$nob$1@dont-email.me> <kha9e1$9qt$1@dont-email.me> <khb3cn$d6m$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Fri, 8 Mar 2013 20:22:24 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-host="77dcc5488ac2f0819315036b551cc948";
logging-data="2411"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX1/tApd381kiYLrLe48MtLRo"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/12.0.1
In-Reply-To: <khb3cn$d6m$1@dont-email.me>
Cancel-Lock: sha1:pSZWNQlCcAPmIQy6HPQr+obStyA=
X-Received-Bytes: 6071
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 3/7/2013 5:14 PM, Tim Williams wrote:
> "rickman"<gnuarm@gmail.com> wrote in message
> news:kha9e1$9qt$1@dont-email.me...
>>> High Q isn't the goal, high radiation resistance is -- the bigger the
>>> loop, the better it couples with free space, until it's a wave length
>>> around.
>>
>> I'm not clear on why you keep referring to radiation resistance for a
>> receiving antenna. Does this result in a larger received signal? I am
>> concerned with maximizing the voltage at the input to the receiver.
>
> You're also not concerned about that -- you're concerned about maximizing
> SNR at the receiver.

SNR would be good, but I am concerned with maximizing the signal actually.

> A Q of a million will get you gobs of "gain", but if it doesn't couple
> into free space, it's only the thermal noise of the loss generating that
> signal.

I think you aren't reading what I am writing. I said I wanted a Q over
100, not 1 million. I don't get why you keep talking in hyperbole.
What you are describing is not even a tradeoff between signal strength
and SNR. If there is no coupling, there is no signal.

> An antenna with high (expressed as ESR) radiation resistance might have a

> modest Q, but gives far better SNR because it couples to free space.

I have not found anything to indicate this produces a better receive antenna. I have a formula for the effective height of a loop antenna which is what determines the received signal strength at the antenna. It does not calculate the radiation resistance, it uses the coil parameters and the wire resistance. Is that a wrong formula?

> Raw volts don't matter, you can always throw more amplifiers at it (as
> long as they don't corrupt the SNR also!).

Maybe you didn't read my other posts. I am not using an amplifier. I am running the antenna and coupler output directly into a digital input.

>> Yes, a higher stepup ratio gets larger signal up to a point. That point
>> is determined by the parasitic capacitance of the receiver input. That
>> capacitance is reflected back through the transformer and affects the
>> antenna tuning. In my simulations it creates a filter with two
>> resonances.
>
> Oooh, capacitance! I like capacitance. Capacitance is easy to
> cancel...inductors are good at that. :)
>
> What's a nearby inductor working against that capacitance? The current
> transformer in your simulation, if its inductance can be controlled, would
> be an excellent candidate. The circuit effectively becomes a double tuned
> interstage transformer, like,
>
> http://www.jrmagnetics.com/rf/doubtune/doubccl_c.php
> This is two resonators coupled with a cap, but any coupling method will
> do. Capacitive, magnetic (putting the coils end-to-end) or
> electromagnetic (coils side-by-side) coupling does equally well; normal
> arrangements have them all in phase, so in practice, unshielded coils will
> need smaller coupling capacitance than designed, etc.
>
> If you line up that 10p resonance with the operating frequency, you should
> get gobs more gain. In fact, because the reactances cancel, the driven
> impedance will be much higher than you were expecting, and so will the
> gain. The CT might go from, say, 1:8 up to, who knows, 1:20? 1:100?
>
> The bandwidth of that coupling (not necessarily of the antenna itself, so
> they should be similar bandwidths) is determined by the coupling
> coefficient (in the coupled-inductors case, simply k) and Q of the
> components.
>
> If your receiver datasheet specifies an equivalent input circuit, you
> might be able to estimate the equivalent loss and optimize gain.

The receiver input is high impedance, approximately 10 MOhms with a low capacitance between the differential inputs of not more than 10 pF.

Your description of what is happening is very terse and full of shortened terms that I don't understand. What do you mean "line up that 10p resonance with the operating frequency"? I assume you are referring to the 10 pF input capacitance. How does this get "lined up" with anything?

When you talk about reactances canceling, that sounds a lot like a tuned circuit at resonance. That is what I *am* doing and where this thread started. One problem with that is the lack of precision or stability of the parasitic capacitance. Any idea how to deal with that?

Have you looked at the simulation data I had posted? I think you are describing exactly the circuit we are simulating which I believe is an accurate representation of the circuit I plan to build. Is that not correct?

--

Rick

```
From 7090922008258012083
X-Google-Thread: 112d1e,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes:
gid1617473143,gid4baf9708d4,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.24.132 with SMTP id u4mr450020wif.6.1362818009111;
        Sat, 09 Mar 2013 00:33:29 -0800 (PST)
X-FeedAbuse: http://nntpfeed.proxad.net/abuse.pl feeded by 88.191.116.97
Path: bp2ni81439wib.1!nntp.google.com!proxad.net!feeder1-2.proxad.net!
nntpfeed.proxad.net!dedibox.gegeweb.org!gegeweb.eu!gegeweb.org!eternal-
september.org!feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-
for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Fri, 08 Mar 2013 16:18:18 -0500
Organization: A noiseless patient Spider
Lines: 62
Message-ID: <khdkgg$lbg$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
<kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-
email.me> <kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me>
<kh8pgv$nob$1@dont-email.me> <kha9e1$9qt$1@dont-email.me>
<5139584d$0$54952$c3e8da3$e408f015@news.astraweb.com>
Mime-Version: 1.0
Injection-Date: Fri, 8 Mar 2013 21:17:04 +0000 (UTC)
```

```
Injection-Info: mx05.eternal-september.org; posting-
host="77dcc5488ac2f0819315036b551cc948";
     logging-data="21872"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+0WBnkUnNVEPdBVxFeC1S4"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
In-Reply-To: <5139584d$0$54952$c3e8da3$e408f015@news.astraweb.com>
Cancel-Lock: sha1:ng6JwGYmlNkaI0WI0KJ4P3lEUHY=
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit

On 3/7/2013 10:17 PM, Jim Mueller wrote:
> On Thu, 07 Mar 2013 09:50:11 -0500, rickman wrote:
>
>> On 3/6/2013 8:13 PM, Tim Williams wrote:
>>> "rickman"<gnuarm@gmail.com>   wrote in message
>
> <snip>
>>
>>
>>>> I'm not familiar with the concept of voltage transformer vs. current
>>>> transformer.  How do you mean that?
>>>
>>> Current transformer measures current (its winding is in series),
>>> potential transformer measures voltage (in parallel).
>>
>> Series and parallel with what?  I'm not following this.
>>
> <snip>
>
> An electric circuit consists of a source of power, a load, and something
> (like wires) connecting them.  Transformers can be used if the source is
> providing alternating current.  A voltage transformer is connected in
> parallel with the load so that the source, the transformer, and the load
> all see the same voltage.  It can also be used to match a load to a
> source.  A common example of a voltage transformer is the power
> transformer in a piece of equipment that changes the AC line voltage to
> whatever other voltages are required by the equipment.
>
> A current transformer, on the other hand, is connected in series with the
> load so that the source, load, and transformer all have the same current
> flowing through them.  The most common use of a current transformer is to
> measure the current flowing into a load.  A clamp-on ammeter is a common
> example.
>
> Historical examples of voltage and current transformers are the "picture
> tube brighteners" that were commonly used in TV sets to prolong the
> useful life of the CRT.  There were two types, parallel and series.  The
> parallel types were used in transformer operated TVs and consisted of a
> step-up transformer to raise the heater voltage of the CRT above normal
> to increase emission.  The series type was used in sets with the tube
> heaters in series and consisted of a step-down transformer that raised
> the heater current above normal.  Of course, raising either the voltage
```

> or the current also raised the other. These were, respectively, voltage
> and current transformers.
>
> A loop antenna is a distributed source with the voltage being generated
> along the length of the wire and also having a magnetic field so that it
> can be used as part of a transformer. This blurs the distinction between
> a current and voltage transformer.

Is this a current transformer or a voltage transformer?

```
     .--------.  .--------.
     |        |  |        |
     |        C||C        >
    VAC       C||C        >  Load
     |        C||C        >
     |        |  |        |
     `--------'  `--------'
```

--

Rick

```
From 9058915738461482797
X-Google-Thread: 112d1e,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes:
gid1617473143,gid4baf9708d4,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.19.132 with SMTP id f4mr454661wie.2.1362818009584;
        Sat, 09 Mar 2013 00:33:29 -0800 (PST)
MIME-Version: 1.0
Path: bp2ni81439wib.1!nntp.google.com!proxad.net!feeder1-2.proxad.net!
feeder.erje.net!eu.feeder.erje.net!news.albasani.net!eternal-september.org!
feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-for-mail
From: "Tim Williams" <tmoranwms@charter.net>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Fri, 8 Mar 2013 15:20:39 -0600
Organization: A noiseless patient Spider
Lines: 143
Message-ID: <khdkkd$m34$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
<kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-
email.me> <kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me>
<kh8pgv$nob$1@dont-email.me> <kha9e1$9qt$1@dont-email.me> <khb3cn$d6m$1@dont-
email.me> <khdh9v$2bb$1@dont-email.me>
Injection-Date: Fri, 8 Mar 2013 21:19:09 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-
```

```
host="c5496f60c1e2fe7da0e7ee177c343043";
     logging-data="22628"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18uTsQAY+COSkFSVXLS56of"
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:+jCaDOQ0KizK/67BlIVwrmnizsA=
X-Priority: 3
X-MSMail-Priority: Normal
```

"rickman" <gnuarm@gmail.com> wrote in message
news:khdh9v$2bb$1@dont-email.me...

>> A Q of a million will get you gobs of "gain", but if it doesn't couple
>> into free space, it's only the thermal noise of the loss generating
>> that
>> signal.
>
> I think you aren't reading what I am writing. I said I wanted a Q over
> 100, not 1 million. I don't get why you keep talking in hyperbole. What
> you are describing is not even a tradeoff between signal strength and
> SNR. If there is no coupling, there is no signal.

It may sound like hyperbole, but it's mathematically sound. The midpoint theorem, for example, guarantees that, between two points, you must've hit some point inbetween, somewhere, as long as the function is continuous. More usefully, functions arising in electronics are often one-to-one, so it's not only true that you are guaranteed midpoints, but you'll find them in order, too.

If you aren't looking at the extreme cases, you aren't doing your job. Whatever's left inbetween can simply be interpolated!

The point here being, an antenna which doesn't couple into free space obviously has a crappy SNR. The signal level can be anything, it doesn't matter. The signal need not be small, because internal losses generate thermal noise. With sufficient Q, you can push that thermal noise up to your receiver threshold (which you said is an ADC) and detect signal. It'll be bandlimited, ~60kHz noise, a useless signal, but present nonetheless.

In general, antennas which do couple strongly to free space have low Qs. A 1/2 wave resonant dipole has a Q of only 1 or 2, so bothering to call it resonant is actually kind of weak. This is similarly true for a large loop, which of course would be highly impractical here. So there must be some middle case where SNR is reasonably unaffected, which will be the best choice antenna.

Since atmospheric noise dominates, the antenna can stand to be pretty small.

>> Raw volts don't matter, you can always throw more amplifiers at it (as
>> long as they don't corrupt the SNR also!).
>

> Maybe you didn't read my other posts. I am not using an amplifier. I
> am running the antenna and coupler output directly into a digital input.

You hadn't mentioned that before...

> The receiver input is high impedance, approximately 10 MOhms with a low
> capacitance between the differential inputs of not more than 10 pF.

Any ESR? Example, the ATmega series 10 bit ADC specifies, I think, around 10pF + 10k ESR (somewhat depending on how many mux switches it's going through to get there).

> Your description of what is happening is very terse and full of
> shortened terms that I don't understand.

I could write a book on the subject to explore it in detail, but there are many available already, and there are too many holes in my knowledge to really be worth it, plus this is Usenet, you get what you pay for. I was hoping you'd Google in the blanks.

> What do you mean "line up that
> 10p resonance with the operating frequency"? I assume you are referring
> to the 10 pF input capacitance. How does this get "lined up" with
> anything?

There's yet another theorem in networks that has to do with matching.

A resonant tank's impedance varies wildly with frequency. But it will always be resistive at resonance. If you connect this to another network, which has a resistive input impedance at the same frequency, you don't care what the L and C are, it will simply work -- old fashioned resistor divider action!

You *do* have to worry about L and C and reactance and bandwidth to solve for the frequency response and stuff, but you can at least approximate that with Q factor (i.e., how much loss is draining power out of the system).

So if your ADC input is exactly 10p + 10M, you could resonate it with 0.7H (well...), which has a resonant impedance of 264k, and thus a reasonable Q of 38. (The real world typically bitchslaps the theorist at this point, as 0.7H chokes with <10pF parasitic capacitance and Q > 38 at 60kHz don't exist.) If the capacitance's ESR is less than 6.9kohms (i.e., 264k / 38), it won't have significant effect.

You can couple to this tank via parallel or series. If you did series, the input impedance would be 264k / 38, or 6.9k, not horrible; going from the 0.78 ohm loop to this in a single transformer requires a 1:100 CT, which works fine at 60kHz. (This CT would require high inductance, so as to avoid skewing results, but that's typical of a CT. An amorphous core CT would probably suffice. So at least that part is physically realizable.) Note the irony of coupling a current loop to a current loop, where in both cases, the CT looks like a small impedance relative to the loop it's within. That's simply how huge the impedance at the ADC is.

Since all these resistances are matched, the power transfer theorem holds, and you're pushing as much voltage and power into the ADC as possible. The bandwidth is about 1.6kHz, so the thermal noise floor is around 5uV at the ADC. A received power of 1nW will generate 0.1V, which is probably a reasonable figure. The SNR of the receiver is limited by quantization noise for <14 bits, thermal for >14 bits. A 16 bit converter wouldn't be too expensive at this sample rate (note it's the analog sample-and-hold speed which limits direct conversion performance; a sigma-delta, running at 100Hz, with no S&H, won't see jack).

> When you talk about reactances canceling, that sounds a lot like a tuned
> circuit at resonance. That is what I *am* doing and where this thread
> started. One problem with that is the lack of precision or stability of
> the parasitic capacitance. Any idea how to deal with that?

Considering theoretical 0.7H chokes aren't commercially available, you might swamp it with more C, which stabilizes the value, and requires less L to resonate. Rub: resonant impedance is lower, so the Q of the components must be higher in order to achieve the same performance. Even with a Q of 200, you still need over 0.25H, which is just as unlikely a combination. Well, if you really wanted to try, maybe a gapped ferrite-cored inductor could be made. Still, the only practical choice seems to be lower signal level.

So ultimately, the question is, how little signal can you tolerate before you need an amplifier? How many bits of conversion, how much sample rate can you afford before a linear amplifier becomes cheaper on the power budget?

> Have you looked at the simulation data I had posted? I think you are
> describing exactly the circuit we are simulating which I believe is an
> accurate representation of the circuit I plan to build. Is that not
> correct?

It's getting closer, but with adjustments (to the transformer inductance) to make the resonances line up (same frequencies). Plus whatever compromise you need to make on gain.

Tim

--
Deep Friar: a very philosophical monk.
Website: http://seventransistorlabs.com

From 3544290618427175053
X-Google-Thread: 241b302a50,6484c4f6c23ba9ac,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes

```
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.89.133 with SMTP id bo5mr2387808wib.6.1361849666752;
        Mon, 25 Feb 2013 19:34:26 -0800 (PST)
Path: bp2ni59452wib.1!nntp.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
194.109.133.83.MISMATCH!newsfeed.xs4all.nl!newsfeed4.news.xs4all.nl!xs4all!
border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!nntp.giganews.com!
news.teledata-fn.de!weretis.net!feeder4.news.weretis.net!news.linkpendium.com!
news.linkpendium.com!panix!rri.panix.com!robomod!not-for-mail
From: rec-radio-info-request@panix.com (SolderSmoke via rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.
radio.info
Subject: SolderSmoke Podcast for Monday 18 February 2013
Followup-To:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Date: Mon, 18 Feb 2013 06:05:27 EST
Organization: SolderSmoke
Lines: 12
Approved: RRI Admin <rec-radio-info-request@panix.com>
Message-ID: <e89a8f839f1d44ae4104d5fdb38d@google.com>
NNTP-Posting-Host: panix6.panix.com
Mime-Version: 1.0
X-Trace: reader1.panix.com 1361185528 26300 166.84.1.6 (18 Feb 2013 11:05:28 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 18 Feb 2013 11:05:28 +0000 (UTC)
X-RRI-Policy: http://www.panix.com/~rram/usenet/rri/index.html
X-RRI-Info-1: Send submissions to             rec-radio-info@panix.com
X-RRI-Info-2: Send technical complaints to    rec-radio-info-request@panix.com
X-RRI-Info-3: Send complaints about policy to rec-radio-info-request@panix.com
X-Comment-1: The moderators do not necessarily agree or disagree with this
article.
X-Comment-2: Moderators do not verify the accuracy of posted information.
X-Comment-3: Acceptance does not convey approval of any external references.
X-Robomod: STUMP, ichudov@algebra.com (Igor Chudov), C++/Perl/Unix Consulting
X-Moderation-1: Hassle-Free commercial hosting of moderation sites available
X-Moderation-2: See http://www.algebra.com/~ichudov/stump
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
        d=google.com; s=20120113;
        h=mime-version:x-received:sender:precedence:message-id:date:subject
         :from:to:content-type;
        bh=YouF5lSHyzMZLVwKqXRCcKU0OmZevDcLGXyEFW6i77A=;
        b=RN37V44lr/z96MLHjf3jXoC9BHdaVFbe2cYrV/Ieq9MIX3bUgMLnY+wt5+e1Ad8TaJ
         yUjBKIU8c/a6KZi77yXS9gdkSt/KPGKOcex2gyEX0isOn4i21TwN4FUQ7azn58rI4wS6
         RrEC7qc39PAyue9q2pIMa/HXHh8wYnTORDC0tCRUAGmCeOZAtXOeK6tOzhYxS3HDm+1F
         7SE/u1BOaFMHSl3DyJZM4uSwSyHlbWaX2yH97/fO7XKVdthsNBx27XXykXPLWB3lSamW
         1I6SWM5WvAtdvf0iNiiojMGtIMz+vB/QM7VoPx48Ls8gZw14xl3EXfl+nOLda6mMMa+x
         iT7A==
X-StripMime: Non-text section removed by stripmime
Content-Type: text/plain; charset=UTF-8; format=flowed; delsp=yes
```

SolderSmoke Podcasts

///

SolderSmoke149`

Posted: 17 Feb 2013 01:45 PM PST

SolderSmoke issue 149
This posting includes a media file:
http://www.soldersmoke.com/soldersmoke149.mp3

```
From -1565158175652408773
X-Google-Thread: 241b302a50,ef0a155a15e2887f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.19.132 with SMTP id f4mr2390250wie.2.1361849356387;
        Mon, 25 Feb 2013 19:29:16 -0800 (PST)
MIME-Version: 1.0
Path: bp2ni59445wib.1!nntp.google.com!feeder1.cambriumusenet.nl!
82.197.223.108.MISMATCH!feeder2.cambriumusenet.nl!feeder3.cambriumusenet.nl!
feed.tweaknews.nl!216.196.110.146.MISMATCH!border3.nntp.ams.giganews.com!
border1.nntp.ams.giganews.com!border4.nntp.ams.giganews.com!
border2.nntp.ams.giganews.com!nntp.giganews.com!news.teledata-fn.de!weretis.net!
feeder1.news.weretis.net!feeder.erje.net!us.feeder.erje.net!news.snarked.org!
newsfeed.news.ucla.edu!usenet.stanford.edu!w6yx.stanford.edu!techie
From: techie@w6yx.stanford.edu (Bob Vaughan)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PCB123 tutorial ne1?
Date: Tue, 19 Feb 2013 11:56:19 +0000 (UTC)
Lines: 51
Message-ID: <kfvp93$poo$1@usenet.stanford.edu>
References: <c0533393-1c57-4252-9ff4-36b871cb782f@ck1g2000vbb.googlegroups.com>
<50fc7c58$0$47101$c3e8da3$9b4ff22a@news.astraweb.com>
<0396d072-1706-41ff-9838-3ec4ebbb87cb@googlegroups.com> <GdSdnX--
ldTGIGDNnZ2dnUVZ5qednZ2d@giganews.com>
NNTP-Posting-Host: w6yx.stanford.edu
X-Trace: usenet.stanford.edu 1361274979 26392 171.67.193.66 (19 Feb 2013 11:56:19
GMT)
X-Complaints-To: action@cs.stanford.edu
X-Newsreader: trn 4.0-test77 (Sep 1, 2010)
Bytes: 2673

In article <GdSdnX--ldTGIGDNnZ2dnUVZ5qednZ2d@giganews.com>,
Tim Wescott  <tim@seemywebsite.com> wrote:
>On Mon, 21 Jan 2013 00:58:22 -0800, raypsi wrote:
>
>> A costumer would be not so bright to spend hundreds of USD
>> on a bunch of PCB's that don't come out right. PCB123's minimum cost is
>> $109 for 2pcs of 9 square inch board. You must be from a third world
>> backwater country if you think that is a high price.
>
>That's a much higher price than BatchPCB, which charges $2.50/sqin + $10/
```

```
>order.
>
>$109/board is too much for my hobby budget, although I routinely pay that
>much for professional stuff.


Yep.. $109 seems a bit steep, unless you need them really fast.


Oshpark charges $5/sqin for 3pcs, for sharp looking boards.
FR4 .063" 2-layers 1oz copper. purple boards, gold flashed.
About a 12-14 day turnaround. I think they are made in the US.
They also do 4 layer boards for $10/sqin.

Thre are several Chinese shops that will do 10pcs of 5x5cm boards
for ~$10, larger sizes for a bit more. About a month turnaround.
Seeed Studio, and a couple of others.


Lets see..  for a 9sqin board..

PCB123
     $109/2 = $54.50 per board

BatchPCB
     9sqin x $2.50 = $22.50 per board
     +$10 order = $32.50 for first board
     $55 for 2 boards.

Oshpark
     9sqin x $5 = $45.
     $45/3 = $15 per board

So PCB123 is ~2x the price of BatchPCB, and >3x the price of Oshpark.


--
               -- Welcome My Son, Welcome To The Machine --
Bob Vaughan  | techie@{w6yx|tantivy}.stanford.edu  | techie@tantivy.net
AF6RR         | P.O. Box 19792, Stanford, Ca 94309 | 1-650-469-3850
-- I am Me, I am only Me, And no one else is Me, What could be simpler? --


From 5055139888956580769
X-Google-Thread: 241b302a50,ef0a155a15e2887f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.102.69 with SMTP id fm5mr2398201wib.0.1361849720739;
        Mon, 25 Feb 2013 19:35:20 -0800 (PST)
Path: g1ni33279wig.0!nntp.google.com!feeder1.cambriumusenet.nl!
82.197.223.108.MISMATCH!feeder2.cambriumusenet.nl!feeder3.cambriumusenet.nl!
feed.tweaknews.nl!193.141.40.65.MISMATCH!npeer.de.kpn-eurorings.net!npeer-
```

ng0.de.kpn-eurorings.net!border2.nntp.ams2.giganews.com!border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!nntp.giganews.com!news.teledata-fn.de!noris.net!news2.arglkargh.de!news.mixmin.net!eternal-september.org!feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PCB123 tutorial ne1?
Date: Tue, 19 Feb 2013 19:15:15 -0500
Organization: A noiseless patient Spider
Lines: 55
Message-ID: <kg14gs$5cq$2@dont-email.me>
References: <c0533393-1c57-4252-9ff4-36b871cb782f@ck1g2000vbb.googlegroups.com> <50fc7c58$0$47101$c3e8da3$9b4ff22a@news.astraweb.com> <0396d072-1706-41ff-9838-3ec4ebbb87cb@googlegroups.com> <GdSdnX--ldTGIGDNnZ2dnUVZ5qednZ2d@giganews.com> <kfvp93$poo$1@usenet.stanford.edu>
Mime-Version: 1.0
Injection-Date: Wed, 20 Feb 2013 00:14:21 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-host="98af7fb00d7b5359f8ffc9601289d80d";
logging-data="5530"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX18/GwnXkJDSHgO1w0vLNjVV"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/12.0.1
In-Reply-To: <kfvp93$poo$1@usenet.stanford.edu>
Cancel-Lock: sha1:6efXw7EJO4QPH8TgeKS4BKMamEU=
Bytes: 3133
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 2/19/2013 6:56 AM, Bob Vaughan wrote:
> In article<GdSdnX--ldTGIGDNnZ2dnUVZ5qednZ2d@giganews.com>,
> Tim Wescott<tim@seemywebsite.com> wrote:
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>>
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>
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>
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>
> So PCB123 is ~2x the price of BatchPCB, and>3x the price of Oshpark.

What was the turn around time at PCB123? Not everyone can wait a month
or more for prototype boards.

I had a muffed delivery from Sunstone once that almost sank a project.
Turn around is important for many projects.

--

Rick

```
From -8502740948792070124
X-Google-Thread: 241b302a50,6e79a3cc99799aa3,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.89.133 with SMTP id bo5mr730467wib.6.1362277207228;
        Sat, 02 Mar 2013 18:20:07 -0800 (PST)
Path: g1ni43006wig.0!nntp.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
194.109.133.83.MISMATCH!newsfeed.xs4all.nl!newsfeed4.news.xs4all.nl!xs4all!
border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!nntp.giganews.com!
newsreader4.netcologne.de!news.netcologne.de!newsfeed.kamp.net!newsfeed.kamp.net!
eternal-september.org!feeder.eternal-september.org!mx05.eternal-
september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Antenna Simulation in LTspice
Date: Wed, 27 Feb 2013 22:07:51 -0500
Organization: A noiseless patient Spider
```

```
Lines: 25
Message-ID: <kgmhkd$rq3$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Thu, 28 Feb 2013 03:06:53 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-
host="75a93ac8a768912fb602c24420462290";
     logging-data="28483"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19ZrApsAsJxWJqHkhDyqrf3"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
Cancel-Lock: sha1:dp9eOaqPZc9t3E829ISMtecOojE=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

I am working on a simulation for a loop antenna in LTspice and I can't figure out why the signal strength features are what they are. The model uses a pair of loosely coupled inductors to model the transmitter and antenna loop with a separate pair of tightly coupled inductors to model the coupling transformer. A cap on the primary circuit is the tuning cap and a cap on the secondary is parasitic effects of the circuit board leading to the inputs on the IC.

There is a resonance near the frequency I would expect, but it is not so close actually. I can't figure why it is about 5% off. There is a second resonance fairly high up that I can't figure at all. None of the component values seem to combine appropriately to produce this peak. When looking at the tuning capacitor voltage there is an anti-resonance that is exactly at the frequency corresponding to the secondary resonance with the transformer and the parasitic capacitance. That makes sense to me, but it is pretty much the only part that jibes with what I can figure out.

I have uploaded a zip file with the schematic and a measurement file.

http://arius.com/temp/Antenna_trans_LTspice.zip

--

Rick

```
From -1143648318771947914
X-Google-Thread: 241b302a50,6e79a3cc99799aa3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.42.165.67 with SMTP id j3mr3738141icy.33.1362818014694;
        Sat, 09 Mar 2013 00:33:34 -0800 (PST)
MIME-Version: 1.0
Path: q9ni6347pba.1!nntp.google.com!npeer03.iad.highwinds-media.com!feed-
me.highwinds-media.com!cyclone03.ams2.highwinds-media.com!news.highwinds-
media.com!voer-me.highwinds-media.com!news.unit0.net!eternal-september.org!
feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-for-mail
```

From: "Tim Williams" <tmoranwms@charter.net>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Fri, 8 Mar 2013 15:30:53 -0600
Organization: A noiseless patient Spider
Lines: 28
Message-ID: <khdl8n$pf9$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me> <kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-email.me> <kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me> <kh8pgv$nob$1@dont-email.me> <kha9e1$9qt$1@dont-email.me> <5139584d$0$54952$c3e8da3$e408f015@news.astraweb.com> <khdkgg$lbg$1@dont-email.me>
Injection-Date: Fri, 8 Mar 2013 21:29:59 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-host="c5496f60c1e2fe7da0e7ee177c343043";
logging-data="26089"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX1/iuCyHPWgMf6EaDkmuBRmK"
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:c8yM3UdJOSsWacVJGSvMJ0T0ocw=
X-Priority: 3
X-MSMail-Priority: Normal
X-Received-Bytes: 2126

"rickman" <gnuarm@gmail.com> wrote in message
news:khdkgg$lbg$1@dont-email.me...

```
> Is this a current transformer or a voltage transformer?
>     .--------.  .--------.
>     |        |  |        |
>     |        C||C        >
>    VAC       C||C        >  Load
>     |        C||C        >
>     |        |  |        |
>     `--------'  `--------'
```

Voltage. How about this?

```
>     .--------.  .--------.
>     |        |  |        |
>     |        C||C        >
>    IAC       C||C        >  Load
>     |        C||C        >
>     |        |  |        |
>     `--------'  `--------'
```

Tim

--
Deep Friar: a very philosophical monk.
Website: http://seventransistorlabs.com

```
From -2837836453191690459
X-Google-Thread: 241b302a50,6e79a3cc99799aa3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.69.3.161 with SMTP id bx1mr1967499pbd.1.1362818017668;
        Sat, 09 Mar 2013 00:33:37 -0800 (PST)
Path: q9ni6385pba.1!nntp.google.com!npeer03.iad.highwinds-media.com!feed-
me.highwinds-media.com!cyclone03.ams2.highwinds-media.com!news.highwinds-
media.com!voer-me.highwinds-media.com!news.unit0.net!eternal-september.org!
feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Fri, 08 Mar 2013 16:51:57 -0500
Organization: A noiseless patient Spider
Lines: 30
Message-ID: <khdmfh$vkr$2@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
<kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-
email.me> <kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me>
<kh8pgv$nob$1@dont-email.me> <kha9e1$9qt$1@dont-email.me>
<5139584d$0$54952$c3e8da3$e408f015@news.astraweb.com> <khdkgg$lbg$1@dont-email.me>
<khdl8n$pf9$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Fri, 8 Mar 2013 21:50:42 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-
host="77dcc5488ac2f0819315036b551cc948";
     logging-data="32411"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+VP+/isDViSXj1iJsyooC5"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
In-Reply-To: <khdl8n$pf9$1@dont-email.me>
Cancel-Lock: sha1:y3V7dZr+I2riwWpZjt18wwYg9Pw=
X-Received-Bytes: 2228
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 3/8/2013 4:30 PM, Tim Williams wrote:
> "rickman"<gnuarm@gmail.com>  wrote in message
> news:khdkgg$lbg$1@dont-email.me...
>> Is this a current transformer or a voltage transformer?
>>      .--------.  .--------.
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>>      |        C||C>
>>     VAC       C||C>   Load
>>      |        C||C>
>>      |        |  |        |
>>      `--------'  `--------'
```

```
>
> Voltage.  How about this?
>
>>      .--------.  .--------.
>>      |        |  |        |
>>      |        C||C>
>>     IAC       C||C>   Load
>>      |        C||C>
>>      |        |  |        |
>>      `--------'  `--------'
>
> Tim
>
```

I have to say I don't follow the distinction. It is a transformer, no?

--

Rick

```
From -1804064217642982411
X-Google-Thread: 241b302a50,6e79a3cc99799aa3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.172.36 with SMTP id az4mr3425044pac.38.1362277202088;
        Sat, 02 Mar 2013 18:20:02 -0800 (PST)
MIME-Version: 1.0
Path: jm3ni29419pbb.0!nntp.google.com!border1.nntp.dca.giganews.com!novia!news-
peer1!btnet!zen.net.uk!hamilton.zen.co.uk!xlned.com!feeder7.xlned.com!
news.astraweb.com!border5.a.newsrouter.astraweb.com!border2.nntp.ams.giganews.com!
nntp.giganews.com!newsreader4.netcologne.de!news.netcologne.de!news.mixmin.net!
eternal-september.org!feeder.eternal-september.org!mx05.eternal-
september.org!.POSTED!not-for-mail
From: "Tim Williams" <tmoranwms@charter.net>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Wed, 27 Feb 2013 22:40:57 -0600
Organization: A noiseless patient Spider
Lines: 40
Message-ID: <kgmn2i$da8$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me>
Injection-Date: Thu, 28 Feb 2013 04:39:46 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-
host="c5496f60c1e2fe7da0e7ee177c343043";
     logging-data="13640"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19d20HTu7zmVHo34D7Aj2+y"
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:aubYoBkQG01BZKPMPXlJ1xh/2ZM=
```

X-Priority: 3
X-MSMail-Priority: Normal
Bytes: 2973
X-Original-Bytes: 2928

I expect if you reflect the CT secondary stuff (don't forget Lsec) back to
the primary, your answer will appear. Offhand I can't reason out which
sum of L and C makes the resonance, but it's a four pole series-parallel
resonant circuit, analysis should lay it bare.

Tim

--
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Website: http://seventransistorlabs.com

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> makes sense to me, but it is pretty much the only part that jibes with
> what I can figure out.
>
> I have uploaded a zip file with the schematic and a measurement file.
>
> http://arius.com/temp/Antenna_trans_LTspice.zip
>
> --
>
> Rick

From 9232704509880545 80
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.196.134 with SMTP id im6mr1606842pbc.5.1362093081421;

```
        Thu, 28 Feb 2013 15:11:21 -0800 (PST)
Path: jm3ni25689pbb.0!nntp.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!usenet.blueworldhosting.com!eternal-september.org!
feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Thu, 28 Feb 2013 18:11:11 -0500
Organization: A noiseless patient Spider
Lines: 22
Message-ID: <kgoo4e$ts5$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Thu, 28 Feb 2013 23:10:06 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-
host="1f3ae2e4ea50fd8b10390c053d8053db";
     logging-data="30597"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18/QXHCa9MJ49A6/v3nGVgY"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
In-Reply-To: <kgmn2i$da8$1@dont-email.me>
Cancel-Lock: sha1:NiT5M5YAFo3KK+62v2D32UB0QCI=
Bytes: 2223
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 2/27/2013 11:40 PM, Tim Williams wrote:

> I expect if you reflect the CT secondary stuff (don't forget Lsec) back to
> the primary, your answer will appear. Offhand I can't reason out which
> sum of L and C makes the resonance, but it's a four pole series-parallel
> resonant circuit, analysis should lay it bare.

Are you sure about this? When you say to reflect the secondary back to the primary that means the primary inductance would be doubled? I believe the coupling of the two coils means they are one and the same for the purposes of the circuit analysis, no?

You can't reason which sum of L and C makes the resonance and I can't either. The calculation is off by about 5% and I can't explain that. I can explain a null at about 290 kHz. That is the resonance of the secondary with the secondary capacitance. I can't explain the other peak at 363 kHz at all. A higher frequency would imply a smaller L and/or C. How do you combine them to produce that? Consider the two caps to be in series???

--

Rick

```
From 2874381036283472741
X-Google-Thread: 241b302a50,6e79a3cc99799aa3
```

X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.88.200 with SMTP id bi8mr1889957pab.13.1362094808742;
        Thu, 28 Feb 2013 15:40:08 -0800 (PST)
MIME-Version: 1.0
Path: ov8ni25566pbb.1!nntp.google.com!npeer01.iad.highwinds-media.com!feed-me.highwinds-media.com!cyclone01.ams2.highwinds-media.com!news.highwinds-media.com!voer-me.highwinds-media.com!news.astraweb.com!
border6.a.newsrouter.astraweb.com!newsfeed101.telia.com!starscream.dk.telia.net!
eternal-september.org!feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-for-mail
From: "Tim Williams" <tmoranwms@charter.net>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Thu, 28 Feb 2013 17:40:06 -0600
Organization: A noiseless patient Spider
Lines: 61
Message-ID: <kgopqd$5lu$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
<kgoo4e$ts5$1@dont-email.me>
Injection-Date: Thu, 28 Feb 2013 23:38:53 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-host="c5496f60c1e2fe7da0e7ee177c343043";
     logging-data="5822"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/FLQcmmy2KIiBVkwN4BLU6"
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:Zen6nyhDvPcR9v3hUr4GIj0iJnA=
X-Priority: 3
X-MSMail-Priority: Normal
X-Received-Bytes: 4236

"rickman" <gnuarm@gmail.com> wrote in message
news:kgoo4e$ts5$1@dont-email.me...

> A higher frequency would imply a smaller L and/or C. How do you combine
> them to produce that? Consider the two caps to be in series???

Sure. If you bring the 10p over to the primary, it looks like 10p * (30m / 5u), or whatever the ratio was (I don't have it in front of me now), in parallel with the primary. (I misspoke earlier, you can safely ignore Ls, because k = 1. There's no flux which is not common to both windings.)

Inductors effectively in parallel also increase the expected resonant frequency. If you have this,

```
.             L1
.      +-----UUU--+------+------+
.      | +        |      |      |
.  ( Vsrc )      === C    > R    3 L2
.      | -        |      >      3
.      |          |      |      |
.      +----------+------+------+
.                              _|_ GND
```

You might expect the resonant frequency is L2 + C, but it's actually (L1 || L2) = Leq. If L1 is not substantially larger than L2, the resonant frequency will be pulled higher.

Incidentally, don't forget to include loss components. I didn't see any explict R on the schematic. I didn't check if you set the LTSpice default parasitic ESR (cap), or DCR or EPR (coil) on the components. Besides parasitic losses, your signal is going *somewhere*, and that "where" consumes power!

The actual transmitter is most certainly not a perfect current source inductor, nor is the receiver lossless. This simulation has no expression for radiation in any direction that's not directly between the two antennas: if all the power transmitted by the current source is reflected back, even though it's through a 0.1% coupling coefficient, it has to go somewhere. If it's coming back out the antenna, and it's not being burned in the "transformer", it's coming back into the transmitter. This is at odds with reality, where a 100% reflective antenna doesn't magically smoke a distant transmitter, it simply reflects 99.9% back into space. The transmitter hardly knows.

In this example, if you set R very large, you'll see ever more voltage on the output, and ever more current draw from Vsrc. You can mitigate this by increasing L1 still further, but the point is, if the source and load (R) aren't matched in some fashion, the power will reflect back to the transmitter and cause problems (in this case, power reflected back in-phase causes excessive current draw; in the CCS case, reflected power in-phase causes minimal voltage generation and little power transmission).

Power is always coming and going somewhere, and if you happen to forget this fact, it'll reflect back and zap you in the butt sooner or later!

Tim

--
Deep Friar: a very philosophical monk.
Website: http://seventransistorlabs.com

```
From -3998384020579623543
X-Google-Thread: fc2a5,7719cfc71a79f5,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,7719cfc71a79f5,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,7719cfc71a79f5,start
X-Google-NewGroupId: yes
X-Google-Thread: 10e8ad,7719cfc71a79f5,start
```

```
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gida3e752f117,gide721ae2bf6,gid8f86f75953,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.86.34 with SMTP id m2mr707910wiz.5.1362145655525;
        Fri, 01 Mar 2013 05:47:35 -0800 (PST)
MIME-Version: 1.0
Path: bp2ni66187wib.1!nntp.google.com!feeder1-2.proxad.net!proxad.net!
feeder2-2.proxad.net!nx01.iad01.newshosting.com!newshosting.com!novia!news-
out.readnews.com!transit4.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1360911602@panix.com>
Followup-To: poster
Date: 1 Mar 2013 08:47:34 -0500
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 05 Jun 2013 09:47:34 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1362145654@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1362145655 15575 166.84.1.2 (1 Mar 2013 13:47:35 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 1 Mar 2013 13:47:35 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted quarterly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader
opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/
d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider       |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup.  After a successful trial         |
```

period (90 days, through early July 2009), we decided to adopt this |
change permanently. |

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From -7714867300457969939
X-Google-Thread: 112d1e,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.161.105 with SMTP id xr9mr2642942pab.3.1362156129987;
        Fri, 01 Mar 2013 08:42:09 -0800 (PST)
Path: ov8ni26976pbb.1!nntp.google.com!news.glorb.com!npeer01.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
post02.iad.highwinds-media.com!PRIMUS.CA-a2nVz4C4Vq3uM!not-for-mail
From: legg <legg@nospam.magma.ca>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Fri, 01 Mar 2013 11:43:59 -0500
Message-ID: <6tl1j8dno98p73qikmfqmvhlco12699u5m@4ax.com>
References: <kgmhkd$rq3$1@dont-email.me>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
```

```
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 22
X-Trace: 0136d5130da1d86b2fd220671
X-Received-Bytes: 1500
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
```

On Wed, 27 Feb 2013 22:07:51 -0500, rickman <gnuarm@gmail.com> wrote:

<snip>
>There is a resonance near the frequency I would expect, but it is not so
>close actually. I can't figure why it is about 5% off. There is a
>second resonance fairly high up that I can't figure at all. None of the
>component values seem to combine appropriately to produce this peak.
<snip>

Pulling out the old reactance paper, there are a couple of expected interactions using the values present:

Around 50KHz (89.42uH+48uH) with 50.42nF (L3+L1) with C1
Around 290KHz (89.42uH+48uH) with 6.25nF (L3+L1) with C2*N^2
Around 360KHz 48uH with 6.25nF L1 with C2*N^2
nL1/nL2=N=25

The mid-resonance is a dip or rejection.

What's the issue?

RL

```
From -1474184774697762408
X-Google-Thread: 241b302a50,5c45b4074c7a5b89,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.224.172.200 with SMTP id m8mr12908701qaz.0.1364476852165;
        Thu, 28 Mar 2013 06:20:52 -0700 (PDT)
X-Received: by 10.49.61.234 with SMTP id t10mr1312161qer.16.1364476852079;
 Thu, 28 Mar 2013 06:20:52 -0700 (PDT)
Path: v17ni9qad.0!nntp.google.com!ca1no14556208qab.0!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Thu, 28 Mar 2013 06:20:51 -0700 (PDT)
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=155.178.5.18;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
NNTP-Posting-Host: 155.178.5.18
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <0de126fa-f646-4d79-9e11-9732caff47ec@googlegroups.com>
Subject: TO-3 transistor socket
```

```
From: JIMMIE <JIMMIEDEE123@yahoo.com>
Injection-Date: Thu, 28 Mar 2013 13:20:52 +0000
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

I want to add sockets TO-3 for the pass transistors in my 12 volt power sup=
ply. The trouble is I can not find current(I) specifications for the socket=
s. I really dont know what I should expect for a spec, guessing 10 amps for=
 a good quality unit. Any help would be greatly appreciated.

KD4RQE
Jimmie



From 4656311271755837993
X-Google-Thread: 241b302a50,5c45b4074c7a5b89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.188.52 with SMTP id fx20mr3638549wic.3.1364958264584;
        Tue, 02 Apr 2013 20:04:24 -0700 (PDT)
MIME-Version: 1.0
Path: p18ni34169wiv.0!nntp.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
194.109.133.83.MISMATCH!newsfeed.xs4all.nl!newsfeed4.news.xs4all.nl!xs4all!
newspeer1.nac.net!border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nrc-
news.nrc.ca!border3.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.earthlink.com!
news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 28 Mar 2013 10:06:37 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <0de126fa-f646-4d79-9e11-9732caff47ec@googlegroups.com>
Subject: Re: TO-3 transistor socket
Date: Thu, 28 Mar 2013 11:06:36 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
Message-ID: <l4WdncU50frgwcnMnZ2dnUVZ_rqdnZ2d@earthlink.com>
Lines: 18
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.148.196.5
X-Trace: sv3-
NbNL5QLVopOpDDLpkkjeH06T34IsJaJs5dnX5ODasocrgn4kDV9SQGPN7DpNcp+hNvAqk/Tf0jkSF+x!
gyOMXhpiVC6f3mx37unI6NVFLXaGXykaiMkNswQoh2I23ZR78IxBq8rD6+MS2AhooTotkoQXE0Gm!
+OIsS1Rn10NalpBRzn8=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1894
```

"JIMMIE" <JIMMIEDEE123@yahoo.com> wrote in message
news:0de126fa-f646-4d79-9e11-9732caff47ec@googlegroups.com...
I want to add sockets TO-3 for the pass transistors in my 12 volt power
supply. The trouble is I can not find current(I) specifications for the
sockets. I really dont know what I should expect for a spec, guessing 10
amps for a good quality unit. Any help would be greatly appreciated.

It depends on the socket. They seem to average about 10 amps for the most
part. Some are rated from 5 to 20 amps. There are some special ones out
that seem to be rated for about 50 amps. I think they are made for some
special large pin to3 size transistors.

Here is a data sheet on one of the 'normal' types.
http://www.mouser.com/catalog/specsheets/5068080G.pdf

```
From 8493234256061806465
X-Google-Thread: 241b302a50,33c0bf31e7c9166a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.182.229 with SMTP id eh5mr3473268wic.1.1364938436874;
        Tue, 02 Apr 2013 14:33:56 -0700 (PDT)
MIME-Version: 1.0
Path: p18ni33703wiv.0!nntp.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
194.109.133.83.MISMATCH!newsfeed.xs4all.nl!newsfeed4.news.xs4all.nl!xs4all!
newspeer1.nac.net!border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!
news.bbs-scene.org!goblin3!gin-ad1-unet1.teleglobe.net!goblin2!goblin.stu.neva.ru!
cyclone03.ams2.highwinds-media.com!voer-me.highwinds-media.com!
npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!nx02.iad01.newshosting.com!newshosting.com!216.196.98.146.MISMATCH!
border3.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 28 Mar 2013 12:02:23 -0500
From: vu2nan <vu2nan.b9a2f98@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: A homebrew RF Milliammeter
Date: Thu, 28 Mar 2013 14:56:00 +0000
Message-ID: <vu2nan.b9a2f98@radiobanter.com>
Organization: RadioBanter.com
References: <vu2nan.b939818@radiobanter.com>
Lines: 13
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
dLagH9k9QfsJNuKCWwl1GkKg1I8QYuN05n6n1PSseUBoUdxrZEUtcRCVccLvio7yt5Ghwj3nbVnlMxk!
vUD2c/gm1KzTfzHTcbFTDipXIXzEurvALKjzNuM+M9V0riPun1A9oRdIPm1cJ5QQw1O+yKFWKgWR!tVnb
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
```

```
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 7
X-Original-Bytes: 1079
X-Received-Bytes: 1418
```

Here's an update.

http://nandustips.blogspot.in/2013/03/a-homebrew-rf-milliammeter.html

73,

Nandu.

--
vu2nan

```
From -8174362412393166553
X-Google-Thread: 241b302a50,fe597dffb4fb1f47,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.224.207.2 with SMTP id fw2mr3517033qab.6.1365343120092;
        Sun, 07 Apr 2013 06:58:40 -0700 (PDT)
Path: ef9ni13661qab.0!nntp.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newspeer1.nac.net!newsfeed.xs4all.nl!newsfeed3.news.xs4all.nl!
xs4all!xlned.com!feeder3.xlned.com!npeer.de.kpn-eurorings.net!npeer-ng0.de.kpn-
eurorings.net!news.n-ix.net!news.hufnagl.info!fu-berlin.de!feeder.erje.net!
us.feeder.erje.net!news.linkpendium.com!news.linkpendium.com!panix!rri.panix.com!
robomod!not-for-mail
From: rec-radio-info-request@panix.com (SolderSmoke via rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.
radio.info
Subject: SolderSmoke Podcast for Monday  1 April 2013
Followup-To:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Date: Mon, 1 Apr 2013 06:43:20 EDT
Organization: SolderSmoke
Lines: 12
Approved: RRI Admin <rec-radio-info-request@panix.com>
Message-ID: <f46d0447952ba4981b04d94a497e@google.com>
NNTP-Posting-Host: panix6.panix.com
Mime-Version: 1.0
X-Trace: reader1.panix.com 1364813000 20829 166.84.1.6 (1 Apr 2013 10:43:20 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 1 Apr 2013 10:43:20 +0000 (UTC)
```

```
X-RRI-Policy: http://www.panix.com/~rram/usenet/rri/index.html
X-RRI-Info-1: Send submissions to            rec-radio-info@panix.com
X-RRI-Info-2: Send technical complaints to    rec-radio-info-request@panix.com
X-RRI-Info-3: Send complaints about policy to rec-radio-info-request@panix.com
X-Comment-1: The moderators do not necessarily agree or disagree with this
article.
X-Comment-2: Moderators do not verify the accuracy of posted information.
X-Comment-3: Acceptance does not convey approval of any external references.
X-Robomod: STUMP, ichudov@algebra.com (Igor Chudov), C++/Perl/Unix Consulting
X-Moderation-1: Hassle-Free commercial hosting of moderation sites available
X-Moderation-2: See http://www.algebra.com/~ichudov/stump
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
        d=google.com; s=20120113;
        h=mime-version:x-received:sender:precedence:message-id:date:subject
         :from:to:content-type;
        bh=NWX/iNkpg6qX6DUkWgVx+5hV8g/Hg6EZ1m/gXc72xXI=;
        b=AE3dgpo1pClJ9RpGYFqSMi2Ho1zABRChBvkYYNtA1CqVMVKNtwpFiuxdW+FdzHC0jY
         T78cM5KcxMXO7by1dV2ggYW2Jx1M2xzJUSEbs7tQFekpCGXn6hP/Vd+5sww3vNtIZ/tH
         oJt+TbzOmP4XmIYGrnzIfXi//HJ6XiFs9km1lfZuWHHSWudKNGowAfAoCUWY/4j3IW+r
         lTa+UeDtI6Bogf0MI+aJrg44sBC+d0L3TOPIhda+XWUxVOmz0GVk3T8XoOfBTcTSUlsD
         jkMBPq0zo3tesGs5cNIkF6N2zo0KdiUIACHC9MNDD9EG+GbnQxAxaBpl4Z35TJ9lF0ax
         J2mA==
X-StripMime: Non-text section removed by stripmime
Bytes: 3045
Content-Type: text/plain; charset=UTF-8; format=flowed; delsp=yes
```

SolderSmoke Podcasts

///
SolderSmoke151`

Posted: 01 Apr 2013 01:52 AM PDT

SolderSmoke issue 151
This posting includes a media file:
http://www.soldersmoke.com/soldersmoke151.mp3

```
From 4453747682677036437
X-Google-Thread: fc2a5,48d35be5e76797fe,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.121.3 with SMTP id lg3mr394455pab.41.1365008543410;
        Wed, 03 Apr 2013 10:02:23 -0700 (PDT)
MIME-Version: 1.0
Path: jv11ni586pbb.0!nntp.google.com!news.glorb.com!border3.nntp.dca.giganews.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 03 Apr 2013 12:02:21 -0500
```

```
From: vu2nan <vu2nan.ba21898@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: A Steampunk RF Milliammeter
Date: Wed, 3 Apr 2013 15:07:01 +0000
Message-ID: <vu2nan.ba21898@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
Lines: 15
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-zv7/+Nqee2RHJpFIPMgmHnmWai7RER4uRSLlVnO/
Ojh3xeNH6mxlgmCziK6sKiBiLa2rNgVm1WZxuF9!
B6w2MUkfo4wVQV5zOiawjNtMW9u8YKtsHuWiw+MYBOuv5Bl132uWqCeCYcY0JJ6asC+VWKAK0bpX!NSFW
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 9
X-Original-Bytes: 1000
```

Here's the link.

http://tinyurl.com/chh59l6

Many thanks.

73,

Nandu.

--
vu2nan

```
From -4209203682683882802
X-Google-Thread: fc2a5,48d35be5e76797fe
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.106.232 with SMTP id gx8mr689524wib.2.1365159736434;
        Fri, 05 Apr 2013 04:02:16 -0700 (PDT)
MIME-Version: 1.0
Path: p18ni38726wiv.0!nntp.google.com!feeder1-2.proxad.net!proxad.net!
feeder2-2.proxad.net!nx02.iad01.newshosting.com!newshosting.com!
216.196.98.146.MISMATCH!border3.nntp.dca.giganews.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
```

```
NNTP-Posting-Date: Fri, 05 Apr 2013 06:02:15 -0500
From: vu2nan <vu2nan.ba46738@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: A Steampunk RF Milliammeter
Date: Fri, 5 Apr 2013 08:06:46 +0000
Message-ID: <vu2nan.ba46738@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
Lines: 13
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-2hbZLDLKEj7mMTPhTnKTGvPyts/vTYRMam+DiCm+B0pxk2M4Q5at4jvgWSsFSSJAUGi/
9oXIntaDzTp!
6U4ggMc95QFBmILTqvq+HBzjaCt3CZ3hZZxGdMUH9XbJIILS1UNaTFkGVDucl0NqXtsZOYX5Zu2X!ZWLE
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1075
X-Original-Lines: 7
X-Original-Bytes: 993


Please do check this out.

http://tinyurl.com/chh59l6

73,

Nandu.




--
vu2nan


From 1404468147962007166
X-Google-Thread: fc2a5,5c45b4074c7a5b89
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
X-Received: by 10.180.182.229 with SMTP id eh5mr1163802wic.1.1365180430634;
        Fri, 05 Apr 2013 09:47:10 -0700 (PDT)
Path: p18ni39196wiv.0!nntp.google.com!proxad.net!feeder1-2.proxad.net!
feeder.erje.net!eu.feeder.erje.net!eternal-september.org!feeder.eternal-
september.org!mx05.eternal-september.org!.POSTED!not-for-mail
From: highlandham <highlandham.nospam@rfburns.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: TO-3 transistor socket
```

```
Date: Fri, 05 Apr 2013 17:47:08 +0100
Organization: A noiseless patient Spider
Lines: 12
Message-ID: <kjmv1p$9u3$1@dont-email.me>
References: <0de126fa-f646-4d79-9e11-9732caff47ec@googlegroups.com>
Mime-Version: 1.0
Injection-Date: Fri, 5 Apr 2013 16:44:41 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-host="b28926ff51b7cb7aab1b019a727ed175";
     logging-data="10179"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18nsjGznQ+QXNlwgZ8Izmsblc8B5Pc7CLc="
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:17.0) Gecko/20130308 Thunderbird/17.0.4
In-Reply-To: <0de126fa-f646-4d79-9e11-9732caff47ec@googlegroups.com>
Cancel-Lock: sha1:fjisuhuUnHb2V3VdC4ArvQz6Ga8=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
```

On 28/03/13 13:20, JIMMIE wrote:

> I want to add sockets TO-3 for the pass transistors in my 12 volt power supply. The trouble is I can not find current(I) specifications for the sockets. I really dont know what I should expect for a spec, guessing 10 amps for a good quality unit. Any help would be greatly appreciated.
>
> KD4RQE
> Jimmie
>

Pass transistors need a heatsink ,so why should you need sockets.
Connection with a PCB located circuit is usually done with �sliding
solder tags� wired to the PCB , but of course you can also directly
solder the wires to the transistor pins.

Frank   GM0CSZ / KN6WH

```
From -5763690244398090959
X-Google-Thread: 241b302a50,a193b16411f7c0b2,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
X-Received: by 10.224.58.77 with SMTP id f13mr11057974qah.7.1366380708556;
        Fri, 19 Apr 2013 07:11:48 -0700 (PDT)
Path: ef9ni4630qab.0!nntp.google.com!border1.nntp.dca.giganews.com!border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!nrc-news.nrc.ca!News.Dal.Ca!news.litech.org!news.etla.org!feeder.erje.net!us.feeder.erje.net!news.linkpendium.com!news.linkpendium.com!panix!rri.panix.com!robomod!not-for-mail
From: rec-radio-info-request@panix.com (AmateurLogic.TV via rec.radio.info Admin)
Newsgroups: rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.info
Subject: AmateurLogic.TV for Friday 12 April 2013
Followup-To:
```

```
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Date: Fri, 12 Apr 2013 00:17:40 EDT
Organization: AmateurLogic.TV
Lines: 18
Approved: RRI Admin <rec-radio-info-request@panix.com>
Message-ID: <20cf3011e125bbc38404da222eb5@google.com>
NNTP-Posting-Host: panix6.panix.com
Mime-Version: 1.0
X-Trace: reader1.panix.com 1365740260 20960 166.84.1.6 (12 Apr 2013 04:17:40 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 12 Apr 2013 04:17:40 +0000 (UTC)
X-RRI-Policy: http://www.panix.com/~rram/usenet/rri/index.html
X-RRI-Info-1: Send submissions to             rec-radio-info@panix.com
X-RRI-Info-2: Send technical complaints to    rec-radio-info-request@panix.com
X-RRI-Info-3: Send complaints about policy to rec-radio-info-request@panix.com
X-Comment-1: The moderators do not necessarily agree or disagree with this
article.
X-Comment-2: Moderators do not verify the accuracy of posted information.
X-Comment-3: Acceptance does not convey approval of any external references.
X-Robomod: STUMP, ichudov@algebra.com (Igor Chudov), C++/Perl/Unix Consulting
X-Moderation-1: Hassle-Free commercial hosting of moderation sites available
X-Moderation-2: See http://www.algebra.com/~ichudov/stump
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
        d=google.com; s=20120113;
        h=mime-version:x-received:sender:precedence:message-id:date:subject
         :from:to:content-type;
        bh=NWH9Ztctc0CNP4HlzggujPsJcOI0DBe0GCD1ZewDrgw=;
        b=NvOfTh92ArCE2ZPf05eI9lqeSMbvBphsKJO8heMbqZH0f1ufBcR2M8uQ7kTRempL0G
         gBmW/5PRrxrvr5kTsfH/ZbDd5ZOAGNDoIR07eOedCTZQzKI9i/wq5Ug7cPwcDY6QiuXh
         0wmS104G9CE81Z1qw3fhPsqOXnodE+isbjd9r4wzjTtTszUCOqdoKUWvT5Bpn4+5DsTv
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         OR6fhO0yFzWDuK8bW3spn/5qy3yc6DGZzQ/6jI8nqlIedLjDTcpdPMvCJQCzdtVP31S4
         GrIQ==
X-StripMime: Non-text section removed by stripmime
Bytes: 3451
Content-Type: text/plain; charset=UTF-8; format=flowed; delsp=yes
```

AmateurLogic.TV

///
AmateurLogic.TV Episode 53

Posted: 11 Apr 2013 03:00 AM PDT
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic53_hi.wmv

George answers the question ‘Can you work PSK31 on the Raspberry Pi’.
We bring you a behind the scenes view of ‘The Making of AmateurLogic.TV’.
Peter visits the Canberra Deep Space Communication Complex and gets a special tour just for our viewers.
Plus we announce our exciting Field Day Giveaway Contest with great gear from Icom, GigaParts, MFJ and Heil Sound. More details at amateurlogic.tv/contest.

This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic53_hi.wmv

From 550767953472053404
X-Google-Thread: 241b302a50,6e79a3cc99799aa3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.86.34 with SMTP id m2mr453993wiz.5.1362818015218;
        Sat, 09 Mar 2013 00:33:35 -0800 (PST)
Path: g1ni54091wig.0!nntp.google.com!fu-berlin.de!news.unit0.net!eternal-september.org!feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Fri, 08 Mar 2013 16:51:18 -0500
Organization: A noiseless patient Spider
Lines: 169
Message-ID: <khdmea$vkr$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me> <kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-email.me> <kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me> <kh8pgv$nob$1@dont-email.me> <kha9e1$9qt$1@dont-email.me> <khb3cn$d6m$1@dont-email.me> <khdh9v$2bb$1@dont-email.me> <khdkkd$m34$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Fri, 8 Mar 2013 21:50:03 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-host="77dcc5488ac2f0819315036b551cc948";
     logging-data="32411"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+D3IWfhx4sBLvsTuataLI2"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/12.0.1
In-Reply-To: <khdkkd$m34$1@dont-email.me>
Cancel-Lock: sha1:lETvTtTAm37gHGhpXf8N5hUnKLU=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 3/8/2013 4:20 PM, Tim Williams wrote:
>
> It may sound like hyperbole, but it's mathematically sound. The midpoint
> theorem, for example, guarantees that, between two points, you must've hit
> some point inbetween, somewhere, as long as the function is continuous.
> More usefully, functions arising in electronics are often one-to-one, so
> it's not only true that you are guaranteed midpoints, but you'll find them
> in order, too.
>
> If you aren't looking at the extreme cases, you aren't doing your job.
> Whatever's left inbetween can simply be interpolated!

>
> The point here being, an antenna which doesn't couple into free space obviously has a crappy SNR. The signal level can be anything, it doesn't matter. The signal need not be small, because internal losses generate thermal noise. With sufficient Q, you can push that thermal noise up to your receiver threshold (which you said is an ADC) and detect signal. It'll be bandlimited, ~60kHz noise, a useless signal, but present nonetheless.
>
> In general, antennas which do couple strongly to free space have low Qs. A 1/2 wave resonant dipole has a Q of only 1 or 2, so bothering to call it resonant is actually kind of weak. This is similarly true for a large loop, which of course would be highly impractical here. So there must be some middle case where SNR is reasonably unaffected, which will be the best choice antenna.

I was warned a long time ago to be wary of people speaking in "glittering generalities". You seem to insist on using terms without giving a mathematical basis. How about if we use some math?

V = (2 * pi * A * N * E * cos(theta)) / lambda

V is the voltage on the antenna,
A is the loop area,
N is the number of turns,
E is the field strength,
theta is the rotation angle of the antenna and the transmitter (just consider this term to be 1,
lamba is the wavelength (c/f)

This is multiplied by the Q factor when resonated by a capacitor. So higher Q, higher signal.

Where in here do you think I am having a problem?

> Since atmospheric noise dominates, the antenna can stand to be pretty small.

You are making assumptions that don't hold true in my design.

>>> Raw volts don't matter, you can always throw more amplifiers at it (as long as they don't corrupt the SNR also!).
>>
>> Maybe you didn't read my other posts. I am not using an amplifier. I am running the antenna and coupler output directly into a digital input.
>
> You hadn't mentioned that before...

You didn't ask.

>> The receiver input is high impedance, approximately 10 MOhms with a low
>> capacitance between the differential inputs of not more than 10 pF.
>
> Any ESR? Example, the ATmega series 10 bit ADC specifies, I think, around
> 10pF + 10k ESR (somewhat depending on how many mux switches it's going
> through to get there).

FET input resistance. I will double check that though.

>> Your description of what is happening is very terse and full of
>> shortened terms that I don't understand.
>
> I could write a book on the subject to explore it in detail, but there are
> many available already, and there are too many holes in my knowledge to
> really be worth it, plus this is Usenet, you get what you pay for. I was
> hoping you'd Google in the blanks.

I thought I was doing well, but you seem to be telling me I am making
mistakes, but I can't figure out what they might be.

>>   What do you mean "line up that
>> 10p resonance with the operating frequency"? I assume you are referring
>> to the 10 pF input capacitance. How does this get "lined up" with
>> anything?
>
> There's yet another theorem in networks that has to do with matching.
>
> A resonant tank's impedance varies wildly with frequency. But it will
> always be resistive at resonance. If you connect this to another network,
> which has a resistive input impedance at the same frequency, you don't
> care what the L and C are, it will simply work -- old fashioned resistor
> divider action!
>
> You *do* have to worry about L and C and reactance and bandwidth to solve
> for the frequency response and stuff, but you can at least approximate
> that with Q factor (i.e., how much loss is draining power out of the
> system).
>
> So if your ADC input is exactly 10p + 10M, you could resonate it with 0.7H
> (well...), which has a resonant impedance of 264k, and thus a reasonable Q
> of 38. (The real world typically bitchslaps the theorist at this point,
> as 0.7H chokes with<10pF parasitic capacitance and Q> 38 at 60kHz don't
> exist.) If the capacitance's ESR is less than 6.9kohms (i.e., 264k / 38),
> it won't have significant effect.
>
> You can couple to this tank via parallel or series. If you did series,
> the input impedance would be 264k / 38, or 6.9k, not horrible; going from
> the 0.78 ohm loop to this in a single transformer requires a 1:100 CT,
> which works fine at 60kHz. (This CT would require high inductance, so as
> to avoid skewing results, but that's typical of a CT. An amorphous core
> CT would probably suffice. So at least that part is physically

> realizable.) Note the irony of coupling a current loop to a current loop,
> where in both cases, the CT looks like a small impedance relative to the
> loop it's within. That's simply how huge the impedance at the ADC is.
>
> Since all these resistances are matched, the power transfer theorem holds,
> and you're pushing as much voltage and power into the ADC as possible.
> The bandwidth is about 1.6kHz, so the thermal noise floor is around 5uV at
> the ADC. A received power of 1nW will generate 0.1V, which is probably a
> reasonable figure. The SNR of the receiver is limited by quantization
> noise for<14 bits, thermal for>14 bits. A 16 bit converter wouldn't be
> too expensive at this sample rate (note it's the analog sample-and-hold
> speed which limits direct conversion performance; a sigma-delta, running
> at 100Hz, with no S&H, won't see jack).
>
>> When you talk about reactances canceling, that sounds a lot like a tuned
>> circuit at resonance. That is what I *am* doing and where this thread
>> started. One problem with that is the lack of precision or stability of
>> the parasitic capacitance. Any idea how to deal with that?
>
> Considering theoretical 0.7H chokes aren't commercially available, you
> might swamp it with more C, which stabilizes the value, and requires less
> L to resonate. Rub: resonant impedance is lower, so the Q of the
> components must be higher in order to achieve the same performance. Even
> with a Q of 200, you still need over 0.25H, which is just as unlikely a
> combination. Well, if you really wanted to try, maybe a gapped
> ferrite-cored inductor could be made. Still, the only practical choice
> seems to be lower signal level.
>
> So ultimately, the question is, how little signal can you tolerate before
> you need an amplifier? How many bits of conversion, how much sample rate
> can you afford before a linear amplifier becomes cheaper on the power
> budget?
>
>> Have you looked at the simulation data I had posted? I think you are
>> describing exactly the circuit we are simulating which I believe is an
>> accurate representation of the circuit I plan to build. Is that not
>> correct?
>
> It's getting closer, but with adjustments (to the transformer inductance)
> to make the resonances line up (same frequencies). Plus whatever
> compromise you need to make on gain.

We are still having communications difficulties. You keep talking in
terms I can't relate to. I don't need you to write a book, but I do
need you to communicate clearly.

I am using a 1 bit ADC. Don't assume that I am doing what you have done
in the past.

--

Rick

From 1340274106048487657
X-Google-Thread: 241b302a50,762eee5527cecaca,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.224.72.199 with SMTP id n7mr3140142qaj.5.1365850933126;
        Sat, 13 Apr 2013 04:02:13 -0700 (PDT)
MIME-Version: 1.0
Path: ef9ni34324qab.0!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 13 Apr 2013 06:02:12 -0500
From: vu2nan <vu2nan.baef0b0@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: An adjustable RF Ammeter
Date: Sat, 13 Apr 2013 11:29:51 +0100
Message-ID: <vu2nan.baef0b0@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
Lines: 15
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Op1lqcmN3q1YOr7qWKn6OrZzF53Il0nF6Kg0JUQ/0bjkY5KrHWou3BHY/
NjDpgP2fZODeK1sSehJA9f!tjZ9CP2ISbTsUVRcwFj0NcGJk5W/
UHbKZgzYbDCrbOToXQ4ihf6kvYKU7bL1xDIgZwZ1RCm6SYjU!yTY=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1124
X-Original-Lines: 9
X-Original-Bytes: 1041

Do check this out.

http://nandustips.blogspot.in/2013/04/an-adjustable-rf-ammeter.html

Many thanks.

73,

Nandu.

--
vu2nan

From 7221341963962960036
X-Google-Thread: 241b302a50,3a14e0bd863206e6,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.83.104 with SMTP id p8mr906706pby.0.1366254178842;
        Wed, 17 Apr 2013 20:02:58 -0700 (PDT)
MIME-Version: 1.0
Path: bp1ni1268pbd.1!nntp.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news.astraweb.com!
border2.newsrouter.astraweb.com!newspeer1.nac.net!newsfeed.xs4all.nl!
newsfeed1.news.xs4all.nl!xs4all!border4.nntp.ams.giganews.com!
border2.nntp.ams.giganews.com!border3.nntp.ams.giganews.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!news.nobody.at!feeder.erje.net!
eu.feeder.erje.net!newsfeed.datemas.de!rt.uk.eu.org!aioe.org!.POSTED!not-for-mail
From: "garyr" <garyr@fidalgo.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: RF switches
Date: Sun, 14 Apr 2013 13:01:15 -0700
Organization: Aioe.org NNTP Server
Lines: 18
Message-ID: <kkf2bi$uf5$1@speranza.aioe.org>
NNTP-Posting-Host: uneFADFjy9wkKUTARdbrGQ.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
X-Notice: Filtered by postfilter v. 0.8.2
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-Priority: 3
X-MSMail-Priority: Normal
X-Received-Bytes: 1618

I'm trying to build a 80/40 meter receiver and I'd like to be able to switch the RF input between the two bandpass filters. This sort of thing is usually done with relays but I'd like to avoid that if possible. A SN74CBT3306 would be ideal but I think the on-resistance would be too high, thought it's hard to tell from the data sheet. Are there other devices that would be suitable for this application? What do you think about using 2N7000's for this job?

The input and output capacitors of the double-tuned filters are 2200 & 2700 pF so the stray capacitance of the switching circuitry would not affect the response very much.

Thanks in advance

```
From -7191945928433659530
X-Google-Thread: 241b302a50,3a14e0bd863206e6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.10.230 with SMTP id l6mr6627420wib.3.1366254185041;
        Wed, 17 Apr 2013 20:03:05 -0700 (PDT)
Path: hg5ni15510wib.1!nntp.google.com!feeder1.cambriumusenet.nl!
82.197.223.108.MISMATCH!feeder2.cambriumusenet.nl!feed.tweaknews.nl!
216.196.110.142.MISMATCH!border3.nntp.ams.giganews.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!news.nobody.at!de-l.enfer-du-
nord.net!feeder1.enfer-du-nord.net!cs.uu.nl!news0.firedrake.org!news.xcski.com!
ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RF switches
Date: Sun, 14 Apr 2013 19:42:45 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 35
Sender: et472@bas1-montreal43-2925385370.dsl.bell.ca
Message-ID: <alpine.LNX.2.02.1304141938310.20313@darkstar.example.org>
References: <kkf2bi$uf5$1@speranza.aioe.org>
NNTP-Posting-Host: bas1-montreal43-2925385370.dsl.bell.ca
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1365982921 14642 174.93.214.154 (14 Apr 2013 23:42:01 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 14 Apr 2013 23:42:01 GMT
In-Reply-To: <kkf2bi$uf5$1@speranza.aioe.org>
User-Agent: Alpine 2.02 (LNX 1266 2009-07-14)
Bytes: 2721
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

On Sun, 14 Apr 2013, garyr wrote:

> I'm trying to build a 80/40 meter receiver and I'd like to be able to
> switch the RF input between the two bandpass filters. This sort of thing is
> usually done with relays but I'd like to avoid that if possible. A
> SN74CBT3306 would be ideal but I think the on-resistance would be too high,
> thought it's hard to tell from the data sheet. Are there other devices that
> would be suitable for this application? What do you think about using
> 2N7000's for this job?
>
> The input and output capacitors of the double-tuned filters are 2200 & 2700
> pF so the stray capacitance of the switching circuitry would not affect the
> response very much.
>
> Thanks in advance
>
I don't recall every seeing CMOS switches used for switching  LC cicuits.
Maybe for switching stages, but I can't think of an example of that.

If it's not a switch, which has the disadvantage of not being close to
where the circuit needs switching, it's a relay.  If it's not a relay,
```

then switching diodes are called in. Lots of people were using small signal diodes for switching in the early days, then PIN diodes came along they got the glory. The one issue seems that under some circumstances, they can add distortion.

In the very old days, the tuned circuits were plugged in, very troublesome but it avoided switches. Once semicondcutors came along, they were cheap and small enough that duplication often made sense, switch whole stages, including the tuned circuits, rather than switching the coils alone. That gives you more leeway, with active stages in there, any loss from CMOS switches goes way down.

    Michael VE2BVW

```
From -5107682967912676490
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.138.165 with SMTP id qr5mr2023108pbb.8.1362159547839;
        Fri, 01 Mar 2013 09:39:07 -0800 (PST)
Path: ov8ni25745pbb.1!nntp.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-
mail
NNTP-Posting-Date: Fri, 01 Mar 2013 11:39:07 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Antenna Simulation in LTspice
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <kgmhkd$rq3$1@dont-email.me>
User-Agent: Pan/0.133 (House of Butterflies)
MIME-Version: 1.0
Message-ID: <RdSdnf4Xl-8meq3MnZ2dnUVZ5qKdnZ2d@giganews.com>
Date: Fri, 01 Mar 2013 11:39:07 -0600
Lines: 48
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
viIpfJcXGaN9bb0thY0nFQW6tG6Drt6iWboAmwALxPqxJf8oV+kftnemQNbuEdGl9kRc5hQfg/aXvly!
wxPnVz6Ru+2zZXMbi15OBOZYInJtb7DhxJ9uPF7t4MopzZX/M5GDblgUX/D1r6pxc4iGxUdND49J
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 3591
X-Original-Bytes: 3530
X-Received-Bytes: 3671
Content-Type: text/plain; charset=UTF-8
```

Content-Transfer-Encoding: 8bit

On Wed, 27 Feb 2013 22:07:51 -0500, rickman wrote:

> I am working on a simulation for a loop antenna in LTspice and I can't
> figure out why the signal strength features are what they are. The
> model uses a pair of loosely coupled inductors to model the transmitter
> and antenna loop with a separate pair of tightly coupled inductors to
> model the coupling transformer. A cap on the primary circuit is the
> tuning cap and a cap on the secondary is parasitic effects of the
> circuit board leading to the inputs on the IC.
>
> There is a resonance near the frequency I would expect, but it is not so
> close actually. I can't figure why it is about 5% off. There is a
> second resonance fairly high up that I can't figure at all. None of the
> component values seem to combine appropriately to produce this peak.
> When looking at the tuning capacitor voltage there is an anti-resonance
> that is exactly at the frequency corresponding to the secondary
> resonance with the transformer and the parasitic capacitance. That
> makes sense to me, but it is pretty much the only part that jibes with
> what I can figure out.
>
> I have uploaded a zip file with the schematic and a measurement file.
>
> http://arius.com/temp/Antenna_trans_LTspice.zip

Re-read what Tim Williams said.

A way to translate what he's saying into your simulation is to include the radiation resistance of the antenna into your simulation, and reduce the coupling -- 1e-6 is probably good enough. I am, frankly, not sure where this is best put in your radiation resistance, but just increasing the series resistance on L3 is probably sufficient; putting it in as a parallel resistance in L3 is probably more accurate, but would be more useful as a way of separating the radiation resistance effect from the winding resistance of L3 (which is, I assume, where your figure comes from).

Do you have the ability to measure the Q of your antenna as built, and compare it to the Q calculated from the known L, C, and winding resistance? That should give you a good estimate of the radiation resistance, or at least radiation resistance + other losses.

--
My liberal friends think I'm a conservative kook.
My conservative friends think I'm a liberal kook.
Why am I not happy that they have found common ground?

Tim Wescott, Communications, Control, Circuits & Software
http://www.wescottdesign.com

From -2066316517345126455

```
X-Google-Thread: 241b302a50,3a14e0bd863206e6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.15.107.200 with SMTP id cb48mr11043524eeb.4.1366254157321;
        Wed, 17 Apr 2013 20:02:37 -0700 (PDT)
Path: hg5ni15503wib.1!nntp.google.com!feeder1.cambriumusenet.nl!
82.197.223.103.MISMATCH!feeder3.cambriumusenet.nl!82.197.223.108.MISMATCH!
feeder2.cambriumusenet.nl!feed.tweaknews.nl!85.12.40.138.MISMATCH!xlned.com!
feeder5.xlned.com!news.astraweb.com!border6.a.newsrouter.astraweb.com!
border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!
border3.nntp.ams.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!
news.nobody.at!feeder.erje.net!us.feeder.erje.net!news.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-07.dc1.easynews.com.POSTED!not-for-mail
From: Arid ace <nonsmoker@freedom.smokes.oil>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RF switches
Message-ID: <pnpmm8d30s1qge5ro50hkidq48btpndg2p@4ax.com>
References: <kkf2bi$uf5$1@speranza.aioe.org>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Lines: 26
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Sun, 14 Apr 2013 21:54:26 -0500
X-Received-Bytes: 2087
Bytes: 2261
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
```

On Sun, 14 Apr 2013 13:01:15 -0700, "garyr" <garyr@fidalgo.net> wrote:

>I'm trying to build a 80/40 meter receiver and I'd like to be able to switch the RF input between the two bandpass filters. This sort of thing is usually done with relays but I'd like to avoid that if possible. A SN74CBT3306 would be ideal but I think the on-resistance would be too high, thought it's hard to tell from the data sheet. Are there other devices that would be suitable for this application? What do you think about using 2N7000's for this job?
>
>The input and output capacitors of the double-tuned filters are 2200 & 2700 pF so the stray capacitance of the switching circuitry would not affect the response very much.
>
>Thanks in advance

In receivers like for instance those of ICOM (R71 etc.) and Kenwood (R1000 etc.), the input and IF bandpass filters were switched with diodes (N4148 or equivalent). With a current of ~10 mA through a diode this works rather well, regarding both IM and loss. But because at that time circuits weren't simulated, it was overlooked that due to the diode capacitance, filters supposed to be switched out, still exerted (often a nasty) influence. To eliminate that, you'll also have to use a diode switch as a short circuit for the filter not in use.

Jan

```
From 9072329205484620291
X-Google-Thread: 241b302a50,3a14e0bd863206e6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
X-Received: by 10.224.58.77 with SMTP id f13mr6726159qah.7.1366254195354;
        Wed, 17 Apr 2013 20:03:15 -0700 (PDT)
MIME-Version: 1.0
Path: ef9ni3205qab.0!nntp.google.com!border1.nntp.dca.giganews.com!
border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!
border2.nntp.ams.giganews.com!border3.nntp.ams.giganews.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!news.nobody.at!feeder.erje.net!
us.feeder.erje.net!news.glorb.com!news.netfront.net!not-for-mail
From: "bilou" <padepub@free.fr>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RF switches
Date: Mon, 15 Apr 2013 12:23:18 +0200
Organization: Netfront http://www.netfront.net/
Lines: 33
Message-ID: <kkgk9k$maq$1@adenine.netfront.net>
References: <kkf2bi$uf5$1@speranza.aioe.org>
NNTP-Posting-Host: 89.170.90.172
X-Trace: adenine.netfront.net 1366021237 22874 89.170.90.172 (15 Apr 2013 10:20:37
GMT)
X-Complaints-To: news@netfront.net
NNTP-Posting-Date: Mon, 15 Apr 2013 10:20:37 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6090
X-RFC2646: Format=Flowed; Response
Bytes: 2183
```

"garyr" <garyr@fidalgo.net> wrote in message
news:kkf2bi$uf5$1@speranza.aioe.org...
> I'm trying to build a 80/40 meter receiver and I'd like to be able to
> switch the RF input between the two bandpass filters. This sort of thing
> is
> usually done with relays but I'd like to avoid that if possible. A
> SN74CBT3306 would be ideal but I think the on-resistance would be too
> high,
> thought it's hard to tell from the data sheet. Are there other devices
> that
> would be suitable for this application? What do you think about using

> 2N7000's for this job?
>
> The input and output capacitors of the double-tuned filters are 2200 &
> 2700
> pF so the stray capacitance of the switching circuitry would not affect
> the
> response very much.
>
> Thanks in advance

Hello
IMHO diodes switches are by far the way to go.
They have been used for years in TV tuners at UHF frequencies.
They are very small and allow to place the switch exactly where it should
be.
They can support power as in TX/RX or att�nuator swithes.
Cmos IC's are used too in some SDR receivers but having to bring RF tracks
to a small SMD implies stray capacitance and inductance problems.

--- news://freenews.netfront.net/ - complaints: news@netfront.net ---

From 2374897867480823264
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.69.3.161 with SMTP id bx1mr4734258pbd.1.1362897077433;
        Sat, 09 Mar 2013 22:31:17 -0800 (PST)
Path: q9ni7827pba.1!nntp.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.supernews.com!
news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 10 Mar 2013 00:31:16 -0600
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Sat, 09 Mar 2013 22:32:18 -0800
Message-ID: <ma7oj855l31sc54nsbr3uqo8k0pa2um68j@4ax.com>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
<kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-email.me> <kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me>
<kh9eo7$691$1@dont-email.me> <kha8a5$3db$1@dont-email.me> <khak7j$cfa$1@dont-email.me> <khal6r$hni$1@dont-email.me>
<e4qhj85s8tuj4ja3jrnfe0ldss62q6pfbu@4ax.com> <khdha1$2bb$2@dont-email.me>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Lines: 96
X-Trace: sv3-G5mlcSlOW3eeSkmWJdseGt1qpqiKdg1SuARP3M/lcNQUXAutX/
8dIvHf5ZUByqW2BXzImxsAvOQR+Mx!r281ztN9LLOw5Okh1MmFedUNH3/

bU0KAlaMcibS4SCYnUuEKpNgbqUjX+77AJWvr+006tQLO5MSZ!H0Pl1Q==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Bytes: 5703
X-Original-Bytes: 5642
X-Received-Bytes: 5783
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Fri, 08 Mar 2013 13:44:36 -0500, rickman <gnuarm@gmail.com> wrote:

>I am at the fringe of
>the 100 uV/m contour. I would very much like to see the signal on an
>oscilloscope when I test this.

I built a passive 60KHz bandpass filters out of a collection of
ferrite cores from an old modem front end. I left it at a previous
consulting job, but can resurrect the design if necessary.
Incidentally, during my limited testing at home, I found that the
biggest determent to decent reception was all the switching power
supply noise found around the house. I finally ended up using a
battery power oscilloscope
<http://802.11junk.com/jeffl/pics/drivel/slides/tek213.html>
a gel cell for powering the RF amp, and turning off the main power to
the house. Then, I could sorta see a signal.

>They have a receiver not far from here
>in Gaithersburg, MD and the signal is often strong during the day. So
>much so that I don't follow why they say there is this day/night signal
>strength fluctuation. It looks much more random to me.

<http://tf.nist.gov/tf-cgi/wwvbgraph_e.cgi?5636103007>
Very random. Compare the above graph with Santa Clara which looks
less random:
<http://tf.nist.gov/tf-cgi/wwvbgraph_e.cgi?5636105007>

On the east coast, besides a weak signal, you also have the potential
for 60KHz interference from the UK:
<http://en.wikipedia.org/wiki/MSF_time_signal>

I had a 100KHz LORAN antenna on the roof of a former employer. The
signal was just fine, until someone turned on the mercury vapor arc
parking lot lamps at night. They were changed to low pressure sodium,
which made testing possible at night.

Incidentally, got any clue as to the vertical scale? My guess(tm) is
20 uv/meter signal strength per division, but I'm not sure.

>The WWVB signal is not truly on-off keying. I believe they use a 10 dB

>modulation factor for the AM signal. This is close to on-off I agree.

It's now 17dB drop at the beginning of each UTC second. The change
came in about 2008.

>But they also phase modulate the signal and I will be demodulating both
>to see which one works best in my design.

The BPSK signal is much better at rejecting interference and digging
the signal out of the noise. I don't know exactly how much, but I'm
sure it's in a NIST publication somewhere.

>The ADC in my design is truly one bit. It is an LVDS input on an FPGA.
> I looked at delta-sigma (or is it sigma-delta? ;)

It's delta-sigma.

>The loop antenna is rather large. I would like to end up with something
>smaller. Once I get this working with a shielded loop antenna I will
>check out the ferrite core antennas. My understanding is that they
>don't produce as much signal.

Not exactly. Small loopsticks receive a proportional amount of noise.
The ratio of signal to atmospheric noise remains roughly the same
within a fixed bandwidth for any antenna. That's why tiny little
loopsticks, inside "atomic time" wristwatches work. The small
loopsticks also use the magnetic field instead of the electric field,
which is why they can be made so small.
<http://en.wikipedia.org/wiki/Loop_antenna#Small_loops>

>> As for bandwidth, the code is sent at 1 baud (1 bit/sec) which
>> produces about a 2Hz occupied bandwidth. Therefore, the maximum Q of
>> the antenna would need to be:
>>   60Khz/ 2Hz = 30,000
>> before the antenna bandwidth becomes a problem.
>
>I'm not sure how you came up with 2 Hz for the bandwidth. In this case
>the bandwidth is not just twice the bit rate. I believe the stated
>"system" bandwidth is around 5 Hz (from a 1995 paper prior to addition
>of the phase modulation).

Ok, I made a bad guess(tm). Even at 5Hz BW, the maximum Q of
   60KHz / 5Hz = 12,000
is not going to happen in a loop or loopstick antenna.

>Even so, that is not the limiting factor. The limiting factor is the
>difficulty in holding tune with drift in passive component values.

Agreed.

--
Jeff Liebermann   jeffl@cruzio.com

150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

```
From -6158259905143976343
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.106.161 with SMTP id gv1mr1546225wib.4.1362949806055;
        Sun, 10 Mar 2013 14:10:06 -0700 (PDT)
Path: g1ni57632wig.0!nntp.google.com!fu-berlin.de!news.szaf.org!eternal-
september.org!feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-
for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Sun, 10 Mar 2013 17:09:45 -0400
Organization: A noiseless patient Spider
Lines: 129
Message-ID: <khisod$ljr$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
<kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-
email.me> <kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me>
<kh9eo7$691$1@dont-email.me> <kha8a5$3db$1@dont-email.me> <khak7j$cfa$1@dont-
email.me> <khal6r$hni$1@dont-email.me>
<e4qhj85s8tuj4ja3jrnfe0ldss62q6pfbu@4ax.com> <khdha1$2bb$2@dont-email.me>
<ma7oj855l31sc54nsbr3uqo8k0pa2um68j@4ax.com>
Mime-Version: 1.0
Injection-Date: Sun, 10 Mar 2013 21:08:30 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-
host="a7b0764e5221959c69a436d351334f5c";
     logging-data="22139"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/LSzwS4XDOwqMPIxPuBlj7"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
In-Reply-To: <ma7oj855l31sc54nsbr3uqo8k0pa2um68j@4ax.com>
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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 3/10/2013 1:32 AM, Jeff Liebermann wrote:

> On Fri, 08 Mar 2013 13:44:36 -0500, rickman<gnuarm@gmail.com> wrote:
>
>> I am at the fringe of
>> the 100 uV/m contour. I would very much like to see the signal on an
>> oscilloscope when I test this.
>
> I built a passive 60KHz bandpass filters out of a collection of
> ferrite cores from an old modem front end. I left it at a previous
> consulting job, but can resurrect the design if necessary.

> Incidentally, during my limited testing at home, I found that the
> biggest determent to decent reception was all the switching power
> supply noise found around the house. I finally ended up using a
> battery power oscilloscope
> <http://802.11junk.com/jeffl/pics/drivel/slides/tek213.html>
> a gel cell for powering the RF amp, and turning off the main power to
> the house. Then, I could sorta see a signal.

Holy crap! That's a lot of trouble to see a signal. By "see" I assume
you mean on the scope. How large was the signal?

The place where I am working currently is not very close to much and
there isn't much in the house. I'm told the fridge is the biggest
source of noise. We'll see how the CFL lamps do.

Funny, last night my two RCC's both updated like they should. One is an
analog clock and runs at 8x speed to get the hour ahead. In the fall it
does this to go 11 hours ahead. Quite a sight! They both did the job,
but my PC didn't update until it had been on for awhile, without being
connected to the I'net.

>> They have a receiver not far from here
>> in Gaithersburg, MD and the signal is often strong during the day. So
>> much so that I don't follow why they say there is this day/night signal
>> strength fluctuation. It looks much more random to me.
>
> <http://tf.nist.gov/tf-cgi/wwvbgraph_e.cgi?5636103007>
> Very random. Compare the above graph with Santa Clara which looks
> less random:
> <http://tf.nist.gov/tf-cgi/wwvbgraph_e.cgi?5636105007>
>
> On the east coast, besides a weak signal, you also have the potential
> for 60KHz interference from the UK:
> <http://en.wikipedia.org/wiki/MSF_time_signal>

Loop antennas have a null that can be steered toward the source of
interference. I expect that will solve that problem...

> I had a 100KHz LORAN antenna on the roof of a former employer. The
> signal was just fine, until someone turned on the mercury vapor arc
> parking lot lamps at night. They were changed to low pressure sodium,
> which made testing possible at night.
>
> Incidentally, got any clue as to the vertical scale? My guess(tm) is
> 20 uv/meter signal strength per division, but I'm not sure.
>
>> The WWVB signal is not truly on-off keying. I believe they use a 10 dB
>> modulation factor for the AM signal. This is close to on-off I agree.
>
> It's now 17dB drop at the beginning of each UTC second. The change
> came in about 2008.

>
>> But they also phase modulate the signal and I will be demodulating both
>> to see which one works best in my design.
>
> The BPSK signal is much better at rejecting interference and digging
> the signal out of the noise. I don't know exactly how much, but I'm
> sure it's in a NIST publication somewhere.

That's for an ideal receiver. I have my limitations and I have no idea
how that will impact the reception.

>> The ADC in my design is truly one bit. It is an LVDS input on an FPGA.
>>   I looked at delta-sigma (or is it sigma-delta? ;)
>
> It's delta-sigma.

Actually I always say that with a smiley as it can be either.

>> The loop antenna is rather large. I would like to end up with something
>> smaller. Once I get this working with a shielded loop antenna I will
>> check out the ferrite core antennas. My understanding is that they
>> don't produce as much signal.
>
> Not exactly. Small loopsticks receive a proportional amount of noise.
> The ratio of signal to atmospheric noise remains roughly the same
> within a fixed bandwidth for any antenna. That's why tiny little
> loopsticks, inside "atomic time" wristwatches work. The small
> loopsticks also use the magnetic field instead of the electric field,
> which is why they can be made so small.
> <http://en.wikipedia.org/wiki/Loop_antenna#Small_loops>

In my case I am not worried that the SNR isn't better, I just need a
strong enough signal to drive the LVDS input. I will be providing
feedback to eliminate any DC bias, but even that will only be so good.
The input is claimed to have no hysteresis, but even a tiny amount can
ruin this design. I will only know if this will work when I try it.

>>> As for bandwidth, the code is sent at 1 baud (1 bit/sec) which
>>> produces about a 2Hz occupied bandwidth. Therefore, the maximum Q of
>>> the antenna would need to be:
>>>   60Khz/ 2Hz = 30,000
>>> before the antenna bandwidth becomes a problem.
>>
>> I'm not sure how you came up with 2 Hz for the bandwidth. In this case
>> the bandwidth is not just twice the bit rate. I believe the stated
>> "system" bandwidth is around 5 Hz (from a 1995 paper prior to addition
>> of the phase modulation).
>
> Ok, I made a bad guess(tm). Even at 5Hz BW, the maximum Q of
>   60KHz / 5Hz = 12,000

```
> is not going to happen in a loop or loopstick antenna.
>
>> Even so, that is not the limiting factor.  The limiting factor is the
>> difficulty in holding tune with drift in passive component values.
>
> Agreed.
>
>
```

--

Rick

```
From 3359981710118833646
X-Google-Thread: 112d1e,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.234.202 with SMTP id ug10mr6600998pbc.6.1362965109967;
        Sun, 10 Mar 2013 18:25:09 -0700 (PDT)
Path: jm3ni43546pbb.0!nntp.google.com!news.glorb.com!news.astraweb.com!
border6.newsrouter.astraweb.com!not-for-mail
From: Jim Mueller <wrongname@nospam.com>
Subject: Re: Antenna Simulation in LTspice
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
     <kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me>
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     <kh83nl$uqo$1@dont-email.me> <kh8pgv$nob$1@dont-email.me>
     <kha9e1$9qt$1@dont-email.me>
     <5139584d$0$54952$c3e8da3$e408f015@news.astraweb.com>
     <khdkgg$lbg$1@dont-email.me> <khdl8n$pf9$1@dont-email.me>
     <khdmfh$vkr$2@dont-email.me>
User-Agent: Pan/0.136 (I'm far too busy being delicious; GIT 926a150
     git://git.gnome.org/pan2)
MIME-Version: 1.0
Date: 11 Mar 2013 01:25:09 GMT
Lines: 76
Message-ID: <513d3275$0$7262$c3e8da3$b1356c67@news.astraweb.com>
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: eb2beebf.news.astraweb.com
X-Trace: DXC=G4Sj5gFJf]H5\iVS6:P;:IL?
0kYOcDh@Jh]1ZCP@b\XF>3<:Wm\C]QO^1JaZ>c_`GKE[h]U\A5f<Jl0U8<Z0i^IBdEl_oD8P4EMU6^DRb;
TR8@
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
```

On Fri, 08 Mar 2013 16:51:57 -0500, rickman wrote:

```
> On 3/8/2013 4:30 PM, Tim Williams wrote:
>> "rickman"<gnuarm@gmail.com>  wrote in message
>> news:khdkgg$lbg$1@dont-email.me...
>>> Is this a current transformer or a voltage transformer?
>>>      .--------.  .--------.
>>>      |        |  |        |
>>>      |        C||C>
>>>     VAC       C||C>   Load
>>>      |        C||C>
>>>      |        |  |        |
>>>      `--------'  `--------'
>>
>> Voltage.  How about this?
>>
>>>      .--------.  .--------.
>>>      |        |  |        |
>>>      |        C||C>
>>>     IAC       C||C>   Load
>>>      |        C||C>
>>>      |        |  |        |
>>>      `--------'  `--------'
>>
>> Tim
>>
>>
> I have to say I don't follow the distinction.  It is a transformer, no?
```

The second one is a current transformer. They both consist of coils around a magnetic core driving some kind of load. The difference is the source of power and that causes them to behave very differently as well as being constructed differently.

Let's assume ideal components (a good place to start when learning a new concept). The voltage transformer is driven by a source that provides a constant voltage, no matter what the load. The transformer takes this voltage and converts it to some other voltage depending on the turns ratio; Vout = Vin * Ts / Tp. For example, if the primary has 100 turns and the secondary has 20 turns and the primary is supplied with 50 volts, the secondary will provide 10 volts. As the secondary load changes, this voltage remains the same but the current changes. If the secondary is open-circuited, the voltage still stays the same. If the secondary is short-circuited, the current becomes infinite; that's why real voltage transformers are protected by fuses or similar devices.

Now for the current transformer, it is driven by a source that provides a constant current no matter what the load. The transformer takes this current and converts it to some other current depending on the turns ratio; Iout = Iin * Tp / Ts (note the inversion of the turns ratio). For example, if the primary has 1 turn (a common number for real transformers) and the secondary has 5 turns and the primary is supplied with 5 amps, the secondary will provide 1 amp. As the secondary load changes, this current remains the same but the voltage changes. If the secondary is short-circuited, the current still stays the same. If the secondary is open-circuited, the voltage becomes infinite; that's why real portable current transformers have a shorting switch on the secondary that the operator must close before disconnecting the load.

Also, note the difference in the number of turns, voltage transformers have a lot of turns and current transformers have few turns.

For a loop antenna with an external resonating capacitor, a voltage transformer would be connected in parallel with the loop and capacitor; all three in a parallel circuit. A current transformer would be connected in series with the antenna and capacitor so that the three form a series circuit. If the loop itself is used as the primary of the transformer and another winding is used as the secondary, the distinction between the two types is blurred. Also, a real antenna is neither a voltage source nor a current source but something in between.

--
Jim Mueller wrongname@nospam.com

To get my real email address, replace wrongname with dadoheadman.
Then replace nospam with fastmail. Lastly, replace com with us.

From -7526283851195185607
X-Google-Thread: 241b302a50,6e79a3cc99799aa3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.76.235 with SMTP id n11mr1278621wiw.0.1363393995359;
Fri, 15 Mar 2013 17:33:15 -0700 (PDT)
Path: g1ni68278wig.0!nntp.google.com!feeder1.cambriumusenet.nl!
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194.109.133.81.MISMATCH!newsfeed.xs4all.nl!newsfeed2.news.xs4all.nl!xs4all!
border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!
border3.nntp.ams.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!
multikabel.net!newsfeed20.multikabel.net!local2.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 10 Mar 2013 22:42:35 -0500
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Sun, 10 Mar 2013 20:42:49 -0700
Message-ID: <bjfqj8lcoqdtl2ufse5m51341ap6j1lt4i@4ax.com>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
<kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-email.me> <kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me>
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Lines: 112
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PA86gA==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 7028
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Sun, 10 Mar 2013 17:09:45 -0400, rickman <gnuarm@gmail.com> wrote:

>On 3/10/2013 1:32 AM, Jeff Liebermann wrote:

>Holy crap! That's a lot of trouble to see a signal. By "see" I assume
>you mean on the scope. How large was the signal?

Turning off the house was easier than finding the multiple sources of noise at 60KHz. What drove me nuts for about an hour was that much of the noise was coming from my bench oscilloscope. Argh.

This is typical. WWVH through an active preamp showing the effect of power line noise (probably from attached switching power supplies).
<http://www.prc68.com/I/Images/AMRAD110.GIF>
and after adding some better line filtering:
<http://www.prc68.com/I/Images/AMRAD_BT.GIF>
Main page:
<http://www.prc68.com/I/LF-Ant.shtml>

I didn't log the setup or take pictures. So, let's do the math and guesswork.
<http://vk1od.net/calc/FS2RPCalc.htm>
I plugged in some guesses and recollections as to what the antenna (Q=30) and amp (+20dB gain) were doing and got:
<http://802.11junk.com/jeffl/crud/WWVH-rx-signal-estimate.jpg>
-15.8dBm or about 36mv into 50 ohms. I amplified this about 20dB with two or three U310 JFET's (I forgot what I did) to about 3V rms on the scope. I didn't bother with the 50 ohm to scope input Z conversion. Most of what I saw was noise, noise, and more noise. However, if I was patient, I could see the data fade in an out. As I vaguely recall, it was less than 1 division or about 0.1v change.

>The place where I am working currently is not very close to much and
>there isn't much in the house. I'm told the fridge is the biggest
>source of noise. We'll see how the CFL lamps do.

Sigh. Most of what I found at 60KHz was coming from lightning storms over Florida. The local sources were all switching power supplies, including those in my test equipment. I didn't have an CFL or LED room lights at the time. I've recently found them to be a rather nasty noise source. Also, the switching power supply wall warts were rather awful. My standard test is to fire up my antique IC-735 HF xceiver, attach a long length of RG-58c/u to the antenna with a resonant loop at the end, tune it to 100KHz (as low as it will go), and sniff around the house.

What you'll see on a spectrum analyzer.
<http://www.prc68.com/I/Spec_0002.shtml>
If you're thinking of removing all that junk with a 5Hz wide digital filter in software, please note that you'll need to have the input A/D handle the total power of almost all that junk. Also, the amplifier that you're trying to avoid between the antenna and A/D will also need to be rather linear, and therefore rather high power, in order to avoid producing more spurious junk via intermodulation products.

>Funny, last night my two RCC's both updated like they should. One is an
>analog clock and runs at 8x speed to get the hour ahead. In the fall it
>does this to go 11 hours ahead. Quite a sight! They both did the job,
>but my PC didn't update until it had been on for awhile, without being
>connected to the I'net.

So that's how they change daylight savings time. If I had known, I would have stayed and watched. Thanks for the tip.

>> On the east coast, besides a weak signal, you also have the potential
>> for 60KHz interference from the UK:
>> <http://en.wikipedia.org/wiki/MSF_time_signal>
>
>Loop antennas have a null that can be steered toward the source of
>interference. I expect that will solve that problem...

The depth of the notch seems to be less as the antenna shrinks in size. I'm not sure about this as I haven't attempted to recently model a 60KHz magnetic loop with 4NEC2, but that's what my tinkering shows. If there were a deep notch, most of the home "atomic clock" receivers would be orientation sensitive and I would expect warnings in the docs.

>> The BPSK signal is much better at rejecting interference and digging
>> the signal out of the noise. I don't know exactly how much, but I'm
>> sure it's in a NIST publication somewhere.
>
>That's for an ideal receiver. I have my limitations and I have no idea
>how that will impact the reception.

Well, you have to start somewhere, and an ideal receiver is a good place to start. The advantage is that reality only makes everything worse, never better. You should be able to build the BPSK demodulator, and then use a PC to decode the data. I've seen several such programs that do not require I/Q outputs. Here's one based on

FreeBSD intended to sync the system clock to WWV/WWVH:
<http://docs.freebsd.org/doc/4.0-RELEASE/usr/share/doc/ntp/driver36.htm>
I'm sure there are others.

>In my case I am not worried that the SNR isn't better, I just need a
>strong enough signal to drive the LVDS input.

Gain at 60KHz is very cheap. Watch out for overload issues. If you design it to work at full scale with whatever you get at 50uV/m, and the signal climbs to 100uV/m, your input A/D isn't going to be very happy. AGC will help, but I don't think it will be needed if you calculate your signal levels so that the A/D input amp isn't clipping.

Out of service for a day. It seems that about 30 years of chemistry experiments has finally destroyed much of the kitchen sink plumbing. I hate plumbing.

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From 6663560292354451511
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.93.230 with SMTP id cx6mr2088542wib.5.1362995711692;
        Mon, 11 Mar 2013 02:55:11 -0700 (PDT)
MIME-Version: 1.0
Path: bp2ni85460wib.1!nntp.google.com!goblin2!goblin1!goblin.stu.neva.ru!
news.osn.de!diablo2.news.osn.de!news.tele.dk!news.tele.dk!small.news.tele.dk!
newsgate.cistron.nl!newsgate.news.xs4all.nl!post.news.xs4all.nl!not-for-mail
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Antenna Simulation in LTspice
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
 <kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me>
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 <kha8a5$3db$1@dont-email.me> <khak7j$cfa$1@dont-email.me>
 <khal6r$hni$1@dont-email.me> <e4qhj85s8tuj4ja3jrnfe0ldss62q6pfbu@4ax.com>
 <khdha1$2bb$2@dont-email.me> <ma7oj855l31sc54nsbr3uqo8k0pa2um68j@4ax.com>
 <khisod$ljr$1@dont-email.me>
User-Agent: slrn/pre1.0.0-18 (Linux)
Message-ID: <slrnkjraek.etc.nomail@xs8.xs4all.nl>
Date: 11 Mar 2013 09:54:28 GMT
Lines: 32
NNTP-Posting-Host: 2001:888:0:1::888
X-Trace: 1362995668 news.xs4all.nl 6933 [2001:888:0:1::888]:51791

X-Complaints-To: abuse@xs4all.nl

rickman <gnuarm@gmail.com> wrote:
> Funny, last night my two RCC's both updated like they should. One is an
> analog clock and runs at 8x speed to get the hour ahead. In the fall it
> does this to go 11 hours ahead. Quite a sight! They both did the job,
> but my PC didn't update until it had been on for awhile, without being
> connected to the I'net.

In Europe we have DCF-77 which is at 77.5 kHz.
The trouble receiving it is similar to WWVB.
I have several clocks in the house but some of them have only very
weak sync. Also, to save battery they only sync once every 12 hours
or so. At DST change, they may display the wrong time for a couple
of days, especially the one in the kitchen. I need to relocate it
to a place where I know there is better signal.

The problem is (harmonics of) switching power supplies here as well.
Once I had a big open-frame SMPS that I used to power my radio equipment
and that switched around 25 kHz. Under the right circumstances, the
3rd harmonic wiped away all DCF-77 receiving within 5 meters or so.
Old CRT computer monitors also were problematic.

I presume you have some specific needs, low power being among them,
to stay focussed on WWVB for your clock sync. Most computer users
would use GPS now, or simply sync via the internet. GPS has a different
receiving conditions problem, but at least it isn't so much affected
by prominently present local interference.

Of course a GPS receiver requires a lot more power than a WWVB receiver,
although this has come down over the years.   Using some sort of on/off
switching (syncing with the received time and then having it run free
for some time) may help a bit, the battery powered radio clocks do
that as well.

From 7090575582082468660
X-Google-Thread: 241b302a50,6e79a3cc99799aa3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
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X-Received: by 10.68.210.15 with SMTP id mq15mr3701412pbc.2.1363368389845;
        Fri, 15 Mar 2013 10:26:29 -0700 (PDT)
Path: jm3ni51694pbb.0!nntp.google.com!border1.nntp.dca.giganews.com!border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!novia!news-peer1!btnet!zen.net.uk!hamilton.zen.co.uk!xlned.com!feeder1.xlned.com!newsfeed.xs4all.nl!newsfeed1.news.xs4all.nl!xs4all!border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!border3.nntp.ams.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!multikabel.net!newsfeed20.multikabel.net!news.mi.ras.ru!goblin1!goblin.stu.neva.ru!eternal-september.org!feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>

```
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Mon, 11 Mar 2013 17:29:28 -0400
Organization: A noiseless patient Spider
Lines: 103
Message-ID: <khli9i$2r4$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
<kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-
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<kh8pgv$nob$1@dont-email.me> <kha9e1$9qt$1@dont-email.me>
<5139584d$0$54952$c3e8da3$e408f015@news.astraweb.com> <khdkgg$lbg$1@dont-email.me>
<khdl8n$pf9$1@dont-email.me> <khdmfh$vkr$2@dont-email.me>
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Injection-Info: mx05.eternal-september.org; posting-
host="d3d27bce6b0c980541322059a2377816";
     logging-data="2916"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX181VUHvj1Krf8xC9STjbxmp"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
In-Reply-To: <513d3275$0$7262$c3e8da3$b1356c67@news.astraweb.com>
Cancel-Lock: sha1:njr6aZ08K08JNU1jz4ReZyVxPJk=
Bytes: 6527
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit

On 3/10/2013 9:25 PM, Jim Mueller wrote:
> On Fri, 08 Mar 2013 16:51:57 -0500, rickman wrote:
>
>> On 3/8/2013 4:30 PM, Tim Williams wrote:
>>> "rickman"<gnuarm@gmail.com>   wrote in message
>>> news:khdkgg$lbg$1@dont-email.me...
>>>> Is this a current transformer or a voltage transformer?
>>>>       .--------.  .--------.
>>>>       |        |  |        |
>>>>       |        C||C>
>>>>      VAC       C||C>    Load
>>>>       |        C||C>
>>>>       |        |  |        |
>>>>       `--------'  `--------'
>>>
>>> Voltage.  How about this?
>>>
>>>>       .--------.  .--------.
>>>>       |        |  |        |
>>>>       |        C||C>
>>>>      IAC       C||C>    Load
>>>>       |        C||C>
>>>>       |        |  |        |
>>>>       `--------'  `--------'
>>>
```

>>> Tim
>>>
>>>
>> I have to say I don't follow the distinction. It is a transformer, no?
>
> The second one is a current transformer. They both consist of coils
> around a magnetic core driving some kind of load. The difference is the
> source of power and that causes them to behave very differently as well
> as being constructed differently.

I can't say I understand the distinction.

> Let's assume ideal components (a good place to start when learning a new
> concept). The voltage transformer is driven by a source that provides a
> constant voltage, no matter what the load. The transformer takes this
> voltage and converts it to some other voltage depending on the turns
> ratio; Vout = Vin * Ts / Tp. For example, if the primary has 100 turns
> and the secondary has 20 turns and the primary is supplied with 50 volts,
> the secondary will provide 10 volts. As the secondary load changes, this
> voltage remains the same but the current changes. If the secondary is
> open-circuited, the voltage still stays the same. If the secondary is
> short-circuited, the current becomes infinite; that's why real voltage
> transformers are protected by fuses or similar devices.

This is ok so far.

> Now for the current transformer, it is driven by a source that provides a
> constant current no matter what the load. The transformer takes this
> current and converts it to some other current depending on the turns
> ratio; Iout = Iin * Tp / Ts (note the inversion of the turns ratio).
> For example, if the primary has 1 turn (a common number for real
> transformers) and the secondary has 5 turns and the primary is supplied
> with 5 amps, the secondary will provide 1 amp. As the secondary load
> changes, this current remains the same but the voltage changes. If the
> secondary is short-circuited, the current still stays the same. If the
> secondary is open-circuited, the voltage becomes infinite; that's why
> real portable current transformers have a shorting switch on the
> secondary that the operator must close before disconnecting the load.

I don't follow how any of this has to do with a difference in the
transformers. Bth transformers obey both equations you have presented.
Both transformers change the voltage as well as the current, no?

> Also, note the difference in the number of turns, voltage transformers
> have a lot of turns and current transformers have few turns.

I don't see how this follows from what you have written. What is there
about these two transformers that define the number of turns? The
current transformers I am interested in using use 100 or 300 turns. Is
that a lot or just a few?

> For a loop antenna with an external resonating capacitor, a voltage
> transformer would be connected in parallel with the loop and capacitor;
> all three in a parallel circuit. A current transformer would be
> connected in series with the antenna and capacitor so that the three form
> a series circuit. If the loop itself is used as the primary of the
> transformer and another winding is used as the secondary, the distinction
> between the two types is blurred. Also, a real antenna is neither a
> voltage source nor a current source but something in between.

What I have gotten from this is that Tim's original usage of the terms implies how the transformer is connected to the antenna. As you say, a voltage transformer will be connected across the coil in parallel with the capacitor and a current transformer will be connected in series with the antenna and capacitor.

I was planning to use the antenna wire itself in the middle of the antenna loop as the primary of the transformer. So I guess that will be a current transformer. I may try a simulation to see just what happens with a parallel connection.

--

Rick

```
From 5979732345033451561
X-Google-Thread: 241b302a50,6e79a3cc99799aa3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
X-Received: by 10.68.129.38 with SMTP id nt6mr1621899pbb.8.1363368667386;
        Fri, 15 Mar 2013 10:31:07 -0700 (PDT)
Path: q9ni18407pba.1!nntp.google.com!border1.nntp.dca.giganews.com!border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!novia!news-peer1!btnet!zen.net.uk!hamilton.zen.co.uk!xlned.com!feeder5.xlned.com!newsfeed.xs4all.nl!newsfeed4.news.xs4all.nl!xs4all!border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!border3.nntp.ams.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!multikabel.net!newsfeed20.multikabel.net!news.mi.ras.ru!goblin1!goblin.stu.neva.ru!eternal-september.org!feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Mon, 11 Mar 2013 18:10:23 -0400
Organization: A noiseless patient Spider
Lines: 157
Message-ID: <khlkm1$f80$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
<kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-
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email.me> <khal6r$hni$1@dont-email.me>
<e4qhj85s8tuj4ja3jrnfe0ldss62q6pfbu@4ax.com> <khdha1$2bb$2@dont-email.me>
<ma7oj855l31sc54nsbr3uqo8k0pa2um68j@4ax.com> <khisod$ljr$1@dont-email.me>
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     logging-data="15616"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19qVj8lwVWPF2i0E8BikHY1"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
In-Reply-To: <bjfqj8lcoqdtl2ufse5m51341ap6j1lt4i@4ax.com>
Cancel-Lock: sha1:V0Zn1qX2OtpN+s9o+Z+uEJeKBX4=
Bytes: 9518
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
```

On 3/10/2013 11:42 PM, Jeff Liebermann wrote:
> On Sun, 10 Mar 2013 17:09:45 -0400, rickman<gnuarm@gmail.com> wrote:
>
>> On 3/10/2013 1:32 AM, Jeff Liebermann wrote:
>
>> Holy crap! That's a lot of trouble to see a signal. By "see" I assume
>> you mean on the scope. How large was the signal?
>
> Turning off the house was easier than finding the multiple sources of
> noise at 60KHz. What drove me nuts for about an hour was that much of
> the noise was coming from my bench oscilloscope. Argh.

Yes, like I said, not much in this house and there is not much near it. I have a laptop and my roommate (when he is here) uses one along with an iPhone. I suppose they might generate some noise, but he turns off his laptop at night I'm sure. Otherwise, there just isn't much in the house that isn't 10 or 15 years old. I have a car radio on a linear regulator and an electric shaver that sits charging (part of the time). Otherwise it should be pretty quiet electrically here.

> This is typical. WWVH through an active preamp showing the effect of
> power line noise (probably from attached switching power supplies).
> <http://www.prc68.com/I/Images/AMRAD110.GIF>
> and after adding some better line filtering:
> <http://www.prc68.com/I/Images/AMRAD_BT.GIF>
> Main page:
> <http://www.prc68.com/I/LF-Ant.shtml>
>
> I didn't log the setup or take pictures. So, let's do the math and
> guesswork.
> <http://vk1od.net/calc/FS2RPCalc.htm>
> I plugged in some guesses and recollections as to what the antenna

> (Q=30) and amp (+20dB gain) were doing and got:
> <http://802.11junk.com/jeffl/crud/WWVH-rx-signal-estimate.jpg>
> -15.8dBm or about 36mv into 50 ohms. I amplified this about 20dB with
> two or three U310 JFET's (I forgot what I did) to about 3V rms on the
> scope. I didn't bother with the 50 ohm to scope input Z conversion.
> Most of what I saw was noise, noise, and more noise. However, if I
> was patient, I could see the data fade in an out. As I vaguely
> recall, it was less than 1 division or about 0.1v change.

I'm not sure why you used 1900 meters for the distance. I also don't
get why you used 5 ohms for the receiver input impedance.

>> The place where I am working currently is not very close to much and
>> there isn't much in the house. I'm told the fridge is the biggest
>> source of noise. We'll see how the CFL lamps do.
>
> Sigh. Most of what I found at 60KHz was coming from lightning storms
> over Florida. The local sources were all switching power supplies,
> including those in my test equipment. I didn't have an CFL or LED
> room lights at the time. I've recently found them to be a rather
> nasty noise source. Also, the switching power supply wall warts were
> rather awful. My standard test is to fire up my antique IC-735 HF
> xceiver, attach a long length of RG-58c/u to the antenna with a
> resonant loop at the end, tune it to 100KHz (as low as it will go),
> and sniff around the house.

There's just not much of that in this house.

> What you'll see on a spectrum analyzer.
> <http://www.prc68.com/I/Spec_0002.shtml>
> If you're thinking of removing all that junk with a 5Hz wide digital
> filter in software, please note that you'll need to have the input A/D
> handle the total power of almost all that junk. Also, the amplifier
> that you're trying to avoid between the antenna and A/D will also need
> to be rather linear, and therefore rather high power, in order to
> avoid producing more spurious junk via intermodulation products.

What A/D? Oh, you mean the LVDS input. How do you saturate a 1 bit ADC?

>> Funny, last night my two RCC's both updated like they should. One is an
>> analog clock and runs at 8x speed to get the hour ahead. In the fall it
>> does this to go 11 hours ahead. Quite a sight! They both did the job,
>> but my PC didn't update until it had been on for awhile, without being
>> connected to the I'net.
>
> So that's how they change daylight savings time. If I had known, I
> would have stayed and watched. Thanks for the tip.
>
>>> On the east coast, besides a weak signal, you also have the potential
>>> for 60KHz interference from the UK:

>>> <http://en.wikipedia.org/wiki/MSF_time_signal>
>>
>> Loop antennas have a null that can be steered toward the source of
>> interference. I expect that will solve that problem...
>
> The depth of the notch seems to be less as the antenna shrinks in
> size. I'm not sure about this as I haven't attempted to recently
> model a 60KHz magnetic loop with 4NEC2, but that's what my tinkering
> shows. If there were a deep notch, most of the home "atomic clock"
> receivers would be orientation sensitive and I would expect warnings
> in the docs.

I wouldn't say the *depth* of the null depends on the size of the loop.
I think it is a null with a Q, much like a resonance peak, but a null
of course. The smaller the loop, the sharper the null like a high Q
resonance, so the orientation becomes very critical. In theory at
least, the null is perfect, 0 signal.

>>> The BPSK signal is much better at rejecting interference and digging
>>> the signal out of the noise. I don't know exactly how much, but I'm
>>> sure it's in a NIST publication somewhere.
>>
>> That's for an ideal receiver. I have my limitations and I have no idea
>> how that will impact the reception.
>
> Well, you have to start somewhere, and an ideal receiver is a good
> place to start. The advantage is that reality only makes everything
> worse, never better. You should be able to build the BPSK
> demodulator, and then use a PC to decode the data. I've seen several
> such programs that do not require I/Q outputs. Here's one based on
> FreeBSD intended to sync the system clock to WWV/WWVH:
> <http://docs.freebsd.org/doc/4.0-RELEASE/usr/share/doc/ntp/driver36.htm>
> I'm sure there are others.

PC?!!! We don't need no stinking PCs! The demodulator is simple. The
signal is beat with a quadrature reference which will bring it down to 0
Hz. This gives two values, a sin and a cos signal. Take the ratio and
do an arcTan. This is a simple table lookup made simpler by some
convenient math relations. For example, the table only needs to cover
0� to 45� since the ratio can be swapped for 45� to 90� and the other
three quadrants distinguished by the sign bits.

Some folks would like you to think this has to be done like a high
fidelity receiver, but it only has to pull the signal out of the noise.

>> In my case I am not worried that the SNR isn't better, I just need a
>> strong enough signal to drive the LVDS input.
>
> Gain at 60KHz is very cheap. Watch out for overload issues. If you
> design it to work at full scale with whatever you get at 50uV/m, and
> the signal climbs to 100uV/m, your input A/D isn't going to be very

> happy. AGC will help, but I don't think it will be needed if you
> calculate your signal levels so that the A/D input amp isn't clipping.

If this is *signal* strength then it won't matter. If this is noise you are talking about, I'm not sure it will be a problem, the signal will still be able to be dug out with enough processing gain.

> Out of service for a day. It seems that about 30 years of chemistry
> experiments has finally destroyed much of the kitchen sink plumbing. I
> hate plumbing.

Not much fun, but then what it if you have to work on your knees and get dirty? I don't enjoy working on my car anymore either.

--

Rick

```
From -2092347932206443134
X-Google-Thread: 241b302a50,3a14e0bd863206e6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.212.113 with SMTP id nj17mr12875547wic.7.1366858102689;
        Wed, 24 Apr 2013 19:48:22 -0700 (PDT)
MIME-Version: 1.0
From: "bilou" <padepub@free.fr>
Newsgroups: rec.radio.amateur.homebrew
References: <kkf2bi$uf5$1@speranza.aioe.org>
<pnpmm8d30s1qge5ro50hkidq48btpndg2p@4ax.com>
Subject: Re: RF switches
Date: Wed, 17 Apr 2013 02:06:04 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6090
Lines: 17
Message-ID: <516de770$0$2044$426a34cc@news.free.fr>
Organization: Guest of ProXad - France
NNTP-Posting-Date: 17 Apr 2013 02:06:08 CEST
NNTP-Posting-Host: 95.136.164.91
X-Trace: 1366157168 news-4.free.fr 2044 95.136.164.91:13918
X-Complaints-To: abuse@proxad.net
Path: hg5ni24002wib.1!nntp.google.com!feeder1.cambriumusenet.nl!
82.197.223.103.MISMATCH!feeder3.cambriumusenet.nl!feed.tweaknews.nl!
194.109.133.83.MISMATCH!newsfeed.xs4all.nl!newsfeed4.news.xs4all.nl!xs4all!
border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!
border3.nntp.ams.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!
rt.uk.eu.org!de-l.enfer-du-nord.net!feeder1.enfer-du-nord.net!usenet-fr.net!
feed.ac-versailles.fr!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!
```

cleanfeed2-a.proxad.net!nnrp1-1.free.fr!not-for-mail

"Arid ace" <nonsmoker@freedom.smokes.oil> wrote in message
news:pnpmm8d30s1qge5ro50hkidq48btpndg2p@4ax.com...
 But because at that time circuits weren't
> simulated, it was overlooked that due to the diode capacitance, filters
> supposed
> to be switched out,

Hi
Such effects do exist with any switches.
Behaviour of filters with a very mismathed input and output impedances is
very
unpredictable.
For switching IF filters logic would be to cascade them and shunt the too
narrow ones.
I have never seen this implemented.

From -8088910199788972474
X-Google-Thread: 241b302a50,3a14e0bd863206e6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.188.52 with SMTP id fx20mr171278wic.3.1366858112581;
        Wed, 24 Apr 2013 19:48:32 -0700 (PDT)
Path: hg5ni24002wib.1!nntp.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
85.12.40.138.MISMATCH!xlned.com!feeder5.xlned.com!newsfeed.xs4all.nl!
newsfeed4.news.xs4all.nl!xs4all!border4.nntp.ams.giganews.com!
border2.nntp.ams.giganews.com!nntp.giganews.com!rt.uk.eu.org!news.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-11.dc1.easynews.com.POSTED!not-for-mail
From: Arid ace <nonsmoker@freedom.smokes.oil>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RF switches
Message-ID: <u97sm89ipaf3akhdtdctnciq3o9n6dd685@4ax.com>
References: <kkf2bi$uf5$1@speranza.aioe.org>
<pnpmm8d30s1qge5ro50hkidq48btpndg2p@4ax.com>
<516de770$0$2044$426a34cc@news.free.fr>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Lines: 33
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Tue, 16 Apr 2013 23:18:51 -0500
X-Received-Bytes: 2232
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Wed, 17 Apr 2013 02:06:04 +0200, "bilou" <padepub@free.fr> wrote:

>
>"Arid ace" <nonsmoker@freedom.smokes.oil> wrote in message
>news:pnpmm8d30s1qge5ro50hkidq48btpndg2p@4ax.com...
> But because at that time circuits weren't
>> simulated, it was overlooked that due to the diode capacitance, filters
>> supposed
>> to be switched out,
>Hi
>Such effects do exist with any switches.

14p DIP reed relays (2 relays / package) already suggested by their
construction, to short circuit filters not in use, in order to prevent spurious
responses. That was in the 80s. Too expensive for mass production though.

>Behaviour of filters with a very mismathed input and output impedances is
>very
>unpredictable.

What matters is the spurious response via parasitic and other undesirable
capacitances or common inductances.

>For switching IF filters logic would be to cascade them and shunt the too
>narrow ones.
>I have never seen this implemented.

With each IF filter adding ~6 dB loss, either something has to be done about
gain correction or S-meter display. I built the 455 KHz IF with 2 filters for
each bandwidth and a low gain (~12 dB max) dual gate mosfet amplifier between
the filters. Switching bandwidth included removing the supply of the mosfets not
in use. The result was excellent - I verified that with a spectrum analyzer.
>

From 5495287734446401723
X-Google-Thread: 241b302a50,6e79a3cc99799aa3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.86.34 with SMTP id m2mr678970wiz.5.1362844367943;
        Sat, 09 Mar 2013 07:52:47 -0800 (PST)
Path: bp2ni82054wib.1!nntp.google.com!feeder1.cambriumusenet.nl!
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border2.nntp.dca.giganews.com!border3.nntp.dca.giganews.com!
border1.nntp.dca.giganews.com!backlog1.nntp.ams.giganews.com!
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border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!nntp.giganews.com!de-
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september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>

Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Fri, 01 Mar 2013 14:04:32 -0500
Organization: A noiseless patient Spider
Lines: 143
Message-ID: <kgr44f$5lr$7@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
<kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Fri, 1 Mar 2013 20:47:12 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-host="a3f9ea729c844507114fe14b2b0e500d";
logging-data="5819"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX1/cODBJHnjy9lK0ADX4yn/t"
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Cancel-Lock: sha1:mearZFtsxIBLbjvV2GAIhpV7FNc=
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Content-Transfer-Encoding: 7bit

On 2/28/2013 6:40 PM, Tim Williams wrote:

> "rickman"<gnuarm@gmail.com> wrote in message news:kgoo4e$ts5$1@dont-email.me...
>> A higher frequency would imply a smaller L and/or C. How do you combine them to produce that? Consider the two caps to be in series???
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> Sure. If you bring the 10p over to the primary, it looks like 10p * (30m / 5u), or whatever the ratio was (I don't have it in front of me now), in parallel with the primary. (I misspoke earlier, you can safely ignore Ls, because k = 1. There's no flux which is not common to both windings.)

Reflecting the capacitance through the transformer changes it by the square of the turns ratio assuming the coupling coefficient is sufficiently high. I am simulating K at 1.

This is also true for the inductance, but in the opposite manner. So going from the 25 turn side to the 1 turn side, the effective capacitance is multiplied by 625 and the effective inductance (or resistance) is divided by 625. In fact, in LTspice you indicate the turns ratio by setting the inductance of the two coils by this ratio.

I see now that the reflected secondary capacitance is in parallel with the primary, rather than in parallel with the primary capacitor. That explains a lot... I'll have to hit the books to see how to calculate this new arrangement. I found a very similar circuit in the Radiotron Designer's Handbook. In section 4.6(iv)E on page 152 they show a series-parallel combination that only differs in the placement of the resistance in the parallel circuit. It need to be placed inline with the inductor... or is placing it parallel correct since this is the reflected resistance of the secondary? I'll have to cogitate on that a bit. I'm thinking it would be properly placed inline with the capacitor in the reflection since it is essentially inline in the secondary. Either way I expect it will have little impact on the resonant frequency and I can just toss all the resistances simplifying the math.

I do see one thing immediately. The null in Vcap I see is explained by the parallel resonance of the secondary cap with the secondary inductor. If you reflect that cap back to the primary in parallel with the primary inductor (resonating at the same frequency) it explains the null in the capacitor C1 voltage I see. C2' (reflected) and L1 make a parallel resonance with a high impedance dropping the primary cap current and voltage to a null. This null is calculated accurately.

What I need to do is change the impedance equation from Radiotron to one indicating the voltage at Vout relative to the input signal. I think I can do that by treating the circuit as a voltage divider taking the ratio of the impedance at the input versus the impedance at the primary coil. No?

> Inductors effectively in parallel also increase the expected resonant
> frequency. If you have this,
>

```
> .            L1
> .      +-----UUU--+------+------+
> .      | +        |      |      |
> .  ( Vsrc )      === C   > R    3 L2
> .      | -        |      >      3
> .      |          |      |      |
> .      +----------+------+------+
> .                              _|_ GND
```

>
> You might expect the resonant frequency is L2 + C, but it's actually (L1
> || L2) = Leq. If L1 is not substantially larger than L2, the resonant
> frequency will be pulled higher.

I see, L1 and L2 are in parallel because the impedance of Vsrc is very low. That is not the circuit I am simulating however. The loop of the antenna and the loop of the inductor are in series along with the primary capacitor. I'm not sure what the resistor is intended to represent, perhaps transformer losses? The resistance of L1 was added to the simulation model along with the resistance of the secondary coil which you have not shown... I think. It seems to me you have left out the tuning capacitor on the primary.

> Incidentally, don't forget to include loss components. I didn't see any
> explict R on the schematic. I didn't check if you set the LTSpice default
> parasitic ESR (cap), or DCR or EPR (coil) on the components. Besides
> parasitic losses, your signal is going *somewhere*, and that "where"
> consumes power!
>

> The actual transmitter is most certainly not a perfect current source inductor, nor is the receiver lossless. This simulation has no expression for radiation in any direction that's not directly between the two antennas: if all the power transmitted by the current source is reflected back, even though it's through a 0.1% coupling coefficient, it has to go somewhere. If it's coming back out the antenna, and it's not being burned in the "transformer", it's coming back into the transmitter. This is at odds with reality, where a 100% reflective antenna doesn't magically smoke a distant transmitter, it simply reflects 99.9% back into space. The transmitter hardly knows.

Interesting point. My primary goal with this is to simulate the resonance of the tuning so I can understand how to best tune the circuit. In many of the simulations I run the Q ends up being high enough that a very small drift in the parasitic capacitance on the secondary detunes the antenna and drops the signal level. It sounds like there are other losses that will bring the Q much lower.

I would also like to have some idea of the signal strength to expect. My understanding is that the radiation resistance of loop antennas is pretty low. So not much energy will be radiated out. No?

You make it sound as if in the simulation, even with a small coupling coefficient all the energy from antenna inductor will still couple back into the transmitter inductor regardless of the K value. Do I misunderstand you? It seems to result in the opposite, minimizing this back coupling. Or are you saying that the simulation needs to simulate the radiation resistance to show radiated losses?

> In this example, if you set R very large, you'll see ever more voltage on the output, and ever more current draw from Vsrc. You can mitigate this by increasing L1 still further, but the point is, if the source and load (R) aren't matched in some fashion, the power will reflect back to the transmitter and cause problems (in this case, power reflected back in-phase causes excessive current draw; in the CCS case, reflected power in-phase causes minimal voltage generation and little power transmission).
>
> Power is always coming and going somewhere, and if you happen to forget this fact, it'll reflect back and zap you in the butt sooner or later!
>
> Tim

Actually, my goal was to build the receiver and I realized that my design would require the largest signal I could get from the antenna. I never realized I would end up having to learn quite so much about antenna design.

I've been planning to create a PCB with lots of options so I can test a number of configurations. Nothing about the simulation makes me doubt the utility of this idea.

One thing that continues to bug me is that nothing I have seen gives me a hint on how to factor in the distributed capacitance of the antenna shield. I am using RG6 with 16 pF/Ft and likely will end up with 100 foot of coax total. At some point I'll just have to make some measurements and see what the real world does.

--

Rick

From -7142642256972696388
X-Google-Thread: 241b302a50,6e79a3cc99799aa3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
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        Sat, 09 Mar 2013 07:53:20 -0800 (PST)
MIME-Version: 1.0
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feed.tweaknews.nl!216.40.29.245.MISMATCH!novia!border4.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!border3.nntp.dca.giganews.com!
border1.nntp.dca.giganews.com!backlog1.nntp.ams.giganews.com!
border3.nntp.ams.giganews.com!border1.nntp.ams.giganews.com!
border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!nntp.giganews.com!de-
l.enfer-du-nord.net!feeder2.enfer-du-nord.net!feeds.phibee-telecom.net!eternal-
september.org!feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-
for-mail
From: "Tim Williams" <tmoranwms@charter.net>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Fri, 1 Mar 2013 19:53:07 -0600
Organization: A noiseless patient Spider
Lines: 235
Message-ID: <kgrlvp$rgk$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
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email.me>
Injection-Date: Sat, 2 Mar 2013 01:51:53 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-
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X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
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X-Priority: 3
X-MSMail-Priority: Normal
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You'll be much better off simply using the conventional radio approach than trying to simulate everything, especially when circuit equivalents are nebulous like this.

After all, if you can't quite tell what it *should* look like, how would you know if you could implement your model once you've found a satisfactory result?

What kind of antenna are you looking at, loop? The first thing to know about a loop is, if it's a very small loop (I'm guessing, at this frequency, it is), its radiation resistance is very low, meaning, you can treat it as a nearly pure inductance (Q > 10 I think is typical), and its bandwidth (even with a matched load) will be correspondingly narrow.

The nature of the incoming signal could be modeled as a voltage or current source; how doesn't really matter, because it isn't really either, it's a power source that couples in. Again, you don't have voltage without current and vice versa, it's all about power flow, and the matching that allows the power to flow.

Since the loop is inductive, your first priority is to resonate it with a capacitor at the desired frequency. This will require a very precise value, and even for a single frequency, may require a variable capacitor to account for manufacturing tolerances. In the AM BCB, a Q of 10 gets you 50-160kHz bandwidth, so you only get a few channels for any given tuning position. And if the Q is higher, you get even fewer.

Now that you've got a high Q resonant tank, you can do two things: couple into the voltage across the capacitor, or the current through the inductor. You need only a small fraction of either, because the Q is still going to be large. This can be arranged with a voltage divider (usually the capacitor is split into a huge hunk and a small variable part, e.g., 300pF variable + 10nF, output from across the 10nF), a transformer (a potential transformer across the cap, or a current transformer in series with the inductor), an inductive pickup (the big loop carries lots of volts, but you only need a few, so a much smaller loop can be placed inside the big loop), an impractically large inductor (like in my example circuit, which models radiation resistance as a parallel equivalent), etc. Whatever the case, you need to match transmission line impedance (e.g., 50 ohms) to radiation resistance (whichever series or parallel equivalent you have).

Once you get the signal into a transmission line, with a reasonable match (Z ~= Z_line, or alternately, SWR ~= 1), you can do whatever you want with it. Put it into an amplifier (don't forget to match it, too), etc. Yes, you're going to have funny behavior at other frequencies, and if you're concerned about those frequencies, you'll have to choose the coupling circuit and adjustable (or selectable) components accordingly. But for the most part, you completely ignore any frequency that you aren't tuning for, usually enforcing that concept by inserting filters to reject any stragglers.

Example: suppose you have a loop of 5uH and need to tune it to 500kHz. It

has a reactance of 15.7 ohms. Suppose further it has Q = 20. The ESR
(not counting DCR and skin effect) is X_L / Q, or 0.78 ohms; alternately,
the EPR is X_L * Q, or 314 ohms. The capacitor required is 20.3nF. If we
use a current transformer to match to a 50 ohm line, it needs an impedance
ratio of 1:64, or a turns ratio of 1:8. If we use a voltage transformer,
it's of course 8:1. (A capacitor divider is unsuitable for resonant
impedances less than line impedance, since it can only divide the
impedance down. If the inductance were a lot larger, it could be used.)
To a rough approximation, a smaller inductive loop, of 1/8 diameter of the
larger, I think, would also work.

Tim

--
Deep Friar: a very philosophical monk.
Website: http://seventransistorlabs.com

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>
> --
>
> Rick

```
From 2678265576967321779
X-Google-Thread: fc2a5,dc493cd1ba549b9d,start
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Complaints-To: groups-abuse@google.com
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Message-ID: <ddfead95-dfd5-4c26-9704-d852a0b4ba36@j2g2000yqj.googlegroups.com>
Subject: Metal transformer enclosure purpose?
From: Frank <fatherhaskell@yahoo.com>
Injection-Date: Sun, 03 Mar 2013 04:00:49 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

Clamshell-looking enclosure on small AC power transformers. Magnetic

```
shielding to prevent interference with nearby wires?


From 8074485896172031969
X-Google-Thread: fc2a5,dc493cd1ba549b9d
X-Google-NewGroupId: yes
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news.astraweb.com!border5.newsrouter.astraweb.com!not-for-mail
From: Jim Mueller <wrongname@nospam.com>
Subject: Re: Metal transformer enclosure purpose?
Newsgroups: rec.radio.amateur.homebrew
References: <ddfead95-dfd5-4c26-9704-d852a0b4ba36@j2g2000yqj.googlegroups.com>
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Date: 04 Mar 2013 00:39:17 GMT
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Dn\F
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Content-Transfer-Encoding: 8bit

On Sat, 02 Mar 2013 20:00:49 -0800, Frank wrote:

> Clamshell-looking enclosure on small AC power transformers.  Magnetic
> shielding to prevent interference with nearby wires?

Magnetic fields are hard to shield.  In a power transformer, it would be
more effective to use more iron in the core and more turns in the
windings to reduce the flux density.  While a steel shell probably
provides a limited amount of shielding, it's more likely there to provide
mechanical protection.  At the same time, it gives a better appearance.

--
Jim Mueller wrongname@nospam.com

To get my real email address, replace wrongname with dadoheadman.
Then replace nospam with fastmail.  Lastly, replace com with us.


From -4094497426853460533
X-Google-Thread: fc2a5,dc493cd1ba549b9d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
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X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.89.133 with SMTP id bo5mr1296419wib.6.1362365292374;
        Sun, 03 Mar 2013 18:48:12 -0800 (PST)
Path: g1ni44950wig.0!nntp.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!ecngs!feeder2.ecngs.de!feeds.phibee-telecom.net!
dedekind.zen.co.uk!zen.net.uk!hamilton.zen.co.uk!163.1.2.201.MISMATCH!
feeds.news.ox.ac.uk!news.ox.ac.uk!nntp-feed.chiark.greenend.org.uk!ewrotcd!
news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Metal transformer enclosure purpose?
Date: Sun, 3 Mar 2013 21:49:59 -0500
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 33
Sender: et472@bas1-montreal43-1242486930.dsl.bell.ca
Message-ID: <alpine.LNX.2.02.1303032144190.22741@darkstar.example.org>
References: <ddfead95-dfd5-4c26-9704-d852a0b4ba36@j2g2000yqj.googlegroups.com>
<5133ed35$0$52221$c3e8da3$92d0a893@news.astraweb.com>
NNTP-Posting-Host: bas1-montreal43-1242486930.dsl.bell.ca
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1362365291 22424 74.14.216.146 (4 Mar 2013 02:48:11 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 4 Mar 2013 02:48:11 GMT
In-Reply-To: <5133ed35$0$52221$c3e8da3$92d0a893@news.astraweb.com>
User-Agent: Alpine 2.02 (LNX 1266 2009-07-14)
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

On Sun, 4 Mar 2013, Jim Mueller wrote:

> On Sat, 02 Mar 2013 20:00:49 -0800, Frank wrote:
>
>> Clamshell-looking enclosure on small AC power transformers. Magnetic shielding to prevent interference with nearby wires?
>
> Magnetic fields are hard to shield. In a power transformer, it would be more effective to use more iron in the core and more turns in the windings to reduce the flux density. While a steel shell probably provides a limited amount of shielding, it's more likely there to provide mechanical protection. At the same time, it gives a better appearance.
>

Maybe protect the windings, too.

Definitely, nobody specifies between just a frame transformer and a metal cased one. I'd honestly never given it any thought. Bigger transformers often seem to be more likely to be cased in metal, so structural support may apply. I don'thave it handy, but that one Hammond catalog I got decades ago I think offered the same voltage/amps in open frame and metal enclosed versions, which would add more to "looks" than anything else.

I have heard of the leads breaking off open frame transofrmers, right where they come off the winding, which isn't a good thing. Any metal cased transformer, I don't recall that happening, which may mean there is some sort of terminal block inside, rather than just bringing out the wire. Certainly I've seen open frame transformers where the wire from the windings are brought to terminal points, which helps protect the winding wire. it also exposes the line voltage going into that transformer, which in some cases can't be a good thing.

Michael

```
From -6361862056245186761
X-Google-Thread: 112d1e,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.98.102 with SMTP id eh6mr1361101wib.7.1362375842259;
        Sun, 03 Mar 2013 21:44:02 -0800 (PST)
Path: g1ni45170wig.0!nntp.google.com!proxad.net!feeder1-2.proxad.net!
newsfeed.straub-nv.de!eternal-september.org!feeder.eternal-september.org!
mx05.eternal-september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Mon, 04 Mar 2013 00:43:28 -0500
Organization: A noiseless patient Spider
Lines: 45
Message-ID: <kh1c8g$rtf$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me>
<6tl1j8dno98p73qikmfqmvhlco12699u5m@4ax.com>
Mime-Version: 1.0
Injection-Date: Mon, 4 Mar 2013 05:42:40 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-
host="803eaee5f1c66902ef50fa2b579214f2";
     logging-data="28591"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/lp9xXsv3eHZu331mkNvXw"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
In-Reply-To: <6tl1j8dno98p73qikmfqmvhlco12699u5m@4ax.com>
Cancel-Lock: sha1:+P8o09hAOqBw0YegvkxQcxLnCUU=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 3/1/2013 11:43 AM, legg wrote:

> On Wed, 27 Feb 2013 22:07:51 -0500, rickman<gnuarm@gmail.com> wrote:
>
> <snip>
>> There is a resonance near the frequency I would expect, but it is not so
>> close actually. I can't figure why it is about 5% off. There is a
>> second resonance fairly high up that I can't figure at all. None of the
>> component values seem to combine appropriately to produce this peak.
> <snip>

>
> Pulling out the old reactance paper, there are a couple of expected
> interactions using the values present:
>
> Around 50KHz (89.42uH+48uH) with 50.42nF (L3+L1) with C1
> Around 290KHz (89.42uH+48uH) with 6.25nF (L3+L1) with C2*N^2
> Around 360KHz 48uH with 6.25nF L1 with C2*N^2
> nL1/nL2=N=25
>
> The mid-resonance is a dip or rejection.
>
> What's the issue?

290 kHz matches the calculations you just gave. But 290 kHz is the null
(or dip as you call it) from C2 and L2 (or L1 and C2 reflected with N^2).

I thought I wasn't getting the 60 kHz resonance, but I was mistakenly
adding the two capacitances together. So that is closer. Using L3+L1
with C1 I get 60.46 kHz while it is measured at 60 dead on in
simulation. That's nearly a 1% error.

I solved the equations finally. I found some info on the impedance of
series and parallel circuits. With that info I wrote the equation for
the ratio of Vout/Vin and found the roots. Turns out it is not so bad.
  The equation is a fourth order, but it has no x^3 or x^1 terms and so
is actually a quadratic of x^2. Solving the quadratic gives the exact
figures for 60 kHz and 393 kHz peaks. Since this is from taking the
square root of x^2, there are also solutions at the negative values... duh!

Reflecting C2 through the transformer to create C2', the two nulls I
found can be calculated by the resonance of L1 and C2' (290 kHz null on
C1) or L1 with C1 and C2' (96500 Hz null on L3).

--

Rick

```
From -9152333733665400354
X-Google-Thread: 241b302a50,dc493cd1ba549b9d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
X-Received: by 10.224.189.78 with SMTP id dd14mr17243425qab.0.1362381197165;
        Sun, 03 Mar 2013 23:13:17 -0800 (PST)
MIME-Version: 1.0
X-Received: by 10.49.1.43 with SMTP id 11mr1877479qej.29.1362381197142; Sun,
 03 Mar 2013 23:13:17 -0800 (PST)
Path: q17ni7qal.0!nntp.google.com!dd2no6900078qab.0!postnews.google.com!
f5g2000yqp.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Sun, 3 Mar 2013 23:13:17 -0800 (PST)
Complaints-To: groups-abuse@google.com
```

```
Injection-Info: f5g2000yqp.googlegroups.com; posting-host=98.233.141.95; posting-
account=dD8TigoAAACDPhWvxlzjZZqXoihF5NyM
NNTP-Posting-Host: 98.233.141.95
References: <ddfead95-dfd5-4c26-9704-d852a0b4ba36@j2g2000yqj.googlegroups.com>
<5133ed35$0$52221$c3e8da3$92d0a893@news.astraweb.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:19.0) Gecko/20100101 Firefox/
19.0,gzip(gfe)
Message-ID: <5c16fb40-f3ab-41fc-aacb-9468e7cdfa20@f5g2000yqp.googlegroups.com>
Subject: Re: Metal transformer enclosure purpose?
From: Frank <fatherhaskell@yahoo.com>
Injection-Date: Mon, 04 Mar 2013 07:13:17 +0000
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

On Mar 3, 7:39=A0pm, Jim Mueller <wrongn...@nospam.com> wrote:
> On Sat, 02 Mar 2013 20:00:49 -0800, Frank wrote:
> > Clamshell-looking enclosure on small AC power transformers. =A0Magnetic
> > shielding to prevent interference with nearby wires?
>
> Magnetic fields are hard to shield. =A0In a power transformer, it would b=
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> more effective to use more iron in the core and more turns in the
> windings to reduce the flux density. =A0While a steel shell probably
> provides a limited amount of shielding, it's more likely there to provide
> mechanical protection. =A0At the same time, it gives a better appearance.

Surprised no one's made them gold plated.



From -2940509359986270350
X-Google-Thread: 241b302a50,dc493cd1ba549b9d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
X-Received: by 10.224.175.65 with SMTP id w1mr17219533qaz.7.1362381290258;
        Sun, 03 Mar 2013 23:14:50 -0800 (PST)
MIME-Version: 1.0
X-Received: by 10.49.24.164 with SMTP id v4mr1906626qef.6.1362381290221; Sun,
 03 Mar 2013 23:14:50 -0800 (PST)
Path: q17ni7qal.0!nntp.google.com!dd2no6900231qab.0!postnews.google.com!
f6g2000yqm.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Sun, 3 Mar 2013 23:14:50 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: f6g2000yqm.googlegroups.com; posting-host=98.233.141.95; posting-
account=dD8TigoAAACDPhWvxlzjZZqXoihF5NyM
NNTP-Posting-Host: 98.233.141.95
References: <ddfead95-dfd5-4c26-9704-d852a0b4ba36@j2g2000yqj.googlegroups.com>
 <5133ed35$0$52221$c3e8da3$92d0a893@news.astraweb.com>
<alpine.LNX.2.02.1303032144190.22741@darkstar.example.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:19.0) Gecko/20100101 Firefox/
```

```
19.0,gzip(gfe)
Message-ID: <e60b5924-a7c6-41ac-acbf-4cd3174fd0ce@f6g2000yqm.googlegroups.com>
Subject: Re: Metal transformer enclosure purpose?
From: Frank <fatherhaskell@yahoo.com>
Injection-Date: Mon, 04 Mar 2013 07:14:50 +0000
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

On Mar 3, 9:49=A0pm, Michael Black <et...@ncf.ca> wrote:
> On Sun, 4 Mar 2013, Jim Mueller wrote:
> > On Sat, 02 Mar 2013 20:00:49 -0800, Frank wrote:
>
> >> Clamshell-looking enclosure on small AC power transformers. =A0Magneti=
c
> >> shielding to prevent interference with nearby wires?
>
> > Magnetic fields are hard to shield. =A0In a power transformer, it would=
 be
> > more effective to use more iron in the core and more turns in the
> > windings to reduce the flux density. =A0While a steel shell probably
> > provides a limited amount of shielding, it's more likely there to provi=
de
> > mechanical protection. =A0At the same time, it gives a better appearanc=
e.
>
> Maybe protect the windings, too.
>
> Definitely, nobody specifies between just a frame transformer and a metal
> cased one. =A0I'd honestly never given it any thought. =A0Bigger transfor=
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> may apply. =A0I don'thave it handy, but that one Hammond catalog I got
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> enclosed versions, which would add more to "looks" than anything else.
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> some sort of terminal block inside, rather than just bringing out the
> wire. =A0Certainly I've seen open frame transformers where the wire from =
the
> windings are brought to terminal points, which helps protect the winding
> wire. =A0it also exposes the line voltage going into that transformer, wh=
ich
> in some cases can't be a good thing.
>
> =A0 =A0Michael

Or if it's installed in a perforated enclosure.  Paper and wire
varnish
don't protect as well against sharp objects.
```

```
From 1806779905991138690
X-Google-Thread: 241b302a50,dc493cd1ba549b9d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
X-Received: by 10.68.203.201 with SMTP id ks9mr3940268pbc.7.1362428599740;
        Mon, 04 Mar 2013 12:23:19 -0800 (PST)
Path: ov8ni2580pbb.1!nntp.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!
news.astraweb.com!border6.newsrouter.astraweb.com!not-for-mail
From: Jim Mueller <wrongname@nospam.com>
Subject: Re: Metal transformer enclosure purpose?
Newsgroups: rec.radio.amateur.homebrew
References: <ddfead95-dfd5-4c26-9704-d852a0b4ba36@j2g2000yqj.googlegroups.com>
     <5133ed35$0$52221$c3e8da3$92d0a893@news.astraweb.com>
     <5c16fb40-f3ab-41fc-aacb-9468e7cdfa20@f5g2000yqp.googlegroups.com>
User-Agent: Pan/0.136 (I'm far too busy being delicious; GIT 926a150
     git://git.gnome.org/pan2)
MIME-Version: 1.0
Date: 04 Mar 2013 20:23:19 GMT
Lines: 25
Message-ID: <513502b7$0$43813$c3e8da3$9deca2c3@news.astraweb.com>
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 25043ca5.news.astraweb.com
X-Trace: DXC=nc\P_6dYD[k<^_jE4S2b@oL?0kYOcDh@j`6N2K==Yi5l;1gfI]1:T7k65fN?
UHOE=ch1mWJX8RLZmF:@e5`;C]CaZ4EbWnn0Himo41k6@K6R;c
X-Received-Bytes: 2132
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

On Sun, 03 Mar 2013 23:13:17 -0800, Frank wrote:

> On Mar 3, 7:39 pm, Jim Mueller <wrongn...@nospam.com> wrote:
>> On Sat, 02 Mar 2013 20:00:49 -0800, Frank wrote:
>> > Clamshell-looking enclosure on small AC power transformers.  Magnetic
>> > shielding to prevent interference with nearby wires?
>>
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>> windings to reduce the flux density.  While a steel shell probably
>> provides a limited amount of shielding, it's more likely there to
>> provide mechanical protection.  At the same time, it gives a better
>> appearance.
>
> Surprised no one's made them gold plated.

I have seen chrome in imported equipment where everything is chrome
plated.  I've also seen some with a finish that looks sort of gold
colored.  Perhaps it is some kind of zinc chromate coating.

--
Jim Mueller wrongname@nospam.com
```

To get my real email address, replace wrongname with dadoheadman.
Then replace nospam with fastmail. Lastly, replace com with us.

```
From -1951102970222064776
X-Google-Thread: 241b302a50,1a5c4284775b8b30,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.224.110.68 with SMTP id m4mr24984198qap.2.1362595483308;
        Wed, 06 Mar 2013 10:44:43 -0800 (PST)
X-Received: by 10.49.84.167 with SMTP id a7mr3058790qez.11.1362595483240; Wed,
 06 Mar 2013 10:44:43 -0800 (PST)
Path: p7ni204qai.0!nntp.google.com!t2no9401672qal.0!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Wed, 6 Mar 2013 10:44:43 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=188.190.124.68;
 posting-account=lpvsOQoAAADrItjCNLUGUA4f5NKzjLsd
NNTP-Posting-Host: 188.190.124.68
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <8345ab70-6ca2-4254-bf57-51fed893dc50@googlegroups.com>
Subject: Softcore lesbo aciton on the bed
From: Iran <tamarmadgecay@gmail.com>
Injection-Date: Wed, 06 Mar 2013 18:44:43 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

 Softcore lesbo aciton on the bed   http://t.co/P5PVUr5B

```
From -7390496143596213036
X-Google-Thread: 241b302a50,6e79a3cc99799aa3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.24.132 with SMTP id u4mr3029852wif.6.1363061163569;
        Mon, 11 Mar 2013 21:06:03 -0700 (PDT)
Path: g1ni60762wig.0!nntp.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
216.40.29.245.MISMATCH!novia!border4.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!backlog2.nntp.ams.giganews.com!
border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!nntp.giganews.com!
weretis.net!feeder1.news.weretis.net!feeder.erje.net!eu.feeder.erje.net!eternal-
september.org!feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-
for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Wed, 06 Mar 2013 14:00:57 -0500
Organization: A noiseless patient Spider
Lines: 111
```

Message-ID: <kh83nl$uqo$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me> <kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-email.me> <kgrlvp$rgk$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Wed, 6 Mar 2013 19:00:05 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-host="803eaee5f1c66902ef50fa2b579214f2";
logging-data="31576"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX1/1WZbaNt1bexS2n32rE+Qp"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/12.0.1
In-Reply-To: <kgrlvp$rgk$1@dont-email.me>
Cancel-Lock: sha1:wIx0LONqqDj+yTjrT/Gy7Ql61MA=
Bytes: 7295
X-Original-Bytes: 7191
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 3/1/2013 8:53 PM, Tim Williams wrote:
> You'll be much better off simply using the conventional radio approach
> than trying to simulate everything, especially when circuit equivalents
> are nebulous like this.

I don't know what you mean by the "conventional radio approach".

> After all, if you can't quite tell what it *should* look like, how would
> you know if you could implement your model once you've found a
> satisfactory result?

I was simulating a specific circuit for a specific purpose. I got the answer I was looking for.

> What kind of antenna are you looking at, loop? The first thing to know
> about a loop is, if it's a very small loop (I'm guessing, at this
> frequency, it is), its radiation resistance is very low, meaning, you can
> treat it as a nearly pure inductance (Q> 10 I think is typical), and its
> bandwidth (even with a matched load) will be correspondingly narrow.

Yes, I plan to use a shielded loop. I have found some contradictory info on the effectiveness of the "shield". One reference seems to have measurements that show it is primarily E-field coupled in the longer distance portion of the near-field.

I am aware of the low radiation resistance and have not included that factor in my simulation. The Q of just the antenna loop is around 100 as calculated from the ratio of reactance to resistance.

> The nature of the incoming signal could be modeled as a voltage or current
> source; how doesn't really matter, because it isn't really either, it's a

> power source that couples in. Again, you don't have voltage without current and vice versa, it's all about power flow, and the matching that allows the power to flow.

A friend in a loop antenna Yahoo group suggested the use of the transformer coupling with a low k to model the signal reception.

> Since the loop is inductive, your first priority is to resonate it with a capacitor at the desired frequency. This will require a very precise value, and even for a single frequency, may require a variable capacitor to account for manufacturing tolerances. In the AM BCB, a Q of 10 gets you 50-160kHz bandwidth, so you only get a few channels for any given tuning position. And if the Q is higher, you get even fewer.

Yes, that is loop antenna 101 I think. It was when I added a coupling transformer with 100:1 turns ratio that I was told I needed to consider the parasitics. I have found it is not useful to go much above 25 or 33:1 on the turns ratio. I am receiving a single frequency, 60 kHz. There is no need for a wide bandwidth. Ultimately, I prefer a Q of > 100 for the higher gain. If it gets too high, the off tuning by variations (drift) in the parasitic capacitance affects the antenna gain appreciably.

> Now that you've got a high Q resonant tank, you can do two things: couple into the voltage across the capacitor, or the current through the inductor. You need only a small fraction of either, because the Q is still going to be large. This can be arranged with a voltage divider (usually the capacitor is split into a huge hunk and a small variable part, e.g., 300pF variable + 10nF, output from across the 10nF), a transformer (a potential transformer across the cap, or a current transformer in series with the inductor), an inductive pickup (the big loop carries lots of volts, but you only need a few, so a much smaller loop can be placed inside the big loop), an impractically large inductor (like in my example circuit, which models radiation resistance as a parallel equivalent), etc. Whatever the case, you need to match transmission line impedance (e.g., 50 ohms) to radiation resistance (whichever series or parallel equivalent you have).

Transmission line? What transmission line? The antenna is directly connected to the receiver which has a very high input impedance. Why do I need to consider radiation resistance? I have not read that anywhere.

> Once you get the signal into a transmission line, with a reasonable match (Z ~= Z_line, or alternately, SWR ~= 1), you can do whatever you want with it. Put it into an amplifier (don't forget to match it, too), etc. Yes, you're going to have funny behavior at other frequencies, and if you're concerned about those frequencies, you'll have to choose the coupling circuit and adjustable (or selectable) components accordingly. But for the most part, you completely ignore any frequency that you aren't tuning for, usually enforcing that concept by inserting filters to reject any

> stragglers.
>
> Example: suppose you have a loop of 5uH and need to tune it to 500kHz. It
> has a reactance of 15.7 ohms. Suppose further it has Q = 20. The ESR
> (not counting DCR and skin effect) is X_L / Q, or 0.78 ohms; alternately,
> the EPR is X_L * Q, or 314 ohms. The capacitor required is 20.3nF. If we
> use a current transformer to match to a 50 ohm line, it needs an impedance
> ratio of 1:64, or a turns ratio of 1:8. If we use a voltage transformer,
> it's of course 8:1. (A capacitor divider is unsuitable for resonant
> impedances less than line impedance, since it can only divide the
> impedance down. If the inductance were a lot larger, it could be used.)
> To a rough approximation, a smaller inductive loop, of 1/8 diameter of the
> larger, I think, would also work.

I'm not familiar with the concept of voltage transformer vs. current
transformer. How do you mean that?

How did you get the 1:64 impedance ratio and the 1:8 turns ratio? I
don't follow that. Are you saying the line impedance should match the
ESR? Why exactly would it need to match the ESR?

--

Rick

From 4199670902961052010
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.106.161 with SMTP id gv1mr4901975wib.4.1362618807293;
        Wed, 06 Mar 2013 17:13:27 -0800 (PST)
MIME-Version: 1.0
Path: bp2ni76910wib.1!nntp.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
192.71.180.34.MISMATCH!newsfeed1.swip.net!85.214.198.2.MISMATCH!eternal-
september.org!feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-
for-mail
From: "Tim Williams" <tmoranwms@charter.net>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Wed, 6 Mar 2013 19:13:25 -0600
Organization: A noiseless patient Spider
Lines: 72
Message-ID: <kh8pgv$nob$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
<kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-
email.me> <kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me>
Injection-Date: Thu, 7 Mar 2013 01:12:00 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-
host="c5496f60c1e2fe7da0e7ee177c343043";
     logging-data="24331"; mail-complaints-to="abuse@eternal-september.org";

posting-account="U2FsdGVkX18ItYDFUtRjpdI8VhxPHW6M"
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:/B+sluesUzGX5YUMVK3KE0sD52o=
X-Priority: 3
X-MSMail-Priority: Normal

"rickman" <gnuarm@gmail.com> wrote in message
news:kh83nl$uqo$1@dont-email.me...

> Yes, I plan to use a shielded loop. I have found some contradictory info on the effectiveness of the "shield". One reference seems to have measurements that show it is primarily E-field coupled in the longer distance portion of the near-field.

I trust this resource:
http://vk1od.net/antenna/shieldedloop/
He's got gobs of analytical articles.

> Yes, that is loop antenna 101 I think. It was when I added a coupling transformer with 100:1 turns ratio that I was told I needed to consider the parasitics. I have found it is not useful to go much above 25 or 33:1 on the turns ratio. I am receiving a single frequency, 60 kHz. There is no need for a wide bandwidth. Ultimately, I prefer a Q of > 100 for the higher gain. If it gets too high, the off tuning by variations (drift) in the parasitic capacitance affects the antenna gain appreciably.

High Q isn't the goal, high radiation resistance is -- the bigger the loop, the better it couples with free space, until it's a wave length around.

You can go ahead and make a teeny coil out of polished silver litz wire, and push the Q up into the hundreds, but all you'll see is internal resistance, hardly anything attributable to actual radiation. Since the losses dominate over radiation, it makes a crappy antenna. But you know that from looking at it -- it's a tiny lump, of course it's not going to see the outside world.

It is true, however, that a small coil, with low losses, will have low noise. AM radios rely on this, which is how they get away with tiny hunks of ferrite for picking up radio.

Of course, it doesn't hurt that AM stations are 50kW or so, to push over atmospheric noise.

> Transmission line? What transmission line? The antenna is directly connected to the receiver which has a very high input impedance. Why do I need to consider radiation resistance? I have not read that anywhere.

Ok, then you can merge the matching transformer, transmission line and receiver input transformer into one -- an even larger stepup into whatever

impedance it's looking at (what's "very high", kohms? Mohms?) will get you
that much more SNR.

> I'm not familiar with the concept of voltage transformer vs. current
> transformer. How do you mean that?

Current transformer measures current (its winding is in series), potential
transformer measures voltage (in parallel).

> How did you get the 1:64 impedance ratio and the 1:8 turns ratio? I
> don't follow that. Are you saying the line impedance should match the
> ESR? Why exactly would it need to match the ESR?

ESR (and Q) measured on the coil corresponds to radiation resistance
(series equivalent) *plus* internal losses (also series equivalent). You
can't separate the two components, so you can only get the best power
match by the good old impedance theorem.

~1:64 is 50 ohm / 0.78 ohm, and N2/N1 = sqrt(Z2/Z1), or 8:1 turns ratio.

Tim

--
Deep Friar: a very philosophical monk.
Website: http://seventransistorlabs.com

From -2598000703953459011
X-Google-Thread: 241b302a50,3af92c227b192b90,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.205.35.14 with SMTP id su14mr672435bkb.3.1363061092957;
        Mon, 11 Mar 2013 21:04:52 -0700 (PDT)
MIME-Version: 1.0
Path: g1ni60755wig.0!nntp.google.com!feeder1.cambriumusenet.nl!
82.197.223.103.MISMATCH!feeder3.cambriumusenet.nl!82.197.223.108.MISMATCH!
feeder2.cambriumusenet.nl!feed.tweaknews.nl!216.40.29.245.MISMATCH!novia!
border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!
backlog2.nntp.ams.giganews.com!border4.nntp.ams.giganews.com!
border2.nntp.ams.giganews.com!nntp.giganews.com!weretis.net!
feeder1.news.weretis.net!newsfeed.CARNet.hr!goblin2!goblin.stu.neva.ru!
feeder.erje.net!us.feeder.erje.net!news.linkpendium.com!news.linkpendium.com!
panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1360220700@panix.com>
Followup-To: poster

```
Date: 7 Mar 2013 02:05:01 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 11 Jun 2013 03:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1362639901@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1362639904 20317 166.84.1.2 (7 Mar 2013 07:05:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 7 Mar 2013 07:05:04 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Bytes: 3994
X-Original-Bytes: 3890

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted quarterly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been
recently revived by an active moderation team.  We are currently seeking
suitable information, FAQ, and bulletin articles from the entire
rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our
newsgroup.

We are seeking a replacement maintainer for the following information
bulletin formerly posted to rec.radio.amateur.* (and currently archived
at http://www.faqs.org/faqs/radio/personal-intro/ ):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article       |
is that it does not mention newer amateur radio newsgroups created since      |
it was written, including:                                                    |

 rec.radio.amateur.antenna                                                    |
 rec.radio.amateur.boatanchors                                                |
 rec.radio.amateur.dx                                                         |
 rec.radio.amateur.equipment                                                  |
 rec.radio.amateur.homebrew                                                   |
 rec.radio.amateur.moderated                                                  |
 rec.radio.amateur.space                                                      |
```

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions. We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

```
From 8142082221441365750
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.7.200 with SMTP id l8mr113920paa.43.1362640542965;
        Wed, 06 Mar 2013 23:15:42 -0800 (PST)
Path: jm3ni36916pbb.0!nntp.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news.glorb.com!eternal-september.org!feeder.eternal-
september.org!mx05.eternal-september.org!.POSTED!not-for-mail
From: Tauno Voipio <tauno.voipio@notused.fi.invalid>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Thu, 07 Mar 2013 09:15:40 +0200
Organization: A noiseless patient Spider
Lines: 33
Message-ID: <kh9eo7$691$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
<kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-
email.me> <kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Thu, 7 Mar 2013 07:14:15 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-
host="9ec88a38eb5e2951ce80461bfdb24c3e";
     logging-data="6433"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1++7YEm6eP4hk8YP5ykso4zy7PDOO3wSvA="
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.8; rv:17.0) Gecko/20130216
Thunderbird/17.0.3
In-Reply-To: <kh83nl$uqo$1@dont-email.me>
Cancel-Lock: sha1:QQBkscMaI6jYzsiRCk79DNjThiQ=
Bytes: 3016
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 6.3.13 9:00 , rickman wrote:

>> Since the loop is inductive, your first priority is to resonate it with a
>> capacitor at the desired frequency. This will require a very precise
>> value, and even for a single frequency, may require a variable capacitor
>> to account for manufacturing tolerances. In the AM BCB, a Q of 10 gets
>> you 50-160kHz bandwidth, so you only get a few channels for any given
>> tuning position. And if the Q is higher, you get even fewer.
>
> Yes, that is loop antenna 101 I think. It was when I added a coupling
> transformer with 100:1 turns ratio that I was told I needed to consider
> the parasitics. I have found it is not useful to go much above 25 or
> 33:1 on the turns ratio. I am receiving a single frequency, 60 kHz.
> There is no need for a wide bandwidth. Ultimately, I prefer a Q of >
> 100 for the higher gain. If it gets too high, the off tuning by
> variations (drift) in the parasitic capacitance affects the antenna gain
> appreciably.

Please note that high Q will destroy the modulation sidebands on
the signal you're listening to.

In aviation, there are non-directional beacons which are transmitting
in a frequency around 300 kHz (1 km wavelength). The antennas cannot
obviously be of efficient length (250 m / 800 ft), so they are short
(20 m / 70 ft) force-tuned to the transmitting frequency. This creates
so high Q that the identification modulation sidebands for the customary
1050 Hz audio do not fit in, and the ID is modulated using 400 Hz audio.

--

Tauno Voipio, avionics engineer (also OH2UG)

From 7736750201512430638
X-Google-Thread: 241b302a50,ff6fe1741b27ff80,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.19.132 with SMTP id f4mr5457680wie.2.1362658609085;
        Thu, 07 Mar 2013 04:16:49 -0800 (PST)
Path: g1ni51608wig.0!nntp.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!198.186.194.247.MISMATCH!news-out.readnews.com!
transit3.readnews.com!panix!rri.panix.com!robomod!not-for-mail
From: rec-radio-info-request@panix.com (SolderSmoke via rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.info
Subject: SolderSmoke Podcast for Thursday 7 March 2013
Followup-To:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Date: Thu, 7 Mar 2013 07:16:48 EST
Organization: SolderSmoke

```
Lines: 12
Approved: RRI Admin <rec-radio-info-request@panix.com>
Message-ID: <f46d04462bacd3b8c604d754ad96@google.com>
NNTP-Posting-Host: panix6.panix.com
Mime-Version: 1.0
X-Trace: reader2.panix.com 1362658608 14519 166.84.1.6 (7 Mar 2013 12:16:48 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 7 Mar 2013 12:16:48 +0000 (UTC)
X-RRI-Policy: http://www.panix.com/~rram/usenet/rri/index.html
X-RRI-Info-1: Send submissions to             rec-radio-info@panix.com
X-RRI-Info-2: Send technical complaints to    rec-radio-info-request@panix.com
X-RRI-Info-3: Send complaints about policy to rec-radio-info-request@panix.com
X-Comment-1: The moderators do not necessarily agree or disagree with this
article.
X-Comment-2: Moderators do not verify the accuracy of posted information.
X-Comment-3: Acceptance does not convey approval of any external references.
X-Robomod: STUMP, ichudov@algebra.com (Igor Chudov), C++/Perl/Unix Consulting
X-Moderation-1: Hassle-Free commercial hosting of moderation sites available
X-Moderation-2: See http://www.algebra.com/~ichudov/stump
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
        d=google.com; s=20120113;
        h=mime-version:x-received:sender:precedence:message-id:date:subject
         :from:to:content-type;
        bh=vvFb8VuLhotsO3wndHZWDEEF4vQJSqD+HnCG2Se1Qw0=;
        b=eUKaXsH0SfvIJH3+pL7LbeNOzEZ3201+0T0S6Dkhaxo7B+ED8KzvG/ruW5zrDEGNfF
         0U9uSk/23mK7Lei0AAIY1/QiWtowu3JoX4Q8oBMfQg7ebAbNhcDYYBzMsKvXy84Tl6Cc
         byY9CsIDXcU3gWaa9TfqzH2TJZLF3KZJrlBTLt7XcGVyGgHeUVdyxYzxkvhiRdz2kNu+
         9mlXdFTFrgY45RcmWi1QT1abwX6pUfFLB4LwyNqYBZu35dqUxK9kpvTk1g6SrT1xkPk+
         pdaqMe70OjE6HQci2OevAi4rqI2l8wDyhBfOYa6G1Zn2AyplBMeWdFN/AXnGG/H6HFgf
         S3Yw==
X-StripMime: Non-text section removed by stripmime
Content-Type: text/plain; charset=UTF-8; format=flowed; delsp=yes
```

SolderSmoke Podcasts

///
SolderSmoke150`

Posted: 06 Mar 2013 12:06 PM PST

SolderSmoke issue 150
This posting includes a media file:
http://www.soldersmoke.com/soldersmoke150.mp3

```
From -6950148943882464881
X-Google-Thread: 241b302a50,6e79a3cc99799aa3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.189.209 with SMTP id gk17mr2971286wic.7.1363061228055;
```

```
        Mon, 11 Mar 2013 21:07:08 -0700 (PDT)
Path: g1ni60768wig.0!nntp.google.com!feeder1.cambriumusenet.nl!
82.197.223.108.MISMATCH!feeder2.cambriumusenet.nl!feed.tweaknews.nl!
216.40.29.245.MISMATCH!novia!border4.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!border3.nntp.dca.giganews.com!
border1.nntp.dca.giganews.com!backlog1.nntp.ams.giganews.com!
border3.nntp.ams.giganews.com!border1.nntp.ams.giganews.com!
border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!nntp.giganews.com!
weretis.net!feeder1.news.weretis.net!feeder.erje.net!eu.feeder.erje.net!eternal-
september.org!feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-
for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups: 
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Thu, 07 Mar 2013 09:30:58 -0500
Organization: A noiseless patient Spider
Lines: 48
Message-ID: <kha8a5$3db$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me> 
<kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-
email.me> <kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me> 
<kh9eo7$691$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Thu, 7 Mar 2013 14:30:29 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-
host="803eaee5f1c66902ef50fa2b579214f2";
     logging-data="3499"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX189RalAIfp7zEXMIXCiS4PL"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
In-Reply-To: <kh9eo7$691$1@dont-email.me>
Cancel-Lock: sha1:riCxxyJy+Ld2N71g1VTO3Ze54g4=
Bytes: 4006
X-Original-Bytes: 3842
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 3/7/2013 2:15 AM, Tauno Voipio wrote:
> On 6.3.13 9:00 , rickman wrote:
>
>>> Since the loop is inductive, your first priority is to resonate it
>>> with a
>>> capacitor at the desired frequency. This will require a very precise
>>> value, and even for a single frequency, may require a variable capacitor
>>> to account for manufacturing tolerances. In the AM BCB, a Q of 10 gets
>>> you 50-160kHz bandwidth, so you only get a few channels for any given
>>> tuning position. And if the Q is higher, you get even fewer.
>>
>> Yes, that is loop antenna 101 I think. It was when I added a coupling
>> transformer with 100:1 turns ratio that I was told I needed to consider
>> the parasitics. I have found it is not useful to go much above 25 or
>> 33:1 on the turns ratio. I am receiving a single frequency, 60 kHz.
```

>> There is no need for a wide bandwidth. Ultimately, I prefer a Q of >
>> 100 for the higher gain. If it gets too high, the off tuning by
>> variations (drift) in the parasitic capacitance affects the antenna gain
>> appreciably.
>
> Please note that high Q will destroy the modulation sidebands on
> the signal you're listening to.

I appreciate the advice from everyone, but much of it is not in the proper context and way off target. "High" Q is how high? Where are the modulation sidebands? My point is that I have already considered this. The modulation sidebands of this signal are on the order of low 10's of Hz. This signal is modulated at a 1 bit per second rate. I will be demodulating a 30 Hz sample rate. So a bandwidth of 100 Hz is plenty which corresponds to a Q of around 500.

I said I was looking for a Q over 100, maybe I should have said a Q of a bit over 100. By the time it gets to 300 it is to peaky to hold a tune setting. That is the problem I am concerned with.

> In aviation, there are non-directional beacons which are transmitting
> in a frequency around 300 kHz (1 km wavelength). The antennas cannot
> obviously be of efficient length (250 m / 800 ft), so they are short
> (20 m / 70 ft) force-tuned to the transmitting frequency. This creates
> so high Q that the identification modulation sidebands for the customary
> 1050 Hz audio do not fit in, and the ID is modulated using 400 Hz audio.

Ok, but that is nothing like my application, receiving WWVB.

--

Rick

```
From 965701121434216406
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.2.227 with SMTP id 3mr254244pax.33.1362667865869;
        Thu, 07 Mar 2013 06:51:05 -0800 (PST)
Path: jm3ni37473pbb.0!nntp.google.com!news.glorb.com!eternal-september.org!
feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Thu, 07 Mar 2013 09:50:11 -0500
Organization: A noiseless patient Spider
Lines: 101
Message-ID: <kha9e1$9qt$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
```

```
<kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-
email.me> <kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me>
<kh8pgv$nob$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Thu, 7 Mar 2013 14:49:37 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-
host="803eaee5f1c66902ef50fa2b579214f2";
     logging-data="10077"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18tMarRVCI4sI2fL2U7JNVj"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
In-Reply-To: <kh8pgv$nob$1@dont-email.me>
Cancel-Lock: sha1:NCffbxwmFNLbISowCFI3/WKn1JE=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 3/6/2013 8:13 PM, Tim Williams wrote:
> "rickman"<gnuarm@gmail.com>  wrote in message
> news:kh83nl$uqo$1@dont-email.me...
>> Yes, I plan to use a shielded loop.  I have found some contradictory
>> info on the effectiveness of the "shield".  One reference seems to have
>> measurements that show it is primarily E-field coupled in the longer
>> distance portion of the near-field.
>
> I trust this resource:
> http://vk1od.net/antenna/shieldedloop/
> He's got gobs of analytical articles.

Yes, I've seen this page.  Thanks.


>> Yes, that is loop antenna 101 I think.  It was when I added a coupling
>> transformer with 100:1 turns ratio that I was told I needed to consider
>> the parasitics.  I have found it is not useful to go much above 25 or
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>> appreciably.
>
> High Q isn't the goal, high radiation resistance is -- the bigger the
> loop, the better it couples with free space, until it's a wave length
> around.

I'm not clear on why you keep referring to radiation resistance for a
receiving antenna.  Does this result in a larger received signal?  I am
concerned with maximizing the voltage at the input to the receiver.


> You can go ahead and make a teeny coil out of polished silver litz wire,
> and push the Q up into the hundreds, but all you'll see is internal
> resistance, hardly anything attributable to actual radiation.  Since the
> losses dominate over radiation, it makes a crappy antenna.  But you know
```

> that from looking at it -- it's a tiny lump, of course it's not going to
> see the outside world.

I have no idea why you are talking about Litz wire and tiny coils. I
never said I was looking to maximize the Q. I said I wanted a Q of over
100. I should have said, slightly over 100. A higher Q clearly does
increase the voltage on the input in my simulations. Is there something
wrong with my simulations?

> It is true, however, that a small coil, with low losses, will have low
> noise. AM radios rely on this, which is how they get away with tiny hunks
> of ferrite for picking up radio.
>
> Of course, it doesn't hurt that AM stations are 50kW or so, to push over
> atmospheric noise.
>
>> Transmission line? What transmission line? The antenna is directly
>> connected to the receiver which has a very high input impedance. Why do
>> I need to consider radiation resistance? I have not read that
>> anywhere.
>
> Ok, then you can merge the matching transformer, transmission line and
> receiver input transformer into one -- an even larger stepup into whatever
> impedance it's looking at (what's "very high", kohms? Mohms?) will get you
> that much more SNR.

Yes, a higher stepup ratio gets larger signal up to a point. That point
is determined by the parasitic capacitance of the receiver input. That
capacitance is reflected back through the transformer and affects the
antenna tuning. In my simulations it creates a filter with two resonances.

>> I'm not familiar with the concept of voltage transformer vs. current
>> transformer. How do you mean that?
>
> Current transformer measures current (its winding is in series), potential
> transformer measures voltage (in parallel).

Series and parallel with what? I'm not following this. I have trouble
with series and parallel resonance, but I'm starting to get the concept.
Sometimes it is hard to tell how a circuit is being stimulated.

>> How did you get the 1:64 impedance ratio and the 1:8 turns ratio? I
>> don't follow that. Are you saying the line impedance should match the
>> ESR? Why exactly would it need to match the ESR?
>
> ESR (and Q) measured on the coil corresponds to radiation resistance
> (series equivalent) *plus* internal losses (also series equivalent). You
> can't separate the two components, so you can only get the best power
> match by the good old impedance theorem.

Internal losses of what? How do you determine the internal losses?

> ~1:64 is 50 ohm / 0.78 ohm, and N2/N1 = sqrt(Z2/Z1), or 8:1 turns ratio.

Ok, so you were matching the hypothetical ESR to the hypothetical line impedance.

--

Rick

```
From -2893659305914515564
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.138.72 with SMTP id qo8mr306498pab.15.1362678925132;
        Thu, 07 Mar 2013 09:55:25 -0800 (PST)
Path: q9ni4210pba.1!nntp.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
news.glorb.com!eternal-september.org!feeder.eternal-september.org!mx05.eternal-
september.org!.POSTED!not-for-mail
From: Tauno Voipio <tauno.voipio@notused.fi.invalid>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Thu, 07 Mar 2013 19:55:21 +0200
Organization: A noiseless patient Spider
Lines: 62
Message-ID: <khak7j$cfa$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
<kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-
email.me> <kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me>
<kh9eo7$691$1@dont-email.me> <kha8a5$3db$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Thu, 7 Mar 2013 17:53:55 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-
host="9ec88a38eb5e2951ce80461bfdb24c3e";
     logging-data="12778"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+fckf13KdsGyt7BNU7sbMxPJcU0bd0uSY="
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.8; rv:17.0) Gecko/20130216
Thunderbird/17.0.3
In-Reply-To: <kha8a5$3db$1@dont-email.me>
Cancel-Lock: sha1:ufKjJCJKCyguIwLgCxXwcPpZr28=
Bytes: 4453
X-Received-Bytes: 4501
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 7.3.13 4:30 , rickman wrote:

> On 3/7/2013 2:15 AM, Tauno Voipio wrote:
>> On 6.3.13 9:00 , rickman wrote:
>>
>>>> Since the loop is inductive, your first priority is to resonate it
>>>> with a
>>>> capacitor at the desired frequency. This will require a very precise
>>>> value, and even for a single frequency, may require a variable
>>>> capacitor
>>>> to account for manufacturing tolerances. In the AM BCB, a Q of 10 gets
>>>> you 50-160kHz bandwidth, so you only get a few channels for any given
>>>> tuning position. And if the Q is higher, you get even fewer.
>>>
>>> Yes, that is loop antenna 101 I think. It was when I added a coupling
>>> transformer with 100:1 turns ratio that I was told I needed to consider
>>> the parasitics. I have found it is not useful to go much above 25 or
>>> 33:1 on the turns ratio. I am receiving a single frequency, 60 kHz.
>>> There is no need for a wide bandwidth. Ultimately, I prefer a Q of >
>>> 100 for the higher gain. If it gets too high, the off tuning by
>>> variations (drift) in the parasitic capacitance affects the antenna gain
>>> appreciably.
>>
>> Please note that high Q will destroy the modulation sidebands on
>> the signal you're listening to.
>
> I appreciate the advice from everyone, but much of it is not in the
> proper context and way off target. "High" Q is how high? Where are the
> modulation sidebands? My point is that I have already considered this.
>   The modulation sidebands of this signal are on the order of low 10's
> of Hz. This signal is modulated at a 1 bit per second rate. I will be
> demodulating a 30 Hz sample rate. So a bandwidth of 100 Hz is plenty
> which corresponds to a Q of around 500.
>
> I said I was looking for a Q over 100, maybe I should have said a Q of a
> bit over 100. By the time it gets to 300 it is to peaky to hold a tune
> setting. That is the problem I am concerned with.
>
>
>> In aviation, there are non-directional beacons which are transmitting
>> in a frequency around 300 kHz (1 km wavelength). The antennas cannot
>> obviously be of efficient length (250 m / 800 ft), so they are short
>> (20 m / 70 ft) force-tuned to the transmitting frequency. This creates
>> so high Q that the identification modulation sidebands for the customary
>> 1050 Hz audio do not fit in, and the ID is modulated using 400 Hz audio.
>
> Ok, but that is nothing like my application, receiving WWVB.
>

I'd still be wary of high Q. The antenna is, by definition, in close interaction with its surroundings, and a high-Q thing is quickly detuned.

At those low frequencies, the atmospheric and other outside noise is far larger than the internal noise of an amplifier, so in my opinion, the way to go is a loop tuned to 60 kHz with as low Q as easily comes without extra attenuation and a good pre-amplifier. The preamp can then contain a tuned interstage tank for interference suppression.

--

Tauno Voipio

From -8830678668722691342
X-Google-Thread: 112d1e,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.67.10.199 with SMTP id ec7mr245383pad.42.1362679924660;
        Thu, 07 Mar 2013 10:12:04 -0800 (PST)
Path: q9ni4183pba.1!nntp.google.com!news.glorb.com!feeder.erje.net!us.feeder.erje.net!newsfeed.straub-nv.de!eternal-september.org!feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Thu, 07 Mar 2013 13:11:03 -0500
Organization: A noiseless patient Spider
Lines: 23
Message-ID: <khal6r$hni$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me> <kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-email.me> <kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me> <kh9eo7$691$1@dont-email.me> <kha8a5$3db$1@dont-email.me> <khak7j$cfa$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Thu, 7 Mar 2013 18:10:35 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-host="803eaee5f1c66902ef50fa2b579214f2";
     logging-data="18162"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/UFBZz2Zwh0fOoOdvOkMnP"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/12.0.1
In-Reply-To: <khak7j$cfa$1@dont-email.me>
Cancel-Lock: sha1:EK+dFRbtaZfZ25ZjC9rl75RTRCs=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 3/7/2013 12:55 PM, Tauno Voipio wrote:
> On 7.3.13 4:30 , rickman wrote:
>>
>> Ok, but that is nothing like my application, receiving WWVB.
>>

>
> I'd still be wary of high Q. The antenna is, by definition, in close
> interaction with its surroundings, and a high-Q thing is quickly
> detuned.
>
> At those low frequencies, the atmospheric and other outside noise is
> far larger than the internal noise of an amplifier, so in my opinion,
> the way to go is a loop tuned to 60 kHz with as low Q as easily comes
> without extra attenuation and a good pre-amplifier. The preamp can
> then contain a tuned interstage tank for interference suppression.

I understand. But this is intended to be *very* low power and I haven't
found an amp I can use that is in the low double digits uW power
consumption range. I plan to use no amp and go straight to digital.

--

Rick

```
From 2998681276302393912
X-Google-Thread: 112d1e,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.154.36 with SMTP id vl4mr264252pab.35.1362685178100;
        Thu, 07 Mar 2013 11:39:38 -0800 (PST)
Path: q9ni2712pba.1!nntp.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
newshosting.com!216.196.98.144.MISMATCH!border3.nntp.dca.giganews.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!nntp.supernews.com!news.supernews.com.POSTED!not-for-
mail
NNTP-Posting-Date: Thu, 07 Mar 2013 13:39:37 -0600
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Thu, 07 Mar 2013 11:39:45 -0800
Message-ID: <e4qhj85s8tuj4ja3jrnfe0ldss62q6pfbu@4ax.com>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
<kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-
email.me> <kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me>
<kh9eo7$691$1@dont-email.me> <kha8a5$3db$1@dont-email.me> <khak7j$cfa$1@dont-
email.me> <khal6r$hni$1@dont-email.me>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Lines: 44
X-Trace: sv3-qaLFTPZecuiiOlJw4n2SPX+WjXdGZ+UausedeBJ+ru0gc/
SYgOek0LAFXC0IZtvNviRTDqCC3yzdvDM!AEhT5ftB952NH874erZNOq4C/
GFksbPcQLRclSgLhSWuGumzFlr61EOq2qD+T5hgPxg1Bc64v6Wk!yiiyNA==
```

X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Bytes: 3457
X-Original-Bytes: 3396
X-Received-Bytes: 3604
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Thu, 07 Mar 2013 13:11:03 -0500, rickman <gnuarm@gmail.com> wrote:

>I understand. But this is intended to be *very* low power and I haven't
>found an amp I can use that is in the low double digits uW power
>consumption range. I plan to use no amp and go straight to digital.

I don't think that's possible. Unless your input A/D converter can
operate in the microvolt region, it's going to have a difficult time
dealing with the low signal levels. Fortunately, WWVB is on-off
keying with no amplitude component, so there's no incentive to add an
AGC controlled input amplifier in order to maximize the A/D converters
dynamic range. Still, you need to work with something more than a few
bits above the noise level. Incidentally, after midnight, you WWVB
delivers about 100 uV/meter or more to continental US.
<http://tf.nist.gov/tf-cgi/wwvbmonitor_e.cgi> (Java required)
I've seen it strong enough that I can see the waveform on an
oscilloscope after a 60Khz passive filter.

As for bandwidth, the code is sent at 1 baud (1 bit/sec) which
produces about a 2Hz occupied bandwidth. Therefore, the maximum Q of
the antenna would need to be:
  60Khz/ 2Hz = 30,000
before the antenna bandwidth becomes a problem.

Incidentally, while Googling away merrily, I found this on SPICE
models for a loop antenna. It's not quite in your xformer format, but
it might be useful:
<http://sidstation.loudet.org/antenna-theory-en.xhtml>
I won't pretend to understand what the author is doing until I read it
more carefully.

Incidentally, I used a WWVB code simulator driving a signal generator
to test my receiver:
<http://www.leapsecond.com/notes/wwvb2.htm>

If you're seriously into this, I suggest asking questions on the
time-nuts mailing list:
<https://www.febo.com/mailman/listinfo/time-nuts>

--
Jeff Liebermann   jeffl@cruzio.com

150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From -631288392578633481
X-Google-Thread: 241b302a50,6e79a3cc99799aa3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.8.4 with SMTP id n4mr3998631wia.0.1363061271362;
        Mon, 11 Mar 2013 21:07:51 -0700 (PDT)
MIME-Version: 1.0
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82.197.223.108.MISMATCH!feeder2.cambriumusenet.nl!feed.tweaknews.nl!
216.40.29.245.MISMATCH!novia!border4.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!backlog2.nntp.ams.giganews.com!
border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!nntp.giganews.com!
weretis.net!feeder1.news.weretis.net!feeder.erje.net!eu.feeder.erje.net!eternal-september.org!feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-for-mail
From: "Tim Williams" <tmoranwms@charter.net>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Thu, 7 Mar 2013 16:14:08 -0600
Organization: A noiseless patient Spider
Lines: 64
Message-ID: <khb3cn$d6m$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
<kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-email.me> <kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me>
<kh8pgv$nob$1@dont-email.me> <kha9e1$9qt$1@dont-email.me>
Injection-Date: Thu, 7 Mar 2013 22:12:39 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-host="c5496f60c1e2fe7da0e7ee177c343043";
     logging-data="13526"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/WNvM0jo9qYnV6dqh4wifX"
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:W2IvURkA4wQDjN5I6IYFPdzvtU0=
X-Priority: 3
X-MSMail-Priority: Normal
Bytes: 4390
X-Original-Bytes: 4286

"rickman" <gnuarm@gmail.com> wrote in message
news:kha9e1$9qt$1@dont-email.me...
>> High Q isn't the goal, high radiation resistance is -- the bigger the
>> loop, the better it couples with free space, until it's a wave length
>> around.
>

> I'm not clear on why you keep referring to radiation resistance for a receiving antenna. Does this result in a larger received signal? I am concerned with maximizing the voltage at the input to the receiver.

You're also not concerned about that -- you're concerned about maximizing SNR at the receiver.

A Q of a million will get you gobs of "gain", but if it doesn't couple into free space, it's only the thermal noise of the loss generating that signal.

An antenna with high (expressed as ESR) radiation resistance might have a modest Q, but gives far better SNR because it couples to free space.

Raw volts don't matter, you can always throw more amplifiers at it (as long as they don't corrupt the SNR also!).

> Yes, a higher stepup ratio gets larger signal up to a point. That point is determined by the parasitic capacitance of the receiver input. That capacitance is reflected back through the transformer and affects the antenna tuning. In my simulations it creates a filter with two resonances.

Oooh, capacitance! I like capacitance. Capacitance is easy to cancel...inductors are good at that. :)

What's a nearby inductor working against that capacitance? The current transformer in your simulation, if its inductance can be controlled, would be an excellent candidate. The circuit effectively becomes a double tuned interstage transformer, like,

http://www.jrmagnetics.com/rf/doubtune/doubccl_c.php
This is two resonators coupled with a cap, but any coupling method will do. Capacitive, magnetic (putting the coils end-to-end) or electromagnetic (coils side-by-side) coupling does equally well; normal arrangements have them all in phase, so in practice, unshielded coils will need smaller coupling capacitance than designed, etc.

If you line up that 10p resonance with the operating frequency, you should get gobs more gain. In fact, because the reactances cancel, the driven impedance will be much higher than you were expecting, and so will the gain. The CT might go from, say, 1:8 up to, who knows, 1:20? 1:100?

The bandwidth of that coupling (not necessarily of the antenna itself, so they should be similar bandwidths) is determined by the coupling coefficient (in the coupled-inductors case, simply k) and Q of the components.

If your receiver datasheet specifies an equivalent input circuit, you might be able to estimate the equivalent loss and optimize gain.

Tim

--
Deep Friar: a very philosophical monk.
Website: http://seventransistorlabs.com

```
From -3842078034826374901
X-Google-Thread: 241b302a50,1b267a325419edc2,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.224.160.65 with SMTP id m1mr10379363qax.2.1366359179078;
        Fri, 19 Apr 2013 01:12:59 -0700 (PDT)
MIME-Version: 1.0
Path: ef9ni3775qab.0!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 19 Apr 2013 03:12:58 -0500
From: vu2nan <vu2nan.bb6b208@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: An adjustable RF Ammeter
Date: Fri, 19 Apr 2013 08:52:19 +0100
Message-ID: <vu2nan.bb6b208@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
Lines: 13
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
VW4Z6xNHbWxTlrQ3wiKqilIeCSfqbnNTkD2JVjzL+SYzL5BlaTDaQ3rVsaj16tu72SIJkDj6KN4pKCe!
6T8BpMgnJ8sK5OMhqagcIPyPZGo0EMaeg9eWO6Rk+FBGx5YitVgiIIEXSEaSX0zedAlDqEsqIqbU!EAY=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1108
X-Original-Lines: 7
X-Original-Bytes: 1025
```

Do check this out.

http://nandustips.blogspot.in/2013/04/an-adjustable-rf-ammeter.html

73,

Nandu.

--
vu2nan

From -7949518451636592671
X-Google-Thread: fc2a5,7cd673ab3fbff18
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.224.58.77 with SMTP id f13mr18855453qah.7.1366603819870;
        Sun, 21 Apr 2013 21:10:19 -0700 (PDT)
X-Received: by 10.50.196.227 with SMTP id ip3mr4908484igc.10.1366603819718;
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Path: ef9ni2qab.0!nntp.google.com!gp5no4542290qab.0!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Sun, 21 Apr 2013 21:10:19 -0700 (PDT)
In-Reply-To: <507fac6a$0$21231$ba4acef3@reader.news.orange.fr>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=180.234.147.213;
 posting-account=RmkZXAkAAABQM7NE9Gclm2Q6gfZApDTf
NNTP-Posting-Host: 180.234.147.213
References: <507f27d3$0$23470$ba4acef3@reader.news.orange.fr>
 <fesu7896pv4pmc6rjj1anl9aiipte42n4e@4ax.com>
<507fac6a$0$21231$ba4acef3@reader.news.orange.fr>
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <fb41c31e-43f7-45c7-830e-a5d29b98145d@googlegroups.com>
Subject: Re: CW transmitter
From: kkh271@yahoo.com
Injection-Date: Mon, 22 Apr 2013 04:10:19 +0000
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Hi Everybody

I would like to make a CW Tansmitter, say 20 W, higher HF (25 MHz or more) =
for fishing boat. Is there any idea where I can find circuit and kits. Some=
one with experience in this field would be able to advise effectively. Your=
 help would be very much appreciated.

Regards

Kazi

From 1273176009888444278
X-Google-Language: ENGLISH,UTF8
X-Received: by 10.180.20.105 with SMTP id m9mr2861521wie.5.1368419769153;
        Sun, 12 May 2013 21:36:09 -0700 (PDT)
Path: p18ni106365wiv.0!nntp.google.com!proxad.net!feeder1-2.proxad.net!
feeder.erje.net!us.feeder.erje.net!nntp.club.cc.cmu.edu!micro-heart-of-

```
gold.mit.edu!bloom-beacon.mit.edu!panix!rri.panix.com!robomod!not-for-mail
From: rec-radio-info-request@panix.com (AmateurLogic.TV via rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.
radio.info
Subject: AmateurLogic.TV for Monday 13 May 2013
Followup-To:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Date: Mon, 13 May 2013 00:36:08 EDT
Organization: AmateurLogic.TV
Lines: 15
Approved: RRI Admin <rec-radio-info-request@panix.com>
Message-ID: <001a11c2fe34be0ce304dc920dcb@google.com>
NNTP-Posting-Host: panix6.panix.com
Mime-Version: 1.0
X-Trace: reader1.panix.com 1368419768 18067 166.84.1.6 (13 May 2013 04:36:08 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 13 May 2013 04:36:08 +0000 (UTC)
X-RRI-Policy: http://www.panix.com/~rram/usenet/rri/index.html
X-RRI-Info-1: Send submissions to             rec-radio-info@panix.com
X-RRI-Info-2: Send technical complaints to    rec-radio-info-request@panix.com
X-RRI-Info-3: Send complaints about policy to rec-radio-info-request@panix.com
X-Comment-1: The moderators do not necessarily agree or disagree with this
article.
X-Comment-2: Moderators do not verify the accuracy of posted information.
X-Comment-3: Acceptance does not convey approval of any external references.
X-Robomod: STUMP, ichudov@algebra.com (Igor Chudov), C++/Perl/Unix Consulting
X-Moderation-1: Hassle-Free commercial hosting of moderation sites available
X-Moderation-2: See http://www.algebra.com/~ichudov/stump
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
        d=google.com; s=20120113;
        h=mime-version:x-received:sender:precedence:message-id:date:subject
         :from:to:content-type;
        bh=7YeO1XpBLcAy5nccl0AdtHNC/c7Z/1iQOOECsGF1kiw=;
        b=QxgcFSx63QYOf+Auh0k/mO7hW3lwiqQ/F1Vq3sSgjjR8TJSngofBt5YHom1YtrKMaN
         Z3nzRu6O3aRFtys/vwodTSfATJsocouTSCPsLJBHfE7H4Vqu3qtWGbgJqHGgxWyUgCDp
         ZAdfndPLjuVHsvoXvuasBWgLlU0ZcfIWMAbVtOa/i7J0MTPH4T0RpsS8tNUhZc2wkJ4F
         iYC/Q0aioP+k5ldc5A+l2EZjJHEHsoj/OC757a6VreYCiAKV821VpwQEeyAZOaw6sQ0S
         QJeVAKv0nW70GssZw7si7c25aoNsJ13MS9+3HVh12MrjS2YXuY1MpmkoMlWW12EbQ+E5
         7aeA==
X-StripMime: Non-text section removed by stripmime
Content-Type: text/plain; charset=UTF-8; format=flowed; delsp=yes
```

AmateurLogic.TV

//
AmateurLogic.TV Episode 54

Posted: 12 May 2013 03:00 AM PDT
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic54_hi.wmv

We explore three different Remote Control options to control a station from

anywhere in the world. George and Tommy prepare for Dayton Hamvention. And
some really funny stuff…
1:10:00 of interesting and entertaining ALTV.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/
amlogic54_hi.wmv

```
From 5114901542357580443
X-Google-Thread: 241b302a50,91359c1bc9ba839,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.13.3 with SMTP id d3mr4611788pac.40.1368439971601;
        Mon, 13 May 2013 03:12:51 -0700 (PDT)
MIME-Version: 1.0
Path: bp1ni2135pbd.1!nntp.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 13 May 2013 05:12:50 -0500
From: Camerart <Camerart.bd67228@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Converting FM Transistor radio to 350khz
Date: Mon, 13 May 2013 10:53:43 +0100
Message-ID: <Camerart.bd67228@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
Lines: 13
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-QetX+FUEEE8fPA8sywentwUuq7iQ5TgqBxI2i8iFHN5iO/
cuweJ9DtPTWsuY8vtRMKxV6F0OhSieW0P!M19bk+kxoKePiatzz+UL/
eI+zdRqNnZeqcwWNNmlXuokDLKsaRtGCfyMT7WvIv3qrBj+Ng2ZfcBm!QzxpIw==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1221
X-Original-Lines: 5
X-Original-Bytes: 1138
X-Received-Bytes: 1301
```

Hi,

I would like to know if it is possible to modify (simply) a transistor
radio so it can pick up frequencies on other ranges. I particularly
want 300 to 400 khz FM.

Cheers, Camerart.

--
Camerart

```
From -8950599999366862812
X-Google-Thread: 241b302a50,91359c1bc9ba839
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.224.59.205 with SMTP id m13mr18998155qah.7.1368455582162;
        Mon, 13 May 2013 07:33:02 -0700 (PDT)
MIME-Version: 1.0
Path: y6ni39305qax.0!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 13 May 2013 09:33:01 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Camerart.bd67228@radiobanter.com>
Subject: Re: Converting FM Transistor radio to 350khz
Date: Mon, 13 May 2013 10:33:01 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
Message-ID: <VM-dnY4Psu8AZA3MnZ2dnUVZ_j-dnZ2d@earthlink.com>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.148.196.44
X-Trace: sv3-Qw8B0AkzTMGacZS1e/MJlwGJZAw/
o2yyWU57PxVNb39yrZfARVlb4hb7kZOp7IcmTPFr9OmWMS8gAjU!
kNpnp5HsSTHM1Ce7NYXSjU7InINN18TuPfuD3Iq6UZEgSSawXnXQ9BPG6LMKmwtl6rIxT2dSiCmJ!
Ldg6YLi8t9oXOR4mirQd
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1749
X-Original-Bytes: 1688
```

"Camerart" <Camerart.bd67228@radiobanter.com> wrote in message
news:Camerart.bd67228@radiobanter.com...

>
> Hi,
>

```
> I would like to know if it is possible to modify (simply) a transistor
> radio so it can pick up frequencies on other ranges.  I particularly
> want 300 to 400 khz FM.
>
> Cheers, Camerart.
>

It would not be very easy to do that.  It would be easier to take some of
the ICs that are designed around those frequencies and build a FM receiver.

It is easy to modify a FM receiver to go from about 50 to 120 MHZ.  Outside
this range requires more work.
```

```
From 6211751701208186944
X-Google-Thread: 241b302a50,91359c1bc9ba839
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.224.215.194 with SMTP id hf2mr19534587qab.0.1368473368727;
        Mon, 13 May 2013 12:29:28 -0700 (PDT)
Path: y6ni40015qax.0!nntp.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!usenet.blueworldhosting.com!news.ripco.com!rahul.net!
wasp.rahul.net!rahul.net!news.kjsl.com!usenet.stanford.edu!usenet-
its.stanford.edu!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting FM Transistor radio to 350khz
Date: Mon, 13 May 2013 15:29:45 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 45
Sender: et472@bas1-montreal43-2925257137.dsl.bell.ca
Message-ID: <alpine.LNX.2.02.1305131520350.18728@darkstar.example.org>
References: <Camerart.bd67228@radiobanter.com>
NNTP-Posting-Host: bas1-montreal43-2925257137.dsl.bell.ca
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1368473366 21967 174.91.225.177 (13 May 2013 19:29:26 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 13 May 2013 19:29:26 GMT
In-Reply-To: <Camerart.bd67228@radiobanter.com>
User-Agent: Alpine 2.02 (LNX 1266 2009-07-14)
Bytes: 3254
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

On Mon, 13 May 2013, Camerart wrote:

>
> Hi,
>
> I would like to know if it is possible to modify (simply) a transistor
> radio so it can pick up frequencies on other ranges.  I particularly
```

> want 300 to 400 khz FM.
>

What are you trying to do?

There's virtually nothing at 300 to 400KHz, and it won't be FM. So I don't know if you typed that wrong, or have some other scheme in mind.

There was a time when retuning FM broadcast radios was't uncommon, move them to the "public service band" or the amateur 2M band. Shorten the front end coils (or spread them out more, they would generally be air wound) or see if the trimmer capacitors are such that they can returne to the other range (higher in frequency). But there were problems. The most important is that FM broadcast is wideband FM, while the 2way of the public service band or 2m amateur is narrow band. At best little audio would be recovered. The FM broadcast signals are wideband, so the receivers are wideband, so even if you could recover the modulation, adjacent signals could interfere.

If you had a need for a wideband FM receiver, then yes, the front end could be modified or a converter put ahead of it.

But it's still not clear what you want. The 300 to 400KHz in your post suggests you want to add an FM detector to an existing radio, that happens to have a 455KHz or so IF. If that's the case, find something with a matching IF that is for FM. COrdless phones, better baby monitors, better 49MHz walkie talkies, old clunky cellphones, they all have FM IF strips, and generally landed at 455KHz or 450KHz. You could extract the FM IF strip and use it as a module. WHether it's 455KHz or 450Khz would vary on the design, you might have to poke around, or make do witha 450KHz IF strip (which may not matter, since many existing receivers in the solid state age use 450KHz anyway). Then just connect it to the existing radio's IF strip.

More recent equipment is likely to use some other scheme, or use such tiny and high density components that you can't get anything useable out of it.

Michael VE2BVW

```
From 7420278578433944763
X-Google-Thread: 241b302a50,91359c1bc9ba839
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.224.10.6 with SMTP id n6mr20156367qan.4.1368498206810;
        Mon, 13 May 2013 19:23:26 -0700 (PDT)
Path: y6ni40995qax.0!nntp.google.com!border1.nntp.dca.giganews.com!
border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
nx02.iad01.newshosting.com!newshosting.com!69.16.185.16.MISMATCH!
npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!
en-nntp-16.dc1.easynews.com.POSTED!not-for-mail
```

```
From: Arid ace <nonsmoker@freedom.smokes.oil>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting FM Transistor radio to 350khz
Message-ID: <ah63p81a4u62eteq443shfehmsc2c0g23t@4ax.com>
References: <Camerart.bd67228@radiobanter.com>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Lines: 25
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Mon, 13 May 2013 21:23:21 -0500
X-Received-Bytes: 1881
Bytes: 2074
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Mon, 13 May 2013 10:53:43 +0100, Camerart <Camerart.bd67228@radiobanter.com>
wrote:

>
>Hi,
>
>I would like to know if it is possible to modify (simply) a transistor
>radio so it can pick up frequencies on other ranges.  I particularly
>want 300 to 400 khz FM.
>
>Cheers, Camerart.


An FM radio usually has an IF of 10.7 MHz so in order to use it between 300 and
400 KHz would require to change the value of the LO to a fixed 11.05 or 10.35
MHz, and to change the input circuit to a bandpass for the desired range.
Problem is that the LO will be relatively close to the IF and could swamp it,
especially when the mixer doesn't suppress the LO (like in a DBM) and the IF
filters don't have a good enough stopband rejection. It probably is simpler to
use a dedicated FM demodulator IC like (antique) TBA120, CA3089 etc. as their
sensitivity will be high enough. At those low frequencies, in principle it is
also possible to use the four CMOS EXOR (or even NAND) gates, as preamp, phase
detector and VCO, for a comparable sensitivity.

Jan


From 390463157623656622
X-Google-Thread: 241b302a50,91359c1bc9ba839
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.191.130 with SMTP id gy2mr4595874pac.19.1368516181013;
        Tue, 14 May 2013 00:23:01 -0700 (PDT)
MIME-Version: 1.0
```

```
Path: bp1ni2247pbd.1!nntp.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!
feeder.erje.net!eu.feeder.erje.net!newsfeed.freenet.ag!news2.euro.net!
newsgate.cistron.nl!newsgate.news.xs4all.nl!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Converting FM Transistor radio to 350khz
References: <Camerart.bd67228@radiobanter.com>
User-Agent: slrn/pre1.0.0-18 (Linux)
Message-ID: <slrnkp3pik.ea6.nomail@xs8.xs4all.nl>
Date: 14 May 2013 07:23:00 GMT
Lines: 11
NNTP-Posting-Host: 2001:888:0:1::888
X-Trace: 1368516180 news.xs4all.nl 15955 [2001:888:0:1::888]:60747
X-Complaints-To: abuse@xs4all.nl
X-Received-Bytes: 1000

Camerart <Camerart.bd67228@radiobanter.com> wrote:
>
> Hi,
>
> I would like to know if it is possible to modify (simply) a transistor
> radio so it can pick up frequencies on other ranges.  I particularly
> want 300 to 400 khz FM.
>
> Cheers, Camerart.

You are sure you didn't mean to write "300 to 400 MHz FM"?


From 2206912651999078149
X-Google-Thread: 241b302a50,1c7f5eff4b5f2f6f,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.20.105 with SMTP id m9mr724354wie.5.1368533576872;
        Tue, 14 May 2013 05:12:56 -0700 (PDT)
MIME-Version: 1.0
Path: p18ni108920wiv.0!nntp.google.com!goblin3!goblin.stu.neva.ru!
news.netfront.net!newsgate.cuhk.edu.hk!news.neu.edu.cn!news.byr.edu.cn!
feeds.phibee-telecom.net!newsfeed.sovam.com!takemy.news.telefonica.de!
telefonica.de!texta.sil.at!geiz-ist-geil.priv.at!news.iks-jena.de!
newsfeed1.eu.ignite.net!fu-berlin.de!feeder.erje.net!eu.feeder.erje.net!
news.glorb.com!border3.nntp.dca.giganews.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 14 May 2013 07:12:53 -0500
From: vu2nan <vu2nan.bd7dfc8@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Foxhole Radio detector variant
Date: Tue, 14 May 2013 12:21:31 +0100
Message-ID: <vu2nan.bd7dfc8@radiobanter.com>
Organization: RadioBanter.com
```

```
Lines: 15
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-66n2VkY11DNGN4Oi4P58RhX6CgUWGYRNy4csFK27hgA8YeGyZG6cDQOItquIiDZQDXKj/
622e9MjBz6!8kZKXuhn96wGjEU1HE7lI+PNIHqXicLmxcLNQSoN9iJI+Gem/
vTZ5KyuWYefSyV0QqjKuTP0rqSQ!+t0=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 9
X-Original-Bytes: 1013
```

Please do check this out.

http://tinyurl.com/cccnh6d

Many thanks.

73,

Nandu.

--
vu2nan

```
From 8605470006737358834
X-Google-Thread: 241b302a50,1c7f5eff4b5f2f6f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.224.42.141 with SMTP id s13mr21147480qae.3.1368537172496;
        Tue, 14 May 2013 06:12:52 -0700 (PDT)
MIME-Version: 1.0
Path: y6ni42525qax.0!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 14 May 2013 08:12:51 -0500
From: Channel Jumper <Channel.Jumper.bd7edd8@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Foxhole Radio detector variant
Date: Tue, 14 May 2013 13:22:51 +0100
Message-ID: <Channel.Jumper.bd7edd8@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
References: <vu2nan.bd7dfc8@radiobanter.com>
```

Lines: 28
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-2VvgHAZuj6ks/ollrDMY3WDnMVQ0jFA/
hKDJFjuw4iYvlDbsRXnlTkQa6dOa4Q0ZVJh8JRVqJqSqUUN!Y+MKvJzpVZEE6V7/
ZmWAInKvoAABsvFCn8TyRLnsnUCE6JtgQERNsiupAULFGxKCC7t46A6VQ0us!xNjxCqhxSNVHgg==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1623
X-Original-Lines: 18
X-Original-Bytes: 1540

vu2nan;804917 Wrote:
> Please do check this out.
>
> http://tinyurl.com/cccnh6d
>
> Many thanks.
>
> 73,
>
> Nandu.

Thanks

That is a real old web site - saw it many times before.

The problem is - not many safety razor blades anymore - other then
cardboard cutters or utility knife blades.

With the commercial broadcast bands going digital - it is hard to find a
good signal anymore.. Even KDKA is hard to hear at night with the
digital signal of another station in about the same exact place.

--
Channel Jumper

From -313145326713570
X-Google-Thread: 241b302a50,1c7f5eff4b5f2f6f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.210.161 with SMTP id mv1mr904810wic.1.1368540772539;
        Tue, 14 May 2013 07:12:52 -0700 (PDT)
MIME-Version: 1.0

```
Path: hg5ni109174wib.1!nntp.google.com!feeder1-2.proxad.net!proxad.net!
feeder2-2.proxad.net!nx02.iad01.newshosting.com!newshosting.com!
216.196.98.144.MISMATCH!border3.nntp.dca.giganews.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 14 May 2013 09:12:51 -0500
From: vu2nan <vu2nan.bd7fbe8@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Foxhole Radio detector variant
Date: Tue, 14 May 2013 14:17:37 +0100
Message-ID: <vu2nan.bd7fbe8@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
References: <vu2nan.bd7dfc8@radiobanter.com>
<Channel.Jumper.bd7edd8@radiobanter.com>
Lines: 28
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
tryh5mzp7Eqv4EsFxdVzCf5SMwotXMgtlkXFmyx7+QZFeXog41aBPFyzc2A9Lws5CupV80p8H9woIva!
jWPGvzVs9Ekj+3MT+epqTRix37UFcaFO6WYgSEKwD7TQGkra2y+H4djz9ZPfIRNPWr8omg9tMTr7!hNg=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1693
X-Original-Lines: 17
X-Original-Bytes: 1610
```

Channel Jumper;804920 Wrote:

> Thanks
>
> That is a real old web site - saw it many times before.
>
> The problem is - not many safety razor blades anymore - other then
> cardboard cutters or utility knife blades.
>
> With the commercial broadcast bands going digital - it is hard to find a
> good signal anymore.. Even KDKA is hard to hear at night with the
> digital signal of another station in about the same exact place.

Hi,

You are absolutely correct. The way things are changing, I wonder if
future generations will appreciate old tech!

Thanks.

Regards,

Nandu.

--
vu2nan

```
From -7700843195090987146
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.76.235 with SMTP id n11mr2933543wiw.0.1363048367708;
        Mon, 11 Mar 2013 17:32:47 -0700 (PDT)
Path: g1ni60393wig.0!nntp.google.com!goblin3!goblin2!goblin1!goblin.stu.neva.ru!
eternal-september.org!feeder.eternal-september.org!mx05.eternal-
september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Mon, 11 Mar 2013 20:32:23 -0400
Organization: A noiseless patient Spider
Lines: 53
Message-ID: <khlt0e$r78$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
<kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-
email.me> <kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me>
<kh9eo7$691$1@dont-email.me> <kha8a5$3db$1@dont-email.me> <khak7j$cfa$1@dont-
email.me> <khal6r$hni$1@dont-email.me>
<e4qhj85s8tuj4ja3jrnfe0ldss62q6pfbu@4ax.com> <khdha1$2bb$2@dont-email.me>
<ma7oj855l31sc54nsbr3uqo8k0pa2um68j@4ax.com> <khisod$ljr$1@dont-email.me>
<slrnkjraek.etc.nomail@xs8.xs4all.nl>
Mime-Version: 1.0
Injection-Date: Tue, 12 Mar 2013 00:31:10 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-
host="d3d27bce6b0c980541322059a2377816";
     logging-data="27880"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+VrWJS5Ko7GipPO2yd/GY8"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
In-Reply-To: <slrnkjraek.etc.nomail@xs8.xs4all.nl>
Cancel-Lock: sha1:sR5gUlUuEot95JpVjAUYpR1q4Jg=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 3/11/2013 5:54 AM, Rob wrote:
> rickman<gnuarm@gmail.com> wrote:
>> Funny, last night my two RCC's both updated like they should. One is an
>> analog clock and runs at 8x speed to get the hour ahead. In the fall it
>> does this to go 11 hours ahead. Quite a sight! They both did the job,

>> but my PC didn't update until it had been on for awhile, without being
>> connected to the I'net.
>
> In Europe we have DCF-77 which is at 77.5 kHz.
> The trouble receiving it is similar to WWVB.
> I have several clocks in the house but some of them have only very
> weak sync. Also, to save battery they only sync once every 12 hours
> or so. At DST change, they may display the wrong time for a couple
> of days, especially the one in the kitchen. I need to relocate it
> to a place where I know there is better signal.

Yes, noise can be a problem I understand. I am hoping to get the bandwidth down much more than most receivers so the noise won't be so big a factor. With a signal bandwidth of a handful of Hz, it should be possible.

> The problem is (harmonics of) switching power supplies here as well.
> Once I had a big open-frame SMPS that I used to power my radio equipment
> and that switched around 25 kHz. Under the right circumstances, the
> 3rd harmonic wiped away all DCF-77 receiving within 5 meters or so.
> Old CRT computer monitors also were problematic.
>
> I presume you have some specific needs, low power being among them,
> to stay focussed on WWVB for your clock sync. Most computer users
> would use GPS now, or simply sync via the internet. GPS has a different
> receiving conditions problem, but at least it isn't so much affected
> by prominently present local interference.

Yes, this is actually a demo to illustrate how low power an FPGA can be. An FPGA will run both the clock and the receiver and use power from the environment rather than batteries.

> Of course a GPS receiver requires a lot more power than a WWVB receiver,
> although this has come down over the years.   Using some sort of on/off
> switching (syncing with the received time and then having it run free
> for some time) may help a bit, the battery powered radio clocks do
> that as well.

Yes, the receiver itself only has to run part of the time, >10% perhaps. The clock has to run 100% obviously. Interesting enough, the FPGA has a base power consumption (0 Hz) of nearly 50% of the power budget and I am confident it will still make the goal.

--

Rick

From -4351667686800199974
X-Google-Thread: 112d1e,6e79a3cc99799aa3
X-Google-NewGroupId: yes

X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.161.163 with SMTP id xt3mr8894050pbb.7.1363051250619;
        Mon, 11 Mar 2013 18:20:50 -0700 (PDT)
Path: q9ni12026pba.1!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 11 Mar 2013 20:20:49 -0500
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Mon, 11 Mar 2013 18:21:22 -0700
Message-ID: <cfvsj8lnrhu21sqqt74u12pjk1oast4b40@4ax.com>
References: <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-email.me>
<kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me> <kh9eo7$691$1@dont-email.me> <kha8a5$3db$1@dont-email.me> <khak7j$cfa$1@dont-email.me>
<khal6r$hni$1@dont-email.me> <e4qhj85s8tuj4ja3jrnfe0ldss62q6pfbu@4ax.com>
<khdha1$2bb$2@dont-email.me> <ma7oj855l31sc54nsbr3uqo8k0pa2um68j@4ax.com>
<khisod$ljr$1@dont-email.me> <bjfqj8lcoqdtl2ufse5m51341ap6j1lt4i@4ax.com>
<khlkm1$f80$1@dont-email.me>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Lines: 45
X-Trace: sv3-9mkOD/T96FcTCEcUzdgeZVc+st6oUiLgQf1ENjy6ANXIGtJDPZ5O+jB5Q7qRspk0/
D8rAdNPodWwVPA!DxKeNvAuqVpFJdQA5DCnpo08tEZnTPvEzBmoUk1wN/
KmRXGgBEid44cr0or7YT89qbmeqbOddVLR!S7W+3A==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 3715
X-Original-Bytes: 3654
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Mon, 11 Mar 2013 18:10:23 -0400, rickman <gnuarm@gmail.com> wrote:

>> So, let's do the math and
>> guesswork.
>> <http://vk1od.net/calc/FS2RPCalc.htm>
>> I plugged in some guesses and recollections as to what the antenna
>> (Q=30) and amp (+20dB gain) were doing and got:
>> <http://802.11junk.com/jeffl/crud/WWVH-rx-signal-estimate.jpg>
>> -15.8dBm or about 36mv into 50 ohms. I amplified this about 20dB with
>> two or three U310 JFET's (I forgot what I did) to about 3V rms on the
>> scope. I didn't bother with the 50 ohm to scope input Z conversion.
>> Most of what I saw was noise, noise, and more noise. However, if I
>> was patient, I could see the data fade in an out. As I vaguely

>> recall, it was less than 1 division or about 0.1v change.
>
>I'm not sure why you used 1900 meters for the distance. I also don't
>get why you used 5 ohms for the receiver input impedance.

(Quick reply... still working on my expanding plumbing problem).

The 1900 meters is because I screwed up. It should be about 1900Km
from San Francisco to Denver. However, any distance greater than zero
will suffice for this calculation. The controlling numbers are the
100uV/m field strength, the -3dB antenna gain, and the receiver
bandwidth (5Hz). All of the other numbers can change without having
any effect on the recovered power. The 5 ohms rx input Z was because
the original antenna that I used, was a base loaded 100ft "whip"
antenna with a rather impedance. I couldn't decide if the field
strength to receive power form wanted the antenna impedance before the
50 ohm matching network, or if it treated the matching as part of the
antenna. I flipped a coin and chose 5 ohms. I guess for a loop,
100-200 ohms would be more appropriate. Again, the value makes no
difference in the calculations.

(Back to plumbing and fixing the 48" farm jack that my neighbor
borrowed and returned looking like a pretzel).

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From 958561284556616649
X-Google-Thread: 112d1e,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes:
gid1617473143,gid4baf9708d4,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.138.165 with SMTP id qr5mr8933414pbb.8.1363052683321;
        Mon, 11 Mar 2013 18:44:43 -0700 (PDT)
Path: jm3ni45375pbb.0!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 11 Mar 2013 20:44:42 -0500
Date: Mon, 11 Mar 2013 21:44:41 -0400
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Organization: http://home.earthlink.net/~mike.terrell/index.html

```
 http://home.earthlink.net/~abdk.castle/ Flikr:
 http://www.flickr.com/photos/materrell/ Skype: michael.a.terrell
X-Mailer: Mozilla 4.8 [en] (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
References: <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-email.me>
<kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me> <kh9eo7$691$1@dont-
email.me> <kha8a5$3db$1@dont-email.me> <khak7j$cfa$1@dont-email.me>
<khal6r$hni$1@dont-email.me> <e4qhj85s8tuj4ja3jrnfe0ldss62q6pfbu@4ax.com>
<khdha1$2bb$2@dont-email.me> <ma7oj855l31sc54nsbr3uqo8k0pa2um68j@4ax.com>
<khisod$ljr$1@dont-email.me> <bjfqj8lcoqdtl2ufse5m51341ap6j1lt4i@4ax.com>
<khlkm1$f80$1@dont-email.me> <cfvsj8lnrhu21sqqt74u12pjk1oast4b40@4ax.com>
X-NewsProxy: 1.2.5
Message-ID: <OvudnQ07bLcXFaPMnZ2dnUVZ_o2dnZ2d@earthlink.com>
Lines: 8
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.170.161.54
X-Trace: sv3-GxMJ5yriPdtiIytBhMDjprVeIKyN8/QdopwNAHZwWtUF6OLJhha/Fn6WTpl4b/
wB8lREA2sWXwuRxHi!fl9svew7DuK9RYfV3hx6eloL4s+ADnhEIxsYqAhkMFMN9G3mQhItClLvNV/
EwOtAEO74pH8SKUYh!WvaDrqaaHvenlIYFdmnVvhOZJtjELcLWIzJg29Y=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 2070
X-Original-Bytes: 2009
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
```

Jeff Liebermann wrote:

> (Back to plumbing and fixing the 48" farm jack that my neighbor
> borrowed and returned looking like a pretzel).

It sounds like your neighbor doesn't know jacks. ;-)

```
From -3927163688333581874
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.138.165 with SMTP id qr5mr8999162pbb.8.1363055303545;
        Mon, 11 Mar 2013 19:28:23 -0700 (PDT)
Path: jm3ni45289pbb.0!nntp.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!
usenet.stanford.edu!usenet-its.stanford.edu!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
```

Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Mon, 11 Mar 2013 22:28:17 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 30
Sender: et472@bas11-montrealak-1177756035.dsl.bell.ca
Message-ID: <alpine.LNX.2.02.1303112217340.5650@darkstar.example.org>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
<kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-email.me> <kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me>
<kh9eo7$691$1@dont-email.me>
<kha8a5$3db$1@dont-email.me> <khak7j$cfa$1@dont-email.me> <khal6r$hni$1@dont-email.me> <e4qhj85s8tuj4ja3jrnfe0ldss62q6pfbu@4ax.com> <khdha1$2bb$2@dont-email.me> <ma7oj855l31sc54nsbr3uqo8k0pa2um68j@4ax.com> <khisod$ljr$1@dont-email.me> <slrnkjraek.etc.nomail@xs8.xs4all.nl>
<khlt0e$r78$1@dont-email.me>
NNTP-Posting-Host: bas11-montrealak-1177756035.dsl.bell.ca
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1363055302 8336 70.51.33.131 (12 Mar 2013 02:28:22 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 12 Mar 2013 02:28:22 GMT
In-Reply-To: <khlt0e$r78$1@dont-email.me>
User-Agent: Alpine 2.02 (LNX 1266 2009-07-14)
X-Received-Bytes: 2928
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

On Mon, 11 Mar 2013, rickman wrote:

> Yes, this is actually a demo to illustrate how low power an FPGA can be. An FPGA will run both the clock and the receiver and use power from the environment rather than batteries.
>

But this is all relative. My first "atomic clock" ran on the same set of AA batteries for five or six year, and the second set is now four years old. The Centrios "atomic" wall clock (digital) uses one AA battery, I'm not sure how long that's been in. My watch is a Casio Waveceptor, 3 or 4 years old, which has a solar cell to refresh the battery and it's never been less than fully charged.

Fice or six years seems almost as good as 'shelf life" and while I had a small LCD clock (not "atomic") that seemed to run a long time on an AA cell, I'm not sure it was all that lower current than the 'atomic clock".

I'm more impressed by the clock running off 1.5v than that the batteries last reasonably long.

These things are amazing, considering the effort people used to put into making WWVB receivers, admittedly the "atomic clock" craze has very much benefitted from the power increase at the station.

I do orient them, but here in Montreal it's the rare night that they don't sync up, and I don't think since I've had more than one that they all miss

```
the sync.

   Michael




From -3699673180479137713
X-Google-Thread: 241b302a50,91359c1bc9ba839
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.144.98 with SMTP id sl2mr5269682pab.12.1368555418551;
        Tue, 14 May 2013 11:16:58 -0700 (PDT)
Path: ln4ni2071pbb.0!nntp.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!
usenet.stanford.edu!news.kjsl.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting FM Transistor radio to 350khz
Date: Tue, 14 May 2013 14:17:16 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 17
Sender: et472@bas1-montreal43-2925257137.dsl.bell.ca
Message-ID: <alpine.LNX.2.02.1305141416500.21232@darkstar.example.org>
References: <Camerart.bd67228@radiobanter.com>
<slrnkp3pik.ea6.nomail@xs8.xs4all.nl>
NNTP-Posting-Host: bas1-montreal43-2925257137.dsl.bell.ca
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1368555416 14382 174.91.225.177 (14 May 2013 18:16:56 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 14 May 2013 18:16:56 GMT
In-Reply-To: <slrnkp3pik.ea6.nomail@xs8.xs4all.nl>
User-Agent: Alpine 2.02 (LNX 1266 2009-07-14)
X-Received-Bytes: 1439
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

On Tue, 14 May 2013, Rob wrote:

> Camerart <Camerart.bd67228@radiobanter.com> wrote:
>>
>> Hi,
>>
>> I would like to know if it is possible to modify (simply) a transistor
>> radio so it can pick up frequencies on other ranges.  I particularly
>> want 300 to 400 khz FM.
>>
>> Cheers, Camerart.
>
> You are sure you didn't mean to write "300 to 400 MHz FM"?
>
I'm certainly waiting for that clarification.

   Michael  VE2BVW
```

```
From -2563033607502959840
X-Google-Thread: 241b302a50,7767e949d51887e7,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.85.5 with SMTP id d5mr2936448wiz.0.1369279390874;
        Wed, 22 May 2013 20:23:10 -0700 (PDT)
MIME-Version: 1.0
Path: hv6ni10048wib.1!nntp.google.com!feeder1.cambriumusenet.nl!
82.197.223.108.MISMATCH!feeder2.cambriumusenet.nl!feed.tweaknews.nl!
194.109.133.81.MISMATCH!newsfeed.xs4all.nl!newsfeed2.news.xs4all.nl!xs4all!
border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!nntp.giganews.com!
news.panservice.it!feeder.erje.net!eu.feeder.erje.net!eternal-september.org!
feeder.eternal-september.org!mx05.eternal-september.org!frotz.eternal-
september.org!.POSTED!not-for-mail
From: davidmylastname@acm.org (David Griffith)
Newsgroups: rec.radio.amateur.homebrew
Subject: seeking a good 1.25m repeater
Date: Wed, 15 May 2013 07:19:07 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 15
Message-ID: <kmvctb$fng$1@frotz.eternal-september.org>
Injection-Date: Wed, 15 May 2013 07:19:07 +0000 (UTC)
Injection-Info: frotz.eternal-september.org; posting-
host="696fc6bcf0c861de50cc62f6b42db61b";
     logging-data="16112"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+XhH6NNMk2YI+jhmdh450R"
User-Agent: tin/1.9.6-20100522 ("Lochruan") (UNIX) (Linux/2.6.18.8-linode22
(i686))
Cancel-Lock: sha1:G4jj6tlQ0Rj1MEwb/DyE32Jn0DE=
```

I'm interested in putting together a 1.25m repeater sometime in the next year and I'm casting about for possible solutions. It seems that I have two routes: 1) modify a GE Mastr II or 2) find a SEA ESP-1000. Using modified GE Mastr IIs is a well-regarded way of doing it, but I am unfamiliar with the SEA ESP-1000. I'm slightly inclined to get one of those because it seems that I can get one all ready to go for slightly more than an unmodified Mastr II AND it's all in a convenient rackmount chassis.

There seems to be a dearth of information on the ESP-1000 though. Can I get some pointers to manuals or whatever else may be helpful?

--
David Griffith
davidmylastname@acm.org   <--- Put my last name where it belongs

---

```
From 5666946068200673655
X-Google-Thread: fc2a5,6e79a3cc99799aa3
X-Google-NewGroupId: yes
```

```
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.138.165 with SMTP id qr5mr11280031pbb.8.1363132854663;
        Tue, 12 Mar 2013 17:00:54 -0700 (PDT)
Path: q9ni13690pba.1!nntp.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news.glorb.com!news.astraweb.com!
border5.newsrouter.astraweb.com!not-for-mail
From: Jim Mueller <wrongname@nospam.com>
Subject: Re: Antenna Simulation in LTspice
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
     <kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me>
     <kgr44f$5lr$7@dont-email.me> <kgrlvp$rgk$1@dont-email.me>
     <kh83nl$uqo$1@dont-email.me> <kh8pgv$nob$1@dont-email.me>
     <kha9e1$9qt$1@dont-email.me>
     <5139584d$0$54952$c3e8da3$e408f015@news.astraweb.com>
     <khdkgg$lbg$1@dont-email.me> <khdl8n$pf9$1@dont-email.me>
     <khdmfh$vkr$2@dont-email.me>
     <513d3275$0$7262$c3e8da3$b1356c67@news.astraweb.com>
     <khk1s9$q1c$1@speranza.aioe.org>
User-Agent: Pan/0.136 (I'm far too busy being delicious; GIT 926a150
     git://git.gnome.org/pan2)
MIME-Version: 1.0
Date: 13 Mar 2013 00:00:54 GMT
Lines: 57
Message-ID: <513fc1b6$0$54939$c3e8da3$e408f015@news.astraweb.com>
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 3dd77588.news.astraweb.com
X-Trace: DXC=68b<OXfc@U[;0`5D\QI41SL?
0kYOcDh@Z9OWGAmZaQhTK6i0=;2aRW^E[^3AaXCNS[h1mWJX8RLZ]F:@e5`;C]CQLG8M8B7c5MVo41k6@K
6R;S
Bytes: 4133
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

On Mon, 11 Mar 2013 07:41:41 +0000, Jef wrote:


>> The second one is a current transformer.  They both consist of coils
>> around a magnetic core driving some kind of load.  The difference is
>> the source of power and that causes them to behave very differently as
>> well as being constructed differently.
>
>
> What you are describing is a difference in the source NOT a difference
> in the transformer!
>
> The transformer behaves exactly the same in both cases, the inversion is
> merely down to ohms law.
>
> A transformer is a transformer. The only time it gets tricky is when the
> core and saturation etc etc  comes into play.
```

>
> Jeff

Very true. A transformer is a transformer and all obey the same equations. But that doesn't prevent real transformers from being called voltage or current transformers. And it doesn't prevent them from being constructed differently or their outputs behaving differently.

Part of the problem is that real-world AC current sources are rather rare. So current transformers are seldom connected as shown in the example that was given. They are usually connected in series between a voltage source and some other load, frequently for the purpose of measuring the current. This is what gives rise to the different constructions.

Voltage transformers have to withstand the source voltage across their primaries so they have to have enough turns to prevent the core from saturating. The actual number of turns depends on the voltage, frequency, and core size and material.

Current transformers are generally constructed to have minimum primary voltage drop so they have few turns on the primary, frequently only one. Considerations of frequency, core size and material still apply, of course. The differences in the name and construction are determined by the intended use. Many current transformers consist of a secondary winding on a toroidal core. The primary is supplied by the user by passing a wire through the hole in the core; thus, one turn.

For a loop antenna with a secondary, there is voltage across the antenna winding and current through it. Which is the secondary responding to? The current, since this is what produces the magnetic field. But, since this current is flowing through some number of turns and developing a voltage, it could also be considered a voltage transformer, which is why I said the distinction is blurred.

--
Jim Mueller wrongname@nospam.com

To get my real email address, replace wrongname with dadoheadman.
Then replace nospam with fastmail. Lastly, replace com with us.

```
From -5478867168884007254
X-Google-Thread: 241b302a50,7767e949d51887e7
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.11.232 with SMTP id t8mr724732wib.3.1369279450067;
        Wed, 22 May 2013 20:24:10 -0700 (PDT)
MIME-Version: 1.0
Path: fw11ni1137wic.0!nntp.google.com!feeder1.cambriumusenet.nl!
82.197.223.108.MISMATCH!feeder2.cambriumusenet.nl!feed.tweaknews.nl!
194.109.133.86.MISMATCH!newsfeed.xs4all.nl!newsfeed3.news.xs4all.nl!xs4all!
```

```
border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!nntp.giganews.com!
news.panservice.it!feeder.erje.net!us.feeder.erje.net!news.glorb.com!
npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!post02.iad.highwinds-media.com!STARBAND.NET-a2kHrUvQQWlmc!not-for-mail
From: Bruce Gordon <fast@btpost.net>
Newsgroups: rec.radio.amateur.homebrew
Mail-Copies-To: poster
Subject: Re: seeking a good 1.25m repeater
Organization: Bruce's Trading Post
References: <kmvctb$fng$1@frotz.eternal-september.org>
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
Date: Wed, 15 May 2013 10:40:45 -0800
Message-ID: <fast-5E422F.10404315052013@news.starband.net>
X-Complaints-To: abuse@usenetserver.com
Lines: 26
X-Trace: d963d5193d63b31e5aba715864
X-Received-Bytes: 2005

In article <kmvctb$fng$1@frotz.eternal-september.org>,
 davidmylastname@acm.org (David Griffith) wrote:

> I'm interested in putting together a 1.25m repeater sometime in the next
> year and I'm casting about for possible solutions.  It seems that I have
> two routes: 1) modify a GE Mastr II or 2) find a SEA ESP-1000.  Using
> modified GE Mastr IIs is a well-regarded way of doing it, but I am
> unfamiliar with the SEA ESP-1000.  I'm slightly inclined to get one of
> those because it seems that I can get one all ready to go for slightly
> more than an unmodified Mastr II AND it's all in a convenient rackmount
> chassis.
>
> There seems to be a dearth of information on the ESP-1000 though.  Can I
> get some pointers to manuals or whatever else may be helpful?

That is simply because that System caused the SEA Group to be driven
into Bankruptcy, and nearly BROKE the Marine Division for a decade.
They are just now coming out of that slump. There are NO services
available from SEA, for ANY of those Units currently, and it is not
likely that there ever will be in the future. Al the Engineering Talent
has moved on, to other employers, or reTIRED. Just Say'en.. buy a couple
used Kenwood 1.25 Meter Radios and combine them in a Repeater Package.
that is you best bet for a supportable repeater.

--
Bruce in Alaska   add path before the @ for email


From 2051696159690041034
X-Google-Thread: fc2a5,8107c7d694d389ed,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.246.229 with SMTP id xz5mr7974386pbc.1.1368871982819;
        Sat, 18 May 2013 03:13:02 -0700 (PDT)
```

```
MIME-Version: 1.0
Path: bp1ni5451pbd.1!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 18 May 2013 05:13:02 -0500
From: vu2nan <vu2nan.bdd09a8@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Foxhole Radio detector variant
Date: Sat, 18 May 2013 10:29:43 +0100
Message-ID: <vu2nan.bdd09a8@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
Lines: 15
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Ehnu4ZjZKXklJnNAtXzRA/4Ue1b3iHNpV/
lIRsGQRJMpz7iCx0vN2yQV9K9PTxXsoFGU29KACvsbDXY!
x2QNdUzk6olh42n4WJRvU+BNX3o41qA9Dpr4Suy0OjXbHV4D1RDgx+nlS0+G+E24VnCtU77jv+rM!sjE=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1096
X-Original-Lines: 9
X-Original-Bytes: 1013
```

Please do check this out.

http://tinyurl.com/cccnh6d

Many thanks.

73,

Nandu.

--
vu2nan

```
From -8915515886031090324
X-Google-Thread: 241b302a50,8a595aae40a2ad78,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.161.201 with SMTP id xu9mr1044514pab.3.1369279527020;
        Wed, 22 May 2013 20:25:27 -0700 (PDT)
```

```
Path: bp1ni13727pbd.1!nntp.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!
border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!
border2.nntp.ams.giganews.com!nntp.giganews.com!news.panservice.it!
feeder.erje.net!us.feeder.erje.net!newsfeed.hal-mli.net!feeder3.hal-mli.net!
newsfeed.hal-mli.net!feeder1.hal-mli.net!news.linkpendium.com!
news.linkpendium.com!panix!rri.panix.com!robomod!not-for-mail
From: rec-radio-info-request@panix.com (SolderSmoke via rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.
radio.info
Subject: SolderSmoke Podcast for Sunday 19 May 2013
Followup-To:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Date: Sun, 19 May 2013 06:07:18 EDT
Organization: SolderSmoke
Lines: 12
Approved: RRI Admin <rec-radio-info-request@panix.com>
Message-ID: <089e015389264d91ca04dd0f61ed@google.com>
NNTP-Posting-Host: panix6.panix.com
Mime-Version: 1.0
X-Trace: reader1.panix.com 1368958039 15561 166.84.1.6 (19 May 2013 10:07:19 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 19 May 2013 10:07:19 +0000 (UTC)
X-RRI-Policy: http://www.panix.com/~rram/usenet/rri/index.html
X-RRI-Info-1: Send submissions to             rec-radio-info@panix.com
X-RRI-Info-2: Send technical complaints to    rec-radio-info-request@panix.com
X-RRI-Info-3: Send complaints about policy to rec-radio-info-request@panix.com
X-Comment-1: The moderators do not necessarily agree or disagree with this
article.
X-Comment-2: Moderators do not verify the accuracy of posted information.
X-Comment-3: Acceptance does not convey approval of any external references.
X-Robomod: STUMP, ichudov@algebra.com (Igor Chudov), C++/Perl/Unix Consulting
X-Moderation-1: Hassle-Free commercial hosting of moderation sites available
X-Moderation-2: See http://www.algebra.com/~ichudov/stump
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
        d=google.com; s=20120113;
        h=mime-version:x-received:sender:precedence:message-id:date:subject
         :from:to:content-type;
        bh=F5SnIkRbcP9grWd+UsZFaWhUfGbmzTCn1Sa+ee7hg10=;
        b=cjw45Tk0lv3sIi5wGWCL1K4qPNF+V/60N8vwnlVKoETquSlTGrnl+XhtV9L1xIDbeB
         pcgJCw1NJ4usEkpvyNlpC+H1ROP00HCrP7MJwVQrPPiJphnE99fFHHJo0Gt/JYvhYrED
         PBvR+U/SSTFVslz4zWeJVHrlAOv4TTrhy7bCBtJUhb3wav+46QIURyRw1TYzQsNPFnH0
         +4aBtcO2KN6I59Jvb3yrpUpFwQzQwhZXXu6etFEJnaRrH9lOrDNbFS4Wos8UrfOyo06j
         tcranr/ztsXbxjlVJKuvzvK2PM9iEMQmBzl6IvHG2ktaWhBbJrDZZjOBrdX/wVkmD6OA
         ld1A==
X-StripMime: Non-text section removed by stripmime
Bytes: 2938
X-Received-Bytes: 3076
Content-Type: text/plain; charset=UTF-8; format=flowed; delsp=yes
```

SolderSmoke Podcasts

///
SolderSmoke152`

Posted: 18 May 2013 07:30 AM PDT

SolderSmoke issue 152
This posting includes a media file:
http://www.soldersmoke.com/soldersmoke152.mp3

```
From 7746528972868144156
X-Google-Thread: 241b302a50,2dc96700caabc69e,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.185.115 with SMTP id fb19mr199751wic.0.1370298476318;
        Mon, 03 Jun 2013 15:27:56 -0700 (PDT)
MIME-Version: 1.0
Path: hv6ni129wib.1!nntp.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
209.197.12.246.MISMATCH!nx02.iad01.newshosting.com!newshosting.com!
216.196.98.144.MISMATCH!border3.nntp.dca.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!ottix-news.ottix.net!
news.litech.org!news.glorb.com!news.linkpendium.com!news.linkpendium.com!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1362145654@panix.com>
Followup-To: poster
Date: 1 Jun 2013 02:00:01 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 05 Sep 2013 02:00:00 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1370066400@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1370066402 29291 166.84.1.2 (1 Jun 2013 06:00:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 1 Jun 2013 06:00:02 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Bytes: 3908
```

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted quarterly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. After a successful trial |
period (90 days, through early July 2009), we decided to adopt this |
change permanently. |

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

From 5406989092626425602
X-Google-Thread: fcc6e,7d167eb0b92c201b,start
X-Google-NewGroupId: yes

X-Google-Thread: fc2a5,7d167eb0b92c201b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid4baf9708d4,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.160.212 with SMTP id xm20mr262041wib.0.1370585101853;
        Thu, 06 Jun 2013 23:05:01 -0700 (PDT)
MIME-Version: 1.0
Path: hv6ni5851wib.1!nntp.google.com!proxad.net!feeder1-2.proxad.net!
news.glorb.com!news.linkpendium.com!news.linkpendium.com!panix!panix2.panix.com!
not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1362639901@panix.com>
Followup-To: poster
Date: 7 Jun 2013 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 11 Sep 2013 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1370585100@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1370585101 20733 166.84.1.2 (7 Jun 2013 06:05:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 7 Jun 2013 06:05:01 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted quarterly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)

```
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article       |
is that it does not mention newer amateur radio newsgroups created since      |
it was written, including:                                                    |

 rec.radio.amateur.antenna                                                    |
 rec.radio.amateur.boatanchors                                                |
 rec.radio.amateur.dx                                                         |
 rec.radio.amateur.equipment                                                  |
 rec.radio.amateur.homebrew                                                   |
 rec.radio.amateur.moderated                                                  |
 rec.radio.amateur.space                                                      |
```

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

```
From 1801218472863502184
X-Google-Thread: 107ada,94a82d1c4f56fafa,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,94a82d1c4f56fafa,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,94a82d1c4f56fafa,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,94a82d1c4f56fafa,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gida3e752f117,gidd7f5508063,gid241b302a50,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
X-Received: by 10.180.11.239 with SMTP id t15mr5444254wib.3.1371097442059;
        Wed, 12 Jun 2013 21:24:02 -0700 (PDT)
Path: hv6ni17669wib.1!nntp.google.com!proxad.net!feeder1-2.proxad.net!
feeder.erje.net!us.feeder.erje.net!news.glorb.com!news-out.readnews.com!
transit4.readnews.com!panix!rri.panix.com!robomod!not-for-mail
From: rec-radio-info-request@panix.com (AmateurLogic.TV via rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.
radio.info
```

```
Subject: AmateurLogic.TV for Thursday 13 June 2013
Followup-To:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Date: Thu, 13 Jun 2013 00:24:01 EDT
Organization: AmateurLogic.TV
Lines: 25
Approved: RRI Admin <rec-radio-info-request@panix.com>
Message-ID: <001a11c1dadcb3847604df017f1c@google.com>
NNTP-Posting-Host: panix6.panix.com
Mime-Version: 1.0
X-Trace: reader1.panix.com 1371097441 16298 166.84.1.6 (13 Jun 2013 04:24:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 13 Jun 2013 04:24:01 +0000 (UTC)
X-RRI-Policy: http://www.panix.com/~rram/usenet/rri/index.html
X-RRI-Info-1: Send submissions to             rec-radio-info@panix.com
X-RRI-Info-2: Send technical complaints to    rec-radio-info-request@panix.com
X-RRI-Info-3: Send complaints about policy to rec-radio-info-request@panix.com
X-Comment-1: The moderators do not necessarily agree or disagree with this
article.
X-Comment-2: Moderators do not verify the accuracy of posted information.
X-Comment-3: Acceptance does not convey approval of any external references.
X-Robomod: STUMP, ichudov@algebra.com (Igor Chudov), C++/Perl/Unix Consulting
X-Moderation-1: Hassle-Free commercial hosting of moderation sites available
X-Moderation-2: See http://www.algebra.com/~ichudov/stump
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
        d=google.com; s=20120113;
        h=mime-version:sender:precedence:message-id:date:subject:from:to
         :content-type;
        bh=mHU3pisZAMqs8SWq7vWRq640WGCl3+bMNzGGRrdG2B8=;
        b=kaLlq0h4FcdEeOM+yH2U0lc87lvjs1fC9v4IOdkbcFRFWYAyFn0cbnl4QzFGOMYzyI
         w7Mkqs0JsgFnviHQlw9O7gXuZ7avVhvmTiz1tTaO+ySrN/Y1Og2UryI4WRWvvfs0f9hB
         75at83xRQRkfnneD3zaLNLQk2mBJ+yR19W0r5e6yOrxQfz8D2ZFjS9R282wHOSoOfmrg
         dUOTDRjiawkAGFAxKiUfDTAL0gt8TNvGzCXgzjK/059Hi3q2ZbIcvH8kTCIlUsjrR2MB
         jl+X6wbRNVuxUnq6BVZTGFdua+KpBBriTh6Vqijha02HwFfoW1HAYhuv03lFr2QNhMll
         HTRQ==
X-StripMime: Non-text section removed by stripmime
Content-Type: text/plain; charset=UTF-8; format=flowed; delsp=yes
```

AmateurLogic.TV

///
AmateurLogic.TV Episode 55

Posted: 12 Jun 2013 03:00 AM PDT
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic55_hi.wmv

Join Tommy and George as they relive their Excellent Adventure to Dayton Hamvention 2013. See what goodies we

brought home, George’s award, visit with Midnight Science, Joe Eisenberg K0NEB, Bob Heil K9EID, Ray Novak N9JA, and more.

We also announce the very lucky winner of the Field Day Giveaway contest
who’s receiving the Icom IC-7200 plus a

custom shop paint job and accessories from GigaParts, MFJ, and Heil Sound.

1:12:02 of Hamvention fun.
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic55_hi.wmv

```
From 302103765969907627
X-Google-Thread: fc2a5,8107c7d694d389ed
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.139.165 with SMTP id qz5mr759364pab.2.1371312452049;
        Sat, 15 Jun 2013 09:07:32 -0700 (PDT)
Path: b2ni18193pby.1!nntp.google.com!news.glorb.com!feeder.erje.net!
eu.feeder.erje.net!eternal-september.org!feeder.eternal-september.org!
mx05.eternal-september.org!.POSTED!not-for-mail
From: =?ISO-8859-1?Q?philo=A0=A0?= <philo@privacy.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Foxhole Radio detector variant
Date: Sat, 15 Jun 2013 11:07:29 -0500
Organization: A noiseless patient Spider
Lines: 26
Message-ID: <kpi36r$ciq$1@dont-email.me>
References: <vu2nan.bdd09a8@radiobanter.com>
Mime-Version: 1.0
Injection-Date: Sat, 15 Jun 2013 16:02:36 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-
host="a044fcdbb0f644bc3078980d0a89e5e6";
     logging-data="12890"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/T/lkZDPpaLh4a/rttXZAFbff0v16XSXU="
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:17.0) Gecko/20130307
Thunderbird/17.0.4
In-Reply-To: <vu2nan.bdd09a8@radiobanter.com>
Cancel-Lock: sha1:gh/kdzntaFDEiA5SxxttsqC5Km4=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 5/18/2013 4:29 AM, vu2nan wrote:
> Please do check this out.
>
> http://tinyurl.com/cccnh6d
>
> Many thanks.
>
> 73,

>
> Nandu.
>
>
>
>

I recall, as a kid building a crystal set with my father.
we used a razor blade and a piece of pencil graphite, but never got it to work.

Later, with a "crystal diode"...it worked.

That was in 1957 and I still have the roll of wire were used to wind the coil

```
From 8279720983312266074
X-Google-Thread: fc2a5,1c7f5eff4b5f2f6f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.36.211 with SMTP id s19mr1003475wij.1.1371326111596;
        Sat, 15 Jun 2013 12:55:11 -0700 (PDT)
Path: b5ni2693wiz.1!nntp.google.com!goblin1!goblin.stu.neva.ru!eternal-
september.org!feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-
for-mail
From: =?ISO-8859-1?Q?philo=A0?= <philo@privacy.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Foxhole Radio detector variant
Date: Sat, 15 Jun 2013 14:55:09 -0500
Organization: A noiseless patient Spider
Lines: 42
Message-ID: <kpighn$m10$1@dont-email.me>
References: <vu2nan.bd7dfc8@radiobanter.com>
<Channel.Jumper.bd7edd8@radiobanter.com> <vu2nan.bd7fbe8@radiobanter.com>
Mime-Version: 1.0
Injection-Date: Sat, 15 Jun 2013 19:50:15 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-
host="a044fcdbb0f644bc3078980d0a89e5e6";
     logging-data="22560"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19EUiHHmrjwMcmfJeSGE4OQxPROGY9HNY4="
User-Agent: Mozilla/5.0 (X11; Linux i686; rv:17.0) Gecko/20130510 Thunderbird/
17.0.6
In-Reply-To: <vu2nan.bd7fbe8@radiobanter.com>
Cancel-Lock: sha1:5iFgnfr33gCV1k4tn5FlewgOsSc=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 05/14/2013 08:17 AM, vu2nan wrote:

> Channel Jumper;804920 Wrote:
>> Thanks
>>
>> That is a real old web site - saw it many times before.
>>
>> The problem is - not many safety razor blades anymore - other then
>> cardboard cutters or utility knife blades.
>>
>> With the commercial broadcast bands going digital - it is hard to find a
>> good signal anymore.. Even KDKA is hard to hear at night with the
>> digital signal of another station in about the same exact place.
>
> Hi,
>
> You are absolutely correct. The way things are changing, I wonder if
> future generations will appreciate old tech!
>
> Thanks.
>
> Regards,
>
> Nandu.
>
>
>
>

I found this

http://www.midnightscience.com/

So I guess there is still interest.

I am disappointed how there are so few good radio stations
but am very glad there is still NPR.

```
From 945596538045951518
X-Google-Thread: fc2a5,1c7f5eff4b5f2f6f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.217.234 with SMTP id pb10mr443592pbc.2.1371334973013;
        Sat, 15 Jun 2013 15:22:53 -0700 (PDT)
MIME-Version: 1.0
Path: b2ni18690pby.1!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
```

```
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 15 Jun 2013 17:22:52 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <vu2nan.bd7dfc8@radiobanter.com>
<Channel.Jumper.bd7edd8@radiobanter.com>
Subject: Re: Foxhole Radio detector variant
Date: Sat, 15 Jun 2013 18:22:52 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
Message-ID: <CLWdnZSl_PShdCHMnZ2dnUVZ_qudnZ2d@earthlink.com>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.148.196.44
X-Trace:
sv3-7FsmyYZlC9Z4OlusKyFh74Eq7s4LFdyDzp6E6jMZoVNTnJACZNhTHh5PdqLHJKIYiVFLXnz/
E751GJG!JbGk21cHe0/
PLoBRSW5SCoIKJfkS1SmJyl3w+C4QAX83eQZnHCMzJSpOiN0Fad97xmtUVkS2NZ2d!
rQlK4IoEcDkBG+MPvofB
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1933
X-Original-Bytes: 1872
```

"Channel Jumper" <Channel.Jumper.bd7edd8@radiobanter.com> wrote in message
news:Channel.Jumper.bd7edd8@radiobanter.com...

>
>>
> The problem is - not many safety razor blades anymore - other then
> cardboard cutters or utility knife blades.
>
> With the commercial broadcast bands going digital - it is hard to find a
> good signal anymore.. Even KDKA is hard to hear at night with the
> digital signal of another station in about the same exact place.
>
>

The real problem is the blades needed to be the Blue Blades. The other ones did not work well if at all. The blue was not paint, but some form of coating on the blades that kept them from rusting. I am not sure if it is similar to the blueing on guns or not.

```
From -8804600261807205266
X-Google-Thread: fc2a5,8107c7d694d389ed
```

```
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
X-Received: by 10.66.122.39 with SMTP id lp7mr934552pab.44.1371339747244;
        Sat, 15 Jun 2013 16:42:27 -0700 (PDT)
Path: b2ni17537pby.1!nntp.google.com!npeer03.iad.highwinds-media.com!feed-
me.highwinds-media.com!cyclone03.ams2.highwinds-media.com!news.highwinds-
media.com!voer-me.highwinds-media.com!news.unit0.net!weretis.net!
feeder4.news.weretis.net!rt.uk.eu.org!nntp-feed.chiark.greenend.org.uk!ewrotcd!
news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Foxhole Radio detector variant
Date: Sat, 15 Jun 2013 19:41:38 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 65
Sender: et472@bas1-montreal43-2925256521.dsl.bell.ca
Message-ID: <alpine.LNX.2.02.1306151936590.13067@darkstar.example.org>
References: <vu2nan.bdd09a8@radiobanter.com> <kpi36r$ciq$1@dont-email.me>
NNTP-Posting-Host: bas1-montreal43-2925256521.dsl.bell.ca
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1371339623 8802 174.91.223.73 (15 Jun 2013 23:40:23 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 15 Jun 2013 23:40:23 GMT
In-Reply-To: <kpi36r$ciq$1@dont-email.me>
User-Agent: Alpine 2.02 (LNX 1266 2009-07-14)
X-Received-Bytes: 3074
Content-Type: TEXT/PLAIN; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: QUOTED-PRINTABLE

On Sat, 15 Jun 2013, philo=A0=A0 wrote:

> On 5/18/2013 4:29 AM, vu2nan wrote:
>> Please do check this out.
>>=20
>> http://tinyurl.com/cccnh6d
>>=20
>> Many thanks.
>>=20
>> 73,
>>=20
>> Nandu.
>>=20
>>=20
>>=20
>>=20
>
>
>
> I recall, as a kid building a crystal set with my father.
> we used a razor blade and a piece of pencil graphite, but never got it to=
=20
> work.
```

>
> Later, with a "crystal diode"...it worked.
>
>
> That was in 1957 and I still have the roll of wire were used to wind the=
=20
> coil
>

I guess my childhood was more upscale. I remember having a tiny box that=
=20
was a crystal radio, complete with tuning dial. Maybe three inches long,=20
two inches wide? SOmething like that. It was a commercial product. I=20
have no idea if it was given to me, or I kind of used it because my father=
=20
had it. I can't even remember if it worked, I vague remember something=20
about clipping it to some metal frame, it had an alligator clip or two.
That had to be the early sixties.

Then in the early seventies, I had one of those plastic crystal radios, a=
=20
famous brand that doens't come to mind right now. A plastic case with a=20
slider for tuning, it had a piece of plastic in a circule, kid of like an=
=20
antenna, and I think the whole thing was blue. Only one earphoe, but soe=
=20
metal to hold it onto your head. That worked, though I can't remember the=
=20
antenna, and I seem to recall multiple stations at the same time, so not=20
much selectivity. I can't remember if that was a kit or not.

Michael VE2BVW

From -5506400241283503476
X-Google-Thread: fc2a5,1c7f5eff4b5f2f6f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.183.129 with SMTP id em1mr939550pbc.5.1371361866966;
Sat, 15 Jun 2013 22:51:06 -0700 (PDT)
Path: e10ni9293pbm.0!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 16 Jun 2013 00:51:06 -0500
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <vu2nan.bd7dfc8@radiobanter.com>
<Channel.Jumper.bd7edd8@radiobanter.com> <vu2nan.bd7fbe8@radiobanter.com>
<kpighn$m10$1@dont-email.me>
In-Reply-To: <kpighn$m10$1@dont-email.me>
Subject: Re: Foxhole Radio detector variant

```
Date: Sat, 15 Jun 2013 22:51:04 -0700
MIME-Version: 1.0
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18463
Message-ID: <AcqdnWh8favXzyDMnZ2dnUVZ5g2dnZ2d@giganews.com>
Lines: 9
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-fHctaihx6DpYis7dZKwNRVQuoW2KTrT6gQJORjPDxXWMWOciEoL7OYBprBmhk/
ICA0LbI4YcSGhD61t!7q8sAWyjDo97TW/
Ew8KTFS9BCYMtvrOuGmLwzXYdlXoidOhBnHTvI8aBNUlKWaExNfrwFQserg==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1733
X-Original-Bytes: 1672
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
```

> I am disappointed how there are so few good radio stations
> but am very glad there is still NPR.

NPR is pretty interesting, but a mite too liberal for my standards, what I crave is some good old "Wolfman Jack" or even back a bit more, "Innersanctem" {sp?} and the squeaking door! XERF DelRio?

Old Chief Lynn

```
From -6847159840243945573
X-Google-Thread: fc2a5,8107c7d694d389ed
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.185.115 with SMTP id fb19mr1383790wic.0.1371384802282;
        Sun, 16 Jun 2013 05:13:22 -0700 (PDT)
Path: b5ni4035wiz.1!nntp.google.com!proxad.net!feeder1-2.proxad.net!
137.226.231.214.MISMATCH!newsfeed.fsmpi.rwth-aachen.de!eternal-september.org!
feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-for-mail
From: =?ISO-8859-1?Q?philo=A0?= <philo@privacy.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Foxhole Radio detector variant
Date: Sun, 16 Jun 2013 07:13:20 -0500
Organization: A noiseless patient Spider
Lines: 41
```

```
Message-ID: <kpk9ro$7sn$1@dont-email.me>
References: <vu2nan.bdd09a8@radiobanter.com> <kpi36r$ciq$1@dont-email.me>
<alpine.LNX.2.02.1306151936590.13067@darkstar.example.org>
Mime-Version: 1.0
Injection-Date: Sun, 16 Jun 2013 12:08:24 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-
host="a044fcdbb0f644bc3078980d0a89e5e6";
     logging-data="8087"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19vuxTN8KnKOqutCLMhzv5enqKYdiI1qPw="
User-Agent: Mozilla/5.0 (X11; Linux i686; rv:17.0) Gecko/20130510 Thunderbird/
17.0.6
In-Reply-To: <alpine.LNX.2.02.1306151936590.13067@darkstar.example.org>
Cancel-Lock: sha1:oOx0DK5Wva3nKcN7svGl5PQOXHA=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 06/15/2013 06:41 PM, Michael Black wrote:


<snip>
>> That was in 1957 and I still have the roll of wire were used to wind
>> the coil
>>
> I guess my childhood was more upscale.  I remember having a tiny box
> that was a crystal radio, complete with tuning dial. Maybe three inches
> long, two inches wide?  SOmething like that.  It was a commercial
> product.  I have no idea if it was given to me, or I kind of used it
> because my father had it.  I can't even remember if it worked, I vague
> remember something about clipping it to some metal frame, it had an
> alligator clip or two.
> That had to be the early sixties.
>
> Then in the early seventies, I had one of those plastic crystal radios,
> a famous brand that doens't come to mind right now.  A plastic case with
> a slider for tuning, it had a piece of plastic in a circule, kid of like
> an antenna, and I think the whole thing was blue.  Only one earphoe, but
> soe metal to hold it onto your head.  That worked, though I can't
> remember the antenna, and I seem to recall multiple stations at the same
> time, so not much selectivity.  I can't remember if that was a kit or not.
>
>    Michael VE2BVW
>
>


Yep.When I was a tad older I got, as a gift, one of those plastic
crystal radio kits, it was yellow.

The kid next door had one but his was "louder" than mine.

We experimented by swapping them and determining that it was not the
antenna, then we exchanged diodes and it turned out his diode was more
sensitive than mine.
```

A few years later I put one one stage transistor amplifier in it
and one of my friends wanted it so badly that I ended up swapping him
the radio for a huge box of parts.

```
From 770217125719279904
X-Google-Thread: fc2a5,1c7f5eff4b5f2f6f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.12.200 with SMTP id a8mr1122737wic.1.1371385016500;
        Sun, 16 Jun 2013 05:16:56 -0700 (PDT)
Path: b5ni4043wiz.1!nntp.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
195.62.100.242.MISMATCH!newsfeed.kamp.net!newsfeed.kamp.net!eternal-september.org!
feeder.eternal-september.org!mx05.eternal-september.org!.POSTED!not-for-mail
From: =?ISO-8859-1?Q?philo=A0?= <philo@privacy.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Foxhole Radio detector variant
Date: Sun, 16 Jun 2013 07:16:55 -0500
Organization: A noiseless patient Spider
Lines: 23
Message-ID: <kpka2e$7sn$2@dont-email.me>
References: <vu2nan.bd7dfc8@radiobanter.com>
<Channel.Jumper.bd7edd8@radiobanter.com> <vu2nan.bd7fbe8@radiobanter.com>
<kpighn$m10$1@dont-email.me> <AcqdnWh8favXzyDMnZ2dnUVZ5g2dnZ2d@giganews.com>
Mime-Version: 1.0
Injection-Date: Sun, 16 Jun 2013 12:11:59 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-
host="a044fcdbb0f644bc3078980d0a89e5e6";
     logging-data="8087"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+BVGL1E/a4r8IDhaTc7mZ4BLx9qw4UCVA="
User-Agent: Mozilla/5.0 (X11; Linux i686; rv:17.0) Gecko/20130510 Thunderbird/
17.0.6
In-Reply-To: <AcqdnWh8favXzyDMnZ2dnUVZ5g2dnZ2d@giganews.com>
Cancel-Lock: sha1:Wzbnvq4Bnv1RrPqryyUhoi2B/n4=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 06/16/2013 12:51 AM, coffelt2 wrote:
>> I am disappointed how there are so few good radio stations
>> but am very glad there is still NPR.
>
>   NPR is pretty interesting, but a mite too liberal for my standards,
> what I crave is some good old "Wolfman Jack" or even back a bit
> more, "Innersanctem" {sp?} and the squeaking door! XERF DelRio?
>
> Old Chief Lynn
>

Still plenty of stations that rebroadcast the old programs, but there is still nothing like live radio.

As to NPR and liberalism...they have /many/ good programs that have
nothing to do politics of any sort.

I love this one

http://www.waywordradio.org/

```
From 4258613659017008398
X-Google-Thread: fc2a5,1c7f5eff4b5f2f6f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
X-Received: by 10.180.11.232 with SMTP id t8mr1321845wib.3.1371401363853;
        Sun, 16 Jun 2013 09:49:23 -0700 (PDT)
Path: md6ni5553wic.0!nntp.google.com!proxad.net!feeder1-2.proxad.net!usenet-
fr.net!de-l.enfer-du-nord.net!feeder2.enfer-du-nord.net!cs.uu.nl!
news0.firedrake.org!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Foxhole Radio detector variant
Date: Sun, 16 Jun 2013 12:50:39 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 65
Sender: et472@bas1-montreal43-2925256521.dsl.bell.ca
Message-ID: <alpine.LNX.2.02.1306161245300.14205@darkstar.example.org>
References: <vu2nan.bd7dfc8@radiobanter.com>
<Channel.Jumper.bd7edd8@radiobanter.com> <vu2nan.bd7fbe8@radiobanter.com>
<kpighn$m10$1@dont-email.me> <AcqdnWh8favXzyDMnZ2dnUVZ5g2dnZ2d@giganews.com>
<kpka2e$7sn$2@dont-email.me>
NNTP-Posting-Host: bas1-montreal43-2925256521.dsl.bell.ca
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1371401362 6234 174.91.223.73 (16 Jun 2013 16:49:22 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 16 Jun 2013 16:49:22 GMT
In-Reply-To: <kpka2e$7sn$2@dont-email.me>
User-Agent: Alpine 2.02 (LNX 1266 2009-07-14)
Content-Type: TEXT/PLAIN; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: QUOTED-PRINTABLE
```

On Sun, 16 Jun 2013, philo=A0 wrote:

```
> On 06/16/2013 12:51 AM, coffelt2 wrote:
>>> I am disappointed how there are so few good radio stations
>>> but am very glad there is still NPR.
>>
>>      NPR is pretty interesting, but a mite too liberal for my standards,
>> what I crave is some good old "Wolfman Jack" or even back a bit
>> more, "Innersanctem" {sp?} and the squeaking door! XERF DelRio?
>>=20
```

```
>> Old Chief Lynn
>>=20
>
>
>
> Still plenty of stations that rebroadcast the old programs,
> but there is still nothing like live radio.
>
> As to NPR and liberalism...they have /many/ good programs that have nothi=
ng=20
> to do politics of any sort.
>
>
> I love this one
>
> http://www.waywordradio.org/
>
The sad part about the AM band is that at night when you can move out of=20
the local, so much of it is syndicated, and usually the same show or two.
The local stations love it, filler for a time when audience is down, but=20
no thrill when tuning the band.  There was a local station carrying "Coast=
=20
to COast" and every time it looked like the station was going to fail,=20
everyone would say "but what about Coast to Coast?" as if they couldn't=20
get the program so easily up and down the dial.  And when that station did=
=20
finally die, another station grabbed it right away.  Sad, that station=20
used to have local programming overnight.

For about a decade, I'd listen to WBZ out of Baston overnight if the local=
=20
overnight programming wasn't interesting that night, and the overnight=20
syndicated programming wasn't interesting.  WBZ has a good reach=20
overnight, and except for the fading, might as well be local then.  And=20
they know it, so they keep local programming (though often the guests and=
=20
calls are not just about Boston) and basically invite callers from all=20
over.

Reception got sporadic when a local station started up at 1040, just above=
=20
WBZ.

And I'm finding I'm not listening to much radio late at night.

   Michael  VE2BVW


From -1032731570514011928
X-Google-Thread: fc2a5,1c7f5eff4b5f2f6f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

X-Received: by 10.66.189.195 with SMTP id gk3mr1181075pac.16.1371406735587;
        Sun, 16 Jun 2013 11:18:55 -0700 (PDT)
MIME-Version: 1.0
Path: e10ni10236pbm.0!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 16 Jun 2013 13:18:55 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <vu2nan.bd7dfc8@radiobanter.com>
<Channel.Jumper.bd7edd8@radiobanter.com>
Subject: Re: Foxhole Radio detector variant
Date: Sun, 16 Jun 2013 14:18:54 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
Message-ID: <WvudnVwC5skSnCPMnZ2dnUVZ_rqdnZ2d@earthlink.com>
Lines: 29
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.148.196.44
X-Trace: sv3-l3GXV0D1mUr7pfK2rCk2evfzUV4g1hkCTgF033YXryAEGCMsM4j9F/
nGThz9RvIgNakIL5yFZpR5bqN!I8NEyPiY/HX76HsASsYd/jZWRGdam+yq/
I7J5zdyyqNq61eqD2zbwC0dbgd1P2IXFVoAuk/Z0YKD!nXbEyKC8RlhDit0iw7R+
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1889
X-Original-Bytes: 1828

"Channel Jumper" <Channel.Jumper.bd7edd8@radiobanter.com> wrote in message
news:Channel.Jumper.bd7edd8@radiobanter.com...
>
> vu2nan;804917 Wrote:
>> Please do check this out.
>>
>> http://tinyurl.com/cccnh6d
>>
>> Many thanks.
>>
>> 73,
>>
>> Nandu.
>
>
> Thanks
>
> That is a real old web site - saw it many times before.
>
> The problem is - not many safety razor blades anymore - other then

> cardboard cutters or utility knife blades.
>

The real problem is the razor blade had to be a "Blue Blade". I think they were only made by Gillette. This was not a paint, but some form of coating on the blade. Not sure if it was similar to the blueing on guns or not.

```
From 464122786751175507
X-Google-Thread: fc2a5,1c7f5eff4b5f2f6f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.36.211 with SMTP id s19mr1631459wij.1.1371407562190;
        Sun, 16 Jun 2013 11:32:42 -0700 (PDT)
Path: md6ni5702wic.0!nntp.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
87.79.20.101.MISMATCH!newsreader4.netcologne.de!news.netcologne.de!
newsfeed.fsmpi.rwth-aachen.de!eternal-september.org!feeder.eternal-september.org!
mx05.eternal-september.org!.POSTED!not-for-mail
From: =?ISO-8859-1?Q?philo=A0?= <philo@privacy.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Foxhole Radio detector variant
Date: Sun, 16 Jun 2013 13:32:40 -0500
Organization: A noiseless patient Spider
Lines: 43
Message-ID: <kpl02v$trt$1@dont-email.me>
References: <vu2nan.bd7dfc8@radiobanter.com>
<Channel.Jumper.bd7edd8@radiobanter.com> <vu2nan.bd7fbe8@radiobanter.com>
<kpighn$m10$1@dont-email.me> <AcqdnWh8favXzyDMnZ2dnUVZ5g2dnZ2d@giganews.com>
<kpka2e$7sn$2@dont-email.me>
<alpine.LNX.2.02.1306161245300.14205@darkstar.example.org>
Mime-Version: 1.0
Injection-Date: Sun, 16 Jun 2013 18:27:44 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-
host="a044fcdbb0f644bc3078980d0a89e5e6";
     logging-data="30589"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18S5uRMzSHbJXZ5JLs9DCM6mFcg591Nsi4="
User-Agent: Mozilla/5.0 (X11; Linux i686; rv:17.0) Gecko/20130510 Thunderbird/
17.0.6
In-Reply-To: <alpine.LNX.2.02.1306161245300.14205@darkstar.example.org>
Cancel-Lock: sha1:WhUiizQgphk1QSnQACD5b/0JyqQ=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 06/16/2013 11:50 AM, Michael Black wrote:
>

<snip>
>>
> The sad part about the AM band is that at night when you can move out of
> the local, so much of it is syndicated, and usually the same show or two.

> The local stations love it, filler for a time when audience is down, but no thrill when tuning the band. There was a local station carrying "Coast to COast" and every time it looked like the station was going to fail, everyone would say "but what about Coast to Coast?" as if they couldn't get the program so easily up and down the dial. And when that station did finally die, another station grabbed it right away. Sad, that station used to have local programming overnight.
>
> For about a decade, I'd listen to WBZ out of Baston overnight if the local overnight programming wasn't interesting that night, and the overnight syndicated programming wasn't interesting. WBZ has a good reach overnight, and except for the fading, might as well be local then. And they know it, so they keep local programming (though often the guests and calls are not just about Boston) and basically invite callers from all over.
>
> Reception got sporadic when a local station started up at 1040, just above WBZ.
>
> And I'm finding I'm not listening to much radio late at night.
>
>   Michael VE2BVW

I'm retired now, but when I was working I'd spend many hours a day driving and radio was very important to me. When radio pretty much died I stocked up on CD's but that was hardly the same...it got boring pretty fast.

Now, I find myself listening to a few hours of NPR on weekends and that's about it.

BTW: I am also a ham radio operator, but am no longer active.
I actually prefer Usenet.

```
From -8809071607655910940
X-Google-Thread: fc2a5,1c7f5eff4b5f2f6f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.185.115 with SMTP id fb19mr1633781wic.0.1371407647874;
        Sun, 16 Jun 2013 11:34:07 -0700 (PDT)
Path: md6ni5700wic.0!nntp.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!ecngs!feeder2.ecngs.de!feeder.erje.net!eu.feeder.erje.net!
eternal-september.org!feeder.eternal-september.org!mx05.eternal-
september.org!.POSTED!not-for-mail
From: =?ISO-8859-1?Q?philo=A0?= <philo@privacy.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Foxhole Radio detector variant
Date: Sun, 16 Jun 2013 13:34:07 -0500
```

Organization: A noiseless patient Spider
Lines: 35
Message-ID: <kpl05l$trt$2@dont-email.me>
References: <vu2nan.bd7dfc8@radiobanter.com>
<Channel.Jumper.bd7edd8@radiobanter.com>
<WvudnVwC5skSnCPMnZ2dnUVZ_rqdnZ2d@earthlink.com>
Mime-Version: 1.0
Injection-Date: Sun, 16 Jun 2013 18:29:09 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-host="a044fcdbb0f644bc3078980d0a89e5e6";
logging-data="30589"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX1+c06s8usaqrHtFU+Ncx425NPKbsdf7NcU="
User-Agent: Mozilla/5.0 (X11; Linux i686; rv:17.0) Gecko/20130510 Thunderbird/17.0.6
In-Reply-To: <WvudnVwC5skSnCPMnZ2dnUVZ_rqdnZ2d@earthlink.com>
Cancel-Lock: sha1:dfd8odhCgBSjAnZW7fZ2GeOulcI=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 06/16/2013 01:18 PM, Ralph Mowery wrote:
>
> "Channel Jumper" <Channel.Jumper.bd7edd8@radiobanter.com> wrote in message
> news:Channel.Jumper.bd7edd8@radiobanter.com...
>>
>> vu2nan;804917 Wrote:
>>> Please do check this out.
>>>
>>> http://tinyurl.com/cccnh6d
>>>
>>> Many thanks.
>>>
>>> 73,
>>>
>>> Nandu.
>>
>>
>> Thanks
>>
>> That is a real old web site - saw it many times before.
>>
>> The problem is - not many safety razor blades anymore - other then
>> cardboard cutters or utility knife blades.
>>
>
> The real problem is the razor blade had to be a "Blue Blade". I think they
> were only made by Gillette. This was not a paint, but some form of coating
> on the blade. Not sure if it was similar to the blueing on guns or not.
>
>

When my dad and I built the never-to-work crystal set, the plans said not to use a blue-blade. OTOH, we did try it after the regular razor did

```
not work.


From 117586440168152851
X-Google-Thread: fc2a5,1c7f5eff4b5f2f6f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.122.200 with SMTP id lu8mr1008103pab.4.1371417598207;
        Sun, 16 Jun 2013 14:19:58 -0700 (PDT)
Path: e10ni10414pbm.0!nntp.google.com!news.glorb.com!news.astraweb.com!
border6.newsrouter.astraweb.com!not-for-mail
From: Jim Mueller <wrongname@nospam.com>
Subject: Re: Foxhole Radio detector variant
Newsgroups: rec.radio.amateur.homebrew
References: <vu2nan.bd7dfc8@radiobanter.com>
     <Channel.Jumper.bd7edd8@radiobanter.com>
     <WvudnVwC5skSnCPMnZ2dnUVZ_rqdnZ2d@earthlink.com>
User-Agent: Pan/0.136 (I'm far too busy being delicious; GIT 926a150
     git://git.gnome.org/pan2)
MIME-Version: 1.0
Date: 16 Jun 2013 21:19:57 GMT
Lines: 38
Message-ID: <51be2bfd$0$40764$c3e8da3$3304c218@news.astraweb.com>
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 9683921c.news.astraweb.com
X-Trace: DXC==4YfE:X7GeJ6;?e@]GfeBGL?0kYOcDh@JIoR:?
4Fhb`EaYW9XoKNQFD]cO7LBOH\kIh1mWJX8RLZMLU8iM86;kAL^od574LV?GNJWm7Nl<HS[L
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

On Sun, 16 Jun 2013 14:18:54 -0400, Ralph Mowery wrote:

> "Channel Jumper" <Channel.Jumper.bd7edd8@radiobanter.com> wrote in
> message news:Channel.Jumper.bd7edd8@radiobanter.com...
>>
>> vu2nan;804917 Wrote:
>>> Please do check this out.
>>>
>>> http://tinyurl.com/cccnh6d
>>>
>>> Many thanks.
>>>
>>> 73,
>>>
>>> Nandu.
>>
>>
>> Thanks
>>
>> That is a real old web site - saw it many times before.
>>
>> The problem is - not many safety razor blades anymore - other then
```

>> cardboard cutters or utility knife blades.
>>
>>
> The real problem is the razor blade had to be a "Blue Blade". I think
> they were only made by Gillette. This was not a paint, but some form of
> coating on the blade. Not sure if it was similar to the blueing on guns
> or not.

Gun blueing is available at sporting goods and gun stores. Try it and
see if it works. Then tell us all.

--
Jim Mueller wrongname@nospam.com

To get my real email address, replace wrongname with dadoheadman.
Then replace nospam with fastmail. Lastly, replace com with us.

```
From -557748715416225636
X-Google-Thread: fc2a5,1c7f5eff4b5f2f6f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.121.134 with SMTP id lk6mr957683pab.34.1371420609204;
        Sun, 16 Jun 2013 15:10:09 -0700 (PDT)
MIME-Version: 1.0
Path: e10ni10521pbm.0!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 16 Jun 2013 17:10:08 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References:
<vu2nan.bd7dfc8@radiobanter.com><Channel.Jumper.bd7edd8@radiobanter.com><WvudnVwC5
skSnCPMnZ2dnUVZ_rqdnZ2d@earthlink.com>
<51be2bfd$0$40764$c3e8da3$3304c218@news.astraweb.com>
Subject: Re: Foxhole Radio detector variant
Date: Sun, 16 Jun 2013 18:10:08 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
Message-ID: <D5KdnaaG2vddqiPMnZ2dnUVZ_hSdnZ2d@earthlink.com>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.148.196.44
X-Trace: sv3-QOLWwAbjMF5P//
UVyRFBAXR2TISZ+lKDcVvhW+u5GpIKVMA4slY8NUPNRzp4JmXaphIrV9/HolGfVCK!
yuCyutS2yhpsyT1MReUIToJXx05EaCRitptOcHj9Fcu0Yfqj3hqV1G/ZhVnPeItneXNw/c61OR86!
xKX00jKIKGX3X0UkrGl9
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

```
properly
X-Postfilter: 1.3.40
Bytes: 1865
X-Original-Bytes: 1804
```

"Jim Mueller" <wrongname@nospam.com> wrote in message
news:51be2bfd$0$40764$c3e8da3$3304c218@news.astraweb.com...
> Gun blueing is available at sporting goods and gun stores. Try it and
> see if it works. Then tell us all.
>
> --

There are atleast two kinds. One is the cold blueing that is just brushed on and wiped off. Not too much trouble, but the process I was thinking of is the hot blueing that is lots of trouble. Both are not worth my time or money to try just for a one time deal. Also I do not have any high impedance ear phones..hihi.

```
From -5870462491206440242
X-Google-Thread: fc2a5,8107c7d694d389ed
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.163.97 with SMTP id yh1mr1249141pab.5.1371449323838;
        Sun, 16 Jun 2013 23:08:43 -0700 (PDT)
Path: e10ni11111pbm.0!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 17 Jun 2013 01:08:43 -0500
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <vu2nan.bdd09a8@radiobanter.com> <kpi36r$ciq$1@dont-email.me>
<alpine.LNX.2.02.1306151936590.13067@darkstar.example.org> <kpk9ro$7sn$1@dont-
email.me>
In-Reply-To: <kpk9ro$7sn$1@dont-email.me>
Subject: Re: Foxhole Radio detector variant
Date: Sun, 16 Jun 2013 23:08:41 -0700
MIME-Version: 1.0
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18463
Message-ID: <tOSdnZi6LOt2OiPMnZ2dnUVZ5h-dnZ2d@giganews.com>
Lines: 44
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-CbTCko6Nt12FyVIRNE/
d2OGM+nEEBFnYvdfa7WYdvIenowpe8um7dsDozuS7LDJRIb2OhVdTcr3HFrQ!
pCS7/63Yveu4x3SOqtxMKqa0Zimllb8zTZU2lSDuxJYAldaBcM2j7YpzVfyyg0QhqMMFtM2qhQ==
X-Complaints-To: abuse@giganews.com
```

X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Bytes: 3109
X-Original-Bytes: 3048
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit

"philo " <philo@privacy.net> wrote in message
news:kpk9ro$7sn$1@dont-email.me...
> On 06/15/2013 06:41 PM, Michael Black wrote:
>
>
> <snip>
>>> That was in 1957 and I still have the roll of wire were used to wind
>>> the coil
>>>

<snipped to bits>
> We experimented by swapping them and determining that it was not the
> antenna, then we exchanged diodes and it turned out his diode was more
> sensitive than mine.
>
> A few years later I put one one stage transistor amplifier in it
> and one of my friends wanted it so badly that I ended up swapping him the
> radio for a huge box of parts.

     My "foxhole" radio never did perform, but our nearest 500 watt station was 30 miles away.
The "Technical experts" writing of the day explained that the sensitive spot on the blue blade
was the fine line where the blue coating met the sharpened edge, where there was no blue.
Some think that since the bare sharpened edge tended to rust, there could have been a
crude junction of sort where the beginning of rust interacted chemically with something in the
blue substance. Wada U think?
     Later in life, maybe 1958 or so, Tucson Radio Supply had CK722's for less than $15. I
sprung for one, and tried the "Foxhole" thing again. Hey, it received several stations, one on
top of the other. You could see several AM towers nearby. Discovered that you didn't need
any razor blade at all. Just touching two slightly corroded copper wires together did the same
thing. All H*** broke loose when the price of surplus 1N23's got less than $2. Then selectivity

became an issue.

Old Chief Lynn, W7LTQ since 1948 (CW every month or so)

```
From -7085792441295965946
X-Google-Thread: fc2a5,8107c7d694d389ed
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.67.5.199 with SMTP id co7mr1359947pad.39.1371464344811;
        Mon, 17 Jun 2013 03:19:04 -0700 (PDT)
MIME-Version: 1.0
Path: e10ni11413pbm.0!nntp.google.com!news.glorb.com!usenet.stanford.edu!
news.kjsl.com!rahul.net!wasp.rahul.net!rahul.net!news.misty.com!.POSTED!not-for-
mail
From: "Geoffrey S. Mendelson" <gsm@mendelson.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Foxhole Radio detector variant
Date: Mon, 17 Jun 2013 10:19:04 +0000 (UTC)
Organization: MGT Consulting
Lines: 30
Message-ID: <slrnkrtoio.ibg.gsm@cable.mendelson.com>
References: <vu2nan.bdd09a8@radiobanter.com> <kpi36r$ciq$1@dont-email.me>
 <alpine.LNX.2.02.1306151936590.13067@darkstar.example.org>
 <kpk9ro$7sn$1@dont-email.me>
 <tOSdnZi6LOt2OiPMnZ2dnUVZ5h-dnZ2d@giganews.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 82.166.112.54.fix.netvision.net.il
X-Trace: news.inside.misty.com 1371464344 14461 82.166.112.54 (17 Jun 2013
10:19:04 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Mon, 17 Jun 2013 10:19:04 +0000 (UTC)
User-Agent: slrn/pre1.0.0-11 (Linux)
```

coffelt2 wrote:

> My "foxhole" radio never did perform, but our nearest 500 watt station
> was 30 miles away.
> The "Technical experts" writing of the day explained that the sensitive spot
> on the blue blade
> was the fine line where the blue coating met the sharpened edge, where there
> was no blue.
> Some think that since the bare sharpened edge tended to rust, there could
> have been a
> crude junction of sort where the beginning of rust interacted chemically
> with something in the
> blue substance. Wada U think?

It may also have been impurities in the blade that caused it to work.

While cleaning out things, I found some FAN brand blued steel blades, purchased by a late friend in the 1970's.

Maybe someday I will find someone local to me (Jerusalem) that wants
to try them. :-)

73,

Geoff.

--
Geoffrey S. Mendelson, N3OWJ/4X1GM/KBUH7245/KBUW5379
It's Spring here in Jerusalem!!!

```
From -1268036633572148014
X-Google-Thread: fc2a5,8107c7d694d389ed
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.197.196 with SMTP id iw4mr1431868pbc.7.1371480436578;
        Mon, 17 Jun 2013 07:47:16 -0700 (PDT)
Path: b2ni21694pby.1!nntp.google.com!news.glorb.com!usenet.stanford.edu!usenet-
its.stanford.edu!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Foxhole Radio detector variant
Date: Mon, 17 Jun 2013 10:48:06 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 34
Sender: et472@bas1-montreal43-2925256521.dsl.bell.ca
Message-ID: <alpine.LNX.2.02.1306171045420.16080@darkstar.example.org>
References: <vu2nan.bdd09a8@radiobanter.com> <kpi36r$ciq$1@dont-email.me>
<alpine.LNX.2.02.1306151936590.13067@darkstar.example.org> <kpk9ro$7sn$1@dont-
email.me> <tOSdnZi6LOt2OiPMnZ2dnUVZ5h-dnZ2d@giganews.com>
<slrnkrtoio.ibg.gsm@cable.mendelson.com>
NNTP-Posting-Host: bas1-montreal43-2925256521.dsl.bell.ca
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1371480435 3186 174.91.223.73 (17 Jun 2013 14:47:15 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 17 Jun 2013 14:47:15 GMT
In-Reply-To: <slrnkrtoio.ibg.gsm@cable.mendelson.com>
User-Agent: Alpine 2.02 (LNX 1266 2009-07-14)
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
```

On Mon, 17 Jun 2013, Geoffrey S. Mendelson wrote:

```
> coffelt2 wrote:
>>
>>      My "foxhole" radio never did perform, but our nearest 500 watt station
>> was 30 miles away.
>> The "Technical experts" writing of the day explained that the sensitive spot
>> on the blue blade
>> was the fine line where the blue coating met the sharpened edge, where there
>> was no blue.
>> Some think that since the bare sharpened edge tended to rust, there could
>> have been a
>> crude junction of sort where the beginning of rust interacted chemically
>> with something in the
>> blue substance. Wada U think?
>
> It may also have been impurities in the blade that caused it to work.
>
> While cleaning out things, I found some FAN brand blued steel blades,
> purchased by a late friend in the 1970's.
>
> Maybe someday I will find someone local to me (Jerusalem) that wants
> to try them. :-)
>
I suspect there are still plenty of those Blue Blade razors at the back of
medecine closets.  Just pushed back as new things come in.  Or maybe the
time is passed, the blades have finally been tossed out "nobody will ever
use these".

Kind of like old radios, a period when they are common but nobody wants
them, then later they are desired, but attrition has reduced the numbers.

   Michael  VE2BVW




From -1699723769544703871
X-Google-Thread: fc2a5,462615d6d787419a,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.138.165 with SMTP id qr5mr12695409pbb.8.1363194168421;
        Wed, 13 Mar 2013 10:02:48 -0700 (PDT)
MIME-Version: 1.0
Path: jm3ni48237pbb.0!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 13 Mar 2013 12:02:47 -0500
From: richard8123 <richard8123.b866919@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Converting from hollow to solid state
Date: Wed, 13 Mar 2013 16:20:23 +0000
Message-ID: <richard8123.b866919@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
Lines: 28
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-plbJFb/
ZfD9xiX3cXVdPkiMLXEKdMAl1hrRer+slfeHgwLxEwKWbxly2bagmGNZQIvB+b1xPxrzQJG1!OorrRF/
```

```
6lBVb1EnTeIxdcTeQf1oth3tCTJS8haSPx8KXOPbZ5WF8S/3o8PqbC4k9ezs6akKgUQci!aQkoq51JqP4=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1878
X-Original-Lines: 1
X-Original-Bytes: 1795
```

I have a turret drum that came from an old boatanchor (Murphy B40D).

Here is the front-end schematic:

http://www.portabletubes.co.uk/boats/schem1.jpg

I want to use this drum, but I want to employ transistors not valves.

Now today, I presume we can select a transistor to replace a valve, and it will be as good as, if not better than the old valve.

Any recommendations for suitable transistors for the local oscillator and the rf amplifiers? I'm trying not to have to modify the circuitry inside the drum.
Thanks.

Edit1: I'm thinking of using the hollow state circuitry after the Front-End. Best way to maintain the excellent audio of this receiver.

Edit2: I probably should draw out the tuned circuits only that are in the drum, post a link, and draw comments from that. Hopefully then a solid-state circuit can be built up.

--
richard8123

```
From 7603460777550776326
X-Google-Thread: 241b302a50,6e79a3cc99799aa3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.89.133 with SMTP id bo5mr1347757wib.6.1363402389978;
        Fri, 15 Mar 2013 19:53:09 -0700 (PDT)
MIME-Version: 1.0
Path: g1ni68479wig.0!nntp.google.com!feeder1.cambriumusenet.nl!
82.197.223.108.MISMATCH!feeder2.cambriumusenet.nl!feed.tweaknews.nl!
85.12.40.131.MISMATCH!xlned.com!feeder3.xlned.com!news.astraweb.com!
border5.a.newsrouter.astraweb.com!newsfeed10.multikabel.net!multikabel.net!
```

newsfeed20.multikabel.net!news.mi.ras.ru!goblin1!goblin.stu.neva.ru!
newsfeed.fsmpi.rwth-aachen.de!eternal-september.org!feeder.eternal-september.org!
mx05.eternal-september.org!.POSTED!not-for-mail
From: "Tim Williams" <tmoranwms@charter.net>
Newsgroups:
sci.electronics.design,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna Simulation in LTspice
Date: Wed, 13 Mar 2013 18:01:08 -0500
Organization: A noiseless patient Spider
Lines: 29
Message-ID: <khr0ci$pji$1@dont-email.me>
References: <kgmhkd$rq3$1@dont-email.me> <kgmn2i$da8$1@dont-email.me>
<kgoo4e$ts5$1@dont-email.me> <kgopqd$5lu$1@dont-email.me> <kgr44f$5lr$7@dont-email.me> <kgrlvp$rgk$1@dont-email.me> <kh83nl$uqo$1@dont-email.me>
<kh8pgv$nob$1@dont-email.me> <kha9e1$9qt$1@dont-email.me>
<5139584d$0$54952$c3e8da3$e408f015@news.astraweb.com> <khdkgg$lbg$1@dont-email.me>
<khdl8n$pf9$1@dont-email.me> <khdmfh$vkr$2@dont-email.me>
<513d3275$0$7262$c3e8da3$b1356c67@news.astraweb.com>
<khk1s9$q1c$1@speranza.aioe.org>
<513fc1b6$0$54939$c3e8da3$e408f015@news.astraweb.com>
<khpa7e$so2$1@speranza.aioe.org>
Injection-Date: Wed, 13 Mar 2013 22:59:30 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-host="c5496f60c1e2fe7da0e7ee177c343043";
logging-data="26226"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX1/sFReNZDYurr/yAkO0Re3W"
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:/6fCqZQAsUobc4RgRJxfJXa2ynA=
X-Priority: 3
X-MSMail-Priority: Normal

"Jef" <jeff@assystems.com> wrote in message
news:khpa7e$so2$1@speranza.aioe.org...

>> For a loop antenna with a secondary, there is voltage across the
>> antenna
>> winding and current through it. Which is the secondary responding to?
>
>
> Since you can't have a current thorough the antenna without a voltage
> the answer is both, It is a chicken and an egg situation tied together
> by Ohm's Law.

That said, low impedances look like constant voltage sources or shorts, and carry a lot of current, while high impedances look like constant current sources or opens, and develop a lot of voltage. It's plenty of an approximation, but when you call an SWR < 1.2 a good match, it doesn't take much in either direction to produce that.

This is relative to system impedance (50 ohms, say), or if not in a system with characteristic impedances, then some factor of Zo (377 ohms). At "lumped constant" frequencies, Zo and SWR and stuff aren't all that relevant anymore, but the concepts always apply.

Tim

--
Deep Friar: a very philosophical monk.
Website: http://seventransistorlabs.com

```
From 153188164409206827
X-Google-Thread: 241b302a50,462615d6d787419a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.89.133 with SMTP id bo5mr1347817wib.6.1363402395326;
        Fri, 15 Mar 2013 19:53:15 -0700 (PDT)
MIME-Version: 1.0
Path: g1ni68479wig.0!nntp.google.com!feeder1.cambriumusenet.nl!
82.197.223.108.MISMATCH!feeder2.cambriumusenet.nl!feed.tweaknews.nl!
85.12.40.131.MISMATCH!xlned.com!feeder3.xlned.com!newsfeed10.multikabel.net!
multikabel.net!newsfeed20.multikabel.net!news.mi.ras.ru!goblin3!gin-ad1-
unet1.teleglobe.net!goblin1!goblin2!goblin.stu.neva.ru!feeder.erje.net!
us.feeder.erje.net!news.glorb.com!border3.nntp.dca.giganews.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 13 Mar 2013 18:02:28 -0500
From: richard8123 <richard8123.b86bd78@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting from hollow to solid state
Date: Wed, 13 Mar 2013 17:23:20 +0000
Message-ID: <richard8123.b86bd78@radiobanter.com>
Organization: RadioBanter.com
References: <richard8123.b866919@radiobanter.com>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
RnN3mxx2NE0wDZp9YZXYZBhIXlrisQo0jvyCZxeJ3ylhfhtpnV2Cj5rWTXcyetjhQGEzPvdQPiqW1Nd!
xEKDBBiQ0GgFgT00KbSbCYuNIxdz5kwytiE9GqfCMq8qz20DT7NG9c51hHRZlN3rYEXpSfOXIxI6!
LRdxfrs1vFs=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 11
X-Original-Bytes: 1634
```

richard8123;802678 Wrote:
> I have a turret drum that came from an old boatanchor (Murphy B40D).

>
> Edit2: I probably should draw out the tuned circuits only that are in
> the drum, post a link, and draw comments from that. Hopefully then a
> solid-state circuit can be built up.

Here is a picture of the Front End as is and a picture with the RF
valves removed, but keeping (for now) the valve oscillator and mixer.

http://tinyurl.com/cp8cjcf

Section 1 includes drum pins 1-5, section 2 pins 6-10, section 3 pins
11-15 and oscillator pins 16-20.

Need modern transistor cicuit for the two RF stages.

--
richard8123

```
From -5434071966896149882
X-Google-Thread: fc2a5,a78264fedfdff9e8,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.93.230 with SMTP id cx6mr99441wib.5.1363322585486;
        Thu, 14 Mar 2013 21:43:05 -0700 (PDT)
Path: g1ni66068wig.0!nntp.google.com!fu-berlin.de!news.glorb.com!news-
out.readnews.com!transit3.readnews.com!panix!rri.panix.com!robomod!not-for-mail
From: rec-radio-info-request@panix.com (AmateurLogic.TV via rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.
radio.info
Subject: AmateurLogic.TV for Friday 15 March 2013
Followup-To:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Date: Fri, 15 Mar 2013 00:43:04 EDT
Organization: AmateurLogic.TV
Lines: 18
Approved: RRI Admin <rec-radio-info-request@panix.com>
Message-ID: <bcaec5182c94cfca5304d7ef45d1@google.com>
NNTP-Posting-Host: panix6.panix.com
Mime-Version: 1.0
X-Trace: reader2.panix.com 1363322584 19835 166.84.1.6 (15 Mar 2013 04:43:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 15 Mar 2013 04:43:04 +0000 (UTC)
X-RRI-Policy: http://www.panix.com/~rram/usenet/rri/index.html
X-RRI-Info-1: Send submissions to             rec-radio-info@panix.com
X-RRI-Info-2: Send technical complaints to    rec-radio-info-request@panix.com
X-RRI-Info-3: Send complaints about policy to rec-radio-info-request@panix.com
X-Comment-1: The moderators do not necessarily agree or disagree with this
```

```
article.
X-Comment-2: Moderators do not verify the accuracy of posted information.
X-Comment-3: Acceptance does not convey approval of any external references.
X-Robomod: STUMP, ichudov@algebra.com (Igor Chudov), C++/Perl/Unix Consulting
X-Moderation-1: Hassle-Free commercial hosting of moderation sites available
X-Moderation-2: See http://www.algebra.com/~ichudov/stump
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
        d=google.com; s=20120113;
        h=mime-version:x-received:sender:precedence:message-id:date:subject
         :from:to:content-type;
        bh=FEazFcP5IAZtdm0oOS/YbmCSJ8+6/FFQLcjk0z1xjUY=;
        b=HtAKWkQ5SUDa5acv7ZIC00TqWz3csXAqlefU1lvuTyPA75Ua63JdwYsR7eGESQsa9A
         BorkGAd/Ja4Q0mxJtT6HN19pHp15QASoCVtgLy5Rt48XWsvdDESFLzWEAr6cReJoRw/q
         pTXOu8nNOoxGnOyCVb9Co/yak7P49NY7IrqLfhcmUU+1np+FAxKWtCk4lAEvwFb/sxOc
         XOJc46mMTvZMrz+TXutEUAyW+1J/f9+9oK9cGo+8p+kI/AMfCOMuS9XnOz2cTw9wxVce
         5nnyF2WRS3921iFPFC+zJqB1bx3YMrqAQk5O992Z4Lh8yZ3D5j9NvadrgzxTOka3HPpp
         OiCg==
X-StripMime: Non-text section removed by stripmime
Content-Type: text/plain; charset=UTF-8; format=flowed; delsp=yes
```

AmateurLogic.TV

///

AmateurLogic.TV Episode 51

Posted: 14 Mar 2013 03:00 AM PDT
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic51_hi.wmv

Tommy simplifies D-Star Callsign Routing. Peter visits the Wyong Field Day (Hamfest). Emile has some cheap analog and digital SSTV solutions. And

George builds the Arduinolator (Arduino Square Wave Oscillator) and shows just how easy and fun it can be to experiment with microcontrollers.

1:00:54 of ALTV fun!
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic51_hi.wmv

```
From -6943024714875734365
X-Google-Thread: 241b302a50,462615d6d787419a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.89.133 with SMTP id bo5mr21812wib.6.1363919199384;
        Thu, 21 Mar 2013 19:26:39 -0700 (PDT)
MIME-Version: 1.0
Path: p18ni6108wiv.0!nntp.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
194.109.133.81.MISMATCH!newsfeed.xs4all.nl!newsfeed2.news.xs4all.nl!xs4all!
border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!nntp.giganews.com!
```

newsreader4.netcologne.de!news.netcologne.de!news.glorb.com!news.astraweb.com!
border6.newsrouter.astraweb.com!not-for-mail
From: vk7ro@netspace.net.au (Richard Rogers)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting from hollow to solid state
Date: Sun, 17 Mar 2013 04:45:34 GMT
Message-ID: <5145478f.1658343@news.netspace.net.au>
References: <richard8123.b866919@radiobanter.com>
X-Newsreader: Forte Free Agent 1.21/32.243
Lines: 56
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: d5c01fdf.news.astraweb.com
X-Trace: DXC=9jBX[2DPK2g\;1IogBA]HfL?0kYOcDh@jN7:H2`MmAUcQ4`Yco4[6Ej]G;2>V^?
kWc6:]B@48BMMk[XdoGBce;Xgdn:bFj4XL=f

G'day,

I have modified valve receivers in the past by using dual gate
mosfets.   In my parts drawer now, I still have a couple of MFE131s,
but any dual gate mosfet should work OK although now they are usually
only available in surface mount.

I also used single gate juunction fets for the oscillator and BFO.
The ones I have left are MPF102.

Fets work OK in valve receivers as RF ampliiers, but not well as IF
amplifiers where the primary of the IF tramsformer is shunted by the
low output impedance of the fet.

Your B40 circuit looks a little tricky to use.   Probably a resitive
load for the second RF amplifier would be OK (about 1K?) and I think
some experimenting with the oscillator circuit would be necessary to
find a satifactory arrangement.

Good luck.   I reckon you'll be busy for a while!

73, Ric,   VK7RO.

On Wed, 13 Mar 2013 16:20:23 +0000, richard8123
<richard8123.b866919@radiobanter.com> wrote:

>
>I have a turret drum that came from an old boatanchor (Murphy B40D).
>
>Here is the front-end schematic:
>
>http://www.portabletubes.co.uk/boats/schem1.jpg
>
>I want to use this drum, but I want to employ transistors not valves.
>
>Now today, I presume we can select a transistor to replace a valve, and
>it will be as good as, if not better than the old valve.
>

>Any recommendations for suitable transistors for the local oscillator
>and the rf amplifiers? I'm trying not to have to modify the circuitry
>inside the drum.
>Thanks.
>
>Edit1: I'm thinking of using the hollow state circuitry after the
>Front-End. Best way to maintain the excellent audio of this receiver.
>
>Edit2: I probably should draw out the tuned circuits only that are in
>the drum, post a link, and draw comments from that. Hopefully then a
>solid-state circuit can be built up.
>
>
>
>
>--
>richard8123

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Subject: Re: Metal transformer enclosure purpose?
From: raypsi <RBorowiak@gmail.com>
Injection-Date: Sun, 17 Mar 2013 14:56:25 +0000
Content-Type: text/plain; charset=ISO-8859-1

On Saturday, March 2, 2013 11:00:49 PM UTC-5, Frank wrote:
> Clamshell-looking enclosure on small AC power transformers. Magnetic
>
> shielding to prevent interference with nearby wires?

IMO it's an electrical code requirement or navy military designation every military grade transformer I've see is hermetically sealed

73 de n8zu

```
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Date: Sun, 17 Mar 2013 08:11:56 -0700 (PDT)
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Complaints-To: groups-abuse@google.com
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Subject: Re: Converting from hollow to solid state
From: raypsi <RBorowiak@gmail.com>
Injection-Date: Sun, 17 Mar 2013 15:11:57 +0000
Content-Type: text/plain; charset=ISO-8859-1
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HeY OT:

I would use cascode mosfets 'cause that's the only way to eliminate the Miller
effect they used to make valve tuners that cascoded triodes then they invented
valves that could get around the miller effect so no more cascode triodes
IMO you could use matched GaS fets on 7pin or 9 pin valve plugs then in that
circuit your going to have to transform the low output impedance of the fets to
the high impedance out of the valves with a small toroid transformer
and bias the gates properly

73 de n8zu

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From: Arid ace <nonsmoker@freedom.smokes.oil>
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Subject: Re: Converting from hollow to solid state
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References: <richard8123.b866919@radiobanter.com>
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Date: Sun, 17 Mar 2013 19:54:23 -0500
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Content-Type: text/plain; charset=us-ascii
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On Wed, 13 Mar 2013 16:20:23 +0000, richard8123
<richard8123.b866919@radiobanter.com> wrote:

>
>I have a turret drum that came from an old boatanchor (Murphy B40D).
>
>Here is the front-end schematic:
>
>http://www.portabletubes.co.uk/boats/schem1.jpg
>
>I want to use this drum, but I want to employ transistors not valves.
>
>Now today, I presume we can select a transistor to replace a valve, and
>it will be as good as, if not better than the old valve.

Replacing valves with semiconductors can result in much better performance but
such an operation (optimizing for performance) rarely is a one to one
replacement.

>Any recommendations for suitable transistors for the local oscillator
>and the rf amplifiers? I'm trying not to have to modify the circuitry
>inside the drum.
>Thanks.

The two RF amps, the oscillator and the mixer could be replaced with BF981, a
dual gate mosfet that can be handled easily (no SMD). However, with a one to one
replacement, R113 & 114 have to be paralleled with an RF choke, >= 10 x the

inductance of the primary of TR103. R117 will have to be changed to a much smaller value, about 100 ohm. The second gate of the mixer BF981 must be connected to R120 / C130. No bias required. What has to be changed too is the supply voltage: for the BF981, Vds <=20V.

>
>Edit1: I'm thinking of using the hollow state circuitry after the
>Front-End. Best way to maintain the excellent audio of this receiver.
>
>Edit2: I probably should draw out the tuned circuits only that are in
>the drum, post a link, and draw comments from that. Hopefully then a
>solid-state circuit can be built up.

A better modification, based on the much higher gain from the BF981 as compared to the RF and mixer valves, would be to omit the 2nd RF stage IOW use TR102 and TR103 as bandpass filter instead. Instead of a BF981 as mixer, better performance could be obtained from a Gilbert cell with jfets like (matched) J310 or preferably, single gate small-signal mosfets like the BF987, because of its low Cgs of 35fF.

Regards,
Jan

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References: <ddfead95-dfd5-4c26-9704-d852a0b4ba36@j2g2000yqj.googlegroups.com> <ce6667c0-7b63-4efb-a8ed-45968bff001f@googlegroups.com>
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Subject: Re: Metal transformer enclosure purpose?
From: Frank <fatherhaskell@yahoo.com>
Injection-Date: Mon, 18 Mar 2013 04:58:53 +0000

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On Mar 17, 10:56=A0am, raypsi <RBorow...@gmail.com> wrote:
> On Saturday, March 2, 2013 11:00:49 PM UTC-5, Frank wrote:
> > Clamshell-looking enclosure on small AC power transformers. =A0Magnetic
>
> > shielding to prevent interference with nearby wires?
>
> IMO it's an electrical code requirement or navy military designation ever=
y military grade transformer I've see is hermetically sealed

True of the several WWII / Korea vintage transformers in my junk
box.



From 2268363680346655588
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Solution Manual Operations Management : Quality and Competitiveness in a Gl=
obal Environment (5th Ed., Russell & Taylor)
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in (6th Ed., Russell & Taylor)
Solution Manual Operations Management : Creating Value Along the Supply Cha=
in (7th Ed., Russell & Taylor)
Solution Manual Auditing Cases (3rd Ed., Beasley, Buckless, Glover & Prawit=
t)
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Beasley, Buckless, Glover & Prawitt)
Solution Manual Auditing and Other Assurance Services, Canadian Tenth Editi=
on (10th Ed., Arens, Elder, Beasley & Splettstoesser-Hogeterp)
Solution manual Auditing : The Art and Science of Assurance Engagements, Ca=

nadian Eleventh Edition (11th Ed., Arens, Elder, Beasley & Splettstoesser-H=
ogeterp)
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11th Ed., Arens, Elder & Beasley)=20
Solution Manual Auditing and Assurance Services : An Intergrated Approach (=
12th Ed., Arens, Elder & Beasley)=20
Solution Manual Auditing and Assurance Services : An Intergrated Approach (=
13th Ed., Arens, Elder & Beasley)=20
Solution Manual Auditing and Assurance Services : An Intergrated Approach (=
14th Ed., Arens, Elder & Beasley)
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inancial Reporting (8th Ed., Boynton & Johnson)
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es)
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nes)
Solution Manual Investments : Analysis and Management (11th Ed., Charles Jo=
nes)
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(2nd Ed., Powell & Baker)
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rz & Jason Hunter)
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Solution Manual Sport Management : Principles and Application (Russell Hoye=
, Aaron Smith, et al.)
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n (10th Ed., Ball, McCulloch, Geringer, Minor & McNett)
Solution Manual International Business : The Challenge of Global Competitio=
n (11th Ed., Ball, McCulloch, Geringer, Minor & McNett)
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onald DePamphilis)
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per & Michael Hall)
Solution Manual Nation branding : Concepts, Issues, Practice (Keith Dinnie)
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 & S. Hadjidakis)

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Test bank Managing Cultural Differences : Global Leadership Strategies for =
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 Paul J. Deitel, Tem R. Nieto)
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 Sundaresan)
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Solution Manual Organisations and the Business Environment (2nd Ed., David =
Campbell & Tom Craig)
Solution Manual Strategic Operations Management (2nd Ed., Brown, Lamming, B=
essant & Jones)
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m (4th Ed., Boniface & Cooper)
Solution Manual Worldwide Destinations : The Geography of Travel and Touris=
m (5th Ed., Boniface & Cooper)
Solution Manual Worldwide Destinations Casebook : The Geography of Travel a=
nd Tourism (2nd Ed., Boniface & Cooper)
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 Morgan & Ranchhod)
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son)
Solution Manual Strategic Marketing Planning (2nd Ed., C. Gilligan & R. Wil=
son)
Solution Manual Strategic Marketing Management : Planning, Implementation a=
nd Control (3rd Ed., Wilson & Gilligan)
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, Cases and Practices (Paul Copley)
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Solution Manual Principles of Financial Engineering (2nd Ed., Salih Neftci)
Solution Manual A Behavioral Approach to Asset Pricing (2nd Ed., Hersh Shef=
rin)
Solution Manual Managing Finance : A Socially Responsible Approach (D. Crow=
ther)
Solution Manual Customer Relationship Management (2nd Ed., Francis Buttle)
Solution Manual Introduction to Knowledge Management : KM in Business (Grof=
f & Jones)
Solution Manual Principles of Retailing (J. Fernie, S. Fernie & Moore)
Solution Manual Business Strategy (2nd Ed., Campbell, Stonehouse & Houston)
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Solution Manual Market-Led Strategic Change (4th Ed., Nigel Piercy)
Solution Manual International Hospitality Management : Concepts and cases (=
Alan Clarke & Wei Chen)
Solution Manual Electronic Commerce : Principles and Practice (Hossein Bidg=
oli)
Solution Manual Financial Management for Hospitality Decision Makers (Chris=
 Guilding)
Solution Manual Accounting Essentials for Hospitality Managers (2nd Ed., Ch=
ris Guilding)
Solution Manual Global Business Leadership (E.S. Wibbeke)
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nd, Ensor & Ashford)
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ring, and Financing Private and Public Projects (Stefano Gatti)
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-Romero)
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 Thakor)
Solution Manual Intermediate Financial Theory (2nd Ed., Danthine & Donaldso=
n)
Solution Manual Essential Law for Marketers (Ardi Kolah)
Solution Manual Introduction to Health and Safety at Work (4th Ed., Phil Hu=
ghes & Ed Ferrett)
Solution manual An Introduction to the Mathematics of Financial Derivatives=
 (2nd Ed., Salih Neftci)
Solution manual Introduction to Emergency Management (3rd Ed., Haddow, Bull=
ock & Coppola)
Solution manual Food and Beverage Management (4th Ed., Davis, Lockwood, Pan=
telidis & Alcott)
Solution manual Maritime Security : An Introduction (Michael McNicholas)
Solution manual Contemporary Logistics (8th Ed., Paul R. Murphy, Donald Woo=
d)
Solution manual Contemporary Logistics (9th Ed., Paul R. Murphy, Donald Woo=
d)


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contact me to :      mattosbw1@gmail.com          mattosbw1(at)gmail.com


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```

```
From 4589491043104735902
X-Google-Thread: 241b302a50,96c9f0dff24925c2,start
X-Google-Attributes: gid241b302a50,public,usenet
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 20 Mar 2013 18:21:18 -0700 (PDT)
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glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Wed, 20 Mar 2013 18:21:18 -0700 (PDT)
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=190.237.153.17;
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NNTP-Posting-Host: 190.237.153.17
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <90679341-afad-46ec-83e6-06aead6cde63@googlegroups.com>
Subject: 4185 Solution manuals & Test banks to Materials Engineering Books
From: abnew17@gmail.com
Injection-Date: Thu, 21 Mar 2013 01:21:18 +0000
Content-Type: text/plain; charset=ISO-8859-1
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Solution manual Fundamentals of Materials Science and Engineering : Integrated Approach (3rd Ed., William Callister)
Solution manual Fundamentals of Materials Science and Engineering : Integrated Approach (4th Ed., William Callister & David G. Rethwisch)
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Solution manual DeGarmo's Materials and Processes in Manufacturing (10th Ed., E.

Paul DeGarmo, J. T. Black, Ronald A. Kohser)
Solution Manual DeGarmo's Materials and Processes in Manufacturing (11th Ed., J. T. Black, Ronald A. Kohser)
Solution manual Foundations of Materials Science and Engineering (3rd Ed, Smith)
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Solution manual Mechanical Behavior of Materials (W.F. Hosford)
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Solution manual Deformation and Fracture Mechanics of Engineering Materials (4th Ed., Richard Hertzberg)
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From -7364198107766656266
X-Google-Thread: 241b302a50,96c9f0dff24925c2
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit

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        Tue, 26 Mar 2013 19:21:11 -0700 (PDT)
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border2.nntp.dca.giganews.com!backlog2.nntp.ams.giganews.com!
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newsreader4.netcologne.de!news.netcologne.de!eu.feeder.erje.net!feeder.erje.net!
us.feeder.erje.net!news.glorb.com!npeer01.iad.highwinds-media.com!news.highwinds-
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news6
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 4185 Solution manuals & Test banks to Materials Engineering Books
Date: Sat, 23 Mar 2013 07:28:25 -0500
Organization: NewsGuy - Unlimited Usenet $23.95
Lines: 12
Message-ID: <kik75k0121i@news6.newsguy.com>
References: <90679341-afad-46ec-83e6-06aead6cde63@googlegroups.com>
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Mime-Version: 1.0
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
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X-Antivirus: avast! (VPS 130323-1, 03/23/2013), Outbound message
X-Antivirus-Status: Clean
X-Received-Bytes: 1327
X-Original-Bytes: 1601
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

abnew17@gmail.com wrote:
> I do not review the forums, just send me an email. Please do not use emails from
servers "LIVE" ,

all they are take as spam emails in my inbox.
>

> contact me to :      mattosbw1@gmail.com          mattosbw1(at)gmail.com
>
>
>
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Gawd, I'd hate to get spam in my newsgroup inbox.


From -2135958205840932193
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X-Google-Attributes: gid241b302a50,public,usenet
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nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 23 Mar 2013 12:02:25 -0500
From: vu2nan <vu2nan.b939818@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: A homebrew RF Milliammeter
Date: Sat, 23 Mar 2013 14:49:06 +0000
Message-ID: <vu2nan.b939818@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
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Lines: 13
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X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1110
X-Original-Lines: 7
X-Original-Bytes: 1027
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Here's the link.

http://nandustips.blogspot.in/2013/03/a-homebrew-rf-milliammeter.html

73,

Nandu.

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vu2nan

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From: highlandham <highlandham.nospam@rfburns.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Metal transformer enclosure purpose?
Date: Mon, 25 Mar 2013 15:07:25 +0000
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Lines: 19
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Injection-Date: Mon, 25 Mar 2013 15:05:21 +0000 (UTC)
Injection-Info: mx05.eternal-september.org; posting-
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     posting-account="U2FsdGVkX18PUK/XruhSsGCnC9MqJDFuVC5qRCfvyE0="
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:17.0) Gecko/20130308 Thunderbird/
17.0.4
In-Reply-To: <01b63c26-3132-4ce1-86ad-cec520e62b44@o5g2000vbp.googlegroups.com>
Cancel-Lock: sha1:0wjOIo+LsiSy1851VajzJapMSso=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 18/03/13 04:58, Frank wrote:
> On Mar 17, 10:56 am, raypsi <RBorow...@gmail.com> wrote:
>> On Saturday, March 2, 2013 11:00:49 PM UTC-5, Frank wrote:
>>> Clamshell-looking enclosure on small AC power transformers.  Magnetic
>>
>>> shielding to prevent interference with nearby wires?
>>
>> IMO it's an electrical code requirement or navy military designation every
military grade transformer I've see is hermetically sealed
>
> True of the several WWII / Korea vintage transformers in my junk
> box.
>
===========================
A metal enclosure (apart for mechanical protection)  can be avoided by
using toroid transformers ,similar to RF toroids ,not requiring a
shielding can like cylinder shape inductors with or without a ferrous
core ,which need a screening can.

Frank    GM0CSZ / KN6WH


From 7984339782145286418
X-Google-Thread: 241b302a50,98bb0a1437e16deb
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
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 26 Mar 2013 10:04:12 -0700 (PDT)
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glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Tue, 26 Mar 2013 10:04:12 -0700 (PDT)
In-Reply-To: <BW0S8xE.vimx@delphi.com>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=208.188.224.209;
 posting-account=lThCLwoAAABokh05Lt5n2IewCRc7nyg2
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References: <BW0S8xE.vimx@delphi.com>
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <1db248ad-1bc8-4abf-9700-1fd136e926eb@googlegroups.com>
Subject: Re: Quadruple Sideband?
From: jasondalesweet@gmail.com
Injection-Date: Tue, 26 Mar 2013 17:04:12 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

I just got a Quad Sideband signal yesterday.

Here's how it works for AM.

When you modulate 100%, you get one on each side, 200% two on each side.

They act like additional amplitude, like an amplifier.

The more sidebands there are, the louder it will be x1,x2,x3,x4 louder.

```
From -6939296749254165453
X-Google-Thread: 241b302a50,98bb0a1437e16deb
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.20.239 with SMTP id q15mr3458813wie.7.1364937542399;
        Tue, 02 Apr 2013 14:19:02 -0700 (PDT)
MIME-Version: 1.0
Path: p18ni33651wiv.0!nntp.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
194.109.133.87.MISMATCH!newsfeed.xs4all.nl!newsfeed1.news.xs4all.nl!xs4all!
border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!
border2.nntp.dca.giganews.com!border3.nntp.dca.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!news.bbs-scene.org!de-l.enfer-du-
nord.net!feeder2.enfer-du-nord.net!gegeweb.org!aioe.org!.POSTED!not-for-mail
From: jimp@specsol.spam.sux.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Quadruple Sideband?
Date: Tue, 26 Mar 2013 17:31:48 -0000
Organization: Aioe.org NNTP Server
```

```
Lines: 16
Message-ID: <4l292a-adq.ln1@mail.specsol.com>
References: <BW0S8xE.vimx@delphi.com>
<1db248ad-1bc8-4abf-9700-1fd136e926eb@googlegroups.com>
NNTP-Posting-Host: 5FQzpG9PgxCHgWX2ynv4yg.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: tin/2.0.1-20111224 ("Achenvoir") (UNIX) (SunOS/5.10 (i86pc))
X-Notice: Filtered by postfilter v. 0.8.2

jasondalesweet@gmail.com wrote:
> I just got a Quad Sideband signal yesterday.
>
> Here's how it works for AM.
>
> When you modulate 100%, you get one on each side, 200% two on each side.
>
> They act like additional amplitude, like an amplifier.
>
> The more sidebands there are, the louder it will be x1,x2,x3,x4 louder.

Babbling nonsense.



--
Jim Pennino



From -2276990361274681752
X-Google-Thread: fc2a5,98bb0a1437e16deb
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.136.104 with SMTP id pz8mr2607645pbb.3.1364357496726;
        Tue, 26 Mar 2013 21:11:36 -0700 (PDT)
Path: jv11ni207pbb.0!nntp.google.com!news.glorb.com!usenet.stanford.edu!
news.kjsl.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Quadruple Sideband?
Date: Wed, 27 Mar 2013 00:11:46 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 26
Sender: et472@65.92.63.222
Message-ID: <alpine.LNX.2.02.1303270008540.16416@darkstar.example.org>
References: <BW0S8xE.vimx@delphi.com>
<1db248ad-1bc8-4abf-9700-1fd136e926eb@googlegroups.com> <4l292a-
adq.ln1@mail.specsol.com>
NNTP-Posting-Host: 65.92.63.222
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1364357495 22080 65.92.63.222 (27 Mar 2013 04:11:35 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 27 Mar 2013 04:11:35 GMT
In-Reply-To: <4l292a-adq.ln1@mail.specsol.com>
```

```
User-Agent: Alpine 2.02 (LNX 1266 2009-07-14)
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

On Tue, 26 Mar 2013, jimp@specsol.spam.sux.com wrote:

> jasondalesweet@gmail.com wrote:
>> I just got a Quad Sideband signal yesterday.
>>
>> Here's how it works for AM.
>>
>> When you modulate 100%, you get one on each side, 200% two on each side.
>>
>> They act like additional amplitude, like an amplifier.
>>
>> The more sidebands there are, the louder it will be x1,x2,x3,x4 louder.
>
> Babbling nonsense.
>
You should see the original 1994 thread, whre someone speculates
about something but is making some sort of sense, if ill informed, and the
eight replies that the message got back then.

Yes indeed, this is yet another case of someone replying to an old message
via google, and as is the case virtually every time, the first person
replying has really nothing to add.


    Michael  VE2BVW




From 4680767954263636713
X-Google-Thread: fc2a5,98bb0a1437e16deb
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.98.103 with SMTP id eh7mr2454088wib.3.1364425325143;
        Wed, 27 Mar 2013 16:02:05 -0700 (PDT)
Path: p18ni21683wiv.0!nntp.google.com!proxad.net!feeder1-2.proxad.net!
feeder.erje.net!eu.feeder.erje.net!newspeer1.nac.net!news.astraweb.com!
border5.newsrouter.astraweb.com!not-for-mail
From: Jim Mueller <wrongname@nospam.com>
Subject: Re: Quadruple Sideband?
Newsgroups: rec.radio.amateur.homebrew
References: <BW0S8xE.vimx@delphi.com>
     <1db248ad-1bc8-4abf-9700-1fd136e926eb@googlegroups.com>
User-Agent: Pan/0.136 (I'm far too busy being delicious; GIT 926a150
     git://git.gnome.org/pan2)
MIME-Version: 1.0
Date: 27 Mar 2013 23:02:04 GMT
Lines: 19
Message-ID: <51537a6c$0$28380$c3e8da3$aae71a0a@news.astraweb.com>
Organization: Unlimited download news at news.astraweb.com
```

NNTP-Posting-Host: 595155ed.news.astraweb.com
X-Trace: DXC=CYAi0>eGZb=aTZ9_0GJc??L?
0kYOcDh@:5DNTW`ZD934i<Mg6XalR70FeK=h[\Ra]4h1mWJX8RLZ=F:@e5`;C]C1[A2iR[3EVC9;\d=:NF
f:I=
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

On Tue, 26 Mar 2013 10:04:12 -0700, jasondalesweet wrote:

> I just got a Quad Sideband signal yesterday.
>
> Here's how it works for AM.
>
> When you modulate 100%, you get one on each side, 200% two on each side.
>
> They act like additional amplitude, like an amplifier.
>
> The more sidebands there are, the louder it will be x1,x2,x3,x4 louder.

Too bad he didn't wait until Monday; it would be appropriate then!

--
Jim Mueller wrongname@nospam.com

To get my real email address, replace wrongname with dadoheadman.
Then replace nospam with fastmail. Lastly, replace com with us.

From -8048644356052241754
X-Google-Thread: 241b302a50,98bb0a1437e16deb
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.136.104 with SMTP id pz8mr2967594pbb.3.1364938413382;
        Tue, 02 Apr 2013 14:33:33 -0700 (PDT)
MIME-Version: 1.0
Path: jv11ni500pbb.0!nntp.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
backlog1.nntp.ams.giganews.com!border3.nntp.ams.giganews.com!
border1.nntp.ams.giganews.com!border4.nntp.ams.giganews.com!
border2.nntp.ams.giganews.com!border2.nntp.dca.giganews.com!news.bbs-scene.org!
goblin3!goblin.stu.neva.ru!news.ripco.com!news.qymp.de!texta.sil.at!geiz-ist-
geil.priv.at!news.iks-jena.de!newsfeed1.eu.ignite.net!news-hub.siol.net!
newsfeed.tele2net.at!news.glorb.com!border3.nntp.dca.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 27 Mar 2013 18:02:27 -0500
From: Channel Jumper <Channel.Jumper.b993278@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Quadruple Sideband?
Date: Wed, 27 Mar 2013 22:39:46 +0000
Message-ID: <Channel.Jumper.b993278@radiobanter.com>
Organization: RadioBanter.com

References: <BW0S8xE.vimx@delphi.com>
<1db248ad-1bc8-4abf-9700-1fd136e926eb@googlegroups.com> <4l292a-adq.ln1@mail.specsol.com>
<alpine.LNX.2.02.1303270008540.16416@darkstar.example.org>
Lines: 75
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-pxwVa83ve23d5OKlwOOF1ShinNaP+0jMq3P+KeBfO7m6MA4j/
FyZKIBwlPHfnoqTi+RU3GEdMb/b7Gv!
cFpR9EpivuJ2BUfp4PxYOA1TamIv4qOksfC7I3WxTQJAhvQBAr5WvBtESFp3m6+1Y3czoGGmtGQS!
EV3TPlFlI74P+Vw=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Lines: 42
X-Original-Bytes: 3924
Bytes: 4345
X-Received-Bytes: 4493

'Michael Black[_2_ Wrote:
> ;803134']On Tue, 26 Mar 2013, jimp@specsol.spam.sux.com wrote:
> -
> jasondalesweet@gmail.com wrote:-
> I just got a Quad Sideband signal yesterday.
>
> Here's how it works for AM.
>
> When you modulate 100%, you get one on each side, 200% two on each
> side.
>
> They act like additional amplitude, like an amplifier.
>
> The more sidebands there are, the louder it will be x1,x2,x3,x4
> louder.-
>
> Babbling nonsense.
> -
> You should see the original 1994 thread, where someone speculates
> about something but is making some sort of sense, if ill informed, and
> the
> eight replies that the message got back then.
>
> Yes indeed, this is yet another case of someone replying to an old
> message
> via Google, and as is the case virtually every time, the first person
> replying has really nothing to add.
>
>
> Michael VE2BVW

I have electronic and radio books that are 70 years old and nothing inside of any of them ever came close to the confabulations this person proposes.

You have a carrier - which does nothing except carry the intelligence and you have a upper and a lower side band - which is the intelligence that rides upon the carrier. And that is it for AM!

In single side band you suppress one side band which forces the energy up into the other side band.

When Regency came out with Double Suppressed Side Band, they suppressed both the carrier and one side band.. The model I had was the Range Gain II or the Imperial. Either model required another radio that could do the same thing in order for it to work - else you ended up talking to yourself.

When the Japanese came into the market with the cheap CB radios, all that technology was forgotten and the companies that made it were soon forced to do other things or get out of the business because the days of quality American Made CB radios came to an end when Cobra came out with a $39.00 AM CB that did the same thing as the more expensive units - just didn't have SSB or DSSB...

Television used a mode called Vestigial side band where part of the one side band was suppressed and the remaining energy was diverted up into the remaining side band.

If there was a way to double the power, don't you think that someone would have came up with it long before now?
AM for the most part is dead as far as commercial broadcast goes and the only people who participates in it on Amateur Radio are the ones with the old boat anchors who wants to keep their tubes warm, who thinks that they are doing something when they broadcast with their old equipment.

It usually ends up being a bunch of old lids who talks just to hear themselves talk, with nothing of no importance to say and just looking for an audience...

--
Channel Jumper

```
From -3383757669759421489
X-Google-Thread: 107ada,63e85e012b5c90a4,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,63e85e012b5c90a4,start
X-Google-NewGroupId: yes
X-Google-Attributes: gida3e752f117,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
X-Received: by 10.66.120.207 with SMTP id le15mr2580557pab.20.1364444728655;
```

```
        Wed, 27 Mar 2013 21:25:28 -0700 (PDT)
Path: q9ni25925pba.1!nntp.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!news-
out.readnews.com!transit4.readnews.com!panix!rri.panix.com!robomod!not-for-mail
From: rec-radio-info-request@panix.com (AmateurLogic.TV via rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.
radio.info
Subject: AmateurLogic.TV for Thursday 28 March 2013
Followup-To:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Date: Thu, 28 Mar 2013 00:25:28 EDT
Organization: AmateurLogic.TV
Lines: 18
Approved: RRI Admin <rec-radio-info-request@panix.com>
Message-ID: <f46d04447119d43e3a04d8f48a95@google.com>
NNTP-Posting-Host: panix6.panix.com
Mime-Version: 1.0
X-Trace: reader2.panix.com 1364444728 2352 166.84.1.6 (28 Mar 2013 04:25:28 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 28 Mar 2013 04:25:28 +0000 (UTC)
X-RRI-Policy: http://www.panix.com/~rram/usenet/rri/index.html
X-RRI-Info-1: Send submissions to             rec-radio-info@panix.com
X-RRI-Info-2: Send technical complaints to    rec-radio-info-request@panix.com
X-RRI-Info-3: Send complaints about policy to rec-radio-info-request@panix.com
X-Comment-1: The moderators do not necessarily agree or disagree with this
article.
X-Comment-2: Moderators do not verify the accuracy of posted information.
X-Comment-3: Acceptance does not convey approval of any external references.
X-Robomod: STUMP, ichudov@algebra.com (Igor Chudov), C++/Perl/Unix Consulting
X-Moderation-1: Hassle-Free commercial hosting of moderation sites available
X-Moderation-2: See http://www.algebra.com/~ichudov/stump
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
        d=google.com; s=20120113;
        h=mime-version:x-received:sender:precedence:message-id:date:subject
         :from:to:content-type;
        bh=pRGGUad+2/qUrs6O/2Z/8ZyHyN0xtXcw3Nh7QRLyC8A=;
        b=mstGySVo98ScOHiD+Fm6Mjui92RMPRzcD1Ju0jNUl6sNVarOVCLTD3U7Yi9nBQf1El
         8o8YM9d5I8NmkvcJNSlsKALAu/p173D2LASPkZ9pG7sL9ibQrtKLlW0ilbnipFf0DENK
         DDJ4Qjyka5wfKE8BqYbsZIXb/+sBdpLo9wLJug6rvKpUzfNzd/AP4PowAnnpQThm1vtv
         7CvEND8kpN3VeXjQai/rz5soLc+MPpDoMrpp8G6KxMvY3VFp7PJuLuzkDyEj9HvSyscA
         AuZDnTtar+8PhWgfPCo9RjNAmHiS8etgQjH+1squ/mVX3EWirfRna4XjCiPh61HQppbd
         Y8cQ==
X-StripMime: Non-text section removed by stripmime
X-Received-Bytes: 3174
Content-Type: text/plain; charset=UTF-8; format=flowed; delsp=yes
```

AmateurLogic.TV

///

AmateurLogic.TV Episode 52

Posted: 27 Mar 2013 03:00 AM PDT

http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic52_hi.wmv

George visited GigaParts in Huntsville Alabama for Ham Radio Day on March 16th. We take a look at the store and visit with

some of the manufacturers reps to find out what’s new. It was a great event at a great ‘Candy Store’.

38:45 of extra ALTV fun!
This posting includes a media file:
http://www.podtrac.com/pts/redirect.wmv/www.amateurlogic.tv/transmitter/video/amlogic52_hi.wmv

```
From 7829019789013174630
X-Google-Thread: fc2a5,7fb1d1ceb2053a64,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.86.138 with SMTP id p10mr3836197paz.14.1353461759875;
        Tue, 20 Nov 2012 17:35:59 -0800 (PST)
MIME-Version: 1.0
Received: by 10.50.153.234 with SMTP id vj10mr4546846igb.4.1353461759834; Tue,
 20 Nov 2012 17:35:59 -0800 (PST)
Path: s9ni239pbb.0!nntp.google.com!kr7no3710853pbb.0!postnews.google.com!
q5g2000pbk.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Tue, 20 Nov 2012 17:35:59 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: q5g2000pbk.googlegroups.com; posting-host=117.199.245.123;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
NNTP-Posting-Host: 117.199.245.123
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:16.0) Gecko/20100101 Firefox/
16.0,gzip(gfe)
Message-ID: <207233cf-9b04-40d6-9650-e235074761c3@q5g2000pbk.googlegroups.com>
Subject: HOT VIDEOS FOR YOUTH AND ALL ADULT PEOPLE 2011 SEXY PHOTOS
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Injection-Date: Wed, 21 Nov 2012 01:35:59 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.in/

ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.in/2010/09/hot-lip-kiss-135.html

ALL JOBS   SITES FREE SEE

http://jobstwo.blogspot.in/

HOT VIDEOS

http://hotvideotoou.blogspot.in/2011/01/kiss-videos.html

hot lip kiss
http://hotvidos.blogspot.in/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.in/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.in/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.in/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.in/2010/07/tamil-hot-videos.html

```
From -2160442823686569558
X-Google-Thread: fc2a5,17c33c3b2be1bea6,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.79.105 with SMTP id i9mr1261777pax.34.1353540487938;
        Wed, 21 Nov 2012 15:28:07 -0800 (PST)
Path: s9ni4400pbb.0!nntp.google.com!news.glorb.com!feeder.erje.net!
eu.feeder.erje.net!eternal-september.org!feeder.eternal-september.org!
mx04.eternal-september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: All Digital Receiver (or nearly all digital)
Date: Wed, 21 Nov 2012 18:27:56 -0500
Organization: A noiseless patient Spider
Lines: 18
Message-ID: <k8jo27$rds$2@dont-email.me>
Mime-Version: 1.0
Injection-Date: Wed, 21 Nov 2012 23:28:07 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-
host="31df9405adb27b160000dbcb83b3bc8e";
     logging-data="28092"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+RtLzeVWYaEJ3/cH0TrcRm"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
Cancel-Lock: sha1:ez5PInxVkWCn7yBP866Y03euLWw=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

Do digital receivers get discussed here much? I am working on a receiver for the WWVB signal at 60 kHz and am looking at a very low power all digital design in an FPGA. Of course some aspects are still analog such as the antenna. I have been reading about loop antennas for low frequency work. I don't plan on having an analog amplifier unless it is needed. I may be able to sample the RF signal directly and use processing to boost the signal out of the noise.

Has anyone done anything like this? Right now I am looking at how to
synchronize the sample rate with the carrier so that I can accumulate
the signal in a coherent manner.

Any pointers on where I could find more info?

Rick

PS I posted this to rec.radio.amateur.equipment by mistake. I don't
that is the right group for home made equipment.

```
From -5449820306488319211
X-Google-Thread: 11480d,3fa5e27169195a59,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,3fa5e27169195a59,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid7221ecd0f7,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.87.73 with SMTP id v9mr5084432paz.46.1353567904115;
        Wed, 21 Nov 2012 23:05:04 -0800 (PST)
MIME-Version: 1.0
Path: s9ni4998pbb.0!nntp.google.com!news.glorb.com!news-out.readnews.com!
transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1352271900@panix.com>
Followup-To: poster
Date: 22 Nov 2012 02:05:03 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 10 Dec 2012 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1353567900@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1353567903 1862 166.84.1.2 (22 Nov 2012 07:05:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 22 Nov 2012 07:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted twice monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/
```

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

```
One significant omission, requiring immediate updates, for this article      |
is that it does not mention newer amateur radio newsgroups created since      |
it was written, including:                                                    |

 rec.radio.amateur.antenna                                                    |
 rec.radio.amateur.boatanchors                                                |
 rec.radio.amateur.dx                                                         |
 rec.radio.amateur.equipment                                                  |
 rec.radio.amateur.homebrew                                                   |
 rec.radio.amateur.moderated                                                  |
 rec.radio.amateur.space                                                      |
```

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

From -7950404843127830406
X-Google-Thread: 241b302a50,17c33c3b2be1bea6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit

```
Received: by 10.66.90.8 with SMTP id bs8mr2167983pab.24.1353789785326;
        Sat, 24 Nov 2012 12:43:05 -0800 (PST)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: All Digital Receiver (or nearly all digital)
References: <k8jo27$rds$2@dont-email.me>
User-Agent: slrn/pre1.0.0-18 (Linux)
Message-ID: <slrnkarqr6.cfo.nomail@xs8.xs4all.nl>
Date: 22 Nov 2012 09:07:50 GMT
Lines: 23
NNTP-Posting-Host: 2001:888:0:1::888
X-Trace: 1353575270 news.xs4all.nl 6918 [2001:888:0:1::888]:60456
X-Complaints-To: abuse@xs4all.nl
Path: s9ni9614pbb.0!nntp.google.com!border1.nntp.dca.giganews.com!
border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
news.mccarragher.com!news.grnet.gr!de-l.enfer-du-nord.net!feeder1.enfer-du-
nord.net!feeds.phibee-telecom.net!newsfeed.xs4all.nl!newsfeed2.news.xs4all.nl!
xs4all!news2.euro.net!newsgate.cistron.nl!newsgate.news.xs4all.nl!
post.news.xs4all.nl!not-for-mail
Bytes: 1918
```

rickman <gnuarm@gmail.com> wrote:

> Do digital receivers get discussed here much? I am working on a
> receiver for the WWVB signal at 60 kHz and am looking at a very low
> power all digital design in an FPGA. Of course some aspects are still
> analog such as the antenna. I have been reading about loop antennas for
> low frequency work. I don't plan on having an analog amplifier unless
> it is needed. I may be able to sample the RF signal directly and use
> processing to boost the signal out of the noise.
>
> Has anyone done anything like this? Right now I am looking at how to
> synchronize the sample rate with the carrier so that I can accumulate
> the signal in a coherent manner.
>
> Any pointers on where I could find more info?

Search for "SDR". Software defined radio. It is hot these days.

You will need the mathematical background to understand and create
designs like this. Of course there are many articles explaining
the digital signal processing, and how to build a program that does
what you want.

At 60 kHz it should be easy. People do this at 30 MHz.

```
From -3096567781781040063
X-Google-Thread: fc2a5,14e7107f35fe7934
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.84.161 with SMTP id a1mr3468paz.47.1353580034398;
```

```
        Thu, 22 Nov 2012 02:27:14 -0800 (PST)
Received: by 10.50.158.227 with SMTP id wx3mr899891igb.2.1353580034123; Thu,
 22 Nov 2012 02:27:14 -0800 (PST)
Path: 6ni3225pbd.1!nntp.google.com!kt20no12905934pbb.1!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Thu, 22 Nov 2012 02:27:13 -0800 (PST)
In-Reply-To: <g3qo98t400pu5t2fg1aq00k92f5qq1pjbn@4ax.com>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=98.234.12.80;
posting-account=AZo7EAoAAAD31aSuorv4pjje-S611hHc
NNTP-Posting-Host: 98.234.12.80
References: <0c69e395-1d12-46b1-b57c-3f766672faf3@googlegroups.com>
<g3qo98t400pu5t2fg1aq00k92f5qq1pjbn@4ax.com>
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <30c1e8d9-229d-483b-8a7b-e7fecc45a667@googlegroups.com>
Subject: Re: Wes Hayward hybrid cascode amplifiers from 2007 QST.
From: Dana <dana.myers@gmail.com>
Injection-Date: Thu, 22 Nov 2012 10:27:14 +0000
Content-Type: text/plain; charset=ISO-8859-1

On Thursday, November 8, 2012 6:37:09 PM UTC-8, Arid ace wrote:

> I wonder why you didn't try to get an oldie like the Plessey SL312. Look it up,
>
> and see that it's perfect for the job - it provides some 30 dB gain without an
>
> input up-transformation and with a larger AGC range.

Is the SL312 still available? Texas Instruments' TL026 is still new from
DigiKey and Mouser, even through-hole parts. Av of > 55 and 50dB of AGC
range.

Cheers,
Dana K6JQ



From 7017530101888128566
X-Google-Thread: 241b302a50,17c33c3b2be1bea6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.72.134 with SMTP id d6mr1988208pav.20.1353789787859;
        Sat, 24 Nov 2012 12:43:07 -0800 (PST)
From: rickman <gnuarm@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: All Digital Receiver (or nearly all digital)
Date: Thu, 22 Nov 2012 11:54:20 -0500
Organization: A noiseless patient Spider
Lines: 26
Message-ID: <k8llc1$m66$2@dont-email.me>
References: <k8jo27$rds$2@dont-email.me>
```

```
Mime-Version: 1.0
Injection-Date: Thu, 22 Nov 2012 16:54:25 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-
host="60c9a2d2fbd2200dad4c80833128b2f3";
     logging-data="22726"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/mBWRuBhwV3Cmw4YheaQW4"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
In-Reply-To: <k8jo27$rds$2@dont-email.me>
Cancel-Lock: sha1:NKbhYCK2loNbB4bvYbnjHpOTpIE=
Path: 6ni9401pbd.1!nntp.google.com!border1.nntp.dca.giganews.com!
border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
news.mccarragher.com!news.grnet.gr!de-l.enfer-du-nord.net!feeder1.enfer-du-
nord.net!eternal-september.org!feeder.eternal-september.org!mx04.eternal-
september.org!.POSTED!not-for-mail
Bytes: 2232
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 11/21/2012 6:27 PM, rickman wrote:
> Do digital receivers get discussed here much? I am working on a receiver
> for the WWVB signal at 60 kHz and am looking at a very low power all
> digital design in an FPGA. Of course some aspects are still analog such
> as the antenna. I have been reading about loop antennas for low
> frequency work. I don't plan on having an analog amplifier unless it is
> needed. I may be able to sample the RF signal directly and use
> processing to boost the signal out of the noise.
>
> Has anyone done anything like this? Right now I am looking at how to
> synchronize the sample rate with the carrier so that I can accumulate
> the signal in a coherent manner.
>
> Any pointers on where I could find more info?
>
> Rick
>
> PS I posted this to rec.radio.amateur.equipment by mistake. I don't that
> is the right group for home made equipment.


It looks like I got a reply to this post, but something goofed up in my
reader or the server and instead of Rob's message I see the twice
monthly announcement.

Rick


From 4665685630341157508
X-Google-Thread: 241b302a50,17c33c3b2be1bea6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.223.72 with SMTP id qs8mr2318002pbc.8.1353789786999;
```

```
        Sat, 24 Nov 2012 12:43:06 -0800 (PST)
From: rickman <gnuarm@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: All Digital Receiver (or nearly all digital)
Date: Thu, 22 Nov 2012 12:25:46 -0500
Organization: A noiseless patient Spider
Lines: 36
Message-ID: <k8ln77$4lm$1@dont-email.me>
References: <k8jo27$rds$2@dont-email.me> <slrnkarqr6.cfo.nomail@xs8.xs4all.nl>
Mime-Version: 1.0
Injection-Date: Thu, 22 Nov 2012 17:26:00 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-
host="60c9a2d2fbd2200dad4c80833128b2f3";
     logging-data="4790"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+xdMUZAIdrBOgjFHNqEU3X"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
In-Reply-To: <slrnkarqr6.cfo.nomail@xs8.xs4all.nl>
Cancel-Lock: sha1:4FmmuBqL5cHJ/Qz+8TERk79yKFE=
Path: s9ni9614pbb.0!nntp.google.com!border1.nntp.dca.giganews.com!
border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
news.mccarragher.com!news.grnet.gr!de-l.enfer-du-nord.net!feeder1.enfer-du-
nord.net!eternal-september.org!feeder.eternal-september.org!mx04.eternal-
september.org!.POSTED!not-for-mail
Bytes: 2850
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 11/22/2012 4:07 AM, Rob wrote:
> rickman<gnuarm@gmail.com>  wrote:
>> Do digital receivers get discussed here much?  I am working on a
>> receiver for the WWVB signal at 60 kHz and am looking at a very low
>> power all digital design in an FPGA.  Of course some aspects are still
>> analog such as the antenna.  I have been reading about loop antennas for
>> low frequency work.  I don't plan on having an analog amplifier unless
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>> processing to boost the signal out of the noise.
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>> Has anyone done anything like this?  Right now I am looking at how to
>> synchronize the sample rate with the carrier so that I can accumulate
>> the signal in a coherent manner.
>>
>> Any pointers on where I could find more info?
>
> Search for "SDR".  Software defined radio.  It is hot these days.
>
> You will need the mathematical background to understand and create
> designs like this.  Of course there are many articles explaining
> the digital signal processing, and how to build a program that does
> what you want.
>
> At 60 kHz it should be easy.  People do this at 30 MHz.
```

There it is! I had to restart my newsreader to see this message.

Yes, the term SDR is very broad. I was thinking there might be some
folks here doing work in this area.

Yes, the math is rather intense. While the math is always essential,
there are often times when a good seat of the pants feel for the job is
important too. DSP is just the digital version of analog signal
processing. It is the "signal processing" part that is important.

Rick

From 3287271039004697809
X-Google-Thread: fc2a5,17c33c3b2be1bea6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.73.7 with SMTP id h7mr235341pav.6.1353607664246;
        Thu, 22 Nov 2012 10:07:44 -0800 (PST)
MIME-Version: 1.0
Path: 6ni5675pbd.1!nntp.google.com!news.glorb.com!us.feeder.erje.net!
feeder.erje.net!eu.feeder.erje.net!xlned.com!feeder7.xlned.com!news2.euro.net!
newsgate.cistron.nl!newsgate.news.xs4all.nl!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: All Digital Receiver (or nearly all digital)
References: <k8jo27$rds$2@dont-email.me>
 <slrnkarqr6.cfo.nomail@xs8.xs4all.nl> <k8ln77$4lm$1@dont-email.me>
User-Agent: slrn/pre1.0.0-18 (Linux)
Message-ID: <slrnkasqff.aok.nomail@xs8.xs4all.nl>
Date: 22 Nov 2012 18:07:43 GMT
Lines: 55
NNTP-Posting-Host: 2001:888:0:1::888
X-Trace: 1353607663 news.xs4all.nl 6843 [2001:888:0:1::888]:37297
X-Complaints-To: abuse@xs4all.nl

rickman <gnuarm@gmail.com> wrote:
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>>> processing to boost the signal out of the noise.
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>>> synchronize the sample rate with the carrier so that I can accumulate
>>> the signal in a coherent manner.
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>>> Any pointers on where I could find more info?

>>
>> Search for "SDR". Software defined radio. It is hot these days.
>>
>> You will need the mathematical background to understand and create
>> designs like this. Of course there are many articles explaining
>> the digital signal processing, and how to build a program that does
>> what you want.
>>
>> At 60 kHz it should be easy. People do this at 30 MHz.
>
> There it is! I had to restart my newsreader to see this message.
>
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> folks here doing work in this area.
>
> Yes, the math is rather intense. While the math is always essential,
> there are often times when a good seat of the pants feel for the job is
> important too. DSP is just the digital version of analog signal
> processing. It is the "signal processing" part that is important.

True. I thought I should just mention that because many people are able to construct such a receiver using analog techniques and discrete parts, using standard "building blocks" they are familiar with like an LC bandfilter, an amplifier, an AM detector etc, but would find themselves in unknown charters when they would have to write down the mathematical equivalent of what they constructed in hardware.
When you can do that, and are familiar with the usual conversions between time domain and frequency domain, it should be possible to write the code (and/or construct it from existing modules).

I have been able to write some DSP code that way, even on a dedicated DSP in asm (which has the extra complication that you need to learn the instruction set, that looks quite different from a normal CPU), and it was fun.

However, before that DSP experiment I sometimes wrote code that looked for zerocrossings and timed the duration between them, and tries to decode data from that, and that is the wrong approach when you want good performance.

From -2616152144181219854
X-Google-Thread: 241b302a50,17c33c3b2be1bea6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.86.6 with SMTP id l6mr2171179paz.11.1353789789137;
        Sat, 24 Nov 2012 12:43:09 -0800 (PST)
From: rickman <gnuarm@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: All Digital Receiver (or nearly all digital)
Date: Thu, 22 Nov 2012 13:23:22 -0500
Organization: A noiseless patient Spider

Lines: 25
Message-ID: <k8lqj2$olu$1@dont-email.me>
References: <k8jo27$rds$2@dont-email.me> <slrnkarqr6.cfo.nomail@xs8.xs4all.nl>
<k8ln77$4lm$1@dont-email.me> <slrnkasqff.aok.nomail@xs8.xs4all.nl>
Mime-Version: 1.0
Injection-Date: Thu, 22 Nov 2012 18:23:31 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="60c9a2d2fbd2200dad4c80833128b2f3";
logging-data="25278"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX19trp1pgWvwkX5uow5aretb"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/12.0.1
In-Reply-To: <slrnkasqff.aok.nomail@xs8.xs4all.nl>
Cancel-Lock: sha1:juEBsMX1PBRFLTUCfq3dOpKX368=
Path: 6ni9406pbd.1!nntp.google.com!border1.nntp.dca.giganews.com!
border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
news.mccarragher.com!news.grnet.gr!newsfeed.CARNet.hr!feeder.erje.net!
eu.feeder.erje.net!eternal-september.org!feeder.eternal-september.org!
mx04.eternal-september.org!.POSTED!not-for-mail
Bytes: 2455
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

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> I have been able to write some DSP code that way, even on a dedicated
> DSP in asm (which has the extra complication that you need to learn the
> instruction set, that looks quite different from a normal CPU), and
> it was fun.

DSP doesn't have to be code. In this case it will be hardware in an FPGA. So the calculations will all be done in dedicated hardware. I don't plan on doing multiplies, but that might happen. These chips don't have dedicated multiplier. I've done multiplier designs with the shift and add algorithm, not so hard.

> However, before that DSP experiment I sometimes wrote code that looked
> for zerocrossings and timed the duration between them, and tries to
> decode data from that, and that is the wrong approach when you want
> good performance.

Actually I did a commercial design that way for demodulating a time code signal. It only needed to measure amplitude to get the data, but had to sync to the carrier for "precise" timing. Looking for the zero crossings was a very effective method with an 8 kHz sample rate on a 1 kHz carrier that had a very high SNR.

Rick

From -3556915663127889144
X-Google-Thread: fc2a5,17c33c3b2be1bea6
X-Google-NewGroupId: yes

```
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.180.93.6 with SMTP id cq6mr589302wib.2.1353611940420;
        Thu, 22 Nov 2012 11:19:00 -0800 (PST)
Path: ha8ni18235wib.1!nntp.google.com!feeder1.cambriumusenet.nl!
feeder2.cambriumusenet.nl!feed.tweaknews.nl!209.197.12.246.MISMATCH!
nx02.iad01.newshosting.com!newshosting.com!216.196.98.146.MISMATCH!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-
mail
NNTP-Posting-Date: Thu, 22 Nov 2012 13:18:59 -0600
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <k8jo27$rds$2@dont-email.me>
In-Reply-To: <k8jo27$rds$2@dont-email.me>
Subject: Re: All Digital Receiver (or nearly all digital)
Date: Thu, 22 Nov 2012 11:18:56 -0800
MIME-Version: 1.0
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18463
Message-ID: <WYudnRMyfJA-5zPNnZ2dnUVZ5j2dnZ2d@giganews.com>
Lines: 37
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-2eYEbfnoBMKUoAivw/
fMveXkKrWNX72oZFW01VKVe94VfnFRKKzoVIrxgnXBES4h8ZPTxCDFmE1rGhF!
715ofEPwbrXmqbjT5V5T/3DxDLc0KwIWN+AHIdzj1lDkotnYJehdTdV8zVgx2Hqj2+IFUe9xFw==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 2945
X-Original-Bytes: 2884
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
```

"rickman" <gnuarm@gmail.com> wrote in message
news:k8jo27$rds$2@dont-email.me...

> Do digital receivers get discussed here much? I am working on a receiver
> for the WWVB signal at 60 kHz and am looking at a very low power all
> digital design in an FPGA. Of course some aspects are still analog such
> as the antenna. I have been reading about loop antennas for low frequency
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> synchronize the sample rate with the carrier so that I can accumulate the
> signal in a coherent manner.
>
> Any pointers on where I could find more info?
>
> Rick
>
> PS I posted this to rec.radio.amateur.equipment by mistake. I don't that
> is the right group for home made equipment.

Yikes! Here you over here too!
     Loop antennas sure have more "capture area" than ferrite loopsticks,
using "seat of the pants" engineering, I always wondered just how the
marked directivity of the loop antenna could be put to use in a "dual
Diversity"
scheme for noise cancelling. It was used (and perhaps still is) for
"selective
fading" and interference rejection on large, HF antenna farms.
     Marine and aircraft beacon band receivers used both rotatable loops
and loopsticks in conjunction with a "sense" antenna for enhanced
directional reception.
     I'm over my head, so I'm bailing. Please keep us informed of progress!

Old Chief Lynn

From 2192637719648333786
X-Google-Thread: fc2a5,99416deaba91645,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.197.201 with SMTP id iw9mr537757pbc.6.1353615123742;
        Thu, 22 Nov 2012 12:12:03 -0800 (PST)
MIME-Version: 1.0
Path: 6ni5823pbd.1!nntp.google.com!news.glorb.com!news.astraweb.com!
border6.newsrouter.astraweb.com!not-for-mail
From: "vk3ye" <nospam@nospam.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: 7 MHz DSB QRP transceiver: circuit walkthrough
Date: Fri, 23 Nov 2012 07:12:00 +1100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
Lines: 17
Message-ID: <50ae8712$0$21691$c3e8da3$76491128@news.astraweb.com>
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: c0c58a02.news.astraweb.com
X-Trace: DXC=]89Wm30<T4gdoV@f]470JnL?
0kYOcDh@j\LfROTNE>L`JoZ66_70GPfl9B_G1R=S=gYoIj:2_Q5XlDe0DncF3l5hTlo`HZUDEfa

A 4 part series describes a 6 transistor/1 IC double sideband transceiver for 40m. Uses many common components.   The 'Beach 40' starts of as 8 transistors and then gets some mods along the way.

http://www.youtube.com/watch?v=siSgeljr4HE

http://www.youtube.com/watch?v=U-HwpizjvFs

http://www.youtube.com/watch?v=c-Zte_J7O1M

http://www.youtube.com/watch?v=mLCbnL5e_VA

73, Peter VK3YE

```
From 6766522846879742084
X-Google-Thread: fc2a5,17c33c3b2be1bea6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.84.38 with SMTP id v6mr1509426pay.32.1353713030043;
        Fri, 23 Nov 2012 15:23:50 -0800 (PST)
Path: 6ni7800pbd.1!nntp.google.com!news.glorb.com!us.feeder.erje.net!
feeder.erje.net!eu.feeder.erje.net!eternal-september.org!feeder.eternal-
september.org!mx04.eternal-september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: All Digital Receiver (or nearly all digital)
Date: Fri, 23 Nov 2012 18:23:37 -0500
Organization: A noiseless patient Spider
Lines: 38
Message-ID: <k8p0i5$7ec$1@dont-email.me>
References: <k8jo27$rds$2@dont-email.me>
<WYudnRMyfJA-5zPNnZ2dnUVZ5j2dnZ2d@giganews.com>
Mime-Version: 1.0
Injection-Date: Fri, 23 Nov 2012 23:23:49 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-
host="d1cf2c7c7eb0d8f0b20915a3759bcbc3";
     logging-data="7628"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+Cm2VPnjYmyVB2OW9kg3bJ"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
In-Reply-To: <WYudnRMyfJA-5zPNnZ2dnUVZ5j2dnZ2d@giganews.com>
Cancel-Lock: sha1:FXoyvSxn9uh7RncT35OyzwviAmU=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 11/22/2012 2:18 PM, coffelt2 wrote:

>
> Yikes! Here you over here too!

Yeah, I think this is where I should be. The other group sounds like it
is more about bought equipment than homemade.

> Loop antennas sure have more "capture area" than ferrite loopsticks,
> using "seat of the pants" engineering, I always wondered just how the
> marked directivity of the loop antenna could be put to use in a "dual
> Diversity"
> scheme for noise cancelling. It was used (and perhaps still is) for
> "selective
> fading" and interference rejection on large, HF antenna farms.
> Marine and aircraft beacon band receivers used both rotatable loops
> and loopsticks in conjunction with a "sense" antenna for enhanced
> directional reception.
> I'm over my head, so I'm bailing. Please keep us informed of progress!
>
> Old Chief Lynn

It seems to be the null that is highly directional. I expect when they
used loops for DF they turned the antenna until the signal faded and
used the null as the directional part.

I ordered some RG-6 with a solid copper center conductor. The shield is
aluminum so I'm hoping that doesn't hurt. A number of sources talk
about the importance of keeping the conductor resistance low to maximize
the Q of the tuning. I need to do my calculations and select the loop
size and number of turns. I don't think I want to make it very large,
so I'm hoping more turns will compensate for a modest size.

I'll let you know. This group is a little quiet, but that's better than
all the noise in some other groups. As I'm sure you know, what is
important is not the signal level, but the SNR!

Rick

From -5723005077715099903
X-Google-Thread: fc2a5,4785e84d00f651ba,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.251.136 with SMTP id zk8mr2429215pbc.1.1353807762746;
Sat, 24 Nov 2012 17:42:42 -0800 (PST)
MIME-Version: 1.0
Received: by 10.50.154.132 with SMTP id vo4mr3629657igb.7.1353807762708; Sat,
24 Nov 2012 17:42:42 -0800 (PST)
Path: 6ni6210pbd.1!nntp.google.com!kt20no5764815pbb.1!postnews.google.com!
q5g2000pbk.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Sat, 24 Nov 2012 17:42:42 -0800 (PST)

```
Complaints-To: groups-abuse@google.com
Injection-Info: q5g2000pbk.googlegroups.com; posting-host=117.199.242.153;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
NNTP-Posting-Host: 117.199.242.153
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:10.0.2) Gecko/20100101 Firefox/
10.0.2,gzip(gfe)
Message-ID: <2da32f8e-1967-4cb8-8e23-890c3990ca6a@q5g2000pbk.googlegroups.com>
Subject: HOT HOT HOT VIDEOS AND COLLEGE GIRLS SEXY PHOTOS
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Injection-Date: Sun, 25 Nov 2012 01:42:42 +0000
Content-Type: text/plain; charset=ISO-8859-1

     VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.in/2011/06/real-kiss-hot-videos.html

  HOT HOT LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/hot-for-youth.html
SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-101.html
YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.in/2010/06/supr-hot-never-seen.html
SUPER HOT NEVER SEEN
http://hotvideosfreesee.blogspot.in/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/kajal-best-lip-kiss.html

for mopre hot videos
http://allvideosforyouth.blogspot.in/2010/08/super-hot-lip-kiss.html

     jobs
http://alljobsaywhere.blogspot.in/

              mobile

mobile games free download
http://mobileallinforation.blogspot.in



 interview question
java interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/java-interview-questions-
and-answers.html
oracle interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/oracle-interview-
questions-and-answers.html
hardware interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/hardware-interview-
questions-and-answers.html
networking interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/networking-interview-
```

```
questions-and.html
dotnet interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/dotnet-interview-questions-and-answers.html
c interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/c-interview-questions-and-answers.html
datawarehousing interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/datawarehousing-interview-questions-and.html
sap interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/sap-interview-questions-and-answers.html

          all jobs
java jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/java-jobs.html
oracle jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/oracle-jobs.html
sap jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/sap-jobs.html
hardware jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/hardware-jobs.html
networking jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/networking-jobs.html
datawarehousing jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/datawarehousing-jobs.html
GOOGLE ADSENSE
http://alljobsandinterviwquestions.blogspot.com/2012/08/google-adsense.html
```

```
From 7973968155206366028
X-Google-Thread: fc2a5,7fb686291678318e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.75.164 with SMTP id d4mr2097062paw.10.1353823024887;
        Sat, 24 Nov 2012 21:57:04 -0800 (PST)
MIME-Version: 1.0
Path: 6ni10010pbd.1!nntp.google.com!news.glorb.com!feeder.erje.net!eu.feeder.erje.net!eternal-september.org!feeder.eternal-september.org!mx04.eternal-september.org!.POSTED!not-for-mail
From: "grumpy" <t.seput@verizon.net>
Newsgroups: rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Transformer Oil Suppliers
Date: Sun, 25 Nov 2012 21:56:00 -0500
Organization: A noiseless patient Spider
Lines: 18
Message-ID: <k8sbvg$sfe$1@dont-email.me>
```

```
References: <k7pr23$77i$1@reader1.panix.com>
Injection-Date: Sun, 25 Nov 2012 05:57:04 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-
host="9c9e20aad97dc2f00b666c58821752de";
     logging-data="29166"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19lUv3G3iu7F5s27WyKcyjUfD1T/go8BBc="
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:3HdHj1eK+BsPyEPoVqN6He9BIeI=
X-Priority: 3
X-MSMail-Priority: Normal

Look up Refrigeration oils viscosity varies largely 100 to 700
and if you really want good oil lookup Diffusion pump oils
diffusion oil is high temp. and high vacuum oil.

"David Lesher" <wb8foz@panix.com> wrote in message
news:k7pr23$77i$1@reader1.panix.com...
>
> We need less than a gallon of transformer oil for coolant.
> Does anyone sell such small quantities?
>
>
> --
> A host is a host from coast to coast................wb8foz@nrk.com
> & no one will talk to a host that's close........[v].(301) 56-LINUX
> Unless the host (that isn't close).........................pob 1433
> is busy, hung or dead....................................20915-1433
```

```
From -8712850046985394125
X-Google-Thread: fc2a5,1dbf85705753fb20,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.84.7 with SMTP id u7mr3394359pay.26.1353953413215;
        Mon, 26 Nov 2012 10:10:13 -0800 (PST)
Path: 6ni11450pbd.1!nntp.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
goblin1!goblin.stu.neva.ru!eternal-september.org!feeder.eternal-september.org!
mx04.eternal-september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: LF Antenna Design
Date: Mon, 26 Nov 2012 13:10:10 -0500
Organization: A noiseless patient Spider
Lines: 26
Message-ID: <k90ba4$o85$2@dont-email.me>
References: <k74cus$p45$1@dont-email.me>
```

```
Mime-Version: 1.0
Injection-Date: Mon, 26 Nov 2012 18:10:12 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-
host="36c17c0f9485b8c74d6675efd2f5f893";
     logging-data="24837"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+8pEWCQ4AobvropvJUlWmq"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
In-Reply-To: <k74cus$p45$1@dont-email.me>
Cancel-Lock: sha1:LXV6OiIjyRNgh9IrER6fKRifAtw=
Bytes: 2510
X-Received-Bytes: 2558
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

I've been doing more work on the low frequency tuned loop antenna and have two problems. One is that I can't find any info on how effective the antenna will be in relation to the design parameters. That would be the diameter of the loop, the number of turns and the spacing of the turns. From the formulas I find for inductance, I would guess that the spacing of the turns will want to be as small as possible, but I'm not sure the factors that optimize self inductance are the same as what will optimize antenna effectiveness.

What equations determine the signal strength from a low frequency tuned loop antenna?

The other problem is finding an accurate formula for the inductance of this design. I've found a number of equations for coil inductance, but most are for coils with length longer than diameter. One I found doesn't say what it's limitations are and doesn't agree with the others. In fact, I can't find two formulas that approximate each other over the range of interest which is 1 to 20 turns or d/l from 4 on up.

I've consulted the Radiotron Designer's Guide, Nagaoka's and Lundin's papers on inductance of coils as well as a number of web pages. I'm getting tired of looking... Is there a reasonable formula for calculating the inductance of a short coil that works for a number of turns from 1 to 20?

Rick

```
From -2694508173617413121
X-Google-Thread: fc2a5,1dbf85705753fb20
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.111.140 with SMTP id s12mr8593611qap.5.1353955969049;
        Mon, 26 Nov 2012 10:52:49 -0800 (PST)
Received: by 10.50.37.242 with SMTP id b18mr5937743igk.6.1353955968822; Mon,
 26 Nov 2012 10:52:48 -0800 (PST)
Path: gf5ni22690075qab.0!nntp.google.com!i9no10731436qap.0!postnews.google.com!
```

```
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Mon, 26 Nov 2012 10:52:47 -0800 (PST)
In-Reply-To: <k90ba4$o85$2@dont-email.me>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=76.113.209.246;
 posting-account=Yd1DvwoAAAB-u_2AgV5y3GwDwJu5Sco2
NNTP-Posting-Host: 76.113.209.246
References: <k74cus$p45$1@dont-email.me> <k90ba4$o85$2@dont-email.me>
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <da8bf591-3fbd-4f38-97fb-01a78313048e@googlegroups.com>
Subject: Re: LF Antenna Design
From: B <linuxenigma@gmail.com>
Injection-Date: Mon, 26 Nov 2012 18:52:49 +0000
Content-Type: text/plain; charset=ISO-8859-1




 The National Radio Club has many publications on loop antennas, and those can
answer your questions and more.




On Monday, November 26, 2012 12:10:13 PM UTC-6, rickman wrote:
> I've been doing more work on the low frequency tuned loop antenna and
>
> have two problems.  One is that I can't find any info on how effective
>
> the antenna will be in relation to the design parameters.  That would be
>
> the diameter of the loop, the number of turns and the spacing of the
>
> turns.  From the formulas I find for inductance, I would guess that the
>
> spacing of the turns will want to be as small as possible, but I'm not
>
> sure the factors that optimize self inductance are the same as what will
>
> optimize antenna effectiveness.
>
>
>
> What equations determine the signal strength from a low frequency tuned
>
> loop antenna?
>
>
>
> The other problem is finding an accurate formula for the inductance of
>
> this design.  I've found a number of equations for coil inductance, but
```

>
> most are for coils with length longer than diameter. One I found
>
> doesn't say what it's limitations are and doesn't agree with the others.
>
>   In fact, I can't find two formulas that approximate each other over
>
> the range of interest which is 1 to 20 turns or d/l from 4 on up.
>
>
>
> I've consulted the Radiotron Designer's Guide, Nagaoka's and Lundin's
>

> papers on inductance of coils as well as a number of web pages. I'm
>
> getting tired of looking... Is there a reasonable formula for
>
> calculating the inductance of a short coil that works for a number of
>
> turns from 1 to 20?
>
>
>
> Rick

```
From -599427344311020346
X-Google-Thread: 241b302a50,1dbf85705753fb20
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.73.169 with SMTP id m9mr157621pav.35.1354090536891;
        Wed, 28 Nov 2012 00:15:36 -0800 (PST)
Path: 6ni15651pbd.1!nntp.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news.snarked.org!weretis.net!feeder4.news.weretis.net!eternal-
september.org!feeder.eternal-september.org!mx04.eternal-september.org!.POSTED!not-
for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: LF Antenna Design
Date: Mon, 26 Nov 2012 16:25:37 -0500
Organization: A noiseless patient Spider
Lines: 32
Message-ID: <k90moo$s9v$2@dont-email.me>
References: <k74cus$p45$1@dont-email.me> <k90ba4$o85$2@dont-email.me>
Mime-Version: 1.0
Injection-Date: Mon, 26 Nov 2012 21:25:45 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-
host="36c17c0f9485b8c74d6675efd2f5f893";
     logging-data="28991"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19+9J80u4rp6jQPtKLdUhZM"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
In-Reply-To: <k90ba4$o85$2@dont-email.me>
Cancel-Lock: sha1:GNhUaaAXeQjhVId8wL/GRKKIvxg=
Bytes: 2482
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

Just to give an update...

I got a response from Randy Yates in the comp.dsp group who gave me a formula for the loop antenna signal strength which I'm including below for reference. He said it came from the ARRL Handbook.

```
 > They dedicate an entire chapter (5) to loop antennas. Equation one
 > is the voltage at the loop terminals:
 >
 >   V = (2 * pi * A * N * E * cos(theta)) / lambda,
 >
 > where
 >
 >   A = area of loop, in m^2
 >   N = number of turns in loop
 >   E = RF field strength in V/m
 >   theta = angle between plane of the loop and the signal source
 >   lambda = wavelength in meters.
 >
 > Note that I know nothing about antennas - just acting as a scribe...
```

This is the expression for an untuned antenna. Shortly after this, they provide the equation for a tuned antenna, which is identical except for the addition of a Q in the numerator.
-- Randy Yates Digital Signal Labs http://www.digitalsignallabs.com

I did the calculations and at 100 uV/m with 50 foot of coax in a two turn loop I get a bit over 1 uV, not so good. I'm going to see what I can find about the signal level from ferrite cores. I had the impression they would be lower, but I seem to recall better numbers than this in the ones I've seen before.

Rick

```
From -3128229724231895O2
X-Google-Thread: fc2a5,1dbf85705753fb20
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.85.102 with SMTP id g6mr4189991paz.5.1354075364908;
        Tue, 27 Nov 2012 20:02:44 -0800 (PST)
Path: s9ni15231pbb.0!nntp.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
```

```
nntp-15.dc1.easynews.com.POSTED!not-for-mail
From: Arid ace <nonsmoker@freedom.smokes.oil>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LF Antenna Design
Message-ID: <td2bb8tr85ng2ac2uq4si69vupdp23rrmo@4ax.com>
References: <k74cus$p45$1@dont-email.me> <k90ba4$o85$2@dont-email.me>
<k90moo$s9v$2@dont-email.me>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Lines: 23
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Tue, 27 Nov 2012 23:01:54 -0500
X-Received-Bytes: 1809
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Mon, 26 Nov 2012 16:25:37 -0500, rickman <gnuarm@gmail.com> wrote:

>Just to give an update...
>
[...]
>
>I did the calculations and at 100 uV/m with 50 foot of coax in a two
>turn loop I get a bit over 1 uV, not so good.  I'm going to see what I
>can find about the signal level from ferrite cores.  I had the
>impression they would be lower, but I seem to recall better numbers than
>this in the ones I've seen before.
>
>Rick

When I was working with loop antennas, it became rather obvious that
optimal receiving loops too are 1 turn, with material of the largest practical
circumference. That one turn loop was coupled to one turn as the primary of a
coil / tuned transformer and on VLF / LF that concerned a potcore of the proper
material. The amount of turns for the secondary could be as much as 100  and
with a Q factor of 100 or more that meant at least 10,000 times the voltage of
the one turn loop - more than enough.

Jan



From -3706110708605370523
X-Google-Thread: 241b302a50,1dbf85705753fb20
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.112.49.136 with SMTP id u8mr182750lbn.19.1354676647958;
        Tue, 04 Dec 2012 19:04:07 -0800 (PST)
Path: i11ni21357wiw.0!nntp.google.com!feeder1.cambriumusenet.nl!
feeder3.cambriumusenet.nl!feed.tweaknews.nl!193.141.40.65.MISMATCH!npeer.de.kpn-
```

```
eurorings.net!npeer-ng0.de.kpn-eurorings.net!border2.nntp.ams2.giganews.com!
border1.nntp.ams2.giganews.com!border3.nntp.ams.giganews.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!rt.uk.eu.org!de-l.enfer-du-
nord.net!feeder1.enfer-du-nord.net!eternal-september.org!feeder.eternal-
september.org!mx04.eternal-september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LF Antenna Design
Date: Thu, 29 Nov 2012 14:43:33 -0500
Organization: A noiseless patient Spider
Lines: 57
Message-ID: <k98du3$kvq$1@dont-email.me>
References: <k74cus$p45$1@dont-email.me> <k90ba4$o85$2@dont-email.me>
<k90moo$s9v$2@dont-email.me> <td2bb8tr85ng2ac2uq4si69vupdp23rrmo@4ax.com>
Mime-Version: 1.0
Injection-Date: Thu, 29 Nov 2012 19:44:03 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-
host="0628ddd77d8fa919af0c3e6d4e8555c4";
     logging-data="21498"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19Yamfm7kSD+YqoKG26RejG"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
In-Reply-To: <td2bb8tr85ng2ac2uq4si69vupdp23rrmo@4ax.com>
Cancel-Lock: sha1:xlw+t9gNEtsXiwbmvyOffXTczzY=
Bytes: 4173
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 11/27/2012 11:01 PM, Arid ace wrote:
> On Mon, 26 Nov 2012 16:25:37 -0500, rickman<gnuarm@gmail.com>  wrote:
>
>> Just to give an update...
>>
> [...]
>>
>> I did the calculations and at 100 uV/m with 50 foot of coax in a two
>> turn loop I get a bit over 1 uV, not so good.  I'm going to see what I
>> can find about the signal level from ferrite cores.  I had the
>> impression they would be lower, but I seem to recall better numbers than
>> this in the ones I've seen before.
>>
>> Rick
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> When I was working with loop antennas, it became rather obvious that
> optimal receiving loops too are 1 turn, with material of the largest practical
> circumference. That one turn loop was coupled to one turn as the primary of a
> coil / tuned transformer and on VLF / LF that concerned a potcore of the proper
> material. The amount of turns for the secondary could be as much as 100  and
> with a Q factor of 100 or more that meant at least 10,000 times the voltage of
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I have come to a similar conclusion, but not about using a single loop. The single loop is the best antenna if your constraint is the total length of cable. But if your limitation is the size of the loop, it will be improved by more turns at the same diameter.

When I wrote the message you replied to I had left the Q factor out of the equation. I calculated the Q factor at slightly over 100 considering just the resistance of the center conductor. I am also aware of the idea of coupling using a ferrite core. I don't know anything about ferrite cores (I suppose I'll need to learn that soon) and I don't know what the optimal turns ratio would be. I assume that the resistance of the load reflects back into the antenna as a parallel resistance? Using your numbers that would mean a 1 Mohm input impedance would result in a 10 kohm load. At the frequency of 60 kHz and with an antenna inductance of about 90 uH that gives a reactance of 34 ohms. So 10 kohms shouldn't be a problem. But I read one reference that indicated the Q needs to be factored in as well which means it would be 100 ohms vs. 33 ohms, and so 1 Mohm might not be high enough.

The input impedance of the device I am using is not characterized. I'll have to measure it, but I expect it will be rather high, easily 10 Mohm which should be good enough (30x).

I'm also not sure if there will be a loss of Q due to capacitance of the cable. I haven't found a clear reference on this. Some say inter-winding capacitance will reduce the Q, but I don't think this will be subject to inter-winding capacitance because of the shield. So the question is will the distributed capacitance to ground create any sort of problem? This cable has 16.2 pF per foot and I plan to use 50 feet. I expect this will simply appear as part of the resonating capacitance.

Rick

From -7022630184558941016
X-Google-Thread: fc2a5,1dbf85705753fb20
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.86.102 with SMTP id o6mr5387254paz.41.1354245713561;
        Thu, 29 Nov 2012 19:21:53 -0800 (PST)
Path: s9ni19268pbb.0!nntp.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-11.dc1.easynews.com.POSTED!not-for-mail
From: Arid ace <nonsmoker@freedom.smokes.oil>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LF Antenna Design
Message-ID: <ri6gb89uauhdgano8f97otj5f4mjm70p9i@4ax.com>
References: <k74cus$p45$1@dont-email.me> <k90ba4$o85$2@dont-email.me>
<k90moo$s9v$2@dont-email.me> <td2bb8tr85ng2ac2uq4si69vupdp23rrmo@4ax.com>
<k98du3$kvq$1@dont-email.me>
X-Newsreader: Forte Agent 6.00/32.1186

MIME-Version: 1.0
Lines: 88
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Thu, 29 Nov 2012 22:21:15 -0500
X-Received-Bytes: 5656
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

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Jan

From 7304369701662470170
X-Google-Thread: 241b302a50,1dbf85705753fb20
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit

Received: by 10.180.99.163 with SMTP id er3mr85930wib.2.1354676965234;
        Tue, 04 Dec 2012 19:09:25 -0800 (PST)
Path: i11ni21355wiw.0!nntp.google.com!feeder2.cambriumusenet.nl!feed.tweaknews.nl!
85.12.40.130.MISMATCH!xlned.com!feeder1.xlned.com!npeer.de.kpn-eurorings.net!
npeer-ng0.de.kpn-eurorings.net!border2.nntp.ams2.giganews.com!
border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!
border3.nntp.ams.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!
rt.uk.eu.org!news.stack.nl!cs.uu.nl!news0.firedrake.org!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LF Antenna Design
Date: Fri, 30 Nov 2012 16:00:38 -0500
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 86
Sender: et472@bas1-montreal43-2925258017.dsl.bell.ca
Message-ID: <alpine.LNX.2.02.1211301540250.23647@darkstar.example.org>
References: <k74cus$p45$1@dont-email.me> <k90ba4$o85$2@dont-email.me>
<k90moo$s9v$2@dont-email.me> <td2bb8tr85ng2ac2uq4si69vupdp23rrmo@4ax.com>
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Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1354309049 29577 174.91.229.33 (30 Nov 2012 20:57:29 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 30 Nov 2012 20:57:29 GMT
In-Reply-To: <ri6gb89uauhdgano8f97otj5f4mjm70p9i@4ax.com>
User-Agent: Alpine 2.02 (LNX 1266 2009-07-14)
Bytes: 5819
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

On Thu, 29 Nov 2012, Arid ace wrote:

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>

Some of the issue may be habit. Over the decades, various WWVB receivers were described, and I remember them all as using some sort of larger loop. It may have nothing to do with design so much as habit, once an idea is planted, others continue it.

In the early days of "amateur radio", everything was so low in frequency, big loops and 60KHz probably weren't that foreign. So the collective memory may retain that, a long time after hams were relegated to those "uselss" shortwave frequencies.

The fact that all those WWVB clocks have relatively small loops is an indicator that not much is needed. I don't know how complicated the receivers have become, if at all. I can get WWVB here in Montreal on my Casio Waveceptor watch, and whatever that uses has to be way smaller than the loops in the small WWVB clocks.

The better the loop, of course, the more selectivity it provides. I don't have any of those WWVB receiver articles handy, but again I remember them as being relatively simple amplifiers, fairly depending on the loop for selectivity. The larger the loop, the more directional it can be, which presumably helps with all the local junk generated that can cause issues.

The analog part (or what most people were interested in until recent times), wsa the antenna and selectivity and a good amplifier. Simple and complicated at the same time. And it's a spectrum area often "unkonwn", not many receivers to tune down there, so one wonders if the signal is there, or it's the equipment, until the equipment becomes right enough for the signal to appear. if I'm building a WWV receiver, it's easy to check for the signal since I have a few receivers that cover the frequency range.

It's not a new field. There was one guy, I can't remember his name, who wrote a number of articles in QST about WWVB and WWVL reception, and high stability frequency standards, I can picture on in the summer of 1971.

Don Lancaster did an article about WWVB, more an introduction, and he has it on his webpage at www.tinaja.com, titled something like "Experiments in WWVB Reception".

Ken Cornell spent a lot of time writing about low frequency work, he had a "cookbook" out at one point, initially self-published but a later edition published by Ham Radio Magazine. But he died, and access to the book other than used died with him.

Ralph Burhan, who was a ham, wrote a lot about low frequencies. Using Loran as a frequency standard (or was it time?), all kinds of articles in various hobby magazines about low frequency antennas (sometimes loops, but often short whips, directly coupled to a very high impedance buffer). I'm not sure any of that is online, but it might be worth a search.

There have been quite a few WWVB receiver articles in the ham magazines, though I have no dates. I think one wsa in September 1971 "73". The ones I saw all predate WWVB's more recent visibility as a feed to all those "atomic clocks". Most were interested in the station as a frequency standard, though as early as that seventies Don Lancaster article, people were thinking about decoders to get the time.

I think there are groups and pages devoted to this sort of thing, but I don't follow it so anyone's search is as good as mine would be.

The interest may be picking up, talk of a low frequency ham band (or is it already in place? I forget). And of coruse, there is the 160-190KHz "license free band" that some have put a lot of effort into, "lowfers", searching for that sort of thing might turn up useful information, albeit needind scaling down to 60KHz.

Michael VE2BVW

```
From -5480122422007691434
X-Google-Thread: 241b302a50,1dbf85705753fb20
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
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Received: by 10.180.94.70 with SMTP id da6mr84814wib.2.1354676970576;
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85.12.40.130.MISMATCH!xlned.com!feeder1.xlned.com!npeer.de.kpn-eurorings.net!
npeer-ng0.de.kpn-eurorings.net!border2.nntp.ams2.giganews.com!
border1.nntp.ams2.giganews.com!border3.nntp.ams.giganews.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!rt.uk.eu.org!de-l.enfer-du-
nord.net!feeder1.enfer-du-nord.net!fu-berlin.de!uni-berlin.de!individual.net!not-
for-mail
From: Allodoxaphobia <knock_yourself_out@example.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LF Antenna Design
Date: 30 Nov 2012 21:10:32 GMT
Lines: 28
Message-ID: <slrnkbi868.99e.knock_yourself_out@vps.jonz.net>
References: <k74cus$p45$1@dont-email.me> <k90ba4$o85$2@dont-email.me>
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 <k98du3$kvq$1@dont-email.me> <ri6gb89uauhdgano8f97otj5f4mjm70p9i@4ax.com>
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User-Agent: slrn/0.9.9p1 (FreeBSD)
Bytes: 2039
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
```

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>>
> I used Al strip, bent in a circle, for the loop (used from 0.1 to 30 MHz). It
> was cheap and easy but making a multi-turn loop would have been quite a task.

I remember years ago someone suggested the following to make a 'simple' multi-turn loop:

Get a length of 'flat computer cable' -- e.g., like the IDE cables for

PC HD's. Such cable can be found in 'surplus' outlets -- sometimes as an 'end piece' on a cable reel.

Form your loop -- cutting the flat cable to the length you desire. Connect every-other cable wire to every-other-other (HI!HI!) cable wire. Your ends, then, are the two outside wires on either side of the cross-over connection zone.

Such cable can be re-'sized' to just the loop count you want by un-zipping unwanted runs of the cable.

Depending on how neatly you mount your loop, you should have no problems with wires shifting position with relation to one another and de-tuning the resultant lash-up.

Attribution unknown...

HTH,
Jonesy W3DHJ http://jonz.net/W3DHJ

From -9024326830696636947
X-Google-Thread: fc2a5,1dbf85705753fb20
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.72.67 with SMTP id b3mr422721pav.28.1354311972223;
        Fri, 30 Nov 2012 13:46:12 -0800 (PST)
Path: 6ni20413pbd.1!nntp.google.com!news.glorb.com!eternal-september.org!
feeder.eternal-september.org!mx04.eternal-september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>
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Subject: Re: LF Antenna Design
Date: Fri, 30 Nov 2012 16:46:02 -0500
Organization: A noiseless patient Spider
Lines: 101
Message-ID: <k9b9f3$9e6$1@dont-email.me>
References: <k74cus$p45$1@dont-email.me> <k90ba4$o85$2@dont-email.me>
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Injection-Info: mx04.eternal-september.org; posting-host="0628ddd77d8fa919af0c3e6d4e8555c4";
     logging-data="9670"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18YEriw5qxCAMsogrsrhosv"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/12.0.1
In-Reply-To: <ri6gb89uauhdgano8f97otj5f4mjm70p9i@4ax.com>
Cancel-Lock: sha1:bIVAFuG/N4yZLxjx5BzTja7pBuk=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

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> I used Al strip, bent in a circle, for the loop (used from 0.1 to 30 MHz). It
> was cheap and easy but making a multi-turn loop would have been quite a task.

I am making a shielded loop so I'm using coax to make the construction
simple. Multiturn won't be a problem.

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> bigger ones result in higher maximum Q, to well over 1,000.

I'm not sure I understand. This sounds more like a ferrite core antenna
where the ferrite is an integral part of the antenna itself. I was
asking about the type of ferrite for a ferrite loop to use as the core
of a transformer to couple the output using multiple turns to boost the
voltage.

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> neglected.

This will be driving an input on an IC so I don't have much info on it.
  I expect it is very high impedance just like the FET.

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> symmetrical. That also obviates the need for a differential amplifier. A 50 feet
> loop is huge.

The loop won't be 50 foot in diameter, it is 50 feet of coax wound in
some 8 turns give or take. At 8 turns that is 2 foot diameter or 300 mm
radius.

As to the shield, I'm told the shield will be a big help in eliminating
local interference from E-field sources. I read that household
appliances are a major source of electrical noise and I know from
experience that my radio controlled clocks seem to have trouble working
near my computers.

> I once (in Europe) designed a frequency standard synchronized to
> DCF77 and reception was OK at distances over 2,000 Km with just a ferrite rod of
> 12 cm length and 1 cm diameter. In order to keep it easy for constructors, the
> coil had just 140 turns with 2n2 to resonate the LC. I don't think the approach
> for WWVB at 60 KHz could be much different (apart from the modulation format).
> I had designed the ferrite antenna amp as a small device that could be fed via
> coax, so one could install it in a place with the lowest noise.

Yes, if I can get away with it, I'll use a ferrite rod. But I want to
eliminate the front end amp and will be driving the input directly from
the antenna. The inductance of this coil will be much lower than a
ferrite core and will need a lot more capacitance to resonate. The coax
coil is what I'm starting with and can always back off to a ferrite
antenna if needed.

Thanks for the input.

Rick

From 7669019248139653744
X-Google-Thread: fc2a5,1dbf85705753fb20
X-Google-NewGroupId: yes

```
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.72.67 with SMTP id b3mr629562pav.28.1354339555138;
        Fri, 30 Nov 2012 21:25:55 -0800 (PST)
Path: 6ni21051pbd.1!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 30 Nov 2012 23:25:54 -0600
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <k74cus$p45$1@dont-email.me> <k90ba4$o85$2@dont-email.me>
<k90moo$s9v$2@dont-email.me> <td2bb8tr85ng2ac2uq4si69vupdp23rrmo@4ax.com>
<k98du3$kvq$1@dont-email.me> <ri6gb89uauhdgano8f97otj5f4mjm70p9i@4ax.com>
<alpine.LNX.2.02.1211301540250.23647@darkstar.example.org>
In-Reply-To: <alpine.LNX.2.02.1211301540250.23647@darkstar.example.org>
Subject: Re: LF Antenna Design (Don Lancaster!)
Date: Fri, 30 Nov 2012 21:25:51 -0800
MIME-Version: 1.0
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18463
Message-ID: <urydnd8mNop_CSTNnZ2dnUVZ5tydnZ2d@giganews.com>
Lines: 11
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
P5sopIIIoe7EKsfVyFmnWcAS+QK6aUs5wK+1nsy2OGXSLxCEs8J99CcQkcduLhflGUy0nb8y8r3bGXx!
dc0Vd8lFHapf9nCn74pplV0AFsUDwh/S9Xe2o4BKsVNrWqVMrPSvrkjEhYhMPLsUG64VdNF6Lw==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1998
X-Original-Bytes: 1937
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
```

Thanks for that, Michael! For several months I had been trying to pump my feeble brain to recall
that brilliant author/engineer, Don Lancaster. I was so bummed out when they booted him off
the last of the great magazines published by the ??????? group. Now, darn it, even forgot the
name of the old time publishing outfit that had the good stuff.
Thanks again, Michael!

Old Chief Lynn, W7LTQ since 1948

```
From -5228630718788998950
X-Google-Thread: fc2a5,1dbf85705753fb20
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.197.201 with SMTP id iw9mr757935pbc.6.1354341598846;
        Fri, 30 Nov 2012 21:59:58 -0800 (PST)
Path: s9ni21281pbb.0!nntp.google.com!news.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-13.dc1.easynews.com.POSTED!not-for-mail
From: Arid ace <nonsmoker@freedom.smokes.oil>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LF Antenna Design
Message-ID: <853jb855t2i6p1mg6sc2qup0riqefperh9@4ax.com>
References: <k74cus$p45$1@dont-email.me> <k90ba4$o85$2@dont-email.me>
<k90moo$s9v$2@dont-email.me> <td2bb8tr85ng2ac2uq4si69vupdp23rrmo@4ax.com>
<k98du3$kvq$1@dont-email.me> <ri6gb89uauhdgano8f97otj5f4mjm70p9i@4ax.com>
<alpine.LNX.2.02.1211301540250.23647@darkstar.example.org>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Lines: 145
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Sat, 01 Dec 2012 00:59:44 -0500
X-Received-Bytes: 8653
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Fri, 30 Nov 2012 16:00:38 -0500, Michael Black <et472@ncf.ca> wrote:

>On Thu, 29 Nov 2012, Arid ace wrote:
>
>
>> With a one turn loop coupled to the one turn primary of an RF
>> transformer, there's no need for a shield. It's fairly easy to provide
>> the piece of wire used for the primary with a center tap that will be
>> grounded so the loop is symmetrical. That also obviates the need for a
>> differential amplifier. A 50 feet loop is huge. I once (in Europe)
>> designed a frequency standard synchronized to DCF77 and reception was OK
>> at distances over 2,000 Km with just a ferrite rod of 12 cm length and 1
>> cm diameter. In order to keep it easy for constructors, the coil had
>> just 140 turns with 2n2 to resonate the LC. I don't think the approach
>> for WWVB at 60 KHz could be much different (apart from the modulation
>> format). I had designed the ferrite antenna amp as a small device that
>> could be fed via coax, so one could install it in a place with the
>> lowest noise.
>>
>Some of the issue may be habit.  Over the decades, various WWVB receivers
>were described, and I remember them all as using some sort of larger loop.
```

>It may have nothing to do with design so much as habit, once an idea is
>planted, others continue it.

It could be a habit indeed because calculation would show that unless outside the intended range, a fairly small loop is required. Another topic where habit shows well regards PLL: even for AM reception, design resembles that for FM reception (limiter).

>
>In the early days of "amateur radio", everything was so low in frequency,
>big loops and 60KHz probably weren't that foreign. So the collective
>memory may retain that, a long time after hams were relegated to those
>"uselss" shortwave frequencies.

Low in frequency and power, big loops might be useful. Here in Panama with many months of thunderstorm activity, a broadband loop with S/N comparable to a long wire but without the QRN would be rather useful. It's a work in progress but if it would be easy, it would already exist.

>
>The fact that all those WWVB clocks have relatively small loops is an
>indicator that not much is needed. I don't know how complicated the
>receivers have become, if at all. I can get WWVB here in Montreal on my
>Casio Waveceptor watch, and whatever that uses has to be way smaller than
>the loops in the small WWVB clocks.

With DCF77 it's the same. Good enough reception with a ferrite antenna as used in small MW portables. After a source-follower eventually an amp with more selectivity, when (back then) interference from TV sets would be a problem (harmonics of line output transformer).

>
>The better the loop, of course, the more selectivity it provides. I don't
>have any of those WWVB receiver articles handy, but again I remember them
>as being relatively simple amplifiers, fairly depending on the loop for
>selectivity. The larger the loop, the more directional it can be, which
>presumably helps with all the local junk generated that can cause issues.

When the major issue was a reference frequency, I used a 10 MHz VCXO,
and with the proper dividers that resulted in a mixer as the first or second stage, with an IF so low that simple RC audio filters could be used. The selectivity was phenomenal.
>
>The analog part (or what most people were interested in until recent
>times), wsa the antenna and selectivity and a good amplifier. Simple and
>complicated at the same time. And it's a spectrum area often "unkonwn",
>not many receivers to tune down there, so one wonders if the signal is
>there, or it's the equipment, until the equipment becomes right enough for
>the signal to appear. if I'm building a WWV receiver, it's easy to check
>for the signal since I have a few receivers that cover the frequency
>range.

Several of my receivers can be tuned down to a few KHz as well, and on the 85

meter long wire, despite complete mismatch to 50 ohm, WWVB can be received
though not more than ~10 dB above noise - on a rare day without thunderstorm.
Panama is clearly outside the intended service area.

>
>It's not a new field. There was one guy, I can't remember his name, who
>wrote a number of articles in QST about WWVB and WWVL reception, and high
>stability frequency standards, I can picture on in the summer of 1971.
>
>Don Lancaster did an article about WWVB, more an introduction, and he has
>it on his webpage at www.tinaja.com, titled something like "Experiments in
>WWVB Reception".

Nice site, the article including a WWVB receiver leaves no questions.
The web has quite a few photos of WWVB receivers, also indicating how simple the
loop can be. One: http://www.nixiemagic.com/
>
>Ken Cornell spent a lot of time writing about low frequency work, he had a
>"cookbook" out at one point, initially self-published but a later edition
>published by Ham Radio Magazine. But he died, and access to the book
>other than used died with him.

I started reading Ham Radio in 1975 so probably missed that. The importance of
LF is without doubt, just count the number of (military) FSK transmitters below
~400 KHz. With an online SDR in the Netherlands they can even be heard below 10
KHz.
>
>Ralph Burhan, who was a ham, wrote a lot about low frequencies. Using
>Loran as a frequency standard (or was it time?), all kinds of articles in
>various hobby magazines about low frequency antennas (sometimes loops, but
>often short whips, directly coupled to a very high impedance buffer). I'm
>not sure any of that is online, but it might be worth a search.

If I remember well, Loran (navigation system) was about time (difference).
>
>There have been quite a few WWVB receiver articles in the ham magazines,
>though I have no dates. I think one wsa in September 1971 "73". The ones
>I saw all predate WWVB's more recent visibility as a feed to all those
>"atomic clocks". Most were interested in the station as a frequency
>standard, though as early as that seventies Don Lancaster article, people
>were thinking about decoders to get the time.

The use as frequency standard was very popular in Europe too, hence I had to
design one for DCF77 (77.5 KHz) and later for DLF, a LW transmitter at 153 KHz.
The output had to be a synchronized 10 MHz clock and an error indicator, when
the signal was temporarily interrupted.

>
>I think there are groups and pages devoted to this sort of thing, but I
>don't follow it so anyone's search is as good as mine would be.

Since the timing info also was sent as phase modulation, I lost interest.
Although the average frequency remains the same, the modulation is transferred

```
to the VCXO which makes short time measurements inaccurate. In Europe, LW
transmitters were phase modulated with program info to facilitate automatic
receiver tuning so DLF no longer was useful either.
>
>The interest may be picking up, talk of a low frequency ham band (or is it
>already in place?  I forget).  And of coruse, there is the 160-190KHz
>"license free band" that some have put a lot of effort into, "lowfers",
>searching for that sort of thing might turn up useful information, albeit
>needind scaling down to 60KHz.
>
>     Michael  VE2BVW
>
In Panama, ham radio regulation follows that of the US, with exception of CB
which is prohibited. The new ham band (136 KHz) might be a good idea here too,
plenty of room for a balloon antenna like the one described here:
http://www.alg.myzen.co.uk/radio/136/experi_vert.htm

Jan



From 2220910283244486316
X-Google-Thread: 241b302a50,1dbf85705753fb20
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.216.200.1 with SMTP id y1mr834793wen.7.1354677126101;
        Tue, 04 Dec 2012 19:12:06 -0800 (PST)
Path: i11ni21456wiw.0!nntp.google.com!feeder2.cambriumusenet.nl!feed.tweaknews.nl!
194.109.133.86.MISMATCH!newsfeed.xs4all.nl!newsfeed3.news.xs4all.nl!xs4all!
border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!
border3.nntp.ams.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!
rt.uk.eu.org!aioe.org!eternal-september.org!feeder.eternal-september.org!
mx04.eternal-september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LF Antenna Design
Date: Sat, 01 Dec 2012 01:30:19 -0500
Organization: A noiseless patient Spider
Lines: 100
Message-ID: <k9c86d$41u$1@dont-email.me>
References: <k74cus$p45$1@dont-email.me> <k90ba4$o85$2@dont-email.me>
<k90moo$s9v$2@dont-email.me> <td2bb8tr85ng2ac2uq4si69vupdp23rrmo@4ax.com>
<k98du3$kvq$1@dont-email.me> <ri6gb89uauhdgano8f97otj5f4mjm70p9i@4ax.com>
<alpine.LNX.2.02.1211301540250.23647@darkstar.example.org>
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Injection-Date: Sat, 1 Dec 2012 06:30:37 +0000 (UTC)
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host="0628ddd77d8fa919af0c3e6d4e8555c4";
     logging-data="4158"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/ufGg4y2Ib1iuKN1zeX7ps"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
In-Reply-To: <alpine.LNX.2.02.1211301540250.23647@darkstar.example.org>
```

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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 11/30/2012 4:00 PM, Michael Black wrote:

> On Thu, 29 Nov 2012, Arid ace wrote:
>
>
>> With a one turn loop coupled to the one turn primary of an RF transformer, there's no need for a shield. It's fairly easy to provide the piece of wire used for the primary with a center tap that will be grounded so the loop is symmetrical. That also obviates the need for a differential amplifier. A 50 feet loop is huge. I once (in Europe) designed a frequency standard synchronized to DCF77 and reception was OK at distances over 2,000 Km with just a ferrite rod of 12 cm length and 1 cm diameter. In order to keep it easy for constructors, the coil had just 140 turns with 2n2 to resonate the LC. I don't think the approach for WWVB at 60 KHz could be much different (apart from the modulation format). I had designed the ferrite antenna amp as a small device that could be fed via coax, so one could install it in a place with the lowest noise.
>>
>
> Some of the issue may be habit. Over the decades, various WWVB receivers were described, and I remember them all as using some sort of larger loop.
> It may have nothing to do with design so much as habit, once an idea is planted, others continue it.

Hi Michael,

I certainly don't have a habit in this area. I am a total newbie in antenna and even radio design. What I know somewhat is DSP and my goal is to design a 100% digital RCC (Radio Controlled Clock). I am also trying to make it as low power as possible so that it can be powered from scavenged energy sources... no batteries, no wall plug. Just set it on the wall and it runs.

> In the early days of "amateur radio", everything was so low in frequency, big loops and 60KHz probably weren't that foreign. So the collective memory may retain that, a long time after hams were relegated to those "uselss" shortwave frequencies.
>
> The fact that all those WWVB clocks have relatively small loops is an indicator that not much is needed. I don't know how complicated the receivers have become, if at all. I can get WWVB here in Montreal on my Casio Waveceptor watch, and whatever that uses has to be way smaller than the loops in the small WWVB clocks.

Yes, they aren't terribly high power either. As I've said elsewhere, I am starting with a loop antenna because it can give me the largest output voltage without an amp and I can save that amount of power. If it turns out that I can find an amp that will provide adequate gain and not use much power I can go that route. For now I want to try the large loop antenna.

> The better the loop, of course, the more selectivity it provides. I don't have any of those WWVB receiver articles handy, but again I remember them as being relatively simple amplifiers, fairly depending on the loop for selectivity. The larger the loop, the more directional it can be, which presumably helps with all the local junk generated that can cause issues.

I've seen a number of these designs, none are optimized for low power using load resistance in the 10 kohm or lower range.

> Don Lancaster did an article about WWVB, more an introduction, and he has it on his webpage at www.tinaja.com, titled something like "Experiments in WWVB Reception".

Yes, I have this article.

> Ralph Burhan, who was a ham, wrote a lot about low frequencies. Using Loran as a frequency standard (or was it time?), all kinds of articles in various hobby magazines about low frequency antennas (sometimes loops, but often short whips, directly coupled to a very high impedance buffer). I'm not sure any of that is online, but it might be worth a search.

I've found tons of self-construction web pages on loop antennas, but no so many cover the theory a lot. I've found a small number that are better than most and have useful info. It was Randy Yates in the comp.dsp forum who gave me the formula for received signal strength from a loop antenna from the ARRL handbook. That helped tremendously and allowed me to understand a similar formula I had found for antenna equivalent height.

> The interest may be picking up, talk of a low frequency ham band (or is it already in place? I forget). And of coruse, there is the 160-190KHz "license free band" that some have put a lot of effort into, "lowfers", searching for that sort of thing might turn up useful information, albeit needind scaling down to 60KHz.

One of the antenna pages I read was about using a low frequency band with "special" permission. He wanted a loop receiving antenna so he could steer the null to his transmitting antenna. This was 2 turns, 10 foot in diameter, a big one! He is the one that used a ferrite doughnut to transformer couple the output with 10 turns IIRC.

Rick

From -1279185812050986769
X-Google-Thread: fc2a5,93acdcd32739922e,start
X-Google-NewGroupId: yes
X-Google-Thread: 10e8ad,93acdcd32739922e,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid8f86f75953,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.217.69 with SMTP id ow5mr815357pbc.0.1354345202967;
Fri, 30 Nov 2012 23:00:02 -0800 (PST)
MIME-Version: 1.0
Path: s9ni21158pbb.0!nntp.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!news-out.readnews.com!transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1352962800@panix.com>
Followup-To: poster
Date: 1 Dec 2012 02:00:02 -0500
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 19 Dec 2012 02:00:00 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1354345200@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com (rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1354345202 3537 166.84.1.2 (1 Dec 2012 07:00:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 1 Dec 2012 07:00:02 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
X-Received-Bytes: 3836

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted twice monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

```
the rec.radio.amateur.moderated Moderation Team had decided to consider       |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup.  After a successful trial         |
period (90 days, through early July 2009), we decided to adopt this           |
change permanently.                                                           |

Approved rec.radio.amateur.* newsgroups are those that are currently
listed in the latest version of the "List of Big Eight Newsgroups" which
is crossposted monthly to news.announce.newgroups, news.groups, and
news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those
that have been created consistent with the suggestions in "So You Want
to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either
"radio.amateur" or "ham-radio" in their names, including
uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved
newsgroups up-to-date.  In case we have overlooked any, and a submission
is rejected in error as a result, the rejected submitter can E-mail us
at our administrative contact address (in the signature at the bottom of
this article, and the default Reply-To for the rejection message)
requesting that it be added, and that the article be approved.  We may
still choose to reject articles crossposted to any alt.* newsgroup with
an inappropriate name, including obscene language, embedded
name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.


From -709449931080985053
X-Google-Thread: fc2a5,1dbf85705753fb20
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.89.138 with SMTP id bo10mr1933648pab.30.1354491753906;
        Sun, 02 Dec 2012 15:42:33 -0800 (PST)
Path: s9ni23478pbb.0!nntp.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-01.dc1.easynews.com.POSTED!not-for-mail
From: John Ferrell <W8CCW@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LF Antenna Design (Don Lancaster!)
Message-ID: <impnb8ptf7p99higjnsjvmf0s46vmvrrnc@4ax.com>
References: <k74cus$p45$1@dont-email.me> <k90ba4$o85$2@dont-email.me>
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Lines: 20
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Sun, 02 Dec 2012 18:42:57 -0500
X-Received-Bytes: 1727
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Don's Website is at
tinaja.com

As always, very interesting reading for us mere mortals!
73, de w8ccw...

On Fri, 30 Nov 2012 21:25:51 -0800, "coffelt2" <coffelt2@comcast.net>
wrote:

>     Thanks for that, Michael! For several months I had been trying to pump
>my feeble brain to recall
>that brilliant author/engineer, Don Lancaster. I was so bummed out when they
>booted him off
>the last of the great magazines published by the ??????? group. Now, darn
>it, even forgot the
>name of the old time publishing outfit that had the good stuff.
>     Thanks again, Michael!
>
>Old Chief Lynn, W7LTQ since 1948
John Ferrell W8CCW


From 3154004094953676846
X-Google-Thread: fc2a5,e73c5174619c4775,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.180.74.79 with SMTP id r15mr70661wiv.4.1354566194972;
        Mon, 03 Dec 2012 12:23:14 -0800 (PST)
Path: i11ni7365wiw.0!nntp.google.com!proxad.net!feeder1-2.proxad.net!
feeder.erje.net!eu.feeder.erje.net!newsfeed.CARNet.hr!news.grnet.gr!
news.otenet.gr!not-for-mail
From: Kosmas Anastasiadis <sv2bfi@otenet.gr>
Newsgroups: rec.radio.amateur.homebrew
Subject: icom HM-7
Date: Mon, 03 Dec 2012 22:22:51 +0200
Organization: An OTEnet S.A. customer
Lines: 5
```

```
Message-ID: <k9j1nh$opi$1@mouse.otenet.gr>
NNTP-Posting-Host: athedsl-4538902.home.otenet.gr
Mime-Version: 1.0
X-Trace: mouse.otenet.gr 1354566194 25394 94.70.14.30 (3 Dec 2012 20:23:14 GMT)
X-Complaints-To: abuse@otenet.gr
NNTP-Posting-Date: Mon, 3 Dec 2012 20:23:14 +0000 (UTC)
User-Agent: Mozilla/5.0 (X11; Linux i686; rv:17.0) Gecko/17.0 Thunderbird/17.0
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
```

I found the schematic of icom's HM-7 hand powered mic.
One of the resistors inside is 18KOhm or 1.8KOhm ???

Thanks
SV2BFI

```
From -4807093085751118596
X-Google-Thread: fc2a5,f0ee42bba3b6005,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.205.65 with SMTP id fp1mr6800861qab.4.1354586029626;
        Mon, 03 Dec 2012 17:53:49 -0800 (PST)
MIME-Version: 1.0
Received: by 10.50.10.165 with SMTP id j5mr431188igb.0.1354586029419; Mon, 03
 Dec 2012 17:53:49 -0800 (PST)
Path: gf5ni48141964qab.0!nntp.google.com!c8no138264qao.0!postnews.google.com!
i2g2000pbi.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Mon, 3 Dec 2012 17:53:49 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: i2g2000pbi.googlegroups.com; posting-host=117.199.242.176;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
NNTP-Posting-Host: 117.199.242.176
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:10.0.2) Gecko/20100101 Firefox/
10.0.2,gzip(gfe)
Message-ID: <53ae50cb-4481-4706-9b08-e43cd03b9f84@i2g2000pbi.googlegroups.com>
Subject: BEST HOT VIDEO WATCH HERE MODLES HOT PHOTOS
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Injection-Date: Tue, 04 Dec 2012 01:53:49 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.in/

ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.in/2010/09/hot-lip-kiss-135.html

ALL JOBS SITES FREE SEE

http://jobstwo.blogspot.in/

HOT VIDEOS

http://hotvideotoou.blogspot.in/2011/01/kiss-videos.html

hot lip kiss
http://hotvidos.blogspot.in/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.in/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.in/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.in/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.in/2010/07/tamil-hot-videos.html

```
From -515017775230826366
X-Google-Thread: fc2a5,e73c5174619c4775
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.78.40 with SMTP id y8mr2541595paw.9.1354652428159;
        Tue, 04 Dec 2012 12:20:28 -0800 (PST)
MIME-Version: 1.0
Path: s9ni27723pbb.0!nntp.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news.glorb.com!aioe.org!.POSTED!not-for-mail
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: icom HM-7
Date: Tue, 04 Dec 2012 15:20:24 -0500
Organization: Aioe.org NNTP Server
Lines: 31
Message-ID: <fmmck-84AC41.15202304122012@5ad64b5e.bb.sky.com>
References: <k9j1nh$opi$1@mouse.otenet.gr>
NNTP-Posting-Host: GgJwBKFQcOVZpPKFUL2POQ.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
Bytes: 2029
```

In article <k9j1nh$opi$1@mouse.otenet.gr>,
 Kosmas Anastasiadis <sv2bfi@otenet.gr> wrote:

> I found the schematic of icom's HM-7 hand powered mic.
> One of the resistors inside is 18KOhm or 1.8KOhm ???
>
> Thanks

> SV2BFI

Kosmas-

I found that same schematic on the web. I did not take my microphone apart to verify, but assume the resistor is 1800 Ohms (1.8 KOhm). If you look closely, you can see a speck where the dot should be.

That resistor, along with the 10K Ohm resistor, determines Voltage at the transistor base, which is about 0.65 Volts higher than at the emitter, which sets the transistor current.

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You can get a better idea if you look at the circuit of the rig the microphone goes to. I'm fairly sure the HM-7 was used with an IC-22U, which is where my microphone came from. (Mine is not marked as HM-7.)

Fred
K4DII

From 7546106790028635607
X-Google-Thread: fc2a5,e73c5174619c4775
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.77.162 with SMTP id t2mr2463807paw.7.1354663566452;
        Tue, 04 Dec 2012 15:26:06 -0800 (PST)
Path: s9ni27897pbb.0!nntp.google.com!news.glorb.com!feeder.erje.net!us.feeder.erje.net!news2.arglkargh.de!news.musoftware.de!wum.musoftware.de!de-l.enfer-du-nord.net!feeder2.enfer-du-nord.net!news.grnet.gr!news.otenet.gr!not-for-mail
From: Kosmas Anastasiadis <sv2bfi@otenet.gr>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: icom HM-7
Date: Wed, 05 Dec 2012 01:26:06 +0200
Organization: An OTEnet S.A. customer
Lines: 39
Message-ID: <k9m0qd$eh0$1@mouse.otenet.gr>
References: <k9j1nh$opi$1@mouse.otenet.gr>
<fmmck-84AC41.15202304122012@5ad64b5e.bb.sky.com>
NNTP-Posting-Host: athedsl-4541256.home.otenet.gr
Mime-Version: 1.0
X-Trace: mouse.otenet.gr 1354663565 14880 94.70.23.80 (4 Dec 2012 23:26:05 GMT)
X-Complaints-To: abuse@otenet.gr
NNTP-Posting-Date: Tue, 4 Dec 2012 23:26:05 +0000 (UTC)
User-Agent: Mozilla/5.0 (X11; Linux i686; rv:17.0) Gecko/17.0 Thunderbird/17.0
In-Reply-To: <fmmck-84AC41.15202304122012@5ad64b5e.bb.sky.com>

```
Content-Type: text/plain; charset=ISO-8859-7; format=flowed
Content-Transfer-Encoding: 7bit


> In article <k9j1nh$opi$1@mouse.otenet.gr>,
>   Kosmas Anastasiadis <sv2bfi@otenet.gr> wrote:
>
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>> One of the resistors inside is 18KOhm or 1.8KOhm ???
>>
>> Thanks
>> SV2BFI
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> which is where my microphone came from.  (Mine is not marked as HM-7.)
>
> Fred
> K4DII
>

Thank you for your time Fred.
I suppose that's correct.
73s
SV2BFI




From -5807426598011780825
X-Google-Thread: fc2a5,14e7107f35fe7934
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.84.202 with SMTP id b10mr3464809paz.43.1354676075723;
        Tue, 04 Dec 2012 18:54:35 -0800 (PST)
Path: s9ni28200pbb.0!nntp.google.com!news.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
```

nntp-14.dc1.easynews.com.POSTED!not-for-mail
From: Arid ace <nonsmoker@freedom.smokes.oil>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wes Hayward hybrid cascode amplifiers from 2007 QST.
Message-ID: <m0dtb81ukgjrj10sokrq17a862fpoe49b9@4ax.com>
References: <0c69e395-1d12-46b1-b57c-3f766672faf3@googlegroups.com>
<g3qo98t400pu5t2fg1aq00k92f5qq1pjbn@4ax.com> <30c1e8d9-229d-483b-8a7b-
e7fecc45a667@googlegroups.com>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Lines: 24
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Tue, 04 Dec 2012 21:54:15 -0500
X-Received-Bytes: 1793
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Thu, 22 Nov 2012 02:27:13 -0800 (PST), Dana <dana.myers@gmail.com> wrote:

>On Thursday, November 8, 2012 6:37:09 PM UTC-8, Arid ace wrote:
>
>> I wonder why you didn't try to get an oldie like the Plessey SL312. Look it up,
>>
>> and see that it's perfect for the job - it provides some 30 dB gain without an
>>
>> input up-transformation and with a larger AGC range.
>
>Is the SL312 still available? Texas Instruments' TL026 is still new from
>DigiKey and Mouser, even through-hole parts. Av of > 55 and 50dB of AGC
>range.
>
>Cheers,
>Dana K6JQ

My error - the IC mentioned should be SL612C and nowadays it's available from
China via eBay:
http://www.ebay.com/itm/120922014405?
ssPageName=STRK:MEWNX:IT&_trksid=p3984.m1497.l2649
It has a much wider AGC range than the TL026, up to 70 dB IOW higher than the
stage gain.

Jan

From 8474533837620012842
X-Google-Thread: fc2a5,e73c5174619c4775
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.86.6 with SMTP id l6mr3717225paz.11.1354746568842;

```
        Wed, 05 Dec 2012 14:29:28 -0800 (PST)
MIME-Version: 1.0
Path: s9ni28089pbb.0!nntp.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!not-for-mail
From: mzenier@eskimo.com (Mark Zenier)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: icom HM-7
Date: Wed, 5 Dec 2012 16:57:13 GMT
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 46
Message-ID: <k9ohrm0r3g@enews4.newsguy.com>
References: <k9j1nh$opi$1@mouse.otenet.gr>
<fmmck-84AC41.15202304122012@5ad64b5e.bb.sky.com> <k9m0qd$eh0$1@mouse.otenet.gr>
NNTP-Posting-Host:
pb1427ffaf57e4623c772581e74844a50382b4c9a6867155828b458e5f90892a2.newsdawg.com
Originator: mzenier@eskimo.com (Mark Zenier)
X-Received-Bytes: 2479

In article <k9m0qd$eh0$1@mouse.otenet.gr>,
Kosmas Anastasiadis  <sv2bfi@otenet.gr> wrote:
>
>> In article <k9j1nh$opi$1@mouse.otenet.gr>,
>>   Kosmas Anastasiadis <sv2bfi@otenet.gr> wrote:
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>>> One of the resistors inside is 18KOhm or 1.8KOhm ???
>>>
>>> Thanks
>>> SV2BFI
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>>
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>> microphone goes to.  I'm fairly sure the HM-7 was used with an IC-22U,
>> which is where my microphone came from.  (Mine is not marked as HM-7.)
>>
>
>Thank you for your time Fred.
```

```
>I suppose that's correct.
```

If it's an electret microphone element, you could check out the datasheet
and see what it recommended. (The kind with the built in FET, and about
the only kind that Japanese have seemed to have used for decades).
I have a vague memory of the Panasonic listing in the Digikey catalog with
recommended resistors in the 2k to 5k range.

Mark Zenier mzenier@eskimo.com
Googleproofaddress(account:mzenier provider:eskimo domain:com)

```
From 7877579761376742944
X-Google-Thread: fc2a5,e73c5174619c4775
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.202.68 with SMTP id kg4mr24994pbc.3.1354748554073;
        Wed, 05 Dec 2012 15:02:34 -0800 (PST)
MIME-Version: 1.0
Path: 6ni29407pbd.1!nntp.google.com!news.glorb.com!aioe.org!.POSTED!not-for-mail
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: icom HM-7
Date: Wed, 05 Dec 2012 18:02:30 -0500
Organization: Aioe.org NNTP Server
Lines: 54
Message-ID: <fmmck-24FCB2.18023005122012@5ad64b5e.bb.sky.com>
References: <k9j1nh$opi$1@mouse.otenet.gr>
<fmmck-84AC41.15202304122012@5ad64b5e.bb.sky.com> <k9m0qd$eh0$1@mouse.otenet.gr>
NNTP-Posting-Host: 2eck4t48lq9eXJE8O+Ju5A.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
```

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 Kosmas Anastasiadis <sv2bfi@otenet.gr> wrote:

```
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> >
> > Kosmas-
```

> >
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> > Volts, so current would be about 0.1/22 or 4.5 ma if I did the math
> > correctly. If the resistor were 18 KOhms instead, current would be
> > unreasonably high.

Kosmas-

I dug out my old Icom microphone and found it was the one for an IC-22S, which does not have an amplifier. So far, I have not found a copy of the IC-22U diagram, so do not know what the amplifier load resistor is. It appears the HM-7 would work with newer radios such as the IC-718, which has a DC load resistance of about 1200 Ohms (1K AC + 220 DC).

I assumed that the radio has a regulated voltage to feed the microphone amplifier, probably 8 Volts like the IC-718. The Base-Emitter junction of the transistor might be around 0.6 volts for silicon.

If the unknown resistor is 1800 Ohms, current in the transistor would be relatively low, and collector voltage would probably be a little higher than 4 Volts depending on the load resistor.

If the unknown resistor is 18,000 Ohms, current in the transistor would be higher, and collector voltage would probably be lower than 4 Volts. For this value, the circuit might work as well without it!

Perhaps it would work with either value resistor, but I prefer the 1800 Ohm choice. I wish someone would come along with an HM-7 who can open it up and check resistors.

Fred
K4DII

```
From -1985902535910654503
X-Google-Thread: fc2a5,e73c5174619c4775
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.86.98 with SMTP id o2mr3268914paz.29.1354755761829;
        Wed, 05 Dec 2012 17:02:41 -0800 (PST)
MIME-Version: 1.0
Path: s9ni29816pbb.0!nntp.google.com!news.glorb.com!aioe.org!.POSTED!not-for-mail
From: Fred McKenzie <fmmck@aol.com>
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: icom HM-7
Date: Wed, 05 Dec 2012 20:02:39 -0500
Organization: Aioe.org NNTP Server
Lines: 31
Message-ID: <fmmck-34DE0C.20023905122012@5ad64b5e.bb.sky.com>
References: <k9j1nh$opi$1@mouse.otenet.gr>
<fmmck-84AC41.15202304122012@5ad64b5e.bb.sky.com> <k9m0qd$eh0$1@mouse.otenet.gr>
<k9ohrm0r3g@enews4.newsguy.com>
NNTP-Posting-Host: 2eck4t48lq9eXJE8O+Ju5A.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
```

In article <k9ohrm0r3g@enews4.newsguy.com>,
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> the only kind that Japanese have seemed to have used for decades).
> I have a vague memory of the Panasonic listing in the Digikey catalog with
> recommended resistors in the 2k to 5k range.

Mark-

The Icom HM-7 is at least 30 years old. It has a 600 Ohm dynamic element with a 2SD661 silicon transistor amplifier. The HM-7 design is similar to a transistorized carbon microphone replacement. The resistor equivalent to the one you refer to, is inside the radio.

This discussion is about a bias resistor. Picture a 10K Ohm resistor connected between the transistor collector and base, with another resistor connected from base to ground. This second resistor is either 1800 Ohms or 18,000 Ohms. (Actually the microphone element is connected between the resistor junction and transistor base.)

I found the diagram in an Icom IC-22U owners manual, but it is hard to see if the value is 1.8K or 18K. There is a tiny fly-speck where a decimal point could be.

I think the only way we will know for sure, is if someone has an HM-7 and will open it up to see.

Fred
K4DII

```
From -4200225527901489516
X-Google-Thread: 241b302a50,e73c5174619c4775
X-Google-Attributes: gid241b302a50,public,usenet
```

```
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Received: by 10.224.189.16 with SMTP id dc16mr345716qab.0.1354756021389;
        Wed, 05 Dec 2012 17:07:01 -0800 (PST)
MIME-Version: 1.0
Received: by 10.49.98.42 with SMTP id ef10mr2435842qeb.15.1354756021364; Wed,
 05 Dec 2012 17:07:01 -0800 (PST)
Path: gf5ni47564750qab.0!nntp.google.com!c8no1580273qao.0!postnews.google.com!
a2g2000yqh.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Wed, 5 Dec 2012 17:07:01 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: a2g2000yqh.googlegroups.com; posting-host=89.242.184.201; posting-
account=uEpC4QoAAADI5mmmGvLn3QTEz4ICnoKq
NNTP-Posting-Host: 89.242.184.201
References: <k9j1nh$opi$1@mouse.otenet.gr>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:6.0) Gecko/20100101
Firefox/6.0,gzip(gfe)
Message-ID: <44d92adb-1468-4626-b64b-d69aa7e0771a@a2g2000yqh.googlegroups.com>
Subject: Re: icom HM-7
From: doug <doug.morsit@gmail.com>
Injection-Date: Thu, 06 Dec 2012 01:07:01 +0000
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

On Dec 3, 8:22=A0pm, Kosmas Anastasiadis <sv2...@otenet.gr> wrote:
> I found the schematic of icom's HM-7 hand powered mic.
> One of the resistors inside is 18KOhm or 1.8KOhm ???
>
> Thanks
> SV2BFI



Hello Kosmas, I looked inside my HM7 mic. which
came with my Icom 740, the resistor is one point eight K.
(1.8k), and is in parallel with the 4.7uf. capacitor as shown
in the schematic. I checked the value of this resistor with
digital meter,and it confirmed this resistance value.

HTH,   Doug.  GM3OAV>



From 2862113045610556734
X-Google-Thread: fc2a5,14e7107f35fe7934
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.80.199 with SMTP id t7mr157171pax.40.1354783517890;
        Thu, 06 Dec 2012 00:45:17 -0800 (PST)
Received: by 10.50.191.131 with SMTP id gy3mr184723igc.1.1354783517851; Thu,
 06 Dec 2012 00:45:17 -0800 (PST)
Path: 6ni28943pbd.1!nntp.google.com!kt20no12264640pbb.1!postnews.google.com!
```

glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Thu, 6 Dec 2012 00:45:17 -0800 (PST)
In-Reply-To: <m0dtb81ukgjrj10sokrq17a862fpoe49b9@4ax.com>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=98.234.12.80;
posting-account=AZo7EAoAAAD31aSuorv4pjje-S611hHc
NNTP-Posting-Host: 98.234.12.80
References: <0c69e395-1d12-46b1-b57c-3f766672faf3@googlegroups.com>
 <g3qo98t400pu5t2fg1aq00k92f5qq1pjbn@4ax.com> <30c1e8d9-229d-483b-8a7b-
e7fecc45a667@googlegroups.com>
 <m0dtb81ukgjrj10sokrq17a862fpoe49b9@4ax.com>
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <dac5ec4b-f2aa-4d07-8866-9b3428f54076@googlegroups.com>
Subject: Re: Wes Hayward hybrid cascode amplifiers from 2007 QST.
From: Dana <dana.myers@gmail.com>
Injection-Date: Thu, 06 Dec 2012 08:45:17 +0000
Content-Type: text/plain; charset=ISO-8859-1

On Tuesday, December 4, 2012 6:54:15 PM UTC-8, Arid ace wrote:

> My error - the IC mentioned should be SL612C and nowadays it's available from
>
> China via eBay:
>
> http://www.ebay.com/itm/120922014405?
ssPageName=STRK:MEWNX:IT&_trksid=p3984.m1497.l2649
>
> It has a much wider AGC range than the TL026, up to 70 dB IOW higher than the
>
> stage gain.

Let's see. SL612, $8+ each. TL026 $1.50 each.
-3dB bandwidth - SL612 up to maybe 15MHz. TL026 up to 50MHz.
SL612 AGC range 70dB, gain of 34dB. TL026 AGC range 50dB, gain of 38dB.
SL612 obsolete. TL026 in production.

An AGC range far in excess of stage gain isn't much use if the stage
is overloading anyway.

Why again would I consider the SL612? :-)

Dana K6JQ

From -829811202608835780
X-Google-Thread: fc2a5,278c989bbb7f0a3f,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.79.233 with SMTP id m9mr145016pax.37.1354785340216;
        Thu, 06 Dec 2012 01:15:40 -0800 (PST)

MIME-Version: 1.0
Path: 6ni30142pbd.1!nntp.google.com!news.glorb.com!eternal-september.org!feeder.eternal-september.org!mx04.eternal-september.org!news.eternal-september.org!.POSTED!not-for-mail
From: davidmylastname@acm.org (David Griffith)
Newsgroups: rec.radio.amateur.homebrew
Subject: Making a 2m/70cm + 1.25m diplexer
Date: Thu, 6 Dec 2012 09:15:39 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 19
Message-ID: <k9pnnr$e5j$1@frotz.eternal-september.org>
Injection-Date: Thu, 6 Dec 2012 09:15:39 +0000 (UTC)
Injection-Info: frotz.eternal-september.org; posting-host="f04bf7c0de630006de20180128778292";
     logging-data="14515"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+xvrhnXL9U8vxj9gIMMaNn"
User-Agent: tin/1.9.6-20100522 ("Lochruan") (UNIX) (Linux/2.6.32-5-686 (i686))
Cancel-Lock: sha1:OmXDgm+tak50nlOsV18/85a02s8=

In order to connect a 2m/70cm radio and a 1.25m radio to a triband antenna (2m/1.25m/70cm), one requires a triplexer and diplexer. I'd like to cut down on the number and size of equipment to do this.

I asked Comet about making a single compact unit that takes 2m/70cm on one port and 1.25m on the other. Mick Stwertnik told me that they designed and specced it out, but the cost would be a prohibitive $200-ish.

So I investigated making my own and found Jim Tonne's Diplexer program. I asked him if he could extend the program to allow for designing triplexers. He had some hackish solution that sort of worked, but he doesn't know the math to do it correctly in the first place.

Where should I go from here?

--
David Griffith
davidmylastname@acm.org   <--- Put my last name where it belongs

From -4154872934576449660
X-Google-Thread: fc2a5,e73c5174619c4775
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Received: by 10.181.13.205 with SMTP id fa13mr1708039wid.3.1354823133625;
        Thu, 06 Dec 2012 11:45:33 -0800 (PST)
Path: i11ni40756wiw.0!nntp.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!194.109.133.87.MISMATCH!newsfeed.xs4all.nl!newsfeed1.news.xs4all.nl!xs4all!feeds.phibee-telecom.net!de-l.enfer-du-nord.net!feeder1.enfer-du-nord.net!news.grnet.gr!news.otenet.gr!not-for-mail
From: Kosmas Anastasiadis <sv2bfi@otenet.gr>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: icom HM-7
Date: Thu, 06 Dec 2012 21:45:33 +0200
Organization: An OTEnet S.A. customer
Lines: 38
Message-ID: <k9qskt$fi0$1@mouse.otenet.gr>
References: <k9j1nh$opi$1@mouse.otenet.gr> <44d92adb-1468-4626-b64b-d69aa7e0771a@a2g2000yqh.googlegroups.com>
NNTP-Posting-Host: athedsl-4548074.home.otenet.gr
Mime-Version: 1.0
X-Trace: mouse.otenet.gr 1354823133 15936 94.70.49.242 (6 Dec 2012 19:45:33 GMT)
X-Complaints-To: abuse@otenet.gr
NNTP-Posting-Date: Thu, 6 Dec 2012 19:45:33 +0000 (UTC)
User-Agent: Mozilla/5.0 (X11; Linux i686; rv:17.0) Gecko/17.0 Thunderbird/17.0
In-Reply-To: <44d92adb-1468-4626-b64b-d69aa7e0771a@a2g2000yqh.googlegroups.com>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 8bit

Στις 06/12/2012 03:07 πμ, ο/η doug έγραψε:
> On Dec 3, 8:22 pm, Kosmas Anastasiadis <sv2...@otenet.gr> wrote:
>> I found the schematic of icom's HM-7 hand powered mic.
>> One of the resistors inside is 18KOhm or 1.8KOhm ???
>>
>> Thanks
>> SV2BFI
>
>
> Hello Kosmas, I looked inside my HM7 mic. which
> came with my Icom 740, the resistor is one point eight K.
> (1.8k), and is in parallel with the 4.7uf. capacitor as shown
> in the schematic. I checked the value of this resistor with
> digital meter,and it confirmed this resistance value.
>
> HTH,   Doug. GM3OAV>
>

I found a schematic at an japanese site too.
The resistor is 1.8Kohm.
I finish it and it is working loud and clear.
I have an icom ic-738 transceiver. I have both
hm-36 and sm-20 microphones. The hm-326 has very
low output and can't drive the transceiver to full
output on ssb. The sm-20 has enough power but it
picks up any surround noise (blowers, my children,
telephon rings, TV etc etc). So i need a
dynamic microphone with enough power to drive well
my transceiver without too much sensitivity.
I have an old dynamic handy microphone from a CB
transceiver and I put inside a preamplifier on a
small pcboard and it works fine.

Thanks to all for your help.

73

SV2BFI

```
From -7183688297081734719
X-Google-Thread: fc2a5,278c989bbb7f0a3f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.216.145.231 with SMTP id p81mr167337wej.10.1354828923533;
        Thu, 06 Dec 2012 13:22:03 -0800 (PST)
MIME-Version: 1.0
Path: i11ni41534wiw.0!nntp.google.com!goblin1!goblin2!goblin.stu.neva.ru!
aioe.org!.POSTED!not-for-mail
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Making a 2m/70cm + 1.25m diplexer
Date: Thu, 06 Dec 2012 16:22:01 -0500
Organization: Aioe.org NNTP Server
Lines: 38
Message-ID: <fmmck-56AD2A.16220006122012@5ad64b5e.bb.sky.com>
References: <k9pnnr$e5j$1@frotz.eternal-september.org>
NNTP-Posting-Host: MI2Btxx5tC9YSBm8rbr+YA.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
```

In article <k9pnnr$e5j$1@frotz.eternal-september.org>,
 davidmylastname@acm.org (David Griffith) wrote:

> In order to connect a 2m/70cm radio and a 1.25m radio to a triband
> antenna (2m/1.25m/70cm), one requires a triplexer and diplexer. I'd
> like to cut down on the number and size of equipment to do this.
>
> I asked Comet about making a single compact unit that takes 2m/70cm on
> one port and 1.25m on the other. Mick Stwertnik told me that they
> designed and specced it out, but the cost would be a prohibitive
> $200-ish.
>
> So I investigated making my own and found Jim Tonne's Diplexer program.
> I asked him if he could extend the program to allow for designing
> triplexers. He had some hackish solution that sort of worked, but he
> doesn't know the math to do it correctly in the first place.
>
> Where should I go from here?

David-

I take it your 2m/70cm radio has a single input with an internal
diplexer. I use a Comet CFX-324 triplexer, but my Kenwood TM-742 has

three separate inputs.

It seems to me that your radio's input might satisfy the need for a
2m/70cm diplexer. What would happen if you connected your triplexer's
2m and 70cm ports together with a co-ax T?

You might check SWR looking into the T, to see if it was close to 1 to 1
on both bands with the antenna and 1.25m ports terminated.

Rather than using the triplexer/diplexer combination, there might be
less loss if you use a separate antenna for 1.25m, with just a diplexer
for 2m/70cm.

Fred
K4DII

```
From -4893976482619655586
X-Google-Thread: fc2a5,14e7107f35fe7934
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.74.228 with SMTP id x4mr735863pav.24.1354849263662;
        Thu, 06 Dec 2012 19:01:03 -0800 (PST)
Path: s9ni31779pbb.0!nntp.google.com!news.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-14.dc1.easynews.com.POSTED!not-for-mail
From: Arid ace <nonsmoker@freedom.smokes.oil>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wes Hayward hybrid cascode amplifiers from 2007 QST.
Message-ID: <l5l2c856j5eo4jgev15ldt7c3j4o88uqj6@4ax.com>
References: <0c69e395-1d12-46b1-b57c-3f766672faf3@googlegroups.com>
<g3qo98t400pu5t2fg1aq00k92f5qq1pjbn@4ax.com> <30c1e8d9-229d-483b-8a7b-
e7fecc45a667@googlegroups.com> <m0dtb81ukgjrj10sokrq17a862fpoe49b9@4ax.com>
<dac5ec4b-f2aa-4d07-8866-9b3428f54076@googlegroups.com>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Lines: 39
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Thu, 06 Dec 2012 22:00:22 -0500
X-Received-Bytes: 2601
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
```

On Thu, 6 Dec 2012 00:45:17 -0800 (PST), Dana <dana.myers@gmail.com> wrote:

>On Tuesday, December 4, 2012 6:54:15 PM UTC-8, Arid ace wrote:
>
>> My error - the IC mentioned should be SL612C and nowadays it's available from
>>

>> China via eBay:
>>
>> http://www.ebay.com/itm/120922014405?
ssPageName=STRK:MEWNX:IT&_trksid=p3984.m1497.l2649
>>
>> It has a much wider AGC range than the TL026, up to 70 dB IOW higher than the
>>
>> stage gain.
>
>Let's see. SL612, $8+ each. TL026 $1.50 each.
>-3dB bandwidth - SL612 up to maybe 15MHz. TL026 up to 50MHz.
>SL612 AGC range 70dB, gain of 34dB. TL026 AGC range 50dB, gain of 38dB.
>SL612 obsolete. TL026 in production.
>
>An AGC range far in excess of stage gain isn't much use if the stage
>is overloading anyway.
>
>Why again would I consider the SL612? :-)
>
>Dana K6JQ

The data sheet of the TL026 doesn't mention the maximum input signal that can be processed. For the SL612 that is 250 mV rms. Then there's the supply current: less than 5 mA for the SL612 but for the TL026 it's 6 times as much. Not to mention the issue of stability.

For an IF higher than 10 MHz, the SL611 has -3 dB at 80 MHz and for the SL610 that is 120 MHz. On SW, an IF amp with low NF allows for a passive mixer as long as the overall NF stays below ~10 dB. The SL612 has a 3 dB NF and a passive mixer like the VAY1 a loss of ~ 5.5 dB so even with some input filter losses, one can design a radio with high dynamic range, low power consumption and NF <10dB. Who would need a TL026? :-D

Jan

```
From -4330583318272335822
X-Google-Thread: fc2a5,2bce3cc0a58cf090,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,2bce3cc0a58cf090,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.87.234 with SMTP id bb10mr781190pab.36.1354863904994;
        Thu, 06 Dec 2012 23:05:04 -0800 (PST)
MIME-Version: 1.0
Path: s9ni32091pbb.0!nntp.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!novia!news-out.readnews.com!transit3.readnews.com!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
```

Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1353567900@panix.com>
Followup-To: poster
Date: 7 Dec 2012 02:05:01 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 25 Dec 2012 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1354863900@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1354863904 9454 166.84.1.2 (7 Dec 2012 07:05:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 7 Dec 2012 07:05:04 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Bytes: 3548

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted twice monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |

```
 rec.radio.amateur.space                                                   |
```

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

```
From -8793396761441679918
X-Google-Thread: fc2a5,fbcae04e1579e0c6,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.73.169 with SMTP id m9mr976722pav.35.1354930017752;
        Fri, 07 Dec 2012 17:26:57 -0800 (PST)
MIME-Version: 1.0
Received: by 10.50.45.226 with SMTP id q2mr480279igm.0.1354930017690; Fri, 07
 Dec 2012 17:26:57 -0800 (PST)
Path: 6ni32752pbd.1!nntp.google.com!kr7no677083pbb.0!postnews.google.com!
s6g2000pby.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Fri, 7 Dec 2012 17:26:57 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: s6g2000pby.googlegroups.com; posting-host=117.199.242.146;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
NNTP-Posting-Host: 117.199.242.146
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:10.0.2) Gecko/20100101 Firefox/
10.0.2,gzip(gfe)
Message-ID: <b7c18ed6-1d96-442c-9bf9-e08d67d4317f@s6g2000pby.googlegroups.com>
Subject: HOT VIDEOS 2 HOT PEOPLE AND ACTRESSES NEVER SEEN PHOTOS
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Injection-Date: Sat, 08 Dec 2012 01:26:57 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.in/2011/06/real-kiss-hot-videos.html

HOT HOT LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/hot-for-youth.html
SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-101.html

YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.in/2010/06/supr-hot-never-seen.html
SUPER HOT NEVER SEEN
http://hotvideosfreesee.blogspot.in/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/kajal-best-lip-kiss.html

for mopre hot videos
http://allvideosforyouth.blogspot.in/2010/08/super-hot-lip-kiss.html

jobs
http://alljobsaywhere.blogspot.in/

mobile

mobile games free download
http://mobileallinforation.blogspot.in

interview question
java interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/java-interview-questions-and-answers.html
oracle interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/oracle-interview-questions-and-answers.html
hardware interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/hardware-interview-questions-and-answers.html
networking interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/networking-interview-questions-and.html
dotnet interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/dotnet-interview-questions-and-answers.html
c interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/c-interview-questions-and-answers.html
datawarehousing interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/datawarehousing-interview-questions-and.html
sap interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/sap-interview-questions-and-answers.html

all jobs
java jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/java-jobs.html
oracle jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/oracle-jobs.html
sap jobs

http://alljobsandinterviwquestions.blogspot.com/2012/08/sap-jobs.html
hardware jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/hardware-jobs.html
networking jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/networking-jobs.html
datawarehousing jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/datawarehousing-jobs.html
GOOGLE ADSENSE
http://alljobsandinterviwquestions.blogspot.com/2012/08/google-adsense.html

---

```
From 9022082522473284965
X-Google-Thread: fc2a5,14e7107f35fe7934
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.86.130 with SMTP id p2mr1230150paz.22.1354959492639;
        Sat, 08 Dec 2012 01:38:12 -0800 (PST)
Received: by 10.50.151.175 with SMTP id ur15mr782929igb.0.1354959492371; Sat,
 08 Dec 2012 01:38:12 -0800 (PST)
Path: 6ni32752pbd.1!nntp.google.com!kr7no1536806pbb.0!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Sat, 8 Dec 2012 01:38:12 -0800 (PST)
In-Reply-To: <l5l2c856j5eo4jgev15ldt7c3j4o88uqj6@4ax.com>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=98.234.12.80;
posting-account=AZo7EAoAAAD31aSuorv4pjje-S611hHc
NNTP-Posting-Host: 98.234.12.80
References: <0c69e395-1d12-46b1-b57c-3f766672faf3@googlegroups.com>
 <g3qo98t400pu5t2fg1aq00k92f5qq1pjbn@4ax.com> <30c1e8d9-229d-483b-8a7b-
e7fecc45a667@googlegroups.com>
 <m0dtb81ukgjrj10sokrq17a862fpoe49b9@4ax.com> <dac5ec4b-
f2aa-4d07-8866-9b3428f54076@googlegroups.com>
 <l5l2c856j5eo4jgev15ldt7c3j4o88uqj6@4ax.com>
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <9fc2880b-6890-4c2c-8165-1add9ae7db31@googlegroups.com>
Subject: Re: Wes Hayward hybrid cascode amplifiers from 2007 QST.
From: Dana <dana.myers@gmail.com>
Injection-Date: Sat, 08 Dec 2012 09:38:12 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

On Thursday, December 6, 2012 7:00:22 PM UTC-8, Arid ace wrote:

> Who would need a TL026? :-D

Just someone that wants a part that's still in production :-)

Cheers -

```
Dana K6JQ


From -2471210408791663087
X-Google-Thread: 241b302a50,14e7107f35fe7934
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.226.168 with SMTP id rt8mr1508448pbc.8.1354959587274;
        Sat, 08 Dec 2012 01:39:47 -0800 (PST)
Received: by 10.50.0.204 with SMTP id 12mr732960igg.9.1354959587194; Sat, 08
 Dec 2012 01:39:47 -0800 (PST)
Path: 6ni32752pbd.1!nntp.google.com!kr7no1539804pbb.0!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Sat, 8 Dec 2012 01:39:46 -0800 (PST)
In-Reply-To: <l5l2c856j5eo4jgev15ldt7c3j4o88uqj6@4ax.com>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=98.234.12.80;
posting-account=AZo7EAoAAAD31aSuorv4pjje-S611hHc
NNTP-Posting-Host: 98.234.12.80
References: <0c69e395-1d12-46b1-b57c-3f766672faf3@googlegroups.com>
 <g3qo98t400pu5t2fg1aq00k92f5qq1pjbn@4ax.com> <30c1e8d9-229d-483b-8a7b-
e7fecc45a667@googlegroups.com>
 <m0dtb81ukgjrj10sokrq17a862fpoe49b9@4ax.com> <dac5ec4b-
f2aa-4d07-8866-9b3428f54076@googlegroups.com>
 <l5l2c856j5eo4jgev15ldt7c3j4o88uqj6@4ax.com>
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <41e95dcb-aa0c-4f7c-af84-46ccdfb27d40@googlegroups.com>
Subject: Re: Wes Hayward hybrid cascode amplifiers from 2007 QST.
From: Dana <dana.myers@gmail.com>
Injection-Date: Sat, 08 Dec 2012 09:39:47 +0000
Content-Type: text/plain; charset=ISO-8859-1

On Thursday, December 6, 2012 7:00:22 PM UTC-8, Arid ace wrote:

> The data sheet of the TL026 doesn't mention the maximum input signal that can be
>
> processed. For the SL612 that is 250 mV rms.

Actually, the datasheet mentions it - ~200mV.


Dana K6JQ


From 6457896428046476281
X-Google-Thread: 241b302a50,14e7107f35fe7934
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.180.38.239 with SMTP id j15mr1508627wik.0.1355175320063;
```

```
        Mon, 10 Dec 2012 13:35:20 -0800 (PST)
Path: l12ni33023wiv.1!nntp.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
94.232.116.11.MISMATCH!feed.xsnews.nl!border-1.ams.xsnews.nl!newspump.sol.net!
xlned.com!feeder3.xlned.com!news.astraweb.com!border5.a.newsrouter.astraweb.com!
border2.nntp.ams.giganews.com!backlog1.nntp.ams.giganews.com!
backlog1.nntp.dca.giganews.com!border3.nntp.dca.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!news.snarked.org!news.glorb.com!
news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-14.dc1.easynews.com.POSTED!not-for-mail
From: Arid ace <nonsmoker@freedom.smokes.oil>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wes Hayward hybrid cascode amplifiers from 2007 QST.
Message-ID: <l8t7c8l72m56fqmjd5vfg5ahiivog0d08e@4ax.com>
References: <0c69e395-1d12-46b1-b57c-3f766672faf3@googlegroups.com>
<g3qo98t400pu5t2fg1aq00k92f5qq1pjbn@4ax.com> <30c1e8d9-229d-483b-8a7b-
e7fecc45a667@googlegroups.com> <m0dtb81ukgjrj10sokrq17a862fpoe49b9@4ax.com>
<dac5ec4b-f2aa-4d07-8866-9b3428f54076@googlegroups.com>
<l5l2c856j5eo4jgev15ldt7c3j4o88uqj6@4ax.com> <41e95dcb-aa0c-4f7c-
af84-46ccdfb27d40@googlegroups.com>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Lines: 24
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Sat, 08 Dec 2012 21:31:35 -0500
X-Received-Bytes: 2190
Bytes: 2467
X-Original-Bytes: 2332
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
```

On Sat, 8 Dec 2012 01:39:46 -0800 (PST), Dana <dana.myers@gmail.com> wrote:

```
>On Thursday, December 6, 2012 7:00:22 PM UTC-8, Arid ace wrote:
>
>> The data sheet of the TL026 doesn't mention the maximum input signal that can
be
>>
>> processed. For the SL612 that is 250 mV rms.
>
>Actually, the datasheet mentions it - ~200mV.
>
>
>Dana K6JQ
```

With so many data sheet archives online, I could have hit the wrong one. But what didn't fail to get my attention was the remark "Other Characteristics Similar to NE592 and uA733". With those ICs I'm not only familiar but they are from the era when customarily, the equivalent internal diagram was published so uninitiated application engineers could use the IC in a fashion, not intended by the designer. The NE592 and uA733 employ negative feedback which is at odds with

voltage controlled gain - unless the gain control is before the stage(s) with
feedback, and then the S/N under application of feedback deteriorates.
So the TL026 isn't my choice even if it's modern ;-)

Jan

```
From 7591766383261492699
X-Google-Thread: fc2a5,278c989bbb7f0a3f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.180.81.40 with SMTP id w8mr1273877wix.0.1355117278845;
        Sun, 09 Dec 2012 21:27:58 -0800 (PST)
MIME-Version: 1.0
Path: l12ni18603wiv.1!nntp.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
85.12.40.131.MISMATCH!xlned.com!feeder3.xlned.com!feeder.erje.net!
eu.feeder.erje.net!newsfeed.datemas.de!weretis.net!feeder4.news.weretis.net!
news.mixmin.net!aioe.org!.POSTED!not-for-mail
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Making a 2m/70cm + 1.25m diplexer
Date: Mon, 10 Dec 2012 00:27:57 -0500
Organization: Aioe.org NNTP Server
Lines: 15
Message-ID: <fmmck-51C8BE.00275610122012@5ad64b5e.bb.sky.com>
References: <k9pnnr$e5j$1@frotz.eternal-september.org>
<fmmck-56AD2A.16220006122012@5ad64b5e.bb.sky.com>
NNTP-Posting-Host: vMAOryBwZkeFOtMaZhdKtw.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
```

In article <fmmck-56AD2A.16220006122012@5ad64b5e.bb.sky.com>,
Fred McKenzie <fmmck@aol.com> wrote:

> Rather than using the triplexer/diplexer combination, there might be
> less loss if you use a separate antenna for 1.25m, with just a diplexer
> for 2m/70cm.

David-

I was not thinking. With a separate 1.25m antenna, no duplexer would be needed with your radio for the 2m/70cm antenna! That might be the simplest arrangement.

Fred
K4DII

```
From -3186264523190457721
X-Google-Thread: fc2a5,278c989bbb7f0a3f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.180.105.105 with SMTP id gl9mr1290301wib.4.1355120073998;
        Sun, 09 Dec 2012 22:14:33 -0800 (PST)
MIME-Version: 1.0
Path: i11ni87280wiw.0!nntp.google.com!feeder3.cambriumusenet.nl!feed.tweaknews.nl!
217.73.144.44.MISMATCH!feeder.ecngs.de!ecngs!feeder2.ecngs.de!
78.46.240.70.MISMATCH!weretis.net!feeder4.news.weretis.net!eternal-september.org!
feeder.eternal-september.org!mx04.eternal-september.org!news.eternal-
september.org!.POSTED!not-for-mail
From: davidmylastname@acm.org (David Griffith)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Making a 2m/70cm + 1.25m diplexer
Date: Mon, 10 Dec 2012 06:14:33 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 17
Message-ID: <ka3uk9$4nf$1@frotz.eternal-september.org>
References: <k9pnnr$e5j$1@frotz.eternal-september.org>
<fmmck-56AD2A.16220006122012@5ad64b5e.bb.sky.com>
<fmmck-51C8BE.00275610122012@5ad64b5e.bb.sky.com>
Injection-Date: Mon, 10 Dec 2012 06:14:33 +0000 (UTC)
Injection-Info: frotz.eternal-september.org; posting-
host="f04bf7c0de630006de20180128778292";
     logging-data="4847"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+qxZhLV6zPwFA89o9lytYy"
User-Agent: tin/1.9.6-20100522 ("Lochruan") (UNIX) (Linux/2.6.32-5-686 (i686))
Cancel-Lock: sha1:KY96y6/tatgd0q3jwx/pvBCNZ3E=
```

Fred McKenzie <fmmck@aol.com> wrote:
> In article <fmmck-56AD2A.16220006122012@5ad64b5e.bb.sky.com>,
> Fred McKenzie <fmmck@aol.com> wrote:

>> Rather than using the triplexer/diplexer combination, there might be
>> less loss if you use a separate antenna for 1.25m, with just a diplexer
>> for 2m/70cm.

> I was not thinking. With a separate 1.25m antenna, no duplexer would be
> needed with your radio for the 2m/70cm antenna! That might be the
> simplest arrangement.

I've reached the same conclusion. Thanks everybody.

--
David Griffith
davidmylastname@acm.org   <--- Put my last name where it belongs

---

```
From 4334375777399013850
X-Google-Thread: fc2a5,3a071a9312913090,start
X-Google-NewGroupId: yes
```

```
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.72.232 with SMTP id g8mr2288431pav.23.1355120198591;
        Sun, 09 Dec 2012 22:16:38 -0800 (PST)
MIME-Version: 1.0
Path: s9ni37271pbb.0!nntp.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news.glorb.com!feeder.erje.net!eu.feeder.erje.net!eternal-
september.org!feeder.eternal-september.org!mx04.eternal-september.org!
news.eternal-september.org!.POSTED!not-for-mail
From: davidmylastname@acm.org (David Griffith)
Newsgroups: rec.radio.amateur.homebrew
Subject: Swapping the antenna jack on Yaesu FT-7900
Date: Mon, 10 Dec 2012 06:16:38 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 6
Message-ID: <ka3uo6$4nf$2@frotz.eternal-september.org>
Injection-Date: Mon, 10 Dec 2012 06:16:38 +0000 (UTC)
Injection-Info: frotz.eternal-september.org; posting-
host="f04bf7c0de630006de20180128778292";
     logging-data="4847"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+KsM6hatw5CKO6FrKJ4BKH"
User-Agent: tin/1.9.6-20100522 ("Lochruan") (UNIX) (Linux/2.6.32-5-686 (i686))
Cancel-Lock: sha1:TM/RNgXXzsJ0lvsZNm2XDl2BLX4=
Bytes: 1208

Has anyone here successfully replaced the antenna jack on a Yaesu
FT-7900 with an N-connector?  How about for an Alinco DR-235TMKIII?

-- 
David Griffith
davidmylastname@acm.org   <--- Put my last name where it belongs


From -2788307195702606684
X-Google-Thread: fc2a5,cdbca24ed787d0e,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Received: by 10.68.202.68 with SMTP id kg4mr3573946pbc.3.1355184730529;
        Mon, 10 Dec 2012 16:12:10 -0800 (PST)
MIME-Version: 1.0
Received: by 10.50.163.3 with SMTP id ye3mt11412133igb.10.1355184730490; Mon,
 10 Dec 2012 16:12:10 -0800 (PST)
Path: s9ni37311pbb.0!nntp.google.com!kr7no9026401pbb.0!postnews.google.com!
b4g2000pby.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Mon, 10 Dec 2012 16:12:10 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: b4g2000pby.googlegroups.com; posting-host=182.18.191.91; posting-
account=qNIr4QoAAADR2SHAC0WwVUV0i26NCnOm
NNTP-Posting-Host: 182.18.191.91
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:17.0) Gecko/20100101 Firefox/
```

```
17.0,gzip(gfe)
Message-ID: <007d2aba-62d4-42ce-bfbd-06786aa27275@b4g2000pby.googlegroups.com>
Subject: seethamma vakitlo sirimalle chettu songs free download
From: karthik chowdary <karthikchowdary8029@gmail.com>
Injection-Date: Tue, 11 Dec 2012 00:12:10 +0000
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable

Mahesh Babu and Venkatesh=92s upcoming multi stared movie is Seethamma
Vakitlo Sirimalle Chettu. SVSC movie Mahesh and Venkatesh are acting
as brothers. The actresses=92 in SVSC movie is Samantha and Anjali. SVSC
movie is directed by Srikanth Addala. SVSC movie is produced by
successful producer Dil Raju under Sri Venkateswara Productions. SVSC
movie Nazar is playing a role of father for Mahesh and Venkatesh. The
trailer of SVSC movie is awesome. SVSC movie music director is Mickey
J Meyer.

http://www.telugusuperheroes.com/index.php/seethamma-vakitlo-sirimalle-chet=
tu-songs



From 2852491783903956095
X-Google-Thread: fc2a5,e27e8d6b5fff8e4c,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Received: by 10.68.226.168 with SMTP id rt8mr3583230pbc.8.1355184739016;
        Mon, 10 Dec 2012 16:12:19 -0800 (PST)
MIME-Version: 1.0
Received: by 10.50.151.175 with SMTP id ur15mt11492868igb.0.1355184738974;
 Mon, 10 Dec 2012 16:12:18 -0800 (PST)
Path: s9ni32536pbb.0!nntp.google.com!kt20no10079343pbb.1!postnews.google.com!
ah9g2000pbd.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Mon, 10 Dec 2012 16:12:18 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: ah9g2000pbd.googlegroups.com; posting-host=182.18.191.91; posting-
account=qNIr4QoAAADR2SHAC0WwVUV0i26NCnOm
NNTP-Posting-Host: 182.18.191.91
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:17.0) Gecko/20100101 Firefox/
17.0,gzip(gfe)
Message-ID: <2f1f1caa-7b2c-4af5-acf3-539f50b0fbe0@ah9g2000pbd.googlegroups.com>
Subject: svsc songs free download
From: karthik chowdary <karthikchowdary8029@gmail.com>
Injection-Date: Tue, 11 Dec 2012 00:12:19 +0000
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable

Mahesh Babu and Venkatesh=92s upcoming multi stared movie is Seethamma
Vakitlo Sirimalle Chettu. SVSC movie Mahesh and Venkatesh are acting
as brothers. The actresses=92 in SVSC movie is Samantha and Anjali. SVSC
movie is directed by Srikanth Addala. SVSC movie is produced by
```

successful producer Dil Raju under Sri Venkateswara Productions. SVSC movie Nazar is playing a role of father for Mahesh and Venkatesh. The trailer of SVSC movie is awesome. SVSC movie music director is Mickey J Meyer.

http://www.telugusuperheroes.com/index.php/seethamma-vakitlo-sirimalle-chet=
tu-songs

```
From 5056516840612166063
X-Google-Thread: fc2a5,8493a0615853480b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.84.100 with SMTP id x4mr40331pay.43.1355275144722;
        Tue, 11 Dec 2012 17:19:04 -0800 (PST)
MIME-Version: 1.0
Received: by 10.50.222.132 with SMTP id qm4mr4754735igc.5.1355275144544; Tue,
 11 Dec 2012 17:19:04 -0800 (PST)
Path: s9ni40361pbb.0!nntp.google.com!kr7no11954954pbb.0!postnews.google.com!
i7g2000pbf.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Tue, 11 Dec 2012 17:19:04 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: i7g2000pbf.googlegroups.com; posting-host=117.199.246.40; posting-
account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
NNTP-Posting-Host: 117.199.246.40
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:10.0.2) Gecko/20100101 Firefox/
10.0.2,gzip(gfe)
Message-ID: <7fa8681d-bb4c-4af5-aa07-23ea3a14843a@i7g2000pbf.googlegroups.com>
Subject: SEXY VIDEOS YOU MUST SEE MASALA HOT PHOTOS
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Injection-Date: Wed, 12 Dec 2012 01:19:04 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.in/

ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.in/2010/09/hot-lip-kiss-135.html

ALL JOBS SITES FREE SEE

http://jobstwo.blogspot.in/

HOT VIDEOS

http://hotvideotoou.blogspot.in/2011/01/kiss-videos.html

hot lip kiss

http://hotvidos.blogspot.in/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.in/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.in/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.in/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.in/2010/07/tamil-hot-videos.html

```
From -3460562781189375856
X-Google-Thread: fc2a5,14e7107f35fe7934
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.89.74 with SMTP id bm10mr98966pab.19.1355361815992;
        Wed, 12 Dec 2012 17:23:35 -0800 (PST)
Received: by 10.50.106.225 with SMTP id gx1mr6392814igb.8.1355361815806; Wed,
 12 Dec 2012 17:23:35 -0800 (PST)
Path: 6ni41444pbd.1!nntp.google.com!kr7no14367427pbb.0!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Wed, 12 Dec 2012 17:23:35 -0800 (PST)
In-Reply-To: <l8t7c8l72m56fqmjd5vfg5ahiivog0d08e@4ax.com>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=98.234.12.80;
posting-account=AZo7EAoAAAD31aSuorv4pjje-S611hHc
NNTP-Posting-Host: 98.234.12.80
References: <0c69e395-1d12-46b1-b57c-3f766672faf3@googlegroups.com>
 <g3qo98t400pu5t2fg1aq00k92f5qq1pjbn@4ax.com> <30c1e8d9-229d-483b-8a7b-
e7fecc45a667@googlegroups.com>
 <m0dtb81ukgjrj10sokrq17a862fpoe49b9@4ax.com> <dac5ec4b-
f2aa-4d07-8866-9b3428f54076@googlegroups.com>
 <l5l2c856j5eo4jgev15ldt7c3j4o88uqj6@4ax.com> <41e95dcb-aa0c-4f7c-
af84-46ccdfb27d40@googlegroups.com>
 <l8t7c8l72m56fqmjd5vfg5ahiivog0d08e@4ax.com>
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <af42ea30-040d-4445-82b2-33bef9531e43@googlegroups.com>
Subject: Re: Wes Hayward hybrid cascode amplifiers from 2007 QST.
From: Dana <dana.myers@gmail.com>
Injection-Date: Thu, 13 Dec 2012 01:23:35 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

On Saturday, December 8, 2012 6:31:35 PM UTC-8, Arid ace wrote:

> With so many data sheet archives online, I could have hit the wrong one.

Since the TL026 is a currently-produced part by TI, there's no need to sift through online archives. Just go to http://www.ti.com/ and look up the part number.

> But what didn't fail to get my attention was the remark "Other
> Characteristics Similar to NE592 and uA733".

Fair enough. Of course, the TL026 *isn't* either of those parts, and the statement suggests to me that the TL026 has input and output characteristics similar to those non-AGC parts - relatively easy to use. Nothing at all about internal architecture. Perhaps you're reading something that isn't in the datasheet at all. Given how cheap the TL026 is, perhaps you might try one instead of an SL612 and see if your assumption is true.

But, seriously, you're quite passionate about the SL612 and that's a wonderful thing.

Cheers,
Dana K6JQ

From -276447087969826324
X-Google-Thread: fc2a5,14e7107f35fe7934
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.78.132 with SMTP id b4mr299575pax.18.1355372258547;
        Wed, 12 Dec 2012 20:17:38 -0800 (PST)
Path: 6ni42030pbd.1!nntp.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-11.dc1.easynews.com.POSTED!not-for-mail
From: Arid ace <nonsmoker@freedom.smokes.oil>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wes Hayward hybrid cascode amplifiers from 2007 QST.
Message-ID: <fvjic89i86nrh6d1hspr97e4snb0rcdb36@4ax.com>
References: <0c69e395-1d12-46b1-b57c-3f766672faf3@googlegroups.com> <g3qo98t400pu5t2fg1aq00k92f5qq1pjbn@4ax.com> <30c1e8d9-229d-483b-8a7b-e7fecc45a667@googlegroups.com> <m0dtb81ukgjrj10sokrq17a862fpoe49b9@4ax.com> <dac5ec4b-f2aa-4d07-8866-9b3428f54076@googlegroups.com> <l5l2c856j5eo4jgev15ldt7c3j4o88uqj6@4ax.com> <41e95dcb-aa0c-4f7c-af84-46ccdfb27d40@googlegroups.com> <l8t7c8l72m56fqmjd5vfg5ahiivog0d08e@4ax.com> <af42ea30-040d-4445-82b2-33bef9531e43@googlegroups.com>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Lines: 44
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Wed, 12 Dec 2012 23:17:23 -0500
X-Received-Bytes: 3187
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Wed, 12 Dec 2012 17:23:35 -0800 (PST), Dana <dana.myers@gmail.com> wrote:

```
>On Saturday, December 8, 2012 6:31:35 PM UTC-8, Arid ace wrote:
>
>> With so many data sheet archives online, I could have hit the wrong one.
>
>Since the TL026 is a currently-produced part by TI, there's no need to
>sift through online archives. Just go to http://www.ti.com/ and look
>up the part number.

What remains is the large current consumption - typ. 22 mA.
For the SL612 the typ. value is 3.5 mA.

>
>> But what didn't fail to get my attention was the remark "Other
>> Characteristics Similar to NE592 and uA733".
>
>Fair enough. Of course, the TL026 *isn't* either of those parts,
>and the statement suggests to me that the TL026 has input and output
>characteristics similar to those non-AGC parts - relatively easy to use.
>Nothing at all about internal architecture. Perhaps you're reading
>something that isn't in the datasheet at all. Given how cheap the TL026
>is, perhaps you might try one instead of an SL612 and see if your
>assumption is true.

Cost is a nonissue as is production. Another 30 mA just for the IF amplifier of
a noise blanker is an issue though.
>
>But, seriously, you're quite passionate about the SL612 and
>that's a wonderful thing.
>
>Cheers,
>Dana K6JQ

No, for the noise blanker it's the best solution. The IF minus impulse noise
will be processed by another no longer available IC, the TCA440. Its mixer and
IF combined have an AGC range of ~100 dB with max input to the mixer, 500 mV
rms, current consumption ~11mA. With the 30 dB AGC range of the 2nd mixer, > 120
dB AGC range. That mixer will convert to 25 KHz, a nice value for razor-sharp
notch filters and ideally working (synchronous) demodulators. Why be satisfied
with less when it's so easy to design a radio that functions well with input
signals between 0.1 uV and 100 mV and yet has a low power consumption? ;-)

Jan



From -4451816305651920247
X-Google-Thread: 241b302a50,7fb686291678318e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.218.2 with SMTP id ho2mr3025897qab.8.1355497672906;
        Fri, 14 Dec 2012 07:07:52 -0800 (PST)
Received: by 10.49.38.194 with SMTP id i2mr997170qek.30.1355497672864; Fri, 14
 Dec 2012 07:07:52 -0800 (PST)
```

```
Path: k2ni45qap.0!nntp.google.com!fc2no725069qab.0!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Fri, 14 Dec 2012 07:07:52 -0800 (PST)
In-Reply-To: <k7pr23$77i$1@reader1.panix.com>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=68.42.84.213;
posting-account=gKO6gggAAADuahxaDQNhnPGBKg0tX5Ay
NNTP-Posting-Host: 68.42.84.213
References: <k7pr23$77i$1@reader1.panix.com>
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <e6c9ca28-b447-4429-8c4b-88b008a5c045@googlegroups.com>
Subject: Re: Transformer Oil Suppliers
From: ray_psi@yahoo.com
Injection-Date: Fri, 14 Dec 2012 15:07:52 +0000
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

If the nuke power plants can store nuke waste on site I should be able to s=
tore PCB's on site in my transformers and capacitors, PCB's are the best di=
electric insulator since sliced bread and have been around since the 1930's=
 banning PCB's is bull, containment is the answer.

Viet Nam still uses PCB's I can get them there.

73 OM
de n8zu

Ooren Sunday, November 11, 2012 10:39:48 PM UTC-5, David Lesher wrote:
> We need less than a gallon of transformer oil for coolant.
>=20
> Does anyone sell such small quantities?
>=20
>=20
>=20
>=20
>=20
> --=20
>=20
> A host is a host from coast to coast.................wb8foz@nrk.com
>=20
> & no one will talk to a host that's close........[v].(301) 56-LINUX
>=20
> Unless the host (that isn't close).........................pob 1433
>=20
> is busy, hung or dead....................................20915-1433



From -2456129389019213191
X-Google-Thread: 241b302a50,14e7107f35fe7934
X-Google-Attributes: gid241b302a50,public,usenet
```

```
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.205.65 with SMTP id fp1mr3745256qab.4.1355530138367;
        Fri, 14 Dec 2012 16:08:58 -0800 (PST)
Received: by 10.49.63.164 with SMTP id h4mr1272109qes.39.1355530138343; Fri,
 14 Dec 2012 16:08:58 -0800 (PST)
Path: k2ni7qap.0!nntp.google.com!fc2no832007qab.0!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Fri, 14 Dec 2012 16:08:58 -0800 (PST)
In-Reply-To: <0c69e395-1d12-46b1-b57c-3f766672faf3@googlegroups.com>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=68.42.84.213;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
NNTP-Posting-Host: 68.42.84.213
References: <0c69e395-1d12-46b1-b57c-3f766672faf3@googlegroups.com>
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <db613951-6c72-434f-b1e6-78cd0a9ecf0e@googlegroups.com>
Subject: Re: Wes Hayward hybrid cascode amplifiers from 2007 QST.
From: raypsi <RBorowiak@gmail.com>
Injection-Date: Sat, 15 Dec 2012 00:08:58 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

On Tuesday, November 6, 2012 5:18:14 AM UTC-5, clifford wright wrote:

> Has anyone else tried these circuits?
>
> I have built 2 examples, a 9 MHZ AGC controlled amplifier and a 20 dB wideband amp for a noise cancelling system.
>
> BIG problems! The diode string in the source of the FET always biases the J310 OFF.

According to the spec sheet curves:
The j310 gets turned off with a bias of 3.7vdc,

Quiescent of 3ma that is called for gets set at 3.3vdc bias.

Meaning the resistor in series with the diodes is going to drop .54vdc at 3ma.

so it is going to fly on the Vdrop of the diodes Vdrop that changes with temp also? Might work in a spice sim but not in real life.

> Result, no gain or a loss!!!
>
> It took me an hour or two to twig what was going on. The trouble is that I cannot see how it can possibly work when the gate is referenced to ground. It is equivalent biasing off a valve!

>
> Not only that, but the AGC circuit published at the same time had extreme instability in the front end of the AGC amplifier. I am a VERY experienced electronics person (60 years) and was unable to find any obvious reason for this.
>

Yeah this is a cascode amplifier, great for eliminating miller effect, and gain that is the gain of the bipolar times the gain of the fet. Another reason they swamp the gate with 2200 ohms with all that gain. well except in your case.

> SO Now I have actually began to lose faith in one of my favourite engineers.
>
> Or, have I done something really stupid in my old age.
>
> FYI the circuits were built "dead bug" style with extensive shielding and full decoupling.

Lastly Since they are using diode drops for bias I would have used a TL431 precision and temp compensated regulator, would be alot easier to set that 3ma quiescent current.

73 OM
de n8zu

```
From 2749315644522708533
X-Google-Thread: 11480d,cdb6072909f952a8,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,cdb6072909f952a8,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,cdb6072909f952a8,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,cdb6072909f952a8,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid7221ecd0f7,gid241b302a50,gide721ae2bf6,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.78.132 with SMTP id b4mr2119871pax.18.1355554804550;
        Fri, 14 Dec 2012 23:00:04 -0800 (PST)
MIME-Version: 1.0
Path: 6ni45783pbd.1!nntp.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news.glorb.com!news-out.readnews.com!transit3.readnews.com!
panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1354345200@panix.com>
Followup-To: poster
Date: 15 Dec 2012 02:00:03 -0500
Organization: rec.radio.amateur.moderated Moderation Team
```

Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 02 Jan 2013 02:00:02 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1355554802@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1355554804 10273 166.84.1.2 (15 Dec 2012 07:00:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 15 Dec 2012 07:00:04 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Bytes: 3883

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted twice monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. After a successful trial |
period (90 days, through early July 2009), we decided to adopt this |
change permanently. |

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.

```
From 3271629816158296557
X-Google-Thread: fc2a5,17c33c3b2be1bea6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.181.13.205 with SMTP id fa13mr231145wid.3.1355800787343;
        Mon, 17 Dec 2012 19:19:47 -0800 (PST)
MIME-Version: 1.0
Path: l12ni142175wiv.1!nntp.google.com!proxad.net!feeder1-2.proxad.net!
news.mixmin.net!aioe.org!.POSTED!not-for-mail
From: "garyr" <garyr@fidalgo.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: All Digital Receiver (or nearly all digital)
Date: Mon, 17 Dec 2012 19:18:06 -0800
Organization: Aioe.org NNTP Server
Lines: 58
Message-ID: <kaoncg$tgh$1@speranza.aioe.org>
References: <k8jo27$rds$2@dont-email.me>
<WYudnRMyfJA-5zPNnZ2dnUVZ5j2dnZ2d@giganews.com> <k8p0i5$7ec$1@dont-email.me>
NNTP-Posting-Host: LrgSn+ebSilZpPBQbU32uw.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
X-Notice: Filtered by postfilter v. 0.8.2
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-Priority: 3
X-MSMail-Priority: Normal
```

"rickman" <gnuarm@gmail.com> wrote in message
news:k8p0i5$7ec$1@dont-email.me...

> On 11/22/2012 2:18 PM, coffelt2 wrote:
>>
>> Yikes! Here you over here too!
>
> Yeah, I think this is where I should be. The other group sounds like it
> is more about bought equipment than homemade.
>
>
>> Loop antennas sure have more "capture area" than ferrite loopsticks,

>> using "seat of the pants" engineering, I always wondered just how the
>> marked directivity of the loop antenna could be put to use in a "dual
>> Diversity"
>> scheme for noise cancelling. It was used (and perhaps still is) for
>> "selective
>> fading" and interference rejection on large, HF antenna farms.
>> Marine and aircraft beacon band receivers used both rotatable loops
>> and loopsticks in conjunction with a "sense" antenna for enhanced
>> directional reception.
>> I'm over my head, so I'm bailing. Please keep us informed of progress!
>>
>> Old Chief Lynn
>
> It seems to be the null that is highly directional. I expect when they
> used loops for DF they turned the antenna until the signal faded and used
> the null as the directional part.
>
> I ordered some RG-6 with a solid copper center conductor. The shield is
> aluminum so I'm hoping that doesn't hurt. A number of sources talk about
> the importance of keeping the conductor resistance low to maximize the Q
> of the tuning. I need to do my calculations and select the loop size and
> number of turns. I don't think I want to make it very large, so I'm
> hoping more turns will compensate for a modest size.
>
> I'll let you know. This group is a little quiet, but that's better than
> all the noise in some other groups. As I'm sure you know, what is
> important is not the signal level, but the SNR!
>
> Rick

"Understanding Digital Signal Processing" by Richard G. Lyons is a good
source of information.

If you plan to do the FPGA code yourself check out: www.myhdl.org

For the antenna consider: www.febo.com/time-freq/wwvb/antenna

At 60 KHz RG-58 would be as good as RG-6 for a loop antenna and much easier
to work with. PCV pipe is a good material for the frame. email me directly
and I'll send you a photo of a 1m VLF antenna I made.

Unless you are located in Boulder, CO you will probably need an analog
amplifier.

From -3164565422650342626
X-Google-Thread: 241b302a50,17c33c3b2be1bea6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit

X-Received: by 10.180.81.40 with SMTP id w8mr4430341wix.0.1356112501046;
        Fri, 21 Dec 2012 09:55:01 -0800 (PST)
Path: i11ni247314wiw.0!nntp.google.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!194.109.133.81.MISMATCH!newsfeed.xs4all.nl!
newsfeed2.news.xs4all.nl!xs4all!newspeer1.nac.net!news.mi.ras.ru!goblin2!
goblin.stu.neva.ru!aioe.org!eternal-september.org!feeder.eternal-september.org!
mx04.eternal-september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: All Digital Receiver (or nearly all digital)
Date: Tue, 18 Dec 2012 14:56:42 -0500
Organization: A noiseless patient Spider
Lines: 69
Message-ID: <kaqhps$um6$1@dont-email.me>
References: <k8jo27$rds$2@dont-email.me>
<WYudnRMyfJA-5zPNnZ2dnUVZ5j2dnZ2d@giganews.com> <k8p0i5$7ec$1@dont-email.me>
<kaoncg$tgh$1@speranza.aioe.org>
Mime-Version: 1.0
Injection-Date: Tue, 18 Dec 2012 19:56:45 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="49a196cbe787c88c104531363b198d66";
     logging-data="31430"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/7W53lrGwrBOmzuhNTPtWU"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/12.0.1
In-Reply-To: <kaoncg$tgh$1@speranza.aioe.org>
Cancel-Lock: sha1:dRKE8W3JZW2RZ3TeMCK04riTVp8=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 12/17/2012 10:18 PM, garyr wrote:

> "Understanding Digital Signal Processing" by Richard G. Lyons is a good source of information.
>
> If you plan to do the FPGA code yourself check out: www.myhdl.org
>
> For the antenna consider: www.febo.com/time-freq/wwvb/antenna
>
> At 60 KHz RG-58 would be as good as RG-6 for a loop antenna and much easier to work with. PCV pipe is a good material for the frame. email me directly and I'll send you a photo of a 1m VLF antenna I made.
>
> Unless you are located in Boulder, CO you will probably need an analog amplifier.

Hi Gary,

Thanks for the info. I am familiar with Richard's book. He seems like a good guy and will provide errata for anyone who has bought his book. I am familiar with DSP in general and digital receivers specifically. I have most of that part of the design analyzed enough to begin coding.

It is the ADC that I have had some trouble analyzing. I have been planning to construct a Sigma-Delta converter in the FPGA. Turns out this might be a little power hungry and I won't be able to use the special dithering that shapes the noise. My primary goal is to do this entire project with very, very little power consumption. If I can get a strong enough signal I can just use an LVDS input without the integration of a Sigma-Delta converter, but I won't know until I get some of this built and tested.

I am very experienced with HDL so I should be ok there.

I have found any number of sites that talk about loop antenna construction, but most don't really explain how to analyze them. I have finally cobbled together a good picture of the technical aspects from a number of web sites and have an antenna plan. I am looking at using 50 feet of RG-6 with copper inner conductor to optimize the Q. My initial pass is a compromise between optimizing the signal strength and making the final unit easy to construct and support. It will be 8 turns on 2 foot diameter wooden spokes. I expect the stiffness of the RG-6 to help support the cable. This would likely be a decent design up to four foot diameter.

In the end I may find I can use a ferrite loop. But the signal strengths I have seen from commercial ferrite antennas do not seem to be good enough, around 8 uV for 100uV/m field strength which is about what I expect to see here on the east coast.

As to the amp, we will see. I have an equation to predict signal strength at the antenna output and I am expecting a decent signal level if I have a good Q and transformer couple the output. Total gain (Q and transformer) over an untuned antenna will approach 10,000.

But there is many a slip between cup and lip. I hope to make some progress on this over the holidays and have some test results.

Can you explain why you think RG-58 will be as good as the RG-6? The inner conductor of RG-6 has only a small impact from skin effect, I think it is around 21%. At 32 mil the inner conductor of RG-58 (compared to 40 mil for RG-6) will have even less impact from skin effect, but will have a higher resistance and so a lower Q. The capacitance per foot is nearly twice that of RG-6 as well although I'm still not clear on the specific details of this effect. I believe higher capacitance will lower the self resonant frequency although I don't expect this to be a problem in my application.

Rick

```
From -3674659371591528427
X-Google-Thread: 241b302a50,17c33c3b2be1bea6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
X-Received: by 10.180.94.8 with SMTP id cy8mr5402518wib.1.1356259712684;
        Sun, 23 Dec 2012 02:48:32 -0800 (PST)
MIME-Version: 1.0
Path: i11ni267725wiw.0!nntp.google.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!85.12.40.130.MISMATCH!xlned.com!feeder1.xlned.com!
newsfeed.xs4all.nl!newsfeed2.news.xs4all.nl!xs4all!newspeer1.nac.net!
news.mi.ras.ru!goblin-spool!goblin2!goblin.stu.neva.ru!aioe.org!.POSTED!not-for-
mail
From: "garyr" <garyr@fidalgo.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: All Digital Receiver (or nearly all digital)
Date: Wed, 19 Dec 2012 07:26:24 -0800
Organization: Aioe.org NNTP Server
Lines: 104
Message-ID: <kasmb9$ktu$1@speranza.aioe.org>
References: <k8jo27$rds$2@dont-email.me>
<WYudnRMyfJA-5zPNnZ2dnUVZ5j2dnZ2d@giganews.com> <k8p0i5$7ec$1@dont-email.me>
<kaoncg$tgh$1@speranza.aioe.org> <kaqhps$um6$1@dont-email.me>
NNTP-Posting-Host: LrgSn+ebSilZpPBQbU32uw.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
X-Notice: Filtered by postfilter v. 0.8.2
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-Priority: 3
X-MSMail-Priority: Normal


"rickman" <gnuarm@gmail.com> wrote in message
news:kaqhps$um6$1@dont-email.me...
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http://www.c-max-time.com/products/showProduct.php?id=2
http://www.pvelectronics.co.uk/index.php?main_page=product_info&products_id=7
http://www.ntp-time-server.com/wwvb-receiver/wwvb-receiver.htm

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From 8723164925019038639
X-Google-Thread: fc2a5,17c33c3b2be1bea6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.74.79 with SMTP id r15mr2457501wiv.4.1355950304114;
        Wed, 19 Dec 2012 12:51:44 -0800 (PST)
Path: l12ni159009wiv.1!nntp.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!ecngs!feeder2.ecngs.de!feeder.erje.net!eu.feeder.erje.net!
eternal-september.org!feeder.eternal-september.org!mx04.eternal-
september.org!.POSTED!not-for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: All Digital Receiver (or nearly all digital)
Date: Wed, 19 Dec 2012 15:51:30 -0500
Organization: A noiseless patient Spider
Lines: 80
Message-ID: <kat9cu$imp$1@dont-email.me>
References: <k8jo27$rds$2@dont-email.me>
<WYudnRMyfJA-5zPNnZ2dnUVZ5j2dnZ2d@giganews.com> <k8p0i5$7ec$1@dont-email.me>
<kaoncg$tgh$1@speranza.aioe.org> <kaqhps$um6$1@dont-email.me>
<kasmb9$ktu$1@speranza.aioe.org>
Mime-Version: 1.0
Injection-Date: Wed, 19 Dec 2012 20:51:43 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-
host="4c7f17f6198e41a302273f732354f603";

```
     logging-data="19161"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19I+k8pHIUN8Hb9chHlAYSe"
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
In-Reply-To: <kasmb9$ktu$1@speranza.aioe.org>
Cancel-Lock: sha1:nZv7I3yXzTC2Cr/LCz1AjRqAFw0=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 12/19/2012 10:26 AM, garyr wrote:

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> http://www.c-max-time.com/products/showProduct.php?id=2
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Thanks for discussing this with me. I like to bounce ideas off of other people.

Rick

```
From 8608934318974036539
X-Google-Thread: 241b302a50,17c33c3b2be1bea6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.100.74 with SMTP id ew10mr4778525wib.7.1356362502036;
        Mon, 24 Dec 2012 07:21:42 -0800 (PST)
Path: l12ni214253wiv.1!nntp.google.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!193.141.40.65.MISMATCH!npeer.de.kpn-eurorings.net!npeer-
ng0.de.kpn-eurorings.net!xlned.com!feeder1.xlned.com!newsfeed.xs4all.nl!
newsfeed1.news.xs4all.nl!xs4all!newspeer1.nac.net!news.mi.ras.ru!goblin1!goblin2!
goblin.stu.neva.ru!news.karotte.org!news2.arglkargh.de!news.glorb.com!news-
out.readnews.com!transit3.readnews.com!panix!rram.panix.com!robomod!not-for-mail
From: rickman <gnuarm@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.moderated
```

Subject: Re: All Digital Receiver (or nearly all digital)
Date: Wed, 19 Dec 2012 16:05:07 EST
Organization: A noiseless patient Spider
Lines: 96
Approved: RRAM Approval Key <rram-approval-key@panix.com>
Message-ID: <kat9fp$imp$2@dont-email.me>
References: <k8jo27$rds$2@dont-email.me>
<WYudnRMyfJA-5zPNnZ2dnUVZ5j2dnZ2d@giganews.com> <k8p0i5$7ec$1@dont-email.me>
<kaoncg$tgh$1@speranza.aioe.org> <kaqhps$um6$1@dont-email.me>
<kasmb9$ktu$1@speranza.aioe.org> <kat9cu$imp$1@dont-email.me>
NNTP-Posting-Host: panix6.panix.com
Mime-Version: 1.0
X-Trace: reader1.panix.com 1355951108 5319 166.84.1.6 (19 Dec 2012 21:05:08 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 19 Dec 2012 21:05:08 +0000 (UTC)
X-RRAM-Policy: http://www.panix.com/~rram/usenet/rram/index.html
X-RRAM-Info-1: Send submissions to rec-radio-amateur-moderated@panix.com
X-RRAM-Info-2: Send technical complaints to rec-radio-amateur-moderated-request@panix.com
X-RRAM-Info-3: Send complaints about policy to rec-radio-amateur-moderated-request@panix.com
X-RRAM-Info-4: GnuPG 1.4.5 Public Key at http://www.panix.com/~rram/gpg.html
X-Comment-1: The moderators do not necessarily agree or disagree with this article.
X-Comment-2: Moderators do not verify the accuracy of posted information.
X-Comment-3: Acceptance does not convey approval of any external references.
X-Robomod: STUMP, ichudov@algebra.com (Igor Chudov), C++/Perl/Unix Consulting
X-Moderation-1: Hassle-Free commercial hosting of moderation sites available
X-Moderation-2: See http://www.algebra.com/~ichudov/stump
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:12.0) Gecko/20120428 Thunderbird/12.0.1
X-Auth-Sender: U2FsdGVkX1/7b+d2ypgYVZlVPOoz/mVFECXf1oX6ng0=
Cancel-Lock: sha1:DrvWN+MzF6uaAS0cw6gpaFf1x9Y=
X-Auth: PGPMoose V2.0 PGP rec.radio.amateur.moderated
 iJwEAQECAAYFAlDSLAMACgkQSO8RITXCfvtPZgP/Uanejv3ywRpW0QCBR2wY3JtC
 xLHrs858Y20mkRNV+Gj8wxK5P9G++ei0m6kEcuR2yq6s7OezjW6JlEnrLLK3GirL
 PSc05Y4uaI/iuesuWDeepj366nD/UzinhrLBbh+c9DqW/hUqvfGqQ/vvTbAJZQAh
 lzCJghRsKHFLhtLmO70=
 =QwUY
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

I thought I would cross post this to rec.radio.amateur.moderated. They
have made a number of announcements about this and seem to be
encouraging the practice.

Rick

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```
From 66905330581391299
X-Google-Thread: 241b302a50,b09ffcd5f8138fbc,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.94.8 with SMTP id cy8mr9961082wib.1.1356840851958;
        Sat, 29 Dec 2012 20:14:11 -0800 (PST)
MIME-Version: 1.0
Path: l12ni269427wiv.1!nntp.google.com!feeder3.cambriumusenet.nl!
feed.tweaknews.nl!85.12.40.130.MISMATCH!xlned.com!feeder1.xlned.com!
newsfeed.xs4all.nl!newsfeed3.news.xs4all.nl!xs4all!border4.nntp.ams.giganews.com!
border2.nntp.ams.giganews.com!border3.nntp.ams.giganews.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!weretis.net!
feeder1.news.weretis.net!newsfeed.CARNet.hr!news.glorb.com!usenet.stanford.edu!
panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
```

io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1354863900@panix.com>
Followup-To: poster
Date: 22 Dec 2012 02:05:01 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Jan 2013 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1356159900@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1356159903 22516 166.84.1.2 (22 Dec 2012 07:05:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 22 Dec 2012 07:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted twice monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |

rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

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From -5274789103309874775
X-Google-Thread: fc2a5,3bef9343a33016bc,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
X-Received: by 10.224.198.196 with SMTP id ep4mr13761529qab.3.1356693062822;
        Fri, 28 Dec 2012 03:11:02 -0800 (PST)
Received: by 10.49.75.195 with SMTP id e3mr5109320qew.24.1356693062800; Fri,
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Date: Fri, 28 Dec 2012 03:11:02 -0800 (PST)
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Organization: American Radio Relay League
Lines: 24
Approved: RRAM Approval Key <rram-approval-key@panix.com>, RRI Admin <rec-radio-
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In my haste to get the last newsletter out, I forgot one important item.

During the last Nebraska ARRL State Convention, Elmer Squad Leader and Assistant Section Manager Dar Piatt, W9HZC, donated one of his qrp projects to Harold Kramer, WJ1B, Chief Operating Officer of the ARRL. Harold said he would display it at ARRL HQ.

Imagine Dar's surprise and delight when he saw his "ham can" version of a RockMite QRP transciever on the cover of the January 2013 issue of QST! Dar was given full credit in the cover description on page 5.

Congratulations, Dar! That's one small can for a ham and one giant leap for qrp.

73, Art K0AIZ

ARRL Nebraska Section
Section Manager: Arthur I Zygielbaum, K0AIZ
k0aiz@arrl.org

From -6350479004103468040

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X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.217.69 with SMTP id ow5mr5632940pbc.0.1356745789811;
        Fri, 28 Dec 2012 17:49:49 -0800 (PST)
MIME-Version: 1.0
Received: by 10.50.106.225 with SMTP id gx1mr11980960igb.8.1356745789772; Fri,
 28 Dec 2012 17:49:49 -0800 (PST)
Path: 6ni67770pbd.1!nntp.google.com!kr7no3210044pbb.0!postnews.google.com!
lb9g2000pbb.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Fri, 28 Dec 2012 17:49:49 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: lb9g2000pbb.googlegroups.com; posting-host=117.199.242.161;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
```

```
NNTP-Posting-Host: 117.199.242.161
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:17.0) Gecko/20100101 Firefox/
17.0,gzip(gfe)
Message-ID: <2b8e8764-03c8-4b4e-aaee-c4e5f3a3b69e@lb9g2000pbb.googlegroups.com>
Subject: HOT PEOPLE HOT AND SEXY VIDEOS FOR U SEE AND ENJOY
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Injection-Date: Sat, 29 Dec 2012 01:49:49 +0000
Content-Type: text/plain; charset=ISO-8859-1

     VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.in/2011/06/real-kiss-hot-videos.html

  HOT HOT LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/hot-for-youth.html
SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-101.html
YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.in/2010/06/supr-hot-never-seen.html
SUPER HOT NEVER SEEN
http://hotvideosfreesee.blogspot.in/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/kajal-best-lip-kiss.html

for mopre hot videos
http://allvideosforyouth.blogspot.in/2010/08/super-hot-lip-kiss.html

     jobs
http://alljobsaywhere.blogspot.in/

              mobile

mobile games free download
http://mobileallinforation.blogspot.in


 interview question
java interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/java-interview-questions-
and-answers.html
oracle interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/oracle-interview-
questions-and-answers.html
hardware interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/hardware-interview-
questions-and-answers.html
networking interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/networking-interview-
questions-and.html
dotnet interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/dotnet-interview-
```

questions-and-answers.html
c interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/c-interview-questions-and-answers.html
datawarehousing interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/datawarehousing-interview-questions-and.html
sap interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/sap-interview-questions-and-answers.html

all jobs
java jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/java-jobs.html
oracle jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/oracle-jobs.html
sap jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/sap-jobs.html
hardware jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/hardware-jobs.html
networking jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/networking-jobs.html
datawarehousing jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/datawarehousing-jobs.html
GOOGLE ADSENSE
http://alljobsandinterviwquestions.blogspot.com/2012/08/google-adsense.html

---

```
From 19370824014296193
X-Google-Thread: 241b302a50,677b5a888b7557d3,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.24.130 with SMTP id u2mr9147633wif.6.1356952663206;
        Mon, 31 Dec 2012 03:17:43 -0800 (PST)
Path: l12ni275079wiv.1!nntp.google.com!goblin3!goblin2!goblin.stu.neva.ru!xlned.com!feeder7.xlned.com!news2.euro.net!209.197.12.246.MISMATCH!nx02.iad01.newshosting.com!newshosting.com!news-out.readnews.com!transit3.readnews.com!panix!rri.panix.com!robomod!not-for-mail
From: rec-radio-info-request@panix.com (SolderSmoke via rec.radio.info Admin)
Newsgroups: 
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.info
Subject: SolderSmoke Podcast for Monday 31 December 2012
Followup-To: 
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Date: Mon, 31 Dec 2012 06:17:42 EST
Organization: SolderSmoke
Lines: 12
```

```
Approved: RRI Admin <rec-radio-info-request@panix.com>
Message-ID: <f46d0447f168f0d40504d224284f@google.com>
NNTP-Posting-Host: panix6.panix.com
Mime-Version: 1.0
X-Trace: reader1.panix.com 1356952662 27250 166.84.1.6 (31 Dec 2012 11:17:42 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 31 Dec 2012 11:17:42 +0000 (UTC)
X-RRI-Policy: http://www.panix.com/~rram/usenet/rri/index.html
X-RRI-Info-1: Send submissions to             rec-radio-info@panix.com
X-RRI-Info-2: Send technical complaints to    rec-radio-info-request@panix.com
X-RRI-Info-3: Send complaints about policy to rec-radio-info-request@panix.com
X-Comment-1: The moderators do not necessarily agree or disagree with this
article.
X-Comment-2: Moderators do not verify the accuracy of posted information.
X-Comment-3: Acceptance does not convey approval of any external references.
X-Robomod: STUMP, ichudov@algebra.com (Igor Chudov), C++/Perl/Unix Consulting
X-Moderation-1: Hassle-Free commercial hosting of moderation sites available
X-Moderation-2: See http://www.algebra.com/~ichudov/stump
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
        d=google.com; s=20120113;
        h=mime-version:sender:precedence:message-id:date:subject:from:to
         :content-type;
        bh=UG595tRJNRHAe+a2mlkSqlmKdsgMcFSGbu3Z4SXMsx8=;
        b=IfUP1nKGXt4dS2Ch1EnRsv+oySCw5ylo5ccQ6MzpHiyGclkfIeA3QJ9BaBLmP1KCGQ
         7d5dwR5mGxaKZX8kCg1aZ1FKvj9Aqe6uJW17u2/rNd/77EMHxnpwoUISC4HmktODs3E1
         uX98ePhG1ValcpH/NniIBQYa2yb6oldttBSlHqJ/ArF/eIM3l65z0wsHRxjB7fIi739v
         7UNVVUskftrr5+1XWt8H2kieVSErc/LDOPYY02KormLSA6XGj+HPCWdikLavoQgxdvUf
         W90RzDzQsqM5GyWw1Q+Uo8DcI7YuiwTNHSLvULQmlaJBE337psSEUXM66wQgmUpJLJia
         S0lg==
X-StripMime: Non-text section removed by stripmime
Content-Type: text/plain; charset=UTF-8; format=flowed; delsp=yes
```

SolderSmoke Podcasts

//
SolderSmoke148`

Posted: 30 Dec 2012 01:47 AM PST

SolderSmoke issue 148
This posting includes a media file:
http://www.soldersmoke.com/soldersmoke148.mp3

```
From 3549297244933232999
X-Google-Thread: 241b302a50,bfd154f58c86fc67,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.224.198.196 with SMTP id ep4mr28045969qab.3.1357371034909;
        Fri, 04 Jan 2013 23:30:34 -0800 (PST)
```

MIME-Version: 1.0
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1355554802@panix.com>
Followup-To: poster
Date: 1 Jan 2013 02:00:03 -0500
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 19 Jan 2013 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1357023601@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1357023603 5734 166.84.1.2 (1 Jan 2013 07:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 1 Jan 2013 07:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Path: k2ni5383qap.0!nntp.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
news.mccarragher.com!news.grnet.gr!de-l.enfer-du-nord.net!feeder2.enfer-du-
nord.net!news.glorb.com!news-out.readnews.com!transit3.readnews.com!panix!
panix2.panix.com!not-for-mail
Bytes: 3966
X-Received-Bytes: 4014

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted twice monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader
opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. After a successful trial |
period (90 days, through early July 2009), we decided to adopt this |

change permanently.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From 2536433729049445125
X-Google-Thread: 241b302a50,51c2ea6d5e54f783,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,BIG5
X-Received: by 10.180.81.40 with SMTP id w8mr11272667wix.0.1357037010853;
        Tue, 01 Jan 2013 02:43:30 -0800 (PST)
Path: l12ni277085wiv.1!nntp.google.com!goblin1!goblin2!goblin.stu.neva.ru!
feeder1.cambriumusenet.nl!82.197.223.103.MISMATCH!feeder3.cambriumusenet.nl!
feed.tweaknews.nl!209.197.12.246.MISMATCH!nx02.iad01.newshosting.com!
newshosting.com!69.16.185.16.MISMATCH!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe11.iad.POSTED!not-for-mail
From: Gary Sokolisch <SokolischSpeaks@moonbat.com>
Subject: Gary Sokolich - 3816
Newsgroups: rec.radio.amateur.homebrew
User-Agent: 40tude_Dialog/2.0.15.1
MIME-Version: 1.0
Message-ID: <va87p0rpk3lv.4mb4lrrctio7.dlg@40tude.net>
Lines: 51
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Tue, 01 Jan 2013 10:43:30 UTC
```

Organization: TeraNews.com
Date: Tue, 1 Jan 2013 05:43:44 -0500
X-Received-Bytes: 2092
Content-Type: text/plain; charset="big5"
Content-Transfer-Encoding: 8bit

3816

W Gary Sokolich
801 Kings Road
Newport Beach, CA 92663-5715
(949) 650-5379
Local PD
949-644-3681

Residence:
1029 S Point View St
Los Angeles CA 90035
(310) 650-5379

and
5309 Victoria Ave., Los Angeles, CA, 90043

http://web.archive.org/web/20080821231423/http://www.tbpe.state.tx.us/da/da022808.htm

TEXAS BOARD OF PROFESSIONAL ENGINEERS
February 28, 2008 Board Meeting Disciplinary Actions

W. Gary Sokolich , Newport Beach, California �V File B-29812 - It was alleged that. Sokolich unlawfully offered or attempted to practice engineering in Texas (...) Sokolich chose to end the proceedings by signing a Consent Order that was accepted by the Board to cease and desist from representing himself as an ��Engineer�� in Texas, from any and all representations that he can offer or perform engineering services and from the actual practice of engineering in Texas (...) Sokolich was also assessed a $1,360.00 administrative penalty.

----

http://articles.latimes.com/1988-04-14/local/me-1922_1_ucla-researcher

A former UCLA employee has agreed to provide copies of his research to the school to settle a lawsuit the university filed against him in 1985, lawyers in the case said.

(...)

The University of California Board of Regents filed a $620,000 lawsuit against Sokolich, accusing him of taking research on the hearing

capabilities of animals in June, 1982. Sokolich was dismissed by UCLA
(...).

(...)

```
From 435274198137754199
X-Google-Thread: 241b302a50,278c989bbb7f0a3f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.224.181.140 with SMTP id by12mr26136536qab.0.1357160384404;
        Wed, 02 Jan 2013 12:59:44 -0800 (PST)
Received: by 10.49.58.167 with SMTP id s7mr7376707qeq.5.1357160384374; Wed, 02
 Jan 2013 12:59:44 -0800 (PST)
Path: k2ni4226qap.0!nntp.google.com!ee4no12199501qab.0!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Wed, 2 Jan 2013 12:59:44 -0800 (PST)
In-Reply-To: <k9pnnr$e5j$1@frotz.eternal-september.org>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=66.87.2.127;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
NNTP-Posting-Host: 66.87.2.127
References: <k9pnnr$e5j$1@frotz.eternal-september.org>
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <ca828343-66ae-451e-9302-6b3d1818bad0@googlegroups.com>
Subject: Re: Making a 2m/70cm + 1.25m diplexer
From: raypsi <RBorowiak@gmail.com>
Injection-Date: Wed, 02 Jan 2013 20:59:44 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

Hey OM:

Here I thought this was the homebrew forum. The separate antenna is the easy way out,

I'd go with sum pin diode switching and a frequency sense circuit to switch the pin diodes. Or there are some good mercury wetted relays out there that can handle 100 watts.

On Thursday, December 6, 2012 4:15:39 AM UTC-5, David Griffith wrote:
> In order to connect a 2m/70cm radio and a 1.25m radio to a triband
>
> antenna (2m/1.25m/70cm), one requires a triplexer and diplexer. I'd
>
> like to cut down on the number and size of equipment to do this.
>
>
>

```
> I asked Comet about making a single compact unit that takes 2m/70cm on
>
> one port and 1.25m on the other.  Mick Stwertnik told me that they
>
> designed and specced it out, but the cost would be a prohibitive
>
> $200-ish.
>
>
>
> So I investigated making my own and found Jim Tonne's Diplexer program.
>
> I asked him if he could extend the program to allow for designing
>
> triplexers.  He had some hackish solution that sort of worked, but he
>
> doesn't know the math to do it correctly in the first place.
>
>
>
> Where should I go from here?
>
>
>
> --
>
> David Griffith
>
> davidmylastname@acm.org   <--- Put my last name where it belongs



From -7312911207329314447
X-Google-Thread: fc2a5,278c989bbb7f0a3f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.93.134 with SMTP id cu6mr10922146wib.5.1357189362853;
        Wed, 02 Jan 2013 21:02:42 -0800 (PST)
MIME-Version: 1.0
Path: l12ni280593wiv.1!nntp.google.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!209.197.12.242.MISMATCH!nx01.iad01.newshosting.com!
newshosting.com!216.196.98.146.MISMATCH!border3.nntp.dca.giganews.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 02 Jan 2013 23:02:41 -0600
From: Channel Jumper <Channel.Jumper.b2ac8d9@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Making a 2m/70cm + 1.25m diplexer
Date: Thu, 3 Jan 2013 04:10:10 +0000
Message-ID: <Channel.Jumper.b2ac8d9@radiobanter.com>
Organization: RadioBanter.com
```

User-Agent:
X-Newsreader:
X-Originating-IP:
References: <k9pnnr$e5j$1@frotz.eternal-september.org>
<ca828343-66ae-451e-9302-6b3d1818bad0@googlegroups.com>
Lines: 57
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
Jzf6cgBrN1tpYmiORiMHTeFuauCvAvt4VFybtMJOoUb+2Ld1SbA7Lqu72ZSDRnPdpY0WyeIbX6tgHEz!
sk1IbGm5uFqPYOn/D8BmsaP5fIvIAaaKqsl0hdajgFd5tth33hArWotG61nMkpCAhXITyKtj590k!
NJKZw4z4nA9mxgI=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 3420
X-Original-Lines: 30
X-Original-Bytes: 3337

Maybe I am out of line here, but what you are asking is dumb.

Diplexers / Duplexers - what ever you want to call them are by nature
only about 50% efficient.
This means that you are throwing away half of your transmitted power and
half of your capiable receive in the diplexer.. DUMB!

Antenna manufacturers makes multiple tri band antenna's.
But in order to do it efficiently - you have to start with a resonant
antenna.

Because 70 cm and 1.25 CM are not multiples of wavelengths of 2 meters -
the best you can come up with is a compromise antenna...

The Diamond V2000 is a good example of this.
It does 2 meters, 70 cm and also 6 meters...

They do this by making the antenna into segments and placing capacitors
between the sections. The capacitors divides the antenna into
segments.

The RF looks down the array, till it finds the length it is looking for
and then it uses it, much like a Yagi Uda antenna for television...

The Diamond X 510 is another example - it uses 3 segments and has
excellent gain.... Problem is when you make a 2 meter antenna 18' long,
you end up with a top heavy vertical that snaps off when it is placed in
too much wind or when it gets old and brittle.

The antenna you are looking for was already designed a long time ago.
It is called a Discone antenna...

You make the vertical whip one length, you place at least two ground radials underneath of a resonant length and put the radial system directly under the antenna.

Diamond makes a excellent example.
No need to home brew a antenna in this day and age, except for experimental purposes.

I get disgusted when I listen to the 2 meters and a couple of noob's comes on and starts telling me how they are hams because they build a J Pole antenna and are using walkie talkies and they are able to get into the one local repeater and can talk to people because the repeater is part of a linked repeater system - VOIP.....

If it was not for that repeater being linked, they would have no one to talk to, and when the 10 years comes up for the license, their call sign would be beside all the others from their VE test session that did not advance to General or higher, or did not put their license to good use while they held it.

--
Channel Jumper

```
From 3371722824045196071
X-Google-Thread: 241b302a50,278c989bbb7f0a3f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.74.228 with SMTP id x4mr7947703pav.24.1357203183988;
        Thu, 03 Jan 2013 00:53:03 -0800 (PST)
MIME-Version: 1.0
Path: s9ni79330pbb.0!nntp.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!goblin2!goblin.stu.neva.ru!feeder.erje.net!eu.feeder.erje.net!
feed.xsnews.nl!border-1.ams.xsnews.nl!xlned.com!feeder7.xlned.com!news2.euro.net!
newsgate.cistron.nl!newsgate.news.xs4all.nl!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Making a 2m/70cm + 1.25m diplexer
References: <k9pnnr$e5j$1@frotz.eternal-september.org>
 <ca828343-66ae-451e-9302-6b3d1818bad0@googlegroups.com>
 <Channel.Jumper.b2ac8d9@radiobanter.com>
User-Agent: slrn/pre1.0.0-18 (Linux)
Message-ID: <slrnkeahna.jrc.nomail@xs8.xs4all.nl>
Date: 03 Jan 2013 08:52:58 GMT
Lines: 10
NNTP-Posting-Host: 2001:888:0:1::888
X-Trace: 1357203178 news.xs4all.nl 6917 [2001:888:0:1::888]:53858
X-Complaints-To: abuse@xs4all.nl
Bytes: 1313
```

Channel Jumper <Channel.Jumper.b2ac8d9@radiobanter.com> wrote:
>
> Maybe I am out of line here, but what you are asking is dumb.
>
> Diplexers / Duplexers - what ever you want to call them are by nature
> only about 50% efficient.
> This means that you are throwing away half of your transmitted power and
> half of your capiable receive in the diplexer.. DUMB!

It is not the diplexer that is dumb, it is your remark that is dumb.

```
From 3646890083497151539
X-Google-Thread: fc2a5,278c989bbb7f0a3f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.74.79 with SMTP id r15mr13045821wiv.4.1357226417932;
        Thu, 03 Jan 2013 07:20:17 -0800 (PST)
MIME-Version: 1.0
Path: l12ni281493wiv.1!nntp.google.com!feeder1-2.proxad.net!proxad.net!
feeder2-2.proxad.net!nx01.iad01.newshosting.com!newshosting.com!
69.16.185.21.MISMATCH!npeer03.iad.highwinds-media.com!news.highwinds-media.com!
feed-me.highwinds-media.com!border3.nntp.dca.giganews.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 03 Jan 2013 09:20:17 -0600
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <k9pnnr$e5j$1@frotz.eternal-september.org>
<ca828343-66ae-451e-9302-6b3d1818bad0@googlegroups.com>
<Channel.Jumper.b2ac8d9@radiobanter.com> <slrnkeahna.jrc.nomail@xs8.xs4all.nl>
Subject: Re: Making a 2m/70cm + 1.25m diplexer
Date: Thu, 3 Jan 2013 10:20:16 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
Message-ID: <1qednTX_gawsPHjNnZ2dnUVZ_qadnZ2d@earthlink.com>
Lines: 21
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.148.196.5
X-Trace: sv3-Dsdwdh8Zw7U5TdprBAvapnkgvP/QtRlZfp/
eZdRIVAX+1YuzVzbIcSRo8pOmcCA73ZSnliG0caC3rkP!
6h5p3zkr8n6oAIifqGmmSnlp9E+nb+pxcPb4aTeUTFmK/N8MfY708iKom+FGT6R7K62upDdKITkf!
Jyi+CeeawNH8HYdbHiY=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 2207
```

```
X-Original-Bytes: 2146
X-Received-Bytes: 2287
```

"Rob" <nomail@example.com> wrote in message
news:slrnkeahna.jrc.nomail@xs8.xs4all.nl...

> Channel Jumper <Channel.Jumper.b2ac8d9@radiobanter.com> wrote:
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Most of CJ's remarks are that way. I doubt he has ever measured or checked on the splitters. I have and they are usually less than a half of a DB loss in them. I am thinking more like a .3 or so of a db loss, but it has been a while. Anyway from the best I could tell, it met the spec on the case of the splitter. That was with a HP 8924C test set.

```
From 1137659768659644597
X-Google-Thread: fc2a5,278c989bbb7f0a3f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.73.102 with SMTP id k6mr7954627pav.7.1357232558427;
        Thu, 03 Jan 2013 09:02:38 -0800 (PST)
MIME-Version: 1.0
Path: s9ni79924pbb.0!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 03 Jan 2013 11:02:37 -0600
From: Channel Jumper <Channel.Jumper.b2b7198@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Making a 2m/70cm + 1.25m diplexer
Date: Thu, 3 Jan 2013 15:22:00 +0000
Message-ID: <Channel.Jumper.b2b7198@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
References: <k9pnnr$e5j$1@frotz.eternal-
september.org><ca828343-66ae-451e-9302-6b3d1818bad0@googlegroups.com><Channel.Jump
er.b2ac8d9@radiobanter.com> <slrnkeahna.jrc.nomail@xs8.xs4all.nl>
Lines: 44
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
```

HlB+CMpPNLH8crDCeXiEWV5dOZPG7XOHUuS1sAeWjI8NYYAUyVOHQpMMZggICLvud9eaEdlkF43NKDx!
NBatRZ6rKCd8/bqJsBkAdTkPmGRJrQh3h9UeL+7Y0Z1D0YaukSqQRNa2YnhicjQblcrbNwfZy+Yh!
OGvc2xUsLnYchkE=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Bytes: 2993
X-Original-Lines: 22
X-Original-Bytes: 2910

'Rob[_8_ Wrote:

> ;800300']Channel Jumper Channel.Jumper.b2ac8d9@radiobanter.com wrote:-
>
> Maybe I am out of line here, but what you are asking is dumb.
>
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> only about 50% efficient.
> This means that you are throwing away half of your transmitted power
> and
> half of your capiable receive in the diplexer.. DUMB!-
>
> It is not the diplexer that is dumb, it is your remark that is dumb.

Fine - but if you want to be right - you first have to prove why you think that you are right.
A good example comes to mind.
In the 1970's Avanti came out with a antenna called the Moonraker IV
It was horizontally as well as vertically polarized.
Probably not a new idea, but one thing that you could get with that antenna was a switch which allowed the use of one coax for two antenna's.

Don't you think that it would be easier to use a Diamond X 510 antenna and a 220 MHz and switch them up on the tower then it would be to use a duplexer and try to use both at the same time.

220 is dead except for maybe in the city somewhere where someone has a repeater... No manufacturer makes a 220 transceiver, except as a after thought - the only one I see listed in the AES / HRO catalog has a output of 1 watt.. I guess they use it to control a repeater site or something like that.

200 Mhz offers the benefits of being a little more ground following - like 2 meters, while being a little quieter - like 70 cm.. Rule of thumb - noise is inverse the square of the frequency.. The higher in frequency you go, the less noise you have to overcome. Probably the reason why cell phones are 869 - 913 Mhz and public service is going to 800 Mhz and the T band.

--
Channel Jumper

```
From -7991559204876372702
X-Google-Thread: fc2a5,278c989bbb7f0a3f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.75.230 with SMTP id f6mr8877859paw.25.1357340566710;
        Fri, 04 Jan 2013 15:02:46 -0800 (PST)
MIME-Version: 1.0
Path: 6ni82003pbd.1!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 04 Jan 2013 17:02:46 -0600
From: Channel Jumper <Channel.Jumper.b2d1778@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Making a 2m/70cm + 1.25m diplexer
Date: Fri, 4 Jan 2013 22:26:21 +0000
Message-ID: <Channel.Jumper.b2d1778@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
References: <k9pnnr$e5j$1@frotz.eternal-september.org>
<ca828343-66ae-451e-9302-6b3d1818bad0@googlegroups.com>
<Channel.Jumper.b2ac8d9@radiobanter.com> <slrnkeahna.jrc.nomail@xs8.xs4all.nl>
<1qednTX_gawsPHjNnZ2dnUVZ_qadnZ2d@earthlink.com>
Lines: 73
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
ki4Pon6ZQ5fEcV7RhCutuCYkjxuwOAoL1Bw46iz5UMqPauNBGqjSK2V917rHG5T8wOYS7Tlws/tXSeV!
nAqrXOnfsS493+jKVGOtX8G1pQwhLzxv+88AaekHdiBPMqT9le/yl95VQ1kKGUxhDUqiA7qykKmu!
jS4hFUd6y93kGtc=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 4238
X-Original-Lines: 1
X-Original-Bytes: 4155
```

Ralph Mowery;800305 Wrote:
> "Rob" nomail@example.com wrote in message
> news:slrnkeahna.jrc.nomail@xs8.xs4all.nl...-
> Channel Jumper Channel.Jumper.b2ac8d9@radiobanter.com wrote:-
>
> Maybe I am out of line here, but what you are asking is dumb.

>
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> Most of CJ's remarks are that way. I doubt he has ever measured or
> checked
> on the splitters. I have and they are usually less than a half of a DB
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> in them. I am thinking more like a .3 or so of a db loss, but it has
> been a
> while. Anyway from the best I could tell, it met the spec on the case
> of
> the splitter. That was with a HP 8924C test set.

Now I know I am dealing with a CB'r

You cannot use a splitter to connect two antenna's together, and a
splitter is not a diplexer.
Even if all you are going to do is use the antenna's for receive only,
you will still run into problems..
If it was a television antenna - we use a con - joiner - it basically
isolates each antenna from each other, is real good for isolation to
prevent multipath, but again, you throw away half of the signal in the
Con - Joiner.

A splitter by nature is wasteful, a 2 way splitter should be unilateral,
each port receives 50% of the signal.
BUT
When you advance to a 3 way splitter, they are not unilateral.
Unless it is a expensive splitter, you usually end up with one port
having about 45% of the signal and the other two sharing the remaining
25% / 30% - between the two remaining ports.
This is the problem I deal with most often with reception issues.

The op buys a splitter, then figures that the television reduces the
amount of received antenna power and so they buy a distribution
amplifier and they figure that if they amplify the signal it will get
better.
The problem being that you not only amplify the signal, you also amplify
the noise, plus the amplifier makes some of its own noise.

So we steer them towards a mast head pre amplifier and it solves some
problems but not all.
If the antenna is not aimed at the strongest part of the signal - we get
little or not reception, or the reception we do get with digital signals
is sometimes corrupted by radio waves arriving at the antenna at
different times.

I've already explained dipole antenna's - which are a balanced antenna,
or a vertical antenna.. So there isn't much of anything else to say
except good bye on this one.

A Diplexer filters out the other frequency signal - and con - joins the
two antenna's together on one feed line. Or makes believe to the
receiver that there is two seperate antenna's, or keeps the rf out of
the other side of the transceiver on a dual band transceiver.

--
Channel Jumper

From 7950715277759323530
X-Google-Thread: fc2a5,278c989bbb7f0a3f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.72.131 with SMTP id d3mr9277081pav.38.1357375176399;
        Sat, 05 Jan 2013 00:39:36 -0800 (PST)
MIME-Version: 1.0
Path: s9ni83826pbb.0!nntp.google.com!news.glorb.com!us.feeder.erje.net!
feeder.erje.net!eu.feeder.erje.net!newsfeed.freenet.ag!news2.euro.net!
newsgate.cistron.nl!newsgate.news.xs4all.nl!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Making a 2m/70cm + 1.25m diplexer
References: <k9pnnr$e5j$1@frotz.eternal-september.org>
 <ca828343-66ae-451e-9302-6b3d1818bad0@googlegroups.com>
 <Channel.Jumper.b2ac8d9@radiobanter.com>
 <slrnkeahna.jrc.nomail@xs8.xs4all.nl>
 <1qednTX_gawsPHjNnZ2dnUVZ_qadnZ2d@earthlink.com>
 <Channel.Jumper.b2d1778@radiobanter.com>
User-Agent: slrn/pre1.0.0-18 (Linux)
Message-ID: <slrnkefpl6.9ch.nomail@xs8.xs4all.nl>
Date: 05 Jan 2013 08:39:02 GMT
Lines: 74
NNTP-Posting-Host: 2001:888:0:1::888
X-Trace: 1357375142 news.xs4all.nl 6965 [2001:888:0:1::888]:46249
X-Complaints-To: abuse@xs4all.nl

Channel Jumper <Channel.Jumper.b2d1778@radiobanter.com> wrote:
>
> Ralph Mowery;800305 Wrote:
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> the noise, plus the amplifier makes some of its own noise.
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> A Diplexer filters out the other frequency signal - and con - joins the
> two antenna's together on one feed line. Or makes believe to the
> receiver that there is two seperate antenna's, or keeps the rf out of
> the other side of the transceiver on a dual band transceiver.

Why are you posting all this irrelevant crap?

When it is not clear to you that there is a big difference in operation
between a diplexer and a splitter, why bother?

```
From 7845004390141131057
X-Google-Thread: fc2a5,278c989bbb7f0a3f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.73.194 with SMTP id n2mr57973pav.7.1357401058942;
        Sat, 05 Jan 2013 07:50:58 -0800 (PST)
MIME-Version: 1.0
Path: s9ni85036pbb.0!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 05 Jan 2013 09:50:57 -0600
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <k9pnnr$e5j$1@frotz.eternal-september.org>
<ca828343-66ae-451e-9302-6b3d1818bad0@googlegroups.com>
<Channel.Jumper.b2ac8d9@radiobanter.com> <slrnkeahna.jrc.nomail@xs8.xs4all.nl>
<1qednTX_gawsPHjNnZ2dnUVZ_qadnZ2d@earthlink.com>
<Channel.Jumper.b2d1778@radiobanter.com> <slrnkefpl6.9ch.nomail@xs8.xs4all.nl>
Subject: Re: Making a 2m/70cm + 1.25m diplexer
Date: Sat, 5 Jan 2013 10:50:57 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
Message-ID: <quWdne8u3MZ_1nXNnZ2dnUVZ_u2dnZ2d@earthlink.com>
Lines: 33
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.148.196.5
X-Trace: sv3-UIjLRo+X/
WgbNa7ZyK7tVXAOURSZc5zYwmSE+6u50YRqqZp5SV6iJMbEdsT+eqCROvt9Jgx2eGg/aTy!
ADVNnrFY4ymK32ABWVyM3UVCdymvvnwDCxRkk8bu0HbL8pY4lU7fjtpbcGYADvIzgGqcV1V1DGhu!
dbn3755HB1eDs/3QMhY=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 2852
```

X-Original-Bytes: 2791

"Rob" <nomail@example.com> wrote in message
news:slrnkefpl6.9ch.nomail@xs8.xs4all.nl...
>> A Diplexer filters out the other frequency signal - and con - joins the
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>
> Why are you posting all this irrelevant crap?
>
> When it is not clear to you that there is a big difference in operation
> between a diplexer and a splitter, why bother?

I guess that I did add to the confusion by saying splitter when I should have said either duplexer or diplexer. It is already bad enough that Comet and maybe some other makers of diplexers are calling them duplexers.

I use Comet because that is one that I had handy and did check the loss in it with a HP 8924C. It has duplexer on it and meets the specs that are marked on it. I do not have them handy now, but think it was .2 db for one range of frequencies and .3 for the other.

I just loosely used splitter instead of saying duplexer/diplexer.
And Yes, I know the differance in all of the above. I had a First Classs Radio Telephone license back in 1972 at the age of 22 if that makes any differance.
Been an Extra class ham for over 10 years.
Repaired the CB radios for several years to about 1976 to pick up some spending money.

From 7242831749116864393
X-Google-Thread: fc2a5,667550887ff1fda3,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.89.74 with SMTP id bm10mr7933779pab.19.1357542305021;
        Sun, 06 Jan 2013 23:05:05 -0800 (PST)
MIME-Version: 1.0
Path: 6ni90675pbd.1!nntp.google.com!border1.nntp.dca.giganews.com!border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!news-out.readnews.com!transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*

Supersedes: <radio/ham-radio/recruitment-1-1356159900@panix.com>
Followup-To: poster
Date: 7 Jan 2013 02:05:02 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 25 Jan 2013 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1357542300@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1357542304 2701 166.84.1.2 (7 Jan 2013 07:05:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 7 Jan 2013 07:05:04 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Bytes: 3542

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted twice monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

 rec.radio.amateur.antenna |
 rec.radio.amateur.boatanchors |
 rec.radio.amateur.dx |
 rec.radio.amateur.equipment |
 rec.radio.amateur.homebrew |
 rec.radio.amateur.moderated |
 rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

```
From -6856037904657408381
X-Google-Thread: 241b302a50,278c989bbb7f0a3f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.72.232 with SMTP id g8mr7945248pav.23.1357543892958;
        Sun, 06 Jan 2013 23:31:32 -0800 (PST)
Path: s9ni91079pbb.0!nntp.google.com!news.glorb.com!border3.nntp.dca.giganews.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 07 Jan 2013 01:31:32 -0600
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <k9pnnr$e5j$1@frotz.eternal-september.org>
<ca828343-66ae-451e-9302-6b3d1818bad0@googlegroups.com>
<Channel.Jumper.b2ac8d9@radiobanter.com> <slrnkeahna.jrc.nomail@xs8.xs4all.nl>
<1qednTX_gawsPHjNnZ2dnUVZ_qadnZ2d@earthlink.com>
<Channel.Jumper.b2d1778@radiobanter.com> <slrnkefpl6.9ch.nomail@xs8.xs4all.nl>
<quWdne8u3MZ_1nXNnZ2dnUVZ_u2dnZ2d@earthlink.com>
In-Reply-To: <quWdne8u3MZ_1nXNnZ2dnUVZ_u2dnZ2d@earthlink.com>
Subject: Re: Making a 2m/70cm + 1.25m diplexer
Date: Sun, 6 Jan 2013 23:31:27 -0800
MIME-Version: 1.0
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18463
Message-ID: <GL2dndFFE8NJ5HfNnZ2dnUVZ5qKdnZ2d@giganews.com>
Lines: 12
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-3FrTxX/
YeKcGyGKGndnbal8fB3aJKPDKiggg84nNOcdQZuhe3adNN7GIgkTNIRkp48lAsKiM60EY031!
qkYMOQjlgCYx9QSNRuXfOsGJnmKT0TSix3OsSbf2jgH6WdIFVgR2UfAfpSV6UYfHD8mAcP9Fow==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
```

```
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2044
Content-Type: text/plain;
     format=flowed;
     charset="Windows-1252";
     reply-type=response
Content-Transfer-Encoding: 7bit

.> Been an Extra class ham for over 10 years.
> Repaired the CB radios for several years to about 1976 to pick up some
> spending money.

Hi, Ralph, am enjoying the give and take here! I also repaired CB radios
for extra meat on the table in the mid 1960's. Extra class very nearly
43 years! First class Radiotelephone licensed about the same time,
 Don't let "em get to 'ya! You've "been there, done that"!

Hoooooyah!

Old Chief Lynn, W7LTQ


From 6033835478795483258
X-Google-Thread: 241b302a50,b1610757097c5e24,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.90.67 with SMTP id bu3mr10756378pab.45.1357568252274;
        Mon, 07 Jan 2013 06:17:32 -0800 (PST)
Received: by 10.49.94.129 with SMTP id dc1mr10279222qeb.22.1357568252168; Mon,
 07 Jan 2013 06:17:32 -0800 (PST)
Path: s9ni88763pbb.0!nntp.google.com!b8no6937653pbd.0!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Mon, 7 Jan 2013 06:17:32 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=188.190.124.71;
 posting-account=lpvsOQoAAADrItjCNLUGUA4f5NKzjLsd
NNTP-Posting-Host: 188.190.124.71
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <1b5bde35-9902-4f72-88f7-9ec88ba410fc@googlegroups.com>
Subject: Awards Central: All things awards season
From: Iran <tamarmadgecay@gmail.com>
Injection-Date: Mon, 07 Jan 2013 14:17:32 +0000
Content-Type: text/plain; charset=ISO-8859-1

Awards Central: All things awards season http://adf.ly/2836760/
rssfeeds.usatoday.com/~r/UsatodaycomMovies-TopStories/~3/-q2GHDel8HE/
```

```
From 3985678666160641977
X-Google-Thread: fc2a5,278c989bbb7f0a3f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.72.131 with SMTP id d3mr10306790pav.38.1357586723677;
        Mon, 07 Jan 2013 11:25:23 -0800 (PST)
MIME-Version: 1.0
Path: 6ni90563pbd.1!nntp.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!STARBAND.NET-a2kHrUvQQWlmc!not-for-mail
From: Bruce Gordon <fast@btpost.net>
Newsgroups: rec.radio.amateur.homebrew
Mail-Copies-To: poster
Subject: Re: Making a 2m/70cm + 1.25m diplexer
Organization: Bruce's Trading Post
References: <k9pnnr$e5j$1@frotz.eternal-september.org>
<ca828343-66ae-451e-9302-6b3d1818bad0@googlegroups.com>
<Channel.Jumper.b2ac8d9@radiobanter.com> <slrnkeahna.jrc.nomail@xs8.xs4all.nl>
<1qednTX_gawsPHjNnZ2dnUVZ_qadnZ2d@earthlink.com>
<Channel.Jumper.b2d1778@radiobanter.com> <slrnkefpl6.9ch.nomail@xs8.xs4all.nl>
<quWdne8u3MZ_1nXNnZ2dnUVZ_u2dnZ2d@earthlink.com>
<GL2dndFFE8NJ5HfNnZ2dnUVZ5qKdnZ2d@giganews.com>
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
Date: Mon, 07 Jan 2013 10:25:21 -0900
Message-ID: <fast-04AC0F.10252107012013@news.starband.net>
X-Complaints-To: abuse@usenetserver.com
Lines: 20
X-Trace: af98b50eb212331e5901f22742
X-Received-Bytes: 1648
```

In article <GL2dndFFE8NJ5HfNnZ2dnUVZ5qKdnZ2d@giganews.com>,
 "coffelt2" <coffelt2@comcast.net> wrote:

> .> Been an Extra class ham for over 10 years.
> > Repaired the CB radios for several years to about 1976 to pick up some
> > spending money.
>
> Hi, Ralph, am enjoying the give and take here! I also repaired CB radios
> for extra meat on the table in the mid 1960's. Extra class very nearly
> 43 years! First class Radiotelephone licensed about the same time,
> Don't let "em get to 'ya! You've "been there, done that"!
>
> Hooooyah!
>
> Old Chief Lynn, W7LTQ

Hey Lynn, Long time no chat.....

--
Bruce in Alaska   add path before the @ for email

```
From 2970485429368363470
X-Google-Thread: 241b302a50,36299cdfcd58e80e,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.109.162 with SMTP id ht2mr2474561wib.1.1357876751899;
        Thu, 10 Jan 2013 19:59:11 -0800 (PST)
Path: i11ni356997wiw.0!nntp.google.com!feeder1.cambriumusenet.nl!
82.197.223.108.MISMATCH!feeder2.cambriumusenet.nl!feed.tweaknews.nl!
216.40.29.245.MISMATCH!novia!border4.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!border3.nntp.dca.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nrc-news.nrc.ca!goblin1!goblin2!
goblin.stu.neva.ru!feeder.erje.net!eu.feeder.erje.net!eternal-september.org!
feeder.eternal-september.org!mx04.eternal-september.org!.POSTED!not-for-mail
From: Henry <hsknoll@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: After Christmas Book Sale
Date: Mon, 07 Jan 2013 15:14:29 -0600
Organization: A noiseless patient Spider
Lines: 40
Message-ID: <kcfdon$nvl$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Mon, 7 Jan 2013 21:12:55 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-
host="7de99d585ac20a09732942871dce0854";
     logging-data="24565"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18iqa2XY0UF6ihMK7qdRgqo"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.8) Gecko/
20050511 Mnenhy/0.7.2.0
X-Accept-Language: en-us
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 130107-0, 01/07/2013), Outbound message
Cancel-Lock: sha1:rPycf1pEGtNfW275CT/BZp+mz0E=
Bytes: 2870
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
```

I have the following books for sale with the prices I'm asking. All are in very good to excellent to like new. Some have my name in them. All have good bindings. All are plus postage from zip 55082. Payment in US$ in advance by check or money order. Sorry, no Paypal. When replying include your name and address so I can get postage.

Title	Author	Price
Advanced Class License Manual 1985-1986	ARRL	$3
Antenna Book 17th Ed 1994	ARRL	$12
Antenna Book 18th Ed 1997	ARRL	$15
Antenna Impedance Matching	Caron-ARRL	$20
Atlanticon 2002 Proceedings		$5
Beam Antenna Hndbk 2nd Ed	Orr	$10

Call Book No. American 1991		$5
Call Book International 1995		$5
Circuit Design Using PC's	Cuthbert	$10
Electronic Eng Measurements File Book 1965	Scrupski	$5
Extra Class License Man1990	ARRL	$4
FM & Repeater for the Radio Amateur 1972	ARRL	$4
From Spark to Space	ARRL	$10
Observe & Understand the Sun 1976	Astro League	$5
Operating Manual 5th Ed	ARRL	$8
Radio Freq Interference 1987	ARRL	$5
Satellite Exp's Hndbk 1990	ARRL	$12
Television Interferencd	Rem. Rand	$5
The Mobile Manual for Radio Amateur's 1960	ARRL	$8
UHF/Microwave Exp's Man1990	ARRL	$12
VHF Antenna Hndbk 1965	Kyle-73 Pub	$5
VHF for the Radio Amateur	Jones	$8
VHF Hand Book	Orr	$8
Yagi Antenna Design 1986	Lawson	$20

```
From 671097842182265233
X-Google-Thread: fc2a5,278c989bbb7f0a3f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.68.200.3 with SMTP id jo3mr1157366pbc.5.1357620611197;
        Mon, 07 Jan 2013 20:50:11 -0800 (PST)
Path: 6ni94190pbd.1!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 07 Jan 2013 22:50:10 -0600
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <k9pnnr$e5j$1@frotz.eternal-september.org>
<ca828343-66ae-451e-9302-6b3d1818bad0@googlegroups.com>
<Channel.Jumper.b2ac8d9@radiobanter.com> <slrnkeahna.jrc.nomail@xs8.xs4all.nl>
<1qednTX_gawsPHjNnZ2dnUVZ_qadnZ2d@earthlink.com>
<Channel.Jumper.b2d1778@radiobanter.com> <slrnkefpl6.9ch.nomail@xs8.xs4all.nl>
<quWdne8u3MZ_1nXNnZ2dnUVZ_u2dnZ2d@earthlink.com>
<GL2dndFFE8NJ5HfNnZ2dnUVZ5qKdnZ2d@giganews.com>
<fast-04AC0F.10252107012013@news.starband.net>
In-Reply-To: <fast-04AC0F.10252107012013@news.starband.net>
Subject: Re: Making a 2m/70cm + 1.25m diplexer
Date: Mon, 7 Jan 2013 20:50:07 -0800
MIME-Version: 1.0
X-Priority: 3
```

```
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18463
Message-ID: <SMidnbZlSsofOHbNnZ2dnUVZ5vWdnZ2d@giganews.com>
Lines: 23
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
qDQjTtyud8Swy+Nx2StnZQerBcXQmATDK7DHztBeztWox842ItnaPS6i7vc93jvGuTQkzPsVJyzOjpL!
FtSkaMHZprZjBIkdHLRDoArNLeq2Fj6u3z1LrLDnILb90leqhsnLUMw1ZR/9ne0xC6plL8t8dQ==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 2428
X-Original-Bytes: 2367
Content-Type: text/plain;
     format=flowed;
     charset="Windows-1252";
     reply-type=original
Content-Transfer-Encoding: 7bit

>> .> Been an Extra class ham for over 10 years.
>> > Repaired the CB radios for several years to about 1976 to pick up some
>> > spending money.
>>
>> Hi, Ralph, am enjoying the give and take here! I also repaired CB radios
>> for extra meat on the table in the mid 1960's. Extra class very nearly
>> 43 years! First class Radiotelephone licensed about the same time,
>>  Don't let "em get to 'ya! You've "been there, done that"!
>>
>> Hoooooyah!
>>
>> Old Chief Lynn, W7LTQ
>
> Hey Lynn,  Long time no chat.....
>
> --
> Bruce in Alaska   add path before the @ for email

Good to hear 'ya, Bruce!
Wait'n for 10 meters to open......  any hope?

Old Chief Lynn




From 8657075977092215101
X-Google-Thread: fc2a5,ba33881350c6ce0d,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
X-Received: by 10.68.200.168 with SMTP id jt8mr9963049pbc.7.1357637277537;
        Tue, 08 Jan 2013 01:27:57 -0800 (PST)
MIME-Version: 1.0
Received: by 10.50.191.131 with SMTP id gy3mr3178902igc.1.1357637277497; Tue,
 08 Jan 2013 01:27:57 -0800 (PST)
Path: s9ni93491pbb.0!nntp.google.com!f6no2775443pbd.1!postnews.google.com!
d2g2000pbd.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Tue, 8 Jan 2013 01:27:57 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: d2g2000pbd.googlegroups.com; posting-host=117.199.241.26; posting-
account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
NNTP-Posting-Host: 117.199.241.26
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:17.0) Gecko/20100101 Firefox/
17.0,gzip(gfe)
Message-ID: <93ba36f3-3158-424f-b278-824eedb05f3e@d2g2000pbd.googlegroups.com>
Subject: HOT VIDEOS AND PHOTOS FREE HERE TO U 53
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Injection-Date: Tue, 08 Jan 2013 09:27:57 +0000
Content-Type: text/plain; charset=ISO-8859-1

     VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.in/2011/06/real-kiss-hot-videos.html

  HOT HOT LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/hot-for-youth.html
SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-101.html
YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.in/2010/06/supr-hot-never-seen.html
SUPER HOT NEVER SEEN
http://hotvideosfreesee.blogspot.in/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/kajal-best-lip-kiss.html

for mopre hot videos
http://allvideosforyouth.blogspot.in/2010/08/super-hot-lip-kiss.html

     jobs
http://alljobsaywhere.blogspot.in/

              mobile

mobile games free download
http://mobileallinforation.blogspot.in


 interview question
java interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/java-interview-questions-
```

and-answers.html
oracle interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/oracle-interview-questions-and-answers.html
hardware interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/hardware-interview-questions-and-answers.html
networking interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/networking-interview-questions-and.html
dotnet interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/dotnet-interview-questions-and-answers.html
c interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/c-interview-questions-and-answers.html
datawarehousing interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/datawarehousing-interview-questions-and.html
sap interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/sap-interview-questions-and-answers.html

all jobs
java jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/java-jobs.html
oracle jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/oracle-jobs.html
sap jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/sap-jobs.html
hardware jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/hardware-jobs.html
networking jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/networking-jobs.html
datawarehousing jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/datawarehousing-jobs.html
GOOGLE ADSENSE
http://alljobsandinterviwquestions.blogspot.com/2012/08/google-adsense.html

---

```
From 6090599965371045076
X-Google-Thread: 241b302a50,278c989bbb7f0a3f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.83.101 with SMTP id p5mr2812920wiy.0.1357903805279;
        Fri, 11 Jan 2013 03:30:05 -0800 (PST)
MIME-Version: 1.0
Path: o9ni6635wio.1!nntp.google.com!feeder1.cambriumusenet.nl!
```

82.197.223.103.MISMATCH!feeder3.cambriumusenet.nl!feed.tweaknews.nl!
94.232.116.11.MISMATCH!feed.xsnews.nl!border-1.ams.xsnews.nl!newsfeed.x-
privat.org!news.glorb.com!npeer03.iad.highwinds-media.com!news.highwinds-
media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!STARBAND.NET-
a2kHrUvQQWlmc!not-for-mail
From: Bruce Gordon <fast@btpost.net>
Newsgroups: rec.radio.amateur.homebrew
Mail-Copies-To: poster
Subject: Re: Making a 2m/70cm + 1.25m diplexer
Organization: Bruce's Trading Post
References: <k9pnnr$e5j$1@frotz.eternal-september.org>
<ca828343-66ae-451e-9302-6b3d1818bad0@googlegroups.com>
<Channel.Jumper.b2ac8d9@radiobanter.com> <slrnkeahna.jrc.nomail@xs8.xs4all.nl>
<1qednTX_gawsPHjNnZ2dnUVZ_qadnZ2d@earthlink.com>
<Channel.Jumper.b2d1778@radiobanter.com> <slrnkefpl6.9ch.nomail@xs8.xs4all.nl>
<quWdne8u3MZ_1nXNnZ2dnUVZ_u2dnZ2d@earthlink.com>
<GL2dndFFE8NJ5HfNnZ2dnUVZ5qKdnZ2d@giganews.com>
<fast-04AC0F.10252107012013@news.starband.net>
<SMidnbZlSsofOHbNnZ2dnUVZ5vWdnZ2d@giganews.com>
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
Date: Wed, 09 Jan 2013 14:49:55 -0900
Message-ID: <fast-2942D1.14494709012013@news.starband.net>
X-Complaints-To: abuse@usenetserver.com
Lines: 31
X-Trace: 6f1bc50ee022631e5901f00938
X-Received-Bytes: 2063

In article <SMidnbZlSsofOHbNnZ2dnUVZ5vWdnZ2d@giganews.com>,
"coffelt2" <coffelt2@comcast.net> wrote:

> >> .> Been an Extra class ham for over 10 years.
> >> > Repaired the CB radios for several years to about 1976 to pick up some
> >> > spending money.
> >>
> >> Hi, Ralph, am enjoying the give and take here! I also repaired CB radios
> >> for extra meat on the table in the mid 1960's. Extra class very nearly
> >> 43 years! First class Radiotelephone licensed about the same time,
> >> Don't let "em get to 'ya! You've "been there, done that"!
> >>
> >> Hooooyah!
> >>
> >> Old Chief Lynn, W7LTQ
> >
> > Hey Lynn, Long time no chat.....
> >
> > --
> > Bruce in Alaska   add path before the @ for email
>
> Good to hear 'ya, Bruce!
> Wait'n for 10 meters to open...... any hope?
>
> Old Chief Lynn

Well not anytime soon, unless Mr. Sun gets a lot more active.....
So far this cycle has been a BUST....

--
Bruce in Alaska   add path before the @ for email

```
From 5066832928256268210
X-Google-Thread: fc2a5,93dea2afad50ea8d,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.86.166 with SMTP id q6mr12989781paz.44.1357953209432;
        Fri, 11 Jan 2013 17:13:29 -0800 (PST)
MIME-Version: 1.0
Received: by 10.50.154.132 with SMTP id vo4mr443614igb.7.1357953209395; Fri,
 11 Jan 2013 17:13:29 -0800 (PST)
Path: 6ni101888pbd.1!nntp.google.com!f6no3222340pbd.1!postnews.google.com!
xm8g2000pbc.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Fri, 11 Jan 2013 17:13:29 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: xm8g2000pbc.googlegroups.com; posting-host=117.199.247.147;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
NNTP-Posting-Host: 117.199.247.147
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:17.0) Gecko/20100101 Firefox/
17.0,gzip(gfe)
Message-ID: <3e5de835-6988-48f1-9390-5f5bfbd9218d@xm8g2000pbc.googlegroups.com>
Subject: INDIAN MALLU HOT VIDEOS AND ALL LIP KISS PHOTOS SE33
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Injection-Date: Sat, 12 Jan 2013 01:13:29 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

TOLLYWOOD HOT
http://tbiphotos.blogspot.in/2013/01/tollywood-hot.html
TAMIL HOT
http://tbiphotos.blogspot.in/2013/01/tamil-hot.html
MALLU HOT
http://tbiphotos.blogspot.in/2013/01/mallu-hot.html
BOLLYWOOD HOT
http://tbiphotos.blogspot.in/2013/01/bollywood-hot.html
INDIAN HOT
http://tbiphotos.blogspot.in/2013/01/indian-hot.html
MALLU KISS
http://tbiphotos.blogspot.in/2013/01/mallu-kiss.html
TOLLYWOOD KISS
http://tbiphotos.blogspot.in/2013/01/tollywood-kiss.html
TAMIL LIP KISS
http://tbiphotos.blogspot.in/2013/01/tamil-lip-kiss.html
BOOLYWOOD LIP KISS
http://tbiphotos.blogspot.in/2013/01/boolywood-lip-kiss.html
INDIAN LIP KISS

http://tbiphotos.blogspot.in/2013/01/indian-lip-kiss.html
INDIAN REAL LIP KISS
http://tbiphotos.blogspot.in/2013/01/indian-real-lip-kiss.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.in/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.in/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.in/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.in2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.in/2009/02/dotnet-questions-3.html

```
From 5218250695011498204
X-Google-Thread: a4a23d5f63,d538867e6c6741c9,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.224.72.199 with SMTP id n7mr55049220qaj.5.1358233203648;
        Mon, 14 Jan 2013 23:00:03 -0800 (PST)
MIME-Version: 1.0
Path: k2ni68qap.0!nntp.google.com!newsfeed2.dallas1.level3.net!news.level3.com!
panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1357023601@panix.com>
Followup-To: poster
Date: 15 Jan 2013 02:00:02 -0500
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 02 Feb 2013 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1358233201@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1358233203 18412 166.84.1.2 (15 Jan 2013 07:00:03 GMT)
X-Complaints-To: abuse@panix.com
```

NNTP-Posting-Date: Tue, 15 Jan 2013 07:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted twice monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. After a successful trial |
period (90 days, through early July 2009), we decided to adopt this |
change permanently. |

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From 5590978461340564024
X-Google-Thread: 241b302a50,600ae182d77407ca,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.74.141 with SMTP id t13mr975388wiv.5.1359079667799;
        Thu, 24 Jan 2013 18:07:47 -0800 (PST)
MIME-Version: 1.0
Path: i11ni18218wiw.0!nntp.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
194.109.133.86.MISMATCH!newsfeed.xs4all.nl!newsfeed3.news.xs4all.nl!xs4all!
xlned.com!feeder3.xlned.com!npeer.de.kpn-eurorings.net!npeer-ng0.de.kpn-
eurorings.net!news.bawue.net!storethat.news.telefonica.de!telefonica.de!
newsout01.versatel.de!newsin01.versatel.de!texta.sil.at!news.ett.com.ua!gin-ad1-
unet1.teleglobe.net!novia!news-out.readnews.com!news-xxxfer.readnews.com!
nx02.iad01.newshosting.com!newshosting.com!69.16.185.16.MISMATCH!
npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!border3.nntp.dca.giganews.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 18 Jan 2013 17:02:58 -0600
From: vu2nan <vu2nan.b3f8c78@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Headlight bulb load quickfix
Date: Fri, 18 Jan 2013 19:11:56 +0000
Message-ID: <vu2nan.b3f8c78@radiobanter.com>
Organization: RadioBanter.com
Lines: 13
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-2gLy+KOGDh5UE2WR6crLZPzlqCDdMVoUW06n55/
gvuEpVFyTkjEBPXA1ZWAQ9iJS+yI3qPiazkLXTyl!zr8LMBHn/
MQ+s2DjWmuUWXBgakgMWXWRhqFjpX9WjIQsAQqyMsqwkc0RF1TS64EgtqDpfDK9NuLc!qplc
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 7
X-Original-Bytes: 986
X-Received-Bytes: 1148
```

Here's the link.

http://tinyurl.com/byhtv8z

73,

Nandu.

--
vu2nan

```
From -4354500791488553624
X-Google-Thread: 241b302a50,600ae182d77407ca
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.83.101 with SMTP id p5mr977006wiy.0.1359079658484;
        Thu, 24 Jan 2013 18:07:38 -0800 (PST)
Path: i11ni18217wiw.0!nntp.google.com!feeder1.cambriumusenet.nl!
82.197.223.108.MISMATCH!feeder2.cambriumusenet.nl!feeder3.cambriumusenet.nl!
feed.tweaknews.nl!193.141.40.65.MISMATCH!npeer.de.kpn-eurorings.net!npeer-
ng0.de.kpn-eurorings.net!news.bawue.net!storethat.news.telefonica.de!
telefonica.de!news-2.dfn.de!news.dfn.de!newsfeed.straub-nv.de!news.glorb.com!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-
mail
NNTP-Posting-Date: Fri, 18 Jan 2013 23:49:23 -0600
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <vu2nan.b3f8c78@radiobanter.com>
In-Reply-To: <vu2nan.b3f8c78@radiobanter.com>
Subject: Re: Headlight bulb load quickfix
Date: Fri, 18 Jan 2013 21:49:25 -0800
MIME-Version: 1.0
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18463
Message-ID: <EImdnczCp-F5rmfNnZ2dnUVZ5sCdnZ2d@giganews.com>
Lines: 23
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-w0j35wAjjwEnwx40JaLPsP+kmilwCxgGjNwyyEMoXWLEqY2fkQIPmNIznT/
Mr4gAoJTtLyDbj6bsjZP!
BGkU2Iu8xuNVFle6Iz5rBRAC2x1meiwxXNJjIG4i9wtv6R6f0iUBfeh4kug0AfJ7CL+MNF/urw==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1579
Content-Type: text/plain;
     format=flowed;
     charset="Windows-1252";
     reply-type=original
Content-Transfer-Encoding: 7bit
```

I really could have used that trick a few months ago..... same problem you encountered!

```
Old Chief Lynn, W7LTQ


"vu2nan" <vu2nan.b3f8c78@radiobanter.com> wrote in message
news:vu2nan.b3f8c78@radiobanter.com...
>
> Here's the link.
>
> http://tinyurl.com/byhtv8z
>
> 73,
>
> Nandu.
>
>
>
>
> --
> vu2nan




From -7817572166887020180
X-Google-Thread: 241b302a50,898f32fc115bdac2,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.224.72.199 with SMTP id n7mr6892677qaj.5.1358595732939;
        Sat, 19 Jan 2013 03:42:12 -0800 (PST)
X-Received: by 10.49.75.9 with SMTP id y9mr2765308qev.9.1358595732829; Sat, 19
 Jan 2013 03:42:12 -0800 (PST)
Path: k2ni675qap.0!nntp.google.com!p13no1419924qai.0!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Sat, 19 Jan 2013 03:42:12 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=188.190.127.67;
 posting-account=lpvsOQoAAADrItjCNLUGUA4f5NKzjLsd
NNTP-Posting-Host: 188.190.127.67
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <8529c906-b7b2-4781-acf6-38df2854b554@googlegroups.com>
Subject: Vanessa Lane  Intensitivity 6  Scene 1
From: Iran <tamarmadgecay@gmail.com>
Injection-Date: Sat, 19 Jan 2013 11:42:12 +0000
Content-Type: text/plain; charset=ISO-8859-1

Vanessa Lane  Intensitivity 6  Scene 1  http://blowjob-date.blogspot.com/2012/12/
vanessa-lane-intensitivity-6-scene-1.html


From -1706034962215279293
```

```
X-Google-Thread: fc2a5,600ae182d77407ca
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.66.72.232 with SMTP id g8mr1621254pav.23.1358614955193;
        Sat, 19 Jan 2013 09:02:35 -0800 (PST)
MIME-Version: 1.0
Path: s9ni6703pbb.0!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 19 Jan 2013 11:02:34 -0600
From: vu2nan <vu2nan.b408998@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Headlight bulb load quickfix
Date: Sat, 19 Jan 2013 15:09:20 +0000
Message-ID: <vu2nan.b408998@radiobanter.com>
Organization: RadioBanter.com
User-Agent: 
X-Newsreader: 
X-Originating-IP: 
References: <vu2nan.b3f8c78@radiobanter.com> <EImdnczCp-
F5rmfNnZ2dnUVZ5sCdnZ2d@giganews.com>
Lines: 42
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
iR4IFo9JAN222Hmp1PXqGJIXOVGKzb78naDcQ2F5PdSnrS5LqJ01btdUOfebJYJnZR0ydWceXzGdtoj!
n45vTUHD4UqJ8d3iaTLg0G96x4NnyoJEf/mRsilS3hVyU+A+tDOCgYz/K2jkYR3X8LOYmTZCYcgk!Gwzw
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1689
X-Original-Lines: 32
X-Original-Bytes: 1606
```

Hi Old Chief Lynn,

I faced it earlier too with a 20A supply. It didn't strike me then and I
had to be content with partial loading on CW using an old Yaesu
FT-747GX.

Many thanks.

73,

Nandu.

coffelt2;800891 Wrote:

> I really could have used that trick a few months ago..... same problem
> you
> encountered!

```
>
> Old Chief Lynn, W7LTQ
>
>
> "vu2nan" vu2nan.b3f8c78@radiobanter.com wrote in message
> news:vu2nan.b3f8c78@radiobanter.com...-
>
> Here's the link.
>
> http://tinyurl.com/byhtv8z
>
> 73,
>
> Nandu.
>
>
>
>
> --
> vu2nan -




--
vu2nan


From 6103095481928398 47
X-Google-Thread: 241b302a50,93dea2afad50ea8d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.180.93.134 with SMTP id cu6mr1011407wib.5.1359079779150;
        Thu, 24 Jan 2013 18:09:39 -0800 (PST)
Path: o9ni18201wio.1!nntp.google.com!feeder1.cambriumusenet.nl!
82.197.223.103.MISMATCH!feeder3.cambriumusenet.nl!feed.tweaknews.nl!
193.141.40.65.MISMATCH!npeer.de.kpn-eurorings.net!npeer-ng0.de.kpn-eurorings.net!
news.bawue.net!storethat.news.telefonica.de!telefonica.de!news-1.dfn.de!
news.dfn.de!news.uni-stuttgart.de!news.unit0.net!news.glorb.com!
newsfeed-3001.bay.webtv.net!newssorter-3001.bay.webtv.net!not-for-mail
From: ogrowup@webtv.net (Padraigh ProAmerica)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: INDIAN MALLU HOT VIDEOS AND ALL LIP KISS PHOTOS SE33
Date: Sat, 19 Jan 2013 18:31:30 -0500
Organization: WebTV Subscriber
Lines: 12
Message-ID: <21226-50FB2CD2-162@storefull-3173.bay.webtv.net>
References: <3e5de835-6988-48f1-9390-5f5bfbd9218d@xm8g2000pbc.googlegroups.com>
NNTP-Posting-Host: localhost.webtv.net
Mime-Version: 1.0 (WebTV)
X-WebTV-Signature: 1
     ETAtAhUAj6FBHDkxhy8ggCDbyC5ns/IqUcUCFH8rkUMJWIPGVsulbvSbyJlgw3YY
```

Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
Content-Disposition: Inline

Lip kisses?

There are videos/ images on the web that would shock Larry Flynt.

Loser.

--
"A man who can own a gun is a citizen. A man who cannot own a gun is a subject."--

Unknown

From -3893609657810995397
X-Google-Thread: 241b302a50,ef0a155a15e2887f,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.224.198.196 with SMTP id ep4mr8804267qab.3.1358695486676;
        Sun, 20 Jan 2013 07:24:46 -0800 (PST)
MIME-Version: 1.0
X-Received: by 10.49.95.68 with SMTP id di4mr3206616qeb.0.1358695486658; Sun,
 20 Jan 2013 07:24:46 -0800 (PST)
Path: k2ni1557qap.0!nntp.google.com!p13no5567520qai.0!postnews.google.com!ck1g2000vbb.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Sun, 20 Jan 2013 07:24:46 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: ck1g2000vbb.googlegroups.com; posting-host=69.14.52.106; posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
NNTP-Posting-Host: 69.14.52.106
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1) AppleWebKit/537.17 (KHTML, like
 Gecko) Chrome/24.0.1312.52 Safari/537.17,gzip(gfe)
Message-ID: <c0533393-1c57-4252-9ff4-36b871cb782f@ck1g2000vbb.googlegroups.com>
Subject: PCB123 tutorial ne1?
From: raypsi <rborowiak@gmail.com>
Injection-Date: Sun, 20 Jan 2013 15:24:46 +0000
Content-Type: text/plain; charset=ISO-8859-1

I want to make a minus 400vdc supply for my grounded screen QRO PA. I have iron on resist for masking, for solder masking silk screening and PCB etching I'd like to make it look professional. The Solder Masking Iron on is blue and can be used to etch and silk screen I have 5 sheets of 8.5X11. I have PCB material and ferric chloride

I thought PCB123 had schematic layouts that went to PCB layouts so I could just print that on clear mylar on my printer and expose it to

```
the iron on resist.

I could do every thing by hand then I need a drafting table.

Anybody have a link to a good tutorial?

 I got laptop wit 32bit XP pro and an HP printer


From 7058998452128016306
X-Google-Thread: 241b302a50,b872e2b3808aea6,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
X-Received: by 10.224.192.199 with SMTP id dr7mr8939033qab.4.1358699513591;
        Sun, 20 Jan 2013 08:31:53 -0800 (PST)
X-Received: by 10.49.58.167 with SMTP id s7mr3275223qeq.5.1358699513495; Sun,
 20 Jan 2013 08:31:53 -0800 (PST)
Path: k2ni1457qap.0!nntp.google.com!p13no3753549qai.0!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Sun, 20 Jan 2013 08:31:53 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=188.190.124.72;
 posting-account=lpvsOQoAAADrItjCNLUGUA4f5NKzjLsd
NNTP-Posting-Host: 188.190.124.72
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <689825bd-b38d-4dce-ac4a-7c37c2516161@googlegroups.com>
Subject: Asian gets pounded hard at school
From: Iran <tamarmadgecay@gmail.com>
Injection-Date: Sun, 20 Jan 2013 16:31:53 +0000
Content-Type: text/plain; charset=ISO-8859-1

 Asian gets pounded hard at school   http://t.co/LBQdX7JO


From 1451856341829085869
X-Google-Thread: 241b302a50,b8cd453f3c7126ce
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.180.205 with SMTP id bv13mr1424504qab.8.1343315662254;
        Thu, 26 Jul 2012 08:14:22 -0700 (PDT)
Received: by 10.66.85.162 with SMTP id i2mr1798939paz.30.1343315244774;
        Thu, 26 Jul 2012 08:07:24 -0700 (PDT)
Path: a15ni113198934qag.0!nntp.google.com!q21no4410077qas.0!news-out.google.com!
p10ni64965027pbh.1!nntp.google.com!border1.nntp.dca.giganews.com!news-
in-01.newsfeed.easynews.com!easynews.com!easynews!novia!news-peer1!btnet!
zen.net.uk!hamilton.zen.co.uk!xlned.com!feeder5.xlned.com!feed.xsnews.nl!
border-1.ams.xsnews.nl!newsfeed.straub-nv.de!de-l.enfer-du-nord.net!feeder2.enfer-
du-nord.net!news.bbs-scene.org!border4.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!postnews.google.com!
```

```
glegroupsg2000goo.googlegroups.com!not-for-mail
From: datakoll@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: piezo buzzer
Date: Sun, 22 Jul 2012 21:26:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 7
Message-ID: <e6935565-9efa-42fa-a15c-092e2d96d068@googlegroups.com>
References: <3afeb411-ec2c-42b4-ae05-bdd3ebaa6706@googlegroups.com>
 <pt2p085655fc1mt3jgue9dsodr84hg48kr@4ax.com>
<Pine.LNX.4.64.1207222240060.13323@darkstar.example.net>
NNTP-Posting-Host: 166.250.9.178
Mime-Version: 1.0
X-Trace: posting.google.com 1343017677 4873 127.0.0.1 (23 Jul 2012 04:27:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 23 Jul 2012 04:27:57 +0000 (UTC)
In-Reply-To: <Pine.LNX.4.64.1207222240060.13323@darkstar.example.net>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=166.250.9.178;
 posting-account=J5Sc3AoAAABMwl5HpBrgZ-bUWXuec0ps
User-Agent: G2/1.0
X-Received-Bytes: 1705
Bytes: 1809
Content-Type: text/plain; charset=ISO-8859-1
```

I have a nice auto multimeter. The continuity buzzer's out so I wanted to test it, replace with a radio shack element.

The meter turned itsself on inside the snapbox. Apparemtly the contacs touched killing the buzzer or driver.

When I tried it last, the buzzer buzzed twice then died.

Positive inside contact circle or outside ring ? Probably a standard

```
From -2902567107840279627
X-Google-Thread: 241b302a50,b8cd453f3c7126ce
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.130.7 with SMTP id q7mr4249900bks.2.1343132854571;
        Tue, 24 Jul 2012 05:27:34 -0700 (PDT)
MIME-Version: 1.0
Path: m12ni20362bkm.0!nntp.google.com!news1.google.com!news4.google.com!
feeder3.cambriumusenet.nl!94.232.116.11.MISMATCH!feed.xsnews.nl!
border-1.ams.xsnews.nl!newsfeed.pionier.net.pl!news.man.lodz.pl!news.nask.pl!
news.nask.org.pl!goblin3!gin-ad1-unet1.teleglobe.net!goblin2!goblin.stu.neva.ru!
feeder.erje.net!xlned.com!feeder3.xlned.com!feeder2.cambriumusenet.nl!
feed.tweaknews.nl!209.197.12.246.MISMATCH!nx02.iad01.newshosting.com!
newshosting.com!69.16.185.11.MISMATCH!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
```

```
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 23 Jul 2012 00:03:21 -0500
From: vu2nan <vu2nan.a5292d8@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: piezo buzzer
Date: Mon, 23 Jul 2012 04:13:21 +0000
Message-ID: <vu2nan.a5292d8@radiobanter.com>
Organization: RadioBanter.com
References: <3afeb411-ec2c-42b4-ae05-bdd3ebaa6706@googlegroups.com>
Lines: 14
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-i57lfSv4mrKg8ZXL70KAyAAlR852HC4zzXztHuD/
XN7mv8Qetn5wSNweOZDpORxcaP6Pfu5g198HP48!
vi0FGEVaRcmzsXwCR+t16n2/9kmbwMjcxkEU12XexR4heUjLgResDiiI5TFGfBQYjoiX2dzlnddb!GlQW
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 5
X-Original-Bytes: 1342
X-Received-Bytes: 1505


datakoll@yahoo.com;793804 Wrote:
> what is postive and negative on a round buzzer where contacs are an
> inside center circle and an outside ring  ?
>
> or does positive and negative matter with a piezo buzzer ?

I suppose you are referring to the piezo element alone. In that case the
answer is 'no polarity' as the element responds to an ac signal only.




--
vu2nan



From -8438329500443608930
X-Google-Thread: 241b302a50,b8cd453f3c7126ce
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.177.12 with SMTP id bg12mr1499709qab.0.1343317274264;
        Thu, 26 Jul 2012 08:41:14 -0700 (PDT)
Received: by 10.66.72.73 with SMTP id b9mr1645737pav.9.1343315638881;
        Thu, 26 Jul 2012 08:13:58 -0700 (PDT)
Path: a15ni113198934qag.0!nntp.google.com!q21no7680903qas.0!news-out.google.com!
b9ni60415685pbl.0!nntp.google.com!npeer01.iad.highwinds-media.com!news.highwinds-
media.com!feed-me.highwinds-media.com!news-in-01.newsfeed.easynews.com!
```

```
easynews.com!easynews!novia!feeder3.cambriumusenet.nl!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!85.12.40.138.MISMATCH!xlned.com!feeder5.xlned.com!
feed.xsnews.nl!border-1.ams.xsnews.nl!newsfeed.straub-nv.de!reality.xs3.de!nntp-
feed.chiark.greenend.org.uk!ewrotcd!newsfeed.hal-mli.net!feeder3.hal-mli.net!
newsfeed.hal-mli.net!feeder1.hal-mli.net!border3.nntp.dca.giganews.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 23 Jul 2012 00:29:46 -0500
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <3afeb411-ec2c-42b4-ae05-bdd3ebaa6706@googlegroups.com>
In-Reply-To: <3afeb411-ec2c-42b4-ae05-bdd3ebaa6706@googlegroups.com>
Subject: Re: piezo buzzer
Date: Sun, 22 Jul 2012 22:29:40 -0700
MIME-Version: 1.0
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18463
Message-ID: <Esidnb8UjbzXfJHNnZ2dnUVZ5sWdnZ2d@giganews.com>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-ZPxlspzXyoC5DYJiMtUf+psv5x8qthuaVFXymmKOHh3PaEW/
rGULryrzDwEtpPLxxztaMSYSEjpiv09!1p/
i1zrsDqXrEBL4RoWjdvD56HFXiEifqm52dmaeTf5fw7gSYdYFoqEorS6pi4aSvX8IqE+JOA==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2166
X-Received-Bytes: 2697
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
```

OK, this is not the answer, but a little tale about piezo buzzers.

I got a new "stud finder" (for locating wall studs in a building). It was superb! Got the job done. Three or
four years later, I had occasion to use it again. Worked fine, except the "buzzer" didn't sound. Tore it down
and found the little devil piezo element. Located a similar Radio Shack element, and replaced the original.
Still didn't work. SWMBO said "hope you get tired of playing with that noisy thing"....... HUH?
Well, piezo worked just fine. Ears had aged embarrassingly.

Old Chief Lynn, W7LTQ

```
<datakoll@yahoo.com> wrote in message
news:3afeb411-ec2c-42b4-ae05-bdd3ebaa6706@googlegroups.com...
>
> what is postive and negative on a round buzzer where contacs are an inside
> center circle and an outside ring  ?
>
> or does positive and negative matter with a piezo buzzer ?



From -1584657937206860089
X-Google-Thread: 241b302a50,b8cd453f3c7126ce
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.77.35 with SMTP id p3mr1657232paw.44.1343317511066;
        Thu, 26 Jul 2012 08:45:11 -0700 (PDT)
Path: p10ni64698300pbh.1!nntp.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!
border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!novia!news-peer1!
btnet!zen.net.uk!hamilton.zen.co.uk!xlned.com!feeder1.xlned.com!
newsfeed.xs4all.nl!newsfeed5.news.xs4all.nl!xs4all!border4.nntp.ams.giganews.com!
border2.nntp.ams.giganews.com!border3.nntp.ams.giganews.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!newsfeed.straub-nv.de!
reality.xs3.de!news.stack.nl!nuzba.szn.dk!pnx.dk!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <knock_yourself_out@example.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: piezo buzzer
Date: 23 Jul 2012 14:05:26 GMT
Lines: 11
Message-ID: <slrnk0qmh3.jhm.knock_yourself_out@shell.config.com>
References: <3afeb411-ec2c-42b4-ae05-bdd3ebaa6706@googlegroups.com>
 <vu2nan.a5292d8@radiobanter.com>
Reply-To: If you must, <Reply_to@my.sig.adr>
Mime-Version: 1.0
X-Trace: individual.net +m/7TcLuCLtg+8pM7BOxQgzdasx6SdePG+WjaWaBEwhcy7VdhM/
ZDhYombl0jvkWRv
Cancel-Lock: sha1:rvKXtronqmDer5H9vbxw6zB9nsk=
User-Agent: slrn/0.9.9p1 (FreeBSD)
Bytes: 1536
X-Received-Bytes: 1644
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Mon, 23 Jul 2012 04:13:21 +0000, vu2nan wrote:
> datakoll@yahoo.com;793804 Wrote:
>> what is postive and negative on a round buzzer where contacs are an
>> inside center circle and an outside ring  ?
>>
>> or does positive and negative matter with a piezo buzzer ?
>
```

```
> I suppose you are referring to the piezo element alone. In that case the
> answer is 'no polarity' as the element responds to an ac signal only.

... or pulsed DC.


From -4673625117707536230
X-Google-Thread: 241b302a50,b8cd453f3c7126ce
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.76.99 with SMTP id j3mr343504paw.45.1343316641754;
        Thu, 26 Jul 2012 08:30:41 -0700 (PDT)
Path: p10ni61947386pbh.1!nntp.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!
border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
novia!news-peer1!btnet!zen.net.uk!hamilton.zen.co.uk!xlned.com!feeder3.xlned.com!
feeder3.cambriumusenet.nl!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
94.232.116.11.MISMATCH!feed.xsnews.nl!border-1.ams.xsnews.nl!newsfeed.straub-
nv.de!news.linkpendium.com!news.linkpendium.com!news.snarked.org!
newsfeed.news.ucla.edu!usenet.stanford.edu!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
From: datakoll@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: piezo buzzer
Date: Mon, 23 Jul 2012 13:13:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <a5b84a2c-9dc0-49ef-99e0-04541859823d@googlegroups.com>
References: <3afeb411-ec2c-42b4-ae05-bdd3ebaa6706@googlegroups.com>
<vu2nan.a5292d8@radiobanter.com>
NNTP-Posting-Host: 166.250.11.158
Mime-Version: 1.0
X-Trace: posting.google.com 1343074403 1246 127.0.0.1 (23 Jul 2012 20:13:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 23 Jul 2012 20:13:23 +0000 (UTC)
In-Reply-To: <vu2nan.a5292d8@radiobanter.com>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=166.250.11.158;
 posting-account=J5Sc3AoAAABMwl5HpBrgZ-bUWXuec0ps
User-Agent: G2/1.0
Bytes: 1945
X-Received-Bytes: 2053
Content-Type: text/plain; charset=ISO-8859-1

On Sunday, July 22, 2012 9:13:21 PM UTC-7, vu2nan wrote:
> datakoll@yahoo.com;793804 Wrote:
> &gt; what is postive and negative on a round buzzer where contacs are an
> &gt; inside center circle and an outside ring  ?
> &gt;
> &gt; or does positive and negative matter with a piezo buzzer ?
>
```

> I suppose you are referring to the piezo element alone. In that case the
> answer is &#39;no polarity&#39; as the element responds to an ac signal only.
>
>
>
>
> --
> vu2nan

there's an inverter inside my multimeter ? why are peizo buzzers listed in Radio Shack under DC voltages ?

```
From -4815658049430316605
X-Google-Thread: 241b302a50,b8cd453f3c7126ce
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.77.39 with SMTP id p7mr1557598paw.0.1343316687200;
        Thu, 26 Jul 2012 08:31:27 -0700 (PDT)
Path: b9ni65120068pbl.0!nntp.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!novia!news-peer1!btnet!zen.net.uk!hamilton.zen.co.uk!xlned.com!
feeder3.xlned.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
94.232.116.11.MISMATCH!feed.xsnews.nl!border-1.ams.xsnews.nl!newsfeed.straub-
nv.de!news.linkpendium.com!news.linkpendium.com!news.glorb.com!
npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!postnews.google.com!glegroupsg2000goo.googlegroups.com!not-for-mail
From: datakoll@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: piezo buzzer
Date: Mon, 23 Jul 2012 13:18:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 5
Message-ID: <8dec9f08-fc9e-44f2-8e5c-929caf0cff04@googlegroups.com>
References: <3afeb411-ec2c-42b4-ae05-bdd3ebaa6706@googlegroups.com>
<Esidnb8UjbzXfJHNnZ2dnUVZ5sWdnZ2d@giganews.com>
NNTP-Posting-Host: 166.250.11.158
Mime-Version: 1.0
X-Trace: posting.google.com 1343074690 4247 127.0.0.1 (23 Jul 2012 20:18:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 23 Jul 2012 20:18:10 +0000 (UTC)
In-Reply-To: <Esidnb8UjbzXfJHNnZ2dnUVZ5sWdnZ2d@giganews.com>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=166.250.11.158;
 posting-account=J5Sc3AoAAABMwl5HpBrgZ-bUWXuec0ps
User-Agent: G2/1.0
X-Received-Bytes: 1402
Bytes: 1760
Content-Type: text/plain; charset=ISO-8859-1
```

for Ears, H202...

I lost a Wal Multimeter, giving a negative rating, when packing for a Xrosscountry trip. The meter was packed deep. It began screaming on Texas 1016 (?). bing bong bing....and down there it died.

The silent one now is an Acton from Summit Racing. It needs revival. I hope the buzzers dead so the prebuzz circuit remains alive.

```
From 613633544259147866
X-Google-Thread: 241b302a50,b8cd453f3c7126ce
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.186.143 with SMTP id cs15mr1229363qab.3.1343312385925;
        Thu, 26 Jul 2012 07:19:45 -0700 (PDT)
Received: by 10.66.86.72 with SMTP id n8mr1684572paz.24.1343312385847;
        Thu, 26 Jul 2012 07:19:45 -0700 (PDT)
Path: a15ni105485768qag.0!nntp.google.com!q21no13160019qas.0!news-out.google.com!
b9ni64702982pbl.0!nntp.google.com!border1.nntp.dca.giganews.com!
border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
novia!news-peer1!btnet!zen.net.uk!hamilton.zen.co.uk!xlned.com!feeder5.xlned.com!
ramfeed-2.ams.xsnews.nl!feed.xsnews.nl!border-3.ams.xsnews.nl!newsfeed.straub-
nv.de!news.ett.com.ua!feeder.erje.net!newsfeed.xs4all.nl!newsfeed6.news.xs4all.nl!
xs4all!newsgate.cistron.nl!newsgate.news.xs4all.nl!news.nosignal.org!
news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: piezo buzzer
Date: Mon, 23 Jul 2012 18:59:57 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 22
Sender: et472@72.0.192.100
Message-ID: <Pine.LNX.4.64.1207231857430.12271@darkstar.example.net>
References: <3afeb411-ec2c-42b4-ae05-bdd3ebaa6706@googlegroups.com>
 <pt2p085655fc1mt3jgue9dsodr84hg48kr@4ax.com>
<Pine.LNX.4.64.1207222240060.13323@darkstar.example.net>
 <e6935565-9efa-42fa-a15c-092e2d96d068@googlegroups.com>
NNTP-Posting-Host: 72.0.192.100
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1343084517 13578 72.0.192.100 (23 Jul 2012 23:01:57 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 23 Jul 2012 23:01:57 GMT
In-Reply-To: <e6935565-9efa-42fa-a15c-092e2d96d068@googlegroups.com>
Bytes: 2194
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
```

On Sun, 22 Jul 2012, datakoll@yahoo.com wrote:

> I have a nice auto multimeter. The continuity buzzer's out so I wanted
> to test it, replace with a radio shack element.
>
> The meter turned itsself on inside the snapbox. Apparemtly the contacs
> touched killing the buzzer or driver.
>

But you should never keep a meter on ohms or continuity. Because those are vulnerable ranges. You turn it on and measure some voltage, and bang you blew a fuse if you were lucky, you've damaged the meter if you weren't lucky. Keep it on a voltage range, which can handle anything that would come across the leads. Put it on a higher voltage range if you really worry, though the meter should be protected for overvoltage.

Michael VE2BVW

> When I tried it last, the buzzer buzzed twice then died. >
> Positive inside contact circle or outside ring ? Probably a standard
>

From 7381427730193946827
X-Google-Thread: 241b302a50,b8cd453f3c7126ce
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.77.101 with SMTP id r5mr1492199paw.27.1343312434224;
        Thu, 26 Jul 2012 07:20:34 -0700 (PDT)
MIME-Version: 1.0
Path: b9ni60415685pbl.0!nntp.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!postnews.google.com!
news4.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
85.12.40.138.MISMATCH!xlned.com!feeder5.xlned.com!feed.xsnews.nl!
border-3.ams.xsnews.nl!newsfeed.straub-nv.de!news.ett.com.ua!gin-ad1-
unet1.teleglobe.net!goblin1!goblin.stu.neva.ru!ottix-news.ottix.net!nrc-
news.nrc.ca!border3.nntp.dca.giganews.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 23 Jul 2012 18:03:53 -0500
From: vu2nan <vu2nan.a538ff9@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: piezo buzzer
Date: Mon, 23 Jul 2012 18:19:20 +0000
Message-ID: <vu2nan.a538ff9@radiobanter.com>
Organization: RadioBanter.com
References: <3afeb411-ec2c-42b4-ae05-
bdd3ebaa6706@googlegroups.com><vu2nan.a5292d8@radiobanter.com>
<slrnk0qmh3.jhm.knock_yourself_out@shell.config.com>
Lines: 21
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Qe1Go3SmPcUxGCQIf0Ll3ty8bNGKT0CfOR/
GPJh+1c+VusdIgukhQHgF+ePNzPJLx+XChO6OgZooo5a!
Tx5Lj1EvrjRn+K3EyovUhMj189CIbBMvzbnI7OT0F38Ju4LoA9skB9z/PoilW2Yjk8Uo50EER3F/!J5/7
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40

```
X-Original-Lines: 13
X-Original-Bytes: 1587
X-Received-Bytes: 2054
```

'Allodoxaphobia[_2_ Wrote:
> ;793853']On Mon, 23 Jul 2012 04:13:21 +0000, vu2nan wrote:-
> datakoll@yahoo.com;793804 Wrote: -
> what is postive and negative on a round buzzer where contacs are an
> inside center circle and an outside ring ?
>
> or does positive and negative matter with a piezo buzzer ?-
>
> I suppose you are referring to the piezo element alone. In that case
> the
> answer is 'no polarity' as the element responds to an ac signal only.-
>
> .... or pulsed DC.

Correct! Pulsed DC too!

--
vu2nan

```
From -2049554746772573796
X-Google-Thread: 241b302a50,54517da5849339e1,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.84.65 with SMTP id w1mr1484117pay.37.1343318109137;
        Thu, 26 Jul 2012 08:55:09 -0700 (PDT)
Path: p10ni65244122pbh.1!nntp.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
82.197.223.103.MISMATCH!feeder3.cambriumusenet.nl!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!94.232.116.11.MISMATCH!feed.xsnews.nl!border-1.ams.xsnews.nl!
newsfeed.straub-nv.de!news.ett.com.ua!zen.net.uk!dedekind.zen.co.uk!
news.glorb.com!news-out.readnews.com!transit3.readnews.com!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
From: Sean_VN <bitterlemon40@yahoo.ie>
Newsgroups: rec.radio.amateur.homebrew
Subject: Numerical Optimizer (solver) for LTSpice IV
Date: Mon, 23 Jul 2012 18:33:23 -0700 (PDT)
Organization: http://groups.google.com
Lines: 20
Message-ID: <a7193be1-a5ee-499a-95ff-34d222909b01@googlegroups.com>
NNTP-Posting-Host: 113.190.175.103
Mime-Version: 1.0
X-Trace: posting.google.com 1343094626 13330 127.0.0.1 (24 Jul 2012 01:50:26 GMT)
X-Complaints-To: groups-abuse@google.com
```

```
NNTP-Posting-Date: Tue, 24 Jul 2012 01:50:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=113.190.175.103;
 posting-account=7x6AcwoAAAANV7u8W0BE7ye1MHET79y6
User-Agent: G2/1.0
Bytes: 2505
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

I have written a numerical optimizer (solver) for LTSpice.  It automaticall=
y adjusts component values to meet circuit performance targets you set.  Fo=
r example maximum power output and minimum supply current.  It uses a fast =
evolutionary algorithm to get good results quickly. You can get good result=
s in anything from 5 minutes to a few hours depending on the complexity of =
the circuit.  It is much faster and better than using any of the genetic al=
gorithms available or the Simplex method. =20
Anyway I have provided a free trial usable until 5 August with a 3000 itera=
tion limit.  I am thinking about providing a 3 month trial with an iteratio=
n limit of about 500 afterwards.
You can try it here:
http://www.evospice.site88.net/evospice/evospice.html
I think it is a good add-on to LTSpice for homebrewers.  It can help you de=
sign filter circuits, rf circuits and many other things. It would be a bit =
complicated for beginners because it uses things like .measure in LTSpice. =
 For the more advanced homebrewer it could be ideal.  If your ham-radio clu=
b would like a special evaluation version they can send me an e-mail at the=
 address given on the web-site.
Best Regards,
Sean O'Connor


From 3555710890777382000
X-Google-Thread: 241b302a50,b8cd453f3c7126ce
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.180.75.8 with SMTP id y8mr1304121wiv.4.1343314521819;
        Thu, 26 Jul 2012 07:55:21 -0700 (PDT)
Received: by 10.224.138.146 with SMTP id a18mr1373382qau.6.1343314521748;
        Thu, 26 Jul 2012 07:55:21 -0700 (PDT)
Received: by 10.66.85.37 with SMTP id e5mr204985paz.31.1343314048321;
        Thu, 26 Jul 2012 07:47:28 -0700 (PDT)
MIME-Version: 1.0
Path: q11ni71877290wiw.1!nntp.google.com!16no11070350wil.1!news-out.google.com!
a15ni113198934qag.0!nntp.google.com!q21no2539495qas.0!news-out.google.com!
b9ni60415685pbl.0!nntp.google.com!npeer01.iad.highwinds-media.com!news.highwinds-
media.com!feed-me.highwinds-media.com!nx01.iad01.newshosting.com!newshosting.com!
82.197.223.106.MISMATCH!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
94.232.116.11.MISMATCH!feed.xsnews.nl!border-1.ams.xsnews.nl!newsfeed.straub-
nv.de!eternal-september.org!feeder.eternal-september.org!news.glorb.com!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
```

NNTP-Posting-Date: Tue, 24 Jul 2012 00:03:35 -0500
From: vu2nan <vu2nan.a53e458@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: piezo buzzer
Date: Tue, 24 Jul 2012 03:06:04 +0000
Message-ID: <vu2nan.a53e458@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
References: <3afeb411-ec2c-42b4-ae05-bdd3ebaa6706@googlegroups.com>
<vu2nan.a5292d8@radiobanter.com>
<a5b84a2c-9dc0-49ef-99e0-04541859823d@googlegroups.com>
Lines: 28
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-aLbWaue97fd/
tcIxhkSkX3hT9zr+KWr3USeiFzzmY+uOLkXqTruqlaAohj3Tq03SAKt2sWXv+xquaS6!
9eyLXUI5iXgWFggXOBYycpXa9kv3IIWTMgaR13H0rtfzPKUC5Sr6dN5VcAbx+AwuOaYsmTnN177c!TmvV
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Lines: 18
X-Original-Bytes: 1768
X-Received-Bytes: 2189

datakoll@yahoo.com;793878 Wrote:
> On Sunday, July 22, 2012 9:13:21 PM UTC-7, vu2nan wrote:-
> datakoll@yahoo.com;793804 Wrote:
> > what is postive and negative on a round buzzer where contacs are
> an
> > inside center circle and an outside ring ?
> >
> > or does positive and negative matter with a piezo buzzer ?
>
> I suppose you are referring to the piezo element alone. In that case
> the
> answer is 'no polarity' as the element responds to an ac signal only.
>
> --
> vu2nan-
>
> there's an inverter inside my multimeter ? why are peizo buzzers listed
> in Radio Shack under DC voltages ?

Reference for Piezo Buzzer basics:

http://tinyurl.com/d8lzltj

--
vu2nan

```
From 147572090689993140
X-Google-Thread: fc2a5,91f0071836445b62,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.180.95.2 with SMTP id dg2mr876326wib.2.1343257443269;
        Wed, 25 Jul 2012 16:04:03 -0700 (PDT)
MIME-Version: 1.0
Path: q11ni64862219wiw.1!nntp.google.com!volia.net!news2.volia.net!feed-
A.news.volia.net!news.glorb.com!border3.nntp.dca.giganews.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 25 Jul 2012 18:04:02 -0500
From: vu2nan <vu2nan.a5632f8@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Audio Signal Injector
Date: Wed, 25 Jul 2012 19:24:57 +0000
Message-ID: <vu2nan.a5632f8@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
Lines: 13
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-iybYhphECG2IJ6ZeYQV+RDRTAxtVztDokG5c7FtwDqJP2uBhGa/
Cqht8DQFK4rPVUcmIXNohw+NrV53!IOJGwXr55NCaRCGV0FxlSxwHAG/
zwx+AsAr7B8uVZmdZyhzwUWCSD+SQ5vfoOvBWvOOsznVF8dCv!peQz
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 7
X-Original-Bytes: 1019
```

May be accessed at:

http://nandustips.blogspot.in/2012/07/audio-signal-injector.html

73

Nandu.

--
vu2nan

```
From 2183948901045504449
X-Google-Thread: 241b302a50,c4c6aefaf27ca4d5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.180.205 with SMTP id bv13mr11585486qab.8.1343789678654;
        Tue, 31 Jul 2012 19:54:38 -0700 (PDT)
Received: by 10.66.73.228 with SMTP id o4mr3197852pav.32.1343789652453;
        Tue, 31 Jul 2012 19:54:12 -0700 (PDT)
Path: a15ni14729222qag.0!nntp.google.com!h9no1942927pbv.0!news-out.google.com!
p10ni7683779pbh.1!nntp.google.com!npeer03.iad.highwinds-media.com!news.highwinds-
media.com!feed-me.highwinds-media.com!news-in-01.newsfeed.easynews.com!
easynews.com!easynews!novia!border4.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nrc-news.nrc.ca!border3.nntp.dca.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Alinco dx70th - and transverter.Please help
Date: Thu, 26 Jul 2012 15:15:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 11
Message-ID: <3c5372a7-6636-4d14-96f4-f0f4184eb735@googlegroups.com>
References: <JrFwr.7387$v14.1053@viwinnwfe02.internal.bigpond.com>
NNTP-Posting-Host: 155.178.6.18
Mime-Version: 1.0
X-Trace: posting.google.com 1343341267 30084 127.0.0.1 (26 Jul 2012 22:21:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Jul 2012 22:21:07 +0000 (UTC)
In-Reply-To: <JrFwr.7387$v14.1053@viwinnwfe02.internal.bigpond.com>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=155.178.6.18;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
Bytes: 1762
X-Received-Bytes: 1839
Content-Type: text/plain; charset=ISO-8859-1
```

On Sunday, May 27, 2012 7:58:19 AM UTC, Steve Kelly wrote:

> Hi there,
> I am having troubles with the Alinco trying to find a voltage that goes high
> or low on transmit.This is to switch the transverter into transmit mode.I
> have looked at the circuit diagram but have had no success.Has anyone been
> down this path and if they did how was it done?Any replies appreciated.
> Steve VK4ADA

I have found that a relay controlled by the microphone PTT can be useful for solving the problem. Let a set of contacts from the relay key the radio and another control the transverter.

Jimmie

```
From -3311177986529999887
X-Google-Thread: 241b302a50,7ae95bf05befb859,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.78.205 with SMTP id m13mr3044991qak.7.1344100733786;
        Sat, 04 Aug 2012 10:18:53 -0700 (PDT)
Received: by 10.66.84.38 with SMTP id v6mr482070pay.7.1344092615980;
        Sat, 04 Aug 2012 08:03:35 -0700 (PDT)
Sat, 04 Aug 2012 08: 03:35 -0700 (PDT)
MIME-Version: 1.0
Path: c6ni18905555qas.0!nntp.google.com!r1no13762519qas.0!news-out.google.com!
g9ni4206226pbo.0!nntp.google.com!npeer02.iad.highwinds-media.com!news.highwinds-
media.com!feed-me.highwinds-media.com!postnews.google.com!r1no12646049qas.0!news-
out.google.com!q11ni39624365wiw.1!nntp.google.com!goblin3!goblin.stu.neva.ru!
news.netfront.net!newsgate.cuhk.edu.hk!news.neu.edu.cn!news.shec6.edu.cn!
texta.sil.at!geiz-ist-geil.priv.at!news.iks-jena.de!newsfeed1.eu.ignite.net!
news1.as3257.net!proxad.net!feeder1-2.proxad.net!news.glorb.com!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 30 Jul 2012 18:03:26 -0500
From: vu2nan <vu2nan.a5cca79@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Quartz Crystal Tester
Date: Mon, 30 Jul 2012 18:03:54 +0000
Message-ID: <vu2nan.a5cca79@radiobanter.com>
Organization: RadioBanter.com
Lines: 13
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
gVwsWnVhyH10+SZt2Sy0STlvczIF+LTsjOTXNu6czaEJGleoA4UqMAIB2mhrP+CJDt4j2fiYHbFVoUW!
Ri/9ShqVAF+yREzIkHFYfjhGC3Dm3gnDuTfQ1BMQ+5pMfyCYlDZaSuagMgJ/G8vThSncYIjgLx63!zNK6
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 7
X-Original-Bytes: 1015
X-Received-Bytes: 1652
```

Do check out at

http://nandustips.blogspot.in/2012/07/quartz-crystal-tester.html

73

Nandu.

--
vu2nan

```
From 3184398083720770326
X-Google-Thread: 241b302a50,b3a8866dbe1f4820,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.74.40 with SMTP id q8mr1551886pav.19.1344318881821;
        Mon, 06 Aug 2012 22:54:41 -0700 (PDT)
Path: g9ni142284pbo.0!nntp.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!Gin.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!ctu-peer!news.nctu.edu.tw!goblin1!goblin.stu.neva.ru!
postnews.google.com!c7g2000pbi.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT VIDEOS SEXY PHOTOS WATCH AND FREE DOWNLOAD 21,
Date: Tue, 31 Jul 2012 17:56:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 35
Message-ID: <0668b215-8ceb-4803-b65c-fca176df6121@c7g2000pbi.googlegroups.com>
NNTP-Posting-Host: 117.199.247.108
Mime-Version: 1.0
X-Trace: posting.google.com 1343783028 13959 127.0.0.1 (1 Aug 2012 01:03:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 1 Aug 2012 01:03:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c7g2000pbi.googlegroups.com; posting-host=117.199.247.108;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Bytes: 2362
X-Received-Bytes: 2432
Content-Type: text/plain; charset=ISO-8859-1
```

hot videos

real kiss videos
http://videos2youth.blogspot.in/2011/11/real-kiss-videos.html
first night hot videos
http://videos2youth.blogspot.in/2011/11/first-night-hot-videos.html
mallu hot videos
http://videos2youth.blogspot.in/2011/11/mallu-hot-videos.html
indian bedroom hot
http://videos2youth.blogspot.in/2011/11/indian-bedroom-hot.html

romantic videos
http://videos2youth.blogspot.in/2011/11/romantic-videos.html

HOT PHOTOS

lip kiss photos
http://photostwo2u.blogspot.in/2010/09/photos.html
bikini photos
http://photostwo2u.blogspot.in/2010/09/photos-2.html
SEXY PHOTOS
http://photostwo2u.blogspot.in/2010/09/photos-3.html
indian hot photos
http://photostwo2u.blogspot.in

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.in/2009/02/java-interview-ques...
oracle interview questions
http://allinterviewsquestions.blogspot.in/2009/02/oracle-interview-qu...
hardware interview questions 4
http://allinterviewsquestions.blogspot.in/2009/02/hardware-interview-...
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.in/2009/02/sql-server-intervie...
dotnet questions 3
http://allinterviewsquestions.blogspot.in/2009/02/dotnet-questions-3....

From 7076291981110171375
X-Google-Thread: 241b302a50,ddc6679b90ec2cb3,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.42.205.199 with SMTP id fr7mr5606420icb.6.1344322841629;
        Tue, 07 Aug 2012 00:00:41 -0700 (PDT)
MIME-Version: 1.0
Path: p10ni724pbh.1!nntp.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!border3.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!ctu-peer!ctu-gate!news.nctu.edu.tw!usenet.stanford.edu!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1341122402@panix.com>
Followup-To: poster
Date: 1 Aug 2012 02:00:03 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world

Expires: 03 Sep 2012 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1343800801@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1343800804 7489 166.84.1.2 (1 Aug 2012 06:00:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 1 Aug 2012 06:00:04 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
Bytes: 3840
X-Received-Bytes: 3888

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. After a successful trial |
period (90 days, through early July 2009), we decided to adopt this |
change permanently. |

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From 6376627421013687522
X-Google-Thread: a4a23d5f63,9e11d2cc3776fd18,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.180.24.135 with SMTP id u7mr1194400wif.3.1344850546715;
        Mon, 13 Aug 2012 02:35:46 -0700 (PDT)
MIME-Version: 1.0
Path: n2ni107334594win.0!nntp.google.com!volia.net!news2.volia.net!feed-
A.news.volia.net!npeer.de.kpn-eurorings.net!npeer-ng0.de.kpn-eurorings.net!news-
feed.eu.lambdanet.net!texta.sil.at!news.glorb.com!news-out.readnews.com!
transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1341641100@panix.com>
Followup-To: poster
Date: 7 Aug 2012 02:05:00 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Sep 2012 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1344319500@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1344319501 10178 166.84.1.2 (7 Aug 2012 06:05:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 7 Aug 2012 06:05:01 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/
```

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |
rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

```
From -5500461293749898658
X-Google-Thread: 241b302a50,3a97b8bc3fc5b7cc,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.138.146 with SMTP id a18mr8141069qau.6.1344858753465;
        Mon, 13 Aug 2012 04:52:33 -0700 (PDT)
Path: c6ni92093498qas.0!nntp.google.com!Gin.tags.giganews.com!
```

```
border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed.news.ucla.edu!
usenet.stanford.edu!postnews.google.com!glegroupsg2000goo.googlegroups.com!not-
for-mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: NEW  EXCLUSIVE HOT PHOTOS & VIDEOS
Date: Tue, 7 Aug 2012 23:48:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 49
Message-ID: <cc0d3684-7856-4131-851b-8b4040e36cdc@googlegroups.com>
NNTP-Posting-Host: 117.199.250.83
Mime-Version: 1.0
X-Trace: posting.google.com 1344408626 26063 127.0.0.1 (8 Aug 2012 06:50:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 8 Aug 2012 06:50:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=117.199.250.83;
 posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
Bytes: 4361
Content-Type: text/plain; charset=ISO-8859-1

                  TOP STUDY MATRERIAL NOTES AVAILABLE HERE
                          http://studymaterialforu.blogspot.in/

                                               FOR HOT ACTRESS PHOTOS
                            SINDHU TULANI LATEST HOT STILLS
http://southindianactressphotos9.blogspot.in/2012/08/sindhu-tulani.html
                            TELUGABBAYI MOVIE GALLERY
http://southindianactressphotos9.blogspot.in/2012/07/telugabbayi-movie-
gallery.html
       DEVUDU CHESINA MANUSHULU LATEST GALLERY
http://southindianactressphotos9.blogspot.in/2012/07/devudu-chesina-manushulu-
gallery.html
                     YAMAHO YAMA MOVIE UPDATED LATEST GALLERY
http://southindianactressphotos9.blogspot.in/2012/07/yamaho-yama-movie-stills.html
                                       JULAAYI MOVIE LATEST STILLS
http://southindianactressphotos9.blogspot.in/2012/07/julaayi-movie-latest-
stills.html
                                     SORRY TEACHER MOVIE GALLERY
http://southindianactressphotos9.blogspot.in/2012/07/sorry-teacher-movie-
stills.html
            SNEHA ULLA SADA HOT ROMANTICAAAH  ROJU MOVIE STILLS
           http://southindianactressphotos9.blogspot.in/2012/07/aah-roju-movie-
stills.html
                                      DEEPIKA PADUKONE HOT SIZZILING STILLS
http://southindianactressphotos9.blogspot.in/2012/07/deepika-padukone.html
                                        SAMANTHA RUTHUPRABHU NEW STILLS
http://southindianactressphotos9.blogspot.in/2012/07/samantha-ruth-prabhu.html
                                       AISHWARYA RAI LATEST PICS
http://southindianactressphotos9.blogspot.com/2012/07/aishwarya-rai.html
                                  PRIYANKA CHOPRA HOT SPICY STILLS
http://southindianactressphotos9.blogspot.in/2012/07/priyanka-chopra.html
```

KAJAL AGARWAL LATEST PHOTO GALLERY

http://southindianactressphotos9.blogspot.in/2012/07/kajal-agarwal-actress.html

http://southindianactressphotos9.blogspot.in/

THEATRE LO MOVIE SPICY STILLS

http://southindianactressphotos9.blogspot.in/2012/07/theatre-lo-movie-stills.html

THANDAVAM MOVIE STILLS

http://southindianactressphotos9.blogspot.in/2012/07/siva-thandavam-movie-stills.html

DESIGN PATTERN INTERVIEW QUESTIONS

http://newdotnetinterviewquestions.blogspot.in/2012/05/design-patterns-interview-questions.html

JQUERY INTERVIEW QUESTIONS

http://newdotnetinterviewquestions.blogspot.in/2012/05/jquery-interview-questions.html

WCF LATEST INTERVIEW QUESTIONS

http://newdotnetinterviewquestions.blogspot.in/2012/04/wcf-latest-interview-questions.html

SQL INTERVIEW QUESTIONS

http://newdotnetinterviewquestions.blogspot.in/2012/05/sql-interview-questions-answers.html

JAVA LATEST INTERVIEW QUESTIONS

http://newdotnetinterviewquestions.blogspot.in/2012/06/java-interview-questions.html

EEE 2012 LATEST INTERVIEW QUESTIONS

http://newdotnetinterviewquestions.blogspot.in/2012/06/electrical-electronics-engineeringeee.html

ELECTRONICS CIRCUITS SIMULATION

http://newdotnetinterviewquestions.blogspot.in/2012/04/electronic-circuits-simulation-lab.html

```
From 1678772995425998832
X-Google-Thread: fc2a5,c99becceb3a62ee9,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.72.73 with SMTP id b9mr980122pav.9.1344822429769;
        Sun, 12 Aug 2012 18:47:09 -0700 (PDT)
Path: c10ni109564pbw.0!nntp.google.com!news2.google.com!postnews.google.com!
vg10g2000pbc.googlegroups.com!not-for-mail
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT SEX BED ROOM VIDEOS AND 200 BEST ACTRESSES PHOTOS s
Date: Sun, 12 Aug 2012 18:40:40 -0700 (PDT)
Organization: http://groups.google.com
Lines: 36
Message-ID: <0907c3be-e8d4-4bd7-98c0-569600f2a81d@vg10g2000pbc.googlegroups.com>
NNTP-Posting-Host: 117.199.246.64
Mime-Version: 1.0
X-Trace: posting.google.com 1344822429 7516 127.0.0.1 (13 Aug 2012 01:47:09 GMT)
X-Complaints-To: groups-abuse@google.com
```

```
NNTP-Posting-Date: Mon, 13 Aug 2012 01:47:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: vg10g2000pbc.googlegroups.com; posting-host=117.199.246.64;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

     hot videos

 real kiss videos
http://videos2youth.blogspot.in/2011/11/real-kiss-videos.html
first night hot videos
http://videos2youth.blogspot.in/2011/11/first-night-hot-videos.html
mallu hot videos
http://videos2youth.blogspot.in/2011/11/mallu-hot-videos.html
indian bedroom hot
http://videos2youth.blogspot.in/2011/11/indian-bedroom-hot.html
romantic videos
http://videos2youth.blogspot.in/2011/11/romantic-videos.html

                  HOT PHOTOS
lip kiss photos
http://photostwo2u.blogspot.in/2010/09/photos.html
bikini photos
http://photostwo2u.blogspot.in/2010/09/photos-2.html
SEXY PHOTOS
http://photostwo2u.blogspot.in/2010/09/photos-3.html
indian hot photos
http://photostwo2u.blogspot.in

      ALL INTERVIEW QUESTIONS


java interview questions
http://allinterviewsquestions.blogspot.in/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.in/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.in/2009/02/hardware-interview-
questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.in2009/02/sql-server-interview-
questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.in/2009/02/dotnet-questions-3.html


From -1810083248240029636
X-Google-Thread: fc2a5,22b42e7ca15929b8
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.74.225 with SMTP id x1mr1295473pav.45.1344831288504;
        Sun, 12 Aug 2012 21:14:48 -0700 (PDT)
MIME-Version: 1.0
Path: g9ni51107834pbo.0!nntp.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe23.iad.POSTED!4b906575!not-for-mail
From: "Eugene" <eugene_77@live.com>
Newsgroups: rec.radio.amateur.homebrew
References: <5Hkup.3524$I17.2405@newsfe03.iad>
Subject: Re: Media Accelerator
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Response
Message-ID: <Xa%Vr.50515$7y4.11106@newsfe23.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Mon, 13 Aug 2012 04:14:47 UTC
Organization: TeraNews.com
Date: Sun, 12 Aug 2012 21:14:36 -0700
X-Received-Bytes: 1031

A uniquely elegant and enginuitive way electrons from the ground pass to a
chassis thereby enhancing suppression in mode eliminating distortion thru
dolby. MUX 2,4-CH Audio... Hi-fi !

"Eugene" <eugene_77@live.com> wrote in message
news:5Hkup.3524$I17.2405@newsfe03.iad...
> HOT HOT HOT
>
> Homebrew Radio Blog
>
>
>
>




From 5542504007708665O1
X-Google-Thread: a4a23d5f63,5dfd3e71bccf5885,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.180.24.135 with SMTP id u7mr625561wif.3.1345237654280;
        Fri, 17 Aug 2012 14:07:34 -0700 (PDT)
MIME-Version: 1.0
Path: n2ni181726861win.0!nntp.google.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!94.232.116.13.MISMATCH!border-3.ams.xsnews.nl!
border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!nntp.giganews.com!
feed.xsnews.nl!border-1.ams.xsnews.nl!plix.pl!newsfeed2.plix.pl!wsisiz.edu.pl!
```

newsfeed2.atman.pl!newsfeed.atman.pl!goblin2!goblin.stu.neva.ru!ecngs!feeder2.ecngs.de!news.linkpendium.com!news.linkpendium.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1343800801@panix.com>
Followup-To: poster
Date: 15 Aug 2012 02:00:03 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 17 Sep 2012 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1345010401@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com (rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1345010403 12083 166.84.1.2 (15 Aug 2012 06:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 15 Aug 2012 06:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
Bytes: 3773

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted twice monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

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rec.radio.amateur.moderated and one other unmoderated
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We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From 7477340899520791405
X-Google-Thread: 241b302a50,807ea56648325eee
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.80.168 with SMTP id s8mr786677pax.28.1345237996941;
        Fri, 17 Aug 2012 14:13:16 -0700 (PDT)
Path: p10ni90884728pbh.1!nntp.google.com!border1.nntp.dca.giganews.com!
backlog1.nntp.ams.giganews.com!border3.nntp.ams.giganews.com!
border1.nntp.ams.giganews.com!border4.nntp.ams.giganews.com!
border2.nntp.ams.giganews.com!nntp.giganews.com!feed.xsnews.nl!
border-1.ams.xsnews.nl!plix.pl!newsfeed2.plix.pl!wsisiz.edu.pl!news.icm.edu.pl!
newsfeed.pionier.net.pl!feeder.erje.net!news2.arglkargh.de!news.mixmin.net!
newsreader4.netcologne.de!news.netcologne.de!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!postnews.google.com!glegroupsg2000goo.googlegroups.com!not-for-
mail
From: dickbolt@comcast.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Info on James Knights Xtal/oven
Date: Wed, 15 Aug 2012 13:54:25 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
Message-ID: <933dc065-8a1b-40e4-bb96-7293efe311e0@googlegroups.com>
References: <2m0qch$juu@geraldo.cc.utexas.edu>
NNTP-Posting-Host: 71.61.226.25
Mime-Version: 1.0
X-Trace: posting.google.com 1345064067 26687 127.0.0.1 (15 Aug 2012 20:54:27 GMT)
```

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 15 Aug 2012 20:54:27 +0000 (UTC)
In-Reply-To: <2m0qch$juu@geraldo.cc.utexas.edu>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=71.61.226.25;
posting-account=Lop2NgoAAAAYhxOjsSRh5oMVcpNzRYvk
User-Agent: G2/1.0
Bytes: 2146
X-Original-Bytes: 1982
Content-Type: text/plain; charset=ISO-8859-1

I have an old JK cylindar oven. Says freq is 100? 100 What? Kcs? Dick W1DGA


On Monday, March 14, 1994 12:49:21 AM UTC-4, (unknown) wrote:
> I am looking for information on a crystal/oven manufactured by James
> Knights Company. It is a 1 MHz rock mounted in an oven which operates
> at 55 C. The model number is JK5T.The heater runs on 6.3 volts and the
> volts and the unit plugs into a 5 pin socket. In the best of all
> worlds, I'd like to know the pin-out, the xtal cut and whether the
> xtal was designed for series or parallel operation.
>
> In any case, does anyone know if the James Knights Co. is still in
> business? They were located in Sandwich IL when the crystal I have was
> manufactured.
>
> Tne es 73,
> Barry W5KH




From -5991898493661225758
X-Google-Thread: 241b302a50,807ea56648325eee
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.180.24.165 with SMTP id v5mr629212wif.1.1345237891928;
        Fri, 17 Aug 2012 14:11:31 -0700 (PDT)
Path: q11ni181684007wiw.1!nntp.google.com!feeder1.cambriumusenet.nl!
feeder3.cambriumusenet.nl!feed.tweaknews.nl!85.12.40.138.MISMATCH!xlned.com!
feeder5.xlned.com!feed.xsnews.nl!border-1.ams.xsnews.nl!plix.pl!newsfeed2.plix.pl!
wsisiz.edu.pl!newsfeed2.atman.pl!newsfeed.atman.pl!goblin3!goblin.stu.neva.ru!de-
l.enfer-du-nord.net!feeder1.enfer-du-nord.net!cs.uu.nl!news0.firedrake.org!
news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Info on James Knights Xtal/oven
Date: Wed, 15 Aug 2012 20:15:04 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 30
Sender: et472@72.0.192.108
Message-ID: <Pine.LNX.4.64.1208152013480.7119@darkstar.example.net>
References: <2m0qch$juu@geraldo.cc.utexas.edu> <933dc065-8a1b-40e4-
```

```
bb96-7293efe311e0@googlegroups.com>
NNTP-Posting-Host: 72.0.192.108
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1345076136 26245 72.0.192.108 (16 Aug 2012 00:15:36 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 16 Aug 2012 00:15:36 GMT
In-Reply-To: <933dc065-8a1b-40e4-bb96-7293efe311e0@googlegroups.com>
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

On Wed, 15 Aug 2012, dickbolt@comcast.net wrote:

> I have an old JK cylindar oven. Says freq is 100? 100 What? Kcs? Dick W1DGA
>
>
Come on, you've just replied to a message that is 18 years old.  Nobody
reading the newsgroup back then is reading it now.

if you have a question, ask it.  Don't reply to an old message, google
should be fixing that bug, and don't ask some nonsensical question that
doesn't seem to have any relationship to the original post.

   Michael  VE2BVW

> On Monday, March 14, 1994 12:49:21 AM UTC-4, (unknown) wrote:
>> I am looking for information on a crystal/oven manufactured by James
>> Knights Company. It is a 1 MHz rock mounted in an oven which operates
>> at 55 C. The model number is JK5T.The heater runs on 6.3 volts and the
>> volts and the unit plugs into a 5 pin socket. In the best of all
>> worlds, I'd like to know the pin-out, the xtal cut and whether the
>> xtal was designed for series or parallel operation.
>>
>> In any case, does anyone know if the James Knights Co. is still in
>> business? They were located in Sandwich IL when the crystal I have was
>> manufactured.
>>
>> Tne es 73,
>> Barry W5KH
>
>



From -5069723848807561906
X-Google-Thread: 241b302a50,807ea56648325eee
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.180.103.197 with SMTP id fy5mr629029wib.1.1345237902037;
        Fri, 17 Aug 2012 14:11:42 -0700 (PDT)
Path: q11ni181690832wiw.1!nntp.google.com!feeder3.cambriumusenet.nl!
feed.tweaknews.nl!81.171.88.16.MISMATCH!eweka.nl!hq-usenetpeers.eweka.nl!
feed.xsnews.nl!border-1.ams.xsnews.nl!plix.pl!newsfeed2.plix.pl!
217.153.128.51.MISMATCH!nf1.ipartners.pl!ipartners.pl!news.nask.pl!
news.nask.org.pl!news.unit0.net!fu-berlin.de!uni-berlin.de!individual.net!not-for-
```

```
mail
From: Allodoxaphobia <knock_yourself_out@example.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Info on James Knights Xtal/oven
Date: 16 Aug 2012 01:14:12 GMT
Lines: 14
Message-ID: <slrnk2oib4.1n8e.knock_yourself_out@vps.jonz.net>
References: <2m0qch$juu@geraldo.cc.utexas.edu>
 <933dc065-8a1b-40e4-bb96-7293efe311e0@googlegroups.com>
 <Pine.LNX.4.64.1208152013480.7119@darkstar.example.net>
Mime-Version: 1.0
X-Trace: individual.net xBCxSTvgSRWKWTX8h5nCVQd6ASOOWFy0tczl9ZEl71ARPYmXeJkqvTC/
2AyJGOvB9w
Cancel-Lock: sha1:HjaIRcIr6/KwHGgLJD/T1z2DUGY=
User-Agent: slrn/0.9.9p1 (FreeBSD)
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Wed, 15 Aug 2012 20:15:04 -0400, Michael Black wrote:
> On Wed, 15 Aug 2012, dickbolt@comcast.net wrote:
>
>> I have an old JK cylindar oven. Says freq is 100? 100 What? Kcs? Dick W1DGA
>>
> Come on, you've just replied to a message that is 18 years old.
> Nobody reading the newsgroup back then is reading it now.

heh...  Not unexpected:
Injection-Info: glegroupsg2000goo.googlegroups.com



Actually, I think I might've been reading this ng back then....  :-)


From -2769341013823317134
X-Google-Thread: a4a23d5f63,8aca835be7f97c6e,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.180.106.199 with SMTP id gw7mr1241608wib.0.1345988000526;
        Sun, 26 Aug 2012 06:33:20 -0700 (PDT)
MIME-Version: 1.0
Path: q11ni325714965wiw.1!nntp.google.com!feeder3.cambriumusenet.nl!
feed.tweaknews.nl!193.141.40.65.MISMATCH!npeer.de.kpn-eurorings.net!npeer-
ng0.de.kpn-eurorings.net!news.snarked.org!newsfeed.news.ucla.edu!ihnp4.UCSD.Edu!
nntp.ucr.edu!usenet.stanford.edu!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1344319500@panix.com>
Followup-To: poster
```

Date: 22 Aug 2012 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Sep 2012 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1345615500@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1345615503 26054 166.84.1.2 (22 Aug 2012 06:05:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 22 Aug 2012 06:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted twice monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |
rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval.

This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

```
From -3231914809169371436
X-Google-Thread: 241b302a50,3ad3cd6bfbf6eaf1,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.180.205 with SMTP id bv13mr8058259qab.8.1346117472090;
        Mon, 27 Aug 2012 18:31:12 -0700 (PDT)
MIME-Version: 1.0
Received: by 10.236.184.70 with SMTP id r46mr1035246yhm.12.1346117472072; Mon,
 27 Aug 2012 18:31:12 -0700 (PDT)
Path: da15ni36163658qab.0!nntp.google.com!r1no2078850qas.0!postnews.google.com!
o8g2000yqm.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Mon, 27 Aug 2012 18:31:12 -0700 (PDT)
Complaints-To: groups-abuse@google.com
Injection-Info: o8g2000yqm.googlegroups.com; posting-host=117.199.247.206;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
NNTP-Posting-Host: 117.199.247.206
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Message-ID: <2ef7dbe4-1d51-4b22-a3c8-573c98f0fa75@o8g2000yqm.googlegroups.com>
Subject: HOT VIDEOS FOR YOUTH AND WORLD SEXIEST GIRLS HOT PHOTOS
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Injection-Date: Tue, 28 Aug 2012 01:31:12 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.in/2011/06/real-kiss-hot-videos.html

HOT HOT LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/hot-for-youth.html
SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-101.html
YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.in/2010/06/supr-hot-never-seen.html

SUPER HOT NEVER SEEN
http://hotvideosfreesee.blogspot.in/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/kajal-best-lip-kiss.html

for mopre hot videos
http://allvideosforyouth.blogspot.in/2010/08/super-hot-lip-kiss.html

jobs
http://alljobsaywhere.blogspot.in/

mobile

mobile games free download
http://mobileallinforation.blogspot.in

```
From 5781991347508183557
X-Google-Thread: fc2a5,f3fa93b2d4fe184b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.85.199 with SMTP id j7mr2709210paz.36.1346139221247;
        Tue, 28 Aug 2012 00:33:41 -0700 (PDT)
Received: by 10.50.207.101 with SMTP id lv5mr1091328igc.5.1346139220014; Tue,
 28 Aug 2012 00:33:40 -0700 (PDT)
Path: t10ni19709575pbh.0!nntp.google.com!4no21944136pbn.1!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Tue, 28 Aug 2012 00:33:39 -0700 (PDT)
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=113.178.37.152;
 posting-account=7x6AcwoAAAANV7u8W0BE7ye1MHET79y6
NNTP-Posting-Host: 113.178.37.152
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <f1cacd62-8d95-42b2-82ce-b81d4932fa8d@googlegroups.com>
Subject: Regenerative Radio Receiver Circuit
From: Sean_VN <bitterlemon40@yahoo.ie>
Injection-Date: Tue, 28 Aug 2012 07:33:41 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

A circuit diagram for a very useful regenerative receiver circuit is here:
http://evospice.site88.net/regen/regen.html
It uses some well thought out design ideas to create a powerful radio from 3 transistors.

```
From -3403551001910397809
X-Google-Thread: 241b302a50,8b1ab8a3da8fbc84,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Received: by 10.180.82.226 with SMTP id l2mr5174921wiy.1.1346985550970;
        Thu, 06 Sep 2012 19:39:10 -0700 (PDT)
MIME-Version: 1.0
Path: q11ni6370638wiw.1!nntp.google.com!volia.net!news2.volia.net!feed-
A.news.volia.net!border1.nntp.ams2.giganews.com!border2.nntp.ams2.giganews.com!
border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!nntp.giganews.com!
news.teledata-fn.de!goblin3!goblin.stu.neva.ru!odin.sdf-eu.org!.POSTED!mcalhoun
From: mcalhoun@sdf.lNoOnSePsAtMar.org (Myron A. Calhoun)
Newsgroups: rec.radio.amateur.homebrew
Subject: Recent QST article for a geezer hearing aid?
Date: Fri, 31 Aug 2012 01:13:52 +0000 (UTC)
Organization: SDF Public Access UNIX System, est. 1987 - sdf.org
Lines: 22
Distribution: us
Message-ID: <k1p34f$lg3$1@odin.sdf-eu.org>
NNTP-Posting-Host: sverige.sdf.org
X-Trace: odin.sdf-eu.org 1346375632 22019 192.94.73.4 (31 Aug 2012 01:13:52 GMT)
X-Complaints-To: usenet@odin.sdf-eu.org
NNTP-Posting-Date: Fri, 31 Aug 2012 01:13:52 +0000 (UTC)
Summary: Looking for recent QST article
X-Newsreader: trn 4.0-test76 (Apr 2, 2001)
Bytes: 1881

I had my hearing checked recently, and the (not-unexpected) results
were "age-onset hearing loss" of about 10dB per octave.
(It actually onset'ted 10-20 years ago!-)

I'm pretty sure that, within the last year, there was a QST article
about a do-it-yourself hearing aid (I don't think it was called a
"hearing aid", but that's what it was, with selectable 6dB/octave
and 12dB/octave gain) for geezers like me, and I thought I had
saved/clipped that article, but I can't find it.

I tried looking at the table of contents of the digital QST, but
the download speed is so slooooooow that it's not worth the wait.

If you are a current QST subscriber and remember the article and could
tell me where to find it, or if you could even scan it, I'd sure
appreciate it.

--
-- Myron A. Calhoun.
Five boxes preserve our freedoms:  soap, ballot, witness, jury, and cartridge
NRA Life Member & Certified Instructor for Rifle, Pistol, & Home Firearm Safety
Also Certified Instructor for the Kansas Concealed-Carry Handgun (CCH) license


From -7355188012620636503
X-Google-Thread: 241b302a50,8b1ab8a3da8fbc84
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.180.105.38 with SMTP id gj6mr5172933wib.0.1346985846750;
```

```
        Thu, 06 Sep 2012 19:44:06 -0700 (PDT)
Path: q11ni6424935wiw.1!nntp.google.com!volia.net!news2.volia.net!feed-
A.news.volia.net!npeer.de.kpn-eurorings.net!npeer-ng0.de.kpn-eurorings.net!
xlned.com!feeder3.xlned.com!news.astraweb.com!border2.a.newsrouter.astraweb.com!
newsfeed10.multikabel.net!multikabel.net!newsfeed20.multikabel.net!
border3.nntp.ams.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!
news.teledata-fn.de!weretis.net!feeder4.news.weretis.net!nuzba.szn.dk!pnx.dk!fu-
berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <knock_yourself_out@example.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Recent QST article for a geezer hearing aid?
Date: 31 Aug 2012 20:24:56 GMT
Lines: 32
Message-ID: <slrnk427co.1l2s.knock_yourself_out@vps.jonz.net>
References: <k1p34f$lg3$1@odin.sdf-eu.org>
Mime-Version: 1.0
X-Trace: individual.net
tA9KJv8I2vXJs2NO1uFQqQ+m7W+aRPdYWcCBZP8aWqgbk9qCGSfcw0BWmqbDNu8uxh
Cancel-Lock: sha1:M6fLngYRBdk/ibLxGjiMos1K53U=
User-Agent: slrn/0.9.9p1 (FreeBSD)
Bytes: 2092
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Fri, 31 Aug 2012 01:13:52 +0000 (UTC), Myron A. Calhoun wrote:
> I had my hearing checked recently, and the (not-unexpected) results
> were "age-onset hearing loss" of about 10dB per octave.
> (It actually onset'ted 10-20 years ago!-)
>
> I'm pretty sure that, within the last year, there was a QST article
> about a do-it-yourself hearing aid (I don't think it was called a
> "hearing aid", but that's what it was, with selectable 6dB/octave
> and 12dB/octave gain) for geezers like me, and I thought I had
> saved/clipped that article, but I can't find it.
>
> I tried looking at the table of contents of the digital QST, but
> the download speed is so slooooooow that it's not worth the wait.
>
> If you are a current QST subscriber and remember the article and could
> tell me where to find it, or if you could even scan it, I'd sure
> appreciate it.

I have yet to see my earlier followup here.  But, in addition to

  http://www.arrl.org/contest-update-issues?issue=2011-05-11#Conversation

I have the following references:

  http://www.edn.com/electronics-blogs/serious-fun/4376762/Hearing-aids-hacked

  http://www.onsemi.com/site/pdf/ICSPAT1999_Programma.pdf

  http://www.onsemi.com/site/pdf/DSP_System.pdf
```

73
Jonesy W3DHJ

```
From -5881533797454166652
X-Google-Thread: 241b302a50,685d91c1b6c9268b,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.42.68 with SMTP id r4mr4723980qae.4.1347166086097;
        Sat, 08 Sep 2012 21:48:06 -0700 (PDT)
MIME-Version: 1.0
Path: da15ni24490381qab.0!nntp.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!ctu-peer!ctu-gate!news.nctu.edu.tw!usenet.stanford.edu!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1345010401@panix.com>
Followup-To: poster
Date: 1 Sep 2012 02:00:02 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 19 Sep 2012 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1346479201@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1346479203 23990 166.84.1.2 (1 Sep 2012 06:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 1 Sep 2012 06:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Bytes: 3851

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted twice monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html
```

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

```
http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/
d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider       |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup.  After a successful trial         |
period (90 days, through early July 2009), we decided to adopt this           |
change permanently.                                                           |

Approved rec.radio.amateur.* newsgroups are those that are currently
listed in the latest version of the "List of Big Eight Newsgroups" which
is crossposted monthly to news.announce.newgroups, news.groups, and
news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those
that have been created consistent with the suggestions in "So You Want
to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either
"radio.amateur" or "ham-radio" in their names, including
uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved
newsgroups up-to-date.  In case we have overlooked any, and a submission
is rejected in error as a result, the rejected submitter can E-mail us
at our administrative contact address (in the signature at the bottom of
this article, and the default Reply-To for the rejection message)
requesting that it be added, and that the article be approved.  We may
still choose to reject articles crossposted to any alt.* newsgroup with
an inappropriate name, including obscene language, embedded
name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.


From -1813197301220781864
X-Google-Thread: fc2a5,7f2d278e9e34b8e8,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.89.196 with SMTP id bq4mr2592224pab.26.1346548168505;
        Sat, 01 Sep 2012 18:09:28 -0700 (PDT)
MIME-Version: 1.0
Received: by 10.68.232.9 with SMTP id tk9mr2599122pbc.0.1346548168491; Sat, 01
 Sep 2012 18:09:28 -0700 (PDT)
Path: a8ni19134537pbd.1!nntp.google.com!r4no2653836pbs.0!postnews.google.com!
rq1g2000pbb.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Sat, 1 Sep 2012 18:09:28 -0700 (PDT)
```

Complaints-To: groups-abuse@google.com
Injection-Info: rq1g2000pbb.googlegroups.com; posting-host=117.199.246.151; posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
NNTP-Posting-Host: 117.199.246.151
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/8.0.1,gzip(gfe)
Message-ID: <d9efeb7b-9450-498e-a8d5-cb9b66e3d4f5@rq1g2000pbb.googlegroups.com>
Subject: HOT LATEST UPDATED VIDEOS AND SEXY ACTRESES PHOTOS
From: 9038 <1jghgcgcc@gmail.com>
Injection-Date: Sun, 02 Sep 2012 01:09:28 +0000
Content-Type: text/plain; charset=ISO-8859-1

VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.in/2011/06/real-kiss-hot-videos.html

HOT HOT LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/hot-for-youth.html
SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-101.html
YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.in/2010/06/supr-hot-never-seen.html
SUPER HOT NEVER SEEN
http://hotvideosfreesee.blogspot.in/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/kajal-best-lip-kiss.html

for mopre hot videos
http://allvideosforyouth.blogspot.in/2010/08/super-hot-lip-kiss.html

jobs
http://alljobsaywhere.blogspot.in/

mobile

mobile games free download
http://mobileallinforation.blogspot.in

interview question
java interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/java-interview-questions-and-answers.html
oracle interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/oracle-interview-questions-and-answers.html
hardware interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/hardware-interview-questions-and-answers.html
networking interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/networking-interview-

questions-and.html
dotnet interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/dotnet-interview-questions-and-answers.html
c interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/c-interview-questions-and-answers.html
datawarehousing interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/datawarehousing-interview-questions-and.html
sap interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/sap-interview-questions-and-answers.html

all jobs
java jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/java-jobs.html
oracle jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/oracle-jobs.html
sap jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/sap-jobs.html
hardware jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/hardware-jobs.html
networking jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/networking-jobs.html
datawarehousing jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/datawarehousing-jobs.html
GOOGLE ADSENSE
http://alljobsandinterviwquestions.blogspot.com/2012/08/google-adsense.html

---

```
From 4512512843442298023
X-Google-Thread: e721ae2bf6,96bd43163ab8e6fb,start
X-Google-Attributes: gide721ae2bf6,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.216.239.205 with SMTP id c55mr181489wer.12.1347644494201;
        Fri, 14 Sep 2012 10:41:34 -0700 (PDT)
MIME-Version: 1.0
Path: q11ni64828411wiw.1!nntp.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!85.12.40.138.MISMATCH!xlned.com!feeder5.xlned.com!feed.xsnews.nl!border-2.ams.xsnews.nl!border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!border3.nntp.ams.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!news.panservice.it!newsfeed.hal-mli.net!feeder3.hal-mli.net!newsfeed.hal-mli.net!feeder1.hal-mli.net!news.linkpendium.com!news.linkpendium.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
```

io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1345615500@panix.com>
Followup-To: poster
Date: 7 Sep 2012 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 25 Sep 2012 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1346997900@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1346997904 9393 166.84.1.2 (7 Sep 2012 06:05:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 7 Sep 2012 06:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Bytes: 3875

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted twice monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

 rec.radio.amateur.antenna |
 rec.radio.amateur.boatanchors |
 rec.radio.amateur.dx |
 rec.radio.amateur.equipment |
 rec.radio.amateur.homebrew |

```
 rec.radio.amateur.moderated                                                     |
 rec.radio.amateur.space                                                         |
```

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

```
From 9151064333395406888
X-Google-Thread: 241b302a50,7b671898f1e3630a,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.216.84.129 with SMTP id s1mr181865wee.2.1347644533808;
        Fri, 14 Sep 2012 10:42:13 -0700 (PDT)
Path: q11ni64839852wiw.1!nntp.google.com!feeder1.cambriumusenet.nl!
feeder3.cambriumusenet.nl!194.109.133.85.MISMATCH!newsfeed.xs4all.nl!
newsfeed6.news.xs4all.nl!xs4all!border4.nntp.ams.giganews.com!
border2.nntp.ams.giganews.com!nntp.giganews.com!news.panservice.it!news.unit0.net!
feeder3.cambriumusenet.nl!feed.tweaknews.nl!209.197.12.246.MISMATCH!
nx02.iad01.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!isp-post01.iad!
news.highwinds-media.com!news.cv.net!not-for-mail
Date: Fri, 07 Sep 2012 13:09:38 -0400
From: Jeff W2NBC <w2nbc@optonline.net>
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:15.0) Gecko/20120824
Thunderbird/15.0
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Vintage Radios and Parts
Lines: 11
Message-ID: <504a2a52$0$1216$607ed4bc@cv.net>
Organization: Optimum Online
X-Complaints-To: abuse@cv.net
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

The Boatanchor Classifieds

Dedicated to the promotion and preservation of Vintage Radio!

Please post some ads!!

Thanks for YOUR support..

The Boatanchor Classifieds

http://www.dealamerica.com/deal/cgi-bin/ads/bcads.cgi

```
From -1762860012479478565
X-Google-Thread: fc2a5,98ee067d260783e2,start
X-Google-NewGroupId: yes
X-Google-Thread: 10e8ad,98ee067d260783e2,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid8f86f75953,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.216.0.67 with SMTP id 45mr249209wea.4.1347688803523;
        Fri, 14 Sep 2012 23:00:03 -0700 (PDT)
MIME-Version: 1.0
Path: q11ni73339083wiw.1!nntp.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!198.186.190.251.MISMATCH!news-out.readnews.com!
transit4.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1346479201@panix.com>
Followup-To: poster
Date: 15 Sep 2012 02:00:02 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Oct 2012 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1347688801@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1347688803 19386 166.84.1.2 (15 Sep 2012 06:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 15 Sep 2012 06:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted twice monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html
```

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. After a successful trial |
period (90 days, through early July 2009), we decided to adopt this |
change permanently. |

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

From 7619137201193310391
X-Google-Thread: 241b302a50,807ea56648325eee
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.180.106.102 with SMTP id gt6mr65904wib.0.1348195913413;
        Thu, 20 Sep 2012 19:51:53 -0700 (PDT)
MIME-Version: 1.0
Path: q11ni4243408wiw.1!nntp.google.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!216.40.29.245.MISMATCH!novia!border4.nntp.dca.giganews.com!

```
border2.nntp.dca.giganews.com!nrc-news.nrc.ca!border3.nntp.dca.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 17 Sep 2012 12:03:11 -0500
From: Channel Jumper <Channel.Jumper.a9d0f98@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Info on James Knights Xtal/oven
Date: Mon, 17 Sep 2012 12:25:10 +0000
Message-ID: <Channel.Jumper.a9d0f98@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
References: <2m0qch$juu@geraldo.cc.utexas.edu><933dc065-8a1b-40e4-
bb96-7293efe311e0@googlegroups.com><Pine.LNX.4.64.1208152013480.7119@darkstar.exam
ple.net> <slrnk2oib4.1n8e.knock_yourself_out@vps.jonz.net>
Lines: 11
X-Usenet-Provider: http://www.giganews.com
X-Trace:
sv3-9SsxGxp9wrmS6FIOd8T7cX1Mn82LjusR0Y6CxhEWDTvt3dnS084TJK+jbYfwJ0VIMCLwSPwFeDqjTc
h!u9CYhdw5gCbAQXgXSPBVeOW2Pna037PFYw2ZVEm56lJqozBhZ1SK4XB/UWJfl9ptT/aw1ZWrUOSI!
7NSrQlle79gf30A=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 5
X-Original-Bytes: 1322
Bytes: 1576
```

Look on www.Repeater-builder.com

That will be as close as you will get.

No one uses crystals anymore - most everything is synthesized.

--
Channel Jumper

```
From 4989730342490967641
X-Google-Thread: fc2a5,215666265cec2290,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.76.130 with SMTP id k2mr2447756paw.16.1347928511356;
        Mon, 17 Sep 2012 17:35:11 -0700 (PDT)
MIME-Version: 1.0
```

Received: by 10.68.238.201 with SMTP id vm9mr2731155pbc.6.1347928511327; Mon,
 17 Sep 2012 17:35:11 -0700 (PDT)
Path: a8ni77828999pbd.1!nntp.google.com!4no17134004pbn.1!postnews.google.com!k3g2000pbr.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Mon, 17 Sep 2012 17:35:11 -0700 (PDT)
Complaints-To: groups-abuse@google.com
Injection-Info: k3g2000pbr.googlegroups.com; posting-host=117.199.244.49; posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
NNTP-Posting-Host: 117.199.244.49
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/8.0.1,gzip(gfe)
Message-ID: <7922b330-ea09-4524-91a9-376967b5fcb9@k3g2000pbr.googlegroups.com>
Subject: HOT SEXY VIDEOS AND ROMANTIC BEAUTIFUL PHOTOS'
From: 9038 <1jghgcgcc@gmail.com>
Injection-Date: Tue, 18 Sep 2012 00:35:11 +0000
Content-Type: text/plain; charset=ISO-8859-1

VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.in/2011/06/real-kiss-hot-videos.html

HOT HOT LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/hot-for-youth.html
SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-101.html
YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.in/2010/06/supr-hot-never-seen.html
SUPER HOT NEVER SEEN
http://hotvideosfreesee.blogspot.in/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/kajal-best-lip-kiss.html

for mopre hot videos
http://allvideosforyouth.blogspot.in/2010/08/super-hot-lip-kiss.html

jobs
http://alljobsaywhere.blogspot.in/

mobile

mobile games free download
http://mobileallinforation.blogspot.in

interview question
java interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/java-interview-questions-and-answers.html
oracle interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/oracle-interview-

questions-and-answers.html
hardware interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/hardware-interview-questions-and-answers.html
networking interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/networking-interview-questions-and.html
dotnet interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/dotnet-interview-questions-and-answers.html
c interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/c-interview-questions-and-answers.html
datawarehousing interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/datawarehousing-interview-questions-and.html
sap interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/sap-interview-questions-and-answers.html

all jobs
java jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/java-jobs.html
oracle jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/oracle-jobs.html
sap jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/sap-jobs.html
hardware jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/hardware-jobs.html
networking jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/networking-jobs.html
datawarehousing jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/datawarehousing-jobs.html
GOOGLE ADSENSE
http://alljobsandinterviwquestions.blogspot.com/2012/08/google-adsense.html

---

```
From 1543056946029938754
X-Google-Thread: 241b302a50,807ea56648325eee
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.180.81.136 with SMTP id a8mr78152wiy.3.1348191053724;
        Thu, 20 Sep 2012 18:30:53 -0700 (PDT)
Path: q11ni3625826wiw.1!nntp.google.com!feeder1.cambriumusenet.nl!
feeder3.cambriumusenet.nl!82.197.223.108.MISMATCH!feeder2.cambriumusenet.nl!
feed.tweaknews.nl!194.109.133.85.MISMATCH!newsfeed.xs4all.nl!
newsfeed6.news.xs4all.nl!border4.nntp.ams.giganews.com!
border2.nntp.ams.giganews.com!border3.nntp.ams.giganews.com!
```

border1.nntp.ams.giganews.com!nntp.giganews.com!newsreader4.netcologne.de!
news.netcologne.de!xlned.com!feeder1.xlned.com!newsfeed.xs4all.nl!
newsfeed6.news.xs4all.nl!xs4all!newsgate.cistron.nl!newsgate.news.xs4all.nl!
news.nosignal.org!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Info on James Knights Xtal/oven
Date: Mon, 17 Sep 2012 22:01:41 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 33
Sender: et472@belmoncnas62-1088748128.dial.bell.ca
Message-ID: <Pine.LNX.4.64.1209172156110.11360@darkstar.example.net>
References: <2m0qch$juu@geraldo.cc.utexas.edu><933dc065-8a1b-40e4-bb96-7293efe311e0@googlegroups.com><Pine.LNX.4.64.1208152013480.7119@darkstar.example.net>
 <slrnk2oib4.1n8e.knock_yourself_out@vps.jonz.net>
<Channel.Jumper.a9d0f98@radiobanter.com>
NNTP-Posting-Host: belmoncnas62-1088748128.dial.bell.ca
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1347933714 26809 64.228.250.96 (18 Sep 2012 02:01:54 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 18 Sep 2012 02:01:54 GMT
In-Reply-To: <Channel.Jumper.a9d0f98@radiobanter.com>
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

On Mon, 17 Sep 2012, Channel Jumper wrote:

> Look on www.Repeater-builder.com
>
> That will be as close as you will get.
>
> No one uses crystals anymore - most everything is synthesized.
>

That's not completely true. They aren't going to lock to an RC oscillator, the reference oscillator has to be crystal controlled.

QRP still uses crystals, it's simpler and takes up less space and dowsn't draw much current.

Anyone using an old analog receiver still has as much use for a crystal calibrator as in the old days. That TMC GPR-90 I got at a garage sale in August for 20.00 came with a crystal calibrator.

There can be various standalone items where simplicity or small size is more important than changing frequency. So some sort of signal generator, if you don't need variable frequency, a crystal oscillator makes it simple. A lot of digital circuitry is clocked at a high frequency, there again one uses a crystal, though sometimes in the form of a crystal oscillator module.

If one wants a spare receiver for the local repeater, one might as well resurrect an old crystal controlled receiver, be it a consumer "plublic service band" receiver or a commercial two-way receiver, and so long as you can live with one or a frew frequencies, crystals still make it simple.

Michael VE2BVW

```
From 534107564629553014
X-Google-Thread: fc2a5,807ea56648325eee
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.136.71 with SMTP id py7mr34164pbb.4.1347961747663;
        Tue, 18 Sep 2012 02:49:07 -0700 (PDT)
Path: a8ni83868684pbd.1!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 18 Sep 2012 04:49:06 -0500
Date: Tue, 18 Sep 2012 09:49:06 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows NT 5.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Info on James Knights Xtal/oven
References: <2m0qch$juu@geraldo.cc.utexas.edu><933dc065-8a1b-40e4-
bb96-7293efe311e0@googlegroups.com><Pine.LNX.4.64.1208152013480.7119@darkstar.exam
ple.net> <slrnk2oib4.1n8e.knock_yourself_out@vps.jonz.net>
<Channel.Jumper.a9d0f98@radiobanter.com>
In-Reply-To: <Channel.Jumper.a9d0f98@radiobanter.com>
Message-ID: <iZadnQSeC6kP3sXNnZ2dnUVZ_qednZ2d@bright.net>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-YJwSbrFAhrm3jig7w8uBxyj0XQcuys4L6PYTTYhWwhahqLT1ODKkCb9wzkeZdkYWW/
WOSZMJJ4HXoLz!SI2X98Q2Tg4PkysFgKdUgt+cSpz7fj2OXZtY6VPF0tNb7I01k/S3v3FD1UD9/3qAo/
o97GpHRHun!bP9DZRjlhg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1815
X-Original-Bytes: 1754
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 9-17-2012 12:25, Channel Jumper wrote:

> Look on www.Repeater-builder.com
>
> That will be as close as you will get.
>
> No one uses crystals anymore - most everything is synthesized.
>

>
>
>
We beacon operators still use crystals. Even the PLL synthesizers need
a reference frequency and that is most often a crystal oscillator.

N0EDV/B
432.324 MHz
EN45fa
Crystal Controlled GE MastrII Exciter strip
:)

```
From -3626987800563352452
X-Google-Thread: fc2a5,ea92d825e59f2b95,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.74.40 with SMTP id q8mr49408pav.19.1347985390474;
        Tue, 18 Sep 2012 09:23:10 -0700 (PDT)
MIME-Version: 1.0
Received: by 10.68.134.129 with SMTP id pk1mr177243pbb.13.1347985390459; Tue,
 18 Sep 2012 09:23:10 -0700 (PDT)
Path: a8ni77828999pbd.1!nntp.google.com!4no18187673pbn.1!postnews.google.com!
kn3g2000pbc.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Tue, 18 Sep 2012 09:23:10 -0700 (PDT)
Complaints-To: groups-abuse@google.com
Injection-Info: kn3g2000pbc.googlegroups.com; posting-host=117.199.250.44;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
NNTP-Posting-Host: 117.199.250.44
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Message-ID: <53c68391-5818-4be9-babc-bf89599cbd40@kn3g2000pbc.googlegroups.com>
Subject: HOT PHOTOS & VIDEOS
From: sharu <sharanya9030@gmail.com>
Injection-Date: Tue, 18 Sep 2012 16:23:10 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

ENGENEERING COLLEGE GIRLS ENJOYMENT VIDOES
http://youtu.be/8itq-a9Mp_c
PAWANS Camera Man Ganga Tho Rambabu Movie Stills
http://actressgallery-images.blogspot.in/2012/09/camera-man-ganga-tho-rambabu-movie.html
PRABHAS REBEL MOVIE STILLS
http://actressgallery-images.blogspot.in/2012/09/rebel-movie-stills.html
AGNATHAM MOVIE WALLPAPERS
http://actressgallery-images.blogspot.in/2012/09/agnatham-movie-stills.html
SADA HOT STILLS IN MYTHILI MOVIE
http://actressgallery-images.blogspot.in/2012/09/mythili-movie-stills.html

RIYA CHAKRAVARTHI LATEST GALLERY
http://actressgallery-images.blogspot.in/2012/09/ria-chakravarthi.html
TELISI TELIYAKA MOVIE STILLS
http://actressgallery-images.blogspot.in/2012/09/telisi-teliyaka-movie-stills.html
LIVE MOVIE LATEST PHOTOS
http://actressgallery-images.blogspot.in/2012/09/live-movie-stills.html
ANAGARIGAM 2 MOVIE HOT STILLS
http://actressgallery-images.blogspot.in/2012/08/anagarigam-2-movie-stills.html
CHARULATHA MOVIE SPICY STILLS
http://actressgallery-images.blogspot.in/2012/08/charulatha-telugu-movie-images.html
LOVE CYCLE LATEST MOVIE GALLERY
http://actressgallery-images.blogspot.in/2012/08/love-cycle-telugu-movie-photos.html
NIRANTHARAM NEE OOHALE GALLERY
http://actressgallery-images.blogspot.in/2012/08/nirantharam-nee-oohale-movie-stills.html
SAIBABA MOVIE IMAGES
http://actressgallery-images.blogspot.in/2012/08/nagarjuna-shridi-sai-movie-stills.html
SRIDEVI ENGLISH VINGLISH MOVIE IMAGES
http://actressgallery-images.blogspot.in/2012/08/sri-devi-english-vinglish-movie-stills.html
SUDIGADU FILM GALLERY
http://actressgallery-images.blogspot.in/2012/08/sudigadu-movie-stills.html

HOT GIRLS VIDEOS

University Girls Party Enjoyment
http://youtu.be/xvKiwWcDDM0
Hostel girls Secret Enjoyments
http://youtu.be/LiX__IFTBoo
Girls Dance ForBollywood Latest hits
http://youtu.be/-5PDndnMPro
Engineering college girls Enjoyment
http://youtu.be/8itq-a9Mp_c
GIRAFFE VIDEO IN ZOOPARK
http://youtu.be/JTd9BWU9_4o

```
From -8130976426525196238
X-Google-Thread: 11480d,f401327f0cefbecf,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,f401327f0cefbecf,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid7221ecd0f7,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.181.11.234 with SMTP id el10mr104976wid.2.1348293904768;
        Fri, 21 Sep 2012 23:05:04 -0700 (PDT)
MIME-Version: 1.0
Path: ed8ni16813457wib.0!nntp.google.com!goblin3!goblin.stu.neva.ru!
news.ripco.com!news.glorb.com!news-out.readnews.com!transit3.readnews.com!panix!
```

```
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1346997900@panix.com>
Followup-To: poster
Date: 22 Sep 2012 02:05:04 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 10 Oct 2012 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1348293901@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1348293904 7459 166.84.1.2 (22 Sep 2012 06:05:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 22 Sep 2012 06:05:04 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted twice monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been
recently revived by an active moderation team.  We are currently seeking
suitable information, FAQ, and bulletin articles from the entire
rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our
newsgroup.

We are seeking a replacement maintainer for the following information
bulletin formerly posted to rec.radio.amateur.* (and currently archived
at http://www.faqs.org/faqs/radio/personal-intro/ ):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article       |
is that it does not mention newer amateur radio newsgroups created since      |
it was written, including:                                                    |

 rec.radio.amateur.antenna                                                    |
 rec.radio.amateur.boatanchors                                                |
 rec.radio.amateur.dx                                                        |
 rec.radio.amateur.equipment                                                 |
 rec.radio.amateur.homebrew                                                  |
 rec.radio.amateur.moderated                                                 |
 rec.radio.amateur.space                                                     |
```

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

```
From 3526298345329152632
X-Google-Thread: 107ada,34998a90cd5f8ff2,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,34998a90cd5f8ff2,start
X-Google-NewGroupId: yes
X-Google-Attributes: gida3e752f117,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.90.102 with SMTP id bv6mr2197257pab.34.1348488528076;
        Mon, 24 Sep 2012 05:08:48 -0700 (PDT)
Path: t10ni20807932pbh.0!nntp.google.com!news.glorb.com!usenet.stanford.edu!panix!
rri.panix.com!robomod!not-for-mail
From: rec-radio-info-request@panix.com (SolderSmoke via rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.
radio.info
Subject: SolderSmoke Podcast for Monday 24 September 2012
Followup-To:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Date: Mon, 24 Sep 2012 08:08:47 EDT
Organization: SolderSmoke
Lines: 12
Approved: RRI Admin <rec-radio-info-request@panix.com>
Message-ID: <20cf303dd5b26b900604ca6fb117@google.com>
NNTP-Posting-Host: panix6.panix.com
Mime-Version: 1.0
X-Trace: reader1.panix.com 1348488527 28603 166.84.1.6 (24 Sep 2012 12:08:47 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 24 Sep 2012 12:08:47 +0000 (UTC)
X-RRI-Policy: http://www.panix.com/~rram/usenet/rri/index.html
X-RRI-Info-1: Send submissions to             rec-radio-info@panix.com
```

```
X-RRI-Info-2: Send technical complaints to    rec-radio-info-request@panix.com
X-RRI-Info-3: Send complaints about policy to rec-radio-info-request@panix.com
X-Comment-1: The moderators do not necessarily agree or disagree with this
article.
X-Comment-2: Moderators do not verify the accuracy of posted information.
X-Comment-3: Acceptance does not convey approval of any external references.
X-Robomod: STUMP, ichudov@algebra.com (Igor Chudov), C++/Perl/Unix Consulting
X-Moderation-1: Hassle-Free commercial hosting of moderation sites available
X-Moderation-2: See http://www.algebra.com/~ichudov/stump
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
        d=google.com; s=20120113;
        h=mime-version:sender:precedence:message-id:date:subject:from:to
         :content-type;
        bh=rBrLDR9cM+arDE3vlJEGXNuK2lCoRm3+HIiAd0X6XLo=;
        b=IZQDj8/DZfxVQjv3IyCmoIjiEQYXwbdhHf4YyhvlufDZD63mf0FR44UvXD2kAiutqo
         4ycvwOa0oagx1tzoHT4GSgY/Lc2YJHP9crK0RMSHw40J7rJuCvYwX1o1tG7mHTE0+CBf
         ebTsx/3XDQLEQHcloQGDDGL5a7AVM8azBQ25wkwH2h+AIbB8x0Ms5eGFiOOn2GVuVSwz
         Cnv+C6wReiVgpV+GHQjmunf5KbHFkXh0q3ENm8ifwdKtoqD21k8MeaNhKldmvRUGhjOg
         fqUOEPE4T93u4WoNeLQX0CENVoXCogCth6SCOsDvCq/ismihq4jPY7BYxm/ezbO/NZyj
         HYDg==
X-StripMime: Non-text section removed by stripmime
Content-Type: text/plain; charset=UTF-8; format=flowed; delsp=yes
```

SolderSmoke Podcasts

///
SolderSmoke146`

Posted: 23 Sep 2012 02:47 AM PDT

SolderSmoke issue 146
This posting includes a media file:
http://www.soldersmoke.com/soldersmoke146.mp3

```
From 3401428962145166456
X-Google-Thread: 241b302a50,2ef48c199566e957,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.85.1 with SMTP id d1mr2863937paz.36.1348883716118;
        Fri, 28 Sep 2012 18:55:16 -0700 (PDT)
MIME-Version: 1.0
Received: by 10.68.229.231 with SMTP id st7mr2868898pbc.2.1348883716100; Fri,
 28 Sep 2012 18:55:16 -0700 (PDT)
Path: t10ni23592188pbh.0!nntp.google.com!kt20no2465648pbb.1!postnews.google.com!
g7g2000pbh.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Fri, 28 Sep 2012 18:55:16 -0700 (PDT)
Complaints-To: groups-abuse@google.com
Injection-Info: g7g2000pbh.googlegroups.com; posting-host=117.199.244.137;
```

posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
NNTP-Posting-Host: 117.199.244.137
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:10.0.2) Gecko/20100101 Firefox/10.0.2,gzip(gfe)
Message-ID: <c5cdf516-53a9-43c0-9baa-a7c7d320f833@g7g2000pbh.googlegroups.com>
Subject: HOT 2 HOT SEXY BEST VIDEOS PHOTOS TOOOO U'
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Injection-Date: Sat, 29 Sep 2012 01:55:16 +0000
Content-Type: text/plain; charset=ISO-8859-1

VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.in/2011/06/real-kiss-hot-videos.html

HOT HOT LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/hot-for-youth.html
SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-101.html
YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.in/2010/06/supr-hot-never-seen.html
SUPER HOT NEVER SEEN
http://hotvideosfreesee.blogspot.in/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/kajal-best-lip-kiss.html

for mopre hot videos
http://allvideosforyouth.blogspot.in/2010/08/super-hot-lip-kiss.html

jobs
http://alljobsaywhere.blogspot.in/

mobile

mobile games free download
http://mobileallinforation.blogspot.in

interview question
java interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/java-interview-questions-and-answers.html
oracle interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/oracle-interview-questions-and-answers.html
hardware interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/hardware-interview-questions-and-answers.html
networking interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/networking-interview-questions-and.html
dotnet interview questions and answers

http://alljobsandinterviwquestions.blogspot.com/2012/08/dotnet-interview-questions-and-answers.html
c interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/c-interview-questions-and-answers.html
datawarehousing interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/datawarehousing-interview-questions-and.html
sap interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/sap-interview-questions-and-answers.html

all jobs
java jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/java-jobs.html
oracle jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/oracle-jobs.html
sap jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/sap-jobs.html
hardware jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/hardware-jobs.html
networking jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/networking-jobs.html
datawarehousing jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/datawarehousing-jobs.html
GOOGLE ADSENSE
http://alljobsandinterviwquestions.blogspot.com/2012/08/google-adsense.html

```
From -6204414435756335517
X-Google-Thread: fc2a5,c5f1631ff0141229,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.84.168 with SMTP id a8mr4124759paz.25.1349055912761;
        Sun, 30 Sep 2012 18:45:12 -0700 (PDT)
MIME-Version: 1.0
Received: by 10.68.212.99 with SMTP id nj3mr3591963pbc.20.1349055912746; Sun,
 30 Sep 2012 18:45:12 -0700 (PDT)
Path: g9ni8152pbh.1!nntp.google.com!kq19no6144580pbb.0!postnews.google.com!t2g2000pbt.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Sun, 30 Sep 2012 18:45:12 -0700 (PDT)
Complaints-To: groups-abuse@google.com
Injection-Info: t2g2000pbt.googlegroups.com; posting-host=117.199.246.82; posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
NNTP-Posting-Host: 117.199.246.82
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:10.0.2) Gecko/20100101 Firefox/
```

```
10.0.2,gzip(gfe)
Message-ID: <861ed598-ef13-4f9c-a4ba-4107b86333cd@t2g2000pbt.googlegroups.com>
Subject: HOT SEXY SUPER VIDEOS AND CUTE KISS PHOTOS]
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Injection-Date: Mon, 01 Oct 2012 01:45:12 +0000
Content-Type: text/plain; charset=ISO-8859-1

      A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.in/

             ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.in/2010/09/hot-lip-kiss-135.html

               ALL  JOBS   SITES FREE SEE

http://jobstwo.blogspot.in/

HOT VIDEOS

http://hotvideotoou.blogspot.in/2011/01/kiss-videos.html

hot lip kiss
http://hotvidos.blogspot.in/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.in/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.in/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.in/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.in/2010/07/tamil-hot-videos.html


From 2369565969344908569
X-Google-Thread: a4a23d5f63,306386444ccba5bd,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.78.209 with SMTP id m17mr9830087qak.3.1349071203819;
        Sun, 30 Sep 2012 23:00:03 -0700 (PDT)
MIME-Version: 1.0
Path: e10ni144502092qan.0!nntp.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1347688801@panix.com>
Followup-To: poster
```

Date: 1 Oct 2012 02:00:02 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 19 Oct 2012 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1349071201@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1349071203 24753 166.84.1.2 (1 Oct 2012 06:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 1 Oct 2012 06:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted twice monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. After a successful trial |
period (90 days, through early July 2009), we decided to adopt this |
change permanently. |

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From 5267810140411169041
X-Google-Thread: 241b302a50,9bcab25ca7a8eb11,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.232.1 with SMTP id tk1mr550413pbc.7.1349206223582;
        Tue, 02 Oct 2012 12:30:23 -0700 (PDT)
MIME-Version: 1.0
Received: by 10.68.204.134 with SMTP id ky6mr719108pbc.1.1349206223569; Tue,
 02 Oct 2012 12:30:23 -0700 (PDT)
Path: t10ni23601408pbh.0!nntp.google.com!kt20no7147424pbb.1!postnews.google.com!
k13g2000pbq.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Tue, 2 Oct 2012 12:30:23 -0700 (PDT)
Complaints-To: groups-abuse@google.com
Injection-Info: k13g2000pbq.googlegroups.com; posting-host=117.199.240.142;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
NNTP-Posting-Host: 117.199.240.142
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Message-ID: <184d7052-e2a1-413a-a521-6487d5238111@k13g2000pbq.googlegroups.com>
Subject: HOT PHOTOS & VIDEOS
From: sharu <sharanya9030@gmail.com>
Injection-Date: Tue, 02 Oct 2012 19:30:23 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

KAJL AGARWAL SPICY STILLS IN BROTHERS MOVIE
http://actressgallery-images.blogspot.in/2012/10/brothers-movie-photos.html
Cameraman Gangatho Rambabu Movie Stills
http://actressgallery-images.blogspot.in/2012/10/cameraman-gangatho-rambabu-movie-stills.html
DAMARUKAM MOVIE HOT SPCY GALLERY
http://actressgallery-images.blogspot.in/2012/10/damarukam-movie-stills.html
ACTRESS POORNA LATEST HOT PHOTOS
http://actressgallery-images.blogspot.in/2012/09/poorna.html
Crazy Cheer GirlsSuper Dance Videos
http://youtu.be/f91izd0BdyU
Yuvraj Singh Smashes Pakistan Bowler

http://youtu.be/9y-kPCP0Ku4
Crazy Girl Super Dance
http://youtu.be/f91izd0BdyU
COMPLICATED TRUE LOVE STORY
http://youtu.be/MUE_rZ0onsc
Amrutha First night videos
http://youtu.be/vk2foRUABao
ENGENEERING COLLEGE GIRLS ENJOYMENT VIDOES
http://youtu.be/8itq-a9Mp_c
PAWANS Camera Man Ganga Tho Rambabu Movie Stills
http://actressgallery-images.blogspot.in/2012/09/camera-man-ganga-tho-rambabu-movie.html
PRABHAS REBEL MOVIE STILLS
http://actressgallery-images.blogspot.in/2012/09/rebel-movie-stills.html
AGNATHAM MOVIE WALLPAPERS
http://actressgallery-images.blogspot.in/2012/09/agnatham-movie-stills.html
SADA HOT STILLS IN MYTHILI MOVIE
http://actressgallery-images.blogspot.in/2012/09/mythili-movie-stills.html
RIYA CHAKRAVARTHI LATEST GALLERY
http://actressgallery-images.blogspot.in/2012/09/ria-chakravarthi.html
TELISI TELIYAKA MOVIE STILLS
http://actressgallery-images.blogspot.in/2012/09/telisi-teliyaka-movie-stills.html
LIVE MOVIE LATEST PHOTOS
http://actressgallery-images.blogspot.in/2012/09/live-movie-stills.html
ANAGARIGAM 2 MOVIE HOT STILLS
http://actressgallery-images.blogspot.in/2012/08/anagarigam-2-movie-stills.html
CHARULATHA MOVIE SPICY STILLS
http://actressgallery-images.blogspot.in/2012/08/charulatha-telugu-movie-images.html
LOVE CYCLE LATEST MOVIE GALLERY
http://actressgallery-images.blogspot.in/2012/08/love-cycle-telugu-movie-photos.html
NIRANTHARAM NEE OOHALE GALLERY
http://actressgallery-images.blogspot.in/2012/08/nirantharam-nee-oohale-movie-stills.html
SAIBABA MOVIE IMAGES
http://actressgallery-images.blogspot.in/2012/08/nagarjuna-shridi-sai-movie-stills.html
SRIDEVI ENGLISH VINGLISH MOVIE IMAGES
http://actressgallery-images.blogspot.in/2012/08/sri-devi-english-vinglish-movie-stills.html
SUDIGADU FILM GALLERY
http://actressgallery-images.blogspot.in/2012/08/sudigadu-movie-stills.html

HOT GIRLS VIDEOS

University Girls Party Enjoyment
http://youtu.be/xvKiwWcDDM0
Hostel girls Secret Enjoyments
http://youtu.be/LiX__IFTBoo
Girls Dance ForBollywood Latest hits
http://youtu.be/-5PDndnMPro
Engineering college girls Enjoyment

http://youtu.be/8itq-a9Mp_c
GIRAFFE VIDEO IN ZOOPARK
 http://youtu.be/JTd9BWU9_4o

```
From 3302055939942852436
X-Google-Thread: fc2a5,cf2dd70a5bab2e4e,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.76.38 with SMTP id h6mr270185paw.15.1349240585154;
        Tue, 02 Oct 2012 22:03:05 -0700 (PDT)
MIME-Version: 1.0
Path: g9ni17813pbh.1!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 03 Oct 2012 00:03:04 -0500
From: joseph2010 <joseph2010.ab17ed8@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Modifying an SWR meter
Date: Tue, 2 Oct 2012 23:23:51 +0000
Message-ID: <joseph2010.ab17ed8@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
Lines: 15
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-di888U1scLPMAv/sS49IQUtMPhU+sVxuKcXM/sBY/
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COZRO5QMIcjmovB3TasLwPQZrXRw9EKMJwJkc0I!MGequ0nRCw==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1434
X-Original-Lines: 5
X-Original-Bytes: 1351
```

I have an old Magnadyne SWR-72 for 11 meter (CB). I want to modify it so I can use it on 2 meter (VHF).

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I would submit a photo but I don't know how to attach to this message.
Thanks in advance.

```
--
joseph2010


From -3789878620473625890
X-Google-Thread: fc2a5,1f0e7866fc24c7a2,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.72.130 with SMTP id d2mr352911pav.33.1349251017213;
        Wed, 03 Oct 2012 00:56:57 -0700 (PDT)
MIME-Version: 1.0
Received: by 10.68.197.70 with SMTP id is6mr1036514pbc.14.1349251017197; Wed,
 03 Oct 2012 00:56:57 -0700 (PDT)
Path: t10ni23606524pbh.0!nntp.google.com!kt20no7677328pbb.1!postnews.google.com!
lo4g2000pbb.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Wed, 3 Oct 2012 00:56:57 -0700 (PDT)
Complaints-To: groups-abuse@google.com
Injection-Info: lo4g2000pbb.googlegroups.com; posting-host=117.199.253.94;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
NNTP-Posting-Host: 117.199.253.94
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:15.0) Gecko/20100101 Firefox/
15.0.1,gzip(gfe)
Message-ID: <eb07fc7b-96ce-4bee-9a61-8874c5a5249d@lo4g2000pbb.googlegroups.com>
Subject: HOT VIDEOS SEXY PHOTOS WATCH AND FREE DOWNLOAD 21]
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Injection-Date: Wed, 03 Oct 2012 07:56:57 +0000
Content-Type: text/plain; charset=ISO-8859-1

      A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.in/

             ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.in/2010/09/hot-lip-kiss-135.html

               ALL  JOBS   SITES FREE SEE

http://jobstwo.blogspot.in/

HOT VIDEOS

http://hotvideotoou.blogspot.in/2011/01/kiss-videos.html

hot lip kiss
http://hotvidos.blogspot.in/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.in/2010/07/hot-kisses.html
```

hollywood hot videos
http://hotvidos.blogspot.in/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.in/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.in/2010/07/tamil-hot-videos.html

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From -5313396279877409515
X-Google-Thread: fc2a5,cf2dd70a5bab2e4e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.222.225 with SMTP id qp1mr1140699pbc.8.1349275382734;
        Wed, 03 Oct 2012 07:43:02 -0700 (PDT)
MIME-Version: 1.0
Path: g9ni17117pbh.1!nntp.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx01.iad01.newshosting.com!
newshosting.com!216.196.98.142.MISMATCH!border3.nntp.dca.giganews.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!nntp.earthlink.com!news.earthlink.com.POSTED!not-for-
mail
NNTP-Posting-Date: Wed, 03 Oct 2012 09:43:01 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <joseph2010.ab17ed8@radiobanter.com>
Subject: Re: Modifying an SWR meter
Date: Wed, 3 Oct 2012 10:42:59 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
Message-ID: <a4GdnVouuOpo0_HNnZ2dnUVZ_oidnZ2d@earthlink.com>
Lines: 31
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.148.196.5
X-Trace: sv3-uGtKg5dXPy2mJE7MgfVAj39HO47RyGBcyFfkNPq+H6oINo/lhcTlZpwP/
36JRJO1n2e82ix2corO7LU!
jJ764gVOGQnqBazsKu7Q9Z7OJyJtJLGkvz3cHg9AMd9EEFuxTLlesSK7os6byGfTMGW/YIxXP/Rm!
oEAZwi6OD2ftY6ZXiA4=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 2570
X-Original-Bytes: 2509
X-Received-Bytes: 2717
```

"joseph2010" <joseph2010.ab17ed8@radiobanter.com> wrote in message
news:joseph2010.ab17ed8@radiobanter.com...
>

> I have an old Magnadyne SWR-72 for 11 meter (CB). I want to modify it
> so I can use it on 2 meter (VHF).
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> in parallel with a couple 150 ohm resistors. Can i change the meter's
> frequency response by changing the RC combination in the circuit?
>
> I would submit a photo but I don't know how to attach to this message.
> Thanks in advance.

That appears to be the same as several types of SWR meters with a differant name. Most of them were rated to go to 150 mhz. Some were in about the same box with two meters on the box and no forward/reverse switch. I have used one up to 220 mhz and it seemed ok for adjusting for minimum SWR. They will not work at all at 440 mhz for swr.

The resistor is to match the internal line to the impedance. The .001 cap is just an RF bypass. The main things that determin the frequency are the two wires that are parallel to the wire going from the centers of the two pl259 connectors. If too short, they will not pick up enough signal to set the meter to full scale. If too long, they will not respond to the direction of the forward to reverse power.

If the meter is built like that, it will probably work from 0 meters to two meters just as it is.

```
From -1026510440842449294
X-Google-Thread: fc2a5,cf2dd70a5bab2e4e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.72.134 with SMTP id d6mr897166pav.20.1349305423086;
        Wed, 03 Oct 2012 16:03:43 -0700 (PDT)
MIME-Version: 1.0
Path: g9ni20486pbh.1!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 03 Oct 2012 18:03:42 -0500
From: joseph2010 <joseph2010.ab27bf9@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Modifying an SWR meter
Date: Wed, 3 Oct 2012 19:51:52 +0000
Message-ID: <joseph2010.ab27bf9@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
References: <joseph2010.ab17ed8@radiobanter.com>
<a4GdnVouuOpo0_HNnZ2dnUVZ_oidnZ2d@earthlink.com>
Lines: 52
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X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Bvl6BQOGc9rJcNYd+VtP/rp2T+/
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cxV8gi0nfA==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 3054
X-Original-Lines: 30
X-Original-Bytes: 2971

Ralph Mowery;796959 Wrote:
> "joseph2010" joseph2010.ab17ed8@radiobanter.com wrote in message
> news:joseph2010.ab17ed8@radiobanter.com...-
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> direction of the forward to reverse power.
>
> If the meter is built like that, it will probably work from 0 meters to
> two

> meters just as it is.

Ralph, Thanks for your informative reply. You're right, there were several manufacturers that made these units (Midland, Pace, Numark, etc.). I did try to hook it up, but the SWR was 1.3:1 (almost the same as I got with a dummy load), which I thought was too good to be true, but maybe it was due to the low wattage being used (<4 watts). I'll get some proper cables built and go from there. Thanks again.

--
joseph2010

From 7921776856107766716
X-Google-Thread: fc2a5,cf2dd70a5bab2e4e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.86.97 with SMTP id o1mr440308paz.31.1349308589313;
        Wed, 03 Oct 2012 16:56:29 -0700 (PDT)
MIME-Version: 1.0
Path: t10ni23609877pbh.0!nntp.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.earthlink.com!
news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 03 Oct 2012 18:56:28 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <joseph2010.ab17ed8@radiobanter.com>
<a4GdnVouuOpo0_HNnZ2dnUVZ_oidnZ2d@earthlink.com>
<joseph2010.ab27bf9@radiobanter.com>
Subject: Re: Modifying an SWR meter
Date: Wed, 3 Oct 2012 19:56:28 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
Message-ID: <hpSdnR2GfNYwTfHNnZ2dnUVZ_t6dnZ2d@earthlink.com>
Lines: 34
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.148.196.5
X-Trace: sv3-FSorcLVYR5AdhCc/
o5SMyxQJdtLl+zEyuylwuko0oHCXG7LDnfq3EbHOP0Fb+8hz+TDaaRs5p+tSfP/!
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NTUFu2VvoARO0lpRczE=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly

X-Postfilter: 1.3.40
Bytes: 2970
X-Original-Bytes: 2909
X-Received-Bytes: 3050

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news:joseph2010.ab27bf9@radiobanter.com...

> Ralph, Thanks for your informative reply.   You're right, there were
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> etc.). I did try to hook it up, but the SWR was 1.3:1 (almost the same
> as I got with a dummy load), which I thought was too good to be true,
> but maybe it was due to the low wattage being used (<4 watts). I'll get
> some proper cables built and go from there. Thanks again.

If you can get two 50 ohm dummy loads you can put them into a T connector and the swr should be around 2:1.   That is one way to run a quick check.

Some times using low power will cause the swr to show differant as the diodes will not have enough voltage to act the same as they do with a higher voltage. That is called the square law reagon. While the readings may not be accurate, the lower the reverse reading, the better.

I should qualify that statement about the SWR. The actual SWR will be the same nomater what power you use, but some meters will show a differant ammount due to the way the diodes act.

Depending on the antenna and the ammount of coax, the swr can be shown as very low. If you have around 100 feet of rg58, the swr the meter shows will be very low and not too much you do at the antenna will change it.
I made that mistake about 40 years ago when I built a 2 meter antenna and fed it with 100 feet of rg-8. The swr was about 3:1 and nothing I did would change it. Turns out that the center wire was not hooked to the antenna.
The coax has enough loss that it will only show about 3:1 with nothing connected to it at 2 meters.

From -421107546285246624
X-Google-Thread: fc2a5,cf2dd70a5bab2e4e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.226.41 with SMTP id rp9mr1884697pbc.4.1349326989269;
        Wed, 03 Oct 2012 22:03:09 -0700 (PDT)
MIME-Version: 1.0
Path: t10ni23609877pbh.0!nntp.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!

news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 04 Oct 2012 00:03:08 -0500
From: joseph2010 <joseph2010.ab2d058@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Modifying an SWR meter
Date: Thu, 4 Oct 2012 05:03:57 +0000
Message-ID: <joseph2010.ab2d058@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
References: <joseph2010.ab17ed8@radiobanter.com>
<a4GdnVouuOpo0_HNnZ2dnUVZ_oidnZ2d@earthlink.com>
<joseph2010.ab27bf9@radiobanter.com>
Lines: 36
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-ROb6+1V3kSSt+/MvLPAszIhC73NioxkWn382Ux+xGJywWscgBAJhzwbWCQjNf3//
TyMs01lb1PcxHVe!O8ZCdLwT43hFwuu+BqdmgbCX//Of2ktbn6wgkSxjSEm/
AhwIWzqg+RFDi7aSM7HU1ZtYHYtx9CyI!dWUN+ualwg==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 2855
X-Original-Lines: 9
X-Original-Bytes: 2772
X-Received-Bytes: 2935

joseph2010;796969 Wrote:
> Ralph, Thanks for your informative reply.   You're right, there were
> several manufacturers that made these units (Midland, Pace, Numark,
> etc.). I did try to hook it up, but the SWR was 1.3:1 (almost the same
> as I got with a dummy load), which I thought was too good to be true,
> but maybe it was due to the low wattage being used (4 watts). I'll get
> some proper cables built and go from there. Thanks again.

I just read the following, and I'm wondering if it's true?

> I use a CB SWR meter to check 2M antennas all the time. There is a
> trick to it however.If all you want to to is check SWR on your 2M
> antenna, you don�t necessarily have to buy a dedicated VHF/UHF SWR
> meter. What I keep in my toolbag for that is a cheapie $5 hamfest
> special CB SWR meter. They really don�t work well on 2M but there�s a
> trick you can do that will net a reasonably accurate SWR reading on 2M
> with one of these meters.
>
> What you do is connect up the meter as usual, key the rig with the
> switch in the forward power position, set the adjustment for full scale.
> Now, without touching anything, swap the coax connections so that the
> rig is connected to the �ANT� side of the meter, and the antenna is
> connected to the �XCVR� side. The reading you see on the meter will be

> very close to your real SWR. The closer to 1:1 your SWR is, the more
> accurate it will be. It would be more convenient to have a real SWR
> meter or antenna analyzer if you do a lot of testing, but for a quick
> antenna check after a mobile install or whatever, the $5 CB meters work
> OK.

I'm not sure I believe this, what do you think? thanks in advance

--
joseph2010

```
From -575953938817420097
X-Google-Thread: fc2a5,aa2a7ff698f82216,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,aa2a7ff698f82216,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gida3e752f117,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.150.90 with SMTP id x26mr53389bkv.6.1333778703493;
        Fri, 06 Apr 2012 23:05:03 -0700 (PDT)
MIME-Version: 1.0
Path: h15ni95316bkw.0!nntp.google.com!news2.google.com!volia.net!news2.volia.net!
feed-A.news.volia.net!newspeer1.de.telia.net!newspeer4.de.telia.net!de.telia.net!
nx01.iad01.newshosting.com!newshosting.com!novia!news-out.readnews.com!
transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1331103900@panix.com>
Followup-To: poster
Date: 7 Apr 2012 02:05:00 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 10 May 2012 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1333778700@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1333778701 19793 166.84.1.2 (7 Apr 2012 06:05:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 7 Apr 2012 06:05:01 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
```

Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

 rec.radio.amateur.antenna |
 rec.radio.amateur.boatanchors |
 rec.radio.amateur.dx |
 rec.radio.amateur.equipment |
 rec.radio.amateur.homebrew |
 rec.radio.amateur.moderated |
 rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

From 4909416074344287085
X-Google-Thread: fc2a5,1981e280032c644e

```
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.204.131.75 with SMTP id w11mr840155bks.0.1334519615219;
        Sun, 15 Apr 2012 12:53:35 -0700 (PDT)
Path: h15ni127452bkw.0!nntp.google.com!news2.google.com!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching attenuator
Date: Sun, 15 Apr 2012 12:47:23 -0700 (PDT)
Organization: http://groups.google.com
Lines: 39
Message-ID: <23422668.2794.1334519244053.JavaMail.geo-discussion-forums@vbiz13>
References: <15909891.3791.1332069615397.JavaMail.geo-discussion-forums@vbgu10>
 <eq6dnVwKTYYvdvjSnZ2dnUVZ_vWdnZ2d@earthlink.com>
<84bb7bc0-27e4-4b16-8271-202bb1113943@ur9g2000pbc.googlegroups.com>
NNTP-Posting-Host: 155.178.4.19
Mime-Version: 1.0
X-Trace: posting.google.com 1334519615 20668 127.0.0.1 (15 Apr 2012 19:53:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 15 Apr 2012 19:53:35 +0000 (UTC)
In-Reply-To: <84bb7bc0-27e4-4b16-8271-202bb1113943@ur9g2000pbc.googlegroups.com>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=155.178.4.19;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

On Monday, April 2, 2012 5:33:17 AM UTC, K7ITM wrote:
> On Mar 18, 7:05=A0am, dave <d...@dave.dave> wrote:
> > On 03/18/2012 04:20 AM, JIMMIE wrote:
> >
> > > I am trying to design a circuit that will enable me to switch H pad a=
ttenuators in and out of a line but just cant get my head wrapped around it=
. I have come up with one method of doing it but it seems a little complica=
ted. I would greatly appreciate it if someone could direct me to a circuit =
diagram.
> >
> > > Jimmie
> >
> > Bridge the pad with a DPST switch or relay. Switch "on" pad "off".
>=20
> Errrrp.  That leaves the pad in-circuit across the line...not good in
> most situations.  Better if the switch also disconnects the pad from
> the line.  You probably need a 4PDT switch:  the four moveable
> contacts to the input and output lines, the four fixed contacts on one
> side to the four terminals of the pad, and the four fixed contacts on
> the other side wired so the line connects straight through.  You can
> do it a bit more simply by bridging the pad with the DPST as
> suggested, but also adding a SPST that is N.O. if the DPST is N.C.,
> with the SPST opening up the shunt path in the H-attenuator.
```

```
>=20
> If you leave the H-pad in the circuit, bridging it with a DPST and not
> opening up the shunt path, assuming the pad is the same impedance as
> the line (=3DR in the following...), you shunt the line with 8.7*R for a
> 1dB pad (not terrible...), 2.9*R for a 3dB pad (not so good), and
> 0.95*R for a 10dB pad (pretty awful).
>=20
> Cheers,
> Tom

Tom,That was what I came up with too. At first I thought it looked overly c=
omplicated. I was hoping there would be a simpler way that I was missing.



Jimmie



From 5090317945997322092
X-Google-Thread: fc2a5,1981e280032c644e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.227.230 with SMTP id sd6mr7565791pbc.8.1334519618343;
        Sun, 15 Apr 2012 12:53:38 -0700 (PDT)
Path: r9ni60157pbh.0!nntp.google.com!news2.google.com!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching attenuator
Date: Sun, 15 Apr 2012 12:52:06 -0700 (PDT)
Organization: http://groups.google.com
Lines: 53
Message-ID: <5371983.46.1334519526597.JavaMail.geo-discussion-forums@vbhc14>
References: <15909891.3791.1332069615397.JavaMail.geo-discussion-forums@vbgu10>
 <eq6dnVwKTYYvdvjSnZ2dnUVZ_vWdnZ2d@earthlink.com>
<84bb7bc0-27e4-4b16-8271-202bb1113943@ur9g2000pbc.googlegroups.com>
 <7-6dnbxlQsxN--fSnZ2dnUVZ_s2dnZ2d@giganews.com>
NNTP-Posting-Host: 155.178.5.19
Mime-Version: 1.0
X-Trace: posting.google.com 1334519618 20749 127.0.0.1 (15 Apr 2012 19:53:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 15 Apr 2012 19:53:38 +0000 (UTC)
In-Reply-To: <7-6dnbxlQsxN--fSnZ2dnUVZ_s2dnZ2d@giganews.com>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=155.178.5.19;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
Content-Type: text/plain; charset=ISO-8859-1

On Tuesday, April 3, 2012 2:56:15 AM UTC, Dave M wrote:
> K7ITM wrote:
> > On Mar 18, 7:05 am, dave <d...@dave.dave> wrote:
```

> >> On 03/18/2012 04:20 AM, JIMMIE wrote:
> >>
> >>> I am trying to design a circuit that will enable me to switch H pad
> >>> attenuators in and out of a line but just cant get my head wrapped
> >>> around it. I have come up with one method of doing it but it seems
> >>> a little complicated. I would greatly appreciate it if someone
> >>> could direct me to a circuit diagram.
> >>
> >>> Jimmie
> >>
> >> Bridge the pad with a DPST switch or relay. Switch "on" pad "off".
> >
> > Errrrp. That leaves the pad in-circuit across the line...not good in
> > most situations. Better if the switch also disconnects the pad from
> > the line. You probably need a 4PDT switch: the four moveable
> > contacts to the input and output lines, the four fixed contacts on one
> > side to the four terminals of the pad, and the four fixed contacts on
> > the other side wired so the line connects straight through. You can
> > do it a bit more simply by bridging the pad with the DPST as
> > suggested, but also adding a SPST that is N.O. if the DPST is N.C.,
> > with the SPST opening up the shunt path in the H-attenuator.
> >
> > If you leave the H-pad in the circuit, bridging it with a DPST and not
> > opening up the shunt path, assuming the pad is the same impedance as
> > the line (=R in the following...), you shunt the line with 8.7*R for a
> > 1dB pad (not terrible...), 2.9*R for a 3dB pad (not so good), and
> > 0.95*R for a 10dB pad (pretty awful).
> >
> > Cheers,
> > Tom
>
> This is probably what you're looking for:
> http://www.arrl.org/files/file/Technology/tis/info/pdf/9506033.pdf
> With careful construction, you should get pretty accurate results at HF and
> VHF frequencies. Using SMD resistors in the construction should yield even
> better performance than described in the construction article, since it
> looks like the author used metal or carbon film resistors, which are
> somewhat inductive. Use of a PCB and good shielding between the sections
> should give you a really good attenuator.
> Granted, the article describes a Pi-type attenuator, but the technique
> should be applicable to an H-type circuit as well..
> --
> Dave M
> A woman has the last word in any argument. Anything a man says after that is
> the beginning of a new argument.

Close Dave, I need to modify this for H type balanced pads so I am thinking 4PDT
switches.

Thanks for your suggestion and time.
Jimmie

```
From 3477372258631107165
X-Google-Thread: fc2a5,22e88b5f2405b66f,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.129.169 with SMTP id nx9mr2210701pbb.2.1334846516326;
        Thu, 19 Apr 2012 07:41:56 -0700 (PDT)
Path: r9ni74532pbh.0!nntp.google.com!news2.google.com!news1.google.com!
news.glorb.com!feeder.erje.net!eternal-september.org!feeder.eternal-september.org!
mx04.eternal-september.org!.POSTED!not-for-mail
From: "Major Samwells" <lt.col.maj@usm.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: trying to halve power to RF ammeter
Date: Thu, 19 Apr 2012 10:41:54 -0400
Organization: A noiseless patient Spider
Lines: 8
Message-ID: <jmp87j$gnb$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Thu, 19 Apr 2012 14:41:55 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="Rz/3FpGnKE6SC4JmuOhdbA";
     logging-data="17131"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19Ms3aT5Zui/xPRQ6FeeaFW"
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:lHsd2WjgfryVm0BDNwqIPk9j2JM=
X-Priority: 3
X-MSMail-Priority: Normal
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
```

I'm trying to get some accurate power readings with a low power rig (<5 W) and an RF Ammeter. The trouble is that the ammeter doesn't read quite up to the highest level of the transmitter and I need to reduce the power to the meter by about half. I'm thinking a 3 dB attenuator, but how am I going to find the oddball resistances and what about resistor wattage? Is there any other way to reduce power to the meter? Need something simple, quick-- but accurate. Thanks.

```
From -5620680163554976894
X-Google-Thread: fc2a5,22e88b5f2405b66f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.233.170 with SMTP id tx10mr1064966pbc.0.1334873613216;
        Thu, 19 Apr 2012 15:13:33 -0700 (PDT)
MIME-Version: 1.0
Path: r9ni75700pbh.0!nntp.google.com!news1.google.com!news2.google.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
```

```
local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 19 Apr 2012 17:13:32 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <jmp87j$gnb$1@dont-email.me>
Subject: Re: trying to halve power to RF ammeter
Date: Thu, 19 Apr 2012 17:13:31 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Response
Message-ID: <jc-dnTX6p_mREw3SnZ2dnUVZ_sqdnZ2d@giganews.com>
Lines: 29
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
nxl+eeIAxVZW83V+8EeTpkJ7ZCCN2BvMpzeyHdGAO4wq8c8jUeNA1TOUrHTEoo8Aj3pwO1bbvRPE5SU!
s1POU75LO4KbSh5+2h9nWSR9/p0d1Y1L94/2Um5t65cbtU96/9W2ElpFJHH4GM04lAe96cxmTqY=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2381
```

Major Samwells wrote:

> I'm trying to get some accurate power readings with a low power rig
> (<5 W) and an RF Ammeter. The trouble is that the ammeter doesn't
> read quite up to the highest level of the transmitter and I need to
> reduce the power to the meter by about half. I'm thinking a 3 dB
> attenuator, but how am I going to find the oddball resistances and
> what about resistor wattage? Is there any other way to reduce power
> to the meter? Need something simple, quick-- but accurate. Thanks.

Use the calculator at
http://chemandy.com/calculators/matching-pi-attenuator-calculator.htm to
find resistor values. This calculator lets you adjust the resistor values
to values that you have, or can easily construct, and the recalculates the
attenuation with your new values.
Don't forget that you can use parallel/series combinations to get pretty
close to the ideal values. Mouser and Digikey stock a pretty wide variety
of resistor types and values. Be sure to check them out.

You'll need to know the impedances of your transmitter output and the
antenna in order to get correct R values.

Cheers,
--
Dave M
A woman has the last word in any argument. Anything a man says after
that is the beginning of a new argument.

```
From 8189054254389947026
X-Google-Thread: fc2a5,22e88b5f2405b66f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.129.169 with SMTP id nx9mr4169049pbb.2.1334891086460;
        Thu, 19 Apr 2012 20:04:46 -0700 (PDT)
Path: r9ni76498pbh.0!nntp.google.com!news2.google.com!news1.google.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 19 Apr 2012 22:04:46 -0500
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <jmp87j$gnb$1@dont-email.me>
In-Reply-To: <jmp87j$gnb$1@dont-email.me>
Subject: Re: trying to halve power to RF ammeter
Date: Thu, 19 Apr 2012 20:04:33 -0700
MIME-Version: 1.0
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18463
Message-ID: <iI-dncFx5M_TTw3SnZ2dnUVZ5sOdnZ2d@giganews.com>
Lines: 45
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-zEq+e5ZOZDwA0/
CPoI9heSujT3QGcw8sz6YlaVic9R5nBj2vxt2VChIYr8iaoEU006aCaCQjSBvdsEU!
AgxAQ4vy2lpduf08aKZRjb+SBNsiSutB6/7KfPPxV5qZlZ5sN6aIf4sNp2NBDLfHWNyQru/I
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 3115
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit


"Major Samwells" <lt.col.maj@usm.com> wrote in message
news:jmp87j$gnb$1@dont-email.me...
> I'm trying to get some accurate power readings with a low power rig (<5 W)
> and an RF Ammeter.  The trouble is that the ammeter doesn't read quite up
> to the highest level of the transmitter and I need to reduce the power to
> the meter by about half.  I'm thinking a 3 dB attenuator, but how am I
> going to find the oddball resistances and what about resistor wattage?  Is
```

> there any other way to reduce power to the meter? Need something simple,
> quick-- but accurate. Thanks.

I'm not sure there are any simple answers to obtaining "accurate" power
readings
with an "inline" RF Ammeter. (due to variable input and output impedances
and response
of MOST RF Ammeters, and such). However it is relatively easy to increase
the
range of an RF Ammeter by shunting it (paralleling it) with a low
resistance, low
impedance resistor made from a short length of wire. (bailing wire, iron,
fence or
what have you)
The Ammeter will have a very low resistance to begin with, so a very
low resistance
homemade shunt wire resistor can be fairly short, and length determined by
quick
experimentation. Run RF through the meter and take a reading at almost (or
at) the
top end of the scale. Then temporarily jumper the meter with the homemade
shunt
and adjust it's length until the meter reads half scale (if you want to
double the meter's
range), and tighten things up. Done. At less than 5 watts you can do this
hot, with your
fingers. (assuming your final is not a tube type with plate voltage
appearing at the
antenna terminal... YIKES!!!!!
Results will definitely not be accurate, but should be repeatable for
most comparative purposes.

That's my story, and I'm sticking to it.

Old Chief Lynn, W7LTQ

From 1287895504078707551
X-Google-Thread: fc2a5,22e88b5f2405b66f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.202.168 with SMTP id kj8mr8997979pbc.1.1335021256205;
Sat, 21 Apr 2012 08:14:16 -0700 (PDT)
Path: r9ni82135pbh.0!nntp.google.com!news2.google.com!goblin1!goblin2!
goblin.stu.neva.ru!newsfeed1.swip.net!85.214.198.2.MISMATCH!eternal-september.org!
feeder.eternal-september.org!mx04.eternal-september.org!.POSTED!not-for-mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: trying to halve power to RF ammeter
Date: Sat, 21 Apr 2012 16:14:06 +0100

```
Organization: A noiseless patient Spider
Lines: 55
Message-ID: <YbXuCbB+6skPFwkS@g3ohx.demon.co.uk>
References: <jmp87j$gnb$1@dont-email.me>
 <iI-dncFx5M_TTw3SnZ2dnUVZ5sOdnZ2d@giganews.com>
Mime-Version: 1.0
Injection-Info: mx04.eternal-september.org; posting-host="1Z/M1oM6JVqBnMi2uYI0kA";
     logging-data="12382"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/NONxf6ix9Cl/Yh2PZnkODggWDc4KzltY="
User-Agent: Turnpike/6.07-S (<nlaqWaFrKPzUbPCjohEoeAGa+Z>)
Cancel-Lock: sha1:XF+uv6zXIRf9ZXypr80Krsj2NKg=
Content-Type: text/plain;charset=us-ascii;format=flowed

In message <iI-dncFx5M_TTw3SnZ2dnUVZ5sOdnZ2d@giganews.com>, coffelt2
<coffelt2@comcast.net> writes
>
>"Major Samwells" <lt.col.maj@usm.com> wrote in message
>news:jmp87j$gnb$1@dont-email.me...
>> I'm trying to get some accurate power readings with a low power rig
>>(<5 W)  and an RF Ammeter.  The trouble is that the ammeter doesn't
>>read quite up  to the highest level of the transmitter and I need to
>>reduce the power to  the meter by about half.  I'm thinking a 3 dB
>>attenuator, but how am I  going to find the oddball resistances and
>>what about resistor wattage?  Is  there any other way to reduce power
>>to the meter?  Need something simple,  quick-- but accurate.  Thanks.
>
>
>    I'm not sure there are any simple answers to obtaining "accurate"
>power readings
>with an "inline" RF Ammeter. (due to variable input and output
>impedances and  response
>of MOST RF Ammeters, and such). However it is relatively easy to
>increase the
>range of an RF Ammeter by shunting it (paralleling it) with a low
>resistance, low
>impedance resistor made from a short length of wire. (bailing wire,
>iron, fence or
>what have you)
>    The Ammeter will have a very low resistance to begin with, so a
>very low resistance
>homemade shunt wire resistor can be fairly short, and length determined
>by quick
>experimentation. Run RF through the meter and take a reading at almost
>(or at) the
>top end of the scale. Then temporarily jumper the meter with the
>homemade shunt
>and adjust it's length until the meter reads half scale (if you want to
>double the meter's
>range), and tighten things up. Done. At less than 5 watts you can do
>this hot, with your
>fingers. (assuming your final is not a tube type with plate voltage
>appearing at the
>antenna terminal... YIKES!!!!!
```

>   Results will definitely not be accurate, but should be repeatable
>for most comparative purposes.
>
>That's my story, and I'm sticking to it.
>
>Old Chief Lynn, W7LTQ

This is exactly how I would do it (in fact, I'm sure I did this about 50 years ago). As you say, a thermocouple RF ammeter will have a very low resistance between the terminals - and there's no reason why you can't measure it with a (probably digital) multimeter. You will then have a good idea of the value of shunt you will need. You can then do the final adjust-on-test 'make it read half' procedure.
--
Ian

```
From -5776382054558123917
X-Google-Thread: fc2a5,d44fa8b910339194,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.227.230 with SMTP id sd6mr9783392pbc.8.1335049674381;
        Sat, 21 Apr 2012 16:07:54 -0700 (PDT)
Path: r9ni83370pbh.0!nntp.google.com!news2.google.com!postnews.google.com!
2g2000yqk.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 2.5KVA transformer on square wave 1000hz mains
Date: Sat, 21 Apr 2012 16:06:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <e9a085d0-b243-459d-9e19-2e502893d57a@2g2000yqk.googlegroups.com>
NNTP-Posting-Host: 66.87.7.71
Mime-Version: 1.0
X-Trace: posting.google.com 1335049674 7084 127.0.0.1 (21 Apr 2012 23:07:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 21 Apr 2012 23:07:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 2g2000yqk.googlegroups.com; posting-host=66.87.7.71; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; Linux i686) AppleWebKit/535.11 (KHTML,
 like Gecko) Ubuntu/10.04 Chromium/17.0.963.79 Chrome/17.0.963.79 Safari/
535.11,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

I just bought a 50/60 hz transformer rated 575VAC
pri to 230VAC sec
rated at 2.5KVA on ebay. I remember reading some time ago that
transformer companies rated their transformers to 1000 hz.

I'm needing like a 3KVDC at about 1.5KVA semi regulated supply but don't like to use lots of mfd's of filtering at higher voltages to get there. For a 4X1 PA ima building.

So I figure getting there by using a tl494 and bridge switching 4 IGBT's at 1000hz square wave on a 130VDC supply to the 230VAC winding on the transformer. AT square wave I figure 325 VAC output, from the 575VAC side.

Running a 10 step ladder multiplier, that would be 5 steps negative and 5 step positive I should get around 3250VDC. On a half wave multiplier I figure the last step being hit by 200 hz pulses at each end of the ladder.

So Am I just spinning my Wheels? and stick with 60hz and lots of mfd's with a autoformer configuration getting more VDC per step and going with 6 steps, 3 up and 3 down at 60hz? And no easy way of regulation?

73
de N8ZU somewhere in 8 land

From -2160770594528886039
X-Google-Thread: fc2a5,fcc0eb4b99bfefb1,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.233.170 with SMTP id tx10mr12469860pbc.0.1335210018180;
        Mon, 23 Apr 2012 12:40:18 -0700 (PDT)
Path: r9ni90319pbh.0!nntp.google.com!news2.google.com!postnews.google.com!m13g2000yqi.googlegroups.com!not-for-mail
From: ibm laptop <ibmlaptop2007@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: C&K/Microswitch switch lots, electronics parts, vintage radios, etc.
Date: Mon, 23 Apr 2012 12:38:51 -0700 (PDT)
Organization: http://groups.google.com
Lines: 8
Message-ID: <b7c35a3f-7f36-4a52-8c53-eb69abc1a16b@m13g2000yqi.googlegroups.com>
NNTP-Posting-Host: 174.20.154.240
Mime-Version: 1.0
X-Trace: posting.google.com 1335210018 4856 127.0.0.1 (23 Apr 2012 19:40:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 23 Apr 2012 19:40:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m13g2000yqi.googlegroups.com; posting-host=174.20.154.240; posting-account=KmDxMAoAAAAWhZ5qFpyclCEHWWCMRjW-
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:11.0) Gecko/20100101 Firefox/11.0,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

Several listings going on at the moment - HH Smith spacers, Bussmann silver-plated fuse clips, sealed MicroSwitch toggle switches, 5 pc.

lots of C&K / Dialight / etc. electronics switches, 1960 Westinghouse
transistor radio, and so on... see them all here;

http://www.ebay.com/sch/bobsx/m.html

Thanks for your time.

```
From 6883287618420656521
X-Google-Thread: fc2a5,85a41fb9a9ca9f85,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.232.42 with SMTP id tl10mr8780271pbc.7.1335521789641;
        Fri, 27 Apr 2012 03:16:29 -0700 (PDT)
Path: r9ni104016pbh.0!nntp.google.com!news2.google.com!postnews.google.com!
vy9g2000pbc.googlegroups.com!not-for-mail
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: BEST 10 HOT SEXY VIDEOS AND MASALA KISS PHOTOS
Date: Fri, 27 Apr 2012 03:16:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 50
Message-ID: <f1f50cc0-17eb-4f1e-9491-7027c22f46d3@vy9g2000pbc.googlegroups.com>
NNTP-Posting-Host: 117.199.249.241
Mime-Version: 1.0
X-Trace: posting.google.com 1335521789 9368 127.0.0.1 (27 Apr 2012 10:16:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 27 Apr 2012 10:16:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: vy9g2000pbc.googlegroups.com; posting-host=117.199.249.241;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.in/2011/06/real-kiss-hot-videos.html

HOT HOT LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/hot-for-youth.html

SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-101.html
YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.in/2010/06/supr-hot-never-seen.html
SUPER HOT NEVER SEEN
http://hotvideosfreesee.blogspot.in/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/kajal-best-lip-kiss.html

for mopre hot videos
http://allvideosforyouth.blogspot.in/2010/08/super-hot-lip-kiss.html

jobs
http://alljobsaywhere.blogspot.in/

mobile

mobile games free download
http://mobileallinforation.blogspot.in/2010/08/mobile-games-free-download.html

mobile ringtones free download
http://mobileallinforation.blogspot.in/2010/08/mobile-ringtones-free-download.html

```
From -1074293113443103174
X-Google-Thread: fc2a5,d44fa8b910339194
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.232.42 with SMTP id tl10mr12197082pbc.7.1335630088191;
        Sat, 28 Apr 2012 09:21:28 -0700 (PDT)
MIME-Version: 1.0
Path: r9ni108764pbh.0!nntp.google.com!news1.google.com!news2.google.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 28 Apr 2012 11:21:27 -0500
Reply-To: "Leland C. Scott" <kc8ldo@arrl.net>
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <e9a085d0-b243-459d-9e19-2e502893d57a@2g2000yqk.googlegroups.com>
Subject: Re: 2.5KVA transformer on square wave 1000hz mains
```

Date: Sat, 28 Apr 2012 12:21:26 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
Message-ID: <WsydnfR1dZSahAHSnZ2dnUVZ_jWdnZ2d@giganews.com>
Lines: 44
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-B5cOU8zSTIQXrsKJsnTrdxqk6ySZgN/
qO4rXZd+BDo2JFiwHJ7y9XNHQTUzqNp37lam3hX89jTTFo2c!/
bMQ4jsP4otvXpcO5zM4H+3UPwsoCWk8f0IP09ZlVlhLONeV8F4hjqIlRwcbhKnWjCIGSPbAyw==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2851

Raypasi,

Running the transformer at 1KHz will likely cook the core. The laminations will be much too thick at that frequency to keep the eddy current heating to an acceptable level. Generally the higher the frequency the thinner the laminations have to be. At some point the core material is changed to something else, like ferrite, to keep the heating down.

73's

Leland C. Scott
KC8LDO

"raypsi" <rborowiak@gmail.com> wrote in message
news:e9a085d0-b243-459d-9e19-2e502893d57a@2g2000yqk.googlegroups.com...
>I just bought a 50/60 hz transformer rated 575VAC
> pri to 230VAC sec
> rated at 2.5KVA on ebay. I remember reading some time ago that
> transformer companies rated their transformers to 1000 hz.
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>
> Running a 10 step ladder multiplier, that would be 5 steps negative
> and 5 step positive I should get around 3250VDC. On a half wave

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> multiplier I figure the last step being hit by 200 hz pulses at each
> end of the ladder.
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> with a autoformer configuration getting more VDC per step and going
> with 6 steps, 3 up and 3 down at 60hz? And no easy way of regulation?
>
> 73
> de N8ZU somewhere in 8 land




From -2118689301005715611
X-Google-Thread: fc2a5,d44fa8b910339194
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.204.143.143 with SMTP id v15mr2466451bku.8.1335842526718;
        Mon, 30 Apr 2012 20:22:06 -0700 (PDT)
Path: h15ni185070bkw.0!nntp.google.com!news1.google.com!postnews.google.com!
f5g2000vby.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2.5KVA transformer on square wave 1000hz mains
Date: Mon, 30 Apr 2012 20:15:01 -0700 (PDT)
Organization: http://groups.google.com
Lines: 38
Message-ID: <1cee8bcc-38b9-458e-b444-32caed165833@f5g2000vby.googlegroups.com>
References: <e9a085d0-b243-459d-9e19-2e502893d57a@2g2000yqk.googlegroups.com>
<WsydnfR1dZSahAHSnZ2dnUVZ_jWdnZ2d@giganews.com>
NNTP-Posting-Host: 66.87.0.70
Mime-Version: 1.0
X-Trace: posting.google.com 1335842526 28430 127.0.0.1 (1 May 2012 03:22:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 1 May 2012 03:22:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f5g2000vby.googlegroups.com; posting-host=66.87.0.70; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; Linux i686) AppleWebKit/535.19 (KHTML,
 like Gecko) Ubuntu/10.04 Chromium/18.0.1025.151 Chrome/18.0.1025.151 Safari/
535.19,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

On Apr 28, 12:21=A0pm, "Leland C. Scott" <kc8...@arrl.net> wrote:
> raypsi,
>
> Running the transformer at 1KHz will likely cook the core. The lamination=
s
> will be much too thick at that frequency to keep the eddy current heating=
 to
```

> an acceptable level. Generally the higher the frequency the thinner the
> laminations have to be. At some point the core material is changed to
> something else, like ferrite, to keep the heating down.
>
> 73's
>
> Leland C. Scott
> KC8LDO
>

Hey OM:

I've seen 400 Hz transformers from old air force airplanes it's true
the lamination's are thinner but the physical size per unit power is
1/6 that of a 60 hz transformer. To wit a 2.5 k VA transformer made
for 400 Hz would weigh in at about 6 pounds compared to my Hammond
Canadian made performer at 40 pounds.

Looks like I'm going to be switching 230 v Dc from 2 separate 115 vac
lines on the same side of the main 230 vac line. I'll keep the switch
speed down to 120 Hz Since I found a stacked doubler that gives a
quadruple output. Thus the output capacitor charges twice as fast over
a ladder style multiplier.

Though one fellow ham told me to just buy a 1.5 k VA isolation
transformer to convert 115 to 230 vac. He is a Canadian ham also since
I have a Canadian Transformer.

Thanks for the advise

73 OT
de N8ZU

```
From 3162873817203108023
X-Google-Thread: fc2a5,ad27de51c42ab7b0,start
X-Google-NewGroupId: yes
X-Google-Thread: 10e8ad,ad27de51c42ab7b0,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid8f86f75953,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.141.4 with SMTP id k4mr2499818bku.6.1335852004400;
        Mon, 30 Apr 2012 23:00:04 -0700 (PDT)
MIME-Version: 1.0
Path: h15ni185483bkw.0!nntp.google.com!news2.google.com!npeer02.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
nx02.iad01.newshosting.com!newshosting.com!news-out.readnews.com!
transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
```

Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1333260001@panix.com>
Followup-To: poster
Date: 1 May 2012 02:00:01 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Jun 2012 02:00:00 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1335852000@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1335852002 9531 166.84.1.2 (1 May 2012 06:00:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 1 May 2012 06:00:02 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
X-Received-Bytes: 3691

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. After a successful trial |
period (90 days, through early July 2009), we decided to adopt this |
change permanently. |

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From -4926783316982395006
X-Google-Thread: fc2a5,af29ef6fc56bd71b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.154.133 with SMTP id o5mr1621769bkw.0.1336370704672;
        Sun, 06 May 2012 23:05:04 -0700 (PDT)
MIME-Version: 1.0
Path: h15ni208122bkw.0!nntp.google.com!news2.google.com!
border1.nntp.dca.giganews.com!border4.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-out.readnews.com!news-
xxxfer.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1333778700@panix.com>
Followup-To: poster
Date: 7 May 2012 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Jun 2012 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1336370700@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1336370704 22510 166.84.1.2 (7 May 2012 06:05:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 7 May 2012 06:05:04 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
```

Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |
rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

From -2515854681995857832

```
X-Google-Thread: fc2a5,2339cb6c22e133e2,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.219.66 with SMTP id pm2mr287550pbc.8.1336663953267;
        Thu, 10 May 2012 08:32:33 -0700 (PDT)
Path: pr3ni10350pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
pr7g2000pbb.googlegroups.com!not-for-mail
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: BEST HOT VIDEO WATCH HERE MODLES HOT PHOTOS
Date: Thu, 10 May 2012 08:24:40 -0700 (PDT)
Organization: http://groups.google.com
Lines: 49
Message-ID: <62690c48-6bd2-4793-8636-9bc0e78cbcb6@pr7g2000pbb.googlegroups.com>
NNTP-Posting-Host: 117.199.251.49
Mime-Version: 1.0
X-Trace: posting.google.com 1336663953 4290 127.0.0.1 (10 May 2012 15:32:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 10 May 2012 15:32:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: pr7g2000pbb.googlegroups.com; posting-host=117.199.251.49;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

                           hot videos

 real kiss videos
http://videos2youth.blogspot.com/2011/11/real-kiss-videos.html
first night hot videos
http://videos2youth.blogspot.com/2011/11/first-night-hot-videos.html
mallu hot videos
http://videos2youth.blogspot.com/2011/11/mallu-hot-videos.html
indian bedroom hot
http://videos2youth.blogspot.com/2011/11/indian-bedroom-hot.html
romantic videos
http://videos2youth.blogspot.com/2011/11/romantic-videos.html




                  HOT PHOTOS
lip kiss photos
http://photostwo2u.blogspot.com/2010/09/photos.html
bikini photos
http://photostwo2u.blogspot.com/2010/09/photos-2.html
SEXY PHOTOS
http://photostwo2u.blogspot.com/2010/09/photos-3.html
indian hot photos
http://photostwo2u.blogspot.com
```

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

---

```
From 7353305846000511456
X-Google-Thread: fc2a5,ca8d1541899a7d7c,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.125.201 with SMTP id ms9mr4609841pbb.3.1336950260838;
        Sun, 13 May 2012 16:04:20 -0700 (PDT)
MIME-Version: 1.0
Path: pr3ni22715pbb.0!nntp.google.com!news1.google.com!news2.google.com!
newsfeed2.dallas1.level3.net!newsfeed3.dallas1.level3.net!news.level3.com!bloom-
beacon.mit.edu!ra.nrl.navy.mil!nntp.club.cc.cmu.edu!newsfeed.hal-mli.net!
feeder3.hal-mli.net!newsfeed.hal-mli.net!feeder1.hal-mli.net!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 13 May 2012 18:04:19 -0500
From: vu2nan <vu2nan.9f5f578@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: A salvaged RF Ammeter
Date: Sun, 13 May 2012 18:43:13 +0000
Message-ID: <vu2nan.9f5f578@radiobanter.com>
Organization: RadioBanter.com
Lines: 13
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-EOOv394OF2hshGzYA87xcvDSDJg3d1AgIoCpnSaCea1fjgp574feZtYUqP70zWy0L/
```

```
HgncpDxL3a2Wt!o8+fkLTe3CVPko/hsjemMSE/uzM/
u6WBEMELgbfPs2SYYxD4lnlhhrBhRaNF+zukv7c6aKkyBSnb!05Le
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 7
X-Original-Bytes: 1032


Please do click on the link below.

http://nandustips.blogspot.in/2012/05/salvaged-rf-ammeter.html

73

Nandu.




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vu2nan


From 4842439707498369365
X-Google-Thread: fc2a5,69c9a86061a19b8,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.238.67 with SMTP id vi3mr1453064pbc.6.1336985011889;
        Mon, 14 May 2012 01:43:31 -0700 (PDT)
Path: pr3ni24266pbb.0!nntp.google.com!news2.google.com!postnews.google.com!
t2g2000pbg.googlegroups.com!not-for-mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ACTRESS HOT ROMANTIC PHOTOS
Date: Mon, 14 May 2012 01:43:31 -0700 (PDT)
Organization: http://groups.google.com
Lines: 104
Message-ID: <e86c0e57-91f0-4e0b-9fdd-ec9cee1e3eec@t2g2000pbg.googlegroups.com>
NNTP-Posting-Host: 117.213.131.102
Mime-Version: 1.0
X-Trace: posting.google.com 1336985011 15490 127.0.0.1 (14 May 2012 08:43:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 14 May 2012 08:43:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t2g2000pbg.googlegroups.com; posting-host=117.213.131.102;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:12.0) Gecko/20100101 Firefox/
12.0,gzip(gfe)
```

Content-Type: text/plain; charset=ISO-8859-1

TOP DOT NET INTERVIEW QUESTIONS& STUDY MATERIAL
http://newdotnetinterviewquestions.blogspot.in/

TOP DATING TIPS TO ENCOURAGE WOMEN FOR DATING
http://datingsitesdatingtips.blogspot.in/

FOR LATEST MOVIE UPDATED LINKS
Midatha Telugu movie Hot Namitha Stills
http://actressgallery-kalyani.blogspot.com/2012/05/midatha-movie-stills.html
OKA COLLEGE LOVE STORY MOVIE STILLS
http://actressgallery-kalyani.blogspot.in/2012/05/oka-college-love-story-movie-stills.html
KATRINA KAIF LATEST UNSEENED PHOTOS
http://actressgallery-kalyani.blogspot.com/2012/05/katrina-kaif-latest-pics.html
TAMIL ACTRESS ARUNDHATI HOT STILLS
http://actressgallery-kalyani.blogspot.com/2012/05/arundhati-tamil-actress.html
THANDHAVAM MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2012/05/thandavam-movie-stills.html
KHO KHO LATEST MOVIE SPICY STILLS
http://actressgallery-kalyani.blogspot.com/2012/05/kho-kho-movie-stills.html
Oh My Love Movie Latest Photo Gallery
http://actressgallery-kalyani.blogspot.com/2012/04/oh-my-love-movie-stills.html
Oka Romantic Crime katha Movie stills
http://actressgallery-kalyani.blogspot.in/2012/04/oka-romantic-crime-katha-movie-stills.html
DARUVU MOVIE LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.com/2012/03/daruvu-movie-stills.html
Pavan Kalyan,Shruthi Hasan Gabbar Singh Movie Photos
http://actressgallery-kalyani.blogspot.in/2012/04/gabbar-singh-movie-stills.html
Good Morning Latest Movie Stills
http://actressgallery-kalyani.blogspot.com/2012/04/good-morning-movie-stills.html
EEGA MOVIE LATEST STILLS
http://actressgallery-kalyani.blogspot.com/2012/04/eega-movie-stills.html
Mem Vayasuku Vacham Latest Hot Stills
http://actressgallery-kalyani.blogspot.com/2012/04/mem-vayasuku-vacham-stills.html
DAMMU MOVIE LATEST STILLS
http://actressgallery-kalyani.blogspot.in/2012/04/dammu-movie-stills.html
Rajsekhar Mahankali Movie Stills
http://actressgallery-kalyani.blogspot.in/2012/03/mahankali-movie-stills.html
Mamata 100% Prema Movie Hot Stills
http://actressgallery-kalyani.blogspot.in/2012/03/mamata-100-prema-movie-stills.html
Raviteja Daruvu Movie Latest stills
http://actressgallery-kalyani.blogspot.in/2012/03/daruvu-movie-stills.html
NUVVA NENA MOVIE LATEST GALLERY
http://actressgallery-kalyani.blogspot.in/2012/03/nuvva-nena-movie-stills.html

Yadartha Prema Katha Movie Latest stills
http://actressgallery-kalyani.blogspot.in/2012/03/yadartha-prema-katha-movie-stills.html
RACHA MOVIE LATEST STILLS
http://actressgallery-kalyani.blogspot.com/2012/03/racha-movie-stills.html
KAJAL HOT IN BINAMI VELAKOTLU MOVIE
http://actressgallery-kalyani.blogspot.com/2012/03/binami-velakotlu-movie-stills.html
ADHINAYAKUDU MOVIE LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.in/2012/03/adhinayakudu-movie-stills.html
Bhale Tammudu Movie Hot Latest Stills
http://actressgallery-kalyani.blogspot.in/2012/03/bhale-thammudu-movie-stills.html
TAMANNA RAM Endukante Premante Movie Latest Stills
http://actressgallery-kalyani.blogspot.com/2012/03/endukante-premanta-movie-stills.html
LOVELY MOVIE LATEST ROMANTIC STILLS
http://actressgallery-kalyani.blogspot.in/2011/12/lovely-movie-stills.html
ILEANA LATEST HOT PHOTOSHOOT
http://actressgallery-kalyani.blogspot.in/2012/01/ileana-latest-stills.html
ACTREESS SUPRIYA SHAILJA LATEST STILLS
http://actressgallery-kalyani.blogspot.in/2012/02/supriya-shailja-stills.html
SHEELA LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.com/2012/01/sheela-latest-stills.html
KATRINA KAIF ITEM SONG STILLS
http://actressgallery-kalyani.blogspot.com/2012/01/katrina-kaif-item-song-stills.html
RITU KAUR LATEST PHOTO STILLS
http://actressgallery-kalyani.blogspot.com/2012/01/ritu-kaur-stills.html
SHRUTI HASSAN HOT IN 3 MOVIE
http://actressgallery-kalyani.blogspot.com/2011/11/shruti-hassan-in-3-movie.html
HOT KATRINA KAIF PHOTOS
http://actressgallery-kalyani.blogspot.com/2011/09/katrina-kaif.html

HOT LINKS FOR YOUTH ONLY
TRISHA LATEST HOT STILLS
http://actressgallery9.blogspot.in/2012/05/trisha.html
MONIKA LATEST HOT HD STLLS
http://actressgallery9.blogspot.in/2012/05/monika-stills.html
MALLIKA KAPOOR HOT SIZZLING STILLS
http://actressimages-9.blogspot.in/2012/05/mallika-kapoor.html
Richa Panai Stills
http://actressimages-9.blogspot.com/2012/04/richa-panai-stills.html
MADHAVI LATHA LATEST HOT STILLS
http://actressimages-9.blogspot.in/2012/04/madhavi-latha-stills.html
KRITI KHARBANDA HOT PHOTOSHOOT
http://actressimages-9.blogspot.in/2012/03/kriti-kharbanda.html
NEELAM UPADHYAY HOT PHOTOSHOOT
http://actressimages-9.blogspot.in/2012/03/neelam-upadhyay.html
SAMANTHA LATEST HOT ROMANTIC STILLS
http://actressimages-9.blogspot.in/2012/03/samantha-latest-stills.html
NAYANTHARA HOT WALLPAPERS
http://actressimages-9.blogspot.in/2012/01/nayanthara.html

ANU SMRUTHI LATEST HOT STILLS
http://actressimages-9.blogspot.in/2012/02/anu-smirthi-stills.html
AISHWARYA RAI LATEST HOT PICS
http://actressimages-9.blogspot.in/2012/01/aishwarya-rai.html

```
From -2800056468566489504
X-Google-Thread: 241b302a50,ca8d1541899a7d7c,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.157.134 with SMTP id b6mr1397618bkx.5.1337339096764;
        Fri, 18 May 2012 04:04:56 -0700 (PDT)
MIME-Version: 1.0
Path: e27ni8957bkw.0!nntp.google.com!news1.google.com!
newsfeed2.dallas1.level3.net!news.level3.com!bloom-beacon.mit.edu!ra.nrl.navy.mil!
nntp.club.cc.cmu.edu!feeder.erje.net!goblin1!goblin2!goblin.stu.neva.ru!xlned.com!
feeder7.xlned.com!news2.euro.net!82.197.223.103.MISMATCH!
feeder3.cambriumusenet.nl!feed.tweaknews.nl!209.197.12.242.MISMATCH!
nx01.iad01.newshosting.com!newshosting.com!216.196.98.144.MISMATCH!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 18 May 2012 06:03:32 -0500
From: vu2nan <vu2nan.9fbe438@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: A salvaged RF Ammeter
Date: Fri, 18 May 2012 05:41:01 +0000
Message-ID: <vu2nan.9fbe438@radiobanter.com>
Organization: RadioBanter.com
Lines: 13
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-eI7pADRPbZIiHqtDd7i6awJT6PyHopWJGLBB5Q5CaoObAJUBsjzUSinmBI8j3Lav/
K7E4wwu66akuou!
Sp6ys7grTbwBqGbghjW8eRWCt4nHJNgTZoAdMCjNHcmoMRZ37gEf2lE5nEqFUTxunO0eDH5B/VsL!hOcX
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 7
X-Original-Bytes: 1015
```

May be accessed at

http://nandustips.blogspot.in/2012/05/salvaged-rf-ammeter.html

73

Nandu

--
vu2nan

```
From 7704431874953833251
X-Google-Thread: 241b302a50,ca8d1541899a7d7c
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.149.210 with SMTP id u18mr1710457bkv.1.1337402437397;
        Fri, 18 May 2012 21:40:37 -0700 (PDT)
Path: e27ni14169bkw.0!nntp.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 18 May 2012 23:39:34 -0500
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <vu2nan.9f5f578@radiobanter.com>
In-Reply-To: <vu2nan.9f5f578@radiobanter.com>
Subject: Re: A salvaged RF Ammeter
Date: Fri, 18 May 2012 21:39:29 -0700
MIME-Version: 1.0
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18463
Message-ID: <qdqdnXkBiPWbuSrSnZ2dnUVZ5gydnZ2d@giganews.com>
Lines: 14
X-Usenet-Provider: http://www.giganews.com
X-Trace:
sv3-5C5JbylKBBzue4F4xSNQKmKbTeRl59eDMLezH9G7CCnW4mqsQIexPVxugRHNme+s0jD05BRa9aECjR
d!kpCE0PIV3Q78vek/rQDfDTr41+8yXnWKN/9M67dORMU65h25e0n2RGbdx+jZI/a7tqSp+VcW
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1825
Content-Type: text/plain;
     format=flowed;
     charset="Windows-1252";
     reply-type=original
Content-Transfer-Encoding: 7bit
```

Nandu, why not just leave the new instrument and the commercial RF ammeter connected in series, and then adjust the power level (by detuning) of the power source (transmitter) and make a calibration table by comparing known current to that which you are reading on dial of new instrument?

Some of us "old school" would make a new instrument dial by disassembling the instrument, and reversing the dial plate (flipping it over).
or creating a new paper dial plate with a computer, and glueing it over the old one.

Good luck,
Lynn, W7LTQ since December 1948

```
From 6407380782609865 77
X-Google-Thread: 241b302a50,ca8d1541899a7d7c
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.205.122.65 with SMTP id gf1mr1791677bkc.2.1337425496452;
        Sat, 19 May 2012 04:04:56 -0700 (PDT)
MIME-Version: 1.0
Path: e27ni16072bkw.0!nntp.google.com!news1.google.com!news2.google.com!
newsfeed2.dallas1.level3.net!news.level3.com!bloom-beacon.mit.edu!ra.nrl.navy.mil!
nntp.club.cc.cmu.edu!newsfeed.hal-mli.net!feeder3.hal-mli.net!newsfeed.hal-
mli.net!feeder1.hal-mli.net!border3.nntp.dca.giganews.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 19 May 2012 06:03:41 -0500
From: vu2nan <vu2nan.9fd35b8@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: A salvaged RF Ammeter
Date: Sat, 19 May 2012 07:19:43 +0000
Message-ID: <vu2nan.9fd35b8@radiobanter.com>
Organization: RadioBanter.com
References: <vu2nan.9f5f578@radiobanter.com>
<qdqdnXkBiPWbuSrSnZ2dnUVZ5gydnZ2d@giganews.com>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-2Qyu22wgQCtztz0o7otowOAihDbxOwciVTKjxJ6AZFXhJD+adeaoA0Md/
HqE6M0IMdhnI+xusBtziF0!
N8Dsa03HtV2zBock+9CSSsqvtYZplXNy9ZWJ4dK6eueWYyDdMRgk5Wr3oX1IFgwGn7NDSExpDTeP!v1cU
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 11
X-Original-Bytes: 1434
```

coffelt2;790888 Wrote:

> Nandu, why not just leave the new instrument and the commercial RF
> ammeter ....dial plate with a computer, and glueing it over the

> old one.
> Good luck,
> Lynn, W7LTQ since December 1948

Hi Old Chief Lynn,

Many thanks for your suggestions. Yes, I should do it one of these days.
The existing dial is well suited for marking with a fine 'permanent
marker' pen.

73

Nandu.

--
vu2nan

```
From -4386734998871043962
X-Google-Thread: fc2a5,c4c6aefaf27ca4d5,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.234.38 with SMTP id ub6mr5954432pbc.2.1338188650089;
        Mon, 28 May 2012 00:04:10 -0700 (PDT)
MIME-Version: 1.0
Path: pr3ni57650pbb.0!nntp.google.com!news1.google.com!goblin3!goblin.stu.neva.ru!
pit-in1.telstra.net!news.telstra.net!61.9.128.156.MISMATCH!
viwinnwcl01.internal.bigpond.com!viwinnwfe02.internal.bigpond.com.POSTED!7564ea0f!
not-for-mail
From: "Steve Kelly" <stephen.kelly2@bigpond.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Alinco dx70th - and transverter.Please help
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
Message-ID: <JrFwr.7387$v14.1053@viwinnwfe02.internal.bigpond.com>
Date: Sun, 27 May 2012 17:58:19 +1000
NNTP-Posting-Host: 123.211.136.105
X-Complaints-To: abuse@bigpond.net.au
X-Trace: viwinnwfe02.internal.bigpond.com 1338188649 123.211.136.105 (Mon, 28 May
2012 17:04:09 EST)
NNTP-Posting-Date: Mon, 28 May 2012 17:04:09 EST
Organization: BigPond
```

Hi there,
I am having troubles with the Alinco trying to find a voltage that goes high

or low on transmit.This is to switch the transverter into transmit mode.I have looked at the circuit diagram but have had no success.Has anyone been down this path and if they did how was it done?Any replies appreciated.
Steve VK4ADA

```
From 8270376197689280456
X-Google-Thread: fc2a5,4368f4b7082f9549,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.234.38 with SMTP id ub6mr253786pbc.2.1338427046574;
        Wed, 30 May 2012 18:17:26 -0700 (PDT)
Path: l9ni1878pbj.0!nntp.google.com!news1.google.com!postnews.google.com!
x6g2000pbh.googlegroups.com!not-for-mail
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT 2 HOT SEXY BEST VIDEOS PHOTOS TOOOO U
Date: Wed, 30 May 2012 18:17:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 50
Message-ID: <e5373b22-0c8b-46cc-a691-73630fd9274f@x6g2000pbh.googlegroups.com>
NNTP-Posting-Host: 117.199.245.86
Mime-Version: 1.0
X-Trace: posting.google.com 1338427046 13707 127.0.0.1 (31 May 2012 01:17:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 31 May 2012 01:17:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x6g2000pbh.googlegroups.com; posting-host=117.199.245.86; posting-
account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.in/2011/06/real-kiss-hot-videos.html

HOT HOT LIP KISS

http://hotvideosfreesee.blogspot.in/2010/06/hot-for-youth.html
SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-101.html
YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.in/2010/06/supr-hot-never-seen.html
SUPER HOT NEVER SEEN
http://hotvideosfreesee.blogspot.in/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/kajal-best-lip-kiss.html

for mopre hot videos
http://allvideosforyouth.blogspot.in/2010/08/super-hot-lip-kiss.html

jobs
http://alljobsaywhere.blogspot.in/

mobile

mobile games free download
http://mobileallinforation.blogspot.in/2010/08/mobile-games-free-download.html

mobile ringtones free download
http://mobileallinforation.blogspot.in/2010/08/mobile-ringtones-free-download.html

```
From 8424702669037282532
X-Google-Thread: fcc6e,73346c2b0727dd7c,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,73346c2b0727dd7c,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,73346c2b0727dd7c,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,73346c2b0727dd7c,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,73346c2b0727dd7c,start
X-Google-NewGroupId: yes
X-Google-Thread: 10e8ad,73346c2b0727dd7c,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,73346c2b0727dd7c,start
X-Google-NewGroupId: yes
X-Google-Attributes:
```

```
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gide721ae2bf6,gid8f86f7595
3,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.201.132 with SMTP id ka4mr2192943pbc.8.1338530405285;
        Thu, 31 May 2012 23:00:05 -0700 (PDT)
MIME-Version: 1.0
Path: l9ni6413pbj.0!nntp.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!novia!news.glorb.com!news-
out.readnews.com!transit4.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1335852000@panix.com>
Followup-To: poster
Date: 1 Jun 2012 02:00:03 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 04 Jul 2012 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1338530401@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1338530403 9000 166.84.1.2 (1 Jun 2012 06:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 1 Jun 2012 06:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader
opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/
d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider       |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup.  After a successful trial         |
period (90 days, through early July 2009), we decided to adopt this           |
```

change permanently. |

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From -5456613901413708642
X-Google-Thread: fc2a5,573623d23d8ad1d7,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.241.7 with SMTP id we7mr4766906pbc.4.1338600270974;
        Fri, 01 Jun 2012 18:24:30 -0700 (PDT)
Path: l9ni9429pbj.0!nntp.google.com!news2.google.com!postnews.google.com!
oo8g2000pbc.googlegroups.com!not-for-mail
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 0
Date: Fri, 1 Jun 2012 18:22:43 -0700 (PDT)
Organization: http://groups.google.com
Lines: 35
Message-ID: <55bedc7f-d257-4df2-acc2-589119f85356@oo8g2000pbc.googlegroups.com>
NNTP-Posting-Host: 117.199.240.237
Mime-Version: 1.0
X-Trace: posting.google.com 1338600270 21777 127.0.0.1 (2 Jun 2012 01:24:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 2 Jun 2012 01:24:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
```

```
Injection-Info: oo8g2000pbc.googlegroups.com; posting-host=117.199.240.237;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1



      A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.in/



             ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.in/2010/09/hot-lip-kiss-135.html

               ALL  JOBS   SITES FREE SEE

http://jobstwo.blogspot.in/




HOT VIDEOS

http://hotvideotoou.blogspot.in/2011/01/kiss-videos.html




hot lip kiss
http://hotvidos.blogspot.in/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.in/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.in/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.in/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.in/2010/07/tamil-hot-videos.html





From -1155135380899560270
X-Google-Thread: fc2a5,90eb06eda2682d86,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.241.7 with SMTP id we7mr7302863pbc.4.1338690602313;
        Sat, 02 Jun 2012 19:30:02 -0700 (PDT)
Path: l9ni13359pbj.0!nntp.google.com!news2.google.com!npeer02.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!
```

```
newsfeed-3001.bay.webtv.net!newssorter-3001.bay.webtv.net!not-for-mail
From: ogrowup@webtv.net (Padraigh ProAmerica)
Newsgroups: rec.radio.amateur.homebrew
Subject: Heathkit data updates?
Date: Sat, 2 Jun 2012 22:25:39 -0400
Organization: WebTV Subscriber
Lines: 12
Message-ID: <9821-4FCACB23-314@storefull-3171.bay.webtv.net>
NNTP-Posting-Host: localhost.webtv.net
Mime-Version: 1.0 (WebTV)
X-WebTV-Signature: 1
     ETAsAhQf/b04N0vjniEgo2kGBaBrLSnZ5wIUXZEPczTDG75UyHxwFs8MJ7PMFIQ=
X-Received-Bytes: 1052
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
Content-Disposition: Inline
```

Built a Heathkit tube tester in 1975; and had reason to use it the other day.

Just wondering if there is any source for updated tube data since then?

--
"The whole aim of practical politics is to keep the populace alarmed- and hence clamorous to be led to safety- by menacing it with an endless series of hobgoblins, all of them imaginary. "--

H.L. Mencken

```
From 621529103880605426
X-Google-Thread: fc2a5,90eb06eda2682d86
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.201.132 with SMTP id ka4mr8421355pbc.8.1338740918712;
        Sun, 03 Jun 2012 09:28:38 -0700 (PDT)
Path: l9ni15534pbj.0!nntp.google.com!news1.google.com!news.glorb.com!news-
xfer.nntp.sonic.net!news.kjsl.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit data updates?
Date: Sun, 3 Jun 2012 12:30:01 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 15
Sender: et472@72.0.192.107
Message-ID: <Pine.LNX.4.64.1206031227360.19620@darkstar.example.net>
References: <9821-4FCACB23-314@storefull-3171.bay.webtv.net>
NNTP-Posting-Host: 72.0.192.107
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1338740917 25278 72.0.192.107 (3 Jun 2012 16:28:37 GMT)
X-Complaints-To: complaints@ncf.ca
```

NNTP-Posting-Date: 3 Jun 2012 16:28:37 GMT
In-Reply-To: <9821-4FCACB23-314@storefull-3171.bay.webtv.net>
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

On Sat, 2 Jun 2012, Padraigh ProAmerica wrote:

> Built a Heathkit tube tester in 1975; and had reason to use it the other
> day.
>
> Just wondering if there is any source for updated tube data since then?
>

How many new tubes were released after 1975? Power tubes yes, but they
likely didn't fit the tester anyway. It was past the time of Nuvistors
and Compactrons, and the 12V tubes for use in cars. Yes, people still used
tubes in 1975, but they were fading (there were already articles about
solid state replacements for tubes by 1975) and not much was being made
with tubes.

Michael VE2BVW

From 1230061858284224473
X-Google-Thread: fc2a5,90eb06eda2682d86
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.223.40 with SMTP id qr8mr8878437pbc.0.1338761541636;
Sun, 03 Jun 2012 15:12:21 -0700 (PDT)
Path: l9ni16434pbj.0!nntp.google.com!news1.google.com!news2.google.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 03 Jun 2012 17:12:21 -0500
Date: Sun, 03 Jun 2012 22:12:21 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows NT 5.0; rv:12.0) Gecko/20120428 Thunderbird/
12.0.1
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit data updates?
References: <9821-4FCACB23-314@storefull-3171.bay.webtv.net>
<Pine.LNX.4.64.1206031227360.19620@darkstar.example.net>
In-Reply-To: <Pine.LNX.4.64.1206031227360.19620@darkstar.example.net>
Message-ID: <_KCdnWY8fuDYfFbSnZ2dnUVZ_rmdnZ2d@bright.net>
Lines: 19
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
JNSd2A4xtUtcR+OA7VkfkWUpMYV+x9+iptKWyuRblqz9+QHSZg6wKuK9sMBARccPMtw+ZKZuVKUMOCi!
78DED2kAXUDWuHsdHMfWM7s5eR1mBOajgRsRAxgP/xxHJmEowWlknmit0YOfgtZZ7KmIRcQpjouD!
Yk293yBPvQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly

```
X-Postfilter: 1.3.40
X-Original-Bytes: 1974
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 6-3-2012 16:30, Michael Black wrote:

> How many new tubes were released after 1975? Power tubes yes, but they
> likely didn't fit the tester anyway. It was past the time of Nuvistors
> and Compactrons, and the 12V tubes for use in cars. Yes, people still
> used tubes in 1975, but they were fading (there were already articles
> about solid state replacements for tubes by 1975) and not much was being
> made with tubes.
>
> Michael VE2BVW

Funny this topic just popped up. I mentioned to one of our younger techs at work (30 years old) that I was thinking of building a tube radio receiver from scratch just a couple days ago. Maybe for the FM broadcast band or maybe some amateur band and set it on the shelf over my bench at work. :)

N0EDV

```
From 5788138225031723244
X-Google-Thread: fc2a5,90eb06eda2682d86
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.201.132 with SMTP id ka4mr9187638pbc.8.1338777004476;
        Sun, 03 Jun 2012 19:30:04 -0700 (PDT)
Path: l9ni17117pbj.0!nntp.google.com!news2.google.com!news1.google.com!
news.glorb.com!newsfeed-3001.bay.webtv.net!newssorter-3001.bay.webtv.net!not-for-
mail
From: ogrowup@webtv.net (Padraigh ProAmerica)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit data updates?
Date: Sun, 3 Jun 2012 22:28:52 -0400
Organization: WebTV Subscriber
Lines: 15
Message-ID: <14596-4FCC1D64-108@storefull-3171.bay.webtv.net>
References: <_KCdnWY8fuDYfFbSnZ2dnUVZ_rmdnZ2d@bright.net>
NNTP-Posting-Host: localhost.webtv.net
Mime-Version: 1.0 (WebTV)
X-WebTV-Signature: 1
     ETAsAhRjhwqkGo6THE19kU0yKkl6444OTgIUMFnFs9Wtk+cpARLer/ZUi+r6eGw=
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
Content-Disposition: Inline
```

I have a 1975 version of the "RCA Receiving Tube Manual"; anything not listed on the Heathkit list can probably be figured out from this.

BTW: there's a circuit included in the back for a FM tuner utilizing 3
tubes (two 6CW4 nuvistors and a 6KE8).

Have fun!

--
"The whole aim of practical politics is to keep the populace alarmed-
and hence clamorous to be led to safety- by menacing it with an endless
series of hobgoblins, all of them imaginary. "--

H.L. Mencken

```
From -5239664853300238272
X-Google-Thread: fc2a5,76164431f330850b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.223.40 with SMTP id qr8mr10289135pbc.0.1338807830528;
        Mon, 04 Jun 2012 04:03:50 -0700 (PDT)
MIME-Version: 1.0
Path: l9ni19262pbj.0!nntp.google.com!news1.google.com!goblin3!gin-ad1-
unet1.teleglobe.net!goblin1!goblin2!goblin.stu.neva.ru!feeder1.cambriumusenet.nl!
feeder2.cambriumusenet.nl!feed.tweaknews.nl!209.197.12.246.MISMATCH!
nx02.iad01.newshosting.com!newshosting.com!216.196.98.146.MISMATCH!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 04 Jun 2012 06:03:36 -0500
From: vu2nan <vu2nan.a124db9@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: A homebrew RF Ammeter (edited)
Date: Mon, 4 Jun 2012 06:17:35 +0000
Message-ID: <vu2nan.a124db9@radiobanter.com>
Organization: RadioBanter.com
Lines: 13
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Q0wo5ZhGDhpteLbcB8Yr/
P4DFjEoSiQ0u8h483LNJFOjfNxrPEVnDCG2s0RndGWheR39os8x46eLsM0!
mFP3bSt2wx8hDWWcJKbrjM16jOaOD0zYh97w8bAMwmxeUzH/WIAdcUx7QazINfXwz4tC34RbdBRK!R9Ev
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 7
X-Original-Bytes: 1025
```

May be accessed at:

http://nandustips.blogspot.in/2011/07/homebrew-rf-ammeter.html

73

Nandu.

--
vu2nan

```
From 1167032306454279353
X-Google-Thread: fc2a5,91e112ed5399473e,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.205.122.65 with SMTP id gf1mr98405bkc.2.1339040079124;
        Wed, 06 Jun 2012 20:34:39 -0700 (PDT)
Path: e27ni22282bkw.0!nntp.google.com!news1.google.com!news.glorb.com!news.alt.net
From: justme <jbleaux@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: I WILL BUY YOUR BROKEN/TRASHED ICOM H.F. RADIO
Date: Wed, 06 Jun 2012 22:34:21 -0500
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 18
Message-ID: <i880t75fkitao9eifntfn7miqd6pfd6bqk@4ax.com>
Mime-Version: 1.0
X-Newsreader: Forte Agent 6.00/32.1186 trialware
X-Antivirus: avast! (VPS 120606-2, 06/06/2012), Outbound message
X-Antivirus-Status: Clean
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
```

I WILL BUY YOUR BROKEN/TRASHED ICOM H.F. RADIO

I WILL BUY YOUR BROKEN/TRASHED ICOM H.F. RADIO

Hi,

I want to get back on the air by seeing if I can fix a trashed or non-working Icom h.f. radio.

Has to be cheap.

Thank you.

W5BRY

EMAIL:

jbleaux@gmail.com

```
From 7032032190012978020
X-Google-Thread: 11480d,720af804959b5e9f,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,720af804959b5e9f,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid7221ecd0f7,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.157.134 with SMTP id b6mr164289bkx.5.1339049104217;
        Wed, 06 Jun 2012 23:05:04 -0700 (PDT)
MIME-Version: 1.0
Path: e27ni22675bkw.0!nntp.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!novia!news-out.readnews.com!news-
xxxfer.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1336370700@panix.com>
Followup-To: poster
Date: 7 Jun 2012 02:05:02 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 10 Jul 2012 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1339049101@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1339049103 12482 166.84.1.2 (7 Jun 2012 06:05:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 7 Jun 2012 06:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/
```

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information

```
bulletin formerly posted to rec.radio.amateur.* (and currently archived
at http://www.faqs.org/faqs/radio/personal-intro/ ):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article       |
is that it does not mention newer amateur radio newsgroups created since      |
it was written, including:                                                    |

 rec.radio.amateur.antenna                                                    |
 rec.radio.amateur.boatanchors                                                |
 rec.radio.amateur.dx                                                         |
 rec.radio.amateur.equipment                                                  |
 rec.radio.amateur.homebrew                                                   |
 rec.radio.amateur.moderated                                                  |
 rec.radio.amateur.space                                                      |

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions.  We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.
```

```
From 8436327912695869322
X-Google-Thread: fc2a5,91e112ed5399473e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.219.170 with SMTP id pp10mr3280994pbc.1.1339088622167;
        Thu, 07 Jun 2012 10:03:42 -0700 (PDT)
MIME-Version: 1.0
Path: l9ni21626pbj.0!nntp.google.com!news2.google.com!news1.google.com!goblin3!
gin-ad1-unet1.teleglobe.net!goblin1!goblin2!goblin.stu.neva.ru!feeder.erje.net!
news2.arglkargh.de!news.glorb.com!npeer02.iad.highwinds-media.com!news.highwinds-
media.com!feed-me.highwinds-media.com!border3.nntp.dca.giganews.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
```

NNTP-Posting-Date: Thu, 07 Jun 2012 12:03:40 -0500
From: Channel Jumper <Channel.Jumper.a169698@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I WILL BUY YOUR BROKEN/TRASHED ICOM H.F. RADIO
Date: Thu, 7 Jun 2012 14:18:23 +0000
Message-ID: <Channel.Jumper.a169698@radiobanter.com>
Organization: RadioBanter.com
References: <i880t75fkitao9eifntfn7miqd6pfd6bqk@4ax.com>
Lines: 32
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-UPEsI6rL4JEG5C0q+aIyuW8AIkE6OmDALMF+e/
G+l4oYJj0LM5AgKtv5X0NpBRyQDykh2pKdxAEXwuI!
wMXwx58RIOeePGDU1lmKrWH73iCBhNqFoRa0PrJMEuRlVf8dfss0oLDxbpI66S3aV+yUu0cx/ggl!GgqP/
OQupFAD5DU=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 25
X-Original-Bytes: 1416
X-Received-Bytes: 1579

justme;791654 Wrote:
> I WILL BUY YOUR BROKEN/TRASHED ICOM H.F. RADIO
>
> I WILL BUY YOUR BROKEN/TRASHED ICOM H.F. RADIO
>
>
> Hi,
>
> I want to get back on the air by seeing if I can fix a trashed or
> non-working Icom h.f. radio.
>
> Has to be cheap.
>
> Thank you.
>
> W5BRY
>
> EMAIL:
> jbleaux@gmail.com

ICOM?

I
Can
Only
Monitor

```
--
Channel Jumper


From 7842644623436704640
X-Google-Thread: fc2a5,91e112ed5399473e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.152.217 with SMTP id h25mr2022378bkw.3.1339204231849;
        Fri, 08 Jun 2012 18:10:31 -0700 (PDT)
Path: e27ni29347bkw.0!nntp.google.com!news2.google.com!news1.google.com!
npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!spln!extra.newsguy.com!newsp.newsguy.com!news4
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I WILL BUY YOUR BROKEN/TRASHED ICOM H.F. RADIO
Date: Fri, 08 Jun 2012 20:09:14 -0500
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 35
Message-ID: <jqu7o802fld@news4.newsguy.com>
References: <i880t75fkitao9eifntfn7miqd6pfd6bqk@4ax.com>
NNTP-Posting-Host: pb831dd67189230b1d016d18a001808c49a3cf1e052af038f.newsdawg.com
Mime-Version: 1.0
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
In-Reply-To: <i880t75fkitao9eifntfn7miqd6pfd6bqk@4ax.com>
X-Antivirus: avast! (VPS 120608-1, 06/08/2012), Outbound message
X-Antivirus-Status: Clean
X-Received-Bytes: 1762
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

justme wrote:
> I WILL BUY YOUR BROKEN/TRASHED ICOM H.F. RADIO
>
> I WILL BUY YOUR BROKEN/TRASHED ICOM H.F. RADIO
>
>
> Hi,
>
> I want to get back on the air by seeing if I can fix a trashed or
> non-working Icom h.f. radio.
>
> Has to be cheap.
>
> Thank you.
>
> W5BRY
>
> EMAIL:
> jbleaux@gmail.com
```

Good luck! I had a 745 until the late 90s. I loved that radio. Wore the heck out of it but it reached the point to where it was like an old car. Always needed some tinkering.

I live in the Caribbean so the environment was a big factor. Cleaning cards and sockets and plugs became routine every time I wanted to use it. No major failures (it got new finals and a new ROM board in the early 90s).

Wish I could get another new one like it these days!

I was surprised to get $180 as-is out of it on ebay with a pockmarked front panel.

-Bill

```
From -3614796419745617388
X-Google-Thread: fc2a5,91e112ed5399473e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.191.225 with SMTP id hb1mr4382758pbc.5.1339302474475;
        Sat, 09 Jun 2012 21:27:54 -0700 (PDT)
Path: l9ni36107pbj.0!nntp.google.com!news2.google.com!npeer02.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!news.alt.net
From: justme <jbleaux@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I WILL BUY YOUR BROKEN/TRASHED ICOM H.F. RADIO
Date: Sat, 09 Jun 2012 23:27:31 -0500
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 44
Message-ID: <nf88t7dj4q1n8tvr51h9qspp1bg7v3cv2n@4ax.com>
References: <i880t75fkitao9eifntfn7miqd6pfd6bqk@4ax.com>
<jqu7o802fld@news4.newsguy.com>
Mime-Version: 1.0
X-Newsreader: Forte Agent 6.00/32.1186 trialware
X-Antivirus: avast! (VPS 120609-1, 06/09/2012), Outbound message
X-Antivirus-Status: Clean
X-Received-Bytes: 1759
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
```

Hey, Bill.

Where in the Caribbean are you? My wife is from Antigua. W.I.

On Fri, 08 Jun 2012 20:09:14 -0500, Bill M <radioexray@geeeemail.com>
wrote:

>justme wrote:

```
>> I WILL BUY YOUR BROKEN/TRASHED ICOM H.F. RADIO
>>
>> I WILL BUY YOUR BROKEN/TRASHED ICOM H.F. RADIO
>>
>>
>> Hi,
>>
>> I want to get back on the air by seeing if I can fix a trashed or
>> non-working Icom h.f. radio.
>>
>> Has to be cheap.
>>
>> Thank you.
>>
>> W5BRY
>>
>> EMAIL:
>> jbleaux@gmail.com
>
>Good luck!  I had a 745 until the late 90s.  I loved that radio.  Wore
>the heck out of it but it reached the point to where it was like an old
>car.  Always needed some tinkering.
>
>I live in the Caribbean so the environment was a big factor.  Cleaning
>cards and sockets and plugs became routine every time I wanted to use
>it.  No major failures (it got new finals and a new ROM board in the
>early 90s).
>
>Wish I could get another new one like it these days!
>
>I was surprised to get $180 as-is out of it on ebay with a pockmarked
>front panel.
>
>-Bill


From 6999961109449021390
X-Google-Thread: 241b302a50,837b11ae07527376,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.154.133 with SMTP id o5mr384260bkw.0.1339691309579;
        Thu, 14 Jun 2012 09:28:29 -0700 (PDT)
Path: e27ni47871bkw.0!nntp.google.com!news1.google.com!postnews.google.com!
qq9g2000pbb.googlegroups.com!not-for-mail
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT SEXY VIDEOS AND ROMANTIC BEAUTIFUL PHOTOS
Date: Mon, 11 Jun 2012 18:41:24 -0700 (PDT)
Organization: http://groups.google.com
Lines: 50
Message-ID: <e8fbc678-0d68-494d-a43c-9faa1dc6e829@qq9g2000pbb.googlegroups.com>
NNTP-Posting-Host: 117.199.247.9
```

```
Mime-Version: 1.0
X-Trace: posting.google.com 1339465370 13526 127.0.0.1 (12 Jun 2012 01:42:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 12 Jun 2012 01:42:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: qq9g2000pbb.googlegroups.com; posting-host=117.199.247.9; posting-
account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.in/2011/06/real-kiss-hot-videos.html

HOT HOT LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/hot-for-youth.html
SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-101.html
YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.in/2010/06/supr-hot-never-seen.html
SUPER HOT NEVER SEEN
http://hotvideosfreesee.blogspot.in/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/kajal-best-lip-kiss.html

for mopre hot videos
http://allvideosforyouth.blogspot.in/2010/08/super-hot-lip-kiss.html

jobs
http://alljobsaywhere.blogspot.in/

mobile

mobile games free download

http://mobileallinforation.blogspot.in/2010/08/mobile-games-free-download.html

mobile ringtones free download
http://mobileallinforation.blogspot.in/2010/08/mobile-ringtones-free-download.html

```
From -8478038508670830273
X-Google-Thread: 241b302a50,37a0f9d7288b7434,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Received: by 10.205.122.65 with SMTP id gf1mr397980bkc.2.1339692713273;
        Thu, 14 Jun 2012 09:51:53 -0700 (PDT)
Path: e27ni47948bkw.0!nntp.google.com!news1.google.com!postnews.google.com!
y41g2000yqm.googlegroups.com!not-for-mail
From: tbwork tbwork <tbwork008@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Updated List 2012 Solutions Manuals, Instructor Manuals & Test Banks
 Collection. Largest Collection Over The Net !!!
Date: Wed, 13 Jun 2012 01:17:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 4573
Message-ID: <a88f31a6-14e4-43ef-8246-497416efe059@y41g2000yqm.googlegroups.com>
NNTP-Posting-Host: 79.134.128.12
Mime-Version: 1.0
X-Trace: posting.google.com 1339575870 20808 127.0.0.1 (13 Jun 2012 08:24:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 13 Jun 2012 08:24:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y41g2000yqm.googlegroups.com; posting-host=79.134.128.12; posting-
account=po3qZAoAAABAoQrzdbrWgDYQi32q5YVf
User-Agent: G2/1.0
X-HTTP-Via: 1.1 localhost (squid/3.1.6)
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:12.0) Gecko/20100101 Firefox/
12.0,gzip(gfe)
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
```

Hello,
We would like to inform you that we have updated our list with the following new titles.
You can contact us directly at tbwork.ads(at)gmail.com .

=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D

2011 Federal Taxation, 5th Edition 2011, Pratt.Kulsrud, Instructor Manual & Solutions Manual

2011 Federal Taxation, 5th Edition 2011, Pratt.Kulsrud, Test Bank

21st Century Astronomy, 3rd Edition, Blumenthal.Hester.Kay.Smith.Voss, Instructor Manual

21st Century Astronomy, 3rd Edition, Blumenthal.Hester.Kay.Smith.Voss, Test Bank

A Concise Introduction to Logic, 11th Edition 2012, Hurley, Test Bank

A Framework for Human Resource Management, 6th Edition, Gary Dessler, Instructor Manual

A Framework for Human Resource Management, 6th Edition, Gary Dessler, Test Bank

A History of Modern Psychology, 10th Edition 2012, Schultz.Schultz, Instructor Manual

A History of Modern Psychology, 10th Edition 2012, Schultz.Schultz, Test Bank

A History of Modern Psychology, 9th Edition, Schultz.Schultz, Test Bank

A History of Narrative Film, 4th Edition, Cook, Test Bank

A History of Western Music, 8th Edition, Burkholder.Grout.Palisca, Instructor Manual

A History of Western Music, 8th Edition, Burkholder.Grout.Palisca, Test Bank

A Second Course in Statistics; Regression Analysis, 7th Edition 2012, Mendenhall.Sincich, Solutions Manual

Abnormal Psychology, 11th Edition, Kring.Neale.Johnson, Instructor Manual

Abnormal Psychology, 11th Edition, Kring.Neale.Johnson, Test Bank

Abnormal Psychology, 4th Edition, Seligman.Walker.Rosenhan, Test Bank

Abnormal Psychology; An Integrative Approach, 6th Edition 2012, Barlow.Durand, Instructor Manual

Abnormal Psychology; An Integrative Approach, 6th Edition 2012, Barlow.Durand, Test Bank

Abnormal Psychology; Perspectives with MyPsychKit_Fourth Edition, 4th Edition, Dozois.Firestone, Instructor Manual

Abnormal Psychology; Perspectives with MyPsychKit_Fourth Edition, 4th

Edition, Dozois.Firestone, Test Bank

Access to Health, 12th Edition 2012, Donatelle, Solutions Manual

Access to Health, 12th Edition 2012, Donatelle, Test Bank

Accounting Information Systems, 12th Edition 2012, Romney.Steinbart, Instructor Manual & Solutions Manual

Accounting Information Systems, 12th Edition 2012, Romney.Steinbart, Test Bank

Accounting Information Systems, 7th Edition, James Hall, Solutions Manual

Accounting Principles, 10th Edition, Weygandt.Kimmel.Kieso, Instructor Manual & Solutions Manual

Accounting Principles, 10th Edition, Weygandt.Kimmel.Kieso, Test Bank

Accounting Using Excelr for Success, 2nd Edition 2012, Reeve.Warren.Duchac, Solutions Manual

Accounting, 24th Edition 2012, Warren.Reeve.Duchac, Instructor Manual & Solutions Manual

Accounting, 24th Edition 2012, Warren.Reeve.Duchac, Test Bank

Accounting, 9th Edition 2012, Horngren.Harrison.Oliver, Instructor Manual & Solutions Manual

Accounting, 9th Edition 2012, Horngren.Harrison.Oliver, Test Bank

Adober Dreamweaverr CS5; Complete, 1st Edition 2011, Shelly.Wells, Instructor Manual & Solutions Manual

Adober Dreamweaverr CS5; Complete, 1st Edition 2011, Shelly.Wells, Test Bank

Adober Dreamweaverr CS5; Comprehensive, 1st Edition 2011, Shelly.Wells, Instructor Manual & Solutions Manual

Adober Dreamweaverr CS5; Comprehensive, 1st Edition 2011, Shelly.Wells, Test Bank

Adober Dreamweaverr CS5; Introductory, 1st Edition 2011, Shelly.Wells, Instructor Manual & Solutions Manual

Adober Dreamweaverr CS5; Introductory, 1st Edition 2011, Shelly.Wells, Test Bank

Adober Photoshopr CS5 Revealed, 1st Edition 2011, Elizabeth Eisner Reding, Instructor Manual & Solutions Manual

Adober Photoshopr CS5 Revealed, 1st Edition 2011, Elizabeth Eisner Reding, Test Bank

Advanced Accounting, 11th Edition 2012, Fischer.Taylor.Cheng, Solutions Manual

Advanced Accounting, 11th Edition 2012, Fischer.Taylor.Cheng, Test Bank

Advanced Financial Accounting, 9th Edition 2011, Baker.Christensen.Cottrell, Instructor Manual & Solutions Manual

Advanced Financial Accounting, 9th Edition 2011, Baker.Christensen.Cottrell, Test Bank

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From 7627836427396252648
X-Google-Thread: 241b302a50,91e112ed5399473e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
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news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-
me.highwinds-media.com!spln!extra.newsguy.com!newsp.newsguy.com!news6
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I WILL BUY YOUR BROKEN/TRASHED ICOM H.F. RADIO
Date: Wed, 13 Jun 2012 07:24:10 -0500
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 48
Message-ID: <jra0pd02873@news6.newsguy.com>
References: <i880t75fkitao9eifntfn7miqd6pfd6bqk@4ax.com>
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NNTP-Posting-Host: paac742a6485cb72a7e9618f5b6a429eda4e5219e85593e55.newsdawg.com
Mime-Version: 1.0
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
In-Reply-To: <nf88t7dj4q1n8tvr51h9qspp1bg7v3cv2n@4ax.com>
X-Antivirus: avast! (VPS 120613-0, 06/13/2012), Outbound message
X-Antivirus-Status: Clean
X-Received-Bytes: 2258
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
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The Icom survived Nevis, Anguilla, Dom. Rep and was finally retired in
Vieques Is., PR. I have lived in VQS for the past 14 yrs.
-Bill WX4A/KP4

justme wrote:
> Hey, Bill.
>
> Where in the Caribbean are you? My wife is from Antigua. W.I.
>
>
>
> On Fri, 08 Jun 2012 20:09:14 -0500, Bill M <radioexray@geeeemail.com>
> wrote:
>
>> justme wrote:
>>> I WILL BUY YOUR BROKEN/TRASHED ICOM H.F. RADIO
>>>

```
>>> I WILL BUY YOUR BROKEN/TRASHED ICOM H.F. RADIO
>>>
>>>
>>> Hi,
>>>
>>> I want to get back on the air by seeing if I can fix a trashed or
>>> non-working Icom h.f. radio.
>>>
>>> Has to be cheap.
>>>
>>> Thank you.
>>>
>>> W5BRY
>>>
>>> EMAIL:
>>> jbleaux@gmail.com
>> Good luck!  I had a 745 until the late 90s.  I loved that radio.  Wore
>> the heck out of it but it reached the point to where it was like an old
>> car.  Always needed some tinkering.
>>
>> I live in the Caribbean so the environment was a big factor.  Cleaning
>> cards and sockets and plugs became routine every time I wanted to use
>> it.  No major failures (it got new finals and a new ROM board in the
>> early 90s).
>>
>> Wish I could get another new one like it these days!
>>
>> I was surprised to get $180 as-is out of it on ebay with a pockmarked
>> front panel.
>>
>> -Bill


From -4032826481363257075
X-Google-Thread: 11480d,3149997ec72f0797,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,3149997ec72f0797,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,3149997ec72f0797,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,3149997ec72f0797,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid7221ecd0f7,gid241b302a50,gide721ae2bf6,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.228.227 with SMTP id sl3mr7187909pbc.5.1341122404856;
        Sat, 30 Jun 2012 23:00:04 -0700 (PDT)
MIME-Version: 1.0
Path: l9ni4973pbj.0!nntp.google.com!news1.google.com!
border1.nntp.dca.giganews.com!border4.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!news-out.readnews.com!
transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
```

Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1338530401@panix.com>
Followup-To: poster
Date: 1 Jul 2012 02:00:04 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Aug 2012 02:00:02 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1341122402@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1341122404 5369 166.84.1.2 (1 Jul 2012 06:00:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 1 Jul 2012 06:00:04 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader
opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. After a successful trial |
period (90 days, through early July 2009), we decided to adopt this |
change permanently. |

Approved rec.radio.amateur.* newsgroups are those that are currently
listed in the latest version of the "List of Big Eight Newsgroups" which
is crossposted monthly to news.announce.newgroups, news.groups, and
news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those
that have been created consistent with the suggestions in "So You Want
to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From 517030767120918019
X-Google-Thread: fc2a5,187d01cf0a3b96b4,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.196.232 with SMTP id ip8mr2476248pbc.6.1341311053459;
        Tue, 03 Jul 2012 03:24:13 -0700 (PDT)
Path: l9ni10736pbj.0!nntp.google.com!news2.google.com!postnews.google.com!
h20g2000yqe.googlegroups.com!not-for-mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: LATEST HOT PICS & VIDEOS & TOP INTERVIEW QUESTIONS
Date: Tue, 3 Jul 2012 03:22:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 63
Message-ID: <bb661a8c-7d58-43d7-9942-be2facdd98a0@h20g2000yqe.googlegroups.com>
NNTP-Posting-Host: 117.213.129.173
Mime-Version: 1.0
X-Trace: posting.google.com 1341311045 12709 127.0.0.1 (3 Jul 2012 10:24:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 3 Jul 2012 10:24:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h20g2000yqe.googlegroups.com; posting-host=117.213.129.173;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

ALL INTERVIEW QUESTIONS& STUDY MATERIAL
          http://newdotnetinterviewquestions.blogspot.in/

TOP DATING TIPS TO ENCOURAGE WOMEN FOR DATING
http://datingsitesdatingtips.blogspot.in/

FOR LATEST MOVIE UPDATED LINKS
HOT NEETHU CHANDRA LATEST PICS
http://actressgallery-kalyani.blogspot.in/2012/07/neetu-chandra-actress.html
ACTRESS AMRUTHA LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.in/2012/07/amrutha-actress.html
SELATHUPONNU MOVIE HOT PHOTOS
http://actressgallery-kalyani.blogspot.in/2012/07/selathuponnu-movie-stills.html
SULAGNA PANIGRAHI HOT PHOTOSHOOT
http://actressgallery-kalyani.blogspot.in/2012/06/sulagna-panigrahi-actress.html
RUBY PARIHAR HOT PHOTOSHOOT
http://actressgallery-kalyani.blogspot.com/2012/06/actress-ruby-parihar.html
ACTRESS YAMI GOUTHAM LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.com/2012/06/yami-gautam-actress.html
SRIMANARAYANA MOVIE HOT STILLS
http://actressgallery-kalyani.blogspot.in/2012/06/srimannarayana-movie-stills.html
KAJAL AGARWAL LATEST STILLS
http://actressgallery-kalyani.blogspot.in/2012/06/kajal-agarwal-latest-stills.html
SANA KHAN LATEST HOT PHOTO GALLERY
http://actressgallery-kalyani.blogspot.in/2012/06/sana-khan-latest-stills.html

FOR HOT ACTRESS PHOTO GALLERY
PRANEETHA HOT SPICY IMAGES
http://actressimages-9.blogspot.in/2012/06/praneetha-latest-stills.html
SHRUTHI HASSAN HALF SAREE STILLS
http://actressimages-9.blogspot.in/2012/05/shruti-hassan-half-saree-stills.html
TAMANNA HOT NAVEL PHOTOS
http://actressimages-9.blogspot.in/2012/05/tamanna-navel-photos.html
TRISHA LATEST HOT STILLS
http://actressgallery9.blogspot.in/2012/05/trisha.html
MONIKA LATEST HOT HD STLLS
http://actressgallery9.blogspot.in/2012/05/monika-stills.html

FOR ONLY HOT GUYS SEE THIS
BRINDA PAREKH HOT PHOTOS
http://hotactress-kalyani.blogspot.in/2012/07/brinda-parekh-hot.html
REEMA SINGH HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2012/06/reema-singh-hot.html
SADA LATEST HOT NAVEL STILLS
http://hotactress-kalyani.blogspot.in/2012/06/sada-hot-stills.html
RACHANA MOURYA HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2012/06/rachana-maurya-hot-pics.html
NATHALIA KAUR HOT LATEST STILLS
http://hotactress-kalyani.blogspot.in/2012/05/nathalia-kaur-hot.html
LAKSHMI RAI HOT SPICY STILLS
http://hotactress-kalyani.blogspot.in/2012/04/lakshmi-rai-hot.html
VIDISHA LATEST HOT PHOTO STILLS
http://hotactress-kalyani.blogspot.com/2012/05/vidisha-hot.html
MADHAVI LATHA HOT NAVEL SHOW

http://hotactress-kalyani.blogspot.com/2012/05/madhavi-latha-hot.html
TAMIL ACTRESS MEGHNA HOT
http://hotactress-kalyani.blogspot.com/2012/04/meghna-hot.html
LAKSHMI RAI HOT IMAGES
http://hotactress-kalyani.blogspot.com/2012/04/lakshmi-rai-hot.html
KIRAN RATHOD LATEST HOT PHOTOSHOOT
http://hotactress-kalyani.blogspot.in/2012/04/kiran-rathod-hot.html

```
From -3431932703705444625
X-Google-Thread: 11480d,8cd079830b2db18d,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,8cd079830b2db18d,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,8cd079830b2db18d,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid7221ecd0f7,gid241b302a50,gide721ae2bf6,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.190.104 with SMTP id gp8mr15437360pbc.4.1341641105627;
        Fri, 06 Jul 2012 23:05:05 -0700 (PDT)
MIME-Version: 1.0
Path: l9ni11086pbj.0!nntp.google.com!news2.google.com!
newsfeed2.dallas1.level3.net!news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1339049101@panix.com>
Followup-To: poster
Date: 7 Jul 2012 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Aug 2012 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1341641100@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1341641104 5496 166.84.1.2 (7 Jul 2012 06:05:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 7 Jul 2012 06:05:04 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
```

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

```
The rec.radio.info newsgroup, first established in 1993, has been
recently revived by an active moderation team.  We are currently seeking
suitable information, FAQ, and bulletin articles from the entire
rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our
newsgroup.

We are seeking a replacement maintainer for the following information
bulletin formerly posted to rec.radio.amateur.* (and currently archived
at http://www.faqs.org/faqs/radio/personal-intro/ ):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article       |
is that it does not mention newer amateur radio newsgroups created since      |
it was written, including:                                                    |

 rec.radio.amateur.antenna                                                    |
 rec.radio.amateur.boatanchors                                                |
 rec.radio.amateur.dx                                                         |
 rec.radio.amateur.equipment                                                  |
 rec.radio.amateur.homebrew                                                   |
 rec.radio.amateur.moderated                                                  |
 rec.radio.amateur.space                                                      |

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions.  We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.




From 1270350881478275889
X-Google-Thread: 241b302a50,8710ec5f34277c76,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.227.67 with SMTP id ry3mr2087903pbc.8.1342999823085;
        Sun, 22 Jul 2012 16:30:23 -0700 (PDT)
```

```
Path: p10ni34677856pbh.1!nntp.google.com!border1.nntp.dca.giganews.com!
border4.nntp.dca.giganews.com!Gin.tags.giganews.com!border2.nntp.dca.giganews.com!
nntp.giganews.com!ctu-peer!news.nctu.edu.tw!goblin1!goblin.stu.neva.ru!
feed.xsnews.nl!border-1.ams.xsnews.nl!xlned.com!feeder3.xlned.com!
feeder2.cambriumusenet.nl!feed.tweaknews.nl!209.197.12.242.MISMATCH!
nx01.iad01.newshosting.com!newshosting.com!69.16.185.11.MISMATCH!
npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!postnews.google.com!t1g2000pbl.googlegroups.com!not-for-mail
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT VIDEOS 2 HOT PEOPLE AND ACTRESSES NEVER SEEN PHOTOS
Date: Sun, 15 Jul 2012 18:34:11 -0700 (PDT)
Organization: http://groups.google.com
Lines: 50
Message-ID: <e5b747fb-894c-40a2-88df-5cb4c82b71ea@t1g2000pbl.googlegroups.com>
NNTP-Posting-Host: 117.199.244.163
Mime-Version: 1.0
X-Trace: posting.google.com 1342402451 17250 127.0.0.1 (16 Jul 2012 01:34:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 16 Jul 2012 01:34:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t1g2000pbl.googlegroups.com; posting-host=117.199.244.163;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
X-Received-Bytes: 2084
Bytes: 2458
Content-Type: text/plain; charset=ISO-8859-1
```

VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.in/2011/06/real-kiss-hot-videos.html

HOT HOT LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/hot-for-youth.html
SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-101.html
YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.in/2010/06/supr-hot-never-seen.html
SUPER HOT NEVER SEEN

```
http://hotvideosfreesee.blogspot.in/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/kajal-best-lip-kiss.html


for mopre hot videos
http://allvideosforyouth.blogspot.in/2010/08/super-hot-lip-kiss.html


     jobs
http://alljobsaywhere.blogspot.in/




              mobile

mobile games free download
http://mobileallinforation.blogspot.in/2010/08/mobile-games-free-download.html

mobile ringtones free download
http://mobileallinforation.blogspot.in/2010/08/mobile-ringtones-free-download.html







From 5724005935448001407
X-Google-Thread: fc2a5,fa988b15feb2c57f,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.219.170 with SMTP id pp10mr9326180pbc.1.1342432923576;
        Mon, 16 Jul 2012 03:02:03 -0700 (PDT)
Path: l9ni11994pbj.0!nntp.google.com!news2.google.com!postnews.google.com!
n9g2000pbi.googlegroups.com!not-for-mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT ROMANTIC STILLS & TOP INTERVIEW QUESTIONS
Date: Mon, 16 Jul 2012 03:02:03 -0700 (PDT)
Organization: http://groups.google.com
Lines: 25
Message-ID: <0d511102-4c6f-47d0-9b12-3a6f1fcb4f85@n9g2000pbi.googlegroups.com>
NNTP-Posting-Host: 117.199.252.42
Mime-Version: 1.0
X-Trace: posting.google.com 1342432923 2044 127.0.0.1 (16 Jul 2012 10:02:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 16 Jul 2012 10:02:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n9g2000pbi.googlegroups.com; posting-host=117.199.252.42; posting-
account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
```

```
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1



                                              FOR HOT ACTRESS PHOTOS
                                     http://southindianactressphotos9.blogspot.in/
                                      THEATRE LO MOVIE SPICY STILLS
http://southindianactressphotos9.blogspot.in/2012/07/theatre-lo-movie-stills.html
                                       THANDAVAM MOVIE STILLS
http://southindianactressphotos9.blogspot.in/2012/07/siva-thandavam-movie-
stills.html


                                     DESIGN PATTERN INTERVIEW
QUESTIONS
http://newdotnetinterviewquestions.blogspot.in/2012/05/design-patterns-interview-
questions.html
                                 JQUERY INTERVIEW QUESTIONS
http://newdotnetinterviewquestions.blogspot.in/2012/05/jquery-interview-
questions.html
                 WCF LATEST INTERVIEW QUESTIONS
http://newdotnetinterviewquestions.blogspot.in/2012/04/wcf-latest-interview-
questions.html
                SQL INTERVIEW QUESTIONS
http://newdotnetinterviewquestions.blogspot.in/2012/05/sql-interview-questions-
answers.html
             JAVA LATEST INTERVIEW QUESTIONS
http://newdotnetinterviewquestions.blogspot.in/2012/06/java-interview-
questions.html
                 EEE 2012 LATEST INTERVIEW QUESTIONS
http://newdotnetinterviewquestions.blogspot.in/2012/06/electrical-electronics-
engineeringeee.html
                     ELECTRONICS CIRCUITS SIMULATION
http://newdotnetinterviewquestions.blogspot.in/2012/04/electronic-circuits-
simulation-lab.html


From 9040256011104721335
X-Google-Thread: fc2a5,156d2388df974db,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.228.227 with SMTP id sl3mr20339pbc.5.1342654556511;
        Wed, 18 Jul 2012 16:35:56 -0700 (PDT)
Path: c10ni571pbw.0!nntp.google.com!news2.google.com!postnews.google.com!
d6g2000vbe.googlegroups.com!not-for-mail
From: ibm laptop <ibmlaptop2007@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: C&K/Microswitch switch lots, electronics parts, Soviet
 memorabilia, etc.
```

```
Date: Wed, 18 Jul 2012 16:18:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 10
Message-ID: <445e5311-eec3-40d7-b795-41edb4b75ae7@d6g2000vbe.googlegroups.com>
NNTP-Posting-Host: 174.20.156.85
Mime-Version: 1.0
X-Trace: posting.google.com 1342654556 26106 127.0.0.1 (18 Jul 2012 23:35:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 18 Jul 2012 23:35:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d6g2000vbe.googlegroups.com; posting-host=174.20.156.85; posting-
account=KmDxMAoAAAAWhZ5qFpyclCEHWWCMRjW-
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:13.0) Gecko/20100101 Firefox/
13.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

I've relisted several items; Several listings going on at the moment -
Bussmann 3AG
silver-plated fuse clips, sealed MicroSwitch brand toggle switches, 8
pc.
lots of C&K / Dialight / etc. electronics switches,  and some old
unrelated Soviet Union / CCCP memorabilia... see them all here;

http://www.ebay.com/sch/bobsx/m.html

Thanks for your time.


From 1232765823527144558
X-Google-Thread: 241b302a50,cd53fd65b98249be,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.182.77 with SMTP id cb13mr1490697qab.5.1343317712225;
        Thu, 26 Jul 2012 08:48:32 -0700 (PDT)
Received: by 10.66.82.2 with SMTP id e2mr1824775pay.40.1343317601821;
        Thu, 26 Jul 2012 08:46:41 -0700 (PDT)
Path: a15ni113198934qag.0!nntp.google.com!q21no8684692qas.0!news-out.google.com!
p10ni61181651pbh.1!nntp.google.com!npeer03.iad.highwinds-media.com!news.highwinds-
media.com!feed-me.highwinds-media.com!border3.nntp.dca.giganews.com!
border1.nntp.dca.giganews.com!border4.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!novia!volia.net!news2.volia.net!feed-
A.news.volia.net!border1.nntp.ams2.giganews.com!border3.nntp.ams.giganews.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!newsfeed.straub-nv.de!newsfeed.x-
privat.org!news.glorb.com!postnews.google.com!glegroupsg2000goo.googlegroups.com!
not-for-mail
From: JIMMIE <JIMMIEDEE123@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Antenna tuner control
Date: Sun, 22 Jul 2012 06:16:31 -0700 (PDT)
Organization: http://groups.google.com
Lines: 12
```

```
Message-ID: <97e9aa00-6fc5-4ce2-9f7e-d251eb4a75fc@googlegroups.com>
NNTP-Posting-Host: 155.178.4.19
Mime-Version: 1.0
X-Trace: posting.google.com 1342962991 30917 127.0.0.1 (22 Jul 2012 13:16:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 22 Jul 2012 13:16:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=155.178.4.19;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
Bytes: 1810
X-Original-Bytes: 1712
X-Received-Bytes: 1929
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

IVe never used stepper motors before and would like to use a couple to cont=
rol a simple L antenna tuner with just one roller inductor and one vacuum v=
ariable capacitor. My plan is to use a track ball I salvaged from an old ar=
cade game as the human interface. The outputs of the trackball assembly are=
 TTL level pulses when the ball is moved and a signal that is either high o=
r low depending on which direction the ball is moved. There are two sets of=
 these signals one each for X and Y axis. I was hoping someone could recomm=
end a controller motor combination preferably a controller that will interf=
ace directly with the TTL voltage.
TIA=20

Jimmie



From 5680886343906661378
X-Google-Thread: 241b302a50,90eb06eda2682d86
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.72.165 with SMTP id e5mr1640649pav.4.1343316705105;
        Thu, 26 Jul 2012 08:31:45 -0700 (PDT)
Path: b9ni61405076pbl.0!nntp.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
novia!news-peer1!btnet!zen.net.uk!hamilton.zen.co.uk!xlned.com!feeder5.xlned.com!
feed.xsnews.nl!border-1.ams.xsnews.nl!newsfeed.straub-nv.de!news.antakira.com!
news.enother.com!news.glorb.com!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit data updates?
Date: Sun, 22 Jul 2012 06:22:34 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <b354b7cb-40bd-4526-bf2c-a52073555737@googlegroups.com>
References: <9821-4FCACB23-314@storefull-3171.bay.webtv.net>
NNTP-Posting-Host: 155.178.6.19
```

```
Mime-Version: 1.0
X-Trace: posting.google.com 1342963732 5925 127.0.0.1 (22 Jul 2012 13:28:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 22 Jul 2012 13:28:52 +0000 (UTC)
In-Reply-To: <9821-4FCACB23-314@storefull-3171.bay.webtv.net>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=155.178.6.19;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
Bytes: 1725
X-Received-Bytes: 1773
Content-Type: text/plain; charset=ISO-8859-1

On Sunday, June 3, 2012 2:25:39 AM UTC, Padraigh ProAmerica wrote:
> Built a Heathkit tube tester in 1975; and had reason to use it the other
> day.
>
> Just wondering if there is any source for updated tube data since then?
>
> --
> &quot;The whole aim of practical politics is to keep the populace alarmed-
> and hence clamorous to be led to safety- by menacing it with an endless
> series of hobgoblins, all of them imaginary. &quot;--
>
> H.L. Mencken

1975 is probably fairly current as tube data goes.

Jimmie


From 876584282919131162
X-Google-Thread: 241b302a50,7ae95bf05befb859,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.100.137 with SMTP id y9mr992376qan.2.1343318122689;
        Thu, 26 Jul 2012 08:55:22 -0700 (PDT)
Received: by 10.66.72.165 with SMTP id e5mr1651401pav.4.1343318122557;
        Thu, 26 Jul 2012 08:55:22 -0700 (PDT)
MIME-Version: 1.0
Path: a15ni113198934qag.0!nntp.google.com!q21no9649077qas.0!news-out.google.com!
b9ni61875574pbl.0!nntp.google.com!npeer02.iad.highwinds-media.com!news.highwinds-
media.com!feed-me.highwinds-media.com!news-in-01.newsfeed.easynews.com!
easynews.com!easynews!novia!volia.net!news2.volia.net!feed-A.news.volia.net!
border1.nntp.ams2.giganews.com!border3.nntp.ams.giganews.com!
border1.nntp.ams.giganews.com!border4.nntp.ams.giganews.com!
border2.nntp.ams.giganews.com!feed.xsnews.nl!border-1.ams.xsnews.nl!
newsfeed.straub-nv.de!news.antakira.com!weretis.net!feeder4.news.weretis.net!
newsfeed.datemas.de!newsfeed.x-privat.org!newsfeed.sovam.com!mtu.ru!gin-ad1-
unet1.teleglobe.net!goblin1!goblin.stu.neva.ru!news.glorb.com!
border3.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
```

news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 22 Jul 2012 12:03:28 -0500
From: vu2nan <vu2nan.a51ea19@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Quartz Crystal Tester
Date: Sun, 22 Jul 2012 14:11:32 +0000
Message-ID: <vu2nan.a51ea19@radiobanter.com>
Organization: RadioBanter.com
Lines: 13
X-Usenet-Provider: http://www.giganews.com
X-Trace:
sv3-69e0QPs9WGv1o0hFt+H+LMHIC9SdbSQRB7jxWYGwKxm88y6P6YyKdfMSnnPl8NeCyC2rjh9Sg74ubu
I!f3mSM6ovNL+ekR3T3Lx3y//vwS7w7bkB+/M46af5hIbuLFjBCuNJjCBtLLYEBRabDgPwtLY+/g0W!
B7zE
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 7
X-Original-Bytes: 1019
Bytes: 1404
X-Received-Bytes: 1655

May be accessed at:

http://nandustips.blogspot.in/2012/07/quartz-crystal-tester.html

73

Nandu.

--
vu2nan

From 9210093674658499207
X-Google-Thread: 241b302a50,b8cd453f3c7126ce,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.100.137 with SMTP id y9mr988413qan.2.1343318003549;
Thu, 26 Jul 2012 08:53:23 -0700 (PDT)
Received: by 10.66.74.40 with SMTP id q8mr1656183pav.19.1343318003449;
Thu, 26 Jul 2012 08:53:23 -0700 (PDT)
Path: a15ni113198934qag.0!nntp.google.com!q21no9388593qas.0!news-out.google.com!
b9ni61666166pbl.0!nntp.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!border3.nntp.dca.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!novia!news-peer1!btnet!zen.net.uk!

```
hamilton.zen.co.uk!xlned.com!feeder3.xlned.com!feeder3.cambriumusenet.nl!
feeder1.cambriumusenet.nl!feed.tweaknews.nl!94.232.116.11.MISMATCH!feed.xsnews.nl!
border-1.ams.xsnews.nl!newsfeed.straub-nv.de!news.antakira.com!news.snarked.org!
newsfeed.news.ucla.edu!usenet.stanford.edu!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
From: datakoll@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: piezo buzzer
Date: Sun, 22 Jul 2012 10:06:31 -0700 (PDT)
Organization: http://groups.google.com
Lines: 4
Message-ID: <3afeb411-ec2c-42b4-ae05-bdd3ebaa6706@googlegroups.com>
NNTP-Posting-Host: 166.250.13.186
Mime-Version: 1.0
X-Trace: posting.google.com 1342976791 9267 127.0.0.1 (22 Jul 2012 17:06:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 22 Jul 2012 17:06:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=166.250.13.186;
 posting-account=J5Sc3AoAAABMwl5HpBrgZ-bUWXuec0ps
User-Agent: G2/1.0
Bytes: 1340
X-Received-Bytes: 1388
Content-Type: text/plain; charset=ISO-8859-1


what is postive and negative on a round buzzer where contacs are an inside center
circle and an outside ring  ?

or does positive and negative matter with a piezo buzzer ?


From 3109974296944919627
X-Google-Thread: 241b302a50,b8cd453f3c7126ce
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.76.130 with SMTP id k2mr1785878paw.16.1343313974434;
        Thu, 26 Jul 2012 07:46:14 -0700 (PDT)
Path: p10ni61947386pbh.1!nntp.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!
border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!novia!feed-
C.news.volia.net!volia.net!news2.volia.net!feed-A.news.volia.net!
border1.nntp.ams2.giganews.com!border3.nntp.ams.giganews.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!newsfeed.straub-nv.de!
reality.xs3.de!news.stack.nl!eternal-september.org!feeder.eternal-september.org!
mx04.eternal-september.org!.POSTED!not-for-mail
From: somebody <someone@somewhere.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: piezo buzzer
Date: Sun, 22 Jul 2012 19:25:10 -0400
Organization: A noiseless patient Spider
```

```
Lines: 9
Message-ID: <pt2p085655fc1mt3jgue9dsodr84hg48kr@4ax.com>
References: <3afeb411-ec2c-42b4-ae05-bdd3ebaa6706@googlegroups.com>
Mime-Version: 1.0
Injection-Info: mx04.eternal-september.org; posting-
host="68ef166daa87de4a0b837f4ee571d70c";
     logging-data="16029"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19aZ0cf6rMnzNW7blVgvKHZ"
X-Antivirus-Status: Clean
X-Newsreader: Forte Agent 3.0/32.763
X-Antivirus: avast! (VPS 120722-1, 07/22/2012), Outbound message
Cancel-Lock: sha1:fQTLvjRXqqemNotlz7o6N7l9ffs=
Bytes: 1581
X-Original-Bytes: 1461
X-Received-Bytes: 1700
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Sun, 22 Jul 2012 10:06:31 -0700 (PDT), datakoll@yahoo.com wrote:

>
>what is postive and negative on a round buzzer where contacs are an inside center
circle and an outside ring  ?
>
>or does positive and negative matter with a piezo buzzer ?

No it doesn't matter.  But it sounds like you just have a bare piezo
element, not the whole buzzer.  What is driving it?



From 803222559323645623
X-Google-Thread: fc2a5,873a1740ed15e0d1,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.77.39 with SMTP id p7mr642105paw.0.1343008915160;
        Sun, 22 Jul 2012 19:01:55 -0700 (PDT)
Path: c10ni16556pbw.0!nntp.google.com!news2.google.com!postnews.google.com!
lq16g2000pbb.googlegroups.com!not-for-mail
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: BEST 10 HOT SEXY VIDEOS AND MASALA KISS PHOTOS
Date: Sun, 22 Jul 2012 19:01:54 -0700 (PDT)
Organization: http://groups.google.com
Lines: 50
Message-ID: <e0b38128-24b2-4d24-9443-ddbb0c61c7ff@lq16g2000pbb.googlegroups.com>
NNTP-Posting-Host: 117.199.242.97
Mime-Version: 1.0
X-Trace: posting.google.com 1343008915 13147 127.0.0.1 (23 Jul 2012 02:01:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 23 Jul 2012 02:01:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: lq16g2000pbb.googlegroups.com; posting-host=117.199.242.97;
```

```
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1






     VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.in/2011/06/real-kiss-hot-videos.html








  HOT HOT LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/hot-for-youth.html
SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-101.html
YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.in/2010/06/supr-hot-never-seen.html
SUPER HOT NEVER SEEN
http://hotvideosfreesee.blogspot.in/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/kajal-best-lip-kiss.html


for mopre hot videos
http://allvideosforyouth.blogspot.in/2010/08/super-hot-lip-kiss.html


     jobs
http://alljobsaywhere.blogspot.in/




              mobile

mobile games free download
http://mobileallinforation.blogspot.in/2010/08/mobile-games-free-download.html

mobile ringtones free download
http://mobileallinforation.blogspot.in/2010/08/mobile-ringtones-free-download.html
```

From -8422096259722414005
X-Google-Thread: 241b302a50,b8cd453f3c7126ce
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.89.161 with SMTP id bp1mr1628859pab.33.1343314962604;
Thu, 26 Jul 2012 08:02:42 -0700 (PDT)
Thu, 26 Jul 2012 08: 02:42 -0700 (PDT)
Path: p10ni61947386pbh.1!nntp.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!q21no3254747qas.0!news-
out.google.com!b9ni64957607pbl.0!nntp.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!novia!news-peer1!btnet!zen.net.uk!hamilton.zen.co.uk!xlned.com!
feeder5.xlned.com!ramfeed-1.ams.xsnews.nl!feed.xsnews.nl!border-1.ams.xsnews.nl!
newsfeed.straub-nv.de!reality.xs3.de!nntp-feed.chiark.greenend.org.uk!ewrotcd!
news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: piezo buzzer
Date: Sun, 22 Jul 2012 22:41:20 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 20
Sender: et472@72.0.192.108
Message-ID: <Pine.LNX.4.64.1207222240060.13323@darkstar.example.net>
References: <3afeb411-ec2c-42b4-ae05-bdd3ebaa6706@googlegroups.com>
<pt2p085655fc1mt3jgue9dsodr84hg48kr@4ax.com>
NNTP-Posting-Host: 72.0.192.108
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1343011398 18142 72.0.192.108 (23 Jul 2012 02:43:18 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 23 Jul 2012 02:43:18 GMT
In-Reply-To: <pt2p085655fc1mt3jgue9dsodr84hg48kr@4ax.com>
Bytes: 1748
X-Received-Bytes: 1958
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

On Sun, 22 Jul 2012, somebody wrote:

> On Sun, 22 Jul 2012 10:06:31 -0700 (PDT), datakoll@yahoo.com wrote:
>
>>
>> what is postive and negative on a round buzzer where contacs are an inside center circle and an outside ring ?
>>
>> or does positive and negative matter with a piezo buzzer ?
>
> No it doesn't matter. But it sounds like you just have a bare piezo
> element, not the whole buzzer. What is driving it?
>

Huh?

If it's just the element, it probably doesn't matter. But if it's an
actual buzzer, of course polarity matters, since there's an active device
in there to make the sound, and it is polarity sensitive.

   Michael VE2BVW

```
From 7353436297239190676
X-Google-Thread: fcc6e,398349477274dd6a,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,398349477274dd6a,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,398349477274dd6a,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,398349477274dd6a,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,398349477274dd6a,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,398349477274dd6a,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,398349477274dd6a,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf
6,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.135.231 with SMTP id pv7mr13151137pbb.8.1328598302065;
        Mon, 06 Feb 2012 23:05:02 -0800 (PST)
MIME-Version: 1.0
Path: lh20ni269595pbb.0!nntp.google.com!news2.google.com!news.glorb.com!news-
out.readnews.com!transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1325919900@panix.com>
Followup-To: poster
Date: 7 Feb 2012 02:05:01 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 11 Mar 2012 03:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1328598300@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1328598301 1576 166.84.1.2 (7 Feb 2012 07:05:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 7 Feb 2012 07:05:01 +0000 (UTC)
```

Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |
rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

From -4241646400621583300
X-Google-Thread: 241b302a50,2a24e6e84a097b6c
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.222.71 with SMTP id qk7mr13453900pbc.1.1328605572068;
        Tue, 07 Feb 2012 01:06:12 -0800 (PST)
Path: lh20ni269917pbb.0!nntp.google.com!news2.google.com!eweka.nl!
lightspeed.eweka.nl!feeder.erje.net!eternal-september.org!feeder.eternal-
september.org!mx04.eternal-september.org!.POSTED!not-for-mail
From: atec77 <atec77@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Regenerative Radio Receiver Book
Date: Tue, 07 Feb 2012 19:06:08 +1000
Organization: A noiseless patient Spider
Lines: 26
Message-ID: <jgqpi3$6c9$1@dont-email.me>
References: <43f93288-a5db-4d46-a262-9166818a99a0@d6g2000pra.googlegroups.com>
<1641571e-a991-40e9-9124-7c6f69374820@j15g2000yqb.googlegroups.com>
<Pine.LNX.4.64.1201212322330.28222@darkstar.example.net>
<4f22888d$0$1553$c3e8da3$76491128@news.astraweb.com> <92b47015-645c-4681-893d-
cb392691d2d5@s8g2000pbj.googlegroups.com>
Mime-Version: 1.0
Injection-Date: Tue, 7 Feb 2012 09:06:11 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="boEWUuaP+eHgRsXSv318Bg";
     logging-data="6537"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19YLy59ylnbgjFU6bCutK+7"
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:9.0) Gecko/20111222
Thunderbird/9.0.1
In-Reply-To: <92b47015-645c-4681-893d-cb392691d2d5@s8g2000pbj.googlegroups.com>
Cancel-Lock: sha1:VbyOrm9fQju87uQEamgLNJ0Z8zM=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 5/02/2012 1:38 PM, Lemon Tree wrote:
> Unfortunately Mr Kitchin does not seem to understand the basic theory
> of how regenerative radio receivers work. People who have built his
> circuits often have irresolvable problems trying to get them to work.
> In my book I indicate exactly what the problems are and how they are
> solved. There are also a bunch of circuits that are of general
> interest to anyone building any type of radio. All in all for the
> price you get a lot more than you would get in a copy of QST for
> example.
> The book is now here:
> http://www.webstore.com/Regenerative-Radio-Receiver-
Book,name,14754474,auction_id,auction_details

Offer it free
  you know hams have short arms

--

```
X-No-Archive: Yes
```

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From -5800060448054534843
X-Google-Thread: fc2a5,c5df0a73a3b8dee4,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.189.72 with SMTP id gg8mr15017422pbc.4.1328646174503;
        Tue, 07 Feb 2012 12:22:54 -0800 (PST)
Path: lh20ni271649pbb.0!nntp.google.com!news1.google.com!eweka.nl!
lightspeed.eweka.nl!feeder.erje.net!eternal-september.org!feeder.eternal-
september.org!mx04.eternal-september.org!.POSTED!not-for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Realistic scanning receiver for sale
Date: Tue, 07 Feb 2012 14:23:01 -0600
Organization: A noiseless patient Spider
Lines: 7
Message-ID: <jgs16t$f8f$2@dont-email.me>
Mime-Version: 1.0
Injection-Date: Tue, 7 Feb 2012 20:22:54 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="femdWFrCCglzKUKHHc4IVA";
     logging-data="15631"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+bm1KGt0FDBd42lSgyJa4I"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.8) Gecko/
20050511 Mnenhy/0.7.2.0
X-Accept-Language: en-us
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 120207-1, 02/07/2012), Outbound message
Cancel-Lock: sha1:FzwP+oeWfbzdv3Aum4mrPsK02zs=
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
```

I have a Realistic PRO-2003 AM/FM scanning receiver for sale. It is in very good shape and comes with the manual. I'm asking $45 plus postage for it. You may contact me off the newsgroup.

Thanks

Henry

From 1992060828617000255
X-Google-Thread: fc2a5,d78b8ff7b2ef5969,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.226.10 with SMTP id ro10mr16444890pbc.6.1328692353966;
        Wed, 08 Feb 2012 01:12:33 -0800 (PST)
Path: wr5ni638pbc.0!nntp.google.com!news1.google.com!postnews.google.com!c21g2000yqi.googlegroups.com!not-for-mail
From: Stefan dk6px <dk6px.m@googlemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: D-Star non profit hardware soon available known as www.dvrptr.de
  soon C4FM / 4FSK 4800baud (APCO P.25 Phase I)
Date: Wed, 8 Feb 2012 01:12:33 -0800 (PST)
Organization: http://groups.google.com
Lines: 51
Message-ID: <6cbb0fc5-5b4b-4171-80b9-b89eaec4bf9c@c21g2000yqi.googlegroups.com>
NNTP-Posting-Host: 84.152.57.52
Mime-Version: 1.0
X-Trace: posting.google.com 1328692353 1464 127.0.0.1 (8 Feb 2012 09:12:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 8 Feb 2012 09:12:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c21g2000yqi.googlegroups.com; posting-host=84.152.57.52; posting-account=X36icQoAAAC_MlM8HlpSHOuz9uI8Or_x
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HNKUARELSC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1) AppleWebKit/535.7 (KHTML, like
 Gecko) Chrome/16.0.912.77 Safari/535.7,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

hey guys,

if you are interested in non icom hardware working very well - look here : www.dvrptr.de
  and soon C4FM / 4FSK 4800baud (APCO P.25 Phase I)

For order info just press the link http://flyheli.dyndns.org/dv/dvorder/Default.aspx

Find here the news posted in the yahoo group :

Starting in April 2012 we will have two additional boards which can be plugged on the DV-RPTR board:

1) AMBE Speech Codec Board

This tiny board has connectors for Microphone and Speaker. Together with the DV-RPTR and an FM transceiver you get a real DV transceiver.

This board has two modes:
* DV Transceiver to make QSOs via DV Repeaters or direct
* DV Dongle Mode to talk via Reflectors in the internet

2) FM Transceiver Board

a little add-on board to be plugged on the DV-RPTR. It has a simplex transceiver based on the well known chipset which is also used in the UV-3R. It covers 2m and 70cm HAM bands. The output power is 2 watts max.
It turns your DV-RPTR into a wireless hotspot.

Both boards can be connected to the DV-RPTR at the same time. Then you have a real DV-Transceiver. In this configuration it does not fit into the little metal box, you will need another box.

Please help us !
We need to know how many AMBE Chips and Transceiver Chip we have to buy. If you are interested then please go to www.dvrptr.de and register the quantity of boards you need.
Thank you
Your DV Developer Group

===
vy73 dk6px@amsat.org

```
From -1499739043497081792
X-Google-Thread: fc2a5,cbbb0eba13ad2146
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.222.71 with SMTP id qk7mr6334290pbc.1.1328989080477;
        Sat, 11 Feb 2012 11:38:00 -0800 (PST)
Path: wr5ni13359pbc.0!nntp.google.com!news1.google.com!postnews.google.com!
x6g2000pbk.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for one low-power tube modulation transformer
Date: Sat, 11 Feb 2012 11:37:59 -0800 (PST)
Organization: http://groups.google.com
Lines: 46
Message-ID: <59cd79e2-eab8-4564-8698-c3015672f521@x6g2000pbk.googlegroups.com>
References: <it9xxs.95faa78@radiobanter.com> <jfhf8l02c5i@enews1.newsguy.com>
<4f1c804c$0$16659$5fc30a8@news.tiscali.it>
NNTP-Posting-Host: 50.46.189.195
Mime-Version: 1.0
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 11 Feb 2012 19:38:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x6g2000pbk.googlegroups.com; posting-host=50.46.189.195; posting-
account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALENKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:10.0.1) Gecko/20100101 Firefox/
10.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
```

On Jan 22, 1:33=A0pm, "i3hev, mario" <marioh...@tiscali.it> wrote:

```
> Mark Zenier wrote:
> > One technique was to use only the primary of a center tapped (push pull=
)
> > audio output transformer. =A0...
>
> I tried it (many years ago, when I was a boy...) but it doesn't work
> well: most push-pull output transformers are designed for a null total
> cc flux (currents in the two halves of primary winding should be equal
> and opposite) and, when driven in single-ended, the core saturates and
> severe degradation of audio response occurs.
>
> --
> 73 es 51 de i3hev, op. mario
>
> Non =E8 Radioamatore, se non gli fuma il saldatore!
> - Campagna 2006 "Il Radioamatore non =E8 uno che ascolta la radio"
>
> it.hobby.radioamatori.moderatohttp://digilander.libero.it/hamwebhttp://di=
gilander.libero.it/esperantovenezia
```

A solution to that is to make it more like they used to do AM broadcast transmitters: feed the RF stage its DC through an audio choke, and capacitor-couple the audio into the RF deck end of the choke (from one of the plate connections on the audio transformer). If the audio amplifier and the RF deck use the same plate voltage, the capacitor doesn't need to handle the full DC voltage, but it should be non-polar. The problem then becomes one of finding (or winding) an audio choke with enough inductance and that can handle the current. In AM broadcast transmitters, the modulation choke was typically the largest component. Since for voice you should only need to get down to 300Hz or so, 10 henries inductance should be OK (about 20k ohms impedance), and you might be OK with less. A 4.7uF coupling capacitor should work OK, as it would be just over 100 ohms reactance at 300Hz. 4.7uF film capacitors aren't unreasonable to find. You wouldn't ever get to 100% modulation, since the audio side doesn't go to zero volts on the plate of the conducting side, but you could add the voice coil winding in the proper phase to get a bit more modulating voltage.

I've also seen a design where the modulator was single-ended but used a push-pull transformer; the RF amp was fed its DC through the other side of the center tapped winding. That allowed reasonable balance of the DC in the transformer, and worked decently.

Cheers,
Tom

```
From -2573870146577706437
X-Google-Thread: fc2a5,cbbb0eba13ad2146
X-Google-NewGroupId: yes
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Path: wr5ni15815pbc.0!nntp.google.com!news1.google.com!eweka.nl!
lightspeed.eweka.nl!feeder.erje.net!eternal-september.org!feeder.eternal-
september.org!mx04.eternal-september.org!.POSTED!not-for-mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for one low-power tube modulation transformer
Date: Sun, 12 Feb 2012 10:57:40 +0000
Organization: A noiseless patient Spider
Lines: 52
Message-ID: <Y+mY+EMks5NPFw$F@g3ohx.demon.co.uk>
References: <it9xxs.95faa78@radiobanter.com> <jfhf8l02c5i@enews1.newsguy.com>
 <4f1c804c$0$16659$5fc30a8@news.tiscali.it>
 <59cd79e2-eab8-4564-8698-c3015672f521@x6g2000pbk.googlegroups.com>
Mime-Version: 1.0
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     logging-data="22381"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18AF5VQY6lrmiVh082X9NPmwrzkByWrZ14="
User-Agent: Turnpike/6.07-S (<XteqW6d7KPTV6PCj8BMoeAlKNc>)
Cancel-Lock: sha1:DlHc7Zznl1MLeHb4uQ6oh4dy33o=
Content-Type: text/plain;charset=iso-8859-1;format=flowed
Content-Transfer-Encoding: 8bit
```

In message
<59cd79e2-eab8-4564-8698-c3015672f521@x6g2000pbk.googlegroups.com>,
K7ITM <k7itm@msn.com> writes
>On Jan 22, 1:33�pm, "i3hev, mario" <marioh...@tiscali.it> wrote:
>> Mark Zenier wrote:
>> > One technique was to use only the primary of a center tapped (push pull)
>> > audio output transformer. �...
>>
>> I tried it (many years ago, when I was a boy...) but it doesn't work
>> well: most push-pull output transformers are designed for a null total
>> cc flux (currents in the two halves of primary winding should be equal
>> and opposite) and, when driven in single-ended, the core saturates and
>> severe degradation of audio response occurs.
>>
>> --

```
>> 73 es 51 de i3hev, op. mario
>>
>> Non � Radioamatore, se non gli fuma il saldatore!
>> - Campagna 2006 "Il Radioamatore non � uno che ascolta la radio"
>>
>>
>>it.hobby.radioamatori.moderatohttp://digilander.libero.it/hamwebhttp://
>>digilander.libero.it/esperantovenezia
>
>A solution to that is to make it more like they used to do AM
>broadcast transmitters:  feed the RF stage its DC through an audio
>choke, and capacitor-couple the audio into the RF deck end of the
>choke (from one of the plate connections on the audio transformer).
>If the audio amplifier and the RF deck use the same plate voltage, the
>capacitor doesn't need to handle the full DC voltage, but it should be
>non-polar.  The problem then becomes one of finding (or winding) an
>audio choke with enough inductance and that can handle the current.
>In AM broadcast transmitters, the modulation choke was typically the
>largest component.  Since for voice you should only need to get down
>to 300Hz or so, 10 henries inductance should be OK (about 20k ohms
>impedance), and you might be OK with less.  A 4.7uF coupling capacitor
>should work OK, as it would be just over 100 ohms reactance at 300Hz.
>4.7uF film capacitors aren't unreasonable to find.  You wouldn't ever
>get to 100% modulation, since the audio side doesn't go to zero volts
>on the plate of the conducting side, but you could add the voice coil
>winding in the proper phase to get a bit more modulating voltage.
>
>I've also seen a design where the modulator was single-ended but used
>a push-pull transformer; the RF amp was fed its DC through the other
>side of the center tapped winding.  That allowed reasonable balance of
>the DC in the transformer, and worked decently.
>
Have a look at the Codar AT5 schematic:
http://www.vmarsmanuals.co.uk/new/at5.htm
http://www.vmarsmanuals.co.uk/new/at5.pdf
--
Ian



From -6172859948174493351
X-Google-Thread: fc2a5,671369caa9fc1a1d,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.238.198 with SMTP id vm6mr7406912pbc.3.1329049272923;
        Sun, 12 Feb 2012 04:21:12 -0800 (PST)
Path: wr5ni16033pbc.0!nntp.google.com!news1.google.com!postnews.google.com!
9g2000pbd.googlegroups.com!not-for-mail
From: anu rasi <anurasi63@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: hai dear this is special gift for uuuuuuuuuuuuuu
Date: Sun, 12 Feb 2012 04:21:06 -0800 (PST)
Organization: http://groups.google.com
```

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Lines: 1
Message-ID: <e1d260a3-468d-4e7a-a526-bdaf7b07fa16@9g2000pbd.googlegroups.com>
NNTP-Posting-Host: 122.174.107.41
Mime-Version: 1.0
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 12 Feb 2012 12:21:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 9g2000pbd.googlegroups.com; posting-host=122.174.107.41; posting-
account=YEDdQQoAAACBUk4TpnZngFhVPOJNm9EC
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ASELCHRU
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1) AppleWebKit/535.1 (KHTML, like
 Gecko) Chrome/14.0.835.202 Safari/535.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

http://123maza.com/46/ship587/



From -9146875903139311992
X-Google-Thread: fc2a5,cbbb0eba13ad2146
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.226.10 with SMTP id ro10mr8995643pbc.6.1329117475366;
        Sun, 12 Feb 2012 23:17:55 -0800 (PST)
Path: wr5ni19096pbc.0!nntp.google.com!news1.google.com!postnews.google.com!
vh10g2000pbc.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for one low-power tube modulation transformer
Date: Sun, 12 Feb 2012 23:17:45 -0800 (PST)
Organization: http://groups.google.com
Lines: 79
Message-ID: <d29fc18e-5bd7-4d70-b67e-2c0439d6de28@vh10g2000pbc.googlegroups.com>
References: <it9xxs.95faa78@radiobanter.com> <jfhf8l02c5i@enews1.newsguy.com>
 <4f1c804c$0$16659$5fc30a8@news.tiscali.it> <59cd79e2-eab8-4564-8698-
c3015672f521@x6g2000pbk.googlegroups.com>
 <Y+mY+EMks5NPFw$F@g3ohx.demon.co.uk>
NNTP-Posting-Host: 50.46.189.195
Mime-Version: 1.0
X-Trace: posting.google.com 1329117468 18391 127.0.0.1 (13 Feb 2012 07:17:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 13 Feb 2012 07:17:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: vh10g2000pbc.googlegroups.com; posting-host=50.46.189.195;
posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALENKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:10.0.1) Gecko/20100101 Firefox/
10.0.1,gzip(gfe)
```

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Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

On Feb 12, 2:57=A0am, Ian Jackson
<ianREMOVETHISjack...@g3ohx.demon.co.uk> wrote:
> In message
> <59cd79e2-eab8-4564-8698-c3015672f...@x6g2000pbk.googlegroups.com>,
> K7ITM <k7...@msn.com> writes
>
>
>
>
>
>
>
> >On Jan 22, 1:33=A0pm, "i3hev, mario" <marioh...@tiscali.it> wrote:
> >> Mark Zenier wrote:
> >> > One technique was to use only the primary of a center tapped (push p=
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> >> > audio output transformer. =A0...
>
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> >> cc flux (currents in the two halves of primary winding should be equal
> >> and opposite) and, when driven in single-ended, the core saturates and
> >> severe degradation of audio response occurs.
>
> >> --
> >> 73 es 51 de i3hev, op. mario
>
> >> Non =E8 Radioamatore, se non gli fuma il saldatore!
> >> - Campagna 2006 "Il Radioamatore non =E8 uno che ascolta la radio"
>
> >>it.hobby.radioamatori.moderatohttp://digilander.libero.it/hamwebhttp://
> >>digilander.libero.it/esperantovenezia
>
> >A solution to that is to make it more like they used to do AM
> >broadcast transmitters: =A0feed the RF stage its DC through an audio
> >choke, and capacitor-couple the audio into the RF deck end of the
> >choke (from one of the plate connections on the audio transformer).
> >If the audio amplifier and the RF deck use the same plate voltage, the
> >capacitor doesn't need to handle the full DC voltage, but it should be
> >non-polar. =A0The problem then becomes one of finding (or winding) an
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> >In AM broadcast transmitters, the modulation choke was typically the
> >largest component. =A0Since for voice you should only need to get down
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> >impedance), and you might be OK with less. =A0A 4.7uF coupling capacitor
> >should work OK, as it would be just over 100 ohms reactance at 300Hz.
> >4.7uF film capacitors aren't unreasonable to find. =A0You wouldn't ever
> >get to 100% modulation, since the audio side doesn't go to zero volts
> >on the plate of the conducting side, but you could add the voice coil
> >winding in the proper phase to get a bit more modulating voltage.
```

>
> >I've also seen a design where the modulator was single-ended but used
> >a push-pull transformer; the RF amp was fed its DC through the other
> >side of the center tapped winding. =A0That allowed reasonable balance of
> >the DC in the transformer, and worked decently.
>
> Have a look at the Codar AT5 schematic:http://www.vmarsmanuals.co.uk/new/=
at5.htmhttp://www.vmarsmanuals.co.uk/new/at5.pdf
> --
> Ian

Thanks for sharing that, Ian. The webpage says "1960's." You
wouldn't happen to know any closer than that, would you? The one I'm
thinking of was a homebrew unit that as far as I know was developed by
Dick "Mitch" Mitchell in Washington state. I forget his call. He
developed it before I became a ham, so it must have been mid 1950's.
He used a 6146 RF PA, and 6146 modulator output. It was a minimalist
design, using a carbon mic with a mic transformer to directly drive
the modulator grid. I think he had a couple tubes in the RF chain
before the 6146, but I don't remember. It was very compact, built
entirely inside a 3" high aluminum chassis box, probably 10" x 12".
It used an external power supply: a dynamotor in mobile applications,
typically. We typically used one on Field Day, and given how much
power was dissipated inside that small box, I was a little surprised
that we pretty much never had any problem with it. I don't recall now
if he built them as single-band units, or had some band switching.

Cheers,
Tom

From -6872785018187738926
X-Google-Thread: fc2a5,cbbb0eba13ad2146
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.74.201 with SMTP id w9mr9281706pbv.0.1329124825626;
        Mon, 13 Feb 2012 01:20:25 -0800 (PST)
Path: wr5ni19424pbc.0!nntp.google.com!news2.google.com!goblin1!goblin.stu.neva.ru!
eternal-september.org!feeder.eternal-september.org!mx04.eternal-
september.org!.POSTED!not-for-mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for one low-power tube modulation transformer
Date: Mon, 13 Feb 2012 08:50:46 +0000
Organization: A noiseless patient Spider
Lines: 36
Message-ID: <voV1LECm7MOPFwRF@g3ohx.demon.co.uk>
References: <it9xxs.95faa78@radiobanter.com> <jfhf8l02c5i@enews1.newsguy.com>
 <4f1c804c$0$16659$5fc30a8@news.tiscali.it>
 <59cd79e2-eab8-4564-8698-c3015672f521@x6g2000pbk.googlegroups.com>
 <Y+mY+EMks5NPFw$F@g3ohx.demon.co.uk>
 <d29fc18e-5bd7-4d70-b67e-2c0439d6de28@vh10g2000pbc.googlegroups.com>

```
Mime-Version: 1.0
Injection-Info: mx04.eternal-september.org; posting-host="1Z/M1oM6JVqBnMi2uYI0kA";
	logging-data="11097"; mail-complaints-to="abuse@eternal-september.org";
	posting-account="U2FsdGVkX19fcmh7CXFOSYkoITRqhie8k1eAO/KuM0w="
User-Agent: Turnpike/6.07-S (<XQTqWOr$KPDiePCjvRDoeAR9qV>)
Cancel-Lock: sha1:eCJee9XHO78F/NyilF2BaO5vq3s=
Content-Type: text/plain;charset=iso-8859-1;format=flowed
Content-Transfer-Encoding: 8bit

In message
<d29fc18e-5bd7-4d70-b67e-2c0439d6de28@vh10g2000pbc.googlegroups.com>,
K7ITM <k7itm@msn.com> writes
>On Feb 12, 2:57�am, Ian Jackson
><ianREMOVETHISjack...@g3ohx.demon.co.uk> wrote:
>> In message
>> <59cd79e2-eab8-4564-8698-c3015672f...@x6g2000pbk.googlegroups.com>,
>> K7ITM <k7...@msn.com> writes
>>
>>



>>
>> >I've also seen a design where the modulator was single-ended but used
>> >a push-pull transformer; the RF amp was fed its DC through the other
>> >side of the center tapped winding. �That allowed reasonable balance of
>> >the DC in the transformer, and worked decently.
>>
>> Have a look at the Codar AT5
>>schematic:http://www.vmarsmanuals.co.uk/new/at5.htmhttp://www.vmarsmanu
>>als.co.uk/new/at5.pdf
>> --
>> Ian
>
>Thanks for sharing that, Ian.  The webpage says "1960's."  You
>wouldn't happen to know any closer than that, would you?

No really. It was just that the mention of the centre-tapped modulation
choke immediately reminded me of the Codar AT5 and the matching
receiver, the matching receiver, the T28. I used the pair mobile back in
the 1960s, and although such equipment is hardly up to today's
more-exacting standards, I had great fun with them. You occasionally see
the odd one (or pair) on sale at the various amateur radio rallies, for
around $50.
--
Ian


From -3560341777838867925
X-Google-Thread: fc2a5,7a9320b4fb58c462,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.74.201 with SMTP id w9mr12025456pbv.0.1329208358727;
```

```
        Tue, 14 Feb 2012 00:32:38 -0800 (PST)
Path: wr5ni23311pbc.0!nntp.google.com!news2.google.com!postnews.google.com!
jn12g2000pbb.googlegroups.com!not-for-mail
From: anbu ariraj <anbuariraj@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: hai dear this is special gift for uuuuuuuuu
Date: Tue, 14 Feb 2012 00:32:38 -0800 (PST)
Organization: http://groups.google.com
Lines: 1
Message-ID: <2069dcd3-b445-483f-82db-72aa2ec6fc10@jn12g2000pbb.googlegroups.com>
NNTP-Posting-Host: 180.215.24.222
Mime-Version: 1.0
X-Trace: posting.google.com 1329208358 7266 127.0.0.1 (14 Feb 2012 08:32:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 14 Feb 2012 08:32:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: jn12g2000pbb.googlegroups.com; posting-host=180.215.24.222;
posting-account=XZriPQoAAAB86jCzvrWez3HdNsUkbFG1
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.3)
 Gecko/20090824 Firefox/3.5.3,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

http://123maza.com/46/plant958/



From -2639657597154869502
X-Google-Thread: fc2a5,2ed5d56a10e99725,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.238.198 with SMTP id vm6mr12123714pbc.3.1329211411926;
        Tue, 14 Feb 2012 01:23:31 -0800 (PST)
Path: wr5ni23447pbc.0!nntp.google.com!news2.google.com!postnews.google.com!
n8g2000pbc.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT SEXY VIDEOS AND ROMANTIC BEAUTIFUL PHOTOS
Date: Tue, 14 Feb 2012 01:23:31 -0800 (PST)
Organization: http://groups.google.com
Lines: 30
Message-ID: <3d5fa064-8ffe-4eb3-a511-eced4b49fe8e@n8g2000pbc.googlegroups.com>
NNTP-Posting-Host: 117.199.249.6
Mime-Version: 1.0
X-Trace: posting.google.com 1329211411 5398 127.0.0.1 (14 Feb 2012 09:23:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 14 Feb 2012 09:23:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n8g2000pbc.googlegroups.com; posting-host=117.199.249.6; posting-
account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
```

```
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.in/

ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.in/2010/09/hot-lip-kiss-135.html

ALL JOBS SITES FREE SEE

http://jobstwo.blogspot.in/

HOT VIDEOS

http://hotvideotoou.blogspot.in/2011/01/kiss-videos.html

hot lip kiss
http://hotvidos.blogspot.in/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.in/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.in/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.in/2010/07/real-hot-videos.html

```
From -3990485988740700016
X-Google-Thread: fc2a5,cbbb0eba13ad2146
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.73.229 with SMTP id o5mr621882pbv.7.1329302908378;
        Wed, 15 Feb 2012 02:48:28 -0800 (PST)
Path: wr5ni27581pbc.0!nntp.google.com!news2.google.com!goblin2!goblin.stu.neva.ru!
feeder.erje.net!news1.as3257.net!draco.tiscalinet.it!news-f2.tiscali.it!not-for-
mail
Date: Wed, 15 Feb 2012 11:48:26 +0100
From: "i3hev, mario" <marioheld@tiscali.it>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, it
```

```
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for one low-power tube modulation transformer
References: <it9xxs.95faa78@radiobanter.com> <jfhf8l02c5i@enews1.newsguy.com>
<4f1c804c$0$16659$5fc30a8@news.tiscali.it> <59cd79e2-eab8-4564-8698-
c3015672f521@x6g2000pbk.googlegroups.com>
In-Reply-To: <59cd79e2-eab8-4564-8698-c3015672f521@x6g2000pbk.googlegroups.com>
Lines: 35
Message-ID: <4f3b8d7b$0$16656$5fc30a8@news.tiscali.it>
Organization: Tiscali SpA
NNTP-Posting-Host: 84.221.94.231
X-Trace: 1329302907 news.tiscali.it 16656 84.221.94.231:1529
X-Complaints-To: abuse@tiscali.it
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: quoted-printable

K7ITM wrote:

> A solution to that is to... feed the RF stage its DC through an audio
> choke, and capacitor-couple the audio into the RF deck...

this is of course a perfectly good solution, at least from a technical=20
point of view, but... audio chokes are nowadays precious rare modern art =

masterpieces :) and the only practical way to get a suitable one is to=20
wind it yourself, which is more or less the same as winding your own=20
transformer :)

> ...I've also seen a design where the modulator was single-ended but use=
d
> a push-pull transformer; the RF amp was fed its DC through the other
> side of the center tapped winding.  That allowed reasonable balance of
> the DC in the transformer, and worked decently. ...

been there, done that - it sure works, in a fashion... but not very=20
satisfactorily. At the time when I tried it, I reasoned that using a=20
single ended audio tube with a plate current more or less similar to=20
that of the RF amp tube, the total core flux in the transformer should=20
be more or less balanced - what I did not know then (I was *very*=20
young...) was that average plate currents mean very little, saturation=20
occurs because of peaks! :)

--=20
73 es 51 de i3hev, op. mario

Non =E8 Radioamatore, se non gli fuma il saldatore!
- Campagna 2006 "Il Radioamatore non =E8 uno che ascolta la radio"

it.hobby.radioamatori.moderato
http://digilander.libero.it/hamweb
http://digilander.libero.it/esperantovenezia
```

```
From -5628651970949828644
X-Google-Thread: fc2a5,20defb7298f6b8fe,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.74.201 with SMTP id w9mr4281799pbv.0.1329412430902;
        Thu, 16 Feb 2012 09:13:50 -0800 (PST)
Path: wr5ni32514pbc.0!nntp.google.com!news1.google.com!postnews.google.com!
ir9g2000pbc.googlegroups.com!not-for-mail
From: darling2525 <kousalya99@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: LATEST HOT PHOTOS & VIDEOS
Date: Thu, 16 Feb 2012 09:13:50 -0800 (PST)
Organization: http://groups.google.com
Lines: 38
Message-ID: <f9a850d0-6adc-4a7f-8352-649d4fb2cc45@ir9g2000pbc.googlegroups.com>
NNTP-Posting-Host: 117.199.244.100
Mime-Version: 1.0
X-Trace: posting.google.com 1329412430 17649 127.0.0.1 (16 Feb 2012 17:13:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 16 Feb 2012 17:13:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: ir9g2000pbc.googlegroups.com; posting-host=117.199.244.100;
posting-account=FCyjXwoAAABgroTD4iFctHinmtQ2BDsm
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1


        ACTREESS SUPRIYA SHAILJA LATEST  STILLS
http://actressgallery-kalyani.blogspot.in/2012/02/supriya-shailja-stills.html
       BOLLYWOOD ACTRESS APSARA AWARDS 2012
http://actressgallery-kalyani.blogspot.in/2012/01/apsara-awards-2012.html
              AISHWARYA RAI LATEST HOT PICS
http://actressimages-9.blogspot.in/2012/01/aishwarya-rai.html
            KATRINA KAIF HOT MAGAZINES PHOTOS
http://actressimages-9.blogspot.in/2012/01/katrina-kaif-magazine-photos.html
                       TRISHA HOT BEAUTIFUL IMAGES
http://actressimages-9.blogspot.in/2012/01/trisha-krishnan.html
               HOT MALLIKA SHERAWAT PHOTOS
http://actressimages-9.blogspot.in/2012/01/mallika-sherawat.html
              SHEELA LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.in/2012/01/sheela-latest-stills.html
        KATRINA KAIF ITEM SONG STILLS
http://actressgallery-kalyani.blogspot.in/2012/01/katrina-kaif-item-song-
stills.html
                 NIPPU MOVIE LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.in/2011/11/nippu-movie-stills.html
     KAJAL AGARWAL  IN  BUSINESSMAN MOVIE
http://actressgallery-kalyani.blogspot.in/2012/01/kajal-agarwal-in-business-
```

```
man.html
              RITU KAUR LATEST PHOTO STILLS
http://actressgallery-kalyani.blogspot.in/2012/01/ritu-kaur-stills.html
 SHRUTI HASSAN HOT IN 3 MOVIE
http://actressgallery-kalyani.blogspot.in/2011/11/shruti-hassan-in-3-movie.html
              HOT KATRINA KAIF PHOTOS
http://actressgallery-kalyani.blogspot.in/2011/09/katrina-kaif.html
           AISHWARYA RAI HOT HQ PHOTO STILLS
http://actressgallery-kalyani.blogspot.in/2011/09/aishwarya-rai.html
           ASIN HOT PHOTO GALLERY
http://actressgallery-kalyani.blogspot.in/2011/09/asin.html
              HANSIKA MATOWNI LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.in/2011/09/hansika-motwani.html
                KAJAL AGARWAL HOT PHOTOS
http://actressgallery-kalyani.blogspot.in/2011/09/kajal-agarwal.html
  DEEPIKA PADUKONE SPICY WALLPAPERS
http://actressgallery-kalyani.blogspot.in/2011/12/deepika-padukone.html



From 2815956932247407449
X-Google-Thread: fc2a5,3c62f5f8657b5dd,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.226.10 with SMTP id ro10mr19599013pbc.6.1329865170096;
        Tue, 21 Feb 2012 14:59:30 -0800 (PST)
MIME-Version: 1.0
Path: wr5ni52958pbc.0!nntp.google.com!news1.google.com!goblin2!goblin.stu.neva.ru!
aioe.org!.POSTED!not-for-mail
From: KC8QJP <kc8qjp@nomail.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Varmint Quad Power BI Linear Base Amplifier Seller refurbished
Date: Tue, 21 Feb 2012 22:59:25 +0000 (UTC)
Organization: crisco kathy
Lines: 6
Message-ID: <ji17kd$66s$3@speranza.aioe.org>
NNTP-Posting-Host: uCGPWJs/QmDAsKNtVwf0aQ.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.8.2

This Varmint XL1000 Is bad to the bone you can key it up with 1 watt
everthing works as it should.The tubes are all new and they are 6jt6
Driving 6lr6.It has been completely gone threw.

http://www.ebay.com/itm/Varmint-Quad-Power-BI-Linear-Base-
Amplifier-/230749530465?pt=LH_DefaultDomain_0&hash=item35b9be6961


From 1589671410264412836
X-Google-Thread: fc2a5,cbbb0eba13ad2146
X-Google-NewGroupId: yes
```

```
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.129.133 with SMTP id nw5mr2158190pbb.3.1330084942308;
        Fri, 24 Feb 2012 04:02:22 -0800 (PST)
Path: h9ni3621pbe.0!nntp.google.com!news2.google.com!goblin2!goblin.stu.neva.ru!
newsfeed1.swip.net!85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-
september.org!mx04.eternal-september.org!.POSTED!not-for-mail
From: highlandham <highlandham.nospam@rfburns.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for one low-power tube modulation transformer
Date: Fri, 24 Feb 2012 12:02:20 +0000
Organization: A noiseless patient Spider
Lines: 62
Message-ID: <ji7u8d$5ik$1@dont-email.me>
References: <it9xxs.95faa78@radiobanter.com> <jfhf8l02c5i@enews1.newsguy.com>
<4f1c804c$0$16659$5fc30a8@news.tiscali.it> <59cd79e2-eab8-4564-8698-
c3015672f521@x6g2000pbk.googlegroups.com> <Y+mY+EMks5NPFw$F@g3ohx.demon.co.uk>
Mime-Version: 1.0
Injection-Date: Fri, 24 Feb 2012 12:02:21 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="0Iy2aiqu61h8G6cbz81E3w";
     logging-data="5716"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+x7XX+68LuyMO96zfAjRSCREIDLiSWKfU="
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:10.0.2) Gecko/20120216 Thunderbird/
10.0.2
In-Reply-To: <Y+mY+EMks5NPFw$F@g3ohx.demon.co.uk>
Cancel-Lock: sha1:2fDIoAUPe6ja12maglRNVuJaLgU=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit

On 12/02/12 10:57, Ian Jackson wrote:
> In message
> <59cd79e2-eab8-4564-8698-c3015672f521@x6g2000pbk.googlegroups.com>,
> K7ITM <k7itm@msn.com> writes
>> On Jan 22, 1:33 pm, "i3hev, mario" <marioh...@tiscali.it> wrote:
>>> Mark Zenier wrote:
>>> > One technique was to use only the primary of a center tapped (push
>>> pull)
>>> > audio output transformer.  ...
>>>
>>> I tried it (many years ago, when I was a boy...) but it doesn't work
>>> well: most push-pull output transformers are designed for a null total
>>> cc flux (currents in the two halves of primary winding should be equal
>>> and opposite) and, when driven in single-ended, the core saturates and
>>> severe degradation of audio response occurs.
>>>
>>> --
>>> 73 es 51 de i3hev, op. mario
>>>
>>> Non � Radioamatore, se non gli fuma il saldatore!
>>> - Campagna 2006 "Il Radioamatore non � uno che ascolta la radio"
>>>
>>>
>>> it.hobby.radioamatori.moderatohttp://digilander.libero.it/hamwebhttp://
```

>>> digilander.libero.it/esperantovenezia
>>
>> A solution to that is to make it more like they used to do AM
>> broadcast transmitters: feed the RF stage its DC through an audio
>> choke, and capacitor-couple the audio into the RF deck end of the
>> choke (from one of the plate connections on the audio transformer).
>> If the audio amplifier and the RF deck use the same plate voltage, the
>> capacitor doesn't need to handle the full DC voltage, but it should be
>> non-polar. The problem then becomes one of finding (or winding) an
>> audio choke with enough inductance and that can handle the current.
>> In AM broadcast transmitters, the modulation choke was typically the
>> largest component. Since for voice you should only need to get down
>> to 300Hz or so, 10 henries inductance should be OK (about 20k ohms
>> impedance), and you might be OK with less. A 4.7uF coupling capacitor
>> should work OK, as it would be just over 100 ohms reactance at 300Hz.
>> 4.7uF film capacitors aren't unreasonable to find. You wouldn't ever
>> get to 100% modulation, since the audio side doesn't go to zero volts
>> on the plate of the conducting side, but you could add the voice coil
>> winding in the proper phase to get a bit more modulating voltage.
>>
>> I've also seen a design where the modulator was single-ended but used
>> a push-pull transformer; the RF amp was fed its DC through the other
>> side of the center tapped winding. That allowed reasonable balance of
>> the DC in the transformer, and worked decently.
>>
> Have a look at the Codar AT5 schematic:
> http://www.vmarsmanuals.co.uk/new/at5.htm
> http://www.vmarsmanuals.co.uk/new/at5.pdf

===

To my knowledge it is called Heising modulation.As a young
(radio-unlicenced) boy I made a single 6K7 valve(tube) oscillator for
the 80m band with the anode fed by the anode voltage of a single EL3
output valve 4 Watts audio amplifier meant to feed a loudspeaker. With
a long wire antenna the results were an amazingly clean AM signal
getting out well in excess of 100 km
Those were the days before SSB.

Frank   GM0CSZ / KN6WH   only licenced since 1985.

```
From 6798466439411837564
X-Google-Thread: 11480d,efeb620093afb0b1,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,efeb620093afb0b1,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,efeb620093afb0b1,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid7221ecd0f7,gidd7f5508063,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.156.210 with SMTP id y18mr291060bkw.7.1330585204735;
        Wed, 29 Feb 2012 23:00:04 -0800 (PST)
MIME-Version: 1.0
```

Path: t13ni86253bkb.0!nntp.google.com!news2.google.com!
newsfeed2.dallas1.level3.net!news.level3.com!bloom-beacon.mit.edu!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1328079601@panix.com>
Followup-To: poster
Date: 1 Mar 2012 02:00:02 -0500
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Apr 2012 03:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1330585201@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1330585203 28637 166.84.1.2 (1 Mar 2012 07:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 1 Mar 2012 07:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader
opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/
d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. After a successful trial |
period (90 days, through early July 2009), we decided to adopt this |
change permanently. |

Approved rec.radio.amateur.* newsgroups are those that are currently
listed in the latest version of the "List of Big Eight Newsgroups" which
is crossposted monthly to news.announce.newgroups, news.groups, and
news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From 5235359408864442683
X-Google-Thread: fc2a5,d7df8076e86f8b7d,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.143.143 with SMTP id v15mr337568bku.8.1330594666165;
        Thu, 01 Mar 2012 01:37:46 -0800 (PST)
Path: t13ni86656bkb.0!nntp.google.com!news2.google.com!postnews.google.com!
ge5g2000vbb.googlegroups.com!not-for-mail
From: kally jhons <kally.jhons888@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Dade Builders
Date: Thu, 1 Mar 2012 01:36:29 -0800 (PST)
Organization: http://groups.google.com
Lines: 7
Message-ID: <61e6504f-f651-417c-b975-90a8076c65c4@ge5g2000vbb.googlegroups.com>
NNTP-Posting-Host: 182.178.247.48
Mime-Version: 1.0
X-Trace: posting.google.com 1330594665 31510 127.0.0.1 (1 Mar 2012 09:37:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 1 Mar 2012 09:37:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: ge5g2000vbb.googlegroups.com; posting-host=182.178.247.48;
posting-account=5oGuNgoAAABG6diMWOuTWxHkKSZ3CFzo
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:9.0.1) Gecko/20100101 Firefox/
9.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

Dade Construction Work offering building construction, home construction, office construction, and different type roads construction services.

Best Regards:
Dade Construction Work
http://www.rodericllc.com/

```
From -3671091385671236897
X-Google-Thread: fc2a5,7cb80cac4f772a6c,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.132.69 with SMTP id os5mr1071540pbb.6.1330616702005;
        Thu, 01 Mar 2012 07:45:02 -0800 (PST)
Path: h9ni27151pbe.0!nntp.google.com!news2.google.com!postnews.google.com!
j8g2000yqm.googlegroups.com!not-for-mail
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SEXY ACTRESES VIDEOS MOVIES PHOTOS WATCH AND DOWNLOAD
Date: Thu, 1 Mar 2012 07:43:21 -0800 (PST)
Organization: http://groups.google.com
Lines: 41
Message-ID: <1f8b113e-176b-43c6-b91d-8bc6993a0078@j8g2000yqm.googlegroups.com>
NNTP-Posting-Host: 117.199.251.20
Mime-Version: 1.0
X-Trace: posting.google.com 1330616701 31009 127.0.0.1 (1 Mar 2012 15:45:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 1 Mar 2012 15:45:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j8g2000yqm.googlegroups.com; posting-host=117.199.251.20; posting-
account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

hot videos

real kiss videos
http://videos2youth.blogspot.in/2011/11/real-kiss-videos.html
first night hot videos
http://videos2youth.blogspot.in/2011/11/first-night-hot-videos.html
mallu hot videos
http://videos2youth.blogspot.in/2011/11/mallu-hot-videos.html
indian bedroom hot
http://videos2youth.blogspot.in/2011/11/indian-bedroom-hot.html
romantic videos
http://videos2youth.blogspot.in/2011/11/romantic-videos.html

HOT PHOTOS

lip kiss photos
http://photostwo2u.blogspot.in/2010/09/photos.html
bikini photos
http://photostwo2u.blogspot.in/2010/09/photos-2.html
SEXY PHOTOS
http://photostwo2u.blogspot.in/2010/09/photos-3.html
indian hot photos
http://photostwo2u.blogspot.in

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.in/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.in/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.in/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.in/2009/02/sql-server-interview-questions.html

```
From -7315869006833411700
X-Google-Thread: fcc6e,3112125e96ef0e2b,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,3112125e96ef0e2b,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,3112125e96ef0e2b,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,3112125e96ef0e2b,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,3112125e96ef0e2b,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid241b302a50,gida3e752f117,gide721ae2bf6,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.134.225 with SMTP id pn1mr1382478pbb.7.1331103901830;
        Tue, 06 Mar 2012 23:05:01 -0800 (PST)
MIME-Version: 1.0
Path: h9ni48761pbe.0!nntp.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!nx01.iad01.newshosting.com!newshosting.com!news-out.readnews.com!transit3.readnews.com!panix!panix2.panix.com!not-for-mail
```

From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1328598300@panix.com>
Followup-To: poster
Date: 7 Mar 2012 02:05:01 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Apr 2012 03:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1331103900@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1331103901 19404 166.84.1.2 (7 Mar 2012 07:05:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 7 Mar 2012 07:05:01 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
X-Received-Bytes: 3537

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |

```
 rec.radio.amateur.dx                                                        |
 rec.radio.amateur.equipment                                                 |
 rec.radio.amateur.homebrew                                                  |
 rec.radio.amateur.moderated                                                 |
 rec.radio.amateur.space                                                     |
```

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

```
From -7942125089884668745
X-Google-Thread: fc2a5,ee69357696b2f9af,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.235.4 with SMTP id ui4mr1584731pbc.3.1331108908480;
        Wed, 07 Mar 2012 00:28:28 -0800 (PST)
Path: h9ni48990pbe.0!nntp.google.com!news2.google.com!postnews.google.com!
d17g2000vba.googlegroups.com!not-for-mail
From: Filip Jerzy <filip.jerzy464@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Dade Construction Work
Date: Wed, 7 Mar 2012 00:26:35 -0800 (PST)
Organization: http://groups.google.com
Lines: 10
Message-ID: <d44adc2f-80e2-4504-b78d-ed87507dd2d2@d17g2000vba.googlegroups.com>
NNTP-Posting-Host: 182.178.176.236
Mime-Version: 1.0
X-Trace: posting.google.com 1331108908 15514 127.0.0.1 (7 Mar 2012 08:28:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 7 Mar 2012 08:28:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d17g2000vba.googlegroups.com; posting-host=182.178.176.236;
posting-account=QKtZWwoAAAAKS_ySnjdaXbQYqarfALQ6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:9.0.1) Gecko/20100101 Firefox/
9.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

The first thing about this company is, it is experienced one. It has

trained and quality of Manpower. Their efficiency is great. This is
the company which has satisfied its clients over the years. Its
constructed buildings are magnificent. It is specialized in commercial
and industrial construction.
For more details visits: http://www.rodericllc.com/

Best Regards:
Dade Construction Work
http://www.rodericllc.com/

From 1839928838213993514
X-Google-Thread: fc2a5,ee69357696b2f9af
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.129.169 with SMTP id nx9mr1661227pbb.2.1331110812975;
Wed, 07 Mar 2012 01:00:12 -0800 (PST)
Path: h9ni49077pbe.0!nntp.google.com!news2.google.com!postnews.google.com!
l16g2000vbl.googlegroups.com!not-for-mail
From: kally jhons <kally.jhons888@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Dade Construction Work
Date: Wed, 7 Mar 2012 00:20:58 -0800 (PST)
Organization: http://groups.google.com
Lines: 9
Message-ID: <297ab28c-844e-4498-97c1-fcc46e0e1d47@l16g2000vbl.googlegroups.com>
NNTP-Posting-Host: 182.178.176.236
Mime-Version: 1.0
X-Trace: posting.google.com 1331110812 2267 127.0.0.1 (7 Mar 2012 09:00:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 7 Mar 2012 09:00:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l16g2000vbl.googlegroups.com; posting-host=182.178.176.236;
posting-account=5oGuNgoAAABG6diMWOuTWxHkKSZ3CFzo
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:9.0.1) Gecko/20100101 Firefox/
9.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

Dade Construction Work is the company which constructs according to
your desires. This company works according to the directions given to
it. You can feel free to direct and make your dreams come true by
choosing it.
For more details visits: http://www.rodericllc.com/

Best Regards:
Dade Construction Work
http://www.rodericllc.com/

From 2684060802710874955
X-Google-Thread: fc2a5,f8fd8ff73df67026,start

```
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.227.166 with SMTP id sb6mr3766927pbc.4.1331171248675;
        Wed, 07 Mar 2012 17:47:28 -0800 (PST)
Path: h9ni83pbe.0!nntp.google.com!news1.google.com!postnews.google.com!
gj7g2000pbc.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT SEXY VIDEOS CHECK IT FOR KISS PHOTOS
Date: Wed, 7 Mar 2012 17:34:21 -0800 (PST)
Organization: http://groups.google.com
Lines: 31
Message-ID: <5da417e3-20e2-4c3c-8ffd-c1872b95d7a9@gj7g2000pbc.googlegroups.com>
NNTP-Posting-Host: 117.199.244.202
Mime-Version: 1.0
X-Trace: posting.google.com 1331171245 9611 127.0.0.1 (8 Mar 2012 01:47:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Mar 2012 01:47:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: gj7g2000pbc.googlegroups.com; posting-host=117.199.244.202;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.in/

ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.in/2010/09/hot-lip-kiss-135.html

ALL JOBS SITES FREE SEE

http://jobstwo.blogspot.in/

HOT VIDEOS

http://hotvideotoou.blogspot.in/2011/01/kiss-videos.html

hot lip kiss
http://hotvidos.blogspot.in/2010/07/hot-lip-kiss.html
hot kisses

http://hotvidos.blogspot.in/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.in/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.in/2010/07/real-hot-videos.html

```
From 2419490109782502195
X-Google-Thread: fc2a5,f5c609082f540990,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.135.231 with SMTP id pv7mr5272384pbb.8.1331379303965;
        Sat, 10 Mar 2012 03:35:03 -0800 (PST)
Path: h9ni9868pbe.0!nntp.google.com!news2.google.com!postnews.google.com!
k6g2000vbz.googlegroups.com!not-for-mail
From: Michael <google@shadowstorm.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: How to measure high tube amplifier voltage
Date: Sat, 10 Mar 2012 02:56:31 -0800 (PST)
Organization: http://groups.google.com
Lines: 18
Message-ID: <daea3980-cc20-438f-b299-ef3a0ab42373@k6g2000vbz.googlegroups.com>
NNTP-Posting-Host: 98.124.108.37
Mime-Version: 1.0
X-Trace: posting.google.com 1331379303 8538 127.0.0.1 (10 Mar 2012 11:35:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 10 Mar 2012 11:35:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k6g2000vbz.googlegroups.com; posting-host=98.124.108.37; posting-
account=hIccaAoAAAAHJdWvuzHwqmpAxeZT9o96
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.0; en-US; rv:1.9.2.27)
 Gecko/20120216 Firefox/3.6.27 ( .NET CLR 3.5.30729; .NET4.0C),gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

Most multi-meters only measure voltages up to 1000 volts. How do you measure voltages often used with tubes like 3-500z or 3cx1500a7 tubes?   Will the range extended from Fluke listed below work with a 1000v 10 mega ohm multimeter?

80K-6 High Voltage Probe
http://www.fluke.com/fluke/usen/accessories/high-voltage-probes/80k-6.htm?PID=55358

The multimeter I have is the Radio Shack 22-801 which is rated for up to 1000 volts.

Radio Shack 22-801 owner's manual
http://www.radioshack.com/graphics/uc/rsk/Support/ProductManuals/2200801_PM_EN.pdf

Thanks

Michael

```
From -5286211103567175206
X-Google-Thread: fc2a5,f5c609082f540990
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.129.169 with SMTP id nx9mr5724252pbb.2.1331393048922;
        Sat, 10 Mar 2012 07:24:08 -0800 (PST)
MIME-Version: 1.0
Path: h9ni10474pbe.0!nntp.google.com!news2.google.com!news1.google.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 10 Mar 2012 09:24:08 -0600
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <daea3980-cc20-438f-b299-ef3a0ab42373@k6g2000vbz.googlegroups.com>
Subject: Re: How to measure high tube amplifier voltage
Date: Sat, 10 Mar 2012 09:24:07 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
Message-ID: <G8WdnZqAX6aF78bSnZ2dnUVZ_rednZ2d@giganews.com>
Lines: 31
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-ex0z7bUuIjVbwkqTzafj/O8ppj1px+CJYrORggJp8ACwv/
hBctEmm0X5vR4GYoLM9NWn4U79bPpJT2z!
X89S63JrM81XYqPWVV0yjqKOvJKWVwzcSuvUaob+KPc6jBQAFqeLslF5wROQhKDlThH9gp9F1d4=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2159
```

Michael wrote:

> Most multi-meters only measure voltages up to 1000 volts. How do you
> measure voltages often used with tubes like 3-500z or 3cx1500a7
> tubes?   Will the range extended from Fluke listed below work with a
> 1000v 10 mega ohm multimeter?
>
> 80K-6 High Voltage Probe
> http://www.fluke.com/fluke/usen/accessories/high-voltage-probes/80k-6.htm?PID=55358
>
> The multimeter I have is the Radio Shack 22-801 which is rated for up
> to 1000 volts.
>

> Radio Shack 22-801 owner's manual
> http://www.radioshack.com/graphics/uc/rsk/Support/ProductManuals/
2200801_PM_EN.pdf
>
> Thanks
>
> Michael

Yes, the probe will work with your multimeter. The probe description says
that it will work with any multimeter that has a 10 Megohm input impedance.
Your multimeter manual says that it has a 10 Megohm input impedance on DC
and AC functions.

--
Dave M
A woman has the last word in any argument. Anything a man says after
that is the beginning of a new argument.

From -1061519586788422790
X-Google-Thread: fc2a5,ff6a138c12d5b781,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.227.166 with SMTP id sb6mr9236178pbc.4.1331516456862;
        Sun, 11 Mar 2012 18:40:56 -0700 (PDT)
Path: h9ni15813pbe.0!nntp.google.com!news2.google.com!postnews.google.com!
y4g2000pbt.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Free: SN75161AN ICs
Date: Sun, 11 Mar 2012 18:40:56 -0700 (PDT)
Organization: http://groups.google.com
Lines: 10
Message-ID: <e7fe2ef0-4249-431f-9953-3f0b93615681@y4g2000pbt.googlegroups.com>
NNTP-Posting-Host: 50.46.189.195
Mime-Version: 1.0
X-Trace: posting.google.com 1331516456 24991 127.0.0.1 (12 Mar 2012 01:40:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 12 Mar 2012 01:40:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y4g2000pbt.googlegroups.com; posting-host=50.46.189.195; posting-
account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:10.0.2) Gecko/20100101 Firefox/
10.0.2,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

I have a couple SN75161AN GPIB (HP-IB) bus transceivers that I'll post
to the first person who wants/claims them, to save them from the

trash... These are unused HP surplus parts, in conductive foam.

(I'm also liable to soon have a bunch more DIP-packaged logic
available. Anyone out there still use this stuff? It's still fine
for playing with, but I just don't see myself doing anything with it.)

Cheers,
Tom

From -6306228783311220192
X-Google-Thread: fc2a5,c320daf9df73b26c,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.235.4 with SMTP id ui4mr252261pbc.3.1331671399815;
Tue, 13 Mar 2012 13:43:19 -0700 (PDT)
Path: h9ni22589pbe.0!nntp.google.com!news1.google.com!postnews.google.com!
gj7g2000pbc.googlegroups.com!not-for-mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: MESMERIZING HOT PHOTOS & VIDEOS
Date: Tue, 13 Mar 2012 13:35:25 -0700 (PDT)
Organization: http://groups.google.com
Lines: 53
Message-ID: <5945e456-dbb7-45a8-b147-dc9b881a9eb6@gj7g2000pbc.googlegroups.com>
NNTP-Posting-Host: 117.199.240.183
Mime-Version: 1.0
X-Trace: posting.google.com 1331671399 31064 127.0.0.1 (13 Mar 2012 20:43:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 13 Mar 2012 20:43:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: gj7g2000pbc.googlegroups.com; posting-host=117.199.240.183;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:10.0.2) Gecko/20100101 Firefox/
10.0.2,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

TOP DATING TIPS TO ENCOURAGE WOMEN FOR DATING
http://datingsitesdatingtips.blogspot.in/

HOT LINKS FOR YOUTH ONLY

NAYANTHARA HOT WALLPAPERS
http://actressimages-9.blogspot.in/2012/01/nayanthara.html
ANU SMRUTHI LATEST HOT STILLS
http://actressimages-9.blogspot.in/2012/02/anu-smirthi-stills.html
AISHWARYA RAI LATEST HOT PICS
http://actressimages-9.blogspot.in/2012/01/aishwarya-rai.html
KATRINA KAIF HOT MAGAZINES PHOTOS
http://actressimages-9.blogspot.in/2012/01/katrina-kaif-magazine-photos.html
TRISHA HOT BEAUTIFUL IMAGES

```
http://actressimages-9.blogspot.in/2012/01/trisha-krishnan.html
               HOT MALLIKA SHERAWAT PHOTOS
http://actressimages-9.blogspot.in/2012/01/mallika-sherawat.html

       FOR  LATEST MOVIE UPDATED LINKS
         NUVVA NENA MOVIE LATEST GALLERY
http://actressgallery-kalyani.blogspot.in/2012/03/nuvva-nena-movie-stills.html
         Yadartha Prema Katha Movie Latest stills
http://actressgallery-kalyani.blogspot.in/2012/03/yadartha-prema-katha-movie-
stills.html
         RACHA MOVIE LATEST STILLS
http://actressgallery-kalyani.blogspot.com/2012/03/racha-movie-stills.html
    KAJAL HOT IN  BINAMI  VELAKOTLU MOVIE
http://actressgallery-kalyani.blogspot.com/2012/03/binami-velakotlu-movie-
stills.html
          ADHINAYAKUDU MOVIE LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.in/2012/03/adhinayakudu-movie-stills.html
       Bhale Tammudu Movie Hot Latest Stills
http://actressgallery-kalyani.blogspot.in/2012/03/bhale-thammudu-movie-stills.html
 TAMANNA RAM  Endukante Premante Movie Latest Stills
http://actressgallery-kalyani.blogspot.com/2012/03/endukante-premanta-movie-
stills.html
   LOVELY MOVIE LATEST ROMANTIC STILLS
http://actressgallery-kalyani.blogspot.in/2011/12/lovely-movie-stills.html
           ILEANA LATEST HOT PHOTOSHOOT
http://actressgallery-kalyani.blogspot.in/2012/01/ileana-latest-stills.html
           ACTREESS SUPRIYA SHAILJA LATEST  STILLS
http://actressgallery-kalyani.blogspot.in/2012/02/supriya-shailja-stills.html
               SHEELA LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.com/2012/01/sheela-latest-stills.html
        KATRINA KAIF ITEM SONG STILLS
http://actressgallery-kalyani.blogspot.com/2012/01/katrina-kaif-item-song-
stills.html
              RITU KAUR LATEST PHOTO STILLS
http://actressgallery-kalyani.blogspot.com/2012/01/ritu-kaur-stills.html
      SHRUTI HASSAN HOT IN 3 MOVIE
http://actressgallery-kalyani.blogspot.com/2011/11/shruti-hassan-in-3-movie.html
   HOT KATRINA KAIF PHOTOS
http://actressgallery-kalyani.blogspot.com/2011/09/katrina-kaif.html
           AISHWARYA RAI HOT HQ PHOTO STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/aishwarya-rai.html
           ASIN HOT PHOTO GALLERY
http://actressgallery-kalyani.blogspot.com/2011/09/asin.html


From 5034104824644225782
X-Google-Thread: fc2a5,7589e08a8b264259,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.129.169 with SMTP id nx9mr1561989pbb.2.1331704199701;
        Tue, 13 Mar 2012 22:49:59 -0700 (PDT)
Path: h9ni24028pbe.0!nntp.google.com!news2.google.com!postnews.google.com!
```

```
wb9g2000pbc.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: BEST 10 HOT SEXY VIDEOS AND MASALA KISS PHOTOS
Date: Tue, 13 Mar 2012 22:49:59 -0700 (PDT)
Organization: http://groups.google.com
Lines: 29
Message-ID: <c00a4aa4-c990-4b36-9e39-02ab59db3fab@wb9g2000pbc.googlegroups.com>
NNTP-Posting-Host: 117.213.131.21
Mime-Version: 1.0
X-Trace: posting.google.com 1331704199 12928 127.0.0.1 (14 Mar 2012 05:49:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 14 Mar 2012 05:49:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: wb9g2000pbc.googlegroups.com; posting-host=117.213.131.21;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

 A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.in/


             ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.in/2010/09/hot-lip-kiss-135.html

               ALL  JOBS   SITES FREE SEE

http://jobstwo.blogspot.in/



HOT VIDEOS

http://hotvideotoou.blogspot.in/2011/01/kiss-videos.html



hot lip kiss
http://hotvidos.blogspot.in/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.in/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.in/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.in/2010/07/real-hot-videos.html


From -268930158960197856
```

X-Google-Thread: fc2a5,c864e58e6030345b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.133.213 with SMTP id g21mr475902bkt.3.1331766264447;
        Wed, 14 Mar 2012 16:04:24 -0700 (PDT)
MIME-Version: 1.0
Path: h15ni1078bkw.0!nntp.google.com!news1.google.com!goblin3!gin-ad1-unet1.teleglobe.net!goblin1!goblin2!goblin.stu.neva.ru!feeder3.cambriumusenet.nl!feed.tweaknews.nl!209.197.12.246.MISMATCH!nx02.iad01.newshosting.com!newshosting.com!216.196.98.146.MISMATCH!border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 14 Mar 2012 18:04:20 -0500
From: Richief <Richief.9a6db78@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: TS-118A/ap
Date: Wed, 14 Mar 2012 20:20:50 +0000
Message-ID: <Richief.9a6db78@radiobanter.com>
Organization: RadioBanter.com
Lines: 16
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-rQbR+F1moaArBe8e4YYt9VDROIyGScFRVUXzLimWoeG4Sv1/33CLRAWf+bUZSV5L1n2v5JgPErAcixA!XtAt9GFxXpmF7f9afGgwCvyZ7ayRHOj1NtU+0/QVjh3GRa03BOdmb/U+1x4MJlpv68Wr+2MuTitE!PRxiWA==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Lines: 7
X-Original-Bytes: 1256

Hi All:
Just picked up a TS-118A/AP Wattmeter. I'm missing the MX 1785/U, the MX-1782/U, the tuning shunt MX-1784/U and the chart for the chart for the MX-1781 and MX-1785 elements. Does anyone know where I can get these elements? and can anyone send me a copy of the charts?

Thanks in advance.
Richief

e-mail richief@optonline.net

--
Richief

```
From 31666009524340940
X-Google-Thread: fc2a5,c864e58e6030345b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.129.169 with SMTP id nx9mr215405pbb.2.1331773356678;
        Wed, 14 Mar 2012 18:02:36 -0700 (PDT)
MIME-Version: 1.0
Path: h9ni27071pbe.0!nntp.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 14 Mar 2012 20:02:36 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Richief.9a6db78@radiobanter.com>
Subject: Re: TS-118A/ap
Date: Wed, 14 Mar 2012 20:02:35 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
Message-ID: <NaKdnRbiSsAxovzSnZ2dnUVZ_vednZ2d@giganews.com>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
efbCLguTAhksdWrUPdqAu2MOBjnNXdCo375e+b2YCX9ypoSL+vGN2b+6mMh3MsqWYg8R6xwuzfsdpmP!
SJyZBK+jVVekudmuH0AV+gF1DTkNdyqgIje/x33mfWWfQjCTJKEOuoeP5UttyFF2R1JNIa97pDI=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1769
```

Richief wrote:

> Hi All:
> Just picked up a TS-118A/AP Wattmeter. I'm missing the MX 1785/U, the
> MX-1782/U, the tuning shunt MX-1784/U and the chart for the chart for
> the MX-1781 and MX-1785 elements. Does anyone know where I can get
> these elements? and can anyone send me a copy of the charts?
>
> Thanks in advance.
> Richief
>
> e-mail richief@optonline.net

Go to the BAMA mirror site at
http://bama.edebris.com/manuals/military/ts118/ and download the DJVU manual
for the TS118A. It has the charts that you're looking for.

--
Dave M
A woman has the last word in any argument. Anything a man says after
that is the beginning of a new argument.

```
From 6299750898855116467
X-Google-Thread: fc2a5,4652bd177655f42c,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.230.165 with SMTP id sz5mr3432699pbc.1.1331852628228;
        Thu, 15 Mar 2012 16:03:48 -0700 (PDT)
MIME-Version: 1.0
Path: h9ni30528pbe.0!nntp.google.com!news2.google.com!goblin3!gin-ad1-
unet1.teleglobe.net!goblin1!goblin2!goblin.stu.neva.ru!feed.news.qwest.net!mpls-
nntp-05.inet.qwest.net!news-out.readnews.com!transit3.readnews.com!
nx02.iad01.newshosting.com!newshosting.com!69.16.185.11.MISMATCH!
npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!border3.nntp.dca.giganews.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 15 Mar 2012 18:03:46 -0500
From: Mohsenerfan <Mohsenerfan.9a82cf8@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: NE612 beginner
Date: Thu, 15 Mar 2012 19:21:58 +0000
Message-ID: <Mohsenerfan.9a82cf8@radiobanter.com>
Organization: RadioBanter.com
Lines: 19
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
J351bITw4L9pPwrSXSeE7Y9LdqFAvpB06yIvNknen289h+0k36H7iV94uWssPtsFBhutBbo2krBLo3l!
Y5SbENgiybuwWd+2hmzaa3ndJ+GsFqZpFCujdMOyGJByYTMA9zh+7w1/hz246U8GlUcef1Cmsepj!
KlGt8zvhWak=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 4
X-Original-Bytes: 1640
X-Received-Bytes: 1803
```

I am very new in electronic circuits and I am using NE612 as a frequency mixer. In the datasheet a sample circuit for this purpose is shown. Nevertheless, it is for 45 MHz. There are some capacitors and inducers shown in the circuit diagram. However, I need to use some other frequencies as well. I was wondering if the values of capacitance and inductance which are shown in the datasheet should be changed for

frequencies other than 45 MHz. I am not using it in radio applications,
so I only need to have the IF produced in the output. I am really
looking forward to hearing some help. If I have to change them, how
should I measure them?
Thanks a lot for all helps
Best regards
Mohsen Erfanzadeh

--
Mohsenerfan

```
From -5187675775084351737
X-Google-Thread: fc2a5,1981e280032c644e,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.131.75 with SMTP id w11mr754547bks.0.1332069697578;
        Sun, 18 Mar 2012 04:21:37 -0700 (PDT)
Path: h15ni18937bkw.0!nntp.google.com!news1.google.com!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Switching attenuator
Date: Sun, 18 Mar 2012 04:20:15 -0700 (PDT)
Organization: http://groups.google.com
Lines: 7
Message-ID: <15909891.3791.1332069615397.JavaMail.geo-discussion-forums@vbgu10>
NNTP-Posting-Host: 155.178.4.19
Mime-Version: 1.0
X-Trace: posting.google.com 1332069615 6453 127.0.0.1 (18 Mar 2012 11:20:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 18 Mar 2012 11:20:15 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=155.178.4.19;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
```

I am trying to design a circuit that will enable me to switch H pad attenua=
tors in and out of a line but just cant get my head wrapped around it. I ha=
ve come up with one method of doing it but it seems a little complicated. I=
 would greatly appreciate it if someone could direct me to a circuit diagra=
m.

Jimmie

```
From -2581053518419608600
```

X-Google-Thread: fc2a5,4652bd177655f42c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.212.201 with SMTP id nm9mr1648070pbc.1.1332071682211;
        Sun, 18 Mar 2012 04:54:42 -0700 (PDT)
Path: h9ni44998pbe.0!nntp.google.com!news1.google.com!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: NE612 beginner
Date: Sun, 18 Mar 2012 04:53:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 24
Message-ID: <1828038.3511.1332071602853.JavaMail.geo-discussion-forums@vbai14>
References: <Mohsenerfan.9a82cf8@radiobanter.com>
NNTP-Posting-Host: 155.178.4.19
Mime-Version: 1.0
X-Trace: posting.google.com 1332071603 26587 127.0.0.1 (18 Mar 2012 11:53:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 18 Mar 2012 11:53:23 +0000 (UTC)
In-Reply-To: <Mohsenerfan.9a82cf8@radiobanter.com>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=155.178.4.19;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
Content-Type: text/plain; charset=ISO-8859-1

On Thursday, March 15, 2012 3:21:58 PM UTC-4, Mohsenerfan wrote:
> I am very new in electronic circuits and I am using NE612 as a frequency
> mixer. In the datasheet a sample circuit for this purpose is shown.
> Nevertheless, it is for 45 MHz. There are some capacitors and inducers
> shown in the circuit diagram. However, I need to use some other
> frequencies as well. I was wondering if the values of capacitance and
> inductance which are shown in the datasheet should be changed for
> frequencies other than 45 MHz. I am not using it in radio applications,
> so I only need to have the IF produced in the output. I am really
> looking forward to hearing some help. If I have to change them, how
> should I measure them?
> Thanks a lot for all helps
> Best regards
> Mohsen Erfanzadeh
>
>
>
>
> --
> Mohsenerfan

I suggest you refer to the application notes for the device. This will probably be your best source of information.

Jimmie

```
From 7838796233885023687
X-Google-Thread: fc2a5,f5c609082f540990
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.129.169 with SMTP id nx9mr11161860pbb.2.1332072558893;
        Sun, 18 Mar 2012 05:09:18 -0700 (PDT)
Path: h9ni45074pbe.0!nntp.google.com!news2.google.com!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to measure high tube amplifier voltage
Date: Sun, 18 Mar 2012 05:08:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <10824046.882.1332072515598.JavaMail.geo-discussion-forums@vbkc1>
References: <daea3980-cc20-438f-b299-ef3a0ab42373@k6g2000vbz.googlegroups.com>
NNTP-Posting-Host: 155.178.6.19
Mime-Version: 1.0
X-Trace: posting.google.com 1332072515 3313 127.0.0.1 (18 Mar 2012 12:08:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 18 Mar 2012 12:08:35 +0000 (UTC)
In-Reply-To: <daea3980-cc20-438f-b299-ef3a0ab42373@k6g2000vbz.googlegroups.com>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=155.178.6.19;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

On Saturday, March 10, 2012 5:56:31 AM UTC-5, Michael wrote:
> Most multi-meters only measure voltages up to 1000 volts.  How do you
> measure voltages often used with tubes like 3-500z or 3cx1500a7
> tubes?   Will the range extended from Fluke listed below work with a
> 1000v 10 mega ohm multimeter?
>=20
> 80K-6 High Voltage Probe
> http://www.fluke.com/fluke/usen/accessories/high-voltage-probes/80k-6.htm=
?PID=3D55358
>=20
> The multimeter I have is the Radio Shack 22-801 which is rated for up
> to 1000 volts.
>=20
> Radio Shack 22-801 owner's manual
> http://www.radioshack.com/graphics/uc/rsk/Support/ProductManuals/2200801_=
PM_EN.pdf
>=20
> Thanks
>=20
> Michael
```

DO THIS WITH EXTREME CAUTION. Knowing the input resistance of the meter it =
is easy to use a series resistance to scale the input voltage. I have inser=
ted 11M
in the front end of my 11M input impedance meter to make a 2X voltage divid=
er. I connected the meter to the circuit, placed it in a Pyrex baking dish =
for insulation, stood at a distance and energize the power supply. I used s=
everal HV resistors removed from an old TV because I figured there was a da=
nger of arc over using common resistors. I was truly surprise the meter did=
nt melt down annd the house main breaker didnt trip.

Jimmie

```
From -2656715249090897816
X-Google-Thread: fc2a5,1981e280032c644e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.74.201 with SMTP id w9mr11360636pbv.0.1332079539273;
        Sun, 18 Mar 2012 07:05:39 -0700 (PDT)
Path: h9ni45652pbe.0!nntp.google.com!news1.google.com!news2.google.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!nntp.earthlink.com!news.earthlink.com.POSTED!not-for-
mail
NNTP-Posting-Date: Sun, 18 Mar 2012 09:05:38 -0500
Date: Sun, 18 Mar 2012 07:05:38 -0700
From: dave <dave@dave.dave>
User-Agent: Mozilla/5.0 (X11; Linux i686; rv:10.0.2) Gecko/20120216 Thunderbird/
10.0.2
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching attenuator
References: <15909891.3791.1332069615397.JavaMail.geo-discussion-forums@vbgu10>
In-Reply-To: <15909891.3791.1332069615397.JavaMail.geo-discussion-forums@vbgu10>
Message-ID: <eq6dnVwKTYYvdvjSnZ2dnUVZ_vWdnZ2d@earthlink.com>
Lines: 6
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.171.148.163
X-Trace: sv3-2Pk8lR9jKPbasERLTrtxwWni3ik/U8QzXFqnTHU1lBGAeQ5ND4rPyd6X39Dc8l4YDLu/
z9IWW23ZrUU!
qIPtQbflFoi9TM1RHg294DuW7B3lJAdxDawDNWYyz6hnIIGKriT1qUGHi4UvKkJg3X7hBJBGs0ow!
e155dovnoJAclkEGjcweNjuXln2bzXug2mc=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1621
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 03/18/2012 04:20 AM, JIMMIE wrote:
> I am trying to design a circuit that will enable me to switch H pad attenuators
in and out of a line but just cant get my head wrapped around it. I have come up

with one method of doing it but it seems a little complicated. I would greatly appreciate it if someone could direct me to a circuit diagram.
>
> Jimmie

Bridge the pad with a DPST switch or relay. Switch "on" pad "off".

```
From 6129095675250121850
X-Google-Thread: fc2a5,4652bd177655f42c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.74.201 with SMTP id w9mr11364750pbv.0.1332079679693;
        Sun, 18 Mar 2012 07:07:59 -0700 (PDT)
Path: h9ni45664pbe.0!nntp.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 18 Mar 2012 09:07:58 -0500
Date: Sun, 18 Mar 2012 07:07:58 -0700
From: dave <dave@dave.dave>
User-Agent: Mozilla/5.0 (X11; Linux i686; rv:10.0.2) Gecko/20120216 Thunderbird/
10.0.2
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: NE612 beginner
References: <Mohsenerfan.9a82cf8@radiobanter.com>
<1828038.3511.1332071602853.JavaMail.geo-discussion-forums@vbai14>
In-Reply-To: <1828038.3511.1332071602853.JavaMail.geo-discussion-forums@vbai14>
Message-ID: <eq6dnV8KTYajcfjSnZ2dnUVZ_vWdnZ2d@earthlink.com>
Lines: 29
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.171.148.163
X-Trace: sv3-z0b/
y5V1Ydaiqz0gEF5WkIPeY0l1QNDj3ol4MDy6KoU+Tm2XUUL8enaXFmGGqV8hk2eoZCtORJG5v73!cn+hA/
pTXWU8TkOMWJGYsZlN2N6YCqqN+bVZBrG8ugEdr++IfLixCS6p+UJSubfDTf7l764T1zGu!
urKlYPsko09g8qQvdewBYfndRiLr6/m+Ygs=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2341
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 03/18/2012 04:53 AM, JIMMIE wrote:
> On Thursday, March 15, 2012 3:21:58 PM UTC-4, Mohsenerfan wrote:
>> I am very new in electronic circuits and I am using NE612 as a frequency
>> mixer. In the datasheet a sample circuit for this purpose is shown.
>> Nevertheless, it is for 45 MHz. There are some capacitors and inducers
>> shown in the circuit diagram. However, I need to use some other
>> frequencies as well. I was wondering if the values of capacitance and
>> inductance which are shown in the datasheet should be changed for

>> frequencies other than 45 MHz. I am not using it in radio applications,
>> so I only need to have the IF produced in the output. I am really
>> looking forward to hearing some help. If I have to change them, how
>> should I measure them?
>> Thanks a lot for all helps
>> Best regards
>> Mohsen Erfanzadeh
>>
>>
>>
>>
>> --
>> Mohsenerfan
>
> I suggest you refer to the application notes for the device. This will probably be your best source of information.
>
> Jimmie

Resonance is when X [sub] L = X [sub] C

The Smith Chart leaps to mind as well.

From 3697050954435331037
X-Google-Thread: fc2a5,6dd36bcc0e319b5c,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.212.201 with SMTP id nm9mr1950379pbc.1.1332081997682;
        Sun, 18 Mar 2012 07:46:37 -0700 (PDT)
Path: h9ni45850pbe.0!nntp.google.com!news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!feeder.erje.net!newsfeed.datemas.de!news.datemas.de!not-for-mail
From: Warren <warrens@ns.DOT.sympatico.DOT.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: 1kW - 6 meter / 2 meter amplifier modules for sale
Date: Sun, 18 Mar 2012 11:46:52 -0300
Organization: Datemas.de http://www.news.datemas.de
Lines: 28
Message-ID: <jk4sgd$3ro$1@news.datemas.de>
Reply-To: warrens@ns.DOT.sympatico.DOT.ca
Mime-Version: 1.0
X-Trace: news.datemas.de apGKaUq0LZ3LR6bVmN52K2TXKc6bCaVBblV5TqJyKiwKJ0eXUUhXCGczQW1wY8EjzbVm3NpdbBu+49aeQX/6/hQAZy0XBkXLu6nD6Cp65pyKJ8FVBA0Xhu69Mcns0iF+M/6o6Isb26XxXU1Xgn1VWsyC4E3nJvnkFH1zC4VsWYw=
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Sun, 18 Mar 2012 14:46:37 +0000 (UTC)
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.8) Gecko/20100205 SeaMonkey/2.0.3
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

I have several 1kW Larcan television transmitter modules available.
These are "low-split" modules and do not require modification for
6-meters. They will also cover the 70MHz / 4-meter band with no changes.

A full write up and pictures are available at
http://www.gemoto.com/LarcanPA.htm
(Note: This is NOT my web page and is supplied for information purposes
only)

With some work, these amplifiers will produce well over 1kW on 2 meters.

RF input and DC input connectors are included. Other parts such as DC
power supply 50V @ 50A, RF coaxial relays, cooling fans, etc are needed
to get operational. Some assembly required.

Packaged weight is about 20kg / 44 pounds. The amplifier module itself
weighs about 14kg / 31 pounds.

Price is $370 plus packing and shipping from Nova Scotia, Canada. Total
cost approx $455 - $485 throughout the USA. Proceeds of the sale go
towards my local club. PayPal preferred.

Further information, pictures, etc available on my web page.
http://members.rennlist.org/warren/6meteramp.html

Also posted on QRZ.com
http://forums.qrz.com/showthread.php?338523-1kW-6M-2M-amplifier-modules

```
From 3512384198012835213
X-Google-Thread: 241b302a50,f5c609082f540990
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.241.194 with SMTP id wk2mr8283838pbc.8.1332090996660;
        Sun, 18 Mar 2012 10:16:36 -0700 (PDT)
Path: kz5ni99pbc.0!nntp.google.com!news1.google.com!news.glorb.com!de-l.enfer-du-
nord.net!feeder2.enfer-du-nord.net!eternal-september.org!feeder.eternal-
september.org!mx04.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to measure high tube amplifier voltage
Date: Sun, 18 Mar 2012 13:14:51 -0400
Organization: A noiseless patient Spider
Lines: 37
Message-ID: <jk556s$pn3$1@dont-email.me>
References: <daea3980-cc20-438f-b299-ef3a0ab42373@k6g2000vbz.googlegroups.com>
Mime-Version: 1.0
Injection-Date: Sun, 18 Mar 2012 17:15:08 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="0kiWib50n8nTQ9eK4ZSa7A";
     logging-data="26339"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+2XmapiOc08PmE/wUu5SBaM20RYMwfsu0="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.27) Gecko/20120216
Thunderbird/3.1.19
In-Reply-To: <daea3980-cc20-438f-b299-ef3a0ab42373@k6g2000vbz.googlegroups.com>
Cancel-Lock: sha1:QLDfo735m9TBZrA27Fj9WcI9Syw=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 03/10/2012 05:56 AM, Michael wrote:
>
> Most multi-meters only measure voltages up to 1000 volts.  How do you
> measure voltages often used with tubes like 3-500z or 3cx1500a7
> tubes?   Will the range extended from Fluke listed below work with a
> 1000v 10 mega ohm multimeter?
>
> 80K-6 High Voltage Probe
> http://www.fluke.com/fluke/usen/accessories/high-voltage-probes/80k-6.htm?
PID=55358
>
> The multimeter I have is the Radio Shack 22-801 which is rated for up
> to 1000 volts.
>
> Radio Shack 22-801 owner's manual
> http://www.radioshack.com/graphics/uc/rsk/Support/ProductManuals/
2200801_PM_EN.pdf
>
> Thanks
>
> Michael
I actually built a HV meter for an amplifier project years ago using a
surplus 0-1ma panel meter and a string of 10 meg ohm resistors.  The
resistors were 1/2 W 5% and the entire string was covered with two
layers of heat shrink tubing for insulation (heated to shrink it around
the resistor string).  I hand selected the resistors measuring their
value with my Fluke mutimeter so I actually had an accuracy better than
5% in the multiplier chain.   The panel meter I used was intended to be
inserted into a HV circuit so the case was insulated to withstand the
voltage with the meter panel mounted.   While I connected the meter
across the full plate supply voltage, if you are using series connected
capacitors in your plate supply (with divider resistors across each cap)
you can connect your voltmeter 'tapped down' on the divider chain and
multiply the reading by the divider ratio.  This will be safer than
measuring the full voltage directly, but you will lose some accuracy
depending on the tolerance of the divider/bleeder resistors across the
capacitors.  In most cases you don't need to know the plate voltage to
better than 5% anyway.



From 8625958934003007093
X-Google-Thread: fc2a5,4652bd177655f42c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.232.169 with SMTP id tp9mr7277948pbc.6.1332111936695;
        Sun, 18 Mar 2012 16:05:36 -0700 (PDT)
MIME-Version: 1.0
Path: kz5ni1869pbc.0!nntp.google.com!news1.google.com!news2.google.com!
newsfeed2.dallas1.level3.net!news.level3.com!bloom-beacon.mit.edu!npeer.de.kpn-
eurorings.net!npeer-ng0.de.kpn-eurorings.net!news.glorb.com!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 18 Mar 2012 18:04:25 -0500
From: Mohsenerfan <Mohsenerfan.9ac2179@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: NE612 beginner
Date: Sun, 18 Mar 2012 17:54:38 +0000
Message-ID: <Mohsenerfan.9ac2179@radiobanter.com>
Organization: RadioBanter.com
References: <Mohsenerfan.9a82cf8@radiobanter.com>
<1828038.3511.1332071602853.JavaMail.geo-discussion-forums@vbai14>
Lines: 10
X-Usenet-Provider: http://www.giganews.com
X-Trace:
sv3-1PWtiQIrGSOMwFD4NW2ySV+ceFLd8sEAd6nIW0g+yRRN8bHrmCM0FjBRSmgxRwIycldHMJBV2qYl4I
P!J4McfQlCQFvavs6MUu29wWrVLRiPdPD7x7UmJCjVc/ohleYpBN21clkWRSlIYEpTQ4lMSZGkbWkw!
E0hbL0kG2Mk=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 2
X-Original-Bytes: 1234
```

Thanks a lot Jimmie, I am exactly trying to learn what I have to do
with. I suppose I should learn more about LC filters and oscillator
stabilizers. Am I right?
Thanks again.

--
Mohsenerfan

```
From 154129614372650223
X-Google-Thread: fc2a5,f5c609082f540990
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.205.123.6 with SMTP id gi6mr1293457bkc.5.1332196573368;
        Mon, 19 Mar 2012 15:36:13 -0700 (PDT)
```

```
Path: h15ni26439bkw.0!nntp.google.com!news2.google.com!goblin2!goblin.stu.neva.ru!
newsfeed1.swip.net!85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-
september.org!mx04.eternal-september.org!.POSTED!not-for-mail
From: highlandham <highlandham.nospam@rfburns.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to measure high tube amplifier voltage
Date: Mon, 19 Mar 2012 22:36:11 +0000
Organization: A noiseless patient Spider
Lines: 59
Message-ID: <jk8ccs$c3$1@dont-email.me>
References: <daea3980-cc20-438f-b299-ef3a0ab42373@k6g2000vbz.googlegroups.com>
<jk556s$pn3$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Mon, 19 Mar 2012 22:36:12 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="Qd3bvMjqovYUms5mx+4s9A";
     logging-data="387"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19W27HohOOx6qZnThMlGCTpMErVAzP3UuI="
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:10.0.2) Gecko/20120216 Thunderbird/
10.0.2
In-Reply-To: <jk556s$pn3$1@dont-email.me>
Cancel-Lock: sha1:jPafW3mc55cCuOnP3buaDsvRgh8=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit

On 18/03/12 17:14, Kenneth Scharf wrote:
> On 03/10/2012 05:56 AM, Michael wrote:
>>
>> Most multi-meters only measure voltages up to 1000 volts. How do you
>> measure voltages often used with tubes like 3-500z or 3cx1500a7
>> tubes? Will the range extended from Fluke listed below work with a
>> 1000v 10 mega ohm multimeter?
>>
>> 80K-6 High Voltage Probe
>> http://www.fluke.com/fluke/usen/accessories/high-voltage-probes/80k-6.htm?
PID=55358
>>
>>
>> The multimeter I have is the Radio Shack 22-801 which is rated for up
>> to 1000 volts.
>>
>> Radio Shack 22-801 owner's manual
>> http://www.radioshack.com/graphics/uc/rsk/Support/ProductManuals/
2200801_PM_EN.pdf
>>
>>
>> Thanks
>>
>> Michael
> I actually built a HV meter for an amplifier project years ago using a
> surplus 0-1ma panel meter and a string of 10 meg ohm resistors. The
> resistors were 1/2 W 5% and the entire string was covered with two
> layers of heat shrink tubing for insulation (heated to shrink it around
> the resistor string). I hand selected the resistors measuring their
```

> value with my Fluke mutimeter so I actually had an accuracy better than
> 5% in the multiplier chain. The panel meter I used was intended to be
> inserted into a HV circuit so the case was insulated to withstand the
> voltage with the meter panel mounted. While I connected the meter across
> the full plate supply voltage, if you are using series connected
> capacitors in your plate supply (with divider resistors across each cap)
> you can connect your voltmeter 'tapped down' on the divider chain and
> multiply the reading by the divider ratio. This will be safer than
> measuring the full voltage directly, but you will lose some accuracy
> depending on the tolerance of the divider/bleeder resistors across the
> capacitors. In most cases you don't need to know the plate voltage to
> better than 5% anyway.
>

=======================
Perhaps it is useful to mention that non-HV resistors should not be
�exposed� to more than 500 V , meaning that for a measuring range of for
example 5000 V any string should have not less than 10 resistors
(whatever the resistance values required)
Personally I would tap a relatively low voltage from a loop string with
on the tap a ten-turn trimpot in series with a fixed resistor.
If the DVM would have a max range of 1000 V I would first by means of a
variac adjust the PSU�s output to 1000 V ,directly measured with the
DVM . Thereafter with the string in place I would connect the DVM to the
tap and adjust the ten-turn trimpot for the correct multiplication
factor with the DVM range set at a range lower than 1000V . The ten-turn
trimpot would be exposed to a low voltage differential and serve only
for fine adjustment. All this would result in a measuring uncertainty
of better than 5%.(assuming the DVM has a measuring uncertainty equal or
better than 2%)

Frank   GM0CSZ / KN6WH

```
From -4991935177348935650
X-Google-Thread: fc2a5,4652bd177655f42c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.235.4 with SMTP id ui4mr15659426pbc.3.1332197794442;
        Mon, 19 Mar 2012 15:56:34 -0700 (PDT)
MIME-Version: 1.0
Path: kz5ni9057pbc.0!nntp.google.com!news1.google.com!goblin3!goblin1!
goblin.stu.neva.ru!hq-usenetpeers.eweka.nl!81.171.88.15.MISMATCH!eweka.nl!
lightspeed.eweka.nl!69.16.177.254.MISMATCH!cyclone01.ams2.highwinds-media.com!
news.highwinds-media.com!voer-me.highwinds-media.com!npeersf01.ams.highwinds-
media.com!newsfe11.ams2.POSTED!00000000!not-for-mail
Reply-To: "Angelos Epithemiou" <Angelos @shootingstars.com>
From: "Angelos Epithemiou" <Angelos @shootingstars.com>
Newsgroups: rec.radio.amateur.homebrew
References: <Mohsenerfan.9a82cf8@radiobanter.com>
<1828038.3511.1332071602853.JavaMail.geo-discussion-forums@vbai14>
<Mohsenerfan.9ac2179@radiobanter.com>
```

```
Subject: Re: NE612 beginner
Lines: 5
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
Message-ID: <BQO9r.5552$TG1.284@newsfe11.ams2>
NNTP-Posting-Host: 82.2.120.50
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe11.ams2 1332197793 82.2.120.50 (Mon, 19 Mar 2012 22:56:33 UTC)
NNTP-Posting-Date: Mon, 19 Mar 2012 22:56:33 UTC
Organization: virginmedia.com
Date: Mon, 19 Mar 2012 22:56:26 -0000
X-Received-Bytes: 1078

                 1
  F =  --------------
           2*PI*(L*C)
```

```
From 3871931415789419255
X-Google-Thread: 241b302a50,4652bd177655f42c
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.125.233 with SMTP id mt9mr13983759pbb.5.1332202486674;
        Mon, 19 Mar 2012 17:14:46 -0700 (PDT)
Path: kz5ni9433pbc.0!nntp.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 Mar 2012 19:13:23 -0500
Date: Tue, 20 Mar 2012 00:13:23 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows NT 5.0; rv:10.0.2) Gecko/20120216 Thunderbird/
10.0.2
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: NE612 beginner
References: <Mohsenerfan.9a82cf8@radiobanter.com>
<1828038.3511.1332071602853.JavaMail.geo-discussion-forums@vbai14>
<Mohsenerfan.9ac2179@radiobanter.com> <BQO9r.5552$TG1.284@newsfe11.ams2>
In-Reply-To: <BQO9r.5552$TG1.284@newsfe11.ams2>
Message-ID: <kqOdnVF-iMw-VvrSnZ2dnUVZ_qOdnZ2d@bright.net>
Lines: 11
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
Q2PdWvGV9saEJpTPNlrZUJgATZYYJFvvStk6Gy1REtLWlLLVEaTBKIx+bINFz0PeXOagICgYcMGQiot!
J3gFupOG0bfiLzteYy6L4iBKZnWRQaQKUrPWeI5yTIcUwSN3/IwWwJer50IlbzhkIZBoTJWeHUtt!8Jp/
7xnPGQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1456
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 3-19-2012 22:56, Angelos Epithemiou wrote:
>                    1
>    F =  --------------
>             2*PI*(L*C)
>
>

Actually, it's the square root of (L*C) in the denominator of the above...




From 2864477350508312188
X-Google-Thread: 241b302a50,7636189e5408eb31,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.150.90 with SMTP id x26mr1281303bkv.6.1332500005454;
        Fri, 23 Mar 2012 03:53:25 -0700 (PDT)
Path: h15ni39667bkw.0!nntp.google.com!news2.google.com!postnews.google.com!
to5g2000pbc.googlegroups.com!not-for-mail
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT SEX BED ROOM VIDEOS AND 200 BEST ACTRESSES PHOTOS
Date: Fri, 23 Mar 2012 03:29:32 -0700 (PDT)
Organization: http://groups.google.com
Lines: 41
Message-ID: <8a489092-85ab-4922-9ee9-f7a3453dff36@to5g2000pbc.googlegroups.com>
NNTP-Posting-Host: 117.199.253.6
Mime-Version: 1.0
X-Trace: posting.google.com 1332500005 1175 127.0.0.1 (23 Mar 2012 10:53:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 23 Mar 2012 10:53:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: to5g2000pbc.googlegroups.com; posting-host=117.199.253.6; posting-
account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

             hot videos

 real kiss videos
```

http://videos2youth.blogspot.in/2011/11/real-kiss-videos.html
first night hot videos
http://videos2youth.blogspot.in/2011/11/first-night-hot-videos.html
mallu hot videos
http://videos2youth.blogspot.in/2011/11/mallu-hot-videos.html
indian bedroom hot
http://videos2youth.blogspot.in/2011/11/indian-bedroom-hot.html
romantic videos
http://videos2youth.blogspot.in/2011/11/romantic-videos.html

HOT PHOTOS
lip kiss photos
http://photostwo2u.blogspot.in/2010/09/photos.html
bikini photos
http://photostwo2u.blogspot.in/2010/09/photos-2.html
SEXY PHOTOS
http://photostwo2u.blogspot.in/2010/09/photos-3.html
indian hot photos
http://photostwo2u.blogspot.in

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.in/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.in/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.in/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.in/2009/02/sql-server-interview-questions.html

From 6767009067587213885
X-Google-Thread: fc2a5,f3a74da4fc279875,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.205.123.6 with SMTP id gi6mr2611511bkc.5.1332854886281;
Tue, 27 Mar 2012 06:28:06 -0700 (PDT)
Path: h15ni55239bkw.0!nntp.google.com!news1.google.com!postnews.google.com!pz2g2000pbc.googlegroups.com!not-for-mail
From: saktheeswari k <ksaktheeswari94@gmail.com>
Newsgroups: rec.radio.amateur.homebrew

```
Subject: rec.radio.amateur.homebrew
Date: Tue, 27 Mar 2012 06:28:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 5
Message-ID: <8cddc416-b5bf-4f87-9e79-77775759e219@pz2g2000pbc.googlegroups.com>
NNTP-Posting-Host: 117.197.205.99
Mime-Version: 1.0
X-Trace: posting.google.com 1332854886 22673 127.0.0.1 (27 Mar 2012 13:28:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Mar 2012 13:28:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: pz2g2000pbc.googlegroups.com; posting-host=117.197.205.99;
posting-account=uhIerwkAAABdy2jbWgzrZUaw4XIwMS53
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1)
 Gecko/20090624 Firefox/3.5,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

Create special effects, animation, or other visual images using film,
video,
computers, or other electronic tools and media for use in products or
creations,
such ...http://123maza.com/46/glory248/



From -5555145607391335227
X-Google-Thread: fc2a5,9e4e0546575f0f9f,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,9e4e0546575f0f9f,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gida3e752f117,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.205.119.5 with SMTP id fs5mr278811bkc.7.1333260006331;
        Sat, 31 Mar 2012 23:00:06 -0700 (PDT)
MIME-Version: 1.0
Path: h15ni72729bkw.0!nntp.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!novia!news-out.readnews.com!
transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1330585201@panix.com>
Followup-To: poster
Date: 1 Apr 2012 02:00:02 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 04 May 2012 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1333260001@panix.com>
```

Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1333260002 12393 166.84.1.2 (1 Apr 2012 06:00:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 1 Apr 2012 06:00:02 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. After a successful trial |
period (90 days, through early July 2009), we decided to adopt this |
change permanently. |

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From 7541082377664748161
X-Google-Thread: fc2a5,4180e430784a4fbf,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.156.202 with SMTP id y10mr481936bkw.1.1333339553834;
        Sun, 01 Apr 2012 21:05:53 -0700 (PDT)
Path: h15ni76095bkw.0!nntp.google.com!news2.google.com!postnews.google.com!
pg6g2000pbb.googlegroups.com!not-for-mail
From: Lemon Tree <bitterlemon40@yahoo.ie>
Newsgroups: rec.radio.amateur.homebrew
Subject: Electrothermal squigging in a regenerative radio receiver.
Date: Sun, 1 Apr 2012 21:05:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 21
Message-ID: <3ed71a31-4c34-4188-ba43-6ee678477fa3@pg6g2000pbb.googlegroups.com>
NNTP-Posting-Host: 123.16.101.231
Mime-Version: 1.0
X-Trace: posting.google.com 1333339553 5619 127.0.0.1 (2 Apr 2012 04:05:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 2 Apr 2012 04:05:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: pg6g2000pbb.googlegroups.com; posting-host=123.16.101.231;
posting-account=7x6AcwoAAAANV7u8W0BE7ye1MHET79y6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; Linux i686; rv:2.0b7pre) Gecko/20101008
 Firefox/4.0b7pre SeaMonkey/2.1b1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

I am conducting ongoing experiments with regenerative radio receivers. One problem I have repeatedly encountered is low frequency squigging/motorboating. Particularly when using somewhat higher CE transistor currents. Oddly, changing the values of any of the capacitors in the circuit did not change the frequency of the squigging. There was nothing wrong with the decoupling and even adding additional decoupling capacitors had no effect. Almost certainly the unwanted low frequency oscillations are due to electrothermal effects.

Directing hot air from a hairdryer at the transistors for less that a second stopped the low frequency oscillation. After stopping the hairdryer the circuit started squigging again after a couple of seconds.

The fact that regenerative receivers are operated with the amount of positive feedback (regeneration) so close to the threshold of oscillation makes the extremely sensitive to the gain of the sustaining amplifier.

Even slight changes in the gain of the transistors (caused by self-heating or the environment) can then have a big effect. This is almost certainly the basis of the low frequency squigging in the circuit.

```
From 6051932200844480545
X-Google-Thread: fc2a5,1981e280032c644e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.235.4 with SMTP id ui4mr5384067pbc.3.1333345154729;
        Sun, 01 Apr 2012 22:39:14 -0700 (PDT)
Path: r9ni8927pbh.0!nntp.google.com!news2.google.com!postnews.google.com!
ur9g2000pbc.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching attenuator
Date: Sun, 1 Apr 2012 22:33:17 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <84bb7bc0-27e4-4b16-8271-202bb1113943@ur9g2000pbc.googlegroups.com>
References: <15909891.3791.1332069615397.JavaMail.geo-discussion-forums@vbgu10>
 <eq6dnVwKTYYvdvjSnZ2dnUVZ_vWdnZ2d@earthlink.com>
NNTP-Posting-Host: 50.46.189.195
Mime-Version: 1.0
X-Trace: posting.google.com 1333345154 31082 127.0.0.1 (2 Apr 2012 05:39:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 2 Apr 2012 05:39:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: ur9g2000pbc.googlegroups.com; posting-host=50.46.189.195; posting-
account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:11.0) Gecko/20100101 Firefox/
11.0,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
```

On Mar 18, 7:05=A0am, dave <d...@dave.dave> wrote:
> On 03/18/2012 04:20 AM, JIMMIE wrote:
>
> > I am trying to design a circuit that will enable me to switch H pad att=
enuators in and out of a line but just cant get my head wrapped around it. =
I have come up with one method of doing it but it seems a little complicate=
d. I would greatly appreciate it if someone could direct me to a circuit di=
agram.
>
> > Jimmie
>
> Bridge the pad with a DPST switch or relay. Switch "on" pad "off".

Errrrp. That leaves the pad in-circuit across the line...not good in most situations. Better if the switch also disconnects the pad from the line. You probably need a 4PDT switch: the four moveable contacts to the input and output lines, the four fixed contacts on one side to the four terminals of the pad, and the four fixed contacts on the other side wired so the line connects straight through. You can do it a bit more simply by bridging the pad with the DPST as suggested, but also adding a SPST that is N.O. if the DPST is N.C., with the SPST opening up the shunt path in the H-attenuator.

If you leave the H-pad in the circuit, bridging it with a DPST and not opening up the shunt path, assuming the pad is the same impedance as the line (=3DR in the following...), you shunt the line with 8.7*R for a 1dB pad (not terrible...), 2.9*R for a 3dB pad (not so good), and 0.95*R for a 10dB pad (pretty awful).

Cheers,
Tom

```
From -7722652718954377094
X-Google-Thread: fc2a5,9485fef5c9af8076,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.230.68 with SMTP id sw4mr2681607pbc.7.1333346008303;
        Sun, 01 Apr 2012 22:53:28 -0700 (PDT)
Path: r9ni8963pbh.0!nntp.google.com!news1.google.com!postnews.google.com!
oo9g2000pbc.googlegroups.com!not-for-mail
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT PEOPLE HOT AND SEXY VIDEOS FOR U SEE AND ENJOY
Date: Sun, 1 Apr 2012 22:51:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <3866c56a-04df-42c0-a676-48fb28c7adbe@oo9g2000pbc.googlegroups.com>
NNTP-Posting-Host: 117.213.129.40
Mime-Version: 1.0
X-Trace: posting.google.com 1333346008 7836 127.0.0.1 (2 Apr 2012 05:53:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 2 Apr 2012 05:53:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: oo9g2000pbc.googlegroups.com; posting-host=117.213.129.40;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.in/

ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.in/2010/09/hot-lip-kiss-135.html

ALL JOBS SITES FREE SEE

http://jobstwo.blogspot.in/

HOT VIDEOS

http://hotvideotoou.blogspot.in/2011/01/kiss-videos.html

hot lip kiss
http://hotvidos.blogspot.in/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.in/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.in/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.in/2010/07/real-hot-videos.html

```
From -5546287949012384917
X-Google-Thread: fc2a5,1981e280032c644e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.227.230 with SMTP id sd6mr8055075pbc.8.1333421777085;
        Mon, 02 Apr 2012 19:56:17 -0700 (PDT)
MIME-Version: 1.0
Path: r9ni12203pbh.0!nntp.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 02 Apr 2012 21:56:16 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <15909891.3791.1332069615397.JavaMail.geo-discussion-forums@vbgu10>
<eq6dnVwKTYYvdvjSnZ2dnUVZ_vWdnZ2d@earthlink.com>
<84bb7bc0-27e4-4b16-8271-202bb1113943@ur9g2000pbc.googlegroups.com>
Subject: Re: Switching attenuator
Date: Mon, 2 Apr 2012 21:56:15 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
Message-ID: <7-6dnbxlQsxN--fSnZ2dnUVZ_s2dnZ2d@giganews.com>
Lines: 49
```

X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
T0ldJb69XE50IcSqeA5OP2urczNcl33fYqXJ35fEyzEqERSEfk5KzsBzZioKSChQqOJ7+jXb1QCvztD!
i78dmLQgVrSVR7/9/H0GbvpIzokaf+H/n3td7tRZ26LIaGotwhMdLjEMAdYhUZySnXVMxgScKuU=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 3549

K7ITM wrote:
> On Mar 18, 7:05 am, dave <d...@dave.dave> wrote:
>> On 03/18/2012 04:20 AM, JIMMIE wrote:
>>
>>> I am trying to design a circuit that will enable me to switch H pad
>>> attenuators in and out of a line but just cant get my head wrapped
>>> around it. I have come up with one method of doing it but it seems
>>> a little complicated. I would greatly appreciate it if someone
>>> could direct me to a circuit diagram.
>>
>>> Jimmie
>>
>> Bridge the pad with a DPST switch or relay. Switch "on" pad "off".
>
> Errrrp. That leaves the pad in-circuit across the line...not good in
> most situations. Better if the switch also disconnects the pad from
> the line. You probably need a 4PDT switch: the four moveable
> contacts to the input and output lines, the four fixed contacts on one
> side to the four terminals of the pad, and the four fixed contacts on
> the other side wired so the line connects straight through. You can
> do it a bit more simply by bridging the pad with the DPST as
> suggested, but also adding a SPST that is N.O. if the DPST is N.C.,
> with the SPST opening up the shunt path in the H-attenuator.
>
> If you leave the H-pad in the circuit, bridging it with a DPST and not
> opening up the shunt path, assuming the pad is the same impedance as
> the line (=R in the following...), you shunt the line with 8.7*R for a
> 1dB pad (not terrible...), 2.9*R for a 3dB pad (not so good), and
> 0.95*R for a 10dB pad (pretty awful).
>
> Cheers,
> Tom

This is probably what you're looking for:
http://www.arrl.org/files/file/Technology/tis/info/pdf/9506033.pdf
With careful construction, you should get pretty accurate results at HF and
VHF frequencies. Using SMD resistors in the construction should yield even
better performance than described in the construction article, since it
looks like the author used metal or carbon film resistors, which are
somewhat inductive. Use of a PCB and good shielding between the sections
should give you a really good attenuator.

Granted, the article describes a Pi-type attenuator, but the technique
should be applicable to an H-type circuit as well..

--
Dave M
A woman has the last word in any argument. Anything a man says after that is
the beginning of a new argument.

```
From -8039180220729398382
X-Google-Thread: fc2a5,4180e430784a4fbf
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.236.170 with SMTP id uv10mr10005379pbc.4.1333473475080;
        Tue, 03 Apr 2012 10:17:55 -0700 (PDT)
Path: r9ni14448pbh.0!nntp.google.com!news1.google.com!goblin3!goblin1!
goblin.stu.neva.ru!news2.euro.net!newsgate.cistron.nl!newsgate.news.xs4all.nl!
news.nosignal.org!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Electrothermal squigging in a regenerative radio receiver.
Date: Tue, 3 Apr 2012 13:18:53 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 55
Sender: et472@196-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.1204031311220.15301@darkstar.example.net>
References: <3ed71a31-4c34-4188-ba43-6ee678477fa3@pg6g2000pbb.googlegroups.com>
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Mime-Version: 1.0
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X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 3 Apr 2012 17:17:52 GMT
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Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
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On Sun, 1 Apr 2012, Lemon Tree wrote:

> I am conducting ongoing experiments with regenerative radio
> receivers. One problem I have repeatedly encountered is low frequency
> squigging/motorboating. Particularly when using somewhat higher CE
> transistor currents. Oddly, changing the values of any of the
> capacitors in the circuit did not change the frequency of the
> squigging. There was nothing wrong with the decoupling and even
> adding additional decoupling capacitors had no effect. Almost
> certainly the unwanted low frequency oscillations are due to
> electrothermal effects.
> Directing hot air from a hairdryer at the transistors for less that a
> second stopped the low frequency oscillation. After stopping the
> hairdryer the circuit started squigging again after a couple of
> seconds.
> The fact that regenerative receivers are operated with the amount of

> positive feedback (regeneration) so close to the threshold of
> oscillation makes the extremely sensitive to the gain of the
> sustaining amplifier.
> Even slight changes in the gain of the transistors (caused by self-
> heating or the environment) can then have a big effect. This is
> almost certainly the basis of the low frequency squigging in the
> circuit.
>

But that's "normal".

Howard Armstrong noticed it early on, and never pursued it. Then later, I think when he was doing some work on regeneration preparatory to the court battle over the patent, he noticed it again. And then he pursued it, and got superregeneration. So his original regen circuit could oscillate at ultrasonic frequencies as well as at radio frequencies if the regen was turned up too much. It was just incidental, later he tried an external ultrasonic oscillator to "modulate" the regen receiver, but for most of the time ever since, the same active device has been both the RF transistor and the ultrasonic oscillator. It was all very black box for most of that time, as it got relegated to secondary status, the explanations dropping off and few pursuing it much.

It's really a scheme similar to reflex (where one stage is both amplifying radio frequency and audio frequency) or "autodyne" circuits, where the same stage is both a rf mixer and rf oscillator.

One project in QST and later their VHF manual had a receiver chain that used converters feeding an IF strip and then a regen detector, the regen detector configured so it could go into ultrasonic oscillation too so it could be either regen (for CW) or superregen.

Turn down regen. That may fix the problem. Or try another circuit. Realistically, it's not the sort of thing that people report, so it would seem plenty of regen circuits, tube and transistor, don't have a problem.

Michael VE2BVW

From -5705818738694963535
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X-Google-NewGroupId: yes
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Received: by 10.204.143.143 with SMTP id v15mr1469281bku.8.1333550257832;
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Path: h15ni85291bkw.0!nntp.google.com!news1.google.com!postnews.google.com!wj4g2000pbc.googlegroups.com!not-for-mail
From: darling2525 <kousalya99@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: NEW HOT PHOTOS & VIDEOS

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Date: Wed, 4 Apr 2012 07:35:54 -0700 (PDT)
Organization: http://groups.google.com
Lines: 132
Message-ID: <6cb63c7e-a861-4bc3-9f57-f998c960c8f3@wj4g2000pbc.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 4 Apr 2012 14:37:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: wj4g2000pbc.googlegroups.com; posting-host=117.213.130.83;
posting-account=FCyjXwoAAABgroTD4iFctHinmtQ2BDsm
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1


TOP DATING TIPS TO ENCOURAGE WOMEN FOR DATING
           http://datingsitesdatingtips.blogspot.in/

          FOR ONLY HOT GUYS SEE THIS
         VIMALA RAMAN LATEST HOT STILLS
http://hotactress-kalyani.blogspot.com/2012/03/vimalaraman-hot.html
              PRIYAMANI HOT PHOTOS
http://hotactress-kalyani.blogspot.in/2011/09/priyamani-hot.html
        ANUSHKA HOT ROMANTIC PHOTOS
http://hotactress-kalyani.blogspot.in/2011/08/anushka-hot.html
         KAJAL AGARWAL LATEST HOT WITHOUT TOP
http://hotactress-kalyani.blogspot.in/2011/08/kajal-agarwal-hot-photos.html
    AMISHA PATEL LATEST HOT STILLS
http://hotactress-kalyani.blogspot.in/2011/08/amisha-patel-hot.html
         KATRINA KAIF HOT SPICY STILLS
http://hotactress-kalyani.blogspot.in/2011/08/katrina-kaif-hot.html
          NEERU BAJWA LATEST SPICY STILLS
http://hotactress-kalyani.blogspot.in/2011/12/neeru-bajwa-hot.html
              PRIYANKA TIWARI HOT PHOTOS
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            SAMANTHA LATEST HOT STILLS
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      DEEKSHASETH LATEST ROMANTIC STILLS
http://hotactress-kalyani.blogspot.in/2011/09/deeksha-seth-hot.html
   PAYAL GHOSH HOT PHOTOS
http://hotactress-kalyani.blogspot.in/2011/11/payal-ghosh-hot.html
          SIDDI MAMRE HOT ROMANTIC STILLS
http://hotactress-kalyani.blogspot.in/2012/02/siddhi-mamre-hot.html
       SHEENA SHAHABADI LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2012/02/sheena-shahabadi-hot.html
               LATEST HOT KATRINA KAIF PHOTOS
http://hotactress-kalyani.blogspot.in/2011/08/katrina-kaif-hot.html
  ANUSHKA LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.in/2011/08/anushka-hot.html
  KAJAL AGARWAL HOT SAREE STILLS
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http://hotactress-kalyani.blogspot.in/2011/11/kajal-agarwal-hot-in-saree.html
RAGINI DWIVEDI HOT PHOTOS
http://hotactress-kalyani.blogspot.in/2011/12/ragini-dwivedi.html
PARVATHI MELTON LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.in/2011/11/parvathi-melton-hot.html
SARAH JANE DIAS HOT PHOTOS
http://hotactress-kalyani.blogspot.in/2011/11/sarah-jane-dias-hot.html
TAMANNA LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.in/2011/08/tamanna-hot.html
PARUL HOT PHOTO STILLS
http://hotactress-kalyani.blogspot.in/2011/12/parul-hot.html
ADITI AGARWAL NEW ROMANTIC STILLS
http://hotactress-kalyani.blogspot.in/2011/12/aditi-agarwal-hot.html
POONAM KAUR HOT ROMANTIC STILLS
http://hotactress-kalyani.blogspot.in/2011/11/poonam-kaur-hot.html
AMISHA PATEL LATEST HOT BIKINI STILLS
http://hotactress-kalyani.blogspot.in/2011/08/amisha-patel-hot.html

{ ALL LATEST MOVIE STILLS}
KAJAL BUSINESSMAN MOVIE STILLS
http://actressgallery-kalyani.blogspot.in/2012/01/kajal-agarwal-in-business-man.html
SONAM KAPOOR LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.in/2012/01/sonam-kapoor-maxim-photoshoot-stills.html
RITU KAUR LATEST PHOTO STILLS
http://actressgallery-kalyani.blogspot.in/2012/01/ritu-kaur-stills.html
SWAPNA SUNDARI MOVIE STILLS
http://actressgallery-kalyani.blogspot.in/2012/01/swapna-sundari-movie-stills.html
SEVAKUDU MOVIE STILLS
http://actressgallery-kalyani.blogspot.in/2012/01/sevakudu-movie-stills.html.
SRIKANTH DEVARA MOVIE GALLERY
http://actressgallery-kalyani.blogspot.in/2011/12/devaraya-movie-stills.html
KULLUMANALI MOVIE STILLS
http://actressgallery-kalyani.blogspot.in/2011/12/kullu-manali-movie-stills.html
BUSINESSMAN MOVIE STILLS
http://actressgallery-kalyani.blogspot.in/2011/12/businessman-movie-stills.html
HOT ACTRESS BIKINI STILLS IN 2012 CALENDAR
http://actressgallery-kalyani.blogspot.in/2011/12/2012-actress-calendar-wallpapers.html
KSHETHRAM MOVIE STILLS
http://actressgallery-kalyani.blogspot.in/2011/12/kshethram-movie-stills.html
SAMANTHA SOUTHSCOPE HOT PHOTOS
http://actressgallery-kalyani.blogspot.in/2011/12/samantha-at-south-scope-magazine.html
BODYGAURD LATEST MOVIE STILLS
http://actressgallery-kalyani.blogspot.in/2011/12/bodyguard-telugu-movie-stills_14.html
DEEPIKA PADUKONE SPICY WALLPAPERS
http://actressgallery-kalyani.blogspot.in/2011/12/deepika-padukone.html
KATRINA KAIF LATEST HOT WALLPAPERS
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NIPPU MOVIE STILLS

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http://actressgallery-kalyani.blogspot.in/2011/11/nippu-movie-stills.html
                    LOVE FAILURE MOVIE STILLS
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http://actressgallery-kalyani.blogspot.in/2011/12/veedinthe-movie-stills.html
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               HARI PRIYA HOT PHOTO STILLS
http://actressgallery-kalyani.blogspot.in/2011/12/haripariya-actress.html
             SHRUTI HASSAN HOT IN 3 MOVIE
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          POOLARANGADU MOVIE STILLS
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                    PRIYUDU HOT ROMANTIC STILLS
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                 ADHINAYAKUDU LATEST MOVIE STILLS
http://actressgallery-kalyani.blogspot.in/2011/11/adhinayakudu-movie-stills.html
                   HOT KATRINA KAIF PHOTOS
http://actressgallery-kalyani.blogspot.in/2011/09/katrina-kaif.html
           AISHWARYA RAI HOT HQ PHOTO STILLS
http://actressgallery-kalyani.blogspot.in/2011/09/aishwarya-rai.html
           ASIN HOT PHOTO GALLERY
http://actressgallery-kalyani.blogspot.in/2011/09/asin.html
              HANSIKA MATOWNI LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.in/2011/09/hansika-motwani.html
                KAJAL AGARWAL HOT PHOTOS
http://actressgallery-kalyani.blogspot.in/2011/09/kajal-agarwal.html
             SNEHA HOT GOA MOVIE STILLS
http://actressgallery-kalyani.blogspot.in/2011/09/goa-movie-stills.html





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X-Google-NewGroupId: yes
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NNTP-Posting-Date: Thu, 04 Oct 2012 09:55:14 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <joseph2010.ab17ed8@radiobanter.com>
<a4GdnVouuOpo0_HNnZ2dnUVZ_oidnZ2d@earthlink.com>
<joseph2010.ab27bf9@radiobanter.com> <joseph2010.ab2d058@radiobanter.com>
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Date: Thu, 4 Oct 2012 10:55:13 -0400
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lVngwx8EphgJjj8K4=
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 4592
X-Original-Bytes: 4531
X-Received-Bytes: 4672
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"joseph2010" <joseph2010.ab2d058@radiobanter.com> wrote in message
news:joseph2010.ab2d058@radiobanter.com...

> I just read the following, and I'm wondering if it's true?
>
>> I use a CB SWR meter to check 2M antennas all the time. There is a
>> trick to it however.If all you want to to is check SWR on your 2M
>> antenna, you don't necessarily have to buy a dedicated VHF/UHF SWR
>> meter. What I keep in my toolbag for that is a cheapie $5 hamfest
>> special CB SWR meter. They really don't work well on 2M but there's a
>> trick you can do that will net a reasonably accurate SWR reading on 2M
>> with one of these meters.
>>
>> What you do is connect up the meter as usual, key the rig with the

>> switch in the forward power position, set the adjustment for full scale. Now, without touching anything, swap the coax connections so that the rig is connected to the "ANT" side of the meter, and the antenna is connected to the "XCVR" side. The reading you see on the meter will be very close to your real SWR. The closer to 1:1 your SWR is, the more accurate it will be. It would be more convenient to have a real SWR meter or antenna analyzer if you do a lot of testing, but for a quick antenna check after a mobile install or whatever, the $5 CB meters work OK.
>
> I'm not sure I believe this, what do you think? thanks in advance

For the meter you have, it is mostly true. I don't know if it is really any more accurate,but it will work just fine. Usually when you get under about 1.8 or 1.5 to 1 that is close enough. The main thing is just to tune for the lowest reflected power. As long as it is low enough the rig puts out full power, that is the main thing in most cases.

Most any of the SWR or directional watt meters will work fine in either direction. You can take the meter you have and hook it up the way you are suspose to and see what you have. The reverse the coax. You also have to keep it in your head the forward/reverse switch will work backwards. That is you set it for reflected power and adjust for full scale. The switch it to forward to read the SWR. That is one way to run a quick check to see if the SWR meter is working like it should. You may see a small differance,but should not be too much.

The meter you have has two coupling wires. One is used to measuer the forward power and one measuers the reflected power. They should be exectally the same. Those 150 ohm resistors should be exectally the same also, but they are ofter eithe r 5 or 10 percent resistors. As with most mass produced items, on line may be a fraction of an inch longer or closer the the center line. This is not usually a problem. After all , this is not a lab grade instrument. Even the much praised Bird meter is not really that accurate if you read the specifications.

Watt meters are not normally needed to be super accurate. I have a service monitor that origionally cost around $ 50,000. Bought it for under $ 1000 as it was mainly for the old cell phone stuff that is not used any more, but it also works great for other servicing.

The frequecny readout is almost dead on. The specs is something like being within 85 Hz at 850 Mhz. The wattmeter is still only rated for about 5%.

From 3995681634985321492
X-Google-Thread: 241b302a50,71abe89d65ba70e3,start
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X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.180.75.197 with SMTP id e5mr13052wiw.1.1349940437406;

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border2.nntp.dca.giganews.com!border3.nntp.dca.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!news.glorb.com!feeder.erje.net!
news2.arglkargh.de!nuzba.szn.dk!pnx.dk!fu-berlin.de!uni-berlin.de!news.dfncis.de!
not-for-mail
From: Markus Wolfgart <markus.wolfgart@dlr.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: IC245E/IC211E service man wanted!
Date: Fri, 05 Oct 2012 12:42:22 +0200
Lines: 15
Message-ID: <ad7rseFn6l0U1@mid.dfncis.de>
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15.0
Bytes: 1275
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
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Dear OM's,

Im looking for the SM of the both TRX mentioned in the subject line.
Would be nice if someone of you could drop me a mail with the corresponding
attachment - if possible.

I get both boxes from Ebay in a defect state and would like to get them running.
I know a big effort but it's a kind of hobby for me.

Many thanks in advance for your help.

```
PS.: The IC245E is receiving in all modes, but don't like to transmit rf.
     The IC211E seems to had a defect in the PSU.
```

```
From 1977349064088977476
X-Google-Thread: fc2a5,cf2dd70a5bab2e4e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Fri, 05 Oct 2012 06:02:58 -0500
From: joseph2010 <joseph2010.ab47638@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
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Subject: Re: Modifying an SWR meter
Date: Fri, 5 Oct 2012 07:11:22 +0000
Message-ID: <joseph2010.ab47638@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
References: <joseph2010.ab17ed8@radiobanter.com>
<a4GdnVouuOpo0_HNnZ2dnUVZ_oidnZ2d@earthlink.com>
<joseph2010.ab27bf9@radiobanter.com> <joseph2010.ab2d058@radiobanter.com>
<bdadnWxLhojPPvDNnZ2dnUVZ_q6dnZ2d@earthlink.com>
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OSB69Z1pIw==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Bytes: 2262
X-Original-Lines: 13
X-Original-Bytes: 2179

Ralph Mowery;797003 Wrote:
> "joseph2010"
> For the meter you have, it is mostly true. I don't know if it is
> really any
> more accurate,but it will work just fine. Usually when you get under
> about
> 1.8 or 1.5 to 1 that is close enough. The main thing is just to tune
> for
> the lowest reflected power. As long as it is low enough the rig puts
> out
> full power, that is the main thing in most cases.
>

Thanks again for your educational and informative response. I have certainly learned a lot with your help. Thank You!

As luck would have it, today I picked up another one with 2 UHF cables at a thrift store for $5, I couldn't pass it up (the cables alone were worth it) . This one is a Midland 26-126 and it's damaged. One of the 150 ohm R is burned and open, not sure of any other damage.   I'm going to replace both resistors and try to get a matched set (close as possible). I have yet to test the meter movement, that's next.

Thanks again Ralph. It is appreciated.

--
joseph2010

```
From -2616173979557363143
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.220.12 with SMTP id hw12mr10419966qab.8.1349589904649;
        Sat, 06 Oct 2012 23:05:04 -0700 (PDT)
MIME-Version: 1.0
Path: e10ni231559189qan.0!nntp.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1348293901@panix.com>
Followup-To: poster
Date: 7 Oct 2012 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 25 Oct 2012 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1349589901@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1349589904 7787 166.84.1.2 (7 Oct 2012 06:05:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 7 Oct 2012 06:05:04 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted twice monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/
```

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

```
 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article       |
is that it does not mention newer amateur radio newsgroups created since      |
it was written, including:                                                    |

 rec.radio.amateur.antenna                                                    |
 rec.radio.amateur.boatanchors                                                |
 rec.radio.amateur.dx                                                         |
 rec.radio.amateur.equipment                                                  |
 rec.radio.amateur.homebrew                                                   |
 rec.radio.amateur.moderated                                                  |
 rec.radio.amateur.space                                                      |
```

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions. We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

```
From 2659210217877195834
X-Google-Thread: 241b302a50,71abe89d65ba70e3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.31.20 with SMTP id w20mr10815789qac.2.1349615481091;
        Sun, 07 Oct 2012 06:11:21 -0700 (PDT)
Received: by 10.236.181.234 with SMTP id l70mr1531060yhm.5.1349615481057; Sun,
 07 Oct 2012 06:11:21 -0700 (PDT)
Path: e10ni211270746qan.0!nntp.google.com!l8no29593286qao.0!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Sun, 7 Oct 2012 06:11:20 -0700 (PDT)
In-Reply-To: <ad7rseFn6l0U1@mid.dfncis.de>
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=24.14.252.249;
 posting-account=hdukcQoAAAAvLSsYvEuf9LCFYDIHBvlS
NNTP-Posting-Host: 24.14.252.249
```

References: <ad7rseFn6l0U1@mid.dfncis.de>
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <3aca58c7-a51f-4c69-876d-43ea234e3926@googlegroups.com>
Subject: IC245E/IC211E Service Manual wanted!
From: "G. Beat" <gregory.beat@comcast.net>
Injection-Date: Sun, 07 Oct 2012 13:11:21 +0000
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Markus -

The Icom IC-245, IC-211, and IC-251 are from the mid to late 1970s.
It is not uncommon for the internal switch-mode power supply to have electr=
olytic capacitor issues (~ 35 years).

Scott Malcom, KA7MEF at MTS has outlined the most frequent issues with thes=
e Icom radios. =20
Scott worked at Icom America service (during this period) so is very famili=
ar with these radio models.

Malcom Technical Support (MTS)
5130 Jackson Hwy
Toledo, WA 98591-8680
USA
http://www.angelfire.com/biz2/mts/

ICOM 211/245(S)/251/451/701
http://www.angelfire.com/biz2/mts/Oldies.html

The most common problem is bad solder connections in the PLL unit and Displ=
ay driver unit.

BRIEF History: The 211/701 came out in 1976 (give or take a few months), Ja=
pan was trying a new type of PCB, with plated thru holes, it didn't work ve=
ry well so the plated thru holes were replace with pins, these pins were co=
ated to bond with copper and solder, and it almost worked, these pins are b=
reaking down now, and can cause anything from open connections to low resis=
tive connections.
What we are calling updates, are to remove these pins and replace them with=
 copper wire bent over on top and bottom, then resolder the connection. It =
is important to remove all the old solder. The better method is to add jump=
er wires on the bottom side of the board (this is what we do, more reliable=
), I will try to post some pictures of where the wires go, it will take a w=
hile though.=20
The IC-701 only has a few pins, and most of the boards stayed with the plat=
ted thru holes.=20
The IC-211 had 4 generations of PLL's and 3 generations of Display drivers.=
=20
The IC-245 uses the same PLL, and had 2 generations of Display drivers.

211 PLL Alignment: The PLL alignment is straight forward, does require a ac=
curate frequency counter and patience. If the frequency is off by more than=

```
 4Khz, there are other problems and the alignment sheets won't help.=20
Most common causes of problems are bad solder joints, dried out caps (elect=
rolytics) and the -9v regulator's (DC/DC converter) associated parts. (it i=
s very rare for the -9v reg. (DP1) to fail!).=20
Align A,=20
http://www.angelfire.com/biz2/mts/aligna.jpg

Align B
http://www.angelfire.com/biz2/mts/alignb.jpg

PLL Updates This is a picture of updating (wiring) a mid production version=
 PLL (400Kb)211 PLL,
http://www.angelfire.com/biz2/mts/images/211pll.jpg

and this is the older version (200Kb)211 PLL Older Version,=20
http://www.angelfire.com/biz2/mts/211old2.jpg

and this is the newer version normally called the black board (200Kb) 211 P=
LL Newer version,=20
http://www.angelfire.com/biz2/mts/211pllN2.jpg

there is one version newer than this, but it was a version that came out af=
ter the production stopped, it was a service upgrade, there are very few of=
 these versions out there and once installed, I am not aware of any problem=
s.=20
I will try to find a picture of it and post it.
=3D=3D
IC-251.  The 251 is basically a more advanced version of the 211. The Main =
unit is almost the same. The PLL and Logic are very different. The biggest =
issue with the 251 is the CMOS logic. It "glitches" and is very static sens=
itive. The CPU and Expander are no longer available new. Generally it is ve=
ry reliable, and needs very little maintenance.
=3D=3D
Good luck !

w9gb



From 885198310676545919
X-Google-Thread: 241b302a50,cf2dd70a5bab2e4e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.14.209.66 with SMTP id r42mr13925267eeo.1.1350352609269;
        Mon, 15 Oct 2012 18:56:49 -0700 (PDT)
MIME-Version: 1.0
Path: q10ni65138189wif.0!nntp.google.com!feeder3.cambriumusenet.nl!
feed.tweaknews.nl!216.196.110.146.MISMATCH!border3.nntp.ams.giganews.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!news.panservice.it!
aioe.org!.POSTED!not-for-mail
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Modifying an SWR meter
```

```
Date: Mon, 08 Oct 2012 21:21:28 -0400
Organization: Aioe.org NNTP Server
Lines: 29
Message-ID: <fmmck-D59EA3.21212808102012@5ad64b5e.bb.sky.com>
References: <joseph2010.ab17ed8@radiobanter.com>
<a4GdnVouuOpo0_HNnZ2dnUVZ_oidnZ2d@earthlink.com>
<joseph2010.ab27bf9@radiobanter.com>
NNTP-Posting-Host: 4lV2ncZws9SmailhSv7xGg.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
Bytes: 2188

In article <joseph2010.ab27bf9@radiobanter.com>,
 joseph2010 <joseph2010.ab27bf9@radiobanter.com> wrote:

> Ralph, Thanks for your informative reply.    You're right, there were
> several manufacturers that made these units (Midland, Pace, Numark,
> etc.). I did try to hook it up, but the SWR was 1.3:1 (almost the same
> as I got with a dummy load), which I thought  was too good to be true,
> but maybe it was due to the low wattage being used (<4 watts).  I'll get
> some proper cables built and go from there.

Joseph2010-

Ralph is right on the money with his advice.  I've had a couple of the
CB-type bridges that worked well on Two Meters.

I think your 1.3:1 measurement may be due to mismatch of the 150 Ohm
resistors in the bridge.  But it also could be telling you the truth!
Some dummy loads are not good on Two Meters.

Hooking it up backwards should work the same as forward, except the
switch works backwards.

You normally adjust an antenna for best SWR assuming the meter is
telling the truth.  In fact, 1.3:1 is not so bad.  If you did not have
that dummy load, you might have adjusted the antenna for a reading of
1:1 and never found out it was not perfect.

Fred
K4DII


From 6081563304490171O8
X-Google-Thread: 241b302a50,71abe89d65ba70e3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.180.97.162 with SMTP id eb2mr125509wib.0.1350352575972;
```

```
        Mon, 15 Oct 2012 18:56:15 -0700 (PDT)
MIME-Version: 1.0
Path: q10ni65138160wif.0!nntp.google.com!feeder3.cambriumusenet.nl!
feed.tweaknews.nl!94.232.116.11.MISMATCH!feed.xsnews.nl!border-1.ams.xsnews.nl!
border3.nntp.ams.giganews.com!border1.nntp.ams.giganews.com!
border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!nntp.giganews.com!
news.panservice.it!feeder.erje.net!news.mixmin.net!aioe.org!.POSTED!not-for-mail
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: IC245E/IC211E service man wanted!
Date: Mon, 08 Oct 2012 21:29:19 -0400
Organization: Aioe.org NNTP Server
Lines: 19
Message-ID: <fmmck-EE69A6.21291908102012@5ad64b5e.bb.sky.com>
References: <ad7rseFn6l0U1@mid.dfncis.de>
NNTP-Posting-Host: 4lV2ncZws9SmailhSv7xGg.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
Bytes: 1494

In article <ad7rseFn6l0U1@mid.dfncis.de>,
 Markus Wolfgart <markus.wolfgart@dlr.de> wrote:

> Im looking for the SM of the both TRX mentioned in the subject line.
> Would be nice if someone of you could drop me a mail with the corresponding
> attachment - if possible.


Markus-

One place that is likely to have the manuals, is www.mods.dk.  Because
of abuse, they require you to register, and only allow one download per
day unless you donate money.

Other possible sources are www.eserviceinfo.com/browse.php and
ftp.qrz.ru/pub/hamradio/schemes/.

Fred
K4DII


From 9047830389381569044
X-Google-Thread: fc2a5,7113fc3b536a12cd,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.86.6 with SMTP id l6mr1646709paz.11.1350089982982;
        Fri, 12 Oct 2012 17:59:42 -0700 (PDT)
MIME-Version: 1.0
```

```
Received: by 10.68.233.130 with SMTP id tw2mr1581876pbc.12.1350089982966; Fri,
 12 Oct 2012 17:59:42 -0700 (PDT)
Path: jt13ni6326pbb.1!nntp.google.com!kr7no25175533pbb.0!postnews.google.com!
n7g2000pbj.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Fri, 12 Oct 2012 17:59:42 -0700 (PDT)
Complaints-To: groups-abuse@google.com
Injection-Info: n7g2000pbj.googlegroups.com; posting-host=117.199.242.27; posting-
account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
NNTP-Posting-Host: 117.199.242.27
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:15.0) Gecko/20100101 Firefox/
15.0.1,gzip(gfe)
Message-ID: <e17eb674-639b-4311-834e-a1f885a7696c@n7g2000pbj.googlegroups.com>
Subject: HOT VIDEOS 2 HOT PEOPLE AND ACTRESSES NEVER SEEN PHOTOS
From: 9038 <1jghgcgcc@gmail.com>
Injection-Date: Sat, 13 Oct 2012 00:59:42 +0000
Content-Type: text/plain; charset=ISO-8859-1

     VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.in/2011/06/real-kiss-hot-videos.html

  HOT HOT LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/hot-for-youth.html
SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-101.html
YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.in/2010/06/supr-hot-never-seen.html
SUPER HOT NEVER SEEN
http://hotvideosfreesee.blogspot.in/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/kajal-best-lip-kiss.html

for mopre hot videos
http://allvideosforyouth.blogspot.in/2010/08/super-hot-lip-kiss.html

     jobs
http://alljobsaywhere.blogspot.in/

              mobile

mobile games free download
http://mobileallinforation.blogspot.in


 interview question
java interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/java-interview-questions-
and-answers.html
oracle interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/oracle-interview-
```

questions-and-answers.html
hardware interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/hardware-interview-questions-and-answers.html
networking interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/networking-interview-questions-and.html
dotnet interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/dotnet-interview-questions-and-answers.html
c interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/c-interview-questions-and-answers.html
datawarehousing interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/datawarehousing-interview-questions-and.html
sap interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/sap-interview-questions-and-answers.html

all jobs
java jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/java-jobs.html
oracle jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/oracle-jobs.html
sap jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/sap-jobs.html
hardware jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/hardware-jobs.html
networking jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/networking-jobs.html
datawarehousing jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/datawarehousing-jobs.html
GOOGLE ADSENSE
http://alljobsandinterviwquestions.blogspot.com/2012/08/google-adsense.html

```
From 1482299455658286364
X-Google-Thread: 11480d,40fc788d7e06631d,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,40fc788d7e06631d,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,40fc788d7e06631d,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,40fc788d7e06631d,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid7221ecd0f7,gid241b302a50,gide721ae2bf6,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Received: by 10.66.90.37 with SMTP id bt5mr236430pab.40.1350280804940;
        Sun, 14 Oct 2012 23:00:04 -0700 (PDT)
MIME-Version: 1.0
Path: jt13ni11619pbb.1!nntp.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!news-out.readnews.com!transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1349071201@panix.com>
Followup-To: poster
Date: 15 Oct 2012 02:00:03 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 02 Nov 2012 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1350280801@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1350280803 1038 166.84.1.2 (15 Oct 2012 06:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 15 Oct 2012 06:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
Bytes: 3609

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted twice monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. After a successful trial |
period (90 days, through early July 2009), we decided to adopt this |
change permanently. |

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From -5604418510704530630
X-Google-Thread: fc2a5,7cd673ab3fbff18,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.226.41 with SMTP id rp9mr5306536pbc.4.1350510548200;
        Wed, 17 Oct 2012 14:49:08 -0700 (PDT)
Path: 6ni1850pbd.1!nntp.google.com!news.glorb.com!feeder.erje.net!proxad.net!
feeder1-2.proxad.net!193.252.117.184.MISMATCH!feeder.news.orange.fr!not-for-mail
Date: Wed, 17 Oct 2012 23:49:08 +0200
From: Theo <beorien@wanadoo.fr>
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:16.0) Gecko/20121010
Thunderbird/16.0.1
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: VHF transistor for HF Power ampli
Lines: 8
Message-ID: <507f27d3$0$23470$ba4acef3@reader.news.orange.fr>
Organization: les newsgroups par Orange
NNTP-Posting-Date: 17 Oct 2012 23:49:07 CEST
NNTP-Posting-Host: 92.137.86.169
X-Trace: 1350510547 reader.news.orange.fr 23470 92.137.86.169:7384
X-Complaints-To: abuse@orange.fr
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
```

```
Content-Transfer-Encoding: 7bit

HI,

I've several VHF transistor that could run about 50W.
I wonder if they are able to work under 3,5, 7 or 14 MHz ?

Thanks a lot for your answers

Teo



From -7224522778822365521
X-Google-Thread: fc2a5,7cd673ab3fbff18
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.181.12.101 with SMTP id ep5mr972775wid.1.1350516381327;
        Wed, 17 Oct 2012 16:26:21 -0700 (PDT)
Path: q11ni134354626wiw.1!nntp.google.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!85.12.40.131.MISMATCH!xlned.com!feeder3.xlned.com!
feeder.erje.net!eternal-september.org!feeder.eternal-september.org!mx04.eternal-
september.org!.POSTED!not-for-mail
From: atec77 <"atec77 "@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VHF transistor for HF Power ampli
Date: Thu, 18 Oct 2012 09:26:16 +1000
Organization: A noiseless patient Spider
Lines: 23
Message-ID: <k5neqs$eg2$1@dont-email.me>
References: <507f27d3$0$23470$ba4acef3@reader.news.orange.fr>
Mime-Version: 1.0
Injection-Date: Wed, 17 Oct 2012 23:26:21 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-
host="6e811652e68ff9e1e046c5d2bf7d7c06";
     logging-data="14850"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX196MaVQoUJDbozp0rfPCXdi"
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:16.0) Gecko/20121010
Thunderbird/16.0.1
In-Reply-To: <507f27d3$0$23470$ba4acef3@reader.news.orange.fr>
Cancel-Lock: sha1:u3bwHHhsOV+6ix/r/55wPZ1XEIs=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 18/10/2012 7:49 AM, Theo wrote:
> HI,
>
> I've several VHF transistor that could run about 50W.
> I wonder if they are able to work under 3,5, 7 or 14 MHz ?
>
> Thanks a lot for your answers
>
> Teo
```

```
Perhaps , depends on what the device is

--
```

```
X-No-Archive: Yes
```

```
From -4247836706620675888
X-Google-Thread: fc2a5,7cd673ab3fbff18
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.76.5 with SMTP id g5mr5401535paw.44.1350529739149;
        Wed, 17 Oct 2012 20:08:59 -0700 (PDT)
Path: 6ni2525pbd.1!nntp.google.com!news.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-11.dc1.easynews.com.POSTED!not-for-mail
From: Arid ace <nonsmoker@freedom.smokes.oil>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VHF transistor for HF Power ampli
Message-ID: <fesu7896pv4pmc6rjj1anl9aiipte42n4e@4ax.com>
References: <507f27d3$0$23470$ba4acef3@reader.news.orange.fr>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Lines: 15
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Wed, 17 Oct 2012 22:08:58 -0500
X-Received-Bytes: 1223
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Wed, 17 Oct 2012 23:49:08 +0200, Theo <beorien@wanadoo.fr> wrote:

>HI,
>
>I've several VHF transistor that could run about 50W.
>I wonder if they are able to work under 3,5, 7 or 14 MHz ?
>
>Thanks a lot for your answers
>
>Teo
```

Generally, a transistor designed for VHF will work well on HF, and with (much) higher gain. When that is ignored, it could be a reason for instability though.

Jan

From -1722861922718399269
X-Google-Thread: fc2a5,7cd673ab3fbff18
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.180.97.162 with SMTP id eb2mr1188189wib.0.1350544491378;
        Thu, 18 Oct 2012 00:14:51 -0700 (PDT)
Path: q10ni65170405wif.0!nntp.google.com!proxad.net!feeder1-2.proxad.net!193.252.117.184.MISMATCH!feeder.news.orange.fr!not-for-mail
Date: Thu, 18 Oct 2012 09:14:50 +0200
From: Theo <beorien@wanadoo.fr>
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:16.0) Gecko/20121010 Thunderbird/16.0.1
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VHF transistor for HF Power ampli
References: <507f27d3$0$23470$ba4acef3@reader.news.orange.fr> <fesu7896pv4pmc6rjj1anl9aiipte42n4e@4ax.com>
In-Reply-To: <fesu7896pv4pmc6rjj1anl9aiipte42n4e@4ax.com>
Lines: 15
Message-ID: <507fac6a$0$21231$ba4acef3@reader.news.orange.fr>
Organization: les newsgroups par Orange
NNTP-Posting-Date: 18 Oct 2012 09:14:50 CEST
NNTP-Posting-Host: 92.137.86.169
X-Trace: 1350544490 reader.news.orange.fr 21231 92.137.86.169:7892
X-Complaints-To: abuse@orange.fr
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

hi,

Thanks a lot for your answers.

For a long time, I've :

BLY94	50W
2N5643	40W
BLY21	15W
2N5591	5W
2N5945	4W
2N3927	20W
MRF238	30W

I never use them in vhf but they can help me to build amplifiers for my qrp.

```
From -4626500399288460809
X-Google-Thread: fcc6e,ca50802ad2b04e8,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,ca50802ad2b04e8,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,ca50802ad2b04e8,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid241b302a50,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.86.6 with SMTP id l6mr2631727paz.11.1350885905091;
        Sun, 21 Oct 2012 23:05:05 -0700 (PDT)
MIME-Version: 1.0
Path: s9ni30314pbb.0!nntp.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!novia!news-out.readnews.com!transit3.readnews.com!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1349589901@panix.com>
Followup-To: poster
Date: 22 Oct 2012 02:05:04 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Nov 2012 01:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1350885900@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1350885904 22184 166.84.1.2 (22 Oct 2012 06:05:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 22 Oct 2012 06:05:04 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Bytes: 3552
```

```
Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted twice monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/
```

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

```
We are seeking a replacement maintainer for the following information
bulletin formerly posted to rec.radio.amateur.* (and currently archived
at http://www.faqs.org/faqs/radio/personal-intro/ ):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article       |
is that it does not mention newer amateur radio newsgroups created since      |
it was written, including:                                                    |

 rec.radio.amateur.antenna                                                    |
 rec.radio.amateur.boatanchors                                                |
 rec.radio.amateur.dx                                                         |
 rec.radio.amateur.equipment                                                  |
 rec.radio.amateur.homebrew                                                   |
 rec.radio.amateur.moderated                                                  |
 rec.radio.amateur.space                                                      |

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions.  We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.




From 1133373243157322504
X-Google-Thread: 241b302a50,e65fdce88ac07efc,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.117.143 with SMTP id r15mr5891655qaq.1.1350912020946;
        Mon, 22 Oct 2012 06:20:20 -0700 (PDT)
Received: by 10.52.97.101 with SMTP id dz5mr1223205vdb.2.1350912020878; Mon,
 22 Oct 2012 06:20:20 -0700 (PDT)
Path: r17ni43198318qap.0!nntp.google.com!x14no4299313qar.0!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Mon, 22 Oct 2012 06:20:20 -0700 (PDT)
Complaints-To: groups-abuse@google.com
```

```
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=188.190.124.71;
 posting-account=lpvsOQoAAADrItjCNLUGUA4f5NKzjLsd
NNTP-Posting-Host: 188.190.124.71
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <204c800f-ba85-49f2-ae34-6abd0db1f8cd@googlegroups.com>
Subject: bethany benz first anal
From: Iran <tamarmadgecay@gmail.com>
Injection-Date: Mon, 22 Oct 2012 13:20:20 +0000
Content-Type: text/plain; charset=ISO-8859-1


bethany benz first anal http://www.google.com/search?
hl=en&q=bethany+benz+first+anal+site:blowjob-
date.blogspot.com&btnI=I%27m+Feeling+Lucky



From 7203874409614322235
X-Google-Thread: fc2a5,71abe89d65ba70e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.86.39 with SMTP id m7mr3157086paz.4.1350939088315;
        Mon, 22 Oct 2012 13:51:28 -0700 (PDT)
Path: 6ni15055pbd.1!nntp.google.com!news.glorb.com!feeder.erje.net!fu-berlin.de!
uni-berlin.de!news.dfncis.de!not-for-mail
From: markus wolfgart <markus.wolfgart@dlr.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: IC245E/IC211E service man wanted!
Date: Mon, 22 Oct 2012 22:51:13 +0200
Lines: 36
Message-ID: <aelpufF1menU1@mid.dfncis.de>
References: <ad7rseFn6l0U1@mid.dfncis.de>
Mime-Version: 1.0
X-Trace: news.dfncis.de
7BU9lJHLVy3knKi1QMSj6wzUaYSm3YtV0aUYlPZl6FseKe1i0yExNYAkspEmbSyz0F+2h67t3t
Cancel-Lock: sha1:EWNvaz0KT7kehQBZvvMzX81oZ14=
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:14.0) Gecko/20120713 Thunderbird/
14.0
In-Reply-To: <ad7rseFn6l0U1@mid.dfncis.de>
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Dear Fred,
dear OM W9GB,

many thanks for your help and all detailed infos.

Meanwhile I managed to get a schematic from a German
om.

I will check all connections corresponding to your
description and hints.
```

I will keep you informed on any progress concerning this
repair issue.

vy73
Markus
DL8MBY

Am 05.10.2012 12:42, schrieb Markus Wolfgart:
> Dear OM's,
>
> Im looking for the SM of the both TRX mentioned in the subject line.
> Would be nice if someone of you could drop me a mail with the corresponding
> attachment - if possible.
>
> I get both boxes from Ebay in a defect state and would like to get them running.
> I know a big effort but it's a kind of hobby for me.
>
> Many thanks in advance for your help.
>
> PS.: The IC245E is receiving in all modes, but don't like to transmit rf.
>   The IC211E seems to had a defect in the PSU.
>
>

```
From -5292056871477042637
X-Google-Thread: fc2a5,4f7af9e7afd6928b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.248.34 with SMTP id yj2mr4130291pbc.2.1351011784718;
        Tue, 23 Oct 2012 10:03:04 -0700 (PDT)
MIME-Version: 1.0
Path: 6ni18255pbd.1!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 23 Oct 2012 12:03:03 -0500
From: nj2x <nj2x.acc8598@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Home Brew 9 Volt Battery Clip
Date: Tue, 23 Oct 2012 11:58:49 +0000
Message-ID: <nj2x.acc8598@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
Lines: 17
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-RTm68KnBrTBy6iM2lBdYvP6O1w12yW3tOU8vcid1X/
Dhu4WOlqecmI9CXJ6Gl8uX7xO1gbilxvlrZLL!b8I7QVkmwpJ2jic4bJwTRe4y/iVkg+j/
```

```
+66d998E4H25WVQV9SBsB3Qar7SdP0Do/qa1kra57vcw!7A==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1216
X-Original-Lines: 1
X-Original-Bytes: 1133
```

Hello Homebrewers,

I wrote an article for my website showing how to make a home brew 9 volt battery clip from recycled parts. Makes a good excuse to fire up the soldering iron.

http://tinyurl.com/9jotj6b

73,

NJ2X

--
nj2x

```
From -4123044011206244715
X-Google-Thread: fc2a5,54dd2b3d8dc681b9,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.83.161 with SMTP id r1mr887142pay.28.1351215900914;
        Thu, 25 Oct 2012 18:45:00 -0700 (PDT)
MIME-Version: 1.0
Received: by 10.68.216.132 with SMTP id oq4mr6802850pbc.8.1351215900899; Thu,
 25 Oct 2012 18:45:00 -0700 (PDT)
Path: 6ni27259pbd.1!nntp.google.com!kt20no10805885pbb.1!postnews.google.com!
ph9g2000pbb.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Thu, 25 Oct 2012 18:45:00 -0700 (PDT)
Complaints-To: groups-abuse@google.com
Injection-Info: ph9g2000pbb.googlegroups.com; posting-host=117.199.248.121;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
NNTP-Posting-Host: 117.199.248.121
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:16.0) Gecko/20100101 Firefox/
16.0,gzip(gfe)
Message-ID: <ba4d83dd-ec46-48ea-a575-66f9a352ffa1@ph9g2000pbb.googlegroups.com>
Subject: HOT SEXY SUPER VIDEOS AND CUTE KISS PHOTOS]
```

```
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Injection-Date: Fri, 26 Oct 2012 01:45:00 +0000
Content-Type: text/plain; charset=ISO-8859-1

      A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.in/

             ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.in/2010/09/hot-lip-kiss-135.html

               ALL  JOBS   SITES FREE SEE

http://jobstwo.blogspot.in/

HOT VIDEOS

http://hotvideotoou.blogspot.in/2011/01/kiss-videos.html

hot lip kiss
http://hotvidos.blogspot.in/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.in/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.in/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.in/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.in/2010/07/tamil-hot-videos.html


From 8349537690480703233
X-Google-Thread: 241b302a50,d92c9bb000aed04,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.189.16 with SMTP id dc16mr15648816qab.0.1351613561222;
        Tue, 30 Oct 2012 09:12:41 -0700 (PDT)
Received: by 10.52.96.71 with SMTP id dq7mr6169917vdb.11.1351613561157; Tue,
 30 Oct 2012 09:12:41 -0700 (PDT)
Path: gf5ni6293802qab.0!nntp.google.com!e17no14143261qar.0!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Tue, 30 Oct 2012 09:12:40 -0700 (PDT)
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=188.190.125.66;
 posting-account=lpvsOQoAAADrItjCNLUGUA4f5NKzjLsd
NNTP-Posting-Host: 188.190.125.66
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <75a16cbc-894b-4798-ae6b-ed0c3408269a@googlegroups.com>
Subject: college girls showing their tits
```

From: Iran <tamarmadgecay@gmail.com>
Injection-Date: Tue, 30 Oct 2012 16:12:41 +0000
Content-Type: text/plain; charset=ISO-8859-1

college girls showing their tits http://www.google.com/search?hl=en&q=college+girls+showing+their+tits+site:bdsm-nu.blogspot.com&btnI=I%27m+Feeling+Lucky

From -1372401533663599652
X-Google-Thread: fc2a5,4f7af9e7afd6928b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.180.84.234 with SMTP id c10mr1038948wiz.4.1351638874087;
        Tue, 30 Oct 2012 16:14:34 -0700 (PDT)
Path: q13ni109572wii.0!nntp.google.com!feeder3.cambriumusenet.nl!feed.tweaknews.nl!194.134.4.91.MISMATCH!news2.euro.net!multikabel.net!newsfeed20.multikabel.net!feeder.erje.net!eu.feeder.erje.net!eternal-september.org!feeder.eternal-september.org!mx04.eternal-september.org!.POSTED!not-for-mail
From: philo <philo@privacy.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Home Brew 9 Volt Battery Clip
Date: Tue, 30 Oct 2012 18:14:31 -0500
Organization: dis
Lines: 19
Message-ID: <k6pn0p$lmg$2@dont-email.me>
References: <nj2x.acc8598@radiobanter.com>
Mime-Version: 1.0
Injection-Date: Tue, 30 Oct 2012 23:14:33 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="1e96a4a43b3f5e70ea3fbb20c37191e0";
     logging-data="22224"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/srHnjyMPbnvUDPgScOHITVzkvdjYLTcM="
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:16.0) Gecko/20121026 Thunderbird/16.0.2
In-Reply-To: <nj2x.acc8598@radiobanter.com>
Cancel-Lock: sha1:vex37RqDQcQMMYR4LZGhuDuYjyk=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 10/23/2012 6:58 AM, nj2x wrote:
> Hello Homebrewers,
>
> I wrote an article for my website showing how to make a home brew 9 volt
> battery clip from recycled parts. Makes a good excuse to fire up the
> soldering iron.
>
> http://tinyurl.com/9jotj6b
>
> 73,

```
>
> NJ2X
>
>
>
>


Yep!


From 7836804130134747954
X-Google-Thread: 241b302a50,c2b80dee8503f1b8,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.105.205 with SMTP id u13mr11392030qao.6.1351690496222;
        Wed, 31 Oct 2012 06:34:56 -0700 (PDT)
Received: by 10.52.37.12 with SMTP id u12mr6653626vdj.8.1351690496159; Wed, 31
 Oct 2012 06:34:56 -0700 (PDT)
Path: gf5ni7629245qab.0!nntp.google.com!c7no737646qap.0!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Wed, 31 Oct 2012 06:34:55 -0700 (PDT)
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=188.190.124.69;
 posting-account=lpvsOQoAAADrItjCNLUGUA4f5NKzjLsd
NNTP-Posting-Host: 188.190.124.69
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <cfb1d2db-b9d8-405b-bf19-59e038601a00@googlegroups.com>
Subject: naught secretary hosed down by fake cum
From: Iran <tamarmadgecay@gmail.com>
Injection-Date: Wed, 31 Oct 2012 13:34:56 +0000
Content-Type: text/plain; charset=ISO-8859-1


naught secretary hosed down by fake cum http://www.google.com/search?
hl=en&q=naught+secretary+hosed+down+by+fake+cum+site:minettubas.blogspot.com&btnI=
I%27m+Feeling+Lucky


From 3881080817536972285
X-Google-Thread: e721ae2bf6,5e20cd5695524907,start
X-Google-Attributes: gide721ae2bf6,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.216.135.75 with SMTP id t53mr485822wei.0.1352366068013;
        Thu, 08 Nov 2012 01:14:28 -0800 (PST)
MIME-Version: 1.0
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
```

io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1350280801@panix.com>
Followup-To: poster
Date: 1 Nov 2012 02:00:02 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 19 Nov 2012 01:00:00 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1351749600@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1351749602 726 166.84.1.2 (1 Nov 2012 06:00:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 1 Nov 2012 06:00:02 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Path: q13ni188641wii.0!nntp.google.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!85.12.40.130.MISMATCH!xlned.com!feeder1.xlned.com!
newsfeed.xs4all.nl!newsfeed6.news.xs4all.nl!xs4all!border4.nntp.ams.giganews.com!
border2.nntp.ams.giganews.com!border2.nntp.dca.giganews.com!
border3.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
news.mccarragher.com!news.grnet.gr!goblin1!goblin.stu.neva.ru!feeds.phibee-
telecom.net!ecngs!feeder2.ecngs.de!proxad.net!feeder1-1.proxad.net!
198.186.194.247.MISMATCH!news-out.readnews.com!transit3.readnews.com!panix!
panix2.panix.com!not-for-mail

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted twice monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader
opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. After a successful trial |
period (90 days, through early July 2009), we decided to adopt this |
change permanently. |

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From -3649597939927410963
X-Google-Thread: 107ada,18f836c55c6e4050,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,18f836c55c6e4050,start
X-Google-NewGroupId: yes
X-Google-Attributes: gida3e752f117,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.73.226 with SMTP id o2mr12567187pav.12.1351766586165;
        Thu, 01 Nov 2012 03:43:06 -0700 (PDT)
Path: s9ni73946pbb.0!nntp.google.com!news.glorb.com!news-out.readnews.com!
transit4.readnews.com!panix!rri.panix.com!robomod!not-for-mail
From: rec-radio-info-request@panix.com (SolderSmoke via rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.
radio.info
Subject: SolderSmoke Podcast for Thursday  1 November 2012
Followup-To:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Date: Thu, 1 Nov 2012 06:43:05 EDT
Organization: SolderSmoke
Lines: 12
Approved: RRI Admin <rec-radio-info-request@panix.com>
Message-ID: <e89a8f235545ac49cf04cd6c3f07@google.com>
NNTP-Posting-Host: panix6.panix.com
Mime-Version: 1.0
```

```
X-Trace: reader1.panix.com 1351766585 18375 166.84.1.6 (1 Nov 2012 10:43:05 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 1 Nov 2012 10:43:05 +0000 (UTC)
X-RRI-Policy: http://www.panix.com/~rram/usenet/rri/index.html
X-RRI-Info-1: Send submissions to             rec-radio-info@panix.com
X-RRI-Info-2: Send technical complaints to    rec-radio-info-request@panix.com
X-RRI-Info-3: Send complaints about policy to rec-radio-info-request@panix.com
X-Comment-1: The moderators do not necessarily agree or disagree with this
article.
X-Comment-2: Moderators do not verify the accuracy of posted information.
X-Comment-3: Acceptance does not convey approval of any external references.
X-Robomod: STUMP, ichudov@algebra.com (Igor Chudov), C++/Perl/Unix Consulting
X-Moderation-1: Hassle-Free commercial hosting of moderation sites available
X-Moderation-2: See http://www.algebra.com/~ichudov/stump
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
        d=google.com; s=20120113;
        h=mime-version:sender:precedence:message-id:date:subject:from:to
         :content-type;
        bh=v2SdqGv8oHuiKbVQbK6QeWs8T5x8KjXmgnCim+JT5Dk=;
        b=fYzVuVAajDjgDMm5R7WtaqEk8Q48b5Rg2KoWComfp7g5D+wB/bUb4aVnsmTLJviIFI
         DcvJsyGi4WfPXHoOPmQhxY59byRHEz4PZLqO/Qmzu+zFct5LnTA33T7L2D+lonENj0lJ
         SzVovH61YI7Mpp4EhEw54AmWKim3dhfTCeizJ38u9HHDePQUHNYXLDqeQcKus+8/uP/R
         pBtuNvfiRS42gV8fDEQo+JzFeQOjXf5cjSIK7dzbfkxoTEss4uZX/FkIHF7lNTsb8ruf
         X7XqxbRmgZSmAzWJF4CMaCU4LSyH5cFHYQmYx7x6F6QJACTWoeSc87qZQemf/OfgTm8F
         vgMw==
X-StripMime: Non-text section removed by stripmime
Content-Type: text/plain; charset=UTF-8; format=flowed; delsp=yes
```

SolderSmoke Podcasts

//
SolderSmoke147`

Posted: 30 Oct 2012 02:47 AM PDT

SolderSmoke issue 147
This posting includes a media file:
http://www.soldersmoke.com/soldersmoke147.mp3

```
From 9055620475913321001
X-Google-Thread: fc2a5,af56df8f149613da,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.85.137 with SMTP id h9mr158852paz.16.1351822147297;
        Thu, 01 Nov 2012 19:09:07 -0700 (PDT)
MIME-Version: 1.0
Received: by 10.68.252.74 with SMTP id zq10mr118229pbc.5.1351822147281; Thu,
 01 Nov 2012 19:09:07 -0700 (PDT)
Path: s9ni74817pbb.0!nntp.google.com!kr7no28686790pbb.0!postnews.google.com!
```

```
vy11g2000pbb.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Thu, 1 Nov 2012 19:09:07 -0700 (PDT)
Complaints-To: groups-abuse@google.com
Injection-Info: vy11g2000pbb.googlegroups.com; posting-host=117.199.245.11;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
NNTP-Posting-Host: 117.199.245.11
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:16.0) Gecko/20100101 Firefox/
16.0,gzip(gfe)
Message-ID: <7b7da609-24c1-4005-ad97-fe2cdae22c6c@vy11g2000pbb.googlegroups.com>
Subject: HOT VIDEOS 2 HOT PEOPLE AND ACTRESSES NEVER SEEN PHOTOS
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Injection-Date: Fri, 02 Nov 2012 02:09:07 +0000
Content-Type: text/plain; charset=ISO-8859-1

     VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.in/2011/06/real-kiss-hot-videos.html

  HOT HOT LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/hot-for-youth.html
SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-101.html
YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.in/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.in/2010/06/supr-hot-never-seen.html
SUPER HOT NEVER SEEN
http://hotvideosfreesee.blogspot.in/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.in/2010/06/kajal-best-lip-kiss.html

for mopre hot videos
http://allvideosforyouth.blogspot.in/2010/08/super-hot-lip-kiss.html

     jobs
http://alljobsaywhere.blogspot.in/

              mobile

mobile games free download
http://mobileallinforation.blogspot.in



 interview question
java interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/java-interview-questions-
and-answers.html
oracle interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/oracle-interview-
questions-and-answers.html
hardware interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/hardware-interview-
```

questions-and-answers.html
networking interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/networking-interview-questions-and.html
dotnet interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/dotnet-interview-questions-and-answers.html
c interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/c-interview-questions-and-answers.html
datawarehousing interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/datawarehousing-interview-questions-and.html
sap interview questions and answers
http://alljobsandinterviwquestions.blogspot.com/2012/08/sap-interview-questions-and-answers.html

all jobs
java jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/java-jobs.html
oracle jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/oracle-jobs.html
sap jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/sap-jobs.html
hardware jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/hardware-jobs.html
networking jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/networking-jobs.html
datawarehousing jobs
http://alljobsandinterviwquestions.blogspot.com/2012/08/datawarehousing-jobs.html
GOOGLE ADSENSE
http://alljobsandinterviwquestions.blogspot.com/2012/08/google-adsense.html

---

```
From 7029173756345617219
X-Google-Thread: fc2a5,4e69a7150e1f0ecd,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.78.40 with SMTP id y8mr3496173paw.9.1352113371702;
        Mon, 05 Nov 2012 03:02:51 -0800 (PST)
MIME-Version: 1.0
Path: 6ni63286pbd.1!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 05 Nov 2012 05:02:51 -0600
From: Camerart <Camerart.add54b8@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Foxx-3
```

```
Date: Mon, 5 Nov 2012 10:05:12 +0000
Message-ID: <Camerart.add54b8@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
Lines: 22
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
IiyyWfQIiQoSsf9QWBCSo9MJL2oVrL1BpARN4Pd98YTNjOY6YhH4G78sATZKg3CcX7uJWd6q4y6hw/0!
MPL0VVhE8SrmlDGHv1F43OKnFoRoUD9AFrqUTC5TwaO6Mq3YJWUd25ukPWhW0BihQNOJEcNJfdVh!
COkXago=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 1531
X-Original-Lines: 11
X-Original-Bytes: 1448
```

Hi all,

I've just completed a FOXX-3 radio kit. 40MTR 1W 12V.

I've played with crystal sets, many years ago, when I would try a million set-ups for aerial and earth, but now i would like to be a bit more precise.

I've made an aerial somewhere near the suggested ideas (end feed 1/2 wave), but on switching on. I don't get any signal from the earphone.

What I would like to know is, should any aerial work, just to find out if the radio works, or if the aerial is out of tune, will there be no signal.

Cheers, Camerart.

--
Camerart

```
From 8952706193855203747
X-Google-Thread: fc2a5,4e69a7150e1f0ecd
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.81.170 with SMTP id b10mr3344025pay.31.1352126286968;
        Mon, 05 Nov 2012 06:38:06 -0800 (PST)
```

MIME-Version: 1.0
Path: s9ni81635pbb.0!nntp.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 05 Nov 2012 08:38:06 -0600
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Camerart.add54b8@radiobanter.com>
Subject: Re: Foxx-3
Date: Mon, 5 Nov 2012 09:38:03 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
Message-ID: <RN6dnanTq8TTUgrNnZ2dnUVZ_uednZ2d@earthlink.com>
Lines: 30
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.148.196.5
X-Trace: sv3-pCVI6MQr9lF11iUSaIZQtaVkiP5PjuNSm9O9OVzBuoz/kKyk/G0baOBKcdoYWGulDei9WxuG3PrK6NR!fNOy5TQK0S0dH+EEdOyKWJEJzQtNEvlWbITRz8xbGj+4KFOfxpqhaKz7sPjCl6LOd6ixFUQjY8OV!D9glyTdhxufu71ZUeMY=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Bytes: 2195
X-Original-Bytes: 2134

"Camerart" <Camerart.add54b8@radiobanter.com> wrote in message news:Camerart.add54b8@radiobanter.com...

> Hi all,
>
> I've just completed a FOXX-3 radio kit. 40MTR 1W 12V.
>
> I've played with crystal sets, many years ago, when I would try a million set-ups for aerial and earth, but now i would like to be a bit more precise.
>
> I've made an aerial somewhere near the suggested ideas (end feed 1/2 wave), but on switching on. I don't get any signal from the earphone.
>
> What I would like to know is, should any aerial work, just to find out if the radio works, or if the aerial is out of tune, will there be no signal.

On 40 meters just about any wire more than 20 feet long outside should bring lots of signals. For receive only, you could just stick a 20 foot or longer wire in the antenna jack and hear something unless you are inside a building that has lots of material that radio waves will not penetrate.

If you have an antenna up that is even within 50% of being intune it should
receive lots of signals.

```
From 397306626231104563
X-Google-Thread: fc2a5,4e69a7150e1f0ecd
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.248.34 with SMTP id yj2mr4242894pbc.2.1352156574785;
        Mon, 05 Nov 2012 15:02:54 -0800 (PST)
MIME-Version: 1.0
Path: 6ni64217pbd.1!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 05 Nov 2012 17:02:54 -0600
From: Camerart <Camerart.addfd78@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Foxx-3
Date: Mon, 5 Nov 2012 17:29:51 +0000
Message-ID: <Camerart.addfd78@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
References: <Camerart.add54b8@radiobanter.com>
<RN6dnanTq8TTUgrNnZ2dnUVZ_uednZ2d@earthlink.com>
Lines: 46
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-fpq6aW08+BHuatYrfJ4C/
eRXvoy5sggDlezSmyuCuh1Fv25H61hwpGnZj75tMXNs7v4f3qF/L2P4oBp!
Zmq0FmlyBTr2MdiHcwr3WrGjK647+S0fWBrhgvp9enBk1aSxvTH+HEY3yZa2I4GyCFqS5Errc+QG!
Gh92d6Y=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 2454
X-Original-Lines: 34
X-Original-Bytes: 2371
```

Ralph Mowery;798263 Wrote:
> "Camerart" Camerart.add54b8@radiobanter.com wrote in message
> news:Camerart.add54b8@radiobanter.com...-
>
> Hi all,

>
> I've just completed a FOXX-3 radio kit. 40MTR 1W 12V.
>
> I've played with crystal sets, many years ago, when I would try a
> million set-ups for aerial and earth, but now i would like to be a bit
> more precise.
>
> I've made an aerial somewhere near the suggested ideas (end feed 1/2
> wave), but on switching on. I don't get any signal from the earphone.
>
> What I would like to know is, should any aerial work, just to find out
> if the radio works, or if the aerial is out of tune, will there be no
> signal.
> -
>
> On 40 meters just about any wire more than 20 feet long outside should
> bring
> lots of signals. For receive only, you could just stick a 20 foot or
> longer
> wire in the antenna jack and hear something unless you are inside a
> building that has lots of material that radio waves will not penetrate.
>
> If you have an antenna up that is even within 50% of being intune it
> should
> receive lots of signals.

Thanks Ralph,

All I get is a click when I touch a 30ft wire. I've tried moving it
through the circuit and it goes from clicks to a mains hum about 1/2
way.

There is a filter circuit, after the aerial.

Cheers, Camerart.

--
Camerart

From -7892130432034237118
X-Google-Thread: fc2a5,4e69a7150e1f0ecd
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.77.131 with SMTP id s3mr201178paw.24.1352196701826;
        Tue, 06 Nov 2012 02:11:41 -0800 (PST)
MIME-Version: 1.0
Path: s9ni83309pbb.0!nntp.google.com!news.glorb.com!news.astraweb.com!
border6.newsrouter.astraweb.com!not-for-mail

From: "vk3ye" <nospam@nospam.org>
Newsgroups: rec.radio.amateur.homebrew
References: <Camerart.add54b8@radiobanter.com>
<RN6dnanTq8TTUgrNnZ2dnUVZ_uednZ2d@earthlink.com>
<Camerart.addfd78@radiobanter.com>
Subject: Re: Foxx-3
Date: Tue, 6 Nov 2012 21:11:39 +1100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
Lines: 42
Message-ID: <5098e25d$0$29879$c3e8da3$5496439d@news.astraweb.com>
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: db920e1f.news.astraweb.com
X-Trace: DXC=LJK?\7khLFK0UO2<>T]L;AL?0kYOcDh@J7^o:UA4R?cENUD]k];EK]N]G;2>V^?kWC2Of6BS7?ncJcf7QHEd8_YL9BSaW\da=EA

"Camerart" <Camerart.addfd78@radiobanter.com> wrote in message
news:Camerart.addfd78@radiobanter.com...

> All I get is a click when I touch a 30ft wire. I've tried moving it
> through the circuit and it goes from clicks to a mains hum about 1/2
> way.

30ft is near enough to a quarter wavelength on 7 MHz so that should be long enough to pick up signals, especially if you've got an earth connection. An end-fed half wave is a high impedance antenna and your transceiver is low impedance. If you do use an end-fed half wave you need a L-match type antenna coupler to ensure good power transfer.

I'm guessing the mains hum is heard when tapping at the input of the audio amplifier. This proves that the audio chain is working at least.

If not there's a problem with the receiver's detector that in this design is the final amplifier stage. Have you tried a locally generated signal to see if that's heard? If it isn't I'd be checking to see if the xtal osc is functioning.

It should work given the number built, but I haven't had great performance from similar circuits; and the Foxx receiver is very much a compromise. Something with a few more parts will deliver appreciably better performance. Also stages that do only one thing are easier to optimise and troubleshoot than those that try to do lots in a few stages.

I find it interesting that a design that uses 3 transistors for switching and 1 transistor for sidetone can't afford to add 4 diodes and maybe an audio preamp to form a decent receiver with a good balanced mixer. My own bias would be to compromise on the switching but not on the receiver performance. A good but still simple DC receiver is something like http://www.phonestack.com/farhan/dc40.html   My version is demonstrated at http://www.youtube.com/watch?v=Tc2ofe7T7Rw

Still, the above is a bit of a rant and if lots of others have got it working fine, yours should work too. When you do it pays to use a resonant 40 metre dipole rather than a random wire (better receivers are less critical due to higher sensitivity & selectivity).

```
From 6900778218916465708
X-Google-Thread: fc2a5,14e7107f35fe7934,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.84.202 with SMTP id b10mr185514paz.43.1352197094378;
        Tue, 06 Nov 2012 02:18:14 -0800 (PST)
Received: by 10.68.141.45 with SMTP id rl13mr144174pbb.8.1352197094364; Tue,
 06 Nov 2012 02:18:14 -0800 (PST)
Path: s9ni82046pbb.0!nntp.google.com!kt20no33511361pbb.1!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Tue, 6 Nov 2012 02:18:14 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=121.74.134.111;
 posting-account=MDB8GAoAAAC2vJIRaZ1FFTjwrthBdmV3
NNTP-Posting-Host: 121.74.134.111
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <0c69e395-1d12-46b1-b57c-3f766672faf3@googlegroups.com>
Subject: Wes Hayward hybrid cascode amplifiers from 2007 QST.
From: clifford wright <crite40@gmail.com>
Injection-Date: Tue, 06 Nov 2012 10:18:14 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

Has anyone else tried these circuits?
I have built 2 examples, a 9 MHZ AGC controlled amplifier and a 20 dB wideband amp for a noise cancelling system.
BIG problems! The diode string in the source of the FET always biases the J310 OFF.
Result, no gain or a loss!!!
It took me an hour or two to twig what was going on. The trouble is that I cannot see how it can possibly work when the gate is referenced to ground. It is equivalent biasing off a valve!
Not only that, but the AGC circuit published at the same time had extreme instability in the front end of the AGC amplifier. I am a VERY experienced electronics person (60 years) and was unable to find any obvious reason for this.
SO Now I have actually began to lose faith in one of my favourite engineers.
Or, have I done something really stupid in my old age.
FYI the circuits were built "dead bug" style with extensive shielding and full decoupling.

```
From 5175631632002852682
X-Google-Thread: fc2a5,4e69a7150e1f0ecd
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.80.4 with SMTP id n4mr103403pax.7.1352242981864;
        Tue, 06 Nov 2012 15:03:01 -0800 (PST)
MIME-Version: 1.0
Path: s9ni84339pbb.0!nntp.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 06 Nov 2012 17:03:00 -0600
From: Camerart <Camerart.adf4ef9@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Foxx-3
Date: Tue, 6 Nov 2012 17:25:56 +0000
Message-ID: <Camerart.adf4ef9@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
References: <Camerart.add54b8@radiobanter.com>
<RN6dnanTq8TTUgrNnZ2dnUVZ_uednZ2d@earthlink.com>
<Camerart.addfd78@radiobanter.com>
<5098e25d$0$29879$c3e8da3$5496439d@news.astraweb.com>
Lines: 78
X-Usenet-Provider: http://www.giganews.com
X-Trace:
sv3-0FIh853O30rmlWOxvR9HOBE8xqGUcDSpFvZBbrAuNW4LgSaRMOgS5lyKL3NKkeI1Py16LMmnIGNmQ+
J!P4xT8OIN29spRHIrzz5Gm3dhMqEQePDIHaLJu6C6H2c1mqzkaNb49JUYumeAWvg2m76KICwZR5vx!
inwFCsk=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 4185
X-Original-Lines: 47
X-Original-Bytes: 4102
X-Received-Bytes: 4265
```

vk3ye;798294 Wrote:

> "Camerart" Camerart.addfd78@radiobanter.com wrote in message
> news:Camerart.addfd78@radiobanter.com...
> -
> All I get is a click when I touch a 30ft wire. I've tried moving it
> through the circuit and it goes from clicks to a mains hum about 1/2
> way.-
>
> 30ft is near enough to a quarter wavelength on 7 MHz so that should be

> long
> enough to pick up signals, especially if you've got an earth connection.
> An
> end-fed half wave is a high impedance antenna and your transceiver is
> low
> impedance. If you do use an end-fed half wave you need a L-match type
> antenna coupler to ensure good power transfer.
>
> I'm guessing the mains hum is heard when tapping at the input of the
> audio
> amplifier. This proves that the audio chain is working at least.
>
> If not there's a problem with the receiver's detector that in this
> design is
> the final amplifier stage. Have you tried a locally generated signal to
> see
> if that's heard? If it isn't I'd be checking to see if the xtal osc is
> functioning.
>
> It should work given the number built, but I haven't had great
> performance
> from similar circuits; and the Foxx receiver is very much a compromise.
>
> Something with a few more parts will deliver appreciably better
> performance.
> Also stages that do only one thing are easier to optimise and
> troubleshoot
> than those that try to do lots in a few stages.
>
> I find it interesting that a design that uses 3 transistors for
> switching
> and 1 transistor for sidetone can't afford to add 4 diodes and maybe an
>
> audio preamp to form a decent receiver with a good balanced mixer. My
> own
> bias would be to compromise on the switching but not on the receiver
> performance. A good but still simple DC receiver is something like
> http://www.phonestack.com/farhan/dc40.html   My version is demonstrated
> at
> http://www.youtube.com/watch?v=Tc2ofe7T7Rw
>
> Still, the above is a bit of a rant and if lots of others have got it
> working fine, yours should work too. When you do it pays to use a
> resonant
> 40 metre dipole rather than a random wire (better receivers are less
> critical due to higher sensitivity & selectivity).

Thanks vk3ye,

I've just joined a Ham culb and this is my first radio. I got my
licence in 1985, so I must have learned this all before, and forgotten
it?? There is also someone at this club who is making one. He will
help me as well. I asked this forum, as a way of getting a perhaps

different view, also as a crash course for me.

I'm puzzled about one transisor, at the point where I get a mains hum between it and the earphone and I can check there is a connection from the aerial conector and this transistor. I tried an oscilloscope on the transistor, there is a crystal frequency at the Base, but not much on the pin that goes on towards the earphone. I don't know what to expect. but I feel suspicious.

Thanks, Camerart.

--
Camerart

```
From 6191388713319643131
X-Google-Thread: fcc6e,ace61cb34aa4d0ad,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,ace61cb34aa4d0ad,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,ace61cb34aa4d0ad,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid241b302a50,gide721ae2bf6,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.88.200 with SMTP id bi8mr1271097pab.27.1352271901382;
        Tue, 06 Nov 2012 23:05:01 -0800 (PST)
MIME-Version: 1.0
Path: s9ni85078pbb.0!nntp.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!novia!news-out.readnews.com!transit4.readnews.com!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1350885900@panix.com>
Followup-To: poster
Date: 7 Nov 2012 02:05:00 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 25 Nov 2012 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1352271900@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1352271901 20323 166.84.1.2 (7 Nov 2012 07:05:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 7 Nov 2012 07:05:01 +0000 (UTC)
```

Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Bytes: 3549

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted twice monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |
rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

```
From 2466392745363718774
X-Google-Thread: fc2a5,4e69a7150e1f0ecd
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.81.129 with SMTP id a1mr1688796pay.30.1352286209379;
        Wed, 07 Nov 2012 03:03:29 -0800 (PST)
MIME-Version: 1.0
Path: s9ni85395pbb.0!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 07 Nov 2012 05:03:28 -0600
From: Camerart <Camerart.adff7b8@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Foxx-3
Date: Wed, 7 Nov 2012 09:49:16 +0000
Message-ID: <Camerart.adff7b8@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
References: <Camerart.add54b8@radiobanter.com>
<RN6dnanTq8TTUgrNnZ2dnUVZ_uednZ2d@earthlink.com>
<Camerart.addfd78@radiobanter.com>
<5098e25d$0$29879$c3e8da3$5496439d@news.astraweb.com>
<Camerart.adf4ef9@radiobanter.com>
Lines: 32
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
VaQYdEGV9tBbfNfnBHftgFUKwAqPFMTd72kKM2M8KqcYVKW6IID3Uxf0pFBV3a8ZdYtfbkEIsIFbLjn!
ObCtrGaqGrdorbah+F7t/184cKt6/KRB/Dpld8fL3YHtyFn3Gp2nchevPwK6OVWWYKke4qZy7es/!
0Nd4z3U=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 2326
X-Original-Lines: 13
X-Original-Bytes: 2243
```

Camerart;798306 Wrote:

> Thanks vk3ye,
>
> I've just joined a Ham culb and this is my first radio. I got my
> licence in 1985, so I must have learned this all before, and forgotten
> it?? There is also someone at this club who is making one. He will
> help me as well. I asked this forum, as a way of getting a perhaps

> different view, also as a crash course for me.
>
> I'm puzzled about one transisor, at the point where I get a mains hum
> between it and the earphone and I can check there is a connection from
> the aerial connector and this transistor. I tried an oscilloscope on
> the transistor, there is a crystal frequency at the Base, but not much
> on the pin that goes on towards the earphone. I don't know what to
> expect. but I feel suspicious.
>
> Thanks, Camerart.

FOXX-3 update,

Last night, I remembered there is an offset side tone control, that I hadn't touched yet. I tried turning it, and this seemed to start it up. I could hear faint morse code. This morning I'm going to try to tune the aerial, and see if I can get clearer signals.

Cheers, Camerart..

--
Camerart

```
From 4655346806126848887
X-Google-Thread: fc2a5,4e69a7150e1f0ecd
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.77.131 with SMTP id s3mr2916545paw.24.1352372574700;
        Thu, 08 Nov 2012 03:02:54 -0800 (PST)
MIME-Version: 1.0
Path: s9ni87294pbb.0!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 08 Nov 2012 05:02:54 -0600
From: Camerart <Camerart.ae14939@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Foxx-3
Date: Thu, 8 Nov 2012 10:27:06 +0000
Message-ID: <Camerart.ae14939@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
References: <Camerart.add54b8@radiobanter.com>
<RN6dnanTq8TTUgrNnZ2dnUVZ_uednZ2d@earthlink.com>
<Camerart.addfd78@radiobanter.com>
<5098e25d$0$29879$c3e8da3$5496439d@news.astraweb.com>
<Camerart.adf4ef9@radiobanter.com> <Camerart.adff7b8@radiobanter.com>
```

Lines: 31
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-bhs+5jYyhBOqSE+eFFTpHy6Np9nB4LPX0mmxvpSqhAUv5zHdYsRHmOutZbnpu/
rqxKA1Z4ItdFYh+fP!VNmcAFvteOqG+fZrj2mC5wg/I4fE03kXvl7HND9Ev/mpf98F7tvT/
N6wl684aHJQ1OAB30Ra3Mjk!d3SnmxA=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 2035
X-Original-Lines: 18
X-Original-Bytes: 1952

FOXX -3 further update.

Yesterday I changed the 10yrd wire to the recommended 20.1 MTR wire.
Before there was the faintest morse signal, now I'm back to nothing.

One question, I notice that aerials have insulators on them, I have wrapped the other end o0f the aerial round a nail on my bottom fence, is this ok.

Today I'm going to change the toroid windings, and experiment a bit.

Any tips welcome

Cheers, Camerart.

Camerart;798334 Wrote:
> FOXX-3 update,
>
> Last night, I remembered there is an offset side tone control, that I hadn't touched yet. I tried turning it, and this seemed to start it up. I could hear faint morse code. This morning I'm going to try to tune the aerial, and see if I can get clearer signals.
>
> Cheers, Camerart..

--
Camerart

From -1754275769395228353
X-Google-Thread: 241b302a50,14e7107f35fe7934
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit

Received: by 10.180.87.170 with SMTP id az10mr843939wib.0.1353056122132;
        Fri, 16 Nov 2012 00:55:22 -0800 (PST)
Path: ha8ni292771wib.1!nntp.google.com!feeder1.cambriumusenet.nl!feeder3.cambriumusenet.nl!feed.tweaknews.nl!194.109.133.85.MISMATCH!newsfeed.xs4all.nl!newsfeed6.news.xs4all.nl!xs4all!border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-hub.siol.net!news1.t-com.hr!newsfeed.CARNet.hr!news.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-13.dc1.easynews.com.POSTED!not-for-mail
From: Arid ace <nonsmoker@freedom.smokes.oil>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wes Hayward hybrid cascode amplifiers from 2007 QST.
Message-ID: <g3qo98t400pu5t2fg1aq00k92f5qq1pjbn@4ax.com>
References: <0c69e395-1d12-46b1-b57c-3f766672faf3@googlegroups.com>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Lines: 35
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Thu, 08 Nov 2012 21:36:35 -0500
X-Received-Bytes: 2748
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Tue, 6 Nov 2012 02:18:14 -0800 (PST), clifford wright <crite40@gmail.com> wrote:

>Has anyone else tried these circuits?

No, but I saw that in theory they might work.

>I have built 2 examples, a 9 MHZ AGC controlled amplifier and a 20 dB wideband amp for a noise cancelling system.
>BIG problems! The diode string in the source of the FET always biases the J310 OFF.
>Result, no gain or a loss!!!

The spread in FETs is rather high so you might have had the bad luck that the ones you used have a cut-off Vgs lower than ~ 1.8V. One issue is strange though: maximum gain occurs not at the limit of V(AGC) of 4V but at a higher voltage.
At 8V at the base, one stage (J310 +2N3409) provides for some 16 dB (voltage gain) then but about 10 dB of it is due to transformation from 50 to 2200 ohm at the input LC.

>It took me an hour or two to twig what was going on. The trouble is that I cannot see how it can possibly work when the gate is referenced to ground. It is equivalent biasing off a valve!
>Not only that, but the AGC circuit published at the same time had extreme instability in the front end of the AGC amplifier. I am a VERY experienced electronics person (60 years) and was unable to find any obvious reason for this.

It could be useful to try the circuit with a FET with much higher cut-off gate voltage. An example is BF246C and BF247C. It should work with the diodes in series with the source resistor.

>SO Now I have actually began to lose faith in one of my favourite engineers.
>Or, have I done something really stupid in my old age.
>FYI the circuits were built "dead bug" style with extensive shielding and full decoupling.

I wonder why you didn't try to get an oldie like the Plessey SL312. Look it up, and see that it's perfect for the job - it provides some 30 dB gain without an input up-transformation and with a larger AGC range.

Regards,
Jan

```
From 2068448186715634087
X-Google-Thread: fc2a5,81f7406667533b02,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.80.8 with SMTP id n8mr6279098pax.17.1352612497457;
        Sat, 10 Nov 2012 21:41:37 -0800 (PST)
MIME-Version: 1.0
Received: by 10.68.135.67 with SMTP id pq3mr4690392pbb.19.1352612497443; Sat,
 10 Nov 2012 21:41:37 -0800 (PST)
Path: s9ni3678pbb.0!nntp.google.com!kt20no1259554pbb.1!postnews.google.com!
v9g2000pbi.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Sat, 10 Nov 2012 21:41:37 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: v9g2000pbi.googlegroups.com; posting-host=117.199.255.220;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
NNTP-Posting-Host: 117.199.255.220
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:10.0.2) Gecko/20100101 Firefox/
10.0.2,gzip(gfe)
Message-ID: <a62bd796-cc3b-4f09-b571-e182aed011fd@v9g2000pbi.googlegroups.com>
Subject: HOT VIDEOS FOR YOUTH AND ALL ADULT PEOPLE 2011 SEXY PHOTOS
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Injection-Date: Sun, 11 Nov 2012 05:41:37 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.in/

ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.in/2010/09/hot-lip-kiss-135.html

ALL JOBS SITES FREE SEE

http://jobstwo.blogspot.in/

HOT VIDEOS

http://hotvideotoou.blogspot.in/2011/01/kiss-videos.html

hot lip kiss
http://hotvidos.blogspot.in/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.in/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.in/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.in/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.in/2010/07/tamil-hot-videos.html

```
From -2648540629627200376
X-Google-Thread: fc2a5,7fb686291678318e,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.80.98 with SMTP id q2mr7353615pax.33.1352691588178;
        Sun, 11 Nov 2012 19:39:48 -0800 (PST)
MIME-Version: 1.0
Path: s9ni5518pbb.0!nntp.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!
border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
novia!news-out.readnews.com!transit3.readnews.com!panix!wb8foz
From: David Lesher <wb8foz@panix.com>
Newsgroups: rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Transformer Oil Suppliers
Date: Mon, 12 Nov 2012 03:39:47 +0000 (UTC)
Organization: NRK Clinic for habitual NetNews Abusers - Beltway Annex
Lines: 10
Message-ID: <k7pr23$77i$1@reader1.panix.com>
NNTP-Posting-Host: panix5.panix.com
X-Trace: reader1.panix.com 1352691587 7410 166.84.1.5 (12 Nov 2012 03:39:47 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 12 Nov 2012 03:39:47 +0000 (UTC)
User-Agent: nn/6.7.3
Bytes: 1050
X-Received-Bytes: 1158
```

We need less than a gallon of transformer oil for coolant.
Does anyone sell such small quantities?

--

```
A host is a host from coast to coast................wb8foz@nrk.com
& no one will talk to a host that's close........[v].(301) 56-LINUX
Unless the host (that isn't close).........................pob 1433
is busy, hung or dead....................................20915-1433
```

```
From -8669959417812220870
X-Google-Thread: fc2a5,7fb686291678318e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.86.6 with SMTP id l6mr7604912paz.11.1352692746796;
        Sun, 11 Nov 2012 19:59:06 -0800 (PST)
Path: s9ni6037pbb.0!nntp.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
newshosting.com!news2.euro.net!news.mixmin.net!eternal-september.org!
feeder.eternal-september.org!mx04.eternal-september.org!.POSTED!not-for-mail
From: atec77 <"atec77 "@hotmail.com>
Newsgroups: rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Transformer Oil Suppliers
Date: Mon, 12 Nov 2012 13:59:05 +1000
Organization: A noiseless patient Spider
Lines: 20
Message-ID: <k7ps69$15g$1@dont-email.me>
References: <k7pr23$77i$1@reader1.panix.com>
Mime-Version: 1.0
Injection-Date: Mon, 12 Nov 2012 03:59:06 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-
host="c58260380d65b0dc3a4e0f4ed7cd4ea3";
     logging-data="1200"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/DEjaahW8mBx5bl64ahlQR"
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:16.0) Gecko/20121026
Thunderbird/16.0.2
In-Reply-To: <k7pr23$77i$1@reader1.panix.com>
Cancel-Lock: sha1:W712t+ngHZYns3Vnm+0OP7lwMDk=
X-Received-Bytes: 1372
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

```
On 12/11/2012 1:39 PM, David Lesher wrote:
> We need less than a gallon of transformer oil for coolant.
> Does anyone sell such small quantities?
>
>
any sort of high temp cooking oil
  transformer oil can be toxic and is difficult to find

--
```

```
X-No-Archive: Yes
```

```
From -4879928183511535644
X-Google-Thread: fc2a5,7fb686291678318e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.84.161 with SMTP id a1mr6923659paz.47.1352694716488;
        Sun, 11 Nov 2012 20:31:56 -0800 (PST)
MIME-Version: 1.0
Path: 6ni76379pbd.1!nntp.google.com!news.glorb.com!news-out.readnews.com!
transit3.readnews.com!panix!wb8foz
From: David Lesher <wb8foz@panix.com>
Newsgroups: rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Transformer Oil Suppliers
Date: Mon, 12 Nov 2012 04:31:56 +0000 (UTC)
Organization: NRK Clinic for habitual NetNews Abusers - Beltway Annex
Lines: 19
Message-ID: <k7pu3s$9d$2@reader1.panix.com>
References: <k7pr23$77i$1@reader1.panix.com> <k7ps69$15g$1@dont-email.me>
NNTP-Posting-Host: panix5.panix.com
X-Trace: reader1.panix.com 1352694716 301 166.84.1.5 (12 Nov 2012 04:31:56 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 12 Nov 2012 04:31:56 +0000 (UTC)
User-Agent: nn/6.7.3

atec77 <"atec77 "@hotmail.com> writes:

>> We need less than a gallon of transformer oil for coolant.
>> Does anyone sell such small quantities?
>>
>>
>any sort of high temp cooking oil
>  transformer oil can be toxic and is difficult to find

We don't want cooking oil.

If transformer oil is toxic, the MSDS would say so.


--
A host is a host from coast to coast.................wb8foz@nrk.com
& no one will talk to a host that's close........[v].(301) 56-LINUX
Unless the host (that isn't close).........................pob 1433
is busy, hung or dead....................................20915-1433
```

```
From -7602190960305510293
X-Google-Thread: fc2a5,7fb686291678318e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.79.40 with SMTP id g8mr6852900pax.45.1352696065910;
        Sun, 11 Nov 2012 20:54:25 -0800 (PST)
Path: 6ni76379pbd.1!nntp.google.com!news.glorb.com!feeder.erje.net!
eu.feeder.erje.net!eternal-september.org!feeder.eternal-september.org!
mx04.eternal-september.org!.POSTED!not-for-mail
From: atec77 <"atec77 "@hotmail.com>
Newsgroups: rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Transformer Oil Suppliers
Date: Mon, 12 Nov 2012 14:54:23 +1000
Organization: A noiseless patient Spider
Lines: 32
Message-ID: <k7pve0$fcv$1@dont-email.me>
References: <k7pr23$77i$1@reader1.panix.com> <k7ps69$15g$1@dont-email.me>
<k7pu3s$9d$2@reader1.panix.com>
Mime-Version: 1.0
Injection-Date: Mon, 12 Nov 2012 04:54:25 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-
host="c58260380d65b0dc3a4e0f4ed7cd4ea3";
     logging-data="15775"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+bzyO1Ku6SgqRUjwdDr2GA"
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:16.0) Gecko/20121026
Thunderbird/16.0.2
In-Reply-To: <k7pu3s$9d$2@reader1.panix.com>
Cancel-Lock: sha1:L/64jBSH4eIpLMjoKXJmg9DI8Sw=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 12/11/2012 2:31 PM, David Lesher wrote:
> atec77 <"atec77 "@hotmail.com> writes:
>
>>> We need less than a gallon of transformer oil for coolant.
>>> Does anyone sell such small quantities?
>>>
>>>
>> any sort of high temp cooking oil
>>   transformer oil can be toxic and is difficult to find
>
> We don't want cooking oil.
  not wanting it doesn't mean you shouldn't use it
>
> If transformer oil is toxic, the MSDS would say so.
  not always
  try trans fluid it works
>
>


--
```

```
X-No-Archive: Yes



From 3673247499250216964
X-Google-Thread: fc2a5,7fb686291678318e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.77.131 with SMTP id s3mr7614122paw.24.1352728810660;
        Mon, 12 Nov 2012 06:00:10 -0800 (PST)
MIME-Version: 1.0
Path: s9ni7311pbb.0!nntp.google.com!news.glorb.com!news.astraweb.com!
border6.newsrouter.astraweb.com!news-out.octanews.net!indigo.octanews.net!
news-1.mpls.iphouse.net.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Transformer Oil Suppliers
From: Bert <bert@iphouse.com>
References: <k7pr23$77i$1@reader1.panix.com> <k7ps69$15g$1@dont-email.me>
Organization: Not that you'd notice
Message-ID: <XnsA10951688FA2VeebleFetzer@216.250.188.140>
User-Agent: Xnews/2006.08.24
Date: 12 Nov 2012 14:00:10 GMT
Lines: 23
NNTP-Posting-Date: 12 Nov 2012 08:00:10 CST
NNTP-Posting-Host: bd08aa11.newsreader.iphouse.net
X-Trace: DXC=7WY17o6Z5n^oi`TlNCA5IUUU[C:R=]MbZeHS>e[L>83P4gC<H;3:^\
[c230oU7d71QX7@2h;nGb4]O72][6W<>U\
X-Complaints-To: abuse@iphouse.net

In news:k7ps69$15g$1@dont-email.me atec77 <"atec77 "@hotmail.com> wrote:

> On 12/11/2012 1:39 PM, David Lesher wrote:
>> We need less than a gallon of transformer oil for coolant.
>> Does anyone sell such small quantities?
>>
>>
> any sort of high temp cooking oil

Not cooking oil; vegetable or animal derived oils will go rancid over
time and don't handle really high temperatures very well. Mineral oil is
much more appropriate.

>   transformer oil can be toxic and is difficult to find
```

Traditional transformer oil contained PCBs. The new stuff doesn't.

MFJ sells 1 gallon bottles for $30.

http://www.mfjenterprises.com/Product.php?productid=MFJ-21

--
Bert Hyman   W0RSB   St. Paul, MN bert@iphouse.com

```
From 5924005291979454849
X-Google-Thread: fc2a5,7fb686291678318e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.251.136 with SMTP id zk8mr5915286pbc.1.1352739783928;
        Mon, 12 Nov 2012 09:03:03 -0800 (PST)
MIME-Version: 1.0
Path: s9ni6956pbb.0!nntp.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 12 Nov 2012 11:03:03 -0600
From: Channel Jumper <Channel.Jumper.ae6e398@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer Oil Suppliers
Date: Mon, 12 Nov 2012 13:37:10 +0000
Message-ID: <Channel.Jumper.ae6e398@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
References: <k7pr23$77i$1@reader1.panix.com> <k7ps69$15g$1@dont-email.me>
<k7pu3s$9d$2@reader1.panix.com>
Lines: 31
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-caVYLgsf3mLUmRfUSwIvTawlKtPMbO7jBrprnZ7h5ae049L/g9nN0dnCqFpo+4/
dGfdYUAPbWcK8KsT!/DJQm3Xc/
adEvsg6PIh+XIvqsUn9PSCoP7ExA28P54oYCpeCWMK6q4upxdc21Hibkh8cb2ccOzR5!
UxNUzpzBg5CEESs=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 2067
X-Original-Lines: 20
X-Original-Bytes: 1984
X-Received-Bytes: 2147
```

The question is - what do you want to do with it?

The old MFJ - Heathkit - Cantenna - all you needed was cooking oil.

If you want to hone an engine block - there is alternate substitutes.

If you did an internet search - you would have found what you were looking for

Amsoil has a lot of variants to their basic supply of oils.

Siemens pays to get rid of hundreds of gallons a month of transformer oil from their old transformers.

I'm sure ABB and Arriva does the same thing with their service crews.

The thing of it is - although the MSDS doesn't say or does say which is bad for you. It does not take into consideration what you plan to use it for.

Just dumping some oil inside of a transformer isn't going to hurt you.

Breathing in the vapors of transformer oil which is being aeroated by a engine hone can hurt you and can make you sick.
Especially if there is PCB's involved.

--
Channel Jumper

```
From 8308808608412447008
X-Google-Thread: fc2a5,7fb686291678318e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.213.103 with SMTP id nr7mr7864495pbc.7.1352744110636;
        Mon, 12 Nov 2012 10:15:10 -0800 (PST)
MIME-Version: 1.0
Path: 6ni77469pbd.1!nntp.google.com!news.glorb.com!border3.nntp.dca.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!novia!news-out.readnews.com!
transit4.readnews.com!panix!wb8foz
From: David Lesher <wb8foz@panix.com>
Newsgroups: rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Transformer Oil Suppliers
Date: Mon, 12 Nov 2012 18:15:10 +0000 (UTC)
Organization: NRK Clinic for habitual NetNews Abusers - Beltway Annex
Lines: 36
Message-ID: <k7rebd$oua$1@reader1.panix.com>
References: <k7pr23$77i$1@reader1.panix.com> <k7ps69$15g$1@dont-email.me>
<XnsA10951688FA2VeebleFetzer@216.250.188.140>
```

```
NNTP-Posting-Host: panix5.panix.com
X-Trace: reader1.panix.com 1352744110 25546 166.84.1.5 (12 Nov 2012 18:15:10 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 12 Nov 2012 18:15:10 +0000 (UTC)
User-Agent: nn/6.7.3

Bert <bert@iphouse.com> writes:


>Not cooking oil; vegetable or animal derived oils will go rancid over
>time and don't handle really high temperatures very well. Mineral oil is
>much more appropriate.

>>   transformer oil can be toxic and is difficult to find

>Traditional transformer oil contained PCBs. The new stuff doesn't.

>MFJ sells 1 gallon bottles for $30.

There's been no PCB's in transformer oil (or anything else
sold...) since 1979. GE is still trying to clean up the Hudson
River.

>http://www.mfjenterprises.com/Product.php?productid=MFJ-21

Thank you. This is the coolant for the motor controller
we built; for an electric Miata we've named QAR. The heat
sinks have copper tubing embedded in them. We need thermal
conductivity and electrical isolation since the heat sinks are
200V apart, and are not referenced to the frame.

We tried mineral oil but the viscosity is way too high.
Fluorinert would be ideal but would likely cost more than all we
have spent to date.  We're looking at DOT5 brake fluid as well.




--
A host is a host from coast to coast................wb8foz@nrk.com
& no one will talk to a host that's close........[v].(301) 56-LINUX
Unless the host (that isn't close).........................pob 1433
is busy, hung or dead....................................20915-1433


From -1263154123747843862
X-Google-Thread: fc2a5,7fb686291678318e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.79.40 with SMTP id g8mr7649636pax.45.1352744585175;
        Mon, 12 Nov 2012 10:23:05 -0800 (PST)
MIME-Version: 1.0
Path: 6ni77534pbd.1!nntp.google.com!border1.nntp.dca.giganews.com!
```

```
nntp.giganews.com!aqua.octanews.net!news-out.octanews.net!indigo.octanews.net!
news-1.mpls.iphouse.net.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Transformer Oil Suppliers
From: Bert <bert@iphouse.com>
References: <k7pr23$77i$1@reader1.panix.com> <k7ps69$15g$1@dont-email.me>
<XnsA10951688FA2VeebleFetzer@216.250.188.140> <k7rebd$oua$1@reader1.panix.com>
Organization: Not that you'd notice
Message-ID: <XnsA1097DFBB1F25VeebleFetzer@216.250.188.140>
User-Agent: Xnews/2006.08.24
Date: 12 Nov 2012 18:23:04 GMT
Lines: 25
NNTP-Posting-Date: 12 Nov 2012 12:23:04 CST
NNTP-Posting-Host: 8aa0034c.newsreader.iphouse.net
X-Trace: DXC=G_jWV?
[B1j<CRED;I=`Mg:UU[C:R=]Mb:eHS>e[L>830^mSjkQhWEP7c230oU7d711X7@2h;nGb4==a?MJdJDA<:
X-Complaints-To: abuse@iphouse.net
Bytes: 1615

In news:k7rebd$oua$1@reader1.panix.com David Lesher <wb8foz@panix.com>
wrote:

> Bert <bert@iphouse.com> writes:
>
>
>>Not cooking oil; vegetable or animal derived oils will go rancid over
>>time and don't handle really high temperatures very well. Mineral oil
>>is much more appropriate.
>
>>>   transformer oil can be toxic and is difficult to find
>
>>Traditional transformer oil contained PCBs. The new stuff doesn't.
>
>>MFJ sells 1 gallon bottles for $30.
>
> There's been no PCB's in transformer oil (or anything else
> sold...) since 1979. GE is still trying to clean up the Hudson
> River.

I'm old enough that products introduced in 1979 still count as "new
stuff."

--
Bert Hyman    W0RSB    St. Paul, MN  bert@iphouse.com


From -6535524452990527817
X-Google-Thread: 107ada,7fb686291678318e
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,7fb686291678318e
X-Google-NewGroupId: yes
X-Google-Attributes: gida3e752f117,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Received: by 10.66.83.35 with SMTP id n3mr8127667pay.23.1352747284375;
        Mon, 12 Nov 2012 11:08:04 -0800 (PST)
MIME-Version: 1.0
Path: s9ni7721pbb.0!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.lmi.net!news.lmi.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 12 Nov 2012 13:08:03 -0600
Newsgroups: rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Transformer Oil Suppliers
References: <k7pr23$77i$1@reader1.panix.com> <k7ps69$15g$1@dont-email.me>
<XnsA10951688FA2VeebleFetzer@216.250.188.140>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Mon, 12 Nov 2012 11:02:10 -0800
Message-ID: <imt7n9-gb4.ln1@radagast.org>
Lines: 31
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 76.191.159.165
X-Trace: sv3-sJ5/
cxvrPABXnCLv5wnzCo5RikKG5bBd0YyLAhTCCKnusLixSiFVauf415bnWx3l5hFlSzhK/u5nPZH!
z2GHZyKbefv4SGsUWyLPxIXw5rI7oQtmxBeNfvXlXYLmPD6pm9NzL+O0WGIKtw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Bytes: 2319
X-Original-Bytes: 2258

In article <XnsA10951688FA2VeebleFetzer@216.250.188.140>,
Bert <bert@iphouse.com> wrote:

>Not cooking oil; vegetable or animal derived oils will go rancid over
>time and don't handle really high temperatures very well. Mineral oil is
>much more appropriate.
>
>>   transformer oil can be toxic and is difficult to find
>
>Traditional transformer oil contained PCBs. The new stuff doesn't.
>
>MFJ sells 1 gallon bottles for $30.
>
>http://www.mfjenterprises.com/Product.php?productid=MFJ-21

Another option is to check your local animal-feed store.

Light, food-grade mineral oil is sold as a laxative for horses and
cattle.

One online source I just checked, lists it at $22 for a two-gallon tub.

If you've got a feed store near you, it might be a significantly less

```
expensive source for this sort of oil - cheaper than MFJ per gallon
and you could save the (considerable) shipping cost.

--
Dave Platt <dplatt@radagast.org>                                   AE6EO
Friends of Jade Warrior home page:  http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!


From 5743315838553404868
X-Google-Thread: fc2a5,7fb686291678318e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.135.2 with SMTP id po2mr7964342pbb.0.1352749227495;
        Mon, 12 Nov 2012 11:40:27 -0800 (PST)
MIME-Version: 1.0
Path: 6ni76275pbd.1!nntp.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!news-
out.readnews.com!transit3.readnews.com!panix!wb8foz
From: David Lesher <wb8foz@panix.com>
Newsgroups: rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Transformer Oil Suppliers
Date: Mon, 12 Nov 2012 19:40:26 +0000 (UTC)
Organization: NRK Clinic for habitual NetNews Abusers - Beltway Annex
Lines: 17
Message-ID: <k7rjba$5bd$1@reader1.panix.com>
References: <k7pr23$77i$1@reader1.panix.com> <k7ps69$15g$1@dont-email.me>
<XnsA10951688FA2VeebleFetzer@216.250.188.140> <imt7n9-gb4.ln1@radagast.org>
NNTP-Posting-Host: panix5.panix.com
X-Trace: reader1.panix.com 1352749226 5485 166.84.1.5 (12 Nov 2012 19:40:26 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 12 Nov 2012 19:40:26 +0000 (UTC)
User-Agent: nn/6.7.3
X-Received-Bytes: 1468

dplatt@radagast.org (Dave Platt) writes:



>Another option is to check your local animal-feed store.

>Light, food-grade mineral oil is sold as a laxative for horses and
>cattle.

Only some xfmr oil is mineral-based. I'm not sure what kind of
transformer oil MFJ is selling, and have a query in with them.



--
A host is a host from coast to coast................wb8foz@nrk.com
& no one will talk to a host that's close........[v].(301) 56-LINUX
Unless the host (that isn't close).........................pob 1433
```

```
is busy, hung or dead..................................20915-1433


From -1800551298959570365
X-Google-Thread: fc2a5,7fb686291678318e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.79.40 with SMTP id g8mr7752520pax.45.1352750053664;
        Mon, 12 Nov 2012 11:54:13 -0800 (PST)
MIME-Version: 1.0
Path: s9ni7778pbb.0!nntp.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-
me.highwinds-media.com!post02.iad.highwinds-media.com!STARBAND.NET-a2kHrUvQQWlmc!
not-for-mail
From: Bruce Gordon <fast@btpost.net>
Newsgroups: rec.radio.amateur.misc,rec.radio.amateur.homebrew
Mail-Copies-To: poster
Subject: Re: Transformer Oil Suppliers
Organization: Bruce's Trading Post
References: <k7pr23$77i$1@reader1.panix.com>
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
Date: Mon, 12 Nov 2012 10:54:12 -0900
Message-ID: <fast-4CBE12.10541212112012@news.starband.net>
X-Complaints-To: abuse@usenetserver.com
Lines: 11
X-Trace: 6ac0f50a1538731e5901f12154
X-Received-Bytes: 1015
Bytes: 1096

In article <k7pr23$77i$1@reader1.panix.com>,
 David Lesher <wb8foz@panix.com> wrote:

> We need less than a gallon of transformer oil for coolant.
> Does anyone sell such small quantities?

I use standard 32 Wt Turbine Oil (Hydraulic Oil Food Grade)
Hasn't been a problem for my 1Kw Cantenna, for years....

--
Bruce in Alaska   add path before the @ for email


From -7083628239739633712
X-Google-Thread: fc2a5,7fb686291678318e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.87.73 with SMTP id v9mr8213705paz.46.1352761377516;
        Mon, 12 Nov 2012 15:02:57 -0800 (PST)
MIME-Version: 1.0
Path: s9ni8190pbb.0!nntp.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
```

nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 12 Nov 2012 17:02:56 -0600
From: Channel Jumper <Channel.Jumper.ae737f8@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer Oil Suppliers
Date: Mon, 12 Nov 2012 22:09:16 +0000
Message-ID: <Channel.Jumper.ae737f8@radiobanter.com>
Organization: RadioBanter.com
User-Agent:
X-Newsreader:
X-Originating-IP:
References: <k7pr23$77i$1@reader1.panix.com> <k7ps69$15g$1@dont-email.me>
<XnsA10951688FA2VeebleFetzer@216.250.188.140>
Lines: 18
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
XN9wSY7ZGT2f1WJbzP8XK29ePEsIjkPkA6xwSkarQYihLfRCqLOXZ3sAT8HLEpxDrJbbl84OeB0hGnp!
TZE2b3pvYRgFtTPoK2HDmrBdAMNYkEHqfD4NygyIuYuyOYXhOCbgsSUPH3QFTUcPeqk8zhCvEQLZ!
CzAaFtOoSXS/9jw=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Bytes: 1511
X-Original-Lines: 11
X-Original-Bytes: 1428

Maybe I didn't read it correctly - I thought he said he wanted something that was cheap!

Cooking oil - $10.99 a gallon

Some type of industrial oil - Tractor supply? $20.00 a gallon tops!

Your MFJ oil $30.00 a gallon

$30.00 doesn't fit my description of being cheap!

We would first need to know what he wanted to use it for.

--
Channel Jumper

From 2210743542549758285
X-Google-Thread: 241b302a50,3fd33229f3119111,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes

```
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.105.205 with SMTP id u13mr8270005qao.6.1352765391466;
        Mon, 12 Nov 2012 16:09:51 -0800 (PST)
Received: by 10.52.175.73 with SMTP id by9mr4127351vdc.1.1352765391405; Mon,
 12 Nov 2012 16:09:51 -0800 (PST)
Path: gf5ni18188417qab.0!nntp.google.com!c7no23049929qap.0!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Date: Mon, 12 Nov 2012 16:09:51 -0800 (PST)
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=71.188.73.95;
posting-account=J97KcAoAAACPyStkF_YPMLJ77PKcZCXX
NNTP-Posting-Host: 71.188.73.95
User-Agent: G2/1.0
MIME-Version: 1.0
Message-ID: <c6c15770-c5c6-41c6-ae40-ac755e4c5e7f@googlegroups.com>
Subject: Stevens Model 10 Coil Winder
From: jukeboxgary@gmail.com
Injection-Date: Tue, 13 Nov 2012 00:09:51 +0000
Content-Type: text/plain; charset=ISO-8859-1
```

Greetings all,
I have a Geo. Stevens model 10 coil winder.I'm trying to find documentation on it.
Stevens mfg. can only tell me that it was made about 1944. They do not have
documents on their own products.Trying to get any info.
Thanks

```
From -3655949873688692201
X-Google-Thread: fc2a5,7fb686291678318e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.66.85.130 with SMTP id h2mr7816942paz.8.1352772763062;
        Mon, 12 Nov 2012 18:12:43 -0800 (PST)
MIME-Version: 1.0
Path: 6ni78244pbd.1!nntp.google.com!news.glorb.com!news-out.readnews.com!
transit3.readnews.com!panix!wb8foz
From: David Lesher <wb8foz@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer Oil Suppliers
Date: Tue, 13 Nov 2012 02:12:42 +0000 (UTC)
Organization: NRK Clinic for habitual NetNews Abusers - Beltway Annex
Lines: 35
Message-ID: <k7saaq$7ve$2@reader1.panix.com>
References: <k7pr23$77i$1@reader1.panix.com> <k7ps69$15g$1@dont-email.me>
<XnsA10951688FA2VeebleFetzer@216.250.188.140>
<Channel.Jumper.ae737f8@radiobanter.com>
NNTP-Posting-Host: panix5.panix.com
X-Trace: reader1.panix.com 1352772762 8174 166.84.1.5 (13 Nov 2012 02:12:42 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 13 Nov 2012 02:12:42 +0000 (UTC)
User-Agent: nn/6.7.3
```

Channel Jumper <Channel.Jumper.ae737f8@radiobanter.com> writes:

>Maybe I didn't read it correctly - I thought he said he wanted something

>that was cheap!

>Cooking oil - $10.99 a gallon

>Some type of industrial oil - Tractor supply? $20.00 a gallon tops!

>Your MFJ oil $30.00 a gallon

>$30.00 doesn't fit my description of being cheap!

Do you know what 3M Fluorinert costs??????

>--

>Channel Jumper

```
--
A host is a host from coast to coast................wb8foz@nrk.com
& no one will talk to a host that's close........[v].(301) 56-LINUX
Unless the host (that isn't close).........................pob 1433
is busy, hung or dead....................................20915-1433
```

```
From -6995532308981661200
X-Google-Thread: a4a23d5f63,6d0e583e2f9a9acd,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.224.186.20 with SMTP id cq20mr366297qab.8.1352962803714;
        Wed, 14 Nov 2012 23:00:03 -0800 (PST)
MIME-Version: 1.0
Path: gf5ni60396171qab.0!nntp.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
```

Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1351749600@panix.com>
Followup-To: poster
Date: 15 Nov 2012 02:00:02 -0500
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Dec 2012 02:00:00 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1352962800@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1352962802 18766 166.84.1.2 (15 Nov 2012 07:00:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 15 Nov 2012 07:00:02 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted twice monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader
opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/
d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. After a successful trial |
period (90 days, through early July 2009), we decided to adopt this |
change permanently. |

Approved rec.radio.amateur.* newsgroups are those that are currently
listed in the latest version of the "List of Big Eight Newsgroups" which
is crossposted monthly to news.announce.newgroups, news.groups, and
news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those
that have been created consistent with the suggestions in "So You Want
to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either

"radio.amateur" or "ham-radio" in their names, including
uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved
newsgroups up-to-date. In case we have overlooked any, and a submission
is rejected in error as a result, the rejected submitter can E-mail us
at our administrative contact address (in the signature at the bottom of
this article, and the default Reply-To for the rejection message)
requesting that it be added, and that the article be approved. We may
still choose to reject articles crossposted to any alt.* newsgroup with
an inappropriate name, including obscene language, embedded
name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.

From 8361201455672768281
X-Google-Thread: fc2a5,fff45c3357db6cfd
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.74.201 with SMTP id w9mr6796587pbv.0.1326692750609;
        Sun, 15 Jan 2012 21:45:50 -0800 (PST)
Path: lh20ni187490pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
l19g2000yqj.googlegroups.com!not-for-mail
From: rrusston@hotmail.com
Newsgroups: rec.audio.tubes,rec.radio.amateur.homebrew
Subject: Re: 7377 tube also known as QQE04-5-what was it for?
Date: Sun, 15 Jan 2012 21:39:22 -0800 (PST)
Organization: http://groups.google.com
Lines: 16
Message-ID: <33ec5988-2c75-426a-a523-d4ccd533b6dc@l19g2000yqj.googlegroups.com>
References: <fc32a268-d63b-4543-a149-b375a6da4cf8@a11g2000vbz.googlegroups.com>
 <4f12b3d5$0$7431$c3e8da3$26f9d57d@news.astraweb.com>
NNTP-Posting-Host: 64.134.155.128
Mime-Version: 1.0
X-Trace: posting.google.com 1326692750 29085 127.0.0.1 (16 Jan 2012 05:45:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 16 Jan 2012 05:45:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l19g2000yqj.googlegroups.com; posting-host=64.134.155.128;
posting-account=EnUuawoAAADYoiB3t0gLR4zyUFckP7CK
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:9.0.1) Gecko/20100101 Firefox/
9.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

On Jan 15, 5:09=A0am, mick <inva...@invalid.invalid> wrote:
> On Fri, 13 Jan 2012 21:07:23 -0800, rrusston wrote:

> > I just got four of these little buggers. What was it used for?
>
> VHF push-pull transmitter, like the rest of the QQ series. Double tetrode
> with a common cathode and common g2. Interesting pinout isn't it?
>
> I have some QQV03-10 valves that I intend to try for audio. They are
> supposed to be quite good.
>
> FU set to rec.audio.tubes
>

I was hoping someone might know some specific applications, e.g.,
equipment that used it.

```
From -268106276266593933
X-Google-Thread: f4535,fff45c3357db6cfd
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,fff45c3357db6cfd
X-Google-NewGroupId: yes
X-Google-Attributes: gidc3d68fd440,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.73.229 with SMTP id o5mr6861679pbv.7.1326695979637;
        Sun, 15 Jan 2012 22:39:39 -0800 (PST)
MIME-Version: 1.0
Path: lh20ni187622pbb.0!nntp.google.com!news1.google.com!news.glorb.com!
feeder.erje.net!news2.arglkargh.de!news.karotte.org!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: "Phil Allison" <phil_a@tpg.com.au>
Newsgroups: rec.audio.tubes,rec.radio.amateur.homebrew
Subject: Re: 7377 tube also known as QQE04-5-what was it for?
Date: Mon, 16 Jan 2012 17:39:31 +1100
Lines: 20
Message-ID: <9nhv19F1lgU1@mid.individual.net>
References: <fc32a268-d63b-4543-a149-b375a6da4cf8@a11g2000vbz.googlegroups.com>
<4f12b3d5$0$7431$c3e8da3$26f9d57d@news.astraweb.com> <33ec5988-2c75-426a-a523-
d4ccd533b6dc@l19g2000yqj.googlegroups.com>
X-Trace: individual.net RvODZfSvfH6rbjjuQ7pBSwIHRYv2jtDBBloeh0Et6QkyIMoFLR
Cancel-Lock: sha1:ZcZE1b0PxeFTnvD/x7E2maFyddo=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
```

<rrusston@hotmail.com>

I was hoping someone might know some specific applications, e.g.,
equipment that used it.

** In the early 1960s, the main uses for 960 MHz were professional, industrial and military.

You might even have found one inside a satellite.

Not the sort of gear most folk ever see.

... Phil

```
From 5086578310500787236
X-Google-Thread: fc2a5,8c106e3bce3e7322
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.129.169 with SMTP id nx9mr7801440pbb.8.1326726447511;
        Mon, 16 Jan 2012 07:07:27 -0800 (PST)
Path: lh20ni188935pbb.0!nntp.google.com!news1.google.com!news2.google.com!
news.glorb.com!feeder.erje.net!eternal-september.org!feeder.eternal-september.org!
mx04.eternal-september.org!.POSTED!not-for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Realistic Scanning Receiver for sale
Date: Mon, 16 Jan 2012 09:07:38 -0600
Organization: A noiseless patient Spider
Lines: 7
Message-ID: <jf1efe$ltm$2@dont-email.me>
References: <jb98i7$sft$2@dont-email.me>
Mime-Version: 1.0
Injection-Date: Mon, 16 Jan 2012 15:07:26 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="femdWFrCCglzKUKHHc4IVA";
     logging-data="22454"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19htiE+futevXPZwml0KHMp"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.8) Gecko/
20050511 Mnenhy/0.7.2.0
In-Reply-To: <jb98i7$sft$2@dont-email.me>
X-Accept-Language: en-us
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 120116-0, 01/16/2012), Outbound message
Cancel-Lock: sha1:bfrIaKLmQ7xx2rDoWp5NWRPrvck=
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
```

I have a Realistic PRO-2003 AM/FM scanning receiver for sale. It is in very good shape and comes with the manual. I'm asking $45 plus postage for it. You may contact me off the newsgroup.

Thanks

```
Henry



From -8292858960604783855
X-Google-Thread: fc2a5,ededc15566120395,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.129.169 with SMTP id nx9mr8957050pbb.8.1326760852023;
        Mon, 16 Jan 2012 16:40:52 -0800 (PST)
Path: lh20ni190422pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
o12g2000vbd.googlegroups.com!not-for-mail
From: Cellulapp Cellulapp <cellulapp@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: basic electronics tutorial
Date: Mon, 16 Jan 2012 16:13:41 -0800 (PST)
Organization: http://groups.google.com
Lines: 3
Message-ID: <0aa3d752-87ec-4cde-8a48-c88a567a8b49@o12g2000vbd.googlegroups.com>
NNTP-Posting-Host: 79.183.198.113
Mime-Version: 1.0
X-Trace: posting.google.com 1326760851 13136 127.0.0.1 (17 Jan 2012 00:40:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 17 Jan 2012 00:40:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o12g2000vbd.googlegroups.com; posting-host=79.183.198.113;
posting-account=05pzKwoAAABDKMo0mERFB2OYH2KdHxr7
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:9.0.1) Gecko/20100101 Firefox/
9.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

want to learn the electronics hobby? try this:

http://www.theelectronicsbook.com



From -3578569267501672758
X-Google-Thread: fc2a5,608ef7117b52e91d,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.190.99 with SMTP id gp3mr9886945pbc.1.1326790463686;
        Tue, 17 Jan 2012 00:54:23 -0800 (PST)
Path: lh20ni191688pbb.0!nntp.google.com!news2.google.com!news4.google.com!fu-
berlin.de!uni-berlin.de!news.dfncis.de!not-for-mail
From: Markus Wolfgart <markus.wolfgart@dlr.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: Pinout Sat-Rx-Tuner SAMSUNG TBCB60118BG
Date: Tue, 17 Jan 2012 09:54:21 +0100
```

```
Lines: 15
Message-ID: <9nkr9tFcj4U1@mid.dfncis.de>
Mime-Version: 1.0
X-Trace: news.dfncis.de QL0sWCY3PwmN+gCEbAPl2gKeLcxeSyuqUUU7EzbGi0FAI8VzBN5/g4EPb/
Cancel-Lock: sha1:JlfNMP1OIMCmwwfK/4Dlo43Epfw=
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:9.0) Gecko/20111219 Thunderbird/9.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

Dear OMs/XYLs,

I'm looking for the pin out of the mentioned sat tuner
in order to avoid the opening of it.

Web query was not successful so that I'm in the hope that
someone of you is able and kind to provide the information
I'm looking for.

Many thanks in advance

Markus
DL8MBY




From -1062123796246692954
X-Google-Thread: fc2a5,c63a8a0f00e2cfca,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.74.201 with SMTP id w9mr12453894pbv.0.1326860890979;
        Tue, 17 Jan 2012 20:28:10 -0800 (PST)
Path: lh20ni194714pbb.0!nntp.google.com!news2.google.com!postnews.google.com!
c9g2000pbh.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT 2 HOT SEXY BEST VIDEOS PHOTOS TOOOO U
Date: Tue, 17 Jan 2012 20:28:10 -0800 (PST)
Organization: http://groups.google.com
Lines: 35
Message-ID: <39a0ebac-5b1f-44b3-b2df-551b8fd11460@c9g2000pbh.googlegroups.com>
NNTP-Posting-Host: 117.213.128.39
Mime-Version: 1.0
X-Trace: posting.google.com 1326860890 29478 127.0.0.1 (18 Jan 2012 04:28:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 18 Jan 2012 04:28:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c9g2000pbh.googlegroups.com; posting-host=117.213.128.39; posting-
account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
```

```
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.25)
 Gecko/20111212 Firefox/3.6.25,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1



      A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.com/


             ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

               ALL  JOBS   SITES FREE SEE

http://jobstwo.blogspot.com/




HOT VIDEOS

http://hotvideotoou.blogspot.com/2011/01/kiss-videos.html




hot lip kiss
http://hotvidos.blogspot.com/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.com/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.com/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.com/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.com/2010/07/tamil-hot-videos.html






From 613120313898464253
X-Google-Thread: fc2a5,608ef7117b52e91d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.196.130 with SMTP id im2mr12781377pbc.3.1326871573832;
        Tue, 17 Jan 2012 23:26:13 -0800 (PST)
Path: lh20ni195157pbb.0!nntp.google.com!news1.google.com!eweka.nl!feeder.eweka.nl!
194.134.4.91.MISMATCH!news2.euro.net!newsfeed.freenet.ag!newsfeed.kamp.net!
newsfeed.kamp.net!fu-berlin.de!uni-berlin.de!news.dfncis.de!not-for-mail
From: Markus Wolfgart <markus.wolfgart@dlr.de>
Newsgroups: rec.radio.amateur.homebrew
```

```
Subject: Re: Pinout Sat-Rx-Tuner SAMSUNG TBCB60118BG
Date: Wed, 18 Jan 2012 08:26:13 +0100
Lines: 29
Message-ID: <9nnaglFk90U1@mid.dfncis.de>
References: <9nkr9tFcj4U1@mid.dfncis.de>
Mime-Version: 1.0
X-Trace: news.dfncis.de 5G5vUXZWkeDWwVMfzzUgdw9HjuchYmOT+b10KTaNiGcPrBUKUmFI1Kbs5p
Cancel-Lock: sha1:dpk8DZhFtVKXa/22zOnRb6tqUUY=
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:9.0) Gecko/20111219 Thunderbird/9.0
In-Reply-To: <9nkr9tFcj4U1@mid.dfncis.de>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

DearOMs/XYLs,

I forgot to mention that the listed tuner above
was part of the Kathrein analog sat receiver UDF89.

Thanks for any answer concerning my pinout request.

bye

Markus


On 17.01.2012 09:54, Markus Wolfgart wrote:
> Dear OMs/XYLs,
>
> I'm looking for the pin out of the mentioned sat tuner
> in order to avoid the opening of it.
>
> Web query was not successful so that I'm in the hope that
> someone of you is able and kind to provide the information
> I'm looking for.
>
> Many thanks in advance
>
> Markus
> DL8MBY
>
>




From 3045347198046261741
X-Google-Thread: fc2a5,608ef7117b52e91d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.191.202 with SMTP id ha10mr2344289pbc.2.1326877382914;
        Wed, 18 Jan 2012 01:03:02 -0800 (PST)
Path: lh20ni195408pbb.0!nntp.google.com!news1.google.com!news.glorb.com!
feeder.erje.net!xlned.com!feeder7.xlned.com!news2.euro.net!newsgate.cistron.nl!
```

```
newsgate.news.xs4all.nl!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Pinout Sat-Rx-Tuner SAMSUNG TBCB60118BG
References: <9nkr9tFcj4U1@mid.dfncis.de> <9nnaglFk90U1@mid.dfncis.de>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Message-ID: <slrnjhd2l0.a5b.nomail@xs8.xs4all.nl>
Date: 18 Jan 2012 09:02:24 GMT
Lines: 8
NNTP-Posting-Host: 2001:888:0:1::888
X-Trace: 1326877344 news.xs4all.nl 6909 [2001:888:0:1::888]:50380
X-Complaints-To: abuse@xs4all.nl
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
```

Markus Wolfgart <markus.wolfgart@dlr.de> wrote:

> DearOMs/XYLs,
>
> I forgot to mention that the listed tuner above
> was part of the Kathrein analog sat receiver UDF89.

How about looking in that receiver to check what the traces
run to?

```
From -1697903324385204626
X-Google-Thread: fc2a5,608ef7117b52e91d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.132.71 with SMTP id a7mr1549244bkt.6.1326885785099;
        Wed, 18 Jan 2012 03:23:05 -0800 (PST)
Path: cj8ni110648bkb.0!nntp.google.com!news2.google.com!news4.google.com!fu-
berlin.de!uni-berlin.de!news.dfncis.de!not-for-mail
From: Markus Wolfgart <markus.wolfgart@dlr.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Pinout Sat-Rx-Tuner SAMSUNG TBCB60118BG
Date: Wed, 18 Jan 2012 12:23:03 +0100
Lines: 18
Message-ID: <9nnocnFu4nU1@mid.dfncis.de>
References: <9nkr9tFcj4U1@mid.dfncis.de> <9nnaglFk90U1@mid.dfncis.de>
<slrnjhd2l0.a5b.nomail@xs8.xs4all.nl>
Mime-Version: 1.0
X-Trace: news.dfncis.de qlJRbv3WC/b6g4jceUWd7Ar+zzEb3geI58XM6af04qk6EZycYjmJOndOZ9
Cancel-Lock: sha1:xD0kb6E94nyOsGzktCsT96Pcf8g=
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:9.0) Gecko/20111219 Thunderbird/9.0
In-Reply-To: <slrnjhd2l0.a5b.nomail@xs8.xs4all.nl>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

Hi Rob,

```
that will be done by me if I don't get any satisfying response on my request.


Markus

On 18.01.2012 10:02, Rob wrote:
> Markus Wolfgart<markus.wolfgart@dlr.de>  wrote:
>> DearOMs/XYLs,
>>
>> I forgot to mention that the listed tuner above
>> was part of the Kathrein analog sat receiver UDF89.
>
> How about looking in that receiver to check what the traces
> run to?




From -7259206222565787002
X-Google-Thread: fc2a5,d0ee93c26d530015,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.189.72 with SMTP id gg8mr2545549pbc.4.1326984312202;
        Thu, 19 Jan 2012 06:45:12 -0800 (PST)
Path: lh20ni200107pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
kj5g2000pbc.googlegroups.com!not-for-mail
From: darling2525 <kousalya99@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT ACTRESS  ROMANTIC PHOTOS & VIDEOS
Date: Thu, 19 Jan 2012 06:45:11 -0800 (PST)
Organization: http://groups.google.com
Lines: 76
Message-ID: <07d506b3-f603-4072-8e10-1293fcee9c55@kj5g2000pbc.googlegroups.com>
NNTP-Posting-Host: 117.199.241.142
Mime-Version: 1.0
X-Trace: posting.google.com 1326984312 24369 127.0.0.1 (19 Jan 2012 14:45:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 19 Jan 2012 14:45:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: kj5g2000pbc.googlegroups.com; posting-host=117.199.241.142;
posting-account=FCyjXwoAAABgroTD4iFctHinmtQ2BDsm
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

 HOT ACTRESS BIKINI STILLS IN 2012 CALENDAR
http://actressgallery-kalyani.blogspot.com/2011/12/2012-actress-calendar-
wallpapers.html
   SAMANTHA SOUTHSCOPE HOT PHOTOS
```

http://actressgallery-kalyani.blogspot.com/2011/12/samantha-at-south-scope-magazine.html
DEEPIKA PADUKONE SPICY WALLPAPERS
http://actressgallery-kalyani.blogspot.com/2011/12/deepika-padukone.html
KATRINA KAIF LATEST HOT WALLPAPERS
http://actressgallery-kalyani.blogspot.com/2011/12/katrina-kaif-wallpapers.html
NIPPU MOVIE LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.com/2011/11/nippu-movie-stills.html
KAJAL AGARWAL IN BUSINESSMAN MOVIE
http://actressgallery-kalyani.blogspot.com/2012/01/kajal-agarwal-in-business-man.html
LAKSHMI RAI LATEST STILLS
http://actressgallery-kalyani.blogspot.com/2012/01/laksmi-rai-stills.html
RITU KAUR LATEST PHOTO STILLS
http://actressgallery-kalyani.blogspot.com/2012/01/ritu-kaur-stills.html
SRIKANTH DEVARA MOVIE GALLERY
http://actressgallery-kalyani.blogspot.com/2011/12/devaraya-movie-stills.html
O MANASA MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/12/o-manasa-movie-stills.html
KULLUMANALI MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/12/kullu-manali-movie-stills.html
BUSINESSMAN MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/12/businessman-movie-stills.html
LOVE FAILURE MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/12/love-failure-movie-stills.html
4FRIENDS MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/12/4-friends-movie-stills.html
NANDEESWARUDU MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/12/nandeeswarudu-movie-stills.html
HARI PRIYA HOT PHOTO STILLS
http://actressgallery-kalyani.blogspot.com/2011/12/haripariya-actress.html
SHRUTI HASSAN HOT IN 3 MOVIE
http://actressgallery-kalyani.blogspot.com/2011/11/shruti-hassan-in-3-movie.html
PANJA MOVIE LATEST STILLS
http://actressgallery-kalyani.blogspot.com/2011/11/panja-movie-stills.html
NIPPU MOVIE WORKING STILLS
http://actressgallery-kalyani.blogspot.com/2011/11/nippu-movie-stills.html

FOR FAST UPDATES IN FILM INDUSTRY
KATRINA KAIF RARE PHOTOS
http://allyouwants.blogspot.com/2011/12/katrina-kaif.html
KAJAL AGARWAL LATEST STILLS
http://allyouwants.blogspot.com/2011/03/kajal-latest-stills.html
PRIYANKA CHOPRA LATEST HOT PHOTOSHOOT
http://allyouwants.blogspot.com/2011/08/priyanka-chopra.html
TAMIL ACTRESS HOT PHOTOS&VIDEOS
http://allyouwants.blogspot.com/2011/08/tamil-actress.html

FOR ONLY HOT GUYS SEE THIS
SOUJANYA HOT PHOTO STILLS
http://hotactress-kalyani.blogspot.com/2012/01/soujanya-hot.html
LATEST HOT KATRINA KAIF PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/katrina-kaif-hot.html

ANUSHKA LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/anushka-hot.html
PRIYANKA TIWARI HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/12/priyanka-tiwari-hot.html
TAMANNA LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/tamanna-hot.html
PARUL HOT PHOTO STILLS
http://hotactress-kalyani.blogspot.com/2011/12/parul-hot.html
ADITI AGARWAL NEW ROMANTIC STILLS
http://hotactress-kalyani.blogspot.com/2011/12/aditi-agarwal-hot.html
PAYAL GHOSH HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/11/payal-ghosh-hot.html
RAGINI DWIVEDI HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/12/ragini-dwivedi.html
PARVATHI MELTON LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/11/parvathi-melton-hot.html
SARAH JANE DIAS HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/11/sarah-jane-dias-hot.html
KAJAL AGARWAL HOT SAREE STILLS
http://hotactress-kalyani.blogspot.com/2011/11/kajal-agarwal-hot-in-saree.html
POONAM KAUR HOT ROMANTIC STILLS
http://hotactress-kalyani.blogspot.com/2011/11/poonam-kaur-hot.html

---

```
From -6597508782229448633
X-Google-Thread: fc2a5,cbbb0eba13ad2146,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.213.68 with SMTP id nq4mr501619pbc.2.1327115529767;
        Fri, 20 Jan 2012 19:12:09 -0800 (PST)
Path: lh20ni205846pbb.0!nntp.google.com!news1.google.com!news2.google.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 20 Jan 2012 21:12:09 -0600
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <it9xxs.95faa78@radiobanter.com>
In-Reply-To: <it9xxs.95faa78@radiobanter.com>
Subject: Re: Looking for one low-power tube modulation transformer
Date: Fri, 20 Jan 2012 19:12:02 -0800
MIME-Version: 1.0
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18463
Message-ID: <CpedncqsbreUsIfSnZ2dnUVZ5q6dnZ2d@giganews.com>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
X-Trace:
sv3-7WMyZdRe6PEdgpaySXa93gLNo0KGgEPvKkQ6qmhndkEaH6XDtZ86c53qSAcKzGuRsHuaMedtJnJV+D
E!B03wU7monDG67KWSP3duAmP0oCxC/QxlG8fCMBw3jPr7Kc84xTbUfV6kLm4ZHJ8LCAMYmEY=
X-Complaints-To: abuse@giganews.com
```

X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2081
Content-Type: text/plain;
     format=flowed;
     charset="Windows-1252";
     reply-type=original
Content-Transfer-Encoding: 7bit

"it9xxs" <it9xxs.95faa78@radiobanter.com> wrote in message news:it9xxs.95faa78@radiobanter.com...
>
> Hi, I'm looking for a low-power modulation transformer. I'd like to
> build a QRP (5W?) tube AM transmitter for the 10m band. Thanks, 73s,
> IT9XXS

Are there any old tube type CB radios around?

I suppose size might matter, but sometimes old tube type
power transformers can come up with a "close enough"
impedance ratio.

Another old time solution was to find a tube type speaker
output transformer, with the secondary on an outside winding
which could be stripped away, making room to add a new
secondary. (keep a log of turns removed on the old
secondary, so a good estimate of new turns required)
(to get impedances fairly close.. precision not required)

Old Chief Lynn, W7LTQ

From 7623831681928000280
X-Google-Thread: fc2a5,9bc347ad687f7c88,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.73.229 with SMTP id o5mr1017249pbv.7.1327137803422;
        Sat, 21 Jan 2012 01:23:23 -0800 (PST)
Path: lh20ni206792pbb.0!nntp.google.com!news2.google.com!postnews.google.com!l19g2000yqj.googlegroups.com!not-for-mail
From: fitz <zeusrdx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: The world of science has suddenly and dramatically changed!
Date: Sat, 21 Jan 2012 01:23:23 -0800 (PST)
Organization: http://groups.google.com
Lines: 10

```
Message-ID: <1843eb78-061c-4976-94ef-2d581f4ebeee@l19g2000yqj.googlegroups.com>
NNTP-Posting-Host: 64.53.76.176
Mime-Version: 1.0
X-Trace: posting.google.com 1327137803 2671 127.0.0.1 (21 Jan 2012 09:23:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 21 Jan 2012 09:23:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l19g2000yqj.googlegroups.com; posting-host=64.53.76.176; posting-
account=A451vgoAAAByсJv5ugpkfX8QG96-xuRZ
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLEUHNKC
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; StarBand
 Version 4.0.0.2; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

The world of science has suddenly and dramatically changed!

http://www.amperefitz.com/abstract.htm

The quark spin does what the electron spin does plus more about the
strong force.

Nothing will be the same!

A new day has dawned for science!


From -6245981258540013175
X-Google-Thread: fc2a5,4b376b7643cdb309,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.223.136 with SMTP id qu8mr1354915pbc.3.1327155457031;
        Sat, 21 Jan 2012 06:17:37 -0800 (PST)
Path: lh20ni207555pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
o4g2000pbc.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT SEXY SUPER VIDEOS AND CUTE KISS PHOTOS
Date: Sat, 21 Jan 2012 06:17:36 -0800 (PST)
Organization: http://groups.google.com
Lines: 50
Message-ID: <a9890c64-f707-4f79-af93-5303467e1a84@o4g2000pbc.googlegroups.com>
NNTP-Posting-Host: 117.199.240.43
Mime-Version: 1.0
X-Trace: posting.google.com 1327155456 20492 127.0.0.1 (21 Jan 2012 14:17:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 21 Jan 2012 14:17:36 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o4g2000pbc.googlegroups.com; posting-host=117.199.240.43; posting-
account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
```

```
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.25)
 Gecko/20111212 Firefox/3.6.25,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.com/2011/06/real-kiss-hot-videos.html

HOT HOT LIP KISS
http://hotvideosfreesee.blogspot.com/2010/06/hot-for-youth.html
SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.com/2010/06/hot-101.html
YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.com/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.com/2010/06/supr-hot-never-seen.html
SUPER HOT NEVER SEEN
http://hotvideosfreesee.blogspot.com/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.com/2010/06/kajal-best-lip-kiss.html

for mopre hot videos
http://allvideosforyouth.blogspot.com/2010/08/super-hot-lip-kiss.html

jobs
http://alljobsaywhere.blogspot.com/

mobile

mobile games free download
http://mobileallinforation.blogspot.com/2010/08/mobile-games-free-download.html

mobile ringtones free download
http://mobileallinforation.blogspot.com/2010/08/mobile-ringtones-free-download.html

```
From -1157693425568854020
X-Google-Thread: fc2a5,cbbb0eba13ad2146
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.199.73 with SMTP id ji9mr1622257pbc.5.1327161656059;
        Sat, 21 Jan 2012 08:00:56 -0800 (PST)
Path: lh20ni207829pbb.0!nntp.google.com!news1.google.com!news3.google.com!
proxad.net!feeder1-2.proxad.net!usenet-fr.net!de-l.enfer-du-nord.net!
feeder2.enfer-du-nord.net!cs.uu.nl!news0.firedrake.org!news.xcski.com!ncf.ca!not-
for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for one low-power tube modulation transformer
Date: Sat, 21 Jan 2012 10:56:42 -0500
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 36
Sender: et472@72.0.192.108
Message-ID: <Pine.LNX.4.64.1201211054020.27483@darkstar.example.net>
References: <it9xxs.95faa78@radiobanter.com>
<CpedncqsbreUsIfSnZ2dnUVZ5q6dnZ2d@giganews.com>
NNTP-Posting-Host: 72.0.192.108
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1327161654 2733 72.0.192.108 (21 Jan 2012 16:00:54 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 21 Jan 2012 16:00:54 GMT
In-Reply-To: <CpedncqsbreUsIfSnZ2dnUVZ5q6dnZ2d@giganews.com>
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

On Fri, 20 Jan 2012, coffelt2 wrote:

>
> "it9xxs" <it9xxs.95faa78@radiobanter.com> wrote in message
> news:it9xxs.95faa78@radiobanter.com...
>>
>> Hi, I'm looking for a low-power modulation transformer. I'd like to
>> build a QRP (5W?) tube AM transmitter for the 10m band. Thanks, 73s,
>> IT9XXS
>
>
> Are there any old tube type CB radios around?
>
> I suppose size might matter, but sometimes old tube type
> power transformers can come up with a "close enough"
> impedance ratio.
>
I barely see solid state CB  sets around, so I suspect the
```

tube ones have long disappeared.

Besides, he's not in North America, and CB was mostly a North American thing.

> Another old time solution was to find a tube type speaker
> output transformer, with the secondary on an outside winding
> which could be stripped away, making room to add a new
> secondary. (keep a log of turns removed on the old
> secondary, so a good estimate of new turns required)
> (to get impedances fairly close.. precision not required)
>

Or find a 400Hz transformer, nobody wanted them so at one time they were not only available but cheap. Various articles said they worked fine, since voice didn't have to go down to 60Hz.

    Michael VE2BVW

```
From -4300097053603618821
X-Google-Thread: fc2a5,cbbb0eba13ad2146
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.199.73 with SMTP id ji9mr2287681pbc.5.1327194740667;
        Sat, 21 Jan 2012 17:12:20 -0800 (PST)
Path: lh20ni209274pbb.0!nntp.google.com!news2.google.com!postnews.google.com!
h6g2000yqk.googlegroups.com!not-for-mail
From: rrusston@hotmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for one low-power tube modulation transformer
Date: Sat, 21 Jan 2012 17:12:20 -0800 (PST)
Organization: http://groups.google.com
Lines: 37
Message-ID: <6ae12a53-4235-4f4a-b698-76289373375b@h6g2000yqk.googlegroups.com>
References: <it9xxs.95faa78@radiobanter.com>
<CpedncqsbreUsIfSnZ2dnUVZ5q6dnZ2d@giganews.com>
 <Pine.LNX.4.64.1201211054020.27483@darkstar.example.net>
NNTP-Posting-Host: 64.134.29.41
Mime-Version: 1.0
X-Trace: posting.google.com 1327194740 802 127.0.0.1 (22 Jan 2012 01:12:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 22 Jan 2012 01:12:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h6g2000yqk.googlegroups.com; posting-host=64.134.29.41; posting-
account=EnUuawoAAADYoiB3t0gLR4zyUFckP7CK
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:9.0.1) Gecko/20100101 Firefox/
9.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

```
Content-Transfer-Encoding: quoted-printable

On Jan 21, 9:56=A0am, Michael Black <et...@ncf.ca> wrote:
> On Fri, 20 Jan 2012, coffelt2 wrote:
>
> > "it9xxs" <it9xxs.95fa...@radiobanter.com> wrote in message
> >news:it9xxs.95faa78@radiobanter.com...
>
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>
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>
> > I suppose size might matter, but sometimes old tube type
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> > impedance ratio.
>
> I barely see solid state CB =A0sets around, so I suspect the
> tube ones have long disappeared.
>
> Besides, he's not in North America, and CB was mostly a North American
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>
> > Another old time solution was to find a tube type speaker
> > output transformer, with the secondary on an outside winding
> > which could be stripped away, making room to add a new
> > secondary. (keep a log of turns removed on the old
> > secondary, so a good estimate of new turns required)
> > (to get impedances fairly close.. precision not required)
>
> Or find a 400Hz transformer, nobody wanted them so at one time they were
> not only available but cheap. =A0Various articles said they worked fine,
> since voice didn't have to go down to 60Hz.
>
> =A0 =A0 Michael =A0VE2BVW

Get a single ended triode type of audio output transformer and drive
it from a hi-fi amp.


From -5567167087110480762
X-Google-Thread: fc2a5,2a24e6e84a097b6c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.199.73 with SMTP id ji9mr2300575pbc.5.1327195402530;
        Sat, 21 Jan 2012 17:23:22 -0800 (PST)
Path: lh20ni209302pbb.0!nntp.google.com!news2.google.com!postnews.google.com!
j15g2000yqb.googlegroups.com!not-for-mail
From: rrusston@hotmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Regenerative Radio Receiver Book
```

```
Date: Sat, 21 Jan 2012 17:23:22 -0800 (PST)
Organization: http://groups.google.com
Lines: 13
Message-ID: <1641571e-a991-40e9-9124-7c6f69374820@j15g2000yqb.googlegroups.com>
References: <43f93288-a5db-4d46-a262-9166818a99a0@d6g2000pra.googlegroups.com>
NNTP-Posting-Host: 64.134.29.41
Mime-Version: 1.0
X-Trace: posting.google.com 1327195402 7437 127.0.0.1 (22 Jan 2012 01:23:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 22 Jan 2012 01:23:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j15g2000yqb.googlegroups.com; posting-host=64.134.29.41; posting-
account=EnUuawoAAADYoiB3t0gLR4zyUFckP7CK
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:9.0.1) Gecko/20100101 Firefox/
9.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

On Dec 24 2011, 7:26=A0pm, Lemon Tree <bitterlemo...@yahoo.ie> wrote:
> I have written a short book on regenerative receiver that I have
> available here:http://www.vendio.com/stores/newproducts
> and here:http://www.webstore.com/Regenerative-Radio-Receiver-Book,name,13=
72041...
>
> I also have some negative resistance circuits and other things here:http:=
//code.google.com/p/lemontree/downloads/list

Why not build some superhets instead? They work better.

 Regens have crappy audio, making them undesireable for SWLing or
listening to the few hams worth listening to who are on AM...


From -1073225141375646494
X-Google-Thread: fc2a5,2a24e6e84a097b6c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.190.99 with SMTP id gp3mr2518168pbc.1.1327207110945;
        Sat, 21 Jan 2012 20:38:30 -0800 (PST)
Path: lh20ni209816pbb.0!nntp.google.com!news1.google.com!eweka.nl!feeder.eweka.nl!
194.109.133.84.MISMATCH!newsfeed.xs4all.nl!newsfeed5.news.xs4all.nl!xs4all!
newsgate.cistron.nl!newsgate.news.xs4all.nl!news.nosignal.org!news.xcski.com!
ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Regenerative Radio Receiver Book
Date: Sat, 21 Jan 2012 23:34:14 -0500
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 79
```

```
Sender: et472@72.0.192.99
Message-ID: <Pine.LNX.4.64.1201212322330.28222@darkstar.example.net>
References: <43f93288-a5db-4d46-a262-9166818a99a0@d6g2000pra.googlegroups.com>
 <1641571e-a991-40e9-9124-7c6f69374820@j15g2000yqb.googlegroups.com>
NNTP-Posting-Host: 72.0.192.99
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1327207109 22177 72.0.192.99 (22 Jan 2012 04:38:29 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 22 Jan 2012 04:38:29 GMT
In-Reply-To: <1641571e-a991-40e9-9124-7c6f69374820@j15g2000yqb.googlegroups.com>
Content-Type: TEXT/PLAIN; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: QUOTED-PRINTABLE

On Sat, 21 Jan 2012, rrusston@hotmail.com wrote:

> On Dec 24 2011, 7:26=A0pm, Lemon Tree <bitterlemo...@yahoo.ie> wrote:
>> I have written a short book on regenerative receiver that I have
>> available here:http://www.vendio.com/stores/newproducts
>> and here:http://www.webstore.com/Regenerative-Radio-Receiver-Book,name,1=
372041...
>>
>> I also have some negative resistance circuits and other things here:http=
://code.google.com/p/lemontree/downloads/list
>
> Why not build some superhets instead? They work better.
>
> Regens have crappy audio, making them undesireable for SWLing or
> listening to the few hams worth listening to who are on AM...
>
Because they are simple, and it's good to get something to work early on.

But I certainly had meant to ask why should anyone buy his book.  Charles=
=20
Kitchin over the past 20 years or so has done quite a bit with regen and=20
superregen receivers.  He had long articles on both in Communications=20
Quarterly, looking back to the beginning (when most people have adapted=20
more recent work, so it's like a broken telephone).  By going back to the=
=20
beginning, he was able to introduce some new concepts in superregen, which=
=20
would never come up based on most of the descriptions of the receiver.

Circa 1915, whenever Armstrong cameup with the regen, those things were=20
pretty simple, for the simple reason that tubes were expensive, and bulky.=
=20
In the transistor age, you can buy quite a few transistors for the price=20
of a tube in the old days.  Make the regen solid, like a VFO (which it=20
really is).  Add a buffer ahead of it, so the antenna doesn't affect=20
operation as much.  Use a separate detector, something so lost in it all=20
that we talk about "regenerative detector" but the actual detection is=20
secondary to the regeneration.  Add a voltage regulator, nobody would do=20
that in the old days, now it's hardly worth not doing.
```

```
That's some of the work Charles Kitchin has done with regens in recent=20
years, some very basic receivers for the beginner (including one that used=
=20
a crystal as the frequency determining element), some more complicated=20
than others.

Or go take his work and go back to the thirties, and build a supergainer=20
out of Frank C. Jones' Radio Handbook.  A compromise/hybrid, it's a regen=
=20
with a converter ahead of it, or looked at another way, a superheterodyne=
=20
with a regen detector.  Takes out some of the issues of the regen, it=20
isolates the detector from the antenna, the regen stage doesn't have to=20
cover a wide range (and if the converter is tuneable, the regen stage=20
stays on one frequency).  You can even put a crystal filter between the=20
mixer and the regen stage.

So a regen still has potential.  A simple receiver to accomplish building=
=20
something (41 years ago, I rushed down to the parts store with a list of=20
parts out of a magazine, and that project, and the one after, never=20
worked, in retrospect I can see lots of reasons why.  But I kept at it,=20
and then I did get some things going, ironically out of scrap parts,=20
having learned enough to actually know what I was doing).  But it can also=
=20
be a method of experimentation.  Not to create Something Important, but by=
=20
trying new things, one can learn.

    Michael  VE2BVW


From -598792789438105195
X-Google-Thread: fc2a5,2a24e6e84a097b6c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.135.231 with SMTP id pv7mr2333129pbb.8.1327221681127;
        Sun, 22 Jan 2012 00:41:21 -0800 (PST)
Path: lh20ni210478pbb.0!nntp.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 22 Jan 2012 02:41:20 -0600
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <43f93288-a5db-4d46-a262-9166818a99a0@d6g2000pra.googlegroups.com>
<1641571e-a991-40e9-9124-7c6f69374820@j15g2000yqb.googlegroups.com>
<Pine.LNX.4.64.1201212322330.28222@darkstar.example.net>
In-Reply-To: <Pine.LNX.4.64.1201212322330.28222@darkstar.example.net>
Subject: Re: Regenerative Radio Receiver Book
Date: Sun, 22 Jan 2012 00:41:14 -0800
MIME-Version: 1.0
X-Priority: 3
```

```
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18463
Message-ID: <eMGdndYWZsYtVobSnZ2dnUVZ5vSdnZ2d@giganews.com>
Lines: 72
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-udWSU3VGwJiTCxLfc+X2V/
K5n30WIVnpv5f9bcrerKUcXLg5fBebHXFXGlqJLv0HeBYb3AWDsMAn4PU!
uAttxUqu9V8EoaGnONTUAthgsO9mAfSANQFGTUa3Wu32IooTsyV2owGm/6mzyUjk97pgGV5Yke4=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 5190
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
```

"Michael Black" <et472@ncf.ca> wrote in message
news:Pine.LNX.4.64.1201212322330.28222@darkstar.example.net...
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>> and
>> here:http://www.webstore.com/Regenerative-Radio-Receiver-Book,name,1372041...
>>
>> I also have some negative resistance circuits and other things
>> here:http://code.google.com/p/lemontree/downloads/list
>
> Why not build some superhets instead? They work better.
>
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Michael VE2BVW

Ah, yes, the one tube (01A) regen on the broadcast band, late at night North of Seattle Washington, listening to Snake Oil Salesmen from Del Rio, Texas, With transmitters in Warez, Mexico........XERF, ISTR. A thrill that must be experienced to be believed. And the Grand Old Oprey or the Barn Dance!! KGO and KSL came in like gangbusters!!

Old Chief Lynn, W7LTQ

From 8644128603755607422
X-Google-Thread: fc2a5,b7b29875102d6252,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.135.231 with SMTP id pv7mr2495195pbb.8.1327229418461;
        Sun, 22 Jan 2012 02:50:18 -0800 (PST)
Path: lh20ni210816pbb.0!nntp.google.com!news2.google.com!postnews.google.com!
q8g2000yqa.googlegroups.com!not-for-mail
From: "Garage Repair | Locksmithing | Garage Openers" <wiseupsystems2@gmail.com>

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Garage Repair | Locksmithing | Garage Openers
Date: Sun, 22 Jan 2012 02:48:40 -0800 (PST)
Organization: http://groups.google.com
Lines: 5
Message-ID: <07d453f4-4ff1-436a-b025-49211e7b92f7@q8g2000yqa.googlegroups.com>
NNTP-Posting-Host: 202.164.49.138
Mime-Version: 1.0
X-Trace: posting.google.com 1327229418 29444 127.0.0.1 (22 Jan 2012 10:50:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 22 Jan 2012 10:50:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q8g2000yqa.googlegroups.com; posting-host=202.164.49.138; posting-
account=aSm9egoAAAAJPJpQ1sLl7AxYrKvzyEkC
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:9.0.1) Gecko/20100101 Firefox/
9.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

Portland Doors and Locks Guy is a certified Portland, Oregon company
offer Commercial, Residential and Automotive locksmith services with a
variety of installation services and door or garage repairing.

http://portlandlocksmithguy.com/

```
From -8385946985802959969
X-Google-Thread: fc2a5,cbbb0eba13ad2146
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.74.201 with SMTP id w9mr3463730pbv.0.1327251594877;
        Sun, 22 Jan 2012 08:59:54 -0800 (PST)
MIME-Version: 1.0
Path: lh20ni211774pbb.0!nntp.google.com!news1.google.com!npeer03.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!spln!
extra.newsguy.com!newsp.newsguy.com!not-for-mail
From: mzenier@eskimo.com (Mark Zenier)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for one low-power tube modulation transformer
Date: Sat, 21 Jan 2012 18:00:40 GMT
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 16
Message-ID: <jfhf8l02c5i@enews1.newsguy.com>
References: <it9xxs.95faa78@radiobanter.com>
NNTP-Posting-Host:
p0bd9e2cf0cb8df439679ee38855e48f457cfe36a2c6f19ec175c9fecd0b57c83.newsdawg.com
Originator: mzenier@eskimo.com (Mark Zenier)
```

In article <it9xxs.95faa78@radiobanter.com>,
it9xxs <it9xxs.95faa78@radiobanter.com> wrote:

>
>Hi, I'm looking for a low-power modulation transformer. I'd like to
>build a QRP (5W?) tube AM transmitter for the 10m band. Thanks, 73s,
>IT9XXS

One technique was to use only the primary of a center tapped (push pull) audio output transformer. The modulator tube, running class A, was on one side, and the other side was used as the supply for the RF output stage, with the B+ to the center tap.

Mark Zenier mzenier@eskimo.com
Googleproofaddress(account:mzenier provider:eskimo domain:com)

From 7573229540617410273
X-Google-Thread: fc2a5,cbbb0eba13ad2146
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.199.73 with SMTP id ji9mr3842515pbc.5.1327267918645;
        Sun, 22 Jan 2012 13:31:58 -0800 (PST)
Path: lh20ni212499pbb.0!nntp.google.com!news1.google.com!news.glorb.com!feeder.erje.net!news1.as3257.net!draco.tiscalinet.it!news-f2.tiscali.it!not-for-mail
Date: Sun, 22 Jan 2012 22:33:02 +0100
From: "i3hev, mario" <marioheld@tiscali.it>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, it
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for one low-power tube modulation transformer
References: <it9xxs.95faa78@radiobanter.com> <jfhf8l02c5i@enews1.newsguy.com>
In-Reply-To: <jfhf8l02c5i@enews1.newsguy.com>
Lines: 20
Message-ID: <4f1c804c$0$16659$5fc30a8@news.tiscali.it>
Organization: Tiscali SpA
NNTP-Posting-Host: 94.36.15.203
X-Trace: 1327267916 news.tiscali.it 16659 94.36.15.203:1268
X-Complaints-To: abuse@tiscali.it
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit

Mark Zenier wrote:

> One technique was to use only the primary of a center tapped (push pull)
> audio output transformer. ...

I tried it (many years ago, when I was a boy...) but it doesn't work well: most push-pull output transformers are designed for a null total cc flux (currents in the two halves of primary winding should be equal

and opposite) and, when driven in single-ended, the core saturates and
severe degradation of audio response occurs.

--
73 es 51 de i3hev, op. mario

Non � Radioamatore, se non gli fuma il saldatore!
- Campagna 2006 "Il Radioamatore non � uno che ascolta la radio"

it.hobby.radioamatori.moderato
http://digilander.libero.it/hamweb
http://digilander.libero.it/esperantovenezia

```
From -2789544534353202520
X-Google-Thread: fc2a5,cbbb0eba13ad2146
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.190.99 with SMTP id gp3mr5045905pbc.1.1327316766336;
        Mon, 23 Jan 2012 03:06:06 -0800 (PST)
MIME-Version: 1.0
Path: lh20ni214635pbb.0!nntp.google.com!news1.google.com!
newsfeed2.dallas1.level3.net!news.level3.com!bloom-beacon.mit.edu!npeer.de.kpn-
eurorings.net!npeer-ng0.de.kpn-eurorings.net!feeder.erje.net!news2.arglkargh.de!
news.glorb.com!border3.nntp.dca.giganews.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 23 Jan 2012 05:06:04 -0600
From: vu2nan <vu2nan.962f638@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for one low-power tube modulation transformer
Date: Mon, 23 Jan 2012 05:37:30 +0000
Message-ID: <vu2nan.962f638@radiobanter.com>
Organization: RadioBanter.com
References: <it9xxs.95faa78@radiobanter.com>
Lines: 23
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-hkLg1FIJXat17R6X/
FEis1yk4shWPF+M5AF5bJvX2IlGCrm7DB7wYCUrLTT2jcpEzl6/1gSFcsE2wMm!
Pd5lMZezUfttZHjkVqRi8okOE5mucQhXUWq5sKCNLnp5JLWUXihKRbX4ISayzYi6DXikK4Qc/AqO!eLJy
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 13
X-Original-Bytes: 1425
```

it9xxs;786901 Wrote:
> Hi, I'm looking for a low-power modulation transformer. I'd like to
> build a QRP (5W?) tube AM transmitter for the 10m band. Thanks, 73s,

> IT9XXS

Hi OM Giovanni,

You could use an audio amplifier tube as the modulator with its matching audio output transformer for choke modulation.

Here's how I did it.

http://nandustips.blogspot.com/2011/02/my-first-hf-transmitter.html

73

Nandu.

--
vu2nan

```
From 4201209275419135506
X-Google-Thread: fc2a5,9a13446a4a3a5364,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.190.99 with SMTP id gp3mr6619695pbc.1.1327368838735;
        Mon, 23 Jan 2012 17:33:58 -0800 (PST)
Path: lh20ni216898pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
kn4g2000pbc.googlegroups.com!not-for-mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SOUTH INDIAN HOT ACTRESS ROMANTIC STILLS
Date: Mon, 23 Jan 2012 17:33:58 -0800 (PST)
Organization: http://groups.google.com
Lines: 41
Message-ID: <705f9781-cd47-4ca9-87eb-876cd340e56f@kn4g2000pbc.googlegroups.com>
NNTP-Posting-Host: 117.199.246.132
Mime-Version: 1.0
X-Trace: posting.google.com 1327368838 31497 127.0.0.1 (24 Jan 2012 01:33:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 24 Jan 2012 01:33:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: kn4g2000pbc.googlegroups.com; posting-host=117.199.246.132;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

```
              AISHWARYA RAI LATEST HOT PICS
http://actressimages-9.blogspot.com/2012/01/aishwarya-rai.html
            KATRINA KAIF HOT MAGAZINES PHOTOS
http://actressimages-9.blogspot.com/2012/01/katrina-kaif-magazine-photos.html
                       TRISHA HOT BEAUTIFUL IMAGES
http://actressimages-9.blogspot.com/2012/01/trisha-krishnan.html
               HOT MALLIKA SHERAWAT PHOTOS
http://actressimages-9.blogspot.com/2012/01/mallika-sherawat.html
              SHEELA LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.com/2012/01/sheela-latest-stills.html
        KATRINA KAIF ITEM SONG STILLS
http://actressgallery-kalyani.blogspot.com/2012/01/katrina-kaif-item-song-
stills.html
                 NIPPU MOVIE LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.com/2011/11/nippu-movie-stills.html
     KAJAL AGARWAL  IN  BUSINESSMAN MOVIE
http://actressgallery-kalyani.blogspot.com/2012/01/kajal-agarwal-in-business-
man.html
              RITU KAUR LATEST PHOTO STILLS
http://actressgallery-kalyani.blogspot.com/2012/01/ritu-kaur-stills.html
 SHRUTI HASSAN HOT IN 3 MOVIE
http://actressgallery-kalyani.blogspot.com/2011/11/shruti-hassan-in-3-movie.html
   HOT KATRINA KAIF PHOTOS
http://actressgallery-kalyani.blogspot.com/2011/09/katrina-kaif.html
           AISHWARYA RAI HOT HQ PHOTO STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/aishwarya-rai.html
           ASIN HOT PHOTO GALLERY
http://actressgallery-kalyani.blogspot.com/2011/09/asin.html
              HANSIKA MATOWNI LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/hansika-motwani.html
                KAJAL AGARWAL HOT PHOTOS
http://actressgallery-kalyani.blogspot.com/2011/09/kajal-agarwal.html
  DEEPIKA PADUKONE SPICY WALLPAPERS
http://actressgallery-kalyani.blogspot.com/2011/12/deepika-padukone.html


          FOR FAST UPDATES IN FILM INDUSTRY
          KATRINA KAIF RARE PHOTOS
http://allyouwants.blogspot.com/2011/12/katrina-kaif.html
           KAJAL AGARWAL LATEST STILLS
http://allyouwants.blogspot.com/2011/03/kajal-latest-stills.html
   PRIYANKA CHOPRA LATEST HOT PHOTOSHOOT
http://allyouwants.blogspot.com/2011/08/priyanka-chopra.html


From -7665597446108598352
X-Google-Thread: fc2a5,cbbb0eba13ad2146
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.189.72 with SMTP id gg8mr6938508pbc.4.1327383181310;
        Mon, 23 Jan 2012 21:33:01 -0800 (PST)
Path: lh20ni217511pbb.0!nntp.google.com!news2.google.com!Xl.tags.giganews.com!
```

border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 23 Jan 2012 23:33:00 -0600
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <it9xxs.95faa78@radiobanter.com>
In-Reply-To: <it9xxs.95faa78@radiobanter.com>
Subject: Re: Looking for one low-power tube modulation transformer
Date: Mon, 23 Jan 2012 21:32:55 -0800
MIME-Version: 1.0
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18463
Message-ID: <ZqWdnTfT4v4R34PSnZ2dnUVZ5tOdnZ2d@giganews.com>
Lines: 33
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-9k4WJwo3K/
HciUgcG7255RaOJmvzfEMFkGKAgQ7eMqJqzHW+Zx6WeJjFrXAtFpy9U6G67LYWdJsQrb/!
FNAsJcdkt16nBDeT2TA5VrKAnEplBlRQ/orfwmB3EAK4bgFkgJw6JKboX6qrdLyiQLe/yvxZoOA=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2751
Content-Type: text/plain;
format=flowed;
charset="Windows-1252";
reply-type=original
Content-Transfer-Encoding: 7bit

"it9xxs" <it9xxs.95faa78@radiobanter.com> wrote in message news:it9xxs.95faa78@radiobanter.com...

>
> Hi, I'm looking for a low-power modulation transformer. I'd like to
> build a QRP (5W?) tube AM transmitter for the 10m band. Thanks, 73s,
> IT9XXS

The guys presented a lot of great ideas.. If a conventional plate modulation transformer is found, and 100% modulation of the final RF stages plate voltage is achieved, the next logical step (I think) is to introduce "Negative Peak Clipping". A highly controversial method that clipped a little of the negative modulation envelope, and added that same amplitude to the positive envelope peaks.

100% PLUS modulation! Oh, how the purists did cry! Fact is, that oscilloscope observations were convincing, over the air observations while switching the "clipper" in and out were totally convincing. It

worked! There was a little commercial AM broadcast testing, with
FCC strictly against such abhorrent practices, but it did work. I swear.

On the receiving end, the audio sounded much like the current
practice of Television stations "enhancing" commercial advertising.
The received audio amplitude would increase startlingly.

Detractors "proved" mathematically that this distortion of the AM
envelope introduced undesirable sidebands, but hey, with my
10 watts input to a 2E26 final, nobody ever complained.
Time frame, AM glory days 1955 to 1958.

Old Chief Lynn, W7LTQ

```
From 4751868462387494253
X-Google-Thread: fc2a5,cbbb0eba13ad2146
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.73.229 with SMTP id o5mr9294441pbv.7.1327459938226;
        Tue, 24 Jan 2012 18:52:18 -0800 (PST)
Path: lh20ni220833pbb.0!nntp.google.com!news1.google.com!news.glorb.com!
feeder.erje.net!eternal-september.org!feeder.eternal-september.org!mx04.eternal-
september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for one low-power tube modulation transformer
Date: Tue, 24 Jan 2012 21:52:17 -0500
Organization: A noiseless patient Spider
Lines: 12
Message-ID: <jfnqp1$qgq$1@dont-email.me>
References: <it9xxs.95faa78@radiobanter.com>
Mime-Version: 1.0
Injection-Date: Wed, 25 Jan 2012 02:52:17 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="M2ZhUN6fmEqnkYHxe/Evfg";
     logging-data="27162"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18SDWavAWD0NqeWAQML3tkWsd2efahfvEU="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.24) Gecko/20111108
Thunderbird/3.1.16
In-Reply-To: <it9xxs.95faa78@radiobanter.com>
Cancel-Lock: sha1:Udn1rRIjxOO6oRj10ewkzlBswBg=
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 01/20/2012 05:08 PM, it9xxs wrote:

> Hi, I'm looking for a low-power modulation transformer. I'd like to
> build a QRP (5W?) tube AM transmitter for the 10m band. Thanks, 73s,
> IT9XXS
>
>
>
>

Use a filament transformer. Primary winding to the plate circuit,
secondary winding driven by the output of a PA amplifier.

From -7754700248760527092
X-Google-Thread: fc2a5,fff45c3357db6cfd
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.74.201 with SMTP id w9mr494739pbv.0.1327554309175;
        Wed, 25 Jan 2012 21:05:09 -0800 (PST)
Path: lh20ni224910pbb.0!nntp.google.com!news2.google.com!postnews.google.com!f12g2000yqo.googlegroups.com!not-for-mail
From: rrusston@hotmail.com
Newsgroups: rec.audio.tubes,rec.radio.amateur.homebrew
Subject: Re: 7377 tube also known as QQE04-5-what was it for?
Date: Wed, 25 Jan 2012 21:03:47 -0800 (PST)
Organization: http://groups.google.com
Lines: 16
Message-ID: <5b3d6bfc-7e1b-4f89-8725-4769dbb0dd99@f12g2000yqo.googlegroups.com>
References: <fc32a268-d63b-4543-a149-b375a6da4cf8@a11g2000vbz.googlegroups.com>
 <4f12b3d5$0$7431$c3e8da3$26f9d57d@news.astraweb.com> <33ec5988-2c75-426a-a523-d4ccd533b6dc@l19g2000yqj.googlegroups.com>
 <9nhv19F1lgU1@mid.individual.net>
NNTP-Posting-Host: 64.134.29.102
Mime-Version: 1.0
X-Trace: posting.google.com 1327554309 21164 127.0.0.1 (26 Jan 2012 05:05:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Jan 2012 05:05:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f12g2000yqo.googlegroups.com; posting-host=64.134.29.102; posting-account=EnUuawoAAADYoiB3t0gLR4zyUFckP7CK
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:9.0.1) Gecko/20100101 Firefox/9.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

On Jan 16, 12:39=A0am, "Phil Allison" <phi...@tpg.com.au> wrote:
> <rruss...@hotmail.com>
>
> =A0I was hoping someone might know some specific applications, e.g.,
> equipment that used it.
>
> ** In the early 1960s, the main uses for 960 MHz were professional,
> industrial and military.
>
> =A0 You might even have found one inside a satellite.
>

```
> =A0 =A0Not the sort of gear most folk ever see.
>
> ... =A0 Phil

Know any product names or specific equipment types?



From -8100799329199614863
X-Google-Thread: fc2a5,2a24e6e84a097b6c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.75.170 with SMTP id d10mr494673pbw.6.1327558128884;
        Wed, 25 Jan 2012 22:08:48 -0800 (PST)
Path: lh20ni225057pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
f12g2000yqo.googlegroups.com!not-for-mail
From: rrusston@hotmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Regenerative Radio Receiver Book
Date: Wed, 25 Jan 2012 22:03:11 -0800 (PST)
Organization: http://groups.google.com
Lines: 4
Message-ID: <a2067b94-da1d-4a19-83c5-7267786d6e68@f12g2000yqo.googlegroups.com>
References: <43f93288-a5db-4d46-a262-9166818a99a0@d6g2000pra.googlegroups.com>
 <1641571e-a991-40e9-9124-7c6f69374820@j15g2000yqb.googlegroups.com>
 <Pine.LNX.4.64.1201212322330.28222@darkstar.example.net>
<eMGdndYWZsYtVobSnZ2dnUVZ5vSdnZ2d@giganews.com>
NNTP-Posting-Host: 64.134.29.102
Mime-Version: 1.0
X-Trace: posting.google.com 1327558128 27563 127.0.0.1 (26 Jan 2012 06:08:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Jan 2012 06:08:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f12g2000yqo.googlegroups.com; posting-host=64.134.29.102; posting-
account=EnUuawoAAADYoiB3t0gLR4zyUFckP7CK
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:9.0.1) Gecko/20100101 Firefox/
9.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

You could do all that or you could just add a LO and mixer and then
the radio only has to work at one frequency.
Simple.




From 6575972525621682759
X-Google-Thread: fc2a5,2a24e6e84a097b6c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Received: by 10.68.199.73 with SMTP id ji9mr3737263pbc.5.1327663245787;
        Fri, 27 Jan 2012 03:20:45 -0800 (PST)
MIME-Version: 1.0
Path: lh20ni229596pbb.0!nntp.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!news.astraweb.com!
border5.newsrouter.astraweb.com!not-for-mail
From: "vk3ye" <nospam@nospam.org>
Newsgroups: rec.radio.amateur.homebrew
References: <43f93288-a5db-4d46-a262-9166818a99a0@d6g2000pra.googlegroups.com>
<1641571e-a991-40e9-9124-7c6f69374820@j15g2000yqb.googlegroups.com>
<Pine.LNX.4.64.1201212322330.28222@darkstar.example.net>
Subject: Re: Regenerative Radio Receiver Book
Date: Fri, 27 Jan 2012 22:20:39 +1100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
Lines: 23
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Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 9119d46c.news.astraweb.com
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```

"Michael Black" <et472@ncf.ca> wrote in message
news:Pine.LNX.4.64.1201212322330.28222@darkstar.example.net...

> By going back to the
>beginning, he was able to introduce some new concepts in superregen, which
>would never come up based on most of the descriptions of the receiver.

Another good area to start off with is crystal sets, from an era when they had to be sensitive and serious receivers as they were all there was.

For SSB, CW and improved AM reception you add a 1 transistor VFO/BFO, which amongst other things brings up the sensitivity.

There's a video demo of this here:
http://www.youtube.com/watch?v=ihLbcaOvhiA

I would use this as your baseline for comparison with regenerative and direct conversion. The 'amplified crystal set' approach doesn't have the frequency pulling problems that regen sets can have.

Peter

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c6g2000vbk.googlegroups.com!not-for-mail
From: online online <online.work102@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
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Date: Sun, 29 Jan 2012 06:53:36 -0800 (PST)
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Lines: 56
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From 5434200007169840133
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X-Google-Attributes: gid241b302a50,domainid0,public,usenet
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        Tue, 31 Jan 2012 00:01:58 -0800 (PST)
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h3g2000yqe.googlegroups.com!not-for-mail
From: Rod Wesler <rodwes15@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 4110 Solution manuals to Mechanics, Mechanical Engineering and
 Aerospace Engineering Books
Date: Tue, 31 Jan 2012 00:01:57 -0800 (PST)
Organization: http://groups.google.com
Lines: 851
Message-ID: <5a8ebdea-1d8c-4d91-98bf-a36ba7950b5a@h3g2000yqe.googlegroups.com>
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X-Google-NewGroupId: yes
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From: Rod Wesler <rodwes15@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 4110 Solution manuals and Test banks to Math, Statistics and
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Date: Tue, 31 Jan 2012 00:04:49 -0800 (PST)
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Content-Transfer-Encoding: quoted-printable
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X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
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Received: by 10.68.73.229 with SMTP id o5mr13201269pbv.7.1327997231285;
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Solution Manual Java Software Solutions (Java 5.0 version) : Foundations of Program Design (4th Ed., Lewis & Loftus)
Solution Manual Java Software Solutions : Foundations of Program Design (5th Ed., Lewis & Loftus)
Solution Manual Java Software Solutions : Foundations of Program Design (6th Ed., Lewis & Loftus)
Solution Manual Starting Out with Java : From Control Structures through Data Structures (Gaddis & Muganda)
Solution Manual Object of Java, The: Introduction to Programming Using Software Engineering Principles (2nd Ed, David Riley)
Solution Manual Object-Oriented Programming in Java : A Graphical Approach, Preliminary Edition (Kathryn E. Sanders & Andy van Dam)
Solution Manual Starting Out with Java 5 : Control Structures to Objects (Tony Gaddis)
Solution Manual Starting Out with Java 5 : Early Objects (Tony Gaddis)
Solution Manual Introduction to Programming Using Java : An Object-Oriented Approach (2nd Ed., David Arnow, Scott Dexter & Gerald Weiss)
Solution Manual Computing with Java (2nd Ed., Art Gittleman)
Solution Manual Problem Solving with Java, Update (2nd Ed., Elliot B. Koffman & Ursula Wolz)
Solution Manual Starting Out with Alice : A Visual Introduction to Programming (Tony Gaddis)
Solution Manual Problem Solving and Program Design in C (4th Ed., Jeri Hanly & Elliot Koffman)

Solution Manual Problem Solving and Program Design in C (5th Ed., Jeri Hanly & Elliot Koffman)
Solution Manual Problem Solving and Program Design in C (6th Ed., Jeri Hanly & Elliot Koffman)
Solution Manual Starting Out with Visual Basic 2005 (3rd Ed., Tony Gaddis & Kip Irvine)
Solution Manual Starting Out with Visual Basic 6 (Tony Gaddis, Kip Irvine & Bruce Denton)
Solution Manual Starting Out with Visual Basic.Net (2nd Ed., Tony Gaddis, Kip Irvine & Bruce Denton)
Solution Manual Computer Programming Fundamentals with Applications in Visual Basic=AE 6.0 (Mitchell Kerman & Ronald Brown)
Solution Manual Advanced VB.NET Alternate with VB.Net CD's (3rd Ed., Kip Irvine & Tony Gaddis)
Solution Manual Advanced Visual Basic 2005 (4th Ed., Kip Irvine & Tony Gaddis)
Solution Manual C# Software Solutions : Foundations of Program Design (John Lewis)
Solution Manual Problem Solving, Abstraction and Design Using C++, Visual C++.NET Edition (Frank Friedman & Elliot Koffman)
Solution Manual Ada 95 : Problem Solving and Program Design (3rd Ed., Michael Feldman & Elliot Koffman)
Solution Manual Programming and Problem Solving with Delphi (Mitchell Kerman)
Solution Manual C Program Design for Engineers (2nd Ed., Jeri Hanly & Elliot Koffman)
Solution Manual Data Abstraction & Problem Solving with C++ (5th ed., Frank Carrano)
Solution Manual Data Structures and Algorithm Analysis in C++ (2nd Ed., Mark Allen Weiss)
Solution Manual Data Structures and Algorithm Analysis in C++ (3rd Ed., Mark Allen Weiss)
Solution Manual Data Abstraction and Problem Solving with C++ : Walls and Mirrors (4th Ed., Frank Carrano)
Solution Manual Data Structures and Problem Solving Using C++ (2nd Ed., Mark Allen Weiss)
Solution Manual Data Structures and Algorithm Analysis in Java (2nd Ed., Mark Allen Weiss)
Solution Manual Data Structures in Java : From Abstract Data Types to the Java Collections Framework (Simon Gray)
Solution Manual Data Abstraction and Problem Solving with Java (2nd Ed., Frank Carrano & Janet Prichard)
Solution Manual Data Structures and Other Objects Using Java (3rd Ed., Michael Main)
Solution Manual Data Structures and Problem Solving Using Java (3rd Ed., Mark Allen Weiss)
Solution Manual Data Structures and Problem Solving Using Java (4th Ed., Mark Allen Weiss)
Solution Manual Java Software Structures : Designing and Using Data Structures (2nd Ed., John Lewis, Joseph Chase)
Solution Manual The Object of Data Abstraction and Structures (using Java) (David Riley)
Solution Manual Classic Data Structures in Java (Timothy Budd)

Solution Manual Data Structures in Java (Thomas A. Standish)
Solution Manual Data Structures, Algorithms and Software Principles in C (Thomas A. Standish)
Solution Manual Introduction to the Design and Analysis of Algorithms (1st Ed., Anany Levitin)
Solution Manual Introduction to the Design and Analysis of Algorithms (2nd Ed., Anany Levitin)
Solution Manual Algorithm Design (Jon Kleinberg & =C9va Tardos)
Solution Manual Data Structures and Algorithm Analysis in C (2nd Ed., Mark Allen Weiss)
Solution Manual Computer Algorithms : Introduction to Design and Analysis (3rd Ed., Sara Baase & Allen Van Gelder)
Solution Manual Artificial Intelligence : Structures and Strategies for Complex Problem Solving (6th Ed., George Luger)
Solution Manual Artificial Intelligence : A Modern Approach (2nd Ed., Stuart Russell & Peter Norvig)
Solution Manual The Complete A+ Guide to PC Repair (3rd Ed., Cheryl Schmidt)
Solution Manual The Complete A+ Guide to PC Repair (4th Ed., Cheryl Schmidt)
Solution Manual Complete Computer Repair Textbook (4th Ed., Cheryl Schmidt)
Solution Manual Computer Systems Organization and Architecture (John D. Carpinelli)
Solution Manual CMOS VLSI Design : A Circuits and Systems Perspective (3rd Ed., Neil Weste & David Harris)
Solution Manual CMOS VLSI Design : A Circuits and Systems Perspective (4th Ed., Neil Weste & David Harris)
Solution Manual Interactive Computer Graphics : A Top-Down Approach Using OpenGL (4th Ed., Edward Angel)
Solution Manual Interactive Computer Graphics : A Top-Down Approach Using OpenGL (5th Ed., Edward Angel)
Solution Manual File Structures : An Object-Oriented Approach with C++ (3rd Ed., Michael J. Folk, Bill Zoellick & Greg Riccardi)
Solution Manual Oracle 10g Programming : A Primer (Rajshekhar Sunderraman)
Solution Manual Databases, Types and the Relational Model (3rd Ed., C. J. Date & Hugh Darwen)
Solution Manual Fundamentals of Database Systems (5th Ed., Ramez Elmasri & Shamkant Navathe)
Solution Manual Database Systems : An Application-Oriented Approach, Introductory Version (2nd Ed., Michael Kifer, Arthur Bernstein & Philip M. Lewis)
Solution Manual Database Systems : An Application Oriented Approach, Complete Version (2nd Ed., Michael Kifer, Arthur Bernstein & Philip M. Lewis)
Solution Manual DataBase Systems : A Practical Approach to Design, Implementation and Management (4th Ed., Thomas M. Connolly & Carolyn E. Begg)
Solution Manual DataBase Systems : A Practical Approach to Design, Implementation and Management (5th Ed., Thomas M. Connolly & Carolyn E. Begg)
Solution Manual Database Systems : The Complete Book (2nd Ed., Hector

Garcia-Molina, Jeffrey D. Ullman, Jennifer Widom)
Solution Manual A First Course in Database Systems (3rd Ed., Jeffrey D. Ullman, Jennifer Widom)
Solution Manual Fundamentals of Database Systems/Oracle 9i Programming (4th Ed., Ramez Elmasri, Shamkant B. Navathe & Rajshekhar Sunderraman)
Solution Manual An Introduction to Database Systems (8th Ed., C.J. Date)
Solution Manual Oracle 9i Programming : A Primer (Rajshekhar Sunderraman)
Solution Manual Elements of Information Theory (1st Ed., Thomas M. Cover & Joy A. Thomas)
Solution Manual Principles of Database Systems with Internet and Java Applications (Greg Riccardi)
Solution Manual Introduction to Data Mining (Pang-Ning Tan, Michael Steinbach & Vipin Kumar)
Solution Manual Data Mining: A Tutorial Based Primer (Richard Roiger & Michael Geatz)
Solution Manual Learning SQL : A Step-by-Step Guide Using Access (Sikha Bagui, Richard Earp)
Solution Manual Learning SQL : A Step-By-Step Guide Using Oracle (Richard Earp, Sikha Bagui)
Solution Manual Access 2007 Guidebook (6th Ed., Maggie Trigg & Phyllis Dobson)
Solution Manual Access 2003 Guidebook for Office XP (5th Ed., Maggie Trigg & Phyllis Dobson)
Solution Manual Implementing Databases in Oracle 9i (John Day & Craig Van Slyke)
Solution Manual Web 101: Making the Net Work for You (2nd Ed., Wendy Lehnert)
Solution Manual Web 101 (3rd Ed., Wendy G. Lehnert & Richard L. Kopec)
Solution Manual Web Developer Foundations : Using XHTML (2nd Ed., Terry Felke-Morris)
Solution Manual Web Development & Design Foundations With XHTML (3rd Ed., Terry Felke-Morris)
Solution Manual Web Development and Design Foundations with XHTML (4th Ed., Terry Felke-Morris)
Solution Manual Internet Effectively : A Beginner's Guide to the World Wide Web (Tyrone Adams & Sharon Scollard)
Solution Manual Light on the Web : Essentials to Making the 'Net Work for You (Wendy G. Lehnert)
Solution Manual Programming the World Wide Web (3rd Ed., Robert W. Sebesta)
Solution Manual Programming the World Wide Web (4th Ed., Robert W. Sebesta)
Solution Manual Programming the World Wide Web (5th Ed., Robert W. Sebesta)
Solution Manual Programming the World Wide Web (6th Ed., Robert W. Sebesta)
Solution Manual XML: Language Mechanics and Applications (Dwight Peltzer)
Solution Manual Practical Perl with CGI Applications (Elizabeth Chang)
Solution Manual Developing Web Applications with Active Server Pages (Thom Luce)

Solution Manual Structure and Interpretation of Signals and Systems (Edward A. Lee & Pravin Varaiya)
Solution Manual Languages and Machines : An Introduction to the Theory of Computer Science (2nd Ed., Thomas Sudkamp)
Solution Manual Languages and Machines : An Introduction to the Theory of Computer Science (3rd Ed., Thomas Sudkamp)
Solution Manual How to Break Software Security (James A. Whittaker & Herbert H. Thompson)
Solution Manual Software Quality Assurance : From Theory to Implementation (Daniel Galin)
Solution Manual Object Oriented Software Development Using Java (2nd Ed., Xiaoping Jia)
Solution Manual Introduction to the Team Software Process (Watts S. Humphrey)
Solution Manual Software Project Management : A Real-World Guide to Success (Joel Henry)
Solution Manual Software Engineering (7th Ed., Ian Sommerville)
Solution Manual Software Engineering (8th Ed., Ian Sommerville)
Solution Manual Software Engineering (9th Ed., Ian Sommerville)
Solution Manual Software Engineering (3rd Ed., Shari Lawrence Pfleeger & Joanne Atlee)
Solution Manual Software Engineering : Theory and Practice (4th Ed., Shari Lawrence Pfleeger & Joanne Atlee)
Solution Manual Object-Oriented Programming featuring Graphical Applications in Java (Michael Laszlo)
Solution Manual Project-Based Software Engineering : An Object-Oriented Approach (Evelyn Stiller & Cathie LeBlanc)
Solution Manual Engineering of Software, The: A Technical Guide for the Individual (Dick Hamlet & Joe Maybee)
Solution Manual Concepts of Programming Languages (7th Ed., Robert W. Sebesta)
Solution Manual Concepts of Programming Languages (8th Ed., Robert W. Sebesta)
Solution Manual Concepts of Programming Languages (9th Ed., Robert W. Sebesta)
Solution Manual Advanced Java : Internet Applications (2nd Ed., Art Gittleman)
Solution Manual Objects to Components with Java 2 Platform (Art Gittleman)
Solution Manual C for Java Programmers (Tomasz Muldner)
Solution Manual Pointers on C (Kenneth Reek)
Solution Manual C++ Programming with Design Patterns Revealed (Tomasz Muldner)
Solution Manual The C++ Programming Language (3rd Ed., Bjarne Stroustrup)
Solution Manual Operating Systems : A Systematic View (6th Ed., William S. Davis & T.M. Rajkumar)
Solution Manual Unix: The Textbook (2nd Ed., Syed Mansoor Sarwar, Robert Koretsky & Syed Aqeel Sarwar)
Solution Manual Operating Systems (3rd Ed., Gary Nutt)
Solution Manual LINUX & UNIX Programming Tools : A Primer for Software Developers (Syed Mansoor Sarwar & Khaled H. Al-Saqabi)
Solution Manual Addison-Wesley's Interactive Linux Tutorial and

Reference (Edutrends, Inc.)
Solution Manual Linux : The Textbook (Syed Mansoor Sarwar, Robert Koretsky & Syed Aqeel Sarwar)
Solution Manual Kernel Projects for Linux (Gary Nutt)
Solution Manual OSP : An Environment for Operating System Projects (Michael Kifer & Scott A. Smolka)
Solution Manual Distributed Computing : Principles and Applications (M.L. Liu)
Solution Manual Distributed Operating Systems and Algorithm Analysis (Randy Chow & Theodore Johnson)
Solution Manual Mastering Networks : An Internet Lab Manual (Jorg Liebeherr & Magda El Zarki)
Solution Manual Computer Networking Complete Package (3rd Ed., James Kurose & Keith Ross)
Solution Manual Computer Networking : A Top-Down Approach Featuring the Internet (3rd Ed., James Kurose & Keith Ross)
Solution Manual Computer Networking : A Top-Down Approach (4th Ed., James Kurose & Keith Ross)
Solution Manual Computer Networking : A Top-Down Approach (5th Ed., James Kurose & Keith Ross)
Solution Manual Producing Great Sound for Film and Video (3rd Ed., Jay Rose)
Solution Manual Network Management : Principles and Practice (Mani Subramanian)
Solution Manual Computer Security : Art and Science (Matt Bishop)
Solution Manual Introduction to Computer Security (Matt Bishop)
Solution Manual Creating Powerful Brands (4th Ed., Leslie de Chernatony, Malcolm McDonald, Elaine Wallace)
Solution Manual How to Break Software Security (James A. Whittaker & Herbert H. Thompson)
Solution Manual Parallel Programming in C with MPI and Open MP (Michael Quinn)
Solution Manual Modern Recording Techniques (6th Ed., Miles Huber & Runstein)
Solution Manual Creating Powerful Radio : Getting, Keeping and Growing Audiences News, Talk, Information & Personality Broadcast, HD, Satellite & Internet (Valerie Geller)
Solution Manual Electronic Media Law and Regulation (5th Ed., Kenneth Creech)
Solution Manual Electronic Media Management, Revised (5th Ed., Pringle & Starr)
Solution Manual Convergent Journalism an Introduction: Writing and Producing Across Media (Quinn & Filak)
Solution Manual Flash Journalism : How to Create Multimedia News Packages (Mindy McAdams)

---=------------------------

contact me to :   mattosbw1@gmail.com   mattosbw1(at)gmail.com

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From -8330490190975139607
X-Google-Thread: fcc6e,2b43f2dcee09cfa9,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,2b43f2dcee09cfa9,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,2b43f2dcee09cfa9,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,2b43f2dcee09cfa9,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,2b43f2dcee09cfa9,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,2b43f2dcee09cfa9,start
X-Google-NewGroupId: yes
X-Google-Thread: 10e8ad,2b43f2dcee09cfa9,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,2b43f2dcee09cfa9,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf
6,gid8f86f75953,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.74.201 with SMTP id w9mr15969148pbv.0.1328079605595;
        Tue, 31 Jan 2012 23:00:05 -0800 (PST)
MIME-Version: 1.0
Path: lh20ni247595pbb.0!nntp.google.com!news1.google.com!news.glorb.com!news-
out.readnews.com!transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1325401201@panix.com>
Followup-To: poster
Date: 1 Feb 2012 02:00:03 -0500
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 05 Mar 2012 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1328079601@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1328079603 23963 166.84.1.2 (1 Feb 2012 07:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 1 Feb 2012 07:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
```

Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. After a successful trial |
period (90 days, through early July 2009), we decided to adopt this |
change permanently. |

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From -5728735823420780664
X-Google-Thread: fc2a5,71a56ff5f854483f,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.74.201 with SMTP id w9mr2806157pbv.0.1328208085422;
        Thu, 02 Feb 2012 10:41:25 -0800 (PST)
MIME-Version: 1.0
Path: lh20ni253040pbb.0!nntp.google.com!news1.google.com!news.glorb.com!
feeder.erje.net!eternal-september.org!feeder.eternal-september.org!mx04.eternal-
september.org!news.eternal-september.org!.POSTED!not-for-mail
From: davidmylastname@acm.org (David Griffith)
Newsgroups: rec.radio.amateur.homebrew
Subject: Bunnel Flameproof morse key terminal cover
Date: Thu, 2 Feb 2012 18:41:24 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 6
Message-ID: <jgelck$d9e$1@frotz.eternal-september.org>
Injection-Date: Thu, 2 Feb 2012 18:41:24 +0000 (UTC)
Injection-Info: frotz.eternal-september.org; posting-host="TNB615/
CGaeVL+GUFfMYbQ";
     logging-data="13614"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+kKhL9294fj4OFvvkq4uW5"
User-Agent: tin/1.9.6-20100522 ("Lochruan") (UNIX) (Linux/2.6.32-5-686 (i686))
Cancel-Lock: sha1:uAWg0N5mo52r6eo9MV6s2s0sLC4=

Does anyone here have any spare terminal covers for a Bunnel Flameproof
morse key?  How about any good ideas for creating one from scratch?

--
David Griffith
davidmylastname@acm.org   <--- Put my last name where it belongs


From -1890514418030502697
X-Google-Thread: fc2a5,71a56ff5f854483f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.238.198 with SMTP id vm6mr3024140pbc.3.1328214627848;
        Thu, 02 Feb 2012 12:30:27 -0800 (PST)
MIME-Version: 1.0
Path: lh20ni253324pbb.0!nntp.google.com!news2.google.com!news.glorb.com!
news.alt.net!news.dizum.com!sewer-output!mail2news
From: Nomen Nescio <nobody@dizum.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Bunnel Flameproof morse key terminal cover
References: <jgelck$d9e$1@frotz.eternal-september.org>
Message-ID: <8647fab323398115ce730967905e2f8a@dizum.com>
Date: Thu,  2 Feb 2012 21:30:06 +0100 (CET)
Mail-To-News-Contact: abuse@dizum.com
Organization: mail2news@dizum.com
```

davidmylastname@acm.org (David Griffith) wrote:

> Does anyone here have any spare terminal covers for a Bunnel Flameproof
> morse key?

I suppose the original ones burned?

```
From -321146096336982135
X-Google-Thread: fc2a5,71a56ff5f854483f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.213.68 with SMTP id nq4mr3717392pbc.2.1328238747184;
        Thu, 02 Feb 2012 19:12:27 -0800 (PST)
MIME-Version: 1.0
Path: lh20ni254350pbb.0!nntp.google.com!news1.google.com!news.glorb.com!
feeder.erje.net!eternal-september.org!feeder.eternal-september.org!mx04.eternal-
september.org!news.eternal-september.org!.POSTED!not-for-mail
From: davidmylastname@acm.org (David Griffith)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Bunnel Flameproof morse key terminal cover
Date: Fri, 3 Feb 2012 03:12:26 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 16
Message-ID: <jgfjaq$m03$1@frotz.eternal-september.org>
References: <jgelck$d9e$1@frotz.eternal-september.org>
<8647fab323398115ce730967905e2f8a@dizum.com>
Injection-Date: Fri, 3 Feb 2012 03:12:26 +0000 (UTC)
Injection-Info: frotz.eternal-september.org; posting-host="TNB615/
CGaeVL+GUFfMYbQ";
     logging-data="22531"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+SgDfAGw3g5j0M5v/N1Wqu"
User-Agent: tin/1.9.6-20100522 ("Lochruan") (UNIX) (Linux/2.6.32-5-686 (i686))
Cancel-Lock: sha1:rd2ul/CFVHTLqtxAxBr6/x8/MB8=
```

Nomen Nescio <nobody@dizum.com> wrote:
> davidmylastname@acm.org (David Griffith) wrote:
>
>> Does anyone here have any spare terminal covers for a Bunnel Flameproof
>> morse key?
>
> I suppose the original ones burned?

No, I bought it that way. I'm thinking it would be fairly simple to get a piece of hard plastic square rod and drill-press out a cavity. But I don't have a drill press and I'm hoping maybe someone might be convinced to make one.

--
David Griffith
davidmylastname@acm.org   <--- Put my last name where it belongs

```
From -8226371463871336215
X-Google-Thread: fc2a5,7927eadaf9504d4e,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.226.10 with SMTP id ro10mr4200994pbc.6.1328256817141;
        Fri, 03 Feb 2012 00:13:37 -0800 (PST)
Path: lh20ni255112pbb.0!nntp.google.com!news2.google.com!postnews.google.com!
q8g2000pbb.googlegroups.com!not-for-mail
From: darling2525 <kousalya99@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ROMANTIC HOT PHOTOS & VIDEOS
Date: Fri, 3 Feb 2012 00:11:37 -0800 (PST)
Organization: http://groups.google.com
Lines: 36
Message-ID: <aa3c3cee-2045-4357-991e-a7c2923adfd9@q8g2000pbb.googlegroups.com>
NNTP-Posting-Host: 117.199.249.88
Mime-Version: 1.0
X-Trace: posting.google.com 1328256817 21324 127.0.0.1 (3 Feb 2012 08:13:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 3 Feb 2012 08:13:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q8g2000pbb.googlegroups.com; posting-host=117.199.249.88; posting-
account=FCyjXwoAAABgroTD4iFctHinmtQ2BDsm
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1



           BOLLYWOOD ACTRESS APSARA AWARDS 2012
http://actressgallery-kalyani.blogspot.com/2012/01/apsara-awards-2012.html
              AISHWARYA RAI LATEST HOT PICS
http://actressimages-9.blogspot.com/2012/01/aishwarya-rai.html
            KATRINA KAIF HOT MAGAZINES PHOTOS
http://actressimages-9.blogspot.com/2012/01/katrina-kaif-magazine-photos.html
                       TRISHA HOT BEAUTIFUL IMAGES
http://actressimages-9.blogspot.com/2012/01/trisha-krishnan.html
               HOT MALLIKA SHERAWAT PHOTOS
http://actressimages-9.blogspot.com/2012/01/mallika-sherawat.html
              SHEELA LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.com/2012/01/sheela-latest-stills.html
        KATRINA KAIF ITEM SONG STILLS
http://actressgallery-kalyani.blogspot.com/2012/01/katrina-kaif-item-song-
stills.html
                 NIPPU MOVIE LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.com/2011/11/nippu-movie-stills.html
     KAJAL AGARWAL  IN  BUSINESSMAN MOVIE
http://actressgallery-kalyani.blogspot.com/2012/01/kajal-agarwal-in-business-
```

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man.html
              RITU KAUR LATEST PHOTO STILLS
http://actressgallery-kalyani.blogspot.com/2012/01/ritu-kaur-stills.html
 SHRUTI HASSAN HOT IN 3 MOVIE
http://actressgallery-kalyani.blogspot.com/2011/11/shruti-hassan-in-3-movie.html
   HOT KATRINA KAIF PHOTOS
http://actressgallery-kalyani.blogspot.com/2011/09/katrina-kaif.html
           AISHWARYA RAI HOT HQ PHOTO STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/aishwarya-rai.html
           ASIN HOT PHOTO GALLERY
http://actressgallery-kalyani.blogspot.com/2011/09/asin.html
              HANSIKA MATOWNI LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/hansika-motwani.html
                KAJAL AGARWAL HOT PHOTOS
http://actressgallery-kalyani.blogspot.com/2011/09/kajal-agarwal.html
  DEEPIKA PADUKONE SPICY WALLPAPERS
http://actressgallery-kalyani.blogspot.com/2011/12/deepika-padukone.html




From 8627262376838668109
X-Google-Thread: fc2a5,525bf4351d74909,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.227.40 with SMTP id rx8mr5965915pbc.5.1328310364896;
        Fri, 03 Feb 2012 15:06:04 -0800 (PST)
MIME-Version: 1.0
Path: lh20ni257402pbb.0!nntp.google.com!news1.google.com!
newsfeed2.dallas1.level3.net!newsfeed3.dallas1.level3.net!news.level3.com!bloom-
beacon.mit.edu!ra.nrl.navy.mil!nntp.club.cc.cmu.edu!74.222.216.191.MISMATCH!
v102.xanadu-bbs.net!news.glorb.com!border3.nntp.dca.giganews.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 03 Feb 2012 17:06:03 -0600
From: hasse <hasse.9721f79@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Navico Amr 1000s
Date: Fri, 3 Feb 2012 19:07:41 +0000
Message-ID: <hasse.9721f79@radiobanter.com>
Organization: RadioBanter.com
Lines: 12
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
rkX7ENXBrIja0XsPekdpc1NHtmuBMHWydUTLr+dGvx1PF+UScBquz4LDycw+zh6rin17jfpXjCNMmP3!
A3P0u3ogY/HNJ4mVy2AvT6mhXmIOmd35mcyE/obWueQZhk3GosIcOnrNH9DjKa9zdD0Cpr4FCJGw!hzE=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 5
```

X-Original-Bytes: 1029

Is there any one ho nows to modify the radio for extended freq. more
than 144.000 to 146.000 Mhz

Thanks for help

Hans

--
hasse

From 5442873966320018456
X-Google-Thread: fc2a5,8c106e3bce3e7322
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.213.68 with SMTP id nq4mr6172895pbc.2.1328318845264;
        Fri, 03 Feb 2012 17:27:25 -0800 (PST)
Path: lh20ni257773pbb.0!nntp.google.com!news2.google.com!news.glorb.com!feeder.erje.net!eternal-september.org!feeder.eternal-september.org!mx04.eternal-september.org!.POSTED!not-for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Realistic Scanning Receiver for sale
Date: Fri, 03 Feb 2012 19:27:27 -0600
Organization: A noiseless patient Spider
Lines: 7
Message-ID: <jgi1hs$h7n$1@dont-email.me>
References: <jb98i7$sft$2@dont-email.me> <jf1efe$ltm$2@dont-email.me>
Mime-Version: 1.0
Injection-Date: Sat, 4 Feb 2012 01:27:24 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="femdWFrCCglzKUKHHc4IVA";
     logging-data="17655"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18aTPxpifrhf5xTNSmva2rm"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.8) Gecko/20050511 Mnenhy/0.7.2.0
In-Reply-To: <jf1efe$ltm$2@dont-email.me>
X-Accept-Language: en-us
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 120203-1, 02/03/2012), Outbound message
Cancel-Lock: sha1:S9802Um6YaLi7yWUDFd95T2RDSk=
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

I have a Realistic PRO-2003 AM/FM scanning receiver for sale. It is in very
good shape and comes with the manual. I'm asking $45 plus postage for it.
You may contact me off the newsgroup.

Thanks

Henry

```
From -2500377292850823709
X-Google-Thread: fc2a5,71a56ff5f854483f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.73.229 with SMTP id o5mr6291504pbv.7.1328326093533;
        Fri, 03 Feb 2012 19:28:13 -0800 (PST)
MIME-Version: 1.0
Path: lh20ni258075pbb.0!nntp.google.com!news2.google.com!news.glorb.com!
feeder.erje.net!eternal-september.org!feeder.eternal-september.org!mx04.eternal-
september.org!news.eternal-september.org!.POSTED!not-for-mail
From: davidmylastname@acm.org (David Griffith)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Bunnel Flameproof morse key terminal cover
Date: Sat, 4 Feb 2012 03:28:13 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 17
Message-ID: <jgi8kc$ed9$1@frotz.eternal-september.org>
References: <jgelck$d9e$1@frotz.eternal-september.org>
<jghjcp$bag$1@dk3uz.ampr.org>
Injection-Date: Sat, 4 Feb 2012 03:28:13 +0000 (UTC)
Injection-Info: frotz.eternal-september.org; posting-host="TNB615/
CGaeVL+GUFfMYbQ";
     logging-data="14761"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/712/HRXcFnv1NkpjnucxC"
User-Agent: tin/1.9.6-20100522 ("Lochruan") (UNIX) (Linux/2.6.32-5-686 (i686))
Cancel-Lock: sha1:MI1wtmp/VuiDWQaLJM39N7rykGE=
```

Edmund H. Ramm <dk3uz@arrl.net> wrote:
> In <jgelck$d9e$1@frotz.eternal-september.org> davidmylastname@acm.org (David
Griffith) writes:

>> Does anyone here have any spare terminal covers for a Bunnel Flameproof
>> morse key? How about any good ideas for creating one from scratch?

>   Maybe Bunnell still have spares? They used to sell the key as recently
> as a few months ago: http://www.jhbunnell.com/navykey.shtml, got mine from
> there.

I was aware of that and waited too long to grab one, so I got one from
Ebay, which didn't have the cover. I'll see if JH Bunnel has any covers
left over.

--
David Griffith
davidmylastname@acm.org   <--- Put my last name where it belongs

```
From 6171211220164944502
X-Google-Thread: fc2a5,3bbacef91c0ea636,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.213.68 with SMTP id nq4mr7460458pbc.2.1328373552601;
        Sat, 04 Feb 2012 08:39:12 -0800 (PST)
Path: lh20ni260071pbb.0!nntp.google.com!news1.google.com!news.glorb.com!
feeder.erje.net!eternal-september.org!feeder.eternal-september.org!mx04.eternal-
september.org!.POSTED!not-for-mail
From: "Bill Peters" <peterswilliam2591@excite.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: adjustable noise blanker modification?
Date: Sat, 4 Feb 2012 11:39:00 -0500
Organization: A noiseless patient Spider
Lines: 11
Message-ID: <jgjmvf$n9t$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Sat, 4 Feb 2012 16:39:12 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="TAwdviNXfNWQrF7PrInyeQ";
     logging-data="23869"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX190mRb/El25Pc52fsMUWZP+"
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:XSYgkhKAHoEr45hazBLG4aPFHHI=
X-Priority: 3
X-MSMail-Priority: Normal
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
```

I recently converted a couple of CB's to different bands: one to 10 meters and the other to 12. Although both have effective noise blankers (they are Cobra/ Uniden CB's), I'm wondering if it's possible to make the blankers adjustable in any way? When aligning them, two Toko (or similar) inductors on the board have to be adjusted for minimal noise but of course I wouldn't be able to adjust these on the road since they are internal. Thoughts or ideas?

Thanks,
Bill

```
From 7112236732971224359
X-Google-Thread: fc2a5,272777529144fddd,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.213.68 with SMTP id nq4mr8011444pbc.2.1328399262332;
```

```
        Sat, 04 Feb 2012 15:47:42 -0800 (PST)
Path: lh20ni261172pbb.0!nntp.google.com!news2.google.com!postnews.google.com!
vh10g2000pbc.googlegroups.com!not-for-mail
From: Lemon Tree <bitterlemon40@yahoo.ie>
Newsgroups: rec.radio.amateur.homebrew
Subject: Regenerative radio receiver book
Date: Sat, 4 Feb 2012 15:47:41 -0800 (PST)
Organization: http://groups.google.com
Lines: 7
Message-ID: <4b2f73b9-36a0-48ac-a0f4-4d0879986e99@vh10g2000pbc.googlegroups.com>
NNTP-Posting-Host: 113.190.168.27
Mime-Version: 1.0
X-Trace: posting.google.com 1328399262 13335 127.0.0.1 (4 Feb 2012 23:47:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 4 Feb 2012 23:47:42 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: vh10g2000pbc.googlegroups.com; posting-host=113.190.168.27;
posting-account=7x6AcwoAAAANV7u8W0BE7ye1MHET79y6
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (X11; Linux i686; rv:2.0b7pre) Gecko/20101008
 Firefox/4.0b7pre SeaMonkey/2.1b1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

Hi,
I have put together a short book on regenerative radio receivers to
mark the 100'th year of the discovery.
It is available here:
http://www.webstore.com/Regenerative-Radio-Receiver-
Book,name,14754474,auction_id,auction_details
It explains all the main topics needed to make a regenerative receiver
work right first time.


From 6473356379205816108
X-Google-Thread: fc2a5,2a24e6e84a097b6c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.74.201 with SMTP id w9mr3240276pbv.0.1328413081589;
        Sat, 04 Feb 2012 19:38:01 -0800 (PST)
Path: lh20ni261780pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
s8g2000pbj.googlegroups.com!not-for-mail
From: Lemon Tree <bitterlemon40@yahoo.ie>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Regenerative Radio Receiver Book
Date: Sat, 4 Feb 2012 19:38:01 -0800 (PST)
Organization: http://groups.google.com
Lines: 10
Message-ID: <92b47015-645c-4681-893d-cb392691d2d5@s8g2000pbj.googlegroups.com>
References: <43f93288-a5db-4d46-a262-9166818a99a0@d6g2000pra.googlegroups.com>
 <1641571e-a991-40e9-9124-7c6f69374820@j15g2000yqb.googlegroups.com>
 <Pine.LNX.4.64.1201212322330.28222@darkstar.example.net>
<4f22888d$0$1553$c3e8da3$76491128@news.astraweb.com>
NNTP-Posting-Host: 113.190.234.173
Mime-Version: 1.0
X-Trace: posting.google.com 1328413081 23908 127.0.0.1 (5 Feb 2012 03:38:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 5 Feb 2012 03:38:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s8g2000pbj.googlegroups.com; posting-host=113.190.234.173;
posting-account=7x6AcwoAAAANV7u8W0BE7ye1MHET79y6
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (X11; Linux i686; rv:2.0b7pre) Gecko/20101008
 Firefox/4.0b7pre SeaMonkey/2.1b1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

Unfortunately Mr Kitchin does not seem to understand the basic theory
of how regenerative radio receivers work. People who have built his
circuits often have irresolvable problems trying to get them to work.
In my book I indicate exactly what the problems are and how they are
solved. There are also a bunch of circuits that are of general
interest to anyone building any type of radio. All in all for the
price you get a lot more than you would get in a copy of QST for
example.
The book is now here:
http://www.webstore.com/Regenerative-Radio-Receiver-Book,name,14754474,auction_id,auction_details

```
From -3303878670867513813
X-Google-Thread: fc2a5,3bbacef91c0ea636
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.213.68 with SMTP id nq4mr9931936pbc.2.1328493355003;
        Sun, 05 Feb 2012 17:55:55 -0800 (PST)
MIME-Version: 1.0
Path: lh20ni265171pbb.0!nntp.google.com!news1.google.com!lightspeed.eweka.nl!
81.171.88.16.MISMATCH!eweka.nl!hq-usenetpeers.eweka.nl!newsfeed101.telia.com!
starscream.dk.telia.net!eternal-september.org!feeder.eternal-september.org!
mx04.eternal-september.org!.POSTED!not-for-mail
From: "grumpy" <t.seput@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: adjustable noise blanker modification?
Date: Sun, 5 Feb 2012 20:55:50 -0500
Organization: A noiseless patient Spider
Lines: 18
Message-ID: <jgnbva$t9n$1@dont-email.me>
References: <jgjmvf$n9t$1@dont-email.me>
Injection-Date: Mon, 6 Feb 2012 01:55:54 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="1HVxz/d0WzW7AmmeFaSduA";
     logging-data="30007"; mail-complaints-to="abuse@eternal-september.org";
```

posting-account="U2FsdGVkX1/vxffeyDq1RMFf58ncEsLrsn89dBKP1xg="
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:MKfGNLXigMRVbniJErsEZ28kdZI=
X-Priority: 3
X-MSMail-Priority: Normal
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.6157

Are you sure that inductors you talking about are in audio circuit
are they are in RF gain circuit some CBs come built in noise limiter?

"Bill Peters" <peterswilliam2591@excite.net> wrote in message
news:jgjmvf$n9t$1@dont-email.me...
>I recently converted a couple of CB's to different bands: one to 10 meters
>and the other to 12. Although both have effective noise blankers (they are
>Cobra/ Uniden CB's), I'm wondering if it's possible to make the blankers
>adjustable in any way? When aligning them, two Toko (or similar) inductors
>on the board have to be adjusted for minimal noise but of course I wouldn't
>be able to adjust these on the road since they are internal. Thoughts or
>ideas?
>
> Thanks,
> Bill

From -4493238597494343564
X-Google-Thread: fc2a5,2a24e6e84a097b6c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.226.10 with SMTP id ro10mr12183337pbc.6.1328565236065;
        Mon, 06 Feb 2012 13:53:56 -0800 (PST)
Path: lh20ni268190pbb.0!nntp.google.com!news1.google.com!postnews.google.com!m5g2000yqk.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Regenerative Radio Receiver Book
Date: Mon, 6 Feb 2012 13:53:55 -0800 (PST)
Organization: http://groups.google.com
Lines: 18
Message-ID: <2d3e2787-abf8-4f2b-af86-ae9d5a17d0fc@m5g2000yqk.googlegroups.com>
References: <43f93288-a5db-4d46-a262-9166818a99a0@d6g2000pra.googlegroups.com>
NNTP-Posting-Host: 71.68.3.114
Mime-Version: 1.0
X-Trace: posting.google.com 1328565235 26338 127.0.0.1 (6 Feb 2012 21:53:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 6 Feb 2012 21:53:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m5g2000yqk.googlegroups.com; posting-host=71.68.3.114; posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf

User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALENKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:10.0) Gecko/20100101 Firefox/
10.0,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

On Dec 24 2011, 8:26=A0pm, Lemon Tree <bitterlemo...@yahoo.ie> wrote:
> I have written a short book on regenerative receiver that I have
> available here:http://www.vendio.com/stores/newproducts
> and here:http://www.webstore.com/Regenerative-Radio-Receiver-Book,name,13=
72041...
>
> I also have some negative resistance circuits and other things here:http:=
//code.google.com/p/lemontree/downloads/list

Listened to many a ball game on a little one tube ginny I built from
plans in a book I found in the school library. . Later added a pre-
amp and two tube audio amp. Last thing I added to it was a preselector
using two ferrite loop sticks and a 2 section variable cap. All the
different sections were on their own chassis. It evolved to its final
stage over 8 years. When I was in college my friends thought I was
nuts for listening to a junky radio like that.

Jimmie

From -3848387538203755969
X-Google-Thread: fc2a5,6264997ce0fd3006
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.36.6 with SMTP id m6mr800948pbj.4.1321916614202;
        Mon, 21 Nov 2011 15:03:34 -0800 (PST)
Path: lh20ni3104pbb.0!nntp.google.com!news1.google.com!npeer01.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-14.dc1.easynews.com.POSTED!not-for-mail
From: Howard Eisenhauer <howarde@NOSPAMhfx.eastlink.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Vibrator power supply
Message-ID: <f4mlc7h5amttng8r6rl3edlothlbf82p63@4ax.com>
References: <d0069b1e-2ecf-45b7-9411-fee53ff5d635@v8g2000vbe.googlegroups.com>
<%rFtq.8528$zp4.6486@newsfe06.iad> <Xns9F9BEB733F2FDcrite40@216.196.97.131>
<c539eb23-8dbb-43c8-bb8a-922895741449@m10g2000vbc.googlegroups.com>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Lines: 5
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.

Date: Mon, 21 Nov 2011 19:03:34 -0400
Xref: news1.google.com rec.radio.amateur.homebrew:3235
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

NOS vibrators are avaialble from Leeds Radio-

http://leedsradio.com/parts-odds.html

H.

From 2471035447187899200
X-Google-Thread: fc2a5,6264997ce0fd3006
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.15.105 with SMTP id w9mr1154022pbc.7.1321922194810;
        Mon, 21 Nov 2011 16:36:34 -0800 (PST)
Path: lh20ni3354pbb.0!nntp.google.com!news2.google.com!npeer01.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
nntp.club.cc.cmu.edu!feeder.erje.net!de-l.enfer-du-nord.net!feeder2.enfer-du-
nord.net!cs.uu.nl!news0.firedrake.org!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Vibrator power supply
Date: Mon, 21 Nov 2011 19:34:51 -0500
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 10
Sender: et472@220-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.1111211934320.5026@darkstar.example.net>
References: <d0069b1e-2ecf-45b7-9411-fee53ff5d635@v8g2000vbe.googlegroups.com>
 <%rFtq.8528$zp4.6486@newsfe06.iad> <Xns9F9BEB733F2FDcrite40@216.196.97.131>
 <c539eb23-8dbb-43c8-bb8a-922895741449@m10g2000vbc.googlegroups.com>
 <f4mlc7h5amttng8r6rl3edlothlbf82p63@4ax.com>
NNTP-Posting-Host: 220-215-235-64-ppp.3menatwork.com
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1321922194 26675 64.235.215.220 (22 Nov 2011 00:36:34 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 22 Nov 2011 00:36:34 GMT
In-Reply-To: <f4mlc7h5amttng8r6rl3edlothlbf82p63@4ax.com>
Xref: news2.google.com rec.radio.amateur.homebrew:1945
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

On Mon, 21 Nov 2011, Howard Eisenhauer wrote:

> NOS vibrators are avaialble from Leeds Radio-
>
> http://leedsradio.com/parts-odds.html
>

Hey, weren't they just featured in the New York Times?

    Michael VE2BVW

```
From -6307946136701221878
X-Google-Thread: fc2a5,6264997ce0fd3006
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.39.100 with SMTP id o4mr3047038pbk.0.1321952152330;
        Tue, 22 Nov 2011 00:55:52 -0800 (PST)
Path: lh20ni4661pbb.0!nntp.google.com!news1.google.com!npeer01.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
post01.iad.highwinds-media.com!newsfe18.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.23) Gecko/20110921
Thunderbird/3.1.15
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Vibrator power supply
References: <d0069b1e-2ecf-45b7-9411-fee53ff5d635@v8g2000vbe.googlegroups.com>
<%rFtq.8528$zp4.6486@newsfe06.iad> <Xns9F9BEB733F2FDcrite40@216.196.97.131>
<c539eb23-8dbb-43c8-bb8a-922895741449@m10g2000vbc.googlegroups.com>
<f4mlc7h5amttng8r6rl3edlothlbf82p63@4ax.com>
<Pine.LNX.4.64.1111211934320.5026@darkstar.example.net>
In-Reply-To: <Pine.LNX.4.64.1111211934320.5026@darkstar.example.net>
Lines: 14
Message-ID: <ssJyq.30226$pt2.4465@newsfe18.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Tue, 22 Nov 2011 08:55:52 UTC
Organization: TeraNews.com
Date: Tue, 22 Nov 2011 02:55:51 -0600
Xref: news1.google.com rec.radio.amateur.homebrew:3237
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 11/21/2011 06:34 PM, Michael Black wrote:
> On Mon, 21 Nov 2011, Howard Eisenhauer wrote:
>
>> NOS vibrators are avaialble from Leeds Radio-
>>
>> http://leedsradio.com/parts-odds.html
>>
> Hey, weren't they just featured in the New York Times?
>
> Michael VE2BVW
>


Yes, I posted the link here a few days ago


From 7590289487604858161
X-Google-Thread: fc2a5,4bb3b096e079710a
```

```
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.0.170 with SMTP id 10mr2226958pbf.2.1322014655666;
        Tue, 22 Nov 2011 18:17:35 -0800 (PST)
Path: lh20ni7400pbb.0!nntp.google.com!news2.google.com!news.glorb.com!
feeder.erje.net!eternal-september.org!feeder.eternal-september.org!.POSTED!not-
for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking modern catalog of vacuum tubes
Date: Tue, 22 Nov 2011 21:17:30 -0500
Organization: A noiseless patient Spider
Lines: 16
Message-ID: <jahl3u$3dj$1@dont-email.me>
References: <j9fu1u$12f$1@frotz.eternal-september.org>
<Pine.LNX.4.64.1111101025040.32336@darkstar.example.net>
<j9jp4c$fn$1@frotz.eternal-september.org> <j9kbg001gj4@news1.newsguy.com>
<j9laqc$ece$1@frotz.eternal-september.org> <ja1qs2$7bm$1@dont-email.me>
<Pine.LNX.4.64.1111181302430.5566@darkstar.example.net>
Mime-Version: 1.0
Injection-Date: Wed, 23 Nov 2011 02:17:35 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="WpZmViAxxm/zTNJ2O2VL/w";
     logging-data="3507"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/Nq8up+HXntEkBbDHZjwPfHyPov+IyIts="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.23) Gecko/20110921
Thunderbird/3.1.15
In-Reply-To: <Pine.LNX.4.64.1111181302430.5566@darkstar.example.net>
Cancel-Lock: sha1:pkfYkZAb7vxkFop6D882Vu0eJ9Y=
Xref: news2.google.com rec.radio.amateur.homebrew:1947
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 11/18/2011 01:13 PM, Michael Black wrote:
>
> So the solid stated direct conversion receiver came along (the concept
> existed before solid state, but I don't think "direct conversion" was
> used before that 1968 article by Hayward.
Actually there WAS a direct conversion receiver in QST in the 60's that
used two 6BY7's in a balanced mixer with a B&W #350 2Q4 phase shift
network.  It was actually a single sideband receiver as the detector was
an image reject mixer.



> Michael VE2BVW
>
>



From 3568161709551759815
X-Google-Thread: fc2a5,6264997ce0fd3006
```

```
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.15.105 with SMTP id w9mr3705522pbc.7.1322042732851;
        Wed, 23 Nov 2011 02:05:32 -0800 (PST)
Path: lh20ni8598pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
q9g2000yqe.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Vibrator power supply
Date: Wed, 23 Nov 2011 02:04:10 -0800 (PST)
Organization: http://groups.google.com
Lines: 33
Message-ID: <a5d13530-6d7c-4e45-8cfe-3e97bbad2b9e@q9g2000yqe.googlegroups.com>
References: <d0069b1e-2ecf-45b7-9411-fee53ff5d635@v8g2000vbe.googlegroups.com>
NNTP-Posting-Host: 170.232.128.10
Mime-Version: 1.0
X-Trace: posting.google.com 1322042732 5414 127.0.0.1 (23 Nov 2011 10:05:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 23 Nov 2011 10:05:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q9g2000yqe.googlegroups.com; posting-host=170.232.128.10; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HARLUECNK
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1;
 Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
 3.0.30729; MAAU; .NET4.0C; MAAU),gzip(gfe)
Xref: news1.google.com rec.radio.amateur.homebrew:3239
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
```

On Nov 4, 11:17=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:

> I came by what appears to be a power supply module from some old
> military gear. It uses a synchronous vibrator unless my analysis of
> the circuit it way off. My plan is to build a circuit to replace the
> vibrator with a couple of power FETs driven by a 555 osc and a bridge
> rectfier to handle rectification of the output. I was wondering if
> there were any circuit designs around before I started to reinvent the
> wheel. Also what freqency do they use. Seems like I heard 100Hz at one
> time but I dont trust my memory on something I learned 40 years ago.
> Any help would be much appreciate.
>
> Jimmie

Hey OM:

Don't use a 555 use a TL494. A 555 has no control of the leading and
trailing edge of the so called square wave. /while one FET is going
off the other FET will come on. Towit the off time of most power FET's
is longer that the on time, thus the FET that you want to turn off
will still be on when the FET that you want on comes on thus for a

time both FET's will be on. Been there done that.

All you need is a power FET bridge, 4 FET drivers and the controller.

back in the day we used to make our own vibrator supplies , and now
with neo magnets out there I can keep the arcing down to nothing and
Suppressor diodes to keep the spikes down, the diodes and magnets they
didn't use back in the day 'cause they were to costly, all they could
use was buffer capacitors.

73 OM
de n8zu

```
From 5040286668911432274
X-Google-Thread: fc2a5,6264997ce0fd3006
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.15.41 with SMTP id u9mr7178920pbc.3.1322119785519;
        Wed, 23 Nov 2011 23:29:45 -0800 (PST)
Path: lh20ni11905pbb.0!nntp.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 24 Nov 2011 01:29:45 -0600
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <d0069b1e-2ecf-45b7-9411-fee53ff5d635@v8g2000vbe.googlegroups.com>
<a5d13530-6d7c-4e45-8cfe-3e97bbad2b9e@q9g2000yqe.googlegroups.com>
In-Reply-To: <a5d13530-6d7c-4e45-8cfe-3e97bbad2b9e@q9g2000yqe.googlegroups.com>
Subject: Re: Vibrator power supply
Date: Wed, 23 Nov 2011 23:29:39 -0800
MIME-Version: 1.0
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18463
Message-ID: <NbCdndOuHMz0b1DTnZ2dnUVZ5s-dnZ2d@giganews.com>
Lines: 29
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
kUkSEuFp3gSGiZLhU5Fwcclzxf32PgW1q43Neh3b1Z7ZeWjhnMJa+Ttz8IzLTQid8e9ONjolNcm3hrN!
TBvlpq+FR5keVgU6bfimofPtcnb9/lG6fGQcnbxO//SFOy8Cqie4O/wqbxDc9HsVwCvPFV0rVcE=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2820
Xref: news1.google.com rec.radio.amateur.homebrew:3240
Content-Type: text/plain;
```

```
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
```

"raypsi" <rborowiak@gmail.com> wrote in message
news:a5d13530-6d7c-4e45-8cfe-3e97bbad2b9e@q9g2000yqe.googlegroups.com...
On Nov 4, 11:17 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:

> I came by what appears to be a power supply module from some old
> military gear. It uses a synchronous vibrator unless my analysis of
> the circuit it way off. My plan is to build a circuit to replace the
> vibrator with a couple of power FETs driven by a 555 osc and a bridge
> rectfier to handle rectification of the output. I was wondering if
> there were any circuit designs around before I started to reinvent the
> wheel. Also what freqency do they use. Seems like I heard 100Hz at one
> time but I dont trust my memory on something I learned 40 years ago.
> Any help would be much appreciate.
>
> Jimmie

A lot of old marine electronics used 60Hz vibrators that worked well with
transformers designed for 60Hz service. Some of those transformers actually had primary windings or taps on the primary windings that matched common 117vac, 60Hz supplies.

Although the cheap, crimped cans (on the vibrators) was ugly to open, they could be opened and the vibrator repaired. Most had burned or welded closed points. The points were often good for one or two filings or dressings before the point of no return. Putting the can back on was a little messy, but hey, beauty was not usually important.

Old Chief Lynn, W7LTQ

```
From -5519209995166560655
X-Google-Thread: fc2a5,4bb3b096e079710a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.59.229 with SMTP id c5mr12729770pbr.6.1322258482745;
        Fri, 25 Nov 2011 14:01:22 -0800 (PST)
Path: lh20ni17895pbb.0!nntp.google.com!news2.google.com!news1.google.com!
npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!nntp.club.cc.cmu.edu!feeder.erje.net!eternal-september.org!
feeder.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking modern catalog of vacuum tubes
Date: Fri, 25 Nov 2011 17:01:14 -0500
Organization: A noiseless patient Spider
Lines: 26
```

```
Message-ID: <jap37h$ipu$1@dont-email.me>
References: <j9fu1u$12f$1@frotz.eternal-september.org> <13cbc326-ade0-4ab9-a8ac-
ab44e4cdb0ba@m19g2000yqh.googlegroups.com>
Mime-Version: 1.0
Injection-Date: Fri, 25 Nov 2011 22:01:22 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="WpZmViAxxm/zTNJ2O2VL/w";
     logging-data="19262"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+gRYwvEXxEvAZXBKylld4vUjmMT9LoXUM="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.23) Gecko/20110921
Thunderbird/3.1.15
In-Reply-To: <13cbc326-ade0-4ab9-a8ac-ab44e4cdb0ba@m19g2000yqh.googlegroups.com>
Cancel-Lock: sha1:V+SzUPm62LI8wonWd3R37aFdwKM=
Xref: news2.google.com rec.radio.amateur.homebrew:1950
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 11/19/2011 11:25 AM, raypsi wrote:
> Hey OM:
>
> Why buy tubes when you can roll your own:
> Yup I seen it on youtube sum youtuber has a video how to make a
> triode, like 1/2 of a 12AX7.
>
> 73 OT,
> de n8zu
>
>
>
>
> On Nov 10, 2:21 am, davidmylastn...@acm.org (David Griffith) wrote:
>> Is there such thing as a modern databook or catalog of
>> currently-produced vacuum tubes?  I'm tinkering with the idea of making
>> a modern tube broadcast AM receiver that I can run all the time without
>> thinking "gee, I'm going to pay through the nose for more tubes when the
>> time comes".
>>
>> --
>> David Griffith
>> davidmylastn...@acm.org<--- Put my last name where it belongs
>
sure if you happen to have some glass blowing equipment along with a
spot welder, vacuum pump, rf induction heater, blow torches, etc ....


From -4936867937272608659
X-Google-Thread: fc2a5,df769c673d4f3ca4,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.35.68 with SMTP id f4mr13780338pbj.5.1322285587451;
        Fri, 25 Nov 2011 21:33:07 -0800 (PST)
Path: lh20ni19076pbb.0!nntp.google.com!news2.google.com!news1.google.com!
news.glorb.com!news.alt.net
```

```
From: justme <jbleaux@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: NEED ICOM STUFF
Date: Fri, 25 Nov 2011 23:32:47 -0600
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 11
Message-ID: <gfu0d7tcag780ufoj3c722l4ls197lovvl@4ax.com>
Mime-Version: 1.0
X-Newsreader: Forte Agent 5.00/32.1171
Xref: news2.google.com rec.radio.amateur.homebrew:1951
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
```

Hi,

I would like to buy anything related to Icom 745/751 radios, parts,
too, even the radio itself
working or not.

Thank you.

jbleaux@gmail.com

```
From -46864291327777931
X-Google-Thread: fc2a5,7c2f0b273b7e6088,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.28.135 with SMTP id b7mr20762566pbh.8.1322407307518;
        Sun, 27 Nov 2011 07:21:47 -0800 (PST)
Path: lh20ni24288pbb.0!nntp.google.com!news2.google.com!npeer02.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
nntp.club.cc.cmu.edu!feeder.erje.net!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: "Radiohouse" <radiohouse@nowhere.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: proper tying of guys and antenna support rope?
Date: Sun, 27 Nov 2011 10:21:44 -0500
Organization: A noiseless patient Spider
Lines: 15
Message-ID: <jatkia$vvl$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Sun, 27 Nov 2011 15:21:46 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="J7YzWS/p9hp58msAGmA9+A";
     logging-data="32757"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+GsLcE/HOCfVb6Gr6Hs6ZM"
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:EDiKoJ+3r3dCyHmzrSfragcdMwQ=
X-Priority: 3
X-MSMail-Priority: Normal
```

```
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
Xref: news2.google.com rec.radio.amateur.homebrew:1952
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
```

Just put up a 80 meter dipole today, but had some difficulty with two things: proper tying off of the lift/ support rope and proper tying off of the guys. When I say "support rope" here's what I mean: one side of the dipole was anchored high in a tree while the other from a 30' telephone pole. The tree had a pulley installed, so the "support rope" hangs down from there as well as the eye bolt from the telephone pole (support rope through the eye bolt). So, I'm not sure where or how to tie the support rope ends. Right now, on the tree side, I just have several turns around a low branch with a knot; basically the same with the telephone pole side. What is the proper way to secure the base of the supoort rope?

How do I tie the guy wires?

Thanks for any help.

```
From -9002886128090189514
X-Google-Thread: fc2a5,7c2f0b273b7e6088
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.39.100 with SMTP id o4mr22310674pbk.0.1322431295906;
        Sun, 27 Nov 2011 14:01:35 -0800 (PST)
Path: lh20ni25761pbb.0!nntp.google.com!news1.google.com!npeer01.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
post01.iad.highwinds-media.com!newsfe03.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.23) Gecko/20110921
Thunderbird/3.1.15
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: proper tying of guys and antenna support rope?
References: <jatkia$vvl$1@dont-email.me>
In-Reply-To: <jatkia$vvl$1@dont-email.me>
Lines: 23
Message-ID: <XpyAq.3064$r52.655@newsfe03.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Sun, 27 Nov 2011 22:00:23 UTC
Organization: TeraNews.com
Date: Sun, 27 Nov 2011 16:00:23 -0600
Xref: news1.google.com rec.radio.amateur.homebrew:3244
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 11/27/2011 09:21 AM, Radiohouse wrote:
> Just put up a 80 meter dipole today, but had some difficulty with two
> things: proper tying off of the lift/ support rope and proper tying off of
> the guys. When I say "support rope" here's what I mean: one side of the
> dipole was anchored high in a tree while the other from a 30' telephone
> pole. The tree had a pulley installed, so the "support rope" hangs down
> from there as well as the eye bolt from the telephone pole (support rope
> through the eye bolt). So, I'm not sure where or how to tie the support
> rope ends. Right now, on the tree side, I just have several turns around a
> low branch with a knot; basically the same with the telephone pole side.
> What is the proper way to secure the base of the supoort rope?
>
> How do I tie the guy wires?
>
> Thanks for any help.
>

Is the "telephone" pole your own property
or that of the utility company.

If it belongs to the utility company,
your dipole will be considered a hazard and removed.

From 4375632602205650374
X-Google-Thread: fc2a5,7c2f0b273b7e6088
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.15.41 with SMTP id u9mr22337708pbc.3.1322431975851;
        Sun, 27 Nov 2011 14:12:55 -0800 (PST)
Path: lh20ni25815pbb.0!nntp.google.com!news1.google.com!goblin1!goblin2!goblin.stu.neva.ru!newsfeed1.swip.net!85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: highlandham <highlandham.nospam@rfburns.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: proper tying of guys and antenna support rope?
Date: Sun, 27 Nov 2011 22:12:54 +0000
Organization: A noiseless patient Spider
Lines: 28
Message-ID: <jaucl7$4ua$1@dont-email.me>
References: <jatkia$vvl$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Sun, 27 Nov 2011 22:12:55 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="X0q+9klRn+9XYgNBFu5yyg";
     logging-data="5066"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18Jrvr5OYIWItBH/qQHCwq89iDfJRWMPwM="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.23) Gecko/20110922 Thunderbird/3.1.15
In-Reply-To: <jatkia$vvl$1@dont-email.me>
Cancel-Lock: sha1:41KJTB2D8tYfGsRNohoVKiDaaoE=
Xref: news1.google.com rec.radio.amateur.homebrew:3245

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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
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On 27/11/11 15:21, Radiohouse wrote:

> Just put up a 80 meter dipole today, but had some difficulty with two things: proper tying off of the lift/ support rope and proper tying off of the guys. When I say "support rope" here's what I mean: one side of the dipole was anchored high in a tree while the other from a 30' telephone pole. The tree had a pulley installed, so the "support rope" hangs down from there as well as the eye bolt from the telephone pole (support rope through the eye bolt). So, I'm not sure where or how to tie the support rope ends. Right now, on the tree side, I just have several turns around a low branch with a knot; basically the same with the telephone pole side. What is the proper way to secure the base of the supoort rope?
>
> How do I tie the guy wires?
>
> Thanks for any help.
>

=================================

The pulley is fine .Hang a brick or 2 or more fixed to the support rope
(the one running through the pully)
With the tree moving when it is windy ,the brick(s) keep(s) the dipole nicely stretched while possibly bobbing up and down a bit.

At our local radio club 2 wire dipoles are each suspended in between the branches of 2 trees , having a pulley and a hanging brick on both trees. Whereas here in the north of Scotland it can be veeeery windy the above setup is working well ;we never had a broken dipole.

Frank GM0CSZ / KN6WH

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From -1286828074951460809
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X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.205.127.148 with SMTP id ha20mr6997542bkc.6.1322497725929;
        Mon, 28 Nov 2011 08:28:45 -0800 (PST)
Path: dq5ni64402bkb.0!nntp.google.com!news1.google.com!postnews.google.com!
u10g2000prl.googlegroups.com!not-for-mail
From: Lemon Tree <bitterlemon40@yahoo.ie>
Newsgroups: rec.radio.amateur.homebrew
Subject: Ft 5GHz transistor
Date: Mon, 28 Nov 2011 07:44:18 -0800 (PST)
Organization: http://groups.google.com
Lines: 9
Message-ID: <8403287a-ff9c-4565-94e9-ef1ecda0cc0a@u10g2000prl.googlegroups.com>
NNTP-Posting-Host: 113.190.199.151
Mime-Version: 1.0
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X-Complaints-To: groups-abuse@google.com
```

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NNTP-Posting-Date: Mon, 28 Nov 2011 16:28:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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posting-account=7x6AcwoAAAANV7u8W0BE7ye1MHET79y6
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HNKUARELSC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1) AppleWebKit/535.2 (KHTML, like
 Gecko) Chrome/15.0.874.121 Safari/535.2,gzip(gfe)
Xref: news1.google.com rec.radio.amateur.homebrew:3246
Content-Type: text/plain; charset=ISO-8859-1
```

How difficult are transistor with an Ft of 5GHz to use? There are
some really cheap ones around these days like the 2sc3356 for
example. I'd like to some to make a regenerative receiver but I worry
that even after careful PCB layout I would still have problems.
Anyway I am starting a new website where I intend to present many
useful circuits. It is located at http://circuitprofile.scienceontheweb.net
At the moment there is only XOR circuit, but that XOR circuit should
be helpful for anyone making a huff and puff stabilized oscillator
circuit.

```
From -5565671144949481535
X-Google-Thread: fc2a5,acefbeff89c4bed8
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.15.41 with SMTP id u9mr27102087pbc.3.1322505042812;
        Mon, 28 Nov 2011 10:30:42 -0800 (PST)
Path: lh20ni31741pbb.0!nntp.google.com!news2.google.com!news3.google.com!
proxad.net!feeder1-2.proxad.net!usenet-fr.net!de-l.enfer-du-nord.net!
feeder1.enfer-du-nord.net!cs.uu.nl!news0.firedrake.org!news.xcski.com!ncf.ca!not-
for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ft 5GHz transistor
Date: Mon, 28 Nov 2011 13:27:32 -0500
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 30
Sender: et472@213-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.1111281324280.9601@darkstar.example.net>
References: <8403287a-ff9c-4565-94e9-ef1ecda0cc0a@u10g2000prl.googlegroups.com>
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Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1322504964 1935 64.235.215.213 (28 Nov 2011 18:29:24 GMT)
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In-Reply-To: <8403287a-ff9c-4565-94e9-ef1ecda0cc0a@u10g2000prl.googlegroups.com>
Xref: news2.google.com rec.radio.amateur.homebrew:1956
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
```

On Mon, 28 Nov 2011, Lemon Tree wrote:

> How difficult are transistor with an Ft of 5GHz to use? There are
> some really cheap ones around these days like the 2sc3356 for
> example. I'd like to some to make a regenerative receiver but I worry
> that even after careful PCB layout I would still have problems.
> Anyway I am starting a new website where I intend to present many
> useful circuits. It is located at http://circuitprofile.scienceontheweb.net
> At the moment there is only XOR circuit, but that XOR circuit should
> be helpful for anyone making a huff and puff stabilized oscillator
> circuit.
>

But why?

Cheap really high frequency transistors are great, when you need very high frequency characteristics.

But there are also plenty of cheap transistors that don't go so high in frequency that are more than good enough at lower frequencies.

Those "lesser" transistors have to be more available than the really high frequency transistors.

Take note that a lot of "popular" transistors are that way because they've been specified in construction articles, which in turn causes the parts places to carry them, which then also means others specify them in construction articles.

Michael VE2BVW

```
From -3249368178856548881
X-Google-Thread: fc2a5,acefbeff89c4bed8
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
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        Mon, 28 Nov 2011 13:12:06 -0800 (PST)
Path: lh20ni32543pbb.0!nntp.google.com!news2.google.com!postnews.google.com!
h37g2000pri.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ft 5GHz transistor
Date: Mon, 28 Nov 2011 13:10:16 -0800 (PST)
Organization: http://groups.google.com
Lines: 38
Message-ID: <1268fa98-0b83-4321-b73b-81daafb59ea0@h37g2000pri.googlegroups.com>
References: <8403287a-ff9c-4565-94e9-ef1ecda0cc0a@u10g2000prl.googlegroups.com>
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Mime-Version: 1.0
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 28 Nov 2011 21:12:06 +0000 (UTC)
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Complaints-To: groups-abuse@google.com
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posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
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X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0) Gecko/20100101 Firefox/
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Xref: news2.google.com rec.radio.amateur.homebrew:1957
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

On Nov 28, 7:44=A0am, Lemon Tree <bitterlemo...@yahoo.ie> wrote:
> How difficult are transistor with an Ft of 5GHz to use? =A0There are
> some really cheap ones around these days like the 2sc3356 for
> example. =A0I'd like to some to make a regenerative receiver but I worry
> that even after careful PCB layout I would still have problems.
> Anyway I am starting a new website where I intend to present many
> useful circuits. =A0It is located athttp://circuitprofile.scienceontheweb=
.net
> At the moment there is only XOR circuit, but that XOR circuit should
> be helpful for anyone making a huff and puff stabilized oscillator
> circuit.

I hacked a short monopole antenna plus antenna preamp with an NEC
20GHz FET on 1.6mm thick FR4 material, and it worked pretty well. I
needed to have a very linear phase response (20MHz to 2GHz) and it
took some work to get the bypassing right; there was a source resistor
to develop the needed gate bias voltage, and getting it bypassed
correctly kept me busy for a while. One result of the project was
that I became much less afraid to try things like that, though. I
didn't have any stability problems. I used 0402 size parts, mostly
because they fit together better with the transistor than 0603, though
I really don't relish working with things as small as 0402.

I agree with Michael that you should avoid using transistors that have
much higher Ft's than you need, but maybe you're thinking of a 1GHz
regen receiver.

With regard to the parts that places like DigiKey and Mouser and other
authorized distributors stock: I seriously doubt that any homebrew
projects are going to have much effect on what they stock. It's the
parts that are bought for production, by the reel, or at least by
hundreds for some of the more exotic parts, that get their attention.
If you see them with a stock of 10,000 or more of something, you can
bet they didn't get them because they got some orders from random
homebrewers.

Cheers,
Tom

From 2019125235518506198

```
X-Google-Thread: fc2a5,acefbeff89c4bed8
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X-Google-Language: ENGLISH,ASCII-7-bit
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        Mon, 28 Nov 2011 21:03:43 -0800 (PST)
Path: lh20ni34891pbb.0!nntp.google.com!news1.google.com!goblin2!goblin3!
goblin.stu.neva.ru!de-l.enfer-du-nord.net!feeder1.enfer-du-nord.net!cs.uu.nl!
news0.firedrake.org!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ft 5GHz transistor
Date: Tue, 29 Nov 2011 00:01:46 -0500
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 86
Sender: et472@72.0.192.104
Message-ID: <Pine.LNX.4.64.1111281934440.9998@darkstar.example.net>
References: <8403287a-ff9c-4565-94e9-ef1ecda0cc0a@u10g2000prl.googlegroups.com>
 <1268fa98-0b83-4321-b73b-81daafb59ea0@h37g2000pri.googlegroups.com>
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Mime-Version: 1.0
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X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 29 Nov 2011 05:03:40 GMT
In-Reply-To: <1268fa98-0b83-4321-b73b-81daafb59ea0@h37g2000pri.googlegroups.com>
Xref: news1.google.com rec.radio.amateur.homebrew:3249
Content-Type: TEXT/PLAIN; CHARSET=US-ASCII; format=flowed
Content-ID: <Pine.LNX.4.64.1111282345451.10165@darkstar.example.net>
```

On Mon, 28 Nov 2011, K7ITM wrote:

> With regard to the parts that places like DigiKey and Mouser and other authorized distributors stock: I seriously doubt that any homebrew projects are going to have much effect on what they stock. It's the parts that are bought for production, by the reel, or at least by hundreds for some of the more exotic parts, that get their attention. If you see them with a stock of 10,000 or more of something, you can bet they didn't get them because they got some orders from random homebrewers.
>

But in the old days, it did matter. When there were local parts stores, and small mail order places. Why were there all those 2N706s specified for a long time, until 2N2222s became common? People still specify "1N34" when what they are really specifying is a germanium small signal diode, much of the time people didn't really care what the part number was, I seem to recall ads just saying "germanium diodes".

Even today, there is a relatively small handful of components specified, albeit a more recent selection.

I have no idea what came first. Did whoever used the 2N706 first look through databooks and find something "right" and then buy some, or did it start with going to the parts store and finding what was available? But as I said, once the parts were in the construction articles, those were the parts you'd see in the ads, back when the ads were the full line of what was carried, or a good part of it. Those places didn't carry a full line, they carried what would sell, so they'd carry what was being specified in the construction articles.

If you look at the UK or European magazines, you'd see the same small subset of parts being used, albeit a different set of specific devices.

It still holds true with a place like Dan's Small Parts. He has the familiar FETs, a dozen or so types of small signal bipolar transistors, unless he ends up with some overstock of some "exotic" device that's more or less like the common devices. He doesn't carry endless ICs, so he does pick to match what is commonly used. It's not a good place for exotic components or a wide range of components, but for non-digital projects it's a better place than many, since they carry radio type components like variable capacitors, so it often avoids orders to multiple places.

The flip side is that in keeping to a small selection of common parts, one can keep those in stock at home, and be able to throw together a lot of things on whim. Who doesn't have some 2N3055s and 2N2222s and 2N3906s and MPF102s?

It was a different era. The hobby suppliers worked as middlemen between the distributors and the hobbyists. The distributors often didnt' want to deal with small orders. So new places rose up that would buy in bulk and sell in small quantities to hobbyists. Since they were small companies in themselves, they couldn't afford to buy large quantities of lots of parts, so they picked the popular ones.

I remember about 1974 wanting some "new" ICs, the MC4044P and the MC1648 and the old style parts stores didn't carry things like that yet (and wouldn't, they'd start disappearing in a few years), so the only way was to go through a complicated procedure to get them from the local Hamilton Avnet distributor. And it seemed at the time that they weren't the general distributors such as Mouser, if you needed some other company's parts that they weren't a distributor for, you'd have to go to some other distributor that did carry the line. You'd look in the phone book and someone would be a distributor for Motorola, another for RCA and so on.

When Active Electronics opened up, it was a big deal because they were carrying multiple lines, and were sort of willing to deal with the hobbyist (initially we'd fill out a form, then it would get sent back to the warehouse to be filled, but slowly they prepackaged components and it was self serve for the common ones). It was sort of like the old parts stores, except carrying more leading edge components. But even when a wider variety of parts was available from places like that, we'd all stick to more or less the same handful of parts.

Digikey is an example of all this. Started out selling a keyer kit, they started selling parts and if I'm remembering properly, there was a period when they listed all or most of their stock in their magazine ads. Then they grew and grew more, going from a small company catering to hobbyists with a select number of devices, to being a major source of parts from a wide range of companies, and really dealing with selling to other companies, but still having some sort of reasonable policy for the small time buyer.

    Michael VE2BVW

```
From -3444656645449386398
X-Google-Thread: fc2a5,acefbeff89c4bed8
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.59.229 with SMTP id c5mr30560523pbr.6.1322557779963;
        Tue, 29 Nov 2011 01:09:39 -0800 (PST)
Path: lh20ni36121pbb.0!nntp.google.com!news1.google.com!news3.google.com!
proxad.net!feeder1-2.proxad.net!news-transit.tcx.org.uk!newsfeed.xs4all.nl!
newsfeed6.news.xs4all.nl!xs4all!newsgate.cistron.nl!newsgate.news.xs4all.nl!
post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Ft 5GHz transistor
References: <8403287a-ff9c-4565-94e9-ef1ecda0cc0a@u10g2000prl.googlegroups.com>
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 <Pine.LNX.4.64.1111281934440.9998@darkstar.example.net>
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Message-ID: <slrnjd987f.oet.nomail@xs8.xs4all.nl>
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X-Trace: 1322557679 news.xs4all.nl 6943 [2001:888:0:1::888]:34607
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Xref: news1.google.com rec.radio.amateur.homebrew:3250
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
```

Michael Black <et472@ncf.ca> wrote:
> On Mon, 28 Nov 2011, K7ITM wrote:
>
>
>> With regard to the parts that places like DigiKey and Mouser and other
>> authorized distributors stock: I seriously doubt that any homebrew
>> projects are going to have much effect on what they stock. It's the
>> parts that are bought for production, by the reel, or at least by
>> hundreds for some of the more exotic parts, that get their attention.
>> If you see them with a stock of 10,000 or more of something, you can
>> bet they didn't get them because they got some orders from random
>> homebrewers.
>>

> But in the old days, it did matter. When there were local parts stores,
> and small mail order places. Why were there all those 2N706s specified
> for a long time, until 2N2222s became common? People still specify "1N34"
> when what they are really specifying is a germanium small signal diode,
> much of the time people didn't really care what the part number was, I
> seem to recall ads just saying "germanium diodes".

In a local homebrewing magazine, they started to use some generic specifiers for small signal transistors and diodes, and there was a table in the magazine that listed a number of different types that one could use.

TUN = Transistor Universal NPN
TUP = Transistor Universal PNP
DUS = Diode Universal Silicium
DUG = Diode Universal Germanium

I think some hobbyists would just go to the store for "5 TUN, 3 DUS" and get what they needed.

```
From -7963319158509635876
X-Google-Thread: fc2a5,acefbeff89c4bed8
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.16.106 with SMTP id f10mr835333pbd.8.1322606023869;
        Tue, 29 Nov 2011 14:33:43 -0800 (PST)
Path: lh20ni40035pbb.0!nntp.google.com!news2.google.com!postnews.google.com!
cc2g2000vbb.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ft 5GHz transistor
Date: Tue, 29 Nov 2011 14:33:43 -0800 (PST)
Organization: http://groups.google.com
Lines: 67
Message-ID: <487f15ac-6fe4-464a-8e93-f8abc44fc459@cc2g2000vbb.googlegroups.com>
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 <1268fa98-0b83-4321-b73b-81daafb59ea0@h37g2000pri.googlegroups.com>
<Pine.LNX.4.64.1111281934440.9998@darkstar.example.net>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
X-Trace: posting.google.com 1322606023 30188 127.0.0.1 (29 Nov 2011 22:33:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 29 Nov 2011 22:33:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: cc2g2000vbb.googlegroups.com; posting-host=192.25.240.225;
posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
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```

Xref: news2.google.com rec.radio.amateur.homebrew:1960
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

On Nov 28, 9:01=A0pm, Michael Black <et...@ncf.ca> wrote:
> On Mon, 28 Nov 2011, K7ITM wrote:
> > With regard to the parts that places like DigiKey and Mouser and other
> > authorized distributors stock: =A0I seriously doubt that any homebrew
> > projects are going to have much effect on what they stock. =A0It's the
> > parts that are bought for production, by the reel, or at least by
> > hundreds for some of the more exotic parts, that get their attention.
> > If you see them with a stock of 10,000 or more of something, you can
> > bet they didn't get them because they got some orders from random
> > homebrewers.
>
> But in the old days, it did matter. =A0When there were local parts stores=
,
> and small mail order places. =A0Why were there all those 2N706s specified
> for a long time, until 2N2222s became common?
...
Hey, I'm just guessing here, but I'd bet that the 2N706 ("High speed
logic switch," says the data sheet I brought up) was used by the
hundreds of thousands, maybe by the millions, by computer
manufacturers and other industrial/military electronics suppliers back
in the pre-integrated circuit days. That made them inexpensive and
readily available, and on the surplus market. Remember
"PolyPaks" (sp?)? I still have the 30MHz universal counter I built
out of PolyPaks parts, including Nixie tubes. I certainly had no
illusions about me and hobby people like me driving the market for
parts. I remember having a distinct impression at the time that the
hobbyist parts companies bought what they could get their hands on for
very low cost and sold what they could to us geeks. There's a supply-
side reason a lot of those companies were located in the Boston tech
corridor, Silicon Valley, or the L.A. aerospace zone. Yes, certainly
some of them bought stock of things they could move from distributors,
but I still don't see that the hobbyists drove what parts became the
standards.

The people designing ICs these days do it so they can sell large
quantities of them. That means getting them designed into reasonably
high volume products, and that's NOT the hobby or ham market. Heck,
the stuff I design professionally is never sold in high enough volume
to warrant design of any electronics parts 'specially for it, and it's
produced in higher volume than any but the highest volume ham gear--
orders of magnitude more volume than any homebrew projects.

Perhaps we're looking at this from completely different viewpoints.
I'm looking at it from the point of view of a company that makes and
sells, say, semiconductors. From that point of view, you don't ask
how many the hobby market will buy--you find markets that need
millions of parts. If you're successful, you don't mind that a tiny
fraction of those parts end up in hobby projects, but when the main
market dries up, you are unlikely to continue making wafers of that

part just to supply homebrewers.

That's not to say the home experimenter or low-volume industrial user has no impact on the large (or smaller) semiconductor manufacturer, by the way. I know that feedback from a ham trying to get low phase noise, who happened to discover a problem with a particular chip, had a significant effect on the manufacturer of that chip. I know that my own feedback to a very large semiconductor manufacturer caused them to discover a furnace problem and they shut down that line to fix it. I know that my feedback to the semiconductor product planners that come by occasionally has some effect on what they decide to do because they respect that what we do is pretty much cutting-edge, but the ideas would never see the light of day if they don't see a significant market for the resulting products (and that market is never going to be because of things I design, for sure).

Cheers,
Tom

```
From 4058247679663953074
X-Google-Thread: fc2a5,acefbeff89c4bed8
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.0.170 with SMTP id 10mr3611130pbf.2.1322650252778;
        Wed, 30 Nov 2011 02:50:52 -0800 (PST)
Path: lh20ni43682pbb.0!nntp.google.com!news2.google.com!npeer03.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!
eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: highlandham <highlandham.nospam@rfburns.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ft 5GHz transistor
Date: Wed, 30 Nov 2011 10:50:50 +0000
Organization: A noiseless patient Spider
Lines: 99
Message-ID: <jb51qb$vsj$1@dont-email.me>
References: <8403287a-ff9c-4565-94e9-ef1ecda0cc0a@u10g2000prl.googlegroups.com>
<1268fa98-0b83-4321-b73b-81daafb59ea0@h37g2000pri.googlegroups.com>
<Pine.LNX.4.64.1111281934440.9998@darkstar.example.net>
Mime-Version: 1.0
Injection-Date: Wed, 30 Nov 2011 10:50:51 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="X0q+9klRn+9XYgNBFu5yyg";
     logging-data="32659"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+rCDw+KS3shjAcwvVxIvjhCbzgliaW1yg="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.23) Gecko/20110922
Thunderbird/3.1.15
In-Reply-To: <Pine.LNX.4.64.1111281934440.9998@darkstar.example.net>
Cancel-Lock: sha1:2mgVAirRwSxqevhNYTREg2gWXiM=
Xref: news2.google.com rec.radio.amateur.homebrew:1961
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 29/11/11 05:01, Michael Black wrote:
> On Mon, 28 Nov 2011, K7ITM wrote:
>
>
>> With regard to the parts that places like DigiKey and Mouser and other
>> authorized distributors stock: I seriously doubt that any homebrew
>> projects are going to have much effect on what they stock. It's the
>> parts that are bought for production, by the reel, or at least by
>> hundreds for some of the more exotic parts, that get their attention.
>> If you see them with a stock of 10,000 or more of something, you can
>> bet they didn't get them because they got some orders from random
>> homebrewers.
>>
> But in the old days, it did matter. When there were local parts stores,
> and small mail order places. Why were there all those 2N706s specified
> for a long time, until 2N2222s became common? People still specify
> "1N34" when what they are really specifying is a germanium small signal
> diode, much of the time people didn't really care what the part number
> was, I seem to recall ads just saying "germanium diodes".
>
> Even today, there is a relatively small handful of components specified,
> albeit a more recent selection.
>
> I have no idea what came first. Did whoever used the 2N706 first look
> through databooks and find something "right" and then buy some, or did
> it start with going to the parts store and finding what was available?
> But as I said, once the parts were in the construction articles, those
> were the parts you'd see in the ads, back when the ads were the full
> line of what was carried, or a good part of it. Those places didn't
> carry a full line, they carried what would sell, so they'd carry what
> was being specified in the construction articles.
>
> If you look at the UK or European magazines, you'd see the same small
> subset of parts being used, albeit a different set of specific devices.
>
> It still holds true with a place like Dan's Small Parts. He has the
> familiar FETs, a dozen or so types of small signal bipolar transistors,
> unless he ends up with some overstock of some "exotic" device that's
> more or less like the common devices. He doesn't carry endless ICs, so
> he does pick to match what is commonly used. It's not a good place for
> exotic components or a wide range of components, but for non-digital
> projects
> it's a better place than many, since they carry radio type components like
> variable capacitors, so it often avoids orders to multiple places.
>
>
> The flip side is that in keeping to a small selection of common parts,
> one can keep those in stock at home, and be able to throw together a lot
> of things on whim. Who doesn't have some 2N3055s and 2N2222s and 2N3906s
> and MPF102s?
>
> It was a different era. The hobby suppliers worked as middlemen between
> the distributors and the hobbyists. The distributors often didnt' want to

> deal with small orders. So new places rose up that would buy in bulk and sell in small quantities to hobbyists. Since they were small companies in themselves, they couldn't afford to buy large quantities of lots of parts, so they picked the popular ones.
>
> I remember about 1974 wanting some "new" ICs, the MC4044P and the MC1648 and the old style parts stores didn't carry things like that yet (and wouldn't, they'd start disappearing in a few years), so the only way was to go through a complicated procedure to get them from the local Hamilton Avnet distributor. And it seemed at the time that they weren't the general distributors such as Mouser, if you needed some other company's parts that they weren't a distributor for, you'd have to go to some other distributor that did carry the line. You'd look in the phone book and someone would be a distributor for Motorola, another for RCA and so on.
>
> When Active Electronics opened up, it was a big deal because they were carrying multiple lines, and were sort of willing to deal with the hobbyist (initially we'd fill out a form, then it would get sent back to the warehouse to be filled, but slowly they prepackaged components and it was self serve for the common ones). It was sort of like the old parts stores, except carrying more leading edge components. But even when a wider variety of parts was available from places like that, we'd all stick to more or less the same handful of parts.
>
> Digikey is an example of all this. Started out selling a keyer kit, they started selling parts and if I'm remembering properly, there was a period when they listed all or most of their stock in their magazine ads. Then they grew and grew more, going from a small company catering to hobbyists with a select number of devices, to being a major source of parts from a wide range of companies, and really dealing with selling to other companies, but still having some sort of reasonable policy for the small time buyer.
>
> Michael VE2BVW
>

============================

In the UK we must be lucky having a number of 1-2 band small parts suppliers (usually also being radio amateurs) having a good selection of solid state and electronic-mechanical components , like Modecomponents and JAB Electronics .
They also accept Paypal . Moreover the GQRP Club sells a number of popular RF components to members.
Hence ,no problems with getting components .

Frank GM0CSZ / KN6WH

```
From 8872070046490269094
X-Google-Thread: fc2a5,2557e62f5b6cba9c,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Received: by 10.68.16.106 with SMTP id f10mr3797960pbd.8.1322653959162;
        Wed, 30 Nov 2011 03:52:39 -0800 (PST)
Path: lh20ni43978pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
g7g2000vbd.googlegroups.com!not-for-mail
From: brisk brisk <6brisk@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: online form filling jobs
Date: Wed, 30 Nov 2011 03:52:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 2
Message-ID: <4c1900e7-e313-40fe-9d18-4b1bcb02caeb@g7g2000vbd.googlegroups.com>
NNTP-Posting-Host: 117.200.13.22
Mime-Version: 1.0
X-Trace: posting.google.com 1322653959 3587 127.0.0.1 (30 Nov 2011 11:52:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 30 Nov 2011 11:52:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g7g2000vbd.googlegroups.com; posting-host=117.200.13.22; posting-
account=Mpx0nAoAAAChNaqlZAcYLbUZCGbW5lDg
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Xref: news1.google.com rec.radio.amateur.homebrew:3253
Content-Type: text/plain; charset=ISO-8859-1

online form filling jobs
http://onlinejobsprocess.weebly.com



From -6185763834625997385
X-Google-Thread: fc2a5,acefbeff89c4bed8
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.0.170 with SMTP id 10mr288674pbf.2.1322686295191;
        Wed, 30 Nov 2011 12:51:35 -0800 (PST)
MIME-Version: 1.0
Path: lh20ni46606pbb.0!nntp.google.com!news1.google.com!npeer02.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!news.alt.net!
news.dizum.com!sewer-output!mail2news
From: Nomen Nescio <nobody@dizum.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ft 5GHz transistor
References: <jb51qb$vsj$1@dont-email.me>
Message-ID: <a0c1800b58f4216400593f5e25035d8a@dizum.com>
Date: Wed, 30 Nov 2011 17:10:09 +0100 (CET)
Mail-To-News-Contact: abuse@dizum.com
Organization: mail2news@dizum.com
Xref: news1.google.com rec.radio.amateur.homebrew:3254

highlandham <highlandham.nospam@rfburns.eu> wrote:
```

Do you find it necessary in the UK to quote entire posts including mostly irrelevant bits just in order to post a few lines then?

```
From -308057052555671732
```

```
X-Google-Thread: fc2a5,acefbeff89c4bed8
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.56.163 with SMTP id b3mr1249104pbq.0.1322719056800;
        Wed, 30 Nov 2011 21:57:36 -0800 (PST)
Path: lh20ni49294pbb.0!nntp.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 30 Nov 2011 23:56:19 -0600
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <8403287a-ff9c-4565-94e9-ef1ecda0cc0a@u10g2000prl.googlegroups.com>
<1268fa98-0b83-4321-b73b-81daafb59ea0@h37g2000pri.googlegroups.com>
<Pine.LNX.4.64.1111281934440.9998@darkstar.example.net> <jb51qb$vsj$1@dont-
email.me>
In-Reply-To: <jb51qb$vsj$1@dont-email.me>
Subject: Re: Ft 5GHz transistor
Date: Wed, 30 Nov 2011 21:56:14 -0800
MIME-Version: 1.0
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18463
Message-ID: <ad6dnRSUZomeikrTnZ2dnUVZ5rqdnZ2d@giganews.com>
Lines: 14
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-P0YcyQXq5b90kjf2/zDhz0siT68Ql6Ih2JK9bPDn4QwHsIDTL5wgBKf121AsKp9auTW/
nKHlx7oY4SN!yrtXh7ukBJoqi1jXq1erZFC5csRtkP8t1tJF+6QRa/
YBLq8KBVYLRn13ibPcbotyn8NfiobG0w==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1978
Xref: news1.google.com rec.radio.amateur.homebrew:3255
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
```

Back in the day.... mid 1960's, I helped out at a service shop in Goldsboro, NC,

and tried at first to get the shop boss to find a particular transistor or
diode to
complete a repair. He referred me to three cigar boxes. One was for power
transistors, mixed types, another for small signal NPN's, and last for small
signal PNP's. A glass jar held small signal diodes and for larger power
diodes,
I was shown the "back room" where a huge pile of defunct radio, tape player,
TV and
CB radios lie. Help yourself, kid!

Old Chief Lynn, W7LTQ

```
From -6865855057919394473
X-Google-Thread: fcc6e,f89c6f9ddd413298,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,f89c6f9ddd413298,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,f89c6f9ddd413298,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,f89c6f9ddd413298,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,f89c6f9ddd413298,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gid241b302a50,gide721ae2bf6,gida4a23d5f63,domainid0,pu
blic,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.35.68 with SMTP id f4mr1431621pbj.5.1322722804235;
        Wed, 30 Nov 2011 23:00:04 -0800 (PST)
MIME-Version: 1.0
Path: lh20ni49596pbb.0!nntp.google.com!news2.google.com!news1.google.com!
newsfeed2.dallas1.level3.net!news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1320127201@panix.com>
Followup-To: poster
Date: 1 Dec 2011 02:00:02 -0500
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Jan 2012 02:00:00 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1322722801@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1322722803 14156 166.84.1.2 (1 Dec 2011 07:00:03 GMT)
```

X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 1 Dec 2011 07:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
Xref: news2.google.com rec.radio.amateur.antenna:10190 rec.radio.amateur.dx:722 rec.radio.amateur.equipment:1098 rec.radio.amateur.homebrew:1965 rec.radio.amateur.misc:2542 rec.radio.amateur.policy:10178 rec.radio.amateur.space:325 rec.radio.info:1990

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. After a successful trial |
period (90 days, through early July 2009), we decided to adopt this |
change permanently. |

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with

```
an inappropriate name, including obscene language, embedded
name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.


From 5299718792284166213
X-Google-Thread: fc2a5,8c106e3bce3e7322,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.209.68 with SMTP id mk4mr5721882pbc.6.1322788300113;
        Thu, 01 Dec 2011 17:11:40 -0800 (PST)
Path: lh20ni54884pbb.0!nntp.google.com!news1.google.com!goblin2!goblin1!
goblin.stu.neva.ru!eternal-september.org!feeder.eternal-september.org!.POSTED!not-
for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Realistic Scanning Receiver for sale
Date: Thu, 01 Dec 2011 19:10:34 -0600
Organization: A noiseless patient Spider
Lines: 7
Message-ID: <jb98i7$sft$2@dont-email.me>
Mime-Version: 1.0
Injection-Date: Fri, 2 Dec 2011 01:10:31 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="femdWFrCCglzKUKHHc4IVA";
     logging-data="29181"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19Nv6AtfdrccJjeFOkMgQJF"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.8) Gecko/
20050511 Mnenhy/0.7.2.0
X-Accept-Language: en-us
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 111201-1, 12/01/2011), Outbound message
Cancel-Lock: sha1:ShYn4E8ybE/cFPMjiCqj0hI9Uts=
Xref: news1.google.com rec.radio.amateur.homebrew:3257
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

I have a Realistic PRO-2003 AM/FM scanning receiver for sale.  It is in very
good shape and comes with the manual.  I'm asking $45 plus postage for it.
You may contact me off the newsgroup.

Thanks

Henry


From -6648882022001247121
X-Google-Thread: fc2a5,acefbeff89c4bed8
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Received: by 10.68.15.41 with SMTP id u9mr22738817pbc.3.1323094401238;
        Mon, 05 Dec 2011 06:13:21 -0800 (PST)
Path: lh20ni72208pbb.0!nntp.google.com!news2.google.com!volia.net!news2.volia.net!feed-A.news.volia.net!news.musoftware.de!wum.musoftware.de!news2.arglkargh.de!easy.in-chemnitz.de!feeder.erje.net!feeder2.news.elisa.fi!uutiset.elisa.fi!7564ea0f!not-for-mail
From: KBa <kba@nic.fi>
User-Agent: Mozilla/5.0 (Windows NT 5.1; rv:8.0) Gecko/20111105 Thunderbird/8.0
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ft 5GHz transistor
References: <8403287a-ff9c-4565-94e9-ef1ecda0cc0a@u10g2000prl.googlegroups.com>
In-Reply-To: <8403287a-ff9c-4565-94e9-ef1ecda0cc0a@u10g2000prl.googlegroups.com>
Lines: 29
Message-ID: <4k4Dq.1699$Ci1.54@uutiset.elisa.fi>
Date: Mon, 05 Dec 2011 16:13:17 +0200
NNTP-Posting-Host: 85.76.142.119
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1323094400 85.76.142.119 (Mon, 05 Dec 2011 16:13:20 EET)
NNTP-Posting-Date: Mon, 05 Dec 2011 16:13:20 EET
Organization: Elisa Customer
Xref: news2.google.com rec.radio.amateur.homebrew:1967
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 28.11.2011 17:44, Lemon Tree wrote:
> How difficult are transistor with an Ft of 5GHz to use? There are
> some really cheap ones around these days like the 2sc3356 for
> example. I'd like to some to make a regenerative receiver but I worry
> that even after careful PCB layout I would still have problems.
> Anyway I am starting a new website where I intend to present many
> useful circuits. It is located at http://circuitprofile.scienceontheweb.net
> At the moment there is only XOR circuit, but that XOR circuit should
> be helpful for anyone making a huff and puff stabilized oscillator
> circuit.

In most cases high Ft transistors are ok in lower frequency
applications, high Ft means they have current gain which is flat in
frequency and is still some near 1 at Ft.
Oscillations are probably one chance if low frequency design allows
feedback or is not bandwidth limited.

One way out of these is to add extra loss at high frequencies which
lowers gain and lessen probability for oscillations.
Resistor 10..47ohm at collector (base) or tiny ferrite bead has high
impedance at high frequencies but don't affect low frequency
amplification significantly.

In most cases these values need experiments if needed at all, as
instability depends gain used and feedback available.

Gl Kari B

```
From 7782021117936971771
X-Google-Thread: fc2a5,d7cae7d971db3ebf,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.56.163 with SMTP id b3mr25895563pbq.0.1323154327516;
        Mon, 05 Dec 2011 22:52:07 -0800 (PST)
Path: lh20ni74822pbb.0!nntp.google.com!news2.google.com!postnews.google.com!
v5g2000yqn.googlegroups.com!not-for-mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SOUTH INDIAN HOT ACTRESS
Date: Mon, 5 Dec 2011 22:50:08 -0800 (PST)
Organization: http://groups.google.com
Lines: 117
Message-ID: <285da81e-c7db-4eaf-bd66-e2501fe5a32c@v5g2000yqn.googlegroups.com>
NNTP-Posting-Host: 117.199.249.138
Mime-Version: 1.0
X-Trace: posting.google.com 1323154327 17525 127.0.0.1 (6 Dec 2011 06:52:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 6 Dec 2011 06:52:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v5g2000yqn.googlegroups.com; posting-host=117.199.249.138;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Xref: news2.google.com rec.radio.amateur.homebrew:1968
Content-Type: text/plain; charset=ISO-8859-1

                  FOR GOOD JOBS SITES TO YOU
                http://goodjobssites.blogspot.com/

                 4FRIENDS MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/12/4-friends-movie-stills.html
              NANDEESWARUDU MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/12/nandeeswarudu-movie-stills.html
               HARI PRIYA HOT PHOTO STILLS
http://actressgallery-kalyani.blogspot.com/2011/12/haripariya-actress.html
             SHRUTI HASSAN HOT IN 3 MOVIE
http://actressgallery-kalyani.blogspot.com/2011/11/shruti-hassan-in-3-movie.html
                PANJA MOVIE LATEST STILLS
http://actressgallery-kalyani.blogspot.com/2011/11/panja-movie-stills.html
             URIMI LATEST MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/11/urimi-movie-stills.html
           NIPPU MOVIE WORKING STILLS
http://actressgallery-kalyani.blogspot.com/2011/11/nippu-movie-stills.html
         ROUDRAM MOVIE STILLS
```

http://actressgallery-kalyani.blogspot.com/2011/11/roudram-movie-stills.html
SIMHAPUTHRUDU MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/11/simhaputhrudu-movie-stills.html
SOLO MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/11/solo-movie-stills.html
BEZAWADA MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/11/bezawada-movie-stills.html
RAJANNA MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/11/rajanna-movie-stills.html\
POOLARANGADU MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/11/poolarangadu-movie-stills.html
ILEANA HOT STILLS IN NANBAN MOVIE
http://actressgallery-kalyani.blogspot.com/2011/11/nanban-movie-stills.html
PRIYUDU HOT ROMANTIC STILLS
http://actressgallery-kalyani.blogspot.com/2011/11/priyudu-movie-stills.html
ADHINAYAKUDU LATEST MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/11/adhinayakudu-movie-stills.html
HOT KATRINA KAIF PHOTOS
http://actressgallery-kalyani.blogspot.com/2011/09/katrina-kaif.html
AISHWARYA RAI HOT HQ PHOTO STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/aishwarya-rai.html
ASIN HOT PHOTO GALLERY
http://actressgallery-kalyani.blogspot.com/2011/09/asin.html
SAKUNI MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/10/sakuni-movie-stills.html
7TH SENSE MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/10/7th-sense-movie-stills.html
MOGUDU MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/mogudu-movie-stills.html
HANSIKA MATOWNI LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/hansika-motwani.html
KAJAL AGARWAL HOT PHOTOS
http://actressgallery-kalyani.blogspot.com/2011/09/kajal-agarwal.html
TAMANNA SIRUTHAI HOT MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/siruthai-movie-stills.html
SNEHA HOT GOA MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/goa-movie-stills.html

FOR FAST UPDATES IN FILM INDUSTRY
http://allyouwants.blogspot.com/

FOR ONLY HOT GUYS SEE THIS
ANUSHKA LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/anushka-hot.html
ADITI AGARWAL NEW ROMANTIC STILLS
http://hotactress-kalyani.blogspot.com/2011/12/aditi-agarwal-hot.html
PAYAL GHOSH HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/11/payal-ghosh-hot.html
RAGINI DWIVEDI HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/12/ragini-dwivedi.html
PARVATHI MELTON LATEST HOT PHOTOS

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http://hotactress-kalyani.blogspot.com/2011/11/parvathi-melton-hot.html
             SARAH JANE DIAS HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/11/sarah-jane-dias-hot.html
           KAJAL AGARWAL HOT SAREE STILLS
http://hotactress-kalyani.blogspot.com/2011/11/kajal-agarwal-hot-in-saree.html
           POONAM KAUR HOT ROMANTIC STILLS
http://hotactress-kalyani.blogspot.com/2011/11/poonam-kaur-hot.html
     AMISHA PATEL LATEST HOT BIKINI STILLS
http://hotactress-kalyani.blogspot.com/2011/08/amisha-patel-hot.html
                    TRISHA HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/trisha-hot.html
                  CHARMI LATEST HOT PHOTOS
  http://hotactress-kalyani.blogspot.com/2011/09/charmi-hot.html
                  PRIYAMANI HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/09/priyamani-hot.html
    KAJAL AGARWAL LATEST HOT WITHOUT TOP
http://hotactress-kalyani.blogspot.com/2011/08/kajal-agarwal-hot-photos.html
       SAMANTHA LATEST HOT STILLS
http://hotactress-kalyani.blogspot.com/2011/09/samantha-hot.html
               SNEHA ULLAL HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/10/sneha-ullal-hot.html
                  ANJALI HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/10/anjali-hot.html
          HANSIKA MOTWANI HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/10/hansika-motwani-hot.html
           PRANITHA LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/09/pranitha-hot.html
            HOT KATRINAKAIF WALLPAPERS
http://hotactress-kalyani.blogspot.com/2011/08/katrina-kaif-hot.html
             HOT MALLU ACTRESS BHAMA
http://hotactress-kalyani.blogspot.com/2011/09/bhama-hot.html
             TOLLYWOOD HOT ACTRESSES
http://hotactress-kalyani.blogspot.com/2011/08/hot-actrsess.html
            SONAKSHI SINHA HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/09/sonakshi-sinha-hot.html
          PRIYANKA CHOPRA LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/priyanka-chopra-hot.html
            LATEST    AMISHA PATEL HOT PICS
http://hotactress-kalyani.blogspot.com/2011/08/amisha-patel-hot.html
               TAPSEE DIFFERENT STILLS
http://hotactress-kalyani.blogspot.com/2011/08/tapsee-hot.html
               TAMANNA HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/tamanna-hot.html




From 5579443711664092835
X-Google-Thread: fcc6e,9e4ff75e3c8154a0,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,9e4ff75e3c8154a0,start
X-Google-NewGroupId: yes
```

```
X-Google-Thread: fc2a5,9e4ff75e3c8154a0,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,9e4ff75e3c8154a0,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gidd7f5508063,gid241b302a50,gide721ae2bf6,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.14.100 with SMTP id o4mr1008454pbc.6.1323241502223;
        Tue, 06 Dec 2011 23:05:02 -0800 (PST)
MIME-Version: 1.0
Path: lh20ni78553pbb.0!nntp.google.com!news2.google.com!
border1.nntp.dca.giganews.com!border4.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!news-out.readnews.com!news-
xxxfer.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1320649501@panix.com>
Followup-To: poster
Date: 7 Dec 2011 02:05:01 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Jan 2012 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1323241500@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1323241501 1879 166.84.1.2 (7 Dec 2011 07:05:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 7 Dec 2011 07:05:01 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: news2.google.com rec.radio.amateur.antenna:10216 rec.radio.amateur.dx:729
rec.radio.amateur.equipment:1100 rec.radio.amateur.homebrew:1969
rec.radio.amateur.misc:2568 rec.radio.amateur.policy:10266 rec.radio.info:2013
```

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

```
We are seeking a replacement maintainer for the following information
bulletin formerly posted to rec.radio.amateur.* (and currently archived
at http://www.faqs.org/faqs/radio/personal-intro/ ):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article       |
is that it does not mention newer amateur radio newsgroups created since      |
it was written, including:                                                    |

 rec.radio.amateur.antenna                                                    |
 rec.radio.amateur.boatanchors                                                |
 rec.radio.amateur.dx                                                         |
 rec.radio.amateur.equipment                                                  |
 rec.radio.amateur.homebrew                                                   |
 rec.radio.amateur.moderated                                                  |
 rec.radio.amateur.space                                                      |

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions.  We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.




From -8902017974755429799
X-Google-Thread: fc2a5,5388eced052a567e,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.189.194 with SMTP id gk2mr1631645pbc.3.1323430819713;
        Fri, 09 Dec 2011 03:40:19 -0800 (PST)
Path: lh20ni2565pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
n22g2000prh.googlegroups.com!not-for-mail
From: ajar 5 <ajar250@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: online form filling jobs
Date: Fri, 9 Dec 2011 03:40:16 -0800 (PST)
Organization: http://groups.google.com
```

```
Lines: 2
Message-ID: <2d4444cb-75ef-452f-8c90-cc8b90d2d798@n22g2000prh.googlegroups.com>
NNTP-Posting-Host: 117.200.4.144
Mime-Version: 1.0
X-Trace: posting.google.com 1323430819 30541 127.0.0.1 (9 Dec 2011 11:40:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 9 Dec 2011 11:40:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n22g2000prh.googlegroups.com; posting-host=117.200.4.144; posting-
account=6WFZJgoAAAD1UmYCCc8BsE_GoWs9GN6k
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

online from filling jobs
http://onlinejobsprocess.weebly.com/



From -4705100974141475566
X-Google-Thread: fc2a5,5388eced052a567e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.73.229 with SMTP id o5mr1514648pbv.7.1323430877629;
        Fri, 09 Dec 2011 03:41:17 -0800 (PST)
Path: lh20ni2567pbb.0!nntp.google.com!news2.google.com!postnews.google.com!
v24g2000prn.googlegroups.com!not-for-mail
From: ajar 5 <ajar250@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: online form filling jobs
Date: Fri, 9 Dec 2011 03:41:13 -0800 (PST)
Organization: http://groups.google.com
Lines: 2
Message-ID: <7042b421-97c5-4f92-9800-b2651ab32010@v24g2000prn.googlegroups.com>
NNTP-Posting-Host: 117.200.4.144
Mime-Version: 1.0
X-Trace: posting.google.com 1323430877 31177 127.0.0.1 (9 Dec 2011 11:41:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 9 Dec 2011 11:41:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v24g2000prn.googlegroups.com; posting-host=117.200.4.144; posting-
account=6WFZJgoAAAD1UmYCCc8BsE_GoWs9GN6k
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

online from filling jobs
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http://onlinejobsprocess.weebly.com/



From 8631025335063680871
X-Google-Thread: fc2a5,5388eced052a567e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.73.229 with SMTP id o5mr1515559pbv.7.1323430897063;
        Fri, 09 Dec 2011 03:41:37 -0800 (PST)
Path: lh20ni2567pbb.0!nntp.google.com!news2.google.com!postnews.google.com!
u10g2000prl.googlegroups.com!not-for-mail
From: ajar 5 <ajar250@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: online form filling jobs
Date: Fri, 9 Dec 2011 03:41:36 -0800 (PST)
Organization: http://groups.google.com
Lines: 2
Message-ID: <64b72843-26f4-4e3f-95a9-3ed73fcb4339@u10g2000prl.googlegroups.com>
NNTP-Posting-Host: 117.200.4.144
Mime-Version: 1.0
X-Trace: posting.google.com 1323430896 31429 127.0.0.1 (9 Dec 2011 11:41:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 9 Dec 2011 11:41:36 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u10g2000prl.googlegroups.com; posting-host=117.200.4.144; posting-
account=6WFZJgoAAAD1UmYCCc8BsE_GoWs9GN6k
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

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From -2049474373458075489
X-Google-Thread: fc2a5,5388eced052a567e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.189.194 with SMTP id gk2mr1635982pbc.3.1323430942383;
        Fri, 09 Dec 2011 03:42:22 -0800 (PST)
Path: lh20ni2567pbb.0!nntp.google.com!news2.google.com!postnews.google.com!
g1g2000pri.googlegroups.com!not-for-mail
From: ajar 5 <ajar250@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: online form filling jobs
Date: Fri, 9 Dec 2011 03:42:02 -0800 (PST)
Organization: http://groups.google.com
Lines: 2
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```
Message-ID: <0ce14093-7447-4ee5-ad90-eb87a6b58bc8@g1g2000pri.googlegroups.com>
NNTP-Posting-Host: 117.200.4.144
Mime-Version: 1.0
X-Trace: posting.google.com 1323430942 31800 127.0.0.1 (9 Dec 2011 11:42:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 9 Dec 2011 11:42:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g1g2000pri.googlegroups.com; posting-host=117.200.4.144; posting-
account=6WFZJgoAAAD1UmYCCc8BsE_GoWs9GN6k
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

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http://onlinejobsprocess.weebly.com/



From -2711799932811531980
X-Google-Thread: fc2a5,5388eced052a567e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.189.233 with SMTP id gl9mr1513494pbc.8.1323430952775;
        Fri, 09 Dec 2011 03:42:32 -0800 (PST)
Path: lh20ni2565pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
u1g2000prl.googlegroups.com!not-for-mail
From: ajar 5 <ajar250@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: online form filling jobs
Date: Fri, 9 Dec 2011 03:40:40 -0800 (PST)
Organization: http://groups.google.com
Lines: 2
Message-ID: <f8463631-1acf-4e4b-a041-5e49b6f0a50c@u1g2000prl.googlegroups.com>
NNTP-Posting-Host: 117.200.4.144
Mime-Version: 1.0
X-Trace: posting.google.com 1323430952 32042 127.0.0.1 (9 Dec 2011 11:42:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 9 Dec 2011 11:42:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u1g2000prl.googlegroups.com; posting-host=117.200.4.144; posting-
account=6WFZJgoAAAD1UmYCCc8BsE_GoWs9GN6k
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

online from filling jobs
http://onlinejobsprocess.weebly.com/
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```
From 3314885454319l223
X-Google-Thread: fc2a5,5388eced052a567e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.191.41 with SMTP id gv9mr1623970pbc.5.1323431005762;
        Fri, 09 Dec 2011 03:43:25 -0800 (PST)
Path: lh20ni2571pbb.0!nntp.google.com!news2.google.com!postnews.google.com!
r13g2000prr.googlegroups.com!not-for-mail
From: ajar 5 <ajar250@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: online form filling jobs
Date: Fri, 9 Dec 2011 03:43:15 -0800 (PST)
Organization: http://groups.google.com
Lines: 2
Message-ID: <86bd41c0-8219-4d88-b376-cdd9ea903d2c@r13g2000prr.googlegroups.com>
NNTP-Posting-Host: 117.200.4.144
Mime-Version: 1.0
X-Trace: posting.google.com 1323431005 32358 127.0.0.1 (9 Dec 2011 11:43:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 9 Dec 2011 11:43:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r13g2000prr.googlegroups.com; posting-host=117.200.4.144; posting-
account=6WFZJgoAAAD1UmYCCc8BsE_GoWs9GN6k
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

online from filling jobs
http://onlinejobsprocess.weebly.com/



From 806919999961731766
X-Google-Thread: fc2a5,f52e782268b9934b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.73.229 with SMTP id o5mr8752728pbv.7.1323685489789;
        Mon, 12 Dec 2011 02:24:49 -0800 (PST)
Path: lh20ni13603pbb.0!nntp.google.com!news2.google.com!postnews.google.com!
r16g2000prr.googlegroups.com!not-for-mail
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: BEST 10 HOT SEXY VIDEOS AND MASALA KISS PHOTOS
Date: Mon, 12 Dec 2011 02:24:48 -0800 (PST)
Organization: http://groups.google.com
Lines: 51
Message-ID: <1f12186b-eb16-4776-9697-19f466b3aae8@r16g2000prr.googlegroups.com>
```

```
NNTP-Posting-Host: 117.199.249.235
Mime-Version: 1.0
X-Trace: posting.google.com 1323685489 19620 127.0.0.1 (12 Dec 2011 10:24:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 12 Dec 2011 10:24:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r16g2000prr.googlegroups.com; posting-host=117.199.249.235;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.24)
 Gecko/20111103 Firefox/3.6.24,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.com/2011/06/real-kiss-hot-videos.html

HOT HOT LIP KISS
http://hotvideosfreesee.blogspot.com/2010/06/hot-for-youth.html
SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.com/2010/06/hot-101.html
YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.com/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.com/2010/06/supr-hot-never-seen.html
SUPER HOT NEVER SEEN
http://hotvideosfreesee.blogspot.com/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.com/2010/06/kajal-best-lip-kiss.html

for mopre hot videos
http://allvideosforyouth.blogspot.com/2010/08/super-hot-lip-kiss.html

jobs
http://alljobsaywhere.blogspot.com/

mobile

mobile games free download
http://mobileallinforation.blogspot.com/2010/08/mobile-games-free-download.html

mobile ringtones free download
http://mobileallinforation.blogspot.com/2010/08/mobile-ringtones-free-download.html

```
From -4810657656526494550
X-Google-Thread: fc2a5,acefbeff89c4bed8
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.190.71 with SMTP id go7mr14056368pbc.8.1324776339165;
        Sat, 24 Dec 2011 17:25:39 -0800 (PST)
Path: lh20ni60963pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
j1g2000prn.googlegroups.com!not-for-mail
From: Lemon Tree <bitterlemon40@yahoo.ie>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ft 5GHz transistor
Date: Sat, 24 Dec 2011 17:24:14 -0800 (PST)
Organization: http://groups.google.com
Lines: 3
Message-ID: <c290045d-7971-43f6-9863-e5f3b03a871f@j1g2000prn.googlegroups.com>
References: <8403287a-ff9c-4565-94e9-ef1ecda0cc0a@u10g2000prl.googlegroups.com>
 <4k4Dq.1699$Ci1.54@uutiset.elisa.fi>
NNTP-Posting-Host: 113.190.173.219
Mime-Version: 1.0
X-Trace: posting.google.com 1324776337 18144 127.0.0.1 (25 Dec 2011 01:25:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 25 Dec 2011 01:25:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j1g2000prn.googlegroups.com; posting-host=113.190.173.219;
posting-account=7x6AcwoAAAANV7u8W0BE7ye1MHET79y6
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HNKUARELSC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1) AppleWebKit/535.7 (KHTML, like
 Gecko) Chrome/16.0.912.63 Safari/535.7,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

.Thanks for all the feedback. I am interested in the low base
diffusion capacitance aspect as this has important effects on a
regenerative receiver.

```
From -6470513803213337l
X-Google-Thread: fc2a5,2a24e6e84a097b6c,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.189.194 with SMTP id gk2mr14077747pbc.3.1324776488126;
        Sat, 24 Dec 2011 17:28:08 -0800 (PST)
Path: lh20ni60963pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
d6g2000pra.googlegroups.com!not-for-mail
From: Lemon Tree <bitterlemon40@yahoo.ie>
Newsgroups: rec.radio.amateur.homebrew
Subject: Regenerative Radio Receiver Book
Date: Sat, 24 Dec 2011 17:26:44 -0800 (PST)
Organization: http://groups.google.com
Lines: 8
Message-ID: <43f93288-a5db-4d46-a262-9166818a99a0@d6g2000pra.googlegroups.com>
NNTP-Posting-Host: 113.190.173.219
Mime-Version: 1.0
X-Trace: posting.google.com 1324776487 19484 127.0.0.1 (25 Dec 2011 01:28:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 25 Dec 2011 01:28:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d6g2000pra.googlegroups.com; posting-host=113.190.173.219;
posting-account=7x6AcwoAAAANV7u8W0BE7ye1MHET79y6
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HNKUARELSC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1) AppleWebKit/535.7 (KHTML, like
 Gecko) Chrome/16.0.912.63 Safari/535.7,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

I have written a short book on regenerative receiver that I have
available here:
http://www.vendio.com/stores/newproducts
and here:
http://www.webstore.com/Regenerative-Radio-Receiver-
Book,name,13720412,auction_id,auction_details

I also have some negative resistance circuits and other things here:
http://code.google.com/p/lemontree/downloads/list


From -7585591219449384103
X-Google-Thread: fc2a5,e9d09a00bacc0b4f,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.205.124.10 with SMTP id gm10mr1599958bkc.8.1325329478370;
        Sat, 31 Dec 2011 03:04:38 -0800 (PST)
Path: cj8ni7244bkb.0!nntp.google.com!news1.google.com!postnews.google.com!
d8g2000vbb.googlegroups.com!not-for-mail
From: kwame oleur <mikbaah@gmail.com>
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: twi version of chris brown's i should have kissed you
Date: Sat, 31 Dec 2011 02:48:09 -0800 (PST)
Organization: http://groups.google.com
Lines: 1
Message-ID: <f28f7400-7ee0-4246-a66c-b2c483de155b@d8g2000vbb.googlegroups.com>
NNTP-Posting-Host: 197.251.184.180
Mime-Version: 1.0
X-Trace: posting.google.com 1325329478 2532 127.0.0.1 (31 Dec 2011 11:04:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 31 Dec 2011 11:04:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d8g2000vbb.googlegroups.com; posting-host=197.251.184.180;
posting-account=z6mumQoAAAB7VLFN-1ehi-qQCWDQ9WL0
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0.1) Gecko/20100101 Firefox/
8.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

http://youtu.be/EukneiFKym0


From 2484523475292507622
X-Google-Thread: fc2a5,7c8a87cb11cc6351,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.205.136.10 with SMTP id ii10mr1659149bkc.7.1325366015811;
        Sat, 31 Dec 2011 13:13:35 -0800 (PST)
Path: cj8ni9954bkb.0!nntp.google.com!news1.google.com!postnews.google.com!
b14g2000prn.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Cleaning bookshelves:  data books, anyone?
Date: Sat, 31 Dec 2011 13:12:25 -0800 (PST)
Organization: http://groups.google.com
Lines: 9
Message-ID: <7295f6a6-907d-4712-86d8-1a9aeaee6012@b14g2000prn.googlegroups.com>
NNTP-Posting-Host: 50.46.189.195
Mime-Version: 1.0
X-Trace: posting.google.com 1325365945 17730 127.0.0.1 (31 Dec 2011 21:12:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 31 Dec 2011 21:12:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b14g2000prn.googlegroups.com; posting-host=50.46.189.195; posting-
account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:8.0) Gecko/20100101 Firefox/
8.0,gzip(gfe)
```

```
Content-Type: text/plain; charset=ISO-8859-1
```

I'm getting tired of looking at all the old data books on my shelves that I seldom/never use. Anyone interested in such things? My collection is mostly semiconductor: Motorola, TI, National, ... I can recycle them for free, but if someone wants to pick them up or pay for shipping plus some nominal charge for packing them, I'd be happy to get rid of them that way.

Cheers,
Tom

```
From -6405123184070946l5
X-Google-Thread: fc2a5,7c8a87cb11cc6351
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.196.130 with SMTP id im2mr9480364pbc.3.1325376788137;
        Sat, 31 Dec 2011 16:13:08 -0800 (PST)
MIME-Version: 1.0
Path: lh20ni88610pbb.0!nntp.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 31 Dec 2011 18:11:44 -0600
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <7295f6a6-907d-4712-86d8-1a9aeaee6012@b14g2000prn.googlegroups.com>
Subject: Re: Cleaning bookshelves:  data books, anyone?
Date: Sat, 31 Dec 2011 18:11:44 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
Message-ID: <WaKdnS9cFc1dOWLTnZ2dnUVZ_u-dnZ2d@giganews.com>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-z1GPw+57Z+03OYsP0170q+QS8MfNv07auI2NCS1G8VB4purU8a7Kxg/
F6gG1xcBOBm1c141MBcly8d0!s0+4487z1hrHdG/
ymaKdZW+JbQpH03318tXaHTVZNLbqd2Rxl9K9A7U4TVzVfXhgHSGmhcIG6gQ=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1966
```

K7ITM wrote:
> I'm getting tired of looking at all the old data books on my shelves
> that I seldom/never use. Anyone interested in such things? My
> collection is mostly semiconductor: Motorola, TI, National, ... I

> can recycle them for free, but if someone wants to pick them up or pay
> for shipping plus some nominal charge for packing them, I'd be happy
> to get rid of them that way.
>
> Cheers,
> Tom

How about a list of the manuals? I'd hate to spend a lot of loot on
shipping charges for a bunch of books that I already have.
Are they databooks? Which technology?
Application manuals? Which vendors? Approx year of publication?

Thanks for offering them to us before recycling.
--
Things work out best for the people who make the best of the way things
work out.

Dave M

```
From 5443465367832974112
X-Google-Thread: fcc6e,532bb725482474cf,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,532bb725482474cf,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,532bb725482474cf,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,532bb725482474cf,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,532bb725482474cf,start
X-Google-NewGroupId: yes
X-Google-Thread: 10e8ad,532bb725482474cf,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,532bb725482474cf,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gid241b302a50,gida3e752f117,gide721ae2bf6,gid8f86f7595
3,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.212.98 with SMTP id nj2mr4921661pbc.8.1325401204759;
        Sat, 31 Dec 2011 23:00:04 -0800 (PST)
MIME-Version: 1.0
Path: lh20ni91635pbb.0!nntp.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!novia!nx02.iad01.newshosting.com!
newshosting.com!news-out.readnews.com!transit3.readnews.com!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
```

Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1322722801@panix.com>
Followup-To: poster
Date: 1 Jan 2012 02:00:02 -0500
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Feb 2012 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1325401201@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1325401203 3412 166.84.1.2 (1 Jan 2012 07:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 1 Jan 2012 07:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.2 2011/11/02 04:08:53
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team had decided to consider |
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. After a successful trial |
period (90 days, through early July 2009), we decided to adopt this |
change permanently. |

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either

"radio.amateur" or "ham-radio" in their names, including
uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.

```
From 6186796494627933335
X-Google-Thread: fc2a5,33b0c58c432346ab,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.196.130 with SMTP id im2mr11357729pbc.3.1325467243605;
        Sun, 01 Jan 2012 17:20:43 -0800 (PST)
Path: lh20ni98397pbb.0!nntp.google.com!news1.google.com!goblin2!
goblin.stu.neva.ru!feeder.erje.net!newsfeed.datemas.de!news.datemas.de!not-for-
mail
From: Warren <warrens@ns.DOT.sympatico.DOT.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: 6-meter 1kW amplifier modules
Date: Sun, 01 Jan 2012 21:19:35 -0400
Organization: Datemas.de http://www.news.datemas.de
Lines: 25
Message-ID: <jdr0ml$b25$3@news.datemas.de>
Reply-To: warrens@ns.DOT.sympatico.DOT.ca
Mime-Version: 1.0
X-Trace: news.datemas.de +KcJV8m3zoC0zcXCLApCU34dt4U5XFm/
ybccOzUtezidYmstOloRdwDzHXZ69A8vaeKty0OKT8KJygCSVsjCK6VtA/
N141oCO3dHVGXOJOlxQFk1yEggaZNjoW0pHXcV9jeZ+Wx2XlUFDMMsDmww+EuX5yMl2bMr2KTthkpQ7Zo=
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Mon, 2 Jan 2012 01:19:17 +0000 (UTC)
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.8) Gecko/
20100205 SeaMonkey/2.0.3
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

I have several 1kW television transmitter modules that will work fine on 6 meters.

A full write up and pictures are available here.
http://www.gemoto.com/LarcanPA.htm

These are the "low-split" modules that do not require any further
modification.

With some work, these amplifiers will produce well over 1kW on 2 meters.
  Check this writeup by Brian Justin, WA1ZMS
http://members.rennlist.org/warren/larcan_2m.pdf

RF input and DC input connectors are included but other parts are needed
to get operational. DC power supply 50V @ 50A, RF coaxial relays,
cooling fans, etc. Some assembly required. :)

Price as per the web page above, $370 plus packing and shipping from
Nova Scotia, Canada. Total cost approx $455 - $470. Proceeds of the
sale go towards my ham club.

Contact info on my original ad on QRZ.
http://forums.qrz.com/showthread.php?324147-6M-solid-state-1kW-amplifiers

```
From -1209758381242372
X-Google-Thread: fc2a5,7c8a87cb11cc6351
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.190.2 with SMTP id gm2mr33685846pbc.4.1325528780670;
        Mon, 02 Jan 2012 10:26:20 -0800 (PST)
Path: lh20ni104529pbb.0!nntp.google.com!news2.google.com!postnews.google.com!
d6g2000pra.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cleaning bookshelves: data books, anyone?
Date: Mon, 2 Jan 2012 10:24:35 -0800 (PST)
Organization: http://groups.google.com
Lines: 32
Message-ID: <04694c8c-ca0a-4db2-98d8-67217267017e@d6g2000pra.googlegroups.com>
References: <7295f6a6-907d-4712-86d8-1a9aeaee6012@b14g2000prn.googlegroups.com>
 <WaKdnS9cFc1dOWLTnZ2dnUVZ_u-dnZ2d@giganews.com>
NNTP-Posting-Host: 50.46.189.195
Mime-Version: 1.0
X-Trace: posting.google.com 1325528676 17616 127.0.0.1 (2 Jan 2012 18:24:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 2 Jan 2012 18:24:36 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d6g2000pra.googlegroups.com; posting-host=50.46.189.195; posting-
account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:8.0) Gecko/20100101 Firefox/
8.0,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
```

```
On Dec 31 2011, 4:11=A0pm, "Dave M" <dgminala4...@mediacombb.net> wrote:
> K7ITM wrote:
> > I'm getting tired of looking at all the old data books on my shelves
> > that I seldom/never use. =A0Anyone interested in such things? =A0My
> > collection is mostly semiconductor: =A0Motorola, TI, National, ... =A0I
> > can recycle them for free, but if someone wants to pick them up or pay
> > for shipping plus some nominal charge for packing them, I'd be happy
> > to get rid of them that way.
>
> > Cheers,
> > Tom
>
> How about a list of the manuals? =A0I'd hate to spend a lot of loot on
> shipping charges for a bunch of books that I already have.
> Are they databooks? =A0Which technology?
> Application manuals? =A0Which vendors? Approx year of publication?
>
> Thanks for offering them to us before recycling.
> --
> Things work out best for the people who make the best of the way things
> work out.
>
> Dave M

I assume Dave got the email I sent him yesterday with a partial list,
and that nobody else has any interest (either).  That's quite
reasonable, considering the availability of old data sheets as PDFs on
the web these days...which is a large part of why I'm wanting to get
these books outta here.

Cheers,
Tom


From -5970342885113378091
X-Google-Thread: fc2a5,7c8a87cb11cc6351
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.196.130 with SMTP id im2mr13664306pbc.3.1325560245328;
        Mon, 02 Jan 2012 19:10:45 -0800 (PST)
MIME-Version: 1.0
Path: lh20ni108290pbb.0!nntp.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 02 Jan 2012 21:10:44 -0600
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <7295f6a6-907d-4712-86d8-1a9aeaee6012@b14g2000prn.googlegroups.com>
<WaKdnS9cFc1dOWLTnZ2dnUVZ_u-dnZ2d@giganews.com> <04694c8c-
ca0a-4db2-98d8-67217267017e@d6g2000pra.googlegroups.com>
Subject: Re: Cleaning bookshelves: data books, anyone?
```

Date: Mon, 2 Jan 2012 21:10:43 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6157
X-RFC2646: Format=Flowed; Original
Message-ID: <VaudnWc65-8o7J_SnZ2dnUVZ_qSdnZ2d@giganews.com>
Lines: 58
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-XYau9299EcM17HGz2bPiQbshfcHN3Dz0rlQ6JR/
xvAWoFaaXWApqVFubW85oF7ran4DbeEiUTtMt8+c!
N2JxQ8KqPGnUqBiTRPYsHuaTETUBXVlI0ZITCuMRbM0F4Md6wbe5zHSFhywoUS6ZzbC9ncM8dAE=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 3111

K7ITM wrote:
> On Dec 31 2011, 4:11 pm, "Dave M" <dgminala4...@mediacombb.net> wrote:
>> K7ITM wrote:
>>> I'm getting tired of looking at all the old data books on my shelves
>>> that I seldom/never use. Anyone interested in such things? My
>>> collection is mostly semiconductor: Motorola, TI, National, ... I
>>> can recycle them for free, but if someone wants to pick them up or
>>> pay for shipping plus some nominal charge for packing them, I'd be
>>> happy to get rid of them that way.
>>
>>> Cheers,
>>> Tom
>>
>> How about a list of the manuals? I'd hate to spend a lot of loot on
>> shipping charges for a bunch of books that I already have.
--
David
dgminala at mediacombb dot net

--
Dave M
A woman has the last word in any argument. Anything a man says after
that is the beginning of a new argument.
>> Are they databooks? Which technology?
>> Application manuals? Which vendors? Approx year of publication?
>>
>> Thanks for offering them to us before recycling.
>> --
>> Things work out best for the people who make the best of the way
>> things work out.
>>
>> Dave M

>
> I assume Dave got the email I sent him yesterday with a partial list,
> and that nobody else has any interest (either). That's quite
> reasonable, considering the availability of old data sheets as PDFs on
> the web these days...which is a large part of why I'm wanting to get
> these books outta here.
>
> Cheers,
> Tom

Hi Tom,
Thanks for following up on the books. No, I didn't get your email with the list of manuals. If you don't mind, please send it again. My correct email is
dgminala at mediacombb dot net.   Just substitute the appropriate characters for the "at" and "dot" the address.

--
Things work out best for the people who make the best of the way things work out.

Dave M

```
From -5805901065288793 87
X-Google-Thread: fc2a5,3ad680ce71472748,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.117.197 with SMTP id kg5mr435453pbb.5.1325828151926;
        Thu, 05 Jan 2012 21:35:51 -0800 (PST)
Path: lh20ni139752pbb.0!nntp.google.com!news2.google.com!postnews.google.com!
h12g2000yqg.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT SEX BED ROOM VIDEOS AND 200 BEST ACTRESSES PHOTOS
Date: Thu, 5 Jan 2012 21:35:51 -0800 (PST)
Organization: http://groups.google.com
Lines: 49
Message-ID: <4990793a-c167-4ffe-a8aa-f23dc8e6a85e@h12g2000yqg.googlegroups.com>
NNTP-Posting-Host: 117.213.132.23
Mime-Version: 1.0
X-Trace: posting.google.com 1325828151 18271 127.0.0.1 (6 Jan 2012 05:35:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 6 Jan 2012 05:35:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h12g2000yqg.googlegroups.com; posting-host=117.213.132.23;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-Google-Web-Client: true
```

```
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.25)
 Gecko/20111212 Firefox/3.6.25,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

hot videos

real kiss videos
http://videos2youth.blogspot.com/2011/11/real-kiss-videos.html
first night hot videos
http://videos2youth.blogspot.com/2011/11/first-night-hot-videos.html
mallu hot videos
http://videos2youth.blogspot.com/2011/11/mallu-hot-videos.html
indian bedroom hot
http://videos2youth.blogspot.com/2011/11/indian-bedroom-hot.html
romantic videos
http://videos2youth.blogspot.com/2011/11/romantic-videos.html

HOT PHOTOS

lip kiss photos
http://photostwo2u.blogspot.com/2010/09/photos.html
bikini photos
http://photostwo2u.blogspot.com/2010/09/photos-2.html
SEXY PHOTOS
http://photostwo2u.blogspot.com/2010/09/photos-3.html
indian hot photos
http://photostwo2u.blogspot.com

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

From -5467566136790982839
X-Google-Thread: fc2a5,2e10cf00f1acb7d8,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.129.78 with SMTP id n14mr513473bks.5.1325919904705;
        Fri, 06 Jan 2012 23:05:04 -0800 (PST)
MIME-Version: 1.0
Path: cj8ni65701bkb.0!nntp.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!novia!news-out.readnews.com!
transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1323241500@panix.com>
Followup-To: poster
Date: 7 Jan 2012 02:05:01 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Feb 2012 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1325919900@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1325919901 22264 166.84.1.2 (7 Jan 2012 07:05:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 7 Jan 2012 07:05:01 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information

bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |
rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

```
From 2483824343941643298
X-Google-Thread: fc2a5,fff45c3357db6cfd,start
X-Google-NewGroupId: yes
X-Google-Thread: 111d0a,fff45c3357db6cfd,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid84c4645802,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.75.170 with SMTP id d10mr2533397pbw.6.1326517643994;
        Fri, 13 Jan 2012 21:07:23 -0800 (PST)
Path: lh20ni179962pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
a11g2000vbz.googlegroups.com!not-for-mail
From: rrusston@hotmail.com
Newsgroups: rec.radio.amateur.homebrew,rec.audio.tubes,sci.electronics.basics
Subject: 7377 tube also known as QQE04-5-what was it for?
Date: Fri, 13 Jan 2012 21:07:23 -0800 (PST)
```

```
Organization: http://groups.google.com
Lines: 1
Message-ID: <fc32a268-d63b-4543-a149-b375a6da4cf8@a11g2000vbz.googlegroups.com>
NNTP-Posting-Host: 63.78.113.42
Mime-Version: 1.0
X-Trace: posting.google.com 1326517643 27717 127.0.0.1 (14 Jan 2012 05:07:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 14 Jan 2012 05:07:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a11g2000vbz.googlegroups.com; posting-host=63.78.113.42; posting-
account=EnUuawoAAADYoiB3t0gLR4zyUFckP7CK
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:9.0.1) Gecko/20100101 Firefox/
9.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1
```

I just got four of these little buggers. What was it used for?

```
From 1378221397182667467
X-Google-Thread: fc2a5,4bb3b096e079710a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.189.202 with SMTP id gk10mr2575085pbc.4.1326518968866;
        Fri, 13 Jan 2012 21:29:28 -0800 (PST)
Path: lh20ni180012pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
cf6g2000vbb.googlegroups.com!not-for-mail
From: rrusston@hotmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking modern catalog of vacuum tubes
Date: Fri, 13 Jan 2012 21:22:37 -0800 (PST)
Organization: http://groups.google.com
Lines: 22
Message-ID: <02df8417-14c6-4ce8-a22a-e6e544eef9f2@cf6g2000vbb.googlegroups.com>
References: <j9fu1u$12f$1@frotz.eternal-september.org> <13cbc326-ade0-4ab9-a8ac-
ab44e4cdb0ba@m19g2000yqh.googlegroups.com>
 <jap37h$ipu$1@dont-email.me>
NNTP-Posting-Host: 63.78.113.42
Mime-Version: 1.0
X-Trace: posting.google.com 1326518968 8801 127.0.0.1 (14 Jan 2012 05:29:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 14 Jan 2012 05:29:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: cf6g2000vbb.googlegroups.com; posting-host=63.78.113.42; posting-
account=EnUuawoAAADYoiB3t0gLR4zyUFckP7CK
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:9.0.1) Gecko/20100101 Firefox/
9.0.1,gzip(gfe)
```

Content-Type: text/plain; charset=ISO-8859-1

What is currently being made are audio tubes, plus perhaps 6146s, 807s, 811s, 572bs, and a few rectifier tubes. Guitar amplifiers are why there is still even such a thing as a new small tube business. 12AX7s,ATs, maybe AYs, EL84s,EL34s, 6L6s,6550s, KT88s, and a few mixafewofem spec beam power pentodes. There are also some power triodes including 2A3, 300B, etc but at ridiculous prices.

Better you should ask: What tubes can I get cheap in quantity? That I can get a lifetime supply of cheap? Answer: the tubes that DON"T go into guitar amps, hi-fi equipment, CB linears (sweep tubes) or the few specific rare types that are scarce for old radios people collect. Answer: everything else. Almost all series string heater types. Six and twelve volt heater tubes for TVs. Design around those rather than the types you have to bid against guitar and hi-fi people, who often have too much money.

I would use seven and nine pin miniatures out of the later RCA tube manuals as much as possible after checking to see that the price is cheap, from a tube vendor price list. When you rule out popular audio types and sweep tubes and the rare birds like 6E5 seeing eyes, the rest are cheap. Audio sharks often buy whole tube caddys and throw the series string tubes in the dumpster.

From 299494556540098654
X-Google-Thread: fc2a5,fff45c3357db6cfd
X-Google-NewGroupId: yes
X-Google-Thread: 111d0a,fff45c3357db6cfd
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid84c4645802,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.196.130 with SMTP id im2mr2606862pbc.3.1326520007274;
        Fri, 13 Jan 2012 21:46:47 -0800 (PST)
Path: lh20ni180061pbb.0!nntp.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 13 Jan 2012 23:46:46 -0600
From: Tom Biasi <tombiasi@optonline.net>
Newsgroups: rec.radio.amateur.homebrew,rec.audio.tubes,sci.electronics.basics
Subject: Re: 7377 tube also known as QQE04-5-what was it for?
Date: Sat, 14 Jan 2012 00:48:07 -0500
Message-ID: <ql52h7tf989moegdal28vnm8ni0e3u3miq@4ax.com>
References: <fc32a268-d63b-4543-a149-b375a6da4cf8@a11g2000vbz.googlegroups.com>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Lines: 8
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-iPtqPnsNru2Gre683PddNVU00BOXyAITrhpvwe//SfscIASvWd/KfIfjFjMRIFBKq+kPRB46uGFnczl!kBKHo+xqDPAjrUh3Ln0qCn7LT93RMVF+wNLRFmcVNC0TQdCgV8DEsj1Y3muY39q72R8W1nIh
X-Complaints-To: abuse@giganews.com

```
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1383
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Fri, 13 Jan 2012 21:07:23 -0800 (PST), rrusston@hotmail.com wrote:
It is a transmitting tube with a 12.6 volt filament.
What do you need to know?
They do have some value today.

Tom

>I just got four of these little buggers. What was it used for?


From -3895237800680875997
X-Google-Thread: fc2a5,51814ba3144d2d99,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.73.229 with SMTP id o5mr3246784pbv.7.1326542755392;
        Sat, 14 Jan 2012 04:05:55 -0800 (PST)
Path: lh20ni181039pbb.0!nntp.google.com!news2.google.com!postnews.google.com!
c9g2000pbh.googlegroups.com!not-for-mail
From: "mmotut.com" <sadtearuit26@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Make money online Tutorial - mmotut.com
Date: Sat, 14 Jan 2012 04:05:52 -0800 (PST)
Organization: http://groups.google.com
Lines: 31
Message-ID: <582fbc34-8165-467c-a164-f2f7ed21b0e6@c9g2000pbh.googlegroups.com>
NNTP-Posting-Host: 113.165.99.199
Mime-Version: 1.0
X-Trace: posting.google.com 1326542754 24023 127.0.0.1 (14 Jan 2012 12:05:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 14 Jan 2012 12:05:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c9g2000pbh.googlegroups.com; posting-host=113.165.99.199; posting-
account=eRyG7goAAAAjY1k2SDh7ywEhBBm9DyFV
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:9.0.1) Gecko/20100101
Firefox/9.0.1,gzip(gfe)
Content-Type: text/plain; charset=ISO-8859-1

Make money online Tutorial

Add your URL to search engine
```

http://www.mmotut.com/2011/08/vol-01.html
To get more traffics from search engine, you can add your URL to search engine:

Add your URL to Google
Add your URL to Yahoo
Add your URL to Bing
Add your URL to WhatUseek
Add your URL to TheLivingLink

Earn Money With Your Affiliate Marketing Plan
http://www.mmotut.com/2011/08/vol-02.html

Affiliate marketing can be an excellent way to make money online.
There are numerous free affiliate programs anyone can join

Using ClickBank To Work From The Internet
http://www.mmotut.com/2011/08/vol-05.html

Tips for Using Affiliate Programs
http://www.mmotut.com/2011/08/vol-04.html

How To Earn Money From Internet With Affiliate Marketing
http://www.mmotut.com/2011/08/vol-06.html

More and more at: http://mmotut.com

```
From -1464920052209046650
X-Google-Thread: fc2a5,fff45c3357db6cfd
X-Google-NewGroupId: yes
X-Google-Thread: 111d0a,fff45c3357db6cfd
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid84c4645802,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.189.202 with SMTP id gk10mr5096027pbc.4.1326625749848;
        Sun, 15 Jan 2012 03:09:09 -0800 (PST)
Path: lh20ni184589pbb.0!nntp.google.com!news2.google.com!goblin2!
goblin.stu.neva.ru!newsfeed1.swip.net!news.astraweb.com!
border6.a.newsrouter.astraweb.com!not-for-mail
From: mick <invalid@invalid.invalid>
Subject: Re: 7377 tube also known as QQE04-5-what was it for?
Newsgroups: rec.radio.amateur.homebrew,rec.audio.tubes,sci.electronics.basics
Followup-To: rec.audio.tubes
References: <fc32a268-d63b-4543-a149-b375a6da4cf8@a11g2000vbz.googlegroups.com>
User-Agent: Pan/0.135 (Tomorrow I'll Wake Up and Scald Myself with Tea; GIT
     30dc37b master)
MIME-Version: 1.0
Date: 15 Jan 2012 11:09:09 GMT
Lines: 17
Message-ID: <4f12b3d5$0$7431$c3e8da3$26f9d57d@news.astraweb.com>
```

Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 5180d2ab.news.astraweb.com
X-Trace: DXC=d;UJn2CWIjCMnc]O[a9m]EL?
0kYOcDh@J`;bKUjH>BeF=`CGFDfdLbDeBgeYLbiY^A:SiU9D:@j4O;b0kSKNBiUN2G2n6QJn67HShJ:I=J
c]=H
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

On Fri, 13 Jan 2012 21:07:23 -0800, rrusston wrote:

> I just got four of these little buggers. What was it used for?

VHF push-pull transmitter, like the rest of the QQ series. Double tetrode
with a common cathode and common g2. Interesting pinout isn't it?

I have some QQV03-10 valves that I intend to try for audio. They are
supposed to be quite good.

FU set to rec.audio.tubes

--
Mick   (Working in a M$-free zone!)
Web: http://www.nascom.info
Filtering everything posted from googlegroups to kill spam.

From -2647269617305806093
X-Google-Thread: fc2a5,e556fcb84e485b14,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Received: by 10.68.211.195 with SMTP id ne3mr5399062pbc.2.1326638249934;
        Sun, 15 Jan 2012 06:37:29 -0800 (PST)
Path: lh20ni185138pbb.0!nntp.google.com!news2.google.com!postnews.google.com!
a8g2000vba.googlegroups.com!not-for-mail
From: tbwork2 tbwork <tbwork.ads007@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Updated List 2012 Solutions Manuals, Instructor Manuals & Test Banks
 Collection. Largest Collection Over The Net !!!
Date: Sun, 15 Jan 2012 06:21:49 -0800 (PST)
Organization: http://groups.google.com
Lines: 4571
Message-ID: <82412a38-89a3-4b0e-92c9-beda4fc93345@a8g2000vba.googlegroups.com>
NNTP-Posting-Host: 79.134.145.206
Mime-Version: 1.0
X-Trace: posting.google.com 1326638249 23873 127.0.0.1 (15 Jan 2012 14:37:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 15 Jan 2012 14:37:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a8g2000vba.googlegroups.com; posting-host=79.134.145.206; posting-
account=YwTEwAoAAAB_2FbypLi9tf975-F2fO4k
User-Agent: G2/1.0

```
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:9.0.1) Gecko/20100101 Firefox/
9.0.1,gzip(gfe)
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
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We the People; An Introduction to American Politics, 7th Edition, Ginsberg.Lowi.Weir, Instructor Manual

We the People; An Introduction to American Politics, 7th Edition, Ginsberg.Lowi.Weir, Test Bank

We the People; An Introduction to American Politics, 8th Edition, Ginsberg.Lowi.Weir, Instructor Manual

We the People; An Introduction to American Politics, 8th Edition, Ginsberg.Lowi.Weir, Test Bank

We the People; An Introduction to American Politics_Essentials Edition, 8th Edition, Ginsberg.Lowi.Weir, Instructor Manual

We the People; An Introduction to American Politics_Essentials Edition, 8th Edition, Ginsberg.Lowi.Weir, Test Bank

We the People; An Introduction to American Politics_Texas Edition, 8th Edition, Ginsberg.Lowi.Weir, Instructor Manual

We the People; An Introduction to American Politics_Texas Edition, 8th Edition, Ginsberg.Lowi.Weir, Test Bank

Web Design; Introductory, 4th Edition 2012, Shelly.Campbell, Instructor Manual & Solutions Manual

Web Design; Introductory, 4th Edition 2012, Shelly.Campbell, Test Bank

Western Civilizations, 16th Edition, Coffin.Stacey, Instructor Manual

Western Civilizations, 16th Edition, Coffin.Stacey, Test Bank

Western Civilizations, 7th Edition, Coffin.Stacey.Cole.Symes, Instructor Manual

Western Civilizations, 7th Edition, Coffin.Stacey.Cole.Symes, Test Bank

Western Civilizations_Brief, 2nd Edition, Coffin.Stacey, Instructor Manual

Western Civilizations_Brief, 2nd Edition, Coffin.Stacey, Test Bank

What's That Sound; An Introduction to Rock and Its History, 2nd Edition, John Covach, Test Bank

Women and Justice; It's a Crime, 5th Edition 2012, Roslyn Muraskin, Instructor Manual

Women and Justice; It's a Crime, 5th Edition 2012, Roslyn Muraskin, Test Bank

World Politics; Interests_Interactions_Institutions, 1st Edition, Frieden.Lake.Schultz, Instructor Manual

World Politics; Interests_Interactions_Institutions, 1st Edition, Frieden.Lake.Schultz, Test Bank

Worlds Together_Worlds Apart, 2nd Edition,
Tignor.Adelman.Aron.Brown.Elman.Kotkin.Liu.Marchand.Pittman.Prakash.Shaw.Ts=
in,
Instructor Manual

Worlds Together_Worlds Apart, 2nd Edition,
Tignor.Adelman.Aron.Brown.Elman.Kotkin.Liu.Marchand.Pittman.Prakash.Shaw.Ts=
in,
Test Bank

Worlds Together_Worlds Apart, 3rd Edition, Tignor.Adelman.Aron.Brown,
Instructor Manual

Worlds Together_Worlds Apart, 3rd Edition, Tignor.Adelman.Aron.Brown,
Test Bank

You May Ask Yourself; An Introduction to Thinking Like a Sociologist,
1st Edition, Dalton Conley, Instructor Manual

You May Ask Yourself; An Introduction to Thinking Like a Sociologist,
1st Edition, Dalton Conley, Test Bank

You May Ask Yourself; An Introduction to Thinking Like a Sociologist,
2nd Edition, Dalton Conley, Test Bank

=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D

Contact Us At :
tbwork.ads(at)gmail.com .

```
From -4549568544023339362
X-Google-Thread: 241b302a50,dc0f1023a345920a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!15g2000vbw.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 1448 TTL to rs232 driver problem
Date: Wed, 27 Jul 2011 15:21:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 50
Message-ID: <6df78db8-9e11-474f-9652-5401862eb5ec@15g2000vbw.googlegroups.com>
References: <50ac723a-b303-454e-810d-615bcb6e7631@j15g2000yqf.googlegroups.com>
 <fJadnXcrSq4LabLTnZ2dnUVZ_rudnZ2d@bright.net>
NNTP-Posting-Host: 155.178.5.19
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1311805310 5970 127.0.0.1 (27 Jul 2011 22:21:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Jul 2011 22:21:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 15g2000vbw.googlegroups.com; posting-host=155.178.5.19; posting-
account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLUHCNK
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
 Trident/4.0; .NET CLR 2.0.50727),gzip(gfe)
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:4855

On Jul 27, 7:21=A0am, Scott <acepilotREM...@bloomer.net> wrote:
> On 7-26-2011 20:34, JIMMIE wrote:
>
>
>
>
>
> > 30 year old piece of equipment operating pretty much flawlessly for
> > that entire period. VCC and VEE on the 1448 is +/- 15 volts and the
> > chip is overheating..... even with inputs and outputs disconnected the
> > chip still overheats(130 F). I noticed that the manufacturer's sets
> > the MAX =A0power supply voltages at +/- 15 and understand this was
> > probably designed on the hairy edge of failure but like I said its
> > been working for 30 years and replacement chips work no better, what
> > gives. Power supply can not be adjusted and there are other chips on
> > the board that require the +- 15. d BTW cooling the chip makes it
> > work. operating the chip from an external +- 12V power supply makes it
> > work but modifying the circuit may not be an option. I saw where there
> > are some CMOS versions of the 1488, I was wondering if they would
> > handle the +- 15 volts better.
>
> > TIA
> > Jimmie
>
> Can you cut the circuit trace of the voltages (Vcc, Vee) feeding the IC
> and strap in a pair of diodes (in series) such as IN914 types in each
> supply line? =A0Each diode drops about .7V, so you would end up with abou=
t
> +/- 13.5V at the IC. =A0If you want even lower voltage at the IC, add in
> another diode or two in each supply line. =A0Ensure proper polarity...in
> the Vcc supply lines, the diode cathodes would go toward the IC and the
> Vee diodes would have the anodes toward the IC. =A0Just a thought. =A0Or,=
 if
> you know how much current the device draws through each supply (Vcc and
> Vee), you could place a single zener diode in series with the supply
> voltages to the IC and the polarities would be opposite of using 1N914
> diodes. =A0Just find a zener of about 2.5-3V that is rated at about twice
> the current the IC draws from each supply.
>
> N0EDV- Hide quoted text -
>
> - Show quoted text -

Thanks Scott, that was my first thought but I am not allowed to
modify the board... I was hoping the CMOS version of the old chip may
work at the elevated voltage level. Im thinking the one that has
worked all these years was a cherry picked mil spec device, its PN is
751448

Jimmie

```
From 9166929830643367839
X-Google-Thread: 241b302a50,7a09acacb67ee3a7
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!eternal-
september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ultimate transmatch
Date: Wed, 27 Jul 2011 19:41:05 -0400
Organization: A noiseless patient Spider
Lines: 48
Message-ID: <j0q7mi$3fg$1@dont-email.me>
References: <j0ff62$lu8$1@dont-email.me>
<k4sn27h1kcqkijkqi53hlnu75baucntqbi@4ax.com> <j0hr6j$e74$1@dont-email.me>
<4e6dnQxictmKDbHTnZ2dnUVZ_uWdnZ2d@earthlink.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Wed, 27 Jul 2011 23:41:06 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="npBA2Opoqmap3wGa1T7hJQ";
     logging-data="3568"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+UpeLqdct+TvtQOnXLp65kiuxeDJWA+HM="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.18) Gecko/20110617
Thunderbird/3.1.11
In-Reply-To: <4e6dnQxictmKDbHTnZ2dnUVZ_uWdnZ2d@earthlink.com>
Cancel-Lock: sha1:1OS9YhiRt0yuYDx7o47iUx9jgSA=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4856

On 07/24/2011 05:35 PM, Ralph Mowery wrote:
> "Kenneth Scharf"<wa2mze@bellsouth.net>  wrote in message
> news:j0hr6j$e74$1@dont-email.me...
>> For the most part I will be using coax fed antennas.
>>
>> There is an idea I've been thinking about and I wonder if it will work.
>> There is a myth that high SWR on coax will produce a high line loss. Most
>> of the loss involved with having a high SWR is in the coupling to the
>> receiver / transmitter, not so much in the transmission line itself, at
>> least not at HF.  So long as a high voltage is no present on the
>> transmission line (arc over) or a very high current (resistive loss), and
>> the dielectric material does not introduce loss at the frequency involved
>> common 1/2" dia coax should work fine as an unbalanced feed line even at a
>> high swr ratio.
>>
>
> There is no myth that high swr can cause high loss, especially in coax.
>
> It depends on how much loss the line has and how much the swr actually is.
> If you only have a db or so of loss, then a 5:1 swr is not that much of an
> issue.  If you have a line loss of 2 or 3 db or more and then have a 5:1 swr
> or higher, you can loose 3 db or more in the feedline in addition to the
```

> actual loss in the feedline at a matched load
>
> Below 440 there is very little loss in the dielectric, but mostly in the
> center wire of the coax and then usually the shield. As the swr goes up,
> the IR loss of the conductors goes up.
>
> As far as the coupling loss to the transmitter, most modern transceivers are
> set for a 50 ohm load and will cut the power back or not couple very well to
> the transmission line. Even most of the built in tuners are only good for
> about a 3:1 swr.
>
>

Exactly the point. RG8/U and similar 1/2" diameter coax have very low loss over the typical 100 ft length at frequencies below 30mhz. So it should be possible to put a balum transformer (coax choke) between the coax and a balanced antenna (dipole), perhaps with a length of balanced line between the balum and the antenna. In my case the run from the shack to the roof would be around 30' or less. I can't run twin lead (open wire) line between the shack and the roof, but I can run it from that point to a dipole. I also don't want the tuner outside the shack.
  Hard line might even be a better idea, CATV type hard line is typically 75 ohm impedance. I'd have to have the special connectors for the stuff, and would need to have a short length of RG/8U from the hardline to the transmatch, and another from the hardline to the balum (because it would need to be flexible at those points.

```
From 225049052889881924
X-Google-Thread: 241b302a50,4e180f49f24a9828,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 27 Jul 2011 19:08:03 -0500
Date: Wed, 27 Jul 2011 19:03:04 -0500
From: Paul Probert <paulprobert@sbcglobal.net>
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.18) Gecko/20110617
Thunderbird/3.1.11
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: obsolete Agilent SA - how to upgrade?
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <oil6g8-7n2.ln1@giganews.com>
Lines: 9
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
VBNbXVkhv5EOmchuPMnpz49SqJY7nuKA6epyMnvnfrXnprSt+oqTyTfz7FYtRlC5joGOnAKL0vpmKjx!
ZCOLMxJYBIBVbMijLWPMcmOIWx8IMHerSdh0tpakuRB5OHSkCrpA
X-Complaints-To: abuse@giganews.com
```

X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1456
Xref: g2news2.google.com rec.radio.amateur.homebrew:4857

Folks,
I got a nice Agilent E4401B spectrum analyzer for a bargain on Ebay,
only problem being the tightest resolution bandwidth is 1 kHz. Now for
that SA the upgrade to 10 Hz bandwidth is nothing more than typing in a
secret code. Problem is Agilent won't give you the code, the scope being
obsolete.
Anybody know of a third party solution, a hack, or ???
Thanks in advance --
Paul Probert W9PHP

From 2381466709177914405
X-Google-Thread: 241b302a50,dc0f1023a345920a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!goblin3!goblin.stu.neva.ru!nntp-feed.chiark.greenend.org.uk!ewrotcd!news.nosignal.org!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 1448 TTL to rs232 driver problem
Date: Wed, 27 Jul 2011 20:35:40 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 85
Sender: et472@72.0.192.105
Message-ID: <Pine.LNX.4.64.1107272031010.24175@darkstar.example.net>
References: <50ac723a-b303-454e-810d-615bcb6e7631@j15g2000yqf.googlegroups.com>
<fJadnXcrSq4LabLTnZ2dnUVZ_rudnZ2d@bright.net>
<6df78db8-9e11-474f-9652-5401862eb5ec@15g2000vbw.googlegroups.com>
NNTP-Posting-Host: 72.0.192.105
Mime-Version: 1.0
Content-Type: MULTIPART/MIXED; BOUNDARY="8323328-1331539556-1311813340=:24175"
X-Trace: theodyn.ncf.ca 1311813337 29300 72.0.192.105 (28 Jul 2011 00:35:37 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 28 Jul 2011 00:35:37 GMT
In-Reply-To: <6df78db8-9e11-474f-9652-5401862eb5ec@15g2000vbw.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:4858

This message is in MIME format. The first part should be readable text,
while the remaining parts are likely unreadable without MIME-aware tools.

--8323328-1331539556-1311813340=:24175
Content-Type: TEXT/PLAIN; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: QUOTED-PRINTABLE

```
On Wed, 27 Jul 2011, JIMMIE wrote:

> On Jul 27, 7:21=A0am, Scott <acepilotREM...@bloomer.net> wrote:
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>>
>>
>>
>>
>>
>>> 30 year old piece of equipment operating pretty much flawlessly for
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>>> the board that require the +- 15. d BTW cooling the chip makes it
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>>
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>>> Jimmie
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>>
>> N0EDV- Hide quoted text -
>>
>> - Show quoted text -
>
> Thanks Scott, that was my first thought but I am not allowed  to
> modify the board... I was hoping the CMOS version of the old chip may
> work at the elevated voltage level. Im thinking the one that has
> worked all these years was a cherry picked mil spec device, its PN is
> 751448
>
```

So?

It's a line driver, not ttl. It would start with "75" from some=20
manufacturers.

If it's worked all this time, then look at it from a different angle. The=
=20
IC has gone bad in such a fashion that it works at lower voltages.=20
Replace the IC, and likely it will go back to working. The heat issue may=
=20
be that it's bad, not because it's receiving too much voltage.

After thirty years, don't suddenly think the issue is too much voltage.

If the IC was working and doens't now, then I wouldn't trust it even at=20
lower voltages. But if you're fussing over supply voltage, then reveal=20
what else uses the +-15v lines, chances are good they aren't fussy either=
=20
(whereas the voltages to the line driver define the RS-232 levels and=20
someone may have deliberately chosen to go for the maximum RS-232 voltages=
=20
rather than lower voltages that may not be so obviously high and low.

   Michael VE2BVW

--8323328-1331539556-1311813340=:24175--

From -3322480399682794203
X-Google-Thread: 241b302a50,7a09acacb67ee3a7
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-
mail
NNTP-Posting-Date: Thu, 28 Jul 2011 05:57:13 -0500
From: Edward Feustel <efeustel@hughes.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ultimate transmatch
Date: Thu, 28 Jul 2011 06:57:11 -0400
Message-ID: <78f2371cjk29tv5lmsnp8o8jt9ossvpeas@4ax.com>
References: <j0ff62$lu8$1@dont-email.me>
<k4sn27h1kcqkijkqi53hlnu75baucntqbi@4ax.com> <j0hr6j$e74$1@dont-email.me>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 24
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-q0QtkE0p+5n3i9Zrw4rv5kLqXReWVEcGdg1qb94fm7Gr/

```
VVqfOZsJCQeKrqCX5FLkY27rntTQKHyQu5!06+N/
qOQKBJy+GSmaEtL18Ctw+sZSS6k0zfgefCbgfMJKXWNVxYECOOC6fkE1jy9dEpM100=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2033
Xref: g2news2.google.com rec.radio.amateur.homebrew:4859
```

Kenneth,

Is your shack below ground or without windows?
My shack is in the basement. I run 600 ohm open wire
from the Palstar Balanced Tuner (with balun in the input) to
feed thru insulators in a Plexiglas insert in the Window. Then
600 ohm to the doublet using string to the separators to
hold the feedline in a position away from the house.

The Palstar Tuner is similar to your description. It tunes my
210 foot doublet on most frequencies and its L equivalent
circuit is broad enough to make retuning for small frequency
changes unnecessary.

If you use your current balun on the input, an L (unbalanced) looks
like a balanced circuit on the output. Of course you must
insulate your capacitors above ground, ditto the inductor.

The ARRL Guide to Antenna Tuners has an excellent discussion
on balanced vs. unbalanced lines that you might wish to read
as well as balanced vs unbalanced tuners.

73,
Ed, N5EI

```
From 6700432250303300084
X-Google-Thread: a3e752f117,589c2ed3433cec68
X-Google-Attributes: gida3e752f117,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-out.readnews.com!
transit3.readnews.com!s09-10.readnews.com!unm2.readnews.com.POSTED!not-for-mail
X-Trace: DXC=?DWY3NZ9URnT\Yi]F<2UniG^cGF?
V7mId]G0e@Sk_WTbT6RVf`ncYmfg@\4YOPI=PadA:gH<T^WSl1c<e?
Se7[`gkhA;ncITKWf@oIlbm8D:<fJCahZ@^`VFl
X-Complaints-To: abuse@blocknews.net
From: "radio rambo" <radiorambo@nomail.invalid>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <4ihtim.9lo.19.1@news.alt.net>
<4e2c35af$0$25685$a8266bb1@newsreader.readnews.com> <e0561b74-199f-42a8-91cb-
```

b122fcd5f73d@g16g2000yqg.googlegroups.com>
<4e2c6b9d$0$31321$a8266bb1@newsreader.readnews.com> <ca3b4069-d5f6-4ec9-80a2-613f7eed58b9@r18g2000vbs.googlegroups.com>
Subject: Re: KD8CTL GOT FAT
Date: Thu, 28 Jul 2011 11:44:43 -0400
Organization: can ya hear me now?
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6109
X-RFC2646: Format=Flowed; Original
Lines: 6
Message-ID: <4e3184d2$0$9175$a8266bb1@newsreader.readnews.com>
NNTP-Posting-Host: df3167f6.newsreader.readnews.com
Xref: g2news2.google.com rec.radio.amateur.policy:34547 rec.radio.amateur.homebrew:4860 rec.radio.amateur.misc:6664

"kb9rqz" wrote in message

Does he still get kelp from mork?

From 3394195964324005894
X-Google-Thread: a3e752f117,589c2ed3433cec68
X-Google-Attributes: gida3e752f117,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!newshosting.com!news-out.readnews.com!transit3.readnews.com!s09-10.readnews.com!unm2.readnews.com.POSTED!not-for-mail
X-Trace: DXC=]5G_<7`mST<\1kDmZone93G^cGF?V7mI4]G0e@Sk_WT2T6RVf`ncYm6g@\4YOPI=P1dA:gH<T^WS<1c<e?Se7[`7khA;ncITKW6@oIlbm8D:<6JCahZ@^`VF<
X-Complaints-To: abuse@blocknews.net
From: "radio rambo" <radiorambo@nomail.invalid>
Newsgroups: rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <4ihtim.9lo.19.1@news.alt.net>
<4e2c35af$0$25685$a8266bb1@newsreader.readnews.com> <e0561b74-199f-42a8-91cb-b122fcd5f73d@g16g2000yqg.googlegroups.com>
<4e2c6b9d$0$31321$a8266bb1@newsreader.readnews.com> <ca3b4069-d5f6-4ec9-80a2-613f7eed58b9@r18g2000vbs.googlegroups.com>
Subject: Re: KD8CTL GOT FAT
Date: Thu, 28 Jul 2011 11:48:28 -0400
Organization: can ya hear me now?
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6109

```
X-RFC2646: Format=Flowed; Original
Lines: 6
Message-ID: <4e3185b3$0$9254$a8266bb1@newsreader.readnews.com>
NNTP-Posting-Host: df3167f6.newsreader.readnews.com
Xref: g2news2.google.com rec.radio.amateur.policy:34548
rec.radio.amateur.homebrew:4861 rec.radio.amateur.misc:6665
```

"kb9rqz" wrote in message

No kelp?

```
From 4889355764030498250
X-Google-Thread: 241b302a50,7a09acacb67ee3a7
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!weretis.net!
feeder1.news.weretis.net!feeder.erje.net!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ultimate transmatch
Date: Thu, 28 Jul 2011 19:31:53 -0400
Organization: A noiseless patient Spider
Lines: 34
Message-ID: <j0srhb$f67$1@dont-email.me>
References: <j0ff62$lu8$1@dont-email.me>
<k4sn27h1kcqkijkqi53hlnu75baucntqbi@4ax.com> <j0hr6j$e74$1@dont-email.me>
<78f2371cjk29tv5lmsnp8o8jt9ossvpeas@4ax.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 28 Jul 2011 23:31:55 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="ETc/uTCAmhsfXTkMnZdiZw";
     logging-data="15559"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+rMCW8LM+6uVhzivVEvl0b9WAV1/M3H9U="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.18) Gecko/20110617
Thunderbird/3.1.11
In-Reply-To: <78f2371cjk29tv5lmsnp8o8jt9ossvpeas@4ax.com>
Cancel-Lock: sha1:JDAQ4gqn5I0WEESGTDGwSK7Ri0w=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4862
```

On 07/28/2011 06:57 AM, Edward Feustel wrote:
> Kenneth,
>
> Is your shack below ground or without windows?
> My shack is in the basement. I run 600 ohm open wire
> from the Palstar Balanced Tuner (with balun in the input) to
> feed thru insulators in a Plexiglas insert in the Window. Then

> 600 ohm to the doublet using string to the separators to
> hold the feedline in a position away from the house.
>
> The Palstar Tuner is similar to your description. It tunes my
> 210 foot doublet on most frequencies and its L equivalent
> circuit is broad enough to make retuning for small frequency
> changes unnecessary.
>
> If you use your current balun on the input, an L (unbalanced) looks
> like a balanced circuit on the output. Of course you must
> insulate your capacitors above ground, ditto the inductor.
>
> The ARRL Guide to Antenna Tuners has an excellent discussion
> on balanced vs. unbalanced lines that you might wish to read
> as well as balanced vs unbalanced tuners.
>
> 73,
> Ed, N5EI

The only window in my shack faces the front of the house. The window is a a special hurricane resistant shatter proof glass. Also the window is 25 feet behind the location of the operating position in the shack room. Access to the window is not possible, and the XYL won't hear about feedline visible in the front of the house. I have a 2" plastic conduit running from the operating position to the attic crawl space that currently has on run of RG/8U for my vertical, with room for one or two more runs. Running the twinlead next to the coax would probably not be a good idea.

```
From -8327122986572494312
X-Google-Thread: 241b302a50,7a09acacb67ee3a7
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!feeder.news-
service.com!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-
mail
From: highlandham <highlandham.nospam@rfburns.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ultimate transmatch
Date: Fri, 29 Jul 2011 10:14:44 +0100
Organization: A noiseless patient Spider
Lines: 28
Message-ID: <j0ttm5$mp3$1@dont-email.me>
References: <j0ff62$lu8$1@dont-email.me>
<k4sn27h1kcqkijkqi53hlnu75baucntqbi@4ax.com> <j0hr6j$e74$1@dont-email.me>
<78f2371cjk29tv5lmsnp8o8jt9ossvpeas@4ax.com> <j0srhb$f67$1@dont-email.me>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Fri, 29 Jul 2011 09:14:45 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="eLWyMgIHVbz29VHgZD0Jug";
     logging-data="23331"; mail-complaints-to="abuse@eternal-september.org";
```

posting-account="U2FsdGVkX1/OVVWW09qkbPxOzbxuPiV27XMUfU8iVj4="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.18) Gecko/20110617 Thunderbird/3.1.11
In-Reply-To: <j0srhb$f67$1@dont-email.me>
Cancel-Lock: sha1:EGb/q1QsVdKzpcuqXOQAekOGkcA=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4863

Kenneth Scharf ,WA2MZE wrote :

> The only window in my shack faces the front of the house. The window is a a special hurricane resistant shatter proof glass. Also the window is 25 feet behind the location of the operating position in the shack room. Access to the window is not possible, and the XYL won't hear about feedline visible in the front of the house. I have a 2" plastic conduit running from the operating position to the attic crawl space that currently has on run of RG/8U for my vertical, with room for one or two more runs. Running the twinlead next to the coax would probably not be a good idea.

Living in a bungalow ,hence having a ground floor shack ,I run DC cables , 2 coax lines and twin feeder (450 Ohms ,the wide variety) all in the same plastic duct (about 2 metres long) to the loft from where coax is fed to an outside 2m beam and and a discone antenna (the latter used for local 2m FM operations) and the twin feeder to a doublet (all fed through a double cement block wall)
The 12 V DC cables run from solar charged batteries located on the loft.

With all those cables running through the same 2 metres long plastic duct I don't experience any problems with RF operations with the twin feeder.

BTW the plastic duct is a piece of square 65 x 65 mm gutter drain pipe ,widely used here in the UK.

Frank   GM0CSZ / KN6WH

From 5547323522173685303
X-Google-Thread: a3e752f117,589c2ed3433cec68
X-Google-Attributes: gida3e752f117,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!k27g2000yqn.googlegroups.com!not-for-mail
From: kb9rqz <mark@kb9rqz.com>
Newsgroups: rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: get kelp
Date: Fri, 29 Jul 2011 09:27:24 -0700 (PDT)
Organization: http://groups.google.com
Lines: 3
Message-ID: <2ef9909e-e2c8-410f-a7b5-5b277c6355a4@k27g2000yqn.googlegroups.com>
References: <4ihtim.9lo.19.1@news.alt.net>

```
<4e2c35af$0$25685$a8266bb1@newsreader.readnews.com>
 <e0561b74-199f-42a8-91cb-b122fcd5f73d@g16g2000yqg.googlegroups.com>
 <4e2c6b9d$0$31321$a8266bb1@newsreader.readnews.com> <ca3b4069-
d5f6-4ec9-80a2-613f7eed58b9@r18g2000vbs.googlegroups.com>
NNTP-Posting-Host: 66.82.9.59
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1311956844 13980 127.0.0.1 (29 Jul 2011 16:27:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 29 Jul 2011 16:27:24 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k27g2000yqn.googlegroups.com; posting-host=66.82.9.59; posting-
account=3ePh8QoAAABpiNDYEy2_bPCVy_4Crs1n
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLUCHNF
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
 Trident/4.0; .NET CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152;
 .NET CLR 3.5.30729),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.policy:31492
rec.radio.amateur.homebrew:4567 rec.radio.amateur.misc:6418

On Jul 24, 6:16=A0pm, kb9rqz <m...@kb9rqz.com> wrote:
> On Jul 24, 2:55=A0pm, "radio rambo" <radiora...@



From -2816705605910590299
X-Google-Thread: 241b302a50,7a09acacb67ee3a7
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!eternal-september.org!
feeder.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ultimate transmatch
Date: Sat, 30 Jul 2011 10:45:03 -0400
Organization: A noiseless patient Spider
Lines: 45
Message-ID: <j115dg$m54$1@dont-email.me>
References: <j0ff62$lu8$1@dont-email.me>
<k4sn27h1kcqkijkqi53hlnu75baucntqbi@4ax.com> <j0hr6j$e74$1@dont-email.me>
<78f2371cjk29tv5lmsnp8o8jt9ossvpeas@4ax.com> <j0srhb$f67$1@dont-email.me>
<j0ttm5$mp3$1@dont-email.me>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 30 Jul 2011 14:45:04 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="t57z1XtkyrzcfSjeSxCXOQ";
     logging-data="22692"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19K29nvnpVpRG0HqprPXMPq7M9paqjoIsw="
```

User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.18) Gecko/20110617 Thunderbird/3.1.11
In-Reply-To: <j0ttm5$mp3$1@dont-email.me>
Cancel-Lock: sha1:bSX9gTpyHEpE4D3PpxlImx2RtLs=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4568

On 07/29/2011 05:14 AM, highlandham wrote:
> Kenneth Scharf ,WA2MZE wrote :
>
>> The only window in my shack faces the front of the house. The window is
>> a a special hurricane resistant shatter proof glass. Also the window is
>> 25 feet behind the location of the operating position in the shack room.
>> Access to the window is not possible, and the XYL won't hear about
>> feedline visible in the front of the house. I have a 2" plastic conduit
>> running from the operating position to the attic crawl space that
>> currently has on run of RG/8U for my vertical, with room for one or two
>> more runs. Running the twinlead next to the coax would probably not be a
>> good idea.
> ---------------------
> Living in a bungalow ,hence having a ground floor shack ,I run DC cables
> , 2 coax lines and twin feeder (450 Ohms ,the wide variety) all in the
> same plastic duct (about 2 metres long) to the loft from where coax is
> fed to an outside 2m beam and and a discone antenna (the latter used for
> local 2m FM operations) and the twin feeder to a doublet (all fed
> through a double cement block wall)
> The 12 V DC cables run from solar charged batteries located on the loft.
>
> With all those cables running through the same 2 metres long plastic
> duct I don't experience any problems with RF operations with the twin
> feeder.
>
> BTW the plastic duct is a piece of square 65 x 65 mm gutter drain pipe
> ,widely used here in the UK.
>
> Frank GM0CSZ / KN6WH

The two inch plastic conduit runs from the shack up through a wall into
the ceiling and into the attic. The overall length must be about 15-20
feet. There would be another 20 feet through the attic to reach the
vent turbine and the roof. The twinlead if it ran though the pipe and
the attic would probably twist many times. It might work, but it goes
against all 'textbook' logic.

In any event, I'm thinking of building the transmatch as a 'T' network
using the two 500pf 2kv variable caps and the roller coil. I will
insulate the bottom end of the roller coil from ground to leave the
option open of running the T match with a balum on the input side, but I
intend to try the coax choke on the far end of an unbalanced feed first.

As for the T match, it seems to be the sole surviver among transmatch
circuits. Both the 'ultimate' and the 'spc' are simply alternate forms
of the 'T' match that do not have any benefits.

```
From 4042820413364004052
X-Google-Thread: 241b302a50,246eeaae2511a0ce,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m3g2000pre.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT 2 HOT SEXY BEST VIDEOS PHOTOS TOOOO U
Date: Sun, 31 Jul 2011 01:05:02 -0700 (PDT)
Organization: http://groups.google.com
Lines: 59
Message-ID: <53473d89-4e03-444c-a3b1-a53345351536@m3g2000pre.googlegroups.com>
NNTP-Posting-Host: 117.199.244.124
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1312099838 14862 127.0.0.1 (31 Jul 2011 08:10:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 31 Jul 2011 08:10:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m3g2000pre.googlegroups.com; posting-host=117.199.244.124;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.18)
 Gecko/20110614 Firefox/3.6.18,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4569


ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html




         hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

                     HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
```

```
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html






      ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
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hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-
questions.html
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http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-
questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html








From 8537155158973304997
X-Google-Thread: 241b302a50,c72b954ef829ab1c,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m5g2000prh.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SUPER HOT VIDEOS N BULK SEXY PHOTOS
Date: Sun, 31 Jul 2011 17:29:59 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
```

```
Message-ID: <1f745232-0c9f-4b0a-b6ca-b78d801740c6@m5g2000prh.googlegroups.com>
NNTP-Posting-Host: 117.199.241.194
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1312158600 28193 127.0.0.1 (1 Aug 2011 00:30:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 1 Aug 2011 00:30:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m5g2000prh.googlegroups.com; posting-host=117.199.241.194;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.18)
 Gecko/20110614 Firefox/3.6.18,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4570


      A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.com/



             ALL HOT PHOTOS SUPER SeXY PHOTOS

http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

               ALL  JOBS   SITES FREE SEE

http://jobstwo.blogspot.com/




HOT VIDEOS

http://hotvideotoou.blogspot.com/2011/01/kiss-videos.html




hot lip kiss
http://hotvidos.blogspot.com/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.com/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.com/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.com/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.com/2010/07/tamil-hot-videos.html


From 6192336606495048015
X-Google-Thread: a4a23d5f63,6676acf0c085a8e7,start
```

X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-out.readnews.com!
news-xxxfer.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1309500001@panix.com>
Followup-To: poster
Date: 1 Aug 2011 02:00:03 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Sep 2011 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1312178401@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1312178404 17369 166.84.1.2 (1 Aug 2011 06:00:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 1 Aug 2011 06:00:04 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Xref: g2news1.google.com rec.radio.amateur.antenna:22172 rec.radio.amateur.dx:1053
rec.radio.amateur.equipment:2648 rec.radio.amateur.homebrew:4571
rec.radio.amateur.misc:6424 rec.radio.amateur.policy:31529
rec.radio.amateur.space:531 rec.radio.info:2549

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From -7137799873105753372
X-Google-Thread: 241b302a50,78ca5499263c43a6,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!f17g2000prf.googlegroups.com!not-for-
mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SOUTH ACTRESS HOT PHOTOS
Date: Tue, 2 Aug 2011 12:03:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 25
Message-ID: <ff9a70f2-d1aa-4047-8b01-4fb2c27d725b@f17g2000prf.googlegroups.com>
NNTP-Posting-Host: 117.199.243.141
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1312311801 1192 127.0.0.1 (2 Aug 2011 19:03:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 2 Aug 2011 19:03:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f17g2000prf.googlegroups.com; posting-host=117.199.243.141;
```

```
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:5.0) Gecko/20100101 Firefox/
5.0,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4572

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                           KAJAL LATEST ROMANTIC STILLS
http://southactresstou.blogspot.com/2011/07/kajal-agarwal-in-naperu-shiva.html
                   TAMANNA HOT SEXY PHOTOS & VIDEOS
http://southactresstou.blogspot.com/2011/07/tamanna-wallpapers.html
                     PRANITHA LATEST BEAUTIFUL PHOTOS
http://southactresstou.blogspot.com/2011/06/about-pranitha-praneetha-is-
beautiful.html
                      KAJAL AGARWAL HOT SEXY PHOTOS
http://southactresstou.blogspot.com/2011/05/kajal-agarwal.html
                    KATRINA KAIF IN BEAUTIFUL RED DRESS
http://southactresstou.blogspot.com/2011/05/katrina-kaif_22.html

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                PRIYAMANI SPICY PHOTOS IN COW GIRL
http://allyouwants.blogspot.com/2011/02/priyamani-spicy-photo-shoot-cow-girl.html
                   KAJAL HOT PHOTOS IN SAREE
http://allyouwants.blogspot.com/2011/06/kajal-very-spice-pics.html



From -8405934529581218416
X-Google-Thread: 241b302a50,17c86964f8005296,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!a2g2000prf.googlegroups.com!not-for-
mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT ACTRESS
Date: Wed, 3 Aug 2011 07:06:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 25
Message-ID: <5f858bbe-2d6e-407f-b831-492476676ac2@a2g2000prf.googlegroups.com>
NNTP-Posting-Host: 117.213.131.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
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X-Trace: posting.google.com 1312380823 23317 127.0.0.1 (3 Aug 2011 14:13:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 3 Aug 2011 14:13:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a2g2000prf.googlegroups.com; posting-host=117.213.131.120;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:5.0) Gecko/20100101 Firefox/
5.0,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4573

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                   TAMANNA HOT SEXY PHOTOS & VIDEOS
http://southactresstou.blogspot.com/2011/07/tamanna-wallpapers.html
                     PRANITHA LATEST BEAUTIFUL PHOTOS
http://southactresstou.blogspot.com/2011/06/about-pranitha-praneetha-is-
beautiful.html
                      KAJAL AGARWAL HOT SEXY PHOTOS
http://southactresstou.blogspot.com/2011/05/kajal-agarwal.html
                    KATRINA KAIF IN BEAUTIFUL RED DRESS
http://southactresstou.blogspot.com/2011/05/katrina-kaif_22.html

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http://allyouwants.blogspot.com/2011/02/priyamani-spicy-photo-shoot-cow-girl.html
                   KAJAL HOT PHOTOS IN SAREE
http://allyouwants.blogspot.com/2011/06/kajal-very-spice-pics.html



From 8707449805253877847
X-Google-Thread: 241b302a50,ad094ff7af71b4f1,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q29g2000prj.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT SEXY VIDEOS PHOTOS TO TEENAGERS
Date: Wed, 3 Aug 2011 17:37:50 -0700 (PDT)
Organization: http://groups.google.com
```

```
Lines: 32
Message-ID: <bf3f89ba-8e98-4866-a527-04a6ed771d1f@q29g2000prj.googlegroups.com>
NNTP-Posting-Host: 117.199.243.20
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1312418350 15529 127.0.0.1 (4 Aug 2011 00:39:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 4 Aug 2011 00:39:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q29g2000prj.googlegroups.com; posting-host=117.199.243.20;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.18)
 Gecko/20110614 Firefox/3.6.18,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4574


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             ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

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http://hotvideotoou.blogspot.com/2011/01/kiss-videos.html




hot lip kiss
http://hotvidos.blogspot.com/2010/07/hot-lip-kiss.html
hot kisses
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hollywood hot videos
http://hotvidos.blogspot.com/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.com/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.com/2010/07/tamil-hot-videos.html


From 6427935275362033291
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X-Google-Thread: 241b302a50,16966ee5e957aefe,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!u6g2000prc.googlegroups.com!not-for-mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ADULT HOT PICS
Date: Thu, 4 Aug 2011 07:01:06 -0700 (PDT)
Organization: http://groups.google.com
Lines: 25
Message-ID: <2bbe0f07-2806-42c5-80a9-33d13d25c9dd@u6g2000prc.googlegroups.com>
NNTP-Posting-Host: 117.199.241.128
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1312466466 19851 127.0.0.1 (4 Aug 2011 14:01:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 4 Aug 2011 14:01:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u6g2000prc.googlegroups.com; posting-host=117.199.241.128; posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.19)
 Gecko/20110707 Firefox/3.6.19,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4575

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http://allyouwants.blogspot.com/2011/06/kajal-very-spice-pics.html

```
From 2878482015263118991
X-Google-Thread: 241b302a50,78ca5499263c43a6,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g5g2000prn.googlegroups.com!not-for-mail
From: tejaswini <teju9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SOUTH ACTRESS HOT PHOTOS
Date: Thu, 4 Aug 2011 10:34:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 29
Message-ID: <70d8aa77-91d5-4299-8049-994125f1cd10@g5g2000prn.googlegroups.com>
NNTP-Posting-Host: 117.199.243.200
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1312479350 21112 127.0.0.1 (4 Aug 2011 17:35:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 4 Aug 2011 17:35:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g5g2000prn.googlegroups.com; posting-host=117.199.243.200;
posting-account=6xaZwQoAAACqKFwd8FfwWgPIkcC-Icg-
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.19)
 Gecko/20110707 Firefox/3.6.19,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4576
```

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PRANITHA LATEST BEAUTIFUL PHOTOS
http://southactresstou.blogspot.com/2011/06/about-pranitha-praneetha-is-beautiful.html
KAJAL AGARWAL HOT SEXY PHOTOS
http://southactresstou.blogspot.com/2011/05/kajal-agarwal.html
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KAJAL HOT PHOTOS IN SAREE
http://allyouwants.blogspot.com/2011/06/kajal-very-spice-pics.html
MAHESH BABU WORKING STILLS IN DHOOKUDU
http://princemaheshfanz.blogspot.com/2011/08/dookudu-working-stills.html
NAMRATHA IN NATIONAL BREAST FEEDING
http://princemaheshfanz.blogspot.com/2011/08/namrata-shirodkar-at-national-breast.html

```
From -8658097167666786514
X-Google-Thread: 241b302a50,dc0f1023a345920a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!b19g2000yqa.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 1448 TTL to rs232 driver problem
Date: Thu, 4 Aug 2011 15:14:29 -0700 (PDT)
Organization: http://groups.google.com
Lines: 87
Message-ID: <df0ae02e-aa40-40e7-91fb-b0ac456e823a@b19g2000yqa.googlegroups.com>
References: <50ac723a-b303-454e-810d-615bcb6e7631@j15g2000yqf.googlegroups.com>
 <fJadnXcrSq4LabLTnZ2dnUVZ_rudnZ2d@bright.net>
<6df78db8-9e11-474f-9652-5401862eb5ec@15g2000vbw.googlegroups.com>
 <Pine.LNX.4.64.1107272031010.24175@darkstar.example.net>
NNTP-Posting-Host: 155.178.6.19
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1312496154 28558 127.0.0.1 (4 Aug 2011 22:15:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 4 Aug 2011 22:15:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b19g2000yqa.googlegroups.com; posting-host=155.178.6.19; posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLUHCNK
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
 Trident/4.0; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4577
```

On Jul 27, 8:35=A0pm, Michael Black <et...@ncf.ca> wrote:
> On Wed, 27 Jul 2011, JIMMIE wrote:
> > On Jul 27, 7:21=A0am, Scott <acepilotREM...@bloomer.net> wrote:
> >> On 7-26-2011 20:34, JIMMIE wrote:

```
>
> >>> 30 year old piece of equipment operating pretty much flawlessly for
> >>> that entire period. VCC and VEE on the 1448 is +/- 15 volts and the
> >>> chip is overheating..... even with inputs and outputs disconnected th=
e
> >>> chip still overheats(130 F). I noticed that the manufacturer's sets
> >>> the MAX =A0power supply voltages at +/- 15 and understand this was
> >>> probably designed on the hairy edge of failure but like I said its
> >>> been working for 30 years and replacement chips work no better, what
> >>> gives. Power supply can not be adjusted and there are other chips on
> >>> the board that require the +- 15. d BTW cooling the chip makes it
> >>> work. operating the chip from an external +- 12V power supply makes i=
t
> >>> work but modifying the circuit may not be an option. I saw where ther=
e
> >>> are some CMOS versions of the 1488, I was wondering if they would
> >>> handle the +- 15 volts better.
>
> >>> TIA
> >>> Jimmie
>
> >> Can you cut the circuit trace of the voltages (Vcc, Vee) feeding the I=
C
> >> and strap in a pair of diodes (in series) such as IN914 types in each
> >> supply line? =A0Each diode drops about .7V, so you would end up with a=
bout
> >> +/- 13.5V at the IC. =A0If you want even lower voltage at the IC, add =
in
> >> another diode or two in each supply line. =A0Ensure proper polarity...=
in
> >> the Vcc supply lines, the diode cathodes would go toward the IC and th=
e
> >> Vee diodes would have the anodes toward the IC. =A0Just a thought. =A0=
Or, if
> >> you know how much current the device draws through each supply (Vcc an=
d
> >> Vee), you could place a single zener diode in series with the supply
> >> voltages to the IC and the polarities would be opposite of using 1N914
> >> diodes. =A0Just find a zener of about 2.5-3V that is rated at about tw=
ice
> >> the current the IC draws from each supply.
>
> >> N0EDV- Hide quoted text -
>
> >> - Show quoted text -
>
> > Thanks Scott, that was my first thought but I am not allowed =A0to
> > modify the board... I was hoping the CMOS version of the old chip may
> > work at the elevated voltage level. Im thinking the one that has
> > worked all these years was a cherry picked mil spec device, its PN is
> > 751448
>
> So?
```

```
>
> It's a line driver, not ttl. =A0It would start with "75" from some
> manufacturers.
>
> If it's worked all this time, then look at it from a different angle. =A0=
The
> IC has gone bad in such a fashion that it works at lower voltages.
> Replace the IC, and likely it will go back to working. =A0The heat issue =
may
> be that it's bad, not because it's receiving too much voltage.
>
> After thirty years, don't suddenly think the issue is too much voltage.
>
> If the IC was working and doens't now, then I wouldn't trust it even at
> lower voltages. =A0But if you're fussing over supply voltage, then reveal
> what else uses the +-15v lines, chances are good they aren't fussy either
> (whereas the voltages to the line driver define the RS-232 levels and
> someone may have deliberately chosen to go for the maximum RS-232 voltage=
s
> rather than lower voltages that may not be so obviously high and low.
>
> =A0 =A0Michael VE2BVW- Hide quoted text -
>
> - Show quoted text -

But the new chips behave the same as the old, I got it working by
mounting a cooling fan over it.


Jimmie



From 4932761556862091859
X-Google-Thread: 241b302a50,4e180f49f24a9828
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!y8g2000vba.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: obsolete Agilent SA - how to upgrade?
Date: Thu, 4 Aug 2011 15:18:32 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <cf7ddd78-b8a1-43c0-afd8-68d640d4d950@y8g2000vba.googlegroups.com>
References: <oil6g8-7n2.ln1@giganews.com>
NNTP-Posting-Host: 155.178.6.19
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1312497172 6662 127.0.0.1 (4 Aug 2011 22:32:52 GMT)
X-Complaints-To: groups-abuse@google.com
```

```
NNTP-Posting-Date: Thu, 4 Aug 2011 22:32:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y8g2000vba.googlegroups.com; posting-host=155.178.6.19; posting-
account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLUHCNK
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
 Trident/4.0; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4578

On Jul 27, 8:03=A0pm, Paul Probert <paulprob...@sbcglobal.net> wrote:
> Folks,
> =A0 =A0I got a nice Agilent E4401B spectrum analyzer for a bargain on Eba=
y,
> only problem being the tightest resolution bandwidth is 1 kHz. Now for
> that SA the upgrade to 10 Hz bandwidth is nothing more than typing in a
> secret code. Problem is Agilent won't give you the code, the scope being
> obsolete.
> =A0 =A0Anybody know of a third party solution, a hack, or ???
> Thanks in advance --
> Paul Probert W9PHP

I came across a list of mods like this for Agilent equipment on the
internet. Dont know where I saw them but at least this will let you
know they are out their. Happy Hunting.

Jimmie



From -2678478181426769824
X-Google-Thread: 241b302a50,14b6d2adebd86f4a,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!r11g2000prd.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT HOT SEXY VIDEOS 150 SUPER PHOTOS
Date: Thu, 4 Aug 2011 17:30:33 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <de8a0647-a6a1-466b-ba03-20c108a466d6@r11g2000prd.googlegroups.com>
NNTP-Posting-Host: 117.199.240.145
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1312504233 13628 127.0.0.1 (5 Aug 2011 00:30:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 5 Aug 2011 00:30:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r11g2000prd.googlegroups.com; posting-host=117.199.240.145;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
```

```
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.18)
 Gecko/20110614 Firefox/3.6.18,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4579


      A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.com/


             ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

               ALL  JOBS   SITES FREE SEE

http://jobstwo.blogspot.com/




HOT VIDEOS

http://hotvideotoou.blogspot.com/2011/01/kiss-videos.html




hot lip kiss
http://hotvidos.blogspot.com/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.com/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.com/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.com/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.com/2010/07/tamil-hot-videos.html


From -5172686830704177783
X-Google-Thread: 241b302a50,ab98bdbb8c3aea4b,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g39g2000pro.googlegroups.com!not-for-
mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ADULT HOT PICS
Date: Sat, 6 Aug 2011 09:23:40 -0700 (PDT)
Organization: http://groups.google.com
```

```
Lines: 25
Message-ID: <8de3d65e-1c93-41c5-95ed-1548538f8170@g39g2000pro.googlegroups.com>
NNTP-Posting-Host: 117.199.247.9
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1312647820 16856 127.0.0.1 (6 Aug 2011 16:23:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 6 Aug 2011 16:23:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g39g2000pro.googlegroups.com; posting-host=117.199.247.9; posting-
account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.19)
 Gecko/20110707 Firefox/3.6.19,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4580

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                http://goodjobssites.blogspot.com/

                               FOR HOT PHOTO&VIDEOS

                            KATRINA KAIF RARE PHOTOS
http://southactresstou.blogspot.com/2011/07/katrina-kaif-wallpapers.html
                           KAJAL LATEST ROMANTIC STILLS
http://southactresstou.blogspot.com/2011/07/kajal-agarwal-in-naperu-shiva.html
                   TAMANNA HOT SEXY PHOTOS & VIDEOS
http://southactresstou.blogspot.com/2011/07/tamanna-wallpapers.html
                     PRANITHA LATEST BEAUTIFUL PHOTOS
http://southactresstou.blogspot.com/2011/06/about-pranitha-praneetha-is-
beautiful.html
                      KAJAL AGARWAL HOT SEXY PHOTOS
http://southactresstou.blogspot.com/2011/05/kajal-agarwal.html
                    KATRINA KAIF IN BEAUTIFUL RED DRESS
http://southactresstou.blogspot.com/2011/05/katrina-kaif_22.html

               FOR FAST UPDATES IN TELUGU FILM INDUSTRY

                PRIYAMANI SPICY PHOTOS IN COW GIRL
http://allyouwants.blogspot.com/2011/02/priyamani-spicy-photo-shoot-cow-girl.html
                   KAJAL HOT PHOTOS IN SAREE
http://allyouwants.blogspot.com/2011/06/kajal-very-spice-pics.html




From -7119367602364007895
X-Google-Thread: 241b302a50,4262317362b0d63a,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d7g2000vbv.googlegroups.com!not-for-
mail
```

From: Michael <google@shadowstorm.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: What is the difference between class AB1 and AB2 in an amplifier?
Date: Sat, 6 Aug 2011 13:44:29 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <5a525cbb-432a-4aa4-a55c-cc0c558010f6@d7g2000vbv.googlegroups.com>
NNTP-Posting-Host: 98.124.108.37
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1312663469 13340 127.0.0.1 (6 Aug 2011 20:44:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 6 Aug 2011 20:44:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d7g2000vbv.googlegroups.com; posting-host=98.124.108.37; posting-account=hIccaAoAAAAHJdWvuzHwqmpAxeZT9o96
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.0; en-US; rv:1.9.2.18) Gecko/20110614 Firefox/3.6.18 (.NET CLR 3.5.30729; .NET4.0C),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4581

In tube and transistor and tube amplifiers I am familiar with the definition of a class A, class B, and class C amplifiers. Until recently I had assumed class AB1 and AB2 must be somewhere in between class A and class B, however after reading some post in other news groups I'm beginning to suspect my understanding of class AB1 and AB2 may not be accurate or complete. So what is the accurate definition of a class AB1 and a class AB2 amplifier?

Thank you,

Michael Rawls
KS4HY

From 1414711314871385932
X-Google-Thread: 241b302a50,4262317362b0d63a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: What is the difference between class AB1 and AB2 in an amplifier?
Date: Sat, 06 Aug 2011 19:53:18 -0400
Organization: A noiseless patient Spider
Lines: 56
Message-ID: <j1kk5i$24v$1@dont-email.me>

```
References: <5a525cbb-432a-4aa4-a55c-cc0c558010f6@d7g2000vbv.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 6 Aug 2011 23:53:22 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="VM9Lg04SW5rEnAGqnj9sag";
     logging-data="2207"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+l4KayNnpOwdUGHn9JzVt879H6if6pgmQ="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.18) Gecko/20110617
Thunderbird/3.1.11
In-Reply-To: <5a525cbb-432a-4aa4-a55c-cc0c558010f6@d7g2000vbv.googlegroups.com>
Cancel-Lock: sha1:toF3BzxyS7BiBC7xTOlOp1mEi9E=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4583
```

On 08/06/2011 04:44 PM, Michael wrote:

> In tube and transistor and tube amplifiers I am familiar with the definition of a class A, class B, and class C amplifiers. Until recently I had assumed class AB1 and AB2 must be somewhere in between class A and class B, however after reading some post in other news groups I'm beginning to suspect my understanding of class AB1 and AB2 may not be accurate or complete. So what is the accurate definition of a class AB1 and a class AB2 amplifier?
>
> Thank you,
>
> Michael Rawls
> KS4HY

Technically all class "B" amplifiers are really class AB. A class B amplifier has a conduction angle of 180 degrees. A class AB amplifier has a conduction angle of between 360 degrees and 180 degrees. You can't run the amp at EXACTLY 180 degrees because tubes (and transistors) are not perfect devices and will distort (go non-linear) in the fuzzy region just before cutoff. Therefor the devices must be biased to draw some resting current to make sure that at least ONE of the two devices in a push-pull circuit are running in the linear region at all times.

With tubes (valves) the amount of bias required is a function of the Mu (gain) of the device (at least for triodes). Tetrode and beampower tubes are always biased so the device will draw enough resting current to avoid crossover distortion. Low Mu triodes are biased in the same manor as tetrodes (but will require MUCH higher bias). High Mu triodes (or triode connected tetrodes) will not draw very much current at zero bias. These tubes are run in what is called class B. Since the tubes are run at zero bias they require driving power over 180 degress of the conduction angle, which meets the definition of class B.

Most tetrodes do not have enough gain in their screen grids so that the tube can be driven to full output in class AB1. The 6L6 for example when biased at about -35 volts with 300 volts on g2 and a plate voltage of 400-500 volts will not be driven to it's maximum current of 110ma (per plate) without driving the grids positive. In fact the difference between class AB1 and AB2 for the 6L6 is ONLY the driving voltage. The g2 and bias voltages are the SAME for class AB1 and AB2, only the g-g peak signal voltage is different. The type 6146 tube has enough gain in the screen grid that the difference between AB1 and AB2 max ratings is very small, in AB1 it delivers a max of 120w RMS output (max ICAS) while it can go to about 132w in AB2. The 807 tube (same curves as the 6L6) maxes out at 90W in AB1 and 120W in AB2 (ICAS ratings).

With solid state devices the terms AB1 and AB2 have no meaning since the device will only conduct with the control element biased in the forward direction (bipolar transistors and enhancement mode mosfets). A power JFET could, in theory operate in class AB2, but there are very few examples of power JFET's in production (ditto for depletion mode mosfets). So we only use AB with no modifier.

From 8233428632428870950
X-Google-Thread: a4a23d5f63,b37ef3dad2df5d6e,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1310018700@panix.com>
Followup-To: poster
Date: 7 Aug 2011 02:05:00 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Sep 2011 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1312697100@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1312697102 23802 166.84.1.2 (7 Aug 2011 06:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 7 Aug 2011 06:05:02 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:22248 rec.radio.amateur.dx:1061
rec.radio.amateur.equipment:2649 rec.radio.amateur.homebrew:4584
rec.radio.amateur.misc:6448 rec.radio.amateur.policy:31586 rec.radio.info:2565

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment

Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |
rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

From 6304196877401369962
X-Google-Thread: 241b302a50,6856370fe8c2282a,start

X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g39g2000pro.googlegroups.com!not-for-mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT ACTRESS
Date: Sun, 7 Aug 2011 03:52:10 -0700 (PDT)
Organization: http://groups.google.com
Lines: 25
Message-ID: <e2e32681-5a71-4d52-8f74-4ddaee5fc83e@g39g2000pro.googlegroups.com>
NNTP-Posting-Host: 117.199.250.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1312714331 12453 127.0.0.1 (7 Aug 2011 10:52:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 7 Aug 2011 10:52:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g39g2000pro.googlegroups.com; posting-host=117.199.250.4; posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.19)
 Gecko/20110707 Firefox/3.6.19,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4585

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KATRINA KAIF RARE PHOTOS
http://southactresstou.blogspot.com/2011/07/katrina-kaif-wallpapers.html
KAJAL LATEST ROMANTIC STILLS
http://southactresstou.blogspot.com/2011/07/kajal-agarwal-in-naperu-shiva.html
TAMANNA HOT SEXY PHOTOS & VIDEOS
http://southactresstou.blogspot.com/2011/07/tamanna-wallpapers.html
PRANITHA LATEST BEAUTIFUL PHOTOS
http://southactresstou.blogspot.com/2011/06/about-pranitha-praneetha-is-beautiful.html
KAJAL AGARWAL HOT SEXY PHOTOS
http://southactresstou.blogspot.com/2011/05/kajal-agarwal.html
KATRINA KAIF IN BEAUTIFUL RED DRESS
http://southactresstou.blogspot.com/2011/05/katrina-kaif_22.html

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PRIYAMANI SPICY PHOTOS IN COW GIRL
http://allyouwants.blogspot.com/2011/02/priyamani-spicy-photo-shoot-cow-girl.html
KAJAL HOT PHOTOS IN SAREE
http://allyouwants.blogspot.com/2011/06/kajal-very-spice-pics.html

```
From 5832227408899736199
X-Google-Thread: fc2a5,3106bb3972475014,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!1g2000vbu.googlegroups.com!not-for-mail
From: OldGold <sharknews@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: Vintage tube microphone preamplifier 1960s Audio Arts
Date: Sun, 7 Aug 2011 09:53:32 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <c2cf5f88-1b5e-49a0-b4e5-c5c61fe4ac1c@1g2000vbu.googlegroups.com>
NNTP-Posting-Host: 108.77.90.52
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1312736013 5890 127.0.0.1 (7 Aug 2011 16:53:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 7 Aug 2011 16:53:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 1g2000vbu.googlegroups.com; posting-host=108.77.90.52; posting-account=bvZ6XAoAAABDLRlxSGtgOEK_w6vrKc66
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:5.0.1) Gecko/20100101 Firefox/5.0.1,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4883
```

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=250867969176

Vintage tube Microphone / Phono preamplifier built by Audio Arts.

A boutique piece of gear from days gone by. Probably could be modded
to work with modern equipment. A great project for the enthusiast.

The unit is clean and powers up nicely.... no further testing was
performed at this time.

Follow the link for photos and full description....

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=250867969176

```
From 7819251371064283784
X-Google-Thread: fc2a5,dc0f1023a345920a
```

X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!goblin3!goblin.stu.neva.ru!news.tu-darmstadt.de!news.internetdienste.de!feeder.erje.net!newsfeed.xs4all.nl!newsfeed6.news.xs4all.nl!xs4all!post.news.xs4all.nl!not-for-mail
From: Geert Jan de Groot
Subject: Re: 1448 TTL to rs232 driver problem
Organization: YMBK
References: <50ac723a-b303-454e-810d-615bcb6e7631@j15g2000yqf.googlegroups.com>
Newsgroups: rec.radio.amateur.homebrew
Summary:
Date: 09 Aug 2011 12:47:44 GMT
Lines: 17
Message-ID: <4e412c70$0$23973$e4fe514c@news.xs4all.nl>
NNTP-Posting-Host: 2001:888:10dc:192:192:92:108:17
X-Trace: 1312894064 news.xs4all.nl 23973 [2001:888:10dc:192:192:92:108:17]:61641
X-Complaints-To: abuse@xs4all.nl
Xref: g2news2.google.com rec.radio.amateur.homebrew:4884

I suspect you unintentionally shorted one output. While these are
short-protected, they do run hot when this happens.

Check the output volgate on the outputs: pin 3, 6, 8, 11 (this is from heart,
pls verify). If it is either +15 or -15 you're OK, if it is
significantly different you found your root cause.
Pls also check voltages with the chip removed (socketed?).

Typical cause for this is an incorrect serial cable and/or broken serial
connecter (bent pins?), or bad internal connector (flatcable incorrect).
The art to make correct serial cross cables has been largely lost in
30 years and I suspect that's your cause.

73,

Geert Jan PE1HZG

From -3407198602811836637
X-Google-Thread: fc2a5,657a23119f76c3df,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i8g2000pro.googlegroups.com!not-for-mail
From: tejaswini <teju9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT ACTRESS PHOTOS AND VIDEOS
Date: Tue, 9 Aug 2011 07:16:07 -0700 (PDT)
Organization: http://groups.google.com
Lines: 25
Message-ID: <edf6ee48-aea3-43b8-869b-ebc1a3c389f1@i8g2000pro.googlegroups.com>

```
NNTP-Posting-Host: 117.199.246.186
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1312899367 12046 127.0.0.1 (9 Aug 2011 14:16:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 9 Aug 2011 14:16:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i8g2000pro.googlegroups.com; posting-host=117.199.246.186;
posting-account=6xaZwQoAAACqKFwd8FfwWgPIkcC-Icg-
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.19)
 Gecko/20110707 Firefox/3.6.19,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4885


   LATEST HOT TAPSEE KISSING STILLS
http://southactresstou.blogspot.com/2011/06/tapsee.html
  KAJAL AGARWAL ROMANTIC STILLS
http://southactresstou.blogspot.com/2011/05/kajal-agarwal.html
 TAMANNA BEAUTIFUL PHOTOS
http://southactresstou.blogspot.com/2011/05/tamanna.html
ANUSHKA SHETTY HOT SAREE STILLS
http://southactresstou.blogspot.com/2011/06/anushka-shetty.html
SNEHA RARE PHOTOS
http://southactresstou.blogspot.com/2011/05/sneha.html
 NAMITHA HOT NAVEL SHOW
http://southactresstou.blogspot.com/2011/05/namitha.html
ILIYANA HOT WALLPAPERS
http://southactresstou.blogspot.com/2011/05/iliyana.html
PRIYAMANI LATEST SPICY PHOTOS
http://southactresstou.blogspot.com/2011/05/priyamani.html

  FOR FAST UPDATES IN TELUGU FILM INDUSTRY

                PRIYAMANI SPICY PHOTOS IN COW GIRL
http://allyouwants.blogspot.com/2011/02/priyamani-spicy-photo-shoot-cow-girl.html
                   KAJAL HOT PHOTOS IN SAREE
http://allyouwants.blogspot.com/2011/06/kajal-very-spice-pics.html




From -7687713702370202008
X-Google-Thread: fc2a5,657a23119f76c3df
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j9g2000prj.googlegroups.com!not-for-
mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT ACTRESS PHOTOS AND VIDEOS
```

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Date: Tue, 9 Aug 2011 17:19:56 -0700 (PDT)
Organization: http://groups.google.com
Lines: 25
Message-ID: <e0456c95-dbdb-4911-96fa-0b500569edc9@j9g2000prj.googlegroups.com>
NNTP-Posting-Host: 117.199.243.60
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1312935597 22705 127.0.0.1 (10 Aug 2011 00:19:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 10 Aug 2011 00:19:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j9g2000prj.googlegroups.com; posting-host=117.199.243.60; posting-
account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.19)
 Gecko/20110707 Firefox/3.6.19,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4886

                  FOR GOOD JOBS SITES TO YOU
                http://goodjobssites.blogspot.com/

                               FOR HOT PHOTO&VIDEOS

                            KATRINA KAIF RARE PHOTOS
http://southactresstou.blogspot.com/2011/07/katrina-kaif-wallpapers.html
                           KAJAL LATEST ROMANTIC STILLS
http://southactresstou.blogspot.com/2011/07/kajal-agarwal-in-naperu-shiva.html
                   TAMANNA HOT SEXY PHOTOS & VIDEOS
http://southactresstou.blogspot.com/2011/07/tamanna-wallpapers.html
                     PRANITHA LATEST BEAUTIFUL PHOTOS
http://southactresstou.blogspot.com/2011/06/about-pranitha-praneetha-is-
beautiful.html
                      KAJAL AGARWAL HOT SEXY PHOTOS
http://southactresstou.blogspot.com/2011/05/kajal-agarwal.html
                    KATRINA KAIF IN BEAUTIFUL RED DRESS
http://southactresstou.blogspot.com/2011/05/katrina-kaif_22.html

               FOR FAST UPDATES IN TELUGU FILM INDUSTRY

                PRIYAMANI SPICY PHOTOS IN COW GIRL
http://allyouwants.blogspot.com/2011/02/priyamani-spicy-photo-shoot-cow-girl.html
                   KAJAL HOT PHOTOS IN SAREE
http://allyouwants.blogspot.com/2011/06/kajal-very-spice-pics.html



From -5856029881814907480
X-Google-Thread: fc2a5,4262317362b0d63a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
```

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Path: g2news2.google.com!postnews.google.com!a10g2000yqn.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: What is the difference between class AB1 and AB2 in an amplifier?
Date: Wed, 10 Aug 2011 06:45:58 -0700 (PDT)
Organization: http://groups.google.com
Lines: 20
Message-ID: <2c50b757-b84c-4c05-80b7-911fe5d33b4d@a10g2000yqn.googlegroups.com>
References: <5a525cbb-432a-4aa4-a55c-cc0c558010f6@d7g2000vbv.googlegroups.com>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1312983958 32085 127.0.0.1 (10 Aug 2011 13:45:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 10 Aug 2011 13:45:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a10g2000yqn.googlegroups.com; posting-host=99.65.160.151; posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:5.0) Gecko/20110706
 Firefox/5.0 SeaMonkey/2.2,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4887

Hey OT
lucky you I'm still trying to figure out class H amplifier.
73 OM
de N8ZU



On Aug 6, 4:44=A0pm, Michael <goo...@shadowstorm.com> wrote:
> =A0In tube and transistor and tube amplifiers I am familiar with the
> definition of a class A, class B, and class C amplifiers. =A0Until
> recently I had assumed class AB1 and AB2 must be somewhere in between
> class A and class B, however after reading some post in other news
> groups I'm beginning to suspect my understanding of class AB1 and AB2
> may not be accurate or complete. So what is the accurate definition of
> a class AB1 and a class AB2 amplifier?
>
> Thank you,
>
> Michael Rawls
> KS4HY




From 3262807206806583168
X-Google-Thread: fc2a5,7a09acacb67ee3a7
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
```

```
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!e7g2000vbw.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ultimate transmatch
Date: Wed, 10 Aug 2011 08:45:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 64
Message-ID: <e02557bd-ec1c-40fe-aa81-5566b5833020@e7g2000vbw.googlegroups.com>
References: <j0ff62$lu8$1@dont-email.me>
<k4sn27h1kcqkijkqi53hlnu75baucntqbi@4ax.com>
 <j0hr6j$e74$1@dont-email.me>
NNTP-Posting-Host: 170.121.14.11
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1312991471 12664 127.0.0.1 (10 Aug 2011 15:51:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 10 Aug 2011 15:51:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e7g2000vbw.googlegroups.com; posting-host=170.121.14.11; posting-
account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HNKRUAELSC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1) AppleWebKit/535.1 (KHTML, like
 Gecko) Chrome/13.0.782.107 Safari/535.1,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4888
```

On Jul 24, 3:18=A0pm, Kenneth Scharf <wa2...@bellsouth.net> wrote:

> For the most part I will be using coax fed antennas.
>
> There is an idea I've been thinking about and I wonder if it will work.
> There is a myth that high SWR on coax will produce a high line loss.
> Most of the loss involved with having a high SWR is in the coupling to
> the receiver / transmitter, not so much in the transmission line itself,
> at least not at HF. =A0So long as a high voltage is no present on the
> transmission line (arc over) or a very high current (resistive loss),
> and the dielectric material does not introduce loss at the frequency
> involved common 1/2" dia coax should work fine as an unbalanced feed
> line even at a high swr ratio.

Coax loss at high SWR is a myth? It's been tabulated in every handbook
for the past century.

> Common Ferrite core balums do not usually work well at impedances above
> 50/75 ohms input. =A0Using them to convert an unbalanced transmatch to a
> balanced one AT THE OUTPUT is usually not a good idea.

Often it's the choice made, though.

Baluns that deal with less than optimal impedances are available but they are no magic bullet. Substantial engineering effort and material must go into them to deal with the stresses at operating away from their natural sweet spot (as you point out 50 ohm ballpark.)

> (Insulate the
> transmatch from ground and put the balum at the input works better).
> A "choke" balum made by winding 10 turns or so of coax in a loop about a
> foot or so in diameter has lower loss than a ferrite core balum, no core
> heating.
>
> So my idea was to run a length of coax from the shack through the attic
> crawl space and up to the roof (though a vent turbine). =A0On the roof
> would be a coax choke balum connected to 450 ohm twinlead "open wire"
> line. =A0This would connect to a "multiband" dipole. =A0There is no way I
> can run the open wire line from the shack up to the roof, this stuff
> must be run 'in the clear' anyway. =A0Coax being an unbalanced line is no=
t
> affected by it's surroundings.

The coax to 450 ohm twinlead via choke "balun"... wow, it sounds like you are getting the worst of all possible worlds here. I agree that transformer-type baluns are stressed at high impedances but purposefully putting a 9:1 mismatch on the end of your coax is just asking for a world of hurt with anything except the most shortest coax runs (a few feet.)

You might want to back up a few steps and consider if you can locate a coax-to-twinlead tuner, almost certainly not broadband, on the wall or roof of the shack or house. That way you have a nice controlled 50 ohm coax run inside, and it's all twinlead outside. If the shack is far from the tuner, today there are remotely operated tuners just for this purpose. In the most traditional set ups mechanical remote operation (chains, pulleys, etc.) was sometimes used (look in any 30's/40's/50's handbook.) (When I was a kid my uncle who was a ham, used a scheme involving bicycle cranks and extra long chains for rotating his beam!)

Len Cebik's webpages are an excellent resource on ladder line, all band doublets, and link-coupled tuners. I can't emphasize enough how excellently this can work out. Don't paint yourself into a corner.

Tim N3QE

From 3387790474671388106
X-Google-Thread: fc2a5,c2e75251bdc7ba9,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx01.iad01.newshosting.com!
newshosting.com!post02.iad!not-for-mail
From: Jim <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew

Subject: Need shop to repair taut band meter movement
Date: Fri, 12 Aug 2011 08:27:44 -0500
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse(at)newshosting.com
Message-ID: <qfaa47pg3jodgtihcboehkfgbth4h4m4mv@4ax.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 9
Xref: g2news1.google.com rec.radio.amateur.homebrew:4592

Would anyone know of a reliable repair shop that can
repair a taut band 50 microamp meter movement that has
a broken band?

Thanks,

Jim, WA5DXP

From 5682349910703739793
X-Google-Thread: fc2a5,4ef8b26d826054c7,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!t7g2000vbv.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT VIDEOS 2 HOT PEOPLE AND ACTRESSES NEVER SEEN PHOTOS
Date: Mon, 15 Aug 2011 17:29:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 36
Message-ID: <cc01713a-78fc-4e9b-a70f-f90a845d8905@t7g2000vbv.googlegroups.com>
NNTP-Posting-Host: 117.199.243.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1313454653 24026 127.0.0.1 (16 Aug 2011 00:30:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 16 Aug 2011 00:30:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t7g2000vbv.googlegroups.com; posting-host=117.199.243.120;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.18)
 Gecko/20110614 Firefox/3.6.18,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4593

A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.com/

ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

ALL JOBS SITES FREE SEE

http://jobstwo.blogspot.com/

HOT VIDEOS

http://hotvideotoou.blogspot.com/2011/01/kiss-videos.html

hot lip kiss
http://hotvidos.blogspot.com/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.com/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.com/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.com/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.com/2010/07/tamil-hot-videos.html

From -7285673604276269502
X-Google-Thread: fc2a5,57ec04cb01cf7142,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Heathkit is BACK!
Date: Tue, 16 Aug 2011 20:44:00 -0400
Organization: A noiseless patient Spider
Lines: 26
Message-ID: <j2f2sg$udp$1@dont-email.me>

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Wed, 17 Aug 2011 00:44:01 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="l0aDpqCmMMi4515FD+cyLw";
     logging-data="31161"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+lyVAyU8SqYb3wFlMlr5qDM7i0PaQVTKA="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.18) Gecko/20110617
Thunderbird/3.1.11
Cancel-Lock: sha1:nT4I7rVFMR9rYXN7X7+NXCFsoXw=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4594
```

Check out their website. Heath is going back into the kit business.

HEATHKIT IS BACK In The Kit Business!

In late August, Heathkit will debut their new line of Do-it-Yourself kits for common around-the-house items. The first kit will be a Garage Parking Assistant (GPA). The Garage Parking assistant kit lets you build your own system that uses ultrasonic sound waves to locate your car as it enters the garage. The system signals to the driver using LED lights mounted on the wall when the car is detected and in the perfect spot for parking.

The GPA-100 kit consists of two primary assemblies - The LED Display in kit form and the pre-assembled ultrasonic range module. the kit will include everything you need to complete the project except a soldering iron and hand tools.

Next on the market will be a Wireless Swimming Pool Monitor kit followed by many more. Heathkit wants to continue to bring to its customers interesting, unique Heathkit products. Heathkit is interested in learning what types of products kit builders would like to build. Kit builders can submit their suggestions through this website using the Contact Us email.

http://www.heathkit.com/

```
From 4918707558431089‍46
X-Google-Thread: fc2a5,57ec04cb01cf7142
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!
aioe.org!.POSTED!not-for-mail
From: noone <KC9BZC@arrl.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit is BACK!
Followup-To: rec.radio.amateur.homebrew
Date: Wed, 17 Aug 2011 19:04:07 -0500
Organization: Aioe.org NNTP Server
```

Lines: 38
Message-ID: <j2hkt0$aqf$1@speranza.aioe.org>
References: <j2f2sg$udp$1@dont-email.me>
Reply-To: KC9BZC@arrl.org
NNTP-Posting-Host: K0WDPLVv//ybtVzcf0QUiQ.user.speranza.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset="ISO-8859-1"
Content-Transfer-Encoding: 7Bit
X-Complaints-To: abuse@aioe.org
User-Agent: KNode/4.4.7
X-Notice: Filtered by postfilter v. 0.8.2
Xref: g2news2.google.com rec.radio.amateur.homebrew:4892

Kenneth Scharf wrote:

> Check out their website. Heath is going back into the kit business.
>
> HEATHKIT IS BACK In The Kit Business!
>
> In late August, Heathkit will debut their new line of Do-it-Yourself
> kits for common around-the-house items. The first kit will be a
Garage
> Parking Assistant (GPA). The Garage Parking assistant kit lets you
> build your own system that uses ultrasonic sound waves to locate
your
> car as it enters the garage. The system signals to the driver using
LED
> lights mounted on the wall when the car is detected and in the
perfect
> spot for parking.
>
> The GPA-100 kit consists of two primary assemblies - The LED Display
in
> kit form and the pre-assembled ultrasonic range module. the kit
will
> include everything you need to complete the project except a
soldering
> iron and hand tools.
>
> Next on the market will be a Wireless Swimming Pool Monitor kit
followed
> by many more. Heathkit wants to continue to bring to its customers
> interesting, unique Heathkit products. Heathkit is interested in
> learning what types of products kit builders would like to build.
Kit
> builders can submit their suggestions through this website using the
> Contact Us email.
>
>
> http://www.heathkit.com/
i hope they come back with a ham radio! but don't think so.

```
From -3177569168015430098
X-Google-Thread: fc2a5,57ec04cb01cf7142
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!eternal-
september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: atec77 <atec77@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit is BACK!
Date: Thu, 18 Aug 2011 12:15:08 +1000
Organization: A noiseless patient Spider
Lines: 10
Message-ID: <j2hsji$ic$1@dont-email.me>
References: <j2f2sg$udp$1@dont-email.me>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 18 Aug 2011 02:15:15 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="boEWUuaP+eHgRsXSv318Bg";
     logging-data="588"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18cMAZ64Z3DI3phAQWxox4v"
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:6.0) Gecko/20110812
Thunderbird/6.0
In-Reply-To: <j2f2sg$udp$1@dont-email.me>
Cancel-Lock: sha1:N5i+CLU9Z/Fgg7US8Wzf+Ipc1t8=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4893

On 17/08/2011 10:44 AM, Kenneth Scharf wrote:
> Check out their website. Heath is going back into the kit business.
>
> HEATHKIT IS BACK In The Kit Business!
>
Pointless without a radio or two being simple and affordable

--
X-No-Archive: Yes




From 7799933926046155720
X-Google-Thread: fc2a5,57ec04cb01cf7142
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 18 Aug 2011 06:09:39 -0500
Date: Thu, 18 Aug 2011 11:09:39 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.20) Gecko/
20110804 Thunderbird/3.1.12
```

```
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit is BACK!
References: <j2f2sg$udp$1@dont-email.me> <j2hsji$ic$1@dont-email.me>
In-Reply-To: <j2hsji$ic$1@dont-email.me>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <EcOdnUCrNb1ub9HTnZ2dnUVZ_rudnZ2d@bright.net>
Lines: 14
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace:
sv3-4neqwDl5zsCwvBRx6CV4/+G3dfI5wG5v18w65y9k7AjXZLGmBTd9YivasMB1cUXWsRxGS1m58LwSfN
N!c5ZEHfDFbi8KbUgYsyoxcI6fR7gp7MEGIxrD81cExaS8HXZEDM6CT3YeyvPPJF8D1iWjNbHl0XNA!
IFB9OKoNmw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1648
Xref: g2news2.google.com rec.radio.amateur.homebrew:4894

On 8-18-2011 02:15, atec77 wrote:
> On 17/08/2011 10:44 AM, Kenneth Scharf wrote:
>> Check out their website. Heath is going back into the kit business.
>>
>> HEATHKIT IS BACK In The Kit Business!
>>
> Pointless without a radio or two being simple and affordable
>
And...I'm not so sure they will be the "kits" of the old days with a bag
of resistors and some capacitors.  Looks like they will basically be PC
board modules that one simply puts into case???  Can't tell for sure,
though...




From 6125084790607830572
X-Google-Thread: fc2a5,57ec04cb01cf7142
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
weretis.net!feeder4.news.weretis.net!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: atec77 <atec77@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit is BACK!
Date: Thu, 18 Aug 2011 21:20:28 +1000
Organization: A noiseless patient Spider
Lines: 20
Message-ID: <j2isi3$4lq$1@dont-email.me>
```

```
References: <j2f2sg$udp$1@dont-email.me> <j2hsji$ic$1@dont-email.me>
<EcOdnUCrNb1ub9HTnZ2dnUVZ_rudnZ2d@bright.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 18 Aug 2011 11:20:35 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="boEWUuaP+eHgRsXSv318Bg";
     logging-data="4794"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18gjQx/1MogUh8rWb503sRW"
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:6.0) Gecko/20110812
Thunderbird/6.0
In-Reply-To: <EcOdnUCrNb1ub9HTnZ2dnUVZ_rudnZ2d@bright.net>
Cancel-Lock: sha1:3XDiRnMvj10a5i/hH0THu9t0OOU=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4895

On 18/08/2011 9:09 PM, Scott wrote:
> On 8-18-2011 02:15, atec77 wrote:
>> On 17/08/2011 10:44 AM, Kenneth Scharf wrote:
>>> Check out their website. Heath is going back into the kit business.
>>>
>>> HEATHKIT IS BACK In The Kit Business!
>>>
>> Pointless without a radio or two being simple and affordable
>>
> And...I'm not so sure they will be the "kits" of the old days with a bag
> of resistors and some capacitors. Looks like they will basically be PC
> board modules that one simply puts into case??? Can't tell for sure,
> though...
>
>
Of course it will be in some cases , another branded K3 style would be good

--
X-No-Archive: Yes



From 3378328460170351168
X-Google-Thread: fc2a5,57ec04cb01cf7142
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!goblin2!goblin.stu.neva.ru!aioe.org!
eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: atec77 <atec77@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit is BACK!
Date: Fri, 19 Aug 2011 06:31:04 +1000
Organization: A noiseless patient Spider
Lines: 33
Message-ID: <j2jtba$ei9$1@dont-email.me>
References: <j2f2sg$udp$1@dont-email.me> <j2hsji$ic$1@dont-email.me>
<j2jcmf$51e$1@dk3uz.ampr.org>
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 18 Aug 2011 20:40:11 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="boEWUuaP+eHgRsXSv318Bg";
     logging-data="14921"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+DpbFkANm4NVwCt0FqJhUO"
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:6.0) Gecko/20110812
Thunderbird/6.0
In-Reply-To: <j2jcmf$51e$1@dk3uz.ampr.org>
Cancel-Lock: sha1:hS8Tft10vwEZEWgxvXOTP16C9I4=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4897

On 19/08/2011 1:56 AM, Edmund H. Ramm wrote:
> In<j2hsji$ic$1@dont-email.me>  atec77<atec77@hotmail.com>  writes:
>
>> On 17/08/2011 10:44 AM, Kenneth Scharf wrote:
>>> Check out their website. Heath is going back into the kit business.
>>>
>>> HEATHKIT IS BACK In The Kit Business!
>>>
>> Pointless without a radio or two being simple and affordable
>                                                       ^^^^^^^^^^
>
>     That El Cheapo attitude is what not only killed the Heathkit
> amateur radio branch, but most of the U.S. American amateur radio
> industry, too.
>
>     If Heathkit were to bring out an amateur radio kit, I'd buy it,
> no matter what the price tag.
>
>     73, Eddi ._._.
A fail to provide value is what killed a lot of electronics business ,
it happened here as well and an insistence on recycling old tech
solutions when the opposition was leaping generations ahead in quality
and miniaturisation
I said affordable and a lot of people think building their own radios as
exampled a k3 or k3 (as do I), if Heathkit were to produce a kit of
similar value and quality it would sell and sell well , same as that
solid state   3 to 55 mhz gallon amp kit for a less than two grand with
fill filtering .
  but how large is the if ?

--
X-No-Archive: Yes



From 3006653545261490420
X-Google-Thread: fc2a5,57ec04cb01cf7142
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!eternal-
september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: david <none@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit is BACK!
Date: Fri, 19 Aug 2011 11:32:11 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 33
Message-ID: <j2lhjr$1o9$1@dont-email.me>
References: <j2f2sg$udp$1@dont-email.me>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Injection-Date: Fri, 19 Aug 2011 11:32:11 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="bjWYrj62SlFF26beZ41+cA";
     logging-data="1801"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18SAUDKii2afPyK9O8QBOhQ"
Cancel-Lock: sha1:7x5lfxUtvaOZ0L5nQcdWxqD45p8=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4601
```

On Tue, 16 Aug 2011 20:44:00 -0400, Kenneth Scharf rearranged some electrons to say:

> Check out their website. Heath is going back into the kit business.
>
> HEATHKIT IS BACK In The Kit Business!
>
> In late August, Heathkit will debut their new line of Do-it-Yourself kits for common around-the-house items. The first kit will be a Garage Parking Assistant (GPA). The Garage Parking assistant kit lets you build your own system that uses ultrasonic sound waves to locate your car as it enters the garage. The system signals to the driver using LED lights mounted on the wall when the car is detected and in the perfect spot for parking.
>
> The GPA-100 kit consists of two primary assemblies - The LED Display in kit form and the pre-assembled ultrasonic range module. the kit will include everything you need to complete the project except a soldering iron and hand tools.
>
> Next on the market will be a Wireless Swimming Pool Monitor kit followed by many more. Heathkit wants to continue to bring to its customers interesting, unique Heathkit products. Heathkit is interested in learning what types of products kit builders would like to build. Kit builders can submit their suggestions through this website using the Contact Us email.
>
>
> http://www.heathkit.com/

I would not hold my breath if I were you. This is not the same Heathkit that we all remember. Their primary business is selling training materials.

From 5769894934822003801
X-Google-Thread: fc2a5,57ec04cb01cf7142
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!usenet-fr.net!de-l.enfer-du-nord.net!feeder1.enfer-du-nord.net!cs.uu.nl!news0.firedrake.org!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit is BACK!
Date: Fri, 19 Aug 2011 11:23:38 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 50
Sender: et472@72.0.192.99
Message-ID: <Pine.LNX.4.64.1108191120340.29527@darkstar.example.net>
References: <j2f2sg$udp$1@dont-email.me> <j2lhjr$1o9$1@dont-email.me>
NNTP-Posting-Host: 72.0.192.99
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1313767454 21298 72.0.192.99 (19 Aug 2011 15:24:14 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 19 Aug 2011 15:24:14 GMT
In-Reply-To: <j2lhjr$1o9$1@dont-email.me>
Xref: g2news1.google.com rec.radio.amateur.homebrew:4602

On Fri, 19 Aug 2011, david wrote:

> On Tue, 16 Aug 2011 20:44:00 -0400, Kenneth Scharf rearranged some
> electrons to say:
>
>> Check out their website. Heath is going back into the kit business.
>>
>> HEATHKIT IS BACK In The Kit Business!
>>
>> In late August, Heathkit will debut their new line of Do-it-Yourself
>> kits for common around-the-house items. The first kit will be a Garage
>> Parking Assistant (GPA). The Garage Parking assistant kit lets you
>> build your own system that uses ultrasonic sound waves to locate your
>> car as it enters the garage. The system signals to the driver using LED
>> lights mounted on the wall when the car is detected and in the perfect
>> spot for parking.
>>
>> The GPA-100 kit consists of two primary assemblies - The LED Display in
>> kit form and the pre-assembled ultrasonic range module. the kit will
>> include everything you need to complete the project except a soldering
>> iron and hand tools.
>>
>> Next on the market will be a Wireless Swimming Pool Monitor kit followed
>> by many more. Heathkit wants to continue to bring to its customers
>> interesting, unique Heathkit products. Heathkit is interested in

>> learning what types of products kit builders would like to build. Kit
>> builders can submit their suggestions through this website using the
>> Contact Us email.
>>
>>
>> http://www.heathkit.com/
>
> I would not hold my breath if I were you. This is not the same Heathkit
> that we all remember. Their primary business is selling training
> materials.
>

Yes. I was trying to remember if what is now "Heath" was a subset of what existed after a retrench, or if the old company shut down and sold the name and whatever was of value to some other company. I can't remember which. I remember when the kits stopped, the story was "No more kits" in large print, then "but training material continues" in very fine print, but I can't remember the complete story.

There was some fuss a year or two ago when someobdy bought the rights to the old manuals and started charging for them. That the company sold off those rights suggests it is a distinctively separate company now, but I can't remember.

Michael VE2BVW

```
From -7523643648751821368
X-Google-Thread: 241b302a50,57ec04cb01cf7142
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!eternal-
september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit is BACK!
Date: Sat, 20 Aug 2011 15:58:42 -0400
Organization: A noiseless patient Spider
Lines: 54
Message-ID: <j2p3lk$nnb$1@dont-email.me>
References: <j2f2sg$udp$1@dont-email.me> <j2lhjr$1o9$1@dont-email.me>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 20 Aug 2011 19:58:44 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="C7mdJFYQYhqHP71hjMeFtA";
     logging-data="24299"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/h1KLbPMPr7OCwo0Md7P8eXpfaBmK0I6c="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.18) Gecko/20110617
Thunderbird/3.1.11
In-Reply-To: <j2lhjr$1o9$1@dont-email.me>
Cancel-Lock: sha1:CXyTwcEKSYC13cuSDve1ePh+zjs=
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:4603

On 08/19/2011 07:32 AM, david wrote:
> On Tue, 16 Aug 2011 20:44:00 -0400, Kenneth Scharf rearranged some
> electrons to say:
>
>> Check out their website. Heath is going back into the kit business.
>>
>> HEATHKIT IS BACK In The Kit Business!
>>
>> In late August, Heathkit will debut their new line of Do-it-Yourself
>> kits for common around-the-house items. The first kit will be a Garage
>> Parking Assistant (GPA). The Garage Parking assistant kit lets you
>> build your own system that uses ultrasonic sound waves to locate your
>> car as it enters the garage. The system signals to the driver using LED
>> lights mounted on the wall when the car is detected and in the perfect
>> spot for parking.
>>
>> The GPA-100 kit consists of two primary assemblies - The LED Display in
>> kit form and the pre-assembled ultrasonic range module. the kit will
>> include everything you need to complete the project except a soldering
>> iron and hand tools.
>>
>> Next on the market will be a Wireless Swimming Pool Monitor kit followed
>> by many more. Heathkit wants to continue to bring to its customers
>> interesting, unique Heathkit products. Heathkit is interested in
>> learning what types of products kit builders would like to build. Kit
>> builders can submit their suggestions through this website using the
>> Contact Us email.
>>
>>
>> http://www.heathkit.com/
>
> I would not hold my breath if I were you. This is not the same Heathkit
> that we all remember. Their primary business is selling training
> materials.

I'm crossing my fingers but I don't expect anything big from Heath, at
least not for a while. They are just testing the water now and if the
response is good they will add to the line. Might be a few years before
they go 'all in' on the kit business.

I've never ordered any of their educational products, but I've been told
that the manuals are up to par with the best of the materials they
produced in the kit business.

It wasn't only a shift in consumer attitude toward DIY that killed off
the old Heath. Electronics has become more high tech with tiny parts
that defy kit builders. The pendulum has swung back though, and DIY is
in vogue again. Witness MAKE magazine, Adafruit.com, sparkfun.com,
evilmadscientist.com etc. The 'maker movement is the new DIY. This
will involve different kinds of kits, such as building your own CNC
mill, laser cutter or 3D printer. (google the web, such projects are
common). If heath can offer products into this area they will scratch

an itch and do well.

From -5443105137511804266
X-Google-Thread: fc2a5,57ec04cb01cf7142
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!isp-post01.iad!news.highwinds-media.com!not-for-mail
Date: Sat, 20 Aug 2011 20:11:09 -0400
From: BigRedTruck <pberry2@cfl.rr.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.18) Gecko/20110617 Lightning/1.0b2 Thunderbird/3.1.11
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit is BACK!
References: <j2f2sg$udp$1@dont-email.me>
In-Reply-To: <j2f2sg$udp$1@dont-email.me>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 41
Message-ID: <4e504d1d$0$30083$9a6e19ea@unlimited.newshosting.com>
Organization: Newshosting.com - Highest quality at a great price! www.newshosting.com
NNTP-Posting-Host: 184.91.49.79
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:4604

On 08/16/2011 08:44 PM, Kenneth Scharf wrote:

> Check out their website. Heath is going back into the kit business.
>
> HEATHKIT IS BACK In The Kit Business!
>
> In late August, Heathkit will debut their new line of Do-it-Yourself kits for common around-the-house items. The first kit will be a Garage Parking Assistant (GPA). The Garage Parking assistant kit lets you build your own system that uses ultrasonic sound waves to locate your car as it enters the garage. The system signals to the driver using LED lights mounted on the wall when the car is detected and in the perfect spot for parking.
>
> The GPA-100 kit consists of two primary assemblies - The LED Display in kit form and the pre-assembled ultrasonic range module. the kit will include everything you need to complete the project except a soldering iron and hand tools.
>
> Next on the market will be a Wireless Swimming Pool Monitor kit followed by many more. Heathkit wants to continue to bring to its customers interesting, unique Heathkit products. Heathkit is interested in

> learning what types of products kit builders would like to build. Kit
> builders can submit their suggestions through this website using the
> Contact Us email.
>
>
> http://www.heathkit.com/

Thanks!

There ARE still about 750,000 US HAMs who build from scratch, or kits, when we can find them!

That is a large enough market, but, when added to the "Make Use Of" crowd, and the "Instructable" folks, the computer "modders", X10, and Arduino fans, and we can see a market of at least 1.5 million potential kit builders!

I know that in building the inexpensive kits from India, that usually don't contain the cases, knobs, transformers, (no problem!), there are a lot of us hungering for more projects, that are more complete!

```
From 6461406811541904825
X-Google-Thread: fc2a5,57ec04cb01cf7142
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
news2.arglkargh.de!news.theremailer.net!frell.theremailer.net!anonymous
From: Fritz Wuehler <fritz@spamexpire-201108.rodent.frell.theremailer.net>
Comments: This message did not originate from the Sender address above.
     It was remailed automatically by anonymizing remailer software.
     Please report problems or inappropriate use to the
     remailer administrator at <abuse@frell.theremailer.net>.
     Identifying the real sender is technically impossible.
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit is BACK!
References: <4e504d1d$0$30083$9a6e19ea@unlimited.newshosting.com>
Message-ID: <d1a5596270d3e0f2850354baa4c99486@msgid.frell.theremailer.net>
Precedence: anon
Date: Sun, 21 Aug 2011 06:12:27 +0200
Mail-To-News-Contact: abuse@frell.theremailer.net
Organization: Frell Anonymous Remailer
Xref: g2news1.google.com rec.radio.amateur.homebrew:4605
```

> > http://www.heathkit.com/

The kits mentioned aren't going to be of interest to anyone.

For some good ideas of what would be of interest, just check old HeathKit catalogs. Times may have changed, but we haven't. We like amateur radio kits, stereo kits, clock kits, computer kits. Only a bit of updating is necessary to sell all you can make.

From 8137956615347543830
X-Google-Thread: 241b302a50,57ec04cb01cf7142
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe05.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.18) Gecko/20110617 Thunderbird/3.1.11
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit is BACK!
References: <4e504d1d$0$30083$9a6e19ea@unlimited.newshosting.com> <d1a5596270d3e0f2850354baa4c99486@msgid.frell.theremailer.net>
In-Reply-To: <d1a5596270d3e0f2850354baa4c99486@msgid.frell.theremailer.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 38
Message-ID: <rT74q.20049$iK1.12843@newsfe05.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Sun, 21 Aug 2011 13:38:31 UTC
Organization: TeraNews.com
Date: Sun, 21 Aug 2011 08:38:29 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:4606

On 08/20/2011 11:12 PM, Fritz Wuehler wrote:
>>> http://www.heathkit.com/
>
> The kits mentioned aren't going to be of interest to anyone.
>
> For some good ideas of what would be of interest, just check old HeathKit
> catalogs. Times may have changed, but we haven't. We like amateur radio
> kits, stereo kits, clock kits, computer kits. Only a bit of updating is
> necessary to sell all you can make.
>

Ah yes
the good old days.

Though I built a few Knightkits in my time
I never built any Heathkits but I did once own
a Heathkit Cheyenne transmitter.

At one time I used the external power supply
as a battery charger for my '53 Chevy truck.
(bought it in 1971)

I just took the heavy duty 6v filament winding
and ran it to a bridge rectifier.

The truck usually did start on cold days...
but quite often I'd park it on the top of a hill
and "pop the clutch" to get it started.

The hill was long enough to give me three chances
and only once did that method not work :)

Times have changed...
and Heathkit will never be what it was back in the old days...
nothing will be like it once was back then

```
From -4149986865686799746
X-Google-Thread: fc2a5,57ec04cb01cf7142
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!eternal-
september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: david <none@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit is BACK!
Date: Mon, 22 Aug 2011 09:47:54 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 49
Message-ID: <j2t8ka$iek$1@dont-email.me>
References: <j2f2sg$udp$1@dont-email.me>
     <4e504d1d$0$30083$9a6e19ea@unlimited.newshosting.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Injection-Date: Mon, 22 Aug 2011 09:47:54 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="bjWYrj62SlFF26beZ41+cA";
     logging-data="18900"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/VM0R6iKLC9a3OAVGEoEym"
Cancel-Lock: sha1:lZX0paSag5LzYhMjvHel8XScpjw=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4904
```

On Sat, 20 Aug 2011 20:11:09 -0400, BigRedTruck rearranged some electrons
to say:

> On 08/16/2011 08:44 PM, Kenneth Scharf wrote:
>> Check out their website. Heath is going back into the kit business.
>>
>> HEATHKIT IS BACK In The Kit Business!
>>
>> In late August, Heathkit will debut their new line of Do-it-Yourself
>> kits for common around-the-house items. The first kit will be a Garage

```
>> Parking Assistant (GPA). The Garage Parking assistant kit lets you
>> build your own system that uses ultrasonic sound waves to locate your
>> car as it enters the garage. The system signals to the driver using LED
>> lights mounted on the wall when the car is detected and in the perfect
>> spot for parking.
>>
>> The GPA-100 kit consists of two primary assemblies - The LED Display in
>> kit form and the pre-assembled ultrasonic range module. the kit will
>> include everything you need to complete the project except a soldering
>> iron and hand tools.
>>
>> Next on the market will be a Wireless Swimming Pool Monitor kit
>> followed by many more. Heathkit wants to continue to bring to its
>> customers interesting, unique Heathkit products. Heathkit is interested
>> in learning what types of products kit builders would like to build.
>> Kit builders can submit their suggestions through this website using
>> the Contact Us email.
>>
>>
>> http://www.heathkit.com/
>
> Thanks!
>
> There ARE still about 750,000 US HAMs who build from scratch, or kits,
> when we can find them!
>
> That is a large enough market, but, when added to the "Make Use Of"
> crowd, and the "Instructable" folks, the computer "modders", X10, and
> Arduino fans,  and we can see a market of at least 1.5 million potential
> kit builders!
>
> I know that in building the  inexpensive kits from India, that usually
> don't contain the cases, knobs, transformers, (no problem!), there are a
> lot of us hungering for more projects, that are more complete!

www.elecraft.com

No I don't work for them but I have given them my credit card number
several times.  My primary HF rig is a K2/100.


From 1478719299647078267
X-Google-Thread: fc2a5,57ec04cb01cf7142
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!eternal-
september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: highlandham <highlandham.nospam@rfburns.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit is BACK!
Date: Mon, 22 Aug 2011 23:53:30 +0100
Organization: A noiseless patient Spider
```

```
Lines: 61
Message-ID: <j2umla$4dt$1@dont-email.me>
References: <j2f2sg$udp$1@dont-email.me> <j2lhjr$1o9$1@dont-email.me>
<j2p3lk$nnb$1@dont-email.me>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Mon, 22 Aug 2011 22:53:31 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="eLWyMgIHVbz29VHgZD0Jug";
     logging-data="4541"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19SKK+eLV1tiuKbTjKTWl5x9Tz6GOj+jmw="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.18) Gecko/20110617
Thunderbird/3.1.11
In-Reply-To: <j2p3lk$nnb$1@dont-email.me>
Cancel-Lock: sha1:yKwEXbBZ2VPQ69eTHhL0LKseIYE=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4905

On 20/08/11 20:58, Kenneth Scharf wrote:
> On 08/19/2011 07:32 AM, david wrote:
>> On Tue, 16 Aug 2011 20:44:00 -0400, Kenneth Scharf rearranged some
>> electrons to say:
>>
>>> Check out their website. Heath is going back into the kit business.
>>>
>>> HEATHKIT IS BACK In The Kit Business!
>>>
>>> In late August, Heathkit will debut their new line of Do-it-Yourself
>>> kits for common around-the-house items. The first kit will be a Garage
>>> Parking Assistant (GPA). The Garage Parking assistant kit lets you
>>> build your own system that uses ultrasonic sound waves to locate your
>>> car as it enters the garage. The system signals to the driver using LED
>>> lights mounted on the wall when the car is detected and in the perfect
>>> spot for parking.
>>>
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>>> kit form and the pre-assembled ultrasonic range module. the kit will
>>> include everything you need to complete the project except a soldering
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>>>
>>> Next on the market will be a Wireless Swimming Pool Monitor kit followed
>>> by many more. Heathkit wants to continue to bring to its customers
>>> interesting, unique Heathkit products. Heathkit is interested in
>>> learning what types of products kit builders would like to build. Kit
>>> builders can submit their suggestions through this website using the
>>> Contact Us email.
>>>
>>>
>>> http://www.heathkit.com/
>>
>> I would not hold my breath if I were you. This is not the same Heathkit
>> that we all remember. Their primary business is selling training
>> materials.
> I'm crossing my fingers but I don't expect anything big from Heath, at
> least not for a while. They are just testing the water now and if the
> response is good they will add to the line. Might be a few years before
> they go 'all in' on the kit business.
>
> I've never ordered any of their educational products, but I've been told
> that the manuals are up to par with the best of the materials they
> produced in the kit business.
>
> It wasn't only a shift in consumer attitude toward DIY that killed off
> the old Heath. Electronics has become more high tech with tiny parts
> that defy kit builders. The pendulum has swung back though, and DIY is
> in vogue again. Witness MAKE magazine, Adafruit.com, sparkfun.com,
> evilmadscientist.com etc. The 'maker movement is the new DIY. This will
> involve different kinds of kits, such as building your own CNC mill,
> laser cutter or 3D printer. (google the web, such projects are common).
> If heath can offer products into this area they will scratch an itch and
> do well.
===============================
I still regularly use a Heathkit ET-3300 Laboratory Breadbord as well as
an Ultrasonic Cleaner I both kit-built in 1975.

Frank  GM0CSZ / KN6WH
```

```
From 7899850647099251161
X-Google-Thread: fc2a5,5a3a6690fb654638,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!t7g2000vbv.googlegroups.com!not-for-
mail
From: looking1513 <pmlohr@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: XXX messages
Date: Tue, 23 Aug 2011 09:40:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 6
Message-ID: <0af38413-0cca-4c82-8ec4-b782b82f6149@t7g2000vbv.googlegroups.com>
NNTP-Posting-Host: 174.96.51.127
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1314117610 23980 127.0.0.1 (23 Aug 2011 16:40:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 23 Aug 2011 16:40:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t7g2000vbv.googlegroups.com; posting-host=174.96.51.127; posting-
account=5r7jfwoAAADd3U_SIcDewTJfao5t3sB2
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
```

```
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:6.0) Gecko/20100101
Firefox/6.0,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4609

What is all this junk XXX stuff on this site.  If this is a amateur
radio homebrew site why have all this TRASH on it?
How about blocking this stuff and cleaning up the site so we don't
have to plow through trash to get to the good info!

73's pml



From 4293851956709575029
X-Google-Thread: fc2a5,feb590c0205bd70e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.35.68 with SMTP id f4mr46743909pbj.5.1319728861082;
        Thu, 27 Oct 2011 08:21:01 -0700 (PDT)
Path: p6ni3688pbn.0!nntp.google.com!news1.google.com!postnews.google.com!
x21g2000yqb.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: decent, low or moderate cost home brew RF amp?
Date: Thu, 27 Oct 2011 08:15:21 -0700 (PDT)
Organization: http://groups.google.com
Lines: 25
Message-ID: <71484d9a-111b-4dd2-9d00-f951f3f6308a@x21g2000yqb.googlegroups.com>
References: <j81q0c$imo$1@dont-email.me>
NNTP-Posting-Host: 24.172.190.98
Mime-Version: 1.0
X-Trace: posting.google.com 1319728860 11284 127.0.0.1 (27 Oct 2011 15:21:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 27 Oct 2011 15:21:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x21g2000yqb.googlegroups.com; posting-host=24.172.190.98; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:7.0.1) Gecko/20110928
 Firefox/7.0.1 SeaMonkey/2.4.1,gzip(gfe)
Xref: news1.google.com rec.radio.amateur.homebrew:3185
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

On Oct 23, 3:30=A0pm, "John Cooper" <n...@none.com> wrote:
> Being out of ham for nearly 20 years, I am recently getting back involved=
 on
> HF voice (10-80 meters). =A0I have a small 2 watt QRP SSB rig that I woul=
d
> like to boost up to at least 100 W PEP in the mobile. =A0What amps are
> available accepting low drive on HF for >100 w output? =A0How about schem=
```

atics
> or plans? =A0Thank you, John

Hey OT:

Try this Indian ham his web page for an amp is here:
http://www.foxdelta.com/products/rfamp.htm#mrf

He notes in other links that it comes from a clone mod of K7ES's ARRL
1981-3 handbook amp using MRF454's

His amp uses MRF455's, which the spec says they gots 13 db power gain.
meaning 3 watts in 60 watts on paper.
albiet he uses push pull, so I recall somewhere he gets 5 watts in 100
watts out in the real world.

73 OM
de n8zu

```
From -4087150483183248852
X-Google-Thread: fc2a5,bb6ae8769568f31,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.146.17 with SMTP id f17mr514036bkv.5.1319829492063;
        Fri, 28 Oct 2011 12:18:12 -0700 (PDT)
Path: l23ni7990bkv.0!nntp.google.com!news2.google.com!news.glorb.com!
feeder.erje.net!feeder2.ecngs.de!ecngs!feeder.ecngs.de!Xl.tags.giganews.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!local2.nntp.ams.giganews.com!
nntp.bt.com!news.bt.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 28 Oct 2011 14:16:42 -0500
From: "Howard James" <h.james.james@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: MC3362 FM Receiver
Date: Fri, 28 Oct 2011 20:16:38 +0100
MIME-Version: 1.0
X-Priority: 3
X-MSMail-Priority: Normal
Importance: Normal
X-Newsreader: Microsoft Windows Live Mail 15.4.3538.513
X-MimeOLE: Produced By Microsoft MimeOLE V15.4.3538.513
Message-ID: <uomdneE2pYwHYjfTnZ2dnUVZ7o2dnZ2d@bt.com>
Lines: 6
X-Usenet-Provider: http://www.giganews.com
X-AuthenticatedUsername: NoAuthUser
X-Trace: sv3-UUmfs29t1FCTBhBnV2Ie+X4vAb6RJiOGO3TeueEjK/
AB68JfrTijZFYKWHkrgTyFs0uyCeRM/D8BncX!+4fGiWUQY3UHszwBlIN+3Ub/
Hd+jGAYpkSX5WCx+542SM/Cxnw6VKFWo2Ea/RJXkES8xgc/1z7E=
X-Complaints-To: abuse@btinternet.com
X-DMCA-Complaints-To: abuse@btinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

```
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1452
Xref: news2.google.com rec.radio.amateur.homebrew:1895
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
```

I'm using a Motorola MC3362 in a 2 meter receiver with good results.
However, I know there is a similar Motorola device that has a built in RF amplifier. Does anyone have the part number please? I've done searches to no avail.
Thanks. Howard. G3UPZ

```
From 8239376918625560038
X-Google-Thread: fc2a5,bb6ae8769568f31
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.15.134 with SMTP id x6mr11378551pbc.0.1320035731472;
        Sun, 30 Oct 2011 21:35:31 -0700 (PDT)
Path: p6ni41222pbn.0!nntp.google.com!news2.google.com!postnews.google.com!
q39g2000prg.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MC3362 FM Receiver
Date: Sun, 30 Oct 2011 21:33:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <848429c6-92bc-4f02-a39c-a324eed6732a@q39g2000prg.googlegroups.com>
References: <uomdneE2pYwHYjfTnZ2dnUVZ7o2dnZ2d@bt.com>
NNTP-Posting-Host: 50.46.189.195
Mime-Version: 1.0
X-Trace: posting.google.com 1320035731 11577 127.0.0.1 (31 Oct 2011 04:35:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 31 Oct 2011 04:35:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q39g2000prg.googlegroups.com; posting-host=50.46.189.195; posting-
account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:7.0.1) Gecko/20100101 Firefox/
7.0.1,gzip(gfe)
Xref: news2.google.com rec.radio.amateur.homebrew:1896
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
```

I'm looking at my Motorola "Wireless Semiconductor Solutions (Device

Data - Vol. 1), 1998. When did Motorola spin off ON Semi? Some time not long after that, I think. Anyway, in the selector guide on page 1.1-12, it lists the MC3362 as having typical 0.7uV sensitivity, and the similar MC3363 as having an RF amplifier and 0.4uV sensitivity. Both are listed as dual conversion parts. There are also some single conversion parts listed, but they have poorer sensitivities. Looks like you can find the data sheet for it several places on the web, but where you find the part itself is another matter. Maybe they are common at certain surplus dealers...

Cheers,
Tom

The sensitivities are at 12dB SINAD. Hope that helps. On Oct 28, 12:16=A0pm, "Howard James" <h.james.ja...@btinternet.com> wrote:
> I'm using a Motorola MC3362 in a 2 meter receiver with good results.
> However, I know there is a similar Motorola device that has a built in RF
> amplifier. Does anyone have the part number please? I've done searches to=
 no
> avail.
> Thanks. Howard. G3UPZ

```
From 6351942718264824003
X-Google-Thread: fc2a5,60dde87e0b7f703c,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.27.132 with SMTP id t4mr12139135pbg.3.1320056918796;
        Mon, 31 Oct 2011 03:28:38 -0700 (PDT)
Path: p6ni43750pbn.0!nntp.google.com!news1.google.com!postnews.google.com!
z22g2000prd.googlegroups.com!not-for-mail
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT VIDEOS FOR YOUTH AND WORLD SEXIEST GIRLS HOT PHOTOS
Date: Mon, 31 Oct 2011 03:28:38 -0700 (PDT)
Organization: http://groups.google.com
Lines: 35
Message-ID: <b17e799c-e646-4bff-8667-bebf1d218924@z22g2000prd.googlegroups.com>
NNTP-Posting-Host: 117.199.250.96
Mime-Version: 1.0
X-Trace: posting.google.com 1320056918 1605 127.0.0.1 (31 Oct 2011 10:28:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 31 Oct 2011 10:28:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z22g2000prd.googlegroups.com; posting-host=117.199.250.96;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.23)
 Gecko/20110920 Firefox/3.6.23,gzip(gfe)
```

```
Xref: news1.google.com rec.radio.amateur.homebrew:3188
Content-Type: text/plain; charset=ISO-8859-1



      A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.com/


             ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

               ALL  JOBS   SITES FREE SEE

http://jobstwo.blogspot.com/



HOT VIDEOS

http://hotvideotoou.blogspot.com/2011/01/kiss-videos.html



hot lip kiss
http://hotvidos.blogspot.com/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.com/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.com/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.com/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.com/2010/07/tamil-hot-videos.html




From 8381587048762555200
X-Google-Thread: 108122,a295e19141f79b04,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,a295e19141f79b04,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,a295e19141f79b04,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,a295e19141f79b04,start
X-Google-NewGroupId: yes
X-Google-Thread: 10e8ad,a295e19141f79b04,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,a295e19141f79b04,start
X-Google-NewGroupId: yes
```

```
X-Google-Attributes:
gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf6,gid8f86f75953,gida4a23d5f6
3,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.140.144 with SMTP id i16mr1084872bku.0.1320127204346;
        Mon, 31 Oct 2011 23:00:04 -0700 (PDT)
MIME-Version: 1.0
Path: l23ni40159bkv.0!nntp.google.com!news2.google.com!news.glorb.com!news-
out.readnews.com!transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1317448801@panix.com>
Followup-To: poster
Date: 1 Nov 2011 02:00:03 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 04 Dec 2011 01:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1320127201@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1320127203 8352 166.84.1.2 (1 Nov 2011 06:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 1 Nov 2011 06:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Xref: news2.google.com rec.radio.amateur.antenna:10055 rec.radio.amateur.dx:699
rec.radio.amateur.equipment:1081 rec.radio.amateur.homebrew:1898
rec.radio.amateur.misc:2449 rec.radio.amateur.policy:9697
rec.radio.amateur.space:312 rec.radio.info:1908
```

```
Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html
```

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From -9023128109999176750
X-Google-Thread: fc2a5,e22b029f6c1049dd,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.184.2 with SMTP id ci2mr1306198bkb.7.1320343204465;
        Thu, 03 Nov 2011 11:00:04 -0700 (PDT)
Path: l23ni54899bkv.0!nntp.google.com!news2.google.com!news.glorb.com!
newsfeed-3001.bay.webtv.net!newssorter-3001.bay.webtv.net!not-for-mail
From: ogrowup@webtv.net (Padraigh ProAmerica)
Newsgroups: rec.radio.amateur.homebrew
Subject: CB to 10M conversion
Date: Thu, 3 Nov 2011 13:59:41 -0400
Organization: WebTV Subscriber
Lines: 11
Message-ID: <945-4EB2D68D-973@storefull-3172.bay.webtv.net>
NNTP-Posting-Host: localhost.webtv.net
Mime-Version: 1.0 (WebTV)
```

```
X-WebTV-Signature: 1
     ETAuAhUArmusMu6F4Tq1VnADg4lu3w8Nm3oCFQCqt4E/sNqBr5kF18AJfvgxocAJyw==
Xref: news2.google.com rec.radio.amateur.homebrew:1899
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
Content-Disposition: Inline

Just acquired from an old lady her old CB transceiver. It's rather old;
crystal controlled. Is it feasable to swap out the 27 MHz crystals and
replace them with 10M crystals? Is there a source for these crystals?
And would any major modifications to the rig be required?

Any info would be appreciated (and yes, I hold  a Technician class
license).

--
"History is not a spectator sport."-- Dr. Bruce Freeberg --



From -4156075697284028156
X-Google-Thread: fc2a5,e22b029f6c1049dd
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.140.144 with SMTP id i16mr1384547bku.0.1320349815620;
        Thu, 03 Nov 2011 12:50:15 -0700 (PDT)
Path: l23ni55196bkv.0!nntp.google.com!news1.google.com!volia.net!news2.volia.net!
feed-A.news.volia.net!news.musoftware.de!wum.musoftware.de!news.mixmin.net!
eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: atec77 <"    atec77"@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CB to 10M conversion
Date: Fri, 04 Nov 2011 05:50:12 +1000
Organization: A noiseless patient Spider
Lines: 18
Message-ID: <j8ur9m$57d$2@dont-email.me>
References: <945-4EB2D68D-973@storefull-3172.bay.webtv.net>
Mime-Version: 1.0
Injection-Date: Thu, 3 Nov 2011 19:50:14 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="boEWUuaP+eHgRsXSv318Bg";
     logging-data="5357"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18kn8dntI2X73vl0ASGOm4B"
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:7.0.1) Gecko/20110929
Thunderbird/7.0.1
In-Reply-To: <945-4EB2D68D-973@storefull-3172.bay.webtv.net>
Cancel-Lock: sha1:VhxDexkFRj8zfWz3cIVf50OwnAY=
Xref: news1.google.com rec.radio.amateur.homebrew:3191
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 4/11/2011 3:59 AM, Padraigh ProAmerica wrote:
> Just acquired from an old lady her old CB transceiver. It's rather old;
> crystal controlled. Is it feasable to swap out the 27 MHz crystals and
> replace them with 10M crystals? Is there a source for these crystals?
> And would any major modifications to the rig be required?
>
> Any info would be appreciated (and yes, I hold  a Technician class
> license).
>
possible but expensive , an o2 based pll is much easier needing only a
few tracks cut and a retune

--



x
X-No-Archive: Yes




From -5802462638709110534
X-Google-Thread: fc2a5,e22b029f6c1049dd
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.42.155.2 with SMTP id s2mr14494610icw.5.1320349990597;
        Thu, 03 Nov 2011 12:53:10 -0700 (PDT)
Path: p6ni67512pbn.0!nntp.google.com!news1.google.com!news4.google.com!
feeder.news-service.com!news-transit.tcx.org.uk!nntp-feed.chiark.greenend.org.uk!
ewrotcd!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CB to 10M conversion
Date: Thu, 3 Nov 2011 15:52:02 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 48
Sender: et472@72.0.192.105
Message-ID: <Pine.LNX.4.64.1111031544320.21529@darkstar.example.net>
References: <945-4EB2D68D-973@storefull-3172.bay.webtv.net>
NNTP-Posting-Host: 72.0.192.105
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1320349987 25071 72.0.192.105 (3 Nov 2011 19:53:07 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 3 Nov 2011 19:53:07 GMT
In-Reply-To: <945-4EB2D68D-973@storefull-3172.bay.webtv.net>
Xref: news1.google.com rec.radio.amateur.homebrew:3192
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

On Thu, 3 Nov 2011, Padraigh ProAmerica wrote:

> Just acquired from an old lady her old CB transceiver. It's rather old;
> crystal controlled. Is it feasable to swap out the 27 MHz crystals and
> replace them with 10M crystals? Is there a source for these crystals?
> And would any major modifications to the rig be required?
>
```

So long as it uses a pair of crystals per channel (or one for transmit and a tuneable receiver), those are the easiest to convert. Just change crystals, and maybe a slight realignment is needed.

Of course, there was a period when the CB sets were synthesized but via multiple crystals, mixed together. Those would require more effort to move to 10M, one would have to figure out what was going on and then recalculate, and likely realignment would be more important/difficult. I don't recall anyone writing about converting those.

But if there is a pair of crystals per channel, all you need is to either scrounge up suitable crystals or go to a crystal manufacturer with information about the CB set, and they'll grind a set for you. Maybe costly at this point.

The transmit were usually overtone, the actual frequency being around 9MHz, the receive crystals would be the signal frequency minus the IF frequency (often 455KHz, but some had a higher IF), and they too were usually overtone crystals. The good thing is that since you're moving it to a ham band, you can pick any frequency within the band, the bad part is that some parts of the band are better than others in terms of activity, especially for AM, and you need to find a pair of crystals for the frequency.

There was a period when CB sets often had a tuneable receiver, either with a few crystal controlled channels for receiver or none at all, and those would be best, since you can then find any crystal that works and provides a useful frequency, without having to worry about the receive crystal taht also has to be the same frequency, but with the offset for the IF.

Michael VE2BVW

> Any info would be appreciated (and yes, I hold a Technician
class > license).
>
> --
> "History is not a spectator sport."-- Dr. Bruce Freeberg --
>
>

```
From 2565005098992172595
X-Google-Thread: 241b302a50,e22b029f6c1049dd
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.148.84 with SMTP id o20mr1388773bkv.6.1320350759104;
        Thu, 03 Nov 2011 13:05:59 -0700 (PDT)
MIME-Version: 1.0
Path: l23ni55234bkv.0!nntp.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
```

```
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 03 Nov 2011 15:05:58 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <945-4EB2D68D-973@storefull-3172.bay.webtv.net>
Subject: Re: CB to 10M conversion
Date: Thu, 3 Nov 2011 15:05:57 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6109
X-RFC2646: Format=Flowed; Original
Message-ID: <_LWdnecGteu7aS_TnZ2dnUVZ_qydnZ2d@giganews.com>
Lines: 31
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
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8cbjg3YEK8fFBVYoszCvm0wXIf689FpJ6J1Qc8bq0bwpfR0WFL/NHGQ/Bt8cu+VSqvEnSMdLgoY=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2390
Xref: news1.google.com rec.radio.amateur.homebrew:3193
```

Padraigh ProAmerica wrote:

> Just acquired from an old lady her old CB transceiver. It's rather
> old; crystal controlled. Is it feasable to swap out the 27 MHz
> crystals and replace them with 10M crystals? Is there a source for
> these crystals? And would any major modifications to the rig be
> required?
>
> Any info would be appreciated (and yes, I hold a Technician class
> license).

Yes, it's quite possible, and in fact, a series of articles was published in 73 Magazine back in the late 70s. Recently, a few kind souls scanned and made PDF files of the entire run of 73 Magazine. You can Google for 73 magazine download for places tha tthey can be downloaded. Most are Torrent downloads, and might be the most expedient way to get them. The total download is nearly 17 GB, so it's not trivial. Single issues range from 15 to 50 MB.
If you can provide the make & model of your CB, I'll check to sse if your radio was covered. I can extract and email just the article for your radio if it's covered.

Matter of fact, if you search back through the archives of this list, you'll find a number of places that you can download from. It was only a few months ago that this was discussed.
--

David
dgminala at mediacombb dot net

```
From 1028831599305428504
X-Google-Thread: fc2a5,e22b029f6c1049dd
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.42.155.2 with SMTP id s2mr14785863icw.5.1320352444489;
        Thu, 03 Nov 2011 13:34:04 -0700 (PDT)
MIME-Version: 1.0
Path: p6ni67623pbn.0!nntp.google.com!news2.google.com!news.glorb.com!news-
out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: "Geoffrey S. Mendelson" <gsm@mendelson.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CB to 10M conversion
Date: Thu, 3 Nov 2011 20:34:04 +0000 (UTC)
Organization: MGT Consulting
Lines: 21
Message-ID: <slrnjb5ui5.18d.gsm@cable.mendelson.com>
References: <945-4EB2D68D-973@storefull-3172.bay.webtv.net>
 <Pine.LNX.4.64.1111031544320.21529@darkstar.example.net>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 85.65.228.114.dynamic.barak-online.net
X-Trace: max.inside.misty.com 1320352444 5867 85.65.228.114 (3 Nov 2011 20:34:04
GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Thu, 3 Nov 2011 20:34:04 +0000 (UTC)
User-Agent: slrn/pre1.0.0-11 (Linux)
Xref: news2.google.com rec.radio.amateur.homebrew:1903
```

Michael Black wrote:

> The transmit were usually overtone, the actual frequency being around
> 9MHz, the receive crystals would be the signal frequency minus the IF
> frequency (often 455KHz, but some had a higher IF), and they too were
> usually overtone crystals. The good thing is that since you're moving it
> to a ham band, you can pick any frequency within the band, the bad part is
> that some parts of the band are better than others in terms of activity,
> especially for AM, and you need to find a pair of crystals for the
> frequency.

If it's old enough to use crystals, it probably AM only. Aren't technicians permitted on 10m cw and ssb only?

Geoff.

--
Geoffrey S. Mendelson, N3OWJ/4X1GM

My high blood pressure medicine reduces my midichlorian count. :-(

```
From -239640746493556280
X-Google-Thread: fc2a5,e22b029f6c1049dd
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.42.133.135 with SMTP id h7mr15354581ict.4.1320358173241;
        Thu, 03 Nov 2011 15:09:33 -0700 (PDT)
Path: p6ni67867pbn.0!nntp.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 03 Nov 2011 17:09:32 -0500
Date: Thu, 03 Nov 2011 22:09:31 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.23) Gecko/
20110920 Thunderbird/3.1.15
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CB to 10M conversion
References: <945-4EB2D68D-973@storefull-3172.bay.webtv.net>
<Pine.LNX.4.64.1111031544320.21529@darkstar.example.net>
<slrnjb5ui5.18d.gsm@cable.mendelson.com>
In-Reply-To: <slrnjb5ui5.18d.gsm@cable.mendelson.com>
Message-ID: <a5adne-ARdWBjC7TnZ2dnUVZ_rSdnZ2d@bright.net>
Lines: 23
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-uWm0JebykY1LPe0y1VrGOcxZytJf2IugfPuT2BkiVW2M7yP3/
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9gOzfOAzjhNlbyGzX2QBSGVNIFtVpEWaDyQvecQd1DoAoqTMvdF8hlQqzO2DCjtbr217ShyEB!
qTp2vJ4CKg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1847
Xref: news2.google.com rec.radio.amateur.homebrew:1904
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 11-3-2011 20:34, Geoffrey S. Mendelson wrote:
Aren't technicians
> permitted on 10m cw and ssb only?
>
> Geoff.
>

Correct. SSB only (American CB sets are AM unless it has SSB modes as well)....

USA Tech class emissions (10M) allowed are:
J3E Emission (AM, single sideband, suppressed carrier. Single analog channel. Telephony, voice, sound broadcasting.)

and R3E Emission (AM, single sideband, reduced or controlled carrier. Single analog channel. Telephony, voice, sound broadcasting.)

Designations can be found at
http://www.ominous-valve.com/emission.txt

N0EDV

```
From -1531656038323614139
X-Google-Thread: fc2a5,b83ad7be087e8b49,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.42.141.194 with SMTP id p2mr16196994icu.8.1320367351163;
        Thu, 03 Nov 2011 17:42:31 -0700 (PDT)
Path: p6ni68282pbn.0!nntp.google.com!news2.google.com!postnews.google.com!
x8g2000yql.googlegroups.com!not-for-mail
From: bgfbfjgg ojdhdsd <uijsbhsbchsv@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: BEST 10 HOT SEXY VIDEOS AND MASALA KISS PHOTOS
Date: Thu, 3 Nov 2011 17:36:15 -0700 (PDT)
Organization: http://groups.google.com
Lines: 35
Message-ID: <cdd541b9-5ae8-4532-9ec1-c043f4ba4d5e@x8g2000yql.googlegroups.com>
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Mime-Version: 1.0
X-Trace: posting.google.com 1320367350 8894 127.0.0.1 (4 Nov 2011 00:42:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 4 Nov 2011 00:42:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x8g2000yql.googlegroups.com; posting-host=117.199.244.81; posting-
account=VkOAtQoAAACEcOLC5-eHi1eJjZH4zy38
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.23)
 Gecko/20110920 Firefox/3.6.23,gzip(gfe)
Xref: news2.google.com rec.radio.amateur.homebrew:1905
Content-Type: text/plain; charset=ISO-8859-1
```

A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.com/

ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

ALL JOBS SITES FREE SEE

http://jobstwo.blogspot.com/

HOT VIDEOS

http://hotvideotoou.blogspot.com/2011/01/kiss-videos.html

hot lip kiss
http://hotvidos.blogspot.com/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.com/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.com/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.com/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.com/2010/07/tamil-hot-videos.html

```
From 7864200138553992377
X-Google-Thread: fc2a5,e22b029f6c1049dd
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.42.133.135 with SMTP id h7mr16742561ict.4.1320374618143;
        Thu, 03 Nov 2011 19:43:38 -0700 (PDT)
Path: p6ni68594pbn.0!nntp.google.com!news2.google.com!news1.google.com!
npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!post01.iad.highwinds-media.com!newsfe14.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.23) Gecko/20110921
Thunderbird/3.1.15
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CB to 10M conversion
References: <945-4EB2D68D-973@storefull-3172.bay.webtv.net>
In-Reply-To: <945-4EB2D68D-973@storefull-3172.bay.webtv.net>
Lines: 23
Message-ID: <tjIsq.19220$t37.834@newsfe14.iad>
X-Complaints-To: abuse@teranews.com
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NNTP-Posting-Date: Fri, 04 Nov 2011 02:43:37 UTC
Organization: TeraNews.com
Date: Thu, 03 Nov 2011 21:43:35 -0500
Xref: news2.google.com rec.radio.amateur.homebrew:1906
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 11/03/2011 12:59 PM, Padraigh ProAmerica wrote:
> Just acquired from an old lady her old CB transceiver. It's rather old;
> crystal controlled. Is it feasable to swap out the 27 MHz crystals and
> replace them with 10M crystals? Is there a source for these crystals?
> And would any major modifications to the rig be required?
>
> Any info would be appreciated (and yes, I hold a Technician class
> license).
>

Years ago I actually took an old CB set and bought a crystal for the
lower end of the CW band and used it as a cw transmitter.
Used my HQ-140-X receiver.

Worked fine. When the band was open I worked Japan on it
with an indoor whip antenna!

That was a long time ago and I forgot where I got the crystal
but it could not have been more than few bucks.

From -2788177085903175490
X-Google-Thread: fc2a5,e22b029f6c1049dd
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.42.155.2 with SMTP id s2mr18653176icw.5.1320402366472;
        Fri, 04 Nov 2011 03:26:06 -0700 (PDT)
Path: p6ni69848pbn.0!nntp.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 04 Nov 2011 05:26:06 -0500
Date: Fri, 04 Nov 2011 10:26:05 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.23) Gecko/
20110920 Thunderbird/3.1.15
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CB to 10M conversion
References: <945-4EB2D68D-973@storefull-3172.bay.webtv.net>
<tjIsq.19220$t37.834@newsfe14.iad>
In-Reply-To: <tjIsq.19220$t37.834@newsfe14.iad>

Message-ID: <quadnVKrs5UjIC7TnZ2dnUVZ_qednZ2d@bright.net>
Lines: 28
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NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-WUeuCnNbyDbpBvBHWTQWPPhqAMgEV+RLyp4iUbRraBZr+1RAFF4YEWL/9XrV1QS3mAUPicbibjBu1L3!KzpnEKdMv/bOhgbiA/W9MvBHmd+MYmC//dyo5mMUplba5uSBfYKxQG3T1TlQQUmEN20dfw35Lb5W!8PBbZsqA7w==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2371
Xref: news2.google.com rec.radio.amateur.homebrew:1907
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 11-4-2011 02:43, philo wrote:

>
>
>
> That was a long time ago and I forgot where I got the crystal but it could not have been more than few bucks.

Nowadays, a custom crystal could run over $20 from a crystal manufacturer, so if you need more than 1 or 2 crystals for the conversion, it's hardly worth it unless you are doing it because you like to tinker. Probably one of the easiest ways to get on 10M is to look for a used Ranger/RCI 10M rig or the Uniden HR-2510/2600 or even the Radio Shack 10M rig. For $75-150 you have a rig with 100 Hz tuning steps and 25-100W.

Here's a 2600 on eBay that is listed as non-working, but maybe only because the seller has no way to test it. At least one can see what it looks like, so if one comes across one at a hamfest...

http://www.ebay.com/itm/Uniden-HR2600-President-10-meter-tranceiver-radio-parts-lot-HR-2600-HR-2600-/160676316781?pt=LH_DefaultDomain_0&hash=item25690e066d

Radio Shack 10M rig
http://www.ebay.com/itm/HTX-10-Radio-Shack-10-meter-mobile-/200669429798?_trksid=p4340.m1374&_trkparms=algo%3DPI.WATCH%26its%3DC%252BS%26itu%3DUCC%26otn%3D15%26ps%3D63%26clkid%3D3954653112715236430

N0EDV

From -6208033401672507415
X-Google-Thread: fc2a5,d95748b9efc4353a,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet

```
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.42.146.136 with SMTP id j8mr734291icv.8.1320408582199;
        Fri, 04 Nov 2011 05:09:42 -0700 (PDT)
Path: p6ni70114pbn.0!nntp.google.com!news2.google.com!news.glorb.com!
feeder.erje.net!eternal-september.org!feeder.eternal-september.org!.POSTED!not-
for-mail
From: "Eric" <eric4@anywhere.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: completely disabling AGC in Cobra 142 CB?
Date: Fri, 4 Nov 2011 08:08:51 -0400
Organization: A noiseless patient Spider
Lines: 6
Message-ID: <j90km5$ahe$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Fri, 4 Nov 2011 12:09:41 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="lvz2pg+moCyoCfU+1zaAkg";
     logging-data="10798"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+1d4DoajgziLNK0k441Q+h"
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:o3qxs3Cj2Sb/HqePA8nVL2bP2MQ=
X-Priority: 3
X-MSMail-Priority: Normal
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.6109
Xref: news2.google.com rec.radio.amateur.homebrew:1908
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit

I have a need to completely disable the AGC circuit in a Cobra 142 GTL CB.
How would this be done please?

Thank you,
Eric




From -7343631360127945715
X-Google-Thread: fc2a5,e22b029f6c1049dd
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.42.155.2 with SMTP id s2mr20116062icw.5.1320417005081;
        Fri, 04 Nov 2011 07:30:05 -0700 (PDT)
Path: p6ni70476pbn.0!nntp.google.com!news2.google.com!goblin1!goblin.stu.neva.ru!
news.glorb.com!newsfeed-3001.bay.webtv.net!newssorter-3001.bay.webtv.net!not-for-
mail
From: ogrowup@webtv.net (Padraigh ProAmerica)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CB to 10M conversion
Date: Fri, 4 Nov 2011 10:28:42 -0400
Organization: WebTV Subscriber
```

Lines: 6
Message-ID: <4696-4EB3F69A-132@storefull-3171.bay.webtv.net>
References: <quadnVKrs5UjIC7TnZ2dnUVZ_qednZ2d@bright.net>
NNTP-Posting-Host: localhost.webtv.net
Mime-Version: 1.0 (WebTV)
X-WebTV-Signature: 1
     ETAuAhUAt2G3fcUoMTtjaZyUR1hDmIgUyEcCFQCzRa5fXDpguCg6/42l6c/GEJKTtw==
Xref: news2.google.com rec.radio.amateur.homebrew:1909
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
Content-Disposition: Inline

The earlier Radio Shack HTX-100 had a slightly better receiver (quieter)
and had CW as a mode- both different on the HTX-10.

--
"History is not a spectator sport."-- Dr. Bruce Freeberg --

From -5464668413922975541
X-Google-Thread: fc2a5,e22b029f6c1049dd
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.42.131.137 with SMTP id z9mr20251422ics.1.1320417487000;
        Fri, 04 Nov 2011 07:38:07 -0700 (PDT)
Path: p6ni70501pbn.0!nntp.google.com!news2.google.com!goblin2!goblin.stu.neva.ru!
news.stack.nl!cs.uu.nl!news0.firedrake.org!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CB to 10M conversion
Date: Fri, 4 Nov 2011 10:36:53 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 29
Sender: et472@220-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.1111041034550.22715@darkstar.example.net>
References: <945-4EB2D68D-973@storefull-3172.bay.webtv.net>
 <tjIsq.19220$t37.834@newsfe14.iad>
NNTP-Posting-Host: 220-215-235-64-ppp.3menatwork.com
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1320417485 8758 64.235.215.220 (4 Nov 2011 14:38:05 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 4 Nov 2011 14:38:05 GMT
In-Reply-To: <tjIsq.19220$t37.834@newsfe14.iad>
Xref: news2.google.com rec.radio.amateur.homebrew:1910
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

On Thu, 3 Nov 2011, philo wrote:

> On 11/03/2011 12:59 PM, Padraigh ProAmerica wrote:
>> Just acquired from an old lady her old CB transceiver. It's rather old;
>> crystal controlled. Is it feasable to swap out the 27 MHz crystals and

>> replace them with 10M crystals? Is there a source for these crystals?
>> And would any major modifications to the rig be required?
>>
>> Any info would be appreciated (and yes, I hold a Technician class
>> license).
>>
>
>
> Years ago I actually took an old CB set and bought a crystal for the lower
> end of the CW band and used it as a cw transmitter.
> Used my HQ-140-X receiver.
>
>
> Worked fine. When the band was open I worked Japan on it
> with an indoor whip antenna!
>

THat's why all those Heathkit Sixers did so well, when the band opened up,
very little power was needed (of course, offset by the fact that the band
wasn't always open). Ten is the same way (though antennas are longer),
there was even that Hammarlund receiver with the CB transmitter built in,
that could easily be used on 10m.

   Michael VE2BVW

From 5427014685153508334
X-Google-Thread: fc2a5,6264997ce0fd3006,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.42.146.136 with SMTP id j8mr2073981icv.8.1320419826096;
        Fri, 04 Nov 2011 08:17:06 -0700 (PDT)
Path: p6ni70614pbn.0!nntp.google.com!news1.google.com!postnews.google.com!
v8g2000vbe.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Vibrator power supply
Date: Fri, 4 Nov 2011 08:17:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 11
Message-ID: <d0069b1e-2ecf-45b7-9411-fee53ff5d635@v8g2000vbe.googlegroups.com>
NNTP-Posting-Host: 155.178.6.18
Mime-Version: 1.0
X-Trace: posting.google.com 1320419825 26301 127.0.0.1 (4 Nov 2011 15:17:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 4 Nov 2011 15:17:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v8g2000vbe.googlegroups.com; posting-host=155.178.6.18; posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLUHCNK

X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
 Trident/4.0; .NET CLR 2.0.50727),gzip(gfe)
Xref: news1.google.com rec.radio.amateur.homebrew:3202
Content-Type: text/plain; charset=ISO-8859-1

I came by what appears to be a power supply module from some old
military gear. It uses a synchronous vibrator unless my analysis of
the circuit it way off. My plan is to build a circuit to replace the
vibrator with a couple of power FETs driven by a 555 osc and a bridge
rectfier to handle rectification of the output. I was wondering if
there were any circuit designs around before I started to reinvent the
wheel. Also what freqency do they use. Seems like I heard 100Hz at one
time but I dont trust my memory on something I learned 40 years ago.
Any help would be much appreciate.

Jimmie

From -2631759833418811764
X-Google-Thread: fc2a5,d95748b9efc4353a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.42.133.135 with SMTP id h7mr20674648ict.4.1320421962561;
        Fri, 04 Nov 2011 08:52:42 -0700 (PDT)
Path: p6ni70700pbn.0!nntp.google.com!news1.google.com!postnews.google.com!
hv4g2000vbb.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: completely disabling AGC in Cobra 142 CB?
Date: Fri, 4 Nov 2011 08:37:02 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <76d5287d-d3c0-4b7a-a6a9-ba725452a09e@hv4g2000vbb.googlegroups.com>
References: <j90km5$ahe$1@dont-email.me>
NNTP-Posting-Host: 155.178.6.18
Mime-Version: 1.0
X-Trace: posting.google.com 1320421962 16027 127.0.0.1 (4 Nov 2011 15:52:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 4 Nov 2011 15:52:42 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: hv4g2000vbb.googlegroups.com; posting-host=155.178.6.18; posting-
account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLUHCNK
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
 Trident/4.0; .NET CLR 2.0.50727),gzip(gfe)
Xref: news1.google.com rec.radio.amateur.homebrew:3203
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

On Nov 4, 8:08=A0am, "Eric" <er...@anywhere.net> wrote:

```
> I have a need to completely disable the AGC circuit in a Cobra 142 GTL CB=
.
> How would this be done please?
>
> Thank you,
> Eric

Disabling AGC is usuallly required when working on the radio so most
maintenance books should have what you need for that particular radio.


Jimmie



From -5721348024224785298
X-Google-Thread: fc2a5,6264997ce0fd3006
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.42.133.135 with SMTP id h7mr22414429ict.4.1320435489085;
        Fri, 04 Nov 2011 12:38:09 -0700 (PDT)
Path: p6ni71299pbn.0!nntp.google.com!news1.google.com!npeer03.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
nx01.iad01.newshosting.com!newshosting.com!news2.euro.net!newsgate.cistron.nl!
newsgate.news.xs4all.nl!news.nosignal.org!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Vibrator power supply
Date: Fri, 4 Nov 2011 15:37:00 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 27
Sender: et472@72.0.192.102
Message-ID: <Pine.LNX.4.64.1111041533390.23296@darkstar.example.net>
References: <d0069b1e-2ecf-45b7-9411-fee53ff5d635@v8g2000vbe.googlegroups.com>
NNTP-Posting-Host: 72.0.192.102
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1320435486 479 72.0.192.102 (4 Nov 2011 19:38:06 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 4 Nov 2011 19:38:06 GMT
In-Reply-To: <d0069b1e-2ecf-45b7-9411-fee53ff5d635@v8g2000vbe.googlegroups.com>
Xref: news1.google.com rec.radio.amateur.homebrew:3204
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

On Fri, 4 Nov 2011, JIMMIE wrote:

> I came by what appears to be a power supply module from some old
> military gear. It uses a synchronous vibrator unless my analysis of
> the circuit it way off. My plan is to build a circuit to replace the
> vibrator with a couple of power FETs driven by a 555 osc and a bridge
> rectfier to handle rectification of the output. I was wondering if
> there were any circuit designs around before I started to reinvent the
> wheel. Also what freqency do they use. Seems like I heard 100Hz at one
> time but I dont trust my memory on something I learned 40 years ago.
```

> Any help would be much appreciate.
>

The earliest replacements would have been a couple of power transistors on a heatsink, with a few resistors and capacitors, relying on the existing transformer for feedback (and frequency control).

Of course a lot of early power inverters were about the same, save that they weren't built around a vibrator supply.

Look in forty year old ARRL Handbooks, I'm certain the 1971 edition (the first I ever saw) has a simple inverter that is on that level.

I'm sure some built fancier ones, but I'm sure many got by with something pretty simple. SOme small companies that deal in antique radios sell virbrator replacements.

   Michael VE2BVW

```
From -732926320147726899
X-Google-Thread: fc2a5,de709316550d6b87,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.42.133.135 with SMTP id h7mr22870454ict.4.1320439229489;
        Fri, 04 Nov 2011 13:40:29 -0700 (PDT)
Path: p6ni71472pbn.0!nntp.google.com!news1.google.com!volia.net!news2.volia.net!
feed-A.news.volia.net!news.musoftware.de!wum.musoftware.de!weretis.net!
feeder4.news.weretis.net!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Kepro Ultra-violet exposure frame for sale
Date: Fri, 04 Nov 2011 15:40:14 -0500
Organization: A noiseless patient Spider
Lines: 25
Message-ID: <j91ijf$shi$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Fri, 4 Nov 2011 20:40:15 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="femdWFrCCglzKUKHHc4IVA";
     logging-data="29234"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/6+NFQkE04XhUHL027qhfT"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.8) Gecko/
20050511 Mnenhy/0.7.2.0
X-Accept-Language: en-us
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 111104-0, 11/04/2011), Outbound message
Cancel-Lock: sha1:UJX9U3j1eAAFSzH5LIWpDNSYd14=
Xref: news1.google.com rec.radio.amateur.homebrew:3205
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
```

I have a circuit board exposure frame for sale. $100 plus

postage from zip 55082. Payment in US$ in advance by check
or money order. Sorry, no Paypal. Unpackaged weight 35 lbs.

Kepro BTX-200 ultra-violet exposure frame.

Kepro Circuit Systems Inc

12 X 16 inch exposure area.

3 or 5 lamps. Manual or 0 - 5 minute timer.

It can be viewed at:

http://home.comcast.net/~hsknoll/site/?/photos/
&PHPSESSID=29ec62ea0bf1fe4d25e318b011cf0bbf

or

http://tinyurl.com/yktwxpz   click on photo to enlarge it.

If you are interested, please send me your zip code so I can figure shipping costs.

Henry   WA0GOZ

From 721171201517437088
X-Google-Thread: fc2a5,6264997ce0fd3006
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.42.176.130 with SMTP id be2mr2773901icb.3.1320443375857;
        Fri, 04 Nov 2011 14:49:35 -0700 (PDT)
Path: p6ni71647pbn.0!nntp.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!69.16.185.16.MISMATCH!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-16.dc1.easynews.com.POSTED!not-for-mail
From: Howard Eisenhauer <howarde@NOSPAMhfx.eastlink.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Vibrator power supply
Message-ID: <bbn8b7he056hqjcbm9eig62q55qkklh65q@4ax.com>
References: <d0069b1e-2ecf-45b7-9411-fee53ff5d635@v8g2000vbe.googlegroups.com>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Lines: 22
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Fri, 04 Nov 2011 18:49:32 -0300

```
Xref: news1.google.com rec.radio.amateur.homebrew:3206
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Non-sychronous solid state replacements are avaialble here-

http://www.tubesandmore.com/

in the "Radio parts & restoration" section, p/n  P-V2015N

H.

On Fri, 4 Nov 2011 08:17:05 -0700 (PDT), JIMMIE
<JIMMIEDEE123@YAHOO.COM> wrote:

>I came by what appears to be a power supply module from some old
>military gear. It uses a synchronous vibrator unless my analysis of
>the circuit it way off. My plan is to build a circuit to replace the
>vibrator with a couple of power FETs driven by a 555 osc and a bridge
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>there were any circuit designs around before I started to reinvent the
>wheel. Also what freqency do they use. Seems like I heard 100Hz at one
>time but I dont trust my memory on something I learned 40 years ago.
>Any help would be much appreciate.
>
>Jimmie



From -6546028579249123336
X-Google-Thread: fc2a5,6264997ce0fd3006
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.42.176.130 with SMTP id be2mr2865930icb.3.1320444033784;
        Fri, 04 Nov 2011 15:00:33 -0700 (PDT)
MIME-Version: 1.0
Path: p6ni71688pbn.0!nntp.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 04 Nov 2011 17:00:33 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <d0069b1e-2ecf-45b7-9411-fee53ff5d635@v8g2000vbe.googlegroups.com>
<Pine.LNX.4.64.1111041533390.23296@darkstar.example.net>
Subject: Re: Vibrator power supply
Date: Fri, 4 Nov 2011 17:00:32 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6109
X-RFC2646: Format=Flowed; Response
Message-ID: <DZCdnaiznI4c_SnTnZ2dnUVZ_qqdnZ2d@giganews.com>
Lines: 50
```

X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-5IXHYK9O1gQnZ2rVmuFTEwV4lr5KsdGpjphJlksPdtARx/
KDNmf+HTHZnYpfmKuSx+ZX0sXObs8B2ey!29lfy2LhvPSRm27GjLPayOSZbr8HeYJTK/
CqynUT42u9Dpr2WZusftET+JLUBVAVXVGFegWGFIY=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 3458
Xref: news1.google.com rec.radio.amateur.homebrew:3207

Michael Black wrote:
> On Fri, 4 Nov 2011, JIMMIE wrote:
>
>> I came by what appears to be a power supply module from some old
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>
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>
> I'm sure some built fancier ones, but I'm sure many got by with
> something pretty simple. SOme small companies that deal in antique
> radios sell virbrator replacements.
>
>   Michael VE2BVW

Yes, there are several schematics on the web for solid state vibrator
replacements, but most are too simplistic and are prone to failure due to
unsuppressed transients destroying the semiconductors.
There is one that appears to be a good design at
http://antiqueradios.com/gallery/v/temp/VIBRA2.jpg.html. The component
values are all indicated on the schematic. The circuit can be built into a
salvaged vibrator can. Be sure to provide some method of heatsinking for
the transistors. The only drawback that I can see with this circuit is the
lack of "dead time", that is, a short time interval at the switching point
to keep both transistors from conducting at the same time. A more involved

design might be able to eliminate that problem.
This circuit is the one I would build if I were in need of a vibrator
replacement.

--
David
dgminala at mediacombb dot net

```
From -8269086853001376649
X-Google-Thread: fc2a5,6264997ce0fd3006
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.42.146.136 with SMTP id j8mr5217959icv.8.1320444385508;
        Fri, 04 Nov 2011 15:06:25 -0700 (PDT)
MIME-Version: 1.0
Path: p6ni71703pbn.0!nntp.google.com!news2.google.com!news1.google.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 04 Nov 2011 17:06:25 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <d0069b1e-2ecf-45b7-9411-fee53ff5d635@v8g2000vbe.googlegroups.com>
<Pine.LNX.4.64.1111041533390.23296@darkstar.example.net>
Subject: Re: Vibrator power supply
Date: Fri, 4 Nov 2011 17:06:24 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6109
X-RFC2646: Format=Flowed; Response
Message-ID: <3smdnTA_BP58_CnTnZ2dnUVZ_tOdnZ2d@giganews.com>
Lines: 40
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-z4pC1LMqACFilUimP1PcQujXLx4EEe812mOrauZGd3Da5DGhKX/
iMCAiPG8KBt+DvWmsNoOAkVkFNlF!/jxnnHMdG1xNJIz/EoQK/
PZCdTXQkDMkjJvTCDxUVEZ9GP9EiJ1uXRpJfe6MW2NqAQX/rgZWRYo=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2769
Xref: news2.google.com rec.radio.amateur.homebrew:1917
```

Michael Black wrote:

> On Fri, 4 Nov 2011, JIMMIE wrote:
>

>> I came by what appears to be a power supply module from some old
>> military gear. It uses a synchronous vibrator unless my analysis of
>> the circuit it way off. My plan is to build a circuit to replace the
>> vibrator with a couple of power FETs driven by a 555 osc and a bridge
>> rectfier to handle rectification of the output. I was wondering if
>> there were any circuit designs around before I started to reinvent
>> the wheel. Also what freqency do they use. Seems like I heard 100Hz
>> at one time but I dont trust my memory on something I learned 40
>> years ago. Any help would be much appreciate.
>>
> The earliest replacements would have been a couple of power
> transistors on a heatsink, with a few resistors and capacitors,
> relying on the existing transformer for feedback (and frequency
> control).
> Of course a lot of early power inverters were about the same, save
> that they weren't built around a vibrator supply.
>
> Look in forty year old ARRL Handbooks, I'm certain the 1971 edition
> (the first I ever saw) has a simple inverter that is on that level.
>
> I'm sure some built fancier ones, but I'm sure many got by with
> something pretty simple. SOme small companies that deal in antique
> radios sell virbrator replacements.
>
>   Michael VE2BVW

Here's a circuit that uses a digital gate to provide the "dead time" needed
to protect the transistors.
http://www.portabletubes.co.uk/sitefiles/ausbatt.htm

--
David
dgminala at mediacombb dot net

```
From 1448801760414613513
X-Google-Thread: fc2a5,e22b029f6c1049dd
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.42.246.3 with SMTP id lw3mr35354688icb.0.1320624644349;
        Sun, 06 Nov 2011 16:10:44 -0800 (PST)
Path: h5ni6577pba.0!nntp.google.com!news1.google.com!npeer03.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
post01.iad.highwinds-media.com!newsfe19.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.23) Gecko/20110921
Thunderbird/3.1.15
MIME-Version: 1.0
```

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CB to 10M conversion
References: <945-4EB2D68D-973@storefull-3172.bay.webtv.net>
<tjIsq.19220$t37.834@newsfe14.iad>
<Pine.LNX.4.64.1111041034550.22715@darkstar.example.net>
In-Reply-To: <Pine.LNX.4.64.1111041034550.22715@darkstar.example.net>
Lines: 39
Message-ID: <8mFtq.20287$rF5.16097@newsfe19.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Mon, 07 Nov 2011 00:10:44 UTC
Organization: TeraNews.com
Date: Sun, 06 Nov 2011 18:10:43 -0600
Xref: news1.google.com rec.radio.amateur.homebrew:3209
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 11/04/2011 09:36 AM, Michael Black wrote:
> On Thu, 3 Nov 2011, philo wrote:
>
>> On 11/03/2011 12:59 PM, Padraigh ProAmerica wrote:
>>> Just acquired from an old lady her old CB transceiver. It's rather old;
>>> crystal controlled. Is it feasable to swap out the 27 MHz crystals and
>>> replace them with 10M crystals? Is there a source for these crystals?
>>> And would any major modifications to the rig be required?
>>>
>>> Any info would be appreciated (and yes, I hold a Technician class
>>> license).
>>>
>>
>>
>> Years ago I actually took an old CB set and bought a crystal for the
>> lower end of the CW band and used it as a cw transmitter.
>> Used my HQ-140-X receiver.
>>
>>
>> Worked fine. When the band was open I worked Japan on it
>> with an indoor whip antenna!
>>
> THat's why all those Heathkit Sixers did so well, when the band opened
> up, very little power was needed (of course, offset by the fact that the
> band wasn't always open). Ten is the same way (though antennas are
> longer), there was even that Hammarlund receiver with the CB transmitter
> built in, that could easily be used on 10m.
>
>
> Michael VE2BVW

Don't know why but for whatever reason I still recall the HQ-105-TR

The xmtr was for the CB band but I am sure it could have been usable on
10 meters

Anyway, back in the old days 10 meter AM was great!

```
From -3885729652449168235
X-Google-Thread: fc2a5,6264997ce0fd3006
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.42.131.137 with SMTP id z9mr38194362ics.1.1320625020175;
        Sun, 06 Nov 2011 16:17:00 -0800 (PST)
Path: h5ni6593pba.0!nntp.google.com!news2.google.com!npeer02.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
post01.iad.highwinds-media.com!newsfe06.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.23) Gecko/20110921
Thunderbird/3.1.15
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Vibrator power supply
References: <d0069b1e-2ecf-45b7-9411-fee53ff5d635@v8g2000vbe.googlegroups.com>
In-Reply-To: <d0069b1e-2ecf-45b7-9411-fee53ff5d635@v8g2000vbe.googlegroups.com>
Lines: 21
Message-ID: <%rFtq.8528$zp4.6486@newsfe06.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Mon, 07 Nov 2011 00:16:59 UTC
Organization: TeraNews.com
Date: Sun, 06 Nov 2011 18:16:56 -0600
Xref: news2.google.com rec.radio.amateur.homebrew:1919
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 11/04/2011 10:17 AM, JIMMIE wrote:

> I came by what appears to be a power supply module from some old
> military gear. It uses a synchronous vibrator unless my analysis of
> the circuit it way off. My plan is to build a circuit to replace the
> vibrator with a couple of power FETs driven by a 555 osc and a bridge
> rectfier to handle rectification of the output. I was wondering if
> there were any circuit designs around before I started to reinvent the
> wheel. Also what freqency do they use. Seems like I heard 100Hz at one
> time but I dont trust my memory on something I learned 40 years ago.
> Any help would be much appreciate.
>
> Jimmie

I believe that military equipment was 400 hz...

(if so, the xfmr would not be usable at 60hz)

If it's in working condition it would be easy enough to check.

```
From 3101039618966733462
X-Google-Thread: 11480d,ad5014f9abc607ad,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,ad5014f9abc607ad,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,ad5014f9abc607ad,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid7221ecd0f7,gid241b302a50,gide721ae2bf6,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.151.81 with SMTP id b17mr2886926bkw.3.1320649502649;
        Sun, 06 Nov 2011 23:05:02 -0800 (PST)
MIME-Version: 1.0
Path: l23ni1523bkv.0!nntp.google.com!news2.google.com!goblin2!goblin.stu.neva.ru!
newsfeed1.swip.net!news.glorb.com!news-out.readnews.com!news-xxxfer.readnews.com!
panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1317967500@panix.com>
Followup-To: poster
Date: 7 Nov 2011 02:05:01 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 10 Dec 2011 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1320649501@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1320649501 21393 166.84.1.2 (7 Nov 2011 07:05:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 7 Nov 2011 07:05:01 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: news2.google.com rec.radio.amateur.antenna:10065 rec.radio.amateur.dx:704
rec.radio.amateur.equipment:1088 rec.radio.amateur.homebrew:1920
rec.radio.amateur.misc:2477 rec.radio.amateur.policy:9834 rec.radio.info:1930

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/
```

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |
rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

From 8085362201407967860
X-Google-Thread: fc2a5,24beac2d117fc5f1,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.50.169 with SMTP id d9mr1620397pbo.0.1320715267740;
        Mon, 07 Nov 2011 17:21:07 -0800 (PST)
Path: h5ni10656pba.0!nntp.google.com!news1.google.com!postnews.google.com!w20g2000prc.googlegroups.com!not-for-mail
From: bgfbfjgg ojdhdsd <uijsbhsbchsv@gmail.com>

Newsgroups: rec.radio.amateur.homebrew
Subject: HOT SEXY VIDEOS CHECK IT FOR KISS PHOTOS
Date: Mon, 7 Nov 2011 17:21:06 -0800 (PST)
Organization: http://groups.google.com
Lines: 47
Message-ID: <571c99f5-632d-4d43-8131-2d6c62ecfe3d@w20g2000prc.googlegroups.com>
NNTP-Posting-Host: 117.199.240.217
Mime-Version: 1.0
X-Trace: posting.google.com 1320715267 4665 127.0.0.1 (8 Nov 2011 01:21:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 8 Nov 2011 01:21:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w20g2000prc.googlegroups.com; posting-host=117.199.240.217;
posting-account=VkOAtQoAAACEcOLC5-eHi1eJjZH4zy38
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.23)
Gecko/20110920 Firefox/3.6.23,gzip(gfe)
Xref: news1.google.com rec.radio.amateur.homebrew:3212
Content-Type: text/plain; charset=ISO-8859-1

HOT VIDEOS
kiss videos
http://videosonblog.blogspot.com/2010/11/kiss-videos.html
bed room videos
http://videosonblog.blogspot.com/2010/11/bed-room-videos.html
masala videos
http://videosonblog.blogspot.com/2010/11/masala-videos.html
romantic videos
http://videosonblog.blogspot.com/2010/11/romantic-videos.html

HOT PHOTOS
PHOTOS
http://photostwo2u.blogspot.com/2010/09/photos.html
HOT HOT PHOTOS
http://photostwo2u.blogspot.com/2010/09/photos-2.html
SEXY PHOTOS
http://photostwo2u.blogspot.com/2010/09/photos-3.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

```
From 5332749117953784705
X-Google-Thread: fc2a5,c61e0605c50be8b7,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.0.170 with SMTP id 10mr433746pbf.2.1320761046816;
        Tue, 08 Nov 2011 06:04:06 -0800 (PST)
Path: h5ni12738pba.0!nntp.google.com!news1.google.com!postnews.google.com!
g27g2000pro.googlegroups.com!not-for-mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT ACTRESS PHOTOS AND VIDEOS
Date: Tue, 8 Nov 2011 06:04:06 -0800 (PST)
Organization: http://groups.google.com
Lines: 63
Message-ID: <81614775-f3bb-4778-a57c-8b19e432b33e@g27g2000pro.googlegroups.com>
NNTP-Posting-Host: 117.199.254.141
Mime-Version: 1.0
X-Trace: posting.google.com 1320761046 21089 127.0.0.1 (8 Nov 2011 14:04:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 8 Nov 2011 14:04:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g27g2000pro.googlegroups.com; posting-host=117.199.254.141;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.23)
 Gecko/20110920 Firefox/3.6.23,gzip(gfe)
Xref: news1.google.com rec.radio.amateur.homebrew:3213
Content-Type: text/plain; charset=ISO-8859-1
```

FOR GOOD JOBS SITES TO YOU
http://goodjobssites.blogspot.com/

HOT KATRINA KAIF PHOTOS
http://actressgallery-kalyani.blogspot.com/2011/09/katrina-kaif.html
AISHWARYA RAI HOT HQ PHOTO STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/aishwarya-rai.html
ASIN HOT PHOTO GALLERY
http://actressgallery-kalyani.blogspot.com/2011/09/asin.html
SAKUNI MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/10/sakuni-movie-stills.html
7TH SENSE MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/10/7th-sense-movie-stills.html
MOGUDU MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/mogudu-movie-stills.html
HANSIKA MATOWNI LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/hansika-motwani.html
KAJAL AGARWAL HOT PHOTOS
http://actressgallery-kalyani.blogspot.com/2011/09/kajal-agarwal.html
TAMANNA SIRUTHAI HOT MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/siruthai-movie-stills.html
SNEHA HOT GOA MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/goa-movie-stills.html

FOR ONLY HOT GUYS SEE THIS
TRISHA HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/trisha-hot.html
TAMANNA HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/tamanna-hot.html
PRIYAMANI HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/09/priyamani-hot.html
KAJAL AGARWAL LATEST HOT WITHOUT TOP
http://hotactress-kalyani.blogspot.com/2011/08/kajal-agarwal-hot-photos.html
SAMANTHA LATEST HOT STILLS
http://hotactress-kalyani.blogspot.com/2011/09/samantha-hot.html
SNEHA ULLAL HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/10/sneha-ullal-hot.html
ANJALI HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/10/anjali-hot.html
HANSIKA MOTWANI HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/10/hansika-motwani-hot.html
PRANITHA LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/09/pranitha-hot.html
HOT KATRINAKAIF WALLPAPERS
http://hotactress-kalyani.blogspot.com/2011/08/katrina-kaif-hot.html
HOT MALLU ACTRESS BHAMA
http://hotactress-kalyani.blogspot.com/2011/09/bhama-hot.html
TOLLYWOOD HOT ACTRESSES
http://hotactress-kalyani.blogspot.com/2011/08/hot-actrsess.html
SONAKSHI SINHA HOT PHOTOS

http://hotactress-kalyani.blogspot.com/2011/09/sonakshi-sinha-hot.html
PRIYANKA CHOPRA LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/priyanka-chopra-hot.html
LATEST   AMISHA PATEL HOT PICS
http://hotactress-kalyani.blogspot.com/2011/08/amisha-patel-hot.html
TAPSEE DIFFERENT STILLS
http://hotactress-kalyani.blogspot.com/2011/08/tapsee-hot.html

```
From -1318786350560637987
X-Google-Thread: 241b302a50,4bb3b096e079710a,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.0.170 with SMTP id 10mr4967419pbf.2.1320909758830;
        Wed, 09 Nov 2011 23:22:38 -0800 (PST)
MIME-Version: 1.0
Path: h5ni20831pba.0!nntp.google.com!news1.google.com!npeer03.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
nntp.club.cc.cmu.edu!feeder.erje.net!eternal-september.org!feeder.eternal-
september.org!news.eternal-september.org!.POSTED!not-for-mail
From: davidmylastname@acm.org (David Griffith)
Newsgroups: rec.radio.amateur.homebrew
Subject: seeking modern catalog of vacuum tubes
Date: Thu, 10 Nov 2011 07:21:34 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 9
Message-ID: <j9fu1u$12f$1@frotz.eternal-september.org>
Injection-Date: Thu, 10 Nov 2011 07:21:34 +0000 (UTC)
Injection-Info: frotz.eternal-september.org; posting-
host="mCLJcz4XpmNhzktfzHOyyw";
     logging-data="1103"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/ZDN1ZcWcpMSVlMvp1xspS"
User-Agent: tin/1.9.6-20100522 ("Lochruan") (UNIX) (Linux/2.6.32-5-686 (i686))
Cancel-Lock: sha1:wjm4JQIb8WLN3f0EGMrXY4dIrug=
Xref: news1.google.com rec.radio.amateur.homebrew:3214
```

Is there such thing as a modern databook or catalog of currently-produced vacuum tubes? I'm tinkering with the idea of making a modern tube broadcast AM receiver that I can run all the time without thinking "gee, I'm going to pay through the nose for more tubes when the time comes".

--
David Griffith
davidmylastname@acm.org   <--- Put my last name where it belongs

```
From 8970910302325283459
X-Google-Thread: fc2a5,4bb3b096e079710a
X-Google-NewGroupId: yes
```

```
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.30.34 with SMTP id p2mr6083279pbh.4.1320936598026;
        Thu, 10 Nov 2011 06:49:58 -0800 (PST)
Path: h5ni23010pba.0!nntp.google.com!news1.google.com!news.glorb.com!
feeder.erje.net!eternal-september.org!feeder.eternal-september.org!.POSTED!not-
for-mail
From: highlandham <highlandham.nospam@rfburns.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking modern catalog of vacuum tubes
Date: Thu, 10 Nov 2011 14:49:56 +0000
Organization: A noiseless patient Spider
Lines: 16
Message-ID: <j9goal$j1r$1@dont-email.me>
References: <j9fu1u$12f$1@frotz.eternal-september.org>
Mime-Version: 1.0
Injection-Date: Thu, 10 Nov 2011 14:49:57 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="I0uC8w3zWcnkqevM8n+v2g";
     logging-data="19515"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+vONv3OEvX0ExBhK3+QrzxSMk6aLLOx/M="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.23) Gecko/20110922
Thunderbird/3.1.15
In-Reply-To: <j9fu1u$12f$1@frotz.eternal-september.org>
Cancel-Lock: sha1:mAMTSsJjLFPjycs/wlk1AbcN7NY=
Xref: news1.google.com rec.radio.amateur.homebrew:3215
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 10/11/11 07:21, David Griffith wrote:
> Is there such thing as a modern databook or catalog of
> currently-produced vacuum tubes?  I'm tinkering with the idea of making
> a modern tube broadcast AM receiver that I can run all the time without
> thinking "gee, I'm going to pay through the nose for more tubes when the
> time comes".
>
=====================================
The data sheets of most currently-produces vacuum tubes can be found on
the Internet .Just type into your favourite search engine :
vacuum tube <model nr>
Nowadays most info on whatever is available on-line.

Good Luck with your (future) home-brew receiver.

Frank   GM0CSZ / KN6WH


From -3907187860921291406
X-Google-Thread: fc2a5,4bb3b096e079710a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.73.233 with SMTP id o9mr6175103pbv.8.1320939094650;
        Thu, 10 Nov 2011 07:31:34 -0800 (PST)
```

Path: h5ni23212pba.0!nntp.google.com!news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!news-transit.tcx.org.uk!cs.uu.nl!news0.firedrake.org!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking modern catalog of vacuum tubes
Date: Thu, 10 Nov 2011 10:30:15 -0500
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 28
Sender: et472@218-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.1111101025040.32336@darkstar.example.net>
References: <j9fu1u$12f$1@frotz.eternal-september.org>
NNTP-Posting-Host: 218-215-235-64-ppp.3menatwork.com
Mime-Version: 1.0
X-Trace: theodyn.ncf.ca 1320939093 6103 64.235.215.218 (10 Nov 2011 15:31:33 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 10 Nov 2011 15:31:33 GMT
In-Reply-To: <j9fu1u$12f$1@frotz.eternal-september.org>
Xref: news1.google.com rec.radio.amateur.homebrew:3216
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

On Thu, 10 Nov 2011, David Griffith wrote:

> Is there such thing as a modern databook or catalog of
> currently-produced vacuum tubes? I'm tinkering with the idea of making
> a modern tube broadcast AM receiver that I can run all the time without
> thinking "gee, I'm going to pay through the nose for more tubes when the
> time comes".
>

Pick a popular tube and build around it.

Was it the Conar receiver that used only 6U8s? Something like that, which of course has the advantage of not requiring a bunch of different tubes.

A double triode is bound to be easy to get still, they were so common. A 7360 was too exotic, it didn't appear in any consumer equipment (though that sort of tube did appear in some tv sets, though I'm not sure enough that decades later there'd be a lot of stock).

It's interesting to contrast tubes with semiconductors. With tubes, one tried to minimize the number of active elements, since they used up so much power (in the filament) and space. With transistors, and even more so with ICs, each stage could have loads of active devices, it was a different method of design, allowed because the transistors were small and low power. So a dual triode for instance, might seem lacking, but what could you build if you were willing to use multiple tubes per stage?

    Michael VE2BVW

From -4254550046989290361
X-Google-Thread: fc2a5,4bb3b096e079710a

```
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.50.169 with SMTP id d9mr9982983pbo.0.1321026522853;
        Fri, 11 Nov 2011 07:48:42 -0800 (PST)
Path: h5ni30274pba.0!nntp.google.com!news1.google.com!npeer02.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
post01.iad.highwinds-media.com!newsfe04.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.23) Gecko/20110921
Thunderbird/3.1.15
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking modern catalog of vacuum tubes
References: <j9fu1u$12f$1@frotz.eternal-september.org>
In-Reply-To: <j9fu1u$12f$1@frotz.eternal-september.org>
Lines: 12
Message-ID: <psbvq.31062$vg7.12114@newsfe04.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Fri, 11 Nov 2011 15:47:33 UTC
Organization: TeraNews.com
Date: Fri, 11 Nov 2011 09:47:33 -0600
Xref: news1.google.com rec.radio.amateur.homebrew:3217
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 11/10/2011 01:21 AM, David Griffith wrote:
> Is there such thing as a modern databook or catalog of
> currently-produced vacuum tubes?  I'm tinkering with the idea of making
> a modern tube broadcast AM receiver that I can run all the time without
> thinking "gee, I'm going to pay through the nose for more tubes when the
> time comes".
>


just put  "vacuum tube catalog" into a Google search

plenty of hits



From -5541555541053452376
X-Google-Thread: fc2a5,4bb3b096e079710a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.35.131 with SMTP id h3mr9509774pbj.1.1321035724957;
        Fri, 11 Nov 2011 10:22:04 -0800 (PST)
MIME-Version: 1.0
Path: h5ni31018pba.0!nntp.google.com!news1.google.com!volia.net!news2.volia.net!
feed-A.news.volia.net!news.musoftware.de!wum.musoftware.de!feeder.erje.net!
eternal-september.org!feeder.eternal-september.org!news.eternal-
september.org!.POSTED!not-for-mail
From: davidmylastname@acm.org (David Griffith)
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking modern catalog of vacuum tubes
Date: Fri, 11 Nov 2011 18:22:04 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 26
Message-ID: <j9jp4c$fn$1@frotz.eternal-september.org>
References: <j9fu1u$12f$1@frotz.eternal-september.org>
<Pine.LNX.4.64.1111101025040.32336@darkstar.example.net>
Injection-Date: Fri, 11 Nov 2011 18:22:04 +0000 (UTC)
Injection-Info: frotz.eternal-september.org; posting-
host="mCLJcz4XpmNhzktfzHOyyw";
     logging-data="503"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/7EReeipgmxzOZGkdmIbQF"
User-Agent: tin/1.9.6-20100522 ("Lochruan") (UNIX) (Linux/2.6.32-5-686 (i686))
Cancel-Lock: sha1:/lKT4AVxAdc9rE+PD2zioyVHtjY=
Xref: news1.google.com rec.radio.amateur.homebrew:3218

Michael Black <et472@ncf.ca> wrote:
> On Thu, 10 Nov 2011, David Griffith wrote:

>> Is there such thing as a modern databook or catalog of
>> currently-produced vacuum tubes?  I'm tinkering with the idea of making
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> A double triode is bound to be easy to get still, they were so common.  A
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> that sort of tube did appear in some tv sets, though I'm not sure enough
> that decades later there'd be a lot of stock).

Double triodes, particularly 12ax7, I see are currently manufactured and
easily available.  Can a superheterodyne receiver be made from just
that?  Anyone have any useful schematics?

--
David Griffith
davidmylastname@acm.org   <--- Put my last name where it belongs


From -1545718965006291713
X-Google-Thread: fc2a5,4bb3b096e079710a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.35.201 with SMTP id k9mr1000049pbj.0.1321054546541;
        Fri, 11 Nov 2011 15:35:46 -0800 (PST)
Path: h5ni32560pba.0!nntp.google.com!news2.google.com!news1.google.com!
```

```
npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!spln!extra.newsguy.com!newsp.newsguy.com!news1
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking modern catalog of vacuum tubes
Date: Fri, 11 Nov 2011 19:35:15 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 26
Message-ID: <j9kbg001gj4@news1.newsguy.com>
References: <j9fu1u$12f$1@frotz.eternal-september.org>
<Pine.LNX.4.64.1111101025040.32336@darkstar.example.net>
<j9jp4c$fn$1@frotz.eternal-september.org>
NNTP-Posting-Host: pf222e29e54fbbc2b1f0d86e2a5a13fe45a5c400699c6208b.newsdawg.com
Mime-Version: 1.0
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
In-Reply-To: <j9jp4c$fn$1@frotz.eternal-september.org>
X-Antivirus: avast! (VPS 111111-0, 11/11/2011), Outbound message
X-Antivirus-Status: Clean
Xref: news2.google.com rec.radio.amateur.homebrew:1928
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

David Griffith wrote:
> Michael Black <et472@ncf.ca> wrote:
>> On Thu, 10 Nov 2011, David Griffith wrote:
>
>>> Is there such thing as a modern databook or catalog of
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>>> thinking "gee, I'm going to pay through the nose for more tubes when the
>>> time comes".
>
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> that?  Anyone have any useful schematics?
>
I think you are headed in the wrong direction.  You can build a nice
superhet based on the original designs from the 40s and 50s in the RCA
tube manual.  All of these tubes are still very common, not expensive,
and available as NOS.

There was a fellow, I think his name was Bob DeRocca, who published a
refined 8-tube superhet on the rar+p group.  Might be able to dig up
those threads via Google Groups search.  I saved the schematic but have
no idea what filename I saved it under!

-Bill



From 3685897790844722874
X-Google-Thread: fc2a5,4bb3b096e079710a
X-Google-NewGroupId: yes
```

```
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.15.105 with SMTP id w9mr7754505pbc.7.1321086608029;
        Sat, 12 Nov 2011 00:30:08 -0800 (PST)
MIME-Version: 1.0
Path: h5ni35241pba.0!nntp.google.com!news2.google.com!goblin2!goblin.stu.neva.ru!
weretis.net!feeder4.news.weretis.net!eternal-september.org!feeder.eternal-
september.org!news.eternal-september.org!.POSTED!not-for-mail
From: davidmylastname@acm.org (David Griffith)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking modern catalog of vacuum tubes
Date: Sat, 12 Nov 2011 08:30:04 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 39
Message-ID: <j9laqc$ece$1@frotz.eternal-september.org>
References: <j9fu1u$12f$1@frotz.eternal-september.org>
<Pine.LNX.4.64.1111101025040.32336@darkstar.example.net>
<j9jp4c$fn$1@frotz.eternal-september.org> <j9kbg001gj4@news1.newsguy.com>
Injection-Date: Sat, 12 Nov 2011 08:30:04 +0000 (UTC)
Injection-Info: frotz.eternal-september.org; posting-
host="mCLJcz4XpmNhzktfzHOyyw";
     logging-data="14734"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19Lfwk1CmD1PSvyb59AKkQq"
User-Agent: tin/1.9.6-20100522 ("Lochruan") (UNIX) (Linux/2.6.32-5-686 (i686))
Cancel-Lock: sha1:dFHobXZ/ng2U6DmXZPLdpOLjkzA=
Xref: news2.google.com rec.radio.amateur.homebrew:1929

Bill M <radioexray@geeeemail.com> wrote:
> David Griffith wrote:
>> Michael Black <et472@ncf.ca> wrote:
>>> On Thu, 10 Nov 2011, David Griffith wrote:
>>
>>>> Is there such thing as a modern databook or catalog of
>>>> currently-produced vacuum tubes?  I'm tinkering with the idea of making
>>>> a modern tube broadcast AM receiver that I can run all the time without
>>>> thinking "gee, I'm going to pay through the nose for more tubes when the
>>>> time comes".
>>
>> Double triodes, particularly 12ax7, I see are currently manufactured and
>> easily available.  Can a superheterodyne receiver be made from just
>> that?  Anyone have any useful schematics?
>>
> I think you are headed in the wrong direction.  You can build a nice
> superhet based on the original designs from the 40s and 50s in the RCA
> tube manual.  All of these tubes are still very common, not expensive,
> and available as NOS.

> There was a fellow, I think his name was Bob DeRocca, who published a
> refined 8-tube superhet on the rar+p group.  Might be able to dig up
> those threads via Google Groups search.  I saved the schematic but have
> no idea what filename I saved it under!

I think what I'm trying to accomplish is establishing some sort of
```

barrier against the inevitable day when the supply of good cheap tubes
is gone and what we're left with is mostly guitar amp tubes.

I found a Bob LeRocca on rar+p who appears to be the one you're talking
about, but I can't seem to locate any mention of an 8-tube superhet.
I'll stick my head in there and see if anyone remembers this.

Still, my question remains: can one build a decent superhet radio out of
nothing but 12ax7 dual triodes?

--
David Griffith
davidmylastname@acm.org   <--- Put my last name where it belongs

```
From 8403795788009174052
X-Google-Thread: fc2a5,d5aa99bc2ba7629a,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.0.170 with SMTP id 10mr13098970pbf.2.1321092117003;
        Sat, 12 Nov 2011 02:01:57 -0800 (PST)
MIME-Version: 1.0
Path: h5ni35695pba.0!nntp.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 12 Nov 2011 04:01:56 -0600
Newsgroups: rec.radio.amateur.homebrew
Subject: uae of mimic citcuits as post mixer amps.
From: clifford wright <c.c.wright@paradise.net.nz>
Organization: Wright retro radio
Message-ID: <Xns9F9BEA4B1B3B0crite40@216.196.97.131>
User-Agent: Xnews/5.04.25
Date: Sat, 12 Nov 2011 04:01:56 -0600
Lines: 5
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-NbJb5bKtHdmZrbn7SnY33L5fH76ISsn0AYJQqiReajzJHSHZWWh/
V4Dyz6Cv6+sgalMoB70MTu0FEmg!MQwSiiugDFooUQoFBwWsdhAb/
+btjKo2kQTdDH0Ok843FxebCA+M+pW+2djbatR6NJY=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1145
Xref: news2.google.com rec.radio.amateur.homebrew:1930
```

Anyone had experience of using mimic's as post diode balanced mixer
amplifiers?
In theory they look OK, 50 Ohms in and out and good high level signal
handling. This is to be for a 45 MHz first IF.
Cliff Wright ZL1BDA

```
From 993284618829339931
X-Google-Thread: fc2a5,6264997ce0fd3006
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.35.201 with SMTP id k9mr2703690pbj.0.1321092526878;
        Sat, 12 Nov 2011 02:08:46 -0800 (PST)
MIME-Version: 1.0
Path: h5ni35727pba.0!nntp.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 12 Nov 2011 04:08:45 -0600
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Vibrator power supply
From: clifford wright <c.c.wright@paradise.net.nz>
References: <d0069b1e-2ecf-45b7-9411-fee53ff5d635@v8g2000vbe.googlegroups.com>
<%rFtq.8528$zp4.6486@newsfe06.iad>
Organization: Wright retro radio
Message-ID: <Xns9F9BEB733F2FDcrite40@216.196.97.131>
User-Agent: Xnews/5.04.25
Date: Sat, 12 Nov 2011 04:08:45 -0600
Lines: 37
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-DZgHEtZYhnNbA/ZlGI6/
BNJoqtvayuC4wREwgj82F6Gde+rkX8LEq5kN895mN2Ps83nsfTZyXnRZLC4!cP/
DKyNFLkDxjQspUOmvruHq0h0ahTJ7oFgkiWYrC0gE/k4n0zOk7KXLtgCuIGQYpZI=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2612
Xref: news2.google.com rec.radio.amateur.homebrew:1931

philo <philo@privacy.not> wrote in news:%rFtq.8528$zp4.6486@newsfe06.iad:

> On 11/04/2011 10:17 AM, JIMMIE wrote:
>> I came by what appears to be a power supply module from some old
>> military gear. It uses a synchronous vibrator unless my analysis of
>> the circuit it way off. My plan is to build a circuit to replace the
>> vibrator with a couple of power FETs driven by a 555 osc and a bridge
>> rectfier to handle rectification of the output. I was wondering if
>> there were any circuit designs around before I started to reinvent the
>> wheel. Also what freqency do they use. Seems like I heard 100Hz at one
>> time but I dont trust my memory on something I learned 40 years ago.
>> Any help would be much appreciate.
>>
>> Jimmie
>
>
```

> I believe that military equipment was 400 hz...
>
> (if so, the xfmr would not be usable at 60hz)
>
> If it's in working condition it would be easy enough to check.
>
>
>

Well the 400 Hz is a bit odd for a vibrator pack.
Are you sure that the supply wasn't designed for 400Hz AC?
That could be explained by use in Aircraft where 400HZ supply
is quite common. Most mechanical vibrators actually do run at
about 100 Hz. I have built solid state replacement for several
and they all had that in common.
Of course the builder could have used a 400 Hz transformer, but that
wouldn't match a normal vibrator at all.
BTW the old Marconi spark transmitters (like on the Titanic) used a 400HZ
tuned keying relay to protect the operator. Just like a modern zero
crossing switch!
Cliff wright ZL1BDA ex G3NIA

From 8533456402965248305
X-Google-Thread: fc2a5,d5aa99bc2ba7629a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.0.170 with SMTP id 10mr13648413pbf.2.1321104547129;
        Sat, 12 Nov 2011 05:29:07 -0800 (PST)
MIME-Version: 1.0
Path: h5ni36707pba.0!nntp.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-02.dc1.easynews.com.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: uae of mimic citcuits as post mixer amps.
From: Doug White <gwhite@alum.mit.edu>
References: <Xns9F9BEA4B1B3B0crite40@216.196.97.131>
Message-ID: <Xns9F9B56556729Bgwhitealummitedu@69.16.186.7>
User-Agent: Xnews/2009.05.01
Lines: 21
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Sat, 12 Nov 2011 13:29:06 GMT
Xref: news2.google.com rec.radio.amateur.homebrew:1932

clifford wright <c.c.wright@paradise.net.nz> wrote in
news:Xns9F9BEA4B1B3B0crite40@216.196.97.131:

> Anyone had experience of using mimic's as post diode balanced mixer

> amplifiers?
> In theory they look OK, 50 Ohms in and out and good high level signal
> handling. This is to be for a 45 MHz first IF.
> Cliff Wright ZL1BDA

Assuming you have a decent filter after the mixer to extract the band you want, the MMIC amps work fine. However, I'd be wary of any recent Avago parts. The data sheets can be very inaccurate, and the parts may not behave as advertised. I've had very good luck with NEC, and a lot of MiniCircuits amps are decent as well. RFMD also has some nice parts. The Avago parts that were actually designed when they were Agilent (or better yet HP) are also good. If the parts are advertised as 50 Ohms in & 50 Ohms out, there is a lot less to go wrong. The ones that require custom matching networks take more care to get running right because of circuit & component parasitics.

Doug White

From -3386691245605819047
X-Google-Thread: fc2a5,d5aa99bc2ba7629a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.59.229 with SMTP id c5mr13812578pbr.6.1321108619490;
        Sat, 12 Nov 2011 06:36:59 -0800 (PST)
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Date: Sat, 12 Nov 2011 14:36:56 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.23) Gecko/20110920 Thunderbird/3.1.15
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Subject: Re: uae of mimic citcuits as post mixer amps.
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
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X-Original-Bytes: 3118
Xref: news2.google.com rec.radio.amateur.homebrew:1933

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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
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On 11-12-2011 13:29, Doug White wrote:
> clifford wright<c.c.wright@paradise.net.nz> wrote in
> news:Xns9F9BEA4B1B3B0crite40@216.196.97.131:
>
>> Anyone had experience of using mimic's as post diode balanced mixer
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>> In theory they look OK, 50 Ohms in and out and good high level signal
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>> Cliff Wright ZL1BDA
>
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> yet HP) are also good. If the parts are advertised as 50 Ohms in& 50 Ohms
> out, there is a lot less to go wrong. The ones that require custom
> matching networks take more care to get running right because of circuit&
> component parasitics.
>
> Doug White

When using the MiniCircuit MMICs, I recommend using the "optional" choke between the device and its biasing resistor (as shown on device datasheets). Without it, you can lose a few dB of gain. The value is not critical. At 45 MHz, 5 or 6 turns through a VHF ferrite bead should be enough. The MAR-4 is a decent choice unless you need more gain or output level. The datasheets show gain and max power out (P1dB)...if you want it to be linear, stay below that point. If you know the level at 45 MHz and the level you want out of the MMIC, you can place a simple resistive PI or T attenuator between your 45 MHz source and the MMIC, then the output of the MMIC would be the level arriving at the MMIC plus it's associated gain.
http://www.minicircuits.com

N0EDV

```
From 801743200654538469
X-Google-Thread: fc2a5,d5aa99bc2ba7629a
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X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.28.135 with SMTP id b7mr7307504pbh.8.1321174362447;
        Sun, 13 Nov 2011 00:52:42 -0800 (PST)
Path: h5ni42514pba.0!nntp.google.com!news2.google.com!postnews.google.com!
o5g2000yqa.googlegroups.com!not-for-mail
From: genadiz <mgs2001@pochtamt.ru>
```

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Newsgroups: rec.radio.amateur.homebrew
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Date: Sun, 13 Nov 2011 00:52:42 -0800 (PST)
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References: <Xns9F9BEA4B1B3B0crite40@216.196.97.131>
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Mime-Version: 1.0
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 Trident/4.0; EasyBits GO v1.0; InfoPath.1; .NET CLR 3.0.4506.2152; .NET CLR
 3.5.30729; .NET4.0C; .NET CLR 1.1.4322; .NET4.0E; .NET CLR 2.0.50727),gzip(gfe)
Xref: news2.google.com rec.radio.amateur.homebrew:1934
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

On Nov 12, 2:01=A0pm, clifford wright <c.c.wri...@paradise.net.nz>
wrote:
> Anyone had experience of using mimic's as post diode balanced mixer
> amplifiers?
> In theory they look OK, 50 Ohms in and out and good high level signal
> handling. This is to be for a 45 MHz first IF.
> Cliff Wright ZL1BDA

Hello.
I'm succesfully use M/A-COM MAAMSS0017 and MCL GALI-6F.
Very important element is a 2 dB attenuator (for example, "T" of 5.6,
220 and 5.6 OHms) before XTAL filters.


From 3735051516264002253
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X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
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o9g2000vbc.googlegroups.com!not-for-mail
From: genadiz <mgs2001@pochtamt.ru>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: uae of mimic citcuits as post mixer amps.
Date: Sun, 13 Nov 2011 01:10:16 -0800 (PST)
Organization: http://groups.google.com
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Lines: 9
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Complaints-To: groups-abuse@google.com
Injection-Info: o9g2000vbc.googlegroups.com; posting-host=188.134.5.254; posting-
account=zgxCzAoAAAAyXxwxDIXc82dvvxgyolOq
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X-Google-Web-Client: true
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 3.5.30729; .NET4.0C; .NET CLR 1.1.4322; .NET4.0E; .NET CLR 2.0.50727),gzip(gfe)
Xref: news1.google.com rec.radio.amateur.homebrew:3226
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

 =A0If you know the level
> at 45 MHz and the level you want out of the MMIC, you can place a simple
> resistive PI or T attenuator between your 45 MHz source and the MMIC,
> then the output of the MMIC would be the level arriving at the MMIC plus
> it's associated gain.http://www.minicircuits.com
>
> N0EDV

Is a bad idea. Atttenuation before MMIC invrease NF of receiever.


From -3750039988054681615
X-Google-Thread: 241b302a50,d5aa99bc2ba7629a
X-Google-Attributes: gid241b302a50,public,usenet
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        Sun, 13 Nov 2011 01:20:36 -0800 (PST)
Path: l23ni35974bkv.0!nntp.google.com!news1.google.com!postnews.google.com!
s5g2000vbe.googlegroups.com!not-for-mail
From: genadiz <mgs2001@pochtamt.ru>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: uae of mimic citcuits as post mixer amps.
Date: Sun, 13 Nov 2011 01:03:13 -0800 (PST)
Organization: http://groups.google.com
Lines: 6
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 3.5.30729; .NET4.0C; .NET CLR 1.1.4322; .NET4.0E; .NET CLR 2.0.50727),gzip(gfe)
Xref: news1.google.com rec.radio.amateur.homebrew:3227
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> you can place a simple
> resistive PI or T attenuator between your 45 MHz source and the MMIC,
> then the output of the MMIC would be the level arriving at the MMIC plus
> it's associated gain.http://www.minicircuits.com

Is a bad idea... attenuatr before MMIC increase NF receiever.


From -3841406225725371916
X-Google-Thread: fc2a5,4bb3b096e079710a
X-Google-NewGroupId: yes
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Received: by 10.42.163.65 with SMTP id b1mr9854862icy.2.1321496259427;
        Wed, 16 Nov 2011 18:17:39 -0800 (PST)
Path: h5ni63348pba.0!nntp.google.com!news2.google.com!goblin3!goblin2!
goblin.stu.neva.ru!newsfeed1.swip.net!85.214.198.2.MISMATCH!eternal-september.org!
feeder.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking modern catalog of vacuum tubes
Date: Wed, 16 Nov 2011 21:17:36 -0500
Organization: A noiseless patient Spider
Lines: 51
Message-ID: <ja1qs2$7bm$1@dont-email.me>
References: <j9fu1u$12f$1@frotz.eternal-september.org>
<Pine.LNX.4.64.1111101025040.32336@darkstar.example.net>
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Xref: news2.google.com rec.radio.amateur.homebrew:1937
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Content-Transfer-Encoding: 7bit

On 11/12/2011 03:30 AM, David Griffith wrote:
> Bill M<radioexray@geeeemail.com> wrote:
>> David Griffith wrote:
>>> Michael Black<et472@ncf.ca> wrote:
>>>> On Thu, 10 Nov 2011, David Griffith wrote:
>>>
>>>>> Is there such thing as a modern databook or catalog of
>>>>> currently-produced vacuum tubes? I'm tinkering with the idea of making
>>>>> a modern tube broadcast AM receiver that I can run all the time without
>>>>> thinking "gee, I'm going to pay through the nose for more tubes when the
>>>>> time comes".
>>>
>>> Double triodes, particularly 12ax7, I see are currently manufactured and
>>> easily available. Can a superheterodyne receiver be made from just
>>> that? Anyone have any useful schematics?
>>>
>> I think you are headed in the wrong direction. You can build a nice
>> superhet based on the original designs from the 40s and 50s in the RCA
>> tube manual. All of these tubes are still very common, not expensive,
>> and available as NOS.
>
>> There was a fellow, I think his name was Bob DeRocca, who published a
>> refined 8-tube superhet on the rar+p group. Might be able to dig up
>> those threads via Google Groups search. I saved the schematic but have
>> no idea what filename I saved it under!
>
> I think what I'm trying to accomplish is establishing some sort of
> barrier against the inevitable day when the supply of good cheap tubes
> is gone and what we're left with is mostly guitar amp tubes.
>
> I found a Bob LeRocca on rar+p who appears to be the one you're talking
> about, but I can't seem to locate any mention of an 8-tube superhet.
> I'll stick my head in there and see if anyone remembers this.
>
> Still, my question remains: can one build a decent superhet radio out of
> nothing but 12ax7 dual triodes?
>
At least for the BCB yes, though the AVC control ability of the 12AX7 is
questionable. For the IF stage use both haves of the tube connected in
series with the first section as a common cathode amp and the second
section as a cathode driven amp (common grid, NOT grounded grid as the
second section grid is grounded for RF via a capacitor and is connected
via a resistor to the plate of the first section). For the converter
stage the two sections are again in series, the lower section is a
Hartley oscillator (cathode to tapped coil) and the upper section is the
mixer, grid connected via a resistor to the plate of the lower section
and cap coupled to the antenna coil. Use one section of a 12aX7 diode

connected as the detector (or as a triode infinite impedance type detector). One or two triodes as a phase inverter driving (get this) 4 or 6 12AX7's in a zero bias class B push pull parallel amp (should be good for a couple of watts).

```
From -2826450667060666154
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nntp-feed.chiark.greenend.org.uk!ewrotcd!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking modern catalog of vacuum tubes
Date: Fri, 18 Nov 2011 13:13:38 -0500
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 61
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Xref: news1.google.com rec.radio.amateur.homebrew:3229
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
```

On Wed, 16 Nov 2011, Kenneth Scharf wrote:

>>
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>> nothing but 12ax7 dual triodes?
>>
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> grid is grounded for RF via a capacitor and is connected via a resistor to
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> coil. Use one section of a 12aX7 diode connected as the detector (or as a
> triode infinite impedance type detector). One or two triodes as a phase

> inverter driving (get this) 4 or 6 12AX7's in a zero bias class B push pull
> parallel amp (should be good for a couple of watts).
>

Don't you mean a cascode for the IF amp?

You could get fancy. A dual-triode as a balanced mixer. A similar arrangement for the IF stages, in the IC world the differential amplifier is pretty common, and one reason seems to be the ability to control gain. Have a balanced mixer as the detector, and feed the "bfo" input with the incoming signal via a limiter.

The reality is, people have pretty much followed what came before. Once in a while someone comes along with something "radically" different and then there's another period of following along.

So the solid stated direct conversion receiver came along (the concept existed before solid state, but I don't think "direct conversion" was used before that 1968 article by Hayward. So instead of building regens, direct conversion receivers were commonplace, despite the limitations. It took some time before someone realized a better mixer would help, endless articles about better mixers. It took almost 20 years from that Hayward article before someone really started building good direct conversion receivers, Roy Llewellyn using a diode DBM but actually terminating it properly (somehing done in VHF converters and I think by then in ham receivers for the first mixer, but not migrated to direct conversion receivers until about 1985 or so). Then Gary Breed extended the concept, adding phasing (not a new concept, not even to direct conversion receivers, but still a leap forward) followed by Rick Campbell's various works on the subject.

Somewhere in there, superhets came back, because suddenly everyon was writing about crystal ladder filters. They'd been around before the full wave hit, but something happened to cause a turn. And with cheap filters, the superhet became inexpensive again, and actually simpler than some of those fancier direct conversion receivers (though often their complications came in the audio section).

It's hard to stretch the limits, but somehow and sometime, it happens, and then there's some new development, followed by it becoming the status quo, until someone stretches things again.

Michael VE2BVW

```
From -4344717537709660051
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X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.59.229 with SMTP id c5mr6876396pbr.6.1321720754653;
        Sat, 19 Nov 2011 08:39:14 -0800 (PST)
```

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w7g2000yqc.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking modern catalog of vacuum tubes
Date: Sat, 19 Nov 2011 08:39:14 -0800 (PST)
Organization: http://groups.google.com
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 19 Nov 2011 16:39:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w7g2000yqc.googlegroups.com; posting-host=198.111.161.114;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:7.0.1) Gecko/20100101
Firefox/7.0.1,gzip(gfe)
Xref: news2.google.com rec.radio.amateur.homebrew:1939
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Hey OM:

Yes you can use only 12AX7's, you might need to cascode them to reduce
the miller effect so the disadvantage would be you are going to use
twice as many tubes.
There's lots of audio circuits out there, but for RF you would have to
use a 12AT7 the input capacitance of normal 12AX7's sux big time
unless you go thru a bunch of them and find sum hot 12AX7's
In the old days we used 12AT7's in garage door opener receivers they
used the low power band in the low end of VHF before it went away.
They were made here in Detroit by VEMCO.

HF band should be no problem, see this link on miller effect of
12AX7's:

http://www.aikenamps.com/MillerCapacitance.html

>
> Still, my question remains: can one build a decent superhet radio out of
> nothing but 12ax7 dual triodes?
>
> --
> David Griffith

> davidmylastn...@acm.org =A0 <--- Put my last name where it belongs

```
From 3113756350826736616
X-Google-Thread: fc2a5,4bb3b096e079710a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.35.68 with SMTP id f4mr8059715pbj.5.1321720822117;
        Sat, 19 Nov 2011 08:40:22 -0800 (PST)
Path: h5ni10181pba.0!nntp.google.com!news2.google.com!postnews.google.com!
m19g2000yqh.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking modern catalog of vacuum tubes
Date: Sat, 19 Nov 2011 08:25:20 -0800 (PST)
Organization: http://groups.google.com
Lines: 23
Message-ID: <13cbc326-ade0-4ab9-a8ac-ab44e4cdb0ba@m19g2000yqh.googlegroups.com>
References: <j9fu1u$12f$1@frotz.eternal-september.org>
NNTP-Posting-Host: 198.111.161.114
Mime-Version: 1.0
X-Trace: posting.google.com 1321720821 26761 127.0.0.1 (19 Nov 2011 16:40:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 19 Nov 2011 16:40:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m19g2000yqh.googlegroups.com; posting-host=198.111.161.114;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:7.0.1) Gecko/20100101
Firefox/7.0.1,gzip(gfe)
Xref: news2.google.com rec.radio.amateur.homebrew:1940
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
```

Hey OM:

Why buy tubes when you can roll your own:
Yup I seen it on youtube sum youtuber has a video how to make a
triode, like 1/2 of a 12AX7.

73 OT,
de n8zu

On Nov 10, 2:21=A0am, davidmylastn...@acm.org (David Griffith) wrote:

> Is there such thing as a modern databook or catalog of
> currently-produced vacuum tubes? =A0I'm tinkering with the idea of making

```
> a modern tube broadcast AM receiver that I can run all the time without
> thinking "gee, I'm going to pay through the nose for more tubes when the
> time comes".
>
> --
> David Griffith
> davidmylastn...@acm.org =A0 <--- Put my last name where it belongs



From -3809965129001206909
X-Google-Thread: fc2a5,7e68e53f79ad675,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.59.229 with SMTP id c5mr10865202pbr.6.1321793005665;
        Sun, 20 Nov 2011 04:43:25 -0800 (PST)
Path: h5ni13467pba.0!nntp.google.com!news1.google.com!npeer01.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
post01.iad.highwinds-media.com!newsfe14.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.23) Gecko/20110921
Thunderbird/3.1.15
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: just came across this
Lines: 1
Message-ID: <NB6yq.28926$t37.12268@newsfe14.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Sun, 20 Nov 2011 12:43:25 UTC
Organization: TeraNews.com
Date: Sun, 20 Nov 2011 06:43:25 -0600
Xref: news1.google.com rec.radio.amateur.homebrew:3232
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

http://www.nytimes.com/2011/11/20/nyregion/leeds-radio-is-a-haven-for-lovers-of-
all-things-analog.html?_r=1


From 5590734465039961621
X-Google-Thread: fc2a5,b169eef734d7b848,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.15.105 with SMTP id w9mr17869345pbc.7.1321845595482;
        Sun, 20 Nov 2011 19:19:55 -0800 (PST)
MIME-Version: 1.0
Path: h5ni15927pba.0!nntp.google.com!news1.google.com!goblin3!goblin.stu.neva.ru!
odin.sdf-eu.org!.POSTED!mcalhoun
From: Myron A. Calhoun <mcalhoun@sdf.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Looking for pages from Oct 1947 CQ magazine
```

Date: Mon, 21 Nov 2011 03:13:24 +0000 (UTC)
Organization: SDF Public Access UNIX System, Est. 1987
Lines: 13
Distribution: usa
Message-ID: <jacfkk$h7h$1@odin.sdf-eu.org>
NNTP-Posting-Host: sverige.sdf.org
X-Trace: odin.sdf-eu.org 1321845204 17649 192.94.73.4 (21 Nov 2011 03:13:24 GMT)
X-Complaints-To: usenet@odin.sdf-eu.org
NNTP-Posting-Date: Mon, 21 Nov 2011 03:13:24 +0000 (UTC)
User-Agent: nn/6.7.3
Xref: news1.google.com rec.radio.amateur.homebrew:3233

While cleaning out an old file, I found pages 25/26 of the October, 1947, issue of CQ Magazine which STARTS the description of the "Construction and theory of operation of a two-tube audio amplifier". Unfortunately, the schematic is NOT on those first two pages.

If someone who has that particular issue could scan the REST of that article and email it to

< W0PBV at ARRL dot net >

I would greatly appreciate it.

--W0PBV

From 2970391879860925647
X-Google-Thread: fc2a5,6264997ce0fd3006
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.35.131 with SMTP id h3mr18064697pbj.1.1321892538919;
        Mon, 21 Nov 2011 08:22:18 -0800 (PST)
Path: lh20ni2060pbb.0!nntp.google.com!news2.google.com!postnews.google.com!m10g2000vbc.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Vibrator power supply
Date: Mon, 21 Nov 2011 08:20:15 -0800 (PST)
Organization: http://groups.google.com
Lines: 52
Message-ID: <c539eb23-8dbb-43c8-bb8a-922895741449@m10g2000vbc.googlegroups.com>
References: <d0069b1e-2ecf-45b7-9411-fee53ff5d635@v8g2000vbe.googlegroups.com>
 <%rFtq.8528$zp4.6486@newsfe06.iad> <Xns9F9BEB733F2FDcrite40@216.196.97.131>
NNTP-Posting-Host: 71.68.3.114
Mime-Version: 1.0
X-Trace: posting.google.com 1321892538 17260 127.0.0.1 (21 Nov 2011 16:22:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 21 Nov 2011 16:22:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m10g2000vbc.googlegroups.com; posting-host=71.68.3.114; posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf

User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:8.0) Gecko/20100101 Firefox/8.0,gzip(gfe)
Xref: news2.google.com rec.radio.amateur.homebrew:1943
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

On Nov 12, 5:08=A0am, clifford wright <c.c.wri...@paradise.net.nz>
wrote:
> philo <ph...@privacy.not> wrote innews:%rFtq.8528$zp4.6486@newsfe06.iad:
>
>
>
>
>
>
>
>
>
> > On 11/04/2011 10:17 AM, JIMMIE wrote:
> >> I came by what appears to be a power supply module from some old
> >> military gear. It uses a synchronous vibrator unless my analysis of
> >> the circuit it way off. My plan is to build a circuit to replace the
> >> vibrator with a couple of power FETs driven by a 555 osc and a bridge
> >> rectfier to handle rectification of the output. I was wondering if
> >> there were any circuit designs around before I started to reinvent the
> >> wheel. Also what freqency do they use. Seems like I heard 100Hz at one
> >> time but I dont trust my memory on something I learned 40 years ago.
> >> Any help would be much appreciate.
>
> >> Jimmie
>
> > I believe that military equipment was 400 hz...
>
> > (if so, the xfmr would not be usable at 60hz)
>
> > If it's in working condition it would be easy enough to check.
>
> Well the 400 Hz is a bit odd for a vibrator pack.
> Are you sure that the supply wasn't designed for 400Hz AC?
> That could be explained by use in Aircraft where 400HZ supply
> is quite common. Most mechanical vibrators actually do run at
> about 100 Hz. I have built solid state replacement for several
> and they all had that in common.
> Of course the builder could have used a 400 Hz transformer, but that
> wouldn't match a normal vibrator at all.
> BTW the old Marconi spark transmitters (like on the Titanic) used a 400HZ
> tuned keying relay to protect the operator. Just like a modern zero
> crossing switch!
> Cliff wright ZL1BDA ex G3NIA

Clifford, would you share schematic of the one you built. Im using my
function generator to drive a flip-flop to drive a pair of power FETs.
Seems to be working but I would like to see someone elses design. BTW
this thing seems to work from 50 to 500 HZ. There is also a winding on
it that may be an input to run it off the mains. Not sure of that yet
as I have never seen one before.

Jimmie

From 7444884316352877704
X-Google-Thread: fc2a5,5a3a6690fb654638
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
newsfeed.xs4all.nl!newsfeed6.news.xs4all.nl!xs4all!post.news.xs4all.nl!not-for-
mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: XXX messages
References: <0af38413-0cca-4c82-8ec4-b782b82f6149@t7g2000vbv.googlegroups.com>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrnj57man.23v.nomail@xs8.xs4all.nl>
Date: 23 Aug 2011 16:46:15 GMT
Lines: 12
NNTP-Posting-Host: 2001:888:0:1::888
X-Trace: 1314117975 news.xs4all.nl 23969 [2001:888:0:1::888]:52419
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:4610

looking1513 <pmlohr@gmail.com> wrote:
> What is all this junk XXX stuff on this site. If this is a amateur
> radio homebrew site why have all this TRASH on it?
> How about blocking this stuff and cleaning up the site so we don't
> have to plow through trash to get to the good info!

The problem is that this is not "a site". This is Usenet.
Usenet is a distributed service that is hosted on many different
servers on the Internet, all under different control.
So there is no "blocking this stuff and cleaning up", at least not
on the servers. Any blocking you will have to do yourself on your
own system.

From 4222819697735719819
X-Google-Thread: fc2a5,5a3a6690fb654638
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

```
Path: g2news2.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <knock_yourself_out@example.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: XXX messages
Date: 23 Aug 2011 21:29:54 GMT
Lines: 17
Message-ID: <slrnj586vi.225f.knock_yourself_out@shell.config.com>
References: <0af38413-0cca-4c82-8ec4-b782b82f6149@t7g2000vbv.googlegroups.com>
 <slrnj57man.23v.nomail@xs8.xs4all.nl>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: individual.net KcxN/DGw502dZVaQ4dyFJAOVlWdECgtmKIvpEClv4s6IEx7iRZ
Cancel-Lock: sha1:9eb+d40Lm5W1IqYyl7WJ2dpRqt8=
User-Agent: slrn/0.9.9p1 (FreeBSD)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4908

On 23 Aug 2011 16:46:15 GMT, Rob wrote:
> looking1513 <pmlohr@gmail.com> wrote:
>> What is all this junk XXX stuff on this site.  If this is a amateur
>> radio homebrew site why have all this TRASH on it?
>> How about blocking this stuff and cleaning up the site so we don't
>> have to plow through trash to get to the good info!
>
> The problem is that this is not "a site".  This is Usenet.
> Usenet is a distributed service that is hosted on many different
> servers on the Internet, all under different control.
> So there is no "blocking this stuff and cleaning up", at least not
> on the servers.  Any blocking you will have to do yourself on your
> own system.

Ha!!!  Since his "own system" is Google Groups, good luck with that!

Jonesy -- who never sees any XXX, or GG postings.


From -1806634068668455252
X-Google-Thread: fc2a5,57ec04cb01cf7142
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.16.185.11.MISMATCH!npeer01.iad.highwinds-media.com!news.highwinds-media.com!
feed-me.highwinds-media.com!spln!extra.newsguy.com!newsp.newsguy.com!news7
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit is BACK!
Date: Tue, 23 Aug 2011 19:23:14 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 10
Message-ID: <j31cq202cbr@news7.newsguy.com>
```

```
References: <j2f2sg$udp$1@dont-email.me>
<4e504d1d$0$30083$9a6e19ea@unlimited.newshosting.com>
NNTP-Posting-Host: p605826b44880b745c47a7cf746a9ea92c5f5009b21122c59.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
In-Reply-To: <4e504d1d$0$30083$9a6e19ea@unlimited.newshosting.com>
X-Antivirus: avast! (VPS 110823-1, 08/23/2011), Outbound message
X-Antivirus-Status: Clean
Xref: g2news2.google.com rec.radio.amateur.homebrew:4909

BigRedTruck wrote:
> There ARE still about 750,000 US HAMs who build from scratch, or kits,
> when we can find them!

No, there are about 200 out of 750,000 that know the right end of a
soldering gun or pencil.

I wish it were otherwise...

-Bill


From -5833905716821750787
X-Google-Thread: fc2a5,5a3a6690fb654638
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news7
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: XXX messages
Date: Tue, 23 Aug 2011 19:27:29 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 11
Message-ID: <j31d1d12cbr@news7.newsguy.com>
References: <0af38413-0cca-4c82-8ec4-b782b82f6149@t7g2000vbv.googlegroups.com>
<slrnj57man.23v.nomail@xs8.xs4all.nl>
<slrnj586vi.225f.knock_yourself_out@shell.config.com>
NNTP-Posting-Host: p7a53bf5a5f8c97ab9dad90927fa6fbc1177f29d519ff7be8.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
In-Reply-To: <slrnj586vi.225f.knock_yourself_out@shell.config.com>
X-Antivirus: avast! (VPS 110823-1, 08/23/2011), Outbound message
X-Antivirus-Status: Clean
Xref: g2news1.google.com rec.radio.amateur.homebrew:4613

Allodoxaphobia wrote:
```

>
> Ha!!! Since his "own system" is Google Groups, good luck with that!
>
> Jonesy -- who never sees any XXX, or GG postings.

Yep, if he's using Google then his problems are self-inflicted. I use
NEWSGUY and rarely does that crap get thru.

-B.

From -7109179063180493774
X-Google-Thread: fc2a5,5a3a6690fb654638
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!feeder.erje.net!
eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: highlandham <highlandham.nospam@rfburns.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: XXX messages
Date: Wed, 24 Aug 2011 00:58:14 +0100
Organization: A noiseless patient Spider
Lines: 22
Message-ID: <j31eqn$kvt$1@dont-email.me>
References: <0af38413-0cca-4c82-8ec4-b782b82f6149@t7g2000vbv.googlegroups.com>
<slrnj57man.23v.nomail@xs8.xs4all.nl>
<slrnj586vi.225f.knock_yourself_out@shell.config.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Tue, 23 Aug 2011 23:58:15 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="eLWyMgIHVbz29VHgZD0Jug";
     logging-data="21501"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/P/qvmi5NUE0pXZnM/4DauA48EMiqr1D4="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.18) Gecko/20110617
Thunderbird/3.1.11
In-Reply-To: <slrnj586vi.225f.knock_yourself_out@shell.config.com>
Cancel-Lock: sha1:ZPauBNS3IhgH8ZhxGxeTMjWofA0=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4911

On 23/08/11 22:29, Allodoxaphobia wrote:
> On 23 Aug 2011 16:46:15 GMT, Rob wrote:
>> looking1513<pmlohr@gmail.com> wrote:
>>> What is all this junk XXX stuff on this site. If this is a amateur
>>> radio homebrew site why have all this TRASH on it?
>>> How about blocking this stuff and cleaning up the site so we don't
>>> have to plow through trash to get to the good info!
>>
>> The problem is that this is not "a site". This is Usenet.
>> Usenet is a distributed service that is hosted on many different
>> servers on the Internet, all under different control.

```
>> So there is no "blocking this stuff and cleaning up", at least not
>> on the servers.  Any blocking you will have to do yourself on your
>> own system.
>
> Ha!!!  Since his "own system" is Google Groups, good luck with that!
>
> Jonesy -- who never sees any XXX, or GG postings.
==================================================
Nor do I  using the 'news.eternal-september.org' server .

Frank  GM0CSZ / KN6WH


From -6973618772243616 84
X-Google-Thread: fc2a5,57ec04cb01cf7142
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!eternal-
september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: atec77 <atec77@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit is BACK!
Date: Wed, 24 Aug 2011 15:11:56 +1000
Organization: A noiseless patient Spider
Lines: 20
Message-ID: <j32175$9kd$2@dont-email.me>
References: <j2f2sg$udp$1@dont-email.me>
<4e504d1d$0$30083$9a6e19ea@unlimited.newshosting.com>
<j31cq202cbr@news7.newsguy.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Wed, 24 Aug 2011 05:12:06 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="boEWUuaP+eHgRsXSv318Bg";
     logging-data="9869"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/t+lpL5mJ6sU1c0TFLfLfT"
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:6.0) Gecko/20110812
Thunderbird/6.0
In-Reply-To: <j31cq202cbr@news7.newsguy.com>
Cancel-Lock: sha1:DEYEivXNHvTA7nCqAWKjT+rkW6k=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4912

On 24/08/2011 9:23 AM, Bill M wrote:
> BigRedTruck wrote:
>> There ARE still about 750,000 US HAMs who build from scratch, or kits,
>> when we can find them!
>
> No, there are about 200 out of 750,000 that know the right end of a
> soldering gun or pencil.
>
> I wish it were otherwise...
>
```

```
> -Bill
Perhaps if you prefaced that comment by adding imho


  patently you have an opinion which is dramatically flawed not that you
realise or acknowledge it

--
X-No-Archive: Yes




From 6460450494881075418
X-Google-Thread: fc2a5,5a3a6690fb654638
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!14g2000prv.googlegroups.com!not-for-mail
From: Stuart Longland VK4MSL <me@vk4msl.yi.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: XXX messages
Date: Wed, 24 Aug 2011 14:17:47 -0700 (PDT)
Organization: http://groups.google.com
Lines: 10
Message-ID: <6163a110-36cc-48ce-ab99-e66721cb3dc0@14g2000prv.googlegroups.com>
References: <0af38413-0cca-4c82-8ec4-b782b82f6149@t7g2000vbv.googlegroups.com>
 <slrnj57man.23v.nomail@xs8.xs4all.nl>
<slrnj586vi.225f.knock_yourself_out@shell.config.com>
 <j31d1d12cbr@news7.newsguy.com>
NNTP-Posting-Host: 203.94.56.252
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1314220668 14806 127.0.0.1 (24 Aug 2011 21:17:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 24 Aug 2011 21:17:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 14g2000prv.googlegroups.com; posting-host=203.94.56.252; posting-account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (X11; Linux x86_64; rv:5.0) Gecko/20110709 Firefox/5.0,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4913

On Aug 24, 9:27=A0am, Bill M <radioex...@geeeemail.com> wrote:
> Allodoxaphobia wrote:
>
> > Ha!!! =A0Since his "own system" is Google Groups, good luck with that!
>
> > Jonesy -- who never sees any XXX, or GG postings.
```

```
>
> Yep, if he's using Google then his problems are self-inflicted.

Some of us have no choice.


From 5755954088045723513
X-Google-Thread: fc2a5,5a3a6690fb654638
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!eternal-
september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: highlandham <highlandham.nospam@rfburns.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: XXX messages
Date: Wed, 24 Aug 2011 23:26:58 +0100
Organization: A noiseless patient Spider
Lines: 17
Message-ID: <j33trj$8kt$1@dont-email.me>
References: <0af38413-0cca-4c82-8ec4-b782b82f6149@t7g2000vbv.googlegroups.com>
<slrnj57man.23v.nomail@xs8.xs4all.nl>
<slrnj586vi.225f.knock_yourself_out@shell.config.com>
<j31d1d12cbr@news7.newsguy.com> <6163a110-36cc-48ce-ab99-
e66721cb3dc0@14g2000prv.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Wed, 24 Aug 2011 22:26:59 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="eLWyMgIHVbz29VHgZD0Jug";
     logging-data="8861"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+8g/LeIeU/uW26Q1y/mtYevGke0nj1yG0="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.18) Gecko/20110617
Thunderbird/3.1.11
In-Reply-To: <6163a110-36cc-48ce-ab99-e66721cb3dc0@14g2000prv.googlegroups.com>
Cancel-Lock: sha1:D9rvFXU0bB3tDUNwMxE3v1WrAao=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4617

On 24/08/11 22:17, Stuart Longland VK4MSL wrote:
> On Aug 24, 9:27 am, Bill M<radioex...@geeeemail.com>  wrote:
>> Allodoxaphobia wrote:
>>
>>> Ha!!!  Since his "own system" is Google Groups, good luck with that!
>>
>>> Jonesy -- who never sees any XXX, or GG postings.
>>
>> Yep, if he's using Google then his problems are self-inflicted.
>
> Some of us have no choice.
======================================
Those 'some of us ' could try the free  news.eternal-september.org
server (unless they insist being able to download binaries)
```

Frank   GM0CSZ / KN6WH

```
From -9156225659719514012
X-Google-Thread: fc2a5,31db4b55178abbac,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 25 Aug 2011 06:03:33 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: souce of HF toroid cores in Australasia.
From: clifford wright <c.c.wright@paradise.net.nz>
Organization: Wright retro radio
Message-ID: <Xns9F4CEA9258D21crite40@216.196.97.131>
User-Agent: Xnews/5.04.25
Date: Thu, 25 Aug 2011 06:03:33 -0500
Lines: 17
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-LR5328S0CGjM5t6Urq/NMfJjKembaAHPavCscwI2llz5mhIZ74FP9FdJNZPL/UK/
xVqNl/BN4xOrvaN!o8ALvx9aFgQ4zqO/Mrxt7dsdSj/
bYMdTEPb7fArmqlF0gza7ziXKLF7k51FqF5ZIZQ==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1886
Xref: g2news2.google.com rec.radio.amateur.homebrew:4915
```

Good Day all!
My "new" (it began building in 1985) receiver is very nearly finished and ready for use.
It was long delayed by family events and a multitude of synthesiser problems, but now we have DDS synthesisers this is no longer an issue.
Just a few AGC attack problems to iron out and some tuned circuits at the front end to arrange.
I have some very nice 12.5mm toroids (violet) which work Very well from 1 to 20 MHz but take a severe dive in performance above there.
What I need is a source of toroids of the same size but with a frequency range with high Q from say 15 to 60 Mhz. These are for the bandpass tuned rf filter and the 1st IF @ 45 MHz.
Anyone got any ideas where I might obtain a few out here in NZ.
None of the local suppliers have anything like this and they are also generally very ignorant of the proper use of toroids especially at HF.
Any suggestions very gratefully received.
Regards Clifford Wright ZL1BDA ex G3NIA

From 2682120993957452826
X-Google-Thread: fc2a5,31db4b55178abbac
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!feeder.erje.net!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: atec77 <atec77@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: souce of HF toroid cores in Australasia.
Date: Thu, 25 Aug 2011 22:12:16 +1000
Organization: A noiseless patient Spider
Lines: 23
Message-ID: <j35e79$ulh$2@dont-email.me>
References: <Xns9F4CEA9258D21crite40@216.196.97.131>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 25 Aug 2011 12:12:25 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="boEWUuaP+eHgRsXSv318Bg";
     logging-data="31409"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18J7BuYk0woHxLKVRa3IlS1"
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:6.0) Gecko/20110812
Thunderbird/6.0
In-Reply-To: <Xns9F4CEA9258D21crite40@216.196.97.131>
Cancel-Lock: sha1:3HVyc90eFlrQqYGeJrN6F8Q6Gss=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4619

On 25/08/2011 9:03 PM, clifford wright wrote:
> Good Day all!
> My "new" (it began building in 1985) receiver is very nearly finished and
> ready for use.
> It was long delayed by family events and a multitude of synthesiser
> problems, but now we have DDS synthesisers this is no longer an issue.
>   Just a few AGC attack problems to iron out and some tuned circuits at the
> front end to arrange.
> I have some very nice 12.5mm toroids (violet) which work Very well from 1
> to 20 MHz but take a severe dive in performance above there.
> What I need is a source of toroids of the same size but with a frequency
> range with high Q from say 15 to 60 Mhz. These are for the bandpass tuned
> rf filter and the 1st IF @ 45 MHz.
> Anyone got any ideas where I might obtain a few out here in NZ.
> None of the local suppliers have anything like this and they are also
> generally very ignorant of the proper use of toroids especially at HF.
> Any suggestions very gratefully received.
> Regards Clifford Wright ZL1BDA ex G3NIA

I would email amidon directly

--
X-No-Archive: Yes

```
From -5259759684301557466
X-Google-Thread: fc2a5,31db4b55178abbac
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!npeer01.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
post01.iad.highwinds-media.com!newsfe18.iad.POSTED!90dc3a98!not-for-mail
From: Clifford Heath <foo@bar.com>
Subject: Re: souce of HF toroid cores in Australasia.
Newsgroups: rec.radio.amateur.homebrew
References: <Xns9F4CEA9258D21crite40@216.196.97.131>
     <j35e79$ulh$2@dont-email.me>
User-Agent: Pan/0.133 (House of Butterflies)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 30
Message-ID: <Wdr5q.31138$Vn5.28498@newsfe18.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Thu, 25 Aug 2011 12:28:38 UTC
Organization: TeraNews.com
Date: Thu, 25 Aug 2011 12:28:38 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:4620
```

On 25/08/2011 9:03 PM, clifford wright wrote:

> I have some very nice 12.5mm toroids (violet) which work Very well from
> 1 to 20 MHz but take a severe dive in performance above there. What I
> need is a source of toroids of the same size but with a frequency range
> with high Q from say 15 to 60 Mhz. These are for the bandpass tuned rf
> filter and the 1st IF @ 45 MHz.
> Anyone got any ideas where I might obtain a few out here in NZ. None of
> the local suppliers have anything like this and they are also generally
> very ignorant of the proper use of toroids especially at HF. Any
> suggestions very gratefully received.

I got a few HF/VHF toroids recently from <http://rockby.com.au>.

Just make sure you verify that the mix you select is correct for the purpose (resonant, not transformer) you need, and has the permeability you want. There's a lot of confusing information on the net about what different mixes are good for, and I'm only just starting to get my head around it.

Rockby stock # 25651 is smaller than you want, but mix 12, mu=3, which should be good in resonant circuits from 20-200MHz, if I have my facts straight. I also have some stock #25298, mu=40 and mix 63, which should be ok in resonant circuits from 10-80MHz, and in transformers to 800MHz.

If anyone can verify or discredit the above suitabilities, I'd like to know before I spend too much time playing with circuits around these (I haven't found time yet, still trying to figure out how to make decent PCBs, necessary to get a ground plane at 2m).

Clifford Heath.

```
From -3348594119335377020
X-Google-Thread: 241b302a50,21e27559f4873376,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h23g2000pra.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT ONLY HOT SEX VIDEOS 135 SEXY PHOTOS
Date: Fri, 26 Aug 2011 18:06:03 -0700 (PDT)
Organization: http://groups.google.com
Lines: 36
Message-ID: <c4b0adb2-af1f-4a63-b014-2a78fd9830d4@h23g2000pra.googlegroups.com>
NNTP-Posting-Host: 117.199.244.160
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1314407519 24117 127.0.0.1 (27 Aug 2011 01:11:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Aug 2011 01:11:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h23g2000pra.googlegroups.com; posting-host=117.199.244.160;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.20)
 Gecko/20110803 Firefox/3.6.20,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4918
```

A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.com/

ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

ALL JOBS SITES FREE SEE

http://jobstwo.blogspot.com/

HOT VIDEOS

http://hotvideotoou.blogspot.com/2011/01/kiss-videos.html

hot lip kiss
http://hotvidos.blogspot.com/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.com/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.com/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.com/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.com/2010/07/tamil-hot-videos.html

```
From -5536323129852989610
X-Google-Thread: fc2a5,c30a279aea81df5b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!r8g2000prd.googlegroups.com!not-for-
mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: NEW UPDATES
Date: Sat, 27 Aug 2011 00:13:29 -0700 (PDT)
Organization: http://groups.google.com
Lines: 46
Message-ID: <7179d890-efdf-4dcf-a2b8-f98496d31c9b@r8g2000prd.googlegroups.com>
NNTP-Posting-Host: 117.213.130.219
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1314429209 20049 127.0.0.1 (27 Aug 2011 07:13:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Aug 2011 07:13:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r8g2000prd.googlegroups.com; posting-host=117.213.130.219;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.20)
 Gecko/20110803 Firefox/3.6.20,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4622
```

               FOR GOOD JOBS SITES TO YOU
                http://goodjobssites.blogspot.com

           PRIYANKA CHOPRA HOT STILLS

http://allyouwants.blogspot.com/2011/08/priyanka-chopra.html
FOR HOT PHOTO&VIDEOS
HOT SOUTH ACTRESS IN DIFFERENT DRESSES
http://southactresstou.blogspot.com/2011/08/south-actress.html
SAMEERA REDDY HOT PICS
http://hotactress-kalyani.blogspot.com/2011/08/sameera-reddy.html
HOT ACTRESS WET ROMANTIC PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/actress-hot-wet-photos.html
TRISHA HOT BATHROOM PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/trisha-hot.html
ANUSHKA SHETTY HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/anushka-hot.html
KATRINA KAIF RARE PHOTOS
http://southactresstou.blogspot.com/2011/07/katrina-kaif-wallpapers.html
KAJAL LATEST ROMANTIC STILLS
http://southactresstou.blogspot.com/2011/07/kajal-agarwal-in-naperu-shiva.html
TAMANNA HOT SEXY PHOTOS & VIDEOS
http://southactresstou.blogspot.com/2011/07/tamanna-wallpapers.html
PRANITHA LATEST BEAUTIFUL PHOTOS
http://southactresstou.blogspot.com/2011/06/about-pranitha-praneetha-is-beautiful.html

FOR ONLY HOT GUYS SEE THIS
TOP 20 HOT ACTRESS PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/hot-actrsess.html
KAJAL AGARWAL LATEST HOT
http://hotactress-kalyani.blogspot.com/2011/08/kajal-agarwal-hot-photos.html
LATEST   AMISHA PATEL HOT PICS
http://hotactress-kalyani.blogspot.com/2011/08/amisha-patel-hot.html
TAPSEE DIFFERENT STILLS
http://hotactress-kalyani.blogspot.com/2011/08/tapsee-hot.html
PRIYAMANI HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/priyamani-hot.html
ARTHI CHABRIA HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/aarti-chabria-hot.html
DIYA MIRZA HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/diya-mirza-hot.html
KATRINA KAIF HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/katrina-kaif-hot.html
DEEPIKA PADUKONE HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/deepika-padukone-hot.html
NAMITHA HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/namitha-hot-photos.html

From -1073514651133157736
X-Google-Thread: fc2a5,18a425d1325c4a55,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail

NNTP-Posting-Date: Mon, 29 Aug 2011 07:00:14 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Anyone with experience of the VK5BR noise canceller?
From: clifford wright <c.c.wright@paradise.net.nz>
Organization: Wright retro radio
Message-ID: <Xns9F51A9D2E3crite40@216.196.97.131>
User-Agent: Xnews/5.04.25
Date: Mon, 29 Aug 2011 07:00:15 -0500
Lines: 14
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-DCMSaWQmTFa3cUFtllY9cM8CMXc3O6NiqMg/
8lod3R66OROa4g+L0+4Bw5sdGzY1Ii9K2jFQUqeCfb4!5dr6cqlJRWrcyPhFPm/
OO1W1e8kbAXNmOcc6LLkjqEA0iChJ7dVhFjXL2+3BYQ==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1694
Xref: g2news1.google.com rec.radio.amateur.homebrew:4623

Good day all!
My latest build is a version of the VK5BR noise cancellor.
So far (using different toroid cores from those specified) I have got about
3 "S" points of noise reduction.
I am expecting a shipment of cores from Amidon in the next few days and
will try the final version with 2 FT50-75 cores as specifid in the later
"Amateur Radio" article.
Basically though I am quite pleased with it. It means more adjustments, but
in a rural location, but with bad power line noise, it seems to help.
FYI, Don't go by the "radio communication" circuit.
It has several errors. Look up VK5BR's own site with all the corrections.
It would be very intersting to hear of others experience with this gadget.
Anyone else made one?
Cliff Wright ZL1BDA ex G3NIA

From -5020410538038661761
X-Google-Thread: fc2a5,6beae962f3155603
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 29 Aug 2011 07:07:52 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: low intermod RF amplifiers for HF.
From: clifford wright <c.c.wright@paradise.net.nz>
References: <Xns9F18A82DAA644crite40@216.196.97.131>
<3iFXp.62944$mX5.20181@uutiset.elisa.fi>
Organization: Wright retro radio

```
Message-ID: <Xns9F51155ABF7Fcrite40@216.196.97.131>
User-Agent: Xnews/5.04.25
Date: Mon, 29 Aug 2011 07:07:52 -0500
Lines: 51
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
PyO9cfdDxzNLEG05iwOkM3ElQlmivUO4Zky+PYO6SErCxokDcu2mIsKXXFy8zCR+tBiCIRHYpmDugVZ!
FISDK7TwvFcPRxuk8Pr0VpIzl4DIu6/wzAyuknKAQL6TV+0nb3ziPL4FdCFwSNdL
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 3485
Xref: g2news1.google.com rec.radio.amateur.homebrew:4624

KBa <kba@nic.fi> wrote in news:3iFXp.62944$mX5.20181@uutiset.elisa.fi:

> On 4.7.2011 7:31, clifford wright wrote:
>> Good day!
>> Can anyone point me towards a good design for a good RF stage for my
>> home brew HF receiver. I have no less than 6 others hams in my small
>> town and one within 400 metres, so I need good strong signal
>> performance. 10 to 15 dB gain would be ample, but I would like to
>> have 50 Ohm input and output impeadances.
>> The receiver is an upconverter to 45MHz with a 15 kHz bandwidth xtal
>> filter followed by a downconverting mixer to either 9MHz or 10.7 MHz
>> with separate IF strips.
>> Tuning is by a PA0KLT synthesiser.
>> I have been a bit out of touch lately and am not very up to date with
>> the latest MOSFETS etc. The mixers use the 1992 Ulrich Rohde FET
>> double balanced mixer circuit.
>> The rest of the sytem was built back in the early 1990's but put to
>> one side until a better frequency sythesiser was available.
>> Now it looks like the time to get things moving again!
>> Regards Cliff Wright ZL1BDA ex G3NIA.
>
> Hello
>
> Some late thoughts about amplifier candidate...
> One simple but low cost one could be push-pull Jfet amplifier using
> two J309 in parallel, gate grounded. Input can matched to 50 ohm using
> 1:0.7 input transformer ( fets do have lower input impedance than 50
> ohm ) and output at drains can be 4:1 balanced transformer.
> Spice analysis shows around 9dB gain and very good wide-band input
> matching, probably noise figure is also not much greater than one fet
> alone, actually it should be lower. One thing needed is quite equal
> fets, Idss and Vp, four matched fets should be still easy to find.
> Sorry don't have more exact figures to give, but this could be one
> candidate to evaluate.
>
> br Kari B
```

>   Oh6io
>
>
>

Just a quick follow up on the RF amplifier question. Yes I do need a bit
of gain (say 12 dB) before the mixer. One reason is that for many years I
have experimented with low angle radiation on 14 MHz cw. Signals are
often quite weak from the antipodes of NZ (the western mediterranean
area) and I often work them when the band appears dead around local noon.
Fortunately my neighbouring ham is not very active these days.
Anyway for now I am using a cascode JFET amplifier with a relatively high
supply current and this seems adequate. However applying AGC is a bit of
a problem.
Cliff Wright ZL1BDA

```
From -7693079924156750819
X-Google-Thread: fcc6e,36dfc1b22cc9389c,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,36dfc1b22cc9389c,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,36dfc1b22cc9389c,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,36dfc1b22cc9389c,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,36dfc1b22cc9389c,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,36dfc1b22cc9389c,start
X-Google-NewGroupId: yes
X-Google-Thread: 10e8ad,36dfc1b22cc9389c,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,36dfc1b22cc9389c,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf
6,gid8f86f75953,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news1.google.com!news.glorb.com!news-
out.readnews.com!transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1312178401@panix.com>
Followup-To: poster
Date: 1 Sep 2011 02:00:02 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
```

Expires: 04 Oct 2011 02:00:00 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1314856800@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com (rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1314856802 27887 166.84.1.2 (1 Sep 2011 06:00:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 1 Sep 2011 06:00:02 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
Xref: g2news1.google.com rec.radio.amateur.antenna:22476 rec.radio.amateur.dx:1086 rec.radio.amateur.equipment:2658 rec.radio.amateur.homebrew:4625 rec.radio.amateur.misc:6539 rec.radio.amateur.policy:32336 rec.radio.amateur.space:543 rec.radio.info:2628

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

From -5355064108595458587
X-Google-Thread: fc2a5,31db4b55178abbac
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 03 Sep 2011 06:11:46 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: souce of HF toroid cores in Australasia.
From: clifford wright <c.c.wright@paradise.net.nz>
References: <Xns9F4CEA9258D21crite40@216.196.97.131> <j35e79$ulh$2@dont-email.me>
Organization: Wright retro radio
Message-ID: <Xns9F55EBF7A1A2Ecrite40@216.196.97.131>
User-Agent: Xnews/5.04.25
Date: Sat, 03 Sep 2011 06:11:46 -0500
Lines: 28
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-wGvX3zVb0Q1W6oGFBnL/mkkZGnMNGSanI6k/BuC4C5rvGeF2qmoL+Y3dET6RAz7t2nUj9ifI/kIkyW5!mLuPqig2ph4DZyvcp3/E5w/j+OWRLIog5IRNREauG4fLuUzKqdD6j3DTeCg/fi6t7sY=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2283
Xref: g2news2.google.com rec.radio.amateur.homebrew:4923

atec77 <atec77@hotmail.com> wrote in news:j35e79$ulh$2@dont-email.me:

> On 25/08/2011 9:03 PM, clifford wright wrote:
>> Good Day all!
>> My "new" (it began building in 1985) receiver is very nearly finished
>> and ready for use.
>> It was long delayed by family events and a multitude of synthesiser
>> problems, but now we have DDS synthesisers this is no longer an
>> issue.

```
>>   Just a few AGC attack problems to iron out and some tuned circuits
>>   at the
>> front end to arrange.
>> I have some very nice 12.5mm toroids (violet) which work Very well
>> from 1 to 20 MHz but take a severe dive in performance above there.
>> What I need is a source of toroids of the same size but with a
>> frequency range with high Q from say 15 to 60 Mhz. These are for the
>> bandpass tuned rf filter and the 1st IF @ 45 MHz.
>> Anyone got any ideas where I might obtain a few out here in NZ.
>> None of the local suppliers have anything like this and they are also
>> generally very ignorant of the proper use of toroids especially at
>> HF. Any suggestions very gratefully received.
>> Regards Clifford Wright ZL1BDA ex G3NIA
> I would email amidon directly
>

Thanks for the suggestion Amidon were very helpful and have low postage
rates.
ZL1BDA



From -6114059425031291377
X-Google-Thread: fc2a5,31db4b55178abbac
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!eternal-september.org!
feeder.eternal-september.org!.POSTED!not-for-mail
From: atec77 <atec77@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: souce of HF toroid cores in Australasia.
Date: Sat, 03 Sep 2011 23:35:42 +1000
Organization: A noiseless patient Spider
Lines: 35
Message-ID: <j3tafr$bro$3@dont-email.me>
References: <Xns9F4CEA9258D21crite40@216.196.97.131> <j35e79$ulh$2@dont-email.me>
<Xns9F55EBF7A1A2Ecrite40@216.196.97.131>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 3 Sep 2011 13:35:57 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="boEWUuaP+eHgRsXSv318Bg";
     logging-data="12152"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/LI0esOPcsz87DjrEMh2/A"
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:6.0.1) Gecko/20110830
Thunderbird/6.0.1
In-Reply-To: <Xns9F55EBF7A1A2Ecrite40@216.196.97.131>
Cancel-Lock: sha1:KzJLtn36G3KAD1qm+UJ2D/dcBGU=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4924

On 3/09/2011 9:11 PM, clifford wright wrote:
> atec77<atec77@hotmail.com>  wrote in news:j35e79$ulh$2@dont-email.me:
>
```

```
>> On 25/08/2011 9:03 PM, clifford wright wrote:
>>> Good Day all!
>>> My "new" (it began building in 1985) receiver is very nearly finished
>>> and ready for use.
>>> It was long delayed by family events and a multitude of synthesiser
>>> problems, but now we have DDS synthesisers this is no longer an
>>> issue.
>>>    Just a few AGC attack problems to iron out and some tuned circuits
>>>    at the
>>> front end to arrange.
>>> I have some very nice 12.5mm toroids (violet) which work Very well
>>> from 1 to 20 MHz but take a severe dive in performance above there.
>>> What I need is a source of toroids of the same size but with a
>>> frequency range with high Q from say 15 to 60 Mhz. These are for the
>>> bandpass tuned rf filter and the 1st IF @ 45 MHz.
>>> Anyone got any ideas where I might obtain a few out here in NZ.
>>> None of the local suppliers have anything like this and they are also
>>> generally very ignorant of the proper use of toroids especially at
>>> HF. Any suggestions very gratefully received.
>>> Regards Clifford Wright ZL1BDA ex G3NIA
>> I would email amidon directly
>>
>
> Thanks for the suggestion Amidon were very helpful and have low postage
> rates.
> ZL1BDA
I built some stuff recently and even with the freight it was a done deal
being so affordable  , glad they helped

--
X-No-Archive: Yes




From -4633146508435343786
X-Google-Thread: fc2a5,2f4124629cf75461,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 03 Sep 2011 11:25:24 -0500
Date: Sun, 04 Sep 2011 02:25:23 +1000
From: Graeme Zimmer <gzimmer@wideband.net.au>
User-Agent: Mozilla/5.0 (Windows NT 5.1; rv:6.0.1) Gecko/20110830 Firefox/6.0.1
SeaMonkey/2.3.1
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: ferrite in Oz
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <oZednWtb8pZoyf_TnZ2dnUVZ_omdnZ2d@giganews.com>
```

```
Lines: 17
X-Usenet-Provider: http://www.giganews.com
X-Trace:
sv3-9kyedqqGiWTGibAquZjZZz+9WRnp4M01TLtzCwoiSQ4GZaL1ioQPFDMXYdptOJ7Co9xzsYKk9oTo4w
W!USE3gIuybPXfMkF7Zo5c1Lxshh1XAOI8yYxSg6dJ2TJchhwXpOGhaKoAYng2BfX6UBBbfkoIEQ==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1524
Xref: g2news1.google.com rec.radio.amateur.homebrew:4628
```

Hi Clifford,

In Oz the source used to be RJ & US IMPORTS
http://users.catchnet.com.au/~rjandusimports/

But they have ceased trading, although there's still lots of info on
their site.

I think now the best local source is
http://www.minikits.com.au/products.html#ferrites

In the USA, try "The Toroid King" at
http://www.partsandkits.com/

But these days I usually just look an ebay for any radio bits and pieces.

Regards .... Zim VK3GJZ

```
From -513596582663935229
X-Google-Thread: fc2a5,dd74d0c3b29adff3,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p25g2000pri.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SEXY ACTRESES VIDEOS MOVIES PHOTOS WATCH AND DOWNLOAD
Date: Sat, 3 Sep 2011 18:14:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 35
Message-ID: <2f8ed2c5-b142-4966-af6a-e8684732f1a9@p25g2000pri.googlegroups.com>
NNTP-Posting-Host: 117.199.243.239
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1315098866 6120 127.0.0.1 (4 Sep 2011 01:14:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 4 Sep 2011 01:14:26 +0000 (UTC)
```

```
Complaints-To: groups-abuse@google.com
Injection-Info: p25g2000pri.googlegroups.com; posting-host=117.199.243.239;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.3)
 Gecko/20090824 Firefox/3.5.3,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4926
```

A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.com/

ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

ALL JOBS SITES FREE SEE

http://jobstwo.blogspot.com/

HOT VIDEOS

http://hotvideotoou.blogspot.com/2011/01/kiss-videos.html

hot lip kiss
http://hotvidos.blogspot.com/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.com/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.com/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.com/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.com/2010/07/tamil-hot-videos.html

```
From -3102386486458506214
X-Google-Thread: fc2a5,2d7c49dac779bb10,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,2d7c49dac779bb10,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gide721ae2bf6,domainid0,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.linkpendium.com!
news.linkpendium.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1312697100@panix.com>
Followup-To: poster
Date: 7 Sep 2011 02:05:00 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 10 Oct 2011 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1315375500@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1315375501 22733 166.84.1.2 (7 Sep 2011 06:05:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 7 Sep 2011 06:05:01 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:22542 rec.radio.amateur.dx:1090
rec.radio.amateur.equipment:2660 rec.radio.amateur.homebrew:4630
rec.radio.amateur.misc:6550 rec.radio.amateur.policy:32539 rec.radio.info:2648

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |

```
is that it does not mention newer amateur radio newsgroups created since      |
it was written, including:                                                    |

 rec.radio.amateur.antenna                                                    |
 rec.radio.amateur.boatanchors                                                |
 rec.radio.amateur.dx                                                         |
 rec.radio.amateur.equipment                                                  |
 rec.radio.amateur.homebrew                                                   |
 rec.radio.amateur.moderated                                                  |
 rec.radio.amateur.space                                                      |
```

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions. We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

```
From -3332363357647394906
X-Google-Thread: fc2a5,b359cec3cfb2fc4b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.31.34 with SMTP id x2mr23684pbh.17.1315439579335;
        Wed, 07 Sep 2011 16:52:59 -0700 (PDT)
Path: m9ni1468pbd.0!nntp.google.com!news1.google.com!postnews.google.com!
w28g2000yqw.googlegroups.com!not-for-mail
From: Rot in Hell Evan Chandler <tony@asb-comm-logicx.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Michael Jackson - Morphine(remix)
Date: Wed, 7 Sep 2011 16:51:40 -0700 (PDT)
Organization: http://groups.google.com
Lines: 8
Message-ID: <c08ad740-cfb2-4776-98c3-a0329754c739@w28g2000yqw.googlegroups.com>
NNTP-Posting-Host: 82.132.211.2
Mime-Version: 1.0
X-Trace: posting.google.com 1315439579 27252 127.0.0.1 (7 Sep 2011 23:52:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 7 Sep 2011 23:52:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w28g2000yqw.googlegroups.com; posting-host=82.132.211.2; posting-
account=L_UfjgoAAABtyRDA90t-v_UcEAmXuW5z
User-Agent: G2/1.0
```

X-Google-Web-Client: true
X-Google-Header-Order: ARLUECHNK
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1; WOW64;
 Trident/4.0; GTB7.1; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
 3.0.30729; Media Center PC 6.0; .NET4.0C),gzip(gfe)
Xref: news1.google.com rec.radio.amateur.homebrew:3107
Content-Type: text/plain; charset=ISO-8859-1

Michael Jackson - Morphine(remix)
http://www.youtube.com/watch?v=W7na6TqoHuw

http://www.youtube.com/watch?v=9PT_K0JGvh0
http://www.youtube.com/watch?v=PQbBQC0CYQg
http://asbcommlogicxnet.ourtoolbar.com/exe

From 9016998632525989032
X-Google-Thread: 241b302a50,fb57c374e761349a,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o9g2000vbo.googlegroups.com!not-for-mail
From: douglas darnell <hawkingleary@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: scope problem newbie
Date: Wed, 7 Sep 2011 16:32:33 -0700 (PDT)
Organization: http://groups.google.com
Lines: 4
Message-ID: <614d30c7-6c2f-4346-9137-9b5a859fc5ae@o9g2000vbo.googlegroups.com>
NNTP-Posting-Host: 173.196.143.90
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1315443355 960 127.0.0.1 (8 Sep 2011 00:55:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Sep 2011 00:55:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o9g2000vbo.googlegroups.com; posting-host=173.196.143.90; posting-account=iMfibgoAAADPdeq-D2jejzpq4NQ9nv5Y
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HNKRUAELSC
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_5_8)
 AppleWebKit/535.1 (KHTML, like Gecko) Chrome/13.0.782.220 Safari/535.1,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4632

hi guys, i just bought a b&k 1470, does anyone know how to put it in
'xy mode'? I'm trying to get Lissajous Curves. thanks in advance

d

From 3926196283815700487
X-Google-Thread: 241b302a50,fb57c374e761349a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 07 Sep 2011 21:20:13 -0500
Reply-To: "Ralph Mowery" <rmowery28146@earthlink.net>
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <614d30c7-6c2f-4346-9137-9b5a859fc5ae@o9g2000vbo.googlegroups.com>
Subject: Re: scope problem newbie
Date: Wed, 7 Sep 2011 22:20:14 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <aJCdnZPat7zAu_XTnZ2dnUVZ_jednZ2d@earthlink.com>
Lines: 16
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.148.196.49
X-Trace:
sv3-1F8dEc4E3bMT9NmnOK9Hs2CuSy8zZutz+riReiUNM5J8gSmCjmGdKe5cnP8OzZgg3fsHdM1AXkddSq
F!NAfr3QJIaYjdDXIsJWkqJZVSwrotq4JIlzzGNL1RpePQ+2z6yFDaq74Ex04OTen3srYYLC68/p1M!
xw5LIoxCGS5uq5gS+M3zINXKqqpe7f6Ok9d0b/I=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1747
Xref: g2news2.google.com rec.radio.amateur.homebrew:4930

"douglas darnell" <hawkingleary@gmail.com> wrote in message
news:614d30c7-6c2f-4346-9137-9b5a859fc5ae@o9g2000vbo.googlegroups.com...
> hi guys, i just bought a b&k 1470, does anyone know how to put it in
> 'xy mode'? I'm trying to get Lissajous Curves. thanks in advance
>
> d

Turn the sweep control to EXT (all the way clockwise). Feed one input to the chanel 1 input as usual. Feed the other input to the two binding posts near the sweep control. This is the horizontal input. The center of the sweep control is the horizontal gain .

```
From -999647785674857455
X-Google-Thread: fc2a5,d20a723dca564880,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y39g2000prd.googlegroups.com!not-for-
mail
From: bgfbfjgg ojdhdsd <uijsbhsbchsv@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT VIDEOS FOR YOUTH AND ALL ADULT PEOPLE 2011 SEXY PHOTOS
Date: Wed, 7 Sep 2011 22:59:57 -0700 (PDT)
Organization: http://groups.google.com
Lines: 35
Message-ID: <a3ec0e4c-fd6a-493d-9bc7-55740600ab0b@y39g2000prd.googlegroups.com>
NNTP-Posting-Host: 117.199.247.89
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1315461632 28543 127.0.0.1 (8 Sep 2011 06:00:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Sep 2011 06:00:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y39g2000prd.googlegroups.com; posting-host=117.199.247.89;
posting-account=VkOAtQoAAACEcOLC5-eHi1eJjZH4zy38
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.22)
 Gecko/20110902 Firefox/3.6.22,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4931
```

A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.com/

ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

ALL JOBS SITES FREE SEE

http://jobstwo.blogspot.com/

HOT VIDEOS

http://hotvideotoou.blogspot.com/2011/01/kiss-videos.html

```
hot lip kiss
http://hotvidos.blogspot.com/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.com/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.com/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.com/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.com/2010/07/tamil-hot-videos.html
```

```
From -5665525193820897638
X-Google-Thread: 241b302a50,af6648c19f65361,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m3g2000pri.googlegroups.com!not-for-
mail
From: tejaswini <teju9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SOUTH INDIAN HOT ACTRESS
Date: Thu, 8 Sep 2011 03:51:12 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
Message-ID: <2c5434fa-141f-45ed-974a-e9cef388814a@m3g2000pri.googlegroups.com>
NNTP-Posting-Host: 117.199.240.145
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1315479159 14892 127.0.0.1 (8 Sep 2011 10:52:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Sep 2011 10:52:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m3g2000pri.googlegroups.com; posting-host=117.199.240.145;
posting-account=6xaZwQoAAACqKFwd8FfwWgPIkcC-Icg-
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.21)
 Gecko/20110830 Firefox/3.6.21,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4635

                  FOR GOOD JOBS SITES TO YOU
                http://goodjobssites.blogspot.com/

                         FOR HOT PHOTO&VIDEOS
            SAMANTHA HOT EXCLUSIVE PHOTOS
http://southactresstou.blogspot.com/2011/09/south-actress-samantha.html
                  FOR EXCLUSIVE HOT ASIN PICS
http://southactresstou.blogspot.com/2011/09/asin.html
```

KATRINA KAIF RARE PHOTOS
http://southactresstou.blogspot.com/2011/07/katrina-kaif-wallpapers.html
HOT SOUTH ACTRESS IN DIFFERENT DRESSES
http://southactresstou.blogspot.com/2011/08/south-actress.html
DOOKUDU LATEST MOVIE STILLS
http://southactresstou.blogspot.com/2011/08/dookudu-movie-stills.html
KAJAL LATEST ROMANTIC STILLS
http://southactresstou.blogspot.com/2011/07/kajal-agarwal-in-naperu-shiva.html
TAMANNA HOT PHOTOS & VIDEOS
http://southactresstou.blogspot.com/2011/07/tamanna-wallpapers.html

FOR ONLY HOT GUYS SEE THIS
KAJAL AGARWAL LATEST HOT WITHOUT TOP
http://hotactress-kalyani.blogspot.com/2011/08/kajal-agarwal-hot-photos.html
HOT KATRINAKAIF WALLPAPERS
http://hotactress-kalyani.blogspot.com/2011/08/katrina-kaif-hot.html
SAMANTHA HOT WALLPAPERS
http://hotactress-kalyani.blogspot.com/2011/09/samantha-hot.html
TAMANNA HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/tamanna-hot.html
HOT MALLU ACTRESS BHAMA
http://hotactress-kalyani.blogspot.com/2011/09/bhama-hot.html
TOLLYWOOD HOT ACTRESSES
http://hotactress-kalyani.blogspot.com/2011/08/hot-actrsess.html
SONAKSHI SINHA HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/09/sonakshi-sinha-hot.html
PRIYANKA CHOPRA LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/priyanka-chopra-hot.html

LATEST AMISHA PATEL HOT PICS
http://hotactress-kalyani.blogspot.com/2011/08/amisha-patel-hot.html
TAPSEE DIFFERENT STILLS
http://hotactress-kalyani.blogspot.com/2011/08/tapsee-hot.html
PRIYAMANI HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/priyamani-hot.html

FOR FAST UPDATES IN TELUGU FILM INDUSTRY
TAMIL ACTRESS HOT PHOTO SHOOT
http://allyouwants.blogspot.com/2011/08/tamil-actress.html
SOUTH INDIAN HOT ACTRESS PICS
http://allyouwants.blogspot.com/2011/08/hot-actress.html
DEEPIKA PADUKONE IN DUM MARO DUM MOVIE
http://allyouwants.blogspot.com/2011/08/deepika-in-dum-maro-dum.html
PRIYAMANI SPICY PHOTOS IN COW GIRL
http://allyouwants.blogspot.com/2011/02/priyamani-spicy-photo-shoot-cow-girl.html

PRIYAMANI SPICY PHOTOS IN COW GIRL
http://allyouwants.blogspot.com/2011/02/priyamani-spicy-photo-shoot-cow-girl.html
KAJAL HOT PHOTOS IN SAREE
http://allyouwants.blogspot.com/2011/06/kajal-very-spice-pics.html

```
From -4251201723182109185
X-Google-Thread: 241b302a50,45172690be20057b,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe06.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.21) Gecko/20110831
Thunderbird/3.1.13
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: the year 1970
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 9
Message-ID: <BD0bq.7050$sX1.1599@newsfe06.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Sun, 11 Sep 2011 11:07:13 UTC
Organization: TeraNews.com
Date: Sun, 11 Sep 2011 06:07:10 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:4933
```

A friend of mine gave me some of his old electronics magazines.
Though I really enjoyed looking at the ones from the 1950's...
the ones from 1970 were noteworthy for having construction articles
on tube, transistor and integrated circuit designs.

No, there were not any designs I saw employing both tubes and IC's
but I would not be surprised if someone created such a project at one
time or another

```
From 7899064222077438994
X-Google-Thread: fc2a5,18a425d1325c4a55
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.66.161 with SMTP id g1mr346976pbt.10.1316169283909;
        Fri, 16 Sep 2011 03:34:43 -0700 (PDT)
MIME-Version: 1.0
Path: m9ni7431pbd.0!nntp.google.com!news1.google.com!news2.google.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 16 Sep 2011 05:34:42 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Anyone with experience of the VK5BR noise canceller?
From: clifford wright <c.c.wright@paradise.net.nz>
References: <Xns9F51A9D2E3crite40@216.196.97.131>
```

Organization: Wright retro radio
Message-ID: <Xns9F626B98457D8crite40@216.196.97.131>
User-Agent: Xnews/5.04.25
Date: Fri, 16 Sep 2011 05:34:43 -0500
Lines: 36
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-u1NOQXf3/LRPK8zd+rZ7yV2cRHSlM0n4ZPvhP81S7a5pEuxCGP/
Fdp4aCUEReNewsAzCuEU05pgG0DV!pbkq4/MkcLax1uvu3C3c6gL62CIvp52X02pWo7+/lv5RQc3Ncd/
GM8XMts8/PRmvHM0=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2938
Xref: news1.google.com rec.radio.amateur.homebrew:3112

clifford wright <c.c.wright@paradise.net.nz> wrote in
news:Xns9F51A9D2E3crite40@216.196.97.131:

> Good day all!
> My latest build is a version of the VK5BR noise cancellor.
> So far (using different toroid cores from those specified) I have got
> about 3 "S" points of noise reduction.
> I am expecting a shipment of cores from Amidon in the next few days
> and will try the final version with 2 FT50-75 cores as specifid in the
> later "Amateur Radio" article.
> Basically though I am quite pleased with it. It means more
> adjustments, but in a rural location, but with bad power line noise,
> it seems to help. FYI, Don't go by the "radio communication" circuit.
> It has several errors. Look up VK5BR's own site with all the
> corrections. It would be very intersting to hear of others experience
> with this gadget. Anyone else made one?
> Cliff Wright ZL1BDA ex G3NIA
>

Well the unit is all operating now with the proper ferrite core transformers.
Results vary with band but on 7 MHz I an getting about 20 dB reduction in
background QRN. 14 MHz is not quite as marked but still about 15 dB.
Quite worthwhile! But one has to remember that this circuit reduces the
LOCAL noise background not ionispheric noise or QRM.
Overall I would recommend it to those troubled by electrical noise.
However I do have some reservations about the Low Q chokes used as front
end tuned circuits. I suspect that the phase shift one needs is not as
accurately obtained and it might work better with some high Q toroids in
their place. That will be tried next as soon as they arrive.
Another thing- Does anyone know of a source of adapters from surface
mountto DIL IC's. This is becoming more and more necessary as newer chips
are NOT being produced in DIL packages. I've had a lot of trouble with a
motor controller chip for an electric bicycle which was 24 pin Surface
mount only.

Clifford wright ZL1BDA ex G3NIA.

```
From -4389531278566307932
X-Google-Thread: fc2a5,18a425d1325c4a55
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.44.199 with SMTP id g7mr1734012pbm.30.1316170167018;
        Fri, 16 Sep 2011 03:49:27 -0700 (PDT)
Path: m9ni7438pbd.0!nntp.google.com!news1.google.com!goblin1!goblin.stu.neva.ru!
eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: atec77 <atec77@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Anyone with experience of the VK5BR noise canceller?
Date: Fri, 16 Sep 2011 20:49:21 +1000
Organization: A noiseless patient Spider
Lines: 43
Message-ID: <j4v9jk$4cg$1@dont-email.me>
References: <Xns9F51A9D2E3crite40@216.196.97.131>
<Xns9F626B98457D8crite40@216.196.97.131>
Mime-Version: 1.0
Injection-Date: Fri, 16 Sep 2011 10:49:26 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="boEWUuaP+eHgRsXSv318Bg";
     logging-data="4496"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+HcDOTYKdSRofs9wCZcOvB"
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:6.0.2) Gecko/20110902
Thunderbird/6.0.2
In-Reply-To: <Xns9F626B98457D8crite40@216.196.97.131>
Cancel-Lock: sha1:OqagmoROPpdXUWvIQLv9vYSp/xw=
Xref: news1.google.com rec.radio.amateur.homebrew:3113
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 16/09/2011 8:34 PM, clifford wright wrote:
> clifford wright<c.c.wright@paradise.net.nz>  wrote in
> news:Xns9F51A9D2E3crite40@216.196.97.131:
>
>> Good day all!
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>> I am expecting a shipment of cores from Amidon in the next few days
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>> Cliff Wright ZL1BDA ex G3NIA
>>
```

>
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> mountto DIL IC's. This is becoming more and more necessary as newer chips
> are NOT being produced in DIL packages. I've had a lot of trouble with a
> motor controller chip for an electric bicycle which was 24 pin Surface
> mount only.
> Clifford wright ZL1BDA ex G3NIA.

Wouldn't it make more sense to sort the local noises and that should get
you a similar amount , it did here easily being worth several s points

--
X-No-Archive: Yes

```
From -1234250520723516838
X-Google-Thread: fc2a5,18a425d1325c4a55
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.14.132 with SMTP id p4mr1793249pbc.14.1316174845944;
        Fri, 16 Sep 2011 05:07:25 -0700 (PDT)
MIME-Version: 1.0
Path: m9ni7475pbd.0!nntp.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-03.dc1.easynews.com.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Anyone with experience of the VK5BR noise canceller?
From: Doug White <gwhite@alum.mit.edu>
References: <Xns9F51A9D2E3crite40@216.196.97.131>
<Xns9F626B98457D8crite40@216.196.97.131>
Message-ID: <Xns9F6252A4AA0C9gwhitealummitedu@69.16.186.7>
User-Agent: Xnews/2009.05.01
Lines: 49
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Fri, 16 Sep 2011 12:07:24 GMT
Xref: news1.google.com rec.radio.amateur.homebrew:3114
```

clifford wright <c.c.wright@paradise.net.nz> wrote in
news:Xns9F626B98457D8crite40@216.196.97.131:

> clifford wright <c.c.wright@paradise.net.nz> wrote in
> news:Xns9F51A9D2E3crite40@216.196.97.131:
>
>> Good day all!
>> My latest build is a version of the VK5BR noise cancellor.
>> So far (using different toroid cores from those specified) I have got
>> about 3 "S" points of noise reduction.
>> I am expecting a shipment of cores from Amidon in the next few days
>> and will try the final version with 2 FT50-75 cores as specifid in
>> the later "Amateur Radio" article.
>> Basically though I am quite pleased with it. It means more
>> adjustments, but in a rural location, but with bad power line noise,
>> it seems to help. FYI, Don't go by the "radio communication" circuit.
>> It has several errors. Look up VK5BR's own site with all the
>> corrections. It would be very intersting to hear of others experience
>> with this gadget. Anyone else made one?
>> Cliff Wright ZL1BDA ex G3NIA
>>
>
> Well the unit is all operating now with the proper ferrite core
> transformers.
> Results vary with band but on 7 MHz I an getting about 20 dB reduction
> in background QRN. 14 MHz is not quite as marked but still about 15
> dB. Quite worthwhile! But one has to remember that this circuit
> reduces the LOCAL noise background not ionispheric noise or QRM.
> Overall I would recommend it to those troubled by electrical noise.
> However I do have some reservations about the Low Q chokes used as
> front end tuned circuits. I suspect that the phase shift one needs is
> not as accurately obtained and it might work better with some high Q
> toroids in their place. That will be tried next as soon as they
> arrive. Another thing- Does anyone know of a source of adapters from
> surface mountto DIL IC's. This is becoming more and more necessary as
> newer chips are NOT being produced in DIL packages. I've had a lot of
> trouble with a motor controller chip for an electric bicycle which was
> 24 pin Surface mount only.
> Clifford wright ZL1BDA ex G3NIA.

There are a couple of adapter board vendors out ther. Unfortunately,
they typically cost more than the IC's. Digikey sells "surfboards", and
there are also these guys:

http://www.adapt-plus.com/products/adapters/prod_smt_board.html

http://www.schmartboard.com/index.asp?page=products_smttodip&id=450

Doug White

From -8651097819994087252

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X-Google-Thread: fc2a5,165f7d62dc7aa9ec,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.58.168 with SMTP id s8mr17460pbq.15.1316217417214;
        Fri, 16 Sep 2011 16:56:57 -0700 (PDT)
Path: m9ni7830pbd.0!nntp.google.com!news1.google.com!news.glorb.com!
feeder.erje.net!eternal-september.org!feeder.eternal-september.org!.POSTED!not-
for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FS Realistic Scanning Receiver
Date: Fri, 16 Sep 2011 18:57:00 -0500
Organization: A noiseless patient Spider
Lines: 7
Message-ID: <j50no7$s4s$5@dont-email.me>
Mime-Version: 1.0
Injection-Date: Fri, 16 Sep 2011 23:56:56 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="femdWFrCCglzKUKHHc4IVA";
     logging-data="28828"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+gnVA2NmSJpsnusZohx8tH"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.8) Gecko/
20050511 Mnenhy/0.7.2.0
X-Accept-Language: en-us
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 110916-1, 09/16/2011), Outbound message
Cancel-Lock: sha1:qPwu5cpyV8L4+BBnV9y7K4QSHCA=
Xref: news1.google.com rec.radio.amateur.homebrew:3115
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
```

I have a Realistic PRO-2003 AM/FM scanning receiver for sale. It is in very
good shape and comes with the manual. I'm asking $45 plus postage for it.
You may contact me off the newsgroup.

Thanks

Henry

```
From 5445603311837238043
X-Google-Thread: fc2a5,18a425d1325c4a55
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.44.199 with SMTP id g7mr101636pbm.30.1316228933307;
        Fri, 16 Sep 2011 20:08:53 -0700 (PDT)
MIME-Version: 1.0
Path: m9ni7931pbd.0!nntp.google.com!news1.google.com!news2.google.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 16 Sep 2011 22:08:52 -0500
Newsgroups: rec.radio.amateur.homebrew
```

Subject: Re: Anyone with experience of the VK5BR noise canceller?
From: clifford wright <c.c.wright@paradise.net.nz>
References: <Xns9F51A9D2E3crite40@216.196.97.131>
<Xns9F626B98457D8crite40@216.196.97.131>
<Xns9F6252A4AA0C9gwhitealummitedu@69.16.186.7>
Organization: Wright retro radio
Message-ID: <Xns9F63200174ED5crite40@216.196.97.131>
User-Agent: Xnews/5.04.25
Date: Fri, 16 Sep 2011 22:08:52 -0500
Lines: 26
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
PShzSlE3v0W580UXMGC0txie6iflGtVDZ53V5FjYd9Y8qGt+oYuLjMGup9oxd6EXt9FSKdADTUqv5yX!
XatFHa0wUwnkw+aT16axu0YUWt6/rK3rp7hb7w5tpc6ablnYnD+ntPstFVOMulgwkmg=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2322
Xref: news1.google.com rec.radio.amateur.homebrew:3116

Doug White <gwhite@alum.mit.edu> wrote in
news:Xns9F6252A4AA0C9gwhitealummitedu@69.16.186.7:

>
>

Thanks Doug I will follow that up.
After all the chips only cost $5 each so paying up to $10
for an adapter wouldn't be too high a price to pay, it saves so much
trouble. I'm 71 and I surprised myself in that, I was, in the end able to
wire all 24 pins. I'll have to redo a few though and I'm very concerned
about the durability of the joints under vibration as it is an electric
bike controller for a BLDC sensorless electric motor.

Atec77. I'm a bit puzzled about your response!
The whole idea of the system is to reduce the QRN we get around here from
nearby elderly 11 Kv power lines above ground.
W have underground power in our subdivision but the crud is (We have tested
it) radiated from the lines themselves.
Obviously it is MUCH easier to null out local stuff like this than randomly
phased and levelled long distance signals. That is what VK5BR set out to
do, with some success.
When I have my new delivery of toroids I will try out my theory on the
tuned phase shift network on the noise amplifier. If there is a notable
difference I'll post it here.
Best Regards Clifford Wright ZL1BDA ex G3NIA.

From 2669492792203143337
X-Google-Thread: fc2a5,18a425d1325c4a55

```
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.44.199 with SMTP id g7mr802618pbm.30.1316309980905;
        Sat, 17 Sep 2011 18:39:40 -0700 (PDT)
Path: m9ni8601pbd.0!nntp.google.com!news1.google.com!goblin2!goblin.stu.neva.ru!
xlned.com!feeder3.xlned.com!feeder.news-service.com!feeder.news-service.com!
eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: atec77 <atec77@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Anyone with experience of the VK5BR noise canceller?
Date: Sun, 18 Sep 2011 11:37:45 +1000
Organization: A noiseless patient Spider
Lines: 50
Message-ID: <j53i4r$c6u$1@dont-email.me>
References: <Xns9F51A9D2E3crite40@216.196.97.131>
<Xns9F626B98457D8crite40@216.196.97.131>
<Xns9F6252A4AA0C9gwhitealummitedu@69.16.186.7>
<Xns9F63200174ED5crite40@216.196.97.131>
Mime-Version: 1.0
Injection-Date: Sun, 18 Sep 2011 01:39:40 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="boEWUuaP+eHgRsXSv318Bg";
     logging-data="12510"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+/Uiw/YaiSUVRi4Zf2IwUU"
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:6.0.2) Gecko/20110902
Thunderbird/6.0.2
In-Reply-To: <Xns9F63200174ED5crite40@216.196.97.131>
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Xref: news1.google.com rec.radio.amateur.homebrew:3117
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 17/09/2011 1:08 PM, clifford wright wrote:
> Doug White<gwhite@alum.mit.edu>  wrote in
> news:Xns9F6252A4AA0C9gwhitealummitedu@69.16.186.7:
>
>>
>>
>
> Thanks Doug I will follow that up.
> After all the chips only cost $5 each so paying up to $10
> for an adapter wouldn't be too high a price to pay, it saves so much
> trouble. I'm 71 and I surprised myself in that, I was, in the end able to
> wire all 24 pins. I'll have to redo a few though and I'm very concerned
> about the durability of the joints under vibration as it is an electric
> bike controller for a BLDC sensorless electric motor.
>
> Atec77. I'm a bit puzzled about your response!
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> W have underground power in our subdivision but the crud is (We have tested
> it) radiated from the lines themselves.
> Obviously it is MUCH easier to null out local stuff like this than randomly
```

> phased and levelled long distance signals. That is what VK5BR set out to
> do, with some success.
> When I have my new delivery of toroids I will try out my theory on the
> tuned phase shift network on the noise amplifier. If there is a notable
> difference I'll post it here.
> Best Regards Clifford Wright ZL1BDA ex G3NIA.

My question relates to the qrm you accept , we recently solved a problem here with an HT line which was determined by various means to be at fault . The power company refused to consider their spark transmitter line was at fault but after taking legal advice and making formal complaint they fixed the problem replacing some ceramics dropping the qrm some 3 to 4 s points and oddly the incoming 240vac got much cleaner . You do as an individual have rights so although laudable in the attempt to remove the noise (and I admit I have not been studying the discussion) I don't remember mention of your complaints process , feel free to refresh my memory if you wish , once sourced the problem as you discovered may be addressed by various methods , personally I have several tx and rx antennas which when switched between various loop and wires is very successful in assisting communications plus the use of dsp filtering has altered the radio experience considerably ,VA3AGM did some very useful work which is inexpensive and works very well with my sdr and may be used equally with almost any radio you desire . Personally I don't particularly like digital process and revel in the audio on my KWM2 and AWA but sometimes have little choice , so maybe I can help ?

--
X-No-Archive: Yes

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From -8048254282840582007
X-Google-Thread: fc2a5,ebc17d932585a020,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.6.6 with SMTP id w6mr747532pbw.33.1316318509858;
        Sat, 17 Sep 2011 21:01:49 -0700 (PDT)
Path: m9ni8668pbd.0!nntp.google.com!news1.google.com!postnews.google.com!
u19g2000vbm.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT VIDEOS SEXY ROMANTIC PHOTOS DOWNLOAD
Date: Sat, 17 Sep 2011 21:01:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 63
Message-ID: <61fdf555-0bd0-4bb8-8209-2a0a61db72dd@u19g2000vbm.googlegroups.com>
NNTP-Posting-Host: 117.199.241.13
Mime-Version: 1.0
X-Trace: posting.google.com 1316318509 24939 127.0.0.1 (18 Sep 2011 04:01:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 18 Sep 2011 04:01:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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Injection-Info: u19g2000vbm.googlegroups.com; posting-host=117.199.241.13;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.22)
Gecko/20110902 Firefox/3.6.22,gzip(gfe)
Xref: news1.google.com rec.radio.amateur.homebrew:3118
Content-Type: text/plain; charset=ISO-8859-1

ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

---

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From -3033750083953426611
X-Google-Thread: fc2a5,18a425d1325c4a55
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.14.132 with SMTP id p4mr905383pbc.14.1316322720796;
        Sat, 17 Sep 2011 22:12:00 -0700 (PDT)
Path: m9ni8700pbd.0!nntp.google.com!news1.google.com!npeer03.iad.highwinds-
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nx02.iad01.newshosting.com!newshosting.com!news2.euro.net!feeder.news-service.com!
eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: atec77 <atec77@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Anyone with experience of the VK5BR noise canceller?
Date: Sun, 18 Sep 2011 15:10:56 +1000
Organization: A noiseless patient Spider
Lines: 21
Message-ID: <j53uh3$33e$1@dont-email.me>
References: <Xns9F51A9D2E3crite40@216.196.97.131>
<Xns9F626B98457D8crite40@216.196.97.131>
<Xns9F6252A4AA0C9gwhitealummitedu@69.16.186.7>
<Xns9F63200174ED5crite40@216.196.97.131> <j53i4r$c6u$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Sun, 18 Sep 2011 05:11:00 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="boEWUuaP+eHgRsXSv318Bg";
     logging-data="3182"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/1QsXk/lSUhdE+IfuN/4IB"
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:6.0.2) Gecko/20110902
Thunderbird/6.0.2
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In-Reply-To: <j53i4r$c6u$1@dont-email.me>
Cancel-Lock: sha1:5qd6FP/ekmHVTM/TEp+YkmUSIc4=
Xref: news1.google.com rec.radio.amateur.homebrew:3119
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 18/09/2011 11:37 AM, atec77 wrote:
> On 17/09/2011 1:08 PM, clifford wright wrote:
>> Doug White<gwhite@alum.mit.edu> wrote in
>> news:Xns9F6252A4AA0C9gwhitealummitedu@69.16.186.7:
>>
>>>
>>>
>>
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>> wire all 24 pins. I'll have to redo a few though and I'm very concerned
>> about the durability of the joints under vibration as it is an electric
>> bike controller for a BLDC sensorless electric motor.
>>
>> Atec77. I'm a bit puzzled about your response!
Coincidently scan ebay for one of these , building one is cheap enough
and my copy works better than I expected

http://www.universal-radio.com/CATALOG/preamps/3541.html


From 7499914073823085202
X-Google-Thread: 241b302a50,c1e95ff60e06992d,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m38g2000vbn.googlegroups.com!not-for-
mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SOUTH INDIAN HOT ACTRESS
Date: Mon, 19 Sep 2011 04:51:21 -0700 (PDT)
Organization: http://groups.google.com
Lines: 53
Message-ID: <8dbcef29-3a9c-4d45-9917-cc286aa1aac4@m38g2000vbn.googlegroups.com>
NNTP-Posting-Host: 117.199.249.190
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1316433196 18216 127.0.0.1 (19 Sep 2011 11:53:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Sep 2011 11:53:16 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m38g2000vbn.googlegroups.com; posting-host=117.199.249.190;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
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X-Google-Header-Order: HUALESNKRC
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 Gecko/20110303 Firefox/3.6.15,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4645
```

FOR GOOD JOBS SITES TO YOU
http://goodjobssites.blogspot.com/

FOR FAST UPDATES IN TELUGU FILM INDUSTRY
TAMIL ACTRESS HOT PHOTO SHOOT
http://allyouwants.blogspot.com/2011/08/tamil-actress.html
SOUTH INDIAN HOT ACTRESS PICS
http://allyouwants.blogspot.com/2011/08/hot-actress.html
DEEPIKA PADUKONE IN DUM MARO DUM MOVIE
http://allyouwants.blogspot.com/2011/08/deepika-in-dum-maro-dum.html
PRIYAMANI SPICY PHOTOS IN COW GIRL
http://allyouwants.blogspot.com/2011/02/priyamani-spicy-photo-shoot-cow-girl.html
KAJAL HOT PHOTOS IN SAREE
http://allyouwants.blogspot.com/2011/06/kajal-very-spice-pics.html

FOR ONLY HOT GUYS SEE THIS
KAJAL AGARWAL LATEST HOT WITHOUT TOP
http://hotactress-kalyani.blogspot.com/2011/08/kajal-agarwal-hot-photos.html
PRANITHA LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/09/pranitha-hot.html
HOT KATRINAKAIF WALLPAPERS
http://hotactress-kalyani.blogspot.com/2011/08/katrina-kaif-hot.html
SAMANTHA HOT WALLPAPERS
http://hotactress-kalyani.blogspot.com/2011/09/samantha-hot.html
TAMANNA HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/tamanna-hot.html
HOT MALLU ACTRESS BHAMA
http://hotactress-kalyani.blogspot.com/2011/09/bhama-hot.html
TOLLYWOOD HOT ACTRESSES
http://hotactress-kalyani.blogspot.com/2011/08/hot-actrsess.html
SONAKSHI SINHA HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/09/sonakshi-sinha-hot.html
PRIYANKA CHOPRA LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/priyanka-chopra-hot.html

LATEST   AMISHA PATEL HOT PICS
http://hotactress-kalyani.blogspot.com/2011/08/amisha-patel-hot.html
TAPSEE DIFFERENT STILLS
http://hotactress-kalyani.blogspot.com/2011/08/tapsee-hot.html
PRIYAMANI HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/priyamani-hot.html

KATRINA KAIF HOT IMAGES
http://hotactress-katrina.blogspot.com/2011/08/katrina-kaif-hot.html
TOP 15 HOT BOLLYWOOD KISSES

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http://hotactress-katrina.blogspot.com/2011/08/bollywood-kisses.html
                  KAJAL AGARWAL HOT PICS
http://hotactress-katrina.blogspot.com/2011/09/kajal-agarwal.html
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From -5284044042666160310
X-Google-Thread: fc2a5,c1e95ff60e06992d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.66.161 with SMTP id g1mr2987995pbt.10.1316543015114;
        Tue, 20 Sep 2011 11:23:35 -0700 (PDT)
Path: lh7ni1276pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
w28g2000yqw.googlegroups.com!not-for-mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SOUTH INDIAN HOT ACTRESS
Date: Tue, 20 Sep 2011 11:23:34 -0700 (PDT)
Organization: http://groups.google.com
Lines: 53
Message-ID: <08ac698f-8a8e-44d7-84a4-1068a883836f@w28g2000yqw.googlegroups.com>
NNTP-Posting-Host: 117.199.247.186
Mime-Version: 1.0
X-Trace: posting.google.com 1316543014 27152 127.0.0.1 (20 Sep 2011 18:23:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 20 Sep 2011 18:23:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w28g2000yqw.googlegroups.com; posting-host=117.199.247.186;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.22)
 Gecko/20110902 Firefox/3.6.22,gzip(gfe)
Xref: news1.google.com rec.radio.amateur.homebrew:3121
Content-Type: text/plain; charset=ISO-8859-1

                  FOR GOOD JOBS SITES TO YOU
                http://goodjobssites.blogspot.com/



               FOR FAST UPDATES IN TELUGU FILM INDUSTRY
                   TAMIL ACTRESS HOT  PHOTO SHOOT
http://allyouwants.blogspot.com/2011/08/tamil-actress.html
             SOUTH INDIAN HOT ACTRESS PICS
http://allyouwants.blogspot.com/2011/08/hot-actress.html
DEEPIKA PADUKONE IN DUM MARO DUM MOVIE
http://allyouwants.blogspot.com/2011/08/deepika-in-dum-maro-dum.html
                   PRIYAMANI SPICY PHOTOS IN COW GIRL
```

```
http://allyouwants.blogspot.com/2011/02/priyamani-spicy-photo-shoot-cow-girl.html
                   KAJAL HOT PHOTOS IN SAREE
http://allyouwants.blogspot.com/2011/06/kajal-very-spice-pics.html

              FOR ONLY HOT GUYS SEE THIS
             KAJAL AGARWAL LATEST HOT WITHOUT TOP
http://hotactress-kalyani.blogspot.com/2011/08/kajal-agarwal-hot-photos.html
          TAMANNA HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/tamanna-hot.html
           PRANITHA LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/09/pranitha-hot.html
            HOT KATRINAKAIF WALLPAPERS
http://hotactress-kalyani.blogspot.com/2011/08/katrina-kaif-hot.html
           SAMANTHA HOT WALLPAPERS
http://hotactress-kalyani.blogspot.com/2011/09/samantha-hot.html
             HOT MALLU ACTRESS BHAMA
http://hotactress-kalyani.blogspot.com/2011/09/bhama-hot.html
             TOLLYWOOD HOT ACTRESSES
http://hotactress-kalyani.blogspot.com/2011/08/hot-actrsess.html
            SONAKSHI SINHA HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/09/sonakshi-sinha-hot.html
          PRIYANKA CHOPRA LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/priyanka-chopra-hot.html

                  LATEST    AMISHA PATEL HOT PICS
http://hotactress-kalyani.blogspot.com/2011/08/amisha-patel-hot.html
               TAPSEE DIFFERENT STILLS
http://hotactress-kalyani.blogspot.com/2011/08/tapsee-hot.html
             PRIYAMANI HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/priyamani-hot.html

    KATRINA KAIF HOT IMAGES
http://hotactress-katrina.blogspot.com/2011/08/katrina-kaif-hot.html
           TOP 15 HOT BOLLYWOOD KISSES
http://hotactress-katrina.blogspot.com/2011/08/bollywood-kisses.html
                  KAJAL AGARWAL HOT PICS
http://hotactress-katrina.blogspot.com/2011/09/kajal-agarwal.html





From 508887936359988111
X-Google-Thread: fc2a5,18a425d1325c4a55
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.13.100 with SMTP id g4mr143326pbc.25.1316558507236;
        Tue, 20 Sep 2011 15:41:47 -0700 (PDT)
MIME-Version: 1.0
Path: lh7ni1406pbb.0!nntp.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
```

NNTP-Posting-Date: Tue, 20 Sep 2011 17:41:46 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Anyone with experience of the VK5BR noise canceller?
From: clifford wright <c.c.wright@paradise.net.nz>
References: <Xns9F51A9D2E3crite40@216.196.97.131>
<Xns9F626B98457D8crite40@216.196.97.131>
<Xns9F6252A4AA0C9gwhitealummitedu@69.16.186.7>
<Xns9F63200174ED5crite40@216.196.97.131> <j53i4r$c6u$1@dont-email.me>
Organization: Wright retro radio
Message-ID: <Xns9F676CC5AFBDFcrite40@216.196.97.131>
User-Agent: Xnews/5.04.25
Date: Tue, 20 Sep 2011 17:41:46 -0500
Lines: 82
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-oxSFfUDGFcSJW+UiGpPXczVdcWH2oE+K4I5sKLpjmjj1/j6m/
lHOWCowxU22VaL0vz9vWpj/JCXKfRD!
jmyUZfw9MUCgrsNdQybIi92elkt7k+ProMpNvdotF4k08P+4uFjtjnT98pvcJ45g8WQ=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 5920
Xref: news1.google.com rec.radio.amateur.homebrew:3122

atec77 <atec77@hotmail.com> wrote in news:j53i4r$c6u$1@dont-email.me:

> On 17/09/2011 1:08 PM, clifford wright wrote:
>> Doug White<gwhite@alum.mit.edu> wrote in
>> news:Xns9F6252A4AA0C9gwhitealummitedu@69.16.186.7:
>>
>>>
>>>
>>
>> Thanks Doug I will follow that up.
>> After all the chips only cost $5 each so paying up to $10
>> for an adapter wouldn't be too high a price to pay, it saves so much
>> trouble. I'm 71 and I surprised myself in that, I was, in the end
>> able to wire all 24 pins. I'll have to redo a few though and I'm very
>> concerned about the durability of the joints under vibration as it is
>> an electric bike controller for a BLDC sensorless electric motor.
>>
>> Atec77. I'm a bit puzzled about your response!
>> The whole idea of the system is to reduce the QRN we get around here
>> from nearby elderly 11 Kv power lines above ground.
>> W have underground power in our subdivision but the crud is (We have
>> tested it) radiated from the lines themselves.
>> Obviously it is MUCH easier to null out local stuff like this than
>> randomly phased and levelled long distance signals. That is what
>> VK5BR set out to do, with some success.
>> When I have my new delivery of toroids I will try out my theory on
>> the tuned phase shift network on the noise amplifier. If there is a

>> notable difference I'll post it here.
>> Best Regards Clifford Wright ZL1BDA ex G3NIA.
> My question relates to the qrm you accept , we recently solved a
> problem here with an HT line which was determined by various means to
> be at fault . The power company refused to consider their spark
> transmitter line was at fault but after taking legal advice and making
> formal complaint they fixed the problem replacing some ceramics
> dropping the qrm some 3 to 4 s points and oddly the incoming 240vac
> got much cleaner . You do as an individual have rights so although
> laudable in the attempt
>   to remove the noise (and I admit I have not been studying the
> discussion) I don't remember mention of your complaints process , feel
> free to refresh my memory if you wish , once sourced the problem as
> you discovered may be addressed by various methods , personally I have
> several tx and rx antennas which when switched between various loop
> and wires is very successful in assisting communications plus the use
> of dsp filtering has altered the radio experience considerably ,VA3AGM
> did some very useful work which is inexpensive and works very well
> with my sdr and may be used equally with almost any radio you desire .
> Personally I don't particularly like digital process and revel in the
> audio on my KWM2 and AWA but sometimes have little choice , so maybe I
> can help ?
>

Ah now I understand! Well both my neighbouring fellow ham and I had
already follwed this up as far as we could go, Indeed we did get quite an
improvement on the original situation. We had the radio inspectors from
Auckland out here twice and weny out on a survey with them by car, with a
whole lot of gear to find tha sources of the interference.
This resulted in a reduction from S8 on 40 M down to about S5/6. The
trouble is that I have always been interested in weak signal work on 20
when I work the Antipodes of the Auckland area (Spain and the Western
Mediterranean) when the band is apparently very dead. VK5BR's device got
the noise down almost as much again and I have hopes of an improved and
higher Q phasing network imprving on that.
BTW my fellow ham actually works for one of the local power companies!
NOT our local one unfortunately!
Of course out here in the country we always have the dreaded electric
fences clicking in the background!
As to aerials. Well I have a reasonable QTH near the top of a hill, but
as I have other hobbies, including amateur astronomy I don't have
unlimited space (the observatory has to go somewhere).
So I have a G5RV with proper open wire feeders and the mast that supports
it is tuned to behave as a 5/8 wave vertical on 20m as well.
Overall I would say that the vertical is about 4 Decibels worse than the
G5RV as far as noise pickup is concerned.
My noise antenna runs along the top of a fence below the G5RV for about
3/4 of a wavelength at 14 MHz.
As an old timer I'm afraid that I am not very enamoured of digital radio
, it's OK in synthesisers etc but doing it all in software takes all the
"human" interface out for me. I still use a 1918 morse key for example.
Some of the gear I have seen lately, you might just as well get on the
internet!!! However I still build a lot of my own gear and the commercial

stuff I use has been heavily modified,improved and upgraded.
73's Cliff Wright ZL1BDA ex G3NIA

```
From -4348822210251704755
X-Google-Thread: fc2a5,f8a0f7a833254e8a,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.33.71 with SMTP id p7mr17349160pbi.1.1316959411388;
        Sun, 25 Sep 2011 07:03:31 -0700 (PDT)
Path: lh7ni4649pbb.0!nntp.google.com!news1.google.com!npeer02.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
post01.iad.highwinds-media.com!newsfe07.iad.POSTED!00000000!not-for-mail
From: " Tuuk" <abra@cadabra.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Antenna advice please??
Lines: 20
MIME-Version: 1.0
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18463
Message-ID: <TwGfq.43416$Ol1.14819@newsfe07.iad>
NNTP-Posting-Host: 173.238.192.41
X-Complaints-To: abuse@cogeco.net
X-Trace: newsfe07.iad 1316959411 173.238.192.41 (Sun, 25 Sep 2011 14:03:31 UTC)
NNTP-Posting-Date: Sun, 25 Sep 2011 14:03:31 UTC
Date: Sun, 25 Sep 2011 10:03:33 -0400
Xref: news1.google.com rec.radio.amateur.homebrew:3123
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
```

Hi,
I have a big self supporting tower in the yard, it is grounded by grounding rods and of course itself. I am attaching two satelite dishes to the tower. The most practical way is using 2x4 wood, this will work great just screwing them to the wood and it will squeeze itself to the brackets and support nicely. I am wondering about the connection to the tower because there will not be grounded to the tower. There wont be any connection (metal to metal) form the satelite dish and the tower, that leads me to believe that the only grounding would be the shielded cable which gets grounded to the nice new 50" plazma.

My question is should i ground that? Should the satelite dish itself be grounded to the tower? Is there any reason for this? Safety wise or interference wise? It would be very simple to do, but not sure if I should or want to. Please give me advice as to either ground the dish to tower or not to. Does anyone think there will be issues? Should I or shouldn't I?

Thanks for any advice.

From 203084545305435662
X-Google-Thread: 241b302a50,f8a0f7a833254e8a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna advice please??
Date: Sun, 25 Sep 2011 10:13:19 -0400
Organization: A noiseless patient Spider
Lines: 26
Message-ID: <j5nctv$6d6$2@dont-email.me>
References: <TwGfq.43416$Ol1.14819@newsfe07.iad>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sun, 25 Sep 2011 14:13:19 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="Ym4E8THtcmFvjNEYFujNKQ";
     logging-data="6566"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/HoQ2Rg/iHgXS3fxBSBecsqa2l3rwGXxM="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.21) Gecko/20110831 Thunderbird/3.1.13
In-Reply-To: <TwGfq.43416$Ol1.14819@newsfe07.iad>
Cancel-Lock: sha1:IitGN/Rcx9Kj1BPRSkj5wlBgJQE=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4946

On 09/25/2011 10:03 AM, Tuuk wrote:
> Hi,
> I have a big self supporting tower in the yard, it is grounded by grounding
> rods and of course itself. I am attaching two satelite dishes to the tower.
> The most practical way is using 2x4 wood, this will work great just
> screwing
> them to the wood and it will squeeze itself to the brackets and support
> nicely. I am wondering about the connection to the tower because there will
> not be grounded to the tower. There wont be any connection (metal to metal)
> form the satelite dish and the tower, that leads me to believe that the
> only
> grounding would be the shielded cable which gets grounded to the nice new
> 50" plazma.
>
> My question is should i ground that? Should the satelite dish itself be
> grounded to the tower? Is there any reason for this? Safety wise or
> interference wise? It would be very simple to do, but not sure if I should
> or want to. Please give me advice as to either ground the dish to tower or
> not to. Does anyone think there will be issues? Should I or shouldn't I?
>

> Thanks for any advice.
>
>

If the feedline is unbalanced then at some point it should be grounded to avoid "static" noise. The antenna should be connected to ground though a lightning arrester for safety.

```
From 1431232151871313730
X-Google-Thread: 241b302a50,f8a0f7a833254e8a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe02.iad.POSTED!00000000!not-for-mail
From: " Tuuk" <abra@cadabra.com>
Newsgroups: rec.radio.amateur.homebrew
References: <TwGfq.43416$Ol1.14819@newsfe07.iad> <j5nctv$6d6$2@dont-email.me>
In-Reply-To: <j5nctv$6d6$2@dont-email.me>
Subject: Re: Antenna advice please??
Lines: 55
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18463
Message-ID: <EqHfq.54$xY3.36@newsfe02.iad>
NNTP-Posting-Host: 173.238.192.41
X-Complaints-To: abuse@cogeco.net
X-Trace: newsfe02.iad 1316963108 173.238.192.41 (Sun, 25 Sep 2011 15:05:08 UTC)
NNTP-Posting-Date: Sun, 25 Sep 2011 15:05:08 UTC
Date: Sun, 25 Sep 2011 11:05:10 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:4947
```

Hi

The feedline is the cable coax, there is no balun or tuner inline I would imagine. Just the simple satelite dish with dual LNB and it receives from two different satelites.

So it is in my best interests, best viewing interests, best protection of the new TV to ground out the satelite dish, its arm, its base to the tower and that in turn will ground out into the ground obviously.

Simple copper connection between tower and satellite. Easily done.

Thanks for the advice.

```
"Kenneth Scharf" <wa2mze@bellsouth.net> wrote in message
news:j5nctv$6d6$2@dont-email.me...
> On 09/25/2011 10:03 AM,  Tuuk wrote:
>> Hi,
>> I have a big self supporting tower in the yard, it is grounded by
>> grounding
>> rods and of course itself. I am attaching two satelite dishes to the
>> tower.
>> The most practical way is using 2x4 wood, this will work great just
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>> them to the wood and it will squeeze itself to the brackets and support
>> nicely. I am wondering about the connection to the tower because there
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>> not be grounded to the tower. There wont be any connection (metal to
>> metal)
>> form the satelite dish and the tower, that leads me to believe that the
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>> grounding would be the shielded cable which gets grounded to the nice new
>> 50" plazma.
>>
>> My question is should i ground that? Should the satelite dish itself be
>> grounded to the tower? Is there any reason for this? Safety wise or
>> interference wise? It would be very simple to do, but not sure if I
>> should
>> or want to. Please give me advice as to either ground the dish to tower
>> or
>> not to. Does anyone think there will be issues? Should I or shouldn't I?
>>
>> Thanks for any advice.
>>
>>
> If the feedline is unbalanced then at some point it should be grounded to
> avoid "static" noise.  The antenna should be connected to ground though a
> lightning arrester for safety.
>



From -7292268477677880723
X-Google-Thread: 241b302a50,f8a0f7a833254e8a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 25 Sep 2011 10:17:43 -0500
```

Reply-To: "Ralph Mowery" <rmowery28146@earthlink.net>
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <TwGfq.43416$Ol1.14819@newsfe07.iad> <j5nctv$6d6$2@dont-email.me> <EqHfq.54$xY3.36@newsfe02.iad>
Subject: Re: Antenna advice please??
Date: Sun, 25 Sep 2011 11:17:43 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <DIydnZVVl76K2-LTnZ2dnUVZ_qCdnZ2d@earthlink.com>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.148.196.49
X-Trace: sv3-i3OTE5RXbzP6q1RzVz2KlHG17sQPazPQZphLyx0YAMkTmuQ1wymf4+eLX6exAND355yQmIV1DN5Anw1!X/lgHOriTUfvgygJUxQhP2PQGRkfZNSPCSYUxA/6k9/W4Gjro4vyFznOhWUZs6rRNK5QNR1rCx1h!rCiHJSq0jA7KBNssUD7Rug9VXUavhFCQcWY1a9s=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2110
Xref: g2news1.google.com rec.radio.amateur.homebrew:4651

" Tuuk" <abra@cadabra.com> wrote in message
news:EqHfq.54$xY3.36@newsfe02.iad...
> Hi
>
> The feedline is the cable coax, there is no balun or tuner inline I would
> imagine. Just the simple satelite dish with dual LNB and it receives from
> two different satelites.
>
> So it is in my best interests, best viewing interests, best protection of
> the new TV to ground out the satelite dish, its arm, its base to the tower
> and that in turn will ground out into the ground obviously.
>
> Simple copper connection between tower and satellite. Easily done.
>
> Thanks for the advice.
>

If the tower is galvanized steel, do not hook the copper directly to it.
You need a clamp to go between the two differant kinds of metel. If not ,
there will be corosion and could weaken the tower.
You could always use a piece of galvanized wire and stainless steel clamps.

```
From -3368811466420501809
X-Google-Thread: fc2a5,f8a0f7a833254e8a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.38.134 with SMTP id g6mr17773473pbk.6.1316966344049;
        Sun, 25 Sep 2011 08:59:04 -0700 (PDT)
MIME-Version: 1.0
Path: lh7ni4701pbb.0!nntp.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!
newshosting.com!198.186.194.249.MISMATCH!transit3.readnews.com!news-
out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: "Geoffrey S. Mendelson" <gsm@mendelson.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna advice please??
Date: Sun, 25 Sep 2011 15:59:03 +0000 (UTC)
Organization: MGT Consulting
Lines: 13
Message-ID: <slrnj7ujma.l2d.gsm@cable.mendelson.com>
References: <TwGfq.43416$Ol1.14819@newsfe07.iad>
 <j5nctv$6d6$2@dont-email.me> <EqHfq.54$xY3.36@newsfe02.iad>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 85.65.228.114.dynamic.barak-online.net
X-Trace: max.inside.misty.com 1316966343 7195 85.65.228.114 (25 Sep 2011 15:59:03
GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Sun, 25 Sep 2011 15:59:03 +0000 (UTC)
User-Agent: slrn/pre1.0.0-11 (Linux)
Xref: news1.google.com rec.radio.amateur.homebrew:3127


> Simple copper connection between tower and satellite. Easily done.

I assumme you meant between the tower and the satellite DISH. A copper
connection between the tower and the satellite would be awfuly expensive and
get tangled quickly. :-)

Geoff.



--
Geoffrey S. Mendelson N3OWJ/4X1GM
Making your enemy reliant on software you support is the best revenge.


From -3246944480578102485
X-Google-Thread: fc2a5,f8a0f7a833254e8a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.8.135 with SMTP id r7mr28766645pba.8.1317135717187;
        Tue, 27 Sep 2011 08:01:57 -0700 (PDT)
Path: lh7ni6024pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
```

```
hd1g2000vbb.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna advice please??
Date: Tue, 27 Sep 2011 08:00:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 12
Message-ID: <92ce44a6-44d4-46f0-812e-83e2eec61616@hd1g2000vbb.googlegroups.com>
References: <TwGfq.43416$Ol1.14819@newsfe07.iad> <j5nctv$6d6$2@dont-email.me>
 <EqHfq.54$xY3.36@newsfe02.iad> <DIydnZVVl76K2-LTnZ2dnUVZ_qCdnZ2d@earthlink.com>
NNTP-Posting-Host: 198.111.161.229
Mime-Version: 1.0
X-Trace: posting.google.com 1317135717 22885 127.0.0.1 (27 Sep 2011 15:01:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Sep 2011 15:01:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: hd1g2000vbb.googlegroups.com; posting-host=198.111.161.229;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLEUHNKC
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB7.1;
 .NET CLR 1.1.4322; InfoPath.1),gzip(gfe)
Xref: news1.google.com rec.radio.amateur.homebrew:3128
Content-Type: text/plain; charset=ISO-8859-1

Hey OM

You should only have one ground rod everything should ground to it. So
you should ground the dish to the tower with the shortest possible
ground wire preferribly copper strap.

I you have more than one ground rod then there can be standing voltage
difference between the ground rods which could be on the order of
thousands of volts.

73 OM
de N8ZU


From -1507306934276044511
X-Google-Thread: fc2a5,f8a0f7a833254e8a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.50.133 with SMTP id c5mr29126298pbo.2.1317139394878;
        Tue, 27 Sep 2011 09:03:14 -0700 (PDT)
Path: lh7ni6053pbb.0!nntp.google.com!news1.google.com!news2.google.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 27 Sep 2011 11:03:14 -0500
Date: Tue, 27 Sep 2011 16:03:08 +0000
From: Scott <acepilotREMOVE@bloomer.net>
```

User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.22) Gecko/20110902 Thunderbird/3.1.14
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna advice please??
References: <TwGfq.43416$Ol1.14819@newsfe07.iad> <j5nctv$6d6$2@dont-email.me> <EqHfq.54$xY3.36@newsfe02.iad> <DIydnZVVl76K2-LTnZ2dnUVZ_qCdnZ2d@earthlink.com> <92ce44a6-44d4-46f0-812e-83e2eec61616@hd1g2000vbb.googlegroups.com>
In-Reply-To: <92ce44a6-44d4-46f0-812e-83e2eec61616@hd1g2000vbb.googlegroups.com>
Message-ID: <lYKdnSaF5vhfbhzTnZ2dnUVZ_oqdnZ2d@bright.net>
Lines: 31
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-lXbU9qt92dh1APSBM0fMMvasIa0kJsYPtwS5iQLL9jHMa0J3fGQtlTEg9oqnfLxv2uO1xPMeJswAwvQ!C8p5AumwWFk+BBWKaoh5Fzoh+6z205E1MJoCu+HiGA2nCneyvNGUSiTxPXLDa075fMYneWz2iIVk!zXXtAjTNJw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2541
Xref: news1.google.com rec.radio.amateur.homebrew:3129
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 9-27-2011 15:00, raypsi wrote:
> Hey OM
>
> You should only have one ground rod everything should ground to it. So you should ground the dish to the tower with the shortest possible ground wire preferribly copper strap.
>
> I you have more than one ground rod then there can be standing voltage difference between the ground rods which could be on the order of thousands of volts.
>
> 73 OM
> de N8ZU

Not true. The "Bible" on grounding is contained in Motorola Standard R56. Chapter 4 deals with "outdoor" grounding and Chapter 5 deals with "indoor" grounding. 518 pages total!

We drive ground rods (usually 2 joined together with ground rod couplers) at each corner of our buildings and then bond #2 wire to each set of ground rods, forming a circle around the building and buried at 24"-30" or so. Another #2 wire is connected from this ring (at one point) to a single ground buss on the external wall of the building. We build a similar ring around the tower base. The tower ring is connected to the building ring. Page 102 of the R56 manual shows this...

http://www.radioandtrunking.com/downloads/motorola/R56_2005_manual.pdf

N0EDV

```
From 3773338583166923535
X-Google-Thread: 241b302a50,f8a0f7a833254e8a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!STARBAND.NET-a2kHrUvQQWlmc!not-for-mail
From: Bruce Gordon <fast@btpost.net>
Newsgroups: rec.radio.amateur.homebrew
Mail-Copies-To: poster
Subject: Re: Antenna advice please??
Organization: Bruce's Trading Post
References: <TwGfq.43416$Ol1.14819@newsfe07.iad> <j5nctv$6d6$2@dont-email.me>
<EqHfq.54$xY3.36@newsfe02.iad> <DIydnZVVl76K2-LTnZ2dnUVZ_qCdnZ2d@earthlink.com>
<92ce44a6-44d4-46f0-812e-83e2eec61616@hd1g2000vbb.googlegroups.com>
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
Date: Tue, 27 Sep 2011 10:16:28 -0800
Message-ID: <fast-2597B1.10161827092011@news.starband.net>
X-Complaints-To: abuse@usenetserver.com
Lines: 29
X-Trace: d81ca4e82131d31e5901f15463
Xref: g2news1.google.com rec.radio.amateur.homebrew:4655
```

In article
<92ce44a6-44d4-46f0-812e-83e2eec61616@hd1g2000vbb.googlegroups.com>,
raypsi <rborowiak@gmail.com> wrote:

> Hey OM
>
> You should only have one ground rod everything should ground to it. So
> you should ground the dish to the tower with the shortest possible
> ground wire preferribly copper strap.
>
> I you have more than one ground rod then there can be standing voltage
> difference between the ground rods which could be on the order of
> thousands of volts.
>
> 73 OM
> de N8ZU

Hmmm, Raypsi seems to be confusing Ground Rods, with the NEC Requirement of having only ONE Ground/Neutral Bonding Point, for each individual Distribution System, which is to be made at the Entrance Panel, or Main Panel, in the System. Ground Rods can be, as many as a user needs, or as few as ONE, depending on Soil Conductivity, and what is Grounded. For some PowerHouses in Alaska, there are as many as 10 Grounding Rods,

connected with Bare (0) Phosphor/Bronze Conductors placed around the
building, and bonded to each of the Diesel Gensets inside the building.
Just Say'en.... YMMV....

--
Bruce in Alaska   add path before the @ for email

```
From -5760517996479088756
X-Google-Thread: fc2a5,f8a0f7a833254e8a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.50.133 with SMTP id c5mr31150868pbo.2.1317164162138;
        Tue, 27 Sep 2011 15:56:02 -0700 (PDT)
Path: lh7ni6233pbb.0!nntp.google.com!news1.google.com!news2.google.com!
news.glorb.com!feeder.erje.net!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: atec77 <atec77@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna advice please??
Date: Wed, 28 Sep 2011 08:55:57 +1000
Organization: A noiseless patient Spider
Lines: 19
Message-ID: <j5tka0$efa$1@dont-email.me>
References: <TwGfq.43416$Ol1.14819@newsfe07.iad> <j5nctv$6d6$2@dont-email.me>
<EqHfq.54$xY3.36@newsfe02.iad> <DIydnZVVl76K2-LTnZ2dnUVZ_qCdnZ2d@earthlink.com>
<92ce44a6-44d4-46f0-812e-83e2eec61616@hd1g2000vbb.googlegroups.com>
Mime-Version: 1.0
Injection-Date: Tue, 27 Sep 2011 22:56:01 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="boEWUuaP+eHgRsXSv318Bg";
     logging-data="14826"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18jWW5SZHWxuyrGFistAlcd"
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:6.0.2) Gecko/20110902
Thunderbird/6.0.2
In-Reply-To: <92ce44a6-44d4-46f0-812e-83e2eec61616@hd1g2000vbb.googlegroups.com>
Cancel-Lock: sha1:PW39k1Boj2/sJz9MkjW2R6QyCUk=
Xref: news1.google.com rec.radio.amateur.homebrew:3131
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 28/09/2011 1:00 AM, raypsi wrote:
> Hey OM
>
> You should only have one ground rod everything should ground to it. So
> you should ground the dish to the tower with the shortest possible
> ground wire preferribly copper strap.
>
> I you have more than one ground rod then there can be standing voltage
> difference between the ground rods which could be on the order of
> thousands of volts.
>
> 73 OM

> de N8ZU
Incorrect , one bonding point per system but multiple grounding rods
when qualified is fine

--
X-No-Archive: Yes

```
From 7207509580921894175
X-Google-Thread: fc2a5,f8a0f7a833254e8a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.38.38 with SMTP id d6mr27545615pbk.4.1317221485650;
        Wed, 28 Sep 2011 07:51:25 -0700 (PDT)
Path: lh7ni6701pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
k15g2000yqd.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna advice please??
Date: Wed, 28 Sep 2011 07:38:03 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <4bf57c6c-ae32-4e72-8e67-998d067095fb@k15g2000yqd.googlegroups.com>
References: <TwGfq.43416$Ol1.14819@newsfe07.iad> <j5nctv$6d6$2@dont-email.me>
 <EqHfq.54$xY3.36@newsfe02.iad> <DIydnZVVl76K2-LTnZ2dnUVZ_qCdnZ2d@earthlink.com>
 <92ce44a6-44d4-46f0-812e-83e2eec61616@hd1g2000vbb.googlegroups.com>
<fast-2597B1.10161827092011@news.starband.net>
NNTP-Posting-Host: 198.111.161.229
Mime-Version: 1.0
X-Trace: posting.google.com 1317221485 8593 127.0.0.1 (28 Sep 2011 14:51:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 28 Sep 2011 14:51:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k15g2000yqd.googlegroups.com; posting-host=198.111.161.229;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLEUHNKC
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB7.1;
 .NET CLR 1.1.4322; InfoPath.1),gzip(gfe)
Xref: news1.google.com rec.radio.amateur.homebrew:3132
Content-Type: text/plain; charset=ISO-8859-1
```

Hey OM:

I see it all the time out on the water. You look at why fowl like
FLAMINGOs stand on one leg in the water? Because the ones that stood
on 2 legs got eletrocuted when lightening hit the water. The voltage
difference set up between their little legs was enough to kill them.
That's why FLAMINGOs stand on one leg. They also don't read technical
books but have learned from evolution the hard way.

Thousands of years of evolution can't be over looked, FLAMINGOs know
one ground point is the best. .

73 OT
de n8zu

```
From 2523533509084381902
X-Google-Thread: fc2a5,2702aeaa13b4c42e,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.27.230 with SMTP id w6mr7842968pbg.3.1317256931370;
        Wed, 28 Sep 2011 17:42:11 -0700 (PDT)
Path: lh7ni7115pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
k10g2000vbn.googlegroups.com!not-for-mail
From: bgfbfjgg ojdhdsd <uijsbhsbchsv@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SUPER HOT VIDEOS N BULK SEXY PHOTOS
Date: Wed, 28 Sep 2011 17:42:11 -0700 (PDT)
Organization: http://groups.google.com
Lines: 60
Message-ID: <6250e266-4c43-4a9d-9808-48319d8df2df@k10g2000vbn.googlegroups.com>
NNTP-Posting-Host: 117.199.243.126
Mime-Version: 1.0
X-Trace: posting.google.com 1317256931 21633 127.0.0.1 (29 Sep 2011 00:42:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 29 Sep 2011 00:42:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k10g2000vbn.googlegroups.com; posting-host=117.199.243.126;
posting-account=VkOAtQoAAACEcOLC5-eHi1eJjZH4zy38
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.23)
 Gecko/20110920 Firefox/3.6.23,gzip(gfe)
Xref: news1.google.com rec.radio.amateur.homebrew:3133
Content-Type: text/plain; charset=ISO-8859-1
```

ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

hot lip kiss

HOT LIP KISS 109

http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

```
From 8543597594557980012
X-Google-Thread: fc2a5,f8a0f7a833254e8a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.11.199 with SMTP id s7mr37638787pbb.5.1317268148348;
        Wed, 28 Sep 2011 20:49:08 -0700 (PDT)
Path: lh7ni7215pbb.0!nntp.google.com!news1.google.com!news.glorb.com!
feeder.erje.net!news-1.dfn.de!news.dfn.de!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <knock_yourself_out@example.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna advice please??
Date: 29 Sep 2011 03:49:06 GMT
Lines: 7
Message-ID: <slrnj87qks.2dc2.knock_yourself_out@shell.config.com>
References: <TwGfq.43416$Ol1.14819@newsfe07.iad>
 <j5nctv$6d6$2@dont-email.me> <EqHfq.54$xY3.36@newsfe02.iad>
 <DIydnZVVl76K2-LTnZ2dnUVZ_qCdnZ2d@earthlink.com>
 <92ce44a6-44d4-46f0-812e-83e2eec61616@hd1g2000vbb.googlegroups.com>
 <fast-2597B1.10161827092011@news.starband.net>
 <4bf57c6c-ae32-4e72-8e67-998d067095fb@k15g2000yqd.googlegroups.com>
Mime-Version: 1.0
X-Trace: individual.net vkUbC+KRQNgks4AzmhlIbwxoTEqJgTeHltGzp9LX61QtNNscKG
Cancel-Lock: sha1:EjS2Ll7z6z2pV2zsuUE6swmPf78=
User-Agent: slrn/0.9.9p1 (FreeBSD)
Xref: news1.google.com rec.radio.amateur.homebrew:3134
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Wed, 28 Sep 2011 07:38:03 -0700 (PDT), raypsi wrote:
>
> I see it all the time out on the water. You look at why fowl like
> FLAMINGOs stand on one leg in the water?

You have Flamingos in Redford, Michigan??????
Damn!!!  Global warming has progressed far faster than I had thought!


From -409924763029170942
X-Google-Thread: 241b302a50,f8a0f7a833254e8a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!z12g2000yqz.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna advice please??
Date: Thu, 29 Sep 2011 07:53:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
```

```
Message-ID: <ae45158d-30b5-45c4-8db9-89bd926f5dd4@z12g2000yqz.googlegroups.com>
References: <TwGfq.43416$Ol1.14819@newsfe07.iad> <j5nctv$6d6$2@dont-email.me>
 <EqHfq.54$xY3.36@newsfe02.iad> <DIydnZVVl76K2-LTnZ2dnUVZ_qCdnZ2d@earthlink.com>
 <92ce44a6-44d4-46f0-812e-83e2eec61616@hd1g2000vbb.googlegroups.com>
 <fast-2597B1.10161827092011@news.starband.net> <4bf57c6c-
ae32-4e72-8e67-998d067095fb@k15g2000yqd.googlegroups.com>
 <slrnj87qks.2dc2.knock_yourself_out@shell.config.com>
NNTP-Posting-Host: 198.111.161.229
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1317308120 7302 127.0.0.1 (29 Sep 2011 14:55:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 29 Sep 2011 14:55:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z12g2000yqz.googlegroups.com; posting-host=198.111.161.229;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLEUHNKC
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB7.1;
 .NET CLR 1.1.4322; InfoPath.1),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4957

On Sep 28, 11:49=A0pm, Allodoxaphobia <knock_yourself_...@example.net>
wrote:
> On Wed, 28 Sep 2011 07:38:03 -0700 (PDT), raypsi wrote:
>
> > I see it all the time out on the water. You look at why fowl like
> > FLAMINGOs stand on one leg in the water?
>
> You have Flamingos in Redford, Michigan??????
> Damn!!! =A0Global warming has progressed far faster than I had thought!

Hey OM:

The Pink Flamingo motel got them stuck in the front lawn and the motel
has hooks on the walls of every room. for miskrittens like me. The yl
got her own whip.

73 OT
de n8zu



From 4076041838900110093
X-Google-Thread: fc2a5,a942cc8aad8fcdee,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.50.133 with SMTP id c5mr41367617pbo.2.1317325484594;
        Thu, 29 Sep 2011 12:44:44 -0700 (PDT)
Path: lh7ni7704pbb.0!nntp.google.com!news1.google.com!news.glorb.com!news.alt.net
From: justme <jbleaux@gmail.com>
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: ICOM 745 / 751 MEMORY BOARD NEEDED
Date: Thu, 29 Sep 2011 14:44:33 -0500
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 9
Message-ID: <0ki987pd9l7lam47ldpaoeeujmgp1fv2p5@4ax.com>
Mime-Version: 1.0
X-Newsreader: Forte Agent 5.00/32.1171
Xref: news1.google.com rec.radio.amateur.homebrew:3136
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I need to find the internal ram board for an Icom 745/751.  I broke
mine by pushing too hard when reinstalling.

Money is tight, as we all know.  Do you have one that I can buy?

I sure would appreciate it.

Thank you.




From -3307112666273675400
X-Google-Thread: fc2a5,f106e3f9e6d0fdbe,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.50.133 with SMTP id c5mr46888296pbo.2.1317402761185;
        Fri, 30 Sep 2011 10:12:41 -0700 (PDT)
Path: lh7ni8426pbb.0!nntp.google.com!news1.google.com!goblin1!goblin2!
goblin.stu.neva.ru!feeder.erje.net!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: "Ted Ham" <rexxhat3405@adl.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: on-line receivers for transmitter testing in USA?
Date: Fri, 30 Sep 2011 13:12:29 -0400
Organization: A noiseless patient Spider
Lines: 10
Message-ID: <j64ta8$38r$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Fri, 30 Sep 2011 17:12:40 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="ViU9WUUQy3evH2QKQWwj4g";
     logging-data="3355"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18wToRS+i6IGu62IzuewpYj"
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6109
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:Wk85W6VIyUlHOqFG+K2HVaCYiEQ=
X-Priority: 3
X-MSMail-Priority: Normal
Xref: news1.google.com rec.radio.amateur.homebrew:3137
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
```

I recently came across some literature suggesting on-line Ham receiving stations available for transmitter testing. In other words, I send out a signal on one of the Ham bands and on one of the on-line frequencies, and then either hear my signal immediately on-line or a short time afterwards.
Are there frequencies set up on-line and on the Ham bands for such testing?
What are the links & frequencies?

Thanks,
Ted

```
From -7828459232436247522
X-Google-Thread: fc2a5,f106e3f9e6d0fdbe
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.46.193 with SMTP id x1mr30658005pbm.7.1317422926722;
        Fri, 30 Sep 2011 15:48:46 -0700 (PDT)
MIME-Version: 1.0
Path: lh7ni8596pbb.0!nntp.google.com!news1.google.com!news2.google.com!
news.glorb.com!feeder.erje.net!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: "Bob" <someone@somewhere.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: on-line receivers for transmitter testing in USA?
Date: Fri, 30 Sep 2011 18:48:42 -0400
Organization: A noiseless patient Spider
Lines: 17
Message-ID: <j65h0d$67h$1@dont-email.me>
References: <j64ta8$38r$1@dont-email.me>
Injection-Date: Fri, 30 Sep 2011 22:48:46 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="z5mwaB7sJffY/4BetvpvpA";
     logging-data="6385"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+DFd15G+WaBiTnzur6CDnj"
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6109
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:SXOFary7UEJGaXcruBsU0aQXzvE=
X-Priority: 3
X-MSMail-Priority: Normal
Xref: news1.google.com rec.radio.amateur.homebrew:3138
```

They're general coverage receivers out there that you can tune to any frequency that is within their capabilities.
Google "online receivers" or such.

"Ted Ham" <rexxhat3405@adl.com> wrote in message
news:j64ta8$38r$1@dont-email.me...

>I recently came across some literature suggesting on-line Ham receiving
>stations available for transmitter testing. In other words, I send out a
>signal on one of the Ham bands and on one of the on-line frequencies, and
>then either hear my signal immediately on-line or a short time afterwards.
>Are there frequencies set up on-line and on the Ham bands for such testing?
>What are the links & frequencies?
>
> Thanks,
> Ted

```
From 1293208024245703915
X-Google-Thread: fc2a5,c4dd875d001614ca,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.27.230 with SMTP id w6mr20698562pbg.3.1317432190300;
        Fri, 30 Sep 2011 18:23:10 -0700 (PDT)
Path: lh7ni8680pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
d26g2000vby.googlegroups.com!not-for-mail
From: bgfbfjgg ojdhdsd <uijsbhsbchsv@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: BEST 10 HOT SEXY VIDEOS AND MASALA KISS PHOTOS
Date: Fri, 30 Sep 2011 18:21:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 60
Message-ID: <6ac404bb-b4a3-4c13-9023-d6561a6b9f11@d26g2000vby.googlegroups.com>
NNTP-Posting-Host: 117.199.241.228
Mime-Version: 1.0
X-Trace: posting.google.com 1317432190 23273 127.0.0.1 (1 Oct 2011 01:23:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 1 Oct 2011 01:23:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d26g2000vby.googlegroups.com; posting-host=117.199.241.228;
posting-account=VkOAtQoAAACEcOLC5-eHi1eJjZH4zy38
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.23)
 Gecko/20110920 Firefox/3.6.23,gzip(gfe)
Xref: news1.google.com rec.radio.amateur.homebrew:3139
Content-Type: text/plain; charset=ISO-8859-1
```

ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

```
From 1930755121047668711
X-Google-Thread: fcc6e,183c79f29a35678c,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,183c79f29a35678c,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,183c79f29a35678c,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,183c79f29a35678c,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,183c79f29a35678c,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,183c79f29a35678c,start
X-Google-NewGroupId: yes
X-Google-Thread: 10e8ad,183c79f29a35678c,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf
6,gid8f86f75953,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.11.199 with SMTP id s7mr50554430pbb.5.1317448806566;
        Fri, 30 Sep 2011 23:00:06 -0700 (PDT)
MIME-Version: 1.0
Path: lh7ni8832pbb.0!nntp.google.com!news1.google.com!news2.google.com!
news.glorb.com!news-out.readnews.com!transit3.readnews.com!panix!panix2.panix.com!
not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1314856800@panix.com>
Followup-To: poster
Date: 1 Oct 2011 02:00:02 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Nov 2011 02:00:00 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1317448801@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1317448802 16808 166.84.1.2 (1 Oct 2011 06:00:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 1 Oct 2011 06:00:02 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Xref: news1.google.com rec.radio.amateur.antenna:16311 rec.radio.amateur.dx:917
```

rec.radio.amateur.equipment:1720 rec.radio.amateur.homebrew:3140
rec.radio.amateur.misc:4972 rec.radio.amateur.policy:14923
rec.radio.amateur.space:423 rec.radio.info:2335

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From 4251680021980014766
X-Google-Thread: fc2a5,f106e3f9e6d0fdbe
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.11.199 with SMTP id s7mr51694589pbb.5.1317474477837;
        Sat, 01 Oct 2011 06:07:57 -0700 (PDT)
Path: lh7ni9065pbb.0!nntp.google.com!news1.google.com!goblin2!goblin1!
goblin.stu.neva.ru!feeder.news-service.com!cyclone03.ams2.highwinds-media.com!
news.highwinds-media.com!voer-me.highwinds-media.com!npeersf01.ams.highwinds-
media.com!newsfe12.ams2.POSTED!00000000!not-for-mail
Message-ID: <7H7n87KkCxhOFwcl@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: on-line receivers for transmitter testing in USA?
References: <j64ta8$38r$1@dont-email.me> <j65h0d$67h$1@dont-email.me>
Lines: 25
MIME-Version: 1.0
User-Agent: Turnpike/6.07-S (<XFRqWarbKPD2YPCjmRGoeAF0eQ>)
NNTP-Posting-Host: 80.176.138.122
X-Complaints-To: abuse@demon.net
X-Trace: newsfe12.ams2 1317474456 80.176.138.122 (Sat, 01 Oct 2011 13:07:36 UTC)
NNTP-Posting-Date: Sat, 01 Oct 2011 13:07:36 UTC
Date: Sat, 1 Oct 2011 14:07:48 +0100
Xref: news1.google.com rec.radio.amateur.homebrew:3141
Content-Type: text/plain;charset=us-ascii;format=flowed

>"Ted Ham" <rexxhat3405@adl.com> wrote in message
>news:j64ta8$38r$1@dont-email.me...
>>I recently came across some literature suggesting on-line Ham receiving
>>stations available for transmitter testing.  In other words, I send out a
>>signal on one of the Ham bands and on one of the on-line frequencies, and
>>then either hear my signal immediately on-line or a short time afterwards.
>>Are there frequencies set up on-line and on the Ham bands for such testing?
>>What are the links & frequencies?
>>
>> Thanks,
>> Ted
>
In message <j65h0d$67h$1@dont-email.me>, Bob <someone@somewhere.com>
writes
>They're general coverage receivers out there that you can tune to any
>frequency that is within their capabilities.
>Google "online receivers" or such.
>

>
I think that this is the sort of thing you are looking for. A few of the
receiving sites are in the USA.
http://www.websdr.org/
--
Ian
```

```
From 8650046783742609428
X-Google-Thread: fc2a5,f106e3f9e6d0fdbe
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.33.71 with SMTP id p7mr22090316pbi.1.1317474983981;
        Sat, 01 Oct 2011 06:16:23 -0700 (PDT)
Path: lh7ni9071pbb.0!nntp.google.com!news1.google.com!news2.google.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 01 Oct 2011 08:16:23 -0500
Date: Sat, 01 Oct 2011 13:16:23 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.22) Gecko/
20110902 Thunderbird/3.1.14
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: on-line receivers for transmitter testing in USA?
References: <j64ta8$38r$1@dont-email.me> <j65h0d$67h$1@dont-email.me>
<7H7n87KkCxhOFwcl@g3ohx.demon.co.uk>
In-Reply-To: <7H7n87KkCxhOFwcl@g3ohx.demon.co.uk>
Message-ID: <arqdnV0Wmsg6jxrTnZ2dnUVZ_uudnZ2d@bright.net>
Lines: 12
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-UJ7Qj4HO/dCl1EPJxxBeev3w0q0vD/
J6r9AWYz0jLQ77lpLjsWsT3z58GorlbAhzSV1AJU7q8N/lMln!UYGOke9o+ahZOEYQktqNM/WXpD/
j4MkUabsJ5GKV2jF2ZJabWXrBjO55LocjomCvMZ87U6+o+uFA!CdjUZk04HA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1523
Xref: news1.google.com rec.radio.amateur.homebrew:3142
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

> In message <j65h0d$67h$1@dont-email.me>, Bob <someone@somewhere.com> writes
>> They're general coverage receivers out there that you can tune to any
>> frequency that is within their capabilities.
>> Google "online receivers" or such.

Here's another site:
http://www.globaltuners.com/

```
From 6208315637519105319
X-Google-Thread: fc2a5,f106e3f9e6d0fdbe
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.46.193 with SMTP id x1mr33497756pbm.7.1317477530517;
        Sat, 01 Oct 2011 06:58:50 -0700 (PDT)
Path: lh7ni9088pbb.0!nntp.google.com!news1.google.com!news2.google.com!
news.glorb.com!feeder.erje.net!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: david <none@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: on-line receivers for transmitter testing in USA?
Date: Sat, 1 Oct 2011 13:58:49 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 18
Message-ID: <j676ap$lnu$1@dont-email.me>
References: <j64ta8$38r$1@dont-email.me> <j65h0d$67h$1@dont-email.me>
     <7H7n87KkCxhOFwcl@g3ohx.demon.co.uk>
     <arqdnV0Wmsg6jxrTnZ2dnUVZ_uudnZ2d@bright.net>
Mime-Version: 1.0
Injection-Date: Sat, 1 Oct 2011 13:58:49 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="bjWYrj62SlFF26beZ41+cA";
     logging-data="22270"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/43XhcReK1RzDv5iOzuhPf"
User-Agent: Pan/0.135 (Tomorrow I'll Wake Up and Scald Myself with Tea; GIT
     30dc37b master)
Cancel-Lock: sha1:F//0uNS0C5+yPK4cC/8NPeESknw=
Xref: news1.google.com rec.radio.amateur.homebrew:3143
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

On Sat, 01 Oct 2011 13:16:23 +0000, Scott rearranged some electrons to
say:

>> In message <j65h0d$67h$1@dont-email.me>, Bob <someone@somewhere.com>
>> writes
>>> They're general coverage receivers out there that you can tune to any
>>> frequency that is within their capabilities.
>>> Google "online receivers" or such.
>
>
> Here's another site: http://www.globaltuners.com/

For PSK31,  here's one that can select by band and call sign:

http://pskreporter.info/pskmap.html




From 5570874567132438934
```

```
X-Google-Thread: fc2a5,f106e3f9e6d0fdbe
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.38.134 with SMTP id g6mr52181801pbk.6.1317480464748;
        Sat, 01 Oct 2011 07:47:44 -0700 (PDT)
Path: lh7ni9117pbb.0!nntp.google.com!news1.google.com!goblin1!goblin.stu.neva.ru!
eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: "Ted Ham" <rexxhat3405@adl.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: on-line receivers for transmitter testing in USA?
Date: Sat, 1 Oct 2011 10:47:41 -0400
Organization: A noiseless patient Spider
Lines: 26
Message-ID: <j6796f$9s5$1@dont-email.me>
References: <j64ta8$38r$1@dont-email.me> <j65h0d$67h$1@dont-
email.me><7H7n87KkCxhOFwcl@g3ohx.demon.co.uk><arqdnV0Wmsg6jxrTnZ2dnUVZ_uudnZ2d@bri
ght.net> <j676ap$lnu$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Sat, 1 Oct 2011 14:47:44 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="ITRpia+Wa220dgoShejisw";
     logging-data="10117"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/v3/qDe1le9yWrpmfMjUdj"
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6109
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:4zqgFSwTP8T5pBM6PCikQEK3BwI=
X-Priority: 3
X-MSMail-Priority: Normal
Xref: news1.google.com rec.radio.amateur.homebrew:3144
Content-Type: text/plain;
     format=flowed;
     charset="UTF-8";
     reply-type=original
Content-Transfer-Encoding: 7bit
```

Thanks, guys, I'll look into those. Just so you know, I'm looking for a
live or nearly live on-line receiver in the 20 meter band, USB. I have a
new rig I'll be trying out soon and I'd like to hear what it sounds like.
73, Ted

"david" <none@nospam.com> wrote in message
news:j676ap$lnu$1@dont-email.me...
> On Sat, 01 Oct 2011 13:16:23 +0000, Scott rearranged some electrons to
> say:
>
>>> In message <j65h0d$67h$1@dont-email.me>, Bob <someone@somewhere.com>
>>> writes
>>>> They're general coverage receivers out there that you can tune to any
>>>> frequency that is within their capabilities.
>>>> Google "online receivers" or such.
>>
>>
>> Here's another site: http://www.globaltuners.com/

```
>
> For PSK31,  here's one that can select by band and call sign:
>
> http://pskreporter.info/pskmap.html
>
>
>




From 2710101183431392803
X-Google-Thread: fc2a5,f106e3f9e6d0fdbe
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.33.71 with SMTP id p7mr22421819pbi.1.1317481241794;
        Sat, 01 Oct 2011 08:00:41 -0700 (PDT)
Path: lh7ni9126pbb.0!nntp.google.com!news1.google.com!volia.net!news2.volia.net!
feed-A.news.volia.net!news.musoftware.de!wum.musoftware.de!de-l.enfer-du-nord.net!
feeder1.enfer-du-nord.net!newsfeed.eweka.nl!eweka.nl!feeder3.eweka.nl!
69.16.177.246.MISMATCH!cyclone03.ams2.highwinds-media.com!news.highwinds-
media.com!voer-me.highwinds-media.com!npeersf01.ams.highwinds-media.com!
newsfe06.ams2.POSTED!00000000!not-for-mail
Message-ID: <RGX98oCUsyhOFwo+@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: on-line receivers for transmitter testing in USA?
References: <j64ta8$38r$1@dont-email.me>
Lines: 16
MIME-Version: 1.0
User-Agent: Turnpike/6.07-S (<reUqW22HKPzn1MCjTtPoewqhFz>)
NNTP-Posting-Host: 80.176.138.122
X-Complaints-To: abuse@demon.net
X-Trace: newsfe06.ams2 1317481240 80.176.138.122 (Sat, 01 Oct 2011 15:00:40 UTC)
NNTP-Posting-Date: Sat, 01 Oct 2011 15:00:40 UTC
Date: Sat, 1 Oct 2011 16:00:36 +0100
Xref: news1.google.com rec.radio.amateur.homebrew:3145
Content-Type: text/plain;charset=us-ascii;format=flowed

In message <j64ta8$38r$1@dont-email.me>, Ted Ham <rexxhat3405@adl.com>
writes
>I recently came across some literature suggesting on-line Ham receiving
>stations available for transmitter testing.  In other words, I send out
>a signal on one of the Ham bands and on one of the on-line frequencies,
>and then either hear my signal immediately on-line or a short time
>afterwards. Are there frequencies set up on-line and on the Ham bands
>for such testing? What are the links & frequencies?
>
>Thanks,
>Ted

Quite a few on this list are in the USA.
http://www.websdr.org/
```

--
Ian

```
From -3013671459465866198
X-Google-Thread: fc2a5,f106e3f9e6d0fdbe
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.50.133 with SMTP id c5mr56626720pbo.2.1317561022384;
        Sun, 02 Oct 2011 06:10:22 -0700 (PDT)
Path: lh7ni9818pbb.0!nntp.google.com!news1.google.com!news.glorb.com!
feeder.erje.net!eternal-september.org!feeder.eternal-september.org!.POSTED!not-
for-mail
From: "Ted Ham" <rexxhat3405@adl.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: on-line receivers for transmitter testing in USA?
Date: Sun, 2 Oct 2011 09:10:18 -0400
Organization: A noiseless patient Spider
Lines: 19
Message-ID: <j69nrt$jkh$1@dont-email.me>
References: <j64ta8$38r$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Sun, 2 Oct 2011 13:10:21 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="WFqDakb4qlTT3VSbn7IokA";
     logging-data="20113"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18m4BEg30UwLZ19IRci9Ntm"
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6109
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:gfGN0iBhTj3cYAxOeVG17CbXOv8=
X-Priority: 3
X-MSMail-Priority: Normal
Xref: news1.google.com rec.radio.amateur.homebrew:3146
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
```

Appreciate the response from all here, gentlemen. In fact, the very concept of a software receiver has me intrigued to try setting up my own on the PC. However, as I look at some of the ones people are using at the websdr.org link, I find most are out of stock. Of course, Winradio has been around for years, but a much higher price tag. Any info on getting a "Softrock" or similar receiver would be welcome. Thanks, Ted

"Ted Ham" <rexxhat3405@adl.com> wrote in message
news:j64ta8$38r$1@dont-email.me...

>I recently came across some literature suggesting on-line Ham receiving
>stations available for transmitter testing. In other words, I send out a
>signal on one of the Ham bands and on one of the on-line frequencies, and
>then either hear my signal immediately on-line or a short time afterwards.
>Are there frequencies set up on-line and on the Ham bands for such testing?

>What are the links & frequencies?
>
> Thanks,
> Ted

```
From -4917973098013642678
X-Google-Thread: fc2a5,cedb1501bcdc21d0,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.33.71 with SMTP id p7mr28164528pbi.1.1317581754186;
        Sun, 02 Oct 2011 11:55:54 -0700 (PDT)
Path: lh7ni9993pbb.0!nntp.google.com!news1.google.com!news3.google.com!proxad.net!
feeder1-2.proxad.net!weretis.net!feeder4.news.weretis.net!eternal-september.org!
feeder.eternal-september.org!.POSTED!not-for-mail
From: "Ted Ham" <rexxhat3405@adl.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SDR recommendations?
Date: Sun, 2 Oct 2011 14:55:52 -0400
Organization: A noiseless patient Spider
Lines: 17
Message-ID: <j6ac3p$l8q$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Sun, 2 Oct 2011 18:55:53 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="VJcsrFJBPY0rNsdPoCBfWQ";
     logging-data="21786"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+lUnqpT3ZiW8GfJpReGw3K"
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6109
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:f6/3nzPHjMTZGZFX1cM3zUHOYV0=
X-Priority: 3
X-MSMail-Priority: Normal
Xref: news1.google.com rec.radio.amateur.homebrew:3147
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
```

After the prior post mentioning SDR radios, and me seeing how they work withe the web radios, I am now intrigued by the concept. There are several DIY and assembled brands used, with SoftRock being among the best price. However, SoftRock does not appear to be available at this time and several other brands may be "retired" as well.

What would be recommended? I don't want to spend a fortune, but still want decent quality, preferably covering the HF bands. SSB, AM, FM. I see a brand called Elektor SDR offering assembled kits under $150 US. However, some people have problems with setup and a weak receiver. Now they have a preamp for another $75 or so.

Appreciate any thoughts on the subject.

Thanks,
Ted Ham

```
From -6098231241250083771
X-Google-Thread: fc2a5,4e2968dcba753d84,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i30g2000yqd.googlegroups.com!not-for-
mail
From: bgfbfjgg ojdhdsd <uijsbhsbchsv@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT SEXY VIDEOS PRESENT MASLA PHOTOS FOR ADULTS
Date: Sun, 2 Oct 2011 17:39:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 34
Message-ID: <01f96974-50da-48e9-9900-172242f9bf07@i30g2000yqd.googlegroups.com>
NNTP-Posting-Host: 117.199.243.109
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1317602385 16851 127.0.0.1 (3 Oct 2011 00:39:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 3 Oct 2011 00:39:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i30g2000yqd.googlegroups.com; posting-host=117.199.243.109;
posting-account=VkOAtQoAAACEcOLC5-eHi1eJjZH4zy38
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.23)
 Gecko/20110920 Firefox/3.6.23,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4970
```

A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.com/

ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

ALL JOBS   SITES FREE SEE

http://jobstwo.blogspot.com/

HOT VIDEOS

http://hotvideotoou.blogspot.com/2011/01/kiss-videos.html

hot lip kiss
http://hotvidos.blogspot.com/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.com/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.com/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.com/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.com/2010/07/tamil-hot-videos.html

```
From 2889818436533902128
X-Google-Thread: fc2a5,cedb1501bcdc21d0
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.38.38 with SMTP id d6mr258725pbk.4.1317643209059;
        Mon, 03 Oct 2011 05:00:09 -0700 (PDT)
Path: lh7ni10503pbb.0!nntp.google.com!news1.google.com!goblin1!goblin2!
goblin.stu.neva.ru!news.internetdienste.de!news.tu-darmstadt.de!fu-berlin.de!uni-
berlin.de!individual.net!not-for-mail
From: Adam Sampson <ats@offog.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SDR recommendations?
Date: Mon, 03 Oct 2011 12:48:51 +0100
Organization: I'll send this message down the wire and hope that someone wise is
listening
Lines: 38
Message-ID: <y2ad3ee1ejg.fsf@cartman.at.offog.org>
References: <j6ac3p$l8q$1@dont-email.me>
Mime-Version: 1.0
X-Trace: individual.net tttF6bCbOwnZMlh2mD8R0ASEIFBA2PbUKLNsCnmZ0un+EzKFXW
X-Orig-Path: cartman.offog.org!not-for-mail
Cancel-Lock: sha1:fxBj1t2L3qm0mcYQyy+NMGK2ngg= sha1:P4E7ZTezFlo4hECyJg0Sg95ybHA=
User-Agent: Gnus/5.13 (Gnus v5.13) Emacs/23.3 (gnu/linux)
Xref: news1.google.com rec.radio.amateur.homebrew:3148
Content-Type: text/plain; charset=us-ascii
```

"Ted Ham" <rexxhat3405@adl.com> writes:

> However, SoftRock does not appear to be available at this time and
> several other brands may be "retired" as well.

The SoftRock kits aren't retired; it's just that they appear in batches

and usually sell out within a day or so. If you're interested in getting one, your best bet is to join the softrock40 group and wait for an announcement:
  http://groups.yahoo.com/group/softrock40/

Alternatively, you could try contacting Tony Parks directly. It sounds like the SoftRock RX Ensemble kit would suit you (continuously-tunable receiver with bandpass filters for 160m-10m on a single board; I built the previous two-board version and have been very happy with it).

The SoftRock kits have the advantage of excellent build documentation (http://www.wb5rvz.com/sdr/) and lots of troubleshooting experience on the mailing list, but it's worth looking at some of the other similar kits from other suppliers too.

For example, the Soft66RF is much like the RX Ensemble, but designed to use off-the-shelf inductors:
  http://zao.jp/radio/66RF/index_e.php

And Funkamateur do a line of cheap fixed-frequency/IF receivers along the lines of the SR Lite, but with all through-hole components, and with LF and VHF variants available:
  http://www.box73.de/catalog/index.php?cPath=112_113_143

(If you have an existing radio with a suitably wide IF output, a fixed-frequency receiver on the IF frequency is the cheapest and easiest way of playing with SDR; the SR Lite or Funkamateur kits cater for that.)

Hope this helps,

--
Adam Sampson <ats@offog.org>   <http://offog.org/>

From -6955994618436910150
X-Google-Thread: fc2a5,cedb1501bcdc21d0
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.21.229 with SMTP id y5mr388016pbe.1.1317645096649;
        Mon, 03 Oct 2011 05:31:36 -0700 (PDT)
Path: lh7ni10523pbb.0!nntp.google.com!news1.google.com!goblin1!goblin.stu.neva.ru!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: atec77 <atec77@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SDR recommendations?
Date: Mon, 03 Oct 2011 22:31:22 +1000
Organization: A noiseless patient Spider
Lines: 25
Message-ID: <j6c9v1$bq2$1@dont-email.me>
References: <j6ac3p$l8q$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Mon, 3 Oct 2011 12:31:30 +0000 (UTC)

```
Injection-Info: mx04.eternal-september.org; posting-host="boEWUuaP+eHgRsXSv318Bg";
     logging-data="12098"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+M1pSFqM5E/vNCHA4EPHSK"
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:7.0.1) Gecko/20110929
Thunderbird/7.0.1
In-Reply-To: <j6ac3p$l8q$1@dont-email.me>
Cancel-Lock: sha1:B9SwhC6n/zX/uHyfoEMnBI7AyVA=
Xref: news1.google.com rec.radio.amateur.homebrew:3149
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 3/10/2011 4:55 AM, Ted Ham wrote:
> After the prior post mentioning SDR radios, and me seeing how they work
> withe the web radios, I am now intrigued by the concept. There are
> several DIY and assembled brands used, with SoftRock being among the
> best price. However, SoftRock does not appear to be available at this
> time and several other brands may be "retired" as well.
>
> What would be recommended? I don't want to spend a fortune, but still
> want decent quality, preferably covering the HF bands. SSB, AM, FM. I
> see a brand called Elektor SDR offering assembled kits under $150 US.
> However, some people have problems with setup and a weak receiver. Now
> they have a preamp for another $75 or so.
>
> Appreciate any thoughts on the subject.
>
> Thanks,
> Ted Ham
http://www.genesisradio.com.au/
  awsome radio and simple to assemble \

  I managed and so could you

--
X-No-Archive: Yes




From -8102127049433028496
X-Google-Thread: fc2a5,80c125732131336f,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.11.199 with SMTP id s7mr13268170pbb.5.1317837975616;
        Wed, 05 Oct 2011 11:06:15 -0700 (PDT)
Path: lh7ni12286pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
20g2000yqq.googlegroups.com!not-for-mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SOUTH INDIAN HOT ACTRESS
Date: Wed, 5 Oct 2011 11:00:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
```

Message-ID: <c382fb48-7881-4efe-9f22-c437a87512f5@20g2000yqq.googlegroups.com>
NNTP-Posting-Host: 117.199.243.3
Mime-Version: 1.0
X-Trace: posting.google.com 1317837975 3047 127.0.0.1 (5 Oct 2011 18:06:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 5 Oct 2011 18:06:15 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 20g2000yqq.googlegroups.com; posting-host=117.199.243.3; posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.23)
Gecko/20110920 Firefox/3.6.23,gzip(gfe)
Xref: news1.google.com rec.radio.amateur.homebrew:3150
Content-Type: text/plain; charset=ISO-8859-1

FOR GOOD JOBS SITES TO YOU
http://goodjobssites.blogspot.com/

MOGUDU MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/mogudu-movie-stills.html
HANSIKA MATOWNI LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/hansika-motwani.html
KAJAL AGARWAL HOT PHOTOS
http://actressgallery-kalyani.blogspot.com/2011/09/kajal-agarwal.html
TAMANNA SIRUTHAI HOT MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/siruthai-movie-stills.html
SNEHA HOT GOA MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/goa-movie-stills.html
HOT KATRINA KAIF PHOTOS
http://actressgallery-kalyani.blogspot.com/2011/09/katrina-kaif.html
AISHWARYA RAI HOT HQ PHOTO STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/aishwarya-rai.html
ASIN HOT PHOTO GALLERY
http://actressgallery-kalyani.blogspot.com/2011/09/asin.html

FOR ONLY HOT GUYS SEE THIS
PRIYAMANI HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/09/priyamani-hot.html
KAJAL AGARWAL LATEST HOT WITHOUT TOP
http://hotactress-kalyani.blogspot.com/2011/08/kajal-agarwal-hot-photos.html
TAMANNA HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/tamanna-hot.html
PRANITHA LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/09/pranitha-hot.html
HOT KATRINAKAIF WALLPAPERS
http://hotactress-kalyani.blogspot.com/2011/08/katrina-kaif-hot.html
SAMANTHA HOT WALLPAPERS
http://hotactress-kalyani.blogspot.com/2011/09/samantha-hot.html

```
             HOT MALLU ACTRESS BHAMA
http://hotactress-kalyani.blogspot.com/2011/09/bhama-hot.html
             TOLLYWOOD HOT ACTRESSES
http://hotactress-kalyani.blogspot.com/2011/08/hot-actrsess.html
            SONAKSHI SINHA HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/09/sonakshi-sinha-hot.html
          PRIYANKA CHOPRA LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/priyanka-chopra-hot.html

                  LATEST    AMISHA PATEL HOT PICS
http://hotactress-kalyani.blogspot.com/2011/08/amisha-patel-hot.html
               TAPSEE DIFFERENT STILLS
http://hotactress-kalyani.blogspot.com/2011/08/tapsee-hot.html
             PRIYAMANI HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/09/priyamani-hot.html

    KATRINA KAIF HOT IMAGES
http://hotactress-katrina.blogspot.com/2011/08/katrina-kaif-hot.html
           TOP 15 HOT BOLLYWOOD KISSES
http://hotactress-katrina.blogspot.com/2011/08/bollywood-kisses.html
                  KAJAL AGARWAL HOT PICS
http://hotactress-katrina.blogspot.com/2011/09/kajal-agarwal.html
```

```
From -2860468324520220524
X-Google-Thread: fc2a5,6052da6207dec5eb,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.38.38 with SMTP id d6mr615865pbk.4.1317854243356;
        Wed, 05 Oct 2011 15:37:23 -0700 (PDT)
Path: lh7ni12409pbb.0!nntp.google.com!news1.google.com!goblin3!goblin1!goblin2!
goblin.stu.neva.ru!feeder.erje.net!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: "Jerrold Jones" <jj@no_whjere.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: how can I measure resonant frequency of Toko coil with dip meter?
Date: Wed, 5 Oct 2011 18:37:19 -0400
Organization: A noiseless patient Spider
Lines: 12
Message-ID: <j6im72$ave$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Wed, 5 Oct 2011 22:37:22 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="4d1NJ8l7+DZ1zA0VYDi31A";
     logging-data="11246"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18na/TuU1keCkqwE3XT5BIZ"
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:Tkco41yhYLKhIHZQ27J7JCbIrgM=
X-Priority: 3
X-MSMail-Priority: Normal
```

```
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.6109
Xref: news1.google.com rec.radio.amateur.homebrew:3151
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
```

I have a project where I am going to modify an internal receiver circuit that uses Toko style coils for the various stages. I want to be able to determine the resonant frequency of these coils. I'm told I can do this with a dip meter, but I'm not sure how. The Toko coils are shielded. If I just bring the dip meter coil near, I don't get a response. Am I going to have to remove the Toko coils from the circuit, remove the metal shield, and then move the dip meter close and adjust for the dip or is there a simpler way?

Thanks in advance,
Jer

```
From 8048851340247115685
X-Google-Thread: fc2a5,6052da6207dec5eb
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.21.229 with SMTP id y5mr784628pbe.1.1317856112402;
        Wed, 05 Oct 2011 16:08:32 -0700 (PDT)
Path: lh7ni12422pbb.0!nntp.google.com!news1.google.com!postnews.google.com!
5g2000yqo.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: how can I measure resonant frequency of Toko coil with dip meter?
Date: Wed, 5 Oct 2011 16:06:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 42
Message-ID: <64568e5e-1f72-4f7e-bf47-414503795dbe@5g2000yqo.googlegroups.com>
References: <j6im72$ave$1@dont-email.me>
NNTP-Posting-Host: 50.46.189.195
Mime-Version: 1.0
X-Trace: posting.google.com 1317856112 29403 127.0.0.1 (5 Oct 2011 23:08:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 5 Oct 2011 23:08:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 5g2000yqo.googlegroups.com; posting-host=50.46.189.195; posting-
account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:7.0.1) Gecko/20100101 Firefox/
7.0.1,gzip(gfe)
Xref: news1.google.com rec.radio.amateur.homebrew:3152
```

```
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

On Oct 5, 3:37=A0pm, "Jerrold Jones" <jj@no_whjere.net> wrote:
> I have a project where I am going to modify an internal receiver circuit
> that uses Toko style coils for the various stages. =A0I want to be able t=
o
> determine the resonant frequency of these coils. =A0I'm told I can do thi=
s
> with a dip meter, but I'm not sure how. =A0The Toko coils are shielded. =
=A0If I
> just bring the dip meter coil near, I don't get a response. =A0Am I going=
 to
> have to remove the Toko coils from the circuit, remove the metal shield, =
and
> then move the dip meter close and adjust for the dip or is there a simple=
r
> way?
>
> Thanks in advance,
> Jer

Are they just coils that you resonate with an external capacitance, or
do they include capacitors?  If they are coils, you should be able to
resonate them with an external capacitor, and leave the leads long
enough (formed in a loop) to couple to the GDO.  The leads add some
inductance that you can at least estimate and subtract out.  If you
can't couple closely enough with a single turn loop like that, you can
use multiple turns, again estimating or measuring the inductance of
those turns and subtracting it out.

If the shield cans also contain capacitors (as is typical for IF
transformers), things get more complicated...

Removing the shield can is probably not a good idea.  If the coil
inside is open (doesn't have a powdered iron tube around it), then the
inductance of the coil will be somewhat lowered when it's inside the
shield.  If the coil inside does have a powdered iron tube around it,
you may not be able to couple well enough to the coil to measure it.

You may also have other ways to measure the coil/resonator...you can
do a lot even with a general-coverage receiver.

Cheers,
Tom


From -2403104862624188881
X-Google-Thread: 241b302a50,6052da6207dec5eb
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
```

newsfeed.xs4all.nl!newsfeed6.news.xs4all.nl!xs4all!newsgate.cistron.nl!
newsgate.news.xs4all.nl!news.nosignal.org!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: how can I measure resonant frequency of Toko coil with dip meter?
Date: Wed, 5 Oct 2011 23:34:33 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 16
Sender: et472@72.0.192.104
Message-ID: <Pine.LNX.4.64.1110052333350.8438@darkstar.example.net>
References: <j6im72$ave$1@dont-email.me>
NNTP-Posting-Host: 72.0.192.104
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1317872088 20616 72.0.192.104 (6 Oct 2011 03:34:48 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 6 Oct 2011 03:34:48 GMT
In-Reply-To: <j6im72$ave$1@dont-email.me>
Xref: g2news2.google.com rec.radio.amateur.homebrew:4976

On Wed, 5 Oct 2011, Jerrold Jones wrote:

> I have a project where I am going to modify an internal receiver circuit that
> uses Toko style coils for the various stages. I want to be able to determine
> the resonant frequency of these coils. I'm told I can do this with a dip
> meter, but I'm not sure how. The Toko coils are shielded. If I just bring
> the dip meter coil near, I don't get a response. Am I going to have to
> remove the Toko coils from the circuit, remove the metal shield, and then
> move the dip meter close and adjust for the dip or is there a simpler way?
>

So if it's a commercial receiver, the information may already be out
there, but nobody would know until you reveal the receiver, and the stage
you want to modify.

   Michael VE2BVW

From 8068262027171779294
X-Google-Thread: fc2a5,6052da6207dec5eb
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.21.229 with SMTP id y5mr3096602pbe.1.1317898277647;
        Thu, 06 Oct 2011 03:51:17 -0700 (PDT)
Path: lh7ni12747pbb.0!nntp.google.com!news1.google.com!goblin2!goblin.stu.neva.ru!
feeder1.cambriumusenet.nl!feed.tweaknews.nl!193.201.147.78.MISMATCH!feeder.news-
service.com!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-
mail
From: "Jerrold Jones" <jj@no_whjere.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: how can I measure resonant frequency of Toko coil with dip meter?
Date: Thu, 6 Oct 2011 06:51:13 -0400

Organization: A noiseless patient Spider
Lines: 34
Message-ID: <j6k174$91c$1@dont-email.me>
References: <j6im72$ave$1@dont-email.me>
<Pine.LNX.4.64.1110052333350.8438@darkstar.example.net>
Mime-Version: 1.0
Injection-Date: Thu, 6 Oct 2011 10:51:16 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="poPn8rXcp8RZmTPRxJS4Eg";
     logging-data="9260"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+z4BJvYenplauHumiFEYm/"
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:PC4/SKa5GQqN5GLV9J4+EtzmOZc=
X-Priority: 3
X-MSMail-Priority: Normal
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.6109
Xref: news1.google.com rec.radio.amateur.homebrew:3154
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit

Yes, I have the original coil specs, but only in frequency and the schematics do show whether they are coil only or have an internal capacitor present. The problem I'm facing is that I know the new frequency I want to use, which is about half as high as the current frequency, but I don't know how to figure out the correct number of new windings I'll need. The coils are all Toko in shielded cans, so there are a lot of unknowns. Even knowing the frequencies they are on now, I still haven't been able to measure it and that is where I must start. I guess if I have to remove each one, break the internal capactor, and then form a loop around the dip meter coil with a new cap in parallel with the coil, I could, but I was hoping for a simpler way.

Jer

"Michael Black" <et472@ncf.ca> wrote in message
news:Pine.LNX.4.64.1110052333350.8438@darkstar.example.net...
> On Wed, 5 Oct 2011, Jerrold Jones wrote:
>
>> I have a project where I am going to modify an internal receiver circuit
>> that uses Toko style coils for the various stages. I want to be able to
>> determine the resonant frequency of these coils. I'm told I can do this
>> with a dip meter, but I'm not sure how. The Toko coils are shielded. If
>> I just bring the dip meter coil near, I don't get a response. Am I going
>> to have to remove the Toko coils from the circuit, remove the metal
>> shield, and then move the dip meter close and adjust for the dip or is
>> there a simpler way?
>>
> So if it's a commercial receiver, the information may already be out
> there, but nobody would know until you reveal the receiver, and the stage
> you want to modify.
>

>   Michael VE2BVW
>

```
From 3521600527658135879
X-Google-Thread: fcc6e,ef85fba4a986309f,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,ef85fba4a986309f,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,ef85fba4a986309f,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,ef85fba4a986309f,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,ef85fba4a986309f,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,ef85fba4a986309f,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf
6,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.50.133 with SMTP id c5mr8219755pbo.2.1317967504672;
        Thu, 06 Oct 2011 23:05:04 -0700 (PDT)
MIME-Version: 1.0
Path: lh7ni13320pbb.0!nntp.google.com!news1.google.com!news2.google.com!
npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!nx01.iad01.newshosting.com!newshosting.com!news-out.readnews.com!
transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1315375500@panix.com>
Followup-To: poster
Date: 7 Oct 2011 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Nov 2011 01:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1317967500@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1317967501 19169 166.84.1.2 (7 Oct 2011 06:05:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 7 Oct 2011 06:05:01 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: news1.google.com rec.radio.amateur.antenna:16336 rec.radio.amateur.dx:924
rec.radio.amateur.equipment:1724 rec.radio.amateur.homebrew:3155
rec.radio.amateur.misc:4993 rec.radio.amateur.policy:14998 rec.radio.info:2357
```

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

- rec.radio.amateur.antenna |
- rec.radio.amateur.boatanchors |
- rec.radio.amateur.dx |
- rec.radio.amateur.equipment |
- rec.radio.amateur.homebrew |
- rec.radio.amateur.moderated |
- rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

```
From 5216286869623612939
X-Google-Thread: 82c8fee960,f57014539dfbabbc,start
X-Google-Attributes: gid82c8fee960,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!17g2000prv.googlegroups.com!not-for-
mail
From: fashion t shirts seller <yongyingwen@yahoo.com.cn>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: Do you like sporty? Chances are you love sports NFL
Date: Fri, 7 Oct 2011 20:17:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 7
Message-ID: <0f80c5a0-eba8-4bd8-88ef-bc36584be078@17g2000prv.googlegroups.com>
NNTP-Posting-Host: 204.12.213.245
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1318043869 14515 127.0.0.1 (8 Oct 2011 03:17:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 8 Oct 2011 03:17:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 17g2000prv.googlegroups.com; posting-host=204.12.213.245; posting-
account=e_7dGwoAAADlQxyWUnVHdkkQOshi7Tci
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLEUHNKC
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; QQPinyin
 730; SV1; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729;
 .NET4.0C; .NET4.0E),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4979
rec.puzzles.crosswords:13097
```

Do you like sporty? Chances are you love sports NFL jerseys! A sports jersey is something that you cherish all your life as a favourite piece of memorabilia. It can be your own, or you may have obtained it from someone else like a professional athlete. This can be preserved for life as a momento, and why people often get their sports 2011 jersey framed as a treasure. http://jerseys-seller.com/

```
From 2024710499524420611
X-Google-Thread: 241b302a50,e16cb612a320c8cb,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe18.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.23) Gecko/20110921
Thunderbird/3.1.15
```

```
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: keyer kit
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 5
Message-ID: <faXjq.3085$YL7.2956@newsfe18.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Sat, 08 Oct 2011 12:16:11 UTC
Organization: TeraNews.com
Date: Sat, 08 Oct 2011 07:16:06 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:4683

I am cleaning my house and found a Bel-Tek keyer kit that was never
assembled


if you want it, my gmail addy is philo565


From 7084697408492822135
X-Google-Thread: fc2a5,e16cb612a320c8cb
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.46.193 with SMTP id x1mr19490263pbm.7.1318135813557;
        Sat, 08 Oct 2011 21:50:13 -0700 (PDT)
Path: lh7ni14758pbb.0!nntp.google.com!news1.google.com!npeer02.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
post01.iad.highwinds-media.com!newsfe15.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.23) Gecko/20110921
Thunderbird/3.1.15
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: keyer kit
References: <faXjq.3085$YL7.2956@newsfe18.iad>
In-Reply-To: <faXjq.3085$YL7.2956@newsfe18.iad>
Lines: 10
Message-ID: <9K9kq.5428$ff7.1862@newsfe15.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Sun, 09 Oct 2011 04:50:13 UTC
Organization: TeraNews.com
Date: Sat, 08 Oct 2011 23:50:12 -0500
Xref: news1.google.com rec.radio.amateur.homebrew:3158
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

On 10/08/2011 07:16 AM, philo wrote:
> I am cleaning my house and found a Bel-Tek keyer kit that was never
> assembled
>
>
```

> if you want it, my gmail addy is philo565

now pending

```
From -2083976372379704486
X-Google-Thread: fc2a5,e16cb612a320c8cb
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: Unknown,Unknown
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe15.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.23) Gecko/20110921
Thunderbird/3.1.15
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Now gone   (eom)
References: <faXjq.3085$YL7.2956@newsfe18.iad> <9K9kq.5428$ff7.1862@newsfe15.iad>
In-Reply-To: <9K9kq.5428$ff7.1862@newsfe15.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 1
Message-ID: <i4gkq.6122$ff7.3189@newsfe15.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Sun, 09 Oct 2011 12:03:26 UTC
Organization: TeraNews.com
Date: Sun, 09 Oct 2011 07:03:25 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:4982
```

```
From 6496324518749846780
X-Google-Thread: 241b302a50,6052da6207dec5eb
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!feeder.news-
service.com!de-l.enfer-du-nord.net!feeder1.enfer-du-nord.net!eternal-
september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: how can I measure resonant frequency of Toko coil with dip meter?
Date: Sun, 09 Oct 2011 10:30:11 -0400
Organization: A noiseless patient Spider
Lines: 42
Message-ID: <j6sb5l$65v$1@dont-email.me>
References: <j6im72$ave$1@dont-email.me>
<Pine.LNX.4.64.1110052333350.8438@darkstar.example.net> <j6k174$91c$1@dont-
email.me>
```

Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sun, 9 Oct 2011 14:30:13 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="WpZmViAxxm/zTNJ2O2VL/w";
     logging-data="6335"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/6nxS50itzIsapziR56ItHXLUoRhthz7Q="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.23) Gecko/20110921
Thunderbird/3.1.15
In-Reply-To: <j6k174$91c$1@dont-email.me>
Cancel-Lock: sha1:RZ2RzBZt1fJekdppSf9oK+NAlM8=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4983

On 10/06/2011 06:51 AM, Jerrold Jones wrote:
> Yes, I have the original coil specs, but only in frequency and the
> schematics do show whether they are coil only or have an internal
> capacitor present. The problem I'm facing is that I know the new
> frequency I want to use, which is about half as high as the current
> frequency, but I don't know how to figure out the correct number of new
> windings I'll need. The coils are all Toko in shielded cans, so there
> are a lot of unknowns. Even knowing the frequencies they are on now, I
> still haven't been able to measure it and that is where I must start. I
> guess if I have to remove each one, break the internal capactor, and
> then form a loop around the dip meter coil with a new cap in parallel
> with the coil, I could, but I was hoping for a simpler way.
>
> Jer
>
>
> "Michael Black" <et472@ncf.ca> wrote in message
> news:Pine.LNX.4.64.1110052333350.8438@darkstar.example.net...
>> On Wed, 5 Oct 2011, Jerrold Jones wrote:
>>
>>> I have a project where I am going to modify an internal receiver
>>> circuit that uses Toko style coils for the various stages. I want to
>>> be able to determine the resonant frequency of these coils. I'm told
>>> I can do this with a dip meter, but I'm not sure how. The Toko coils
>>> are shielded. If I just bring the dip meter coil near, I don't get a
>>> response. Am I going to have to remove the Toko coils from the
>>> circuit, remove the metal shield, and then move the dip meter close
>>> and adjust for the dip or is there a simpler way?
>>>
>> So if it's a commercial receiver, the information may already be out
>> there, but nobody would know until you reveal the receiver, and the
>> stage you want to modify.
>>
>> Michael VE2BVW
>>
>
If you have an L/C meter or bridge you can connect the unknown shielded
coil in series with an inductor of known value and measure the two in
series. Then subtract the known inductance from the reading. (works
for coil without parallel capacitor). For a parallel LC combo with a

bridge you can measure the combined L C reactances at different
frequencies and work out the L and C values, but the math is a bit involved.

From -2288044390738194987
X-Google-Thread: 241b302a50,7a09acacb67ee3a7
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Clutter <radioprism@all2easy.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ultimate transmatch
Date: Mon, 10 Oct 2011 07:59:10 -0400
Organization: A noiseless patient Spider
Lines: 88
Message-ID: <j6ummf$6cb$1@dont-email.me>
References: <j0ff62$lu8$1@dont-email.me>
<k4sn27h1kcqkijkqi53hlnu75baucntqbi@4ax.com> <j0hr6j$e74$1@dont-email.me>
<e02557bd-ec1c-40fe-aa81-5566b5833020@e7g2000vbw.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Mon, 10 Oct 2011 11:59:11 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="Bl2dnzwHzwGr0xnIgxAC2Q";
    logging-data="6539"; mail-complaints-to="abuse@eternal-september.org";
    posting-account="U2FsdGVkX1+qMJYFK1G9VRFdC62GQefd"
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.23) Gecko/20110921
Thunderbird/3.1.15
In-Reply-To: <e02557bd-ec1c-40fe-aa81-5566b5833020@e7g2000vbw.googlegroups.com>
Cancel-Lock: sha1:PRpAHNU9DKNaOcvuS8uj6CCr0qM=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4687

On 08/10/2011 11:45 AM, Tim Shoppa wrote:
> On Jul 24, 3:18 pm, Kenneth Scharf<wa2...@bellsouth.net> wrote:
>> For the most part I will be using coax fed antennas.
>>
>> There is an idea I've been thinking about and I wonder if it will work.
>> There is a myth that high SWR on coax will produce a high line loss.
>> Most of the loss involved with having a high SWR is in the coupling to
>> the receiver / transmitter, not so much in the transmission line itself,
>> at least not at HF. So long as a high voltage is no present on the
>> transmission line (arc over) or a very high current (resistive loss),
>> and the dielectric material does not introduce loss at the frequency
>> involved common 1/2" dia coax should work fine as an unbalanced feed
>> line even at a high swr ratio.
>
> Coax loss at high SWR is a myth? It's been tabulated in every handbook
> for the past century.
>
>> Common Ferrite core balums do not usually work well at impedances above
>> 50/75 ohms input. Using them to convert an unbalanced transmatch to a

>> balanced one AT THE OUTPUT is usually not a good idea.
>
> Often it's the choice made, though.
>
> Baluns that deal with less than optimal impedances are available but
> they are no magic bullet. Substantial engineering effort and material
> must go into them to deal with the stresses at operating away from
> their natural sweet spot (as you point out 50 ohm ballpark.)
>
>> (Insulate the
>> transmatch from ground and put the balum at the input works better).
>> A "choke" balum made by winding 10 turns or so of coax in a loop about a
>> foot or so in diameter has lower loss than a ferrite core balum, no core
>> heating.
>>
>> So my idea was to run a length of coax from the shack through the attic
>> crawl space and up to the roof (though a vent turbine). On the roof
>> would be a coax choke balum connected to 450 ohm twinlead "open wire"
>> line. This would connect to a "multiband" dipole. There is no way I
>> can run the open wire line from the shack up to the roof, this stuff
>> must be run 'in the clear' anyway. Coax being an unbalanced line is not
>> affected by it's surroundings.
>
> The coax to 450 ohm twinlead via choke "balun"... wow, it sounds like
> you are getting the worst of all possible worlds here. I agree that
> transformer-type baluns are stressed at high impedances but
> purposefully putting a 9:1 mismatch on the end of your coax is just
> asking for a world of hurt with anything except the most shortest coax
> runs (a few feet.)
>
> You might want to back up a few steps and consider if you can locate a
> coax-to-twinlead tuner, almost certainly not broadband, on the wall or
> roof of the shack or house. That way you have a nice controlled 50 ohm
> coax run inside, and it's all twinlead outside. If the shack is far
> from the tuner, today there are remotely operated tuners just for this
> purpose. In the most traditional set ups mechanical remote operation
> (chains, pulleys, etc.) was sometimes used (look in any 30's/40's/50's
> handbook.) (When I was a kid my uncle who was a ham, used a scheme
> involving bicycle cranks and extra long chains for rotating his beam!)
>
> Len Cebik's webpages are an excellent resource on ladder line, all
> band doublets, and link-coupled tuners. I can't emphasize enough how
> excellently this can work out. Don't paint yourself into a corner.
>
> Tim N3QE

If you run coax up to the roof, how about using some 70 ohm CATV coax?
I have some here I got for free, 3/4 in diameter. Oftentimes cable TV
companies have shorter 'reel ends' they are willing to give away. The
stuff is 'semi-rigid' but you may be able to get it to feed up that
conduit anyway. Worth a try. (BTW I do *not* mean RG-6 junk here, I mean
the larger diameter semi-rigid types only)

On the roof, if you must go the 'balun' route, a 4:1 or more likely 9:1 unun may be OK. Obviously, a balanced tuner accessible for adjustments would be best.

CATV 'hardline' is not near as lossy as RG-8 or RG-213 types up around 10 meters. So try some- and don't worry that it's not 50 ohm impedance, just use it as if it were.

I built the SPC type tuner myself, nearly 20 years ago. It's not always the answer, but oftentimes it worked pretty good, allowing me to extend the usable BW of some narrow antennas and still keep the amps happy.

73, David K3KY

From -6384279288323021203
X-Google-Thread: 241b302a50,ea1653fba47172b,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 10 Oct 2011 23:15:00 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: toyocom Xtal filters
From: clifford wright <c.c.wright@paradise.net.nz>
Organization: Wright retro radio
Message-ID: <Xns9F7BAF70DBBB7crite40@216.196.97.131>
User-Agent: Xnews/5.04.25
Date: Mon, 10 Oct 2011 23:15:00 -0500
Lines: 15
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-n8LkNHpS7blCs+5GHGs/sE9oWTLUMX+k0ao1CxRNiOP0FzvyVC48GA+dcUbcTbWGD/wPbfIn2ugxjOm!DPEHrPms+Exwzrg4ENdbI8jonzSulnbBp+6fh7gg25Y0O5Xq4MchdpDlq5yCmsbOLA==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1754
Xref: g2news1.google.com rec.radio.amateur.homebrew:4688

Good day! Has anyone got any application information for the Toyocom 45E2B2 45 MHz 4 pole filter. It comes as 2x3 lead crystal cans. Unfortunately it has been over 20 years since I started this reciever project. (It was put to one side after a HEAP of sythesiser problems)
Of course I cannot now find any data on how the two crystal units are coupled together.

What info I has gives a Zi/o of 4K Ohms and 0.8 pF but the only info on
coupling the 2 is an unexplained figure of 1pF?
That seems too small to me even at 45 MHz!
So what I need urgently is an clarification of the coupling required between
the 2 units.
Has any kind person got this info anywhere? Or does anyone have circuit
information on a receiver which used this filter? That would give me a lot of
clues.
73's Clifford Wright ZL1BDA ex G3NIA Helensville New Zealand.

```
From 8392770396709006361
X-Google-Thread: 241b302a50,ea1653fba47172b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!f6g2000vbm.googlegroups.com!not-for-
mail
From: genadiz <mgs2001@pochtamt.ru>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: toyocom Xtal filters
Date: Tue, 11 Oct 2011 02:38:21 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <ec9ce520-b030-4e95-9640-9d413db2b844@f6g2000vbm.googlegroups.com>
References: <Xns9F7BAF70DBBB7crite40@216.196.97.131>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1318325901 7414 127.0.0.1 (11 Oct 2011 09:38:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 11 Oct 2011 09:38:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f6g2000vbm.googlegroups.com; posting-host=188.134.5.254; posting-
account=zgxCzAoAAAAyXxwxDIXc82dvvxgyolOq
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLUEHNKC
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
 Trident/4.0; EasyBits GO v1.0; InfoPath.1; .NET CLR 3.0.4506.2152; .NET CLR
 3.5.30729; .NET4.0C; .NET CLR 1.1.4322; .NET4.0E; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4986
```

On Oct 11, 8:15=A0am, clifford wright <c.c.wri...@paradise.net.nz>
wrote:
> Good day! Has anyone got any application information for the Toyocom
> 45E2B2 45 MHz 4 pole filter. It comes as 2x3 lead crystal cans.
> Unfortunately it has been over 20 years since I started this reciever
> project. (It was put to one side after a HEAP of sythesiser problems)
> Of course I cannot now find any data on how the two crystal units are cou=
pled
> together.

> What info I has gives a Zi/o of 4K Ohms and 0.8 pF but the only info on
> coupling the 2 is an unexplained figure of 1pF?
> That seems too small to me even at 45 MHz!
> So what I need urgently is an clarification of the coupling required betw=
een
> the 2 units.
> Has any kind person got this info anywhere? Or does anyone have circuit
> information on a receiver which used this filter? That would give me a lo=
t of
> clues.
> 73's Clifford Wright ZL1BDA ex G3NIA Helensville New Zealand.

Hello.
Your filter is now a discontinued product and placed at
http://www.epsontoyocom.co.jp/english/discon/discon_filter.html

As usual, negative capacitance mean tuned resonant tank, slightly
distuned from 45 MHz.
If you can not measure shape of passband characteristics, simply
ignore these -1 pF.

If you interested, can see on my upconv receievers at
http://www.cqham.ru/forum/showthread.php?t=3D9688

```
From -6942147401871036013
X-Google-Thread: 241b302a50,ea1653fba47172b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!de2g2000vbb.googlegroups.com!not-for-
mail
From: genadiz <mgs2001@pochtamt.ru>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: toyocom Xtal filters
Date: Tue, 11 Oct 2011 03:18:17 -0700 (PDT)
Organization: http://groups.google.com
Lines: 10
Message-ID: <2980165e-e99d-4a04-9d65-1d982977a4dc@de2g2000vbb.googlegroups.com>
References: <Xns9F7BAF70DBBB7crite40@216.196.97.131>
NNTP-Posting-Host: 188.134.5.254
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NNTP-Posting-Date: Tue, 11 Oct 2011 10:19:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: de2g2000vbb.googlegroups.com; posting-host=188.134.5.254; posting-
account=zgxCzAoAAAAyXxwxDIXc82dvvxgyolOq
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLUEHNKC
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
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 3.5.30729; .NET4.0C; .NET CLR 1.1.4322; .NET4.0E; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4691

As In/Out match with filters on UM5 crystals I use L-match (series L
and paraleal C near to quartz filter).

Older boards with similar filters:

http://www.cqham.ru/forum/attachment.php?attachmentid=8799&d=1174486632

http://www.cqham.ru/forum/attachment.php?attachmentid=8798&d=1174486657

http://www.cqham.ru/forum/attachment.php?attachmentid=8249&d=1172829520

From 89058654700970051
X-Google-Thread: 241b302a50,ea1653fba47172b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 11 Oct 2011 05:46:27 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: toyocom Xtal filters
From: clifford wright <c.c.wright@paradise.net.nz>
References: <Xns9F7BAF70DBBB7crite40@216.196.97.131> <ec9ce520-
b030-4e95-9640-9d413db2b844@f6g2000vbm.googlegroups.com>
Organization: Wright retro radio
Message-ID: <Xns9F7BF1CEF655Bcrite40@216.196.97.131>
User-Agent: Xnews/5.04.25
Date: Tue, 11 Oct 2011 05:46:27 -0500
Lines: 52
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X-Trace: sv3-08Zo8nQEyph40YZN1hqTRWIV99jgC9VXObb5ThOhPi6HedIM0+SNX0CFSq/
6WGEdE3TZbdTuKNsonUZ!
EoC6ox840D22KXb9IrkmLoCJja4xoCpu4A4NGhlXb8u8UHIynXZQMd1E9A2ohBckhg==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 3379
Xref: g2news1.google.com rec.radio.amateur.homebrew:4692

genadiz <mgs2001@pochtamt.ru> wrote in
news:ec9ce520-b030-4e95-9640-9d413db2b844@f6g2000vbm.googlegroups.com:

> On Oct 11, 8:15�am, clifford wright <c.c.wri...@paradise.net.nz>

```
> wrote:
>> Good day! Has anyone got any application information for the Toyocom
>> 45E2B2 45 MHz 4 pole filter. It comes as 2x3 lead crystal cans.
>> Unfortunately it has been over 20 years since I started this reciever
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>> together.
>> What info I has gives a Zi/o of 4K Ohms and 0.8 pF but the only info on
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>> the 2 units.
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>> information on a receiver which used this filter? That would give me a
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>> clues.
>> 73's Clifford Wright ZL1BDA ex G3NIA Helensville New Zealand.
>
> Hello.
> Your filter is now a discontinued product and placed at
> http://www.epsontoyocom.co.jp/english/discon/discon_filter.html
>
> As usual, negative capacitance mean tuned resonant tank, slightly
> distuned from 45 MHz.
> If you can not measure shape of passband characteristics, simply
> ignore these -1 pF.
>
> If you interested, can see on my upconv receievers at
> http://www.cqham.ru/forum/showthread.php?t=9688
>

Thanks Genadiz.
I am an "old timer" and still trying to keep up with new technology at 71
years, after 60 years of electronics!!! A close inspection of your boards
appears to show that there is simply a low value preset capacitor from the
junction of the 2 Xtal units to ground. Is that correct?
I have tried the offset 45 MHz tuned circuit, but it is quite possible
that I had the LC ratio wrong. Perhaps I should aim for a ~4K Ohm
reactance? Unfortunately I don't read Cyrillic. My language skills are
mostly in French, German and Maori with a bit of Swedish and about 20
words of Russian. In any event the only real problem now is the coupling
of the 2 filter units as in your older designs. Matching to the input and
output of the filter is no great problem. 73's Cliff Wright


From 534645347335356376
X-Google-Thread: fc2a5,ea1653fba47172b
X-Google-NewGroupId: yes
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X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.11.199 with SMTP id s7mr31895363pbb.5.1318330986200;
        Tue, 11 Oct 2011 04:03:06 -0700 (PDT)
Path: d5ni1782pbc.0!nntp.google.com!news1.google.com!postnews.google.com!
z8g2000yqb.googlegroups.com!not-for-mail
From: genadiz <mgs2001@pochtamt.ru>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: toyocom Xtal filters
Date: Tue, 11 Oct 2011 04:03:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 6
Message-ID: <19909a9a-3387-4a1e-8428-5aba8486ebf2@z8g2000yqb.googlegroups.com>
References: <Xns9F7BAF70DBBB7crite40@216.196.97.131> <ec9ce520-
b030-4e95-9640-9d413db2b844@f6g2000vbm.googlegroups.com>
 <Xns9F7BF1CEF655Bcrite40@216.196.97.131>
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Mime-Version: 1.0
X-Trace: posting.google.com 1318330986 27813 127.0.0.1 (11 Oct 2011 11:03:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 11 Oct 2011 11:03:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z8g2000yqb.googlegroups.com; posting-host=188.134.5.254; posting-
account=zgxCzAoAAAAyXxwxDIXc82dvvxgyolOq
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLUEHNKC
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
 Trident/4.0; EasyBits GO v1.0; InfoPath.1; .NET CLR 3.0.4506.2152; .NET CLR
 3.5.30729; .NET4.0C; .NET CLR 1.1.4322; .NET4.0E; .NET CLR 2.0.50727),gzip(gfe)
Xref: news1.google.com rec.radio.amateur.homebrew:3167
Content-Type: text/plain; charset=ISO-8859-1
```

I'm point you to russian fourm for see pictures, not for reading.

In this (your) case, I propouse use at middle a tank with fixed
1...1.5 uH and 1..10 pF trimmer cap - align this circuit (at same time
align input and output of filter) until the shape of passband is good
enough.

```
From 3995136309190375448
X-Google-Thread: 241b302a50,ea1653fba47172b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q25g2000vbx.googlegroups.com!not-for-
mail
From: genadiz <mgs2001@pochtamt.ru>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: toyocom Xtal filters
Date: Tue, 11 Oct 2011 04:12:49 -0700 (PDT)
Organization: http://groups.google.com
```

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Lines: 5
Message-ID: <40492cee-5b0c-4c01-87b4-790afa5a5ef2@q25g2000vbx.googlegroups.com>
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b030-4e95-9640-9d413db2b844@f6g2000vbm.googlegroups.com>
 <Xns9F7BF1CEF655Bcrite40@216.196.97.131>
NNTP-Posting-Host: 188.134.5.254
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1318331912 5090 127.0.0.1 (11 Oct 2011 11:18:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 11 Oct 2011 11:18:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q25g2000vbx.googlegroups.com; posting-host=188.134.5.254; posting-
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User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLUEHNKC
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
 Trident/4.0; EasyBits GO v1.0; InfoPath.1; .NET CLR 3.0.4506.2152; .NET CLR
 3.5.30729; .NET4.0C; .NET CLR 1.1.4322; .NET4.0E; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4991

>>low value preset capacitor from the
>>junction of the 2 Xtal units to ground. Is that correct?

This case related only to my type of filters - in your case, you need
little L.


From -3452679811799453600
X-Google-Thread: fc2a5,ea1653fba47172b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.38.134 with SMTP id g6mr32444416pbk.6.1318341454447;
        Tue, 11 Oct 2011 06:57:34 -0700 (PDT)
Path: d5ni1864pbc.0!nntp.google.com!news1.google.com!goblin1!goblin.stu.neva.ru!
feeder.news-service.com!amsnews11.chello.com!news.chello.nl.POSTED!not-for-mail
From: "Jan Jongejan, PE1SBG" <Vandaagniet@onbekend.zz>
Date: Tue, 11 Oct 2011 15:56:29 +0200
User-Agent: KNode/4.4.10
Subject: Re: toyocom Xtal filters
Newsgroups: rec.radio.amateur.homebrew
References: <Xns9F7BAF70DBBB7crite40@216.196.97.131> <ec9ce520-
b030-4e95-9640-9d413db2b844@f6g2000vbm.googlegroups.com>
<Xns9F7BF1CEF655Bcrite40@216.196.97.131>
Followup-To: rec.radio.amateur.homebrew
MIME-Version: 1.0
Message-ID: <95904$4e944bd7$d55dfeee$10098@news.chello.nl>
X-Complaints-To: abuse@chello.nl
Organization: chello.nl
Lines: 13
NNTP-Posting-Host: 213.93.254.238 (213.93.254.238)
```

NNTP-Posting-Date: Tue, 11 Oct 2011 15:59:51 +0200
X-Trace: 959044e944bd770f85b4b10098
Xref: news1.google.com rec.radio.amateur.homebrew:3169
Content-Type: text/plain; charset="ISO-8859-1"
Content-Transfer-Encoding: 7Bit

clifford wright wrote:

> Unfortunately I don't read Cyrillic. My language skills are
> mostly in French, German and Maori with a bit of Swedish and about 20
> words of Russian. 73's Cliff Wright

www.google.com, click More and then Translate. The rest is obvious. It translates the russian website very well.

Regards,
Jan PE1SBG

From -890775672238956821
X-Google-Thread: 241b302a50,ea1653fba47172b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 11 Oct 2011 16:11:27 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: toyocom Xtal filters
From: clifford wright <c.c.wright@paradise.net.nz>
References: <Xns9F7BAF70DBBB7crite40@216.196.97.131> <ec9ce520-b030-4e95-9640-9d413db2b844@f6g2000vbm.googlegroups.com> <Xns9F7BF1CEF655Bcrite40@216.196.97.131> <19909a9a-3387-4a1e-8428-5aba8486ebf2@z8g2000yqb.googlegroups.com>
Organization: Wright retro radio
Message-ID: <Xns9F7C67A1E509Acrite40@216.196.97.131>
User-Agent: Xnews/5.04.25
Date: Tue, 11 Oct 2011 16:11:27 -0500
Lines: 17
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-wAkV6JQHKFil+qAPVimOxg1hTl1TX9DzBORvliUvQvvLlGxp0pDaSFemU69lobopsmxj1ppT6xFPVrJ!kKuxPQUfBtgwfxnqJVbPKnbzdkDIibioiGoi+MmwHjnDthV6TwMlbLv/FwISFiEDwA==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1778

Xref: g2news2.google.com rec.radio.amateur.homebrew:4993

genadiz <mgs2001@pochtamt.ru> wrote in news:19909a9a-3387-4a1e-8428-5aba8486ebf2@z8g2000yqb.googlegroups.com:

> I'm point you to russian fourm for see pictures, not for reading.
>
> In this (your) case, I propouse use at middle a tank with fixed
> 1...1.5 uH and 1..10 pF trimmer cap - align this circuit (at same time
> align input and output of filter) until the shape of passband is good
> enough.
>

Bolshoi Spasiba Genadiz!!!
You have even done some design work for me, for which I thank you.
I will go over your sites again as I now have access to a good translation programme.
Vy 73's
Clifford wright New Zealand.

From -3250336237374929565
X-Google-Thread: 241b302a50,ea1653fba47172b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g23g2000vbz.googlegroups.com!not-for-mail
From: genadiz <mgs2001@pochtamt.ru>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: toyocom Xtal filters
Date: Tue, 11 Oct 2011 14:11:34 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <6eee933f-3f5f-4a7f-9281-50a8526a896c@g23g2000vbz.googlegroups.com>
References: <Xns9F7BAF70DBBB7crite40@216.196.97.131> <ec9ce520-b030-4e95-9640-9d413db2b844@f6g2000vbm.googlegroups.com>
 <Xns9F7BF1CEF655Bcrite40@216.196.97.131>
<95904$4e944bd7$d55dfeee$10098@news.chello.nl>
NNTP-Posting-Host: 188.134.5.254
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1318367494 19327 127.0.0.1 (11 Oct 2011 21:11:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 11 Oct 2011 21:11:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g23g2000vbz.googlegroups.com; posting-host=188.134.5.254; posting-account=zgxCzAoAAAAyXxwxDIXc82dvvxgyolOq
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLUEHNKC
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;

```
 Trident/4.0; EasyBits GO v1.0; InfoPath.1; .NET CLR 3.0.4506.2152; .NET CLR
 3.5.30729; .NET4.0C; .NET CLR 1.1.4322; .NET4.0E; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4994

On Oct 11, 5:56=A0pm, "Jan Jongejan, PE1SBG" <Vandaagn...@onbekend.zz>
wrote:
> clifford wright wrote:
> > Unfortunately I don't read Cyrillic. My language skills are
> > mostly in French, German and Maori with a bit of Swedish and about 20
> > words of Russian. 73's Cliff Wright
>
> www.google.com, click More and then Translate. The rest is obvious. It
> translates the russian website very well.
>
> Regards,
> Jan PE1SBG


I'm check result of translation - the major part of semantics is
translated very good.

73!
Genadi UA1ARN



From 6737072221296351350
X-Google-Thread: 241b302a50,ea1653fba47172b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!db5g2000vbb.googlegroups.com!not-for-
mail
From: genadiz <mgs2001@pochtamt.ru>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: toyocom Xtal filters
Date: Tue, 11 Oct 2011 14:34:19 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <e21e08d0-4963-4589-8d57-b6630bb0d89c@db5g2000vbb.googlegroups.com>
References: <Xns9F7BAF70DBBB7crite40@216.196.97.131> <ec9ce520-
b030-4e95-9640-9d413db2b844@f6g2000vbm.googlegroups.com>
 <Xns9F7BF1CEF655Bcrite40@216.196.97.131>
<19909a9a-3387-4a1e-8428-5aba8486ebf2@z8g2000yqb.googlegroups.com>
 <Xns9F7C67A1E509Acrite40@216.196.97.131>
NNTP-Posting-Host: 188.134.5.254
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1318368860 1379 127.0.0.1 (11 Oct 2011 21:34:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 11 Oct 2011 21:34:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: db5g2000vbb.googlegroups.com; posting-host=188.134.5.254; posting-
```

```
account=zgxCzAoAAAAyXxwxDIXc82dvvxgyolOq
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLUEHNKC
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
 Trident/4.0; EasyBits GO v1.0; InfoPath.1; .NET CLR 3.0.4506.2152; .NET CLR
 3.5.30729; .NET4.0C; .NET CLR 1.1.4322; .NET4.0E; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4995

> Bolshoi Spasiba Genadiz!!!
> You have even done some design work for me, for which I thank you.
> I will go over your sites again as I now have access to a good translatio=
n
> programme.
> Vy 73's
> =A0Clifford wright New Zealand.

Especially, I want to point you to new prototype - RX with codename
"Voronenok" =3D Crow child.
http://www.cqham.ru/forum/attachment.php?attachmentid=3D93427
It is a simplified version of my old big boards - only 160*225 mm
size.
No NFM detector and simplified 1-st LO synthesizer.
Bay the way, in a synthesizer way i'm inspired by John Miles KE5FX.
Control program (for Atmega32/Atmega644 or AT91SAM7S64) also uploaded
to forum.


From 4473165954441468869
X-Google-Thread: 241b302a50,31b48cbcae146f53,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k39g2000prl.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT SEX BED ROOM VIDEOS AND 200 BEST ACTRESSES PHOTOS
Date: Wed, 12 Oct 2011 02:49:54 -0700 (PDT)
Organization: http://groups.google.com
Lines: 36
Message-ID: <b9a95b88-3bac-4e9e-b517-0583caad1feb@k39g2000prl.googlegroups.com>
NNTP-Posting-Host: 117.199.244.36
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1318412994 6696 127.0.0.1 (12 Oct 2011 09:49:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 12 Oct 2011 09:49:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k39g2000prl.googlegroups.com; posting-host=117.199.244.36;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-Google-Web-Client: true
```

```
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.23)
 Gecko/20110920 Firefox/3.6.23,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4699




      A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.com/


             ALL HOT PHOTOS SUPER SEXY PHOTOS

http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

               ALL  JOBS   SITES FREE SEE

http://jobstwo.blogspot.com/




HOT VIDEOS

http://hotvideotoou.blogspot.com/2011/01/kiss-videos.html




hot lip kiss
http://hotvidos.blogspot.com/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.com/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.com/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.com/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.com/2010/07/tamil-hot-videos.html





From 5434731899633105269
X-Google-Thread: 241b302a50,ea1653fba47172b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 12 Oct 2011 17:51:04 -0500
Newsgroups: rec.radio.amateur.homebrew
```

Subject: Re: toyocom Xtal filters
From: clifford wright <c.c.wright@paradise.net.nz>
References: <Xns9F7BAF70DBBB7crite40@216.196.97.131> <ec9ce520-
b030-4e95-9640-9d413db2b844@f6g2000vbm.googlegroups.com>
<Xns9F7BF1CEF655Bcrite40@216.196.97.131>
<19909a9a-3387-4a1e-8428-5aba8486ebf2@z8g2000yqb.googlegroups.com>
<Xns9F7C67A1E509Acrite40@216.196.97.131>
Organization: Wright retro radio
Message-ID: <Xns9F7D78860150Ecrite40@216.196.97.131>
User-Agent: Xnews/5.04.25
Date: Wed, 12 Oct 2011 17:51:04 -0500
Lines: 26
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
Nk6K3+wlhP9AHDXNaPoqCJnM7+GDJld7aLwLyYjmsSMjNeHsjh2PuRuHb8Wo7sin4HNxZxbcnsuMJYk!
PV0ohFpTzSx3S7VNC66z8y4i5DNVg/4xo7INyFcXI7DE6q6ttMMyfwrr6oEwDCJnLA==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2250
Xref: g2news1.google.com rec.radio.amateur.homebrew:4700

clifford wright <c.c.wright@paradise.net.nz> wrote in
news:Xns9F7C67A1E509Acrite40@216.196.97.131:

> genadiz <mgs2001@pochtamt.ru> wrote in news:19909a9a-3387-4a1e-8428-
> 5aba8486ebf2@z8g2000yqb.googlegroups.com:
>
>> I'm point you to russian fourm for see pictures, not for reading.
>>
>> In this (your) case, I propouse use at middle a tank with fixed
>> 1...1.5 uH and 1..10 pF trimmer cap - align this circuit (at same time
>> align input and output of filter) until the shape of passband is good
>> enough.
>>
>
> Bolshoi Spasiba Genadiz!!!
> You have even done some design work for me, for which I thank you.
> I will go over your sites again as I now have access to a good translation
> programme.
> Vy 73's
> Clifford wright New Zealand.

Well Genadiz! I have designed the L networks and used your values for the
parallel tuned circuit between them. All is well! As you say you can tidy up
the filter response with the tuned circuit. It goes into the receiver today.
Thank's again for your great help!
Vy73's Cliff wright ZL1BDA.

```
From 5985287241855861423
X-Google-Thread: 241b302a50,18a425d1325c4a55
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 13 Oct 2011 05:28:20 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Anyone with experience of the VK5BR noise canceller?
From: clifford wright <c.c.wright@paradise.net.nz>
References: <Xns9F51A9D2E3crite40@216.196.97.131>
<Xns9F626B98457D8crite40@216.196.97.131>
<Xns9F6252A4AA0C9gwhitealummitedu@69.16.186.7>
<Xns9F63200174ED5crite40@216.196.97.131> <j53i4r$c6u$1@dont-email.me>
<Xns9F676CC5AFBDFcrite40@216.196.97.131>
Organization: Wright retro radio
Message-ID: <Xns9F7DEEBD371A5crite40@216.196.97.131>
User-Agent: Xnews/5.04.25
Date: Thu, 13 Oct 2011 05:28:20 -0500
Lines: 107
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-khQovWo/
TpygMGU4PoNnMyL3ZgS5W9uL2meaRGWB968knsYjFeex0E8dzkRmQs7fV7u367JKgu3uh/x!
7FmfXpYdaZ9pD+Ny37Bfj5uMgHCC4Drg/1E0mn75/IOH1xeWGx2VcDQeh8dFrQbvBg==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 7356
Xref: g2news1.google.com rec.radio.amateur.homebrew:4701

clifford wright <c.c.wright@paradise.net.nz> wrote in
news:Xns9F676CC5AFBDFcrite40@216.196.97.131:

> atec77 <atec77@hotmail.com> wrote in news:j53i4r$c6u$1@dont-email.me:
>
>> On 17/09/2011 1:08 PM, clifford wright wrote:
>>> Doug White<gwhite@alum.mit.edu>  wrote in
>>> news:Xns9F6252A4AA0C9gwhitealummitedu@69.16.186.7:
>>>
>>>>
>>>>
>>>
>>> Thanks Doug I will follow that up.
>>> After all the chips only cost $5 each so paying up to $10
>>> for an adapter wouldn't be too high a price to pay, it saves so much
>>> trouble. I'm 71 and I surprised myself in that, I was, in the end
>>> able to wire all 24 pins. I'll have to redo a few though and I'm very
>>> concerned about the durability of the joints under vibration as it is
```

>>> an electric bike controller for a BLDC sensorless electric motor.
>>>
>>> Atec77. I'm a bit puzzled about your response!
>>> The whole idea of the system is to reduce the QRN we get around here
>>> from nearby elderly 11 Kv power lines above ground.
>>> W have underground power in our subdivision but the crud is (We have
>>> tested it) radiated from the lines themselves.
>>> Obviously it is MUCH easier to null out local stuff like this than
>>> randomly phased and levelled long distance signals. That is what
>>> VK5BR set out to do, with some success.
>>> When I have my new delivery of toroids I will try out my theory on
>>> the tuned phase shift network on the noise amplifier. If there is a
>>> notable difference I'll post it here.
>>> Best Regards Clifford Wright ZL1BDA ex G3NIA.
>> My question relates to the qrm you accept , we recently solved a
>> problem here with an HT line which was determined by various means to
>> be at fault . The power company refused to consider their spark
>> transmitter line was at fault but after taking legal advice and making
>> formal complaint they fixed the problem replacing some ceramics
>> dropping the qrm some 3 to 4 s points and oddly the incoming 240vac
>> got much cleaner . You do as an individual have rights so although
>> laudable in the attempt
>>   to remove the noise (and I admit I have not been studying the
>> discussion) I don't remember mention of your complaints process , feel
>> free to refresh my memory if you wish , once sourced the problem as
>> you discovered may be addressed by various methods , personally I have
>> several tx and rx antennas which when switched between various loop
>> and wires is very successful in assisting communications plus the use
>> of dsp filtering has altered the radio experience considerably ,VA3AGM
>> did some very useful work which is inexpensive and works very well
>> with my sdr and may be used equally with almost any radio you desire .
>> Personally I don't particularly like digital process and revel in the
>> audio on my KWM2 and AWA but sometimes have little choice , so maybe I
>> can help ?
>>
>
> Ah now I understand! Well both my neighbouring fellow ham and I had
> already follwed this up as far as we could go, Indeed we did get quite an
> improvement on the original situation. We had the radio inspectors from
> Auckland out here twice and weny out on a survey with them by car, with a
> whole lot of gear to find tha sources of the interference.
> This resulted in a reduction from S8 on 40 M down to about S5/6. The
> trouble is that I have always been interested in weak signal work on 20
> when I work the Antipodes of the Auckland area (Spain and the Western
> Mediterranean) when the band is apparently very dead. VK5BR's device got
> the noise down almost as much again and I have hopes of an improved and
> higher Q phasing network imprving on that.
> BTW my fellow ham actually works for one of the local power companies!
> NOT our local one unfortunately!
> Of course out here in the country we always have the dreaded electric
> fences clicking in the background!
> As to aerials. Well I have a reasonable QTH near the top of a hill, but
> as I have other hobbies, including amateur astronomy I don't have

> unlimited space (the observatory has to go somewhere).
> So I have a G5RV with proper open wire feeders and the mast that supports
> it is tuned to behave as a 5/8 wave vertical on 20m as well.
> Overall I would say that the vertical is about 4 Decibels worse than the
> G5RV as far as noise pickup is concerned.
> My noise antenna runs along the top of a fence below the G5RV for about
> 3/4 of a wavelength at 14 MHz.
> As an old timer I'm afraid that I am not very enamoured of digital radio
> , it's OK in synthesisers etc but doing it all in software takes all the
> "human" interface out for me. I still use a 1918 morse key for example.
> Some of the gear I have seen lately, you might just as well get on the
> internet!!! However I still build a lot of my own gear and the commercial
> stuff I use has been heavily modified,improved and upgraded.
> 73's Cliff Wright ZL1BDA ex G3NIA
>

Follow up to VK5BR noise canceller as promised.
Well it is all going quite well. The input coils have link windings to
match the input to 50 Ohms and are all wound on the appropriate Amidon
toroids.
Works very well against local QRN on 3.5/7 and 10 MHZ bands.
Not as effective on 14, 18 and 21 Mhz. However I suspect that this might
be partially due to the ferrite grade used in the rf transformers.
Amidon only specify it up to 15 Mhz and I am going to try a grade specified
to 30MHz when I can get some in. BTW I have used the later circuit with 2
transformers to reduce rf losses. The RX/TX circuit shown works well and
doesn't seem to cause any damage to the unit with 200 watts going to the
antenna.
Altogether a very interesting circuit and worth while for those doing weak
signal work, or in a very bad QTH.
One major point however. If you use a vertical and have a horizontal noise
pickup antenna you may well find it very ineffective. Probably it
overwhelms the adjustment range of the RF phasing control, but I have not
determined this yet.
Give it a try if you have problems.
73's Cliff Wright Helensville ZL1BDA ex G3NIA NZVRS

```
From 7937133125535741000
X-Google-Thread: 241b302a50,18a425d1325c4a55
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!weretis.net!
feeder4.news.weretis.net!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: atec77 <atec77@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Anyone with experience of the VK5BR noise canceller?
Date: Fri, 14 Oct 2011 12:33:54 +1000
Organization: A noiseless patient Spider
Lines: 120
Message-ID: <j7872p$9f5$1@dont-email.me>
```

```
References: <Xns9F51A9D2E3crite40@216.196.97.131>
<Xns9F626B98457D8crite40@216.196.97.131>
<Xns9F6252A4AA0C9gwhitealummitedu@69.16.186.7>
<Xns9F63200174ED5crite40@216.196.97.131> <j53i4r$c6u$1@dont-email.me>
<Xns9F676CC5AFBDFcrite40@216.196.97.131> <Xns9F7DEEBD371A5crite40@216.196.97.131>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Fri, 14 Oct 2011 02:34:02 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="boEWUuaP+eHgRsXSv318Bg";
     logging-data="9701"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18PSpNv6t3dVOyTI4cuN+2T"
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:7.0.1) Gecko/20110929
Thunderbird/7.0.1
In-Reply-To: <Xns9F7DEEBD371A5crite40@216.196.97.131>
Cancel-Lock: sha1:lp4+byrN4deDj8q55V47EOsbxtI=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4702

On 13/10/2011 8:28 PM, clifford wright wrote:
> clifford wright<c.c.wright@paradise.net.nz>  wrote in
> news:Xns9F676CC5AFBDFcrite40@216.196.97.131:
>
>> atec77<atec77@hotmail.com>  wrote in news:j53i4r$c6u$1@dont-email.me:
>>
>>> On 17/09/2011 1:08 PM, clifford wright wrote:
>>>> Doug White<gwhite@alum.mit.edu>   wrote in
>>>> news:Xns9F6252A4AA0C9gwhitealummitedu@69.16.186.7:
>>>>
>>>>>
>>>>>
>>>>
>>>> Thanks Doug I will follow that up.
>>>> After all the chips only cost $5 each so paying up to $10
>>>> for an adapter wouldn't be too high a price to pay, it saves so much
>>>> trouble. I'm 71 and I surprised myself in that, I was, in the end
>>>> able to wire all 24 pins. I'll have to redo a few though and I'm very
>>>> concerned about the durability of the joints under vibration as it is
>>>> an electric bike controller for a BLDC sensorless electric motor.
>>>>
>>>> Atec77. I'm a bit puzzled about your response!
>>>> The whole idea of the system is to reduce the QRN we get around here
>>>> from nearby elderly 11 Kv power lines above ground.
>>>> W have underground power in our subdivision but the crud is (We have
>>>> tested it) radiated from the lines themselves.
>>>> Obviously it is MUCH easier to null out local stuff like this than
>>>> randomly phased and levelled long distance signals. That is what
>>>> VK5BR set out to do, with some success.
>>>> When I have my new delivery of toroids I will try out my theory on
>>>> the tuned phase shift network on the noise amplifier. If there is a
>>>> notable difference I'll post it here.
>>>> Best Regards Clifford Wright ZL1BDA ex G3NIA.
>>> My question relates to the qrm you accept , we recently solved a
>>> problem here with an HT line which was determined by various means to
```

>>> be at fault . The power company refused to consider their spark
>>> transmitter line was at fault but after taking legal advice and making
>>> formal complaint they fixed the problem replacing some ceramics
>>> dropping the qrm some 3 to 4 s points and oddly the incoming 240vac
>>> got much cleaner . You do as an individual have rights so although
>>> laudable in the attempt
>>>   to remove the noise (and I admit I have not been studying the
>>> discussion) I don't remember mention of your complaints process , feel
>>> free to refresh my memory if you wish , once sourced the problem as
>>> you discovered may be addressed by various methods , personally I have
>>> several tx and rx antennas which when switched between various loop
>>> and wires is very successful in assisting communications plus the use
>>> of dsp filtering has altered the radio experience considerably ,VA3AGM
>>> did some very useful work which is inexpensive and works very well
>>> with my sdr and may be used equally with almost any radio you desire .
>>> Personally I don't particularly like digital process and revel in the
>>> audio on my KWM2 and AWA but sometimes have little choice , so maybe I
>>> can help ?
>>>
>>
>> Ah now I understand! Well both my neighbouring fellow ham and I had
>> already follwed this up as far as we could go, Indeed we did get quite an
>> improvement on the original situation. We had the radio inspectors from
>> Auckland out here twice and weny out on a survey with them by car, with a
>> whole lot of gear to find tha sources of the interference.
>> This resulted in a reduction from S8 on 40 M down to about S5/6. The
>> trouble is that I have always been interested in weak signal work on 20
>> when I work the Antipodes of the Auckland area (Spain and the Western
>> Mediterranean) when the band is apparently very dead. VK5BR's device got
>> the noise down almost as much again and I have hopes of an improved and
>> higher Q phasing network imprving on that.
>> BTW my fellow ham actually works for one of the local power companies!
>> NOT our local one unfortunately!
>> Of course out here in the country we always have the dreaded electric
>> fences clicking in the background!
>> As to aerials. Well I have a reasonable QTH near the top of a hill, but
>> as I have other hobbies, including amateur astronomy I don't have
>> unlimited space (the observatory has to go somewhere).
>> So I have a G5RV with proper open wire feeders and the mast that supports
>> it is tuned to behave as a 5/8 wave vertical on 20m as well.
>> Overall I would say that the vertical is about 4 Decibels worse than the
>> G5RV as far as noise pickup is concerned.
>> My noise antenna runs along the top of a fence below the G5RV for about
>> 3/4 of a wavelength at 14 MHz.
>> As an old timer I'm afraid that I am not very enamoured of digital radio
>> , it's OK in synthesisers etc but doing it all in software takes all the
>> "human" interface out for me. I still use a 1918 morse key for example.
>> Some of the gear I have seen lately, you might just as well get on the
>> internet!!! However I still build a lot of my own gear and the commercial
>> stuff I use has been heavily modified,improved and upgraded.
>> 73's Cliff Wright ZL1BDA ex G3NIA
>>
>

> Follow up to VK5BR noise canceller as promised.
> Well it is all going quite well. The input coils have link windings to
> match the input to 50 Ohms and are all wound on the appropriate Amidon
> toroids.
> Works very well against local QRN on 3.5/7 and 10 MHZ bands.
> Not as effective on 14, 18 and 21 Mhz. However I suspect that this might
> be partially due to the ferrite grade used in the rf transformers.
> Amidon only specify it up to 15 Mhz and I am going to try a grade specified
> to 30MHz when I can get some in. BTW I have used the later circuit with 2
> transformers to reduce rf losses. The RX/TX circuit shown works well and
> doesn't seem to cause any damage to the unit with 200 watts going to the
> antenna.
> Altogether a very interesting circuit and worth while for those doing weak
> signal work, or in a very bad QTH.
> One major point however. If you use a vertical and have a horizontal noise
> pickup antenna you may well find it very ineffective. Probably it
> overwhelms the adjustment range of the RF phasing control, but I have not
> determined this yet.
> Give it a try if you have problems.
> 73's Cliff Wright Helensville ZL1BDA ex G3NIA NZVRS

I built something very similar to the mfj unit , the cores are specified
to 30 mhz so you should benefit when changing , I can switch between a
horizontal beverage and a sloper and being able to change in such a
manner does in fact have nothing but advantages as well as often
improving rx several s points
  I suggest you try micrometals who have exactly what's required and
good delivery

--
X-No-Archive: Yes

From 6837649680951722743
X-Google-Thread: fc2a5,fc09fa7e14821a00,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.31.73 with SMTP id y9mr11527924pbh.0.1319120732018;
        Thu, 20 Oct 2011 07:25:32 -0700 (PDT)
Path: d5ni36029pbc.0!nntp.google.com!news2.google.com!postnews.google.com!
h39g2000prh.googlegroups.com!not-for-mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ROMANTIC HOT PICS
Date: Thu, 20 Oct 2011 07:25:19 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
Message-ID: <e222072e-63c2-41eb-9569-dea3fa574f2c@h39g2000prh.googlegroups.com>
NNTP-Posting-Host: 117.199.245.6
Mime-Version: 1.0
X-Trace: posting.google.com 1319120731 27675 127.0.0.1 (20 Oct 2011 14:25:31 GMT)

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 20 Oct 2011 14:25:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h39g2000prh.googlegroups.com; posting-host=117.199.245.6; posting-
account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.23)
 Gecko/20110920 Firefox/3.6.23,gzip(gfe)
Xref: news2.google.com rec.radio.amateur.homebrew:1886
Content-Type: text/plain; charset=ISO-8859-1
```

FOR GOOD JOBS SITES TO YOU
http://goodjobssites.blogspot.com/

7TH SENSE MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/10/7th-sense-movie-stills.html
MOGUDU MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/mogudu-movie-stills.html
HANSIKA MATOWNI LATEST HOT STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/hansika-motwani.html
KAJAL AGARWAL HOT PHOTOS
http://actressgallery-kalyani.blogspot.com/2011/09/kajal-agarwal.html
TAMANNA SIRUTHAI HOT MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/siruthai-movie-stills.html
SNEHA HOT GOA MOVIE STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/goa-movie-stills.html
HOT KATRINA KAIF PHOTOS
http://actressgallery-kalyani.blogspot.com/2011/09/katrina-kaif.html
AISHWARYA RAI HOT HQ PHOTO STILLS
http://actressgallery-kalyani.blogspot.com/2011/09/aishwarya-rai.html
ASIN HOT PHOTO GALLERY
http://actressgallery-kalyani.blogspot.com/2011/09/asin.html

FOR ONLY HOT GUYS SEE THIS
PRIYAMANI HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/09/priyamani-hot.html
SAMANTHA LATEST HOT STILLS
http://hotactress-kalyani.blogspot.com/2011/09/samantha-hot.html
ANJALI HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/10/anjali-hot.html
HANSIKA MOTWANI HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/10/hansika-motwani-hot.html
KAJAL AGARWAL LATEST HOT WITHOUT TOP
http://hotactress-kalyani.blogspot.com/2011/08/kajal-agarwal-hot-photos.html
TAMANNA HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/tamanna-hot.html
PRANITHA LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/09/pranitha-hot.html

```
            HOT KATRINAKAIF WALLPAPERS
http://hotactress-kalyani.blogspot.com/2011/08/katrina-kaif-hot.html
             HOT MALLU ACTRESS BHAMA
http://hotactress-kalyani.blogspot.com/2011/09/bhama-hot.html
             TOLLYWOOD HOT ACTRESSES
http://hotactress-kalyani.blogspot.com/2011/08/hot-actrsess.html
            SONAKSHI SINHA HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/09/sonakshi-sinha-hot.html
          PRIYANKA CHOPRA LATEST HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/08/priyanka-chopra-hot.html

                  LATEST    AMISHA PATEL HOT PICS
http://hotactress-kalyani.blogspot.com/2011/08/amisha-patel-hot.html
               TAPSEE DIFFERENT STILLS
http://hotactress-kalyani.blogspot.com/2011/08/tapsee-hot.html
             PRIYAMANI HOT PHOTOS
http://hotactress-kalyani.blogspot.com/2011/09/priyamani-hot.html
```

```
From 5927680732354154451
X-Google-Thread: fc2a5,feb590c0205bd70e,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.8.199 with SMTP id t7mr8131055pba.3.1319398221470;
        Sun, 23 Oct 2011 12:30:21 -0700 (PDT)
Path: c1ni4754pbr.0!nntp.google.com!news1.google.com!goblin3!goblin.stu.neva.ru!
de-l.enfer-du-nord.net!feeder1.enfer-du-nord.net!eternal-september.org!
feeder.eternal-september.org!.POSTED!not-for-mail
From: "John Cooper" <none@none.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: decent, low or moderate cost home brew RF amp?
Date: Sun, 23 Oct 2011 15:30:13 -0400
Organization: A noiseless patient Spider
Lines: 6
Message-ID: <j81q0c$imo$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Sun, 23 Oct 2011 19:30:20 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="O8QFuyYXAzPUxFwP+NPOJQ";
     logging-data="19160"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/nv0td0x5F+Bp+uSWMzPeL"
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6109
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:ZbG3FWKGMpbQZA2tbnsX72/CzqU=
X-Priority: 3
X-MSMail-Priority: Normal
Xref: news1.google.com rec.radio.amateur.homebrew:3178
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
```

Being out of ham for nearly 20 years, I am recently getting back involved on HF voice (10-80 meters). I have a small 2 watt QRP SSB rig that I would like to boost up to at least 100 W PEP in the mobile. What amps are available accepting low drive on HF for >100 w output? How about schematics or plans? Thank you, John

```
From -2604232295765468029
X-Google-Thread: fc2a5,feb590c0205bd70e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.28.2 with SMTP id x2mr6626188pbg.6.1319401561207;
        Sun, 23 Oct 2011 13:26:01 -0700 (PDT)
Path: c1ni4915pbr.0!nntp.google.com!news2.google.com!news.glorb.com!
feeder.erje.net!eternal-september.org!feeder.eternal-september.org!.POSTED!not-
for-mail
From: atec77 <atec77@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: decent, low or moderate cost home brew RF amp?
Date: Mon, 24 Oct 2011 06:25:59 +1000
Organization: A noiseless patient Spider
Lines: 13
Message-ID: <j81t8o$5ti$1@dont-email.me>
References: <j81q0c$imo$1@dont-email.me>
Mime-Version: 1.0
Injection-Date: Sun, 23 Oct 2011 20:26:00 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="boEWUuaP+eHgRsXSv318Bg";
     logging-data="6066"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+SovM9vsZ7wAg0a479L+7/"
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:7.0.1) Gecko/20110929
Thunderbird/7.0.1
In-Reply-To: <j81q0c$imo$1@dont-email.me>
Cancel-Lock: sha1:hKElGMgdfKEP9rzDGDGglB5dpVw=
Xref: news2.google.com rec.radio.amateur.homebrew:1888
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

On 24/10/2011 5:30 AM, John Cooper wrote:
> Being out of ham for nearly 20 years, I am recently getting back
> involved on HF voice (10-80 meters). I have a small 2 watt QRP SSB rig
> that I would like to boost up to at least 100 W PEP in the mobile. What
> amps are available accepting low drive on HF for >100 w output? How
> about schematics or plans? Thank you, John

Valve or s/s ?

http://www.vk4dd.com might give some ideas ?

```
--
X-No-Archive: Yes



From -1551413087370234168
X-Google-Thread: fc2a5,4328074ab921053c,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.14.169 with SMTP id q9mr19680702pbc.2.1319479270842;
        Mon, 24 Oct 2011 11:01:10 -0700 (PDT)
Path: c1ni8390pbr.0!nntp.google.com!news2.google.com!postnews.google.com!
glegroupsg2000goo.googlegroups.com!not-for-mail
From: mad.scientist.jr@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: electret condenser mic question
Date: Mon, 24 Oct 2011 10:45:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 10
Message-ID: <1591656.2540.1319478345037.JavaMail.geo-discussion-forums@yqp37>
Reply-To: rec.radio.amateur.homebrew@googlegroups.com
NNTP-Posting-Host: 76.97.224.10
Mime-Version: 1.0
X-Trace: posting.google.com 1319479270 5572 127.0.0.1 (24 Oct 2011 18:01:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 24 Oct 2011 18:01:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: glegroupsg2000goo.googlegroups.com; posting-host=76.97.224.10;
posting-account=-2IdOAoAAAAuP4BOZLSw5XYf09oEsr3h
User-Agent: G2/1.0
X-Google-Web-Client: true
Xref: news2.google.com rec.radio.amateur.homebrew:1889
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

I have a couple of devices with electret condenser mics, one is an old Casi=
o PDA (running Windows CE), another is a 1/8" headphone adapter with a buil=
t-in microphone (for iPhone/iPad).  Both devices have working mics, but rec=
ordings are noisy. The noise is slightly different in each case. With the P=
DA, recordings have a rumbling noise over them. With the iPhone adapter, re=
cordings have a popping sound that appears every second or so. Does anyone =
recognize these symptoms and can they be fixed with a new electret mic elem=
ent, or by some simple modification such as wiring a resistor or capacitor =
in? (I have a few electret mics taken out of old radios/etc, that may still=
 be good.)


From 4340880224463070839
X-Google-Thread: fc2a5,feb590c0205bd70e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Received: by 10.68.46.193 with SMTP id x1mr40296533pbm.7.1319600403114;
        Tue, 25 Oct 2011 20:40:03 -0700 (PDT)
Path: p6ni2465pbn.0!nntp.google.com!news2.google.com!news.glorb.com!
newsfeed-3001.bay.webtv.net!newssorter-3001.bay.webtv.net!not-for-mail
From: ogrowup@webtv.net (Padraigh ProAmerica)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: decent, low or moderate cost home brew RF amp?
Date: Tue, 25 Oct 2011 23:31:16 -0400
Organization: WebTV Subscriber
Lines: 5
Message-ID: <692-4EA77F04-80@storefull-3172.bay.webtv.net>
References: <j81t8o$5ti$1@dont-email.me>
NNTP-Posting-Host: localhost.webtv.net
Mime-Version: 1.0 (WebTV)
X-WebTV-Signature: 1
     ETAtAhRoFthsxxBb69W4bbwtJkjP/sjL+gIVAMaCUjHz6S0zrWbkbEtOHEUH6YvE
Xref: news2.google.com rec.radio.amateur.homebrew:1890
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
Content-Disposition: Inline
```

Look through back copies of the Radio Amateurs Handbook (ARRL).

--
"History is not a spectator sport."-- Dr. Bruce Freeberg --

```
From -7139616516624616327
X-Google-Thread: fc2a5,cd920ed07f448d43,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.204.148.84 with SMTP id o20mr4807627bkv.6.1319686383545;
        Wed, 26 Oct 2011 20:33:03 -0700 (PDT)
Path: l23ni46204bkv.0!nntp.google.com!news1.google.com!news.glorb.com!
feeder.erje.net!eternal-september.org!feeder.eternal-september.org!.POSTED!not-
for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Kepro BTX-200 Ultra-violet exposure frame for sale
Date: Wed, 26 Oct 2011 22:31:40 -0500
Organization: A noiseless patient Spider
Lines: 25
Message-ID: <j8ajaq$qrk$2@dont-email.me>
Mime-Version: 1.0
Injection-Date: Thu, 27 Oct 2011 03:31:38 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="femdWFrCCglzKUKHHc4IVA";
     logging-data="27508"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+XQMD2zznSUqweZPlujGDy"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.8) Gecko/
20050511 Mnenhy/0.7.2.0
X-Accept-Language: en-us
```

```
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 111026-1, 10/26/2011), Outbound message
Cancel-Lock: sha1:cuMvp9z97mypEr+GK1uTnjxwm84=
Xref: news1.google.com rec.radio.amateur.homebrew:3182
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

I have a circuit board exposure frame for sale.  $100 plus
postage from zip 55082. Payment in US$ in advance by check
or money order. Sorry, no Paypal. Unpackaged weight 35 lbs.

Kepro BTX-200 ultra-violet exposure frame.

Kepro Circuit Systems Inc

12 X 16 inch exposure area.

3 or 5 lamps.  Manual or 0 - 5 minute timer.


It can be viewed at:

http://home.comcast.net/~hsknoll/site/?/photos/
&PHPSESSID=29ec62ea0bf1fe4d25e318b011cf0bbf

or

http://tinyurl.com/yktwxpz   click on photo to enlarge it.

If you are interested, please send me your zip code so I can figure shipping
costs.

Henry   WA0GOZ


From 3511745395252985004
X-Google-Thread: fc2a5,4ededdc50e9be7d6,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Received: by 10.68.35.68 with SMTP id f4mr43832421pbj.5.1319686671180;
        Wed, 26 Oct 2011 20:37:51 -0700 (PDT)
Path: p6ni1810pbn.0!nntp.google.com!news1.google.com!news.glorb.com!
feeder.erje.net!eternal-september.org!feeder.eternal-september.org!.POSTED!not-
for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Realistic Scanning Receiver for sale
Date: Wed, 26 Oct 2011 22:37:52 -0500
Organization: A noiseless patient Spider
Lines: 7
Message-ID: <j8ajme$qrk$8@dont-email.me>
Mime-Version: 1.0
```

```
Injection-Date: Thu, 27 Oct 2011 03:37:50 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="femdWFrCCglzKUKHHc4IVA";
     logging-data="27508"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX189U5YS5QCeC3u595wdIW+T"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.8) Gecko/
20050511 Mnenhy/0.7.2.0
X-Accept-Language: en-us
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 111026-1, 10/26/2011), Outbound message
Cancel-Lock: sha1:hVDwym5kShBeOhnBOTRNx5Mg9vU=
Xref: news1.google.com rec.radio.amateur.homebrew:3183
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
```

I have a Realistic PRO-2003 AM/FM scanning receiver for sale. It is in very good shape and comes with the manual. I'm asking $45 plus postage for it. You may contact me off the newsgroup.

Thanks

Henry

```
From -5824114268313291377
X-Google-Thread: fc2a5,4328074ab921053c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Received: by 10.68.6.70 with SMTP id y6mr10430293pby.6.1319690296197;
        Wed, 26 Oct 2011 21:38:16 -0700 (PDT)
Path: p6ni1967pbn.0!nntp.google.com!news1.google.com!postnews.google.com!
d37g2000prg.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: electret condenser mic question
Date: Wed, 26 Oct 2011 21:25:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 20
Message-ID: <4dae0328-b6b0-4118-b673-233834af7eea@d37g2000prg.googlegroups.com>
References: <1591656.2540.1319478345037.JavaMail.geo-discussion-forums@yqp37>
NNTP-Posting-Host: 50.46.189.195
Mime-Version: 1.0
X-Trace: posting.google.com 1319690296 3041 127.0.0.1 (27 Oct 2011 04:38:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 27 Oct 2011 04:38:16 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d37g2000prg.googlegroups.com; posting-host=50.46.189.195; posting-
account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:7.0.1) Gecko/20100101 Firefox/
7.0.1,gzip(gfe)
```

```
Xref: news1.google.com rec.radio.amateur.homebrew:3184
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
```

```
On Oct 24, 10:45=A0am, mad.scientist...@gmail.com wrote:
> I have a couple of devices with electret condenser mics, one is an old Ca=
sio PDA (running Windows CE), another is a 1/8" headphone adapter with a bu=
ilt-in microphone (for iPhone/iPad). =A0Both devices have working mics, but=
 recordings are noisy. The noise is slightly different in each case. With t=
he PDA, recordings have a rumbling noise over them. With the iPhone adapter=
, recordings have a popping sound that appears every second or so. Does any=
one recognize these symptoms and can they be fixed with a new electret mic =
element, or by some simple modification such as wiring a resistor or capaci=
tor in? (I have a few electret mics taken out of old radios/etc, that may s=
till be good.)
```

My guess is that the noises are not the fault of the mic. That said,
you can always try another mic. Does either device offer the option
of recording an external input (not the built-in mic)? If so, try
that--I guess with the second device it IS an external mic. Some
noises are inherent in various lossy compression schemes, and some
devices (especially ones with a lot of digital stuff going on inside
them) don't do a very good job shielding sensitive analog inputs such
as a mic input from electrical noise generated in the device.

```
From -8388254147662777387
X-Google-Thread: fc2a5,3e8770642166d67
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 31 May 2011 00:10:07 -0500
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
<V8OdnUDHTty4u3nQnZ2dnUVZ5oednZ2d@giganews.com> <8d03ea47-1543-46f0-ae71-
cd80cc5a0614@z33g2000yqb.googlegroups.com>
In-Reply-To: <8d03ea47-1543-46f0-ae71-cd80cc5a0614@z33g2000yqb.googlegroups.com>
Subject: Re: vr tube replacement
Date: Mon, 30 May 2011 22:10:04 -0700
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18417
```

Message-ID: <b5WdnWdOIIKy5XnQnZ2dnUVZ5gudnZ2d@giganews.com>
Lines: 56
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
yj2OxtsfJ8Vcqrz5X+yvmfhp2kJMo4ya2I3uaPgnDxlyjcoTi3hiWTIXR0CFgQ5ZQAlEKa/dkVKAu2p!
IJPOlD2+gRwam/txI9Qm4Is2svREosLvmsIVsJ15M2IJIjKohPPDrppq0iUhKAkVJf0UWRbAX8s=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 3454
Xref: g2news2.google.com rec.radio.amateur.homebrew:4753

"raypsi" <rborowiak@gmail.com> wrote in message
news:8d03ea47-1543-46f0-ae71-cd80cc5a0614@z33g2000yqb.googlegroups.com...
On May 30, 7:20 pm, "coffelt2" <coffe...@comcast.net> wrote:
> "JIMMIE" <JIMMIEDEE...@YAHOO.COM> wrote in message
>
> news:57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com...
>
> >I want to replace the vr 0A3 tube used in the bias circuit of a 6146B
> > amp with a 75V zener string. Can I just directly replace the tube with
> > the diodes or will I need to make other modifications to the circuit?
>
> > Jimmie
>
> Don't know if I read all the responses, but I hope someone explained the
> need to provide a series current limiting resistor in the zener string.
> Something that would keep the no load current up near the top of the
> zener's
> operating range would be good.
>
> Old Chief Lynn, W7LTQ

Hey OM:

That resistor is part of the OA3 circuit. All you need is noisy zeners
that can handle the current. You would need 3 watts worth of zeners.
Three 25 volt 1 watt zeners, or five 15 volt 1 watt would give you
more head room. Or 15, 5 volt 1/2 watt zeners, or 1/4 watt. Put 15 SMD
5volt 1/4 watt zeners between the 2 pins on an octal plug, pin 2
connect the anode of the zener string and pin 5 connect the cathode of
the zener string. If you are lucky you can find a 5 watt 75 volt zener

73 OM

de n8zu

GE raypsi,

Wow, what happens when one is asleep! "programmable zener TL431?" One
of the hundreds
of devices that have slipped under my radar!
Is it as noisy in operation as just a few zeners?
My experiences as are no doubt yours too, are that solid state devices
inserted into
vacuum tube perfected circuits just add to the noise generated by computers,
cell phones,
switching power supplies etc.
Do you then need two of those little stinkers (TL431) to come up with
drive for series
FET? (shooting for 75 or so volts, I take it) (or am I too old to understand
solid state?)

TU RAYPSI

W7LTQ

From 561950621843467037
X-Google-Thread: fc2a5,3e8770642166d67
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 31 May 2011 06:44:39 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
<V8OdnUDHTty4u3nQnZ2dnUVZ5oednZ2d@giganews.com> <8d03ea47-1543-46f0-ae71-
cd80cc5a0614@z33g2000yqb.googlegroups.com>
<b5WdnWdOIIKy5XnQnZ2dnUVZ5gudnZ2d@giganews.com>
Subject: Re: vr tube replacement
Date: Tue, 31 May 2011 06:44:37 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6090
X-RFC2646: Format=Flowed; Response
Message-ID: <jpqdnRTRMLA6SXnQnZ2dnUVZ_gOdnZ2d@giganews.com>
Lines: 71
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-e8fNCnfBQad+ByPlP21L4IUvzZJ4eL0KHpP1hh/
n7CsU8KKpehJqtDIdBt2AO+kKkyig8g3DLZw2+sz!
0kl8xo6vAEy4bYDsOchl0dO0k14j67+u2qTHiwLkQzG2q+vuqmGmyrc3TUes7hNFUUr9R5rTU4gT
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly

```
X-Postfilter: 1.3.40
X-Original-Bytes: 3739
Xref: g2news2.google.com rec.radio.amateur.homebrew:4754

coffelt2 wrote:
> "raypsi" <rborowiak@gmail.com> wrote in message
> news:8d03ea47-1543-46f0-ae71-cd80cc5a0614@z33g2000yqb.googlegroups.com...
> On May 30, 7:20 pm, "coffelt2" <coffe...@comcast.net> wrote:
>> "JIMMIE" <JIMMIEDEE...@YAHOO.COM> wrote in message
>>
>> news:57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com...
>>
>>> I want to replace the vr 0A3 tube used in the bias circuit of a
>>> 6146B amp with a 75V zener string. Can I just directly replace the
>>> tube with the diodes or will I need to make other modifications to
>>> the circuit?
>>
>>> Jimmie
>>
>> Don't know if I read all the responses, but I hope someone explained
>> the need to provide a series current limiting resistor in the zener
>> string. Something that would keep the no load current up near the
>> top of the zener's
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>>
>> Old Chief Lynn, W7LTQ
>
> Hey OM:
>
>
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> that can handle the current. You would need 3 watts worth of zeners.
> Three 25 volt 1 watt zeners, or five 15 volt 1 watt would give you
> more head room. Or 15, 5 volt 1/2 watt zeners, or 1/4 watt. Put 15 SMD
> 5volt 1/4 watt zeners between the 2 pins on an octal plug, pin 2
> connect the anode of the zener string and pin 5 connect the cathode of
> the zener string. If you are lucky you can find a 5 watt 75 volt zener
>
> 73 OM
>
> de n8zu
>
> GE raypsi,
>     Wow, what happens when one is asleep! "programmable zener TL431?"
> One of the hundreds
> of devices that have slipped under my radar!
>     Is it as noisy in operation as just a few zeners?
>     My experiences as are no doubt yours too, are that solid state
> devices inserted into
> vacuum tube perfected circuits just add to the noise generated by
> computers, cell phones,
> switching power supplies etc.
>     Do you then need two of those little stinkers (TL431) to come up
```

> with drive for series
> FET? (shooting for 75 or so volts, I take it) (or am I too old to
> understand solid state?)
>
> TU RAYPSI
>
> W7LTQ

Mouser stocks a 75V, 5W zener
(http://www.mouser.com/ProductDetail/ON-Semiconductor/1N5374BG/?qs=sGAEpiMZZMstCHp3EWKGl2gui9JjXqQ8miO99TtxueA%3d)
that should do the job. Cheap at $0.36 each.
http://www.mouser.com

You can also download the datasheet from that page.

--
David
dgminala at mediacombb dot net

From 1209669267919307437
X-Google-Thread: fc8b1,ead4143fdbec2dad,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,ead4143fdbec2dad,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,ead4143fdbec2dad,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gidda6537b9fb,gidd7f5508063,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-out.readnews.com!news-xxxfer.readnews.com!newspump.sol.net!news.mv.net!schorl.mv.net!arthures
From: Art Sowers <arthures@mv.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: WTB: Collins F455J-? Mechanical Filters
Date: Tue, 31 May 2011 10:12:06 -0400
Organization: MV Communications, Inc.
Lines: 11
Message-ID: <alpine.BSF.2.00.1105311008450.21370@schorl.mv.net>
NNTP-Posting-Host: schorl.mv.net
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; format=flowed; charset=US-ASCII
X-Trace: pyrite.mv.net 1306851128 35128 199.125.85.153 (31 May 2011 14:12:08 GMT)
X-Complaints-To: abuse@mv.net
NNTP-Posting-Date: Tue, 31 May 2011 14:12:08 +0000 (UTC)
X-X-Sender: arthures@schorl.mv.net

User-Agent: Alpine 2.00 (BSF 1167 2008-08-23)
Xref: g2news1.google.com rec.radio.amateur.boatanchors:4505
rec.radio.amateur.equipment:2606 rec.radio.amateur.homebrew:4458

I'm interested in getting several of these filters (for the 75A4):

500 Hz, anything between up to but not including 3.1 kHz.

Need sources, prices.

Make reply post or send private email to the source of this post
(=arthures@mv.com)

Thanks.

From -8818180469412499891
X-Google-Thread: fc8b1,ead4143fdbec2dad
X-Google-NewGroupId: yes
X-Google-Thread: 108122,ead4143fdbec2dad
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,ead4143fdbec2dad
X-Google-NewGroupId: yes
X-Google-Attributes:
gidda6537b9fb,gidd7f5508063,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.249.MISMATCH!transit3.readnews.com!news-out.readnews.com!news-
xxxfer.readnews.com!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: WTB: Collins F455J-? Mechanical Filters
Date: 31 May 2011 11:18:04 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 25
Message-ID: <is30rc$28t$1@panix2.panix.com>
References: <alpine.BSF.2.00.1105311008450.21370@schorl.mv.net>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1306855084 3233 166.84.1.2 (31 May 2011 15:18:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 31 May 2011 15:18:04 +0000 (UTC)
Xref: g2news1.google.com rec.radio.amateur.boatanchors:4506
rec.radio.amateur.equipment:2607 rec.radio.amateur.homebrew:4459

Art Sowers <arthures@mv.com> wrote:
>
>I'm interested in getting several of these filters (for the 75A4):
>
>500 Hz, anything between up to but not including 3.1 kHz.

>
>Need sources, prices.

Rockwell-Collins still makes the size J filters. From the 2005 catalogue:

NSN	Type	Bandwidth
526-9089-000	F455J-31	2.8
526-9091-000	F455J-60	5.5
526-9154-000	F455J-05	0.38
526-9155-000	F455J-15	1.2
526-9156-000	F455J-21	2

You can also make adaptors out of perfboard to fit the PC board mount filters onto a socket, if you find them at a hamfest.

Otherwise try collinsfilters@rockwellcollins.com.
--scott
--
"C'est un Nagra. C'est suisse, et tres, tres precis."

From 1185725361997557250
X-Google-Thread: fc8b1,ead4143fdbec2dad
X-Google-NewGroupId: yes
X-Google-Thread: 108122,ead4143fdbec2dad
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,ead4143fdbec2dad
X-Google-NewGroupId: yes
X-Google-Attributes:
gidda6537b9fb,gidd7f5508063,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!bloom-beacon.mit.edu!newsswitch.lcs.mit.edu!nntp.TheWorld.com!
news.mv.net!schorl.mv.net!arthures
From: Art Sowers <arthures@mv.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: WTB: Collins F455J-? Mechanical Filters
Date: Tue, 31 May 2011 12:48:41 -0400
Organization: MV Communications, Inc.
Lines: 36
Message-ID: <alpine.BSF.2.00.1105311247170.38094@schorl.mv.net>
References: <alpine.BSF.2.00.1105311008450.21370@schorl.mv.net>
<is30rc$28t$1@panix2.panix.com>
NNTP-Posting-Host: schorl.mv.net
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: pyrite.mv.net 1306860523 37696 199.125.85.153 (31 May 2011 16:48:43 GMT)
X-Complaints-To: abuse@mv.net
NNTP-Posting-Date: Tue, 31 May 2011 16:48:43 +0000 (UTC)
X-X-Sender: arthures@schorl.mv.net

```
In-Reply-To: <is30rc$28t$1@panix2.panix.com>
User-Agent: Alpine 2.00 (BSF 1167 2008-08-23)
Xref: g2news1.google.com rec.radio.amateur.boatanchors:4507
rec.radio.amateur.equipment:2608 rec.radio.amateur.homebrew:4460


On Tue, 31 May 2011, Scott Dorsey wrote:

> Art Sowers  <arthures@mv.com> wrote:
>>
>> I'm interested in getting several of these filters (for the 75A4):
>>
>> 500 Hz, anything between up to but not including 3.1 kHz.
>>
>> Need sources, prices.
>
> Rockwell-Collins still makes the size J filters.  From the 2005 catalogue:

How interesting!!!

>
> NSN             Type           Bandwidth
> 526-9089-000    F455J-31       2.8
> 526-9091-000    F455J-60       5.5
> 526-9154-000    F455J-05       0.38
> 526-9155-000    F455J-15       1.2
> 526-9156-000    F455J-21       2
>
> You can also make adaptors out of perfboard to fit the PC board mount
> filters onto a socket, if you find them at a hamfest.
>
> Otherwise try collinsfilters@rockwellcollins.com.

Thanks a lot!!!!

Art

> --scott
> --
> "C'est un Nagra. C'est suisse, et tres, tres precis."
>



From 2331193913540813514
X-Google-Thread: fc2a5,3e8770642166d67
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!16g2000yqy.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: vr tube replacement
```

```
Date: Tue, 31 May 2011 14:23:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 91
Message-ID: <2c825235-b781-48ed-b40c-75f0db25bd63@16g2000yqy.googlegroups.com>
References: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
 <V8OdnUDHTty4u3nQnZ2dnUVZ5oednZ2d@giganews.com> <8d03ea47-1543-46f0-ae71-
cd80cc5a0614@z33g2000yqb.googlegroups.com>
 <b5WdnWdOIIKy5XnQnZ2dnUVZ5gudnZ2d@giganews.com>
NNTP-Posting-Host: 68.40.220.70
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1306876985 21946 127.0.0.1 (31 May 2011 21:23:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 31 May 2011 21:23:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 16g2000yqy.googlegroups.com; posting-host=68.40.220.70; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.19)
 Gecko/20110420 SeaMonkey/2.0.14,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4758

On May 31, 1:10=A0am, "coffelt2" <coffe...@comcast.net> wrote:
> "raypsi" <rborow...@gmail.com> wrote in message
>
> news:8d03ea47-1543-46f0-ae71-cd80cc5a0614@z33g2000yqb.googlegroups.com...
> On May 30, 7:20 pm, "coffelt2" <coffe...@comcast.net> wrote:
>
>
>
> > "JIMMIE" <JIMMIEDEE...@YAHOO.COM> wrote in message
>
> >news:57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com..=
.
>
> > >I want to replace the vr 0A3 tube used in the bias circuit of a 6146B
> > > amp with a 75V zener string. Can I just directly replace the tube wit=
h
> > > the diodes or will I need to make other modifications to the circuit?
>
> > > Jimmie
>
> > Don't know if I read all the responses, but I hope someone explained th=
e
> > need to provide a series current limiting resistor in the zener string.
> > Something that would keep the no load current up near the top of the
> > zener's
> > operating range would be good.
>
> > Old Chief Lynn, W7LTQ
```

>
> Hey OM:
>
> That resistor is part of the OA3 circuit. All you need is noisy zeners
> that can handle the current. You would need 3 watts worth of zeners.
> Three 25 volt 1 watt zeners, or five 15 volt 1 watt would give you
> more head room. Or 15, 5 volt 1/2 watt zeners, or 1/4 watt. Put 15 SMD
> 5volt 1/4 watt zeners between the 2 pins on an octal plug, pin 2
> connect the anode of the zener string and pin 5 connect the cathode of
> the zener string. If you are lucky you can find a 5 watt 75 volt zener
>
> 73 OM
>
> de n8zu
>
> GE raypsi,
> =A0 =A0 =A0Wow, what happens when one is asleep! "programmable zener TL43=
1?" One
> of the hundreds
> of devices that have slipped under my radar!
> =A0 =A0 =A0Is it as noisy in operation as just a few zeners?
> =A0 =A0 =A0My experiences as are no doubt yours too, are that solid state=
 devices
> inserted into
> vacuum tube perfected circuits just add to the noise generated by compute=
rs,
> cell phones,
> switching power supplies etc.
> =A0 =A0 =A0Do you then need two of those little stinkers (TL431) to come =
up with
> drive for series
> FET? (shooting for 75 or so volts, I take it) (or am I too old to underst=
and
> solid state?)
>
> TU RAYPSI
>
> W7LTQ

Hey OT:

I used a programmable zener TL431 in an SMD package because in SMD
they were 1%. Then I just use the math to figure the resistors to
program it to the voltage for an OA2. I've replaced OA2's in 3 of my
EICO 753's, along with the Zeners they use in the VFO, with TL431's.
To wit all the TL431 is, is an 60db op amp with an internal temp
stabilized zener. Without temp stabilization a straight zener will
drift all over the place, with temp changes, I've seen 15 volt zeners
go down to 12 volts when heated up. So that string of 5 zeners would
get down to 60 volts when things get hot.
And as far as noise goes you can't use negative feedback in a zener.
The noise goes back into the input of a TL431 and gets canceled out.
You could let it go and just like a zener it would make a great noise

bridge source.

The main issue is temperature compensation, a zener will go down in
voltage when heated up, so if you use a zener you best put it in a
temp controlled oven. And you can use a TL431 to control the temp. of
that oven.

73 OT
de n8zu

From -8510849487447457278
X-Google-Thread: fc8b1,ead4143fdbec2dad
X-Google-NewGroupId: yes
X-Google-Thread: 108122,ead4143fdbec2dad
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,ead4143fdbec2dad
X-Google-NewGroupId: yes
X-Google-Attributes:
gidda6537b9fb,gidd7f5508063,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!transit3.readnews.com!
news-out.readnews.com!news-xxxfer.readnews.com!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: WTB: Collins F455J-? Mechanical Filters
Date: 31 May 2011 18:20:46 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 17
Message-ID: <is3pju$5st$1@panix2.panix.com>
References: <alpine.BSF.2.00.1105311008450.21370@schorl.mv.net>
<is30rc$28t$1@panix2.panix.com> <is3lhm$bql$2@dk3uz.ampr.org>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1306880446 14540 166.84.1.2 (31 May 2011 22:20:46 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 31 May 2011 22:20:46 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.boatanchors:4865
rec.radio.amateur.equipment:2824 rec.radio.amateur.homebrew:4760

Edmund H. Ramm <dk3uz@arrl.net> wrote:
>In <is30rc$28t$1@panix2.panix.com> kludge@panix.com (Scott Dorsey) writes:
>
>> Rockwell-Collins still makes the size J filters. From the 2005 catalogue:
>> [...]
>
>   Dave Curry Longwave Product's mechanical filters (exact replacements
>for Collins ones) reportedly have less insertion loss and better skirts.
>See Electric Radio magazine for more info.

Does 'better' mean tighter or less ringing?

There are sure times when I wish I had a less nasty-sounding filter for
AM on the R-390.
--scott
--
"C'est un Nagra. C'est suisse, et tres, tres precis."

```
From 8032481964005552984
X-Google-Thread: fc2a5,e39dcc53c16dd65,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!d19g2000prh.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT COUPLE MID NIGHT VIDEOS N PHOTOS
Date: Tue, 31 May 2011 17:55:21 -0700 (PDT)
Organization: http://groups.google.com
Lines: 34
Message-ID: <a083a753-8829-44f5-b44f-03d6f891f6ee@d19g2000prh.googlegroups.com>
NNTP-Posting-Host: 117.199.240.91
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1306889722 20043 127.0.0.1 (1 Jun 2011 00:55:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 1 Jun 2011 00:55:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d19g2000prh.googlegroups.com; posting-host=117.199.240.91;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.17)
 Gecko/20110420 Firefox/3.6.17,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4761
```

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss

http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

```
From -6067731918835145940
X-Google-Thread: fcc6e,7ac82effa778818c,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,7ac82effa778818c,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,7ac82effa778818c,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,7ac82effa778818c,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,7ac82effa778818c,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,7ac82effa778818c,start
X-Google-NewGroupId: yes
X-Google-Thread: 10e8ad,7ac82effa778818c,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,7ac82effa778818c,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf6,gid8f86f75953,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-out.readnews.com!news-xxxfer.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1304229601@panix.com>
```

Followup-To: poster
Date: 1 Jun 2011 02:00:03 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 04 Jul 2011 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1306908001@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1306908004 7683 166.84.1.2 (1 Jun 2011 06:00:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 1 Jun 2011 06:00:04 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Xref: g2news1.google.com rec.radio.amateur.antenna:21588 rec.radio.amateur.dx:997
rec.radio.amateur.equipment:2611 rec.radio.amateur.homebrew:4465
rec.radio.amateur.misc:6257 rec.radio.amateur.policy:30508
rec.radio.amateur.space:505 rec.radio.info:2389

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From -8555462975330350422
X-Google-Thread: fc2a5,2e9e9576489a2788,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!c1g2000yqe.googlegroups.com!not-for-
mail
From: fitz <zeusrdx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ! FREE e-books ! ---- MAGPUL INDUSTRIES has just paid to allow
 everyone to read Fitzpatrick's books FREE.
Date: Wed, 1 Jun 2011 05:01:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 8
Message-ID: <d303339e-4708-4811-88af-a85741353226@c1g2000yqe.googlegroups.com>
NNTP-Posting-Host: 204.116.183.53
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1306929713 29676 127.0.0.1 (1 Jun 2011 12:01:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 1 Jun 2011 12:01:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c1g2000yqe.googlegroups.com; posting-host=204.116.183.53; posting-
account=A451vgoAAAByсJv5ugpkfX8QG96-xuRZ
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLUEHNKC
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1; WOW64;
 Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
 3.0.30729; Media Center PC 6.0; CPDTDF),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4763
```

! FREE e-books ! ---- MAGPUL INDUSTRIES has just paid to allow everyone to read Fitzpatrick's books FREE.

(Click blue link to read Fitzpatrick's books absolutely FREE.}

http://www.rbduncan.com/4.decades.htm

```
From -7969169690063531496
X-Google-Thread: 108122,ead4143fdbec2dad
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,ead4143fdbec2dad
X-Google-NewGroupId: yes
X-Google-Attributes: gidd7f5508063,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!usenet.stanford.edu!
usenet.osg.ufl.edu!news.lightlink.com!news.mv.net!schorl.mv.net!arthures
From: Art Sowers <arthures@mv.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebr
ew
Subject: Re: WTB: Collins F455J-? Mechanical Filters
Date: Wed, 1 Jun 2011 08:40:44 -0400
Organization: MV Communications, Inc.
Lines: 54
Message-ID: <alpine.BSF.2.00.1106010821380.31531@schorl.mv.net>
References: <alpine.BSF.2.00.1105311008450.21370@schorl.mv.net>
<is30rc$28t$1@panix2.panix.com> <is3lhm$bql$2@dk3uz.ampr.org>
<is3pju$5st$1@panix2.panix.com>
NNTP-Posting-Host: schorl.mv.net
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: pyrite.mv.net 1306932045 66098 199.125.85.153 (1 Jun 2011 12:40:45 GMT)
X-Complaints-To: abuse@mv.net
NNTP-Posting-Date: Wed, 1 Jun 2011 12:40:45 +0000 (UTC)
X-X-Sender: arthures@schorl.mv.net
In-Reply-To: <is3pju$5st$1@panix2.panix.com>
User-Agent: Alpine 2.00 (BSF 1167 2008-08-23)
Xref: g2news1.google.com rec.radio.amateur.boatanchors:4510
rec.radio.amateur.equipment:2612 rec.radio.amateur.homebrew:4467


On Tue, 31 May 2011, Scott Dorsey wrote:

> Edmund H. Ramm <dk3uz@arrl.net> wrote:
>> In <is30rc$28t$1@panix2.panix.com> kludge@panix.com (Scott Dorsey) writes:
>>
>>> Rockwell-Collins still makes the size J filters.  From the 2005 catalogue:
>>> [...]
>>
>>   Dave Curry Longwave Product's mechanical filters (exact replacements
>> for Collins ones) reportedly have less insertion loss and better skirts.
>> See Electric Radio magazine for more info.
```

>
> Does 'better' mean tighter or less ringing?
>
> There are sure times when I wish I had a less nasty-sounding filter for
> AM on the R-390.
> --scott

I'll have to put on my "to do" list that I need to search the web for sources of these filters (as well as ER magazine). And, see if Collins has a website of their own (I should have done that, too, but I have variable lazyness...and I'm not in a big hurry on this project).

I did send to that Collins email address a request for further information and have not, as yet, received an answer (I notice email responses to email queries can be all over the spectrum from minutes later to days later to no answer at all).

For a nice-sounding CW filter, I have used an audio frequency equalizer (picked up mine from a thrift store for $5, its a Realistic [Radio Shack] jobber). I max boost 500 Hz sliding pot on both channels, and max depress the pots on all other frequencies, and feed speaker output into input of one channel, output of that channel into input of the other channel, and run output of other channel into input of an amplifier driving either a speaker or earphones. Bandwidth "sounds" (not measured) like maybe about 300-400 Hz. The next frequencies above and below 500 Hz are 250 Hz and 1 kHz. I might get narrower if I boost at 250, etc, but tone is too low for my ears. I thought I wasn't getting any detectable ringing at all on this setup. The calibrations are max/min 12 db, so that should put unwanted frequencies down 24+ db per channel, or 48 db for both, no?

Scott, for AM on the R-390: are you sure its the filter? Not distortion in the audio string? Have you tried any other post detection path (eg. a separate receiver, even an old AM radio where you feet the 455 kc output from the R-390 to the input of the IF on the AM radio and see what audio quality you can get? I'm not familiar with the R390 (does it have mechanical filters?).

> --
> "C'est un Nagra. C'est suisse, et tres, tres precis."
>

From 2443835572832417891
X-Google-Thread: fc8b1,ead4143fdbec2dad
X-Google-NewGroupId: yes
X-Google-Thread: 108122,ead4143fdbec2dad
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,ead4143fdbec2dad
X-Google-NewGroupId: yes
X-Google-Attributes:
gidda6537b9fb,gidd7f5508063,gid241b302a50,domainid0,public,usenet

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!transit3.readnews.com!news-out.readnews.com!news-xxxfer.readnews.com!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: WTB: Collins F455J-? Mechanical Filters
Date: 1 Jun 2011 11:06:56 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 35
Message-ID: <is5kig$1l2$1@panix2.panix.com>
References: <alpine.BSF.2.00.1105311008450.21370@schorl.mv.net>
<is3lhm$bql$2@dk3uz.ampr.org> <is3pju$5st$1@panix2.panix.com>
<alpine.BSF.2.00.1106010821380.31531@schorl.mv.net>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1306940816 2287 166.84.1.2 (1 Jun 2011 15:06:56 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 1 Jun 2011 15:06:56 +0000 (UTC)
Xref: g2news1.google.com rec.radio.amateur.boatanchors:4511
rec.radio.amateur.equipment:2613 rec.radio.amateur.homebrew:4468

Art Sowers <arthures@mv.com> wrote:
>For a nice-sounding CW filter, I have used an audio frequency equalizer
>(picked up mine from a thrift store for $5, its a Realistic [Radio Shack]
>jobber). I max boost 500 Hz sliding pot on both channels, and max depress
>the pots on all other frequencies, and feed speaker output into input of
>one channel, output of that channel into input of the other channel, and
>run output of other channel into input of an amplifier driving either a
>speaker or earphones. Bandwidth "sounds" (not measured) like maybe about
>300-400 Hz. The next frequencies above and below 500 Hz are 250 Hz and
>1 kHz. I might get narrower if I boost at 250, etc, but tone is too low
>for my ears. I thought I wasn't getting any detectable ringing at all
>on this setup. The calibrations are max/min 12 db, so that should put
>unwanted frequencies down 24+ db per channel, or 48 db for both, no?

You might try setting the filters on the two ears a little bit different, so that higher tones are to the right and lower tones are to the left. I find this helps pick out signals from a pileup.

The filters on those cheap EQs are probably fairly wide; you can measure the Q with a meter and a signal generator if you want to really know.

>Scott, for AM on the R-390: are you sure its the filter? Not distortion in
>the audio string? Have you tried any other post detection path (eg. a
>separate receiver, even an old AM radio where you feet the 455 kc output
>from the R-390 to the input of the IF on the AM radio and see what audio
>quality you can get? I'm not familiar with the R390 (does it have
>mechanical filters?).

There is lots of distortion in the audio string, although the line output is definitely much cleaner than the speaker level output. However, there is

just outrageous amounts of ringing on the 8KC filter. If I go to the 16 KC
filter it's much cleaner but of course there's a wider bandwidth too.
--scott
--
"C'est un Nagra. C'est suisse, et tres, tres precis."

From -4144094103027438913
X-Google-Thread: fc8b1,ead4143fdbec2dad
X-Google-NewGroupId: yes
X-Google-Thread: 108122,ead4143fdbec2dad
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,ead4143fdbec2dad
X-Google-NewGroupId: yes
X-Google-Attributes:
gidda6537b9fb,gidd7f5508063,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!17g2000prr.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: WTB: Collins F455J-? Mechanical Filters
Date: Wed, 1 Jun 2011 10:44:07 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <1239e5d8-3443-40b4-8e68-701937295902@17g2000prr.googlegroups.com>
References: <alpine.BSF.2.00.1105311008450.21370@schorl.mv.net>
NNTP-Posting-Host: 50.46.189.195
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1306950248 22125 127.0.0.1 (1 Jun 2011 17:44:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 1 Jun 2011 17:44:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 17g2000prr.googlegroups.com; posting-host=50.46.189.195; posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:2.0.1) Gecko/20100101 Firefox/4.0.1,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.boatanchors:4512
rec.radio.amateur.equipment:2614 rec.radio.amateur.homebrew:4469

On May 31, 7:12=A0am, Art Sowers <arthu...@mv.com> wrote:
> I'm interested in getting several of these filters (for the 75A4):
>
> 500 Hz, anything between up to but not including 3.1 kHz.
>
> Need sources, prices.

>
> Make reply post or send private email to the source of this post
> (=3Darthu...@mv.com)
>
> Thanks.

FWIW, I have an F 455 J 31 in front of me that I'd be happy to part with for any reasonable payment. As far as I know, it's in good condition, removed from (if I'm not mistaken) a Collins 490T HF avionics transceiver. I'd be happy to check it on an HP8753ES network analyzer to insure it's OK, if I find info on pin connections and in/out matching to the analyzer's 50+j0 ohms. I gather this is the one you _don't_ need, but perhaps someone else does. (Looks like probably pins 1&2, and 6&7, are the in/out...9 pin miniature tube base.)

Cheers,
Tom

```
From 962758244336447282
X-Google-Thread: fc2a5,3e8770642166d67
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g24g2000vbz.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: vr tube replacement
Date: Wed, 1 Jun 2011 11:54:18 -0700 (PDT)
Organization: http://groups.google.com
Lines: 52
Message-ID: <3beaeec2-6a1c-477f-875f-8770e1ba9b4f@g24g2000vbz.googlegroups.com>
References: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
 <3846a2b4-23a9-4610-91f9-0b279b8b39a8@a7g2000vby.googlegroups.com> <3bb46cee-
f4bb-4280-96cf-3698cdcadb28@e26g2000vbz.googlegroups.com>
NNTP-Posting-Host: 170.121.14.11
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1306954459 31736 127.0.0.1 (1 Jun 2011 18:54:19 GMT)
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Complaints-To: groups-abuse@google.com
Injection-Info: g24g2000vbz.googlegroups.com; posting-host=170.121.14.11; posting-
account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HNKRUAELSC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1) AppleWebKit/534.24 (KHTML, like
 Gecko) Chrome/11.0.696.68 Safari/534.24,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4767
```

On May 29, 2:15=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> On May 29, 10:59=A0am, TimShoppa<sho...@trailing-edge.com> wrote:
>
>
>
>
>
>
>
>
>
> > On May 29, 8:23=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
> > > I want to replace the vr 0A3 tube used in the bias circuit of a 6146B
> > > amp with a 75V zener string. Can I just directly replace the tube wit=
h
> > > the diodes or =A0will I need to make other modifications to the circu=
it?
>
> > > Jimmie
>
> > Typical OA3 is idling with between 5 and 40mA of current flowing
> > through it, so make sure the zener string can dissipate the power.
> > (75V * 0.040A =3D 3 watts worst case, but I'd expect less idle current
> > in a grid bias regulator.).
>
> > If this is a major redesign you might want to use a solid state series
> > pass regulator (e.g. TL783 or the like) and probably get rid of that
> > old wirewound pot in the bias circuit.
>
> > 0A3's are not unobtanium, rare, or expensive. I kinda like seeing VR
> > tubes around the PA, nice purple/pink glow dims and brightens as I
> > key, and if they're not glowing then something's wrong.
>
> It draws about 30ma calculated by measuring the voltage drop across
> the series dropping resistor. Once in a while it arcs, I think. I
> tried another tube and that seemed to fix it for a while but it
> started up again. There is a posssibility this is not the problem but
> for now it seems most likely. If I can easily replace it with a zener
> string I could be more sure that it is or isnt the cause. Plan for now
> is to put 5 15V 1 watt zeners on a tube base I can plug into the
> existing socket and see what happens. If that is the cause I will
> readily invest in another tube because I think they look cool too.

During transmission (modulation peaks?) the VR tube glow intensity
will change and even shift pattern from one part of the tube to others
with some hysteresis. This is normal. Arcing is not normal. But note
that the glow and shadows might show some structure (kinda shadows and
shadow edges) shifting as the current through the VR tube changes and
maybe you suspect that is arcing?

Tim.

```
From -3052035886347875777
X-Google-Thread: fc2a5,5f3ea3024a25a837,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!h36g2000pro.googlegroups.com!not-for-
mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: RARE HOT SEX PHOTOS & VIDEOS
Date: Thu, 2 Jun 2011 09:51:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <530e73be-80b5-4aa9-a8b7-5a66d957345d@h36g2000pro.googlegroups.com>
NNTP-Posting-Host: 117.199.241.193
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1307033488 32405 127.0.0.1 (2 Jun 2011 16:51:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 2 Jun 2011 16:51:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h36g2000pro.googlegroups.com; posting-host=117.199.241.193;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.17)
 Gecko/20110420 Firefox/3.6.17,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4471

                    FOR GOOD STUDY MATERIAL
               http://studymaterialforu.blogspot.com

                FOR GOOD JOBS SITES TO YOU
                 http://goodjobssites.blogspot.com/

      FOR GOOD INFORMATION ABOUT INSURANCE
              http://goodinsuranceplan.blogspot.com/

                       FOR HOT PHOTO&VIDEOS
                     KATRINA KAIF IN BEAUTIFUL RED DRESS
http://southactresstou.blogspot.com/2011/05/katrina-kaif_22.html
                        GOOD LOOKING DEEPIKA PADUKONE
http://southactresstou.blogspot.com/2011/05/deepika-padukone_22.html
                  AISHWARYA RAI UNBELIVABLE PHOTO
http://southactresstou.blogspot.com/2011/05/aishwarya-rai.html
                       SEXY TAPSEE IN VEERA
http://southactresstou.blogspot.com/2011/05/tapsee.html
              KAJAL IN BEAUTIFUL BLACK SAREE
http://southactresstou.blogspot.com/2011/05/kajal-agarwal.html
```

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From -1019525863959455050
X-Google-Thread: fc2a5,28fba86b978018a6,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-16.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Killing an RF amp with high VSWR: Zl>Z0 vs. Zl<Z0?
Lines: 23
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6090
Message-ID: <PzTFp.16090$Ky6.5035@en-nntp-16.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Thu, 2 Jun 2011 14:49:33 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:4472
```

Something I've wondered for awhile now is this: Since you get the same VSWR with a load both higher than or lower than your "expected" load (we'll call this Z0, and the actual load Zl), either Zl/Z0 or Z0/Zl respectively, is one siutation more likely to kill an amp than the other?

When Zl>Z0, you tend to (ignoring phase effects here) end up with a higher voltage sitting on the finals than when Zl=Z0... but less current than the matched case. With Zl<Z0, it's typically lower voltage but higher current. Based on what I know from, e.g., power supply design, there's usually more of a margain from overvoltage than there is from overcurrent, in that you can often find parts that inherently withstand a 2:1 or better overvoltage margain with just a bit of extra cost, whereas overcurrent will tend to overheat the power devices and getting rid of, e.g., 2-4x as much heat (vs. matched case) can require significantly greater heatsinking which often isn't cheap.

In the extreme case, I'd expect that far more amps will blow when shorted than when open-circuited. But I don't really have much experience in this area... so... could anyone comment on what you tend to see in real designs? Perhaps also compare and contrast tube-based amp with solid-state ones?

Thanks you,

```
---Joel




From 2118640824635140043
X-Google-Thread: fc2a5,20801fc5ff9ab59d,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!usenet-
fr.net!de-l.enfer-du-nord.net!feeder2.enfer-du-nord.net!feeder.news-service.com!
cyclone02.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf01.ams.highwinds-media.com!newsfe14.ams2.POSTED!00000000!not-for-mail
From: "Chester Drorz" <chester@virgin.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: test
Lines: 3
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6090
X-RFC2646: Format=Flowed; Original
Message-ID: <_lUFp.39528$6K4.25150@newsfe14.ams2>
NNTP-Posting-Host: 86.15.200.53
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe14.ams2 1307054586 86.15.200.53 (Thu, 02 Jun 2011 22:43:06 UTC)
NNTP-Posting-Date: Thu, 02 Jun 2011 22:43:06 UTC
Organization: virginmedia.com
Date: Thu, 2 Jun 2011 23:41:59 +0100
Xref: g2news2.google.com rec.radio.amateur.homebrew:4770

...




From -1230251576744431993
X-Google-Thread: fc2a5,3e8770642166d67
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X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!dn9g2000vbb.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: vr tube replacement
Date: Thu, 2 Jun 2011 16:09:56 -0700 (PDT)
Organization: http://groups.google.com
Lines: 72
Message-ID: <292dd131-c1eb-41f8-9307-40ff5e8ec1a4@dn9g2000vbb.googlegroups.com>
References: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
 <3846a2b4-23a9-4610-91f9-0b279b8b39a8@a7g2000vby.googlegroups.com>
 <3bb46cee-f4bb-4280-96cf-3698cdcadb28@e26g2000vbz.googlegroups.com>
```

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<3beaeec2-6a1c-477f-875f-8770e1ba9b4f@g24g2000vbz.googlegroups.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1307056196 2154 127.0.0.1 (2 Jun 2011 23:09:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 2 Jun 2011 23:09:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: dn9g2000vbb.googlegroups.com; posting-host=155.178.4.18; posting-
account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLUHCNK
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
 Trident/4.0; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4771

On Jun 1, 2:54=A0pm, Tim Shoppa <sho...@trailing-edge.com> wrote:
> On May 29, 2:15=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
>
>
>
>
> > On May 29, 10:59=A0am, TimShoppa<sho...@trailing-edge.com> wrote:
>
> > > On May 29, 8:23=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
> > > > I want to replace the vr 0A3 tube used in the bias circuit of a 614=
6B
> > > > amp with a 75V zener string. Can I just directly replace the tube w=
ith
> > > > the diodes or =A0will I need to make other modifications to the cir=
cuit?
>
> > > > Jimmie
>
> > > Typical OA3 is idling with between 5 and 40mA of current flowing
> > > through it, so make sure the zener string can dissipate the power.
> > > (75V * 0.040A =3D 3 watts worst case, but I'd expect less idle curren=
t
> > > in a grid bias regulator.).
>
> > > If this is a major redesign you might want to use a solid state serie=
s
> > > pass regulator (e.g. TL783 or the like) and probably get rid of that
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> > > key, and if they're not glowing then something's wrong.
>
```

> > It draws about 30ma calculated by measuring the voltage drop across
> > the series dropping resistor. Once in a while it arcs, I think. I
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> > is to put 5 15V 1 watt zeners on a tube base I can plug into the
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> During transmission (modulation peaks?) the VR tube glow intensity
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> that the glow and shadows might show some structure (kinda shadows and
> shadow edges) shifting as the current through the VR tube changes and
> maybe you suspect that is arcing?
>
> Tim.- Hide quoted text -
>
> - Show quoted text -

I put a neon bulb across the dropping resistor, well across a piece of
the dropping resistor. I used a photo transistor to couple to my
counter. Over a 12 hour peiod I got 10 to 15 hits. With the Zeners in
place I havent had any.. First noticed the problem when the plate
current meter on my amp went from 0 to full scale just setting on the
bench. Bias supply is set up so unless the amp is keyed it has the
full -75V on the grids cutting the amp off when keyed it drops to
about -45. When I caught it on my storage scope it was about -18v. I
like the VR tubes too, now that I am more certain thats whats causing
the problem I dont mind ordering a couple more VR tubes. Before I
order new ones I am thinking of trying the same monitoring setup again
with the tube in place but this time changing the bias adjust pot.
That would be the only thing I havent checked. I hate intermittent
problems like this.

Jimmie

```
From -2716805956170207300
X-Google-Thread: fc2a5,28fba86b978018a6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
213.200.89.82.MISMATCH!news1.as3257.net!draco.tiscalinet.it!news-f2.tiscali.it!
not-for-mail
Date: Sat, 04 Jun 2011 00:05:42 +0200
From: "i3hev, mario" <marioheld@tiscali.it>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, it
MIME-Version: 1.0
```

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Killing an RF amp with high VSWR: Zl>Z0 vs. Zl<Z0?
References: <PzTFp.16090$Ky6.5035@en-nntp-16.dc1.easynews.com>
In-Reply-To: <PzTFp.16090$Ky6.5035@en-nntp-16.dc1.easynews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 49
Message-ID: <4de95ab7$0$16648$5fc30a8@news.tiscali.it>
Organization: Tiscali SpA
NNTP-Posting-Host: 94.36.14.74
X-Trace: 1307138743 news.tiscali.it 16648 94.36.14.74:4484
X-Complaints-To: abuse@tiscali.it
Xref: g2news1.google.com rec.radio.amateur.homebrew:4475

Joel Koltner wrote:

> Something I've wondered for awhile now is this: Since you get the same VSWR with a load both higher than or lower than your "expected" load (we'll call this Z0, and the actual load Zl), either Zl/Z0 or Z0/Zl respectively, is one siutation more likely to kill an amp than the other? ...

A fairly tricky question :)

You are right that voltage margin is usually less expensive to obtain than current margin, but in RF devices this is not always true; e.g., the classic MRF316 can withstand 9 amps and 35 volts, for a nominal output (VHF) power of 80 W, and is guaranteed to survive a 30:1 mismatch (with any phase angle), but other transistors are less tolerant - e.g. the widely known MRF455 is rated for 18V (only) and 15A for a 60W power (HF).

But the main question is that the output matching network transforms load impedances in a way not easy for the final user to predict, so a short on output may appear to the device as something very different, whilst a reactive load could well appear like a short or open circuit or something like that. Adding to this the transformation of load impedance caused by the transmission line, we can hardly know the difference between the effects of a load impedance and those of another - and this is why the specifications are usually given in terms of generic mismatch.

As for the difference in behaviour between solid state and tube amps, the latter are notoriously more tolerant because failures in tubes are usually rather "slow" (causes are mainly overheating, but also evaporation of electrodes due to excessive current or disruptive discharge due to overvoltage, and each of these causes requires a certain amount of time to reach "final damage"), while the fusion of a part of a semiconductor device (due to excessive current or power dissipation, or formation of hot spots) or the disruptive discharge in a junction (usually due to avalanche effect) are very fast phenomena, which kill the device in very little time, or even in almost no time at all... but all this is true at more or less any working frequency, not only in RF.

```
Hoping to have shed some little light... :)
--
73 es 51 de i3hev, op. mario

Non � Radioamatore, se non gli fuma il saldatore!
- Campagna 2006 "Il Radioamatore non � uno che ascolta la radio"

it.hobby.radioamatori.moderato
http://digilander.libero.it/hamweb
http://digilander.libero.it/esperantovenezia



From 1769598454308443527
X-Google-Thread: fc2a5,2371b2f87f9d7d31,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!17g2000prr.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SEXY VIDEOS YOU MUST SEE MASALA HOT PHOTOS
Date: Fri, 3 Jun 2011 18:02:42 -0700 (PDT)
Organization: http://groups.google.com
Lines: 34
Message-ID: <093a4dfa-e450-45d7-821e-e75c78fc510c@17g2000prr.googlegroups.com>
NNTP-Posting-Host: 117.199.242.11
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1307149363 8980 127.0.0.1 (4 Jun 2011 01:02:43 GMT)
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NNTP-Posting-Date: Sat, 4 Jun 2011 01:02:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 17g2000prr.googlegroups.com; posting-host=117.199.242.11; posting-
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X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.17)
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Xref: g2news2.google.com rec.radio.amateur.homebrew:4773

        HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
```

http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

```
From -9336466729047597O1
X-Google-Thread: fc2a5,c4de3619e36cf8a0,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!f31g2000pri.googlegroups.com!not-for-mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT FOR TENAGERS
Date: Sat, 4 Jun 2011 06:59:24 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <cfe24e0a-8ec0-4230-9a81-84ee181dcd86@f31g2000pri.googlegroups.com>
NNTP-Posting-Host: 117.199.244.36
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1307195964 13809 127.0.0.1 (4 Jun 2011 13:59:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 4 Jun 2011 13:59:24 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f31g2000pri.googlegroups.com; posting-host=117.199.244.36;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
```

```
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.17)
 Gecko/20110420 Firefox/3.6.17,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4477

                    FOR GOOD STUDY MATERIAL
               http://studymaterialforu.blogspot.com

                FOR GOOD JOBS SITES TO YOU
                 http://goodjobssites.blogspot.com/

      FOR GOOD INFORMATION ABOUT INSURANCE
              http://goodinsuranceplan.blogspot.com/

                       FOR HOT PHOTO&VIDEOS
                     KATRINA KAIF IN BEAUTIFUL RED DRESS
http://southactresstou.blogspot.com/2011/05/katrina-kaif_22.html
                        GOOD LOOKING DEEPIKA PADUKONE
http://southactresstou.blogspot.com/2011/05/deepika-padukone_22.html
                  AISHWARYA RAI UNBELIVABLE PHOTO
http://southactresstou.blogspot.com/2011/05/aishwarya-rai.html
                       SEXY TAPSEE IN VEERA
http://southactresstou.blogspot.com/2011/05/tapsee.html
              KAJAL IN BEAUTIFUL BLACK SAREE
http://southactresstou.blogspot.com/2011/05/kajal-agarwal.html




From 957233553254842090
X-Google-Thread: fc2a5,3e8770642166d67
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!32g2000vbe.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: vr tube replacement
Date: Sat, 4 Jun 2011 13:11:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <c77ae515-d4cc-4bd3-808b-a4e74494af4a@32g2000vbe.googlegroups.com>
References: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
NNTP-Posting-Host: 71.68.19.231
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1307218269 6491 127.0.0.1 (4 Jun 2011 20:11:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 4 Jun 2011 20:11:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 32g2000vbe.googlegroups.com; posting-host=71.68.19.231; posting-
account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
```

```
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:2.0.1) Gecko/20100101 Firefox/
4.0.1,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4478

On May 29, 8:23=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> I want to replace the vr 0A3 tube used in the bias circuit of a 6146B
> amp with a 75V zener string. Can I just directly replace the tube with
> the diodes or =A0will I need to make other modifications to the circuit?
>
> Jimmie

Thanks all, problem turned out not to be the tube. still not
absolutely sure but  it was either the bias pot or a cap. I'm fairly
certain I changed out the cap about a year ago so best guess is the
pot. What I am thinking was happening is the pot was opening up
sending its share of the current through the tube overloading it with
about 90 ma of current causing the tube to arc. Should have just
shotgunned the circuit from the beginning.

Jimmie



From -2935039451850156448
X-Google-Thread: fc2a5,3e8770642166d67
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!g12g2000yqd.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: vr tube replacement
Date: Sat, 4 Jun 2011 19:07:11 -0700 (PDT)
Organization: http://groups.google.com
Lines: 29
Message-ID: <95d7dc04-c90e-4f73-b2cf-06c4e11fcbbe@g12g2000yqd.googlegroups.com>
References: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
 <c77ae515-d4cc-4bd3-808b-a4e74494af4a@32g2000vbe.googlegroups.com>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1307239631 26009 127.0.0.1 (5 Jun 2011 02:07:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 5 Jun 2011 02:07:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g12g2000yqd.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-Google-Web-Client: true
```

X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.19)
 Gecko/20110420 SeaMonkey/2.0.14,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4479

On Jun 4, 4:11=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> On May 29, 8:23=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
> > I want to replace the vr 0A3 tube used in the bias circuit of a 6146B
> > amp with a 75V zener string. Can I just directly replace the tube with
> > the diodes or =A0will I need to make other modifications to the circuit=
?
>
> > Jimmie
>
> Thanks all, problem turned out not to be the tube. still not
> absolutely sure but =A0it was either the bias pot or a cap. I'm fairly
> certain I changed out the cap about a year ago so best guess is the
> pot. What I am thinking was happening is the pot was opening up
> sending its share of the current through the tube overloading it with
> about 90 ma of current causing the tube to arc. Should have just
> shotgunned the circuit from the beginning.
>
> Jimmie

hey OM

The dead give away should have been the series resistor to that OA3
heating up big time since P=3DI^2R the current doubled, the power
quadrupled that resistor would have could have let its' smoke out.

73 OT
de n8zu

From -5435872785327158396
X-Google-Thread: fc2a5,28fba86b978018a6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!r33g2000prh.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Killing an RF amp with high VSWR: Zl>Z0 vs. Zl<Z0?
Date: Sat, 4 Jun 2011 20:41:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 55
Message-ID: <506c3d6d-a391-44de-9cd6-19f597c9182b@r33g2000prh.googlegroups.com>
References: <PzTFp.16090$Ky6.5035@en-nntp-16.dc1.easynews.com>
NNTP-Posting-Host: 50.46.189.195
Mime-Version: 1.0

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Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1307245309 13844 127.0.0.1 (5 Jun 2011 03:41:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 5 Jun 2011 03:41:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r33g2000prh.googlegroups.com; posting-host=50.46.189.195; posting-
account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:2.0.1) Gecko/20100101 Firefox/
4.0.1,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4480

On Jun 2, 2:49=A0pm, "Joel Koltner" <zapwireDASHgro...@yahoo.com> wrote:
> Something I've wondered for awhile now is this: Since you get the same VS=
WR
> with a load both higher than or lower than your "expected" load (we'll ca=
ll
> this Z0, and the actual load Zl), either Zl/Z0 or Z0/Zl respectively, is =
one
> siutation more likely to kill an amp than the other?
>
> When Zl>Z0, you tend to (ignoring phase effects here) end up with a highe=
r
> voltage sitting on the finals than when Zl=3DZ0... but less current than =
the
> matched case. =A0With Zl<Z0, it's typically lower voltage but higher curr=
ent.
> Based on what I know from, e.g., power supply design, there's usually mor=
e of
> a margain from overvoltage than there is from overcurrent, in that you ca=
n
> often find parts that inherently withstand a 2:1 or better overvoltage ma=
rgain
> with just a bit of extra cost, whereas overcurrent will tend to overheat =
the
> power devices and getting rid of, e.g., 2-4x as much heat (vs. matched ca=
se)
> can require significantly greater heatsinking which often isn't cheap.
>
> In the extreme case, I'd expect that far more amps will blow when shorted=
 than
> when open-circuited. =A0But I don't really have much experience in this a=
rea...
> so... could anyone comment on what you tend to see in real designs? =A0Pe=
rhaps
> also compare and contrast tube-based amp with solid-state ones?
>
> Thanks you,
> ---Joel
```

Mario is right...it's a pretty tricky question, or at least it's tricky to answer accurately!

I fully agree with him that it's difficult to know what impedance will be reflected by any particular load, when viewed at the plates/collectors/drains of the output devices.

Something else to consider: generally too much current (by only a little, anyway) will cause heating, but it may take many milliseconds or seconds for the heat to build up to the point of being dangerous. On the other hand, when you get enough voltage to cause problems, the problem is quite often instantaneous: within a microsecond or so. Poof. Automatic protection circuits have a bit easier time handling excess power (current; heat) than they do excess voltage.

Cheers,
Tom

```
From 6712013632376246508
X-Google-Thread: fcc6e,c4c196187f8bc09c
X-Google-NewGroupId: yes
X-Google-Thread: 108122,c4c196187f8bc09c
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c4c196187f8bc09c
X-Google-NewGroupId: yes
X-Google-Thread: f64c6,c4c196187f8bc09c
X-Google-NewGroupId: yes
X-Google-Thread: ffcae,c4c196187f8bc09c
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gidd7f5508063,gid241b302a50,gid82c01338ff,gidf67993a6ef,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 05 Jun 2011 02:10:36 -0500
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,uk.radio.amateur,uk.tech.broadcast
Subject: Re: Why do WiFi basestations use two antennas?
From: moronsbegone <NoThanx@never.org>
References: <ck37fb$76u$1@uns-a.ucl.ac.uk>
<5okam0d8i2qh7emsfa6dbdg7oqca17m4cu@4ax.com>
Organization: Private
Message-ID: <Xns9EFB162A13C22notnowneverorg@127.0.0.1>
Followup-To: rec.radio.amateur.antenna
User-Agent: Xnews/5.04.25
Date: Sun, 05 Jun 2011 02:10:36 -0500
Lines: 14
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
```

```
yFdXGrIBvBQ7hAX2q0umwOKOmBV0kHNK0a7ioyeW1z2ifXIqsrjP9j7pDyjWuJfptQXzLeUjX4rtqVk!
xj7iTTxmmVw1UeXA1XDjgnJ6nqSIJTyiZTkozjgvqIiZn81p3tqOEuA3cNFkYJX/hAewxw==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1633
Xref: g2news1.google.com rec.radio.amateur.antenna:21664
rec.radio.amateur.equipment:2617 rec.radio.amateur.homebrew:4481
uk.radio.amateur:145374 uk.tech.broadcast:27289

Paul Burridge <pb@notthisbit.osiris1.co.uk> wrote in
news:5okam0d8i2qh7emsfa6dbdg7oqca17m4cu@4ax.com:

> On Thu, 7 Oct 2004 12:00:52 +0100, "Daniel Kelly \(AKA
> Jack\)" <d.kellyNOSPAM@NOSPAM.ucl.ac.uk> wrote:
>
>>A little more info about my system:
>>The system is part of a wearable camera with recorder.  The
>>camera, transmitter, microphone and a battery are all worn
>>in a hat.
>
> A hat?? What kind of a weirdo are you?

Could be a decoy or cop,mountain biker or sports related.


From 4041610751048669274
X-Google-Thread: fcc6e,c4c196187f8bc09c
X-Google-NewGroupId: yes
X-Google-Thread: 108122,c4c196187f8bc09c
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c4c196187f8bc09c
X-Google-NewGroupId: yes
X-Google-Thread: f64c6,c4c196187f8bc09c
X-Google-NewGroupId: yes
X-Google-Thread: ffcae,c4c196187f8bc09c
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gidd7f5508063,gid241b302a50,gid82c01338ff,gidf67993a6ef,domainid0,pu
blic,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 05 Jun 2011 02:19:52 -0500
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,u
k.radio.amateur,uk.tech.broadcast
Subject: Re: Why do WiFi basestations use two antennas?
From: moronsbegone <NoThanx@never.org>
```

```
References: <ck37fb$76u$1@uns-a.ucl.ac.uk>
<5okam0d8i2qh7emsfa6dbdg7oqca17m4cu@4ax.com>
<416554bb$0$94919$5a6aecb4@news.aaisp.net.uk> <ck3kji$l2a$1@uns-a.ucl.ac.uk>
<41655d88$0$94921$5a6aecb4@news.aaisp.net.uk> <h6GdnQAMR_jTE_vcRVn-rQ@comcast.com>
<epsfm0lgccv6r3uvpg9opsu8mqoe9pb8re@4ax.com>
<4l1gm09pebulm1ncn516qr89affq4qdhvr@4ax.com> <ck9pu6$47o$1@titan.btinternet.com>
Organization: Private
Message-ID: <Xns9EFB17BC549E4notnowneverorg@127.0.0.1>
Followup-To: rec.radio.amateur.antenna
User-Agent: Xnews/5.04.25
Date: Sun, 05 Jun 2011 02:19:52 -0500
Lines: 29
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Rzag5P3csLgW6GEGmGc5rsRZS3dwd2Nu/
lg2Jd3ZLzFf7SfDlk1xIUguh8ra5FHvWLy35IW8g96O+6e!
Ck1WaQYkoFXG7iiCSreLssOZbgTngMEaOiv3WPovTeX/CGzLkf3V341RSB2qunQEI8b56w==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2436
Xref: g2news1.google.com rec.radio.amateur.antenna:21665
rec.radio.amateur.equipment:2618 rec.radio.amateur.homebrew:4482
uk.radio.amateur:145375 uk.tech.broadcast:27290

"Reg Edwards" <g4fgq.regp@ZZZbtinternet.com> wrote in
news:ck9pu6$47o$1@titan.btinternet.com:

>> >Hams at UK rallies typically tend to smell rather badly,
>> >too. And look like child molesters. Is this a world-wide
>> >phenomenon or a purely British one?
>>
>> Must be purely British as no other country seems to have
>> the paranoia we seem to have about child molesters.
>>
> ==================================
>
> All physical contact and association between people of all
> ages is fundamentally sexual in nature.  It's for the
> propagation of our species. Otherwise there is no genetical
> reason for contact.  It's all built into our genes.
>
>
>

CONFUSED; The reason for desire to contact is hiding in our
jeans ,,,the ones we are wearing,,,,isn't it?


Paranoya America,,,,,,,,,,,,,,,,,pethetic..................
```

My wife sued me for sexual harrasment,,,,,,,,,,,,,,,,I kissed
her on the cheek. Old Fat Homely thats me.
Woopie is sort of like shooting pool with a rope.

```
From 2130457524666308798
X-Google-Thread: fc2a5,3e8770642166d67
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!feeder.news-
service.com!85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: vr tube replacement
Date: Sun, 05 Jun 2011 12:16:34 -0400
Organization: A noiseless patient Spider
Lines: 15
Message-ID: <isga52$ru3$1@dont-email.me>
References: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
<c77ae515-d4cc-4bd3-808b-a4e74494af4a@32g2000vbe.googlegroups.com> <95d7dc04-
c90e-4f73-b2cf-06c4e11fcbbe@g12g2000yqd.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sun, 5 Jun 2011 16:16:34 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="wp8pcMUXN6+4P8U7XOYZcA";
     logging-data="28611"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+lesf+mdoQQSvVOuYtam1voGx2cJxXj3w="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.17) Gecko/20110424
Thunderbird/3.1.10
In-Reply-To: <95d7dc04-c90e-4f73-b2cf-06c4e11fcbbe@g12g2000yqd.googlegroups.com>
Cancel-Lock: sha1:CEX9JKX9XxbopPQVr5L1RM7uEV8=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4483
```

On 06/04/2011 10:07 PM, raypsi wrote:

> hey OM
>
> The dead give away should have been the series resistor to that OA3
> heating up big time since P=I^2R the current doubled, the power
> quadrupled that resistor would have could have let its' smoke out.
>
> 73 OT
> de n8zu

Unless the original designer was paranoid enough to use an over sized resistor in the first place. Back when I first started out in ham radio building with tubes I was guilty of using a 50W resistor in a 5-10 watt circuit. (half because I got the 50W part cheap and half because I knew that I didn't quite know what I was doing and wanted to be safe).

```
From -4724100097842504870
X-Google-Thread: fc2a5,28fba86b978018a6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news-
in-02.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-07.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <PzTFp.16090$Ky6.5035@en-nntp-16.dc1.easynews.com>
<4de95ab7$0$16648$5fc30a8@news.tiscali.it>
Subject: Re: Killing an RF amp with high VSWR: Zl>Z0 vs. Zl<Z0?
Lines: 2
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6090
Message-ID: <wveHp.24000$AU4.21653@en-nntp-07.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Mon, 6 Jun 2011 17:44:10 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:4781

Thanks Mario, that's quite insightful!



From 1394697035068758631
X-Google-Thread: fcc6e,ceecc20e9ee930e4,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,ceecc20e9ee930e4,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,ceecc20e9ee930e4,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,ceecc20e9ee930e4,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,ceecc20e9ee930e4,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,ceecc20e9ee930e4,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,ceecc20e9ee930e4,start
X-Google-NewGroupId: yes
X-Google-Attributes:
```

```
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf
6,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
news-out.readnews.com!transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1304748300@panix.com>
Followup-To: poster
Date: 7 Jun 2011 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 10 Jul 2011 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1307426700@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1307426703 29632 166.84.1.2 (7 Jun 2011 06:05:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 7 Jun 2011 06:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news2.google.com rec.radio.amateur.antenna:23458 rec.radio.amateur.dx:1046
rec.radio.amateur.equipment:2836 rec.radio.amateur.homebrew:4782
rec.radio.amateur.misc:6525 rec.radio.amateur.policy:33636 rec.radio.info:2484

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/
```

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT

```
 Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article       |
is that it does not mention newer amateur radio newsgroups created since      |
it was written, including:                                                    |

 rec.radio.amateur.antenna                                                    |
 rec.radio.amateur.boatanchors                                                |
 rec.radio.amateur.dx                                                         |
 rec.radio.amateur.equipment                                                  |
 rec.radio.amateur.homebrew                                                   |
 rec.radio.amateur.moderated                                                  |
 rec.radio.amateur.space                                                      |

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions.  We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.




From 3913284293487982093
X-Google-Thread: fc2a5,3e8770642166d67
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!z33g2000yqb.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: vr tube replacement
Date: Tue, 7 Jun 2011 23:38:47 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <823f1b9a-da90-4366-9778-a5eada4ed953@z33g2000yqb.googlegroups.com>
References: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
 <c77ae515-d4cc-4bd3-808b-a4e74494af4a@32g2000vbe.googlegroups.com>
 <95d7dc04-c90e-4f73-b2cf-06c4e11fcbbe@g12g2000yqd.googlegroups.com>
<isga52$ru3$1@dont-email.me>
NNTP-Posting-Host: 71.68.19.231
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
```

```
X-Trace: posting.google.com 1307515127 6671 127.0.0.1 (8 Jun 2011 06:38:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 8 Jun 2011 06:38:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z33g2000yqb.googlegroups.com; posting-host=71.68.19.231; posting-
account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:2.0.1) Gecko/20100101 Firefox/
4.0.1,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4486

On Jun 5, 12:16=A0pm, Kenneth Scharf <wa2...@bellsouth.net> wrote:
> On 06/04/2011 10:07 PM, raypsi wrote:
>
> > hey OM
>
> > The dead give away should have been =A0the series resistor to that OA3
> > heating up big time since P=3DI^2R the current doubled, the power
> > quadrupled that resistor would have could have let its' smoke =A0out.
>
> > 73 OT
> > de n8zu
>
> Unless the original designer was paranoid enough to use an over sized
> resistor in the first place. =A0Back when I first started out in ham radi=
o
> building with tubes I was guilty of using a 50W resistor in a 5-10 watt
> circuit. =A0(half because I got the 50W part cheap and half because I kne=
w
> that I didn't quite know what I was doing and wanted to be safe).

In my case problem was only momentary, maybe a second  sometimes going
days without doing it sometimes 3 or 4 times in a couple of minutes.
For a long time I was convinced it was in the amp instead of the power
supply because I once disconnected the power supply from the amp and
it ran continuously for a few weeks without failing. This turned out
to be just bad luck. Fortunately I am on the air about as sporadically
as the amp was failing. There is no telling how many times it failed
while I was using it and I just didn't notice.


Jimmie



From -7258014130410554503
X-Google-Thread: fc2a5,74df323aaa569ab7,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!h36g2000pro.googlegroups.com!not-for-
mail
```

From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: RFSim99 anomaly
Date: Wed, 8 Jun 2011 13:12:47 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <ec14d75e-864b-4645-bddd-51fb42c4b750@h36g2000pro.googlegroups.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1307563968 14344 127.0.0.1 (8 Jun 2011 20:12:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 8 Jun 2011 20:12:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h36g2000pro.googlegroups.com; posting-host=192.25.240.225;
posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESRCNK
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.17)
 Gecko/20110420 Firefox/3.6.17,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4487

Hi all,

I use RFSim99 pretty often, and appreciate all it does. I've come across a few "strangenesses" in the past, and just found a new one to add to the list:

In the RF Calculator Resonance/Reactance tool, enter 10MHz and 50pF. The resonating inductance is correctly shown as 5.066uH. Now change the capacitance to 50nF; you'd expect the inductance to show as 5.066nH, but it shows instead as 5.061nH. Change the capacitance to 50uF and the inductance shows as 5.066pH as expected. This isn't a big error, but it's a little puzzling that it's there at all. I discovered it when calculating values for a very narrow LC filter near 10MHz; I'm not sure if the error is worse than this at some points or not. This particular error seems to be only in the calculator, not in the simulator.

Cheers,
Tom

From 6776396957678030779
X-Google-Thread: fc2a5,6179cff688cdaacc,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!x38g2000pri.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew

Subject: BEST 10 HOT SEXY VIDEOS AND MASALA KISS PHOTOS
Date: Wed, 8 Jun 2011 23:40:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 34
Message-ID: <b81225c9-6262-4ae1-b620-5abb3bb51e9c@x38g2000pri.googlegroups.com>
NNTP-Posting-Host: 117.213.130.108
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1307601782 13151 127.0.0.1 (9 Jun 2011 06:43:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 9 Jun 2011 06:43:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x38g2000pri.googlegroups.com; posting-host=117.213.130.108; posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.17) Gecko/20110420 Firefox/3.6.17,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4785

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions

http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

```
From 2314858361470025800
X-Google-Thread: fc2a5,74df323aaa569ab7
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!goblin1!goblin2!goblin.stu.neva.ru!
newsfeed.sovam.com!feeder.erje.net!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: somebody <someone@somewhere.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RFSim99 anomaly
Date: Thu, 09 Jun 2011 05:10:49 -0400
Organization: A noiseless patient Spider
Lines: 23
Message-ID: <vf31v6lil8vk5h3v3029qgnf6nlooli17u@4ax.com>
References: <ec14d75e-864b-4645-bddd-51fb42c4b750@h36g2000pro.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Injection-Info: mx04.eternal-september.org; posting-host="Y4EIM4OnxQHRKeOmC29iVw";
     logging-data="21175"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19GnUX6qjQqZZ3j5tqJakOH"
X-Antivirus-Status: Clean
X-Newsreader: Forte Agent 3.0/32.763
X-Antivirus: avast! (VPS 110608-1, 06/08/2011), Outbound message
Cancel-Lock: sha1:Cy+onEsPekzgvyM/Gjvm17bsYns=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4489

On Wed, 8 Jun 2011 13:12:47 -0700 (PDT), K7ITM <k7itm@msn.com> wrote:

>Hi all,
>
>I use RFSim99 pretty often, and appreciate all it does.  I've come
>across a few "strangenesses" in the past, and just found a new one to
>add to the list:
>
>In the RF Calculator Resonance/Reactance tool, enter 10MHz and 50pF.
>The resonating inductance is correctly shown as 5.066uH.  Now change
>the capacitance to 50nF; you'd expect the inductance to show as
>5.066nH, but it shows instead as 5.061nH.  Change the capacitance to
>50uF and the inductance shows as 5.066pH as expected.  This isn't a
>big error, but it's a little puzzling that it's there at all.  I
>discovered it when calculating values for a very narrow LC filter near
>10MHz; I'm not sure if the error is worse than this at some points or
>not.  This particular error seems to be only in the calculator, not in
>the simulator.
>
```

>Cheers,
>Tom

Artifacts of floating point arithmetic?

```
From -2144967658978286078
X-Google-Thread: fc2a5,97f4ede1d03a43cc,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j13g2000pro.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SEXY VIDEOS AND HOT 2011PHOTOS FREE
Date: Fri, 10 Jun 2011 17:56:34 -0700 (PDT)
Organization: http://groups.google.com
Lines: 38
Message-ID: <59931cd2-79ab-4db6-9455-591ff22bc5e6@j13g2000pro.googlegroups.com>
NNTP-Posting-Host: 117.199.243.95
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1307753794 31894 127.0.0.1 (11 Jun 2011 00:56:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 11 Jun 2011 00:56:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j13g2000pro.googlegroups.com; posting-host=117.199.243.95;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.17)
 Gecko/20110420 Firefox/3.6.17,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4787
```

for hot videos
http://verysexyhotvideos.blogspot.com/

hot lip kiss videos
http://allvideosforyouth.blogspot.com/2010/08/hot-lip-kiss-videos.html

super hot lip kiss
http://allvideosforyouth.blogspot.com/2010/08/super-hot-lip-kiss.html

jobs
http://alljobsaywhere.blogspot.com/

games

GAME 1

http://freeonlingamesplay.blogspot.com/2010/08/game-1.html

GAME 2

http://freeonlingamesplay.blogspot.com/2010/08/game-2.html

mobile

mobile games free download

http://mobileallinforation.blogspot.com/2010/08/mobile-games-free-download.html

mobile ringtones free download

http://mobileallinforation.blogspot.com/2010/08/mobile-ringtones-free-download.html

```
From 6567187354208658257
X-Google-Thread: fc2a5,7a894b72465330d2,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d26g2000prn.googlegroups.com!not-for-mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: `HOT SEXY PHOTOS&VIDEOS****
Date: Sun, 12 Jun 2011 07:15:01 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <c1c9b4d5-c1ef-47d4-bc1d-e6462ad000ad@d26g2000prn.googlegroups.com>
NNTP-Posting-Host: 117.199.242.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1307888228 3237 127.0.0.1 (12 Jun 2011 14:17:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 12 Jun 2011 14:17:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d26g2000prn.googlegroups.com; posting-host=117.199.242.5; posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.17)
 Gecko/20110420 Firefox/3.6.17,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4491
```

FOR GOOD STUDY MATERIAL
http://studymaterialforu.blogspot.com

FOR GOOD JOBS SITES TO YOU
http://goodjobssites.blogspot.com/

FOR HOT PHOTO&VIDEOS
KATRINA KAIF IN BEAUTIFUL RED DRESS
http://southactresstou.blogspot.com/2011/05/katrina-kaif_22.html
GOOD LOOKING DEEPIKA PADUKONE
http://southactresstou.blogspot.com/2011/05/deepika-padukone_22.html
AISHWARYA RAI UNBELIVABLE PHOTO
http://southactresstou.blogspot.com/2011/05/aishwarya-rai.html
SEXY TAPSEE IN VEERA
http://southactresstou.blogspot.com/2011/05/tapsee.html
KAJAL IN BEAUTIFUL BLACK SAREE
http://southactresstou.blogspot.com/2011/05/kajal-agarwal.html

```
From -5946011720273108163
X-Google-Thread: fc2a5,28fba86b978018a6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!j9g2000vbs.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Killing an RF amp with high VSWR: Zl>Z0 vs. Zl<Z0?
Date: Mon, 13 Jun 2011 13:44:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 58
Message-ID: <b16490d1-9837-4b0e-a45f-d0e92e0321fd@j9g2000vbs.googlegroups.com>
References: <PzTFp.16090$Ky6.5035@en-nntp-16.dc1.easynews.com>
NNTP-Posting-Host: 170.121.14.11
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1307997889 22672 127.0.0.1 (13 Jun 2011 20:44:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 13 Jun 2011 20:44:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j9g2000vbs.googlegroups.com; posting-host=170.121.14.11; posting-
account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HNKRUAELSC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1) AppleWebKit/534.30 (KHTML, like
 Gecko) Chrome/12.0.742.91 Safari/534.30,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4492
```

On Jun 2, 5:49=A0pm, "Joel Koltner" <zapwireDASHgro...@yahoo.com> wrote:
> Something I've wondered for awhile now is this: Since you get the same VS=
WR
> with a load both higher than or lower than your "expected" load (we'll ca=
ll
> this Z0, and the actual load Zl), either Zl/Z0 or Z0/Zl respectively, is =
one
> siutation more likely to kill an amp than the other?
>
> When Zl>Z0, you tend to (ignoring phase effects here) end up with a highe=
r
> voltage sitting on the finals than when Zl=3DZ0... but less current than =
the
> matched case. =A0With Zl<Z0, it's typically lower voltage but higher curr=
ent.
> Based on what I know from, e.g., power supply design, there's usually mor=
e of
> a margain from overvoltage than there is from overcurrent, in that you ca=
n
> often find parts that inherently withstand a 2:1 or better overvoltage ma=
rgain
> with just a bit of extra cost, whereas overcurrent will tend to overheat =
the
> power devices and getting rid of, e.g., 2-4x as much heat (vs. matched ca=
se)
> can require significantly greater heatsinking which often isn't cheap.
>
> In the extreme case, I'd expect that far more amps will blow when shorted=
 than
> when open-circuited. =A0But I don't really have much experience in this a=
rea...
> so... could anyone comment on what you tend to see in real designs? =A0Pe=
rhaps
> also compare and contrast tube-based amp with solid-state ones?

Many simplest solid-state amps "SWR protection" circuitry is in fact "overvoltage protection" circuitry (e.g. Zl>Z0).

The output transformer and low-pass network can also be seriously overstressed when Zl<Z0.

For a while, thermal runaway was a big problem with bipolar continuous duty (especially FM) amps when Zl<Z0. Today most solid-state amps (even if not bipolar) have overtemp and overcurrent protection as a belt-and-suspenders on top of temperature-dependent bias. Overtemp by itself won't stop the worst transformed loads but with overcurrent protection the past couple generations of HF finals aren't so easy to kill.

BTW... my Ten Tec Triton IV (1976 vintage) still has the original final transistors.

For a lot of medium-power homebrew gear the cost of any final protection is more than the cost of the finals. Witness the many IRF510 amps. For a while on my bench I was burning through IRF510's like they were goin out of style :-)

Tim N3QE

```
From 3642151608456640850
X-Google-Thread: 241b302a50,6d6b18ce31bd98f,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d26g2000prn.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT HOT VIDEOS PHOTOS SXY PEOPLE
Date: Fri, 17 Jun 2011 17:47:42 -0700 (PDT)
Organization: http://groups.google.com
Lines: 42
Message-ID: <5a171a6b-7130-4fe2-bc8b-1eb8f022057d@d26g2000prn.googlegroups.com>
NNTP-Posting-Host: 117.199.243.103
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1308358063 8509 127.0.0.1 (18 Jun 2011 00:47:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 18 Jun 2011 00:47:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d26g2000prn.googlegroups.com; posting-host=117.199.243.103;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.17)
 Gecko/20110420 Firefox/3.6.17,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4493
```

HOT HOT LIP KISS
http://hotvideosfreesee.blogspot.com/2010/06/hot-for-youth.html
SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.com/2010/06/hot-101.html
YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.com/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.com/2010/06/supr-hot-never-seen.html
SUPER HOT NEVER SEEN
http://hotvideosfreesee.blogspot.com/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.com/2010/06/kajal-best-lip-kiss.html

for mopre hot videos

http://allvideosforyouth.blogspot.com/2010/08/super-hot-lip-kiss.html

jobs
http://alljobsaywhere.blogspot.com/

games

GAME 1
http://freeonlingamesplay.blogspot.com/2010/08/game-1.html
GAME 2
http://freeonlingamesplay.blogspot.com/2010/08/game-2.html

mobile

mobile games free download
http://mobileallinforation.blogspot.com/2010/08/mobile-games-free-download.html

mobile ringtones free download
http://mobileallinforation.blogspot.com/2010/08/mobile-ringtones-free-download.html

From -7884468029217854483
X-Google-Thread: 241b302a50,460c26ca2e86ccb,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
newsfeed.neostrada.pl!unt-exc-01.news.neostrada.pl!unt-spo-a-01.news.neostrada.pl!
news.neostrada.pl.POSTED!not-for-mail
Date: Sun, 19 Jun 2011 19:17:25 +0200
From: Atlantis <nospam@nospam.pl>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; pl; rv:1.8) Gecko/20051201
Thunderbird/1.5 Mnenhy/0.7.3.0
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: vintage "Radio News" by Hugo Gernsback
Content-Type: text/plain; charset=ISO-8859-2
Content-Transfer-Encoding: 7bit
Lines: 5
Message-ID: <4dfe2eef$0$2490$65785112@news.neostrada.pl>
Organization: Telekomunikacja Polska
NNTP-Posting-Host: 83.10.130.142
X-Trace: 1308503791 unt-rea-a-02.news.neostrada.pl 2490 83.10.130.142:19645

```
X-Complaints-To: abuse@news.neostrada.pl
Xref: g2news1.google.com rec.radio.amateur.homebrew:4494
```

I am looking for archival issues of vintage magazine "Radio News"
published by Hugo Gernsback back in 20s. Especially the one from
December of 1925. Is there any digital library offering access to this
materials? Or maybe somebody digitalized own collection and uploaded it
somewhere? I will be very grateful for any piece of information. :)

```
From 6174064081671520278
X-Google-Thread: 241b302a50,460c26ca2e86ccb
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 20 Jun 2011 06:29:13 -0500
From: "news.giganews.com" <gzimmer@wideband.net.au>
Newsgroups: rec.radio.amateur.homebrew
References: <4dfe2eef$0$2490$65785112@news.neostrada.pl>
Subject: Re: vintage "Radio News" by Hugo Gernsback
Date: Mon, 20 Jun 2011 18:30:22 +0700
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6109
X-RFC2646: Format=Flowed; Original
Message-ID: <5tydnSviA_mUsmLQnZ2dnUVZ_o-dnZ2d@giganews.com>
Lines: 11
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
QiiNs4eNZyQGTmfk0CmDH+pl31vSLY5w7ykcLn81w1OQDB71YxsKOy0c5eW+9Bhf54NPbjGIupYNdvm!
9uaWwhHszVCvfXlTm5b96CwKzyjHif7qi3/rERZKFRFFIvoLcx0VGJrUrFjsHk0BJJGUtwuQrUuY
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1430
Xref: g2news1.google.com rec.radio.amateur.homebrew:4495
```

>I am looking for archival issues of vintage magazine "Radio News"
> published by Hugo Gernsback back in 20s. Especially the one from
> December of 1925.

Here's the cover at least...
http://www.magazineart.org/main.php/v/technical/radionews/
RadioNews1925-12.jpg.html

.... Zim

From 3902313355737411046
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!j28g2000vbp.googlegroups.com!not-for-mail
From: spamhog <n1jpr@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: advice on cylindrical magnetic core for PTO with 1" micrometric drive
Date: Mon, 20 Jun 2011 11:09:52 -0700 (PDT)
Organization: http://groups.google.com
Lines: 56
Message-ID: <5d35e1b7-a117-4b9f-9dd9-d9ff02d6c74c@j28g2000vbp.googlegroups.com>
NNTP-Posting-Host: 93.33.80.245
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1308593392 4308 127.0.0.1 (20 Jun 2011 18:09:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 20 Jun 2011 18:09:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j28g2000vbp.googlegroups.com; posting-host=93.33.80.245; posting-account=tuTwjgoAAABgsw0HP7EbLMV3yMd8jh4C
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: UHALERCNK
X-HTTP-UserAgent: Opera/9.80 (X11; Linux i686; U; en) Presto/2.8.131 Version/11.11,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4496

warning - this is clearly crazy
** just for fun, so pls bear with me! **
** calls for sanity --> /dev/null :-D **

Hello everyone!

I am considering building a broad tuning range, high impedance HF tank circuit that could be used for several _old-fashioned_ things, like a regen receiver or an analog RF generator, with a pair of twists:
- PTO TUNING, as seen in many professional and ham radios, but with very limited tuning range and custom-made slow motion drives.
- a generic MICROMETRIC SCREW for tuning slow motion drive was, as I saw in one of Jiri Vackar's patents.

PTO HF TUNING
I envision using a moving magnetic core either for main tuning or for band setting. A designer of interesting hobby radios by the name of (Sir) Douglas Hall obtained extremely wide tuning ratios with PT coils and extremely small fine-tuning variables, in the order of 10pF,

without band-switching on HF, unattainable with variable capacitors. He also claimed better Q over the whole range. But his PT drive was really rough, only good enough for approximate band setting. It should be easy to do better.

MICROMETRIC SCREWS
Standard mechanical micrometers used for depth or thickness measurement contain a screw that moves a steel rod over a 25mm / 1 inch range. They typically have a resolution of 0.01mm using the venier scale. This implies repositioning to 1 part over 2500 over the full range. Other features are extremely smooth motion, very small backlash, and low price. I also have a thermostat that I could use to heat the whole mechanical arrangement and help stability....

QUESTION
Assuming that my favorite HF range is 3-15 MHz and that core travel will be 25mm or less, what core size and mix you propose for best Q and stability over a broad tuning range?

MY CURRENT CANDIDATE
Amidon cyl. core for HF PTOs R61-050-180
1.8" length x 1/2" diameter, material 61.
Excess length is necessary to keep linearity throughout the range.
I wish diameter was larger, closer to a roughly square length/diameter ratio, but that's what's available.

SECOND BEST (probably WAAAY SECOND)
A cylindrical RFI core. I can count many many reasons not to use one, but I wonder if I am grasping at straws.

Any comments?

Thank you in advance!

N1JPR

From 1336923591892201051
X-Google-Thread: 241b302a50,91e694c146d3c23
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!e21g2000vbz.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: advice on cylindrical magnetic core for PTO with 1" micrometric drive
Date: Mon, 20 Jun 2011 12:11:12 -0700 (PDT)
Organization: http://groups.google.com
Lines: 36
Message-ID: <dc99a9dd-b401-46f6-9ccf-07f7af1a96e2@e21g2000vbz.googlegroups.com>
References: <5d35e1b7-a117-4b9f-9dd9-d9ff02d6c74c@j28g2000vbp.googlegroups.com>
NNTP-Posting-Host: 170.121.14.11

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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1308597157 9382 127.0.0.1 (20 Jun 2011 19:12:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 20 Jun 2011 19:12:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e21g2000vbz.googlegroups.com; posting-host=170.121.14.11; posting-
account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HNKRUAELSC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1) AppleWebKit/534.30 (KHTML, like
 Gecko) Chrome/12.0.742.91 Safari/534.30,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4497
```

On Jun 20, 2:09=A0pm, spamhog <n1...@hotmail.com> wrote:

> MY CURRENT CANDIDATE
> Amidon cyl. core for HF PTOs R61-050-180
> 1.8" length x 1/2" diameter, material 61.
> Excess length is necessary to keep linearity throughout the range.
> I wish diameter was larger, closer to a roughly square length/diameter ratio, but that's what's available.
>
> SECOND BEST (probably WAAAY SECOND)
> A cylindrical RFI core. I can count many many reasons not to use one, but I wonder if I am grasping at straws.

I know you're going super gorilla on all this... but attacking this from the low end up: the KD1JV brass-screw-tuned PTO is very easy to realize and while not super duper stable, it's about as good as you can do for a couple bucks. He has examples of covering 5.0 to 5.5 MHz (75M SSB rig):

  http://kd1jv.qrpradio.com/ssbrig/SSB.HTM

and covering 3.0 to 2.95 or so MHz (40M CW rig):

  http://kd1jv.qrpradio.com/ARRLHBC/ARRL_MMR40.html

Unlike ferrite materials where putting the core in increases inductance, putting a brass slug into a coil reduces its inductance.

KD1JV's designs are supremely reproducible. He does not use unobtanium parts, that's for sure!

I have used these and while they are not awful temperature stable by themselves, with some compensation maybe they could be better.

Tim N3QE.

Tim.

From 4412718322660676693
X-Google-Thread: 241b302a50,460c26ca2e86ccb
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!feeder.erje.net!
news-2.dfn.de!news.dfn.de!news.uni-stuttgart.de!news.nask.pl!news.nask.org.pl!
news.icm.edu.pl!news.onet.pl!.POSTED!not-for-mail
From: Atlantis <marekw1986NOSPAM@wp.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: vintage "Radio News" by Hugo Gernsback
Date: Wed, 22 Jun 2011 08:13:35 +0200
Organization: http://onet.pl
Lines: 7
Message-ID: <its163$abi$1@news.onet.pl>
References: <4dfe2eef$0$2490$65785112@news.neostrada.pl>
<5tydnSviA_mUsmLQnZ2dnUVZ_o-dnZ2d@giganews.com>
NNTP-Posting-Host: 83.13.232.146
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-2
Content-Transfer-Encoding: 7bit
X-Trace: news.onet.pl 1308723203 10610 83.13.232.146 (22 Jun 2011 06:13:23 GMT)
X-Complaints-To: niusy@onet.pl
NNTP-Posting-Date: Wed, 22 Jun 2011 06:13:23 +0000 (UTC)
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; pl; rv:1.9.2.17) Gecko/
20110414 Thunderbird/3.1.10
In-Reply-To: <5tydnSviA_mUsmLQnZ2dnUVZ_o-dnZ2d@giganews.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:4498

W dniu 2011-06-20 13:30, news.giganews.com pisze:

> Here's the cover at least...
> http://www.magazineart.org/main.php/v/technical/radionews/
RadioNews1925-12.jpg.html

I've already seen that one. :)
So, is that mean, that this magazine is not avalaible on the Internet?

From 7024595289674346782
X-Google-Thread: 241b302a50,460c26ca2e86ccb
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-
mail
NNTP-Posting-Date: Wed, 22 Jun 2011 02:53:07 -0500
From: "news.giganews.com" <gzimmer@wideband.net.au>
Newsgroups: rec.radio.amateur.homebrew

```
References: <4dfe2eef$0$2490$65785112@news.neostrada.pl>
<5tydnSviA_mUsmLQnZ2dnUVZ_o-dnZ2d@giganews.com> <its163$abi$1@news.onet.pl>
Subject: Re: vintage "Radio News" by Hugo Gernsback
Date: Wed, 22 Jun 2011 14:54:34 +0700
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6109
X-RFC2646: Format=Flowed; Original
Message-ID: <PMCdnfkOsMr-ApzTnZ2dnUVZ_qmdnZ2d@giganews.com>
Lines: 19
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
iDlLVYrY2NYmNwWbAXS7objqjVwSpMESxnIa4q2u+inR0vK+To7laz1Ldum394DlE26xu5RoL54uTAD!
RaKymd4613Y3BTgNK0287m6mJTPbPwXR/U3ZFnLyh1Ri7PgKOt4V2RNfoFFPFEQBI+9SO/uQSQ==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1753
Xref: g2news1.google.com rec.radio.amateur.homebrew:4499
```

>> Here's the cover at least...
>> http://www.magazineart.org/main.php/v/technical/radionews/
RadioNews1925-12.jpg.html
>
> I've already seen that one. :)
> So, is that mean, that this magazine is not avalaible on the Internet?

I guess not...
Your best bet would be to check regularly on eBay. You will find a copy
there sooner or later.

Or tell us which particular article you are looking for. Someone might have
it...

And people will be more likely to help if you include a valid email address.

Regards .... Zim

```
From -2895594805977907316
X-Google-Thread: 241b302a50,460c26ca2e86ccb
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!eternal-
september.org!feeder.eternal-september.org!.POSTED!not-for-mail
```

```
From: atec77 <atec77@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: vintage "Radio News" by Hugo Gernsback
Date: Wed, 22 Jun 2011 19:08:10 +1000
Organization: A noiseless patient Spider
Lines: 16
Message-ID: <itsbds$g8g$2@dont-email.me>
References: <4dfe2eef$0$2490$65785112@news.neostrada.pl>
<5tydnSviA_mUsmLQnZ2dnUVZ_o-dnZ2d@giganews.com> <its163$abi$1@news.onet.pl>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-2; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Wed, 22 Jun 2011 09:08:13 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="boEWUuaP+eHgRsXSv318Bg";
     logging-data="16656"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19QznbTq31YD+419xrVmGR4"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-GB; rv:1.9.2.17) Gecko/
20110414 Thunderbird/3.1.10
In-Reply-To: <its163$abi$1@news.onet.pl>
Cancel-Lock: sha1:WLz5zM1MEHWAUwZjg+cl37y4SBo=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4500

On 22/06/2011 4:13 PM, Atlantis wrote:
> W dniu 2011-06-20 13:30, news.giganews.com pisze:
>
>> Here's the cover at least...
>> http://www.magazineart.org/main.php/v/technical/radionews/
RadioNews1925-12.jpg.html
>
> I've already seen that one. :)
> So, is that mean, that this magazine is not avalaible on the Internet?
I can't find anything allowing downloads
  the odd scrap and some interesting information about the man who was
quite extraordinary but not much else
  no obvious torrents or such either

--
X-No-Archive: Yes




From -6038061303476372293
X-Google-Thread: 241b302a50,91e694c146d3c23
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!d42g2000yqa.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: advice on cylindrical magnetic core for PTO with 1" micrometric drive
Date: Wed, 22 Jun 2011 07:52:26 -0700 (PDT)
Organization: http://groups.google.com
```

```
Lines: 70
Message-ID: <00bc1e3b-b09d-45ec-8739-26a383f66218@d42g2000yqa.googlegroups.com>
References: <5d35e1b7-a117-4b9f-9dd9-d9ff02d6c74c@j28g2000vbp.googlegroups.com>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1308754424 2666 127.0.0.1 (22 Jun 2011 14:53:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 22 Jun 2011 14:53:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d42g2000yqa.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (X11; Linux x86_64; rv:2.0.1) Gecko/20100101
Firefox/4.0.1,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4501

Hey OM;

61 Ferrite material is good to 10Mhz.

But Sir Douglas Hall used a band switch to cover those frequencies and
a 500pf variable capacitor to get to the lower bands, the 10pf was for
band spread.

73 OM
de n8zu

<n1...@hotmail.com> wrote:
> **warning - this is clearly crazy**
> ** just for fun, so pls bear with me! **
> ** calls for sanity --> =A0/dev/null :-D **
>
> Hello everyone!
>
> =A0I am considering building a broad tuning range, high impedance HF
> tank circuit that could be used for several _old-fashioned_ things,
> like a regen receiver or an analog RF generator, with a pair of
> twists:
> =A0- PTO TUNING, as seen in many professional and ham radios, but with
> very limited tuning range and custom-made slow motion drives.
> =A0- =A0a generic MICROMETRIC SCREW for tuning slow motion drive was, as =
I
> saw in one of Jiri
> =A0Vackar's patents.
>
> PTO HF TUNING
> I envision using a moving magnetic core either for main tuning or for
> band setting. A designer of interesting hobby radios by the name of
> (Sir) Douglas Hall obtained extremely wide tuning ratios with PT coils
```

> and extremely small fine-tuning variables, in the order of 10pF,
> without band-switching on HF, unattainable with variable capacitors.
> He also claimed better Q over the whole range. But his PT drive was
> really rough, only good enough for approximate band setting. It should
> be easy to do better.
>
> MICROMETRIC SCREWS
> Standard mechanical micrometers used for depth or thickness
> measurement contain a screw that moves a steel rod over a 25mm / 1
> inch range. They typically have a resolution of 0.01mm using the
> venier scale. This implies repositioning to 1 part over 2500 over the
> full range. Other features are extremely smooth motion, very small
> backlash, and low price. I also have a thermostat that I could use to
> heat the whole mechanical arrangement and help stability....
>
> QUESTION
> Assuming that my favorite HF range is 3-15 MHz and that core travel
> will be 25mm or less, what core size and mix you propose for best Q
> and stability over a broad tuning range?
>
> MY CURRENT CANDIDATE
> Amidon cyl. core for HF PTOs R61-050-180
> 1.8" length x 1/2" diameter, material 61.
> Excess length is necessary to keep linearity throughout the range.
> I wish diameter was larger, closer to a roughly square length/diameter
> ratio, but that's what's available.
>
> SECOND BEST (probably WAAAY SECOND)
> A cylindrical RFI core. I can count many many reasons not to use one,
> but I wonder if I am grasping at straws.
>
> Any comments?
>
> Thank you in advance!
>
> N1JPR

From 1091515312433181889
X-Google-Thread: 241b302a50,460c26ca2e86ccb
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feeder.erje.net!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: vintage "Radio News" by Hugo Gernsback
Date: Wed, 22 Jun 2011 16:51:25 -0400
Organization: A noiseless patient Spider
Lines: 16
Message-ID: <ittkkd$kj9$1@dont-email.me>

```
References: <4dfe2eef$0$2490$65785112@news.neostrada.pl>
<5tydnSviA_mUsmLQnZ2dnUVZ_o-dnZ2d@giganews.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Wed, 22 Jun 2011 20:51:26 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="G3CviXfnYM58oaaZLsYj7w";
     logging-data="21097"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19BdzlorpTdENlB6bQlGZEAJp+vX3w1m94="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.17) Gecko/20110424
Thunderbird/3.1.10
In-Reply-To: <5tydnSviA_mUsmLQnZ2dnUVZ_o-dnZ2d@giganews.com>
Cancel-Lock: sha1:5JMxkxZhbwh0ThzMSMk4D8+geJY=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4502

On 06/20/2011 07:30 AM, news.giganews.com wrote:
>> I am looking for archival issues of vintage magazine "Radio News"
>> published by Hugo Gernsback back in 20s. Especially the one from
>> December of 1925.
>
> Here's the cover at least...
> http://www.magazineart.org/main.php/v/technical/radionews/
RadioNews1925-12.jpg.html
>
>
> ............ Zim
>
>
Been looking at some of the covers at that link.
This one
http://www.magazineart.org/main.php/v/technical/radionews/
RadioNews1932-06.jpg.html
looks like a magnetron tube.


From 8929861367878405529
X-Google-Thread: 241b302a50,f291ef158b5faa07,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 23 Jun 2011 06:08:07 -0500
Date: Thu, 23 Jun 2011 11:08:07 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.17) Gecko/
20110414 Thunderbird/3.1.10
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Metal Clad mica capacitor size?
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

Message-ID: <5pmdnW6hL9EKg57TnZ2dnUVZ_v-dnZ2d@bright.net>
Lines: 8
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-ZemBX4xrBxBIXVaTDk63bfbmISOM6fkcFmGDtlVn4QOZ6Woygz9l+bDgZ2XRr3e6XdhvhtZ7XWS67J7!yPoPqfbbJ1/EdreaAajUqnfOkuRhqAiPm07p4tNCVokWtb3cICKa74bNrkzLweTi2YU1P8dMv9iU!kKgS7tmvJA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1348
Xref: g2news1.google.com rec.radio.amateur.homebrew:4503

Looking for physical dimensions of metal clad mica capacitors such as Unelco/Semco/Underwood types. CCI has them listed as types J101 and 3HS0006. I need the smallest physical sized ones (100pF) for a 902 MHz amp conversion. I emailed CCI, but thought I would ask here as well.

Thanks all,

N0EDV

From -6942269002667085305
X-Google-Thread: 241b302a50,f291ef158b5faa07
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!v11g2000prk.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Metal Clad mica capacitor size?
Date: Thu, 23 Jun 2011 10:48:37 -0700 (PDT)
Organization: http://groups.google.com
Lines: 24
Message-ID: <763e16ff-c675-4017-9411-6b1704504f2e@v11g2000prk.googlegroups.com>
References: <5pmdnW6hL9EKg57TnZ2dnUVZ_v-dnZ2d@bright.net>
NNTP-Posting-Host: 50.46.189.195
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1308852178 26030 127.0.0.1 (23 Jun 2011 18:02:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 23 Jun 2011 18:02:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v11g2000prk.googlegroups.com; posting-host=50.46.189.195; posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC

```
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:2.0.1) Gecko/20100101 Firefox/4.0.1,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4801

On Jun 23, 4:08=A0am, Scott <acepilotREM...@bloomer.net> wrote:
> Looking for physical dimensions of metal clad mica capacitors such as
> Unelco/Semco/Underwood types. =A0CCI has them listed as types J101 and
> 3HS0006. =A0I need the smallest physical sized ones (100pF) for a 902 MHz
> amp conversion. =A0I emailed CCI, but thought I would ask here as well.
>
> Thanks all,
>
> N0EDV

RF Parts has J101's listed, and the page at http://www.rfparts.com/caps_met=
alcase.html
shows the size (bottom of the page). J602 is quite a bit smaller than
J101...

If you want "small," you might consider ceramics from American
Technical Ceramics.  The ATC 800 R series could possibly give you what
you need, in a small package.  These are specifically designed for
very low RF ESR and low ESL, and ability to transfer heat out to the
terminations.  I suppose Johanson has similar parts; I just happen to
be more familiar with the ATC parts.

Cheers,
Tom



From -2566909317973942802
X-Google-Thread: 241b302a50,96c13d55fff706c5,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h12g2000pro.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: BEST HOT VIDEO WATCH HERE MODLES HOT PHOTOS
Date: Thu, 23 Jun 2011 17:43:11 -0700 (PDT)
Organization: http://groups.google.com
Lines: 52
Message-ID: <901a5005-3338-4d9a-82d5-a218dc58e570@h12g2000pro.googlegroups.com>
NNTP-Posting-Host: 117.199.243.34
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1308877962 20991 127.0.0.1 (24 Jun 2011 01:12:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 24 Jun 2011 01:12:42 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h12g2000pro.googlegroups.com; posting-host=117.199.243.34;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
```

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User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.18)
 Gecko/20110614 Firefox/3.6.18,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4802
```

VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.com/2011/06/real-kiss-hot-videos.html

HOT HOT LIP KISS
http://hotvideosfreesee.blogspot.com/2010/06/hot-for-youth.html
SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.com/2010/06/hot-101.html
YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.com/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.com/2010/06/supr-hot-never-seen.html
SUPER HOT NEVER SEEN
http://hotvideosfreesee.blogspot.com/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.com/2010/06/kajal-best-lip-kiss.html

for mopre hot videos
http://allvideosforyouth.blogspot.com/2010/08/super-hot-lip-kiss.html

jobs
http://alljobsaywhere.blogspot.com/

games

GAME 1
http://freeonlingamesplay.blogspot.com/2010/08/game-1.html
GAME 2
http://freeonlingamesplay.blogspot.com/2010/08/game-2.html

mobile

mobile games free download
http://mobileallinforation.blogspot.com/2010/08/mobile-games-free-download.html

mobile ringtones free download

http://mobileallinforation.blogspot.com/2010/08/mobile-ringtones-free-download.html

```
From 1992001439407474098
X-Google-Thread: 241b302a50,f291ef158b5faa07
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!gv8g2000vbb.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Metal Clad mica capacitor size?
Date: Mon, 27 Jun 2011 11:15:34 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <692341b6-482d-4c5b-bdce-2bb60eee9cc3@gv8g2000vbb.googlegroups.com>
References: <5pmdnW6hL9EKg57TnZ2dnUVZ_v-dnZ2d@bright.net>
NNTP-Posting-Host: 170.121.14.11
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1309198534 9479 127.0.0.1 (27 Jun 2011 18:15:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 27 Jun 2011 18:15:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: gv8g2000vbb.googlegroups.com; posting-host=170.121.14.11; posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HNKRUAELSC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1) AppleWebKit/534.30 (KHTML, like
 Gecko) Chrome/12.0.742.100 Safari/534.30,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4506
```

On Jun 23, 7:08=A0am, Scott <acepilotREM...@bloomer.net> wrote:

> Looking for physical dimensions of metal clad mica capacitors such as
> Unelco/Semco/Underwood types. =A0CCI has them listed as types J101 and
> 3HS0006. =A0I need the smallest physical sized ones (100pF) for a 902 MHz
> amp conversion. =A0I emailed CCI, but thought I would ask here as well.

Mica capacitors may be a little more traditional (and I see them in UHF app notes still)... but I can't see any reason to not use a modern microwave-type porcelain or glass cap here.

e.g. http://www.atceramics.com/pdf/prod_select(4).pdf

N3QE

```
From -2391239183660869956
X-Google-Thread: 241b302a50,bd7e07fdbbcd0040,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 27 Jun 2011 23:34:50 -0500
Date: Tue, 28 Jun 2011 04:34:50 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.17) Gecko/
20110414 Thunderbird/3.1.10
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: 2304 transverter for sale
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <sLKdneK5UrN3xJTTnZ2dnUVZ_tAAAAAA@bright.net>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
DNUCU+2dWitGSqL2uXqigxWvM0hzp0caK3jEcVDblzcdkzwLsOI2pMPGuFd+fLRtuvEVn3ouJd+Kq9q!
wed/3WUeG/tYq3C2F/tXSdezYS0LXbknsPIyia7FvcSM2jA2HfI9SXKM+PrFBmfhHOb1DLLxuDzt!
b+iPtzR6TQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2167
Xref: g2news2.google.com rec.radio.amateur.homebrew:4804
```

I just built and tested a DEMI 2304-144 transverter and it is now for sale. Set up for 9.3W in at 144 MHz and gives 1.00W at 2304. The receive sensitivity is good, with my 2304 MHz signal at -85 dBm giving S8 to S9 on my FT-857 IF radio. Unit is built with common IF in/out, split TX/RX at 2304 and requires a 10 MHz source for the synthesized L.O. Switch is installed for dual frequency operation, but is not wired. By wiring this switch, you can select between 2304 and one other frequency - 2320 or 2424 MHz (NOTE: 2320 is NOT an authorized TX frequency in the USA, but 2424 is). No T/R relay included, but unit is built to work with standard 24V SMA relays. Photos of transverter on the ham radio page at my website below. Unit has been tested at 2304 MHz only.

Price: $495.00. Save yourself 5 bucks and 18 weeks of your life (DEMI's quoted lead time for factory built units). $15 shipping to

CONUS, $25 shipping to Alaska or Hawaii. No International shipping,
sorry (too much money and too much friggin' paperwork!

acepilot at bloomer dot net

N0EDV
http://corbenflyer.tripod.com/

From -2457020911234660924
X-Google-Thread: fc2a5,db2b39686ab99eda,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!goblin3!goblin.stu.neva.ru!odin.sdf-eu.org!.POSTED!mcalhoun
From: Myron A. Calhoun <mcalhoun@sdf.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Where is "on when engine is running" wire in F-150 pickup?
Date: Thu, 30 Jun 2011 04:14:56 +0000 (UTC)
Organization: SDF Public Access UNIX System, Est. 1987
Lines: 9
Message-ID: <iugt80$djn$1@odin.sdf-eu.org>
NNTP-Posting-Host: sverige.freeshell.org
X-Trace: odin.sdf-eu.org 1309407296 13943 192.94.73.4 (30 Jun 2011 04:14:56 GMT)
X-Complaints-To: usenet@odin.sdf-eu.org
NNTP-Posting-Date: Thu, 30 Jun 2011 04:14:56 +0000 (UTC)
User-Agent: nn/6.7.3
Xref: g2news1.google.com rec.radio.amateur.homebrew:4508

I want to put a second battery (for my radios) in my 1994 F-150 pickup truck and connect it to the original battery (for the starter and engine) with a relay such that the batteries are in parallel when the engine is running (and the generator is presumably generating) and are separate when the engine is not running. I did this with my previous '84 F-100 pickup, but I can't find the "on when engine is running" wire in my F-150. Does this wire appear anywhere under the hood?

--W0PBV.

From -4551352004685449486
X-Google-Thread: fcc6e,3e9a82fc830b3b37,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,3e9a82fc830b3b37,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,3e9a82fc830b3b37,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,3e9a82fc830b3b37,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,3e9a82fc830b3b37,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,3e9a82fc830b3b37,start

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X-Google-NewGroupId: yes
X-Google-Thread: 10e8ad,3e9a82fc830b3b37,start
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X-Google-Thread: 10b9c8,3e9a82fc830b3b37,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf
6,gid8f86f75953,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-out.readnews.com!
news-xxxfer.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1306908001@panix.com>
Followup-To: poster
Date: 1 Jul 2011 02:00:03 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Aug 2011 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1309500001@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1309500003 22813 166.84.1.2 (1 Jul 2011 06:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 1 Jul 2011 06:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Xref: g2news2.google.com rec.radio.amateur.antenna:23743 rec.radio.amateur.dx:1069
rec.radio.amateur.equipment:2845 rec.radio.amateur.homebrew:4806
rec.radio.amateur.misc:6585 rec.radio.amateur.policy:33908
rec.radio.amateur.space:541 rec.radio.info:2540

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html
```

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From -7956650674664310226
X-Google-Thread: 241b302a50,74bb68a3e7050c8b,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!d26g2000prn.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SEXY VIDEOS AND HOT 2011PHOTOS FREE
Date: Fri, 1 Jul 2011 17:55:25 -0700 (PDT)
Organization: http://groups.google.com
Lines: 52
Message-ID: <55262c75-98cd-46cd-9b5e-c3ce48d68427@d26g2000prn.googlegroups.com>
NNTP-Posting-Host: 117.199.242.66
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1309568125 23429 127.0.0.1 (2 Jul 2011 00:55:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 2 Jul 2011 00:55:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d26g2000prn.googlegroups.com; posting-host=117.199.242.66;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.18)
 Gecko/20110614 Firefox/3.6.18,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4807
```

VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.com/2011/06/real-kiss-hot-videos.html

HOT HOT LIP KISS
http://hotvideosfreesee.blogspot.com/2010/06/hot-for-youth.html
SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.com/2010/06/hot-101.html
YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.com/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.com/2010/06/supr-hot-never-seen.html
SUPER HOT NEVER SEEN
http://hotvideosfreesee.blogspot.com/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.com/2010/06/kajal-best-lip-kiss.html

for mopre hot videos
http://allvideosforyouth.blogspot.com/2010/08/super-hot-lip-kiss.html

jobs
http://alljobsaywhere.blogspot.com/

games

GAME 1
http://freeonlingamesplay.blogspot.com/2010/08/game-1.html
GAME 2
http://freeonlingamesplay.blogspot.com/2010/08/game-2.html

mobile

mobile games free download
http://mobileallinforation.blogspot.com/2010/08/mobile-games-free-download.html

mobile ringtones free download
http://mobileallinforation.blogspot.com/2010/08/mobile-ringtones-free-download.html

```
From 1562691983522036762
X-Google-Thread: 241b302a50,cb6e659d413a65da,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 02 Jul 2011 14:27:45 -0500
Date: Sat, 02 Jul 2011 14:27:52 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.18) Gecko/
20110616 Thunderbird/3.1.11
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Clamp Meter Problem.
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <hPadnRn_iYWs7JLTnZ2dnUVZ_s-dnZ2d@giganews.com>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-cKGFmL575xcY+jwUFYci0RfXJcC/
iUmsshS4zQU3kWndFGWu9i3YOjs3RIrz399eNEtlG+Aq7eY27/R!cnPKwxOfial/YEuItwy/
cdWdcscLcJXm/tD9I5D5MlAV7l4S4sFS0vBHR869HpSCASt2E0HGGA==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1914
Xref: g2news2.google.com rec.radio.amateur.homebrew:4808
```

I've got a problem. A good problem.

Always wanted a clamp meter - but never wanted to pay the price.

So when the cheapie Chinese models came along, I bought one.
A model DT3266E to be precise.
2A~ 20A~ 200A~   coupla ohms scales and voltage scales
with attached leads.

Anyway, I knew in my head that cheapie clamp ons are only
  good for AC - and that's what the range selecter said too.

But still, I bought a way expensive little lead acid battery for a Honda
Recon 4 wheel RV, and filled it with the acid provided then hooked it to
a charger.

I tried the clip on. It read 2.5 A initially.
That seemed about right.
It tapered to 0.9 A in the next few hours. THAT seemed right.

Here's the problem: if it works on DC (or maybe rough DC)
  why is it marked for AC only?

Brian W

From -5555259607869406987
X-Google-Thread: fc2a5,cb6e659d413a65da
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: david <none@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Clamp Meter Problem.
Date: Sat, 2 Jul 2011 20:09:45 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 29
Message-ID: <iuntu9$6hm$1@dont-email.me>
References: <hPadnRn_iYWs7JLTnZ2dnUVZ_s-dnZ2d@giganews.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Injection-Date: Sat, 2 Jul 2011 20:09:45 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="j6YNSx4ZzkGtILp30gi9hg";
     logging-data="6710"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18VzB+JJhkJLuD1fAIzxho1"
Cancel-Lock: sha1:ZWIsfrHNv04BzP1scmPBwEka4fE=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4512

On Sat, 02 Jul 2011 14:27:52 -0500, brian whatcott rearranged some
electrons to say:

> I've got a problem. A good problem.
>

> Always wanted a clamp meter - but never wanted to pay the price. So when
> the cheapie Chinese models came along, I bought one. A model DT3266E to
> be precise.
> 2A~ 20A~ 200A~   coupla ohms scales and voltage scales with attached
> leads.
>
>
> Anyway, I knew in my head that cheapie clamp ons are only
>   good for AC - and that's what the range selecter said too.
>
> But still, I bought a way expensive little lead acid battery for a Honda
> Recon 4 wheel RV, and filled it with the acid provided then hooked it to
> a charger.
>
> I tried the clip on. It read 2.5 A initially. That seemed about right.
> It tapered to 0.9 A in the next few hours. THAT seemed right.
>
> Here's the problem: if it works on DC (or maybe rough DC)
>   why is it marked for AC only?
>
> Brian W

You're assuming it works... are you sure that the DC values that were
read were anywhere close to being accurate?

From -1763877686121377603
X-Google-Thread: fc2a5,cb6e659d413a65da
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 02 Jul 2011 15:55:28 -0500
Date: Sat, 02 Jul 2011 15:55:36 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.18) Gecko/
20110616 Thunderbird/3.1.11
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Clamp Meter Problem.
References: <hPadnRn_iYWs7JLTnZ2dnUVZ_s-dnZ2d@giganews.com> <iuntu9$6hm$1@dont-
email.me>
In-Reply-To: <iuntu9$6hm$1@dont-email.me>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <rbOdnfOb-tRdGJLTnZ2dnUVZ_judnZ2d@giganews.com>
Lines: 34
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-cfh8csk/HW4PQSaktzApvsOanTDyk+
+xZ3Bg2yf5abx1WbpdLM8czNCJtuM5007irQ3hFNJEtOkaiob!yK/OD51y/

```
wudtp7SThJzvnqZ5Ef5RZOgdZBpWVmtk4dTwgTIaHyjdf2XZIauPfEVHAOTlC7YHA==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2450
Xref: g2news1.google.com rec.radio.amateur.homebrew:4513

On 7/2/2011 3:09 PM, david wrote:
> On Sat, 02 Jul 2011 14:27:52 -0500, brian whatcott rearranged some
> electrons to say:
>
>> I've got a problem. A good problem.
>>
>> Always wanted a clamp meter - but never wanted to pay the price. So when
>> the cheapie Chinese models came along, I bought one. A model DT3266E to
>> be precise.
>> 2A~ 20A~  200A~   coupla ohms scales and voltage scales with attached
>> leads.
>>
>>
>> Anyway, I knew in my head that cheapie clamp ons are only
>>    good for AC - and that's what the range selecter said too.
>>
>> But still, I bought a way expensive little lead acid battery for a Honda
>> Recon 4 wheel RV, and filled it with the acid provided then hooked it to
>> a charger.
>>
>> I tried the clip on. It read 2.5 A initially. That seemed about right.
>> It tapered to 0.9 A in the next few hours. THAT seemed right.
>>
>> Here's the problem: if it works on DC ( or maybe rough DC)
>>    why is it marked for AC only?
>>
>> Brian W
>
> You're assuming it works... are you sure that the DC values that were
> read were anywhere close to being accurate?

Rough and ready test only: it was agreeing with the MC meter on the charger.

Brian W


From 2293409832467533794
X-Google-Thread: 241b302a50,cb6e659d413a65da
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
```

nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 02 Jul 2011 16:44:13 -0500
Reply-To: "Ralph Mowery" <rmowery28146@earthlink.net>
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <hPadnRn_iYWs7JLTnZ2dnUVZ_s-dnZ2d@giganews.com>
Subject: Re: Clamp Meter Problem.
Date: Sat, 2 Jul 2011 17:44:16 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <AqudnWaMJLmwDJLTnZ2dnUVZ_uOdnZ2d@earthlink.com>
Lines: 35
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.148.196.49
X-Trace: sv3-h0UdxHIxx9V8/hkqGl7zfTA/NTe5IUwJjVXnjfW/
vfa8iBOaAcPJZDwJURFdqeRF7EeoXEWd4tIa6TW!
JZUtcDpNAHcU6yiHe7o+6YYlmvHbaTgPTPcm599PaXVDtAy35SgkpShY76kpyvoayFktikWtOshx!
XuvgyJ4+anGOZAtcyKQGK+gVCw1yYiM1Nl4i3uI=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2456
Xref: g2news1.google.com rec.radio.amateur.homebrew:4514

"brian whatcott" <betwys1@sbcglobal.net> wrote in message
news:hPadnRn_iYWs7JLTnZ2dnUVZ_s-dnZ2d@giganews.com...
> I've got a problem. A good problem.
>
> Always wanted a clamp meter - but never wanted to pay the price.
> So when the cheapie Chinese models came along, I bought one.
> A model DT3266E to be precise.
> 2A~ 20A~ 200A~   coupla ohms scales and voltage scales
> with attached leads.
>
>
> Anyway, I knew in my head that cheapie clamp ons are only
> good for AC - and that's what the range selecter said too.
>
> But still, I bought a way expensive little lead acid battery for a Honda
> Recon 4 wheel RV, and filled it with the acid provided then hooked it to a
> charger.
>
> I tried the clip on. It read 2.5 A initially.
> That seemed about right.
> It tapered to 0.9 A in the next few hours. THAT seemed right.
>
> Here's the problem: if it works on DC (or maybe rough DC)
> why is it marked for AC only?

>
> Brian W

Chances are the charger is putting out pulses (half wave or full wave from a rectifier) instead of filtered DC. The magnetic field around the wire is building up and falling similar to an AC current would act.
I would not trust the exect values of the meter for the DC current unless verified by another meter.

```
From -1980083378448210658
X-Google-Thread: 241b302a50,cb6e659d413a65da
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-16.dc1.easynews.com.POSTED!not-for-mail
From: Peter <peter@arin.htlm.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Clamp Meter Problem.
Message-ID: <h0rv07pp5h6pie8g0atkgl70sensbiri8a@4ax.com>
References: <hPadnRn_iYWs7JLTnZ2dnUVZ_s-dnZ2d@giganews.com>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 34
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Sun, 03 Jul 2011 14:15:59 +1000
Xref: g2news1.google.com rec.radio.amateur.homebrew:4515
```

On Sat, 02 Jul 2011 14:27:52 -0500, brian whatcott
<betwys1@sbcglobal.net> wrote:

>I've got a problem. A good problem.
>
>Always wanted a clamp meter - but never wanted to pay the price.
>So when the cheapie Chinese models came along, I bought one.
>A model DT3266E to be precise.
>2A~ 20A~ 200A~   coupla ohms scales and voltage scales
>with attached leads.
>
>
>Anyway, I knew in my head that cheapie clamp ons are only
> good for AC - and that's what the range selecter said too.
>

>But still, I bought a way expensive little lead acid battery for a Honda
>Recon 4 wheel RV, and filled it with the acid provided then hooked it to
>a charger.
>
>I tried the clip on. It read 2.5 A initially.
>That seemed about right.
>It tapered to 0.9 A in the next few hours. THAT seemed right.
>
>Here's the problem: if it works on DC (or maybe rough DC)
> why is it marked for AC only?
>
>Brian W

Could be a problem with the iron circuit getting sturated at higher levels of DC current, even though it seems to work at the lower levels, and also there may be the problem of magnetising the core, and causing subsequent measurements to be inaccurate.

peter

```
From -4887385901715636397
X-Google-Thread: 241b302a50,cb6e659d413a65da
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 03 Jul 2011 17:00:55 -0500
Date: Sun, 03 Jul 2011 17:01:06 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.18) Gecko/
20110616 Thunderbird/3.1.11
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Clamp Meter Problem.
References: <hPadnRn_iYWs7JLTnZ2dnUVZ_s-dnZ2d@giganews.com>
<h0rv07pp5h6pie8g0atkgl70sensbiri8a@4ax.com>
In-Reply-To: <h0rv07pp5h6pie8g0atkgl70sensbiri8a@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <peCdnQ4wzYkKe43TnZ2dnUVZ_gKdnZ2d@giganews.com>
Lines: 41
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-pO1XtE9iK1KwuMJmwZk4HdJTDXlqS52UBnodpWbvULcawMzc2MZyWXlNyZ7I/
EUlVmN+Nqswb9/a/eK!SO/
y5gTSi4tGVtGmQIA5qb3kcZeu5YHCd6oV6UaCDmJqjEpMuHVJg5UyhU3wtvZAHJtXf1n9nA==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

```
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2713
Xref: g2news2.google.com rec.radio.amateur.homebrew:4813

On 7/2/2011 11:15 PM, Peter wrote:
> On Sat, 02 Jul 2011 14:27:52 -0500, brian whatcott
> <betwys1@sbcglobal.net>  wrote:
>
>> I've got a problem. A good problem.
>>
>> Always wanted a clamp meter - but never wanted to pay the price.
>> So when the cheapie Chinese models came along, I bought one.
>> A model DT3266E to be precise.
>> 2A~ 20A~  200A~   coupla ohms scales and voltage scales
>> with attached leads.
>>
>>
>> Anyway, I knew in my head that cheapie clamp ons are only
>>   good for AC - and that's what the range selecter said too.
>>
>> But still, I bought a way expensive little lead acid battery for a Honda
>> Recon 4 wheel RV, and filled it with the acid provided then hooked it to
>> a charger.
>>
>> I tried the clip on. It read 2.5 A initially.
>> That seemed about right.
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>>
>> Here's the problem: if it works on DC ( or maybe rough DC)
>>   why is it marked for AC only?
>>
>> Brian W
>
> Could be a problem with the iron circuit getting sturated at higher
> levels of DC current, even though it seems to work at the lower
> levels, and also there may be the problem of magnetising the core, and
> causing subsequent measurements to be inaccurate.
>
> peter

Thanks for the sensible suggestions, folks. The clamp is made from
laminations, no doubt.
  Just surprised it tracked so well on low DC amps.

Brian W


From 8884676250110613621
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder2.cambriumusenet.nl!
feeder1.cambriumusenet.nl!feed.tweaknews.nl!193.201.147.78.MISMATCH!feeder.news-
service.com!216.196.110.146.MISMATCH!border3.nntp.ams.giganews.com!
```

```
Xl.tags.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!
local2.nntp.ams.giganews.com!nntp.westnet.com.au!news.westnet.com.au.POSTED!not-
for-mail
NNTP-Posting-Date: Sun, 03 Jul 2011 20:21:13 -0500
From: who where <noone@home.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Clamp Meter Problem.
Date: Mon, 04 Jul 2011 09:21:24 +0800
Message-ID: <3u4217hrkqclcie0kmks7rhf3prio9e40o@4ax.com>
References: <hPadnRn_iYWs7JLTnZ2dnUVZ_s-dnZ2d@giganews.com>
<h0rv07pp5h6pie8g0atkgl70sensbiri8a@4ax.com>
<peCdnQ4wzYkKe43TnZ2dnUVZ_gKdnZ2d@giganews.com>
X-Newsreader: Forte Free Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 54
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 58.7.211.131
X-Trace: sv3-i9R0iId4AOmE+o7VJI98lgg2GGMhO/
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HWd2eCbmjpN+XmuHAgUNxX2QnOxL40JhJOvXhkVUBGeJvVjxUrXTQ5BFPF2Shw0STvJToVYAVGvh!
oko+h/YqGJbe
X-Complaints-To: abuse@westnet.com.au
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 3351
Xref: g2news1.google.com rec.radio.amateur.homebrew:4517

On Sun, 03 Jul 2011 17:01:06 -0500, brian whatcott
<betwys1@sbcglobal.net> wrote:

>On 7/2/2011 11:15 PM, Peter wrote:
>> On Sat, 02 Jul 2011 14:27:52 -0500, brian whatcott
>> <betwys1@sbcglobal.net>  wrote:
>>
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>>>
>>> Always wanted a clamp meter - but never wanted to pay the price.
>>> So when the cheapie Chinese models came along, I bought one.
>>> A model DT3266E to be precise.
>>> 2A~ 20A~  200A~   coupla ohms scales and voltage scales
>>> with attached leads.
>>>
>>>
>>> Anyway, I knew in my head that cheapie clamp ons are only
>>>   good for AC - and that's what the range selecter said too.
>>>
>>> But still, I bought a way expensive little lead acid battery for a Honda
>>> Recon 4 wheel RV, and filled it with the acid provided then hooked it to
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```

```
>>>
>>> I tried the clip on. It read 2.5 A initially.
>>> That seemed about right.
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>> levels of DC current, even though it seems to work at the lower
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>>
>> peter
>
>Thanks for the sensible suggestions, folks. The clamp is made from
>laminations, no doubt.
>  Just surprised it tracked so well on low DC amps.

Try it on straight DC, such as the main battery leads in your vehicle
with headlights or sidelights only.  You may just discover that
Ralph's explanation is correct.

(I have a cheapie battery charger which is nothing more than a
transformer and full-wave bridge, so the waveform of charge current is
a series of pulses at 100 Hz.  I have two clampmeters, an AC-only unit
which registers on my cheapie battery charger's output, and a
Hall-effect cheapie which shows DC correctly.  Must admit I haven't
tried the HE one on the battery charger yet.  Expect a "compromised"
reading or just average current.  Note to self ...).


From -8905794885352247371
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 03 Jul 2011 23:31:59 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: low intermod RF amplifiers for HF.
From: clifford wright <c.c.wright@paradise.net.nz>
Organization: Wright retro radio
Message-ID: <Xns9F18A82DAA644crite40@216.196.97.131>
User-Agent: Xnews/5.04.25
Date: Sun, 03 Jul 2011 23:31:59 -0500
Lines: 17
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
MHI1YRJma358YwA0TzwdZe8pPQg2ZDrq6MXyRTJyPsDbJvJygnJEeqp3eZxU3Ga+reDYuFvH3latVr0!
Fz5NQRDw8w/6qpjQ1/m5TQKMeTx5cK8ievcGVvOGSWafYawdvPpyDXXDARQsPlb/pg==
X-Complaints-To: abuse@giganews.com
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X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1842
Xref: g2news1.google.com rec.radio.amateur.homebrew:4518

Good day!
Can anyone point me towards a good design for a good RF stage for my home
brew HF receiver. I have no less than 6 others hams in my small town and
one within 400 metres, so I need good strong signal performance.
10 to 15 dB gain would be ample, but I would like to have 50 Ohm input and
output impeadances.
The receiver is an upconverter to 45MHz with a 15 kHz bandwidth xtal filter
followed by a downconverting mixer to either 9MHz or 10.7 MHz with separate
IF strips.
Tuning is by a PA0KLT synthesiser.
I have been a bit out of touch lately and am not very up to date with the
latest MOSFETS etc. The mixers use the 1992 Ulrich Rohde FET double
balanced mixer circuit.
The rest of the sytem was built back in the early 1990's but put to one
side until a better frequency sythesiser was available.
Now it looks like the time to get things moving again!
Regards Cliff Wright ZL1BDA ex G3NIA.

From 6194447437913437655
X-Google-Thread: 241b302a50,6beae962f3155603
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
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Path: g2news1.google.com!news3.google.com!feeder2.cambriumusenet.nl!feeder1.cambriumusenet.nl!feed.tweaknews.nl!193.201.147.68.MISMATCH!feeder.news-service.com!94.75.214.39.MISMATCH!aioe.org!.POSTED!not-for-mail
From: "Piero Soldi" <piero.soldi@libero.it>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: low intermod RF amplifiers for HF.
Date: Mon, 4 Jul 2011 10:29:19 +0200
Organization: Aioe.org NNTP Server
Lines: 39
Message-ID: <iurtl9$6ma$1@speranza.aioe.org>
References: <Xns9F18A82DAA644crite40@216.196.97.131>
NNTP-Posting-Host: Egk1LTqhxHe/T3iAws6/Ow.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-Antivirus-Status: Clean
X-Notice: Filtered by postfilter v. 0.8.2
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-Antivirus: avast! (VPS 110703-1, 03/07/2011), Outbound message
X-Priority: 3
X-MSMail-Priority: Normal

Xref: g2news1.google.com rec.radio.amateur.homebrew:4519

Hello Cliff,

try to find "Experimental Methods in RF Design" published by ARRL,
authors : W7ZOI, KK7B, W7PUA.

It is a gold mine of infos and circuits !

For excellent intermod quality, consider also H-mode converters.

This link is very informative :

http://martein.home.xs4all.nl/pa3ake/hmode/

73, Piero i5spo.

"clifford wright" <c.c.wright@paradise.net.nz> ha scritto nel messaggio
news:Xns9F18A82DAA644crite40@216.196.97.131...

> Good day!
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> brew HF receiver. I have no less than 6 others hams in my small town and
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> filter
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> IF strips.
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From -2838962176003554620
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X-Google-Attributes: gid241b302a50,public,usenet
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Path: g2news1.google.com!postnews.google.com!r21g2000pri.googlegroups.com!not-for-mail
From: tejaswini <teju9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ONLY FOR MEN`

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Date: Mon, 4 Jul 2011 08:58:19 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <8650104c-c8c9-4dc6-8d09-3d39f56a8665@r21g2000pri.googlegroups.com>
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Mime-Version: 1.0
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 4 Jul 2011 15:59:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r21g2000pri.googlegroups.com; posting-host=117.199.248.211;
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 Gecko/20110614 Firefox/3.6.18,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4520

          FOR FAST UPDATED IN TELUGU FILM INDUSTRY
                          http://allyouwants.blogspot.com/
                 PRIYAMANI SPICY PHOTOS IN COW GIRL
http://allyouwants.blogspot.com/2011/02/priyamani-spicy-photo-shoot-cow-girl.html
                    KAJAL HOT PHOTOS IN SAREE
http://allyouwants.blogspot.com/2011/06/kajal-very-spice-pics.html
                   TAPSEE SISTER HOT STILLS FOR U
http://allyouwants.blogspot.com/2011/06/tapsee-sister-shagun-pannu-hot-photo.html
                     NAMITHA LATEST HOT PHOTO STILLS
http://allyouwants.blogspot.com/2011/06/namithas-latest-stills-from-her.html
                    trisha in pothys ad stills exclusive for u
http://allyouwants.blogspot.com/2010/12/trisha-in-pothys-ad-stills.html
                  NIKITHA HOT PHOTO STILLS
http://allyouwants.blogspot.com/2011/01/nikitha-hot-stills-in-blue-saree.html

                FOR GOOD JOBS SITES TO YOU
                 http://goodjobssites.blogspot.com/

                       FOR HOT PHOTO&VIDEOS
                     KATRINA KAIF IN BEAUTIFUL RED DRESS
http://southactresstou.blogspot.com/2011/05/katrina-kaif_22.html
                        GOOD LOOKING DEEPIKA PADUKONE
http://southactresstou.blogspot.com/2011/05/deepika-padukone_22.html


From 7046794283550142855
X-Google-Thread: 241b302a50,cb6e659d413a65da
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
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news.giganews.com.POSTED!not-for-mail
```

```
NNTP-Posting-Date: Mon, 04 Jul 2011 22:13:02 -0500
Date: Mon, 04 Jul 2011 22:13:16 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.18) Gecko/
20110616 Thunderbird/3.1.11
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Bi-phase Battery Charging (was  Clamp Meter Problem.)
References: <hPadnRn_iYWs7JLTnZ2dnUVZ_s-dnZ2d@giganews.com>
<h0rv07pp5h6pie8g0atkgl70sensbiri8a@4ax.com>
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lJMvb0EM2ck27F9V6iQaytmKCfakbDM70xg==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 4327
Xref: g2news1.google.com rec.radio.amateur.homebrew:4521

On 7/3/2011 8:21 PM, who where wrote:
> On Sun, 03 Jul 2011 17:01:06 -0500, brian whatcott
> <betwys1@sbcglobal.net>  wrote:
>
>> On 7/2/2011 11:15 PM, Peter wrote:
>>> On Sat, 02 Jul 2011 14:27:52 -0500, brian whatcott
>>> <betwys1@sbcglobal.net>   wrote:
>>>
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>>>>
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>>>> Recon 4 wheel RV, and filled it with the acid provided then hooked it to
```

>>>> a charger.
>>>>
>>>> I tried the clip on. It read 2.5 A initially.
>>>> That seemed about right.
>>>> It tapered to 0.9 A in the next few hours. THAT seemed right.
>>>>
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>>>>
>>>> Brian W
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>>> peter
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>
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> Hall-effect cheapie which shows DC correctly. Must admit I haven't
> tried the HE one on the battery charger yet. Expect a "compromised"
> reading or just average current. Note to self ...).

Wandering way off topic - the talk of charging batteries with 'rough' DC
reminds me that some years ago now, it was found that a "two steps
forward, one step back" charging approach is supposed to have a very
healthy effect on batteries.   That is to say, a leaky recifier that
discharges at a fraction of the rate that it charges on each half cycle
is supposed to eliminate the formation of spurs and peaks on electrodes
which improves battery life....
(Come to think of it, this 6 amp charger of mine never charges much over
2 amps any more, even when working into a battery with a dead cell)

Brian W

From 4397951749525742244
X-Google-Thread: 241b302a50,6beae962f3155603
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII

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mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: low intermod RF amplifiers for HF.
Date: Tue, 5 Jul 2011 18:02:57 -0700 (PDT)
Organization: http://groups.google.com
Lines: 73
Message-ID: <10c97069-de9c-4595-b07c-4af933726171@y13g2000prb.googlegroups.com>
References: <Xns9F18A82DAA644crite40@216.196.97.131>
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Content-Type: text/plain; charset=ISO-8859-1
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X-Trace: posting.google.com 1309915001 25729 127.0.0.1 (6 Jul 2011 01:16:41 GMT)
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NNTP-Posting-Date: Wed, 6 Jul 2011 01:16:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y13g2000prb.googlegroups.com; posting-host=50.46.189.195; posting-
account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:5.0) Gecko/20100101 Firefox/
5.0,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4522

On Jul 3, 9:31=A0pm, clifford wright <c.c.wri...@paradise.net.nz> wrote:
> Good day!
> Can anyone point me towards a good design for a good RF stage for my home
> brew HF receiver. I have no less than 6 others hams in my small town and
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> output impeadances.
> The receiver is an upconverter to 45MHz with a 15 kHz bandwidth xtal filt=
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> followed by a downconverting mixer to either 9MHz or 10.7 MHz with separa=
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> IF strips.
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> The rest of the sytem was built back in the early 1990's but put to one
> side until a better frequency sythesiser was available.
> Now it looks like the time to get things moving again!
> Regards Cliff Wright ZL1BDA ex G3NIA.

Ah, one of my favorite subjects...

You don't mention any specific numbers you're trying to reach...
```

I've been working on something where I need a modest-gain HF amplifier with good intermod performance. I have a couple of Spectrum Microwave amplifiers that have about 20dB gain, nice noise figure around 3dB, and about +55dBm TOI. But...they cost close to $1000 each, and need 400mA at 24V--about ten watts! That's fine for testing, but not to actually use in the circuit, both the cost and the power dissipation.

For about a watt dissipation, I can get similar gain and almost as good TOI--but poorer NF--using a couple op amp packages, the first op amp to get the gain and the second to buffer the output and drive 50 ohms. The NF in the mid-teens is still good enough for HF work, especially when faced with huge signals. If you look at differential op amps designed to drive high speed ADCs, you'll find some pretty nice third order distortion numbers. Parts from Analog Devices, Linear Technology and Texas Instruments all come to mind.

As Piero suggests, you need to pay attention to the mixers to get similarly excellent performance there -- and even to the crystal filters, to be sure that they are up to the task of keeping distortion low.

Also, I've built quite a few preselection filters for HF, and after trying lots of different types of inductors (ferrite and powdered iron toroid core, and magnetic-cored solenoid coils), decided that the only coils I could use and guarantee adequately low distortion were ones with non-magnetic cores...nominally "air" core coils. Unfortunately, they are not as nice about rejecting external fields as the toroids, so I've had to be careful about shielding.

I also spent quite a bit of time looking for switches with adequately low distortion. I needed to switch filters quickly and potentially millions of times, so I looked at every electronic switch I could find. None of them was particularly good at HF. I found some tiny reed relays, and they are OK, but even they contribute significant distortion--barely good enough for what I was doing. Thankfully, they last pretty much forever when switching RF at less than perhaps +10dBm. RF armature relays that I've tested are all pretty darned good--but have finite life.

Summary: if you want to be serious about low distortion, you need to look at pretty much every part of the circuit. That includes asking questions like, "Do I really need that RF amplifier, or is the NF going straight into the mixer good enough?" and, "Can I rearrange the circuit blocks to get even better performance?"

Cheers,
Tom

```
From 6001715520913122086
X-Google-Thread: 241b302a50,6beae962f3155603
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
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X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!v10g2000yqn.googlegroups.com!not-for-
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From: "Gian, I7SWX" <i7swx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: low intermod RF amplifiers for HF.
Date: Wed, 6 Jul 2011 04:07:52 -0700 (PDT)
Organization: http://groups.google.com
Lines: 45
Message-ID: <9424ec09-dea2-41c4-9626-93bc88d041e2@v10g2000yqn.googlegroups.com>
References: <Xns9F18A82DAA644crite40@216.196.97.131>
NNTP-Posting-Host: 95.239.79.117
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1309950853 30673 127.0.0.1 (6 Jul 2011 11:14:13 GMT)
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NNTP-Posting-Date: Wed, 6 Jul 2011 11:14:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v10g2000yqn.googlegroups.com; posting-host=95.239.79.117; posting-
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5.0,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4523
```

On Jul 4, 6:31=A0am, clifford wright <c.c.wri...@paradise.net.nz> wrote:

> Good day!
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> 10 to 15 dB gain would be ample, but I would like to have 50 Ohm input an=
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> balanced mixer circuit.
> The rest of the sytem was built back in the early 1990's but put to one
> side until a better frequency sythesiser was available.
> Now it looks like the time to get things moving again!
> Regards Cliff Wright ZL1BDA ex G3NIA

Hi Cliff,

Piero and Tom gave you good comments.

If you need a strong front end your problem is not in the rf amplifier. You need a strong 1st and 2nd mixer and for this there is no better solution than the H-Mode Mixer. Having a una upconversion 1st IF, your critical point will be the 2nd mixer that will receive strong signal amplified by this stage..

If you look at PA3AKE web page you con find info regarding my simplified version I7SWX 2T H-Mode Mixer (http://martein.home.xs4all.nl/pa3ake/hmode/2t-hmode.html). This has only 2 transformers and homebrewed, not purchased. You will see the info on transformers winding, the one with 5 windings may seem difficult but is not. In low bands you may avoid to have a preamp. Look at the G3XJP project Pic-A-Star (RSGB RadCom and also reported in the Handbook).

73

Gian
I7SWX

www.hurricaneproject.altervista.org

From -6744194937093932217
X-Google-Thread: a4a23d5f63,40baccece47ce695,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-out.readnews.com!transit4.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1307426700@panix.com>
Followup-To: poster
Date: 7 Jul 2011 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Aug 2011 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1310018700@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1310018702 28525 166.84.1.2 (7 Jul 2011 06:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 7 Jul 2011 06:05:02 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:22010 rec.radio.amateur.dx:1030 rec.radio.amateur.equipment:2633 rec.radio.amateur.homebrew:4525 rec.radio.amateur.misc:6347 rec.radio.amateur.policy:30948 rec.radio.info:2483

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |
rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

```
From -642030307992238069
X-Google-Thread: fc2a5,78d2d637c642a492,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h17g2000yqn.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT ACTRESES HOT VIDEOS DONT MISS YOUTH
Date: Fri, 8 Jul 2011 17:39:52 -0700 (PDT)
Organization: http://groups.google.com
Lines: 52
Message-ID: <ee17fc5d-d870-4c66-944c-162361a27663@h17g2000yqn.googlegroups.com>
NNTP-Posting-Host: 117.199.243.91
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1310171992 30873 127.0.0.1 (9 Jul 2011 00:39:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 9 Jul 2011 00:39:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h17g2000yqn.googlegroups.com; posting-host=117.199.243.91;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.18)
 Gecko/20110614 Firefox/3.6.18,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4823


     VERY VERY VERY HOT HOT HOT ONLY HOT
http://acresesandmodels.blogspot.com/2011/06/real-kiss-hot-videos.html








  HOT HOT LIP KISS
http://hotvideosfreesee.blogspot.com/2010/06/hot-for-youth.html
SUPER HOT PHOTOS
http://hotvideosfreesee.blogspot.com/2010/06/hot-101.html
YOUTH HOT PHOTOS
http://hotvideosfreesee.blogspot.com/2010/06/hot-lip-kiss-12.html
ONLY HOT HOT
http://hotvideosfreesee.blogspot.com/2010/06/supr-hot-never-seen.html
SUPER HOT NEVER SEEN
http://hotvideosfreesee.blogspot.com/2010/06/supe-r-hot-kiss-op.html
HEROINE LIP KISS
http://hotvideosfreesee.blogspot.com/2010/06/kajal-best-lip-kiss.html
```

for mopre hot videos
http://allvideosforyouth.blogspot.com/2010/08/super-hot-lip-kiss.html

jobs
http://alljobsaywhere.blogspot.com/

games

GAME 1
http://freeonlingamesplay.blogspot.com/2010/08/game-1.html
GAME 2
http://freeonlingamesplay.blogspot.com/2010/08/game-2.html

mobile

mobile games free download
http://mobileallinforation.blogspot.com/2010/08/mobile-games-free-download.html

mobile ringtones free download
http://mobileallinforation.blogspot.com/2010/08/mobile-ringtones-free-download.html

From -2721292288249120569
X-Google-Thread: fc2a5,6beae962f3155603
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!tudelft.nl!txtfeed1.tudelft.nl!newsfeed.kpn.net!pfeed08.wxs.nl!amsnews11.chello.com!news.chello.nl.POSTED!not-for-mail
Content-Type: text/plain; charset="ISO-8859-1"
From: "Jan Jongejan, PE1SBG" <Vandaagniet@onbekend.zz>
Date: Sat, 09 Jul 2011 17:14:26 +0200
User-Agent: KNode/4.4.10
Content-Transfer-Encoding: 7Bit
Subject: Re: low intermod RF amplifiers for HF.
Newsgroups: rec.radio.amateur.homebrew
References: <Xns9F18A82DAA644crite40@216.196.97.131>
Followup-To: rec.radio.amateur.homebrew
MIME-Version: 1.0
Message-ID: <2e181$4e1870b4$d55dfeee$20680@news.chello.nl>
X-Complaints-To: abuse@chello.nl

Organization: chello.nl
Lines: 32
NNTP-Posting-Host: 213.93.254.238 (213.93.254.238)
NNTP-Posting-Date: Sat, 09 Jul 2011 17:16:04 +0200
X-Trace: 2e1814e1870b470f85b4b20680
Xref: g2news1.google.com rec.radio.amateur.homebrew:4527

clifford wright wrote:

> Good day!
> Can anyone point me towards a good design for a good RF stage for my
home
> brew HF receiver. I have no less than 6 others hams in my small town
and
> one within 400 metres, so I need good strong signal performance.
> 10 to 15 dB gain would be ample, but I would like to have 50 Ohm
input and
> output impeadances.
> The receiver is an upconverter to 45MHz with a 15 kHz bandwidth xtal
> filter followed by a downconverting mixer to either 9MHz or 10.7 MHz
with
> separate IF strips.
> Tuning is by a PA0KLT synthesiser.
> I have been a bit out of touch lately and am not very up to date with
the
> latest MOSFETS etc. The mixers use the 1992 Ulrich Rohde FET double
> balanced mixer circuit.
> The rest of the sytem was built back in the early 1990's but put to
one
> side until a better frequency sythesiser was available.
> Now it looks like the time to get things moving again!
> Regards Cliff Wright ZL1BDA ex G3NIA.

Why do yo need more amplification in front of your receiver. It's
making more sense to use a tunable preselector.And putting the
amplification in the IF's.

Regards,
Jan PE1SBG

From 9207963389325984409
X-Google-Thread: 241b302a50,6beae962f3155603
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!87.79.20.101.MISMATCH!newsreader4.netcologne.de!
news.netcologne.de!newsfeed.straub-nv.de!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: low intermod RF amplifiers for HF.

Date: Sat, 09 Jul 2011 16:50:11 -0400
Organization: A noiseless patient Spider
Lines: 76
Message-ID: <ivaeu7$156$1@dont-email.me>
References: <Xns9F18A82DAA644crite40@216.196.97.131> <9424ec09-dea2-41c4-9626-93bc88d041e2@v10g2000yqn.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 9 Jul 2011 20:50:16 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="gq5HiEKhe73LA+O1eegyjA";
     logging-data="1190"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19ze6iBSMDDxSg0EJd+gGcQF1upqYfCqss="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.17) Gecko/20110424 Thunderbird/3.1.10
In-Reply-To: <9424ec09-dea2-41c4-9626-93bc88d041e2@v10g2000yqn.googlegroups.com>
Cancel-Lock: sha1:6wAPx7xWt5akOn6NAMk74wQrIDM=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4825

When the band is open with lots of strong signals you don't want a preamp, in fact you might want to switch in an attenuator to reduce the signal strength into the first mixer. The K3 gives the user the option of using a preamp or an attenuator (or BOTH(!) since the preamp has more gain than the attenuator has attenuation so using both just gives less gain). You also have the option of an IF preamp and two gain settings for it.

In the Picstar there is a preamp using 4 parallel jfets that can be switched as an RF preamp or an IF preamp. Since the Picastar's first mixer is used on transmit and receive the preamp is used as an IF preamp (actually postamp) on transmit. The use of the preamp in the receiver for RF gives the best NF, while in the IF stage it gives the best IP. The K3 uses a bipolar transistor for the preamp stage and there can be some debate as to which type of preamp is actually better (probably the bipolar gives the best IP and the parallel fet gives the best NF). I think the fet preamp is preferred on the east side of the 'pond' and the bipolar is favored on the west side.

Other than saving some parts (but costing something for switches) using the same mixer bilaterally is probably not the greatest idea.
Personally, I would use the H-Mode mixer for the receiver and provide the option to switch in a preamp and/or attenuator before the mixer, and an IF preamp after. The RF preamp would use a 2n3886 or 2n5109 bipolar transistor running with as high a collector current as possible for the best IP. The IF preamp might use the parallel fets.
For the transmit mixer I'd use one of the MCL canned diode mixers with a bipolar preamp. The transmit mixer doesn't need to be a high IP type mixer, we can control the signal levels here to get the best results and distribute the power gain in previous and prior stages as required.

On 07/06/2011 07:07 AM, Gian, I7SWX wrote:
> On Jul 4, 6:31 am, clifford wright<c.c.wri...@paradise.net.nz> wrote:

>> Good day!
>> Can anyone point me towards a good design for a good RF stage for my home
>> brew HF receiver. I have no less than 6 others hams in my small town and
>> one within 400 metres, so I need good strong signal performance.
>> 10 to 15 dB gain would be ample, but I would like to have 50 Ohm input and
>> output impeadances.
>> The receiver is an upconverter to 45MHz with a 15 kHz bandwidth xtal filter
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>> Tuning is by a PA0KLT synthesiser.
>> I have been a bit out of touch lately and am not very up to date with the
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>> The rest of the sytem was built back in the early 1990's but put to one
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>> Now it looks like the time to get things moving again!
>> Regards Cliff Wright ZL1BDA ex G3NIA
> Hi Cliff,
>
> Piero and Tom gave you good comments.
>
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> no better solution than the H-Mode Mixer. Having a una upconversion
> 1st IF, your critical point will be the 2nd mixer that will receive
> strong signal amplified by this stage..
>
> If you look at PA3AKE web page you con find info regarding my
> simplified version I7SWX 2T H-Mode Mixer (http://
> martein.home.xs4all.nl/pa3ake/hmode/2t-hmode.html). This has only 2
> transformers and homebrewed, not purchased. You will see the info on
> transformers winding, the one with 5 windings may seem difficult but
> is not. In low bands you may avoid to have a preamp. Look at the G3XJP
> project Pic-A-Star (RSGB RadCom and also reported in the Handbook).
>
> 73
>
> Gian
> I7SWX
>
> www.hurricaneproject.altervista.org

From -1936602617809472574
X-Google-Thread: 241b302a50,c53675ef38822fb1,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!postnews.google.com!e26g2000prf.googlegroups.com!not-for-mail
From: Stuart Longland VK4MSL <me@vk4msl.yi.org>
Newsgroups: rec.radio.amateur.homebrew

Subject: Input power limiting on VHF (2m) linear amplifier
Date: Sun, 10 Jul 2011 02:05:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 53
Message-ID: <f99031d0-0f83-4a3d-bae8-9db14efb317c@e26g2000prf.googlegroups.com>
NNTP-Posting-Host: 203.94.56.252
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1310288729 6673 127.0.0.1 (10 Jul 2011 09:05:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 10 Jul 2011 09:05:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e26g2000prf.googlegroups.com; posting-host=203.94.56.252; posting-account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (X11; Linux x86_64; rv:5.0) Gecko/20110709 Firefox/5.0,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4529

Hi all=85

I've recently purchased a 2m linear amplifier kit to replace a FL-2025 linear that keeled over on me some time back. The set I'll be using it is a Yaesu FT-290R II and I intend to run the set in low power mode (~300mW as best I can tell) to reduce the size of any attenuators in-circuit.

In fact, I intend to make the attenuators switchable; probably a two-port device using SMA connectors, so I can switch to a 5W attenuator if I want to use a handheld into it, or even take it out completely if I plug in a homebrew set of <100mW power.

The power amp module I'm using is the Mitsubishi RA60H1317M, which has a maximum input power limit of 100mW. I've been told 50mW is plenty enough to saturate the output, so likely, I'll be aiming for no more than 50mW. By my reckoning, a 10dB attenuator should give me 30mW. I'm only allowed 30W FM on my grade license, and the set previously only did 25W, so if it's that rather than the full 60W, I'm happy.

I am allowed to use up to 100W SSB, and maybe I might look into eeking out the full 60W PEP there, but that'll be a later project.

One thing I wish to ensure though, is that should the set accidentally get switched to full power, or swapped for another set, that something *other* than the amplifier module or transceiver, blows up. If I smoke an attenuator, big deal. I'd like to ensure however that the fault can be quickly detected and suitable protection is in place.

I'm thinking along the lines of voltage clamping with diodes. Working backwards; 100mW RMS into 50 ohms, gives 2.236Vrms. Converting this to a peak-to-peak voltage, we have 3.162V, which means a voltage swing from -1.581V to +1.581V.

This seems close-enough to the 1.4V forward voltage drop that's typically seen when combining two 1N4148 diodes in series. Two pairs of series-connected diodes in an anti-parallel configuration, would divert the RF power when the peak-to-peak voltage exceeds 2.8V. This translates to an RMS voltage of 1.980V, which across 50ohms gives 78.4mW.

Safely within the amplifier's limits. I'm wondering what the catch is. It looks simple, but I notice people don't do it, which makes me think there's a reason why this is a bad idea, aside from the fact the diodes are going to distort like hell. (And lets face it, the amp will distort if you overdrive it anyway=85)

Apart from use of appropriate attenuator circuits, and making sure you check power levels at all times, is there anything I can do to prevent such accidents?

Regards,
Stuart Longland VK4MSL

From -6102480292229094488
X-Google-Thread: fc2a5,c53675ef38822fb1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news2.google.com!news.glorb.com!xlned.com!
feeder3.xlned.com!amsnews11.chello.com!news.chello.nl.POSTED!not-for-mail
Content-Type: text/plain; charset="UTF-8"
From: "Jan Jongejan, PE1SBG" <Vandaagniet@onbekend.zz>
Date: Sun, 10 Jul 2011 15:02:09 +0200
User-Agent: KNode/4.4.10
Content-Transfer-Encoding: 8Bit
Subject: Re: Input power limiting on VHF (2m) linear amplifier
Newsgroups: rec.radio.amateur.homebrew
References: <f99031d0-0f83-4a3d-bae8-9db14efb317c@e26g2000prf.googlegroups.com>
Followup-To: rec.radio.amateur.homebrew
MIME-Version: 1.0
Message-ID: <c0e68$4e19a332$d55dfeee$8510@news.chello.nl>
X-Complaints-To: abuse@chello.nl
Organization: chello.nl
Lines: 61
NNTP-Posting-Host: 213.93.254.238 (213.93.254.238)
NNTP-Posting-Date: Sun, 10 Jul 2011 15:03:46 +0200
X-Trace: c0e684e19a33270f85b4b08510
Xref: g2news1.google.com rec.radio.amateur.homebrew:4530

Stuart Longland VK4MSL wrote:

> Hi all…

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>
> In fact, I intend to make the attenuators switchable; probably a two-port device using SMA connectors, so I can switch to a 5W attenuator if I want to use a handheld into it, or even take it out completely if I plug in a homebrew set of <100mW power.
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>
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>
> Regards,
> Stuart Longland VK4MSL

How about an automatic PINdiode attennuator. I've seen one in a magazine.
You might find with Google.

Regards,
Jan PE1SBG

```
From 1021883508424832073
X-Google-Thread: fc2a5,c53675ef38822fb1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!feeder.erje.net!
eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: atec77 <atec77@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Input power limiting on VHF (2m) linear amplifier
Date: Mon, 11 Jul 2011 10:29:08 +1000
Organization: A noiseless patient Spider
Lines: 68
Message-ID: <ivdg4k$t0j$2@dont-email.me>
References: <f99031d0-0f83-4a3d-bae8-9db14efb317c@e26g2000prf.googlegroups.com>
<c0e68$4e19a332$d55dfeee$8510@news.chello.nl>
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Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 8bit
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     logging-data="29715"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19oIzCuDSOCO2NdpIDjHHGp"
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Xref: g2news2.google.com rec.radio.amateur.homebrew:4828
```

On 10/07/2011 11:02 PM, Jan Jongejan, PE1SBG wrote:
> Stuart Longland VK4MSL wrote:
>
>> Hi all…
>>
>> I've recently purchased a 2m linear amplifier kit to replace a FL-2025
>> linear that keeled over on me some time back. The set I'll be using
>> it is a Yaesu FT-290R II and I intend to run the set in low power mode
>> (~300mW as best I can tell) to reduce the size of any attenuators in-
>> circuit.
>>
>> In fact, I intend to make the attenuators switchable; probably a two-
>> port device using SMA connectors, so I can switch to a 5W attenuator
>> if I want to use a handheld into it, or even take it out completely if
>> I plug in a homebrew set of<100mW power.
>>
>> The power amp module I'm using is the Mitsubishi RA60H1317M, which has

>> a maximum input power limit of 100mW. I've been told 50mW is plenty
>> enough to saturate the output, so likely, I'll be aiming for no more
>> than 50mW. By my reckoning, a 10dB attenuator should give me 30mW.
>> I'm only allowed 30W FM on my grade license, and the set previously
>> only did 25W, so if it's that rather than the full 60W, I'm happy.
>>
>> I am allowed to use up to 100W SSB, and maybe I might look into eeking
>> out the full 60W PEP there, but that'll be a later project.
>>
>> One thing I wish to ensure though, is that should the set accidentally
>> get switched to full power, or swapped for another set, that something
>> *other* than the amplifier module or transceiver, blows up. If I
>> smoke an attenuator, big deal. I'd like to ensure however that the
>> fault can be quickly detected and suitable protection is in place.
>>
>> I'm thinking along the lines of voltage clamping with diodes. Working
>> backwards; 100mW RMS into 50 ohms, gives 2.236Vrms. Converting this
>> to a peak-to-peak voltage, we have 3.162V, which means a voltage swing
>> from -1.581V to +1.581V.
>>
>> This seems close-enough to the 1.4V forward voltage drop that's
>> typically seen when combining two 1N4148 diodes in series. Two pairs
>> of series-connected diodes in an anti-parallel configuration, would
>> divert the RF power when the peak-to-peak voltage exceeds 2.8V. This
>> translates to an RMS voltage of 1.980V, which across 50ohms gives
>> 78.4mW.
>>
>> Safely within the amplifier's limits. I'm wondering what the catch
>> is. It looks simple, but I notice people don't do it, which makes me
>> think there's a reason why this is a bad idea, aside from the fact the
>> diodes are going to distort like hell. (And lets face it, the amp
>> will distort if you overdrive it anyway…)
>>
>> Apart from use of appropriate attenuator circuits, and making sure you
>> check power levels at all times, is there anything I can do to prevent
>> such accidents?
>>
>> Regards,
>> Stuart Longland VK4MSL
>
> How about an automatic PINdiode attennuator. I've seen one in a magazine.
> You might find with Google.
>
> Regards,
> Jan PE1SBG
Wouldn't a simple power divider do the job ?
  some sort of resistor arrangement acting as a pad

--
X-No-Archive: Yes

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From -4510550828892619423
X-Google-Thread: fc2a5,c53675ef38822fb1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
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news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad!not-for-mail
From: Kickin' Ass and Takin' Names <PopUlist349@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Input power limiting on VHF (2m) linear amplifier
Date: Sun, 10 Jul 2011 22:19:12 -0400
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse(at)newshosting.com
Message-ID: <jcnk175329acgk098688bm9aco0fl7jjoo@4ax.com>
References: <f99031d0-0f83-4a3d-bae8-9db14efb317c@e26g2000prf.googlegroups.com>
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X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 76
Xref: g2news1.google.com rec.radio.amateur.homebrew:4532

On Mon, 11 Jul 2011 10:29:08 +1000, atec77 <atec77@hotmail.com> wrote:

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>>>
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```

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>>>
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>>
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>> You might find with Google.
>>
>> Regards,
>> Jan PE1SBG
>Wouldn't a simple power divider do the job ?
> some sort of resistor arrangement acting as a pad

Or maybe a few feet of lossy coax.

Democrats view George Orwell's novel "1984" as a cautionary tale.

Republicans see the novel as their blueprint.

KATN

From -3042341008557666861
X-Google-Thread: fc2a5,c53675ef38822fb1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet

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X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!postnews.google.com!q34g2000prf.googlegroups.com!not-for-
mail
From: Stuart Longland VK4MSL <me@vk4msl.yi.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Input power limiting on VHF (2m) linear amplifier
Date: Mon, 11 Jul 2011 01:01:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <f2c3c0fe-2086-4b14-bdd1-829af6ab5c71@q34g2000prf.googlegroups.com>
References: <f99031d0-0f83-4a3d-bae8-9db14efb317c@e26g2000prf.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 11 Jul 2011 08:03:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q34g2000prf.googlegroups.com; posting-host=203.94.56.252; posting-
account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
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X-Google-Header-Order: HUALESNKRC
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5.0,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4533

On Jul 10, 11:02=A0pm, "Jan Jongejan, PE1SBG" <Vandaagn...@onbekend.zz>
wrote:
> Stuart Longland VK4MSL wrote:
> > Apart from use of appropriate attenuator circuits, and making sure you
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>
> How about an automatic PINdiode attennuator. I've seen one in a magazine.
> You might find with Google.
>
> Regards,
> Jan PE1SBG

Ahh okay, that's one possibility=85 I could conceivably default to
fairly high attenuation, then ramp it up until it hits the desired
mark.

http://www.rf114.com/lib/download.php?code=3Dtbl_board&seq_name=3Dbseq&seq=
=3D695
is one such circuit I dug up.  I'll have to delve into the theory a
bit more to see if I can make it work.

Thanks
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X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!postnews.google.com!q34g2000prf.googlegroups.com!not-for-mail
From: Stuart Longland VK4MSL <me@vk4msl.yi.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Input power limiting on VHF (2m) linear amplifier
Date: Mon, 11 Jul 2011 01:08:11 -0700 (PDT)
Organization: http://groups.google.com
Lines: 25
Message-ID: <91c7c169-b7a7-4e76-83ed-cd54dc4f6ab8@q34g2000prf.googlegroups.com>
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Mime-Version: 1.0
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NNTP-Posting-Date: Mon, 11 Jul 2011 08:08:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q34g2000prf.googlegroups.com; posting-host=203.94.56.252; posting-account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (X11; Linux x86_64; rv:5.0) Gecko/20110709 Firefox/5.0,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4534

On Jul 11, 12:19=A0pm, Kickin' Ass and Takin' Names
<PopUlist...@hotmail.com> wrote:
> On Mon, 11 Jul 2011 10:29:08 +1000, atec77 <ate...@hotmail.com> wrote:
> >Wouldn't a simple power divider do the job ?
> > =A0some sort of resistor arrangement acting as a pad
>
> Or maybe a few feet of lossy coax.

It would, and I aim to use one of these. The plan is a small module
with two SMA connectors (or similar) plugs in and provides the
attenuation. A resistive pad=85 the amount of coax needed here would
not be practical unless it was *very* lossy. A few feet would be
quite inconvenient, and again, would offer fixed-value attenuation
only, unless I missed something.

However, I can design an attenuator to give me 50mW from 500mW
(-10dB), all will be fine, but the moment 5W gets pumped in, for
whatever reason, up goes the amp in smoke, as it will be 500mW, not

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I'd just like something cheap that can let out the smoke rather than the amplifier module. Smoke isn't a bad thing in itself, as it'll tell me I've done the wrong thing, and if it's a cheap part/module that can be field-replaceable, that is even better. An amplifier module does not classify as a cheap field-replaceable part however.

```
From 3894518112838000412
X-Google-Thread: fc2a5,4d3bfcc5663ed15a,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT SEXY VIDEOS OPEN FOR SEXY GIRLS PHOTOS
Date: Mon, 11 Jul 2011 04:03:23 -0700 (PDT)
Organization: http://groups.google.com
Lines: 59
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 11 Jul 2011 11:03:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 28g2000pry.googlegroups.com; posting-host=117.199.246.200;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
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X-Google-Header-Order: HUALESNKRC
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Xref: g2news2.google.com rec.radio.amateur.homebrew:4832
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ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html

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HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

                     HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
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http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
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http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html






      ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-
questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-
questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html







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NNTP-Posting-Date: Mon, 11 Jul 2011 06:36:47 -0500
Date: Mon, 11 Jul 2011 11:37:15 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.18) Gecko/
20110616 Thunderbird/3.1.11
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Input power limiting on VHF (2m) linear amplifier
References: <f99031d0-0f83-4a3d-bae8-9db14efb317c@e26g2000prf.googlegroups.com>
<c0e68$4e19a332$d55dfeee$8510@news.chello.nl> <ivdg4k$t0j$2@dont-email.me>
<jcnk175329acgk098688bm9aco0fl7jjoo@4ax.com> <91c7c169-b7a7-4e76-83ed-
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In-Reply-To: <91c7c169-b7a7-4e76-83ed-cd54dc4f6ab8@q34g2000prf.googlegroups.com>
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NNTP-Posting-Host: 64.33.199.218
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
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X-Original-Bytes: 3544
Xref: g2news1.google.com rec.radio.amateur.homebrew:4536
```

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> that can be field-replaceable, that is even better. An amplifier
> module does not classify as a cheap field-replaceable part however.

Maybe a simple fuse in-line like they do on signal generators to protect them from people transmitting into them. You can calculate the current for your low power setting by using Ohm's Law and then add say 50% to that value to find the fuse rating. You could test it by hooking up a dummy load in place of the amp and set the radio to low power. The fuse shouldn't blow. Set the radio to the most likely power if you forget to go to lower power and try it. The fuse should blow quickly. They make fuses that look like leaded resistors, so you could probably break the PC trace on the RF input line inside the amp and solder the fuse across the break. You'd have to open the amp to replace, but having it in the trace will keep lead length down.

N0EDV

From 7643371261951714399
X-Google-Thread: fc2a5,c53675ef38822fb1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 11 Jul 2011 06:46:03 -0500
Date: Mon, 11 Jul 2011 11:46:32 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.18) Gecko/20110616 Thunderbird/3.1.11
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Input power limiting on VHF (2m) linear amplifier
References: <f99031d0-0f83-4a3d-bae8-9db14efb317c@e26g2000prf.googlegroups.com> <c0e68$4e19a332$d55dfeee$8510@news.chello.nl> <ivdg4k$t0j$2@dont-email.me> <jcnk175329acgk098688bm9aco0fl7jjoo@4ax.com> <91c7c169-b7a7-4e76-83ed-cd54dc4f6ab8@q34g2000prf.googlegroups.com> <9aCdnRfzwsrSfYfTnZ2dnUVZ_rudnZ2d@bright.net>
In-Reply-To: <9aCdnRfzwsrSfYfTnZ2dnUVZ_rudnZ2d@bright.net>
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Content-Transfer-Encoding: 8bit
Message-ID: <6Yydndu5P4_mf4fTnZ2dnUVZ_h6dnZ2d@bright.net>
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NNTP-Posting-Host: 64.33.199.218

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X-Trace: sv3-pOzMIZl0X1gDt8bw+wKKig17v7Ek8XhoEDEQuJoamkjgGEiRp0JaX/
SakL9LoxnLvktJe+6KViId2lp!
ZMmHLTqiVTA8+DXnM+kqWHoOx0QbDfmJDL7grUNgPRtuG+aE7k0gEaNcpDwEYBL92mSKpyhK1X9w!s/
szhIzmPA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 3980
Xref: g2news1.google.com rec.radio.amateur.homebrew:4537

On 7-11-2011 11:37, Scott wrote:
> On 7-11-2011 08:08, Stuart Longland VK4MSL wrote:
>> On Jul 11, 12:19 pm, Kickin' Ass and Takin' Names
>> <PopUlist...@hotmail.com> wrote:
>>> On Mon, 11 Jul 2011 10:29:08 +1000, atec77<ate...@hotmail.com> wrote:
>>>> Wouldn't a simple power divider do the job ?
>>>> some sort of resistor arrangement acting as a pad
>>>
>>> Or maybe a few feet of lossy coax.
>>
>> It would, and I aim to use one of these. The plan is a small module
>> with two SMA connectors (or similar) plugs in and provides the
>> attenuation. A resistive pad� the amount of coax needed here would
>> not be practical unless it was *very* lossy. A few feet would be
>> quite inconvenient, and again, would offer fixed-value attenuation
>> only, unless I missed something.
>>
>> However, I can design an attenuator to give me 50mW from 500mW
>> (-10dB), all will be fine, but the moment 5W gets pumped in, for
>> whatever reason, up goes the amp in smoke, as it will be 500mW, not
>> 50mW that gets through.
>>
>> I'd just like something cheap that can let out the smoke rather than
>> the amplifier module. Smoke isn't a bad thing in itself, as it'll
>> tell me I've done the wrong thing, and if it's a cheap part/module
>> that can be field-replaceable, that is even better. An amplifier
>> module does not classify as a cheap field-replaceable part however.
>
> Maybe a simple fuse in-line like they do on signal generators to protect
> them from people transmitting into them. You can calculate the current
> for your low power setting by using Ohm's Law and then add say 50% to
> that value to find the fuse rating. You could test it by hooking up a
> dummy load in place of the amp and set the radio to low power. The fuse
> shouldn't blow. Set the radio to the most likely power if you forget to
> go to lower power and try it. The fuse should blow quickly. They make
> fuses that look like leaded resistors, so you could probably break the
> PC trace on the RF input line inside the amp and solder the fuse across
> the break. You'd have to open the amp to replace, but having it in the
> trace will keep lead length down.
>
> N0EDV
>
```

>

Calculating for 50 mW at 50 Ohms, yields about 32 mA. DigiKey (in the USA) sells 50 mA fuses in surface mount packages, which would be ideal for putting across a cut in a circuit trace inside the amp. A 50 mA fuse should blow at about 125 mW.

http://search.digikey.com/scripts/DkSearch/dksus.dll?Detail&name=478-6482-1-ND

N0EDV

```
From -4778447465682706223
X-Google-Thread: fc2a5,c53675ef38822fb1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!b2g2000vbo.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Input power limiting on VHF (2m) linear amplifier
Date: Tue, 12 Jul 2011 04:07:34 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <520736fb-07ef-4c90-ab8d-2523fadcd3c4@b2g2000vbo.googlegroups.com>
References: <f99031d0-0f83-4a3d-bae8-9db14efb317c@e26g2000prf.googlegroups.com>
 <c0e68$4e19a332$d55dfeee$8510@news.chello.nl> <ivdg4k$t0j$2@dont-email.me>
 <jcnk175329acgk098688bm9aco0fl7jjoo@4ax.com> <91c7c169-b7a7-4e76-83ed-
cd54dc4f6ab8@q34g2000prf.googlegroups.com>
 <9aCdnRfzwsrSfYfTnZ2dnUVZ_rudnZ2d@bright.net>
<6Yydndu5P4_mf4fTnZ2dnUVZ_h6dnZ2d@bright.net>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1310468854 9673 127.0.0.1 (12 Jul 2011 11:07:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 12 Jul 2011 11:07:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b2g2000vbo.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.19)
 Gecko/20110420 SeaMonkey/2.0.14,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4835
```

Hey OT:

Fuses are nice, I can tell you from experience, they are slow slow
slow when it comes time to blow, even so called fast blow fuses are
slow.
The real reason to have a fuse is to prevent a fire.

73 OT
de n8zu

hey
>
> Calculating for 50 mW at 50 Ohms, yields about 32 mA. =A0DigiKey (in the
> USA) sells 50 mA fuses in surface mount packages, which would be ideal
> for putting across a cut in a circuit trace inside the amp. =A0A 50 mA
> fuse should blow at about 125 mW.
>
> http://search.digikey.com/scripts/DkSearch/dksus.dll?Detail&name=3D478-..=
.
>
> N0EDV

```
From -1941666024722769034
X-Google-Thread: fc2a5,1ed5ea871754aeff,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q29g2000prj.googlegroups.com!not-for-
mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT FOR TENAGERS
Date: Thu, 14 Jul 2011 04:34:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 28
Message-ID: <c733a59f-bdf9-4779-a356-be3dce35fbe3@q29g2000prj.googlegroups.com>
NNTP-Posting-Host: 117.199.249.51
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1310643386 19516 127.0.0.1 (14 Jul 2011 11:36:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 14 Jul 2011 11:36:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q29g2000prj.googlegroups.com; posting-host=117.199.249.51;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.18)
 Gecko/20110614 Firefox/3.6.18,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4539
```

FOR GOOD JOBS SITES TO YOU
http://goodjobssites.blogspot.com/

FOR HOT PHOTO&VIDEOS
TAMANNA HOT SEXY PHOTOS & VIDEOS
http://southactresstou.blogspot.com/2011/07/tamanna-wallpapers.html
PRANITHA LATEST BEAUTIFUL PHOTOS
http://southactresstou.blogspot.com/2011/06/about-pranitha-praneetha-is-beautiful.html
KAJAL AGARWAL HOT SEXY PHOTOS
http://southactresstou.blogspot.com/2011/05/kajal-agarwal.html
KATRINA KAIF IN BEAUTIFUL RED DRESS
http://southactresstou.blogspot.com/2011/05/katrina-kaif_22.html
GOOD LOOKING DEEPIKA PADUKONE
http://southactresstou.blogspot.com/2011/05/deepika-padukone_22.html
AISHWARYA RAI UNBELIVABLE PHOTO
http://southactresstou.blogspot.com/2011/05/aishwarya-rai.html
TAPSEE RARE PHOTOS
http://southactresstou.blogspot.com/2011/06/tapsee-rare-photos.html

FOR FAST UPDATES IN TELUGU FILM INDUSTRY
http://allyouwants.blogspot.com

```
From -1900794709290216803
X-Google-Thread: fc2a5,39f0b9d41c03c5b2,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 15 Jul 2011 17:36:59 -0500
Date: Fri, 15 Jul 2011 22:37:44 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.18) Gecko/
20110616 Thunderbird/3.1.11
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: DEMI 2304 transverter for sale
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <gf-dnWc5fs2WXL3TnZ2dnUVZ_jIAAAAA@bright.net>
Lines: 9
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
```

X-Trace: sv3-
EONN9tBiuc3KuFg0dJ9I71Kv9AEVDIILzYh5uLRip+iMfX11fKcoufY+RQqdAshVJITgOrTjyQQCq2n!
clM7aVzW8cD+37PsBP5DpEnaIJA2dT3atWgk9wiJu6dgI63PCkAYelsqC1glnckLlfMrrgf66L/d!
1qJYwJUtUw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1435
Xref: g2news2.google.com rec.radio.amateur.homebrew:4837

Need to move this to finance a new project. Set up for 10W in at 144 MHz. Output 1W at 2304 MHz. Works perfectly. My 2304 weak signal source at -85 dBm gives S9 on my I.F. radio. $495 and free shipping to USA only, no International. You can see it along with more details at http://corbenflyer.tripod.com/ on my ham radio page there and it has my email contact info.

Scott
N0EDV

From 2714972102759829822
X-Google-Thread: fc2a5,8685db62c27aa133,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!a2g2000prf.googlegroups.com!not-for-mail
From: bgfbfjgg ojdhdsd <uijsbhsbchsv@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT VIDEOS WEBSITES AND PHOTO SITES
Date: Sun, 17 Jul 2011 07:56:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 59
Message-ID: <56f02cfe-826d-48ab-bf98-ed389bbe89c1@a2g2000prf.googlegroups.com>
NNTP-Posting-Host: 117.199.251.255
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1310914590 3576 127.0.0.1 (17 Jul 2011 14:56:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 17 Jul 2011 14:56:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a2g2000prf.googlegroups.com; posting-host=117.199.251.255;
posting-account=VkOAtQoAAACEcOLC5-eHi1eJjZH4zy38
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.18)
 Gecko/20110614 Firefox/3.6.18,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4541

ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3

http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

From 4151586732847049418
X-Google-Thread: fc2a5,db2b39686ab99eda
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.16.185.51.MISMATCH!isp-post01.iad!news.highwinds-media.com!not-for-mail
Date: Mon, 18 Jul 2011 09:58:32 -0400
From: BigRedTruck <pberry2@cfl.rr.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.18) Gecko/20110617
Lightning/1.0b2 Thunderbird/3.1.11
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where is "on when engine is running" wire in F-150 pickup?
References: <iugt80$djn$1@odin.sdf-eu.org>
In-Reply-To: <iugt80$djn$1@odin.sdf-eu.org>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 39
Message-ID: <4e243c2c$0$30078$9a6e19ea@unlimited.newshosting.com>
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
NNTP-Posting-Host: 184.91.49.79
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:4542

On 06/30/2011 12:14 AM, Myron A. Calhoun wrote:
> I want to put a second battery (for my radios) in my 1994 F-150 pickup
> truck and connect it to the original battery (for the starter and
> engine) with a relay such that the batteries are in parallel when the
> engine is running (and the generator is presumably generating) and are
> separate when the engine is not running. I did this with my previous
> '84 F-100 pickup, but I can't find the "on when engine is running" wire
> in my F-150. Does this wire appear anywhere under the hood?
>
> --W0PBV.

I found one for my fog lights relay power, in the fuse box, mounted on
the driver side inner fender liner. I used a connection going to a relay
that is only on when ignition.

When connecting a second battery, for accessories, that charges when the
engine is on, but can't discharge the main battery, I always use

a the heavy duty RV diode block, with center connector fed by heavy wire (4 to 10 gauge) that connects to the alternator positive post, after separating that charging wire from the alternator.

```
Alt   Pos. charging wire   Battery
+ ------------/ /-----------  +
    cut or disconnect Alternator charging wire,

reroute Alt + wire to Diode pack Center Bolt,
Alt+----------------------|
Orig. battery +------|<  Post >|-----+(new battery)
```

The two 150 Amp to 300 Amp diodes usually are in a heat sink, sold by most auto and RV stores and online dealers, audio stores, or, here:

> http://www.hellroaring.com/

who promotes very low voltage drops, less than .0005 VDC!
Also sells Solid State Relays...

```
From 3395173004134495468
X-Google-Thread: fc2a5,7a09acacb67ee3a7,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!feeder.news-
service.com!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-
mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Ultimate transmatch
Date: Sat, 23 Jul 2011 17:41:19 -0400
Organization: A noiseless patient Spider
Lines: 43
Message-ID: <j0ff62$lu8$1@dont-email.me>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 23 Jul 2011 21:41:22 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="gUROWxuv7binJWnzS/eKqg";
     logging-data="22472"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/touttiLOl1ScFEm/x71e3UvCP1gYrrk0="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.18) Gecko/20110617
Thunderbird/3.1.11
Cancel-Lock: sha1:7W7Vb2mxCJmsscJQwlQy+TZVr/w=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4543
```

Looking through my junkbox I found a roller coil and several larger variable capacitors that I had put away some years ago with the idea of

building a 'transmatch'. I have one 250pf and two 500pf variables, probably in the 300 watt category (which would be fine for me). In looking over QST articles I see three different possible configurations:
1: the Ultimate Transmatch from 1970
2: the SPC transmatch from the late 1970's
3: the "T" network

From what I've read, the old Ultimate circuit had a good wide range and low loss. It's bad point was that it could act as a high pass network instead of a band pass network in some settings. This means it would have very little harmonic suppression. The SPC circuit would always act as a bandpass network, but in some settings it's loss was high. As a result both of these have fallen out of favor these days. The "T" network is what most current antenna tuners are using. Yet the "T" network has two problems: 1: there are many combinations of settings that will yield a good match but many combinations result in high currents or high voltages across the components resulting in arc over or smoke. 2: The "CLC" "T" network always acts as a high pass network so has little harmonic suppression. (The "LCL" "T" network would act as a low pass network, but would require TWO variable inductors and cost quite a bit more).

The reason why the "T" network is acceptable today is that most modern transmitters have enough harmonic suppression that the antenna tuner does not need to add any more. With this in mind, it would also appear that the older Ultimate Transmatch circuit would be acceptable today. It does not have the high loss of the SPC or the 'cranky' behavior of the "T" network.

I think that I can use the two 500pf variables (Johnson 500E20) as the dual section part of the circuit by ganging them with insulated couplings and mounting the capacitors with ceramic standoffs. They are twice as large as what the original circuit called for though. The 250pf (Johnson 250E45) variable will serve as the series capacitor. It also needs to be mounted on ceramic standoffs. The roller coil has one end with wide spacing.
I also have two national 'velvet vernier' dials for the caps and a turns counter dial for the coil.

Has anybody out there experimented with these circuits, what results did you get?

From -2978987332684555270
X-Google-Thread: fc2a5,7a09acacb67ee3a7
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 24 Jul 2011 05:23:10 -0500
From: Edward Feustel <efeustel@hughes.net>

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ultimate transmatch
Date: Sun, 24 Jul 2011 06:23:10 -0400
Message-ID: <k4sn27h1kcqkijkqi53hlnu75baucntqbi@4ax.com>
References: <j0ff62$lu8$1@dont-email.me>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 13
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-4ZzJuxYYJEtjGIa9+IeRXehsQ0s2mRV0vERMhpNOWGhN8PcvboYKBAeOr+HVjy/
fcEfNUqOqNDcNho6!
uo8nL8W1Be3ryLV+z4yafKISnnoOC7+3uTpFglbiWM8FR1xz+HHPKndZQmMM0IdAyKXSzkg=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1487
Xref: g2news2.google.com rec.radio.amateur.homebrew:4841

You left out the most important part: What kind of antennas are you
trying to feed? Are they resonant? Just centerfeds? Longwire?
Multi-band? Coax fed? Balanced Fed?

IMHO, these are the factors that should be considered when you
choose a network before you build the antenna tuner.

You may want to read the ARRL Antenna Tuner Book (New) to
get an idea of what commercial firms are building and their
efficiencies. It is very revealing!
73,

Ed, N5EI

From 3584569491501645528
X-Google-Thread: fc2a5,589c2ed3433cec68,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!hitnews.eu!
s09-10.readnews.com!unm2.readnews.com.POSTED!not-for-mail
X-Trace: DXC=`>]RkJ6E;4hf4S`_Ja4HPiG^cGF?
V7mId]G0e@Sk_WTbT6RVf`ncYmf_EZTl5L<4XefXAY5lB834okS>l99EkTlcXRYFSBmc]_mM5AlBnh`HJd
X-Complaints-To: abuse@blocknews.net
From: "radio rambo" <radiorambo@nomail.invalid>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <4ihtim.9lo.19.1@news.alt.net>
<4e2c35af$0$25685$a8266bb1@newsreader.readnews.com> <e0561b74-199f-42a8-91cb-

b122fcd5f73d@g16g2000yqg.googlegroups.com>
Subject: Re: KD8CTL GOT FAT
Date: Sun, 24 Jul 2011 14:55:45 -0400
Organization: can ya hear me now?
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6109
X-RFC2646: Format=Flowed; Original
Lines: 8
Message-ID: <4e2c6b9d$0$31321$a8266bb1@newsreader.readnews.com>
NNTP-Posting-Host: f751d5af.newsreader.readnews.com
Xref: g2news2.google.com rec.radio.amateur.policy:34411
rec.radio.amateur.homebrew:4842 rec.radio.amateur.misc:6650

"kb9rqz" wrote in message
http://kd8ctl.blogspot.com/

WOW! Gav has put on a few tons!

From -6738435705020244055
X-Google-Thread: fc2a5,7a09acacb67ee3a7
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ultimate transmatch
Date: Sun, 24 Jul 2011 15:18:42 -0400
Organization: A noiseless patient Spider
Lines: 62
Message-ID: <j0hr6j$e74$1@dont-email.me>
References: <j0ff62$lu8$1@dont-email.me>
<k4sn27h1kcqkijkqi53hlnu75baucntqbi@4ax.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sun, 24 Jul 2011 19:18:44 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="gUROWxuv7binJWnzS/eKqg";
logging-data="14564"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX19MvgerYEvQ1ldPgYsD/J5BVH/Sg/XXC84="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.18) Gecko/20110617
Thunderbird/3.1.11
In-Reply-To: <k4sn27h1kcqkijkqi53hlnu75baucntqbi@4ax.com>
Cancel-Lock: sha1:pKzuxWGesxUD3890Q+H99w+EddQ=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4843

For the most part I will be using coax fed antennas.

There is an idea I've been thinking about and I wonder if it will work. There is a myth that high SWR on coax will produce a high line loss. Most of the loss involved with having a high SWR is in the coupling to the receiver / transmitter, not so much in the transmission line itself, at least not at HF. So long as a high voltage is no present on the transmission line (arc over) or a very high current (resistive loss), and the dielectric material does not introduce loss at the frequency involved common 1/2" dia coax should work fine as an unbalanced feed line even at a high swr ratio.

Common Ferrite core balums do not usually work well at impedances above 50/75 ohms input. Using them to convert an unbalanced transmatch to a balanced one AT THE OUTPUT is usually not a good idea. (Insulate the transmatch from ground and put the balum at the input works better).
A "choke" balum made by winding 10 turns or so of coax in a loop about a foot or so in diameter has lower loss than a ferrite core balum, no core heating.

So my idea was to run a length of coax from the shack through the attic crawl space and up to the roof (though a vent turbine). On the roof would be a coax choke balum connected to 450 ohm twinlead "open wire" line. This would connect to a "multiband" dipole. There is no way I can run the open wire line from the shack up to the roof, this stuff must be run 'in the clear' anyway. Coax being an unbalanced line is not affected by it's surroundings.

I've done some more reading, and both the 'ultimate' circuit and the SPC circuit are modifications of the 'CLC T' network, neither one of them actually being an improvement of the latter. Most of todays antenna tuners are 'T' networks, the remainder are 'L' networks with the C being switchable between the input and output. Also the 'C' can be series or parallel. (The series-C 'L' network is actually 1/2 of a 'T' network, just as the parallel-C 'L' network is actually 1/2 of a Pi network).

Maybe I should have jumper plugs and jacks in the circuit so I can quickly re-wire it to any of the above configurations (T L, C and Pi with both series and shunt C).

BTW the 500pf variables I have measure out at about 488pf and a minimum C of 19pf which is over 20 to 1 in range. The 250pf variable I have has a minimum C of about 30pf, so the 500pf units will actually work better on 10 meters than the smaller one. Of course their voltage rating is 'only' about 1.5-2 KV while the larger is about 3.5KV, but this isn't going to be a full gallon tuner.

On 07/24/2011 06:23 AM, Edward Feustel wrote:
> You left out the most important part: What kind of antennas are you
> trying to feed? Are they resonant? Just centerfeds? Longwire?
> Multi-band? Coax fed? Balanced Fed?
>

```
> IMHO, these are the factors that should be considered when you
> choose a network before you build the antenna tuner.
>
> You may want to read the ARRL Antenna Tuner Book (New) to
> get an idea of what commercial firms are building and their
> efficiencies.  It is very revealing!
> 73,
>
> Ed, N5EI
```

```
From -3514099153638140468
X-Google-Thread: fc2a5,7a09acacb67ee3a7
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 24 Jul 2011 16:35:19 -0500
Reply-To: "Ralph Mowery" <rmowery28146@earthlink.net>
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <j0ff62$lu8$1@dont-email.me>
<k4sn27h1kcqkijkqi53hlnu75baucntqbi@4ax.com> <j0hr6j$e74$1@dont-email.me>
Subject: Re: Ultimate transmatch
Date: Sun, 24 Jul 2011 17:35:24 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <4e6dnQxictmKDbHTnZ2dnUVZ_uWdnZ2d@earthlink.com>
Lines: 34
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.148.196.49
X-Trace: sv3-uGIyP8Y+pjoi4n7EOLxxGEW+sIAhdl+5DmioBqoVSqkAEABMq58vv8vePm+EwBN//z/
wbMcQY6AHR+q!
DxGgXaBu3pNg+V3Cx4Mxms5d2q0UyL0groMxZU+ereWXSld1v9+kjWujX7FK5upGb9AqhITCKUL9!
uXlEQSSJzpapIEV7ycalEgciVWdfXEz7sbRrhoQ=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2886
Xref: g2news1.google.com rec.radio.amateur.homebrew:4547
```

"Kenneth Scharf" <wa2mze@bellsouth.net> wrote in message
news:j0hr6j$e74$1@dont-email.me...

```
> For the most part I will be using coax fed antennas.
>
```

> There is an idea I've been thinking about and I wonder if it will work.
> There is a myth that high SWR on coax will produce a high line loss. Most
> of the loss involved with having a high SWR is in the coupling to the
> receiver / transmitter, not so much in the transmission line itself, at
> least not at HF. So long as a high voltage is no present on the
> transmission line (arc over) or a very high current (resistive loss), and
> the dielectric material does not introduce loss at the frequency involved
> common 1/2" dia coax should work fine as an unbalanced feed line even at a
> high swr ratio.
>

There is no myth that high swr can cause high loss, especially in coax.

It depends on how much loss the line has and how much the swr actually is. If you only have a db or so of loss, then a 5:1 swr is not that much of an issue. If you have a line loss of 2 or 3 db or more and then have a 5:1 swr or higher, you can loose 3 db or more in the feedline in addition to the actual loss in the feedline at a matched load

Below 440 there is very little loss in the dielectric, but mostly in the center wire of the coax and then usually the shield. As the swr goes up, the IR loss of the conductors goes up.

As far as the coupling loss to the transmitter, most modern transceivers are set for a 50 ohm load and will cut the power back or not couple very well to the transmission line. Even most of the built in tuners are only good for about a 3:1 swr.

```
From -4232932731567616784
X-Google-Thread: 10bf43,5690964a09f5e1b8
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,589c2ed3433cec68
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,589c2ed3433cec68
X-Google-NewGroupId: yes
X-Google-Attributes:
gide721ae2bf6,gid241b302a50,gida3e752f117,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!r18g2000vbs.googlegroups.com!not-for-
mail
From: kb9rqz <mark@kb9rqz.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: get kelp
Date: Sun, 24 Jul 2011 15:16:48 -0700 (PDT)
Organization: http://groups.google.com
Lines: 1
Message-ID: <ca3b4069-d5f6-4ec9-80a2-613f7eed58b9@r18g2000vbs.googlegroups.com>
References: <4ihtim.9lo.19.1@news.alt.net>
<4e2c35af$0$25685$a8266bb1@newsreader.readnews.com>
```

```
 <e0561b74-199f-42a8-91cb-b122fcd5f73d@g16g2000yqg.googlegroups.com>
<4e2c6b9d$0$31321$a8266bb1@newsreader.readnews.com>
NNTP-Posting-Host: 69.19.14.16
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1311545808 21173 127.0.0.1 (24 Jul 2011 22:16:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 24 Jul 2011 22:16:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r18g2000vbs.googlegroups.com; posting-host=69.19.14.16; posting-
account=3ePh8QoAAABpiNDYEy2_bPCVy_4Crs1n
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLUCHFN
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
 Trident/4.0; .NET CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152;
 .NET CLR 3.5.30729),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.policy:31353
rec.radio.amateur.homebrew:4548 rec.radio.amateur.misc:6397

On Jul 24, 2:55=A0pm, "radio rambo" <radiora...@


From -2952622742566118903
X-Google-Thread: fc2a5,7ae5f1a892c164ee,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r5g2000prf.googlegroups.com!not-for-
mail
From: tejaswini <teju9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: `HOT SEXY PHOTOS&VIDEOS****
Date: Mon, 25 Jul 2011 02:22:11 -0700 (PDT)
Organization: http://groups.google.com
Lines: 30
Message-ID: <79126e42-eca4-45c3-b861-a7fbf5deb1a7@r5g2000prf.googlegroups.com>
NNTP-Posting-Host: 117.199.245.98
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1311585732 1738 127.0.0.1 (25 Jul 2011 09:22:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 25 Jul 2011 09:22:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r5g2000prf.googlegroups.com; posting-host=117.199.245.98; posting-
account=6xaZwQoAAACqKFwd8FfwWgPIkcC-Icg-
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.18)
 Gecko/20110614 Firefox/3.6.18,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4846
```

```
                FOR GOOD JOBS SITES TO YOU
                 http://goodjobssites.blogspot.com/

                                FOR HOT PHOTO&VIDEOS

                             KATRINA KAIF RARE PHOTOS
http://southactresstou.blogspot.com/2011/07/katrina-kaif-wallpapers.html
                    TAMANNA HOT SEXY PHOTOS & VIDEOS
http://southactresstou.blogspot.com/2011/07/tamanna-wallpapers.html
                      PRANITHA LATEST BEAUTIFUL PHOTOS
http://southactresstou.blogspot.com/2011/06/about-pranitha-praneetha-is-
beautiful.html
                       KAJAL AGARWAL HOT SEXY PHOTOS
http://southactresstou.blogspot.com/2011/05/kajal-agarwal.html
                     KATRINA KAIF IN BEAUTIFUL RED DRESS
http://southactresstou.blogspot.com/2011/05/katrina-kaif_22.html
                        GOOD LOOKING DEEPIKA PADUKONE
http://southactresstou.blogspot.com/2011/05/deepika-padukone_22.html
                  AISHWARYA RAI UNBELIVABLE PHOTO
http://southactresstou.blogspot.com/2011/05/aishwarya-rai.html




        FOR FAST UPDATES IN TELUGU FILM INDUSTRY
                http://allyouwants.blogspot.com





From 600949156219717397
X-Google-Thread: fc2a5,48d689cfd679e1d9,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g5g2000prn.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT SEXY VIDEOS PRESENT MASLA PHOTOS FOR ADULTS
Date: Mon, 25 Jul 2011 17:49:14 -0700 (PDT)
Organization: http://groups.google.com
Lines: 59
Message-ID: <1ab7599b-a30f-44e0-9e7a-30c968d9ea6a@g5g2000prn.googlegroups.com>
NNTP-Posting-Host: 117.199.244.34
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1311641479 16103 127.0.0.1 (26 Jul 2011 00:51:19 GMT)
X-Complaints-To: groups-abuse@google.com
```

```
NNTP-Posting-Date: Tue, 26 Jul 2011 00:51:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g5g2000prn.googlegroups.com; posting-host=117.199.244.34; posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.18)
 Gecko/20110614 Firefox/3.6.18,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4550
```

ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

---

```
From 3603416986278629412
X-Google-Thread: fc2a5,6beae962f3155603
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!feeder1.news.elisa.fi!uutiset.elisa.fi!7564ea0f!not-for-mail
From: KBa <kba@nic.fi>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.2.18) Gecko/20110616 Thunderbird/3.1.11
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: low intermod RF amplifiers for HF.
References: <Xns9F18A82DAA644crite40@216.196.97.131>
In-Reply-To: <Xns9F18A82DAA644crite40@216.196.97.131>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 37
Message-ID: <3iFXp.62944$mX5.20181@uutiset.elisa.fi>
Date: Tue, 26 Jul 2011 23:18:00 +0300
NNTP-Posting-Host: 85.78.174.22
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1311711487 85.78.174.22 (Tue, 26 Jul 2011 23:18:07 EEST)
NNTP-Posting-Date: Tue, 26 Jul 2011 23:18:07 EEST
Organization: Elisa Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:4848
```

On 4.7.2011 7:31, clifford wright wrote:

> Good day!
> Can anyone point me towards a good design for a good RF stage for my home
> brew HF receiver. I have no less than 6 others hams in my small town and
> one within 400 metres, so I need good strong signal performance.

> 10 to 15 dB gain would be ample, but I would like to have 50 Ohm input and
> output impeadances.
> The receiver is an upconverter to 45MHz with a 15 kHz bandwidth xtal filter
> followed by a downconverting mixer to either 9MHz or 10.7 MHz with separate
> IF strips.
> Tuning is by a PA0KLT synthesiser.
> I have been a bit out of touch lately and am not very up to date with the
> latest MOSFETS etc. The mixers use the 1992 Ulrich Rohde FET double
> balanced mixer circuit.
> The rest of the sytem was built back in the early 1990's but put to one
> side until a better frequency sythesiser was available.
> Now it looks like the time to get things moving again!
> Regards Cliff Wright ZL1BDA ex G3NIA.

Hello

Some late thoughts about amplifier candidate...
One simple but low cost one could be push-pull Jfet amplifier using
two J309 in parallel, gate grounded. Input can matched to 50 ohm using
1:0.7 input transformer (fets do have lower input impedance than 50 ohm
) and output at drains can be 4:1 balanced transformer.
Spice analysis shows around 9dB gain and very good wide-band input
matching, probably noise figure is also not much greater than one fet
alone, actually it should be lower. One thing needed is quite equal
fets, Idss and Vp, four matched fets should be still easy to find.
Sorry don't have more exact figures to give, but this could be one
candidate to evaluate.

br Kari B
  Oh6io

From -9159069541917241168
X-Google-Thread: fc2a5,dc0f1023a345920a,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j15g2000yqf.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: 1448 TTL to rs232 driver problem
Date: Tue, 26 Jul 2011 13:34:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <50ac723a-b303-454e-810d-615bcb6e7631@j15g2000yqf.googlegroups.com>
NNTP-Posting-Host: 71.68.19.231
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1311713930 5050 127.0.0.1 (26 Jul 2011 20:58:50 GMT)
X-Complaints-To: groups-abuse@google.com

```
NNTP-Posting-Date: Tue, 26 Jul 2011 20:58:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j15g2000yqf.googlegroups.com; posting-host=71.68.19.231; posting-
account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:5.0) Gecko/20100101 Firefox/
5.0,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4849
```

30 year old piece of equipment operating pretty much flawlessly for
that entire period. VCC and VEE on the 1448 is +/- 15 volts and the
chip is overheating..... even with inputs and outputs disconnected the
chip still overheats(130 F). I noticed that the manufacturer's sets
the MAX power supply voltages at +/- 15 and understand this was
probably designed on the hairy edge of failure but like I said its
been working for 30 years and replacement chips work no better, what
gives. Power supply can not be adjusted and there are other chips on
the board that require the +- 15. d BTW cooling the chip makes it
work. operating the chip from an external +- 12V power supply makes it
work but modifying the circuit may not be an option. I saw where there
are some CMOS versions of the 1488, I was wondering if they would
handle the +- 15 volts better.

TIA
Jimmie

```
From 6964069749196582380
X-Google-Thread: fc2a5,dc0f1023a345920a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!feeder.news-
service.com!cyclone01.ams2.highwinds-media.com!news.highwinds-media.com!voer-
me.highwinds-media.com!npeersf01.ams.highwinds-media.com!newsfe26.ams2.POSTED!
00000000!not-for-mail
Reply-To: <whatshisname@invalid.com>
From: <whatshisname@invalid.com>
Newsgroups: rec.radio.amateur.homebrew
References: <50ac723a-b303-454e-810d-615bcb6e7631@j15g2000yqf.googlegroups.com>
In-Reply-To: <50ac723a-b303-454e-810d-615bcb6e7631@j15g2000yqf.googlegroups.com>
Subject: Re: 1448 TTL to rs232 driver problem
Lines: 20
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
```

```
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18463
Message-ID: <yJIXp.20359$Ah6.16245@newsfe26.ams2>
NNTP-Posting-Host: 82.31.140.80
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe26.ams2 1311725534 82.31.140.80 (Wed, 27 Jul 2011 00:12:14 UTC)
NNTP-Posting-Date: Wed, 27 Jul 2011 00:12:14 UTC
Organization: virginmedia.com
Date: Wed, 27 Jul 2011 01:12:08 +0100
Xref: g2news2.google.com rec.radio.amateur.homebrew:4850
```

30 year old piece of equipment operating pretty much flawlessly for
that entire period. VCC and VEE on the 1448 is +/- 15 volts and the
chip is overheating..... even with inputs and outputs disconnected the
chip still overheats(130 F). I noticed that the manufacturer's sets
the MAX power supply voltages at +/- 15 and understand this was
probably designed on the hairy edge of failure but like I said its
been working for 30 years and replacement chips work no better, what
gives. Power supply can not be adjusted and there are other chips on
the board that require the +- 15. d BTW cooling the chip makes it
work. operating the chip from an external +- 12V power supply makes it
work but modifying the circuit may not be an option. I saw where there
are some CMOS versions of the 1488, I was wondering if they would
handle the +- 15 volts better.

TIA
Jimmie

I would hang a small PC fan in there, and call it a modification

```
From 9212258065027839425
X-Google-Thread: 241b302a50,dc0f1023a345920a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 27 Jul 2011 06:20:54 -0500
Date: Wed, 27 Jul 2011 11:21:09 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.18) Gecko/
20110616 Thunderbird/3.1.11
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 1448 TTL to rs232 driver problem
References: <50ac723a-b303-454e-810d-615bcb6e7631@j15g2000yqf.googlegroups.com>
In-Reply-To: <50ac723a-b303-454e-810d-615bcb6e7631@j15g2000yqf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
```

Content-Transfer-Encoding: 7bit
Message-ID: <fJadnXcrSq4LabLTnZ2dnUVZ_rudnZ2d@bright.net>
Lines: 38
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-cZ2A0WdoDol5ALiznf/ZXonlttEq+CXYSdC/h0bOgsZ7Uk6IXdQ+dk5FZ9XL/
8ZebJr0SjQEzM2hbBA!uL52mzfy0Vv53Q3ghDyvWBp5SsMGyDFiW/
NjJ13AGDZd9d7lCJTPCXpEL257SM3g1HvsENCevEKt!d3l06KGHog==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 3025
Xref: g2news2.google.com rec.radio.amateur.homebrew:4851

On 7-26-2011 20:34, JIMMIE wrote:

> 30 year old piece of equipment operating pretty much flawlessly for
> that entire period. VCC and VEE on the 1448 is +/- 15 volts and the
> chip is overheating..... even with inputs and outputs disconnected the
> chip still overheats(130 F). I noticed that the manufacturer's sets
> the MAX power supply voltages at +/- 15 and understand this was
> probably designed on the hairy edge of failure but like I said its
> been working for 30 years and replacement chips work no better, what
> gives. Power supply can not be adjusted and there are other chips on
> the board that require the +- 15. d BTW cooling the chip makes it
> work. operating the chip from an external +- 12V power supply makes it
> work but modifying the circuit may not be an option. I saw where there
> are some CMOS versions of the 1488, I was wondering if they would
> handle the +- 15 volts better.
>
>
> TIA
> Jimmie

Can you cut the circuit trace of the voltages (Vcc, Vee) feeding the IC and strap in a pair of diodes (in series) such as IN914 types in each supply line? Each diode drops about .7V, so you would end up with about +/- 13.5V at the IC. If you want even lower voltage at the IC, add in another diode or two in each supply line. Ensure proper polarity...in the Vcc supply lines, the diode cathodes would go toward the IC and the Vee diodes would have the anodes toward the IC. Just a thought. Or, if you know how much current the device draws through each supply (Vcc and Vee), you could place a single zener diode in series with the supply voltages to the IC and the polarities would be opposite of using 1N914 diodes. Just find a zener of about 2.5-3V that is rated at about twice the current the IC draws from each supply.

N0EDV

From -7484537634782758370
X-Google-Thread: 241b302a50,dc0f1023a345920a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!u28g2000prm.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 1448 TTL to rs232 driver problem
Date: Wed, 27 Jul 2011 11:42:36 -0700 (PDT)
Organization: http://groups.google.com
Lines: 25
Message-ID: <60413987-14af-4ca4-a8ae-2854626bacd3@u28g2000prm.googlegroups.com>
References: <50ac723a-b303-454e-810d-615bcb6e7631@j15g2000yqf.googlegroups.com>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1311792156 18817 127.0.0.1 (27 Jul 2011 18:42:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Jul 2011 18:42:36 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u28g2000prm.googlegroups.com; posting-host=99.65.160.151; posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:5.0) Gecko/20110706
 Firefox/5.0 SeaMonkey/2.2,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4852

On Jul 26, 4:34=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> 30 year old piece of equipment operating pretty much flawlessly for
> that entire period. VCC and VEE on the 1448 is +/- 15 volts and the
> chip is overheating..... even with inputs and outputs disconnected the
> chip still overheats(130 F). I noticed that the manufacturer's sets
> the MAX =A0power supply voltages at +/- 15 and understand this was
> probably designed on the hairy edge of failure but like I said its
> been working for 30 years and replacement chips work no better, what
> gives. Power supply can not be adjusted and there are other chips on
> the board that require the +- 15. d BTW cooling the chip makes it
> work. operating the chip from an external +- 12V power supply makes it
> work but modifying the circuit may not be an option. I saw where there
> are some CMOS versions of the 1488, I was wondering if they would
> handle the +- 15 volts better.
>
> TIA
> Jimmie

Hey OT

cmos will handle +- 15volts but runs hot, if it's flawless rail to
rail you won't have a problem they will run hotter if not taken all
the way down town.

73 OM
de n8zu

```
From -1875079703089783019
X-Google-Thread: 241b302a50,dc0f1023a345920a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r5g2000prf.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 1448 TTL to rs232 driver problem
Date: Wed, 27 Jul 2011 12:10:19 -0700 (PDT)
Organization: http://groups.google.com
Lines: 9
Message-ID: <c8117c34-6613-4880-89e0-7a15f2f1de97@r5g2000prf.googlegroups.com>
References: <50ac723a-b303-454e-810d-615bcb6e7631@j15g2000yqf.googlegroups.com>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1311793819 1085 127.0.0.1 (27 Jul 2011 19:10:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Jul 2011 19:10:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r5g2000prf.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:5.0) Gecko/20110706
 Firefox/5.0 SeaMonkey/2.2,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4853
```

While I still remember with the inputs unloaded the outputs won't go
to the rail so both transistors are half way on, thus consuming loads
of power. And creating high Pd.

To test how hot it gets you should take the inputs to - or + and leave
them there.

73
de n8zu

```
From -97347317526382878
X-Google-Thread: 241b302a50,dc0f1023a345920a
X-Google-Attributes: gid241b302a50,public,usenet
```

```
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q29g2000prj.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 1448 TTL to rs232 driver problem
Date: Wed, 27 Jul 2011 11:58:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 9
Message-ID: <3f10c24a-429e-4672-bcb5-1adf1aae740e@q29g2000prj.googlegroups.com>
References: <50ac723a-b303-454e-810d-615bcb6e7631@j15g2000yqf.googlegroups.com>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1311794688 9319 127.0.0.1 (27 Jul 2011 19:24:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Jul 2011 19:24:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q29g2000prj.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 6.1; rv:5.0) Gecko/20110706
 Firefox/5.0 SeaMonkey/2.2,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4854



 hey OT

The National DS14c88 is the cmos replacement the specs take it to
+-13volts, at 15volts it draw more current so the loads on the output
have to be low enough to stay below the Pd of I think it was 1300mw
73 OM
de n8zu



From 4588643935768705035
X-Google-Thread: fc2a5,6d25d11d4a56666b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 24 Apr 2011 07:04:48 -0500
Date: Sun, 24 Apr 2011 12:04:47 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
MIME-Version: 1.0
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My latest homebrew project....
References: <iodibe$t5j$1@dont-email.me> <iovc1i$m1a$1@dont-email.me>
In-Reply-To: <iovc1i$m1a$1@dont-email.me>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <05KdnT_EZJR9jCnQnZ2dnUVZ_sCdnZ2d@bright.net>
Lines: 10
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
onB0iILi+ba8NlcNI2sJXD2FZkOqaBAeFKLyPdkehNEg38nyHCE66wv0Fy501RxFdK4IwM2rRgZeGSk!
QAAaiV6kVFqRw/zD8KE8SycSD4nqKOk5OXumalGKaScc4UD5TI93EKQoPAS9yUVXqr5hzcIWh0nt!
0dZPIFDvJA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1326
Xref: g2news1.google.com rec.radio.amateur.homebrew:4402

On 4-23-2011 20:15, Kenneth Scharf wrote:
>
> Link to photo:
> http://scharkalvin.weebly.com/hb100-home-brew-transceiver-front-panel.html


Lookin' gooood!  :)






From -3407843557994605754
X-Google-Thread: fc2a5,b472ef92d0d11770
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l2g2000prg.googlegroups.com!not-for-
mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ADULT SEX PHOTOS
Date: Sun, 24 Apr 2011 07:10:25 -0700 (PDT)
Organization: http://groups.google.com
Lines: 25
Message-ID: <20f0ed86-2557-4f4f-b3dc-286c8e26ab78@l2g2000prg.googlegroups.com>
NNTP-Posting-Host: 117.199.247.155
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1303654225 15688 127.0.0.1 (24 Apr 2011 14:10:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 24 Apr 2011 14:10:25 +0000 (UTC)
```

```
Complaints-To: groups-abuse@google.com
Injection-Info: l2g2000prg.googlegroups.com; posting-host=117.199.247.155;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4700


                 hot katrina kaif wallpapers
http://cinyworld96.blogspot.com/2011/03/katrina-kaif.html
              namitha hot sexy stills
http://cinyworld96.blogspot.com/2011/04/namitha.html
              deepika padukone new stills
http://cinyworld96.blogspot.com/2011/03/deepika-padukone.html
              hot tamanna sexy wallpapers
http://cinyworld96.blogspot.com/2011/04/tamanna.html
                beautiful aishwariya rai
http://cinyworld96.blogspot.com/2011/03/aishwariya-rai.html
                 diya mirza sexy photos
http://cinyworld96.blogspot.com/2011/03/diya-mirza.html
               stunning beauty sneha
http://cinyworld96.blogspot.com/2011/03/sneha.html
                unbelivable iliyana photos
http://cinyworld96.blogspot.com/2011/03/iliyana.html
              priyamani beautiful stills
http://cinyworld96.blogspot.com/2011/03/priyamani.html
               pranitha in half saree
http://cinyworld96.blogspot.com/2011/03/pranitha.html
              richa saree stills
http://cinyworld96.blogspot.com/2011/03/richa-gangopadyay.html
   new hot sruthi hassan stills
http://cinyworld96.blogspot.com/2011/03/shruthi-hassan.html


From -5098070134701424291
X-Google-Thread: fc2a5,6d400c9d1fb03c91,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!18g2000prd.googlegroups.com!not-for-
mail
From: Grid Rock <gridrock214@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Great Property For Sale!!!
Date: Mon, 25 Apr 2011 10:33:27 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <bc1019a1-b178-4095-a74b-9759c2c8e513@18g2000prd.googlegroups.com>
NNTP-Posting-Host: 125.60.240.224
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1303753343 9128 127.0.0.1 (25 Apr 2011 17:42:23 GMT)
```

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 25 Apr 2011 17:42:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 18g2000prd.googlegroups.com; posting-host=125.60.240.224; posting-
account=tjQbCwoAAACWenj8xV9LH71qfUK2j_t1
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US)
 AppleWebKit/534.16 (KHTML, like Gecko) Chrome/10.0.648.205 Safari/
534.16,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4701
```

4227 S Benton Avenue, Kansas City, MO 64130 -- Jackson County

Property Characteristics:
Neighborhood: Oak Park Southwest
3 Br/1 Bath
1392 SF/ Single Family
Built: 1914
Sales Price: $33,500.00

Main Floor - Entry, Living/Dining, Kitchen, Bedroom 1
Upper Floor - Bedroom 2, Master Bedroom, Sunroom
Basement - (Unfinished) Utility Space

Construction: Wood Frame
Roof: Composite Shingle Basement: Stone
Utilities: City Heating: Forced Air/Fireplace
Cooling: Air Conditioner (new), Ceiling Fan

We also have properties below Market Value that we need to sell quickly. You may use it to rent out or to improve and resell--it's up to you. It is priced for a quick close with cash or hard money.

If you're interested, please visit the website below:

http://gridrockhousedeals.com

We also have great turnkey cashflow properties in other market areas. These properties sell quickly, so click or call us now!

Please contact
Tim-602.539.9716 or
Tina-816.339.4939 at any time of the day or
Email gridrock214@gmail.com

```
From 4167329049085188737
X-Google-Thread: fc2a5,e61d0a4f35f6297,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k3g2000prl.googlegroups.com!not-for-
mail
```

```
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT HOT HOT
Date: Mon, 25 Apr 2011 22:07:02 -0700 (PDT)
Organization: http://groups.google.com
Lines: 28
Message-ID: <118e2757-f4e7-4b37-8c16-1cda69ca3f75@k3g2000prl.googlegroups.com>
NNTP-Posting-Host: 117.199.240.196
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1303794423 21583 127.0.0.1 (26 Apr 2011 05:07:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Apr 2011 05:07:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k3g2000prl.googlegroups.com; posting-host=117.199.240.196;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4702

          kajal agarwal in mr perfect hot stills
http://cinyworld96.blogspot.com/2011/04/kajal-agarwal.html
               asin hot photos & videos
http://cinyworld96.blogspot.com/2011/04/asin.html
                 hot katrina kaif wallpapers
http://cinyworld96.blogspot.com/2011/03/katrina-kaif.html
              namitha hot sexy stills
http://cinyworld96.blogspot.com/2011/04/namitha.html
              deepika padukone new stills
http://cinyworld96.blogspot.com/2011/03/deepika-padukone.html
              hot tamanna sexy wallpapers
http://cinyworld96.blogspot.com/2011/04/tamanna.html
                beautiful aishwariya rai
http://cinyworld96.blogspot.com/2011/03/aishwariya-rai.html
                 diya mirza sexy photos
http://cinyworld96.blogspot.com/2011/03/diya-mirza.html
               stunning beauty sneha
http://cinyworld96.blogspot.com/2011/03/sneha.html
                unbelivable iliyana photos
http://cinyworld96.blogspot.com/2011/03/iliyana.html
              priyamani beautiful stills
http://cinyworld96.blogspot.com/2011/03/priyamani.html
               pranitha in half saree
http://cinyworld96.blogspot.com/2011/03/pranitha.html
              richa saree stills
http://cinyworld96.blogspot.com/2011/03/richa-gangopadyay.html
   new hot sruthi hassan stills
http://cinyworld96.blogspot.com/2011/03/shruthi-hassan.html


From -1875315917198563394
X-Google-Thread: fc2a5,e6dc33a549266e61,start
```

X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!r35g2000prj.googlegroups.com!not-for-mail
From: bgfbfjgg ojdhdsd <uijsbhsbchsv@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT PEOPLE HOT AND SEXY VIDEOS FOR U SEE AND ENJOY
Date: Mon, 25 Apr 2011 22:30:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <eb5407d9-96cf-40d8-97d7-deca26d82e72@r35g2000prj.googlegroups.com>
NNTP-Posting-Host: 117.199.245.115
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1303795804 8536 127.0.0.1 (26 Apr 2011 05:30:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Apr 2011 05:30:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r35g2000prj.googlegroups.com; posting-host=117.199.245.115;
posting-account=VkOAtQoAAACEcOLC5-eHi1eJjZH4zy38
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4406

A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.com/

ALL HOT PHOTOS SUPER SeXY PHOTOS

http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

ALL JOBS SITES FREE SEE

http://jobstwo.blogspot.com/

HOT VIDEOS

http://hotvideotoou.blogspot.com/2011/01/kiss-videos.html

hot lip kiss
http://hotvidos.blogspot.com/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.com/2010/07/hot-kisses.html
hollywood hot videos

```
http://hotvidos.blogspot.com/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.com/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.com/2010/07/tamil-hot-videos.html


From -3814139177749241819
X-Google-Thread: fc2a5,6d400c9d1fb03c91
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!
news.albasani.net!.POSTED!not-for-mail
From: Speagle <none@none.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Great Property For Sale!!!
Date: Thu, 28 Apr 2011 06:38:36 +0000 (UTC)
Organization: albasani.net
Lines: 35
Message-ID: <ipb21c$sfc$1@news.albasani.net>
References: <bc1019a1-b178-4095-a74b-9759c2c8e513@18g2000prd.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
X-Trace: news.albasani.net
3xYdPmoAznXvTS1UovsXT4ilpZp0Bz07WZyqEHddMEoodmFeMperSCrGtLqbbSMBSrcPB/
uIzvP9nlMWe05WzQ==
NNTP-Posting-Date: Thu, 28 Apr 2011 06:38:36 +0000 (UTC)
Injection-Info: news.albasani.net; logging-data="a3QqVln02XdaUM4Y9HNfJuQat/
H517mGPuq/nNzkq3wJaPbLgjyp1m8OgfNGM0AEf13QfDSIf8M+8a0TJMBz16+0sHYflwmdGSp/iR/
tJ9NO7RlIv6DmHyEjXEN4tdYO"; mail-complaints-to="abuse@albasani.net"
Cancel-Lock: sha1:9mFQqODzr8XdMX6KK0EtvngaiU0=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4704

On Mon, 25 Apr 2011 10:33:27 -0700, Grid Rock wrote:

> 4227 S Benton Avenue, Kansas City, MO 64130 -- Jackson County
>
> Property Characteristics:
> Neighborhood: Oak Park Southwest
> 3 Br/1 Bath
> 1392 SF/ Single Family
> Built: 1914
> Sales Price: $33,500.00
>
> Main Floor - Entry, Living/Dining, Kitchen, Bedroom 1 Upper Floor -
> Bedroom 2, Master Bedroom, Sunroom Basement - (Unfinished) Utility Space
>
> Construction: Wood Frame
> Roof: Composite Shingle Basement: Stone Utilities: City Heating: Forced
> Air/Fireplace Cooling: Air Conditioner (new), Ceiling Fan
>
```

> We also have properties below Market Value that we need to sell quickly.
> You may use it to rent out or to improve and resell--it's up to you.
> It is priced for a quick close with cash or hard money.
>
> If you're interested, please visit the website below:
>
> http://gridrockhousedeals.com
>
> We also have great turnkey cashflow properties in other market areas.
> These properties sell quickly, so click or call us now!
>
> Please contact
> Tim-602.539.9716 or
> Tina-816.339.4939 at any time of the day or Email gridrock214@gmail.com

WOW! A murder house! Funny you are asking so much for it. Does it come
with a crack kitchen?

From 2081207602310734659
X-Google-Thread: fc2a5,22b42e7ca15929b8,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe03.iad.POSTED!4b906575!not-for-mail
From: "Eugene" <eugene_77@live.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: TV-Scientifique
Lines: 6
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6090
X-RFC2646: Format=Flowed; Original
Message-ID: <5Hkup.3524$I17.2405@newsfe03.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Thu, 28 Apr 2011 21:08:17 UTC
Organization: TeraNews.com
Date: Thu, 28 Apr 2011 14:08:15 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:4408

HOT HOT HOT

Homebrew Radio Blog

From 6829624576026166292
X-Google-Thread: fc2a5,b9f258eca138a512

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X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!k25g2000yqf.googlegroups.com!not-for-
mail
From: Tom Horne <hornetd@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: N to 3/8-24
Date: Fri, 29 Apr 2011 10:02:10 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <86483573-b2d4-4e02-bc42-3cf217d9df4e@k25g2000yqf.googlegroups.com>
References: <im8jrt$cgm$1@frotz.eternal-september.org>
NNTP-Posting-Host: 96.231.193.110
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1304096530 31815 127.0.0.1 (29 Apr 2011 17:02:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 29 Apr 2011 17:02:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k25g2000yqf.googlegroups.com; posting-host=96.231.193.110;
posting-account=_jgH7AoAAAD_Z6aufUBhsAww61NnW0dP
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:2.0) Gecko/20100101 Firefox/
4.0,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4706

On Mar 21, 6:35=A0pm, davidmylastn...@acm.org (David Griffith) wrote:
> I'd like to modify an Arrow OSJ 146/440 to use an N connector instead of
> SO239. =A0This would require an N-to-3/8"-24 stud. =A0Allen Lowe hasn't
> heard of such a thing, which is why he doesn't offer that antenna with
> an N-connector. =A0Does anyone here know if such a beast exists? =A0What
> would it take to have some of these custom made?
>
> --
> David Griffith
> davidmylastn...@acm.org =A0 <--- Put my last name where it belongs

What you may want to consider is a type N pigtail terminated with the
correct size of ring terminal.  Add a wire mesh grip strain relief and
you'd have a pretty solid installation.
Alternatively you could mount a type N chassis connector to an angle
bracket and wire the center pin to a plain 3/8 24 stud insulated
stud.
--
Tom Horne, W3TDH


From -8911710611842277892
X-Google-Thread: fc2a5,2fa50b2ec1846c7c,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!22g2000prx.googlegroups.com!not-for-
mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: GOOD STUDY MATERIAL
Date: Sat, 30 Apr 2011 00:16:02 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <5f4c7e94-10d8-47e3-89e7-32f673b20256@22g2000prx.googlegroups.com>
NNTP-Posting-Host: 117.199.246.154
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1304147764 22699 127.0.0.1 (30 Apr 2011 07:16:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 30 Apr 2011 07:16:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 22g2000prx.googlegroups.com; posting-host=117.199.246.154;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4410

  GOOD STUDY MATERIAL FOR KIDS
http://studymaterialforu.blogspot.com
             UNIX INTERVIEW QUESTIONS
http://studymaterialforu.blogspot.com/2011/04/unix-interview-questions.html
          JAVA INTERVIEW QUESTIONS
http://studymaterialforu.blogspot.com/2011/04/java-interview-questions.html
        C ++ INTERVIEW QUESTIONS
http://studymaterialforu.blogspot.com/2011/04/c-interview-questions.html
       CIVILS INTERCIEW QUESTIONS
http://studymaterialforu.blogspot.com/2011/04/civils-interview-questions-and-
answers.html
         DIGITAL LOGIC INTERCIEW QUESTIONS
http://studymaterialforu.blogspot.com/2011/04/digital-logic-design-interview.html
         MICROPROCESSOR INTERVIEW QUESTIONS
http://studymaterialforu.blogspot.com/2011/04/microprocessor-interview-
questions.html


From -4119974338847238351
X-Google-Thread: fcc6e,296bad26c2a1240e,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,296bad26c2a1240e,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,296bad26c2a1240e,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,296bad26c2a1240e,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,296bad26c2a1240e,start
X-Google-NewGroupId: yes
```

```
X-Google-Thread: 10bf43,296bad26c2a1240e,start
X-Google-NewGroupId: yes
X-Google-Thread: 10e8ad,296bad26c2a1240e,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,296bad26c2a1240e,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf
6,gid8f86f75953,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-out.readnews.com!
transit4.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1301637601@panix.com>
Followup-To: poster
Date: 1 May 2011 02:00:03 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Jun 2011 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1304229601@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1304229604 27444 166.84.1.2 (1 May 2011 06:00:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 1 May 2011 06:00:04 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Xref: g2news2.google.com rec.radio.amateur.antenna:22964 rec.radio.amateur.dx:1019
rec.radio.amateur.equipment:2809 rec.radio.amateur.homebrew:4708
rec.radio.amateur.misc:6410 rec.radio.amateur.policy:33249
rec.radio.amateur.space:514 rec.radio.info:2382

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html
```

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader
opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/

d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From 7117740532367441928
X-Google-Thread: 108122,38bab4ee04ec6cfe,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,38bab4ee04ec6cfe,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,38bab4ee04ec6cfe,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,38bab4ee04ec6cfe,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,38bab4ee04ec6cfe,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf6,gida4a23d5f63,domainid0,pu
blic,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1302156301@panix.com>
Followup-To: poster
Date: 7 May 2011 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Jun 2011 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1304748300@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1304748304 23394 166.84.1.2 (7 May 2011 06:05:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 7 May 2011 06:05:04 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news2.google.com rec.radio.amateur.antenna:23031 rec.radio.amateur.dx:1024
rec.radio.amateur.equipment:2810 rec.radio.amateur.homebrew:4710
rec.radio.amateur.misc:6427 rec.radio.amateur.policy:33292 rec.radio.info:2402

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |

```
it was written, including:                                              |

 rec.radio.amateur.antenna                                              |
 rec.radio.amateur.boatanchors                                          |
 rec.radio.amateur.dx                                                   |
 rec.radio.amateur.equipment                                            |
 rec.radio.amateur.homebrew                                             |
 rec.radio.amateur.moderated                                            |
 rec.radio.amateur.space                                                |
```

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

```
From -1528596568492024357
X-Google-Thread: fc2a5,c41245ce426b200d,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p7g2000yqd.googlegroups.com!not-for-
mail
From: fitz <zeusrdx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Will Osama bin Laden become another Joan of Arc?
Date: Sat, 7 May 2011 03:56:43 -0700 (PDT)
Organization: http://groups.google.com
Lines: 8
Message-ID: <07affd95-2fd8-4255-a0e5-25c5eca94bbf@p7g2000yqd.googlegroups.com>
NNTP-Posting-Host: 204.116.59.123
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1304765804 18709 127.0.0.1 (7 May 2011 10:56:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 7 May 2011 10:56:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p7g2000yqd.googlegroups.com; posting-host=204.116.59.123; posting-
account=A451vgoAAAByCJv5ugpkfX8QG96-xuRZ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0;
 Trident/4.0; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
 3.0.30618; yie8),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4711

Will Osama bin Laden become another Joan of Arc?

(Click blue link to read "Will Osama bin Laden become another Joan of
Arc?" - It's FREE.}

http://www.rbduncan.com/joan-d-arc.htm




From 5895625351743068237
X-Google-Thread: fc2a5,277b0b7cf574c7f3,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q12g2000prb.googlegroups.com!not-for-
mail
From: bgfbfjgg ojdhdsd <uijsbhsbchsv@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT COUPLE MID NIGHT VIDEOS N PHOTOS
Date: Sat, 7 May 2011 04:34:57 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
Message-ID: <3b63d0f8-b0ac-47c4-ba82-3cc692ff35ba@q12g2000prb.googlegroups.com>
NNTP-Posting-Host: 117.199.247.170
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1304768097 7031 127.0.0.1 (7 May 2011 11:34:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 7 May 2011 11:34:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q12g2000prb.googlegroups.com; posting-host=117.199.247.170;
posting-account=VkOAtQoAAACEcOLC5-eHi1eJjZH4zy38
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.17)
 Gecko/20110420 Firefox/3.6.17,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4712


ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html




         hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
```

HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

for more hot videos

http://videosonblog.blogspot.com/2010/11/masala-videos.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

```
From -7826385308140256156
X-Google-Thread: fc2a5,c41245ce426b200d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!eternal-
september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: atec77 <atec77@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Will Osama bin Laden become another Joan of Arc?
Date: Sat, 07 May 2011 23:37:21 +1000
Organization: A noiseless patient Spider
Lines: 14
Message-ID: <iq3hun$jrp$1@dont-email.me>
References: <07affd95-2fd8-4255-a0e5-25c5eca94bbf@p7g2000yqd.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 7 May 2011 13:37:28 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="boEWUuaP+eHgRsXSv318Bg";
     logging-data="20345"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+OGa8dPLVp3dltunmBeH05"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-GB; rv:1.9.2.17) Gecko/
20110414 Thunderbird/3.1.10
In-Reply-To: <07affd95-2fd8-4255-a0e5-25c5eca94bbf@p7g2000yqd.googlegroups.com>
Cancel-Lock: sha1:nO8sZA2q5GZE6OpAIqZxAb+1m5Y=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4713

On 7/05/2011 8:56 PM, fitz wrote:
> Will Osama bin Laden become another Joan of Arc?
>
> (Click blue link to read "Will Osama bin Laden become another Joan of
> Arc?" - It's FREE.}
>
> http://www.rbduncan.com/joan-d-arc.htm
>
>
He will be awfully hard to light be 200 fathoms down

--
X-No-Archive: Yes




From 6408433131767097241
X-Google-Thread: fc2a5,c41245ce426b200d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder2.cambriumusenet.nl!
feed.tweaknews.nl!192.71.180.34.MISMATCH!newsfeed1.swip.net!85.214.198.2.MISMATCH!
eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Will Osama bin Laden become another Joan of Arc?
Date: Sat, 07 May 2011 13:55:15 -0400
Organization: A noiseless patient Spider
Lines: 17
Message-ID: <iq4127$9rg$1@dont-email.me>
References: <07affd95-2fd8-4255-a0e5-25c5eca94bbf@p7g2000yqd.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 7 May 2011 17:55:19 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="TjMmUOCQGwQTXx3JNNTASQ";
     logging-data="10096"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/Lk3lCMDui7tQ0v1dmENaeX/RnsMtzLUw="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.17) Gecko/20110424
Thunderbird/3.1.10
In-Reply-To: <07affd95-2fd8-4255-a0e5-25c5eca94bbf@p7g2000yqd.googlegroups.com>
Cancel-Lock: sha1:nQWJScAuIw+spQ4jvrqujA9DzNI=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4417

On 05/07/2011 06:56 AM, fitz wrote:
> Will Osama bin Laden become another Joan of Arc?
>
> (Click blue link to read "Will Osama bin Laden become another Joan of
> Arc?" - It's FREE.}
>
> http://www.rbduncan.com/joan-d-arc.htm
>
>
The very idea that most Moslems think of Bin Laden as a hero is crazy.
He has caused the death of more Moslems than their "enemies".  After the
Navy Seals left with Bin Laden's body the US requested instructions from
the Saudis about what to do with his remains.  We offered to have it
returned to them for proper burial.  They didn't want ANYTHING to do
with him and told us to do what we thought proper.  The Navy buried him
at sea with proper respect and with Muslem prayers  (as correctly as
they knew how).


From 5371819484858403996
X-Google-Thread: fc2a5,294a453bb3cda525,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k3g2000prl.googlegroups.com!not-for-
mail
From: sowmya <sowmya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: GOOD STUDY MATERIAL
Date: Sun, 8 May 2011 04:36:48 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <11e80311-a1cc-4441-8052-9eb821862e82@k3g2000prl.googlegroups.com>
```

```
NNTP-Posting-Host: 117.199.246.124
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1304854608 14672 127.0.0.1 (8 May 2011 11:36:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 8 May 2011 11:36:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k3g2000prl.googlegroups.com; posting-host=117.199.246.124;
posting-account=GuIc0goAAABHuN9VJ4di0FQvlAtWov1J
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.17)
 Gecko/20110420 Firefox/3.6.17,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4418



      GOOD STUDY MATERIAL FOR KIDS
http://studymaterialforu.blogspot.com
             UNIX INTERVIEW QUESTIONS
http://studymaterialforu.blogspot.com/2011/04/unix-interview-questions.html
          JAVA INTERVIEW QUESTIONS
http://studymaterialforu.blogspot.com/2011/04/java-interview-questions.html
        C ++ INTERVIEW QUESTIONS
http://studymaterialforu.blogspot.com/2011/04/c-interview-questions.html
       CIVILS INTERCIEW QUESTIONS
http://studymaterialforu.blogspot.com/2011/04/civils-interview-questions-and-
answers.html
         DIGITAL LOGIC INTERCIEW QUESTIONS
http://studymaterialforu.blogspot.com/2011/04/digital-logic-design-interview.html
         MICROPROCESSOR INTERVIEW QUESTIONS
http://studymaterialforu.blogspot.com/2011/04/microprocessor-interview-
questions.html



From -3521912426343862774
X-Google-Thread: fc2a5,c41245ce426b200d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
feeder.erje.net!xlned.com!feeder1.xlned.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!82.197.221.132.MISMATCH!posting.tweaknews.nl!not-for-mail
From: "PA5TIG" <pa5tig@amsat.org>
Newsgroups: rec.radio.amateur.homebrew
References: <07affd95-2fd8-4255-a0e5-25c5eca94bbf@p7g2000yqd.googlegroups.com>
Subject: Re: Will Osama bin Laden become another Joan of Arc?
Date: Mon, 9 May 2011 19:07:19 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6090
X-RFC2646: Format=Flowed; Original
Lines: 14
```

Message-ID: <4dc81f2e$0$3800$bf4948fe@news.tele2.nl>
Organization: Tele2
X-Trace:
DXC=X20He;QZE3UoPfY8k93I=V6`Y6aWje^YZJG6`RWdR>nWAX:oL2\cgLQNS3GW4IAaOTigLd:l\]nHV
Xref: g2news1.google.com rec.radio.amateur.homebrew:4419

hopefully not as popular as Ch Guevara.

"fitz" <zeusrdx@yahoo.com> schreef in bericht
news:07affd95-2fd8-4255-a0e5-25c5eca94bbf@p7g2000yqd.googlegroups.com...
> Will Osama bin Laden become another Joan of Arc?
>
> (Click blue link to read "Will Osama bin Laden become another Joan of
> Arc?" - It's FREE.}
>
> http://www.rbduncan.com/joan-d-arc.htm
>
>

From 9069143351185249843
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder2.cambriumusenet.nl!
feed.tweaknews.nl!194.109.133.84.MISMATCH!newsfeed.xs4all.nl!
newsfeed5.news.xs4all.nl!xs4all!feeder.erje.net!diablo2.news.osn.de!news.osn.de!
diablo2.news.osn.de!ecngs!feeder.ecngs.de!Xl.tags.giganews.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!local2.nntp.ams.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 10 May 2011 17:05:31 -0500
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
From: moronsbegone <NoThanx@never.org>
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net> <e3cf8449-
a500-4d01-9692-0d6159cd42d3@q9g2000yqc.googlegroups.com> <55fa82bf-331e-47b1-b0ad-
e02e009eb7b0@20g2000yqt.googlegroups.com>
<1lnji49vl1nulfrb9go7ker43dro840p2v@4ax.com>
<aqtji4dtdh33fj33k0ge2h8lrmsco4e2d6@4ax.com> <1ca64c73-7e41-4dd7-9149-
f2f433df4422@w35g2000yqm.googlegroups.com>
<rkoli4dv240dua688aajl5eqmf27sdlphj@4ax.com>
Organization: Private
Message-ID: <Xns9EE1ADDEF2C60notnowneverorg@127.0.0.1>
User-Agent: Xnews/5.04.25
Date: Tue, 10 May 2011 17:05:32 -0500
Lines: 12
X-Usenet-Provider: http://www.giganews.com
X-Trace:
sv3-1PyIEaCdWIn+bJy5w4PNalp298TiawJgcl6xCmxaGepNV+rMiQ6ndenMDW4jmB2ZyUA9pZMOh/

BFWca!+A/gbXxiXfn+oQ2E/ZmL7rS1pRFkV/5JyagcW6s3PjHYl5NtdzX351GaqIoAGSsqU8SCpQ==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1789
Xref: g2news2.google.com rec.radio.amateur.antenna:23075 rec.radio.amateur.homebrew:4717 alt.internet.wireless:17637

Jeff Liebermann <jeffl@cruzio.com> wrote in
news:rkoli4dv240dua688aajl5eqmf27sdlphj@4ax.com:

> However, he stupidly told all his friends, who immediately
> abused the system, so I locked it up with a WPA password.

Real easy to crack, google BackTrack 3 and weep. I preffer
cracking them for it is assured there is not much traffic on the
WEP and WPK pretected WiFi's .

--
May You reep the poverrty You have Voted for.

From -9011408864091779613
X-Google-Thread: fc2a5,c41245ce426b200d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: david <none@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Will Osama bin Laden become another Joan of Arc?
Date: Wed, 11 May 2011 11:14:11 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 22
Message-ID: <iqdr23$lpf$2@dont-email.me>
References: <07affd95-2fd8-4255-a0e5-25c5eca94bbf@p7g2000yqd.googlegroups.com>
     <iq4127$9rg$1@dont-email.me>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Injection-Date: Wed, 11 May 2011 11:14:11 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="j6YNSx4ZzkGtILp30gi9hg";
     logging-data="22319"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18OrYklvM5zzyxugrqKOr9B"
Cancel-Lock: sha1:Jw0wxWnZiqqpYzrszbmO4/E0nwE=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4719

On Sat, 07 May 2011 13:55:15 -0400, Kenneth Scharf rearranged some
electrons to say:

```
> On 05/07/2011 06:56 AM, fitz wrote:
>> Will Osama bin Laden become another Joan of Arc?
>>
>> (Click blue link to read "Will Osama bin Laden become another Joan of
>> Arc?" - It's FREE.}
>>
>> http://www.rbduncan.com/joan-d-arc.htm
>>
>>
> The very idea that most Moslems think of Bin Laden as a hero is crazy.
> He has caused the death of more Moslems than their "enemies".  After the
> Navy Seals left with Bin Laden's body the US requested instructions from
> the Saudis about what to do with his remains.  We offered to have it
> returned to them for proper burial.  They didn't want ANYTHING to do
> with him and told us to do what we thought proper.  The Navy buried him
> at sea with proper respect and with Muslem prayers  (as correctly as
> they knew how).

New drink in NY bars is the OSAMA:  two shots and a splash.



From 7110741078786243263
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-NewGroupId: yes
X-Google-Attributes: gid4baf9708d4,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 11 May 2011 11:21:56 -0500
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Sharing Internet Connection
From: moronsbegone <NoThanx@never.org>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-
ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-
bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk> <d36b413a-da35-430c-b8c2-
a34816a62fce@v19g2000yqn.googlegroups.com>
<i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
<3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
<QpLpl.36525$g63.20199@newsfe24.iad> <XMydnYUINNcDVzrUnZ2dnUVZ8omWnZ2d@pipex.net>
<dg3ql.51296$uG1.45551@newsfe16.iad>
Organization: Private
Message-ID: <Xns9EE2739DFE831notnowneverorg@127.0.0.1>
User-Agent: Xnews/5.04.25
Date: Wed, 11 May 2011 11:21:56 -0500
Lines: 40
```

```
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-0WNoiAzGvAmpoN58Fq9ffFl49Qnw6Q5xl0gTJ65bL7rZ9iEk/
t0L1hNpqJfu1osOvwJNoZLKdIxi/i1!ArMDYiNDN+nM2NV0MrZcnMqHhjqK1LLCuGIktI/
LjRSUwWCy3BPgBK0BWeRcCbbpWg0=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2847
Xref: g2news1.google.com rec.radio.amateur.antenna:21324
rec.radio.amateur.homebrew:4423 rec.radio.amateur.misc:6183
```

"Sal M. Onella" <salmonella@food.poisoning.org> wrote in
news:dg3ql.51296$uG1.45551@newsfe16.iad:

>
> "Highland Ham" <rfburns@allbands.net> wrote in message
> news:XMydnYUINNcDVzrUnZ2dnUVZ8omWnZ2d@pipex.net...
>
>> In the end it all boils down to : Trust thy neigbour.
>> Also ,there is no life without risk.
>>
>> Frank   GM0CSZ / KN6WH
>
> Glory be to God! I failed absolutely!
>
> No, no NO! What I said was: Do NOT trust your neighbor
> with your Internet connection. He is not as concerned with
> keeping you out of prison as you would want him to be if
> you are a freedom-loving soul. His misdeeds (or the
> misdeeds of people who have access to his computer,
> connected wirelessly to your 802.11 Internet connection)
> will be blamed on you. He does the deed -- you get the
> beating.
>
> If there is no life without risk, go down to the packing
> plant and stick your dick in the pickle slicer. Maybe
> nothing will happen.
>
> ;-)
> "Sal"
> (KD6VKW, a Lowland Ham -- 458 ft AMSL and hoping for not
> very much sea level rise)
>
>
>

This thread's gone to the Natzi's of Hitler. WOOOOOPS there
goes this thread .

--

May You reep the poverrty You have Voted for.

```
From 2300310676350405808
X-Google-Thread: fc2a5,acb08c38f0927b7,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Joerg <invalid@invalid.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Waterfall recording on DL4YHF "Spectrum Lab" software?
Date: Sat, 14 May 2011 16:41:10 -0700
Organization: Consultant
Lines: 16
Message-ID: <938i8tFr0tU1@mid.individual.net>
Reply-To: news@analogconsultants.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: individual.net kycp3BILLvNo2+bZEE2gRQVuAM6/Vuvf5hsJsexKGjRC1QbGL0
Cancel-Lock: sha1:D4jYdpDtluXm/okJ/ONI6TRe9yc=
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4424
```

Question to the VLF folks, regarding DL4YHF's software "Spectrum Lab":

Does anyone know how to write very long waterfall spectral recordings to a computer file but on a separate hard disk? In a way that they can later be read back in and looked at in their whole length, scrolling around between beginning and end.

If that is not possible, is there another software that can do this?

--
Regards, Joerg

http://www.analogconsultants.com/

"gmail" domain blocked because of excessive spam.
Use another domain or send PM.

```
From -8653823423316371481
X-Google-Thread: fc2a5,d48f8524cf3f0664,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
69.16.185.51.MISMATCH!isp-post01.iad!news.highwinds-media.com!news.cv.net!not-for-
mail
```

Date: Sun, 15 May 2011 18:37:31 -0400
From: Jeff W2NBC <w2nbc@optonline.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.17) Gecko/20110414 Thunderbird/3.1.10
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: The Boatanchor Classifieds, Boatanchor Auction!
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 14
Message-ID: <4dd055ac$0$9085$607ed4bc@cv.net>
Organization: Optimum Online
NNTP-Posting-Host: 68.196.6.3
X-Complaints-To: abuse@cv.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:4722

Hi All,

Dedicated to Vintage Amateur Radio and Shortwave radios:

The Boatanchor Classifieds-

http://www.dealamerica.com/deal/cgi-bin/ads/bcads.cgi

Boatanchor Auction!

http://www.dealamerica.com/deal/cgi-bin/boatanchor.cgi

Thank you for your support- Post some Ads!

From -8987239322727674310
X-Google-Thread: fc2a5,f55dceeb1b62d39b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!xlned.com!feeder3.xlned.com!feeder.news-service.com!cyclone02.ams2.highwinds-media.com!news.highwinds-media.com!npeersf01.ams.highwinds-media.com!newsfe12.ams2.POSTED!00000000!not-for-mail
From: "Yobbarayson" <yobba@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: TEST
Lines: 2
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6090
X-RFC2646: Format=Flowed; Original
Message-ID: <aA7Ap.4090$8A7.1679@newsfe12.ams2>
NNTP-Posting-Host: 86.15.200.53
X-Complaints-To: http://netreport.virginmedia.com

X-Trace: newsfe12.ams2 1305544070 86.15.200.53 (Mon, 16 May 2011 11:07:50 UTC)
NNTP-Posting-Date: Mon, 16 May 2011 11:07:50 UTC
Organization: virginmedia.com
Date: Mon, 16 May 2011 12:07:47 +0100
Xref: g2news2.google.com rec.radio.amateur.homebrew:4723

From -2207429322785084186
X-Google-Thread: fc2a5,3b0577f14baf69a9,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news-
in-02.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-02.dc1.easynews.com.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Parts & gear this Sun 5/23/11 Sacramento meet
From: Eugene Rippen <soundval@muchstuff.com>
Organization: Your Company
Message-ID: <Xns9EE96D77EEE73er7373@69.16.186.52>
User-Agent: Xnews/5.04.25
Lines: 30
X-Complaints-To: abuse@easynews.com
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Wed, 18 May 2011 17:45:41 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:4725

North Hills Ham Swap Meet will be at Natomas High School, Sacramento,
Sunday, May 22, 2011 at 7:30 AM.
For further info: http://www.k6is.org/hamfest11.pdf

LOTS OF PARTS!

I will be bringing, presuming no rain, a lot of PARTS and some SPEAKERS,
and the following GEAR at the APPROXIMATE PRICES. I will not discuss
these
before the Swap Meet:

Heathkit Apache TX-1 $95
Heathkit Mohawk RX-1 $195
Heathkit HW-101 $140
Heathkit HW-32A (20 M) with calibrator. No S deflection. VG $95.
Heathkit HW-22A (40 M) with calibrator. VG $95.
Heathkit HW-32A (20 M) VG. $70.
Heathkit HW-22 (40 M) VG. $75.
Heathkit HW-32 (20 M) Receives. No transmit. $20.
National NC-155 $140.
National NC-270 $160

Hallicrafters SX-23 VG & complete $500
Clegg Intercepter with the HF converter VG $355.
Clegg Zeus with the PS/Modulator untested. VG looking. $195
Hewlett-Packard 200-CD audio oscillator. $30.
Hallicrafters R-47 speaker. $30

See you there

Gene Rippen, WB6SZS

```
From 8346566766708856365
X-Google-Thread: fc2a5,ea625a8ceeb47516,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s2g2000yql.googlegroups.com!not-for-
mail
From: ayesha <aghydgt@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: {{[[ HOT GIRLS AND PORN WALLPAPER ONLY CLICK TO VIEW ]]}}
Date: Fri, 20 May 2011 07:38:15 -0700 (PDT)
Organization: http://groups.google.com
Lines: 35
Message-ID: <d95187f6-ea1e-4ab2-acf0-00c5e93e2927@s2g2000yql.googlegroups.com>
NNTP-Posting-Host: 182.177.185.166
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1305902295 19012 127.0.0.1 (20 May 2011 14:38:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 20 May 2011 14:38:15 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s2g2000yql.googlegroups.com; posting-host=182.177.185.166;
posting-account=O_10pAoAAADji0LVNESiFqh0m-NK_pea
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1) AppleWebKit/534.24 (KHTML, like
 Gecko) Chrome/11.0.696.68 Safari/534.24,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4429
```

Kisses wallpapers

http://hotwallpapers01.blogspot.com/2011/05/kissess-wallpapers.html
http://hotwallpapers01.blogspot.com/2011/05/kissess-wallpapers.html
http://hotwallpapers01.blogspot.com/2011/05/kissess-wallpapers.html

Angila juli hot wallpapers

http://hotwallpapers01.blogspot.com/2011/05/angilna-juli-wallpapers.html
http://hotwallpapers01.blogspot.com/2011/05/angilna-juli-wallpapers.html
http://hotwallpapers01.blogspot.com/2011/05/angilna-juli-wallpapers.html

hot and sexy wallpaper galamoues

```
http://hotwallpapers01.blogspot.com/2011/05/glemeours-wallpapers-04.html
http://hotwallpapers01.blogspot.com/2011/05/glemeours-wallpapers-04.html
http://hotwallpapers01.blogspot.com/2011/05/glemeours-wallpapers-04.html

Full sexey wallpapers

http://hotwallpapers01.blogspot.com/2011/05/glemeours-wallpapers-01.html
http://hotwallpapers01.blogspot.com/2011/05/glemeours-wallpapers-01.html
http://hotwallpapers01.blogspot.com/2011/05/glemeours-wallpapers-01.html

Pakistani hot girls

http://hotwallpapers01.blogspot.com/2011/05/pakistani-hot-girls.html
http://hotwallpapers01.blogspot.com/2011/05/pakistani-hot-girls.html
http://hotwallpapers01.blogspot.com/2011/05/pakistani-hot-girls.html

sexey Indian girls

http://hotwallpapers01.blogspot.com/2011/05/sexy-indian-girls-wallpapers.html
http://hotwallpapers01.blogspot.com/2011/05/sexy-indian-girls-wallpapers.html
http://hotwallpapers01.blogspot.com/2011/05/sexy-indian-girls-wallpapers.html


From 5581767903954234879
X-Google-Thread: fc2a5,fa8607e8dc11abff,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!goblin1!goblin.stu.neva.ru!eweka.nl!hq-
usenetpeers.eweka.nl!ecngs!feeder.ecngs.de!Xl.tags.giganews.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!local2.nntp.ams.giganews.com!
nntp.bt.com!news.bt.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 23 May 2011 15:49:05 -0500
From: "Howard James" <h.james.james@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: EchoLink Interface
Date: Mon, 23 May 2011 21:48:54 +0100
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
Importance: Normal
X-Newsreader: Microsoft Windows Live Mail 15.4.3508.1109
X-MimeOLE: Produced By Microsoft MimeOLE V15.4.3508.1109
Message-ID: <b5qdnSImY5PfVUfQnZ2dnUVZ7vidnZ2d@bt.com>
Lines: 8
X-Usenet-Provider: http://www.giganews.com
X-AuthenticatedUsername: NoAuthUser
X-Trace: sv3-7v4mVK5LPeF/sEYGkZhi9+
+FARHtVUnlPXpdjfawdrloMz2/4C8ZB9bb1TqrlhJoT0K6cV17DHwHESd!
mAln7rVnRUWUWHes3Xx2dl5wTUy6LfXlhCf8yjFD0xV6g097xU3Nj4bLUXzKEDVSdnfeqa/vzZU=
X-Complaints-To: abuse@btinternet.com
X-DMCA-Complaints-To: abuse@btinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1446
Xref: g2news1.google.com rec.radio.amateur.homebrew:4430
```

I'm building an EchoLink interface and one of the signals to the tranceiver
is COR.
What does COR stand for please?
I have no reference to COR in my Kenwood TS2000 manual. I suspect it may
have something to do with squelch.
Thanks.
Howard.

```
From -8846233878485431345
X-Google-Thread: fc2a5,fa8607e8dc11abff
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 23 May 2011 16:08:49 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <b5qdnSImY5PfVUfQnZ2dnUVZ7vidnZ2d@bt.com>
Subject: Re: EchoLink Interface
Date: Mon, 23 May 2011 16:08:49 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6090
X-RFC2646: Format=Flowed; Response
Message-ID: <ceqdnY-tcop8UUfQnZ2dnUVZ_uqdnZ2d@giganews.com>
Lines: 23
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-V6Pl+kOjBUx31pVfF9LM+/
hxGLoLy6/6FiHZkN2hvXu3azmyakttf5cTfwVmmUoTkExAP0Szu2e2oeP!+h4j0WWgPSbcBsnNkC/
clTzyzChbTR3PsjmybjOKDqREpP2nzZhfqS0SjpJZ3KNxUCBDE+9cYkC2
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1842
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:4431

Howard James wrote:
> I'm building an EchoLink interface and one of the signals to the
> tranceiver is COR.
> What does COR stand for please?
> I have no reference to COR in my Kenwood TS2000 manual. I suspect it
> may have something to do with squelch.
> Thanks.
> Howard.

COR = Carrier Operated Relay
A signal used in a repeater to indicate that a carrier is being received.
Used to be a common signal in old tube-type equipment, where the receiver
and transmitters were controlled by relays. Modern solid-state equipment
doesn't have a COR signal... it's usually a logic-level signal from the
squelch circuit that indicates that the receiver has detected a carrier.

--
David
dgminala at mediacombb dot net

From -8796277327916076593
X-Google-Thread: fc2a5,fa8607e8dc11abff
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 23 May 2011 17:08:03 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: EchoLink Interface
References: <b5qdnSImY5PfVUfQnZ2dnUVZ7vidnZ2d@bt.com>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Mon, 23 May 2011 14:21:52 -0700
Message-ID: <govqa8-s79.ln1@radagast.org>
Lines: 39
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.159.209.148
X-Trace: sv3-VjId2JA9at9RhDVrlDC5Is+n/eTIV7llRNTa2SqXMd+pEMmWvPK6T4/
kolpe+lotQWElMZVpVWgqdQ5!
6bZ9B0xaTszjeH9mocgrxhuo+achRxE5Lg3Admaf2CCeIaWHdwsuAgNsZZwPSQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint

```
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2789
Xref: g2news2.google.com rec.radio.amateur.homebrew:4729
```

In article <b5qdnSImY5PfVUfQnZ2dnUVZ7vidnZ2d@bt.com>,
Howard James <h.james.james@btinternet.com> wrote:

>I'm building an EchoLink interface and one of the signals to the tranceiver
>is COR.

>What does COR stand for please?

>I have no reference to COR in my Kenwood TS2000 manual. I suspect it may
>have something to do with squelch.

COR is (I believe) an acronym for "Carrier Operated Relay", and is often referred to these days as "COS" ("Carrier Operated Squelch").

It's a signal which comes from a receiver of some sort, which means "I'm detecting a sufficiently strong carrier to 'believe' that there is an incoming signal of some sort."

Just what this signal actually indicates, depends on the radio. It might be from RF detection in the front end, or be based on the S-meter circuitry in an FM limiter/discriminator, or might be based on a reduction in the noise level in the signal coming out of the FM discriminator (the latter is most common in VHF FM radios).

In the case of a COR signal coming out of an Echolink or similar interface, it would be controlled by software, and I'd imagine that it probably means "We're receiving incoming audio packets via the Ethernet." You'd feed it (possibly with inversion and/or buffering) to the PTT input to your transceiver.

If it's intended as an *input* to the Echolink interface, then it would probably be connected to a "signal arriving, speaker on!" output from your transceiver... but most transceivers don't have one of these.

```
--
Dave Platt <dplatt@radagast.org>                                  AE6EO
Friends of Jade Warrior home page:  http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!
```

```
From -2871994440863375303
X-Google-Thread: fc2a5,fa8607e8dc11abff
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
```

nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 23 May 2011 17:14:29 -0500
Date: Mon, 23 May 2011 22:14:28 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.17) Gecko/20110414 Thunderbird/3.1.10
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: EchoLink Interface
References: <b5qdnSImY5PfVUfQnZ2dnUVZ7vidnZ2d@bt.com> <ceqdnY-tcop8UUfQnZ2dnUVZ_uqdnZ2d@giganews.com>
In-Reply-To: <ceqdnY-tcop8UUfQnZ2dnUVZ_uqdnZ2d@giganews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <PeCdnag7rZvYQUfQnZ2dnUVZ_j2dnZ2d@bright.net>
Lines: 23
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-Fpr/CZi6XKSVKVrwClhAkLc4Q1eexfb1O/C9hDu7RXoJDtxMdtYyQeP7pcSefWOzOlXr6eOmg5kPDqh!E45xn91kGEyy1p61jLnm4k47uxbKiKGYDNgOrG8Ox1wfZgjli6/Z7g11/PR2jLwbqGa7p166L7rS!2kotKNSrXw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2211
Xref: g2news1.google.com rec.radio.amateur.homebrew:4433

On 5-23-2011 21:08, Dave M wrote:

>
>
> COR = Carrier Operated Relay
> A signal used in a repeater to indicate that a carrier is being received.
> Used to be a common signal in old tube-type equipment, where the receiver
> and transmitters were controlled by relays. Modern solid-state equipment
> doesn't have a COR signal... it's usually a logic-level signal from the
> squelch circuit that indicates that the receiver has detected a carrier.
>

Correct. Looking at a TS-2000 manual on line (I do not own a TS-2000), I would say the signal you want is on the ACC2 port on the rear of the radio and called MSQ. This pin goes to ground when the squelch is opened and/or receiving a signal. It is an "open" when the audio is squelched. If your Echolink interface is looking for a "ground" signal to indicate the presence of RX audio, this pin should work as is. If your interface needs a positive voltage during RX, then you would need an NPN transistor used as an inverter.

N0EDV

```
From 6497432361528939555
X-Google-Thread: fc2a5,dcc82fe7921a6e7,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l14g2000pro.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: TINACA HOT HOT VIDEOS
Date: Mon, 23 May 2011 17:51:18 -0700 (PDT)
Organization: http://groups.google.com
Lines: 38
Message-ID: <c136d4d2-afee-40f9-bec9-861d0f8bf332@l14g2000pro.googlegroups.com>
NNTP-Posting-Host: 117.199.242.160
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1306198278 12278 127.0.0.1 (24 May 2011 00:51:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 24 May 2011 00:51:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l14g2000pro.googlegroups.com; posting-host=117.199.242.160;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.17)
 Gecko/20110420 Firefox/3.6.17,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4731





           for hot videos
http://verysexyhotvideos.blogspot.com/

hot lip kiss videos
http://allvideosforyouth.blogspot.com/2010/08/hot-lip-kiss-videos.html

super hot lip kiss
http://allvideosforyouth.blogspot.com/2010/08/super-hot-lip-kiss.html


     jobs
http://alljobsaywhere.blogspot.com/


                        games

GAME 1
http://freeonlingamesplay.blogspot.com/2010/08/game-1.html
```

GAME 2
http://freeonlingamesplay.blogspot.com/2010/08/game-2.html

mobile

mobile games free download
http://mobileallinforation.blogspot.com/2010/08/mobile-games-free-download.html

mobile ringtones free download
http://mobileallinforation.blogspot.com/2010/08/mobile-ringtones-free-download.html

```
From 3513201118036214530
X-Google-Thread: fc2a5,d87548a1b7b63a88,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!17g2000prr.googlegroups.com!not-for-
mail
From: SRAVANTHI LOVE <sravanthi.sravya24@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: GOOD STUDY METERIAL
Date: Tue, 24 May 2011 06:22:34 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <88b1e65a-bffa-4ea0-968b-b2fea99753b7@17g2000prr.googlegroups.com>
NNTP-Posting-Host: 117.199.252.184
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1306243355 12981 127.0.0.1 (24 May 2011 13:22:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 24 May 2011 13:22:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 17g2000prr.googlegroups.com; posting-host=117.199.252.184;
posting-account=xlJdHgoAAABgcJTnuAE4KX8N828Cze-V
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.17)
 Gecko/20110420 Firefox/3.6.17,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4732
```

GOOD STUDY MATERIAL FOR KIDS
http://studymaterialforu.blogspot.com
UNIX INTERVIEW QUESTIONS
http://studymaterialforu.blogspot.com/2011/04/unix-interview-questions.html

JAVA INTERVIEW QUESTIONS
http://studymaterialforu.blogspot.com/2011/04/java-interview-questions.html
C ++ INTERVIEW QUESTIONS
http://studymaterialforu.blogspot.com/2011/04/c-interview-questions.html
CIVILS INTERCIEW QUESTIONS
http://studymaterialforu.blogspot.com/2011/04/civils-interview-questions-and-answers.html
DIGITAL LOGIC INTERCIEW QUESTIONS
http://studymaterialforu.blogspot.com/2011/04/digital-logic-design-interview.html
MICROPROCESSOR INTERVIEW QUESTIONS
http://studymaterialforu.blogspot.com/2011/04/microprocessor-interview-questions.html

```
From -1704168975058832302
X-Google-Thread: fc2a5,fa8607e8dc11abff
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feeder.erje.net!eternal-
september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: <petem001@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: EchoLink Interface
Date: Tue, 24 May 2011 12:14:31 -0400
Organization: A noiseless patient Spider
Lines: 1
Message-ID: <irglhe$d8t$1@dont-email.me>
References: <b5qdnSImY5PfVUfQnZ2dnUVZ7vidnZ2d@bt.com>
Mime-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: quoted-printable
Injection-Date: Tue, 24 May 2011 16:14:38 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="CbXnNyfWmRQ9+0LVoNpWSg";
     logging-data="13597"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18PkewbgF7iLd2y31aWeuKHBPUnTcJffHM="
In-Reply-To: <b5qdnSImY5PfVUfQnZ2dnUVZ7vidnZ2d@bt.com>
X-Newsreader: Microsoft Windows Live Mail 15.4.3508.1109
Importance: Normal
Cancel-Lock: sha1:6FNop82qeai2qAYrz5I4jN66TOM=
X-Priority: 3
X-MSMail-Priority: Normal
X-MIMEOLE: Produced By Microsoft MimeOLE V15.4.3508.1109
Xref: g2news1.google.com rec.radio.amateur.homebrew:4436
```

Hi Howard

I strongly sujest to you to start reading the repeater builder mailling =
list=20
and to go on there web page..

even if you dont whant to build a repeater you will learn a lot about =
signal=20
type and there uses..

"Howard James" wrote in message=20
news:b5qdnSImY5PfVUfQnZ2dnUVZ7vidnZ2d@bt.com...

I'm building an EchoLink interface and one of the signals to the =
tranceiver
is COR.
What does COR stand for please?
I have no reference to COR in my Kenwood TS2000 manual. I suspect it may
have something to do with squelch.
Thanks.
Howard.=20

From 5433683144984044704
X-Google-Thread: fc2a5,d98f73f24b7b5f0d,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p13g2000yqh.googlegroups.com!not-for-mail
From: Kendal Goodson <kendalg@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Si535x clock generator chip vs. si570 series
Date: Wed, 25 May 2011 07:41:29 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <44ecfa1e-c1cb-41ce-9d51-cd3e59fd014c@p13g2000yqh.googlegroups.com>
NNTP-Posting-Host: 66.148.153.106
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1306334489 21604 127.0.0.1 (25 May 2011 14:41:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 25 May 2011 14:41:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p13g2000yqh.googlegroups.com; posting-host=66.148.153.106;
posting-account=eAoMFQoAAAD90cDWNr1A3WHL08KDNabV
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLUEHNKC
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
 Trident/4.0; .NET CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30;
 .NET CLR 3.0.04506.648; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729; .NET4.0C; .NET4.0E),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4437

Hello all,

Has anybody yet played with or seen the Si535x clock generator chips that showed up in the new Mouser catalog? It's i2c programmable (like the si570) and I was thinking that it could be used in a similar fashion as the si570 usb controlled vfo's that seem to be so common on the internet. The 535x series can generate 3 (or 8) different simulaneous clocks at any one time and I see some advantages to that, i.e. downconverter oscillator + vfo + detector oscillator all in one 10 pin package. BUT, and there's always a but, the datasheet doesn't show how to set up the divider registers, instead referring you to a PC program that will generate programming for you.

Has anybody skinned this cat yet and figured out the register programming?

73,
Kenn
KA5KXW

```
From -4450214605377576366
X-Google-Thread: fc2a5,e1bbcb6283db2d60,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 25 May 2011 12:13:48 -0500
From: "Hello.com" <hi@hello..com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Help Please -CA3458T
Date: Wed, 25 May 2011 12:13:43 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6090
X-EsetScannerBuild: 9314
Message-ID: <LMOdnXL_H5VRpUDQnZ2dnUVZ_qudnZ2d@giganews.com>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-4DhKvMRGhw4+YSZNowO41pYOyoBFbe9AI/YNnTcvM+3tK9vOWQfdxiPj7+iHMxFbhz5ciGuw9HK6QkT!r/dS9SbfJD5wBsstXiQI4epohbVxBvmZEiVGfSfVyVy35kDFvCKgz39Vvvsqeeiv4mvCLKLZnY3+
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1394
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:4735

Looking for a CA3458T opamp or equiv...

Fixing an HP power supply, need one, would like to purchase 2 or 3.

Thanks,
Emil
W9NM

__________ Information from ESET Smart Security, version of virus signature database 6151 (20110525) __________

The message was checked by ESET Smart Security.

http://www.eset.com

From -4041664447262769177
X-Google-Thread: fc2a5,e1bbcb6283db2d60
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 25 May 2011 15:08:16 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <LMOdnXL_H5VRpUDQnZ2dnUVZ_qudnZ2d@giganews.com>
Subject: Re: Help Please -CA3458T
Date: Wed, 25 May 2011 15:08:16 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6090
X-RFC2646: Format=Flowed; Response
Message-ID: <EJCdnewIxr8t_EDQnZ2dnUVZ_sqdnZ2d@giganews.com>
Lines: 23
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Od9TxQ1sc9HQ77bp216eKzWRWf/ws2QjfFsI4SduyWa9gAlkinz79YfXG4chYNXGvhmrHXWmo9UOX9V!6mP7hE9nmQLQiAby0EqCzyb7X6xbgAboclM7oxbaL75G/kVNqUc4XBu0inmiJidwkxPxIoxul6zM
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers

X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1710
Xref: g2news1.google.com rec.radio.amateur.homebrew:4439

Hello.com wrote:
> Looking for a CA3458T opamp or equiv...
>
> Fixing an HP power supply, need one, would like to purchase 2 or 3.
>
> Thanks,
> Emil
> W9NM
>

The MC1558, LM1558 and uA1558 are subs for the CA3458. The T suffix probably indicates that it's in a metal TO5 can. If so, you might have to get a type 1458 chip in a metal case. Unicorn Electronics (http://www.unicornelectronics.com/IC/LINEAR.html) has the LM1458H in a metal can. Same chip, just commercial temperature range rather than the Industrial temp range.

--
David
dgminala at mediacombb dot net

From -2409652287260142869
X-Google-Thread: fc2a5,e1bbcb6283db2d60
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!usenet.stanford.edu!news.kjsl.com!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Help Please -CA3458T
Date: Wed, 25 May 2011 16:37:31 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 26
Sender: et472@200-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.1105251635570.13653@darkstar.example.net>
References: <LMOdnXL_H5VRpUDQnZ2dnUVZ_qudnZ2d@giganews.com>
 <EJCdnewIxr8t_EDQnZ2dnUVZ_sqdnZ2d@giganews.com>
NNTP-Posting-Host: 200-215-235-64-ppp.3menatwork.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1306355964 19857 64.235.215.200 (25 May 2011 20:39:24 GMT)
X-Complaints-To: complaints@ncf.ca

NNTP-Posting-Date: 25 May 2011 20:39:24 GMT
In-Reply-To: <EJCdnewIxr8t_EDQnZ2dnUVZ_sqdnZ2d@giganews.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:4440

On Wed, 25 May 2011, Dave M wrote:

> Hello.com wrote:
>> Looking for a CA3458T opamp or equiv...
>>
>> Fixing an HP power supply, need one, would like to purchase 2 or 3.
>>
>> Thanks,
>> Emil
>> W9NM
>>
>
> The MC1558, LM1558 and uA1558 are subs for the CA3458. The T suffix
> probably indicates that it's in a metal TO5 can. If so, you might have to
> get a type 1458 chip in a metal case. Unicorn Electronics
> (http://www.unicornelectronics.com/IC/LINEAR.html) has the LM1458H in a
> metal can. Same chip, just commercial temperature range rather than the
> Industrial temp range.
>

But then it's a fairly standard dual op-amp. I can never remember the RCA
prefixes, I was thinking he was looking for a CMOS era op-amp.

Given it is then a fairly generic op-amp, ie no high speed characteristics
or specially high input impedance, most generic op-amps would work.

Michael VE2BVW

From -5401981751560162026
X-Google-Thread: fc2a5,e1bbcb6283db2d60
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 25 May 2011 16:20:33 -0500
From: "Hello.com" <hi@hello..com>
Newsgroups: rec.radio.amateur.homebrew
References: <LMOdnXL_H5VRpUDQnZ2dnUVZ_qudnZ2d@giganews.com>
<EJCdnewIxr8t_EDQnZ2dnUVZ_sqdnZ2d@giganews.com>
Subject: Re: Help Please -CA3458T
Date: Wed, 25 May 2011 16:20:30 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6090
X-EsetScannerBuild: 9314

Message-ID: <JZidnfJhEvI870DQnZ2dnUVZ_vydnZ2d@giganews.com>
Lines: 55
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-feW0wqz19xGqcg0O3tk+UxwvrtiHqtj74t1eyOB4JEbnifIBYejSzfO0gmUL3m4UQ/
C6shKQUO+a3ff!48n2Lqlvy+l+BkXHX/knrMJ0VAn/7OIk0/
sStttLbmKV9TW+C6lPOLHD36pXbFmXYR0oTAw5LE5g
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2442
Xref: g2news2.google.com rec.radio.amateur.homebrew:4738

David, thanks very much for the help and the source info. And, yes, it is a
TO5 metal can.

Emil

"Dave M" <dgminala4444@mediacombb.net> wrote in message
news:EJCdnewIxr8t_EDQnZ2dnUVZ_sqdnZ2d@giganews.com...
> Hello.com wrote:
>> Looking for a CA3458T opamp or equiv...
>>
>> Fixing an HP power supply, need one, would like to purchase 2 or 3.
>>
>> Thanks,
>> Emil
>> W9NM
>>
>
> The MC1558, LM1558 and uA1558 are subs for the CA3458. The T suffix
> probably indicates that it's in a metal TO5 can. If so, you might have to
> get a type 1458 chip in a metal case. Unicorn Electronics
> (http://www.unicornelectronics.com/IC/LINEAR.html) has the LM1458H in a
> metal can. Same chip, just commercial temperature range rather than the
> Industrial temp range.
>
> --
> David
> dgminala at mediacombb dot net
>
>
>
>
> __________ Information from ESET Smart Security, version of virus
> signature database 6151 (20110525) __________
>
> The message was checked by ESET Smart Security.

>
> http://www.eset.com
>
>
>

__________ Information from ESET Smart Security, version of virus signature database 6151 (20110525) __________

The message was checked by ESET Smart Security.

http://www.eset.com

```
From 8460280809016391516
X-Google-Thread: fc2a5,f49f25a94001439e,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q9g2000prg.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT
Date: Wed, 25 May 2011 23:12:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 35
Message-ID: <b395aef4-9b00-4b02-9b6a-9abdd67b09fe@q9g2000prg.googlegroups.com>
NNTP-Posting-Host: 117.199.248.86
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1306390334 7194 127.0.0.1 (26 May 2011 06:12:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 May 2011 06:12:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q9g2000prg.googlegroups.com; posting-host=117.199.248.86; posting-
account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.17)
 Gecko/20110420 Firefox/3.6.17,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4739
```

HOT VIDEOS

massage hot videos

http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

From 7533772818569149675
X-Google-Thread: fc2a5,d98f73f24b7b5f0d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!q12g2000prb.googlegroups.com!not-for-mail
From: Kendal Goodson <kendalg@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Si535x clock generator chip vs. si570 series
Date: Fri, 27 May 2011 06:22:37 -0700 (PDT)
Organization: http://groups.google.com
Lines: 24
Message-ID: <ff00ce14-2c1e-4d1b-a4c7-26b049ddd04c@q12g2000prb.googlegroups.com>
References: <44ecfa1e-c1cb-41ce-9d51-cd3e59fd014c@p13g2000yqh.googlegroups.com>
NNTP-Posting-Host: 66.148.153.106
Mime-Version: 1.0

```
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1306502558 18914 127.0.0.1 (27 May 2011 13:22:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 27 May 2011 13:22:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q12g2000prb.googlegroups.com; posting-host=66.148.153.106;
posting-account=eAoMFQoAAAD90cDWNr1A3WHL08KDNabV
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLUEHNKC
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
 Trident/4.0; .NET CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30;
 .NET CLR 3.0.04506.648; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729; .NET4.0C; .NET4.0E),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4443

Good news! A new datasheet for this device appeared on the SI Labs
website today that details all of the registers!

On May 25, 9:41=A0am, Kendal Goodson <kend...@yahoo.com> wrote:
> Hello all,
>
> Has anybody yet played with or seen the Si535x clock generator chips
> that showed up in the new Mouser catalog? =A0It's i2c programmable (like
> the si570) and I was thinking that it could be used in a similar
> fashion as the si570 usb controlled vfo's that seem to be so common on
> the internet. =A0The 535x series can generate 3 (or 8) different
> simulaneous clocks at any one time and I see some advantages to that,
> i.e. downconverter oscillator + vfo + detector oscillator all in one
> 10 pin package. BUT, and there's always a but, the datasheet doesn't
> show how to set up the divider registers, instead referring you to a
> PC program that will generate programming for you.
>
> Has anybody skinned this cat yet and figured out the register
> programming?
>
> 73,
> Kenn
> KA5KXW



From -5090300024312995732
X-Google-Thread: fc2a5,916bab46a1f6414,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!eternal-
september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: pic-a-star
```

```
Date: Sat, 28 May 2011 13:58:34 -0400
Organization: A noiseless patient Spider
Lines: 12
Message-ID: <irrd4c$6qn$1@dont-email.me>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 28 May 2011 17:58:36 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="Hx3Ujq7GqurrtbqZFToZ6Q";
	logging-data="6999"; mail-complaints-to="abuse@eternal-september.org";
	posting-account="U2FsdGVkX1+i9gKNUZ7wbJ3M9yT1Mrgmb0RIcInoy18="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.17) Gecko/20110424
Thunderbird/3.1.10
Cancel-Lock: sha1:VVt9QYsUMs0QXcW3xsLk+x0464s=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4741
```

Anybody on this NG ever build one of G3XJP's picastar designs?
I was starting to design my own QRP rig based on some of W8DIZ's (www.kitsandparts.com) circuits. I ended up ordering his toroid kits for the WA2EBY IRF510 amplifier and the PA3AKE bandpass filter. I already have a DDS-60 for my HFO and built an R1 receiver board to start with a direct conversion receiver. I was going to expand that into a transceiver using a 9mhz IF (I have some surplus filters) but then I ran into the RadCom articles on the picastar transceiver. This may very well end up being the poor man's K3! The only down side is having to etch your own PC boards. VK3PE did have some factory made boards run off, but I missed out on his last scheduled run, don't think he is going to make anymore....

```
From 8951378358084927114
X-Google-Thread: fc2a5,3e8770642166d67,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!cu4g2000vbb.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: vr tube replacement
Date: Sun, 29 May 2011 05:23:11 -0700 (PDT)
Organization: http://groups.google.com
Lines: 5
Message-ID: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
NNTP-Posting-Host: 155.178.5.18
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1306671791 13365 127.0.0.1 (29 May 2011 12:23:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 29 May 2011 12:23:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: cu4g2000vbb.googlegroups.com; posting-host=155.178.5.18; posting-
account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
```

User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLUHCNK
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
 Trident/4.0; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4742

I want to replace the vr 0A3 tube used in the bias circuit of a 6146B
amp with a 75V zener string. Can I just directly replace the tube with
the diodes or will I need to make other modifications to the circuit?

Jimmie

From -32521690719560215
X-Google-Thread: fc2a5,3e8770642166d67
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!goblin1!goblin2!goblin.stu.neva.ru!
aioe.org!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: vr tube replacement
Date: Sun, 29 May 2011 10:45:05 -0400
Organization: A noiseless patient Spider
Lines: 9
Message-ID: <irtm5i$dr9$1@dont-email.me>
References: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sun, 29 May 2011 14:45:06 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="Hx3Ujq7GqurrtbqZFToZ6Q";
     logging-data="14185"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18gqqQ+MIqwl//iJCcWFdUsDNSGY5bQxNw="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.17) Gecko/20110424
Thunderbird/3.1.10
In-Reply-To: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
Cancel-Lock: sha1:e3ziRfb/Pab0tINq0zRCmxdq2Ow=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4743

On 05/29/2011 08:23 AM, JIMMIE wrote:
> I want to replace the vr 0A3 tube used in the bias circuit of a 6146B
> amp with a 75V zener string. Can I just directly replace the tube with
> the diodes or will I need to make other modifications to the circuit?
>
> Jimmie

If you use diodes rated at the same current as the 0A3 (40ma) then it
should be a direct replacement, at least for a voltage regulator
application.

```
From -2517726536834328757
X-Google-Thread: fc2a5,3e8770642166d67
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!eternal-
september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: vr tube replacement
Date: Sun, 29 May 2011 10:46:19 -0400
Organization: A noiseless patient Spider
Lines: 8
Message-ID: <irtm7s$dr9$2@dont-email.me>
References: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sun, 29 May 2011 14:46:20 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="Hx3Ujq7GqurrtbqZFToZ6Q";
     logging-data="14185"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+QjE8jJZcJYe6aEca0ZxzO0XUoa4bLlU4="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.17) Gecko/20110424
Thunderbird/3.1.10
In-Reply-To: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
Cancel-Lock: sha1:543prWZkThY0p5TdT1usnxWCAiM=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4744

On 05/29/2011 08:23 AM, JIMMIE wrote:
> I want to replace the vr 0A3 tube used in the bias circuit of a 6146B
> amp with a 75V zener string. Can I just directly replace the tube with
> the diodes or  will I need to make other modifications to the circuit?
>
> Jimmie
Forgot one thing, with zeners the CATHODE of the diode is wired to the
tube ANODE and visa versa (zeners work in the REVERSE mode!).
```

```
From 3054026798286481
X-Google-Thread: fc2a5,3e8770642166d67
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!a7g2000vby.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: vr tube replacement
Date: Sun, 29 May 2011 07:59:29 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <3846a2b4-23a9-4610-91f9-0b279b8b39a8@a7g2000vby.googlegroups.com>
References: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
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NNTP-Posting-Host: 71.191.185.32
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1306681170 22455 127.0.0.1 (29 May 2011 14:59:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 29 May 2011 14:59:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a7g2000vby.googlegroups.com; posting-host=71.191.185.32; posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HNKRUAELSC
X-HTTP-UserAgent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/534.24 (KHTML, like Gecko) Chrome/11.0.696.71 Safari/534.24,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4448

On May 29, 8:23=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:

> I want to replace the vr 0A3 tube used in the bias circuit of a 6146B
> amp with a 75V zener string. Can I just directly replace the tube with
> the diodes or =A0will I need to make other modifications to the circuit?
>
> Jimmie

Typical OA3 is idling with between 5 and 40mA of current flowing
through it, so make sure the zener string can dissipate the power.
(75V * 0.040A =3D 3 watts worst case, but I'd expect less idle current
in a grid bias regulator.).

If this is a major redesign you might want to use a solid state series
pass regulator (e.g. TL783 or the like) and probably get rid of that
old wirewound pot in the bias circuit.

0A3's are not unobtanium, rare, or expensive. I kinda like seeing VR
tubes around the PA, nice purple/pink glow dims and brightens as I
key, and if they're not glowing then something's wrong.

From -7995307375341223222
X-Google-Thread: fc2a5,3e8770642166d67
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!195.96.0.7.MISMATCH!newsfeed.utanet.at!weretis.net!feeder4.news.weretis.net!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: vr tube replacement
Date: Sun, 29 May 2011 13:40:18 -0400
Organization: A noiseless patient Spider
Lines: 24

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Message-ID: <iru0e4$i41$1@dont-email.me>
References: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
<3846a2b4-23a9-4610-91f9-0b279b8b39a8@a7g2000vby.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sun, 29 May 2011 17:40:20 +0000 (UTC)
Injection-Info: mx04.eternal-september.org; posting-host="dLJXgbuSKkds9nv4STqNog";
     logging-data="18561"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/Wxou9Rp7/kk3ijopbX5pPFTRuBUogdpI="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.17) Gecko/20110424
Thunderbird/3.1.10
In-Reply-To: <3846a2b4-23a9-4610-91f9-0b279b8b39a8@a7g2000vby.googlegroups.com>
Cancel-Lock: sha1:Qj96r/naTJseIut5ioKJ7IHH16E=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4449

On 05/29/2011 10:59 AM, Tim Shoppa wrote:
> On May 29, 8:23 am, JIMMIE<JIMMIEDEE...@YAHOO.COM>  wrote:
>> I want to replace the vr 0A3 tube used in the bias circuit of a 6146B
>> amp with a 75V zener string. Can I just directly replace the tube with
>> the diodes or  will I need to make other modifications to the circuit?
>>
>> Jimmie
>
> Typical OA3 is idling with between 5 and 40mA of current flowing
> through it, so make sure the zener string can dissipate the power.
> (75V * 0.040A = 3 watts worst case, but I'd expect less idle current
> in a grid bias regulator.).
>
> If this is a major redesign you might want to use a solid state series
> pass regulator (e.g. TL783 or the like) and probably get rid of that
> old wirewound pot in the bias circuit.
>
> 0A3's are not unobtanium, rare, or expensive. I kinda like seeing VR
> tubes around the PA, nice purple/pink glow dims and brightens as I
> key, and if they're not glowing then something's wrong.
The OA3 glows a bright orange since at 75 volts it would be using a pure
Neon gas mixture.  The other tubes in the series add some Argon, with
the 0D3/VR150 being pure Argon.  Argon glows blue to purple so the 0B3
and 0C3 tubes glow with a color somewhere in between orange and purple.



From 714538416204834378
X-Google-Thread: fc2a5,3e8770642166d67
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!e26g2000vbz.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: vr tube replacement
Date: Sun, 29 May 2011 11:15:41 -0700 (PDT)
```

Organization: http://groups.google.com
Lines: 37
Message-ID: <3bb46cee-f4bb-4280-96cf-3698cdcadb28@e26g2000vbz.googlegroups.com>
References: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
 <3846a2b4-23a9-4610-91f9-0b279b8b39a8@a7g2000vby.googlegroups.com>
NNTP-Posting-Host: 155.178.6.18
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1306692942 11558 127.0.0.1 (29 May 2011 18:15:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 29 May 2011 18:15:42 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e26g2000vbz.googlegroups.com; posting-host=155.178.6.18; posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: ARLUHCNK
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
 Trident/4.0; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4450

On May 29, 10:59=A0am, Tim Shoppa <sho...@trailing-edge.com> wrote:
> On May 29, 8:23=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
> > I want to replace the vr 0A3 tube used in the bias circuit of a 6146B
> > amp with a 75V zener string. Can I just directly replace the tube with
> > the diodes or =A0will I need to make other modifications to the circuit=
?
>
> > Jimmie
>
> Typical OA3 is idling with between 5 and 40mA of current flowing
> through it, so make sure the zener string can dissipate the power.
> (75V * 0.040A =3D 3 watts worst case, but I'd expect less idle current
> in a grid bias regulator.).
>
> If this is a major redesign you might want to use a solid state series
> pass regulator (e.g. TL783 or the like) and probably get rid of that
> old wirewound pot in the bias circuit.
>
> 0A3's are not unobtanium, rare, or expensive. I kinda like seeing VR
> tubes around the PA, nice purple/pink glow dims and brightens as I
> key, and if they're not glowing then something's wrong.

It draws about 30ma calculated by measuring the voltage drop across
the series dropping resistor. Once in a while it arcs, I think. I
tried another tube and that seemed to fix it for a while but it
started up again. There is a posssibility this is not the problem but
for now it seems most likely. If I can easily replace it with a zener
string I could be more sure that it is or isnt the cause. Plan for now
is to put 5 15V 1 watt zeners on a tube base I can plug into the
existing socket and see what happens. If that is the cause I will

readily invest in another tube because I think they look cool too.

Jimmie

Jimmie

```
From -623835600625097570
X-Google-Thread: fc2a5,41cc29a74585f7f1,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r33g2000prh.googlegroups.com!not-for-
mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: WORLD BEAUTIFUL PICS
Date: Sun, 29 May 2011 11:33:34 -0700 (PDT)
Organization: http://groups.google.com
Lines: 21
Message-ID: <d4c0b30a-5b3a-4e3f-a0df-9ef2a0d6f325@r33g2000prh.googlegroups.com>
NNTP-Posting-Host: 117.199.243.31
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1306694015 22776 127.0.0.1 (29 May 2011 18:33:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 29 May 2011 18:33:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r33g2000prh.googlegroups.com; posting-host=117.199.243.31;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.17)
 Gecko/20110420 Firefox/3.6.17,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4749
```

FOR GOOD STUDY MATERIAL
http://studymaterialforu.blogspot.com

KATRINA KAIF IN BEAUTIFUL RED DRESS
http://southactresstou.blogspot.com/2011/05/katrina-kaif_22.html
GOOD LOOKING DEEPIKA PADUKONE
http://southactresstou.blogspot.com/2011/05/deepika-padukone_22.html
AISHWARYA RAI UNBELIVABLE PHOTO
http://southactresstou.blogspot.com/2011/05/aishwarya-rai.html
ANUSKHA IN A BEAUTIFUL SAREE
http://southactresstou.blogspot.com/2011/05/anushka-shetty.html
SEXY TAPSEE IN VEERA
http://southactresstou.blogspot.com/2011/05/tapsee.html
KAJAL IN BEAUTIFUL BLACK SAREE

```
http://southactresstou.blogspot.com/2011/05/kajal-agarwal.html
             SNEHA SPICY PHOTOS
http://southactresstou.blogspot.com/2011/05/sneha.html
           NAMITHA HOT PHOTS
http://southactresstou.blogspot.com/2011/05/namitha.html




From -2689222879072081166
X-Google-Thread: fc2a5,3e8770642166d67
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 30 May 2011 18:20:05 -0500
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
In-Reply-To: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
Subject: Re: vr tube replacement
Date: Mon, 30 May 2011 16:20:01 -0700
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18417
Message-ID: <V8OdnUDHTty4u3nQnZ2dnUVZ5oednZ2d@giganews.com>
Lines: 16
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-vbYsNb6z/WToqFn8ClVxRDPMJ8wiJGj7KhtZoxkM/
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Z0z4ZZkBBabIuNPdwRnTElBpLnkHTorPAeCIRtyAMzAbBaGisSfPbDiEfxK3odksaUr1C89P+IU=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1958
Xref: g2news1.google.com rec.radio.amateur.homebrew:4453


"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
news:57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com...
>I want to replace the vr 0A3 tube used in the bias circuit of a 6146B
> amp with a 75V zener string. Can I just directly replace the tube with
```

> the diodes or will I need to make other modifications to the circuit?
>
> Jimmie

Don't know if I read all the responses, but I hope someone explained the
need to provide a series current limiting resistor in the zener string.
Something that would keep the no load current up near the top of the zener's
operating range would be good.

Old Chief Lynn, W7LTQ

```
From 808874058225268836
X-Google-Thread: fc2a5,3e8770642166d67
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!c41g2000yqm.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: vr tube replacement
Date: Mon, 30 May 2011 17:22:01 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <7ce77d25-949f-405b-a128-de6daed7a10a@c41g2000yqm.googlegroups.com>
References: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
 <V8OdnUDHTty4u3nQnZ2dnUVZ5oednZ2d@giganews.com>
NNTP-Posting-Host: 99.65.160.151
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Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1306801321 28533 127.0.0.1 (31 May 2011 00:22:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 31 May 2011 00:22:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c41g2000yqm.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.19)
 Gecko/20110420 SeaMonkey/2.0.14,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4454
```

On May 30, 7:20=A0pm, "coffelt2" <coffe...@comcast.net> wrote:
> "JIMMIE" <JIMMIEDEE...@YAHOO.COM> wrote in message
>
> news:57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com...
>
> >I want to replace the vr 0A3 tube used in the bias circuit of a 6146B
> > amp with a 75V zener string. Can I just directly replace the tube with

```
> > the diodes or =A0will I need to make other modifications to the circuit=
?
>
> > Jimmie
>
> Don't know if I read all the responses, but I hope someone explained the
> need to provide a series current limiting resistor in the zener string.
> Something that would keep the no load current up near the top of the zene=
r's
> operating range would be good.
>
> Old Chief Lynn, W7LTQ

Hey OM:
I take a DC supply from the filament voltage and use that to power a
programmable zener TL431. and use a FET to replace the OA3 driven by
the TL431.

I've replaced OA2's this way, all it takes is three 1/2 watt resistors
to set the voltage.

73 OM

de n8zu



From -7451892366718350500
X-Google-Thread: fc2a5,3e8770642166d67
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!z33g2000yqb.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: vr tube replacement
Date: Mon, 30 May 2011 17:56:42 -0700 (PDT)
Organization: http://groups.google.com
Lines: 34
Message-ID: <8d03ea47-1543-46f0-ae71-cd80cc5a0614@z33g2000yqb.googlegroups.com>
References: <57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com>
 <V8OdnUDHTty4u3nQnZ2dnUVZ5oednZ2d@giganews.com>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1306803402 18097 127.0.0.1 (31 May 2011 00:56:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 31 May 2011 00:56:42 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z33g2000yqb.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
```

```
X-Google-Web-Client: true
X-Google-Header-Order: HUALESNKRC
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.19)
 Gecko/20110420 SeaMonkey/2.0.14,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4752

On May 30, 7:20=A0pm, "coffelt2" <coffe...@comcast.net> wrote:
> "JIMMIE" <JIMMIEDEE...@YAHOO.COM> wrote in message
>
> news:57ab3071-86c7-4194-881b-1186ecb3b9c8@cu4g2000vbb.googlegroups.com...
>
> >I want to replace the vr 0A3 tube used in the bias circuit of a 6146B
> > amp with a 75V zener string. Can I just directly replace the tube with
> > the diodes or =A0will I need to make other modifications to the circuit=
?
>
> > Jimmie
>
> Don't know if I read all the responses, but I hope someone explained the
> need to provide a series current limiting resistor in the zener string.
> Something that would keep the no load current up near the top of the zene=
r's
> operating range would be good.
>
> Old Chief Lynn, W7LTQ

Hey OM:


That resistor is part of the OA3 circuit. All you need is noisy zeners
that can handle the current. You would need 3 watts worth of zeners.
Three 25 volt 1 watt zeners, or five 15 volt 1 watt would give you
more head room. Or 15, 5 volt 1/2 watt zeners, or 1/4 watt. Put 15 SMD
5volt 1/4 watt zeners between the 2 pins on an octal plug, pin 2
connect the anode of the zener string and pin 5 connect the cathode of
the zener string. If you are lucky you can find a 5 watt 75 volt zener

73 OM

de n8zu



From 4069582900861583531
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
```

85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: Joe from Kokomo <joe@indy.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
Date: Fri, 15 Apr 2011 23:36:44 -0400
Organization: A noiseless patient Spider
Lines: 107
Message-ID: <iob2sd$df6$2@dont-email.me>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
<io5h0n$d1t$1@dont-email.me> <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>
<io6qjp$efs$4@dont-email.me> <1KadnQfnyKwD7zrQnZ2dnUVZ_jmdnZ2d@bright.net>
<4da7a394$0$6702$8046368a@newsreader.iphouse.net> <io9djf$7dc$2@dont-email.me>
<4da8f54b$0$87584$8046368a@newsreader.iphouse.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 16 Apr 2011 03:36:46 +0000 (UTC)
Injection-Info: mx01.eternal-september.org; posting-host="JDpQ0605zkBMrhoRC5f2ZQ";
logging-data="13798"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX18WtryNKNTZAeFgLjOVT99jIZVa7hHt6c0="
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
In-Reply-To: <4da8f54b$0$87584$8046368a@newsreader.iphouse.net>
Cancel-Lock: sha1:KZGksgAk9OFP/3knq1fraJPkBJY=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4352
rec.radio.amateur.antenna:21107 rec.radio.shortwave:83046

> On 4/15/2011 7:27 AM, Joe from Kokomo wrote:
>>
>> tom, just my personal opinion, but too bad you left the ARRL and too bad
>> you don't care.
>>
>> I don't know about your "2 to 5%" figure, but even if it is true, it's
>> exactly 2 to 5% more than any other organization is spending to go to
>> bat for ham radio...and IMHO, we NEED (and should support) a national
>> organization.
>>
>> 73,
>> Joe

On 4/15/2011 9:47 PM, tom wrote:

> The ARRL seems to have little to do with the most important part of
> getting new hams, licensing.

Huh? It's really not clear what you are saying. Have you visited the
ARRL web site?

Here are some of the sections they have listed relating to developing new hams under the "Licensing, Education & Training" tab:

*FCC License Info & Forms

ARRL can provide helpful FCC information about licensing requirements, forms, fees and regulations.

*Getting Licensed

Get the information you need to get started: find a class or study materials and prepare for your licensing exam. Already licensed? Take the next step and upgrade.

*Volunteer Examiner Coordinator

The ARRL Volunteer Examiner Coordinator (VEC) offers resources for finding an exam session, becoming a volunteer examiner and VE Team support.

*Volunteer Instructors/Mentors

*ARRL Courses & Training

ARRL training materials and online classes have been developed to help you learn at your own pace.

*FCC License Info & Forms

ARRL can provide helpful FCC information about licensing requirements, forms, fees and regulations.

*Get on the Air

You've got your license, now what? Find resources to help you set up your first station, get on the air and have fun! Learn More

Volunteer opportunities, recruitment and unique ways to support Amateur Radio advocacy.

    o Amateur Radio in the Classroom

This sure seems like a lot of stuff for a group that you claim is not supposed to be interested in beginners.

> The National VEC page, http://www.ncvec.org, apparently doesn't even
> acknowledge the ARRL.

Again, huh? This site is "unto themselves". They don't seem to acknowledge ANY group except themselves. Sorry, but IMHO, a totally bogus point.

> So much for making new hams.

One more time...Huh?

They DO have a VE program (I AM one), they have an Educational program to bring ham radio to kids in the class room, they set up space station contacts for kids in classrooms, they have a Volunteer Instructor program to teach people how to be instructors for training new hams, they have volunteer mentors, almost every article in QST has a "Hamspeak" section to explain unique ham terms to beginners.

Finally, what makes you think they don't want new hams? It would be in their best interest and longevity to have more new hams. Why would they shoot themselves in the foot by not wanting new hams?

The only thing that IS clear to me is that you have not read QST in a long time, have not been to their web site in a long time and seem to have a real grudge against them for whatever reason (certainly your prerogative). But you DO demonstrably have your facts wrong about them doing nothing to encourage new hams.

I would respectfully suggest that you visit their site, arrl.org, and at the main page choose the "Licensing, Education and Training" tab to see just how much they ARE doing to cultivate new hams. (Admittedly a tough job in the Internet Age, but contrary to what you are saying, they ARE trying).

73,
Joe

From -4560914860241445188
X-Google-Thread: fc2a5,a0da2725114463e2,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k3g2000prl.googlegroups.com!not-for-mail
From: bgfbfjgg ojdhdsd <uijsbhsbchsv@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT SEX BED ROOM VIDEOS AND 200 BEST ACTRESSES PHOTOS
Date: Fri, 15 Apr 2011 22:13:52 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
Message-ID: <185f710e-c199-4744-bc7f-df80f5aa3307@k3g2000prl.googlegroups.com>
NNTP-Posting-Host: 117.199.243.35
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1302930833 26328 127.0.0.1 (16 Apr 2011 05:13:53 GMT)
X-Complaints-To: groups-abuse@google.com

NNTP-Posting-Date: Sat, 16 Apr 2011 05:13:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k3g2000prl.googlegroups.com; posting-host=117.199.243.35; posting-account=VkOAtQoAAACEcOLC5-eHi1eJjZH4zy38
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16) Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4353

ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

for more hot videos

http://videosonblog.blogspot.com/2010/11/masala-videos.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

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From 2650563780169911980
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!u12g2000vbf.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
Date: Fri, 15 Apr 2011 22:43:07 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <4679c8f8-0e98-4e9d-9de2-eda72cce5019@u12g2000vbf.googlegroups.com>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1302932587 12009 127.0.0.1 (16 Apr 2011 05:43:07 GMT)
X-Complaints-To: groups-abuse@google.com
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Complaints-To: groups-abuse@google.com
Injection-Info: u12g2000vbf.googlegroups.com; posting-host=99.65.160.151; posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
```

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X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.18)
 Gecko/20110320 SeaMonkey/2.0.13,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4651
rec.radio.amateur.antenna:22886 rec.radio.shortwave:89757
```

On Apr 12, 5:13=A0pm, "amdx" <a...@knology.net> wrote:
> I have a 22 lb box of QEX magazines from June 1982 to 1994.
> About 140 issues. I don't know if they are all there but most are.
> If anyone is interested in them, $10 plus shipping from 32405.
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Email me if interested.
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0Mikek

Hey OM:
wtf we going to do now they not going to be making Japanese radios'
anymore?

73
den8zu

```
From -8277139302734939062
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!u12g2000vbf.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
Date: Fri, 15 Apr 2011 22:46:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 36
Message-ID: <16993152-bc5d-4f18-b042-1c8ea81536a9@u12g2000vbf.googlegroups.com>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET> <4679c8f8-0e98-4e9d-9de2-
eda72cce5019@u12g2000vbf.googlegroups.com>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1302932799 6291 127.0.0.1 (16 Apr 2011 05:46:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 16 Apr 2011 05:46:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u12g2000vbf.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.18)
 Gecko/20110320 SeaMonkey/2.0.13,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4652
rec.radio.amateur.antenna:22887 rec.radio.shortwave:89758

On Apr 16, 1:43=A0am, raypsi <rborow...@gmail.com> wrote:
> On Apr 12, 5:13=A0pm, "amdx" <a...@knology.net> wrote:
>
> > I have a 22 lb box of QEX magazines from June 1982 to 1994.
> > About 140 issues. I don't know if they are all there but most are.
> > If anyone is interested in them, $10 plus shipping from 32405.
> > =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Email me if interested.
> > =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0Mikek
>
> Hey OM:
> wtf we going to do now they not going to be making Japanese radios'
> anymore?
>
> 73

Those jap radio's sure will be hot

73 de  n8zu
```

```
From 7078889118622500369
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
```

```
Path: g2news1.google.com!postnews.google.com!l36g2000vbp.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
Date: Fri, 15 Apr 2011 22:49:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 24
Message-ID: <694527ca-b4db-4826-b3eb-e5169e5f5693@l36g2000vbp.googlegroups.com>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET> <4679c8f8-0e98-4e9d-9de2-
eda72cce5019@u12g2000vbf.googlegroups.com>
 <16993152-bc5d-4f18-b042-1c8ea81536a9@u12g2000vbf.googlegroups.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1302932944 7601 127.0.0.1 (16 Apr 2011 05:49:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 16 Apr 2011 05:49:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l36g2000vbp.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.18)
 Gecko/20110320 SeaMonkey/2.0.13,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4356
rec.radio.amateur.antenna:21110 rec.radio.shortwave:83057

On Apr 16, 1:46=A0am, raypsi <rborow...@gmail.com> wrote:
> On Apr 16, 1:43=A0am, raypsi <rborow...@gmail.com> wrote:
>
> > On Apr 12, 5:13=A0pm, "amdx" <a...@knology.net> wrote:
>
> > > I have a 22 lb box of QEX magazines from June 1982 to 1994.
> > > About 140 issues. I don't know if they are all there but most are.
> > > If anyone is interested in them, $10 plus shipping from 32405.
> > > =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Email me if interested.
> > > =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0Mikek
>
> > Hey OM:
> > wtf we going to do now they not going to be making Japanese radios'
> > anymore?
>
> > 73
>
> Those jap radio's sure will be hot
>
> 73 de =A0n8zu

And the radio's that  aint hot will be hotter,

de n8zu
```

From 4005067880173102З1
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: John KD5YI <sophi.2@invalid.org>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
Date: Sat, 16 Apr 2011 00:56:34 -0500
Organization: A noiseless patient Spider
Lines: 18
Message-ID: <iobb2v$ft3$1@dont-email.me>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET> <4679c8f8-0e98-4e9d-9de2-
eda72cce5019@u12g2000vbf.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 16 Apr 2011 05:56:47 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="R1JcZqQrnJVzF0KrDRtdjQ";
     logging-data="16291"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19jMLTvJ0vRtJh01I69FHY7"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
In-Reply-To: <4679c8f8-0e98-4e9d-9de2-eda72cce5019@u12g2000vbf.googlegroups.com>
Cancel-Lock: sha1:TydMWgnJvcJw106Dux1GyIPJ0p8=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4654
rec.radio.amateur.antenna:22889 rec.radio.shortwave:89760

On 4/16/2011 12:43 AM, raypsi wrote:
> On Apr 12, 5:13 pm, "amdx"<a...@knology.net> wrote:
>> I have a 22 lb box of QEX magazines from June 1982 to 1994.
>> About 140 issues. I don't know if they are all there but most are.
>> If anyone is interested in them, $10 plus shipping from 32405.
>>   Email me if interested.
>>   Mikek
>
> Hey OM:
> wtf we going to do now they not going to be making Japanese radios'
> anymore?
>
> 73
> den8zu

QEX is a magazine. They never made radios, Japanese or otherwise.

John

```
From 3136872137907232005
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad!
news.dslextreme.com!not-for-mail
Date: Sat, 16 Apr 2011 05:33:37 -0700
From: dave <dave@dave.dave>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.15) Gecko/20110303
Thunderbird/3.1.9
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Gordon West is my hero
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
<io5h0n$d1t$1@dont-email.me> <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>
<io6qjp$efs$4@dont-email.me> <1KadnQfnyKwD7zrQnZ2dnUVZ_jmdnZ2d@bright.net>
<4da7a394$0$6702$8046368a@newsreader.iphouse.net> <io9djf$7dc$2@dont-email.me>
<ZMWdnR3xrKgSVDXQnZ2dnUVZ_h-dnZ2d@bright.net> <ioao14$bhn$3@dont-email.me>
<ioaoho$d8m$1@dont-email.me> <LKmdnQhDvKe5ljTQnZ2dnUVZ_tmdnZ2d@bright.net>
In-Reply-To: <LKmdnQhDvKe5ljTQnZ2dnUVZ_tmdnZ2d@bright.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 16
Message-ID: <4da98c69$0$12454$bd467cd0@news.dslextreme.com>
Organization: dslextreme.com
X-Complaints-To: abuse@dslextreme.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:4358
rec.radio.amateur.antenna:21113 rec.radio.shortwave:83069
```

On 04/15/2011 08:21 PM, Scott wrote:
> On 4-16-2011 00:40, Kenneth Scharf wrote:
>
>> All of you are also forgetting that the ARRL (for better or worse) is
>> now the 'back bone' of the system that handles testing for ham licenses.
>> Without them it would be almost impossible to find where you can locally
>> take the test to apply for or upgrade your ham ticket.
>

```
> Don't forget W5YI as a VEC. That's who I'm affiliated with, although I'm
> not active with any VEC at present. They list VEs by state, so you can
> find a local examiner.
> http://www.w5yi.org/exam_locations_ama.php
>


.



From 1549376930707529500
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!22g2000prx.googlegroups.com!not-for-
mail
From: RHF <rhf-newsgroups@pacbell.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Why-Not ? : A "Voice of Amateur Radio" PAC Fund !
Date: Sat, 16 Apr 2011 14:17:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 116
Message-ID: <bb4721b6-1a69-491e-a769-7f3792e718f6@22g2000prx.googlegroups.com>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com>
 <7bkg78-284.ln1@mikea.ath.cx> <io5egg$i7c$1@dont-email.me>
 <4da63e7e$0$12458$bd467cd0@news.dslextreme.com> <io5h0n$d1t$1@dont-email.me>
 <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net> <io6qjp$efs$4@dont-email.me>
 <1KadnQfnyKwD7zrQnZ2dnUVZ_jmdnZ2d@bright.net>
<4da7a394$0$6702$8046368a@newsreader.iphouse.net>
 <io9djf$7dc$2@dont-email.me> <ZMWdnR3xrKgSVDXQnZ2dnUVZ_h-dnZ2d@bright.net>
 <ioao14$bhn$3@dont-email.me> <ysSdne2O6ZHelDTQnZ2dnUVZ_gidnZ2d@bright.net>
NNTP-Posting-Host: 69.225.93.180
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1302988658 11381 127.0.0.1 (16 Apr 2011 21:17:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 16 Apr 2011 21:17:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 22g2000prx.googlegroups.com; posting-host=69.225.93.180; posting-
account=sXdt0QkAAADnWX7qexSpwEu6RhprtPN6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:2.0) Gecko/20100101 Firefox/
4.0,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4359
```

```
rec.radio.amateur.antenna:21114 rec.radio.shortwave:83125

On Apr 15, 8:13=A0pm, Scott <acepilotREM...@bloomer.net> wrote:
> On 4-16-2011 00:31, Joe from Kokomo wrote:
>
> > On 4/15/2011 6:41 PM, Scott wrote:
>
> >> Why? If every ham just wrote to their elected officials (for the cost =
of
> >> a stamp, or free by email), they would get the message just as well, i=
f
> >> not better than, if they got 1 letter or a personal visit from the ARR=
L
> >> "lobbyist".
>
> > Just my personal opinion, but I believe it is quite naive to think that
> > if "every ham just wrote". Extremely unlikely...and oh, if not the ARRL=
,
> > just who do you think is going to tell the hams to write and what to
> > write about?
>
> Well, if hams won't take any initiative to write their Congressmen, then
> they probably don't give two craps enough to really care if we lose
> bandwidth. =A0All proposed NPRMs are published in the Federal Register an=
d
> a simple search on their website for "FCC" will list them.http://frwebgat=
e.access.gpo.gov/cgi-bin/multidb.cgi
>
>
>
> > Finally, it's quite naive to think that a national lobbying organizatio=
n
> > is not helpful -- just look at how successful the NRA is.
>
> So, the ARRL is donating how much to political parties?
>
> The NRA has donated a bit over $18 million from 1989-2010. =A0They were
> number 39 of the top 140 donors...
> 39 National Rifle Assn =A0$18,209,746 =A0 =A0 17%(To Dems) =A0 =A082% (To=
 Repubs)
> THAT'S probably why they are so successful. =A0Money talks, BS Walks...
>
> http://www.opensecrets.org/orgs/list.php
>
> Didn't see the ARRL in the top 140. =A0Searched and didn't find them on
> the list at all. =A0#140 donated about $4.7 million over the same period.
>
> If the ARRL is so successful at lobbying, why did BPL go through even
> though they begged members to send more money to fight against it and
> lost the battle anyway? =A0Remember when the 13cm band used to be
> 2300-2450 MHz? =A0I do. =A0Remember when the 1.25M band used to be 220-22=
5
> MHz. =A0I do. =A0Remember when a lot of foreign countries had no code
```

> requirement for HF and we did? =A0I do.
>
> I'm not saying they aren't worth something, but why won't they give a
> guy a choice about which magazine he wants with his membership?
> Probably because QEX doesn't have so many ads as QST and they want the
> advertisers to get more bang for their buck (understandably, since they
> can charge more for ad space based on the number of magazine "subscribers=
")

IF The ARRL want to have a real "Voice" at the Table
in Congress and at the FCC :Then they have to be as
'smart' as the other "Players" in the Washington, DC
Political 'Action' {Power} Game.

Look At Success : Look at the NRA Political Victory
Fund (NRA-PVF) : http://www.nrapvf.org/

You have and build your 'basic' ARRL Membership
-roughly- 155,000 ARRL Members
http://www.arrl.org/membership

+ Plus you have to have and build a supporting
{Independent} "Voice of Amateur Radio" PAC Fund

The ARRL has enough Members who are Lawyers
set-up and make a "Voice of Amateur Radio" PAC
Fund Do-Able and Work-Able -so- Just Do It !

Encourage Each ARRL Member to make a
Matching {Voluntary} Contribution to the
"Voice of Amateur Radio" [VoAR] PAC Fund
-so- Take the 155,000 ARRL Members
-by- $5 =3D $775,000 VoAR-PAC Fund : Figure about
20% for a Part-Time Lobbyist and leaves around
$1000 in 'political' contributions per Member of Congress
-by- $10 =3D $1,555,000 VoAR-PAC Fund : Figure about
20% for a Part-Time Lobbyist and leaves around $2000
in 'political' contributions per Member of Congress

? Is Your Amateur [Ham] Radio "Hobby" Worth an
Extra $5 to $10 per Year To You For A Seat At The
Table of Congress and the FCC in Washington, DC ?

Promote the "Voice of Amateur Radio" PAC Fund
to the American Public and the Corporate World
Git Them To Become Sponsors and Underwriters
of the "Voice of Amateur Radio" PAC Fund too.

Then Use the "Voice of Amateur Radio" PAC Fund
Money to Lobby Congress and the FCC to ensure
Fairness and Equal Treatment for Amateur Radio
in Congress and Before the FCC.

It's All Legal & It's All Good - it's very smart too ~ RHF
.
REALITY CHECK : WITH ONLY 155,000 MEMBERS
THE ARRL HAS THREE GOALS :
1st : Build Membership and Increase the Number of Hams
-or-lose-spectrum-and-vanish-from-the-air-waves-
2nd : Build Membership and Increase the Number of Hams
-or-lose-spectrum-and-vanish-from-the-air-waves-
3rd : Build Membership and Increase the Number of Hams
-or-lose-spectrum-and-vanish-from-the-air-waves-
.
.

```
From -5346047599794520309
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!usenet-
fr.net!de-l.enfer-du-nord.net!feeder1.enfer-du-nord.net!news.glorb.com!
news2.glorb.com!news-out.octanews.net!indigo.octanews.net!
news-1.mpls.iphouse.net.POSTED!not-for-mail
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
From: Bert Hyman <bert@iphouse.com>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
<io5h0n$d1t$1@dont-email.me> <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>
<io6qjp$efs$4@dont-email.me> <1KadnQfnyKwD7zrQnZ2dnUVZ_jmdnZ2d@bright.net>
<4da7a394$0$6702$8046368a@newsreader.iphouse.net> <io9djf$7dc$2@dont-email.me>
<ZMWdnR3xrKgSVDXQnZ2dnUVZ_h-dnZ2d@bright.net> <ioao14$bhn$3@dont-email.me>
<ysSdne2O6ZHelDTQnZ2dnUVZ_gidnZ2d@bright.net>
Organization: Not that you'd notice
Message-ID: <Xns9EC9A751F41EDVeebleFetzer@216.250.188.140>
User-Agent: Xnews/2006.08.24
Date: 16 Apr 2011 21:26:53 GMT
Lines: 19
NNTP-Posting-Date: 16 Apr 2011 16:26:53 CDT
NNTP-Posting-Host: 0720e22e.newsreader.iphouse.net
X-Trace: DXC=ol?
YIUjGGXBm<]<06FPg1NUU[C:R=]MbJeHS>e[L>83@0TEUlHKMP_O9Fh_j72PY^E9l1]MP\
[BHLIlCDN;iL73L
X-Complaints-To: abuse@iphouse.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:4360
rec.radio.amateur.antenna:21115 rec.radio.shortwave:83128
```

In news:ysSdne2O6ZHelDTQnZ2dnUVZ_gidnZ2d@bright.net Scott
<acepilotREMOVE@bloomer.net> wrote:

> So, the ARRL is donating how much to political parties?
>
> The NRA has donated a bit over $18 million from 1989-2010. They were
> number 39 of the top 140 donors...

The NRA has spun off an entire "separate" organization to do that, since
the tax status of the basic organization doesn't allow it.

The NRA also has about 4 million members; how many does ARRL have?

http://www.nraila.org/

http://www.arrl.org/political-campaigns-and-the-arrl

--
Bert Hyman   W0RSB   St. Paul, MN bert@iphouse.com

From 3410074699729964334
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-02!
easynews.com!en-nntp-03.dc1.easynews.com.POSTED!not-for-mail
From: MTV <volztexas@comcast.net>
Reply-To: volzmtv@comcast.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Why-Not ? : A "Voice of Amateur Radio" PAC Fund !
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<ZMWdnR3xrKgSVDXQnZ2dnUVZ_h-dnZ2d@bright.net> <ioao14$bhn$3@dont-email.me>
<ysSdne2O6ZHelDTQnZ2dnUVZ_gidnZ2d@bright.net> <bb4721b6-1a69-491e-
a769-7f3792e718f6@22g2000prx.googlegroups.com>
In-Reply-To: <bb4721b6-1a69-491e-a769-7f3792e718f6@22g2000prx.googlegroups.com>

Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 125
Message-ID: <e%oqp.35367$Rx1.16170@en-nntp-03.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Sat, 16 Apr 2011 17:46:27 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:4658 rec.radio.amateur.antenna:22894 rec.radio.shortwave:89835

BPL has NOT "gone through."

The ARRL DOES lobby in D.C. - Chwat & Co., Alexandria,VA
Plus direct HQ access to the FCC commissioners and staff.

Your contributions are regularly requested, plus the most effective, personal letters to our representatives.

"non-profit" organizations do have restrictions on how money is spent, e.g. no money to political campaigns, etc.

http://www.arrl.org/regulatory-advocacy

W5MTV

On 4/16/2011 4:17 PM, RHF wrote:
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>>
>>
>>

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>> http://www.opensecrets.org/orgs/list.php
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> Look At Success : Look at the NRA Political Victory
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> You have and build your 'basic' ARRL Membership
> -roughly- 155,000 ARRL Members
> http://www.arrl.org/membership
>
> + Plus you have to have and build a supporting
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> The ARRL has enough Members who are Lawyers
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> Matching {Voluntary} Contribution to the
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> Extra $5 to $10 per Year To You For A Seat At The
> Table of Congress and the FCC in Washington, DC ?
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>   .
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From 8623335516287137195
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!j9g2000prj.googlegroups.com!not-for-mail
From: RHF <rhf-newsgroups@pacbell.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Why-Not ? : A "Voice of Amateur Radio" PAC Fund !
Date: Sat, 16 Apr 2011 16:23:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 170
Message-ID: <6dda1c90-3270-4add-863f-2dbbf61f76a2@j9g2000prj.googlegroups.com>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com>
 <7bkg78-284.ln1@mikea.ath.cx> <io5egg$i7c$1@dont-email.me>
 <4da63e7e$0$12458$bd467cd0@news.dslextreme.com> <io5h0n$d1t$1@dont-email.me>

 <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net> <io6qjp$efs$4@dont-email.me>
 <1KadnQfnyKwD7zrQnZ2dnUVZ_jmdnZ2d@bright.net>
<4da7a394$0$6702$8046368a@newsreader.iphouse.net>
 <io9djf$7dc$2@dont-email.me> <ZMWdnR3xrKgSVDXQnZ2dnUVZ_h-dnZ2d@bright.net>
 <ioao14$bhn$3@dont-email.me> <ysSdne2O6ZHelDTQnZ2dnUVZ_gidnZ2d@bright.net>
 <bb4721b6-1a69-491e-a769-7f3792e718f6@22g2000prx.googlegroups.com>
<e%oqp.35367$Rx1.16170@en-nntp-03.dc1.easynews.com>
NNTP-Posting-Host: 69.225.93.180
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1302996185 26067 127.0.0.1 (16 Apr 2011 23:23:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 16 Apr 2011 23:23:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j9g2000prj.googlegroups.com; posting-host=69.225.93.180; posting-account=sXdt0QkAAADnWX7qexSpwEu6RhprtPN6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows NT 5.1; rv:2.0) Gecko/20100101 Firefox/4.0,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4362
rec.radio.amateur.antenna:21117 rec.radio.shortwave:83136

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- e.g. no money to political campaigns, etc.
-
- http://www.arrl.org/regulatory-advocacy
-
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W5MTV --- Hence "Look At {Better} Success" :
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The Are More and Bigger Challenges To Amateur Radio Then
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From 2068157095910346330
X-Google-Thread: fc2a5,6d25d11d4a56666b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: My latest homebrew project....
Date: Sat, 16 Apr 2011 22:12:56 -0400
Organization: A noiseless patient Spider
Lines: 33
Message-ID: <iodibe$t5j$1@dont-email.me>
Mime-Version: 1.0
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     logging-data="29875"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/w2sVWr2HiBepB86WAipS379hdKjunjnk="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.14) Gecko/20110223
Thunderbird/3.1.8
Cancel-Lock: sha1:oy82Z7NMMFRv8tjp0LE+NiXOWIc=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4660
```

Ever since I got my ham ticket (in 1970) I've always wanted to build a complete transceiver. (I DID build a Heathkit SB102). The project always seemed a bit too complex though. The problem was I couldn't build it a piece at a time, and be able to then put all the bits in a box. In order to do that I'd have to design the entire rig ahead of time so all the subsystems could have access to the panel for their controls.

Fast forward. Today what with micro-controllers and control by wire parts (such as varicap diodes, digital pots, dds chips, etc) all the subsystems can go anywhere and you only have to have room in the box for all of them.

I've started designing a home brew transceiver around a few modules I've seen on line and in various magazines. I've got a DDS-60 for my VFO and I'm programming an Atmel atmega32 processor to control it. A Bandpass filter design by PA3AKE using toroids, an IF amplifier by W7ZOI and WA7MLH using fets and bipolar transistors, and a product detector (from a direct conversion receiver) by KK7B will form the basis for the receiver. I have some 9 mhz if filters purchased at Dayton many years ago. The transmitter stages will be based on 'stock' HB circuits. Later I might add KK7P's DSP unit with the PicaStar software.

So far I have the DDS working and I've built the KK7B product detector and audio filter board. I still have to build his audio amplifier circuit (I divided the project into two circuit boards). I started working on a cabinet to house the completed rig in. I had a nice surplus cabinet purchased in NYC back in the 1970's in my junk box just waiting for a project. Over the past two weeks I've been cutting openings in the front panel for the controls, LCD, and keypad. I still have to repaint the panel and the cabinet (40 years of storage hasn't helped the finish!).

```
From -8684360485751723621
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X-Google-Thread: fcc6e,c213f1a48d8259ed
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X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
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X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!postnews.google.com!
b13g2000prf.googlegroups.com!not-for-mail
From: bpnjensen <bpnjensen@yahoo.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Why-Not ? : A "Voice of Amateur Radio" PAC Fund !
Date: Sat, 16 Apr 2011 23:14:33 -0700 (PDT)
Organization: http://groups.google.com
Lines: 182
Message-ID: <57a86d3f-8a55-4719-bfcf-bc548423006a@b13g2000prf.googlegroups.com>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com>
 <7bkg78-284.ln1@mikea.ath.cx> <io5egg$i7c$1@dont-email.me>
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1303020874 26664 127.0.0.1 (17 Apr 2011 06:14:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 17 Apr 2011 06:14:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b13g2000prf.googlegroups.com; posting-host=67.180.212.149;
posting-account=EL5xowkAAACy05lmDr3Uj3WAAFbMcvtz
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US)
 AppleWebKit/534.16 (KHTML, like Gecko) Chrome/10.0.648.204 Safari/
534.16,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4661
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> > > =A0 .

What hams need are wealthy, high-profile members - like the NRA and AARP. They may be small, but fascinating people, even if they are stooges, can yield results.

```
From 1944497053607181936
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X-Google-Attributes: gid241b302a50,gid4baf9708d4,domainid0,public,usenet
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Path: g2news2.google.com!news3.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: atec77 <atec77@hotmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Why-Not ? : A "Voice of Amateur Radio" PAC Fund !
Date: Sun, 17 Apr 2011 21:07:23 +1000
Organization: A noiseless patient Spider
Lines: 70
Message-ID: <ioehle$hd8$1@dont-email.me>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
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<ZMWdnR3xrKgSVDXQnZ2dnUVZ_h-dnZ2d@bright.net> <ioao14$bhn$3@dont-email.me>
<ysSdne2O6ZHelDTQnZ2dnUVZ_gidnZ2d@bright.net> <bb4721b6-1a69-491e-
a769-7f3792e718f6@22g2000prx.googlegroups.com> <e%oqp.35367$Rx1.16170@en-
nntp-03.dc1.easynews.com>
<6dda1c90-3270-4add-863f-2dbbf61f76a2@j9g2000prj.googlegroups.com>
<57a86d3f-8a55-4719-bfcf-bc548423006a@b13g2000prf.googlegroups.com>
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Injection-Date: Sun, 17 Apr 2011 11:07:27 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="boEWUuaP+eHgRsXSv318Bg";
     logging-data="17832"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19vAajy8/8YJfnfEOk3pvGK"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-GB; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
In-Reply-To: <57a86d3f-8a55-4719-bfcf-bc548423006a@b13g2000prf.googlegroups.com>
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Cancel-Lock: sha1:97f7lOK7qdWd6CIy/GRoJYo14ns=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4662
rec.radio.amateur.antenna:22899 rec.radio.shortwave:89884

On 17/04/2011 4:14 PM, bpnjensen wrote:
> On Apr 16, 4:23 pm, RHF<rhf-newsgro...@pacbell.net> wrote:
>> On Apr 16, 3:46 pm, MTV<volzte...@comcast.net> wrote:
>> - BPL has NOT "gone through."
>> -
>> - The ARRL DOES lobby in D.C. - Chwat& Co., Alexandria,VA
>> - Plus direct HQ access to the FCC commissioners and staff.
>> -
>> - Your contributions are regularly requested, plus the most effective,
>> - personal letters to our representatives.
>> -
>> - "non-profit" organizations do have restrictions on how money is
>> spent,
>> - e.g. no money to political campaigns, etc.
>> -
>> -http://www.arrl.org/regulatory-advocacy
>> -
>> - W5MTV
>>
>> W5MTV --- Hence "Look At {Better} Success" :
>> Look at the NRA Political Victory
>> Fund (NRA-PVF) :http://www.nrapvf.org/
>>
>> The Are More and Bigger Challenges To Amateur Radio Then
>> Just BPL : Such As Lose of RF Spectrum and Radio Bands.http://www.arrl.org/files/file/Hambands_color.pdf
>>
>> Simple Fact : With just 155,000 Members the ARRL
>> is a relatively 'small' Constituency Group for anyone
>> Congressman or Senator; and the US Congress as a
>> whole; as contrasted to :
>> * NRA ~ 4 Million Members [25X ARRL]
>> * AARP ~ 40 Million Members [250X ARRL]
>> Both of Which Claim To Be "Non-Profit" Organizations too...
>>
>> Again I Simply Posse The Question :
>> Why-Not ? : A "Voice of Amateur Radio" PAC Fund !http://groups.google.com/group/rec.radio.shortwave/msg/15807e1c0a01df1c
>>   .
>>   .> On 4/16/2011 4:17 PM, RHF wrote:
>>
>> Look At Success : Look at the NRA Political Victory
>> Fund (NRA-PVF) :http://www.nrapvf.org/
>>
>>
>>
>>
>>
>>

```
>>
>>
>>
>>>> On Apr 15, 8:13 pm, Scott<acepilotREM...@bloomer.net>    wrote:
>>>>> On 4-16-2011 00:31, Joe from Kokomo wrote:
>>
>>>>>> On 4/15/2011 6:41 PM, Scott wrote:
>>
>

>>>>    .
>
> What hams need are wealthy, high-profile members - like the NRA and
> AARP.  They may be small, but fascinating people, even if they are
> stooges, can yield results.


So you need a dozen younger Barry Goldwaters ?
  or a 2nd organisation same as here because the incumbent are hopeless

--
X-No-Archive: Yes




From 5501281341224275632
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad!
news.dslextreme.com!not-for-mail
Date: Sun, 17 Apr 2011 06:21:36 -0700
From: dave <dave@dave.dave>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.15) Gecko/20110303
Thunderbird/3.1.9
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Kids Don't Kill Each Other With 2 Way Radios
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
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<io6qjp$efs$4@dont-email.me> <1KadnQfnyKwD7zrQnZ2dnUVZ_jmdnZ2d@bright.net>
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In-Reply-To: <bb4721b6-1a69-491e-a769-7f3792e718f6@22g2000prx.googlegroups.com>
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Lines: 11
Message-ID: <4daae926$0$12460$bd467cd0@news.dslextreme.com>
Organization: dslextreme.com
X-Complaints-To: abuse@dslextreme.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:4366
rec.radio.amateur.antenna:21122 rec.radio.shortwave:83196

On 04/16/2011 02:17 PM, RHF wrote:

>
> *IF* The ARRL want to have a real "Voice" at the Table
> in Congress and at the FCC :Then they have to be as
> 'smart' as the other "Players" in the Washington, DC
> Political 'Action' {Power} Game.
>
> Look At Success : Look at the NRA Political Victory
> Fund (NRA-PVF) : http://www.nrapvf.org/
>



From -9051299314584378557
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X-Google-NewGroupId: yes
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X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad!
news.dslextreme.com!not-for-mail
Date: Sun, 17 Apr 2011 06:30:04 -0700
From: dave <dave@dave.dave>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.15) Gecko/20110303
Thunderbird/3.1.9
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Think of ham radio as a well regulated electronic militia
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
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<ZMWdnR3xrKgSVDXQnZ2dnUVZ_h-dnZ2d@bright.net> <ioao14$bhn$3@dont-email.me>
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nntp-03.dc1.easynews.com>
<6dda1c90-3270-4add-863f-2dbbf61f76a2@j9g2000prj.googlegroups.com>
In-Reply-To: <6dda1c90-3270-4add-863f-2dbbf61f76a2@j9g2000prj.googlegroups.com>
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Organization: dslextreme.com
X-Complaints-To: abuse@dslextreme.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:4367
rec.radio.amateur.antenna:21123 rec.radio.shortwave:83198
```

On 04/16/2011 04:23 PM, RHF wrote:

> W5MTV --- Hence "Look At {Better} Success" :
> Look at the NRA Political Victory
> Fund (NRA-PVF) : http://www.nrapvf.org/
>
> The Are More and Bigger Challenges To Amateur Radio Then
> Just BPL : Such As Lose of RF Spectrum and Radio Bands.
> http://www.arrl.org/files/file/Hambands_color.pdf
>

.

```
From -4437221872989134718
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X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
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X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news1.google.com!npeer03.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad!
news.dslextreme.com!not-for-mail
Date: Sun, 17 Apr 2011 09:59:42 -0700
From: dave <dave@dave.dave>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.15) Gecko/20110303
Thunderbird/3.1.9
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: We got Joe Walsh!
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
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Xref: g2news2.google.com rec.radio.amateur.homebrew:4665
rec.radio.amateur.antenna:22902 rec.radio.shortwave:89933
```

On 04/16/2011 11:14 PM, bpnjensen wrote:

>
> What hams need are wealthy, high-profile members - like the NRA and
> AARP. They may be small, but fascinating people, even if they are
> stooges, can yield results.

```
From -6311071374460118912
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X-Google-NewGroupId: yes
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gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
news.albasani.net!.POSTED!not-for-mail
From: Speagle <none@none.org>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Why-Not ? : A "Voice of Amateur Radio" PAC Fund !
Followup-To: rec.radio.amateur.homebrew
Date: Sun, 17 Apr 2011 19:49:22 +0000 (UTC)
Organization: albasani.net
Lines: 17
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     <ioao14$bhn$3@dont-email.me> <ysSdne2O6ZHelDTQnZ2dnUVZ_gidnZ2d@bright.net>
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nGpGbxYmpaG4qIAzxaohaNd"; mail-complaints-to="abuse@albasani.net"
Cancel-Lock: sha1:bMHHXm1b0oJhnvvI00DFv/wpkJs=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4369
rec.radio.amateur.antenna:21125 rec.radio.shortwave:83253
```

On Sat, 16 Apr 2011 14:17:35 -0700, RHF wrote:

IF The ARRL want to have a real "Voice" at the Table in Congress and at
the FCC :Then they have to be as 'smart' as the other "Players" in the
Washington, DC Political 'Action' {Power} Game.
Look At Success : Look at the NRA Political Victory Fund (NRA-PVF) :
http://www.nrapvf.org/

Government for sale to the highest bidder?... typical stupid teabagger

Teabagging republicans would sell their mother's SS to the rich while
living under a bridge burning the corpses of the children they fought so
hard not to abort and brag to each other about their perceived superior
intellect on their new 400Mhz cellphones.

```
From -7394242864143655974
X-Google-Thread: fc2a5,6d25d11d4a56666b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!b13g2000prf.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My latest homebrew project....
Date: Sun, 17 Apr 2011 15:02:06 -0700 (PDT)
Organization: http://groups.google.com
Lines: 46
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Injection-Info: b13g2000prf.googlegroups.com; posting-host=50.46.189.195; posting-
account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
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 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4667

On Apr 16, 7:12=A0pm, Kenneth Scharf <wa2...@bellsouth.net> wrote:
> Ever since I got my ham ticket (in 1970) I've always wanted to build a
> complete transceiver. =A0(I DID build a Heathkit SB102). =A0The project
> always seemed a bit too complex though. =A0The problem was I couldn't
> build it a piece at a time, and be able to then put all the bits in a
> box. =A0In order to do that I'd have to design the entire rig ahead of
> time so all the subsystems could have access to the panel for their
> controls.
>
> Fast forward. =A0Today what with micro-controllers and control by wire
> parts (such as varicap diodes, digital pots, dds chips, etc) all the
> subsystems can go anywhere and you only have to have room in the box for
> all of them.
>
> I've started designing a home brew transceiver around a few modules I've
> seen on line and in various magazines. =A0I've got a DDS-60 for my VFO an=
d
> I'm programming an Atmel atmega32 processor to control it. =A0A Bandpass
> filter design by PA3AKE using toroids, an IF amplifier by W7ZOI and
> WA7MLH using fets and bipolar transistors, and a product detector (from
> a direct conversion receiver) by KK7B will form the basis for the
> receiver. =A0I have some 9 mhz if filters purchased at Dayton many years
> ago. =A0The transmitter stages will be based on 'stock' HB circuits.
> Later I might add KK7P's DSP unit with the PicaStar software.
>
> So far I have the DDS working and I've built the KK7B product detector
> and audio filter board. =A0I still have to build his audio amplifier
> circuit (I divided the project into two circuit boards). =A0I started
> working on a cabinet to house the completed rig in. =A0I had a nice
> surplus cabinet purchased in NYC back in the 1970's in my junk box just
> waiting for a project. =A0Over the past two weeks I've been cutting
> openings in the front panel for the controls, LCD, and keypad. =A0I still
> have to repaint the panel and the cabinet (40 years of storage hasn't
> helped the finish!).

Homebrew is still alive!  It's interesting to ponder how you're
adapting to modules that are available, and apparently avoiding having
to directly deal with nasties like ICs with thermal pads on the back
and ball grid arrays -- and comparing that with the parts that were
```

available back when you got started in ham radio. It's also
interesting how you are picking "modules" out of the published works
of other hams, to get to a design you can call your own while giving
credit to those original authors too. Thanks for sharing, Kenneth!

Cheers,
Tom

From -7649408153311729499
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2.glorb.com!news-out.octanews.net!indigo.octanews.net!news-2.mpls.iphouse.net.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Why-Not ? : A "Voice of Amateur Radio" PAC Fund !
From: Bert Hyman <bert@iphouse.com>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
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<io6qjp$efs$4@dont-email.me> <1KadnQfnyKwD7zrQnZ2dnUVZ_jmdnZ2d@bright.net>
<4da7a394$0$6702$8046368a@newsreader.iphouse.net> <io9djf$7dc$2@dont-email.me>
<ZMWdnR3xrKgSVDXQnZ2dnUVZ_h-dnZ2d@bright.net> <ioao14$bhn$3@dont-email.me>
<ysSdne2O6ZHelDTQnZ2dnUVZ_gidnZ2d@bright.net> <bb4721b6-1a69-491e-a769-7f3792e718f6@22g2000prx.googlegroups.com> <iofg82$vr6$2@news.albasani.net>
Organization: Not that you'd notice
Message-ID: <Xns9ECAB75713B72VeebleFetzer@216.250.188.141>
User-Agent: Xnews/2006.08.24
Date: 17 Apr 2011 23:01:23 GMT
Lines: 13
NNTP-Posting-Date: 17 Apr 2011 18:01:23 CDT
NNTP-Posting-Host: fbd9e8fd.newsreader.iphouse.net
X-Trace: DXC=?_ANm\7:o[n;jnT`SX0LJfVn\Tj8`^BbkeHS>e[L>83`c4<?e5`J6?jc230oU7d71aX7@2h;nGb4mm>48ObC2Ldi
X-Complaints-To: abuse@iphouse.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:4668

In news:iofg82$vr6$2@news.albasani.net Speagle <none@none.org> wrote:

> Government for sale to the highest bidder?...

Government's been for sale to the highest bidder for decades, if not
longer.

> typical stupid teabagger

Pay attention.

--
Bert Hyman   W0RSB   St. Paul, MN bert@iphouse.com

```
From 8667470185940569885
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!
news2.glorb.com!news.glorb.com!news-out.octanews.net!indigo.octanews.net!
news-2.mpls.iphouse.net.POSTED!not-for-mail
Date: Sun, 17 Apr 2011 19:34:07 -0500
From: tom <news4792@taring.org>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Why-Not ? : A "Voice of Amateur Radio" PAC Fund !
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com>    <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me>     <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
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     <io6qjp$efs$4@dont-email.me> <1KadnQfnyKwD7zrQnZ2dnUVZ_jmdnZ2d@bright.net>
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email.me> <ysSdne2O6ZHelDTQnZ2dnUVZ_gidnZ2d@bright.net> <bb4721b6-1a69-491e-
a769-7f3792e718f6@22g2000prx.googlegroups.com> <iofg82$vr6$2@news.albasani.net>
In-Reply-To: <iofg82$vr6$2@news.albasani.net>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 27
Message-ID: <4dab86fe$0$87580$8046368a@newsreader.iphouse.net>
Organization: ipHouse - Welcome Home!
NNTP-Posting-Date: 17 Apr 2011 19:34:07 CDT
NNTP-Posting-Host: 2fd03a02.newsreader.iphouse.net
X-Trace: DXC=35nL;XaZ1XhGY[G3l]@PWhVn\Tj8`^BbkeHS>e[L>83`c4<?e5`J6?
jWX@ab@3=d:`Zn2>YI<c?BnU]B<527KGMl
X-Complaints-To: abuse@iphouse.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:4669

On 4/17/2011 2:49 PM, Speagle wrote:
> On Sat, 16 Apr 2011 14:17:35 -0700, RHF wrote:
>
> *IF* The ARRL want to have a real "Voice" at the Table in Congress and at
> the FCC :Then they have to be as 'smart' as the other "Players" in the
> Washington, DC Political 'Action' {Power} Game.
> Look At Success : Look at the NRA Political Victory Fund (NRA-PVF) :
> http://www.nrapvf.org/
>
> Government for sale to the highest bidder?...  typical stupid teabagger
>
> Teabagging republicans would sell their mother's SS to the rich while
> living under a bridge burning the corpses of the children they fought so
```

> hard not to abort and brag to each other about their perceived superior
> intellect on their new 400Mhz cellphones.
>
>
>

Moron. To mix metaphors he drank the KoolAid hook line and sinker.

This is the type that both parties love, not someone who can't think,
but would never start.

PLONK!

From -4270680384699887854
X-Google-Thread: fc2a5,293a151f4e1a93ea,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
news.dfncis.de!not-for-mail
From: Markus Wolfgart <markus.wolfgart@dlr.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: HP8562B - YTO- PCB - help wanted!
Date: Mon, 18 Apr 2011 12:58:45 +0200
Lines: 21
Message-ID: <912jqrF5buU1@mid.dfncis.de>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-15
Content-Transfer-Encoding: 7bit
X-Trace: news.dfncis.de gQ6BBedoK6i0l/U5XmAZtgt+EjZhEcPgAyEt9LQtwbzXbPG0c6FmOQOchw
Cancel-Lock: sha1:L7wJqlmDPjxaBWMOyS9udH6gfmQ=
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; de; rv:1.9.2.14) Gecko/20110221
SUSE/3.1.8 Thunderbird/3.1.8
Xref: g2news2.google.com rec.radio.amateur.homebrew:4670

Dear OM's

I'm looking for some help concerning a defective driver pcb for a
yig oscillator inside the mentioned device above.

see link: (http://www.mikrocontroller.net/topic/215840#2149959)

I'm looking for the proper value of the destroyed resistor (< 50 ohm) in
the lower corner as well as for the value of the capacitor.

Have any of you a link to the service schematic of the mentioned driver,
or could send me a copy of it.

Any help would be appreciated.

vy73

Markus
alias
DL8MBY

From 3210954440428875800
X-Google-Thread: fc2a5,b472ef92d0d11770,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v33g2000prn.googlegroups.com!not-for-mail
From: tejaswini <teju9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ADULT SEX PHOTOS
Date: Mon, 18 Apr 2011 04:41:18 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <91e361b6-e0e4-4eb1-918b-7e6d6900f9e4@v33g2000prn.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 18 Apr 2011 11:41:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v33g2000prn.googlegroups.com; posting-host=117.199.249.197;
posting-account=6xaZwQoAAACqKFwd8FfwWgPIkcC-Icg-
User-Agent: G2/1.0
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 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4671

hot lipkiss
http://hotactressstoyou.blogspot.com/2011/04/lipkiss-2.html
lipkiss in without dress
http://hotactressstoyou.blogspot.com/2011/04/lipkiss.html
seepika padukone sexy back look
http://hotactressstoyou.blogspot.com/2011/04/deepika-padukone.html
sexy katrina kaif
http://hotactressstoyou.blogspot.com/2011/04/katrina-kaif.html
beauty keerthi chawla
http://hotactressstoyou.blogspot.com/2011/04/keerthi-chawla.html
saloni sexy photos
http://hotactressstoyou.blogspot.com/2011/04/saloni.html
deeksha seth in a hot saree
http://hotactressstoyou.blogspot.com/2011/04/deeksha-seth.html
asin hot wallpapers
http://hotactressstoyou.blogspot.com/2011/04/asin.html
ramba in a red dress

http://hotactressstoyou.blogspot.com/2011/04/ramba.html
sexy ilieana is in scert
http://hotactressstoyou.blogspot.com/2011/04/ileana.html

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From 8248535294208961347
X-Google-Thread: fc2a5,6d25d11d4a56666b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-12.dc1.easynews.com.POSTED!not-for-mail
From: John Ferrell <jferrell13@triad.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My latest homebrew project....
Message-ID: <352pq691evdfoetqq4aehf7jigql8ds3i3@4ax.com>
References: <iodibe$t5j$1@dont-email.me>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 48
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Mon, 18 Apr 2011 14:59:32 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:4375
```

On Sat, 16 Apr 2011 22:12:56 -0400, Kenneth Scharf
<wa2mze@bellsouth.net> wrote:

>Ever since I got my ham ticket (in 1970) I've always wanted to build a complete transceiver. (I DID build a Heathkit SB102). The project always seemed a bit too complex though. The problem was I couldn't build it a piece at a time, and be able to then put all the bits in a box. In order to do that I'd have to design the entire rig ahead of time so all the subsystems could have access to the panel for their controls.
>
>Fast forward. Today what with micro-controllers and control by wire parts (such as varicap diodes, digital pots, dds chips, etc) all the subsystems can go anywhere and you only have to have room in the box for all of them.
>
>I've started designing a home brew transceiver around a few modules I've seen on line and in various magazines. I've got a DDS-60 for my VFO and I'm programming an Atmel atmega32 processor to control it. A Bandpass filter design by PA3AKE using toroids, an IF amplifier by W7ZOI and WA7MLH using fets and bipolar transistors, and a product detector (from

>a direct conversion receiver) by KK7B will form the basis for the
>receiver. I have some 9 mhz if filters purchased at Dayton many years
>ago. The transmitter stages will be based on 'stock' HB circuits.
>Later I might add KK7P's DSP unit with the PicaStar software.
>
>So far I have the DDS working and I've built the KK7B product detector
>and audio filter board. I still have to build his audio amplifier
>circuit (I divided the project into two circuit boards). I started
>working on a cabinet to house the completed rig in. I had a nice
>surplus cabinet purchased in NYC back in the 1970's in my junk box just
>waiting for a project. Over the past two weeks I've been cutting
>openings in the front panel for the controls, LCD, and keypad. I still
>have to repaint the panel and the cabinet (40 years of storage hasn't
>helped the finish!).

Please keep us informed!
Web sites and links to pictures would be nice.
If you don't know how and are not too interested in learning I can
help you out with that part. Free of course.

There are a lot of folks who are serious about building things today.
I hope to do the same thing as you, but my plan is to go the soft rock
scheme.

Getting it done is always a problem. There are lots of distractions
that divert my attention!
John Ferrell W8CCW

From 2105724218725500408
X-Google-Thread: fc2a5,293a151f4e1a93ea
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!f15g2000pro.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP8562B - YTO- PCB - help wanted!
Date: Mon, 18 Apr 2011 12:04:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <4831959e-e770-4540-812b-a5acc85d8e1f@f15g2000pro.googlegroups.com>
References: <912jqrF5buU1@mid.dfncis.de>
NNTP-Posting-Host: 50.46.189.195
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1303153445 30560 127.0.0.1 (18 Apr 2011 19:04:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 18 Apr 2011 19:04:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f15g2000pro.googlegroups.com; posting-host=50.46.189.195; posting-

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account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
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 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4376

On Apr 18, 3:58=A0am, Markus Wolfgart <markus.wolfg...@dlr.de> wrote:
> Dear OM's
>
> I'm looking for some help concerning a defective driver pcb for a
> yig oscillator inside the mentioned device above.
>
> see link: (http://www.mikrocontroller.net/topic/215840#2149959)
>
> I'm looking for the proper value of the destroyed resistor (< 50 ohm) in
> the lower corner as well as for the value of the capacitor.
>
> Have any of you a link to the service schematic of the mentioned driver,
> or could send me a copy of it.
>
> Any help would be appreciated.
>
> vy73
>
> Markus
> alias
> DL8MBY

So, is that a board that is actually part of the YTO assembly, A11?
There is a remote possibility I can find a schematic...if nobody else
has one handy.  I do worry, though, WHY it burned up:  is there a
shorted coil in the YTO?  I assume you have the 09562-90062.pdf
service manual that you can get from the Agilent website.
Unfortunately, it's pretty thin on component-level schematics.  Even
in instrument manuals with more detailed schematics, it's common to
treat the YTO as a "black box."

Cheers,
Tom



From -2537963706976727624
X-Google-Thread: fc2a5,293a151f4e1a93ea
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!18g2000prd.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP8562B - YTO- PCB - help wanted!
Date: Mon, 18 Apr 2011 12:31:44 -0700 (PDT)
Organization: http://groups.google.com
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Lines: 43
Message-ID: <9b8bb605-ab1d-4cd8-a2a5-9429e57dcd47@18g2000prd.googlegroups.com>
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NNTP-Posting-Host: 50.46.189.195
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1303155104 3376 127.0.0.1 (18 Apr 2011 19:31:44 GMT)
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NNTP-Posting-Date: Mon, 18 Apr 2011 19:31:44 +0000 (UTC)
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Injection-Info: 18g2000prd.googlegroups.com; posting-host=50.46.189.195; posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4377

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>
> vy73
>
> Markus
> alias
> DL8MBY

A bit more on this: tantalum caps have a bad habit of shorting out.
I can see from your posted pictures of the board that the burned axial
lead component is in series from pin 8 of the connector, which from
the partial schematic someone else posted to the thread is the +15V
supply. I can't quite trace out where the other end of the burned
component goes, but if it goes to that burned tantalum, then it's
reasonable to suspect that the capacitor shorted and drew enough
current through the axial lead component to burn up both itself and
the axial lead part, and that may be the extent of the problem. If
the axial lead part really was a resistor, it was probably a pretty
low value, as you suggest, and the value is probably not at all
critical. Is there any chance it was instead a low-value inductor?
You might trace out where that +15V power is used. It may help to

know that the 1826-1149 is an OP-07 op amp. If the tantalum is a
power supply filter cap (pretty likely), you'll of course want to use
one rated at least 25V on a 15V bus; 35V would be even better. These
days you could likely just use a ceramic to replace it...we have a lot
less trouble with ceramic shorting than with tantalums.

Cheers,
Tom

From 7476095423494103363
X-Google-Thread: fc2a5,6d25d11d4a56666b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad!post02.iad!not-for-mail
From: Kickin' Ass and Takin' Names <PopUlist349@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My latest homebrew project....
Date: Mon, 18 Apr 2011 16:14:59 -0400
Organization: Newshosting.com - Highest quality at a great price! www.newshosting.com
X-Complaints-To: abuse(at)newshosting.com
Message-ID: <lr6pq6tu677qmabn68akji7fg28tejot9a@4ax.com>
References: <iodibe$t5j$1@dont-email.me>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 57
Xref: g2news2.google.com rec.radio.amateur.homebrew:4675

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<wa2mze@bellsouth.net> wrote:

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>
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>openings in the front panel for the controls, LCD, and keypad. I still
>have to repaint the panel and the cabinet (40 years of storage hasn't
>helped the finish!).

Do you have a website? If not, it's not at all expensive to register your own domain -- something like wa2mze.org -- find someone to host the site -- GoDaddy comes to mind -- and in a few minutes your site is up.

Then, you can post details, photos, and the like and ask for ideas and assistance.

Just a thought.

The material posted here may or may not be factual.

The author is following the example set by
Senator Jon Kyl (R, AZ) who was caught citing
false statistics, after which his staff stated
that his comments were "not intended to be factual."

KATN

From 8602550393438450430
X-Google-Thread: fc2a5,293a151f4e1a93ea
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!feeder.news-service.com!cyclone03.ams2.highwinds-media.com!news.highwinds-media.com!npeersf01.ams.highwinds-media.com!newsfe11.ams2.POSTED!00000000!not-for-mail
From: "Andrew Holme" <ah@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
References: <912jqrF5buU1@mid.dfncis.de>
Subject: Re: HP8562B - YTO- PCB - help wanted!
Lines: 38

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X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6090
Message-ID: <rc4rp.6186$ZU7.2967@newsfe11.ams2>
NNTP-Posting-Host: 80.177.105.226
X-Complaints-To: abuse@demon.net
X-Trace: newsfe11.ams2 1303170967 80.177.105.226 (Mon, 18 Apr 2011 23:56:07 UTC)
NNTP-Posting-Date: Mon, 18 Apr 2011 23:56:07 UTC
Date: Tue, 19 Apr 2011 00:56:11 +0100
Xref: g2news1.google.com rec.radio.amateur.homebrew:4379
```

"Markus Wolfgart" <markus.wolfgart@dlr.de> wrote in message
news:912jqrF5buU1@mid.dfncis.de...

> Dear OM's
>
> I'm looking for some help concerning a defective driver pcb for a
> yig oscillator inside the mentioned device above.
>
> see link: (http://www.mikrocontroller.net/topic/215840#2149959)
>
> I'm looking for the proper value of the destroyed resistor (< 50 ohm) in
> the lower corner as well as for the value of the capacitor.
>
> Have any of you a link to the service schematic of the mentioned driver,
> or could send me a copy of it.
>
> Any help would be appreciated.
>
>
> vy73
>
> Markus
> alias
> DL8MBY
>

I agree with K7ITM that tants have a habit of burning out like the one in your photo. And I agree it looks like the tant and series R or L are just filtering a power supply coming onto the board.

From the photos, it looks like the square pad of the blown tant is connected to a ground plane inside the board. After removing the cap, you could buzz it out to check. But I think I see a + adjacent to the square pad on the top copper in your 01k photo. I wonder if there is an error in the PCB layout or the schematic. You might want to check if pin 8 is really +15V or -15V by measuring the voltage on the unplugged cable.

```
From -399547184298947841
X-Google-Thread: fc2a5,6d25d11d4a56666b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!eternal-september.org!
feeder.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My latest homebrew project....
Date: Mon, 18 Apr 2011 20:41:47 -0400
Organization: A noiseless patient Spider
Lines: 72
Message-ID: <ioilod$a5p$1@dont-email.me>
References: <iodibe$t5j$1@dont-email.me>
<93eebbb0-6464-4cde-8109-5bb1b54e036c@b13g2000prf.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Tue, 19 Apr 2011 00:41:49 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="BymgdnD5gGDWMqwSYHyd4A";
     logging-data="10425"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+DZNAw3pb7EbCYUSFNvXSasvYk1Kk/HhE="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.14) Gecko/20110223
Thunderbird/3.1.8
In-Reply-To: <93eebbb0-6464-4cde-8109-5bb1b54e036c@b13g2000prf.googlegroups.com>
Cancel-Lock: sha1:D4KkAic587mUyDetR8BabJKuRTs=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4380
```

On 04/17/2011 06:02 PM, K7ITM wrote:
> On Apr 16, 7:12 pm, Kenneth Scharf<wa2...@bellsouth.net> wrote:
>> Ever since I got my ham ticket (in 1970) I've always wanted to build a
>> complete transceiver. (I DID build a Heathkit SB102). The project
>> always seemed a bit too complex though. The problem was I couldn't
>> build it a piece at a time, and be able to then put all the bits in a
>> box. In order to do that I'd have to design the entire rig ahead of
>> time so all the subsystems could have access to the panel for their
>> controls.
>>
>> Fast forward. Today what with micro-controllers and control by wire
>> parts (such as varicap diodes, digital pots, dds chips, etc) all the
>> subsystems can go anywhere and you only have to have room in the box for
>> all of them.
>>
>> I've started designing a home brew transceiver around a few modules I've
>> seen on line and in various magazines. I've got a DDS-60 for my VFO and
>> I'm programming an Atmel atmega32 processor to control it. A Bandpass
>> filter design by PA3AKE using toroids, an IF amplifier by W7ZOI and
>> WA7MLH using fets and bipolar transistors, and a product detector (from
>> a direct conversion receiver) by KK7B will form the basis for the
>> receiver. I have some 9 mhz if filters purchased at Dayton many years
>> ago. The transmitter stages will be based on 'stock' HB circuits.
>> Later I might add KK7P's DSP unit with the PicaStar software.

>>
>> So far I have the DDS working and I've built the KK7B product detector
>> and audio filter board. I still have to build his audio amplifier
>> circuit (I divided the project into two circuit boards). I started
>> working on a cabinet to house the completed rig in. I had a nice
>> surplus cabinet purchased in NYC back in the 1970's in my junk box just
>> waiting for a project. Over the past two weeks I've been cutting
>> openings in the front panel for the controls, LCD, and keypad. I still
>> have to repaint the panel and the cabinet (40 years of storage hasn't
>> helped the finish!).
>
> Homebrew is still alive! It's interesting to ponder how you're
> adapting to modules that are available, and apparently avoiding having
> to directly deal with nasties like ICs with thermal pads on the back
> and ball grid arrays -- and comparing that with the parts that were
> available back when you got started in ham radio. It's also
> interesting how you are picking "modules" out of the published works
> of other hams, to get to a design you can call your own while giving
> credit to those original authors too. Thanks for sharing, Kenneth!
>
> Cheers,
> Tom

Ham radio is the original "Open Source Hardware"
(http://freedomdefined.org/OSHW). Hams have been sharing ideas for
years. I certainly am grateful to all those that have shared their
design work on the web or in magazines. The same thing has been going
on in software (www.fsf.org, www.gnu.org) as well.

One thing that does 'urk' me are magazine articles where the author has
a link to download a "hex" file for a project that uses computers but
does NOT make the source available. That's like not printing the
schematic IMHO!

There are many surface mount parts that are available in 'leaded'
packages which can be soldered by hand. Even those with .5mm spacing(!)
can be hand soldered to a well laid out PC board with a fine tip
soldering iron. You will need thin wire solder and some solder wick to
clean up shorts between leads, but it can be done. I require some
magnification to see what I'm doing and I have a binocular microscope of
10x power to inspect afterwards.

Learning how to lay out PC boards using cad software is a help. Eagle
Cad is a free download good for double sided boards up to about 4x3
inches and schematics of one sheet.

I have a website at hhttp://scharkalvin.weebly.com. I've started posting
some pictures of what I'm doing and hope to add more info as time permits.

From 7914171653112857292
X-Google-Thread: fc2a5,6d25d11d4a56666b
X-Google-NewGroupId: yes

```
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 18 Apr 2011 19:55:54 -0500
Date: Tue, 19 Apr 2011 00:55:54 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My latest homebrew project....
References: <iodibe$t5j$1@dont-email.me>
<lr6pq6tu677qmabn68akji7fg28tejot9a@4ax.com>
In-Reply-To: <lr6pq6tu677qmabn68akji7fg28tejot9a@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <cZqdnTCHNfIHQDHQnZ2dnUVZ_rydnZ2d@bright.net>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
Y50b1X4SK4XcE+VahqNu+Tvow4gvQjEqZ4Ju5Yfq2iZv7WuKWtY6YpzcsOsDPXcad2tJGJnu6EBKmkO!
0y0xB6iRijhfXX3aqW00ICnX/zhF8K3l5p8bNSGxVRasqjHnwhV2GmBXfQxuawnxm3mvlP+GdQdO!
dOw7Bb1ueQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1739
Xref: g2news1.google.com rec.radio.amateur.homebrew:4381
```

On 4-18-2011 20:14, Kickin' Ass and Takin' Names wrote:

>
>
> Do you have a website? If not, it's not at all expensive to register
> your own domain -- something like wa2mze.org -- find someone to host
> the site -- GoDaddy comes to mind -- and in a few minutes your site is
> up.
>
> Then, you can post details, photos, and the like and ask for ideas and
> assistance.
>
> Just a thought.

Or go with a freebie such as www.tripod.com. Most of us can deal with
the "advertising and/or popups. If it's free, it's for me.

N0EDV

```
From 2327029092341979457
X-Google-Thread: fc2a5,f21dd8ceffdedfa0,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!r19g2000prm.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT VIDEOS FOR YOUTH AND WORLD SEXIEST GIRLS HOT PHOTOS
Date: Mon, 18 Apr 2011 18:04:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <cbf3cc9b-ebb3-4d6c-a0c7-036d7464b5d4@r19g2000prm.googlegroups.com>
NNTP-Posting-Host: 117.199.240.210
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1303175054 31847 127.0.0.1 (19 Apr 2011 01:04:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 19 Apr 2011 01:04:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r19g2000prm.googlegroups.com; posting-host=117.199.240.210;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4382
```

A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.com/

ALL HOT PHOTOS SUPER SeXY PHOTOS

http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

ALL JOBS SITES FREE SEE

http://jobstwo.blogspot.com/

HOT VIDEOS

http://hotvideotoou.blogspot.com/2011/01/kiss-videos.html

hot lip kiss

```
http://hotvidos.blogspot.com/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.com/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.com/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.com/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.com/2010/07/tamil-hot-videos.html


From 6325930682268022575
X-Google-Thread: fc2a5,293a151f4e1a93ea
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!f31g2000pri.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP8562B - YTO- PCB - help wanted!
Date: Mon, 18 Apr 2011 19:15:23 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
Message-ID: <e494f476-67c3-494c-9261-90fe25817bf0@f31g2000pri.googlegroups.com>
References: <912jqrF5buU1@mid.dfncis.de> <rc4rp.6186$ZU7.2967@newsfe11.ams2>
NNTP-Posting-Host: 50.46.189.195
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1303179323 23953 127.0.0.1 (19 Apr 2011 02:15:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 19 Apr 2011 02:15:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f31g2000pri.googlegroups.com; posting-host=50.46.189.195; posting-
account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4383

On Apr 18, 4:56=A0pm, "Andrew Holme" <a...@nospam.com> wrote:
> "Markus Wolfgart" <markus.wolfg...@dlr.de> wrote in message
>
> news:912jqrF5buU1@mid.dfncis.de...
>
>
>
> > Dear OM's
>
> > I'm looking for some help concerning a defective driver pcb for a
> > yig oscillator inside the mentioned device above.
>
```

```
> > see link: (http://www.mikrocontroller.net/topic/215840#2149959)
>
> > I'm looking for the proper value of the destroyed resistor (< 50 ohm) i=
n
> > the lower corner as well as for the value of the capacitor.
>
> > Have any of you a link to the service schematic of the mentioned driver=
,
> > or could send me a copy of it.
>
> > Any help would be appreciated.
>
> > vy73
>
> > Markus
> > alias
> > DL8MBY
>
> I agree with K7ITM that tants have a habit of burning out like the one in
> your photo. =A0And I agree it looks like the tant and series R or L are j=
ust
> filtering a power supply coming onto the board.
>
> From the photos, it looks like the square pad of the blown tant is connec=
ted
> to a ground plane inside the board. =A0After removing the cap, you could =
buzz
> it out to check. =A0But I think I see a + adjacent to the square pad on t=
he
> top copper in your 01k photo. =A0I wonder if there is an error in the PCB
> layout or the schematic. =A0You might want to check if pin 8 is really +1=
5V
> or -15V by measuring the voltage on the unplugged cable.

Yeah, I kind of wondered about the connections to the cap too.  Since
we don't have the board, it's hard to tell.  It does look like a 4-
layer board, and in that case the interior layers may be ground and
power (with the power possibly split between +15 and -15, or
such...).  I fully agree with Andrew:  ohm/buzz out the connections to
reverse-engineer as much of the schematic as you need.  It's a pretty
simple board, and shouldn't be difficult.  If there's a code on the
two transistors, I can probably tell you what they are (assuming they
aren't labeled 2N3904 or whatever).  Typical would be 4-nnn (for an
NPN) or 3-nnn (for a PNP) -- abbreviations for the full HP part
number, which would be 1854-xxxx or 1853-xxxx.  The full numbers were
a bit hard to put on small parts back then.

Cheers,
Tom


From -5258068871862530138
X-Google-Thread: fc2a5,293a151f4e1a93ea
```

X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!newsfeed.kamp.net!newsfeed.kamp.net!fu-berlin.de!uni-berlin.de!news.dfncis.de!not-for-mail
From: Markus Wolfgart <markus.wolfgart@dlr.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP8562B - YTO- PCB - help wanted!
Date: Tue, 19 Apr 2011 08:56:36 +0200
Lines: 63
Message-ID: <914q0pFmmnU1@mid.dfncis.de>
References: <912jqrF5buU1@mid.dfncis.de>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-15
Content-Transfer-Encoding: 7bit
X-Trace: news.dfncis.de qAvDXXMiZVI3VOE6n9n0cgUD2nDaqBv7YzdM6/41SunDeqKAdKFcZbRuC5
Cancel-Lock: sha1:seus9EUIxnDVuoZQkCrmlCKmcUI=
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; de; rv:1.9.2.14) Gecko/20110221 SUSE/3.1.8 Thunderbird/3.1.8
In-Reply-To: <912jqrF5buU1@mid.dfncis.de>
Xref: g2news1.google.com rec.radio.amateur.homebrew:4384

Dear om Andrew dear om Tom,

many thanks for your prompt replay.

Today before breakfast I start to fiddle out the connections from the pcb to the parts on it.
I'm not ready yet but probably this evening.

But its true as you noticed that all tree caps are routed to the inner layer (only three of them) with the pos. pol.

The neighbour of the burned resistor seems to be a coil (vio/red/green/silver/space/brown) colour marking (72uH? I have to check the meaning of silver labelling factor 0,1?).

The burned resistor is not directly connected to the destroyed cap but to one of the others 10u25V or 39u10V.

As you mentioned the OPA labelled as PMI9017 - is this part comparable to a OP07 (or OP27) ?
I have unfortunately no luck to find any doc in the web but some hints that PIM parts were manufactured for AD in the 80 years and later on AD take over this company.

I hope to fine more details this evening.

Many thanks for your help.
I will keep you informed on my progress.

Would be great to reanimate this HP8562B for ham purpose.

vy73 + tnx

Markus
DL8MBY

Am 18.04.2011 12:58, schrieb Markus Wolfgart:
> Dear OM's
>
> I'm looking for some help concerning a defective driver pcb for a
> yig oscillator inside the mentioned device above.
>
> see link: (http://www.mikrocontroller.net/topic/215840#2149959)
>
> I'm looking for the proper value of the destroyed resistor (< 50 ohm) in
> the lower corner as well as for the value of the capacitor.
>
> Have any of you a link to the service schematic of the mentioned driver,
> or could send me a copy of it.
>
> Any help would be appreciated.
>
>
> vy73
>
> Markus
> alias
> DL8MBY

From 3924169709958854328
X-Google-Thread: fc2a5,f2182d2dd2d5fd66,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!u15g2000vby.googlegroups.com!not-for-mail
From: Sevana Oy <sevanafi@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Audio podcast optimization: decreasing bit rate preserving high quality
Date: Tue, 19 Apr 2011 09:30:59 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <61c62fcf-0082-4e8b-8da0-a744e2ad3821@u15g2000vby.googlegroups.com>
NNTP-Posting-Host: 46.149.44.148
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1303230660 2791 127.0.0.1 (19 Apr 2011 16:31:00 GMT)

X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 19 Apr 2011 16:31:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u15g2000vby.googlegroups.com; posting-host=46.149.44.148; posting-account=z_GeMQoAAADnSI61siiNdmcV8ks6_yh3
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.0; ru; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16 (.NET CLR 3.5.30729; .NET4.0C),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4682

Hi,

Just would like to share an article on audio encoding optimization for podcasting. No need to think what bit rate to choose the batch file will automatically encode your podcast with the best bit rate to preserve the best quality and smallest file size. The approach was tested on MP3, Nero AAC and OGG.

This paper will give you understanding on how one can achieve better compression ratio by bit rate optimization. The key point is that our approach describes a fully automated manner of choosing the bit rate that will preserve the audio quality you define. Read this paper through and find out how to save on size when encoding your podcasts, save on bandwidth when transmitting your audio streams in the network, make more audio tracks fit your memory stick when grabbed from a CD, or store more audio books on your mobile device. This paper will tell you how to save up to 50% on audio file size and up to 50% on the bit rate you encode your audio with still having a descent sound quality.

Read full text of how to encode audio with lowest bit rate at highest quality in this blog post:
http://blog.sevana.fi/optimize-bitrate-and-size-preserving-high-audio-quality-in-tracks-podcasts-tunes-with-aqua-wideband/

From -2746731104240083216
X-Google-Thread: fc2a5,293a151f4e1a93ea
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!j13g2000pro.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP8562B - YTO- PCB - help wanted!
Date: Tue, 19 Apr 2011 15:25:24 -0700 (PDT)
Organization: http://groups.google.com
Lines: 75
Message-ID: <81569f2c-12ae-45f0-a7e9-7857502b53cd@j13g2000pro.googlegroups.com>
References: <912jqrF5buU1@mid.dfncis.de> <914q0pFmmnU1@mid.dfncis.de>
NNTP-Posting-Host: 50.46.189.195
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1

```
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1303251924 32729 127.0.0.1 (19 Apr 2011 22:25:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 19 Apr 2011 22:25:24 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j13g2000pro.googlegroups.com; posting-host=50.46.189.195; posting-
account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4386

On Apr 18, 11:56=A0pm, Markus Wolfgart <markus.wolfg...@dlr.de> wrote:
> Dear om Andrew dear om Tom,
>
> many thanks for your prompt replay.
>
> Today before breakfast I start to fiddle out the connections from the
> pcb to the parts on it.
> I'm not ready yet but probably this evening.
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> (vio/red/green/silver/space/brown) colour marking (72uH? I have to check
> the meaning of silver labelling factor 0,1?).
>
> The burned resistor is not directly connected to the destroyed cap but
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>
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> I will keep you informed on my progress.
>
> Would be great to reanimate this HP8562B for ham purpose.
>
> vy73 + tnx
>
> Markus
> DL8MBY
>
> Am 18.04.2011 12:58, schrieb Markus Wolfgart:
>
> > Dear OM's
>
```

> > I'm looking for some help concerning a defective driver pcb for a
> > yig oscillator inside the mentioned device above.
>
> > see link: (http://www.mikrocontroller.net/topic/215840#2149959)
>
> > I'm looking for the proper value of the destroyed resistor (< 50 ohm) i=
n
> > the lower corner as well as for the value of the capacitor.
>
> > Have any of you a link to the service schematic of the mentioned driver=
,
> > or could send me a copy of it.
>
> > Any help would be appreciated.
>
> > vy73
>
> > Markus
> > alias
> > DL8MBY

Yes, the 1826-1149 is an OP-07, and specifically an OP-07EZ. It
appears to still be available from Analog Devices, at least in a
plastic version, and you can get a full data sheet on their web site.
The web site also suggests that OP-27 is similar, the data sheet for
the OP-97 may give you some ideas too, and the OP-07 web page at
Analog Devices suggests the AD8677 as a replacement. In short, it
should not be difficult to find both data for the OP-07 and a suitable
replacement should that be necessary. And yes, Analog Devices
acquired PMI many years ago, but carries on the "OP" line of parts
today.

Cheers,
Tom

From -4677808284168064686
X-Google-Thread: fc2a5,34f67cdfc5b1c8cb,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r35g2000prj.googlegroups.com!not-for-mail
From: BASS <dalermehandi9247@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: WORLD BEST HOT PICS
Date: Tue, 19 Apr 2011 15:31:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
Message-ID: <c017c282-dfa0-46d0-8aa2-4042395c84d8@r35g2000prj.googlegroups.com>
NNTP-Posting-Host: 117.199.241.156
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1

```
X-Trace: posting.google.com 1303252300 22164 127.0.0.1 (19 Apr 2011 22:31:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 19 Apr 2011 22:31:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r35g2000prj.googlegroups.com; posting-host=117.199.241.156;
posting-account=ChMvegkAAADX5lcnTEWruk43MP3_cJY6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4684

 hot lipkiss
http://hotvideosee.blogspot.com/2011/04/lipkiss.html
     lipkiss in without dress
http://hotvideosee.blogspot.com/2011/04/lipkiss-2.html
       sexy katrina kaif
http://hotvideosee.blogspot.com/2011/04/katrina-kaif.html
    deepika padukone sexy back look
http://hotvideosee.blogspot.com/2011/04/deepika-padukone.html
     asin hot wallpapers
http://hotvideosee.blogspot.com/2011/04/asin.html
   namitha with a sexy look
http://hotvideosee.blogspot.com/2011/04/namitha.html
   sneha hot wallpapers
http://hotvideosee.blogspot.com/2011/04/sneha.html
 parugu sheela in a half saree
http://hotvideosee.blogspot.com/2011/04/sheela.html
       trisha hot navel show in a half saree
http://hotvideosee.blogspot.com/2011/04/trisha.html


From -5016995097597156282
X-Google-Thread: fc2a5,293a151f4e1a93ea
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
v33g2000prn.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP8562B - YTO- PCB - help wanted!
Date: Tue, 19 Apr 2011 15:37:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 82
Message-ID: <bdffb8f2-273c-4a2e-804e-ee0a9e9257e5@v33g2000prn.googlegroups.com>
References: <912jqrF5buU1@mid.dfncis.de> <914q0pFmmnU1@mid.dfncis.de>
NNTP-Posting-Host: 50.46.189.195
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1303252624 25401 127.0.0.1 (19 Apr 2011 22:37:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 19 Apr 2011 22:37:04 +0000 (UTC)
```

Complaints-To: groups-abuse@google.com
Injection-Info: v33g2000prn.googlegroups.com; posting-host=50.46.189.195; posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4388

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>
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> I will keep you informed on my progress.
>
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>
> > see link: (http://www.mikrocontroller.net/topic/215840#2149959)

>
> > I'm looking for the proper value of the destroyed resistor (< 50 ohm) i=
n
> > the lower corner as well as for the value of the capacitor.
>
> > Have any of you a link to the service schematic of the mentioned driver=
,
> > or could send me a copy of it.
>
> > Any help would be appreciated.
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> > vy73
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> > Markus
> > alias
> > DL8MBY

Addendum: the label on the op amp, PMI9017, is undoubtedly the date
code: 17th week of 1990. The 1826-1149 is an HP part number: all
common HP parts have a "4x4" HP number; ones special to a single
instrument or a few instruments may have a "5x5" number. Note that
the printed circuit board has a 4x4 number: 5062-0752. That suggests
to me that the YTO is used in several other instruments, though it
could also be the case that when it was made, the team _thought_ it
would be used in other places. I'd expect some of the boards in your
instrument will have 5x5 numbers beginning with 08562, showing that
they are used in the 8562. Many (most) parts with 4x4 part numbers
have one or more equivalent industry-standard part numbers; for
example a 316 ohm resistor could be purchased from any of several
different suppliers, all qualified to meet the requirements of the
particular 4x4 part number. But in some rare cases, a 4x4 number
refers to a part selected for especially good performance in some
area, and you couldn't be guaranteed to maintain performance of the
instrument with a similar non-selected "generic" part.

Cheers,
Tom

From 9211114777492886993
X-Google-Thread: fc2a5,f2153a155c76414f,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r19g2000prm.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT SEXY MASALA VIDEOS AND LOVELY PHOTOS
Date: Tue, 19 Apr 2011 18:03:47 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <9f2eb062-673e-436d-97ed-4b6db151d1bb@r19g2000prm.googlegroups.com>

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NNTP-Posting-Host: 117.199.243.35
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1303261428 3351 127.0.0.1 (20 Apr 2011 01:03:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 20 Apr 2011 01:03:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r19g2000prm.googlegroups.com; posting-host=117.199.243.35;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4686


      A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.com/



             ALL HOT PHOTOS SUPER SeXY PHOTOS

http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

               ALL  JOBS   SITES FREE SEE

http://jobstwo.blogspot.com/




HOT VIDEOS

http://hotvideotoou.blogspot.com/2011/01/kiss-videos.html




hot lip kiss
http://hotvidos.blogspot.com/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.com/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.com/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.com/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.com/2010/07/tamil-hot-videos.html


From 369587388193226080
X-Google-Thread: fc2a5,47adacf93e23e5bb,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news1.google.com!postnews.google.com!i39g2000prd.googlegroups.com!not-for-mail
From: fitz <zeusrdx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: A. G. Lisi's E8 model may be showing us what both our space & time really are.
Date: Tue, 19 Apr 2011 19:37:03 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <8b46ed4c-2855-489b-92b0-9c536f76edcc@i39g2000prd.googlegroups.com>
NNTP-Posting-Host: 64.53.76.46
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1303267023 30193 127.0.0.1 (20 Apr 2011 02:37:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 20 Apr 2011 02:37:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i39g2000prd.googlegroups.com; posting-host=64.53.76.46; posting-account=A451vgoAAABycJv5ugpkfX8QG96-xuRZ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0; Trident/4.0; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR 3.0.30618; yie8),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4390

A. G. Lisi's E8 model may be showing us what both our space & time really are.

(Click link below.)

http://www.amperefitz.com/e8.htm

Crystals and chemical compounds are tied up with group theory which best explains (mathematically) exactly why they form the particular way they do.

Lisi's E8 model is a group theory model that may be showing us why our space forms the way it does via frequencies that cannot be directly measured from inside of our particular space-time realm (Wheeler - Feynman).

Click link below for MORE:

http://www.amperefitz.com/e8.htm

From -4892006353741191811
X-Google-Thread: fc2a5,293a151f4e1a93ea
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!news.dfncis.de!not-for-mail

From: Markus Wolfgart <markus.wolfgart@dlr.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP8562B - YTO- PCB - help wanted!
Date: Wed, 20 Apr 2011 09:21:39 +0200
Lines: 110
Message-ID: <917fs4FmmkU2@mid.dfncis.de>
References: <912jqrF5buU1@mid.dfncis.de> <914q0pFmmnU1@mid.dfncis.de>
<bdffb8f2-273c-4a2e-804e-ee0a9e9257e5@v33g2000prn.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: news.dfncis.de dQFmNCZh7LR2HInis9pgaAk28AivduFgZsoboW1Vo+e1O1sWdjTPlu2EUb
Cancel-Lock: sha1:0mvrAjgMAVPIjQQ2OgsawQf7/2A=
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; de; rv:1.9.2.14) Gecko/20110221
SUSE/3.1.8 Thunderbird/3.1.8
In-Reply-To: <bdffb8f2-273c-4a2e-804e-ee0a9e9257e5@v33g2000prn.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:4688

Dear Tom,

many thanks for your detailed explanation.

Today before my breakfast;-) I replaced two caps
a little choke and the destroyed resistor (I guess a value of 75Ohm)
by some parts of my ham box.
The second cap which was connected to the resistor which overheat was
shorted too but looks good from outside in contrast to the one which was
destroyed.
A quick and dirty solution for the moment until I get the proper infos.
This dirty solution was so far successful as I could see the spectrum of
the 300MHz test oscillator build in ;-)

Now I will check the docs in order to find out how to proof that the SA
is working properly.

I will keep you informed on further progress.

By the way I get some help from your good friend Barry WA4VZQ
via mail.

vy73

Markus

Am 20.04.2011 00:37, schrieb K7ITM:
> On Apr 18, 11:56 pm, Markus Wolfgart <markus.wolfg...@dlr.de> wrote:
>> Dear om Andrew dear om Tom,
>>
>> many thanks for your prompt replay.
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>>
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>>> yig oscillator inside the mentioned device above.
>>
>>> see link: (http://www.mikrocontroller.net/topic/215840#2149959)
>>
>>> I'm looking for the proper value of the destroyed resistor (< 50 ohm) in
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>>
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>>> or could send me a copy of it.
>>
>>> Any help would be appreciated.
>>
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>>
>>> Markus
>>> alias
>>> DL8MBY

>
> Addendum: the label on the op amp, PMI9017, is undoubtedly the date
> code: 17th week of 1990. The 1826-1149 is an HP part number: all
> common HP parts have a "4x4" HP number; ones special to a single
> instrument or a few instruments may have a "5x5" number. Note that
> the printed circuit board has a 4x4 number: 5062-0752. That suggests
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> example a 316 ohm resistor could be purchased from any of several
> different suppliers, all qualified to meet the requirements of the
> particular 4x4 part number. But in some rare cases, a 4x4 number
> refers to a part selected for especially good performance in some
> area, and you couldn't be guaranteed to maintain performance of the
> instrument with a similar non-selected "generic" part.
>
> Cheers,
> Tom

```
From -312142341350269542
X-Google-Thread: fc2a5,c7fdf29d90e7f117,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l6g2000vbn.googlegroups.com!not-for-
mail
From: stryped <stryped1@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Building a tv tower hinge. Would this work?
Date: Wed, 20 Apr 2011 08:56:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 37
Message-ID: <ee5c6f01-d6d6-4243-a825-6d9fc5803ad5@l6g2000vbn.googlegroups.com>
NNTP-Posting-Host: 12.185.192.34
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1303314994 18396 127.0.0.1 (20 Apr 2011 15:56:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 20 Apr 2011 15:56:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l6g2000vbn.googlegroups.com; posting-host=12.185.192.34; posting-
account=7bJxJQkAAAB5hAhyO2LNwIX1wWE-UPO1
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
 Trident/4.0; GTB6.6; .NET CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR
 3.0.04506.30; .NET CLR 3.0.04506.648; .NET CLR 3.0.4506.2152; .NET CLR
 3.5.30729; .NET4.0C; .NET4.0E),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4392
```

My idea is to make some sort of hinge so I could lower it over and raise it. I know I mentioned it before but now seems to be the time I need to do it. (My little boy is starting to find pieces of the antenna in the yard.)

My thought was to dig a hole beside my current antenna a couple of feet deep and in circumfrence. Place some 3 inch schedule 80 pipe (one for each corner) into the holw with a 2x2 or so piece of 1/4 inch steel on top. On the end of the plate would be welded a few pieces of black pipe the diameter of a hitch pin. There would be another piece of 2x2x1/4 piece of steel with more black iron pipe on it. The black iron pipe would in effect be the "hinge" part of the mechanism. (sort of the way I made the fold down gate for my trailer).

Here is where I am having trouble. On top of the "top" plate, I have some 2 inch black iron pipe. My first thought is two weld three of these as "legs" on top of the top plate, then put my cut down exisiting tower into this pipe, drilling a hole through each leg. (The new two inch pipe and the legs on the tower). Instering a grade 5 bolt into this. I have also thought, I wonder if it would be easier to just put the three legs up and use u bolts to attach the tv tower to the outside of the legs.

I would still need to climb part way up it or have the capability to to adjust my sat dish. I cant figure out a good way to do it with the tower leaned over.

By the way, I am a ham too!

From -5743534086212611059
X-Google-Thread: fc2a5,738fe46ff09565d9,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v11g2000prb.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ADULTS HOT VIDEOS SITES AND SEXY PHOTOS SEE
Date: Wed, 20 Apr 2011 18:07:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32

```
Message-ID: <85254899-bea7-49b0-945e-6dd1fc1b280c@v11g2000prb.googlegroups.com>
NNTP-Posting-Host: 117.199.242.253
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1303348049 10387 127.0.0.1 (21 Apr 2011 01:07:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Apr 2011 01:07:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v11g2000prb.googlegroups.com; posting-host=117.199.242.253;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4690


      A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.com/



             ALL HOT PHOTOS SUPER SeXY PHOTOS

http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

               ALL  JOBS   SITES FREE SEE

http://jobstwo.blogspot.com/




HOT VIDEOS

http://hotvideotoou.blogspot.com/2011/01/kiss-videos.html




hot lip kiss
http://hotvidos.blogspot.com/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.com/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.com/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.com/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.com/2010/07/tamil-hot-videos.html


From -2026137707910467470
X-Google-Thread: fc2a5,8b2a91e8f9d41a33,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-12.dc1.easynews.com.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: FS: Great looking VHF xmtr. & Misc
From: Eugene Rippen <soundval@muchstuff.com>
Organization: Your Company
Message-ID: <Xns9ECE94AACD129er7373@69.16.186.52>
User-Agent: Xnews/5.04.25
Lines: 38
X-Complaints-To: abuse@easynews.com
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Thu, 21 Apr 2011 21:36:55 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:4394

The following are for sale.
PayPal or personal checks. PayPal takes credit cards.
Shipping to be added. Ship USA only.

VHF great looking homebrew transmitter. Must look at this.
(I got this with a Motorola power supply.
I'm not offering the power supply, but if someone is
interested in it. I estimate the weight of the power supply without the
transformer at 50 lbs, and the transformer at 70 pounds.) Neither the
transmitter nor the PS have been tested. The tube is a PL 4D21.
I will use 13 lbs as the shipping weight. $95.00
http://www.muchstuff.com/3-9-11mics/p1000756.jpg
http://www.muchstuff.com/3-9-11mics/p1000757.jpg

"Bud" index card metal box. I will use 1 lb. as shipping weight. $10.00
http://www.muchstuff.com/3-9-11mics/p1000760.jpg

Old, and I mean OLD!, Rheostat. 1.25 Amp. 32 ohms. I will use 4.5 lbs
as
shipping weight. $5.00.
http://www.muchstuff.com/3-9-11mics/p1000762.jpg
http://www.muchstuff.com/3-9-11mics/p1000763.jpg
http://www.muchstuff.com/3-9-11mics/p1000764.jpg

Fujiden Low Pass filter. 50 ohms impedance. "Fc-32 MHz" 100 W. I will
use
1 lb. as shipping weight. $10.00
http://www.muchstuff.com/3-9-11mics/p1000766.jpg

Palomar Engineers CW Filter. I will use 1 lb. as shipping weight.
$10.00
http://www.muchstuff.com/3-9-11mics/p1000765.jpg

Eugene Rippen, WB6SZS

Auburn, CA.

```
From -75906191524702850
X-Google-Thread: fc2a5,1a1f253aff6abae7,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-02!easynews.com!en-
nntp-16.dc1.easynews.com.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: FS: Bundled: Var Caps, Trimmers, Heat Sinks, Spkrs, Mil Type Connectors
From: Eugene Rippen <soundval@muchstuff.com>
Organization: Your Company
Message-ID: <Xns9ECEA938974E5er7373@69.16.186.52>
User-Agent: Xnews/5.04.25
Lines: 35
X-Complaints-To: abuse@easynews.com
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Thu, 21 Apr 2011 23:38:09 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:4692

PayPal, USPS money orders or personal checks only.
    PayPal takes credit cards.
Items are held from sale to others for 4 days to
    receive payment
Shipping to be added.  Ship USA only.
Respond with ZIP.
Please don't ask me about individual items.

27 Heat Sinks. Unused and used.  $19 obo  Will use 9 lbs.
as SW.
http://www.muchstuff.com/4-21-11/hs1.jpg
http://www.muchstuff.com/4-21-11/hs2.jpg

5 sets (male & female) military style connectors.  Used.
$12.  Will use 5 lbs as SW.
http://www.muchstuff.com/4-21-11/milcon.jpg

11 working speakers (6 unused, 5 used) the 3 with the
big magnets are new.  $40 obo.  Will use 10 lbs. as SW
http://www.muchstuff.com/4-21-11/11sp.jpg

30 variable capacitors. Unused and used.  $35 obo.
Will use 6 lbs as SW.
http://www.muchstuff.com/4-21-11/30vcaps.jpg

22 variable capacitors.  Unused and used.  $ 18 obo.
Will use 5 lbs. as SW.
http://www.muchstuff.com/4-21-11/22vcaps.jpg
```

48 trimmers and padders. Mostly unused. $15.
Will use 1.5 lbs. as SW.
http://www.muchstuff.com/4-21-11/48trim.jpg

Eugene Rippen, WB6SZS
Auburn, CA   95603

From -7724001798912567363
X-Google-Thread: fc2a5,3ebeb2d6e5f0995b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r4g2000prm.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SEXY VIDEOS YOU MUST SEE MASALA HOT PHOTOS
Date: Thu, 21 Apr 2011 18:04:00 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <989e409e-e43a-42d3-a760-f569f2c252c9@r4g2000prm.googlegroups.com>
NNTP-Posting-Host: 117.199.243.67
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1303434241 13039 127.0.0.1 (22 Apr 2011 01:04:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Apr 2011 01:04:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r4g2000prm.googlegroups.com; posting-host=117.199.243.67; posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4693

A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.com/

ALL HOT PHOTOS SUPER SeXY PHOTOS

http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

ALL JOBS   SITES FREE SEE

http://jobstwo.blogspot.com/

HOT VIDEOS

http://hotvideotoou.blogspot.com/2011/01/kiss-videos.html

hot lip kiss
http://hotvidos.blogspot.com/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.com/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.com/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.com/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.com/2010/07/tamil-hot-videos.html

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From -1331094942490446943
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X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i39g2000prd.googlegroups.com!not-for-
mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT ACTRESS
Date: Fri, 22 Apr 2011 08:32:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 25
Message-ID: <21f71b5b-09e8-4f3b-999e-b5e78b75568a@i39g2000prd.googlegroups.com>
NNTP-Posting-Host: 117.199.242.37
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1303486374 15482 127.0.0.1 (22 Apr 2011 15:32:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Apr 2011 15:32:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i39g2000prd.googlegroups.com; posting-host=117.199.242.37;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4694
```

hot katrina kaif wallpapers
http://cinyworld96.blogspot.com/2011/03/katrina-kaif.html
new hot sruthi hassan stills
http://cinyworld96.blogspot.com/2011/03/shruthi-hassan.html
namitha hot sexy stills
http://cinyworld96.blogspot.com/2011/04/namitha.html

```
              deepika padukone new stills
http://cinyworld96.blogspot.com/2011/03/deepika-padukone.html
              hot tamanna sexy wallpapers
http://cinyworld96.blogspot.com/2011/04/tamanna.html
                beautiful aishwariya rai
http://cinyworld96.blogspot.com/2011/03/aishwariya-rai.html
                 diya mirza sexy photos
http://cinyworld96.blogspot.com/2011/03/diya-mirza.html
               stunning beauty sneha
http://cinyworld96.blogspot.com/2011/03/sneha.html
                unbelivable iliyana photos
http://cinyworld96.blogspot.com/2011/03/iliyana.html
              priyamani beautiful stills
http://cinyworld96.blogspot.com/2011/03/priyamani.html
               pranitha in half saree
http://cinyworld96.blogspot.com/2011/03/pranitha.html
              richa saree stills
http://cinyworld96.blogspot.com/2011/03/richa-gangopadyay.html


From -8591499105392059488
X-Google-Thread: fc2a5,804d0d2ff7a62fd2,start
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,804d0d2ff7a62fd2,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w14g2000prc.googlegroups.com!not-for-
mail
From: christinapolo08@163.com
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: =?ISO-8859-1?Q?free_shipping_paypal_payment_wholesale_CLOTHING_jack?=
     =?ISO-8859-1?Q?
et_T=2Dshirt_long_sleeve_suit_and_hoody=28Franklin_Marshall=2CMonc?=
     =?ISO-8859-1?Q?
lereiderdown=2Cnike=2Cadidas=2Ca=26f=2Cd=26g=2Ced_harday=2Cbape=2Cbbc=2Clv=2Cgucci
?=
     =?ISO-8859-1?Q?=2Carman=ADi=2Cpolo=2C_poul_smith_and_so_on=29?=
Date: Sat, 23 Apr 2011 00:38:21 -0700 (PDT)
Organization: http://groups.google.com
Lines: 101
Message-ID: <4d294248-8dc2-470c-81a5-48f031a23ec1@w14g2000prc.googlegroups.com>
NNTP-Posting-Host: 65.49.14.54
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 23 Apr 2011 07:38:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w14g2000prc.googlegroups.com; posting-host=65.49.14.54; posting-
account=SsxrSwoAAAC-9N8gMg0LahXSMdVZbxWV
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
```

GTB6.6),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4398 rec.puzzles.crosswords:10361

Paypal Payment AAA True leather Handbags,Purse,Chanel,Coach,PRADA,JUICY,D&G,Dior,LV,VERSACE,etc.All Wholesale On Site : www.idesigerworld02.com Exempt Freight

Handbags

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Balenciaga Handbags wholesaler (www.idesigerworld02.com) - (paypal payment)
Balenciaga Purse wholesaler
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BOSS Purse wholesaler   (www.idesigerworld02.com) - (paypal payment)
Chanel Handbags wholesaler
Chanel Purse wholesaler
Chloe Handbags wholesaler (www.idesigerworld02.com) - (paypal payment)
Chloe Purse wholesaler
Coach Handbags wholesaler (www.idesigerworld02.com) - (paypal payment)
Coach Purse wholesaler
D&G Purse wholesaler (www.idesigerworld02.com) - (paypal payment)
Dior Handbags wholesaler
Dunhill Purse wholesaler
Gucci Handbags wholesaler (www.idesigerworld02.com) - (paypal payment)
Gucci Purse wholesaler
Hermes Purse wholesaler
JIMMY CHOO Handbags wholesaler (www.idesigerworld02.com) - (paypal payment)
JIMMY CHOO Purse wholesaler
LV Handbags wholesaler (www.idesigerworld02.com) - (paypal payment)
LV Purse wholesaler
FENDI Handbags wholesaler
Hermes Handbags wholesaler (www.idesigerworld02.com) - (paypal payment)
JUICY Handbags wholesaler
KOOBA Handbags wholesaler (www.idesigerworld02.com) - (paypal payment)
LOEWE Handbags wholesaler
Marc Jacobs Handbags wholesaler (www.idesigerworld02.com) - (paypal payment)
MIUMIU Handbags wholesaler
MULBERRY Handbags wholesaler
THOMASWYLDE Handbags wholesaler (www.idesigerworld02.com) - (paypal payment)
PRADA Handbags wholesaler (www.idesigerworld02.com) - (paypal

payment)
PRADA Purse wholesaler
Valentnv Handbags wholesaler (www.idesigerworld02.com) - (paypal payment)
D&G Handbags wholesaler
VERSACE Handbags wholesaler
Lancel Handbags wholesaler (www.idesigerworld02.com) - (paypal payment)

Purse

Anna Purse wholesaler
Ferragmo Purse wholesaler
burbetty Purse wholesaler
Chanel Purse wholesaler
Chloe Purse wholesaler (www.idesigerworld02.com) - (paypal payment)
Coach Purse wholesaler (www.idesigerworld02.com) - (paypal payment)
D&G Purse wholesaler
Dior Purse wholesaler
Dooney&Bourke Purse wholesaler (www.idesigerworld02.com) - (paypal payment)
ED Purse wholesaler
Fendi Purse wholesaler (www.idesigerworld02.com) - (paypal payment)
Gucci Purse wholesaler (www.idesigerworld02.com) - (paypal payment)
LV Purse wholesaler
Guess Purse wholesaler (www.idesigerworld02.com) - (paypal payment)
PRADA Purse wholesaler
Tous Purse wholesaler (www.idesigerworld02.com) - (paypal payment)
Versace Purse wholesaler
Miumiu Purse wholesaler (www.idesigerworld02.com) - (paypal payment)

Handbags

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Burberry Handbags (www.idesigerworld02.com) - (paypal payment)
Chanel Handbags (www.idesigerworld02.com) - (paypal payment)
Chloe Handbags
Christian Audigier Handbags
Coach Handbags (www.idesigerworld02.com) - (paypal payment)
D&G Handbags
Dooney&Bourke Handbags (www.idesigerworld02.com) - (paypal payment)
ED Hardy Handbags
Fendi Handbags
Gucci Handbags (www.idesigerworld02.com) - (paypal payment)
Hermas Handbags
JIMMY CHOO Handbags
Juicy Handbags (www.idesigerworld02.com) - (paypal payment)
LV Handbags
Miu Miu Handbags (www.idesigerworld02.com) - (paypal payment)
Prada Handbags
Versace Handbags
Tous Handbag (www.idesigerworld02.com) - (paypal payment)

From 1727303512352362450
X-Google-Thread: fc2a5,6d25d11d4a56666b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder3.cambriumusenet.nl!
feeder1.cambriumusenet.nl!feed.tweaknews.nl!216.196.110.149.MISMATCH!
border2.nntp.ams.giganews.com!nntp.giganews.com!eternal-september.org!
feeder.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My latest homebrew project....
Date: Sat, 23 Apr 2011 16:15:47 -0400
Organization: A noiseless patient Spider
Lines: 38
Message-ID: <iovc1i$m1a$1@dont-email.me>
References: <iodibe$t5j$1@dont-email.me>
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 23 Apr 2011 20:15:47 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="BymgdnD5gGDWMqwSYHyd4A";
     logging-data="22570"; mail-complaints-to="abuse@eternal-september.org";
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User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.14) Gecko/20110223
Thunderbird/3.1.8
In-Reply-To: <iodibe$t5j$1@dont-email.me>
Cancel-Lock: sha1:0+ghfEoNhh0eFFhKBEKhsepFxUs=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4696

Link to photo:
http://scharkalvin.weebly.com/hb100-home-brew-transceiver-front-panel.html

On 04/16/2011 10:12 PM, Kenneth Scharf wrote:

> Ever since I got my ham ticket (in 1970) I've always wanted to build a
> complete transceiver. (I DID build a Heathkit SB102). The project always
> seemed a bit too complex though. The problem was I couldn't build it a
> piece at a time, and be able to then put all the bits in a box. In order
> to do that I'd have to design the entire rig ahead of time so all the
> subsystems could have access to the panel for their controls.
>
> Fast forward. Today what with micro-controllers and control by wire
> parts (such as varicap diodes, digital pots, dds chips, etc) all the
> subsystems can go anywhere and you only have to have room in the box for
> all of them.
>
> I've started designing a home brew transceiver around a few modules I've
> seen on line and in various magazines. I've got a DDS-60 for my VFO and
> I'm programming an Atmel atmega32 processor to control it. A Bandpass
> filter design by PA3AKE using toroids, an IF amplifier by W7ZOI and

> WA7MLH using fets and bipolar transistors, and a product detector (from
> a direct conversion receiver) by KK7B will form the basis for the
> receiver. I have some 9 mhz if filters purchased at Dayton many years
> ago. The transmitter stages will be based on 'stock' HB circuits. Later
> I might add KK7P's DSP unit with the PicaStar software.
>
> So far I have the DDS working and I've built the KK7B product detector
> and audio filter board. I still have to build his audio amplifier
> circuit (I divided the project into two circuit boards). I started
> working on a cabinet to house the completed rig in. I had a nice surplus
> cabinet purchased in NYC back in the 1970's in my junk box just waiting
> for a project. Over the past two weeks I've been cutting openings in the
> front panel for the controls, LCD, and keypad. I still have to repaint
> the panel and the cabinet (40 years of storage hasn't helped the finish!).
>

From -4590823162375815572
X-Google-Thread: fc2a5,6d25d11d4a56666b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My latest homebrew project....
Date: Sat, 23 Apr 2011 16:42:33 -0400
Organization: A noiseless patient Spider
Lines: 36
Message-ID: <iovdjp$a1m$1@dont-email.me>
References: <iodibe$t5j$1@dont-email.me>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 23 Apr 2011 20:42:33 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="BymgdnD5gGDWMqwSYHyd4A";
logging-data="10294"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX19ucym/LWW4LDA0HFPmUqS0Bl7YSDfzhdA="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.14) Gecko/20110223 Thunderbird/3.1.8
In-Reply-To: <iodibe$t5j$1@dont-email.me>
Cancel-Lock: sha1:ggrt/zE4lgsgjzjqnT899VG+kwU=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4400

I've also posted some info on the kitsandparts forum
http://kitsandparts.com/fluxbb/viewtopic.php?pid=1061#p1061

On 04/16/2011 10:12 PM, Kenneth Scharf wrote:
> Ever since I got my ham ticket (in 1970) I've always wanted to build a
> complete transceiver. (I DID build a Heathkit SB102). The project always

> seemed a bit too complex though. The problem was I couldn't build it a piece at a time, and be able to then put all the bits in a box. In order to do that I'd have to design the entire rig ahead of time so all the subsystems could have access to the panel for their controls.
>
> Fast forward. Today what with micro-controllers and control by wire parts (such as varicap diodes, digital pots, dds chips, etc) all the subsystems can go anywhere and you only have to have room in the box for all of them.
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> So far I have the DDS working and I've built the KK7B product detector and audio filter board. I still have to build his audio amplifier circuit (I divided the project into two circuit boards). I started working on a cabinet to house the completed rig in. I had a nice surplus cabinet purchased in NYC back in the 1970's in my junk box just waiting for a project. Over the past two weeks I've been cutting openings in the front panel for the controls, LCD, and keypad. I still have to repaint the panel and the cabinet (40 years of storage hasn't helped the finish!).
>

From 6307108410949386267
X-Google-Thread: fc2a5,a620f038d44583db,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q12g2000prb.googlegroups.com!not-for-mail
From: bgfbfjgg ojdhdsd <uijsbhsbchsv@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: BEST HOT VIDEO WATCH HERE MODLES HOT PHOTOS
Date: Sat, 23 Apr 2011 22:00:19 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <956d40c6-30fe-4fb2-b5f2-e131a85c245f@q12g2000prb.googlegroups.com>
NNTP-Posting-Host: 117.199.250.50
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1303621219 9776 127.0.0.1 (24 Apr 2011 05:00:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 24 Apr 2011 05:00:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com

```
Injection-Info: q12g2000prb.googlegroups.com; posting-host=117.199.250.50;
posting-account=VkOAtQoAAACEcOLC5-eHi1eJjZH4zy38
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4401


      A TO Z INFORMATION SEE IN THIS SITE

http://atwoztopic.blogspot.com/


             ALL HOT PHOTOS SUPER SeXY PHOTOS

http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

               ALL  JOBS   SITES FREE SEE

http://jobstwo.blogspot.com/




HOT VIDEOS

http://hotvideotoou.blogspot.com/2011/01/kiss-videos.html




hot lip kiss
http://hotvidos.blogspot.com/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.com/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.com/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.com/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.com/2010/07/tamil-hot-videos.html


From 8722400641057150672
X-Google-Thread: 11480d,9344788875c75ae1
X-Google-NewGroupId: yes
X-Google-Thread: 108122,9344788875c75ae1
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,9344788875c75ae1
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,9344788875c75ae1
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,9344788875c75ae1
X-Google-NewGroupId: yes
X-Google-Attributes:
```

```
gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf6,domainid0,pu
blic,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!w6g2000vbo.googlegroups.com!not-for-
mail
From: kb9rqz <mark@kb9rqz.com>
Newsgroups:
rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.ra
dio.amateur.misc,rec.radio.amateur.policy
Subject: get kelp
Date: Fri, 1 Apr 2011 13:26:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 5
Distribution: world
Message-ID: <f28de0bc-5278-4a3b-9c3d-9f95187c7878@w6g2000vbo.googlegroups.com>
References: <radio/ham-radio/moderated/crossposting-1-1301637601@panix.com>
NNTP-Posting-Host: 66.82.162.18
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1301689586 31835 127.0.0.1 (1 Apr 2011 20:26:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 1 Apr 2011 20:26:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w6g2000vbo.googlegroups.com; posting-host=66.82.162.18; posting-
account=3ePh8QoAAABpiNDYEy2_bPCVy_4Crs1n
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
 Trident/4.0; .NET CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152;
 .NET CLR 3.5.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.dx:987 rec.radio.amateur.equipment:2783
rec.radio.amateur.homebrew:4599 rec.radio.amateur.misc:6320
rec.radio.amateur.policy:33071

On Apr 1, 2:00=A0am, r...@panix.com (rec.radio.amateur.moderated Admin)
wrote:
> Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)




From -4560013294393667211
X-Google-Thread: fc2a5,b8349205ef684800,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q12g2000prb.googlegroups.com!not-for-
mail
From: sowmya <sowmya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: adult hot photos&videos
Date: Fri, 1 Apr 2011 21:14:30 -0700 (PDT)
Organization: http://groups.google.com
```

```
Lines: 20
Message-ID: <3fce762a-df19-440f-9a24-dd4a3e121ee3@q12g2000prb.googlegroups.com>
NNTP-Posting-Host: 117.199.247.170
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1301717671 8545 127.0.0.1 (2 Apr 2011 04:14:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 2 Apr 2011 04:14:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q12g2000prb.googlegroups.com; posting-host=117.199.247.170;
posting-account=GuIc0goAAABHuN9VJ4di0FQvlAtWov1J
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4303

  hot lipkiss
http://hotactressstoyou.blogspot.com/2011/04/lipkiss-2.html
               lipkiss in without dress
http://hotactressstoyou.blogspot.com/2011/04/lipkiss.html
                seepika padukone sexy back look
http://hotactressstoyou.blogspot.com/2011/04/deepika-padukone.html
                   sexy katrina kaif
http://hotactressstoyou.blogspot.com/2011/04/katrina-kaif.html
            beauty keerthi chawla
http://hotactressstoyou.blogspot.com/2011/04/keerthi-chawla.html
               saloni sexy photos
http://hotactressstoyou.blogspot.com/2011/04/saloni.html
             deeksha seth in a hot saree
http://hotactressstoyou.blogspot.com/2011/04/deeksha-seth.html
             asin hot wallpapers
http://hotactressstoyou.blogspot.com/2011/04/asin.html
            ramba in a red dress
http://hotactressstoyou.blogspot.com/2011/04/ramba.html
              sexy ilieana is in scert
http://hotactressstoyou.blogspot.com/2011/04/ileana.html


From -7902119796090965160
X-Google-Thread: fc2a5,714e4567624cff23,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o21g2000prh.googlegroups.com!not-for-
mail
From: bgfbfjgg ojdhdsd <uijsbhsbchsv@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SUPER HOT VIDEOS N BULK SEXY PHOTOS
Date: Sun, 3 Apr 2011 17:08:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
Message-ID: <8464e131-afa0-4018-bcd0-fa4fad2df2d4@o21g2000prh.googlegroups.com>
NNTP-Posting-Host: 117.199.241.39
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1301875734 5384 127.0.0.1 (4 Apr 2011 00:08:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 4 Apr 2011 00:08:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o21g2000prh.googlegroups.com; posting-host=117.199.241.39;
posting-account=VkOAtQoAAACEcOLC5-eHi1eJjZH4zy38
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4601
```

ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

for more hot videos

http://videosonblog.blogspot.com/2010/11/masala-videos.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

```
From -4391549902875521900
X-Google-Thread: fc2a5,f38fb3471ab76a76,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r13g2000yqk.googlegroups.com!not-for-
mail
From: Des <desotuatail@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: hydrometer calculation
Date: Mon, 4 Apr 2011 04:30:44 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <863f0e75-3503-4390-94d4-1cff432a2bce@r13g2000yqk.googlegroups.com>
NNTP-Posting-Host: 92.12.19.83
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1301916644 25971 127.0.0.1 (4 Apr 2011 11:30:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 4 Apr 2011 11:30:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r13g2000yqk.googlegroups.com; posting-host=92.12.19.83; posting-
account=Z7jzqAoAAACp73gHIzYwRo5YRP7iJCDY
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1; WOW64;
 Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
 3.0.30729; Media Center PC 6.0; InfoPath.2; Creative AutoUpdate
v1.40.01),gzip(gfe)
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:4602

Hi I am trying to work out alcohol content. On my hydrometer at the 40
point it 6.5%. This means if it dropped to 1.000 then the alcohol
content would be 6.5%. Obviously it would not go that low. With wine
It does go below this value. I wanted to work out the alcohol content
for this but the Hydrometer does not display below 5%.

If the Starting value of the wine is 1.080 (12.8%) and it goes below
1.000 then the alcohol content would I asume be higher. Is there a
calculation that I could use. There are websites that can adjust
readings for temprature adjustment but not a SG to alcohol conversion.

TIA

Desmond.

From -2246070409357598251
X-Google-Thread: fc2a5,f38fb3471ab76a76
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
news2.arglkargh.de!news-transit.tcx.org.uk!cs.uu.nl!news0.firedrake.org!not-for-
mail
From: mikea <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: hydrometer calculation
Date: Mon, 4 Apr 2011 02:53:57 -0500
Organization: Firedrake Synthesis
Lines: 23
Message-ID: <l1ao68-itb.ln1@mikea.ath.cx>
References: <863f0e75-3503-4390-94d4-1cff432a2bce@r13g2000yqk.googlegroups.com>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: parhelion.firedrake.org 1301921632 18081 70.164.65.62 (4 Apr 2011
12:53:52 GMT)
X-Complaints-To: usenet@parhelion.firedrake.org
NNTP-Posting-Date: Mon, 4 Apr 2011 12:53:52 +0000 (UTC)
User-Agent: tin (SOAP 3; IBM 650)
X-Not-Approved: vqrrf@ivqrbgeba.dp.pn-vf-n-gebyy
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (FreeBSD/7.1-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:4603

Des <desotuatail@aol.com> wrote in
<863f0e75-3503-4390-94d4-1cff432a2bce@r13g2000yqk.googlegroups.com>:
> Hi I am trying to work out alcohol content. On my hydrometer at the 40
> point it 6.5%. This means if it dropped to 1.000 then the alcohol
> content would be 6.5%. Obviously it would not go that low. With wine
> It does go below this value. I wanted to work out the alcohol content
> for this but the Hydrometer does not display below 5%.
>
> If the Starting value of the wine is 1.080 (12.8%) and it goes below

> 1.000 then the alcohol content would I asume be higher. Is there a
> calculation that I could use. There are websites that can adjust
> readings for temprature adjustment but not a SG to alcohol conversion.

Erm ...

Des, this group is for "homebrewing" of radio equipment (transmitters, receivers, amplifiers, accessories), and has nothing to do with fermentation or fermentation products.

--
> >> .... from S-30 to ...
> >Now _there's_ a signal report you don't often enter in your log...
> True... most of us are too busy running away from the electric arcs
> and dodging the ball lightning :-) -- Dave Platt, in r.r.a.h

From -2039482333061993982
X-Google-Thread: fc2a5,3933e2bc97502451,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a11g2000pro.googlegroups.com!not-for-mail
From: "Thomas M. Alldread" <tma.custom.ee@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: NimbleSig III Dual DDS RF Analyzer - Design Package Download
Date: Mon, 4 Apr 2011 14:03:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 29
Message-ID: <7e613b9e-b8ea-4b53-a4d7-6f32884ad078@a11g2000pro.googlegroups.com>
NNTP-Posting-Host: 207.161.70.145
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1301950985 14426 127.0.0.1 (4 Apr 2011 21:03:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 4 Apr 2011 21:03:05 +0000 (UTC)
Cc: tmall@telus.net
Complaints-To: groups-abuse@google.com
Injection-Info: a11g2000pro.googlegroups.com; posting-host=207.161.70.145; posting-account=orkUwgoAAAC8_CbHy7-A8P_RshAedfPo
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4604

Greetings All:

I have entered my NS3 DDS based RF Analyzer design into the Renesas Rulz RX microcontroller design contest. There is a general description with links to three YouTube videos on the Renesas web site that

describe the capabilities of the analyzer. There is a pdf download for
the full project description illustrated with photos and schematics.
There is also a zip download for the public domain source code files
all posted at:

http://www.renesasrulz.com/docs/DOC-1747

The firmware is written in C under the Renesas RX Standard Tools
compiler which is free for up to 128K of code. The current software
size is less than 100K thus there is still room for customization
within the unlicensed tools size limit. I hope that in the future
someone will find the time to port the code over to the gcc compiler
alternative which would circumvent the free tools size limitation.

I have a limited number of bare PCB boards available for the various
modules but have not documented them on my website yet.

There are still many more features that could with time be added but I
think it is fair to say this project is out-of-the-gate.

73,
Tom, VA7TA

```
From 2483902964686800289
X-Google-Thread: fc2a5,3933e2bc97502451
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-15.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <7e613b9e-b8ea-4b53-a4d7-6f32884ad078@a11g2000pro.googlegroups.com>
Subject: Re: NimbleSig III Dual DDS RF Analyzer - Design Package Download
Lines: 6
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
Message-ID: <UoImp.5973$of7.4135@en-nntp-15.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Tue, 5 Apr 2011 10:34:42 -0700
```

```
Xref: g2news2.google.com rec.radio.amateur.homebrew:4605
```

Looks really nice, Thomas!

I'm curious -- which GUI toolkit does this use?

Thanks,
---Joel Koltner

```
From 2359384098586968302
X-Google-Thread: fc2a5,f38fb3471ab76a76
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!2g2000vbl.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: hydrometer calculation
Date: Tue, 5 Apr 2011 10:42:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 39
Message-ID: <dc37babc-1585-4079-b201-8b9836419b8c@2g2000vbl.googlegroups.com>
References: <863f0e75-3503-4390-94d4-1cff432a2bce@r13g2000yqk.googlegroups.com>
 <l1ao68-itb.ln1@mikea.ath.cx>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1302025329 5938 127.0.0.1 (5 Apr 2011 17:42:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 5 Apr 2011 17:42:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 2g2000vbl.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.18)
 Gecko/20110320 SeaMonkey/2.0.13,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4309
```

i think he is trying to make vinegar not vino, cause you sure can
attract more flies with oh never mine

On Apr 4, 3:53=A0am, mikea <mi...@mikea.ath.cx> wrote:

```
> Des <desotuat...@aol.com> wrote in <863f0e75-3503-4390-94d4-1cff432a2...@=
r13g2000yqk.googlegroups.com>:
>
> > Hi I am trying to work out alcohol content. On my hydrometer at the 40
> > point it 6.5%. This means if it dropped to 1.000 then the alcohol
> > content would be 6.5%. Obviously it would not go that low. With wine
> > It does go below this value. I wanted to work out the alcohol content
> > for this but the Hydrometer does not display below 5%.
>
> > If the Starting value of the wine is 1.080 (12.8%) and it goes below
> > 1.000 then the alcohol content would I asume be higher. Is there a
> > calculation that I could use. There are websites that can adjust
> > readings for temprature adjustment but not a SG to alcohol conversion.
>
> Erm ...
>
> Des, this group is for "homebrewing" of radio equipment (transmitters,
> receivers, amplifiers, accessories), and has nothing to do with
> fermentation or fermentation products.
>
> --
>
> > >> .... from S-30 to ...
> > >Now _there's_ a signal report you don't often enter in your log...
> > True... most of us are too busy running away from the electric arcs
> > and dodging the ball lightning :-) -- Dave Platt, in r.r.a.h



From 2640783513658423379
X-Google-Thread: fc2a5,f38fb3471ab76a76
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!proxad.net!
feeder1-2.proxad.net!feeder.erje.net!news2.arglkargh.de!news.theremailer.net!
frell.theremailer.net!anonymous
From: Fritz Wuehler <fritz@spamexpire-201104.rodent.frell.theremailer.net>
Comments: This message did not originate from the Sender address above.
     It was remailed automatically by anonymizing remailer software.
     Please report problems or inappropriate use to the
     remailer administrator at <abuse@frell.theremailer.net>.
     Identifying the real sender is technically impossible.
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: hydrometer calculation
References: <l1ao68-itb.ln1@mikea.ath.cx>
Message-ID: <86cd38a3abc2f058176f6a1442d9fabb@msgid.frell.theremailer.net>
Precedence: anon
Date: Tue, 05 Apr 2011 20:06:49 +0200
Mail-To-News-Contact: abuse@frell.theremailer.net
Organization: Frell Anonymous Remailer
Xref: g2news2.google.com rec.radio.amateur.homebrew:4607
```

> Des, this group is for "homebrewing" of radio equipment (transmitters,
> receivers, amplifiers, accessories), and has nothing to do with
> fermentation or fermentation products.

You said it better (urp) then I could. Damn (urp) drunks! Now where'd I put
that straight key...

```
From 3278247776580733669
X-Google-Thread: fc2a5,c5c297733f924ee4,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d26g2000prn.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SEXY GIRLS HOT VIDEOS AND MASTH KISS PHOTOS
Date: Tue, 5 Apr 2011 18:42:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
Message-ID: <4a8006e9-054d-4431-8a8e-bbf9008f8bb5@d26g2000prn.googlegroups.com>
NNTP-Posting-Host: 117.199.243.43
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1302054169 29694 127.0.0.1 (6 Apr 2011 01:42:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 6 Apr 2011 01:42:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d26g2000prn.googlegroups.com; posting-host=117.199.243.43;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4311
```

ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html

HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

for more hot videos

http://videosonblog.blogspot.com/2010/11/masala-videos.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

From 794010942501005891O
X-Google-Thread: fc2a5,247856b4a4aad4cc,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!r4g2000prm.googlegroups.com!not-for-
mail
From: cherry <sriteja678@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: girls sexy
Date: Tue, 5 Apr 2011 23:31:57 -0700 (PDT)
Organization: http://groups.google.com
Lines: 1
Message-ID: <944a12a3-dcff-428d-856d-a979ff86c199@r4g2000prm.googlegroups.com>
NNTP-Posting-Host: 115.109.153.39
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1302071517 24892 127.0.0.1 (6 Apr 2011 06:31:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 6 Apr 2011 06:31:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r4g2000prm.googlegroups.com; posting-host=115.109.153.39; posting-
account=Bl73DQoAAAAd7NApQT-LAvVTblp6AHhP
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.4)
 Gecko/20100611 Firefox/3.6.4,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4312

www.4ursingle.com



From -7103894110167049565
X-Google-Thread: fc2a5,b61fe915ba0e2c3,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!a17g2000yqn.googlegroups.com!not-for-
mail
From: varsha <varsha9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: hot actress
Date: Wed, 6 Apr 2011 07:38:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 20
Message-ID: <92a8a8ca-87e3-4f17-b76c-d7ff6c89616b@a17g2000yqn.googlegroups.com>
NNTP-Posting-Host: 117.199.243.70
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1302100726 20632 127.0.0.1 (6 Apr 2011 14:38:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 6 Apr 2011 14:38:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a17g2000yqn.googlegroups.com; posting-host=117.199.243.70;
posting-account=EqrRzAoAAAD3CJxGkAkSGvh74KkxB4YR
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
```

```
Xref: g2news1.google.com rec.radio.amateur.homebrew:4313

                           hot lipkiss
http://hotactressstoyou.blogspot.com/2011/04/lipkiss-2.html
               lipkiss in without dress
http://hotactressstoyou.blogspot.com/2011/04/lipkiss.html
                seepika padukone sexy back look
http://hotactressstoyou.blogspot.com/2011/04/deepika-padukone.html
                   sexy katrina kaif
http://hotactressstoyou.blogspot.com/2011/04/katrina-kaif.html
            beauty keerthi chawla
http://hotactressstoyou.blogspot.com/2011/04/keerthi-chawla.html
               saloni sexy photos
http://hotactressstoyou.blogspot.com/2011/04/saloni.html
             deeksha seth in a hot saree
http://hotactressstoyou.blogspot.com/2011/04/deeksha-seth.html
             asin hot wallpapers
http://hotactressstoyou.blogspot.com/2011/04/asin.html
            ramba in a red dress
http://hotactressstoyou.blogspot.com/2011/04/ramba.html
              sexy ilieana is in scert
http://hotactressstoyou.blogspot.com/2011/04/ileana.html


From 5283088770368592656
X-Google-Thread: 11480d,c16c04c5b70919f9,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,c16c04c5b70919f9,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c16c04c5b70919f9,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,c16c04c5b70919f9,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,c16c04c5b70919f9,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf6,domainid0,pu
blic,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news-out.readnews.com!transit3.readnews.com!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1299481501@panix.com>
Followup-To: poster
Date: 7 Apr 2011 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
```

Distribution: world
Expires: 10 May 2011 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1302156301@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1302156303 7308 166.84.1.2 (7 Apr 2011 06:05:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 7 Apr 2011 06:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news2.google.com rec.radio.amateur.antenna:22811 rec.radio.amateur.dx:996
rec.radio.amateur.equipment:2786 rec.radio.amateur.homebrew:4611
rec.radio.amateur.misc:6341 rec.radio.amateur.policy:33130 rec.radio.info:2321

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |
rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

```
From 3558029370023560607
X-Google-Thread: fc2a5,3bb700cc0ed49311,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f18g2000yqd.googlegroups.com!not-for-
mail
From: suma <satyamsivam9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ADULT SEX PHOTOS
Date: Thu, 7 Apr 2011 10:09:12 -0700 (PDT)
Organization: http://groups.google.com
Lines: 20
Message-ID: <c035a3d8-bcbf-4818-af4f-d1d973e9b3f8@f18g2000yqd.googlegroups.com>
NNTP-Posting-Host: 117.199.246.49
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1302196152 14486 127.0.0.1 (7 Apr 2011 17:09:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 7 Apr 2011 17:09:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f18g2000yqd.googlegroups.com; posting-host=117.199.246.49;
posting-account=xYWSigoAAADp0Q2VAMlANM4syM5q3uRr
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4612

                           hot lipkiss
http://hotactressstoyou.blogspot.com/2011/04/lipkiss-2.html
               lipkiss in without dress
http://hotactressstoyou.blogspot.com/2011/04/lipkiss.html
                seepika padukone sexy back look
http://hotactressstoyou.blogspot.com/2011/04/deepika-padukone.html
                   sexy katrina kaif
http://hotactressstoyou.blogspot.com/2011/04/katrina-kaif.html
            beauty keerthi chawla
http://hotactressstoyou.blogspot.com/2011/04/keerthi-chawla.html
               saloni sexy photos
```

```
http://hotactressstoyou.blogspot.com/2011/04/saloni.html
             deeksha seth in a hot saree
http://hotactressstoyou.blogspot.com/2011/04/deeksha-seth.html
             asin hot wallpapers
http://hotactressstoyou.blogspot.com/2011/04/asin.html
            ramba in a red dress
http://hotactressstoyou.blogspot.com/2011/04/ramba.html
              sexy ilieana is in scert
http://hotactressstoyou.blogspot.com/2011/04/ileana.html


From 8759964182156832159
X-Google-Thread: fc2a5,bb41bbc29fbd9748,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p16g2000yqb.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SEXY HOT VIDEOS AND MORE MASALA PHOTOS
Date: Thu, 7 Apr 2011 18:25:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
Message-ID: <03b3f3b4-bd38-4358-a9ac-785496ab735a@p16g2000yqb.googlegroups.com>
NNTP-Posting-Host: 117.199.240.18
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1302225951 28477 127.0.0.1 (8 Apr 2011 01:25:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 8 Apr 2011 01:25:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p16g2000yqb.googlegroups.com; posting-host=117.199.240.18;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4613


ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html




         hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
```

HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

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ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

```
From -2884418398485362l3
X-Google-Thread: 111d0a,b0d4704e0a4cb075,start
```

```
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,b0d4704e0a4cb075,start
X-Google-NewGroupId: yes
X-Google-Thread: fc8b1,b0d4704e0a4cb075,start
X-Google-NewGroupId: yes
X-Google-Thread: 113975,b0d4704e0a4cb075,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid84c4645802,gid241b302a50,gidda6537b9fb,gidaddc8bf063,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!postnews.google.com!a12g2000yqk.googlegroups.com!not-for-
mail
From: "bill.meara@gmail.com" <bill.meara@gmail.com>
Newsgroups:
sci.electronics.basics,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sc
i.astro.amateur
Subject: SolderSmoke Book on Kindle
Date: Mon, 11 Apr 2011 02:32:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 39
Message-ID: <6ade0f95-8f96-4f90-b8c8-566bd829a883@a12g2000yqk.googlegroups.com>
NNTP-Posting-Host: 74.96.90.125
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1302514342 3701 127.0.0.1 (11 Apr 2011 09:32:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 11 Apr 2011 09:32:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a12g2000yqk.googlegroups.com; posting-host=74.96.90.125; posting-
account=ePxsiwkAAACeKyenV1cL73nSaGPyDy3Q
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.16)
 Gecko/20110323 Ubuntu/9.10 (karmic) Firefox/3.6.16,gzip(gfe)
Xref: g2news1.google.com sci.electronics.basics:37120
rec.radio.amateur.homebrew:4317 rec.radio.amateur.boatanchors:4460
sci.astro.amateur:45175
```

Now on Kindle:
http://www.amazon.com/SolderSmoke-Adventures-Wireless-Electronics-ebook/dp/=
B004V9FIVW/ref=3Dsr_1_1?ie=3DUTF8&qid=3D1302513962&sr=3D8-1

SolderSmoke is the story of a secret, after-hours life in electronics.
Bill Meara started out as a normal kid, from a normal American town.
But around the age of 12 he got interested in electronics, and he has
never been the same.
To make matters worse, when he got older he became a diplomat. His
work has taken him to Panama, Honduras, El Salvador, the Spanish
Basque Country, the Dominican Republic, the Azores islands of
Portugal, London, and, most recently, Rome. In almost all of these
places his addiction to electronics caused him to seek out like-minded
radio fiends, to stay up late into the night working on strange
projects, and to build embarrassingly large antennas above innocent

foreign neighborhoods. SolderSmoke takes you into the basement workshops and electronics parts stores of these exotic foreign places, and lets you experience the life of an expatriate geek. If you are looking for restaurant or hotel recommendations, look elsewhere. But if you need to know where to get an RF choke re-wound in Santo Domingo, SolderSmoke is the book for you.

SolderSmoke is no ordinary memoir. It is a technical memoir. Each chapter contains descriptions of Bill=92s struggles to understand (really understand) radio-electronic theory. Why does P=3DIE? Do holes really flow through transistors? What is a radio wave? How does a frequency mixer produce sum and difference frequencies? If these are the kinds of questions that keep you up at night, this book is for you.

Finally, SolderSmoke is about brotherhood. International, cross-border brotherhood. Through the SolderSmoke podcast we have discovered that all around the world, in countries as different as Sudan and Switzerland, there are geeks just like us, guys with essentially the same story, guys who got interested in radio and electronics as teenagers, and who have stuck with it ever since. Our technical addiction gives us something in common, something that transcends national differences. And our electronics gives us the means to communicate. United by a common interest in radio, and drawn closer together by means of the internet, we form an =93International Brotherhood of Electronic Wizards.=94

```
From -2539841826687148310
X-Google-Thread: fc2a5,c213f1a48d8259ed,start
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed,start
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Cleaning out QEX magazines
Date: Tue, 12 Apr 2011 16:13:10 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3664
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3664
X-Antivirus: avast! (VPS 110412-0, 04/12/2011), Outbound message
X-Antivirus-Status: Clean
Message-ID: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
```

Organization: UseNetServer.com
Lines: 7
X-Trace: ac1e34da4bffdbd49c87219329
Xref: g2news1.google.com rec.radio.amateur.homebrew:4318
rec.radio.amateur.antenna:21073 rec.radio.shortwave:82763

I have a 22 lb box of QEX magazines from June 1982 to 1994.
About 140 issues. I don't know if they are all there but most are.
If anyone is interested in them, $10 plus shipping from 32405.
Email me if interested.
Mikek

From -4704375647913604784
X-Google-Thread: fc2a5,a5cb0adc1f0ed49f,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a19g2000prj.googlegroups.com!not-for-mail
From: bgfbfjgg ojdhdsd <uijsbhsbchsv@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT VIDEOS N SPECIAL SEXY PHOTOS
Date: Tue, 12 Apr 2011 22:03:52 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
Message-ID: <e1c90b5c-c550-4ea1-bf77-fb689ebb9882@a19g2000prj.googlegroups.com>
NNTP-Posting-Host: 117.199.249.23
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1302671032 29337 127.0.0.1 (13 Apr 2011 05:03:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 13 Apr 2011 05:03:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a19g2000prj.googlegroups.com; posting-host=117.199.249.23;
posting-account=VkOAtQoAAACEcOLC5-eHi1eJjZH4zy38
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4616

ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html

HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

for more hot videos

http://videosonblog.blogspot.com/2010/11/masala-videos.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

From 8155183147615210950
X-Google-Thread: 111d0a,b0d4704e0a4cb075
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,b0d4704e0a4cb075
X-Google-NewGroupId: yes
X-Google-Thread: fc8b1,b0d4704e0a4cb075
X-Google-NewGroupId: yes
X-Google-Thread: 113975,b0d4704e0a4cb075
X-Google-NewGroupId: yes
X-Google-Attributes:
gid84c4645802,gid241b302a50,gidda6537b9fb,gidaddc8bf063,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!novia!news-out.readnews.com!news-xxxfer.readnews.com!
news.misty.com!not-for-mail
From: "Geoffrey S. Mendelson" <gsm@mendelson.com>
Newsgroups:
sci.electronics.basics,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.astro.amateur
Subject: Re: SolderSmoke Book on Kindle
Date: Wed, 13 Apr 2011 08:59:03 +0000 (UTC)
Organization: MGT Consulting
Lines: 23
Message-ID: <slrniqape0.ghs.gsm@cable.mendelson.com>
References: <6ade0f95-8f96-4f90-b8c8-566bd829a883@a12g2000yqk.googlegroups.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 85.65.228.114.dynamic.barak-online.net
X-Trace: max.inside.misty.com 1302685143 14369 85.65.228.114 (13 Apr 2011 08:59:03 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Wed, 13 Apr 2011 08:59:03 +0000 (UTC)
User-Agent: slrn/pre1.0.0-11 (Linux)
Xref: g2news1.google.com sci.electronics.basics:37142
rec.radio.amateur.homebrew:4320 rec.radio.amateur.boatanchors:4464
sci.astro.amateur:45220

bill.meara@gmail.com wrote:
> Now on Kindle:
> http://www.amazon.com/SolderSmoke-Adventures-Wireless-Electronics-ebook/dp/B004V9FIVW/ref=sr_1_1?ie=UTF8&qid=1302513962&sr=8-1

It's should say FOR SALE. I still have to pay Amazon money for it, which
makes it a for sale ad, just like any other.

I've enjoyed your podcasts, and I might even want to read your book, but IHMO
adversting something on this group is a violation of the charter. If you want to
sell your book, you should post it on the forsale groups as forsale, not
as available on a noncommerical group.

Since I don't have an Amzon account, and I'm not about to spend $12 on it,
is not available for MY kindle.

Available would be more appropriate for a PDF file you could download for free.

Geoff.

--
Geoffrey S. Mendelson N3OWJ/4X1GM
Those who cannot remember the past are condemned to misquote it.

```
From -4443402407338684191
X-Google-Thread: 111d0a,b0d4704e0a4cb075
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,b0d4704e0a4cb075
X-Google-NewGroupId: yes
X-Google-Thread: fc8b1,b0d4704e0a4cb075
X-Google-NewGroupId: yes
X-Google-Thread: 113975,b0d4704e0a4cb075
X-Google-NewGroupId: yes
X-Google-Attributes:
gid84c4645802,gid241b302a50,gidda6537b9fb,gidaddc8bf063,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups:
sci.electronics.basics,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sc
i.astro.amateur
References: <6ade0f95-8f96-4f90-b8c8-566bd829a883@a12g2000yqk.googlegroups.com>
<slrniqape0.ghs.gsm@cable.mendelson.com>
Subject: Re: SolderSmoke Book on Kindle
Date: Wed, 13 Apr 2011 06:56:37 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3664
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3664
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 110412-1, 04/12/2011), Outbound message
X-Antivirus-Status: Clean
Message-ID: <d86f2$4da59088$18ec6dd7$4281@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 30
X-Trace: d86f24da59088bd49c87204281
Xref: g2news1.google.com sci.electronics.basics:37143
rec.radio.amateur.homebrew:4321 rec.radio.amateur.boatanchors:4465
sci.astro.amateur:45222
```

"Geoffrey S. Mendelson" <gsm@mendelson.com> wrote in message
news:slrniqape0.ghs.gsm@cable.mendelson.com...

```
> bill.meara@gmail.com wrote:
>> Now on Kindle:
>> http://www.amazon.com/SolderSmoke-Adventures-Wireless-Electronics-ebook/dp/
B004V9FIVW/ref=sr_1_1?ie=UTF8&qid=1302513962&sr=8-1
> It's should say FOR SALE. I still have to pay Amazon money for it, which
> makes it a for sale ad, just like any other.
>
> I've enjoyed your podcasts, and I might even want to read your book, but
> IHMO
> adversting something on this group is a violation of the charter. If you
> want to
> sell your book, you should post it on the forsale groups as forsale, not
> as available on a noncommerical group.
>
> Since I don't have an Amzon account, and I'm not about to spend  $12 on
> it,
> is not available for MY kindle.
>
> Available would be more appropriate for  a PDF file you could download for
> free.
>
> Geoff.
>

  I bought it about a year ago, it's a good read. Go buy the book!
                                               Mikek




From 6569701599510974083
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad!
news.dslextreme.com!not-for-mail
Date: Wed, 13 Apr 2011 06:14:00 -0700
From: dave <dave@dave.dave>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.15) Gecko/20110303
Thunderbird/3.1.9
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
In-Reply-To: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
```

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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 11
Message-ID: <4da5a161$0$12494$bd467cd0@news.dslextreme.com>
Organization: dslextreme.com
X-Complaints-To: abuse@dslextreme.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:4322
rec.radio.amateur.antenna:21075 rec.radio.shortwave:82803
```

On 04/12/2011 02:13 PM, amdx wrote:

```
> I have a 22 lb box of QEX magazines from June 1982 to 1994.
> About 140 issues. I don't know if they are all there but most are.
> If anyone is interested in them, $10 plus shipping from 32405.
>                     Email me if interested.
>                              Mikek
>
>
```

Not to pee on your Wheaties, but isn't QEX available online to ARRL
members? Great magazine. Way more meat than QST.

```
From 7511100369277515636
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid4baf9708d4,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!goblin2!goblin.stu.neva.ru!
feeder.erje.net!de-l.enfer-du-nord.net!feeder2.enfer-du-nord.net!cs.uu.nl!
news0.firedrake.org!not-for-mail
From: mikea <mikea@mikea.ath.cx>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
Date: Wed, 13 Apr 2011 08:16:55 -0500
Organization: Firedrake Synthesis
Lines: 20
Message-ID: <7bkg78-284.ln1@mikea.ath.cx>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: parhelion.firedrake.org 1302700683 7504 70.164.65.62 (13 Apr 2011
13:18:03 GMT)
X-Complaints-To: usenet@parhelion.firedrake.org
NNTP-Posting-Date: Wed, 13 Apr 2011 13:18:03 +0000 (UTC)
User-Agent: tin (SOAP 3; IBM 650)
X-Not-Approved: vqrrf@ivqrbgeba.dp.pn-vf-n-gebyy
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (FreeBSD/7.1-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:4620
rec.radio.amateur.antenna:22854 rec.radio.shortwave:89508
```

```
In rec.radio.amateur.homebrew dave <dave@dave.dave> wrote:
> On 04/12/2011 02:13 PM, amdx wrote:
>> I have a 22 lb box of QEX magazines from June 1982 to 1994.
>> About 140 issues. I don't know if they are all there but most are.
>> If anyone is interested in them, $10 plus shipping from 32405.
>>                    Email me if interested.
>>                             Mikek
>>
>>
>
> Not to pee on your Wheaties, but isn't QEX available online to ARRL
> members? Great magazine. Way more meat than QST.

The _indices_ are; the articles seem always to be unavailable for
reasons that don't make sense.

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin



From 2274200343288271778
X-Google-Thread: fc2a5,5ee34e7f2b0078ae,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!34g2000pru.googlegroups.com!not-for-
mail
From: BASS <dalermehandi9247@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT FOR TENAGERS
Date: Wed, 13 Apr 2011 09:49:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <89223e3e-0636-4c1d-a7a8-92b3b4fd9027@34g2000pru.googlegroups.com>
NNTP-Posting-Host: 117.199.244.159
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1302713349 6442 127.0.0.1 (13 Apr 2011 16:49:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 13 Apr 2011 16:49:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 34g2000pru.googlegroups.com; posting-host=117.199.244.159;
posting-account=ChMvegkAAADX5lcnTEWruk43MP3_cJY6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4324

    hot lipkiss
http://hotactressstoyou.blogspot.com/2011/04/lipkiss-2.html
               lipkiss in without dress
```

```
http://hotactressstoyou.blogspot.com/2011/04/lipkiss.html
                seepika padukone sexy back look
http://hotactressstoyou.blogspot.com/2011/04/deepika-padukone.html
                   sexy katrina kaif
http://hotactressstoyou.blogspot.com/2011/04/katrina-kaif.html
            beauty keerthi chawla
http://hotactressstoyou.blogspot.com/2011/04/keerthi-chawla.html
               saloni sexy photos
http://hotactressstoyou.blogspot.com/2011/04/saloni.html
             deeksha seth in a hot saree
http://hotactressstoyou.blogspot.com/2011/04/deeksha-seth.html
             asin hot wallpapers
http://hotactressstoyou.blogspot.com/2011/04/asin.html
            ramba in a red dress
http://hotactressstoyou.blogspot.com/2011/04/ramba.html
              sexy ilieana is in scert
http://hotactressstoyou.blogspot.com/2011/04/ileana.html
```

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From -7021192964718967950
X-Google-Thread: 111d0a,b0d4704e0a4cb075
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,b0d4704e0a4cb075
X-Google-NewGroupId: yes
X-Google-Thread: fc8b1,b0d4704e0a4cb075
X-Google-NewGroupId: yes
X-Google-Thread: 113975,b0d4704e0a4cb075
X-Google-NewGroupId: yes
X-Google-Attributes:
gid84c4645802,gid241b302a50,gidda6537b9fb,gidaddc8bf063,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-14.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups:
sci.electronics.basics,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sc
i.astro.amateur
References: <6ade0f95-8f96-4f90-b8c8-566bd829a883@a12g2000yqk.googlegroups.com>
<slrniqape0.ghs.gsm@cable.mendelson.com>
Subject: Re: SolderSmoke Book on Kindle
Lines: 22
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
```

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6090
Message-ID: <Xolpp.8095$885.2286@en-nntp-14.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Wed, 13 Apr 2011 10:51:49 -0700
Xref: g2news1.google.com sci.electronics.basics:37150 rec.radio.amateur.homebrew:4325 rec.radio.amateur.boatanchors:4467 sci.astro.amateur:45226

"Geoffrey S. Mendelson" <gsm@mendelson.com> wrote in message news:slrniqape0.ghs.gsm@cable.mendelson.com...
> bill.meara@gmail.com wrote:
>> Now on Kindle:
>> http://www.amazon.com/SolderSmoke-Adventures-Wireless-Electronics-ebook/dp/B004V9FIVW/ref=sr_1_1?ie=UTF8&qid=1302513962&sr=8-1
> It's should say FOR SALE. I still have to pay Amazon money for it, which
> makes it a for sale ad, just like any other.

I guess to me it's pretty evident that anyone specifically telling you something is available for the Kindle is looking to sell it, not give it away (...in which case they could likely just use a PDF).

> Since I don't have an Amzon account, and I'm not about to spend $12 on it,
> is not available for MY kindle.

You can read Kindle books on most smartphones, Android tablets, and Windows PCs/tablets as well. The DRM is definitely annoying, although for a "fun read" sort of book like this (as opposed to, e.g., a reference text) I could see putting up with it.

---Joel

From -4952196585941184630
X-Google-Thread: 111d0a,b0d4704e0a4cb075
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,b0d4704e0a4cb075
X-Google-NewGroupId: yes
X-Google-Thread: fc8b1,b0d4704e0a4cb075
X-Google-NewGroupId: yes
X-Google-Thread: 113975,b0d4704e0a4cb075
X-Google-NewGroupId: yes
X-Google-Attributes: gid84c4645802,gid241b302a50,gidda6537b9fb,gidaddc8bf063,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: "Geoffrey S. Mendelson" <gsm@mendelson.com>
Newsgroups: sci.electronics.basics,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sc

i.astro.amateur
Subject: Re: SolderSmoke Book on Kindle
Date: Wed, 13 Apr 2011 19:04:07 +0000 (UTC)
Organization: MGT Consulting
Lines: 28
Message-ID: <slrniqbsph.srq.gsm@cable.mendelson.com>
References: <6ade0f95-8f96-4f90-b8c8-566bd829a883@a12g2000yqk.googlegroups.com>
 <slrniqape0.ghs.gsm@cable.mendelson.com>
 <Xolpp.8095$885.2286@en-nntp-14.dc1.easynews.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 85.65.228.114.dynamic.barak-online.net
X-Trace: max.inside.misty.com 1302721447 29459 85.65.228.114 (13 Apr 2011 19:04:07 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Wed, 13 Apr 2011 19:04:07 +0000 (UTC)
User-Agent: slrn/pre1.0.0-11 (Linux)
Xref: g2news2.google.com sci.electronics.basics:40364 rec.radio.amateur.homebrew:4623 rec.radio.amateur.boatanchors:4824 sci.astro.amateur:47670

Joel Koltner wrote:
>
> I guess to me it's pretty evident that anyone specifically telling you
> something is available for the Kindle is looking to sell it, not give it away
> (...in which case they could likely just use a PDF).

It's not evident at all to me. After all, it was SPAMed to a bunch of newsgroups that don't allow sale postings.

As for Amazon, aren't there free books for the Kindle there?

>
> You can read Kindle books on most smartphones, Android tablets, and Windows
> PCs/tablets as well. The DRM is definitely annoying, although for a "fun
> read" sort of book like this (as opposed to, e.g., a reference text) I could
> see putting up with it.
>

Maybe he just wanted to use Amazon as the distributer, or had a friend in the Kindle publishing business?

Geoff.

--
Geoffrey S. Mendelson N3OWJ/4X1GM
Those who cannot remember the past are condemned to misquote it.

From 4802734725649138081
X-Google-Thread: 111d0a,b0d4704e0a4cb075
X-Google-NewGroupId: yes

X-Google-Thread: fc2a5,b0d4704e0a4cb075
X-Google-NewGroupId: yes
X-Google-Attributes: gid84c4645802,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-12.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups:
sci.electronics.basics,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.astro.amateur
References: <6ade0f95-8f96-4f90-b8c8-566bd829a883@a12g2000yqk.googlegroups.com>
<slrniqape0.ghs.gsm@cable.mendelson.com> <Xolpp.8095$885.2286@en-nntp-14.dc1.easynews.com> <slrniqbsph.srq.gsm@cable.mendelson.com>
Subject: Re: SolderSmoke Book on Kindle
Lines: 26
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.6090
Message-ID: <q_opp.22211$vb5.6357@en-nntp-12.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Wed, 13 Apr 2011 14:56:36 -0700
Xref: g2news2.google.com sci.electronics.basics:40365
rec.radio.amateur.homebrew:4624 rec.radio.amateur.boatanchors:4825
sci.astro.amateur:47673

"Geoffrey S. Mendelson" <gsm@mendelson.com> wrote in message
news:slrniqbsph.srq.gsm@cable.mendelson.com...
> After all, it was SPAMed to a bunch of
> newsgroups that don't allow sale postings.

Fair point, strictly speaking I would have to concur with you there, even if I do consider it a pretty minor transgression.

> As for Amazon, aren't there free books for the Kindle there?

Yes, it's just that usually no one bothers to advertise them much due to the lack of potential financial gain and all. :-) (And I also think the 100% free ones have to be physically downloaded via USB or WiFi to your PC -- you can't get them over Amazon's "whispernet," which is just the Sprint cell phone network where Amazon cut a deal with Sprint to deliver books in (near-) real time, the price of this delivery being bundled into the price of the book.)

> Maybe he just wanted to use Amazon as the distributer, or had a friend in
> the Kindle publishing business?

I figured that, like many hams, he was thinking he'd charge an inexpensive
price and use the proceeds to buy more radios and antennas and produce more
episodes of SolderSmoke. :-)

---Joel

```
From 5511243539236275919
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!feeder.erje.net!
eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
Date: Wed, 13 Apr 2011 18:12:47 -0500
Organization: A noiseless patient Spider
Lines: 24
Message-ID: <io5ala$6ps$1@dont-email.me>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Wed, 13 Apr 2011 23:12:42 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="UIT+niVQSv8LIdTphuwBlA";
     logging-data="6972"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18Waue4AJh3Sl96UeN994Aq"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.8) Gecko/
20050511 Mnenhy/0.7.2.0
In-Reply-To: <7bkg78-284.ln1@mikea.ath.cx>
X-Accept-Language: en-us
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 110413-1, 04/13/2011), Outbound message
Cancel-Lock: sha1:RD0n29UMAUA348NiMvdq4twUQR0=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4328
rec.radio.amateur.antenna:21079 rec.radio.shortwave:82847
```

mikea wrote:
> In rec.radio.amateur.homebrew dave <dave@dave.dave> wrote:
>

```
>>On 04/12/2011 02:13 PM, amdx wrote:
>>
>>>I have a 22 lb box of QEX magazines from June 1982 to 1994.
>>>About 140 issues. I don't know if they are all there but most are.
>>>If anyone is interested in them, $10 plus shipping from 32405.
>>>                   Email me if interested.
>>>                            Mikek
>>>
>>>
>>
>>Not to pee on your Wheaties, but isn't QEX available online to ARRL
>>members? Great magazine. Way more meat than QST.
>
>
> The _indices_ are; the articles seem always to be unavailable for
> reasons that don't make sense.
>
It makes sense if you realize ARRL is a publishing house and not much else.
Why would they give their products away.

Henry   WA0GOZ


From 5454881172018309569
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!feeder.news-
service.com!85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: John KD5YI <sophi.2@invalid.org>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
Date: Wed, 13 Apr 2011 19:18:14 -0500
Organization: A noiseless patient Spider
Lines: 47
Message-ID: <io5egg$i7c$1@dont-email.me>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 14 Apr 2011 00:18:24 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="R1JcZqQrnJVzF0KrDRtdjQ";
     logging-data="18668"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18rQmlWhFByLGBdW8Cwifuy"
```

User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.15) Gecko/20110303 Thunderbird/3.1.9
In-Reply-To: <7bkg78-284.ln1@mikea.ath.cx>
Cancel-Lock: sha1:WpG5PpSMSFD8cAkOQGMwts9RXVQ=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4626 rec.radio.amateur.antenna:22858 rec.radio.shortwave:89552

On 4/13/2011 8:16 AM, mikea wrote:
> In rec.radio.amateur.homebrew dave<dave@dave.dave> wrote:
>> On 04/12/2011 02:13 PM, amdx wrote:
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>>>   Email me if interested.
>>>   Mikek
>>>
>>>
>>
>> Not to pee on your Wheaties, but isn't QEX available online to ARRL
>> members? Great magazine. Way more meat than QST.
>
> The _indices_ are; the articles seem always to be unavailable for
> reasons that don't make sense.
>

From the ARRL Web site itself:

http://www.arrl.org/arrl-periodicals-archive-search

"About this database. This database contains an index of articles for QST from 1915 to the present, QEX from 1981 to the present, Ham Radio from 1968 to 1990 and NCJ from 1973 to the present. (Note: Beginning in 1998, each issue of QEX covers two months. This index shows the first month. For example, the index shows the January/February 1998 issue of QEX as Jan 1998 QEX.)"

So, the index covers anything for which I'd be interested. But I am more interested in obtaining past articles. Then there is this:

"QST Archive for Members Only - ARRL Members can access the QST magazine archive online, from December 1915 through December 2007."

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"ARRL Periodicals on CD-ROM - Recent volumes of QST magazine and back issues of QEX, NCJ and Ham Radio magazines are available on CD-ROM."

I guess this means that, if you want to get articles later than 2007, then you must buy the CD.

Thanks for spurring my research on this. Now I will re-evaluate the importance of remaining a member.

John

From -5679659424533887438
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx01.iad01.newshosting.com!
newshosting.com!post02.iad!news.dslextreme.com!not-for-mail
Date: Wed, 13 Apr 2011 17:24:18 -0700
From: dave <dave@dave.dave>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.15) Gecko/20110303
Thunderbird/3.1.9
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me>
In-Reply-To: <io5egg$i7c$1@dont-email.me>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 50
Message-ID: <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
Organization: dslextreme.com
X-Complaints-To: abuse@dslextreme.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:4627
rec.radio.amateur.antenna:22859 rec.radio.shortwave:89553

On 04/13/2011 05:18 PM, John KD5YI wrote:
> On 4/13/2011 8:16 AM, mikea wrote:
>> In rec.radio.amateur.homebrew dave<dave@dave.dave> wrote:
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>>>> Email me if interested.
>>>> Mikek
>>>>
>>>>
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```
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> then you must buy the CD.
>
> Thanks for spurring my research on this. Now I will re-evaluate the
> importance of remaining a member.
>
> John

I give them money to fight BPL. The rest is ad-supported gravy.


From -1471188095363825637
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!feeder.news-
service.com!85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: John KD5YI <sophi.2@invalid.org>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
```

```
Date: Wed, 13 Apr 2011 20:01:02 -0500
Organization: A noiseless patient Spider
Lines: 72
Message-ID: <io5h0n$d1t$1@dont-email.me>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 14 Apr 2011 01:01:11 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="R1JcZqQrnJVzF0KrDRtdjQ";
     logging-data="13373"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/KQoZmR5t5SQ8PYtkTq4V3"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
In-Reply-To: <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
Cancel-Lock: sha1:1Fb47vhhzFP6l8LV9NIM+TdxuUc=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4628
rec.radio.amateur.antenna:22860 rec.radio.shortwave:89554

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>>
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>> Thanks for spurring my research on this. Now I will re-evaluate the
>> importance of remaining a member.
>>
>> John
>
> I give them money to fight BPL. The rest is ad-supported gravy.

I kinda thought that was what I was doing by being a member.

I've been paying:

ARRL membership	$39
QEX for members	$24
Total	$63

If I drop my ARRL membership the cost would be:

ARRL membership	$00
QEX non-member	$36
Total	$36

Almost a 43% reduction in cost to get the cream of publications. Of
course, I'd be giving up QST. Somehow, that doesn't bother me too much.

John

```
From 7786705636989905062
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid4baf9708d4,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 13 Apr 2011 22:16:47 -0500
```

Date: Thu, 14 Apr 2011 03:16:45 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.15) Gecko/20110303 Thunderbird/3.1.9
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET> <4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx> <io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com> <io5h0n$d1t$1@dont-email.me>
In-Reply-To: <io5h0n$d1t$1@dont-email.me>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>
Lines: 38
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-sgQHWVVdXYukfq282q/05GSXPeRHGhU/uu3CiKPi0t0N0/Rq57TXthMZC5AlIozjZhp7unDI3diF0Ml!JGwZkUmUJBc0MSFGLoPRaq1bMM2oLZIsbCx3F3IxrXlGNLXzJH44bwb1ORTA27VbY3zb6pvx1AO2!K6RfEj4iSA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2679
Xref: g2news2.google.com rec.radio.amateur.homebrew:4629 rec.radio.amateur.antenna:22861 rec.radio.shortwave:89561

On 4-14-2011 01:01, John KD5YI wrote:

>
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>
> I've been paying:
>
> ARRL membership $39
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> ------
> Total $63
>
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>
> ARRL membership $00
> QEX non-member $36
> --------
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>
> Almost a 43% reduction in cost to get the cream of publications. Of
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>

> John

I re-joined ARRL a few years back after having let my membership lapse because of what I considered a lack of technical articles in QST. I was primarily a member to get QST. After my membership expired again, I got boatloads of mailings from ARRL, begging me to come back and even offering a choice of a book to get me to come back. I mailed back their letters with a hand written note saying I wasn't interested. They asked me why. I said QST isn't nearly technical enough for me anymore. They suggested I get QEX. So I made a "counter-offer"...I asked them to substitute QEX for QST. They basically laughed and said they couldn't do that. Seems it would have saved them some money as QEX only comes out 6 timers per year versus 12 for QST. So, now they get NO money from me...

N0EDV

```
From 8432020588590412216
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!w9g2000prg.googlegroups.com!not-for-
mail
From: arthrnyork@webtv.net
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
Date: Wed, 13 Apr 2011 20:28:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 54
Message-ID: <b145548d-095a-448d-92f7-892632079ddb@w9g2000prg.googlegroups.com>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com>
 <7bkg78-284.ln1@mikea.ath.cx> <io5egg$i7c$1@dont-email.me>
 <4da63e7e$0$12458$bd467cd0@news.dslextreme.com> <io5h0n$d1t$1@dont-email.me>
<Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>
NNTP-Posting-Host: 98.116.34.29
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1302751711 13558 127.0.0.1 (14 Apr 2011 03:28:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 14 Apr 2011 03:28:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w9g2000prg.googlegroups.com; posting-host=98.116.34.29; posting-
account=Su0C-AoAAAADrFSeN38vZXXgMlF0FJAS
```

```
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1; WOW64;
 Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
 3.0.30729; Media Center PC 6.0; HPDTDF; .NET4.0C; BRI/2;
BOIE9;ENUSBINGIP),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4333
rec.radio.amateur.antenna:21084 rec.radio.shortwave:82861

On Apr 13, 11:16=A0pm, Scott <acepilotREM...@bloomer.net> wrote:
> On 4-14-2011 01:01, John KD5YI wrote:
>
>
>
>
>
>
>
> > I kinda thought that was what I was doing by being a member.
>
> > I've been paying:
>
> > ARRL membership $39
> > QEX for members $24
> > ------
> > Total $63
>
> > If I drop my ARRL membership the cost would be:
>
> > ARRL membership $00
> > QEX non-member $36
> > --------
> > Total $36
>
> > Almost a 43% reduction in cost to get the cream of publications. Of
> > course, I'd be giving up QST. Somehow, that doesn't bother me too much.
>
> > John
>
> I re-joined ARRL a few years back after having let my membership lapse
> because of what I considered a lack of technical articles in QST. =A0I wa=
s
> primarily a member to get QST. =A0After my membership expired again, I go=
t
> boatloads of mailings from ARRL, begging me to come back and even
> offering a choice of a book to get me to come back. =A0I mailed back thei=
r
> letters with a hand written note saying I wasn't interested. =A0They aske=
d
> me why. =A0I said QST isn't nearly technical enough for me anymore. =A0Th=
ey
> suggested I get QEX. =A0So I made a "counter-offer"...I asked them to
> substitute QEX for QST. =A0They basically laughed and said they couldn't
> do that. =A0Seems it would have saved them some money as QEX only comes
```

> out 6 timers per year versus 12 for QST. =A0So, now they get NO money fro=
m
> me...
>
> N0EDV- Hide quoted text -
>
> - Show quoted text -

That's what libraries were invented for : long time ago . And free .

From 2042070379546218548
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
newshosting.com!news2.euro.net!feeder.news-service.com!85.214.198.2.MISMATCH!
eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Joe from Kokomo <joe@indy.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
Date: Thu, 14 Apr 2011 08:49:55 -0400
Organization: A noiseless patient Spider
Lines: 29
Message-ID: <io6qhj$efs$3@dont-email.me>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
<io5h0n$d1t$1@dont-email.me>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 14 Apr 2011 12:49:55 +0000 (UTC)
Injection-Info: mx01.eternal-september.org; posting-host="JDpQ0605zkBMrhoRC5f2ZQ";
     logging-data="14844"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/bIn/FTvgy08X6FJHLiGd5XumX/ctRMSg="
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
In-Reply-To: <io5h0n$d1t$1@dont-email.me>
Cancel-Lock: sha1:7sMpwLBTAjiWZI3GKSQ9vX9dCl4=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4631
rec.radio.amateur.antenna:22863 rec.radio.shortwave:89594

On 4/13/2011 9:01 PM, John KD5YI wrote:

> I've been paying:
>
> ARRL membership $39
> QEX for members $24
> ------
> Total $63
>
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>
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> QEX non-member $36
> --------
> Total $36
>
> Almost a 43% reduction in cost to get the cream of publications. Of
> course, I'd be giving up QST. Somehow, that doesn't bother me too much.
>
> John

I would respectfully suggest that you are missing the big picture. It's
not just the magazine(s).

Like them or not, the ARRL is the ONLY organization that supports ham
radio on a national level, going to bat for us before Congress and the FCC.

73,
Joe

From -2094850210132761510
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!feeder.news-service.com!85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Joe from Kokomo <joe@indy.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
Date: Thu, 14 Apr 2011 08:51:05 -0400
Organization: A noiseless patient Spider
Lines: 25
Message-ID: <io6qjp$efs$4@dont-email.me>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>

<io5h0n$d1t$1@dont-email.me> <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 14 Apr 2011 12:51:05 +0000 (UTC)
Injection-Info: mx01.eternal-september.org; posting-host="JDpQ0605zkBMrhoRC5f2ZQ";
logging-data="14844"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX18YQPg9UNI7hFFMzfmWSC005od+VEd/1l4="
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
In-Reply-To: <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>
Cancel-Lock: sha1:/i0dR9zt/eg90K6STWIpwYfcnLo=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4335
rec.radio.amateur.antenna:21086 rec.radio.shortwave:82893

On 4/13/2011 11:16 PM, Scott wrote:

> I re-joined ARRL a few years back after having let my membership lapse
> because of what I considered a lack of technical articles in QST. I was
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> timers per year versus 12 for QST. So, now they get NO money from me...
>
> N0EDV

I would respectfully suggest that you are missing the big picture. It's
not just the magazine(s).

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radio on a national level, going to bat for us before Congress and the FCC.

73,
Joe

From -3213144002194553509
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!

```
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: atec77 <atec77@hotmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
Date: Thu, 14 Apr 2011 23:22:19 +1000
Organization: A noiseless patient Spider
Lines: 33
Message-ID: <io6see$ide$3@dont-email.me>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
<io5h0n$d1t$1@dont-email.me> <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>
<io6qjp$efs$4@dont-email.me>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 14 Apr 2011 13:22:23 +0000 (UTC)
Injection-Info: mx01.eternal-september.org; posting-host="boEWUuaP+eHgRsXSv318Bg";
     logging-data="18862"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19pKGOcxYViJAu/HLfx8myi"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-GB; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
In-Reply-To: <io6qjp$efs$4@dont-email.me>
Cancel-Lock: sha1:P8dqRaBL6J97DraeOZVceL/NgIY=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4633
rec.radio.amateur.antenna:22865 rec.radio.shortwave:89597

On 14/04/2011 10:51 PM, Joe from Kokomo wrote:
> On 4/13/2011 11:16 PM, Scott wrote:
>
>> I re-joined ARRL a few years back after having let my membership lapse
>> because of what I considered a lack of technical articles in QST. I was
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>
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> radio on a national level, going to bat for us before Congress and the FCC.
>
> 73,
> Joe
>
Here in Au the number of members of the representative body (WIA) is
about 1/3 or less , having really bad representation which is expensive
is worse than having none at all

--
X-No-Archive: Yes




From 6175732432643063831
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad!
news.dslextreme.com!not-for-mail
Date: Thu, 14 Apr 2011 08:02:30 -0700
From: dave <dave@dave.dave>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.15) Gecko/20110303
Thunderbird/3.1.9
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
<io5h0n$d1t$1@dont-email.me>
In-Reply-To: <io5h0n$d1t$1@dont-email.me>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 29
Message-ID: <4da70c50$0$12450$bd467cd0@news.dslextreme.com>
Organization: dslextreme.com
X-Complaints-To: abuse@dslextreme.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:4337
rec.radio.amateur.antenna:21088 rec.radio.shortwave:82901

On 04/13/2011 06:01 PM, John KD5YI wrote:
> On 4/13/2011 7:24 PM, dave wrote:

>>
>> I give them money to fight BPL. The rest is ad-supported gravy.
>
> I kinda thought that was what I was doing by being a member.
```

```
>
> I've been paying:
>
> ARRL membership $39
> QEX for members $24
> ------
> Total $63
>
> If I drop my ARRL membership the cost would be:
>
> ARRL membership $00
> QEX non-member $36
> --------
> Total $36
>
> Almost a 43% reduction in cost to get the cream of publications. Of
> course, I'd be giving up QST. Somehow, that doesn't bother me too much.
>
> John
```

I like the little ads in back. It's interesting how they market some of those radios. It reminds me of Sansui stereos.

```
From -9239996693804847l5
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad!
post02.iad!news.dslextreme.com!not-for-mail
Date: Thu, 14 Apr 2011 08:05:29 -0700
From: dave <dave@dave.dave>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.15) Gecko/20110303
Thunderbird/3.1.9
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
<io5h0n$d1t$1@dont-email.me> <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>
In-Reply-To: <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 18
```

Message-ID: <4da70d03$0$12450$bd467cd0@news.dslextreme.com>
Organization: dslextreme.com
X-Complaints-To: abuse@dslextreme.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:4635
rec.radio.amateur.antenna:22867 rec.radio.shortwave:89605

On 04/13/2011 08:16 PM, Scott wrote:

>
> I re-joined ARRL a few years back after having let my membership lapse
> because of what I considered a lack of technical articles in QST. I was
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> suggested I get QEX. So I made a "counter-offer"...I asked them to
> substitute QEX for QST. They basically laughed and said they couldn't do
> that. Seems it would have saved them some money as QEX only comes out 6
> timers per year versus 12 for QST. So, now they get NO money from me...
>
> N0EDV

QST is about the ads. QEX appeals to people who are pretty immune to ads.

From 3037001975893166017
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: John KD5YI <sophi.2@invalid.org>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
Date: Thu, 14 Apr 2011 12:56:52 -0500
Organization: A noiseless patient Spider
Lines: 48
Message-ID: <io7chg$h3c$1@dont-email.me>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
<io5h0n$d1t$1@dont-email.me> <io6qhj$efs$3@dont-email.me>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed

```
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 14 Apr 2011 17:57:04 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="R1JcZqQrnJVzF0KrDRtdjQ";
     logging-data="17516"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/EHCe/27Yi/YE+19v2Qa9Y"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
In-Reply-To: <io6qhj$efs$3@dont-email.me>
Cancel-Lock: sha1:40eS/YHpsZSekWqCnL3xD+5oVy4=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4339
rec.radio.amateur.antenna:21090 rec.radio.shortwave:82919
```

On 4/14/2011 7:49 AM, Joe from Kokomo wrote:
> On 4/13/2011 9:01 PM, John KD5YI wrote:
>
>> I've been paying:
>>
>> ARRL membership $39
>> QEX for members $24
>> ------
>> Total $63
>>
>> If I drop my ARRL membership the cost would be:
>>
>> ARRL membership $00
>> QEX non-member $36
>> --------
>> Total $36
>>
>> Almost a 43% reduction in cost to get the cream of publications. Of
>> course, I'd be giving up QST. Somehow, that doesn't bother me too much.
>>
>> John
>
> I would respectfully suggest that you are missing the big picture. It's
> not just the magazine(s).

Well, maybe. I think that the big picture depends on the desires of the observer.

> Like them or not, the ARRL is the ONLY organization that supports ham
> radio on a national level, going to bat for us before Congress and the FCC.
>
> 73,
> Joe

It is not that I do not like the ARRL. I've been a member for many years.

But, just being a member doesn't pay for that support. Notice from the cost of membership shown on the ARRL site that only $8 per year is left over after paying for QST. I'd bet that that $8 barely pays them to maintain their records and Web site. What they apparently depend on for money to represent us in Washington is donations. Along with volunteers, perhaps.

So, does this mean that those of us who do not send in donations are
missing the big picture?

73,
John

From 6549273656001145016
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news4.google.com!
feeder2.cambriumusenet.nl!feeder3.cambriumusenet.nl!feed.tweaknews.nl!
193.201.147.87.MISMATCH!news.astraweb.com!border2.a.newsrouter.astraweb.com!
news.netcologne.de!newsfeed-hp3.netcologne.de!newsfeed101.telia.com!
starscream.dk.telia.net!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: John KD5YI <sophi.2@invalid.org>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
Date: Thu, 14 Apr 2011 13:05:24 -0500
Organization: A noiseless patient Spider
Lines: 60
Message-ID: <io7d1e$i4a$1@dont-email.me>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
<io5h0n$d1t$1@dont-email.me> <io6qhj$efs$3@dont-email.me> <io7chg$h3c$1@dont-
email.me>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 14 Apr 2011 18:05:34 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="R1JcZqQrnJVzF0KrDRtdjQ";
logging-data="18570"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX1/G4a/ONUpyAu2QRUvj/B9P"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
In-Reply-To: <io7chg$h3c$1@dont-email.me>
Cancel-Lock: sha1:YN666+UChq4iFAooXpa1FP9XiHI=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4340
rec.radio.amateur.antenna:21091 rec.radio.shortwave:82920

On 4/14/2011 12:56 PM, John KD5YI wrote:

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>>>
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>
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> maintain their records and Web site. What they apparently depend on for
> money to represent us in Washington is donations. Along with volunteers,
> perhaps.
>
> So, does this mean that those of us who do not send in donations are
> missing the big picture?
>
> 73,
> John

Well, I overlooked the revenue generated by ads in QST. It is probably
true that a greater membership means a greater magazine circulation
which means ads can garner more because they reach a greater audience.

I just wanted that on record to show I am not advocating discontinuing membership.

73,
John

```
From -257079395648949843
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 14 Apr 2011 17:18:05 -0500
Date: Thu, 14 Apr 2011 22:18:05 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
<io5h0n$d1t$1@dont-email.me> <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>
<io6qjp$efs$4@dont-email.me>
In-Reply-To: <io6qjp$efs$4@dont-email.me>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <1KadnQfnyKwD7zrQnZ2dnUVZ_jmdnZ2d@bright.net>
Lines: 32
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
rSZ31NqUBRHC9NYF4vlZ2bM4jF8+8SNgdKYLNkRgz83a7QcFwhgTCt+EoqZygoxARPgH7f5Ak6L+3TY!
F+DSsrnuf1n6pLmYLJN8nTJ5dgnPb5V6pXgzRMIkACpNjdR/LqqL7UUrz5AxxyytuSqnHJGC/Cle!
ooAvkJmO5A==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2855
Xref: g2news1.google.com rec.radio.amateur.homebrew:4341
rec.radio.amateur.antenna:21092 rec.radio.shortwave:82940
```

On 4-14-2011 12:51, Joe from Kokomo wrote:
> On 4/13/2011 11:16 PM, Scott wrote:
>
>> I re-joined ARRL a few years back after having let my membership lapse
>> because of what I considered a lack of technical articles in QST. I was
>> primarily a member to get QST. After my membership expired again, I got
>> boatloads of mailings from ARRL, begging me to come back and even
>> offering a choice of a book to get me to come back. I mailed back their
>> letters with a hand written note saying I wasn't interested. They asked
>> me why. I said QST isn't nearly technical enough for me anymore. They
>> suggested I get QEX. So I made a "counter-offer"...I asked them to
>> substitute QEX for QST. They basically laughed and said they couldn't do
>> that. Seems it would have saved them some money as QEX only comes out 6
>> timers per year versus 12 for QST. So, now they get NO money from me...
>>
>> N0EDV
>
> I would respectfully suggest that you are missing the big picture. It's
> not just the magazine(s).
>
> Like them or not, the ARRL is the ONLY organization that supports ham
> radio on a national level, going to bat for us before Congress and the FCC.
>
> 73,
> Joe
>

Yes, I understand that very well. However, they should have more money
to spend to fight for ham radio if they would let me substitute the 6
issues per year of QEX versus the 12 issues of QST.

N0EDV

```
From -4883652171391504200
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!indigo.octanews.net!news-1.mpls.iphouse.net.POSTED!not-for-mail
Date: Thu, 14 Apr 2011 20:47:03 -0500
From: tom <news4792@taring.org>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.15) Gecko/20110303 Thunderbird/3.1.9
MIME-Version: 1.0
Newsgroups:
```

rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
<io5h0n$d1t$1@dont-email.me> <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>
<io6qjp$efs$4@dont-email.me> <1KadnQfnyKwD7zrQnZ2dnUVZ_jmdnZ2d@bright.net>
In-Reply-To: <1KadnQfnyKwD7zrQnZ2dnUVZ_jmdnZ2d@bright.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 36
Message-ID: <4da7a394$0$6702$8046368a@newsreader.iphouse.net>
Organization: ipHouse - Welcome Home!
NNTP-Posting-Date: 14 Apr 2011 20:47:00 CDT
NNTP-Posting-Host: 1bee6d7c.newsreader.iphouse.net
X-Trace: DXC=i]F[5V9ckL?8ZX7hKNUY=>UU[C:R=]Mb:eHS>e[L>830f;?
dZIi=o=17NPdkIDho0=9J`n`=R1_m3jQ5=__OGAM<
X-Complaints-To: abuse@iphouse.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:4342
rec.radio.amateur.antenna:21094 rec.radio.shortwave:82946

On 4/14/2011 5:18 PM, Scott wrote:
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>>
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>>
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>> radio on a national level, going to bat for us before Congress and the
>> FCC.
>>
>> 73,
>> Joe
>>
>
> Yes, I understand that very well. However, they should have more money
> to spend to fight for ham radio if they would let me substitute the 6
> issues per year of QEX versus the 12 issues of QST.
>
> N0EDV

I'm basing this opinion on the ARRL budgets that were published in QST about 20 years ago. They currently (still) claim they are there for mainly 2 things, protecting our rights and privileges as operators and adding new operators through education and other methods. Unless they have gotten rid of all the bits they used to have that they didn't need, they are still spending between 2 and 5% of the money they collect on what's supposed to be the main goal.

Where does all the rest go? Read the budgets if they still make them available.

Charlatans then, are they now? I don't know. And don't care. They lost me.

tom
K0TAR

```
From -6683246790350180890
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!tudelft.nl!
txtfeed1.tudelft.nl!dedekind.zen.co.uk!zen.net.uk!hamilton.zen.co.uk!
reader02.news.zen.co.uk.POSTED!not-for-mail
From: Gaius <bin@127.0.0.1>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
Date: Fri, 15 Apr 2011 12:36:43 +0100
Message-ID: <MPG.28123e228b1078799896a2@news.zen.co.uk>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
<io5h0n$d1t$1@dont-email.me> <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>
<io6qjp$efs$4@dont-email.me> <1KadnQfnyKwD7zrQnZ2dnUVZ_jmdnZ2d@bright.net>
<4da7a394$0$6702$8046368a@newsreader.iphouse.net>
Organization: null
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
User-Agent: MicroPlanet-Gravity/3.0.4
Lines: 23
NNTP-Posting-Host: 978bd5fd.news.zen.co.uk
X-Trace:
DXC=o8l\f?]mQAmj^Jm2E4:Z\iYjZGX^207Pk`<MJMoM3PFm8UPL;5Cn`7a]elF0De_5EnnWbmh@=f<Za<
kY]:\9B?hm
X-Complaints-To: abuse@zen.co.uk
Xref: g2news1.google.com rec.radio.amateur.homebrew:4343
rec.radio.amateur.antenna:21097 rec.radio.shortwave:82975
```

In article <4da7a394$0$6702$8046368a@newsreader.iphouse.net>, news4792
@taring.org says...

>
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> mainly 2 things, protecting our rights and privileges as operators and
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> have gotten rid of all the bits they used to have that they didn't need,

> they are still spending between 2 and 5% of the money they collect on
> what's supposed to be the main goal.
>
> Where does all the rest go? Read the budgets if they still make them
> available.
>
> Charlatans then, are they now? I don't know. And don't care. They
> lost me.
>
> tom
> K0TAR

Pretty well identical with the UK situation. The RSGB have lost many, many members for these reasons - including me.

```
From -1698703681624618191
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid4baf9708d4,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: Joe from Kokomo <joe@indy.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
Date: Fri, 15 Apr 2011 08:27:27 -0400
Organization: A noiseless patient Spider
Lines: 49
Message-ID: <io9djf$7dc$2@dont-email.me>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
<io5h0n$d1t$1@dont-email.me> <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>
<io6qjp$efs$4@dont-email.me> <1KadnQfnyKwD7zrQnZ2dnUVZ_jmdnZ2d@bright.net>
<4da7a394$0$6702$8046368a@newsreader.iphouse.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Fri, 15 Apr 2011 12:27:27 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="JDpQ0605zkBMrhoRC5f2ZQ";
     logging-data="7596"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/uCQepY1Qunzak3TBghI0d6rN1apsWZvw="
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
In-Reply-To: <4da7a394$0$6702$8046368a@newsreader.iphouse.net>
Cancel-Lock: sha1:a9dZmHQeAXqAGYWGokCZt2J7jlg=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4641
```

rec.radio.amateur.antenna:22876 rec.radio.shortwave:89678

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>>> Joe
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>>
>> N0EDV

On 4/14/2011 9:47 PM, tom wrote:

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> available.
>
> Charlatans then, are they now? I don't know. And don't care. They lost me.
>
> tom
> K0TAR

tom, just my personal opinion, but too bad you left the ARRL and too bad
you don't care.

I don't know about your "2 to 5%" figure, but even if it is true, it's
exactly 2 to 5% more than any other organization is spending to go to
bat for ham radio...and IMHO, we NEED (and should support) a national
organization.

73,
Joe

From -6861422580941772191
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 15 Apr 2011 17:41:19 -0500
Date: Fri, 15 Apr 2011 22:41:18 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
<io5h0n$d1t$1@dont-email.me> <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>
<io6qjp$efs$4@dont-email.me> <1KadnQfnyKwD7zrQnZ2dnUVZ_jmdnZ2d@bright.net>
<4da7a394$0$6702$8046368a@newsreader.iphouse.net> <io9djf$7dc$2@dont-email.me>
In-Reply-To: <io9djf$7dc$2@dont-email.me>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <ZMWdnR3xrKgSVDXQnZ2dnUVZ_h-dnZ2d@bright.net>
Lines: 18
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-maJnxF+x0Hx3204+nN7DnCj2I3SburLXd+CFClt6xIycaWcMC8rtM2/
yXQtEyPNiMAIS0QjyQq8N2gk!Qa9+wLAux2QQ6Xp/AFZOuUgih5ZoKkfe0lx9O/
4l2kQCeLFNZ2PdtHwx3jzWRLMSXZ7z+hn8RWh8!BOVZAI1P9Q==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2205
Xref: g2news2.google.com rec.radio.amateur.homebrew:4642
rec.radio.amateur.antenna:22878 rec.radio.shortwave:89720

On 4-15-2011 12:27, Joe from Kokomo wrote:

>
> tom, just my personal opinion, but too bad you left the ARRL and too bad
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Why? If every ham just wrote to their elected officials (for the cost
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if not better than, if they got 1 letter or a personal visit from the
ARRL "lobbyist".

From 8162714092965759970
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!feeder.news-service.com!85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Joe from Kokomo <joe@indy.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
Date: Fri, 15 Apr 2011 20:31:31 -0400
Organization: A noiseless patient Spider
Lines: 29
Message-ID: <ioao14$bhn$3@dont-email.me>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
<io5h0n$d1t$1@dont-email.me> <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>
<io6qjp$efs$4@dont-email.me> <1KadnQfnyKwD7zrQnZ2dnUVZ_jmdnZ2d@bright.net>
<4da7a394$0$6702$8046368a@newsreader.iphouse.net> <io9djf$7dc$2@dont-email.me>
<ZMWdnR3xrKgSVDXQnZ2dnUVZ_h-dnZ2d@bright.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 16 Apr 2011 00:31:32 +0000 (UTC)
Injection-Info: mx01.eternal-september.org; posting-host="JDpQ0605zkBMrhoRC5f2ZQ";
     logging-data="11831"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/8YmtfuHsyer9pvuUPVbNNxb4HwilfCvQ="
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.15) Gecko/20110303 Thunderbird/3.1.9
In-Reply-To: <ZMWdnR3xrKgSVDXQnZ2dnUVZ_h-dnZ2d@bright.net>
Cancel-Lock: sha1:sEOfnjJEpQgr5vZJ6TSq513vjAA=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4643

rec.radio.amateur.antenna:22879 rec.radio.shortwave:89729

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On 4/15/2011 6:41 PM, Scott wrote:

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if "every ham just wrote". Extremely unlikely...and oh, if not the ARRL,
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write about?

Finally, it's quite naive to think that a national lobbying organization
is not helpful -- just look at how successful the NRA is.

From -9212465701823869965
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!de-l.enfer-du-nord.net!feeder1.enfer-du-nord.net!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
Date: Fri, 15 Apr 2011 20:40:21 -0400
Organization: A noiseless patient Spider
Lines: 42
Message-ID: <ioaoho$d8m$1@dont-email.me>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
<io5h0n$d1t$1@dont-email.me> <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>

```
<io6qjp$efs$4@dont-email.me> <1KadnQfnyKwD7zrQnZ2dnUVZ_jmdnZ2d@bright.net>
<4da7a394$0$6702$8046368a@newsreader.iphouse.net> <io9djf$7dc$2@dont-email.me>
<ZMWdnR3xrKgSVDXQnZ2dnUVZ_h-dnZ2d@bright.net> <ioao14$bhn$3@dont-email.me>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 16 Apr 2011 00:40:24 +0000 (UTC)
Injection-Info: mx01.eternal-september.org; posting-host="BymgdnD5gGDWMqwSYHyd4A";
     logging-data="13590"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18ny7VHGJMcCFHacl633ZFuUSKTAGSfEco="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.14) Gecko/20110223
Thunderbird/3.1.8
In-Reply-To: <ioao14$bhn$3@dont-email.me>
Cancel-Lock: sha1:JwbDYNKVVhK65fFWA5dApZk4q/E=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4347
rec.radio.amateur.antenna:21102 rec.radio.shortwave:83030

On 04/15/2011 08:31 PM, Joe from Kokomo wrote:
>
>> On 4-15-2011 12:27, Joe from Kokomo wrote:
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surprised if it wasn't also available on line).  Finally they have a
```

good line of excellent technical publications on radio and electronics technology.

Also they DO offer membership without QST, for additional members of a family. Maybe the price of that will give you an idea of what they think the membership itself is worth.

```
From -3318324179615302569
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
newsfeed.straub-nv.de!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: John KD5YI <sophi.2@invalid.org>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
Date: Fri, 15 Apr 2011 19:46:12 -0500
Organization: A noiseless patient Spider
Lines: 49
Message-ID: <ioaosv$cfp$1@dont-email.me>
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
<io5h0n$d1t$1@dont-email.me> <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>
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<4da7a394$0$6702$8046368a@newsreader.iphouse.net> <io9djf$7dc$2@dont-email.me>
<ZMWdnR3xrKgSVDXQnZ2dnUVZ_h-dnZ2d@bright.net> <ioao14$bhn$3@dont-email.me>
<ioaoho$d8m$1@dont-email.me>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 16 Apr 2011 00:46:24 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="R1JcZqQrnJVzF0KrDRtdjQ";
     logging-data="12793"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+qHxGI756/0/n9Y02Blv/q"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
In-Reply-To: <ioaoho$d8m$1@dont-email.me>
Cancel-Lock: sha1:1ouhwPnshosSq8rXXudZXKL7pMg=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4645
rec.radio.amateur.antenna:22881 rec.radio.shortwave:89733
```

On 4/15/2011 7:40 PM, Kenneth Scharf wrote:
> On 04/15/2011 08:31 PM, Joe from Kokomo wrote:

```
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> excellent technical publications on radio and electronics technology.
>
> Also they DO offer membership without QST, for additional members of a
> family. Maybe the price of that will give you an idea of what they think
> the membership itself is worth.

Yes, and the blind can get a membership without QST for $8, same as a
family member without QST. That was where I got my number from in
another post in this thread.

Again, I am not suggesting anyone give up their membership in the ARRL.


From 6496858106223009727
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
```

```
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!news-2.mpls.iphouse.net.POSTED!not-for-mail
Date: Fri, 15 Apr 2011 20:47:58 -0500
From: tom <news4792@taring.org>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
<io5h0n$d1t$1@dont-email.me> <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>
<io6qjp$efs$4@dont-email.me> <1KadnQfnyKwD7zrQnZ2dnUVZ_jmdnZ2d@bright.net>
<4da7a394$0$6702$8046368a@newsreader.iphouse.net> <io9djf$7dc$2@dont-email.me>
In-Reply-To: <io9djf$7dc$2@dont-email.me>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 29
Message-ID: <4da8f54b$0$87584$8046368a@newsreader.iphouse.net>
Organization: ipHouse - Welcome Home!
NNTP-Posting-Date: 15 Apr 2011 20:47:55 CDT
NNTP-Posting-Host: d1f6be72.newsreader.iphouse.net
X-Trace:
DXC=En0fDdg;B6nW24:]h7]O@eVn\Tj8`^BbkeHS>e[L>83`[M`OTKc3OIkWX@ab@3=d:`Zn2>YI<c?
Bn>SMRA[1V\9m
X-Complaints-To: abuse@iphouse.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:4646
rec.radio.amateur.antenna:22882 rec.radio.shortwave:89735
```

On 4/15/2011 7:27 AM, Joe from Kokomo wrote:

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> organization.
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The ARRL seems to have little to do with the most important part of getting new hams, licensing.

The National VEC page, http://www.ncvec.org, apparently doesn't even acknowledge the ARRL.

You have to search the site and get to Question Pool 3 to find the first hint of the ARRL, and it's an email address for WY1O, who seems quite dedicated and appears several more times. And he's all there is.

So much for making new hams.

tom
K0TAR

```
From 1887983713322868657
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border3.nntp.dca.giganews.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 15 Apr 2011 22:13:06 -0500
Date: Sat, 16 Apr 2011 03:13:06 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
<io5h0n$d1t$1@dont-email.me> <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>
<io6qjp$efs$4@dont-email.me> <1KadnQfnyKwD7zrQnZ2dnUVZ_jmdnZ2d@bright.net>
<4da7a394$0$6702$8046368a@newsreader.iphouse.net> <io9djf$7dc$2@dont-email.me>
<ZMWdnR3xrKgSVDXQnZ2dnUVZ_h-dnZ2d@bright.net> <ioao14$bhn$3@dont-email.me>
In-Reply-To: <ioao14$bhn$3@dont-email.me>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <ysSdne2O6ZHelDTQnZ2dnUVZ_gidnZ2d@bright.net>
Lines: 50
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
```

X-Trace: sv3-TeCDT+ekJ8wy/c/DLGT0MFxF35Em0mkoaJoBj8QO1HykEte7nKpjHy/uA6Q7PB/Bigzf/
p4TKmlCP13!j1+LAN8RhuDrs3b6/
RdFv2ghqs264yI0YgBGzmRlRSRVJK3Ue3nPDtab5OtYaY7lP8hUOSczL82k!xi/bjCr6Jg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 3947
Xref: g2news2.google.com rec.radio.amateur.homebrew:4647
rec.radio.amateur.antenna:22883 rec.radio.shortwave:89744

On 4-16-2011 00:31, Joe from Kokomo wrote:

> On 4/15/2011 6:41 PM, Scott wrote:
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>> Why? If every ham just wrote to their elected officials (for the cost of
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> if "every ham just wrote". Extremely unlikely...and oh, if not the ARRL,
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> write about?

Well, if hams won't take any initiative to write their Congressmen, then
they probably don't give two craps enough to really care if we lose
bandwidth. All proposed NPRMs are published in the Federal Register and
a simple search on their website for "FCC" will list them.
http://frwebgate.access.gpo.gov/cgi-bin/multidb.cgi

>
> Finally, it's quite naive to think that a national lobbying organization
> is not helpful -- just look at how successful the NRA is.

So, the ARRL is donating how much to political parties?

The NRA has donated a bit over $18 million from 1989-2010. They were
number 39 of the top 140 donors...
39 National Rifle Assn $18,209,746   17%(To Dems) 82% (To Repubs)
THAT'S probably why they are so successful. Money talks, BS Walks...

http://www.opensecrets.org/orgs/list.php

Didn't see the ARRL in the top 140. Searched and didn't find them on
the list at all. #140 donated about $4.7 million over the same period.

If the ARRL is so successful at lobbying, why did BPL go through even
though they begged members to send more money to fight against it and
lost the battle anyway? Remember when the 13cm band used to be
2300-2450 MHz? I do. Remember when the 1.25M band used to be 220-225
MHz. I do. Remember when a lot of foreign countries had no code
requirement for HF and we did? I do.

I'm not saying they aren't worth something, but why won't they give a guy a choice about which magazine he wants with his membership? Probably because QEX doesn't have so many ads as QST and they want the advertisers to get more bang for their buck (understandably, since they can charge more for ad space based on the number of magazine "subscribers")

```
From -7785727548883769835
X-Google-Thread: fc2a5,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: fcc6e,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Thread: 114aac,c213f1a48d8259ed
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid4baf9708d4,gid9e586c3d78,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 15 Apr 2011 22:21:08 -0500
Date: Sat, 16 Apr 2011 03:21:06 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.shortwave
Subject: Re: Cleaning out QEX magazines
References: <ac1e3$4da4bffd$18ec6dd7$19329@KNOLOGY.NET>
<4da5a161$0$12494$bd467cd0@news.dslextreme.com> <7bkg78-284.ln1@mikea.ath.cx>
<io5egg$i7c$1@dont-email.me> <4da63e7e$0$12458$bd467cd0@news.dslextreme.com>
<io5h0n$d1t$1@dont-email.me> <Vu2dnd5iHtCC-jvQnZ2dnUVZ_smdnZ2d@bright.net>
<io6qjp$efs$4@dont-email.me> <1KadnQfnyKwD7zrQnZ2dnUVZ_jmdnZ2d@bright.net>
<4da7a394$0$6702$8046368a@newsreader.iphouse.net> <io9djf$7dc$2@dont-email.me>
<ZMWdnR3xrKgSVDXQnZ2dnUVZ_h-dnZ2d@bright.net> <ioao14$bhn$3@dont-email.me>
<ioaoho$d8m$1@dont-email.me>
In-Reply-To: <ioaoho$d8m$1@dont-email.me>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <LKmdnQhDvKe5ljTQnZ2dnUVZ_tmdnZ2d@bright.net>
Lines: 31
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-2W2pDQQFyQeK8ne94d3/j2/
wuz3WS1UI6uAxAGzlNtalULrZf875LmD+EOit8wJp6E51hgSOTb0ZRCC!trc2x5cqJ+/
5qk0sD0CGQh0dsnsjRkhXJLf3Ue9CexMyopKnM14BLM5PIr6oes0xmhEbm4V7cx7a!c1ZXRZtXag==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

X-Postfilter: 1.3.40
X-Original-Bytes: 2941
Xref: g2news2.google.com rec.radio.amateur.homebrew:4648
rec.radio.amateur.antenna:22884 rec.radio.shortwave:89745

On 4-16-2011 00:40, Kenneth Scharf wrote:

> All of you are also forgetting that the ARRL (for better or worse) is
> now the 'back bone' of the system that handles testing for ham licenses.
> Without them it would be almost impossible to find where you can locally
> take the test to apply for or upgrade your ham ticket.

Don't forget W5YI as a VEC. That's who I'm affiliated with, although
I'm not active with any VEC at present. They list VEs by state, so you
can find a local examiner.
http://www.w5yi.org/exam_locations_ama.php

  The ARRL also
> publishes most of the test guide material (though I would be surprised
> if it wasn't also available on line). Finally they have a good line of
> excellent technical publications on radio and electronics technology.

Yes, so I would almost say they are more in the publishing business than
the lobbying business.

>
> Also they DO offer membership without QST, for additional members of a
> family. Maybe the price of that will give you an idea of what they think
> the membership itself is worth.

So, can I just pay for membership and skip QST?

I believe they are required by the IRS to set a "value" on membership if
they are a non-profit. They are a non-profit, aren't they?

From 322850911227787108
X-Google-Thread: fc2a5,b9aaa3b8c05a2184
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
94.75.214.39.MISMATCH!aioe.org!.POSTED!not-for-mail
From: "garyr" <garyr@fidalgo.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RTTY bandwidth
Date: Sat, 12 Mar 2011 10:52:16 -0800
Organization: Aioe.org NNTP Server
Lines: 43
Message-ID: <ilgfe6$ft5$1@speranza.aioe.org>
References: <ile30e$46k$1@speranza.aioe.org>

NNTP-Posting-Host: aK64+RPpApitbDY3ufTtVA.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
X-RFC2646: Format=Flowed; Original
X-Notice: Filtered by postfilter v. 0.8.2
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:4251

Thanks for all your replies. I should have explained the reason for my question. I've become interested in SID (Sudden Ionosphere Disturbance) monitoring: http://www.aavso.org/solar-sids
This basically involves monitoring the signal strength of various VLF stations that transmit a 50-baud RTTY signal. Knowing nothing about the spectrum of these signals I build a receiver that has a bandwidth of about 200 Hz and it works reasonably well on one station that transmits on 21.4 KHz. I would like to use it to also monitor a signal on 25.2 KHz.
However, I happen to live about 50 miles from a 500 KW station
that transmits on 24.8 KHz and that signal swamps everything within 600 to 800 Hz. So I thought a narrow bandwidth might be better and was about to start construction of one when I learned the nature of the transmissions so I thought I had better get some information on the actual bandwidths involved. Hence my query.

I would appreciate your comments regarding the design of my VLF rig: The antenna is a shielded, tuned loop www.febo.com/time-frerq/wwvb/antenna. The receiver is a direct-conversion type. I use a FST3125 quad FET bus switch as a mixer with the LO derived from a DDS source. The mixer output is amplified (60 dB) and fed to a 5-pole 120 Hz Butterworth LP which also provides about 27 dB of gain. The filter output is rectified and integrated (5.4 sec TC) and is the input to the ADC on a microprocessor (on a separate board) that collects and stores the data for later download to a PC. The construction is a mixture of through-hole and surface-mount parts on a two-sided PC board.
Is it possible that I have a shielding problem when tuned near the nearby station? Is it likely that I would have better results if my receiver was in a shielded enclosure?

Thanks in advance for your coments and advice.
Gary Richardson, AA7VM

"garyr" <garyr@fidalgo.net> wrote in message
news:ile30e$46k$1@speranza.aioe.org...
> Anyone know what the bandwidth of a 50 baud RTTY signal might be?
>

From -1501027526965769541
X-Google-Thread: fc2a5,ed0938c5046c3207
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 12 Mar 2011 13:36:46 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: FM Bandwidth
Newsgroups: rec.radio.amateur.homebrew
References: <b7WdneMQrN1qIubQnZ2dnUVZ7qWdnZ2d@bt.com>
User-Agent: Pan/0.133 (House of Butterflies)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <JNKdnUVr-sPSVubQnZ2dnUVZ_sGdnZ2d@web-ster.com>
Date: Sat, 12 Mar 2011 13:36:47 -0600
Lines: 15
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-jBQdx7XdyB/
Co+SOwaNkyjFnQKIXAcvrfcuVnNxNmHDAl1nQFTUOYGHl+3oMSnscUvsD+2iNl+06ml/!
S83KwzABK97gMDVEk83XMAsLqU8lqb7caYEYsnVbadztkPB5AkQaIWhn2IUQcCkEI3d/4cP1YJkT!
BsENw0q8MEYaHkU=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1571
Xref: g2news2.google.com rec.radio.amateur.homebrew:4549

On Sat, 12 Mar 2011 18:48:14 +0000, Howard James wrote:

> I'm building a 2 metre Rx with an IF of 10.7 MHz. It will be used for
> FM. I have three crystal filters with the following bandwidths: 15 KHz;
> +/- 6 KHz and +/- 3.75 KHz. Which one should I use? Thanks. Howard.

You mean 15kHz, 12kHz and 7.5kHz. You probably want 12kHz, unless your
channel spacing is really narrow.

FM bandwidth is calculated as 2 * (signal bandwidth + deviation), but for
the life of me I don't know what the deviation is supposed to be for
amateur narrow band FM!

--
http://www.wescottdesign.com

From 5065430070200223281
X-Google-Thread: fc2a5,ed0938c5046c3207

```
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 12 Mar 2011 14:21:01 -0600
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <b7WdneMQrN1qIubQnZ2dnUVZ7qWdnZ2d@bt.com> <JNKdnUVr-
sPSVubQnZ2dnUVZ_sGdnZ2d@web-ster.com>
Subject: Re: FM Bandwidth
Date: Sat, 12 Mar 2011 15:21:05 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <85SdnekGQZYwSObQnZ2dnUVZ_v2dnZ2d@earthlink.com>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.148.196.116
X-Trace: sv3-
nwRf8YXk764futuoyNlr7codApmDn7sWqwIuwUsjJXRq1mulDv+tH4Er76juMLbQtc4l5Q/OOMT0HVJ!
Q9WBhtPsbwqVyK1Mn/z+o4ZtmxCWCghmcpFGc9miC51LUY/u3iZbULQDzXz1sLZx9IX7Rmt0OZix!
BjmWSSJA8kNxMXJUMOMnQhf5z87Fgc5iy4pq8dX5
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2052
Xref: g2news1.google.com rec.radio.amateur.homebrew:4253
```

I would think the 15 KHz filter.   The amateur deviation is normally 5 KHz.
for VHF and above.   There is a push for going to 2.5 and closer spacing for
repeaters.

"Tim Wescott" <tim@seemywebsite.com> wrote in message
news:JNKdnUVr-sPSVubQnZ2dnUVZ_sGdnZ2d@web-ster.com...

```
> On Sat, 12 Mar 2011 18:48:14 +0000, Howard James wrote:
>
>> I'm building a 2 metre Rx with an IF of 10.7 MHz. It will be used for
>> FM. I have three crystal filters with the following bandwidths: 15 KHz;
>> +/- 6 KHz and +/- 3.75 KHz. Which one should I use? Thanks. Howard.
>
> You mean 15kHz, 12kHz and 7.5kHz.  You probably want 12kHz, unless your
> channel spacing is really narrow.
>
> FM bandwidth is calculated as 2 * (signal bandwidth + deviation), but for
> the life of me I don't know what the deviation is supposed to be for
> amateur narrow band FM!
>
```

```
> --
> http://www.wescottdesign.com




From -4991375432157407638
X-Google-Thread: fc2a5,b9aaa3b8c05a2184
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!fu-berlin.de!nntp.infostrada.it!
twister1.libero.it.POSTED!not-for-mail
From: Piero Soldi <piero.soldi@libero.it>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; it; rv:1.9.2.15) Gecko/
20110303 Thunderbird/3.1.9
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RTTY bandwidth
References: <ile30e$46k$1@speranza.aioe.org>
<nZWdnYlbe5uoBefQnZ2dnUVZ_qOdnZ2d@earthlink.com> <ilfco1$qco$1@speranza.aioe.org>
<Pine.LNX.4.64.1103121223270.28572@darkstar.example.net>
In-Reply-To: <Pine.LNX.4.64.1103121223270.28572@darkstar.example.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 110312-1, 12/03/2011), Outbound message
X-Antivirus-Status: Clean
Lines: 63
Message-ID: <7__ep.5824$%g.8488@twister1.libero.it>
Date: Sun, 13 Mar 2011 08:10:43 GMT
NNTP-Posting-Host: 151.40.24.166
X-Complaints-To: abuse@libero.it
X-Trace: twister1.libero.it 1300003843 151.40.24.166 (Sun, 13 Mar 2011 09:10:43
MET)
NNTP-Posting-Date: Sun, 13 Mar 2011 09:10:43 MET
Organization: [Infostrada]
Xref: g2news2.google.com rec.radio.amateur.homebrew:4551

Il 12/03/2011 18.25, Michael Black ha scritto:
> On Sat, 12 Mar 2011, Piero Soldi wrote:
>
>> "Ralph Mowery" <rmowery28146@earthlink.net> ha scritto nel messaggio
>> news:nZWdnYlbe5uoBefQnZ2dnUVZ_qOdnZ2d@earthlink.com...
>>> The bandwidth will depend on what shift is being used. Some of the more
>>> common shifts are 170,425, and 850 Hz.
>>>
>>> The actual bandwidth needed to receive them will be slightly larger.
>>> Something like 200 for the 170 Hz shift and 1200 for the 850 Hz shift.
>>> The transmitted bandwidth will be larger yet.
>>>
>>> It is similar to an FM signal, it theory it is infinite,but in
>>> practice it
>>> can be much less.
```

>>>
>>>
>>>
>>> "garyr" <garyr@fidalgo.net> wrote in message
>>> news:ile30e$46k$1@speranza.aioe.org...
>>>> Anyone know what the bandwidth of a 50 baud RTTY signal might be?
>>>>
>>>
>>>
>>
>> Consider also the group delay of receiving filter...
>> with narrow Butterworth or Chebyshev crystal filters, group delay is big,
>> distorting
>> RTTY , CW or other digital signals, and ultimate result is error in
>> decoding.
>>
>> So bandwidth need to be more than necessary. A Gaussian filter is
>> better for
>> group delay,
>> but is worse for steepness.
>>
>
> I figured the original question was the bandwidth the signal took,
> rather than the bandwidth of the receiver.
>
> I didn't think anyone went for a receiver filter to match the RTTY signal.
> Well maybe the hardcore RTTYers. But generally one used a reasonable
> filter in the receiver, and counted on the audio filters in the
> demodulator. There again, relative few decoded at the IF, but even then
> the articles I've seen didn't go for any special narrow filters for RTTY.
>
> Michael VE2BVW

Hi Michael,
i was an hardcore RTTYer a lot of years ago... :-)

I've used Teletype Corp (now IBM) TG7, Kleinschmidt TT100,
Olivetti T2, Siemens ??? and after, first attempts of software
decoders.

Yes, normally you use a CW filter to receive RTTY, ie: 500/600 Hz BW for
170 Hz shift so the group delay is not problematic if rf tones are
centered in passband of filter (stay away from edges).

Cheers,
  Piero I5SPO

From -8202822765132643184
X-Google-Thread: fc2a5,ed0938c5046c3207
X-Google-NewGroupId: yes

```
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!x8g2000prh.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FM Bandwidth
Date: Sun, 13 Mar 2011 03:55:58 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <b08b3c31-907d-4277-9bf2-f87e43e00788@x8g2000prh.googlegroups.com>
References: <b7WdneMQrN1qIubQnZ2dnUVZ7qWdnZ2d@bt.com>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1300013758 32531 127.0.0.1 (13 Mar 2011 10:55:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 13 Mar 2011 10:55:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x8g2000prh.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.17)
 Gecko/20110123 SeaMonkey/2.0.12,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4255

On Mar 12, 1:48=A0pm, "Howard James" <h.james.ja...@btinternet.com>
wrote:
> I'm building a 2 metre Rx with an IF of 10.7 MHz. It will be used for FM.=
 I
> have three crystal filters with the following bandwidths: 15 KHz; +/- 6 K=
Hz
> and +/- 3.75 KHz. Which one should I use?
> Thanks. Howard.

Hey OT:
In ITU region 1 you use +/- 3.75Khz. If you are across the pond then
use +/- 6Khz.
Since they spell metre that way across the pond I think you are going
to be using +/- 6Khz

73 OT
de n8zu


From -2735171447149419015
X-Google-Thread: fc2a5,786de03eca4c01fc,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!goblin3!gin-ad1-unet1.teleglobe.net!
goblin1!goblin2!goblin.stu.neva.ru!feeder.erje.net!xlned.com!feeder3.xlned.com!
```

feeder.news-service.com!ecngs!feeder.ecngs.de!Xl.tags.giganews.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!local2.nntp.ams.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 13 Mar 2011 12:07:47 -0500
From: vu2nan <vu2nan.7c2b098@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: My homebrew 2m FM rig
Date: Sun, 13 Mar 2011 12:38:09 +0000
Message-ID: <vu2nan.7c2b098@radiobanter.com>
Organization: RadioBanter.com
Lines: 13
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Fj5BAfnUvC4gakzGm96vW8wGnzbR8XolJbhwyHMsupzT/
b1kuMQBRMfmeJpalWH2ofbtAE2yw4Lr3uq!jGcz9vMU9KqRj/
q2z28y7gcIJS6MgV46uiG4pSD0z2KlNYJyI94+lT0ZKEwVctXu8du+rzfzkvKV!yG4w
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Lines: 7
X-Original-Bytes: 1008
Xref: g2news2.google.com rec.radio.amateur.homebrew:4553

Please check out at

http://nandustips.blogspot.com/2011/03/blog-post.html

73

Nandu.

--
vu2nan

From 5319180538289965882
X-Google-Thread: fc2a5,ed0938c5046c3207
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
post01.iad.highwinds-media.com!newsfe04.iad.POSTED!2c83443e!not-for-mail
From: disharp@swbell.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FM Bandwidth
Message-ID: <qfvpn6h97uii01flqcpcuaomoupbor3h3b@4ax.com>
References: <b7WdneMQrN1qIubQnZ2dnUVZ7qWdnZ2d@bt.com> <JNKdnUVr-

```
sPSVubQnZ2dnUVZ_sGdnZ2d@web-ster.com>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 20
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Sun, 13 Mar 2011 17:26:32 UTC
Organization: TeraNews.com
Date: Sun, 13 Mar 2011 13:26:18 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:4257

 Most 2 meter rigs start clipping around 5 KC.




On Sat, 12 Mar 2011 13:36:47 -0600, Tim Wescott <tim@seemywebsite.com>
wrote:

>On Sat, 12 Mar 2011 18:48:14 +0000, Howard James wrote:
>
>> I'm building a 2 metre Rx with an IF of 10.7 MHz. It will be used for
>> FM. I have three crystal filters with the following bandwidths: 15 KHz;
>> +/- 6 KHz and +/- 3.75 KHz. Which one should I use? Thanks. Howard.
>
>You mean 15kHz, 12kHz and 7.5kHz.  You probably want 12kHz, unless your
>channel spacing is really narrow.
>
>FM bandwidth is calculated as 2 * (signal bandwidth + deviation), but for
>the life of me I don't know what the deviation is supposed to be for
>amateur narrow band FM!


From -3421501582812792891
X-Google-Thread: fc2a5,786de03eca4c01fc
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 13 Mar 2011 14:33:55 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: My homebrew 2m FM rig
Newsgroups: rec.radio.amateur.homebrew
References: <vu2nan.7c2b098@radiobanter.com>
User-Agent: Pan/0.133 (House of Butterflies)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <jaCdnS42Yvm-geDQnZ2dnUVZ_h2dnZ2d@web-ster.com>
Date: Sun, 13 Mar 2011 14:33:55 -0500
```

Lines: 14
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
ieB2ousfDadeXIFRrAw3oAyqPcC2xHc9gs077w30eAO1nK1jRMAfn9Cpkg03PjL6AB0vhkIsMbrOiWJ!
xgTS0IRK/d/Efao376GfDy/wS9X1M6/mW/sBmHLzduOs63sTKzwopAnCCSj5hQbMVcXNXGl5AXx6!
wFWqGtnkgYp9FXo=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1461
Xref: g2news1.google.com rec.radio.amateur.homebrew:4258

On Sun, 13 Mar 2011 12:38:09 +0000, vu2nan wrote:

> Please check out at
>
> http://nandustips.blogspot.com/2011/03/blog-post.html

Excellent job. I'm particularly impressed by your willingness to grind
your own crystals. In the US and Europe we have it easy -- there are
custom crystal grinding companies that'll sell one-off crystals (but
they're spendy). I'm not sure if such things are available in your part
of the world or not.

--
http://www.wescottdesign.com

From -4959894716914798413
X-Google-Thread: fc2a5,786de03eca4c01fc
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!usenet.stanford.edu!
news.kjsl.com!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My homebrew 2m FM rig
Date: Sun, 13 Mar 2011 19:35:27 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 36
Sender: et472@72.0.192.110
Message-ID: <Pine.LNX.4.64.1103131929230.31135@darkstar.example.net>
References: <vu2nan.7c2b098@radiobanter.com> <jaCdnS42Yvm-
geDQnZ2dnUVZ_h2dnZ2d@web-ster.com>
NNTP-Posting-Host: 72.0.192.110
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1300059331 8799 72.0.192.110 (13 Mar 2011 23:35:31 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 13 Mar 2011 23:35:31 GMT
In-Reply-To: <jaCdnS42Yvm-geDQnZ2dnUVZ_h2dnZ2d@web-ster.com>

```
Xref: g2news2.google.com rec.radio.amateur.homebrew:4556
```

On Sun, 13 Mar 2011, Tim Wescott wrote:

> On Sun, 13 Mar 2011 12:38:09 +0000, vu2nan wrote:
>
>> Please check out at
>>
>> http://nandustips.blogspot.com/2011/03/blog-post.html
>
> Excellent job. I'm particularly impressed by your willingness to grind your own crystals. In the US and Europe we have it easy -- there are custom crystal grinding companies that'll sell one-off crystals (but they're spendy). I'm not sure if such things are available in your part of the world or not.
>

No, a lot of the crystal lattice filter building required grinding. They'd start with surplus FT-243 crystals, and unless they were really lucky (like the early ones down at 455KHz), they'd have to grind a bit. The mid-sixties ARRL sideband manual has an article or two about crystal grinding, for that reason. There was even one guy in Manila who had a series of direct conversion SSB transceivers (he was using them on fixed channels, so he just had filters on the channel) where he described opening up FC/6 holders to alter the frequency a tad.

One reason ladder filters became the mainstay for crystal filter building (well actually it took a while since they were described in Radcomm in the seventies, but it was about the mid-eighties before there was lots of activity in that area in North America, coinciding with the move back to superhet building rather than direct conversion receivers) was that since the crystals all had to be on the same frequency, no grinding was required. Just pick a frequency where you could get enough cheap crystals to pick out enough for the filter.

Maybe some people ordered custom crystals to make crystal-lattice filters, but they'd have been the exception.

    Michael VE2BVW

```
From -8552626298365224396
X-Google-Thread: fc2a5,cd7b81dcd6da728a,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!34g2000pru.googlegroups.com!not-for-mail
From: bgfbfjgg ojdhdsd <uijsbhsbchsv@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT SEXY VIDEOS CHECK IT FOR KISS PHOTOS
Date: Fri, 18 Mar 2011 06:37:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
```

Message-ID: <956b085a-6f4d-4925-9228-7d76124b6764@34g2000pru.googlegroups.com>
NNTP-Posting-Host: 117.199.249.119
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1300455470 7070 127.0.0.1 (18 Mar 2011 13:37:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 18 Mar 2011 13:37:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 34g2000pru.googlegroups.com; posting-host=117.199.249.119;
posting-account=VkOAtQoAAACEcOLC5-eHi1eJjZH4zy38
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.15)
Gecko/20110303 Firefox/3.6.15,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4558

ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

for more hot videos

http://videosonblog.blogspot.com/2010/11/masala-videos.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

```
From 685269971224615494
X-Google-Thread: fc2a5,ed0938c5046c3207
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!usenet-
fr.net!de-l.enfer-du-nord.net!feeder1.enfer-du-nord.net!
border1.nntp.ams2.giganews.com!border3.nntp.ams.giganews.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!local2.nntp.ams.giganews.com!
nntp.brightview.co.uk!news.brightview.co.uk.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 20 Mar 2011 11:30:58 -0500
From: "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <b7WdneMQrN1qIubQnZ2dnUVZ7qWdnZ2d@bt.com> <b08b3c31-907d-4277-9bf2-
f87e43e00788@x8g2000prh.googlegroups.com>
Subject: Re: FM Bandwidth
Date: Sun, 20 Mar 2011 16:31:00 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <zbSdnXmhsMRfthvQnZ2dnUVZ7o-dnZ2d@brightview.co.uk>
Lines: 13
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-ADlOt61vW+XWgEBCvkzX/DV7sn43CDbbB141KgfttzOq9biT/
```

TdLuN7RUOiljfZiXYjt0P6T0mcoYuI!
3eTis3+IkF6qkMd+32qX+LVBhUMS04REzQtPuI587R0JaU8ztt8Roh5cJ6HdiY7jwKmhxDaAXEMK!
R9iJHuMm5ec1xmFwEoxVFMtf
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1365
Xref: g2news1.google.com rec.radio.amateur.homebrew:4262

.... Since they spell metre that way across the pond I think you are going
to be using +/- 6Khz...

It depends on what kind of metre!

5kHz is the norm.

JOHN

From -802321892143731844
X-Google-Thread: fc2a5,ed0938c5046c3207
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!k7g2000yqj.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FM Bandwidth
Date: Mon, 21 Mar 2011 13:50:59 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <f221fa88-7f89-40c1-b408-f4c94489aa49@k7g2000yqj.googlegroups.com>
References: <b7WdneMQrN1qIubQnZ2dnUVZ7qWdnZ2d@bt.com> <b08b3c31-907d-4277-9bf2-f87e43e00788@x8g2000prh.googlegroups.com>
 <zbSdnXmhsMRfthvQnZ2dnUVZ7o-dnZ2d@brightview.co.uk>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1300740660 15820 127.0.0.1 (21 Mar 2011 20:51:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 21 Mar 2011 20:51:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k7g2000yqj.googlegroups.com; posting-host=99.65.160.151; posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0

X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.17)
 Gecko/20110123 SeaMonkey/2.0.12,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4263

On Mar 20, 12:31=A0pm, "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
wrote:
> .... Since they spell metre that way across the pond I think you are goin=
g
> to be using +/- 6Khz...
>
> It depends on what kind of metre!
>
> 5kHz is the norm.
>
> JOHN

Hey OM:
That may be so, maybe you should looky at a Kenwood TM261EJ, designed
for the European market, it has a 20Khz channel spacing on 2 metres, I
wonder why? Since 5Khz is the norm BW?

73 OT
de n8zu

From 6245817711846559455
X-Google-Thread: fc2a5,b9f258eca138a512,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder3.cambriumusenet.nl!
feeder2.cambriumusenet.nl!feed.tweaknews.nl!94.232.116.16.MISMATCH!
feeder.xsnews.nl!feed.xsnews.nl!border-3.ams.xsnews.nl!
border4.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!nntp.giganews.com!
eternal-september.org!feeder.eternal-september.org!news.eternal-
september.org!.POSTED!not-for-mail
From: davidmylastname@acm.org (David Griffith)
Newsgroups: rec.radio.amateur.homebrew
Subject: N to 3/8-24
Date: Mon, 21 Mar 2011 22:35:41 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 9
Message-ID: <im8jrt$cgm$1@frotz.eternal-september.org>
Injection-Date: Mon, 21 Mar 2011 22:35:41 +0000 (UTC)
Injection-Info: frotz.eternal-september.org; posting-host="+RNoMrqoPctoBz0p/
sE0Sg";
     logging-data="12822"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19F37NpAuL0kx4XaGFkN/Ac"
User-Agent: tin/1.9.6-20100522 ("Lochruan") (UNIX) (Linux/2.6.35-27-generic
(i686))
Cancel-Lock: sha1:R9TY453ogQHqNIceDeh2sMrpgEM=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4561

I'd like to modify an Arrow OSJ 146/440 to use an N connector instead of SO239. This would require an N-to-3/8"-24 stud. Allen Lowe hasn't heard of such a thing, which is why he doesn't offer that antenna with an N-connector. Does anyone here know if such a beast exists? What would it take to have some of these custom made?

--
David Griffith
davidmylastname@acm.org   <--- Put my last name where it belongs

From 1103858362971304574
X-Google-Thread: fc2a5,b9f258eca138a512
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!j35g2000prb.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: N to 3/8-24
Date: Mon, 21 Mar 2011 22:26:06 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <8aa9171a-6ded-43c8-ad60-f83ddd500958@j35g2000prb.googlegroups.com>
References: <im8jrt$cgm$1@frotz.eternal-september.org>
NNTP-Posting-Host: 50.46.189.195
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1300771566 14502 127.0.0.1 (22 Mar 2011 05:26:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 22 Mar 2011 05:26:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j35g2000prb.googlegroups.com; posting-host=50.46.189.195; posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.15) Gecko/20110303 Firefox/3.6.15,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4265

On Mar 21, 3:35=A0pm, davidmylastn...@acm.org (David Griffith) wrote:
> I'd like to modify an Arrow OSJ 146/440 to use an N connector instead of
> SO239. =A0This would require an N-to-3/8"-24 stud. =A0Allen Lowe hasn't
> heard of such a thing, which is why he doesn't offer that antenna with
> an N-connector. =A0Does anyone here know if such a beast exists? =A0What
> would it take to have some of these custom made?
>
> --
> David Griffith
> davidmylastn...@acm.org =A0 <--- Put my last name where it belongs

I'm a bit confused about what, exactly, you want... is it something

to go from an N connector "chassis mount" socket's center pin to a
3/8-24 stud? Or some sort of adapter to go between the N series
5/8"-24 thread and a 3/8"-24 thread? A picture would probably be
worth lots of words...

Cheers,
Tom

```
From 4304696762994690473
X-Google-Thread: fc2a5,b9f258eca138a512
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news2.google.com!goblin1!
goblin.stu.neva.ru!eternal-september.org!feeder.eternal-september.org!
news.eternal-september.org!.POSTED!not-for-mail
From: davidmylastname@acm.org (David Griffith)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: N to 3/8-24
Date: Tue, 22 Mar 2011 08:00:34 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 27
Message-ID: <im9kv2$1o5$1@frotz.eternal-september.org>
References: <im8jrt$cgm$1@frotz.eternal-september.org> <8aa9171a-6ded-43c8-ad60-
f83ddd500958@j35g2000prb.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
Injection-Date: Tue, 22 Mar 2011 08:00:34 +0000 (UTC)
Injection-Info: frotz.eternal-september.org; posting-host="+RNoMrqoPctoBz0p/
sE0Sg";
     logging-data="1797"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/BCdRQRg5fVNvFClpO7EGt"
User-Agent: tin/1.9.6-20100522 ("Lochruan") (UNIX) (Linux/2.6.35-27-generic
(i686))
Cancel-Lock: sha1:CQ1h45J5wxRmSm4O4WVRyBo7Hg0=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4266
```

K7ITM <k7itm@msn.com> wrote:
> On Mar 21, 3:35=A0pm, davidmylastn...@acm.org (David Griffith) wrote:
>> I'd like to modify an Arrow OSJ 146/440 to use an N connector instead =
of
>> SO239. =A0This would require an N-to-3/8"-24 stud. =A0Allen Lowe hasn'=
t
>> heard of such a thing, which is why he doesn't offer that antenna with
>> an N-connector. =A0Does anyone here know if such a beast exists? =A0Wh=
at
>> would it take to have some of these custom made?

> I'm a bit confused about what, exactly, you want... is it something
> to go from an N connector "chassis mount" socket's center pin to a
> 3/8-24 stud? Or some sort of adapter to go between the N series

```
> 5/8"-24 thread and a 3/8"-24 thread?  A picture would probably be
> worth lots of words...

See Ebay item number 380322578383.  This device connects the center=20
conductor of an SO239 to a 3/8"-24 bolt upon which a tall nut is=20
screwed.  To use it, you stick it up through a piece of metal (say, a=20
bracket), put an insulating washer on that, add the tall nut, then put a=20
whip adapter in the nut.  I want something like that for an N-connector.=20=
=20

--=20
David Griffith
davidmylastname@acm.org   <--- Put my last name where it belongs


From -8785862409902834088
X-Google-Thread: 241b302a50,b9f258eca138a512
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!feeder.news-
service.com!85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: david <none@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: N to 3/8-24
Date: Tue, 22 Mar 2011 09:59:16 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 27
Message-ID: <im9rtk$qkr$1@news.eternal-september.org>
References: <im8jrt$cgm$1@frotz.eternal-september.org>
     <8aa9171a-6ded-43c8-ad60-f83ddd500958@j35g2000prb.googlegroups.com>
     <im9kv2$1o5$1@frotz.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Injection-Date: Tue, 22 Mar 2011 09:59:16 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="j6YNSx4ZzkGtILp30gi9hg";
     logging-data="27291"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+q0lO4MB+WMJGeA/nZMw0Z"
Cancel-Lock: sha1:TS3XeJ9gz71giqfSbgO6+dcsMxY=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4564

On Tue, 22 Mar 2011 08:00:34 +0000, David Griffith rearranged some
electrons to say:

> K7ITM <k7itm@msn.com> wrote:
>> On Mar 21, 3:35 pm, davidmylastn...@acm.org (David Griffith) wrote:
>>> I'd like to modify an Arrow OSJ 146/440 to use an N connector instead
>>> of SO239.  This would require an N-to-3/8"-24 stud.  Allen Lowe hasn't
>>> heard of such a thing, which is why he doesn't offer that antenna with
>>> an N-connector.  Does anyone here know if such a beast exists?  What
>>> would it take to have some of these custom made?
```

```
>
>> I'm a bit confused about what, exactly, you want...  is it something to
>> go from an N connector "chassis mount" socket's center pin to a 3/8-24
>> stud?  Or some sort of adapter to go between the N series 5/8"-24
>> thread and a 3/8"-24 thread?  A picture would probably be worth lots of
>> words...
>
> See Ebay item number 380322578383.  This device connects the center
> conductor of an SO239 to a 3/8"-24 bolt upon which a tall nut is
> screwed.  To use it, you stick it up through a piece of metal (say, a
> bracket), put an insulating washer on that, add the tall nut, then put a
> whip adapter in the nut.  I want something like that for an N-connector.

Or just use something like this with the SO-239...

http://www.alliedelec.com/search/productdetail.aspx?SKU=2020635



From 2844337010073947252
X-Google-Thread: fc2a5,b9f258eca138a512
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!a11g2000pri.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: N to 3/8-24
Date: Tue, 22 Mar 2011 08:59:51 -0700 (PDT)
Organization: http://groups.google.com
Lines: 51
Message-ID: <b7e59c52-7b07-4b9f-bb8e-95eb62ad75d8@a11g2000pri.googlegroups.com>
References: <im8jrt$cgm$1@frotz.eternal-september.org> <8aa9171a-6ded-43c8-ad60-
f83ddd500958@j35g2000prb.googlegroups.com>
 <im9kv2$1o5$1@frotz.eternal-september.org>
NNTP-Posting-Host: 50.46.189.195
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1300809592 3613 127.0.0.1 (22 Mar 2011 15:59:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 22 Mar 2011 15:59:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a11g2000pri.googlegroups.com; posting-host=50.46.189.195; posting-
account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.15)
 Gecko/20110303 Firefox/3.6.15,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4268

On Mar 22, 1:00=A0am, davidmylastn...@acm.org (David Griffith) wrote:
> K7ITM <k7...@msn.com> wrote:
```

> > On Mar 21, 3:35=A0pm, davidmylastn...@acm.org (David Griffith) wrote:
> >> I'd like to modify an Arrow OSJ 146/440 to use an N connector instead =
of
> >> SO239. =A0This would require an N-to-3/8"-24 stud. =A0Allen Lowe hasn'=
t
> >> heard of such a thing, which is why he doesn't offer that antenna with
> >> an N-connector. =A0Does anyone here know if such a beast exists? =A0Wh=
at
> >> would it take to have some of these custom made?
> > I'm a bit confused about what, exactly, you want... =A0is it something
> > to go from an N connector "chassis mount" socket's center pin to a
> > 3/8-24 stud? =A0Or some sort of adapter to go between the N series
> > 5/8"-24 thread and a 3/8"-24 thread? =A0A picture would probably be
> > worth lots of words...
>
> See Ebay item number 380322578383. =A0This device connects the center
> conductor of an SO239 to a 3/8"-24 bolt upon which a tall nut is
> screwed. =A0To use it, you stick it up through a piece of metal (say, a
> bracket), put an insulating washer on that, add the tall nut, then put a
> whip adapter in the nut. =A0I want something like that for an N-connector=
. =A0
>
> --
> David Griffith
> davidmylastn...@acm.org =A0 <--- Put my last name where it belongs

Ah, OK...what the ebay picture looks like to me is an UHF socket whose
"rear" pin becomes a male 3/8-24, so a 3/8-24 coupling nut ("long
nut") can go over it to clamp the insulating washers to the bracket.
The problem I see with that is you couldn't just make a simple 3/8-24
stud and solder it to an N center pin, and expect it would hold up
very well with the tension on the solder joint. It would be pretty
trivial to make on a lathe I'd be happy to do it, but you probably
wouldn't like the price for one. They'd be cheap (relatively) if you
wanted 10,000 of them. ;-) Then you also need the insulating
washers--maybe you get those from the existing antenna? If what I
described in the first sentence is what you're looking for, check CB
stores for a 3/8-24 to 1/8" whip adapter...

Seems like a better mechanical arrangement would be to have the whip
attached securely to the mounting bracket, and the N connector also
securely attached to the mounting bracket, arranged to there's
relatively little strain on the center pin of the N connector...

If an SO239 to N adapter works, MPJA has them for about a third the
price of Allied... see MPJA # 0522-RC.

Cheers,
Tom

From -1528943954034176619
X-Google-Thread: fc2a5,b9f258eca138a512

X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!transit3.readnews.com!news-out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: "Geoffrey S. Mendelson" <gsm@mendelson.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: N to 3/8-24
Date: Tue, 22 Mar 2011 16:29:07 +0000 (UTC)
Organization: MGT Consulting
Lines: 46
Message-ID: <slrniohjbl.jq.gsm@cable.mendelson.com>
References: <im8jrt$cgm$1@frotz.eternal-september.org>
 <8aa9171a-6ded-43c8-ad60-f83ddd500958@j35g2000prb.googlegroups.com>
 <im9kv2$1o5$1@frotz.eternal-september.org>
 <b7e59c52-7b07-4b9f-bb8e-95eb62ad75d8@a11g2000pri.googlegroups.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 85.65.228.114.dynamic.barak-online.net
X-Trace: max.inside.misty.com 1300811347 14516 85.65.228.114 (22 Mar 2011 16:29:07 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Tue, 22 Mar 2011 16:29:07 +0000 (UTC)
User-Agent: slrn/pre1.0.0-11 (Linux)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4269

K7ITM wrote:

> Seems like a better mechanical arrangement would be to have the whip
> attached securely to the mounting bracket, and the N connector also
> securely attached to the mounting bracket, arranged to there's
> relatively little strain on the center pin of the N connector...

What seems to me that would work would be some variation on a U shaped bracket:

(pardon the ASCII art)

```
                II (antenna)

          -------------
          |    IIII   |
          |     II    |NNN
          |     L-----|NNN
        M |M          |NNN
        M |M          |
        M |M          |
          |           |
```

N is the N connector
M is the mounting bolt for the bracket.
If the wire is stranded, then there would be little or no stress on the center pin of the N connector.

Or if you want the wire out the bottom,

```
                II (antenna)
```

```
          _____________
          |    IIII
          |     II
         M|M    |
         M|M    |
          |    NNNNN
          _____NNNNN___
               NNNNN
               NNNNN
               NNNNN
```

73,

Geoff.

--
Geoffrey S. Mendelson N3OWJ/4X1GM
Those who cannot remember the past are condemned to misquote it.

```
From -8816857649407580671
X-Google-Thread: fc2a5,b9f258eca138a512
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!17g2000prr.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: N to 3/8-24
Date: Wed, 23 Mar 2011 02:20:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 78
Message-ID: <e63aa4ec-c710-4974-9ba0-410cfb7fb7e9@17g2000prr.googlegroups.com>
References: <im8jrt$cgm$1@frotz.eternal-september.org> <8aa9171a-6ded-43c8-ad60-
f83ddd500958@j35g2000prb.googlegroups.com>
 <im9kv2$1o5$1@frotz.eternal-september.org> <b7e59c52-7b07-4b9f-
bb8e-95eb62ad75d8@a11g2000pri.googlegroups.com>
 <slrniohjbl.jq.gsm@cable.mendelson.com>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1300872017 25086 127.0.0.1 (23 Mar 2011 09:20:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 23 Mar 2011 09:20:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 17g2000prr.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.17)
 Gecko/20110123 SeaMonkey/2.0.12,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4567
```

Hey OT:

Exactly what I would do almost.

Homebrew my own from a Type N bulkhead chassis mount connector as seen
here:
https://emersonconnectivity.com/OA_MEDIA/catalog/pdf_NConnectorBrochure.pdf

I'd solder a 3/8-24 by 2 inch SS stud onto the center pin.

I'd take a stick of JB weld putty type epoxy and make a form around
the N connector and stud

Thread on a Hex threaded SS or chrome 3/8-24 coupler

Viola' a Type N gumdrop mount.

73 OM
de
n8zu

On Mar 22, 12:29=A0pm, "Geoffrey S. Mendelson" <g...@mendelson.com>
wrote:

```
> K7ITM =A0wrote:
> > Seems like a better mechanical arrangement would be to have the whip
> > attached securely to the mounting bracket, and the N connector also
> > securely attached to the mounting bracket, arranged to there's
> > relatively little strain on the center pin of the N connector...
>
> What seems to me that would work would be some variation on a U shaped br=
acket:
>
> (pardon the ASCII art)
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 II (antenna)
> =A0 =A0 =A0 =A0 =A0 _____________
> =A0 =A0 =A0 =A0 =A0 | =A0 =A0IIII =A0 |
> =A0 =A0 =A0 =A0 =A0 | =A0 =A0 II =A0 =A0|NNN
> =A0 =A0 =A0 =A0 =A0 | =A0 =A0 L-----|NNN
> =A0 =A0 =A0 =A0 M |M =A0 =A0 =A0 =A0 =A0|NNN
> =A0 =A0 =A0 =A0 M |M =A0 =A0 =A0 =A0 =A0|
> =A0 =A0 =A0 =A0 M |M =A0 =A0 =A0 =A0 =A0|
> =A0 =A0 =A0 =A0 =A0 | =A0 =A0 =A0 =A0 =A0 |
>
> N is the N connector
> M is the mounting bolt for the bracket.
> If the wire is stranded, then there would be little or no stress on the c=
enter
> pin of the N connector.
>
> Or if you want the wire out the bottom,
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 II (antenna)
> =A0 =A0 =A0 =A0 =A0 _____________
> =A0 =A0 =A0 =A0 =A0 | =A0 =A0IIII =A0
> =A0 =A0 =A0 =A0 =A0 | =A0 =A0 II =A0 =A0
> =A0 =A0 =A0 =A0 =A0M|M =A0 =A0|
> =A0 =A0 =A0 =A0 =A0M|M =A0 =A0|
> =A0 =A0 =A0 =A0 =A0 | =A0 =A0NNNNN
> =A0 =A0 =A0 =A0 =A0 _____NNNNN___
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0NNNNN
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0NNNNN
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0NNNNN
>
> 73,
>
> Geoff.
>
> --
> Geoffrey S. Mendelson N3OWJ/4X1GM
> Those who cannot remember the past are condemned to misquote it.



From 3258994567724129220
X-Google-Thread: fc2a5,63b802f93ac9b56b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i35g2000prd.googlegroups.com!not-for-
mail
From: varsha <varsha9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 2011 HOT UPDATES
Date: Wed, 23 Mar 2011 03:46:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 12
Message-ID: <f1f3767c-43eb-4684-b15e-df98e9c7e0f3@i35g2000prd.googlegroups.com>
NNTP-Posting-Host: 117.199.240.196
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1300877209 13179 127.0.0.1 (23 Mar 2011 10:46:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 23 Mar 2011 10:46:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i35g2000prd.googlegroups.com; posting-host=117.199.240.196;
posting-account=EqrRzAoAAAD3CJxGkAkSGvh74KkxB4YR
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.15)
```

```
 Gecko/20110303 Firefox/3.6.15,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4271

      hot sexy videos
          http://sexy-rainsongs.blogspot.com/
                    hot keerthi chawla
http://sexy-rainsongs.blogspot.com/2011/03/keerthi-chawla.html
                       katrina kaif hot
http://sexy-rainsongs.blogspot.com/2011/03/katrina-kaif.html
                     sexy charmi
http://sexy-rainsongs.blogspot.com/2011/03/charmi.html
               hot deepika padukone
http://sexy-rainsongs.blogspot.com/2011/03/deepika-padukone.html
                   asin sexy videos
http://sexy-rainsongs.blogspot.com/2011/03/asin.html


From 4847911298511120205
X-Google-Thread: fc2a5,f039c438c4a39151,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i35g2000prd.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT BEST YOUTH VIDEOS
Date: Wed, 23 Mar 2011 21:23:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
Message-ID: <c1998095-d36b-4c90-a57e-1a80565bfdf8@i35g2000prd.googlegroups.com>
NNTP-Posting-Host: 117.199.247.205
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1300940585 10727 127.0.0.1 (24 Mar 2011 04:23:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 24 Mar 2011 04:23:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i35g2000prd.googlegroups.com; posting-host=117.199.247.205;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.15)
 Gecko/20110303 Firefox/3.6.15,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4569


ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html



         hot lip kiss
```

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
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tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

for more hot videos

http://videosonblog.blogspot.com/2010/11/masala-videos.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
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hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

From -6886133484849167123
X-Google-Thread: fc2a5,b9f258eca138a512
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!feeder.erje.net!eternal-september.org!feeder.eternal-september.org!news.eternal-september.org!.POSTED!not-for-mail
From: davidmylastname@acm.org (David Griffith)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: N to 3/8-24
Date: Thu, 24 Mar 2011 18:17:11 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 23
Message-ID: <img1r7$oth$1@frotz.eternal-september.org>
References: <im8jrt$cgm$1@frotz.eternal-september.org> <8aa9171a-6ded-43c8-ad60-f83ddd500958@j35g2000prb.googlegroups.com> <im9kv2$1o5$1@frotz.eternal-september.org> <b7e59c52-7b07-4b9f-bb8e-95eb62ad75d8@a11g2000pri.googlegroups.com> <slrniohjbl.jq.gsm@cable.mendelson.com> <e63aa4ec-c710-4974-9ba0-410cfb7fb7e9@17g2000prr.googlegroups.com>
Injection-Date: Thu, 24 Mar 2011 18:17:11 +0000 (UTC)
Injection-Info: frotz.eternal-september.org; posting-host="+RNoMrqoPctoBz0p/sE0Sg";
logging-data="25521"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX1/tz/XDwEwyFWt/i7bcp/HU"
User-Agent: tin/1.9.6-20100522 ("Lochruan") (UNIX) (Linux/2.6.35-27-generic (i686))
Cancel-Lock: sha1:MGgFZ4on1OOG3EsJr4LLaQczvBI=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4570

raypsi <rborowiak@gmail.com> wrote:
> Hey OT:

> Exactly what I would do almost.

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> here:
> https://emersonconnectivity.com/OA_MEDIA/catalog/pdf_NConnectorBrochure.pdf

> I'd solder a 3/8-24 by 2 inch SS stud onto the center pin.

> I'd take a stick of JB weld putty type epoxy and make a form around
> the N connector and stud

> Thread on a Hex threaded SS or chrome 3/8-24 coupler

> Viola' a Type N gumdrop mount.

I'm a bit concerned as to how strong such an arrangement would be.

```
--
David Griffith
davidmylastname@acm.org   <--- Put my last name where it belongs


From -6864940237868622135
X-Google-Thread: fc2a5,b9f258eca138a512
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!o20g2000yqk.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: N to 3/8-24
Date: Thu, 24 Mar 2011 13:09:27 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <ee5bfec3-501a-4507-a1af-3744645f9456@o20g2000yqk.googlegroups.com>
References: <im8jrt$cgm$1@frotz.eternal-september.org> <8aa9171a-6ded-43c8-ad60-
f83ddd500958@j35g2000prb.googlegroups.com>
 <im9kv2$1o5$1@frotz.eternal-september.org> <b7e59c52-7b07-4b9f-
bb8e-95eb62ad75d8@a11g2000pri.googlegroups.com>
 <slrniohjbl.jq.gsm@cable.mendelson.com> <e63aa4ec-
c710-4974-9ba0-410cfb7fb7e9@17g2000prr.googlegroups.com>
 <img1r7$oth$1@frotz.eternal-september.org>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1300997367 4995 127.0.0.1 (24 Mar 2011 20:09:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 24 Mar 2011 20:09:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o20g2000yqk.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1;
 Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
 3.0.30729; MAAU; .NET4.0C; MAAU),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4571

On Mar 24, 1:17=A0pm, davidmylastn...@acm.org (David Griffith) wrote:
> raypsi <rborow...@gmail.com> wrote:
> > Hey OT:
> > Exactly what I would do almost.
> > Homebrew my own from a Type N bulkhead chassis mount connector as seen
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> >https://emersonconnectivity.com/OA_MEDIA/catalog/pdf_NConnectorBrochu...
> > I'd solder a 3/8-24 by 2 inch SS stud onto the center pin.
> > I'd take a stick of JB weld putty type epoxy and make a form around
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```

> > Thread on a Hex threaded SS or chrome 3/8-24 coupler
> > Viola' a Type N gumdrop mount.
>
> I'm a bit concerned as to how strong such an arrangement would be.
>
> --
> David Griffith
> davidmylastn...@acm.org =A0 <--- Put my last name where it belongs

hey OT:

A 5/8 wave whip is sum like 57 inches in fiberglass, a gum drop mount
is pretty supstantial, my gum drop mount is like 3 inches in diameter
at the base, I used a uni multi step drill bit to cut the 3/4 inch
hole in the trunk of my Taurus. My whip was a 11 meter 1/4 wave
fiberglass whip I cut down to get 5/8 wave on 2 meters, and because
it's fiberglass makes it broadbanded from 144 to 148 Mhz like
1.2-1.1/1 across the band

73 OT
de n8zu

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Newsgroups: rec.radio.amateur.homebrew
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From: davidmylastname@acm.org (David Griffith)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: N to 3/8-24
Date: Fri, 25 Mar 2011 17:44:21 +0000 (UTC)
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User-Agent: tin/1.9.6-20100522 ("Lochruan") (UNIX) (Linux/2.6.35-27-generic
(i686))
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Xref: g2news2.google.com rec.radio.amateur.homebrew:4573
```

```
raypsi <rborowiak@gmail.com> wrote:
> On Mar 24, 1:17=A0pm, davidmylastn...@acm.org (David Griffith) wrote:
>> raypsi <rborow...@gmail.com> wrote:
>> > Hey OT:
>> > Exactly what I would do almost.
>> > Homebrew my own from a Type N bulkhead chassis mount connector as se=
en
>> > here:
>> >https://emersonconnectivity.com/OA_MEDIA/catalog/pdf_NConnectorBrochu=
...
>> > I'd solder a 3/8-24 by 2 inch SS stud onto the center pin.
>> > I'd take a stick of JB weld putty type epoxy and make a form around
>> > the N connector and stud
>> > Thread on a Hex threaded SS or chrome 3/8-24 coupler
>> > Viola' a Type N gumdrop mount.
>>
>> I'm a bit concerned as to how strong such an arrangement would be.

> hey OT:

> A 5/8 wave whip is sum like 57 inches in fiberglass, a gum drop mount
> is pretty supstantial, my gum drop mount is like 3 inches in diameter
> at the base, I used a uni multi step drill bit to cut the 3/4 inch
> hole in the trunk of my Taurus. My whip was a 11 meter 1/4 wave
> fiberglass whip I cut down to get 5/8 wave on 2 meters, and because
> it's fiberglass makes it broadbanded from 144 to 148 Mhz like
> 1.2-1.1/1 across the band

There isn't quite that much room on the base of an Arrow J-pole.=20=20

I'm wondering how much loss there would be if I simply add an SO239-to-N=20
converter and solder the threads together.

--=20
David Griffith
davidmylastname@acm.org   <--- Put my last name where it belongs


From -8505246239303429659
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From: BERGH <mattosbw1@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 4075 Solutions manual to Mechanics, Mechanical Engineering and
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Date: Fri, 25 Mar 2011 21:31:58 -0700 (PDT)
Organization: http://groups.google.com
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.0; es-ES; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16 ( .NET CLR 3.5.30729; .NET4.0C),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4574
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X-Google-Thread: fc2a5,b34660435db0f6eb,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet

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X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g10g2000yqj.googlegroups.com!not-for-
mail
From: Arthur Decker <marcdemoura@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 4075 Solutions manual and Test Banks to Electrical, Electronics and
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Date: Fri, 25 Mar 2011 22:20:06 -0700 (PDT)
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X-Google-Thread: fc2a5,7f86d9d49de82f11,start
X-Google-NewGroupId: yes
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Path: g2news1.google.com!postnews.google.com!d19g2000yql.googlegroups.com!not-for-
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X-Google-Thread: fc2a5,b20c47532923468,start

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X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
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From: Arthur Decker <marcdemoura@gmail.com>
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Solution manual Contemporary Logistics (9th Ed., Paul R. Murphy, Donald Wood)

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contact me to :   mattosbw1@gmail.com
mattosbw1(at)gmail.com

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From 8389861431238521394
X-Google-Thread: fc2a5,c4712855c98da18f,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
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Date: Fri, 25 Mar 2011 22:36:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
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NNTP-Posting-Date: Sat, 26 Mar 2011 05:36:04 +0000 (UTC)
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http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html




         hot lip kiss

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dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

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X-Google-NewGroupId: yes
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X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!l2g2000prg.googlegroups.com!not-for-mail
From: Andrew VK3BFA <VK3BFA@wia.org.au>
Newsgroups: rec.radio.amateur.homebrew
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Subject: Re: My homebrew 2m FM rig
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Lines: 23
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References: <vu2nan.7c2b098@radiobanter.com>
NNTP-Posting-Host: 218.215.169.109
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 26 Mar 2011 12:39:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l2g2000prg.googlegroups.com; posting-host=218.215.169.109;
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Xref: g2news2.google.com rec.radio.amateur.homebrew:4585

On Mar 13, 10:38=A0pm, vu2nan <vu2nan.7c2b...@radiobanter.com> wrote:
> Please check out at
>
> http://nandustips.blogspot.com/2011/03/blog-post.html
>
> 73
>
> Nandu.
>
> --
> vu2nan

Well done Sir, a nice piece of homebrewing. Indian hams have
traditionally held the task of keeping the old arts alive, the "using
what you can get" attitude, the scrounging, the recycling,  the
grinding of xtals with toothpaste because new ones? - forget it! -
building and testing with minimal tools and equipment, and producing
some nice radios. Now a Days, its called being "Green" <g>
I note that was in 1983 - synthesizer/dds stuff is now getting to the
recycled stage, even in very cheap domestic stuff - have you updated
the design, can you show us some more of your homebrew gear. Its nice.

73 de VK3BFA Andrew.


From -1611639517718586773
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X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!j9g2000prj.googlegroups.com!not-for-
mail
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From: claudeh <hclaudioblanco@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 4075 Solutions manual and Test banks to Materials Engineering Books
Date: Sat, 26 Mar 2011 15:39:41 -0700 (PDT)
Organization: http://groups.google.com
Lines: 183
Message-ID: <69a467f8-f60d-4990-af44-2bcac6958ffd@j9g2000prj.googlegroups.com>
NNTP-Posting-Host: 201.240.179.125
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Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1301179181 2115 127.0.0.1 (26 Mar 2011 22:39:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 26 Mar 2011 22:39:41 +0000 (UTC)
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Injection-Info: j9g2000prj.googlegroups.com; posting-host=201.240.179.125;
posting-account=mFFJOAoAAABaIQEBRX5f95y3rtsFRjms
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.0; es-ES; rv:1.9.2.16)
Gecko/20110319 Firefox/3.6.16 (.NET CLR 3.5.30729; .NET4.0C),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4289

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Solution manual Laminar Composites (George Staab)
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From 546734749673286561
X-Google-Thread: fc2a5,2ca02befc824a12c,start
X-Google-NewGroupId: yes
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Newsgroups: rec.radio.amateur.homebrew
Subject: Buy and sell boatanchor era stuff
From: Eugene Rippen <soundval@muchstuff.com>
Organization: Your Company
Message-ID: <Xns9EB4C40E6C590er7373@69.16.186.8>
User-Agent: Xnews/5.04.25
Lines: 43
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Date: Sun, 27 Mar 2011 02:16:23 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:4290

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On your list of places to buy and sell, for those who are not already on
it,
there is baswaplist@muchstuff.com.
baswaplist has existed about 12 years. In the beginning it was
baswaplist@foothill.net.
It exists only for buy, sell and swap.
It has always required prices for items offered for sale; unless it is
clearly not possible to come up with a market value.
This is a no BS list. No discussions, death notices. tornado warnings,
and
most despised, is an apology, particularly an apology for a message that
should not have been posted. The "Subject" of no message should begin
with
"Re:"
It is clearly my list. I have removed subscribers for what I may deem as
cause; but, I make no representations of keeping bad people off of the
list. I have never accepted payment for anyone being a subscriber, and
have
no plans to do so.
Any messages for administration of the list should go to
soundval@muchstuff.com or rippen@muchstuff.com.
I try not to overly butt into the dealings; however, for myself, I try
to
use PayPal as often as practical. That offers protection to both buyers
and
sellers.
What can be listed? All tube era gear, parts, paper items (books,
magazines, catalogs), Generally a posting should not be repeated other
than
once more in about a week. Postings of swap meets to come, may be posted
twice, but it may not list any unpriced items, unless it is really
impossible to find prices for an item.
.
To subscribe: Using your email address in your heading and the Subject:
"subscribe" (without quote marks)

send it to   baswaplist-request@muchstuff.com. No message necessary. No
human is going to read it.
To unsubscribe do the same except say "unsubscribe". See! No BS.

Gene Rippen, WB6SZS
Auburn, CA

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http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

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mail
From: SAILAJA  LOVES  U <samantha9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: IT`S  TOO HOT GURU
Date: Sat, 26 Mar 2011 23:54:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.10)
 Gecko/20100914 Firefox/3.6.10,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4292

                 hot katrina kaif wallpapers
http://cinyworld96.blogspot.com/2011/03/katrina-kaif.html
              deepika padukone new stills
http://cinyworld96.blogspot.com/2011/03/deepika-padukone.html
                beautiful aishwariya rai
http://cinyworld96.blogspot.com/2011/03/aishwariya-rai.html
                 diya mirza sexy photos
http://cinyworld96.blogspot.com/2011/03/diya-mirza.html
               stunning beauty sneha
http://cinyworld96.blogspot.com/2011/03/sneha.html
                unbelivable iliyana photos
http://cinyworld96.blogspot.com/2011/03/iliyana.html
              priyamani beautiful stills
http://cinyworld96.blogspot.com/2011/03/priyamani.html
               pranitha in half saree
http://cinyworld96.blogspot.com/2011/03/pranitha.html
              richa saree stills
http://cinyworld96.blogspot.com/2011/03/richa-gangopadyay.html


From -5900576832331811388
X-Google-Thread: fc2a5,e27c24260267878,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i14g2000yqe.googlegroups.com!not-for-
mail
From: cowboy67 <cowboy67111@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
```

Subject: Heathkit Jr Workshop 35 question
Date: Sun, 27 Mar 2011 18:18:33 -0700 (PDT)
Organization: http://groups.google.com
Lines: 10
Message-ID: <95b41449-92e3-4a8c-82a1-f2aeb9701edc@i14g2000yqe.googlegroups.com>
NNTP-Posting-Host: 74.227.244.17
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1301275113 2762 127.0.0.1 (28 Mar 2011 01:18:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 28 Mar 2011 01:18:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i14g2000yqe.googlegroups.com; posting-host=74.227.244.17; posting-account=W2-z3woAAAD1cH-TnRbpJSziAzZmPYjj
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1; WOW64;
 Trident/4.0; GTB6.6; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
 3.0.30729; Media Center PC 6.0),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4590

Howdy all,

I picked up a Heathkit Jr workshop 35 at an estate sale and would
like to find out how to operate it. It has 3 spring connections labled
SP3, Com and K3.

I have hooked up a 9V battery...+ to the SP3 and - to the com. what do
I hook up to K3? and am I supposed to get a tone?

Thanks in advance!

From 6351865097649750326
X-Google-Thread: fc2a5,ddbbcb3bebe448c7,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k10g2000prh.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT MASALA HOT VIDEOS SENSSINAL SEXY PHOTOS
Date: Sun, 27 Mar 2011 18:39:25 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
Message-ID: <33080f2c-b17c-4ea3-859b-9598b4e8fc4a@k10g2000prh.googlegroups.com>
NNTP-Posting-Host: 117.199.243.9
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1301276365 13875 127.0.0.1 (28 Mar 2011 01:39:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 28 Mar 2011 01:39:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com

Injection-Info: k10g2000prh.googlegroups.com; posting-host=117.199.243.9; posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16) Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4591

ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

for more hot videos

http://videosonblog.blogspot.com/2010/11/masala-videos.html

ALL INTERVIEW QUESTIONS

java interview questions

http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

```
From 1625763072044311259
X-Google-Thread: fc2a5,e27c24260267878
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe09.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.15pre) Gecko/20110207
Shredder/3.1.9pre
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit Jr Workshop 35 question
References: <95b41449-92e3-4a8c-82a1-f2aeb9701edc@i14g2000yqe.googlegroups.com>
In-Reply-To: <95b41449-92e3-4a8c-82a1-f2aeb9701edc@i14g2000yqe.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 15
Message-ID: <vQ8kp.6120$sj5.4492@newsfe09.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Mon, 28 Mar 2011 23:28:27 UTC
Organization: TeraNews.com
Date: Mon, 28 Mar 2011 18:28:27 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:4592

On 03/27/2011 08:18 PM, cowboy67 wrote:
> Howdy all,
>
>    I picked up a Heathkit Jr workshop 35 at an estate sale and would
> like to find out how to operate it. It has 3 spring connections labled
> SP3, Com and K3.
>
> I have hooked up a 9V battery...+ to the SP3 and - to the com. what do
```

> I hook up to K3? and am I supposed to get a tone?
>
> Thanks in advance!

You need to manual...\did it come with one?

```
From -6791745359015004819
X-Google-Thread: fc2a5,cddad5953b29a417,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y31g2000prd.googlegroups.com!not-for-
mail
From: sowmya <sowmya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: sex medicine & hot videos
Date: Mon, 28 Mar 2011 18:09:29 -0700 (PDT)
Organization: http://groups.google.com
Lines: 28
Message-ID: <ac3e732f-d063-4508-a142-9f8e680d8b93@y31g2000prd.googlegroups.com>
NNTP-Posting-Host: 117.199.241.50
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1301360970 28247 127.0.0.1 (29 Mar 2011 01:09:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 29 Mar 2011 01:09:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y31g2000prd.googlegroups.com; posting-host=117.199.241.50;
posting-account=GuIc0goAAABHuN9VJ4di0FQvlAtWov1J
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4593
```

```
                how to encourage women hot sex
  http://onlyforhealth-muni.blogspot.com/2011/03/medicine-for-women.html
               food list for pregnant womens
http://onlyforhealth-muni.blogspot.com/2011/03/pregnants-food-list.html
           hormone imbalance for men and women
http://onlyforhealth-muni.blogspot.com/2011/03/hormone-imbalance.html
           sex medicine for men
http://onlyforhealth-muni.blogspot.com/2011/03/sildenafil-citrate.html
           cure diseases only with water
http://onlyforhealth-muni.blogspot.com/2011/03/water-theraphy.html
             antibiotics and there uses
http://onlyforhealth-muni.blogspot.com/2010/12/antibiotics-introduction.html


   hot katrina kaif wallpapers
http://cinyworld96.blogspot.com/2011/03/katrina-kaif.html
```

```
              deepika padukone new stills
http://cinyworld96.blogspot.com/2011/03/deepika-padukone.html
                beautiful aishwariya rai
http://cinyworld96.blogspot.com/2011/03/aishwariya-rai.html
                 diya mirza sexy photos
http://cinyworld96.blogspot.com/2011/03/diya-mirza.html
               stunning beauty sneha
http://cinyworld96.blogspot.com/2011/03/sneha.html
                unbelivable iliyana photos
http://cinyworld96.blogspot.com/2011/03/iliyana.html
              priyamani beautiful stills
http://cinyworld96.blogspot.com/2011/03/priyamani.html


From -7389826239214520927
X-Google-Thread: fc2a5,d5b5334169e038aa,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w9g2000prg.googlegroups.com!not-for-
mail
From: suma <satyamsivam9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: JARA COOL HO JAA GURU
Date: Tue, 29 Mar 2011 09:24:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 28
Message-ID: <53b76e73-07fb-42ca-b0e9-ac1998119d23@w9g2000prg.googlegroups.com>
NNTP-Posting-Host: 117.199.249.202
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1301415979 29552 127.0.0.1 (29 Mar 2011 16:26:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 29 Mar 2011 16:26:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w9g2000prg.googlegroups.com; posting-host=117.199.249.202;
posting-account=xYWSigoAAADp0Q2VAMlANM4syM5q3uRr
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4297

                how to encourage women hot sex
  http://onlyforhealth-muni.blogspot.com/2011/03/medicine-for-women.html
               food list for pregnant womens
http://onlyforhealth-muni.blogspot.com/2011/03/pregnants-food-list.html
           hormone imbalance for men and women
http://onlyforhealth-muni.blogspot.com/2011/03/hormone-imbalance.html
           sex medicine for men
http://onlyforhealth-muni.blogspot.com/2011/03/sildenafil-citrate.html
           cure diseases only with water
http://onlyforhealth-muni.blogspot.com/2011/03/water-theraphy.html
             antibiotics and there uses
```

http://onlyforhealth-muni.blogspot.com/2010/12/antibiotics-introduction.html

hot katrina kaif wallpapers
http://cinyworld96.blogspot.com/2011/03/katrina-kaif.html
deepika padukone new stills
http://cinyworld96.blogspot.com/2011/03/deepika-padukone.html
beautiful aishwariya rai
http://cinyworld96.blogspot.com/2011/03/aishwariya-rai.html
diya mirza sexy photos
http://cinyworld96.blogspot.com/2011/03/diya-mirza.html
stunning beauty sneha
http://cinyworld96.blogspot.com/2011/03/sneha.html
unbelivable iliyana photos
http://cinyworld96.blogspot.com/2011/03/iliyana.html
priyamani beautiful stills
http://cinyworld96.blogspot.com/2011/03/priyamani.html

```
From -6682512359665796735
X-Google-Thread: fc2a5,e27c24260267878
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!bloom-beacon.mit.edu!ra.nrl.navy.mil!nntp.club.cc.cmu.edu!
feeder.erje.net!border3.nntp.ams.giganews.com!Xl.tags.giganews.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!local2.nntp.ams.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 30 Mar 2011 18:07:42 -0500
From: ImmubrernTesT <ImmubrernTesT.7d96e78@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit Jr Workshop 35 question
Date: Wed, 30 Mar 2011 20:55:50 +0000
Message-ID: <ImmubrernTesT.7d96e78@radiobanter.com>
Organization: RadioBanter.com
References:  <95b41449-92e3-4a8c-82a1-f2aeb9701edc@i14g2000yqe.googlegroups.com>
Lines: 11
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
Y2VeelS+dQlCGfT6ohWCcJDMI7qPjRfsALqgXjB8wAKjFjqyKYyVMSkLzFBfBGnecLcTeOJahIqGa1q!
dhUxpZtGImI6USwpqbYVC5oq5JYojnre9DVi65vvuHLYp1S8kwl8lyJtlqWd9mupjqYOwWRSx3W5!
0nj4RyCEx4aUEA==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 1
X-Original-Bytes: 1340
Xref: g2news2.google.com rec.radio.amateur.homebrew:4595
```

```
&#1089;&#1082;&#1072;&#1095;&#1072;&#1090;&#1100;
&#1089;&#1072;&#1091;&#1085;&#1076;&#1090;&#1088;&#1077;&#1082;
&#1090;&#1072;&#1082;&#1089;&#1080;;, adobe reader 8.0 rus
&#1089;&#1082;&#1072;&#1095;&#1072;&#1090;&#1100;, guitar college
&#1089;&#1082;&#1072;&#1095;&#1072;&#1090;&#1100;




--
ImmubrernTesT


From -4452854236629928711
X-Google-Thread: fc2a5,e32d8ad41ce40153,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!d26g2000prn.googlegroups.com!not-for-
mail
From: agarwal <rsoni215@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: hollywood celebrities
Date: Wed, 30 Mar 2011 23:16:43 -0700 (PDT)
Organization: http://groups.google.com
Lines: 1
Message-ID: <ae1f58c7-fad7-4b17-b508-0d8ad399934d@d26g2000prn.googlegroups.com>
NNTP-Posting-Host: 115.109.153.39
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1301552426 3691 127.0.0.1 (31 Mar 2011 06:20:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 31 Mar 2011 06:20:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d26g2000prn.googlegroups.com; posting-host=115.109.153.39;
posting-account=GNbiiQoAAABsO-Kq8gxpPhW-cvnXMxJW
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
 Gecko/20100401 Firefox/3.6.3,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4596

www.4ursingle.com


From -6266162574650674071
X-Google-Thread: fc2a5,7b75fa5dc75f9456,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f31g2000pri.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
```

```
Subject: HOT ACTRESES HOT VIDEOS DONT MISS YOUTH
Date: Thu, 31 Mar 2011 18:44:32 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
Message-ID: <bd9cb42c-e33c-4024-9fa8-8043612cd5bf@f31g2000pri.googlegroups.com>
NNTP-Posting-Host: 117.199.243.193
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1301622272 24485 127.0.0.1 (1 Apr 2011 01:44:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 1 Apr 2011 01:44:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f31g2000pri.googlegroups.com; posting-host=117.199.243.193;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.16)
 Gecko/20110319 Firefox/3.6.16,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4597


ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html




         hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

                     HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
```

http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

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ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

```
From -175558700715221724
X-Google-Thread: fcc6e,9344788875c75ae1,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,9344788875c75ae1,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,9344788875c75ae1,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,9344788875c75ae1,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,9344788875c75ae1,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,9344788875c75ae1,start
X-Google-NewGroupId: yes
X-Google-Thread: 10e8ad,9344788875c75ae1,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,9344788875c75ae1,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf
6,gid8f86f75953,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
```

news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!newshosting.com!198.186.194.249.MISMATCH!transit3.readnews.com!news-out.readnews.com!transit4.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1298962801@panix.com>
Followup-To: poster
Date: 1 Apr 2011 02:00:03 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 04 May 2011 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1301637601@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com (rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1301637604 18526 166.84.1.2 (1 Apr 2011 06:00:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 1 Apr 2011 06:00:04 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
Xref: g2news2.google.com rec.radio.amateur.antenna:22735 rec.radio.amateur.dx:986 rec.radio.amateur.equipment:2782 rec.radio.amateur.homebrew:4598 rec.radio.amateur.misc:6309 rec.radio.amateur.policy:33059 rec.radio.amateur.space:500 rec.radio.info:2305

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From -2216264773729900511
X-Google-Thread: fc2a5,c813ee8fb2a61db5
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
newshosting.com!216.196.98.144.MISMATCH!border3.nntp.dca.giganews.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 24 Dec 2010 09:27:32 -0600
Date: Fri, 24 Dec 2010 09:28:13 -0600
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.13) Gecko/
20101207 Thunderbird/3.1.7
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Negative Dynamic Resistance circuit collection
References: <c4ef71e8-3bbb-49d9-b01d-bebf1eb6c77c@35g2000prb.googlegroups.com>
In-Reply-To: <c4ef71e8-3bbb-49d9-b01d-bebf1eb6c77c@35g2000prb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <6rudnQZ6V_p5JonQnZ2dnUVZ5jidnZ2d@giganews.com>
```

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Lines: 23
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-o8BIot0sdpMfcUyId8M+ggK0z4gSOaaVkroVOTE/
3pNauqcyuqJVXunPLgoHsnYxkdDiXNRBgwlxbza!
OcTvXTc3zAo+A1DQYdsljRRbZWnS1FErhPQmo2c5+9iXNdU2Ki0K2FXt5eUsop4TeCgIXV+H
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2258
Xref: g2news2.google.com rec.radio.amateur.homebrew:4327
```

On 12/20/2010 7:11 PM, Lemon Tree wrote:

> I have posted a Negative Dynamic Resistance circuit collection along
> with some other things here:
> http://code.google.com/p/lemontree/downloads/list
> I am no Alan Yates however maybe you will find some things of
> interest.
> Sean O'Connor

OK Hopping back on topic.   I recall that there are stiff materials - like steel compared to aluminum,and stiff structures - like an aluminum tube compared with a steel strip of the same weight per length.

In the same way, you have brought up negative resistance structures of several designs, and I thought you were going to mention objects that have a naturally -ve resistance region. And you did at one point.

I recall seeing on the net, some mention of an experimenter who scorched some galvanized sheet and found that a point contract placed on it could resonate a tuned circuit with its negative resistance.

Gotta love those folks.

Brian W

```
From -7995332018602004509
X-Google-Thread: fc2a5,f8c0f36c8f254dd,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!r40g2000prh.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT VIDEOS N SPECIAL SEXY PHOTOS
Date: Sat, 25 Dec 2010 02:12:51 -0800 (PST)
Organization: http://groups.google.com
Lines: 38
Message-ID: <c505cade-7fd7-45c8-9183-5cd77bc137d9@r40g2000prh.googlegroups.com>
```

```
NNTP-Posting-Host: 117.199.243.181
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1293271971 16695 127.0.0.1 (25 Dec 2010 10:12:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 25 Dec 2010 10:12:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r40g2000prh.googlegroups.com; posting-host=117.199.243.181;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.13)
 Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4031
```

for hot videos
http://verysexyhotvideos.blogspot.com/

hot lip kiss videos
http://allvideosforyouth.blogspot.com/2010/08/hot-lip-kiss-videos.html

super hot lip kiss
http://allvideosforyouth.blogspot.com/2010/08/super-hot-lip-kiss.html

jobs
http://alljobsaywhere.blogspot.com/

games

GAME 1
http://freeonlingamesplay.blogspot.com/2010/08/game-1.html
GAME 2
http://freeonlingamesplay.blogspot.com/2010/08/game-2.html

mobile

mobile games free download
http://mobileallinforation.blogspot.com/2010/08/mobile-games-free-download.html

mobile ringtones free download
http://mobileallinforation.blogspot.com/2010/08/mobile-ringtones-free-download.html

```
From -3144844936272683111
X-Google-Thread: fc2a5,c813ee8fb2a61db5
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!l32g2000yqc.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Negative Dynamic Resistance circuit collection
Date: Sat, 25 Dec 2010 07:25:03 -0800 (PST)
Organization: http://groups.google.com
Lines: 36
Message-ID: <cdd7bfa1-1863-474e-9336-7e2686aef6ba@l32g2000yqc.googlegroups.com>
References: <c4ef71e8-3bbb-49d9-b01d-bebf1eb6c77c@35g2000prb.googlegroups.com>
<6rudnQZ6V_p5JonQnZ2dnUVZ5jidnZ2d@giganews.com>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1293290703 22946 127.0.0.1 (25 Dec 2010 15:25:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 25 Dec 2010 15:25:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l32g2000yqc.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.1.15)
 Gecko/20101027 SeaMonkey/2.0.10,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4032

On Dec 24, 10:28=A0am, brian whatcott <betw...@sbcglobal.net> wrote:
> On 12/20/2010 7:11 PM, Lemon Tree wrote:
>
> > I have posted a Negative Dynamic Resistance circuit collection along
> > with some other things here:
> >http://code.google.com/p/lemontree/downloads/list
> > I am no Alan Yates however maybe you will find some things of
> > interest.
> > Sean O'Connor
>
> OK Hopping back on topic. =A0 =A0 =A0I recall that there are stiff materi=
als -
> like steel compared to aluminum,and stiff structures - like an aluminum
> tube compared with a steel strip of the same weight per length.
>
> In the same way, you have brought up negative resistance structures of
> several designs, and I thought you were going to mention objects that
> have a naturally -ve resistance region. And you did at one point.
>
> I recall seeing on the net, some mention of an experimenter who scorched
```

> some galvanized sheet and found that a point contract placed on it could
> resonate a tuned circuit with its negative resistance.
>
> Gotta love those folks.
>
> Brian W

Hey OM:

I remember way back when we used to take blue steel double edge razor
blades and make a point contact negative resistance diode from them, a
good ground, and mother oats box wrapped with wire and a long wire
antenna, wow

73 OM
de n8zu

From -2939273036031739908
X-Google-Thread: fc2a5,c813ee8fb2a61db5
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!q18g2000vbk.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Negative Dynamic Resistance circuit collection
Date: Mon, 27 Dec 2010 10:46:11 -0800 (PST)
Organization: http://groups.google.com
Lines: 22
Message-ID: <11a66139-2495-45ca-bf94-5c8a5fa01bf6@q18g2000vbk.googlegroups.com>
References: <c4ef71e8-3bbb-49d9-b01d-bebf1eb6c77c@35g2000prb.googlegroups.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1293475571 18937 127.0.0.1 (27 Dec 2010 18:46:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 27 Dec 2010 18:46:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q18g2000vbk.googlegroups.com; posting-host=192.25.240.225;
posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.13)
Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4330

On Dec 20, 5:11=A0pm, Lemon Tree <bitterlemo...@yahoo.ie> wrote:
> I have posted a Negative Dynamic Resistance circuit collection along
> with some other things here:http://code.google.com/p/lemontree/downloads/=
list
> I am no Alan Yates however maybe you will find some things of

> interest.
> Sean O'Connor

FWIW, one well-known negative dynamic resistance element is (the input
side of) a switching power supply. If the supply maintains a nearly
constant efficiency with changing input voltage, and the output
supplies a constant-power load, then the input power is nearly
constant with changing input voltage: the current drops as the
voltage rises. Beware a few million personal computers on a power
grid: avoid letting them excite a resonance in the grid...

(Slightly off-topic: a Google search reveals that the power community
is indeed interested in grid resonances. See "Schumann Resonance,"
for example.)

Cheers,
Tom

```
From 7327204362124048321
X-Google-Thread: fc2a5,c813ee8fb2a61db5
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!s5g2000yqm.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Negative Dynamic Resistance circuit collection
Date: Mon, 27 Dec 2010 13:12:15 -0800 (PST)
Organization: http://groups.google.com
Lines: 24
Message-ID: <662487fa-e420-440c-bd80-58f6b13ca1a3@s5g2000yqm.googlegroups.com>
References: <c4ef71e8-3bbb-49d9-b01d-bebf1eb6c77c@35g2000prb.googlegroups.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1293484335 32546 127.0.0.1 (27 Dec 2010 21:12:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 27 Dec 2010 21:12:15 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s5g2000yqm.googlegroups.com; posting-host=192.25.240.225; posting-
account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.13)
 Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4331
```

On Dec 20, 5:11=A0pm, Lemon Tree <bitterlemo...@yahoo.ie> wrote:
> I have posted a Negative Dynamic Resistance circuit collection along
> with some other things here:http://code.google.com/p/lemontree/downloads/=
list

> I am no Alan Yates however maybe you will find some things of
> interest.
> Sean O'Connor

Others that a search of your document didn't find:
--Tunnel diode
--Back diode
--Unijunction transistor
--Gas discharges (e.g., neon light bulbs and even arcs in air)

Historical note: the negative resistance of an arc was used to excite an LC resonator in _arc_ (as opposed to spark) transmitters from a century or so ago. I'm often amazed at what early radio engineers were able to accomplish...

I guess there was a hint (at least, maybe more) in the text about trigger diodes, commonly used to trigger SCRs and triacs.

Cheers,
Tom

```
From -1259492744586377834
X-Google-Thread: fc2a5,bd1caa0e273c7d9b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n32g2000pre.googlegroups.com!not-for-
mail
From: darling <sunanda9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ATTRACTIVE HOT PHOTOS&VIDEOS
Date: Tue, 28 Dec 2010 07:33:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 40
Message-ID: <f1afa0d5-18a0-4d7b-905a-13d02a4c2844@n32g2000pre.googlegroups.com>
NNTP-Posting-Host: 117.199.246.133
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1293550408 29191 127.0.0.1 (28 Dec 2010 15:33:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 28 Dec 2010 15:33:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n32g2000pre.googlegroups.com; posting-host=117.199.246.133;
posting-account=eA4wLwoAAAAckpMIDmfK8bt53LPo9PCn
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.13)
 Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4035
```

SEXY DIYA MIRZA
http://karomasti9.blogspot.com/2010/12/diya-mirza.html
HOT AISHWARIYA RAI

```
http://karomasti9.blogspot.com/2010/12/aish.html
                     priyamani hot&sexy photos
http://karomasti9.blogspot.com/2010/12/priyamani.html
                      KATRINA SEXY PHOTOS
http://karomasti9.blogspot.com/2010/12/katrina.html
                 ANUSHKA HOT PHOTOS
http://karomasti9.blogspot.com/2010/12/anuska.html
                    BEAUTIFUL AISHWARIYA RAI
http://karomasti9.blogspot.com/2010/12/aiesh.html
                    TRISHA HOT PHOTOS
http://karomasti9.blogspot.com/2010/11/trisha-hot.html
              AMISHAPATEL HOT VIDEOS
http://karomasti9.blogspot.com/search/label/amisha
             HANSIKHA HOT SEXY PHOTOS
http://karomasti9.blogspot.com/search/label/HANSIKA
             HOT SEXY COLLEGE GIRLS
http://karomasti9.blogspot.com/search/label/hot
              BEAUTIFUL LARADATTA
http://karomasti9.blogspot.com/search/label/laradatta
              NIKISHA HOT BOOBS
http://karomasti9.blogspot.com/search/label/nikisha
           PRIYANKA SPICY LATEST PICS
http://karomasti9.blogspot.com/search/label/priyanka
              ONLY FOR YOUTH
http://karomasti9.blogspot.com/search/label/spicy
           SRILEKHA UNSEENED PHOTOS
http://karomasti9.blogspot.com/search/label/Srilekha
             CHOPRA UNBELIVABLE PHOTOS
http://karomasti9.blogspot.com/search/label/chopra
              HOT BIPASA BASU PHOTOS
http://karomasti9.blogspot.com/search/label/bipasa
              TRISHA IN A SEXY FEEL
http://karomasti9.blogspot.com/search/label/thrisha
           SRISHA HOT BOOBS SHOW
http://karomasti9.blogspot.com/search/label/srisha
           BEAUTIFUL POONAM PHOTOS
http://karomasti9.blogspot.com/search/label/poonam


From 1012185106786582721
X-Google-Thread: fc2a5,27b83796ac951e8a,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
cyclone03.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf01.ams.highwinds-media.com!newsfe08.ams2.POSTED!00000000!not-for-mail
From: "Philo T Farnsworth" <philo@farnsworth.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ;
Lines: 2
X-Priority: 3
X-MSMail-Priority: Normal
```

X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
X-RFC2646: Format=Flowed; Original
Message-ID: <A1oSo.85327$hW6.23365@newsfe08.ams2>
NNTP-Posting-Host: 86.15.200.53
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe08.ams2 1293552864 86.15.200.53 (Tue, 28 Dec 2010 16:14:24 UTC)
NNTP-Posting-Date: Tue, 28 Dec 2010 16:14:24 UTC
Organization: virginmedia.com
Date: Tue, 28 Dec 2010 16:14:22 -0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:4036

From 7585636804834515901
X-Google-Thread: 241b302a50,f8f78bd98d2eb20c
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Crystal Wanted
Date: Tue, 28 Dec 2010 19:15:31 -0500
Organization: A noiseless patient Spider
Lines: 38
Message-ID: <ifduj4$ms4$1@news.eternal-september.org>
References: <ZqsKo.10279$784.5792@newsfe28.ams2> <fmmck-
B20AD8.00362105122010@5ad64b5e.bb.sky.com> <rDOKo.24415$xk5.6971@newsfe05.ams2>
<idgg5r$7cc$1@news.eternal-september.org>
<61337a04-7b0a-4cff-8b04-2492bba9fd46@v17g2000prc.googlegroups.com>
<fmmck-2BB077.23160512122010@5ad64b5e.bb.sky.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Wed, 29 Dec 2010 00:15:33 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="VL7+FGeizAslN/b2XpKbNw";
logging-data="23428"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX1/JzSy5n78anDUOrcpO/gbViNtjAzpTxok="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.13) Gecko/20101208
Thunderbird/3.1.7
In-Reply-To: <fmmck-2BB077.23160512122010@5ad64b5e.bb.sky.com>
Cancel-Lock: sha1:dqHZEjSehSv9pJX0+ZPHUr21Rsc=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4334

On 12/12/2010 11:16 PM, Fred McKenzie wrote:
> In article
> <61337a04-7b0a-4cff-8b04-2492bba9fd46@v17g2000prc.googlegroups.com>,
> Stuart Longland VK4MSL<me@vk4msl.yi.org> wrote:

>
>> Out of curiosity, what's the difference between the "microprocessor"
>> type crystals and other crystals? Is it just frequency stability or
>> is there something more fundamental?
>
> Stuart-
>
> Michael's explanation brought back memories of my teenage years and
> home-brew crystal controlled rigs.
>
> A shorter answer is that a microprocessor crystal frequency may not be
> critical while a radio crystal frequency may be.
>
> It would be critical if you needed your transmitter to be on an exact
> frequency. In your computer, it wouldn't matter much because no one is
> listening! The only time it would matter is if the crystal frequency is
> used to keep the computer's clock accurate.
>
> Fred
> K4DII

There is nothing wrong with microprocessor crystals, they are often made to good tolerances, often 10ppm or better. There are only a few common frequencies (not surprising many are a power of two, or a multiple thereof), and the crystals are manufactured in huge numbers so they are cheap (often around 50 cents each or less in small lots). Many hams have built good IF ladder filters out of these rocks. You do have to buy a few of them to find a matched set for the filter, but the total cost will be a fraction of what a new filter would cost. Another thing about these crystals is that they are often found in very small SMT packages. I'm not sure that the smallest sizes work well in a ladder filter though. The same goes for the 'tuning fork' version that uses laser timed metal elements with a very small amount of quartz (I've heard that high quality quartz is getting scarce and crystal makers are looking at ways to use less).

From -8696718685789974266
X-Google-Thread: fc2a5,c84574b8e1f8c4cb,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y19g2000prb.googlegroups.com!not-for-mail
From: rajesh kannan <rajeshkannan.am@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: JOIN WITH THE INDIANFRIENDFINDER
Date: Tue, 28 Dec 2010 22:20:42 -0800 (PST)
Organization: http://groups.google.com
Lines: 1
Message-ID: <63d35471-ca1b-4df8-86b1-607673cda042@y19g2000prb.googlegroups.com>
NNTP-Posting-Host: 115.184.73.11
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1

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X-Trace: posting.google.com 1293603642 31133 127.0.0.1 (29 Dec 2010 06:20:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 29 Dec 2010 06:20:42 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y19g2000prb.googlegroups.com; posting-host=115.184.73.11; posting-
account=iqxWXgoAAAD_DS4YfXrYIRZu4LghuRWv
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.80 (Windows NT 5.1; U; en) Presto/2.7.62 Version/
11.00,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4335
```

http://123maza.com/35/make854/

```
From 7606811660154020488
X-Google-Thread: fc2a5,34ada910c4a5dee1,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!d1g2000pra.googlegroups.com!not-for-
mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SDR RF / IF gain and noise questions
Date: Wed, 29 Dec 2010 09:50:00 -0800 (PST)
Organization: http://groups.google.com
Lines: 47
Message-ID: <389f7fd7-3ab6-40ef-85d6-f9b3267d82ba@d1g2000pra.googlegroups.com>
NNTP-Posting-Host: 219.89.66.184
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1293645000 13654 127.0.0.1 (29 Dec 2010 17:50:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 29 Dec 2010 17:50:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d1g2000pra.googlegroups.com; posting-host=219.89.66.184; posting-
account=TfKoOgkAAABQzW2yM8tZrYe8S04m-wqP
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
 AppleWebKit/534.10 (KHTML, like Gecko) Chrome/8.0.552.224 Safari/534.10,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4336
```

Hi All,

I am developing a small, low power SDR from the ground up, planned
phases include:

a) hardware development DSP and RF up-convertor
b) algorithm development FM encode and decode
c) algorithm development SSB encode and decode
d) hardware development RX down-convertor, and IF gain, with AGC
e) hardware development RX front-end
f) hardware development TX amplifier

g) hardware development LO generation (initially a signal generator)

Phases a) and b) are complete and working to my satisfaction, phase c) is a couple of days away from completion, so it's time to start thinking about d)

The IF is base-band (DC to 5kHz) I+Q, and the DSP on board ADC is capable of 10 bit resolution. I am planning to move to a 16 or 20 bit consumer audio codec in due course. Assume a 2V ADC reference in each case, so an LSB change for a 10 bit system will be around 2mV while and LSB change for a 16 bit system will be around 30uV.

The down-convertor is an RF2703 which has 24dB gain and 24dB noise figure in the planned configuration.

My question really revolves around noise figure and gain for the IF and RF front ends for use with 10 and 16 bit ADCs, and for use at 14MHz and 144MHz, also options where to put the AGC.

First issue really is 'what is appropriate performance' for the front ends ? At 144Mhz, -122dBm for 12dB SINAD seems like an appropriate number (is it ?). What should I be attempting for 14MHz ?- this band is much noisier.

Second issue is about gain and noise figure for the RF and IF stages - any thoughts on how to calculate these figures will be most appreciated.

Finally AGC - where, how, options, pros and cons.

If these aren't the correct questions for me to be asking, then what are the correct questions ?

Thoughts, pointers and help all appreciated.

Many thanks, Mark

From -2970191918187531605
X-Google-Thread: fc2a5,5209140983cfa67b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-14.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Impedance of passive mixer's output
Lines: 11
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;

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     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
Message-ID: <_qwTo.556078$Yn5.529346@en-nntp-14.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Fri, 31 Dec 2010 18:36:40 -0800
Xref: g2news1.google.com rec.radio.amateur.homebrew:4041
```

I'm designing an IF filter for a receiver that's placed at the output of a passive (diode-type) mixer. While the mixer's RF input is being fed with a (nominally) 50ohm source, is it correct to think that "looking" back into the IF port the filter is going to "see" a 50ohm impedance as well? (Normally I'd have a buffer stage right after the mixer to re-establish impedance levels, but in this case I'm trying to keep things low-power and hence directly feed the mixer's output into the filter.)

Thanks,
---Joel

```
From 7304251314523166704
X-Google-Thread: 241b302a50,d2e252304c5ea03f,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1291186801@panix.com>
Followup-To: poster
Date: 1 Jan 2011 02:00:01 -0500
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Feb 2011 02:00:00 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1293865200@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
```

X-Trace: reader1.panix.com 1293865202 23161 166.84.1.2 (1 Jan 2011 07:00:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 1 Jan 2011 07:00:02 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
Xref: g2news2.google.com rec.radio.amateur.antenna:21895 rec.radio.amateur.dx:881 rec.radio.amateur.equipment:2635 rec.radio.amateur.homebrew:4339 rec.radio.amateur.misc:5969 rec.radio.amateur.policy:32418 rec.radio.amateur.space:452 rec.radio.info:2074

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may

still choose to reject articles crossposted to any alt.* newsgroup with
an inappropriate name, including obscene language, embedded
name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.

From 2967180433174198112
X-Google-Thread: fc2a5,5209140983cfa67b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
194.25.134.126.MISMATCH!newsfeed01.sul.t-online.de!t-online.de!nntp.infostrada.it!
twister2.libero.it.POSTED!not-for-mail
From: Piero Soldi <piero.soldi@libero.it>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; it; rv:1.9.2.13) Gecko/
20101207 Thunderbird/3.1.7
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Impedance of passive mixer's output
References: <_qwTo.556078$Yn5.529346@en-nntp-14.dc1.easynews.com>
In-Reply-To: <_qwTo.556078$Yn5.529346@en-nntp-14.dc1.easynews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 26
Message-ID: <2oCTo.8201$0b.6294@twister2.libero.it>
Date: Sat, 01 Jan 2011 09:23:10 GMT
NNTP-Posting-Host: 151.95.122.180
X-Complaints-To: abuse@libero.it
X-Trace: twister2.libero.it 1293873790 151.95.122.180 (Sat, 01 Jan 2011 10:23:10
MET)
NNTP-Posting-Date: Sat, 01 Jan 2011 10:23:10 MET
Organization: [Infostrada]
Xref: g2news2.google.com rec.radio.amateur.homebrew:4340

Il 01/01/2011 3.36, Joel Koltner ha scritto:
> I'm designing an IF filter for a receiver that's placed at the output of
> a passive (diode-type) mixer. While the mixer's RF input is being fed
> with a (nominally) 50ohm source, is it correct to think that "looking"
> back into the IF port the filter is going to "see" a 50ohm impedance as
> well? (Normally I'd have a buffer stage right after the mixer to
> re-establish impedance levels, but in this case I'm trying to keep
> things low-power and hence directly feed the mixer's output into the
> filter.)
>
> Thanks,
> ---Joel
>

Yes,but only if the other two ports are closed with 50 ohm...

Happy new year,

  Piero.

P.S: Beware of filters, they are highly reactive outside their
      resonant frequency, so (they) reflect back signals with
      worsening behaviour of mixer (spurs).
P.

```
From -9041019921306003647
X-Google-Thread: 241b302a50,4a1d9a07bbe75cae,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe04.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.13) Gecko/20101208
Thunderbird/3.1.7
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: happy new year
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 1
Message-ID: <7nITo.87$7O2.73@newsfe04.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Sat, 01 Jan 2011 16:11:47 UTC
Organization: TeraNews.com
Date: Sat, 01 Jan 2011 10:11:46 -0600
Xref: g2news2.google.com rec.radio.amateur.homebrew:4341
```

http://www.lagmonster.info/humor/handclock.html

```
From -1013410585927853040
X-Google-Thread: fc2a5,5209140983cfa67b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder3.cambriumusenet.nl!
feeder1.cambriumusenet.nl!feed.tweaknews.nl!194.109.133.84.MISMATCH!
newsfeed.xs4all.nl!newsfeed5.news.xs4all.nl!xs4all!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Impedance of passive mixer's output
Date: Sat, 01 Jan 2011 19:50:12 -0500
```

Organization: A noiseless patient Spider
Lines: 40
Message-ID: <ifoi4b$ue6$1@news.eternal-september.org>
References: <_qwTo.556078$Yn5.529346@en-nntp-14.dc1.easynews.com>
<2oCTo.8201$0b.6294@twister2.libero.it>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sun, 2 Jan 2011 00:50:20 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="kRk+dg1NxKz7o9BtRokcxg";
logging-data="31174"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX19OwFKxXNiIxmrmSZghL3nEXbRP3Y/80VY="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.13) Gecko/20101208
Thunderbird/3.1.7
In-Reply-To: <2oCTo.8201$0b.6294@twister2.libero.it>
Cancel-Lock: sha1:eCgPk/ggm+jLjW/VKNdzT0F5XH0=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4045

On 01/01/2011 04:23 AM, Piero Soldi wrote:
> Il 01/01/2011 3.36, Joel Koltner ha scritto:
>> I'm designing an IF filter for a receiver that's placed at the output of
>> a passive (diode-type) mixer. While the mixer's RF input is being fed
>> with a (nominally) 50ohm source, is it correct to think that "looking"
>> back into the IF port the filter is going to "see" a 50ohm impedance as
>> well? (Normally I'd have a buffer stage right after the mixer to
>> re-establish impedance levels, but in this case I'm trying to keep
>> things low-power and hence directly feed the mixer's output into the
>> filter.)
>>
>> Thanks,
>> ---Joel
>>
>
> Yes,but only if the other two ports are closed with 50 ohm...
>
> Happy new year,
>
> Piero.
>
> P.S: Beware of filters, they are highly reactive outside their
> resonant frequency, so (they) reflect back signals with
> worsening behaviour of mixer (spurs).
> P.
>
>
Put a diplexor between the output of the mixer and the filter. Use a
matching transformer between the filter and the mixer so the mixer will
see a 50 ohm impedance. In my case I assumed the filter had an
impedance of about 500 ohms so I am going to use a 1:9 (1:3 turns ratio)
between the mixer and the filter. This transformer will be a trifiler
wound toroid and will be wired as an autotransformer. (the three
windings in series connect to the filter and ground, a tap on the first
winding up from ground will go to the mixer). The diplexor consistes of

a series resonant circuit between the mixer and the filter. In parallel
with this series resonant circuit are two 51 ohm resistors in series
with a parallel resonant circuit between the two resistors and ground.
Select the L&C to resonant at the IF frequency with a Q of 1.

```
From -3058826131519637238
X-Google-Thread: fc2a5,5209140983cfa67b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!o14g2000yqe.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Impedance of passive mixer's output
Date: Sat, 1 Jan 2011 21:10:47 -0800 (PST)
Organization: http://groups.google.com
Lines: 31
Message-ID: <6ab27ffa-eaac-4041-bd89-24184bc7fc6f@o14g2000yqe.googlegroups.com>
References: <_qwTo.556078$Yn5.529346@en-nntp-14.dc1.easynews.com>
NNTP-Posting-Host: 74.110.84.30
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1293945047 11280 127.0.0.1 (2 Jan 2011 05:10:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 2 Jan 2011 05:10:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o14g2000yqe.googlegroups.com; posting-host=74.110.84.30; posting-
account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.13)
 Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4343

On Dec 31 2010, 6:36=A0pm, "Joel Koltner" <zapwireDASHgro...@yahoo.com>
wrote:
> I'm designing an IF filter for a receiver that's placed at the output of =
a
> passive (diode-type) mixer. =A0While the mixer's RF input is being fed wi=
th a
> (nominally) 50ohm source, is it correct to think that "looking" back into=
 the
> IF port the filter is going to "see" a 50ohm impedance as well? =A0(Norma=
lly I'd
> have a buffer stage right after the mixer to re-establish impedance level=
s,
> but in this case I'm trying to keep things low-power and hence directly f=
eed
> the mixer's output into the filter.)
>
```

> Thanks,
> ---Joel

Normally the LO port is driven hard enough that one pair or the other
of the diodes looks like a low resistance almost all the time. Thus
the source impedance feeding the RF port is echoed, plus a little, to
the IF port, assuming 1:1 transformers in the mixer. As I recall, I
measured something close to 60 ohms for one MiniCircuits mixer
(probably a +7dBm type), under conditions I don't recall now other
than that they were nominally as you're describing. As Ken Scharf
says, it's good to use a diplexer to maintain a constant load at all
frequencies.

Cheers,
Tom

From -3991489225708341646
X-Google-Thread: fc2a5,5209140983cfa67b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-06.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <_qwTo.556078$Yn5.529346@en-nntp-14.dc1.easynews.com>
<2oCTo.8201$0b.6294@twister2.libero.it>
Subject: Re: Impedance of passive mixer's output
Lines: 11
MIME-Version: 1.0
Content-Type: text/plain;
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charset="iso-8859-1";
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Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Mon, 3 Jan 2011 19:09:05 -0800
Xref: g2news1.google.com rec.radio.amateur.homebrew:4049

Thanks guys, I appreciate all the help.

The filter is a bandpass filter (the IF is 45MHz), though, so don't I really
need a triplexor if I really want to wideband terminate the mixer "nicely?"

(Low-, band-, and high-pass outputs.) Although my understanding is that
"triplexor" in this context can consist of a single inductor for the low-pass
port and a single capacitor for the high-pass port, which certainly is quite
doable.

---Joel

From 5642565396237009400
X-Google-Thread: 241b302a50,5209140983cfa67b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!r16g2000prh.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Impedance of passive mixer's output
Date: Tue, 4 Jan 2011 11:15:16 -0800 (PST)
Organization: http://groups.google.com
Lines: 46
Message-ID: <4a8cf05f-a41d-4b00-9d52-01f4883f0f58@r16g2000prh.googlegroups.com>
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 Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4348

On Jan 3, 7:09=A0pm, "Joel Koltner" <zapwireDASHgro...@yahoo.com> wrote:
> Thanks guys, I appreciate all the help.
>
> The filter is a bandpass filter (the IF is 45MHz), though, so don't I rea=
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?"
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pass
> port and a single capacitor for the high-pass port, which certainly is qu=

ite
> doable.
>
> ---Joel

?? So, "triplexor" to me means something with three bands, which you obviously won't do with just a high pass and a low pass. In any event, the goal is to keep a reasonably constant load on the mixer at all frequencies where it may have significant output. The distortion generated by a mixer depends on the load it sees.

If you go straight into a crystal filter from the mixer, it can be problematic to get a constant load impedance, since the impedance looking into the filter changes so rapidly in the sharp transition between passband and stopband. For example, if your passband is 44.99 to 45.01 and the mixer output has strong signals at 44.96 and 44.98, how can you, with a practical LC circuit, make sure those signals are terminated in an impedance which maintains low distortion, while still passing the signals in that range to the sharp filter? Note that 3rd order intermod between those two out-of-band signals I suggested lands right in the middle of the crystal filter bandpass. That's why you want to be sure to terminate the mixer in an impedance that doesn't lead to excessive distortion (in particular, distortion products that can land in the passband of the crystal filter). I think a reasonable answer is to learn what range of termination impedance causes problems, and what range is OK. For example, it may be bad if the mixer is terminated in an "open", but of relatively little consequence if it's terminated in a "short." That gives you a handle on how to achieve the lowest practical distortion--which is generally the whole point of controlling the load impedance seen by the mixer over a wide frequency range.

Cheers,
Tom

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From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <_qwTo.556078$Yn5.529346@en-nntp-14.dc1.easynews.com> <2oCTo.8201$0b.6294@twister2.libero.it> <mbwUo.84219$Mg5.76673@en-nntp-06.dc1.easynews.com> <4a8cf05f-a41d-4b00-9d52-01f4883f0f58@r16g2000prh.googlegroups.com>
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Lines: 27
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
Message-ID: <W3RUo.90814$Ud7.35387@en-nntp-16.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Tue, 4 Jan 2011 18:54:43 -0800
Xref: g2news2.google.com rec.radio.amateur.homebrew:4349

Hi Tom,

"K7ITM" <k7itm@msn.com> wrote in message
news:4a8cf05f-a41d-4b00-9d52-01f4883f0f58@r16g2000prh.googlegroups.com...
>?? So, "triplexor" to me means something with three bands, which you
>obviously won't do with just a high pass and a low pass.

What I meant was... output of mixer to parallel connectors of (1) the crystal filter (bandpass) , (2) series inductor/resistor (low-pass), and (3) series capacitor/resistor (high-pass), hence, a triplexor.

But I realize now that a duplexor is just as viable, consisting of a parallel connection of (1) the crystal filter (bandpass) and (2) a parallel LC resonsator in series with a resistor (bandstop).

> In any
> event, the goal is to keep a reasonably constant load on the mixer at
> all frequencies where it may have significant output. The distortion
> generated by a mixer depends on the load it sees.

Yeah, I see what you mean. I should do some actual measurements to see just how much improvement is possible with a proper wideband termination...

Thanks for the help!

---Joel

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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!21g2000prv.googlegroups.com!not-for-mail

From: RHANI <raghavaraghavi2862@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: TAMIL ACTRESS HOT PHOTOS&VIDEOS
Date: Wed, 5 Jan 2011 07:11:06 -0800 (PST)
Organization: http://groups.google.com
Lines: 42
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Xref: g2news2.google.com rec.radio.amateur.homebrew:4351

UNSEEN HOT SEXY PHOTOS
http://karomasti9.blogspot.com/2011/01/never.html
SEXY DIYA MIRZA
http://karomasti9.blogspot.com/2010/12/diya-mirza.html
HOT AISHWARIYA RAI
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priyamani hot&sexy photos
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BEAUTIFUL AISHWARIYA RAI
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TRISHA HOT PHOTOS
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HANSIKHA HOT SEXY PHOTOS
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http://karomasti9.blogspot.com/search/label/laradatta
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From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Impedance of passive mixer's output
Date: Wed, 5 Jan 2011 14:42:50 -0800 (PST)
Organization: http://groups.google.com
Lines: 77
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Xref: g2news2.google.com rec.radio.amateur.homebrew:4352

On Jan 4, 6:54=A0pm, "Joel Koltner" <zapwireDASHgro...@yahoo.com> wrote:
> Hi Tom,
>
> "K7ITM" <k7...@msn.com> wrote in message
>
> news:4a8cf05f-a41d-4b00-9d52-01f4883f0f58@r16g2000prh.googlegroups.com...
>
```

> >?? =A0So, "triplexor" to me means something with three bands, which you
> >obviously won't do with just a high pass and a low pass.
>
> What I meant was... output of mixer to parallel connectors of (1) the cry=
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> filter (bandpass) , (2) series inductor/resistor (low-pass), and (3) seri=
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> capacitor/resistor (high-pass), hence, a triplexor.
>
> But I realize now that a duplexor is just as viable, consisting of a para=
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> connection of (1) the crystal filter (bandpass) and (2) a parallel LC
> resonsator in series with a resistor (bandstop).
>
> > In any
> > event, the goal is to keep a reasonably constant load on the mixer at
> > all frequencies where it may have significant output. =A0The distortion
> > generated by a mixer depends on the load it sees.
>
> Yeah, I see what you mean. =A0I should do some actual measurements to see=
 just
> how much improvement is possible with a proper wideband termination...

Well, as the second paragraph of my previous posting hints, a 50 ohm
termination at all frequencies may actually not be optimal. There's
no law of physics, as far as I know, that says the mixer's lowest
distortion (especially distortion products that fall in the following
filter's passband) happens when it's loaded by 50 ohms. If you set up
to make some measurements, you may find that you actually get lower
distortion at some other load impedance. Perhaps optimal for the
mixer's performance would be a 50 ohm load in the filter passband, to
maximize signal output, and, say, a short at all other frequencies.
I'm not saying it IS that way for any given mixer, and perhaps not for
ANY mixer, but it's a question worth pondering if you're looking for
the best possible distortion performance.

But then you'll find the next problem: the input impedance of the
crystal filter will change dramatically, very quickly, in the region
of its passband -- and likely will be capacitive on one side of the
passband and inductive on the other side. Assuming it's a reflective
design with low internal dissipation, by definition it must reflect
out-of-band energy (and pass in-band energy to the load at the other
end of the filter). Given that situation, how do you design a circuit
that will maintain the load impedance you want for your mixer, for
frequencies a little below the filter passband, in the filter
passband, and a little above the filter passband? If you try to do it
with inductors and capacitors, where do you get parts with high enough
Q to allow the required extremely rapid change of impedance near the
filter's center frequency? Or do you just accept that the distortion
won't be optimized? Or do you throw away some of the signal and put
in a bit of attenuation (a 50 ohm pad) between mixer and filter? Or
do you go looking for the "Holy Grail": a buffer amplifier that runs
on low power and offers good input and output return loss, a third

order intercept that doesn't degrade further what the mixer has already done, and a good enough noise figure? The buffer amplifier can solve the matching problems (at least if you're happy with a constant load, e.g. 50 ohms, on the mixer), but it's not trivial to find an amplifier that will do what you need without introducing problems worse than the cure.

As you think about all this stuff, it becomes easy to see why nobody has yet built the perfect receiver. ;-)

Cheers,
Tom

>
> Thanks for the help!
>
> ---Joel

```
From 1412176273872440278
X-Google-Thread: 241b302a50,5209140983cfa67b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
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mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <_qwTo.556078$Yn5.529346@en-nntp-14.dc1.easynews.com>
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X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
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will be unable to process your complaint properly.
Date: Wed, 5 Jan 2011 15:10:40 -0800
Xref: g2news2.google.com rec.radio.amateur.homebrew:4353

"K7ITM" <k7itm@msn.com> wrote in message
news:f2ce4287-d0e9-4df5-8233-fedc02945933@32g2000yqz.googlegroups.com...
>As you think about all this stuff, it becomes easy to see why nobody
>has yet built the perfect receiver. ;-)

Hey, I was at a conference some five years or so ago now where some high-level
muckety-muck from Intel got up there and claimed that within a few years we're
be connecting antennas straight to ADCs and radios would henceforth be 100%
digital... :-)

Of course, it is a bit easier to build a good radio when you're operating in,
e.g., the cell phone bands and by law you control the spectrum (no big
intereferes), you manage the power of all the transmitters dynamically
(limited self-interference), etc.!

From 5816926524902975363
X-Google-Thread: 241b302a50,5209140983cfa67b
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From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Impedance of passive mixer's output
Date: Wed, 5 Jan 2011 20:16:12 -0500
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 29
Sender: et472@197-215-235-64-ppp.3menatwork.com
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NNTP-Posting-Date: 6 Jan 2011 01:16:32 GMT
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Xref: g2news2.google.com rec.radio.amateur.homebrew:4354

On Wed, 5 Jan 2011, Joel Koltner wrote:

> "K7ITM" <k7itm@msn.com> wrote in message
> news:f2ce4287-d0e9-4df5-8233-fedc02945933@32g2000yqz.googlegroups.com...
>> As you think about all this stuff, it becomes easy to see why nobody
>> has yet built the perfect receiver. ;-)
>
> Hey, I was at a conference some five years or so ago now where some
> high-level muckety-muck from Intel got up there and claimed that within a few
> years we're be connecting antennas straight to ADCs and radios would
> henceforth be 100% digital... :-)
>

No, that just means the potential is there for "the perfect receiver".
Even if the hardware is "perfect", the software still has to be written.

> Of course, it is a bit easier to build a good radio when you're operating in,
> e.g., the cell phone bands and by law you control the spectrum (no big
> intereferes), you manage the power of all the transmitters dynamically
> (limited self-interference), etc.!
>
>

Like that classic FM broadcast receiver in the old GE Transistor Manual.
A tunnel diode acting as an oscillator and mixer, it drops to an IF about
200KHz, where there is a pulse counting detector. It works because one
can live with the image frequencies, and one knows where all the wanted
signals will be.

Michael VE2BVW

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From 3523456462092221936
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Path: g2news1.google.com!postnews.google.com!r19g2000prm.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Impedance of passive mixer's output
Date: Wed, 5 Jan 2011 18:46:02 -0800 (PST)
Organization: http://groups.google.com
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Xref: g2news1.google.com rec.radio.amateur.homebrew:4058
```

On Jan 5, 3:10=A0pm, "Joel Koltner" <zapwireDASHgro...@yahoo.com> wrote:
> "K7ITM" <k7...@msn.com> wrote in message
>
> news:f2ce4287-d0e9-4df5-8233-fedc02945933@32g2000yqz.googlegroups.com...
>
> >As you think about all this stuff, it becomes easy to see why nobody
> >has yet built the perfect receiver. =A0;-)
>
> Hey, I was at a conference some five years or so ago now where some high-=
level
> muckety-muck from Intel got up there and claimed that within a few years =
we're
> be connecting antennas straight to ADCs and radios would henceforth be 10=
0%
> digital... :-)
>
> Of course, it is a bit easier to build a good radio when you're operating=
 in,
> e.g., the cell phone bands and by law you control the spectrum (no big
> intereferes), you manage the power of all the transmitters dynamically
> (limited self-interference), etc.!

Well, I guess it was about four years ago now we introduced a 100kHz
to ~35MHz receiver that practically does that. There are gain stages,
attenuators and some selectable filtering in front of the ADC, but our
customers want to be able to "listen" to the whole band at once, so
you can switch the filtering all out if you want. I did most of the
hardware, up to the signal processing. We've gotten feedback from
some customers that it's the best receiver (for that purpose) that
they can buy. It's particularly spur/residual-free: I added some
copper tape to one to see just how good I could make it, and the worst
residual is about -144dBm at the switching frequency of one of the
switching POL regulators (around 600kHz). Worst residual above 1MHz
is about -154dBm. I think it's fair to say that's pretty hard to do
with a general-coverage superhet design. But neither the hardware nor
the software that goes with it are inexpensive enough to worry that
it's going to replace other ways to do it any time soon--and the
performance doesn't quite equal what you can do with a really good
single-signal superhet design. Check in again in a few years,
assuming that there's enough economic incentive for ADC designers to

give us a little bit better parts. There are some claims out there for really stellar ADC performance with Josephson junctions, but they require cryogenics, and from what I've heard not all the claims are substantiated...

By the way, the gain that's available in front of the ADC in this design is mostly there because customers expect to need the gain, based on previous experience. In a perfect world where they really understood what's needed, I could have gotten by with maybe 10dB maximum available voltage gain between the antenna and the ADC. I'm more worried about how to gracefully handle big signals--much more worried. What do you do about the plethora of short wave broadcast signals, several of which can each be up to perhaps 0dBm out of your antenna, or the fellow just down the street (or on the same ship, etc.) who keys up a transmitter and feeds +20dBm to your receiver -- WHILE you want to keep listening to the signal that's only -110dBm at your receiver?

Cheers,
Tom

```
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X-Google-Thread: fc2a5,5209140983cfa67b
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X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Wed, 05 Jan 2011 23:08:08 -0600
From: Doug Edwards <Doug.Edwards.76b04d8@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Impedance of passive mixer's output
Date: Thu, 6 Jan 2011 04:01:35 +0000
Message-ID: <Doug.Edwards.76b04d8@radiobanter.com>
Organization: RadioBanter.com
References:  <_qwTo.556078$Yn5.529346@en-nntp-14.dc1.easynews.com>
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X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 12
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Xref: g2news2.google.com rec.radio.amateur.homebrew:4356

'Joel Koltner[_2_ Wrote:
> ;727651']I'm designing an IF filter for a receiver that's placed at the
> output of a
> passive (diode-type) mixer. While the mixer's RF input is being fed
> with a
> (nominally) 50ohm source, is it correct to think that "looking" back
> into the
> IF port the filter is going to "see" a 50ohm impedance as well?
> (Normally I'd
> have a buffer stage right after the mixer to re-establish impedance
> levels,
> but in this case I'm trying to keep things low-power and hence directly
> feed
> the mixer's output into the filter.)
>
> Thanks,
> ---Joel

Hi Joel. In my experiance with diode ring mixers they almost always require specific impeadance terminations on all ports. The input should look at 50 ohms, the L.O the same. The I.F port is the most important to terminate properly if the desired switching or mixing products are to be produced. In many receivers designed for high dynamic range the I.F of the diode ring is terminated into the base circuit of a very strong bipolor transistor stage using feedback many times. Because of the feedback used and particular biasing this stage can be designed tolook like near 50 ohms to the I.F port of the diode ring. This is not enough many times though. This same transistor amp stage then many times drives a crytal I.F filter that can have the correct 50 ohm term if designed that way but this term will only be 50 ohms very near the passband of the filter and frequencies that depart from this 50 ohm passband away from this freq causing this hi SWR to reflect the incorect impeadance back through the output to input of the amp missmatching the diode ring. Amp.s that use heavy feedback are even worse in this respect. In cases like this the designer many times hooks a 50 ohm pad (such as 6 db) to force a decent 50 ohm load back through the amp to the mixer. This mixer termination stuff is quite important if the mixer is to work as it should.In situations where lower dynamic range is desired for battery drain, etc, this termination MUST be provided for in other ways. The same thing holds true for direct conversion or zero I.F receive schemes, the audio preamp is biased and designed for a 50 ohm term for the diode ring. Much can be learned in literature such about this topic from Solidstate Design for the Radio Amateur, Experimental Methods in Radio Design, both by coauthor Wes Hayward, W7ZOI and much can be learned from publications by Minicircuit Lab's, the builders of many high quality DBM's for industry. Check the web, much can be learned. 73's, Doug,

--
Doug Edwards

```
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Path: g2news2.google.com!postnews.google.com!d8g2000yqf.googlegroups.com!not-for-
mail
From: BERGH <mattosbw1@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 4000 Solutions manual to Mechanics, Mechanical Engineering and
 Aerospace Engineering Books
Date: Thu, 6 Jan 2011 00:32:15 -0800 (PST)
Organization: http://groups.google.com
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X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.0; es-ES; rv:1.9.2.13)
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Xref: g2news2.google.com rec.radio.amateur.homebrew:4357
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X-Google-Attributes: gid241b302a50,public,usenet
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X-Google-Language: ENGLISH,CP1252
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X-Google-Thread: fc2a5,58aa2ed7fe2eac8,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!i18g2000yqn.googlegroups.com!not-for-
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Date: Thu, 6 Jan 2011 00:33:59 -0800 (PST)
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Message-ID: <870bfb1a-60d3-4f94-b499-c97f7c75786e@i18g2000yqn.googlegroups.com>
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Content-Type: text/plain; charset=ISO-8859-1
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X-Google-NewGroupId: yes
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From 3965540225712030120
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X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
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From: claudeh <hclaudioblanco@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 4000 Solutions manual and Test banks to Materials Engineering Books
Date: Thu, 6 Jan 2011 01:01:41 -0800 (PST)
Organization: http://groups.google.com
Lines: 182
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Injection-Info: k30g2000vbn.googlegroups.com; posting-host=190.40.58.13; posting-account=mFFJOAoAAABaIQEBRX5f95y3rtsFRjms
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.0; es-ES; rv:1.9.2.13)
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Solution manual Composite Materials : Science and Engineering (2nd Ed., Krishan K. Chawla)
Solution manual Laminar Composites (George Staab)
Solution manual Physical Metallurgy and Advanced Materials (7th Ed., R.E. Smallman & A.H.W. Ngan)

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contact me to :   mattosbw1@gmail.com
mattosbw1(at)gmail.com

From 1135296030935776848
X-Google-Thread: fc2a5,78805ff2b957b0c5,start
X-Google-NewGroupId: yes

```
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!u25g2000pra.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ONLY HOT VIDEOS SEXY PHOTOS TO SEXY PEOPLE
Date: Thu, 6 Jan 2011 01:44:30 -0800 (PST)
Organization: http://groups.google.com
Lines: 56
Message-ID: <eba59f21-b6d9-43c5-8a98-ec7250304368@u25g2000pra.googlegroups.com>
NNTP-Posting-Host: 117.199.253.169
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1294307070 18527 127.0.0.1 (6 Jan 2011 09:44:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 6 Jan 2011 09:44:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u25g2000pra.googlegroups.com; posting-host=117.199.253.169;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.13)
 Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4366

         hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

                     HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
```

http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

for more hot videos

http://videosonblog.blogspot.com/2010/11/masala-videos.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

hot photos
http://photostou.blogspot.com/2010/09/bollywood-actress-photos-4.html

```
From 8309525643921155562
X-Google-Thread: 241b302a50,3c4d0abbac0ef7c0,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p7g2000prb.googlegroups.com!not-for-mail
From: tejaswini <teju9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 2010 HOT UPDATES
Date: Thu, 6 Jan 2011 07:56:55 -0800 (PST)
Organization: http://groups.google.com
Lines: 42
Message-ID: <767f4efc-67bb-4489-ace2-9aa24d5ce462@p7g2000prb.googlegroups.com>
NNTP-Posting-Host: 117.199.245.126
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1294329416 24492 127.0.0.1 (6 Jan 2011 15:56:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 6 Jan 2011 15:56:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
```

```
Injection-Info: p7g2000prb.googlegroups.com; posting-host=117.199.245.126;
posting-account=6xaZwQoAAACqKFwd8FfwWgPIkcC-Icg-
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.13)
 Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4367

           UNSEEN HOT SEXY PHOTOS
 http://karomasti9.blogspot.com/2011/01/never.html
                        SEXY DIYA MIRZA
   http://karomasti9.blogspot.com/2010/12/diya-mirza.html
                        HOT AISHWARIYA RAI
http://karomasti9.blogspot.com/2010/12/aish.html
                     priyamani hot&sexy photos
http://karomasti9.blogspot.com/2010/12/priyamani.html
                      KATRINA SEXY PHOTOS
http://karomasti9.blogspot.com/2010/12/katrina.html
                 ANUSHKA HOT PHOTOS
http://karomasti9.blogspot.com/2010/12/anuska.html
                    BEAUTIFUL AISHWARIYA RAI
http://karomasti9.blogspot.com/2010/12/aiesh.html
                    TRISHA HOT PHOTOS
http://karomasti9.blogspot.com/2010/11/trisha-hot.html
              AMISHAPATEL HOT VIDEOS
http://karomasti9.blogspot.com/search/label/amisha
             HANSIKHA HOT SEXY PHOTOS
http://karomasti9.blogspot.com/search/label/HANSIKA
             HOT SEXY COLLEGE GIRLS
http://karomasti9.blogspot.com/search/label/hot
              BEAUTIFUL LARADATTA
http://karomasti9.blogspot.com/search/label/laradatta
              NIKISHA HOT BOOBS
http://karomasti9.blogspot.com/search/label/nikisha
           PRIYANKA SPICY LATEST PICS
http://karomasti9.blogspot.com/search/label/priyanka
              ONLY FOR YOUTH
http://karomasti9.blogspot.com/search/label/spicy
           SRILEKHA UNSEENED PHOTOS
http://karomasti9.blogspot.com/search/label/Srilekha
             CHOPRA UNBELIVABLE PHOTOS
http://karomasti9.blogspot.com/search/label/chopra
              HOT BIPASA BASU PHOTOS
http://karomasti9.blogspot.com/search/label/bipasa
              TRISHA IN A SEXY FEEL
http://karomasti9.blogspot.com/search/label/thrisha
           SRISHA HOT BOOBS SHOW
http://karomasti9.blogspot.com/search/label/srisha
           BEAUTIFUL POONAM PHOTOS
http://karomasti9.blogspot.com/search/label/poonam


From -947800392069412860
X-Google-Thread: fc2a5,5209140983cfa67b
```

```
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-02!easynews.com!en-
nntp-09.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <_qwTo.556078$Yn5.529346@en-nntp-14.dc1.easynews.com>
<2oCTo.8201$0b.6294@twister2.libero.it> <mbwUo.84219$Mg5.76673@en-
nntp-06.dc1.easynews.com> <4a8cf05f-
a41d-4b00-9d52-01f4883f0f58@r16g2000prh.googlegroups.com>
<W3RUo.90814$Ud7.35387@en-nntp-16.dc1.easynews.com> <f2ce4287-d0e9-4df5-8233-
fedc02945933@32g2000yqz.googlegroups.com> <ST6Vo.91652$Mg5.15525@en-
nntp-06.dc1.easynews.com> <f0407cef-0847-4699-
a8dc-98545495115f@r19g2000prm.googlegroups.com>
Subject: Re: Impedance of passive mixer's output
Lines: 24
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
Message-ID: <9fnVo.498754$Ua4.352609@en-nntp-09.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Thu, 6 Jan 2011 09:47:47 -0800
Xref: g2news2.google.com rec.radio.amateur.homebrew:4368
```

"K7ITM" <k7itm@msn.com> wrote in message
news:f0407cef-0847-4699-a8dc-98545495115f@r19g2000prm.googlegroups.com...
On Jan 5, 3:10 pm, "Joel Koltner" <zapwireDASHgro...@yahoo.com> wrote:

> What do you do about the plethora of short wave broadcast
> signals, several of which can each be up to perhaps 0dBm out of your
> antenna, or the fellow just down the street (or on the same ship,
> etc.) who keys up a transmitter and feeds +20dBm to your receiver --
> WHILE you want to keep listening to the signal that's only -110dBm at
> your receiver?

At work one of the products we sell to the military consists of a handful of electronically adjustable notch filters for precisely this purpose -- the output is fed to (someone else's) SDR.

...although our dynamic range isn't the 130dB+ that you'd need for your later example... (at least in some reasonable bandwidth...)

Your almost-all-digital HF receiver there sounds quite impressive. Do you give the user the option to adjust the switcher's frequency away from 600kHz if they happen to really want the best sensitivity right there? (...this seems to be the common approach with many a ham HF rig...)

---Joel

```
From 2566186774776919002
X-Google-Thread: fc2a5,5209140983cfa67b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!
news2.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!
easynews.com!en-nntp-09.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References:  <_qwTo.556078$Yn5.529346@en-nntp-14.dc1.easynews.com>
<Doug.Edwards.76b04d8@radiobanter.com>
Subject: Re: Impedance of passive mixer's output
Lines: 5
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
Message-ID: <rkoVo.498759$Ua4.187730@en-nntp-09.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Thu, 6 Jan 2011 11:01:41 -0800
Xref: g2news2.google.com rec.radio.amateur.homebrew:4369
```

Thank you Doug; I'll go grab Wes's book from the shelf and do a bit more Googling.

---Joel

```
From 5636384459554970557
X-Google-Thread: fc2a5,5209140983cfa67b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
```

```
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!k9g2000pre.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Impedance of passive mixer's output
Date: Thu, 6 Jan 2011 11:41:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 49
Message-ID: <4f34cf6e-69b9-4b15-86f1-34c225efa2cc@k9g2000pre.googlegroups.com>
References: <_qwTo.556078$Yn5.529346@en-nntp-14.dc1.easynews.com>
 <2oCTo.8201$0b.6294@twister2.libero.it> <mbwUo.84219$Mg5.76673@en-
nntp-06.dc1.easynews.com>
 <4a8cf05f-a41d-4b00-9d52-01f4883f0f58@r16g2000prh.googlegroups.com>
 <W3RUo.90814$Ud7.35387@en-nntp-16.dc1.easynews.com> <f2ce4287-d0e9-4df5-8233-
fedc02945933@32g2000yqz.googlegroups.com>
 <ST6Vo.91652$Mg5.15525@en-nntp-06.dc1.easynews.com> <f0407cef-0847-4699-
a8dc-98545495115f@r19g2000prm.googlegroups.com>
 <9fnVo.498754$Ua4.352609@en-nntp-09.dc1.easynews.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1294342888 381 127.0.0.1 (6 Jan 2011 19:41:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 6 Jan 2011 19:41:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k9g2000pre.googlegroups.com; posting-host=192.25.240.225; posting-
account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.13)
 Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4073

On Jan 6, 9:47=A0am, "Joel Koltner" <zapwireDASHgro...@yahoo.com> wrote:
> "K7ITM" <k7...@msn.com> wrote in message
>
> news:f0407cef-0847-4699-a8dc-98545495115f@r19g2000prm.googlegroups.com...
> On Jan 5, 3:10 pm, "Joel Koltner" <zapwireDASHgro...@yahoo.com> wrote:
>
> > What do you do about the plethora of short wave broadcast
> > signals, several of which can each be up to perhaps 0dBm out of your
> > antenna, or the fellow just down the street (or on the same ship,
> > etc.) who keys up a transmitter and feeds +20dBm to your receiver --
> > WHILE you want to keep listening to the signal that's only -110dBm at
> > your receiver?
>
> At work one of the products we sell to the military consists of a handful=
 of
> electronically adjustable notch filters for precisely this purpose -- the
> output is fed to (someone else's) SDR.
>
> ...although our dynamic range isn't the 130dB+ that you'd need for your l=
ater
> example... (at least in some reasonable bandwidth...)
>
> Your almost-all-digital HF receiver there sounds quite impressive. =A0Do =
you
> give the user the option to adjust the switcher's frequency away from 600=
kHz
> if they happen to really want the best sensitivity right there? =A0(...th=
is
> seems to be the common approach with many a ham HF rig...)
>
> ---Joel

Hi Joel,

I'm curious about the tunable notch filters.  Is there a data sheet I
can find somewhere?

There's really no need to get the ~600kHz any lower.  Any decent
antenna at that frequency will pick up way more atmospheric noise than
the level of the switcher residual.  After all, -144dBm is only about
14 nanovolts RMS at 50 ohms.  I think it's fair to say that any of our
customers looking for little signals will be using good antennas for
the job.  Admittedly, a stock unit won't do that good, but it will be
in the neighborhood.  Of course, the high noise level at ~1MHz is why
we get by with such crumby antennas for our portable and car AM
radios.

Cheers,
Tom


From -730103742013234854
X-Google-Thread: fcc6e,e60f151dc6887ef1,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,e60f151dc6887ef1,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,e60f151dc6887ef1,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,e60f151dc6887ef1,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,e60f151dc6887ef1,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,e60f151dc6887ef1,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,e60f151dc6887ef1,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf
6,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!novia!news-out.readnews.com!news-xxxfer.readnews.com!panix!
```

```
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1291705500@panix.com>
Followup-To: poster
Date: 7 Jan 2011 02:05:01 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Feb 2011 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1294383901@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1294383903 25274 166.84.1.2 (7 Jan 2011 07:05:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 7 Jan 2011 07:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news2.google.com rec.radio.amateur.antenna:21946 rec.radio.amateur.dx:897
rec.radio.amateur.equipment:2641 rec.radio.amateur.homebrew:4371
rec.radio.amateur.misc:5983 rec.radio.amateur.policy:32456 rec.radio.info:2086

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been
recently revived by an active moderation team.  We are currently seeking
suitable information, FAQ, and bulletin articles from the entire
rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our
newsgroup.

We are seeking a replacement maintainer for the following information
bulletin formerly posted to rec.radio.amateur.* (and currently archived
at http://www.faqs.org/faqs/radio/personal-intro/ ):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article       |
is that it does not mention newer amateur radio newsgroups created since      |
it was written, including:                                                    |
 rec.radio.amateur.antenna                                                 |
 rec.radio.amateur.boatanchors                                             |
 rec.radio.amateur.dx                                                      |
 rec.radio.amateur.equipment                                               |
 rec.radio.amateur.homebrew                                                |
 rec.radio.amateur.moderated                                               |
 rec.radio.amateur.space                                                   |
```

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions. We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

```
From -1338816612410870055
X-Google-Thread: fc2a5,34ada910c4a5dee1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!volia.net!news2.volia.net!feed-
A.news.volia.net!news.musoftware.de!wum.musoftware.de!news.albasani.net!not-for-
mail
From: Roupert <albertjones@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SDR RF / IF gain and noise questions
Date: Fri, 7 Jan 2011 21:35:01 +0000 (UTC)
Organization: albasani.net
Lines: 66
Message-ID: <ig80u5$tqn$2@news.albasani.net>
References: <389f7fd7-3ab6-40ef-85d6-f9b3267d82ba@d1g2000pra.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
X-Trace: news.albasani.net FIHkSlsqEWWWZXKpQufl4TEkMxRetUUH61Js8kY+8H2/Bi/
voUKEWKWzKr9ph0lmuG2v8Xb2iXZVxP94nGRBEw==
NNTP-Posting-Date: Fri, 7 Jan 2011 21:35:01 +0000 (UTC)
Cancel-Lock: sha1:9gcXkvxEMKuogEUPNLxKQHzX0lc=
Injection-Info: news.albasani.net; logging-
data="7w8fCPJaQOUItihA2tnHNUzctvnK8UOLrjU/wyFzhMHxZiQGn+Jr0AU5htPlql3jUUtOkZo88/
t954uzPB1XdStTCYauq45TgOr64qj3JTNrZaagKUd5htftytj+58NZ"; mail-complaints-
to="abuse@albasani.net"
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:4372

On Wed, 29 Dec 2010 09:50:00 -0800, MarkAren wrote:

> Hi All,
>
> I am developing a small, low power SDR from the ground up, planned
> phases include:
>
> a) hardware development DSP and RF up-convertor b) algorithm development
> FM encode and decode c) algorithm development SSB encode and decode d)
> hardware development RX down-convertor, and IF gain, with AGC e)
> hardware development RX front-end f) hardware development TX amplifier
> g) hardware development LO generation (initially a signal generator)
>
> Phases a) and b) are complete and working to my satisfaction, phase c)
> is a couple of days away from completion, so it's time to start thinking
> about d)
>
> The IF is base-band (DC to 5kHz) I+Q, and the DSP on board ADC is
> capable of 10 bit resolution. I am planning to move to a 16 or 20 bit
> consumer audio codec in due course. Assume a 2V ADC reference in each
> case, so an LSB change for a 10 bit system will be around 2mV while and
> LSB change for a 16 bit system will be around 30uV.
>
> The down-convertor is an RF2703 which has 24dB gain and 24dB noise
> figure in the planned configuration.
>
> My question really revolves around noise figure and gain for the IF and
> RF front ends for use with 10 and 16 bit ADCs, and for use at 14MHz and
> 144MHz, also options where to put the AGC.
>
> First issue really is 'what is appropriate performance' for the front
> ends ? At 144Mhz, -122dBm for 12dB SINAD seems like an appropriate
> number (is it ?). What should I be attempting for 14MHz ?- this band is
> much noisier.
>
> Second issue is about gain and noise figure for the RF and IF stages -
> any thoughts on how to calculate these figures will be most appreciated.
>
> Finally AGC - where, how, options, pros and cons.
>
> If these aren't the correct questions for me to be asking, then what are
> the correct questions ?
>
> Thoughts, pointers and help all appreciated.
>
> Many thanks, Mark

Front end band pass filters are really kind-a mandatory on any SDR as
people in high RF environments will simply have IM and a/d converter
overload. If you use AGC, the 100KW broadcaster or passing 500w aircraft
radio will close and reduce headroom diminishing weak signal sensitive in

the desired band.

Most all the good SDRs I've seen have several fixed freq band pass filters designed around common high power bands. But, what would rock would be a wide band (1Mhz or so) variable band pass filter with steep slopes on the front end before the first nonlinear device that could be center freq shifted. This would-could reduce the parts count and cost since you would only need one filter and a D/A converter to S/W control the shift.

Another idea would be a log amp on the front end to reduce the dynamic gain of signals over a certain voltage without changing the gain too much of weak signals. The signal could be inverse logged after the A/D. The down side is a non-linear signal feeding the converter which will hurt EbNo of digital signals.

```
From -8465354384108413308
X-Google-Thread: fc2a5,8f767c12490ae0e5,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r16g2000prh.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT VIDEOS SEXY SCANDELS PHOTOS
Date: Sun, 9 Jan 2011 01:24:55 -0800 (PST)
Organization: http://groups.google.com
Lines: 56
Message-ID: <fda37720-056a-42a4-ace9-72ba6031a25a@r16g2000prh.googlegroups.com>
NNTP-Posting-Host: 117.199.247.255
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1294565096 3597 127.0.0.1 (9 Jan 2011 09:24:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 9 Jan 2011 09:24:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r16g2000prh.googlegroups.com; posting-host=117.199.247.255;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.13)
 Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4373
```

hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html

HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

for more hot videos

http://videosonblog.blogspot.com/2010/11/masala-videos.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

hot photos
http://photostou.blogspot.com/2010/09/bollywood-actress-photos-4.html

From 3753160024629980208

X-Google-Thread: fc2a5,dd12832b613d9304,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!29g2000yqq.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ACTRESES REAL SEX VIDEOS N KISSING PHOTOS N JOBS
Date: Mon, 10 Jan 2011 22:39:26 -0800 (PST)
Organization: http://groups.google.com
Lines: 46
Message-ID: <5e72d4a4-d72d-47ce-b109-9bc158612f1d@29g2000yqq.googlegroups.com>
NNTP-Posting-Host: 117.199.254.177
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1294727966 28521 127.0.0.1 (11 Jan 2011 06:39:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 11 Jan 2011 06:39:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 29g2000yqq.googlegroups.com; posting-host=117.199.254.177;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.13)
Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4374

hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

hot photos
http://photostou.blogspot.com/2010/09/bollywood-actress-photos-4.html

HOT VIDEOS

hot lip kiss
http://hotvidos.blogspot.com/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.com/2010/07/hot-kisses.html
hollywood hot videos
http://hotvidos.blogspot.com/2010/07/hollywood-hot-videos.html

```
real hot videos
http://hotvidos.blogspot.com/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.com/2010/07/tamil-hot-videos.html

          JOBS
ORACLE JOBS
http://jobstwo.blogspot.com/2010/09/oracle-jobs.html
JAVA JOBS
http://jobstwo.blogspot.com/2010/09/java-jobs.html
dot net jobs
http://jobstwo.blogspot.com/2010/09/dot-net-jobs.html
software jobs
http://jobstwo.blogspot.com/2010/09/software-jobs.html
US JOBS
http://jobstwo.blogspot.com/2010/09/us-jobs.html
UK jobs overseas
http://jobstwo.blogspot.com/2010/09/uk-jobs-overseas.html




From -467335519777034115
X-Google-Thread: fc2a5,a27c712e0c2cfb4d,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f35g2000vbl.googlegroups.com!not-for-
mail
From: sowmya <sowmya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ONLY FOR YOUTH
Date: Tue, 11 Jan 2011 11:28:25 -0800 (PST)
Organization: http://groups.google.com
Lines: 46
Message-ID: <03aa2bd3-da43-4684-9c3f-5b98e19e1b3e@f35g2000vbl.googlegroups.com>
NNTP-Posting-Host: 117.199.240.136
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1294774194 26352 127.0.0.1 (11 Jan 2011 19:29:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 11 Jan 2011 19:29:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f35g2000vbl.googlegroups.com; posting-host=117.199.240.136;
posting-account=GuIc0goAAABHuN9VJ4di0FQvlAtWov1J
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.13)
 Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4375

               latest hot sruthi hassan stills
 http://karomasti9.blogspot.com/2011/01/shurthihassan-new-stills.html
            UNSEEN HOT SEXY PHOTOS
 http://karomasti9.blogspot.com/2011/01/never.html
             SAMANTHA HOT SEXY PHOTOS
http://karomasti9.blogspot.com/2011/01/samantha.html
                        SEXY DIYA MIRZA
   http://karomasti9.blogspot.com/2010/12/diya-mirza.html
                        HOT AISHWARIYA RAI
http://karomasti9.blogspot.com/2010/12/aish.html
                     priyamani hot&sexy photos
http://karomasti9.blogspot.com/2010/12/priyamani.html
                      KATRINA SEXY PHOTOS
http://karomasti9.blogspot.com/2010/12/katrina.html
                 ANUSHKA HOT PHOTOS
http://karomasti9.blogspot.com/2010/12/anuska.html
                    BEAUTIFUL AISHWARIYA RAI
http://karomasti9.blogspot.com/2010/12/aiesh.html
                    TRISHA HOT PHOTOS
http://karomasti9.blogspot.com/2010/11/trisha-hot.html
              AMISHAPATEL HOT VIDEOS
http://karomasti9.blogspot.com/search/label/amisha
             HANSIKHA HOT SEXY PHOTOS
http://karomasti9.blogspot.com/search/label/HANSIKA
             HOT SEXY COLLEGE GIRLS
http://karomasti9.blogspot.com/search/label/hot
              BEAUTIFUL LARADATTA
http://karomasti9.blogspot.com/search/label/laradatta
              NIKISHA HOT BOOBS
http://karomasti9.blogspot.com/search/label/nikisha
           PRIYANKA SPICY LATEST PICS
http://karomasti9.blogspot.com/search/label/priyanka
              ONLY FOR YOUTH
http://karomasti9.blogspot.com/search/label/spicy
           SRILEKHA UNSEENED PHOTOS
http://karomasti9.blogspot.com/search/label/Srilekha
             CHOPRA UNBELIVABLE PHOTOS
http://karomasti9.blogspot.com/search/label/chopra
              HOT BIPASA BASU PHOTOS
http://karomasti9.blogspot.com/search/label/bipasa
              TRISHA IN A SEXY FEEL
http://karomasti9.blogspot.com/search/label/thrisha
           SRISHA HOT BOOBS SHOW
http://karomasti9.blogspot.com/search/label/srisha
           BEAUTIFUL POONAM PHOTOS
http://karomasti9.blogspot.com/search/label/poonam


From 8874572893881795444
X-Google-Thread: fc2a5,7ed2549b28699651,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k13g2000vbq.googlegroups.com!not-for-
mail
From: sowmya <sowmya9030@gmail.com>
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: TAMIL ACTRESS HOT PHOTOS&VIDEOS
Date: Tue, 11 Jan 2011 20:24:17 -0800 (PST)
Organization: http://groups.google.com
Lines: 36
Message-ID: <52c99edf-1285-4515-a73f-cab3c01f4fb9@k13g2000vbq.googlegroups.com>
NNTP-Posting-Host: 117.199.241.170
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1294806257 21299 127.0.0.1 (12 Jan 2011 04:24:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 12 Jan 2011 04:24:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k13g2000vbq.googlegroups.com; posting-host=117.199.241.170;
posting-account=GuIc0goAAABHuN9VJ4di0FQvlAtWov1J
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.13)
 Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4376

 SAMEERAREDDY HOT BOOBS
http://karomasti9.blogspot.com/2011/01/sameerareddy.html
               HOT SEXY ACTRESS
  http://karomasti9.blogspot.com/2011/01/hot.html
               latest hot sruthi hassan stills
 http://karomasti9.blogspot.com/2011/01/shurthihassan-new-stills.html
            UNSEEN HOT SEXY PHOTOS
 http://karomasti9.blogspot.com/2011/01/never.html
             SAMANTHA HOT SEXY PHOTOS
http://karomasti9.blogspot.com/2011/01/samantha.html
                        SEXY DIYA MIRZA
   http://karomasti9.blogspot.com/2010/12/diya-mirza.html
                        HOT AISHWARIYA RAI
http://karomasti9.blogspot.com/2010/12/aish.html
                     priyamani hot&sexy photos
http://karomasti9.blogspot.com/2010/12/priyamani.html
                      KATRINA SEXY PHOTOS
http://karomasti9.blogspot.com/2010/12/katrina.html
                 ANUSHKA HOT PHOTOS
http://karomasti9.blogspot.com/2010/12/anuska.html
                    BEAUTIFUL AISHWARIYA RAI
http://karomasti9.blogspot.com/2010/12/aiesh.html
                    TRISHA HOT PHOTOS
http://karomasti9.blogspot.com/2010/11/trisha-hot.html
              AMISHAPATEL HOT VIDEOS
http://karomasti9.blogspot.com/search/label/amisha
             HANSIKHA HOT SEXY PHOTOS
http://karomasti9.blogspot.com/search/label/HANSIKA
             HOT SEXY COLLEGE GIRLS
http://karomasti9.blogspot.com/search/label/hot
              BEAUTIFUL LARADATTA
http://karomasti9.blogspot.com/search/label/laradatta
              NIKISHA HOT BOOBS
```

```
http://karomasti9.blogspot.com/search/label/nikisha
           PRIYANKA SPICY LATEST PICS
http://karomasti9.blogspot.com/search/label/priyanka



From -5895684932408232120
X-Google-Thread: fc2a5,a0c4a53edc7b221a,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k14g2000pre.googlegroups.com!not-for-
mail
From: geethu <malargeetha20119159686702@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: hello
Date: Tue, 18 Jan 2011 06:05:54 -0800 (PST)
Organization: http://groups.google.com
Lines: 1
Message-ID: <ec1abfdf-c37f-4047-8e13-aa07153dc3e6@k14g2000pre.googlegroups.com>
NNTP-Posting-Host: 122.178.190.25
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1295359555 19911 127.0.0.1 (18 Jan 2011 14:05:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 18 Jan 2011 14:05:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k14g2000pre.googlegroups.com; posting-host=122.178.190.25;
posting-account=gkBY0AoAAAAnCp5lfb5U3RBb0YwJwG2C
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4378

malargeetha20119159686702@gmail.com



From 1326159583641875941
X-Google-Thread: fc2a5,51f729e7a03113cd,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g26g2000vba.googlegroups.com!not-for-
mail
From: spamhog <n1jpr@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Confused: CLI Linux CW beacon software?
Date: Wed, 19 Jan 2011 09:53:58 -0800 (PST)
Organization: http://groups.google.com
Lines: 21
Message-ID: <b9fe2b2e-c48a-4b86-913e-08d18316f036@g26g2000vba.googlegroups.com>
NNTP-Posting-Host: 93.33.100.176
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
```

```
X-Trace: posting.google.com 1295459638 4723 127.0.0.1 (19 Jan 2011 17:53:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 19 Jan 2011 17:53:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g26g2000vba.googlegroups.com; posting-host=93.33.100.176; posting-
account=tuTwjgoAAABgsw0HP7EbLMV3yMd8jh4C
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.80 (Windows NT 5.1; U; en) Presto/2.6.30 Version/
10.63,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4082

Is there any software still being maintained for running a CW beacon-
like TX in command line Linux?

I am looking for something that could use a serial or parallel port to
send any specified text file, which would make it capable of sending
dynamically generated content (acquired or mailed-in and written to
text).

I saw
- cwbeacon, which seems self-contained, scriptable (in the above
sense), but  extremely old, unsupported, not included in any current
repository;
- cwdaemon for UDP to port keying, where UDP might  either simplify
things OR be an unnecessary passage;
- unixcw, which is alleged to port-key as an "option" - but I can't
see it..

Is this all? Is there a howto I missed? Is such CLI capability hidden
into any GUI app - e.g. as in the vlc-nox  player?

tnx es 73 de n1jpr



From -2726281625273412549
X-Google-Thread: fc2a5,4a3e318070c7cd18,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o11g2000prf.googlegroups.com!not-for-
mail
From: fitz <zeusrdx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: (from W2YDW) -- Two magnets will show you more than a thousand books.
Date: Thu, 20 Jan 2011 07:47:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 9
Message-ID: <85d85048-a210-48e0-9dde-75f77de7acfe@o11g2000prf.googlegroups.com>
NNTP-Posting-Host: 64.53.76.53
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1295538448 6366 127.0.0.1 (20 Jan 2011 15:47:28 GMT)
X-Complaints-To: groups-abuse@google.com
```

```
NNTP-Posting-Date: Thu, 20 Jan 2011 15:47:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o11g2000prf.googlegroups.com; posting-host=64.53.76.53; posting-
account=A451vgoAAAByc Jv5ugpkfX8QG96-xuRZ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0;
 Trident/4.0; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
 3.0.30618; yie8),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4083
```

Two magnets will show you more than a thousand books. (W2YDW)

(Click link below.)

http://www.amperefitz.com/two.magnets.htm

A letter to my old friend Doctor Ronald Massarik.

```
From -3271962954045891840
X-Google-Thread: fc2a5,c58e74cc6605ba9,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!goblin3!goblin.stu.neva.ru!
citadel.nobulus.com!newsfeed.ision.net!newsfeed2.easynews.net!ision!
news.belwue.de!news-zh.switch.ch!switch.ch!newsfeed01.chello.at!newsfeed01.sul.t-
online.de!t-online.de!feeder.erje.net!border3.nntp.ams.giganews.com!
Xl.tags.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!
local2.nntp.ams.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 22 Jan 2011 11:08:09 -0600
From: gpugelni <gpugelni.780c598@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Mosfet mixer
Date: Sat, 22 Jan 2011 15:56:16 +0000
Message-ID: <gpugelni.780c598@radiobanter.com>
Organization: RadioBanter.com
Lines: 19
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
SlGgG25x2RH6ePIyp4n8Mwypq6posFBKh0Vej9RlL9eJNANv4H+3rtl2v21wAAbAUnK0g/+o+EXSmWD!
RgaAT8txQiIJzyAqdmZNlj2NpOq75vezvnr+1QWWH4sJlqp06LvzJruUN4qOBDExc4REhPHRVUDV!
jPe+4TY=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 1
X-Original-Bytes: 1580
```

```
Xref: g2news1.google.com rec.radio.amateur.homebrew:4084
```

Hi,
I need help with this mixer on picture. Is it normal that after BF981 IF amplitude is lower then input signal in mixer (70MHz)? Would not this kind of mixer have some small gain? For XTAL I use 20MHz crystal instead of 60MHz (because I can't find 60MHz crstal) , I have oscilation of 60 MHz on G2, but I'm not sure is it ok to use 20MHz instead of 60MHz..

Thanks in advance,

```
+-------------------------------------------------------------------+
|Filename: mixer.jpg                                                |
|Download: http://www.radiobanter.com/attachment.php?attachmentid=804|
+-------------------------------------------------------------------+
```

--
gpugelni

```
From -3504532221152346
X-Google-Thread: 241b302a50,cdf97f44967c1268,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!u3g2000vbj.googlegroups.com!not-for-
mail
From: Bob <stenasc@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ANN: One time offer...ONEoverT Digital Filter Designer..reduced by
 90% to 30 GBP
Date: Sat, 22 Jan 2011 13:28:06 -0800 (PST)
Organization: http://groups.google.com
Lines: 41
Message-ID: <7b14d235-57c8-48ec-8db7-806d2f853006@u3g2000vbj.googlegroups.com>
NNTP-Posting-Host: 86.140.253.3
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1295731686 29109 127.0.0.1 (22 Jan 2011 21:28:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 22 Jan 2011 21:28:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u3g2000vbj.googlegroups.com; posting-host=86.140.253.3; posting-
account=GqLXXQoAAAALYTu6vAqRWFbJ1CzWTbqy
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.2.13)
 Gecko/20101203 Firefox/3.6.13 ( .NET CLR 3.5.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4382
```

Hi,

A spot of blatant advertising, and we'll not trouble you again for another few years, but we thought that we would give the amateur radio usenet community an opportunity to benefit, as we have over the years from using usenet groups. Many of our existing customers are also radio amateurs and many have of them an active interest in DSP.

ONEoverT Digital Filter Designer is used by them in the design and test of many DSP projects requiring filters including software defined radio, satellite receivers, telemetry modules etc.

For the month of January, we are making a one-time offer where we have reduced the price of full version of ONEoverT Digital Filter Designer by 90%. The last time we did this was eight years ago. From it's normal cost of 300 GBP, it is now only 30 GBP.

http://www.tyder.com

You will be able to design :

FIR filters (windowed and optimal) up to 8192 order
IIR filters. Butterworth, Chebyshev (Type I and II) and Elliptic
Root and Raised cosine filters up to 8192 order
Halfband filters up to 8192 order
Differentiators up to 8192 order
Hilbert Transformers up to 8192 order

You can also use the FFT facility to carry out frequency analysis of signal files.

You also have the ability to link with our VHDL module which you can
use to
generate all the above filter designs for FPGA or ASIC. Although this
is not part of the
offer at this time, we will look at each request on a case by case
basis and offer any cusyomer a great deal.

Best Regards
Bob Carter
Tyder Ltd

From -3930198913166211640
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail

From: John - KD5YI <sophi.2@invalid.org>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Thu, 24 Feb 2011 20:06:34 -0600
Organization: A noiseless patient Spider
Lines: 38
Message-ID: <ik72rd$suq$1@news.eternal-september.org>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<9fo2m6hrjti4ldr0enenoh2hujl28ecvuq@4ax.com>
<be7d$4d61790b$d8baf3b7$3554@KNOLOGY.NET>
<m0hbm6ltbs2043hv5016guoi15050ksm1g@4ax.com> <ik4hdb$snq$1@news.eternal-september.org> <71jcm61fvo7fgsmcq9o80vh5q8lqj3mcrk@4ax.com>
<ik6a24$mk5$1@news.eternal-september.org>
<nbudm6h4skfdff2nnn691ful0gnnijhkri@4ax.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Fri, 25 Feb 2011 02:06:38 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="R1JcZqQrnJVzF0KrDRtdjQ";
     logging-data="29658"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19+eKDvhc2gG7KJJcNPLhRU"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.13) Gecko/20101207 Thunderbird/3.1.7
In-Reply-To: <nbudm6h4skfdff2nnn691ful0gnnijhkri@4ax.com>
Cancel-Lock: sha1:dcPh3wX/nDspikEFxeefuCJGukg=
Xref: g2news2.google.com sci.electronics.design:231661
rec.radio.amateur.homebrew:4490

On 2/24/2011 6:40 PM, FigureItOut wrote:

>> To put this back in context,

>> you said:
>>
>>>> You could manage .3 with the empty tank alone.
>>>>
>
>   And I could.
>
>> And I said:
>>
>>>> Can you back that up with calculations using believable numbers?
>>>

>
>> But I challenged you to prove what you asserted knowing
>> that you could not.
>
>   I do not need to prove a goddamned thing to a retarded twit like you.

Since you can't anyway, that statement is an attempt to show your
superiority in the face of humiliation.

> The Pomegranite retard is my lover, you dumb fuck.
>
>
> I do not need to waste my time on a twit like you. Nor will I.

Good! Then I'm sure you will not waste your time responding to this one.

Yawn

Anyhow, I'm done with you, too.

From -8524144068841332559
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: John - KD5YI <sophi.2@invalid.org>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Thu, 24 Feb 2011 21:51:31 -0600
Organization: A noiseless patient Spider
Lines: 38
Message-ID: <ik7908$d59$1@news.eternal-september.org>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<9fo2m6hrjti4ldr0enenoh2hujl28ecvuq@4ax.com>
<be7d$4d61790b$d8baf3b7$3554@KNOLOGY.NET>
<m0hbm6ltbs2043hv5016guoi15050ksm1g@4ax.com> <ik4hdb$snq$1@news.eternal-september.org> <71jcm61fvo7fgsmcq9o80vh5q8lqj3mcrk@4ax.com>
<ubqcm6tp67e0g89aaot4r3cju4kpslob4v@4ax.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Fri, 25 Feb 2011 03:51:36 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="R1JcZqQrnJVzF0KrDRtdjQ";
     logging-data="13481"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19HSO7yb3SByOrb99z1LkMf"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.13) Gecko/20101207 Thunderbird/3.1.7
In-Reply-To: <ubqcm6tp67e0g89aaot4r3cju4kpslob4v@4ax.com>
Cancel-Lock: sha1:gE9dmCZ4U2sy4oGSWjy2kUsG+RA=
Xref: g2news1.google.com sci.electronics.design:216961 rec.radio.amateur.homebrew:4194

On 2/24/2011 8:23 AM, Pomegranate Bastard wrote:
> On Thu, 24 Feb 2011 04:23:09 -0800, FigureItOut
> <LocusPocus@magicregion.org> wrote:

>
>> On Wed, 23 Feb 2011 20:56:40 -0600, John - KD5YI<sophi.2@invalid.org>
>> wrote:
>>
>>> Can you back that up with calculations using believable numbers?
>>
>>
>> Fuck you, you fucking retard. Did you not read the post? He said that
>> putting the lid on changed the value. You would have to be a complete
>> dolt (you are) to miss that one!
>>
>> Again, come back when you are not being your usual mouthy little bitch
>> self.
>>
>>   Plagiarism? You're an idiot, and a goddamned liar, boy. I was making
>> feedback circuit caps before you even knew what an antenna match was.
>
> So what made you take up pushing a mop?
>
>>
>>   Fuck off, Johnny. Die, Johnny. Die painfully, Johnny. Go mouth
>> someone more deserving of the shit you spew...   your mother.

Pomegranate Bastard - I mistakenly referred to you in this thread in an
unflattering way, as you will eventually see. I regret that reference
and apologize for any embarassment which you certainly do not deserve.

Sorry.

John

From -8162012138301718197
X-Google-Thread: fc2a5,8e9892758d5384ba
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 24 Feb 2011 22:08:02 -0600
Date: Thu, 24 Feb 2011 21:58:16 -0600
From: Paul Probert <paulprobert@sbcglobal.net>
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.2.13) Gecko/20101208 Thunderbird/3.1.7
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Some questions on IF transformers

References: <zQh9p.228282$Ud7.114682@en-nntp-16.dc1.easynews.com>
In-Reply-To: <zQh9p.228282$Ud7.114682@en-nntp-16.dc1.easynews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <pvlj38-qv2.ln1@giganews.com>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
L3VeNm82fS+26JNK37sthEWZtub+tg8U300tTpYl4pY8cefJUH5AATXaHGv+6fTwfrdhW4gVY8dsGVV!
TNlNxk3MOhw+sYOL2Zs6jVWkbQgi3U418fwVMjkPG+NJnkzbe1c=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1939
Xref: g2news1.google.com rec.radio.amateur.homebrew:4195

On 02/23/2011 06:43 PM, Joel Koltner wrote:
>
> 1) The really big 450kHz IF transformers you see in tube sets... why did
> they wind the coils in the form of "pancakes" rather than "the usual
> way" (single-layer coils)? Is it just a consequence of needing lots of
> turns (to get enough magnetizing inductance) but, for the coupling
> coefficient desired, finding that you'd end up with, e.g,. a foot-long
> tranformer if you only used a single layer?

They do this to try to keep the self-resonance of the winding up above
the operating frequency. By spreading the winding out into series
connected pancakes the stray capacitances have a harder time shunting
large inductances. You see this kind of construction on RF chokes too.

Paul Probert

From -1866244377372123644
X-Google-Thread: fc2a5,8e9892758d5384ba
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
news2.arglkargh.de!news-transit.tcx.org.uk!aioe.org!.POSTED!not-for-mail
From: "John J" <John.J@nospam.thanks>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Some questions on IF transformers
Date: Fri, 25 Feb 2011 11:36:25 -0000
Organization: Aioe.org NNTP Server
Lines: 18
Message-ID: <ik848d$13j$1@speranza.aioe.org>
References: <zQh9p.228282$Ud7.114682@en-nntp-16.dc1.easynews.com>
NNTP-Posting-Host: 5thz7nn3C6NE9hIebb1G/w.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
X-RFC2646: Format=Flowed; Original
X-Notice: Filtered by postfilter v. 0.8.2
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.homebrew:4493

"Joel Koltner" wrote

> 1) The really big 450kHz IF transformers you see in tube sets... why did
> they wind the coils in the form of "pancakes" rather than "the usual way"
> (single-layer coils)? Is it just a consequence of needing lots of turns
> (to get enough magnetizing inductance) but, for the coupling coefficient
> desired, finding that you'd end up with, e.g,. a foot-long tranformer if
> you only used a single layer?

See

http://www.crystal-radio.eu/enkoppelfactor.htm

From 4253382994252974048
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
94.75.214.39.MISMATCH!aioe.org!.POSTED!not-for-mail
From: FigureItOut <LocusPocus@magicregion.org>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Fri, 25 Feb 2011 04:47:13 -0800
Organization: Iseeseeyouseesee.org
Lines: 12
Message-ID: <n49fm6ll3r5ajaqr2ibj1jekkpt5ej8m63@4ax.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<9fo2m6hrjti4ldr0enenoh2hujl28ecvuq@4ax.com>
<be7d$4d61790b$d8baf3b7$3554@KNOLOGY.NET>
<m0hbm6ltbs2043hv5016guoi15050ksm1g@4ax.com> <ik4hdb$snq$1@news.eternal-september.org> <71jcm61fvo7fgsmcq9o80vh5q8lqj3mcrk@4ax.com>
<ubqcm6tp67e0g89aaot4r3cju4kpslob4v@4ax.com> <ik7908$d59$1@news.eternal-september.org>
Reply-To: Simon
NNTP-Posting-Host: q/lsrDyVMp/7uX+cbx8qaA.user.speranza.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

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Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Notice: Filtered by postfilter v. 0.8.2
X-Newsreader: Forte Agent 4.2/32.1118
Xref: g2news1.google.com sci.electronics.design:217008
rec.radio.amateur.homebrew:4197

On Thu, 24 Feb 2011 21:51:31 -0600, John - KD5YI <sophi.2@invalid.org>
wrote:

>Pomegranate Bastard - I mistakenly referred to you in this thread in an
>unflattering way, as you will eventually see. I regret that reference
>and apologize for any embarassment which you certainly do not deserve.
>
>Sorry.
>
>John

  He most certainly does deserve a dirt nap.  So do you.


From 4975786396120776714
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
news.astraweb.com!border5.a.newsrouter.astraweb.com!not-for-mail
From: Pomegranate Bastard <pommyB@dsl.pipex.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Fri, 25 Feb 2011 14:33:32 +0000
Message-ID: <r9ffm697m6j53tlsthffneclvr675rb8dp@4ax.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
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<be7d$4d61790b$d8baf3b7$3554@KNOLOGY.NET>
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september.org> <71jcm61fvo7fgsmcq9o80vh5q8lqj3mcrk@4ax.com>
<ik6a24$mk5$1@news.eternal-september.org>
<nbudm6h4skfdff2nnn691ful0gnnijhkri@4ax.com>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 53
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: f3e55011.news.astraweb.com
X-Trace: DXC=G_Nm98BXo;?aTZ9_0GJc??L?0kYOcDh@:1I;RlOV<?X=X?9M5``PQP;
[FFdKo_S2Z88Pjh>bR_Bi7d1e9fj^VFU<6:@J9\h6Y81?C0PS7hGkk>`M2jMRfce=9
Xref: g2news1.google.com sci.electronics.design:217020
rec.radio.amateur.homebrew:4198
```

On Thu, 24 Feb 2011 16:40:58 -0800, FigureItOut
<LocusPocus@magicregion.org> wrote:

>On Thu, 24 Feb 2011 13:03:29 -0600, John - KD5YI <sophi.2@invalid.org>
>wrote:
>
>>On 2/24/2011 6:23 AM, FigureItOut wrote:
>>> On Wed, 23 Feb 2011 20:56:40 -0600, John - KD5YI<sophi.2@invalid.org>
>>> wrote:
>>
>>To put this back in context,
>
> It was never out of context, you retarded fuck.
>
>> you said:
>>
>> >> You could manage .3 with the empty tank alone.
>> >>
>
> And I could.
>
>>And I said:
>>
>>>> Can you back that up with calculations using believable numbers?
>>>
>
> Then, you mouthed off like a little petty bitch with some lame claim.
>You lose. Fuck off. Your mother is a slut.
>
>>I read the post.
>
> Good for you. Stop acting like you didn't then.
>
>> But I challenged you to prove what you asserted knowing
>>that you could not.
>
> I do not need to prove a goddamned thing to a retarded twit like you.
>
>
>   Again, come back when you are not being your usual mouthy little bitch
> self, JW, the fucking total retard.
>
> You're a post-edit little cunt too. The Pomegranite retard is someone
 ^^^^^^^
If you must insult me, at least learn to spell correctly, you
pig-ignorant, illiterate septic sack of shit.

>else, you dumb fuck.
>
> Write your own lines and stop fucking with mine, pussy boy.
>
> Better yet, fuck off and die. I do not need to waste my time on a twit

>like you. Nor will I.

From 4541418778942986820
X-Google-Thread: fc2a5,8e9892758d5384ba
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!newsp.newsguy.com!not-for-mail
From: mzenier@eskimo.com (Mark Zenier)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Some questions on IF transformers
Date: Thu, 24 Feb 2011 15:37:03 GMT
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 45
Message-ID: <ik8l8k01j9a@enews2.newsguy.com>
References: <zQh9p.228282$Ud7.114682@en-nntp-16.dc1.easynews.com>
NNTP-Posting-Host: pabe8d4df7ebcecc0333d1b2b6f8c449429c8f573292d1334d5bb19ac2ec46536.newsdawg.com
Originator: mzenier@eskimo.com (Mark Zenier)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4199

In article <zQh9p.228282$Ud7.114682@en-nntp-16.dc1.easynews.com>,
Joel Koltner <zapwireDASHgroups@yahoo.com> wrote:

>2) I can readily see why you'd want a center-tapped primary, or a primary
>with, say, a tap 10% "up" as a small feedback winding, but why do you get such
>things as an IF transformer with 103 and 50 turns on the primary (on either
>side of the tap) and then 27 turns on the secondary? (E.g.,
>http://www.mouser.com/catalog/specsheets/XC-600014.pdf). None of my books
>address this, and the only thing that looks close on the web is this article:
>http://hem.passagen.se/communication/ifcan.html . Is his conclusion, "by
>tapping the transformer the Q value increases" the main reason?

Tranformers from the 1960's vintage for bipolar transistors were
tapped in strange ways. I don't remember any special use of taps
on tube era stuff.

>3) Sticking a parallel capacitor on the primary to resonate out the
>magnetizing inductance makes sense to me. I'm a little less clear on parallel
>capacitors on both the primary and secondary -- a double-tuned arrangement.
>Hagen's "Radio Frequency Electronics" assigns leakage inductance to the
>secondary and then converts the resonating capacitor in parallel with your
>load resistance back into a series circuit and, voila!, you now have a series
>RLC circuit so clearly bandpass behavior... but this approach implies that you
>could just use a *series* resonating capacitor on the secondary instead. Is
>that correct? (I am aware that there are a handful of commonly used
>transformer equivalent circuit models, you can transform magnetizing or
>leakage inductances and losses from primary to secondary or vice versa at
>will, etc.)

There's a discussion older ARRL handbooks about getting broad bandwidth
with dual tuned over-coupled IF transformers.

>4) Anyone have pointers to good books or articles that ideally discuss some
>actual design examples of the more complicated cases (weird primary turns
>ratios, double-tuned circuits, etc.)? -- The ones I've found so far as the
>simpler single-tuned case, just center-tapped, etc.

Digging out an copy of Terman's _Radio Engineer's Handbook_ (that I
bought at a used bookstore and never got around to reading), it has
a discussion of point 3 in the section on "tuned amplifiers", (which
appears to be what the ARRL was cribbing from).

Mark Zenier mzenier@eskimo.com
Googleproofaddress(account:mzenier provider:eskimo domain:com)

From -6199250703340981128
X-Google-Thread: fc2a5,8e9892758d5384ba
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
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From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <zQh9p.228282$Ud7.114682@en-nntp-16.dc1.easynews.com> <pvlj38-qv2.ln1@giganews.com>
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Lines: 24
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Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Fri, 25 Feb 2011 09:44:11 -0800
Xref: g2news2.google.com rec.radio.amateur.homebrew:4497

"Paul Probert" <paulprobert@sbcglobal.net> wrote in message
news:pvlj38-qv2.ln1@giganews.com...
> On 02/23/2011 06:43 PM, Joel Koltner wrote:

>>
>> 1) The really big 450kHz IF transformers you see in tube sets... why did
>> they wind the coils in the form of "pancakes" rather than "the usual
>> way"?
> They do this to try to keep the self-resonance of the winding up above the
> operating frequency. By spreading the winding out into series connected
> pancakes the stray capacitances have a harder time shunting large
> inductances. You see this kind of construction on RF chokes too.

Ah, clever!

One I was looking at the other day has some fancy weaving involved as well; it
must have been quite an interesting machine that made them.

Poking around You Tube some I see that winding single-layer (no fancy waving)
coils is quite doable at home (the Tesla coil guys are quite into it). It's
pretty slick: http://www.youtube.com/watch?v=N3N-tw6OEXw .

Thanks for the help,
---Joel

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X-Google-Thread: fc2a5,c2fdf0234367314f
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news2.glorb.com!news.astraweb.com!border6.newsrouter.astraweb.com!not-for-mail
From: Pomegranate Bastard <pommyB@dsl.pipex.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Fri, 25 Feb 2011 18:05:09 +0000
Message-ID: <iirfm65a5efjg0g1qr0ekv80lkelvgna70@4ax.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
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<ubqcm6tp67e0g89aaot4r3cju4kpslob4v@4ax.com> <ik7908$d59$1@news.eternal-september.org>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 46
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 6f020643.news.astraweb.com
X-Trace: DXC=`Y77OBG7OnPWIOATn\8amXL?

0kYOcDh@Z:M`8e3iFgZW^fPd>Vd55HXAm=X]i[h;PYSGV^k;a<diZ0iSWBlZL7G_>ieXI=PMS\Re;<U3`D
H`6^
Xref: g2news1.google.com sci.electronics.design:217042
rec.radio.amateur.homebrew:4201

On Thu, 24 Feb 2011 21:51:31 -0600, John - KD5YI <sophi.2@invalid.org>
wrote:

>On 2/24/2011 8:23 AM, Pomegranate Bastard wrote:
>> On Thu, 24 Feb 2011 04:23:09 -0800, FigureItOut
>> <LocusPocus@magicregion.org> wrote:
>>
>>> On Wed, 23 Feb 2011 20:56:40 -0600, John - KD5YI<sophi.2@invalid.org>
>>> wrote:
>>>
>>>> Can you back that up with calculations using believable numbers?
>>>
>>>
>>> Fuck you, you fucking retard. Did you not read the post? He said that
>>> putting the lid on changed the value. You would have to be a complete
>>> dolt (you are) to miss that one!
>>>
>>> Again, come back when you are not being your usual mouthy little bitch
>>> self.
>>>
>>>   Plagiarism? You're an idiot, and a goddamned liar, boy. I was making
>>> feedback circuit caps before you even knew what an antenna match was.
>>
>> So what made you take up pushing a mop?
>>
>>>
>>>   Fuck off, Johnny. Die, Johnny. Die painfully, Johnny. Go mouth
>>> someone more deserving of the shit you spew...   your mother.
>
>
>Pomegranate Bastard - I mistakenly referred to you in this thread in an
>unflattering way, as you will eventually see. I regret that reference
>and apologize for any embarassment which you certainly do not deserve.

It's okay, John. I realised it must have been a mistake.

After all, who wants to be categorised with an utter imbecile like
Nymbecile?

>
>Sorry.
>
>John
>
>
>

From -1687262613309439465
X-Google-Thread: fc2a5,8e9892758d5384ba
X-Google-NewGroupId: yes
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From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <zQh9p.228282$Ud7.114682@en-nntp-16.dc1.easynews.com> <ik848d$13j$1@speranza.aioe.org>
Subject: Re: Some questions on IF transformers
Lines: 26
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
Message-ID: <VCS9p.725707$iV7.263632@en-nntp-15.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Fri, 25 Feb 2011 10:34:27 -0800
Xref: g2news2.google.com rec.radio.amateur.homebrew:4499

"John J" <John.J@nospam.thanks> wrote in message news:ik848d$13j$1@speranza.aioe.org...

> See
> http://www.crystal-radio.eu/enkoppelfactor.htm

Thanks John.

What stymies me about the double-tuned transformer is this: If you look at Hagen's exaplanation for how they can be modeled -- I've stuck a scan here: http://koltner.com/Hagen.png -- he's modeling it as the primary's parallel capacitor is resonating with the magnetizing inductance of the IFT and the secondary's parallel capacitor is resonating with the leakage inductance... and this is then made more obvious if you use the high-Q approximation and transform a parallel RC circuit into a series RC circuit. But if that's the case... doesn't it seem as though the most straightforward way to use an IFT would be to have a parallel capacitor on the primary and a *series* capacitor on the secondary?

I realize that you can move impedances from one side of an IFT to another and change the equivalent circuit model and so on and present numerous different "views" that all end up with the same correct mathematical behavior to model what are really just two coupled inductors, but still... does anyone using a series resonating capacitor on their secondaries?

---Joel

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X-Google-Attributes: gid241b302a50,domainid0,public,usenet
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Path: g2news2.google.com!news2.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-07.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <zQh9p.228282$Ud7.114682@en-nntp-16.dc1.easynews.com> <ik848d$13j$1@speranza.aioe.org> <VCS9p.725707$iV7.263632@en-nntp-15.dc1.easynews.com>
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Message-ID: <PLS9p.414802$Ph5.63504@en-nntp-07.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Fri, 25 Feb 2011 10:43:58 -0800
Xref: g2news2.google.com rec.radio.amateur.homebrew:4500

Answering myself here:

"Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in message news:VCS9p.725707$iV7.263632@en-nntp-15.dc1.easynews.com...

> does anyone using a series resonating capacitor on their secondaries?

Googol books provides some pages from the "Electromagnetic Compatibility Handbook" by Kenneth Kaiser (http://books.google.com/books?id=nZzOAsroBIEC&pg=RA1-PA19&lpg=RA1-PA19) and states:

"There are four different configurations for the double-tuned transformer based on the positions of the capacitors on the primary and secondary sides.

For example, one capacitor can be in series with the primary winding, whereas another capacitor can be in parallel with the secondary winding. A few reasons why one configuration is selected over another will be discussed after a few circuits are analyzed."

...and so on...

This is Good To Know.

---Joel

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From: "John J" <John.J@nospam.thanks>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Some questions on IF transformers
Date: Sat, 26 Feb 2011 07:36:00 -0000
Organization: Aioe.org NNTP Server
Lines: 33
Message-ID: <ikaai5$2bu$1@speranza.aioe.org>
References: <zQh9p.228282$Ud7.114682@en-nntp-16.dc1.easynews.com> <ik848d$13j$1@speranza.aioe.org> <VCS9p.725707$iV7.263632@en-nntp-15.dc1.easynews.com>
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X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.homebrew:4501

"Joel Koltner" wrote

> What stymies me about the double-tuned transformer is this: If you look at Hagen's exaplanation for how they can be modeled -- I've stuck a scan here: http://koltner.com/Hagen.png -- he's modeling it as the primary's parallel capacitor is resonating with the magnetizing inductance of the IFT and the secondary's parallel capacitor is resonating with the leakage inductance... and this is then made more obvious if you use the high-Q approximation and transform a parallel RC circuit into a series RC circuit. But if that's the case... doesn't it seem as though the most straightforward way to use an IFT would be to have a parallel capacitor on

> the primary and a *series* capacitor on the secondary?
>
> I realize that you can move impedances from one side of an IFT to another
> and change the equivalent circuit model and so on and present numerous
> different "views" that all end up with the same correct mathematical
> behavior to model what are really just two coupled inductors, but still...
> does anyone using a series resonating capacitor on their secondaries?

If you use a capacitor in series with the winding to create series resonant circuit, then the impedance at resonance will be low.

For a tube IF, you really want high impedances at resonance.

In the plate circuit this is to minimise current draw.

The grid input of the preceeding stage is high impedance and is voltage driven, therefore a parallel tuned circuit is ideal.

So hence the use of dual parallel tuned circuits.

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feeder1-1.proxad.net!nntpfeed.proxad.net!news.dougwise.org!aioe.org!.POSTED!not-
for-mail
From: "John J" <John.J@nospam.thanks>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Some questions on IF transformers
Date: Sat, 26 Feb 2011 08:12:42 -0000
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Lines: 43
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X-RFC2646: Format=Flowed; Original
X-Notice: Filtered by postfilter v. 0.8.2
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X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:4205
```

"John J" wrote
>
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>> here: http://koltner.com/Hagen.png -- he's modeling it as the primary's
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>
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>
> For a tube IF, you really want high impedances at resonance.
>
> In the plate circuit this is to minimise current draw.
>
> The grid input of the preceeding stage is high impedance and is voltage
> driven, therefore a parallel tuned circuit is ideal.
>
> So hence the use of dual parallel tuned circuits.

I should have added

If you want to see an application for series tuned curcuits, although not in
a IF application, have a look at the base circuit of almost any VHF
single ended RF power amplifier using a bipolar transistor. The input
impedance of such amps is low hence the appropriate use of a series tuned
circuit.

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news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news2
From: Bill M <radioexray@geeeemail.com>

Newsgroups: rec.radio.amateur.homebrew
Subject: Kokusai filter
Date: Sun, 27 Feb 2011 10:36:14 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 13
Message-ID: <ikduie0uid@news2.newsguy.com>
NNTP-Posting-Host: pd09c6e9059e6f30b00296d5a0addf59048d11b930344b91a.newsdawg.com
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User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
X-Antivirus: avast! (VPS 110227-0, 02/27/2011), Outbound message
X-Antivirus-Status: Clean
Xref: g2news1.google.com rec.radio.amateur.homebrew:4206

Hi,

I recently re-found a homebrew receiver that I built back in the 80s and am going to try to get it going again.

My question is regarding the Kokusai MF-455ZU-21H mechanical filter. This was a popular filter in its day and I wonder how well they hold up over time? I know some of these things had foam that melts/disintegrates into mush. Any comments or observation on this particular type would be appreciated.

Thanks,
Bill WX4A/KP4

From 3887649637878348716
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X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
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85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: <me9@privacy.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kokusai filter
Date: Sun, 27 Feb 2011 22:38:02 GMT
Organization: Home
Lines: 22
Sender: <brian13434@lycos.co.uk>
Message-ID: <51AC530722%brian13434@lycos.co.uk>
References: <ikduie0uid@news2.newsguy.com>
Reply-To: <brian13434@lycos.co.uk>
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logging-data="26961"; mail-complaints-to="abuse@eternal-september.org";
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Xref: g2news2.google.com rec.radio.amateur.homebrew:4504

On 27 Feb,
Bill M <radioexray@geeeemail.com> wrote:

> My question is regarding the Kokusai MF-455ZU-21H mechanical filter.
> This was a popular filter in its day and I wonder how well they hold up
> over time? I know some of these things had foam that
> melts/disintegrates into mush. Any comments or observation on this
> particular type would be appreciated.

I had one in my KW2000A. It lost sensitivity and drive due to filter degrading. I unsoldered the can and removed the goo that the foam had become, much improving performance but it's still well below par. The transducers or transformers at the ends of the filter are easily damaged and also likely to fail. Somewhere on the internet are details for refurb. There was also an article years ago on upgrading to a crystal filter but I can no longer find it. I've now given up on that rig and gone to an SDR one.

--
G8AOE
Change lycos to yahoo to reply

From -4610391159051063872
X-Google-Thread: fc2a5,1f37f7209e1fd581
X-Google-NewGroupId: yes
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From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kokusai filter
Date: Sun, 27 Feb 2011 18:05:32 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 29
Message-ID: <ikeosv02ij5@news5.newsguy.com>
References: <ikduie0uid@news2.newsguy.com> <51AC530722%brian13434@lycos.co.uk>
NNTP-Posting-Host: pac06a38c2307f52ad166a4fce2aaba9d920a1cfb7634b870.newsdawg.com
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Xref: g2news1.google.com rec.radio.amateur.homebrew:4208

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> transformers at the ends of the filter are easily damaged and also likely to
> fail. Somewhere on the internet are details for refurb. There was also an
> article years ago on upgrading to a crystal filter but I can no longer find
> it. I've now given up on that rig and gone to an SDR one.
>
>
>

Thanks Brian. I was afraid of that. I never had the radio up to 100%
originally. It was a homebrew and I guess its like a new project
nowadays with all the pieces there to troubleshoot. Its not a
'necessary' rig but I'd sure like to get it in shape for old times
sake...if I can. It was a learning experience before - some things
don't change, do they?

Regards,
Bill

From -4935353868132930222
X-Google-Thread: fc2a5,1f37f7209e1fd581
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news.kjsl.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kokusai filter
Date: Sun, 27 Feb 2011 22:31:32 -0500
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 24
Sender: et472@201-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.1102272220110.5358@darkstar.example.net>
References: <ikduie0uid@news2.newsguy.com>
NNTP-Posting-Host: 201-215-235-64-ppp.3menatwork.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1298863955 3109 64.235.215.201 (28 Feb 2011 03:32:35 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 28 Feb 2011 03:32:35 GMT

In-Reply-To: <ikduie0uid@news2.newsguy.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:4506

On Sun, 27 Feb 2011, Bill M wrote:

> Hi,
>
> I recently re-found a homebrew receiver that I built back in the 80s and am going to try to get it going again.
>
> My question is regarding the Kokusai MF-455ZU-21H mechanical filter. This was a popular filter in its day and I wonder how well they hold up over time? I know some of these things had foam that melts/disintegrates into mush. Any comments or observation on this particular type would be appreciated.
>

I don't know which filters had the foam problem, all I remember hearing about is "Japanese mechanical filters".

But they have been discussed before, I think here but maybe in the boatanchors newsgroup. I can almost picture someone detailing how to renovate them. I just tried <"mechanical filter" foam> and that gets some relevant hits, but apparently aquariums use "mechanical filters" so there must be some word that would limit it to radio. One post had a link to a webpage, but the webpage is no longer there, so doing a more careful search of the mewsgroup archives and then a websearch might help.

Michael VE2BVW

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nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 27 Feb 2011 23:10:55 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Some questions on IF transformers
Newsgroups: rec.radio.amateur.homebrew
References: <zQh9p.228282$Ud7.114682@en-nntp-16.dc1.easynews.com>
User-Agent: Pan/0.133 (House of Butterflies)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <Tb2dnec9C7f9s_bQnZ2dnUVZ_uqdnZ2d@web-ster.com>
Date: Sun, 27 Feb 2011 23:10:56 -0600
Lines: 67
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X-Trace: sv3-
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MQEdRRfDYaby0C1dzLxpg09G7N7/JzZbe2cOs9RiXf8IspFLdlu1XejrRPzyXc2le9MofGUfgVQz!

ShemJHNaNq7Wxoc=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 4546
Xref: g2news1.google.com rec.radio.amateur.homebrew:4210

On Wed, 23 Feb 2011 16:43:10 -0800, Joel Koltner wrote:

> I graduated from college back in the 1994, and even then we were
> admonished to avoid magnetics whenever possible. Of course, these days
> I know better, but as a result my academic coverage of IF transformers
> was non-existant.
>
> I'm now trying to make up for that transgression. :-)
>
> I've done a fair amount of reading and have a good understanding on how
> IF transformers work, how they should be modeled, how to build them,
> etc. (Most of the books that address this in detail are from the 1970s
> or older, it seems...) I still have a few questions, though, that I'm
> hoping a few of the older reads could help me out on. They are:
>
> 1) The really big 450kHz IF transformers you see in tube sets... why did
> they wind the coils in the form of "pancakes" rather than "the usual
> way" (single-layer coils)? Is it just a consequence of needing lots of
> turns (to get enough magnetizing inductance) but, for the coupling
> coefficient desired, finding that you'd end up with, e.g,. a foot-long
> tranformer if you only used a single layer?

Googling "Pi-wound coil" may help. It was to reduce shunt capacitance,
as mentioned.

> 2) I can readily see why you'd want a center-tapped primary, or a
> primary with, say, a tap 10% "up" as a small feedback winding, but why
> do you get such things as an IF transformer with 103 and 50 turns on the
> primary (on either side of the tap) and then 27 turns on the secondary?
> (E.g., http://www.mouser.com/catalog/specsheets/XC-600014.pdf). None
> of my books address this, and the only thing that looks close on the web
> is this article: http://hem.passagen.se/communication/ifcan.html . Is
> his conclusion, "by tapping the transformer the Q value increases" the
> main reason?

> 3) Sticking a parallel capacitor on the primary to resonate
> out the magnetizing inductance makes sense to me. I'm a little less
> clear on parallel capacitors on both the primary and secondary -- a
> double-tuned arrangement. Hagen's "Radio Frequency Electronics" assigns
> leakage inductance to the secondary and then converts the resonating
> capacitor in parallel with your load resistance back into a series
> circuit and, voila!, you now have a series RLC circuit so clearly
> bandpass behavior... but this approach implies that you could just use a
> *series* resonating capacitor on the secondary instead. Is that
> correct? (I am aware that there are a handful of commonly used

> transformer equivalent circuit models, you can transform magnetizing or
> leakage inductances and losses from primary to secondary or vice versa
> at will, etc.)

Are you talking transistor IF transformers, with one slug each, or tube-type, with two? Two-slug IF transformers, with lightly coupled and independently tuned coils, gave you two filter sections in one can.

> 4) Anyone have pointers to good books or articles that ideally discuss
> some actual design examples of the more complicated cases (weird primary
> turns ratios, double-tuned circuits, etc.)? -- The ones I've found so
> far as the simpler single-tuned case, just center-tapped, etc.

Old radio texts. If you still get up to Portland from time to time, dig through Powell's Technical books.

What are you trying to do? There's good reason for not wanting to have a circuit with a bazillion tweaks that all have to be right for the thing to be in tune.

--
http://www.wescottdesign.com

From -6737816651220159848
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From: muthu raja <ramsh03@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: new
Date: Mon, 28 Feb 2011 03:39:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 5
Message-ID: <1627eb3d-b5e2-4511-83ed-7710d8c1effd@a21g2000prj.googlegroups.com>
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Injection-Info: a21g2000prj.googlegroups.com; posting-host=49.200.19.79; posting-account=G4zRfwoAAACMXvfSnJylQGc83J_yjpfJ
User-Agent: G2/1.0
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Xref: g2news1.google.com rec.radio.amateur.homebrew:4211

http://raja-forex.blogspot.com/

http://ajith-raja.blogspot.com/
http://rajini-raja.blogspot.com/
http://raja-dna.blogspot.com/
http://nanotec-raja.blogspot.com/

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From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <zQh9p.228282$Ud7.114682@en-nntp-16.dc1.easynews.com>
<Tb2dnec9C7f9s_bQnZ2dnUVZ_uqdnZ2d@web-ster.com>
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Lines: 40
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
Message-ID: <wTSap.459883$ZM.255321@en-nntp-02.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Mon, 28 Feb 2011 11:41:15 -0800
Xref: g2news1.google.com rec.radio.amateur.homebrew:4212
```

Hi Tim,

"Tim Wescott" <tim@seemywebsite.com> wrote in message
news:Tb2dnec9C7f9s_bQnZ2dnUVZ_uqdnZ2d@web-ster.com...

> Are you talking transistor IF transformers, with one slug each, or tube-
> type, with two?

One slug each. I hadn't remembered two two-slug types, but now that I think about it, I think I have seen them.

> Old radio texts. If you still get up to Portland from time to time, dig
> through Powell's Technical books.

Good idea, will do.

> What are you trying to do? There's good reason for not wanting to have a
> circuit with a bazillion tweaks that all have to be right for the thing
> to be in tune.

Yeah, although it's kinda a sad commentary that many an "FM receiver" today doesn't have a tuned front end and, as such, actually performs rather wose than radios from 30 years ago now, you know?

As for what I'm trying to do... mostly just fully understand how the cheap little transistor radios they made up until a decade or so ago operated; I sure couldn't have designed one at the point I graduated from college, and these days I finally feel as though I'd have a decent shot at it. (On the other hand, I did feel I could have designed a 6502 when I graduated from college, and then some fancier superscalar processor by the time I finished grad school -- so it's not like I didn't get anything out of it.)

(On the other hand, I *have* designed various radio transmitters and receivers that work well, they were just done more at the MMIC/IC/MiniCircuits-parts level rather than the "discrete transistor/coupled coil" level -- you know, the kind of designs industry will actually *pay* you to do. :-) You probably don't do many PID loops with op-amps anymore I expect?)

Thanks for the help,
---Joel

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nntp.giganews.com!news-out.readnews.com!transit3.readnews.com!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1296543600@panix.com>
Followup-To: poster
```

Date: 1 Mar 2011 02:00:02 -0500
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Apr 2011 03:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1298962801@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1298962803 7151 166.84.1.2 (1 Mar 2011 07:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 1 Mar 2011 07:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
Xref: g2news1.google.com rec.radio.amateur.antenna:20648 rec.radio.amateur.dx:900 rec.radio.amateur.equipment:2520 rec.radio.amateur.homebrew:4213 rec.radio.amateur.misc:5942 rec.radio.amateur.policy:29682 rec.radio.amateur.space:454 rec.radio.info:2144

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

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From 2339627980783028066
X-Google-Thread: fc2a5,8901f0d5cad3f69f,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
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From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT VIDEOS BULK SEXY PHOTOS
Date: Tue, 1 Mar 2011 01:13:51 -0800 (PST)
Organization: http://groups.google.com
Lines: 60
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Mime-Version: 1.0
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NNTP-Posting-Date: Tue, 1 Mar 2011 09:13:56 +0000 (UTC)
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 Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4511
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ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
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http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

for more hot videos

http://videosonblog.blogspot.com/2010/11/masala-videos.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

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news.level3.com!bloom-beacon.mit.edu!micro-heart-of-gold.mit.edu!
nntp.club.cc.cmu.edu!feeder.erje.net!border3.nntp.ams.giganews.com!
Xl.tags.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!
local2.nntp.ams.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 01 Mar 2011 11:07:47 -0600
From: vu2nan <vu2nan.7b2de98@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Standard 7 MHz QRP CW Rig
Date: Tue, 1 Mar 2011 12:02:23 +0000
Message-ID: <vu2nan.7b2de98@radiobanter.com>
Organization: RadioBanter.com
Lines: 13
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-I2NTn0o95rtVDB3nQQlFbTFVqezxgbIfsPPGbpyRY82O1bu49561yMNswlNoxy9bu8/
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vIN30HY0WdmdQqUQ/E!vBXk
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 7
X-Original-Bytes: 1013
Xref: g2news2.google.com rec.radio.amateur.homebrew:4512
```

Here's info on my link-coupled 7 MHz QRP CW Rig.

http://tinyurl.com/6jr4sck

73

Nandu.

--
vu2nan

```
From -7666944778774983285
```

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From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.13) Gecko/20101208 Thunderbird/3.1.7
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Standard 7 MHz QRP CW Rig
References: <vu2nan.7b2de98@radiobanter.com>
In-Reply-To: <vu2nan.7b2de98@radiobanter.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 15
Message-ID: <hZqbp.23888$YL7.9183@newsfe03.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Wed, 02 Mar 2011 12:45:01 UTC
Organization: TeraNews.com
Date: Wed, 02 Mar 2011 06:45:00 -0600
Xref: g2news1.google.com rec.radio.amateur.homebrew:4216

On 03/01/2011 06:02 AM, vu2nan wrote:
> Here's info on my link-coupled 7 MHz QRP CW Rig.
>
> http://tinyurl.com/6jr4sck
>
> 73
>
> Nandu.
>
>
>
>


where's the 6AG7?   :)


From 3186965739959971526
X-Google-Thread: fc2a5,2788b2c2e7b831aa
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!k10g2000prh.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Standard 7 MHz QRP CW Rig
Date: Wed, 2 Mar 2011 05:54:02 -0800 (PST)
```

```
Organization: http://groups.google.com
Lines: 25
Message-ID: <423fd3c6-52fc-4b9c-85f2-30c8e039b025@k10g2000prh.googlegroups.com>
References: <vu2nan.7b2de98@radiobanter.com> <hZqbp.23888$YL7.9183@newsfe03.iad>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1299074043 28971 127.0.0.1 (2 Mar 2011 13:54:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 2 Mar 2011 13:54:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k10g2000prh.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1;
 Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
 3.0.30729; MAAU; .NET4.0C; InfoPath.3; MAAU),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4514
```

On Mar 2, 7:45=A0am, philo <ph...@privacy.not> wrote:
> On 03/01/2011 06:02 AM, vu2nan wrote:
>
> > Here's info on my link-coupled 7 MHz QRP CW Rig.
>
> >http://tinyurl.com/6jr4sck
>
> > 73
>
> > Nandu.
>
> where's the 6AG7? =A0 :)

Hey OT;

I built this thing back in 1969 when I used to make a living selling
6AG7's
'Cept my osc used a bipolar and the output I had an antenna tuner with
parts from a Multi-Elmac. Oh yeah I used a 8"x11" piece of masonite
with fahnstock clips to connect everything, I carried it in a
looseleaf binder, was the sweetest QRP rig I ever built. Tanks for the
memories.

73
de n8zu

```
From 6696215959915738462
X-Google-Thread: fc2a5,bdfe5957db06d9b4,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
```

```
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: "Bob" <someone@somewhere.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Old PI network coil
Date: Wed, 2 Mar 2011 17:21:58 -0500
Organization: A noiseless patient Spider
Lines: 11
Message-ID: <ikmfu6$1js$1@news.eternal-september.org>
Injection-Date: Wed, 2 Mar 2011 22:21:58 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="z5mwaB7sJffY/4BetvpvpA";
     logging-data="1660"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+c1LOkz0dwGUdnuL1CE51p"
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:LGIb6bBqq+DscnxxXbPpSCo8NiY=
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.homebrew:4516

Looking for any information on an Illumitronx Pi network "PI air dux" , part
number 1212D6 like power ratings, recommended taps / tube, etc. Looks like
#12 silver plated wire.
Not sure of the spelling but it looks to be Illumitronx. Google turned up
nothing.
Bob
KB8TL

Yes, I know how to measure or calculate inductance of an air wound coil




From 3434712584523264956
X-Google-Thread: fc2a5,bdfe5957db06d9b4
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: "Bob" <someone@somewhere.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Old PI network coil
Date: Wed, 2 Mar 2011 17:38:42 -0500
Organization: A noiseless patient Spider
Lines: 17
Message-ID: <ikmgtl$ch6$1@news.eternal-september.org>
References: <ikmfu6$1js$1@news.eternal-september.org>
Injection-Date: Wed, 2 Mar 2011 22:38:45 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="z5mwaB7sJffY/4BetvpvpA";
     logging-data="12838"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX199NIMYEqltwRAGlueGN9rD"
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:OPIGfuJlZx++Fi9+Q6Qha+I+Wfs=
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.homebrew:4517

Never mind, found it!
http://glowbugs.net/AirDux.pdf

"Bob" <someone@somewhere.com> wrote in message
news:ikmfu6$1js$1@news.eternal-september.org...
> Looking for any information on an Illumitronx Pi network "PI air dux" ,
> part number 1212D6 like power ratings, recommended taps / tube, etc. Looks
> like #12 silver plated wire.
> Not sure of the spelling but it looks to be Illumitronx. Google turned up
> nothing.
> Bob
> KB8TL
>
> Yes, I know how to measure or calculate inductance of an air wound coil
>




From -2350309862824949452
X-Google-Thread: fc2a5,2788b2c2e7b831aa
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe04.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.13) Gecko/20101208
Thunderbird/3.1.7
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Standard 7 MHz QRP CW Rig
References: <vu2nan.7b2de98@radiobanter.com> <hZqbp.23888$YL7.9183@newsfe03.iad>
<423fd3c6-52fc-4b9c-85f2-30c8e039b025@k10g2000prh.googlegroups.com>
In-Reply-To: <423fd3c6-52fc-4b9c-85f2-30c8e039b025@k10g2000prh.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 32
Message-ID: <pIzbp.4900$Rj2.4670@newsfe04.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Wed, 02 Mar 2011 22:41:25 UTC
Organization: TeraNews.com
Date: Wed, 02 Mar 2011 16:41:25 -0600
```

```
Xref: g2news2.google.com rec.radio.amateur.homebrew:4518

On 03/02/2011 07:54 AM, raypsi wrote:
> On Mar 2, 7:45 am, philo<ph...@privacy.not>  wrote:
>> On 03/01/2011 06:02 AM, vu2nan wrote:
>>
>>> Here's info on my link-coupled 7 MHz QRP CW Rig.
>>
>>> http://tinyurl.com/6jr4sck
>>
>>> 73
>>
>>> Nandu.
>>
>> where's the 6AG7?   :)
>
> Hey OT;
>
> I built this thing back in 1969 when I used to make a living selling
> 6AG7's
> 'Cept my osc used a bipolar and the output I had an antenna tuner with
> parts from a Multi-Elmac. Oh yeah I used a 8"x11" piece of masonite
> with fahnstock clips to connect everything, I carried it in a
> looseleaf binder, was the sweetest QRP rig I ever built. Tanks for the
> memories.
>
> 73
> de n8zu



Yeah  that 6AG7 was a great tube

still is actually!


From -7650329814839624189
X-Google-Thread: fc2a5,bdfe5957db06d9b4
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news2.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-12.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <ikmfu6$1js$1@news.eternal-september.org> <ikmgtl$ch6$1@news.eternal-
september.org>
Subject: Re: Old PI network coil
Lines: 13
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
Message-ID: <bwFbp.678382$Bh.264633@en-nntp-12.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Wed, 2 Mar 2011 21:17:57 -0800
Xref: g2news1.google.com rec.radio.amateur.homebrew:4223
```

"Bob" <someone@somewhere.com> wrote in message
news:ikmgtl$ch6$1@news.eternal-september.org...

> Never mind, found it!
> http://glowbugs.net/AirDux.pdf

Would it be a correct assumption that the vari-pitch Air-Dix coils were used with whatever-the-then-common variable capacitor was to achieve linear tuning (...I realize that over time capacitors were purposely made to have non-linear capacitnace with respect to dial position to achieve this as well...)? Or something else?

I like the 1957 prices. :-)

```
From 4898324794611955958
X-Google-Thread: fc2a5,8e9892758d5384ba
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 03 Mar 2011 00:00:00 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Some questions on IF transformers
Newsgroups: rec.radio.amateur.homebrew
References: <zQh9p.228282$Ud7.114682@en-nntp-16.dc1.easynews.com>
     <Tb2dnec9C7f9s_bQnZ2dnUVZ_uqdnZ2d@web-ster.com>
     <wTSap.459883$ZM.255321@en-nntp-02.dc1.easynews.com>
User-Agent: Pan/0.133 (House of Butterflies)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <ENKdnYlZCN79s_LQnZ2dnUVZ_s2dnZ2d@web-ster.com>
Date: Thu, 03 Mar 2011 00:00:00 -0600
Lines: 59
X-Usenet-Provider: http://www.giganews.com
```

X-Trace:
sv3-4qQw4qRsHvMeh+UcVh1MRhGNeG3znMZkV6pv1xCJsaD6zJpJIMFjrgdnn+cqKYSR7PQRJ5+VbOnXUp
Z!Rc/3hyM8CdKIfPq7OLaSxtroO4DExyZ4E0nvlckHtdbLEcCufL0S6AbhklLdKOrqQGTa9TL8yeZD!
9c1f8UQwka5LWC8=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 3840
Xref: g2news1.google.com rec.radio.amateur.homebrew:4224

On Mon, 28 Feb 2011 11:41:15 -0800, Joel Koltner wrote:

> Hi Tim,
>
> "Tim Wescott" <tim@seemywebsite.com> wrote in message
> news:Tb2dnec9C7f9s_bQnZ2dnUVZ_uqdnZ2d@web-ster.com...
>> Are you talking transistor IF transformers, with one slug each, or
>> tube- type, with two?
>
> One slug each. I hadn't remembered two two-slug types, but now that I
> think about it, I think I have seen them.
>
>> Old radio texts. If you still get up to Portland from time to time,
>> dig through Powell's Technical books.
>
> Good idea, will do.
>
>> What are you trying to do? There's good reason for not wanting to have
>> a circuit with a bazillion tweaks that all have to be right for the
>> thing to be in tune.
>
> Yeah, although it's kinda a sad commentary that many an "FM receiver"
> today doesn't have a tuned front end and, as such, actually performs
> rather wose than radios from 30 years ago now, you know?
>
> As for what I'm trying to do... mostly just fully understand how the
> cheap little transistor radios they made up until a decade or so ago
> operated; I sure couldn't have designed one at the point I graduated
> from college, and these days I finally feel as though I'd have a decent
> shot at it. (On the other hand, I did feel I could have designed a 6502
> when I graduated from college, and then some fancier superscalar
> processor by the time I finished grad school -- so it's not like I
> didn't get anything out of it.)
>
> (On the other hand, I *have* designed various radio transmitters and
> receivers that work well, they were just done more at the
> MMIC/IC/MiniCircuits-parts level rather than the "discrete
> transistor/coupled coil" level -- you know, the kind of designs industry
> will actually *pay* you to do. :-) You probably don't do many PID loops
> with op-amps anymore I expect?)

Does Mouser still sell them?

The point of the IF transformer was twofold: to provide selectivity, and to give a good impedance match between stages. I think there must have been a standard receiver design, as there just seemed to be one choice for each coil -- this in spite of the fact that as soon as you start juggling feedback and/or standing currents, you change the impedances, and therefor the required transformer.

I think if I were going to design a broadcast-band receiver, I wouldn't just re-do the old schematic from 1960 -- I'd start from a clean sheet of paper, and see where I could go from there. (Actually, I think the first thing that'd go onto that clean sheet of paper would be an ADC -- I'm a luddite in a lot of ways, but not in how I'd like to see a receiver laid out).

--
http://www.wescottdesign.com

From -1314139917205320737
X-Google-Thread: fc2a5,2788b2c2e7b831aa
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!goblin3!gin-ad1-unet1.teleglobe.net!goblin1!goblin.stu.neva.ru!feeder.news-service.com!ecngs!feeder.ecngs.de!Xl.tags.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!local2.nntp.ams.giganews.com!nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 03 Mar 2011 05:08:08 -0600
From: vu2nan <vu2nan.7b52d39@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Standard 7 MHz QRP CW Rig
Date: Thu, 3 Mar 2011 07:17:49 +0000
Message-ID: <vu2nan.7b52d39@radiobanter.com>
Organization: RadioBanter.com
References: <vu2nan.7b2de98@radiobanter.com> <hZqbp.23888$YL7.9183@newsfe03.iad> <423fd3c6-52fc-4b9c-85f2-30c8e039b025@k10g2000prh.googlegroups.com> <pIzbp.4900$Rj2.4670@newsfe04.iad>
Lines: 48
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-KfKmCTBMf0GwtaqwSwfH+EdGJoBcoo6zpJoJA1rioyoM8RV9cH65CF7h/ogZZn2TubRsXZzfz+yN3ed!nWdBeZAZGHKZdYWd57bResGDOFU0UjV6PW1kWLoP5euhadscZC1bltunx5QM2m2IQ21n9gaaY/s/!WdZH
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Lines: 41
X-Original-Bytes: 2023
Xref: g2news2.google.com rec.radio.amateur.homebrew:4522

philo;734812 Wrote:
> On 03/02/2011 07:54 AM, raypsi wrote:-
> On Mar 2, 7:45 am, philoph...@privacy.not wrote:-
> On 03/01/2011 06:02 AM, vu2nan wrote:
> -
> Here's info on my link-coupled 7 MHz QRP CW Rig.-
> -
> http://tinyurl.com/6jr4sck-
> -
> 73-
> -
> Nandu.-
>
> where's the 6AG7?   :)-
>
> Hey OT;
>
> I built this thing back in 1969 when I used to make a living selling
> 6AG7's
> 'Cept my osc used a bipolar and the output I had an antenna tuner with
> parts from a Multi-Elmac. Oh yeah I used a 8"x11" piece of masonite
> with fahnstock clips to connect everything, I carried it in a
> looseleaf binder, was the sweetest QRP rig I ever built. Tanks for the
> memories.
>
> 73
> de n8zu-
>
>
>
> Yeah that 6AG7 was a great tube
>
> still is actually!

Got nostalgic too!

http://nandustips.blogspot.com/2011/02/my-first-hf-transmitter.html

73

Nandu.

--
vu2nan

From -4385321861214033473
X-Google-Thread: fc2a5,8e9892758d5384ba

```
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-11.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <zQh9p.228282$Ud7.114682@en-
nntp-16.dc1.easynews.com><Tb2dnec9C7f9s_bQnZ2dnUVZ_uqdnZ2d@web-
ster.com><wTSap.459883$ZM.255321@en-nntp-02.dc1.easynews.com>
<ENKdnYlZCN79s_LQnZ2dnUVZ_s2dnZ2d@web-ster.com>
Subject: Re: Some questions on IF transformers
Lines: 59
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="UTF-8";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
Message-ID: <iVQbp.714028$pX3.31988@en-nntp-11.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Thu, 3 Mar 2011 10:15:42 -0800
Xref: g2news2.google.com rec.radio.amateur.homebrew:4524
```

"Tim Wescott" <tim@seemywebsite.com> wrote in message
news:ENKdnYlZCN79s_LQnZ2dnUVZ_s2dnZ2d@web-ster.com...

> Does Mouser still sell them?

Somewhat surprisingly, yes, they do. (Although of the many hundreds they have listed in their system, it's only something like a couple dozen they actually have stock of.)

> The point of the IF transformer was twofold: to provide selectivity, and to give a good impedance match between stages. I think there must have been a standard receiver design, as there just seemed to be one choice for each coil -- this in spite of the fact that as soon as you start juggling feedback and/or standing currents, you change the impedances, and therefor the required transformer.

Agreed -- and I additionally suspect that many people who made those receivers didn't necessarily understand the design itself that well. I.e., if it basically worked and wasn't clearly deaf, it became a product -- few if any AM/FM receivers found on the shelves of, e.g., Sears listed things like their sensitivity, adjacent channel rejection, etc. (From the flip side, though, I suppose that's one of the things the FCC did: Coordinated frequencies and power levels such that just about any radio would work "reasonably" well; it's a very different market from, say, amateur radio where there's little or no coordination of these parameters and the customer may very well want to try to listen to some QRP station on 14.15MHz while there's some big gun blasting away on 14.14MHz...)

> I think if I were going to design a broadcast-band receiver, I wouldn't
> just re-do the old schematic from 1960 -- I'd start from a clean sheet of
> paper, and see where I could go from there.

I agree insofar as the actual design goes, but I like to study these older technologies because I think it's all too easy to not realize just how good the performance of some of the old designs were (for your new design you'd like to start with specs that are hopefully some improvement or at least as good as the old ones...), and also because a lot of the same *techniques* can be applied to modern designs just as well as they could to old ones (e.g., varactor tuning is just an evolution of mechanical tuning, neutralization applies just as much to BJTs as it does to tubes, etc.).

> (Actually, I think the first
> thing that'd go onto that clean sheet of paper would be an ADC -- I'm a
> luddite in a lot of ways, but not in how I'd like to see a receiver laid
> out).

That works, but consider that if you digitize the entire broadcast FM band at once (all 20MHz of it), compared to a $20 superhet receiver:

-- Your weak signal sensitivity may be worse, since your dynamic range is spread across the entire band rather than just what'll fit through an IF filter.
-- You'll likely suck rather more power from a battery.
-- It'll probably cost more.
-- For the channels you can receive well, you'll have infinitely more options on being able to reduce noise, change your audio bandwidth, recovery stereo, decode RDS, an so on. :-)

---Joel

From 4593923351258906668
X-Google-Thread: fc2a5,bdfe5957db06d9b4
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!o21g2000prh.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Old PI network coil
Date: Thu, 3 Mar 2011 12:34:02 -0800 (PST)
Organization: http://groups.google.com

Lines: 36
Message-ID: <c08f44b1-2752-4fd1-b2f6-6636d56b2c7b@o21g2000prh.googlegroups.com>
References: <ikmfu6$1js$1@news.eternal-september.org> <ikmgtl$ch6$1@news.eternal-september.org>
 <bwFbp.678382$Bh.264633@en-nntp-12.dc1.easynews.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1299184442 8393 127.0.0.1 (3 Mar 2011 20:34:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 3 Mar 2011 20:34:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o21g2000prh.googlegroups.com; posting-host=192.25.240.225;
posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.14)
 Gecko/20110218 Firefox/3.6.14,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4228

On Mar 2, 9:17=A0pm, "Joel Koltner" <zapwireDASHgro...@yahoo.com> wrote:
> "Bob" <some...@somewhere.com> wrote in message
>
> news:ikmgtl$ch6$1@news.eternal-september.org...
>
> > Never mind, found it!
> >http://glowbugs.net/AirDux.pdf
>
> Would it be a correct assumption that the vari-pitch Air-Dix coils were u=
sed
> with whatever-the-then-common variable capacitor was to achieve linear tu=
ning
> (...I realize that over time capacitors were purposely made to have non-l=
inear
> capacitnace with respect to dial position to achieve this as well...)? =
=A0Or
> something else?
>
> I like the 1957 prices. :-)

No, since the inductance, however it's achieved (that is, whether the coil is one constant pitch or multiple pitches or continuously variable pitch), is constant for a given switch setting. The reason for the "variable" pitch in a tapped PI network coil is so that the lower inductances for the higher frequencies don't end up being coils that are very short compared with their diameter. A good way to put it is perhaps that the unloaded coil Q is more constant over the various bands, if you use a larger pitch (wider spacing) for the coil section that will remain unshorted on the higher frequency bands.

Cheers,
Tom

(Yeah, and I like 1957 prices for cars, houses, gas, bread,
coffee, ... -- but I like 2011 prices for what you get in consumer
electronics, for sure!)

From 8036197665571O196
X-Google-Thread: fc2a5,bdfe5957db06d9b4
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-08.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <ikmfu6$1js$1@news.eternal-september.org> <ikmgtl$ch6$1@news.eternal-september.org> <bwFbp.678382$Bh.264633@en-nntp-12.dc1.easynews.com> <c08f44b1-2752-4fd1-b2f6-6636d56b2c7b@o21g2000prh.googlegroups.com>
Subject: Re: Old PI network coil
Lines: 25
MIME-Version: 1.0
Content-Type: text/plain;
format=flowed;
charset="iso-8859-1";
reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
Message-ID: <%RUbp.274465$UC6.200657@en-nntp-08.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Thu, 3 Mar 2011 14:45:13 -0800
Xref: g2news1.google.com rec.radio.amateur.homebrew:4229

"K7ITM" <k7itm@msn.com> wrote in message
news:c08f44b1-2752-4fd1-b2f6-6636d56b2c7b@o21g2000prh.googlegroups.com...
>No, since the inductance, however it's achieved (that is, whether the
>coil is one constant pitch or multiple pitches or continuously
>variable pitch), is constant for a given switch setting. The reason
>for the "variable" pitch in a tapped PI network coil is so that the
>lower inductances for the higher frequencies don't end up being coils
>that are very short compared with their diameter.

Ah, thanks Tom! That makes a lot of sense.

> (Yeah, and I like 1957 prices for cars, houses, gas, bread,
> coffee, ... -- but I like 2011 prices for what you get in consumer
> electronics, for sure!)

There were scans on alt.binaries.pictures.radio, I think it was, from the WWII era where Admiral Radio had these futuristic drawings of what the radio and TV of tomorrow would look like, assuring you that's what they'd be bringing you once the war was over and their factories could be put back to such uses: The picture shows a projection screen that looks to be all of 25" or so along with a projector in the center of the couch that's the size of a large dog. So they did have the right idea, just the wrong sense of scale. :-)

---Joel

```
From -7882332932144903070
X-Google-Thread: fc2a5,8e9892758d5384ba
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 05 Mar 2011 03:18:22 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Some questions on IF transformers
Newsgroups: rec.radio.amateur.homebrew
References: <zQh9p.228282$Ud7.114682@en-nntp-16.dc1.easynews.com>
     <Tb2dnec9C7f9s_bQnZ2dnUVZ_uqdnZ2d@web-ster.com>
     <wTSap.459883$ZM.255321@en-nntp-02.dc1.easynews.com>
     <ENKdnYlZCN79s_LQnZ2dnUVZ_s2dnZ2d@web-ster.com>
     <iVQbp.714028$pX3.31988@en-nntp-11.dc1.easynews.com>
User-Agent: Pan/0.133 (House of Butterflies)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <592dnebNDIlDYuzQnZ2dnUVZ_v2dnZ2d@web-ster.com>
Date: Sat, 05 Mar 2011 03:18:22 -0600
Lines: 93
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
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fecmiGdpin64j92ke71BEGsMSGf3Jzeuwu4kB7Ai5+naLzNJJe/+9I078P8NwctbCy3F3wasv6BX!
fKUaWzISgvnnyss=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 5937
Xref: g2news1.google.com rec.radio.amateur.homebrew:4232
```

On Thu, 03 Mar 2011 10:15:42 -0800, Joel Koltner wrote:

> "Tim Wescott" <tim@seemywebsite.com> wrote in message
> news:ENKdnYlZCN79s_LQnZ2dnUVZ_s2dnZ2d@web-ster.com...
>> Does Mouser still sell them?

>
> Somewhat surprisingly, yes, they do. (Although of the many hundreds they have listed in their system, it's only something like a couple dozen they actually have stock of.)
>
>> The point of the IF transformer was twofold: to provide selectivity, and to give a good impedance match between stages. I think there must have been a standard receiver design, as there just seemed to be one choice for each coil -- this in spite of the fact that as soon as you start juggling feedback and/or standing currents, you change the impedances, and therefor the required transformer.
>
> Agreed -- and I additionally suspect that many people who made those receivers didn't necessarily understand the design itself that well. I.e., if it basically worked and wasn't clearly deaf, it became a product -- few if any AM/FM receivers found on the shelves of, e.g., Sears listed things like their sensitivity, adjacent channel rejection, etc. (From the flip side, though, I suppose that's one of the things the FCC did: Coordinated frequencies and power levels such that just about any radio would work "reasonably" well;

In fact, they did: if you pay attention to the analog TV channels and the radio channels in any one market, you'll find that they're spaced apart by at least one 'dead' channel, while those 'dead' channels are 'live' in adjoining broadcast areas.

For instance, in Portland, Oregon the TV channels were 2, 6, 8, 10 and 12, while Salem got the odd-numbers.

> it's a very different market from, say, amateur radio where there's little or no coordination of these parameters and the customer may very well want to try to listen to some QRP station on 14.15MHz while there's some big gun blasting away on 14.14MHz...)

A different problem, too: broadcast implies a few transmitters and lots of receivers, so you hold down system costs by skewing the requirements very heavily toward cheap receivers, even at the cost of efficient bandwidth usage.

Contrast that with pre-broadcast satellite TV, where you save some bucks in the satellites, at the cost of needing big dishes and sensitive receivers. That's OK, because the dishes are few (before they started getting into the hands of the consumers). Then look at the direct-to-consumer satellite systems, where the dish is just two feet across, and you have to assume that the satellite is way more expensive.

>> I think if I were going to design a broadcast-band receiver, I wouldn't just re-do the old schematic from 1960 -- I'd start from a clean sheet of paper, and see where I could go from there.
>
> I agree insofar as the actual design goes, but I like to study these older technologies because I think it's all too easy to not realize just

> how good the performance of some of the old designs were (for your new
> design you'd like to start with specs that are hopefully some
> improvement or at least as good as the old ones...), and also because a
> lot of the same *techniques* can be applied to modern designs just as
> well as they could to old ones (e.g., varactor tuning is just an
> evolution of mechanical tuning, neutralization applies just as much to
> BJTs as it does to tubes, etc.).

True, but you need to know where the old techniques aren't going to serve
you well (e.g. the passives involved in neutralizing a transistor stage
to get a few more dB gain cost more than another stage).

>> (Actually, I think the first
>> thing that'd go onto that clean sheet of paper would be an ADC -- I'm a
>> luddite in a lot of ways, but not in how I'd like to see a receiver
>> laid out).
>
> That works, but consider that if you digitize the entire broadcast FM
> band at once (all 20MHz of it), compared to a $20 superhet receiver:
>
> -- Your weak signal sensitivity may be worse, since your dynamic range
> is spread across the entire band rather than just what'll fit through an
> IF filter.
> -- You'll likely suck rather more power from a battery. -- It'll
> probably cost more.
> -- For the channels you can receive well, you'll have infinitely more
> options on being able to reduce noise, change your audio bandwidth,
> recovery stereo, decode RDS, an so on. :-)

Good point. But getting things through an IF filter, _then_ going into
an ADC isn't a bad thing, unless you're trying for the absolute minimum
of power and circuit cost.

--
http://www.wescottdesign.com

From -8831718708799444362
X-Google-Thread: fc2a5,8e9892758d5384ba
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!o21g2000prn.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Some questions on IF transformers
Date: Sat, 5 Mar 2011 06:11:02 -0800 (PST)
Organization: http://groups.google.com
Lines: 38
Message-ID: <372e6b78-5ec1-4c29-b408-0984b0196bc2@o21g2000prn.googlegroups.com>
References: <zQh9p.228282$Ud7.114682@en-nntp-16.dc1.easynews.com>
 <pvlj38-qv2.ln1@giganews.com> <MTR9p.414599$Ph5.86720@en-

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nntp-07.dc1.easynews.com>
NNTP-Posting-Host: 155.178.5.19
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1299334263 24947 127.0.0.1 (5 Mar 2011 14:11:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 5 Mar 2011 14:11:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o21g2000prn.googlegroups.com; posting-host=155.178.5.19; posting-
account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
 Trident/4.0; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4530

On Feb 25, 1:44=A0pm, "Joel Koltner" <zapwireDASHgro...@yahoo.com>
wrote:
> "Paul Probert" <paulprob...@sbcglobal.net> wrote in message
>
> news:pvlj38-qv2.ln1@giganews.com...
>
> > On 02/23/2011 06:43 PM, Joel Koltner wrote:
>
> >> 1) The really big 450kHz IF transformers you see in tube sets... why d=
id
> >> they wind the coils in the form of "pancakes" rather than "the usual
> >> way"?
> > They do this to try to keep the self-resonance of the winding up above =
the
> > operating frequency. By spreading the winding out into series connected
> > pancakes the stray capacitances have a harder time shunting large
> > inductances. You see this kind of construction on RF chokes too.
>
> Ah, clever!
>
> One I was looking at the other day has some fancy weaving involved as wel=
l; it
> must have been quite an interesting machine that made them.
>
> Poking around You Tube some I see that winding single-layer (no fancy wav=
ing)
> coils is quite doable at home (the Tesla coil guys are quite into it). =
=A0 It's
> pretty slick:http://www.youtube.com/watch?v=3DN3N-tw6OEXw.
>
> Thanks for the help,
> ---Joel

Back as far as the 70's hand operated machines could be purchase for
winding coils. I think I remember seeing them in my old Allied
Electronics catalog.
```

Jimmie

From -1601291814331237284
X-Google-Thread: fc2a5,bdfe5957db06d9b4
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!o14g2000prb.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Old PI network coil
Date: Sat, 5 Mar 2011 13:22:56 -0800 (PST)
Organization: http://groups.google.com
Lines: 23
Message-ID: <b3155550-aff0-49f1-80e0-de0132ebdf07@o14g2000prb.googlegroups.com>
References: <ikmfu6$1js$1@news.eternal-september.org>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1299360176 4259 127.0.0.1 (5 Mar 2011 21:22:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 5 Mar 2011 21:22:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o14g2000prb.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1;
 Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
 3.0.30729; MAAU; .NET4.0C; InfoPath.3; MAAU),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4531

On Mar 2, 5:21=A0pm, "Bob" <some...@somewhere.com> wrote:
> Looking for any information on an Illumitronx Pi network "PI air dux" , p=
art
> number 1212D6 like power ratings, recommended taps / tube, etc. Looks lik=
e
> #12 silver plated wire.
> Not sure of the spelling but it looks to be Illumitronx. Google turned up
> nothing.
> Bob
> KB8TL
>
> Yes, I know how to measure or calculate inductance of an air wound coil

It is a 1000 watt coil, that's rated in input power by the way, back
in those days they went by input power, I got's an AirDux coil I
bought on ebay it was mounted on a lucite board that went thru the
middle length wise of the coil, had the 10 meter flat wire coil on the
one end the ten meter coil is rated 1000 watts the ten meter coil was
mounted in a plane 90 degrees from the main coil.

Like if the main coil was north south the ten meter coil was going east west
The main coil is 12 AWG silver plated wire the spec. sheet that came with it stated that it was used for 1000 watt input power finals.

```
From 3493608400575110669
X-Google-Thread: fcc6e,5251370f87e8c0c2,start
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X-Google-Thread: 108122,5251370f87e8c0c2,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,5251370f87e8c0c2,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,49ef18182f46ac55
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,49ef18182f46ac55
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,5251370f87e8c0c2,start
X-Google-NewGroupId: yes
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
news-out.readnews.com!transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1297062301@panix.com>
Followup-To: poster
Date: 7 Mar 2011 02:05:01 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Apr 2011 03:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1299481501@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1299481503 8388 166.84.1.2 (7 Mar 2011 07:05:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 7 Mar 2011 07:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news2.google.com rec.radio.amateur.antenna:22464 rec.radio.amateur.dx:951
rec.radio.amateur.equipment:2740 rec.radio.amateur.homebrew:4532
rec.radio.amateur.misc:6224 rec.radio.amateur.policy:32802 rec.radio.info:2243
```

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |
rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

```
From -7898641007904301663
X-Google-Thread: fc2a5,669343bc91423e0b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!a11g2000pro.googlegroups.com!not-for-
mail
From: sowmya <sowmya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SEXY HOT GIRLS
Date: Tue, 8 Mar 2011 07:21:51 -0800 (PST)
Organization: http://groups.google.com
Lines: 23
Message-ID: <20aeb43c-dbff-4079-9109-773d0f8ac381@a11g2000pro.googlegroups.com>
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Mime-Version: 1.0
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X-Trace: posting.google.com 1299597712 15187 127.0.0.1 (8 Mar 2011 15:21:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 8 Mar 2011 15:21:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a11g2000pro.googlegroups.com; posting-host=117.199.245.173;
posting-account=GuIc0goAAABHuN9VJ4di0FQvlAtWov1J
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.15)
 Gecko/20110303 Firefox/3.6.15,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4236

                     HOT ARCHANA STILLS
http://karomasti9.blogspot.com/2011/01/archana.html
          DEEKSHA SETH HOT WALLPAPERS
http://karomasti9.blogspot.com/2011/01/deeksha-seth.html
       KATRINA KAIF HOT VIDEOS&PHOTOS
http://karomasti9.blogspot.com/2011/01/katrina-kaif.html
                 SAMEERAREDDY HOT BOOBS
http://karomasti9.blogspot.com/2011/01/sameerareddy.html
               HOT SEXY ACTRESS
  http://karomasti9.blogspot.com/2011/01/hot.html
               latest hot sruthi hassan stills
 http://karomasti9.blogspot.com/2011/01/shurthihassan-new-stills.html
            UNSEEN HOT SEXY PHOTOS
 http://karomasti9.blogspot.com/2011/01/never.html

         ONLY HOT VIDEOS FOR YOUTH
----------------------------------------------------------------
                      HOT VIDEOS
         http://sexy-rainsongs.blogspot.com/
                          FUNNY VIDEOS
http://sexy-rainsongs.blogspot.com/p/funny-video.html
                    TELUGU FUNNY VIDEOS
http://sexy-rainsongs.blogspot.com/p/telugu-funny-videos.html
```

```
From 2255714002751676428
X-Google-Thread: 1138ec,b79fc673ee5594c0,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,bdfe5957db06d9b4
X-Google-NewGroupId: yes
X-Google-Thread: 10f7a7,b79fc673ee5594c0,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,b79fc673ee5594c0,start
X-Google-NewGroupId: yes
X-Google-Thread: fb956,b79fc673ee5594c0,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid7cf236ca86,gid241b302a50,gid6c06cdf328,gide721ae2bf6,gidb8f358440e,domainid0,pu
blic,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!t8g2000vbd.googlegroups.com!not-for-
mail
From: kb9rqz <marky_kelpstein@ymail.com>
Newsgroups:
comp.os.os2.advocacy,rec.radio.amateur.homebrew,alt.usenet.kooks,rec.radio.amateur
.policy,alt.checkmate
Subject: Re: Old PI network coil
Date: Wed, 9 Mar 2011 21:30:53 -0800 (PST)
Organization: http://groups.google.com
Lines: 30
Message-ID: <9bcce650-9d38-4c90-a891-08deb7f35528@t8g2000vbd.googlegroups.com>
References: <ikmfu6$1js$1@news.eternal-september.org> <b3155550-aff0-49f1-80e0-
de0132ebdf07@o14g2000prb.googlegroups.com>
NNTP-Posting-Host: 205.188.117.19
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1299735053 7158 127.0.0.1 (10 Mar 2011 05:30:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 10 Mar 2011 05:30:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t8g2000vbd.googlegroups.com; posting-host=205.188.117.19; posting-
account=9uLHLQkAAACKcF0jUatFCXwB6xFwsVXt
User-Agent: G2/1.0
X-HTTP-Via: HTTP/1.1 (Velocity/3.3.14.1 [uScMs f p eN:t cCMp s ]), HTTP/1.1
 spider-dtc-ta09.proxy.aol.com[CDBC7009] (Prism/1.2.1), HTTP/1.1
 cache-dtc-ae15.proxy.aol.com[CDBC7513] (Traffic-Server/6.1.5 [uScM])
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; AOL 9.6; AOLBuild
 4340.130; Windows NT 5.1; Trident/4.0; yie8),gzip(gfe)
Xref: g2news2.google.com comp.os.os2.advocacy:19419
rec.radio.amateur.homebrew:4535 alt.usenet.kooks:372159
rec.radio.amateur.policy:32840 alt.checkmate:3523

On Mar 5, 9:52=A0pm, kb9rqz <kb9rqz@gmail.com> wrote:
> On Mar 2, 5:49=A0pm, "kb9rqz" <kb9rqz@kb9rqz.com> wrote:
>
> > Looking for any information on an Illumitronx Pi network "PI air dux" ,=
 part
```

```
> > number 1212D6 like power ratings, recommended taps / tube, etc. Looks l=
ike
> > #12 silver plated wire.
> > Not sure of the spelling but it looks to be Illumitronx. Google turned =
up
> > nothing.
> > Bob
> > KB8TL
>
> > Yes, I know how to measure or calculate inductance of an air wound coil
>
> It is a 1000 watt coil, that's rated in input power by the way, back
> in those days they went by input power, I got's an AirDux coil I
> bought on ebay it was mounted on a lucite board that went thru the
> middle length wise of the coil, had the 10 meter flat wire coil on the
> one end the ten meter coil is rated 1000 watts the ten meter coil was
> mounted in a plane 90 degrees from the main coil.
> Like if the main coil was north south the ten meter coil was going
> east west
> The main coil is 12 AWG silver plated wire the spec. sheet that came
> with it stated that it was used for 1000 watt input power finals.

Indeed it sounds like you could use some tips from teh kosher ham:
http://ipunce2.blogspot.com




From 7564896678549714641
X-Google-Thread: 1138ec,b79fc673ee5594c0
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,bdfe5957db06d9b4
X-Google-NewGroupId: yes
X-Google-Thread: 10f7a7,b79fc673ee5594c0
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,b79fc673ee5594c0
X-Google-NewGroupId: yes
X-Google-Thread: fb956,b79fc673ee5594c0
X-Google-NewGroupId: yes
X-Google-Attributes:
gid7cf236ca86,gid241b302a50,gid6c06cdf328,gide721ae2bf6,gidb8f358440e,domainid0,pu
blic,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!s18g2000prg.googlegroups.com!not-for-
mail
From: kb9rqz <mark@kb9rqz.com>
Newsgroups:
comp.os.os2.advocacy,rec.radio.amateur.homebrew,alt.usenet.kooks,rec.radio.amateur
.policy,alt.checkmate
Subject: gey kelp
Date: Thu, 10 Mar 2011 13:05:36 -0800 (PST)
Organization: http://groups.google.com
Lines: 4
Message-ID: <21de8cdf-e58f-41c9-b95f-f11160d2ee04@s18g2000prg.googlegroups.com>
```

```
References: <ikmfu6$1js$1@news.eternal-september.org> <b3155550-aff0-49f1-80e0-
de0132ebdf07@o14g2000prb.googlegroups.com>
 <9bcce650-9d38-4c90-a891-08deb7f35528@t8g2000vbd.googlegroups.com>
NNTP-Posting-Host: 69.19.14.15
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1299791136 19886 127.0.0.1 (10 Mar 2011 21:05:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 10 Mar 2011 21:05:36 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s18g2000prg.googlegroups.com; posting-host=69.19.14.15; posting-
account=3ePh8QoAAABpiNDYEy2_bPCVy_4Crs1n
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
 Trident/4.0; .NET CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152;
 .NET CLR 3.5.30729),gzip(gfe)
Xref: g2news2.google.com comp.os.os2.advocacy:19462
rec.radio.amateur.homebrew:4536 alt.usenet.kooks:372225
rec.radio.amateur.policy:32847 alt.checkmate:3524

On Mar 10, 12:30=A0am, kb9rqz <marky_kelpst...@ymail.com> wrote:
> On Mar 5, 9:52=A0pm, kb9rqz <kb9...@gmail.com> wrote:
>



From 1754465132905903338
X-Google-Thread: 1138ec,b79fc673ee5594c0
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,bdfe5957db06d9b4
X-Google-NewGroupId: yes
X-Google-Thread: 10f7a7,b79fc673ee5594c0
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,b79fc673ee5594c0
X-Google-NewGroupId: yes
X-Google-Thread: fb956,b79fc673ee5594c0
X-Google-NewGroupId: yes
X-Google-Attributes:
gid7cf236ca86,gid241b302a50,gid6c06cdf328,gide721ae2bf6,gidb8f358440e,domainid0,pu
blic,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!w7g2000pre.googlegroups.com!not-for-
mail
From: "tholen@antispam.ham" <tholen@ifa.hawaii.edu>
Newsgroups:
comp.os.os2.advocacy,rec.radio.amateur.homebrew,alt.usenet.kooks,rec.radio.amateur
.policy,alt.checkmate
Subject: Re: Old PI network coil
Followup-To: alt.test
Date: Thu, 10 Mar 2011 19:47:57 -0800 (PST)
Organization: http://groups.google.com
Lines: 9
```

```
Message-ID: <91964de4-38bf-47b8-98ea-972fc7fa9e72@w7g2000pre.googlegroups.com>
References: <ikmfu6$1js$1@news.eternal-september.org> <b3155550-aff0-49f1-80e0-
de0132ebdf07@o14g2000prb.googlegroups.com>
 <9bcce650-9d38-4c90-a891-08deb7f35528@t8g2000vbd.googlegroups.com>
NNTP-Posting-Host: 98.155.221.26
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1299815277 15145 127.0.0.1 (11 Mar 2011 03:47:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 11 Mar 2011 03:47:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w7g2000pre.googlegroups.com; posting-host=98.155.221.26; posting-
account=3OobLgoAAAA_tW93wtpiQ_kCs5Ukjs5F
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (OS/2; Warp 4.5; rv:2.0b8pre) Gecko/20101204
Firefox/4.0b8pre,gzip(gfe)
Xref: g2news2.google.com comp.os.os2.advocacy:19490
rec.radio.amateur.homebrew:4537 alt.usenet.kooks:372301
rec.radio.amateur.policy:32852 alt.checkmate:3526
```

kb9rqz <marky_kelpstein@ymail.com> writes:

209> Newsgroups:
comp.os.os2.advocacy,rec.radio.amateur.homebrew,alt.usenet.kooks,rec.radio.amateur.policy,alt.checkmate

209> Indeed it sounds like you could use some tips from teh kosher
ham:

What do those tips have to do with OS/2, kb9rqz?

```
From -7081184847623778448
X-Google-Thread: 1138ec,b79fc673ee5594c0
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,bdfe5957db06d9b4
X-Google-NewGroupId: yes
X-Google-Thread: 10f7a7,b79fc673ee5594c0
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,b79fc673ee5594c0
X-Google-NewGroupId: yes
X-Google-Thread: fb956,b79fc673ee5594c0
X-Google-NewGroupId: yes
X-Google-Attributes:
gid7cf236ca86,gid241b302a50,gid6c06cdf328,gide721ae2bf6,gidb8f358440e,domainid0,pu
blic,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i39g2000prd.googlegroups.com!not-for-
mail
From: "tholen@antispam.ham" <tholen@ifa.hawaii.edu>
Newsgroups:
comp.os.os2.advocacy,rec.radio.amateur.homebrew,alt.usenet.kooks,rec.radio.amateur
.policy,alt.checkmate
```

```
Subject: Re: gey kelp
Followup-To: alt.test
Date: Thu, 10 Mar 2011 19:48:37 -0800 (PST)
Organization: http://groups.google.com
Lines: 9
Message-ID: <46905b7e-db21-491b-a69a-8a9b753b9deb@i39g2000prd.googlegroups.com>
References: <ikmfu6$1js$1@news.eternal-september.org> <b3155550-aff0-49f1-80e0-
de0132ebdf07@o14g2000prb.googlegroups.com>
 <9bcce650-9d38-4c90-a891-08deb7f35528@t8g2000vbd.googlegroups.com> <21de8cdf-
e58f-41c9-b95f-f11160d2ee04@s18g2000prg.googlegroups.com>
NNTP-Posting-Host: 98.155.221.26
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1299815422 16373 127.0.0.1 (11 Mar 2011 03:50:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 11 Mar 2011 03:50:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i39g2000prd.googlegroups.com; posting-host=98.155.221.26; posting-
account=3OobLgoAAAA_tW93wtpiQ_kCs5Ukjs5F
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (OS/2; Warp 4.5; rv:2.0b8pre) Gecko/20101204
Firefox/4.0b8pre,gzip(gfe)
Xref: g2news1.google.com comp.os.os2.advocacy:17864
rec.radio.amateur.homebrew:4241 alt.usenet.kooks:338852
rec.radio.amateur.policy:29789 alt.checkmate:3525

kb9rqz <mark@kb9rqz.com> writes:

210> Newsgroups:
comp.os.os2.advocacy,rec.radio.amateur.homebrew,alt.usenet.kooks,rec.radio.amateur
.policy,alt.checkmate

210> Message-ID: <21de8cdf-e58f-41c9-b95f-
f11160d2ee04@s18g2000prg.googlegroups.com>

What does your empty response have to do with OS/2, kb9rqz?


From 3879901382947731058
X-Google-Thread: fc2a5,b9aaa3b8c05a2184,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!feeder.news-
service.com!94.75.214.39.MISMATCH!aioe.org!.POSTED!not-for-mail
From: "garyr" <garyr@fidalgo.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: RTTY bandwidth
Date: Fri, 11 Mar 2011 13:04:36 -0800
Organization: Aioe.org NNTP Server
Lines: 3
Message-ID: <ile30e$46k$1@speranza.aioe.org>
NNTP-Posting-Host: 2nNqM3fiNxpuURKDBAho4w.user.speranza.aioe.org
```

X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
X-RFC2646: Format=Flowed; Original
X-Notice: Filtered by postfilter v. 0.8.2
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:4242

Anyone know what the bandwidth of a 50 baud RTTY signal might be?

From 2606427883509408310
X-Google-Thread: fc2a5,b9aaa3b8c05a2184
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
news2.arglkargh.de!news.mixmin.net!aioe.org!.POSTED!not-for-mail
From: jimp@specsol.spam.sux.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RTTY bandwidth
Date: Fri, 11 Mar 2011 21:29:04 -0000
Organization: Aioe.org NNTP Server
Lines: 11
Message-ID: <0qgq48-u02.ln1@mail.specsol.com>
References: <ile30e$46k$1@speranza.aioe.org>
NNTP-Posting-Host: 5FQzpG9PgxCHgWX2ynv4yg.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (SunOS/5.10 (i86pc))
X-Notice: Filtered by postfilter v. 0.8.2
Xref: g2news2.google.com rec.radio.amateur.homebrew:4540

garyr <garyr@fidalgo.net> wrote:
> Anyone know what the bandwidth of a 50 baud RTTY signal might be?

It depends on the shift, but at the 170 Hz standard it is about 300 Hz
and the amateur standard 45.45 baud at 170 hz is about 250 Hz.

--
Jim Pennino

Remove .spam.sux to reply.

From 4492673713664544299
X-Google-Thread: fc2a5,b9aaa3b8c05a2184
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

```
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 11 Mar 2011 15:46:28 -0600
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <ile30e$46k$1@speranza.aioe.org>
Subject: Re: RTTY bandwidth
Date: Fri, 11 Mar 2011 16:46:31 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <nZWdnYlbe5uoBefQnZ2dnUVZ_qOdnZ2d@earthlink.com>
Lines: 18
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.148.196.116
X-Trace: sv3-
uapSsS6Uh2uWDx8UaNkY7G+f3Bu7fZoN8pntUORJITuBrCvUDRg6n+oIWaNQHcFg1GPZMd74bKa095w!
R28ejh+4CUvlXTtVFN+251tttj4fpBNBkHWV5sP1efBjruj5Fh06g+ZMoT11+BKEo6aSvYZWO3O2!j//
vkjGOuwnjRenmnAzIEA+VF06zTOoZU/jBOnS6
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1665
Xref: g2news1.google.com rec.radio.amateur.homebrew:4244
```

The bandwidth will depend on what shift is being used. Some of the more common shifts are 170,425, and 850 Hz.

The actual bandwidth needed to receive them will be slightly larger. Something like 200 for the 170 Hz shift and 1200 for the 850 Hz shift. The transmitted bandwidth will be larger yet.

It is similar to an FM signal, it theory it is infinite,but in practice it can be much less.

"garyr" <garyr@fidalgo.net> wrote in message news:ile30e$46k$1@speranza.aioe.org...

> Anyone know what the bandwidth of a 50 baud RTTY signal might be?
>

```
From 3158470935335963558
X-Google-Thread: fc2a5,b9aaa3b8c05a2184
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder2.cambriumusenet.nl!
feed.tweaknews.nl!81.171.88.250.MISMATCH!newsfeed.eweka.nl!feeder3.eweka.nl!
81.171.88.16.MISMATCH!eweka.nl!hq-usenetpeers.eweka.nl!193.201.147.79.MISMATCH!
hitnews.eu!feeder.news-service.com!94.75.214.39.MISMATCH!aioe.org!.POSTED!not-for-mail
From: "Piero Soldi" <piero.soldi@libero.it>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RTTY bandwidth
Date: Sat, 12 Mar 2011 10:00:42 +0100
Organization: Aioe.org NNTP Server
Lines: 37
Message-ID: <ilfco1$qco$1@speranza.aioe.org>
References: <ile30e$46k$1@speranza.aioe.org>
<nZWdnYlbe5uoBefQnZ2dnUVZ_qOdnZ2d@earthlink.com>
NNTP-Posting-Host: xVvz+vhOd+6vtfj60hkhzg.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-Antivirus-Status: Clean
X-Notice: Filtered by postfilter v. 0.8.2
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-Antivirus: avast! (VPS 110311-1, 11/03/2011), Outbound message
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.homebrew:4544

"Ralph Mowery" <rmowery28146@earthlink.net> ha scritto nel messaggio
news:nZWdnYlbe5uoBefQnZ2dnUVZ_qOdnZ2d@earthlink.com...
> The bandwidth will depend on what shift is being used. Some of the more
> common shifts are 170,425, and 850 Hz.
>
> The actual bandwidth needed to receive them will be slightly larger.
> Something like 200 for the 170 Hz shift and 1200 for the 850 Hz shift.
> The transmitted bandwidth will be larger yet.
>
> It is similar to an FM signal, it theory it is infinite,but in practice it
> can be much less.
>
>
>
> "garyr" <garyr@fidalgo.net> wrote in message
> news:ile30e$46k$1@speranza.aioe.org...
>> Anyone know what the bandwidth of a 50 baud RTTY signal might be?
>>
>
>

Consider also the group delay of receiving filter...
with narrow Butterworth or Chebyshev crystal filters, group delay is big,
distorting
RTTY , CW or other digital signals, and ultimate result is error in

decoding.

So bandwidth need to be more than necessary. A Gaussian filter is better for
group delay,
but is worse for steepness.

73, Piero.

```
From 242441813164967357
X-Google-Thread: fc2a5,83805be4625b3d87,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z27g2000prz.googlegroups.com!not-for-
mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: VIDEOS FOR HOT GUYS
Date: Sat, 12 Mar 2011 07:32:51 -0800 (PST)
Organization: http://groups.google.com
Lines: 19
Message-ID: <a360f31b-02fa-418f-8f31-e810d666ccd2@z27g2000prz.googlegroups.com>
NNTP-Posting-Host: 117.199.240.119
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1299943972 2124 127.0.0.1 (12 Mar 2011 15:32:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 12 Mar 2011 15:32:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z27g2000prz.googlegroups.com; posting-host=117.199.240.119;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.15)
 Gecko/20110303 Firefox/3.6.15,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4248

                       hot sexy videos
          http://sexy-rainsongs.blogspot.com/
                    hot keerthi chawla
http://sexy-rainsongs.blogspot.com/2011/03/keerthi-chawla.html
                       katrina kaif hot
http://sexy-rainsongs.blogspot.com/2011/03/katrina-kaif.html
                     sexy charmi
http://sexy-rainsongs.blogspot.com/2011/03/charmi.html
               hot deepika padukone
http://sexy-rainsongs.blogspot.com/2011/03/deepika-padukone.html
                   asin sexy videos
http://sexy-rainsongs.blogspot.com/2011/03/asin.html
```

beautiful tamil actress
http://sexy-rainsongs.blogspot.com/2011/03/tamil-actress.html
FOR FUNNY VIDEOS
http://sexy-rainsongs.blogspot.com/p/funny-video.html

```
From 7262961131039862822
X-Google-Thread: fc2a5,b9aaa3b8c05a2184
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.kjsl.com!
news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RTTY bandwidth
Date: Sat, 12 Mar 2011 12:25:52 -0500
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 44
Sender: et472@203-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.1103121223270.28572@darkstar.example.net>
References: <ile30e$46k$1@speranza.aioe.org>
<nZWdnYlbe5uoBefQnZ2dnUVZ_qOdnZ2d@earthlink.com>
 <ilfco1$qco$1@speranza.aioe.org>
NNTP-Posting-Host: 203-215-235-64-ppp.3menatwork.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1299950859 10316 64.235.215.203 (12 Mar 2011 17:27:39 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 12 Mar 2011 17:27:39 GMT
In-Reply-To: <ilfco1$qco$1@speranza.aioe.org>
Xref: g2news1.google.com rec.radio.amateur.homebrew:4249

On Sat, 12 Mar 2011, Piero  Soldi wrote:

> "Ralph Mowery" <rmowery28146@earthlink.net> ha scritto nel messaggio
> news:nZWdnYlbe5uoBefQnZ2dnUVZ_qOdnZ2d@earthlink.com...
>> The bandwidth will depend on what shift is being used.  Some of the more
>> common shifts are 170,425, and 850 Hz.
>>
>> The actual bandwidth needed to receive them will be slightly larger.
>> Something like 200 for the 170 Hz shift and 1200 for the 850 Hz shift.
>> The transmitted bandwidth will be larger yet.
>>
>> It is similar to an FM signal, it theory it is infinite,but in practice it
>> can be much less.
>>
>>
>>
>> "garyr" <garyr@fidalgo.net> wrote in message
>> news:ile30e$46k$1@speranza.aioe.org...
>>> Anyone know what the bandwidth of a 50 baud RTTY signal might be?
>>>
>>
>>
>
> Consider also the group delay of receiving filter...
> with narrow Butterworth or Chebyshev crystal filters, group delay is big,
> distorting
> RTTY , CW or other digital signals, and ultimate result is error in
> decoding.
>
> So bandwidth need to be more than necessary. A Gaussian filter is better for
> group delay,
> but is worse for steepness.
>
```

I figured the original question was the bandwidth the signal took, rather than the bandwidth of the receiver.

I didn't think anyone went for a receiver filter to match the RTTY signal. Well maybe the hardcore RTTYers. But generally one used a reasonable filter in the receiver, and counted on the audio filters in the demodulator. There again, relative few decoded at the IF, but even then the articles I've seen didn't go for any special narrow filters for RTTY.

    Michael VE2BVW

```
From -4798151635681759095
X-Google-Thread: fc2a5,ed0938c5046c3207,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.arglkargh.de!
easy.in-chemnitz.de!feeder.erje.net!border3.nntp.ams.giganews.com!
Xl.tags.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!
local2.nntp.ams.giganews.com!nntp.bt.com!news.bt.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 12 Mar 2011 12:48:23 -0600
From: "Howard James" <h.james.james@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FM Bandwidth
Date: Sat, 12 Mar 2011 18:48:14 -0000
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
Importance: Normal
X-Newsreader: Microsoft Windows Live Mail 15.4.3508.1109
```

```
X-MimeOLE: Produced By Microsoft MimeOLE V15.4.3508.1109
Message-ID: <b7WdneMQrN1qIubQnZ2dnUVZ7qWdnZ2d@bt.com>
Lines: 5
X-Usenet-Provider: http://www.giganews.com
X-AuthenticatedUsername: NoAuthUser
X-Trace: sv3-
Zstpw21QUL5tRvycKDqbrJPHNiYngR1QOYkNyubv7pt2R7hv4Odd+3OJjyBFF6ZYFzig+LEX4g36Bo9!
t40L57iMDexniQyJCkUeGbhikA4emUObog6RODTZXylyFLFFhRmHtvagKdDzKGKpDZygVQgfkA==
X-Complaints-To: abuse@btinternet.com
X-DMCA-Complaints-To: abuse@btinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1407
Xref: g2news1.google.com rec.radio.amateur.homebrew:4250
```

I'm building a 2 metre Rx with an IF of 10.7 MHz. It will be used for FM. I have three crystal filters with the following bandwidths: 15 KHz; +/- 6 KHz and +/- 3.75 KHz. Which one should I use?
Thanks. Howard.

```
From 985468871265818019
X-Google-Thread: 241b302a50,afa7d9dbce3e1082
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: "Percival P. Cassidy" <Nobody@NotMyISP.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
Date: Wed, 16 Feb 2011 16:01:23 -0500
Organization: A noiseless patient Spider
Lines: 26
Message-ID: <ijhdv4$41o$1@news.eternal-september.org>
References: <ij75sl$uq1$1@news.eternal-september.org>
<ij83sg$3ls$1@news.albasani.net> <ij8p65$6b5$1@news.eternal-september.org>
<9hX5p.32776$nZ2.22378@newsfe03.iad> <ijcfjr$voc$1@news.eternal-september.org>
<8Gk6p.7178$7P3.6033@newsfe21.iad> <ijcu7c$7jg$1@news.eternal-september.org>
<5UB6p.22320$y_7.9063@newsfe10.iad>
<27844292-48a7-4085-8ed7-2b962f549a98@o7g2000prn.googlegroups.com>
<50T6p.62862$Gq3.22299@newsfe09.iad> <ijh3bt$3nn$1@news.eternal-september.org>
<pmW6p.26722$4L4.12874@newsfe11.iad>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Wed, 16 Feb 2011 21:01:25 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="ismYE5oby9ATf5GkPvYE2A";
     logging-data="4152"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18pyAeXaRFcZfj8zO7zfJNX"
User-Agent: Mozilla/5.0 (OS/2; U; Warp 4.5; en-US; rv:1.9.2.13) Gecko/20101209
Thunderbird/3.1.7 ThunderBrowse/3.3.4
In-Reply-To: <pmW6p.26722$4L4.12874@newsfe11.iad>
Cancel-Lock: sha1:WZc56SdsftWnDF8A2TF877cRTI4=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4440

On 02/16/11 03:22 pm, philo wrote:

>>> I ignore hams when it comes to battery equipment and pay attention to
>>> people who trust their lives to their batteries,
>>> http://www.morganscloud.com/2011/02/10/eleven-steps-to-better-battery-life/

>> I'll check that out.

> You can take my advice or leave it...
> that's up to you.
>
> I'm a senior service engineer who's been in the (lead acid) battery
> business for 36 years.
>
> I assure you that "float charging" a battery is not rocket science
> and you do not have to get too fancy
>
> (but if you want to, that's fine )

I know that I can connect a *suitable* P/S set to an appropriate voltage
to "float" my batteries *if that is all I want to do* (my little Astron
"switcher" is doing it right now), but I was hoping to get or build
something that will handle the initial phases of charging a
significantly discharged battery then switch automatically to "float" mode.

"Perce"


From 1531986610909753222
X-Google-Thread: 241b302a50,afa7d9dbce3e1082
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 16 Feb 2011 15:57:21 -0600
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
References: <ij75sl$uq1$1@news.eternal-september.org>
<5UB6p.22320$y_7.9063@newsfe10.iad>
<27844292-48a7-4085-8ed7-2b962f549a98@o7g2000prn.googlegroups.com>
<ijhbhr$rv4$1@news.eternal-september.org>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
```

Originator: dplatt@radagast.org (Dave Platt)
Date: Wed, 16 Feb 2011 13:56:19 -0800
Message-ID: <3ptt28-nph.ln1@radagast.org>
Lines: 66
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.159.209.148
X-Trace: sv3-O3z2TjA5AYfaFV+VpvAEog3Flw/
pX4qcWGwduVsWfmY1jG6m+g+5NdNa5/1Y8G1UzBerEN4ieeagEWY!amAbMIwiFifxqBP0LDh+IPOm/
rv8h6xMrYN2x4HpMi7Rxt/qTeAbvrGNiEVbwg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 4741
Xref: g2news2.google.com rec.radio.amateur.equipment:2711
rec.radio.amateur.homebrew:4441

In article <ijhbhr$rv4$1@news.eternal-september.org>,
Percival P. Cassidy <Nobody@NotMyISP.com> wrote:

>N5BIA offers a kit, and I was wondering whether this could be beefed up
>to handle 25A by adding 12ga wire to all the charging-current traces and
>substituting higher-current pass transistor(s).

... and huge heatsinks.

>   I'd have to recalculate
>the resistor values to suit a flooded battery, of course. And what about
>using a P-channel MOSFET device, such as the STP80PF55 that the "Micro
>M+" uses?

The thing about a low-Rds-on MOSFET, or a low-Vce-sat PNP, is that it really only gains you a benefit under one circumstance: when it's "hard on", acting as much as possible like a short-circuit. This will happen only during the "bulk" fast-charge stage... and only if the charge controller "sees" that the raw (unregulated) power supply circuit isn't capable of pushing more amps into the battery than the design allows.

If the charge control circuit finds it necessary to reduce _either_ the charge amperage, or the voltage being delivered to the battery, in order to charge the battery safely, then the pass transistor will be "partially off". There will be a significant voltage across it (roughly speaking, Vsupply - Vbattery) and lots of amperage, and so it will be dissipating a lot of energy as heat.

At that point, the actual Rds-on of a MOSFET, or the Vce-sat of a PNP, will matter not at all. You'll have to dissipate (Vsupply-Vbat)*Icharge watts of heat in the transistor.

Now, if you happen to have been careful (or lucky) enough in the design of your "raw" power supply, things will look good. By "careful or lucky", I mean that you've put together a raw supply which just happens to run out of "oomph" at exactly the right moment... the effort of delivering 25A into the battery just happens to cause the supply to sag down to the right voltage (equal to a voltage in the range you want to be charging at). Under those conditions, the whole system will be running "flat out", the pass transistor will be turned on as hard as it can be, and heat dissipation in the transistor will be minimized by using a low-voltage-drop transistor of some sort.

However, this approach has pitfalls... it will be finicky to get right (component selection will be difficult) and it will probably be very sensitive to variations in the AC power-line voltage. In real life, you'd find that much of the time, either you aren't getting the full 25A of charge current (line voltage too low), or the voltage and/or current are potentially too high and the charger is having to back off turn down the pass transistor (at which point there's no longer an advantage to a low-voltage-drop transistor).

If you want to deliver a high charging current, with good control and low losses, under a fairly wide range of conditions, I think you'd probably want to use a different approach... use a buck-mode switching regulator rather than a linear pass-transistor system. With that approach, the pass element would almost always be fully-on or fully-off, and thus there'd be a real benefit to a low-resistance MOSFET or a low-saturation power bipolar part.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From 4952345813697704194
X-Google-Thread: 108122,afa7d9dbce3e1082
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,afa7d9dbce3e1082
X-Google-NewGroupId: yes
X-Google-Attributes: gidd7f5508063,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!feeder.news-service.com!85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: "Percival P. Cassidy" <Nobody@NotMyISP.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
Date: Wed, 16 Feb 2011 21:29:25 -0500
Organization: A noiseless patient Spider
Lines: 83
Message-ID: <iji166$sd8$1@news.eternal-september.org>
References: <ij75sl$uq1$1@news.eternal-september.org>
<5UB6p.22320$y_7.9063@newsfe10.iad>
<27844292-48a7-4085-8ed7-2b962f549a98@o7g2000prn.googlegroups.com>
<ijhbhr$rv4$1@news.eternal-september.org> <3ptt28-nph.ln1@radagast.org>

Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 17 Feb 2011 02:29:26 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="ismYE5oby9ATf5GkPvYE2A";
     logging-data="29096"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/u1NUDwfYqLgfFvGASq9rC"
User-Agent: Mozilla/5.0 (OS/2; U; Warp 4.5; en-US; rv:1.9.2.13) Gecko/20101209 Thunderbird/3.1.7 ThunderBrowse/3.3.4
In-Reply-To: <3ptt28-nph.ln1@radagast.org>
Cancel-Lock: sha1:z/+g6WpL8R5izZwC3VsMTVDXC8w=
Xref: g2news1.google.com rec.radio.amateur.equipment:2498 rec.radio.amateur.homebrew:4145

On 02/16/11 04:56 pm, Dave Platt wrote:

>> N5BIA offers a kit, and I was wondering whether this could be beefed up to handle 25A by adding 12ga wire to all the charging-current traces and substituting higher-current pass transistor(s).
>
> ... and huge heatsinks.

Of course. His kit includes only the PC board and the PCB-mounted components anyway, so I would have to provide my own enclosure and heat sink (well, maybe it does include a clip-on heat sink; I don't recall).

>> I'd have to recalculate the resistor values to suit a flooded battery, of course. And what about using a P-channel MOSFET device, such as the STP80PF55 that the "Micro M+" uses?
>
> The thing about a low-Rds-on MOSFET, or a low-Vce-sat PNP, is that it really only gains you a benefit under one circumstance: when it's "hard on", acting as much as possible like a short-circuit. This will happen only during the "bulk" fast-charge stage... and only if the charge controller "sees" that the raw (unregulated) power supply circuit isn't capable of pushing more amps into the battery than the design allows.
>
> If the charge control circuit finds it necessary to reduce _either_ the charge amperage, or the voltage being delivered to the battery, in order to charge the battery safely, then the pass transistor will be "partially off". There will be a significant voltage across it (roughly speaking, Vsupply - Vbattery) and lots of amperage, and so it will be dissipating a lot of energy as heat.
>
> At that point, the actual Rds-on of a MOSFET, or the Vce-sat of a PNP, will matter not at all. You'll have to dissipate (Vsupply-Vbat)*Icharge watts of heat in the transistor.

My idea of using a MOSFET was to avoid the voltage drop of a junction transistor so that it could be fed from a regular P/S that has been cranked up only a little -- as with the "Super PwrGate," which has a voltage drop of no more than 0.5V; any idea what West Mountain Radio uses to accomplish that? So Vsupply - Vbattery would be low, and also the power dissipation.

> Now, if you happen to have been careful (or lucky) enough in the design of your "raw" power supply, things will look good. By "careful or lucky", I mean that you've put together a raw supply which just happens to run out of "oomph" at exactly the right moment... the effort of delivering 25A into the battery just happens to cause the supply to sag down to the right voltage (equal to a voltage in the range you want to be charging at). Under those conditions, the whole system will be running "flat out", the pass transistor will be turned on as hard as it can be, and heat dissipation in the transistor will be minimized by using a low-voltage-drop transistor of some sort.
>
> However, this approach has pitfalls... it will be finicky to get right (component selection will be difficult) and it will probably be very sensitive to variations in the AC power-line voltage. In real life, you'd find that much of the time, either you aren't getting the full 25A of charge current (line voltage too low), or the voltage and/or current are potentially too high and the charger is having to back off turn down the pass transistor (at which point there's no longer an advantage to a low-voltage-drop transistor).
>
> If you want to deliver a high charging current, with good control and low losses, under a fairly wide range of conditions, I think you'd probably want to use a different approach... use a buck-mode switching regulator rather than a linear pass-transistor system. With that approach, the pass element would almost always be fully-on or fully-off, and thus there'd be a real benefit to a low-resistance MOSFET or a low-saturation power bipolar part.

I'm trying to avoid switching-type circuitry, since I already have RFI-quiet regulated power supplies that are capable of supplying the desired maximum voltage and current. It's just a matter of reducing the voltage at the appropriate stages of the charging/maintenance process.

I was looking at the Super PwrGate until WMR's tech guy pointed out that the absorption voltage is too low and the float voltage possibly too high for flooded batteries. If I knew that it used a UC3906 and did not use SMT components I might be willing to try modifying one, but I don't have that information.

"Perce"

From -8447829012433592127
X-Google-Thread: 241b302a50,afa7d9dbce3e1082
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!r12g2000vbd.googlegroups.com!not-for-mail

From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
Date: Thu, 17 Feb 2011 13:36:14 -0800 (PST)
Organization: http://groups.google.com
Lines: 70
Message-ID: <22b69628-7b2e-4eb8-a308-0153a2e788c5@r12g2000vbd.googlegroups.com>
References: <ij75sl$uq1$1@news.eternal-september.org>
<ij83sg$3ls$1@news.albasani.net>
 <ij8p65$6b5$1@news.eternal-september.org> <9hX5p.32776$nZ2.22378@newsfe03.iad>
 <ijcfjr$voc$1@news.eternal-september.org> <8Gk6p.7178$7P3.6033@newsfe21.iad>
 <ijcu7c$7jg$1@news.eternal-september.org> <5UB6p.22320$y_7.9063@newsfe10.iad>
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<ijhbhr$rv4$1@news.eternal-september.org>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1297978574 31645 127.0.0.1 (17 Feb 2011 21:36:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 17 Feb 2011 21:36:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r12g2000vbd.googlegroups.com; posting-host=99.65.160.151; posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.16)
 Gecko/20101123 SeaMonkey/2.0.11,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:2714
rec.radio.amateur.homebrew:4443

On Feb 16, 3:20=A0pm, "Percival P. Cassidy" <Nob...@NotMyISP.com> wrote:
> On 02/16/11 10:15 am, raypsi wrote:
>
> <snip>
>
> > ... I built a flooded lead acid charger. I only bought one part the
> > IC UC3906, I already had a solderless breadboard, the resistors and
> > capacitors in my junk drawer
> > The hardest part was figuring the resistor values and how to make
> > those values, and that was easy.
> > The heatsink fan came from an old CPU fan heatsink, and I mounted the
> > pass transistor to that heatsink fan.
> > I think that the UC3906 was the best think since sliced bread
>
> I've seen schematics and board layouts for SLA chargers based on the
> UC3906. VK3EM's uses SMT components, while N5BIA's uses discrete
> components -- but both are only for charging currents of 2A or so.
>
> For what current did you build yours? If high-current, what pass
> transistor(s) did you use?
>
> N5BIA offers a kit, and I was wondering whether this could be beefed up
> to handle 25A by adding 12ga wire to all the charging-current traces and

> substituting higher-current pass transistor(s). I'd have to recalculate
> the resistor values to suit a flooded battery, of course. And what about
> using a P-channel MOSFET device, such as the STP80PF55 that the "Micro
> M+" uses?
>
> "Perce"

There is no design on the internet for charging a flooded lead acid battery at the levels I use. There is a reason for this it's called lithium ion cells.

I used to make a living selling NTE parts. NTE always bought the cream of the JAN type transistors, so they could sub tonnes of transistors with one number. When the regulator went south on my car alternator I used a NTE180 to drive the field winding with a zener regulator I mounted the heat sink right to the positive side of the battery; when that car died the day the big tsunami hit back on boxer day 2005 I took the NTE180 out.

I use an NTE180 30 amp PNP transistor and 1 foot of 14 gauge wire to set up the main charge current, I use a 23amp PS from the filtered unregulated side to the input of the 14 gauge wire to collector of the PNP. the UC3906 looks at the voltage across the 14ga. wire and directly drives the PNP. I snake the wires for the emitter and base of the PNP thru the heatsink fins. I used the TI data sheet for the UC3906 to calculate the settings for the different charge cycles.
The 14 ga wire and the pass transistor are the only off the solderless board parts
I wound the 14 ga wire in a pancake style coil so it fits right over the heat sink

I had to use single turn trim pots and series resistors to set the different charge cycles from the equations provided by the data sheet on the UC3906

I did alot of research on my power supply, the others that used a UC3906 on the internet could not be used to recalculate the resistor values for the UC3906 for a large flooded lead acid battery. There were to many mistakes as I found out.
Using the TI data sheet, is the best way to go, it looks like rocket science but it's easy.\\

73 OM
de n8zu

```
From -5892411592846623738
X-Google-Thread: 112d1e,c2fdf0234367314f,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f,start
```

X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: help designing gimmick capacitor
Date: Sun, 20 Feb 2011 09:20:12 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3664
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3664
X-Antivirus: avast! (VPS 110220-0, 02/20/2011), Outbound message
X-Antivirus-Status: Clean
Message-ID: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 33
X-Trace: 2c0164d6130ecbd49c87214303
Xref: g2news2.google.com sci.electronics.design:230869 rec.radio.amateur.homebrew:4444

Hi all,
I finished the amp that had the 5 Ghz transistor, I changed it to a slower one.
The objective of this amp is to cause minimal loading of the circuit it is measuring.
When I install the box cover the voltage gain drops by 7%, so I think the input capacitor
plate is being loaded by the cover.
The input capacitor plates can be seen here;

http://i395.photobucket.com/albums/pp37/Qmavam/1cmx1cmspaced5mm.jpg

The plates are 1 cm x 1 cm spaced 5 mm apart.

I have thoughts about rectangular plates 0.25 cm x 4 cm to get more distance from the top cover, (and the bottom.)
Or a real gimmick cap where I twist a couple of 39 Gauge wires together and attach opposite ends to input and output.

Any ideas to minimize input capacitance to the box?

Here's the amp in box.
http://i395.photobucket.com/albums/pp37/Qmavam/Kleijerampinbox.jpg

This is the original circuit page with schematic;
http://www.crystal-radio.eu/enfetamp.htm
Thanks, Mike

PS, I was having trouble getting some close-up pictures, I grabbed a
magnifying glass and took some
pictures through that, works good.

```
From -4284455417267432628
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!u12g2000vbf.googlegroups.com!not-for-
mail
From: dagmargoodboat@yahoo.com
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Sun, 20 Feb 2011 07:52:18 -0800 (PST)
Organization: http://groups.google.com
Lines: 45
Message-ID: <77047df4-a98f-4ccc-b17b-cf8086cec7fa@u12g2000vbf.googlegroups.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
NNTP-Posting-Host: 74.248.192.6
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1298217138 14667 127.0.0.1 (20 Feb 2011 15:52:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 20 Feb 2011 15:52:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u12g2000vbf.googlegroups.com; posting-host=74.248.192.6; posting-
account=v0yXBAoAAAC5ZmBMLYL75O6CVqNhBfrj
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.2)
 Gecko/20090729 Firefox/3.5.2,gzip(gfe)
Xref: g2news1.google.com sci.electronics.design:216164
rec.radio.amateur.homebrew:4148

On Feb 20, 10:20=A0am, "amdx" <a...@knology.net> wrote:
> Hi all,
> =A0I finished the amp that had the 5 Ghz transistor, I changed it to a sl=
ower
> one.
> =A0The objective of this amp is to cause minimal loading of the circuit i=
t is
> measuring.
> When I install the box cover the voltage gain drops by 7%, so I think the
> input capacitor
> plate is being loaded by the cover.
> The input capacitor plates can be seen here;
>
```

```
> http://i395.photobucket.com/albums/pp37/Qmavam/1cmx1cmspaced5mm.jpg
>
> The plates are 1 cm x 1 cm spaced 5 mm apart.
>
> I have thoughts about =A0rectangular plates 0.25 cm x 4 cm to get more
> distance from the top cover, (and the bottom.)
> =A0Or a real gimmick cap where I twist a couple of 39 Gauge wires togethe=
r and
> attach opposite ends to input and output.
>
> =A0 Any ideas to minimize input capacitance to the box?
>
> =A0Here's the amp in box.http://i395.photobucket.com/albums/pp37/Qmavam/K=
leijerampinbox.jpg
>
> This is the original circuit page with schematic;http://www.crystal-radio=
.eu/enfetamp.htm
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0Thanks, Mike
>
> PS, I was having trouble getting some close-up pictures, I grabbed a
> magnifying glass and took some
> pictures through that, works good.

The old-tyme gimmick was two wires, twisted together.  That would
contain the field better than your open plates.

Another alternative: you could surround your cap with a shield and
drive the shield from the FET source, bootstrapping it.

--
Cheers,
James Arthur



From -808781692820692210
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news1.google.com!npeer03.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
post01.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET> <77047df4-a98f-4ccc-b17b-
cf8086cec7fa@u12g2000vbf.googlegroups.com>
Subject: Re: help designing gimmick capacitor
Date: Sun, 20 Feb 2011 10:14:37 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3664
```

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X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3664
X-Antivirus: avast! (VPS 110220-0, 02/20/2011), Outbound message
X-Antivirus-Status: Clean
Message-ID: <1fcba$4d613df4$18ec6dd7$20370@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 60
X-Trace: 1fcba4d613df4bd49c87220370
Xref: g2news1.google.com sci.electronics.design:216167
rec.radio.amateur.homebrew:4149


<dagmargoodboat@yahoo.com> wrote in message
news:77047df4-a98f-4ccc-b17b-cf8086cec7fa@u12g2000vbf.googlegroups.com...
On Feb 20, 10:20 am, "amdx" <a...@knology.net> wrote:
> Hi all,
> I finished the amp that had the 5 Ghz transistor, I changed it to a slower
> one.
> The objective of this amp is to cause minimal loading of the circuit it is
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> When I install the box cover the voltage gain drops by 7%, so I think the
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> plate is being loaded by the cover.
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> http://i395.photobucket.com/albums/pp37/Qmavam/1cmx1cmspaced5mm.jpg
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>
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> box.http://i395.photobucket.com/albums/pp37/Qmavam/Kleijerampinbox.jpg
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> schematic;http://www.crystal-radio.eu/enfetamp.htm
> Thanks, Mike
>
> PS, I was having trouble getting some close-up pictures, I grabbed a
> magnifying glass and took some
> pictures through that, works good.
.......................................
>The old-tyme gimmick was two wires, twisted together.  That would
>contain the field better than your open plates.

>Another alternative: you could surround your cap with a shield and
```

>drive the shield from the FET source, bootstrapping it.

>--
>Cheers,
>James Arthur

Hi James,
The twisted pair may be the easiest, but as a thought, if I took a piece of coax and
removed the center conductor leaving just the shield, then inserted a twisted pair as my capacitor.
I then connect the shield the FET source, Ok, I have never bootstrapped before, but wouldn't I
then have a higher potential than desired, even a possibility of oscillation?
Mikek
PS. Do I have any concern about inductive coupling with a twisted pair?

```
From -1935714417111797506
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!x11g2000yqc.googlegroups.com!not-for-
mail
From: dagmargoodboat@yahoo.com
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Sun, 20 Feb 2011 08:46:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 81
Message-ID: <570afcef-5600-4f89-9cb3-e45db0759566@x11g2000yqc.googlegroups.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET> <77047df4-a98f-4ccc-b17b-
cf8086cec7fa@u12g2000vbf.googlegroups.com>
 <1fcba$4d613df4$18ec6dd7$20370@KNOLOGY.NET>
NNTP-Posting-Host: 74.248.192.6
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1298220388 18992 127.0.0.1 (20 Feb 2011 16:46:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 20 Feb 2011 16:46:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x11g2000yqc.googlegroups.com; posting-host=74.248.192.6; posting-
account=v0yXBAoAAAC5ZmBMLYL75O6CVqNhBfrj
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.2)
 Gecko/20090729 Firefox/3.5.2,gzip(gfe)
```

```
Xref: g2news2.google.com sci.electronics.design:230884
rec.radio.amateur.homebrew:4447

On Feb 20, 11:14=A0am, "amdx" <a...@knology.net> wrote:
> <dagmargoodb...@yahoo.com> wrote in message
>
> news:77047df4-a98f-4ccc-b17b-cf8086cec7fa@u12g2000vbf.googlegroups.com...
> On Feb 20, 10:20 am, "amdx" <a...@knology.net> wrote:
>
> > Hi all,
> > I finished the amp that had the 5 Ghz transistor, I changed it to a slo=
wer
> > one.
> > The objective of this amp is to cause minimal loading of the circuit it=
 is
> > measuring.
> > When I install the box cover the voltage gain drops by 7%, so I think t=
he
> > input capacitor
> > plate is being loaded by the cover.
> > The input capacitor plates can be seen here;
>
> >http://i395.photobucket.com/albums/pp37/Qmavam/1cmx1cmspaced5mm.jpg
>
> > The plates are 1 cm x 1 cm spaced 5 mm apart.
>
> > I have thoughts about rectangular plates 0.25 cm x 4 cm to get more
> > distance from the top cover, (and the bottom.)
> > Or a real gimmick cap where I twist a couple of 39 Gauge wires together
> > and
> > attach opposite ends to input and output.
>
> > Any ideas to minimize input capacitance to the box?
>
> > Here's the amp in
> > box.http://i395.photobucket.com/albums/pp37/Qmavam/Kleijerampinbox.jpg
>
> > This is the original circuit page with
> > schematic;http://www.crystal-radio.eu/enfetamp.htm
> > Thanks, Mike
>
> > PS, I was having trouble getting some close-up pictures, I grabbed a
> > magnifying glass and took some
> > pictures through that, works good.
>
> ......................................
>
> >The old-tyme gimmick was two wires, twisted together. =A0That would
> >contain the field better than your open plates.
> >Another alternative: you could surround your cap with a shield and
> >drive the shield from the FET source, bootstrapping it.
r
>
```

> =A0 Hi James,
> =A0 The twisted pair may be the easiest, but as a thought, if I took a pi=
ece
> of coax and
> removed the center conductor leaving just the shield, then inserted a
> twisted pair as my capacitor.

That's too tight a box, and the dielectric screws things up--you'll be
making shunt caps to the shield.

> =A0I then connect the shield the FET source, Ok, I have never bootstrappe=
d
> before, but wouldn't I
> then have a higher potential than desired, even a possibility of
> oscillation?

Higher potential? No. Possibility of oscillation? Yes, but not
likely. Keep the shield well clear of the gimmick to minimize that.

Just the twisted gimmick itself is probably all you'll need. The
bootstrapping is lagniappe.

> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0Mikek
> =A0PS. Do I have any concern about inductive coupling with a twisted pair=
?

Nope.

--
Cheers,
James Arthur

From -8230117335234613225
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 20 Feb 2011 11:41:44 -0600
From: John Larkin <jjlarkin@highNOTlandTHIStechnologyPART.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Sun, 20 Feb 2011 09:39:39 -0800
Message-ID: <noj2m6p3q2kra0rpkp9cm6l0jicce2s8rl@4ax.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

```
Content-Transfer-Encoding: 7bit
Lines: 49
X-Trace: sv3-JcqPQXt3UBls3gRNMQoBuCNt4KkF+tqnmICldy0ZBY6Bz7NS/
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z6R3EqIV4akCSiDnWoVDDidrPmVTx6m9GdG+vpUOK9wTsnhkGgxWj4yWQz81W4jaLqW6fR2tXB6w!K7DM
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2724
Xref: g2news2.google.com sci.electronics.design:230896
rec.radio.amateur.homebrew:4448

On Sun, 20 Feb 2011 09:20:12 -0600, "amdx" <amdx@knology.net> wrote:

>Hi all,
> I finished the amp that had the 5 Ghz transistor, I changed it to a slower
>one.
> The objective of this amp is to cause minimal loading of the circuit it is
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>When I install the box cover the voltage gain drops by 7%, so I think the
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>plate is being loaded by the cover.
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>
>http://i395.photobucket.com/albums/pp37/Qmavam/1cmx1cmspaced5mm.jpg
>
>The plates are 1 cm x 1 cm spaced 5 mm apart.
>
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>distance from the top cover, (and the bottom.)
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>  Any ideas to minimize input capacitance to the box?
>
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>http://i395.photobucket.com/albums/pp37/Qmavam/Kleijerampinbox.jpg
>
>This is the original circuit page with schematic;
>http://www.crystal-radio.eu/enfetamp.htm
>               Thanks, Mike
>
>PS, I was having trouble getting some close-up pictures, I grabbed a
>magnifying glass and took some
>pictures through that, works good.
>

Use a real surface-mount 0.3 pF cap, or a homemade coaxial cap. The 1
cm square plates are too big and have their own capacitance to the
world.
```

Bootstrap the drain of Q1.

"T" means transformer, which shows that this circuit was done by an
amateur. All that tricky stuff could be replaced by one opamp.

It could have close to zero Cin with a little positive feedback.

John

```
From 8394580993895110712
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!e21g2000yqe.googlegroups.com!not-for-
mail
From: dagmargoodboat@yahoo.com
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Sun, 20 Feb 2011 10:13:12 -0800 (PST)
Organization: http://groups.google.com
Lines: 70
Message-ID: <fe489f0d-5b50-4959-9600-83ef5a42278a@e21g2000yqe.googlegroups.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<noj2m6p3q2kra0rpkp9cm6l0jicce2s8rl@4ax.com>
NNTP-Posting-Host: 74.248.192.6
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1298225592 3128 127.0.0.1 (20 Feb 2011 18:13:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 20 Feb 2011 18:13:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e21g2000yqe.googlegroups.com; posting-host=74.248.192.6; posting-
account=v0yXBAoAAAC5ZmBMLYL75O6CVqNhBfrj
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.2)
 Gecko/20090729 Firefox/3.5.2,gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:230900
rec.radio.amateur.homebrew:4449
```

On Feb 20, 12:39=A0pm, John Larkin
<jjlar...@highNOTlandTHIStechnologyPART.com> wrote:
> On Sun, 20 Feb 2011 09:20:12 -0600, "amdx" <a...@knology.net> wrote:
> >Hi all,
> > I finished the amp that had the 5 Ghz transistor, I changed it to a slo=
wer

> >one.
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>
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>
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 and
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> >http://i395.photobucket.com/albums/pp37/Qmavam/Kleijerampinbox.jpg
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> >magnifying glass and took some
> >pictures through that, works good.
>
> Use a real surface-mount 0.3 pF cap, or a homemade coaxial cap. The 1
> cm square plates are too big and have their own capacitance to the
> world.

For that matter the tiny input cap in Mike's circuit is
counterproductive--it divides the signal down and makes the gain
unpredictable.

Better: use 10pF coupling, lose less at the input, and use less gain
later. Bootstrap the FET so the input sees very low C. Do those and
you don't even need a gimmick.

> Bootstrap the drain of Q1.
>
> "T" means transformer, which shows that this circuit was done by an
> amateur. All that tricky stuff could be replaced by one opamp.
>
> It could have close to zero Cin with a little positive feedback.
>

> John

I like the one at the top of pg. 2:
http://www.national.com/an/AN/AN-32.pdf

1970--a classic.

--
Cheers,
James Arthur

```
From 6536728191804716438
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
weretis.net!feeder3.news.weretis.net!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: John - KD5YI <sophi.2@invalid.org>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Sun, 20 Feb 2011 12:35:02 -0600
Organization: A noiseless patient Spider
Lines: 76
Message-ID: <ijrmsm$ea3$1@news.eternal-september.org>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<noj2m6p3q2kra0rpkp9cm6l0jicce2s8rl@4ax.com>
<fe489f0d-5b50-4959-9600-83ef5a42278a@e21g2000yqe.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sun, 20 Feb 2011 18:35:03 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="R1JcZqQrnJVzF0KrDRtdjQ";
     logging-data="14659"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX180qnFDXSZaAkZwcxTZkcMe"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.13) Gecko/
20101207 Thunderbird/3.1.7
In-Reply-To: <fe489f0d-5b50-4959-9600-83ef5a42278a@e21g2000yqe.googlegroups.com>
Cancel-Lock: sha1:UFUEMn2m7DUzdfD3Ncg8KKHsEA4=
Xref: g2news2.google.com sci.electronics.design:230907
rec.radio.amateur.homebrew:4450
```

On 2/20/2011 12:13 PM, dagmargoodboat@yahoo.com wrote:
> On Feb 20, 12:39 pm, John Larkin
> <jjlar...@highNOTlandTHIStechnologyPART.com> wrote:
>> On Sun, 20 Feb 2011 09:20:12 -0600, "amdx"<a...@knology.net> wrote:
>>> Hi all,
>>> I finished the amp that had the 5 Ghz transistor, I changed it to a slower

>>> one.
>>> The objective of this amp is to cause minimal loading of the circuit it is
>>> measuring.
>>> When I install the box cover the voltage gain drops by 7%, so I think the
>>> input capacitor
>>> plate is being loaded by the cover.
>>> The input capacitor plates can be seen here;
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>>> The plates are 1 cm x 1 cm spaced 5 mm apart.
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>>> I have thoughts about rectangular plates 0.25 cm x 4 cm to get more
>>> distance from the top cover, (and the bottom.)
>>> Or a real gimmick cap where I twist a couple of 39 Gauge wires together and
>>> attach opposite ends to input and output.
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>>> http://www.crystal-radio.eu/enfetamp.htm
>>>   Thanks, Mike
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>>> PS, I was having trouble getting some close-up pictures, I grabbed a
>>> magnifying glass and took some
>>> pictures through that, works good.
>>
>> Use a real surface-mount 0.3 pF cap, or a homemade coaxial cap. The 1
>> cm square plates are too big and have their own capacitance to the
>> world.
>
> For that matter the tiny input cap in Mike's circuit is
> counterproductive--it divides the signal down and makes the gain
> unpredictable.
>
> Better: use 10pF coupling, lose less at the input, and use less gain
> later. Bootstrap the FET so the input sees very low C. Do those and
> you don't even need a gimmick.
>
>
>> Bootstrap the drain of Q1.
>>
>> "T" means transformer, which shows that this circuit was done by an
>> amateur. All that tricky stuff could be replaced by one opamp.
>>
>> It could have close to zero Cin with a little positive feedback.
>>
>> John
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> I like the one at the top of pg. 2:

> http://www.national.com/an/AN/AN-32.pdf
>
> 1970--a classic.
>
>
> --
> Cheers,
> James Arthur

Warning!

The 2N3644 is a PNP. The app note probably meant some other type number
similar to that in an NPN.

Cheers,
John

From 7802547174860962245
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
94.75.214.39.MISMATCH!aioe.org!.POSTED!not-for-mail
From: FigureItOut <LocusPocus@magicregion.org>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Sun, 20 Feb 2011 10:48:49 -0800
Organization: Iseeseeyouseesee.org
Lines: 8
Message-ID: <9fo2m6hrjti4ldr0enenoh2hujl28ecvuq@4ax.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
Reply-To: Simon
NNTP-Posting-Host: q/lsrDyVMp/7uX+cbx8qaA.user.speranza.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Notice: Filtered by postfilter v. 0.8.2
X-Newsreader: Forte Agent 4.2/32.1118
Xref: g2news2.google.com sci.electronics.design:230909
rec.radio.amateur.homebrew:4451

On Sun, 20 Feb 2011 09:20:12 -0600, "amdx" <amdx@knology.net> wrote:

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>The plates are 1 cm x 1 cm spaced 5 mm apart.

  Ever consider simply using a proper air core variable cap?

From -8475584875051902980
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 20 Feb 2011 13:18:40 -0600
From: John Larkin <jjlarkin@highNOTlandTHIStechnologyPART.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Sun, 20 Feb 2011 11:16:34 -0800
Message-ID: <c3q2m65vc908hicfqs1ua14q5q213qv61p@4ax.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<noj2m6p3q2kra0rpkp9cm6l0jicce2s8rl@4ax.com>
<fe489f0d-5b50-4959-9600-83ef5a42278a@e21g2000yqe.googlegroups.com>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 108
X-Trace: sv3-7KNnGelnSmJaASMZKuorSIUgqkrE0gT7JSit3IHY9+o8v0AE4foYFUbLjAUk/
02MpY0WHNjmiuDxHn7!
WLG7wGAxNccvEzBScpDrvGFEO5dy7VXvEjtkJkxrHhwTkGcRtoHDySwZu8wc0Sx1u/sQuMwToU0r!vRYu
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 4574
Xref: g2news2.google.com sci.electronics.design:230915
rec.radio.amateur.homebrew:4452

On Sun, 20 Feb 2011 10:13:12 -0800 (PST), dagmargoodboat@yahoo.com
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>> >http://www.crystal-radio.eu/enfetamp.htm

One gotcha: with +12 on the drain of the jfet, expect a lot of gate
current. Hot carriers or some such.

>> > � � � � � � � Thanks, Mike
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>> >PS, I was having trouble getting some close-up pictures, I grabbed a
>> >magnifying glass and took some
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>> "T" means transformer, which shows that this circuit was done by an
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>> John

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>I like the one at the top of pg. 2:
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>
>1970--a classic.

If the jfet drives a non-inverting opamp with gain, one could over-bootstrap the drain to hit zero or even negative input capacitance; tweak that with a pot or a small variable cap. Then, as you say, dump the 0.3 pF input cap and have predictable gain.

Phil Hobbs likes this:

```
             +-----------+-----Vcc
             |           |
             |           |
             |           R
             |           |
             c           |
              b----+-----+   < ~~ +3V
             e     |     |
             |     |     |
             |     |     |
             d     C     R
in----------g     |     |
             s     |     |
             |     |    gnd
             |     |
             +-----+-----------out
             |
             |
             |
             R  < or current sink
             |
             |
             |
            Vee
```

John

From -7015445804346834896
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail

From: "amdx" <amdx@knology.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<noj2m6p3q2kra0rpkp9cm6l0jicce2s8rl@4ax.com>
Subject: Re: help designing gimmick capacitor
Date: Sun, 20 Feb 2011 13:44:37 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-Antivirus: avast! (VPS 110220-1, 02/20/2011), Outbound message
X-Antivirus-Status: Clean
Message-ID: <4bc8b$4d616f82$d8baf3b7$484@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 71
X-Trace: 4bc8b4d616f827d1f561200484
Xref: g2news2.google.com sci.electronics.design:230921
rec.radio.amateur.homebrew:4453

"John Larkin" <jjlarkin@highNOTlandTHIStechnologyPART.com> wrote in message
news:noj2m6p3q2kra0rpkp9cm6l0jicce2s8rl@4ax.com...
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> Bootstrap the drain of Q1.
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> "T" means transformer, which shows that this circuit was done by an
> amateur. All that tricky stuff could be replaced by one opamp.
>
> It could have close to zero Cin with a little positive feedback.
>
> John
>

    > Bootstrap the drain of Q1.
You need to walk me through that, (I'm an amateur)

Ah, he's done some nice work on the subject of crystal radios and high Q
inductors.
http://www.crystal-radio.eu/index.html
Page down to experiment with LC circuits.

 > It could have close to zero Cin with a little positive feedback.

 How much closer? If the input cap is 0.3pf what do you the input impedance
is?
Input is 0.3pf, 20 Meg to ground driving FET gate.
                                  Thanks, Mikek

```
From 335937879334061419
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
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mail
From: dagmargoodboat@yahoo.com
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
```

```
Date: Sun, 20 Feb 2011 12:17:38 -0800 (PST)
Organization: http://groups.google.com
Lines: 86
Message-ID: <12a16734-b4e5-471d-ae42-7eb3311efbe3@w36g2000vbi.googlegroups.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<noj2m6p3q2kra0rpkp9cm6l0jicce2s8rl@4ax.com>
 <fe489f0d-5b50-4959-9600-83ef5a42278a@e21g2000yqe.googlegroups.com>
<ijrmsm$ea3$1@news.eternal-september.org>
NNTP-Posting-Host: 74.248.192.6
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1298233059 8088 127.0.0.1 (20 Feb 2011 20:17:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 20 Feb 2011 20:17:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w36g2000vbi.googlegroups.com; posting-host=74.248.192.6; posting-
account=v0yXBAoAAAC5ZmBMLYL75O6CVqNhBfrj
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.2)
 Gecko/20090729 Firefox/3.5.2,gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:230924
rec.radio.amateur.homebrew:4454

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>
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> >>> Hi all,
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>
> > 1970--a classic.
>
> > --
> > Cheers,
> > James Arthur
>
> Warning!
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> The 2N3644 is a PNP. The app note probably meant some other type number
> similar to that in an NPN.

Good catch.  The follower can be most anything, but not PNP!
```

```
--
Cheers,
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From 6356803015730445015
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<9fo2m6hrjti4ldr0enenoh2hujl28ecvuq@4ax.com>
Subject: Re: help designing gimmick capacitor
Date: Sun, 20 Feb 2011 14:26:42 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-Antivirus: avast! (VPS 110220-1, 02/20/2011), Outbound message
X-Antivirus-Status: Clean
Message-ID: <be7d$4d61790b$d8baf3b7$3554@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 17
X-Trace: 0be7d4d61790b7d1f561203554
Xref: g2news2.google.com sci.electronics.design:230925
rec.radio.amateur.homebrew:4455


"FigureItOut" <LocusPocus@magicregion.org> wrote in message
news:9fo2m6hrjti4ldr0enenoh2hujl28ecvuq@4ax.com...
> On Sun, 20 Feb 2011 09:20:12 -0600, "amdx" <amdx@knology.net> wrote:
>
>>http://i395.photobucket.com/albums/pp37/Qmavam/1cmx1cmspaced5mm.jpg
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>>The plates are 1 cm x 1 cm spaced 5 mm apart.
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>  Ever consider simply using a proper air core variable cap?

You have any 0.3pf  air variables.
Why is this one improper?
               Mikek
```

```
From 7435216476073528707
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!t13g2000vbo.googlegroups.com!not-for-
mail
From: dagmargoodboat@yahoo.com
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Sun, 20 Feb 2011 12:30:07 -0800 (PST)
Organization: http://groups.google.com
Lines: 125
Message-ID: <b93f1872-c7a3-4f93-8873-91d591e9e658@t13g2000vbo.googlegroups.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<noj2m6p3q2kra0rpkp9cm6l0jicce2s8rl@4ax.com>
 <4bc8b$4d616f82$d8baf3b7$484@KNOLOGY.NET>
NNTP-Posting-Host: 74.248.192.6
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
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X-Trace: posting.google.com 1298233807 15120 127.0.0.1 (20 Feb 2011 20:30:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 20 Feb 2011 20:30:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t13g2000vbo.googlegroups.com; posting-host=74.248.192.6; posting-
account=v0yXBAoAAAC5ZmBMLYL75O6CVqNhBfrj
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.2)
 Gecko/20090729 Firefox/3.5.2,gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:230927
rec.radio.amateur.homebrew:4456

On Feb 20, 2:44=A0pm, "amdx" <a...@knology.net> wrote:
> "John Larkin" <jjlar...@highNOTlandTHIStechnologyPART.com> wrote in messa=
ge
>
> news:noj2m6p3q2kra0rpkp9cm6l0jicce2s8rl@4ax.com...
>
>
>
> > On Sun, 20 Feb 2011 09:20:12 -0600, "amdx" <a...@knology.net> wrote:
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> > "T" means transformer, which shows that this circuit was done by an
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> Ah, he's done some nice work on the subject of crystal radios and high Q
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> Page down to experiment with LC circuits.
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> =A0> It could have close to zero Cin with a little positive feedback.
>
> =A0How much closer? If the input cap is 0.3pf what do you the input imped=
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> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Thank=
s, Mikek

We're talking about something roughly like this:

```
    +12V >-o-----o-----------.
           |     |           |
           |     |           |
           |     |       R5 3.3M
           |     |Q2         |
           |      \|         |        V1
           |       |---o-----o   <~~ ~=3D+3V
           |     .<|   |     |
           |     |     |  R6 1M
          R3     |     |     |
    C1     |     |     |C3  =3D=3D=3D
    10pF   | g |-'d   ---
in--||--o--|-->|      ---
        |  |   |-.s    |100n
    R1 10M |     |Q1   |
        |  |     |     |
        o--o-||--o-----o-----------out
        |    C2  |
    R2 10M  100nF|
        |        |
       =3D=3D=3D   R4 470 R
                 |
                 |
                =3D=3D=3D
```

C2 drives the center of the input bias resistor, which cancels the loading caused by R1-R2. This is called "bootstrapping".

Q2 does the same thing for the drain terminal--it causes the drain terminal to go up and down with the input signal. That saves the input signal from having to charge Q1's gate-to-drain capacitance, effectively making that capacitance disappear.

This front-end has *much* higher impedance than the original, and a predictable gain that's close to 1.

R3 is to bias the FET output to (V1)/2, for maximum dynamic range. Higher V1 would give bigger dynamic range.

A cheapskate could put a resistor in Q2's collector and use it as a voltage-gain stage too.

```
--
Cheers,
James Arthur


From -3257857302886599936
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!p12g2000vbo.googlegroups.com!not-for-
mail
From: dagmargoodboat@yahoo.com
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Sun, 20 Feb 2011 12:49:49 -0800 (PST)
Organization: http://groups.google.com
Lines: 129
Message-ID: <7f6a1b6e-74a1-4ecd-b426-8c12cecc4862@p12g2000vbo.googlegroups.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<noj2m6p3q2kra0rpkp9cm6l0jicce2s8rl@4ax.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 20 Feb 2011 20:49:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p12g2000vbo.googlegroups.com; posting-host=74.248.192.6; posting-
account=v0yXBAoAAAC5ZmBMLYL75O6CVqNhBfrj
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.2)
 Gecko/20090729 Firefox/3.5.2,gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:230929
rec.radio.amateur.homebrew:4457

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```

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>
> We're talking about something roughly like this:
>
> =A0 =A0 +12V >-o-----o-----------.
> =A0 =A0 =A0 =A0 =A0 =A0| =A0 =A0 | =A0 =A0 =A0 =A0 =A0 |
> =A0 =A0 =A0 =A0 =A0 =A0| =A0 =A0 | =A0 =A0 =A0 =A0 =A0 |
> =A0 =A0 =A0 =A0 =A0 =A0| =A0 =A0 | =A0 =A0 =A0 R5 3.3M
> =A0 =A0 =A0 =A0 =A0 =A0| =A0 =A0 |Q2 =A0 =A0 =A0 =A0 |
> =A0 =A0 =A0 =A0 =A0 =A0| =A0 =A0 =A0\| =A0 =A0 =A0 =A0 | =A0 =A0 =A0 =A0V=
1
> =A0 =A0 =A0 =A0 =A0 =A0| =A0 =A0 =A0 |---o-----o =A0 <~~ ~=3D+3V
> =A0 =A0 =A0 =A0 =A0 =A0| =A0 =A0 .<| =A0 | =A0 =A0 |
> =A0 =A0 =A0 =A0 =A0 =A0| =A0 =A0 | =A0 =A0 | =A0R6 1M
> =A0 =A0 =A0 =A0 =A0 R3 =A0 =A0 | =A0 =A0 | =A0 =A0 |
> =A0 =A0 C1 =A0 =A0 | =A0 =A0 | =A0 =A0 |C3 =A0=3D=3D=3D
> =A0 =A0 10pF =A0 | g |-'d =A0 ---
> in--||--o--|-->| =A0 =A0 =A0---
> =A0 =A0 =A0 =A0 | =A0| =A0 |-.s =A0 =A0|100n
> =A0 =A0 R1 10M | =A0 =A0 |Q1 =A0 |
> =A0 =A0 =A0 =A0 | =A0| =A0 =A0 | =A0 =A0 |
> =A0 =A0 =A0 =A0 o--o-||--o-----o-----------out
> =A0 =A0 =A0 =A0 | =A0 =A0C2 =A0|
> =A0 =A0 R2 10M =A0100nF|
> =A0 =A0 =A0 =A0 | =A0 =A0 =A0 =A0|
> =A0 =A0 =A0 =A0=3D=3D=3D =A0 R4 470 R
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0|
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0|
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> A cheapskate could put a resistor in Q2's collector and use it as a
> voltage-gain stage too.

Oh, I didn't calculate the biasing, so R4's probably wrong.

--James

From -916735503602835730
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<noj2m6p3q2kra0rpkp9cm6l0jicce2s8rl@4ax.com>
<fe489f0d-5b50-4959-9600-83ef5a42278a@e21g2000yqe.googlegroups.com>
Subject: Re: help designing gimmick capacitor
Date: Sun, 20 Feb 2011 14:56:07 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-Antivirus: avast! (VPS 110220-1, 02/20/2011), Outbound message
X-Antivirus-Status: Clean
Message-ID: <b72e1$4d617fef$d8baf3b7$5696@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 65
X-Trace: b72e14d617fef7d1f561205696
Xref: g2news2.google.com sci.electronics.design:230930
rec.radio.amateur.homebrew:4458

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news:fe489f0d-5b50-4959-9600-83ef5a42278a@e21g2000yqe.googlegroups.com...
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> cm square plates are too big and have their own capacitance to the
> world.
....
>For that matter the tiny input cap in Mike's circuit is
>counterproductive--it divides the signal down and makes the gain
>unpredictable.

It's not so inpredictable, I set the amplifier gain at 17 and then
adjusted
the capacitor spacing for a total amplifier gain of 1.
I'm not being argumentive, just trying understand.

>Better: use 10pF coupling, lose less at the input, and use less gain
>later. Bootstrap the FET so the input sees very low C. Do those and
>you don't even need a gimmick.

I need to know more about bootstraping.
Also doesn't the 0.3pf cap reduce the loading effect of the 20 Meg resistor?

Thanks, Mikek

```
From 2663109353013952819
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: Baron <baron@linuxmaniac.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Sun, 20 Feb 2011 21:01:46 +0000
Organization: The Listner
Lines: 42
Message-ID: <ijrvbr$f5u$1@news.eternal-september.org>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
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q?=5CM3Zf=27=5E0=5Fu=5Cn=7C=3Ap=27GJl=5Co2Z4Mt=23=0A=09m?
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Cancel-Lock: sha1:YAvHpaR1A6gb86I595dsY71uaEQ=
Xref: g2news1.google.com sci.electronics.design:216221
rec.radio.amateur.homebrew:4162
```

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Change to a co-axial cap.

--
Best Regards:
                          Baron.

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X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
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X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
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Lines: 89
Message-ID: <59dff1da-a984-4bf9-95cd-ad5bc6d591ff@d16g2000yqd.googlegroups.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<noj2m6p3q2kra0rpkp9cm6l0jicce2s8rl@4ax.com>
 <fe489f0d-5b50-4959-9600-83ef5a42278a@e21g2000yqe.googlegroups.com>
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```
NNTP-Posting-Host: 74.248.192.6
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1298238047 22191 127.0.0.1 (20 Feb 2011 21:40:47 GMT)
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Xref: g2news2.google.com sci.electronics.design:230935
rec.radio.amateur.homebrew:4460

On Feb 20, 3:56=A0pm, "amdx" <a...@knology.net> wrote:
> <dagmargoodb...@yahoo.com> wrote in message
>
> news:fe489f0d-5b50-4959-9600-83ef5a42278a@e21g2000yqe.googlegroups.com...
> On Feb 20, 12:39 pm, John Larkin
>
> <jjlar...@highNOTlandTHIStechnologyPART.com> wrote:
> > On Sun, 20 Feb 2011 09:20:12 -0600, "amdx" <a...@knology.net> wrote:
> > >Hi all,
> > > I finished the amp that had the 5 Ghz transistor, I changed it to a
> > > slower
> > >one.
> > > The objective of this amp is to cause minimal loading of the circuit =
it
> > > is
> > >measuring.
> > >When I install the box cover the voltage gain drops by 7%, so I think =
the
> > >input capacitor
> > >plate is being loaded by the cover.
> > >The input capacitor plates can be seen here;
>
> > >http://i395.photobucket.com/albums/pp37/Qmavam/1cmx1cmspaced5mm.jpg
>
> > >The plates are 1 cm x 1 cm spaced 5 mm apart.
>
> > >I have thoughts about rectangular plates 0.25 cm x 4 cm to get more
> > >distance from the top cover, (and the bottom.)
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> > > and
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>
> > > Any ideas to minimize input capacitance to the box?
>
> > > Here's the amp in box.
> > >http://i395.photobucket.com/albums/pp37/Qmavam/Kleijerampinbox.jpg
```

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> > >This is the original circuit page with schematic;
> > >http://www.crystal-radio.eu/enfetamp.htm
> > > Thanks, Mike
>
> > >PS, I was having trouble getting some close-up pictures, I grabbed a
> > >magnifying glass and took some
> > >pictures through that, works good.
>
> > Use a real surface-mount 0.3 pF cap, or a homemade coaxial cap. The 1
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> > world.
>
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>
> >For that matter the tiny input cap in Mike's circuit is
> >counterproductive--it divides the signal down and makes the gain
> >unpredictable.
>
> =A0 It's not so inpredictable, I set the amplifier gain at 17 and then
> adjusted
> the capacitor spacing for a total amplifier gain of 1.
> =A0I'm not being argumentive, just trying understand.

The input gain of the original circuit depends on the voltage divider
comprising your gimmick cap, on the one hand, and the FET's
capacitance on the other.

No two FETs will have the same capacitance, so you can't know in
advance exactly what the circuit's gain will be. That's why you have
to tweak it via the input capacitor right now.

> >Better: use 10pF coupling, lose less at the input, and use less gain
> >later. =A0Bootstrap the FET so the input sees very low C. =A0Do those an=
d
> >you don't even need a gimmick.
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> I need to know more about bootstraping.
> Also doesn't the 0.3pf cap reduce the loading effect of the 20 Meg resist=
or?
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0Thanks, Mikek

Not really. At 1MHz, 0.3pf has a reactance of 530K, so it just adds
530K in series with 20M. It also attenuates your signal by a factor
of 17, if the writeup is accurate.

The author says the amp's input capacitance is 1.4pF. That means
either there's a lot of stray capacitance, or the input coupling cap
is actually a lot larger than 0.3pF.

--James

```
From 7912827753061476010
X-Google-Thread: 112d1e,c2fdf0234367314f
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From: "amdx" <amdx@knology.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
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Date: Sun, 20 Feb 2011 16:28:21 -0600
X-Priority: 3
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X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
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X-Antivirus: avast! (VPS 110220-1, 02/20/2011), Outbound message
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Message-ID: <11738$4d61958a$d8baf3b7$11893@KNOLOGY.NET>
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Lines: 101
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Xref: g2news1.google.com sci.electronics.design:216231
rec.radio.amateur.homebrew:4164


<dagmargoodboat@yahoo.com> wrote in message
news:59dff1da-a984-4bf9-95cd-ad5bc6d591ff@d16g2000yqd.googlegroups.com...
On Feb 20, 3:56 pm, "amdx" <a...@knology.net> wrote:
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>
> news:fe489f0d-5b50-4959-9600-83ef5a42278a@e21g2000yqe.googlegroups.com...
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>capacitance on the other.

>No two FETs will have the same capacitance, so you can't know in
>advance exactly what the circuit's gain will be. That's why you have
>to tweak it via the input capacitor right now.

Hmm. I might have got a hot FET as my cap is spaced 5 mm vs his 3mm.
I calculated 0.177pf for my cap.
Had adjusted the circuit voltage gain after the FET circuit for 17. Then adjusted the cap for a total gain of 1.

> >Better: use 10pF coupling, lose less at the input, and use less gain
> >later. Bootstrap the FET so the input sees very low C. Do those and
> >you don't even need a gimmick.
>
> I need to know more about bootstraping.
> Also doesn't the 0.3pf cap reduce the loading effect of the 20 Meg
> resistor?
> Thanks, Mikek

>Not really. At 1MHz, 0.3pf has a reactance of 530K, so it just adds
>530K in series with 20M. It also attenuates your signal by a factor
>of 17, if the writeup is accurate.

Oh, I had assumed a much higher impedance for that small cap.
Best not to assume :-)

The author says the amp's input capacitance is 1.4pF. That means
>either there's a lot of stray capacitance, or the input coupling cap
>is actually a lot larger than 0.3pF.

I'll be trying the twisted pair to reduce that stray capacitance.
Mikek

```
From -7527803910832480584
X-Google-Thread: 112d1e,c2fdf0234367314f
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nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 20 Feb 2011 17:21:08 -0600
From: John Larkin <jjlarkin@highNOTlandTHIStechnologyPART.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Sun, 20 Feb 2011 15:19:02 -0800
Message-ID: <5q73m6hmsueub39hpivhuvppuiuc7e1vpq@4ax.com>
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Xref: g2news2.google.com sci.electronics.design:230952
rec.radio.amateur.homebrew:4462

On Sun, 20 Feb 2011 13:44:37 -0600, "amdx" <amdx@knology.net> wrote:

>
>"John Larkin" <jjlarkin@highNOTlandTHIStechnologyPART.com> wrote in message
>news:noj2m6p3q2kra0rpkp9cm6l0jicce2s8rl@4ax.com...
>> On Sun, 20 Feb 2011 09:20:12 -0600, "amdx" <amdx@knology.net> wrote:
>>
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>>>PS, I was having trouble getting some close-up pictures, I grabbed a
>>>magnifying glass and took some
>>>pictures through that, works good.
>>>
>>
>> Use a real surface-mount 0.3 pF cap, or a homemade coaxial cap. The 1
>> cm square plates are too big and have their own capacitance to the
>> world.
>>
>> Bootstrap the drain of Q1.
>>
>> "T" means transformer, which shows that this circuit was done by an
>> amateur. All that tricky stuff could be replaced by one opamp.
>>
>> It could have close to zero Cin with a little positive feedback.
>>
>> John
>>
>
>   > Bootstrap the drain of Q1.
>You need to walk me through that, (I'm an amateur)

If the source of the fet follower drives an opamp with a gain of, say, +2, you could take the amp's output, run it through a pot, and AC couple that into the drain.

With the pot at zero gain, there's no bootstrapping, so the fet's Cg-d loads the input 100%.

With the pot at mid-rotation, the drain is forced to swing up and down just about as much as the input signal does. Since both ends of Cg-d are at the same signal level, there's almost no current in that capacitance, so it sort of disappears, as far as the gate is concerned.

Turn the pot a little more, and a small excursion at the gate results in a *bigger* excursion at the drain. So the current in Cg-d flows in the opposite direction from a real capacitor, and Cg-d becomes a negative capacitor. It can then be used to cancel all other capacitance at the gate node, making the box have a net nearly-zero input capacitance.

Or just add a small variable cap from the opamp output back into the gate, and adjust for near zero input capacitance. When it oscillates, you've gone too far.

John

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mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: TOP SEXY VIDEOS ALL TYPE OF HOT PHOTOS
Date: Sun, 20 Feb 2011 18:00:03 -0800 (PST)
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Xref: g2news1.google.com rec.radio.amateur.homebrew:4166


ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html




         hot lip kiss

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http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
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                     HOT VIDEOS

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hardware interview questions 4
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SQL Server Interview Questions
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X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Sun, 20 Feb 2011 23:31:46 -0600
From: RST Engineering <jweir43@gmail.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew

Subject: Re: help designing gimmick capacitor
Date: Sun, 20 Feb 2011 21:31:42 -0800
Message-ID: <n4u3m69vv2lq3bubepqd22tc7k9uk3auus@4ax.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET> <77047df4-a98f-4ccc-b17b-cf8086cec7fa@u12g2000vbf.googlegroups.com>
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X-Complaints-To: www.supernews.com/docs/abuse.html
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Xref: g2news1.google.com sci.electronics.design:216289 rec.radio.amateur.homebrew:4167

On Sun, 20 Feb 2011 07:52:18 -0800 (PST), dagmargoodboat@yahoo.com wrote:

>The old-tyme gimmick was two wires, twisted together. That would
>contain the field better than your open plates.
>
>Another alternative: you could surround your cap with a shield and
>drive the shield from the FET source, bootstrapping it.

Does the term SNIP have any meaning to you?

Jim

From 4355904067206721633
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
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NNTP-Posting-Date: Sun, 20 Feb 2011 23:55:18 -0600
From: John Larkin <jjlarkin@highNOTlandTHIStechnologyPART.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor

```
Date: Sun, 20 Feb 2011 21:53:11 -0800
Message-ID: <idv3m69tc5gqoj96krfno78o80jvuvr0kc@4ax.com>
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properly
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Xref: g2news2.google.com sci.electronics.design:231003
rec.radio.amateur.homebrew:4465

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>>
>>Another alternative: you could surround your cap with a shield and
>>drive the shield from the FET source, bootstrapping it.
>
>Does the term SNIP have any meaning to you?
>
>Jim

Save up and buy yourself some scroll bars.

John




From -748898731016368535
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

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Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.localnet!news.posted.localnet.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 21 Feb 2011 00:18:07 -0600
Date: Sun, 20 Feb 2011 22:17:53 -0800
From: Robert Baer <robertbaer@localnet.com>
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.21) Gecko/20090403
SeaMonkey/1.1.16
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
In-Reply-To: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <ub6dnfVHgKg9nv_QnZ2dnUVZ_sGdnZ2d@posted.localnet>
Lines: 41
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 4.242.232.204
X-Trace: sv3-uxJq/4i42z/6eLGM7jEeYLP4BVJic1NQSmgN0ePaCgtxjI/QzCrAP3o/
nebcBivw0iyOpyOv213M+Sq!/
WvEGyyZ+Y0cILw9Bh82fv78w2nArpNxGYs65OHgBl0pJrDgVYVzx4JsNaz3b3azawntK5g/0qdV!QHM/
NN+osef4/4I9Jp2V8SEsxTw5/1o=
X-Complaints-To: abuse@localnet.com
X-DMCA-Complaints-To: abuse@localnet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2901
Xref: g2news2.google.com sci.electronics.design:231006
rec.radio.amateur.homebrew:4466

amdx wrote:
> Hi all,
>  I finished the amp that had the 5 Ghz transistor, I changed it to a slower
> one.
>  The objective of this amp is to cause minimal loading of the circuit it is
> measuring.
> When I install the box cover the voltage gain drops by 7%, so I think the
> input capacitor
> plate is being loaded by the cover.
> The input capacitor plates can be seen here;
>
> http://i395.photobucket.com/albums/pp37/Qmavam/1cmx1cmspaced5mm.jpg
>
> The plates are 1 cm x 1 cm spaced 5 mm apart.
>
> I have thoughts about  rectangular plates 0.25 cm x 4 cm to get more
> distance from the top cover, (and the bottom.)
>  Or a real gimmick cap where I twist a couple of 39 Gauge wires together and
> attach opposite ends to input and output.
>
```

```
>   Any ideas to minimize input capacitance to the box?
>
>  Here's the amp in box.
> http://i395.photobucket.com/albums/pp37/Qmavam/Kleijerampinbox.jpg
>
> This is the original circuit page with schematic;
> http://www.crystal-radio.eu/enfetamp.htm
>                Thanks, Mike
>
> PS, I was having trouble getting some close-up pictures, I grabbed a
> magnifying glass and took some
> pictures through that, works good.
>
>
   Response before looking at others:
   1. use one 10Meg and connect it to source OR cap bootstrap the 10meg
input divider to the source.
   2. "wrap" a shield around the input wire & plate and drive the shield
from the FET source or T2 emitter.
   3 What the heck is that HUGE block attached to the input plate?
Ditech it; you will see a significant decrease in input capacitance.



From 47637924180094004
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!d16g2000yqd.googlegroups.com!not-for-
mail
From: dagmargoodboat@yahoo.com
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Mon, 21 Feb 2011 07:17:14 -0800 (PST)
Organization: http://groups.google.com
Lines: 23
Message-ID: <eee74377-a940-48f0-82c3-00adc217e85d@d16g2000yqd.googlegroups.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET> <77047df4-a98f-4ccc-b17b-
cf8086cec7fa@u12g2000vbf.googlegroups.com>
 <n4u3m69vv2lq3bubepqd22tc7k9uk3auus@4ax.com>
NNTP-Posting-Host: 74.248.192.6
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1298301434 24765 127.0.0.1 (21 Feb 2011 15:17:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 21 Feb 2011 15:17:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d16g2000yqd.googlegroups.com; posting-host=74.248.192.6; posting-
account=v0yXBAoAAAC5ZmBMLYL75O6CVqNhBfrj
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.2)
 Gecko/20090729 Firefox/3.5.2,gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:231032
rec.radio.amateur.homebrew:4467

On Feb 21, 12:31=A0am, RST Engineering <jwei...@gmail.com> wrote:
> On Sun, 20 Feb 2011 07:52:18 -0800 (PST), dagmargoodb...@yahoo.com
> wrote:
>
> >The old-tyme gimmick was two wires, twisted together. =A0That would
> >contain the field better than your open plates.
>
> >Another alternative: you could surround your cap with a shield and
> >drive the shield from the FET source, bootstrapping it.
>
> Does the term SNIP have any meaning to you?
>
> Jim

I quoted the original post.  Did you think the original was
irrelevant?  I don't agree.

I try to quote enough so that a newcomer can, in one post, understand
both the full question I'm responding to, and my reply.

--
Cheers,
James Arthur


From 3045089648867823866
X-Google-Thread: fc2a5,a8e4ed68ce7f4b2,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o39g2000prb.googlegroups.com!not-for-
mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT BABES
Date: Mon, 21 Feb 2011 08:11:48 -0800 (PST)
Organization: http://groups.google.com
Lines: 24
Message-ID: <415ff298-f416-4e82-922b-975fd55f1ea2@o39g2000prb.googlegroups.com>
NNTP-Posting-Host: 117.199.240.27
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1298304709 24594 127.0.0.1 (21 Feb 2011 16:11:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 21 Feb 2011 16:11:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o39g2000prb.googlegroups.com; posting-host=117.199.240.27;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
```

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X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.13)
 Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4171



   ```ONLY HOT VIDEOS FOR YOUTH````

                        HOT VIDEOS
         http://sexy-rainsongs.blogspot.com/
                          FUNNY VIDEOS
http://sexy-rainsongs.blogspot.com/p/funny-video.html
                    TELUGU FUNNY VIDEOS
http://sexy-rainsongs.blogspot.com/p/telugu-funny-videos.html



        DEEPIKA PADUKONE HOT VIDEOS
http://karomasti9.blogspot.com/2011/01/deepika-padukone.html
                        HOT ARCHANA STILLS
http://karomasti9.blogspot.com/2011/01/archana.html
          DEEKSHA SETH HOT WALLPAPERS
http://karomasti9.blogspot.com/2011/01/deeksha-seth.html
       KATRINA KAIF HOT VIDEOS&PHOTOS
http://karomasti9.blogspot.com/2011/01/katrina-kaif.html





From 6536859549410162891
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!n10g2000yqf.googlegroups.com!not-for-
mail
From: George Herold <gherold@teachspin.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Mon, 21 Feb 2011 08:16:36 -0800 (PST)
Organization: http://groups.google.com
Lines: 138
Message-ID: <7597120a-4888-4ec2-88d7-c92f4fca5d1a@n10g2000yqf.googlegroups.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<noj2m6p3q2kra0rpkp9cm6l0jicce2s8rl@4ax.com>
 <4bc8b$4d616f82$d8baf3b7$484@KNOLOGY.NET> <b93f1872-
c7a3-4f93-8873-91d591e9e658@t13g2000vbo.googlegroups.com>
NNTP-Posting-Host: 67.142.171.22
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 21 Feb 2011 16:16:36 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n10g2000yqf.googlegroups.com; posting-host=67.142.171.22; posting-
account=_kLX7QoAAAChyHRjRDyv2ieHnlQ_-li2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
 Trident/4.0; FDM),gzip(gfe)
Xref: g2news1.google.com sci.electronics.design:216330
rec.radio.amateur.homebrew:4172

On Feb 20, 3:30=A0pm, dagmargoodb...@yahoo.com wrote:
> On Feb 20, 2:44=A0pm, "amdx" <a...@knology.net> wrote:
>
>
>
>
>
> > "John Larkin" <jjlar...@highNOTlandTHIStechnologyPART.com> wrote in mes=
sage
>
> >news:noj2m6p3q2kra0rpkp9cm6l0jicce2s8rl@4ax.com...
>
> > > On Sun, 20 Feb 2011 09:20:12 -0600, "amdx" <a...@knology.net> wrote:
>
> > >>Hi all,
> > >> I finished the amp that had the 5 Ghz transistor, I changed it to a
> > >> slower
> > >>one.
> > >> The objective of this amp is to cause minimal loading of the circuit=
 it
> > >> is
> > >>measuring.
> > >>When I install the box cover the voltage gain drops by 7%, so I think=
 the
> > >>input capacitor
> > >>plate is being loaded by the cover.
> > >>The input capacitor plates can be seen here;
>
> > >>http://i395.photobucket.com/albums/pp37/Qmavam/1cmx1cmspaced5mm.jpg
>
> > >>The plates are 1 cm x 1 cm spaced 5 mm apart.
>
> > >>I have thoughts about =A0rectangular plates 0.25 cm x 4 cm to get mor=
e
> > >>distance from the top cover, (and the bottom.)
> > >> Or a real gimmick cap where I twist a couple of 39 Gauge wires toget=
her
> > >> and
> > >>attach opposite ends to input and output.
```

```
>
> > >> =A0Any ideas to minimize input capacitance to the box?
>
> > >> Here's the amp in box.
> > >>http://i395.photobucket.com/albums/pp37/Qmavam/Kleijerampinbox.jpg
>
> > >>This is the original circuit page with schematic;
> > >>http://www.crystal-radio.eu/enfetamp.htm
> > >> =A0 =A0 =A0 =A0 =A0 =A0 =A0 Thanks, Mike
>
> > >>PS, I was having trouble getting some close-up pictures, I grabbed a
> > >>magnifying glass and took some
> > >>pictures through that, works good.
>
> > > Use a real surface-mount 0.3 pF cap, or a homemade coaxial cap. The 1
> > > cm square plates are too big and have their own capacitance to the
> > > world.
>
> > > Bootstrap the drain of Q1.
>
> > > "T" means transformer, which shows that this circuit was done by an
> > > amateur. All that tricky stuff could be replaced by one opamp.
>
> > > It could have close to zero Cin with a little positive feedback.
>
> > > John
>
> > =A0 =A0 > Bootstrap the drain of Q1.
> > You need to walk me through that, (I'm an amateur)
>
> > Ah, he's done some nice work on the subject of crystal radios and high =
Q
> > inductors.http://www.crystal-radio.eu/index.html
> > Page down to experiment with LC circuits.
>
> > =A0> It could have close to zero Cin with a little positive feedback.
>
> > =A0How much closer? If the input cap is 0.3pf what do you the input imp=
edance
> > is?
> > Input is 0.3pf, 20 Meg to ground driving FET gate.
> > =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Tha=
nks, Mikek
>
> We're talking about something roughly like this:
>
> =A0 =A0 +12V >-o-----o-----------.
> =A0 =A0 =A0 =A0 =A0 =A0| =A0 =A0 | =A0 =A0 =A0 =A0 =A0 |
> =A0 =A0 =A0 =A0 =A0 =A0| =A0 =A0 | =A0 =A0 =A0 =A0 =A0 |
> =A0 =A0 =A0 =A0 =A0 =A0| =A0 =A0 | =A0 =A0 =A0 R5 3.3M
> =A0 =A0 =A0 =A0 =A0 =A0| =A0 =A0 |Q2 =A0 =A0 =A0 =A0 |
> =A0 =A0 =A0 =A0 =A0 =A0| =A0 =A0 =A0\| =A0 =A0 =A0 =A0 | =A0 =A0 =A0 =A0V=
1
```

```
> =A0 =A0 =A0 =A0 =A0 =A0| =A0 =A0 =A0 |---o-----o =A0 <~~ ~=3D+3V
> =A0 =A0 =A0 =A0 =A0 =A0| =A0 =A0 .<| =A0 | =A0 =A0 |
> =A0 =A0 =A0 =A0 =A0 =A0| =A0 =A0 | =A0 =A0 | =A0R6 1M
> =A0 =A0 =A0 =A0 =A0 R3 =A0 =A0 | =A0 =A0 | =A0 =A0 |
> =A0 =A0 C1 =A0 =A0 | =A0 =A0 | =A0 =A0 |C3 =A0=3D=3D=3D
> =A0 =A0 10pF =A0 | g |-'d =A0 ---
> in--||--o--|-->| =A0 =A0 =A0---
> =A0 =A0 =A0 =A0 | =A0| =A0 |-.s =A0 =A0|100n
> =A0 =A0 R1 10M | =A0 =A0 |Q1 =A0 |
> =A0 =A0 =A0 =A0 | =A0| =A0 =A0 | =A0 =A0 |
> =A0 =A0 =A0 =A0 o--o-||--o-----o-----------out
> =A0 =A0 =A0 =A0 | =A0 =A0C2 =A0|
> =A0 =A0 R2 10M =A0100nF|
> =A0 =A0 =A0 =A0 | =A0 =A0 =A0 =A0|
> =A0 =A0 =A0 =A0=3D=3D=3D =A0 R4 470 R
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0|
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0|
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =3D=3D=3D
>
> C2 drives the center of the input bias resistor, which cancels the
> loading caused by R1-R2. =A0This is called "bootstrapping".
>
> Q2 does the same thing for the drain terminal--it causes the drain
> terminal to go up and down with the input signal. =A0That saves the
> input signal from having to charge Q1's gate-to-drain capacitance,
> effectively making that capacitance disappear.
>
> This front-end has *much* higher impedance than the original, and a
> predictable gain that's close to 1.
>
> R3 is to bias the FET output to (V1)/2, for maximum dynamic range.
> Higher V1 would give bigger dynamic range.
>
> A cheapskate could put a resistor in Q2's collector and use it as a
> voltage-gain stage too.
>
> --
> Cheers,
> James Arthur- Hide quoted text -
>
> - Show quoted text -

Thanks for the explanation James.  The bootstrapping of the base does
nothing for the input capacitance.(?) Is that correct?

George H.


From -2003546241551343534
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
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X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET> <77047df4-a98f-4ccc-b17b-
cf8086cec7fa@u12g2000vbf.googlegroups.com>
<1fcba$4d613df4$18ec6dd7$20370@KNOLOGY.NET> <570afcef-5600-4f89-9cb3-
e45db0759566@x11g2000yqc.googlegroups.com>
Subject: Re: help designing gimmick capacitor
Date: Mon, 21 Feb 2011 10:18:05 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-Antivirus: avast! (VPS 110221-0, 02/21/2011), Outbound message
X-Antivirus-Status: Clean
Message-ID: <2e934$4d629096$45013905$28949@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 90
X-Trace: 2e9344d629096e0a49ca028949
Xref: g2news2.google.com sci.electronics.design:231041
rec.radio.amateur.homebrew:4470


<dagmargoodboat@yahoo.com> wrote in message
news:570afcef-5600-4f89-9cb3-e45db0759566@x11g2000yqc.googlegroups.com...
On Feb 20, 11:14 am, "amdx" <a...@knology.net> wrote:
> <dagmargoodb...@yahoo.com> wrote in message
>
> news:77047df4-a98f-4ccc-b17b-cf8086cec7fa@u12g2000vbf.googlegroups.com...
> On Feb 20, 10:20 am, "amdx" <a...@knology.net> wrote:
>
> > Hi all,
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> > one.
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> > the
> > input capacitor
> > plate is being loaded by the cover.
> > The input capacitor plates can be seen here;
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> >http://i395.photobucket.com/albums/pp37/Qmavam/1cmx1cmspaced5mm.jpg
>
> > The plates are 1 cm x 1 cm spaced 5 mm apart.
```

>
> > I have thoughts about rectangular plates 0.25 cm x 4 cm to get more
> > distance from the top cover, (and the bottom.)
> > Or a real gimmick cap where I twist a couple of 39 Gauge wires together
> > and
> > attach opposite ends to input and output.
>
> > Any ideas to minimize input capacitance to the box?
>
> > Here's the amp in
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>
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> > schematic;http://www.crystal-radio.eu/enfetamp.htm
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>
> > PS, I was having trouble getting some close-up pictures, I grabbed a
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> > pictures through that, works good.
>
> ....
>
> >The old-tyme gimmick was two wires, twisted together. That would
> >contain the field better than your open plates.
> >Another alternative: you could surround your cap with a shield and
> >drive the shield from the FET source, bootstrapping it.
r
>
> Hi James,
> The twisted pair may be the easiest, but as a thought, if I took a piece
> of coax and
> removed the center conductor leaving just the shield, then inserted a
> twisted pair as my capacitor.

That's too tight a box, and the dielectric screws things up--you'll be
making shunt caps to the shield.

> I then connect the shield the FET source, Ok, I have never bootstrapped
> before, but wouldn't I
> then have a higher potential than desired, even a possibility of
> oscillation?
....

>Just the twisted gimmick itself is probably all you'll need. The
>bootstrapping is lagniappe.

  I tried a twisted pair of #26 wire and got way more capacitance then I
wanted.
I ended up with just about 1/4" layed side by side as about equal to 0.3pf.
When I put the cover on there was much less effect on the signal than with
the previously
used plate capacitor.
The side by side wire is not stable for long term use, so I'll find a way to

stablize it and
call this one a wrap. I'll try tying a low capacitance knot ;-)
I have two more boards and boxes, I'll build a bootstrapped version for the
next design.
I'll be back, I might try one with a gain of 1 and one with a gain of
maybe 10.
Mikek

From 1098631859298576997
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!i14g2000yqe.googlegroups.com!not-for-mail
From: dagmargoodboat@yahoo.com
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Mon, 21 Feb 2011 08:46:12 -0800 (PST)
Organization: http://groups.google.com
Lines: 29
Message-ID: <4bc2c630-f12c-484e-bd70-bfd5f7b10e18@i14g2000yqe.googlegroups.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET> <77047df4-a98f-4ccc-b17b-cf8086cec7fa@u12g2000vbf.googlegroups.com>
<1fcba$4d613df4$18ec6dd7$20370@KNOLOGY.NET> <570afcef-5600-4f89-9cb3-e45db0759566@x11g2000yqc.googlegroups.com>
<2e934$4d629096$45013905$28949@KNOLOGY.NET>
NNTP-Posting-Host: 74.248.192.6
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1298306772 12270 127.0.0.1 (21 Feb 2011 16:46:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 21 Feb 2011 16:46:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i14g2000yqe.googlegroups.com; posting-host=74.248.192.6; posting-account=v0yXBAoAAAC5ZmBMLYL75O6CVqNhBfrj
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.2)
Gecko/20090729 Firefox/3.5.2,gzip(gfe)
Xref: g2news1.google.com sci.electronics.design:216334
rec.radio.amateur.homebrew:4174

On Feb 21, 11:18=A0am, "amdx" <a...@knology.net> wrote:
> <dagmargoodb...@yahoo.com> wrote:
> On Feb 20, 11:14 am, "amdx" <a...@knology.net> wrote:

```
> >Just the twisted gimmick itself is probably all you'll need. =A0The
> >bootstrapping is lagniappe.
>
> =A0 I tried a twisted pair of #26 wire and got way more capacitance then =
I
> wanted.

Just half a twist is likely enough--regular twisted pair is way too
tightly coupled.

[...]


> I have two more boards and boxes, I'll build a bootstrapped version for t=
he
> next design.
> =A0 =A0 I'll be back, I might try one with a gain of 1 and one with a gai=
n of
> maybe 10.
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =
=A0 Mikek

--
Cheers,
James Arthur


From -930165797661605399
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!x11g2000yqc.googlegroups.com!not-for-
mail
From: dagmargoodboat@yahoo.com
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Mon, 21 Feb 2011 09:03:27 -0800 (PST)
Organization: http://groups.google.com
Lines: 148
Message-ID: <b8416e6c-8b7d-4935-9d7d-dbb3fa72c16b@x11g2000yqc.googlegroups.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<noj2m6p3q2kra0rpkp9cm6l0jicce2s8rl@4ax.com>
 <4bc8b$4d616f82$d8baf3b7$484@KNOLOGY.NET> <b93f1872-
c7a3-4f93-8873-91d591e9e658@t13g2000vbo.googlegroups.com>
 <7597120a-4888-4ec2-88d7-c92f4fca5d1a@n10g2000yqf.googlegroups.com>
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Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1298307807 22327 127.0.0.1 (21 Feb 2011 17:03:27 GMT)
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```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 21 Feb 2011 17:03:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x11g2000yqc.googlegroups.com; posting-host=74.248.192.6; posting-
account=v0yXBAoAAAC5ZmBMLYL75O6CVqNhBfrj
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.2)
 Gecko/20090729 Firefox/3.5.2,gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:231046
rec.radio.amateur.homebrew:4472

On Feb 21, 11:16=A0am, George Herold <gher...@teachspin.com> wrote:
> On Feb 20, 3:30=A0pm, dagmargoodb...@yahoo.com wrote:
>
>
>
> > On Feb 20, 2:44=A0pm, "amdx" <a...@knology.net> wrote:
>
> > > "John Larkin" <jjlar...@highNOTlandTHIStechnologyPART.com> wrote in m=
essage
>
> > >news:noj2m6p3q2kra0rpkp9cm6l0jicce2s8rl@4ax.com...
>
> > > > On Sun, 20 Feb 2011 09:20:12 -0600, "amdx" <a...@knology.net> wrote=
:
>
> > > >>Hi all,
> > > >> I finished the amp that had the 5 Ghz transistor, I changed it to =
a
> > > >> slower
> > > >>one.
> > > >> The objective of this amp is to cause minimal loading of the circu=
it it
> > > >> is
> > > >>measuring.
> > > >>When I install the box cover the voltage gain drops by 7%, so I thi=
nk the
> > > >>input capacitor
> > > >>plate is being loaded by the cover.
> > > >>The input capacitor plates can be seen here;
>
> > > >>http://i395.photobucket.com/albums/pp37/Qmavam/1cmx1cmspaced5mm.jpg
>
> > > >>The plates are 1 cm x 1 cm spaced 5 mm apart.
>
> > > >>I have thoughts about =A0rectangular plates 0.25 cm x 4 cm to get m=
ore
> > > >>distance from the top cover, (and the bottom.)
> > > >> Or a real gimmick cap where I twist a couple of 39 Gauge wires tog=
ether
> > > >> and
> > > >>attach opposite ends to input and output.
>
```

```
> > > >> =A0Any ideas to minimize input capacitance to the box?
>
> > > >> Here's the amp in box.
> > > >>http://i395.photobucket.com/albums/pp37/Qmavam/Kleijerampinbox.jpg
>
> > > >>This is the original circuit page with schematic;
> > > >>http://www.crystal-radio.eu/enfetamp.htm
> > > >> =A0 =A0 =A0 =A0 =A0 =A0 =A0 Thanks, Mike
>
> > > >>PS, I was having trouble getting some close-up pictures, I grabbed =
a
> > > >>magnifying glass and took some
> > > >>pictures through that, works good.
>
> > > > Use a real surface-mount 0.3 pF cap, or a homemade coaxial cap. The=
 1
> > > > cm square plates are too big and have their own capacitance to the
> > > > world.
>
> > > > Bootstrap the drain of Q1.
>
> > > > "T" means transformer, which shows that this circuit was done by an
> > > > amateur. All that tricky stuff could be replaced by one opamp.
>
> > > > It could have close to zero Cin with a little positive feedback.
>
> > > > John
>
> > > =A0 =A0 > Bootstrap the drain of Q1.
> > > You need to walk me through that, (I'm an amateur)
>
> > > Ah, he's done some nice work on the subject of crystal radios and hig=
h Q
> > > inductors.http://www.crystal-radio.eu/index.html
> > > Page down to experiment with LC circuits.
>
> > > =A0> It could have close to zero Cin with a little positive feedback.
>
> > > =A0How much closer? If the input cap is 0.3pf what do you the input i=
mpedance
> > > is?
> > > Input is 0.3pf, 20 Meg to ground driving FET gate.
> > > =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 T=
hanks, Mikek
>
> > We're talking about something roughly like this:
>
> > =A0 =A0 +12V >-------+-----------.
> > =A0 =A0 =A0 =A0 =A0 =A0  =A0 =A0 | =A0 =A0 =A0 =A0 =A0 |
> > =A0 =A0 =A0 =A0 =A0 =A0  =A0 =A0 | =A0 =A0 =A0 =A0 =A0 |
> > =A0 =A0 =A0 =A0 =A0 =A0  =A0 =A0 | =A0 =A0 =A0 R5 220K
> > =A0 =A0 =A0 =A0 =A0 =A0  =A0 =A0 |Q2 =A0 =A0 =A0 =A0 |
> > =A0 =A0 =A0 =A0 =A0 =A0  =A0 =A0 =A0\| =A0 =A0 =A0 =A0 | =A0 =A0 =A0 =
=A0V1
> > =A0 =A0 =A0 =A0 =A0 =A0  =A0 =A0 =A0 |---+-----+ =A0 <~~ ~=3D7V
> > =A0 =A0 =A0 =A0 =A0 =A0  =A0 =A0 .<| =A0 | =A0 =A0 |
> > =A0 =A0 =A0 =A0 =A0 =A0  =A0 =A0 | =A0 =A0 | =A0R6 330K
> > =A0 =A0 =A0 =A0 =A0    =A0 =A0 | =A0 =A0 | =A0 =A0 |
> > =A0 =A0 C1 =A0 =A0   =A0 =A0 | =A0 =A0 |C3 =A0=3D=3D=3D
> > =A0 =A0 10pF =A0   g |-'d =A0 ---
> > in--||--+----->| =A0 =A0 =A0---
> > =A0 =A0 =A0 =A0 | =A0  =A0 |-.s =A0 =A0|100n
> > =A0 =A0 R1 10M   =A0 =A0 |Q1 =A0 |
> > =A0 =A0 =A0 =A0 | =A0  =A0 =A0 | =A0 =A0 |
> > =A0 =A0 =A0 =A0 +----||--+-----+------> out
> > =A0 =A0 =A0 =A0 | =A0 =A0C2 =A0|
> > =A0 =A0 R2 10M =A0100nF|
> > =A0 =A0 =A0 =A0 | =A0 =A0 =A0 =A0|
> > =A0 =A0 =A0 =A0=3D=3D=3D =A0 R4 2.2K
> > =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0|
> > =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0|
> > =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =3D=3D=3D
```

<edited, simplified, R4-6 values corrected>

> > C2 drives the center of the input bias resistor, which cancels the
> > loading caused by R1-R2. =A0This is called "bootstrapping".
>
> > Q2 does the same thing for the drain terminal--it causes the drain
> > terminal to go up and down with the input signal. =A0That saves the
> > input signal from having to charge Q1's gate-to-drain capacitance,
> > effectively making that capacitance disappear.
>
> > This front-end has *much* higher impedance than the original, and a
> > predictable gain that's close to 1.

>
> Thanks for the explanation James. =A0The bootstrapping of the base does
> nothing for the input capacitance.(?) Is that correct?

If you mean "gate" and Q1, that's inherently bootstrapped by the voltage-follower configuration: the source already rises and falls with the input, leaving the Miller capacitance as by far the biggest nasty. The best, easy bootstrap for the FET input capacitance is getting the FET follower gain up closer to unity. That means using a current source for the source load instead of R4.

The input bootstrap above--C2 to the junction of R1-R2--serves to reduce the a) stray capacitive loading posed by R1, and b) raise the a.c. input impedance to much higher than the 20M input resistor in parallel with the FET gate impedance.

--
Cheers,
James Arthur

```
From -9075562635290068853
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
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85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: Baron <baron@linuxmaniac.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Mon, 21 Feb 2011 22:08:20 +0000
Organization: The Listner
Lines: 101
Message-ID: <ijunkl$7d0$1@news.eternal-september.org>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET> <77047df4-a98f-4ccc-b17b-
cf8086cec7fa@u12g2000vbf.googlegroups.com>
<1fcba$4d613df4$18ec6dd7$20370@KNOLOGY.NET> <570afcef-5600-4f89-9cb3-
e45db0759566@x11g2000yqc.googlegroups.com>
<2e934$4d629096$45013905$28949@KNOLOGY.NET>
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ul3+=0A=09DmVQSUZ=60Ly=24=3F=7C=25=26vpCqIYGwlqBrOH=3DwD+y0?=         =?utf-8?q?
pev=5C?=,4^7,uN]jO|q[iOC{='6`qbBHA.v30@=?utf-8?q?=0A=09?="         =?utf-8?q?-
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=@7+Jl9H,S5WXfC{xP5n_FF@b{X:!z*OXjSiB!S<B!Ez;NBs"^W(b)<X[}NxD,A,
Cancel-Lock: sha1:sZdnWqGnPs1d29DNsYf51+qDTwo=
Xref: g2news1.google.com sci.electronics.design:216376
rec.radio.amateur.homebrew:4176
```

amdx Inscribed thus:

```
>
> <dagmargoodboat@yahoo.com> wrote in message
>
news:570afcef-5600-4f89-9cb3-e45db0759566@x11g2000yqc.googlegroups.com...
> On Feb 20, 11:14 am, "amdx" <a...@knology.net> wrote:
>> <dagmargoodb...@yahoo.com> wrote in message
>>
>>
```

news:77047df4-a98f-4ccc-b17b-cf8086cec7fa@u12g2000vbf.googlegroups.com...
>> On Feb 20, 10:20 am, "amdx" <a...@knology.net> wrote:
>>
>> > Hi all,
>> > I finished the amp that had the 5 Ghz transistor, I changed it to a
>> > slower
>> > one.
>> > The objective of this amp is to cause minimal loading of the
>> > circuit it is
>> > measuring.
>> > When I install the box cover the voltage gain drops by 7%, so I
>> > think the
>> > input capacitor
>> > plate is being loaded by the cover.
>> > The input capacitor plates can be seen here;
>>
>> >http://i395.photobucket.com/albums/pp37/Qmavam/1cmx1cmspaced5mm.jpg
>>
>> > The plates are 1 cm x 1 cm spaced 5 mm apart.
>>
>> > I have thoughts about rectangular plates 0.25 cm x 4 cm to get more
>> > distance from the top cover, (and the bottom.)
>> > Or a real gimmick cap where I twist a couple of 39 Gauge wires
>> > together and
>> > attach opposite ends to input and output.
>>
>> > Any ideas to minimize input capacitance to the box?
>>
>> > Here's the amp in
>> >
box.http://i395.photobucket.com/albums/pp37/Qmavam/Kleijerampinbox.jpg
>>
>> > This is the original circuit page with
>> > schematic;http://www.crystal-radio.eu/enfetamp.htm
>> > Thanks, Mike
>>
>> > PS, I was having trouble getting some close-up pictures, I grabbed
>> > a magnifying glass and took some
>> > pictures through that, works good.
>>
>> ....
>>
>> >The old-tyme gimmick was two wires, twisted together. That would
>> >contain the field better than your open plates.
>> >Another alternative: you could surround your cap with a shield and
>> >drive the shield from the FET source, bootstrapping it.
> r
>>
>> Hi James,
>> The twisted pair may be the easiest, but as a thought, if I took a
>> piece of coax and
>> removed the center conductor leaving just the shield, then inserted a
>> twisted pair as my capacitor.

```
>
> That's too tight a box, and the dielectric screws things up--you'll be
> making shunt caps to the shield.
>
>> I then connect the shield the FET source, Ok, I have never
>> bootstrapped before, but wouldn't I
>> then have a higher potential than desired, even a possibility of
>> oscillation?
> .........................
>
>>Just the twisted gimmick itself is probably all you'll need.  The
>>bootstrapping is lagniappe.
>
>   I tried a twisted pair of #26 wire and got way more capacitance then
>   I
> wanted.
> I ended up with just about 1/4" layed side by side as about equal to
> 0.3pf. When I put the cover on there was much less effect on the
> signal than with the previously
> used plate capacitor.
> The side by side wire is not stable for long term use, so I'll find a
> way to stablize it and
> call this one a wrap. I'll try tying a low capacitance knot ;-)
> I have two more boards and boxes, I'll build a bootstrapped version
> for the next design.
>     I'll be back, I might try one with a gain of 1 and one with a gain
>     of
> maybe 10.
>                                       Mikek

Try a glass cased diode with one end cut off so the case is empty.  Use
the wire at one end for one connection, use a piece of thick wire
inside the tube for the other connection.  Adjust for "C".  Secure with
a drop of adhesive.

--
Best Regards:
                          Baron.


From 6910730486729946339
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: Rich Grise <richg@example.net.invalid>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Followup-To: sci.electronics.design
Date: Mon, 21 Feb 2011 16:45:29 -0800
```

Organization: As Little as Possible
Lines: 11
Message-ID: <ijv11k$6t4$5@news.eternal-september.org>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET> <77047df4-a98f-4ccc-b17b-cf8086cec7fa@u12g2000vbf.googlegroups.com>
<1fcba$4d613df4$18ec6dd7$20370@KNOLOGY.NET> <570afcef-5600-4f89-9cb3-e45db0759566@x11g2000yqc.googlegroups.com>
<2e934$4d629096$45013905$28949@KNOLOGY.NET>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Injection-Info: mx02.eternal-september.org; posting-host="N1UKalwBQj1T+VLI2nvw0w";
logging-data="7076"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX18R1F3MRf1XAxSPLR6pwEOZUZOwD4/eft0="
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Xref: g2news1.google.com sci.electronics.design:216407
rec.radio.amateur.homebrew:4177

amdx wrote:

> The side by side wire is not stable for long term use, so I'll find a way
> to stablize it and
> call this one a wrap. I'll try tying a low capacitance knot ;-)

Heat shrink?

Good Luck!
Rich

From 2498027001671353373
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!y3g2000vbh.googlegroups.com!not-for-mail
From: George Herold <gherold@teachspin.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Mon, 21 Feb 2011 17:53:15 -0800 (PST)
Organization: http://groups.google.com
Lines: 162
Message-ID: <5ad0d51e-0b40-4f5b-9941-1ae7021f9226@y3g2000vbh.googlegroups.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<noj2m6p3q2kra0rpkp9cm6l0jicce2s8rl@4ax.com>
<4bc8b$4d616f82$d8baf3b7$484@KNOLOGY.NET> <b93f1872-c7a3-4f93-8873-91d591e9e658@t13g2000vbo.googlegroups.com>
<7597120a-4888-4ec2-88d7-c92f4fca5d1a@n10g2000yqf.googlegroups.com>
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NNTP-Posting-Host: 67.142.171.27

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Xref: g2news2.google.com sci.electronics.design:231123
rec.radio.amateur.homebrew:4475
```

```
On Feb 21, 12:03=A0pm, dagmargoodb...@yahoo.com wrote:
> On Feb 21, 11:16=A0am, George Herold <gher...@teachspin.com> wrote:
>
>
>
>
>
> > On Feb 20, 3:30=A0pm, dagmargoodb...@yahoo.com wrote:
>
> > > On Feb 20, 2:44=A0pm, "amdx" <a...@knology.net> wrote:
>
> > > > "John Larkin" <jjlar...@highNOTlandTHIStechnologyPART.com> wrote in=
 message
>
> > > >news:noj2m6p3q2kra0rpkp9cm6l0jicce2s8rl@4ax.com...
>
> > > > > On Sun, 20 Feb 2011 09:20:12 -0600, "amdx" <a...@knology.net> wro=
te:
>
> > > > >>Hi all,
> > > > >> I finished the amp that had the 5 Ghz transistor, I changed it t=
o a
> > > > >> slower
> > > > >>one.
> > > > >> The objective of this amp is to cause minimal loading of the cir=
cuit it
> > > > >> is
> > > > >>measuring.
> > > > >>When I install the box cover the voltage gain drops by 7%, so I t=
hink the
> > > > >>input capacitor
> > > > >>plate is being loaded by the cover.
> > > > >>The input capacitor plates can be seen here;
>
> > > > >>http://i395.photobucket.com/albums/pp37/Qmavam/1cmx1cmspaced5mm.j=
pg
>
> > > > >>The plates are 1 cm x 1 cm spaced 5 mm apart.
```

>
> > > > >>I have thoughts about =A0rectangular plates 0.25 cm x 4 cm to get=
 more
> > > > >>distance from the top cover, (and the bottom.)
> > > > >> Or a real gimmick cap where I twist a couple of 39 Gauge wires t=
ogether
> > > > >> and
> > > > >>attach opposite ends to input and output.
>
> > > > >> =A0Any ideas to minimize input capacitance to the box?
>
> > > > >> Here's the amp in box.
> > > > >>http://i395.photobucket.com/albums/pp37/Qmavam/Kleijerampinbox.jp=
g
>
> > > > >>This is the original circuit page with schematic;
> > > > >>http://www.crystal-radio.eu/enfetamp.htm
> > > > >> =A0 =A0 =A0 =A0 =A0 =A0 =A0 Thanks, Mike
>
> > > > >>PS, I was having trouble getting some close-up pictures, I grabbe=
d a
> > > > >>magnifying glass and took some
> > > > >>pictures through that, works good.
>
> > > > > Use a real surface-mount 0.3 pF cap, or a homemade coaxial cap. T=
he 1
> > > > > cm square plates are too big and have their own capacitance to th=
e
> > > > > world.
>
> > > > > Bootstrap the drain of Q1.
>
> > > > > "T" means transformer, which shows that this circuit was done by =
an
> > > > > amateur. All that tricky stuff could be replaced by one opamp.
>
> > > > > It could have close to zero Cin with a little positive feedback.
>
> > > > > John
>
> > > > =A0 =A0 > Bootstrap the drain of Q1.
> > > > You need to walk me through that, (I'm an amateur)
>
> > > > Ah, he's done some nice work on the subject of crystal radios and h=
igh Q
> > > > inductors.http://www.crystal-radio.eu/index.html
> > > > Page down to experiment with LC circuits.
>
> > > > =A0> It could have close to zero Cin with a little positive feedbac=
k.
>
> > > > =A0How much closer? If the input cap is 0.3pf what do you the input=
 impedance

```
> > > > is?
> > > > Input is 0.3pf, 20 Meg to ground driving FET gate.
> > > > =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0=
 Thanks, Mikek
>
> > > We're talking about something roughly like this:
>
> > > =A0 =A0 +12V >-------+----------.
> > > =A0 =A0 =A0 =A0 =A0 =A0 =A0=A0 =A0 | =A0 =A0 =A0 =A0 =A0 |
> > > =A0 =A0 =A0 =A0 =A0 =A0 =A0=A0 =A0 | =A0 =A0 =A0 =A0 =A0 |
> > > =A0 =A0 =A0 =A0 =A0 =A0 =A0=A0 =A0 | =A0 =A0 =A0 R5 220K
> > > =A0 =A0 =A0 =A0 =A0 =A0 =A0=A0 =A0 |Q2 =A0 =A0 =A0 =A0 |
> > > =A0 =A0 =A0 =A0 =A0 =A0 =A0=A0 =A0 =A0\| =A0 =A0 =A0 =A0 | =A0 =A0 =
=A0 =A0V1
> > > =A0 =A0 =A0 =A0 =A0 =A0 =A0=A0 =A0 =A0 |---+-----+ =A0 <~~ ~=3D7V
> > > =A0 =A0 =A0 =A0 =A0 =A0 =A0=A0 =A0 .<| =A0 | =A0 =A0 |
> > > =A0 =A0 =A0 =A0 =A0 =A0 =A0=A0 =A0 | =A0 =A0 | =A0R6 330K
> > > =A0 =A0 =A0 =A0 =A0 =A0 =A0=A0 =A0 | =A0 =A0 | =A0 =A0 |
> > > =A0 =A0 C1 =A0 =A0 =A0 =A0 =A0 | =A0 =A0 |C3 =A0=3D=3D=3D
> > > =A0 =A0 10pF =A0 =A0 g |-'d =A0 ---
> > > in--||--+----->| =A0 =A0 =A0---
> > > =A0 =A0 =A0 =A0 | =A0 =A0=A0 |-.s =A0 =A0|100n
> > > =A0 =A0 R1 10M =A0 =A0 =A0 |Q1 =A0 |
> > > =A0 =A0 =A0 =A0 | =A0 =A0=A0 =A0 | =A0 =A0 |
> > > =A0 =A0 =A0 =A0 +----||--+-----+------> out
> > > =A0 =A0 =A0 =A0 | =A0 =A0C2 =A0|
> > > =A0 =A0 R2 10M =A0100nF|
> > > =A0 =A0 =A0 =A0 | =A0 =A0 =A0 =A0|
> > > =A0 =A0 =A0 =A0=3D=3D=3D =A0 R4 2.2K
> > > =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0|
> > > =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0|
> > > =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =3D=3D=3D
>
> <edited, simplified, R4-6 values corrected>
>
> > > C2 drives the center of the input bias resistor, which cancels the
> > > loading caused by R1-R2. =A0This is called "bootstrapping".
>
> > > Q2 does the same thing for the drain terminal--it causes the drain
> > > terminal to go up and down with the input signal. =A0That saves the
> > > input signal from having to charge Q1's gate-to-drain capacitance,
> > > effectively making that capacitance disappear.
>
> > > This front-end has *much* higher impedance than the original, and a
> > > predictable gain that's close to 1.
>
> > Thanks for the explanation James. =A0The bootstrapping of the base does
> > nothing for the input capacitance.(?) Is that correct?
>
> If you mean "gate" and Q1, that's inherently bootstrapped by the
> voltage-follower configuration: the source already rises and falls
> with the input, leaving the Miller capacitance as by far the biggest
> nasty. =A0The best, easy bootstrap for the FET input capacitance is
```

> getting the FET follower gain up closer to unity. =A0That means using a
> current source for the source load instead of R4.

Uh yes... Gate of Q1. (thanks for reading my mind.)

George H.
>
> The input bootstrap above--C2 to the junction of R1-R2--serves to
> reduce the a) stray capacitive loading posed by R1, and b) raise the
> a.c. input impedance to much higher than the 20M input resistor in
> parallel with the FET gate impedance.
>
> --
> Cheers,
> James Arthur- Hide quoted text -
>
> - Show quoted text -

From -9038406676308062433
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.localnet!news.posted.localnet.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 22 Feb 2011 03:02:38 -0600
Date: Tue, 22 Feb 2011 01:02:36 -0800
From: Robert Baer <robertbaer@localnet.com>
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.21) Gecko/20090403
SeaMonkey/1.1.16
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET> <77047df4-a98f-4ccc-b17b-
cf8086cec7fa@u12g2000vbf.googlegroups.com>
<1fcba$4d613df4$18ec6dd7$20370@KNOLOGY.NET> <570afcef-5600-4f89-9cb3-
e45db0759566@x11g2000yqc.googlegroups.com>
<2e934$4d629096$45013905$28949@KNOLOGY.NET>
In-Reply-To: <2e934$4d629096$45013905$28949@KNOLOGY.NET>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <k66dne9d9pkz5v7QnZ2dnUVZ_h6dnZ2d@posted.localnet>
Lines: 83
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 4.242.234.168
X-Trace: sv3-NZba19FL6+BE+vKoCkzU8OypjTUZmJo3hkZOJ3sMqYJ1/
uEjV9G9n4+bpzpkJcvkHVjX5D9X25E/tIi!cxpPA6tF/A8CqD8dmYqbWmRSWE+5Mg/KJ1rph/wN84G/
noqSihf+2VMwyuNtFB6Qh3K4xZ/jR6Yz!QRFXT297xjq1VD1ucKwNz7aM9Z9+ovI=

```
X-Complaints-To: abuse@localnet.com
X-DMCA-Complaints-To: abuse@localnet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 4907
Xref: g2news1.google.com sci.electronics.design:216442
rec.radio.amateur.homebrew:4179

amdx wrote:
> <dagmargoodboat@yahoo.com> wrote in message
> news:570afcef-5600-4f89-9cb3-e45db0759566@x11g2000yqc.googlegroups.com...
> On Feb 20, 11:14 am, "amdx" <a...@knology.net> wrote:
>> <dagmargoodb...@yahoo.com> wrote in message
>>
>> news:77047df4-a98f-4ccc-b17b-cf8086cec7fa@u12g2000vbf.googlegroups.com...
>> On Feb 20, 10:20 am, "amdx" <a...@knology.net> wrote:
>>
>>> Hi all,
>>> I finished the amp that had the 5 Ghz transistor, I changed it to a
>>> slower
>>> one.
>>> The objective of this amp is to cause minimal loading of the circuit it
>>> is
>>> measuring.
>>> When I install the box cover the voltage gain drops by 7%, so I think
>>> the
>>> input capacitor
>>> plate is being loaded by the cover.
>>> The input capacitor plates can be seen here;
>>> http://i395.photobucket.com/albums/pp37/Qmavam/1cmx1cmspaced5mm.jpg
>>> The plates are 1 cm x 1 cm spaced 5 mm apart.
>>> I have thoughts about rectangular plates 0.25 cm x 4 cm to get more
>>> distance from the top cover, (and the bottom.)
>>> Or a real gimmick cap where I twist a couple of 39 Gauge wires together
>>> and
>>> attach opposite ends to input and output.
>>> Any ideas to minimize input capacitance to the box?
>>> Here's the amp in
>>> box.http://i395.photobucket.com/albums/pp37/Qmavam/Kleijerampinbox.jpg
>>> This is the original circuit page with
>>> schematic;http://www.crystal-radio.eu/enfetamp.htm
>>> Thanks, Mike
>>> PS, I was having trouble getting some close-up pictures, I grabbed a
>>> magnifying glass and took some
>>> pictures through that, works good.
>> ......................................
>>
>>> The old-tyme gimmick was two wires, twisted together. That would
>>> contain the field better than your open plates.
>>> Another alternative: you could surround your cap with a shield and
>>> drive the shield from the FET source, bootstrapping it.
```

> r
>> Hi James,
>> The twisted pair may be the easiest, but as a thought, if I took a piece
>> of coax and
>> removed the center conductor leaving just the shield, then inserted a
>> twisted pair as my capacitor.
>
> That's too tight a box, and the dielectric screws things up--you'll be
> making shunt caps to the shield.
>
>> I then connect the shield the FET source, Ok, I have never bootstrapped
>> before, but wouldn't I
>> then have a higher potential than desired, even a possibility of
>> oscillation?
> ....
>
>> Just the twisted gimmick itself is probably all you'll need. The
>> bootstrapping is lagniappe.
>
>   I tried a twisted pair of #26 wire and got way more capacitance then I
> wanted.
> I ended up with just about 1/4" layed side by side as about equal to 0.3pf.
> When I put the cover on there was much less effect on the signal than with
> the previously
> used plate capacitor.
> The side by side wire is not stable for long term use, so I'll find a way to
> stablize it and
> call this one a wrap. I'll try tying a low capacitance knot ;-)
> I have two more boards and boxes, I'll build a bootstrapped version for the
> next design.
>   I'll be back, I might try one with a gain of 1 and one with a gain of
> maybe 10.
>   Mikek
>
>
>
>
>

Someone suggested the use of a chip cap for the input; much more
stab;e - and smaller than the plate setup..

From 7802645098364778480
X-Google-Thread: fc2a5,38564356dcffaaf5,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!goblin3!
goblin.stu.neva.ru!news.szaf.org!news.datentrampelpfad.de!news.iks-jena.de!
newsfeed1.eu.ignite.net!news-peer!btnet!Quza.UK.peer!nntp.gblx.net!news.teledata-
fn.de!feeder.news-service.com!ecngs!feeder.ecngs.de!Xl.tags.giganews.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!local2.nntp.ams.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail

NNTP-Posting-Date: Wed, 23 Feb 2011 17:07:56 -0600
From: N0XE <N0XE.7ab49f9@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Wanted HBR receiver
Date: Wed, 23 Feb 2011 17:26:35 +0000
Message-ID: <N0XE.7ab49f9@radiobanter.com>
Organization: RadioBanter.com
Lines: 10
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-wjLdHF1h0nWp637DDacnGSOH/
7eLiK6I3Q6emD2zzZ4yK3oBqTIYGr+pIxUnRCJNZMobnNOrXEMdtCQ!EpF5Cjhglkgtv/yKuKnyl/
40PnSTUlk+mG25enF3ltTZxuL23uupz4s6UUJagmvk8nj5x4/9KAxU!Lw==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 1
X-Original-Bytes: 1135
Xref: g2news1.google.com rec.radio.amateur.homebrew:4180

I am looking for a clean well built HBR receiver to add to my homebrew
transmitter. Just about any will be considered, just needs to play well
and I work mostly 40 and 80 CW. I am good on Qrz.com for email. Thanks,
73 Jim N0XE

--
N0XE

From 3954015016434941038
X-Google-Thread: fc2a5,8e9892758d5384ba,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!
easynews.com!en-nntp-16.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Some questions on IF transformers
Lines: 47
MIME-Version: 1.0
Content-Type: text/plain;
format=flowed;
charset="iso-8859-1";
reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
Message-ID: <zQh9p.228282$Ud7.114682@en-nntp-16.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Wed, 23 Feb 2011 16:43:10 -0800
Xref: g2news1.google.com rec.radio.amateur.homebrew:4181

I graduated from college back in the 1994, and even then we were admonished to avoid magnetics whenever possible. Of course, these days I know better, but as a result my academic coverage of IF transformers was non-existant.

I'm now trying to make up for that transgression. :-)

I've done a fair amount of reading and have a good understanding on how IF transformers work, how they should be modeled, how to build them, etc. (Most of the books that address this in detail are from the 1970s or older, it seems...) I still have a few questions, though, that I'm hoping a few of the older reads could help me out on. They are:

1) The really big 450kHz IF transformers you see in tube sets... why did they wind the coils in the form of "pancakes" rather than "the usual way" (single-layer coils)? Is it just a consequence of needing lots of turns (to get enough magnetizing inductance) but, for the coupling coefficient desired, finding that you'd end up with, e.g,. a foot-long tranformer if you only used a single layer?
2) I can readily see why you'd want a center-tapped primary, or a primary with, say, a tap 10% "up" as a small feedback winding, but why do you get such things as an IF transformer with 103 and 50 turns on the primary (on either side of the tap) and then 27 turns on the secondary? (E.g., http://www.mouser.com/catalog/specsheets/XC-600014.pdf). None of my books address this, and the only thing that looks close on the web is this article: http://hem.passagen.se/communication/ifcan.html . Is his conclusion, "by tapping the transformer the Q value increases" the main reason?
3) Sticking a parallel capacitor on the primary to resonate out the magnetizing inductance makes sense to me. I'm a little less clear on parallel capacitors on both the primary and secondary -- a double-tuned arrangement. Hagen's "Radio Frequency Electronics" assigns leakage inductance to the secondary and then converts the resonating capacitor in parallel with your load resistance back into a series circuit and, voila!, you now have a series RLC circuit so clearly bandpass behavior... but this approach implies that you could just use a *series* resonating capacitor on the secondary instead. Is that correct? (I am aware that there are a handful of commonly used transformer equivalent circuit models, you can transform magnetizing or leakage inductances and losses from primary to secondary or vice versa at will, etc.)
4) Anyone have pointers to good books or articles that ideally discuss some actual design examples of the more complicated cases (weird primary turns ratios, double-tuned circuits, etc.)? -- The ones I've found so far as the simpler single-tuned case, just center-tapped, etc.

Thanks a lot... I appreciate the help here!

---Joel

```
From -3333460771588148229
X-Google-Thread: fc2a5,ef47d5b5cbd3881b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!t13g2000prc.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT NEVER HOT VIDEOS PHOTOS
Date: Wed, 23 Feb 2011 17:54:34 -0800 (PST)
Organization: http://groups.google.com
Lines: 61
Message-ID: <af0a6b94-416e-47b6-a79c-65c299250eb7@t13g2000prc.googlegroups.com>
NNTP-Posting-Host: 117.199.242.203
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1298512474 16492 127.0.0.1 (24 Feb 2011 01:54:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 24 Feb 2011 01:54:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t13g2000prc.googlegroups.com; posting-host=117.199.242.203;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.13)
 Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4479


ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html




         hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html
```

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
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http://videosonblog.blogspot.com/2010/11/masala-videos.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

From -4546687132774094289
X-Google-Thread: 241b302a50,c2fdf0234367314f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!

```
94.75.214.39.MISMATCH!aioe.org!.POSTED!not-for-mail
From: FigureItOut <LocusPocus@magicregion.org>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Wed, 23 Feb 2011 18:38:18 -0800
Organization: Iseeseeyouseesee.org
Lines: 25
Message-ID: <m0hbm6ltbs2043hv5016guoi15050ksm1g@4ax.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<9fo2m6hrjti4ldr0enenoh2hujl28ecvuq@4ax.com>
<be7d$4d61790b$d8baf3b7$3554@KNOLOGY.NET>
Reply-To: Simon
NNTP-Posting-Host: q/lsrDyVMp/7uX+cbx8qaA.user.speranza.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Notice: Filtered by postfilter v. 0.8.2
X-Newsreader: Forte Agent 4.2/32.1118
Xref: g2news1.google.com sci.electronics.design:216719
rec.radio.amateur.homebrew:4183

On Sun, 20 Feb 2011 14:26:42 -0600, "amdx" <amdx@knology.net> wrote:

>
>"FigureItOut" <LocusPocus@magicregion.org> wrote in message
>news:9fo2m6hrjti4ldr0enenoh2hujl28ecvuq@4ax.com...
>> On Sun, 20 Feb 2011 09:20:12 -0600, "amdx" <amdx@knology.net> wrote:
>>
>>>http://i395.photobucket.com/albums/pp37/Qmavam/1cmx1cmspaced5mm.jpg
>>>
>>>The plates are 1 cm x 1 cm spaced 5 mm apart.
>>
>>
>>  Ever consider simply using a proper air core variable cap?
>
>You have any 0.3pf  air variables.

  You could manage .3 with the empty tank alone.

>Why is this one improper?
>               Mikek

  Because applying the lid changed the value.  Duh.

  That air gap is so big that even local electrostatic fields would fuck
with it.


From 8251527424130520947
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
```

```
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!feeds.phibee-
telecom.net!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-
mail
From: John - KD5YI <sophi.2@invalid.org>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Wed, 23 Feb 2011 20:56:40 -0600
Organization: A noiseless patient Spider
Lines: 37
Message-ID: <ik4hdb$snq$1@news.eternal-september.org>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<9fo2m6hrjti4ldr0enenoh2hujl28ecvuq@4ax.com>
<be7d$4d61790b$d8baf3b7$3554@KNOLOGY.NET>
<m0hbm6ltbs2043hv5016guoi15050ksm1g@4ax.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 24 Feb 2011 02:56:43 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="R1JcZqQrnJVzF0KrDRtdjQ";
     logging-data="29434"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19//P34XVmn6xopLnTt04Is"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.13) Gecko/
20101207 Thunderbird/3.1.7
In-Reply-To: <m0hbm6ltbs2043hv5016guoi15050ksm1g@4ax.com>
Cancel-Lock: sha1:Bf86ePLUcpzSvEYMMzrFFQd/W2U=
Xref: g2news1.google.com sci.electronics.design:216726
rec.radio.amateur.homebrew:4184
```

On 2/23/2011 8:38 PM, FigureItOut wrote:

> On Sun, 20 Feb 2011 14:26:42 -0600, "amdx"<amdx@knology.net> wrote:
>
>>
>> "FigureItOut"<LocusPocus@magicregion.org> wrote in message
>> news:9fo2m6hrjti4ldr0enenoh2hujl28ecvuq@4ax.com...
>>> On Sun, 20 Feb 2011 09:20:12 -0600, "amdx"<amdx@knology.net> wrote:
>>>
>>>> http://i395.photobucket.com/albums/pp37/Qmavam/1cmx1cmspaced5mm.jpg
>>>>
>>>> The plates are 1 cm x 1 cm spaced 5 mm apart.
>>>
>>>
>>>   Ever consider simply using a proper air core variable cap?
>>
>> You have any 0.3pf air variables.
>
>   You could manage .3 with the empty tank alone.
>

Can you back that up with calculations using believable numbers?

```
>> Why is this one improper?
>>                Mikek
>
>    Because applying the lid changed the value.  Duh.
>
>    That air gap is so big that even local electrostatic fields would fuck
> with it.


Plagiarism from an earlier post aside, you are on the verge of offering
some legitimate advice. But your delivery sucks more than a vacuum.
Maybe you have a black hole. You should look into that. Literally.




From 7374447159386010822
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!193.201.147.78.MISMATCH!feeder.news-service.com!
94.75.214.39.MISMATCH!aioe.org!.POSTED!not-for-mail
From: FigureItOut <LocusPocus@magicregion.org>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Thu, 24 Feb 2011 04:23:09 -0800
Organization: Iseeseeyouseesee.org
Lines: 18
Message-ID: <71jcm61fvo7fgsmcq9o80vh5q8lqj3mcrk@4ax.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<9fo2m6hrjti4ldr0enenoh2hujl28ecvuq@4ax.com>
<be7d$4d61790b$d8baf3b7$3554@KNOLOGY.NET>
<m0hbm6ltbs2043hv5016guoi15050ksm1g@4ax.com> <ik4hdb$snq$1@news.eternal-
september.org>
Reply-To: Simon
NNTP-Posting-Host: q/lsrDyVMp/7uX+cbx8qaA.user.speranza.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Notice: Filtered by postfilter v. 0.8.2
X-Newsreader: Forte Agent 4.2/32.1118
Xref: g2news2.google.com sci.electronics.design:231490
rec.radio.amateur.homebrew:4482

On Wed, 23 Feb 2011 20:56:40 -0600, John - KD5YI <sophi.2@invalid.org>
wrote:
```

>Can you back that up with calculations using believable numbers?

Fuck you, you fucking retard. Did you not read the post? He said that putting the lid on changed the value. You would have to be a complete dolt (you are) to miss that one!

Again, come back when you are not being your usual mouthy little bitch self.

Plagiarism? You're an idiot, and a goddamned liar, boy. I was making feedback circuit caps before you even knew what an antenna match was.

Fuck off, Johnny. Die, Johnny. Die painfully, Johnny. Go mouth someone more deserving of the shit you spew...   your mother.

```
From -9111387537999534117
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news-out.octanews.net!mauve.octanews.net!news.astraweb.com!
border6.newsrouter.astraweb.com!not-for-mail
From: JW <none@dev.null>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Thu, 24 Feb 2011 08:33:03 -0500
Message-ID: <6ekcm6dl8d8jkumodnfmm4cr2u86tm7mh8@4ax.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<9fo2m6hrjti4ldr0enenoh2hujl28ecvuq@4ax.com>
<be7d$4d61790b$d8baf3b7$3554@KNOLOGY.NET>
<m0hbm6ltbs2043hv5016guoi15050ksm1g@4ax.com> <ik4hdb$snq$1@news.eternal-
september.org> <71jcm61fvo7fgsmcq9o80vh5q8lqj3mcrk@4ax.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 24
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 5b8d4f2b.news.astraweb.com
X-Trace: DXC=?cEA_^HEl5M\kdljK^UWoEL?0kYOcDh@J`7AeJ]BoMVAgNUH?
V8:>HMl9B_G1R=S=G7\Dci5Q4]lOaJDT8Gm_[EDcE17c4onKkBenaeSgo0>dB
Xref: g2news1.google.com sci.electronics.design:216785
rec.radio.amateur.homebrew:4186
```

On Thu, 24 Feb 2011 04:23:09 -0800 FigureItOut
<LocusPocus@magicregion.org> wrote in Message id:
<71jcm61fvo7fgsmcq9o80vh5q8lqj3mcrk@4ax.com>:

>On Wed, 23 Feb 2011 20:56:40 -0600, John - KD5YI <sophi.2@invalid.org>
>wrote:

>
>>Can you back that up with calculations using believable numbers?
>
>
> Fuck you, you fucking retard. Did you not read the post? He said that
>putting the lid on changed the value. You would have to be a complete
>dolt (you are) to miss that one!
>
> Again, come back when you are not being your usual mouthy little bitch
>self.
>
> Plagiarism? You're an idiot, and a goddamned liar, boy. I was making
>feedback circuit caps before you even knew what an antenna match was.
>
> Fuck off, Johnny. Die, Johnny. Die painfully, Johnny. Go mouth
>someone more deserving of the shit you spew...   your mother.

How do you type with a straitjacket on?

From 253219357067223121
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!193.201.147.93.MISMATCH!xlned.com!feeder7.xlned.com!
newsfeed.kpn.net!pfeed09.wxs.nl!news.astraweb.com!
border5.a.newsrouter.astraweb.com!not-for-mail
From: Pomegranate Bastard <pommyB@dsl.pipex.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Thu, 24 Feb 2011 14:23:05 +0000
Message-ID: <ubqcm6tp67e0g89aaot4r3cju4kpslob4v@4ax.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<9fo2m6hrjti4ldr0enenoh2hujl28ecvuq@4ax.com>
<be7d$4d61790b$d8baf3b7$3554@KNOLOGY.NET>
<m0hbm6ltbs2043hv5016guoi15050ksm1g@4ax.com> <ik4hdb$snq$1@news.eternal-september.org> <71jcm61fvo7fgsmcq9o80vh5q8lqj3mcrk@4ax.com>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 24
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 299fa068.news.astraweb.com
X-Trace: DXC=mhQ6;ohmY?E0UO2<>T]L;AL?0kYOcDh@J_Gc:
[NOgJOHLZSCoT3j]eC=3bK=jANH;@j7=jYYP_nLMOXPVHjXka=L=YWEBkT`4NFZ:XiOBGTUiN
Xref: g2news2.google.com sci.electronics.design:231499
rec.radio.amateur.homebrew:4484

```
On Thu, 24 Feb 2011 04:23:09 -0800, FigureItOut
<LocusPocus@magicregion.org> wrote:

>On Wed, 23 Feb 2011 20:56:40 -0600, John - KD5YI <sophi.2@invalid.org>
>wrote:
>
>>Can you back that up with calculations using believable numbers?
>
>
> Fuck you, you fucking retard.  Did you not read the post?  He said that
>putting the lid on changed the value.  You would have to be a complete
>dolt (you are) to miss that one!
>
> Again, come back when you are not being your usual mouthy little bitch
>self.
>
>  Plagiarism?  You're an idiot, and a goddamned liar, boy.  I was making
>feedback circuit caps before you even knew what an antenna match was.

So what made you take up pushing a mop?

>
>  Fuck off, Johnny.  Die, Johnny.  Die painfully, Johnny. Go mouth
>someone more deserving of the shit you spew...   your mother.



From -4942326988781289510
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!weretis.net!
feeder5.news.weretis.net!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: John - KD5YI <sophi.2@invalid.org>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Thu, 24 Feb 2011 13:03:29 -0600
Organization: A noiseless patient Spider
Lines: 22
Message-ID: <ik6a24$mk5$1@news.eternal-september.org>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<9fo2m6hrjti4ldr0enenoh2hujl28ecvuq@4ax.com>
<be7d$4d61790b$d8baf3b7$3554@KNOLOGY.NET>
<m0hbm6ltbs2043hv5016guoi15050ksm1g@4ax.com> <ik4hdb$snq$1@news.eternal-
september.org> <71jcm61fvo7fgsmcq9o80vh5q8lqj3mcrk@4ax.com>
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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 24 Feb 2011 19:03:32 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="R1JcZqQrnJVzF0KrDRtdjQ";
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logging-data="23173"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX19pIYHW1ZqbYzLqDtSr/dSG"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.13) Gecko/
20101207 Thunderbird/3.1.7
In-Reply-To: <71jcm61fvo7fgsmcq9o80vh5q8lqj3mcrk@4ax.com>
Cancel-Lock: sha1:mcikzKY2GiJxB3qDKatlIgmq3Ss=
Xref: g2news1.google.com sci.electronics.design:216847
rec.radio.amateur.homebrew:4188

On 2/24/2011 6:23 AM, FigureItOut wrote:
> On Wed, 23 Feb 2011 20:56:40 -0600, John - KD5YI<sophi.2@invalid.org>
> wrote:

To put this back in context, you said:

>> You could manage .3 with the empty tank alone.
>>

And I said:

>> Can you back that up with calculations using believable numbers?
>

I read the post. But I challenged you to prove what you asserted knowing
that you could not.

>
>   Again, come back when you are not being your usual mouthy little bitch
> self, NymNuts, AlwaysWrong, PomegranateHead.

From 4192198914342606909
X-Google-Thread: fc2a5,8e9892758d5384ba
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!goblin2!goblin.stu.neva.ru!
cyclone03.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf01.ams.highwinds-media.com!newsfe08.ams2.POSTED!00000000!not-for-mail
From: "Andrew Holme" <ah@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
References: <zQh9p.228282$Ud7.114682@en-nntp-16.dc1.easynews.com>
Subject: Re: Some questions on IF transformers
Lines: 53
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
Message-ID: <fXB9p.81779$qA1.43216@newsfe08.ams2>
NNTP-Posting-Host: 80.177.105.226

X-Complaints-To: abuse@demon.net
X-Trace: newsfe08.ams2 1298590539 80.177.105.226 (Thu, 24 Feb 2011 23:35:39 UTC)
NNTP-Posting-Date: Thu, 24 Feb 2011 23:35:39 UTC
Date: Thu, 24 Feb 2011 23:35:39 -0000
Xref: g2news2.google.com rec.radio.amateur.homebrew:4486

"Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in message
news:zQh9p.228282$Ud7.114682@en-nntp-16.dc1.easynews.com...
>I graduated from college back in the 1994, and even then we were admonished
>to avoid magnetics whenever possible. Of course, these days I know better,
>but as a result my academic coverage of IF transformers was non-existant.
>
> I'm now trying to make up for that transgression. :-)
>
> I've done a fair amount of reading and have a good understanding on how IF
> transformers work, how they should be modeled, how to build them, etc.
> (Most of the books that address this in detail are from the 1970s or
> older, it seems...) I still have a few questions, though, that I'm hoping
> a few of the older reads could help me out on. They are:
>

[snip]

> 2) I can readily see why you'd want a center-tapped primary, or a primary
> with, say, a tap 10% "up" as a small feedback winding, but why do you get
> such things as an IF transformer with 103 and 50 turns on the primary (on
> either side of the tap) and then 27 turns on the secondary? (E.g.,
> http://www.mouser.com/catalog/specsheets/XC-600014.pdf). None of my
> books address this, and the only thing that looks close on the web is this
> article: http://hem.passagen.se/communication/ifcan.html . Is his
> conclusion, "by tapping the transformer the Q value increases" the main
> reason?

Short answer: yes.

Long answer:

That IF transformer is intended for driving a stage with an input impedance of 5K. When they say the primary impedance is 20k, they mean between pins 2 and 3. 50:27 = ~ 2:1 turns ratio = ~ 4:1 impedance ratio. So you connect pin 2 to the supply and pin 3 to the collector of your transistor and it sees a load of ~ 20k, ignoring coil losses. The 180pF tuning capacitance is connected between pins 1 and 3.   You could try to resonate it by connecting a much larger cap (1.7nF !) between 2 and 3 and not use the 1-2 section at all; but the smaller cap has higher stability, tighter tolerance and lower loss.

The 20k and 5k impedances are dictated by the nature of bipolar transistors.

The required bandwidth and IF centre frequency fix loaded Q.

Dynamic impedance and loaded Q in turn determine the reactance needed at resonance.

You could design an untapped 4:1 impedance ratio transformer to do the same job; but you would have difficulty achieving the required Q.

From 3067636925532828197
X-Google-Thread: 112d1e,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!goblin1!goblin2!goblin.stu.neva.ru!
aioe.org!.POSTED!not-for-mail
From: FigureItOut <LocusPocus@magicregion.org>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: Thu, 24 Feb 2011 16:40:58 -0800
Organization: Iseeseeyouseesee.org
Lines: 46
Message-ID: <nbudm6h4skfdff2nnn691ful0gnnijhkri@4ax.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
<9fo2m6hrjti4ldr0enenoh2hujl28ecvuq@4ax.com>
<be7d$4d61790b$d8baf3b7$3554@KNOLOGY.NET>
<m0hbm6ltbs2043hv5016guoi15050ksm1g@4ax.com> <ik4hdb$snq$1@news.eternal-september.org> <71jcm61fvo7fgsmcq9o80vh5q8lqj3mcrk@4ax.com>
<ik6a24$mk5$1@news.eternal-september.org>
Reply-To: Simon
NNTP-Posting-Host: q/lsrDyVMp/7uX+cbx8qaA.user.speranza.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Notice: Filtered by postfilter v. 0.8.2
X-Newsreader: Forte Agent 4.2/32.1118
Xref: g2news1.google.com sci.electronics.design:216938
rec.radio.amateur.homebrew:4190

On Thu, 24 Feb 2011 13:03:29 -0600, John - KD5YI <sophi.2@invalid.org> wrote:

>On 2/24/2011 6:23 AM, FigureItOut wrote:
>> On Wed, 23 Feb 2011 20:56:40 -0600, John - KD5YI<sophi.2@invalid.org>
>> wrote:
>
>To put this back in context,

  It was never out of context, you retarded fuck.

> you said:

```
>
> >> You could manage .3 with the empty tank alone.
> >>

  And I could.

>And I said:
>
>>> Can you back that up with calculations using believable numbers?
>>

 Then, you mouthed off like a little petty bitch with some lame claim.
You lose.  Fuck off.  Your mother is a slut.

>I read the post.

  Good for you.  Stop acting like you didn't then.

> But I challenged you to prove what you asserted knowing
>that you could not.

  I do not need to prove a goddamned thing to a retarded twit like you.


   Again, come back when you are not being your usual mouthy little bitch
 self, JW, the fucking total retard.

  You're a post-edit little cunt too.  The Pomegranite retard is someone
else, you dumb fuck.

  Write your own lines and stop fucking with mine, pussy boy.

 Better yet, fuck off and die.  I do not need to waste my time on a twit
like you.  Nor will I.


From -6792926833461887816
X-Google-Thread: fc2a5,c2fdf0234367314f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Spamm Trappe <knock_yourself_out@example.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: help designing gimmick capacitor
Date: 25 Feb 2011 01:54:45 GMT
Lines: 46
Message-ID: <slrnime2v5.23kr.knock_yourself_out@shell.config.com>
References: <2c016$4d6130ec$18ec6dd7$14303@KNOLOGY.NET>
 <9fo2m6hrjti4ldr0enenoh2hujl28ecvuq@4ax.com>
 <be7d$4d61790b$d8baf3b7$3554@KNOLOGY.NET>
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 <71jcm61fvo7fgsmcq9o80vh5q8lqj3mcrk@4ax.com>
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Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: individual.net lDw9Zommk39NNctcQbGQhgGn5TE2SSvrorxGKMo6lt+tjB3Jt8
Cancel-Lock: sha1:R6KbyqL2IPo85WDZhOam81MGapk=
User-Agent: slrn/0.9.9p1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4191

On Thu, 24 Feb 2011 16:40:58 -0800, FigureItOut wrote:
> On Thu, 24 Feb 2011 13:03:29 -0600, John - KD5YI wrote:
>>On 2/24/2011 6:23 AM, FigureItOut wrote:
>>> On Wed, 23 Feb 2011 20:56:40 -0600, John - KD5YI wrote:
>>
>>To put this back in context,
>
>   It was never out of context, you retarded fuck.
>
>> you said:
>>
>> >> You could manage .3 with the empty tank alone.
>
>   And I could.
>
>>And I said:
>>
>>>> Can you back that up with calculations using believable numbers?
>
>  Then, you mouthed off like a little petty bitch with some lame claim.
> You lose.  Fuck off.  Your mother is a slut.
>
>>I read the post.
>
>   Good for you.  Stop acting like you didn't then.
>
>> But I challenged you to prove what you asserted knowing
>>that you could not.
>
>   I do not need to prove a goddamned thing to a retarded twit like you.
>
>    Again, come back when you are not being your usual mouthy little bitch
>  self, JW, the fucking total retard.
>
>   You're a post-edit little cunt too.  The Pomegranite retard is someone
> else, you dumb fuck.
>
>   Write your own lines and stop fucking with mine, pussy boy.
>
>  Better yet, fuck off and die.  I do not need to waste my time on a twit
> like you.  Nor will I.
```

It sure doesn't take too much depth in the followups of this NG
before it degenerates into a pissing contest that two or more
uncouth jerks should have taken to private email.

From -9173133482214723043
X-Google-Thread: fc2a5,8e9892758d5384ba
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-06.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <zQh9p.228282$Ud7.114682@en-nntp-16.dc1.easynews.com>
<fXB9p.81779$qA1.43216@newsfe08.ams2>
Subject: Re: Some questions on IF transformers
Lines: 9
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
Message-ID: <O6E9p.257538$Mg5.254257@en-nntp-06.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Thu, 24 Feb 2011 18:04:29 -0800
Xref: g2news1.google.com rec.radio.amateur.homebrew:4192

Thanks Andrew, that helps a lot!

(...I do think in the example I linked to --
http://hem.passagen.se/communication/ifcan.html -- his circuit's Q as drawn
actually increases 1/(0.67^2) times rather than 1/(0.33^2) times, though; I've
e-mailed the guy to ask.)

---Joel

From -74613595438824810
X-Google-Thread: fc2a5,4d4f7e40872a6924,start
X-Google-NewGroupId: yes

X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-12.dc1.easynews.com.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: FS: Speakers in cases
From: Eugene Rippen <soundval@muchstuff.com>
Organization: Your Company
Message-ID: <Xns9E75A3191559er7373@69.16.186.8>
User-Agent: Xnews/5.04.25
Lines: 81
X-Complaints-To: abuse@easynews.com
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Sun, 23 Jan 2011 00:02:00 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:4383

To get the shipping that I will charge, I need the zip. I use FedEx or USPS.
I will sell to out of the USA, but I only ship to USA. (Foreign buyers need
US agents)
I accept PayPal, Checks on USA banks and U.S.Postal Money Orders. (I wait
for 4 Bank Days for check clearances.)
Inquiries and poffers usually will get my responses, but they don't get the items held
from sale to other buyers.

All these speakers work.

National Speaker 8" Case: 10.5" x 10" x 7". Lighter grey. Fair to
Good looking. Will use 9 Lbs. SW. My # ST-1011. $60.00
http://www.muchstuff.com/speakers7-6-10/p1000432.jpg
http://www.muchstuff.com/speakers7-6-10/p1000433.jpg
http://www.muchstuff.com/speakers7-6-10/p1000434.jpg

National Speaker 6" Looks very good. Slight paint rub on right side.
Will use 8 Lbs. as SW. My # ST-1016. $65.00
http://www.muchstuff.com/speakers7-6-10/p1000448.jpg
http://www.muchstuff.com/speakers7-6-10/p1000449.jpg
http://www.muchstuff.com/speakers7-6-10/p1000450.jpg

RME 10" Jensen speaker. Looks good. Will use 15 Lbs. as SW. My # ST-1017. $70.00
http://www.muchstuff.com/speakers7-6-10/p1000457.jpg
http://www.muchstuff.com/speakers7-6-10/p1000458.jpg
http://www.muchstuff.com/speakers7-6-10/p1000459.jpg

"National Radio Inc."? Speaker is 8". Looks fair to good. Note the remnants of call letters at bottom of front. Will use 9 Lbs. as SW. My # ST-1018. $55.00.
http://www.muchstuff.com/speakers7-6-10/p1000454.jpg
http://www.muchstuff.com/speakers7-6-10/p1000455.jpg
http://www.muchstuff.com/speakers7-6-10/p1000456.jpg

RME 10" Jensen speaker. Case: 12.5" x 12" x 7". Looks good. Will use 15 Lbs. as SW. My # ST1026. $70.00
http://www.muchstuff.com/speakers7-6-10/p1000481.jpg
http://www.muchstuff.com/speakers7-6-10/p1000482.jpg
http://www.muchstuff.com/speakers7-6-10/p1000483.jpg

It may be a Hammarlund PSC-10. 10" Utah speaker. Case: 12.5� x 12.5" x 7". Has rheostat and knife switch (at no extra charge). Will use 15 Lbs as SW. My # ST-1027. $70.00.
http://www.muchstuff.com/speakers7-6-10/p1000484.jpg
http://www.muchstuff.com/speakers7-6-10/p1000485.jpg
http://www.muchstuff.com/speakers7-6-10/p1000486.jpg

National 6" speaker. Case: 10" x 10.25" x 7". Looks good. Darker color than some others this size. Will use 8 Lbs. as SW. My # ST-1029. $55.00
http://www.muchstuff.com/speakers7-6-10/p1000490.JPG
http://www.muchstuff.com/speakers7-6-10/p1000491.JPG
http://www.muchstuff.com/speakers7-6-10/p1000492.jpg

Unknown 10" Jensen speaker. Case: 10.5" x 10" x 7". Looks good. Will use 14 Lbs. as SW. My # ST-1030. $60.00
http://www.muchstuff.com/speakers7-6-10/p1000493.jpg
http://www.muchstuff.com/speakers7-6-10/p1000494.jpg
http://www.muchstuff.com/speakers7-6-10/p1000495.jpg

Realistic SP-150. Looks very good. Will use 5 Lbs. as SW. My # G1040. $40.00.
http://www.muchstuff.com/speakers7-6-10/p1000524.jpg
http://www.muchstuff.com/speakers7-6-10/p1000525.jpg
http://www.muchstuff.com/speakers7-6-10/p1000526.jpg

Eugene Rippe,, WB6SZS

From -3240650559167072806
X-Google-Thread: fc2a5,c58e74cc6605ba9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

```
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!feeder.news-
service.com!85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: "Nordic Breeds WA4VZQ" <ABSOLUTELYwa4vzqNO@SPAMlive.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Mosfet mixer
Date: Sat, 22 Jan 2011 23:47:45 -0500
Organization: A noiseless patient Spider
Lines: 26
Message-ID: <ihgbtj$uuq$1@news.eternal-september.org>
References: <gpugelni.780c598@radiobanter.com>
Injection-Date: Sun, 23 Jan 2011 04:47:47 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="ShEd0pK7SRqHFw2826XTBQ";
     logging-data="31706"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19g5u/v3O5RDdU3XEco/e+Yf3NVIsqTtho="
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18263
In-Reply-To: <gpugelni.780c598@radiobanter.com>
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
Cancel-Lock: sha1:9hlnLmcy9i1JKOR+LrtRyFpPeVw=
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.homebrew:4384
```

"gpugelni" <gpugelni.780c598@radiobanter.com> wrote in message
news:gpugelni.780c598@radiobanter.com...

```
> I need help with this mixer on picture. Is it normal that after BF981
> IF
> amplitude is lower then input signal in mixer (70MHz)? Would not this
> kind of mixer have some small gain? For XTAL I use 20MHz crystal
> instead
> of 60MHz (because I can't find 60MHz crstal) , I have oscilation of 60
> MHz on G2, but I'm not sure is it ok to use 20MHz instead of 60MHz..
> +-------------------------------------------------------------------+
> |Filename: mixer.jpg                                                |
> |Download: http://www.radiobanter.com/attachment.php?attachmentid=804|
> +-------------------------------------------------------------------+
> gpugelni
```

You should be getting a signal gain. The second gate is normally operated such that it switches the FET on an off as a commutating mixer. operated in this manner, it will have low intermodulation distortion but a high noise figure. I suggest you consult "Designing with Field-Effect Transistors." either the first edition by Arthur Evans, Ed., Siliconix or the second edition by Ed Oxner, Ed., Siliconix.

73, Dr. Barry L. Ornitz   WA4VZQ

From -4179444456255382229

```
X-Google-Thread: fc2a5,51f729e7a03113cd
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!j32g2000yqc.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Confused: CLI Linux CW beacon software?
Date: Sun, 23 Jan 2011 07:10:35 -0800 (PST)
Organization: http://groups.google.com
Lines: 33
Message-ID: <7cbb011b-4c27-4e33-85cf-24ca27cecd0b@j32g2000yqc.googlegroups.com>
References: <b9fe2b2e-c48a-4b86-913e-08d18316f036@g26g2000vba.googlegroups.com>
NNTP-Posting-Host: 71.191.185.32
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1295795435 10269 127.0.0.1 (23 Jan 2011 15:10:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 23 Jan 2011 15:10:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j32g2000yqc.googlegroups.com; posting-host=71.191.185.32; posting-
account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux x86_64; en-US) AppleWebKit/534.10
 (KHTML, like Gecko) Chrome/8.0.552.237 Safari/534.10,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4387

On Jan 19, 12:53=A0pm, spamhog <n1...@hotmail.com> wrote:
> Is there any software still being maintained for running a CW beacon-
> like TX in command line Linux?
>
> I am looking for something that could use a serial or parallel port to
> send any specified text file, which would make it capable of sending
> dynamically generated content (acquired or mailed-in and written to
> text).
>
> I saw
> - cwbeacon, which seems self-contained, scriptable (in the above
> sense), but =A0extremely old, unsupported, not included in any current
> repository;
> - cwdaemon for UDP to port keying, where UDP might =A0either simplify
> things OR be an unnecessary passage;
> - unixcw, which is alleged to port-key as an "option" - but I can't
> see it..
>
> Is this all? Is there a howto I missed? Is such CLI capability hidden
> into any GUI app - e.g. as in the vlc-nox =A0player?
>
> tnx es 73 de n1jpr

I just found cwbeacon at ftp://sunsite.unc.edu/pub/Linux/apps/ham/morse/
```

The C code is a little crufty but typical of 90's stuff. You have to
use sys/io.h instead of asm/io.h.

It worked on the one PC I had, that had a real parallel port.

Another option on more modern hardware without a parallel port would
be something like a WKUSB, to drive it you just open up a serial port
(over USB) and send. The WKUSB is really nifty.

From 4109697413686826237
X-Google-Thread: fc2a5,f8f78bd98d2eb20c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!feeder.news-service.com!85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!news.eternal-september.org!.POSTED!not-for-mail
From: davidmylastname@acm.org (David Griffith)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Crystal Wanted
Date: Thu, 27 Jan 2011 07:49:08 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 15
Message-ID: <ihr81j$smh$1@frotz.eternal-september.org>
References: <ZqsKo.10279$784.5792@newsfe28.ams2> <fmmck-B20AD8.00362105122010@5ad64b5e.bb.sky.com> <rDOKo.24415$xk5.6971@newsfe05.ams2> <idgg5r$7cc$1@news.eternal-september.org> <61337a04-7b0a-4cff-8b04-2492bba9fd46@v17g2000prc.googlegroups.com> <fmmck-2BB077.23160512122010@5ad64b5e.bb.sky.com> <ifduj4$ms4$1@news.eternal-september.org>
Injection-Date: Thu, 27 Jan 2011 07:49:08 +0000 (UTC)
Injection-Info: frotz.eternal-september.org; posting-host="k70Yd70asHrVyCdY2SHmdw";
logging-data="29393"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX1+QWRkVaoz1oYPVIp1Rl8yA"
User-Agent: tin/1.9.6-20100522 ("Lochruan") (UNIX) (Linux/2.6.35-24-generic (i686))
Cancel-Lock: sha1:Ql4TtI/TJ1dmLeUxhAjotJd8AUE=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4091

Kenneth Scharf <wa2mze@bellsouth.net> wrote:
> Another thing about these crystals is that they are often found in
> very small SMT packages. I'm not sure that the smallest sizes work
> well in a ladder filter though. The same goes for the 'tuning fork'
> version that uses laser timed metal elements with a very small amount
> of quartz (I've heard that high quality quartz is getting scarce and
> crystal makers are looking at ways to use less).

I think the motivation is to simply make them smaller. Crystals have
been made from synthetic quartz for quite some time now.

--
David Griffith
davidmylastname@acm.org   <--- Put my last name where it belongs

From 1090597081413535249
X-Google-Thread: fc2a5,c58e74cc6605ba9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!goblin3!goblin.stu.neva.ru!
news.netfront.net!newsgate.cuhk.edu.hk!news.neu.edu.cn!news.byr.edu.cn!
feeds.phibee-telecom.net!weretis.net!feeder3.news.weretis.net!
news.datentrampelpfad.de!news.iks-jena.de!newsfeed1.eu.ignite.net!
news1.as3257.net!itgate.net!feeder.news-service.com!216.196.110.144.MISMATCH!
border3.nntp.ams.giganews.com!Xl.tags.giganews.com!border1.nntp.ams.giganews.com!
nntp.giganews.com!local2.nntp.ams.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 30 Jan 2011 11:08:03 -0600
From: gpugelni <gpugelni.78b5198@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Mosfet mixer
Date: Sun, 30 Jan 2011 17:13:05 +0000
Message-ID: <gpugelni.78b5198@radiobanter.com>
Organization: RadioBanter.com
References: <gpugelni.780c598@radiobanter.com>
Lines: 13
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-a8SSG4cgnLJ2+I0kOefaNDRZT4JePwPmgNkV8H/
6JUFYYIAmsvcAuQcqwWRXMYCaUr9Dz6gwdipVoq6!GrwBlh5QEmQb9qIn36OUbgm/
bvPHUBuiCM6Ti2gCn9AE7ZOxP200ioZgVMRFXoftgasbg5WcbVaB!uTa+MXg=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Lines: 3
X-Original-Bytes: 1200
Xref: g2news1.google.com rec.radio.amateur.homebrew:4093

I was find out what is the problem, replace BF981 with BF960 and that's it.

Regards,

+--+
+--+

```
--
gpugelni


From 8266907235631224341
X-Google-Thread: fcc6e,b08a0c9f5cdae93d,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,b08a0c9f5cdae93d,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,b08a0c9f5cdae93d,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,b08a0c9f5cdae93d,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,b08a0c9f5cdae93d,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,b08a0c9f5cdae93d,start
X-Google-NewGroupId: yes
X-Google-Thread: 10e8ad,b08a0c9f5cdae93d,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,b08a0c9f5cdae93d,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf
6,gid8f86f75953,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news-out.readnews.com!
transit4.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1293865200@panix.com>
Followup-To: poster
Date: 1 Feb 2011 02:00:02 -0500
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 06 Mar 2011 02:00:00 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1296543600@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1296543602 3739 166.84.1.2 (1 Feb 2011 07:00:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 1 Feb 2011 07:00:02 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Xref: g2news2.google.com rec.radio.amateur.antenna:22124 rec.radio.amateur.dx:921
rec.radio.amateur.equipment:2681 rec.radio.amateur.homebrew:4392
```

rec.radio.amateur.misc:6072 rec.radio.amateur.policy:32642
rec.radio.amateur.space:472 rec.radio.info:2147

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From -8176632657154817578
X-Google-Thread: fc2a5,a0c4a53edc7b221a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe04.iad.POSTED!4b906575!not-for-mail
From: "NeonGuru" <eugene_77@live.com>
Newsgroups: rec.radio.amateur.homebrew
References: <ec1abfdf-c37f-4047-8e13-aa07153dc3e6@k14g2000pre.googlegroups.com>
Subject: Re: hello
Lines: 7
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
X-RFC2646: Format=Flowed; Original
Message-ID: <ZMz2p.27618$Ga6.22268@newsfe04.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Thu, 03 Feb 2011 15:24:41 UTC
Organization: TeraNews.com
Date: Thu, 3 Feb 2011 07:24:38 -0800
Xref: g2news1.google.com rec.radio.amateur.homebrew:4096

10-4 GoodBuddie?
"geethu" <malargeetha20119159686702@gmail.com> wrote in message
news:ec1abfdf-c37f-4047-8e13-aa07153dc3e6@k14g2000pre.googlegroups.com...
> malargeetha20119159686702@gmail.com
>
```

```
From 5909013072425951666
X-Google-Thread: fc2a5,237568b4064c3dc,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o18g2000prh.googlegroups.com!not-for-
mail
From: 0432167FGSDFS <22gbngbfgbb@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SEXY VIDEOS AND HOT PHOTOS FREE SERVICE
Date: Fri, 4 Feb 2011 02:07:53 -0800 (PST)
Organization: http://groups.google.com
Lines: 60
Message-ID: <7fed9374-311e-454c-89f8-27f4f9c08b23@o18g2000prh.googlegroups.com>
NNTP-Posting-Host: 117.199.240.148
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1296814073 21593 127.0.0.1 (4 Feb 2011 10:07:53 GMT)
X-Complaints-To: groups-abuse@google.com
```

NNTP-Posting-Date: Fri, 4 Feb 2011 10:07:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o18g2000prh.googlegroups.com; posting-host=117.199.240.148;
posting-account=FRkPFQoAAADH0XDrTb7sYp1gdvWGSrza
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.13)
Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4097

ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

for more hot videos

http://videosonblog.blogspot.com/2010/11/masala-videos.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

From 2506764840484541165
X-Google-Thread: 241b302a50,49ef18182f46ac55,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!novia!news-out.readnews.com!transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1294383901@panix.com>
Followup-To: poster
Date: 7 Feb 2011 02:05:01 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 12 Mar 2011 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1297062301@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1297062303 22556 166.84.1.2 (7 Feb 2011 07:05:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 7 Feb 2011 07:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news2.google.com rec.radio.amateur.antenna:22215 rec.radio.amateur.dx:927 rec.radio.amateur.equipment:2685 rec.radio.amateur.homebrew:4396 rec.radio.amateur.misc:6099 rec.radio.amateur.policy:32662 rec.radio.info:2167

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |
rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

```
From -1328641012219512982
X-Google-Thread: 241b302a50,3a2f393ffc231f61,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i39g2000prd.googlegroups.com!not-for-
mail
From: guru <sridatta9247@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SEXY HOT GIRLS
Date: Tue, 8 Feb 2011 07:06:41 -0800 (PST)
Organization: http://groups.google.com
Lines: 60
Message-ID: <3dd2a622-d2be-4f7a-9dd3-4338dc8fbf49@i39g2000prd.googlegroups.com>
NNTP-Posting-Host: 117.199.243.176
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1297177601 6553 127.0.0.1 (8 Feb 2011 15:06:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 8 Feb 2011 15:06:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i39g2000prd.googlegroups.com; posting-host=117.199.243.176;
posting-account=7_cYWQoAAADEvSRHsmIxRMxDGxOUDqs2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.13)
 Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4397

                         HOT HOLLYWOOD ACTRESS
http://karomasti9.blogspot.com/2011/02/ferida-pinto.html
        DEEPIKA PADUKONE HOT VIDEOS
http://karomasti9.blogspot.com/2011/01/deepika-padukone.html
                        HOT ARCHANA STILLS
http://karomasti9.blogspot.com/2011/01/archana.html
          DEEKSHA SETH HOT WALLPAPERS
http://karomasti9.blogspot.com/2011/01/deeksha-seth.html
       KATRINA KAIF HOT VIDEOS&PHOTOS
http://karomasti9.blogspot.com/2011/01/katrina-kaif.html
                 SAMEERAREDDY HOT BOOBS
http://karomasti9.blogspot.com/2011/01/sameerareddy.html
               HOT SEXY ACTRESS
  http://karomasti9.blogspot.com/2011/01/hot.html
               latest hot sruthi hassan stills
 http://karomasti9.blogspot.com/2011/01/shurthihassan-new-stills.html
            UNSEEN HOT SEXY PHOTOS
 http://karomasti9.blogspot.com/2011/01/never.html
             SAMANTHA HOT SEXY PHOTOS
http://karomasti9.blogspot.com/2011/01/samantha.html
                        SEXY DIYA MIRZA
   http://karomasti9.blogspot.com/2010/12/diya-mirza.html
                        HOT AISHWARIYA RAI
http://karomasti9.blogspot.com/2010/12/aish.html
                     priyamani hot&sexy photos
```

```
http://karomasti9.blogspot.com/2010/12/priyamani.html
                      KATRINA SEXY PHOTOS
http://karomasti9.blogspot.com/2010/12/katrina.html
                 ANUSHKA HOT PHOTOS
http://karomasti9.blogspot.com/2010/12/anuska.html
                    BEAUTIFUL AISHWARIYA RAI
http://karomasti9.blogspot.com/2010/12/aiesh.html
                    TRISHA HOT PHOTOS
http://karomasti9.blogspot.com/2010/11/trisha-hot.html
              AMISHAPATEL HOT VIDEOS
http://karomasti9.blogspot.com/search/label/amisha
             HANSIKHA HOT SEXY PHOTOS
http://karomasti9.blogspot.com/search/label/HANSIKA
             HOT SEXY COLLEGE GIRLS
http://karomasti9.blogspot.com/search/label/hot
              BEAUTIFUL LARADATTA
http://karomasti9.blogspot.com/search/label/laradatta
              NIKISHA HOT BOOBS
http://karomasti9.blogspot.com/search/label/nikisha
           PRIYANKA SPICY LATEST PICS
http://karomasti9.blogspot.com/search/label/priyanka
              ONLY FOR YOUTH
http://karomasti9.blogspot.com/search/label/spicy
           SRILEKHA UNSEENED PHOTOS
http://karomasti9.blogspot.com/search/label/Srilekha
             CHOPRA UNBELIVABLE PHOTOS
http://karomasti9.blogspot.com/search/label/chopra
              HOT BIPASA BASU PHOTOS
http://karomasti9.blogspot.com/search/label/bipasa
              TRISHA IN A SEXY FEEL
http://karomasti9.blogspot.com/search/label/thrisha
           SRISHA HOT BOOBS SHOW
http://karomasti9.blogspot.com/search/label/srisha
           BEAUTIFUL POONAM PHOTOS
http://karomasti9.blogspot.com/search/label/poonam


From -4052016180896436565
X-Google-Thread: fc2a5,4339269e3534c90b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k15g2000prk.googlegroups.com!not-for-
mail
From: Your  FRIEND <a.jameel48@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ***VERY VERY USEFUL WEBSITE HERE**PLS JOIN FREE***
Date: Wed, 9 Feb 2011 09:02:48 -0800 (PST)
Organization: http://groups.google.com
Lines: 6
Message-ID: <8fb66fda-3ed5-4c9c-ae81-74733df3a261@k15g2000prk.googlegroups.com>
NNTP-Posting-Host: 117.254.148.200
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1297270968 23105 127.0.0.1 (9 Feb 2011 17:02:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 9 Feb 2011 17:02:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k15g2000prk.googlegroups.com; posting-host=117.254.148.200;
posting-account=62xo7goAAAAzTncF1DV0WkPmyEBv-alj
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.13)
 Gecko/20101203 Firefox/3.6.13 GTB7.1,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4399
```

web page : http://123maza.com/75/mother257/

VERY USEFUL TO YOU... Don't miss..

PLEASE REGISTER THIS WEB PAGE but join free..

```
From -8258022526899070028
X-Google-Thread: fc2a5,5e24c37242fc4609,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q2g2000pre.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HT1000 lithium battery mod?
Date: Thu, 10 Feb 2011 06:23:37 -0800 (PST)
Organization: http://groups.google.com
Lines: 11
Message-ID: <14e10aae-456a-4f45-b0f9-06036aeb6d11@q2g2000pre.googlegroups.com>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1297347885 18715 127.0.0.1 (10 Feb 2011 14:24:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 10 Feb 2011 14:24:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q2g2000pre.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.16)
 Gecko/20101123 SeaMonkey/2.0.11,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4103
```

Hey OT's

I've seen lithium batteries for the HT1000, but theri like 7,2 volts, there are battery adapters for cigar lighter sockets/plug that would have to run at 12.6 volts

My question is can I mod a nicd battery pack and use three A123
lithium cells in it?

73 OT's
de n8zu

```
From -8770688104096438274
X-Google-Thread: 241b302a50,5e24c37242fc4609
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: highlandham <highlandham_nospam@rfburns.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HT1000 lithium battery mod?
Date: Thu, 10 Feb 2011 20:27:27 +0000
Organization: A noiseless patient Spider
Lines: 18
Message-ID: <ij1hni$e63$1@news.eternal-september.org>
References: <14e10aae-456a-4f45-b0f9-06036aeb6d11@q2g2000pre.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 10 Feb 2011 20:27:30 +0000 (UTC)
Injection-Info: mx01.eternal-september.org; posting-host="l0+IqnKRkf4Da6bxpeGEbw";
     logging-data="14531"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18gW/LZAvDbsI8xoP+cSO2Apvdi4kRuo5M="
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.13) Gecko/20101208
Thunderbird/3.1.7 ThunderBrowse/3.3.4
In-Reply-To: <14e10aae-456a-4f45-b0f9-06036aeb6d11@q2g2000pre.googlegroups.com>
Cancel-Lock: sha1:+l2ikjOFtGJZuHMZ0rfbzLAAe5Q=
Xref: g2news1.google.com rec.radio.amateur.homebrew:4104
```

On 10/02/11 14:23, raypsi wrote:

> Hey OT's
>
> I've seen lithium batteries for the HT1000, but theri like 7,2 volts,
> there are battery adapters for cigar lighter sockets/plug that would
> have to run at 12.6 volts
>
> My question is can I mod a nicd battery pack and use three A123
> lithium cells in it?
>
> 73 OT's
> de n8zu

=============================

The charge regime for lithium batteries differs from that for NiCad/NiMH
batteries. My Maha MH-C777plus charger has a switch for Ni<---> Li
batteries. Suggest you find out what's the difference,through Google.

Frank GM0CSZ / KN6WH

```
From -8890231209309838893
X-Google-Thread: fc2a5,5e24c37242fc4609
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!n10g2000yqf.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HT1000 lithium battery mod?
Date: Thu, 10 Feb 2011 15:05:55 -0800 (PST)
Organization: http://groups.google.com
Lines: 31
Message-ID: <adbbb38e-0132-4b1b-aa8a-b1ead9ceac42@n10g2000yqf.googlegroups.com>
References: <14e10aae-456a-4f45-b0f9-06036aeb6d11@q2g2000pre.googlegroups.com>
<ij1hni$e63$1@news.eternal-september.org>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1297379155 10966 127.0.0.1 (10 Feb 2011 23:05:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 10 Feb 2011 23:05:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n10g2000yqf.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1;
 Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
 3.0.30729; MAAU; .NET4.0C; InfoPath.3; MAAU),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4105

On Feb 10, 3:27=A0pm, highlandham <highlandham_nos...@rfburns.eu> wrote:
> On 10/02/11 14:23, raypsi wrote:> Hey OT's
>
> > I've seen lithium batteries for the HT1000, but theri like 7,2 volts,
> > there are battery adapters for cigar lighter sockets/plug that would
> > have to run at 12.6 volts
>
> > My question is can I mod a nicd battery pack and use three A123
> > lithium cells in it?
>
> > 73 OT's
> > de n8zu
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D
> The charge regime for lithium batteries differs from that for NiCad/NiMH
> batteries. My Maha MH-C777plus charger has a switch for =A0Ni<---> Li
```

> batteries. Suggest you find out what's the difference,through Google.
>
> Frank =A0GM0CSZ / KN6WHm

Hey OM:

yeah I'm aware of the charge diff for the diff chemistries, I have
charger for multiple lithium cells. sounds like if I use 3 cells I
will need a cuck switching regulator to keep the voltage at 8.4vdc,
which is the max voltage charge of 6 nicd cells. Or just put 3 cells
into a 12.6vdc cigar plug adapter.

73 OM,
de n8zu

From -8572687194352764331
X-Google-Thread: fc2a5,5e24c37242fc4609
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
cyclone03.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf01.ams.highwinds-media.com!newsfe13.ams2.POSTED!00000000!not-for-mail
Reply-To: "Crispytwotrees@notallthere.com" <twoCrispytrees@notallthere.com>
From: <Crispytwotrees@notallthere.com>
Newsgroups: rec.radio.amateur.homebrew
References: <14e10aae-456a-4f45-b0f9-06036aeb6d11@q2g2000pre.googlegroups.com>
<ij1hni$e63$1@news.eternal-september.org> <adbbb38e-0132-4b1b-aa8a-
b1ead9ceac42@n10g2000yqf.googlegroups.com>
In-Reply-To: <adbbb38e-0132-4b1b-aa8a-b1ead9ceac42@n10g2000yqf.googlegroups.com>
Subject: Re: HT1000 lithium battery mod?
Lines: 7
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18263
Message-ID: <t3%4p.5396$Xf4.4198@newsfe13.ams2>
NNTP-Posting-Host: 86.6.80.238
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe13.ams2 1297382745 86.6.80.238 (Fri, 11 Feb 2011 00:05:45 UTC)
NNTP-Posting-Date: Fri, 11 Feb 2011 00:05:45 UTC
Organization: virginmedia.com
Date: Fri, 11 Feb 2011 00:05:41 -0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:4106

My question is can I mod a nicd battery pack and use three A123 lithium cells in it?

Don't know as I really have the authority to let you, but its Christmas so yep why not. Go on you help yourself man.
Enjoy, but don't let on I said you could.

```
From 732814206239166841
X-Google-Thread: fc2a5,5db4978012cc337d,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!x11g2000yqc.googlegroups.com!not-for-
mail
From: FyberOptic <fyberoptic@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Emulating a crystal
Date: Thu, 10 Feb 2011 21:35:13 -0800 (PST)
Organization: http://groups.google.com
Lines: 23
Message-ID: <78af6f86-5aaf-4494-aff4-14b9084963f5@x11g2000yqc.googlegroups.com>
NNTP-Posting-Host: 68.118.107.227
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1297402513 26859 127.0.0.1 (11 Feb 2011 05:35:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 11 Feb 2011 05:35:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x11g2000yqc.googlegroups.com; posting-host=68.118.107.227;
posting-account=-CaHNAoAAABulc43rLZ75RBEYyEFJ0sY
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US)
 AppleWebKit/534.13 (KHTML, like Gecko) Chrome/9.0.597.94 Safari/534.13,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4107
```

Hey folks, I was wondering if anyone better versed in analog electronics could help me out with an idea. I've seen various projects on the internet where people have repurposed old radio equipment for other uses, like using a CB to receive amateur radio frequencies. So stuff like that got me wondering. I have an old crystal-based scanner that belonged to my dad. It has a range of 30-50 and 148-174mhz. While police/fire/rescue have all moved to digital systems, I know that the city's public works still uses frequencies in the latter range. I'd like to be able to receive those, without buying several crystals. So I'm wondering if it's possible to create some kind of oscillator (LC-based or whatever) to simulate a crystal for this type of device. It wouldn't be nearly as accurate/stable of course, but I'm curious if it's possible.

I mean, I'm sure if one went in and started trying to physically modify it they could find where to directly inject an external oscillator frequency. But I'd prefer to keep it in its original state

if possible. That would mean I would have to work with whatever
circuitry normally generates the oscillation with the crystal. That's
why for starters I'm mostly asking in a broad sense if it's possible.
I know anything more detailed than that might be hard to offer without
knowing what's actually in the scanner (even I don't have a
schematic), but any insight would be much appreciated!

From 2527943703697844727
X-Google-Thread: fc2a5,5db4978012cc337d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border4.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
feedme.ziplink.net!news1.ipswitchs.cmm!ddl
From: ddl@danlan.*com (Dan Lanciani)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Emulating a crystal
Message-ID: <1355637@news1.IPSWITCHS.CMM>
Date: 11 Feb 2011 06:10:34 GMT
References: <78af6f86-5aaf-4494-aff4-14b9084963f5@x11g2000yqc.googlegroups.com>
Organization: Internet
Lines: 22
Xref: g2news2.google.com rec.radio.amateur.homebrew:4405

In article <78af6f86-5aaf-4494-aff4-14b9084963f5@x11g2000yqc.googlegroups.com>,
fyberoptic@gmail.com (FyberOptic) writes:

| Hey folks, I was wondering if anyone better versed in analog
| electronics could help me out with an idea. I've seen various
| projects on the internet where people have repurposed old radio
| equipment for other uses, like using a CB to receive amateur radio
| frequencies. So stuff like that got me wondering. I have an old
| crystal-based scanner that belonged to my dad. It has a range of
| 30-50 and 148-174mhz. While police/fire/rescue have all moved to
| digital systems, I know that the city's public works still uses
| frequencies in the latter range. I'd like to be able to receive
| those, without buying several crystals. So I'm wondering if it's
| possible to create some kind of oscillator (LC-based or whatever) to
| simulate a crystal for this type of device. It wouldn't be nearly as
| accurate/stable of course, but I'm curious if it's possible.

My father did exactly that with a 70's vintage Radio Shack scanner. He
put a knob on the side near the end crystal in the crystal compartment.
I probably still have it somewhere.

Dan Lanciani
ddl@danlan.*com

From -7262159621417936490
X-Google-Thread: fc2a5,5e24c37242fc4609

```
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!y4g2000prh.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HT1000 lithium battery mod?
Date: Fri, 11 Feb 2011 05:37:46 -0800 (PST)
Organization: http://groups.google.com
Lines: 19
Message-ID: <ab1000cf-6848-4251-a98f-47bb36e9fe09@y4g2000prh.googlegroups.com>
References: <14e10aae-456a-4f45-b0f9-06036aeb6d11@q2g2000pre.googlegroups.com>
 <ij1hni$e63$1@news.eternal-september.org> <adbbb38e-0132-4b1b-aa8a-
b1ead9ceac42@n10g2000yqf.googlegroups.com>
 <t3%4p.5396$Xf4.4198@newsfe13.ams2>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1297431466 13614 127.0.0.1 (11 Feb 2011 13:37:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 11 Feb 2011 13:37:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y4g2000prh.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.16)
 Gecko/20101123 SeaMonkey/2.0.11,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4406
```

On Feb 10, 7:05=A0pm, <Crispytwotr...@notallthere.com> wrote:

> My question is can I mod a nicd battery pack and use three A123
> lithium cells in it?
>
> Don't know as I really have the authority to let you, but its Christmas s=
o
> yep why not. Go on you help yourself man.
> Enjoy, but don't let on I said you could.

hey OM.
Good idea wish I would have thought of that first,
but there might be 10wvdc electrolytic caps in there and they might
not likes 12.6vdc,
so upon your 'vice I will looky at the schematic n see if dat's true.
73 OM.
de n8zu

From -1046864558746657186

X-Google-Thread: fc2a5,5e24c37242fc4609
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!feeder.news-service.com!cyclone02.ams2.highwinds-media.com!news.highwinds-media.com!npeersf01.ams.highwinds-media.com!newsfe14.ams2.POSTED!00000000!not-for-mail
Reply-To: "Crispytwotrees@notallthere.com" <twoCrispytrees@notallthere.com>
From: <Crispytwotrees@notallthere.com>
Newsgroups: rec.radio.amateur.homebrew
References: <14e10aae-456a-4f45-b0f9-06036aeb6d11@q2g2000pre.googlegroups.com> <ij1hni$e63$1@news.eternal-september.org> <adbbb38e-0132-4b1b-aa8a-b1ead9ceac42@n10g2000yqf.googlegroups.com> <t3%4p.5396$Xf4.4198@newsfe13.ams2> <ab1000cf-6848-4251-a98f-47bb36e9fe09@y4g2000prh.googlegroups.com>
In-Reply-To: <ab1000cf-6848-4251-a98f-47bb36e9fe09@y4g2000prh.googlegroups.com>
Subject: Re: HT1000 lithium battery mod?
Lines: 4
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18263
Message-ID: <rkb5p.8544$ts7.5150@newsfe14.ams2>
NNTP-Posting-Host: 86.6.80.238
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe14.ams2 1297432983 86.6.80.238 (Fri, 11 Feb 2011 14:03:03 UTC)
NNTP-Posting-Date: Fri, 11 Feb 2011 14:03:03 UTC
Organization: virginmedia.com
Date: Fri, 11 Feb 2011 14:02:58 -0000
Xref: g2news2.google.com rec.radio.amateur.homebrew:4407

Te he all the best.

Lets hope them aliens aren't out next full moon.
I just love them Dutch coffee shops.

From -2410570383416457654
X-Google-Thread: fc2a5,5e24c37242fc4609
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!1g2000pro.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HT1000 lithium battery mod?
Date: Fri, 11 Feb 2011 06:21:02 -0800 (PST)

```
Organization: http://groups.google.com
Lines: 22
Message-ID: <5246e72a-c8ef-427c-a459-c6c94feeefe9@1g2000pro.googlegroups.com>
References: <14e10aae-456a-4f45-b0f9-06036aeb6d11@q2g2000pre.googlegroups.com>
 <ij1hni$e63$1@news.eternal-september.org> <adbbb38e-0132-4b1b-aa8a-
b1ead9ceac42@n10g2000yqf.googlegroups.com>
 <t3%4p.5396$Xf4.4198@newsfe13.ams2> <ab1000cf-6848-4251-
a98f-47bb36e9fe09@y4g2000prh.googlegroups.com>
 <rkb5p.8544$ts7.5150@newsfe14.ams2>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1297434063 30844 127.0.0.1 (11 Feb 2011 14:21:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 11 Feb 2011 14:21:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 1g2000pro.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.16)
 Gecko/20101123 SeaMonkey/2.0.11,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4408

On Feb 11, 9:02=A0am, <Crispytwotr...@notallthere.com> wrote:
> Te he all the best.
>
> Lets hope them aliens aren't out next full moon.
> I just love them Dutch coffee shops.

Hey OM.
Thank you very much
I took a looky at the parts list and schematic damn if you weren't
right on the money.
There are a few 10wvdc caps in there but they are on secondary
supplies all the rest are 16wvdc caps and on the primary supply .
I worked with sum of those aliens when the INS came they went a
running big time. what pissed them off was I was making overtime pay
after 40 hours and because they was considered agricultural they can't
gits overtime pay. man talk about sum pisssed off aliens, and at 90
degrees F in the greenhouses and they was wearing 2 winter coats and 2
hoodies, once when it got to 110 degrees F they took off their winter
coats but they still had their hoodies on
gotta love them aliens,
73 OM,
de n8zu


From -7628960016869852606
X-Google-Thread: fc2a5,5db4978012cc337d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
```

```
Path: g2news2.google.com!postnews.google.com!q40g2000prh.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Emulating a crystal
Date: Fri, 11 Feb 2011 08:12:54 -0800 (PST)
Organization: http://groups.google.com
Lines: 62
Message-ID: <1f163e24-4c8a-4fbd-ac10-8aec1964b7b3@q40g2000prh.googlegroups.com>
References: <78af6f86-5aaf-4494-aff4-14b9084963f5@x11g2000yqc.googlegroups.com>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1297440775 27830 127.0.0.1 (11 Feb 2011 16:12:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 11 Feb 2011 16:12:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q40g2000prh.googlegroups.com; posting-host=99.65.160.151; posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.16)
 Gecko/20101123 SeaMonkey/2.0.11,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4409
```

hey ole man:

been there done that.

Scanners that used crystals are pretty straight forward in todays standards, no secrets there.
I made a living selling the crystals for those scanners.
Or you could do a PIC stamp based cpu that programmed from a regular PC could do what you need to be done.
a.k.a. frequency synthesis, and scan the scanner with just the PIC using the scanner as an IF

To beef it up would need sum front end work or, software to program out the images.

Transverters do that all the time and is very common place in ham radio.

hhey

On Feb 11, 12:35=A0am, FyberOptic <fyberop...@gmail.com> wrote:
> Hey folks, I was wondering if anyone better versed in analog
> electronics could help me out with an idea. =A0I've seen various
> projects on the internet where people have repurposed old radio
> equipment for other uses, like using a CB to receive amateur radio
> frequencies. =A0So stuff like that got me wondering. =A0I have an old
> crystal-based scanner that belonged to my dad. =A0It has a range of
> 30-50 and 148-174mhz. =A0While police/fire/rescue have all moved to
> digital systems, I know that the city's public works still uses
> frequencies in the latter range. =A0I'd like to be able to receive
> those, without buying several crystals. =A0So I'm wondering if it's
> possible to create some kind of oscillator (LC-based or whatever) to
> simulate a crystal for this type of device. =A0It wouldn't be nearly as
> accurate/stable of course, but I'm curious if it's possible.
>
> I mean, I'm sure if one went in and started trying to physically
> modify it they could find where to directly inject an external
> oscillator frequency. =A0But I'd prefer to keep it in its original state
> if possible. =A0That would mean I would have to work with whatever
> circuitry normally generates the oscillation with the crystal. =A0That's
> why for starters I'm mostly asking in a broad sense if it's possible.
> I know anything more detailed than that might be hard to offer without
> knowing what's actually in the scanner (even I don't have a
> schematic), but any insight would be much appreciated!

From 3905224069388947555
X-Google-Thread: 241b302a50,5db4978012cc337d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 11 Feb 2011 15:08:02 -0600
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Emulating a crystal
References: <78af6f86-5aaf-4494-aff4-14b9084963f5@x11g2000yqc.googlegroups.com>
<1355637@news1.IPSWITCHS.CMM>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)

```
Date: Fri, 11 Feb 2011 12:26:21 -0800
Message-ID: <dkig28-k3j.ln1@radagast.org>
Lines: 42
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.159.209.148
X-Trace:
sv3-3EHE8kKld8lbaduznqHshViYk4RVDhGlHtCmaIbZzJo1uMcqP1Gmfhi3+wGM5xsireo9yVCksX+LLZ
q!QAeyWhi8IuZlOqECmLEOuoxVYneQ13EqApqREZrPRpH75G2R5n57nYKukaUQuw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 3381
Xref: g2news1.google.com rec.radio.amateur.homebrew:4113
```

>| Hey folks, I was wondering if anyone better versed in analog
>| electronics could help me out with an idea. I've seen various
>| projects on the internet where people have repurposed old radio
>| equipment for other uses, like using a CB to receive amateur radio
>| frequencies. So stuff like that got me wondering. I have an old
>| crystal-based scanner that belonged to my dad. It has a range of
>| 30-50 and 148-174mhz. While police/fire/rescue have all moved to
>| digital systems, I know that the city's public works still uses
>| frequencies in the latter range. I'd like to be able to receive
>| those, without buying several crystals. So I'm wondering if it's
>| possible to create some kind of oscillator (LC-based or whatever) to
>| simulate a crystal for this type of device. It wouldn't be nearly as
>| accurate/stable of course, but I'm curious if it's possible.

Almost certainly, yes. The details would depend on just how the circuitry is designed.

You would probably want to completely bypass the existing crystal-oscillator circuit, and inject the appropriate local-oscillator signal (created by your new tunable oscillator) near the point where the crystal-oscillator signal is fed to the "mixer".

As to the type of oscillator you could use... you could build an LC circuit, of course. If you want something a bit more off-the-shelf, you could buy a commercial VCO (voltage controlled oscillator) module from a company such as Mini-Circuits... feed this a very-well-regulated control voltage, through a multi-turn potentiometer, and feed the VCO's output to the scanner's mixer.

The scanner documentation probably tells you what crystal frequencies correspond to which over-the-air frequencies (i.e. what the "offset" is). If it's a single-conversion receiver, the offset would probably be equal to the operaring frequency of the radio's IF strip and filters. You would need to build (or buy) a variable oscillator circuit, which would generate frequencies covering the correct offset range.

--

Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

```
From 858633484293037838
X-Google-Thread: fc2a5,5db4978012cc337d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!feeder.news-
service.com!94.75.214.39.MISMATCH!aioe.org!.POSTED!not-for-mail
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Emulating a crystal
Date: Fri, 11 Feb 2011 18:02:35 -0500
Organization: Aioe.org NNTP Server
Lines: 34
Message-ID: <fmmck-E963C7.18023311022011@5ad64b5e.bb.sky.com>
References: <78af6f86-5aaf-4494-aff4-14b9084963f5@x11g2000yqc.googlegroups.com>
NNTP-Posting-Host: Nn6D8UfX8oOa8BDK1myxqA.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4412
```

In article
<78af6f86-5aaf-4494-aff4-14b9084963f5@x11g2000yqc.googlegroups.com>,
FyberOptic <fyberoptic@gmail.com> wrote:

> So I'm wondering if it's
> possible to create some kind of oscillator (LC-based or whatever) to
> simulate a crystal for this type of device. It wouldn't be nearly as
> accurate/stable of course, but I'm curious if it's possible.

FO-

Yes it is possible, as others have stated.

The frequency of the oscillator is related to the Intermediate Frequency of the radio. One common IF is 10.7 MHz. As an example, a crystal frequency of 39.3 MHz would receive either 50.0 MHz or 28.6 MHz depending on how the radio's Radio Frequency stage is tuned.

Scanners commonly use 3rd overtone crystals in the 25 to 50 MHz range. Higher frequency crystals are possible, but maybe not practical. Therefore, the radio will usually multiply the oscillator frequency to receive the higher bands such as 160 MHz or 470 MHz. What this means to you, is that a Variable Frequency Oscillator (VFO) that covers 25 to 50

MHz (or whatever it takes, you work out the math) will work for both low
and high bands.

To avoid modifying the radio, you may be able to connect the output of
an external VFO to one of the crystal sockets. The original oscillator
would then act as a buffer amplifier. That is if you are lucky. Bad
luck would be if the original oscillator oscillates at some weird
frequency!

Fred
K4DII

```
From 1200419189890591613
X-Google-Thread: fc2a5,5db4978012cc337d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!o14g2000prb.googlegroups.com!not-for-
mail
From: FyberOptic <fyberoptic@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Emulating a crystal
Date: Fri, 11 Feb 2011 16:04:22 -0800 (PST)
Organization: http://groups.google.com
Lines: 31
Message-ID: <436dd58e-fdde-49cf-a382-a592d0cf76d4@o14g2000prb.googlegroups.com>
References: <78af6f86-5aaf-4494-aff4-14b9084963f5@x11g2000yqc.googlegroups.com>
 <fmmck-E963C7.18023311022011@5ad64b5e.bb.sky.com>
NNTP-Posting-Host: 68.118.107.227
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1297469062 29649 127.0.0.1 (12 Feb 2011 00:04:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 12 Feb 2011 00:04:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o14g2000prb.googlegroups.com; posting-host=68.118.107.227;
posting-account=-CaHNAoAAABulc43rLZ75RBEYyEFJ0sY
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US)
 AppleWebKit/534.13 (KHTML, like Gecko) Chrome/9.0.597.94 Safari/534.13,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4413
```

First of all, thanks for the responses so far, guys. The info is
certainly helpful. I'm not completely opposed to modifying the
scanner, but it's good to hear that I might not have to. I'm much
more optimistic now on attempting the project either way.

>
> Scanners commonly use 3rd overtone crystals in the 25 to 50 MHz range. =

=A0
> Higher frequency crystals are possible, but maybe not practical. =A0
> Therefore, the radio will usually multiply the oscillator frequency to
> receive the higher bands such as 160 MHz or 470 MHz. =A0What this means t=
o
> you, is that a Variable Frequency Oscillator (VFO) that covers 25 to 50
> MHz (or whatever it takes, you work out the math) will work for both low
> and high bands.
>

That may very well be the case. If I recall correctly there are high/
low ranges. The "low" range is 30-50mhz, with the "high" at
148-174mhz. Back when my dad used it we'd always assumed that you
bought a crystal for the particular frequency you wanted to hear, but
that may not have been the case!

It's a Radio Shack PRO-77a, by the way, which I saw someone comment
elsewhere that Radio Shack tends to use 10.7 for the IF on that
brand. A shame I can't find any kind of service manual or something
for it.

```
From -5105205334519402227
X-Google-Thread: fc2a5,91b347fe7ca202b9,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l22g2000pre.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT SEXY VIDEOS UNBELEVABLE
Date: Fri, 11 Feb 2011 18:11:33 -0800 (PST)
Organization: http://groups.google.com
Lines: 61
Message-ID: <40b76b22-fdb9-4069-8652-02c8d6746504@l22g2000pre.googlegroups.com>
NNTP-Posting-Host: 117.199.241.162
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1297476693 2643 127.0.0.1 (12 Feb 2011 02:11:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 12 Feb 2011 02:11:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l22g2000pre.googlegroups.com; posting-host=117.199.241.162;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.13)
 Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4117
```

ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

for more hot videos

http://videosonblog.blogspot.com/2010/11/masala-videos.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-

questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

From 6001441256903060454
X-Google-Thread: fc2a5,5db4978012cc337d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!news2.euro.net!
newsgate.cistron.nl!newsgate.news.xs4all.nl!194.109.133.84.MISMATCH!
newsfeed.xs4all.nl!newsfeed5.news.xs4all.nl!xs4all!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Emulating a crystal
References: <78af6f86-5aaf-4494-aff4-14b9084963f5@x11g2000yqc.googlegroups.com>
 <fmmck-E963C7.18023311022011@5ad64b5e.bb.sky.com>
 <436dd58e-fdde-49cf-a382-a592d0cf76d4@o14g2000prb.googlegroups.com>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrnilcl5f.3pd.nomail@xs8.xs4all.nl>
Date: 12 Feb 2011 09:36:47 GMT
Lines: 21
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1297503407 news.xs4all.nl 41114 [::ffff:194.109.21.8]:51400
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:4118

FyberOptic <fyberoptic@gmail.com> wrote:
>
> First of all, thanks for the responses so far, guys. The info is certainly helpful. I'm not completely opposed to modifying the scanner, but it's good to hear that I might not have to. I'm much more optimistic now on attempting the project either way.

While it may be technically interesting, I am amazed that one would consider embarking on such a project...

At least here, scanners have become mostly useless because so many services have switched to digital, and uncountable unused "computer scanners" (= those that already have a frequency synthesizer) are floating around.   A search on a secondhand marketplace site returns tens of "for sale" scanners sold for maybe $10. Just get one, and key in the frequency you are interested in.

(remember that solutions with a VFO will mean you lose the scanning capability so you can monitor only a single frequency at a time, and unless you add some digital readout you won't even know to what frequency you are listening)

~~~
From 1491299462667893502
X-Google-Thread: fc2a5,c14443726a7d3c15,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l22g2000pre.googlegroups.com!not-for-
mail
From: sharu <sharanya9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ROMANTIC SHOW
Date: Sat, 12 Feb 2011 02:30:22 -0800 (PST)
Organization: http://groups.google.com
Lines: 21
Message-ID: <2db5d50d-17a7-45be-805f-78f156d1ef03@l22g2000pre.googlegroups.com>
NNTP-Posting-Host: 117.199.244.165
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1297506625 19049 127.0.0.1 (12 Feb 2011 10:30:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 12 Feb 2011 10:30:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l22g2000pre.googlegroups.com; posting-host=117.199.244.165;
posting-account=-tOWjQoAAACaEPBomNxE2YBklcEhn7dw
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.13)
 Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4119

       ```ONLY HOT VIDEOS FOR YOUTH````

                        HOT VIDEOS
         http://sexy-rainsongs.blogspot.com/
                          FUNNY VIDEOS
http://sexy-rainsongs.blogspot.com/p/funny-video.html
                    TELUGU FUNNY VIDEOS
http://sexy-rainsongs.blogspot.com/p/telugu-funny-videos.html

        DEEPIKA PADUKONE HOT VIDEOS
http://karomasti9.blogspot.com/2011/01/deepika-padukone.html
                        HOT ARCHANA STILLS
http://karomasti9.blogspot.com/2011/01/archana.html
          DEEKSHA SETH HOT WALLPAPERS
http://karomasti9.blogspot.com/2011/01/deeksha-seth.html
       KATRINA KAIF HOT VIDEOS&PHOTOS
http://karomasti9.blogspot.com/2011/01/katrina-kaif.html
~~~

```
                 SAMEERAREDDY HOT BOOBS
http://karomasti9.blogspot.com/2011/01/sameerareddy.html





From -516778481083997872
X-Google-Thread: fc2a5,5db4978012cc337d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!newsfeed.straub-
nv.de!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: highlandham <highlandham_nospam@rfburns.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Emulating a crystal
Date: Sat, 12 Feb 2011 13:37:30 +0000
Organization: A noiseless patient Spider
Lines: 11
Message-ID: <ij62es$ff$1@news.eternal-september.org>
References: <78af6f86-5aaf-4494-aff4-14b9084963f5@x11g2000yqc.googlegroups.com>
<fmmck-E963C7.18023311022011@5ad64b5e.bb.sky.com> <436dd58e-fdde-49cf-a382-
a592d0cf76d4@o14g2000prb.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 12 Feb 2011 13:37:32 +0000 (UTC)
Injection-Info: mx01.eternal-september.org; posting-host="l0+IqnKRkf4Da6bxpeGEbw";
     logging-data="495"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+8wXzxbGt83wilI5wf+YshzcZW/Yey+ow="
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.13) Gecko/20101208
Thunderbird/3.1.7 ThunderBrowse/3.3.4
In-Reply-To: <436dd58e-fdde-49cf-a382-a592d0cf76d4@o14g2000prb.googlegroups.com>
Cancel-Lock: sha1:yEzHYUxFeHKSmH6ZewOQdC+yFN8=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4417

On 12/02/11 00:04, FyberOptic wrote:
> snip
> It's a Radio Shack PRO-77a, by the way, which I saw someone comment
> elsewhere that Radio Shack tends to use 10.7 for the IF on that
> brand.  A shame I can't find any kind of service manual or something
> for it.
=====================================
You might find the manual for the above unit by googling for BAMA


Frank   GM0CSZ / KN6WH


From 8136481274925798966
X-Google-Thread: 108122,afa7d9dbce3e1082,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,afa7d9dbce3e1082,start
```

```
X-Google-NewGroupId: yes
X-Google-Attributes: gidd7f5508063,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: "Percival P. Cassidy" <Nobody@NotMyISP.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Battery charger/maintainer for flooded deep-cycle batteries?
Date: Sat, 12 Feb 2011 18:42:13 -0500
Organization: A noiseless patient Spider
Lines: 17
Message-ID: <ij75sl$uq1$1@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 12 Feb 2011 23:42:14 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="ismYE5oby9ATf5GkPvYE2A";
     logging-data="31553"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/XrCyY534OdNSKQr+Wa+7x"
User-Agent: Mozilla/5.0 (OS/2; U; Warp 4.5; en-US; rv:1.9.2.13) Gecko/20101209
Thunderbird/3.1.7 ThunderBrowse/3.3.4
Cancel-Lock: sha1:wl1SdkvG7ijVyosNL0p7xE/fHkg=
Xref: g2news2.google.com rec.radio.amateur.equipment:2692
rec.radio.amateur.homebrew:4418
```

I'm looking for charger/maintainer -- either an off-the-shelf unit or a schematic so I can build my own -- suitable for a flooded deep-cycle battery, either a pair of 6V "golf cart" batteries in series or a Group 31.

I don't want an RFI generator: I already have one.

I already have a few 13.8V 25A power supplies, one of which I would be quite willing to "crank up" to a higher voltage to compensate for the voltage drop in the control circuitry.

Something like the West Mountain Radio "Super PwrGate" (PG40S) would work, although the automatic switch-over feature is not essential. That device is intended for Gel-Cell and AGM batteries and not recommended for flooded batteries -- absorption-charge voltage too low and float-charge voltage too high, their tech support people tell me.

"Perce"

```
From 4561344177239762810
X-Google-Thread: 108122,afa7d9dbce3e1082
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,afa7d9dbce3e1082
X-Google-NewGroupId: yes
X-Google-Attributes: gidd7f5508063,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
```

news.albasani.net!not-for-mail
From: No Spam <nospam@nospam.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
Date: Sun, 13 Feb 2011 08:14:08 +0000 (UTC)
Organization: albasani.net
Lines: 28
Message-ID: <ij83sg$3ls$1@news.albasani.net>
References: <ij75sl$uq1$1@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
X-Trace: news.albasani.net 6tLwJwrRyhMKD8OMg/xwzwaI5RMOCYwILrZ7gQc/
NDnIi844feCp3xZjXsPoKVBzptIrODsHSqvMMHQ8MeHFzg==
NNTP-Posting-Date: Sun, 13 Feb 2011 08:14:08 +0000 (UTC)
Cancel-Lock: sha1:u23KGrdvxvV2EAgvz/H7wPkyTPg=
Injection-Info: news.albasani.net; logging-data="17j6maCpJmyRedw7mtSvTMLo/
4csPbKZcj0uDAIV+LJ09+M3kreAdL4BECY4wtweqH9R6LoxPSE4PUzRw9zUBnwjJyRWBlyptkiEbCpdNVl
1zdqwauNBqwPyUlR+oRpN"; mail-complaints-to="abuse@albasani.net"
Xref: g2news1.google.com rec.radio.amateur.equipment:2480
rec.radio.amateur.homebrew:4122

On Sat, 12 Feb 2011 18:42:13 -0500, Percival P. Cassidy wrote:

> I'm looking for charger/maintainer -- either an off-the-shelf unit or a
> schematic so I can build my own -- suitable for a flooded deep-cycle
> battery, either a pair of 6V "golf cart" batteries in series or a Group
> 31.
>
> I don't want an RFI generator: I already have one.
>
> I already have a few 13.8V 25A power supplies, one of which I would be
> quite willing to "crank up" to a higher voltage to compensate for the
> voltage drop in the control circuitry.
>
> Something like the West Mountain Radio "Super PwrGate" (PG40S) would
> work, although the automatic switch-over feature is not essential. That
> device is intended for Gel-Cell and AGM batteries and not recommended
> for flooded batteries -- absorption-charge voltage too low and
> float-charge voltage too high, their tech support people tell me.
>
> "Perce"

I am quite happy with my IOTA DLS-45 with the IQ Smart Controller

http://www.iotaengineering.com/iq.htm

Once a week it equalizes my batteries using 14v pulses. The batteries are on their 14th year and can still run my shack for 5 days. (down from a week when I initially purchased the batteries and charger)

From 8117685317118177235

```
X-Google-Thread: 108122,afa7d9dbce3e1082
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,afa7d9dbce3e1082
X-Google-NewGroupId: yes
X-Google-Attributes: gidd7f5508063,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: "Percival P. Cassidy" <Nobody@NotMyISP.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
Date: Sun, 13 Feb 2011 09:17:40 -0500
Organization: A noiseless patient Spider
Lines: 36
Message-ID: <ij8p65$6b5$1@news.eternal-september.org>
References: <ij75sl$uq1$1@news.eternal-september.org>
<ij83sg$3ls$1@news.albasani.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sun, 13 Feb 2011 14:17:41 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="ismYE5oby9ATf5GkPvYE2A";
     logging-data="6501"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18JpAWScgRPNmIr0UVaVJmv"
User-Agent: Mozilla/5.0 (OS/2; U; Warp 4.5; en-US; rv:1.9.2.13) Gecko/20101209
Thunderbird/3.1.7 ThunderBrowse/3.3.4
In-Reply-To: <ij83sg$3ls$1@news.albasani.net>
Cancel-Lock: sha1:HJ8kDph4uEHnQwwhwhJ3plldg1E=
Xref: g2news1.google.com rec.radio.amateur.equipment:2481
rec.radio.amateur.homebrew:4123

On 02/13/11 03:14 am, No Spam wrote:

>> I'm looking for charger/maintainer -- either an off-the-shelf unit or a
>> schematic so I can build my own -- suitable for a flooded deep-cycle
>> battery, either a pair of 6V "golf cart" batteries in series or a Group
>> 31.
>>
>> I don't want an RFI generator: I already have one.
>>
>> I already have a few 13.8V 25A power supplies, one of which I would be
>> quite willing to "crank up" to a higher voltage to compensate for the
>> voltage drop in the control circuitry.
>>
>> Something like the West Mountain Radio "Super PwrGate" (PG40S) would
>> work, although the automatic switch-over feature is not essential. That
>> device is intended for Gel-Cell and AGM batteries and not recommended
>> for flooded batteries -- absorption-charge voltage too low and
>> float-charge voltage too high, their tech support people tell me.

> I am quite happy with my IOTA DLS-45 with the IQ Smart Controller
>
```

> http://www.iotaengineering.com/iq.htm
>
> Once a week it equalizes my batteries using 14v pulses. The batteries are
> on their 14th year and can still run my shack for 5 days. (down from a
> week when I initially purchased the batteries and charger)

I wish I'd known about that IQ unit before I bought an Astron RS-35A
just a month or two back.

I was hoping I could find something not too expensive to take power from
that P/S or from one of my RF-quiet "switchers" to look after the
batteries. Texas Instruments has battery-charging ICs, but I haven't
seen a practical circuit that uses one.

"Perce"

From 5822777982756119138
X-Google-Thread: 108122,afa7d9dbce3e1082
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,afa7d9dbce3e1082
X-Google-NewGroupId: yes
X-Google-Attributes: gidd7f5508063,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!y4g2000prh.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
Date: Sun, 13 Feb 2011 12:35:38 -0800 (PST)
Organization: http://groups.google.com
Lines: 57
Message-ID: <4a6227e6-aa45-4792-810c-ee8d653ab346@y4g2000prh.googlegroups.com>
References: <ij75sl$uq1$1@news.eternal-september.org>
NNTP-Posting-Host: 99.65.160.151
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 Gecko/20101123 SeaMonkey/2.0.11,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:2696 rec.radio.amateur.homebrew:4421

Hey OT:

I used to charge a deep cycle flooded marine battery with the TI

UC3906
data sheet here: http://focus.ti.com/lit/ds/symlink/uc3906.pdf
all you need is a few precision pots and the low resistance resistor
you need to set the max charge current.
I had a 115AH deep cycle flooded marine battery that with a straight
no frills charge took 4 days to charge fully, tested by hydrometer
With 1 foot of 14 gauge wire for the max charge resistor and precision
10 turn pots to set the other settings, and a 30 amp PNP pass
transistor on a fan cooled heat sink I was able to charge that battery
in 8 hours full charge, then it goes to a maintain charge, not a
trickle charge.

Basically I was charging at 23 amps after the UC3906 checked that no
cells were bad, then once it gets to a predetermined voltage it scales
back the charge, all the levels for this are set by multiple precision
pots and you can take it thru 4 levels of charge. I had the max
setting for 15.5 volts when the battery was fully charged to roll back
to maintain charge.

You will need a unregulated 18 volt supply, because the PNP drops 4
volts in VSAT. and once it gets the battery up there in voltage, the
PNP doesn't need to be full on in VSAT

After using auto chargers and straight charges I found the UC3906 the
best choice over all.

There is a switch mode TI chip also but you don't want that one

Mouser stocks these last time I bought them it was like $4 each.

On Feb 12, 6:42=A0pm, "Percival P. Cassidy" <Nob...@NotMyISP.com> wrote:
> I'm looking for charger/maintainer -- either an off-the-shelf unit or a
> schematic so I can build my own -- suitable for a flooded deep-cycle
> battery, either a pair of 6V "golf cart" batteries in series or a Group 3=
1.
>
> I don't want an RFI generator: I already have one.
>
> I already have a few 13.8V 25A power supplies, one of which I would be
> quite willing to "crank up" to a higher voltage to compensate for the
> voltage drop in the control circuitry.
>
> Something like the West Mountain Radio "Super PwrGate" (PG40S) would
> work, although the automatic switch-over feature is not essential. That
> device is intended for Gel-Cell and AGM batteries and not recommended
> for flooded batteries -- absorption-charge voltage too low and
> float-charge voltage too high, their tech support people tell me.
>
> "Perce"

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From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.13) Gecko/20101208
Thunderbird/3.1.7
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
References: <ij75sl$uq1$1@news.eternal-september.org>
<ij83sg$3ls$1@news.albasani.net> <ij8p65$6b5$1@news.eternal-september.org>
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Organization: TeraNews.com
Date: Sun, 13 Feb 2011 14:36:18 -0600
Xref: g2news1.google.com rec.radio.amateur.equipment:2483
rec.radio.amateur.homebrew:4125

On 02/13/2011 08:17 AM, Percival P. Cassidy wrote:
> On 02/13/11 03:14 am, No Spam wrote:
>
>>> I'm looking for charger/maintainer -- either an off-the-shelf unit or a
>>> schematic so I can build my own -- suitable for a flooded deep-cycle
>>> battery, either a pair of 6V "golf cart" batteries in series or a Group
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>
```

>> I am quite happy with my IOTA DLS-45 with the IQ Smart Controller
>>
>> http://www.iotaengineering.com/iq.htm
>>
>> Once a week it equalizes my batteries using 14v pulses. The batteries are
>> on their 14th year and can still run my shack for 5 days. (down from a
>> week when I initially purchased the batteries and charger)
>
> I wish I'd known about that IQ unit before I bought an Astron RS-35A
> just a month or two back.
>
> I was hoping I could find something not too expensive to take power from
> that P/S or from one of my RF-quiet "switchers" to look after the
> batteries. Texas Instruments has battery-charging ICs, but I haven't
> seen a practical circuit that uses one.
>
> "Perce"

You do not need anything too fancy...
to "float" the batteries all you need to do is keep them at approx 2.25
volts / cell...so it's possible that your 13.8 v charger will do the job...

You can test it by checking the total voltage after a 24 hour period...

ideally, a 12v battery should float at about 13.5 volts.

If the float voltage is a little higher or lower it won't be too
critical...but make sure it's well below the 14.2 v gassing point.

I've been in the lead-acid battery business for 36 years...
so have quite a bit of long term empirical data

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X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!y12g2000prf.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
Date: Sun, 13 Feb 2011 13:05:54 -0800 (PST)
Organization: http://groups.google.com
Lines: 82
Message-ID: <7275066c-656f-4c07-b7e4-66ef135909ba@y12g2000prf.googlegroups.com>
References: <ij75sl$uq1$1@news.eternal-september.org>
<ij83sg$3ls$1@news.albasani.net>
<ij8p65$6b5$1@news.eternal-september.org> <9hX5p.32776$nZ2.22378@newsfe03.iad>
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 Gecko/20101123 SeaMonkey/2.0.11,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:2484
rec.radio.amateur.homebrew:4126

Hey OM:

All well and good but taking the battery up to 15.5volts is ok as long
as you keep adding water and have a well vented area to charge them
in. I tried a tested and true way of not going over 14.2 volts took to
long to get the full charge you can check it with a hydrometer and see
that best you can get is 80% of full charge going with 14.2 volts.

With a 18volt unregulated supply and the VSAT of 4 volts the max
charge current voltage can only be 14.00 volts period
you have to take it up to 15.5 volts to get the full charge period.
been there done that.

73 OM
de n8zu



On Feb 13, 3:36=A0pm, philo <ph...@privacy.not> wrote:
> On 02/13/2011 08:17 AM, Percival P. Cassidy wrote:
>
>
>
> > On 02/13/11 03:14 am, No Spam wrote:
>
> >>> I'm looking for charger/maintainer -- either an off-the-shelf unit or=
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> >>> schematic so I can build my own -- suitable for a flooded deep-cycle
> >>> battery, either a pair of 6V "golf cart" batteries in series or a Gro=
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> >>> voltage drop in the control circuitry.
```

```
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>
> >>http://www.iotaengineering.com/iq.htm
>
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are
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> > I wish I'd known about that IQ unit before I bought an Astron RS-35A
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>
> > I was hoping I could find something not too expensive to take power fro=
m
> > that P/S or from one of my RF-quiet "switchers" to look after the
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> > seen a practical circuit that uses one.
>
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5
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> I've been in the lead-acid battery business for 36 years...
> so have quite a bit of long term empirical data



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mail
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From: suma <satyamsivam9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT ACTRESS
Date: Mon, 14 Feb 2011 04:20:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 20
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 Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4127

 BEAUTIFUL LARADATTA
http://karomasti9.blogspot.com/search/label/laradatta
              NIKISHA HOT BOOBS
http://karomasti9.blogspot.com/search/label/nikisha
           PRIYANKA SPICY LATEST PICS
http://karomasti9.blogspot.com/search/label/priyanka
              ONLY FOR YOUTH
http://karomasti9.blogspot.com/search/label/spicy
           SRILEKHA UNSEENED PHOTOS
http://karomasti9.blogspot.com/search/label/Srilekha
             CHOPRA UNBELIVABLE PHOTOS
http://karomasti9.blogspot.com/search/label/chopra
              HOT BIPASA BASU PHOTOS
http://karomasti9.blogspot.com/search/label/bipasa
              TRISHA IN A SEXY FEEL
http://karomasti9.blogspot.com/search/label/thrisha
           SRISHA HOT BOOBS SHOW
http://karomasti9.blogspot.com/search/label/srisha
           BEAUTIFUL POONAM PHOTOS
http://karomasti9.blogspot.com/search/label/poonam


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nord.net!feeder2.enfer-du-nord.net!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: "Percival P. Cassidy" <Nobody@NotMyISP.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
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Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
Date: Mon, 14 Feb 2011 15:39:13 -0500
Organization: A noiseless patient Spider
Lines: 69
Message-ID: <ijc3ti$std$1@news.eternal-september.org>
References: <ij75sl$uq1$1@news.eternal-september.org> <4a6227e6-aa45-4792-810c-ee8d653ab346@y4g2000prh.googlegroups.com>
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In-Reply-To: <4a6227e6-aa45-4792-810c-ee8d653ab346@y4g2000prh.googlegroups.com>
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Xref: g2news1.google.com rec.radio.amateur.equipment:2486 rec.radio.amateur.homebrew:4128

West Mountain Radio claims that their "Super PwrGate" has a voltage drop of only 0.3V to 0.4V, so they can charge a Gel-Cell battery from a 13.8V P/S or can handle an AGM battery simply by raising the P/S voltage to 14.1V. Any idea what they use for a pass transistor?

The "Micro M+" solar battery charger described in some recent editions of the ARRL Handbook uses the STP80PF55 P-Channel MOSFET (80 Amp, R[DSon] = 0.016 Ohm) as the control device. Could this be used in conjunction with the UC3906 without too much difficulty?

"Perce"

On 02/13/11 03:35 pm, raypsi wrote:

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> UC3906
> data sheet here: http://focus.ti.com/lit/ds/symlink/uc3906.pdf
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>
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>> "Perce"
>



From -1183969953189194470
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media.com!newsfe13.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
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MIME-Version: 1.0
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Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
References: <ij75sl$uq1$1@news.eternal-september.org>
<ij83sg$3ls$1@news.albasani.net> <ij8p65$6b5$1@news.eternal-september.org>
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NNTP-Posting-Date: Mon, 14 Feb 2011 21:42:30 UTC
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Date: Mon, 14 Feb 2011 15:42:29 -0600
Xref: g2news1.google.com rec.radio.amateur.equipment:2487
rec.radio.amateur.homebrew:4129

On 02/13/2011 03:05 PM, raypsi wrote:
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>
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> as you keep adding water and have a well vented area to charge them
> in. I tried a tested and true way of not going over 14.2 volts took to
> long to get the full charge you can check it with a hydrometer and see
> that best you can get is 80% of full charge going with 14.2 volts.

That's the entire point of float charging a battery...
you do not have to add water and you do not have excess hydrogen
production...in "normal" charging...the battery voltage would rise to
approx 15volts during the last 20 minutes or so of charge

The OP specifically said he wanted to float charge
>

<snip>

From 8396660182159810072
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not-for-mail
From: "Percival P. Cassidy" <Nobody@NotMyISP.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
Date: Mon, 14 Feb 2011 18:58:49 -0500
Organization: A noiseless patient Spider

Lines: 33
Message-ID: <ijcfjr$voc$1@news.eternal-september.org>
References: <ij75sl$uq1$1@news.eternal-september.org>
<ij83sg$3ls$1@news.albasani.net> <ij8p65$6b5$1@news.eternal-september.org>
<9hX5p.32776$nZ2.22378@newsfe03.iad>
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
Injection-Date: Mon, 14 Feb 2011 23:58:51 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="ismYE5oby9ATf5GkPvYE2A";
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Thunderbird/3.1.7 ThunderBrowse/3.3.4
In-Reply-To: <9hX5p.32776$nZ2.22378@newsfe03.iad>
Cancel-Lock: sha1:hnuhTWM/EXQoyZgPIYznamm2E4o=
Xref: g2news2.google.com rec.radio.amateur.equipment:2702
rec.radio.amateur.homebrew:4427

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>>>> battery, either a pair of 6V "golf cart" batteries in series or a Group
>>>> 31.

<snip>

> You do not need anything too fancy...
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> You can test it by checking the total voltage after a 24 hour period...
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> I've been in the lead-acid battery business for 36 years...
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13.5V float setting voltage (not adjustable) might be too high for a
flooded deep-cycle battery. Their user manual refers users to

www.windsun.com/batteries/battery_FAQ.htm

which recommends per-cell float voltages flooded deep-cycle batteries
that translate to 13.02V to 13.20V for a 6-cell battery.

"Perce"

```
From -7099302581344624406
X-Google-Thread: 241b302a50,afa7d9dbce3e1082
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: "Percival P. Cassidy" <Nobody@NotMyISP.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
Date: Mon, 14 Feb 2011 19:06:20 -0500
Organization: A noiseless patient Spider
Lines: 83
Message-ID: <ijcg1u$1h6$1@news.eternal-september.org>
References: <ij75sl$uq1$1@news.eternal-september.org> <4a6227e6-aa45-4792-810c-
ee8d653ab346@y4g2000prh.googlegroups.com> <ijc3ti$std$1@news.eternal-
september.org>
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Injection-Date: Tue, 15 Feb 2011 00:06:22 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="ismYE5oby9ATf5GkPvYE2A";
     logging-data="1574"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+WC9hUh3SUnT8mKM+/y0PW"
User-Agent: Mozilla/5.0 (OS/2; U; Warp 4.5; en-US; rv:1.9.2.13) Gecko/20101209
Thunderbird/3.1.7 ThunderBrowse/3.3.4
In-Reply-To: <ijc3ti$std$1@news.eternal-september.org>
Cancel-Lock: sha1:ooJYP8KGFHeJkyj8x/XiU1RkbnY=
Xref: g2news2.google.com rec.radio.amateur.equipment:2703
rec.radio.amateur.homebrew:4428
```

Oops! I was writing from memory and got it wrong: West Mountain Radio specify cranking the P/S up to 14.1V for Gel-Cells and to 14.5V for AGM batteries -- to allow absorption-charge voltages of 13.8V and 14.2V, respectively.

And the voltage drop is 0.25V to 0.5V, depending on current.

"Perce"

On 02/14/11 03:39 pm, I wrote:

> West Mountain Radio claims that their "Super PwrGate" has a voltage drop
> of only 0.3V to 0.4V, so they can charge a Gel-Cell battery from a 13.8V
> P/S or can handle an AGM battery simply by raising the P/S voltage to
> 14.1V. Any idea what they use for a pass transistor?
>
> The "Micro M+" solar battery charger described in some recent editions
> of the ARRL Handbook uses the STP80PF55 P-Channel MOSFET
> (80 Amp, R[DSon] = 0.016 Ohm) as the control device. Could this be used

> in conjunction with the UC3906 without too much difficulty?
>
> "Perce"
>
> On 02/13/11 03:35 pm, raypsi wrote:
>
>> I used to charge a deep cycle flooded marine battery with the TI
>> UC3906
>> data sheet here: http://focus.ti.com/lit/ds/symlink/uc3906.pdf
>> all you need is a few precision pots and the low resistance resistor
>> you need to set the max charge current.
>> I had a 115AH deep cycle flooded marine battery that with a straight
>> no frills charge took 4 days to charge fully, tested by hydrometer
>> With 1 foot of 14 gauge wire for the max charge resistor and precision
>> 10 turn pots to set the other settings, and a 30 amp PNP pass
>> transistor on a fan cooled heat sink I was able to charge that battery
>> in 8 hours full charge, then it goes to a maintain charge, not a
>> trickle charge.
>>
>> Basically I was charging at 23 amps after the UC3906 checked that no
>> cells were bad, then once it gets to a predetermined voltage it scales
>> back the charge, all the levels for this are set by multiple precision
>> pots and you can take it thru 4 levels of charge. I had the max
>> setting for 15.5 volts when the battery was fully charged to roll back
>> to maintain charge.
>>
>> You will need a unregulated 18 volt supply, because the PNP drops 4
>> volts in VSAT. and once it gets the battery up there in voltage, the
>> PNP doesn't need to be full on in VSAT
>>
>> After using auto chargers and straight charges I found the UC3906 the
>> best choice over all.
>>
>> There is a switch mode TI chip also but you don't want that one
>>
>>
>> Mouser stocks these last time I bought them it was like $4 each.
>>
>>
>>
>>
>> On Feb 12, 6:42 pm, "Percival P. Cassidy"<Nob...@NotMyISP.com> wrote:
>>> I'm looking for charger/maintainer -- either an off-the-shelf unit or a
>>> schematic so I can build my own -- suitable for a flooded deep-cycle
>>> battery, either a pair of 6V "golf cart" batteries in series or a
>>> Group 31.
>>>
>>> I don't want an RFI generator: I already have one.
>>>
>>> I already have a few 13.8V 25A power supplies, one of which I would be
>>> quite willing to "crank up" to a higher voltage to compensate for the
>>> voltage drop in the control circuitry.
>>>

```
>>> Something like the West Mountain Radio "Super PwrGate" (PG40S) would
>>> work, although the automatic switch-over feature is not essential. That
>>> device is intended for Gel-Cell and AGM batteries and not recommended
>>> for flooded batteries -- absorption-charge voltage too low and
>>> float-charge voltage too high, their tech support people tell me.
>>>
>>> "Perce"
>>
>



From 7204440244939828865
X-Google-Thread: 108122,afa7d9dbce3e1082
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news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe21.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.13) Gecko/20101208
Thunderbird/3.1.7
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
References: <ij75sl$uq1$1@news.eternal-september.org>
<ij83sg$3ls$1@news.albasani.net> <ij8p65$6b5$1@news.eternal-september.org>
<9hX5p.32776$nZ2.22378@newsfe03.iad> <ijcfjr$voc$1@news.eternal-september.org>
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Lines: 68
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NNTP-Posting-Date: Tue, 15 Feb 2011 01:29:40 UTC
Organization: TeraNews.com
Date: Mon, 14 Feb 2011 19:29:39 -0600
Xref: g2news1.google.com rec.radio.amateur.equipment:2490
rec.radio.amateur.homebrew:4132

On 02/14/2011 05:58 PM, Percival P. Cassidy wrote:
> On 02/13/11 03:36 pm, philo wrote:
>
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>>>>> 31.
>
```

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>
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>> You can test it by checking the total voltage after a 24 hour period...
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> that translate to 13.02V to 13.20V for a 6-cell battery.
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That link did not work...but really, the exact float voltage is not that critical...the free gassing point of a lead acid battery is 2.37 volts /cell or 14.2 v for a 6 cell battery...

to float the battery you must stay reasonably below the gassing point or there will be considerable water consumption...hydrogen and oxygen production and heating.

OTOH: the nominal open circuit voltage of a fully charged lead acid battery is 2.12 volts / cell or 12.7v for a 6 cell battery....

so anywhere from 13.1 - 13.8 volts would work for "floating".

Back in the old days when I started in the industry,
the settings on the chargers could drift a bit...so we'd try to keep everything in the middle of the accepted range or about 13.5 volts

If the battery is going to be on float for an extended period of time... though the water consumption is minimal...it still needs to be checked periodically and topped off as needed (never fill a battery up into the "neck" area...the water level should be a bit below it)

Finally...a few times a year the battery should be equalize charged to
avoid the possibility of sulfation. Usually 6 hours will suffice.
The battery should be brought up to 14.2 volts and allowed to rise to
approx 15 volts depending on the type of charger

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X-Google-Language: ENGLISH,ASCII-7-bit
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mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT RARE HOT VIDEOS
Date: Mon, 14 Feb 2011 17:46:21 -0800 (PST)
Organization: http://groups.google.com
Lines: 23
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NNTP-Posting-Date: Tue, 15 Feb 2011 01:46:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o39g2000prb.googlegroups.com; posting-host=117.199.243.131;
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Xref: g2news2.google.com rec.radio.amateur.homebrew:4430
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ALL HOT PHOTOS SUPER SeXY PHOTOS
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-135.html

HOT VIDEOS

http://hotvideotoou.blogspot.com/2011/01/kiss-videos.html

hot lip kiss
http://hotvidos.blogspot.com/2010/07/hot-lip-kiss.html
hot kisses
http://hotvidos.blogspot.com/2010/07/hot-kisses.html
hollywood hot videos

http://hotvidos.blogspot.com/2010/07/hollywood-hot-videos.html
real hot videos
http://hotvidos.blogspot.com/2010/07/real-hot-videos.html
tamil hot videos
http://hotvidos.blogspot.com/2010/07/tamil-hot-videos.html

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X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: "Percival P. Cassidy" <Nobody@NotMyISP.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
Date: Mon, 14 Feb 2011 23:08:10 -0500
Organization: A noiseless patient Spider
Lines: 76
Message-ID: <ijcu7c$7jg$1@news.eternal-september.org>
References: <ij75sl$uq1$1@news.eternal-september.org>
<ij83sg$3ls$1@news.albasani.net> <ij8p65$6b5$1@news.eternal-september.org>
<9hX5p.32776$nZ2.22378@newsfe03.iad> <ijcfjr$voc$1@news.eternal-september.org>
<8Gk6p.7178$7P3.6033@newsfe21.iad>
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Thunderbird/3.1.7 ThunderBrowse/3.3.4
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Xref: g2news1.google.com rec.radio.amateur.equipment:2491
rec.radio.amateur.homebrew:4134
```

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"Perce"

From -1441019085086874214
X-Google-Thread: 108122,afa7d9dbce3e1082
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,afa7d9dbce3e1082
X-Google-NewGroupId: yes
X-Google-Attributes: gidd7f5508063,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe10.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.13) Gecko/20101208 Thunderbird/3.1.7
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
References: <ij75sl$uq1$1@news.eternal-september.org>
<ij83sg$3ls$1@news.albasani.net> <ij8p65$6b5$1@news.eternal-september.org>
<9hX5p.32776$nZ2.22378@newsfe03.iad> <ijcfjr$voc$1@news.eternal-september.org>
<8Gk6p.7178$7P3.6033@newsfe21.iad> <ijcu7c$7jg$1@news.eternal-september.org>
In-Reply-To: <ijcu7c$7jg$1@news.eternal-september.org>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 57
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X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Tue, 15 Feb 2011 21:05:05 UTC
Organization: TeraNews.com
Date: Tue, 15 Feb 2011 15:05:03 -0600
Xref: g2news2.google.com rec.radio.amateur.equipment:2706 rec.radio.amateur.homebrew:4432

On 02/14/2011 10:08 PM, Percival P. Cassidy wrote:
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>>>>>>> battery, either a pair of 6V "golf cart" batteries in series or a
>>>>>>> Group
>>>>>>> 31.

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>
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> controller to make use of one of the power supplies I own already as the
> power source.
>
> "Perce"

I'd give one of your power supplies a try and see if it gives you an
acceptable float voltage...

If not, then one of the commercial ones would probably be a lot easier
than trying to build one yourself

From -1252315601543457086
X-Google-Thread: 241b302a50,3e4de1bfb18d3ba1,start
X-Google-Attributes: gid241b302a50,public,usenet

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X-Google-Language: ENGLISH,ASCII-7-bit
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mail
From: Saima Noor <saima.shah111@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Welcome to PhoToZfAiR
Date: Tue, 15 Feb 2011 22:12:22 -0800 (PST)
Organization: http://groups.google.com
Lines: 7
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NNTP-Posting-Date: Wed, 16 Feb 2011 06:12:22 +0000 (UTC)
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Xref: g2news1.google.com rec.radio.amateur.homebrew:4136

http://www.photozfair.com
http://www.photozfair.com
http://www.photozfair.com
free classified sites, Art/Paintings, Amazing, Celebrties, Pakistani
Celebrties, Indian Celebrities, Cars, Funny, Islamic, Motorbike,
Natural, World Hotels, Forex Trading, Web Hosting, Computer,  Fantasy,
Flowers, Food, Games, Love, Sports,



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X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o39g2000prb.googlegroups.com!not-for-
mail
From: fitz <zeusrdx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Fitz's "phase coherence" FACT was at the Top Spot in Google for FOUR
 Months, beginning September 23, 2010.
Date: Wed, 16 Feb 2011 06:11:14 -0800 (PST)
Organization: http://groups.google.com
Lines: 12
Message-ID: <7938a5ce-0eba-4167-b0ae-11476a2b4a5d@o39g2000prb.googlegroups.com>
NNTP-Posting-Host: 64.53.76.95
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1297865474 9142 127.0.0.1 (16 Feb 2011 14:11:14 GMT)
```

X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 16 Feb 2011 14:11:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o39g2000prb.googlegroups.com; posting-host=64.53.76.95; posting-account=A451vgoAAABycJv5ugpkfX8QG96-xuRZ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0;
 Trident/4.0; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
 3.0.30618; yie8),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4137

Fitz's "phase coherence" FACT was at the Top Spot in Google for FOUR
Months, beginning September 23, 2010.

(Click link below.)

http://www.amperefitz.com/phase.coherence.htm

http://www.amperefitz.com/top.spot.htm

All the invisible ATTRACTING forces are nothing but Phase Coherence?

From 8578793078098677714
X-Google-Thread: 108122,afa7d9dbce3e1082
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,afa7d9dbce3e1082
X-Google-NewGroupId: yes
X-Google-Attributes: gidd7f5508063,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o7g2000prn.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
Date: Wed, 16 Feb 2011 07:15:45 -0800 (PST)
Organization: http://groups.google.com
Lines: 23
Message-ID: <27844292-48a7-4085-8ed7-2b962f549a98@o7g2000prn.googlegroups.com>
References: <ij75sl$uq1$1@news.eternal-september.org>
<ij83sg$3ls$1@news.albasani.net>
 <ij8p65$6b5$1@news.eternal-september.org> <9hX5p.32776$nZ2.22378@newsfe03.iad>
 <ijcfjr$voc$1@news.eternal-september.org> <8Gk6p.7178$7P3.6033@newsfe21.iad>
 <ijcu7c$7jg$1@news.eternal-september.org> <5UB6p.22320$y_7.9063@newsfe10.iad>
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1297869609 16914 127.0.0.1 (16 Feb 2011 15:20:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 16 Feb 2011 15:20:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com

Injection-Info: o7g2000prn.googlegroups.com; posting-host=99.65.160.151; posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1;
 Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
 3.0.30729; MAAU; .NET4.0C; InfoPath.3; MAAU),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:2707
rec.radio.amateur.homebrew:4435

> If not, then one of the commercial ones would probably be a lot easier
> than trying to build one yourself-

Hey ole timer:

First and formost this is a homebrew group.
To suggest to not build and to buy a commercial of the shelf reay to
use product, is like those sex ads that get posted here, they both
have nothing to do with homebrew.

Lastly I built a flooded lead acid charger. I only bought one part the
IC UC3906, I already had a solderless breadboard, the resistors and
capacitors in my junk drawer
The hardest part was figuring the resistor values and how to make
those values, and that was easy.
The heatsink fan came from an old CPU fan heatsink, and I mounted the
pass transistor to that heatsink fan.
I think that the UC3906 was the best think since sliced bread

73 ole timer
de n8zu

From -2763708773177553342
X-Google-Thread: 108122,afa7d9dbce3e1082
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,afa7d9dbce3e1082
X-Google-NewGroupId: yes
X-Google-Attributes: gidd7f5508063,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe09.iad.POSTED!af80dcec!not-for-mail
From: Audio1 <Audio1@where.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.8) Gecko/20100227 Thunderbird/3.0.3
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
References: <ij75sl$uq1$1@news.eternal-september.org>
<ij83sg$3ls$1@news.albasani.net> <ij8p65$6b5$1@news.eternal-september.org>
<9hX5p.32776$nZ2.22378@newsfe03.iad> <ijcfjr$voc$1@news.eternal-september.org>

```
<8Gk6p.7178$7P3.6033@newsfe21.iad> <ijcu7c$7jg$1@news.eternal-september.org>
<5UB6p.22320$y_7.9063@newsfe10.iad>
<27844292-48a7-4085-8ed7-2b962f549a98@o7g2000prn.googlegroups.com>
In-Reply-To: <27844292-48a7-4085-8ed7-2b962f549a98@o7g2000prn.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 19
Message-ID: <50T6p.62862$Gq3.22299@newsfe09.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Wed, 16 Feb 2011 16:34:09 UTC
Organization: TeraNews.com
Date: Wed, 16 Feb 2011 11:34:08 -0500
Xref: g2news1.google.com rec.radio.amateur.equipment:2494
rec.radio.amateur.homebrew:4139

On 2/16/2011 10:15 AM, raypsi wrote:
>
>> If not, then one of the commercial ones would probably be a lot easier
>> than trying to build one yourself-
>
> Hey ole timer:
>
>
> First and formost this is a homebrew group.

So stop cross-posting to rec.radio.amateur.equipment

That's EQUIPMENT.  Commercially built as well as home brew.

I ignore hams when it comes to battery equipment and pay attention to
people who trust their lives to their batteries,
http://www.morganscloud.com/2011/02/10/eleven-steps-to-better-battery-life/




From 4528251092150488902
X-Google-Thread: 241b302a50,afa7d9dbce3e1082
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder3.cambriumusenet.nl!
feed.tweaknews.nl!193.201.147.79.MISMATCH!hitnews.eu!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: "Percival P. Cassidy" <Nobody@NotMyISP.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
Date: Wed, 16 Feb 2011 13:00:02 -0500
Organization: A noiseless patient Spider
Lines: 25
Message-ID: <ijh3bt$3nn$1@news.eternal-september.org>
References: <ij75sl$uq1$1@news.eternal-september.org>
```

```
<ij83sg$3ls$1@news.albasani.net> <ij8p65$6b5$1@news.eternal-september.org>
<9hX5p.32776$nZ2.22378@newsfe03.iad> <ijcfjr$voc$1@news.eternal-september.org>
<8Gk6p.7178$7P3.6033@newsfe21.iad> <ijcu7c$7jg$1@news.eternal-september.org>
<5UB6p.22320$y_7.9063@newsfe10.iad>
<27844292-48a7-4085-8ed7-2b962f549a98@o7g2000prn.googlegroups.com>
<50T6p.62862$Gq3.22299@newsfe09.iad>
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
Injection-Date: Wed, 16 Feb 2011 18:00:29 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="ismYE5oby9ATf5GkPvYE2A";
     logging-data="3831"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18Jn1tJv9YDdSRpZ1/D6Jac"
User-Agent: Mozilla/5.0 (OS/2; U; Warp 4.5; en-US; rv:1.9.2.13) Gecko/20101209
Thunderbird/3.1.7 ThunderBrowse/3.3.4
In-Reply-To: <50T6p.62862$Gq3.22299@newsfe09.iad>
Cancel-Lock: sha1:3GIUpy7snkFARoqVS7DuGI1lo9k=
Xref: g2news2.google.com rec.radio.amateur.equipment:2709
rec.radio.amateur.homebrew:4437

On 02/16/11 11:34 am, Audio1 wrote:

>>> If not, then one of the commercial ones would probably be a lot easier
>>> than trying to build one yourself-
>>
>> Hey ole timer:
>>
>>
>> First and formost this is a homebrew group.
>
> So stop cross-posting to rec.radio.amateur.equipment
>
> That's EQUIPMENT. Commercially built as well as home brew.

I guess it's my (the OP) fault: I cross-posted my original question --
asking about off-the-shelf or homebrew solutions -- to both
r.r.a.equipment and r.r.a.homebrew, and all the responses have gone to both.

> I ignore hams when it comes to battery equipment and pay attention to
> people who trust their lives to their batteries,
> http://www.morganscloud.com/2011/02/10/eleven-steps-to-better-battery-life/

I'll check that out.

"Perce"


From 2350160347555899861
X-Google-Thread: 108122,afa7d9dbce3e1082
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,afa7d9dbce3e1082
X-Google-NewGroupId: yes
X-Google-Attributes: gidd7f5508063,gid241b302a50,domainid0,public,usenet
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!192.87.166.28.MISMATCH!tudelft.nl!txtfeed1.tudelft.nl!de-
l.enfer-du-nord.net!feeder1.enfer-du-nord.net!eternal-september.org!
feeder.eternal-september.org!.POSTED!not-for-mail
From: "Percival P. Cassidy" <Nobody@NotMyISP.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
Date: Wed, 16 Feb 2011 15:20:09 -0500
Organization: A noiseless patient Spider
Lines: 28
Message-ID: <ijhbhr$rv4$1@news.eternal-september.org>
References: <ij75sl$uq1$1@news.eternal-september.org>
<ij83sg$3ls$1@news.albasani.net> <ij8p65$6b5$1@news.eternal-september.org>
<9hX5p.32776$nZ2.22378@newsfe03.iad> <ijcfjr$voc$1@news.eternal-september.org>
<8Gk6p.7178$7P3.6033@newsfe21.iad> <ijcu7c$7jg$1@news.eternal-september.org>
<5UB6p.22320$y_7.9063@newsfe10.iad>
<27844292-48a7-4085-8ed7-2b962f549a98@o7g2000prn.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Wed, 16 Feb 2011 20:20:11 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="ismYE5oby9ATf5GkPvYE2A";
	logging-data="28644"; mail-complaints-to="abuse@eternal-september.org";
	posting-account="U2FsdGVkX19kcMUoQYkOJgtNNQEguBA1"
User-Agent: Mozilla/5.0 (OS/2; U; Warp 4.5; en-US; rv:1.9.2.13) Gecko/20101209
Thunderbird/3.1.7 ThunderBrowse/3.3.4
In-Reply-To: <27844292-48a7-4085-8ed7-2b962f549a98@o7g2000prn.googlegroups.com>
Cancel-Lock: sha1:3in0t3oO7mR6vIwTwpJtqYGNS+I=
Xref: g2news1.google.com rec.radio.amateur.equipment:2496
rec.radio.amateur.homebrew:4141
```

On 02/16/11 10:15 am, raypsi wrote:

<snip>

> ... I built a flooded lead acid charger. I only bought one part the
> IC UC3906, I already had a solderless breadboard, the resistors and
> capacitors in my junk drawer
> The hardest part was figuring the resistor values and how to make
> those values, and that was easy.
> The heatsink fan came from an old CPU fan heatsink, and I mounted the
> pass transistor to that heatsink fan.
> I think that the UC3906 was the best think since sliced bread

I've seen schematics and board layouts for SLA chargers based on the UC3906. VK3EM's uses SMT components, while N5BIA's uses discrete components -- but both are only for charging currents of 2A or so.

For what current did you build yours? If high-current, what pass transistor(s) did you use?

N5BIA offers a kit, and I was wondering whether this could be beefed up

```
to handle 25A by adding 12ga wire to all the charging-current traces and
substituting higher-current pass transistor(s). I'd have to recalculate
the resistor values to suit a flooded battery, of course. And what about
using a P-channel MOSFET device, such as the STP80PF55 that the "Micro
M+" uses?

"Perce"



From 2949911843492943651
X-Google-Thread: fc2a5,afa7d9dbce3e1082
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe11.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.13) Gecko/20101208
Thunderbird/3.1.7
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger/maintainer for flooded deep-cycle batteries?
References: <ij75sl$uq1$1@news.eternal-september.org>
<ij83sg$3ls$1@news.albasani.net> <ij8p65$6b5$1@news.eternal-september.org>
<9hX5p.32776$nZ2.22378@newsfe03.iad> <ijcfjr$voc$1@news.eternal-september.org>
<8Gk6p.7178$7P3.6033@newsfe21.iad> <ijcu7c$7jg$1@news.eternal-september.org>
<5UB6p.22320$y_7.9063@newsfe10.iad>
<27844292-48a7-4085-8ed7-2b962f549a98@o7g2000prn.googlegroups.com>
<50T6p.62862$Gq3.22299@newsfe09.iad> <ijh3bt$3nn$1@news.eternal-september.org>
In-Reply-To: <ijh3bt$3nn$1@news.eternal-september.org>
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Content-Transfer-Encoding: 7bit
Lines: 29
Message-ID: <pmW6p.26722$4L4.12874@newsfe11.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Wed, 16 Feb 2011 20:22:45 UTC
Organization: TeraNews.com
Date: Wed, 16 Feb 2011 14:22:44 -0600
Xref: g2news1.google.com rec.radio.amateur.homebrew:4142

On 02/16/2011 12:00 PM, Percival P. Cassidy wrote:
> On 02/16/11 11:34 am, Audio1 wrote:
> d r.r.a.homebrew, and all the responses have gone to
> both.
>



<snip>
>> I ignore hams when it comes to battery equipment and pay attention to
>> people who trust their lives to their batteries,
>> http://www.morganscloud.com/2011/02/10/eleven-steps-to-better-battery-life/
>>
```

>
> I'll check that out.
>
> "Perce"

You can take my advice or leave it...
that's up to you.

I'm a senior service engineer who's been in the (lead acid) battery business for 36 years.

I assure you that "float charging" a battery is not rocket science and you do not have to get too fancy

(but if you want to, that's fine)

From 440677522972588163
X-Google-Thread: 241b302a50,e1c98f03fb6125c
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!u19g2000prk.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SM0VPO - Harry's Homebrew Homepages
Date: Fri, 5 Nov 2010 08:29:44 -0700 (PDT)
Organization: http://groups.google.com
Lines: 43
Message-ID: <a45177a7-e07c-4cc8-93ad-638fd853fcea@u19g2000prk.googlegroups.com>
References: <i8s06u$m4i$1@speranza.aioe.org> <i8t00b$7s2$1@speranza.aioe.org>
NNTP-Posting-Host: 99.89.77.137
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1288970985 27984 127.0.0.1 (5 Nov 2010 15:29:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 5 Nov 2010 15:29:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u19g2000prk.googlegroups.com; posting-host=99.89.77.137; posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.12) Gecko/20101027 Ubuntu/10.04 (lucid) Firefox/3.6.12,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4204

On Oct 10, 2:17=A0pm, "Hairy Lethal" <oei...@hotmail.com> wrote:
> Also, just upgraded my router (to one that doesn'r lock up). Have changed
> the URL forwarding, but it takes a while B4 it percolates through the
> system. The direct URLs are:http://81.227.203.235/

```
> andhttp://81.227.203.235:800/
>
> 73 de Harry
>
> >I had a bitof bad news from my ISP last Christmas. They were not happy w=
ith
> >SEK 140 per year. So they closed down my homepages and offered me the Te=
lia
Hey OT:

I looked up www.sm0vpo.com/  your ip addy, and it's 81.227.194.25, and
bam your web page pops up.

Although lookup was able to find your ip addy, my browser isn't able
to get to 81.227.203.235

73 OT
de n8zu




> >WebHotel at SEK 3600 per year.
>
> > I am hosting the homepages myself, but i have now got my own domain, so=
 I
> > can move the pages anywhere I want.
>
> > The URL is nowwww.sm0vpo.com/
>
> > There is a standby on my other computer atwww.sm0vpo.com:800/
>
> > So if you wonder where my homepages went, there is the answer. They hav=
e
> > been online all the time, but without Usernet access I could not tell
> > anyone.
>
> > BR Harry - SM0VPO



From 8724996981858452170
X-Google-Thread: fc2a5,23dccd22b94330e6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!k14g2000pre.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3-1000Z
Date: Fri, 5 Nov 2010 11:15:06 -0700 (PDT)
Organization: http://groups.google.com
```

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Lines: 9
Message-ID: <82efed7b-9022-494f-90e3-9b477a21feda@k14g2000pre.googlegroups.com>
References: <9ln1d6t9c4ehqaj5fo1tnc4p53c6f6og4o@4ax.com>
NNTP-Posting-Host: 99.89.77.137
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1288980907 21989 127.0.0.1 (5 Nov 2010 18:15:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 5 Nov 2010 18:15:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k14g2000pre.googlegroups.com; posting-host=99.89.77.137; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.12)
 Gecko/20101027 Ubuntu/10.04 (lucid) Firefox/3.6.12,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4205

On Nov 3, 12:02=A0am, justme <jble...@gmail.com> wrote:
> ?

hey OT

They make good speaders for ladder line  the best.

73 OT
de n8zu


From 4093589013822465803
X-Google-Thread: fc2a5,d9d75eaccb0bab11,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a4g2000prm.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT WET MASALA VIDEOS
Date: Sat, 6 Nov 2010 23:18:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 52
Message-ID: <59db7b7a-75b7-46e1-9362-a84fd1addbfd@a4g2000prm.googlegroups.com>
NNTP-Posting-Host: 117.199.251.160
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1289110689 2065 127.0.0.1 (7 Nov 2010 06:18:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 7 Nov 2010 06:18:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a4g2000prm.googlegroups.com; posting-host=117.199.251.160;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
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X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.12) Gecko/20101026 Firefox/3.6.12,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4206

hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

hot photos
http://photostou.blogspot.com/2010/09/bollywood-actress-photos-4.html

From 789064797634035150
X-Google-Thread: a4a23d5f63,3cd6f9021a931733,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!transit3.readnews.com!news-out.readnews.com!
transit4.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1286431501@panix.com>
Followup-To: poster
Date: 7 Nov 2010 02:05:01 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 10 Dec 2010 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1289113501@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1289113504 9826 166.84.1.2 (7 Nov 2010 07:05:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 7 Nov 2010 07:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news2.google.com rec.radio.amateur.antenna:21073 rec.radio.amateur.dx:817
rec.radio.amateur.equipment:2519 rec.radio.amateur.homebrew:4207
rec.radio.amateur.misc:5794 rec.radio.amateur.policy:31932 rec.radio.info:1941

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

```
One significant omission, requiring immediate updates, for this article       |
is that it does not mention newer amateur radio newsgroups created since      |
it was written, including:                                                    |

 rec.radio.amateur.antenna                                                    |
 rec.radio.amateur.boatanchors                                                |
 rec.radio.amateur.dx                                                         |
 rec.radio.amateur.equipment                                                  |
 rec.radio.amateur.homebrew                                                   |
 rec.radio.amateur.moderated                                                  |
 rec.radio.amateur.space                                                      |
```

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

```
From 825194779512335046
X-Google-Thread: 241b302a50,165930eeb2b03a61,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!goblin3!gin-ad1-unet1.teleglobe.net!
goblin1!goblin.stu.neva.ru!border1.nntp.ams2.giganews.com!
border3.nntp.ams.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!
local2.nntp.ams.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 09 Nov 2010 05:10:19 -0600
From: ashwanthh <ashwanthh.71ee238@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
```

Subject: Vswr Meter
Date: Tue, 9 Nov 2010 07:58:41 +0000
Message-ID: <ashwanthh.71ee238@radiobanter.com>
Organization: RadioBanter.com
Lines: 18
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
DyN9EUI4ahhmvxilH56vHBrUX2Srmh81A9D5ltOLvKMiJUKe1wq72+Qse6DwUTb3+I2dD8erkySm688!
2Ag07KPublbTESDWZ98dTkzFUn9MBABi0+PSFPqWv86KiMcG4bJLA9J5JnJOJwqELioxXfnSRdU4!
rV0XzNs4
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 8
X-Original-Bytes: 1383
Xref: g2news2.google.com rec.radio.amateur.homebrew:4209

Hi all,

For my RF project, I want to measure vswr readings, in order to
that I was planning to construct a VSWR meter. The concept of VSWR is to
calculate the ratio of Voltage transmitted to the Voltage reflected. So
my basic question is,

1. What sensor/instrument is used to measure the voltages from the coax
cable(in my case)?

Please some one help me with some ideas

--
ashwanthh

From 771853618091801604
X-Google-Thread: 241b302a50,165930eeb2b03a61
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!
news2.glorb.com!feeder.erje.net!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: david <none@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Vswr Meter
Date: Tue, 9 Nov 2010 11:55:13 +0000 (UTC)

```
Organization: A noiseless patient Spider
Lines: 17
Message-ID: <ibbcr1$9pg$1@news.eternal-september.org>
References: <ashwanthh.71ee238@radiobanter.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Injection-Date: Tue, 9 Nov 2010 11:55:13 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="j6YNSx4ZzkGtILp30gi9hg";
     logging-data="10032"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19FVY/kA4MF5tov2ZwOSmku"
Cancel-Lock: sha1:p5Hf0jBVD533ZkPrCpOYuJY0sss=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4210

On Tue, 09 Nov 2010 07:58:41 +0000, ashwanthh rearranged some electrons to
say:

> Hi all,
>
>
> For my RF project, I want to measure vswr readings, in order to that I
> was planning to construct a VSWR meter. The concept of VSWR is to
> calculate the ratio of Voltage transmitted to the Voltage reflected. So
> my basic question is,
>
> 1. What sensor/instrument is used to measure the voltages from the coax
> cable(in my case)?
>
> Please some one help me with some ideas

Google is over there --->


From -3687318458336557199
X-Google-Thread: fc2a5,76e160d2083b039,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: FRENCH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!bloom-beacon.mit.edu!npeer.de.kpn-eurorings.net!npeer-ng0.de.kpn-
eurorings.net!feeder.news-service.com!feed.xsnews.nl!border-2.ams.xsnews.nl!
multikabel.net!newsfeed20.multikabel.net!border3.nntp.ams.giganews.com!
Xl.tags.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!
local2.nntp.ams.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 09 Nov 2010 11:10:07 -0600
From: Tyretivoqi <Tyretivoqi.71f3698@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: &#1096;&#1072;&#1088;&#1080;&#1082;&#1080;
&#1080;&#1075;&#1088;&#1072;&#1090;&#1100;
Date: Tue, 9 Nov 2010 16:26:47 +0000
Message-ID: <Tyretivoqi.71f3698@radiobanter.com>
Organization: RadioBanter.com
```

References: <Tyretivoqi.719f098@radiobanter.com>
Lines: 157
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Fl2dangiU+T8kl/tqLS70QK5SREQG09ePOofnx9tacc0knYioGIBa+F3KG5w0qw8jfXaSmbY8c3nNYf!Q6NLX7QGht5mzdqoZAX1AVDOnfq58fWWWn//eY3hSPeumWLbpPiOHEJTNI5W7YTgrfaY69UlRuzV!xNarGjOQyQ==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Lines: 1
X-Original-Bytes: 11116
Xref: g2news1.google.com rec.radio.amateur.homebrew:3915

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(http://palmerjasper.t35.com/tuning-igrat-onlayn.html)
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(http://hammettcullen.t35.com/hentay-anime-igry-onlayn.html)
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(http://macaulayraja.t35.com/top-brauzernyh-igr.html)
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(http://adriannathaniel.t35.com/onlayn-igry-dlya-molodye-gotovit.html)
'Pc online games ' (http://stuartakeem.t35.com/pc-online-games.html)
'&#1041;&#1088;&#1072;&#1091;&#1079;&#1077;&#1088;&#1085;&#1072;&#1103;
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(http://poperlo.com/seven/doc_32.html)
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' (http://kruto.poperlo.com/site-146.html)
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(http://macaulayraja.t35.com/skripty-onlayn-igr.html)
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(http://benedictfelix.t35.com/karta.html)
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http://hammettcullen.t35.com/gta-4-igrat-onlayn-besplatno.html 'Gta 4
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(http://hammettcullen.t35.com/gta-4-igrat-onlayn-besplatno.html)
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(http://brandennigel.t35.com/artmoney-dlya-onlayn-igr.html)
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' (http://kruto.poperlo.com/site-313.html) 'Www free online games ru '
(http://jackcruz.t35.com/www-free-online-games-ru.html) 'Naruto online
game ' (http://poperlo.com/two/naruto-online-game.html)
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#1057;&#1027;&#1056;&#1108;&#1056;&#176;&#1057;&#1026;
&#1056;&#1109;&#1056;&#1029;&#1056;&#187;&#1056;&#176;&#1056;&#8470;&#1056;&#1029;
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--
Tyretivoqi



From -5431590419474821557
X-Google-Thread: fc2a5,165930eeb2b03a61
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!
feeder1.news.elisa.fi!uutiset.elisa.fi!7564ea0f!not-for-mail
From: KBa <kba@nic.fi>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.2.12) Gecko/
20101027 Thunderbird/3.1.6
```

MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Vswr Meter
References: <ashwanthh.71ee238@radiobanter.com>
In-Reply-To: <ashwanthh.71ee238@radiobanter.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 18
Message-ID: <yUrCo.18046$7N7.1709@uutiset.elisa.fi>
Date: Wed, 10 Nov 2010 09:32:47 +0200
NNTP-Posting-Host: 85.77.219.37
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1289374366 85.77.219.37 (Wed, 10 Nov 2010 09:32:46 EET)
NNTP-Posting-Date: Wed, 10 Nov 2010 09:32:46 EET
Organization: Elisa Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:4213

On 9.11.2010 9:58, ashwanthh wrote:
> Hi all,
>
>
> For my RF project, I want to measure vswr readings, in order to
> that I was planning to construct a VSWR meter.
>
> 1. What sensor/instrument is used to measure the voltages from the coax
> cable(in my case)?

There are several means depending on frequency used, transmission lines,
sampling transformers and other like resistive bridges.
One useful source could be to look at N2PK web page, he has done
measurements for HF range bridge.

gl kba

From -3702051879296745005
X-Google-Thread: 241b302a50,165930eeb2b03a61
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!p20g2000prf.googlegroups.com!not-for-mail
From: Andrew VK3BFA <VK3BFA@wia.org.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Vswr Meter
Date: Fri, 12 Nov 2010 06:15:05 -0800 (PST)
Organization: http://groups.google.com
Lines: 21
Message-ID: <7c7433ed-5b71-4959-a5ac-c8ef1ffa36cf@p20g2000prf.googlegroups.com>
References: <ashwanthh.71ee238@radiobanter.com>
NNTP-Posting-Host: 218.215.137.13

Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1289571305 17491 127.0.0.1 (12 Nov 2010 14:15:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 12 Nov 2010 14:15:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p20g2000prf.googlegroups.com; posting-host=218.215.137.13;
posting-account=Cc0OKgoAAAByqbOIrSIn11gD8DGRk_7t
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.2.12)
 Gecko/20101026 Firefox/3.6.12,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4215

On Nov 9, 6:58=A0pm, ashwanthh <ashwanthh.71ee...@radiobanter.com>
wrote:
> Hi all,
>
> For my RF project, I want to measure vswr readings, in order to
> that I was planning to construct a VSWR meter. The concept of VSWR is to
> calculate the ratio of Voltage transmitted to the Voltage reflected. So
> my basic question is,
>
> 1. What sensor/instrument is used to measure the voltages from the coax
> cable(in my case)?
>
> Please some one help me with some ideas
>
> --
> ashwanthh

Dont know where you are, but get yourself a copy of the ARRL handbook
- doesnt matter the age - and all will be explained....

Andrew VK3BFA

From 7655195119999162479
X-Google-Thread: 241b302a50,165930eeb2b03a61
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!z17g2000prz.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Vswr Meter
Date: Fri, 12 Nov 2010 09:47:14 -0800 (PST)
Organization: http://groups.google.com
Lines: 35
Message-ID: <bf50cff1-83a0-4b9a-9e35-547d3b33c2c5@z17g2000prz.googlegroups.com>
References: <ashwanthh.71ee238@radiobanter.com>
NNTP-Posting-Host: 99.181.124.94

Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 12 Nov 2010 17:47:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z17g2000prz.googlegroups.com; posting-host=99.181.124.94; posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.12) Gecko/20101027 Ubuntu/10.04 (lucid) Firefox/3.6.12,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4216

Hey OT
:

Most so called VSWR meters will give you a reading but is it a true reading? Not likely, by the time the reflected wave comes back down the cable it has lost some voltage because of cable losses.

A true method would be to measure the voltage at the antenna, telemeterize the voltage reading and send it back to the VSWR meter to compare to the output voltage of the tx. And use a dual cross meter so the ratio is calculated by the meter scale with no adjustment needed. Except to calibrate it just once.

73 OT,
de n8zu

On Nov 9, 3:58=A0am, ashwanthh <ashwanthh.71ee...@radiobanter.com>
wrote:> Hi all,
>
> For my RF project, I want to measure vswr readings, in order to that I was planning to construct a VSWR meter. The concept of VSWR is to calculate the ratio of Voltage transmitted to the Voltage reflected. So my basic question is,
>
> 1. What sensor/instrument is used to measure the voltages from the coax cable(in my case)?
>
> Please some one help me with some ideas
>
> --
> ashwanthh

From -8628554692489982582
X-Google-Thread: fc2a5,a190e25302fbce9f,start

```
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!42g2000prt.googlegroups.com!not-for-
mail
From: ali kaseri <using4bidvertiser@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SEX Videos of CAMERION DIAZ
Date: Sat, 13 Nov 2010 01:20:03 -0800 (PST)
Organization: http://groups.google.com
Lines: 3
Message-ID: <76361e28-3b90-4a53-827a-80ffef4750fe@42g2000prt.googlegroups.com>
NNTP-Posting-Host: 72.9.104.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1289640003 18452 127.0.0.1 (13 Nov 2010 09:20:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 13 Nov 2010 09:20:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 42g2000prt.googlegroups.com; posting-host=72.9.104.12; posting-
account=VncUBAoAAACCeeM7cjkeyYAQCUqOJ_bj
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.12)
 Gecko/20101026 Firefox/3.6.12,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4217

I Have Hidden the Videos in an IMAGE...... CLICK on the IMAGE which is
BELOW the SEARCH BOX which is on the RIGHT SIDE of the website
http://www.girlsactress4u.euro.st


From -1600704173434626809
X-Google-Thread: fc2a5,165930eeb2b03a61
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!weretis.net!
feeder4.news.weretis.net!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: highlandham <highlandham_nospam@rfburns.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Vswr Meter
Date: Sat, 13 Nov 2010 11:53:22 +0000
Organization: A noiseless patient Spider
Lines: 33
Message-ID: <iblu7k$718$1@news.eternal-september.org>
References: <ashwanthh.71ee238@radiobanter.com>
<bf50cff1-83a0-4b9a-9e35-547d3b33c2c5@z17g2000prz.googlegroups.com>
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 13 Nov 2010 11:53:24 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="67hbOD6W8EUYMb73wR5qNg";
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     posting-account="U2FsdGVkX19AzG6X6dUyr0OFHuxWBIjYGkfSABOuYWw="
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.1.14) Gecko/20101006
Thunderbird/3.0.9
In-Reply-To: <bf50cff1-83a0-4b9a-9e35-547d3b33c2c5@z17g2000prz.googlegroups.com>
Cancel-Lock: sha1:qXY4Y816eVm5ZYojznuNK1KOKhc=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3921

On 12/11/10 17:47, raypsi wrote:
>
> On Nov 9, 3:58 am, ashwanthh<ashwanthh.71ee...@radiobanter.com>
> wrote:>  Hi all,
>> >
>> >  For my RF project, I want to measure vswr readings, in order to
>> >  that I was planning to construct a VSWR meter. The concept of VSWR is to
>> >  calculate the ratio of Voltage transmitted to the Voltage reflected. So
>> >  my basic question is,
>> >
>> >  1. What sensor/instrument is used to measure the voltages from the coax
>> >  cable(in my case)?
>> >
>> >  Please some one help me with some ideas
>> >
>> >  --
>> >  ashwanthh
===================================
Is it really important to KNOW the actual VSWR?  I don't think so.

I use a swr meter to be able to adjust the Antenna Matching Unit (I
don't call it a tuner) for zero or minimum reflected power ,just to
'keep the transmitter happy'
If the swr meter shows a different level of reflected power at a
specific setting of the AMU for a specific frequency,using a specific
antenna ,then something is lilely wrong with the antenna or feeder.

When adjusting the AMU for minimum/zero reflected power ,for final
adjustment I set the swr meter at maximum sensitivity.

Currently I only use a 'doublet' = a wire dipole with twin lead feeder.

Frank   GM0CSZ / KN6WH


From 9008276014238977898
X-Google-Thread: fc2a5,165930eeb2b03a61
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!feeder.news-service.com!feeder1.news.elisa.fi!
uutiset.elisa.fi!7564ea0f!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
```

Subject: Re: Vswr Meter
Message-ID: <890td6taddbpfq9njo4cc45s76tfa0vo6s@4ax.com>
References: <ashwanthh.71ee238@radiobanter.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
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Content-Transfer-Encoding: 7bit
Lines: 16
Date: Sat, 13 Nov 2010 14:21:49 +0200
NNTP-Posting-Host: 85.77.223.96
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1289650910 85.77.223.96 (Sat, 13 Nov 2010 14:21:50 EET)
NNTP-Posting-Date: Sat, 13 Nov 2010 14:21:50 EET
Organization: Elisa Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:3922

On Tue, 9 Nov 2010 07:58:41 +0000, ashwanthh
<ashwanthh.71ee238@radiobanter.com> wrote:

>For my RF project, I want to measure vswr readings,

The first question is why ?

If you want to tune some HF antenna to resonance within a specific
ham band, just use a noise bridge and adjust the antenna dimensions
accordingly.

For VHF/UHF, the antenna dimensions are even more critical, i.e. the
antenna feedpoint impedance should be the same as the feedline
impedance. Due to the cable losses, any ATU at the lower end would be
completely unacceptable.

From -1272457641812675899
X-Google-Thread: fc2a5,3ad5f63ebafef351,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!35g2000prt.googlegroups.com!not-for-mail
From: tejaswini <teju9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: MESMARISING VIDEOS&HOT PHOTOS
Date: Sat, 13 Nov 2010 22:42:10 -0800 (PST)
Organization: http://groups.google.com
Lines: 28
Message-ID: <ae3d7869-fb55-4762-9a0f-340577df6953@35g2000prt.googlegroups.com>
NNTP-Posting-Host: 117.199.248.37
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1289716930 5801 127.0.0.1 (14 Nov 2010 06:42:10 GMT)
X-Complaints-To: groups-abuse@google.com

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NNTP-Posting-Date: Sun, 14 Nov 2010 06:42:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 35g2000prt.googlegroups.com; posting-host=117.199.248.37; posting-
account=6xaZwQoAAACqKFwd8FfwWgPIkcC-Icg-
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.12)
 Gecko/20101026 Firefox/3.6.12,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3923

     FOR SAVE WATER AND CHILD PROTECTION
                 http://savewaterinworld.blogspot.com


                          HOT COUPLE ROMANCE
http://babes-devi.blogspot.com/2010/11/couples-in-romance.html
                           PRANEEHA HOT PICS
http://babes-devi.blogspot.com/2010/11/praneetha-latest-pics.html
              AISHWARIYA LATEST HOT PICS
http://babes-devi.blogspot.com/2010/10/aish-latest-pics.html
                SOUTHACTRESS IN A SEXY TOWELS
http://babes-devi.blogspot.com/2010/10/south-actress-in-sexy-towels.html
                UDAYATHRA IN A BATH ROOM
http://babes-devi.blogspot.com/2010/10/udayatara-in-bath.html
                ACTRESS IN A HOT RED DRESS
http://babes-devi.blogspot.com/2010/10/actress-in-sexy-red-dress.html
                 ASIN CUTE HOT PHOTOS
http://babes-devi.blogspot.com/2010/09/asin-cute-photos.html
                SEXY CHARMI IN A BATH
http://babes-devi.blogspot.com/2010/06/charmi-in-bath.html
                FOR HOT PHOTOS&VIDEOS
http://babes-devi.blogspot.com/2010_06_01_archive.html
                 HOT SEXY BOOBS  SHOW
http://babes-devi.blogspot.com/2010/09/sexy-boobs.html
                 ASIN CUTE HOT PHOTOS
http://babes-devi.blogspot.com/2010/09/asin-cute-photos.html
             ANKHITA SPICY PHOTOS
http://babes-devi.blogspot.com/2010/08/sexy-ankhitha.html


From -3114373341984856220
X-Google-Thread: fc2a5,eb59d2c9aeb07d75,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!u11g2000prn.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT HEROINES VIDEOS
Date: Sat, 13 Nov 2010 22:52:57 -0800 (PST)
Organization: http://groups.google.com
Lines: 52
Message-ID: <4e050bef-71b2-4b74-b46e-7631093b2e1a@u11g2000prn.googlegroups.com>
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NNTP-Posting-Host: 117.199.240.175
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1289717578 19179 127.0.0.1 (14 Nov 2010 06:52:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 14 Nov 2010 06:52:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u11g2000prn.googlegroups.com; posting-host=117.199.240.175;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.12)
 Gecko/20101026 Firefox/3.6.12,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4221

 hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

                     HOT VIDEOS

massage hot videos
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hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html





      ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
```

http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

hot photos
http://photostou.blogspot.com/2010/09/bollywood-actress-photos-4.html

From 1997108978179338811
X-Google-Thread: 112d1e,81dda1a1bcba2e6b,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,81dda1a1bcba2e6b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Regarding Rp of an LC
Date: Mon, 15 Nov 2010 08:49:58 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 101115-0, 11/15/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <b33d7$4ce14803$45013905$12386@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 11
X-Trace: b33d74ce14803e0a49ca012386
Xref: g2news2.google.com sci.electronics.design:212193 rec.radio.amateur.homebrew:4222

On the webpage http://www.crystal-radio.eu/engev.htm the author diagrams a crystal radio with Rp as the losses in L1 and C1. Then he goes further and loads L1C1 with an antenna, this reduces Q by 1/2.
He then adds we can calculate the value of Rp as follows: Rp=2.pi.f.L.Q (Q Unloaded).
My question; Why does he do all further calculations with Rp rather than

1/2Rp, since the Q of L1C1 is
reduced to 1/2 by the antenna loading.
MikeK

From -4847404061269313649
X-Google-Thread: 241b302a50,81dda1a1bcba2e6b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!goblin1!goblin.stu.neva.ru!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: o pere o <me@somewhere.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Regarding Rp of an LC
Date: Mon, 15 Nov 2010 19:04:03 +0100
Organization: A noiseless patient Spider
Lines: 22
Message-ID: <ibrsmk$pin$1@news.eternal-september.org>
References: <b33d7$4ce14803$45013905$12386@KNOLOGY.NET>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Mon, 15 Nov 2010 18:04:05 +0000 (UTC)
Injection-Info: mx01.eternal-september.org; posting-host="shIRDf38Iu7M3iowbqMwww";
logging-data="26199"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX1/KdlwE44WDweudjmZq92sV"
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.1.15) Gecko/20101027 Thunderbird/3.0.10
In-Reply-To: <b33d7$4ce14803$45013905$12386@KNOLOGY.NET>
Cancel-Lock: sha1:BALQSEqWwIhVaK8B5P27sAVq0/Y=
Xref: g2news2.google.com sci.electronics.design:212229 rec.radio.amateur.homebrew:4223

On 11/15/2010 03:49 PM, amdx wrote:
> On the webpage http://www.crystal-radio.eu/engev.htm the author diagrams a
> crystal radio with Rp as the losses in L1 and C1. Then he goes further and
> loads L1C1 with an antenna, this reduces Q by 1/2.
> He then adds we can calculate the value of Rp as follows: Rp=2.pi.f.L.Q (Q
> Unloaded).
>   My question; Why does he do all further calculations with Rp rather than
> 1/2Rp, since the Q of L1C1 is
> reduced to 1/2 by the antenna loading.
>   MikeK
>
>

From what I read, I guess:

1. He works out the optimum match between antenna and LC tank.
2. She investigates the optimum match between LC tank and load
completely unrelated to 1.

OTOH, I would be glad to find a reference on how to accurately derive
the proposed equivalent circuit of the diode detector at low signal levels.

Pere

```
From -6161038969456604511
X-Google-Thread: 241b302a50,81dda1a1bcba2e6b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
References: <b33d7$4ce14803$45013905$12386@KNOLOGY.NET>
<ibrsmk$pin$1@news.eternal-september.org>
Subject: Re: Regarding Rp of an  LC
Date: Mon, 15 Nov 2010 12:22:53 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 101115-1, 11/15/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <43aff$4ce17a7b$45013905$980@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 61
X-Trace: 43aff4ce17a7be0a49ca000980
Xref: g2news2.google.com sci.electronics.design:212240
rec.radio.amateur.homebrew:4224
```

"o pere o" <me@somewhere.net> wrote in message
news:ibrsmk$pin$1@news.eternal-september.org...

```
> On 11/15/2010 03:49 PM, amdx wrote:
>> On the webpage http://www.crystal-radio.eu/engev.htm  the author diagrams
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>>
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> 1. He works out the optimum match between antenna and LC tank.
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> unrelated to 1.
>
> OTOH, I would be glad to find a reference on how to accurately derive the
> proposed equivalent circuit of the diode detector at low signal levels.
>
> Pere

Ya, that's what it looks like to me, I sent him an email, but it looks like
he is
not responding to any, his store is closed also, at least for now.

Here's a bunch of information about diode detectors in crystal radios.
I think the first one will answer your question, but Ben Tongue has great
info too.

http://www.crystal-radio.eu/endiodes.htm

http://www.crystal-radio.eu/endetunittest1.htm

http://www.bentongue.com/xtalset/4opd_xfr/4opd_xfr.html

http://www.bentongue.com/xtalset/6XlStSPS/6XlStSPS.html

http://www.bentongue.com/xtalset/7diodeCv/7diodeCv.html

http://www.bentongue.com/xtalset/8DetVIWG/8DetVIWG.html

http://www.bentongue.com/xtalset/10npddec/10npddec.html

http://www.bentongue.com/xtalset/17Is_n/17Is_n.html

http://www.bentongue.com/xtalset/28SqLDtL/28SqLDtL.html

Ben's index page; http://www.bentongue.com/xtalset/xtalset.html

Thanks,   MikeK

```
From 6390005746806605 3
X-Google-Thread: 112d1e,81dda1a1bcba2e6b
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,81dda1a1bcba2e6b
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
References: <b33d7$4ce14803$45013905$12386@KNOLOGY.NET>
Subject: Re: Regarding Rp of an LC
Date: Mon, 15 Nov 2010 13:33:50 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 101115-1, 11/15/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <2924f$4ce18a86$45013905$30633@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 34
X-Trace: 2924f4ce18a86e0a49ca030633
Xref: g2news1.google.com sci.electronics.design:197544
rec.radio.amateur.homebrew:3928

"amdx" <amdx@knology.net> wrote in message
news:b33d7$4ce14803$45013905$12386@KNOLOGY.NET...
> On the webpage http://www.crystal-radio.eu/engev.htm the author diagrams
> a crystal radio with Rp as the losses in L1 and C1. Then he goes further
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> My question; Why does he do all further calculations with Rp rather than
> 1/2Rp, since the Q of L1C1 is
> reduced to 1/2 by the antenna loading.
>   MikeK
>

I received a reply to my question from the webpage author.

"In the formule Rp=2.pi.f.L.Q , I use the Q of the coil in the right-side
part of circuit diagram 2.
This Q is halve the value of the coil Q in the left-side part of circuit
diagram 2.

I consider the right side part of diagram 2 to be a new unloaded circuit,
with it own unloaded Q.
With unloaded I mean here "not loaded with diode or loudspeaker".

Maybe one might say; it's not unloaded because the antenne is connected"
But as you see in circuit diagram 2, in the right side part, there is no
antenne anymore.
It's just a new LC circuit with it's own Q value, wich we are gonna load
with diode and speaker.

The calculated value of Rp is the value which the diode sees, in the situation with the antenna connected"

```
From 2854640216202000549
X-Google-Thread: fc2a5,ee06cd543fe333b5,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!bloom-beacon.mit.edu!micro-heart-of-gold.mit.edu!
nntp.club.cc.cmu.edu!feeder.erje.net!border3.nntp.ams.giganews.com!
Xl.tags.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!
local2.nntp.ams.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 15 Nov 2010 17:08:34 -0600
From: ashawlteella <ashawlteella.72773f8@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: unfiliintuite  soma medicine  Assituant
Date: Mon, 15 Nov 2010 22:58:36 +0000
Message-ID: <ashawlteella.72773f8@radiobanter.com>
Organization: RadioBanter.com
Lines: 32
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-YFDe3sJCQcOXq3WAshb1lKrKrU3j1LICxjwQc6TnLmCqYJ6DhkuWxK6OBCVY+/
kK2ycjp23Liy3KB+J!pQ+4GJ+MExdCpGPdg9o+8/
yyWhnU23PX5ncuRCU1r54GRLeQPx37tdAnKDw8NtJvY4bGLX3RTRrQ!kes45rA38d+c
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 2
X-Original-Bytes: 2721
Xref: g2news1.google.com rec.radio.amateur.homebrew:3929
```

The Food and drug administration, or FDA, says it's illegal for citizens of the usa to purchase tramadol doctors office. To work surrounding this problem, customers must get a prescription from a pharmacy online. This usually makes for a telephone or e-mail interview using a real pharmacist, in which case you will receive the drug up conferences of success.Ultracet is a variety of acetaminophen and tramadol. It is typically prescribed for short term (as much as five days) relief of moderately severe acute pain. Choosing prescribed for post-surgical pain or after dental procedures.
' soma california ' (http://www.visiblespirit.info)Not too long ago several People pharmacies have started relocating goods containing pseudoephedrine directly into places wherever customers need to request the pharmacologist to acquire them, plus a health professional prescribed isn't necessary. This alter has built in an effort to

decrease methamphetamine generation. Numerous Us claims have approved legal guidelines demanding the position of the countertop, submitter associated with recognition as well as recordation associated with purchases.In the united states, the federal Foods, Medicine along with Plastic Take action specifically determine what medications require a prescription. Doctor prescribed medicine is generally sanctioned by medical professionals, though health professional experts also are more and more prescribing drugs. It is normally required that doctor or possibly a registered nurse practitioner or healthcare provider create the particular prescribed; nurse practitioners, urgent situation health care experts, researchers (but not psychiatrists, who are MDs), as cases, do not normally have the legal right to prescribe medicines.

--
ashawlteella

```
From 7549322316783959773
X-Google-Thread: fc2a5,d9797eed53ae4cab,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k11g2000vbf.googlegroups.com!not-for-
mail
From: guru <sridatta9247@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SOUTH ACTRESS HOT PHOTOS&VIDEOS
Date: Mon, 15 Nov 2010 22:27:10 -0800 (PST)
Organization: http://groups.google.com
Lines: 28
Message-ID: <ad883e44-1fd1-4ced-a60f-07dc84037be8@k11g2000vbf.googlegroups.com>
NNTP-Posting-Host: 117.199.245.101
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1289888830 8542 127.0.0.1 (16 Nov 2010 06:27:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 16 Nov 2010 06:27:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k11g2000vbf.googlegroups.com; posting-host=117.199.245.101;
posting-account=7_cYWQoAAADEvSRHsmIxRMxDGxOUDqs2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.12)
 Gecko/20101026 Firefox/3.6.12,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4227
```

FOR SAVE WATER AND CHILD PROTECTION
http://savewaterinworld.blogspot.com

HOT COUPLE ROMANCE

http://babes-devi.blogspot.com/2010/11/couples-in-romance.html
PRANEEHA HOT PICS
http://babes-devi.blogspot.com/2010/11/praneetha-latest-pics.html
AISHWARIYA LATEST HOT PICS
http://babes-devi.blogspot.com/2010/10/aish-latest-pics.html
SOUTHACTRESS IN A SEXY TOWELS
http://babes-devi.blogspot.com/2010/10/south-actress-in-sexy-towels.html
UDAYATHRA IN A BATH ROOM
http://babes-devi.blogspot.com/2010/10/udayatara-in-bath.html
ACTRESS IN A HOT RED DRESS
http://babes-devi.blogspot.com/2010/10/actress-in-sexy-red-dress.html
ASIN CUTE HOT PHOTOS
http://babes-devi.blogspot.com/2010/09/asin-cute-photos.html
SEXY CHARMI IN A BATH
http://babes-devi.blogspot.com/2010/06/charmi-in-bath.html
FOR HOT PHOTOS&VIDEOS
http://babes-devi.blogspot.com/2010_06_01_archive.html
HOT SEXY BOOBS SHOW
http://babes-devi.blogspot.com/2010/09/sexy-boobs.html
ASIN CUTE HOT PHOTOS
http://babes-devi.blogspot.com/2010/09/asin-cute-photos.html
ANKHITA SPICY PHOTOS
http://babes-devi.blogspot.com/2010/08/sexy-ankhitha.html

From 2523532037565142365
X-Google-Thread: fc2a5,79ada01089db4d48,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i17g2000vbq.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT MASALA MASTH VIDEOS
Date: Tue, 16 Nov 2010 02:28:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 52
Message-ID: <b4793c37-5f59-4233-9991-406ca6ca3e15@i17g2000vbq.googlegroups.com>
NNTP-Posting-Host: 117.199.250.122
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1289903308 26541 127.0.0.1 (16 Nov 2010 10:28:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 16 Nov 2010 10:28:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i17g2000vbq.googlegroups.com; posting-host=117.199.250.122;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.12)
Gecko/20101026 Firefox/3.6.12,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4228

hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

hot photos

http://photostou.blogspot.com/2010/09/bollywood-actress-photos-4.html

```
From 3542391682106142816
X-Google-Thread: 112d1e,81dda1a1bcba2e6b
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,81dda1a1bcba2e6b
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
newshosting.com!newsfeed.kamp.net!newsfeed.kamp.net!eternal-september.org!
feeder.eternal-september.org!.POSTED!not-for-mail
From: o pere o <me@somewhere.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Regarding Rp of an  LC
Date: Tue, 16 Nov 2010 17:12:43 +0100
Organization: A noiseless patient Spider
Lines: 67
Message-ID: <ibuahs$d41$1@news.eternal-september.org>
References: <b33d7$4ce14803$45013905$12386@KNOLOGY.NET>
<ibrsmk$pin$1@news.eternal-september.org>
<43aff$4ce17a7b$45013905$980@KNOLOGY.NET>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Tue, 16 Nov 2010 16:12:44 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="shIRDf38Iu7M3iowbqMwww";
     logging-data="13441"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18heUSJ/wbPiwG6bC6GPMWF"
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.1.15) Gecko/20101027
Thunderbird/3.0.10
In-Reply-To: <43aff$4ce17a7b$45013905$980@KNOLOGY.NET>
Cancel-Lock: sha1:MvLMk4Q1vnpQEsv/Ocu2iMBIDns=
Xref: g2news1.google.com sci.electronics.design:197666
rec.radio.amateur.homebrew:3932

On 11/15/2010 07:22 PM, amdx wrote:
> "o pere o"<me@somewhere.net>  wrote in message
> news:ibrsmk$pin$1@news.eternal-september.org...
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>
> http://www.crystal-radio.eu/endiodes.htm
>
> http://www.crystal-radio.eu/endetunittest1.htm
>
>   http://www.bentongue.com/xtalset/4opd_xfr/4opd_xfr.html
>
> http://www.bentongue.com/xtalset/6XlStSPS/6XlStSPS.html
>
> http://www.bentongue.com/xtalset/7diodeCv/7diodeCv.html
>
> http://www.bentongue.com/xtalset/8DetVIWG/8DetVIWG.html
>
> http://www.bentongue.com/xtalset/10npddec/10npddec.html
>
> http://www.bentongue.com/xtalset/17Is_n/17Is_n.html
>
> http://www.bentongue.com/xtalset/28SqLDtL/28SqLDtL.html
>
> Ben's index page; http://www.bentongue.com/xtalset/xtalset.html
>
>   Thanks,   MikeK
>
>

Thanks! I have also found that the Agilent datasheets provide a lot
of info, with some equivalent models in close agreement with your
links'.

Pere

From -3307756974215468273
X-Google-Thread: fc2a5,6cb698ca369fd2,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
newsfeed.straub-nv.de!feeder.news-service.com!94.75.214.39.MISMATCH!aioe.org!not-
for-mail
From: SYS1 <root@sys1.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Multifunction IC
Date: Tue, 16 Nov 2010 17:44:29 +0100
Organization: Aioe.org NNTP Server
Lines: 9
Message-ID: <ibucdb$tc$1@speranza.aioe.org>
NNTP-Posting-Host: l6NPiEpXXKFzbfd+PPmGbg.user.speranza.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Notice: Filtered by postfilter v. 0.8.2
User-Agent: Thunderbird 2.0.0.23 (X11/20090812)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4230

I'm designing a small circuit for use in a QRP transceiver and i would
like to use an IC I have seen somewhere on the net which consist of a
single flip-flop and 2 or 3 logic gates (seem to recall they were
3 inverters or 2 OR's and 1 AND.
I'ts similar to 74HC7074 but this one is very old.
Does samebody remember the part ID for such an IC ?

Thanks, Andrew.

From 1506090078789579378
X-Google-Thread: fc2a5,cb3470cce3092fab,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-06.dc1.easynews.com.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: FS: Tempo PS; Fluke PS; HB UHF Xmtr; Dummy Ant.
From: Eugene Rippen <soundval@muchstuff.com>
Organization: Your Company
Message-ID: <Xns9E328C54227CCer7373@69.16.186.8>
User-Agent: Xnews/5.04.25
Lines: 53
X-Complaints-To: abuse@easynews.com
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we

will be unable to process your complaint properly.
Date: Tue, 16 Nov 2010 21:47:44 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:4231

Tempo AC-1 power supply in the speaker cabinet. Works. Looks good.
$90.00
plus a shipping charge that would be for 25 pounds. No pickup.
http://www.muchstuff.com/11-12-10ham/p1000671.jpg
http://www.muchstuff.com/11-12-10ham/p1000672.jpg
http://www.muchstuff.com/11-12-10ham/p1000673.jpg

(2) Ohmite Dummy Antennas, 250 watts each. Standard tube type 4 pin
base.
The base on one needs replacing. See pic. $20.00, plus a shipping charge
that would be for 2 pounds. No pickup.
http://www.muchstuff.com/11-12-10ham/p1000674.jpg

Fluke Bench Power Supply. Model 407. $90.00 obo, plus a shipping charge
for
40 pounds. Will allow pickup here in Auburn, CA.
http://www.muchstuff.com/11-12-10ham/p1000675.jpg
http://www.muchstuff.com/11-12-10ham/p1000676.jpg
http://www.muchstuff.com/11-12-10ham/p1000677.jpg

UHF homebrew transmitter with a PL-4D21 tube. Great looking. A Motorola
Power Supply that has the high voltage transformer already removed for
shipping. However, I don't expect that anyone wants to pay for what I
would
charge for packing this PS and transformer. So this is for pickup here
in
Auburn. The actual net weight is: Transmitter 8 pounds. Power Supply
75
pounds. and the transformwer 50 pounds. If I pack, will want $75 for my
labor and materials, plus the actual FedEx charge.
I know nothing more than what one can see about these items. I would see
the power supply with transformer separate only after the transmitter is
sold. I have no way of setting a price for these items. Please make an
offer.
http://www.muchstuff.com/11-12-10ham/p1000678.jpg
http://www.muchstuff.com/11-12-10ham/p1000679.jpg
http://www.muchstuff.com/11-12-10ham/p1000680.jpg
http://www.muchstuff.com/11-12-10ham/p1000685.jpg
http://www.muchstuff.com/11-12-10ham/p1000683.jpg
http://www.muchstuff.com/11-12-10ham/p1000682.jpg
http://www.muchstuff.com/11-12-10ham/p1000681.jpg

PayPal, USPS Money Order or Personal check (for which I will wait till it
clears)
If there is to be a pickup I must be paid in full in advance.

Eugene Rippen, WB6SZS

Auburn, CA.

```
From 6749134719675548863
X-Google-Thread: fc2a5,4628ce6ae9c9eed6,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Richard <none@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Solid state HF driver/exciter for 5768
Date: Wed, 17 Nov 2010 11:30:23 +0000
Lines: 6
Message-ID: <8khsmgF396U1@mid.individual.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: individual.net QfZTVJG5qrftvqNKiIogsQLMdTk4XgCIa/+8G7lyQT7e4zLCeM
Cancel-Lock: sha1:j84SdYAOJecMYGI3hiivQ87KqkQ=
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.2.12) Gecko/
20101027 Thunderbird/3.1.6
Xref: g2news2.google.com rec.radio.amateur.homebrew:4233
```

I think the 5763 tube requires 0.1W class C RF drive for full output.

Can anyone point me please to any solid state HF RF drivers that would be handy for driving this tube? Possibly with digital readout. I don't have recent radio handbooks. Thanks.

```
From 8181239013846512725
X-Google-Thread: fc2a5,157f3998609997c7,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Richard <none@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Seeking solid state exciter/driver circuit for 5763 tube
Date: Wed, 17 Nov 2010 11:33:06 +0000
Lines: 5
Message-ID: <8khsrjF396U3@mid.individual.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: individual.net pwgtKvgIAb3aChKwuGWJWApeyKDhn3kE8kKIokuSS256T/op5x
```

Cancel-Lock: sha1:+sblkmR79pzwT1fMQnl0zL/7wDQ=
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.2.12) Gecko/
20101027 Thunderbird/3.1.6
Xref: g2news2.google.com rec.radio.amateur.homebrew:4234

I think the 5763 tube requires 0.1W class C RF drive for full output.

Can anyone point me please to any solid state HF RF drivers that would
be handy for driving this tube? Possibly with digital readout. I don't
have recent radio handbooks. Thanks.

From 240098297894766500
X-Google-Thread: fc2a5,157f3998609997c7
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Richard <none@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Seeking solid state exciter/driver circuit for 5763 tube
Date: Wed, 17 Nov 2010 11:36:28 +0000
Lines: 8
Message-ID: <8kht1sF528U1@mid.individual.net>
References: <8khsrjF396U3@mid.individual.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: individual.net Nor9rKcuAomLCkRe0tq1lAmtNXT6ktTN+IML56ZoY2Nz0yZPdv
Cancel-Lock: sha1:kQ1Qds3laOaTlN4omvGv/iG1RTI=
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.2.12) Gecko/
20101027 Thunderbird/3.1.6
In-Reply-To: <8khsrjF396U3@mid.individual.net>
Xref: g2news1.google.com rec.radio.amateur.homebrew:3938

On 17/11/2010 11:33, Richard wrote:
> I think the 5763 tube requires 0.1W class C RF drive for full output.
>
> Can anyone point me please to any solid state HF RF drivers that would
> be handy for driving this tube? Possibly with digital readout. I don't
> have recent radio handbooks. Thanks.

Oh, I am thinking CW. Not an SSB RF exciter.

From 2397624680645627904
X-Google-Thread: fc2a5,157f3998609997c7
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
feeder1.news.elisa.fi!uutiset.elisa.fi!7564ea0f!not-for-mail

```
From: KBa <kba@nic.fi>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.2.12) Gecko/
20101027 Thunderbird/3.1.6
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Seeking solid state exciter/driver circuit for 5763 tube
References: <8khsrjF396U3@mid.individual.net> <8kht1sF528U1@mid.individual.net>
In-Reply-To: <8kht1sF528U1@mid.individual.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 21
Message-ID: <_9REo.23024$7N7.21870@uutiset.elisa.fi>
Date: Wed, 17 Nov 2010 15:56:04 +0200
NNTP-Posting-Host: 85.76.1.94
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1290002170 85.76.1.94 (Wed, 17 Nov 2010 15:56:10 EET)
NNTP-Posting-Date: Wed, 17 Nov 2010 15:56:10 EET
Organization: Elisa Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:3939

On 17.11.2010 13:36, Richard wrote:
> On 17/11/2010 11:33, Richard wrote:
>> I think the 5763 tube requires 0.1W class C RF drive for full output.
>>
>> Can anyone point me please to any solid state HF RF drivers that would
>> be handy for driving this tube? Possibly with digital readout. I don't
>> have recent radio handbooks. Thanks.
>
> Oh, I am thinking CW. Not an SSB RF exciter.

Hi, one now already somewhat "museum age" design was once described in
VHF Communication magazine 1/1982, A Wideband driver for the Shortwave
bands, if available... Still useful and solid desing.
There could be other equal designs somewhere with modern wideband
op-amps etc. but this would give HF range gain of 44dB and is linear,
not in C-class but can set to run in class C...
It will also drive tube amplifiers nicely with 1:4 step-up transformer
at tube grid...
This is not really a kit, but could give some new views to your needs.

br K



From -942557712057933951
X-Google-Thread: 112d1e,81dda1a1bcba2e6b
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,81dda1a1bcba2e6b
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
```

From: "amdx" <amdx@knology.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
References: <b33d7$4ce14803$45013905$12386@KNOLOGY.NET>
<ibrsmk$pin$1@news.eternal-september.org>
<43aff$4ce17a7b$45013905$980@KNOLOGY.NET> <ibuahs$d41$1@news.eternal-september.org>
Subject: Re: Regarding Rp of an LC
Date: Wed, 17 Nov 2010 09:25:03 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 101117-0, 11/17/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <a2ad6$4ce3f3ca$45013905$32645@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 81
X-Trace: a2ad64ce3f3cae0a49ca032645
Xref: g2news2.google.com sci.electronics.design:212514
rec.radio.amateur.homebrew:4237

"o pere o" <me@somewhere.net> wrote in message
news:ibuahs$d41$1@news.eternal-september.org...
> On 11/15/2010 07:22 PM, amdx wrote:
>> "o pere o"<me@somewhere.net> wrote in message
>> news:ibrsmk$pin$1@news.eternal-september.org...
>>> On 11/15/2010 03:49 PM, amdx wrote:
>>>> On the webpage http://www.crystal-radio.eu/engev.htm the author
>>>> diagrams
>>>> a
>>>> crystal radio with Rp as the losses in L1 and C1. Then he goes further
>>>> and
>>>> loads L1C1 with an antenna, this reduces Q by 1/2.
>>>> He then adds we can calculate the value of Rp as follows: Rp=2.pi.f.L.Q
>>>> (Q
>>>> Unloaded).
>>>>   My question; Why does he do all further calculations with Rp rather
>>>> than
>>>> 1/2Rp, since the Q of L1C1 is
>>>> reduced to 1/2 by the antenna loading.
>>>>   MikeK
>>>>
>>>>
>>> From what I read, I guess:
>>>
>>> 1. He works out the optimum match between antenna and LC tank.
>>> 2. She investigates the optimum match between LC tank and load
>>> completely
>>> unrelated to 1.
>>>

>>> OTOH, I would be glad to find a reference on how to accurately derive
>>> the
>>> proposed equivalent circuit of the diode detector at low signal levels.
>>>
>>> Pere
>>
>> Ya, that's what it looks like to me, I sent him an email, but it looks
>> like
>> he is
>> not responding to any, his store is closed also, at least for now.
>>
>> Here's a bunch of information about diode detectors in crystal radios.
>> I think the first one will answer your question, but Ben Tongue has great
>> info too.
>>
>> http://www.crystal-radio.eu/endiodes.htm
>>
>> http://www.crystal-radio.eu/endetunittest1.htm
>>
>>   http://www.bentongue.com/xtalset/4opd_xfr/4opd_xfr.html
>>
>> http://www.bentongue.com/xtalset/6XlStSPS/6XlStSPS.html
>>
>> http://www.bentongue.com/xtalset/7diodeCv/7diodeCv.html
>>
>> http://www.bentongue.com/xtalset/8DetVIWG/8DetVIWG.html
>>
>> http://www.bentongue.com/xtalset/10npddec/10npddec.html
>>
>> http://www.bentongue.com/xtalset/17Is_n/17Is_n.html
>>
>> http://www.bentongue.com/xtalset/28SqLDtL/28SqLDtL.html
>>
>> Ben's index page; http://www.bentongue.com/xtalset/xtalset.html
>>
>>   Thanks,   MikeK
>>
>>
>
> Thanks! I have also found that the Agilent datasheets provide a lot
> of info, with some equivalent models in close agreement with your
> links'.
>
> Pere
 Hi Pere,
Found this page, has a lot of info, some is a rehash of Ben's info
but there is a lot here.
http://www.klimaco.com/HAMRADIOPAGES/xtal_how_to.htm
                       MikeK

From 4404706058403630119
X-Google-Thread: 241b302a50,157f3998609997c7
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Richard <none@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Seeking solid state exciter/driver circuit for 5763 tube
Date: Wed, 17 Nov 2010 16:01:35 +0000
Lines: 35
Message-ID: <8kicj0F729U1@mid.individual.net>
References: <8khsrjF396U3@mid.individual.net> <8kht1sF528U1@mid.individual.net> <_9REo.23024$7N7.21870@uutiset.elisa.fi>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: individual.net YSx+KbDjsI0N1i4ArkVmOwxiIdOQu7GpDjMfHE7TZeR+vAqc6F
Cancel-Lock: sha1:/mwmS53XGw/rC6PTTs/+MOvZljc=
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.2.12) Gecko/20101027 Thunderbird/3.1.6
In-Reply-To: <_9REo.23024$7N7.21870@uutiset.elisa.fi>
Xref: g2news2.google.com rec.radio.amateur.homebrew:4238

On 17/11/2010 13:56, KBa wrote:
> On 17.11.2010 13:36, Richard wrote:
>> On 17/11/2010 11:33, Richard wrote:
>>> I think the 5763 tube requires 0.1W class C RF drive for full output.
>>>
>>> Can anyone point me please to any solid state HF RF drivers that would
>>> be handy for driving this tube? Possibly with digital readout. I don't
>>> have recent radio handbooks. Thanks.
>>
>> Oh, I am thinking CW. Not an SSB RF exciter.
>
> Hi, one now already somewhat "museum age" design was once described in
> VHF Communication magazine 1/1982, A Wideband driver for the Shortwave
> bands, if available... Still useful and solid desing.
> There could be other equal designs somewhere with modern wideband
> op-amps etc. but this would give HF range gain of 44dB and is linear,
> not in C-class but can set to run in class C...
> It will also drive tube amplifiers nicely with 1:4 step-up transformer
> at tube grid...
> This is not really a kit, but could give some new views to your needs.
>
> br K

Hi.

I've just got the RSGB handbook from 1973. Possibly a little old in the tooth.

I could do with the latest RSGB edition, ARRL handbook, or some sort of cook-book. Probably. :c)

There are probably some wideband designs or otherwise on the WWW. Just a matter of finding them.

Maybe I should spend some money on a new book. :c)

From 2697991822592329171
X-Google-Thread: fc2a5,4628ce6ae9c9eed6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!STARBAND.NET-a2kHrUvQQWlmc!not-for-mail
From: you <you@shadows.orgs>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Solid state HF driver/exciter for 5768
Organization: shadows.orgs
References: <8khsmgF396U1@mid.individual.net>
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
Date: Wed, 17 Nov 2010 10:05:20 -0900
Message-ID: <you-6780F2.10051117112010@news.starband.net>
X-Complaints-To: abuse@usenetserver.com
Lines: 10
X-Trace: 1852d4ce426c431e5901f13881
Xref: g2news2.google.com rec.radio.amateur.homebrew:4239

In article <8khsmgF396U1@mid.individual.net>,
 Richard <none@ntlworld.com> wrote:

> I think the 5763 tube requires 0.1W class C RF drive for full output.
>
> Can anyone point me please to any solid state HF RF drivers that would
> be handy for driving this tube? Possibly with digital readout. I don't
> have recent radio handbooks. Thanks.

2N3866

From -805538159404568929
X-Google-Thread: fc2a5,157f3998609997c7
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!s5g2000yqm.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Seeking solid state exciter/driver circuit for 5763 tube
Date: Thu, 18 Nov 2010 17:59:25 -0800 (PST)

```
Organization: http://groups.google.com
Lines: 14
Message-ID: <9e23c4c5-deac-4fde-b714-36dc08b2eb72@s5g2000yqm.googlegroups.com>
References: <8khsrjF396U3@mid.individual.net>
NNTP-Posting-Host: 155.178.6.19
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1290131965 12365 127.0.0.1 (19 Nov 2010 01:59:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 19 Nov 2010 01:59:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s5g2000yqm.googlegroups.com; posting-host=155.178.6.19; posting-
account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
 Trident/4.0; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4240

On Nov 17, 7:33=A0am, Richard <n...@ntlworld.com> wrote:
> I think the 5763 tube requires 0.1W class C RF drive for full output.
>
> Can anyone point me please to any solid state HF RF drivers that would
> be handy for driving this tube? =A0Possibly with digital readout. I don't
> have recent radio handbooks. Thanks.

I would think most VFOs could do this with the proper impedance
matching.My friend did something like this and either used a 4:1 or
16:1 stepup transformer to drive the tube. I think he used an HP
signal generator at one time to drive the circuit which was a 5763
driving a 6146B.

Jimmie


From -8636579553929777779
X-Google-Thread: fc2a5,36c8d9d3d75af563,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!goblin3!gin-ad1-unet1.teleglobe.net!
goblin1!goblin.stu.neva.ru!feeder.news-service.com!216.196.110.142.MISMATCH!
border3.nntp.ams.giganews.com!Xl.tags.giganews.com!border1.nntp.ams.giganews.com!
nntp.giganews.com!local2.nntp.ams.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 19 Nov 2010 17:08:34 -0600
From: 1aAgobiag <1aAgobiag.72cb9f9@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: unfiliintuite  buy prescription phentermine  Assituant
Date: Fri, 19 Nov 2010 21:57:30 +0000
Message-ID: <1aAgobiag.72cb9f9@radiobanter.com>
Organization: RadioBanter.com
Lines: 30
```

```
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-fm5WJqp6BeUBtDGHD61+QgNmh/8CyBGp8/
VVODooYD0l1Z92XyS7QscxXXurNItXyFBZvxdtv0tGSiN!
HsHyNZEdipy5MlcBwu2Mnu2p5+yZRdReWy1+BAvfVOZZeNzUPo1Hp0wvJzU0k+hz9Frmk2IsbJch!
q2Jb8J17
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 1
X-Original-Bytes: 2573
Xref: g2news1.google.com rec.radio.amateur.homebrew:3944
```

Celebrex is employed in the management of signs and symptoms of arthritis. Including pain, stiffness, swelling and inflammation. The medication won't cure arthritis, but provides symptomatic relief. This is a nonsteroidal anti-inflammatory drug (NSAID) which relieves pain and inflammation. The drug sticks to blocking the production of prostaglandins in the body. Prostaglandins contribute on the pain and swelling connected with arthritis.The ultram mechanism as described above is much like the mechanism used by narcotics. Acetaminophen naturally could be the active ingredient in Tylenol. It works by increasing the threshold to pain (i.e. it requires more pain stimulus to make the sensation of pain). These two drugs work by different mechanisms, and they combine being more potent than either drug alone.' buy phentermine now ' (http://www.fengshuimasterwong.com)In america, the particular create along with purchase regarding Over the counter substances is regulated from the Fda (Fda standards). Create must be either pursuant to a Food and drug administration monograph, which specifies forms of Otc medicines, active ingredients as well as brands demands, as well as pursuant to some Fresh Medicine Program (NDA), for products that do not effectively in shape in a certain monograph.Fioricet is really a mix medicine. It is made up of acetaminophen, caffeinated drinks along with butalbital. Acetaminophen is the identical medication throughout Tylenol You know the level of caffeine through java (and even your selected candy bar.) Butalbital is really a slight barbiturate. This calms a person.

--
1aAgobiag

```
From -292196145509185921
X-Google-Thread: fc2a5,6cb698ca369fd2
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!weretis.net!
```

feeder4.news.weretis.net!feeder2.ecngs.de!ecngs!feeder.ecngs.de!
Xl.tags.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!
local2.nntp.ams.giganews.com!nntp.brightview.co.uk!news.brightview.co.uk.POSTED!
not-for-mail
NNTP-Posting-Date: Thu, 25 Nov 2010 16:26:10 -0600
From: "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <ibucdb$tc$1@speranza.aioe.org>
Subject: Re: Multifunction IC
Date: Thu, 25 Nov 2010 22:26:09 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <OuednUtcVZoef3PRnZ2dnUVZ8lqdnZ2d@brightview.co.uk>
Lines: 19
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
y7MQJ6uvXPbKsxyHeAx+OGDWarY3yglj6oiapimLfOvdHidpazngvHp69VmC6nrdZODBiOW3X0+16N8!
WOGWg9DfDydSBz0771U1uxIMqabBywTEJ7eEGFgI60d8uuuG8BRYh6rt2dbl3cazTYnOXea/wMvW!
JQeROs38deYFkURSMsYWtlRf
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1544
Xref: g2news1.google.com rec.radio.amateur.homebrew:3946

Andrew,

I don't know which IC you mean but you could use a Quad NAND IC (74x08 etc)
and use that to make a flip-flop out of two of the NANDs which leaves two
NANDs spare for other purposes.

JOHN
--
~~~~~~~~~~~~~~~~~~~~~~~~~~
UK broadband from just �6.49/month
                ----   OR   ----
broadband+phone from �17.74/month
[inc. line rental+weekend/evening calls]
                   ----
see www.wells10000.plus.com for info
~~~~~~~~~~~~~~~~~~~~~~~~~~

From 1171234342026912876
X-Google-Thread: fc2a5,6cb698ca369fd2
X-Google-NewGroupId: yes

```
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!goblin3!goblin2!goblin.stu.neva.ru!
aioe.org!not-for-mail
From: Andreu <sys1@sci.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Multifunction IC
Date: Fri, 26 Nov 2010 11:35:10 +0100
Organization: Aioe.org NNTP Server
Lines: 14
Message-ID: <4CEF8D5E.1040405@sci.org>
References: <ibucdb$tc$1@speranza.aioe.org>
<OuednUtcVZoef3PRnZ2dnUVZ8lqdnZ2d@brightview.co.uk>
NNTP-Posting-Host: fljcCCBogdO/yjhiBZR/Rg.user.speranza.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Notice: Filtered by postfilter v. 0.8.2
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3947
```

Thanks John, will think about that ....

Andrew.

John W wrote:

> Andrew,
>
> I don't know which IC you mean but you could use a Quad NAND IC (74x08 etc)
> and use that to make a flip-flop out of two of the NANDs which leaves two
> NANDs spare for other purposes.
>
>
> JOHN

```
From -6398313837015667 59
X-Google-Thread: fc2a5,6cb698ca369fd2
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
94.75.214.39.MISMATCH!aioe.org!not-for-mail
From: Andreu <sys1@sci.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Multifunction IC
Date: Fri, 26 Nov 2010 11:35:35 +0100
Organization: Aioe.org NNTP Server
Lines: 14
Message-ID: <4CEF8D77.5080103@sci.org>
References: <ibucdb$tc$1@speranza.aioe.org>
```

```
<OuednUtcVZoef3PRnZ2dnUVZ8lqdnZ2d@brightview.co.uk>
NNTP-Posting-Host: fljcCCBogdO/yjhiBZR/Rg.user.speranza.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Notice: Filtered by postfilter v. 0.8.2
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3948

Thanks John, will think about that ....

Andrew.


John W wrote:
> Andrew,
>
> I don't know which IC you mean but you could use a Quad NAND IC (74x08 etc)
> and use that to make a flip-flop out of two of the NANDs which leaves two
> NANDs spare for other purposes.
>
>
> JOHN


From -4756157683336686l6
X-Google-Thread: fc2a5,6cb698ca369fd2
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!goblin1!goblin2!goblin.stu.neva.ru!
aioe.org!not-for-mail
From: Andreu <sys1@sci.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Multifunction IC
Date: Fri, 26 Nov 2010 11:37:07 +0100
Organization: Aioe.org NNTP Server
Lines: 14
Message-ID: <ico2l0$g6s$3@speranza.aioe.org>
References: <ibucdb$tc$1@speranza.aioe.org>
<OuednUtcVZoef3PRnZ2dnUVZ8lqdnZ2d@brightview.co.uk>
NNTP-Posting-Host: fljcCCBogdO/yjhiBZR/Rg.user.speranza.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Notice: Filtered by postfilter v. 0.8.2
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3949

Thanks John, will think about that ....
```

```
Andrew.


John W wrote:
> Andrew,
>
> I don't know which IC you mean but you could use a Quad NAND IC (74x08 etc)
> and use that to make a flip-flop out of two of the NANDs which leaves two
> NANDs spare for other purposes.
>
>
> JOHN


From -5981785991006175515
X-Google-Thread: fc2a5,6cb698ca369fd2
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew
References: <ibucdb$tc$1@speranza.aioe.org>
<OuednUtcVZoef3PRnZ2dnUVZ8lqdnZ2d@brightview.co.uk>
<ico2l0$g6s$3@speranza.aioe.org>
Subject: Re: Multifunction IC
Date: Sat, 27 Nov 2010 06:44:18 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3664
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3664
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 101127-0, 11/27/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <9567e$4cf0fcf3$18ec6dd7$8064@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 13
X-Trace: 9567e4cf0fcf3bd49c87208064
Xref: g2news1.google.com rec.radio.amateur.homebrew:3950


"Andreu" <sys1@sci.org> wrote in message
news:ico2l0$g6s$3@speranza.aioe.org...
> Thanks John, will think about that ....
>
> Andrew.

   Andrew,
 If I were you, I would think about that ....
```

MikeK

```
From 6912030170405799795
X-Google-Thread: fc2a5,6cb698ca369fd2
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!goblin1!goblin.stu.neva.ru!
border1.nntp.ams2.giganews.com!border3.nntp.ams.giganews.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!local2.nntp.ams.giganews.com!
nntp.brightview.co.uk!news.brightview.co.uk.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 27 Nov 2010 10:40:02 -0600
Reply-To: "PA" <stuck@home>
From: "PA" <stuck@home>
Newsgroups: rec.radio.amateur.homebrew
References: <ibucdb$tc$1@speranza.aioe.org>
<OuednUtcVZoef3PRnZ2dnUVZ8lqdnZ2d@brightview.co.uk>
<ico2l0$g6s$3@speranza.aioe.org> <9567e$4cf0fcf3$18ec6dd7$8064@KNOLOGY.NET>
Subject: Re: Multifunction IC
Date: Sat, 27 Nov 2010 16:39:43 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.2001
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.2001
X-Antivirus: avast! (VPS 101127-0, 27/11/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <zPqdncmNr-L_qWzRnZ2dnUVZ8sednZ2d@brightview.co.uk>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
TQTqVoin0HLVkYQMFRxebj4m7LVm3wgunKM1qsbLq6ILYui202N8vClWDVJiCsYyhGXHaz+3B4TSVtj!
SlT2l8fsY+bVL/0DdiGfqk0KAspDHZgWS+PV3J9SUxOVYqGKFIM8XTYhke1gZut5EPqXRlB1PXNE!
CqrF99grXXbAOZ7Yv2GXZ+TxwLY=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1726
Xref: g2news1.google.com rec.radio.amateur.homebrew:3951
```

```
"amdx" <amdx@knology.net> wrote in message
news:9567e$4cf0fcf3$18ec6dd7$8064@KNOLOGY.NET...
>
> "Andreu" <sys1@sci.org> wrote in message
> news:ico2l0$g6s$3@speranza.aioe.org...
> > Thanks John, will think about that ....
> >
> > Andrew.
>
```

>   Andrew,
> If I were you, I would think about that ....
>
>   MikeK
>
>

But not TOO long, as a 74x08 is NOT a NAND function.

PA

From 5362421438285928873
X-Google-Thread: 241b302a50,6cb698ca369fd2
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!216.196.110.144.MISMATCH!border3.nntp.ams.giganews.com!Xl.tags.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!local2.nntp.ams.giganews.com!nntp.brightview.co.uk!news.brightview.co.uk.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 28 Nov 2010 11:37:45 -0600
From: "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <ibucdb$tc$1@speranza.aioe.org> <OuednUtcVZoef3PRnZ2dnUVZ8lqdnZ2d@brightview.co.uk> <ico2l0$g6s$3@speranza.aioe.org> <9567e$4cf0fcf3$18ec6dd7$8064@KNOLOGY.NET> <zPqdncmNr-L_qWzRnZ2dnUVZ8sednZ2d@brightview.co.uk>
Subject: Re: Multifunction IC
Date: Sun, 28 Nov 2010 17:37:32 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <Lv-dnd3yKZb0Dm_RnZ2dnUVZ8oCdnZ2d@brightview.co.uk>
Lines: 41
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-4TR8jcH0ESDYgzaDBxku76hyEk3fnI8CLXahAyFm3H/ID9WzmGsmPxqVSAfSIqaG7NvvlU41ErobNh5!g0+i4HYUbWNbp0v50PdGyhWNjLpI9putc95iSPeGjHmzLsZd2v/7p6tdmqpi1Jru8U5nzm4Vje4e!ROCNb13ubyYaDD8kTu+PA6ly/zU=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2170
Xref: g2news1.google.com rec.radio.amateur.homebrew:3952

Well spotted - ahh those little grey cells.

```
74x00 = quad NAND, 74x08 = quad AND sorry.

JOHN

--
~~~~~~~~~~~~~~~~~~~~~~~~~~
UK broadband from just �6.49/month
                ----   OR   ----
broadband+phone from �17.74/month
[inc. line rental+weekend/evening calls]
                   ------------
see www.wells10000.plus.com for info
~~~~~~~~~~~~~~~~~~~~~~~~~~
"PA" <stuck@home> wrote in message
news:zPqdncmNr-L_qWzRnZ2dnUVZ8sednZ2d@brightview.co.uk...
>
> "amdx" <amdx@knology.net> wrote in message
> news:9567e$4cf0fcf3$18ec6dd7$8064@KNOLOGY.NET...
>>
>> "Andreu" <sys1@sci.org> wrote in message
>> news:ico2l0$g6s$3@speranza.aioe.org...
>> > Thanks John, will think about that ....
>> >
>> > Andrew.
>>
>>    Andrew,
>>  If I were you, I would think about that ....
>>
>>                             MikeK
>>
>>
>
> But not TOO long, as a 74x08 is NOT a NAND function.
>
> PA
>
>




From 8278001641479882639
X-Google-Thread: fc2a5,6cb698ca369fd2
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!l17g2000yqe.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Multifunction IC
Date: Sun, 28 Nov 2010 12:36:28 -0800 (PST)
Organization: http://groups.google.com
```

```
Lines: 49
Message-ID: <2de2b868-38c7-4ac7-94ce-96333c3e1518@l17g2000yqe.googlegroups.com>
References: <ibucdb$tc$1@speranza.aioe.org>
<OuednUtcVZoef3PRnZ2dnUVZ8lqdnZ2d@brightview.co.uk>
 <ico2l0$g6s$3@speranza.aioe.org> <9567e$4cf0fcf3$18ec6dd7$8064@KNOLOGY.NET>
 <zPqdncmNr-L_qWzRnZ2dnUVZ8sednZ2d@brightview.co.uk> <Lv-
dnd3yKZb0Dm_RnZ2dnUVZ8oCdnZ2d@brightview.co.uk>
NNTP-Posting-Host: 108.70.57.126
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1290976588 17196 127.0.0.1 (28 Nov 2010 20:36:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 28 Nov 2010 20:36:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l17g2000yqe.googlegroups.com; posting-host=108.70.57.126; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.15)
 Gecko/20101027 SeaMonkey/2.0.10,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3953

On Nov 28, 9:37=A0am, "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
wrote:
> Well spotted - ahh those little grey cells.
>
> 74x00 =3D quad NAND, 74x08 =3D quad AND sorry.
>
> JOHN
>
> --
> ~~~~~~~~~~~~~~~~~~~~~~~~~~
> UK broadband from just 6.49/month
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 ---- =A0 OR =A0 ----
> broadband+phone from 17.74/month
> [inc. line rental+weekend/evening calls]
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0------------
> seewww.wells10000.plus.comfor info
> ~~~~~~~~~~~~~~~~~~~~~~~~~~"PA" <stuck@home> wrote in message
>
> news:zPqdncmNr-L_qWzRnZ2dnUVZ8sednZ2d@brightview.co.uk...
>
>
>
> > "amdx" <a...@knology.net> wrote in message
> >news:9567e$4cf0fcf3$18ec6dd7$8064@KNOLOGY.NET...
>
> >> "Andreu" <s...@sci.org> wrote in message
> >>news:ico2l0$g6s$3@speranza.aioe.org...
> >> > Thanks John, will think about that ....
>
> >> > Andrew.
>
```

```
> >> =A0 =A0Andrew,
> >> =A0If I were you, I would think about that ....
>
> >> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 MikeK
>
> > But not TOO long, as a 74x08 is NOT a NAND function.
>
> > PA

Hey OM:
I beg to differ:
7408 plus 7404 on the outputs is a quad  NAND gate plus 2 inverters.
And I can stack that 7408 on top of a 7404 IC and make it multi
function, on steroids.

73 OM:
de n8zu




From 8658792939890327212
X-Google-Thread: fc2a5,6cb698ca369fd2
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!s4g2000yql.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Multifunction IC
Date: Sun, 28 Nov 2010 17:03:27 -0800 (PST)
Organization: http://groups.google.com
Lines: 21
Message-ID: <b14d942a-7a84-458b-9eb3-8a3c521d0685@s4g2000yql.googlegroups.com>
References: <ibucdb$tc$1@speranza.aioe.org>
NNTP-Posting-Host: 108.70.57.126
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1290992607 2922 127.0.0.1 (29 Nov 2010 01:03:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 29 Nov 2010 01:03:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s4g2000yql.googlegroups.com; posting-host=108.70.57.126; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.15)
 Gecko/20101027 SeaMonkey/2.0.10,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3954

On Nov 16, 8:44=A0am, SYS1 <r...@sys1.org> wrote:
> I'm designing a small circuit for use in a QRP transceiver and i would
> like to use an IC I have seen somewhere on the net which consist of a
```

> single flip-flop and 2 or 3 logic gates (seem to recall they were
> 3 inverters or 2 OR's and 1 AND.
> I'ts similar to 74HC7074 but this one is very old.
> Does samebody remember the part ID for such an IC ?
>
> Thanks, Andrew.

Hey OT:

I think what you has seen is a cd4046 internal workings like this TI
pdf shows:

http://focus.ti.com/lit/an/scha002a/scha002a.pdf

or maybe a similar pll.

73 OT
de n8zu

From 5213436588665964144
X-Google-Thread: fc2a5,6cb698ca369fd2
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!
94.75.214.39.MISMATCH!aioe.org!not-for-mail
From: Andreu <sys1@sci.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Multifunction IC
Date: Mon, 29 Nov 2010 20:27:43 +0100
Organization: Aioe.org NNTP Server
Lines: 21
Message-ID: <id0urv$pdc$1@speranza.aioe.org>
References: <ibucdb$tc$1@speranza.aioe.org>
<OuednUtcVZoef3PRnZ2dnUVZ8lqdnZ2d@brightview.co.uk>
<ico2l0$g6s$3@speranza.aioe.org> <9567e$4cf0fcf3$18ec6dd7$8064@KNOLOGY.NET>
<zPqdncmNr-L_qWzRnZ2dnUVZ8sednZ2d@brightview.co.uk> <Lv-dnd3yKZb0Dm_RnZ2dnUVZ8oCdnZ2d@brightview.co.uk>
<2de2b868-38c7-4ac7-94ce-96333c3e1518@l17g2000yqe.googlegroups.com>
NNTP-Posting-Host: vzPQ/5gk0h+C7q/mNB8d2A.user.speranza.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Notice: Filtered by postfilter v. 0.8.2
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4253

Hello, first thanks for your comments and suggestions, and
sorry for my tri-post...sometimes thunderbird combined with my nerves
make for such nasty things.
Regarding the IC, please look at:

http://www.qsl.net/va3iul/Homebrew_RF_Circuit_Design_Ideas/Single-IC_Keyer_W9HFM.gif

and you will see a CW keyer build around a single IC (MC787P in this case).
So yes, such a rare beasts exist ...lol. They consist of a J-K flip-flop
and 2 or 3 gates. The problem is that they are dated back from the 70's
and doesn't exist anymore, so I was looking for a more current one.
Thanks anyway and happy new year !!

Andrew.

raypsi wrote:
> On Nov 28, 9:37 am, "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
> wrote:
>> Well spotted - ahh those little grey cells.

From 1183881175659926417
X-Google-Thread: 241b302a50,6cb698ca369fd2
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!news2.euro.net!newsgate.cistron.nl!newsgate.news.xs4all.nl!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Multifunction IC
References: <ibucdb$tc$1@speranza.aioe.org>
 <OuednUtcVZoef3PRnZ2dnUVZ8lqdnZ2d@brightview.co.uk>
 <ico2l0$g6s$3@speranza.aioe.org> <9567e$4cf0fcf3$18ec6dd7$8064@KNOLOGY.NET>
 <zPqdncmNr-L_qWzRnZ2dnUVZ8sednZ2d@brightview.co.uk>
 <Lv-dnd3yKZb0Dm_RnZ2dnUVZ8oCdnZ2d@brightview.co.uk>
 <2de2b868-38c7-4ac7-94ce-96333c3e1518@l17g2000yqe.googlegroups.com>
 <id0urv$pdc$1@speranza.aioe.org>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrnif8023.inl.nomail@xs8.xs4all.nl>
Date: 29 Nov 2010 19:34:27 GMT
Lines: 15
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1291059267 news.xs4all.nl 81481 [::ffff:194.109.21.8]:44255
X-Complaints-To: abuse@xs4all.nl
Xref: g2news2.google.com rec.radio.amateur.homebrew:4254

Andreu <sys1@sci.org> wrote:
> Hello, first thanks for your comments and suggestions, and
> sorry for my tri-post...sometimes thunderbird combined with my nerves
> make for such nasty things.

> Regarding the IC, please look at:
>
> http://www.qsl.net/va3iul/Homebrew_RF_Circuit_Design_Ideas/Single-IC_Keyer_W9HFM.gif
>
> and you will see a CW keyer build around a single IC (MC787P in this case).
> So yes, such a rare beasts exist ...lol. They consist of a J-K flip-flop
> and 2 or 3 gates. The problem is that they are dated back from the 70's
> and doesn't exist anymore, so I was looking for a more current one.

These days, people designing an entire circuit around a single IC use
a microcontroller. E.g. a PIC or something from AVR.

```
From 3444633647183801258
X-Google-Thread: fc2a5,6cb698ca369fd2
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 29 Nov 2010 19:52:25 -0600
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <ibucdb$tc$1@speranza.aioe.org>
<OuednUtcVZoef3PRnZ2dnUVZ8lqdnZ2d@brightview.co.uk>
<ico2l0$g6s$3@speranza.aioe.org> <9567e$4cf0fcf3$18ec6dd7$8064@KNOLOGY.NET>
<zPqdncmNr-L_qWzRnZ2dnUVZ8sednZ2d@brightview.co.uk> <Lv-
dnd3yKZb0Dm_RnZ2dnUVZ8oCdnZ2d@brightview.co.uk>
<2de2b868-38c7-4ac7-94ce-96333c3e1518@l17g2000yqe.googlegroups.com>
<id0urv$pdc$1@speranza.aioe.org>
Subject: Re: Multifunction IC
Date: Mon, 29 Nov 2010 19:52:24 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
Message-ID: <VLCdnVAAPM1ExWnRnZ2dnUVZ_hCdnZ2d@giganews.com>
Lines: 33
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-w1nTeHbH1MEMxMNclR6LsNEP+UZdZJbwXJgWpn+e5mcaX3fslKWOk/
GLSQdhS4PRSIW6QBAqS9SkAWB!QbRHu/
eYwuy0C1Auxdk26cOiR3nwMCi26vM6+LkdBvWwJCa918jr7N3zMB7fMEIakpYhIsMtUjHl
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2797
Xref: g2news1.google.com rec.radio.amateur.homebrew:3959
```

Andreu wrote:
> Hello, first thanks for your comments and suggestions, and
> sorry for my tri-post...sometimes thunderbird combined with my nerves
> make for such nasty things.
> Regarding the IC, please look at:
>
> http://www.qsl.net/va3iul/Homebrew_RF_Circuit_Design_Ideas/Single-IC_Keyer_W9HFM.gif
>
> and you will see a CW keyer build around a single IC (MC787P in this
> case). So yes, such a rare beasts exist ...lol. They consist of a J-K
> flip-flop and 2 or 3 gates. The problem is that they are dated back
> from the 70's and doesn't exist anymore, so I was looking for a more
> current one. Thanks anyway and happy new year !!
>
> Andrew.

You might be able to duplicate the circuit by using CMOS chips instead of
hunting forever for the MC787P. The 4009 (hex inverter) or 4010 (hex
buffer). Due to the way they're drawn on the schematic, I'm assuming that
all three of the gates in the MC787P are inverting, so you would use the
4009 for those. A 4027 could be used for the JK flipflop. The CMOS chips
will work down to the 3.6 volts specified, so that shouldn't be a problem.
The 1N270 diodes are germanium signal diodes, and are still available. The
2N4888 transistor replacement is the NTE288.
You should be able to find all from Mouser.com.
Good luck with your project.

--
David
dgminala at mediacombb dot net

From -2719395218412214668
X-Google-Thread: fc2a5,fa79a4692b8bb32d,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y19g2000prb.googlegroups.com!not-for-mail
From: lw1ecp <danyperez1@yahoo.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Problem with Pierce using thin crystals?
Date: Tue, 30 Nov 2010 15:06:36 -0800 (PST)
Organization: http://groups.google.com
Lines: 26
Message-ID: <0d524e33-475d-4746-890b-195430f408f2@y19g2000prb.googlegroups.com>
NNTP-Posting-Host: 200.63.166.81
Mime-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1291158396 29504 127.0.0.1 (30 Nov 2010 23:06:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 30 Nov 2010 23:06:36 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y19g2000prb.googlegroups.com; posting-host=200.63.166.81; posting-account=J2bTrwoAAAA_H4qq0GLh7EO3_dPJZX9j
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
 CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729; .NET CLR
1.1.4322),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4258

Hi!.
I built a basic Pierce oscillator: emitter to gnd, about 33pF at B and
C, xtal from B to C, 180kohm from B to C. Feed thru choke. x10 scope
probe at collector.
With 3, 6 or 10MHz xtals, I sweep Vcc from 1.5V onwards, no problem.
With 24MHz, or 22MHz (actually a 110MHz 5th overtone, oscillating here
at its natural f), at first the amplitude increases gradually with
increasing Vcc, the negative peak being far from saturating the
transistor. Suddenly, at some Vcc the amplitude increases to near
twice Vcc and the transistor saturates at the negative peak. Going
backwards with Vcc, I also find hysteresis in this behavior.
I tried a different transistor model with same results.
Frequency shifts a mere 100Hz when jumping amplitude, so it doesn't
seem the xtal is falling into some spurious mode.
If using 1.8kohm to feed the collector, I get a nasty
superregeneration envelope.
I have read thin quartzs must be driven with lower levels to avoid
mechanical damage. But could it be that high levels produce an
instantaneous (not temperature related) lowering of the series
resistance? (which in turn causes more drive, hence more R lowering,
etc.).
Just in case, I will try a Butler oscillator (tuned at the natural
frequency, not an overtone as usual) because it imposes much lower
drive, but I will be glad to hear if anybody had a similar experience
with the Pierce.
Many thanks!

From -4206119177204639428
X-Google-Thread: 241b302a50,fa79a4692b8bb32d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder3.cambriumusenet.nl!feed.tweaknews.nl!213.75.85.109.MISMATCH!newsfeed.kpn.net!pfeed09.wxs.nl!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: "Nordic Breeds" <wa4vzq@live.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Problem with Pierce using thin crystals?
Date: Tue, 30 Nov 2010 22:35:27 -0500

Organization: A noiseless patient Spider
Lines: 41
Message-ID: <id4fq4$r87$1@news.eternal-september.org>
References: <0d524e33-475d-4746-890b-195430f408f2@y19g2000prb.googlegroups.com>
Injection-Date: Wed, 1 Dec 2010 03:35:32 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="ShEd0pK7SRqHFw2826XTBQ";
     logging-data="27911"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/WTRxbZvA/xASTTuh1eNw/d6lmFSxgttU="
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18263
In-Reply-To: <0d524e33-475d-4746-890b-195430f408f2@y19g2000prb.googlegroups.com>
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
Cancel-Lock: sha1:6nCfhXOAWLQ/pk0xlQN3x37Wk/c=
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.homebrew:4259

"lw1ecp" <danyperez1@yahoo.com.ar> wrote in message
news:0d524e33-475d-4746-890b-195430f408f2@y19g2000prb.googlegroups.com...
> Hi!.
> I built a basic Pierce oscillator: emitter to gnd, about 33pF at B and
> C, xtal from B to C, 180kohm from B to C. Feed thru choke. x10 scope
> probe at collector.
> With 3, 6 or 10MHz xtals, I sweep Vcc from 1.5V onwards, no problem.
> With 24MHz, or 22MHz (actually a 110MHz 5th overtone, oscillating here
> at its natural f), at first the amplitude increases gradually with
> increasing Vcc, the negative peak being far from saturating the
> transistor. Suddenly, at some Vcc the amplitude increases to near
> twice Vcc and the transistor saturates at the negative peak. Going
> backwards with Vcc, I also find hysteresis in this behavior.
> I tried a different transistor model with same results.
> Frequency shifts a mere 100Hz when jumping amplitude, so it doesn't
> seem the xtal is falling into some spurious mode.
> If using 1.8kohm to feed the collector, I get a nasty
> superregeneration envelope.
> I have read thin quartzs must be driven with lower levels to avoid
> mechanical damage. But could it be that high levels produce an
> instantaneous (not temperature related) lowering of the series
> resistance? (which in turn causes more drive, hence more R lowering,
> etc.).
> Just in case, I will try a Butler oscillator (tuned at the natural
> frequency, not an overtone as usual) because it imposes much lower
> drive, but I will be glad to hear if anybody had a similar experience
> with the Pierce.
> Many thanks!

You might wish to consult the chapter on crystal oscillators in "Vacuum Tube Oscillators" by William A. Edson. In particular you should read 9.9 Power Output and Crystal Dissipation in the Pierce Oscillator. You might also wish to read the section on the Miller oscillator. Don't let the "vacuum tube" title scare you away as the book is really good at fundamentals. Do a Google search for this book. At one time, someone had graciously posted copy in Adobe format.

73, Dr. Barry L. Ornitz   wa4vzqNO@SPAMlive.com

From -2282163513818725611
X-Google-Thread: fc2a5,fa79a4692b8bb32d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p1g2000yqm.googlegroups.com!not-for-mail
From: lw1ecp <danyperez1@yahoo.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Problem with Pierce using thin crystals?
Date: Tue, 30 Nov 2010 21:45:00 -0800 (PST)
Organization: http://groups.google.com
Lines: 15
Message-ID: <af1cdabb-f0a4-4331-836a-5c6a674262ba@p1g2000yqm.googlegroups.com>
References: <0d524e33-475d-4746-890b-195430f408f2@y19g2000prb.googlegroups.com>
 <id4fq4$r87$1@news.eternal-september.org>
NNTP-Posting-Host: 190.139.177.153
Mime-Version: 1.0
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X-Trace: posting.google.com 1291182300 32163 127.0.0.1 (1 Dec 2010 05:45:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 1 Dec 2010 05:45:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p1g2000yqm.googlegroups.com; posting-host=190.139.177.153;
posting-account=J2bTrwoAAAA_H4qq0GLh7EO3_dPJZX9j
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; es-AR; rv:1.9.2.12)
 Gecko/20101026 Firefox/3.6.12,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4260

Barry, many thanks for suggesting this book!. Don't worry, I have a
great esteem towards vacuum tubes and their underlying time-defying
principles (after all, the book is just 4 years older than myself...).
Power applied to the crystal by a tube oscillator is surely higher
than in an equivalent solid state counterpart, but 50's xtals were
also bigger (e. g. FT-243 format) and with metal contact plates that I
guess contributed to dissipate heat as a side effect.
Honestly, it adresses the crystal dissipation from a frequency
stability viewpoint, not quite my present concern, but I have found
interesting material in different chapters for other projects at home,
such as induction heating, and analysis of intermittent behavior. And
now I admit I didn't understand the principle behind the Miller
oscillator.
Ok, I will do some more experimenting and web search, and will
eventually post the results.

```
From 7543577850578227693
X-Google-Thread: 108122,bb01dda052860ff7,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,bb01dda052860ff7,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,bb01dda052860ff7,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,bb01dda052860ff7,start
X-Google-NewGroupId: yes
X-Google-Thread: 10e8ad,bb01dda052860ff7,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,bb01dda052860ff7,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf6,gid8f86f75953,gida4a23d5f6
3,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1288591200@panix.com>
Followup-To: poster
Date: 1 Dec 2010 02:00:02 -0500
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Jan 2011 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1291186801@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1291186802 10812 166.84.1.2 (1 Dec 2010 07:00:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 1 Dec 2010 07:00:02 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Xref: g2news2.google.com rec.radio.amateur.antenna:21379 rec.radio.amateur.dx:848
rec.radio.amateur.equipment:2579 rec.radio.amateur.homebrew:4261
rec.radio.amateur.misc:5859 rec.radio.amateur.policy:31993
rec.radio.amateur.space:435 rec.radio.info:2002

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
```

URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From -2436120365066312655
X-Google-Thread: fc2a5,24b7ad34a23baf1c,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!goblin3!goblin.stu.neva.ru!gin-ad1-
unet1.teleglobe.net!news-out1.kabelfoon.nl!newsfeed.kabelfoon.nl!
```

```
xindi.nntp.kabelfoon.nl!feeder.news-service.com!ecngs!feeder.ecngs.de!
Xl.tags.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!
local2.nntp.ams.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 01 Dec 2010 17:08:24 -0600
From: soasuaftito <soasuaftito.73c8bf9@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Hey all
Date: Wed, 1 Dec 2010 18:20:58 +0000
Message-ID: <soasuaftito.73c8bf9@radiobanter.com>
Organization: RadioBanter.com
Lines: 12
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
ucd6ackTvFJJoCmXfgsN7tjRlpAtA5+JJPQwfD2G9D4VQ5fnHpS4X2WqCUBxowi3TqEhxgEPAJwL+eu!
rhvRzraAAkGvpbAEp6WMDpye5I4/jWOLatUmVXNqqd/rnO0JAkhxjS1viMq+KT/0vM1ChlL+SSlQ!
0zwEIjjWrvo=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 5
X-Original-Bytes: 1094
Xref: g2news2.google.com rec.radio.amateur.homebrew:4262
```

hey everyone.

Is this the introduction section?

This is actually the first forum I ever joined, feels good to be here,
hope I can be a part of this community.

--
soasuaftito

```
From -7627346010673716264
X-Google-Thread: fc2a5,24b7ad34a23baf1c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!de-l.enfer-du-
nord.net!feeder1.enfer-du-nord.net!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: "Nordic Breeds" <wa4vzq@live.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hey all
Date: Wed, 1 Dec 2010 22:12:40 -0500
```

Organization: A noiseless patient Spider
Lines: 44
Message-ID: <id72r7$2f2$1@news.eternal-september.org>
References: <soasuaftito.73c8bf9@radiobanter.com>
Injection-Date: Thu, 2 Dec 2010 03:12:39 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="ShEd0pK7SRqHFw2826XTBQ";
logging-data="2530"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX19QAbxDN8cOk6nvaFBdAUVhFAtKsh6PNXA="
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18263
In-Reply-To: <soasuaftito.73c8bf9@radiobanter.com>
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
Cancel-Lock: sha1:9aPSmdzL+3uc5koISf6cRAjNVjg=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3967

"soasuaftito" <soasuaftito.73c8bf9@radiobanter.com> wrote in message news:soasuaftito.73c8bf9@radiobanter.com...

> hey everyone.
>
> Is this the introduction section?
>
> This is actually the first forum I ever joined, feels good to be here,
> hope I can be a part of this community.

Actually this is not a forum although to a newcomer it may appear as one. It is actually a Usenet newsgroup for amateur radio operators who build their own radio equipment (homebrew). If you are into brewing beer at home, this is not the newsgroup for you. But if you are a ham radio operator who currently builds his own radio equipment, or one who wishes to begin, let me say - welcome to the group!

It might be a good idea to understand how a Usenet newsgroup operates, so a little reading on the subject is in order. Start with a Google search. When Usenet first began, news about ham radio was one of the earliest groups. I first began using Usenet in 1983 and have continued sporadically ever since. Usenet predates the Internet, by the way. As traffic grew, more newsgroups were added to allow readers to pick specific groups where certain topics were discussed. I have no idea how many newsgroups exist today, but the number is well over 300,000, most of which have no traffic. The ham radio newsgroups usually have a moderate amount of activity, especially the rec.radio.amateur.antenna newsgroup. You will run into newly licensed hams, to those with much more than my own 46 years as a ham.

If you have technical questions, Usenet is a good place to get answers. You will find readers that have little experience to real experts in particular areas. Beginners are always welcome on Usenet as we all were beginners once. We also have a truly international base of readers too, much as the hobby of amateur radio has hams from almost every country.

So welcome to Usenet and welcome to amateur radio homebrewing. And if brewing beer is more to your taste, try the rec.crafts.brewing newsgroup.

73, Barry Dr. Barry L. Ornitz WA4VZQ
wa4vzqNO@SPAMlive.com remove the NO SPAM to reply

From 1081980178165744324
X-Google-Thread: fc2a5,24b7ad34a23baf1c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: david <none@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hey all
Date: Thu, 2 Dec 2010 11:42:17 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 15
Message-ID: <id80mo$g3t$1@news.eternal-september.org>
References: <soasuaftito.73c8bf9@radiobanter.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Injection-Date: Thu, 2 Dec 2010 11:42:17 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="j6YNSx4ZzkGtILp30gi9hg";
logging-data="16509"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX18wunlKOi83eKUEYidd8ci+"
Cancel-Lock: sha1:cy7a+hy3ABfh2tebz/jL6pNGBBU=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4265

On Wed, 01 Dec 2010 18:20:58 +0000, soasuaftito rearranged some electrons
to say:

> hey everyone.
>
> Is this the introduction section?
>
> This is actually the first forum I ever joined, feels good to be here,
> hope I can be a part of this community.

All radiobanter.com is doing is hijacking Usenet newsgroups, and making
you "think" that they have a bunch of active forums.

Go directly to Usenet with a newsreader, and skip all the ads that
radiobanter.com puts up.

From 8386907339576987488
X-Google-Thread: fc2a5,24b7ad34a23baf1c
X-Google-NewGroupId: yes

```
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news7
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hey all
Date: Thu, 02 Dec 2010 21:18:08 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 26
Message-ID: <id9ggr0cc4@news7.newsguy.com>
References: <soasuaftito.73c8bf9@radiobanter.com> <id80mo$g3t$1@news.eternal-
september.org>
NNTP-Posting-Host: pfcd497459c34f1fff380e6487ea09fe197193a9c72dc3bcc.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
In-Reply-To: <id80mo$g3t$1@news.eternal-september.org>
X-Antivirus: avast! (VPS 101202-1, 12/02/2010), Outbound message
X-Antivirus-Status: Clean
Xref: g2news2.google.com rec.radio.amateur.homebrew:4266

david wrote:
> On Wed, 01 Dec 2010 18:20:58 +0000, soasuaftito rearranged some electrons
> to say:
>
>> hey everyone.
>>
>> Is this the introduction section?
>>
>> This is actually the first forum I ever joined, feels good to be here,
>> hope I can be a part of this community.
>
> All radiobanter.com is doing is hijacking Usenet newsgroups, and making
> you "think" that they have a bunch of active forums.
>
> Go directly to Usenet with a newsreader, and skip all the ads that
> radiobanter.com puts up.

People whine because Usenet is losing participants and people whine when
HTML net portals encourage activity.

I've come to the conclusion that 'people whine a lot'.

With that said...carry on soasuafrito.  And welcome to the venue.

-Bill



From -4972282525530169560
```

```
X-Google-Thread: fc2a5,f8f78bd98d2eb20c,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!feed-
me.highwinds-media.com!cyclone02.ams2.highwinds-media.com!news.highwinds-
media.com!npeersf01.ams.highwinds-media.com!newsfe28.ams2.POSTED!00000000!not-for-
mail
From: "Ray Joham" <rayjoham@knob.twiddle.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Crystal Wanted
Lines: 5
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
X-RFC2646: Format=Flowed; Original
Message-ID: <ZqsKo.10279$784.5792@newsfe28.ams2>
NNTP-Posting-Host: 86.15.200.53
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe28.ams2 1291473721 86.15.200.53 (Sat, 04 Dec 2010 14:42:01 UTC)
NNTP-Posting-Date: Sat, 04 Dec 2010 14:42:01 UTC
Organization: virginmedia.com
Date: Sat, 4 Dec 2010 14:41:56 -0000
Xref: g2news2.google.com rec.radio.amateur.homebrew:4267
```

Does anyone have an 18.895 MHz crystal in HC6/U
gathering dust and wish to sell or swap?
Any assistance would be greatly appreciated.

```
From -1817277735672360290
X-Google-Thread: fc2a5,f8f78bd98d2eb20c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!feeder.news-
service.com!94.75.214.39.MISMATCH!aioe.org!not-for-mail
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Crystal Wanted
Date: Sun, 05 Dec 2010 00:36:22 -0500
Organization: Aioe.org NNTP Server
Lines: 23
Message-ID: <fmmck-B20AD8.00362105122010@5ad64b5e.bb.sky.com>
References: <ZqsKo.10279$784.5792@newsfe28.ams2>
NNTP-Posting-Host: qV/imZJtxgKF1fTqadFsHw.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
```

```
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3971
```

In article <ZqsKo.10279$784.5792@newsfe28.ams2>,
 "Ray Joham" <rayjoham@knob.twiddle.com> wrote:

> Does anyone have an 18.895 MHz crystal in HC6/U
> gathering dust and wish to sell or swap?
> Any assistance would be greatly appreciated.

Ray-

I'm guessing that frequency could be used to convert one of the bands on a Heathkit SB or HW 100 series transceiver to 10 MHz.

If you're willing to accept a dial error, a crystal might work if it is as much as 350 KHz lower in frequency. I think that would move the tuning range from 10.0 to 10.5 MHz down to 9.65 to 10.15 MHz. Or a crystal up to 100 KHz higher would move the range to 10.10 to 10.60 MHz.

Otherwise you will need to order a custom crystal. The major crystal companies should have data on the Heath heterodyne crystals if you explain what you want to do.

Fred
K4DII

```
From -3613889692668382491
X-Google-Thread: fc2a5,f8f78bd98d2eb20c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!
cyclone02.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf01.ams.highwinds-media.com!newsfe05.ams2.POSTED!00000000!not-for-mail
From: "Ray Joham" <rayjoham@knob.twiddle.com>
Newsgroups: rec.radio.amateur.homebrew
References: <ZqsKo.10279$784.5792@newsfe28.ams2> <fmmck-
B20AD8.00362105122010@5ad64b5e.bb.sky.com>
Subject: Re: Crystal Wanted
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
X-RFC2646: Format=Flowed; Original
Message-ID: <rDOKo.24415$xk5.6971@newsfe05.ams2>
NNTP-Posting-Host: 86.15.200.53
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe05.ams2 1291564631 86.15.200.53 (Sun, 05 Dec 2010 15:57:11 UTC)
NNTP-Posting-Date: Sun, 05 Dec 2010 15:57:11 UTC
```

Organization: virginmedia.com
Date: Sun, 5 Dec 2010 15:57:09 -0000
Xref: g2news2.google.com rec.radio.amateur.homebrew:4269

Many thanks Fred, as you so rightly deduced,
I want to use the crystal to convert the 10.100-10.150Mhz
band down to within the 500Khz tunable range of 8.835-8.395Mhz,
It will be used in a bank of other ex-Heathkit crystals in a multiband
converter running into a homebrew receiver.
I will see what some crystal manufacturers have to offer.

From -8606739006241764005
X-Google-Thread: fc2a5,f8f78bd98d2eb20c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
newsfeed.straub-nv.de!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: highlandham <highlandham_nospam@rfburns.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Crystal Wanted
Date: Sun, 05 Dec 2010 16:55:14 +0000
Organization: A noiseless patient Spider
Lines: 16
Message-ID: <idgg5r$7cc$1@news.eternal-september.org>
References: <ZqsKo.10279$784.5792@newsfe28.ams2> <fmmck-
B20AD8.00362105122010@5ad64b5e.bb.sky.com> <rDOKo.24415$xk5.6971@newsfe05.ams2>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sun, 5 Dec 2010 16:55:23 +0000 (UTC)
Injection-Info: mx01.eternal-september.org; posting-host="fiFpHfP2Jdo0rvd+FHY98A";
logging-data="7564"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX19qXm2pv0YbKmRk0gL2JF0J31LasmTJaBo="
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.1.15) Gecko/20101027
Thunderbird/3.0.10
In-Reply-To: <rDOKo.24415$xk5.6971@newsfe05.ams2>
Cancel-Lock: sha1:RSAyr/0oFZx4tiVKFezc2fnz8So=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4270

On 05/12/10 15:57, Ray Joham wrote:
> Many thanks Fred, as you so rightly deduced,
> I want to use the crystal to convert the 10.100-10.150Mhz
> band down to within the 500Khz tunable range of 8.835-8.395Mhz,
> It will be used in a bank of other ex-Heathkit crystals in a multiband
> converter running into a homebrew receiver.
> I will see what some crystal manufacturers have to offer.
>
>

```
===============================
With your tuneable range ,for 10.100-10.150 MHz you can use any crystal
in the 18.495 to 18.985 MHz range ,probably even a low cost
microprocessor type.


Frank, GM0CSZ / KN6WH


From -3568516782963854825
X-Google-Thread: 241b302a50,f8f78bd98d2eb20c
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Crystal Wanted
Date: Sun, 05 Dec 2010 16:45:10 -0500
Organization: A noiseless patient Spider
Lines: 19
Message-ID: <idh157$c0n$1@news.eternal-september.org>
References: <ZqsKo.10279$784.5792@newsfe28.ams2> <fmmck-
B20AD8.00362105122010@5ad64b5e.bb.sky.com> <rDOKo.24415$xk5.6971@newsfe05.ams2>
<idgg5r$7cc$1@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sun, 5 Dec 2010 21:45:11 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="ga95wCPXxx6lhKl9uQSABQ";
     logging-data="12311"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+fjhlowoYwJ1jp+wp4Dxr0Hpaym2WYuV0="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.1.15) Gecko/20101027
Thunderbird/3.0.10
In-Reply-To: <idgg5r$7cc$1@news.eternal-september.org>
Cancel-Lock: sha1:Df+0HE8gOINwW5THunFrpfOgy+Y=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4271

On 12/05/2010 11:55 AM, highlandham wrote:
> On 05/12/10 15:57, Ray Joham wrote:
>> Many thanks Fred, as you so rightly deduced,
>> I want to use the crystal to convert the 10.100-10.150Mhz
>> band down to within the 500Khz tunable range of 8.835-8.395Mhz,
>> It will be used in a bank of other ex-Heathkit crystals in a multiband
>> converter running into a homebrew receiver.
>> I will see what some crystal manufacturers have to offer.
>>
>>
> ===============================
> With your tuneable range ,for 10.100-10.150 MHz you can use any crystal
> in the 18.495 to 18.985 MHz range ,probably even a low cost
> microprocessor type.
>
>
> Frank, GM0CSZ / KN6WH
Yes but it would be nice to include 10.0000 somewhere in the range to
get WWV.


From 5101787279686674906
X-Google-Thread: fc2a5,f8f78bd98d2eb20c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!feeder.news-
service.com!cyclone02.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf01.ams.highwinds-media.com!newsfe24.ams2.POSTED!00000000!not-for-mail
From: "Ray Joham" <rayjoham@knob.twiddle.com>
Newsgroups: rec.radio.amateur.homebrew
References: <ZqsKo.10279$784.5792@newsfe28.ams2> <fmmck-
B20AD8.00362105122010@5ad64b5e.bb.sky.com> <rDOKo.24415$xk5.6971@newsfe05.ams2>
<idgg5r$7cc$1@news.eternal-september.org> <idh157$c0n$1@news.eternal-
september.org>
Subject: Re: Crystal Wanted
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
X-RFC2646: Format=Flowed; Response
Message-ID: <gvUKo.8943$UF5.5060@newsfe24.ams2>
NNTP-Posting-Host: 86.15.200.53
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe24.ams2 1291588684 86.15.200.53 (Sun, 05 Dec 2010 22:38:04 UTC)
NNTP-Posting-Date: Sun, 05 Dec 2010 22:38:04 UTC
Organization: virginmedia.com
Date: Sun, 5 Dec 2010 22:38:01 -0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:3975


"Kenneth Scharf" <wa2mze@bellsouth.net> wrote in message
news:idh157$c0n$1@news.eternal-september.org...
> On 12/05/2010 11:55 AM, highlandham wrote:
>> On 05/12/10 15:57, Ray Joham wrote:
>>> Many thanks Fred, as you so rightly deduced,
>>> I want to use the crystal to convert the 10.100-10.150Mhz
>>> band down to within the 500Khz tunable range of 8.835-8.395Mhz,
>>> It will be used in a bank of other ex-Heathkit crystals in a multiband
>>> converter running into a homebrew receiver.
>>> I will see what some crystal manufacturers have to offer.
>>>
>>>
>> ===============================
>> With your tuneable range ,for 10.100-10.150 MHz you can use any crystal
```

>> in the 18.495 to 18.985 MHz range ,probably even a low cost
>> microprocessor type.

Using the crystal for 18.495 MHz would only permit tuning between 9.6 -
10.1MHz.
The higher 18.985 MHz would be better giving 10.09 -10.59 MHz.
The ideal crystal frequency is still 18.895 MHz. (10.0-10.5 MHz)

From 5008045006227029455
X-Google-Thread: fc2a5,8fb7b4c0a1131e3a,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-02.dc1.easynews.com.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: FS: Books
From: Eugene Rippen <soundval@muchstuff.com>
Organization: Your Company
Message-ID: <Xns9E46AEAAB2E80er7373@69.16.186.8>
User-Agent: Xnews/5.04.25
Lines: 32
X-Complaints-To: abuse@easynews.com
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Tue, 07 Dec 2010 01:10:22 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:4275

"Radio Transmitters", Department of the Navy, Air Force Manual 100-6.
Dated: 11-15-1957.
Good to very good condition.   173 pages. Pretty much a course o
n tube transmitters. $15.00 plus shipping

"UHF converters, their design and how they work". (1953) A Howard W. Sams
Photo fact publication UC-1. 41 letter size pages.
This is about converting the new (at that time) UHF TV signals to the
existing VHF frequencies. Good condition, some fraying on the binding
edge.
$3.00 plus shipping.

"CQ Anthology No. 102-1. The best of CQ 1945-1952" 160 pages. Good
condition. $8.00 plus shipping.

"Servicing by Signal Substition". (1947) Pecision Apperatus Company,
Inc. 99
pages. Came origionally with an E-200-C Signal Generator. Good
condition.
$5.00 plus shipping.

"VHF for the Radio Amateur". Frank C. Jones W6AJF. (1961) 208 pages.
VERY
good condition. $15.00 plus shipping.

Shipping will be $4.00 for the first book plus $1.00 for each additional
book shipped with the first.

PayPal, personal check or USPS money order.

Eugene Rippen, WB6SZS
Auburn, CA 95603

```
From 4325221615574774047
X-Google-Thread: fcc6e,8b1deba82be58f92,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,8b1deba82be58f92,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,8b1deba82be58f92,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,8b1deba82be58f92,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,8b1deba82be58f92,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,8b1deba82be58f92,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,8b1deba82be58f92,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf
6,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.249.MISMATCH!news-out.readnews.com!transit3.readnews.com!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1289113501@panix.com>
Followup-To: poster
Date: 7 Dec 2010 02:05:03 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Jan 2011 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1291705500@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1291705503 27612 166.84.1.2 (7 Dec 2010 07:05:03 GMT)
```

X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 7 Dec 2010 07:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news2.google.com rec.radio.amateur.antenna:21447 rec.radio.amateur.dx:858 rec.radio.amateur.equipment:2593 rec.radio.amateur.homebrew:4276 rec.radio.amateur.misc:5881 rec.radio.amateur.policy:32053 rec.radio.info:2021

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |
rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

```
http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.




From 3614659007781100134
X-Google-Thread: fc2a5,c1a2d70ff3d73d8d,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!news-2.mpls.iphouse.net.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hola.
From: Bert Hyman <bert@iphouse.com>
References: <flarginfereen.7457218@radiobanter.com>
Organization: Not that you'd notice
Message-ID: <Xns9E4874817B463VeebleFetzer@216.250.188.141>
User-Agent: Xnews/2006.08.24
Date: 08 Dec 2010 17:27:10 GMT
Lines: 14
NNTP-Posting-Date: 08 Dec 2010 11:27:10 CST
NNTP-Posting-Host: 1eadcc00.newsreader.iphouse.net
X-Trace: DXC=DeBTJ9\Nb7ST?
5gDT9;hP^Vn\Tj8`^Bb[eHS>e[L>83Pd7NHm;YeTLYc230oU7d71QX7@2h;nGb4]H<fZ7>DEaUW
X-Complaints-To: abuse@iphouse.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:4279

In news:flarginfereen.7457218@radiobanter.com flarginfereen
<flarginfereen.7457218@radiobanter.com> wrote:

>
> Hey guys, is this the introduction section? first time on a forum.
> glad to be here. first post! :)

This isn't a "forum," it's a USENET newsgroup.

The fact that you're reading it through some Web site doesn't change
that.

--
Bert Hyman    W0RSB    St. Paul, MN  bert@iphouse.com


From 8311268901155291809
X-Google-Thread: fc2a5,c1a2d70ff3d73d8d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!goblin3!goblin.stu.neva.ru!
```

```
citadel.nobulus.com!newsfeed.ision.net!newsfeed2.easynews.net!ision!
kanaga.switch.ch!switch.ch!newsfeed3.funet.fi!newsfeeds.funet.fi!
feeder2.news.elisa.fi!feeder.erje.net!border3.nntp.ams.giganews.com!
Xl.tags.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!
local2.nntp.ams.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 08 Dec 2010 17:08:26 -0600
From: flarginfereen <flarginfereen.745c678@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Hola.
Date: Wed, 8 Dec 2010 18:54:30 +0000
Message-ID: <flarginfereen.745c678@radiobanter.com>
Organization: RadioBanter.com
Lines: 8
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-OdYH/3phTPe5jJ3eUqCQ3ssIdh3zYvPGYXmt024ga41/
yaynfKffa8yldSXo5Gvfq5aTgl2O5OM3aOc!BlI9L7z5p2Dt2nRTa0YHEbX/
4QW2Onk3K1Mm7VYejHSAlTWeO7RwJt8WwxJTPgfyO/MYVE7G05pq!fGAB4g0C6pmMaQ==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 1
X-Original-Bytes: 1037
Xref: g2news2.google.com rec.radio.amateur.homebrew:4280
```

Hey guys, is this the introduction section? first time on a forum. glad to be here. first post! :)

--
flarginfereen

```
From -1624396154396759605
X-Google-Thread: fc2a5,c1a2d70ff3d73d8d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe14.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.1.15) Gecko/20101027
Thunderbird/3.0.10
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hola.
References: <flarginfereen.745c678@radiobanter.com>
```

In-Reply-To: <flarginfereen.745c678@radiobanter.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 13
Message-ID: <WZVLo.1279$P21.1034@newsfe14.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Thu, 09 Dec 2010 01:08:06 UTC
Organization: TeraNews.com
Date: Wed, 08 Dec 2010 19:08:06 -0600
Xref: g2news2.google.com rec.radio.amateur.homebrew:4282

On 12/08/2010 12:54 PM, flarginfereen wrote:
> Hey guys, is this the introduction section? first time on a forum. glad
> to be here. first post! :)
>
>
>
>

No it's not

you posted here this morning

sheesh!

From 8252934684823935l2
X-Google-Thread: fc2a5,e2a4a1fe7dba8da2,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!goblin3!goblin.stu.neva.ru!gin-ad1-unet1.teleglobe.net!news-out1.kabelfoon.nl!newsfeed.kabelfoon.nl!
xindi.nntp.kabelfoon.nl!feeder.news-service.com!ecngs!feeder.ecngs.de!
Xl.tags.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!
local2.nntp.ams.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 10 Dec 2010 11:08:33 -0600
From: narnia <narnia.7481518@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: hey
Date: Fri, 10 Dec 2010 16:48:54 +0000
Message-ID: <narnia.7481518@radiobanter.com>
Organization: RadioBanter.com
Lines: 7
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-iOiPzVAOpi7JjsND5H2vmXKiokKYfrY0tg9ixQYxZ8+EfnTlI/QxM2z2DCNO/
DG5I2usq9Eho8yD3wg!5lqu2/DFYAoKQJLtXWanlB4rI53+
+sSUDK7ji3l+o13fwh2fAfVzM7gizjEB0h4JeXkxxmZp6U3n!bl2g
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly

X-Postfilter: 1.3.40
X-Original-Lines: 1
X-Original-Bytes: 943
Xref: g2news2.google.com rec.radio.amateur.homebrew:4286

hi guys, great to be a part of this community

--
narnia

From 6753381521865593784
X-Google-Thread: fc2a5,e2a4a1fe7dba8da2
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!bloom-beacon.mit.edu!micro-heart-of-gold.mit.edu!
nntp.club.cc.cmu.edu!news.unit0.net!news.osn.de!diablo2.news.osn.de!
feeder.erje.net!border3.nntp.ams.giganews.com!Xl.tags.giganews.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!local2.nntp.ams.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 10 Dec 2010 17:08:23 -0600
From: narnia <narnia.7486978@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: hey
Date: Fri, 10 Dec 2010 17:37:15 +0000
Message-ID: <narnia.7486978@radiobanter.com>
Organization: RadioBanter.com
Lines: 7
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
daO8GvroiEcXlkiIo5GO+5xaD2GtYslJj0CRxL00KrwNnZip6A24TIuq3qcLrXPVOgzadEFe7CDSo4e!
MJ45EXwPUQNVdXQfaX7VHjW1g6e84P3pwAk/Q8PK2h4HcNJP+4Phy7xIPdT7Is/MA5T34bRU7yE4!PEFe
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 1
X-Original-Bytes: 921
Xref: g2news2.google.com rec.radio.amateur.homebrew:4287

wooooooooooh I'm here!

```
--
narnia


From 5941137941237379679
X-Google-Thread: fc2a5,24b7ad34a23baf1c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
news.acm.uiuc.edu!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hey all
Date: Sat, 11 Dec 2010 01:27:00 -0500
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 60
Sender: et472@72.0.192.108
Message-ID: <Pine.LNX.4.64.1012110117390.21951@darkstar.example.net>
References: <soasuaftito.73c8bf9@radiobanter.com> <id80mo$g3t$1@news.eternal-
september.org>
 <id9ggr0cc4@news7.newsguy.com>
NNTP-Posting-Host: 72.0.192.108
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1292048912 9034 72.0.192.108 (11 Dec 2010 06:28:32 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 11 Dec 2010 06:28:32 GMT
In-Reply-To: <id9ggr0cc4@news7.newsguy.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:3991

On Thu, 2 Dec 2010, Bill M wrote:

> david wrote:
>> On Wed, 01 Dec 2010 18:20:58 +0000, soasuaftito rearranged some electrons
>> to say:
>>
>>> hey everyone.
>>>
>>> Is this the introduction section?
>>>
>>> This is actually the first forum I ever joined, feels good to be here,
>>> hope I can be a part of this community.
>>
>> All radiobanter.com is doing is hijacking Usenet newsgroups, and making you
>> "think" that they have a bunch of active forums.
>> Go directly to Usenet with a newsreader, and skip all the ads that
>> radiobanter.com puts up.
>
> People whine because Usenet is losing participants and people whine when HTML
> net portals encourage activity.
>
Those "portals" often don't indicate where someone ends up, they want to
```

create the illusion of being local to the website. Google is bad enough, not quite hiding it but too easily trying to create an atmosphere that covers up the fact that someone is reading Usenet and would be posting to it, compounded by their "groups" that the interface seems to favor.

These messages are a clear example. Clueless people are posting, because they can. Two or three in a week's time. They don't know, or don't care, where they are, none of the messages indicate they have any interest in building amateur radio equipment, or even that they know where they are.

There is nothing to indicate these posters are actually trying to communicate about amateur radio. I can't figure out the purpose, but it's not been uncommon to see such messages in recent years, as if they hope to get a response for some reason yet to be fathomed. And people are actually falling for them, greeting them.

I don't see much spam, but it's noteworthy that not only is there spam I see here this week, but one instance of it is even originating from radiobanter.

Over in rec.radio.amateur.equipment, there are suddenly two posts, oddly similar, that have nothing to do with amateur radio, but about playing hobby DJ, and both posts derive from radiobanter. Oddly, since they both seem similar, one wonders if the same poster posted twice. Odd how suddenly there are two posts in a week about broadcasting in a newsgroup about amateur radio equipment.

This radiobanter is clearly abusing usenet, since they have now set things up so any idiot can post, and they are indeed attracting the idiots.

Michael VE2BVW

> I've come to the conclusion that 'people whine a lot'. >
> With that said...carry on soasuafrito. And welcome to the venue.
>
> -Bill
>
>

From -3861183822573896307
X-Google-Thread: fc2a5,e2a4a1fe7dba8da2
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!goblin1!goblin.stu.neva.ru!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: david <none@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: hey
Date: Sat, 11 Dec 2010 16:05:01 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 6

```
Message-ID: <ie07fd$rjf$1@news.eternal-september.org>
References: <narnia.7481518@radiobanter.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Injection-Date: Sat, 11 Dec 2010 16:05:01 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="j6YNSx4ZzkGtILp30gi9hg";
	logging-data="28271"; mail-complaints-to="abuse@eternal-september.org";
	posting-account="U2FsdGVkX18ibPjJ1rOQ0DggePAbX8OM"
Cancel-Lock: sha1:iiJUwMNQbarES3g10XF/XW0tK7g=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4290
```

On Fri, 10 Dec 2010 16:48:54 +0000, narnia rearranged some electrons to say:

> hi guys, great to be a part of this community

You're on a Usenet newsgroup, not a web forum.

```
From 8013980086131943747
X-Google-Thread: fc2a5,e2a4a1fe7dba8da2
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!eternal-
september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: david <none@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: hey
Date: Sat, 11 Dec 2010 16:05:01 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 6
Message-ID: <ie07fd$rje$3@news.eternal-september.org>
References: <narnia.7481518@radiobanter.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Injection-Date: Sat, 11 Dec 2010 16:05:01 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="j6YNSx4ZzkGtILp30gi9hg";
	logging-data="28270"; mail-complaints-to="abuse@eternal-september.org";
	posting-account="U2FsdGVkX1/9bioAw2ziyQWAVq+v09j8"
Cancel-Lock: sha1:0zloOTZ8neoHmfWNfiGmx5DruHw=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4289
```

On Fri, 10 Dec 2010 16:48:54 +0000, narnia rearranged some electrons to say:

> hi guys, great to be a part of this community

You're on a Usenet newsgroup, not a web forum.

```
From 2122283807846120141
X-Google-Thread: fc2a5,24b7ad34a23baf1c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news3.google.com!fu-berlin.de!uni-
berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <knock_yourself_out@example.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hey all
Date: 11 Dec 2010 16:47:14 GMT
Lines: 19
Message-ID: <slrnig7aoi.29v5.knock_yourself_out@shell.config.com>
References: <soasuaftito.73c8bf9@radiobanter.com>
 <id80mo$g3t$1@news.eternal-september.org> <id9ggr0cc4@news7.newsguy.com>
 <Pine.LNX.4.64.1012110117390.21951@darkstar.example.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: individual.net 92crbFP2jWLp0sWnnAGV8gGxn8RSOGzUQFCQOEClWpYyNu22vr
Cancel-Lock: sha1:m+XJD0TjNzqsHBFqQG2Wusc7+PM=
User-Agent: slrn/0.9.9p1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3994

On Sat, 11 Dec 2010 01:27:00 -0500, Michael Black wrote:
>
> This radiobanter is clearly abusing usenet, since they have now set things
> up so any idiot can post, and they are indeed attracting the idiots.

I have my killfile set to kill all _original_ posts from both Google and
XXXXXbanter.  (Those clowns also have a photobanter and gawd knows what
else.)  I'm willing to see subsequent followups because they may contain
either
     1. genuine on-topic content (not often...)
 -or-
     B. humorus ravings (from either side.)

See the .sig:
Jonesy
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    * Killfiling google & XXXXbanter.com: jonz.net/ng.htm


From 4847200808784149001
X-Google-Thread: fc2a5,cd25aea7ac747b0d,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!217.73.144.44.MISMATCH!ecngs!feeder.ecngs.de!
Xl.tags.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!
```

local2.nntp.ams.giganews.com!nntp.brightview.co.uk!news.brightview.co.uk.POSTED!
not-for-mail
NNTP-Posting-Date: Sun, 12 Dec 2010 05:17:51 -0600
From: "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Connecting Two RF Connectors in Metal Enclosure
Date: Sun, 12 Dec 2010 11:17:49 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <Pa6dnShLPOjCMpnQnZ2dnUVZ8lqdnZ2d@brightview.co.uk>
Lines: 23
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-pOuEXRkPJ2ve8wv453T7jc/
HSHKJM1tc80r77dWpGrE73zwYoajwMSdf13X81Ocp3kaj7lwcZcv24wK!BV4QIIsbC9/
EhBrtL+1p2S5hnTbnm5PoJbcfZEcZKLyGyv4Zw0ZlYCL1AoG0AnyJrF0FAxtwN8+p!
nn0VrOGRGT2WMTnGBstDRAhrvm8=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1816
Xref: g2news1.google.com rec.radio.amateur.homebrew:3995

Hello all,

I am trying to put a co-ax line through the wall of my shack. I purchased two chassis mount N-type connectors a while ago, one for inside and one for outside the shack. As you will know these connectors have a solderable centre pin for the co-ax inner conductor and seem to rely on the chassis for the outer connection.

My question is if I use a metal enclosure to mount these N connectors how do I connect the centre pins together. Do I use co-ax with the braid disconnected at both ends, or one end, or do I use wire, or just put the chassis mount N-types to one side and buy some in-line N-types?

I am not too worried about the mechanics of putting the enclosure on the wall.

Any help would be much appreciated.

73
JOHN

From -4276893065406416577
X-Google-Thread: fc2a5,cd25aea7ac747b0d

X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder2.cambriumusenet.nl!
feeder1.cambriumusenet.nl!feed.tweaknews.nl!194.134.4.91.MISMATCH!news2.euro.net!
newsgate.cistron.nl!newsgate.news.xs4all.nl!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Connecting Two RF Connectors in Metal Enclosure
References: <Pa6dnShLPOjCMpnQnZ2dnUVZ8lqdnZ2d@brightview.co.uk>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrnig9h70.3k4.nomail@xs8.xs4all.nl>
Date: 12 Dec 2010 12:49:36 GMT
Lines: 29
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1292158176 news.xs4all.nl 81481 [::ffff:194.109.21.8]:37811
X-Complaints-To: abuse@xs4all.nl
Xref: g2news2.google.com rec.radio.amateur.homebrew:4293

John W <jrw> wrote:
> Hello all,
>
> I am trying to put a co-ax line through the wall of my shack. I purchased
> two chassis mount N-type connectors a while ago, one for inside and one for
> outside the shack. As you will know these connectors have a solderable
> centre pin for the co-ax inner conductor and seem to rely on the chassis for
> the outer connection.
>
> My question is if I use a metal enclosure to mount these N connectors how do
> I connect the centre pins together. Do I use co-ax with the braid
> disconnected at both ends, or one end, or do I use wire, or just put the
> chassis mount N-types to one side and buy some in-line N-types?
>
> I am not too worried about the mechanics of putting the enclosure on the
> wall.
>
> Any help would be much appreciated.

You don't mention what frequency you are operating on; that makes
quite a bit of difference.

Also what the distance between the two connectors is.

Anything that is small compared to the wavelength of the signal you
are trying to transfer is not so critical.

So on 3.5 MHz you may be able to use a simple wire, while on 3.5 GHz
is is really important to maintain coaxiality.

From 4982394456930301904
X-Google-Thread: fc2a5,cd25aea7ac747b0d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!de-l.enfer-du-nord.net!feeder1.enfer-du-nord.net!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: J. Todd <jetodd@bcsupernet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Connecting Two RF Connectors in Metal Enclosure
Date: Sun, 12 Dec 2010 07:35:49 -0800
Organization: A noiseless patient Spider
Lines: 34
Message-ID: <MPG.276e8bb01ca7b678989683@news.eternal-september.org>
References: <Pa6dnShLPOjCMpnQnZ2dnUVZ8lqdnZ2d@brightview.co.uk>
<slrnig9h70.3k4.nomail@xs8.xs4all.nl>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-15"
Content-Transfer-Encoding: 7bit
Injection-Info: mx01.eternal-september.org; posting-host="Oz5qsg0NUD/yoapMcsJxGg";
    logging-data="27452"; mail-complaints-to="abuse@eternal-september.org";
    posting-account="U2FsdGVkX1/o+eLI6goThQCpCd39GOoQ"
User-Agent: MicroPlanet-Gravity/2.60.2060
Cancel-Lock: sha1:fdRR7tgBNvDObYfROK2BB4dC7G4=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4294

In article <slrnig9h70.3k4.nomail@xs8.xs4all.nl>, nomail@example.com says...
> John W <jrw> wrote:
> > Hello all,
> >
> > I am trying to put a co-ax line through the wall of my shack. I purchased
> > two chassis mount N-type connectors a while ago, one for inside and one for
> > outside the shack. As you will know these connectors have a solderable
> > centre pin for the co-ax inner conductor and seem to rely on the chassis for
> > the outer connection.
> >
> > My question is if I use a metal enclosure to mount these N connectors how do
> > I connect the centre pins together. Do I use co-ax with the braid
> > disconnected at both ends, or one end, or do I use wire, or just put the
> > chassis mount N-types to one side and buy some in-line N-types?
> >
> > I am not too worried about the mechanics of putting the enclosure on the
> > wall.
> >
> > Any help would be much appreciated.
>
> You don't mention what frequency you are operating on; that makes
> quite a bit of difference.
>
> Also what the distance between the two connectors is.
>

```
> Anything that is small compared to the wavelength of the signal you
> are trying to transfer is not so critical.
>
> So on 3.5 MHz you may be able to use a simple wire, while on 3.5 GHz
> is is really important to maintain coaxiality.
>
    You incur loss in each connector (.2dB?). I would run the co-ax
through the wall and then put the fitting on inside.


From -1299661339051266003
X-Google-Thread: fc2a5,cd25aea7ac747b0d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe23.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.13) Gecko/20101208
Thunderbird/3.1.7
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Connecting Two RF Connectors in Metal Enclosure
References: <Pa6dnShLPOjCMpnQnZ2dnUVZ8lqdnZ2d@brightview.co.uk>
<slrnig9h70.3k4.nomail@xs8.xs4all.nl> <MPG.276e8bb01ca7b678989683@news.eternal-
september.org>
In-Reply-To: <MPG.276e8bb01ca7b678989683@news.eternal-september.org>
Content-Type: text/plain; charset=ISO-8859-15; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 39
Message-ID: <us8No.11326$uS7.10114@newsfe23.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Sun, 12 Dec 2010 18:25:30 UTC
Organization: TeraNews.com
Date: Sun, 12 Dec 2010 12:25:30 -0600
Xref: g2news1.google.com rec.radio.amateur.homebrew:3998

On 12/12/2010 09:35 AM, J. Todd wrote:
> In article<slrnig9h70.3k4.nomail@xs8.xs4all.nl>, nomail@example.com
> says...
>> John W<jrw>  wrote:
>>> Hello all,
>>>
>>> I am trying to put a co-ax line through the wall of my shack.  I purchased
>>> two chassis mount N-type connectors a while ago, one for inside and one for
>>> outside the shack.  As you will know these connectors have a solderable
>>> centre pin for the co-ax inner conductor and seem to rely on the chassis for
>>> the outer connection.
>>>
>>> My question is if I use a metal enclosure to mount these N connectors how do
>>> I connect the centre pins together.  Do I use co-ax with the braid
>>> disconnected at both ends, or one end, or do I use wire, or just put the
```

>>> chassis mount N-types to one side and buy some in-line N-types?
>>>
>>> I am not too worried about the mechanics of putting the enclosure on the
>>> wall.
>>>
>>> Any help would be much appreciated.
>>
>> You don't mention what frequency you are operating on; that makes
>> quite a bit of difference.
>>
>> Also what the distance between the two connectors is.
>>
>> Anything that is small compared to the wavelength of the signal you
>> are trying to transfer is not so critical.
>>
>> So on 3.5 MHz you may be able to use a simple wire, while on 3.5 GHz
>> is is really important to maintain coaxiality.
>>
>   You incur loss in each connector (.2dB?). I would run the co-ax
> through the wall and then put the fitting on inside.

I'd skip that and run the coax through the wall with no fitting whatsoever

From 8480522633904807368
X-Google-Thread: fc2a5,cd25aea7ac747b0d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!STARBAND.NET-a2kHrUvQQWlmc!not-for-mail
From: Bruce Gordon <fast@btpost.net>
Newsgroups: rec.radio.amateur.homebrew
Mail-Copies-To: poster
Subject: Re: Connecting Two RF Connectors in Metal Enclosure
Organization: Bruce's Trading Post
References: <Pa6dnShLPOjCMpnQnZ2dnUVZ8lqdnZ2d@brightview.co.uk>
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
Date: Sun, 12 Dec 2010 10:00:57 -0900
Message-ID: <fast-9012F9.10005712122010@news.starband.net>
X-Complaints-To: abuse@usenetserver.com
Lines: 34
X-Trace: cef274d051ba231e5901f17898
Xref: g2news2.google.com rec.radio.amateur.homebrew:4296

In article <Pa6dnShLPOjCMpnQnZ2dnUVZ8lqdnZ2d@brightview.co.uk>,
 "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk> wrote:

> Hello all,
>

> I am trying to put a co-ax line through the wall of my shack. I purchased
> two chassis mount N-type connectors a while ago, one for inside and one for
> outside the shack. As you will know these connectors have a solderable
> centre pin for the co-ax inner conductor and seem to rely on the chassis for
> the outer connection.
>
> My question is if I use a metal enclosure to mount these N connectors how do
> I connect the centre pins together. Do I use co-ax with the braid
> disconnected at both ends, or one end, or do I use wire, or just put the
> chassis mount N-types to one side and buy some in-line N-types?
>
> I am not too worried about the mechanics of putting the enclosure on the
> wall.
>
> Any help would be much appreciated.
>
>
> 73
> JOHN

They make a flanged coax connector for RG type cable. You can put two of those back to back with enough coax to get you thru the wall. OR, You can just have a 3" Pipe Nipple with screw on Deck Plates made long enough to pass thru the wall, and then when you have run all your coax lines thru it, fill the voids with spray foam..... done those, many times..

--
Bruce in Alaska   add path before the @ for email

```
From -1373893460183262013
X-Google-Thread: fc2a5,cd25aea7ac747b0d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
94.75.214.39.MISMATCH!aioe.org!not-for-mail
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Connecting Two RF Connectors in Metal Enclosure
Date: Sun, 12 Dec 2010 14:42:32 -0500
Organization: Aioe.org NNTP Server
Lines: 30
Message-ID: <fmmck-717D30.14423212122010@5ad64b5e.bb.sky.com>
References: <Pa6dnShLPOjCMpnQnZ2dnUVZ8lqdnZ2d@brightview.co.uk>
NNTP-Posting-Host: mj2GypLaku8kpihI0aFJ6Q.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:4297

In article <Pa6dnShLPOjCMpnQnZ2dnUVZ8lqdnZ2d@brightview.co.uk>,
"John W" <jrw[no-spam-today-thank-you]@gmx.co.uk> wrote:

> I am trying to put a co-ax line through the wall of my shack. I purchased two chassis mount N-type connectors a while ago, one for inside and one for outside the shack. As you will know these connectors have a solderable centre pin for the co-ax inner conductor and seem to rely on the chassis for the outer connection.

John-

The chassis mount N connectors should come with a "back shell" that allows the center pin of Co-ax to be soldered, and the shield to be soldered to the shell. If transmitting, you need to maintain the shield to prevent your signal from being leaked from the unshielded wire. The unshielded wire will act as both a loop antenna and an inductive reactance in series with the center conductor.

As others suggested, feeding the Co-Ax through the wall may be the best approach. There is a plastic tube available for doing that. It used to be sold by Radio Shack as their model 15-1200A "Wall Feed-Through Tube", but I can't find it at their web site.

Another approach is an MFJ-4602 "Window Antenna feedthru panel". It has three Co-ax plus balanced, single wire and ground feedthroughs. The panel is meant to be mounted on a window sill with the window closed over it.

Fred
K4DII

From 2560404517972433281
X-Google-Thread: fc2a5,cd25aea7ac747b0d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!feeds.phibee-telecom.net!feeder.news-service.com!ecngs!feeder.ecngs.de!Xl.tags.giganews.com!border1.nntp.ams.giganews.com!nntp.giganews.com!local2.nntp.ams.giganews.com!nntp.brightview.co.uk!news.brightview.co.uk.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 12 Dec 2010 14:17:47 -0600
From: "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <Pa6dnShLPOjCMpnQnZ2dnUVZ8lqdnZ2d@brightview.co.uk> <slrnig9h70.3k4.nomail@xs8.xs4all.nl> <MPG.276e8bb01ca7b678989683@news.eternal-september.org> <us8No.11326$uS7.10114@newsfe23.iad>
Subject: Re: Connecting Two RF Connectors in Metal Enclosure
Date: Sun, 12 Dec 2010 20:17:46 -0000
X-Priority: 3
X-MSMail-Priority: Normal

X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <5KOdnduHx_N2sJjQnZ2dnUVZ8u6dnZ2d@brightview.co.uk>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-90dm0DoXJT1pg8TUMBeCiHmA2YXDM9xhXTqd2XId3EslOhN0+/
YRGJSY3sMKPScXpdqC3wyAd2nwLZt!
ABrKPiMlE1D857dbzmer7SlDAqOhmteq0FV9UqqXPcGdC8gATShviY2d+Kfeo0cTd/icQztbndRJ!
eOV9oaeACP8GXN8y8UNGhVa5ig==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1786
Xref: g2news1.google.com rec.radio.amateur.homebrew:4001

Thank you for your comments so far folks.

J Todd and Philo, putting the cable straight through the wall omitting the two connectors is certainly worth me considering.

Rob, to answer your questions I will mainly be using frequencies up to 146MHz but with the hope of going into the low microwave bands in the future. I will be able to put the connectors back to back so their centre conductors can be soldered directly to each other. This would mean that the connector bodies are about 10mm apart.

Thanks again,

JOHN

From 7928822388145780540
X-Google-Thread: fc2a5,cd25aea7ac747b0d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe07.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.13) Gecko/20101208
Thunderbird/3.1.7
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Connecting Two RF Connectors in Metal Enclosure
References: <Pa6dnShLPOjCMpnQnZ2dnUVZ8lqdnZ2d@brightview.co.uk>
<slrnig9h70.3k4.nomail@xs8.xs4all.nl> <MPG.276e8bb01ca7b678989683@news.eternal-
september.org> <us8No.11326$uS7.10114@newsfe23.iad>

<5KOdnduHx_N2sJjQnZ2dnUVZ8u6dnZ2d@brightview.co.uk>
In-Reply-To: <5KOdnduHx_N2sJjQnZ2dnUVZ8u6dnZ2d@brightview.co.uk>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 23
Message-ID: <w7cNo.25$%l1.24@newsfe07.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Sun, 12 Dec 2010 22:36:12 UTC
Organization: TeraNews.com
Date: Sun, 12 Dec 2010 16:36:12 -0600
Xref: g2news1.google.com rec.radio.amateur.homebrew:4002

On 12/12/2010 02:17 PM, John W wrote:
> Thank you for your comments so far folks.
>
> J Todd and Philo, putting the cable straight through the wall omitting the
> two connectors is certainly worth me considering.
>
> Rob, to answer your questions I will mainly be using frequencies up to
> 146MHz but with the hope of going into the low microwave bands in the
> future. I will be able to put the connectors back to back so their centre
> conductors can be soldered directly to each other. This would mean that the
> connector bodies are about 10mm apart.
>
> Thanks again,
>
> JOHN
>
>
>

Considering you will be 146 mhz and microwave...
then I'd definably not use any junction at all...
cable straight through the wall

From -4502500193871687977
X-Google-Thread: fc2a5,24b7ad34a23baf1c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!postnews.google.com!t8g2000prh.googlegroups.com!not-for-mail
From: Stuart Longland VK4MSL <me@vk4msl.yi.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hey all
Date: Sun, 12 Dec 2010 14:40:53 -0800 (PST)
Organization: http://groups.google.com
Lines: 34
Message-ID: <3c3618f3-fea2-414b-bd32-dbf28848fefc@t8g2000prh.googlegroups.com>
References: <soasuaftito.73c8bf9@radiobanter.com> <id80mo$g3t$1@news.eternal-september.org>

```
 <id9ggr0cc4@news7.newsguy.com>
<Pine.LNX.4.64.1012110117390.21951@darkstar.example.net>
 <slrnig7aoi.29v5.knock_yourself_out@shell.config.com>
NNTP-Posting-Host: 203.94.56.252
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1292193653 21886 127.0.0.1 (12 Dec 2010 22:40:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 12 Dec 2010 22:40:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t8g2000prh.googlegroups.com; posting-host=203.94.56.252; posting-
account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.9)
 Gecko/20101024 Gentoo Firefox/3.6.9,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4003

On Dec 12, 2:47=A0am, Allodoxaphobia <knock_yourself_...@example.net>
wrote:
> On Sat, 11 Dec 2010 01:27:00 -0500, Michael Black wrote:
>
> > This radiobanter is clearly abusing usenet, since they have now set thi=
ngs
> > up so any idiot can post, and they are indeed attracting the idiots.
>
> I have my killfile set to kill all _original_ posts from both Google and
> XXXXXbanter. =A0(Those clowns also have a photobanter and gawd knows what
> else.) =A0I'm willing to see subsequent followups because they may contai=
n
> either

Some of us have no choice but to use web portals such as Google Groups
because their ISP shut down their news server years ago (in my case,
news.gil.com.au =97 has been inactive for some time now).

Google Groups clearly states the following when posting:

> The group you are posting to is a Usenet group. Messages posted to this g=
roup will make your email address visible to anyone on the Internet.

If I could use NNTP to access this group, I would.  I'm not made of
money to pay for one of the commercial NNTP services, and sadly
they're not based in this country so I cannot pay them by bank deposit
or in-person.  Telegraphic money transfers are too expensive to be
sending small quantities of funds on a regular basis.  (I do not have
credit cards or PayPal, and refuse to obtain either.)

I think the spam sent to this newsgroup (which from what I can see,
PayPal appears to condone as every single one of the spammers offers
"PayPal" payment) is a bigger menace than people confusing web forum
for newsgroup.
```

```
From 5655566544281048268
X-Google-Thread: fc2a5,f8f78bd98d2eb20c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news2.google.com!postnews.google.com!v17g2000prc.googlegroups.com!not-for-
mail
From: Stuart Longland VK4MSL <me@vk4msl.yi.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Crystal Wanted
Date: Sun, 12 Dec 2010 14:47:40 -0800 (PST)
Organization: http://groups.google.com
Lines: 10
Message-ID: <61337a04-7b0a-4cff-8b04-2492bba9fd46@v17g2000prc.googlegroups.com>
References: <ZqsKo.10279$784.5792@newsfe28.ams2> <fmmck-
B20AD8.00362105122010@5ad64b5e.bb.sky.com>
 <rDOKo.24415$xk5.6971@newsfe05.ams2> <idgg5r$7cc$1@news.eternal-september.org>
NNTP-Posting-Host: 203.94.56.252
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1292194060 3763 127.0.0.1 (12 Dec 2010 22:47:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 12 Dec 2010 22:47:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v17g2000prc.googlegroups.com; posting-host=203.94.56.252; posting-
account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.9)
 Gecko/20101024 Gentoo Firefox/3.6.9,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4301

Hate to hijack a thread =85

On Dec 6, 2:55=A0am, highlandham <highlandham_nos...@rfburns.eu> wrote:
> With your tuneable range ,for 10.100-10.150 MHz you can use any crystal
> in the 18.495 to 18.985 MHz range ,probably even a low cost
> microprocessor type.

Out of curiosity, what's the difference between the "microprocessor"
type crystals and other crystals?  Is it just frequency stability or
is there something more fundamental?


From 7786838186936117507
X-Google-Thread: fc2a5,cd25aea7ac747b0d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!u9g2000pra.googlegroups.com!not-for-
mail
From: Stuart Longland VK4MSL <me@vk4msl.yi.org>
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Connecting Two RF Connectors in Metal Enclosure
Date: Sun, 12 Dec 2010 14:53:42 -0800 (PST)
Organization: http://groups.google.com
Lines: 19
Message-ID: <f6849454-dc71-47c0-8b0f-51eba49e75b4@u9g2000pra.googlegroups.com>
References: <Pa6dnShLPOjCMpnQnZ2dnUVZ8lqdnZ2d@brightview.co.uk>
 <slrnig9h70.3k4.nomail@xs8.xs4all.nl> <MPG.276e8bb01ca7b678989683@news.eternal-
september.org>
 <us8No.11326$uS7.10114@newsfe23.iad>
<5KOdnduHx_N2sJjQnZ2dnUVZ8u6dnZ2d@brightview.co.uk>
NNTP-Posting-Host: 203.94.56.252
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1292194422 28607 127.0.0.1 (12 Dec 2010 22:53:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 12 Dec 2010 22:53:42 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u9g2000pra.googlegroups.com; posting-host=203.94.56.252; posting-
account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.9)
 Gecko/20101024 Gentoo Firefox/3.6.9,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4005

On Dec 13, 6:17=A0am, "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
wrote:
> Thank you for your comments so far folks.
>
> J Todd and Philo, putting the cable straight through the wall omitting th=
e
> two connectors is certainly worth me considering.
>
> Rob, to answer your questions I will mainly be using frequencies up to
> 146MHz but with the hope of going into the low microwave bands in the
> future. =A0I will be able to put the connectors back to back so their cen=
tre
> conductors can be soldered directly to each other. =A0This would mean tha=
t the
> connector bodies are about 10mm apart.

Could you cut a small piece of copper pipe of the right diameter in
half then solder it around that centre pin?  Simulating a small piece
of hardline coax?



From -6812952546138696574
X-Google-Thread: fc2a5,24b7ad34a23baf1c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news2.google.com!news4.google.com!news1.google.com!npeer02.iad.highwinds-
```

```
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!spln!
extra.newsguy.com!newsp.newsguy.com!news4
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hey all
Date: Sun, 12 Dec 2010 18:57:30 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 51
Message-ID: <ie3k180121u@news4.newsguy.com>
References: <soasuaftito.73c8bf9@radiobanter.com> <id80mo$g3t$1@news.eternal-
september.org> <id9ggr0cc4@news7.newsguy.com>
<Pine.LNX.4.64.1012110117390.21951@darkstar.example.net>
<slrnig7aoi.29v5.knock_yourself_out@shell.config.com> <3c3618f3-fea2-414b-bd32-
dbf28848fefc@t8g2000prh.googlegroups.com>
NNTP-Posting-Host: pe512a5292c4b4d466b6024db14685acfc053e8e5399082df.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252; format=flowed
Content-Transfer-Encoding: 8bit
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
In-Reply-To: <3c3618f3-fea2-414b-bd32-dbf28848fefc@t8g2000prh.googlegroups.com>
X-Antivirus: avast! (VPS 101212-1, 12/12/2010), Outbound message
X-Antivirus-Status: Clean
Xref: g2news2.google.com rec.radio.amateur.homebrew:4303

Stuart Longland VK4MSL wrote:
> On Dec 12, 2:47 am, Allodoxaphobia <knock_yourself_...@example.net>
> wrote:
>> On Sat, 11 Dec 2010 01:27:00 -0500, Michael Black wrote:
>>
>>> This radiobanter is clearly abusing usenet, since they have now set things
>>> up so any idiot can post, and they are indeed attracting the idiots.
>> I have my killfile set to kill all _original_ posts from both Google and
>> XXXXXbanter.  (Those clowns also have a photobanter and gawd knows what
>> else.)  I'm willing to see subsequent followups because they may contain
>> either
>
> Some of us have no choice but to use web portals such as Google Groups
> because their ISP shut down their news server years ago (in my case,
> news.gil.com.au � has been inactive for some time now).
>
> Google Groups clearly states the following when posting:
>
>> The group you are posting to is a Usenet group. Messages posted to this group
will make your email address visible to anyone on the Internet.
>
> If I could use NNTP to access this group, I would.  I'm not made of
> money to pay for one of the commercial NNTP services, and sadly
> they're not based in this country so I cannot pay them by bank deposit
> or in-person.  Telegraphic money transfers are too expensive to be
> sending small quantities of funds on a regular basis.  (I do not have
> credit cards or PayPal, and refuse to obtain either.)
>
> I think the spam sent to this newsgroup (which from what I can see,
```

> PayPal appears to condone as every single one of the spammers offers
> "PayPal" payment) is a bigger menace than people confusing web forum
> for newsgroup.

Hi Stuart,

There are free NNTP services out there. One that many use is eternal-september.org (or something like that). To me the HTML interfaces are horribly cumbersome and having used Google Groups myself in the past the amount of spam is quite annoying.

I've seen some 'legitimate' posts coming out of radiobanter on the various groups. Not sure that's the case with this particular one, though. I try not to judge people based on who their ISP is or how they reach Usenet. Its apparent that quite a few people do :(

As for PayPal - I'm sure they don't give it a second thought!

-Bill WX4A/KP4

```
From -3172176389255936986
X-Google-Thread: fc2a5,f8f78bd98d2eb20c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!
news2.glorb.com!news.acm.uiuc.edu!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Crystal Wanted
Date: Sun, 12 Dec 2010 18:02:08 -0500
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 74
Sender: et472@200-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.1012121751370.24112@darkstar.example.net>
References: <ZqsKo.10279$784.5792@newsfe28.ams2> <fmmck-
B20AD8.00362105122010@5ad64b5e.bb.sky.com>
 <rDOKo.24415$xk5.6971@newsfe05.ams2> <idgg5r$7cc$1@news.eternal-september.org>
 <61337a04-7b0a-4cff-8b04-2492bba9fd46@v17g2000prc.googlegroups.com>
NNTP-Posting-Host: 200-215-235-64-ppp.3menatwork.com
Mime-Version: 1.0
Content-Type: MULTIPART/MIXED; BOUNDARY="8323328-1751166801-1292194928=:24112"
X-Trace: theodyn.ncf.ca 1292195026 18038 64.235.215.200 (12 Dec 2010 23:03:46 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 12 Dec 2010 23:03:46 GMT
In-Reply-To: <61337a04-7b0a-4cff-8b04-2492bba9fd46@v17g2000prc.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:4007
```

```
  This message is in MIME format.  The first part should be readable text,
  while the remaining parts are likely unreadable without MIME-aware tools.

--8323328-1751166801-1292194928=:24112
Content-Type: TEXT/PLAIN; charset=windows-1252; format=flowed
Content-Transfer-Encoding: QUOTED-PRINTABLE

On Sun, 12 Dec 2010, Stuart Longland VK4MSL wrote:

> Hate to hijack a thread =85
>
> On Dec 6, 2:55=A0am, highlandham <highlandham_nos...@rfburns.eu> wrote:
>> With your tuneable range ,for 10.100-10.150 MHz you can use any crystal
>> in the 18.495 to 18.985 MHz range ,probably even a low cost
>> microprocessor type.
>
> Out of curiosity, what's the difference between the "microprocessor"
> type crystals and other crystals?  Is it just frequency stability or
> is there something more fundamental?
>
Crystals traditionally were not commodity items.  They were ground
on demand.  Rare exceptions would be frequencies so common that
it wouldn't be a waste to make them ahead of time, so 100KHz
crystals were pretty standard.

WWII kind of spoiled people, because there was so much surplus
afterwards that for a long time, one could get a crystal "off the shelf"=20
because it existed as military surplus.  You'd either live with a crystal=
=20
"close enough" or open it up and grind it so it fit.  All those surplus
crystals allowed for people to make crystal filters when single sideband
became popular in the fifties, a lot of VHF work was able to use surplus
crystals in the 8 or 6MHz range (when the transmitters would be a string
of multipliers to get up to the desired frequency), there was even
  enough that worked on the HF ham bands.

When 2M FM came along, that was a shock.  Suddenly "close enough" wasn't,=
=20
since it was channelized, so there was an illusion that one suddenly=20
needed to have crystals ground to frequency, when that had been the
case all along.  It didn't take many years before that got old, which is
when frequency synthesizers really took off in amateur radio.

An odd exception seemed to be CB crystals, where you often could buy off=20
the shelf, or at least on a very short wait.  But they too were ground
just like all the rest, only the cb set's manufacturer saw there'd be=20
demand so they built up stock.

It was the rise of digital circuits that caused the growth of commodity=20
crystals.  ICs would be designed to use a specific frequency, that often=20
looked pretty odd until you divided it down, and these ICs were used=20
enough that the crystals became available off the shelf.  Some companies
```

tried to make use of existing commodity crystals, such as the very common color subcarrier frequency 3.58MHz, but that didn't always work.=20
Initially it was a fairly small set of commodity crystals, but more than the 100KHz and a few other frequencies seen before. "Microprocesser=20
crystal" is probably a misnomer, since they could often use whatever frequency was available, but other things needed very specific things. The variety of crystals multiplied as new ICs and gadgets came along, until there was quite a few.

Commodity crystals likely are lower spec'd, certainly you have to make the circuit work with the crystal rather than have a circuit and spend the money to have a crystal ground to fit that circuit.

But the real reason they are cheap is they are mass-produced, because the demand is there. So long as you can make do with what other people want or need, then you can get cheap crystals. It's not unlike the=20
decades after WWII when there were all those surplus crystals, you lived with what there was (but there were so many, it often wasn't a hardship).

Michael VE2BVW

--8323328-1751166801-1292194928=:24112--

```
From -8763186460393816470
X-Google-Thread: fc2a5,f8f78bd98d2eb20c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!tudelft.nl!
txtfeed1.tudelft.nl!zen.net.uk!dedekind.zen.co.uk!aioe.org!not-for-mail
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Crystal Wanted
Date: Sun, 12 Dec 2010 23:16:06 -0500
Organization: Aioe.org NNTP Server
Lines: 23
Message-ID: <fmmck-2BB077.23160512122010@5ad64b5e.bb.sky.com>
References: <ZqsKo.10279$784.5792@newsfe28.ams2> <fmmck-
B20AD8.00362105122010@5ad64b5e.bb.sky.com> <rDOKo.24415$xk5.6971@newsfe05.ams2>
<idgg5r$7cc$1@news.eternal-september.org>
<61337a04-7b0a-4cff-8b04-2492bba9fd46@v17g2000prc.googlegroups.com>
NNTP-Posting-Host: Yw8YtwZnEkxTDmN8RwzKGg.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4008
```

In article
<61337a04-7b0a-4cff-8b04-2492bba9fd46@v17g2000prc.googlegroups.com>,

Stuart Longland VK4MSL <me@vk4msl.yi.org> wrote:

> Out of curiosity, what's the difference between the "microprocessor" type crystals and other crystals? Is it just frequency stability or is there something more fundamental?

Stuart-

Michael's explanation brought back memories of my teenage years and home-brew crystal controlled rigs.

A shorter answer is that a microprocessor crystal frequency may not be critical while a radio crystal frequency may be.

It would be critical if you needed your transmitter to be on an exact frequency. In your computer, it wouldn't matter much because no one is listening! The only time it would matter is if the crystal frequency is used to keep the computer's clock accurate.

Fred
K4DII

```
From 3231492913102290616
X-Google-Thread: fc2a5,f8f78bd98d2eb20c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news2.google.com!postnews.google.com!f20g2000prn.googlegroups.com!not-for-
mail
From: Stuart Longland VK4MSL <me@vk4msl.yi.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Crystal Wanted
Date: Mon, 13 Dec 2010 01:33:35 -0800 (PST)
Organization: http://groups.google.com
Lines: 41
Message-ID: <4619595b-1abb-463d-add1-69e1710731ae@f20g2000prn.googlegroups.com>
References: <ZqsKo.10279$784.5792@newsfe28.ams2> <fmmck-
B20AD8.00362105122010@5ad64b5e.bb.sky.com>
 <rDOKo.24415$xk5.6971@newsfe05.ams2> <idgg5r$7cc$1@news.eternal-september.org>
 <61337a04-7b0a-4cff-8b04-2492bba9fd46@v17g2000prc.googlegroups.com>
<fmmck-2BB077.23160512122010@5ad64b5e.bb.sky.com>
NNTP-Posting-Host: 203.94.56.252
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1292232815 24277 127.0.0.1 (13 Dec 2010 09:33:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 13 Dec 2010 09:33:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f20g2000prn.googlegroups.com; posting-host=203.94.56.252; posting-
account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.9)
 Gecko/20101024 Gentoo Firefox/3.6.9,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4306

On Dec 13, 2:16=A0pm, Fred McKenzie <fm...@aol.com> wrote:
> In article
> <61337a04-7b0a-4cff-8b04-2492bba9f...@v17g2000prc.googlegroups.com>,
> =A0Stuart Longland VK4MSL <m...@vk4msl.yi.org> wrote:
>
> > Out of curiosity, what's the difference between the "microprocessor"
> > type crystals and other crystals? =A0Is it just frequency stability or
> > is there something more fundamental?
>
> Stuart-
>
> Michael's explanation brought back memories of my teenage years and
> home-brew crystal controlled rigs.
>
> A shorter answer is that a microprocessor crystal frequency may not be
> critical while a radio crystal frequency may be.
>
> It would be critical if you needed your transmitter to be on an exact
> frequency. =A0In your computer, it wouldn't matter much because no one is
> listening! =A0The only time it would matter is if the crystal frequency i=
s
> used to keep the computer's clock accurate.

Hi Michael & Fred,

Yep=85 economies of scale, I can grasp that.  So I'm guessing the main
difference is that one is tuned to a frequency that's more suited to
RF applications (e.g. maybe 455kHz) whereas microcontrollers will be
whatever's convenient for the microcontroller in use.

I was thinking maybe the microcontrollers were somehow less accurate
with the frequency.  Of course the fact that they are mass produced
would make them cheaper, but I thought maybe they had taken shortcuts
since microcontrollers are less critical.  (For timing purposes, a lot
use a 32.768kHz crystal.)

Thanks for the informative post however.  Guess I'm spoiled having
never lived through this earlier time. ;-)

Regards,
Stuart Longland


From -4118851371808153358
X-Google-Thread: fc2a5,cd25aea7ac747b0d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
```

85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: highlandham <highlandham_nospam@rfburns.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Connecting Two RF Connectors in Metal Enclosure
Date: Mon, 13 Dec 2010 21:07:36 +0000
Organization: A noiseless patient Spider
Lines: 53
Message-ID: <ie61up$i6v$1@news.eternal-september.org>
References: <Pa6dnShLPOjCMpnQnZ2dnUVZ8lqdnZ2d@brightview.co.uk>
<slrnig9h70.3k4.nomail@xs8.xs4all.nl> <MPG.276e8bb01ca7b678989683@news.eternal-september.org> <us8No.11326$uS7.10114@newsfe23.iad>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-15; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Mon, 13 Dec 2010 21:07:37 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="fASjAmw2Pwny4kwthE4uSg";
    logging-data="18655"; mail-complaints-to="abuse@eternal-september.org";
    posting-account="U2FsdGVkX19RF4nl8rKIerOvi23w2IYqa3Zt14/BXRs="
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.1.15) Gecko/20101027
Thunderbird/3.0.10
In-Reply-To: <us8No.11326$uS7.10114@newsfe23.iad>
Cancel-Lock: sha1:yiG9IWPFrw5lVmi2PSKqMk8eOR4=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4307

On 12/12/10 18:25, philo wrote:
> On 12/12/2010 09:35 AM, J. Todd wrote:
>> In article<slrnig9h70.3k4.nomail@xs8.xs4all.nl>, nomail@example.com
>> says...
>>> John W<jrw> wrote:
>>>> Hello all,
>>>>
>>>> I am trying to put a co-ax line through the wall of my shack. I
>>>> purchased
>>>> two chassis mount N-type connectors a while ago, one for inside and
>>>> one for
>>>> outside the shack. As you will know these connectors have a solderable
>>>> centre pin for the co-ax inner conductor and seem to rely on the
>>>> chassis for
>>>> the outer connection.
>>>>
>>>> My question is if I use a metal enclosure to mount these N
>>>> connectors how do
>>>> I connect the centre pins together. Do I use co-ax with the braid
>>>> disconnected at both ends, or one end, or do I use wire, or just put
>>>> the
>>>> chassis mount N-types to one side and buy some in-line N-types?
>>>>
>>>> I am not too worried about the mechanics of putting the enclosure on
>>>> the
>>>> wall.
>>>>
>>>> Any help would be much appreciated.

>>>
>>> You don't mention what frequency you are operating on; that makes
>>> quite a bit of difference.
>>>
>>> Also what the distance between the two connectors is.
>>>
>>> Anything that is small compared to the wavelength of the signal you
>>> are trying to transfer is not so critical.
>>>
>>> So on 3.5 MHz you may be able to use a simple wire, while on 3.5 GHz
>>> is is really important to maintain coaxiality.
>>>
>> You incur loss in each connector (.2dB?). I would run the co-ax
>> through the wall and then put the fitting on inside.
>
>
>
> I'd skip that and run the coax through the wall with no fitting whatsoever
=============================
Yes ,I have done that at my QTH allowing the coax to run inside suitable
plastic pipe ,which preferably can pass the coax connector as well.
On the outside the coax inside the plastic pipe can be best sealed with
'Bluetec' that never hardens but remains sealing well.

Frank   GM0CSZ / KN6WH

From 7073382405472275046
X-Google-Thread: fc2a5,165930eeb2b03a61
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!k13g2000vbq.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Vswr Meter
Date: Tue, 14 Dec 2010 17:52:16 -0800 (PST)
Organization: http://groups.google.com
Lines: 50
Message-ID: <d3836161-daa7-44cd-a98e-fc3573f914b4@k13g2000vbq.googlegroups.com>
References: <ashwanthh.71ee238@radiobanter.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1292377937 31773 127.0.0.1 (15 Dec 2010 01:52:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 15 Dec 2010 01:52:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k13g2000vbq.googlegroups.com; posting-host=192.25.240.225;
posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0

X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.12) Gecko/20101026 Firefox/3.6.12,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4310

On Nov 8, 11:58=A0pm, ashwanthh <ashwanthh.71ee...@radiobanter.com> wrote:

> Hi all,
>
> For my RF project, I want to measure vswr readings, in order to
> that I was planning to construct a VSWR meter. The concept of VSWR is to
> calculate the ratio of Voltage transmitted to the Voltage reflected. So
> my basic question is,
>
> 1. What sensor/instrument is used to measure the voltages from the coax
> cable(in my case)?
>
> Please some one help me with some ideas
>
> --
> ashwanthh

What is your "RF project"? What frequency or range of frequencies? What power level?

Pretty much all SWR meters don't actually measure the forward and reverse voltages directly, but deduce them from measurement of the voltage and the current on a transmission line at a point along the line. Then, knowing that the forward voltage divided by the forward current (including phase) equals the line impedance, and also equals the reverse voltage divided by the reverse current, you can deduce the forward and reverse voltages (and forward and reverse currents). You use the line impedance in the calculation, and if you've assumed a line impedance different from the impedance of the line you're actually measuring, you'll get an answer that's not correct for your actual line. The "calculation" is commonly done with analog electrical parts in typical ham SWR meters, and there is generally a way to adjust the parts so that the meter reads correctly for the line impedance you want to use--but you must actually do the check/calibration or you won't know. (The calibration may involve just adjusting a variable part, or it may involve replacing a fixed-value part with one of a different value...not nearly so easy to get it right.) Also, the accuracy of many ham-type SWR meters suffers if you don't operate them at the right power level, because of non-linearity in the detector diodes; there are ways around that (e.g. using non-diode power detectors or operating the detector at a fixed full scale range).

It's also possible to measure just the voltage at a few appropriately-spaced points along a line and deduce the SWR more directly from those readings, but this is very seldom done in practice. See "slotted line measurements" for more details.

Cheers,

Tom

```
From -1732233814068300737
X-Google-Thread: fc2a5,cd25aea7ac747b0d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!o4g2000yqd.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Connecting Two RF Connectors in Metal Enclosure
Date: Thu, 16 Dec 2010 15:59:48 -0800 (PST)
Organization: http://groups.google.com
Lines: 72
Message-ID: <430435d4-58d1-4e93-b1eb-cfa969610d1c@o4g2000yqd.googlegroups.com>
References: <Pa6dnShLPOjCMpnQnZ2dnUVZ8lqdnZ2d@brightview.co.uk>
 <slrnig9h70.3k4.nomail@xs8.xs4all.nl> <MPG.276e8bb01ca7b678989683@news.eternal-
september.org>
 <us8No.11326$uS7.10114@newsfe23.iad> <ie61up$i6v$1@news.eternal-september.org>
NNTP-Posting-Host: 155.178.4.19
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1292543988 9622 127.0.0.1 (16 Dec 2010 23:59:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 16 Dec 2010 23:59:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o4g2000yqd.googlegroups.com; posting-host=155.178.4.19; posting-
account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
 Trident/4.0; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4313

On Dec 13, 5:07=A0pm, highlandham <highlandham_nos...@rfburns.eu> wrote:
> On 12/12/10 18:25, philo wrote:
>
>
>
> > On 12/12/2010 09:35 AM, J. Todd wrote:
> >> In article<slrnig9h70.3k4.nom...@xs8.xs4all.nl>, nom...@example.com
> >> says...
> >>> John W<jrw> wrote:
> >>>> Hello all,
>
> >>>> I am trying to put a co-ax line through the wall of my shack. I
> >>>> purchased
> >>>> two chassis mount N-type connectors a while ago, one for inside and
> >>>> one for
> >>>> outside the shack. As you will know these connectors have a solderab=
le
```

> >>>> centre pin for the co-ax inner conductor and seem to rely on the
> >>>> chassis for
> >>>> the outer connection.
>
> >>>> My question is if I use a metal enclosure to mount these N
> >>>> connectors how do
> >>>> I connect the centre pins together. Do I use co-ax with the braid
> >>>> disconnected at both ends, or one end, or do I use wire, or just put
> >>>> the
> >>>> chassis mount N-types to one side and buy some in-line N-types?
>
> >>>> I am not too worried about the mechanics of putting the enclosure on
> >>>> the
> >>>> wall.
>
> >>>> Any help would be much appreciated.
>
> >>> You don't mention what frequency you are operating on; that makes
> >>> quite a bit of difference.
>
> >>> Also what the distance between the two connectors is.
>
> >>> Anything that is small compared to the wavelength of the signal you
> >>> are trying to transfer is not so critical.
>
> >>> So on 3.5 MHz you may be able to use a simple wire, while on 3.5 GHz
> >>> is is really important to maintain coaxiality.
>
> >> You incur loss in each connector (.2dB?). I would run the co-ax
> >> through the wall and then put the fitting on inside.
>
> > I'd skip that and run the coax through the wall with no fitting whatsoe=
ver
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D
> Yes ,I have done that at my QTH allowing the coax to run inside suitable
> plastic pipe ,which preferably can pass the coax connector as well.
> On the outside the coax inside the plastic pipe can be best sealed with
> 'Bluetec' that never hardens but remains sealing well.
>
> Frank =A0 =A0GM0CSZ / KN6WH- Hide quoted text -
>
> - Show quoted text -

I have taken this as far as making my own hardline several feet long
from Cu pipe. Worked pretty good until it got moisture in it. You may
have a similar problem eventually. There are special bulkhead
connectors that are several inches long they are made similar to a
barrel connector that are made for your application. I got mine from
the Wireman.
Google is your friend here.

Jimmie

```
From -8905453432498027231
X-Google-Thread: 241b302a50,c1a2d70ff3d73d8d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
cyclone01.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf01.ams.highwinds-media.com!newsfe17.ams2.POSTED!00000000!not-for-mail
From: "Mahoidar" <mahoidar@mahoidar.com>
Newsgroups: rec.radio.amateur.homebrew
References: <flarginfereen.745c678@radiobanter.com>
<WZVLo.1279$P21.1034@newsfe14.iad>
Subject: Re: Hola.
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
Message-ID: <5wnPo.77$495.22@newsfe17.ams2>
NNTP-Posting-Host: 86.15.200.53
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe17.ams2 1292764289 86.15.200.53 (Sun, 19 Dec 2010 13:11:29 UTC)
NNTP-Posting-Date: Sun, 19 Dec 2010 13:11:29 UTC
Organization: virginmedia.com
Date: Sun, 19 Dec 2010 13:11:18 -0000
Xref: g2news2.google.com rec.radio.amateur.homebrew:4315
```

"philo" <philo@privacy.not> wrote in message
news:WZVLo.1279$P21.1034@newsfe14.iad...

> On 12/08/2010 12:54 PM, flarginfereen wrote:
>> Hey guys, is this the introduction section? first time on a forum. glad
>> to be here. first post! :)
>>
>>
>>
>>
>
> No it's not
>
> you posted here this morning
>
> sheesh!

Obviously Flarginfereen isn't using the family's single brain cell today!

From 1240114977548112237
X-Google-Thread: fc2a5,c813ee8fb2a61db5,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!35g2000prb.googlegroups.com!not-for-mail
From: Lemon Tree <bitterlemon40@yahoo.ie>
Newsgroups: rec.radio.amateur.homebrew
Subject: Negative Dynamic Resistance circuit collection
Date: Mon, 20 Dec 2010 17:11:13 -0800 (PST)
Organization: http://groups.google.com
Lines: 6
Message-ID: <c4ef71e8-3bbb-49d9-b01d-bebf1eb6c77c@35g2000prb.googlegroups.com>
NNTP-Posting-Host: 113.190.208.155
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1292893873 23142 127.0.0.1 (21 Dec 2010 01:11:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 21 Dec 2010 01:11:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 35g2000prb.googlegroups.com; posting-host=113.190.208.155;
posting-account=7x6AcwoAAAANV7u8W0BE7ye1MHET79y6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
 AppleWebKit/534.10 (KHTML, like Gecko) Chrome/8.0.552.224 Safari/534.10,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4019

I have posted a Negative Dynamic Resistance circuit collection along
with some other things here:
http://code.google.com/p/lemontree/downloads/list
I am no Alan Yates however maybe you will find some things of
interest.
Sean O'Connor

From -4731058792828389279
X-Google-Thread: fc2a5,c813ee8fb2a61db5
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 20 Dec 2010 19:53:59 -0600
Date: Mon, 20 Dec 2010 19:54:29 -0600
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.13) Gecko/
20101207 Thunderbird/3.1.7
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Negative Dynamic Resistance circuit collection
References: <c4ef71e8-3bbb-49d9-b01d-bebf1eb6c77c@35g2000prb.googlegroups.com>
In-Reply-To: <c4ef71e8-3bbb-49d9-b01d-bebf1eb6c77c@35g2000prb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <FIWdnRpdR84qlY3QnZ2dnUVZ5uWdnZ2d@giganews.com>
Lines: 14
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-KVO+nVJDADysxKizYkzCy/
MI8ssMjPth6eecUabXflpWKpmwAmgREYptu7OvXWo6VdGjslscGkLQdFO!
h8Gz5UC7VG1rZJAULwYdq3WfJ1SE15U10FNFO+cyYhr2ih/qkA9j+DQ+fKgm9C6TlI4KWqxX
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1801
Xref: g2news2.google.com rec.radio.amateur.homebrew:4317

On 12/20/2010 7:11 PM, Lemon Tree wrote:
> I have posted a Negative Dynamic Resistance circuit collection along
> with some other things here:
> http://code.google.com/p/lemontree/downloads/list
> I am no Alan Yates however maybe you will find some things of
> interest.
> Sean O'Connor

I was motivated to take a look. I downloaded the zip to this Windows7 deal.
I could not open the .doc (if that's what it was.)
Pity!   You probably mentioned the scorched galvanized sheet.
Oh well...

Brian W

From 4905076903692375350
X-Google-Thread: fc2a5,c1a2d70ff3d73d8d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!s4g2000yql.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hola.
Date: Mon, 20 Dec 2010 23:19:54 -0800 (PST)
Organization: http://groups.google.com
Lines: 29
Message-ID: <27c55cf1-aa29-43cd-b85b-ae2bf44e6f85@s4g2000yql.googlegroups.com>
References: <flarginfereen.745c678@radiobanter.com>
<WZVLo.1279$P21.1034@newsfe14.iad>
<5wnPo.77$495.22@newsfe17.ams2>

```
NNTP-Posting-Host: 99.65.160.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1292915994 24964 127.0.0.1 (21 Dec 2010 07:19:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 21 Dec 2010 07:19:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s4g2000yql.googlegroups.com; posting-host=99.65.160.151; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1;
 Trident/4.0; GTB6.6; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
 3.0.30729; MAAU; .NET4.0C; MAAU),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4319

On Dec 19, 8:11=A0am, "Mahoidar" <mahoi...@mahoidar.com> wrote:
> "philo" <ph...@privacy.not> wrote in message
>
> news:WZVLo.1279$P21.1034@newsfe14.iad...
>
> > On 12/08/2010 12:54 PM, flarginfereen wrote:
> >> Hey guys, is this the introduction section? first time on a forum. gla=
d
> >> to be here. first post! :)
>
> > No it's not
>
> > you posted here this morning
>
> > sheesh!
>
> Obviously Flarginfereen isn't using the family's single brain cell today!

Hey OT
especially when he or she is posting from radiobanter.com and they
forwards the same post. that's like recrossposting, so the double
pleasure double the fun post on 2 sights.

I'll have my sheesh on a kabob.

pshaw to those, who like me, double post and don't know it.

73 OM
de n8zu


From -1612886211445626608
X-Google-Thread: 241b302a50,b1966b2029ca3ace,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j32g2000prh.googlegroups.com!not-for-
```

```
mail
From: tejaswini <teju9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: XXX  HOT PHOTOS&VIDEOS
Date: Tue, 21 Dec 2010 06:12:37 -0800 (PST)
Organization: http://groups.google.com
Lines: 36
Message-ID: <c2b16d87-7895-40f6-8145-5181b51fc2a5@j32g2000prh.googlegroups.com>
NNTP-Posting-Host: 117.199.251.166
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1292940757 20300 127.0.0.1 (21 Dec 2010 14:12:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 21 Dec 2010 14:12:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j32g2000prh.googlegroups.com; posting-host=117.199.251.166;
posting-account=6xaZwQoAAACqKFwd8FfwWgPIkcC-Icg-
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.13)
 Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4320

                           priyamani hot&sexy photos
http://karomasti9.blogspot.com/2010/12/priyamani.html
                      KATRINA SEXY PHOTOS
http://karomasti9.blogspot.com/2010/12/katrina.html
                 ANUSHKA HOT PHOTOS
http://karomasti9.blogspot.com/2010/12/anuska.html
                    BEAUTIFUL AISHWARIYA RAI
http://karomasti9.blogspot.com/2010/12/aiesh.html
                    TRISHA HOT PHOTOS
http://karomasti9.blogspot.com/2010/11/trisha-hot.html
              AMISHAPATEL HOT VIDEOS
http://karomasti9.blogspot.com/search/label/amisha
             HANSIKHA HOT SEXY PHOTOS
http://karomasti9.blogspot.com/search/label/HANSIKA
             HOT SEXY COLLEGE GIRLS
http://karomasti9.blogspot.com/search/label/hot
              BEAUTIFUL LARADATTA
http://karomasti9.blogspot.com/search/label/laradatta
              NIKISHA HOT BOOBS
http://karomasti9.blogspot.com/search/label/nikisha
           PRIYANKA SPICY LATEST PICS
http://karomasti9.blogspot.com/search/label/priyanka
              ONLY FOR YOUTH
http://karomasti9.blogspot.com/search/label/spicy
           SRILEKHA UNSEENED PHOTOS
http://karomasti9.blogspot.com/search/label/Srilekha
             CHOPRA UNBELIVABLE PHOTOS
http://karomasti9.blogspot.com/search/label/chopra
              HOT BIPASA BASU PHOTOS
http://karomasti9.blogspot.com/search/label/bipasa
              TRISHA IN A SEXY FEEL
```

http://karomasti9.blogspot.com/search/label/thrisha
SRISHA HOT BOOBS SHOW
http://karomasti9.blogspot.com/search/label/srisha
BEAUTIFUL POONAM PHOTOS
http://karomasti9.blogspot.com/search/label/poonam

```
From -3310796396510113183
X-Google-Thread: fc2a5,c813ee8fb2a61db5
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-01.dc1.easynews.com.POSTED!not-for-mail
From: Peter Dettmann <peter@aardvark.net.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Negative Dynamic Resistance circuit collection
Message-ID: <90g2h6de5emm23l8e7vpcjkof8lj4g729l@4ax.com>
References: <c4ef71e8-3bbb-49d9-b01d-bebf1eb6c77c@35g2000prb.googlegroups.com>
<FIWdnRpdR84qlY3QnZ2dnUVZ5uWdnZ2d@giganews.com>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 22
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Wed, 22 Dec 2010 11:03:09 +1100
Xref: g2news1.google.com rec.radio.amateur.homebrew:4024

On Mon, 20 Dec 2010 19:54:29 -0600, brian whatcott
<betwys1@sbcglobal.net> wrote:

>On 12/20/2010 7:11 PM, Lemon Tree wrote:
>> I have posted a Negative Dynamic Resistance circuit collection along
>> with some other things here:
>> http://code.google.com/p/lemontree/downloads/list
>> I am no Alan Yates however maybe you will find some things of
>> interest.
>> Sean O'Connor
>
>I was motivated to take a look. I downloaded the zip to this Windows7 deal.
>I could not open the .doc (if that's what it was.)
>Pity!    You probably mentioned the scorched galvanized sheet.
>Oh well...
>
>Brian W


Brian it opened ok for me, and yes it is a .doc file
```

peter

```
From -3279953708173252597
X-Google-Thread: fc2a5,c813ee8fb2a61db5
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe17.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.13) Gecko/20101208
Thunderbird/3.1.7
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Negative Dynamic Resistance circuit collection
References: <c4ef71e8-3bbb-49d9-b01d-bebf1eb6c77c@35g2000prb.googlegroups.com>
<FIWdnRpdR84qlY3QnZ2dnUVZ5uWdnZ2d@giganews.com>
<90g2h6de5emm23l8e7vpcjkof8lj4g729l@4ax.com>
In-Reply-To: <90g2h6de5emm23l8e7vpcjkof8lj4g729l@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 29
Message-ID: <OMuQo.16195$Zf2.4943@newsfe17.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Wed, 22 Dec 2010 22:16:14 UTC
Organization: TeraNews.com
Date: Wed, 22 Dec 2010 16:16:13 -0600
Xref: g2news1.google.com rec.radio.amateur.homebrew:4025

On 12/21/2010 06:03 PM, Peter Dettmann wrote:
> On Mon, 20 Dec 2010 19:54:29 -0600, brian whatcott
> <betwys1@sbcglobal.net>  wrote:
>
>> On 12/20/2010 7:11 PM, Lemon Tree wrote:
>>> I have posted a Negative Dynamic Resistance circuit collection along
>>> with some other things here:
>>> http://code.google.com/p/lemontree/downloads/list
>>> I am no Alan Yates however maybe you will find some things of
>>> interest.
>>> Sean O'Connor
>>
>> I was motivated to take a look. I downloaded the zip to this Windows7 deal.
>> I could not open the .doc (if that's what it was.)
>> Pity!    You probably mentioned the scorched galvanized sheet.
>> Oh well...
>>
>> Brian W
>
>
> Brian it opened ok for me, and yes it is a .doc file
```

>
> peter

Yep worked fine here

using Open Office

```
From -3150027202749157810
X-Google-Thread: fc2a5,92e831dc4366b371,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!t8g2000prh.googlegroups.com!not-for-
mail
From: krishna <jumpjeelan@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: KARO HOT MASTI PHOTOS&VIDEOS
Date: Thu, 23 Dec 2010 08:02:48 -0800 (PST)
Organization: http://groups.google.com
Lines: 36
Message-ID: <0268761e-5155-44bd-b8d6-462d734e313d@t8g2000prh.googlegroups.com>
NNTP-Posting-Host: 117.199.240.121
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1293120168 22554 127.0.0.1 (23 Dec 2010 16:02:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 23 Dec 2010 16:02:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t8g2000prh.googlegroups.com; posting-host=117.199.240.121;
posting-account=2m7NJQoAAACFuLW_rRBgD87aHT8Hf5IK
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.13)
 Gecko/20101203 Firefox/3.6.13,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:4026

                           priyamani hot&sexy photos
http://karomasti9.blogspot.com/2010/12/priyamani.html
                      KATRINA SEXY PHOTOS
http://karomasti9.blogspot.com/2010/12/katrina.html
                 ANUSHKA HOT PHOTOS
http://karomasti9.blogspot.com/2010/12/anuska.html
                    BEAUTIFUL AISHWARIYA RAI
http://karomasti9.blogspot.com/2010/12/aiesh.html
                    TRISHA HOT PHOTOS
http://karomasti9.blogspot.com/2010/11/trisha-hot.html
              AMISHAPATEL HOT VIDEOS
http://karomasti9.blogspot.com/search/label/amisha
             HANSIKHA HOT SEXY PHOTOS
http://karomasti9.blogspot.com/search/label/HANSIKA
             HOT SEXY COLLEGE GIRLS
```

http://karomasti9.blogspot.com/search/label/hot
BEAUTIFUL LARADATTA
http://karomasti9.blogspot.com/search/label/laradatta
NIKISHA HOT BOOBS
http://karomasti9.blogspot.com/search/label/nikisha
PRIYANKA SPICY LATEST PICS
http://karomasti9.blogspot.com/search/label/priyanka
ONLY FOR YOUTH
http://karomasti9.blogspot.com/search/label/spicy
SRILEKHA UNSEENED PHOTOS
http://karomasti9.blogspot.com/search/label/Srilekha
CHOPRA UNBELIVABLE PHOTOS
http://karomasti9.blogspot.com/search/label/chopra
HOT BIPASA BASU PHOTOS
http://karomasti9.blogspot.com/search/label/bipasa
TRISHA IN A SEXY FEEL
http://karomasti9.blogspot.com/search/label/thrisha
SRISHA HOT BOOBS SHOW
http://karomasti9.blogspot.com/search/label/srisha
BEAUTIFUL POONAM PHOTOS
http://karomasti9.blogspot.com/search/label/poonam

From 388552994569820979
X-Google-Thread: fc2a5,c813ee8fb2a61db5
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 23 Dec 2010 18:55:33 -0600
Date: Thu, 23 Dec 2010 18:56:13 -0600
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.13) Gecko/
20101207 Thunderbird/3.1.7
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Negative Dynamic Resistance circuit collection
References: <c4ef71e8-3bbb-49d9-b01d-bebf1eb6c77c@35g2000prb.googlegroups.com>
<FIWdnRpdR84qlY3QnZ2dnUVZ5uWdnZ2d@giganews.com>
<90g2h6de5emm23l8e7vpcjkof8lj4g729l@4ax.com> <OMuQo.16195$Zf2.4943@newsfe17.iad>
In-Reply-To: <OMuQo.16195$Zf2.4943@newsfe17.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <htydnZDn4-YYco7QnZ2dnUVZ5hWdnZ2d@giganews.com>
Lines: 40
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-iPb2ZYv/
SzVoYCHDWhrxim14tNHaVM5R7rIHa+44h83AsSoOMkFTaB2VgkmmXGJa8gJS4TiXGlS0fEM!
LysBxam2CzXUT6EoUMDqnEYaGHZ/ztVU7QM3nPdh+kry38iMaTSprfvPXHXHiqB7Srjh73xx
X-Complaints-To: abuse@giganews.com

```
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 2446
Xref: g2news2.google.com rec.radio.amateur.homebrew:4324

On 12/22/2010 4:16 PM, philo wrote:
> On 12/21/2010 06:03 PM, Peter Dettmann wrote:
>> On Mon, 20 Dec 2010 19:54:29 -0600, brian whatcott
>> <betwys1@sbcglobal.net> wrote:
>>
>>> On 12/20/2010 7:11 PM, Lemon Tree wrote:
>>>> I have posted a Negative Dynamic Resistance circuit collection along
>>>> with some other things here:
>>>> http://code.google.com/p/lemontree/downloads/list
>>>> I am no Alan Yates however maybe you will find some things of
>>>> interest.
>>>> Sean O'Connor
>>>
>>> I was motivated to take a look. I downloaded the zip to this Windows7
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>>> I could not open the .doc (if that's what it was.)
>>> Pity! You probably mentioned the scorched galvanized sheet.
>>> Oh well...
>>>
>>> Brian W
>>
>>
>> Brian it opened ok for me, and yes it is a .doc file
>>
>> peter
>
>
>
> Yep worked fine here
>
> using Open Office

I had the 90-day trial version of office, which had timed out on a new
W7 box.  So I downloaded open office (170MB +) and all was well. Thanks
for the hint.

Brian W




From 3050264006360413760
X-Google-Thread: fc2a5,c813ee8fb2a61db5
X-Google-NewGroupId: yes
```

```
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe08.iad.POSTED!f95b82c5!not-for-mail
From: philo <philo@privacy.not>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.13) Gecko/20101208
Thunderbird/3.1.7
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Negative Dynamic Resistance circuit collection
References: <c4ef71e8-3bbb-49d9-b01d-bebf1eb6c77c@35g2000prb.googlegroups.com>
<FIWdnRpdR84qlY3QnZ2dnUVZ5uWdnZ2d@giganews.com>
<90g2h6de5emm23l8e7vpcjkof8lj4g729l@4ax.com> <OMuQo.16195$Zf2.4943@newsfe17.iad>
<htydnZDn4-YYco7QnZ2dnUVZ5hWdnZ2d@giganews.com>
In-Reply-To: <htydnZDn4-YYco7QnZ2dnUVZ5hWdnZ2d@giganews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 46
Message-ID: <_u0Ro.3130$z06.2198@newsfe08.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Fri, 24 Dec 2010 12:38:18 UTC
Organization: TeraNews.com
Date: Fri, 24 Dec 2010 06:38:17 -0600
Xref: g2news1.google.com rec.radio.amateur.homebrew:4028

On 12/23/2010 06:56 PM, brian whatcott wrote:
> On 12/22/2010 4:16 PM, philo wrote:
>> On 12/21/2010 06:03 PM, Peter Dettmann wrote:
>>> On Mon, 20 Dec 2010 19:54:29 -0600, brian whatcott
>>> <betwys1@sbcglobal.net> wrote:
>>>
>>>> On 12/20/2010 7:11 PM, Lemon Tree wrote:
>>>>> I have posted a Negative Dynamic Resistance circuit collection along
>>>>> with some other things here:
>>>>> http://code.google.com/p/lemontree/downloads/list
>>>>> I am no Alan Yates however maybe you will find some things of
>>>>> interest.
>>>>> Sean O'Connor
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>>>> Oh well...
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>>>> Brian W
>>>
>>>
>>> Brian it opened ok for me, and yes it is a .doc file
>>>
>>> peter
>>
```

>>
>>
>> Yep worked fine here
>>
>> using Open Office
>
> I had the 90-day trial version of office, which had timed out on a new
> W7 box. So I downloaded open office (170MB +) and all was well. Thanks
> for the hint.
>
> Brian W
>
>
>

UR welcome

I do need no stinkin' Microsoft   :)

From 4214631080071540647
X-Google-Thread: fc2a5,c813ee8fb2a61db5
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: highlandham <highlandham_nospam@rfburns.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Negative Dynamic Resistance circuit collection
Date: Fri, 24 Dec 2010 12:47:46 +0000
Organization: A noiseless patient Spider
Lines: 45
Message-ID: <if24pi$pfr$1@news.eternal-september.org>
References: <c4ef71e8-3bbb-49d9-b01d-bebf1eb6c77c@35g2000prb.googlegroups.com>
<FIWdnRpdR84qlY3QnZ2dnUVZ5uWdnZ2d@giganews.com>
<90g2h6de5emm23l8e7vpcjkof8lj4g729l@4ax.com> <OMuQo.16195$Zf2.4943@newsfe17.iad>
<htydnZDn4-YYco7QnZ2dnUVZ5hWdnZ2d@giganews.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Fri, 24 Dec 2010 12:47:47 +0000 (UTC)
Injection-Info: mx01.eternal-september.org; posting-host="4/kMyAxjPveOGmdAHYZOsg";
logging-data="26107"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX1+2IKLo9G9XfFyFlYWHsELjXQuBzlorOKY="
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.13) Gecko/20101208
Thunderbird/3.1.7
In-Reply-To: <htydnZDn4-YYco7QnZ2dnUVZ5hWdnZ2d@giganews.com>
Cancel-Lock: sha1:+YqPeqRjQT5FgRDerPfPuk49EE8=
Xref: g2news2.google.com rec.radio.amateur.homebrew:4326

```
On 24/12/10 00:56, brian whatcott wrote:
> On 12/22/2010 4:16 PM, philo wrote:
>> On 12/21/2010 06:03 PM, Peter Dettmann wrote:
>>> On Mon, 20 Dec 2010 19:54:29 -0600, brian whatcott
>>> <betwys1@sbcglobal.net> wrote:
>>>
>>>> On 12/20/2010 7:11 PM, Lemon Tree wrote:
>>>>> I have posted a Negative Dynamic Resistance circuit collection along
>>>>> with some other things here:
>>>>> http://code.google.com/p/lemontree/downloads/list
>>>>> I am no Alan Yates however maybe you will find some things of
>>>>> interest.
>>>>> Sean O'Connor
>>>>
>>>> I was motivated to take a look. I downloaded the zip to this Windows7
>>>> deal.
>>>> I could not open the .doc (if that's what it was.)
>>>> Pity! You probably mentioned the scorched galvanized sheet.
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>>>>
>>>> Brian W
>>>
>>>
>>> Brian it opened ok for me, and yes it is a .doc file
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>>> peter
>>
>>
>>
>> Yep worked fine here
>>
>> using Open Office
>
> I had the 90-day trial version of office, which had timed out on a new
> W7 box. So I downloaded open office (170MB +) and all was well. Thanks
> for the hint.
>
> Brian W
=====================================
Yes Open Office is an excellent suite of apps
Since it is free nobody any longer needs the equivalent Micro$oft apps.

Frank    GM0CSZ / KN6WH





From -3668701806243677772
X-Google-Thread: fc2a5,ebfc414962f77551
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
```

border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 25 Sep 2010 22:21:11 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Upgrading an old Yaesu FRG-7
From: clifford wright <c.c.wright@paradise.net.nz>
References: <Xns9DFD1D5FCCAAcrite40@216.196.97.131>
<glQmo.350$4o3.182@newsfe14.ams2>
<Pine.LNX.4.64.1009232232010.18476@darkstar.example.net>
<SN8no.18258$HG7.13619@newsfe30.ams2> <slrni9r8l0.6dh.nomail@xs8.xs4all.nl>
Organization: Wright retro radio
Message-ID: <Xns9DFFA65AB9C4Ccrite40@216.196.97.131>
User-Agent: Xnews/5.04.25
Date: Sat, 25 Sep 2010 22:21:11 -0500
Lines: 47
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-hUWqjNoAHKYBxNPMHRl7zZKdZrPAGrD7w/FGVzqri7Id7tj/
9F7ZkxZmxLMxu5nfKrQTGvy28NStHO2!
2zBTaCJ2Cz37k+F1EXAy3pH1Ywe1PwS0H0NZUH5+kLn+QSH1BgMmWtQgVTXpqeaO5/w=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3846

Rob <nomail@example.com> wrote in
news:slrni9r8l0.6dh.nomail@xs8.xs4all.nl:

> Nikon D3000 <moriarty@uncletom.cobleigh.com> wrote:
>>
>> "Michael Black" <et472@ncf.ca> wrote in message
>> news:Pine.LNX.4.64.1009232232010.18476@darkstar.example.net...
>>> On Thu, 23 Sep 2010, Nikon D3000 wrote:
>>>
>>>> Some folks just can't leave well alone!
>>>>
>>> Another way of looking at it is that a commercial receiver makes
>>> a good start at a semi-homebrew project.
>>
>> I always start from scratch. I build my own PCB's, wind my own coils,
>> metal enclosures and chassis. If I was capable of making all my own
>> components, including tubes, I would sure would give it a go - real
>> homebrew!
>
> http://paillard.claude.free.fr/
>

Well! Do some folks REALLY thing that an FRG-7 is good enough as it
stands!!!
First and most important problem, lousy selectivity, about 6khz BW with
very poor shape factor.

Secondly very poor AGC performance, this can easily be improved with an
HCD as AGC detector and better biasing of the AGC stage and detector.
Thirdly not very good RF noise and linearity performance. Easily improved
with a better FET, better biasing and introducing an RF gain control in
the G2 circuit, while keeping AGC action on the stage.
Finally too fast a tuning rate for easy SSB tuning. I am investigating
mods to the tuning mechanism to give me another 5 times slower rate.
BTW I have made 8 complete homebrew ham stations in my career and have
WAC and about 160 countries with them.
This INCLUDES receivers.
Admittedly an Xtal controlled CIO is a luxury, but I had found a not
inconsiderable drift in the original SEO oscillator that I had rather do
without. As has been said it makes the basis of quite a good receiver,
once a few bugs are removed.
After the RF stage my next target will be the first balanced mixer. It
looks to me as if the stage could be set up to reduce intermodulation
quite a bit.
However at my age starting right from scratch is not so easy so turning
a leather purse into a silk one is easier and quicker. My TS-820 has had
the same treatment and now runs ALL HF bands.
&#'s Cliff Wright

```
From -2248167473649683165
X-Google-Thread: fc2a5,e290d8226d5693ff
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder2.cambriumusenet.nl!
feed.tweaknews.nl!83.128.0.11.MISMATCH!news-out1.kabelfoon.nl!
newsfeed.kabelfoon.nl!xindi.nntp.kabelfoon.nl!multikabel.net!
newsfeed20.multikabel.net!feeder.erje.net!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The reason we have Gravity?
Date: Mon, 30 Aug 2010 20:15:22 -0400
Organization: A noiseless patient Spider
Lines: 8
Message-ID: <i5hhiq$ofo$2@news.eternal-september.org>
References: <680014ee-46b5-4725-84d1-f956b7c3b122@y11g2000yqm.googlegroups.com>
<h_OdnQfwEvyI1ufRnZ2dnUVZ_v6dnZ2d@bright.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Tue, 31 Aug 2010 00:15:22 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="wZgqr9AMykyFW7Ez1hSDeg";
     logging-data="25080"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/t42m2hZRe0xhRJyQCl2XGKPxFjB47Avs="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.1.9) Gecko/20100423
Thunderbird/3.0.4
In-Reply-To: <h_OdnQfwEvyI1ufRnZ2dnUVZ_v6dnZ2d@bright.net>
Cancel-Lock: sha1:Xhd58ww8iY431h5lpxk1vfyWg0k=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3782

On 08/29/2010 07:57 AM, Scott wrote:
> On 8-29-2010 04:06, fitz wrote:
>> The reason we have Gravity?
>
>
> I thought we had gravity to keep chip components on the PC board until
> we got them soldered down....
There is no gravity.  The earth sucks.



From 8736975103381812562
X-Google-Thread: fc2a5,e290d8226d5693ff
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!h13g2000yqa.googlegroups.com!not-for-
mail
From: AndyS <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The reason we have Gravity?
Date: Sun, 26 Sep 2010 03:28:10 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <cc6faa08-daea-4eba-a9de-e813e696e59f@h13g2000yqa.googlegroups.com>
References: <680014ee-46b5-4725-84d1-f956b7c3b122@y11g2000yqm.googlegroups.com>
 <h_OdnQfwEvyI1ufRnZ2dnUVZ_v6dnZ2d@bright.net>
NNTP-Posting-Host: 66.19.119.41
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1285496890 25143 127.0.0.1 (26 Sep 2010 10:28:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 26 Sep 2010 10:28:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h13g2000yqa.googlegroups.com; posting-host=66.19.119.41; posting-
account=KFkOfwkAAACH2d-FARwTC0L3LBlWIhhp
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.20)
 Gecko/20081217 Firefox/2.0.0.20,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3847

On Aug 29, 6:57 am, Scott <acepilotREM...@bloomer.net> wrote:
> On 8-29-2010 04:06, fitz wrote:
>
> > The reason we have Gravity?
>
> I thought we had gravity to keep chip components on the PC board until
> we got them soldered down....

Andy comments:

  If it weren't for gravity, when birds die..... they would float
```

around up there forever....

              Andy W4OAH

From 1165369103224744084
X-Google-Thread: fc2a5,e290d8226d5693ff
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.snarked.org!.POSTED!not-for-mail
From: "D. Stussy" <spam+newsgroups@bde-arc.ampr.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The reason we have Gravity?
Date: Mon, 30 Aug 2010 20:24:15 -0700
Lines: 14
Message-ID: <i5hskt$fek$1@snarked.org>
References: <680014ee-46b5-4725-84d1-f956b7c3b122@y11g2000yqm.googlegroups.com> <h_OdnQfwEvyI1ufRnZ2dnUVZ_v6dnZ2d@bright.net> <i5hhiq$ofo$2@news.eternal-september.org>
Reply-To: "D. Stussy" <replies@newsgroups.kd6lvw.ampr.org>
NNTP-Posting-Host: pool-71-106-210-230.lsanca.dsl-w.verizon.net
X-Trace: snarked.org 1283225053 15828 71.106.210.230 (31 Aug 2010 03:24:13 GMT)
X-Complaints-To: newsmaster+complaints@snarked.org
NNTP-Posting-Date: Tue, 31 Aug 2010 03:24:13 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Xref: g2news1.google.com rec.radio.amateur.homebrew:3783

"Kenneth Scharf" <wa2mze@bellsouth.net> wrote in message
news:i5hhiq$ofo$2@news.eternal-september.org...
> On 08/29/2010 07:57 AM, Scott wrote:
> > On 8-29-2010 04:06, fitz wrote:
> >> The reason we have Gravity?
> >
> >
> > I thought we had gravity to keep chip components on the PC board until
> > we got them soldered down....
> There is no gravity. The earth sucks.

Actually, it's the Universe that sucks. Black holes prove that.

From -2886655632369879933
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes

```
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.astraweb.com!
border2.newsrouter.astraweb.com!not-for-mail
From: "JosephKK"<quiettechblue@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor
Date: Tue, 31 Aug 2010 21:59:16 -0700
Message-ID: <09nr76pocud1tlt20hkkacuu70up65551h@4ax.com>
References: <i56cfb$7ce$1@news.eternal-september.org>
<72245$4c76d77e$18ec6dd7$28051@KNOLOGY.NET> <i57kn8$rfs$1@news.eternal-
september.org> <51615$4c77d27b$45013905$21492@KNOLOGY.NET>
<i58sq5$i01$1@news.eternal-september.org> <69863d94-450f-49b5-
bdc0-4428e4f21c20@h19g2000yqb.googlegroups.com> <i5978q$kj2$1@news.eternal-
september.org> <610381d0-c522-4bbf-9bb4-0a3b148fa4b3@a36g2000yqc.googlegroups.com>
<4sok76hb6040167vgd69cr6n7hbe6bdogt@4ax.com>
<9c01a$4c7ab69c$45013905$24851@KNOLOGY.NET>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 66
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 24b67623.news.astraweb.com
X-Trace: DXC=3D?7fnW^>?Y>mgaITZn1@QL?
0kYOcDh@ZI_hUg]`0Y_\9f>CdEjZTXS7@j0BLiaDa^K_NR5\[niQY8kaR_1Lc@ZS
Xref: g2news1.google.com rec.radio.amateur.homebrew:3784
sci.electronics.design:183924

On Sun, 29 Aug 2010 14:37:49 -0500, "amdx" <amdx@knology.net> wrote:

>
>"JosephKK" <quiettechblue@yahoo.com> wrote in message
>news:4sok76hb6040167vgd69cr6n7hbe6bdogt@4ax.com...
>> On Fri, 27 Aug 2010 14:23:13 -0700 (PDT), whit3rd <whit3rd@gmail.com>
>> wrote:
>>
>>>On Aug 27, 1:30 pm, "Jeff Johnson" <Jeff_John...@Hotmail.com> wrote:
>>>> "whit3rd" <whit...@gmail.com> wrote in message
>>>>
>>>> news:69863d94-450f-49b5-bdc0-4428e4f21c20@h19g2000yqb.googlegroups.com...
>>>>
>>>> > On Aug 27, 10:31 am, "Jeff Johnson" <Jeff_John...@Hotmail.com> wrote:
>>>>
>>>> >> The theory of ideal inductors does not give any reason why a 1/2 turn
>>>> >> should
>>>> >> at all be important.
>>>>
>>>> > Oh, yes, it DOES give a reason. A pot core (or E cores) has a pair of
>>>> > return
>>>> > flux arms flanking the central element, and a '1/2 turn' winding
>>>> > imbalances
>>>> > those return fluxes.
```

```
>>>>
>>>> In the ideal case the fringe effects are usually ignored.
>>>
>>>   What 'fringe effects'?   This is about the flux contained in the
>>>   magnetic arms of the core, not outside somewhere
>>>
>>>> > That means the 3-d flux inside the core is very different in the
>>>> > two cases, and if one return arm saturates, that flux distribution
>>>> > alters
>>>> > considerably during the cycle. That causes (1) the material to heat
>>>> > due to remagnetization in an asymmetric way, (2) the forces of the
>>>> > pole pieces to modulate as the field builds. The first effect (caused
>>>> > by material hysteresis) might have been expected. The second
>>>> > effect, though, will cause ultrasonic excitation of the core, maybe
>>>> > creating cracks by mechanical stress.
>>>
>>>> ...all the effects you describe should heat the central
>>>> windings more than the outside and have little to do with the end turn
>>>> amount.
>>>
>>>Oh, this has nothing to do with ohmic heating in the windings.  It
>>>concerns
>>>the B-H curve, which (for a hysteretic material) loops around some
>>>area.
>>>At 600 kHz, the area, multiplied by 6e6, is the power lost when the
>>>magnetic material is forced to traverse that loop.
>>>If part of the material saturates, its loop is of greater area than
>>>the rest of
>>>the material.   A core that should handle 2A without overheating, then
>>>would overheat.
>>
>> You may be on to something.  Maybe.  At least it make physics sense to
>> me, but then i are enguneer.  It does show a path to have thermal
>> non-uniformity that is regenreative.
>>
>> Say Mike just how big is that pot core?
>
> I think it may have been a 3622 but could have been a 4229.
>                               MikeK
>
I take it that is dimensions in mm.  What material?  Minimum
"thickness" (cross section)


From -1136717496971252858
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
```

news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 01 Sep 2010 00:31:06 -0500
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<4c79f8b0$0$22164$742ec2ed@news.sonic.net>
In-Reply-To: <4c79f8b0$0$22164$742ec2ed@news.sonic.net>
Subject: Re: Heating in 4-1/2 turn inductor GOSH!
Date: Tue, 31 Aug 2010 22:31:02 -0700
MIME-Version: 1.0
Content-Type: text/plain;
format=flowed;
charset="iso-8859-1";
reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18197
Message-ID: <aeednRAc6teHeODRnZ2dnUVZ_sWdnZ2d@giganews.com>
Lines: 25
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Cvu/IiGdEDEdomKC2z28xEZLvWiyqS8lObkQ45IiRlzABz/
c8QSBZiJiUhWC0285h4HiB4oYpW0/gV1!ijKfiBuVzt7SgNKX/SzzHHW7D6GrOSz/
SHITkENd196FPZTptN+wmS+hW+pUm5t6W9vTfq8WxfA=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3785
sci.electronics.design:183928

I tried reading and understanding most of the posts, but confess not understanding all of them.
BUT, I cannot resist inserting my "two cents" worth:

In olden days, it was quite common (but unwelcome) to have parasitic oscillations run away in large RF amplifiers. They would start all by themselves and quickly begin roasting tubes, coils, even adjacent conductive surfaces, whatever got in the way. The often encountered case would be a HF amplifier running away (self-oscillating for the unwashed) at a VHF or UHF frequency.

One common, but mysterious result was burned parts of RF chokes in the plate circuit. (you do remember tubes, right?) I think there were a couple of commercial RF chokes wound on long ceramic (steatite?) cores with assorted winding spacings on the ceramic core. Burned spots would occur in only one or two places on the length of the winding. Caused, supposedly by a high current node on a VHF or UHF resonant portion of the winding.

4 1/2 turns at 600khz must be an awfully low impedance circuit, but

could be right down the alley for VHF.

Brian has my vote for barking up the right tree.

Old Chief Lynn, W7LTQ

```
From 6277339503774187019
X-Google-Thread: fcc6e,504d62ebaadc187c,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,504d62ebaadc187c,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,504d62ebaadc187c,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,504d62ebaadc187c,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,504d62ebaadc187c,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,504d62ebaadc187c,start
X-Google-NewGroupId: yes
X-Google-Thread: 10e8ad,504d62ebaadc187c,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,504d62ebaadc187c,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf
6,gid8f86f75953,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1280642401@panix.com>
Followup-To: poster
Date: 1 Sep 2010 02:00:02 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 04 Oct 2010 02:00:00 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1283320800@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1283320802 23527 166.84.1.2 (1 Sep 2010 06:00:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 1 Sep 2010 06:00:02 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
```

Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
Xref: g2news1.google.com rec.radio.amateur.antenna:18194 rec.radio.amateur.dx:707 rec.radio.amateur.equipment:2200 rec.radio.amateur.homebrew:3786 rec.radio.amateur.misc:5223 rec.radio.amateur.policy:28183 rec.radio.amateur.space:376 rec.radio.info:1688

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.

From -1694697252456116529
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <i56cfb$7ce$1@news.eternal-september.org>
<72245$4c76d77e$18ec6dd7$28051@KNOLOGY.NET> <i57kn8$rfs$1@news.eternal-
september.org> <51615$4c77d27b$45013905$21492@KNOLOGY.NET>
<i58sq5$i01$1@news.eternal-september.org> <69863d94-450f-49b5-
bdc0-4428e4f21c20@h19g2000yqb.googlegroups.com> <i5978q$kj2$1@news.eternal-
september.org> <610381d0-c522-4bbf-9bb4-0a3b148fa4b3@a36g2000yqc.googlegroups.com>
<4sok76hb6040167vgd69cr6n7hbe6bdogt@4ax.com>
<9c01a$4c7ab69c$45013905$24851@KNOLOGY.NET>
<09nr76pocud1tlt20hkkacuu70up65551h@4ax.com>
Subject: Re: Heating in 4-1/2 turn inductor
Date: Fri, 3 Sep 2010 10:01:03 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 100903-0, 09/03/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <d545c$4c810cf3$45013905$6323@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 83
X-Trace: d545c4c810cf3e0a49ca006323
Xref: g2news1.google.com rec.radio.amateur.homebrew:3791
sci.electronics.design:184393

"JosephKK" <quiettechblue@yahoo.com> wrote in message
news:09nr76pocud1tlt20hkkacuu70up65551h@4ax.com...
> On Sun, 29 Aug 2010 14:37:49 -0500, "amdx" <amdx@knology.net> wrote:
>
>>
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>>news:4sok76hb6040167vgd69cr6n7hbe6bdogt@4ax.com...
>>> On Fri, 27 Aug 2010 14:23:13 -0700 (PDT), whit3rd <whit3rd@gmail.com>
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>>>

```
>>>>On Aug 27, 1:30 pm, "Jeff Johnson" <Jeff_John...@Hotmail.com> wrote:
>>>>> "whit3rd" <whit...@gmail.com> wrote in message
>>>>>
>>>>> news:69863d94-450f-49b5-bdc0-4428e4f21c20@h19g2000yqb.googlegroups.com...
>>>>>
>>>>> > On Aug 27, 10:31 am, "Jeff Johnson" <Jeff_John...@Hotmail.com>
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>>>>> >> The theory of ideal inductors does not give any reason why a 1/2
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>>>>> > Oh, yes, it DOES give a reason. A pot core (or E cores) has a pair
>>>>> > of
>>>>> > return
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>>>>
>>>>   What 'fringe effects'?   This is about the flux contained in the
>>>>   magnetic arms of the core, not outside somewhere
>>>>
>>>>> > That means the 3-d flux inside the core is very different in the
>>>>> > two cases, and if one return arm saturates, that flux distribution
>>>>> > alters
>>>>> > considerably during the cycle. That causes (1) the material to heat
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>>>>> > (caused
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>>>>> amount.
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>>>>magnetic material is forced to traverse that loop.
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>>> non-uniformity that is regenreative.
>>>
>>> Say Mike just how big is that pot core?
>>
>> I think it may have been a 3622 but could have been a 4229.
>>                               MikeK
>>
> I take it that is dimensions in mm.  What material?  Minimum
> "thickness" (cross section)

  Here's the pdf on the core I think was used. The material was 3F3.
I don't know the gap size, I thought we generally used the 160 gap,
but I don't even see that listed. I decided it's more likely we used the
4229
than the 3622. It's been 10 years so details have faded.
 http://www.ferroxcube.com/prod/assets/p4229.pdf





From 3558484982166252058
X-Google-Thread: fc2a5,ded9c48ff8dc19f6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!
news2.glorb.com!newsfeed-3001.bay.webtv.net!newssorter-3001.bay.webtv.net!not-for-
mail
From: ogrowup@webtv.net (Padraigh ProAmerica)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REAL LIP KISS VIDEOS
Date: Fri, 3 Sep 2010 16:54:30 -0400
Organization: WebTV Subscriber
Lines: 7
Message-ID: <19641-4C816086-2557@storefull-3173.bay.webtv.net>
References: <269df4af-42ed-4b0c-a429-15be6ec413a9@l38g2000pro.googlegroups.com>
NNTP-Posting-Host: localhost.webtv.net
Mime-Version: 1.0 (WebTV)
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
X-WebTV-Signature: 1
     ETAsAhQULBwLuE82pm2ECLe9ZJ3dPxIS0wIUHd8KuDH8S1rtjXZTQPdTBXCnbkM=
Content-Disposition: Inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:3792

I prefer participating to watching.

"Communists worship Satan. Socialists think perdition is a good system
run by bad men. Liberals want us to go to hell becuase it's warm in the
winter."
             P.J. O 'Rourke
```

```
From 2513720810833583543
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!x42g2000yqx.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor
Date: Sat, 4 Sep 2010 16:57:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 30
Message-ID: <5e430d5a-eb06-4f9f-9ec3-c551225f7ef8@x42g2000yqx.googlegroups.com>
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
NNTP-Posting-Host: 99.92.116.155
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1283644642 26902 127.0.0.1 (4 Sep 2010 23:57:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 4 Sep 2010 23:57:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x42g2000yqx.googlegroups.com; posting-host=99.92.116.155; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.8)
 Gecko/20100723 Ubuntu/10.04 (lucid) Firefox/3.6.8,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3794
sci.electronics.design:184734
```

Hey OT:

I stand by my proximity effect.

The Q is equal to Rl/Xc the half turn has twice as much Xc so the Q
for that turn is half as much as the other turns because of proximity
Thus the Pd in the half turn is 4 times the Pd in the other turns.

73 OT
de n8zu

On Aug 25, 12:09=A0pm, "amdx" <a...@knology.net> wrote:

```
> Several years ago while making inductors for tuning a class E amplifier w=
e
> end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore, gappe=
d I
> think,
> but it has been awhile. The inductor was driven hard but below saturation=
.
> The problem; the 1/2 turn got HOT. =A0Four turns or five turns were ok.
> =A0My physicist friend had an EE verify the problem 2000 miles away.
>
> So, can anyone tell me why 1/2 turn would make such a difference in the
> heating?
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Thanks, M=
ikeK



From 8643175786356713026
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe11.iad.POSTED!4b906575!not-for-mail
From: "NeonGuru" <eugene_77@live.com>
Newsgroups: rec.radio.amateur.homebrew
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
Subject: Re: Heating in 4-1/2 turn inductor
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Response
Message-ID: <N2Cgo.55314$co1.31094@newsfe11.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Sun, 05 Sep 2010 01:06:53 UTC
Organization: TeraNews.com
Date: Sat, 4 Sep 2010 18:07:02 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:3795

A 12 bit insulator is 4/3 bytes a half turn is 1/X or 8 bits...

"amdx" <amdx@knology.net> wrote in message
news:7baf9$4c754008$45013905$14209@KNOLOGY.NET...
> Several years ago while making inductors for tuning a class E amplifier we
> end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore, gapped
> I think,
> but it has been awhile. The inductor was driven hard but below saturation.
> The problem; the 1/2 turn got HOT.  Four turns or five turns were ok.
> My physicist friend had an EE verify the problem 2000 miles away.
>
> So, can anyone tell me why 1/2 turn would make such a difference in the
> heating?
```

```
>
>                                 Thanks, MikeK
>
>




From -49173742850174445
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.astraweb.com!
border1.newsrouter.astraweb.com!not-for-mail
From: "JosephKK"<quiettechblue@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor
Date: Sat, 04 Sep 2010 19:38:15 -0700
Message-ID: <gj0686dsr6793ttfj9eltldsu82fi40ntu@4ax.com>
References: <51615$4c77d27b$45013905$21492@KNOLOGY.NET>
<i58sq5$i01$1@news.eternal-september.org> <69863d94-450f-49b5-
bdc0-4428e4f21c20@h19g2000yqb.googlegroups.com> <i5978q$kj2$1@news.eternal-
september.org> <610381d0-c522-4bbf-9bb4-0a3b148fa4b3@a36g2000yqc.googlegroups.com>
<4sok76hb6040167vgd69cr6n7hbe6bdogt@4ax.com>
<9c01a$4c7ab69c$45013905$24851@KNOLOGY.NET>
<09nr76pocud1tlt20hkkacuu70up65551h@4ax.com>
<d545c$4c810cf3$45013905$6323@KNOLOGY.NET>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 85
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 5d2d28f3.news.astraweb.com
X-Trace: DXC=bI:C0B0Z5ONDIol_\Lk[aFL?0kYOcDh@J\;EUAhjO1]MCNhM2[?
nCRG7@j0BLiaDaNPkBN2`9FR4KndT]jLKELoB
Xref: g2news1.google.com rec.radio.amateur.homebrew:3796
sci.electronics.design:184760

On Fri, 3 Sep 2010 10:01:03 -0500, "amdx" <amdx@knology.net> wrote:

>
>"JosephKK" <quiettechblue@yahoo.com> wrote in message
>news:09nr76pocud1tlt20hkkacuu70up65551h@4ax.com...
>> On Sun, 29 Aug 2010 14:37:49 -0500, "amdx" <amdx@knology.net> wrote:
>>
>>>
>>>"JosephKK" <quiettechblue@yahoo.com> wrote in message
>>>news:4sok76hb6040167vgd69cr6n7hbe6bdogt@4ax.com...
>>>> On Fri, 27 Aug 2010 14:23:13 -0700 (PDT), whit3rd <whit3rd@gmail.com>
```

>>>> wrote:
>>>>
>>>>>On Aug 27, 1:30 pm, "Jeff Johnson" <Jeff_John...@Hotmail.com> wrote:
>>>>>> "whit3rd" <whit...@gmail.com> wrote in message
>>>>>>
>>>>>> news:69863d94-450f-49b5-bdc0-4428e4f21c20@h19g2000yqb.googlegroups.com...
>>>>>>
>>>>>> > On Aug 27, 10:31 am, "Jeff Johnson" <Jeff_John...@Hotmail.com>
>>>>>> > wrote:
>>>>>>
>>>>>> >> The theory of ideal inductors does not give any reason why a 1/2
>>>>>> >> turn
>>>>>> >> should
>>>>>> >> at all be important.
>>>>>>
>>>>>> > Oh, yes, it DOES give a reason. A pot core (or E cores) has a pair
>>>>>> > of
>>>>>> > return
>>>>>> > flux arms flanking the central element, and a '1/2 turn' winding
>>>>>> > imbalances
>>>>>> > those return fluxes.
>>>>>>
>>>>>> In the ideal case the fringe effects are usually ignored.
>>>>>
>>>>>   What 'fringe effects'?   This is about the flux contained in the
>>>>>   magnetic arms of the core, not outside somewhere
>>>>>
>>>>>> > That means the 3-d flux inside the core is very different in the
>>>>>> > two cases, and if one return arm saturates, that flux distribution
>>>>>> > alters
>>>>>> > considerably during the cycle. That causes (1) the material to heat
>>>>>> > due to remagnetization in an asymmetric way, (2) the forces of the
>>>>>> > pole pieces to modulate as the field builds. The first effect
>>>>>> > (caused
>>>>>> > by material hysteresis) might have been expected. The second
>>>>>> > effect, though, will cause ultrasonic excitation of the core, maybe
>>>>>> > creating cracks by mechanical stress.
>>>>>
>>>>>> ...all the effects you describe should heat the central
>>>>>> windings more than the outside and have little to do with the end turn
>>>>>> amount.
>>>>>
>>>>>Oh, this has nothing to do with ohmic heating in the windings. It
>>>>>concerns
>>>>>the B-H curve, which (for a hysteretic material) loops around some
>>>>>area.
>>>>>At 600 kHz, the area, multiplied by 6e6, is the power lost when the
>>>>>magnetic material is forced to traverse that loop.
>>>>>If part of the material saturates, its loop is of greater area than
>>>>>the rest of
>>>>>the material.   A core that should handle 2A without overheating, then
>>>>>would overheat.
>>>>

```
>>>> You may be on to something.  Maybe.  At least it make physics sense to
>>>> me, but then i are enguneer.  It does show a path to have thermal
>>>> non-uniformity that is regenreative.
>>>>
>>>> Say Mike just how big is that pot core?
>>>
>>> I think it may have been a 3622 but could have been a 4229.
>>>                               MikeK
>>>
>> I take it that is dimensions in mm.  What material?  Minimum
>> "thickness" (cross section)
>
>  Here's the pdf on the core I think was used. The material was 3F3.
>I don't know the gap size, I thought we generally used the 160 gap,
>but I don't even see that listed. I decided it's more likely we used the
>4229
>than the 3622. It's been 10 years so details have faded.
> http://www.ferroxcube.com/prod/assets/p4229.pdf
>
>
Thanks, i will have to study some to be able to read that datasheet.



From 3743892993384921700
X-Google-Thread: fc2a5,20aa4afa4cafbf24,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!t20g2000yqa.googlegroups.com!not-for-
mail
From: lucianopep <lucistel@libero.it>
Newsgroups: rec.radio.amateur.homebrew
Subject: Yaesu FT  757 GX  VIDEO defect
Date: Mon, 6 Sep 2010 10:20:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 4
Message-ID: <603f2cb0-fb8d-488e-b0ad-f8bde00d2f11@t20g2000yqa.googlegroups.com>
NNTP-Posting-Host: 82.59.174.134
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1283793647 27886 127.0.0.1 (6 Sep 2010 17:20:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 6 Sep 2010 17:20:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t20g2000yqa.googlegroups.com; posting-host=82.59.174.134; posting-
account=ksBY-AoAAAAPtpt3t_zEJKeiJMth6QvE
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
 AppleWebKit/533.4 (KHTML, like Gecko) Chrome/5.0.375.127 Safari/533.4,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3799

Help! This is the video that is the fault of my radio.
Can you help? Thanks laky
```

```
http://www.youtube.com/watch?v=vzPN13bO44o


From -6621406578824154332
X-Google-Thread: fc2a5,20aa4afa4cafbf24
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e14g2000yqe.googlegroups.com!not-for-
mail
From: lucianopep <lucistel@libero.it>
Newsgroups: rec.radio.amateur.homebrew
Subject: Yaesu FT  757 GX  VIDEO defect
Date: Mon, 6 Sep 2010 10:24:31 -0700 (PDT)
Organization: http://groups.google.com
Lines: 4
Message-ID: <a801034f-3d98-4060-8da8-987d4e2ec3d7@e14g2000yqe.googlegroups.com>
NNTP-Posting-Host: 82.59.174.134
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1283793897 19490 127.0.0.1 (6 Sep 2010 17:24:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 6 Sep 2010 17:24:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e14g2000yqe.googlegroups.com; posting-host=82.59.174.134; posting-
account=ksBY-AoAAAAPtpt3t_zEJKeiJMth6QvE
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
 AppleWebKit/533.4 (KHTML, like Gecko) Chrome/5.0.375.127 Safari/533.4,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3800

Help! This is the video that is the fault of my radio.
Can you help? Thanks laky

http://www.youtube.com/watch?v=vzPN13bO44o


From -8796301991841558042
X-Google-Thread: fcc6e,81be42b4451ab24d,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,81be42b4451ab24d,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,81be42b4451ab24d,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,81be42b4451ab24d,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,81be42b4451ab24d,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,81be42b4451ab24d,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,81be42b4451ab24d,start
X-Google-NewGroupId: yes
```

X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf6,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!novia!news-out.readnews.com!news-xxxfer.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1281161101@panix.com>
Followup-To: poster
Date: 7 Sep 2010 02:05:02 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 10 Oct 2010 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1283839501@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1283839502 10983 166.84.1.2 (7 Sep 2010 06:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 7 Sep 2010 06:05:02 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:18336 rec.radio.amateur.dx:713 rec.radio.amateur.equipment:2210 rec.radio.amateur.homebrew:3802 rec.radio.amateur.misc:5252 rec.radio.amateur.policy:28216 rec.radio.info:1706

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)

Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

```
One significant omission, requiring immediate updates, for this article       |
is that it does not mention newer amateur radio newsgroups created since      |
it was written, including:                                                    |

 rec.radio.amateur.antenna                                                    |
 rec.radio.amateur.boatanchors                                                |
 rec.radio.amateur.dx                                                         |
 rec.radio.amateur.equipment                                                  |
 rec.radio.amateur.homebrew                                                   |
 rec.radio.amateur.moderated                                                  |
 rec.radio.amateur.space                                                      |
```

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

From 2090421132881031851
X-Google-Thread: fc2a5,c4f2e1e8b0583374
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!x42g2000yqx.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: IF Transformers
Date: Tue, 7 Sep 2010 20:01:47 -0700 (PDT)
Organization: http://groups.google.com
Lines: 41
Message-ID: <bfa66b24-13ee-480f-9654-853e45cc54c6@x42g2000yqx.googlegroups.com>
References: <MPG.26de32dafd229857989682@news.virginmedia.com>
NNTP-Posting-Host: 99.92.116.155
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1283914914 29710 127.0.0.1 (8 Sep 2010 03:01:54 GMT)
X-Complaints-To: groups-abuse@google.com

NNTP-Posting-Date: Wed, 8 Sep 2010 03:01:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x42g2000yqx.googlegroups.com; posting-host=99.92.116.155; posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.8)
 Gecko/20100723 Ubuntu/10.04 (lucid) Firefox/3.6.8,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3803

On Aug 25, 1:12=A0pm, Howard James <howar...@hotmail.com> wrote:
Hey OT:

I seen one web site, wound if coils on 1/2inch PVC, turns were 65
turns for the grid and 150 turns for the plate they used a ferrite rod
or antenna rod for a tuning slug. put the coils in a tin can for like
soup;

Another site they used 2, 1mh coils in close proximity and tuning with
trim caps, all put in a cast aluminum box.

Both those idea's bigger than the old 3/4in sq can of old.

Trying to find treaded slugs could be a chore even it you wanted to
dup the old cans,

Trouble with the surplus stuff you don't know if it is 455 or 10.7
unless you test it or take it apart.

73 OT:

de n8zu

> I'm about to embark on a "vintage" valve (tube) receiver but have a
> question (probably more questions later!!!) about the IF transformers.
> Years ago I was able to purchase the transformers for 455 KHz but the
> ones I want are for 9 MHz. I think I'll have to wind them. I don't have
> any 10.7 MHz transformers. Any advice appreciated. I'm really interested
> in the turns ratios as I'll be winding the primaries for a Q of about
> 100.
> Do the inter-IF amp windings have the same turns ratio as the balanced
> modulator detector transformer? I think not. Do I have to worry about
> turns ratio for anode impedance to grid impedance and what are "rule of
> thumb" ratios? Can I use FTxx toroids as opposed to say quarter inch
> coil formers with screening cans? So many questions. It's great being a
> radio amateur!
> Thanks. Howard.

From -2345736112767324424

```
X-Google-Thread: fc2a5,d52752e85c351fa7,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z28g2000yqh.googlegroups.com!not-for-
mail
From: spamhog <n1jpr@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: manual antenna matching in switch mode HF amps??
Date: Wed, 8 Sep 2010 10:21:24 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <bceccb93-4532-4144-870c-abdfc8797415@z28g2000yqh.googlegroups.com>
NNTP-Posting-Host: 93.33.81.66
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1283966484 2885 127.0.0.1 (8 Sep 2010 17:21:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 8 Sep 2010 17:21:24 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z28g2000yqh.googlegroups.com; posting-host=93.33.81.66; posting-
account=tuTwjgoAAABgsw0HP7EbLMV3yMd8jh4C
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.80 (Windows NT 5.1; U; en) Presto/2.6.30 Version/
10.61,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3804
```

On class C tube PAs one could match a Pi-network by seeking the anode current minimum.

Is it at all possible to do the same on a switch-mode PA?

The rationale:
- want low power CW TX for ANY any HF band ever
- a carefully balanced push-pull PA output will be low in even harmonics
 (really low, I know from experience)
- I can use MOSFETs capable of taking huge excess I & V
- I'd rather avoid messing with many separate octave filters
- fiddling with many manual controls is OK w/ me

I am rather confident that the 5 poles in TWO separate hand-trimmed Pi-sections in series between step-up RF transformer and antenna will provide sufficient (mostly odd-) harmonic suppression. I'd first switch in a 50-ohm dummy load after the 1st Pi-section, match to it, then switch in the second Pi + antenna, tune up the 2nd Pi.

Before I start collecting parts for another TX and 2 Pi sections, I'd like to know if DC drain can be a useful indication for tuning up. I suspect, but don't know for a fact, that something in SMPAs may make the old way of tuning up impossible.

Any wisdom on that?

TIA + 73

N1JPR

From 520324069093849132
X-Google-Thread: fc2a5,fe9b8c639cc300a6,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!npeer01.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
nx01.iad01.newshosting.com!newshosting.com!newsfeed.neostrada.pl!unt-
exc-01.news.neostrada.pl!unt-spo-a-01.news.neostrada.pl!news.neostrada.pl.POSTED!
not-for-mail
Date: Fri, 10 Sep 2010 16:05:26 +0200
From: Atlantis <marekw1986NOSPAM@wp.pl>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; pl; rv:1.8) Gecko/20051201
Thunderbird/1.5 Mnenhy/0.7.3.0
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Homemade 2m FM transceiver?
Content-Type: text/plain; charset=ISO-8859-2
Content-Transfer-Encoding: 7bit
Lines: 1
Message-ID: <4c8a3b0c$0$27042$65785112@news.neostrada.pl>
Organization: Telekomunikacja Polska
NNTP-Posting-Host: 83.29.53.86
X-Trace: 1284127501 unt-rea-a-02.news.neostrada.pl 27042 83.29.53.86:27707
X-Complaints-To: abuse@news.neostrada.pl
Xref: g2news1.google.com rec.radio.amateur.homebrew:3806

Do anyone of you know such project, worth or recommending?

From -2130246576651809499
X-Google-Thread: fc2a5,20aa4afa4cafbf24
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!news2.arglkargh.de!news.musoftware.de!wum.musoftware.de!fu-
berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Joerg <invalid@invalid.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Yaesu FT 757 GX VIDEO defect
Date: Fri, 10 Sep 2010 10:28:28 -0700
Organization: Consultant
Lines: 22
Message-ID: <8ev866FctiU1@mid.individual.net>

References: <603f2cb0-fb8d-488e-b0ad-f8bde00d2f11@t20g2000yqa.googlegroups.com>
Reply-To: news@analogconsultants.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: individual.net JdV1lpTLguOSA4+Do0IXEAyRLcdEwNdfv5Hs25Zj8GxyzlhQq6
Cancel-Lock: sha1:wOnDccfbZbpspintc4uED6F/veo=
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
In-Reply-To: <603f2cb0-fb8d-488e-b0ad-f8bde00d2f11@t20g2000yqa.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:3807

lucianopep wrote:
> Help! This is the video that is the fault of my radio.
> Can you help? Thanks laky
>
> http://www.youtube.com/watch?v=vzPN13bO44o

I don't know the FT-757 but if it is the TX drive level you are changing, could it be that something in the TX section is oscillating? I once had that happen on my JST-100 and discovered a marginal design in the driver to the PA. It's was very long ago, I think I used an inductor somewhere and the problem was gone.

Nice video camera there.

--
Regards, Joerg

http://www.analogconsultants.com/

"gmail" domain blocked because of excessive spam.
Use another domain or send PM.

From 1557446622139594036
X-Google-Thread: fc2a5,fe9b8c639cc300a6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!newsp.newsguy.com!news4
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homemade 2m FM transceiver?
Date: Fri, 10 Sep 2010 15:11:55 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 4
Message-ID: <i6dvil030id@news4.newsguy.com>
References: <4c8a3b0c$0$27042$65785112@news.neostrada.pl>
NNTP-Posting-Host: p36a67ec559c7c0f82b2028a501ea09235b47e4ebf77a44b0.newsdawg.com
Mime-Version: 1.0

```
Content-Type: text/plain; charset=ISO-8859-2; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <4c8a3b0c$0$27042$65785112@news.neostrada.pl>
X-Antivirus: avast! (VPS 100910-0, 09/10/2010), Outbound message
X-Antivirus-Status: Clean
Xref: g2news1.google.com rec.radio.amateur.homebrew:3808
```

Atlantis wrote:
> Do anyone of you know such project, worth or recommending?

Nope.

```
From -7333869580077701076
X-Google-Thread: fc2a5,d451b0d924a030f,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news1.google.com!news.glorb.com!
news2.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!
easynews.com!en-nntp-06.dc1.easynews.com.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: FS:  400 working meters
From: Eugene Rippen <soundval@muchstuff.com>
Organization: Your Company
Message-ID: <Xns9DEF9625CDB1er7373@69.16.186.8>
User-Agent: Xnews/5.04.25
Lines: 20
X-Complaints-To: abuse@easynews.com
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Fri, 10 Sep 2010 21:45:43 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:3809
```

There are over 400 meters in my rented storage.
I wish to now relinquish my proprietary rights to them.
For a small sum of money, someone else can become their master.
SO!............ for a mere $995, or best offer, plus shipping, off they
go.
The movements for each of these works.
Small side issue: I estimate they can be packed in about 12 to 15 cartons,
and their total weight will be about 280 pounds. I will agree to pay for
any
amount over 300 pounds. (Considering the
total amount paid, I might agree to deliver, but only after receiving
payment in full.)

The list is at:
http://www.muchstuff.com/meterbrand.htm
Please be patient - its slow to appear.

From -2107224324647268960
X-Google-Thread: fc2a5,fe9b8c639cc300a6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
newshosting.com!post01.iad!not-for-mail
From: Kickin' Ass and Takin' Names <PopUlist349@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homemade 2m FM transceiver?
Date: Fri, 10 Sep 2010 22:56:09 -0400
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse(at)newshosting.com
Message-ID: <herl86989hl1gk33fs6cg7aucpd29c1uae@4ax.com>
References: <4c8a3b0c$0$27042$65785112@news.neostrada.pl>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 33
Xref: g2news1.google.com rec.radio.amateur.homebrew:3810

On Fri, 10 Sep 2010 16:05:26 +0200, Atlantis <marekw1986NOSPAM@wp.pl>
wrote:

>Do anyone of you know such project, worth or recommending?

Haven't seen any around for years.

Once upon a time -- back in the early 1970's -- I built two 2-mtr FM transceivers.

One was built from a kit sold by VHF Engineering, Rochester, NY. The receiver consisted of four small rectangular PC boards that could be assembled side-by-saide, one on top of the other, etc. Transmitter was a small rectangular PC board that ran about 2 watts output. As I recall, they also sold an amp with about 10 watts output. Crystal controlled.

The other was built from a circuit in QST. Several suppliers sold circuit boards and you had to dig around to find the parts. It was on a single PC board -- may have been about 4 in X 8 in. Crystal controlled.

But -- that was back in the days when men were men

Here are some links that may be helpful:

http://www.hobbytron.com/pdf/ft146E.pdf

http://www.qsl.net/n/n5na//pages/1220/

```
From 6597205052034684409
X-Google-Thread: fc2a5,56e676e828eca167,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
newsfeed3.dallas1.level3.net!news.level3.com!bloom-beacon.mit.edu!
newsswitch.lcs.mit.edu!xmission!newsfeed2.telusplanet.net!newsfeed.telus.net!
news.glorb.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 11 Sep 2010 05:10:23 -0500
From: vk3akc <vk3akc.6d10ba8@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Mcl Sbl-1
Date: Sat, 11 Sep 2010 05:30:39 +0000
Message-ID: <vk3akc.6d10ba8@radiobanter.com>
Organization: RadioBanter.com
Lines: 38
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-gSBh/
dvqbtZaWrEdPAtp3382kLkoNhpzLR2nxeAR1h19FK3DCL67o9GvQZ7L8pzXNiGGgMRGrdz+okb!
xb72zGoklbC0j9k9J9V8V8DBqF0w6KaBSCxStGmUOdzgcmdlOfW3sOTySTZVl0sdO4bVyOINBIRd!l+D4
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 20
Xref: g2news1.google.com rec.radio.amateur.homebrew:3811
```

I have used this device before a long time ago in projects designed by
other people without problems.

I am now trying to build a project myself & have struck a basic
problem.

The project is a home made Spectrum analyzer and I am trying to mix L.O
of 15Mhz (approx) with the output of a video I.F strip of 39Mhz as RF
feeding a xtal filter of 21.4Mhz.

My problem is with the L.O.

The specs for the SBL-1 states that I need +7dbm and the input of the device is 50 ohms.

I can generate enough 15Mhz approx 2v p/p (+10dbm) as measured on a scope.
I then knocked up a 3db 50 ohm pad and terminated it into a 50 ohm load and all worked approx 1.4v p/p across the load.(+7dbm)

Next step is to remove the load and connect to the SBL-1 (pin 8) via the pad and the levels drop considerably to about 0.75v p/p +1-+2dbm with a little distortion on the +ve peak.

This seems to indicate to me that the mixer input is not 50 ohm but a lot lower. I tried terminating all other ports with 50 ohms with no noticeable difference. What am I missing?

Why can't I see the correct level in to the device. I have plenty of drive before the pad but it reduces when connected to the SBL-1.

I am missing something. Can anyone prompt me?

--
vk3akc

From 8114883289657458088
X-Google-Thread: fc2a5,56e676e828eca167
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feeder.erje.net!newsfeed.freenet.ag!news.netcologne.de!ramfeed1.netcologne.de!news.tele.dk!feed118.news.tele.dk!not-for-mail
From: "Sven Lundbech" <oz7s@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <vk3akc.6d10ba8@radiobanter.com>
Subject: Re: Mcl Sbl-1
Date: Sat, 11 Sep 2010 13:51:02 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Original
Lines: 36
Message-ID: <4c8b6d25$0$36560$edfadb0f@dtext01.news.tele.dk>
Organization: TDC Totalloesninger
NNTP-Posting-Host: 83.88.152.195
X-Trace: 1284205861 dtext01.news.tele.dk 36560 83.88.152.195:62102
X-Complaints-To: abuse@post.tele.dk

Xref: g2news1.google.com rec.radio.amateur.homebrew:3812

> This seems to indicate to me that the mixer input is not 50 ohm but a
> lot lower. I tried terminating all other ports with 50 ohms with no
> noticeable difference. What am I missing?
>
> Why can't I see the correct level in to the device. I have plenty of
> drive before the pad but it reduces when connected to the SBL-1.
>
> I am missing something. Can anyone prompt me?
>
>
>
>
> --
> vk3akc

You are on the right track: The SBL-1 LO port input impedance is not 50 ohms as you have correctly measured. On top of that, it is rather unlinear, i.e. drive level dependent.

Reason: LO drive has to turn mixer quad diodes in and out of conduction. The RF current needed for that depends on the instantaneous voltage/current point on the diode characteristic.

Conclusion: Important thing is that the three ports of the SBL-1 are terminated in 50 ohms, i.e. 'see' a low swr/return loss from the mixer's viewpoint. Your 3 dB pad adds nicely to that. You have done just the right thing.

Ease back and enjoy the result!

vy 73
OZ7S Sven

From -3660798229706018912
X-Google-Thread: fc2a5,56e676e828eca167
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!goblin3!gin-ad1-unet1.teleglobe.net!goblin2!goblin.stu.neva.ru!newsfeed01.sul.t-online.de!newsfeed00.sul.t-online.de!t-online.de!border2.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 11 Sep 2010 23:10:30 -0500
From: vk3akc <vk3akc.6d208c9@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Mcl Sbl-1
Date: Sun, 12 Sep 2010 02:30:44 +0000
Message-ID: <vk3akc.6d208c9@radiobanter.com>
Organization: RadioBanter.com
References: <vk3akc.6d10ba8@radiobanter.com>
<4c8b6d25$0$36560$edfadb0f@dtext01.news.tele.dk>
Lines: 54
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-YTo1utX9gT6ayyfZwwelA/gwxS8yX9GntQ4mYRLGd0nc8+Z9YnQ4NQ4/
R7JX23S9zl06pKjDDEim5Ba!Ic6xbZkFQKz6IE5bL2CYPzov6Nx+/
Y9qoJ912UTL7AX+COZ9NlcfN9hgYP0R7GXKst0fDpbAQTlS!R86G
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 40
X-Original-Bytes: 2388
Xref: g2news1.google.com rec.radio.amateur.homebrew:3814

Sven Lundbech;717996 Wrote:
> -
> This seems to indicate to me that the mixer input is not 50 ohm but a
> lot lower. I tried terminating all other ports with 50 ohms with no
> noticeable difference. What am I missing?
>
> Why can't I see the correct level in to the device. I have plenty of
> drive before the pad but it reduces when connected to the SBL-1.
>
> I am missing something. Can anyone prompt me?
>
>
>
>
> --
> vk3akc-
>
> You are on the right track: The SBL-1 LO port input impedance is not 50
> ohms
> as you have correctly measured. On top of that, it is rather unlinear,
> i.e.
> drive level dependent.
>
> Reason: LO drive has to turn mixer quad diodes in and out of conduction.
> The
> RF current needed for that depends on the instantaneous voltage/current
>
> point on the diode characteristic.
>
> Conclusion: Important thing is that the three ports of the SBL-1 are
> terminated in 50 ohms, i.e. 'see' a low swr/return loss from the mixer's
>

> viewpoint. Your 3 dB pad adds nicely to that. You have done just the
> right
> thing.
>
> Ease back and enjoy the result!
>
> vy 73
> OZ7S Sven

Thank you very much Sven for going to the trouble of answering my
query.

I will continue on with the next phase of the project with confidence.

Kind Regards
Kevin

--
vk3akc

```
From 7103787104311820041
X-Google-Thread: fc2a5,ff52df55007a24bf,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!t11g2000vbc.googlegroups.com!not-for-
mail
From: fitz <zeusrdx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Fitz (W2YDW) Finds a Fact! - - Phase Coherence is the reason for the
 binding attractive force in ALL the 4 fundamental forces, Proof of this is in
 the following:
Date: Sun, 12 Sep 2010 01:34:40 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <ba643a3d-c281-40db-b9d6-5fbd597e350f@t11g2000vbc.googlegroups.com>
NNTP-Posting-Host: 204.116.183.84
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1284280480 6158 127.0.0.1 (12 Sep 2010 08:34:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 12 Sep 2010 08:34:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t11g2000vbc.googlegroups.com; posting-host=204.116.183.84;
posting-account=A451vgoAAAByсJv5ugpkfX8QG96-xuRZ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0;
 Trident/4.0; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
 3.0.30618; yie8),gzip(gfe)
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:3815

Fitz Finds a Fact! - - Phase Coherence is the reason for the binding attractive force in ALL the 4 fundamental forces, Proof of this is in the following:

Our space is built up by the average amount elements are out of phase with each other.

Repulsive forces are generated between elements that are out of phase more than this average.

While elements more in phase, than this average (phase coherence), produce attractive forces.

http://www.amperefitz.com/phase.coherence.htm

Click link above -- Science!

From 8595000124535246838
X-Google-Thread: fc2a5,fe9b8c639cc300a6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!y31g2000vbt.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homemade 2m FM transceiver?
Date: Sun, 12 Sep 2010 12:49:08 -0700 (PDT)
Organization: http://groups.google.com
Lines: 12
Message-ID: <66a0c75f-c50b-4ac7-b6b0-5acc53dd08d2@y31g2000vbt.googlegroups.com>
References: <4c8a3b0c$0$27042$65785112@news.neostrada.pl>
NNTP-Posting-Host: 99.92.116.155
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1284320948 17302 127.0.0.1 (12 Sep 2010 19:49:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 12 Sep 2010 19:49:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y31g2000vbt.googlegroups.com; posting-host=99.92.116.155; posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.9) Gecko/20100825 Ubuntu/10.04 (lucid) Firefox/3.6.9,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3816

On Sep 10, 10:05=A0am, Atlantis <marekw1986NOS...@wp.pl> wrote:
> Do anyone of you know such project, worth or recommending?

Hey OT:
Yeah in my dreams: I'm like to using a 74hc4066 pll has a 160mhz
bandwidth at 12 volts, a couple ne604/2 balanced de/modulator, slapped
in some tone boards, a keypad and decoder, a small color screen and a
pic cpu to run it all, for memory i'm using an USB flash drive.
Sweet.

73 OT
de n8zu

```
From -3712837280550258479
X-Google-Thread: fc2a5,fe9b8c639cc300a6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!c21g2000vba.googlegroups.com!not-for-mail
From: Gary <jgboyles@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homemade 2m FM transceiver?
Date: Sun, 12 Sep 2010 15:11:58 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <a5734f3a-0758-43b0-a19e-35cdd7e9ba37@c21g2000vba.googlegroups.com>
References: <4c8a3b0c$0$27042$65785112@news.neostrada.pl> <66a0c75f-c50b-4ac7-b6b0-5acc53dd08d2@y31g2000vbt.googlegroups.com>
NNTP-Posting-Host: 205.188.117.19
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1284329518 21366 127.0.0.1 (12 Sep 2010 22:11:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 12 Sep 2010 22:11:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c21g2000vba.googlegroups.com; posting-host=205.188.117.19; posting-account=EDccDAkAAAABP46fNoIwHp5AsVAkR7WJ
User-Agent: G2/1.0
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.2 [uScMs f p eN:t cCMp s ]), HTTP/1.1
 spider-dtc-te01.proxy.aol.com[CDBC7081] (Prism/1.2.1), HTTP/1.1
 cache-dtc-ae15.proxy.aol.com[CDBC7513] (Traffic-Server/6.1.5 [uScM])
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
 Trident/4.0; GTB6.5; SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
 3.5.30729; InfoPath.2; .NET CLR 3.0.30729; .NET4.0C),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3817
```

On Sep 12, 2:49=A0pm, raypsi <rborow...@gmail.com> wrote:

> On Sep 10, 10:05=A0am, Atlantis <marekw1986NOS...@wp.pl> wrote:
>
> > Do anyone of you know such project, worth or recommending?
>
> Hey OT:

```
> Yeah in my dreams: I'm like to using a 74hc4066 pll has a 160mhz
> bandwidth at 12 volts, a couple ne604/2 balanced de/modulator, slapped
> in some tone boards, a keypad and decoder, a small color screen and a
> pic cpu to run it all, =A0for memory i'm using an USB flash drive.
> Sweet.
>
> 73 OT
> de n8zu

Shouldn't you be dreaming of a 74HC4046 PLL, a 4066 is a quad
bilateral switch.

Gary N4AST



From 8490830388014023576
X-Google-Thread: fc2a5,fe9b8c639cc300a6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 12 Sep 2010 17:37:53 -0500
Date: Sun, 12 Sep 2010 22:37:52 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.9) Gecko/
20100825 Thunderbird/3.1.3
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homemade 2m FM transceiver?
References: <4c8a3b0c$0$27042$65785112@news.neostrada.pl> <66a0c75f-c50b-4ac7-
b6b0-5acc53dd08d2@y31g2000vbt.googlegroups.com> <a5734f3a-0758-43b0-
a19e-35cdd7e9ba37@c21g2000vba.googlegroups.com>
In-Reply-To: <a5734f3a-0758-43b0-a19e-35cdd7e9ba37@c21g2000vba.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <MfadnUYnBYfcyxDRnZ2dnUVZ_gidnZ2d@bright.net>
Lines: 9
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-ebwafwdIJ+gHul/
xumvLoLwOzpXAPR24YiTYcwd5cPHiyXy6vTyEFArvERvAuYrlgxDRPWrn7gIjuDf!
1FhtGUe9v1vNMZawg6i7IFps+8mPnmq+Cotd9QioUmdCRRtdJw8UUPFr6SkLFPZaDACg/v0xlEIH!
AcBdkqumZA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3818

On 9-12-2010 22:11, Gary wrote:
> On Sep 12, 2:49 pm, raypsi<rborow...@gmail.com>  wrote:
```

```
>> On Sep 10, 10:05 am, Atlantis<marekw1986NOS...@wp.pl>  wrote:
>>
>>> Do anyone of you know such project, worth or recommending?
>>

There are still people using 2M FM?  Huh.




From 5018348844629971794
X-Google-Thread: fc2a5,fe9b8c639cc300a6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!feeder.news-
service.com!85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: highlandham <highlandham@rfburns.invalid.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homemade 2m FM transceiver?
Date: Mon, 13 Sep 2010 12:02:01 +0100
Organization: A noiseless patient Spider
Lines: 13
Message-ID: <i6l0b9$krn$1@news.eternal-september.org>
References: <4c8a3b0c$0$27042$65785112@news.neostrada.pl> <66a0c75f-c50b-4ac7-
b6b0-5acc53dd08d2@y31g2000vbt.googlegroups.com> <a5734f3a-0758-43b0-
a19e-35cdd7e9ba37@c21g2000vba.googlegroups.com>
<MfadnUYnBYfcyxDRnZ2dnUVZ_gidnZ2d@bright.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Mon, 13 Sep 2010 11:02:02 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="yfj1XPDXrBYcXpTvpXN2Tw";
     logging-data="21367"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+lBCWuecOrBt1b5Ru8SN6dnsC3aC/gk/Q="
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.7) Gecko/20100730
Mandriva/3.1.1-0.1mdv2010.1 (2010.1) Thunderbird/3.1.1
In-Reply-To: <MfadnUYnBYfcyxDRnZ2dnUVZ_gidnZ2d@bright.net>
Cancel-Lock: sha1:gqDOttmasFg8RmqrWa92ycw80vw=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3819

On 12. sep. 2010 23:37, Scott wrote:
> On 9-12-2010 22:11, Gary wrote:
>> On Sep 12, 2:49 pm, raypsi<rborow...@gmail.com> wrote:
>>> On Sep 10, 10:05 am, Atlantis<marekw1986NOS...@wp.pl> wrote:
>>>
>>>> Do anyone of you know such project, worth or recommending?
>>>
>
> There are still people using 2M FM? Huh.
=============================
Obviously ; all 2m repeaters are FM
```

Frank GM0CSZ / KN6WH

From -4263052537177732403
X-Google-Thread: fc2a5,fe9b8c639cc300a6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!c32g2000vbq.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homemade 2m FM transceiver?
Date: Mon, 13 Sep 2010 08:20:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <0d3536a7-399d-403c-8bd9-10995f934a45@c32g2000vbq.googlegroups.com>
References: <4c8a3b0c$0$27042$65785112@news.neostrada.pl> <66a0c75f-c50b-4ac7-b6b0-5acc53dd08d2@y31g2000vbt.googlegroups.com>
 <a5734f3a-0758-43b0-a19e-35cdd7e9ba37@c21g2000vba.googlegroups.com>
NNTP-Posting-Host: 99.92.116.155
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1284391223 15480 127.0.0.1 (13 Sep 2010 15:20:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 13 Sep 2010 15:20:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c32g2000vbq.googlegroups.com; posting-host=99.92.116.155; posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.9)
 Gecko/20100825 Ubuntu/10.04 (lucid) Firefox/3.6.9,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3820

On Sep 12, 6:11=A0pm, Gary <jgboy...@aol.com> wrote:
> On Sep 12, 2:49=A0pm, raypsi <rborow...@gmail.com> wrote:
>
> > On Sep 10, 10:05=A0am, Atlantis <marekw1986NOS...@wp.pl> wrote:
>
> > > Do anyone of you know such project, worth or recommending?
>

> Shouldn't you be dreaming of a 74HC4046 PLL, a 4066 is a quad
> bilateral switch.
>
> Gary N4AST

Hey OT:

That dream is just a throw back from the ole magazine days when they
always put in errors then 3 months later you gets the correction. Plus
a 74hc4046 can only run up to 7volts Vcc

So the correction would be running a 74hc4066 as a pll. One switch as
the VCO and a couple diode for the comparator. and another switch as
for the xtal OSC and another switch for a low pass filter.

Or if you do use a 74hc4046 you just upconvert and downconvert
everything and run it at 6 volts. Cause about 10Mhz is all you can
gets out of a 74hc40466 at 6 volts

From 3781999494491105007
X-Google-Thread: fc2a5,fe9b8c639cc300a6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 13 Sep 2010 12:48:52 -0500
Date: Mon, 13 Sep 2010 17:48:53 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.9) Gecko/
20100825 Thunderbird/3.1.3
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homemade 2m FM transceiver?
References: <4c8a3b0c$0$27042$65785112@news.neostrada.pl> <66a0c75f-c50b-4ac7-
b6b0-5acc53dd08d2@y31g2000vbt.googlegroups.com> <a5734f3a-0758-43b0-
a19e-35cdd7e9ba37@c21g2000vba.googlegroups.com>
<MfadnUYnBYfcyxDRnZ2dnUVZ_gidnZ2d@bright.net> <i6l0b9$krn$1@news.eternal-
september.org>
In-Reply-To: <i6l0b9$krn$1@news.eternal-september.org>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <ad6dnYOLUM2Z-RPRnZ2dnUVZ_tSdnZ2d@bright.net>
Lines: 18
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
COvtHob0J65CfHspPt620CbC00hDH0GhgROGoRrTM8nTMFpVDmSGRGGFx5ISWnXtQ7hIKnN+KH1+hbQ!
gEup3ZL163JnmpLQf8wf8b3msKeg7ljQSsSyVKrNRwFaTYBgO5Pghu9Bead5RqSaYGUcMY1bxhTu!
RCwrLyrs1g==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3821

On 9-13-2010 11:02, highlandham wrote:
> On 12. sep. 2010 23:37, Scott wrote:
>> On 9-12-2010 22:11, Gary wrote:
>>> On Sep 12, 2:49 pm, raypsi<rborow...@gmail.com> wrote:
>>>> On Sep 10, 10:05 am, Atlantis<marekw1986NOS...@wp.pl> wrote:

```
>>>>
>>>>> Do anyone of you know such project, worth or recommending?
>>>>
>>
>> There are still people using 2M FM? Huh.
> ============================
> Obviously ; all 2m repeaters are FM
>
> Frank GM0CSZ / KN6WH

My point exactly.  I drive a lot with my job and I used to call "N0EDV
monitoring" on every repeater I travel by.  Not a single response in
over 5 years, so I gave up calling....


From 9138334465658863054
X-Google-Thread: fc2a5,fe9b8c639cc300a6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: highlandham <highlandham@rfburns.invalid.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homemade 2m FM transceiver?
Date: Mon, 13 Sep 2010 20:32:52 +0100
Organization: A noiseless patient Spider
Lines: 26
Message-ID: <i6lu96$ne5$1@news.eternal-september.org>
References: <4c8a3b0c$0$27042$65785112@news.neostrada.pl> <66a0c75f-c50b-4ac7-
b6b0-5acc53dd08d2@y31g2000vbt.googlegroups.com> <a5734f3a-0758-43b0-
a19e-35cdd7e9ba37@c21g2000vba.googlegroups.com>
<MfadnUYnBYfcyxDRnZ2dnUVZ_gidnZ2d@bright.net> <i6l0b9$krn$1@news.eternal-
september.org> <ad6dnYOLUM2Z-RPRnZ2dnUVZ_tSdnZ2d@bright.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Mon, 13 Sep 2010 19:32:55 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="yfj1XPDXrBYcXpTvpXN2Tw";
     logging-data="24005"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/7K/K9pJjs6sE1KVa2GCNptbn2VSo1HNA="
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.7) Gecko/20100730
Mandriva/3.1.1-0.1mdv2010.1 (2010.1) Thunderbird/3.1.1
In-Reply-To: <ad6dnYOLUM2Z-RPRnZ2dnUVZ_tSdnZ2d@bright.net>
Cancel-Lock: sha1:SBbHalBwTX7vI3JCgm71+CbujoI=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3822

On 13. sep. 2010 18:48, Scott wrote:
> On 9-13-2010 11:02, highlandham wrote:
>> On 12. sep. 2010 23:37, Scott wrote:
>>> On 9-12-2010 22:11, Gary wrote:
>>>> On Sep 12, 2:49 pm, raypsi<rborow...@gmail.com> wrote:
```

```
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>>>>>
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>> ============================
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>>
>> Frank GM0CSZ / KN6WH
>
> My point exactly. I drive a lot with my job and I used to call "N0EDV
> monitoring" on every repeater I travel by. Not a single response in over
> 5 years, so I gave up calling....
============================
Similar situation here in the north of Scotland . Usually there is some
traffic after 1800 hrs when people return home ,but during the day
veeery little response. One reason is obviously low population numbers
in this part of the world.

Frank   GM0CSZ / KN6WH


From -7447276396295301679
X-Google-Thread: fc2a5,fe9b8c639cc300a6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!news.mixmin.net!
news2.arglkargh.de!news.wiretrip.org!newsfeed.xs4all.nl!newsfeed5.news.xs4all.nl!
xs4all!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Homemade 2m FM transceiver?
References: <4c8a3b0c$0$27042$65785112@news.neostrada.pl>
 <66a0c75f-c50b-4ac7-b6b0-5acc53dd08d2@y31g2000vbt.googlegroups.com>
 <a5734f3a-0758-43b0-a19e-35cdd7e9ba37@c21g2000vba.googlegroups.com>
 <MfadnUYnBYfcyxDRnZ2dnUVZ_gidnZ2d@bright.net>
 <i6l0b9$krn$1@news.eternal-september.org>
 <ad6dnYOLUM2Z-RPRnZ2dnUVZ_tSdnZ2d@bright.net>
 <i6lu96$ne5$1@news.eternal-september.org>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrni8t03h.b4h.nomail@xs8.xs4all.nl>
Date: 13 Sep 2010 19:50:09 GMT
Lines: 60
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1284407409 news.xs4all.nl 41120 [::ffff:194.109.21.8]:44224
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:3823
```

highlandham <highlandham@rfburns.invalid.eu> wrote:
> On 13. sep. 2010 18:48, Scott wrote:
>> On 9-13-2010 11:02, highlandham wrote:
>>> On 12. sep. 2010 23:37, Scott wrote:
>>>> On 9-12-2010 22:11, Gary wrote:
>>>>> On Sep 12, 2:49 pm, raypsi<rborow...@gmail.com> wrote:
>>>>>> On Sep 10, 10:05 am, Atlantis<marekw1986NOS...@wp.pl> wrote:
>>>>>>
>>>>>>> Do anyone of you know such project, worth or recommending?
>>>>>>
>>>>
>>>> There are still people using 2M FM? Huh.
>>> =============================
>>> Obviously ; all 2m repeaters are FM
>>>
>>> Frank GM0CSZ / KN6WH
>>
>> My point exactly. I drive a lot with my job and I used to call "N0EDV
>> monitoring" on every repeater I travel by. Not a single response in over
>> 5 years, so I gave up calling....
> ============================
> Similar situation here in the north of Scotland . Usually there is some
> traffic after 1800 hrs when people return home ,but during the day
> veeery little response. One reason is obviously low population numbers
> in this part of the world.

Has it been different in your country?

Over here there has been a very high peak of 2m usage in the late seventies, early eighties of the last century. In those days, there was a clear demand for a legal radio communication hobby. CB was illegal here, and around 1976 there a novice license was introduced that allowed use of 6 frequencies in the 2 meter band. Later that was extended to all of 145-145.8 MHz and the license, which used to be only for 2 years, was made permanent.
At the same time, the "technicians license" (no morse code) which allowed use of all bands above 144 MHz became very popular.
Hundreds of new licenses were isssued every exam round.

In those days, 2 meters was really crowded here. It could take quite some time to find a clear channel, especially in the novice subband.

Later, around 1985, packet radio became very popular and the frequencies assigned to it became very crowded (even though the novice licensees were not allowed to use it).

All this time dx-ing in CW and SSB in the lower part of the band was also quite popular, one could tune to 144.050 or 144.300 every day and hear activity. In contests the whole SSB band was piled up with stations.

Of course from the ninetees it has been decaying, and today there are only a few frequencies where local groups are QRV and sometimes talking a little. The repeaters are mostly silent, and a random traveller calling

will probably get not much response either.
(what is left on the bands usually talks to eachother in their local
group only; random QSO with a stranger is not happening much anymore)

When I became a ham in 1978 I built my own 2m transceiver... it was
loosely based on a design by PA0KSB that appeared in Electron, the
club newsletter.

```
From -1615563317989742331
X-Google-Thread: fc2a5,ef1edb0a452f183e,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!postnews.google.com!c13g2000vbr.googlegroups.com!not-for-
mail
From: derekw <derekw1572@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Is this possible?
Date: Tue, 14 Sep 2010 23:13:34 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <ceb5eeed-8b15-4084-9cc6-234d95d03363@c13g2000vbr.googlegroups.com>
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Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1284531218 3627 127.0.0.1 (15 Sep 2010 06:13:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 15 Sep 2010 06:13:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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 .NET CLR 2.0.50727; eSobiSubscriber 2.0.4.16; .NET CLR 3.0.4506.2152; .NET
 CLR 3.5.30729),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3824
```

He makes it seem so easy on his site. It seems like a well put
together site and product, but I just wonder how true his numbers are.
I'm really thinking about trying it. He has success stories from
people that put them on youtube. It seems like it may work.

(from his site)
As the 2010 Christmas season draws nearer, a pioneering holiday
lighting business course has been released to the public. Entrepreneur
Tanner Larsson=92s new turn key business course, known as =91Cashing in on
Christmas=92 provides step by step training on how to set up a
successful Christmas light installation business from the home,
without the extensive learning curve most start ups face.

```
Check it out and tell me what you guys think. possible or not?
http://tinyurl.com/32cashinonchristmas



From 4401130154393015976
X-Google-Thread: fc2a5,ef1edb0a452f183e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: david <none@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SPAM
Date: Wed, 15 Sep 2010 23:46:35 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 4
Message-ID: <i6rlsr$3jk$1@news.eternal-september.org>
References: <ceb5eeed-8b15-4084-9cc6-234d95d03363@c13g2000vbr.googlegroups.com>
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	posting-account="U2FsdGVkX18cB6XksgIz1dFXwZ7ZddKr"
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Xref: g2news1.google.com rec.radio.amateur.homebrew:3825

On Tue, 14 Sep 2010 23:13:34 -0700, derekw rearranged some electrons to
say:

> SPAM



From 6521471963691250594
X-Google-Thread: fc2a5,ef1edb0a452f183e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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service.com!xlned.com!feeder5.xlned.com!feeder2.cambriumusenet.nl!
feed.tweaknews.nl!posting.tweaknews.nl!not-for-mail
From: "pa5tig" <pa5tig(at)@amsat.org>
Newsgroups: rec.radio.amateur.homebrew
References: <ceb5eeed-8b15-4084-9cc6-234d95d03363@c13g2000vbr.googlegroups.com>
<i6rlsr$3jk$1@news.eternal-september.org>
Subject: Re: SPAM
Date: Sat, 18 Sep 2010 09:53:36 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
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Organization: Tele2
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UId8ViZ2V
Xref: g2news1.google.com rec.radio.amateur.homebrew:3827

try it
The only one gainig will be him.

"david" <none@nospam.com> schreef in bericht
news:i6rlsr$3jk$1@news.eternal-september.org...
> On Tue, 14 Sep 2010 23:13:34 -0700, derekw rearranged some electrons to
> say:
>
>> SPAM




From -7621749659650439872
X-Google-Thread: fc2a5,8c2fb9e9acc8dd91,start
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X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
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mail
From: claudeh <hclaudioblanco@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Availables : More that 3750 Solutions manuals and Test Banks (Part 1)
Date: Mon, 20 Sep 2010 01:24:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 2415
Message-ID: <f8a90abf-7167-4dab-a4b8-39998e5f28dc@k13g2000vbq.googlegroups.com>
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Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 20 Sep 2010 08:24:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k13g2000vbq.googlegroups.com; posting-host=190.40.50.232; posting-
account=mFFJOAoAAABaIQEBRX5f95y3rtsFRjms
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.0; es-ES; rv:1.9.2.10)
 Gecko/20100914 Firefox/3.6.10 ( .NET CLR 3.5.30729; .NET4.0C),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3828

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contact me to :   mattosbw1@gmail.com   mattosbw1(at)gmail.com

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From 5756693906794665438
X-Google-Thread: fc2a5,acb027d57bf82920,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!n7g2000vbo.googlegroups.com!not-for-
mail
From: claudeh <hclaudioblanco@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Availables : More that 3750 Solutions manuals and Test Banks (Part 2)
Date: Mon, 20 Sep 2010 01:27:06 -0700 (PDT)
Organization: http://groups.google.com
Lines: 1610
Message-ID: <2f1bb086-fb20-4a64-ab1e-3f8381af2dd0@n7g2000vbo.googlegroups.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1284971226 20052 127.0.0.1 (20 Sep 2010 08:27:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 20 Sep 2010 08:27:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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From -4003723221915362368
X-Google-Thread: fc2a5,a5638e613b82a84c,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!m16g2000vbs.googlegroups.com!not-for-mail
From: claudeh <hclaudioblanco@gmail.com>
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Subject: Availables : More that 3750 Solutions manuals and Test Banks (Part 3)
Date: Mon, 20 Sep 2010 18:01:44 -0700 (PDT)
Organization: http://groups.google.com
Lines: 1798
Message-ID: <641b3c20-4c84-4094-b054-0d7e9a3d2f4f@m16g2000vbs.googlegroups.com>
NNTP-Posting-Host: 190.40.91.191
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1285030905 27003 127.0.0.1 (21 Sep 2010 01:01:45 GMT)
X-Complaints-To: groups-abuse@google.com
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Injection-Info: m16g2000vbs.googlegroups.com; posting-host=190.40.91.191; posting-account=mFFJOAoAAABaIQEBRX5f95y3rtsFRjms
User-Agent: G2/1.0
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Solution manual Materials Science and Engineering : An Introduction (6th Ed., William Callister)
Solution manual Materials Science and Engineering : An Introduction (7th Ed., William Callister)
Solution manual Materials Science and Engineering : An Introduction

(8th Ed., William Callister)
Solution manual Fundamentals of Materials Science and Engineering : Integrated Approach (2nd Ed., William Callister)
Solution manual Fundamentals of Materials Science and Engineering : Integrated Approach (3rd Ed., William Callister)
Solution manual Science and Design of Engineering Materials (2nd Ed., Schaffer, Saxena, et al)
Solution manual Manual of Mineral Science (23rd Ed., Cornelis Klein & Barbara Dutrow)
Solution manual Materials and Processes in Manufacturing (9th Ed., E. Paul DeGarmo, J. T. Black, Ronald A. Kohser)
Solution manual DeGarmo's Materials and Processes in Manufacturing (10th Ed., E. Paul DeGarmo, J. T. Black, Ronald A. Kohser)
Solution manual Foundations of Materials Science and Engineering (3rd Ed, Smith)
Solution manual Foundations of Materials Science and Engineering (4th Ed, Smith & Hashemi)
Solution manual Foundations of Materials Science and Engineering (5th Ed, Smith & Hashemi)
Solution manual Engineering Materials Science (Milton Ohring)
Solution manual Metal Fatigue in Engineering (2nd Ed., Stephens, Fatemi & Fuchs)
Solution manual Mechanical Behavior of Materials (3rd Ed. Dowling)
Solution manual Mechanical Behavior of Materials (W.F. Hosford)
Solution manual Mechanical Behavior of Materials (Keith Bowman)
Solution manual Deformation and Fracture Mechanics of Engineering Materials (4th Ed., Richard Hertzberg)
Solution manual From Polymers to Plastics (A.K. van der Vegt)
Solution manual Nanoengineering of Structural, Functional and Smart Materials (Mark Schulz, Ajit Kelkar, Mannur Sundaresan)
Solution manual Principles Of Polymer Systems (5th Ed., by Ferdinand Rodriguez, Claude Cohen, Christopher Ober, Lynden Archer)
Solution manual Introduction to the Thermodynamics of Materials (4th Ed. David Gaskell)
Solution manual Structure and Properties of Engineering Materiales (5th Ed., Daniel Henkel & Alan Pense)
Solution manual Plastics : Materials and Processing (3rd Ed., Strong)
Solution manual Engineering Materials : Properties and Selection (8th Ed., Budinski)
Solution manual Engineering Materials : Properties and Selection (9th Ed., Budinski)
Solution manual Introduction to Materials Science for Engineers (6th Ed., Shackelford)
Solution manual Introduction to Materials Science for Engineers (7th Ed., Shackelford)
Solution manual Introduction to Materials Science for Engineers - International Edition (7th Ed., Shackelford)
Solution manual Creative Design of Products and Systems (Saeed Niku)
Solution manual Materials : Engineering, Science, Processing and Design (1st Ed., Michael Ashby, Hugh Shercliff & David Cebon)
Solution manual Materials : Engineering, Science, Processing and Design (2nd Ed., Michael Ashby, Hugh Shercliff & David Cebon)
Solution manual Engineering Materials Vol. 1 : An Introduction to

Properties, Applications and Design (3rd Ed., Michael Ashby & David Jones)
Solution manual Engineering Materials Vol. 2 : An Introduction to Microstructures, Processing and Design (3rd Ed., Michael Ashby & David Jones)
Solution manual Materials and the Environment : Eco-informed Material Choice (Michael Ashby)
Solution manual Principles of Corrosion Engineering and Corrosion Control (Zaki Ahmad)
Solution manual Analysis and Performance of Fiber Composites (3rd Ed., Bhagwan Agarwal, Lawrence Broutman & K. Chandrashekhara)
Solution manual Basic Engineering Plasticity : An Introduction with Engineering and Manufacturing Applications (David Rees)
Solution manual Steels : Microstructure and Properties (3rd Ed. Bhadeshia & Honeycombe)
Solution manual Theory of Plasticity (3rd Ed. Jagabanduhu Chakrabarty)
Solution manual Plastics : Microstructure and Engineering Applications (3rd Ed., Nigel Mills)
Solution manual Laser Processing of Engineering Materials : Principles, Procedure and Industrial Application (John Ion)
Solution manual Sintering : Densification, Grain Growth and Microstructure (Suk-Joong Kang)
Solution manual Biomaterials : An Introduction (3rd Ed., Joon Park & R.S. Lakes)
Solution manual Biomaterials : The Intersection of Biology and Materials Science (Temenoff & Mikos)
Solution manual Biomaterials Science : An Introduction to Materials in Medicine (2nd Ed., Ratner, Hoffman, Schoen & Lemons)
Solution manual Tissue Engineering (Bernhard O. Palsson & Sangeeta N. Bhatia)
Solution manual Tissue Engineering (Clemens van Blitterswijk, et al.)
Solution manual Introduction to Materials Management (6th Ed., Arnold, Chapman & Clive)
Solution manual Fundamentals of Solid State Engineering (2nd Ed., Manijeh Razeghi)
Solution manual Smart Electronic Materials : Fundamentals and Applications (Jasprit Singh)
Solution manual Composite Materials : Science and Engineering (2nd Ed., Krishan K. Chawla)
Solution manual Laminar Composites (George Staab)
Solution manual Physical Metallurgy and Advanced Materials (7th Ed., R.E. Smallman & A.H.W. Ngan)

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contact me to : mattosbw1@gmail.com
mattosbw1(at)gmail.com

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```
From 4776695011725152727
X-Google-Thread: fc2a5,fe9b8c639cc300a6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
cyclone01.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf01.ams.highwinds-media.com!newsfe30.ams2.POSTED!00000000!not-for-mail
From: "Nikon D3000" <moriarty@uncletom.cobleigh.com>
Newsgroups: rec.radio.amateur.homebrew
References: <4c8a3b0c$0$27042$65785112@news.neostrada.pl> <66a0c75f-c50b-4ac7-
b6b0-5acc53dd08d2@y31g2000vbt.googlegroups.com> <a5734f3a-0758-43b0-
a19e-35cdd7e9ba37@c21g2000vba.googlegroups.com>
<MfadnUYnBYfcyxDRnZ2dnUVZ_gidnZ2d@bright.net>
Subject: Re: Homemade 2m FM transceiver?
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <KBumo.3680$HG7.2923@newsfe30.ams2>
NNTP-Posting-Host: 86.15.200.53
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe30.ams2 1285191146 86.15.200.53 (Wed, 22 Sep 2010 21:32:26 UTC)
NNTP-Posting-Date: Wed, 22 Sep 2010 21:32:26 UTC
Organization: virginmedia.com
Date: Wed, 22 Sep 2010 22:32:21 +0100
Xref: g2news1.google.com rec.radio.amateur.homebrew:3833


"Scott" <acepilotREMOVE@bloomer.net> wrote in message
news:MfadnUYnBYfcyxDRnZ2dnUVZ_gidnZ2d@bright.net...
> On 9-12-2010 22:11, Gary wrote:
>> On Sep 12, 2:49 pm, raypsi<rborow...@gmail.com>  wrote:
>>> On Sep 10, 10:05 am, Atlantis<marekw1986NOS...@wp.pl>  wrote:
>>>
>>>> Do anyone of you know such project, worth or recommending?
>>>
>
> There are still people using 2M FM?  Huh.
>
Only CBers over here in the UK




From 118043664327759849
X-Google-Thread: fc2a5,f54035a824d5864a,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!j30g2000vbr.googlegroups.com!not-for-mail
From: The Eternal Squire <eternalsquire@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: If I built it, will they come?
Date: Wed, 22 Sep 2010 22:04:48 -0700 (PDT)
Organization: http://groups.google.com
Lines: 9
Message-ID: <f452de57-6ad1-498c-8ee8-f63b5ed49a8e@j30g2000vbr.googlegroups.com>
NNTP-Posting-Host: 209.33.95.79
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1285218395 28708 127.0.0.1 (23 Sep 2010 05:06:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 23 Sep 2010 05:06:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j30g2000vbr.googlegroups.com; posting-host=209.33.95.79; posting-account=NGBBuwoAAACAVxFd0rmWzjv3rJTndRji
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0;
 Trident/4.0; FunWebProducts; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729;
 .NET CLR 3.0.30618; .NET4.0C),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3834

All,

Thinking of practical ways to alleviate my boredom, I'm wondering if I
can convert my junk box to cash?

If I build quality QRP gear and advertise it on etsy or ebay as
handbuilt gear, will people buy it?

The Eternal Squire

From -2295195720215288370
X-Google-Thread: fc2a5,f54035a824d5864a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 23 Sep 2010 06:07:04 -0500
Date: Thu, 23 Sep 2010 11:07:04 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.9) Gecko/20100825 Thunderbird/3.1.3
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: If I built it, will they come?
References: <f452de57-6ad1-498c-8ee8-f63b5ed49a8e@j30g2000vbr.googlegroups.com>

In-Reply-To: <f452de57-6ad1-498c-8ee8-f63b5ed49a8e@j30g2000vbr.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <3vidnTeYRLxFqQbRnZ2dnUVZ_radnZ2d@bright.net>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
bIXDFcFWJHp9wbznaBoiEnGPfQ65AufeExUxUmDHkj0yS9WCTH77fXUGJpt5Lufme05NYHPsWBe9iTp!
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JrsIsiU7rQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3836

On 9-23-2010 05:04, The Eternal Squire wrote:

> All,
>
> Thinking of practical ways to alleviate my boredom, I'm wondering if I
> can convert my junk box to cash?
>
> If I build quality QRP gear and advertise it on etsy or ebay as
> handbuilt gear, will people buy it?
>
> The Eternal Squire

With some of the stuff I see sold on eBay, I think a guy could sell fake rubber dog shit from Hong Kong! So, if it's not horribly expensive or time-consuming to build, give one a try :) Worst case, you'd have a new QRP rig in the shack :) Of course, that's just my opinion ;)

From 6467424433419846826
X-Google-Thread: fc2a5,ebfc414962f77551,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 23 Sep 2010 07:10:49 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Upgrading an old Yaesu FRG-7
From: clifford wright <c.c.wright@paradise.net.nz>
Organization: Wright retro radio
Message-ID: <Xns9DFD1D5FCCAAcrite40@216.196.97.131>
User-Agent: Xnews/5.04.25
Date: Thu, 23 Sep 2010 07:10:50 -0500
Lines: 22

X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Y95KxZDcZF1pCRRa1aR/3ZmGfRvEEt78CdmH/obsoBvegY/0VBv6peGr80vlOk1g3oGEL3VnsTMEO0m!Me6Po2LOOh6YOexjNgRdyJ8gHx/73WkeSjHth7S1Mquxj2uz+l13mbONkmxnjRKd
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3837

Good Day all!
I have recently got one of these sets and am rapidly upgrading the original design.
So far it has a Kokusai Mech filter, manual and AGC Rf gain control on the RF stage. It has also had improvements to its AGC system and I am about to update the RF stage FET.
One problem has arisen and someone might be able to help me here.
The Kokusai filter is NOT actually on 455 kHz, it's actual centre frequency is 454.2 kHz (measured against a calibrated frequency counter), Since the self excited BFO is NOT drift free I want to replace it with USB/LSB Xtals.
Can you still get the old time FT241 types, or does anyone know a source of odd frequencies in the 455/465 kHz IF range?
I calculate that the the old FT241 channels I would need would be 328 and 326. That would give me BFO frequencies of 455.55 (should be 455.7) and 452.7 kHz that fits in with the odd filter.
That way one of the main sources of drift should be almost gone.
I have found that the FRG-7 has its problems, but, as someone who has designed and built many communication receivers over the years IMO it is the basis for quite a useful general coverage receiver and a VERY useful bit of test gear with noise bridges etc.
Any suggestions gratefully received.
73's Cliff Wright ZL1BDA ex G3NIA New Zealand.

From 8367460536578502400
X-Google-Thread: fc2a5,fe9b8c639cc300a6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!news2.glorb.com!tr22g12.aset.psu.edu!not-for-mail
From: Michael Coslo <mjc5@psu.edu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homemade 2m FM transceiver?
Date: Thu, 23 Sep 2010 14:04:16 -0400
Organization: Penn State University, Academic Services and Emerging Technology
Lines: 19
Message-ID: <i7g4r0$o47q$1@tr22n12.aset.psu.edu>
References: <4c8a3b0c$0$27042$65785112@news.neostrada.pl> <66a0c75f-c50b-4ac7-b6b0-5acc53dd08d2@y31g2000vbt.googlegroups.com> <a5734f3a-0758-43b0-

a19e-35cdd7e9ba37@c21g2000vba.googlegroups.com>
<MfadnUYnBYfcyxDRnZ2dnUVZ_gidnZ2d@bright.net> <i6l0b9$krn$1@news.eternal-september.org> <ad6dnYOLUM2Z-RPRnZ2dnUVZ_tSdnZ2d@bright.net>
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NNTP-Posting-Host: nat4.arl.psu.edu
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X-Complaints-To: usenet@tr22n12.aset.psu.edu
NNTP-Posting-Date: Thu, 23 Sep 2010 18:04:16 +0000 (UTC)
User-Agent: Thunderbird 2.0.0.24 (Macintosh/20100228)
In-Reply-To: <slrni8t03h.b4h.nomail@xs8.xs4all.nl>
Xref: g2news1.google.com rec.radio.amateur.homebrew:3838

Rob wrote:

>
> Of course from the ninetees it has been decaying, and today there are only
> a few frequencies where local groups are QRV and sometimes talking a
> little. The repeaters are mostly silent, and a random traveller calling
> will probably get not much response either.
> (what is left on the bands usually talks to eachother in their local
> group only; random QSO with a stranger is not happening much anymore)

I guess it depends on where you are. In my neighborhood, most of the repeaters are pretty busy.

What I have found is that if you want traffic, generate some traffic. Get on and talk with someone. You'll find that there will be more traffic. We get travelers, and there's someone on most of the time, although I wouldn't expect much traffic in the wee AM hours.

- Mike -

From -6259923126776582170
X-Google-Thread: fc2a5,ebfc414962f77551
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!cyclone03.ams2.highwinds-media.com!news.highwinds-media.com!npeersf01.ams.highwinds-media.com!newsfe14.ams2.POSTED!00000000!not-for-mail
From: "Nikon D3000" <moriarty@uncletom.cobleigh.com>
Newsgroups: rec.radio.amateur.homebrew
References: <Xns9DFD1D5FCCAAcrite40@216.196.97.131>
Subject: Re: Upgrading an old Yaesu FRG-7
Lines: 3
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843

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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <glQmo.350$4o3.182@newsfe14.ams2>
NNTP-Posting-Host: 86.15.200.53
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe14.ams2 1285280204 86.15.200.53 (Thu, 23 Sep 2010 22:16:44 UTC)
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Organization: virginmedia.com
Date: Thu, 23 Sep 2010 23:16:39 +0100
Xref: g2news1.google.com rec.radio.amateur.homebrew:3839

Some folks just can't leave well alone!




From 4278640568518764428
X-Google-Thread: fc2a5,402a5421ff11fa31,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!a7g2000prb.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT MASALA VIDEOS
Date: Thu, 23 Sep 2010 18:03:12 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <6b9991fc-65d7-485e-93cb-7e43bc06de5d@a7g2000prb.googlegroups.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1285290192 14305 127.0.0.1 (24 Sep 2010 01:03:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 24 Sep 2010 01:03:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a7g2000prb.googlegroups.com; posting-host=117.199.241.64; posting-
account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.10)
 Gecko/20100914 Firefox/3.6.10,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3840

                     HOT VIDOES

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
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http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
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tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

From -3669936522356574849
X-Google-Thread: fc2a5,ebfc414962f77551
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news1.google.com!news.glorb.com!news2.glorb.com!news.acm.uiuc.edu!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Upgrading an old Yaesu FRG-7
Date: Thu, 23 Sep 2010 22:44:30 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 56
Sender: et472@72.0.192.107
Message-ID: <Pine.LNX.4.64.1009232232010.18476@darkstar.example.net>
References: <Xns9DFD1D5FCCAAcrite40@216.196.97.131>
<glQmo.350$4o3.182@newsfe14.ams2>
NNTP-Posting-Host: 72.0.192.107
Mime-Version: 1.0
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X-Trace: theodyn.ncf.ca 1285296348 7018 72.0.192.107 (24 Sep 2010 02:45:48 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 24 Sep 2010 02:45:48 GMT
In-Reply-To: <glQmo.350$4o3.182@newsfe14.ams2>
Xref: g2news1.google.com rec.radio.amateur.homebrew:3841

On Thu, 23 Sep 2010, Nikon D3000 wrote:

> Some folks just can't leave well alone!
>

Another way of looking at it is that a commercial receiver makes a good start at a semi-homebrew project.

I remember one article in QST in the late fifties where someone bought a Knight Kit receiver and never built it as instructed. He used the chassis and such and the variable capacitors and tuned circuits but built up a different receiver. He saved on not having to do the chassis work.

There were lots of receivers built that way around surplus equipment.

People rebuilt older receivers, pretty much starting from scratch, either to put in miniature tubes or solid state the receiver. They even admitted that at that point they might as well have started from scratch, but the mechanical work in the receiver provided an advantage.

I was agonizing earlier in the year about buying a Grundig 4000 when they were selling for under a hundred dollars (made more tempting by having a gift card for the store, and at least at one point they were tossing in a windup radio). In the end, I decided it was too frivolous. But, I was tempted precisely to use it as a project radio. As a portable, any portable for that matter, there are some disadvantages, and merely putting it in a bigger case and rearranging the controls, and adding a tuning knob (it only has up/down switches) would make a fairly great operational improvement. Add another switch so the IF bandwidth switch doesn't control whether FM reception is mono or stereo. Add a preselector for improved front end selectivity. Add an analog s-meter. Add an RF gain control, or at least multiple levels of attenuation in the front end. Move the BFO tuning to something that is easier to use (it's a thumbwheel). Get a ceramic resonator and add a CW bandwidth selectivity. Get some ceramic filters and improve selectivity. Maybe add a synchronous detector. Once it's in a bigger box, it's so much easier to add modifications.

I thought of it as a fun project, get a leap start on building a full range shortwave receiver, but make it more functional and easier to use. Even at a hundred dollars, it's almost at the range where people would consider it throwaway, when it dipped under a hundred dollars it was even moreso.

The problem was, I already have one, bought at the $100 level last fall, plus a couple of better Grundigs that I bought at rummage sales for a lot less. Out of the box those older Grundigs have more features, and if I realistically, one of them would be a better choice for this sort of work.

So in the end, I didn't pursue the project, because as fun as it would have been, the end product wasn't necessary to my needs.

Michael VE2BVW

From 6252012435772085544
X-Google-Thread: fc2a5,ebfc414962f77551
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!cyclone02.ams2.highwinds-media.com!news.highwinds-media.com!npeersf01.ams.highwinds-media.com!newsfe30.ams2.POSTED!00000000!not-for-mail
From: "Nikon D3000" <moriarty@uncletom.cobleigh.com>
Newsgroups: rec.radio.amateur.homebrew
References: <Xns9DFD1D5FCCAAcrite40@216.196.97.131>
<glQmo.350$4o3.182@newsfe14.ams2>
<Pine.LNX.4.64.1009232232010.18476@darkstar.example.net>
Subject: Re: Upgrading an old Yaesu FRG-7
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <SN8no.18258$HG7.13619@newsfe30.ams2>
NNTP-Posting-Host: 86.15.200.53
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe30.ams2 1285363954 86.15.200.53 (Fri, 24 Sep 2010 21:32:34 UTC)
NNTP-Posting-Date: Fri, 24 Sep 2010 21:32:34 UTC
Organization: virginmedia.com
Date: Fri, 24 Sep 2010 22:32:29 +0100
Xref: g2news1.google.com rec.radio.amateur.homebrew:3842

"Michael Black" <et472@ncf.ca> wrote in message
news:Pine.LNX.4.64.1009232232010.18476@darkstar.example.net...
> On Thu, 23 Sep 2010, Nikon D3000 wrote:
>
>> Some folks just can't leave well alone!
>>
> Another way of looking at it is that a commercial receiver makes
> a good start at a semi-homebrew project.

I always start from scratch. I build my own PCB's, wind my own coils, metal enclosures and chassis. If I was capable of making all my own components, including tubes, I would sure would give it a go - real homebrew!

From 2757923101892350066

```
X-Google-Thread: fc2a5,ebfc414962f77551
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news4
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Upgrading an old Yaesu FRG-7
Date: Fri, 24 Sep 2010 17:49:34 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 27
Message-ID: <i7j6dr02ca8@news4.newsguy.com>
References: <Xns9DFD1D5FCCAAcrite40@216.196.97.131>
<glQmo.350$4o3.182@newsfe14.ams2>
<Pine.LNX.4.64.1009232232010.18476@darkstar.example.net>
<SN8no.18258$HG7.13619@newsfe30.ams2>
NNTP-Posting-Host: pbe366c8a3c1b6b2ae45465ec50e1830674317e9aa28cfcf0.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
In-Reply-To: <SN8no.18258$HG7.13619@newsfe30.ams2>
X-Antivirus: avast! (VPS 100924-1, 09/24/2010), Outbound message
X-Antivirus-Status: Clean
Xref: g2news1.google.com rec.radio.amateur.homebrew:3843

Nikon D3000 wrote:
> "Michael Black" <et472@ncf.ca> wrote in message
> news:Pine.LNX.4.64.1009232232010.18476@darkstar.example.net...
>> On Thu, 23 Sep 2010, Nikon D3000 wrote:
>>
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>>>
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> enclosures and chassis. If I was capable of making all my own components,
> including tubes, I would sure would give it a go - real homebrew!
>
>
  A FRG-7 from scratch would make a good project for you!

War story...many moons ago I saw a brand new FT-757 at a hamfest
disassembled to the fullest extent possible.  They had just hit the
market at the time.  The story was that it was an evaluation rig and the
teardown was part of the evaluation.  They only wanted $100 for the
pieces and I was tempted to grab it.  A 757 Kit - haha.

Then common sense clicked in.  What if it is missing a couple of crucial
pieces?
```

```
-Bill


From -335692990408772694
X-Google-Thread: fc2a5,ebfc414962f77551
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
newsfeed.xs4all.nl!newsfeed6.news.xs4all.nl!newsfeed5.news.xs4all.nl!xs4all!
post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Upgrading an old Yaesu FRG-7
References: <Xns9DFD1D5FCCAAcrite40@216.196.97.131>
 <glQmo.350$4o3.182@newsfe14.ams2>
 <Pine.LNX.4.64.1009232232010.18476@darkstar.example.net>
 <SN8no.18258$HG7.13619@newsfe30.ams2>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrni9r8l0.6dh.nomail@xs8.xs4all.nl>
Date: 25 Sep 2010 07:20:00 GMT
Lines: 16
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1285399200 news.xs4all.nl 41112 [::ffff:194.109.21.8]:43752
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:3844

Nikon D3000 <moriarty@uncletom.cobleigh.com> wrote:
>
> "Michael Black" <et472@ncf.ca> wrote in message
> news:Pine.LNX.4.64.1009232232010.18476@darkstar.example.net...
>> On Thu, 23 Sep 2010, Nikon D3000 wrote:
>>
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>>>
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> including tubes, I would sure would give it a go - real homebrew!

http://paillard.claude.free.fr/



From -1668865373353343713
X-Google-Thread: fc2a5,ebfc414962f77551
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!feed-
me.highwinds-media.com!cyclone01.ams2.highwinds-media.com!news.highwinds-
media.com!npeersf01.ams.highwinds-media.com!newsfe16.ams2.POSTED!00000000!not-for-
mail
Message-ID: <wNAnMgJCKanMFwUH@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Upgrading an old Yaesu FRG-7
References: <Xns9DFD1D5FCCAAcrite40@216.196.97.131>
 <glQmo.350$4o3.182@newsfe14.ams2>
 <Pine.LNX.4.64.1009232232010.18476@darkstar.example.net>
 <SN8no.18258$HG7.13619@newsfe30.ams2> <i7j6dr02ca8@news4.newsguy.com>
Lines: 30
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.06-S (<XCXqWG77KPDzWPCjeRDoeAZsun>)
NNTP-Posting-Host: 80.176.138.122
X-Complaints-To: abuse@demon.net
X-Trace: newsfe16.ams2 1285400353 80.176.138.122 (Sat, 25 Sep 2010 07:39:13 UTC)
NNTP-Posting-Date: Sat, 25 Sep 2010 07:39:13 UTC
Date: Sat, 25 Sep 2010 08:19:30 +0100
Xref: g2news1.google.com rec.radio.amateur.homebrew:3845

In message <i7j6dr02ca8@news4.newsguy.com>, Bill M
<radioexray@geeeemail.com> writes
>Nikon D3000 wrote:
>> "Michael Black" <et472@ncf.ca> wrote in message
>>news:Pine.LNX.4.64.1009232232010.18476@darkstar.example.net...
>>> On Thu, 23 Sep 2010, Nikon D3000 wrote:
>>>
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>>>>
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>
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>market at the time.  The story was that it was an evaluation rig and
>the teardown was part of the evaluation.  They only wanted $100 for the
>pieces and I was tempted to grab it.  A 757 Kit - haha.
>
>Then common sense clicked in.  What if it is missing a couple of
>crucial pieces?
>
The same caution should be exercised when buying second-hand jigsaw
puzzles.
--
```

Ian

```
From 5839036145319248074
X-Google-Thread: fc2a5,7692021ff7f132e,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!postnews.google.com!
n3g2000yqb.googlegroups.com!not-for-mail
From: fitz <zeusrdx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SEE this one: General relativity is simply explained by Fitzpatrick's
 RPR - - (Relative Phase Relationships).
Date: Sun, 26 Sep 2010 08:04:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 15
Message-ID: <6ee790ea-aa08-4631-a9dc-686698243868@n3g2000yqb.googlegroups.com>
NNTP-Posting-Host: 64.53.76.188
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1285513468 8030 127.0.0.1 (26 Sep 2010 15:04:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 26 Sep 2010 15:04:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n3g2000yqb.googlegroups.com; posting-host=64.53.76.188; posting-
account=A451vgoAAABycJv5ugpkfX8QG96-xuRZ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0;
 Trident/4.0; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
 3.0.30618; yie8),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3848
```

SEE this one: General relativity is simply explained by Fitzpatrick's RPR - - (Relative Phase Relationships).

Our space is built up by the average amount elements are out of phase with each other.

Repulsive forces are generated between elements that are out of phase more than this average.

While elements more in phase, than this average (phase coherence), produce attractive forces.

http://www.amperefitz.com/why.general.relativity.htm

Click link above to see why we have general relativity.

```
From -6956558622470557182
X-Google-Thread: fc2a5,ebfc414962f77551
X-Google-NewGroupId: yes
```

```
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!feeder.news-
service.com!cyclone01.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf01.ams.highwinds-media.com!newsfe28.ams2.POSTED!00000000!not-for-mail
From: "Nikon D3000" <moriarty@uncletom.cobleigh.com>
Newsgroups: rec.radio.amateur.homebrew
References: <Xns9DFD1D5FCCAAcrite40@216.196.97.131>
<glQmo.350$4o3.182@newsfe14.ams2>
<Pine.LNX.4.64.1009232232010.18476@darkstar.example.net>
<SN8no.18258$HG7.13619@newsfe30.ams2> <i7j6dr02ca8@news4.newsguy.com>
Subject: Re: Upgrading an old Yaesu FRG-7
Lines: 29
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <r4Kno.31295$6S3.12076@newsfe28.ams2>
NNTP-Posting-Host: 86.15.200.53
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe28.ams2 1285516695 86.15.200.53 (Sun, 26 Sep 2010 15:58:15 UTC)
NNTP-Posting-Date: Sun, 26 Sep 2010 15:58:15 UTC
Organization: virginmedia.com
Date: Sun, 26 Sep 2010 16:58:10 +0100
Xref: g2news1.google.com rec.radio.amateur.homebrew:3849


"Bill M" <radioexray@geeeemail.com> wrote in message
news:i7j6dr02ca8@news4.newsguy.com...
> Nikon D3000 wrote:
>> "Michael Black" <et472@ncf.ca> wrote in message
>> news:Pine.LNX.4.64.1009232232010.18476@darkstar.example.net...
>>> On Thu, 23 Sep 2010, Nikon D3000 wrote:
>>>
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>>>>
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>>> a good start at a semi-homebrew project.
>>
>> I always start from scratch. I build my own PCB's, wind my own coils,
>> metal enclosures and chassis. If I was capable of making all my own
>> components, including tubes, I would sure would give it a go - real
>> homebrew!
>  A FRG-7 from scratch would make a good project for you!

I could quite possibly design and build a far better receiver than the FRG-7
anyhow!
Manufacturers build to a design price - so inevitably compromises have to be
made to keep within budget.
As a lone constructor, that restriction doesn't even enter into the equation
when I design and build. The only problem I sometimes find is when certain
components become obsolete and consequentially unavailable, so then it
```

```
becomes a case of "back to the drawing board!"




From -4649517298553857188
X-Google-Thread: fc2a5,ebfc414962f77551
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!goblin1!goblin3!goblin.stu.neva.ru!
news.sdf.org!.POSTED!mcalhoun
From: Myron A. Calhoun <mcalhoun@sdf.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Upgrading an old Yaesu FRG-7
Date: Mon, 27 Sep 2010 21:18:33 +0000 (UTC)
Organization: SDF Public Access UNIX System, Est. 1987
Lines: 19
Message-ID: <i7r1n9$jt6$1@droog.sdf-eu.org>
References: <Xns9DFD1D5FCCAAcrite40@216.196.97.131>
<glQmo.350$4o3.182@newsfe14.ams2>
<Pine.LNX.4.64.1009232232010.18476@darkstar.example.net>
<SN8no.18258$HG7.13619@newsfe30.ams2> <i7j6dr02ca8@news4.newsguy.com>
NNTP-Posting-Host: sverige.freeshell.org
X-Trace: droog.sdf-eu.org 1285622313 20390 192.94.73.4 (27 Sep 2010 21:18:33 GMT)
X-Complaints-To: usenet@droog.sdf-eu.org
NNTP-Posting-Date: Mon, 27 Sep 2010 21:18:33 +0000 (UTC)
User-Agent: nn/6.7.3
Xref: g2news1.google.com rec.radio.amateur.homebrew:3850

Bill M <radioexray@geeeemail.com> writes:
>....[lots snipped]....
>War story...many moons ago I saw a brand new FT-757 at a hamfest
>disassembled to the fullest extent possible.  They had just hit the
>market at the time.  The story was that it was an evaluation rig and the
>....[more snipped]....

When I was in college (many moons ago), one of my HAM classmates
disassembled Collins transceivers to get parts for his hombrewing!
And when he was finished, they even looked nice (X-Y wiring, etc.)

Me?  I take old TV's apart.

-- Myron A. Calhoun
--
-- Myron A. Calhoun.
Five boxes preserve our freedoms:  soap, ballot, witness, jury, and cartridge
NRA Life Member & Certified Instructor for Rifle, Pistol, & Home Firearm Safety
Also Certified Instructor for the Kansas Concealed-Carry Handgun (CCH) license


From -1297634341242978934
X-Google-Thread: fc2a5,5fa5c9d9f9f641de,start
```

```
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g21g2000prn.googlegroups.com!not-for-
mail
From: SUHASINI <satyarao.kotyada@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: See Hot Sexy Star * Trisha  Sex Videos
Date: Tue, 28 Sep 2010 10:09:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 5
Message-ID: <3b1206c5-f550-40f3-a0bb-4716d6125efa@g21g2000prn.googlegroups.com>
NNTP-Posting-Host: 117.195.167.198
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1285693786 18447 127.0.0.1 (28 Sep 2010 17:09:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 28 Sep 2010 17:09:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g21g2000prn.googlegroups.com; posting-host=117.195.167.198;
posting-account=TvxcMwoAAACFzJsVGo3euJlkRdVe6p79
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.19)
 Gecko/2010031422 Firefox/3.0.19,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3851

See Hot Sexy Star * Trisha  Sex Videos  At http://nandanavanam.co.cc

Due to high sex content, i have hidden the videos in an image.
in that website on Right side  below search box click on image and
watch videos in all angles.


From -5710323966155594226
X-Google-Thread: fc2a5,f54035a824d5864a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-08.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <f452de57-6ad1-498c-8ee8-f63b5ed49a8e@j30g2000vbr.googlegroups.com>
Subject: Re: If I built it, will they come?
Lines: 8
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
```

```
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
Message-ID: <XFyoo.198785$mN7.124717@en-nntp-08.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Tue, 28 Sep 2010 20:48:04 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:3852

"The Eternal Squire" <eternalsquire@hotmail.com> wrote in message
news:f452de57-6ad1-498c-8ee8-f63b5ed49a8e@j30g2000vbr.googlegroups.com...
> If I build quality QRP gear and advertise it on etsy or ebay as
> handbuilt gear, will people buy it?

They will, although quite possibly not at a price that it would make it worth
your while.  You'd pretty much have to try it out to know for certain, though!




From 3035713767410320049
X-Google-Thread: fc2a5,5f12d041fbc9bf7f,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i4g2000prf.googlegroups.com!not-for-
mail
From: SRAVANTHI LOVE <sravanthi.sravya24@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT PHOTOS&VIDEOS
Date: Thu, 30 Sep 2010 07:55:27 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <46eba7ce-bd94-4b3f-a1c9-d381fca653d2@i4g2000prf.googlegroups.com>
NNTP-Posting-Host: 117.199.246.58
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1285858528 3757 127.0.0.1 (30 Sep 2010 14:55:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 30 Sep 2010 14:55:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i4g2000prf.googlegroups.com; posting-host=117.199.246.58; posting-
account=xlJdHgoAAABgcJTnuAE4KX8N828Cze-V
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.2.10)
 Gecko/20100914 Firefox/3.6.10,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3854

           SEXY CHARMI IN A BATH

http://babes-devi.blogspot.com/2010/06/charmi-in-bath.html
```

FOR HOT PHOTOS&VIDEOS

http://babes-devi.blogspot.com/2010_06_01_archive.html

AISHWARIYA RAI EXPOSING PHOTOS

http://babes-devi.blogspot.com/2010/09/aishwariya-rai.html

HOT SEXY BOOBS SHOW

http://babes-devi.blogspot.com/2010/09/sexy-boobs.html

ASIN CUTE HOT PHOTOS

http://babes-devi.blogspot.com/2010/09/asin-cute-photos.html

MALLIKA SHARAWAT UNBELIVABLE PHOTOS

http://babes-devi.blogspot.com/2010/08/sexy-mallika.html

ANKHITA SPICY PHOTOS

http://babes-devi.blogspot.com/2010/08/sexy-ankhitha.html

ARTHI AGARWAL HOT WET PHOTOS

http://babes-devi.blogspot.com/2010/08/arthi-agarwal-sexy-wet-photos.html

```
From 5153661267348343780
X-Google-Thread: fcc6e,d7f1e990d28c106f,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,d7f1e990d28c106f,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,d7f1e990d28c106f,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,d7f1e990d28c106f,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,d7f1e990d28c106f,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,d7f1e990d28c106f,start
X-Google-NewGroupId: yes
X-Google-Thread: 10e8ad,d7f1e990d28c106f,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,d7f1e990d28c106f,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf
6,gid8f86f75953,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
```

newshosting.com!novia!news-out.readnews.com!news-xxxfer.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1283320800@panix.com>
Followup-To: poster
Date: 1 Oct 2010 02:00:02 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Nov 2010 02:00:00 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1285912800@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com (rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1285912802 29510 166.84.1.2 (1 Oct 2010 06:00:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 1 Oct 2010 06:00:02 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
Xref: g2news1.google.com rec.radio.amateur.antenna:18686 rec.radio.amateur.dx:735 rec.radio.amateur.equipment:2236 rec.radio.amateur.homebrew:3855 rec.radio.amateur.misc:5429 rec.radio.amateur.policy:28614 rec.radio.amateur.space:386 rec.radio.info:1763

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From 4340360538284358549
X-Google-Thread: fc2a5,5818dbf7f2ed64fa,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p37g2000pra.googlegroups.com!not-for-
mail
From: guru <sridatta9247@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT&SEXY IMAGES
Date: Fri, 1 Oct 2010 21:16:27 -0700 (PDT)
Organization: http://groups.google.com
Lines: 27
Message-ID: <3c3b7b4f-6071-409f-a36c-a5ec2f1962bb@p37g2000pra.googlegroups.com>
NNTP-Posting-Host: 117.199.246.83
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1285992987 17133 127.0.0.1 (2 Oct 2010 04:16:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 2 Oct 2010 04:16:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p37g2000pra.googlegroups.com; posting-host=117.199.246.83;
posting-account=7_cYWQoAAADEvSRHsmIxRMxDGxOUDqs2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.2.10)
```

Gecko/20100914 Firefox/3.6.10,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3856

AMISHAPATEL HOT BOOBS

http://babes-devi.blogspot.com/2010/07/amishpatel-latest-photos.html

ARCHANA UNSEENED EXPOSING PHOTOS

http://babes-devi.blogspot.com/2010/07/archana-unseened-photos.html

KATRINA KAIF HOT SEXY PHOTOS

http://babes-devi.blogspot.com/2010/07/katrina-sexy-looking-photos.html

THISHA HOT WET PHOTOS

http://babes-devi.blogspot.com/2010/06/thrisha-hot-wet-photos.html

SEXY CHARMI IN A BATHROOM

http://babes-devi.blogspot.com/2010/06/charmi-in-bath.html

KAJALAGARWAL IN A ROMANTIC FEEL

http://babes-devi.blogspot.com/2010/06/kajal-hot-photos.html

NAMITHA IN A BEACH

http://babes-devi.blogspot.com/2010/06/nayagarala-namitha.html

---

From 5709904004463059786
X-Google-Thread: fc2a5,397ca06e1abf8daf,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g6g2000pro.googlegroups.com!not-for-mail
From: swathi <ukpeople03@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: See Hot Sexy *KATIE PRICE * Sex Videos
Date: Fri, 1 Oct 2010 23:49:12 -0700 (PDT)
Organization: http://groups.google.com
Lines: 5
Message-ID: <e49e1d4c-7b25-4c1f-8f85-3b5874d7b9a5@g6g2000pro.googlegroups.com>
NNTP-Posting-Host: 117.195.160.193
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1286002153 29022 127.0.0.1 (2 Oct 2010 06:49:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 2 Oct 2010 06:49:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com

```
Injection-Info: g6g2000pro.googlegroups.com; posting-host=117.195.160.193;
posting-account=Srq5mAoAAAAxynVTLIlwsPIHW_hB6L9x
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.19)
 Gecko/2010031422 Firefox/3.0.19,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3857

 See Hot Sexy  *KATIE PRICE * Sex Videos  At http://showclose.co.cc

Due to high sex content, i have hidden the videos in an image.
in that website on Right side  below search box click on image and
watch videos in all angles.


From 8156794046235293464
X-Google-Thread: fc2a5,e6254dfa34d88de7,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k10g2000yqa.googlegroups.com!not-for-
mail
From: OldGold <sharknews@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: Vintage Ham Radio Gear ... super nice
Date: Sun, 3 Oct 2010 21:15:52 -0700 (PDT)
Organization: http://groups.google.com
Lines: 29
Message-ID: <2f2d27f5-1463-43f6-8f62-6e24fa187f53@k10g2000yqa.googlegroups.com>
NNTP-Posting-Host: 68.198.140.153
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1286165753 9378 127.0.0.1 (4 Oct 2010 04:15:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 4 Oct 2010 04:15:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k10g2000yqa.googlegroups.com; posting-host=68.198.140.153;
posting-account=bvZ6XAoAAABDLRlxSGtgOEK_w6vrKc66
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.13)
 Gecko/20100914 Firefox/3.5.13,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3858

I have the all the gear from a vintage Ham Shack for auction. Mostly
vintage Drake gear. Really super clean and nice.

Drake L - 4 B Linear Amplifier + L-4 PS Power

Drake MN - 2000 Matching Network ~ Ham

Drake R-4C Ham Receiver

Drake T-4XC Transmitter ~ Ham
```

DRAKE FS4 SYNTHESIZER ~ Ham

Drake MS-4 Speaker + Drake AC-4 Power Supply

CDE Transmit Receive Direction Control ~ Ham

Shure model 444 Base Microphone Ham

Follow the link for photos and a full descriptions of each piece of gear....

http://members.ebay.com/ws/eBayISAPI.dll?ViewUserPage&userid=iam30

Thanks

```
From -4017368810430812421
X-Google-Thread: fc2a5,8d1294503fd293c8,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
newsfeed3.dallas1.level3.net!news.level3.com!bloom-beacon.mit.edu!micro-heart-of-
gold.mit.edu!nntp.club.cc.cmu.edu!feeder.erje.net!multikabel.net!
newsfeed20.multikabel.net!Xl.tags.giganews.com!border1.nntp.ams.giganews.com!
nntp.giganews.com!local2.nntp.ams.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 03 Oct 2010 23:10:20 -0500
From: weak_signals <weak_signals.6ef09c8@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Ceramic Resonators 7.02 mHz SFE7.02MC
Date: Mon, 4 Oct 2010 01:51:23 +0000
Message-ID: <weak_signals.6ef09c8@radiobanter.com>
Organization: RadioBanter.com
Lines: 19
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-jpFy4K/dwcSSe/cri0J0rBYTkfPluD62Z7njbJS+F+OVU3t/0iSOtmCVzAO/
xiGWIFNO9Iku5YUF5mn!E92xtUhIzR2m4uywIP48ANJqOy27E3/
S5Uzk38KBQZTZQBJtmUi9uIodt8CoDZC3VYkSCzutw3Pz!oSdCCYwumc4c
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 13
X-Original-Bytes: 1244
Xref: g2news1.google.com rec.radio.amateur.homebrew:3859
```

```
Anyone need these?
I have pushed and pulled them from about 7.0 to 7.04
Harmonics are good too
14.0 - 14.08
21.0 - 21.12
28.0 - 28.16

Udo uses these in his elegant designs.
http://www.qrp4u.de
These are a rare as DX from Bhutan

Let me know...
weak_signals@yahoo.ca





--
weak_signals



From 5391883078788271550
X-Google-Thread: fc2a5,66832c9f09a008b2,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
n19g2000prf.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT NEW VIDEOS
Date: Mon, 4 Oct 2010 03:05:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 46
Message-ID: <ea014246-7dff-446c-906c-fcca61e2742a@n19g2000prf.googlegroups.com>
NNTP-Posting-Host: 117.199.240.159
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1286186745 5946 127.0.0.1 (4 Oct 2010 10:05:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 4 Oct 2010 10:05:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n19g2000prf.googlegroups.com; posting-host=117.199.240.159;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.10)
 Gecko/20100914 Firefox/3.6.10,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3860

 FOR SUPER HOT PHOTOS

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
```

HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDOES

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

```
From 7915443213611267085
X-Google-Thread: fc2a5,2871293934a57712,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e22g2000prj.googlegroups.com!not-for-mail
```

From: Hot Hot <magguru.appalakonda@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Rambha 's happy videos
Date: Wed, 6 Oct 2010 08:17:38 -0700 (PDT)
Organization: http://groups.google.com
Lines: 7
Message-ID: <6855f128-6cbd-4edb-b5d5-74ecdbc2263b@e22g2000prj.googlegroups.com>
NNTP-Posting-Host: 117.195.187.239
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1286378259 27244 127.0.0.1 (6 Oct 2010 15:17:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 6 Oct 2010 15:17:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e22g2000prj.googlegroups.com; posting-host=117.195.187.239;
posting-account=ZDXzewoAAABWUT0BpI_T1fMCCO8Lvtqk
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.19)
 Gecko/2010031422 Firefox/3.0.19,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3862

Watch Rambha 's happy videos at http://greatlondon.tk

Due to high sex content, i have hidden the Videos in an
image. in that website on Right side search box below click
on image and watch Videos in all angles.

From -3592843071878151555
X-Google-Thread: fcc6e,96629cd96c04b525,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,96629cd96c04b525,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,96629cd96c04b525,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,96629cd96c04b525,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,96629cd96c04b525,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,96629cd96c04b525,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,96629cd96c04b525,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf
6,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!novia!news-out.readnews.com!
transit4.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)

Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1283839501@panix.com>
Followup-To: poster
Date: 7 Oct 2010 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Nov 2010 01:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1286431501@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1286431502 10678 166.84.1.2 (7 Oct 2010 06:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 7 Oct 2010 06:05:02 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:18779 rec.radio.amateur.dx:740
rec.radio.amateur.equipment:2261 rec.radio.amateur.homebrew:3863
rec.radio.amateur.misc:5450 rec.radio.amateur.policy:28675 rec.radio.info:1780

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |

 rec.radio.amateur.boatanchors |
 rec.radio.amateur.dx |
 rec.radio.amateur.equipment |
 rec.radio.amateur.homebrew |
 rec.radio.amateur.moderated |
 rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

From -2782503098383753505
X-Google-Thread: fc2a5,54298a74ddadee60,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!x7g2000yqg.googlegroups.com!not-for-mail
From: fitz <zeusrdx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: from W2YDW: Mathematician Steven Wolfram said, "Math can only explain simple things. You need a MODEL to explain complicated things, but a simple MODEL can explain a complicated universe."   So include quotes and type "phase coherence" into Googl
Date: Sat, 9 Oct 2010 04:35:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 21
Message-ID: <ca9925b7-41b5-416e-9d94-a3edcde4cc06@x7g2000yqg.googlegroups.com>
NNTP-Posting-Host: 64.53.76.67
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1286624109 7334 127.0.0.1 (9 Oct 2010 11:35:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 9 Oct 2010 11:35:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x7g2000yqg.googlegroups.com; posting-host=64.53.76.67; posting-account=A451vgoAAAByсJv5ugpkfX8QG96-xuRZ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0; Trident/4.0; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR

```
 3.0.30618; yie8),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3865
```

Mathematician Steven Wolfram said, "Math can only explain simple things. You need a MODEL to explain complicated things, but a simple MODEL can explain a complicated universe."   So include quotes and type "phase coherence" into Google.

Then you will find my "phase coherence" MODEL   It's at many places in Google.

It was at the #1 TOP spot, in Google, from Sept./22/2010 . . .
to . . . Oct./04/2010 (Fitz Finds a fact! - - Phase Coherence is the reason...)

Why did it take top spot in Google?

It's a MODEL Einstein tried to find but never did.

To see it click link:

http://www.amperefitz.com/top.spot.htm

Daniel P. Fitzpatrick Jr. (Fitz)

```
From -3617622946947302357
X-Google-Thread: fc2a5,dd1a1897a4ee1375,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k1g2000prl.googlegroups.com!not-for-
mail
From: paypal payment master <mahome2019@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Shilpashjetty's sweetest exposing in Robo
Date: Sat, 9 Oct 2010 07:29:52 -0700 (PDT)
Organization: http://groups.google.com
Lines: 8
Message-ID: <81239164-305b-4221-8237-3edb3198ac4b@k1g2000prl.googlegroups.com>
NNTP-Posting-Host: 117.195.182.198
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1286634593 30981 127.0.0.1 (9 Oct 2010 14:29:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 9 Oct 2010 14:29:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k1g2000prl.googlegroups.com; posting-host=117.195.182.198;
posting-account=NkdsuAoAAADdtNYGwAn913NCNokL5mBl
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2)
 Gecko/20100115 Firefox/3.6,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3866
```

Too Much Sexy Girls In This World At http://Sweetyshilpa.tk

Due to high sex content, i have hidden the videos in an image.
in that website on Right side below search box click on image and
watch videos in all angles.

From 8815971096590477927
X-Google-Thread: fc2a5,c4f2e1e8b0583374
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
news.mixmin.net!aioe.org!not-for-mail
From: "Hairy Lethal" <oeieio@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: IF Transformers
Date: Sat, 9 Oct 2010 18:43:58 +0200
Organization: Aioe.org NNTP Server
Lines: 50
Message-ID: <i8q64g$ejh$1@speranza.aioe.org>
References: <MPG.26de32dafd229857989682@news.virginmedia.com>
<bfa66b24-13ee-480f-9654-853e45cc54c6@x42g2000yqx.googlegroups.com>
NNTP-Posting-Host: Hq9F83SQG7ACHUrMB1WpqQ.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
X-RFC2646: Format=Flowed; Original
X-Notice: Filtered by postfilter v. 0.8.2
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:3868

http://www.sm0vpo.com/blocks/if-txfmr_tube_00.htm
and
http://www.sm0vpo.com/begin/cans-0.htm

/Harry

"raypsi" <rborowiak@gmail.com> wrote in message
news:bfa66b24-13ee-480f-9654-853e45cc54c6@x42g2000yqx.googlegroups.com...
On Aug 25, 1:12 pm, Howard James <howar...@hotmail.com> wrote:
Hey OT:

I seen one web site, wound if coils on 1/2inch PVC, turns were 65
turns for the grid and 150 turns for the plate they used a ferrite rod
or antenna rod for a tuning slug. put the coils in a tin can for like
soup;

Another site they used 2, 1mh coils in close proximity and tuning with
trim caps, all put in a cast aluminum box.

Both those idea's bigger than the old 3/4in sq can of old.

Trying to find treaded slugs could be a chore even it you wanted to
dup the old cans,

Trouble with the surplus stuff you don't know if it is 455 or 10.7
unless you test it or take it apart.

73 OT:

de n8zu

> I'm about to embark on a "vintage" valve (tube) receiver but have a
> question (probably more questions later!!!) about the IF transformers.
> Years ago I was able to purchase the transformers for 455 KHz but the
> ones I want are for 9 MHz. I think I'll have to wind them. I don't have
> any 10.7 MHz transformers. Any advice appreciated. I'm really interested
> in the turns ratios as I'll be winding the primaries for a Q of about
> 100.
> Do the inter-IF amp windings have the same turns ratio as the balanced
> modulator detector transformer? I think not. Do I have to worry about
> turns ratio for anode impedance to grid impedance and what are "rule of
> thumb" ratios? Can I use FTxx toroids as opposed to say quarter inch
> coil formers with screening cans? So many questions. It's great being a
> radio amateur!
> Thanks. Howard.

From -8615092107693757450
X-Google-Thread: fc2a5,c4f2e1e8b0583374
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!f25g2000yqc.googlegroups.com!not-for-mail
From: Leon <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: IF Transformers
Date: Sat, 9 Oct 2010 14:03:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 20
Message-ID: <bb9b87ea-a8a7-4b1f-8615-83d09bb0f194@f25g2000yqc.googlegroups.com>
References: <MPG.26de32dafd229857989682@news.virginmedia.com>
NNTP-Posting-Host: 109.155.237.46
Mime-Version: 1.0

```
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1286658220 5443 127.0.0.1 (9 Oct 2010 21:03:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 9 Oct 2010 21:03:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f25g2000yqc.googlegroups.com; posting-host=109.155.237.46;
posting-account=QWZLZQkAAADFmB_RJlmk3T-GvINRaZti
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-GB; rv:1.9.2.10)
 Gecko/20100914 Firefox/3.6.10 GTB7.1 ( .NET CLR 3.5.30729; .NET4.0E),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3869
```

On 25 Aug, 18:12, Howard James <howar...@hotmail.com> wrote:

> I'm about to embark on a "vintage" valve (tube) receiver but have a
> question (probably more questions later!!!) about the IF transformers.
> Years ago I was able to purchase the transformers for 455 KHz but the
> ones I want are for 9 MHz. I think I'll have to wind them. I don't have
> any 10.7 MHz transformers. Any advice appreciated. I'm really interested
> in the turns ratios as I'll be winding the primaries for a Q of about
> 100.
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> modulator detector transformer? I think not. Do I have to worry about
> turns ratio for anode impedance to grid impedance and what are "rule of
> thumb" ratios? Can I use FTxx toroids as opposed to say quarter inch
> coil formers with screening cans? So many questions. It's great being a
> radio amateur!
> Thanks. Howard.

Many years ago I designed and built a 9 MHz IF amplifier using FETs
and home-made coils using toroidal cores.

Leon

```
From -803474529230691953
X-Google-Thread: fc2a5,c4f2e1e8b0583374
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 09 Oct 2010 19:41:31 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <MPG.26de32dafd229857989682@news.virginmedia.com>
<bfa66b24-13ee-480f-9654-853e45cc54c6@x42g2000yqx.googlegroups.com>
<i8q64g$ejh$1@speranza.aioe.org>
Subject: Re: IF Transformers
Date: Sat, 9 Oct 2010 19:41:31 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
```

```
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
X-RFC2646: Format=Flowed; Response
Message-ID: <cb2dnfOqN_omlizRnZ2dnUVZ_uCdnZ2d@giganews.com>
Lines: 68
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Vk1adfTIWIoSnbiWpem0y3VkWvUpBNfi7FWOFnzcoN5RnsN/HnYZfJwD+PxA/
l0yimuN2PK7GtySrUl!s8Nf4m/DvHJjUaDufRZJYXQxpJmrksL4D1NyFqs1LHhD/
qh1p+UMfmnKaAFFu6j2VAbX26Ungngd
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 3756
Xref: g2news1.google.com rec.radio.amateur.homebrew:3870
```

Hairy Lethal wrote:

> http://www.sm0vpo.com/blocks/if-txfmr_tube_00.htm
> and
> http://www.sm0vpo.com/begin/cans-0.htm
>
> /Harry
>
> "raypsi" <rborowiak@gmail.com> wrote in message
> news:bfa66b24-13ee-480f-9654-853e45cc54c6@x42g2000yqx.googlegroups.com...
> On Aug 25, 1:12 pm, Howard James <howar...@hotmail.com> wrote:
> Hey OT:
>
> I seen one web site, wound if coils on 1/2inch PVC, turns were 65
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>
> Another site they used 2, 1mh coils in close proximity and tuning with
> trim caps, all put in a cast aluminum box.
>
> Both those idea's bigger than the old 3/4in sq can of old.
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> Trying to find treaded slugs could be a chore even it you wanted to
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>
> Trouble with the surplus stuff you don't know if it is 455 or 10.7
> unless you test it or take it apart.
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> 73 OT:
>
> de n8zu
>
>
>
>
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>> appreciated. I'm really interested in the turns ratios as I'll be
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>> balanced modulator detector transformer? I think not. Do I have to
>> worry about turns ratio for anode impedance to grid impedance and
>> what are "rule of thumb" ratios? Can I use FTxx toroids as opposed
>> to say quarter inch coil formers with screening cans? So many
>> questions. It's great being a radio amateur!
>> Thanks. Howard.

You can buy 10.7 IF cans from Dan's Small Parts web site at http://www.danssmallpartsandkits.net/. They're listed about 1/5 of the way down the page. Be patient when you scroll... it's a big page and he doesn't have a search utility on the site. Cheap enough at $1.65 each.
They're built specifically for solid state receivers, so they might not have the right turns ratio for tube circuits. You could buy a couple and experiment.

An alternative source for 10.7 Mhz IF transformers would be in a scrapped FM radio. You might find a suitable donor quite cheaply at a flea market, garage sale, etc.

--
David
dgminala at mediacombb dot net

From 9116162519773866864
X-Google-Thread: fc2a5,3d5ce6791f5e576,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m35g2000prn.googlegroups.com!not-for-mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT HOT VIDEOS FOR ADULTS
Date: Sat, 9 Oct 2010 22:56:31 -0700 (PDT)
Organization: http://groups.google.com
Lines: 47
Message-ID: <965d6d98-5013-4726-9aaf-1bdc7ea36f42@m35g2000prn.googlegroups.com>
NNTP-Posting-Host: 117.199.243.154
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1286690191 15940 127.0.0.1 (10 Oct 2010 05:56:31 GMT)
X-Complaints-To: groups-abuse@google.com

NNTP-Posting-Date: Sun, 10 Oct 2010 05:56:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m35g2000prn.googlegroups.com; posting-host=117.199.243.154;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.10)
 Gecko/20100914 Firefox/3.6.10,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3871

FOR SUPER HOT PHOTOS

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDOES

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4
http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions

http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

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From -7608877680686708430
X-Google-Thread: fc2a5,e1c98f03fb6125c,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!news.mixmin.net!aioe.org!not-for-mail
From: "Hairy Lethal" <oeieio@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SM0VPO - Harry's Homebrew Homepages
Date: Sun, 10 Oct 2010 11:15:06 +0200
Organization: Aioe.org NNTP Server
Lines: 18
Message-ID: <i8s06u$m4i$1@speranza.aioe.org>
NNTP-Posting-Host: Hq9F83SQG7ACHUrMB1WpqQ.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
X-RFC2646: Format=Flowed; Original
X-Notice: Filtered by postfilter v. 0.8.2
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:3872

I had a bitof bad news from my ISP last Christmas. They were not happy with SEK 140 per year. So they closed down my homepages and offered me the Telia WebHotel at SEK 3600 per year.

I am hosting the homepages myself, but i have now got my own domain, so I can move the pages anywhere I want.

The URL is now www.sm0vpo.com/

There is a standby on my other computer at www.sm0vpo.com:800/

So if you wonder where my homepages went, there is the answer. They have been online all the time, but without Usernet access I could not tell anyone.

BR Harry - SM0VPO

From -1561733299400934122
X-Google-Thread: fc2a5,54298a74ddadee60

X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 10 Oct 2010 06:06:09 -0500
Date: Sun, 10 Oct 2010 11:06:09 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.9) Gecko/
20100825 Thunderbird/3.1.3
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: from W2YDW: Mathematician Steven Wolfram said, "Math can only
 explain simple things. You need a MODEL to explain complicated things, but
 a simple MODEL can explain a complicated universe."   So include quotes
 and type "phase coherence" into Googl
References: <ca9925b7-41b5-416e-9d94-a3edcde4cc06@x7g2000yqg.googlegroups.com>
In-Reply-To: <ca9925b7-41b5-416e-9d94-a3edcde4cc06@x7g2000yqg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <3fidnbnuuYC8AyzRnZ2dnUVZ_vednZ2d@bright.net>
Lines: 16
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-N3naE3n+wFFTfAKBJihIWng+lHZMy8ues4VNBEo48qZpwauS+L7nANFGWKlPQ/OS/
in7xwAqqbytnT2!BVEjsMz88q97QgRxntnNKkFHhd4LzlSUTz0dPO38LYuIkuvPCIkdYjmeAVn4/
C6x1z4IwXljUv+Q!84SQxpqkww==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1779
Xref: g2news1.google.com rec.radio.amateur.homebrew:3873

On 10-9-2010 11:35, fitz wrote:

>
> It was at the #1 TOP spot, in Google, from Sept./22/2010 . . .
> to . . . Oct./04/2010 (Fitz Finds a fact! - - Phase Coherence is the
> reason...)
>
> Why did it take top spot in Google?
>
> It's a MODEL Einstein tried to find but never did.

Or maybe, someone clicked on it a bazillion times??? ;)

From 4980660375087152574
X-Google-Thread: fc2a5,e1c98f03fb6125c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
news.mixmin.net!aioe.org!not-for-mail
From: "Hairy Lethal" <oeieio@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SM0VPO - Harry's Homebrew Homepages
Date: Sun, 10 Oct 2010 20:17:44 +0200
Organization: Aioe.org NNTP Server
Lines: 28
Message-ID: <i8t00b$7s2$1@speranza.aioe.org>
References: <i8s06u$m4i$1@speranza.aioe.org>
NNTP-Posting-Host: df8puJMuCezU0p+BifgOmQ.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
X-RFC2646: Format=Flowed; Response
X-Notice: Filtered by postfilter v. 0.8.2
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:3875

Also, just upgraded my router (to one that doesn'r lock up). Have changed
the URL forwarding, but it takes a while B4 it percolates through the
system. The direct URLs are:
http://81.227.203.235/
and
http://81.227.203.235:800/

73 de Harry

>I had a bitof bad news from my ISP last Christmas. They were not happy with
>SEK 140 per year. So they closed down my homepages and offered me the Telia
>WebHotel at SEK 3600 per year.
>
> I am hosting the homepages myself, but i have now got my own domain, so I
> can move the pages anywhere I want.
>
> The URL is now www.sm0vpo.com/
>
> There is a standby on my other computer at www.sm0vpo.com:800/
>
> So if you wonder where my homepages went, there is the answer. They have
> been online all the time, but without Usernet access I could not tell
> anyone.
>
> BR Harry - SM0VPO
>

```
From 7443658081000482230
X-Google-Thread: fc2a5,e1c98f03fb6125c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news3.google.com!proxad.net!
feeder1-2.proxad.net!newsfeed.straub-nv.de!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SM0VPO - Harry's Homebrew Homepages
Date: Sun, 10 Oct 2010 11:55:35 -0700
Organization: A noiseless patient Spider
Lines: 13
Message-ID: <i8t278$qno$2@news.eternal-september.org>
References: <i8s06u$m4i$1@speranza.aioe.org> <i8t00b$7s2$1@speranza.aioe.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sun, 10 Oct 2010 18:55:37 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="c9wvpZD0qd4/jSZuNMye2Q";
     logging-data="27384"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/Vi0PWVKCruw9YXKCuiBUEGwX7xVivijw="
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.9) Gecko/
20100915 Thunderbird/3.1.4
In-Reply-To: <i8t00b$7s2$1@speranza.aioe.org>
Cancel-Lock: sha1:h/T01JXH07SmtPCZGKROIBcHFgI=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3876

On 10/10/2010 11:17 AM, Hairy Lethal wrote:
> Also, just upgraded my router (to one that doesn'r lock up). Have changed
> the URL forwarding, but it takes a while B4 it percolates through the
> system. The direct URLs are:
> http://81.227.203.235/
> and
> http://81.227.203.235:800/

Port 800 doesn't work for me ... tried 8000, just in case a mistake was
made, doesn't work either ... the other, on default 80 is kewl.

Regards,
JS



From -2644877727105959996
X-Google-Thread: fc2a5,c4f2e1e8b0583374
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!k11g2000vbf.googlegroups.com!not-for-
mail
```

```
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: IF Transformers
Date: Sun, 10 Oct 2010 12:12:08 -0700 (PDT)
Organization: http://groups.google.com
Lines: 30
Message-ID: <28ba8c62-14e6-4a9f-b1ca-4b7fb1d1f3c1@k11g2000vbf.googlegroups.com>
References: <MPG.26de32dafd229857989682@news.virginmedia.com>
 <bfa66b24-13ee-480f-9654-853e45cc54c6@x42g2000yqx.googlegroups.com>
 <i8q64g$ejh$1@speranza.aioe.org> <cb2dnfOqN_omlizRnZ2dnUVZ_uCdnZ2d@giganews.com>
NNTP-Posting-Host: 99.89.77.137
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1286737928 32046 127.0.0.1 (10 Oct 2010 19:12:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 10 Oct 2010 19:12:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k11g2000vbf.googlegroups.com; posting-host=99.89.77.137; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.1.13)
 Gecko/20100915 SeaMonkey/2.0.8,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3877
```

> You can buy 10.7 IF cans from Dan's Small Parts web site athttp://www.dan=
ssmallpartsandkits.net/. =A0They're listed about 1/5 of the way
> down the page. =A0Be patient when you scroll... it's a big page and he do=
esn't
> have a search utility on the site. =A0Cheap enough at $1.65 =A0each.
> They're built specifically for solid state receivers, so they might n

Hey OT:

Dans small parts is a gr8 site. the reason he calls it small parts
because he got not many parts for tubes, those IF cans won't hold up
to the voltage that is on the plates of tubes, unless you might be
able to use 12volt plate voltage tubes that Tung Sol came out with
back in the day just as transistors were taking over. I remember in
1960 I had a Buick Special car, the radio that used 12 volt plate
voltage tubes and a transistor AF output.

I seen sum web site that used a 12AX7 at 12 volt plate voltage, maybe
if you used a 12AX7 in cascode you could get enough gain at 12volts
plate voltage.

The best bet I've seen is a toroid with trim caps for tuning. Way back
in the day b4 they used treaded ferrite slugs they used trim caps to
tune the IF cans.

73 OT

de n8zu

```
From -5612766190292889927
X-Google-Thread: fc2a5,9fc3e58af67c00b9,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!goblin2!goblin1!goblin.stu.neva.ru!
border1.nntp.ams2.giganews.com!border1.nntp.ams.giganews.com!
border2.nntp.ams.giganews.com!nntp.giganews.com!feed.xsnews.nl!
border-2.ams.xsnews.nl!feeder.news-service.com!cyclone01.ams2.highwinds-media.com!
news.highwinds-media.com!npeersf01.ams.highwinds-media.com!newsfe30.ams2.POSTED!
00000000!not-for-mail
From: "Ray Joham" <rayjoham@rayjoham.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Circuit Diagram/Schematic Wanted
Lines: 7
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <67Cso.24125$_x2.2149@newsfe30.ams2>
NNTP-Posting-Host: 86.15.200.53
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe30.ams2 1286794818 86.15.200.53 (Mon, 11 Oct 2010 11:00:18 UTC)
NNTP-Posting-Date: Mon, 11 Oct 2010 11:00:18 UTC
Organization: virginmedia.com
Date: Mon, 11 Oct 2010 12:00:14 +0100
X-Original-Bytes: 1095
Xref: g2news1.google.com rec.radio.amateur.homebrew:3878
```

I urgently need a copy of the circuit diagram (schematic) for a Taylor
Winsor Model 66A signal generator.
Can anyone help?
Any assistance would be greatly appreciated.

```
From 3121047348825606021
X-Google-Thread: fc2a5,9fc3e58af67c00b9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder3.cambriumusenet.nl!
feed.tweaknews.nl!193.201.147.78.MISMATCH!feeder.news-service.com!
94.75.214.39.MISMATCH!aioe.org!not-for-mail
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
```

```
Subject: Re: Circuit Diagram/Schematic Wanted
Date: Mon, 11 Oct 2010 19:30:50 -0400
Organization: Aioe.org NNTP Server
Lines: 17
Message-ID: <fmmck-DB338C.19304911102010@5ad64b5e.bb.sky.com>
References: <67Cso.24125$_x2.2149@newsfe30.ams2>
NNTP-Posting-Host: t4ODNCYIDDTba4Tm+cOKMA.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3880
```

In article <67Cso.24125$_x2.2149@newsfe30.ams2>,
 "Ray Joham" <rayjoham@rayjoham.com> wrote:

> I urgently need a copy of the circuit diagram (schematic) for a Taylor
> Winsor Model 66A signal generator.
> Can anyone help?
> Any assistance would be greatly appreciated.

Ray-

Even with the misspelling, a Google search appears to have found a manual at the BAMA mirror. Does the manual not have a diagram?

There may also be information at radiomuseum.org.

Fred
K4DII

```
From -6101136258870438596
X-Google-Thread: fc2a5,e1c98f03fb6125c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!feeder.news-service.com!94.75.214.39.MISMATCH!aioe.org!not-for-
mail
From: "Hairy Lethal" <oeieio@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SM0VPO - Harry's Homebrew Homepages
Date: Tue, 12 Oct 2010 10:14:47 +0200
Organization: Aioe.org NNTP Server
Lines: 26
Message-ID: <i915dl$ord$1@speranza.aioe.org>
References: <i8s06u$m4i$1@speranza.aioe.org> <i8t00b$7s2$1@speranza.aioe.org>
<i8t278$qno$2@news.eternal-september.org>
NNTP-Posting-Host: df8puJMuCezU0p+BifgOmQ.user.speranza.aioe.org
```

```
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
X-RFC2646: Format=Flowed; Response
X-Notice: Filtered by postfilter v. 0.8.2
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:3881
```

It works now.

I just upgraded the router to stop the occasional hangups.

There will be a short outage sometime next week when I put 200A/H batteries and connect solar panels to the SPU.

/Harry

"John Smith" <assemblywizard@gmail.com> wrote in message news:i8t278$qno$2@news.eternal-september.org...

```
> On 10/10/2010 11:17 AM, Hairy Lethal wrote:
>> Also, just upgraded my router (to one that doesn'r lock up). Have changed
>> the URL forwarding, but it takes a while B4 it percolates through the
>> system. The direct URLs are:
>> http://81.227.203.235/
>> and
>> http://81.227.203.235:800/
>
> Port 800 doesn't work for me ... tried 8000, just in case a mistake was
> made, doesn't work either ... the other, on default 80 is kewl.
>
> Regards,
> JS
```

```
From -7477699607132106988
X-Google-Thread: fc2a5,9fc3e58af67c00b9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!feed-
me.highwinds-media.com!nntp.club.cc.cmu.edu!feeder.erje.net!feeder.news-
service.com!cyclone01.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf01.ams.highwinds-media.com!newsfe14.ams2.POSTED!00000000!not-for-mail
From: "Ray Joham" <rayjoham@rayjoham.com>
Newsgroups: rec.radio.amateur.homebrew
References: <67Cso.24125$_x2.2149@newsfe30.ams2> <fmmck-
DB338C.19304911102010@5ad64b5e.bb.sky.com>
Subject: Re: Circuit Diagram/Schematic Wanted
Lines: 3
X-Priority: 3
```

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <m%4to.40383$nX4.38733@newsfe14.ams2>
NNTP-Posting-Host: 86.15.200.53
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe14.ams2 1286921298 86.15.200.53 (Tue, 12 Oct 2010 22:08:18 UTC)
NNTP-Posting-Date: Tue, 12 Oct 2010 22:08:18 UTC
Organization: virginmedia.com
Date: Tue, 12 Oct 2010 23:08:12 +0100
Xref: g2news1.google.com rec.radio.amateur.homebrew:3882

Many thanks Fred!

From 6976109968982632232
X-Google-Thread: 241b302a50,e1c98f03fb6125c
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Joerg <invalid@invalid.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SM0VPO - Harry's Homebrew Homepages
Date: Thu, 14 Oct 2010 14:17:38 -0700
Organization: Consultant
Lines: 19
Message-ID: <8hpabvFe6jU1@mid.individual.net>
References: <i8s06u$m4i$1@speranza.aioe.org> <i8t00b$7s2$1@speranza.aioe.org>
<i8t278$qno$2@news.eternal-september.org> <i915dl$ord$1@speranza.aioe.org>
Reply-To: news@analogconsultants.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: individual.net t2UBfwrM2P2kRJcKGDTFIAHarJ0iBOuqsYrRQo/eTyzCS0B5zG
Cancel-Lock: sha1:kCRvzfl72GCvn0dVFRMABdog5rg=
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
In-Reply-To: <i915dl$ord$1@speranza.aioe.org>
Xref: g2news2.google.com rec.radio.amateur.homebrew:4180

Hairy Lethal wrote:
> It works now.
>
> I just upgraded the router to stop the occasional hangups.
>
> There will be a short outage sometime next week when I put 200A/H batteries
> and connect solar panels to the SPU.
>
> /Harry

If you ever have such problems again with a host try 1and1. I use them for my web site and AFAICT it was never down in all those years. Cost went up a bit lately but not 20-fold. It costs me around $80/year, with domain registration, email, FTP and all that.

Baesta Haelsningar,

Joerg

From 3796345187547160375
X-Google-Thread: 241b302a50,e1c98f03fb6125c
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
195.208.113.1.MISMATCH!goblin3!goblin.stu.neva.ru!news.sdf.org!.POSTED!mcalhoun
From: Myron A. Calhoun <mcalhoun@sdf.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SM0VPO - Harry's Homebrew Homepages
Date: Fri, 15 Oct 2010 02:25:26 +0000 (UTC)
Organization: SDF Public Access UNIX System, Est. 1987
Lines: 14
Message-ID: <i98e2m$657$1@droog.sdf-eu.org>
References: <i8s06u$m4i$1@speranza.aioe.org> <i8t00b$7s2$1@speranza.aioe.org>
<i8t278$qno$2@news.eternal-september.org> <i915dl$ord$1@speranza.aioe.org>
<8hpabvFe6jU1@mid.individual.net>
NNTP-Posting-Host: sverige.freeshell.org
X-Trace: droog.sdf-eu.org 1287109526 6311 192.94.73.4 (15 Oct 2010 02:25:26 GMT)
X-Complaints-To: usenet@droog.sdf-eu.org
NNTP-Posting-Date: Fri, 15 Oct 2010 02:25:26 +0000 (UTC)
User-Agent: nn/6.7.3
Xref: g2news2.google.com rec.radio.amateur.homebrew:4181

>If you ever have such problems again with a host try 1and1....

I've used SDF (Super Dimension Fortress) in the USA for several years, and there is also a European version < http://sdf-eu.org/ >. It has several levels of membership depending on how much storage space you want. I pay $36/year for a gigabyte. It's UNIX (Linux?) based.

FWIW, my website is < http://mcalhoun.sdf.org >.

--
-- Myron A. Calhoun.
Five boxes preserve our freedoms: soap, ballot, witness, jury, and cartridge
NRA Life Member & Certified Instructor for Rifle, Pistol, & Home Firearm Safety
Also Certified Instructor for the Kansas Concealed-Carry Handgun (CCH) license

From -1094254333435366507

```
X-Google-Thread: 241b302a50,e1c98f03fb6125c
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i5g2000yqe.googlegroups.com!not-for-
mail
From: Leon <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SM0VPO - Harry's Homebrew Homepages
Date: Mon, 18 Oct 2010 06:02:43 -0700 (PDT)
Organization: http://groups.google.com
Lines: 7
Message-ID: <8ad66138-61af-489f-911a-4b461d3e1f3f@i5g2000yqe.googlegroups.com>
References: <i8s06u$m4i$1@speranza.aioe.org>
NNTP-Posting-Host: 86.161.49.233
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1287406963 13613 127.0.0.1 (18 Oct 2010 13:02:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 18 Oct 2010 13:02:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i5g2000yqe.googlegroups.com; posting-host=86.161.49.233; posting-
account=QWZLZQkAAADFmB_RJlmk3T-GvINRaZti
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-GB; rv:1.9.2.10)
 Gecko/20100914 Firefox/3.6.10 GTB7.1 ( .NET CLR 3.5.30729; .NET4.0E),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4183

My Yahoo Geocities web pages were moved to Webring by some kind person
when Yahoo pulled the plug:

http://webspace.webring.com/h/ppl

73, Leon
G1HSM


From -8288482993700971768
X-Google-Thread: 241b302a50,97a5d4946bd41f85,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe04.iad.POSTED!6ec25d62!not-for-mail
From: "Graeme Zimmer" <gzimmer@wideband.net.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Quadrature DDS
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-RFC2646: Format=Flowed; Original
```

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
Message-ID: <cqxvo.16050$qz.5773@newsfe04.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Wed, 20 Oct 2010 08:06:32 UTC
Organization: TeraNews.com
Date: Wed, 20 Oct 2010 19:06:13 +1100
Xref: g2news2.google.com rec.radio.amateur.homebrew:4186

Hi,

For those into homebrew Digital Radio, you might be interested in my
Quadrature DDS I have running...

see
http://members.wideband.net.au/gzimmer/TwinDDS/default.html

Later .... Zim VK3GJZ

From -7266120027008004640
X-Google-Thread: 241b302a50,3dd021ef284907f8,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
l17g2000yqe.googlegroups.com!not-for-mail
From: maha <londonmoney106@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: See Kajal Hot Sexy star Sex Videos
Date: Sun, 24 Oct 2010 09:27:48 -0700 (PDT)
Organization: http://groups.google.com
Lines: 6
Message-ID: <563c6c03-98e2-4098-a289-671f2fab8b3d@l17g2000yqe.googlegroups.com>
NNTP-Posting-Host: 117.195.177.73
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1287937668 14849 127.0.0.1 (24 Oct 2010 16:27:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 24 Oct 2010 16:27:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l17g2000yqe.googlegroups.com; posting-host=117.195.177.73;
posting-account=8UtiOwoAAAD9fx1ATWKVCXxuLbiDCfeI
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.19)
Gecko/2010031422 Firefox/3.0.19,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3891

See Kajal Hot Sexy star Sex Videos Athttp://texasgirlsculture.co.cc

Due to High Sex Content i Have hidden the Videos in an
image. in that website on Right side Search box below click

```
on image and watch Videos In All Angles.



From -2929963185668188011
X-Google-Thread: 241b302a50,7a1accf3883f3703,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e14g2000yqe.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT VIDEOS N JOBS N GAMES
Date: Mon, 25 Oct 2010 23:53:24 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <30505bc9-b771-4317-8ee0-7dccfb5104d4@e14g2000yqe.googlegroups.com>
NNTP-Posting-Host: 117.199.247.114
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1288076004 2972 127.0.0.1 (26 Oct 2010 06:53:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Oct 2010 06:53:24 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e14g2000yqe.googlegroups.com; posting-host=117.199.247.114;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.11)
 Gecko/20101012 Firefox/3.6.11,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3892

  for hot videos
http://verysexyhotvideos.blogspot.com/



hot lip kiss videos
http://allvideosforyouth.blogspot.com/2010/08/hot-lip-kiss-videos.html

super hot lip kiss
http://allvideosforyouth.blogspot.com/2010/08/super-hot-lip-kiss.html



     jobs
http://alljobsaywhere.blogspot.com/


                        games




GAME 1
http://freeonlingamesplay.blogspot.com/2010/08/game-1.html
```

```
GAME 2
http://freeonlingamesplay.blogspot.com/2010/08/game-2.html


              mobile

mobile games free download
http://mobileallinforation.blogspot.com/2010/08/mobile-games-free-download.html

mobile ringtones free download
http://mobileallinforation.blogspot.com/2010/08/mobile-ringtones-free-
download.html



From 3476091211083669057
X-Google-Thread: 241b302a50,407001fb8131bf5e,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!x42g2000yqx.googlegroups.com!not-for-
mail
From: tejaswini <teju9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ADULT SEX GALLERY
Date: Tue, 26 Oct 2010 10:25:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 36
Message-ID: <5e66235f-17af-4759-9f24-779867847f16@x42g2000yqx.googlegroups.com>
NNTP-Posting-Host: 117.199.244.118
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1288113935 8244 127.0.0.1 (26 Oct 2010 17:25:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Oct 2010 17:25:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x42g2000yqx.googlegroups.com; posting-host=117.199.244.118;
posting-account=6xaZwQoAAACqKFwd8FfwWgPIkcC-Icg-
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.2.11)
 Gecko/20101012 Firefox/3.6.11,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3893

MONALISA HOT BOOBS
http://unbelivablephotos.blogspot.com/2010/10/monalisa.html
                                       HOT SEXY GIRL
http://unbelivablephotos.blogspot.com/2010/10/sexy.html
                               KAJAL IN A SEXY FEEL
http://unbelivablephotos.blogspot.com/2010/10/kajal-agarwal.htm
                             SEXY   PRIYANKA CHOPRA
http://unbelivablephotos.blogspot.com/2010/10/priyanka-chopra.html
                         HOT MALLU AUNTY IN A BATHROOM
http://unbelivablephotos.blogspot.com/2010/10/sexy-mallu-aunty.html
                                     AISH LATESET PHOTO
```

http://unbelivablephotos.blogspot.com/2010/10/aish-latest-photo.ht
RISHIKA BEAUTIFUL PHOTO
http://unbelivablephotos.blogspot.com/2010/10/rishika.html
MONICA LATESET PHOTO
http://unbelivablephotos.blogspot.com/2010/10/monica.html
PRIYAMANI UNSEENED PHOTO
http://unbelivablephotos.blogspot.com/2010/10/priyamani.html
KATRINA KAIF SPICY PHOTO
http://unbelivablephotos.blogspot.com/2010/10/katrina-kaif.html
KAMNAJET MALANI LOOKING HOT
http://unbelivablephotos.blogspot.com/2010/10/kamnajet-malani.html
BHAVYA HOT SEXY BOOBS
http://unbelivablephotos.blogspot.com/2010/10/bhavya.html
NAMITHA EXPOSING PHOTO
http://unbelivablephotos.blogspot.com/2010/10/namitha.html
SRISHA NAVEL SHOW
http://unbelivablephotos.blogspot.com/2010/10/srisha.html
SNEHA IN A BATH ROOM
http://unbelivablephotos.blogspot.com/2010/10/sneha.html
RIYASEN HOT PHOTO
http://unbelivablephotos.blogspot.com/2010/10/riyasen.html
ARCHANA UNBELIVABLE PHOTO
http://unbelivablephotos.blogspot.com/2010/10/archana.html
SHRIYA IN A SEXY FEEL
http://unbelivablephotos.blogspot.com/2010/10/shriya.html

```
From -7370740485529528696
X-Google-Thread: fc2a5,97a5d4946bd41f85
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!ecngs!
feeder.ecngs.de!Xl.tags.giganews.com!border1.nntp.ams.giganews.com!
nntp.giganews.com!local2.nntp.ams.giganews.com!news.giganews.com.POSTED!not-for-
mail
NNTP-Posting-Date: Fri, 29 Oct 2010 05:41:58 -0500
From: "Brian Gregory [UK]" <ng@bgdsv.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <cqxvo.16050$qz.5773@newsfe04.iad>
Subject: Re: Quadrature DDS
Date: Fri, 29 Oct 2010 11:41:56 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5994
Message-ID: <AaedndWi5L9rOVfRnZ2dnUVZ7sKdnZ2d@giganews.com>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Qq1CM2YA6kthTJwZ+G2/r6gN7xc3jg/ZgJYvHGmLg4qjJouoKTbsTw80/
O1GEVGZBqrRMXc+O9qgzDJ!W9rFuQAzacQWsoA/
0daf6caWzkpDZf9X7oQhoP8bJjaCwuO7iP64ZJwd1E1jB/4LC1G0idhk/lc=
```

X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1599
Xref: g2news2.google.com rec.radio.amateur.homebrew:4191

"Graeme Zimmer" <gzimmer@wideband.net.au> wrote in message
news:cqxvo.16050$qz.5773@newsfe04.iad...

> Hi,
>
> For those into homebrew Digital Radio, you might be interested in my
> Quadrature DDS I have running...
>
> see
> http://members.wideband.net.au/gzimmer/TwinDDS/default.html
>
> Later .... Zim VK3GJZ
>

It's quadrature so you can do direct conversion SSB?

Very impressive.

--

Brian Gregory. (In the UK)
ng@bgdsv.co.uk
To email me remove the letter vee.

From -3934125529989093563
X-Google-Thread: fc2a5,708c6043e8f3aa75,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 29 Oct 2010 18:20:38 -0500
Date: Fri, 29 Oct 2010 23:20:38 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.9) Gecko/20100825 Thunderbird/3.1.3
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: 902 MHz Amp For Sale
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

```
Message-ID: <jN2dnXkbBYlby1bRnZ2dnUVZ_oEAAAAA@bright.net>
Lines: 5
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
aiKGKu9Ys4PzM24VJ+8A7LgaPkmGcnWLXi1nbiZpMnaR6rWCwezmG6U9nos9MCcg8UhNKb6W9jpHYkE!
OnQ4+IFUgHkcgfCk5rMZcP4AKS+Q1XI/voqtt7DMqbGDsXr1l0y030kPc/kRyevtp8RF4FUcQ4Je!
UT8BmUKLhA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1171
Xref: g2news2.google.com rec.radio.amateur.homebrew:4192

I'm upgrading to 300W, so I have my lower powered amp for sale...

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=160499820161#shId

N0EDV



From -3024623470154999055
X-Google-Thread: fc2a5,ada57cc50ec431c,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!d8g2000yqf.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT photos SEE N ENJOY
Date: Sat, 30 Oct 2010 19:23:08 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <ecd648bb-02c6-4a07-a5ca-c2754c7e78b3@d8g2000yqf.googlegroups.com>
NNTP-Posting-Host: 117.199.242.156
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1288491789 11673 127.0.0.1 (31 Oct 2010 02:23:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 31 Oct 2010 02:23:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d8g2000yqf.googlegroups.com; posting-host=117.199.242.156;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.12)
 Gecko/20101026 Firefox/3.6.12,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:4193

kissing photos
http://photostoyouth.blogspot.com/2010/10/kissing-photos.html
LIP KISS PHOTOS
```

http://photostoyouth.blogspot.com/2010/10/lip-kiss-photos.html
SEXY PHOTOS
http://photostoyouth.blogspot.com/2010/10/sexy-photos.html
ROMANTIC PHOTOS
http://photostoyouth.blogspot.com/2010/10/romantic-photos.html
MASALA PHOTOS
http://photostoyouth.blogspot.com/2010/10/masala-photos.html
MASALA BOOBS
http://photostoyouth.blogspot.com/2010/10/masala-boobs.html
MASALA KISS
http://photostoyouth.blogspot.com/2010/10/masala-kiss.html

From -7659946045314253152
X-Google-Thread: fc2a5,a27c7fdc8a859e52
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-08.dc1.easynews.com.POSTED!not-for-mail
From: "Bill, W6WRT" <dezrat1242@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hy-Gain BN-86 balun for sale
Reply-To: dezrat1242@yahoo.com
Message-ID: <atrpc6hk1ui2g0vsqgajvpsmhcob6bcksu@4ax.com>
References: <i3p759$rvm$4@news.eternal-september.org>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 15
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Sat, 30 Oct 2010 21:27:24 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:4194

ORIGINAL MESSAGE:

On Mon, 09 Aug 2010 10:34:03 -0500, Henry <wa0goz@arrl.net> wrote:

>I have a Hy-Gain BN-86 3-30 MHz 1500W 50-ohm balun for sale. I'm
>asking $50 for it. The instruction manual can be viewed at:

REPLY:

This balun will only handle 1500 watts PEP. Do not try running RTTY or
other full-carrier mode through it at 1500 watts.

Trust me on that. :-)

73, Bill W6WRT

```
From -2725024486135577558
X-Google-Thread: a4a23d5f63,ae4e45ce9a7ead4c,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!transit3.readnews.com!news-
out.readnews.com!news-xxxfer.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1285912800@panix.com>
Followup-To: poster
Date: 1 Nov 2010 02:00:01 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 04 Dec 2010 01:00:00 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1288591200@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1288591202 12597 166.84.1.2 (1 Nov 2010 06:00:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 1 Nov 2010 06:00:02 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Xref: g2news1.google.com rec.radio.amateur.antenna:19149 rec.radio.amateur.dx:762
rec.radio.amateur.equipment:2291 rec.radio.amateur.homebrew:3898
rec.radio.amateur.misc:5516 rec.radio.amateur.policy:28850
rec.radio.amateur.space:398 rec.radio.info:1843

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html
```

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader
opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From -4779733973068826758
X-Google-Thread: fc2a5,5ac38e7df2e2b050,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l17g2000yqe.googlegroups.com!not-for-
mail
From: 9038 <1jghgcgcc@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT VIDEOS FOR BOYS N GIRLS
Date: Mon, 1 Nov 2010 04:19:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 52
Message-ID: <8ebf1342-c0c8-415d-9fff-e814c6a2c060@l17g2000yqe.googlegroups.com>
NNTP-Posting-Host: 117.199.249.11
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1288610386 21546 127.0.0.1 (1 Nov 2010 11:19:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 1 Nov 2010 11:19:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l17g2000yqe.googlegroups.com; posting-host=117.199.249.11;
posting-account=Rze1PQoAAABSIQ4mwVTlOX14lamVw3hS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.12)
 Gecko/20101026 Firefox/3.6.12,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3899
```

hot lip kiss

HOT LIP KISS 109
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-109.html
HOT LIP KISS 115
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-115.html
HOTLIP KISS 87
http://alltoux.blogspot.com/2010/09/hotlip-kiss-87.html
HOT LIP KISS 124
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-124.html
HOT LIP KISS 56
http://alltoux.blogspot.com/2010/09/hot-lip-kiss-56.html

HOT VIDEOS

massage hot videos
http://hotvideosonlyx.blogspot.com/2010/09/massage-hot-videos.html
romantic videos
http://hotvideosonlyx.blogspot.com/2010/09/romantic-videos.html
hollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot-kiss.html
hollywood hot
http://hotvideosonlyx.blogspot.com/2010/09/hollywood-hot.html
bollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-kiss.html
bollywood hot videos
http://hotvideosonlyx.blogspot.com/2010/09/bollywood-hot-videos.html
tollywood hot kiss
http://hotvideosonlyx.blogspot.com/2010/09/tollywood-hot-kiss.html

ALL INTERVIEW QUESTIONS

java interview questions
http://allinterviewsquestions.blogspot.com/2009/02/java-interview-questions.html
oracle interview questions
http://allinterviewsquestions.blogspot.com/2009/02/oracle-interview-questions.html
hardware interview questions 4

http://allinterviewsquestions.blogspot.com/2009/02/hardware-interview-questions.html
SQL Server Interview Questions
http://allinterviewsquestions.blogspot.com/2009/02/sql-server-interview-questions.html
dotnet questions 3
http://allinterviewsquestions.blogspot.com/2009/02/dotnet-questions-3.html

hot photos
http://photostou.blogspot.com/2010/09/bollywood-actress-photos-4.html

From -118865218479500221
X-Google-Thread: fc2a5,e1c98f03fb6125c
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p1g2000yqm.googlegroups.com!not-for-mail
From: lw1ecp <danyperez1@yahoo.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SM0VPO - Harry's Homebrew Homepages
Date: Tue, 2 Nov 2010 20:08:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 1
Message-ID: <808050dc-e1cb-47df-ad6d-ff45e30acfa3@p1g2000yqm.googlegroups.com>
References: <i8s06u$m4i$1@speranza.aioe.org>
<8ad66138-61af-489f-911a-4b461d3e1f3f@i5g2000yqe.googlegroups.com>
NNTP-Posting-Host: 190.139.177.118
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1288753735 3088 127.0.0.1 (3 Nov 2010 03:08:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 3 Nov 2010 03:08:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p1g2000yqm.googlegroups.com; posting-host=190.139.177.118;
posting-account=J2bTrwoAAAA_H4qq0GLh7EO3_dPJZX9j
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; es-AR; rv:1.9.2.12)
Gecko/20101026 Firefox/3.6.12,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3900

Thank you Harry for your efforts on keeping your valuable info online!

From -9038594160294324967
X-Google-Thread: fc2a5,23dccd22b94330e6,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

```
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news.alt.net
From: justme <jbleaux@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 3-1000Z
Date: Tue, 02 Nov 2010 23:02:20 -0500
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 2
Message-ID: <9ln1d6t9c4ehqaj5fo1tnc4p53c6f6og4o@4ax.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Newsreader: Forte Agent 6.00/32.1186
Xref: g2news2.google.com rec.radio.amateur.homebrew:4198

?



From 8256863617581667180
X-Google-Thread: fc2a5,db0bd7d2ddba55cf,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!t35g2000yqj.googlegroups.com!not-for-
mail
From: tejaswini <teju9030@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: NEW HOT PHOTOS
Date: Tue, 2 Nov 2010 23:59:42 -0700 (PDT)
Organization: http://groups.google.com
Lines: 30
Message-ID: <75ace38a-6428-4f89-8c4f-aa92709f8908@t35g2000yqj.googlegroups.com>
NNTP-Posting-Host: 117.199.249.227
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1288767582 23977 127.0.0.1 (3 Nov 2010 06:59:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 3 Nov 2010 06:59:42 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t35g2000yqj.googlegroups.com; posting-host=117.199.249.227;
posting-account=6xaZwQoAAACqKFwd8FfwWgPIkcC-Icg-
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.12)
 Gecko/20101026 Firefox/3.6.12,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3902

               FOR SAVE WATER AND CHILD PROTECTION
                      http://savewaterinworld.blogspot.com/

                    SEXY COLLEGE GIRLS
http://babes-devi.blogspot.com/2010/11/sexy-college-girls.html
                           PRANEEHA HOT PICS
```

```
http://babes-devi.blogspot.com/2010/11/praneetha-latest-pics.html
              AISHWARIYA LATEST HOT PICS
http://babes-devi.blogspot.com/2010/10/aish-latest-pics.html
                SOUTHACTRESS IN A SEXY TOWELS
http://babes-devi.blogspot.com/2010/10/south-actress-in-sexy-towels.html
                UDAYATHRA IN A BATH ROOM
http://babes-devi.blogspot.com/2010/10/udayatara-in-bath.html
                ACTRESS IN A HOT RED DRESS
http://babes-devi.blogspot.com/2010/10/actress-in-sexy-red-dress.html
                 ASIN CUTE HOT PHOTOS
http://babes-devi.blogspot.com/2010/09/asin-cute-photos.html
                SEXY CHARMI IN A BATH
http://babes-devi.blogspot.com/2010/06/charmi-in-bath.html
                FOR HOT PHOTOS&VIDEOS
http://babes-devi.blogspot.com/2010_06_01_archive.html
                 HOT SEXY BOOBS  SHOW
http://babes-devi.blogspot.com/2010/09/sexy-boobs.html
                 ASIN CUTE HOT PHOTOS
http://babes-devi.blogspot.com/2010/09/asin-cute-photos.html
        MALLIKA SHARAWAT UNBELIVABLE PHOTOS
http://babes-devi.blogspot.com/2010/08/sexy-mallika.html
             ANKHITA SPICY PHOTOS
http://babes-devi.blogspot.com/2010/08/sexy-ankhitha.html
```

```
From 3640318001191656149
X-Google-Thread: fc2a5,23dccd22b94330e6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <knock_yourself_out@example.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3-1000Z
Date: 3 Nov 2010 19:41:18 GMT
Lines: 4
Message-ID: <slrnid3emu.2098.knock_yourself_out@shell.config.com>
References: <9ln1d6t9c4ehqaj5fo1tnc4p53c6f6og4o@4ax.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: individual.net tzt15T3mJW/618YBH5afkwfTkEYvjBYIXqSEeJfSJWldBJq+rZ
Cancel-Lock: sha1:ul8qpTDbMDrpHHBJQ0zmgM8aOCw=
User-Agent: slrn/0.9.9p1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3903
```

On Tue, 02 Nov 2010 23:02:20 -0500, justme wrote:

> ?

Yep. ?

```
From 3642420233192145871
X-Google-Thread: fc2a5,23dccd22b94330e6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 03 Nov 2010 20:19:50 -0500
Date: Thu, 04 Nov 2010 01:19:49 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.12) Gecko/
20101027 Thunderbird/3.1.6
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3-1000Z
References: <9ln1d6t9c4ehqaj5fo1tnc4p53c6f6og4o@4ax.com>
<slrnid3emu.2098.knock_yourself_out@shell.config.com>
In-Reply-To: <slrnid3emu.2098.knock_yourself_out@shell.config.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <efednY17DYyrl0_RnZ2dnUVZ_uqdnZ2d@bright.net>
Lines: 8
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
gyRkrBkO0RAWWu18oZtjNuA7WS7aMuKV6iLuWIiLUW+SURsfpSrHfi37a148WbkuY33V7S8McmGRBJM!
FmEgqdUlrEd7gl1MR9cDJrRI1Vf6/I1GwU7iCU5u1BxVnWOuG41PMfKUz2JqpxXOFmHr//mN3d89!
4g6vAxCA2w==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1340
Xref: g2news2.google.com rec.radio.amateur.homebrew:4201
```

On 11-3-2010 19:41, Allodoxaphobia wrote:

> On Tue, 02 Nov 2010 23:02:20 -0500, justme wrote:
>> ?
>
> Yep. ?

It's a glass transistor.

```
From -5602326223423418127
X-Google-Thread: fc2a5,481e604ab8d7f443,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
```

```
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 05 Nov 2010 06:16:28 -0500
Date: Fri, 05 Nov 2010 11:16:28 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.12) Gecko/
20101027 Thunderbird/3.1.6
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Need coax jumpers
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <WrKdnbBgJ5kRek7RnZ2dnUVZ_rednZ2d@bright.net>
Lines: 8
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-7yN5RSRAwrgpm+7HZ5WOkVn30ObuhUPWSGdjjRnYyZZvVQThK/P63RooYygoY+rP+p/
5fLYj69qTePP!
GdglF3Lg1mPRnyUp+NrB43hMq4joRVfHOQYAiypouUuirNIDOofHJXX7HaIpUvXP3CAFdkAkfvZR!
bMf2iV1w8Q==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Bytes: 1337
Xref: g2news2.google.com rec.radio.amateur.homebrew:4203
```

Looking for about 20 Teflon type coax jumpers (RG-142 size coax or similar). Need N-Female chassis mount on one end. Remaining end can be any connector as I cut them off and solder direct to circuit board. Jumpers need to be about 16" long or so. Emailed Hangar 18 surplus with no reply.

Scott
N0EDV

```
From 4494357081623491203
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!eternal-september.org!feeder.eternal-september.org!.POSTED!not-
for-mail
From: "Jeff Johnson" <Jeff_Johnson@Hotmail.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor
Date: Wed, 25 Aug 2010 13:08:05 -0500
Organization: A noiseless patient Spider
```

```
Lines: 1
Message-ID: <i53m65$s2c$1@news.eternal-september.org>
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
Mime-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="Windows-1252";
     reply-type=response
Content-Transfer-Encoding: 7bit
Injection-Date: Wed, 25 Aug 2010 18:08:05 +0000 (UTC)
Injection-Info: mx01.eternal-september.org; posting-host="wjKXVvRSZnblv+Tmc9naVA";
     logging-data="28748"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18LhA7rM/1aOY77C7Xz1PXWC9+yqkINQGY="
X-MimeOLE: Produced By Microsoft MimeOLE V14.0.8089.726
In-Reply-To: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
X-Newsreader: Microsoft Windows Live Mail 14.0.8089.726
Importance: Normal
Cancel-Lock: sha1:yLPpbOXPM/UHjtiPJVb99/RhPPk=
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:3726
sci.electronics.design:182589
```

"amdx" <amdx@knology.net> wrote in message
news:7baf9$4c754008$45013905$14209@KNOLOGY.NET...

> Several years ago while making inductors for tuning a class E amplifier we
> end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore, gapped
> I think,
> but it has been awhile. The inductor was driven hard but below saturation.
> The problem; the 1/2 turn got HOT. Four turns or five turns were ok.
> My physicist friend had an EE verify the problem 2000 miles away.
>
> So, can anyone tell me why 1/2 turn would make such a difference in the
> heating?
>
>   Thanks, MikeK
>

Resonance? (I assume by 1/2 you mean the 4.5 inductor?)

```
From -6107878696985621809
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<i53m65$s2c$1@news.eternal-september.org>
Subject: Re: Heating in 4-1/2 turn inductor
Date: Wed, 25 Aug 2010 13:10:36 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-Antivirus: avast! (VPS 100825-0, 08/25/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <7f589$4c755cac$45013905$6863@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 27
X-Trace: 7f5894c755cace0a49ca006863
Xref: g2news1.google.com rec.radio.amateur.homebrew:3727
sci.electronics.design:182590
```

"Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
news:i53m65$s2c$1@news.eternal-september.org...

```
>
>
> "amdx" <amdx@knology.net> wrote in message
> news:7baf9$4c754008$45013905$14209@KNOLOGY.NET...
>> Several years ago while making inductors for tuning a class E amplifier
>> we
>> end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore,
>> gapped I think,
>> but it has been awhile. The inductor was driven hard but below
>> saturation.
>> The problem; the 1/2 turn got HOT.  Four turns or five turns were ok.
>> My physicist friend had an EE verify the problem 2000 miles away.
>>
>> So, can anyone tell me why 1/2 turn would make such a difference in the
>> heating?
>>
>>                                 Thanks, MikeK
>>
>
>
> Resonance? (I assume by 1/2 you mean the 4.5 inductor?)
  Yes, a 4 and 1/2 turn inductor had the 1/2 turn overheat.
```

```
From 246670275653010156
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!eternal-september.org!
feeder.eternal-september.org!.POSTED!not-for-mail
From: "Jeff Johnson" <Jeff_Johnson@Hotmail.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor
Date: Wed, 25 Aug 2010 13:32:10 -0500
Organization: A noiseless patient Spider
Lines: 2
Message-ID: <i53nja$2qd$1@news.eternal-september.org>
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<i53m65$s2c$1@news.eternal-september.org>
<7f589$4c755cac$45013905$6863@KNOLOGY.NET>
Mime-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="Windows-1252";
     reply-type=response
Content-Transfer-Encoding: 7bit
Injection-Date: Wed, 25 Aug 2010 18:32:11 +0000 (UTC)
Injection-Info: mx01.eternal-september.org; posting-host="wjKXVvRSZnblv+Tmc9naVA";
     logging-data="2893"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18TYLIFSK3/FN7oJe1oHhkgYmmH/makOEE="
X-MimeOLE: Produced By Microsoft MimeOLE V14.0.8089.726
In-Reply-To: <7f589$4c755cac$45013905$6863@KNOLOGY.NET>
X-Newsreader: Microsoft Windows Live Mail 14.0.8089.726
Importance: Normal
Cancel-Lock: sha1:q42MdTKyw7P5Myh3IqE0W2ow2XE=
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:3728
sci.electronics.design:182593



"amdx" <amdx@knology.net> wrote in message
news:7f589$4c755cac$45013905$6863@KNOLOGY.NET...
>
> "Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
> news:i53m65$s2c$1@news.eternal-september.org...
>>
>>
>> "amdx" <amdx@knology.net> wrote in message
>> news:7baf9$4c754008$45013905$14209@KNOLOGY.NET...
>>> Several years ago while making inductors for tuning a class E amplifier
>>> we
>>> end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore,
```

>>> gapped I think,
>>> but it has been awhile. The inductor was driven hard but below
>>> saturation.
>>> The problem; the 1/2 turn got HOT. Four turns or five turns were ok.
>>> My physicist friend had an EE verify the problem 2000 miles away.
>>>
>>> So, can anyone tell me why 1/2 turn would make such a difference in the
>>> heating?
>>>
>>>   Thanks, MikeK
>>>
>>
>>
>> Resonance? (I assume by 1/2 you mean the 4.5 inductor?)
> Yes, a 4 and 1/2 turn inductor had the 1/2 turn overheat.
>

huh?

The half turn and the other turns were ok? This is impossible!?!?! One has the same current through the whole coil and if the wire was uniform then it should heat heally well. Not only that copper is a good heat conductor so if the 1/2 turn was heating up then he heat should spread pretty quickly.

This assumes everything else is uniform along the coil. Something has to be going on that your not telling us? Ideally the heat should be uniformly distributed along the coil.

By "HOT" I assume you mean much much hotter than the other coils?

Heat is generated by the current, is it not? and the current should be uniform throughout the wire? The resistance of the wire itself should also be uniform. This suggests that the heat dissipated per unit length is independent of position.

Were both ends hot? If not then something else is going on. Because you are saying the .5 end of a 4.5 coil got HOT. Yet which end? the 4.5 coil has two .5 ends and should in theory be symmetric and hence both get equally HOT. If they wern't then something is aloof.

From 8126744647315100401
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!
newsfeed2.telusplanet.net!newsfeed.telus.net!news-in-02.newsfeed.easynews.com!
easynews!core-easynews-01!easynews.com!en-nntp-02.dc1.easynews.com.POSTED!not-for-

mail
From: Spehro Pefhany <speffSNIP@interlogDOTyou.knowwhat>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor
Organization: Rather
Message-ID: <mnoa76h59je598fuq829in0i3mnk428982@4ax.com>
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 22
X-Complaints-To: abuse@easynews.com
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Wed, 25 Aug 2010 14:39:53 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:3729 sci.electronics.design:182594

On Wed, 25 Aug 2010 11:09:35 -0500, "amdx" <amdx@knology.net> wrote:

>Several years ago while making inductors for tuning a class E amplifier we
>end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore, gapped I
>think,
>but it has been awhile. The inductor was driven hard but below saturation.
>The problem; the 1/2 turn got HOT. Four turns or five turns were ok.
> My physicist friend had an EE verify the problem 2000 miles away.
>
>So, can anyone tell me why 1/2 turn would make such a difference in the
>heating?
>
>   Thanks, MikeK
>

I think it's forcing a substantial portion of the flux to pass through half of the core and thus increasing the core losses.

There's a half turn technique used in transformer design that ends up with two half turns in parallel IIRC. Maybe you could use that.

From -6755589241567206460
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail

From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<i53m65$s2c$1@news.eternal-september.org>
<7f589$4c755cac$45013905$6863@KNOLOGY.NET> <i53nja$2qd$1@news.eternal-september.org>
Subject: Re: Heating in 4-1/2 turn inductor
Date: Wed, 25 Aug 2010 15:09:36 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 100825-0, 08/25/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <35867$4c757848$45013905$28583@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 72
X-Trace: 358674c757848e0a49ca028583
Xref: g2news1.google.com rec.radio.amateur.homebrew:3730
sci.electronics.design:182606

"Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
news:i53nja$2qd$1@news.eternal-september.org...
>
>
> "amdx" <amdx@knology.net> wrote in message
> news:7f589$4c755cac$45013905$6863@KNOLOGY.NET...
>>
>> "Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
>> news:i53m65$s2c$1@news.eternal-september.org...
>>>
>>>
>>> "amdx" <amdx@knology.net> wrote in message
>>> news:7baf9$4c754008$45013905$14209@KNOLOGY.NET...
>>>> Several years ago while making inductors for tuning a class E amplifier
>>>> we
>>>> end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore,
>>>> gapped I think,
>>>> but it has been awhile. The inductor was driven hard but below
>>>> saturation.
>>>> The problem; the 1/2 turn got HOT. Four turns or five turns were ok.
>>>> My physicist friend had an EE verify the problem 2000 miles away.
>>>>
>>>> So, can anyone tell me why 1/2 turn would make such a difference in the
>>>> heating?
>>>>
>>>>   Thanks, MikeK
>>>>
>>>
>>>

>>> Resonance? (I assume by 1/2 you mean the 4.5 inductor?)
>> Yes, a 4 and 1/2 turn inductor had the 1/2 turn overheat.
>>
>
> huh?
>
> The half turn and the other turns were ok? This is impossible!?!?!

Not impossible, there's more than one heating mechanism, not that I can
explain them,
but I know there can be heating in the fringe field of the gap.

>One has the same current through the whole coil and if the wire was uniform
>then it should heat heally well. Not only that copper is a good heat
>conductor so if the 1/2 turn was heating up then he heat should spread
>pretty quickly.
>
> This assumes everything else is uniform along the coil. Something has to
> be going on that your not telling us? Ideally the heat should be uniformly
> distributed along the coil.
>
> By "HOT" I assume you mean much much hotter than the other coils?

 Hot enough to burn the insulators used.
>
> Heat is generated by the current, is it not? and the current should be
> uniform throughout the wire? The resistance of the wire itself should also
> be uniform. This suggests that the heat dissipated per unit length is
> independent of position.

Flux my not have been uniform through.
>
> Were both ends hot? If not then something else is going on. Because you
> are saying the .5 end of a 4.5 coil got HOT. Yet which end? the 4.5 coil
> has two .5 ends and should in theory be symmetric and hence both get
> equally HOT. If they wern't then something is aloof.
>
 LOLROTF, ya both ends would be a 1/2 turn??? I'm speechless
and don't know what to say. :-) Don't confuse me with such things!
                     MikeK

From -3024785540386062861
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
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X-Google-Thread: 1110fe,f403393f2ac7b19a
X-Google-NewGroupId: yes
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gid241b302a50,gid1617473143,gidf9f9045f03,domainid0,public,usenet

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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
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news2.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!
easynews.com!en-nntp-03.dc1.easynews.com.POSTED!SalmonEgg
From: Salmon Egg <SalmonEgg@sbcglobal.net>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.design,sci.physics.electromag
Subject: Re: Heating in 4-1/2 turn inductor
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<8c64b$4c755b30$45013905$6500@KNOLOGY.NET>
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
Message-ID: <SalmonEgg-9D2956.13362925082010@news60.forteinc.com>
Lines: 24
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Wed, 25 Aug 2010 13:36:29 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:3731
sci.electronics.design:182609 sci.physics.electromag:8498

In article <8c64b$4c755b30$45013905$6500@KNOLOGY.NET>,
 "amdx" <amdx@knology.net> wrote:

> "amdx" <amdx@knology.net> wrote in message
> news:7baf9$4c754008$45013905$14209@KNOLOGY.NET...
> > Several years ago while making inductors for tuning a class E amplifier we
> > end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore, gapped
> > I think,
> > but it has been awhile. The inductor was driven hard but below saturation.
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> > My physicist friend had an EE verify the problem 2000 miles away.
> >
> > So, can anyone tell me why 1/2 turn would make such a difference in the
> > heating?
> >
> >                                Thanks, MikeK
> >

How do you make a half turn inductor?

Bill

--
An old man would be better off never having been born.


From -3671610457468329006
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
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X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid1617473143,gidf9f9045f03,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 25 Aug 2010 15:43:22 -0500
From: John Larkin <jjlarkin@highNOTlandTHIStechnologyPART.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.design,sci.physics.electromag
Subject: Re: Heating in 4-1/2 turn inductor
Date: Wed, 25 Aug 2010 13:43:17 -0700
Message-ID: <p10b76hri0jonbik0a7k1ap1uhepd24e6k@4ax.com>
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<8c64b$4c755b30$45013905$6500@KNOLOGY.NET>
<SalmonEgg-9D2956.13362925082010@news60.forteinc.com>
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yaaZZw==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3732
sci.electronics.design:182610 sci.physics.electromag:8499

On Wed, 25 Aug 2010 13:36:29 -0700, Salmon Egg
<SalmonEgg@sbcglobal.net> wrote:

>In article <8c64b$4c755b30$45013905$6500@KNOLOGY.NET>,
> "amdx" <amdx@knology.net> wrote:
>
>> "amdx" <amdx@knology.net> wrote in message
>> news:7baf9$4c754008$45013905$14209@KNOLOGY.NET...
>> > Several years ago while making inductors for tuning a class E amplifier we
>> > end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore, gapped
>> > I think,
>> > but it has been awhile. The inductor was driven hard but below saturation.
>> > The problem; the 1/2 turn got HOT. Four turns or five turns were ok.
>> > My physicist friend had an EE verify the problem 2000 miles away.
>> >
>> > So, can anyone tell me why 1/2 turn would make such a difference in the
>> > heating?

```
>> >
>> >                                Thanks, MikeK
>> >
>
>How do you make a half turn inductor?
>
>Bill
```

Bring wires out opposite slots on a pot core. I've seen it do strange stuff, too.

John

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From 3595542498469322582
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
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X-Google-Thread: 1110fe,f403393f2ac7b19a
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid1617473143,gidf9f9045f03,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 25 Aug 2010 16:57:11 -0500
Date: Wed, 25 Aug 2010 21:57:11 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.7) Gecko/
20100713 Thunderbird/3.1.1
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.design,sci.physics.electromag
Subject: Re: Heating in 4-1/2 turn inductor
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<8c64b$4c755b30$45013905$6500@KNOLOGY.NET>
<SalmonEgg-9D2956.13362925082010@news60.forteinc.com>
In-Reply-To: <SalmonEgg-9D2956.13362925082010@news60.forteinc.com>
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vBJMbekyhQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
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properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3733
sci.electronics.design:182621 sci.physics.electromag:8501

On 8-25-2010 20:36, Salmon Egg wrote:
> In article<8c64b$4c755b30$45013905$6500@KNOLOGY.NET>,
>   "amdx"<amdx@knology.net>  wrote:
>
>> "amdx"<amdx@knology.net>  wrote in message
>> news:7baf9$4c754008$45013905$14209@KNOLOGY.NET...
>>> Several years ago while making inductors for tuning a class E amplifier we
>>> end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore, gapped
>>> I think,
>>> but it has been awhile. The inductor was driven hard but below saturation.
>>> The problem; the 1/2 turn got HOT.  Four turns or five turns were ok.
>>> My physicist friend had an EE verify the problem 2000 miles away.
>>>
>>> So, can anyone tell me why 1/2 turn would make such a difference in the
>>> heating?
>>>
>>>                                  Thanks, MikeK
>>>
>
> How do you make a half turn inductor?
>
> Bill
>

Half a circle, as used at say 450 MHz and up (the one end is soldered to
one point on a circuit board, goes straight up say 1/4", bends over 180
degrees and the other end soldered to another pad on the PC board...just
like this "U" but flipped over (upsidedown U)...




From 3669832190348644375
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<i53m65$s2c$1@news.eternal-september.org>
<7f589$4c755cac$45013905$6863@KNOLOGY.NET> <i53nja$2qd$1@news.eternal-
september.org> <35867$4c757848$45013905$28583@KNOLOGY.NET>
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Subject: Re: Heating in 4-1/2 turn inductor
Date: Wed, 25 Aug 2010 21:22:09 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3664
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3664
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 100825-0, 08/25/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <859fa$4c75cf97$18ec6dd7$830@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 77
X-Trace: 859fa4c75cf97bd49c87200830
Xref: g2news1.google.com rec.radio.amateur.homebrew:3734
sci.electronics.design:182689


"amdx" <amdx@knology.net> wrote in message
news:35867$4c757848$45013905$28583@KNOLOGY.NET...
>
> "Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
> news:i53nja$2qd$1@news.eternal-september.org...
>>
>>
>> "amdx" <amdx@knology.net> wrote in message
>> news:7f589$4c755cac$45013905$6863@KNOLOGY.NET...
>>>
>>> "Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
>>> news:i53m65$s2c$1@news.eternal-september.org...
>>>>
>>>>
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>>>> news:7baf9$4c754008$45013905$14209@KNOLOGY.NET...
>>>>> Several years ago while making inductors for tuning a class E
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>>>>> end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore,
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>>>>> saturation.
>>>>> The problem; the 1/2 turn got HOT.  Four turns or five turns were ok.
>>>>> My physicist friend had an EE verify the problem 2000 miles away.
>>>>>
>>>>> So, can anyone tell me why 1/2 turn would make such a difference in
>>>>> the heating?
>>>>>
>>>>>                                 Thanks, MikeK
>>>>>
>>>>
>>>>
>>>> Resonance? (I assume by 1/2 you mean the 4.5 inductor?)
>>>  Yes, a 4 and 1/2 turn inductor had the 1/2 turn overheat.
>>>
```

>>
>> huh?
>>
>> The half turn and the other turns were ok? This is impossible!?!?!
>
> Not impossible, there's more than one heating mechanism, not that I can
> explain them,
> but I know there can be heating in the fringe field of the gap.
>
>>One has the same current through the whole coil and if the wire was
>>uniform then it should heat heally well. Not only that copper is a good
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>>
>> This assumes everything else is uniform along the coil. Something has to
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>
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>>
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>
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>>
>> Were both ends hot? If not then something else is going on. Because you
>> are saying the .5 end of a 4.5 coil got HOT. Yet which end? the 4.5 coil
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>> equally HOT. If they wern't then something is aloof.
>>
> LOLROTF, ya both ends would be a 1/2 turn??? I'm speechless
> and don't know what to say. :-) Don't confuse me with such things!
>   MikeK
BTW we were use the inductor at about 660 khz.
Mike

From -3958375273077798462
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx01.iad01.newshosting.com!
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border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 25 Aug 2010 22:11:28 -0500
Date: Wed, 25 Aug 2010 22:11:38 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.8) Gecko/
20100802 Thunderbird/3.1.2
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
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X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3735
sci.electronics.design:182694
```

On 8/25/2010 11:09 AM, amdx wrote:

> Several years ago while making inductors for tuning a class E amplifier we
> end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore, gapped I
> think,
> but it has been awhile. The inductor was driven hard but below saturation.
> The problem; the 1/2 turn got HOT. Four turns or five turns were ok.
> My physicist friend had an EE verify the problem 2000 miles away.
>
> So, can anyone tell me why 1/2 turn would make such a difference in the
> heating?
>
> Thanks, MikeK

This kind of odd-ball result can be caused by "parasitics" - in other words, a high overtone excited by just the right length of inductor paired with just the right stray capacitance, and energized by something that can hit the high notes....

Brian W

```
From -9211100713263743242
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<i53m65$s2c$1@news.eternal-september.org>
<7f589$4c755cac$45013905$6863@KNOLOGY.NET> <i53nja$2qd$1@news.eternal-
september.org>
Subject: Re: Heating in 4-1/2 turn inductor
Date: Thu, 26 Aug 2010 06:35:01 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3664
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3664
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 100826-0, 08/26/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 64
X-Trace: 0ec0b4c7650d8bd49c87209856
Xref: g2news1.google.com rec.radio.amateur.homebrew:3737
sci.electronics.design:182742


"Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
news:i53nja$2qd$1@news.eternal-september.org...
>
>
> "amdx" <amdx@knology.net> wrote in message
> news:7f589$4c755cac$45013905$6863@KNOLOGY.NET...
>>
>> "Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
>> news:i53m65$s2c$1@news.eternal-september.org...
>>>
>>>
>>> "amdx" <amdx@knology.net> wrote in message
>>> news:7baf9$4c754008$45013905$14209@KNOLOGY.NET...
>>>> Several years ago while making inductors for tuning a class E amplifier
>>>> we
>>>> end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore,
>>>> gapped I think,
>>>> but it has been awhile. The inductor was driven hard but below
>>>> saturation.
```

>>>> The problem; the 1/2 turn got HOT. Four turns or five turns were ok.
>>>> My physicist friend had an EE verify the problem 2000 miles away.
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>>>> heating?
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describing it
was the LAST 1/2 turn wound on the bobbin.
                                          MikeK

From 5415968827790447306
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<OoednWfrKpH9RujRnZ2dnUVZ5uOdnZ2d@giganews.com>
Subject: Re: Heating in 4-1/2 turn inductor
Date: Thu, 26 Aug 2010 06:41:52 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3664
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3664
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X-Antivirus: avast! (VPS 100826-0, 08/26/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <e835e$4c765272$18ec6dd7$10285@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 36
X-Trace: e835e4c765272bd49c87210285
Xref: g2news1.google.com rec.radio.amateur.homebrew:3738
sci.electronics.design:182744

"brian whatcott" <betwys1@sbcglobal.net> wrote in message
news:OoednWfrKpH9RujRnZ2dnUVZ5uOdnZ2d@giganews.com...
> On 8/25/2010 11:09 AM, amdx wrote:
>> Several years ago while making inductors for tuning a class E amplifier
>> we
>> end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore,
>> gapped I
>> think,
>> but it has been awhile. The inductor was driven hard but below
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>>   My physicist friend had an EE verify the problem 2000 miles away.
>>
>> So, can anyone tell me why 1/2 turn would make such a difference in the
>> heating?
>>
>>   Thanks, MikeK
>>
>>
>
> This kind of odd-ball result can be caused by "parasitics" - in other
> words, a high overtone excited by just the right length of inductor
> paired with just the right stray capacitance, and energized by something
> that can hit the high notes....
>
> Brian W

Maybe, but we had it confirmed by someone else and I doubt very much

they developed the circuit we were using to do the test. We used it to
cancel
out the capacitance of a piezo transducer. Driving about 250 watts into a
20 ohm load, at about 600 khz.
MikeK

From 8445530587076174834
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe16.iad.POSTED!7564ea0f!not-for-mail
From: "Tim Williams" <tmoranwms@charter.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<i53m65$s2c$1@news.eternal-september.org>
<7f589$4c755cac$45013905$6863@KNOLOGY.NET> <i53nja$2qd$1@news.eternal-
september.org> <ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET>
Subject: Re: Heating in 4-1/2 turn inductor
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Response
Message-ID: <1atdo.100879$4B7.42604@newsfe16.iad>
NNTP-Posting-Host: mddniijonlkaabonaolgpajgcgioinpb
X-Complaints-To: abuse@charter.net
X-Trace:
kmpklpbamjoakdjphajekhgjjdgmjengbjabjaigphpkkfgmmddniijonlkaabondihalkgihoejnicndj
efndgglegoicobkcpdjbpldnikicngfkjhcbijfgloooianbcepidhphobliof
NNTP-Posting-Date: Thu, 26 Aug 2010 12:33:01 UTC
Date: Thu, 26 Aug 2010 07:33:22 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:3739
sci.electronics.design:182758

"amdx" <amdx@knology.net> wrote in message
news:ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET...
> I got some confirmation from my collaborator, The 1/2 turn as were
> describing it
> was the LAST 1/2 turn wound on the bobbin.

It doesn't happen to be nicked, forming a shorted turn perhaps?

Tim

```
--
Deep Friar: a very philosophical monk.
Website: http://webpages.charter.net/dawill/tmoranwms




From 2392325864806313241
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<i53m65$s2c$1@news.eternal-september.org>
<7f589$4c755cac$45013905$6863@KNOLOGY.NET> <i53nja$2qd$1@news.eternal-
september.org> <ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET>
<1atdo.100879$4B7.42604@newsfe16.iad>
Subject: Re: Heating in 4-1/2 turn inductor
Date: Thu, 26 Aug 2010 09:51:22 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3664
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3664
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 100826-0, 08/26/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <b4fb0$4c767eda$18ec6dd7$22089@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 14
X-Trace: b4fb04c767edabd49c87222089
Xref: g2news1.google.com rec.radio.amateur.homebrew:3740
sci.electronics.design:182781


"Tim Williams" <tmoranwms@charter.net> wrote in message
news:1atdo.100879$4B7.42604@newsfe16.iad...
> "amdx" <amdx@knology.net> wrote in message
> news:ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET...
>>  I got some confirmation from my collaborator,  The 1/2 turn as were
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>> was the LAST 1/2 turn wound on the bobbin.
>
> It doesn't happen to be nicked, forming a shorted turn perhaps?
>
  verified more than once.
```

```
From 2914240718776117720
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder2.cambriumusenet.nl!
feed.tweaknews.nl!193.201.147.85.MISMATCH!feed.xsnews.nl!border-2.ams.xsnews.nl!
feeder.news-service.com!85.214.198.2.MISMATCH!eternal-september.org!
feeder.eternal-september.org!.POSTED!not-for-mail
From: "Jeff Johnson" <Jeff_Johnson@Hotmail.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor
Date: Thu, 26 Aug 2010 13:40:45 -0500
Organization: A noiseless patient Spider
Lines: 1
Message-ID: <i56cfb$7ce$1@news.eternal-september.org>
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<i53m65$s2c$1@news.eternal-september.org>
<7f589$4c755cac$45013905$6863@KNOLOGY.NET> <i53nja$2qd$1@news.eternal-
september.org> <ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET>
Mime-Version: 1.0
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     posting-account="U2FsdGVkX1+Pl3D+ipcbH3RIDVaA31tdfdffx8xCTk4="
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In-Reply-To: <ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET>
X-Newsreader: Microsoft Windows Live Mail 14.0.8089.726
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Cancel-Lock: sha1:tx2WR/SRm9LQbJGclTSR+QylBMw=
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:3741
sci.electronics.design:182837



"amdx" <amdx@knology.net> wrote in message
news:ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET...
>
> "Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
> news:i53nja$2qd$1@news.eternal-september.org...
```

```
>>
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>>>> news:7baf9$4c754008$45013905$14209@KNOLOGY.NET...
>>>>> Several years ago while making inductors for tuning a class E
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>>>>>                                 Thanks, MikeK
>>>>>
>>>>
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>>>> Resonance? (I assume by 1/2 you mean the 4.5 inductor?)
>>>  Yes, a 4 and 1/2 turn inductor had the 1/2 turn overheat.
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```

>> equally HOT. If they wern't then something is aloof.
>>
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> was the LAST 1/2 turn wound on the bobbin.
>   MikeK

What you describing is,

```
     L1   V  L2
V1--/\/\--+--/--0
```

on the same core?

L2, the 1/2 turn part of the coil is behaving wildly different than expect?

After all, ideally L2 has resistance in direct proportion to the total winding which in this case 0.5*/4.5 ~ 11% of the total resistance of the coil.

In a single coil the power dissipation of the 1/2 turn would also be ~ 11% and this is quite easy to see. You are saying that it is much more than this as if the ratio's were turned up side down. Something like the 1/2 part dissipating 90% and the 4 turns part dissipating 10%?

if you agree with the layout of

```
     L1   V  L2
V1--/\/\--+--/--0
```

Then it is easy to see that in ideal circumstances the current through L1 should equal that of L2 and the I^2R heating would produce the results I described first.

Instead of assuming the two inductors are on the same core we can assume they are on different cores. This will help us understand if differences in flux could cause such problems.

You mentioned in another post that you were using AC to drive the coil? Did the effect happen with DC?

Did you measure the voltage on the 1/2 turn?

Was the core itself generating the heat or was it due to the 1/2 turn?

What was the total current through the coil?

Was it possible the coil could have been shorting out on another turn or the core?

Was it really 1/2 a turn getting hot or "just the end of it"?

Was the coil tested by itself outside the circuit? If so did it exhibit the same phenomena?

What was the end of the coil that generated the heat connected to? Was the connection itself possible cause for the heat?

Was the coil reversed in the circuit? If so did it exhibit the same problem with the ends switched?

You mentioned that you tried 4 turns and 5 turns and the problem went away. Did it go away completely or partially? Was those two coils made exactly the same way and connected the same or were they in any way different besides just the turn difference?

Was the coil one continuous piece? the 1/2 turn was not spliced on?

Did you try a 5.5 and/or 6 turn coil?

Did the 1/2 turn end get hot very quick or did it take a while? Basically seconds or minutes?

Did you try to change the direction of the core relative to the coil? If so did it make any difference?

Is there any possible way the core itself could have been generating the heat at the 1/2 turn and the effect you experienced was just the core heating up that 1/2 first?

Did you allow the inductor to run a long time? If so, What was the effect still? Was the whole coil hot or still just the 1/2 turn?

Hopefully you can answer some of these questions. It sounds to me like you didn't do much troubleshooting so I expect most of them can't be answered so the true reason probably will not be known.

From -6974299210465602549
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design

References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<i53m65$s2c$1@news.eternal-september.org>
<7f589$4c755cac$45013905$6863@KNOLOGY.NET> <i53nja$2qd$1@news.eternal-september.org> <ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET>
<i56cfb$7ce$1@news.eternal-september.org>
Subject: Re: Heating in 4-1/2 turn inductor
Date: Thu, 26 Aug 2010 16:08:01 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3664
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3664
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 100826-1, 08/26/2010), Outbound message
X-Antivirus-Status: Clean
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Organization: UseNetServer.com
Lines: 198
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Xref: g2news1.google.com rec.radio.amateur.homebrew:3742
sci.electronics.design:182860

"Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
news:i56cfb$7ce$1@news.eternal-september.org...
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> "amdx" <amdx@knology.net> wrote in message
> news:ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET...
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>>                                          MikeK
>
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> V1--/\/\--+--/--0
>
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>
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>
```

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>
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>

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> V1--/\/\--+--/--0
```

>
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>
> You mentioned in another post that you were using AC to drive the coil?
> Did the effect happen with DC?
>

Never tried it with dc.

> Did you measure the voltage on the 1/2 turn?
>

No.

> Was the core itself generating the heat or was it due to the 1/2 turn?
>

It's been ten years, all I recall is the insulation on the last 1/2 turn
of the coil
got charred.

> What was the total current through the coil?
>

I think about a litle over 2 amps at 600khz.

> Was it possible the coil could have been shorting out on another turn or
> the core?

No

> Was it really 1/2 a turn getting hot or "just the end of it"?
>

It was the 1/2 turn.

> Was the coil tested by itself outside the circuit? If so did it exhibit
> the same phenomena?
>

Not by us, but someone else confirmed our observation.

> What was the end of the coil that generated the heat connected to? Was the

> connection itself possible cause for the heat?
>
Naw.

> Was the coil reversed in the circuit? If so did it exhibit the same
> problem with the ends switched?
>
No

> You mentioned that you tried 4 turns and 5 turns and the problem went
> away. Did it go away completely or partially? Was those two coils made
> exactly the same way and connected the same or were they in any way
> different besides just the turn difference?
>
We shipped the product, as far as I know the didn't it back for replacement smoke.

> Was the coil one continuous piece? the 1/2 turn was not spliced on?
>
One continuous piece.

> Did you try a 5.5 and/or 6 turn coil?
No

>
> Did the 1/2 turn end get hot very quick or did it take a while? Basically
> seconds or minutes?
>
Minutes.

> Did you try to change the direction of the core relative to the coil? If
> so did it make any difference?
>
No

> Is there any possible way the core itself could have been generating the
> heat at the 1/2 turn and the effect you experienced was just the core
> heating up that 1/2 first?
>
I don't think so.

> Did you allow the inductor to run a long time? If so, What was the effect
> still? Was the whole coil hot or still just the 1/2 turn?
>
The whole think would have got hot, we were pushing limits.

> Hopefully you can answer some of these questions. It sounds to me like you
> didn't do much troubleshooting so I expect most of them can't be answered
> so the true reason probably will not be known.
>
Probably, won't know the answer, once we learned the 1/2 turn overheated we didn't do it again.
But it stuck as a curiosity. I had one of the overheated 4-1/2 turn bobbins

hanging on a cord over my
bench for years. It's been ten years but my old bench is still the same,
next time I stop in I'll see if it
the bobbins is still hanging.

MikeK

```
From -2918188756999761027
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 26 Aug 2010 18:06:04 -0500
Date: Thu, 26 Aug 2010 18:06:17 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.8) Gecko/
20100802 Thunderbird/3.1.2
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<OoednWfrKpH9RujRnZ2dnUVZ5uOdnZ2d@giganews.com>
<e835e$4c765272$18ec6dd7$10285@KNOLOGY.NET>
In-Reply-To: <e835e$4c765272$18ec6dd7$10285@KNOLOGY.NET>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <x5mdnVpH3M3BbuvRnZ2dnUVZ5tydnZ2d@giganews.com>
Lines: 41
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
MzfwQCTIJ0hsDtzPFEqkjLbsc6aI5dD4XeyOr60yKCq+1c79hNJMX0pzUJHhK1Sx8H0OHrShDm4TG9K!
e9j4aI5wPfiOBywsmXDFM+JBA67aziV4AjCvtG8L7ehasRdB8ckz6WxezOp/jIoGy2pVWeg7U9w=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3743
sci.electronics.design:182887
```

On 8/26/2010 6:41 AM, amdx wrote:
> "brian whatcott"<betwys1@sbcglobal.net> wrote in message
> news:OoednWfrKpH9RujRnZ2dnUVZ5uOdnZ2d@giganews.com...

>> On 8/25/2010 11:09 AM, amdx wrote:
>>> Several years ago while making inductors for tuning a class E amplifier
>>> we
>>> end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore,
>>> gapped I
>>> think,
>>> but it has been awhile. The inductor was driven hard but below
>>> saturation.
>>> The problem; the 1/2 turn got HOT. Four turns or five turns were ok.
>>>   My physicist friend had an EE verify the problem 2000 miles away.
>>>
>>> So, can anyone tell me why 1/2 turn would make such a difference in the
>>> heating?
>>>
>>>   Thanks, MikeK
>>>
>>>
>>
>> This kind of odd-ball result can be caused by "parasitics" - in other
>> words, a high overtone excited by just the right length of inductor
>> paired with just the right stray capacitance, and energized by something
>> that can hit the high notes....
>>
>> Brian W
>
>   Maybe, but we had it confirmed by someone else and I doubt very much
> they developed the circuit we were using to do the test. We used it to
> cancel
> out the capacitance of a piezo transducer. Driving about 250 watts into a
> 20 ohm load, at about 600 khz.
>   MikeK
>
>

You don't have to guess whether I am right or wrong: you just have to
hang a 200MHz bandwidth scope on the hot end, and see what you get.

Brian W

From 2457998336733872800
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
newsfeed.straub-nv.de!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor

```
Date: Thu, 26 Aug 2010 16:45:14 -0700
Organization: A noiseless patient Spider
Lines: 22
Message-ID: <i56uag$ics$1@news.eternal-september.org>
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<i53m65$s2c$1@news.eternal-september.org>
<7f589$4c755cac$45013905$6863@KNOLOGY.NET> <i53nja$2qd$1@news.eternal-
september.org> <ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET>
<1atdo.100879$4B7.42604@newsfe16.iad> <b4fb0$4c767eda$18ec6dd7$22089@KNOLOGY.NET>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 26 Aug 2010 23:45:20 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="v3hI5Y7fGtxYNdFCXUBZQA";
     logging-data="18844"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+da/RLoJ2legX7LkgPpNZ/++HSPusB3Mc="
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.8) Gecko/
20100802 Thunderbird/3.1.2
In-Reply-To: <b4fb0$4c767eda$18ec6dd7$22089@KNOLOGY.NET>
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 100826-1, 08/26/2010), Outbound message
Cancel-Lock: sha1:CwowwUBwRhAJeIkVWrwqB12Y0O0=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3744
sci.electronics.design:182893

On 8/26/2010 7:51 AM, amdx wrote:
> "Tim Williams"<tmoranwms@charter.net>  wrote in message
> news:1atdo.100879$4B7.42604@newsfe16.iad...
>> "amdx"<amdx@knology.net>  wrote in message
>> news:ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET...
>>>   I got some confirmation from my collaborator,  The 1/2 turn as were
>>> describing it
>>> was the LAST 1/2 turn wound on the bobbin.
>>
>> It doesn't happen to be nicked, forming a shorted turn perhaps?
>>
>    verified more than once.
>
>

There isn't a cold solder joint at the heating end of the coil?  This
would result in localized heating to one end of the coil ... strange is
all I can say.

Regards,
JS




From 8800204774755296049
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
```

```
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor
Date: Thu, 26 Aug 2010 16:49:07 -0700
Organization: A noiseless patient Spider
Lines: 31
Message-ID: <i56uhp$ics$2@news.eternal-september.org>
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<i53m65$s2c$1@news.eternal-september.org>
<7f589$4c755cac$45013905$6863@KNOLOGY.NET> <i53nja$2qd$1@news.eternal-
september.org> <ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET>
<1atdo.100879$4B7.42604@newsfe16.iad> <b4fb0$4c767eda$18ec6dd7$22089@KNOLOGY.NET>
<i56uag$ics$1@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 26 Aug 2010 23:49:13 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="v3hI5Y7fGtxYNdFCXUBZQA";
     logging-data="18844"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX193HKiZB006hy+viwiHwOoie9tXF/HCuZ4="
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.8) Gecko/
20100802 Thunderbird/3.1.2
In-Reply-To: <i56uag$ics$1@news.eternal-september.org>
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 100826-1, 08/26/2010), Outbound message
Cancel-Lock: sha1:LIoaLzjQd0qEQMEvXFkd3JcxaMI=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3745
sci.electronics.design:182894

On 8/26/2010 4:45 PM, John Smith wrote:
> On 8/26/2010 7:51 AM, amdx wrote:
>> "Tim Williams"<tmoranwms@charter.net> wrote in message
>> news:1atdo.100879$4B7.42604@newsfe16.iad...
>>> "amdx"<amdx@knology.net> wrote in message
>>> news:ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET...
>>>> I got some confirmation from my collaborator, The 1/2 turn as were
>>>> describing it
>>>> was the LAST 1/2 turn wound on the bobbin.
>>>
>>> It doesn't happen to be nicked, forming a shorted turn perhaps?
>>>
>> verified more than once.
>>
>>
>
> There isn't a cold solder joint at the heating end of the coil? This
> would result in localized heating to one end of the coil ... strange is
```

> all I can say.
>
> Regards,
> JS
>

Never mind, the confirmation you mention, done by another, was obviously done on another coil ... duh, should have read all the posts before commenting ...

Regards,
JS

```
From -3812817203891207031
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 1110fe,f403393f2ac7b19a
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid1617473143,gidf9f9045f03,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.isomediainc!news.posted.isomediainc.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 26 Aug 2010 21:13:55 -0500
Message-ID: <4C77240F.CB73F29B@Hovnanian.com>
Date: Thu, 26 Aug 2010 19:33:51 -0700
From: "Paul Hovnanian P.E." <Paul@Hovnanian.com>
X-Mailer: Mozilla 4.72 [en] (X11; U; Linux 2.2.14-5.0 i586)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.design,sci.physics.electromag
Subject: Re: Heating in 4-1/2 turn inductor
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<8c64b$4c755b30$45013905$6500@KNOLOGY.NET>
<SalmonEgg-9D2956.13362925082010@news60.forteinc.com>
<p10b76hri0jonbik0a7k1ap1uhepd24e6k@4ax.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 39
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 72.251.76.189
X-Trace: sv3-j6icANST/
uq3dDJqKmrJkGAWVOMHlJys+8z06hDmPLq+0xjS0OCQRvXtrR0l4TGu3yNePNyvkNfDJ50!
QJjakrxO97S73VE4slV2jtJJ41V8PZ42CPGyg16qRceofXiDGYYWO+pt++bQOusIJCcycal2LM7x!wCA=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

```
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3746
sci.electronics.design:182914 sci.physics.electromag:8527

John Larkin wrote:
>
> On Wed, 25 Aug 2010 13:36:29 -0700, Salmon Egg
> <SalmonEgg@sbcglobal.net> wrote:
>
> >In article <8c64b$4c755b30$45013905$6500@KNOLOGY.NET>,
> > "amdx" <amdx@knology.net> wrote:
> >
> >> "amdx" <amdx@knology.net> wrote in message
> >> news:7baf9$4c754008$45013905$14209@KNOLOGY.NET...
> >> > Several years ago while making inductors for tuning a class E amplifier we
> >> > end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore, gapped
> >> > I think,
> >> > but it has been awhile. The inductor was driven hard but below saturation.
> >> > The problem; the 1/2 turn got HOT.  Four turns or five turns were ok.
> >> > My physicist friend had an EE verify the problem 2000 miles away.
> >> >
> >> > So, can anyone tell me why 1/2 turn would make such a difference in the
> >> > heating?
> >> >
> >> >                                Thanks, MikeK
> >> >
> >
> >How do you make a half turn inductor?
> >
> >Bill
>
> Bring wires out opposite slots on a pot core. I've seen it do strange
> stuff, too.
>
> John

It may have something to do with the magnetic path handling the half
turn. The core may be saturating sooner.

--
Paul Hovnanian     mailto:Paul@Hovnanian.com
------------------------------------------------------------------
A mathematician is a machine for converting coffee into theorems.


From 7221650964895464892
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
```

```
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: "Jeff Johnson" <Jeff_Johnson@Hotmail.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor
Date: Fri, 27 Aug 2010 01:07:37 -0500
Organization: A noiseless patient Spider
Lines: 3
Message-ID: <i57kn8$rfs$1@news.eternal-september.org>
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<i53m65$s2c$1@news.eternal-september.org>
<7f589$4c755cac$45013905$6863@KNOLOGY.NET> <i53nja$2qd$1@news.eternal-
september.org> <ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET>
<i56cfb$7ce$1@news.eternal-september.org>
<72245$4c76d77e$18ec6dd7$28051@KNOLOGY.NET>
Mime-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="Windows-1252";
     reply-type=response
Content-Transfer-Encoding: 7bit
Injection-Date: Fri, 27 Aug 2010 06:07:37 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="wjKXVvRSZnblv+Tmc9naVA";
     logging-data="28156"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19jSHvVsoFTNfYZa5OGn7T8u9rh/Nw7HHc="
X-MimeOLE: Produced By Microsoft MimeOLE V14.0.8089.726
In-Reply-To: <72245$4c76d77e$18ec6dd7$28051@KNOLOGY.NET>
X-Newsreader: Microsoft Windows Live Mail 14.0.8089.726
Importance: Normal
Cancel-Lock: sha1:Hkf6lMxyp9h/LMjfF/AWPNdInk4=
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:3747
sci.electronics.design:182947



"amdx" <amdx@knology.net> wrote in message
news:72245$4c76d77e$18ec6dd7$28051@KNOLOGY.NET...
>
> "Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
> news:i56cfb$7ce$1@news.eternal-september.org...
>>
>>
>> "amdx" <amdx@knology.net> wrote in message
>> news:ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET...
>>>
>>> "Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
>>> news:i53nja$2qd$1@news.eternal-september.org...
>>>>
>>>>
>>>> "amdx" <amdx@knology.net> wrote in message
>>>> news:7f589$4c755cac$45013905$6863@KNOLOGY.NET...
```

```
>>>>>
>>>>> "Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
>>>>> news:i53m65$s2c$1@news.eternal-september.org...
>>>>>>
>>>>>>
>>>>>> "amdx" <amdx@knology.net> wrote in message
>>>>>> news:7baf9$4c754008$45013905$14209@KNOLOGY.NET...
>>>>>>> Several years ago while making inductors for tuning a class E
>>>>>>> amplifier we
>>>>>>> end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore,
>>>>>>> gapped I think,
>>>>>>> but it has been awhile. The inductor was driven hard but below
>>>>>>> saturation.
>>>>>>> The problem; the 1/2 turn got HOT.  Four turns or five turns were
>>>>>>> ok.
>>>>>>> My physicist friend had an EE verify the problem 2000 miles away.
>>>>>>>
>>>>>>> So, can anyone tell me why 1/2 turn would make such a difference in
>>>>>>> the heating?
>>>>>>>
>>>>>>>                                 Thanks, MikeK
>>>>>>>
>>>>>>
>>>>>>
>>>>>> Resonance? (I assume by 1/2 you mean the 4.5 inductor?)
>>>>>  Yes, a 4 and 1/2 turn inductor had the 1/2 turn overheat.
>>>>>
>>>>
>>>> huh?
>>>>
>>>> The half turn and the other turns were ok? This is impossible!?!?!  One
>>>> has the same current through the whole coil and if the wire was uniform
>>>> then it should heat heally well. Not only that copper is a good heat
>>>> conductor so if the 1/2 turn was heating up then he heat should spread
>>>> pretty quickly.
>>>>
>>>> This assumes everything else is uniform along the coil. Something has
>>>> to be going on that your not telling us? Ideally the heat should be
>>>> uniformly distributed along the coil.
>>>>
>>>> By "HOT" I assume you mean much much hotter than the other coils?
>>>>
>>>> Heat is generated by the current, is it not? and the current should be
>>>> uniform throughout the wire? The resistance of the wire itself should
>>>> also be uniform. This suggests that the heat dissipated per unit length
>>>> is independent of position.
>>>>
>>>> Were both ends hot? If not then something else is going on. Because you
>>>> are saying the .5 end of a 4.5 coil got HOT. Yet which end? the 4.5
>>>> coil has two .5 ends and should in theory be symmetric and hence both
>>>> get equally HOT. If they wern't then something is aloof.
>>>>
>>>  I got some confirmation from my collaborator,  The 1/2 turn as were
>>> describing it
>>> was the LAST 1/2 turn wound on the bobbin.
>>>                                          MikeK
>>
>> What you describing is,
>>
>>     L1   V  L2
>> V1--/\/\--+--/--0
>>
>> on the same core?
>>
>> L2, the 1/2 turn part of the coil is behaving wildly different than
>> expect?
>>
>> After all, ideally L2 has resistance in direct proportion to the total
>> winding which in this case 0.5*/4.5 ~ 11% of the total resistance of the
>> coil.
>>
>> In a single coil the power dissipation of the 1/2 turn would also be ~
>> 11% and this is quite easy to see. You are saying that it is much more
>> than this as if the ratio's were turned up side down. Something like the
>> 1/2 part dissipating 90% and the 4 turns part dissipating 10%?
>>
>> if you agree with the layout of
>>
>>     L1   V  L2
>> V1--/\/\--+--/--0
>>
>> Then it is easy to see that in ideal circumstances the current through L1
>> should equal that of L2 and the I^2R heating would produce the results I
>> described first.
>>
>> Instead of assuming the two inductors are on the same core we can assume
>> they are on different cores. This will help us understand if differences
>> in flux could cause such problems.
>>
>> You mentioned in another post that you were using AC to drive the coil?
>> Did the effect happen with DC?
>>
>  Never tried it with dc.
>
>> Did you measure the voltage on the 1/2 turn?
>>
> No.
>
>> Was the core itself generating the heat or was it due to the 1/2 turn?
>>
>  It's been ten years, all I recall is the insulation on the last 1/2 turn
> of the coil
> got charred.
>
>> What was the total current through the coil?
>>
```

```
>
> I think about a litile over 2 amps at 600khz.
>
>> Was it possible the coil could have been shorting out on another turn or
>> the core?
>
> No
>
>> Was it really 1/2 a turn getting hot or "just the end of it"?
>>
> It was the 1/2 turn.
>
>> Was the coil tested by itself outside the circuit? If so did it exhibit
>> the same phenomena?
>>
>  Not by us, but someone else confirmed our observation.
>
>> What was the end of the coil that generated the heat connected to? Was
>> the connection itself possible cause for the heat?
>>
>  Naw.
>
>> Was the coil reversed in the circuit? If so did it exhibit the same
>> problem with the ends switched?
>>
>  No
>
>> You mentioned that you tried 4 turns and 5 turns and the problem went
>> away. Did it go away completely or partially? Was those two coils made
>> exactly the same way and connected the same or were they in any way
>> different besides just the turn difference?
>>
> We shipped the product, as far as I know the didn't it back for
> replacement smoke.
>
>> Was the coil one continuous piece? the 1/2 turn was not spliced on?
>>
> One continuous piece.
>
>> Did you try a 5.5 and/or 6 turn coil?
> No
>
>>
>> Did the 1/2 turn end get hot very quick or did it take a while? Basically
>> seconds or minutes?
>>
>  Minutes.
>
>> Did you try to change the direction of the core relative to the coil? If
>> so did it make any difference?
>>
> No
>
```

>> Is there any possible way the core itself could have been generating the
>> heat at the 1/2 turn and the effect you experienced was just the core
>> heating up that 1/2 first?
>>
> I don't think so.
>
>> Did you allow the inductor to run a long time? If so, What was the effect
>> still? Was the whole coil hot or still just the 1/2 turn?
>>
> The whole think would have got hot, we were pushing limits.
>
>> Hopefully you can answer some of these questions. It sounds to me like
>> you didn't do much troubleshooting so I expect most of them can't be
>> answered so the true reason probably will not be known.
>>
> Probably, won't know the answer, once we learned the 1/2 turn overheated
> we didn't do it again.
> But it stuck as a curiosity. I had one of the overheated 4-1/2 turn
> bobbins hanging on a cord over my
> bench for years. It's been ten years but my old bench is still the same,
> next time I stop in I'll see if it
> the bobbins is still hanging.
>

I don't know what to say. Just not enough information. If your looking from some exotic possibility I don't think you'll find one.

The reason is that the current through the wire will almost be surely the same through out all points along the wire. That precisely means that the heat generated per unit length will be the same. Even if you have some crazy resonance or core flux/transformer effect going on, that current in the wire has to be the same through the whole wire(assuming no shorts).

You can't have electrons bunch up on part of the wire and not on any other part. Even if you could, that bunch would have to flow through the wire from one part to another and on average it would heat it up uniformly.

The reason is simple, We all know that for a power supply when one electron is supplied on the wire one electron leaves it so there really is no way to "bunch" it up.

Now, if the wire is not uniform in size or resistance then the heating effect is not uniform. As smith mentioned about the joint connecting the coil. In this case it is possible that the joint could be heating up and it was being passed along to the 1/2 turn and it just happens that you didn't let it run long enough to heat up any more turns.

The 1/2 turn was really a point at the joint and the heat just spread about about 1/2 turn.

To me this is the most plausable case. I'm not sure if it's physically possible any other way that involves the coil itself generating generating the heat. (I gave a good reason about about electron flow being uniform in the wire)

It may be possible using some type of standing wave or transformer like effect but even here I can't see it possible if the wire's restance per unit length is constant.

```
From 1932137382807114632
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news2.google.com!npeer02.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
post02.iad.highwinds-media.com!newsfe20.iad.POSTED!7564ea0f!not-for-mail
From: "Tim Williams" <tmoranwms@charter.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<i53m65$s2c$1@news.eternal-september.org>
<7f589$4c755cac$45013905$6863@KNOLOGY.NET> <i53nja$2qd$1@news.eternal-
september.org> <ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET>
<i56cfb$7ce$1@news.eternal-september.org>
<72245$4c76d77e$18ec6dd7$28051@KNOLOGY.NET> <i57kn8$rfs$1@news.eternal-
september.org>
Subject: Re: Heating in 4-1/2 turn inductor
Lines: 47
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
Message-ID: <9RJdo.24156$1v3.14192@newsfe20.iad>
NNTP-Posting-Host: mddniijonlkaabonaolgpajgcgioinpb
X-Complaints-To: abuse@charter.net
X-Trace:
bagdcaddeagjpadohajekhgjjdgmjengdihommkbgjlffopmmddniijonlkaabondihalkgihoejnicnfl
aenejdgkloihejkcpdjbpldnikicngchlhleaemblkijbeofbanfllipfpcbfd
NNTP-Posting-Date: Fri, 27 Aug 2010 07:31:17 UTC
Date: Fri, 27 Aug 2010 02:31:38 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:3749
sci.electronics.design:182955
```

"Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
news:i57kn8$rfs$1@news.eternal-september.org...
<big fuckin snip>

> The reason is that the current through the wire will almost be surely
> the same through out all points along the wire.

Well, no:
http://en.wikipedia.org/wiki/Proximity_effect_%28electromagnetism%29

the current density varies strongly, especially if the wire is thick (curiously, it was never stated what size wire is in question, nor what type; 600kHz suggests fine stranded litz!).

Wire near the gap (which is usually placed in the center, right underneath the winding) experiences fringing fields, which dramatically increases losses.

> That precisely means that the heat generated per unit length will be the
> same.

Eddy currents in the center of the coil are much stronger than at the ends, so the center of a solenoid heats up much more strongly.

The uncooled coil in this video demonstrates proximity effect:
http://www.youtube.com/watch?v=nY66rBJvbpY
See the connections are clean and coppery, but the coil has seen better days. You can't really tell if the center turns are hotter; they probably are by a little bit.

Of course Kirchoff is harder to fool, obviously the total current flowing along the wire is the current flowing along the wire period. Unless there's a short, which supposedly was inspected as to have none.

None of these are an "end" effect. The only possible explanation is a short, or else, "look harder". It's plainly obvious that the cause is NOT "an additional half turn". It is only a coincidence that this symptom showed up between turns 4 and 5.

Tim

--
Deep Friar: a very philosophical monk.
Website: http://webpages.charter.net/dawill/tmoranwms

From 8146163901798754995
X-Google-Thread: fc2a5,c4f2e1e8b0583374
X-Google-NewGroupId: yes

X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!news.mixmin.net!aioe.org!not-for-mail
From: Andreu <sys1@sci.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: IF Transformers
Date: Fri, 27 Aug 2010 10:12:47 +0200
Organization: Aioe.org NNTP Server
Lines: 12
Message-ID: <i57s1v$12m$1@speranza.aioe.org>
References: <MPG.26de32dafd229857989682@news.virginmedia.com>
NNTP-Posting-Host: tfnZIBr+ZglrU5o6Xk1t4g.user.speranza.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Notice: Filtered by postfilter v. 0.8.2
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3750

Some info on IF cans.

http://www.angelfire.com/electronic/funwithtubes/IF_Can-1.html

Regards, Andreu.

Howard James wrote:
>
> I'm about to embark on a "vintage" valve (tube) receiver but have a

From 7066941027750755180
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
s9g2000yqd.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor
Date: Fri, 27 Aug 2010 01:52:29 -0700 (PDT)
Organization: http://groups.google.com
Lines: 34
Message-ID: <bd0c9179-dd76-4a5c-8d17-5ad5f824c139@s9g2000yqd.googlegroups.com>
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>

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NNTP-Posting-Host: 99.92.116.155
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1282899150 4507 127.0.0.1 (27 Aug 2010 08:52:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 27 Aug 2010 08:52:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s9g2000yqd.googlegroups.com; posting-host=99.92.116.155; posting-
account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.3)
 Gecko/20100423 Ubuntu/10.04 (lucid) Firefox/3.6.3,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3751
sci.electronics.design:182971
```

Hey OM:

First how many newsgroups do you have this thread cross posted on?

Second: A 1/2 turn is equal to 1 turn in a pot core so 4 and 1/2 turns
is the same as 5 turns.

Lastly OM: I think you are looking at a classic case of proximity
effect.

73 OM
de n8zu

On Aug 25, 4:09=A0pm, "amdx" <a...@knology.net> wrote:
> Several years ago while making inductors for tuning a class E amplifier w=
e
> end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore, gappe=
d I
> think,
> but it has been awhile. The inductor was driven hard but below saturation=
.
> The problem; the 1/2 turn got HOT. =A0Four turns or five turns were ok.
> =A0My physicist friend had an EE verify the problem 2000 miles away.
>
> So, can anyone tell me why 1/2 turn would make such a difference in the
> heating?
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Thanks, M=
ikeK

From 2059937818710149056

```
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<i53m65$s2c$1@news.eternal-september.org>
<7f589$4c755cac$45013905$6863@KNOLOGY.NET> <i53nja$2qd$1@news.eternal-
september.org> <ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET>
<i56cfb$7ce$1@news.eternal-september.org>
<72245$4c76d77e$18ec6dd7$28051@KNOLOGY.NET> <i57kn8$rfs$1@news.eternal-
september.org>
Subject: Re: Heating in 4-1/2 turn inductor
Date: Fri, 27 Aug 2010 09:57:31 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 100827-0, 08/27/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <51615$4c77d27b$45013905$21492@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 254
X-Trace: 516154c77d27be0a49ca021492
Xref: g2news1.google.com rec.radio.amateur.homebrew:3752
sci.electronics.design:183013


"Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
news:i57kn8$rfs$1@news.eternal-september.org...
>
>
> "amdx" <amdx@knology.net> wrote in message
> news:72245$4c76d77e$18ec6dd7$28051@KNOLOGY.NET...
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>> "Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
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>>> news:ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET...
>>>>
>>>> "Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
>>>> news:i53nja$2qd$1@news.eternal-september.org...
>>>>>
```

>>>>>
>>>>> "amdx" <amdx@knology.net> wrote in message
>>>>> news:7f589$4c755cac$45013905$6863@KNOLOGY.NET...
>>>>>>
>>>>>> "Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
>>>>>> news:i53m65$s2c$1@news.eternal-september.org...
>>>>>>>
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>>>>>>> news:7baf9$4c754008$45013905$14209@KNOLOGY.NET...
>>>>>>>> Several years ago while making inductors for tuning a class E
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>>>>>>>> end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore,
>>>>>>>> gapped I think,
>>>>>>>> but it has been awhile. The inductor was driven hard but below
>>>>>>>> saturation.
>>>>>>>> The problem; the 1/2 turn got HOT. Four turns or five turns were
>>>>>>>> ok.
>>>>>>>> My physicist friend had an EE verify the problem 2000 miles away.
>>>>>>>>
>>>>>>>> So, can anyone tell me why 1/2 turn would make such a difference in
>>>>>>>> the heating?
>>>>>>>>
>>>>>>>>   Thanks, MikeK
>>>>>>>>
>>>>>>>
>>>>>>>
>>>>>>> Resonance? (I assume by 1/2 you mean the 4.5 inductor?)
>>>>>> Yes, a 4 and 1/2 turn inductor had the 1/2 turn overheat.
>>>>>>
>>>>>
>>>>> huh?
>>>>>
>>>>> The half turn and the other turns were ok? This is impossible!?!?!
>>>>> One has the same current through the whole coil and if the wire was
>>>>> uniform then it should heat heally well. Not only that copper is a
>>>>> good heat conductor so if the 1/2 turn was heating up then he heat
>>>>> should spread pretty quickly.
>>>>>
>>>>> This assumes everything else is uniform along the coil. Something has
>>>>> to be going on that your not telling us? Ideally the heat should be
>>>>> uniformly distributed along the coil.
>>>>>
>>>>> By "HOT" I assume you mean much much hotter than the other coils?
>>>>>
>>>>> Heat is generated by the current, is it not? and the current should be
>>>>> uniform throughout the wire? The resistance of the wire itself should
>>>>> also be uniform. This suggests that the heat dissipated per unit
>>>>> length is independent of position.
>>>>>
>>>>> Were both ends hot? If not then something else is going on. Because
>>>>> you are saying the .5 end of a 4.5 coil got HOT. Yet which end? the
>>>>> 4.5 coil has two .5 ends and should in theory be symmetric and hence

```
>>>>> both get equally HOT. If they wern't then something is aloof.
>>>>>
>>>>  I got some confirmation from my collaborator,  The 1/2 turn as were
>>>> describing it
>>>> was the LAST 1/2 turn wound on the bobbin.
>>>>                                         MikeK
>>>
>>> What you describing is,
>>>
>>>     L1   V  L2
>>> V1--/\/\--+--/--0
>>>
>>> on the same core?
>>>
>>> L2, the 1/2 turn part of the coil is behaving wildly different than
>>> expect?
>>>
>>> After all, ideally L2 has resistance in direct proportion to the total
>>> winding which in this case 0.5*/4.5 ~ 11% of the total resistance of the
>>> coil.
>>>
>>> In a single coil the power dissipation of the 1/2 turn would also be ~
>>> 11% and this is quite easy to see. You are saying that it is much more
>>> than this as if the ratio's were turned up side down. Something like the
>>> 1/2 part dissipating 90% and the 4 turns part dissipating 10%?
>>>
>>> if you agree with the layout of
>>>
>>>     L1   V  L2
>>> V1--/\/\--+--/--0
>>>
>>> Then it is easy to see that in ideal circumstances the current through
>>> L1 should equal that of L2 and the I^2R heating would produce the
>>> results I described first.
>>>
>>> Instead of assuming the two inductors are on the same core we can assume
>>> they are on different cores. This will help us understand if differences
>>> in flux could cause such problems.
>>>
>>> You mentioned in another post that you were using AC to drive the coil?
>>> Did the effect happen with DC?
>>>
>>  Never tried it with dc.
>>
>>> Did you measure the voltage on the 1/2 turn?
>>>
>> No.
>>
>>> Was the core itself generating the heat or was it due to the 1/2 turn?
>>>
>>  It's been ten years, all I recall is the insulation on the last 1/2 turn
>> of the coil
>> got charred.
```

>>
>>> What was the total current through the coil?
>>>
>>
>> I think about a litle over 2 amps at 600khz.
>>
>>> Was it possible the coil could have been shorting out on another turn or
>>> the core?
>>
>> No
>>
>>> Was it really 1/2 a turn getting hot or "just the end of it"?
>>>
>> It was the 1/2 turn.
>>
>>> Was the coil tested by itself outside the circuit? If so did it exhibit
>>> the same phenomena?
>>>
>> Not by us, but someone else confirmed our observation.
>>
>>> What was the end of the coil that generated the heat connected to? Was
>>> the connection itself possible cause for the heat?
>>>
>> Naw.
>>
>>> Was the coil reversed in the circuit? If so did it exhibit the same
>>> problem with the ends switched?
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>> No
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>>> You mentioned that you tried 4 turns and 5 turns and the problem went
>>> away. Did it go away completely or partially? Was those two coils made
>>> exactly the same way and connected the same or were they in any way
>>> different besides just the turn difference?
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>> We shipped the product, as far as I know the didn't it back for
>> replacement smoke.
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>>> Was the coil one continuous piece? the 1/2 turn was not spliced on?
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>> One continuous piece.
>>
>>> Did you try a 5.5 and/or 6 turn coil?
>> No
>>
>>>
>>> Did the 1/2 turn end get hot very quick or did it take a while?
>>> Basically seconds or minutes?
>>>
>> Minutes.
>>
>>> Did you try to change the direction of the core relative to the coil? If
>>> so did it make any difference?

>>>
>> No
>>
>>> Is there any possible way the core itself could have been generating the
>>> heat at the 1/2 turn and the effect you experienced was just the core
>>> heating up that 1/2 first?
>>>
>> I don't think so.
>>
>>> Did you allow the inductor to run a long time? If so, What was the
>>> effect still? Was the whole coil hot or still just the 1/2 turn?
>>>
>> The whole think would have got hot, we were pushing limits.
>>
>>> Hopefully you can answer some of these questions. It sounds to me like
>>> you didn't do much troubleshooting so I expect most of them can't be
>>> answered so the true reason probably will not be known.
>>>
>> Probably, won't know the answer, once we learned the 1/2 turn overheated
>> we didn't do it again.
>> But it stuck as a curiosity. I had one of the overheated 4-1/2 turn
>> bobbins hanging on a cord over my
>> bench for years. It's been ten years but my old bench is still the same,
>> next time I stop in I'll see if it
>> the bobbins is still hanging.
>>
>
>
> I don't know what to say. Just not enough information. If your looking
> from some exotic possibility I don't think you'll find one.
>
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> same through out all points along the wire. That precisely means that the
> heat generated per unit length will be the same. Even if you have some
> crazy resonance or core flux/transformer effect going on, that current in
> the wire has to be the same through the whole wire(assuming no shorts).
>
> You can't have electrons bunch up on part of the wire and not on any other
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> from one part to another and on average it would heat it up uniformly.
>
> The reason is simple, We all know that for a power supply when one
> electron is supplied on the wire one electron leaves it so there really is
> no way to "bunch" it up.
>
> Now, if the wire is not uniform in size or resistance then the heating
> effect is not uniform. As smith mentioned about the joint connecting the
> coil. In this case it is possible that the joint could be heating up and
> it was being passed along to the 1/2 turn and it just happens that you
> didn't let it run long enough to heat up any more turns.
>
> The 1/2 turn was really a point at the joint and the heat just spread
> about about 1/2 turn.

>
> To me this is the most plausable case. I'm not sure if it's physically
> possible any other way that involves the coil itself generating generating
> the heat. (I gave a good reason about about electron flow being uniform in
> the wire)
>
> It may be possible using some type of standing wave or transformer like
> effect but even here I can't see it possible if the wire's restance per
> unit length is constant.
>

I'm sure it was not a bad connection.
I know all about heat caused by I^2 x R at connections.
In fact just yesterday I was checking for bad connections on my electric
gokart and I burned my finger! I found a loose connection between a
5/16" post and a ring terminal connected to a 6 gauge wire.
It was some oddity about the 1/2 turn in a potcore. I suspect the low
turns count is also important to the phenomena.
I thought I'd ask and see if anybody else ever had the problem.
Closest I got was when John Larkin said,
"I've seen it do strange stuff, too."
John, would you care to elaborate?
MikeK

From 4264520948252962152
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<i53m65$s2c$1@news.eternal-september.org>
<7f589$4c755cac$45013905$6863@KNOLOGY.NET> <i53nja$2qd$1@news.eternal-september.org> <ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET>
<i56cfb$7ce$1@news.eternal-september.org>
<72245$4c76d77e$18ec6dd7$28051@KNOLOGY.NET> <i57kn8$rfs$1@news.eternal-september.org> <9RJdo.24156$1v3.14192@newsfe20.iad>
Subject: Re: Heating in 4-1/2 turn inductor
Date: Fri, 27 Aug 2010 10:47:42 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 100827-0, 08/27/2010), Outbound message

X-Antivirus-Status: Clean
Message-ID: <3f58$4c77de3e$45013905$24472@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 56
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Xref: g2news1.google.com rec.radio.amateur.homebrew:3753
sci.electronics.design:183029

"Tim Williams" <tmoranwms@charter.net> wrote in message
news:9RJdo.24156$1v3.14192@newsfe20.iad...
> "Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
> news:i57kn8$rfs$1@news.eternal-september.org...
> <big fuckin snip>
>> The reason is that the current through the wire will almost be surely the
>> same through out all points along the wire.
>
> Well, no:
> http://en.wikipedia.org/wiki/Proximity_effect_%28electromagnetism%29
>
> the current density varies strongly, especially if the wire is thick
> (curiously, it was never stated what size wire is in question, nor what
> type; 600kHz suggests fine stranded litz!).
>

Again it has been 10 years, but I think the coil in question had something
like 4-24 gauge wires in parallel, maybe 28 gauge.

> Wire near the gap (which is usually placed in the center, right underneath
> the winding) experiences fringing fields, which dramatically increases
> losses.
>
Yes, we learned to space our wire away from the gap, after finding burned
wire and melted bobbins in the center where the gap was.

>> That precisely means that the heat generated per unit length will be the
>> same.
>
> Eddy currents in the center of the coil are much stronger than at the
> ends, so the center of a solenoid heats up much more strongly.
>
> The uncooled coil in this video demonstrates proximity effect:
> http://www.youtube.com/watch?v=nY66rBJvbpY
> See the connections are clean and coppery, but the coil has seen better
> days. You can't really tell if the center turns are hotter; they probably
> are by a little bit.
>
>
> Of course Kirchoff is harder to fool, obviously the total current flowing
> along the wire is the current flowing along the wire period. Unless
> there's a short, which supposedly was inspected as to have none.
>

>
> None of these are an "end" effect. The only possible explanation is a
> short, or else, "look harder". It's plainly obvious that the cause is NOT
> "an additional half turn". It is only a coincidence that this symptom
> showed up between turns 4 and 5.
>
> Tim
>

And some people don't believe in DDWFTTW! :-)
But thanks, MikeK

From -5141731724497801825
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NNTP-Posting-Date: Fri, 27 Aug 2010 10:51:24 -0500
From: John Larkin <jjlarkin@highNOTlandTHIStechnologyPART.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor
Date: Fri, 27 Aug 2010 08:51:20 -0700
Message-ID: <1mmf76td42ccev3pducdiu8og8f30kdtbk@4ax.com>
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET> <i53m65$s2c$1@news.eternal-september.org> <7f589$4c755cac$45013905$6863@KNOLOGY.NET> <i53nja$2qd$1@news.eternal-september.org> <ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET> <i56cfb$7ce$1@news.eternal-september.org> <72245$4c76d77e$18ec6dd7$28051@KNOLOGY.NET> <i57kn8$rfs$1@news.eternal-september.org> <51615$4c77d27b$45013905$21492@KNOLOGY.NET>
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X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3754

```
sci.electronics.design:183031

On Fri, 27 Aug 2010 09:57:31 -0500, "amdx" <amdx@knology.net> wrote:

>
>"Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
>news:i57kn8$rfs$1@news.eternal-september.org...
>>
>>
>> "amdx" <amdx@knology.net> wrote in message
>> news:72245$4c76d77e$18ec6dd7$28051@KNOLOGY.NET...
>>>
>>> "Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
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>>>>
>>>>
>>>> "amdx" <amdx@knology.net> wrote in message
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>>>>>
>>>>> "Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
>>>>> news:i53nja$2qd$1@news.eternal-september.org...
>>>>>>
>>>>>>
>>>>>> "amdx" <amdx@knology.net> wrote in message
>>>>>> news:7f589$4c755cac$45013905$6863@KNOLOGY.NET...
>>>>>>>
>>>>>>> "Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message
>>>>>>> news:i53m65$s2c$1@news.eternal-september.org...
>>>>>>>>
>>>>>>>>
>>>>>>>> "amdx" <amdx@knology.net> wrote in message
>>>>>>>> news:7baf9$4c754008$45013905$14209@KNOLOGY.NET...
>>>>>>>>> Several years ago while making inductors for tuning a class E
>>>>>>>>> amplifier we
>>>>>>>>> end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore,
>>>>>>>>> gapped I think,
>>>>>>>>> but it has been awhile. The inductor was driven hard but below
>>>>>>>>> saturation.
>>>>>>>>> The problem; the 1/2 turn got HOT.  Four turns or five turns were
>>>>>>>>> ok.
>>>>>>>>> My physicist friend had an EE verify the problem 2000 miles away.
>>>>>>>>>
>>>>>>>>> So, can anyone tell me why 1/2 turn would make such a difference in
>>>>>>>>> the heating?
>>>>>>>>>
>>>>>>>>>                                 Thanks, MikeK
>>>>>>>>>
>>>>>>>>
>>>>>>>>
>>>>>>>> Resonance? (I assume by 1/2 you mean the 4.5 inductor?)
>>>>>>>  Yes, a 4 and 1/2 turn inductor had the 1/2 turn overheat.
>>>>>>>
>>>>>>
```

```
>>>>>> huh?
>>>>>>
>>>>>> The half turn and the other turns were ok? This is impossible!?!?!
>>>>>> One has the same current through the whole coil and if the wire was
>>>>>> uniform then it should heat heally well. Not only that copper is a
>>>>>> good heat conductor so if the 1/2 turn was heating up then he heat
>>>>>> should spread pretty quickly.
>>>>>>
>>>>>> This assumes everything else is uniform along the coil. Something has
>>>>>> to be going on that your not telling us? Ideally the heat should be
>>>>>> uniformly distributed along the coil.
>>>>>>
>>>>>> By "HOT" I assume you mean much much hotter than the other coils?
>>>>>>
>>>>>> Heat is generated by the current, is it not? and the current should be
>>>>>> uniform throughout the wire? The resistance of the wire itself should
>>>>>> also be uniform. This suggests that the heat dissipated per unit
>>>>>> length is independent of position.
>>>>>>
>>>>>> Were both ends hot? If not then something else is going on. Because
>>>>>> you are saying the .5 end of a 4.5 coil got HOT. Yet which end? the
>>>>>> 4.5 coil has two .5 ends and should in theory be symmetric and hence
>>>>>> both get equally HOT. If they wern't then something is aloof.
>>>>>>
>>>>>  I got some confirmation from my collaborator,  The 1/2 turn as were
>>>>> describing it
>>>>> was the LAST 1/2 turn wound on the bobbin.
>>>>>                                          MikeK
>>>>
>>>> What you describing is,
>>>>
>>>>     L1   V  L2
>>>> V1--/\/\--+--/--0
>>>>
>>>> on the same core?
>>>>
>>>> L2, the 1/2 turn part of the coil is behaving wildly different than
>>>> expect?
>>>>
>>>> After all, ideally L2 has resistance in direct proportion to the total
>>>> winding which in this case 0.5*/4.5 ~ 11% of the total resistance of the
>>>> coil.
>>>>
>>>> In a single coil the power dissipation of the 1/2 turn would also be ~
>>>> 11% and this is quite easy to see. You are saying that it is much more
>>>> than this as if the ratio's were turned up side down. Something like the
>>>> 1/2 part dissipating 90% and the 4 turns part dissipating 10%?
>>>>
>>>> if you agree with the layout of
>>>>
>>>>     L1   V  L2
>>>> V1--/\/\--+--/--0
>>>>
```

>>>> Then it is easy to see that in ideal circumstances the current through
>>>> L1 should equal that of L2 and the I^2R heating would produce the
>>>> results I described first.
>>>>
>>>> Instead of assuming the two inductors are on the same core we can assume
>>>> they are on different cores. This will help us understand if differences
>>>> in flux could cause such problems.
>>>>
>>>> You mentioned in another post that you were using AC to drive the coil?
>>>> Did the effect happen with DC?
>>>>
>>> Never tried it with dc.
>>>
>>>> Did you measure the voltage on the 1/2 turn?
>>>>
>>> No.
>>>
>>>> Was the core itself generating the heat or was it due to the 1/2 turn?
>>>>
>>> It's been ten years, all I recall is the insulation on the last 1/2 turn
>>> of the coil
>>> got charred.
>>>
>>>> What was the total current through the coil?
>>>>
>>>
>>> I think about a litle over 2 amps at 600khz.
>>>
>>>> Was it possible the coil could have been shorting out on another turn or
>>>> the core?
>>>
>>> No
>>>
>>>> Was it really 1/2 a turn getting hot or "just the end of it"?
>>>>
>>> It was the 1/2 turn.
>>>
>>>> Was the coil tested by itself outside the circuit? If so did it exhibit
>>>> the same phenomena?
>>>>
>>> Not by us, but someone else confirmed our observation.
>>>
>>>> What was the end of the coil that generated the heat connected to? Was
>>>> the connection itself possible cause for the heat?
>>>>
>>> Naw.
>>>
>>>> Was the coil reversed in the circuit? If so did it exhibit the same
>>>> problem with the ends switched?
>>>>
>>> No
>>>
>>>> You mentioned that you tried 4 turns and 5 turns and the problem went

>>>> away. Did it go away completely or partially? Was those two coils made
>>>> exactly the same way and connected the same or were they in any way
>>>> different besides just the turn difference?
>>>>
>>> We shipped the product, as far as I know the didn't it back for
>>> replacement smoke.
>>>
>>>> Was the coil one continuous piece? the 1/2 turn was not spliced on?
>>>>
>>> One continuous piece.
>>>
>>>> Did you try a 5.5 and/or 6 turn coil?
>>> No
>>>
>>>>
>>>> Did the 1/2 turn end get hot very quick or did it take a while?
>>>> Basically seconds or minutes?
>>>>
>>> Minutes.
>>>
>>>> Did you try to change the direction of the core relative to the coil? If
>>>> so did it make any difference?
>>>>
>>> No
>>>
>>>> Is there any possible way the core itself could have been generating the
>>>> heat at the 1/2 turn and the effect you experienced was just the core
>>>> heating up that 1/2 first?
>>>>
>>> I don't think so.
>>>
>>>> Did you allow the inductor to run a long time? If so, What was the
>>>> effect still? Was the whole coil hot or still just the 1/2 turn?
>>>>
>>> The whole think would have got hot, we were pushing limits.
>>>
>>>> Hopefully you can answer some of these questions. It sounds to me like
>>>> you didn't do much troubleshooting so I expect most of them can't be
>>>> answered so the true reason probably will not be known.
>>>>
>>> Probably, won't know the answer, once we learned the 1/2 turn overheated
>>> we didn't do it again.
>>> But it stuck as a curiosity. I had one of the overheated 4-1/2 turn
>>> bobbins hanging on a cord over my
>>> bench for years. It's been ten years but my old bench is still the same,
>>> next time I stop in I'll see if it
>>> the bobbins is still hanging.
>>>
>>
>>
>> I don't know what to say. Just not enough information. If your looking
>> from some exotic possibility I don't think you'll find one.
>>

>> The reason is that the current through the wire will almost be surely the
>> same through out all points along the wire. That precisely means that the
>> heat generated per unit length will be the same. Even if you have some
>> crazy resonance or core flux/transformer effect going on, that current in
>> the wire has to be the same through the whole wire(assuming no shorts).
>>
>> You can't have electrons bunch up on part of the wire and not on any other
>> part. Even if you could, that bunch would have to flow through the wire
>> from one part to another and on average it would heat it up uniformly.
>>
>> The reason is simple, We all know that for a power supply when one
>> electron is supplied on the wire one electron leaves it so there really is
>> no way to "bunch" it up.
>>
>> Now, if the wire is not uniform in size or resistance then the heating
>> effect is not uniform. As smith mentioned about the joint connecting the
>> coil. In this case it is possible that the joint could be heating up and
>> it was being passed along to the 1/2 turn and it just happens that you
>> didn't let it run long enough to heat up any more turns.
>>
>> The 1/2 turn was really a point at the joint and the heat just spread
>> about about 1/2 turn.
>>
>> To me this is the most plausable case. I'm not sure if it's physically
>> possible any other way that involves the coil itself generating generating
>> the heat. (I gave a good reason about about electron flow being uniform in
>> the wire)
>>
>> It may be possible using some type of standing wave or transformer like
>> effect but even here I can't see it possible if the wire's restance per
>> unit length is constant.
>>
>   I'm sure it was not a bad connection.
>I know all about heat caused by I^2 x R at connections.
>In fact just yesterday I was checking for bad connections on my electric
>gokart and I burned my finger! I found a loose connection between a
>5/16" post and a ring terminal connected to a 6 gauge wire.
> It was some oddity about the 1/2 turn in a potcore. I suspect the low
>turns count is also important to the phenomena.
> I thought I'd ask and see if anybody else ever had the problem.
>Closest I got was when John Larkin said,
>"I've seen it do strange stuff, too."
> John, would you care to elaborate?
>   MikeK
>

One of my engineers, a real magnetics guy who used to work for Signal
Transformer, designed a push-pull forward dc/dc converter using a pot
core. This was in the power supply of a laser controller [1] where the
customer, for reasons never rationalized, wanted our +24 power to be
isolated. One center-tapped winding included a half turn on each side,
and efficiency was terrible. Going to full turns, and wasting a bit
more power in a downstream linear regulator, worked much better.

Neither of us understood why.

John

[1] The controller is still in production. It manages the firing of a series of deep-UV MOPA lasers that expose some fraction of the fine-pitch ICs made in the world.

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X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
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From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET> <bd0c9179-dd76-4a5c-8d17-5ad5f824c139@s9g2000yqd.googlegroups.com>
Subject: Re: Heating in 4-1/2 turn inductor
Date: Fri, 27 Aug 2010 10:57:30 -0500
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X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
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X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 100827-0, 08/27/2010), Outbound message
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Lines: 46
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Xref: g2news1.google.com rec.radio.amateur.homebrew:3755 sci.electronics.design:183032

"raypsi" <rborowiak@gmail.com> wrote in message
news:bd0c9179-dd76-4a5c-8d17-5ad5f824c139@s9g2000yqd.googlegroups.com...
Hey OM:

>First how many newsgroups do you have this thread cross posted on?

How many do you see it on?

>Second: A 1/2 turn is equal to 1 turn in a pot core so 4 and 1/2 turns
>is the same as 5 turns.

I don't think so. If I put 4-1/2 turns on a potcore and measure inductance,
then unwind the 1/2 turn, do you think the inductance will measure the same?

>Lastly OM: I think you are looking at a classic case of proximity
>effect.

It may be, but I can't explain to myself how that would happen. I do think
it has
something to do with the flux through the coil though.
                         Thanks, MikeK

>73 OM
>de n8zu

On Aug 25, 4:09 pm, "amdx" <a...@knology.net> wrote:
> Several years ago while making inductors for tuning a class E amplifier we
> end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore, gapped
> I
> think,
> but it has been awhile. The inductor was driven hard but below saturation.
> The problem; the 1/2 turn got HOT. Four turns or five turns were ok.
> My physicist friend had an EE verify the problem 2000 miles away.
>
> So, can anyone tell me why 1/2 turn would make such a difference in the
> heating?
>
> Thanks, MikeK

From -7523903689744195663
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NNTP-Posting-Date: Fri, 27 Aug 2010 12:08:09 -0500
Date: Fri, 27 Aug 2010 12:08:24 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.8) Gecko/
20100802 Thunderbird/3.1.2

MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<i53m65$s2c$1@news.eternal-september.org>
<7f589$4c755cac$45013905$6863@KNOLOGY.NET> <i53nja$2qd$1@news.eternal-september.org> <ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET>
<i56cfb$7ce$1@news.eternal-september.org>
<72245$4c76d77e$18ec6dd7$28051@KNOLOGY.NET> <i57kn8$rfs$1@news.eternal-september.org>
In-Reply-To: <i57kn8$rfs$1@news.eternal-september.org>
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Message-ID: <SrCdnQhfn91kberRnZ2dnUVZ5qGdnZ2d@giganews.com>
Lines: 12
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X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3756 sci.electronics.design:183050

On 8/27/2010 1:07 AM, Jeff Johnson wrote:

> ...Even if you
> have some crazy resonance or core flux/transformer effect going on, that
> current in the wire has to be the same through the whole wire(assuming
> no shorts).

Hmmm...it is easy to demonstrate two coils in series, loaded with two caps to provide two (different Fx) resonant paths - the coil in the part that resonates carries way more current than the path that is not resonating...

Brian w

From 6651199861815030139
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
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From: "Tim Williams" <tmoranwms@charter.net>

Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<i53m65$s2c$1@news.eternal-september.org>
<7f589$4c755cac$45013905$6863@KNOLOGY.NET> <i53nja$2qd$1@news.eternal-september.org> <ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET>
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<1mmf76td42ccev3pducdiu8og8f30kdtbk@4ax.com>
Subject: Re: Heating in 4-1/2 turn inductor
Lines: 26
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X-RFC2646: Format=Flowed; Original
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Message-ID: <_vSdo.1864$rC7.1155@newsfe10.iad>
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NNTP-Posting-Date: Fri, 27 Aug 2010 17:23:06 UTC
Date: Fri, 27 Aug 2010 12:23:27 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:3757
sci.electronics.design:183054

"John Larkin" <jjlarkin@highNOTlandTHIStechnologyPART.com> wrote in
message news:1mmf76td42ccev3pducdiu8og8f30kdtbk@4ax.com...
<big fucking snip>
> One of my engineers, a real magnetics guy who used to work for Signal
> Transformer, designed a push-pull forward dc/dc converter using a pot
> core. This was in the power supply of a laser controller [1] where the
> customer, for reasons never rationalized, wanted our +24 power to be
> isolated. One center-tapped winding included a half turn on each side,
> and efficiency was terrible. Going to full turns, and wasting a bit
> more power in a downstream linear regulator, worked much better.
> Neither of us understood why.

Well that's obvious, it's acting like two transformers. Huge LL between halves. Imagine the full path of each turn, it's effectively a full turn around one outer limb or the other, but not both.

Whether or not you curve it tightly around the center limb doesn't matter, intensions are lost on inanimate objects. :)

Tim

--
Deep Friar: a very philosophical monk.
Website: http://webpages.charter.net/dawill/tmoranwms

From -3982660885871781031
X-Google-Thread: fc2a5,9a59abfd0a828816
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Path: g2news1.google.com!postnews.google.com!s9g2000yqd.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I am looking for a project of homemade AM superhet
Date: Fri, 27 Aug 2010 10:29:51 -0700 (PDT)
Organization: http://groups.google.com
Lines: 21
Message-ID: <add69003-338f-4282-b6d3-ca529769001f@s9g2000yqd.googlegroups.com>
References: <4c6fe1b4$0$22803$65785112@news.neostrada.pl>
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 Gecko/20100723 Ubuntu/10.04 (lucid) Firefox/3.6.8,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3758

Hey OM:

I am looking for the same thing but with 1 volt tubes I'd like to duplicate the old Zenith trans oceanic radio. Now there was a radio that is proven.
Not a single solid state device if I recall, great if there is ever a EMP that takes out all the solid state radios.
For some reason there are plenty of 1 volt tubes out there even though they haven't been made for sum 40 years.

But I digress. Get a Howard Sams TR manual, there will get you the schematic. The real old radio's were hard wired no PCB. I know you can find a schematic that is all transistors, bipolar though, no FETS in those days, and I know they are still making germanium transistors which are great for front ends.

73 OM

de n8zu

```
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From: "Jeff Johnson" <Jeff_Johnson@Hotmail.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor
Date: Fri, 27 Aug 2010 12:31:50 -0500
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X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:3759
sci.electronics.design:183062
```

> I'm sure it was not a bad connection.

> I know all about heat caused by I^2 x R at connections.
> In fact just yesterday I was checking for bad connections on my electric
> gokart and I burned my finger! I found a loose connection between a
> 5/16" post and a ring terminal connected to a 6 gauge wire.
> It was some oddity about the 1/2 turn in a potcore. I suspect the low
> turns count is also important to the phenomena.

And I think these is exactly why you are pursing it. You believe it must be due to some fanciful effect because of the "1/2" turn as if 0.5 was more special than 0.73524 or 1.0.

You have the mindset to those people that think 3.141592... is special. This causes you to overlook the obvious. First, pi in another base is not 3.1415.... but in any case it must have been some number. In some alternate universe we could imagine it being 5.43524. In is only special in the sense that we make it special because it seems different than most other decimals. In fact though there are a ton of "special numbers".

The theory of ideal inductors does not give any reason why a 1/2 turn should at all be important. Tim mentioned the promixity effect which would produce heating throughout the windings and more so for inner windings so it is not the correct effect here.

Most other phenomena that stand any chance of creating the effect would do it symmetrical. Why? Because both ends have no special preference for the heat. This should be completely obvious.

The only chance is if you wrapped the windings in such a strange and crazy way and a totally screwed up core as to make a retard jealous of your work.

We think of other possibilities that would work in a non-symmetric way but they just don't seem to gel with physics. No one can say for sure since you obviously don't have any good investigative information to provide about it.

Almost always things that seem phenomenal are due to simple mistakes. If you are really serious about it then I would suggest you attempt to reproduce the result then do a bit more investigation. Until then you might want to drop it because we don't need another cold fusion story circulating around. (I'm being facetious)

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From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
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Lines: 55
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Xref: g2news1.google.com rec.radio.amateur.homebrew:3760 sci.electronics.design:183068

"Jeff Johnson" <Jeff_Johnson@Hotmail.com> wrote in message news:i58sq5$i01$1@news.eternal-september.org...
>
>
>>   I'm sure it was not a bad connection.
>> I know all about heat caused by I^2 x R at connections.
>> In fact just yesterday I was checking for bad connections on my electric
>> gokart and I burned my finger! I found a loose connection between a
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>> It was some oddity about the 1/2 turn in a potcore. I suspect the low
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>
> And I think these is exactly why you are pursing it. You believe it must
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>
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>
>
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>
> Most other phenomena that stand any chance of creating the effect would do
> it symmetrical. Why? Because both ends have no special preference for the
> heat. This should be completely obvious.
>
> The only chance is if you wrapped the windings in such a strange and crazy
> way and a totally screwed up core as to make a retard jealous of your
> work.
>
> We think of other possibilities that would work in a non-symmetric way but
> they just don't seem to gel with physics. No one can say for sure since
> you obviously don't have any good investigative information to provide
> about it.
>
> Almost always things that seem phenomenal are due to simple mistakes. If
> you are really serious about it then I would suggest you attempt to
> reproduce the result then do a bit more investigation. Until then you
> might want to drop it because we don't need another cold fusion story
> circulating around.

OH, you think I might have some overunity thing going on?
Let me get my magnet motor out!

> (I'm being facetious)

Me to.
MikeK

From -1395682301150112877
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From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
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NNTP-Posting-Date: Fri, 27 Aug 2010 22:22:24 EEST
Organization: Elisa Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:3762

On Fri, 27 Aug 2010 10:29:51 -0700 (PDT), raypsi <rborowiak@gmail.com>
wrote:

>I am looking for the same thing but with 1 volt tubes I'd like to
>duplicate the old Zenith trans oceanic radio. Now there was a radio
>that is proven.

Heptodes like 1R5 or DK91 were used in battery powered superhets, so
googling for these might bring up something interesting.

Paul OH3LWR

From -3250843518690085899
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From: whit3rd <whit3rd@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor
Date: Fri, 27 Aug 2010 13:07:40 -0700 (PDT)
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Xref: g2news1.google.com rec.radio.amateur.homebrew:3763
sci.electronics.design:183102

On Aug 27, 10:31=A0am, "Jeff Johnson" <Jeff_John...@Hotmail.com> wrote:

> The theory of ideal inductors does not give any reason why a 1/2 turn sho=
uld
> at all be important.

Oh, yes, it DOES give a reason.  A pot core (or E cores) has a pair of
return
flux arms flanking the central element, and a '1/2 turn' winding
imbalances
those return fluxes.

That means the 3-d flux inside the core is very different in the
two cases, and if one return arm saturates, that flux distribution
alters
considerably during the cycle.  That causes (1) the material to heat
due to remagnetization in an asymmetric way, (2) the forces of the
pole pieces to modulate as the field builds.  The first effect (caused
by material hysteresis) might have been expected.  The second
effect, though, will cause ultrasonic excitation of the core, maybe
creating cracks by mechanical stress.


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From: "Jeff Johnson" <Jeff_Johnson@Hotmail.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
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<i58sq5$i01$1@news.eternal-september.org> <69863d94-450f-49b5-
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Xref: g2news1.google.com rec.radio.amateur.homebrew:3764
sci.electronics.design:183107
```

"whit3rd" <whit3rd@gmail.com> wrote in message
news:69863d94-450f-49b5-bdc0-4428e4f21c20@h19g2000yqb.googlegroups.com...

> On Aug 27, 10:31 am, "Jeff Johnson" <Jeff_John...@Hotmail.com> wrote:
>
>> The theory of ideal inductors does not give any reason why a 1/2 turn
>> should
>> at all be important.
>
> Oh, yes, it DOES give a reason. A pot core (or E cores) has a pair of
> return
> flux arms flanking the central element, and a '1/2 turn' winding
> imbalances
> those return fluxes.
>

In the ideal case the fringe effects are usually ignored. Atleast every book
I've read about inductance supposes the fringe effects can be ignored.

Remember, we are talking about the inductive effects on heating those ends and not the inductance itself.

> That means the 3-d flux inside the core is very different in the
> two cases, and if one return arm saturates, that flux distribution
> alters
> considerably during the cycle. That causes (1) the material to heat
> due to remagnetization in an asymmetric way, (2) the forces of the
> pole pieces to modulate as the field builds. The first effect (caused
> by material hysteresis) might have been expected. The second
> effect, though, will cause ultrasonic excitation of the core, maybe
> creating cracks by mechanical stress.

In all causes if the the ends are relatively symmetric then both should heat up equally. Also the fringe effects tend to reduce the heat on the ends and not increase it. Also all the effects you describe should heat the central windings more than the outside and have little to do with the end turn amount. Again, In all cases it would be symmetric unless the core or windings themselfs were wound in some weird way. 99.99999% of all inductors are wound to be symmetric.

So if there is some effect that is due to the reasons you describe then it must be because they let a 2 year old create the winding.

Now, you'll have to excuse me if I make some assumptions about what is going on. When he says inductor I think of basically something that looks like an inductor and acts like one. So if he did something non-standard then he should include that information.

I cannot totally exclude some physical reason why such a thing could happen because I don't know all the possibities. Given the assumption that what they created was very much inductor like no one has presented any reason why only one side would heat up and the rest of the coil would be fine that is due to the coil/core.

The most likely effect is that the connection on that one end was bad or was shorting out. This is the best guess given the little amount of information that was provided.

Since he said the same result was produced independently then this possibly suggests something else but the same mistake could have been made twice.

It would be quite easy to create a partially laminated core that was not laminated near one end. The core would heat up due to eddy currents which would heat up the 1/2 turn first. Who the hell would use such a core? Such behavior is to be expected when someone doesn't know what they are doing.

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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Hy-Gain BN86 balun for sale - new price
Date: Fri, 27 Aug 2010 15:43:18 -0500
Organization: A noiseless patient Spider
Lines: 14
Message-ID: <i59810$hlj$4@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
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Injection-Info: mx01.eternal-september.org; posting-host="UIT+niVQSv8LIdTphuwBlA";
     logging-data="18099"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+zdrFM4zzhZkr4GW3MU4bG"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.8) Gecko/
20050511 Mnenhy/0.7.2.0
X-Accept-Language: en-us
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 100827-1, 08/27/2010), Outbound message
Cancel-Lock: sha1:2PLlYNEHDj4EihkBYyt6Y5nYYrM=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3765

I have a Hy-Gain BN-86 3-30 MHz 1500W 50-ohm balun for sale.  I'm
asking $40 plus postage for it.  The instruction manual can be viewed at:

http://www.thiecom.de/pdf/BN-86.pdf

It can be viewed at:

http://home.comcast.net/~hsknoll/site/?/photos/
&PHPSESSID=29ec62ea0bf1fe4d25e318b011cf0bbf

or

http://tinyurl.com/yktwxpz   click on photo to enlarge it.

Henry   WA0GOZ


From 278408265135877342
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
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X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
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X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!a36g2000yqc.googlegroups.com!not-for-
mail
From: whit3rd <whit3rd@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor
Date: Fri, 27 Aug 2010 14:23:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 48
Message-ID: <610381d0-c522-4bbf-9bb4-0a3b148fa4b3@a36g2000yqc.googlegroups.com>
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<i53m65$s2c$1@news.eternal-september.org>
 <7f589$4c755cac$45013905$6863@KNOLOGY.NET> <i53nja$2qd$1@news.eternal-
september.org>
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september.org>
 <72245$4c76d77e$18ec6dd7$28051@KNOLOGY.NET> <i57kn8$rfs$1@news.eternal-
september.org>
 <51615$4c77d27b$45013905$21492@KNOLOGY.NET> <i58sq5$i01$1@news.eternal-
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NNTP-Posting-Date: Fri, 27 Aug 2010 21:23:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a36g2000yqc.googlegroups.com; posting-host=66.238.104.56; posting-
account=vKQm_QoAAADOaDCYsqOFDAW8NJ8sFHoE
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; PPC Mac OS X 10_5_8; en-us)
 AppleWebKit/533.16 (KHTML, like Gecko) Version/5.0 Safari/533.16,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3766
sci.electronics.design:183118

On Aug 27, 1:30=A0pm, "Jeff Johnson" <Jeff_John...@Hotmail.com> wrote:
> "whit3rd" <whit...@gmail.com> wrote in message
>
> news:69863d94-450f-49b5-bdc0-4428e4f21c20@h19g2000yqb.googlegroups.com...
>
> > On Aug 27, 10:31 am, "Jeff Johnson" <Jeff_John...@Hotmail.com> wrote:
>
> >> The theory of ideal inductors does not give any reason why a 1/2 turn
> >> should
> >> at all be important.
>
> > Oh, yes, it DOES give a reason. =A0A pot core (or E cores) has a pair o=
f
> > return
> > flux arms flanking the central element, and a '1/2 turn' winding
```

> > imbalances
> > those return fluxes.
>
> In the ideal case the fringe effects are usually ignored.

   What 'fringe effects'?   This is about the flux contained in the
   magnetic arms of the core, not outside somewhere

> > That means the 3-d flux inside the core is very different in the
> > two cases, and if one return arm saturates, that flux distribution
> > alters
> > considerably during the cycle. =A0That causes (1) the material to heat
> > due to remagnetization in an asymmetric way, (2) the forces of the
> > pole pieces to modulate as the field builds. =A0The first effect (cause=
d
> > by material hysteresis) might have been expected. =A0The second
> > effect, though, will cause ultrasonic excitation of the core, maybe
> > creating cracks by mechanical stress.

> ...all the effects you describe should heat the central
> windings more than the outside and have little to do with the end turn
> amount.

Oh, this has nothing to do with ohmic heating in the windings. It
concerns
the B-H curve, which (for a hysteretic material) loops around some
area.
At 600 kHz, the area, multiplied by 6e6, is the power lost when the
magnetic material is forced to traverse that loop.
If part of the material saturates, its loop is of greater area than
the rest of
the material.   A core that should handle 2A without overheating, then
would overheat.

From -1934850169301352958
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
<i53m65$s2c$1@news.eternal-september.org>
<7f589$4c755cac$45013905$6863@KNOLOGY.NET> <i53nja$2qd$1@news.eternal-september.org> <ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET>
<i56cfb$7ce$1@news.eternal-september.org>
<72245$4c76d77e$18ec6dd7$28051@KNOLOGY.NET> <i57kn8$rfs$1@news.eternal-

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september.org> <51615$4c77d27b$45013905$21492@KNOLOGY.NET>
<i58sq5$i01$1@news.eternal-september.org> <69863d94-450f-49b5-
bdc0-4428e4f21c20@h19g2000yqb.googlegroups.com>
Subject: Re: Heating in 4-1/2 turn inductor
Date: Fri, 27 Aug 2010 17:17:24 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-Antivirus: avast! (VPS 100827-1, 08/27/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <805d3$4c783996$45013905$15882@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 38
X-Trace: 805d34c783996e0a49ca015882
Xref: g2news1.google.com rec.radio.amateur.homebrew:3767
sci.electronics.design:183130
```

"whit3rd" <whit3rd@gmail.com> wrote in message
news:69863d94-450f-49b5-bdc0-4428e4f21c20@h19g2000yqb.googlegroups.com...
On Aug 27, 10:31 am, "Jeff Johnson" <Jeff_John...@Hotmail.com> wrote:

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\>Oh, yes, it DOES give a reason. A pot core (or E cores) has a pair of
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\>imbalances
\>those return fluxes.

\>That means the 3-d flux inside the core is very different in the
\>two cases, and if one return arm saturates, that flux distribution
\>alters
\>considerably during the cycle. That causes (1) the material to heat
\>due to remagnetization in an asymmetric way, (2) the forces of the
\>pole pieces to modulate as the field builds. The first effect (caused
\>by material hysteresis) might have been expected. The second
\>effect, though, will cause ultrasonic excitation of the core, maybe
\>creating cracks by mechanical stress.

Some may find interest in this.
A turn around an outside leg of an E-core is called a half-turn because it encloses only one-half of the cross-sectional area of a turn around the center leg. It is well known that a half-turn in a secondary winding of a power transformer greatly increases the leakage inductance between windings, thus causing an adverse effect on cross-regulation. However, the increased leakage inductance of a half-turn can be very beneficial in tapped inductors for boost circuits and in coupled output chokes. This paper explains some of

these little-known applications of a half-turn. The theory and formulae for prediction of leakage inductance added by such a half-turn are presented
http://ieeexplore.ieee.org/Xplore/login.jsp?url=http%3A%2F%2Fieeexplore.ieee.org%2Fiel4%2F6059%2F16203%2F00750522.pdf%3Farnumber%3D750522&authDecision=-203

From 619982684953490799
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Path: g2news1.google.com!news3.google.com!feeder.news-service.com!feeder.news-service.com!85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: M0WYM <nospammers@radiowymsey.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I am looking for a project of homemade AM superhet
Date: Sat, 28 Aug 2010 01:01:04 +0100
Organization: A noiseless patient Spider
Lines: 30
Message-ID: <i59jk2$bmc$1@news.eternal-september.org>
References: <4c6fe1b4$0$22803$65785112@news.neostrada.pl>
<iOudnT-5TtDf_e3RnZ2dnUVZ_r2dnZ2d@giganews.com>
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posting-account="U2FsdGVkX1/P39lx4/nX8AnlS5DNaoIR"
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.1.11) Gecko/20100713 Thunderbird/3.0.6
In-Reply-To: <9o3g76hqjr2vl9ng4ghr5tm2e9fj3ljsr2@4ax.com>
Cancel-Lock: sha1:Zm2GzsLlyS7Etk6MO7G4fh90Edk=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3768

On 27/08/10 20:22, Paul Keinanen wrote:
> On Fri, 27 Aug 2010 10:29:51 -0700 (PDT), raypsi<rborowiak@gmail.com>
> wrote:
>
>> I am looking for the same thing but with 1 volt tubes I'd like to
>> duplicate the old Zenith trans oceanic radio. Now there was a radio
>> that is proven.
>
> Heptodes like 1R5 or DK91 were used in battery powered superhets, so

> googling for these might bring up something interesting.
>
> Paul OH3LWR
>

They are around, I sold a number of those battery radio valves recently.
The other thing to look out for are the miniature valves that were used
in deaf aids.

Charlie.

--
M0WYM
www.radiowymsey.org

Sales @ radiowymsey
http://shop.ebay.co.uk/gnome7763/m.html?

From 5262267794058694940
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 28 Aug 2010 22:22:53 -0500
Date: Sat, 28 Aug 2010 20:22:41 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor
Message-ID: <rL-2808102022410001@10.0.1.7>
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3770
sci.electronics.design:183294

In article <7baf9$4c754008$45013905$14209@KNOLOGY.NET>, "amdx"
<amdx@knology.net> wrote:

>Several years ago while making inductors for tuning a class E amplifier we
>end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore, gapped I
>think,
>but it has been awhile. The inductor was driven hard but below saturation.
>The problem; the 1/2 turn got HOT. Four turns or five turns were ok.
> My physicist friend had an EE verify the problem 2000 miles away.
>
>So, can anyone tell me why 1/2 turn would make such a difference in the
>heating?
>
>   Thanks, MikeK

** Is it a 5-turn inductor with 1/2 turn shorted?

--
Richard L. Measures. AG6K, 805-386-3734, www.somis.org

```
From -2920603726089395512
X-Google-Thread: fc2a5,e290d8226d5693ff,start
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X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y11g2000yqm.googlegroups.com!not-for-
mail
From: fitz <zeusrdx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: The reason we have Gravity?
Date: Sat, 28 Aug 2010 21:06:23 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <680014ee-46b5-4725-84d1-f956b7c3b122@y11g2000yqm.googlegroups.com>
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X-Trace: posting.google.com 1283054783 30616 127.0.0.1 (29 Aug 2010 04:06:23 GMT)
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NNTP-Posting-Date: Sun, 29 Aug 2010 04:06:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y11g2000yqm.googlegroups.com; posting-host=64.53.76.48; posting-
account=A451vgoAAAByc Jv5ugpkfX8QG96-xuRZ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0;
 Trident/4.0; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
 3.0.30618; yie8),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3771
```

The reason we have Gravity?

A correct theory of gravity will show us these four (4) things:

1. It will show us why gravity also acts like acceleration (principle of equvalence).
2. It will show us the actual cause of gravity.
3. It will show us why gravitational mass and inertial mass are identical.
4. It will show us the speed of gravitational attraction.

Newton said gravity was acting at a much faster speed than Einstein.
Which one of them was right?

http://www.amperefitz.com/why.we.have.gravity.htm

Click that link above if you like Science!

```
From -2814617089517791540
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-xfer.nntp.sonic.net!
posts.news.sonic.net!nnrp0.nntp.sonic.net!not-for-mail
From: Kevin McMurtrie <mcmurtrie@pixelmemory.us>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
MIME-Version: 1.0
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Content-Transfer-Encoding: 7bit
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Date: Sat, 28 Aug 2010 23:05:36 -0700
Lines: 25
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X-Complaints-To: abuse@sonic.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:3772
sci.electronics.design:183310
```

In article <7baf9$4c754008$45013905$14209@KNOLOGY.NET>,
 "amdx" <amdx@knology.net> wrote:

> Several years ago while making inductors for tuning a class E amplifier we
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> but it has been awhile. The inductor was driven hard but below saturation.
> The problem; the 1/2 turn got HOT. Four turns or five turns were ok.
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> heating?
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Only two ideas from me, and they seem weak.

A half turn means the current goes in and out on separate sides. That makes one turn of inductance perpendicular to the rest of the turns that would skew the magnetic field.

If it is a powdered iron core, the volts per turn could be high enough that it conducts electricity.
--
I won't see Google Groups replies because I must filter them as spam

From -8080502184574045540
X-Google-Thread: fc2a5,e290d8226d5693ff
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 29 Aug 2010 06:57:09 -0500
Date: Sun, 29 Aug 2010 11:57:09 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.8) Gecko/20100802 Thunderbird/3.1.2
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The reason we have Gravity?
References: <680014ee-46b5-4725-84d1-f956b7c3b122@y11g2000yqm.googlegroups.com>
In-Reply-To: <680014ee-46b5-4725-84d1-f956b7c3b122@y11g2000yqm.googlegroups.com>
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Content-Transfer-Encoding: 7bit
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Lines: 6
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-V2TTBm+WTciOZQe7MQgyIE8Quc/8o/VYt/it3CV/SLA6aM3UipTrbbmkp/PmTKlmYxctNUzSC2JJvgE!Cdd5XJ1dtATzbXqx1ygjlS6tV1sC5NWWK6oC9ZXV4x2841meWs6uHYWj5cXzSLNlSW3ChZ951Eut!UJdHIzweCQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers

```
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3773
```

On 8-29-2010 04:06, fitz wrote:

> The reason we have Gravity?

I thought we had gravity to keep chip components on the PC board until
we got them soldered down....

```
From -3021974776608994313
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
newshosting.com!news.glorb.com!news.astraweb.com!border2.newsrouter.astraweb.com!
not-for-mail
From: "JosephKK"<quiettechblue@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Heating in 4-1/2 turn inductor
Date: Sun, 29 Aug 2010 06:45:20 -0700
Message-ID: <4sok76hb6040167vgd69cr6n7hbe6bdogt@4ax.com>
References: <i53nja$2qd$1@news.eternal-september.org>
<ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET> <i56cfb$7ce$1@news.eternal-
september.org> <72245$4c76d77e$18ec6dd7$28051@KNOLOGY.NET>
<i57kn8$rfs$1@news.eternal-september.org>
<51615$4c77d27b$45013905$21492@KNOLOGY.NET> <i58sq5$i01$1@news.eternal-
september.org> <69863d94-450f-49b5-bdc0-4428e4f21c20@h19g2000yqb.googlegroups.com>
<i5978q$kj2$1@news.eternal-september.org> <610381d0-
c522-4bbf-9bb4-0a3b148fa4b3@a36g2000yqc.googlegroups.com>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 55
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 531d8017.news.astraweb.com
X-Trace: DXC=]PVfQ=nXPYVW]I=Ra]NaiPL?
0kYOcDh@ZIVNR_g=:2D]fb\ToW6`VdZ7@j0BLiaDa^K_NR5\[niQYEW91kjZHG\S
Xref: g2news1.google.com rec.radio.amateur.homebrew:3774
sci.electronics.design:183326
```

On Fri, 27 Aug 2010 14:23:13 -0700 (PDT), whit3rd <whit3rd@gmail.com>
wrote:

>On Aug 27, 1:30�pm, "Jeff Johnson" <Jeff_John...@Hotmail.com> wrote:

>> "whit3rd" <whit...@gmail.com> wrote in message
>>
>> news:69863d94-450f-49b5-bdc0-4428e4f21c20@h19g2000yqb.googlegroups.com...
>>
>> > On Aug 27, 10:31 am, "Jeff Johnson" <Jeff_John...@Hotmail.com> wrote:
>>
>> >> The theory of ideal inductors does not give any reason why a 1/2 turn
>> >> should
>> >> at all be important.
>>
>> > Oh, yes, it DOES give a reason. �A pot core (or E cores) has a pair of
>> > return
>> > flux arms flanking the central element, and a '1/2 turn' winding
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>> > those return fluxes.
>>
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>
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>> > two cases, and if one return arm saturates, that flux distribution
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>> > considerably during the cycle. �That causes (1) the material to heat
>> > due to remagnetization in an asymmetric way, (2) the forces of the
>> > pole pieces to modulate as the field builds. �The first effect (caused
>> > by material hysteresis) might have been expected. �The second
>> > effect, though, will cause ultrasonic excitation of the core, maybe
>> > creating cracks by mechanical stress.
>
>> ...all the effects you describe should heat the central
>> windings more than the outside and have little to do with the end turn
>> amount.
>
>Oh, this has nothing to do with ohmic heating in the windings. It
>concerns
>the B-H curve, which (for a hysteretic material) loops around some
>area.
>At 600 kHz, the area, multiplied by 6e6, is the power lost when the
>magnetic material is forced to traverse that loop.
>If part of the material saturates, its loop is of greater area than
>the rest of
>the material.   A core that should handle 2A without overheating, then
>would overheat.

You may be on to something. Maybe. At least it make physics sense to
me, but then i are enguneer. It does show a path to have thermal
non-uniformity that is regenreative.

Say Mike just how big is that pot core?

```
From 6775623604662678958
X-Google-Thread: fc2a5,e290d8226d5693ff
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!h40g2000pro.googlegroups.com!not-for-
mail
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The reason we have Gravity?
Date: Sun, 29 Aug 2010 07:43:06 -0700 (PDT)
Organization: http://groups.google.com
Lines: 12
Message-ID: <75c81afa-8b35-4380-b252-d66c6448d60d@h40g2000pro.googlegroups.com>
References: <680014ee-46b5-4725-84d1-f956b7c3b122@y11g2000yqm.googlegroups.com>
 <h_OdnQfwEvyI1ufRnZ2dnUVZ_v6dnZ2d@bright.net>
NNTP-Posting-Host: 68.67.102.57
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1283092987 8161 127.0.0.1 (29 Aug 2010 14:43:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 29 Aug 2010 14:43:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h40g2000pro.googlegroups.com; posting-host=68.67.102.57; posting-
account=LQVNZAkAAAAHQ9vQRrCB-Qc9fLbREhw4
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.8)
 Gecko/20100722 Firefox/3.6.8 ( .NET CLR 3.5.30729),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3775

On Aug 29, 4:57=A0am, Scott <acepilotREM...@bloomer.net> wrote:
> On 8-29-2010 04:06, fitz wrote:
>
> > The reason we have Gravity?
>
> I thought we had gravity to keep chip components on the PC board until
> we got them soldered down....

No, Scott. The components stay on the board because the flux in the
solder paste is real sticky!

Paul


From -5401578867226654153
X-Google-Thread: fc2a5,e290d8226d5693ff
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
```

```
NNTP-Posting-Date: Sun, 29 Aug 2010 10:32:24 -0500
Date: Sun, 29 Aug 2010 15:32:24 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.8) Gecko/
20100802 Thunderbird/3.1.2
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The reason we have Gravity?
References: <680014ee-46b5-4725-84d1-f956b7c3b122@y11g2000yqm.googlegroups.com>
<h_OdnQfwEvyI1ufRnZ2dnUVZ_v6dnZ2d@bright.net> <75c81afa-8b35-4380-b252-
d66c6448d60d@h40g2000pro.googlegroups.com>
In-Reply-To: <75c81afa-8b35-4380-b252-d66c6448d60d@h40g2000pro.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <-ZKdnUWhEYIV4OfRnZ2dnUVZ_u-dnZ2d@bright.net>
Lines: 19
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-RiyUqXcBG0duW23E7UreHf/NI4Sfp21NEl/
a1wI0TzJ7Mdu4GG+1vpb2uSounpgILhnm26ydObJiB6q!
TmghpyFoqZZZ3CWdAMmamP2a6RKh7bA0Ob6EMt9ddBd9mxQS0aCzoU/NDKh8vJBi9VNhConDGkdk!
nCe1rDjIzg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3776

On 8-29-2010 14:43, pdrahn@coinet.com wrote:
> On Aug 29, 4:57 am, Scott<acepilotREM...@bloomer.net>  wrote:
>> On 8-29-2010 04:06, fitz wrote:
>>
>>> The reason we have Gravity?
>>
>> I thought we had gravity to keep chip components on the PC board until
>> we got them soldered down....
>
> No, Scott. The components stay on the board because the flux in the
> solder paste is real sticky!
>
> Paul


I don't use paste...just regular "no clean" solder.  But then again, I'm
a masochist ;)




From 4474398327235878663
X-Google-Thread: fc2a5,7a33f03bd1c2140e,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!eternal-september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: VHF relays and VHF SWR meter for sale
Date: Sun, 29 Aug 2010 12:49:40 -0500
Organization: A noiseless patient Spider
Lines: 36
Message-ID: <i5e6jk$7h6$3@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sun, 29 Aug 2010 17:49:41 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="UIT+niVQSv8LIdTphuwBlA";
     logging-data="7718"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19frWQ2HdxAf9jtl9Xy2n37"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.8) Gecko/20050511 Mnenhy/0.7.2.0
X-Accept-Language: en-us
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 100829-0, 08/29/2010), Outbound message
Cancel-Lock: sha1:A5FJAuBGSUyAtoqUWAK8Oc0hy2c=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3777

I have two NEC 536300 relays for sale. The specs are:

50 ohms input and output
150 Watts to 470 MHz
VSWR 1.25:1
Crosstalk 40 dB
12 VDC coil
Shown in August 1965 VHFer if you still have it. I don't.

They can be viewed at:

http://home.comcast.net/~hsknoll/site/?/photos/&PHPSESSID=29ec62ea0bf1fe4d25e318b011cf0bbf

or

http://tinyurl.com/yktwxpz   click on photo to enlarge it.

I'm asking $10 each plus shipping.

===
I have a Heath HM-2102 VHF SWR meter 50-160 MHz
0-25 and 0-250 watts. Very good condition.

I'm *asking* $40 plus shipping.

It can be viewed at:

http://home.comcast.net/~hsknoll/site/?/photos/
&PHPSESSID=29ec62ea0bf1fe4d25e318b011cf0bbf

or

http://tinyurl.com/yktwxpz   click on photo to enlarge it.

Henry   WA0GOZ

From 6339621009428821730
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <i53nja$2qd$1@news.eternal-september.org>
<ec0b$4c7650d8$18ec6dd7$9856@KNOLOGY.NET> <i56cfb$7ce$1@news.eternal-september.org> <72245$4c76d77e$18ec6dd7$28051@KNOLOGY.NET>
<i57kn8$rfs$1@news.eternal-september.org>
<51615$4c77d27b$45013905$21492@KNOLOGY.NET> <i58sq5$i01$1@news.eternal-september.org> <69863d94-450f-49b5-bdc0-4428e4f21c20@h19g2000yqb.googlegroups.com>
<i5978q$kj2$1@news.eternal-september.org> <610381d0-c522-4bbf-9bb4-0a3b148fa4b3@a36g2000yqc.googlegroups.com>
<4sok76hb6040167vgd69cr6n7hbe6bdogt@4ax.com>
Subject: Re: Heating in 4-1/2 turn inductor
Date: Sun, 29 Aug 2010 14:37:49 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 100829-1, 08/29/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <9c01a$4c7ab69c$45013905$24851@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 63
X-Trace: 9c01a4c7ab69ce0a49ca024851
Xref: g2news1.google.com rec.radio.amateur.homebrew:3778
sci.electronics.design:183369

"JosephKK" <quiettechblue@yahoo.com> wrote in message
news:4sok76hb6040167vgd69cr6n7hbe6bdogt@4ax.com...

```
> On Fri, 27 Aug 2010 14:23:13 -0700 (PDT), whit3rd <whit3rd@gmail.com>
> wrote:
>
>>On Aug 27, 1:30 pm, "Jeff Johnson" <Jeff_John...@Hotmail.com> wrote:
>>> "whit3rd" <whit...@gmail.com> wrote in message
>>>
>>> news:69863d94-450f-49b5-bdc0-4428e4f21c20@h19g2000yqb.googlegroups.com...
>>>
>>> > On Aug 27, 10:31 am, "Jeff Johnson" <Jeff_John...@Hotmail.com> wrote:
>>>
>>> >> The theory of ideal inductors does not give any reason why a 1/2 turn
>>> >> should
>>> >> at all be important.
>>>
>>> > Oh, yes, it DOES give a reason. A pot core (or E cores) has a pair of
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>>> > flux arms flanking the central element, and a '1/2 turn' winding
>>> > imbalances
>>> > those return fluxes.
>>>
>>> In the ideal case the fringe effects are usually ignored.
>>
>>   What 'fringe effects'?   This is about the flux contained in the
>>   magnetic arms of the core, not outside somewhere
>>
>>> > That means the 3-d flux inside the core is very different in the
>>> > two cases, and if one return arm saturates, that flux distribution
>>> > alters
>>> > considerably during the cycle. That causes (1) the material to heat
>>> > due to remagnetization in an asymmetric way, (2) the forces of the
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>>> > by material hysteresis) might have been expected. The second
>>> > effect, though, will cause ultrasonic excitation of the core, maybe
>>> > creating cracks by mechanical stress.
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>>> ...all the effects you describe should heat the central
>>> windings more than the outside and have little to do with the end turn
>>> amount.
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>>Oh, this has nothing to do with ohmic heating in the windings.  It
>>concerns
>>the B-H curve, which (for a hysteretic material) loops around some
>>area.
>>At 600 kHz, the area, multiplied by 6e6, is the power lost when the
>>magnetic material is forced to traverse that loop.
>>If part of the material saturates, its loop is of greater area than
>>the rest of
>>the material.   A core that should handle 2A without overheating, then
>>would overheat.
>
> You may be on to something.  Maybe.  At least it make physics sense to
> me, but then i are enguneer.  It does show a path to have thermal
> non-uniformity that is regenreative.
```

```
>
> Say Mike just how big is that pot core?

 I think it may have been a 3622 but could have been a 4229.
                               MikeK




From -376446896574234611
X-Google-Thread: fc2a5,e290d8226d5693ff
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news2
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The reason we have Gravity?
Date: Sun, 29 Aug 2010 18:30:44 -0500
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 16
Message-ID: <i5eqj50286b@news2.newsguy.com>
References: <680014ee-46b5-4725-84d1-f956b7c3b122@y11g2000yqm.googlegroups.com>
<h_OdnQfwEvyI1ufRnZ2dnUVZ_v6dnZ2d@bright.net> <i5eag5$boc$1@dk3uz.ampr.org>
NNTP-Posting-Host: p5edc53b61b5359d7dcf6e31adb82a71d63c1bf98d2e66815.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
In-Reply-To: <i5eag5$boc$1@dk3uz.ampr.org>
Xref: g2news1.google.com rec.radio.amateur.homebrew:3780

Edmund H. Ramm wrote:
> In <h_OdnQfwEvyI1ufRnZ2dnUVZ_v6dnZ2d@bright.net> Scott
<acepilotREMOVE@bloomer.net> writes:
>
>> On 8-29-2010 04:06, fitz wrote:
>
>>> The reason we have Gravity?
>
>> I thought we had gravity to keep chip components on the PC board until
>> we got them soldered down....
>
>    Nope, it's there because this Newton invented it...


We need gravity to keep from floating away when we fall.

-B.
```

```
From -7347308926981377O4
X-Google-Thread: fc2a5,37f5989ac18e2470
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!b35g2000yqi.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Are all the fundamental forces nothing but simple PHASE
     relationships?
Date: Tue, 13 Jul 2010 03:07:42 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <b6718106-04ed-4471-a2a2-4cfe1628cf76@b35g2000yqi.googlegroups.com>
References: <c95e5a04-9ec5-4ff8-9d30-c21bfe44afbb@k39g2000yqb.googlegroups.com>
NNTP-Posting-Host: 99.181.100.50
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1279015663 342 127.0.0.1 (13 Jul 2010 10:07:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 13 Jul 2010 10:07:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b35g2000yqi.googlegroups.com; posting-host=99.181.100.50;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
     rv:1.8.1.24pre) Gecko/20100228 K-Meleon/1.5.4,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3606
```

Hey OM:

Yes Fritz you got something there. I knew something was amiss after I found out that George Washington we were taught in school was the first president, wasn't really the first president, they'd been teaching me a lie for so many many years.

But I did my research the earth is flat. The United Nations LOGO proves it. The UN logo is the flat earth. It's all just an illusion that the earth is a spheriod and they have all the math and physics to prove it is spheriod.

It all goes with the saying: figures can lie and liers can figure.

73 OM
de n8zu

> "in phase attract"
>
> Type those three words - above - into Google (Include quote marks) to
> learn not only the basics of electricity but how all the fundamental
> forces work.

>
> Or click the following link that will give you the same page in
> Google.http://www.google.com/search?hl=en&source=hp&q=%22in+phase+attract%22...
>
> Not only do all electric motors obey these phase laws but this entire
> universe does as well.
>
> (Click link below.)http://www.amperefitz.com/in.phase.attract.htm

From 3967488978340544449
X-Google-Thread: fc2a5,d47d282b2c4cc4ce
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!j4g2000yqh.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Charles M0DED (ex Z21GQ ex ZS6BYB) saying "Hello"
Date: Tue, 13 Jul 2010 03:22:10 -0700 (PDT)
Organization: http://groups.google.com
Lines: 45
Message-ID: <593ae6ee-e788-427b-bda4-440bdf3054ee@j4g2000yqh.googlegroups.com>
References: <Charles.Frizell.67c5748@radiobanter.com>
NNTP-Posting-Host: 99.181.100.50
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1279016530 32426 127.0.0.1 (13 Jul 2010 10:22:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 13 Jul 2010 10:22:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j4g2000yqh.googlegroups.com; posting-host=99.181.100.50;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
rv:1.8.1.24pre) Gecko/20100228 K-Meleon/1.5.4,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3607

Hey OM

I don't like to push ebay but you have to go online at http://www.ebay.co.uk.

73 OM
de n8zu

On Jul 8, 7:09 pm, Charles Frizell <Charles.Frizell.
67c5...@radiobanter.com> wrote:
> Greetings everyone!
>

> I have been living in UK the last 8 years, since having to leave my home
> country Zimbabwe (the Z21GQ c/s). My primary job most of my life was the
> design and construction of power electronics - things like 25kA
> rectifiers and railway traction systems, though I started out as an RF
> engineer with the Rhodesian PTC in 1963 and served in the Signals
> Workshop during the Rhodesian war (part-time). Now I teach people all
> over thr world how to maintain and repair linear accelerators from 2 to
> 15MeV.
>
> I am very interested in homebrew (back home I had a factory making DIY
> solar lighting kits and getting pcb's done was no problem) but here in
> the UK I am lost for RF components, pcb makers and so on.
>
> What I am particulary interested right now is whether anyone has a good
> circuit for an AD9910 DDS that I can control from my laptop? Of course,
> where to get a pcb would be a wonderful advantage. I've designed
> hundreds of boards in the past, but not since comning to the UK.
> Initially I want to use the DDS to check out HF front end filer
> characteristics for 14, 18, 10MHz
>
> I have 2 Telefunkeb E1500 RX's as well as an ICOM IC-745. Longer term I
> would like to install H-Mode mixers in both, and narrow band filters in
> the E1500 (ham bands)
>
> Any emails and ideas would be greatly appreciated
>
> Charles
> M0DED
>
> --
> Charles Frizell

From -7531103075082602861
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k39g2000yqd.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: direct conversion receiver Question
Date: Tue, 13 Jul 2010 03:49:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 35
Message-ID: <a47b3715-d90b-4c3a-9f3a-f8864a30d519@k39g2000yqd.googlegroups.com>
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
NNTP-Posting-Host: 99.181.100.50
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1279018149 21937 127.0.0.1 (13 Jul 2010 10:49:09 GMT)

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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 13 Jul 2010 10:49:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k39g2000yqd.googlegroups.com; posting-host=99.181.100.50;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
     rv:1.8.1.24pre) Gecko/20100228 K-Meleon/1.5.4,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3608
```

Hey OM:

In the ole NTSC days gone bye, that's how they detected the video signal in the last of the ole NTSC TV's, took the SAW filtered IF and squeezed the video out by converting the RF right to video baseband, with the carrier as an LO OSC all inside one little tiny IC

I just never new what happened to the frequencies that were below ZERO from the mixer.

73 OM
de n8zu

On Jul 11, 11:50 am, "amdx" <a...@knology.net> wrote:

> In a direct conversion receiver, does the osc. run at
> exactly the same frequency as the received signal?
>
> Assuming the answer is yes;
> Is it possible to have a high Q LC front end at the output from the
> antenna,
> split the signal and feed one output to the rf input of the mixer and feed
> the other splitter output to an amplifier and use the amplified signal to
> drive the osc input of the mixer?
>
> Simple block diagram of proposed idea;http://i395.photobucket.com/albums/pp37/Qmavam/directconversion.jpg
>
> --
> MikeK

```
From 3921927689206970854
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
<88a2d$4c3b7e54$45013905$4086@KNOLOGY.NET> <%JQ_n.11367$Hw.6710@newsfe10.iad>
Subject: Re: direct conversion receiver Question
Date: Tue, 13 Jul 2010 07:43:47 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3664
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3664
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 100712-1, 07/12/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <839db$4c3c5f34$18ec6dd7$29568@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 33
X-Trace: 839db4c3c5f34bd49c87229568
Xref: g2news1.google.com rec.radio.amateur.homebrew:3609
```

--
MikeK
"Graeme Zimmer" <gzimmer@wideband.net.au> wrote in message
news:%JQ_n.11367$Hw.6710@newsfe10.iad...
> Hello Mike,
>
> If you Google on "Synchronous AM Detector" and "Exalted Carrier Reception"
> you'll find lots of info
>
> This is good place to start....
> http://www.radio-electronics.com/info/receivers/synchdet/sync_det.php
>
>
> Regards .... Zim

Thanks Graeme,
I'm thinking about building the mixer that was in QST Feb., 1993, an article by
Jacob Makhinson. Titled, "A High-Dynamic-Range MF/HF Receiver Front End"
The mixer uses a quad FET IC, (Si8901 from Calolgic corp.)
The only online reference that I can find is here; See pdf pages 26 (text)
27 (schematic)
http://files.bluecrow.net/Amateur%20Radio/arrl_handbook_2007/11.pdf
The front end is designed in three modules, preamp, mixer, and post amp.
Anyway I'm thinking about building the mixer and playing with it in the
AMBCB.
Even thoughts about building an I/Q receiver.
Mike
(Note; I do more thinking than building ;-)

From -5401664418179426021
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 13 Jul 2010 13:14:13 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: direct conversion receiver Question
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
<88a2d$4c3b7e54$45013905$4086@KNOLOGY.NET> <%JQ_n.11367$Hw.6710@newsfe10.iad>
<839db$4c3c5f34$18ec6dd7$29568@KNOLOGY.NET>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Tue, 13 Jul 2010 11:14:08 -0700
Message-ID: <g0nug7-hc3.ln1@radagast.org>
Lines: 41
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.159.209.148
X-Trace: sv3-1kAFFcONXqzHlYfGJlz4uQRAF7LvZFeQ685+hiVYyKjmqf7G0tb/
YrVl6T8Hb9UYmSIO+wKpat0Oy+G!
JtPDJCmB5s9UqQ4XL+deMZiFhWH+MIDTLtDuBo0z+yp1X5ci+Rqakq3LjqbWNA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3610

In article <839db$4c3c5f34$18ec6dd7$29568@KNOLOGY.NET>,
amdx <amdx@knology.net> wrote:

> Thanks Graeme,
> I'm thinking about building the mixer that was in QST Feb., 1993, an
>article by
>Jacob Makhinson. Titled, "A High-Dynamic-Range MF/HF Receiver Front End"
>The mixer uses a quad FET IC, (Si8901 from Calolgic corp.)
>The only online reference that I can find is here; See pdf pages 26 (text)
>27 (schematic)
>http://files.bluecrow.net/Amateur%20Radio/arrl_handbook_2007/11.pdf

Google around for "H-mode mixer" and "Tayloe mixer" if you want more
information. http://www.webalice.it/romano.cartoceti/h-mode_links.htm
will get you started with *many* links to investigate.

There has been a lot of interest in this sort of switching mixer topology in recent years... quite a few articles in QEX for example. Many designs have come out, some of which are based on general-purpose multi-FET parts such as you suggest, and others which are based on CMOS "fast bus switching" ICs, such as the FST3125 and similar. This seems to be a very good topology for handing signals having a very wide dynamic range... I believe that Elecraft uses a design of this sort in their K3 transceiver.

>The front end is designed in three modules, preamp, mixer, and post amp.
>Anyway I'm thinking about building the mixer and playing with it in the
>AMBCB.
> Even thoughts about building an I/Q receiver.

Yeah, I've been toying with that sort of idea too... making a "binaural" direct-conversion receiver. There was a binaural design published in QST a year or so ago, which uses the NE602 or similar Gilbert-cell mixers... building one which uses H-mode switching mixers and a couple of low-noise audio amplifying chains could be fun.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From 7628054672227509052
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!STARBAND.NET-a2kHrUvQQWlmc!not-for-mail
From: You <you@shadow.orgs>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: direct conversion receiver Question
Organization: Shadow.orgs
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
<88a2d$4c3b7e54$45013905$4086@KNOLOGY.NET> <%JQ_n.11367$Hw.6710@newsfe10.iad>
<839db$4c3c5f34$18ec6dd7$29568@KNOLOGY.NET>
User-Agent: MT-NewsWatcher/3.5.3b3 (PPC Mac OS X)
Date: Tue, 13 Jul 2010 10:41:32 -0800
Message-ID: <you-E325FE.10413213072010@unknown.hwng.net>
X-Complaints-To: abuse@usenetserver.com
Lines: 40
X-Trace: cb8d94c3cb33d31e5901f18203
Xref: g2news1.google.com rec.radio.amateur.homebrew:3611

In article <839db$4c3c5f34$18ec6dd7$29568@KNOLOGY.NET>,
 "amdx" <amdx@knology.net> wrote:

```
> --
> MikeK
> "Graeme Zimmer" <gzimmer@wideband.net.au> wrote in message
> news:%JQ_n.11367$Hw.6710@newsfe10.iad...
> > Hello Mike,
> >
> > If you Google on "Synchronous AM Detector" and "Exalted Carrier Reception"
> > you'll find lots of info
> >
> > This is good place to start....
> > http://www.radio-electronics.com/info/receivers/synchdet/sync_det.php
> >
> >
> > Regards ........... Zim
>   Thanks Graeme,
>   I'm thinking about building the mixer that was in QST Feb., 1993, an
> article by
> Jacob Makhinson. Titled, "A High-Dynamic-Range MF/HF Receiver Front End"
> The mixer uses a quad FET IC, (Si8901 from Calolgic corp.)
> The only online reference that I can find is here; See pdf pages 26 (text)
> 27 (schematic)
> http://files.bluecrow.net/Amateur%20Radio/arrl_handbook_2007/11.pdf
> The front end is designed in three modules, preamp, mixer, and post amp.
> Anyway I'm thinking about building the mixer and playing with it in the
> AMBCB.
>  Even thoughts about building an I/Q  receiver.
>                                       Mike
> (Note; I do more thinking than building ;-)
```

You should look at the Northern Radio Model N570/571 Marine SSB Radios, that were designed and built back in the Early 70's. They used at rather unique design with a Double Balanced Mixer at the Receive Antenna Port, that moved the IF up to a low VHF biDirectional Amp and Filter, and then back down to a 10.7 Mhz IF with another Double Balanced Mixer, and on to the Crystal SSB Filter, and Demodulator. The Double Balanced Mixers were driven by an LO System that canceled out any Frequency Drift, by using opposite Mixing Images.

```
From -6356607769988062183
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe10.iad.POSTED!6ec25d62!not-for-mail
From: "Graeme Zimmer" <gzimmer@wideband.net.au>
Newsgroups: rec.radio.amateur.homebrew
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
<88a2d$4c3b7e54$45013905$4086@KNOLOGY.NET> <%JQ_n.11367$Hw.6710@newsfe10.iad>
<839db$4c3c5f34$18ec6dd7$29568@KNOLOGY.NET>
Subject: Re: direct conversion receiver Question
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Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Response
Message-ID: <%v6%n.11793$Hw.8857@newsfe10.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Tue, 13 Jul 2010 23:19:23 UTC
Organization: TeraNews.com
Date: Wed, 14 Jul 2010 09:19:16 +1000
Xref: g2news1.google.com rec.radio.amateur.homebrew:3612

Hi again Mike,

>  I'm thinking about building the mixer that was in QST Feb., 1993

You might have a look at my old DSP receiver at:
http://members.wideband.net.au/gzimmer/


Regards ............ Zim





From -6591530876272647595
X-Google-Thread: fc2a5,14ba23da1371f7ed,start
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,14ba23da1371f7ed,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!b4g2000pra.googlegroups.com!not-for-
mail
From: "www.jersey-2009.com" <brandtrade02@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: Discount cheapsale Levi s Jeans http://www.brandtrade99.com/ )
Date: Tue, 13 Jul 2010 19:50:24 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <6fe2b56d-0f7a-41bc-876c-de919d488141@b4g2000pra.googlegroups.com>
NNTP-Posting-Host: 58.22.133.59
Mime-Version: 1.0
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X-Trace: posting.google.com 1279075824 13884 127.0.0.1 (14 Jul 2010 02:50:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 14 Jul 2010 02:50:24 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b4g2000pra.googlegroups.com; posting-host=58.22.133.59;
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3613
rec.puzzles.crosswords:7994

Discount cheapsale Affliction Jeans  <free shipping paypal payment>
Discount cheapsale AK Jeans  (http://www.brandtrade99.com/ )
Discount cheapsale Armani Jeans  <free shipping paypal payment>
Discount cheapsale Artful Dodger Jeans <free shipping paypal payment>
Discount cheapsale BAPE Jeans  <free shipping paypal payment>
Discount cheapsale BBC Jeans (http://www.brandtrade99.com/ )
Discount cheapsale Black Label Jeans
Discount cheapsale Cavalli Jeans  <free shipping paypal payment>
Discount cheapsale Christian Audigier Jeans
Discount cheapsale Coogi Jeans
Discount cheapsale Crown Holder Jeans (http://
www.brandtrade99.com/ )
Discount cheapsale D&G Jeans
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Discount cheapsale ED Hardy Jeans
Discount cheapsale Evisu Jeans  <free shipping paypal payment>
Discount cheapsale G-STAR Jeans <free shipping paypal payment>
Discount cheapsale GUCCI Jeans
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Discount cheapsale Kanji Jeans (http://www.brandtrade99.com/ )
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Discount cheapsale Versace Jeans  <free shipping paypal payment>
Discount cheapsale ZEN Jeans (http://www.brandtrade99.com/ )


From 1963124739217100839
X-Google-Thread: fc2a5,d47d282b2c4cc4ce
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!goblin3!goblin.stu.neva.ru!
news-2.dfn.de!news.dfn.de!feeder.erje.net!news2.arglkargh.de!nuzba.szn.dk!pnx.dk!
amsnews11.chello.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!
209.197.12.246.MISMATCH!nx02.iad01.newshosting.com!newshosting.com!
216.196.98.152.MISMATCH!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 13 Jul 2010 23:11:24 -0500
From: Charles Frizell <Charles.Frizell.682eec8@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
```

Subject: Re: Charles M0DED (ex Z21GQ ex ZS6BYB) saying "Hello"
Date: Wed, 14 Jul 2010 00:14:50 +0000
Message-ID: <Charles.Frizell.682eec8@radiobanter.com>
Organization: RadioBanter.com
References: <Charles.Frizell.67c5748@radiobanter.com>
<M0Pcf3CJFaOMFw4M@ntlworld.com>
Lines: 30
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X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 23
Xref: g2news1.google.com rec.radio.amateur.homebrew:3614

Ian Wade G3NRW;712687 Wrote:
> Charles,
>
> I emailed a reply to you, but it bounced. So here is what I said:
>
> I can't answer your questions, but I think it would be a good idea for
> you to join the RSGB Technical reflector and ask the
>
> http://groups.yahoo.com/group/rsgbtech/
>
> You don't have to be an RSGB member to join the reflector, and I know
> that the people there are very helpful.
>
> Good luck.
>
> --
> 73
> Ian, G3NRW

Thanks Ian
I am a member of RSGB, so will try that site.
Thanks
Charlea
M0DED

--
Charles Frizell

From 6410763573775275413

```
X-Google-Thread: fc2a5,b9b22ee5faae66ee,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y32g2000prc.googlegroups.com!not-for-
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From: BASS <dalermehandi9247@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT&EXCLUSIVE
Date: Wed, 14 Jul 2010 06:25:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <68467a83-2fdc-4bce-90ff-e9a45270f201@y32g2000prc.googlegroups.com>
NNTP-Posting-Host: 117.199.251.234
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1279113950 26604 127.0.0.1 (14 Jul 2010 13:25:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 14 Jul 2010 13:25:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y32g2000prc.googlegroups.com; posting-host=117.199.251.234;
     posting-account=ChMvegkAAADX5lcnTEWruk43MP3_cJY6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.6)
     Gecko/20100625 Firefox/3.6.6,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3615

HOT HEROINES PHOTOS

http://hotheroinesphoto.blogspot.com/
SEXY SNEHA

http://hotheroinesphoto.blogspot.com/2010/06/sneha-hot.html
KOUSHA HOT EXPOSING

http://hotheroinesphoto.blogspot.com/2010/06/sexy-kousha.html
PRIYAMANI IN HOT BIKINI

http://hotheroinesphoto.blogspot.com/2010/06/priyamani-hot.html
MADHUSHALINI IN HOT DRESS

http://hotheroinesphoto.blogspot.com/2010/06/blog-post_2972.html
HOTTEST LIPKISS

http://hotheroinesphoto.blogspot.com/2010/06/lipkiss-2.html
NAMITHA IN BATH

http://hotheroinesphoto.blogspot.com/2010/06/nayagarala-namitha.html
http://hotheroinesphoto.blogspot.com/2010/06/nayagarala-namitha.html


From 3795064716710590207
X-Google-Thread: fc2a5,bbd81b0c0662421b,start
```

```
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!feeder.news-
service.com!eweka.nl!hq-usenetpeers.eweka.nl!news.astraweb.com!
border5.a.newsrouter.astraweb.com!not-for-mail
Message-ID: <x7JYGJA5SfPMFwHC@pentode.demon.co.uk>
Date: Wed, 14 Jul 2010 18:32:41 +0100
From: JC Morrice <John@pentode.demon.co.uk>
Reply-To: JC Morrice <john@pentode.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: MiniCircuits DBM ---  SBL-1-8
Organization: None
MIME-Version: 1.0
X-Newsreader: Turnpike Integrated Version 5.02 U <nGtWrW0LtseXVevfbd3+dzMKKl>
Lines: 30
NNTP-Posting-Host: 17ac0010.news.astraweb.com
X-Trace: DXC=0Lo9ME:`CfCc_WgCkn9MLEL?0kYOcDh@JMFjQ3_9ALVK<36Q>W97<VD1cR0GfcSBlKCS?
^IoYKS_Ejb<Y:VfkKkI
Xref: g2news1.google.com rec.radio.amateur.homebrew:3616
```

Hi all

As titled. I have just got one out of my stock of parts and have no data.

It was bought 15 odd years ago and, sadly, any data with it seems to have gone with the wind. There appears to be no online reference or data for the item in the SBL-1-X series, so no doubt it's obsolete.

I am just about to use it for a non-critical application, but wonder if it differs markedly from the usual SBl-1's? I would hate to badly under drive it, or worse, use it as an expensive fuse!

The part is marked:

        MCL SBL-1-8
        915215

Does any kind soul have an old catalogue or data sheet, or even the info at their finger tips.... or has even heard of them?

Just looking for the headline differences, please, if possible, thank you.

John
GW0OAJ
--
JC Morrice
john@pentode.demon.co.uk

```
From -7738461330344598334
X-Google-Thread: fc2a5,bbd81b0c0662421b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!xlned.com!feeder5.xlned.com!feeder2.cambriumusenet.nl!
feed.tweaknews.nl!posting.tweaknews.nl!not-for-mail
From: "pa5tig" <pa5tig(at)@amsat.org>
Newsgroups: rec.radio.amateur.homebrew
References: <x7JYGJA5SfPMFwHC@pentode.demon.co.uk>
Subject: Re: MiniCircuits DBM ---  SBL-1-8
Date: Wed, 14 Jul 2010 21:22:38 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Original
Lines: 38
Message-ID: <4c3e0e80$0$12689$bf4948fe@news.tele2.nl>
Organization: Tele2
X-Trace:
DXC=7W750H`WUD2gC>1ZBi:o1:6`Y6aWje^Y:P2ZOgKZlFN8KRg]Z72^Qo6XfYUU[8DBD>Q>c6OU:c^<9
Xref: g2news1.google.com rec.radio.amateur.homebrew:3617

http://www.datasheetarchive.com/SBL-1-datasheet.html
try this link.


"JC Morrice" <John@pentode.demon.co.uk> schreef in bericht
news:x7JYGJA5SfPMFwHC@pentode.demon.co.uk...
>
> Hi all
>
> As titled.  I have just got one out of my stock of parts and have no
> data.
>
> It was bought 15 odd years ago and, sadly, any data with it seems to
> have gone with the wind.  There appears to be no online reference or
> data for the item in the SBL-1-X series, so no doubt it's obsolete.
>
> I am just about to use it for a non-critical application, but wonder if
> it differs markedly from the usual SBl-1's?  I would hate to badly under
> drive it, or worse, use it as an expensive fuse!
>
> The part is marked:
>
>        MCL SBL-1-8
>        915215
>
> Does any kind soul have an old catalogue or data sheet, or even the info
> at their finger tips....  or has even heard of them?
```

```
>
> Just looking for the headline differences, please, if possible, thank
> you.
>
> John
> GW0OAJ
> --
> JC Morrice
> john@pentode.demon.co.uk




From 2306945501372727856
X-Google-Thread: fc2a5,bbd81b0c0662421b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder2.cambriumusenet.nl!
feed.tweaknews.nl!193.201.147.71.MISMATCH!xlned.com!feeder3.xlned.com!
news.astraweb.com!border5.a.newsrouter.astraweb.com!not-for-mail
Message-ID: <j2jMljASKiPMFwUa@pentode.demon.co.uk>
Date: Wed, 14 Jul 2010 21:48:18 +0100
From: JC Morrice <John@pentode.demon.co.uk>
Reply-To: JC Morrice <john@pentode.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MiniCircuits DBM ---  SBL-1-8
References: <x7JYGJA5SfPMFwHC@pentode.demon.co.uk>
 <4c3e0e80$0$12689$bf4948fe@news.tele2.nl>
Organization: None
MIME-Version: 1.0
X-Newsreader: Turnpike Integrated Version 5.02 U <0gnWrOW4tse5Oevf1ex+d$Vg3c>
Lines: 28
NNTP-Posting-Host: 380578aa.news.astraweb.com
X-Trace: DXC==QO?23>iaKM5\iVS6:P;:IL?0kYOcDh@Jic2h253iQlFRZh1_R2RCmK1cR0GfcSBlKCS?
^IoYKS_EhYN=EM7`8Z@
Xref: g2news1.google.com rec.radio.amateur.homebrew:3618

In article <4c3e0e80$0$12689$bf4948fe@news.tele2.nl>, pa5tig
<pa5tig@amsat.org> writes


>http://www.datasheetarchive.com/SBL-1-datasheet.html
>try this link.
>"JC Morrice" <John@pentode.demon.co.uk> schreef in bericht
>news:x7JYGJA5SfPMFwHC@pentode.demon.co.uk...


snip

>> The part is marked:
>>
>>        MCL SBL-1-8
```

>>   915215

snip

Thanks for your link, but I have already been to that and others, as indicated. No joy on the dash1 dash8 flavour; that includes MiniCircuits own current database. Hence my post.....

John
GW0OAJ
--
JC Morrice
john@pentode.demon.co.uk

From -5837939849650349219
X-Google-Thread: fc2a5,bbd81b0c0662421b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!j4g2000yqh.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MiniCircuits DBM --- SBL-1-8
Date: Thu, 15 Jul 2010 13:09:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 47
Message-ID: <0fc2f868-f9a0-4b96-83ba-ed80c7dc3d6d@j4g2000yqh.googlegroups.com>
References: <x7JYGJA5SfPMFwHC@pentode.demon.co.uk>
<4c3e0e80$0$12689$bf4948fe@news.tele2.nl>
     <j2jMljASKiPMFwUa@pentode.demon.co.uk>
NNTP-Posting-Host: 99.181.100.50
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1279224553 16579 127.0.0.1 (15 Jul 2010 20:09:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 15 Jul 2010 20:09:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j4g2000yqh.googlegroups.com; posting-host=99.181.100.50;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.80 (Windows NT 5.1; U; en) Presto/2.6.30
     Version/10.60,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3619

Hey OM

Did you try the WAYBACK MACHINE?

Go to http://archive.org
and type in www.minicircuits.com in the WAYBACK MACHINE

and go back a few years

The Application Data is still archived back to 1997.

73 OM
de n8zu

On Jul 14, 4:48=A0pm, JC Morrice <J...@pentode.demon.co.uk> wrote:
> In article <4c3e0e80$0$12689$bf494...@news.tele2.nl>, pa5tig
> <pa5...@amsat.org> writes
>
> >http://www.datasheetarchive.com/SBL-1-datasheet.html
> >try this link.
> >"JC Morrice" <J...@pentode.demon.co.uk> schreef in bericht
> >news:x7JYGJA5SfPMFwHC@pentode.demon.co.uk...
>
> snip
>
> >> The part is marked:
>
> >> =A0 =A0 =A0 =A0MCL SBL-1-8
> >> =A0 =A0 =A0 =A0915215
>
> snip
>
> Thanks for your link, but I have already been to that and others, as
> indicated. =A0No joy on the dash1 dash8 flavour; that includes
> MiniCircuits own current database. =A0Hence my post.....
>
> John
> GW0OAJ
> --
> JC Morrice
> j...@pentode.demon.co.uk

From 3937269424042741877
X-Google-Thread: fc2a5,bbd81b0c0662421b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.glorb.com!news-out.octanews.net!indigo.octanews.net!news-2.mpls.iphouse.net.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MiniCircuits DBM --- SBL-1-8
From: Bert Hyman <bert@iphouse.com>

```
References: <x7JYGJA5SfPMFwHC@pentode.demon.co.uk>
Organization: Not that you'd notice
Message-ID: <Xns9DB69C8BFB59CVeebleFetzer@216.250.188.141>
User-Agent: Xnews/2006.08.24
Date: 15 Jul 2010 20:23:21 GMT
Lines: 13
NNTP-Posting-Date: 15 Jul 2010 15:23:21 CDT
NNTP-Posting-Host: 52130f32.newsreader.iphouse.net
X-Trace: DXC=2Vj]MOD0<6IL0?
RHn[o<@FVn\Tj8`^BbKeHS>e[L>83@K>SH^=lCFS@1UFgaF43:7L`oTOF^SlXn@_X]=TQZAS0J
X-Complaints-To: abuse@iphouse.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:3620

In news:x7JYGJA5SfPMFwHC@pentode.demon.co.uk JC Morrice
<John@pentode.demon.co.uk> wrote:

> Does any kind soul have an old catalogue or data sheet, or even the info
> at their finger tips....  or has even heard of them?

Can't help you personally, but if nothing else turns up, as a last resort
there's always

jp <at> uk.minicircuits.com

--
Bert Hyman    W0RSB    St. Paul, MN  bert@iphouse.com


From 4089168177847669082
X-Google-Thread: fc2a5,bbd81b0c0662421b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!news2.arglkargh.de!news.musoftware.de!wum.musoftware.de!
border1.nntp.ams2.giganews.com!border2.nntp.ams2.giganews.com!
border2.nntp.ams.giganews.com!nntp.giganews.com!news.astraweb.com!
border5.a.newsrouter.astraweb.com!not-for-mail
Message-ID: <0sbpjVAyQ4PMFw2J@pentode.demon.co.uk>
Date: Thu, 15 Jul 2010 22:57:06 +0100
From: JC Morrice <John@pentode.demon.co.uk>
Reply-To: JC Morrice <john@pentode.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MiniCircuits DBM ---  SBL-1-8
References: <x7JYGJA5SfPMFwHC@pentode.demon.co.uk>
 <Xns9DB69C8BFB59CVeebleFetzer@216.250.188.141>
Organization: None
MIME-Version: 1.0
X-Newsreader: Turnpike Integrated Version 5.02 U <oFuWraxgtsOfLdvfzC2+dPAG9F>
Lines: 20
NNTP-Posting-Host: c72ff4e5.news.astraweb.com
X-Trace: DXC=4EXMbVVQ5\MDIol_\Lk[aFL?0kYOcDh@Je\cbX3\`@YMSfn@^OUb_FM1cR0GfcSBlKCS?
```

```
^IoYKS_EC_E5b3kYRLJ
X-Original-Bytes: 1389
Xref: g2news1.google.com rec.radio.amateur.homebrew:3621

In article <Xns9DB69C8BFB59CVeebleFetzer@216.250.188.141>, Bert Hyman
<bert@iphouse.com> writes

>> Does any kind soul have an old catalogue or data sheet, or even the info
>> at their finger tips....  or has even heard of them?
>
>Can't help you personally, but if nothing else turns up, as a last
>resort there's always
>
>jp <at> uk.minicircuits.com

Thanks all.  I got feedback from MCL.  Treat electrically as an SRA-1-1.
And from memory and from another NG, 0.1 to 200 MHz @ +7dBm LO
injection.

John
GW0OAJ
--
JC Morrice
john@pentode.demon.co.uk



From 1658568424069572780
X-Google-Thread: fc2a5,bbd81b0c0662421b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!d16g2000yqb.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MiniCircuits DBM --- SBL-1-8
Date: Fri, 16 Jul 2010 06:54:48 -0700 (PDT)
Organization: http://groups.google.com
Lines: 30
Message-ID: <cc77991c-bd36-476f-b800-0a1d6208487a@d16g2000yqb.googlegroups.com>
References: <x7JYGJA5SfPMFwHC@pentode.demon.co.uk>
<Xns9DB69C8BFB59CVeebleFetzer@216.250.188.141>
     <0sbpjVAyQ4PMFw2J@pentode.demon.co.uk>
NNTP-Posting-Host: 99.89.76.145
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1279288494 27912 127.0.0.1 (16 Jul 2010 13:54:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 16 Jul 2010 13:54:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d16g2000yqb.googlegroups.com; posting-host=99.89.76.145;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
```

User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.80 (Windows NT 5.1; U; en) Presto/2.6.30
Version/10.60,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3622

Hey OM:

From the miniciruits.com app notes archive in 1999 i found this:

6. LO DRIVE.
The LO drive is critical since the function of the LO drive is to switch the mixer diodes fully on and off for lowest distortion. So, for optimum performance, select the mixer level to match the LO drive. Mini-Circuits conveniently identifies its mixer levels by the LO drive requirement; thus a Level 7 mixer refers to a LO drive level of +7 dBm. If there are constraints on the LO power available, select the lowest level mixer closest to the available LO power. For example, if +12 dBm LO drive is available, select a Level 10 mixer.

73 OM
de n8zu

O
Thanks all. =A0I got feedback from MCL. =A0Treat electrically as an
SRA-1-1.
> And from memory and from another NG, 0.1 to 200 MHz @ +7dBm LO
> injection.
>
> John
> GW0OAJ
> --
> JC Morrice
> j...@pentode.demon.co.uk

From 3199164857179146026
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!FOXVALLEY.NET-a2kHrUvQQWlmc!not-for-mail
Date: Fri, 16 Jul 2010 17:55:25 -0600
From: Jack Schmidling <jack@schmidling.com>
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: direct conversion receiver Question
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
<88a2d$4c3b7e54$45013905$4086@KNOLOGY.NET> <%JQ_n.11367$Hw.6710@newsfe10.iad>

```
<839db$4c3c5f34$18ec6dd7$29568@KNOLOGY.NET> <%v6%n.11793$Hw.8857@newsfe10.iad>
In-Reply-To: <%v6%n.11793$Hw.8857@newsfe10.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <45b17$4c40f1ca$4087c807$28352@FOXVALLEY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 14
X-Trace: 45b174c40f1cae5226da228352
Xref: g2news1.google.com rec.radio.amateur.homebrew:3623
```

Graeme Zimmer wrote:

> You might have a look at my old DSP receiver at:
> http://members.wideband.net.au/gzimmer/

I have built several Softrock kits and have no inclination to use any
other receiver as a result. It's a receiver from heaven.

Looking at yours and the simple block diagram I am curious about how
this differs from quadrature processing.

Can you provide a few words of explanation.

Jack K9act

```
From 2673805878612027938
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe05.iad.POSTED!6ec25d62!not-for-mail
From: "Graeme Zimmer" <gzimmer@wideband.net.au>
Newsgroups: rec.radio.amateur.homebrew
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
<88a2d$4c3b7e54$45013905$4086@KNOLOGY.NET> <%JQ_n.11367$Hw.6710@newsfe10.iad>
<839db$4c3c5f34$18ec6dd7$29568@KNOLOGY.NET> <%v6%n.11793$Hw.8857@newsfe10.iad>
<45b17$4c40f1ca$4087c807$28352@FOXVALLEY.NET>
Subject: Re: direct conversion receiver Question
Lines: 20
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Response
Message-ID: <Ota0o.74895$Lj2.69161@newsfe05.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Sat, 17 Jul 2010 04:39:10 UTC
Organization: TeraNews.com
Date: Sat, 17 Jul 2010 14:37:51 +1000
Xref: g2news1.google.com rec.radio.amateur.homebrew:3624
```

Hi Jack,

> Looking at yours and the simple block diagram I am curious about how this
> differs from quadrature processing.

I'm not sure I understand your question.

As the diagrams show, the VFO is divided by four to produce 90deg quadrature LO signals which drive two mixers.The two audio channels pass through two BPF filters, one of which has a Gilbert transform to give 90 deg delay. It's the standard Phasing Method..

If you're asking about Binaural reception, it's the same as above, but less the Hilbert transform so there's no sideband suppression..

Admittedly that page is somewhat condensed (simplified) over the original.

Regards .... Zim VK3GJZ

```
From 2849342051435400835
X-Google-Thread: fc2a5,33afc515ffee34f6,start
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,33afc515ffee34f6,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n19g2000prf.googlegroups.com!not-for-
mail
From: "www.brandtrade10.com" <kissgoodbye5204@yahoo.com.cn>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: Gucci Handbags ((http://www.brandtrade99.com ) ) - (paypal payment)
Date: Sat, 17 Jul 2010 01:29:37 -0700 (PDT)
Organization: http://groups.google.com
Lines: 41
Message-ID: <8356a010-7e16-4a37-8770-7dcb0a271816@n19g2000prf.googlegroups.com>
NNTP-Posting-Host: 58.22.64.73
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1279355377 32594 127.0.0.1 (17 Jul 2010 08:29:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 17 Jul 2010 08:29:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n19g2000prf.googlegroups.com; posting-host=58.22.64.73;
     posting-account=8ZQzvAoAAACx0D0GopdrMsdXAHn1vXYl
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3625
rec.puzzles.crosswords:8000
```

Burberry Handbags
Balenciaga Handbags ((http://www.brandtrade99.com)) - (paypal payment)
Balenciaga Purse
Bally Purse
BOSS Purse ((http://www.brandtrade99.com)) - (paypal payment)
Chanel Handbags
Chanel Purse
Chloe Handbags ((http://www.brandtrade99.com)) - (paypal payment)
Chloe Purse
Coach Handbags ((http://www.brandtrade99.com)) - (paypal payment)
Coach Purse
D&G Purse ((http://www.brandtrade99.com)) - (paypal payment)
Dior Handbags
Dunhill Purse
Gucci Handbags ((http://www.brandtrade99.com)) - (paypal payment)
Gucci Purse
Hermes Purse
JIMMY CHOO Handbags ((http://www.brandtrade99.com)) - (paypal payment)
JIMMY CHOO Purse
LV Handbags ((http://www.brandtrade99.com)) - (paypal payment)
LV Purse
FENDI Handbags
Hermes Handbags ((http://www.brandtrade99.com)) - (paypal payment)
JUICY Handbags
KOOBA Handbags ((http://www.brandtrade99.com)) - (paypal payment)
LOEWE Handbags
Marc Jacobs Handbags ((http://www.brandtrade99.com)) - (paypal payment)
MIUMIU Handbags
MULBERRY Handbags
THOMASWYLDE Handbags ((http://www.brandtrade99.com)) - (paypal payment)
PRADA Handbags ((http://www.brandtrade99.com)) - (paypal payment)
PRADA Purse
Valentnv Handbags ((http://www.brandtrade99.com)) - (paypal payment)
D&G Handbags
VERSACE Handbags
Lancel Handbags ((http://www.brandtrade99.com)) - (paypal paymen

```
From -1422863244569O7620
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 17 Jul 2010 06:17:34 -0500
```

Date: Sat, 17 Jul 2010 12:17:34 +0100
From: highlandham <rfburns@nospam.com>
User-Agent: Thunderbird 2.0.0.22 (X11/20090825)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: direct conversion receiver Question
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
<88a2d$4c3b7e54$45013905$4086@KNOLOGY.NET> <%JQ_n.11367$Hw.6710@newsfe10.iad>
In-Reply-To: <%JQ_n.11367$Hw.6710@newsfe10.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <y6-dnaRCiK3SDNzRnZ2dnUVZ8oSdnZ2d@pipex.net>
Lines: 18
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.110.216.108
X-Trace: sv3-
AHwqtVt2zbGv3gFTRxTQtjIkPRtK9bhQ1dNI3zyefcJQZloFNvxAN0pFOW81LNrafxSgbpTumNZXrp3!
ORlxcK4yvugKaS6wRjJpYPV20GeMBWokV6vxkVl9tvM0MjGKjj3g+ZqV0Z0zO1Oe9e2K8p6gaJms!
VvrSD+fAZyvOwkGO0qq8uGMdoJo=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3626

Graeme Zimmer wrote:
> Hello Mike,
>
> If you Google on "Synchronous AM Detector" and "Exalted Carrier Reception"
> you'll find lots of info
>
> This is good place to start....
> http://www.radio-electronics.com/info/receivers/synchdet/sync_det.php
>
>
> Regards .... Zim
>
>
==
Tnx for the above reference ....excellent url
I have bookmarked it

Frank   GM0CSZ / KN6WH

From 5115856666132412576
X-Google-Thread: fc2a5,803cfc9fa3eefd53,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!

```
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: HP54100A gift
Date: Sat, 17 Jul 2010 14:23:09 -0400
Organization: A noiseless patient Spider
Lines: 7
Message-ID: <i1ssej$e26$1@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 17 Jul 2010 18:23:15 +0000 (UTC)
Injection-Info: mx01.eternal-september.org; posting-host="JeIHbLymDfIJ0dwn5Hdmfg";
     logging-data="14406"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/ZcCm/3NObDBoRIs2bPLs1420wnL6UVQk="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.1.9) Gecko/20100423
Thunderbird/3.0.4
Cancel-Lock: sha1:12BA5KOkThV/jAm2bVunJg/04cY=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3627
```

I was given a used HP54100A scope. It seems to work, but I'm still
trying to figure out how to use it. Seems to be able to display and
measure frequency output of my grid dip meter up to 200MHz, I think this
unit is good to 300-500MHz? Anybody ever use one of these before? Also
I only have the 50 ohm input modules, I understand a 1Meg ohm input can
be had with the 54003A, any ideas what those would cost?
(I think this scope was made up until the late '80's or early '90's.

```
From 6276179796937402415
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q22g2000yqm.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: direct conversion receiver Question
Date: Sat, 17 Jul 2010 13:46:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <cb706077-a25b-4808-9154-62ccfd92ca47@q22g2000yqm.googlegroups.com>
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
<88a2d$4c3b7e54$45013905$4086@KNOLOGY.NET>
     <%JQ_n.11367$Hw.6710@newsfe10.iad> <y6-
dnaRCiK3SDNzRnZ2dnUVZ8oSdnZ2d@pipex.net>
NNTP-Posting-Host: 99.89.76.145
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1279399577 18790 127.0.0.1 (17 Jul 2010 20:46:17 GMT)
X-Complaints-To: groups-abuse@google.com
```

NNTP-Posting-Date: Sat, 17 Jul 2010 20:46:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q22g2000yqm.googlegroups.com; posting-host=99.89.76.145;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
rv:1.8.1.24pre) Gecko/20100228 K-Meleon/1.5.4,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3628

Hey OM

This thread begs the questions:
What about SSB and CW? Would syncro conversion detect just the upper
sideband?
Because the lower sideband would be below ZERO hertz?
If you use a BFO how do you get below ZERO hertz?
Doesn't the Fourier transformation of the mixers' LO and rf input in
a syncro conversion produce frequencies below ZERO?

73 OM
de n8zu

On Jul 17, 7:17 am, highlandham <rfbu...@nospam.com> wrote:
> Graeme Zimmer wrote:
> > Hello Mike,

>
> > If you Google on "Synchronous AM Detector" and "Exalted Carrier Reception"
> > you'll find lots of info
>
> > This is good place to start....
> >http://www.radio-electronics.com/info/receivers/synchdet/sync_det.php
>
> > Regards .... Zim
>
> ==
> Tnx for the above reference ....excellent url
> I have bookmarked it
>
> Frank   GM0CSZ / KN6WH

From 5286140467981492293
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe12.iad.POSTED!6ec25d62!not-for-mail
From: "Graeme Zimmer" <gzimmer@wideband.net.au>

Newsgroups: rec.radio.amateur.homebrew
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
<88a2d$4c3b7e54$45013905$4086@KNOLOGY.NET> <%JQ_n.11367$Hw.6710@newsfe10.iad> <y6-dnaRCiK3SDNzRnZ2dnUVZ8oSdnZ2d@pipex.net> <cb706077-a25b-4808-9154-62ccfd92ca47@q22g2000yqm.googlegroups.com>
Subject: Re: direct conversion receiver Question
Lines: 14
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
Message-ID: <n9w0o.19895$lS1.2167@newsfe12.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Sun, 18 Jul 2010 05:19:15 UTC
Organization: TeraNews.com
Date: Sun, 18 Jul 2010 15:19:10 +1000
Xref: g2news1.google.com rec.radio.amateur.homebrew:3629

> What about SSB and CW? Would syncro conversion detect just the upper
> sideband?

No. You can select either sideband.
Just change the sign when you combine the I and Q signals.

this is a fairly simple intro.
www.nxp.com/acrobat_download2/applicationnotes/AN1981.pdf

.... Zim

From -3259160480028113817
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!feeder.erje.net!feeder.news-service.com!newsfeed.xs4all.nl!newsfeed5.news.xs4all.nl!xs4all!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: direct conversion receiver Question
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
 <88a2d$4c3b7e54$45013905$4086@KNOLOGY.NET>
 <%JQ_n.11367$Hw.6710@newsfe10.iad>
 <y6-dnaRCiK3SDNzRnZ2dnUVZ8oSdnZ2d@pipex.net>
 <cb706077-a25b-4808-9154-62ccfd92ca47@q22g2000yqm.googlegroups.com>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

```
Content-Transfer-Encoding: 7bit
Message-ID: <slrni45i20.p7f.nomail@xs8.xs4all.nl>
Date: 18 Jul 2010 09:24:16 GMT
Lines: 21
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1279445056 news.xs4all.nl 22942 [::ffff:194.109.21.8]:44721
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:3631

raypsi <rborowiak@gmail.com> wrote:
> Hey OM
>
> This thread begs the questions:
> What about SSB and CW? Would syncro conversion detect just the upper
> sideband?

It is not possible to use synchronous detection with SSB or CW because
there is no carrier in the signal.  So the circuit that recovers the
carrier will work on the modulation and the result is unusable.
(i.e. no audible modulation with SSB, and at best a 0Hz tone with CW)

>  Because the lower sideband would be below ZERO hertz?
> If you use a BFO how do you get below ZERO hertz?
> Doesn't the Fourier transformation of the mixers' LO and  rf input in
> a syncro conversion produce frequencies below ZERO?

There are no frequencies below zero.  When you are using only a single
mixer, both sidebands will produce frequencies above zero.  And there
will be no suppression of the "unwanted" sideband.
(the synchronous AM detector is a dual-sideband detector)


From 929164732842576l3
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!d8g2000yqf.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: direct conversion receiver Question
Date: Sun, 18 Jul 2010 22:11:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 25
Message-ID: <ff3ffd97-07f8-42ca-8739-14698967d99b@d8g2000yqf.googlegroups.com>
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
<88a2d$4c3b7e54$45013905$4086@KNOLOGY.NET>
     <%JQ_n.11367$Hw.6710@newsfe10.iad> <y6-
dnaRCiK3SDNzRnZ2dnUVZ8oSdnZ2d@pipex.net>
     <cb706077-a25b-4808-9154-62ccfd92ca47@q22g2000yqm.googlegroups.com>
     <slrni45i20.p7f.nomail@xs8.xs4all.nl>
NNTP-Posting-Host: 99.89.76.145
```

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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1279516288 17563 127.0.0.1 (19 Jul 2010 05:11:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Jul 2010 05:11:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d8g2000yqf.googlegroups.com; posting-host=99.89.76.145;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.80 (Windows NT 5.1; U; en) Presto/2.6.30
     Version/10.60,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3632
```

Hey OM:

I beg to differ there are frequencies below ZERO hertz you are just
not aware of them.

Simply put the frequencies add and subtract, towit below ZERO. When
mixing frequencies they add and subtract there is no doubt about it.
So it must be for all cases.

If I take 2 frequencies and mix them I get the Sum and the Difference
of those frequencies plus the original frequencies. NO?

Tell me this is wrong?

Because that is what you have just told me?

73 OM
de n8zu

>
> There are no frequencies below zero. =A0When you are using only a single
> mixer, both sidebands will produce frequencies above zero. =A0And there
> will be no suppression of the "unwanted" sideband.
> (the synchronous AM detector is a dual-sideband detector)

```
From -7591197272231694677
X-Google-Thread: fc2a5,9027c64aab204141,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!x2g2000prk.googlegroups.com!not-for-
mail
From: BASS <dalermehandi9247@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT&EXCLUSIVE PHOTOS&VIDEOS
Date: Mon, 19 Jul 2010 00:04:19 -0700 (PDT)
Organization: http://groups.google.com
```

```
Lines: 22
Message-ID: <ff7d27d8-7f5d-4569-bc87-aea8467bd10b@x2g2000prk.googlegroups.com>
NNTP-Posting-Host: 117.199.253.20
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1279523059 12588 127.0.0.1 (19 Jul 2010 07:04:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Jul 2010 07:04:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x2g2000prk.googlegroups.com; posting-host=117.199.253.20;
     posting-account=ChMvegkAAADX5lcnTEWruk43MP3_cJY6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.6)
     Gecko/20100625 Firefox/3.6.6,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3633

HOT HEROINES PHOTOS

http://hotheroinesphoto.blogspot.com/
SEXY SNEHA

http://hotheroinesphoto.blogspot.com/2010/06/sneha-hot.html
KOUSHA HOT EXPOSING

http://hotheroinesphoto.blogspot.com/2010/06/sexy-kousha.html
PRIYAMANI IN HOT BIKINI

http://hotheroinesphoto.blogspot.com/2010/06/priyamani-hot.html
MADHUSHALINI IN HOT DRESS

http://hotheroinesphoto.blogspot.com/2010/06/blog-post_2972.html
HOTTEST LIPKISS

http://hotheroinesphoto.blogspot.com/2010/06/lipkiss-2.html
NAMITHA IN BATH

http://hotheroinesphoto.blogspot.com/2010/06/nayagarala-namitha.html
http://hotheroinesphoto.blogspot.com/2010/06/nayagarala-namitha.html


From 286944254452186067
X-Google-Thread: fc2a5,c403fe3aadc20f34,start
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,c403fe3aadc20f34,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!x24g2000pro.googlegroups.com!not-for-
mail
From: "www.brandtrade10.com" <kissgoodbye5204@yahoo.com.cn>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: Discount cheapsale LRG Jeans <free shipping paypal payment>
Date: Mon, 19 Jul 2010 00:09:51 -0700 (PDT)
```

```
Organization: http://groups.google.com
Lines: 24
Message-ID: <dbe831c0-0a24-4c51-b1eb-932f8bd2490b@x24g2000pro.googlegroups.com>
NNTP-Posting-Host: 120.40.149.117
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1279523392 15387 127.0.0.1 (19 Jul 2010 07:09:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Jul 2010 07:09:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x24g2000pro.googlegroups.com; posting-host=120.40.149.117;
     posting-account=8ZQzvAoAAACx0D0GopdrMsdXAHn1vXYl
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3634
rec.puzzles.crosswords:8017

Discount cheapsale Coogi Jeans
Discount cheapsale Crown Holder Jeans
Discount cheapsale D&G Jeans http://www.brandtrade99.com
Discount cheapsale Diesel Jeans
Discount cheapsale ECKO Jeans http://www.brandtrade99.com
Discount cheapsale ED Hardy Jeans
Discount cheapsale Evisu Jeans
Discount cheapsale G-STAR Jeans <free shipping paypal payment>
Discount cheapsale GUCCI Jeans
Discount cheapsale Iceberg Jeans
Discount cheapsale Kanji Jeans http://www.brandtrade99.com
Discount cheapsale Laguna Beach Jeans
Discount cheapsale Levi s Jeans
Discount cheapsale LRG Jeans <free shipping paypal payment>
Discount cheapsale LV Jeans
Discount cheapsale Prada Jeans http://www.brandtrade99.com
Discount cheapsale RMC Jeans
Discount cheapsale Roca Wear Jeans <free shipping paypal payment>
Discount cheapsale Rock&Republic Jeans
Discount cheapsale True Religion Jeans
Discount cheapsale Versace Jeans http://www.brandtrade99.com
Discount cheapsale ZEN Jeans<free shipping paypal payment>
website: http://www.brandtrade99.com



From -9204185204172354592
X-Google-Thread: fc2a5,d8bb60d3bbedb1ef,start
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,d8bb60d3bbedb1ef,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!u4g2000prn.googlegroups.com!not-for-
mail
```

From: "www.brandtrade10.com" <kissgoodbye5204@yahoo.com.cn>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: Cheap sale MONT BLANC goggle
Date: Mon, 19 Jul 2010 00:11:07 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <0a200a9a-fe5c-4e9d-b2fa-53fcaf965673@u4g2000prn.googlegroups.com>
NNTP-Posting-Host: 120.40.149.117
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1279523467 16057 127.0.0.1 (19 Jul 2010 07:11:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Jul 2010 07:11:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u4g2000prn.googlegroups.com; posting-host=120.40.149.117;
posting-account=8ZQzvAoAAACx0D0GopdrMsdXAHn1vXYl
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
Trident/4.0; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3635
rec.puzzles.crosswords:8018

Cheap sale NIKE Sunglass (paypal payment http://www.brandtrade99.com)
Cheap sale Oakley Sunglass
Cheap sale POLICE Sunglass (paypal payment http://www.brandtrade99.com)
Cheap sale PRADA Sunglass
Cheap sale Ray.Ban Sunglass
Cheap sale ROBERTO CAVALLI Sunglass (paypal payment http://www.brandtrade99.com)
Cheap sale Salvatore Sunglass
Cheap sale VERSACE Sunglass
Cheap sale YSL Sunglass
goggle:
(paypal payment http://www.brandtrade99.com)(http://www.brandtrade99.com
free
shipping)
Cheap sale Armani goggle
Cheap sale Catier goggle
Cheap sale Chanel goggle (http://www.brandtrade99.com free
shipping)
Cheap sale D&G goggle (paypal payment http://www.brandtrade99.com)
Cheap sale DIOR goggle
Cheap sale FENDI goggle
Cheap sale FERRE goggle (http://www.brandtrade99.com free shipping)
Cheap sale FRED goggle
Cheap sale GUCCI goggle (paypal payment http://www.brandtrade99.com)
Cheap sale LV goggle
Cheap sale MONT BLANC goggle
Cheap sale NIKE goggle
Cheap sale Oakley goggle (http://www.brandtrade99.com free
shipping)
Cheap sale POLICE goggle
Cheap sale PRADA goggle (paypal payment http://www.brandtrade99.com)
Cheap sale PUMA goggle

```
Cheap sale RAY.BAN goggle
Cheap sale VERSACE goggle  (paypal payment http://www.brandtrade99.com)


From -3173660690162483125
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe13.iad.POSTED!6ec25d62!not-for-mail
From: "Graeme Zimmer" <gzimmer@wideband.net.au>
Newsgroups: rec.radio.amateur.homebrew
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
<88a2d$4c3b7e54$45013905$4086@KNOLOGY.NET> <%JQ_n.11367$Hw.6710@newsfe10.iad> <y6-
dnaRCiK3SDNzRnZ2dnUVZ8oSdnZ2d@pipex.net> <cb706077-
a25b-4808-9154-62ccfd92ca47@q22g2000yqm.googlegroups.com>
<slrni45i20.p7f.nomail@xs8.xs4all.nl>
<ff3ffd97-07f8-42ca-8739-14698967d99b@d8g2000yqf.googlegroups.com>
Subject: Re: direct conversion receiver Question
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
Message-ID: <pAT0o.11848$KT3.2816@newsfe13.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Mon, 19 Jul 2010 07:58:13 UTC
Organization: TeraNews.com
Date: Mon, 19 Jul 2010 17:58:07 +1000
Xref: g2news1.google.com rec.radio.amateur.homebrew:3636

> the synchronous AM detector is a dual-sideband detector

Some are, some aren't.

My Sony ICF-SW7600GR lets you select sidebands while in Synchro mode,
as does my homebrew DSP RX.

Selecting sideband in AM mode is most useful.

.................... Zim




From -9644788327327226722
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news1.google.com!news4.google.com!feeder2.cambriumusenet.nl!
feeder1.cambriumusenet.nl!feed.tweaknews.nl!193.201.147.71.MISMATCH!xlned.com!
feeder3.xlned.com!feeder.news-service.com!newsfeed.xs4all.nl!
newsfeed5.news.xs4all.nl!xs4all!newsgate.cistron.nl!newsgate.news.xs4all.nl!
post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: direct conversion receiver Question
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
 <88a2d$4c3b7e54$45013905$4086@KNOLOGY.NET>
 <%JQ_n.11367$Hw.6710@newsfe10.iad>
 <y6-dnaRCiK3SDNzRnZ2dnUVZ8oSdnZ2d@pipex.net>
 <cb706077-a25b-4808-9154-62ccfd92ca47@q22g2000yqm.googlegroups.com>
 <slrni45i20.p7f.nomail@xs8.xs4all.nl>
 <ff3ffd97-07f8-42ca-8739-14698967d99b@d8g2000yqf.googlegroups.com>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrni481gs.3oj.nomail@xs8.xs4all.nl>
Date: 19 Jul 2010 08:00:28 GMT
Lines: 11
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1279526428 news.xs4all.nl 22916 [::ffff:194.109.21.8]:39607
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:3637

raypsi <rborowiak@gmail.com> wrote:
> Hey OM:
>
> I beg to differ there are frequencies below ZERO hertz you are just
> not aware of them.

Because the "frequencies below zero" will come out of a single mixer
as equal frequencies above zero.  Only the phase is different.  So
when you use two mixers and quadrature signals, it is possible to
select a sideband.  But with a single mixer and synchronous detection,
this is not possible.


From -3593147488972945389
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!newsfeed.xs4all.nl!newsfeed6.news.xs4all.nl!xs4all!
post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: direct conversion receiver Question
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
```

```
 <88a2d$4c3b7e54$45013905$4086@KNOLOGY.NET>
 <%JQ_n.11367$Hw.6710@newsfe10.iad>
 <y6-dnaRCiK3SDNzRnZ2dnUVZ8oSdnZ2d@pipex.net>
 <cb706077-a25b-4808-9154-62ccfd92ca47@q22g2000yqm.googlegroups.com>
 <slrni45i20.p7f.nomail@xs8.xs4all.nl>
 <ff3ffd97-07f8-42ca-8739-14698967d99b@d8g2000yqf.googlegroups.com>
 <pAT0o.11848$KT3.2816@newsfe13.iad>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrni481v3.3oj.nomail@xs8.xs4all.nl>
Date: 19 Jul 2010 08:08:03 GMT
Lines: 14
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1279526883 news.xs4all.nl 22916 [::ffff:194.109.21.8]:39607
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:3638

Graeme Zimmer <gzimmer@wideband.net.au> wrote:
>> the synchronous AM detector is a dual-sideband detector
>
> Some are, some aren't.
>
> My Sony ICF-SW7600GR lets you select sidebands while in Synchro mode,
> as does my homebrew DSP RX.
>
> Selecting sideband in AM mode is most useful.

Ok it can be done but not with the circuit described in this thread
and on the referenced site.

You need two mixers and 90deg phase shifts to do it.


From -1275107721120246976
X-Google-Thread: fc2a5,1b00b416eef2b819,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m17g2000prl.googlegroups.com!not-for-
mail
From: watches0888 <replicaky@yeah.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Quality Chopard  Replica Watches for you
Date: Mon, 19 Jul 2010 02:22:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 21
Message-ID: <f2ea1a58-e245-41d0-8993-4ef6e48e8f21@m17g2000prl.googlegroups.com>
NNTP-Posting-Host: 124.137.27.138
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1279531325 11058 127.0.0.1 (19 Jul 2010 09:22:05 GMT)
```

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Jul 2010 09:22:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m17g2000prl.googlegroups.com; posting-host=124.137.27.138;
     posting-account=Kti7cAoAAADAMR7s4raMvyEIkqt13qkP
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; zh-CN; rv:1.9.2.7)
     Gecko/20100701 Firefox/3.6.7,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3639

We are wholesaler of Watches in China. We are big Watches Manufacturer
in China. We wholesale Watches Rolex, we can offer series of brand
Watches with the lowest price and high quality,
Our feature are
1) Good materials
2) Excellent service
3) Factory price
4) Good quality
5) No limit of min order quantity.
6) Safe payment (paypal, T/T, WU, Moneygram)
7)Fast and safe shipment and good policy ???Shipping day: 5-7 days???
8)Much discount than others
9)No min order u can buy only one and we ship door to door.
10)Faithful and reputation
We are looking forward to cooperating with old and new customers.
Please contact us at any time and kindly visit our products catalog
<a href="http://www.watchestar.com/">replica Montblanc watch fake</a>|
<a href="http://www.watchestar.com/sitemap.aspx">replica watch fake</
a>|<a href="http://www.watchestar.com/sitemap.aspx">replica watches
watch fake</a>|<a href="http://www.watchestar.com/
sitemap.aspx">replica wrist watches fake</a>



From -544941020160135868
X-Google-Thread: 109125,88efbc1cf9e94874,start
X-Google-NewGroupId: yes
X-Google-Thread: 1027f0,88efbc1cf9e94874,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,88efbc1cf9e94874,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid5c019a59a0,gidf42d3319d3,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s24g2000pri.googlegroups.com!not-for-
mail
From: xiang chen <chenxaing87@gmail.com>
Newsgroups: rec.games.backgammon,rec.autos.makers.honda,rec.radio.amateur.homebrew
Subject: Yves Saint Laurent china supplier (http://www.cntrade09.com)
Date: Mon, 19 Jul 2010 05:42:41 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <84f70c02-eecd-45a4-ae8a-1e5274e3539d@s24g2000pri.googlegroups.com>
NNTP-Posting-Host: 112.111.187.195
```

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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1279543361 29228 127.0.0.1 (19 Jul 2010 12:42:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Jul 2010 12:42:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s24g2000pri.googlegroups.com; posting-host=112.111.187.195;
     posting-account=SFec6AoAAADfZV3p1B-Zl3FMJxiKsxgB
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     CIBA; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe)
Xref: g2news1.google.com rec.games.backgammon:5073 rec.autos.makers.honda:6770
rec.radio.amateur.homebrew:3640

Christian Dior Bags  china supplier (http://www.cntrade09.com)
Jimmy Choo Bags   china supplier (http://www.cntrade09.com)
Marc Jacobs Bags   china supplier (http://www.cntrade09.com)
Burberry Bags   china supplier (http://www.cntrade09.com)
Dolce & Gabbana  china supplier (http://www.cntrade09.com)
Coach Bags china supplier (http://www.cntrade09.com)
Yves Saint Laurent china supplier (http://www.cntrade09.com)
Bottega Veneta  china supplier (http://www.cntrade09.com)
Bally Bags   china supplier (http://www.cntrade09.com)
Juicy Couture Bags   china supplier (http://www.cntrade09.com)
Isabella Fiore Bags   china supplier (http://www.cntrade09.com)
Tod's Bags   http://www.cntrade09.com
Loewe Bags  china supplier (http://www.cntrade09.com)
Goyard Bags  china supplier (http://www.cntrade09.com)
Anya Hindmarch china supplier (http://www.cntrade09.com)
Thomaswylde Bags china supplier (http://www.cntrade09.com)


From 797150585804978587
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z10g2000yqb.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: direct conversion receiver Question
Date: Tue, 20 Jul 2010 02:09:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 24
Message-ID: <1faee386-5fd9-4711-8382-981270cde3f2@z10g2000yqb.googlegroups.com>
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
<88a2d$4c3b7e54$45013905$4086@KNOLOGY.NET>
     <%JQ_n.11367$Hw.6710@newsfe10.iad> <y6-
dnaRCiK3SDNzRnZ2dnUVZ8oSdnZ2d@pipex.net>
     <cb706077-a25b-4808-9154-62ccfd92ca47@q22g2000yqm.googlegroups.com>
     <slrni45i20.p7f.nomail@xs8.xs4all.nl>
<ff3ffd97-07f8-42ca-8739-14698967d99b@d8g2000yqf.googlegroups.com>
```

     <slrni481gs.3oj.nomail@xs8.xs4all.nl>
NNTP-Posting-Host: 99.89.76.145
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1279616970 20848 127.0.0.1 (20 Jul 2010 09:09:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 20 Jul 2010 09:09:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z10g2000yqb.googlegroups.com; posting-host=99.89.76.145;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
     rv:1.8.1.24pre) Gecko/20100228 K-Meleon/1.5.4,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3642

Hey OM:

The ole TV systems that used NTSC type signals, the video is Vestigial
Sideband.
So if what you say is TRUE then I never ever would have seen anything
on an NTSC tv but the low frequencies that are present in NTSC signal
part of the lower sideband.
All the now defunked, latest NTSC tv's used synchro' detection on the
Vistigial Sidband video.

 I made a living repairing those old NTSC tv's that had synchro'
detection of the Vestigial Sideband video.

73 OM
de n8zu

On Jul 19, 4:00 am, Rob <nom...@example.com> wrote:
> But with a single mixer and synchronous detection,
> this is not possible.

From 9084620932208388932
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
newsfeed.xs4all.nl!newsfeed5.news.xs4all.nl!xs4all!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: direct conversion receiver Question
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>

<88a2d$4c3b7e54$45013905$4086@KNOLOGY.NET>
<%JQ_n.11367$Hw.6710@newsfe10.iad>
<y6-dnaRCiK3SDNzRnZ2dnUVZ8oSdnZ2d@pipex.net>
<cb706077-a25b-4808-9154-62ccfd92ca47@q22g2000yqm.googlegroups.com>
<slrni45i20.p7f.nomail@xs8.xs4all.nl>
<ff3ffd97-07f8-42ca-8739-14698967d99b@d8g2000yqf.googlegroups.com>
<slrni481gs.3oj.nomail@xs8.xs4all.nl>
<1faee386-5fd9-4711-8382-981270cde3f2@z10g2000yqb.googlegroups.com>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrni4arm4.qse.nomail@xs8.xs4all.nl>
Date: 20 Jul 2010 09:39:16 GMT
Lines: 22
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1279618756 news.xs4all.nl 22944 [::ffff:194.109.21.8]:43627
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:3643

raypsi <rborowiak@gmail.com> wrote:
> Hey OM:
>
> The ole TV systems that used NTSC type signals, the video is Vestigial
> Sideband.
> So if what you say is TRUE then I never ever would have seen anything
> on an NTSC tv but the low frequencies that are present in NTSC signal
> part of the lower sideband.
> All the now defunked, latest NTSC tv's used synchro' detection on the
> Vistigial Sidband video.

In those TVs, the selection of the sideband is not done by the detector
but by an IF filter that passes only the frequencies of interest.

I did not say the synchronous detector cannot demodulate a single sideband,
I said it cannot select the sideband. So if you pass both sidebands
to the detector, it will demodulate both of them. Unless you use a
quadrature approach.

(and it cannot demodulate SSB because there is no carrier. in TV VSB
there is a carrier present that can be used to control the synchronous
detector)

From -5534992407200370020
X-Google-Thread: fc2a5,212ee18351de0d1d,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!b4g2000pra.googlegroups.com!not-for-mail
From: Stuart Longland VK4MSL <me@vk4msl.yi.org>
Newsgroups: rec.radio.amateur.homebrew

Subject: DDS/SDR Transceiver Ideas
Date: Sat, 24 Jul 2010 01:48:40 -0700 (PDT)
Organization: http://groups.google.com
Lines: 97
Message-ID: <78790204-4d4e-4d26-829b-54ecb3cd9a25@b4g2000pra.googlegroups.com>
NNTP-Posting-Host: 203.94.56.252
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1279961321 27741 127.0.0.1 (24 Jul 2010 08:48:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 24 Jul 2010 08:48:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b4g2000pra.googlegroups.com; posting-host=203.94.56.252;
    posting-account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
X-HTTP-Via: 1.1 www.longlandclan.yi.org (squid/3.0.STABLE19)
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux mips64; en-US; rv:1.9.0.11)
    Gecko/2009061212 Iceweasel/3.0.9 (Debian-3.0.9-1),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3645

Hi all...

About 6 months ago we had a storm that blew up my FT-897D transceiver... In short it cooked the microphone circuitry and one of the DDS chips (the one that does carrier sidetone) but miraculously, the finals still seem okay as a strong unmodulated carrier is still produced when attempting to transmit FM.

The set has been replaced on insurance, but I'm looking at the old one as a source of parts for a possible homebrew transceiver project. The plan is to recycle this set, using the remaining good parts and design a new radio using the existing chassis. Why completely DIY? Most SDR kits seem to be made of unobtainium from my prospective ... highly expensive and/or not available directly in this country (which means lots of running around financially... I don't have PayPal or a credit card, and refuse to get either).

At present, I've been looking at the BeagleBoard[1] which is a small embedded Linux computer, measuring 3" square. It incorporates a 600MHz TI OMAP CPU with integrated DSP, apparently the latter is capable of processing HD video, so I'd imagine SDR would not be a particularly demanding task. Minikits also sell a DDS kit[2] which I'm thinking of utilising in the frontend to act as an I/Q upconverter/ downconverter.

In receive, the signal would be downconverted to some low IF in the range of the onboard audio CODEC, then that demodulated by the onboard DSP and passed out to a headset (either wired to the CODEC, or maybe USB audio). On transmit, the incoming audio would get baseband-modulated by the DSP, then upconverted.

The exact specifics are still on the drawing board (quite literally), but I'm curious about a few things...

Speaking with Minikits, there was a remark made that mixer's apparently like square wave inputs... I was initially planning that the output from any DDS would have to be passed through a suitable PLL to clean it up and come out with a nice sine. I'm not doubting there's possible wisdom in this other approach, just having trouble understanding how it works in theory, as I understand square waves to be very rich in harmonics, and therefore would surely cause undesirable behaviour in a product detector or AM modulator...

In the future I'll probably use a proper ADC and DAC as the RF input and output to the DSP, but this is pending me figuring out a good way to produce PCBs with the fine trackwork required and means of soldering such small components (the oven here only goes to 250=B0C). Hence why the initial phase will probably use the existing audio CODEC (which should be good for 48kHz sample rates).

One characteristic of such devices however; is aliasing... on the ADC, such a filter is usually intended to select the 0-=BDFs frequency range... and on the DAC, a reconstruction filter does likewise. I'm wondering whether this aliasling phenoma couldn't be used to sample the spectrum in =BDFs Hz chunks using band-pass filters tuned at some harmonic of Fs? Likewise for the DAC, its output apparently contains duplicate replicas of the baseband signal... has anyone tried using a reconstruction filter tuned at a harmonic of Fs to select one of these images?

As for the upconverter/downconverter... the thing that concerns me is image rejection. Most of the DDS chips quite easily handle 0-30MHz, and so there I'll probably do it direct-conversion into the CODEC or ADC. However, for 6m, 2m, and 70cm... if the DDS goes up to 30MHz, then it seems the sensible thing to do is to use an IF to downconvert that to the 0-30MHz range. One of the DDS kits I'm looking at uses a 100MHz clock, so it seems sensible to use that to generate the IF frequencies as well... The dillema is whether to use sideband cancellation (Hartley modulator) or to use band-pass filters?

IF frequencies: starting at 100MHz, I can divide that by two, then triple to get 150MHz (for 2m IF) and triple again to get 450MHz IF (for 70cm and UHF CB). For 6m, I simply take the 50MHz divided source, and divide by two again to get 25MHz.

From there:
50-54MHz: IF at 25MHz... tune the DDS between 25~29 MHz, use a 50MHz high-pass filter on input to receiver to reject <25MHz image
144-148MHz: IF at 150MHz... tune the DDS between 2~6 MHz, use a 150MHz low-pass filter on input to receiver to reject >150MHz image (might be a bit tight)
420-450MHz: IF at 450MHz... tune DDS between 0-30MHz, use 450MHz low-pass filter to reject >450MHz image (probably much too tight)
476-478MHz: IF at 450MHz... tune DDS between 26~28 MHz, use 450MHz high-pass filter to reject <450MHz image

The two dilemmas I face here:
- If I use the conventional method, how does one go about desigining
the filters with the cutoff required? Some of them are quite tight.
I might have to re-think the IF frequencies for a couple... but I'd be
interested to know how others achieve this.
- The alternative is to use sideband cancellation to select the 30MHz
above or below the IF. This will require a Hilbert transform filter
with quite a wide bandwidth... Is this doable or sane?

Regards,
Stuart Longland (VK4MSL)

```
From 3205634125062723733
X-Google-Thread: fc2a5,212ee18351de0d1d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!i19g2000pro.googlegroups.com!not-for-
mail
From: Stuart Longland VK4MSL <me@vk4msl.yi.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS/SDR Transceiver Ideas
Date: Sat, 24 Jul 2010 01:52:44 -0700 (PDT)
Organization: http://groups.google.com
Lines: 15
Message-ID: <5235defc-290a-4e98-a854-e8347afd9c0d@i19g2000pro.googlegroups.com>
References: <78790204-4d4e-4d26-829b-54ecb3cd9a25@b4g2000pra.googlegroups.com>
NNTP-Posting-Host: 203.94.56.252
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1279961565 28588 127.0.0.1 (24 Jul 2010 08:52:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 24 Jul 2010 08:52:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i19g2000pro.googlegroups.com; posting-host=203.94.56.252;
     posting-account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
X-HTTP-Via: 1.1 www.longlandclan.yi.org (squid/3.0.STABLE19)
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux mips64; en-US; rv:1.9.0.11)
     Gecko/2009061212 Iceweasel/3.0.9 (Debian-3.0.9-1),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3646
```

Gah... forgot to put the footnotes in!

On Jul 24, 6:48=A0pm, Stuart Longland VK4MSL <m...@vk4msl.yi.org> wrote:
> At present, I've been looking at the BeagleBoard[1] which is a small
> embedded Linux computer, measuring 3" square. =A0It incorporates a
> 600MHz TI OMAP CPU with integrated DSP, apparently the latter is
> capable of processing HD video, so I'd imagine SDR would not be a
> particularly demanding task. =A0Minikits also sell a DDS kit[2] which

> I'm thinking of utilising in the frontend to act as an I/Q upconverter/
> downconverter.

1. http://www.beagleboard.org/
2. http://www.minikits.com.au/Kits5.htm#eme165 (And yes, I know
there's a PIC controller for it... but I think the board in [1] will
do a lot more for me ;-)

From -4151283393519110458
X-Google-Thread: fc2a5,212ee18351de0d1d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 24 Jul 2010 07:24:56 -0500
Date: Sat, 24 Jul 2010 07:25:26 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.7) Gecko/
20100713 Thunderbird/3.1.1
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS/SDR Transceiver Ideas
References: <78790204-4d4e-4d26-829b-54ecb3cd9a25@b4g2000pra.googlegroups.com>
In-Reply-To: <78790204-4d4e-4d26-829b-54ecb3cd9a25@b4g2000pra.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Message-ID: <rvidneshVN8ERtfRnZ2dnUVZ_oudnZ2d@giganews.com>
Lines: 109
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-CRqCuXV8gmv/
4oXVTqEo6gHYEABaMGOxp+CUAov+TKun+Odkbyu+xqCckEc23TFdl4iAbmuy8yzqxw6!
luHHWNd4GETCQNWVD7wUGoBStn0+uusIxAgbnCnhpH/5Tr/JdRkxfS1lAZj9PE6k5cUyw5nfncE=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3647

On 7/24/2010 3:48 AM, Stuart Longland VK4MSL wrote:
> Hi all...
>
> About 6 months ago we had a storm that blew up my FT-897D
> transceiver... In short it cooked the microphone circuitry and one of
> the DDS chips (the one that does carrier sidetone) but miraculously,
> the finals still seem okay as a strong unmodulated carrier is still
> produced when attempting to transmit FM.
>

> The set has been replaced on insurance, but I'm looking at the old one
> as a source of parts for a possible homebrew transceiver project. The
> plan is to recycle this set, using the remaining good parts and design
> a new radio using the existing chassis. Why completely DIY? Most SDR
> kits seem to be made of unobtainium from my prospective ... highly
> expensive and/or not available directly in this country (which means
> lots of running around financially... I don't have PayPal or a credit
> card, and refuse to get either).
>
> At present, I've been looking at the BeagleBoard[1] which is a small
> embedded Linux computer, measuring 3" square. It incorporates a
> 600MHz TI OMAP CPU with integrated DSP, apparently the latter is
> capable of processing HD video, so I'd imagine SDR would not be a
> particularly demanding task. Minikits also sell a DDS kit[2] which
> I'm thinking of utilising in the frontend to act as an I/Q upconverter/
> downconverter.
>
> In receive, the signal would be downconverted to some low IF in the
> range of the onboard audio CODEC, then that demodulated by the onboard
> DSP and passed out to a headset (either wired to the CODEC, or maybe
> USB audio). On transmit, the incoming audio would get baseband-
> modulated by the DSP, then upconverted.
>
> The exact specifics are still on the drawing board (quite literally),
> but I'm curious about a few things...
>
> Speaking with Minikits, there was a remark made that mixer's
> apparently like square wave inputs... I was initially planning that
> the output from any DDS would have to be passed through a suitable PLL
> to clean it up and come out with a nice sine. I'm not doubting
> there's possible wisdom in this other approach, just having trouble
> understanding how it works in theory, as I understand square waves to
> be very rich in harmonics, and therefore would surely cause
> undesirable behaviour in a product detector or AM modulator...
>
> In the future I'll probably use a proper ADC and DAC as the RF input
> and output to the DSP, but this is pending me figuring out a good way
> to produce PCBs with the fine trackwork required and means of
> soldering such small components (the oven here only goes to 250�C).
> Hence why the initial phase will probably use the existing audio CODEC
> (which should be good for 48kHz sample rates).
>
> One characteristic of such devices however; is aliasing... on the ADC,
> such a filter is usually intended to select the 0-�Fs frequency
> range... and on the DAC, a reconstruction filter does likewise. I'm
> wondering whether this aliasling phenoma couldn't be used to sample
> the spectrum in �Fs Hz chunks using band-pass filters tuned at some
> harmonic of Fs? Likewise for the DAC, its output apparently contains
> duplicate replicas of the baseband signal... has anyone tried using a
> reconstruction filter tuned at a harmonic of Fs to select one of these
> images?
>
> As for the upconverter/downconverter... the thing that concerns me is

> image rejection. Most of the DDS chips quite easily handle 0-30MHz,
> and so there I'll probably do it direct-conversion into the CODEC or
> ADC. However, for 6m, 2m, and 70cm... if the DDS goes up to 30MHz,
> then it seems the sensible thing to do is to use an IF to downconvert
> that to the 0-30MHz range. One of the DDS kits I'm looking at uses a
> 100MHz clock, so it seems sensible to use that to generate the IF
> frequencies as well... The dillema is whether to use sideband
> cancellation (Hartley modulator) or to use band-pass filters?
>
> IF frequencies: starting at 100MHz, I can divide that by two, then
> triple to get 150MHz (for 2m IF) and triple again to get 450MHz IF
> (for 70cm and UHF CB). For 6m, I simply take the 50MHz divided
> source, and divide by two again to get 25MHz.
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> high-pass filter on input to receiver to reject<25MHz image
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> low-pass filter on input to receiver to reject>150MHz image (might be
> a bit tight)
> 420-450MHz: IF at 450MHz... tune DDS between 0-30MHz, use 450MHz low-
> pass filter to reject>450MHz image (probably much too tight)
> 476-478MHz: IF at 450MHz... tune DDS between 26~28 MHz, use 450MHz
> high-pass filter to reject<450MHz image
>
> The two dilemmas I face here:
> - If I use the conventional method, how does one go about desigining
> the filters with the cutoff required? Some of them are quite tight.
> I might have to re-think the IF frequencies for a couple... but I'd be
> interested to know how others achieve this.
> - The alternative is to use sideband cancellation to select the 30MHz
> above or below the IF. This will require a Hilbert transform filter
> with quite a wide bandwidth... Is this doable or sane?
>
> Regards,
> Stuart Longland (VK4MSL)

I wish I could offer a few half-baked ideas to stoke up your imagination. But I have to admit, you are too close to the leading edge for me to offer anything constructive.   There are people out there who could offer some constructive ideas, but there aren't that many. And any more, I suspect some of those fellows use Japanese or Chinese as a first language.

How times change...

Brian W

From 9042114070911827271
X-Google-Thread: fc2a5,5655c00701861e6,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m35g2000prn.googlegroups.com!not-for-mail
From: The Eternal Squire <eternalsquire@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: I don't see much point to continuing this hobby... it's just not fun anymore.
Date: Sun, 25 Jul 2010 23:27:11 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <2194ca8b-4920-44ad-b6d4-b09afeb75440@m35g2000prn.googlegroups.com>
NNTP-Posting-Host: 72.47.9.244
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1280125631 14951 127.0.0.1 (26 Jul 2010 06:27:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 26 Jul 2010 06:27:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m35g2000prn.googlegroups.com; posting-host=72.47.9.244; posting-account=NGBBuwoAAACAVxFd0rmWzjv3rJTndRji
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; Trident/4.0; FunWebProducts; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR 3.0.30618; .NET4.0C),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3648

To whom it may concern,

I had been an electrical engineer and computer programmer who has now been jobless for five years now.

I find it extremely ironic that the very hobby which helped me escape from an abusive family is now a place where nobody really cares.

I hear it on the HF bands. On the low side, people are keying down left and right without even identifying themselves or even bothering to check if people are calling CQ first. On the high side, I hear lots of obscenities, lots of crude speech, and lots of Tea Party monologues.

CQ and 73 magazines have folded. There are very seldom any new building projects on QST. The USENET groups for ham radio are pretty much flooded with porn.

Where have all the people gone?

If there's anyone left who is interested: I have a 100 Mhz analogue scope, several antique signal generators, a circa 1950's analogue signal analyzer, an FT101EE transceiver, and about 50 pounds of electronic components and samples.

I'm ready to walk away from my hobby for $1000. I'm willing to do it now rather than wait for my family to attempt to conduct an estate sale for pennies on the dollar.

Anyone interested please contact me here and we'll exchange email
addresses.

The Eternal Squire

From -90088528205731496
X-Google-Thread: fc2a5,5655c00701861e6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
209.197.12.242.MISMATCH!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.249.MISMATCH!transit3.readnews.com!news-out.readnews.com!news-
xxxfer.readnews.com!news.misty.com!not-for-mail
From: "Geoffrey S. Mendelson" <gsm@mendelson.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I don't see much point to continuing this hobby... it's just
not fun anymore.
Date: Mon, 26 Jul 2010 09:19:04 +0000 (UTC)
Organization: MGT Consulting
Lines: 202
Message-ID: <slrni4qkno.r55.gsm@cable.mendelson.com>
References: <2194ca8b-4920-44ad-b6d4-b09afeb75440@m35g2000prn.googlegroups.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: dsl217-132-41-91.bb.netvision.net.il
X-Trace: max.inside.misty.com 1280135944 24658 217.132.41.91 (26 Jul 2010 09:19:04
GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Mon, 26 Jul 2010 09:19:04 +0000 (UTC)
User-Agent: slrn/pre1.0.0-11 (Linux)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3650

The Eternal Squire wrote:

> I find it extremely ironic that the very hobby which helped me escape
> from an abusive family is now a place where nobody really cares.

I think you may be coloring what you see with what you are used to.

Things have gotten worse over the years, but may not be that bad.

Unfortunately, there are two kinds of people in the word, makers and users.
Makers build things and really can't stop thinking about making things,
tweaking things, etc.

Most people don't build things but use them. Some understand how and why they
work, but most don't.

When I was a young child, (1960's) if you were interested in technology, you had to be interested in ham radio. I spent most of the 1960s reading two ARRL handbooks (one from the 1940's and one from the 1950's) over and over again, drooling over the ads, etc until they fell apart.

Unable to learn morse code, I gravitated twoard photography, which still had "the magic", but did not require anything except light, film and some chemicals. I made my first enlarger, developing trays and an (un)safelight.

By 1969 I had been exposed to computers and was working on them. Ham radio became a forgotten thing, although I had a shortwave radio from when I was about 12 or 13 when I found a portable radio that had been dropped and was in the trash. All of the plastic IF transformers had sheared off at the base, but they still were connected and it worked.

By 1971 when I graduated high school, everyone in the school had some exposure to computers. One high school (not mine) had a PDP-8, which the PTA bought (cost was close to a house then).

So the users moved away from radio twoard computers. It wasn't another 7 or 8 years before home computers started on the market, and by 1980 the makers could go into a computer store, buy parts and make a computer.

The Apple One started out as a bare board you could get the specs from at a club meeting.

You see it here in Israel, where there are tests for tech and general twice a year, and a Morse code test is still required for HF. The tech and general written are the same. The last written test was announced a week before it was given, and it was the same time as the final exams in every university.

So while there may have 10-15 prospective new hams only 5 or so could show up for the exams and not all passed.

On the other hand, you can go into any mall and walk out with a computer, almost day or night. No license, no exam, and a lot less money than even a cheap HT here. You can have a 15 megabit aDSL line in a day.

So unfortunately most of that talent has gone elsewhere and most of it will never come back.

:-(

The average age of hams everywhere is over 50, and it unfortunately is a dying hobby.

>
> I hear it on the HF bands. On the low side, people are keying down
> left and right without even identifying themselves or even bothering
> to check if people are calling CQ first.

That's caused IMHO by two things. The first is preventable, many hams now use autotuners and literally can't hear anything until they transmit, which causes the tuners to "work". By that time, the damage is done.

The second is the lousy propigation. I am right in the middle of the reach of signals from of the former Soviet Union, which had a very active ham community (it was treated as a sport with all the perks) and still does, and western Europe which is far less active than it used to be.

There are still plenty of Italian hams calling CQ forever (persistance pays in bad propigation), polite Germans and Austrians, and the occasional French or Brittish ham.

The problem is that they can not hear each other. 80 and 40 meters are burried in noise these days, even in the dead of winter they were nothing like they were 10 years ago, and the higher bands are open across Europe or farther for a short time each day.

Since the distances are the same, I expect the same thing happens in the US. A ham in New York can be happily in conversation with a ham in Florida, and someone on the west coast can tune up, listen and not hear them.

Meanwhile, a ham in Chicago may hear both.

Proprigation is not always 2 way, depending upon who has the better antennas, better receivers, less noise and more power, sometimes one side will be heard, while the other won't.

I often have s7 to s9 noise here on the low bands (sometimes as high as 20m), and so a perfectly readably s5 signal is lost to me. (today is an s9+ on 20m day)

> On the high side, I hear
> lots of obscenities, lots of crude speech, and lots of Tea Party
> monologues.

That is unfortunate. Nothing I or you can do about that, except to move to another frequency.

It's really become a case if "someone calls CQ on a band no one is listening to does it matter"? (the old if a tree falls analogy).

Start listening on 15 meters, and 10 meters, if your radio can do it and you are in the US, start working 60meters. If you prefer CW try 30 meters.

If you have a modern rig that does 2m or 6m SSB, build an antenna (a 6m dipole will work for a while), or a 2m beam, and start calling CQ on the low end of the bands.

Let people know you are there and they will come to you. Post here for the lower bands, join one of the more policed mailing lists, or just announce on a local repeater.

> CQ and 73 magazines have folded.

I never understood how 73 stayed in business after Wayne Green started talking about curing AIDS. Needless to say, he did not and alienated a lot of hams.

CQ is gone? Oh well, you see how often read it. I recently found their 50th anniversary issue and enjoyed reading it again. But like everything in print, we don't buy much of it anymore. Only the Friday paper (our equivalent of Sunday's in the US) and only for the ads.

> There are very seldom any new building projects on QST.

That's because no one builds anything anymore. If you are interested in such things, look around for websites and mailing lists about building things.

If just building things non radio related, interests you check out MAKE: (with a colon at the end) magazine. It may be too simplistic for you, it may not.

> The USENET groups for ham radio are pretty much flooded with porn.

No, your newsreader's filters are broken. I read around 20 groups a day and with judicious killfiling, see less than 1 porn message a day.

Youre real problem is that you drank the Google Kool-Aid. The worst thing that ever happened to USENET was "Google Groups". Just like their $150 million dollar investment in BPL almost killed ham radio, their opening of Google Groups, where anyone can post anything and often does, with no killfiling has almost killed USENET.

Get a decent newsreader and move to eternalseptember.org. You may actually enjoy USENET again.

> Where have all the people gone?

Real USENET, moderated (or monitored) mailing lists (many on yahoo), the less populated bands and so on. And unfortunately many of the hams I knew when I was first licensed (1993) are silent keys.

> If there's anyone left who is interested: I have a 100 Mhz analogue
> scope, several antique signal generators, a circa 1950's analogue
> signal analyzer, an FT101EE transceiver, and about 50 pounds of
> electronic components and samples.

Stick em in a box and mail them to me at your expense and I'll take them.

Expect someone to pay for them? Do you know a museum of 1970's technology?

Seriously, the FT101EE is worth about $100 "untested", $150-$200 if it works and $300-450 if it has been recapped, retubed, tuned and tweaked.

You might get $50 for the scope if it is a TEK or pre-Agilent HP. If it's so old it has tubes (besides the CRT), it will need to be recapped unless you sell it as a project.

IMHO the best thing to do is to get on 2m if there is any action near you, and find a new ham who wants a "project". Give it all to him (unfortunately it's a 99% probablility it's a he) gratis.

Just don't be surprised if in a couple of months he gives up and sells it all on eBay, or offers to give it away. New tubes, replacement caps, etc are expensive and it's a lot of work.

> I'm ready to walk away from my hobby for $1000. I'm willing to do it
> now rather than wait for my family to attempt to conduct an estate
> sale for pennies on the dollar.

More likely, it will just end up in the trash. Unless your survivors know any hams, no one will even want to come and take it away.

Geoff.

```
--
Geoffrey S. Mendelson N3OWJ/4X1GM
To help restaurants, as part of the "stimulus package", everyone must order
dessert. As part of the socialized health plan, you are forbidden to eat it. :-)
```

```
From -6350011832327698537
X-Google-Thread: fc2a5,5655c00701861e6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
newsfeed.straub-nv.de!open-news-network.org!eternal-september.org!.POSTED!not-for-
mail
From: david <none@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I don't see much point to continuing this hobby... it's just
 not fun
     anymore.
Date: Mon, 26 Jul 2010 12:58:09 +0000 (UTC)
Organization: A noiseless patient Spider
Lines: 48
Message-ID: <i2k0p1$9lv$1@news.eternal-september.org>
References: <2194ca8b-4920-44ad-b6d4-b09afeb75440@m35g2000prn.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Injection-Date: Mon, 26 Jul 2010 12:58:09 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="j6YNSx4ZzkGtILp30gi9hg";
     logging-data="9919"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18L22zLIqp0dC0Ox0/uwKFl"
```

Cancel-Lock: sha1:NSFu8YHwyjTuWqSojGzq7OtP3rY=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3651

On Sun, 25 Jul 2010 23:27:11 -0700, The Eternal Squire rearranged some electrons to say:

> To whom it may concern,
>
> I had been an electrical engineer and computer programmer who has now been jobless for five years now.
>
> I find it extremely ironic that the very hobby which helped me escape from an abusive family is now a place where nobody really cares.
>
> I hear it on the HF bands. On the low side, people are keying down left and right without even identifying themselves or even bothering to check if people are calling CQ first.   On the high side, I hear lots of obscenities, lots of crude speech, and lots of Tea Party monologues.
>
> CQ and 73 magazines have folded. There are very seldom any new building projects on QST.   The USENET groups for ham radio are pretty much flooded with porn.
>
> Where have all the people gone?
>
> If there's anyone left who is interested: I have a 100 Mhz analogue scope, several antique signal generators, a circa 1950's analogue signal analyzer, an FT101EE transceiver, and about 50 pounds of electronic components and samples.
>
> I'm ready to walk away from my hobby for $1000. I'm willing to do it now rather than wait for my family to attempt to conduct an estate sale for pennies on the dollar.
>
> Anyone interested please contact me here and we'll exchange email addresses.
>
> The Eternal Squire

Sorry you feel this way. I just recently obtained my tech, general, and extra tickets, and I am excited about getting on HF, althogh I don't have any HF gear yet. I actively particiate in the D-STAR mode thorugh local repeaters.

Locally, we have several youngsters (i.e. grade schoolers) who have become interested and obtained their licenses; it's great to hear them talking on the air.

Not sure why you think CQ magazine folded...it seems to be alive.
http://www.cq-amateur-radio.com/

```
From -6787350804252584802
X-Google-Thread: fc2a5,5655c00701861e6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!columbine.singnet.com.sg!not-for-mail
From: cslim <cslim388@singnet.com.sg>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I don't see much point to continuing this hobby... it's just
  not fun   anymore.
Date: Mon, 26 Jul 2010 22:04:44 +0800
Organization: Singapore Telecommunications Ltd
Lines: 56
Message-ID: <i2jsso$g5d$1@reader01.singnet.com.sg>
References: <2194ca8b-4920-44ad-b6d4-b09afeb75440@m35g2000prn.googlegroups.com>
<i2k0p1$9lv$1@news.eternal-september.org>
NNTP-Posting-Host: 116.15.104.117
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
In-Reply-To: <i2k0p1$9lv$1@news.eternal-september.org>
Xref: g2news1.google.com rec.radio.amateur.homebrew:3652

david wrote:
> On Sun, 25 Jul 2010 23:27:11 -0700, The Eternal Squire rearranged some
> electrons to say:
>
>> To whom it may concern,
>>
>> I had been an electrical engineer and computer programmer who has now
>> been jobless for five years now.
>>
>> I find it extremely ironic that the very hobby which helped me escape
>> from an abusive family is now a place where nobody really cares.
>>
>> I hear it on the HF bands.  On the low side, people are keying down left
>> and right without even identifying themselves or even bothering to check
>> if people are calling CQ first.   On the high side, I hear lots of
>> obscenities, lots of crude speech, and lots of Tea Party monologues.
>>
>> CQ and 73 magazines have folded.  There are very seldom any new building
>> projects on QST.   The USENET groups for ham radio are pretty much
>> flooded with porn.
>>
>> Where have all the people gone?
>>
>> If there's anyone left who is interested:  I have a 100 Mhz analogue
>> scope, several antique signal generators, a circa 1950's analogue signal
>> analyzer, an FT101EE transceiver, and about 50 pounds of electronic
>> components and samples.
>>
```

```
>> I'm ready to walk away from my hobby for $1000.  I'm willing to do it
>> now rather than wait for my family to attempt to conduct an estate sale
>> for pennies on the dollar.
>>
>> Anyone interested please contact me here and we'll exchange email
>> addresses.
>>
>> The Eternal Squire
>
> Sorry you feel this way.  I just recently obtained my tech, general, and
> extra tickets, and I am excited about getting on HF, althogh I don't have
> any HF gear yet.  I actively particiate in the D-STAR mode thorugh local
> repeaters.
>
> Locally, we have several youngsters (i.e. grade schoolers) who have
> become interested and obtained their licenses;  it's great to hear them
> talking on the air.
>
> Not sure why you think CQ magazine folded...it seems to be alive.
> http://www.cq-amateur-radio.com/
>
  HI,

If all the people interested in radio and building things are gone, then
how come I am facing stiff competition on Ebay when I wanted to bid for
87V Fluke meter, a HP8640B signal generator or even a small FT010 or
TS520 VFO?
cslim



From 6602071629574005312
X-Google-Thread: fc2a5,5655c00701861e6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 26 Jul 2010 16:29:59 -0500
Date: Mon, 26 Jul 2010 21:29:58 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I don't see much point to continuing this hobby... it's just
  not fun   anymore.
References: <2194ca8b-4920-44ad-b6d4-b09afeb75440@m35g2000prn.googlegroups.com>
<i2k0p1$9lv$1@news.eternal-september.org> <i2jsso$g5d$1@reader01.singnet.com.sg>
In-Reply-To: <i2jsso$g5d$1@reader01.singnet.com.sg>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <wsCdnRv2iqvKY9DRnZ2dnUVZ_uGdnZ2d@bright.net>
Lines: 20
```

X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-IGi/
DoAYQO77XCUjvRmNz5oaVuSndSDl5zm1RqKZaPiDnTmwVoGC4rbqZZQcLDDBPAzidlcI5P/aKs/!
X1p80U4rNS1/9n/KhK2+5I3jc5HyQTE8sjadgvdjiTM51qMwCRKoQOYN9Urmqd3n1xlsaNY0jmC8!wg/
4BKMXgw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3653

cslim wrote:

>>
> HI,
>
> If all the people interested in radio and building things are gone, then
> how come I am facing stiff competition on Ebay when I wanted to bid for
> 87V Fluke meter, a HP8640B signal generator or even a small FT010 or
> TS520 VFO?
> cslim

Because the ONE guy left in ham radio doesn't have those things for his collection yet! ;)

Scott
N0EDV
STILL BUILDIN' !!! (Mainly Microwave Stuff)
http://corbenflyer.tripod.com/

From 8803051400990974148
X-Google-Thread: fc2a5,b1c0e54a827960ba,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i28g2000yqa.googlegroups.com!not-for-mail
From: doug <doug.morsit@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: icom 7400 pcb`s
Date: Mon, 26 Jul 2010 14:33:12 -0700 (PDT)
Organization: http://groups.google.com
Lines: 10
Message-ID: <1885b208-c5bd-4b0f-a986-4eb909b44952@i28g2000yqa.googlegroups.com>
NNTP-Posting-Host: 92.23.226.85
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1280179992 29976 127.0.0.1 (26 Jul 2010 21:33:12 GMT)
X-Complaints-To: groups-abuse@google.com

```
NNTP-Posting-Date: Mon, 26 Jul 2010 21:33:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i28g2000yqa.googlegroups.com; posting-host=92.23.226.85;
     posting-account=uEpC4QoAAADI5mmmGvLn3QTEz4ICnoKq
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-GB; rv:1.9.2.2)
     Gecko/20100316 Firefox/3.6.2,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3654
```

hello all,   does anyone know if my icom 7400 txvr., bought new in jan.
2004, circuit boards were
assembled using `lead free` solder,or leaded solder,and can leaded
solder be used to repair or
replace parts even if original assembly was `lead free` The sevice
manual doesn`t mention this,
and tried Googling for info. with no success !

thanks for any info.   doug.

```
From 2693519339577528000
X-Google-Thread: fc2a5,5655c00701861e6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 26 Jul 2010 18:12:33 -0500
Date: Mon, 26 Jul 2010 18:12:37 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.7) Gecko/
20100713 Thunderbird/3.1.1
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I don't see much point to continuing this hobby... it's just
 not fun  anymore.
References: <2194ca8b-4920-44ad-b6d4-b09afeb75440@m35g2000prn.googlegroups.com>
<slrni4qkno.r55.gsm@cable.mendelson.com>
In-Reply-To: <slrni4qkno.r55.gsm@cable.mendelson.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <W6OdnaajH-38i9PRnZ2dnUVZ_jydnZ2d@giganews.com>
Lines: 29
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
RKFU8vkRhVuy33De76nnNRrHPaC2QB4Okw7dt9B8CRpzPBkIi9SW30+2izYEi6yK8RhaQVjtIsrhAWF!
AA7U638V3aWhL6VTbgUfMLHKb4/ufmE2R9WfNJC4NQYgBOguqk6LDFild1yU4e1bPEnfkOJsEWs=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
```

```
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3655

On 7/26/2010 4:19 AM, Geoffrey S. Mendelson wrote:
/snip/
>> I'm ready to walk away from my hobby for $1000.  I'm willing to do it
>> now rather than wait for my family to attempt to conduct an estate
>> sale for pennies on the dollar.
>
> More likely, it will just end up in the trash. Unless your survivors know
> any hams, no one will even want to come and take it away.
>
> Geoff.
>

There ARE people who write mean notes just because they can. But this
isn't one of that brand - it sounds too coldly realistic. Sad.

When I was a kid, 3 gigahertz and 10 gigahertz were radar bands.
Magnetron and klystron territory.
  Now I can buy a PC that runs at 2.6 GHz

  Used to be, I could wait thirty seconds for Google to open.
Now I see MATLAB open inside 2 seconds - and that's over 2 GB of code....

  If I want a tech project, I can buy a reasonably fast Arduino
processor board for about $30, and get all kind of software applications
for it, and all kind of hardware add ons - gyros accelerometers, thermal
sensors, motors, relay and triac drives
  - the whole ball of wax

Brian W


From -2522613775885728951
X-Google-Thread: fc2a5,b1c0e54a827960ba
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
news.mixmin.net!aioe.org!not-for-mail
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: icom 7400 pcb`s
Date: Mon, 26 Jul 2010 22:11:36 -0400
Organization: Aioe.org NNTP Server
Lines: 24
Message-ID: <fmmck-D2C1AC.22113626072010@5ad64b5e.bb.sky.com>
References: <1885b208-c5bd-4b0f-a986-4eb909b44952@i28g2000yqa.googlegroups.com>
NNTP-Posting-Host: XJYvqJf2/UWvnOW1Lq4IQw.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
```

```
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3656
```

In article
<1885b208-c5bd-4b0f-a986-4eb909b44952@i28g2000yqa.googlegroups.com>,
doug <doug.morsit@gmail.com> wrote:

> hello all,   does anyone know if my icom 7400 txvr., bought new in jan.
> 2004, circuit boards were
> assembled using `lead free` solder,or leaded solder,and can leaded
> solder be used to repair or
> replace parts even if original assembly was `lead free` The sevice
> manual doesn`t mention this,
> and tried Googling for info. with no success !

Doug-

Circuit boards that contain surface-mount components most likely were made with lead-free solder. Lead can combine with silver used to connect to the components. The resulting amalgam can cause bad electrical connections.

If the circuit boards had nothing but components with wire leads, then it probably wouldn't matter. I doubt this is the case, however.

Fred
K4DII

```
From 7788451656874166337
X-Google-Thread: fc2a5,b1c0e54a827960ba
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!e35g2000vbl.googlegroups.com!not-for-
mail
From: doug <doug.morsit@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: icom 7400 pcb`s
Date: Mon, 26 Jul 2010 21:13:19 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <99a01f17-7800-4838-931f-067d50f8ae9a@e35g2000vbl.googlegroups.com>
References: <1885b208-c5bd-4b0f-a986-4eb909b44952@i28g2000yqa.googlegroups.com>
     <fmmck-D2C1AC.22113626072010@5ad64b5e.bb.sky.com>
NNTP-Posting-Host: 92.23.104.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
```

```
X-Trace: posting.google.com 1280204000 12633 127.0.0.1 (27 Jul 2010 04:13:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Jul 2010 04:13:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e35g2000vbl.googlegroups.com; posting-host=92.23.104.151;
     posting-account=uEpC4QoAAADI5mmmGvLn3QTEz4ICnoKq
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-GB; rv:1.9.2.2)
     Gecko/20100316 Firefox/3.6.2,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3657

On 27 July, 03:11, Fred McKenzie <fm...@aol.com> wrote:
> In article
> <1885b208-c5bd-4b0f-a986-4eb909b44...@i28g2000yqa.googlegroups.com>,
>
> =A0doug <doug.mor...@gmail.com> wrote:
> > hello all, =A0 does anyone know if my icom 7400 txvr., bought new in ja=
n.
> > 2004, circuit boards were
> > assembled using `lead free` solder,or leaded solder,and can leaded
> > solder be used to repair or
> > replace parts even if original assembly was `lead free` =A0The sevice
> > manual doesn`t mention this,
> > and tried Googling for info. with no success =A0!
>
> Doug-
>
> Circuit boards that contain surface-mount components most likely were
> made with lead-free solder. =A0Lead can combine with silver used to
> connect to the components. =A0The resulting amalgam can cause bad
> electrical connections.
>
> If the circuit boards had nothing but components with wire leads, then
> it probably wouldn't matter. =A0I doubt this is the case, however.
>
> Fred
> K4DII


Fred, thanks for info.  The radio is all surface mount stuff, so as
you say,likely
lead free. Will need to give it more thought !    73    Doug  GM3OAV


From -5871789366976510591
X-Google-Thread: fc2a5,77b1d36c499f28d9,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k1g2000prl.googlegroups.com!not-for-
mail
From: bgfbfjgg ojdhdsd <uijsbhsbchsv@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
```

```
Subject: HOT VIDEOS FIND
Date: Mon, 26 Jul 2010 23:57:08 -0700 (PDT)
Organization: http://groups.google.com
Lines: 15
Message-ID: <f5e19c55-2065-41ba-9051-4c826cfc41e2@k1g2000prl.googlegroups.com>
NNTP-Posting-Host: 117.199.247.24
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1280213829 677 127.0.0.1 (27 Jul 2010 06:57:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Jul 2010 06:57:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k1g2000prl.googlegroups.com; posting-host=117.199.247.24;
     posting-account=VkOAtQoAAACEcOLC5-eHi1eJjZH4zy38
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.8)
     Gecko/20100722 Firefox/3.6.8,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3658

FOR BETS HOT VIDEOS
http://verysexyhotvideos.blogspot.com/

super hot lip kiss
http://hotvideosfreesee.blogspot.com/2010/06/super-hot-lip-kiss.html
hot lip kiss 12
http://hotvideosfreesee.blogspot.com/2010/06/hot-lip-kiss-12.html
super lip kiss 567
http://hotvideosfreesee.blogspot.com/2010/06/super-lip-kiss-567.html
super supr lip kiss232
http://hotvideosfreesee.blogspot.com/2010/06/super-supr-lip-kiss232.html
sexy lip kiss 7890
http://hotvideosfreesee.blogspot.com/2010/06/sexy-lip-kiss-7890.html
supe r hot kiss op
http://hotvideosfreesee.blogspot.com/2010/06/supe-r-hot-kiss-op.html


From -8176224316271895888
X-Google-Thread: fc2a5,5655c00701861e6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!
easynews.com!en-nntp-07.dc1.easynews.com.POSTED!not-for-mail
From: John Ferrell <jferrell13@triad.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I don't see much point to continuing this hobby... it's just not fun
anymore.
Message-ID: <vsmt46lrpop3paqf7f1jo6agkfsohcu5en@4ax.com>
References: <2194ca8b-4920-44ad-b6d4-b09afeb75440@m35g2000prn.googlegroups.com>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
```

Content-Transfer-Encoding: 7bit
Lines: 95
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Tue, 27 Jul 2010 10:07:47 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:3659

Judging by your equipment you are probably as old as I am!
I have found that you can find whatever you look for.
Equipment is better and more available than ever. There seems to be an unending supply of really nice and knowledgable people to talk to on both Ham radio and the internet. I have access to information at my finger tips and the diverse opinions of experts on nearly any subject that I choose any time!

It astounds me that there are so many folks who are so kind and generous when they find someone who shares their interests. I find it fun to do the same with those that I can help!

I bought an incomplete home brew project at a hamfest a while back that was a near perfect match for a project that I wanted to build. I thanked the fellow and complimented him on his work. He then dropped the prices on much of the rest of his table. He also gathered up some things I had shown an interest in and insisted I give the a good home!

There are some really nice people out there but you have to give them a chance!

I have found that there are plenty of Hams on 160, 80, 40 and 2 meters that I really don't care to talk to. No problem, I just move on, they are not going to rain on my parade. I consider them just part of the noise and easy enough to filter out of my world.

Hang onto your scope, it is probably as good as anything available on Ebay or elsewhere. Since you have that, I expect you can build. Get interested in small projects with micro processors & such. Parts are cheap and you can keep a whole workshop in a fishing tackle box!

You probably love that FT101, but you really need to experience a little of the modern stuff! These itty-bitty modern radios are pain to see and operate but plug one into your computer with an inexpensive (or free!) control program and you can operate from your computer!
I passed my FT301's along awhile back and have not missed them. I am currently using a Ten Tec Jupiter and lusting for an Omnii 7.

Usenet is in a lull at the moment but like sunspots, it will be back stronger than ever because of its freedom. All the advertising and porn will remain but just consider it noise. We can work through the noise!

I am leaving instructions that anything that is in my estate that is not useful to my heirs is to be taken to a Hamfest and sold for whatever is offerred or just given away. Nothing to the landfill please! Some of it will find a good home I hope!

I discovered BPSK31 last February and I want to get a 40M antenna into the mix for my MultiBand Fan-Sloper today (maybe 80M too!) as well as assemble a new computer for a church project today. It will be a very busy and fun day!

It is a great time for an old Nerd/Egghead/Techie/Geek to be living!

73, and may the force be with you,

On Sun, 25 Jul 2010 23:27:11 -0700 (PDT), The Eternal Squire
<eternalsquire@hotmail.com> wrote:

>To whom it may concern,
>
>I had been an electrical engineer and computer programmer who has now
>been jobless for five years now.
>
>I find it extremely ironic that the very hobby which helped me escape
>from an abusive family is now a place where nobody really cares.
>
>I hear it on the HF bands. On the low side, people are keying down
>left and right without even identifying themselves or even bothering
>to check if people are calling CQ first.   On the high side, I hear
>lots of obscenities, lots of crude speech, and lots of Tea Party
>monologues.
>
>CQ and 73 magazines have folded. There are very seldom any new
>building projects on QST.   The USENET groups for ham radio are pretty
>much flooded with porn.
>
>Where have all the people gone?
>
>If there's anyone left who is interested: I have a 100 Mhz analogue
>scope, several antique signal generators, a circa 1950's analogue
>signal analyzer, an FT101EE transceiver, and about 50 pounds of
>electronic components and samples.
>
>I'm ready to walk away from my hobby for $1000. I'm willing to do it
>now rather than wait for my family to attempt to conduct an estate
>sale for pennies on the dollar.
>
>Anyone interested please contact me here and we'll exchange email
>addresses.
>
>The Eternal Squire
John Ferrell W8CCW

```
From 2246602947818214040
X-Google-Thread: fc2a5,5655c00701861e6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx01.iad01.newshosting.com!
newshosting.com!198.186.194.249.MISMATCH!transit3.readnews.com!news-
out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: "Geoffrey S. Mendelson" <gsm@mendelson.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I don't see much point to continuing this hobby... it's just
 not fun  anymore.
Date: Tue, 27 Jul 2010 14:34:05 +0000 (UTC)
Organization: MGT Consulting
Lines: 33
Message-ID: <slrni4trdc.3uj.gsm@cable.mendelson.com>
References: <2194ca8b-4920-44ad-b6d4-b09afeb75440@m35g2000prn.googlegroups.com>
 <vsmt46lrpop3paqf7f1jo6agkfsohcu5en@4ax.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: dsl217-132-41-91.bb.netvision.net.il
X-Trace: max.inside.misty.com 1280241245 30268 217.132.41.91 (27 Jul 2010 14:34:05
GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Tue, 27 Jul 2010 14:34:05 +0000 (UTC)
User-Agent: slrn/pre1.0.0-11 (Linux)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3660
```

John Ferrell wrote:

> I am leaving instructions that anything that is in my estate that is
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> whatever is offerred or just given away. Nothing to the landfill
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I was watching a YouTube video of someone demoing a Kenwood TS-830 he was selling. One of the comments was from someone who noticed price tags on all the equipment near it.

The ham selling the rig said that he put price tags on ALL of his gear so that when the time came for it to be sold off at an estate sale, the people doing it knew what to sell it for.

On the flip side someone here had imported at great expense from the US all the old ham radios her father had lovingly used until he died.

A friend of mine went to take them and said all that was there was trash. The only thing he was able to salvage a J-38 key that was too dirty to use.

Everything of value had been sold off before he died.

Good thing, someone else called her and convinced her to let him get first crack at the stuff because he was an upstanding religeous guy and was going

to help relgious students, etc . Gave her a phoney ham call too. He took
one look at the stuff and walked out.

Geoff.

--
Geoffrey S. Mendelson N3OWJ/4X1GM
To help restaurants, as part of the "stimulus package", everyone must order
dessert. As part of the socialized health plan, you are forbidden to eat it. :-)

From -2395012792797923010
X-Google-Thread: fc2a5,5655c00701861e6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q16g2000prf.googlegroups.com!not-for-mail
From: The Eternal Squire <eternalsquire@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I don't see much point to continuing this hobby... it's just not
     fun anymore.
Date: Tue, 27 Jul 2010 10:24:44 -0700 (PDT)
Organization: http://groups.google.com
Lines: 104
Message-ID: <e24ef38e-77ca-4218-ba66-4283a74a2760@q16g2000prf.googlegroups.com>
References: <2194ca8b-4920-44ad-b6d4-b09afeb75440@m35g2000prn.googlegroups.com>
     <vsmt46lrpop3paqf7f1jo6agkfsohcu5en@4ax.com>
<slrni4trdc.3uj.gsm@cable.mendelson.com>
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Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1280251492 6781 127.0.0.1 (27 Jul 2010 17:24:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Jul 2010 17:24:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q16g2000prf.googlegroups.com; posting-host=72.47.9.244;
     posting-account=NGBBuwoAAACAVxFd0rmWzjv3rJTndRji
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0;
     Trident/4.0; FunWebProducts; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729;
     .NET CLR 3.0.30618; .NET4.0C),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3661

I'm not even all that terribly old.   I just turned 48.   But now I
feel terribly alone.

One of the main problems I have is that I have grown up with autism,
depression,
and child abuse. And since it simply wasn't done back in those days
to tattle on
my father to the police for beating his wife and children, ham radio
was my escape
from all that.

Ham radio was also my doorway to a good career as a software designer, and to an honorable way out of leaving my family for good. But not before both my mother and my sister died from suicide while I was still in college. I tried having girlfriends before I married but not one of those relationships lasted beyond a few months. I also married twice. My first marriage ended because my ex was as mentally ill as I was, and wanted me to take an overdose of pills with her. I had to walk away from that marriage when that happened.

I spent a lot of years being a complete social inept while being very good at the workplace for a total of 15 years, with lots of breaks between those jobs for being encouraged to resign for lack of social skills. I've spent a lot of time with shrinks, and taken lots of different medications. But none of these things were nearly as effective as simply being busy and focused on a project at work, where for at least a few hours a day I felt like I had some worth and could temporarily ignore both my loneliness and my constant background thoughts about ending my life.

I was last employed in 2005, after a huge layoff where the company lost a third of its people after a top level takeover. The company had been a very nice place to work, and it was while working there that I had the confidence to marry again and this time start a family. My wife and I reversed roles and so I supported her career, because I have not been able to find work since, in or out of my field. The usual answer I got at interviews since the layoff, was "We believe your skills are outstanding but we have this 'gut feeling' you would not fit it with our team."

But that's the whole point, you see. I compensated for not being able to fit with people by becoming extremely competent at what I did for a living. In the older days you could get harassed for being unable to relate with other people well but at least they would recognize talent and hard work and the willingness to take on the most difficult possible assignments and hire people for accomplishment. Now they don't do that, because teamwork and service are everything, and expertise is now something they buy off the shelf from Bangalore or Bejing.

At this point in my life I don't believe I will change, because it means I would have to become something I haven't been and never was. And by now, I have found that I don't really like or trust most people... because I had been hurt or ignored too much by them. I'm really only close with my wife and my daughter.

I've been unemployed for five years now. The first two years I had been busy raising my daughter to school age, no time for hobbies and radio then. The next three years had been a rather painful search not just for working, but also for a new working identity.
I used unemployment money to buy a tabletop CNC milling machine by way of adding a new skill set. I also started teaching myself how to hammer and shape silver, and to collect and shape and polish rocks... because now that I am denied an engineering career I thought to become a jeweler using my engineering skills as a starting point.

There's a lot of possibilities for things I could do or make, but I'm paralyzed at trying to follow up on any of them. So I do nothing very intensely anymore. I don't want to stake much of myself on attempting something and then having my work or myself rejected again.

So here I am, a complete waste of training, cooking and washing dishes, playing mad scientist, and waiting for a better day.

The Eternal Squire

From 7637795865654131307
X-Google-Thread: fc2a5,5655c00701861e6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!newshosting.com!198.186.194.249.MISMATCH!transit3.readnews.com!news-out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: "Geoffrey S. Mendelson" <gsm@mendelson.com>

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I don't see much point to continuing this hobby... it's just
 not fun anymore.
Date: Tue, 27 Jul 2010 18:24:05 +0000 (UTC)
Organization: MGT Consulting
Lines: 69
Message-ID: <slrni4u91p.89o.gsm@cable.mendelson.com>
References: <2194ca8b-4920-44ad-b6d4-b09afeb75440@m35g2000prn.googlegroups.com>
 <vsmt46lrpop3paqf7f1jo6agkfsohcu5en@4ax.com>
 <slrni4trdc.3uj.gsm@cable.mendelson.com>
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Reply-To: gsm@mendelson.com
NNTP-Posting-Host: dsl217-132-41-91.bb.netvision.net.il
X-Trace: max.inside.misty.com 1280255045 2946 217.132.41.91 (27 Jul 2010 18:24:05 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Tue, 27 Jul 2010 18:24:05 +0000 (UTC)
User-Agent: slrn/pre1.0.0-11 (Linux)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3662

The Eternal Squire wrote:
> I'm not even all that terribly old.   I just turned 48.   But now I
> feel terribly alone.

....
>
> There's a lot of possibilities for things I could do or make, but I'm
> paralyzed at trying to follow up on any of them. So I do nothing
> very intensely anymore. I don't want to stake much of myself on attempting
> something and then having my work or myself rejected again.

That's your problem in a nutshell. It's not ham radio it's you. You've metaphoricaly fallen off the horse and refuse to get back in the saddle.

It's a common part of depression and a common effect of being laid off or retiring.

You need (at least IMHO) to accept the fact that you are going to fail, most of the time and do things. Most people see start-ups making big bucks on the news, but have no clue that the failure rate is about 95%. 75% in the first year, Here in Israel, about 1/2 to 2/3 fail before they exist on paper and anyone knew they were even "there", so they don't count in the published figures.

I have no information about the US, but what I know from people in silly valley, that's about right there too.

> So here I am, a complete waste of training, cooking and washing dishes,
> playing mad scientist, and waiting for a better day.

There you go. Better days are not going to come look for you, you have to keep looking for them.

As I said before, move to a different band if you don't like the hams on the one you are on. Look for different ways to use your skills, market yourself etc.

For example, can you build prototypes? Inventors are everywhere looking for people to build their demo unit to raise funds. You could build one for cost of materials and enough extra cash to offset your time and effort, plus a small "cut of the action".

It's not going to pay well, but if you do one a month for two years, there is a good chance that one of them will pay off, and far more than if you had charged "full price" to the other 23.

Since you have experience in software development, radio and metalworking, maybe you can combine them all into a niche market within prototype design.

The better days are out there, and they need you, but you have to go find them yourself.

BTW, are by any chance, you, your wife, or are/were any of the 8 grandparents between you Jewish? If yes, you are entitled to Israeli citizenship, relocation and "absorption" assistance.

It would be a real uphill battle and a "kick in the pants", but it may be exactly what you need.

Or if the same question applies to being Irish, they also have a "law of return", but I know nothing more.

Geoff.

--
Geoffrey S. Mendelson N3OWJ/4X1GM
To help restaurants, as part of the "stimulus package", everyone must order dessert. As part of the socialized health plan, you are forbidden to eat it. :-)

From 3162871380334930655
X-Google-Thread: fc2a5,b1c0e54a827960ba
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Path: g2news1.google.com!postnews.google.com!v35g2000prn.googlegroups.com!not-for-mail
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: icom 7400 pcb`s
Date: Tue, 27 Jul 2010 19:32:58 -0700 (PDT)
Organization: http://groups.google.com
Lines: 45
Message-ID: <580bf755-b3af-4e3e-b903-69ef2d750edf@v35g2000prn.googlegroups.com>
References: <1885b208-c5bd-4b0f-a986-4eb909b44952@i28g2000yqa.googlegroups.com>

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NNTP-Posting-Date: Wed, 28 Jul 2010 02:32:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v35g2000prn.googlegroups.com; posting-host=68.67.102.57;
     posting-account=LQVNZAkAAAAHQ9vQRrCB-Qc9fLbREhw4
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.8)
     Gecko/20100722 Firefox/3.6.8 ( .NET CLR 3.5.30729),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3663
```

On Jul 26, 2:33=A0pm, doug <doug.mor...@gmail.com> wrote:

> hello all, =A0 does anyone know if my icom 7400 txvr., bought new in jan.
> 2004, circuit boards were
> assembled using `lead free` solder,or leaded solder,and can leaded
> solder be used to repair or
> replace parts even if original assembly was `lead free` =A0The sevice
> manual doesn`t mention this,
> and tried Googling for info. with no success =A0!
>
> thanks for any info. =A0 =A0 doug.

No need to wonder. Heat up a soldering iron so it will melt some tin/lead wire solder. Small 63/37 will work best. Find a place on a board where you can get an iron onto the solder on the board. See if you can add a tiny bit of leaded solder to what is on the board. If it melts and joins the board solder, then your radio uses leaded solder. If the board solder will not melt to join your leaded solder, then the radio was built with lead free solder.

Since lead free devices were first required in the EU on July 2006, lead free solder certainly was not a requirement. Asian countries followed the EU by a year or so.

Another clue is if the insulated wiring in your radio uses PVC insulation. Lead compounds are used to keep the insulation flexible and would probably not have been used in a lead-free device. Also look for tinned wires. Lead-free will use silver plating and probably teflon insulation.

Also look at the connectors to see if they are tinned rather than gold flashed. Another good clue.

Lead solder can certainly be used to repair a lead free solder connection. The problem is in getting the lead-free solder hot enough to melt with a common soldering iron. If you are removing/.replacing a SMT component on a circuit board, the usual method is to just clip the leads, if possible, then use a suitable soldering iron to clean up the pads. Then use your leaded solder to place the new component. If you have some solder paste, use that on the pads before placing the new component, but you can use thin wire solder just a well.

Be sure to clean off all the flux.

Good luck
Paul, KD7HB

```
From -3678200002144477708
X-Google-Thread: fc2a5,5655c00701861e6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-06.dc1.easynews.com.POSTED!not-for-mail
From: John Ferrell <jferrell13@triad.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I don't see much point to continuing this hobby... it's just not  fun
anymore.
Message-ID: <jld056tin5s7qh4iu05fjbc9uek9psbtf4@4ax.com>
References: <2194ca8b-4920-44ad-b6d4-b09afeb75440@m35g2000prn.googlegroups.com>
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ba66-4283a74a2760@q16g2000prf.googlegroups.com>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 151
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Wed, 28 Jul 2010 13:06:26 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:3665
```

The fact that you are following a Newsgroup on Homebrew electronics indicates you are different than most of the rest of the world. You are here with a group other odd folks. We are not "normal" in the eyes of the average population. We accept being different and enjoy it!

What you would prefer to do in life and what is available for you to do not appear to be the same thing. Most people do not find the work that supports themselves and their families less than their first choice. Were I in your position, I would seek gainful employment in whatever I could do and tolerate. If gainful employment is not to be had, there a lot of volunteer jobs that may lead to a better life.

If you don't expect much from other people you will appreciate those that surprise you! The life that is behind you is not nearly as important as that which is in front of you.

Association with some religious group is better than none and as Geoffrey indicated, there are benefits that come with belonging.

You say: "So here I am, a complete waste of training, cooking and washing dishes, playing mad scientist, and waiting for a better day." Lots of us old retired guys live the same life and enjoy it. Since we retired I consider myself a "House husband". I send my wife and her sister off on trips & cruises while I enjoy staying home and tending to the dog & cat. I had more than enough travel while I was working!

When she completes her Chemotherapy I don't intend to change a thing, I enjoy my cluttered life just as it is...

I can tell you the world is not going to change to meet your wants but you can alter your approach to life and find a comfortable and friendly spot to be. If you choose to be happy, you can make it happen. If you choose to be miserable, you can be miserable.
I gotta go now, today I am assembling a computer for the church and I have a model airplane that needs attention. I did not get to the antenna work I had planned yesterday... I really need to mop the kitchen too...
Life is great for us Nerds today!
May the force be with you and God Bless...

On Tue, 27 Jul 2010 10:24:44 -0700 (PDT), The Eternal Squire <eternalsquire@hotmail.com> wrote:

>I'm not even all that terribly old.   I just turned 48.   But now I
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>usual answer I got at interviews since the layoff, was "We believe
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>
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```
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>my daughter to school age, no time for hobbies and radio then.   The
>next three years
>had been a rather painful search not just for working, but also for a
>new working identity.
>I used unemployment money to buy a tabletop CNC milling machine by way
>of adding
>a new skill set.  I also started teaching myself how to hammer and
>shape silver, and to
>collect and shape and polish rocks... because now that I am denied an
>engineering
>career I thought to become a jeweler using my engineering skills as a
>starting point.
>
>There's a lot of possibilities for things I could do or make, but I'm
>paralyzed at trying to
>follow up on any of them.  So I do nothing very intensely anymore.   I
>don't want to stake
>much of myself on attempting something and then having my work or
>myself rejected again.
>
>So here I am, a complete waste of training, cooking and washing
>dishes, playing mad
>scientist, and waiting for a better day.
>
>The Eternal Squire
John Ferrell W8CCW


From 8737927816123280820
X-Google-Thread: fc2a5,5655c00701861e6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx01.iad01.newshosting.com!
newshosting.com!news-out.octanews.net!indigo.octanews.net!
news-1.mpls.iphouse.net.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I don't see much point to continuing this hobby... it's just not fun
anymore.
From: Bert Hyman <bert@iphouse.com>
References: <2194ca8b-4920-44ad-b6d4-b09afeb75440@m35g2000prn.googlegroups.com>
Organization: Not that you'd notice
Message-ID: <Xns9DC38425989D8VeebleFetzer@216.250.188.140>
User-Agent: Xnews/2006.08.24
Date: 28 Jul 2010 17:59:26 GMT
Lines: 16
NNTP-Posting-Date: 28 Jul 2010 12:59:26 CDT
NNTP-Posting-Host: 51e0c6c0.newsreader.iphouse.net
```

```
X-Trace:
DXC=1dE:Rc[>BQT5Po34K=`BCWUU[C:R=]MbZeHS>e[L>83POHA8^[A[WLTc230oU7d71QX7@2h;nGb4]8
Q`7=TQWDLY
X-Complaints-To: abuse@iphouse.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:3666

In news:2194ca8b-4920-44ad-b6d4-b09afeb75440@m35g2000prn.googlegroups.com
The Eternal Squire <eternalsquire@hotmail.com> wrote:

> I hear it on the HF bands.  On the low side, people are keying down
> left and right without even identifying themselves or even bothering
> to check if people are calling CQ first.   On the high side, I hear
> lots of obscenities, lots of crude speech, and lots of Tea Party
> monologues.

Sounds like you need to switch to contesting and/or DXing, preferably using
CW.

That way you don't actually have to talk to anyone.

--
Bert Hyman    W0RSB     St. Paul, MN  bert@iphouse.com


From 2103440921138305926
X-Google-Thread: fc2a5,b1c0e54a827960ba
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!w30g2000yqw.googlegroups.com!not-for-
mail
From: doug <doug.morsit@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: icom 7400 pcb`s
Date: Wed, 28 Jul 2010 16:21:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 53
Message-ID: <4576767d-3a37-44c6-b1c6-1e91815aced8@w30g2000yqw.googlegroups.com>
References: <1885b208-c5bd-4b0f-a986-4eb909b44952@i28g2000yqa.googlegroups.com>
     <580bf755-b3af-4e3e-b903-69ef2d750edf@v35g2000prn.googlegroups.com>
NNTP-Posting-Host: 92.23.137.61
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1280359299 32687 127.0.0.1 (28 Jul 2010 23:21:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 28 Jul 2010 23:21:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w30g2000yqw.googlegroups.com; posting-host=92.23.137.61;
     posting-account=uEpC4QoAAADI5mmmGvLn3QTEz4ICnoKq
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-GB; rv:1.9.2.8)
     Gecko/20100722 Firefox/3.6.8,gzip(gfe)
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:3667

On 28 July, 03:32, "pdr...@coinet.com" <co_far...@yahoo.com> wrote:
> On Jul 26, 2:33=A0pm, doug <doug.mor...@gmail.com> wrote:
>
> > hello all, =A0 does anyone know if my icom 7400 txvr., bought new in ja=
n.
> > 2004, circuit boards were
> > assembled using `lead free` solder,or leaded solder,and can leaded
> > solder be used to repair or
> > replace parts even if original assembly was `lead free` =A0The sevice
> > manual doesn`t mention this,
> > and tried Googling for info. with no success =A0!
>
> > thanks for any info. =A0 =A0 doug.
>
> No need to wonder. Heat up a soldering iron so it will melt some tin/
> lead wire solder. Small 63/37 will work best. Find a place on a board
> where you can get an iron onto the solder on the board. See if you can
> add a tiny bit of leaded solder to what is on the board. If it melts
> and joins the board solder, then your radio uses leaded solder. If the
> board solder will not melt to join your leaded solder, then the radio
> was built with lead free solder.
>
> Since lead free devices were first required in the EU on July 2006,
> lead free solder certainly was not a requirement. Asian countries
> followed the EU by a year or so.
>
> Another clue is if the insulated wiring in your radio uses PVC
> insulation. Lead compounds are used to keep the insulation flexible
> and would probably not have been used in a lead-free device. Also look
> for tinned wires. Lead-free will use silver plating and probably
> teflon insulation.
>
> Also look at the connectors to see if they are tinned rather than gold
> flashed. Another good clue.
>
> Lead solder can certainly be used to repair a lead free solder
> connection. The problem is in getting the lead-free solder hot enough
> to melt with a common soldering iron. If you are removing/.replacing a
> SMT component on a circuit board, the usual method is to just clip the
> leads, if possible, then use a suitable soldering iron to clean up the
> pads. Then use your leaded solder to place the new component. If you
> have some solder paste, use that on the pads before placing the new
> component, but you can use thin wire solder just a well.
>
> Be sure to clean off all the flux.
>
> Good luck
> Paul, KD7HB

Thanks Paul,lots of useful info. in your reply.Am a lot more confident

now
to tackle repair job !   73 from Doug GM3OAV

```
From 3469186579559482975
X-Google-Thread: fc2a5,5655c00701861e6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder2.cambriumusenet.nl!
feeder1.cambriumusenet.nl!feed.tweaknews.nl!193.201.147.71.MISMATCH!xlned.com!
feeder3.xlned.com!feeder.news-service.com!85.214.198.2.MISMATCH!eternal-
september.org!.POSTED!not-for-mail
From: CSquared <obfuscatecsquared3@tx.rr.com.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I don't see much point to continuing this hobby... it's just
 not  fun anymore.
Date: Wed, 28 Jul 2010 18:46:03 -0500
Organization: A noiseless patient Spider
Lines: 54
Message-ID: <i2qfgv$nd$1@news.eternal-september.org>
References: <2194ca8b-4920-44ad-b6d4-b09afeb75440@m35g2000prn.googlegroups.com>
<vsmt46lrpop3paqf7f1jo6agkfsohcu5en@4ax.com>
<slrni4trdc.3uj.gsm@cable.mendelson.com> <e24ef38e-77ca-4218-
ba66-4283a74a2760@q16g2000prf.googlegroups.com>
<jld056tin5s7qh4iu05fjbc9uek9psbtf4@4ax.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Wed, 28 Jul 2010 23:46:40 +0000 (UTC)
Injection-Info: mx01.eternal-september.org; posting-host="UF30aLzzMzzRRGsbYJ6RIw";
     logging-data="749"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/8d2yPb9O2rGaGotV7ujla"
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
In-Reply-To: <jld056tin5s7qh4iu05fjbc9uek9psbtf4@4ax.com>
Cancel-Lock: sha1:/g8wesAV5Qng4vW2MX7k3L1/ASo=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3668
```

John Ferrell wrote:

> The fact that you are following a Newsgroup on Homebrew electronics
> indicates you are different than most of the rest of the world. You
> are here with a group other odd folks. We are not "normal" in the eyes
> of the average population. We accept being different and enjoy it!
>
> What you would prefer to do in life and what is available for you to
> do not appear to be the same thing. Most people do not find the work
> that supports themselves and their families less than their first
> choice. Were I in your position, I would seek gainful employment in
> whatever I could do and tolerate. If gainful employment is not to be
> had, there a lot of volunteer jobs that may lead to a better life.
>
> If you don't expect much from other people you will appreciate those
> that surprise you! The life that is behind you is not nearly as

> important as that which is in front of you.
>
> Association with some religious group is better than none and as
> Geoffrey indicated, there are benefits that come with belonging.
>
> You say: "So here I am, a complete waste of training, cooking and
> washing dishes, playing mad scientist, and waiting for a better day."
> Lots of us old retired guys live the same life and enjoy it. Since we
> retired I consider myself a "House husband". I send my wife and her
> sister off on trips & cruises while I enjoy staying home and tending
> to the dog & cat. I had more than enough travel while I was working!
>
> When she completes her Chemotherapy I don't intend to change a thing,
> I enjoy my cluttered life just as it is...
>
> I can tell you the world is not going to change to meet your wants but
> you can alter your approach to life and find a comfortable and
> friendly spot to be. If you choose to be happy, you can make it
> happen. If you choose to be miserable, you can be miserable.
> I gotta go now, today I am assembling a computer for the church and I
> have a model airplane that needs attention. I did not get to the
> antenna work I had planned yesterday... I really need to mop the
> kitchen too...
> Life is great for us Nerds today!
> May the force be with you and God Bless...
>
>

Great advice IMHO. I sincerely hope you are able to find your niche.
If you want to work again, I can tell you that there are some kind and
understanding interviewers out there, though I'll admit they may be a
bit rare. I've been known to spend the first 30 minutes of the
interview chatting about the weather, baseball or whatever just to allow
an obviously nervous or ill at ease applicant time to get to a level of
comfort where the "real" interview could begin. I'm sure I'm not the
only one. Gotta go do some laundry now. :-)
Blessings,
Charlie C.
--
To email me, eradicate obfuscate & remove dot invalid.

From 5348334243404082458
X-Google-Thread: fc2a5,a6b6c304694568a5,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 28 Jul 2010 18:51:14 -0500
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Freescale MPC5675K or MPC5643L

```
Date: Wed, 28 Jul 2010 19:51:19 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Original
Message-ID: <_4GdnfJOAozvX83RnZ2dnUVZ_oWdnZ2d@giganews.com>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
QxWmsbdq1xbB1I8gznc238pw1IkWgu1v3sd1m9R63+Gg06iN60ZnqvNTR4VQqXIPRnMFcpf2GVCqkYS!
u4lC4kNkwean7UlmH2voGMg4/LaQoNnP/QkmqEgar2rsPRmLqTFTDrjgOfp6cEajC2gbpWaZFw==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3669
```

Does have a link for an evaluation kit with free software for freescale
MPC5675K or MPC5643L?

Regard;

Leland C. Scott
KC8LDO

"We are not anti-immigrant, we are
pro-immigrant. The government is more
concerned about people making
counterfeit Gucci handbags than people
making counterfeit Social Security cards."

MIKE CUTLER

```
From -5629771875035835004
X-Google-Thread: fc2a5,5655c00701861e6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 29 Jul 2010 08:57:14 -0500
Date: Thu, 29 Jul 2010 06:57:08 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I don't see much point to continuing this hobby... it's just not fun
anymore.
```

```
Message-ID: <rL-2907100657080001@10.0.1.7>
References: <2194ca8b-4920-44ad-b6d4-b09afeb75440@m35g2000prn.googlegroups.com>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 23
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-bW1WKLO8iz6BLhqq1QFJOfQWBasHR9FYX/TDrZTmj+0pHG/
qA3RmF0sukC5lMG62ZqtRTFaDqFuNyHS!
zG7HMT4qMhIOmyH1+r8VlMzrQCeKNmSxCYctfeGyLlhTQTzQBclWVhkF+08Z3M2yXw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3670

In article
<2194ca8b-4920-44ad-b6d4-b09afeb75440@m35g2000prn.googlegroups.com>, The
Eternal Squire <eternalsquire@hotmail.com> wrote:

>To whom it may concern,
>
>I had been an electrical engineer and computer programmer who has now
>been jobless for five years now.
>
>I find it extremely ironic that the very hobby which helped me escape
>from an abusive family is now a place where nobody really cares.
>
>I hear it on the HF bands.  On the low side, people are keying down
>left and right without even identifying themselves or even bothering
>to check if people are calling CQ first.   On the high side, I hear
>lots of obscenities, lots of crude speech, ...

��  It seems to me that crude speech and ad hominems often comes from
those who did not get enough one-on-one attention from an adult
care-provider during their early years.

-- 
Richard L. Measures. AG6K,  805-386-3734, www.somis.org


From -2483626085467403814
X-Google-Thread: fc2a5,5655c00701861e6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-06.dc1.easynews.com.POSTED!not-for-mail
From: John Ferrell <jferrell13@triad.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I don't see much point to continuing this hobby... it's just not fun
anymore.
Message-ID: <636356ldcqkop3fuh29pr4b6tkekd997a3@4ax.com>
```

```
References: <2194ca8b-4920-44ad-b6d4-b09afeb75440@m35g2000prn.googlegroups.com>
<Xns9DC38425989D8VeebleFetzer@216.250.188.140>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 20
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Thu, 29 Jul 2010 11:06:10 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:3671

BPSK31 is usually that waqy too! A few canned macros chain together to
maake a QSO. I have had some very enjoyable rag chews though.


On 28 Jul 2010 17:59:26 GMT, Bert Hyman <bert@iphouse.com> wrote:

>In news:2194ca8b-4920-44ad-b6d4-b09afeb75440@m35g2000prn.googlegroups.com
>The Eternal Squire <eternalsquire@hotmail.com> wrote:
>
>> I hear it on the HF bands.  On the low side, people are keying down
>> left and right without even identifying themselves or even bothering
>> to check if people are calling CQ first.   On the high side, I hear
>> lots of obscenities, lots of crude speech, and lots of Tea Party
>> monologues.
>
>Sounds like you need to switch to contesting and/or DXing, preferably using
>CW.
>
>That way you don't actually have to talk to anyone.
John Ferrell W8CCW


From 224338218912639650
X-Google-Thread: fc2a5,5655c00701861e6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!j8g2000yqd.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I don't see much point to continuing this hobby... it's just not
     fun anymore.
Date: Thu, 29 Jul 2010 11:19:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 45
Message-ID: <ced2c444-2abd-4772-8c4e-e0906d6b7eb6@j8g2000yqd.googlegroups.com>
References: <2194ca8b-4920-44ad-b6d4-b09afeb75440@m35g2000prn.googlegroups.com>
NNTP-Posting-Host: 155.178.6.19
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1280427579 9007 127.0.0.1 (29 Jul 2010 18:19:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 29 Jul 2010 18:19:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j8g2000yqd.googlegroups.com; posting-host=155.178.6.19;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.8)
     Gecko/20100722 Firefox/3.6.8,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3672
```

On Jul 26, 2:27=A0am, The Eternal Squire <eternalsqu...@hotmail.com>
wrote:

> To whom it may concern,
>
> I had been an electrical engineer and computer programmer who has now
> been jobless for five years now.
>
> I find it extremely ironic that the very hobby which helped me escape
> from an abusive family is now a place where nobody really cares.
>
> I hear it on the HF bands. =A0On the low side, people are keying down
> left and right without even identifying themselves or even bothering
> to check if people are calling CQ first. =A0 On the high side, I hear
> lots of obscenities, lots of crude speech, and lots of Tea Party
> monologues.
>
> CQ and 73 magazines have folded. =A0There are very seldom any new
> building projects on QST. =A0 The USENET groups for ham radio are pretty
> much flooded with porn.
>
> Where have all the people gone?
>
> If there's anyone left who is interested: =A0I have a 100 Mhz analogue
> scope, several antique signal generators, a circa 1950's analogue
> signal analyzer, an FT101EE transceiver, and about 50 pounds of
> electronic components and samples.
>
> I'm ready to walk away from my hobby for $1000. =A0I'm willing to do it
> now rather than wait for my family to attempt to conduct an estate
> sale for pennies on the dollar.
>
> Anyone interested please contact me here and we'll exchange email
> addresses.
>
> The Eternal Squire

At this point in your life what do you consider fun. I know I have a
number of varied interest but at one time I was very much centered on
amateur radio and before that hi fidelity ,photography and quite a

large number of other interest. Each became boring after a while as I centered on one at a time. Today I am interested in just about all of those hobbies and others because there is no central all consuming one.

Jimmie

```
From -4166429671937840756
X-Google-Thread: fc2a5,211078af054e2bcb,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y12g2000prb.googlegroups.com!not-for-
mail
From: BASS <dalermehandi9247@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: MESMARISING VIDEOS
Date: Fri, 30 Jul 2010 02:17:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 34
Message-ID: <b8311869-65b7-494d-b5cd-5eb37fe2051e@y12g2000prb.googlegroups.com>
NNTP-Posting-Host: 117.199.247.250
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1280481436 27971 127.0.0.1 (30 Jul 2010 09:17:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 30 Jul 2010 09:17:16 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y12g2000prb.googlegroups.com; posting-host=117.199.247.250;
     posting-account=ChMvegkAAADX5lcnTEWruk43MP3_cJY6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.8)
     Gecko/20100722 Firefox/3.6.8,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3673
```

KATRINA KAIF BATH ROOM VIDEO

http://hotvideosee.blogspot.com/2010/07/katrina-in-bath.html

MUMAITH KHAN HOT SEXY PHOTO

http://hotvideosee.blogspot.com/2010/03/hot-photo-5_27.html

PRIYAMANI SEXY PHOTO

http://hotvideosee.blogspot.com/2010/03/hot-photo-6.html

HOT&SEXY AUNTY IN A ROMANTIC FEEL

http://hotvideosee.blogspot.com/2010/03/hot-photo-3.html

FOR HOT HEROINES PHOTOS

http://hotheroinesphoto.blogspot.com

AISHWARIYARAI HOT EXPOSING PHOTO

http://hotheroinesphoto.blogspot.com/2010/06/aishwariyarai-hot-photo.html

ANKITHA IN A TUB BATH

http://hotheroinesphoto.blogspot.com/2010/06/ankitha-in-tub-bath.html

TO SEE 100 HOT PHOTO GALLERIES

http://hotheroinesphoto.blogspot.com

```
From 8956374103691241671
X-Google-Thread: fc2a5,e395246d1863d97e,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!f42g2000yqn.googlegroups.com!not-for-
mail
From: fitz <zeusrdx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: "a new cosmology" from W2YDW
Date: Fri, 30 Jul 2010 10:22:01 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <7795a082-22f7-4580-a64f-2765a64b67b9@f42g2000yqn.googlegroups.com>
NNTP-Posting-Host: 204.116.59.57
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1280510522 14582 127.0.0.1 (30 Jul 2010 17:22:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 30 Jul 2010 17:22:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f42g2000yqn.googlegroups.com; posting-host=204.116.59.57;
     posting-account=A451vgoAAABycJv5ugpkfX8QG96-xuRZ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0;
     Trident/4.0; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
     3.0.30618; yie8),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3674
```

"a new cosmology"

Fitzpatrick offers us a new cosmology that solves a lot of problems:

We know something epochal happened 10 to 15 billion years ago because of the Cosmic Microwave Background Radiation (CMBR).

(click link):

http://www.amperefitz.com/fitzcos.htm

Science!

```
From 5493136665318431062
X-Google-Thread: fcc6e,19db209159aa102e,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,19db209159aa102e,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,19db209159aa102e,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,19db209159aa102e,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,19db209159aa102e,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,19db209159aa102e,start
X-Google-NewGroupId: yes
X-Google-Thread: 10e8ad,19db209159aa102e,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,19db209159aa102e,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf
6,gid8f86f75953,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news-out.readnews.com!news-xxxfer.readnews.com!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1277964001@panix.com>
Followup-To: poster
Date: 1 Aug 2010 02:00:03 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Sep 2010 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1280642401@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
```

X-Trace: reader1.panix.com 1280642403 21173 166.84.1.2 (1 Aug 2010 06:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 1 Aug 2010 06:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
Xref: g2news1.google.com rec.radio.amateur.antenna:17726 rec.radio.amateur.dx:678 rec.radio.amateur.equipment:2148 rec.radio.amateur.homebrew:3675 rec.radio.amateur.misc:5148 rec.radio.amateur.policy:27800 rec.radio.amateur.space:365 rec.radio.info:1611

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may

still choose to reject articles crossposted to any alt.* newsgroup with
an inappropriate name, including obscene language, embedded
name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.

```
From 3878722742102890414
X-Google-Thread: fc2a5,4ec787d8659f81fa,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.brightview.co.uk!news.brightview.co.uk.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 01 Aug 2010 07:52:05 -0500
From: "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Relay Power On Circuit
Date: Sun, 1 Aug 2010 13:52:06 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <3eudneKtAJFo8MjRnZ2dnUVZ8o2dnZ2d@brightview.co.uk>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-J3zdg+djq2IY0xILhKQy2g2tv25uAYSWxeIZ+/
kh3n3muTmOrT30zKg5K8DYObAwdbR3YI64vQDkpnr!Y7RmyeA5VxvQ9TYazvfsVlQVXmPWWisQ/wM/
u8tdeOfxAPk+X7OSYzKLmOGJjXhOh7ME36/88tiY!uxvoTbmARQucQe+23b80zRGEr9o=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3676
```

Hello,

A while ago in RadCom there was a circuit diagram for a power supply on-off switch which allowed a large current load to be switched on and off using a small push button switch. The circuit used a relay which was switched on by the push button which was across the relay contacts. I can't find the circuit diagram anywhere. Could someone please send me the diagram.

JOHN

--
~~~~~~~~~~~~~~~~~~~~~~~~~~
UK broadband from just �6.49/month
                ----   OR   ----
~~~~~~~~~~~~~~~~~~~~~~~~~~

```
broadband+phone from �17.74/month
[inc. line rental+weekend/evening calls]
                   ------------
see www.wells10000.plus.com for info
~~~~~~~~~~~~~~~~~~~~~~~~~~





From -1296536554504772274
X-Google-Thread: fc2a5,4ec787d8659f81fa
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!y32g2000prc.googlegroups.com!not-for-
mail
From: Gary <jgboyles@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Relay Power On Circuit
Date: Sun, 1 Aug 2010 14:00:25 -0700 (PDT)
Organization: http://groups.google.com
Lines: 34
Message-ID: <df94eb49-32a5-47c1-98de-87e23c1bb81a@y32g2000prc.googlegroups.com>
References: <3eudneKtAJFo8MjRnZ2dnUVZ8o2dnZ2d@brightview.co.uk>
NNTP-Posting-Host: 74.183.188.62
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1280696425 12864 127.0.0.1 (1 Aug 2010 21:00:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 1 Aug 2010 21:00:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y32g2000prc.googlegroups.com; posting-host=74.183.188.62;
     posting-account=EDccDAkAAAABP46fNoIwHp5AsVAkR7WJ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
     Trident/4.0; GTB6.5; SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
     3.5.30729; InfoPath.2; .NET CLR 3.0.30729; .NET4.0C),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3677

On Aug 1, 7:52=A0am, "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
wrote:
> Hello,
>
> A while ago in RadCom there was a circuit diagram for a power supply on-o=
ff
> switch which allowed a large current load to be switched on and off using=
 a
> small push button switch. =A0The circuit used a relay which was switched =
on by
> the push button which was across the relay contacts. =A0I can't find the
> circuit diagram anywhere. =A0Could someone please send me the diagram.
>
```

> JOHN
>
> --
> ~~~~~~~~~~~~~~~~~~~~~~~~~~
> UK broadband from just =A36.49/month
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 ---- =A0 OR =A0 ----
> broadband+phone from =A317.74/month
> [inc. line rental+weekend/evening calls]
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0------------
> seewww.wells10000.plus.comfor info
> ~~~~~~~~~~~~~~~~~~~~~~~~~~

Hi John, If the pushbutton was across relay contacts it must be a
momentary contact type, and you would need a second pushbutton in
series with the first one to drop out the relay (turn off). This
scheme is used often in motor starter controls where one switch is
"start" and the other is"stop". You could use a push-on push-off
pushbutton and wire it in series with the relay coil, and just use one
switch.

Gary N4AST

From 1104123574736476399
X-Google-Thread: fc2a5,4ec787d8659f81fa
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!k1g2000prl.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Relay Power On Circuit
Date: Sun, 1 Aug 2010 14:25:27 -0700 (PDT)
Organization: http://groups.google.com
Lines: 47
Message-ID: <407abffd-a084-4d13-b31b-60b067618b5c@k1g2000prl.googlegroups.com>
References: <3eudneKtAJFo8MjRnZ2dnUVZ8o2dnZ2d@brightview.co.uk>
     <df94eb49-32a5-47c1-98de-87e23c1bb81a@y32g2000prc.googlegroups.com>
NNTP-Posting-Host: 71.68.19.231
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1280697927 13891 127.0.0.1 (1 Aug 2010 21:25:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 1 Aug 2010 21:25:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k1g2000prl.googlegroups.com; posting-host=71.68.19.231;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.8)
     Gecko/20100722 Firefox/3.6.8 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3678

```
On Aug 1, 5:00=A0pm, Gary <jgboy...@aol.com> wrote:
> On Aug 1, 7:52=A0am, "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
> wrote:
>
>
>
> > Hello,
>
> > A while ago in RadCom there was a circuit diagram for a power supply on=
-off
> > switch which allowed a large current load to be switched on and off usi=
ng a
> > small push button switch. =A0The circuit used a relay which was switche=
d on by
> > the push button which was across the relay contacts. =A0I can't find th=
e
> > circuit diagram anywhere. =A0Could someone please send me the diagram.
>
> > JOHN
>
> > --
> > ~~~~~~~~~~~~~~~~~~~~~~~~~~
> > UK broadband from just =A36.49/month
> > =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 ---- =A0 OR =A0 ----
> > broadband+phone from =A317.74/month
> > [inc. line rental+weekend/evening calls]
> > =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0------------
> > seewww.wells10000.plus.comforinfo
> > ~~~~~~~~~~~~~~~~~~~~~~~~~~
>
> Hi John, =A0If the pushbutton was across relay contacts it must be a
> momentary contact type, and you would need a second pushbutton in
> series with the first one to drop out the relay (turn off). =A0This
> scheme is used often in motor starter controls where one switch is
> "start" and the other is"stop". You could use a push-on push-off
> pushbutton and wire it in series with the relay coil, and just use one
> switch.
>
> Gary N4AST

I have a 100amp power supply and I use an automotive starter relay
used in a latching circuit with a NO momentary push-button used for
connecting and a NC push-button used to disconnect. One advantage,
maybe disadvantage to this circuit is that it turns itself off with
power bumps.

Jimmie


From -3301635961097444957
X-Google-Thread: fc2a5,4ec787d8659f81fa
X-Google-NewGroupId: yes
```

```
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!.POSTED!not-for-mail
From: highlandham <highlandham@rfburns.invalid.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Relay Power On Circuit
Date: Sun, 01 Aug 2010 23:17:27 +0100
Organization: A noiseless patient Spider
Lines: 75
Message-ID: <i34rpn$hfa$1@news.eternal-september.org>
References: <3eudneKtAJFo8MjRnZ2dnUVZ8o2dnZ2d@brightview.co.uk>
     <df94eb49-32a5-47c1-98de-87e23c1bb81a@y32g2000prc.googlegroups.com>
<407abffd-a084-4d13-b31b-60b067618b5c@k1g2000prl.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Injection-Date: Sun, 1 Aug 2010 22:17:28 +0000 (UTC)
Injection-Info: mx01.eternal-september.org; posting-host="qa+lTpJ5Gh5dav62s1Ufnw";
     logging-data="17898"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19LS68gCczsCcy/ZBqelemq+yUDY6f9PdY="
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.1.10) Gecko/20100628
Mandriva/3.0.5-1mdv2010.1 (2010.1) Thunderbird/3.0.5
In-Reply-To: <407abffd-a084-4d13-b31b-60b067618b5c@k1g2000prl.googlegroups.com>
Cancel-Lock: sha1:g7h3O68+k1In6fHf/CiAgf4ZArc=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3679

On 01. aug. 2010 22:25, JIMMIE wrote:
> On Aug 1, 5:00 pm, Gary<jgboy...@aol.com>  wrote:
>> On Aug 1, 7:52 am, "John W"<jrw[no-spam-today-thank-you]@gmx.co.uk>
>> wrote:
>>
>>
>>
>>> Hello,
>>
>>> A while ago in RadCom there was a circuit diagram for a power supply on-off
>>> switch which allowed a large current load to be switched on and off using a
>>> small push button switch.  The circuit used a relay which was switched on by
>>> the push button which was across the relay contacts.  I can't find the
>>> circuit diagram anywhere.  Could someone please send me the diagram.
>>
>>> JOHN
>>
>>> --
>>> ~~~~~~~~~~~~~~~~~~~~~~~~~~
>>> UK broadband from just �6.49/month
>>>                  ----   OR   ----
>>> broadband+phone from �17.74/month
>>> [inc. line rental+weekend/evening calls]
>>>                     ------------
>>> seewww.wells10000.plus.comforinfo
>>> ~~~~~~~~~~~~~~~~~~~~~~~~~~
```

>>
>> Hi John, If the pushbutton was across relay contacts it must be a
>> momentary contact type, and you would need a second pushbutton in
>> series with the first one to drop out the relay (turn off). This
>> scheme is used often in motor starter controls where one switch is
>> "start" and the other is"stop". You could use a push-on push-off
>> pushbutton and wire it in series with the relay coil, and just use one
>> switch.
>>
>> Gary N4AST
>
> I have a 100amp power supply and I use an automotive starter relay
> used in a latching circuit with a NO momentary push-button used for
> connecting and a NC push-button used to disconnect. One advantage,
> maybe disadvantage to this circuit is that it turns itself off with
> power bumps.
>
> Jimmie

=========================
Haven't seen the referred circuit diagramme.
But if the relay coil is nominally 12V-DC ,the push button (make) 'on'
switch is at 230/115 AC parallel with a relay NO contact ,in series with
the AC supply to the transformer and relay coil is in series with the
push button 'off' switch connected to the say 13.8V-DC output .
If 'on' switch is pushed, AC power is fed to transformer --> when there
is a DC output the relay energises ----> the NO relay contact in the AC
power line closes and the 'on' pushbutton can be released
If the 'off' switch is pushed (break contact) the relay is de-energised
and AC power is removed since the relay contact in the AC power line opens.

If there is a power bump ,the charged elcos in the PSU will prevent the
relay to de-energise immediately.

All this of course is valid for a PSU with a DC output of 13.8 V
A say 24 V-DC PSU would need a relay with a 24 V coil.

For an increased duration power bump protection a lower voltage relay
coil can be used in series with a suitable resistor and a suitable elco
introducing a time delay . For immediate shutdown the 'off' switch
should be in series with the relay coil NOT including the elco connection.

The advantage of having the relay coil at PSU output level is that in
the event of an internal fuse blowing (through for example a crowbar
over-voltage protection system) the AC power to the transformer will
also be removed .

Frank   GM0CSZ / KN6WH

From 6166757879404868218
X-Google-Thread: fc2a5,4ec787d8659f81fa

```
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!l14g2000yql.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Relay Power On Circuit
Date: Mon, 2 Aug 2010 13:53:08 -0700 (PDT)
Organization: http://groups.google.com
Lines: 40
Message-ID: <500ecd8b-72a5-41cf-85a1-35b50bc00417@l14g2000yql.googlegroups.com>
References: <3eudneKtAJFo8MjRnZ2dnUVZ8o2dnZ2d@brightview.co.uk>
NNTP-Posting-Host: 99.181.110.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1280782388 31584 127.0.0.1 (2 Aug 2010 20:53:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 2 Aug 2010 20:53:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l14g2000yql.googlegroups.com; posting-host=99.181.110.71;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.80 (Windows NT 5.1; U; en) Presto/2.6.30
     Version/10.60,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3680
```

Hey OM:

I tell you about printed material. The publishers deliberately put in
mistakes. Six months down the road they will publish a correction.

They don't want just anybody taking their material and duplicating it.
Unless of coarse your'e into reverse engineering then you know they
done it to toss off clone wanna be's.

73 OM
de n8zu

On Aug 1, 8:52=A0am, "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
wrote:
> Hello,
>
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> circuit diagram anywhere. =A0Could someone please send me the diagram.
>
> JOHN
>
> --
> ~~~~~~~~~~~~~~~~~~~~~~~~~~
> UK broadband from just =A36.49/month
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 ---- =A0 OR =A0 ----
> broadband+phone from =A317.74/month
> [inc. line rental+weekend/evening calls]
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0------------
> seewww.wells10000.plus.comfor info
> ~~~~~~~~~~~~~~~~~~~~~~~~~~

From 6007835601664507684
X-Google-Thread: fc2a5,212ee18351de0d1d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 02 Aug 2010 18:58:35 -0500
Message-ID: <4C575BA8.6070307@cox.net>
Date: Mon, 02 Aug 2010 16:58:32 -0700
From: Rob Doyle <doyle@cox.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.11) Gecko/
20100711 Thunderbird/3.0.6
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To: Stuart Longland VK4MSL <me@vk4msl.yi.org>
Subject: Re: DDS/SDR Transceiver Ideas
References: <78790204-4d4e-4d26-829b-54ecb3cd9a25@b4g2000pra.googlegroups.com>
In-Reply-To: <78790204-4d4e-4d26-829b-54ecb3cd9a25@b4g2000pra.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 146
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-SSZ84zVm1WvhQZ/104JdKeL7waTwIEW7FnaYc/jlBKObJyZhYg6xtKvaWgh4a+7Ticn8/
wph8pBMQnu!so7ZozA4Uj5npjZjtb73srxQt23I12RRao0NTSCJ4bnvNho=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3681

On 7/24/2010 1:48 AM, Stuart Longland VK4MSL wrote:
> Hi all...

>
> About 6 months ago we had a storm that blew up my FT-897D transceiver... In short it cooked the microphone circuitry and one of the DDS chips (the one that does carrier sidetone) but miraculously, the finals still seem okay as a strong unmodulated carrier is still produced when attempting to transmit FM.
>
> The set has been replaced on insurance, but I'm looking at the old one as a source of parts for a possible homebrew transceiver project. The plan is to recycle this set, using the remaining good parts and design a new radio using the existing chassis. Why completely DIY? Most SDR kits seem to be made of unobtainium from my prospective ... highly expensive and/or not available directly in this country (which means lots of running around financially... I don't have PayPal or a credit card, and refuse to get either).
>
> At present, I'vze been looking at the BeagleBoard[1] which is a small embedded Linux computer, measuring 3" square. It incorporates a 600MHz TI OMAP CPU with integrated DSP, apparently the latter is capable of processing HD video, so I'd imagine SDR would not be a particularly demanding task. Minikits also sell a DDS kit[2] which I'm thinking of utilising in the frontend to act as an I/Q upconverter/downconverter.
>
> In receive, the signal would be downconverted to some low IF in the range of the onboard audio CODEC, then that demodulated by the onboard zDSP and passed out to a headset (either wired to the CODEC, or maybe USB audio). On transmit, the incoming audio would get baseband-modulated by the DSP, then upconverted.
>
> The exact specifics are still on the drawing board (quite literally), but I'm curious about a few things...
>
> Speaking with Minikits, there was a remark made that mixer's apparently like square wave inputs... I was initially planning that the output from any DDS would have to be passed through a suitable PLL to clean it up and come out with a nice sine. I'm not doubting there's possible wisdom in this other approach, just having trouble understanding how it works in theory, as I understand square waves to be very rich in harmonics, and therefore would surely cause undesirable behaviour in a product detector or AM modulator...
>
> In the future I'll probably use a proper ADC and DAC as the RF input and output to the DSP, but this is pending me figuring out a good way to produce PCBs with the fine trackwork required and means of soldering such small components (the oven here only goes to 250�C). Hence why the initial phase will probably use the existing audio CODEC (which should be good for 48kHz sample rates).
>
> One characteristic of such devices however; is aliasing... on the ADC, such a filter is usually intended to select the 0-�Fs frequency range... and ozn the DAC, a reconstruction filter does likewise. I'm wondering whether this aliasling phenoma couldn't be used to sample

> the spectrum in �Fs Hz chunks using band-pass filters tuned at some
> harmonic of Fs? Likewise for the DAC, its output apparently contains
> duplicate replicas of the baseband signal... has anyone tried using a
> reconstruction filter tuned at a harmonic of Fs to select one of these
> images?
>
> As for the upconverter/downconverter... the thing that concerns me is
> image rejection. Most ofzz the DDS chips quite easily handle 0-30MHz,
>z and so there I'll probably do it direct-conversion into the CODEC or
> ADC. However, for 6m, 2m, and 70cm... if the DDS goes up to 30MHz,
> then it seems the sensible thing to do is to use an IF to downconvert
> that to the 0-30MHz range. One of the DDS kits I'm looking at uses a
> 100MHz clock, so it seems sensible to use that to generate the IF
> frequencies as well... The dillema is whether to use sideband
> cancellation (Hartley modulator) or to use band-pass filters?
>
> IF frequencies: starting at 100MHz, I can divide that by two, then
> triple to get 150MHz (for 2m IF) and triple again to get 450MHz IF
> (for 70cm and UHF CB). For 6m, I simply take the 50MHz divided
> source, and divide by two again to get 25MHz.
>
> From there:
> 50-54MHz: IF at 25MHz... tune the DDS between 25~29 MHz, use a 50MHz
> high-pass filter on input to receiver to reject<25MHz image
> 144-148MHz: IF at 150MHz... tune the DDS between 2~6 MHz, use a 150MHz
> low-pass filter on input to receiver to reject>150MHz image (might be
> a bit tight)
> 420-450MHz: IF at 450MHz... tune DDS between 0-30MHz, use 450MHz low-
> pass filter to reject>450MHz image (probably much too tight)
> 476-478MHz: IF at 450MHz... tune DDS between 26~28 MHz, use 450MHz
> high-pass filter to reject<450MHz image
>
> The two dilemmas I face here:
> - If I use thze conventional method, how does one go about desigining
> the filters with the cutoff required? Some of them are quite tight.
> I might have to re-think the IF frequencies for a couple... but I'd be
> interested to know how others achieve this.
> - The alternative is to use sideband cancellation to select the 30MHz
> above or below the IF. This will require a Hilbert transform filter
> with quite a wide bandwidth... Is this doable or sane?
>
> Regards,
> Stuart Longland (VK4MSL)z

z
Some things to think about:

If you use an Audio Codec as a digitizer, you are probably stuck with a 0 to 20 KHz bandwidth - regardless of the sampling rate. The anti-aliasing low-pass filters are usually built into the Codec.

So - If you have band-limit your IF to 10 KHz using crystal filter and you downconvert to a 10 KHz second IF, your spectrum occupies the spectrum from 5KHz to 15 KHz which is do-able. I prefer a higher speed digitizer.

The issue with the DDS (and PLL) is not a sine wave/square wave issue. The output of the DDS has discrete spurs in it. You can (and should) use a properly designed PLL to remove these DDS spurs.

Once you have a clean LO signal you need to start thinking about your mixer. Some of the highest performing H-mode mixers need a square wave LO input - and use logic gates to get it. Even if you have a very pure sine wave and feed it into a high IP3 diode mixer, the mixer's LO input impedance (caused by the switching diodes) is so non-linear, that you create harmonics in the mixer. In the end, the only perfect mixer is a multiplier - and that's in your DSP.

As you said, you can use controlled aliasing for down-conversion. This technique is called "bandpass sampling". You have to be careful that the various aliased frequencies do not overlap or the original signal cannot be reconstructed.

I like the Beagle board for this type of thing. A 48 KHz sample rate from the CODEC will do just fine.

Regarding sideband modulation and demodulation etc - this is where it gets fun.   It just software. You can try using a sideband filter. The suppressed carrier is at 10 KHz, the lower sideband is below 10 KHz, the upper sideband is above 10 KHz. (Of course you can invert the spectrum depending on how you down-convert.) Different sideband filters bandwidths are just different filter designs. You can try using a Hilbert transformer and sideband cancellation. It probably requires fewer compute cycles.

Rob
WA3TGF

```
From 2212900776377373686
X-Google-Thread: fc2a5,4ec787d8659f81fa
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!goblin1!goblin2!goblin.stu.neva.ru!
aioe.org!not-for-mail
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Relay Power On Circuit
Date: Mon, 02 Aug 2010 22:30:48 -0400
Organization: Aioe.org NNTP Server
Lines: 26
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Message-ID: <fmmck-2888D5.22304702082010@5ad64b5e.bb.sky.com>
References: <3eudneKtAJFo8MjRnZ2dnUVZ8o2dnZ2d@brightview.co.uk>
NNTP-Posting-Host: +kPgKWt88qpuKt9UwoUIVw.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3682

In article <3eudneKtAJFo8MjRnZ2dnUVZ8o2dnZ2d@brightview.co.uk>,
"John W" <jrw[no-spam-today-thank-you]@gmx.co.uk> wrote:

> A while ago in RadCom there was a circuit diagram for a power supply on-off
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> circuit diagram anywhere. Could someone please send me the diagram.

John-

This sounds like a bistable multivibrator using relay logic. Perhaps someone into digital design could figure out how to do it. It probably requires two relays.

I found this at eng-tips.com:

"Ordinary relays can be made into a bistable or "latch" by cross-coupling a spare pair of contacts on the relay to keep the coil energised once the "trigger" (e.g. from a push-switch) ceases. To make things "toggle" alternately you need at least two relays in a cross coupled configuration to break the hold-in contact of the first relay at the next push of the switch."

Fred
K4DII

From 8409612867516983480
X-Google-Thread: fc2a5,4ec787d8659f81fa
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!c10g2000yqi.googlegroups.com!not-for-mail
From: Gary <jgboyles@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Relay Power On Circuit
Date: Tue, 3 Aug 2010 14:30:15 -0700 (PDT)
Organization: http://groups.google.com
Lines: 40
Message-ID: <944d8112-eb3d-4a56-8b67-c7f4368e070d@c10g2000yqi.googlegroups.com>

```
References: <3eudneKtAJFo8MjRnZ2dnUVZ8o2dnZ2d@brightview.co.uk>
     <fmmck-2888D5.22304702082010@5ad64b5e.bb.sky.com>
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Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 3 Aug 2010 21:30:15 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c10g2000yqi.googlegroups.com; posting-host=64.12.117.19;
     posting-account=EDccDAkAAAABP46fNoIwHp5AsVAkR7WJ
User-Agent: G2/1.0
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-mtc-td01.proxy.aol.com[400C7061] (Prism/1.2.1), HTTP/1.1
     cache-mtc-ae15.proxy.aol.com[400C7513] (Traffic-Server/6.1.5 [uScM])
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.1; AOLBuild
     4334.5009; Windows NT 6.0; Trident/4.0; SLCC1; .NET CLR 2.0.50727; Media
     Center PC 5.0; InfoPath.2; .NET CLR 3.5.30729; .NET CLR 3.0.30729;
     .NET4.0C),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3687

On Aug 2, 9:30=A0pm, Fred McKenzie <fm...@aol.com> wrote:
> In article <3eudneKtAJFo8MjRnZ2dnUVZ8o2dn...@brightview.co.uk>,
> =A0"John W" <jrw[no-spam-today-thank-you]@gmx.co.uk> wrote:
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Hi Fred, They have made it simpler these days. You can get a push on-push off pushbutton switch, and use just one relay to achieve bistable operation. Asumming the contacts are open, the first time you push the switch, the contacts close, and stay closed until you push again, at which time they will open. This is done with mechanical do-hickeys in the switch.

Gary N4AST

```
From -5263684350391359303
X-Google-Thread: fc2a5,4ec787d8659f81fa
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!u26g2000yqu.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Relay Power On Circuit
Date: Wed, 4 Aug 2010 19:41:11 -0700 (PDT)
Organization: http://groups.google.com
Lines: 58
Message-ID: <ff3d777b-13f7-483b-84aa-e33339fbdc08@u26g2000yqu.googlegroups.com>
References: <3eudneKtAJFo8MjRnZ2dnUVZ8o2dnZ2d@brightview.co.uk>
     <fmmck-2888D5.22304702082010@5ad64b5e.bb.sky.com> <944d8112-eb3d-4a56-8b67-
c7f4368e070d@c10g2000yqi.googlegroups.com>
NNTP-Posting-Host: 99.181.110.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1280976086 28135 127.0.0.1 (5 Aug 2010 02:41:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 5 Aug 2010 02:41:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u26g2000yqu.googlegroups.com; posting-host=99.181.110.71;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.80 (Windows NT 5.1; U; en) Presto/2.6.30
     Version/10.60,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3689
```

```
On Aug 3, 5:30=A0pm, Gary <jgboy...@aol.com> wrote:
> On Aug 2, 9:30=A0pm, Fred McKenzie <fm...@aol.com> wrote:
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Hey OM::

My g/f has a few of those do hickeys on her neck does that mean she
always stays on?

73 OM
de n8zu


From -8989180217634528689
X-Google-Thread: fc2a5,4ec787d8659f81fa
X-Google-NewGroupId: yes
```

```
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!t26g2000yqt.googlegroups.com!not-for-
mail
From: Gary <jgboyles@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Relay Power On Circuit
Date: Thu, 5 Aug 2010 15:12:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 75
Message-ID: <a24ae8b2-381b-4288-b9c6-181d3e1df6b6@t26g2000yqt.googlegroups.com>
References: <3eudneKtAJFo8MjRnZ2dnUVZ8o2dnZ2d@brightview.co.uk>
     <fmmck-2888D5.22304702082010@5ad64b5e.bb.sky.com> <944d8112-eb3d-4a56-8b67-
c7f4368e070d@c10g2000yqi.googlegroups.com>
     <ff3d777b-13f7-483b-84aa-e33339fbdc08@u26g2000yqu.googlegroups.com>
NNTP-Posting-Host: 74.183.188.62
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1281046333 5766 127.0.0.1 (5 Aug 2010 22:12:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 5 Aug 2010 22:12:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t26g2000yqt.googlegroups.com; posting-host=74.183.188.62;
     posting-account=EDccDAkAAAABP46fNoIwHp5AsVAkR7WJ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0;
     Trident/4.0; GTB6.5; SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
     3.5.30729; InfoPath.2; .NET CLR 3.0.30729; .NET4.0C),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3690

On Aug 4, 9:41=A0pm, raypsi <rborow...@gmail.com> wrote:
> On Aug 3, 5:30=A0pm, Gary <jgboy...@aol.com> wrote:
>
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> Hey OM::
>
> My g/f has a few of those do hickeys on her neck does that mean she
> always stays on?
>
> 73 OM
> de n8zu- Hide quoted text -
>
> - Show quoted text -

Hi OM, That is just plain ol hickeys. Whether she is on all the time
depends on how she got them. A do-hickey is something you know is
there, and you know what it does, but you don't know how it does it.

Example: A CBer might say "I can get the SWRs down on my antenna by
spraying a can of SWR remover on it, but it does better if I put this
do-hickey (tuner) between my kicker and the antenna.

Gary N4AST

```
From 832054907092029548
X-Google-Thread: fcc6e,80199652b2634237,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,80199652b2634237,start
X-Google-NewGroupId: yes
X-Google-Thread: 108122,80199652b2634237,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,80199652b2634237,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,80199652b2634237,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,80199652b2634237,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,80199652b2634237,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf
6,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!novia!news-out.readnews.com!transit3.readnews.com!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1278482701@panix.com>
Followup-To: poster
Date: 7 Aug 2010 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Sep 2010 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1281161101@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1281161102 22439 166.84.1.2 (7 Aug 2010 06:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 7 Aug 2010 06:05:02 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:17814 rec.radio.amateur.dx:684
rec.radio.amateur.equipment:2167 rec.radio.amateur.homebrew:3691
rec.radio.amateur.misc:5166 rec.radio.amateur.policy:27872 rec.radio.info:1624

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
```

URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |
rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

From 3403163733992477093
X-Google-Thread: fc2a5,a27c7fdc8a859e52,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news2.google.com!npeer02.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
nntp.club.cc.cmu.edu!feeder.erje.net!eternal-september.org!feeder.eternal-
september.org!.POSTED!not-for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Hy-Gain BN-86 balun for sale
Date: Mon, 09 Aug 2010 10:34:03 -0500
Organization: A noiseless patient Spider
Lines: 14
Message-ID: <i3p759$rvm$4@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Mon, 9 Aug 2010 15:34:01 +0000 (UTC)
Injection-Info: mx01.eternal-september.org; posting-host="UIT+niVQSv8LIdTphuwBlA";
     logging-data="28662"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19xP6EhS6l7fRIVxjDsIN/D"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.8) Gecko/
20050511 Mnenhy/0.7.2.0
X-Accept-Language: en-us
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 100809-0, 08/09/2010), Outbound message
Cancel-Lock: sha1:7+pwjdemmyA+aVVAEmCfQ6TiIus=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3692

I have a Hy-Gain BN-86 3-30 MHz 1500W 50-ohm balun for sale. I'm
asking $50 for it. The instruction manual can be viewed at:

http://www.thiecom.de/pdf/BN-86.pdf

It can be viewed at:

http://home.comcast.net/~hsknoll/site/?/photos/
&PHPSESSID=29ec62ea0bf1fe4d25e318b011cf0bbf

or

http://tinyurl.com/yktwxpz   click on photo to enlarge it.

Henry   WA0GOZ

From -1326313535580135660
X-Google-Thread: fc2a5,2c82e526d2828338,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: Henry <wa0goz@arrl.net>

Newsgroups: rec.radio.amateur.homebrew
Subject: Instruments for sale
Date: Mon, 09 Aug 2010 10:37:57 -0500
Organization: A noiseless patient Spider
Lines: 39
Message-ID: <i3p7ck$rvm$6@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Mon, 9 Aug 2010 15:37:56 +0000 (UTC)
Injection-Info: mx01.eternal-september.org; posting-host="UIT+niVQSv8LIdTphuwBlA";
     logging-data="28662"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/Hw4jevFW3jN/VOtVeLTuK"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.8) Gecko/20050511 Mnenhy/0.7.2.0
X-Accept-Language: en-us
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 100809-0, 08/09/2010), Outbound message
Cancel-Lock: sha1:xKkwqSjXZkD2E0ZKs0UR412sSUs=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3693

I have the following instruments for sale. They can be viewed at:

http://home.comcast.net/~hsknoll/site/?/photos/&PHPSESSID=29ec62ea0bf1fe4d25e318b011cf0bbf

or

http://tinyurl.com/yktwxpz   click on photo to enlarge it.

===
Continental Specialties Corp. IC Tester Logic Probe LP-1. It has a switch for CMOS, DTL/TTL, and Pulse/Memory. It has led's for Pulse, Low and High.

I'm asking $10 plus shipping.

===
Rustrak recorders for sale.

(3) Model 291 (2 channel) 100 microAmp   1"/hr paper speed

They are 120V AC powered. One extra roll of paper for each is included.

I'm asking $15 each for them plus shipping.

===
Heath model IM-1202 2 1/2 digit VOM for sale. It measures DC/AC voltage and current and ohms.

I'm asking $15 plus postage.

===
Monarch model HF FSL-3 SWR meter for sale.

I'm asking $10 plus shipping

```
===========================================================
Data Precision Model 245 4 digit VOM for sale.  It runs on 120 VAC
and batteries.  It needs batteries. It measures DC/AC volts and current
and ohms.  I'm asking $25 plus shipping.
===========================================================
I have a Heath HM-2102 VHF SWR meter  50-160 MHz
0-25 and 0-250 watts. Very good condition.

I'm asking $45 plus shipping.


From 8597332826523833072
X-Google-Thread: fc2a5,44f34bd79ee106d,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
q22g2000yqm.googlegroups.com!not-for-mail
From: fitz <zeusrdx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: a delayed response to String Theory expert - theoretical physicist
     Michio Kaku
Date: Wed, 11 Aug 2010 20:38:01 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <3f663b86-bc7c-4334-9df0-7667b9514998@q22g2000yqm.googlegroups.com>
NNTP-Posting-Host: 204.116.59.59
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1281584281 22741 127.0.0.1 (12 Aug 2010 03:38:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 12 Aug 2010 03:38:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q22g2000yqm.googlegroups.com; posting-host=204.116.59.59;
     posting-account=A451vgoAAABycJv5ugpkfX8QG96-xuRZ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0;
     Trident/4.0; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
     3.0.30618; yie8),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3694

a delayed response to String Theory expert - theoretical physicist
Michio Kaku

Do the strings of String Theory act like standing waves or waves that
transmit energy?

(click link):

http://www.amperefitz.com/mwmk.htm

For those who like Science!
```

From -7989017232750369359
X-Google-Thread: fc2a5,4ec787d8659f81fa
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.brightview.co.uk!news.brightview.co.uk.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 15 Aug 2010 03:45:06 -0500
From: "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <3eudneKtAJFo8MjRnZ2dnUVZ8o2dnZ2d@brightview.co.uk>
Subject: Re: Relay Power On Circuit
Date: Sun, 15 Aug 2010 09:45:04 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <Ae6dnWXim_yPNPrRnZ2dnUVZ7vednZ2d@brightview.co.uk>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-gPmYCZAC1JMtR/
FfrA3p5UqEFnAE8Y5szgQeWKg6PvWINRyxuVhtFYonHUvdnPMtGabXQQ383WrOHR7!
jJeaxynJa+QSiEBuiFi45FIuxRn2NlxYfsQG0BQWSnnYtD9KZoNgt4Oe7vP+j+WOOmv4U/sD2QB7!
YMO0Eq9coEK/IQj5Q47Tt0QgDg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3697

Hi folks,

Thank you for all your replies. Some very interesting ideas there.
Certainly food for thought.

Regards,

JOHN

```
--
~~~~~~~~~~~~~~~~~~~~~~~~~~
UK broadband from just �6.49/month
                ----   OR   ----
broadband+phone from �17.74/month
[inc. line rental+weekend/evening calls]
                   ------------
see www.wells10000.plus.com for info
~~~~~~~~~~~~~~~~~~~~~~~~~~
```

From -3622964916427503461
X-Google-Thread: fc2a5,37f5989ac18e2470
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe07.iad.POSTED!4b906575!not-for-mail
From: "NeonGuru" <eugene_77@live.com>
Newsgroups: rec.radio.amateur.homebrew
References: <c95e5a04-9ec5-4ff8-9d30-c21bfe44afbb@k39g2000yqb.googlegroups.com>
Subject: Re: Are all the fundamental forces nothing but simple PHASE relationships?
Lines: 29
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
Message-ID: <Xp3ao.82804$xZ2.57015@newsfe07.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Mon, 16 Aug 2010 04:47:51 UTC
Organization: TeraNews.com
Date: Sun, 15 Aug 2010 21:47:42 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:3698

Its the shape of space-time which determins gravity, force, energy, and mass? There's no other relationship just structures? Experiment holds this truth!

NeonGuru

"fitz" <zeusrdx@yahoo.com> wrote in message news:c95e5a04-9ec5-4ff8-9d30-c21bfe44afbb@k39g2000yqb.googlegroups.com...
> Are all the fundamental forces nothing but simple PHASE relationships?
>
> "in phase attract"
>
> Type those three words - above - into Google (Include quote marks) to
> learn not only the basics of electricity but how all the fundamental
> forces work.
>
> Or click the following link that will give you the same page in
> Google.
> http://www.google.com/search?hl=en&source=hp&q=%22in+phase+attract%22&btnG=Google+Search
>
> Not only do all electric motors obey these phase laws but this entire
> universe does as well.

```
>
> (Click link below.)
> http://www.amperefitz.com/in.phase.attract.htm
>
>
```

```
From -1778534074411402524
X-Google-Thread: fc2a5,212ee18351de0d1d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!195.96.0.7.MISMATCH!newsfeed.utanet.at!newsfeed01.chello.at!
newsfeed02.chello.at!news.hispeed.ch.POSTED!not-for-mail
Message-ID: <4C68F80F.4070200@arrl.net>
Date: Mon, 16 Aug 2010 10:34:23 +0200
From: HB9DTN <hb9dtn@arrl.net>
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.1.11) Gecko/20100713
Thunderbird/3.0.6
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS/SDR Transceiver Ideas
References: <78790204-4d4e-4d26-829b-54ecb3cd9a25@b4g2000pra.googlegroups.com>
In-Reply-To: <78790204-4d4e-4d26-829b-54ecb3cd9a25@b4g2000pra.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@hispeed.ch
Organization: hispeed.ch
Lines: 107
NNTP-Posting-Host: 84.73.138.236 (84.73.138.236)
NNTP-Posting-Date: Mon, 16 Aug 2010 10:34:24 +0200
X-Trace: 2aa924c68f810f1ec2f4932761
Xref: g2news1.google.com rec.radio.amateur.homebrew:3699

Am 24.07.2010 10:48, schrieb Stuart Longland VK4MSL:
> Hi all...
>
> About 6 months ago we had a storm that blew up my FT-897D
> transceiver... In short it cooked the microphone circuitry and one of
> the DDS chips (the one that does carrier sidetone) but miraculously,
> the finals still seem okay as a strong unmodulated carrier is still
> produced when attempting to transmit FM.
>
> The set has been replaced on insurance, but I'm looking at the old one
> as a source of parts for a possible homebrew transceiver project.  The
> plan is to recycle this set, using the remaining good parts and design
> a new radio using the existing chassis.  Why completely DIY?  Most SDR
> kits seem to be made of unobtainium from my prospective ... highly
> expensive and/or not available directly in this country (which means
> lots of running around financially... I don't have PayPal or a credit
```

> card, and refuse to get either).
>
> At present, I've been looking at the BeagleBoard[1] which is a small
> embedded Linux computer, measuring 3" square. It incorporates a
> 600MHz TI OMAP CPU with integrated DSP, apparently the latter is
> capable of processing HD video, so I'd imagine SDR would not be a
> particularly demanding task. Minikits also sell a DDS kit[2] which
> I'm thinking of utilising in the frontend to act as an I/Q upconverter/
> downconverter.
>
> In receive, the signal would be downconverted to some low IF in the
> range of the onboard audio CODEC, then that demodulated by the onboard
> DSP and passed out to a headset (either wired to the CODEC, or maybe
> USB audio). On transmit, the incoming audio would get baseband-
> modulated by the DSP, then upconverted.
>
> The exact specifics are still on the drawing board (quite literally),
> but I'm curious about a few things...
>
> Speaking with Minikits, there was a remark made that mixer's
> apparently like square wave inputs... I was initially planning that
> the output from any DDS would have to be passed through a suitable PLL
> to clean it up and come out with a nice sine. I'm not doubting
> there's possible wisdom in this other approach, just having trouble
> understanding how it works in theory, as I understand square waves to
> be very rich in harmonics, and therefore would surely cause
> undesirable behaviour in a product detector or AM modulator...
>
> In the future I'll probably use a proper ADC and DAC as the RF input
> and output to the DSP, but this is pending me figuring out a good way
> to produce PCBs with the fine trackwork required and means of
> soldering such small components (the oven here only goes to 250�C).
> Hence why the initial phase will probably use the existing audio CODEC
> (which should be good for 48kHz sample rates).
>
> One characteristic of such devices however; is aliasing... on the ADC,
> such a filter is usually intended to select the 0-�Fs frequency
> range... and on the DAC, a reconstruction filter does likewise. I'm
> wondering whether this aliasling phenoma couldn't be used to sample
> the spectrum in �Fs Hz chunks using band-pass filters tuned at some
> harmonic of Fs? Likewise for the DAC, its output apparently contains
> duplicate replicas of the baseband signal... has anyone tried using a
> reconstruction filter tuned at a harmonic of Fs to select one of these
> images?
>
> As for the upconverter/downconverter... the thing that concerns me is
> image rejection. Most of the DDS chips quite easily handle 0-30MHz,
> and so there I'll probably do it direct-conversion into the CODEC or
> ADC. However, for 6m, 2m, and 70cm... if the DDS goes up to 30MHz,
> then it seems the sensible thing to do is to use an IF to downconvert
> that to the 0-30MHz range. One of the DDS kits I'm looking at uses a
> 100MHz clock, so it seems sensible to use that to generate the IF
> frequencies as well... The dillema is whether to use sideband

> cancellation (Hartley modulator) or to use band-pass filters?
>
> IF frequencies: starting at 100MHz, I can divide that by two, then
> triple to get 150MHz (for 2m IF) and triple again to get 450MHz IF
> (for 70cm and UHF CB). For 6m, I simply take the 50MHz divided
> source, and divide by two again to get 25MHz.
>
> From there:
> 50-54MHz: IF at 25MHz... tune the DDS between 25~29 MHz, use a 50MHz
> high-pass filter on input to receiver to reject <25MHz image
> 144-148MHz: IF at 150MHz... tune the DDS between 2~6 MHz, use a 150MHz
> low-pass filter on input to receiver to reject >150MHz image (might be
> a bit tight)
> 420-450MHz: IF at 450MHz... tune DDS between 0-30MHz, use 450MHz low-pass filter to reject >450MHz image (probably much too tight)
> 476-478MHz: IF at 450MHz... tune DDS between 26~28 MHz, use 450MHz
> high-pass filter to reject <450MHz image
>
> The two dilemmas I face here:
> - If I use the conventional method, how does one go about desigining
> the filters with the cutoff required? Some of them are quite tight.
> I might have to re-think the IF frequencies for a couple... but I'd be
> interested to know how others achieve this.
> - The alternative is to use sideband cancellation to select the 30MHz
> above or below the IF. This will require a Hilbert transform filter
> with quite a wide bandwidth... Is this doable or sane?
>
> Regards,
> Stuart Longland (VK4MSL)

Stuart,

Maybe I'm a little late. I found some interesting information on the
High Performance Software Defined Radio (HPSDR) project website (see
http://openhpsdr.org). All is done under open source design policy, so
you will find detailed information about their SDR hard- and software.

vy 73 de Lorenz, HB9DTN

From -9200795702815263072
X-Google-Thread: fc2a5,51f9906b16fefa32,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-01.dc1.easynews.com.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Meters for sale (LOTS OF THEM)
From: Eugene Rippen <soundval@muchstuff.com>
Organization: Your Company
Message-ID: <Xns9DD6BFDFAEBEEer7373@69.16.186.8>

User-Agent: Xnews/5.04.25
Lines: 126
X-Complaints-To: abuse@easynews.com
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Tue, 17 Aug 2010 01:51:49 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:3701

20 meters this time (I have about 500 more.).
All have tested good movements.
Shipping will be calculated based on 14 lbs.
PayPal and USPS money orders are like cash.
Personal checks, I wait to see if they are honored.

I also have about 500 more which today at this time I will sell them ALL at the rate of $4 each.
The list of them is at
http://www.muchstuff.com/meters/metersfs.htm
My estimate is that i can get them down to about 20 file size boxes, and about 350 lbs.

I am not offering these meters individually at this time.
They are in a storage a few mile from here.

500 are round and square and large and small, and the list at
http://www.muchstuff.com/meters/mtrsfs.htm is better than 98% accurate, but these 20 are part of that list.
These 20 below were in one carton I picked at random.)

Eugene Rippen, WB6SZS
Auburn, CA
soundval@muchstuff.com

(Since some of these require 1/8 inch over 2 inch diameter holes,
I don't measure each one, I just say 2 1/8 inches.)

WESTON 506 meter 25 DCma & 100 & 200 scales also.
WESTON 506 meter. Scale is 25, 100 & 200 DCma.
Works. Panel hole should be 2 1/8 inches Diameter.
http://www.muchstuff.com/meters561-585/m0576.jpg

GE 8AW41 meter Scale is 15 V. AC-DC
Type AW-41. Works. Panel hole should be 2 1/8 inches Diameter.
http://www.muchstuff.com/meters561-585/m0579.jpg

GE 8DW552ACE8 meter 2 A. RF
Type DW-52. Thermocouple. Scale is 2 A. RF. Works.
Works. Panel hole should be 2 1/8 inches Diameter.
http://www.muchstuff.com/meters561-585/m0580.jpg

Roller-Smith meter 50 DC microA. & DB scale.
Model DOHRG. 5000 ohms. Also has a DB scale: -4 to 0 to 3 dB. Sealed.

Works. Panel hole should be 2 1/8 inches Diameter.
http://www.muchstuff.com/meters561-585/m058.jpg

Westinghouse meter. Scale is 300 DCma.
Works. Panel hole should be 2 1/8 inches Diameter.
http://www.muchstuff.com/meters561-585/m0581.jpg

Roller-Smith meter. Scale is 300 DCV.
Type: DDHR
Works. Panel hole should be 2 1/8 inches Diameter.
http://www.muchstuff.com/meters561-585/m0582.jpg

GE 8DW41 meter scale is 200 DCma
Type DW-41.
Works. Panel hole should be 2 1/8 inches Diameter.
http://www.muchstuff.com/meters561-585/m0577.jpg

Simpson meter. Scale is 50 VDC
Note that the bezel is shaved on the right side.
Works. Panel hole should be 2 1/8 inches Diameter.
http://www.muchstuff.com/meters561-585/m0578.jpg

Westinghouse meter. Scale is 300 DCma.
Style: 1209738. USN Type CAY-22238A
Works. Panel hole should be 2 1/8 inches Diameter.
http://www.muchstuff.com/meters561-585/m0575.jpg

Burlington 321 meter. 50 DCma
Sealed.
Works. Panel hole should be 2 1/8 inches Diameter.
http://www.muchstuff.com/meters561-585/m0570.jpg

Triplett 221 meter. Scale is 25 DCma
Works. Panel hole should be 2 1/8 inches Diameter.
http://www.muchstuff.com/meters561-585/m0565.jpg

Triplett 221-T meter. Scale is 5 DCma
Works. Panel hole should be 2 1/8 inches Diameter.
http://www.muchstuff.com/meters561-585/m0572.jpg

WESTON 507 meter. Scale is 10 RF Amps.
Scale says: "Antenna Current Indicator".
Works. Panel hole should be 2 1/8 inches Diameter.
http://www.muchstuff.com/meters561-585/m0571.jpg

GE ABA8 meter. Scale is 200 DCma.
Type DW-41
Works. Panel hole should be 2 1/8 inches Diameter.
http://www.muchstuff.com/meters561-585/m0574.jpg

Million meter. Tube checker scale "GOOD - BAD"
Radio Television Laboratories. This was for the tube testers that they made

named "Million"
There is a crack at mounting hole, is picture.
Works. Panel hole should be 2 1/8 inches Diameter.
http://www.muchstuff.com/meters561-585/m0563.jpg

Westinghouse meter. Full scale is 0.25 Amps. "Antenna Current"
Type NT-33. Scale is marked 0 to 5 (no units epressed). Style 11640038.
"Antenna Current" on scale. Scale says: "F.S.= 0.25 Amps"
Works. Panel hole should be 2 1/8 inches Diameter.
http://www.muchstuff.com/meters561-585/m0562.jpg

Triplett 221 meter. Scale is 150 DCma.
Works. Panel hole should be 2 1/8 inches Diameter.
http://www.muchstuff.com/meters561-585/m0566.jpg

Triplett 221 2 DC Amps
Works. Panel hole should be 2 1/8 inches Diameter.
http://www.muchstuff.com/meters561-585/m0568.jpg

WESTON 506 Meter. 500 DC ma
Works. Panel hole should be 2 1/8 inches Diameter.
http://www.muchstuff.com/meters561-585/m0564.jpg

Phaostron Z-1183 meter. "Ruggedized - Sealed"
Scale says 0 to 9 "Nautical Miles"
Works. Panel hole should be 2 1/8 inches Diameter.
http://www.muchstuff.com/meters561-585/m0561.jpg

```
From -5403288814838070868
X-Google-Thread: fc2a5,ab859f0a6d4e440,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
newsfeed3.dallas1.level3.net!news.level3.com!bloom-beacon.mit.edu!npeer.de.kpn-
eurorings.net!npeer-ng0.de.kpn-eurorings.net!news.glorb.com!news2.glorb.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 20 Aug 2010 11:10:39 -0500
From: uksimon <uksimon.6b45f0c@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Frequency synthesizer for Ocean Boy 400
Date: Fri, 20 Aug 2010 14:53:24 +0000
Message-ID: <uksimon.6b45f0c@radiobanter.com>
Organization: RadioBanter.com
Lines: 11
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
hXXv9icDYmXwi28wTZNAVQiSZ8JqVo9R+xv74dDqrFKXKCwIqGNZ9DzpbV77k3zidEctFvpH9LwrsKH!
l9xsMI1vXvV8X30RbwfL5CBLn682MyhNMCb0n/WyExUAk0oWoP576n/DMVouz46CSnOjMcyHZQ7u!
```

9pZ1RQ==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Lines: 3
Xref: g2news1.google.com rec.radio.amateur.homebrew:3704

Would anyone happen to know what frequency synthesizer and PLL IC the Grundig Ocean boy 400 uses?

I want to change the tuning step on SW to 1 kHz as the 5kHz step is a bit coarse.

--
uksimon

From 234200623123457862
X-Google-Thread: fc2a5,4ec787d8659f81fa
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 20 Aug 2010 11:54:39 -0500
Date: Fri, 20 Aug 2010 11:55:05 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.8) Gecko/20100802 Thunderbird/3.1.2
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Relay Power On Circuit
References: <3eudneKtAJFo8MjRnZ2dnUVZ8o2dnZ2d@brightview.co.uk> <Ae6dnWXim_yPNPrRnZ2dnUVZ7vednZ2d@brightview.co.uk>
In-Reply-To: <Ae6dnWXim_yPNPrRnZ2dnUVZ7vednZ2d@brightview.co.uk>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <57idnQ7i74_SLvPRnZ2dnUVZ5radnZ2d@giganews.com>
Lines: 19
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-8GfThEAW9ITHPPc3Mviq0VJj+bVb197OGFAWbSZnDYQHdmHAzKRlZNPzFIUqwiRifNHSzLeRSpUeJZo!Gjpw4vSDcwTFs4FKbGcjzoedzTbTeqPJiTz4pWyKGgICuVQZLMq758Wo0Bg6hzHyZB8qNGQhIQ==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html

```
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3705

On 8/15/2010 3:45 AM, John W wrote:
> Hi folks,
>
> Thank you for all your replies.  Some very interesting ideas there.
> Certainly food for thought.
>
> Regards,
>
> JOHN
>
I was one of several who put some thought into this application.
The leading suggestion in my view, was the push to make, push to break
button, often seen for house lamp standards. These cost less than
relays. So one button, one relay, and you are set.
But you are tethered to a particular button design profile. if you were
looking for a uniform button profile to match others - this is not the
answer.

Brian W



From -4110777920480852405
X-Google-Thread: fc2a5,9a59abfd0a828816,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
newshosting.com!newsfeed.neostrada.pl!unt-exc-02.news.neostrada.pl!unt-spo-
b-01.news.neostrada.pl!news.neostrada.pl.POSTED!not-for-mail
Date: Sat, 21 Aug 2010 16:30:26 +0200
From: Atlantis <marekw1986NOSPAM@wp.pl>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; pl; rv:1.8) Gecko/20051201
Thunderbird/1.5 Mnenhy/0.7.3.0
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: I am looking for a project of homemade AM superhet
Content-Type: text/plain; charset=ISO-8859-2; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 11
Message-ID: <4c6fe1b4$0$22803$65785112@news.neostrada.pl>
Organization: Telekomunikacja Polska
NNTP-Posting-Host: 83.4.67.168
X-Trace: 1282400692 unt-rea-b-01.news.neostrada.pl 22803 83.4.67.168:10996
X-Complaints-To: abuse@news.neostrada.pl
Xref: g2news1.google.com rec.radio.amateur.homebrew:3707
```

Recently I've build several FM broadcast band superheterodyne receivers using e.g. NE602, SO42, A223D, uA3089PC ICs, ceramic filters and few coils. Now I am looking for similar project for AM broadcasting band. By "AM band" I mean both: Long Waves and Medium Waves.
I prefer projects with stages on separate ICs/transistors (in opposition to "all in one chip" solution). First ferrite rod antenna, then mixer/oscillator stage (on IC or few transistors), ceramic filter, IF amplifier (on IC), AM demodulator and AF stage.

I am looking for complete, tested solutions only (description, schematics, PCB). Do You know something worth of recommendation?

```
From 6043649191843865912
X-Google-Thread: fc2a5,9a59abfd0a828816
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 21 Aug 2010 18:24:50 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4c6fe1b4$0$22803$65785112@news.neostrada.pl>
Subject: Re: I am looking for a project of homemade AM superhet
Date: Sat, 21 Aug 2010 18:24:50 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Response
Message-ID: <iOudnT-5TtDf_e3RnZ2dnUVZ_r2dnZ2d@giganews.com>
Lines: 41
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-oZhZUItSxMhRd3pY2pkHLcQn1hFEdgZURSJ7uNVWWesICMb1J5/JgnKE/
qAlHYiuPlBPBLy4Zdm3Ikm!lZAlMWiwBZikVfIQrD8V9WsJsNKMrzCAgFBHcGDBvhgB0hlpG9/uqt/
vmf9IdXCAHbIxEUoivQtD
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3708
```

Atlantis wrote:

> Recently I've build several FM broadcast band superheterodyne
> receivers using e.g. NE602, SO42, A223D, uA3089PC ICs, ceramic
> filters and few coils. Now I am looking for similar project for AM
> broadcasting band. By "AM band" I mean both: Long Waves and Medium
> Waves. I prefer projects with stages on separate ICs/transistors (in
> opposition to "all in one chip" solution). First ferrite rod antenna,

> then mixer/oscillator stage (on IC or few transistors), ceramic
> filter, IF amplifier (on IC), AM demodulator and AF stage.
>
> I am looking for complete, tested solutions only (description,
> schematics, PCB). Do You know something worth of recommendation?

I know that you said that you prefer discrete component designs for your radio project, but I'd like to suggest that you at least take a look at the National LM3820N AM radio chip. BG Micro has them available for $3.00 for a tube of 25 (http://www.bgmicro.com/SPC1001.aspx). The chip is obsolete, but still presents an interesting project. The original National Semi data sheet is available at http://docs.bgmicro.com/pdf/lm3820.pdf. The datasheet gives design and layout (PCB) for several versions of a BCB AM radio. You can be as simple or complex as you wish.

Another web site that you can look at is at http://www.electronics-tutorials.com/receivers/am-radio-receivers.htm. It gives quite a bit of background and theory, including a source for a kit of parts for a receiver project.

BTW, you can get the hard-to-fing RF, IF and Osc inductors from Dan's Small Parts at http://www.danssmallpartsandkits.net/. The web site doesn't have a search function, so you'll have to manually scan thru the listings to find them. Good prices too.

Happy constructing,

--
David
dgminala at mediacombb dot net

From -186674471478456978
X-Google-Thread: fc2a5,9a59abfd0a828816
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx01.iad01.newshosting.com!
newshosting.com!newsfeed.neostrada.pl!unt-exc-02.news.neostrada.pl!unt-spo-
a-01.news.neostrada.pl!news.neostrada.pl.POSTED!not-for-mail
Date: Sun, 22 Aug 2010 11:34:17 +0200
From: Atlantis <marekw1986NOSPAM@wp.pl>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; pl; rv:1.8) Gecko/20051201
Thunderbird/1.5 Mnenhy/0.7.3.0
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I am looking for a project of homemade AM superhet
References: <4c6fe1b4$0$22803$65785112@news.neostrada.pl>

```
<iOudnT-5TtDf_e3RnZ2dnUVZ_r2dnZ2d@giganews.com>
In-Reply-To: <iOudnT-5TtDf_e3RnZ2dnUVZ_r2dnZ2d@giganews.com>
Content-Type: text/plain; charset=ISO-8859-2
Content-Transfer-Encoding: 7bit
Lines: 15
Message-ID: <4c70edca$0$27042$65785112@news.neostrada.pl>
Organization: Telekomunikacja Polska
NNTP-Posting-Host: 83.4.67.168
X-Trace: 1282469322 unt-rea-a-02.news.neostrada.pl 27042 83.4.67.168:14122
X-Complaints-To: abuse@news.neostrada.pl
Xref: g2news1.google.com rec.radio.amateur.homebrew:3709
```

W dniu 2010-08-22 01:24, Dave M pisze:

> National LM3820N AM radio chip. BG Micro has them available for
> $3.00 for a tube of 25 The chip is obsolete, but still presents an
> interesting project. (...) The datasheet gives design and layout
> (PCB) for several versions of a BCB AM radio. You can be as simple
> or complex as you wish.

Thanks for suggestion. I will search for this chip, but I am not quite sure if it's widely available in my country (Poland).
Usually I still use polish ICs from CEMI semiconductor factory (unfortunately they're not existing any more) + some Russian and western parts, depending of their avalaibility. :) Most of those polish and russian, that I have in my supplies are equivalents of western integrated circuits.

```
From 2848464551766927314
X-Google-Thread: fc2a5,9a59abfd0a828816
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news3.google.com!feeder.news-
service.com!newsfeed.xs4all.nl!newsfeed5.news.xs4all.nl!xs4all!
post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: I am looking for a project of homemade AM superhet
References: <4c6fe1b4$0$22803$65785112@news.neostrada.pl>
 <iOudnT-5TtDf_e3RnZ2dnUVZ_r2dnZ2d@giganews.com>
 <4c70edca$0$27042$65785112@news.neostrada.pl>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrni71t1j.v1.nomail@xs8.xs4all.nl>
Date: 22 Aug 2010 09:56:03 GMT
Lines: 19
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1282470963 news.xs4all.nl 22945 [::ffff:194.109.21.8]:50471
X-Complaints-To: abuse@xs4all.nl
```

```
Xref: g2news1.google.com rec.radio.amateur.homebrew:3710

Atlantis <marekw1986NOSPAM@wp.pl> wrote:
> W dniu 2010-08-22 01:24, Dave M pisze:
>
>> National LM3820N AM radio chip.  BG Micro has them available for
>> $3.00 for a tube of 25  The chip is obsolete, but still presents an
>> interesting project.  (...)  The datasheet gives design and layout
>> (PCB) for several versions of a BCB AM radio.  You can be as simple
>> or complex as you wish.
>
> Thanks for suggestion. I will search for this chip, but I am not quite
> sure if it's widely available in my country (Poland).
> Usually I still use polish ICs from CEMI semiconductor factory
> (unfortunately they're not existing any more) + some Russian and western
> parts, depending of their avalaibility. :) Most of those polish and
> russian, that I have in my supplies are equivalents of western
> integrated circuits.

There are many older AM chips that were also available as Russian parts
as well (copied?), like the TCA440 for example.



From -4137181038691844894
X-Google-Thread: fc2a5,9a59abfd0a828816
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!feeder.eternal-september.org!.POSTED!
not-for-mail
From: highlandham <highlandham@rfburns.invalid.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I am looking for a project of homemade AM superhet
Date: Sun, 22 Aug 2010 15:17:09 +0100
Organization: A noiseless patient Spider
Lines: 23
Message-ID: <i4rbh5$ncr$1@news.eternal-september.org>
References: <4c6fe1b4$0$22803$65785112@news.neostrada.pl>
<iOudnT-5TtDf_e3RnZ2dnUVZ_r2dnZ2d@giganews.com>
<4c70edca$0$27042$65785112@news.neostrada.pl>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-2; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sun, 22 Aug 2010 14:17:09 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="x0maWgdkr1sj6kIQHSBetg";
     logging-data="23963"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+vb4V420uFD3MHaReImkPiLpZBJ0p7QeQ="
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.7) Gecko/20100730
Mandriva/3.1.1-0.1mdv2010.1 (2010.1) Thunderbird/3.1.1
In-Reply-To: <4c70edca$0$27042$65785112@news.neostrada.pl>
Cancel-Lock: sha1:CNrW+sqAupHVun3dbp4EJDrNDr4=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3712
```

On 22. aug. 2010 10:34, Atlantis wrote:
> W dniu 2010-08-22 01:24, Dave M pisze:
>
>> National LM3820N AM radio chip. BG Micro has them available for
>> $3.00 for a tube of 25 The chip is obsolete, but still presents an
>> interesting project. (...) The datasheet gives design and layout
>> (PCB) for several versions of a BCB AM radio. You can be as simple
>> or complex as you wish.
>
> Thanks for suggestion. I will search for this chip, but I am not quite
> sure if it's widely available in my country (Poland).
> Usually I still use polish ICs from CEMI semiconductor factory
> (unfortunately they're not existing any more) + some Russian and western
> parts, depending of their avalaibility. :) Most of those polish and
> russian, that I have in my supplies are equivalents of western
> integrated circuits.

======================================
You might find suitable components at Conrad Electronics (web site) ,a
German company ,shipping components all over Europe .
With Poland now being an EU country no import duty is required ,just
German VAT.

Frank   GM0CSZ / KN6WH

```
From -6086671244085073776
X-Google-Thread: fc2a5,9a59abfd0a828816
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 22 Aug 2010 17:52:38 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4c6fe1b4$0$22803$65785112@news.neostrada.pl>
<iOudnT-5TtDf_e3RnZ2dnUVZ_r2dnZ2d@giganews.com>
<4c70edca$0$27042$65785112@news.neostrada.pl>
Subject: Re: I am looking for a project of homemade AM superhet
Date: Sun, 22 Aug 2010 17:52:38 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Original
Message-ID: <3vednRig_tSrN-zRnZ2dnUVZ_rqdnZ2d@giganews.com>
Lines: 35
X-Usenet-Provider: http://www.giganews.com
X-Trace:
sv3-7v77njJ1KccK1+lYPZj2XH7sGBBdBQiNWXI+Ldat0kbN7DZbhd0XnsTTlSyJvfuUAElsXar6EVS1XH
2!lZ0Vmot8DV/Uvs9MjBKYJhnxnZB9VxTAevfzOOIL8H+Q9D/xDV6xyR91leG81PAhp13FMOrZajkI
```

X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3713

Atlantis wrote:
> W dniu 2010-08-22 01:24, Dave M pisze:
>
>> National LM3820N AM radio chip. BG Micro has them available for
>> $3.00 for a tube of 25 The chip is obsolete, but still presents an
>> interesting project. (...) The datasheet gives design and layout
>> (PCB) for several versions of a BCB AM radio. You can be as simple
>> or complex as you wish.
>
> Thanks for suggestion. I will search for this chip, but I am not quite
> sure if it's widely available in my country (Poland).
> Usually I still use polish ICs from CEMI semiconductor factory
> (unfortunately they're not existing any more) + some Russian and
> western parts, depending of their avalaibility. :) Most of those
> polish and russian, that I have in my supplies are equivalents of
> western integrated circuits.

As I said in my post, these chips are obsolete, so I'm sure they aren't widely available. BG Micro sells them for $3.00 US per tube of 25, plus $15.00 US (minimum) for shipping to countries other than Canada. If you're interested in trying them, I have a most of a tube of them in my parts bin. I used a few of them for 40 & 80 meter receivers a few years ago, and still have about 20 of them left. If you wish, I'd be glad to mail you a few to experiment with.

Ordering from BG Micro might be a bit expensive for you, but I'd be glad to send you a few, gratis. If interested, contact me directly at the address below.

--
David
dgminala at mediacombb dot net

From -5009205383058090298
X-Google-Thread: fc2a5,9a59abfd0a828816
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.glorb.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!newshosting.com!newsfeed.neostrada.pl!unt-

```
exc-01.news.neostrada.pl!unt-spo-b-01.news.neostrada.pl!news.neostrada.pl.POSTED!
not-for-mail
Date: Tue, 24 Aug 2010 18:29:19 +0200
From: Atlantis <marekw1986NOSPAM@wp.pl>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; pl; rv:1.8) Gecko/20051201
Thunderbird/1.5 Mnenhy/0.7.3.0
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I am looking for a project of homemade AM superhet
References: <4c6fe1b4$0$22803$65785112@news.neostrada.pl>
<iOudnT-5TtDf_e3RnZ2dnUVZ_r2dnZ2d@giganews.com>
<4c70edca$0$27042$65785112@news.neostrada.pl> <3vednRig_tSrN-
zRnZ2dnUVZ_rqdnZ2d@giganews.com>
In-Reply-To: <3vednRig_tSrN-zRnZ2dnUVZ_rqdnZ2d@giganews.com>
Content-Type: text/plain; charset=ISO-8859-2
Content-Transfer-Encoding: 7bit
Lines: 18
Message-ID: <4c73f1ff$0$21001$65785112@news.neostrada.pl>
Organization: Telekomunikacja Polska
NNTP-Posting-Host: 83.7.230.193
X-Trace: 1282667007 unt-rea-a-01.news.neostrada.pl 21001 83.7.230.193:18346
X-Complaints-To: abuse@news.neostrada.pl
Xref: g2news1.google.com rec.radio.amateur.homebrew:3717
```

W dniu 2010-08-23 00:52, Dave M pisze:

> $15.00 US (minimum) for shipping to countries other than Canada. If you're
> interested in trying them, I have a most of a tube of them in my parts bin.
> I used a few of them for 40 & 80 meter receivers a few years ago, and still
> have about 20 of them left. If you wish, I'd be glad to mail you a few to
> experiment with.

Thank you for your offer. I will remember it, but first I would like to try find it in local electronic stores.
And I still prefer a little bit more complicated and challenging constructions, with each stage on separate transistor or IC. I found only few polish publications from early 70's amateur radio press. All of them consist germanium transistors, manually made coils and few transformers in AF stage. :)

There recevers for 40 and 80 meter band, which You mentioned... What was that? Superheterodyne? Homodyne?

```
From 2483042515812492980
X-Google-Thread: fc2a5,8b65176351d6f387,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!x18g2000pro.googlegroups.com!not-for-
mail
From: anuu <anujbatta2012@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
```

```
Subject: Useful tips
Date: Tue, 24 Aug 2010 09:33:44 -0700 (PDT)
Organization: http://groups.google.com
Lines: 7
Message-ID: <19ec7d09-e918-467f-bcd3-957a23eac425@x18g2000pro.googlegroups.com>
NNTP-Posting-Host: 122.163.130.207
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1282667626 18070 127.0.0.1 (24 Aug 2010 16:33:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 24 Aug 2010 16:33:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x18g2000pro.googlegroups.com; posting-host=122.163.130.207;
posting-account=P6WxvwoAAACi7L5z7Pso82IRPz5hEP17
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
 AppleWebKit/532.5 (KHTML, like Gecko) Chrome/4.1.249.1045 Safari/532.5,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3718

http://anuj5733.firstclassrecipes.com

http://anuj5733.gettvonurpc.com

http://anuj5733.cure4acne.net

http://anuj5733.my-realestate-wealth.com


From 6861443491851647507
X-Google-Thread: fc2a5,8b65176351d6f387
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!eternal-
september.org!feeder.eternal-september.org!.POSTED!not-for-mail
From: highlandham <highlandham@rfburns.invalid.eu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Useful tips
Date: Tue, 24 Aug 2010 21:44:53 +0100
Organization: A noiseless patient Spider
Lines: 14
Message-ID: <i51b05$60s$1@news.eternal-september.org>
References: <19ec7d09-e918-467f-bcd3-957a23eac425@x18g2000pro.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Tue, 24 Aug 2010 20:44:53 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="x0maWgdkr1sj6kIQHSBetg";
     logging-data="6172"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+s+8i+QuOLRjgBJF2vT35VlfQVXLdzyc4="
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.7) Gecko/20100730
Mandriva/3.1.1-0.1mdv2010.1 (2010.1) Thunderbird/3.1.1
In-Reply-To: <19ec7d09-e918-467f-bcd3-957a23eac425@x18g2000pro.googlegroups.com>
```

Cancel-Lock: sha1:LbVmH2qrJ2XTOwPPJl+9U1i8ifg=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3719

On 24. aug. 2010 17:33, anuu wrote:
> http://anuj5733.firstclassrecipes.com
>
> http://anuj5733.gettvonurpc.com
>
> http://anuj5733.cure4acne.net
>
> http://anuj5733.my-realestate-wealth.com
====================================

Very annoying !

Frank GM0CSZ / KN6WH

From 5058531879183502550
X-Google-Thread: fc2a5,8b65176351d6f387
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
newsfeed.xs4all.nl!newsfeed5.news.xs4all.nl!xs4all!post.news.xs4all.nl!not-for-
mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Useful tips
References: <19ec7d09-e918-467f-bcd3-957a23eac425@x18g2000pro.googlegroups.com>
<i51b05$60s$1@news.eternal-september.org>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrni78d21.tr2.nomail@xs8.xs4all.nl>
Date: 24 Aug 2010 21:06:09 GMT
Lines: 4
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1282683969 news.xs4all.nl 22936 [::ffff:194.109.21.8]:34152
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:3720

highlandham <highlandham@rfburns.invalid.eu> wrote:
> Very annoying !

Annoying that you repeat the message, yes.

From 4470976513230502588
X-Google-Thread: fc2a5,9a59abfd0a828816
X-Google-NewGroupId: yes

```
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 24 Aug 2010 22:06:53 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4c6fe1b4$0$22803$65785112@news.neostrada.pl>
<iOudnT-5TtDf_e3RnZ2dnUVZ_r2dnZ2d@giganews.com>
<4c70edca$0$27042$65785112@news.neostrada.pl> <3vednRig_tSrN-
zRnZ2dnUVZ_rqdnZ2d@giganews.com> <4c73f1ff$0$21001$65785112@news.neostrada.pl>
Subject: Re: I am looking for a project of homemade AM superhet
Date: Tue, 24 Aug 2010 22:06:52 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Original
Message-ID: <fsOdnenDCf1QFenRnZ2dnUVZ_tidnZ2d@giganews.com>
Lines: 43
X-Usenet-Provider: http://www.giganews.com
X-Trace:
sv3-2RFsmf0Tm0plxkeaad49vxjeIoA2u4v4l9fQpvbqVxrQwcxg6vTLNTK+Sw3UIMo+L0QStGOz1ndpsq
2!ImYXQSmkyPkF30cSRhBOjACdzgK3htjV7a7KZkrhBGiH6XmClyhVvfahATeGWEbkY26fViGHTn7P
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3721
```

Atlantis wrote:
> W dniu 2010-08-23 00:52, Dave M pisze:
>
>> $15.00 US (minimum) for shipping to countries other than Canada. If
>> you're interested in trying them, I have a most of a tube of them in
>> my parts bin. I used a few of them for 40 & 80 meter receivers a few
>> years ago, and still have about 20 of them left. If you wish, I'd
>> be glad to mail you a few to experiment with.
>
> Thank you for your offer. I will remember it, but first I would like
> to try find it in local electronic stores.
> And I still prefer a little bit more complicated and challenging
> constructions, with each stage on separate transistor or IC. I found
> only few polish publications from early 70's amateur radio press. All
> of them consist germanium transistors, manually made coils and few
> transformers in AF stage. :)
>
> There recevers for 40 and 80 meter band, which You mentioned... What
> was that? Superheterodyne? Homodyne?

They were superhet receivers, since the LM3820 is basically a superhet design. The chip has poor sensitivity, so I had to add an RF preamp stage to get the performance up. I thought about trying to run it as a TRF receiver, but ran into trouble biasing the oscillator stage so that the mixer would work. It was more trouble than it was worth.

The final build was decent, but not great. Sensitivity was around 3uv, even with a good FET preamp stage. I used them for about 18 months before abandoning them for a better receiver (an old Heathkit unit), which I still have and use occasionally.

You should be able to make a pretty good BCB receiver with these chips, since the in-band noise will swamp the receiver if you try to make it more sensitive. You can find good preamp designs for BCB on the web if you wish to experiment. You might be able to get a bit more sensitivity by making the RF tanks more selective (higher Q inductors and capacitors, high impedance FET preamp stage, etc).

--
David
dgminala at mediacombb dot net

```
From -4642685048030170488
X-Google-Thread: fc2a5,ab859f0a6d4e440
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!goblin3!goblin.stu.neva.ru!
news.weisnix.org!newsfeed.ision.net!newsfeed2.easynews.net!ision!kanaga.switch.ch!
news-zh.switch.ch!switch.ch!newsfeed01.chello.at!newsfeed01.sul.t-online.de!
newsfeed00.sul.t-online.de!t-online.de!border2.nntp.dca.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 24 Aug 2010 23:10:34 -0500
From: triode <triode.6ba4dc8@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Frequency synthesizer for Ocean Boy 400
Date: Wed, 25 Aug 2010 04:06:17 +0000
Message-ID: <triode.6ba4dc8@radiobanter.com>
Organization: RadioBanter.com
References:  <uksimon.6b45f0c@radiobanter.com>
Lines: 16
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
mcFQZAjxdrQsTdPW15VgvemhrNnPWd3rBFNhjwWNT191HOjzXXD0UvxEmvoHtp5SdnI64y8tlds35eY!
E8an/P9CGc88pBWECCnaDPHg9aEyJBrck77wdB55F8EGcOoobSiQ/hCwkVYwZ8tFErtg918HgkaL!NKro
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

X-Postfilter: 1.3.40
X-Original-Lines: 5
X-Original-Bytes: 1419
Xref: g2news1.google.com rec.radio.amateur.homebrew:3722

uksimon;716043 Wrote:
> Would anyone happen to know what frequency synthesizer and PLL IC the
> Grundig Ocean boy 400 uses?
>
> I want to change the tuning step on SW to 1 kHz as the 5kHz step is a
> bit coarse.

If only it was that easy! The stepping rate is dictated by the reference frequency and N divider. The latter is dictated by the internal structure of the processor.

--
triode

From 5766483618677777031
X-Google-Thread: fc2a5,9ff1c97e078078e3,start
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid1617473143,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Heating in 4-1/2 turn inductor
Date: Wed, 25 Aug 2010 11:09:35 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 100825-0, 08/25/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 13
X-Trace: 7baf94c754008e0a49ca014209
Xref: g2news1.google.com rec.radio.amateur.homebrew:3723
sci.electronics.design:182553

Several years ago while making inductors for tuning a class E amplifier we
end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore, gapped I
think,
but it has been awhile. The inductor was driven hard but below saturation.
The problem; the 1/2 turn got HOT. Four turns or five turns were ok.
My physicist friend had an EE verify the problem 2000 miles away.

So, can anyone tell me why 1/2 turn would make such a difference in the
heating?

Thanks, MikeK

From 8280143171431821019
X-Google-Thread: fc2a5,c4f2e1e8b0583374,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!feeder.erje.net!feeder.news-service.com!cyclone01.ams2.highwinds-media.com!news.highwinds-media.com!npeersf01.ams.highwinds-media.com!newsfe26.ams2.POSTED!7564ea0f!not-for-mail
From: Howard James <howardwj@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: IF Transformers
Organization: virginmedia.com
Message-ID: <MPG.26de32dafd229857989682@news.virginmedia.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
User-Agent: MicroPlanet-Gravity/3.0.2
Lines: 16
NNTP-Posting-Date: Wed, 25 Aug 2010 17:12:56 UTC
Date: Wed, 25 Aug 2010 18:12:55 +0100
Xref: g2news1.google.com rec.radio.amateur.homebrew:3724

I'm about to embark on a "vintage" valve (tube) receiver but have a
question (probably more questions later!!!) about the IF transformers.
Years ago I was able to purchase the transformers for 455 KHz but the
ones I want are for 9 MHz. I think I'll have to wind them. I don't have
any 10.7 MHz transformers. Any advice appreciated. I'm really interested
in the turns ratios as I'll be winding the primaries for a Q of about
100.
Do the inter-IF amp windings have the same turns ratio as the balanced
modulator detector transformer? I think not. Do I have to worry about
turns ratio for anode impedance to grid impedance and what are "rule of
thumb" ratios? Can I use FTxx toroids as opposed to say quarter inch
coil formers with screening cans? So many questions. It's great being a
radio amateur!

Thanks. Howard.

From -3767690237057297391
X-Google-Thread: fc2a5,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 112d1e,9ff1c97e078078e3
X-Google-NewGroupId: yes
X-Google-Thread: 1110fe,f403393f2ac7b19a,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gid1617473143,gidf9f9045f03,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.design,sci.physics.electromag
References: <7baf9$4c754008$45013905$14209@KNOLOGY.NET>
Subject: Re: Heating in 4-1/2 turn inductor
Date: Wed, 25 Aug 2010 13:04:19 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-Antivirus: avast! (VPS 100825-0, 08/25/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <8c64b$4c755b30$45013905$6500@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 17
X-Trace: 8c64b4c755b30e0a49ca006500
Xref: g2news1.google.com rec.radio.amateur.homebrew:3725
sci.electronics.design:182587 sci.physics.electromag:8497

"amdx" <amdx@knology.net> wrote in message
news:7baf9$4c754008$45013905$14209@KNOLOGY.NET...
> Several years ago while making inductors for tuning a class E amplifier we
> end up with a 4-1/2 turn inductor. The inductor used a 3F3 potcore, gapped
> I think,
> but it has been awhile. The inductor was driven hard but below saturation.
> The problem; the 1/2 turn got HOT. Four turns or five turns were ok.
> My physicist friend had an EE verify the problem 2000 miles away.
>
> So, can anyone tell me why 1/2 turn would make such a difference in the
> heating?
>
>   Thanks, MikeK
>

```
From 29038399700265O2744
X-Google-Thread: fc2a5,e2d04cc5a3f3defb,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,e2d04cc5a3f3defb,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,e2d04cc5a3f3defb,start
X-Google-NewGroupId: yes
X-Google-Thread: 10e8ad,e2d04cc5a3f3defb,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,e2d04cc5a3f3defb,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gida3e752f117,gide721ae2bf6,gid8f86f75953,gida4a23d5f63,domainid0,pu
blic,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news2.glorb.com!news-
out.readnews.com!transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1275372001@panix.com>
Followup-To: poster
Date: 1 Jul 2010 02:00:02 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Aug 2010 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1277964001@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1277964002 13012 166.84.1.2 (1 Jul 2010 06:00:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 1 Jul 2010 06:00:02 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Xref: g2news2.google.com rec.radio.amateur.antenna:19027 rec.radio.amateur.dx:698
rec.radio.amateur.equipment:2311 rec.radio.amateur.homebrew:3800
rec.radio.amateur.misc:5285 rec.radio.amateur.policy:30258
rec.radio.amateur.space:380 rec.radio.info:1623

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
```

URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

From 8249272246563169910
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!y11g2000yqm.googlegroups.com!not-for-mail

```
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Date: Thu, 1 Jul 2010 01:56:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 28
Message-ID: <059ae786-474a-4225-907e-09895d6a06cd@y11g2000yqm.googlegroups.com>
References: <rL-3006101023030001@10.0.1.7>
NNTP-Posting-Host: 99.102.231.110
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1277974580 15206 127.0.0.1 (1 Jul 2010 08:56:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 1 Jul 2010 08:56:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y11g2000yqm.googlegroups.com; posting-host=99.102.231.110;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.3)
     Gecko/20100423 Ubuntu/10.04 (lucid) Firefox/3.6.3,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3504
```

```
. =A0Misfortunately a Q of 5 is
> not quite low enough to reduce VHF gain enough so that oscillation can no=
t
> be sustained =A0It apparently takes a Q of =A02 at 100MHz to achieve
> acceptable VHF stability. =A0One way to decrease Q involves exchanging th=
e
> highly-conductive Cu wire for highly-resistive Ni-Cr wire =A0 This simple
> change results in a Q of c. 2 at 100MHz as measured on a HP 4191A
> Z-analyzer. =A0 =A0By using =A0two Ni-Cr =A0VHF suppressors per 2-500z, Q=
 can be
> further reduced to c. 1.5.
> - =A0end
>
> --
> Richard L. Measures. 805-386-3734,AG6K,www.somis.org
```

Hey OM:

When I made a living selling tubes, my fav best method of stopping VHF
parasitic oscillations was when the transconductance went kaput from
the little grid wire overheating and burning out. I made a living off
of parasitics.

sum gr8 articles on your website too OM.

73,
de n8zu.

```
From 4923976697649897496
X-Google-Thread: be63959219,f3ab67acc7fb26e0
X-Google-Attributes: gidbe63959219,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder2.cambriumusenet.nl!
feed.tweaknews.nl!194.109.133.84.MISMATCH!newsfeed.xs4all.nl!
newsfeed5.news.xs4all.nl!xs4all!feeder.news-service.com!85.214.198.2.MISMATCH!
eternal-september.org!.POSTED!not-for-mail
From: "Brian Reay" <seewebsite@invalid.com>
Newsgroups:
uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.homebrew,rec.radio.amateur.di
gital,rec.radio.amateur.misc,rec.radio.amateur.digital.misc
Subject: Re: Codec2 - putting your money where your mouth is
Date: Thu, 1 Jul 2010 19:15:58 +0100
Organization: A noiseless patient Spider
Lines: 24
Message-ID: <i0im10$qp7$1@news.eternal-september.org>
References: <20100701190840.63646ff0@peterson.fenrir.org.uk>
Injection-Date: Thu, 1 Jul 2010 18:16:00 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="+1GN0a1ZhN8R3iEtWXVmoQ";
     logging-data="27431"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18ml0oHwOQc5eSCyWw1CkXk"
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:OOdQQST2qIldqAJ+qW8dAAOxXgk=
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:100635 rec.radio.amateur.homebrew:3506
rec.radio.amateur.misc:5034 rec.radio.amateur.digital.misc:144
```

"Brian Morrison" <bdm@fenrir.org.uk> wrote in message
news:20100701190840.63646ff0@peterson.fenrir.org.uk...

>I was following up on the current situation with David Rowe's work
> on the Codec2 digital voice codec the other day, and noticed that it's
> not progressing much due to essentially lack of development time when
> David needs to put food on the table. So I decided to make a donation.
>
> I was absolutely astonished to receive a thank you from David that said
> "your are the first person to donate to Codec2", I really didn't expect
> that at all. Surely I thought, other people have been this way before?
> It seems not.

I'm not that surprised, I've had similar responses to shareware type donations.

Never the less, you've chipped in, perhaps others who are pro-digital but anti DSTAR will follow your example.

--
73
Brian G8OSN/W8OSN

From -5919128959462795436
X-Google-Thread: f64c6,f3ab67acc7fb26e0
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,f3ab67acc7fb26e0
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,f3ab67acc7fb26e0
X-Google-NewGroupId: yes
X-Google-Thread: f7653,f3ab67acc7fb26e0
X-Google-NewGroupId: yes
X-Google-Attributes:
gid82c01338ff,gid241b302a50,gida3e752f117,gidbe63959219,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!goblin1!goblin.stu.neva.ru!
news2.euro.net!newsgate.cistron.nl!newsgate.news.xs4all.nl!post.news.xs4all.nl!
not-for-mail
Newsgroups:
uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.homebrew,rec.radio.amateur.digital,rec.radio.amateur.misc,rec.radio.amateur.digital.misc
From: Rob <nomail@example.com>
Subject: Re: Codec2 - putting your money where your mouth is
References: <20100701190840.63646ff0@peterson.fenrir.org.uk>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrni2pn78.dq7.nomail@xs8.xs4all.nl>
Date: 01 Jul 2010 18:22:32 GMT
Lines: 25
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1278008552 news.xs4all.nl 22945 [::ffff:194.109.21.8]:44752
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com uk.radio.amateur:100636 rec.radio.amateur.homebrew:3507
rec.radio.amateur.misc:5035 rec.radio.amateur.digital.misc:145

Brian Morrison <bdm@fenrir.org.uk> wrote:
> Now, since I've put some money into the pot, I was hoping that anyone
> else that would like to see proprietary technology in amateur radio
> replaced by something open that can be inspected, learned from and
> improved, will visit the following link and see what they are prepared
> to donate:

There is no way that is going to happen. The Codec2 will not be compatible
with AMBE, so a commercially manufactured transceiver will not be able
to talk to an open one. D-Star does not have the capability to negotiate a
CODEC in the protocol, so beside the low level of the coded the higher
levels will also need to be redone.
There is no way the "proprietary technology can be replaced", the only
thing that could happen is that a second network, incompatible with

the current D-STAR network, could be setup using open technology.
Frankly, I don't think we still have the userbase to make that happen.

I am probably not the only one with this opinion, and I am not amazed
that there are not many that would sponsor a development like this that
cannot be put to real use.

The only useful development would be the development of a free, open
codec that is compatible with AMBE. But that would have to be done in
an environment that does not bow to US Patents etc, or it will have to
wait until all the patents have expired.

```
From 7500149103825492105
X-Google-Thread: f64c6,f3ab67acc7fb26e0
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,f3ab67acc7fb26e0
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,f3ab67acc7fb26e0
X-Google-NewGroupId: yes
X-Google-Thread: f7653,f3ab67acc7fb26e0
X-Google-NewGroupId: yes
X-Google-Attributes:
gid82c01338ff,gid241b302a50,gida3e752f117,gidbe63959219,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
85.214.198.2.MISMATCH!eternal-september.org!.POSTED!not-for-mail
From: M0WYM <nospammers@radiowymsey.org>
Newsgroups:
uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.homebrew,rec.radio.amateur.di
gital,rec.radio.amateur.misc,rec.radio.amateur.digital.misc
Subject: Re: Codec2 - putting your money where your mouth is
Date: Thu, 01 Jul 2010 19:37:37 +0100
Organization: A noiseless patient Spider
Lines: 30
Message-ID: <i0in9i$2im$1@news.eternal-september.org>
References: <20100701190840.63646ff0@peterson.fenrir.org.uk>
<slrni2pn78.dq7.nomail@xs8.xs4all.nl>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 1 Jul 2010 18:37:38 +0000 (UTC)
Injection-Info: mx01.eternal-september.org; posting-host="cIDAedyp0KCpGUccFopcfg";
     logging-data="2646"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/6a5E76uFGOs8tVY8bI4+7"
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.1.9) Gecko/20100423
Thunderbird/3.0.4
In-Reply-To: <slrni2pn78.dq7.nomail@xs8.xs4all.nl>
Cancel-Lock: sha1:YK/yrIOh2LRmv7/ZO0maKHJNNsI=
Xref: g2news2.google.com uk.radio.amateur:107139 rec.radio.amateur.homebrew:3805
rec.radio.amateur.misc:5291 rec.radio.amateur.digital.misc:174
```

On 01/07/10 19:22, Rob wrote:

>
> There is no way that is going to happen. The Codec2 will not be compatible
> with AMBE, so a commercially manufactured transceiver will not be able
> to talk to an open one.

"ICOM's D*STAR transceivers, even the handie-talkies, have their AMBE codec on a removable daughter card. This is wonderful, because it gives us a path to change the codec. "

http://codec2.org/

HTH,

Charlie.

--
M0WYM
www.radiowymsey.org

Sales @ radiowymsey
http://shop.ebay.co.uk/gnome7763/m.html?

From -6008236308769713477
X-Google-Thread: f64c6,f3ab67acc7fb26e0
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,f3ab67acc7fb26e0
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,f3ab67acc7fb26e0
X-Google-NewGroupId: yes
X-Google-Thread: f7653,f3ab67acc7fb26e0
X-Google-NewGroupId: yes
X-Google-Attributes:
gid82c01338ff,gid241b302a50,gida3e752f117,gidbe63959219,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed.news.ucla.edu!ihnp4.UCSD.Edu!not-for-mail
From: Brian Kantor <brian@ucsd.edu>
Newsgroups:
uk.radio.amateur,rec.radio.amateur,rec.radio.amateur.homebrew,rec.radio.amateur.digital,rec.radio.amateur.misc,rec.radio.amateur.digital.misc
Subject: Re: Codec2 - putting your money where your mouth is
Date: 01 Jul 2010 21:40:50 GMT
Organization: University of California San Diego
Lines: 17

```
Message-ID: <l4wew2.dgn@ucsd.edu>
References: <20100701190840.63646ff0@peterson.fenrir.org.uk>
<slrni2pn78.dq7.nomail@xs8.xs4all.nl> <i0in9i$2im$1@news.eternal-september.org>
NNTP-Posting-Host: karoshi.sysnet.ucsd.edu
X-Trace: ihnp4.ucsd.edu 1278020450 26170 137.110.222.208 (1 Jul 2010 21:40:50 GMT)
X-Complaints-To: Abuse@UCSD.Edu
NNTP-Posting-Date: Thu, 1 Jul 2010 21:40:50 +0000 (UTC)
Xref: g2news1.google.com uk.radio.amateur:100650 rec.radio.amateur.homebrew:3509
rec.radio.amateur.misc:5039 rec.radio.amateur.digital.misc:147

M0WYM  <nospammers@radiowymsey.org> wrote:
>On 01/07/10 19:22, Rob wrote:
>> There is no way that is going to happen.  The Codec2 will not be compatible
>> with AMBE, so a commercially manufactured transceiver will not be able
>> to talk to an open one.
>"ICOM's D*STAR transceivers, even the handie-talkies, have their AMBE
>codec on a removable daughter card. This is wonderful, because it gives
>us a path to change the codec. "
>http://codec2.org/


I think hams should be looking into using TETRA instead of DSTAR/P25, if we
are to actually consider using digital voice technology.  I believe there
would be far fewer encumbrances than with P25, and there are LOTS more surplus
radios around.
     - Brian




From 4644462458053189595
X-Google-Thread: f64c6,f3ab67acc7fb26e0
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,f3ab67acc7fb26e0
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,f3ab67acc7fb26e0
X-Google-NewGroupId: yes
X-Google-Attributes:
gid82c01338ff,gid241b302a50,gida3e752f117,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!e5g2000yqn.googlegroups.com!not-for-
mail
From: Yeti <yeti@ayrshore.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Codec2 - putting your money where your mouth is
Date: Thu, 1 Jul 2010 15:06:15 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <c178f71c-e4b1-4886-8354-333792463aaf@e5g2000yqn.googlegroups.com>
References: <20100701190840.63646ff0@peterson.fenrir.org.uk>
     <i0im10$qp7$1@news.eternal-september.org>
NNTP-Posting-Host: 80.255.219.8
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
```

```
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1278021975 8178 127.0.0.1 (1 Jul 2010 22:06:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 1 Jul 2010 22:06:15 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e5g2000yqn.googlegroups.com; posting-host=80.255.219.8;
     posting-account=bUS08goAAAAJ7m10wYbR6JZLykLY1z-l
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.0; en-GB; rv:1.9.2.4)
     Gecko/20100611 Firefox/3.6.4 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news1.google.com uk.radio.amateur:100655 rec.radio.amateur.homebrew:3512
rec.radio.amateur.misc:5042

On Jul 1, 7:15=A0pm, "Brian Reay" <seewebs...@invalid.com> wrote:

> I'm not that surprised, I've had similar responses to shareware type
> donations.
>
> Never the less, you've chipped in, perhaps others who are pro-digital but
> anti DSTAR will follow your example.
>
> --
> 73
> Brian G8OSN/W8OSNwww.g8osn.net

Definately - but not this month, I'm skint....


From -5131441344019169504
X-Google-Thread: fc2a5,2768a7ac56ab0348,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 02 Jul 2010 07:17:50 -0500
Date: Fri, 02 Jul 2010 05:17:47 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Moderated / Unmoderated ?
Message-ID: <rL-0207100517470001@10.0.1.7>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 20
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-e3KnQA+dvKRkBH19hvwVwMqGItrlST3/
X6kglX+bTAgJWOAJj6RxDHPn3lgVzZc7oVoHS/cU0bNWcvf!
PlvMABtPVqjQtYwFlHcxSbWScAZwAdAfTTaC8C71IlZW4Q1zFMLDrUpVirJfggBSjA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3513

Fellow amateur radio operators: Over the past 14-yrs I have been jackbooted numerous times off of amateur radio discussion groups because I critiqued somewhat less than technically correct statements by a male friend of the moderator/censor. The first moderated discussion group I ever joined was AMPS - back in 1996. Within 3-hours I received a telephone call from the moderator warning me that I would not be allowed to critique statements from W8JI. When I asked if this rule applied to sttements that were technically specious, I was told to go easy. Within a few weeks I had been jackbooted off of AMPS.   Thanks to complaints from technically enlighted members of AMPS, I eventually got reinstated but I was eventually jackbooted again for the same reason when we got a new moderator/censor. This happened several times.

I can not understand why any sane amateur radio operator would want to participate in a discussion group where specious statements from boyfriends of the censor/modertor are shielded.

end

--
Richard L. Measures. AG6K, 805-386-3734, www.somis.org

From -7488855205899214728
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 02 Jul 2010 07:41:27 -0500
Date: Fri, 02 Jul 2010 05:41:23 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Message-ID: <rL-0207100541230001@10.0.1.7>
References: <rL-3006101023030001@10.0.1.7>
<059ae786-474a-4225-907e-09895d6a06cd@y11g2000yqm.googlegroups.com>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 44
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-Tsk5AsB5Tb5yhdK2TwEGa9dz1mFAvRtrIG5OPSrSRv3Z4jzun8nD3AIdXJBZt323FVGeGX0hbJi2TRs!YNQ7QQHGBVjnNVz/j2UA3B/KaImrZDxOUcX/7qiZ4IhblwPF8hnHz0jCtFqfCWq+QA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3514

```
In article
<059ae786-474a-4225-907e-09895d6a06cd@y11g2000yqm.googlegroups.com>,
raypsi <rborowiak@gmail.com> wrote:

>. =A0Misfortunately a Q of 5 is
>> not quite low enough to reduce VHF gain enough so that oscillation can no=
>t
>> be sustained =A0It apparently takes a Q of =A02 at 100MHz to achieve
>> acceptable VHF stability. =A0One way to decrease Q involves exchanging th=
>e
>> highly-conductive Cu wire for highly-resistive Ni-Cr wire =A0 This simple
>> change results in a Q of c. 2 at 100MHz as measured on a HP 4191A
>> Z-analyzer. =A0 =A0By using =A0two Ni-Cr =A0VHF suppressors per 2-500z, Q=
> can be
>> further reduced to c. 1.5.
>> - =A0end
>>
>> --
>> Richard L. Measures. 805-386-3734,AG6K,www.somis.org
>
>Hey OM:
>
>When I made a living selling tubes, my fav best method of stopping VHF
>parasitic oscillations was when the transconductance went kaput from
>the little grid wire overheating and burning out. I made a living off
>of parasitics.

**  chortle.  And apparently so was Eimac since the Eimac markeing
rep,,Reid Brandon, reportedly complained to QST that I should never have
been told by Eimac engineer Willis B. Foote that 8877s can be damaged by
gold plating evaporating off the 8877's grid during an "oscillation
condition".
>
>sum gr8 articles on your website too OM.

**  Tnx Ray.  73


>
>73,
>de n8zu.

--
Richard L. Measures. AG6K,  805-386-3734, www.somis.org


From 8725876913508660782
X-Google-Thread: 109125,13a911327c850ce,start
X-Google-NewGroupId: yes
X-Google-Thread: 1027f0,13a911327c850ce,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,13a911327c850ce,start
```

```
X-Google-NewGroupId: yes
X-Google-Attributes:
gid5c019a59a0,gidf42d3319d3,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k20g2000pro.googlegroups.com!not-for-
mail
From: cntrade08 <chenlily84@hotmail.com>
Newsgroups: rec.games.backgammon,rec.autos.makers.honda,rec.radio.amateur.homebrew
Subject: Discount Nike Shox TL Store,Paypal Payment  (http://www.cntrade09.com)
Date: Fri, 2 Jul 2010 06:35:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <97189d8f-a6d7-4198-add0-4a3c0eb18a53@k20g2000pro.googlegroups.com>
NNTP-Posting-Host: 121.205.246.2
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1278077713 26218 127.0.0.1 (2 Jul 2010 13:35:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 2 Jul 2010 13:35:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k20g2000pro.googlegroups.com; posting-host=121.205.246.2;
     posting-account=qbRHCQoAAADxaq8M1mHuPtnY1mQIBNiC
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     CIBA; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe)
Xref: g2news1.google.com rec.games.backgammon:4991 rec.autos.makers.honda:6765
rec.radio.amateur.homebrew:3515
```

Discount Wholesale Affliction Jeans <free shipping paypal payment>
Discount Wholesale AK Jeans (http://www.cntrade09.com/)
Discount Wholesale Armani Jeans
Discount Wholesale Artful Dodger Jeans <free shipping paypal payment>
Discount Wholesale BAPE Jeans
Discount Wholesale BBC Jeans (http://www.cntrade09.com/)
Discount Wholesale Black Label Jeans
Discount Wholesale Cavalli Jeans
Discount Wholesale Christian Audigier Jeans
Discount Wholesale Coogi Jeans
Discount Wholesale Crown Holder Jeans (http://www.cntrade09.com/)
Discount Wholesale D&G Jeans
Discount Wholesale Diesel Jeans
Discount Wholesale ECKO Jeans (http://www.cntrade09.com/)
Discount Wholesale ED Hardy Jeans
Discount Wholesale Evisu Jeans
Discount Wholesale G-STAR Jeans <free shipping paypal payment>
Discount Wholesale GUCCI Jeans
Discount Wholesale Iceberg Jeans
Discount Wholesale Kanji Jeans (http://www.cntrade09.com/)
Discount Wholesale Laguna Beach Jeans
Discount Wholesale Levi s Jeans
Discount Wholesale LRG Jeans <free shipping paypal payment>
Discount Wholesale LV Jeans
Discount Wholesale Prada Jeans (http://www.cntrade09.com/)

```
Discount Wholesale RMC Jeans
Discount Wholesale Roca Wear Jeans <free shipping paypal payment>
Discount Wholesale Rock&Republic Jeans
Discount Wholesale True Religion Jeans <free shipping paypal payment>
Discount Wholesale Versace Jeans
Discount Wholesale ZEN Jeans (http://www.cntrade09.com/)


From -1645689963103005676
X-Google-Thread: fc2a5,2768a7ac56ab0348
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <knock_yourself_out@example.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Moderated / Unmoderated ?
Date: 2 Jul 2010 13:35:31 GMT
Lines: 5
Message-ID: <slrni2rqp3.21je.knock_yourself_out@shell.config.com>
References: <rL-0207100517470001@10.0.1.7>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO8859-1
Content-Transfer-Encoding: 8bit
X-Trace: individual.net 3cBVCKKGHsgqsw3g2r2PjQ5+TytJsyTbGnP4NppNkQSvscNxl+
Cancel-Lock: sha1:btHj/f66K+E7p41P27rHTihRkVc=
User-Agent: slrn/0.9.9p1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3516

On Fri, 02 Jul 2010 05:17:47 -0700, � R. L. Measures. wrote:

<-- "jackbooted" rant snipped ->

 ... and , your homebrew question is   ?


From -4989688506593962608
X-Google-Thread: fc2a5,2768a7ac56ab0348
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news1.google.com!news4.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 02 Jul 2010 08:40:55 -0500
Date: Fri, 02 Jul 2010 14:40:53 +0100
From: highlandham <highlandham.nospam@rfburns.eu>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.1.10) Gecko/20100624
Mandriva/3.0.5-0.1mdv2010.0 (2010.0) Thunderbird/3.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Moderated / Unmoderated ?
```

```
References: <rL-0207100517470001@10.0.1.7>
In-Reply-To: <rL-0207100517470001@10.0.1.7>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 8bit
Message-ID: <n4qdnWtI0Mn6cbDRnZ2dnUVZ8jGdnZ2d@pipex.net>
Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.110.216.108
X-Trace: sv3-
YWhL7zvjiMlbY0kE6ya6EpvBbd61UKiFPOQI00alCXp7NeUn6oXKs4oRcNvmW+BMOL1nKtO3osDm+e+!
QaW0CkLpAuAc5fgjP2BrYHbu+aWySixcjHYEnWlP5RLIhgIwAxoSbEbiB4MozszsDpe7RFyhJC86!/
1NhUhz6PX903LTUoslJllrIlwk=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3517

On 02. juli 2010 13:17, • R. L. Measures. wrote:
> Fellow amateur radio operators:  Over the past 14-yrs I have been
> jackbooted numerous times off of amateur radio discussion groups because I
> critiqued somewhat less than technically correct statements by a male
> friend of the moderator/censor.  The first moderated discussion group I
> ever joined was AMPS - back in 1996.  Within 3-hours I received a
> telephone call from the moderator warning me that I would not be allowed
> to critique statements from W8JI.  When I asked if this rule applied to
> sttements that were technically specious, I was told to go easy.  Within a
> few weeks I had been jackbooted off of AMPS.    Thanks to complaints from
> technically enlighted members of AMPS, I eventually got reinstated but I
> was eventually jackbooted again for the same reason when we got a new
> moderator/censor. This happened several times.
>      I can not understand why any sane amateur radio operator would want to
> participate in a discussion group where specious statements from
> boyfriends of the censor/modertor are shielded.
>
> end
>
===========================================
Don't worry Rich , Your critique (if any) on this NG won't cause you to
be booted.........welcome to rec.radio.amateur.homebrew .

You already have made a valuable contribution.

Frank  GM0CSZ / KN6WH    in northern Scotland


From 328063824988597848
X-Google-Thread: fc2a5,d2200d7e2e014976,start
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,d2200d7e2e014976,start
X-Google-NewGroupId: yes
```

```
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n8g2000prh.googlegroups.com!not-for-
mail
From: guccihandbag <hhhhhh87@yahoo.cn>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: Discount cheapsale Kanji Jeans (http://www.brandtrade99/)
Date: Fri, 2 Jul 2010 07:18:19 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <b56ddfce-5ceb-475c-b95c-21182d6a8c82@n8g2000prh.googlegroups.com>
NNTP-Posting-Host: 59.58.159.115
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1278080300 19262 127.0.0.1 (2 Jul 2010 14:18:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 2 Jul 2010 14:18:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n8g2000prh.googlegroups.com; posting-host=59.58.159.115;
     posting-account=QzDCVQoAAABCTEJ4DhYgkHKpSb6llhkL
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3518
rec.puzzles.crosswords:7888

Discount cheapsale Affliction Jeans  <free shipping paypal payment>
Discount cheapsale AK Jeans  (http://www.brandtrade99/)
Discount cheapsale Armani Jeans
Discount cheapsale Artful Dodger Jeans <free shipping paypal payment>
Discount cheapsale BAPE Jeans
Discount cheapsale BBC Jeans (http://www.brandtrade99/)
Discount cheapsale Black Label Jeans
Discount cheapsale Cavalli Jeans
Discount cheapsale Christian Audigier Jeans
Discount cheapsale Coogi Jeans
Discount cheapsale Crown Holder Jeans (http://www.brandtrade99/)
Discount cheapsale D&G Jeans
Discount cheapsale Diesel Jeans
Discount cheapsale ECKO Jeans (http://www.brandtrade99/)
Discount cheapsale ED Hardy Jeans
Discount cheapsale Evisu Jeans
Discount cheapsale G-STAR Jeans <free shipping paypal payment>
Discount cheapsale GUCCI Jeans
Discount cheapsale Iceberg Jeans
Discount cheapsale Kanji Jeans (http://www.brandtrade99/)
Discount cheapsale Laguna Beach Jeans
Discount cheapsale Levi s Jeans
Discount cheapsale LRG Jeans <free shipping paypal payment>
Discount cheapsale LV Jeans
Discount cheapsale Prada Jeans (http://www.brandtrade99/)
Discount cheapsale RMC Jeans
Discount cheapsale Roca Wear Jeans <free shipping paypal payment>
Discount cheapsale Rock&Republic Jeans
Discount cheapsale True Religion Jeans <free shipping paypal payment>
Discount cheapsale Versace Jeans
Discount cheapsale ZEN Jeans (http://www.brandtrade99/)


From -8102738879462544755
X-Google-Thread: 241b302a50,2768a7ac56ab0348
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!STARBAND.NET-a2kHrUvQQWlmc!not-for-mail
From: Me <Me@shadow.orgs>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Moderated / Unmoderated ?
Organization: Shadow.orgs
References: <rL-0207100517470001@10.0.1.7>
User-Agent: MT-NewsWatcher/3.5.3b3 (PPC Mac OS X)
Date: Fri, 02 Jul 2010 11:22:20 -0800
Message-ID: <Me-538529.11221602072010@unknown.hwng.net>
X-Complaints-To: abuse@usenetserver.com
Lines: 16
X-Trace: a9afc4c2e3c7431e5901f14940
Xref: g2news1.google.com rec.radio.amateur.homebrew:3519

In article <rL-0207100517470001@10.0.1.7>,
 rL@somis.org (� R. L. Measures.) wrote:

>     I can not understand why any sane amateur radio operator would want to
> participate in a discussion group where specious statements from
> boyfriends of the censor/modertor are shielded.
>
> end
>
> --
> Richard L. Measures. AG6K,  805-386-3734, www.somis.org

maybe it has something to do with the attitude you display on other
Newsgroups you frequent......

Me         One who has been reading your stuff for YEARS.....


From -8978512007147920834
X-Google-Thread: fc2a5,2768a7ac56ab0348
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news4.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!news-1.mpls.iphouse.net.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
```

Subject: Re: Moderated / Unmoderated ?
From: Bert Hyman <bert@iphouse.com>
References: <rL-0207100517470001@10.0.1.7>
Organization: Not that you'd notice
Message-ID: <Xns9DA9935EFA047VeebleFetzer@216.250.188.140>
User-Agent: Xnews/2006.08.24
Date: 02 Jul 2010 19:29:13 GMT
Lines: 15
NNTP-Posting-Date: 02 Jul 2010 14:29:13 CDT
NNTP-Posting-Host: 25c89959.newsreader.iphouse.net
X-Trace:
DXC=]nS4ARicI=FdUH@Un17^<LUU[C:R=]MbJeHS>e[L>83@JGe>CEh0I[Ac230oU7d71AX7@2h;nGb4MV
H6CFlO[k:K
X-Complaints-To: abuse@iphouse.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:3817

In news:rL-0207100517470001@10.0.1.7 rL@somis.org (� R. L. Measures.)
wrote:

> Fellow amateur radio operators: Over the past 14-yrs I have been
> jackbooted numerous times off of amateur radio discussion groups
> because I critiqued somewhat less than technically correct statements
> by a male friend of the moderator/censor.

Really?

Most people have absolutely no problem with moderated groups, which they
find pleasantly free of crap.

--
Bert Hyman   W0RSB   St. Paul, MN bert@iphouse.com

From -6705755115916995729
X-Google-Thread: 241b302a50,2768a7ac56ab0348
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 02 Jul 2010 20:47:32 -0500
Date: Fri, 02 Jul 2010 18:47:28 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Moderated / Unmoderated ?
Message-ID: <rL-0207101847280001@10.0.1.7>
References: <rL-0207100517470001@10.0.1.7>
<slrni2rqp3.21je.knock_yourself_out@shell.config.com>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 13
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34

X-Trace: sv3-Kfpk1bbNUVdU/
Iht4fOYbm59Vvf9Bd8u0PK3zSVZJYtqSr1QBEWRBhcV9tPeoVB2d+JXOjzVQOHdID6!
sbTdmfpyG6TiMO55P8KOzaH3/0wj2MFvGNV8v3J3v/ke4lxd4CazOyRy6yiLRqWVkg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3521

In article <slrni2rqp3.21je.knock_yourself_out@shell.config.com>,
Allodoxaphobia <knock_yourself_out@example.net> wrote:

>On Fri, 02 Jul 2010 05:17:47 -0700, � R. L. Measures. wrote:
>
><-- "jackbooted" rant snipped ->
>
> ... and , your homebrew question is   ?

� zzzzzz zzzz zzzzzzzzzzzz

--
Richard L. Measures. AG6K, 805-386-3734, www.somis.org

From 1655064707300968453
X-Google-Thread: fc2a5,2768a7ac56ab0348
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 02 Jul 2010 20:50:15 -0500
Date: Fri, 02 Jul 2010 18:50:11 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Moderated / Unmoderated ?
Message-ID: <rL-0207101850110001@10.0.1.7>
References: <rL-0207100517470001@10.0.1.7>
<n4qdnWtI0Mn6cbDRnZ2dnUVZ8jGdnZ2d@pipex.net>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 36
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-h8XnCk8OB5JL2LGgl6IaRzST7dc0b7/
E4mGs6nQfnzClb5JRKMn8M7bBdsHTCLC6jL90KPR6pv9t4AP!MXoQNAQVnUweAfSCD4ciDy3CSPNvFSc/
p6QWIU/3Zdps+TLSr7/6KIrxULExCYYQFw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3522

```
In article <n4qdnWtI0Mn6cbDRnZ2dnUVZ8jGdnZ2d@pipex.net>, highlandham
<highlandham.nospam@rfburns.eu> wrote:

>On 02. juli 2010 13:17, • R. L. Measures. wrote:
>> Fellow amateur radio operators:  Over the past 14-yrs I have been
>> jackbooted numerous times off of amateur radio discussion groups because I
>> critiqued somewhat less than technically correct statements by a male
>> friend of the moderator/censor.  The first moderated discussion group I
>> ever joined was AMPS - back in 1996.  Within 3-hours I received a
>> telephone call from the moderator warning me that I would not be allowed
>> to critique statements from W8JI.  When I asked if this rule applied to
>> sttements that were technically specious, I was told to go easy.  Within a
>> few weeks I had been jackbooted off of AMPS.    Thanks to complaints from
>> technically enlighted members of AMPS, I eventually got reinstated but I
>> was eventually jackbooted again for the same reason when we got a new
>> moderator/censor. This happened several times.
>>      I can not understand why any sane amateur radio operator would want to
>> participate in a discussion group where specious statements from
>> boyfriends of the censor/modertor are shielded.
>>
>> end
>>
>============================================
>Don't worry Rich , Your critique (if any) on this NG won't cause you to
>be booted.........welcome to rec.radio.amateur.homebrew .

**  TNX.
>
>You already have made a valuable contribution.
>
**  tnx for posies Frank.

>Frank  GM0CSZ / KN6WH    in northern Scotland

--
Richard L. Measures. AG6K,  805-386-3734, www.somis.org


From -2046590192752196732
X-Google-Thread: fc2a5,2768a7ac56ab0348
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 02 Jul 2010 20:55:43 -0500
Date: Fri, 02 Jul 2010 18:55:34 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Moderated / Unmoderated ?
Message-ID: <rL-0207101855340001@10.0.1.7>
References: <rL-0207100517470001@10.0.1.7>
```

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<Me-538529.11221602072010@unknown.hwng.net>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 27
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-a2N+ynYFJWW6j/
LFGgVbkn6+ihHTfUCYnirBJZKBZ7KeGaqTpsKtooXeSlZcsRkJzfqEJGyqb0lym+f!
E8wqOMNpf6QSteOmlzRC7ILdZWh85KdaGSvfpp60SFGcklHAGGr3Kaa9yXHp9nymHw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3820

In article <Me-538529.11221602072010@unknown.hwng.net>, Me
<Me@shadow.orgs> wrote:

>In article <rL-0207100517470001@10.0.1.7>,
> rL@somis.org (� R. L. Measures.) wrote:
>
>>     I can not understand why any sane amateur radio operator would want to
>> participate in a discussion group where specious statements from
>> boyfriends of the censor/modertor are shielded.
>>
>> end
>>
>> --
>> Richard L. Measures. AG6K,  805-386-3734, www.somis.org
>
>maybe it has something to do with the attitude you display on other
>Newsgroups you frequent......

�  I'm pretty sure your assumption is spot-on Mr. ______?  My problem is
that I can not keep quiet when a technical conclusion isn't right.

cheers
>
>Me         One who has been reading your stuff for YEARS.....

--
Richard L. Measures. AG6K,  805-386-3734, www.somis.org


From -4895340619555416768
X-Google-Thread: fc2a5,2768a7ac56ab0348
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
209.197.12.242.MISMATCH!nx01.iad01.newshosting.com!newshosting.com!
216.196.98.150.MISMATCH!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.posted.docknet!
```

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news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 02 Jul 2010 20:59:51 -0500
Date: Fri, 02 Jul 2010 18:59:46 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Moderated / Unmoderated ?
Message-ID: <rL-0207101859460001@10.0.1.7>
References: <rL-0207100517470001@10.0.1.7>
<Xns9DA9935EFA047VeebleFetzer@216.250.188.140>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-B91toizjaaIpeXoWwuKBsgso0DnM/Ag6AGs2t0T/TXPngWNFGvFWAK7WY/
XV12NSDr4qf1kdxiWYVs0!1p422reBvUcv8t2VMZ9u8Zsy4L48H2gDiunOMgdBnyako13kp2nHP/
JRszMtCDBaQw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3524

In article <Xns9DA9935EFA047VeebleFetzer@216.250.188.140>, Bert Hyman
<bert@iphouse.com> wrote:

>In news:rL-0207100517470001@10.0.1.7 rL@somis.org (� R. L. Measures.)
>wrote:
>
>> Fellow amateur radio operators:  Over the past 14-yrs I have been
>> jackbooted numerous times off of amateur radio discussion groups
>> because I critiqued somewhat less than technically correct statements
>> by a male friend of the moderator/censor.
>
>Really?
>
>Most people have absolutely no problem with moderated groups, which they
>find pleasantly free of crap.

�  Bert H. are uou comfortable with the statement: that dipmeters are
useless because they simultaneously couple to everything within several
feet?  or how anout: resistance wire has reverse RF skin-effect at HF?

--
Richard L. Measures. AG6K,  805-386-3734, www.somis.org


From 5271984867089500560
X-Google-Thread: fc2a5,a84e0c61c4e0dad2,start
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,a84e0c61c4e0dad2,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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Path: g2news2.google.com!postnews.google.com!j7g2000prj.googlegroups.com!not-for-
mail
From: "www.brandtrade10.com" <kissgoodbye5204@yahoo.com.cn>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: LRG T-shirt made in china (http://www.brandtrade99.com )
Date: Fri, 2 Jul 2010 21:02:23 -0700 (PDT)
Organization: http://groups.google.com
Lines: 39
Message-ID: <9bacaa2e-2495-49d6-b759-6de3a55c2253@j7g2000prj.googlegroups.com>
NNTP-Posting-Host: 58.22.69.16
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1278129743 22219 127.0.0.1 (3 Jul 2010 04:02:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Jul 2010 04:02:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j7g2000prj.googlegroups.com; posting-host=58.22.69.16;
     posting-account=8ZQzvAoAAACx0D0GopdrMsdXAHn1vXYl
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3822
rec.puzzles.crosswords:8435

nnike air max 360 basketball shoes  made in china (http://
www.brandtrade99.com
Lacoste shoes made in china (http://www.brandtrade99.com )
LV shoes made in china (http://www.brandtrade99.com )
Timberland shoes made in china (http://www.brandtrade99.com )
Evisu shoes made in china (http://www.brandtrade99.com )
D&G shoes made in china (http://www.brandtrade99.com )
nike running  made in china (http://www.brandtrade99.com )
prada shoes made in china (http://www.brandtrade99.com )
DSQ shoes made in china (http://www.brandtrade99.com )
nike football shoes made in china (http://www.brandtrade99.com )
nike DUNK shoes made in china (http://www.brandtrade99.com )
Rift shoes made in china (http://www.brandtrade99.com )
NBA basketball shoes made in china (http://www.brandtrade99.com )
adidas running made in china (http://www.brandtrade99.com )
adidas NBA shoes made in china (http://www.brandtrade99.com )
adidas 35th anniversary shoes made in china (http://
www.brandtrade99.com )
adicolor shoes made in china (http://www.brandtrade99.com )
adidas football shoes made in china (http://www.brandtrade99.com )
GGG hoody made in china (http://www.brandtrade99.com )
GGG T-shirt made in china (http://www.brandtrade99.com )
Armani T-shirt made in china (http://www.brandtrade99.com )
Armani shirt made in china (http://www.brandtrade99.com )
armani long t-shirt made in china (http://www.brandtrade99.com )
AF sweater made in china (http://www.brandtrade99.com )
AF women trousrs made in china (http://www.brandtrade99.com )
AF men and women coat made in china (http://www.brandtrade99.com )
D&G jeans made in china (http://www.brandtrade99.com )
```

A&G T-shirt made in china (http://www.brandtrade99.com)
BBC scanties made in china (http://www.brandtrade99.com)
BBC jeans made in china (http://www.brandtrade99.com)
BBC hoody made in china (http://www.brandtrade99.com)
BBC T-shirt made in china (http://www.brandtrade99.com)
LRG jeans made in china (http://www.brandtrade99.com)
LRG hoody made in china (http://www.brandtrade99.com)
LRG T-shirt made in china (http://www.brandtrade99.com)
Bape jeans made in china (http://www.brandtrade99.com)
Bape hoody made in china (http://www.brandtrade99.com)

From -2389458716973637898
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "Howard K0ACF" <howardk0acf@knology.net>
Newsgroups: rec.radio.amateur.homebrew
References: <rL-3006101023030001@10.0.1.7>
Subject: Re: Parasitic Oscillation
Date: Fri, 2 Jul 2010 23:52:04 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Original
Message-ID: <83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 40
X-Trace: 83cd94c2ec1f67d5b4fd704992
Xref: g2news1.google.com rec.radio.amateur.homebrew:3526

Glad to see you here Rich. I have learned a lot from you in your articles & your great help on the phone with my 3-500 amps that I couldn't stop a parasitic in. Your kit you sent me along with a lot of literature cured that amp & the suppressors don't burn up . Amps runs full out on 160 thru 10 mtrs. Again thanks for your help.
"� R. L. Measures." <rL@somis.org> wrote in message
news:rL-3006101023030001@10.0.1.7...
> Even though it does not appear on the schematic diagram, every tube-type
> HF amplifier has a resonant circuit in its anode circuitry that resonates
> somewhere in the VHF region. This called a parasitic resonance. Whenever
> the DC anode current changes, the parasitic circuit rings - much like a
> struck bell and generates a smallish damped wave signal at the VHF
> resonance point.   - note - this is the same principle that enabled spark
> transmtters to produce RF from a DC source.
> Since all tubes have feedback C between the output (anode) and the input
> (cathode for cathode-driven and grid for grid driven), the damped-wave VHF

> signal is amplified - whereupon some of the amplified signal can be
> fedback again and re-amplified -- resulting in oscillation.   Because
> tube gain is pettty much tube-transconductance x the resistive load (RL)
> on the anode, one way to reduce the chance of VHF oscillation is to
> artifically reduce the VHF gain of the tube by lowering the VHF-RL
> presented to the anode by the parasitic resonance. This is done by
> decreasing the VHF-Q of the parasitic resonance circuit. In other words,
> to decrease Q, increase R.   Traditionally this has been done by winding a
> Cu wire coil around a carbon-comp resistor and soldering the coil in
> parallel with the resistor.   In a typical 2. 3-500Z amplifier this
> configuration produces a Q of c. 5 at 100MHz. Misfortunately a Q of 5 is
> not quite low enough to reduce VHF gain enough so that oscillation can not
> be sustained It apparently takes a Q of 2 at 100MHz to achieve
> acceptable VHF stability. One way to decrease Q involves exchanging the
> highly-conductive Cu wire for highly-resistive Ni-Cr wire   This simple
> change results in a Q of c. 2 at 100MHz as measured on a HP 4191A
> Z-analyzer.   By using two Ni-Cr VHF suppressors per 2-500z, Q can be
> further reduced to c. 1.5.
> - end
>
> --
> Richard L. Measures. 805-386-3734,AG6K, www.somis.org

From 613722523018568327
X-Google-Thread: 241b302a50,2768a7ac56ab0348
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!goblin1!goblin3!goblin.stu.neva.ru!exi-transit.telstra.net!pit-in2.telstra.net!news.telstra.net!61.9.128.156.MISMATCH!viwinnwcl01.internal.bigpond.com!viwinnwfe02.internal.bigpond.com.POSTED!7564ea0f!not-for-mail
From: Adrian <vk4tux@bigpond.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.1.10) Gecko/20100621 Fedora/3.0.5-1.fc13 Thunderbird/3.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: IMD improvements
References: <rL-0207100517470001@10.0.1.7>
In-Reply-To: <rL-0207100517470001@10.0.1.7>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 24
Message-ID: <K6DXn.50$FH2.45@viwinnwfe02.internal.bigpond.com>
Date: Sat, 03 Jul 2010 19:08:58 +1000
NNTP-Posting-Host: 60.228.183.194
X-Complaints-To: abuse@bigpond.net.au
X-Trace: viwinnwfe02.internal.bigpond.com 1278148138 60.228.183.194 (Sat, 03 Jul 2010 19:08:58 EST)
NNTP-Posting-Date: Sat, 03 Jul 2010 19:08:58 EST

Organization: BigPond
Xref: g2news1.google.com rec.radio.amateur.homebrew:3527

Question here for Richard and his wealth of experience, with all welcome to comment of course;

Does the capacitor bypass techniques described in:

http://www.bunkerofdoom.com/lit/zener/index.html

,have a useful improvement in rf amplifier imd, or have any merit in your opinion?

I took your advice on 10 ohm cathode resistors (unbypassed) in a cathode driven sweep tube amp here, and 40m imd performance was substantially improved.

Thanks for the sb220 improvements also, very beneficial on a HL2200 I had in the past.

73

Adrian

vk4tux

From -9139482099230533763
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 03 Jul 2010 05:38:58 -0500
Date: Sat, 03 Jul 2010 03:38:53 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Message-ID: <rL-0307100338530001@10.0.1.7>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 47
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-IetqdrnQ7cvWnNcoJJJSCdCf4g/
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0OVASR1YZQVeAdcbxXcgbTdIsK+qKyVMGg++jGc7qdFbdb8XDSrLmgRW6jYVPlxQ4w==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers

```
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3528

In article <83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET>, "Howard K0ACF"
<howardk0acf@knology.net> wrote:

>Glad to see you here Rich. I have learned a lot from you in your articles &
>your great help on the phone with my 3-500 amps that I couldn't stop a
>parasitic in. Your kit you sent me along with a lot of literature cured that
>amp & the suppressors don't burn up . Amps runs full out on 160 thru 10
>mtrs. Again thanks for your help.

�  ur welcome Howard.  73

>"� R. L. Measures." <rL@somis.org> wrote in message
>news:rL-3006101023030001@10.0.1.7...
>> Even though it does not appear on the schematic diagram, every tube-type
>> HF amplifier has a resonant circuit in its anode circuitry that resonates
>> somewhere in the VHF region.  This called a parasitic resonance.  Whenever
>> the DC anode current changes, the parasitic circuit rings - much like a
>> struck  bell and generates a smallish damped wave signal at the VHF
>> resonance point.    - note - this is the same principle that enabled spark
>> transmtters to produce RF from a DC source.
>>  Since all tubes have feedback C between the output (anode) and the input
>> (cathode for cathode-driven and grid for grid driven), the damped-wave VHF
>> signal is amplified - whereupon some of the amplified signal can be
>> fedback again and re-amplified -- resulting in oscillation.    Because
>> tube gain is pettty much tube-transconductance x the resistive load (RL)
>> on the anode, one way to reduce the chance of VHF oscillation is to
>> artifically reduce the VHF gain of the tube by lowering the VHF-RL
>> presented to the anode by the parasitic resonance.  This is done by
>> decreasing the VHF-Q of the parasitic resonance circuit.  In other words,
>> to decrease Q, increase R.   Traditionally this has been done by winding a
>> Cu wire coil around a carbon-comp resistor and soldering the coil in
>> parallel with the resistor.   In a typical 2. 3-500Z amplifier this
>> configuration produces a Q of c. 5 at 100MHz.  Misfortunately a Q of 5 is
>> not quite low enough to reduce VHF gain enough so that oscillation can not
>> be sustained  It apparently takes a Q of  2 at 100MHz to achieve
>> acceptable VHF stability.  One way to decrease Q involves exchanging the
>> highly-conductive Cu wire for highly-resistive Ni-Cr wire   This simple
>> change results in a Q of c. 2 at 100MHz as measured on a HP 4191A
>> Z-analyzer.    By using  two Ni-Cr  VHF suppressors per 2-500z, Q can be
>> further reduced to c. 1.5.
>> -  end
>>
>> --
>> Richard L. Measures. 805-386-3734,AG6K, www.somis.org

--
Richard L. Measures. AG6K,  805-386-3734, www.somis.org
```

From 1950886368719418820
X-Google-Thread: fc2a5,2768a7ac56ab0348
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 03 Jul 2010 05:54:02 -0500
Date: Sat, 03 Jul 2010 03:53:53 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: IMD improvements
Message-ID: <rL-0307100353530001@10.0.1.7>
References: <rL-0207100517470001@10.0.1.7>
<K6DXn.50$FH2.45@viwinnwfe02.internal.bigpond.com>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 37
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NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-
Xv2miljdrbLQHvW31BvBLzhFTjNnfdwEkEr9VCxYV8nU8/8Q4B5MYhDh8tXSHS7i2V+ETCLIG0zTKLm!
AL3JBa6O0UEVvtqK/i5QgITzTTuS3mvpbFTMFfG8u+BgE5Ii+eoVPwP8GTijlkBy7Q==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3529

In article <K6DXn.50$FH2.45@viwinnwfe02.internal.bigpond.com>, Adrian
<vk4tux@bigpond.com> wrote:

>Question here for Richard and his wealth of experience, with all welcome
>to comment of course;
>
>Does the capacitor bypass techniques described in:
>
>http://www.bunkerofdoom.com/lit/zener/index.html

>,have a useful improvement in rf amplifier imd, or have any merit in
>your opinion?

� I've never done an A/B test to see if a substantial bypass C helps
Adrian but since a g-g 3-500Z is quite linear as long as its ZSAC is 75mA
to 100mA, there can be a fairly wide variation in bias potential before
distortion enters the picture.
>

>
>I took your advice on 10 ohm cathode resistors (unbypassed) in a cathode
>driven sweep tube amp here, and 40m imd performance was substantially
>improved.

```
� good news.
>
>Thanks for the sb220 improvements also, very beneficial on a HL2200 I
>had in the past.
>
ur welcome Adrian

cheers
>
>vk4tux

--
Richard L. Measures. AG6K,  805-386-3734, www.somis.org


From -6620167073089757690
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder3.cambriumusenet.nl!
feed.tweaknews.nl!194.109.133.84.MISMATCH!newsfeed.xs4all.nl!
newsfeed5.news.xs4all.nl!xs4all!newsgate.cistron.nl!newsgate.news.xs4all.nl!
post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Parasitic Oscillation
References: <rL-3006101023030001@10.0.1.7>
 <83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrni2u6an.l8m.nomail@xs8.xs4all.nl>
Date: 03 Jul 2010 11:04:55 GMT
Lines: 4
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1278155095 news.xs4all.nl 22916 [::ffff:194.109.21.8]:51267
X-Complaints-To: abuse@xs4all.nl
Xref: g2news2.google.com rec.radio.amateur.homebrew:3827

<95> R. L. Measures. <rL@somis.org> wrote:

The character <95> you seem to be fond of is not part of the character
set you use for your news postings.


From -4689139344687315851
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 03 Jul 2010 06:44:16 -0500
Date: Sat, 03 Jul 2010 04:44:11 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Message-ID: <rL-0307100444110001@10.0.1.7>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
<slrni2u6an.l8m.nomail@xs8.xs4all.nl>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 13
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-yKSPI3+juQT5lHajCZVNofMlJZjAx0L0b4IPOV2sRcvH5+Bc1SaobV/
BREeARxaEyPxJwyDJuY5aqi2!
RMhKPUPUvjqbaoLajiKwn7N6XEQphRCJy8Rs5EJyj7yh49m15gTxI6DQm5xUO5y1ew==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3531

In article <slrni2u6an.l8m.nomail@xs8.xs4all.nl>, Rob <nomail@example.com> wrote:

><95> R. L. Measures. <rL@somis.org> wrote:
>
>The character <95> you seem to be fond of is not part of the character
>set you use for your news postings.

** I did not send <95>.   I use a UNIX-based operating system.   If you were using a UNIX based OS you would see what I actually write Rob. cheers

--
Richard L. Measures. AG6K, 805-386-3734, www.somis.org

From 1725358835907075043
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder3.cambriumusenet.nl!
feed.tweaknews.nl!193.201.147.68.MISMATCH!feeder.news-service.com!feeds.phibee-telecom.net!newsfeed.xs4all.nl!newsfeed5.news.xs4all.nl!xs4all!
post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Parasitic Oscillation
References: <rL-3006101023030001@10.0.1.7>

```
 <83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
 <slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrni2u9nf.l8m.nomail@xs8.xs4all.nl>
Date: 03 Jul 2010 12:02:55 GMT
Lines: 20
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1278158575 news.xs4all.nl 22941 [::ffff:194.109.21.8]:59071
X-Complaints-To: abuse@xs4all.nl
Xref: g2news2.google.com rec.radio.amateur.homebrew:3829

<95> R. L. Measures. <rL@somis.org> wrote:
> In article <slrni2u6an.l8m.nomail@xs8.xs4all.nl>, Rob <nomail@example.com>
> wrote:
>
>><95> R. L. Measures. <rL@somis.org> wrote:
>>
>>The character <95> you seem to be fond of is not part of the character
>>set you use for your news postings.
>
> ** I did not send <95>.   I use a UNIX-based operating system.   If you
> were using a UNIX based OS you would see what I actually write Rob. cheers

I am using Linux.  But I guess that does not count as a UNIX based OS.

Check what is in your fullname config setting.  There is a character
with hex value 95 there.  But you don't have the matching character set
header that is supposed to tell what that character should mean.

(without a character set header, the default character set is 7-bit ASCII
which does not include <95>)


From -8281653563817790l2
X-Google-Thread: fc2a5,2768a7ac56ab0348
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!feed-
me.highwinds-media.com!nntp.club.cc.cmu.edu!feeder.erje.net!feeder.news-
service.com!cyclone03.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf02.ams.highwinds-media.com!newsfe15.ams2.POSTED!7564ea0f!not-for-mail
Message-ID: <jvMUhGDaxyLMFwUZ@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Moderated / Unmoderated ?
References: <rL-0207100517470001@10.0.1.7>
 <Xns9DA9935EFA047VeebleFetzer@216.250.188.140>
Lines: 21
MIME-Version: 1.0
```

```
Content-Type: text/plain;charset=utf-8;format=flowed
Content-Transfer-Encoding: 8bit
User-Agent: Turnpike/6.06-S (<w5XqWqw8KPjLqOCj92Koec3vGl>)
NNTP-Posting-Date: Sat, 03 Jul 2010 12:26:09 UTC
Date: Sat, 3 Jul 2010 13:26:02 +0100
Xref: g2news1.google.com rec.radio.amateur.homebrew:3533

In message <Xns9DA9935EFA047VeebleFetzer@216.250.188.140>, Bert Hyman
<bert@iphouse.com> writes
>In news:rL-0207100517470001@10.0.1.7 rL@somis.org (• R. L. Measures.)
>wrote:
>
>> Fellow amateur radio operators:  Over the past 14-yrs I have been
>> jackbooted numerous times off of amateur radio discussion groups
>> because I critiqued somewhat less than technically correct statements
>> by a male friend of the moderator/censor.
>
>Really?
>
>Most people have absolutely no problem with moderated groups, which they
>find pleasantly free of crap.
>
Over the past 10 years, on several occasions I've tried to post
perfectly innocuous and on-topic comments in
rec.radio.amateur.moderated. So far, not one has appeared. What am I
doing wrong?
--
Ian


From -6409853108859081714
X-Google-Thread: fc2a5,2768a7ac56ab0348
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx01.iad01.newshosting.com!
newshosting.com!204.153.245.137.MISMATCH!pink.octanews.net!news-out.octanews.net!
indigo.octanews.net!news-2.mpls.iphouse.net.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Moderated / Unmoderated ?
From: Bert Hyman <bert@iphouse.com>
References: <rL-0207100517470001@10.0.1.7>
<Xns9DA9935EFA047VeebleFetzer@216.250.188.140>
<jvMUhGDaxyLMFwUZ@g3ohx.demon.co.uk>
Organization: Not that you'd notice
Message-ID: <Xns9DAA635F4558CVeebleFetzer@216.250.188.141>
User-Agent: Xnews/2006.08.24
Date: 03 Jul 2010 14:46:07 GMT
Lines: 30
NNTP-Posting-Date: 03 Jul 2010 09:46:07 CDT
NNTP-Posting-Host: 5a2d7bcf.newsreader.iphouse.net
X-Trace:
```

```
DXC=UVZFYi`>dch;`KnLU\7EmnVn\Tj8`^BbkeHS>e[L>83`=@4<S;O@\Qa1UFgaF43:7l>ZOjI5>^e0f0
kW^<R^TSMk
X-Complaints-To: abuse@iphouse.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:3831

In news:jvMUhGDaxyLMFwUZ@g3ohx.demon.co.uk Ian Jackson
<ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:

> In message <Xns9DA9935EFA047VeebleFetzer@216.250.188.140>, Bert Hyman
><bert@iphouse.com> writes
>>In news:rL-0207100517470001@10.0.1.7 rL@somis.org (• R. L.
>>Measures.) wrote:
>>
>>> Fellow amateur radio operators:  Over the past 14-yrs I have been
>>> jackbooted numerous times off of amateur radio discussion groups
>>> because I critiqued somewhat less than technically correct
>>> statements by a male friend of the moderator/censor.
>>
>>Really?
>>
>>Most people have absolutely no problem with moderated groups, which
>>they find pleasantly free of crap.
>>
> Over the past 10 years, on several occasions I've tried to post
> perfectly innocuous and on-topic comments in
> rec.radio.amateur.moderated. So far, not one has appeared. What am I
> doing wrong?

Maybe using the wrong news provider. Not all news providers have their
servers configured to handle moderated newsgroups properly.

Otherwise, have you asked the moderator?

--
Bert Hyman    W0RSB     St. Paul, MN  bert@iphouse.com


From -9168047602488259955
X-Google-Thread: fc2a5,2768a7ac56ab0348
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!feed.xsnews.nl!
border-2.ams.xsnews.nl!feeder.news-service.com!cyclone03.ams2.highwinds-media.com!
news.highwinds-media.com!npeersf02.ams.highwinds-media.com!newsfe15.ams2.POSTED!
7564ea0f!not-for-mail
Message-ID: <$7OTE6NTC1LMFwG8@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Moderated / Unmoderated ?
References: <rL-0207100517470001@10.0.1.7>
 <Xns9DA9935EFA047VeebleFetzer@216.250.188.140>
 <jvMUhGDaxyLMFwUZ@g3ohx.demon.co.uk>
 <Xns9DAA635F4558CVeebleFetzer@216.250.188.141>
Lines: 39
MIME-Version: 1.0
Content-Type: text/plain;charset=utf-8;format=flowed
Content-Transfer-Encoding: 8bit
User-Agent: Turnpike/6.06-S (<X4dqWuZfKPDB8PCj1RJoeAxHXJ>)
NNTP-Posting-Date: Sat, 03 Jul 2010 15:00:41 UTC
Date: Sat, 3 Jul 2010 16:00:35 +0100
Xref: g2news2.google.com rec.radio.amateur.homebrew:3832

In message <Xns9DAA635F4558CVeebleFetzer@216.250.188.141>, Bert Hyman
<bert@iphouse.com> writes
>In news:jvMUhGDaxyLMFwUZ@g3ohx.demon.co.uk Ian Jackson
><ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>
>> In message <Xns9DA9935EFA047VeebleFetzer@216.250.188.140>, Bert Hyman
>><bert@iphouse.com> writes
>>>In news:rL-0207100517470001@10.0.1.7 rL@somis.org (â€¢ R. L.
>>>Measures.) wrote:
>>>
>>>> Fellow amateur radio operators:  Over the past 14-yrs I have been
>>>> jackbooted numerous times off of amateur radio discussion groups
>>>> because I critiqued somewhat less than technically correct
>>>> statements by a male friend of the moderator/censor.
>>>
>>>Really?
>>>
>>>Most people have absolutely no problem with moderated groups, which
>>>they find pleasantly free of crap.
>>>
>> Over the past 10 years, on several occasions I've tried to post
>> perfectly innocuous and on-topic comments in
>> rec.radio.amateur.moderated. So far, not one has appeared. What am I
>> doing wrong?
>
>Maybe using the wrong news provider. Not all news providers have their
>servers configured to handle moderated newsgroups properly.
>
My news reader (Demon's 'Turnpike') has the 'moderated' box checked in
the configuration for rec.radio.amateur.moderated (which is the default
when you add a new NG which is moderated). I don't think that there have
been problems with other moderated NGs although, these days, I only post
occasionally in uk.legal.moderated.

>Otherwise, have you asked the moderator?
>
No. Apathy is my middle name!
--
Ian


From 5571195745197331340
X-Google-Thread: fc2a5,c77ff0d352b9c009,start
```

X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!FOXVALLEY.NET-a2kHrUvQQWlmc!not-for-mail
Date: Sat, 03 Jul 2010 10:37:40 -0600
From: Jack Schmidling <jack@schmidling.com>
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Transmitter From Heaven
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <17c39$4c2f675f$4087c807$2426@FOXVALLEY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 27
X-Trace: 17c394c2f675fe5226da202426
Xref: g2news2.google.com rec.radio.amateur.homebrew:3833

The link below seems like something hams should have done long ago. I assume there is some reason not to but thought I would float it here.

The front end is easy and has been done many times for Class D and Class E transmitters.

The unique part is the stacking of low voltage modulators to achieve high voltage for tubes.

Seems like scaling this down to our power levels would be pretty straight forward but I don't happen to know how to do it.

Wa1QIX has a PDM Modulator board/kit that I have on order which solves most of the front end details but the series modulator boards are beyond my pay grade.

Anyone on this list have any interest or ideas on the subject?

http://www.contelec.com/SSM.html

Jack K9ACT

Astronomy, Beer, Cheese, Fiber, Gems,
Nature, Radio, Sheep, Sausage, Silver

http://schmidling.com

From 2703456164652819452
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes

```
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
feeder.erje.net!news2.arglkargh.de!news.mixmin.net!aioe.org!not-for-mail
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Date: Sat, 03 Jul 2010 14:21:14 -0400
Organization: Aioe.org NNTP Server
Lines: 15
Message-ID: <fmmck-58EAE8.14211403072010@5ad64b5e.bb.sky.com>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
<slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
NNTP-Posting-Host: L9fwDgrGs0IQxrkUWCRE2w.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3537

In article <rL-0307100444110001@10.0.1.7>,
 rL@somis.org (� R. L. Measures.) wrote:

> If you
> were using a UNIX based OS you would see what I actually write

Richard-

Is it the OS, or is it the font?

I see a � character that may be different from what you see.  What font
are you using?

Fred
K4DII


From 673763265053871536
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!feeder.news-service.com!newsfeed.xs4all.nl!
newsfeed5.news.xs4all.nl!xs4all!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Parasitic Oscillation
References: <rL-3006101023030001@10.0.1.7>
```

```
 <83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
 <slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
 <fmmck-58EAE8.14211403072010@5ad64b5e.bb.sky.com>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrni2v0ir.t6i.nomail@xs8.xs4all.nl>
Date: 03 Jul 2010 18:32:59 GMT
Lines: 17
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1278181979 news.xs4all.nl 22913 [::ffff:194.109.21.8]:37125
X-Complaints-To: abuse@xs4all.nl
Xref: g2news2.google.com rec.radio.amateur.homebrew:3835

Fred McKenzie <fmmck@aol.com> wrote:
> In article <rL-0307100444110001@10.0.1.7>,
>  rL@somis.org (<95> R. L. Measures.) wrote:
>
>> If you
>> were using a UNIX based OS you would see what I actually write
>
> Richard-
>
> Is it the OS, or is it the font?
>
> I see a <95> character that may be different from what you see.  What font
> are you using?

His postings do not specify the character set he is using.
Probably it is Windows-1252.  A more standard character set leaves the
character <95> undefined.


From 3524181278024172240
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!feeder2.news.elisa.fi!uutiset.elisa.fi!7564ea0f!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Message-ID: <fk2v265a24b74nq88pn8eepdmh474321n7@4ax.com>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
<slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
<fmmck-58EAE8.14211403072010@5ad64b5e.bb.sky.com>
<slrni2v0ir.t6i.nomail@xs8.xs4all.nl>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
```

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 31
Date: Sat, 03 Jul 2010 22:18:27 +0300
NNTP-Posting-Host: 85.76.103.91
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1278184706 85.76.103.91 (Sat, 03 Jul 2010 22:18:26 EEST)
NNTP-Posting-Date: Sat, 03 Jul 2010 22:18:26 EEST
Organization: Elisa Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:3836

On 03 Jul 2010 18:32:59 GMT, Rob <nomail@example.com> wrote:

>Fred McKenzie <fmmck@aol.com> wrote:
>> In article <rL-0307100444110001@10.0.1.7>,
>> rL@somis.org (<95> R. L. Measures.) wrote:
>>
>>> If you
>>> were using a UNIX based OS you would see what I actually write
>>
>> Richard-
>>
>> Is it the OS, or is it the font?
>>
>> I see a <95> character that may be different from what you see. What font
>> are you using?
>
>His postings do not specify the character set he is using.
>Probably it is Windows-1252.

Most likely, if that code was supposed to represent a bullet.

>A more standard character set leaves the
>character <95> undefined.

Codes 80..9F hex and U+0080 .. U+009F belong to the C1 control area in
many standards (ISO 8859 and Unicode) and 95h represents "Message
Waiting" control code.

While I have used C1 controls to control terminals, I do not recall
that I would have used MW :-).

From -322708761006151942
X-Google-Thread: fc2a5,2768a7ac56ab0348
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail

NNTP-Posting-Date: Sat, 03 Jul 2010 16:17:04 -0500
Date: Sat, 03 Jul 2010 14:16:55 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Moderated / Unmoderated ?
Message-ID: <rL-0307101416550001@10.0.1.7>
References: <rL-0207100517470001@10.0.1.7>
<Xns9DA9935EFA047VeebleFetzer@216.250.188.140>
<jvMUhGDaxyLMFwUZ@g3ohx.demon.co.uk>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 32
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-
YhhUsHjQdD30iVDmArB+c2faAwyOARglzoizGjI8ybPLbx7TdWMtWu7iQdMOmvndfeNSnRizhvpT7BG!
uy9ire3D2FpDmT+hp6h+pRcDuHDK/H4NdBeyBaKZb+gdIjiv2bAPbNHqa9PbQ1LutA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3837

In article <jvMUhGDaxyLMFwUZ@g3ohx.demon.co.uk>, Ian Jackson
<ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:

>In message <Xns9DA9935EFA047VeebleFetzer@216.250.188.140>, Bert Hyman
><bert@iphouse.com> writes
>>In news:rL-0207100517470001@10.0.1.7 rL@somis.org (• R. L. Measures.)
>>wrote:
>>
>>> Fellow amateur radio operators: Over the past 14-yrs I have been
>>> jackbooted numerous times off of amateur radio discussion groups
>>> because I critiqued somewhat less than technically correct statements
>>> by a male friend of the moderator/censor.
>>
>>Really?
>>
>>Most people have absolutely no problem with moderated groups, which they
>>find pleasantly free of crap.
>>
>Over the past 10 years, on several occasions I've tried to post
>perfectly innocuous and on-topic comments in
>rec.radio.amateur.moderated. So far, not one has appeared. What am I
>doing wrong?

** You are not a drinkin' bud of the moderator / censor?
You are not a groupie of one of the alpha males in the Newsgroup?
You do not periodicly osculate the posterior of the moderator?
You do not belong to the same country club as the above?

chers Ian J.

--

Richard L. Measures. AG6K, 805-386-3734, www.somis.org

```
From -4253974302571608522
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 03 Jul 2010 20:22:02 -0500
Date: Sat, 03 Jul 2010 18:21:57 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Message-ID: <rL-0307101821570001@10.0.1.7>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
<slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
<slrni2u9nf.l8m.nomail@xs8.xs4all.nl>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 32
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-PdCBd1VJ6L2P0pFo/dXN/
Qr1viYTu7kfzgqvSYhPyXdxV3k87D8OPG7Cmib7K7iyAOMviOcc50l/1B+!
+I5IYakifRrabcPbeiV8vtAqGEKwLJ8ZQ8MxVkM1JwhEFunH4qRvxeh2EFeOKo3pNA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3838

In article <slrni2u9nf.l8m.nomail@xs8.xs4all.nl>, Rob <nomail@example.com>
wrote:

><95> R. L. Measures. <rL@somis.org> wrote:
>> In article <slrni2u6an.l8m.nomail@xs8.xs4all.nl>, Rob <nomail@example.com>
>> wrote:
>>
>>><95> R. L. Measures. <rL@somis.org> wrote:
>>>
>>>The character <95> you seem to be fond of is not part of the character
>>>set you use for your news postings.
>>
>> ** I did not send <95>.   I use a UNIX-based operating system.   If you
>> were using a UNIX based OS you would see what I actually write Rob. cheers
>
>I am using Linux.  But I guess that does not count as a UNIX based OS.

**  I don't know Rob.  I am using Apple's 10.4 OS.
>
```

>Check what is in your fullname config setting.

** I am not using an OS with such a setting in the system prefs.

>There is a character
>with hex value 95 there. But you don't have the matching character set
>header that is supposed to tell what that character should mean.
>
>(without a character set header, the default character set is 7-bit ASCII
>which does not include <95>)

--
Richard L. Measures. AG6K, 805-386-3734, www.somis.org

```
From 4708672377447334485
X-Google-Thread: 241b302a50,27cd070beba58b22
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 03 Jul 2010 20:24:57 -0500
Date: Sat, 03 Jul 2010 18:24:52 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Message-ID: <rL-0307101824520001@10.0.1.7>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
<slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
<fmmck-58EAE8.14211403072010@5ad64b5e.bb.sky.com>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 25
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-
CZpAmtHs+b1+YYtV9pJ+TSIdJij9vN3sIGJDQhsYQtDHGcgzcOLW29Luisd90cz1anXu76Rg4k0Dm+m!
juUdBCzYqel8IcDr0Efb6oOXBflQ0kNTWehzA34nIHJTQuGzVeuPjizCY+1BwlQzWQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3542
```

In article <fmmck-58EAE8.14211403072010@5ad64b5e.bb.sky.com>, Fred
McKenzie <fmmck@aol.com> wrote:

>In article <rL-0307100444110001@10.0.1.7>,
> rL@somis.org (� R. L. Measures.) wrote:
>
>> If you

```
>> were using a UNIX based OS you would see what I actually write
>
>Richard-
>
>Is it the OS, or is it the font?
>
>I see a � character

�  Correct Fred.

>that may be different from what you see.  What font
>are you using?
>
>Fred
>K4DII

--
Richard L. Measures. AG6K,  805-386-3734, www.somis.org


From -8704709350114527038
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 03 Jul 2010 20:27:23 -0500
Date: Sat, 03 Jul 2010 18:27:18 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Message-ID: <rL-0307101827180001@10.0.1.7>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
<slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
<fmmck-58EAE8.14211403072010@5ad64b5e.bb.sky.com>
<slrni2v0ir.t6i.nomail@xs8.xs4all.nl> <fk2v265a24b74nq88pn8eepdmh474321n7@4ax.com>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 40
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-X7s7VpJ4lNluHzUApVmdSKlluN/OJ0vcTVoSTFdXFe/
A6WXAMYbQzyXeSW7atxGuUZluv3UdGPfq2Rn!hDJYaTIMqhy2lfa8RU/uWCLyUpy+
+5ihGnQ65g5Q9wRdZl2xnL7308pmBFpvmhGD9g==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3840

In article <fk2v265a24b74nq88pn8eepdmh474321n7@4ax.com>, Paul Keinanen
```

```
<keinanen@sci.fi> wrote:

>On 03 Jul 2010 18:32:59 GMT, Rob <nomail@example.com> wrote:
>
>>Fred McKenzie <fmmck@aol.com> wrote:
>>> In article <rL-0307100444110001@10.0.1.7>,
>>>  rL@somis.org (<95> R. L. Measures.) wrote:
>>>
>>>> If you
>>>> were using a UNIX based OS you would see what I actually write
>>>
>>> Richard-
>>>
>>> Is it the OS, or is it the font?
>>>
>>> I see a <95> character that may be different from what you see.  What font
>>> are you using?
>>
>>His postings do not specify the character set he is using.
>>Probably it is Windows-1252.
>
>Most likely, if that code was supposed to represent a bullet.

�  The bullet charcter on Apple's 10.4 OS is option-8   �
Shift-option k is �
>
>>A more standard character set leaves the
>>character <95> undefined.
>
>Codes 80..9F hex and U+0080 .. U+009F belong to the C1 control area in
>many standards (ISO 8859 and Unicode) and 95h represents "Message
>Waiting" control code.
>
>While I have used C1 controls to control terminals, I do not recall
>that  I would have used MW :-).
>

--
Richard L. Measures. AG6K,  805-386-3734, www.somis.org


From -3631283340650171621
X-Google-Thread: 241b302a50,27cd070beba58b22
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!news2.arglkargh.de!zen.net.uk!dedekind.zen.co.uk!aioe.org!not-for-
mail
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
```

```
Date: Sat, 03 Jul 2010 23:28:33 -0400
Organization: Aioe.org NNTP Server
Lines: 22
Message-ID: <fmmck-F7005A.23283303072010@5ad64b5e.bb.sky.com>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
<slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
<fmmck-58EAE8.14211403072010@5ad64b5e.bb.sky.com> <rL-0307101824520001@10.0.1.7>
NNTP-Posting-Host: FyZcf1jnPHAv/yGRd2CkUw.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3544
```

In article <rL-0307101824520001@10.0.1.7>,
 rL@somis.org (� R. L. Measures.) wrote:

> >I see a � character
>
> � Correct Fred.

Then it IS the font, even though you don't know what I see!

I've had problems with "high ASCII" characters over the years. One that caused problems was Microsoft's use of such a character for the 1/2 fraction, which appears as an Omega symbol (�) on my screen. Until I realized what was happening, some Word documents didn't make sense. Fortunately, newer versions of Word for Mac fixed the problem.

I think the point others were trying to make, is that your use of the <95> (�) character looks bad when viewed by many people. It isn't a Unix character, it is a Macintosh font character that was in use before OS X came on the scene.

Fred
K4DII

```
From -5526065468608329844
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!news2.euro.net!
newsfeed.xs4all.nl!newsfeed6.news.xs4all.nl!xs4all!post.news.xs4all.nl!not-for-
mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Parasitic Oscillation
References: <rL-3006101023030001@10.0.1.7>
```

 <83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
 <slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
 <slrni2u9nf.l8m.nomail@xs8.xs4all.nl> <rL-0307101821570001@10.0.1.7>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrni30d5r.clt.nomail@xs8.xs4all.nl>
Date: 04 Jul 2010 07:14:03 GMT
Lines: 45
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1278227643 news.xs4all.nl 22942 [::ffff:194.109.21.8]:32865
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:3545

<95> R. L. Measures. <rL@somis.org> wrote:
> In article <slrni2u9nf.l8m.nomail@xs8.xs4all.nl>, Rob <nomail@example.com>
> wrote:
>
>><95> R. L. Measures. <rL@somis.org> wrote:
>>> In article <slrni2u6an.l8m.nomail@xs8.xs4all.nl>, Rob <nomail@example.com>
>>> wrote:
>>>
>>>><95> R. L. Measures. <rL@somis.org> wrote:
>>>>
>>>>The character <95> you seem to be fond of is not part of the character
>>>>set you use for your news postings.
>>>
>>> ** I did not send <95>.   I use a UNIX-based operating system.   If you
>>> were using a UNIX based OS you would see what I actually write Rob. cheers
>>
>>I am using Linux. But I guess that does not count as a UNIX based OS.
>
> ** I don't know Rob. I am using Apple's 10.4 OS.

It doesn't matter anyway.
The OS has nothing to do with this.
Your news program is broken, or does not expect the use you make of it.

As your news program does not tell what character set you use, you should
limit your characters to the 00-7F range.

>>Check what is in your fullname config setting.
>
> ** I am not using an OS with such a setting in the system prefs.

Probably it is in your news program.
Somewhere you have set that your name, "<95> R. L. Measures.", has to
appear above your news postings.
When you change that to "R. L. Measures" all trouble is gone.

And don't insert that character in replies either.

```
>>There is a character
>>with hex value 95 there.  But you don't have the matching character set
>>header that is supposed to tell what that character should mean.
>>
>>(without a character set header, the default character set is 7-bit ASCII
>>which does not include <95>)
>


From -7982123598011599783
X-Google-Thread: fc2a5,2768a7ac56ab0348
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.musoftware.de!
wum.musoftware.de!newsfeed.kamp.net!newsfeed.kamp.net!feed.xsnews.nl!
border-1.ams.xsnews.nl!69.16.177.246.MISMATCH!cyclone03.ams2.highwinds-media.com!
news.highwinds-media.com!npeersf01.ams.highwinds-media.com!newsfe21.ams2.POSTED!
7564ea0f!not-for-mail
Message-ID: <su1HxsBhUDMMFwcA@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Moderated / Unmoderated ?
References: <rL-0207100517470001@10.0.1.7>
 <Xns9DA9935EFA047VeebleFetzer@216.250.188.140>
 <jvMUhGDaxyLMFwUZ@g3ohx.demon.co.uk> <rL-0307101416550001@10.0.1.7>
Lines: 35
MIME-Version: 1.0
Content-Type: text/plain;charset=utf-8;format=flowed
Content-Transfer-Encoding: 8bit
User-Agent: Turnpike/6.06-S (<36RqWmhfKPjC0PCjFxLoeA73nN>)
NNTP-Posting-Date: Sun, 04 Jul 2010 07:15:51 UTC
Date: Sun, 4 Jul 2010 08:15:45 +0100
Xref: g2news1.google.com rec.radio.amateur.homebrew:3546

In message <rL-0307101416550001@10.0.1.7>, • R. L. Measures.
<rL@somis.org.invalid> writes
>In article <jvMUhGDaxyLMFwUZ@g3ohx.demon.co.uk>, Ian Jackson
><ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>
>>In message <Xns9DA9935EFA047VeebleFetzer@216.250.188.140>, Bert Hyman
>><bert@iphouse.com> writes
>>>In news:rL-0207100517470001@10.0.1.7 rL@somis.org (â€¢ R. L. Measures.)
>>>wrote:
>>>
>>>> Fellow amateur radio operators:  Over the past 14-yrs I have been
>>>> jackbooted numerous times off of amateur radio discussion groups
>>>> because I critiqued somewhat less than technically correct statements
>>>> by a male friend of the moderator/censor.
>>>
>>>Really?
>>>
>>>Most people have absolutely no problem with moderated groups, which they
```

```
>>>find pleasantly free of crap.
>>>
>>Over the past 10 years, on several occasions I've tried to post
>>perfectly innocuous and on-topic comments in
>>rec.radio.amateur.moderated. So far, not one has appeared. What am I
>>doing wrong?
>
>**  You are not a drinkin' bud of the moderator / censor?
>You are not a groupie of one of the alpha males in the Newsgroup?
>You do not periodicly osculate the posterior of the moderator?
>You do not belong to the same country club as the above?
>
I have received advice which leads me to suspect that my news machine
may, in the case of rec.radio.amateur.moderated, be sending my posts to
the wrong email address. If so, this would explain the problem.
--
Ian



From -7823784960185710090
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!193.201.147.93.MISMATCH!xlned.com!feeder7.xlned.com!
news2.euro.net!newsgate.cistron.nl!newsgate.news.xs4all.nl!
194.109.133.84.MISMATCH!newsfeed.xs4all.nl!newsfeed5.news.xs4all.nl!xs4all!
post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Parasitic Oscillation
References: <rL-3006101023030001@10.0.1.7>
 <83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
 <slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
 <fmmck-58EAE8.14211403072010@5ad64b5e.bb.sky.com>
 <slrni2v0ir.t6i.nomail@xs8.xs4all.nl>
 <fk2v265a24b74nq88pn8eepdmh474321n7@4ax.com> <rL-0307101827180001@10.0.1.7>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrni30d9v.clt.nomail@xs8.xs4all.nl>
Date: 04 Jul 2010 07:16:15 GMT
Lines: 36
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1278227775 news.xs4all.nl 22942 [::ffff:194.109.21.8]:32865
X-Complaints-To: abuse@xs4all.nl
Xref: g2news2.google.com rec.radio.amateur.homebrew:3844

<95> R. L. Measures. <rL@somis.org> wrote:
> In article <fk2v265a24b74nq88pn8eepdmh474321n7@4ax.com>, Paul Keinanen
> <keinanen@sci.fi> wrote:
```

```
>
>>On 03 Jul 2010 18:32:59 GMT, Rob <nomail@example.com> wrote:
>>
>>>Fred McKenzie <fmmck@aol.com> wrote:
>>>> In article <rL-0307100444110001@10.0.1.7>,
>>>>  rL@somis.org (<95> R. L. Measures.) wrote:
>>>>
>>>>> If you
>>>>> were using a UNIX based OS you would see what I actually write
>>>>
>>>> Richard-
>>>>
>>>> Is it the OS, or is it the font?
>>>>
>>>> I see a <95> character that may be different from what you see.  What font
>>>> are you using?
>>>
>>>His postings do not specify the character set he is using.
>>>Probably it is Windows-1252.
>>
>>Most likely, if that code was supposed to represent a bullet.
>
> <95>  The bullet charcter on Apple's 10.4 OS is option-8   <80>
> Shift-option k is <95>

You apparently don't understand that what you see on your screen is
not what others see on their screen!

What do you see when you hit Shift-option k?
Don't just hit the keys, but explain what you see on the screen.

Also, check if you can set the news program to use a standard character
set, like ISO-8859-1 or Unicode UTF-8.


From -8865824686570426986
X-Google-Thread: fc2a5,2768a7ac56ab0348
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news1.optus.net.au!optus!
newsfeeder.syd.optusnet.com.au!news.optusnet.com.au!not-for-mail
Date: Sun, 04 Jul 2010 21:06:28 +1000
From: Krypsis <krypsis@optusnet.com.au>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.10) Gecko/
20100512 Thunderbird/3.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Moderated / Unmoderated ?
References: <rL-0207100517470001@10.0.1.7>
<Xns9DA9935EFA047VeebleFetzer@216.250.188.140>
<jvMUhGDaxyLMFwUZ@g3ohx.demon.co.uk> <rL-0307101416550001@10.0.1.7>
```

```
<su1HxsBhUDMMFwcA@g3ohx.demon.co.uk>
In-Reply-To: <su1HxsBhUDMMFwcA@g3ohx.demon.co.uk>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 41
Message-ID: <4c306b31$0$1030$afc38c87@news.optusnet.com.au>
NNTP-Posting-Host: 122.107.129.33
X-Trace: 1278241585  1030 122.107.129.33
X-Original-Bytes: 2585
Xref: g2news1.google.com rec.radio.amateur.homebrew:3548

On 4/07/2010 5:15 PM, Ian Jackson wrote:
> In message <rL-0307101416550001@10.0.1.7>, • R. L. Measures.
> <rL@somis.org.invalid> writes
>> In article <jvMUhGDaxyLMFwUZ@g3ohx.demon.co.uk>, Ian Jackson
>> <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>>
>>> In message <Xns9DA9935EFA047VeebleFetzer@216.250.188.140>, Bert Hyman
>>> <bert@iphouse.com> writes
>>>> In news:rL-0207100517470001@10.0.1.7 rL@somis.org (â€¢ R. L. Measures.)
>>>> wrote:
>>>>
>>>>> Fellow amateur radio operators: Over the past 14-yrs I have been
>>>>> jackbooted numerous times off of amateur radio discussion groups
>>>>> because I critiqued somewhat less than technically correct statements
>>>>> by a male friend of the moderator/censor.
>>>>
>>>> Really?
>>>>
>>>> Most people have absolutely no problem with moderated groups, which
>>>> they
>>>> find pleasantly free of crap.
>>>>
>>> Over the past 10 years, on several occasions I've tried to post
>>> perfectly innocuous and on-topic comments in
>>> rec.radio.amateur.moderated. So far, not one has appeared. What am I
>>> doing wrong?
>>
>> ** You are not a drinkin' bud of the moderator / censor?
>> You are not a groupie of one of the alpha males in the Newsgroup?
>> You do not periodicly osculate the posterior of the moderator?
>> You do not belong to the same country club as the above?
>>
> I have received advice which leads me to suspect that my news machine
> may, in the case of rec.radio.amateur.moderated, be sending my posts to
> the wrong email address. If so, this would explain the problem.

Maybe, just maybe, your machine is doing you a big favour!!

Krypsis
```

From 7707910833364579598
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 04 Jul 2010 11:48:06 -0500
Date: Sun, 04 Jul 2010 09:48:01 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Message-ID: <rL-0407100948010001@10.0.1.7>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
<slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
<fmmck-58EAE8.14211403072010@5ad64b5e.bb.sky.com> <rL-0307101824520001@10.0.1.7>
<fmmck-F7005A.23283303072010@5ad64b5e.bb.sky.com>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 30
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-ZBUCw+TCEsRjt0Dj904fzSlKUUlSLJl+0uJ9grOoZVx/
DQ9EtzAoBmSKlpAqKVOnNTPt3QDwGrfTRLW!G0g+4WAaWki1iMuevkJBU1gJYls4Q6VAaCLojkr/
FLUv9N35gaHhhAq3vau/8NyIcQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3846

In article <fmmck-F7005A.23283303072010@5ad64b5e.bb.sky.com>, Fred
McKenzie <fmmck@aol.com> wrote:

>In article <rL-0307101824520001@10.0.1.7>,
> rL@somis.org (� R. L. Measures.) wrote:
>
>> >I see a � character
>>
>> � Correct Fred.
>
>Then it IS the font, even though you don't know what I see!
>
>I've had problems with "high ASCII" characters over the years. One that
>caused problems was Microsoft's use of such a character for the 1/2
>fraction, which appears as an Omega symbol (�) on my screen. Until I
>realized what was happening, some Word documents didn't make sense.
>Fortunately, newer versions of Word for Mac fixed the problem.
>
>I think the point others were trying to make, is that your use of the
><95> (�) character looks bad when viewed by many people. It isn't a

>Unix character, it is a Macintosh font character that was in use before
>OS X came on the scene.

** thanks Fred. Windows users also have with the ohms character I use.
>
>Fred
>K4DII

--
Richard L. Measures. AG6K, 805-386-3734, www.somis.org

From 1561666359288807990
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 04 Jul 2010 11:59:24 -0500
Date: Sun, 04 Jul 2010 09:59:18 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Message-ID: <rL-0407100959180001@10.0.1.7>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
<slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
<slrni2u9nf.l8m.nomail@xs8.xs4all.nl> <rL-0307101821570001@10.0.1.7>
<slrni30d5r.clt.nomail@xs8.xs4all.nl>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 56
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-
QE3j8nUVgKUTjDIDvlHVXWeMDIQUr1aXYrUu0mbj6BDyUQXxtLipR5Op+EL+qNFMYhjqxaIB0tW5EyR!
LhyhSTC8J9QXyFjJJjR2o+Gl+Jmf6GSDY/HclTbrjtwxBN8GgPzVRPHtnzdXii8pXQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3847

In article <slrni30d5r.clt.nomail@xs8.xs4all.nl>, Rob <nomail@example.com>
wrote:

><95> R. L. Measures. <rL@somis.org> wrote:
>> In article <slrni2u9nf.l8m.nomail@xs8.xs4all.nl>, Rob <nomail@example.com>
>> wrote:
>>
>>><95> R. L. Measures. <rL@somis.org> wrote:
>>>> In article <slrni2u6an.l8m.nomail@xs8.xs4all.nl>, Rob <nomail@example.com>

```
>>>> wrote:
>>>>
>>>>><95> R. L. Measures. <rL@somis.org> wrote:
>>>>>
>>>>>The character <95> you seem to be fond of is not part of the character
>>>>>set you use for your news postings.
>>>>
>>>> ** I did not send <95>.   I use a UNIX-based operating system.   If you
>>>> were using a UNIX based OS you would see what I actually write Rob. cheers
>>>
>>>I am using Linux.  But I guess that does not count as a UNIX based OS.
>>
>> **  I don't know Rob.  I am using Apple's 10.4 OS.
>
>It doesn't matter anyway.
>The OS has nothing to do with this.
>Your news program is broken, or does not expect the use you make of it.
>
**  this Newsreader app is designed for Apple's OS10.4.

>As your news program does not tell what character set you use, you should
>limit your characters to the 00-7F range.
>
>>>Check what is in your fullname config setting.
>>
>> **  I am not using an OS with such a setting in the system prefs.
>
>Probably it is in your news program.

**  I don't see fullname anything in Newswatcher 2.2 3b2 Peferences.

>Somewhere you have set that your name, "<95> R. L. Measures.", has to
>appear above your news postings.
>When you change that to "R. L. Measures" all trouble is gone.

>
>And don't insert that character in replies either.
>
**  About a third of the denizens in the Newsgroups I frequent have no
trouble seeing the bullet character (option 8) and the bitten apple
character (shift-option k).


cheers Rob

--
Richard L. Measures. AG6K,  805-386-3734, www.somis.org


From -7629920752192869598
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 04 Jul 2010 12:01:42 -0500
Date: Sun, 04 Jul 2010 10:01:36 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Message-ID: <rL-0407101001360001@10.0.1.7>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
<slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
<fmmck-58EAE8.14211403072010@5ad64b5e.bb.sky.com>
<slrni2v0ir.t6i.nomail@xs8.xs4all.nl> <fk2v265a24b74nq88pn8eepdmh474321n7@4ax.com>
<rL-0307101827180001@10.0.1.7> <slrni30d9v.clt.nomail@xs8.xs4all.nl>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 48
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-8R95TF65mDaGUcT0OF27yPXXblukCB3m09vbGg4DnEWtUAydl+/
iF9BXAOvV5mdbb3cmsJw5Wl3AZXZ!
MtFjCNAPzinqI8fjoiVdTZKwhzV7BsuX4AgsPyrtTWGWu46CfZHi+fdrilhwG9QbbA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3551

In article <slrni30d9v.clt.nomail@xs8.xs4all.nl>, Rob <nomail@example.com>
wrote:

><95> R. L. Measures. <rL@somis.org> wrote:
>> In article <fk2v265a24b74nq88pn8eepdmh474321n7@4ax.com>, Paul Keinanen
>> <keinanen@sci.fi> wrote:
>>
>>>On 03 Jul 2010 18:32:59 GMT, Rob <nomail@example.com> wrote:
>>>
>>>>Fred McKenzie <fmmck@aol.com> wrote:
>>>>> In article <rL-0307100444110001@10.0.1.7>,
>>>>> rL@somis.org (<95> R. L. Measures.) wrote:
>>>>>
>>>>>> If you
>>>>>> were using a UNIX based OS you would see what I actually write
>>>>>
>>>>> Richard-
>>>>>
>>>>> Is it the OS, or is it the font?
>>>>>
>>>>> I see a <95> character that may be different from what you see.
What font
>>>>> are you using?
>>>>

>>>>His postings do not specify the character set he is using.
>>>>Probably it is Windows-1252.
>>>
>>>Most likely, if that code was supposed to represent a bullet.
>>
>> <95> The bullet charcter on Apple's 10.4 OS is option-8   <80>
>> Shift-option k is <95>
>
>You apparently don't understand that what you see on your screen is
>not what others see on their screen!
>
>What do you see when you hit Shift-option k?

** a bitten apple

....
>
>Also, check if you can set the news program to use a standard character
>set, like ISO-8859-1 or Unicode UTF-8.

** Newswatcher X 2.2 is designed for Mac OS 10

--
Richard L. Measures. AG6K, 805-386-3734, www.somis.org

From -1952230296305573630
X-Google-Thread: fc2a5,2768a7ac56ab0348
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 04 Jul 2010 12:02:28 -0500
Date: Sun, 04 Jul 2010 10:02:22 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Moderated / Unmoderated ?
Message-ID: <rL-0407101002230001@10.0.1.7>
References: <rL-0207100517470001@10.0.1.7>
<Xns9DA9935EFA047VeebleFetzer@216.250.188.140>
<jvMUhGDaxyLMFwUZ@g3ohx.demon.co.uk> <rL-0307101416550001@10.0.1.7>
<su1HxsBhUDMMFwcA@g3ohx.demon.co.uk>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 41
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-63D+6O9WYyN6UMM62j5uzHboq8DhkGbQmHa05doNuLCwl2XSszdyo8/GA/
RHVy2VssTJncZN/Zl6A9l!
bV7/7nZODzLXyO18Va3hI5qweJtdNQYdQKOWYSeEriXwpEshppH0jSaxwjL6ioaTOA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint

```
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3552

In article <su1HxsBhUDMMFwcA@g3ohx.demon.co.uk>, Ian Jackson
<ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:

>In message <rL-0307101416550001@10.0.1.7>, • R. L. Measures.
><rL@somis.org.invalid> writes
>>In article <jvMUhGDaxyLMFwUZ@g3ohx.demon.co.uk>, Ian Jackson
>><ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>>
>>>In message <Xns9DA9935EFA047VeebleFetzer@216.250.188.140>, Bert Hyman
>>><bert@iphouse.com> writes
>>>>In news:rL-0207100517470001@10.0.1.7 rL@somis.org (â€¢ R. L. Measures.)
>>>>wrote:
>>>>
>>>>> Fellow amateur radio operators:  Over the past 14-yrs I have been
>>>>> jackbooted numerous times off of amateur radio discussion groups
>>>>> because I critiqued somewhat less than technically correct statements
>>>>> by a male friend of the moderator/censor.
>>>>
>>>>Really?
>>>>
>>>>Most people have absolutely no problem with moderated groups, which they
>>>>find pleasantly free of crap.
>>>>
>>>Over the past 10 years, on several occasions I've tried to post
>>>perfectly innocuous and on-topic comments in
>>>rec.radio.amateur.moderated. So far, not one has appeared. What am I
>>>doing wrong?
>>
>>**  You are not a drinkin' bud of the moderator / censor?
>>You are not a groupie of one of the alpha males in the Newsgroup?
>>You do not periodicly osculate the posterior of the moderator?
>>You do not belong to the same country club as the above?
>>
>I have received advice which leads me to suspect that my news machine
>may, in the case of rec.radio.amateur.moderated, be sending my posts to
>the wrong email address. If so, this would explain the problem.

**  okay

--
Richard L. Measures. AG6K,  805-386-3734, www.somis.org


From -1851665333612785862
X-Google-Thread: fc2a5,2768a7ac56ab0348
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
```

```
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 04 Jul 2010 12:06:27 -0500
Date: Sun, 04 Jul 2010 10:06:21 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Moderated / Unmoderated ?
Message-ID: <rL-0407101006210001@10.0.1.7>
References: <rL-0207100517470001@10.0.1.7>
<Xns9DA9935EFA047VeebleFetzer@216.250.188.140>
<jvMUhGDaxyLMFwUZ@g3ohx.demon.co.uk> <rL-0307101416550001@10.0.1.7>
<su1HxsBhUDMMFwcA@g3ohx.demon.co.uk>
<4c306b31$0$1030$afc38c87@news.optusnet.com.au>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 50
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-redMG7YZrgLuT5EPdw6DoMQyYKQxhEfK5KGNSIi7/
mXbntpp0CLIycIow7oqLvg4wIuAnUvRz6uIIIH!B4us8N1uh/
McQF+nU12cKgWE9W9cdx2CEKY77RD8PQFgbt9Rtch6ISwqTM/j+r3T7w==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3553

In article <4c306b31$0$1030$afc38c87@news.optusnet.com.au>, Krypsis
<krypsis@optusnet.com.au> wrote:

>On 4/07/2010 5:15 PM, Ian Jackson wrote:
>> In message <rL-0307101416550001@10.0.1.7>, • R. L. Measures.
>> <rL@somis.org.invalid> writes
>>> In article <jvMUhGDaxyLMFwUZ@g3ohx.demon.co.uk>, Ian Jackson
>>> <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>>>
>>>> In message <Xns9DA9935EFA047VeebleFetzer@216.250.188.140>, Bert Hyman
>>>> <bert@iphouse.com> writes
>>>>> In news:rL-0207100517470001@10.0.1.7 rL@somis.org (â€¢ R. L.
Measures.)
>>>>> wrote:
>>>>>
>>>>>> Fellow amateur radio operators: Over the past 14-yrs I have been
>>>>>> jackbooted numerous times off of amateur radio discussion groups
>>>>>> because I critiqued somewhat less than technically correct statements
>>>>>> by a male friend of the moderator/censor.
>>>>>
>>>>> Really?
>>>>>
>>>>> Most people have absolutely no problem with moderated groups, which
>>>>> they
>>>>> find pleasantly free of crap.
>>>>>
>>>> Over the past 10 years, on several occasions I've tried to post
```

```
>>>> perfectly innocuous and on-topic comments in
>>>> rec.radio.amateur.moderated. So far, not one has appeared. What am I
>>>> doing wrong?
>>>
>>> ** You are not a drinkin' bud of the moderator / censor?
>>> You are not a groupie of one of the alpha males in the Newsgroup?
>>> You do not periodicly osculate the posterior of the moderator?
>>> You do not belong to the same country club as the above?
>>>
>> I have received advice which leads me to suspect that my news machine
>> may, in the case of rec.radio.amateur.moderated, be sending my posts to
>> the wrong email address. If so, this would explain the problem.
>
>Maybe, just maybe, your machine is doing you a big favour!!
>
>Krypsis

**  Indeed K.  My experience has been that moderated Newsgroups are not
infrequently moderated by wannabe channel cops and by guys whose wives
wear the pants.

--
Richard L. Measures. AG6K,  805-386-3734, www.somis.org


From -5297698809417132920
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!news2.euro.net!
newsgate.cistron.nl!newsgate.news.xs4all.nl!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Parasitic Oscillation
References: <rL-3006101023030001@10.0.1.7>
 <83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
 <slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
 <slrni2u9nf.l8m.nomail@xs8.xs4all.nl> <rL-0307101821570001@10.0.1.7>
 <slrni30d5r.clt.nomail@xs8.xs4all.nl> <rL-0407100959180001@10.0.1.7>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrni31g0r.n8m.nomail@xs8.xs4all.nl>
Date: 04 Jul 2010 17:08:43 GMT
Lines: 61
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1278263323 news.xs4all.nl 22937 [::ffff:194.109.21.8]:44982
X-Complaints-To: abuse@xs4all.nl
Xref: g2news2.google.com rec.radio.amateur.homebrew:3851

<95> R. L. Measures. <rL@somis.org> wrote:
```

> In article <slrni30d5r.clt.nomail@xs8.xs4all.nl>, Rob <nomail@example.com>
> wrote:
>
>><95> R. L. Measures. <rL@somis.org> wrote:
>>> In article <slrni2u9nf.l8m.nomail@xs8.xs4all.nl>, Rob <nomail@example.com>
>>> wrote:
>>>
>>>><95> R. L. Measures. <rL@somis.org> wrote:
>>>>> In article <slrni2u6an.l8m.nomail@xs8.xs4all.nl>, Rob <nomail@example.com>
>>>>> wrote:
>>>>>
>>>>>><95> R. L. Measures. <rL@somis.org> wrote:
>>>>>>
>>>>>>The character <95> you seem to be fond of is not part of the character
>>>>>>set you use for your news postings.
>>>>>
>>>>> ** I did not send <95>.   I use a UNIX-based operating system.   If you
>>>>> were using a UNIX based OS you would see what I actually write Rob. cheers
>>>>
>>>>I am using Linux. But I guess that does not count as a UNIX based OS.
>>>
>>> ** I don't know Rob. I am using Apple's 10.4 OS.
>>
>>It doesn't matter anyway.
>>The OS has nothing to do with this.
>>Your news program is broken, or does not expect the use you make of it.
>>
> ** this Newsreader app is designed for Apple's OS10.4.

The problems is not in the interface between your program and the
operating system, but in the interface between the program and usenet.

The program does not operate according to the conventions of usenet.

When it is not using the US-ASCII character set (00-7F), it should tell
the reader what character set it uses. This program doesn't, or you
have not configured it to do so.

>>As your news program does not tell what character set you use, you should
>>limit your characters to the 00-7F range.
>>
>>>>Check what is in your fullname config setting.
>>>
>>> ** I am not using an OS with such a setting in the system prefs.
>>
>>Probably it is in your news program.
>
> ** I don't see fullname anything in Newswatcher 2.2 3b2 Peferences.

The setting is either in the program or in the operating system.
The software does not invent the setting "<95> R. L. Measures." by itself,
not even on an Apple. This information has been entered by you sometime.

```
> **  About a third of the denizens in the Newsgroups I frequent have no
> trouble seeing the bullet character (option 8) and the bitten apple
> character (shift-option k).

Probably your friends all use the same software as you do.
It is not surprising that the same error it has when posting an article
is also present when reading it back.


From 664081655068027384
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!newsfeed.straub-
nv.de!open-news-network.org!news.mixmin.net!feeder.erje.net!newsfeed.xs4all.nl!
newsfeed6.news.xs4all.nl!xs4all!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Parasitic Oscillation
References: <rL-3006101023030001@10.0.1.7>
 <83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
 <slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
 <fmmck-58EAE8.14211403072010@5ad64b5e.bb.sky.com>
 <slrni2v0ir.t6i.nomail@xs8.xs4all.nl>
 <fk2v265a24b74nq88pn8eepdmh474321n7@4ax.com> <rL-0307101827180001@10.0.1.7>
 <slrni30d9v.clt.nomail@xs8.xs4all.nl> <rL-0407101001360001@10.0.1.7>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrni31g4n.n8m.nomail@xs8.xs4all.nl>
Date: 04 Jul 2010 17:10:47 GMT
Lines: 9
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1278263447 news.xs4all.nl 22937 [::ffff:194.109.21.8]:44982
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:3555

<95> R. L. Measures. <rL@somis.org> wrote:
>>What do you see when you hit Shift-option k?
>
> **  a bitten apple

You probably see that only on a Mac.
Windows users most likely see a bullet.
Users of other systems see an unrecongnized character, shown on my
system as the hex value in angle brackets.


From 6925016070461254368
X-Google-Thread: 241b302a50,27cd070beba58b22
X-Google-Attributes: gid241b302a50,public,usenet
```

```
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!tudelft.nl!
txtfeed1.tudelft.nl!zen.net.uk!dedekind.zen.co.uk!aioe.org!not-for-mail
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Date: Sun, 04 Jul 2010 23:56:31 -0400
Organization: Aioe.org NNTP Server
Lines: 28
Message-ID: <fmmck-EF3947.23563104072010@5ad64b5e.bb.sky.com>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
<slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
<slrni2u9nf.l8m.nomail@xs8.xs4all.nl> <rL-0307101821570001@10.0.1.7>
<slrni30d5r.clt.nomail@xs8.xs4all.nl> <rL-0407100959180001@10.0.1.7>
NNTP-Posting-Host: 0byJTAAXvj9P8nvI9VnBwg.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3556
```

In article <rL-0407100959180001@10.0.1.7>,
 rL@somis.org (� R. L. Measures.) wrote:

> I don't see fullname anything in Newswatcher 2.2 3b2 Peferences.

Richard-

There is a newer Newswatcher. I think the latest is version 3.5.3b3.

Rather than using a non-standard bitten apple as part of your name, why not include an X-Face image in the headers? Under Special - Personalities - Headers & Misc. - Signature & Headers - Extra News Headers, paste the following into the box:

```
X-Face: nrf3>{WQ6c&r+7@e)"]0G60`-6ND^)I2mI%>)QGYa=9"=7jhd-g2|b3!>Al0+
        Ccb%xGQshhi|g@QU2$
```

That image is the bitten apple. It will show up in the heading of your messages for those people who have a news reader with X-Face capability.

You can paste that into a text file and name it with the suffix, .x-face. (filename.x-face) If you drop that file onto GraphicConverter, it should open to show a large crude bitten apple. When viewed small, it looks much better. GraphicConverter is capable of creating additional x-face images.

Fred
K4DII

From 2881167955865566911
X-Google-Thread: fc2a5,11c6b66d8a477286,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!v21g2000prd.googlegroups.com!not-for-mail
From: bgfbfjgg ojdhdsd <uijsbhsbchsv@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: BEST HOT GUDIE
Date: Mon, 5 Jul 2010 02:34:51 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <a15e3789-a784-4c9b-915e-763d7266ba57@v21g2000prd.googlegroups.com>
NNTP-Posting-Host: 117.199.240.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1278322491 13303 127.0.0.1 (5 Jul 2010 09:34:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 5 Jul 2010 09:34:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v21g2000prd.googlegroups.com; posting-host=117.199.240.120;
posting-account=VkOAtQoAAACEcOLC5-eHi1eJjZH4zy38
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.6)
Gecko/20100625 Firefox/3.6.6,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3557

for jobs   http://jobsjackpot.blogspot.com/

hot lip kiss1
http://hotimagesandvideos.blogspot.com/2010/04/hot-lip-kiss1.html
hot hug
http://hotimagesandvideos.blogspot.com/2010/04/hot-hug.html
super hot kiss
http://hotimagesandvideos.blogspot.com/2010/04/super-hot-kiss.html
one lip kiss
http://hotimagesandvideos.blogspot.com/2010/04/one-lip-kiss.html
super navel kiss
http://hotimagesandvideos.blogspot.com/2010/04/super-navel-kiss.html
hot train lip kiss
http://hotimagesandvideos.blogspot.com/2010/04/hot-train-lip-kiss.html
hot boobs kiss
http://hotimagesandvideos.blogspot.com/2010/04/hot-boobs-kiss.html

FOR MORE PHOTOS http://hotphotos.co.in/

FOR LOANS

http://insuranceandloansdetails.blogspot.com/

From -4474843837303887229
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 05 Jul 2010 05:42:56 -0500
Date: Mon, 05 Jul 2010 11:42:56 +0100
From: highlandham <highlandham.nospam@rfburns.eu>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.1.10) Gecko/20100624
Mandriva/3.0.5-0.1mdv2010.0 (2010.0) Thunderbird/3.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
<slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
<fmmck-58EAE8.14211403072010@5ad64b5e.bb.sky.com>
<slrni2v0ir.t6i.nomail@xs8.xs4all.nl> <fk2v265a24b74nq88pn8eepdmh474321n7@4ax.com>
<rL-0307101827180001@10.0.1.7> <slrni30d9v.clt.nomail@xs8.xs4all.nl>
<rL-0407101001360001@10.0.1.7> <slrni31g4n.n8m.nomail@xs8.xs4all.nl>
In-Reply-To: <slrni31g4n.n8m.nomail@xs8.xs4all.nl>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <a9ednasId6WtKqzRnZ2dnUVZ7tidnZ2d@pipex.net>
Lines: 14
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.110.216.108
X-Trace: sv3-
UXuYzW8xNSfsARUK6cqJ0stkZHwNK3rxWVjjtdy7nVdnPsHm11NnRsr86sPU8EarM6+kWYVDiecevTB!
c1N/VZ0LgBGZkW8Nm2MoCtxaOs7gtE8iuDG7VGp/jvFqTnBUdEpQasT392lrV2Ezxz4FsFjWGjN8!
BwQo7Hz1pMt57y539db6FJs+IZ4=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3855

On 04. juli 2010 18:10, Rob wrote:
> <95> R. L. Measures.<rL@somis.org> wrote:
>>> What do you see when you hit Shift-option k?
>>
>> ** a bitten apple
>
> You probably see that only on a Mac.
> Windows users most likely see a bullet.
> Users of other systems see an unrecongnized character, shown on my

```
> system as the hex value in angle brackets.
==================================
On my Linux system I see a 'bullet' = fat dot

Frank  GM0CSZ / KN6WH



From -7092645928130345490
X-Google-Thread: 241b302a50,27cd070beba58b22
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 05 Jul 2010 07:17:27 -0500
Date: Mon, 05 Jul 2010 05:17:20 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Message-ID: <rL-0507100517200001@10.0.1.7>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
<slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
<slrni2u9nf.l8m.nomail@xs8.xs4all.nl> <rL-0307101821570001@10.0.1.7>
<slrni30d5r.clt.nomail@xs8.xs4all.nl> <rL-0407100959180001@10.0.1.7>
<slrni31g0r.n8m.nomail@xs8.xs4all.nl>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 74
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-
TBhkGysHqkw01EbyaKXEYfiAT6G00rMDBHg8309P34kIy+Nm3s8AgQsc24wIulPxjh6ZByAuhETpY4o!
hRONQ8fncPSw+yjjFnioO2KBo6T45inuiBrd+Gpcu9SASKa4+TQVgVFStd57HA1oFQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3856

In article <slrni31g0r.n8m.nomail@xs8.xs4all.nl>, Rob <nomail@example.com>
wrote:

><95> R. L. Measures. <rL@somis.org> wrote:
>> In article <slrni30d5r.clt.nomail@xs8.xs4all.nl>, Rob <nomail@example.com>
>> wrote:
>>
>>><95> R. L. Measures. <rL@somis.org> wrote:
>>>> In article <slrni2u9nf.l8m.nomail@xs8.xs4all.nl>, Rob <nomail@example.com>
>>>> wrote:
>>>>
>>>>><95> R. L. Measures. <rL@somis.org> wrote:
>>>>>> In article <slrni2u6an.l8m.nomail@xs8.xs4all.nl>, Rob
```

<nomail@example.com>
>>>>>> wrote:
>>>>>>
>>>>>>><95> R. L. Measures. <rL@somis.org> wrote:
>>>>>>>
>>>>>>>The character <95> you seem to be fond of is not part of the character
>>>>>>>set you use for your news postings.
>>>>>>
>>>>>> ** I did not send <95>.   I use a UNIX-based operating system.   If you
>>>>>> were using a UNIX based OS you would see what I actually write Rob.
cheers
>>>>>
>>>>>I am using Linux. But I guess that does not count as a UNIX based OS.
>>>>
>>>> ** I don't know Rob. I am using Apple's 10.4 OS.
>>>
>>>It doesn't matter anyway.
>>>The OS has nothing to do with this.
>>>Your news program is broken, or does not expect the use you make of it.
>>>
>> ** this Newsreader app is designed for Apple's OS10.4.
>
>The problems is not in the interface between your program and the
>operating system, but in the interface between the program and usenet.
>
>The program does not operate according to the conventions of usenet.
>
>When it is not using the US-ASCII character set (00-7F), it should tell
>the reader what character set it uses. This program doesn't, or you
>have not configured it to do so.
>
>>>As your news program does not tell what character set you use, you should
>>>limit your characters to the 00-7F range.
>>>
>>>>>Check what is in your fullname config setting.
>>>>
>>>> ** I am not using an OS with such a setting in the system prefs.
>>>
>>>Probably it is in your news program.
>>
>> ** I don't see fullname anything in Newswatcher 2.2 3b2 Peferences.
>
>The setting is either in the program or in the operating system.
>The software does not invent the setting "<95> R. L. Measures." by itself,
>not even on an Apple. This information has been entered by you sometime.

** I did not enter <95>, I entered shift-option-k.
>
>> ** About a third of the denizens in the Newsgroups I frequent have no
>> trouble seeing the bullet character (option 8) and the bitten apple
>> character (shift-option k).
>
>Probably your friends all use the same software as you do.

```
**  they do not.

>It is not surprising that the same error it has when posting an article
>is also present when reading it back.

--
Richard L. Measures. AG6K,  805-386-3734, www.somis.org


From 7939967433973730135
X-Google-Thread: 241b302a50,27cd070beba58b22
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 05 Jul 2010 07:18:50 -0500
Date: Mon, 05 Jul 2010 05:18:43 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Message-ID: <rL-0507100518430001@10.0.1.7>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
<slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
<fmmck-58EAE8.14211403072010@5ad64b5e.bb.sky.com>
<slrni2v0ir.t6i.nomail@xs8.xs4all.nl> <fk2v265a24b74nq88pn8eepdmh474321n7@4ax.com>
<rL-0307101827180001@10.0.1.7> <slrni30d9v.clt.nomail@xs8.xs4all.nl>
<rL-0407101001360001@10.0.1.7> <slrni31g4n.n8m.nomail@xs8.xs4all.nl>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 17
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-Qkx4d/WVjMLe6X41R9V7mn/
XUBxr3zb3XQNd4WwLpJQi2+Sxx7qgnRA7creOwG+jWICvavR7RUmKNUI!LOEMRyQw5frgPdEid+38e/
BR5p2RYhnnVB9O5JKj9dotcvyTxNgxbD1zstr9relM4w==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3560

In article <slrni31g4n.n8m.nomail@xs8.xs4all.nl>, Rob <nomail@example.com>
wrote:

><95> R. L. Measures. <rL@somis.org> wrote:
>>>What do you see when you hit Shift-option k?
>>
>> **  a bitten apple
>
>You probably see that only on a Mac.
```

>Windows users most likely see a bullet.
>Users of other systems see an unrecongnized character, shown on my
>system as the hex value in angle brackets.

thanks Rob

--
Richard L. Measures. AG6K, 805-386-3734, www.somis.org

From -4794819258918012868
X-Google-Thread: 241b302a50,27cd070beba58b22
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 05 Jul 2010 07:29:57 -0500
Date: Mon, 05 Jul 2010 05:29:49 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Message-ID: <rL-0507100529490001@10.0.1.7>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
<slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
<slrni2u9nf.l8m.nomail@xs8.xs4all.nl> <rL-0307101821570001@10.0.1.7>
<slrni30d5r.clt.nomail@xs8.xs4all.nl> <rL-0407100959180001@10.0.1.7> <fmmck-
EF3947.23563104072010@5ad64b5e.bb.sky.com>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 45
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-35vEUoE0i9I9r3Z/BMSqH9+1R5ecytQEzxGpyrvF17VwIXEtDnegBBSIK0E6FWbEiNbr/
NBPtCyTq+3!wZ0orCHBo8MxvpkQNB0o5YBQe6yAud1vT0dXpItdSTywJZ8dfM/7/LbnGuvRrJrHhA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3858

In article <fmmck-EF3947.23563104072010@5ad64b5e.bb.sky.com>, Fred
McKenzie <fmmck@aol.com> wrote:

>In article <rL-0407100959180001@10.0.1.7>,
> rL@somis.org (� R. L. Measures.) wrote:
>
>> I don't see fullname anything in Newswatcher 2.2 3b2 Peferences.
>
>Richard-
>
>There is a newer Newswatcher. I think the latest is version 3.5.3b3.

** that's MT Newswatcher, a more complex app that does killfiles. I have
had grief from the MT version in the past, and I don't killfile anyone so
I went back to the plain-vanilla version,
>
>Rather than using a non-standard bitten apple as part of your name, why
>not include an X-Face image in the headers? Under Special -
>Personalities - Headers & Misc. - Signature & Headers - Extra News
>Headers, paste the following into the box:

** there is no such thing in Newswatcher 2.2 Preferences.

```
>
>X-Face: nrf3>{WQ6c&r+7@e)"]0G60`-6ND^)I2mI%>)QGYa=9"=7jhd-g2|b3!>Al0+
>        Ccb%xGQshhi|g@QU2$
>
```

>That image is the bitten apple. It will show up in the heading of your
>messages for those people who have a news reader with X-Face capability.
>
>You can paste that into a text file and name it with the suffix,
>.x-face. (filename.x-face) If you drop that file onto
>GraphicConverter,

** Is that a Mac app?

> it should open to show a large crude bitten apple.
>When viewed small, it looks much better. GraphicConverter is capable of
>creating additional x-face images.
>
>Fred
>K4DII

--
Richard L. Measures. AG6K, 805-386-3734, www.somis.org

```
From 5806718514184191161
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 05 Jul 2010 07:33:41 -0500
Date: Mon, 05 Jul 2010 05:33:34 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Message-ID: <rL-0507100533340001@10.0.1.7>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
<slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
```

<fmmck-58EAE8.14211403072010@5ad64b5e.bb.sky.com>
<slrni2v0ir.t6i.nomail@xs8.xs4all.nl> <fk2v265a24b74nq88pn8eepdmh474321n7@4ax.com>
<rL-0307101827180001@10.0.1.7> <slrni30d9v.clt.nomail@xs8.xs4all.nl>
<rL-0407101001360001@10.0.1.7> <slrni31g4n.n8m.nomail@xs8.xs4all.nl>
<a9ednasId6WtKqzRnZ2dnUVZ7tidnZ2d@pipex.net>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 24
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-
YekxXp7NMvmm4F4p5CKfkn70rPOyWMa2fATpevVAR2KP0G6FM7UiBrxrYc1KuzSjarGoFseN6pvIC9q!
56cdqV1JI5F2x4lLMzFpgTYEfhDql2G+PunxeKK/MpjJXtsue2nuFlGFWuSxgxjr5A==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3859

In article <a9ednasId6WtKqzRnZ2dnUVZ7tidnZ2d@pipex.net>, highlandham
<highlandham.nospam@rfburns.eu> wrote:

>On 04. juli 2010 18:10, Rob wrote:
>> <95> R. L. Measures.<rL@somis.org> wrote:
>>>> What do you see when you hit Shift-option k?
>>>
>>> ** a bitten apple
>>
>> You probably see that only on a Mac.
>> Windows users most likely see a bullet.
>> Users of other systems see an unrecongnized character, shown on my
>> system as the hex value in angle brackets.
>===================================
>On my Linux system I see a 'bullet' = fat dot

** Frank -- the reason I use the bitten apple character is to help me
spot threads that I am posting in. The bullet character works about as
well for this as the bitten apple.
>
>Frank GM0CSZ / KN6WH

--
Richard L. Measures. AG6K, 805-386-3734, www.somis.org

From 8153642455013030059
X-Google-Thread: fc2a5,c77ff0d352b9c009
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!p22g2000pre.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Transmitter From Heaven
Date: Mon, 5 Jul 2010 09:17:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 45
Message-ID: <4c0658d1-6df2-4b38-b9c5-8a7c84f2332d@p22g2000pre.googlegroups.com>
References: <17c39$4c2f675f$4087c807$2426@FOXVALLEY.NET>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1278346670 31931 127.0.0.1 (5 Jul 2010 16:17:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 5 Jul 2010 16:17:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p22g2000pre.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
     AppleWebKit/533.4 (KHTML, like Gecko) Chrome/5.0.375.99 Safari/
533.4,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3563

On Jul 3, 9:37=A0am, Jack Schmidling <j...@schmidling.com> wrote:
> The link below seems like something hams should have done long ago. =A0I
> assume there is some reason not to but thought I would float it here.
>
> The front end is easy and has been done many times for Class D and
> Class E transmitters.
>
> The unique part is the stacking of low voltage modulators to achieve
> high voltage for tubes.
>
> Seems like scaling this down to our power levels would be pretty
> straight forward but I don't happen to know how to do it.
>
> Wa1QIX has a PDM Modulator board/kit that I have on order which solves
> most of the front end details but the series modulator boards are beyond
> my pay grade.
>
> Anyone on this list have any interest or ideas on the subject?
>
> http://www.contelec.com/SSM.html
>
> Jack K9ACT
>
> Astronomy, Beer, Cheese, Fiber, Gems,
> Nature, Radio, Sheep, Sausage, Silver
>
> =A0 =A0 =A0 =A0http://schmidling.com

Seems like mainly you need a way to feed the audio into each of the
amplifiers, and power supplies for each amplifier such that the amp
can "float" up and down at a high enough rate. That is, any

capacitance to ground must be driven by the amplifiers below. The audio input must have good common mode rejection. That's not necessarily terribly difficult, just a requirement. It could be done with transformers, but an interesting variation might be to have an output from each amplifier to drive the amplifier above it in the chain. One other thing: if you are wanting to do it as suggested on the CE page you linked to, you need amplifiers that output nominally 0 to +V, not +/-V, and are happy to deliver highest current at the +V peaks. I assume to start with that you don't need to do the controlled-carrier thing. I suppose to do that you'd want input coupling all the way down to DC.

Cheers,
Tom

From -6984018419864615165
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!
newsfeed1.swip.net!newsfeed1.funet.fi!newsfeeds.funet.fi!feeder1.news.elisa.fi!
uutiset.elisa.fi!7564ea0f!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Message-ID: <lci4361hgm2sfp80t53bsfjuo8c6894968@4ax.com>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
<slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
<slrni2u9nf.l8m.nomail@xs8.xs4all.nl> <rL-0307101821570001@10.0.1.7>
<slrni30d5r.clt.nomail@xs8.xs4all.nl> <rL-0407100959180001@10.0.1.7>
<slrni31g0r.n8m.nomail@xs8.xs4all.nl> <rL-0507100517200001@10.0.1.7>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 15
Date: Tue, 06 Jul 2010 00:17:20 +0300
NNTP-Posting-Host: 85.77.236.168
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1278364635 85.77.236.168 (Tue, 06 Jul 2010 00:17:15
EEST)
NNTP-Posting-Date: Tue, 06 Jul 2010 00:17:15 EEST
Organization: Elisa Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:3861

On Mon, 05 Jul 2010 05:17:20 -0700, rL@somis.org (� R. L. Measures.)
wrote:

>In article <slrni31g0r.n8m.nomail@xs8.xs4all.nl>, Rob <nomail@example.com>
>wrote:

```
>>The setting is either in the program or in the operating system.
>>The software does not invent the setting "<95> R. L. Measures." by itself,
>>not even on an Apple.  This information has been entered by you sometime.
>
>**  I did not enter <95>, I entered shift-option-k.

After following this tread, I have no problems understanding why you
are banned from various moderated newsgroups :-).
```

```
From 4633178470035886183
X-Google-Thread: 241b302a50,27cd070beba58b22
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!193.201.147.68.MISMATCH!feeder.news-service.com!feeder.erje.net!
news.mixmin.net!aioe.org!not-for-mail
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Date: Mon, 05 Jul 2010 21:33:21 -0400
Organization: Aioe.org NNTP Server
Lines: 26
Message-ID: <fmmck-8CBB77.21332005072010@5ad64b5e.bb.sky.com>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
<slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
<slrni2u9nf.l8m.nomail@xs8.xs4all.nl> <rL-0307101821570001@10.0.1.7>
<slrni30d5r.clt.nomail@xs8.xs4all.nl> <rL-0407100959180001@10.0.1.7> <fmmck-
EF3947.23563104072010@5ad64b5e.bb.sky.com> <rL-0507100529490001@10.0.1.7>
NNTP-Posting-Host: eBfBYABZ/S0nWECSXSfEWA.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3862
```

```
In article <rL-0507100529490001@10.0.1.7>,
 rL@somis.org (� R. L. Measures.) wrote:

> >Rather than using a non-standard bitten apple as part of your name, why
> >not include an X-Face image in the headers?  Under Special -
> >Personalities - Headers & Misc. - Signature & Headers - Extra News
> >Headers, paste the following into the box:
>
> **  there is no such thing in Newswatcher 2.2 Preferences.

It isn't in the preferences.  "Special" is an item in the menu bar.
```

I also used NewsWatcher for a long time but eventually updated to MTNW.
So far there are no problems I've noticed. I can't speak for the latest
version used with an older OS.

> >You can paste that into a text file and name it with the suffix,
> >.x-face. (filename.x-face) If you drop that file onto
> >GraphicConverter,
>
> ** Is that a Mac app?

Yes. It is a graphics app that has been around for a long time,
probably as long as NewsWatcher.

Fred

From -5065030418380584726
X-Google-Thread: 241b302a50,2768a7ac56ab0348
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 05 Jul 2010 22:23:50 -0500
Date: Mon, 05 Jul 2010 22:23:51 -0500
From: betwys1 <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.4) Gecko/
20100608 Thunderbird/3.1
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Moderated / Unmoderated ?
References: <rL-0207100517470001@10.0.1.7>
<Xns9DA9935EFA047VeebleFetzer@216.250.188.140> <rL-0207101859460001@10.0.1.7>
In-Reply-To: <rL-0207101859460001@10.0.1.7>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 8bit
Message-ID: <obadncFig6RbPK_RnZ2dnUVZ_r6dnZ2d@giganews.com>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-ajNbHkzSdeRoy43Zp/
vbzD8nnABQJFMkZGC6+uNP9oVYMu2r6VMpVl1jtoSPhdn9P0Ji4rONDfSu2f5!
lcNOeFmJqYLQ49kSvDGenRTLMSr6RclStwlHO7CsCWsVFoFZmPHHZQ5NJ+L+g/JpXcIfs3DIGk8r
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3863

On 7/2/2010 8:59 PM, • R. L. Measures. wrote:
>
>>> Fellow amateur radio operators: Over the past 14-yrs I have been
>>> jackbooted numerous times off of amateur radio discussion groups
>>> because I critiqued somewhat less than technically correct statements
>>> by a male friend of the moderator/censor.
  ..snip.. are you comfortable with the statement: that dipmeters are
> useless because they simultaneously couple to everything within several
> feet? or how anout: resistance wire has reverse RF skin-effect at HF?
>

Dip meters do couple to conductors in the near field.
Current density of resistive wire does increease with depth. Call that
reverse skin effect if you like?

Brian W

```
From 8390797122861248319
X-Google-Thread: fc2a5,2768a7ac56ab0348
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 05 Jul 2010 22:27:01 -0500
Date: Mon, 05 Jul 2010 22:27:02 -0500
From: betwys1 <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.4) Gecko/
20100608 Thunderbird/3.1
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Moderated / Unmoderated ?
References: <rL-0207100517470001@10.0.1.7>
<Xns9DA9935EFA047VeebleFetzer@216.250.188.140>
<jvMUhGDaxyLMFwUZ@g3ohx.demon.co.uk> <rL-0307101416550001@10.0.1.7>
In-Reply-To: <rL-0307101416550001@10.0.1.7>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 8bit
Message-ID: <obadncBig6QYP6_RnZ2dnUVZ_r6dnZ2d@giganews.com>
Lines: 32
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-wk4yAnYdTWs24X/
bVPIdXvSePPN6sgFRTBnugk9L65BPl8OT2gfDeDx7s8RN4GalMwHAn3apKUopJLo!
K5GVelCIB2KRRINlDkPycxtWtx8JaNEYjpV6fiNbj1tBLmM+S4OJdizpZ4HIDEPbjdMc/ZdZIMiV
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

```
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3864

On 7/3/2010 4:16 PM, • R. L. Measures. wrote:
/snip/
>>>
>>>> Fellow amateur radio operators:  Over the past 14-yrs I have been
>>>> jackbooted numerous times off of amateur radio discussion groups
>>>> because I critiqued somewhat less than technically correct statements
>>>> by a male friend of the moderator/censor.
>>>
>>> Really?
>>>
>>> Most people have absolutely no problem with moderated groups, which they
>>> find pleasantly free of crap.
>>>
>> Over the past 10 years, on several occasions I've tried to post
>> perfectly innocuous and on-topic comments in
>> rec.radio.amateur.moderated. So far, not one has appeared. What am I
>> doing wrong?
>
> **  You are not a drinkin' bud of the moderator / censor?
> You are not a groupie of one of the alpha males in the Newsgroup?
> You do not periodicly osculate the posterior of the moderator?
> You do not belong to the same country club as the above?
>
> chers Ian J.
>

Hmmm...you have been jackbooted off several moderated groups, you say?

Why ever would that happen?    :-)

Brian W




From 383652254402139798
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
news.in2p3.fr!in2p3.fr!news.ecp.fr!aioe.org!not-for-mail
From: fmmck@aol.com (Fred McKenzie)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Date: Tue, 06 Jul 2010 00:29:22 -0400
Organization: Aioe.org NNTP Server
Lines: 18
Message-ID: <fmmck-0607100029220001@233.sub-75-250-141.myvzw.com>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
```

<slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
<slrni2u9nf.l8m.nomail@xs8.xs4all.nl> <rL-0307101821570001@10.0.1.7>
<slrni30d5r.clt.nomail@xs8.xs4all.nl> <rL-0407100959180001@10.0.1.7> <fmmck-EF3947.23563104072010@5ad64b5e.bb.sky.com> <rL-0507100529490001@10.0.1.7>
<fmmck-8CBB77.21332005072010@5ad64b5e.bb.sky.com>
NNTP-Posting-Host: L3Gz7WlCFJRc5/ICi9Ds9Q.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: NewsWatcher-X 2.2.3b2
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3865

In article <fmmck-8CBB77.21332005072010@5ad64b5e.bb.sky.com>, Fred
McKenzie <fmmck@aol.com> wrote:

> It isn't in the preferences. "Special" is an item in the menu bar.

It seems that NewsWatcher-X (2.2.3b2) has a place in preferences called
"Extra Header Lines". I tried pasting my x-face there, and will soon see
if it will successfully post the image to this message!

It appears that 2.2.3b2 does not display x-face images like the newer
version does.

By the way, the MTNW has an asterisk by each thread where you have posted
a message. Even when collapsed, you can tell which threads to check for
replies. With your way, you can only recognize your posting when it is
the first one.

Fred

From 2989412078472835376
X-Google-Thread: 109125,31f90cae702339ba,start
X-Google-NewGroupId: yes
X-Google-Thread: 1027f0,31f90cae702339ba,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,31f90cae702339ba,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid5c019a59a0,gidf42d3319d3,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!z34g2000pro.googlegroups.com!not-for-mail
From: xiang chen <chenxaing86@gmail.com>
Newsgroups: rec.games.backgammon,rec.autos.makers.honda,rec.radio.amateur.homebrew
Subject: NBA basketball shoes made in china (http://www.cntrade09.com)
Date: Mon, 5 Jul 2010 23:35:33 -0700 (PDT)
Organization: http://groups.google.com
Lines: 24
Message-ID: <3abc3d6d-3a9d-4dde-b6a2-02122a25ca6b@z34g2000pro.googlegroups.com>

```
NNTP-Posting-Host: 120.40.148.16
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1278398134 31185 127.0.0.1 (6 Jul 2010 06:35:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 6 Jul 2010 06:35:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z34g2000pro.googlegroups.com; posting-host=120.40.148.16;
     posting-account=f6dnuwoAAAA0YjrQYnALrEggFmQj4Pxn
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     CIBA; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe)
Xref: g2news2.google.com rec.games.backgammon:5581 rec.autos.makers.honda:7543
rec.radio.amateur.homebrew:3866

puma shoes made in china (http://www.cntrade09.com )
bape shoes made in china (http://www.cntrade09.com )
Gucci shoes made in china (http://www.cntrade09.com )
Lacoste shoes made in china (http://www.cntrade09.com )
LV shoes made in china (http://www.cntrade09.com )
Timberland shoes made in china (http://www.cntrade09.com )
Evisu shoes made in china (http://www.cntrade09.com )
D&G shoes made in china (http://www.cntrade09.com )
nike running made in china (http://www.cntrade09.com )
prada shoes made in china (http://www.cntrade09.com )
DSQ shoes made in china (http://www.cntrade09.com )
nike football shoes made in china (http://www.cntrade09.com )
nike DUNK shoes made in china (http://www.cntrade09.com )
Rift shoes made in china (http://www.cntrade09.com )
NBA basketball shoes made in china (http://www.cntrade09.com )
adidas running made in china (http://www.cntrade09.com )
adidas NBA shoes made in china (http://www.cntrade09.com )
adidas 35th anniversary shoes made in china (http://
www.cntrade09.com )
adicolor shoes made in china (http://www.cntrade09.com )
adidas football shoes made in china (http://www.cntrade09.com )
GGG hoody made in china (http://www.cntrade09.com )
GGG T-shirt made in china (http://www.cntrade09.com )



From -4431923171069078621
X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!newsfeed.xs4all.nl!newsfeed6.news.xs4all.nl!xs4all!
newsgate.cistron.nl!newsgate.news.xs4all.nl!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Parasitic Oscillation
```

```
References: <rL-3006101023030001@10.0.1.7>
 <83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
 <slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
 <slrni2u9nf.l8m.nomail@xs8.xs4all.nl> <rL-0307101821570001@10.0.1.7>
 <slrni30d5r.clt.nomail@xs8.xs4all.nl> <rL-0407100959180001@10.0.1.7>
 <slrni31g0r.n8m.nomail@xs8.xs4all.nl> <rL-0507100517200001@10.0.1.7>
 <lci4361hgm2sfp80t53bsfjuo8c6894968@4ax.com>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <slrni35nh7.n62.nomail@xs8.xs4all.nl>
Date: 06 Jul 2010 07:41:27 GMT
Lines: 17
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1278402087 news.xs4all.nl 22933 [::ffff:194.109.21.8]:56234
X-Complaints-To: abuse@xs4all.nl
Xref: g2news2.google.com rec.radio.amateur.homebrew:3867

Paul Keinanen <keinanen@sci.fi> wrote:
> On Mon, 05 Jul 2010 05:17:20 -0700, rL@somis.org ( R. L. Measures.)
> wrote:
>
>>In article <slrni31g0r.n8m.nomail@xs8.xs4all.nl>, Rob <nomail@example.com>
>>wrote:
>
>>>The setting is either in the program or in the operating system.
>>>The software does not invent the setting "<95> R. L. Measures." by itself,
>>>not even on an Apple.  This information has been entered by you sometime.
>>
>>**  I did not enter <95>, I entered shift-option-k.
>
> After following this tread, I have no problems understanding why you
> are banned from various moderated newsgroups :-).

Yes indeed!


From 2378893006065299582
X-Google-Thread: fc2a5,2768a7ac56ab0348
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 06 Jul 2010 13:59:58 -0500
Date: Tue, 06 Jul 2010 11:59:49 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Moderated / Unmoderated ?
Message-ID: <rL-0607101159490001@10.0.1.7>
References: <rL-0207100517470001@10.0.1.7>
```

```
<Xns9DA9935EFA047VeebleFetzer@216.250.188.140> <rL-0207101859460001@10.0.1.7>
<obadncFig6RbPK_RnZ2dnUVZ_r6dnZ2d@giganews.com>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 31
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-Ery2yvUzzX46ev4qsLxEF8LfqcudIu/
RTs9JUZtL7WujGJovGL9jA0ge6mtOYNhwdUSnsHZnYCPd79w!O30YMv+5U/
7ACgWhVKMhgBoUoBp5X7+ojdi7QZbTDJaeFMKujG0S3EPXDTdJjbh3Qg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3868

In article <obadncFig6RbPK_RnZ2dnUVZ_r6dnZ2d@giganews.com>,
betwys1@sbcglobal.net wrote:

>On 7/2/2010 8:59 PM, • R. L. Measures. wrote:
>>
>>>> Fellow amateur radio operators:  Over the past 14-yrs I have been
>>>> jackbooted numerous times off of amateur radio discussion groups
>>>> because I critiqued somewhat less than technically correct statements
>>>> by a male friend of the moderator/censor.
>  ..snip.. are you comfortable with the statement: that dipmeters are
>> useless because they simultaneously couple to everything within several
>> feet?  or how anout: resistance wire has reverse RF skin-effect at HF?
>>
>
>
>Dip meters do couple to conductors in the near field.

��  does the near field extend more than 6" from the pickup coil?


>Current density of resistive wire does increease with depth. Call that
>reverse skin effect if you like?

��  That was not what he was asserting.  His position was that the RF-R of
Ni-Cr resistance-wire behaved opposite to
that of Cu wire at HF.  Do you agree Brian?
>
>Brian W

--
Richard L. Measures. AG6K,  805-386-3734, www.somis.org


From -8726290318920468869
X-Google-Thread: fc2a5,f3ab67acc7fb26e0
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,f3ab67acc7fb26e0
X-Google-NewGroupId: yes
```

X-Google-Thread: f7653,f3ab67acc7fb26e0
X-Google-NewGroupId: yes
X-Google-Attributes:
gid241b302a50,gida3e752f117,gidbe63959219,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!l25g2000prn.googlegroups.com!not-for-mail
From: Stuart Longland VK4MSL <me@vk4msl.yi.org>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.digital.misc
Subject: Re: Codec2 - putting your money where your mouth is
Date: Tue, 6 Jul 2010 16:24:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 51
Message-ID: <81327240-2ca1-4aec-9e0f-5a0103f9dd98@l25g2000prn.googlegroups.com>
References: <20100701190840.63646ff0@peterson.fenrir.org.uk>
<slrni2pn78.dq7.nomail@xs8.xs4all.nl>
NNTP-Posting-Host: 150.101.181.164
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1278458663 13223 127.0.0.1 (6 Jul 2010 23:24:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 6 Jul 2010 23:24:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l25g2000prn.googlegroups.com; posting-host=150.101.181.164;
posting-account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-GB; rv:1.9.2.3)
Gecko/20100401 Firefox/3.6.3,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3572
rec.radio.amateur.misc:5060 rec.radio.amateur.digital.misc:150

On Jul 2, 4:22=A0am, Rob <nom...@example.com> wrote:
> Brian Morrison <b...@fenrir.org.uk> wrote:
> > Now, since I've put some money into the pot, I was hoping that anyone
> > else that would like to see proprietary technology in amateur radio
> > replaced by something open that can be inspected, learned from and
> > improved, will visit the following link and see what they are prepared
> > to donate:
>
> There is no way that is going to happen. =A0The Codec2 will not be compat=
ible
> with AMBE, so a commercially manufactured transceiver will not be able
> to talk to an open one. =A0D-Star does not have the capability to negotia=
te a
> CODEC in the protocol, so beside the low level of the coded the higher
> levels will also need to be redone.

Indeed... D-Star radios will always talk AMBE... and thier legality on
amateur bands will always be questionable.

Nothing stops however, someone coming up with an open system ... but then say, modifying the D-Star gateway software to make *that* interoperable with the aforementioned open system.

So yes, D-Star radios will be able to talk to some other digital radio standard, but only through a repeater or translator of some description.

> I am probably not the only one with this opinion, and I am not amazed
> that there are not many that would sponsor a development like this that
> cannot be put to real use.

I think there are lots of possible options for a low-bandwidth and royalty-free CODEC. VoIP on slow links... digital voice on HF... just to name two.

> The only useful development would be the development of a free, open
> codec that is compatible with AMBE. =A0But that would have to be done in
> an environment that does not bow to US Patents etc, or it will have to
> wait until all the patents have expired.

I'm not sure that "following the leader" is the way to go here. Yes, if I wanted a Mickey Mouse-like character to use in a cartoon, I *could* wait for Buena Vista's copyright on him to expire (lawyers already managed to negotiate a 70-year expiry on the copyright). I dare say AMBE will be locked down for at least several years yet.

The question is, do we want to sit around, or do we want to actively seek our own. I personally have little money to contribute (don't have PayPal... so that option is not open to me) but I will probably have a look at it and see if there are other ways to help the cause. However, like the original author of CODEC2, I have limited time too.

From 166640358787995356
X-Google-Thread: 241b302a50,2768a7ac56ab0348
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 06 Jul 2010 19:41:22 -0500
Date: Tue, 06 Jul 2010 17:41:13 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Moderated / Unmoderated ?
Message-ID: <rL-0607101741130001@10.0.1.7>
References: <rL-0207100517470001@10.0.1.7>
<Xns9DA9935EFA047VeebleFetzer@216.250.188.140>
<jvMUhGDaxyLMFwUZ@g3ohx.demon.co.uk> <rL-0307101416550001@10.0.1.7>
<obadncBig6QYP6_RnZ2dnUVZ_r6dnZ2d@giganews.com>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 39

```
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-
GaB8X702tk1ahUbx90BSgLPbOqqz9F+k4H+eV5yBXTHK3vcK+wGhHBudKbq6VV4ZWYuR8Xph4RagK+W!
GyJT3ClMCyoA4wzZwAbMGh5WgYvLt0/Ty975StN+hFsX2NdvWcwod35G7b6YpbOmtg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3573

In article <obadncBig6QYP6_RnZ2dnUVZ_r6dnZ2d@giganews.com>,
betwys1@sbcglobal.net wrote:

>On 7/3/2010 4:16 PM, • R. L. Measures. wrote:
>/snip/
>>>>
>>>>> Fellow amateur radio operators:  Over the past 14-yrs I have been
>>>>> jackbooted numerous times off of amateur radio discussion groups
>>>>> because I critiqued somewhat less than technically correct statements
>>>>> by a male friend of the moderator/censor.
>>>>
>>>> Really?
>>>>
>>>> Most people have absolutely no problem with moderated groups, which they
>>>> find pleasantly free of crap.
>>>>
>>> Over the past 10 years, on several occasions I've tried to post
>>> perfectly innocuous and on-topic comments in
>>> rec.radio.amateur.moderated. So far, not one has appeared. What am I
>>> doing wrong?
>>
>> **  You are not a drinkin' bud of the moderator / censor?
>> You are not a groupie of one of the alpha males in the Newsgroup?
>> You do not periodicly osculate the posterior of the moderator?
>> You do not belong to the same country club as the above?
>>
>> chers Ian J.
>>
>
>Hmmm...you have been jackbooted off several moderated groups, you say?
>
>Why ever would that happen?    :-)

**  Sacred cow barbeques.
>
>Brian W

--
Richard L. Measures. AG6K,  805-386-3734, www.somis.org


From 4693010580722080805
```

X-Google-Thread: fc2a5,27cd070beba58b22
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 06 Jul 2010 19:42:13 -0500
Date: Tue, 06 Jul 2010 17:42:05 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Message-ID: <rL-0607101742050001@10.0.1.7>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
<slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
<slrni2u9nf.l8m.nomail@xs8.xs4all.nl> <rL-0307101821570001@10.0.1.7>
<slrni30d5r.clt.nomail@xs8.xs4all.nl> <rL-0407100959180001@10.0.1.7>
<slrni31g0r.n8m.nomail@xs8.xs4all.nl> <rL-0507100517200001@10.0.1.7>
<lci4361hgm2sfp80t53bsfjuo8c6894968@4ax.com>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-H9k8sEd/SblurWQcqvja38lsRmfnUcNuhQeLNUlvHFOrKwCA06UcXs/
VnHmBWPgvGL4pdcNGPpZoMsU!whfe+WrkEUwiiAyE9GnpQ5NQ4SbY/
0c1mh7f2DjWrbZKWXtPSnCkElh5htIXyCSVuA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3871

In article <lci4361hgm2sfp80t53bsfjuo8c6894968@4ax.com>, Paul Keinanen
<keinanen@sci.fi> wrote:

>On Mon, 05 Jul 2010 05:17:20 -0700, rL@somis.org (� R. L. Measures.)
>wrote:
>
>>In article <slrni31g0r.n8m.nomail@xs8.xs4all.nl>, Rob <nomail@example.com>
>>wrote:
>
>>>The setting is either in the program or in the operating system.
>>>The software does not invent the setting "<95> R. L. Measures." by itself,
>>>not even on an Apple. This information has been entered by you sometime.
>>
>>** I did not enter <95>, I entered shift-option-k.
>
>After following this tread, I have no problems understanding why you
>are banned from various moderated newsgroups :-).

chortle

```
--
Richard L. Measures. AG6K,  805-386-3734, www.somis.org


From 6585510854425101851
X-Google-Thread: 241b302a50,27cd070beba58b22
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.docknet!news.posted.docknet.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 06 Jul 2010 19:44:50 -0500
Date: Tue, 06 Jul 2010 17:44:42 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Parasitic Oscillation
Message-ID: <rL-0607101744420001@10.0.1.7>
References: <rL-3006101023030001@10.0.1.7>
<83cd9$4c2ec1f6$d8feea72$4992@KNOLOGY.NET> <rL-0307100338530001@10.0.1.7>
<slrni2u6an.l8m.nomail@xs8.xs4all.nl> <rL-0307100444110001@10.0.1.7>
<slrni2u9nf.l8m.nomail@xs8.xs4all.nl> <rL-0307101821570001@10.0.1.7>
<slrni30d5r.clt.nomail@xs8.xs4all.nl> <rL-0407100959180001@10.0.1.7> <fmmck-
EF3947.23563104072010@5ad64b5e.bb.sky.com> <rL-0507100529490001@10.0.1.7>
<fmmck-8CBB77.21332005072010@5ad64b5e.bb.sky.com>
User-Agent: NewsWatcher-X 2.2.3b2
Lines: 37
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.127.237.34
X-Trace: sv3-Xicez2gljosCobKQkZn+Y3dXQDf9J+qVMZwH/4dH/ejzHDkU/
x+5t5yLLk4zjUaOFUUWVyWzldqcJ6P!
CQRA8sT3la8vfHELTQVIKXS4MQXDcjzFHKDRBJo1GNsV63RznqXjb0Bj5NZwOUmn3A==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3872

In article <fmmck-8CBB77.21332005072010@5ad64b5e.bb.sky.com>, Fred
McKenzie <fmmck@aol.com> wrote:

>In article <rL-0507100529490001@10.0.1.7>,
> rL@somis.org (� R. L. Measures.) wrote:
>
>> >Rather than using a non-standard bitten apple as part of your name, why
>> >not include an X-Face image in the headers?  Under Special -
>> >Personalities - Headers & Misc. - Signature & Headers - Extra News
>> >Headers, paste the following into the box:
>>
>> **  there is no such thing in Newswatcher 2.2 Preferences.
>
>It isn't in the preferences.  "Special" is an item in the menu bar.
```

```
�  not on my copy

>
>I also used NewsWatcher for a long time but eventually updated to MTNW.
>So far there are no problems I've noticed.  I can't speak for the latest
>version used with an older OS.

�  I'm still using a G4 Mac.
>
>> >You can paste that into a text file and name it with the suffix,
>> >.x-face.  (filename.x-face)  If you drop that file onto
>> >GraphicConverter,
>>
>> **  Is that a Mac app?
>
>Yes.  It is a graphics app that has been around for a long time,
>probably as long as NewsWatcher.
>
>Fred

--
Richard L. Measures. AG6K,  805-386-3734, www.somis.org


From 4891785637579259129
X-Google-Thread: a4a23d5f63,2e82125ba01dade2,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1275890700@panix.com>
Followup-To: poster
Date: 7 Jul 2010 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Aug 2010 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1278482701@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1278482702 11963 166.84.1.2 (7 Jul 2010 06:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 7 Jul 2010 06:05:02 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news2.google.com rec.radio.amateur.antenna:19173 rec.radio.amateur.dx:704
```

rec.radio.amateur.equipment:2321 rec.radio.amateur.homebrew:3873
rec.radio.amateur.misc:5316 rec.radio.amateur.policy:30420 rec.radio.info:1637

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |
rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

```
From 5622638401652484894
X-Google-Thread: 241b302a50,5b62e313df651ab8,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m37g2000prc.googlegroups.com!not-for-
mail
From: BASS <dalermehandi9247@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 2010 HOT PHOTOS
Date: Wed, 7 Jul 2010 02:51:14 -0700 (PDT)
Organization: http://groups.google.com
Lines: 27
Message-ID: <2a8edd10-f639-4e5e-9758-6dafab558aef@m37g2000prc.googlegroups.com>
NNTP-Posting-Host: 117.199.251.182
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1278496275 20037 127.0.0.1 (7 Jul 2010 09:51:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 7 Jul 2010 09:51:15 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m37g2000prc.googlegroups.com; posting-host=117.199.251.182;
     posting-account=ChMvegkAAADX5lcnTEWruk43MP3_cJY6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.6)
     Gecko/20100625 Firefox/3.6.6,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3577
```

FOR HOT ACTRESSES PHOTOS & VIDEOS

http://hotheroinesphoto.blogspot.com

FOR HOT LIPKISS&BIKINIS

http://hotphotos.co.in/

FOR LOOKING JOBS IN MNC COMPANYS

http://jobsjackpot.blogspot.com/

FOR LOANS IN ALL BRANCHES

http://insuranceandloansdetails.blogspot.com/

FOR GETTING INSURANCE IDEAS

http://lowpremiumtermplans.blogspot.com

FOR SAVE WATER&CHILD PROTECTION

```
http://savewaterinworld.blogspot.com

FOR HOT PHOTOS&VIDEOS WITH LATEST UPDATES

http://hotimagesandvideos.blogspot.com


From -8778024091512493076
X-Google-Thread: 109125,fbdc45a60773a39a,start
X-Google-NewGroupId: yes
X-Google-Thread: 1027f0,fbdc45a60773a39a,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,fbdc45a60773a39a,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid5c019a59a0,gidf42d3319d3,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k14g2000pro.googlegroups.com!not-for-
mail
From: xiang chen <chenxaing87@gmail.com>
Newsgroups: rec.games.backgammon,rec.autos.makers.honda,rec.radio.amateur.homebrew
Subject: Discount Wholesale Miumiu Handbag <http://www.cntrade09.com/
Date: Thu, 8 Jul 2010 00:50:12 -0700 (PDT)
Organization: http://groups.google.com
Lines: 27
Message-ID: <96634676-957a-4ef1-93a3-c71a42632ea3@k14g2000pro.googlegroups.com>
NNTP-Posting-Host: 58.22.64.135
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1278575412 5287 127.0.0.1 (8 Jul 2010 07:50:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Jul 2010 07:50:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k14g2000pro.googlegroups.com; posting-host=58.22.64.135;
     posting-account=SFec6AoAAADfZV3p1B-Zl3FMJxiKsxgB
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     CIBA; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe)
Xref: g2news1.google.com rec.games.backgammon:5012 rec.autos.makers.honda:6768
rec.radio.amateur.homebrew:3578

    Discount Wholesale BOSS Handbag
    Discount Wholesale Burberry Handbag <http:// www.cntrade09.com/ >
    Discount Wholesale LV Handbag
    Discount Wholesale Chanel Handbag  <free shipping paypal payment>
    Discount Wholesale  Handbag <http://www.cntrade09.com/ >
    Discount Wholesale Coach Handbag
    Discount Wholesale D&G Handbag <http://www.cntrade09.com/ >
    Discount Wholesale Dooney&Bourke Handbag
    Discount Wholesale ED Hardy Handbag <http://www.cntrade09.com/
    Discount Wholesale Fendi Handbag
    Discount Wholesale Gucci Handbag <http://www.cntrade09.com/>
    Discount Wholesale Hermes Handbag
    Discount Wholesale Jimmy Choo Handbag <free shipping paypal
payment>
    Discount Wholesale Juciy Handbag
    Discount Wholesale LV Handbag <http://www.cntrade09.com/>
    Discount Wholesale Miumiu Handbag <http://www.cntrade09.com/



    Discount Wholesale Prada Handbag
    Discount Wholesale Tous Handbag <http://www.cntrade09.com/ >
    Discount Wholesale Versace Handbags <free shipping paypal
payment>


From -3851681366189328547
X-Google-Thread: fc2a5,98856c19dc965135,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i16g2000prn.googlegroups.com!not-for-
mail
From: BASS <dalermehandi9247@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT ACTRESS PHOTOS
Date: Thu, 8 Jul 2010 01:23:33 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <f2d77129-b0a2-45d1-982a-0904489fce15@i16g2000prn.googlegroups.com>
NNTP-Posting-Host: 117.199.244.103
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1278577413 22778 127.0.0.1 (8 Jul 2010 08:23:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Jul 2010 08:23:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i16g2000prn.googlegroups.com; posting-host=117.199.244.103;
     posting-account=ChMvegkAAADX5lcnTEWruk43MP3_cJY6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.6)
     Gecko/20100625 Firefox/3.6.6,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3579

HOT HEROINES PHOTOS

http://hotheroinesphoto.blogspot.com/
SEXY SNEHA

http://hotheroinesphoto.blogspot.com/2010/06/sneha-hot.html
KOUSHA HOT EXPOSING
```

http://hotheroinesphoto.blogspot.com/2010/06/sexy-kousha.html
PRIYAMANI IN HOT BIKINI

http://hotheroinesphoto.blogspot.com/2010/06/priyamani-hot.html
MADHUSHALINI IN HOT DRESS

http://hotheroinesphoto.blogspot.com/2010/06/blog-post_2972.html
HOTTEST LIPKISS

http://hotheroinesphoto.blogspot.com/2010/06/lipkiss-2.html
NAMITHA IN BATH

http://hotheroinesphoto.blogspot.com/2010/06/nayagarala-namitha.html
http://hotheroinesphoto.blogspot.com/2010/06/nayagarala-namitha.html

```
From 328893255907535086
X-Google-Thread: fc2a5,849c2c9df68d5655,start
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,849c2c9df68d5655,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z30g2000prg.googlegroups.com!not-for-
mail
From: "www.sneaker-shop08.com" <yijeans10@163.com>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: Concord Watch cheapsale <free shipping paypal payment> (http://
Date: Thu, 8 Jul 2010 02:17:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 59
Message-ID: <7098e83a-bfe6-4ce4-94a3-e1f2f874990c@z30g2000prg.googlegroups.com>
NNTP-Posting-Host: 58.22.69.86
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1278580633 19044 127.0.0.1 (8 Jul 2010 09:17:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Jul 2010 09:17:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z30g2000prg.googlegroups.com; posting-host=58.22.69.86;
     posting-account=JCIcrgoAAAA5W4xtg-sO1QwSbFFgSKjo
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3580
rec.puzzles.crosswords:7939
```

Breit Ling Watch cheapsale <free shipping paypal payment> (http://
www.brandtrade99.com/)
Burberry Watch cheapsale <free shipping paypal payment> (http://
www.brandtrade99.com/)
Cartier Watch cheapsale <free shipping paypal payment> (http://
www.brandtrade99.com/)

Chopard Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
d&g Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
Givenchy Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
jacob&co Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
Kappa Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
Prada Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
Tissot Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
Titoni Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
U-BOAT Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
Zenith Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
a.lange&sohne Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
Audemars Piguet Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
baume&mercier Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
Blancpain Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
Breguet Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
BRM Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
Bvlgari Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
Chanel Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
Concord Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
Corum Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
Dewitt Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
Ferrari Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
Franck Muller Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
Girard Perregaux Watch <free shipping paypal payment> (http://www.brandtrade99.com/)
Glashutte Watch <free shipping paypal payment> (http://www.brandtrade99.com/)
Graham Watch cheapsale <free shipping paypal payment> (http://www.brandtrade99.com/)
GUCCI Watch cheapsale <free shipping paypal payment> (http://

```
From -7977202147601868126
X-Google-Thread: fc2a5,37f5989ac18e2470,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k39g2000yqb.googlegroups.com!not-for-
mail
From: fitz <zeusrdx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Are all the fundamental forces nothing but simple PHASE
     relationships?
Date: Thu, 8 Jul 2010 14:50:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
Message-ID: <c95e5a04-9ec5-4ff8-9d30-c21bfe44afbb@k39g2000yqb.googlegroups.com>
NNTP-Posting-Host: 204.116.183.125
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1278625828 29558 127.0.0.1 (8 Jul 2010 21:50:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Jul 2010 21:50:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k39g2000yqb.googlegroups.com; posting-host=204.116.183.125;
     posting-account=A451vgoAAAByc Jv5ugpkfX8QG96-xuRZ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0;
     Trident/4.0; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
     3.0.30618; yie8),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3581
```

Are all the fundamental forces nothing but simple PHASE relationships?

"in phase attract"

Type those three words - above - into Google (Include quote marks) to learn not only the basics of electricity but how all the fundamental forces work.

Or click the following link that will give you the same page in Google. http://www.google.com/search?hl=en&source=hp&q=%22in+phase+attract%22&btnG=Google+Search

Not only do all electric motors obey these phase laws but this entire universe does as well.

(Click link below.)
http://www.amperefitz.com/in.phase.attract.htm

```
From -2520286622653397434
X-Google-Thread: fc2a5,d47d282b2c4cc4ce,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!goblin3!goblin.stu.neva.ru!
news-2.dfn.de!news.dfn.de!news.stw-bonn.de!news.uni-stuttgart.de!news.belwue.de!
news1.tnib.de!feed.news.tnib.de!news.tnib.de!news.iks-jena.de!
newsfeed1.eu.ignite.net!news1.as3257.net!newsfeed00.sul.t-online.de!t-online.de!
border2.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 08 Jul 2010 23:10:55 -0500
From: Charles Frizell <Charles.Frizell.67c5748@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Charles M0DED (ex Z21GQ ex ZS6BYB) saying "Hello"
Date: Thu, 8 Jul 2010 23:09:44 +0000
Message-ID: <Charles.Frizell.67c5748@radiobanter.com>
Organization: RadioBanter.com
Lines: 36
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
Ilvp6Up6gDaaNX8Od7nOBL41+1yP6ZYxO414u+GkwEEZoRH41S1CvNYkl5IZFBDX7HYelobzIhSLcCt!
G+I1BEn0KDTQj5X4Ts6uqjRs6vdxJX7XVgJgmkNrd1M9DsHschFZfpTuwSBikCQm5m43S+IFyzwr!
psYF0qUUNfob2rr0
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 14
X-Original-Bytes: 2377
Xref: g2news1.google.com rec.radio.amateur.homebrew:3582
```

Greetings everyone!

I have been living in UK the last 8 years, since having to leave my home country Zimbabwe (the Z21GQ c/s). My primary job most of my life was the design and construction of power electronics - things like 25kA rectifiers and railway traction systems, though I started out as an RF engineer with the Rhodesian PTC in 1963 and served in the Signals Workshop during the Rhodesian war (part-time). Now I teach people all over thr world how to maintain and repair linear accelerators from 2 to 15MeV.

I am very interested in homebrew (back home I had a factory making DIY solar lighting kits and getting pcb's done was no problem) but here in the UK I am lost for RF components, pcb makers and so on.

What I am particulary interested right now is whether anyone has a good circuit for an AD9910 DDS that I can control from my laptop? Of course, where to get a pcb would be a wonderful advantage. I've designed

hundreds of boards in the past, but not since comning to the UK.
Initially I want to use the DDS to check out HF front end filer
characteristics for 14, 18, 10MHz

I have 2 Telefunkeb E1500 RX's as well as an ICOM IC-745. Longer term I
would like to install H-Mode mixers in both, and narrow band filters in
the E1500 (ham bands)

Any emails and ideas would be greatly appreciated

Charles
M0DED

--
Charles Frizell

```
From 6229300713801279669
X-Google-Thread: fc2a5,8dd39662fad44354,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z15g2000prn.googlegroups.com!not-for-
mail
From: BASS <dalermehandi9247@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: hot photos new
Date: Sat, 10 Jul 2010 02:04:31 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <490d37b8-e334-4d7b-8402-60f2e42d0bf7@z15g2000prn.googlegroups.com>
NNTP-Posting-Host: 117.199.249.65
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1278752671 10790 127.0.0.1 (10 Jul 2010 09:04:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 10 Jul 2010 09:04:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z15g2000prn.googlegroups.com; posting-host=117.199.249.65;
     posting-account=ChMvegkAAADX5lcnTEWruk43MP3_cJY6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.6)
     Gecko/20100625 Firefox/3.6.6,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3583
```

FOR HOT HEROINES PHOTOS

http://hotheroinesphoto.blogspot.com

AISHWARIYARAI HOT EXPOSING PHOTO

http://hotheroinesphoto.blogspot.com/2010/06/aishwariyarai-hot-photo.html

  ANKITHA IN A TUB BATH

http://hotheroinesphoto.blogspot.com/2010/06/ankitha-in-tub-bath.html

  NAMITHA SEXY PHOTO IN BEACH

http://hotheroinesphoto.blogspot.com/2010/06/namitha-in-beach.html

  CHARMI IN A SEXY FEEL

http://hotheroinesphoto.blogspot.com/2010/06/sexy-charmi.html

  CHENNAI HOT GIRLS WITH SWIM WEAR

http://hotheroinesphoto.blogspot.com/2010/06/chennai-hot-girls.html

  KAJAL AGARWALHOT PHOTO

http://hotheroinesphoto.blogspot.com/2010/06/kajal-agarwal-hot.html

  KATRINA KAIF IN A HOT SAREE

http://hotheroinesphoto.blogspot.com/2010/06/hot-katrina.html

```
From 5602945755877804676
X-Google-Thread: fc2a5,37f5989ac18e2470
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 10 Jul 2010 17:16:00 -0500
Date: Sat, 10 Jul 2010 17:16:16 -0500
From: betwys1 <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.4) Gecko/
20100608 Thunderbird/3.1
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Are all the fundamental forces nothing but simple PHASE
relationships?
References: <c95e5a04-9ec5-4ff8-9d30-c21bfe44afbb@k39g2000yqb.googlegroups.com>
In-Reply-To: <c95e5a04-9ec5-4ff8-9d30-c21bfe44afbb@k39g2000yqb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <VrWdnUqFpom9bKXRnZ2dnUVZ_s6dnZ2d@giganews.com>
Lines: 10
X-Usenet-Provider: http://www.giganews.com
```

X-Trace:
sv3-95PiTwa0qYpcGghn5lDzTi5EzrqaAJ2FUYEnrFOM9JdwTnVayZdzR7QqqJFzqY2mshUIqU88FAF0z7
P!nqoQkvK6NVKBXz/XE2goy/bpZOFtRtB6hl5vbNI5DCpzOpvGCToz+Nu9RHBqg9gd2Ng8vKJbf3Oa
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3584

On 7/8/2010 4:50 PM, fitz wrote:
> Are all the fundamental forces nothing but simple PHASE relationships?
>

Simple?
Probably not. Else the legions of physicists who long to explain and unify the fundamental forces, would have succeeded after 80 years or so of concentrated effort.

Brian W

From 4773566867521507742
X-Google-Thread: fc2a5,d47d282b2c4cc4ce
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1.cambriumusenet.nl!feed.tweaknews.nl!193.201.147.68.MISMATCH!feeder.news-service.com!feeder.news-service.com!cyclone03.ams2.highwinds-media.com!news.highwinds-media.com!npeersf01.ams.highwinds-media.com!newsfe15.ams2.POSTED!7564ea0f!not-for-mail
Organization: virginmedia.com
Message-ID: <M0Pcf3CJFaOMFw4M@ntlworld.com>
From: Ian Wade G3NRW <g3nrw@yahoo.co.uk>
Sender: g3nrw@yahoo.co.uk
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Charles M0DED (ex Z21GQ ex ZS6BYB) saying "Hello"
References: <Charles.Frizell.67c5748@radiobanter.com>
Lines: 17
Organization: None
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.02-U (<Lk0q1Sj1GvJmS5jLpLcX4s4JBW>)
NNTP-Posting-Date: Sun, 11 Jul 2010 10:47:46 UTC
Date: Sun, 11 Jul 2010 11:47:37 +0100
Xref: g2news1.google.com rec.radio.amateur.homebrew:3585

Charles,

I emailed a reply to you, but it bounced. So here is what I said:

I can't answer your questions, but I think it would be a good idea for you to join the RSGB Technical reflector and ask there:

http://groups.yahoo.com/group/rsgbtech/

You don't have to be an RSGB member to join the reflector, and I know
that the people there are very helpful.

Good luck.

--
73
Ian, G3NRW

From -1529061159009303971
X-Google-Thread: fc2a5,4f56ac9faa624c66,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: direct conversion receiver Question
Date: Sun, 11 Jul 2010 10:50:58 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3664
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3664
X-Antivirus: avast! (VPS 100711-0, 07/11/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 17
X-Trace: a28284c39e867bd49c87201674
Xref: g2news1.google.com rec.radio.amateur.homebrew:3586

In a direct conversion receiver, does the osc. run at
exactly the same frequency as the received signal?

Assuming the answer is yes;
Is it possible to have a high Q LC front end at the output from the
antenna,
split the signal and feed one output to the rf input of the mixer and feed
the other splitter output to an amplifier and use the amplified signal to
drive the osc input of the mixer?

Simple block diagram of proposed idea;
http://i395.photobucket.com/albums/pp37/Qmavam/directconversion.jpg

--
MikeK

From -6878187997229123701
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 11 Jul 2010 12:00:10 -0500
Date: Sun, 11 Jul 2010 17:00:10 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: direct conversion receiver Question
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
In-Reply-To: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <SM2dnXpsdagGZaTRnZ2dnUVZ_sydnZ2d@bright.net>
Lines: 21
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-H6lMOgO67/h2MN8gTbvoVVynCtNYGrS9A2fK0oq9H9DviFEA5d1+
+91h0BI4fcliJbvJ2CFBfeawifF!ylwh8KoxI7rI6/QDnJU/LDEnAzM2R+3KgXVAgHn0SYXJLq/
lNrTLFTEoxCu+2Ye2G76x1b6BA4UN!Zsw5ZtjGcA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3587

amdx wrote:
> In a direct conversion receiver, does the osc. run at
> exactly the same frequency as the received signal?
>
> Assuming the answer is yes;
> Is it possible to have a high Q LC front end at the output from the
> antenna,
> split the signal and feed one output to the rf input of the mixer and feed
> the other splitter output to an amplifier and use the amplified signal to
> drive the osc input of the mixer?
>
> Simple block diagram of proposed idea;
> http://i395.photobucket.com/albums/pp37/Qmavam/directconversion.jpg
>

I don't think so. You would be using the exact same frequencies as both
the RF and LO signals, resulting in an I.F. of (difference) zero
(DC--You can't hear DC.)
) or (sum) 2XRF (Can't hear that either).

N0EDV

```
From 6132677683639325589
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!195.71.90.67.MISMATCH!news.unit0.net!eternal-
september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: direct conversion receiver Question
Date: Sun, 11 Jul 2010 13:45:08 -0400
Organization: A noiseless patient Spider
Lines: 20
Message-ID: <i1cvv4$knc$1@news.eternal-september.org>
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sun, 11 Jul 2010 17:45:08 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="2nzVWXn27sXw00zyyvp3Qg";
     logging-data="21228"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18+MgNhSFxAWL2RDxiNfhE81BXu4I4pFdY="
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.1.9) Gecko/20100423
Thunderbird/3.0.4
In-Reply-To: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
Cancel-Lock: sha1:VbuDVRogT+DXoyBsxcv7BN8zRk8=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3588
```

On 07/11/2010 11:50 AM, amdx wrote:
>   In a direct conversion receiver, does the osc. run at
> exactly the same frequency as the received signal?
>
> Assuming the answer is yes;
> Is it possible to have a high Q LC front end at the output from the
> antenna,
> split the signal and feed one output to the rf input of the mixer and feed
> the other splitter output to an amplifier and use the amplified signal to
> drive the osc input of the mixer?
>
> Simple block diagram of proposed idea;
> http://i395.photobucket.com/albums/pp37/Qmavam/directconversion.jpg
>

NO, for the same reason you can't fake the BFO at the final detector the
same way. You need to (re)inject a carrier to receive a CW or SSB

signal, and the receiver must supply this carrier. A direct conversion receiver is just a tunable IF, detector, and BFO without a superhet front end. There ARE synchronous AM detectors that do what you propose, but this works because the incoming carrier is already there.

```
From -3475269610355249257
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 11 Jul 2010 12:51:47 -0500
Date: Sun, 11 Jul 2010 12:52:05 -0500
From: betwys1 <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.4) Gecko/
20100608 Thunderbird/3.1
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: direct conversion receiver Question
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
In-Reply-To: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <yqWdnVk1YvUpmafRnZ2dnUVZ_t-dnZ2d@giganews.com>
Lines: 24
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X-Trace: sv3-wGi1VQ2Elnx3Jy9FfFTuJi+8xOri2O6JWJdKT6+r7y//xvRlmU/
VpzIhXOHd1FsvdZQiBGI2g59DeTy!
jdczQejg2FTV69Ryz6Vq5a5FSyC32FVlJOtIEDCmtZYygB8fwiLxlDAOPTITKZNZl0r2LaUf0w1e
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3589
```

On 7/11/2010 10:50 AM, amdx wrote:

```
>   In a direct conversion receiver, does the osc. run at
> exactly the same frequency as the received signal?
>
> Assuming the answer is yes;
> Is it possible to have a high Q  LC front end  at the output from the
> antenna,
> split the signal and feed one output to the rf input of the mixer and feed
> the other splitter output to an amplifier and use the amplified signal to
> drive the osc input of the mixer?
>
> Simple block diagram of proposed idea;
```

> http://i395.photobucket.com/albums/pp37/Qmavam/directconversion.jpg
>

Probably not.
You would like to boost the input with a broadband amp, then select the
signal of interest with a local oscillator.

Using the signal itself to select the same signal from dozens of others
would need processing a carrier to provide an LO.
Interesting!

Brian W

From -8369245937864169918
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!feeder1.news.elisa.fi!uutiset.elisa.fi!7564ea0f!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: direct conversion receiver Question
Message-ID: <9m3k36pk5eb0c22b66iqq5c1ldfahrb32l@4ax.com>
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 14
Date: Sun, 11 Jul 2010 21:35:27 +0300
NNTP-Posting-Host: 85.76.102.248
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1278873325 85.76.102.248 (Sun, 11 Jul 2010 21:35:25 EEST)
NNTP-Posting-Date: Sun, 11 Jul 2010 21:35:25 EEST
Organization: Elisa Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:3590

On Sun, 11 Jul 2010 10:50:58 -0500, "amdx" <amdx@knology.net> wrote:

> In a direct conversion receiver, does the osc. run at
>exactly the same frequency as the received signal?
>
>Assuming the answer is yes;
>Is it possible to have a high Q LC front end at the output from the
>antenna,
>split the signal and feed one output to the rf input of the mixer and feed
>the other splitter output to an amplifier and use the amplified signal to
>drive the osc input of the mixer?

Are you trying to reinvent the regenerative receiver ?

```
From -3663596353437596473
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
kanaga.switch.ch!switch.ch!news1.as3257.net!draco.tiscalinet.it!news-
f2.tiscali.it!not-for-mail
Date: Sun, 11 Jul 2010 22:00:38 +0200
From: "i3hev, mario" <marioheld@tiscali.it>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, it
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: direct conversion receiver Question
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
In-Reply-To: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 32
Message-ID: <4c3a22e7$0$30900$5fc30a8@news.tiscali.it>
Organization: Tiscali SpA
NNTP-Posting-Host: 94.36.15.113
X-Trace: 1278878439 news.tiscali.it 30900 94.36.15.113:3403
X-Complaints-To: abuse@tiscali.it
Xref: g2news1.google.com rec.radio.amateur.homebrew:3591
```

amdx wrote:

> ...Is it possible to have a high Q LC front end at the output from the
> antenna,
> split the signal and feed one output to the rf input of the mixer and feed
> the other splitter output to an amplifier and use the amplified signal to
> drive the osc input of the mixer? ...

the idea is not new (a few decades ago it was called "carrier regeneration", and has been extensively used in synchronous demodulation of AM and DSB, VSB and SSB with partially suppressed carrier), but you need at least a residual carrier.

In the case of SSB, although carrier suppression is far from perfect, filtering and amplifying the residual carrier up to an usable level is not impossible, but definitely far from easy... :)

Speaking about CW, recovering the carrier is very easy (a simple PLL with a very slow time constant would do the trick), but the next step should be displacing said recovered carrier of a useful amount (say, 600-800 Hz) to give a beat note, and this is not so easily done.

Regards,
--
73 es 51 de i3hev, op. mario

Non � Radioamatore, se non gli fuma il saldatore!
- Campagna 2006 "Il Radioamatore non � uno che ascolta la radio"

it.hobby.radioamatori.moderato
http://digilander.libero.it/hamweb
http://digilander.libero.it/esperantovenezia

From 4703153381308955924
X-Google-Thread: fc2a5,ba23089760b98c81
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 11 Jul 2010 17:51:43 -0500
Date: Sun, 11 Jul 2010 17:52:02 -0500
From: betwys1 <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.4) Gecko/
20100608 Thunderbird/3.1
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking For MC145106 in UK
References: <buGdnYXoh_D_CNLWnZ2dnUVZ8ridnZ2d@brightview.co.uk>
<nJSdnRFJO8B11s3WnZ2dnUVZ8rWdnZ2d@pipex.net>
<0aCdnQYDD46qNs3WnZ2dnUVZ8nGdnZ2d@brightview.co.uk> <JM-
dnbtcvpX2UPzWnZ2dnUVZ8uadnZ2d@brightview.co.uk> <hjtngf$jkc$1@news.eternal-
september.org>
In-Reply-To: <hjtngf$jkc$1@news.eternal-september.org>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <YsOdnaQ4bahi16fRnZ2dnUVZ_uidnZ2d@giganews.com>
Lines: 30
X-Usenet-Provider: http://www.giganews.com
X-Trace:
sv3-6h7QOTlRiXQ5JWBXR3aEbj6Ec5pjNnyCBBt2kc+KD4EpQ8PYNKRgYGAYU7ALQgri4Cl9BQDuzFGkix
U!a9AorwG8VXTZVlmXtSAE+VjYxtcf4sVnNpLuV7SL+axoPt15Fd1ldki2VFbKvnT0AkuzNR5Gg0BY
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3592

On 1/28/2010 10:16 PM, Charlie Carothers wrote:
> John W wrote:

>> Hi,
>>
>> A small update. I bought the MC145106, gave it to my friend and he is
>> chuffed to bits.
>>
>> Thanks again,
>>
>> 73
>> JOHN
>> M5AML
>> www.wells10000.plus.com/m5aml
>>
>>
> OK, I just gotta ask. (I sort of collect English idiomatic expressions.)
> I looked up chuffed on Dictionary.com and it says:
> "Adjective British Informal: annoyed; displeased; disgruntled." It is
> also listed as describing the sound of a train, etc.
> My obvious question is, if he wanted one, and you bought and gave him
> one, why is he "chuffed to bits"?
> Or is there some more recent/other definition I don't know about?
> EMWTK/IMWTK :) (Another English/English translation issue I think of
> enquiring vs. inquiring.)
> Thanks,
> Charlie Carothers

Chuffed = pleased, gruntled, thrilled.

Brian W

From 8559989690221273676
X-Google-Thread: fc2a5,3a5efff3c7f3fdf9,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!x24g2000pro.googlegroups.com!not-for-mail
From: free money <maaindia14@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Simple Hack To Get $2000 To Your PayPal Account
Date: Sun, 11 Jul 2010 18:52:19 -0700 (PDT)
Organization: http://groups.google.com
Lines: 7
Message-ID: <fbc604bd-d483-43c3-8fec-18a32a484753@x24g2000pro.googlegroups.com>
NNTP-Posting-Host: 117.195.165.102
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1278899539 9774 127.0.0.1 (12 Jul 2010 01:52:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 12 Jul 2010 01:52:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x24g2000pro.googlegroups.com; posting-host=117.195.165.102;
     posting-account=kKG67AoAAADF1u0ty7pnpV-bHwcwrSdD

User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.19)
     Gecko/2010031422 Firefox/3.0.19,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3593

Simple Hack To Get $2000 To Your PayPal Account.
At http://ukcollegegirls.co.cc

Due to high security risks, i have hidden the PayPal Form link in an
image. in that website On search box Top Side, click on image
and enter your PayPal id And Your name. please don,t tell to any
One.

From -3359801046537052276
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 11 Jul 2010 21:25:12 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: direct conversion receiver Question
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
<SM2dnXpsdagGZaTRnZ2dnUVZ_sydnZ2d@bright.net>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Sun, 11 Jul 2010 19:25:06 -0700
Message-ID: <21bqg7-0kd.ln1@radagast.org>
Lines: 66
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.159.209.148
X-Trace: sv3-bkCPUJDCh3YHCxxtfcW7GRSiAMcTBeohf/
JShFp+QQjvfhf5azdEyvQ2n18l3V4xQTXToMd2uB7Pd3f!
5E3E2KNiZovu4VWWkExsiuTHTSn+AWq8ndBnfNajRu6w222BD5uC6VXmYzwDYQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3594

In article <SM2dnXpsdagGZaTRnZ2dnUVZ_sydnZ2d@bright.net>,
Scott <acepilotREMOVE@bloomer.net> wrote:

> In a direct conversion receiver, does the osc. run at
> exactly the same frequency as the received signal?
>
> Assuming the answer is yes;
> Is it possible to have a high Q LC front end at the output from the

> antenna,
> split the signal and feed one output to the rf input of the mixer and feed
> the other splitter output to an amplifier and use the amplified signal to
> drive the osc input of the mixer?

Well, what you'd be getting here (I think) is a high-tech version of a crystal radio.

Remember that a mixer (diode-ring or Gilbert cell or etc.) is essentially a multiplier... it multiplies the "RF" signal with the "LO" signal, thus creating additional signals at the sum and difference frequencies. In a simple DC receiver for sideband, you tune the LO to the nominal carrier frequency of the incoming signal, and the "difference" frequencies which come out of the mixer are thus the audio sidebands, shifted down to baseband.

If you multiply the signal by itself (i.e. splitting it and putting it into two ports of a mixer) you'll create base-band "difference" components which match the original sidebands (if there's some carrier present in the signal) plus *all* of the sum-and-differences of the original audio components. In short, you'll get the audio, plus a lot of harmonic and intermodulation distortion.

That's just what you get when you feed AM into a simple diode detector, with no LO (i.e. a crystal radio). The square-law response of the diode has the effect of multiplying every RF component in the incoming signal with every other, thus recreating the original audio plus lots of HD and IMD.

If the incoming signal is fully-suppressed-carrier SSB, you won't have any carrier present to act as a frequency reference or to result in the recovery of the original signal content via multiplication. All you'll have is every sideband in the signal, multiplied by every other sideband... an amazing mishmash of intermodulation, without the original baseband signal.

If you're just interested in AM signals, then you could filter the incoming signal, split it, amplify one half, and run this through a *very* narrow-band filter (think "oscillator and PLL") and use this as the LO input to the mixer. In effect, what you'd be doing is creating an LO signal which is a copy of the original signal's carrier, with the sidebands stripped away by the ultra-narrow filter / PLL. This is a pretty basic way of doing AM reception.

This won't work with SSB, though, as there's no carrier to lock onto.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From 6098380565359517534
X-Google-Thread: fc2a5,ba23089760b98c81
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder2.cambriumusenet.nl!feeder3.cambriumusenet.nl!feed.tweaknews.nl!193.201.147.71.MISMATCH!xlned.com!feeder3.xlned.com!feeder.news-service.com!85.214.198.2.MISMATCH!eternal-september.org!.POSTED!not-for-mail
From: CSquared <obfuscatecsquared3@tx.rr.com.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking For MC145106 in UK
Date: Sun, 11 Jul 2010 21:46:31 -0500
Organization: A noiseless patient Spider
Lines: 44
Message-ID: <i1dvn0$to6$1@news.eternal-september.org>
References: <buGdnYXoh_D_CNLWnZ2dnUVZ8ridnZ2d@brightview.co.uk>
<nJSdnRFJO8B11s3WnZ2dnUVZ8rWdnZ2d@pipex.net>
<0aCdnQYDD46qNs3WnZ2dnUVZ8nGdnZ2d@brightview.co.uk> <JM-dnbtcvpX2UPzWnZ2dnUVZ8uadnZ2d@brightview.co.uk> <hjtngf$jkc$1@news.eternal-september.org> <YsOdnaQ4bahi16fRnZ2dnUVZ_uidnZ2d@giganews.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Mon, 12 Jul 2010 02:46:56 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="UF30aLzzMzzRRGsbYJ6RIw";
     logging-data="30470"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/RnMo1vMsV971k3bMNEcDx"
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
In-Reply-To: <YsOdnaQ4bahi16fRnZ2dnUVZ_uidnZ2d@giganews.com>
Cancel-Lock: sha1:UCtfaTAAZiXsd/M+loer6XtoAEc=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3595

betwys1 wrote:
> On 1/28/2010 10:16 PM, Charlie Carothers wrote:
>> John W wrote:
>>> Hi,
>>>
>>> A small update. I bought the MC145106, gave it to my friend and he is
>>> chuffed to bits.
>>>
>>> Thanks again,
>>>
>>> 73
>>> JOHN
>>> M5AML

>>> www.wells10000.plus.com/m5aml
>>>
>>>
>> OK, I just gotta ask. (I sort of collect English idiomatic expressions.)
>> I looked up chuffed on Dictionary.com and it says:
>> "Adjective British Informal: annoyed; displeased; disgruntled." It is
>> also listed as describing the sound of a train, etc.
>> My obvious question is, if he wanted one, and you bought and gave him
>> one, why is he "chuffed to bits"?
>> Or is there some more recent/other definition I don't know about?
>> EMWTK/IMWTK :) (Another English/English translation issue I think of
>> enquiring vs. inquiring.)
>> Thanks,
>> Charlie Carothers
>
> Chuffed = pleased, gruntled, thrilled.
>
> Brian W

My word!!! This exchange evidently occurred 6 months ago! I do recall overlooking the pertinent definition of chuffed on Dictionary.com. Oh the mysteries of the internet.

On the other hand, seems like stuff like this started happening once before and things eventually degraded to the point where I finally had to reinstall windoze to get everything settled down again...

Later,
Charlie C.
--
To email me, eradicate obfuscate & remove dot invalid.

```
From -89845898671028154
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder2.cambriumusenet.nl!
feeder1.cambriumusenet.nl!feed.tweaknews.nl!62.179.104.142.MISMATCH!
amsnews11.chello.com!uio.no!newsfeed1.funet.fi!newsfeeds.funet.fi!
feeder1.news.elisa.fi!uutiset.elisa.fi!7564ea0f!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: direct conversion receiver Question
Message-ID: <mg2l36h81q08fs88u6o5boliabe18lj9u1@4ax.com>
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
<SM2dnXpsdagGZaTRnZ2dnUVZ_sydnZ2d@bright.net> <21bqg7-0kd.ln1@radagast.org>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 45
```

Date: Mon, 12 Jul 2010 06:52:27 +0300
NNTP-Posting-Host: 85.77.196.113
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1278906750 85.77.196.113 (Mon, 12 Jul 2010 06:52:30 EEST)
NNTP-Posting-Date: Mon, 12 Jul 2010 06:52:30 EEST
Organization: Elisa Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:3596

On Sun, 11 Jul 2010 19:25:06 -0700, dplatt@radagast.org (Dave Platt) wrote:

>
>If you're just interested in AM signals, then you could filter
>the incoming signal, split it, amplify one half, and run this
>through a *very* narrow-band filter (think "oscillator and PLL")
>and use this as the LO input to the mixer. In effect, what
>you'd be doing is creating an LO signal which is a copy of the
>original signal's carrier, with the sidebands stripped away by
>the ultra-narrow filter / PLL. This is a pretty basic way of
>doing AM reception.

This is how some early video-IF chips performed the video detection (instead of simple envelope detection). There was a high-Q resonance circuit tuned to the nominal video-IF, which was excited by the visual carrier. Due to the high Q, the resonator was "ringing" for a few cycles, even if there was no carrier present for a few cycles.

This filtered carrier was then used by the product detector (multiplier) to extract the video and intercarrier sound.

In countries using negative video modulation (sync 100 %, black 80-90 % and white about 10 %), the intercarrier sound system could be used. After the video detector, the sound FM signal was at 4.5, 5.5, 6.0 or 6.5 MHz depending on system and was then processed with an ordinary FM strip tuned to that frequency.

For proper operation, this required that both the visual as well as audio carrier frequency was always present in order to produce the frequency difference signal for the 4.5-6.5 MHz audio subcarrier.

For various reasons (bad filter group delay, overmodulated white levels, especially subtitles), the video level dropped to 0 %, the simple envelope detector did not work and hence the intercarrier audio signal could not be formed and there was various forms "picture in audio" buzz.

The ringing in high-Q section at the product detector made it possible to "ride through" the short video signal interruption, intercarrier audio-IF was produced constantly and thus the buzz in the audio was reduced.

Paul OH3LWR

```
From -1923089380518372161
X-Google-Thread: fc2a5,35494d1e0c96c9f4,start
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,35494d1e0c96c9f4,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y32g2000prc.googlegroups.com!not-for-
mail
From: "www.jersey-2009.com" <brandtrade01@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: nike shox TL3 sports shoes  made in china (http://www.brandtrade99.com
     )
Date: Mon, 12 Jul 2010 02:25:36 -0700 (PDT)
Organization: http://groups.google.com
Lines: 49
Message-ID: <af19e6d3-2ed3-4f0e-adc3-5d474fd4fb77@y32g2000prc.googlegroups.com>
NNTP-Posting-Host: 218.86.49.111
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1278926737 18386 127.0.0.1 (12 Jul 2010 09:25:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 12 Jul 2010 09:25:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y32g2000prc.googlegroups.com; posting-host=218.86.49.111;
     posting-account=9WJp_QoAAAC6HsITIxmG_5hDn1LUe1av
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3597
rec.puzzles.crosswords:7984
```

AF1 shoes(http://www.brandtrade99.com)
adidas 35th shoes(http://www.brandtrade99.com)
nike shoes,jordan shoes(http://www.brandtrade99.com)
Air Force 1 shoes(http://www.brandtrade99.com)
kids shoes(http://www.brandtrade99.com)
nike air max TN shoes(http://www.brandtrade99.com)
nike MAX LTD shoes (http://www.brandtrade99.com)
nike air MAX 180 sports shoes(http://www.brandtrade99.com)
nike air max 360 basketball shoes made in china (http://
www.brandtrade99.com)
nike air max 2003 running shoes made in china (http://
www.brandtrade99.com)
nike air max 97 sport shoes made in china (http://
www.brandtrade99.com)
nike air max 95 basketball shoes(http://www.brandtrade99.com)
nike air max 90 running shoes made in china (http://
www.brandtrade99.com)
nike air max 87 fashion shoes made in china (http://

```
www.brandtrade99.com )
nike Shox TL1 men shoes  made in china (http://www.brandtrade99.com )
nike shox TL3 sports shoes  made in china (http://
www.brandtrade99.com )
nike shox NZ running shoes (http://www.brandtrade99.com)
nike shox OZ basketball shoes  made in china (http://
www.brandtrade99.com )
nike shox R3 sport shoes made in china (http://www.brandtrade99.com )
nike shox R4 fashion shoes  made in china (http://
www.brandtrade99.com )
nike shox R5 running shoes  made in china (http://
www.brandtrade99.com )
puma shoes made in china (http://www.brandtrade99.com )
bape shoes made in china (http://www.brandtrade99.com )
Gucci shoes made in china (http://www.brandtrade99.com )
Lacoste shoes made in china (http://www.brandtrade99.com )
LV shoes made in china (http://www.brandtrade99.com )
Timberland shoes made in china (http://www.brandtrade99.com )
Evisu shoes made in china (http://www.brandtrade99.com )
D&G shoes made in china (http://www.brandtrade99.com )
nike running  made in china (http://www.brandtrade99.com )
prada shoes made in china (http://www.brandtrade99.com )
DSQ shoes made in china (http://www.brandtrade99.com )
nike football shoes made in china (http://www.brandtrade99.com )
nike DUNK shoes made in china (http://www.brandtrade99.com )
Rift shoes made in china (http://www.brandtrade99.com )
NBA basketball shoes made in china (http://www.brandtrade99.com )
adidas running made in china (http://www.brandtrade99.com )
adidas NBA shoes made in china (http://www.brandtrade99.com )
adidas 35th anniversary shoes made in china (http://
www.brandtrade99.com )


From -8545725545482575731
X-Google-Thread: fc2a5,ba23089760b98c81
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!news2.arglkargh.de!news.musoftware.de!wum.musoftware.de!fu-
berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <knock_yourself_out@example.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking For MC145106 in UK
Date: 12 Jul 2010 14:36:23 GMT
Lines: 14
Message-ID: <slrni3logm.2r3i.knock_yourself_out@shell.config.com>
References: <buGdnYXoh_D_CNLWnZ2dnUVZ8ridnZ2d@brightview.co.uk>
 <nJSdnRFJO8B11s3WnZ2dnUVZ8rWdnZ2d@pipex.net>
 <0aCdnQYDD46qNs3WnZ2dnUVZ8nGdnZ2d@brightview.co.uk>
 <JM-dnbtcvpX2UPzWnZ2dnUVZ8uadnZ2d@brightview.co.uk>
 <hjtngf$jkc$1@news.eternal-september.org>
 <YsOdnaQ4bahi16fRnZ2dnUVZ_uidnZ2d@giganews.com>
 <i1dvn0$to6$1@news.eternal-september.org>
Reply-To: If you must, <Reply_to@my.sig.adr>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: individual.net 6OX6D88uJJ1ZHyBBJBbrpAnvXXO1lcginsKBQBxijWuoO9lN7i
Cancel-Lock: sha1:eT6LBdNc50qqF5kYhOB1hI33IT0=
User-Agent: slrn/0.9.9p1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3598

On Sun, 11 Jul 2010 21:46:31 -0500, CSquared wrote:
>
> On the other hand, seems like stuff like this started happening once
> before and things eventually degraded to the point where I finally had
> to reinstall windoze to get everything settled down again...

One of the definitions of insanity is doing the same thing over and
over again with the expectation of producing different results.

Jonesy
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    * Killfiling google & XXXXbanter.com: jonz.net/ng.htm


From -8022356632467090119
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.acm.uiuc.edu!
news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: direct conversion receiver Question
Date: Mon, 12 Jul 2010 11:05:05 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 22
Sender: et472@220-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.1007121104250.13350@darkstar.example.net>
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
 <9m3k36pk5eb0c22b66iqq5c1ldfahrb32l@4ax.com>
NNTP-Posting-Host: 220-215-235-64-ppp.3menatwork.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1278947261 11201 64.235.215.220 (12 Jul 2010 15:07:41 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 12 Jul 2010 15:07:41 GMT
In-Reply-To: <9m3k36pk5eb0c22b66iqq5c1ldfahrb32l@4ax.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:3599
```

On Sun, 11 Jul 2010, Paul Keinanen wrote:

> On Sun, 11 Jul 2010 10:50:58 -0500, "amdx" <amdx@knology.net> wrote:
>
>> In a direct conversion receiver, does the osc. run at
>> exactly the same frequency as the received signal?
>>
>> Assuming the answer is yes;
>> Is it possible to have a high Q LC front end at the output from the
>> antenna,
>> split the signal and feed one output to the rf input of the mixer and feed
>> the other splitter output to an amplifier and use the amplified signal to
>> drive the osc input of the mixer?
>
> Are you trying to reinvent the regenerative receiver ?
>
>

No, because regeneration is about feeding the output of a stage back into
the input, so there is near infinite amplification.

Michael VE2BVW

From 7938650627629023422
X-Google-Thread: fc2a5,ba23089760b98c81
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
209.197.12.242.MISMATCH!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.249.MISMATCH!transit3.readnews.com!news-out.readnews.com!news-
xxxfer.readnews.com!news.misty.com!not-for-mail
From: "Geoffrey S. Mendelson" <gsm@cable.mendelson.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking For MC145106 in UK
Date: Mon, 12 Jul 2010 15:54:04 +0000 (UTC)
Organization: MGT Consulting
Lines: 13
Message-ID: <slrni3mejc.mmq.gsm@cable.mendelson.com>
References: <buGdnYXoh_D_CNLWnZ2dnUVZ8ridnZ2d@brightview.co.uk>
<nJSdnRFJO8B11s3WnZ2dnUVZ8rWdnZ2d@pipex.net>
<0aCdnQYDD46qNs3WnZ2dnUVZ8nGdnZ2d@brightview.co.uk>
<JM-dnbtcvpX2UPzWnZ2dnUVZ8uadnZ2d@brightview.co.uk>
<hjtngf$jkc$1@news.eternal-september.org>
<YsOdnaQ4bahi16fRnZ2dnUVZ_uidnZ2d@giganews.com>
<i1dvn0$to6$1@news.eternal-september.org>
<slrni3logm.2r3i.knock_yourself_out@shell.config.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: cbl217-132-122-50.bb.netvision.net.il
X-Trace: max.inside.misty.com 1278950044 27597 217.132.122.50 (12 Jul 2010
15:54:04 GMT)

X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Mon, 12 Jul 2010 15:54:04 +0000 (UTC)
User-Agent: slrn/pre1.0.0-11 (Linux)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3600

Allodoxaphobia wrote:

> One of the definitions of insanity is doing the same thing over and
> over again with the expectation of producing different results.

That was before Jurassic Park came out. Before then only "rock star
mathemticians" had heard of Chaos Theory, afterwards (almost) everyone had.

Geoff.
--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
I do multitasking. If that bothers you, file a complaint and I will start
ignoring it immediately.

From 1506679539478566562
X-Google-Thread: fc2a5,ba23089760b98c81
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-
me.highwinds-media.com!nntp.club.cc.cmu.edu!feeder.erje.net!newsfeed.datemas.de!
eternal-september.org!.POSTED!not-for-mail
From: CSquared <obfuscatecsquared3@tx.rr.com.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking For MC145106 in UK
Date: Mon, 12 Jul 2010 14:15:04 -0500
Organization: A noiseless patient Spider
Lines: 17
Message-ID: <i1fpji$ot9$1@news.eternal-september.org>
References: <buGdnYXoh_D_CNLWnZ2dnUVZ8ridnZ2d@brightview.co.uk>
<nJSdnRFJO8B11s3WnZ2dnUVZ8rWdnZ2d@pipex.net>
<0aCdnQYDD46qNs3WnZ2dnUVZ8nGdnZ2d@brightview.co.uk> <JM-
dnbtcvpX2UPzWnZ2dnUVZ8uadnZ2d@brightview.co.uk> <hjtngf$jkc$1@news.eternal-
september.org> <YsOdnaQ4bahi16fRnZ2dnUVZ_uidnZ2d@giganews.com>
<i1dvn0$to6$1@news.eternal-september.org>
<slrni3logm.2r3i.knock_yourself_out@shell.config.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Mon, 12 Jul 2010 19:14:58 +0000 (UTC)
Injection-Info: mx03.eternal-september.org; posting-host="UF30aLzzMzzRRGsbYJ6RIw";
     logging-data="25513"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+JJVUOXbf+rZLwKBAWmhbc"
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
In-Reply-To: <slrni3logm.2r3i.knock_yourself_out@shell.config.com>
Cancel-Lock: sha1:hzzgI2Jxe/68NOqSf3qS+dqXRdE=

Xref: g2news1.google.com rec.radio.amateur.homebrew:3601

Allodoxaphobia wrote:
> On Sun, 11 Jul 2010 21:46:31 -0500, CSquared wrote:
>> On the other hand, seems like stuff like this started happening once
>> before and things eventually degraded to the point where I finally had
>> to reinstall windoze to get everything settled down again...
>
> One of the definitions of insanity is doing the same thing over and
> over again with the expectation of producing different results.
>
> Jonesy

Quite so, but *not* using windoze would probably produce even more
insanity - at least temporarily anyway. :-)
Later,
Charlie C.
--
To email me, eradicate obfuscate & remove dot invalid.

From -6595571471426080201
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
Subject: Re: direct conversion receiver Question
Date: Mon, 12 Jul 2010 15:41:54 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 100712-0, 07/12/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <88a2d$4c3b7e54$45013905$4086@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 32
X-Trace: 88a2d4c3b7e54e0a49ca004086
Xref: g2news1.google.com rec.radio.amateur.homebrew:3602

"amdx" <amdx@knology.net> wrote in message
news:a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET...
> In a direct conversion receiver, does the osc. run at
> exactly the same frequency as the received signal?

```
>
> Assuming the answer is yes;
> Is it possible to have a high Q  LC front end  at the output from the
> antenna,
> split the signal and feed one output to the rf input of the mixer and feed
> the other splitter output to an amplifier and use the amplified signal to
> drive the osc input of the mixer?
>
> Simple block diagram of proposed idea;
> http://i395.photobucket.com/albums/pp37/Qmavam/directconversion.jpg
>
> --
> MikeK
  Hi all,
 I started my post writing about AMBCB and an example frequency of 1430 khz.
  Then I rewrote it and skipped all that.
So from what I have gleened from the responses, I would need to feed the
1430 khz
into the IF mixer input to get the baseband audio.
 I don't know what the advantage of this would be but the local osc would be
as
stable as the radio station. And no need to build an oscilator.
 Any other feedback now that I'm talking AM BCB radio?
                                                  Mike
```

```
From -8576652769550781342
X-Google-Thread: fc2a5,4f56ac9faa624c66
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe10.iad.POSTED!6ec25d62!not-for-mail
From: "Graeme Zimmer" <gzimmer@wideband.net.au>
Newsgroups: rec.radio.amateur.homebrew
References: <a2828$4c39e867$18ec6dd7$1674@KNOLOGY.NET>
<88a2d$4c3b7e54$45013905$4086@KNOLOGY.NET>
Subject: Re: direct conversion receiver Question
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Response
Message-ID: <%JQ_n.11367$Hw.6710@newsfe10.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Tue, 13 Jul 2010 03:05:31 UTC
Organization: TeraNews.com
Date: Tue, 13 Jul 2010 13:05:23 +1000
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:3603

Hello Mike,

If you Google on "Synchronous AM Detector" and "Exalted Carrier Reception"
you'll find lots of info

This is good place to start....
http://www.radio-electronics.com/info/receivers/synchdet/sync_det.php

Regards .... Zim

From 2952673774760222189
X-Google-Thread: fc2a5,e280b71d5cfe24be,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s17g2000prh.googlegroups.com!not-for-mail
From: BASS <dalermehandi9247@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT ACTRESS
Date: Mon, 12 Jul 2010 23:19:43 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <76d9ae85-9ca1-49cc-a94f-9eec8ff592d0@s17g2000prh.googlegroups.com>
NNTP-Posting-Host: 117.199.246.216
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1279001983 8185 127.0.0.1 (13 Jul 2010 06:19:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 13 Jul 2010 06:19:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s17g2000prh.googlegroups.com; posting-host=117.199.246.216;
posting-account=ChMvegkAAADX5lcnTEWruk43MP3_cJY6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.6)
Gecko/20100625 Firefox/3.6.6,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3604

FOR HOT HEROINES PHOTOS

http://hotheroinesphoto.blogspot.com

AISHWARIYARAI HOT EXPOSING PHOTO

http://hotheroinesphoto.blogspot.com/2010/06/aishwariyarai-hot-photo.html

ANKITHA IN A TUB BATH

http://hotheroinesphoto.blogspot.com/2010/06/ankitha-in-tub-bath.html

NAMITHA SEXY PHOTO IN BEACH

http://hotheroinesphoto.blogspot.com/2010/06/namitha-in-beach.html

CHARMI IN A SEXY FEEL

http://hotheroinesphoto.blogspot.com/2010/06/sexy-charmi.html

CHENNAI HOT GIRLS WITH SWIM WEAR

http://hotheroinesphoto.blogspot.com/2010/06/chennai-hot-girls.html

KAJAL AGARWALHOT PHOTO

http://hotheroinesphoto.blogspot.com/2010/06/kajal-agarwal-hot.html

KATRINA KAIF IN A HOT SAREE

http://hotheroinesphoto.blogspot.com/2010/06/hot-katrina.html

---

```
From -2148221997007788722
X-Google-Thread: fc2a5,511eaa542b2d1a65,start
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,511eaa542b2d1a65,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!u36g2000prg.googlegroups.com!not-for-
mail
From: brandtrade <beijingcao2010@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: Cheap Wholesale Adidas Shoes (paypal payment) (http://
www.brandtrade99.com/
     )
Date: Tue, 13 Jul 2010 01:05:27 -0700 (PDT)
Organization: http://groups.google.com
Lines: 67
Message-ID: <9379fc1c-586c-4f5c-9d23-3f09d7162b6e@u36g2000prg.googlegroups.com>
NNTP-Posting-Host: 112.111.174.26
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1279008328 25750 127.0.0.1 (13 Jul 2010 08:05:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 13 Jul 2010 08:05:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u36g2000prg.googlegroups.com; posting-host=112.111.174.26;
     posting-account=-P1o7goAAABXl0qTHGQQzIx4i6s1h46F
User-Agent: G2/1.0
```

X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3605
rec.puzzles.crosswords:7989

heap Wholesale UGG Shoes (paypal payment)
(http://www.brandtrade99.com/)
Cheap Wholesale Ugg Boots (paypal payment)
Cheap Wholesale Gucci Shoes (paypal payment)
(http://www.brandtrade99.com/)
Cheap Wholesale GUCCI Boots
Cheap Wholesale Lacoste Shoes
Cheap Wholesale LV Shoes (paypal payment)
(http://www.brandtrade99.com/)
Cheap Wholesale LV Boots
Cheap Wholesale Prada Shoes (paypal payment)
(http://www.brandtrade99.com/)
Cheap Wholesale Timberland Shoes
Cheap Wholesale D&G Shoes (paypal payment)
(http://www.brandtrade99.com/)
Cheap Wholesale D&G Boots
Cheap Wholesale Puma Shoes
Cheap Wholesale Puma AAA (paypal payment)
(http://www.brandtrade99.com/)
Cheap Wholesale UGG Boots Shoes
Cheap Wholesale Bikkem Bergs Shoes (free shipping)
Cheap Wholesale Mauri Shoes Man
Cheap Wholesale Versace Shoes (paypal payment)
(http://www.brandtrade99.com/)
Cheap Wholesale Versace Boots
Cheap Wholesale Paul Smith Shoes (free shipping)
Cheap Wholesale BOSS Shoes
Cheap Wholesale Burberry Shoes (paypal payment)
(http://www.brandtrade99.com/)
Cheap Wholesale Dsquared shoes
Cheap Wholesale Dior Shoes (free shipping)
Cheap Wholesale Dior Boots
Cheap Wholesale ED Hardy Shoes (paypal payment)
(http://www.brandtrade99.com/)
Cheap Wholesale ED Hardy Boots
Cheap Wholesale ED Hardy Shoes Man (paypal payment)
(http://www.brandtrade99.com/)
Cheap Wholesale Fendi Shoes (paypal payment)
(http://www.brandtrade99.com/)
Cheap Wholesale Fendi Boots
Cheap Wholesale AFF Shoes (paypal payment)
(http://www.brandtrade99.com/)
Cheap Wholesale Evisu Shoes (free shipping)
Cheap Wholesale 4US Shoes
Cheap Wholesale Sebago Shoes (paypal payment)
(http://www.brandtrade99.com/)
Cheap Wholesale Supra Shoes
Cheap Wholesale Hight Converse Shoes (paypal payment)

```
(http://www.brandtrade99.com/ )
Cheap Wholesale Coach Boots
Cheap Wholesale Coach Shoes
Women Christian Louboutin (paypal payment)
(http://www.brandtrade99.com/ )
Cheap Wholesale Chanel Shoes
Cheap Wholesale Chanel Boots (free shipping)
Cheap Wholesale Bape Shoes
Cheap Wholesale Adidas Shoes (paypal payment)
(http://www.brandtrade99.com/ )
Cheap Wholesale Adicolor (free shipping)
Cheap Wholesale Adidas 35TH (paypal payment)
(http://www.brandtrade99.com/ )
Cheap Wholesale Adidas NBA
Cheap Wholesale Adidas Running (paypal payment)
(http://www.brandtrade99.com/ )
Cheap Wholesale Adidas Y3
Cheap Wholesale Soccer Shoes (paypal payment)
(http://www.brandtrade99.com/ )


From -8223085464263759780
X-Google-Thread: 241b302a50,d0c862f924e66bb
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!goblin3!gin-ad1-unet1.teleglobe.net!
goblin2!goblin.stu.neva.ru!feeder2.cambriumusenet.nl!feeder3.cambriumusenet.nl!
feed.tweaknews.nl!209.197.12.246.MISMATCH!nx02.iad01.newshosting.com!
newshosting.com!216.196.98.148.MISMATCH!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 30 May 2010 23:11:21 -0500
From: Plasmah77 <Plasmah77.648ec54@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: oscilloscope Model question
Date: Sun, 30 May 2010 23:36:28 +0100
Message-ID: <Plasmah77.648ec54@radiobanter.com>
Organization: RadioBanter.com
References: <Plasmah77.6479ad4@radiobanter.com> <19f05c4a-02b2-46ee-
a79c-2aa88ee9aa3a@t26g2000prt.googlegroups.com>
Lines: 44
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-F9q45HLLzKX1QT4PuX49tB/TqnEd2H5BRLtpS47M525vWOOlCXjS/
SRfhK+Z44veIHj5OrBX1QKZaBu!MGs4qcB4/
bu3PWeN6ZrmljCC4Z9fC+kcOrbWTUePMVTHRkOkLVLOK1UN5M9WdTYJBoHBE3xj1qDo!jfINmUs=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 36
Xref: g2news2.google.com rec.radio.amateur.homebrew:3750
```

Reason: I'm new to all this and I want to learn whatever I can.

Good enough?

If one does not ask questions how does one learn?

raypsi;708455 Wrote:
> On May 29, 6:34 pm, Plasmah77 Plasmah77.6479...@radiobanter.com
> wrote:-
> Hi all I'm a newbie here.
> -
>
>
> Hey OM
>
> Sorry to see you had to post in the homebrew group you must be
> desperate.
>
> I want to know why you want to know what the difference is, what is
> the reason for this question?
>
>
> Lastly back in the day when they made such things mfg's always
> updated/
> upgraded their products.
>
> Just so they could justify the high price, they added more features or
> improvements onto them.
>
> So to answer your question directly they improved on the 2215 so they
> named it the 2215A. I can tell you it won't be much of an improvemnet
> just that there is some slight difference.
>
> I used to   make a living selling electronic equipment. paticularly
> oscilliscopes.
>
> 73 OM
> de n8zu

--
Plasmah77

From 8840620402053022336
X-Google-Thread: 241b302a50,2a5143fdff0d8100
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit

```
Path: g2news2.google.com!news2.google.com!news.glorb.com!tr22g12.aset.psu.edu!not-
for-mail
From: "Bob Spooner" <rls19@psu.edu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Probes
Date: Mon, 31 May 2010 08:17:29 -0400
Organization: Penn State University, Academic Services and Emerging Technology
Lines: 23
Message-ID: <hu09d3$bg68$1@tr22n12.aset.psu.edu>
References: <Plasmah77.64897f3@radiobanter.com>
NNTP-Posting-Host: vpn2-1-77.cac.psu.edu
X-Trace: tr22n12.aset.psu.edu 1275308260 377032 172.25.1.77 (31 May 2010 12:17:40
GMT)
X-Complaints-To: usenet@tr22n12.aset.psu.edu
NNTP-Posting-Date: Mon, 31 May 2010 12:17:40 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Original
Xref: g2news2.google.com rec.radio.amateur.homebrew:3751


"Plasmah77" <Plasmah77.64897f3@radiobanter.com> wrote in message
news:Plasmah77.64897f3@radiobanter.com...
>
> I need to buy a probe for my oscilloscope which is 60 MHZ.
>
> My question is can I buy a probe that rated 100 MHZ or must I make sure
> it is rated 60 MHZ the same as my system?
>
> Thanks
>
>
>
>
> --
> Plasmah77

You can buy a probe with a higher frequency rating than your scope has and
it will work fine, it just will be more expensive.
Regards,
Bob





From -2733339313259494888
X-Google-Thread: 241b302a50,96700963d670224d,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!42g2000prb.googlegroups.com!not-for-
```

mail
From: cntrade08 <chenlily85@hotmail.com>
Newsgroups: rec.games.backgammon,rec.autos.makers.honda,rec.radio.amateur.homebrew
Subject: Discount Nike Air Max 90 Sneakers (http://www.cntrade09.com)
Date: Mon, 31 May 2010 06:57:15 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <44d349cf-8744-4f2d-8ffb-a29ba99c74c7@42g2000prb.googlegroups.com>
NNTP-Posting-Host: 58.22.132.129
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1275314235 16610 127.0.0.1 (31 May 2010 13:57:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 31 May 2010 13:57:15 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 42g2000prb.googlegroups.com; posting-host=58.22.132.129;
     posting-account=7TvlUQoAAADxnGNVXmG7TMs3l89CSV7Q
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     CIBA; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe)
Xref: g2news2.google.com rec.games.backgammon:5289 rec.autos.makers.honda:7501
rec.radio.amateur.homebrew:3752

nike shox TL3 sports shoes discount paypal (http://
www.cntrade09.com)
nike shox NZ running shoes (http://www.cntrade09.com)
nike shox OZ basketball shoes discount paypal (http://
www.cntrade09.com)
nike shox R3 sport shoes discount paypal (http://
www.cntrade09.com)
nike shox R4 fashion shoes discount paypal (http://
www.cntrade09.com)
nike shox R5 running shoes discount paypal (http://
www.cntrade09.com)
puma shoes discount paypal
Get Nike Shoes at Super Cheap Prices
Discount Ed hardy tshirt (http://www.cntrade09.com)
Discount Ed hardy jean (http://www.cntrade09.com)
Discount Ed hardy shoes (http://www.cntrade09.com)
Discount Ed hardy handbag (http://www.cntrade09.com)
Discount Ed hardy other porduct (http://www.cntrade09.com)
Discount Nike air jordans (http://www.cntrade09.com)
Discount Nike Air Max 90 Sneakers (http://www.cntrade09.com)
Discount Nike Air Max 91 Supplier (http://www.cntrade09.com)
Discount Nike Air Max 95 Shoes Supplier (http://
www.cntrade09.com)
Discount Nike Air Max 97 Trainers (http://www.cntrade09.com)
Discount Nike Air Max 2003   (http://www.cntrade09.com)
Discount Nike Air Max 2004 Shoes
(http://www.cntrade09.com)
Discount Nike Air Max 2005 Shop (http://www.cntrade09.com)
Discount Nike Air Max 2006 Shoes Shop (http://www.cntrade09.com)
Discount Nike Air Max 360 Catalogs (http://www.cntrade09.com)

Discount Nike Air Max Ltd Shoes Catalogs (http://www.cntrade09.com)
Discount Nike Air Max Tn Men's Shoes (http://www.cntrade09.com)

```
From 8023027765609573640
X-Google-Thread: 241b302a50,2a5143fdff0d8100
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news1.google.com!goblin3!gin-ad1-unet1.teleglobe.net!
goblin1!goblin2!goblin.stu.neva.ru!xlned.com!feeder7.xlned.com!news2.euro.net!
209.197.12.242.MISMATCH!nx01.iad01.newshosting.com!209.197.12.246.MISMATCH!
nx02.iad01.newshosting.com!newshosting.com!216.196.98.152.MISMATCH!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 31 May 2010 11:11:37 -0500
From: Plasmah77 <Plasmah77.6499516@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Probes
Date: Mon, 31 May 2010 12:05:16 +0100
Message-ID: <Plasmah77.6499516@radiobanter.com>
Organization: RadioBanter.com
References: <Plasmah77.64897f3@radiobanter.com> <3e0ca5b1-6b48-4a8a-aa0b-
e0e8de19fb53@40g2000vbr.googlegroups.com>
Lines: 43
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-2dZYctyxi8lWImbx6lcI28l8r28356AUaWB9sasLBq8zNxsfPns+lconUAU3vomwTU/
D9fTIU0MKUSZ!
pC5uTtBgtUwM0HSkqmBr83iCv3DuUqpyuxONS8etwmbtAMd0MNuH7zfyvR0JlW4eSQWDtaUePZ0B!
HavoMX0=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 29
Xref: g2news2.google.com rec.radio.amateur.homebrew:3753
```

Thank you very much Gary.

I just won a set of 100 MHZ probes with kit on ebay.
I'm building 15 HZ zapper circuits and I need the scope to make sure my signal is as close to 15 HZ as possible. I almost bought one of those DSO nano's but someone told me they are **** ;). They told me I was better off spending money on an analog unit rather then waste cash on the Nano.

Me being new to all this it took me a bit to learn how to read an analog scope but I'm picking it all up pretty good.

```
Thanks again and have a great day.

Jim

'Gary[_5_ Wrote:
> ;708475']On May 30, 3:12�pm, Plasmah77
> Plasmah77.6489...@radiobanter.com
> wrote:-
> I need to buy a probe for my oscilloscope which is 60 MHZ.
>
> My question is can I buy a probe that rated 100 MHZ or must I make
> sure
> it is rated 60 MHZ the same as my system?
>
> Thanks
>
> --
> Plasmah77-
>
> The 100 MHZ probe will work fine.  The 60 MHZ specification on your
> scope means its vertical amplifier and display will start to degrade
> at 60 MHZ or higher in frequency.  Therefore using a probe with a 60
> MHZ rating will allow you to realize all of your scope's capabilities.
>
> Gary N4AST




--
Plasmah77


From 716167372807524390
X-Google-Thread: 241b302a50,2a5143fdff0d8100
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news4.google.com!news2.google.com!npeer03.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
nntp.club.cc.cmu.edu!feeder.erje.net!newsfeed1.swip.net!not-for-mail
Message-ID: <4C04185C.9010300@nowhere.com>
Date: Mon, 31 May 2010 22:13:16 +0200
From: nobody <nobody@nowhere.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.0.2) Gecko/
20021120 Netscape/7.01
X-Accept-Language: sv, en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Probes
References: <Plasmah77.64897f3@radiobanter.com> <3e0ca5b1-6b48-4a8a-aa0b-
e0e8de19fb53@40g2000vbr.googlegroups.com>
Content-Type: text/plain; charset=UTF-8; format=flowed
```

```
Content-Transfer-Encoding: 8bit
Lines: 19
Organization: A Customer of Tele2
NNTP-Posting-Host: 212.151.11.105
X-Trace: 1275336860 anchorman-read.tele2.net 27547 212.151.11.105:1056
X-Complaints-To: abuse@swip.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:3754

Gary wrote:
> On May 30, 3:12�pm, Plasmah77 <Plasmah77.6489...@radiobanter.com>
> wrote:
>
> The 60 MHZ specification on your
> scope means its vertical amplifier and display will start to degrade
> at 60 MHZ or higher in frequency.

No. It is 3dB Bandwidth. Degrade will start earlier. You will have lost
half power or in voltage around 30% of the signal.


Therefore using a probe with a >60
> MHZ rating will allow you to realize all of your scope's capabilities.

There is also a capacitance specification that should match. It is
however unlikely that it should not. Go ahead with the 100MHz probes if
you get them at a fair price.




From -1766661411358265229
X-Google-Thread: 241b302a50,2a5143fdff0d8100
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 31 May 2010 16:33:56 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Plasmah77.64897f3@radiobanter.com> <3e0ca5b1-6b48-4a8a-aa0b-
e0e8de19fb53@40g2000vbr.googlegroups.com> <4C04185C.9010300@nowhere.com>
Subject: Re: Probes
Date: Mon, 31 May 2010 16:33:55 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
Message-ID: <iaSdnQuUJsbZtpnRnZ2dnUVZ_tWdnZ2d@giganews.com>
Lines: 37
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
```

```
cC3e4+ih5a29RUZunkkqrUdQAnkMLW8841zk73Vqdtg3tewCL554iSvmCpdOBHBo6Ava8qP47ruJ69m!
oUH6Cc+9421OZk/i0dYq9MzL/rGwziMNIg5V9DoCSm29IK5NNLBIlE/aq/Bd7fveekm9ClqkQlZS
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3755

nobody wrote:
> Gary wrote:
>> On May 30, 3:12?pm, Plasmah77 <Plasmah77.6489...@radiobanter.com>
>> wrote:
>>
>> The 60 MHZ specification on your
>> scope means its vertical amplifier and display will start to degrade
>> at 60 MHZ or higher in frequency.
>
> No. It is 3dB Bandwidth. Degrade will start earlier. You will have
> lost half power or in voltage around 30% of the signal.
>
>
> Therefore using a probe with a >60
>> MHZ rating will allow you to realize all of your scope's
>> capabilities.
>
> There is also a capacitance specification that should match. It is
> however unlikely that it should not. Go ahead with the 100MHz probes
> if you get them at a fair price.

Here are some guidelines to determine more exactly what the interaction
between the scope and probe is:
Bandwidth is BW
Risetime is Tr
BW = 0.35/Tr
Tr(overall) = Sqrt(Tr(scope)^2 + Tr(probe)^2)

Then if
Scope Tr at 60 MHz = 5.9nS
Probe Tr at 100 MHz = 3.5 nS
Overall Tr = 6.80 nS, making overall -3db bandwidth = 51.4 MHz
--
David
dgminala at mediacombb dot net




From 352646075989013543
X-Google-Thread: 241b302a50,2a5143fdff0d8100
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 31 May 2010 17:14:33 -0500
Date: Mon, 31 May 2010 17:14:15 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Probes
References: <Plasmah77.64897f3@radiobanter.com> <3e0ca5b1-6b48-4a8a-aa0b-
e0e8de19fb53@40g2000vbr.googlegroups.com> <4C04185C.9010300@nowhere.com>
<iaSdnQuUJsbZtpnRnZ2dnUVZ_tWdnZ2d@giganews.com>
In-Reply-To: <iaSdnQuUJsbZtpnRnZ2dnUVZ_tWdnZ2d@giganews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <ZeqdnYYkucdUqZnRnZ2dnUVZ_tmdnZ2d@giganews.com>
Lines: 39
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-O7M9IxkAANf1b6U7f/8W3uXksQpR7Dz3qW1Hz3lHaO0SkysdqIPa4oQrj8MXrPkFG/
psuQcTBVn1fBm!8XNutaDPSVqemhIcZ07a5MoXZhxDu/
tMvbIFSAT1Wx0zyU0w+6qKqG0zfzWRPTixwRifG7Fm1+Tz
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3756

Dave M wrote:
> nobody wrote:
>> Gary wrote:
>>> On May 30, 3:12?pm, Plasmah77 <Plasmah77.6489...@radiobanter.com>
>>> wrote:
>>>
>>> The 60 MHZ specification on your
>>> scope means its vertical amplifier and display will start to degrade
>>> at 60 MHZ or higher in frequency.
>> No. It is 3dB Bandwidth. Degrade will start earlier. You will have
>> lost half power or in voltage around 30% of the signal.
>>
>>
>> Therefore using a probe with a >60
>>> MHZ rating will allow you to realize all of your scope's
>>> capabilities.
>> There is also a capacitance specification that should match. It is
>> however unlikely that it should not. Go ahead with the 100MHz probes
>> if you get them at a fair price.
>
> Here are some guidelines to determine more exactly what the interaction
```

> between the scope and probe is:
> Bandwidth is BW
> Risetime is Tr
> BW = 0.35/Tr
> Tr(overall) = Sqrt(Tr(scope)^2 + Tr(probe)^2)
>
> Then if
> Scope Tr at 60 MHz = 5.9nS
> Probe Tr at 100 MHz = 3.5 nS
> Overall Tr = 6.80 nS, making overall -3db bandwidth = 51.4 MHz

Though this sounds plausible, and it's thought through,
I think the result is mistaken.
A 60MHz scope is not a 60 MHz scope only if used with
 (say) 3 GHz probes; its a 60 MHz scope if used with the probes as
provided or specified by the maker.

Brian W

From -8836179392472271468
X-Google-Thread: 241b302a50,45be33c6b88b5b2d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 31 May 2010 18:00:32 -0500
Date: Mon, 31 May 2010 18:00:13 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PP GG amp
References: <e7a7790c-26da-499a-be55-be76e44961e2@w3g2000vbd.googlegroups.com>
<htuhg3$h6d$1@news.albasani.net>
In-Reply-To: <htuhg3$h6d$1@news.albasani.net>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <V9KdnWYfZLINopnRnZ2dnUVZ_rydnZ2d@giganews.com>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-3DhV5KTmbsJi7RSzUM51WfNjlO/
OCZNRK2wGi8XoH7btQ5pekfM3bgCWpAnZXyHLesxSdPaw5NDgmpe!A/JYbQiJb+fCRnwMX/
K5+FAWYVekLk1caf45Qk4OjJajZoRpZmlF1jFMIXZycQrECSgUm9Sjx2SQ
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40

Xref: g2news2.google.com rec.radio.amateur.homebrew:3757

Pete wrote:
> On Sat, 29 May 2010 14:36:00 -0700, JIMMIE wrote:
>
>> Many years ago when I was a teenager I remember a guy that was building
>> a push-pull grounded grid amplifier /snip/
>> Jimmie
>
> Though I may be wrong (I often am) a Grounded grid push-pull is not
> possible. /snip/

I know where you are coming from. If both tubes of a push pull long tail
pair have grounded grids, it would be awkward to insert the signal.
But if the push pull setup consists of cascode tubes each side, then a
regular grid could inject the signal to modulate the grounded grid tube
cathode current in cascode, to reflect on the other leg.

Brian W

From -3633606463148601010
X-Google-Thread: 241b302a50,2a5143fdff0d8100
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 31 May 2010 19:13:11 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Plasmah77.64897f3@radiobanter.com> <3e0ca5b1-6b48-4a8a-aa0b-
e0e8de19fb53@40g2000vbr.googlegroups.com> <4C04185C.9010300@nowhere.com>
<iaSdnQuUJsbZtpnRnZ2dnUVZ_tWdnZ2d@giganews.com>
<ZeqdnYYkucdUqZnRnZ2dnUVZ_tmdnZ2d@giganews.com>
Subject: Re: Probes
Date: Mon, 31 May 2010 19:13:10 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
Message-ID: <eZ6dnS1leZMKzZnRnZ2dnUVZ_oednZ2d@giganews.com>
Lines: 69
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Oi7j2QM3Mch0yb8JfK/Om1CqGDJL7IfqGClLCv71Uy57+g84/
ai5oyV0y0MjqD6/2VumqjGmcXeds8o!
kLI1NQmuUwYhoiDo8d99mxRRxjEaW94CCyZOsfCQtkLTy6b0a2RfDUB/v3YdHqkdd4t1Zjdi0VvB
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers

X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3758

brian whatcott wrote:
> Dave M wrote:
>> nobody wrote:
>>> Gary wrote:
>>>> On May 30, 3:12?pm, Plasmah77 <Plasmah77.6489...@radiobanter.com>
>>>> wrote:
>>>>
>>>> The 60 MHZ specification on your
>>>> scope means its vertical amplifier and display will start to
>>>> degrade at 60 MHZ or higher in frequency.
>>> No. It is 3dB Bandwidth. Degrade will start earlier. You will have
>>> lost half power or in voltage around 30% of the signal.
>>>
>>>
>>> Therefore using a probe with a >60
>>>> MHZ rating will allow you to realize all of your scope's
>>>> capabilities.
>>> There is also a capacitance specification that should match. It is
>>> however unlikely that it should not. Go ahead with the 100MHz probes
>>> if you get them at a fair price.
>>
>> Here are some guidelines to determine more exactly what the
>> interaction between the scope and probe is:
>> Bandwidth is BW
>> Risetime is Tr
>> BW = 0.35/Tr
>> Tr(overall) = Sqrt(Tr(scope)^2 + Tr(probe)^2)
>>
>> Then if
>> Scope Tr at 60 MHz = 5.9nS
>> Probe Tr at 100 MHz = 3.5 nS
>> Overall Tr = 6.80 nS, making overall -3db bandwidth = 51.4 MHz
>
> Though this sounds plausible, and it's thought through,
> I think the result is mistaken.
> A 60MHz scope is not a 60 MHz scope only if used with
> (say) 3 GHz probes; its a 60 MHz scope if used with the probes as
> provided or specified by the maker.
>
> Brian W

It's not mistaken... in fact, it's well documented. Here are some
attributions that elaborate on the effects of a probe on the overall
bandwidth of a scope/probe combination.
http://books.google.com/books?
id=xHASd9YksRgC&pg=PA77&lpg=PA77&dq=scope+OR+oscilloscope+
%22equivalent+bandwidth%22+probe&source=bl&ots=CjB4keyul8&sig=cKSDnI9nV3Iwos1KRpP_
3nNjC9s&hl=en&ei=KTwETKKiLMP48Ab57djTDQ&sa=X&oi=book_result&ct=result&resnum=3&ved

=0CCAQ6AEwAg#v=onepage&q=scope%20OR%20oscilloscope%20%22equivalent%20bandwidth%22%
20probe&f=false

http://www.adler-instrumentos.es/imagenes_web/notas_aplicacion/
Fundamentos%20de%20Integridad%20de%20Se%C3%B1al.pdf
pg 3

http://www.freelists.org/post/si-list/high-speed-test-measurement-equipment,9

http://www.analog.com/library/analogdialogue/cd/vol41n1.pdf pg 13

As you can see from the documents, the scope and probe bandwidths do interact as the RMS sum of the two. The vertical bandwidth or risetime of scopes is specified at the scope's input connector. If the bandwidth specification includes the probe, it will be specified as such. In those cases, the scope's bandwidth will be specified separately, and will be higher than the scope/probe combination.
Vertical bandwidth on many high quality scopes will be described in their manuals or spec sheets when using a variety of probes, and will reflect the equivalent bandwidth accordingly.

--
David
dgminala at mediacombb dot net

From -3327969985314489093
X-Google-Thread: 241b302a50,2a5143fdff0d8100
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 31 May 2010 19:41:09 -0500
Date: Mon, 31 May 2010 19:40:50 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Probes
References: <Plasmah77.64897f3@radiobanter.com> <3e0ca5b1-6b48-4a8a-aa0b-
e0e8de19fb53@40g2000vbr.googlegroups.com> <4C04185C.9010300@nowhere.com>
<iaSdnQuUJsbZtpnRnZ2dnUVZ_tWdnZ2d@giganews.com>
<ZeqdnYYkucdUqZnRnZ2dnUVZ_tmdnZ2d@giganews.com>
<eZ6dnS1leZMKzZnRnZ2dnUVZ_oednZ2d@giganews.com>
In-Reply-To: <eZ6dnS1leZMKzZnRnZ2dnUVZ_oednZ2d@giganews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

```
Message-ID: <VL2dnRAsto-6ypnRnZ2dnUVZ_o6dnZ2d@giganews.com>
Lines: 73
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-zUH9OyyIthw1KgsJn7yF5V9mzGcqHlXs3ljX+oyeyTHmTf8z14pcJJEECgzT/
kKiJmHIfcudvNXPBF7!VhyjzzO0oPvxMLCOF0xWG5+xuv9iXF/
jqbwtF46OSewwUapnmIQXegufAcrqwswZyWsBqNW+PniX
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3759

I agree with the equation for summing bandwidth determining components,
and I agree with many of your other comments.

But concluding that a 60 MHz scope with 100MHz probes provides a 51 MHz
bandwidth combination is (in my view) mistaken.

This is not the Tektronix way.
And the Tektronix way is the ONLY way with scopes!   :-)

Brian W

Dave M wrote:
> brian whatcott wrote:
>> Dave M wrote:
>>> nobody wrote:
>>>> Gary wrote:
>>>>> On May 30, 3:12?pm, Plasmah77 <Plasmah77.6489...@radiobanter.com>
>>>>> wrote:
>>>>>
>>>>> The 60 MHZ specification on your
>>>>> scope means its vertical amplifier and display will start to
>>>>> degrade at 60 MHZ or higher in frequency.
>>>> No. It is 3dB Bandwidth. Degrade will start earlier. You will have
>>>> lost half power or in voltage around 30% of the signal.
>>>>
>>>>
>>>> Therefore using a probe with a >60
>>>>> MHZ rating will allow you to realize all of your scope's
>>>>> capabilities.
>>>> There is also a capacitance specification that should match. It is
>>>> however unlikely that it should not. Go ahead with the 100MHz probes
>>>> if you get them at a fair price.
>>> Here are some guidelines to determine more exactly what the
>>> interaction between the scope and probe is:
>>> Bandwidth is BW
>>> Risetime is Tr
>>> BW = 0.35/Tr
>>> Tr(overall) = Sqrt(Tr(scope)^2 + Tr(probe)^2)
>>>
```

```
>>> Then if
>>> Scope Tr at 60 MHz = 5.9nS
>>> Probe Tr at 100 MHz = 3.5 nS
>>> Overall Tr = 6.80 nS, making overall -3db bandwidth = 51.4 MHz
>> Though this sounds plausible, and it's thought through,
>> I think the result is mistaken.
>> A 60MHz scope is not a 60 MHz scope only if used with
>>  (say) 3 GHz probes; its a 60 MHz scope if used with the probes as
>> provided or specified by the maker.
>>
>> Brian W
>
> It's not mistaken... in fact, it's well documented.  Here are some
> attributions that elaborate on the effects of a probe on the overall
> bandwidth of a scope/probe combination.
> http://books.google.com/books?
id=xHASd9YksRgC&pg=PA77&lpg=PA77&dq=scope+OR+oscilloscope+
%22equivalent+bandwidth%22+probe&source=bl&ots=CjB4keyul8&sig=cKSDnI9nV3Iwos1KRpP_
3nNjC9s&hl=en&ei=KTwETKKiLMP48Ab57djTDQ&sa=X&oi=book_result&ct=result&resnum=3&ved
=0CCAQ6AEwAg#v=onepage&q=scope%20OR%20oscilloscope%20%22equivalent%20bandwidth%22%
20probe&f=false
>
> http://www.adler-instrumentos.es/imagenes_web/notas_aplicacion/
Fundamentos%20de%20Integridad%20de%20Se%C3%B1al.pdf
> pg 3
>
> http://www.freelists.org/post/si-list/high-speed-test-measurement-equipment,9
>
> http://www.analog.com/library/analogdialogue/cd/vol41n1.pdf  pg 13
>
> As you can see from the documents, the scope and probe bandwidths do
> interact as the RMS sum of the two.  The vertical bandwidth or risetime of
> scopes is specified at the scope's input connector.  If the bandwidth
> specification includes the probe, it will be specified as such.  In those
> cases, the scope's bandwidth will be specified separately, and will be
> higher than the scope/probe combination.
> Vertical bandwidth on many high quality scopes will be described in their
> manuals or spec sheets when using a variety of probes, and will reflect the
> equivalent bandwidth accordingly.
>


From -4395458034797083008
X-Google-Thread: 241b302a50,2a5143fdff0d8100
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 31 May 2010 21:57:06 -0500
Date: Mon, 31 May 2010 21:56:48 -0500
From: brian whatcott <betwys1@sbcglobal.net>
```

Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Probes
References: <Plasmah77.64897f3@radiobanter.com> <3e0ca5b1-6b48-4a8a-aa0b-e0e8de19fb53@40g2000vbr.googlegroups.com> <4C04185C.9010300@nowhere.com>
<iaSdnQuUJsbZtpnRnZ2dnUVZ_tWdnZ2d@giganews.com>
<ZeqdnYYkucdUqZnRnZ2dnUVZ_tmdnZ2d@giganews.com>
<eZ6dnS1leZMKzZnRnZ2dnUVZ_oednZ2d@giganews.com>
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In-Reply-To: <VL2dnRAsto-6ypnRnZ2dnUVZ_o6dnZ2d@giganews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <cqidndmihdif6pnRnZ2dnUVZ_sWdnZ2d@giganews.com>
Lines: 17
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X-Trace: sv3-qkC/
rGR1DXMoAuWJN8NeYAI8nfX6cuWyp2SDB0+QHVL0t2BA9Lmt13K1OcmKqYFyqVGhyjNvvTg0cw1!
b5XOH02SelKyZ1IsBewMNhhwxH3D1/smHD+KBXrYA5X9eebJAj2k5OLUKEdhz5CTZYZOH6iq6m4J
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3760

[Re 60 MHz scope]
>>>>> No. It is 3dB Bandwidth. Degrade will start earlier. You will have
>>>>> lost half power or in voltage around 30% of the signal.

The idea that a 55 MHz sine wave of 5 volt P-P amplitude would only register about 3.6 volts on a 60 MHz scope is an alien idea to me. That would render such a scope all but useless....

I think it is possibly a European style definition of the scope bandwidth as a 3 Db down bandwidth that's causing this debate.

I suggest that in American usage, I would be more likely to expect a 60 MHz sine wave to be not more than 5% down as indicated on a 60 MHz scope with its maker's standard probes.

Brian W

From -9132593564389007795
X-Google-Thread: 241b302a50,2a5143fdff0d8100
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!

```
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 31 May 2010 22:00:18 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Plasmah77.64897f3@radiobanter.com> <3e0ca5b1-6b48-4a8a-aa0b-
e0e8de19fb53@40g2000vbr.googlegroups.com> <4C04185C.9010300@nowhere.com>
<iaSdnQuUJsbZtpnRnZ2dnUVZ_tWdnZ2d@giganews.com>
<ZeqdnYYkucdUqZnRnZ2dnUVZ_tmdnZ2d@giganews.com>
<eZ6dnS1leZMKzZnRnZ2dnUVZ_oednZ2d@giganews.com>
<VL2dnRAsto-6ypnRnZ2dnUVZ_o6dnZ2d@giganews.com>
Subject: Re: Probes
Date: Mon, 31 May 2010 22:00:17 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
Message-ID: <I5ydncwDM4Zf6pnRnZ2dnUVZ_g2dnZ2d@giganews.com>
Lines: 102
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
jdYFt6w0at5Ha+IiNWmEyvIcmtYCZeqQHW967t1JyxePVqsQixSabUqo9jFQBByL2v99y3EhuAEDV6N!
7IzoVY6NQCK0UsUIFSE2a4I+2VuyhY/BFuKGM2vPKhaozVZYEVWaJl0/gqbfkizWoeXgmpXeMS3B
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3761

brian whatcott wrote:
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> components, and I agree with many of your other comments.
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> Dave M wrote:
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>> http://books.google.com/books?
id=xHASd9YksRgC&pg=PA77&lpg=PA77&dq=scope+OR+oscilloscope+
%22equivalent+bandwidth%22+probe&source=bl&ots=CjB4keyul8&sig=cKSDnI9nV3Iwos1KRpP_
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=0CCAQ6AEwAg#v=onepage&q=scope%20OR%20oscilloscope%20%22equivalent%20bandwidth%22%
20probe&f=false
>>
>> http://www.adler-instrumentos.es/imagenes_web/notas_aplicacion/
Fundamentos%20de%20Integridad%20de%20Se%C3%B1al.pdf
>> pg 3
>>
>> http://www.freelists.org/post/si-list/high-speed-test-measurement-equipment,9
>>
>> http://www.analog.com/library/analogdialogue/cd/vol41n1.pdf pg 13
>>
>> As you can see from the documents, the scope and probe bandwidths do
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>> as such. In those cases, the scope's bandwidth will be specified
>> separately, and will be higher than the scope/probe combination.
>> Vertical bandwidth on many high quality scopes will be described in
>> their manuals or spec sheets when using a variety of probes, and
>> will reflect the equivalent bandwidth accordingly.

I'm interested in seeing info on the Tektronix way that proves that I am mistaken. I provided several sources that defend my statements. Did you read the sources that I provided links for? All quite credible sources. Did you do the math, or is your conclusion just an opinion? How would you calculate the combined risetime/bandwidth of a scope/probe combination?

Please don't interpret my questions as being confrontational, I'm genuinely interested in learning if the technique that I used for years in calibration labs was, in fact, correct or totally wrong. The technique that we used was this:
Using a high bandwidth scope, measure its risetime without the probe being connected (scope connected directly to a fast-rise pulse generator).
Connect the probe being calibrated to the scope input, and connect the probe tip directly to the pulse generator output.
Measure the resulting pulse risetime.
Using the formula that I gave previously (rearranged to find the probe's risetime), calculate the probe's risetime and bandwidth.
This method of measuring the performance of a probe worked quite well for the lab and our customers for the years that I was a cal technician (commercial and military).

--
David
dgminala at mediacombb dot net

From 4107036408174262523
X-Google-Thread: 241b302a50,2a5143fdff0d8100
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-02.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <Plasmah77.64897f3@radiobanter.com> <3e0ca5b1-6b48-4a8a-aa0b-e0e8de19fb53@40g2000vbr.googlegroups.com> <4C04185C.9010300@nowhere.com> <iaSdnQuUJsbZtpnRnZ2dnUVZ_tWdnZ2d@giganews.com> <ZeqdnYYkucdUqZnRnZ2dnUVZ_tmdnZ2d@giganews.com> <eZ6dnS1leZMKzZnRnZ2dnUVZ_oednZ2d@giganews.com> <VL2dnRAsto-6ypnRnZ2dnUVZ_o6dnZ2d@giganews.com>

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X-Priority: 3
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
Message-ID: <65%Mn.417046$rq1.266344@en-nntp-02.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Mon, 31 May 2010 20:25:53 -0700
X-Original-Bytes: 3173
Xref: g2news2.google.com rec.radio.amateur.homebrew:3762

"brian whatcott" <betwys1@sbcglobal.net> wrote in message news:cqidndmihdif6pnRnZ2dnUVZ_sWdnZ2d@giganews.com...

> The idea that a 55 MHz sine wave of 5 volt P-P amplitude would only register
> about 3.6 volts on a 60 MHz scope is an alien idea to me.
> That would render such a scope all but useless....

Have you used many older scopes? Effectively the older the scope, the more like that a scope labeled "60MHz" really did mean that the scope itself was 3dB down at that point -- and of course the probe will just make things worse. Things did get blurry over time, with HP and Tek starting to spec scopes based on a combination of the probe and mainframe used ... and perhaps not use 3dB as a reference anymore (all the bandwidth extension tricks they used tended to make the frequency response no longer look like a simple single-pole roll-off, and one could suggest that a 3dB point definition of bandwidth isn't that useful if you're already dropping at, e.g., 12dB or 18dB/octave rather than the expected 6 at that point...). And finally, once scopes started "going digital" in the late '80s and beyond, the response of the scope itself often became a lot closer to a brick-wall rather than the single-dominant-pole roll-off the old analog scopes often saw, at which point -- if you had a good enough probe -- the frequency response at the stated bandwidth might very well be <1dB down (...which is still 10% down in voltage, though!).

> I suggest that in American usage, I would be more likely to expect a
> 60 MHz sine wave to be not more than 5% down as indicated on a 60 MHz scope
> with its maker's standard probes.

If you buy a new scope today, that's very likely the case... but if you get an old boat anchor, it'd be VERY surprising if it were anywhere close to "only" 5% off.

---Joel

```
From 3229029509466012513
X-Google-Thread: 241b302a50,2a5143fdff0d8100
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!
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From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
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     reply-type=response
Content-Transfer-Encoding: 7bit
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
Message-ID: <Ge%Mn.151125$vX7.14812@en-nntp-11.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Mon, 31 May 2010 20:36:04 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:3763

"Dave M" <dgminala4444@mediacombb.net> wrote in message
news:I5ydncwDM4Zf6pnRnZ2dnUVZ_g2dnZ2d@giganews.com...
> I'm genuinely interested in learning if the technique that I used for years
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> risetime), calculate the probe's risetime and bandwidth.
> This method of measuring the performance of a probe worked quite well for
```

> the lab and our customers for the years that I was a cal technician
> (commercial and military).

If all you have available is a pulse generator, this is a decent enough method -- just know that the formula to convert between rise time and bandwidth assumes a single-pole frequency rolloff, which is usually -- but not always -- a reasonable assumption.

A more insightful means of measuring scope bandwidth is to take an RF generator that can produce a repetitive frequency sweep (with a leveled output), have the start of it trigger the scope, and then adjust the timebase settings so that you get, e.g., 10MHz or 100MHz or some other convenient MHz sweep per division. In other words, the scope's display effectively becomes a Bode plot of the system (scope + probe combined) response.

---Joel

From -4443552588464386495
X-Google-Thread: a4a23d5f63,19982fab2fd2676d,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!news-out.readnews.com!transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1272693601@panix.com>
Followup-To: poster
Date: 1 Jun 2010 02:00:02 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 04 Jul 2010 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1275372001@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com (rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1275372002 23052 166.84.1.2 (1 Jun 2010 06:00:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 1 Jun 2010 06:00:02 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
Xref: g2news2.google.com rec.radio.amateur.antenna:18150 rec.radio.amateur.dx:674 rec.radio.amateur.equipment:2245 rec.radio.amateur.homebrew:3764

rec.radio.amateur.misc:5189 rec.radio.amateur.policy:29470
rec.radio.amateur.space:373 rec.radio.info:1558

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

From -9050130115253002264
X-Google-Thread: 241b302a50,2a5143fdff0d8100
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 01 Jun 2010 08:55:45 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Plasmah77.64897f3@radiobanter.com> <3e0ca5b1-6b48-4a8a-aa0b-
e0e8de19fb53@40g2000vbr.googlegroups.com> <4C04185C.9010300@nowhere.com>
<iaSdnQuUJsbZtpnRnZ2dnUVZ_tWdnZ2d@giganews.com>
<ZeqdnYYkucdUqZnRnZ2dnUVZ_tmdnZ2d@giganews.com>
<eZ6dnS1leZMKzZnRnZ2dnUVZ_oednZ2d@giganews.com>
<VL2dnRAsto-6ypnRnZ2dnUVZ_o6dnZ2d@giganews.com>
<I5ydncwDM4Zf6pnRnZ2dnUVZ_g2dnZ2d@giganews.com> <Ge%Mn.151125$vX7.14812@en-
nntp-11.dc1.easynews.com>
Subject: Re: Probes
Date: Tue, 1 Jun 2010 08:55:45 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Response
Message-ID: <j4ydneeTia38jJjRnZ2dnUVZ_judnZ2d@giganews.com>
Lines: 50
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-PF2ROOuVKzboUeQRKprt/kwek1v+H8Pb2W5liD7SpqdsniKp1wpNiVynnmbdZUihB/Mb/
i4f828M6oN!oBr+gwjhkW2CYEgNUiikrHFGZ0G9/PaERztUXxfxUZ69wMQPfmZNMCFAUFJzCdbmgH/
ZZkH+1EOv
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3765

Joel Koltner wrote:
> "Dave M" <dgminala4444@mediacombb.net> wrote in message
> news:I5ydncwDM4Zf6pnRnZ2dnUVZ_g2dnZ2d@giganews.com...
>> I'm genuinely interested in learning if the technique that I used
>> for years in calibration labs was, in fact, correct or totally
>> wrong. The technique that we used was this:
>> Using a high bandwidth scope, measure its risetime without the probe
>> being connected (scope connected directly to a fast-rise pulse
>> generator). Connect the probe being calibrated to the scope input,
>> and connect the probe tip directly to the pulse generator output.
>> Measure the resulting pulse risetime.
>> Using the formula that I gave previously (rearranged to find the
>> probe's risetime), calculate the probe's risetime and bandwidth.

>> This method of measuring the performance of a probe worked quite
>> well for the lab and our customers for the years that I was a cal
>> technician (commercial and military).
>
> If all you have available is a pulse generator, this is a decent
> enough method -- just know that the formula to convert between rise
> time and bandwidth assumes a single-pole frequency rolloff, which is
> usually -- but not always -- a reasonable assumption.
>
> A more insightful means of measuring scope bandwidth is to take an RF
> generator that can produce a repetitive frequency sweep (with a
> leveled output), have the start of it trigger the scope, and then
> adjust the timebase settings so that you get, e.g., 10MHz or 100MHz
> or some other convenient MHz sweep per division. In other words, the
> scope's display effectively becomes a Bode plot of the system (scope
> + probe combined) response.
> ---Joel

Thanks for the elaboration... makes sense. And yes, after wideband leveled generstors became available, we did use them to measure frequency response on scopes, but still relied on the risetime method to characterize probes. The reason for that was that the leveled generators that we had didn't cover the full spectrum of the scopes and probes that we encountered; we had a 30 picosecond risetime pulser that handled everything we saw.

It has been several years since I worked in a cal lab, so the technology has progressed a good deal since. Are there any texts that describe the technique(s) by which the response of any given scope/probe combination can be calculated and verified?   Not that I need to do it any more, just interested in knowing.

--
David
dgminala at mediacombb dot net

From 1677701159941542662
X-Google-Thread: 241b302a50,2a5143fdff0d8100
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 01 Jun 2010 16:45:47 -0500
Date: Tue, 01 Jun 2010 16:45:27 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Probes
References: <Plasmah77.64897f3@radiobanter.com> <3e0ca5b1-6b48-4a8a-aa0b-
e0e8de19fb53@40g2000vbr.googlegroups.com> <4C04185C.9010300@nowhere.com>
<iaSdnQuUJsbZtpnRnZ2dnUVZ_tWdnZ2d@giganews.com>
<ZeqdnYYkucdUqZnRnZ2dnUVZ_tmdnZ2d@giganews.com>
<eZ6dnS1leZMKzZnRnZ2dnUVZ_oednZ2d@giganews.com>
<VL2dnRAsto-6ypnRnZ2dnUVZ_o6dnZ2d@giganews.com>
<I5ydncwDM4Zf6pnRnZ2dnUVZ_g2dnZ2d@giganews.com>
In-Reply-To: <I5ydncwDM4Zf6pnRnZ2dnUVZ_g2dnZ2d@giganews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <UL6dnQw7K9YR4pjRnZ2dnUVZ_vSdnZ2d@giganews.com>
Lines: 55
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Ocrm/
TbEQm3+hYjXdTAQiX+HOHq166DYa6WlBpg5+Ji21WcoEloFramP95Tuqz3GdpZy3apd04oPMpS!
h5WQ6EQLcT53KbWPv8g5QiHOU+t21nky8xEliswIh3g9x+Jc5lou0xdgu29Wvd+UXjHs96pepEqP
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3766

Dave M wrote:
>>> ... Here are some
>>> attributions that elaborate on the effects of a probe on the overall
>>> bandwidth of a scope/probe combination.
>>> http://books.google.com/books?
id=xHASd9YksRgC&pg=PA77&lpg=PA77&dq=scope+OR+oscilloscope+
%22equivalent+bandwidth%22+probe&source=bl&ots=CjB4keyul8&sig=cKSDnI9nV3Iwos1KRpP_
3nNjC9s&hl=en&ei=KTwETKKiLMP48Ab57djTDQ&sa=X&oi=book_result&ct=result&resnum=3&ved
=0CCAQ6AEwAg#v=onepage&q=scope%20OR%20oscilloscope%20%22equivalent%20bandwidth%22%
20probe&f=false
>>>
>>> http://www.adler-instrumentos.es/imagenes_web/notas_aplicacion/
Fundamentos%20de%20Integridad%20de%20Se%C3%B1al.pdf
>>> pg 3
>>>
>>> http://www.freelists.org/post/si-list/high-speed-test-measurement-equipment,9
>>>
>>> http://www.analog.com/library/analogdialogue/cd/vol41n1.pdf pg 13
>>>
>>> As you can see from the documents, the scope and probe bandwidths do
>>> interact as the RMS sum of the two. The vertical bandwidth or
>>> risetime of scopes is specified at the scope's input connector. If
>>> the bandwidth specification includes the probe, it will be specified
>>> as such. In those cases, the scope's bandwidth will be specified
>>> separately, and will be higher than the scope/probe combination.
>>> Vertical bandwidth on many high quality scopes will be described in
>>> their manuals or spec sheets when using a variety of probes, and

>>> will reflect the equivalent bandwidth accordingly.
>
>
> I'm interested in seeing info on the Tektronix way that proves that I am
> mistaken.   I provided several sources that defend my statements. Did you
> read the sources that I provided links for? All quite credible sources.
> Did you do the math, or is your conclusion just an opinion? How would you
> calculate the combined risetime/bandwidth of a scope/probe combination?
>
> Please don't interpret my questions as being confrontational, I'm genuinely
> interested in learning if the technique that I used for years in calibration
> labs was, in fact, correct or totally wrong. The technique that we used was
> this:
> Using a high bandwidth scope, measure its risetime without the probe being
> connected (scope connected directly to a fast-rise pulse generator).
> Connect the probe being calibrated to the scope input, and connect the probe
> tip directly to the pulse generator output.
> Measure the resulting pulse risetime.
> Using the formula that I gave previously (rearranged to find the probe's
> risetime), calculate the probe's risetime and bandwidth.
> This method of measuring the performance of a probe worked quite well for
> the lab and our customers for the years that I was a cal technician
> (commercial and military).
>

I started looking for a reference that I could trust - and I found it in
a Tektronix note - a note that totally supports your position.

Ooops! I was wrong - with a misplaced sense of what one can measure with
Tektronix scopes. Sorry.... I appreciate your level tone though!

http://www.tek.com/Measurement/App_Notes/Technical_Briefs/bw_rt/55_18024_0.pdf

Brian Whatcott Altus OK

From -6732814372670017869
X-Google-Thread: 241b302a50,2a5143fdff0d8100
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!f14g2000vbn.googlegroups.com!not-for-mail
From: Gary <jgboyles@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Probes
Date: Tue, 1 Jun 2010 15:21:27 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <39024837-8c2c-4406-a7b4-4e9aefb9bf4c@f14g2000vbn.googlegroups.com>
References: <Plasmah77.64897f3@radiobanter.com> <3e0ca5b1-6b48-4a8a-aa0b-e0e8de19fb53@40g2000vbr.googlegroups.com>
<4C04185C.9010300@nowhere.com>

```
NNTP-Posting-Host: 205.188.117.19
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1275430887 15246 127.0.0.1 (1 Jun 2010 22:21:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 1 Jun 2010 22:21:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f14g2000vbn.googlegroups.com; posting-host=205.188.117.19;
     posting-account=EDccDAkAAAABP46fNoIwHp5AsVAkR7WJ
User-Agent: G2/1.0
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.2 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-dtc-td03.proxy.aol.com[CDBC7063] (Prism/1.2.1), HTTP/1.1
     cache-dtc-ae15.proxy.aol.com[CDBC7513] (Traffic-Server/6.1.5 [uScM])
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
     Trident/4.0; GTB6.5; SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
     3.5.30729; InfoPath.2; .NET CLR 3.0.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3767

On May 31, 3:13=EF=BF=BDpm, nobody <nob...@nowhere.com> wrote:
> Gary wrote:
> > On May 30, 3:12 pm, Plasmah77 <Plasmah77.6489...@radiobanter.com>
> > wrote:
>
> > The 60 MHZ specification on your
> > scope means its vertical amplifier and display will start to degrade
> > at 60 MHZ or higher in frequency. =EF=BF=BD
>
> No. It is 3dB Bandwidth. Degrade will start earlier. You will have lost
> half power or in voltage around 30% of the signal.
>
> Therefore using a probe with a >60
>
> > MHZ rating will allow you to realize all of your scope's capabilities.
>
> There is also a capacitance specification that should match. It is
> however unlikely that it should not. Go ahead with the 100MHz probes if
> you get them at a fair price.

The question was would a 100 MHZ probe work with a 60 MHZ scope.  The
asker claimed to be a beginner.  I made a general comment about why it
would.  I saw no reason to muddy the waters by talking about half
power points and 3dB bandwidths.  Trying to make it simple.

Gary N4AST


From 1589309467202865885
X-Google-Thread: 241b302a50,2a5143fdff0d8100
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!c22g2000vbb.googlegroups.com!not-for-
```

```
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Probes
Date: Wed, 2 Jun 2010 05:03:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
Message-ID: <2245bedc-f8e4-467d-80a0-7a6c32d62730@c22g2000vbb.googlegroups.com>
References: <Plasmah77.64897f3@radiobanter.com> <3e0ca5b1-6b48-4a8a-aa0b-
e0e8de19fb53@40g2000vbr.googlegroups.com>
     <4C04185C.9010300@nowhere.com>
<iaSdnQuUJsbZtpnRnZ2dnUVZ_tWdnZ2d@giganews.com>
     <ZeqdnYYkucdUqZnRnZ2dnUVZ_tmdnZ2d@giganews.com>
<eZ6dnS1leZMKzZnRnZ2dnUVZ_oednZ2d@giganews.com>
     <VL2dnRAsto-6ypnRnZ2dnUVZ_o6dnZ2d@giganews.com>
<I5ydncwDM4Zf6pnRnZ2dnUVZ_g2dnZ2d@giganews.com>
     <UL6dnQw7K9YR4pjRnZ2dnUVZ_vSdnZ2d@giganews.com>
NNTP-Posting-Host: 99.181.123.129
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1275480220 20537 127.0.0.1 (2 Jun 2010 12:03:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 2 Jun 2010 12:03:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c22g2000vbb.googlegroups.com; posting-host=99.181.123.129;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.2.3)
     Gecko/20100423 Ubuntu/10.04 (lucid) Firefox/3.6.3,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3768

On Jun 1, 5:45=A0pm, brian whatcott
>
> http://www.tek.com/Measurement/App_Notes/Technical_Briefs/bw_rt/55_18...
>
> Brian Whatcott =A0Altus

Hey OM:
Great link there to the Tech article from tek tronics

As  pointed out in that article, a scope is worthless for measuring
voltages. Towit a 60Mhz scope is only good to 10 Mhz, going by their
standards, published, in that article.

73 OM
de n8zu




From 1836083888882563204
```

```
X-Google-Thread: fc2a5,2bbf4999d5b8994d,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 05 Jun 2010 10:38:28 -0500
Date: Sat, 05 Jun 2010 10:36:36 -0500
From: sorry-spammers <""w9wi\"@(sorry-spammers)">
Organization: Ham Radio W9WI
User-Agent: Thunderbird 2.0.0.24 (X11/20100317)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Hummmmmmmmmmmmmmmmmm...
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <aYqdnbVONofk8pfRnZ2dnUVZ_sydnZ2d@earthlink.com>
Lines: 29
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 4.153.71.234
X-Trace: sv3-16J22QU+mdpfhPOwb2O1nYUSij4bdk8/fVHaASniaus1gYzWpVvOYWEuNmHTa6/+BHZ/
pX9Cr1VF419!ODixy+5MOuLPuMxWGMt/b1J2N10FUXyZSm7tIObK2qKSHNeuQCZU2p2KuyrsQg/
7geTtbQqruomC!QJO+wlgcDNQfTZzWMVS37/y0pOQ=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3769
```

I suppose this is more repair than homebrew, but since at least it's in the right spirit I hope you'll indulge me...

Took a lightning hit on the power line about a week ago. The ham antennas were disconnected so the ham gear survived, but some of my computer & consumer gear wasn't so lucky.

In particular, a Sony XDR-F1HD HD Radio tuner.

It actually works fine. However, there's about 600mV of AC between ground and the shield sides of the audio output and antenna input jacks. As you might guess, this leads to a bit of a hum problem!

Suspected leakage across the power transformer (between primary & secondary) but I'm not finding any with an ohmmeter. There's absolutely *nothing* on the primary side of the transformer except the power cord -- no capacitors to ground, nothing like that. Silk-screen on the power supply board does say there's a fuse *inside* the transformer but obviously that's not going to be a source of a ground fault.

I'm confident the fault is in the Sony (and not the audio amplifier or a damaged antenna cable) since if I connect the same audio cables and antenna to the old analog tuner it works fine.

Anyone have any good ideas where to look?

I guess I could:

- Come up with an isolation transformer & just run it that way. (it only draws 13 watts)
- Build up an external power supply. It only needs +5.2 and +10.5V unregulated, and the connection points are silk-screened on the board.
- Live with it & just kick in the high-pass filter. (and use the analog tuner if I want to listen to a program -- the Sony is for DXing..)

--

Doug Smith W9WI
Pleasant View, TN EM66

```
From -3888500279997810569
X-Google-Thread: fc2a5,86c2dffd5e90710e,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder2.cambriumusenet.nl!
feed.tweaknews.nl!192.87.166.28.MISMATCH!tudelft.nl!txtfeed1.tudelft.nl!
feeder.news-service.com!85.214.198.2.MISMATCH!eternal-september.org!.POSTED!not-
for-mail
From: "Bob" <someone@somewhere.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Mohawk 7-A "10 meter" amp schematic needed
Date: Sun, 6 Jun 2010 07:29:22 -0400
Organization: A noiseless patient Spider
Lines: 7
Message-ID: <hug0q5$9jc$1@news.eternal-september.org>
Injection-Date: Sun, 6 Jun 2010 11:29:10 +0000 (UTC)
Injection-Info: mx02.eternal-september.org; posting-host="z5mwaB7sJffY/4BetvpvpA";
     logging-data="9836"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX181tFgKbNGREKaVPIGCjIdv"
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
Cancel-Lock: sha1:4ejWDG628RL8wTzHWEFelPBMcaI=
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.homebrew:3770
```

Thinly (very thinly) disguised CB amp with 6146 driving two 572Bs.
I want to remove 6146 circuitry and convert to 160 meters.
tnx
Bob
kb8tl at arrl dot net

```
From 7232854465019752582
X-Google-Thread: 241b302a50,2bbf4999d5b8994d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!a30g2000yqn.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hummmmmmmmmmmmmmmmmm...
Date: Sun, 6 Jun 2010 08:28:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 28
Message-ID: <cd1356f6-a055-4ecd-b237-e6bc93feb20a@a30g2000yqn.googlegroups.com>
References: <aYqdnbVONofk8pfRnZ2dnUVZ_sydnZ2d@earthlink.com>
NNTP-Posting-Host: 99.71.239.249
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1275838096 31575 127.0.0.1 (6 Jun 2010 15:28:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 6 Jun 2010 15:28:16 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a30g2000yqn.googlegroups.com; posting-host=99.71.239.249;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3474
```

On Jun 5, 11:36=A0am, sorry-spammers <""w9wi\"@(sorry-spammers)"> wrote:
 t
>
> - Live with it & just kick in the high-pass filter. =A0(and use the analo=
g tuner if I want to listen to a program -- the Sony is for DXing..)
>
> --
>
> Doug Smith W9WI
> Pleasant View, TN =A0EM66

Hey OM:

I know you got a screw loose there for sure.
Back in the day I used to make a living repairing Sony product's
All the Techs' in the shop would kill to get their hands on an easy
fix Sony
I fixed many a Sony audio product just by tightening all the chassis's
screws

There was a service flash for that trouble so it was real.

73 OM
de n8zu

From 4914943820861679585
X-Google-Thread: 241b302a50,2bbf4999d5b8994d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!news.mixmin.net!news.albasani.net!not-for-mail
From: No Spam <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hummmmmmmmmmmmmmmmmm...
Date: Sun, 6 Jun 2010 21:19:13 +0000 (UTC)
Organization: albasani.net
Lines: 40
Message-ID: <huh3cg$qfg$1@news.albasani.net>
References: <aYqdnbVONofk8pfRnZ2dnUVZ_sydnZ2d@earthlink.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
X-Trace: news.albasani.net c6dXGCgqj2AZ/ka0pCD/owM4+2Cfc2D3WgJu8rxV/VDMeiDET5/fRZiyNowOCsJ0KOk10qaeazXJkRFN7n9CSb9ZrSmSs4MTf0kRCLfYiOrYXmSkJ7qVVcWldKeLe6cx
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Sun, 6 Jun 2010 21:19:13 +0000 (UTC)
X-User-ID: hm62HjzeTWvOqMvwTqbIzasH11wi79ATWGoaveXMSqk=
Cancel-Lock: sha1:D9KmfQvNBRib3mB1Vd0Lc7M05xk=
X-NNTP-Posting-Host: NeiXJ9xdOZiEXTgn+ud5EXKE4wvPHXZErtNSTdgIfXI=
Xref: g2news2.google.com rec.radio.amateur.homebrew:3772

On Sat, 05 Jun 2010 10:36:36 -0500, sorry-spammers wrote:

> I suppose this is more repair than homebrew, but since at least it's in
> the right spirit I hope you'll indulge me...
>
> Took a lightning hit on the power line about a week ago. The ham
> antennas were disconnected so the ham gear survived, but some of my
> computer & consumer gear wasn't so lucky.
>
> In particular, a Sony XDR-F1HD HD Radio tuner.
>
> It actually works fine. However, there's about 600mV of AC between
> ground and the shield sides of the audio output and antenna input jacks.
> As you might guess, this leads to a bit of a hum problem!
>
> Suspected leakage across the power transformer (between primary &
> secondary) but I'm not finding any with an ohmmeter. There's absolutely

```
> *nothing* on the primary side of the transformer except the power cord
> -- no capacitors to ground, nothing like that.  Silk-screen on the power
> supply board does say there's a fuse *inside* the transformer but
> obviously that's not going to be a source of a ground fault.
>
> I'm confident the fault is in the Sony (and not the audio amplifier or a
> damaged antenna cable) since if I connect the same audio cables and
> antenna to the old analog tuner it works fine.
>
> Anyone have any good ideas where to look?
>
> I guess I could:
>
> - Come up with an isolation transformer & just run it that way.  (it
> only draws 13 watts) - Build up an external power supply.  It only needs
> +5.2 and +10.5V unregulated, and the connection points are silk-screened
> on the board. - Live with it & just kick in the high-pass filter.  (and
> use the analog tuner if I want to listen to a program -- the Sony is for
> DXing

I would suggest temporally swapping out the xformer with something
comparable or remove the xformer from the radio and see if it has leakage
outside the radio.  (assuming it's not a switching supply)


From 1549651774643305789
X-Google-Thread: fc2a5,2bbf4999d5b8994d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!c10g2000yqi.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hummmmmmmmmmmmmmmmmmm...
Date: Sun, 6 Jun 2010 18:57:43 -0700 (PDT)
Organization: http://groups.google.com
Lines: 48
Message-ID: <fdde7827-bfd9-472d-9cfd-eef057f713eb@c10g2000yqi.googlegroups.com>
References: <aYqdnbVONofk8pfRnZ2dnUVZ_sydnZ2d@earthlink.com>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1275875864 26558 127.0.0.1 (7 Jun 2010 01:57:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 7 Jun 2010 01:57:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c10g2000yqi.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3 (.NET CLR 3.5.30729),gzip(gfe)
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:3773

On Jun 5, 11:36=A0am, sorry-spammers <""w9wi\"@(sorry-spammers)"> wrote:
> I suppose this is more repair than homebrew, but since at least it's in t=
he right spirit I hope you'll indulge me...
>
> Took a lightning hit on the power line about a week ago. =A0The ham anten=
nas were disconnected so the ham gear survived, but some of my computer &
> consumer gear wasn't so lucky.
>
> In particular, a Sony XDR-F1HD HD Radio tuner.
>
> It actually works fine. =A0However, there's about 600mV of AC between gro=
und and the shield sides of the audio output and antenna input jacks. =A0As=
 you
> might guess, this leads to a bit of a hum problem!
>
> Suspected leakage across the power transformer (between primary & seconda=
ry) but I'm not finding any with an ohmmeter. =A0There's absolutely *nothin=
g*
> on the primary side of the transformer except the power cord -- no capaci=
tors to ground, nothing like that. =A0Silk-screen on the power supply board
> does say there's a fuse *inside* the transformer but obviously that's not=
 going to be a source of a ground fault.
>
> I'm confident the fault is in the Sony (and not the audio amplifier or a =
damaged antenna cable) since if I connect the same audio cables and antenna
> to the old analog tuner it works fine.
>
> Anyone have any good ideas where to look?
>
> I guess I could:
>
> - Come up with an isolation transformer & just run it that way. =A0(it on=
ly draws 13 watts)
> - Build up an external power supply. =A0It only needs +5.2 and +10.5V unr=
egulated, and the connection points are silk-screened on the board.
> - Live with it & just kick in the high-pass filter. =A0(and use the analo=
g tuner if I want to listen to a program -- the Sony is for DXing..)
>
> --
>
> Doug Smith W9WI
> Pleasant View, TN =A0EM66

First thing I would do is check my cables, sounds like you have an
open ground or a ground loop among other possible problems listed. Why
do this first? Its EZ.

Jimmie

From -9153221670082157730

```
X-Google-Thread: 241b302a50,2bbf4999d5b8994d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!a30g2000yqn.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hummmmmmmmmmmmmmmmmm...
Date: Sun, 6 Jun 2010 18:57:56 -0700 (PDT)
Organization: http://groups.google.com
Lines: 48
Message-ID: <5da3433d-59e4-4797-9bef-cd121ca8d379@a30g2000yqn.googlegroups.com>
References: <aYqdnbVONofk8pfRnZ2dnUVZ_sydnZ2d@earthlink.com>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1275875876 27067 127.0.0.1 (7 Jun 2010 01:57:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 7 Jun 2010 01:57:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a30g2000yqn.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3774

On Jun 5, 11:36=A0am, sorry-spammers <""w9wi\"@(sorry-spammers)"> wrote:
> I suppose this is more repair than homebrew, but since at least it's in t=
he right spirit I hope you'll indulge me...
>
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>
> Suspected leakage across the power transformer (between primary & seconda=
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> on the primary side of the transformer except the power cord -- no capaci=
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> - Live with it & just kick in the high-pass filter. =A0(and use the analo=
g tuner if I want to listen to a program -- the Sony is for DXing..)
>
> --
>
> Doug Smith W9WI
> Pleasant View, TN =A0EM66

First thing I would do is check my cables, sounds like you have an
open ground or a ground loop among other possible problems listed. Why
do this first? Its EZ.

Jimmie



From 5877256295956504334
X-Google-Thread: fc2a5,2bbf4999d5b8994d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news2
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hummmmmmmmmmmmmmmmmm...
Date: Sun, 06 Jun 2010 23:12:34 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 44
Message-ID: <huho3c031de@news2.newsguy.com>
References: <aYqdnbVONofk8pfRnZ2dnUVZ_sydnZ2d@earthlink.com>
<5da3433d-59e4-4797-9bef-cd121ca8d379@a30g2000yqn.googlegroups.com>
NNTP-Posting-Host: p124dda75051b7e553426d9eb669366d425f79f347e220c51.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
In-Reply-To: <5da3433d-59e4-4797-9bef-cd121ca8d379@a30g2000yqn.googlegroups.com>
X-Antivirus: avast! (VPS 100606-1, 06/06/2010), Outbound message
X-Antivirus-Status: Clean
Xref: g2news2.google.com rec.radio.amateur.homebrew:3775
```

JIMMIE wrote:
> On Jun 5, 11:36 am, sorry-spammers <""w9wi\"@(sorry-spammers)"> wrote:
>> I suppose this is more repair than homebrew, but since at least it's in the right spirit I hope you'll indulge me...
>>
>> Took a lightning hit on the power line about a week ago. The ham antennas were disconnected so the ham gear survived, but some of my computer &
>> consumer gear wasn't so lucky.
>>
>> In particular, a Sony XDR-F1HD HD Radio tuner.
>>
>> It actually works fine. However, there's about 600mV of AC between ground and the shield sides of the audio output and antenna input jacks. As you
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>>
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>>
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>> - Live with it & just kick in the high-pass filter. (and use the analog tuner if I want to listen to a program -- the Sony is for DXing..)
>>
>> --
>>
>> Doug Smith W9WI
>> Pleasant View, TN EM66
>
> First thing I would do is check my cables, sounds like you have an
> open ground or a ground loop among other possible problems listed. Why
> do this first? Its EZ.
>
> Jimmie

Between you, me, y'all and the fencepost I'd look for basic PS problems and not focus on the "600mV of AC between ground and the shield sides of the audio output and antenna input jacks".

-Bill

From 7888148909742109807
X-Google-Thread: a4a23d5f63,d2b7e284d3bb3765,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-out.readnews.com!news-xxxfer.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1273212300@panix.com>
Followup-To: poster
Date: 7 Jun 2010 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 10 Jul 2010 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1275890700@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1275890702 21133 166.84.1.2 (7 Jun 2010 06:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 7 Jun 2010 06:05:02 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
X-Original-Bytes: 3546
Xref: g2news1.google.com rec.radio.amateur.antenna:16603 rec.radio.amateur.dx:634 rec.radio.amateur.equipment:2055 rec.radio.amateur.homebrew:3479 rec.radio.amateur.misc:4946 rec.radio.amateur.policy:26559 rec.radio.info:1496

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived

```
at http://www.faqs.org/faqs/radio/personal-intro/ ):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article       |
is that it does not mention newer amateur radio newsgroups created since      |
it was written, including:                                                    |

 rec.radio.amateur.antenna                                                    |
 rec.radio.amateur.boatanchors                                                |
 rec.radio.amateur.dx                                                         |
 rec.radio.amateur.equipment                                                  |
 rec.radio.amateur.homebrew                                                   |
 rec.radio.amateur.moderated                                                  |
 rec.radio.amateur.space                                                      |

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions.  We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.




From -952776113707025544
X-Google-Thread: 241b302a50,2bbf4999d5b8994d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!z8g2000yqz.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hummmmmmmmmmmmmmmmmm...
Date: Mon, 7 Jun 2010 00:00:32 -0700 (PDT)
Organization: http://groups.google.com
Lines: 65
Message-ID: <c0bb394f-3910-4975-a15a-e6b8a9f6082f@z8g2000yqz.googlegroups.com>
References: <aYqdnbVONofk8pfRnZ2dnUVZ_sydnZ2d@earthlink.com>
     <5da3433d-59e4-4797-9bef-cd121ca8d379@a30g2000yqn.googlegroups.com>
     <huho3c031de@news2.newsguy.com>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1275894032 25982 127.0.0.1 (7 Jun 2010 07:00:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 7 Jun 2010 07:00:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z8g2000yqz.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3480

On Jun 6, 11:12=A0pm, Bill M <radioex...@geeeemail.com> wrote:
> JIMMIE wrote:
> > On Jun 5, 11:36 am, sorry-spammers <""w9wi\"@(sorry-spammers)"> wrote:
> >> I suppose this is more repair than homebrew, but since at least it's i=
n the right spirit I hope you'll indulge me...
>
> >> Took a lightning hit on the power line about a week ago. =A0The ham an=
tennas were disconnected so the ham gear survived, but some of my computer =
&
> >> consumer gear wasn't so lucky.
>
> >> In particular, a Sony XDR-F1HD HD Radio tuner.
>
> >> It actually works fine. =A0However, there's about 600mV of AC between =
ground and the shield sides of the audio output and antenna input jacks. =
=A0As you
> >> might guess, this leads to a bit of a hum problem!
>
> >> Suspected leakage across the power transformer (between primary & seco=
ndary) but I'm not finding any with an ohmmeter. =A0There's absolutely *not=
hing*
> >> on the primary side of the transformer except the power cord -- no cap=
acitors to ground, nothing like that. =A0Silk-screen on the power supply bo=
ard
> >> does say there's a fuse *inside* the transformer but obviously that's =
not going to be a source of a ground fault.
>
> >> I'm confident the fault is in the Sony (and not the audio amplifier or=
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> >> to the old analog tuner it works fine.
>
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> >> - Build up an external power supply. =A0It only needs +5.2 and +10.5V =
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> >> - Live with it & just kick in the high-pass filter. =A0(and use the an=
alog tuner if I want to listen to a program -- the Sony is for DXing..)
>
> >> --
>
> >> Doug Smith W9WI
> >> Pleasant View, TN =A0EM66
>
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> > open ground or a ground loop among other possible problems listed. Why
> > do this first? Its EZ.
>
> > Jimmie
>
> =A0 Between you, me, y'all and the fencepost =A0I'd look for basic PS
> problems and not focus on the "600mV of AC between ground and the shield
> sides of the audio output and antenna input jacks".
>
> -Bill

The question is " should these two points be at ground or not. If they
are I would have to best guess that something got popped in the
antenna input.

Jimmie



From -9220629146631767600
X-Google-Thread: fc2a5,2bbf4999d5b8994d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 07 Jun 2010 14:09:02 -0500
From: "Hello.com" <hi@hello..com>
Newsgroups: rec.radio.amateur.homebrew
References: <aYqdnbVONofk8pfRnZ2dnUVZ_sydnZ2d@earthlink.com>
Subject: Re: Hummmmmmmmmmmmmmmmm...
Date: Mon, 7 Jun 2010 14:09:08 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <lLqdnTemqdZT3pDRnZ2dnUVZ_jednZ2d@giganews.com>
Lines: 27
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-3NK3qvAEdlY8Jua/kYQOKxi71/IndwtD4g1KBEKnwC4qGzftdPpTUqdq/
```

wOogsS4OtpSpVKVHb84pKz!p7f/7KVyqGX2k1194mHOs7HMux/
Rifsofq0+iH+MfoPkxV+8HeKgTC8aN9ZI3Evg7mJWsQuPoZI=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3481

"sorry-spammers" <""w9wi\"@(sorry-spammers)"> wrote in message
news:aYqdnbVONofk8pfRnZ2dnUVZ_sydnZ2d@earthlink.com...
>I suppose this is more repair than homebrew, but since at least it's in the
>right spirit I hope you'll indulge me...
>
> Took a lightning hit on the power line about a week ago. The ham antennas
> were disconnected so the ham gear survived, but some of my computer &
> consumer gear wasn't so lucky.

<sinp>

Many PC Board designs incorporate 'thin' foil paths that are intentionally used as fuses... linking an input ground foil group to a power supply foil group is one such usage. The hit may have blown a trace that isn't immediately visible.

I suffered the effects of a near by strike last year. The induced field blew out a myriad of low-level input circuits on everything from wireless phones, to the 1000BT inputs on my server, and 24 port switch, monitors... not the P.S., remote ant tuners, on and on... Didn't loose a single power supply or fuse. As a testament to ICOM engineering my IC-7800, at the time connected to two antennas, suffered no damage. My Elecraft K2, connect to a coax run that terminated at an outdoor antenna switch but was not selected, came through OK too.

From -5472664901413163429
X-Google-Thread: fc2a5,2a5143fdff0d8100
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.brightview.co.uk!news.brightview.co.uk.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 08 Jun 2010 12:45:32 -0500
From: "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <Plasmah77.64897f3@radiobanter.com> <3e0ca5b1-6b48-4a8a-aa0b-e0e8de19fb53@40g2000vbr.googlegroups.com> <4C04185C.9010300@nowhere.com> <iaSdnQuUJsbZtpnRnZ2dnUVZ_tWdnZ2d@giganews.com>

```
<ZeqdnYYkucdUqZnRnZ2dnUVZ_tmdnZ2d@giganews.com>
<eZ6dnS1leZMKzZnRnZ2dnUVZ_oednZ2d@giganews.com>
<VL2dnRAsto-6ypnRnZ2dnUVZ_o6dnZ2d@giganews.com>
<cqidndmihdif6pnRnZ2dnUVZ_sWdnZ2d@giganews.com>
Subject: Re: Probes
Date: Tue, 8 Jun 2010 18:45:35 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <rKOdnQWsQpshHJPRnZ2dnUVZ8qadnZ2d@brightview.co.uk>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-irgN+4syWeujK8FGPD0tDmZD0bx6iJYk9TKzeYY/mvhyDoBc/
sFsMzU1ZibPR2zqXl0JxhpQYgxV+su!ANv1YppbqJ/TqqhKdNovc81P4/
uDo4MvESSwb2f5Omy1yUe85QmU4cbodJdXzIfw3c/EkH8RwtaK!mEgvqqcQ5m5uRldpyEJ/REWyQA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3779

It doesn't matter in which continent you use an oscilloscope it will have
the same specification.  But I do agree that Tektronix are pretty good
scopes.

JOHN

~~~~~~~~~~~~~~~~~~~~~~~~~~
UK broadband from just �6.49/month
                ----   OR   ----
broadband+phone from �17.74/month
[inc. line rental+weekend/evening calls]
                   ------------
see www.wells10000.plus.com for info




From -3756715113815529262
X-Google-Thread: 241b302a50,2bbf4999d5b8994d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!j8g2000yqd.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hummmmmmmmmmmmmmmmmm...
Date: Tue, 8 Jun 2010 20:54:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 48
```

```
Message-ID: <f7c47e23-b355-416f-9902-30205c9d23ce@j8g2000yqd.googlegroups.com>
References: <aYqdnbVONofk8pfRnZ2dnUVZ_sydnZ2d@earthlink.com>
     <lLqdnTemqdZT3pDRnZ2dnUVZ_jednZ2d@giganews.com>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1276055685 24751 127.0.0.1 (9 Jun 2010 03:54:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 9 Jun 2010 03:54:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j8g2000yqd.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3780

On Jun 7, 3:09=A0pm, "Hello.com" <hi@hello..com> wrote:
> "sorry-spammers" <""w9wi\"@(sorry-spammers)"> wrote in message
>
> news:aYqdnbVONofk8pfRnZ2dnUVZ_sydnZ2d@earthlink.com...>I suppose this is =
more repair than homebrew, but since at least it's in the
> >right spirit I hope you'll indulge me...
>
> > Took a lightning hit on the power line about a week ago. =A0The ham ant=
ennas
> > were disconnected so the ham gear survived, but some of my computer &
> > consumer gear wasn't so lucky.
>
> <sinp>
>
> Many PC Board designs incorporate 'thin' foil paths that are intentionall=
y
> used as fuses... =A0linking an input ground foil group to a power supply =
foil
> group is one such usage. =A0The hit may have blown a trace that isn't
> immediately visible.
>
> I suffered the effects of a near by strike last year. =A0The induced fiel=
d
> blew out a myriad of low-level input circuits on everything from wireless
> phones, to the 1000BT inputs on my server, and 24 port switch, monitors..=
.
> not the P.S., remote ant tuners, on and on... =A0Didn't loose a single po=
wer
> supply or fuse. As a testament to ICOM engineering my IC-7800, at the tim=
e
> connected to two antennas, suffered no damage. =A0My Elecraft K2, =A0conn=
ect to
> a coax run that terminated at an outdoor antenna switch but was not
> selected, came through OK too.
```

Lightning came do some pretty strange things to electronic equipment. I once repaired a Radio Shack color computer that had 4 or 5 lines of it data bus vaporized without damaging anything else. After the damaged area was repaired with jumpers the computer worked fine. To me the fact that the innards of this computer survived is as impressive as the service panel that gets blown out of the wall and across the room or the tree that is completely stripped of bark. The damage was done directly beneath the uP chip.

Jimmie

Jimmie

```
From 4721071515981649123
X-Google-Thread: fc2a5,2bbf4999d5b8994d
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!x21g2000yqa.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hummmmmmmmmmmmmmmmmm...
Date: Tue, 8 Jun 2010 20:55:02 -0700 (PDT)
Organization: http://groups.google.com
Lines: 48
Message-ID: <276bfbfb-4545-4fc0-85b6-90ffbcdde1b8@x21g2000yqa.googlegroups.com>
References: <aYqdnbVONofk8pfRnZ2dnUVZ_sydnZ2d@earthlink.com>
     <lLqdnTemqdZT3pDRnZ2dnUVZ_jednZ2d@giganews.com>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1276055702 25361 127.0.0.1 (9 Jun 2010 03:55:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 9 Jun 2010 03:55:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x21g2000yqa.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3484
```

On Jun 7, 3:09=A0pm, "Hello.com" <hi@hello..com> wrote:
> "sorry-spammers" <""w9wi\"@(sorry-spammers)"> wrote in message
>
> news:aYqdnbVONofk8pfRnZ2dnUVZ_sydnZ2d@earthlink.com...>I suppose this is =
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> >right spirit I hope you'll indulge me...
>

> > Took a lightning hit on the power line about a week ago. =A0The ham ant=
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> > were disconnected so the ham gear survived, but some of my computer &
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foil
> group is one such usage. =A0The hit may have blown a trace that isn't
> immediately visible.
>
> I suffered the effects of a near by strike last year. =A0The induced fiel=
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> blew out a myriad of low-level input circuits on everything from wireless
> phones, to the 1000BT inputs on my server, and 24 port switch, monitors..=
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> supply or fuse. As a testament to ICOM engineering my IC-7800, at the tim=
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ect to
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room or the tree that is completely stripped of bark. The damage was
done directly beneath the uP chip.

Jimmie

Jimmie

From -7453063091593799053
X-Google-Thread: 109125,139071e9f422bd47,start
X-Google-NewGroupId: yes
X-Google-Thread: 1027f0,139071e9f422bd47,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,139071e9f422bd47,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid5c019a59a0,gidf42d3319d3,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!postnews.google.com!t34g2000prd.googlegroups.com!not-for-mail
From: xiang chen <chenxiangmei86@gmail.com>
Newsgroups: rec.games.backgammon,rec.autos.makers.honda,rec.radio.amateur.homebrew
Subject: http://www.cntrade09.com discount coach handbags coach and coach class english coach
Date: Thu, 10 Jun 2010 05:35:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 52
Message-ID: <12decdcc-0304-43de-8bcc-0df90c1998f7@t34g2000prd.googlegroups.com>
NNTP-Posting-Host: 121.205.247.150
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1276173328 29369 127.0.0.1 (10 Jun 2010 12:35:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 10 Jun 2010 12:35:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t34g2000prd.googlegroups.com; posting-host=121.205.247.150; posting-account=FsTxnAoAAABrr9pk_YWj69j1S542fM_6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; CIBA; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe)
Xref: g2news2.google.com rec.games.backgammon:5387 rec.autos.makers.honda:7504 rec.radio.amateur.homebrew:3782

http://www.cntrade09.com
coach purses,coach purse,coach bags,coach bag
coach zoe,coach hand,coach company
coach tv dvd,gymnast coach,cheap coach purse
coach brand,coach fashion,coach watches
coach handbags   coach bags
coach tote,coach wristlet,coach handbag
coach wallet,coach outlet,coach outlets
coach purse,coach bags,coach bag,coach leather
coach wallets,coach handbags
coach watch,long distance coach
coach sabrina
my word coach
coach op , best coach
buy coach
coach 09
coach 2
coach ad
coach and
coach download
spanish coach
business coach
coach hk
personal coach
coach handbags   coach bags
coach tote
coach wristlet
coach handbag

coach wallet
coach outlet
coach outlets
cross border coach
coach outlet store
best coach
buy coach
coach 09
coach 2
coach ad
coach and   coach class
discount coach handbags
french coach
coach leah
coach logo
english coach
japanese coach
coach download
coach ds,golf coach,coach bleecker
chinese coach ds,coach mike
my chinese coach ds,air coach
coach outlet store online,coach federation
coach industry,coach bonnie,coach parker
http://www.cntrade09.com

```
From 7422334324971537940
X-Google-Thread: 1027f0,f3663d92311aecee,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,f3663d92311aecee,start
X-Google-NewGroupId: yes
X-Google-Attributes: gidf42d3319d3,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!42g2000prb.googlegroups.com!not-for-
mail
From: cntrade08 <chenlily86@hotmail.com>
Newsgroups: rec.autos.makers.honda,rec.radio.amateur.homebrew
Subject: Air force one shoes <free shipping paypal payment>(
     http://www.cntrade09.com/ )
Date: Mon, 14 Jun 2010 23:32:00 -0700 (PDT)
Organization: http://groups.google.com
Lines: 75
Message-ID: <fcd83c1c-7c13-494c-be4d-718cec50b6f0@42g2000prb.googlegroups.com>
NNTP-Posting-Host: 58.22.148.87
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1276583520 32056 127.0.0.1 (15 Jun 2010 06:32:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 15 Jun 2010 06:32:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 42g2000prb.googlegroups.com; posting-host=58.22.148.87;
     posting-account=imOCVQoAAAAUWEHHGsMxGBADi-TbzLHG
User-Agent: G2/1.0
```

X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     CIBA; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe)
Xref: g2news2.google.com rec.autos.makers.honda:7507
rec.radio.amateur.homebrew:3783

Shox Shoes <free shipping paypal payment>(http:// www.cntrade09.com/)
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nike shox shoe <free shipping paypal payment>(http:// www.cntrade09.com/)
nike shox shoes <free shipping paypal payment>(http://www.cntrade09.com/
)
shox shoe <free shipping paypal payment>(http://www.cntrade09.com/)
LV,coach,chanel boots wholesale <free shipping paypal payment>(
http://www.cntrade09.com/)
air force ones <free shipping paypal payment>(http:// www.cntrade09.com/)
nike trading <free shipping paypal payment>(http://www.cntrade09.com/
)
nike shox <free shipping paypal payment>(http://www.cntrade09.com/)
shox air <free shipping paypal payment>(http://www.cntrade09.com/)
white shoe <free shipping paypal payment>(http:// www.cntrade09.com/
)
nike shoe <free shipping paypal payment>(http://www.cntrade09.com/)
nike air shox <free shipping paypal payment>(http://www.cntrade09.com/)
shox r4 <free shipping paypal payment>(http://www.cntrade09.com/)
tennis shoes <free shipping paypal payment>(http:// www.cntrade09.com/
)
tennis shoe <free shipping paypal payment>(http://www.cntrade09.com/)
basketball shoe <free shipping paypal payment>(http://www.cntrade09.com/
)
jordan shoe <free shipping paypal payment>(http:// www.cntrade09.com/)
nike shox 2 <free shipping paypal payment>(http://www.cntrade09.com/)
nike shox ace <free shipping paypal payment>(http://www.cntrade09.com/)
men's shoe <free shipping paypal payment>(http://www.cntrade09.com/
)
buy shoe <free shipping paypal payment>(http://www.cntrade09.com/)
adidas shoe <free shipping paypal payment>(http://www.cntrade09.com/
)
kids shoe <free shipping paypal payment>(http://www.cntrade09.com/)
buy shoes <free shipping paypal payment>(http://www.cntrade09.com/)
puma shoe <free shipping paypal payment>(http:// www.cntrade09.com/)
converse shoe <free shipping paypal payment>(http://www.cntrade09.com/
)
shoes sale <free shipping paypal payment>(http:// www.cntrade09.com/)
running shoes women <free shipping paypal payment>(http:// www.cntrade09.com/
)
adidas running shoes <free shipping paypal payment>(http://www.cntrade09.com/
)
Footwear <free shipping paypal payment>(http://www.cntrade09.com/)
Paul Smith shoes <free shipping paypal payment>(http://www.cntrade09.com/
)
Jordan shoes <free shipping paypal payment>(http:// www.cntrade09.com/
)
Bape shoes <free shipping paypal payment>(http://www.cntrade09.com/)
Chanel shoes <free shipping paypal payment>(http:// www.cntrade09.com/

)
D&G shoes <free shipping paypal payment>(http://www.cntrade09.com/)
Dior shoes <free shipping paypal payment>(http://www.cntrade09.com/)
ED hardy shoes <free shipping paypal payment>(http://www.cntrade09.com/)
Evisu shoes <free shipping paypal payment>(http:// www.cntrade09.com/)
Fendi shoes <free shipping paypal payment>(http://www.cntrade09.com/
)
Gucci shoes `<free shipping paypal payment>(http://www.cntrade09.com/
)
Hogan shoes <free shipping paypal payment>(http://www.cntrade09.com/
)
Lv shoes <free shipping paypal payment>(http:// www.cntrade09.com/)
Prada shoes <free shipping paypal payment>(http://www.cntrade09.com/
)
Timberland shoes <free shipping paypal payment>(http://www.cntrade09.com/
)
Tous shoes <free shipping paypal payment>(http://www.cntrade09.com/
)
Ice cream shoes <free shipping paypal payment>(http://www.cntrade09.com/
)
Sebago shoes <free shipping paypal payment>(http://www.cntrade09.com/
)
Lacoste shoes <free shipping paypal payment>(http://www.cntrade09.com/)
Air force one shoes <free shipping paypal payment>(http://www.cntrade09.com/
)
TODS shoes <free shipping paypal payment>(http://www.cntrade09.com/)
AF shoes <free shipping paypal payment>(http://www.cntrade09.com/)

From -5056766641127659777
X-Google-Thread: 241b302a50,99dc6056bc465d2,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!FOXVALLEY.NET-a2kHrUvQQWlmc!not-for-mail
Date: Fri, 18 Jun 2010 19:52:15 -0600
From: Jack Schmidling <jack@schmidling.com>
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: The Noon Time Forum
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <3c53f$4c1c22af$4087c807$11124@FOXVALLEY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 17
X-Trace: 3c53f4c1c22afe5226da211124
Xref: g2news1.google.com rec.radio.amateur.homebrew:3487

The Noon Time Forum is a meeting place for hams with an eclectic interest in everything from Amateur Radio to Zoology.

We meet every week day at 12 Noon Chicago time on 3870 AM. Stations run
everything from QRP rice boxes to QRO plate modulated old buzzard rigs.

Net control M-T is Jack, K9ACT and one of several alternates on Friday.

For those out of range or busy at work, we are now streaming live audio
to share our fun with the world. There is also a chat window to share
your comments with the group on the air.

You can access the stream at http://schmidling.com/ntf.htm

Or, click on the link at QRZ.com... K9ACT

73, Jack K9ACT

```
From 7965498912830868712
X-Google-Thread: 109125,a63149d2c84e1d28,start
X-Google-NewGroupId: yes
X-Google-Thread: 1027f0,a63149d2c84e1d28,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,a63149d2c84e1d28,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid5c019a59a0,gidf42d3319d3,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!40g2000pry.googlegroups.com!not-for-
mail
From: xaingmei chen <chenxaing85@gmail.com>
Newsgroups: rec.games.backgammon,rec.autos.makers.honda,rec.radio.amateur.homebrew
Subject: (NIKE,ADIDAS,LV,GUCCI,CHANEL,PRADA,POL... paypal payment wholesale
     all brand shoes(http://www.cntrade09.com/)
Date: Sat, 19 Jun 2010 00:34:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <61e355c1-628d-4e35-aa78-604a674627d3@40g2000pry.googlegroups.com>
NNTP-Posting-Host: 218.86.51.17
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1276932890 25106 127.0.0.1 (19 Jun 2010 07:34:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 19 Jun 2010 07:34:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 40g2000pry.googlegroups.com; posting-host=218.86.51.17;
     posting-account=uL2YdQoAAAAUxrq7lSl5fmR6eFn-HOqe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     CIBA; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe)
Xref: g2news2.google.com rec.games.backgammon:5458 rec.autos.makers.honda:7525
rec.radio.amateur.homebrew:3785
paypal payment wholesale all brand shoes(
http://www.cntrade09.com/) (NIKE,ADIDAS,LV,GUCCI,CHANEL,PRADA,POL...
BOOTS,D&G,DIOR )and so on.
paypal payment wholesale all brand clothing(
http://www.cntrade09.com .com/)(T-
SHIRT,JEANS,JERSEY,HOODIES,JACKETS,...
)and so on .
( http://www.cntrade09.com .com/)
paypal payment all brand
watch(ROLEX,OMEGA,CHANEL,LV,CARTIER,IWC,GUCCI,RADO )and so on.
paypal payment all brand
handbag(LV,GUCCI,CHANEL,PRADA,POLO,COACH,FENDI,CHLOE,BUBERRY,JUICY)
and so on.
paypal payment brand CAP,SHAWL,BELT,WALLET,UNDER WEAR)and so on.

More detail land,address:  ( http://www.cntrade09.com.com/)



From -725320233990539081
X-Google-Thread: 109125,e3eac021cf1469bf,start
X-Google-NewGroupId: yes
X-Google-Thread: 1027f0,e3eac021cf1469bf,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,e3eac021cf1469bf,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid5c019a59a0,gidf42d3319d3,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!6g2000prg.googlegroups.com!not-for-
mail
From: xiang chen <chenxaing86@gmail.com>
Newsgroups: rec.games.backgammon,rec.autos.makers.honda,rec.radio.amateur.homebrew
Subject: Discount Wholesale BOSS Handbag http://www.cntrade09.com/>
Date: Sat, 19 Jun 2010 01:00:18 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <34c40a60-1a1d-454f-9840-4c567f8d7f5a@6g2000prg.googlegroups.com>
NNTP-Posting-Host: 59.58.157.200
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1276934418 2306 127.0.0.1 (19 Jun 2010 08:00:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 19 Jun 2010 08:00:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 6g2000prg.googlegroups.com; posting-host=59.58.157.200;
     posting-account=f6dnuwoAAAA0YjrQYnALrEggFmQj4Pxn
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     CIBA; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe)
Xref: g2news2.google.com rec.games.backgammon:5460 rec.autos.makers.honda:7526
rec.radio.amateur.homebrew:3786

Discount Wholesale BOSS Handbag
```

Discount Wholesale Burberry Handbag <http:// www.cntrade09.com/ >
Discount Wholesale LV Handbag
Discount Wholesale Chanel Handbag <free shipping paypal payment>
Discount Wholesale Handbag <http://www.cntrade09.com/ >
Discount Wholesale Coach Handbag
Discount Wholesale D&G Handbag <http://www.cntrade09.com/ >
Discount Wholesale Dooney&Bourke Handbag
Discount Wholesale ED Hardy Handbag <http://www.cntrade09.com/

Discount Wholesale Fendi Handbag
Discount Wholesale Gucci Handbag <http://www.cntrade09.com/>
Discount Wholesale Hermes Handbag
Discount Wholesale Jimmy Choo Handbag <free shipping paypal payment>
Discount Wholesale Juciy Handbag
Discount Wholesale LV Handbag <http://www.cntrade09.com/>
Discount Wholesale Miumiu Handbag <http://www.cntrade09.com/

Discount Wholesale Prada Handbag
Discount Wholesale Tous Handbag <http://www.cntrade09.com/ >
Discount Wholesale Versace Handbags <free shipping paypal payment>

```
From -3674535329990641578
X-Google-Thread: fc2a5,dc72583df8abda28,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news5
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Coil forms, including National SW-3
Date: Sat, 19 Jun 2010 21:18:19 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 26
Message-ID: <hvjqbn0f8l@news5.newsguy.com>
NNTP-Posting-Host: p58c2a3d9c77e19b2744503fb39ca7d742495e2c65a7b0e43.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
X-Antivirus: avast! (VPS 100619-1, 06/19/2010), Outbound message
X-Antivirus-Status: Clean
Xref: g2news2.google.com rec.radio.amateur.homebrew:3787
```

I'd like to make a plug (pun) for a rather new 'home' vendor. Good guys deserve a 'plug' :)

Western Sierra Radio.

He's making 4-5-6 pin coil forms at good prices and excellent quality.
I was a bit suspicious about the black XXX grade phenolic but I did some testing and its good stuff. Even after soaking up some of my tropical moisture I only see about 30 Megs DCR between pins. That's more than adequate for the intended use and better than the XX grade which I have been using for my own homebrew forms.

Since Jim Fred passed away these have been scarce out in the marketplace.

They are well-machined, the pins are good and tight and the gluing is solid. I'd say they are a notch up in overall quality from Jim's forms.

Anyway, if you need plug-in coil forms here's the website:

http://www.westernsierraradio.com

(no affiliation, just a satisfied customer)

-Bill

```
From 9061983078098817301
X-Google-Thread: fc2a5,81645cf1aa05e8b8,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe11.iad.POSTED!9523e8de!not-for-mail
Reply-To: "Alfred Lorona" <w6wqc@dslextreme.com>
From: "Alfred Lorona" <w6wqc@dslextreme.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: where to sell?
Lines: 5
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18197
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18197
X-Antivirus: avast! (VPS 100620-1, 06/20/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <1fxTn.17205$3y2.17017@newsfe11.iad>
X-Complaints-To: abuse2@dslextreme.com
```

NNTP-Posting-Date: Sun, 20 Jun 2010 23:11:57 UTC
Organization: DSL Extreme
Date: Sun, 20 Jun 2010 16:12:27 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:3788

What is the best newsgroup/reflector, etc., in which to list older HP test equipment for sale? Tried eham and ebay but could not find a proper place in which to enter.

From -2373746721156077O9
X-Google-Thread: fc2a5,2a5143fdff0d8100
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe18.iad.POSTED!7564ea0f!not-for-mail
From: "Pete Bertini" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Plasmah77.64897f3@radiobanter.com>
<hu09d3$bg68$1@tr22n12.aset.psu.edu>
Subject: Re: Probes
Lines: 29
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 100621-0, 06/21/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <0fTTn.107705$_84.33262@newsfe18.iad>
NNTP-Posting-Host: 68.229.79.166
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe18.iad 1277165628 68.229.79.166 (Tue, 22 Jun 2010 00:13:48 UTC)
NNTP-Posting-Date: Tue, 22 Jun 2010 00:13:48 UTC
Organization: Cox
Date: Mon, 21 Jun 2010 20:13:30 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:3492

"Bob Spooner" <rls19@psu.edu> wrote in message
news:hu09d3$bg68$1@tr22n12.aset.psu.edu...
>
> "Plasmah77" <Plasmah77.64897f3@radiobanter.com> wrote in message
> news:Plasmah77.64897f3@radiobanter.com...
>>
>> I need to buy a probe for my oscilloscope which is 60 MHZ.
>>
>> My question is can I buy a probe that rated 100 MHZ or must I make sure
>> it is rated 60 MHZ the same as my system?

```
>>
>> Thanks
>>
>>
>>
>>
>> --
>> Plasmah77
>
> You can buy a probe with a higher frequency rating than your scope has and
> it will work fine, it just will be more expensive.
> Regards,
> Bob
```

Actually, it will also work "better."

Pete

```
From -3155895285428830495
X-Google-Thread: fc2a5,81645cf1aa05e8b8
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe18.iad.POSTED!7564ea0f!not-for-mail
From: "Pete Bertini" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1fxTn.17205$3y2.17017@newsfe11.iad>
Subject: Re: where to sell?
Lines: 14
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 100621-0, 06/21/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <LiTTn.107706$_84.45832@newsfe18.iad>
NNTP-Posting-Host: 68.229.79.166
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe18.iad 1277165867 68.229.79.166 (Tue, 22 Jun 2010 00:17:47 UTC)
NNTP-Posting-Date: Tue, 22 Jun 2010 00:17:47 UTC
Organization: Cox
Date: Mon, 21 Jun 2010 20:17:26 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:3493
```

http://swap.qth.com/c_test.php

I'd be interested in seeing your list of HP stuff.

Pete

"Alfred Lorona" <w6wqc@dslextreme.com> wrote in message
news:1fxTn.17205$3y2.17017@newsfe11.iad...
>
> What is the best newsgroup/reflector, etc., in which to list older HP
> test equipment for sale? Tried eham and ebay but could not find a proper
> place in which to enter.

```
From 8248498871861345266
X-Google-Thread: fc2a5,67d2ea8dd84170b8
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe14.iad.POSTED!7564ea0f!not-for-mail
From: "Pete Bertini" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References:  <dspurg7310.61727c5@radiobanter.com>
<dspurg7310.619cac4@radiobanter.com>
Subject: Re: Build A Repeater
Lines: 29
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 100622-1, 06/22/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <WW8Un.30770$%u7.1434@newsfe14.iad>
NNTP-Posting-Host: 68.229.79.166
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe14.iad 1277238070 68.229.79.166 (Tue, 22 Jun 2010 20:21:10 UTC)
NNTP-Posting-Date: Tue, 22 Jun 2010 20:21:10 UTC
Organization: Cox
Date: Tue, 22 Jun 2010 16:20:49 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:3791
```

"dspurg7310" <dspurg7310.619cac4@radiobanter.com> wrote in message
news:dspurg7310.619cac4@radiobanter.com...
>
> Wow, thanks everyone! That's a lot of information to go through! lol
> Being that I am so new to this though, I was hoping maybe someone would
> have a simple way to make this work and have a diagram and instructions
> on how to accomplish this task the easiest but most effective way. Keep
> in mind, I am new, so lots of detail would be great! As I learn more
> about electronics and circuits, I will keep a lot of this information
> you have given me as reference and hopefully learn a lot! Thanks

> again!
>
> -David.
>
>
Basic repeater controllers are cheap these days.
I'm using a CAT-1000 on my 2 meter machine.
The biggest problem you will need to overcome
is receiver desens when the transmitter is keyed.

Unfortunately that takes a lot of horizontal real
estate to obtain satisfactory isolation between the RX and TX
antennas. The best way is to use a good quality duplexer on a
single antenna, but now your talking about a major expense.

Pete

```
From 840674022027959846
X-Google-Thread: fc2a5,67d2ea8dd84170b8
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe16.iad.POSTED!7564ea0f!not-for-mail
From: "Pete Bertini" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References:  <dspurg7310.61727c5@radiobanter.com>
<dspurg7310.619cac4@radiobanter.com> <WW8Un.30770$%u7.1434@newsfe14.iad>
Subject: Re: Build A Repeater
Lines: 4
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 100622-1, 06/22/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <Jq9Un.3907$kn1.2970@newsfe16.iad>
NNTP-Posting-Host: 68.229.79.166
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe16.iad 1277240105 68.229.79.166 (Tue, 22 Jun 2010 20:55:05 UTC)
NNTP-Posting-Date: Tue, 22 Jun 2010 20:55:05 UTC
Organization: Cox
Date: Tue, 22 Jun 2010 16:54:41 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:3792
```

I really need to clean out the old posts from my local cache...

```
From 3051933235931887724
X-Google-Thread: fc2a5,5537a98dce74a71a,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r27g2000yqb.googlegroups.com!not-for-
mail
From: cntrade08 <chenlily86@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: nike shoes nike retro shoes nike jordan basketball shoes nike running
     ....
Date: Fri, 25 Jun 2010 06:51:17 -0700 (PDT)
Organization: http://groups.google.com
Lines: 38
Message-ID: <50a14edc-736a-479c-81fb-90a432012f12@r27g2000yqb.googlegroups.com>
NNTP-Posting-Host: 59.58.156.185
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1277473877 30452 127.0.0.1 (25 Jun 2010 13:51:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 25 Jun 2010 13:51:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r27g2000yqb.googlegroups.com; posting-host=59.58.156.185;
     posting-account=imOCVQoAAAAUWEHHGsMxGBADi-TbzLHG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     CIBA; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3793

I Just found a great site with lots of lovely and fashion shoe clips,
just to share with you here, see my signature.
Find more shoe flower clip, leather flower on www.cntrade09.com
Gucci leather shoes - Gucci sandals - Polo shoes - BALLY shoes -
bikkembergs shoes - BVRBERRY sandals - CL miumiu shoes - CL sandals -
COCAH boots - COLE HAAN shoes - DG shoes - Dior shoes - FENDI shoes -
HOGAN shoes - LOUIS VUITTON sandals - LV shoes - LV slippers - MUNICH
shoes - PRADA shoes - TODS shoes - Chanel sandals - TORY BURCH shoes
Sneaker, Shoes - Air Jordan Shoes - Jordan high heels - Air max shoes
- Nike shox shoes - Air force one shoes - Nike dunk shoes - vibram
shoes Clothes - Men's jeans - women's jeans - Men's Shorts - women's
shorts - Men's T-shirts - women's T-shirts Thai version of soccer
football clothing - Club - National team Football clothes series -
Soccer long sleeve suit - 2010 Soccer World Cup National team -
Football Peripherals - football clothes kids - Club - National team
Air max shoes - Air Max 1 Premium KID Products - T-shirts Hair
straightener,Hair curler - GHD - CHI Handbags ,wallets - women's
handbags - men's handbags
website: http://www.cntrade09.com
Discount Nike Air Max Tn 6 Supply (www.cntrade09.com )
Discount Nike Shox NZ Shoes Supply (www.cntrade09.com )
Discount Nike Shox OZ Sale (www.cntrade09.com )
Discount Nike Shox TL Store (www.cntrade09.com )
Discount Nike Shox TL 2 Shoes Store (www.cntrade09.com )
Discount Nike Shox TL 3 Distributor (www.cntrade09.com )
Discount Nike Shox Bmw Shoes Distributor (www.cntrade09.com )
Discount Nike Shox Elite Shoes Manufacturer
(www.cntrade09.com )
Discount Nike Shox Monster Manufacturer (www.cntrade09.com )
Discount Nike Shox R4 Running Shoes (www.cntrade09.com )
Discount Nike Shox R5 Mens Shoes (www.cntrade09.com )
Discount Nike Shox Ride Womens Shoes (www.cntrade09.com )
Discount Nike Shox Rival Shoes Wholesaler (www.cntrade09.com )
Discount Nike Shox Energia Wholesaler (www.cntrade09.com )
Discount Nike Shox LV Sneaker (www.cntrade09.com )
Discount Nike Shox Turbo Suppliers (www.cntrade09.com )
Discount Nike Shox Classic Shoes Suppliers
(www.cntrade09.com )
```

```
From -3652797996847466952
X-Google-Thread: fc2a5,448c0f5884bb2bca,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!t5g2000prd.googlegroups.com!not-for-
mail
From: bgfbfjgg ojdhdsd <uijsbhsbchsv@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOT ROMANCE
Date: Sat, 26 Jun 2010 01:14:25 -0700 (PDT)
Organization: http://groups.google.com
Lines: 20
Message-ID: <a31d00d6-b0d8-49a0-9567-46968a98c1d1@t5g2000prd.googlegroups.com>
NNTP-Posting-Host: 117.199.241.27
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1277540065 5490 127.0.0.1 (26 Jun 2010 08:14:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 26 Jun 2010 08:14:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t5g2000prd.googlegroups.com; posting-host=117.199.241.27;
     posting-account=VkOAtQoAAACEcOLC5-eHi1eJjZH4zy38
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.4)
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Xref: g2news2.google.com rec.radio.amateur.homebrew:3794
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for jobs   http://jobsjackpot.blogspot.com/

hot lip kiss1
http://hotimagesandvideos.blogspot.com/2010/04/hot-lip-kiss1.html
hot hug
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http://hotimagesandvideos.blogspot.com/2010/04/hot-hug.html
super hot kiss
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one lip kiss
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super navel kiss
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hot boobs kiss
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FOR MORE PHOTOS http://hotphotos.co.in/

From 4473222266012296237
X-Google-Thread: fc2a5,bcd236c1b235ca80
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
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NNTP-Posting-Date: Mon, 28 Jun 2010 07:23:44 -0500
Date: Mon, 28 Jun 2010 05:23:42 -0700
From: rL@somis.org (�R. Measures. AG6K)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna advice?
Message-ID: <rL-2806100523420001@10.0.1.7>
References: <l9kqm.107$tG1.88@newsfe22.iad>
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Lines: 38
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
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properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3795

In article <l9kqm.107$tG1.88@newsfe22.iad>, " Ron" <ronnclair@yahoo.com> wrote:

>Hi
>
>I have a 50 ft tower just ready to throw up something to operate.
>
>Cost is the problem but I have a lot of parts to build. I want to put up a
>dipole (I have a manual all band tuner) and my question is should feed it
>with ladder line or feed it with coax and then run each leg about 68 ft .

>
>Second idea is I have an old aluminum omni antenna that used to have 3 traps
>within it, however at that height it will come down quickly as this antenna
>is meant to be on the ground (no ground planes) so I want to make this omni
>as long as practically possible and tune it to utilize it as best possible.
>
>Any suggestions? This is really all I have to work with. Only want to climb
>this thing a couple times and hope its good for the winter.

� RON -- I would install a pulley on a short arm at the top of the tower so that I could rig a halyard to raise and lower the middle of an inverted-V antenna wire.   One end of the wire is the feed point (fed against gnd) and the unfed end has an insulator and a tie off to a point at least 7' above ground.   The feed point Z can be up to several kilo-ohms, so an L-network is used to match the feed Z to 50-ohms. A remote controlled L-network is a good way to go.   When this antenna is a half-wave, it's called a Hertz antenna and it acts like a plain-vanilla halfwave inverted V dipole -- but with the advantage that it can be tuned to work on any frequency for which the wire length is at least 0.2 wavelengths.
  - notes - Hertz antennas have an advantage in the Winter since the feedline is not up in the air. /// The most durable antenna wire is braided phosphor bronze, #22 will easily carry 1500W. /// when viewed from above the wire must be pretty much is a straight line and not fold back on itself.
------Rich, AG6K

--
R.L. Measures. 805-386-3734, www.somis.org

From -3523245924965713830
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NNTP-Posting-Date: Mon, 28 Jun 2010 09:39:23 -0500
Date: Mon, 28 Jun 2010 15:39:21 +0100
From: highlandham <highlandham.nospam@rfburns.eu>
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MIME-Version: 1.0
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Subject: Re: Antenna advice?
References: <l9kqm.107$tG1.88@newsfe22.iad> <rL-2806100523420001@10.0.1.7>
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Lines: 41

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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3499

On 28/06/10 13:23, •R. Measures. AG6K wrote:
> In article<l9kqm.107$tG1.88@newsfe22.iad>, " Ron"<ronnclair@yahoo.com> wrote:
>
>> Hi
>>
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>>
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>> dipole (I have a manual all band tuner) and my question is should feed it
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> • RON -- I would install a pulley on a short arm at the top of the tower
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> back on itself.
> ------Rich, AG6K>
===================
Tnx Rich for the above useful advice, which I have filed.

Frank   GM0CSZ / KN6WH

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From -1289968972784252649
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Date: Mon, 28 Jun 2010 07:50:34 -0700
From: rL@somis.org (�R. Measures. AG6K)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna advice?
Message-ID: <rL-2806100750340001@10.0.1.7>
References: <l9kqm.107$tG1.88@newsfe22.iad> <rL-2806100523420001@10.0.1.7>
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3500

In article <YaCdneXvAd-GKbXRnZ2dnUVZ7qCdnZ2d@pipex.net>, highlandham
<highlandham.nospam@rfburns.eu> wrote:

>On 28/06/10 13:23, •R. Measures. AG6K wrote:
>> In article<l9kqm.107$tG1.88@newsfe22.iad>, " Ron"<ronnclair@yahoo.com>
wrote:
>>
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>>>
```

```
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>> wavelengths.
>>    - notes - Hertz antennas have an advantage in the Winter since the
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>> ------Rich, AG6K>
>===================
>Tnx Rich for the above useful advice, which I have filed.

�  ur welcome Ron
>
>Frank    GM0CSZ / KN6WH

--
Richard L. Measures. 805-386-3734,AG6K, www.somis.org


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X-Google-Thread: 1027f0,240cba66e1a02447,start
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From: cntrade08 <chenlily85@hotmail.com>
Newsgroups: rec.autos.makers.honda,rec.radio.amateur.homebrew
Subject: Shox TL3 women shoes paypal wholesale on http://www.cntrade09.com/
Date: Mon, 28 Jun 2010 23:43:12 -0700 (PDT)
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Xref: g2news2.google.com rec.autos.makers.honda:7534
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  NIKE man shoes paypal wholesale on http://www.cntrade09.com/
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  Air Force One

  AF1 25th man shoes paypal wholesale on http://www.cntrade09.com/
  AF1 25th women
  AF1 man shoes paypal wholesale on http://www.cntrade09.com/
  AF1 women shoes paypal wholesale on http://www.cntrade09.com/

       PUMA

  PUMA women shoes paypal wholesale on http://www.cntrade09.com/
  PUMA man shoes paypal wholesale on http://www.cntrade09.com/

       Shox

  Shox NZ man shoes paypal wholesale on http://www.cntrade09.com/
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  Shox R4 women
  Shox R3 man shoes paypal wholesale on http://www.cntrade09.com/
  Shox R3 women
  Shox R5 man shoes paypal wholesale on http://www.cntrade09.com/
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       Prada

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  Prada man
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       Timberland

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  Timberland women

       converse

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converse women

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Date: Wed, 30 Jun 2010 10:23:03 -0700
From: rL@somis.org (� R. L. Measures.)
Newsgroups: rec.radio.amateur.homebrew
Subject: Parasitic Oscillation
Message-ID: <rL-3006101023030001@10.0.1.7>
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3502

Even though it does not appear on the schematic diagram, every tube-type HF amplifier has a resonant circuit in its anode circuitry that resonates somewhere in the VHF region. This called a parasitic resonance. Whenever the DC anode current changes, the parasitic circuit rings - much like a struck bell and generates a smallish damped wave signal at the VHF resonance point. - note - this is the same principle that enabled spark transmtters to produce RF from a DC source.

Since all tubes have feedback C between the output (anode) and the input (cathode for cathode-driven and grid for grid driven), the damped-wave VHF signal is amplified - whereupon some of the amplified signal can be fedback again and re-amplified -- resulting in oscillation. Because tube gain is pettty much tube-transconductance x the resistive load (RL) on the anode, one way to reduce the chance of VHF oscillation is to artifically reduce the VHF gain of the tube by lowering the VHF-RL presented to the anode by the parasitic resonance. This is done by decreasing the VHF-Q of the parasitic resonance circuit. In other words, to decrease Q, increase R. Traditionally this has been done by winding a Cu wire coil around a carbon-comp resistor and soldering the coil in parallel with the resistor. In a typical 2. 3-500Z amplifier this configuration produces a Q of c. 5 at 100MHz. Misfortunately a Q of 5 is not quite low enough to reduce VHF gain enough so that oscillation can not be sustained It apparently takes a Q of 2 at 100MHz to achieve

acceptable VHF stability. One way to decrease Q involves exchanging the highly-conductive Cu wire for highly-resistive Ni-Cr wire   This simple change results in a Q of c. 2 at 100MHz as measured on a HP 4191A Z-analyzer.   By using two Ni-Cr VHF suppressors per 2-500z, Q can be further reduced to c. 1.5.
- end

--
Richard L. Measures. 805-386-3734,AG6K, www.somis.org

```
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From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP 5245L Counter Oscillator adjust?
Date: Sat, 01 May 2010 19:56:12 -0400
Organization: Aioe.org NNTP Server
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Xref: g2news2.google.com rec.radio.amateur.homebrew:3698
```

In article <fmmck-9B9D2F.16074301052010@5ad64b5e.bb.sky.com>,
 Fred McKenzie <fmmck@aol.com> wrote:

> It turned out that there was an open thermal fuse in the supply line
> inside the crystal oven. It was a plug-in device about the size of a
> half watt resistor, maybe smaller. There were two wire-sockets that its
> leads plugged into.

I dug out my notes to find out the specifics. My counter is an HP 5334B with Option 1, the high stability oscillator. The oscillator is one of the HP 10811 series. The original thermal fuse, F1, was rated for 108 degrees C. HP revised the part to one rated for 115 degrees C, part number 2110-0617 (10811-80003).

The Radio Shack thermal fuse was 270-1322A, rated for 128 degrees C. There is also an NTE Electronics NTE8115, "Thermal Cut-Off", rated for 117 degrees C. Either is larger than the HP part, and is a tight fit.

I wrapped them in electrical tape to protect against short circuits. When soldering to the high-value resistors, I clamped the fuse leads in a pair of pliers held with rubber bands.

Of course this may not apply to your counter if it doesn't have the crystal oven!

Fred
K4DII

```
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Date: Sun, 02 May 2010 00:56:46 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3699
```

Fred McKenzie wrote:
> In article <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net>,
> Scott <acepilotREMOVE@bloomer.net> wrote:
>
>> I measure the signal coming out the back of the counter
>> (with another counter) at 10.000066 MHz. I adjusted the "coarse tune"
>> adjustment on the back of the unit and this is as close as it gets to
>> 10.000000 MHz, so I assume there must be some other adjustment

>> somewhere.
>
> Scott-
>
> I have a different HP counter that had a similar problem when I got it.
> There was a capacitor adjustment in the crystal oven, but it did not
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>
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> inside the crystal oven. It was a plug-in device about the size of a
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> leads plugged into.
>
> I managed to buy the last thermal fuse HP had in stock at the time.
> Before it arrived, I had fabricated replacements using a thermal fuse
> from Radio Shack, wired in parallel with a high value resistor which had
> the correct lead diameter to plug into the wire sockets.
>
> Using a rubidium oscillator purchased on E-Bay, I aligned the repaired
> oscillator fairly accurately using an oscilloscope. After several
> years, it seems to still be within a fraction of one Hz!
>
> It turns out that this is a common problem. I wrote it up and sent it
> to QST for their Hints & Kinks several years back. Since then, one of
> the HP designers of the oscillator posted a comment that the thermal
> fuse wasn't really needed, since the heating element shouldn't cause any
> damage if left on continuously. Even so, I feel better with the thermal
> fuse installed!
>
> Fred
> K4DII

Thanks Fred! I haven't had time to dig into it yet as I'm out playing
on 10 GHz this weekend. Fortunately, I have a second 5245L for
comparisons. I did find the capacitor on the oven as you mention, but
it did not have enough range as you noted. If the heater is working,
does the enclosure get warm? Seems to me that as I was feeling around,
it was ice cold on the outside. Maybe we're onto something here!

Scott
N0EDV

From -102974230883419499
X-Google-Thread: 241b302a50,837529dfd5a58da9
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 01 May 2010 19:58:54 -0500
Date: Sun, 02 May 2010 00:58:54 +0000

From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP 5245L Counter Oscillator adjust?
References: <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net>
<fmmck-9B9D2F.16074301052010@5ad64b5e.bb.sky.com>
<fmmck-9A9A6D.19561101052010@5ad64b5e.bb.sky.com>
In-Reply-To: <fmmck-9A9A6D.19561101052010@5ad64b5e.bb.sky.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <_oedneMGx6fSU0HWnZ2dnUVZ_qoAAAAA@bright.net>
Lines: 34
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-6iazhysoY6GgMSFx4FpP5mDg/BMiayOm91GuLLTG2YnYm64MClWMxMkdlhVl8//
kTgQf4naZx3hcOgf!fRiJYgtaOt7mHcdvznFWo8Go6QwQm45yUClR4Qv64bGRed+F7axHNTtbjIwd/
FvmgH79D2eFOJG5!DPeRAoob/w==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3700

Fred McKenzie wrote:
> In article <fmmck-9B9D2F.16074301052010@5ad64b5e.bb.sky.com>,
> Fred McKenzie <fmmck@aol.com> wrote:
>
>> It turned out that there was an open thermal fuse in the supply line
>> inside the crystal oven. It was a plug-in device about the size of a
>> half watt resistor, maybe smaller. There were two wire-sockets that its
>> leads plugged into.
>
> I dug out my notes to find out the specifics. My counter is an HP 5334B
> with Option 1, the high stability oscillator. The oscillator is one of
> the HP 10811 series. The original thermal fuse, F1, was rated for 108
> degrees C. HP revised the part to one rated for 115 degrees C, part
> number 2110-0617 (10811-80003).
>
> The Radio Shack thermal fuse was 270-1322A, rated for 128 degrees C.
> There is also an NTE Electronics NTE8115, "Thermal Cut-Off", rated for
> 117 degrees C. Either is larger than the HP part, and is a tight fit.
> I wrapped them in electrical tape to protect against short circuits.
> When soldering to the high-value resistors, I clamped the fuse leads in
> a pair of pliers held with rubber bands.
>
> Of course this may not apply to your counter if it doesn't have the
> crystal oven!
>
> Fred
> K4DII

Yes, mine has the oven (and the high stability Oscillator option). I've

gotten some good leads on this problem, so when I get a bit more time,
I'll rip into it! Thanks again!!

Scott
N0EDV

```
From -7969515608978998125
X-Google-Thread: 241b302a50,3512e277772a9620
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g5g2000pre.googlegroups.com!not-for-
mail
From: Stuart Longland VK4MSL <me@vk4msl.yi.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CB telephone
Date: Sat, 1 May 2010 17:59:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 42
Message-ID: <a556d477-1e0b-4831-96cb-c584a6f31526@g5g2000pre.googlegroups.com>
References: <Jmorgan12003.61d6ae3@radiobanter.com>
NNTP-Posting-Host: 203.94.56.252
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1272761961 4584 127.0.0.1 (2 May 2010 00:59:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 2 May 2010 00:59:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g5g2000pre.googlegroups.com; posting-host=203.94.56.252;
     posting-account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
X-HTTP-Via: 1.1 www.longlandclan.yi.org (squid/3.0.STABLE19)
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux mips64; en-US; rv:1.9.0.11)
     Gecko/2009061212 Iceweasel/3.0.9 (Debian-3.0.9-1),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3702
```

On Apr 28, 10:04=A0am, Jmorgan12003
<Jmorgan12003.61d6...@radiobanter.com> wrote:
> Hey everyone! =A0First time poster here. =A0
>
> I was wanting to convert a CB radio into a telephone. =A0I don't want to
> use a patch, just replace the CB's innards with telephone so I can use
> the CB in place of my current phone. =A0I know dialing would be difficult
> but I can always use one of the other phones for that. =A0Basically, I
> figure I can use the on/off toggle (or another toggle) to pick up the
> line, use the mic as usual, etc. =A0I do a lot of work from home and I
> thought it would be pretty cool to be able to use an old CB with the
> added bonus of not having my voice transmit when I'm holding the PTT
> button so clients, co-workers, etc. won't hear me when I laugh at the
> dog or something, lol.

By the sounds of things, a telephone with a mute button is really what you're after. A lot of cordless phones with headset jacks have such a button.

Alternatively, have you considered a voice modem connected to a computer, and just plug a headset into that? Some modems can act as a telephone when fed the right AT commands -- to mute, just unplug the microphone, or wire in a series switch.

The difficulty you may strike using a CB microphone on the telephone is largely due to most phones (around here at least) use an electret type microphone capsule, which has different characteristics to the dynamic microphones typically used in CB microphones. There are circuits for interfacing a dynamic-type microphone to a circuit that uses an electret microphone -- such as computer sound cards, this is the sort of thing you'd have to look into.

In addition, you'll also want to check that what you propose to do is legal. Yes, there's a high probability that if you do everything right (technical sense) then no one will notice and you'll get away with it, but this is dependant on the local laws and authorities in your area, some of whom may be more proactive in looking for and acting upon such activities.

Nostalgia aside, I really do think you need to consider whether this is *really* necessary, or if there's another (perhaps better/easier) way to go about doing things.

From 9157842628671182797
X-Google-Thread: 241b302a50,1b8d7a31524c81d1
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!n37g2000prc.googlegroups.com!not-for-mail
From: Stuart Longland VK4MSL <me@vk4msl.yi.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Why was my post removed?
Date: Sat, 1 May 2010 18:05:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <7fc9cc9b-0af5-4b28-bd64-1075a8514620@n37g2000prc.googlegroups.com>
References: <Jmorgan12003.61fb982@radiobanter.com>
NNTP-Posting-Host: 203.94.56.252
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1272762346 28791 127.0.0.1 (2 May 2010 01:05:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 2 May 2010 01:05:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n37g2000prc.googlegroups.com; posting-host=203.94.56.252;

posting-account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
X-HTTP-Via: 1.1 www.longlandclan.yi.org (squid/3.0.STABLE19)
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux mips64; en-US; rv:1.9.0.11) Gecko/2009061212 Iceweasel/3.0.9 (Debian-3.0.9-1),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3703

On Apr 30, 5:55=A0am, Jmorgan12003 <Jmorgan12003.61fb...@radiobanter.com> wrote:

> I posted a simple enough question about converting a cb into a telephone
> and it's been removed. =A0Anyone know why?
>
> --
> Jmorgan12003

It's still visible on Google Groups where I read, and replied to, your post. It's worth pointing out, as others have, that this really isn't an amateur homebrew discussion as such, but rather one relating to microphone interfacing which is slightly offtopic.

Nevertheless, you'll find your query and my response here:
http://groups.google.com/group/rec.radio.amateur.homebrew/browse_thread/thr=
ead/3512e277772a9620#

From 3540929998436534239
X-Google-Thread: 241b302a50,837529dfd5a58da9
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe11.iad.POSTED!7564ea0f!not-for-mail
From: Bill Janssen <billj@ieee.org>
Reply-To: billjNOT_THIS@ieee.org
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP 5245L Counter Oscillator adjust?
References: <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net> <fmmck-9B9D2F.16074301052010@5ad64b5e.bb.sky.com>
In-Reply-To: <fmmck-9B9D2F.16074301052010@5ad64b5e.bb.sky.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 48
Message-ID: <Go4Dn.270802$Ye4.233332@newsfe11.iad>
X-Complaints-To: abuse-news@frontiernet.net
NNTP-Posting-Date: Sun, 02 May 2010 01:17:26 UTC
Organization: Frontier
Date: Sat, 01 May 2010 18:17:41 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:3704

Fred McKenzie wrote:

```
> In article <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net>,
>  Scott <acepilotREMOVE@bloomer.net> wrote:
>
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>> (with another counter) at 10.000066 MHz.  I adjusted the "coarse tune"
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> oscillator fairly accurately using an oscilloscope.  After several
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>
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> to QST for their Hints & Kinks several years back.  Since then, one of
> the HP designers of the oscillator posted a comment that the thermal
> fuse wasn't really needed, since the heating element shouldn't cause any
> damage if left on continuously.  Even so, I feel better with the thermal
> fuse installed!
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> Fred
> K4DII
>
Scott
I seem to recall that there is a second adjustment inside the plug-in
area. I assume you found
both of the adjustments.

Bill K7NOM


From -6105418246983062768
X-Google-Thread: 82c8fee960,734c9c8316f3bd38,start
X-Google-Attributes: gid82c8fee960,public,usenet
X-Google-NewGroupId: yes
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!u30g2000prd.googlegroups.com!not-for-
mail
From: buyclothing <jfkdk455678@yahoo.com.cn>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: G-Star man jeans supplier (paypal payment)(
Date: Sun, 2 May 2010 20:09:51 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <5e98d925-9f6a-4aba-9928-470ac040ca08@u30g2000prd.googlegroups.com>
NNTP-Posting-Host: 112.111.175.74
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1272856191 27926 127.0.0.1 (3 May 2010 03:09:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 3 May 2010 03:09:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u30g2000prd.googlegroups.com; posting-host=112.111.175.74;
     posting-account=ol6dmwoAAAChIvRQNDTzF9tvv_5NeVAj
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1;
     Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
     3.0.30729; MALN),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3705
rec.puzzles.crosswords:7739

Artful dodger man jeans supplier (paypal payment)(  http://www.brandtrade10.com
)
  BAPE man jeans supplier (paypal payment)(  http://www.brandtrade10.com
)
  BBC man jeans supplier (paypal payment)(  http://www.brandtrade10.com
)
  Christian Audigier man jeans supplier (paypal payment)
(  http://www.brandtrade10.com  )
  COOGI man jeans
  Crown Holder man jeans  supplier (paypal payment)(  http://www.brandtrade10.com
)
  D&G man jeans
  Diesel man jeans supplier (paypal payment)(  http://www.brandtrade10.com
)
  Ed Hardy women jeans supplier (paypal payment)(  http://www.brandtrade10.com
)
  Ed Hardy man jeans
  Evisu man jeans jeans  supplier (paypal payment)(  http://www.brandtrade10.com
)
  G-Star man jeans supplier (paypal payment)(  http://www.brandtrade10.com
)
  Red Monkey man jeans
  ROCK man jeans  supplier (paypal payment)(  http://www.brandtrade10.com
)
  ROCK women jeans
  man jeans supplier (paypal payment)(  http://www.brandtrade10.com
)
```

True Religion women jeans
man jeans

```
From -8157658096559583913
X-Google-Thread: 241b302a50,837529dfd5a58da9
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 03 May 2010 05:54:06 -0500
Date: Mon, 03 May 2010 10:54:06 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP 5245L Counter Oscillator adjust?
References: <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net>
<fmmck-9B9D2F.16074301052010@5ad64b5e.bb.sky.com>
<Go4Dn.270802$Ye4.233332@newsfe11.iad>
In-Reply-To: <Go4Dn.270802$Ye4.233332@newsfe11.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <VfidnSTzFOLTNkPWnZ2dnUVZ_rydnZ2d@bright.net>
Lines: 56
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-hvXTeSGok0Bu+VhSv8QI91IN8AUGLM7/
xPdGAHUCXeRu44Z1otyw5sJWJWPoe3+gw9ejIG3MUrfNi5J!abP/9gruCHu2pjPPzbSefWu/
Kc4zEhpg9WZZPJwJ9dhGJJnvw7VBFFz3VSIaTDWEmIcgN/W9Ht4p!R+6BXDJ9gw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3706
```

Bill Janssen wrote:
> Fred McKenzie wrote:
>> In article <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net>,
>> Scott <acepilotREMOVE@bloomer.net> wrote:
>>
>>
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>>> counter) at 10.000066 MHz. I adjusted the "coarse tune" adjustment
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>>>
>>

```
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>>
>> Fred
>> K4DII
>>
> Scott
> I seem to recall that there is a second adjustment inside the plug-in
> area. I assume you found
> both of the adjustments.
>
> Bill K7NOM

I did see a fairly large air variable capacitor sitting next to the oven
assembly, but since I didn't know what it was for, I didn't adjust it.
I'll go through the manual I downloaded and see if I can get it on
frequency.  Thanks for the note.

Scott
N0EDV



From 5311024610652330463
X-Google-Thread: 241b302a50,837529dfd5a58da9
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
```

news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 03 May 2010 12:03:58 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net>
<fmmck-9B9D2F.16074301052010@5ad64b5e.bb.sky.com>
<Go4Dn.270802$Ye4.233332@newsfe11.iad>
<VfidnSTzFOLTNkPWnZ2dnUVZ_rydnZ2d@bright.net>
Subject: Re: HP 5245L Counter Oscillator adjust?
Date: Mon, 3 May 2010 12:03:57 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <OoydncQwCLJjnELWnZ2dnUVZ_gKdnZ2d@giganews.com>
Lines: 75
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-YnoFptiDtHagkldySo81RjVJgh/OeMCzjj0rrZ7xO/pG+fxrJEdUqJkqoNhaHV0b/
7allJ42sfQEc+h!
hxCoR8+LfBPenrkxOThQQZu55upEWWBXlDWw8moP4su8sN+X9HSMZk33h1MfV38GWUCeNVPSxfds
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3707

Scott wrote:
> Bill Janssen wrote:
>> Fred McKenzie wrote:
>>> In article <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net>,
>>> Scott <acepilotREMOVE@bloomer.net> wrote:
>>>
>>>
>>>> I measure the signal coming out the back of the counter (with
>>>> another counter) at 10.000066 MHz. I adjusted the "coarse tune"
>>>> adjustment on the back of the unit and this is as close as it gets
>>>> to 10.000000 MHz, so I assume there must be some other adjustment
>>>> somewhere.
>>>
>>> Scott-
>>>
>>> I have a different HP counter that had a similar problem when I got
>>> it. There was a capacitor adjustment in the crystal oven, but it did
>>> not have enough range to bring the oscillator to 10.0 MHz.
>>>
>>> It turned out that there was an open thermal fuse in the supply line
>>> inside the crystal oven. It was a plug-in device about the size of
>>> a half watt resistor, maybe smaller. There were two wire-sockets
>>> that its leads plugged into.
>>>

>>> I managed to buy the last thermal fuse HP had in stock at the time.
>>> Before it arrived, I had fabricated replacements using a thermal
>>> fuse from Radio Shack, wired in parallel with a high value resistor
>>> which had the correct lead diameter to plug into the wire sockets.
>>>
>>> Using a rubidium oscillator purchased on E-Bay, I aligned the
>>> repaired oscillator fairly accurately using an oscilloscope. After
>>> several years, it seems to still be within a fraction of one Hz!
>>>
>>> It turns out that this is a common problem. I wrote it up and sent
>>> it to QST for their Hints & Kinks several years back. Since then,
>>> one of the HP designers of the oscillator posted a comment that the
>>> thermal fuse wasn't really needed, since the heating element
>>> shouldn't cause any damage if left on continuously. Even so, I
>>> feel better with the thermal fuse installed!
>>>
>>> Fred
>>> K4DII
>>>
>> Scott
>> I seem to recall that there is a second adjustment inside the plug-in
>> area. I assume you found
>> both of the adjustments.
>>
>> Bill K7NOM
>
> I did see a fairly large air variable capacitor sitting next to the
> oven assembly, but since I didn't know what it was for, I didn't
> adjust it. I'll go through the manual I downloaded and see if I can
> get it on frequency. Thanks for the note.
>
> Scott
> N0EDV

Scott,
Those capacitors inside the plugin bay are medium and fine frequency
adjustments. If the coarse frequency adjustment inside the oven won't get
it on frequency, then the others certainly won't have enough range to get it
right.
As I and others have suggested, you really need to verify whether the oven
is being heated before you do any more adjusting. Set the coarse tuning
back to its starting position and troubleshoot the oven circuitry. I'm
convinced that's where you'll find the trouble.
Get your voltmeter out and check the oven heater connection. It will tell
you a lot.
--
David
dgminala at mediacombb dot net

From -2445857271477483950
X-Google-Thread: 241b302a50,939276fb9ce94bd0,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 03 May 2010 14:49:46 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: VLF to UHF wideband amplifier with AGC for signal generator
From: msg <nospam@nospam.nowhere>
Organization: Cybertheque Museum
Message-ID: <Xns9D6D96BF5152Fnospamnospamnowhere@216.196.97.142>
User-Agent: Xnews/2009.05.01
Date: Mon, 03 May 2010 14:49:46 -0500
Lines: 24
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-GMfsDK+bgp9gTuu0NNMAW5pidqn2vhUWWzUoBN3IKp6pA27q/
7ekJakMHmzf8ZZu+Bjgy+hHt7MQJYB!c9Zr5sW13OxdF9sRyEir2XYj1oZYo/
93ylrxrkwRbGJvJzUPKpf6ijLbhkoCpmEG24NSxcLAUu4D!yCNwlWyP94xrMqAV/l0fOQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3708

Greetings,

I would appreciate any citations to projects (etched boards, layouts, anything that has been tested) for a small wideband amplifier with hi-Z input (1mV -> 100mV), AGC (over full gain range), 50 ohm output, approx. 100kHz to 440MHz bandwidth with min. 15dB gain; the intent is to provide a low impedance, leveled output from cheap old signal generators (for setups to measure antenna impedance, circuit Q, manual spectrum analysis, etc.) Ideally, the AGC circuit would employ an external level set control and three LEDs which indicate underrange, locked and overrange respectively.

One would have thought that this would have been a popular item what with the thousands of old Dynascan, EICO, Heathkit, etc. generators still in the wild that have hi-Z unleveled outputs.

It could be built with discretes, but an AGC wideband IC makes sense, such as the SL6140 (which is probably hard to find) -- recommendations for any other device? Perhaps someone can point to some set-top box, sat rcvr, cable tuner, etc. that may have something to use?

Thanks,

Michael

```
From 111680986136853195
X-Google-Thread: 241b302a50,939276fb9ce94bd0
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!s29g2000yqd.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VLF to UHF wideband amplifier with AGC for signal generator
Date: Mon, 3 May 2010 14:24:59 -0700 (PDT)
Organization: http://groups.google.com
Lines: 65
Message-ID: <2f7ad10a-ad82-401c-aced-f6271e84f1bf@s29g2000yqd.googlegroups.com>
References: <Xns9D6D96BF5152Fnospamnospamnowhere@216.196.97.142>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1272921899 27605 127.0.0.1 (3 May 2010 21:24:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 3 May 2010 21:24:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s29g2000yqd.googlegroups.com; posting-host=192.25.240.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3709
```

On May 3, 12:49=A0pm, msg <nos...@nospam.nowhere> wrote:

> Greetings,
>
> I would appreciate any citations to projects (etched boards, layouts,
> anything that has been tested) for a small wideband amplifier with
> hi-Z input (1mV -> 100mV), AGC (over full gain range), 50 ohm output,
> approx. 100kHz to 440MHz bandwidth with min. 15dB gain; the intent
> is to provide a low impedance, leveled output from cheap old signal
> generators (for setups to measure antenna impedance, circuit Q,
> manual spectrum analysis, etc.) =A0Ideally, the AGC circuit would employ
> an external level set control and three LEDs which indicate underrange,
> locked and overrange respectively.
>
> One would have thought that this would have been a popular item what
> with the thousands of old Dynascan, EICO, Heathkit, etc. generators
> still in the wild that have hi-Z unleveled outputs.
>
> It could be built with discretes, but an AGC wideband IC makes sense,
> such as the SL6140 (which is probably hard to find) -- recommendations
> for any other device? Perhaps someone can point to some set-top box,
> sat rcvr, cable tuner, etc. that may have something to use?
>

> Thanks,
>
> Michael

Over what range of output would you like the circuit to operate? I suppose a 10dB range from, say, 0dBm to +10dBm would be appropriate. You say "hi-Z input," but by the time you get to 440MHz, it doesn't seem like the generators will have a high impedance output. Most of the parts I can think of that would be helpful are already 50 ohm, or similar, input. Maybe that's more because I deal mostly in 50 ohm systems than that the parts aren't available. You didn't mention if distortion (harmonic) is important, but I suppose so, and in fact, the AGC loop should be so slow that you can pass AM modulation down to pretty low frequencies.

It could be done with a small hand-full of parts, certainly: an MMIC amplifier with an appropriate voltage divider at its input to get to a higher input impedance and a reasonable level to drive a double-balanced mixer (or similar; to control the level); another MMIC at the mixer output to give the desired output level; an RF power detector IC (suggest a Schottky-based one like the Linear Technology LT5507, rather than a log detector, for this application) and a low frequency amplifier/filter back to the baseband port of the DBM to control the level. That's not a whole lot of parts, though there may well be something closer to a single chip solution. However, a lot of RF ICs don't cover down to 100kHz, and a lot of low frequency parts won't go to 440MHz. I've played with a nice little 4-quadrant multiplier IC from Analog Devices that would do the gain control part quite nicely: ADL5391. Actually, its input impedance is probably high enough to use directly with your sig-gen output, though the generator's output level may be a bit too low for optimum performance. Also, beware that the output impedance of the ADL5391 goes up with increasing frequency.

Hope this is useful food for thought...

Cheers,
Tom

Cheers,
Tom

```
From 3653015433180181915
X-Google-Thread: 241b302a50,837529dfd5a58da9
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!e2g2000yqn.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP 5245L Counter Oscillator adjust?
Date: Mon, 3 May 2010 14:37:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 80
Message-ID: <af9baf05-9c30-43bd-808f-9e111a971591@e2g2000yqn.googlegroups.com>
References: <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net>
<fmmck-9B9D2F.16074301052010@5ad64b5e.bb.sky.com>
     <_oedneAGx6dSUEHWnZ2dnUVZ_qqdnZ2d@bright.net>
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1272922633 6095 127.0.0.1 (3 May 2010 21:37:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 3 May 2010 21:37:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e2g2000yqn.googlegroups.com; posting-host=192.25.240.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3710

On May 1, 5:56=A0pm, Scott <acepilotREM...@bloomer.net> wrote:
> Fred McKenzie wrote:
> > In article <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdn...@bright.net>,
> > =A0Scott <acepilotREM...@bloomer.net> wrote:
>
> >> I measure the signal coming out the back of the counter
> >> (with another counter) at 10.000066 MHz. =A0I adjusted the "coarse tun=
e"
> >> adjustment on the back of the unit and this is as close as it gets to
> >> 10.000000 MHz, so I assume there must be some other adjustment
> >> somewhere.
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> > Scott-
>
> > I have a different HP counter that had a similar problem when I got it.
> > There was a capacitor adjustment in the crystal oven, but it did not
> > have enough range to bring the oscillator to 10.0 MHz.
>
> > It turned out that there was an open thermal fuse in the supply line
> > inside the crystal oven. =A0It was a plug-in device about the size of a
> > half watt resistor, maybe smaller. =A0There were two wire-sockets that =
its
> > leads plugged into.
>
> > I managed to buy the last thermal fuse HP had in stock at the time. =A0
> > Before it arrived, I had fabricated replacements using a thermal fuse
> > from Radio Shack, wired in parallel with a high value resistor which ha=
d
> > the correct lead diameter to plug into the wire sockets.
```

>
> > Using a rubidium oscillator purchased on E-Bay, I aligned the repaired
> > oscillator fairly accurately using an oscilloscope. =A0After several
> > years, it seems to still be within a fraction of one Hz!
>
> > It turns out that this is a common problem. =A0I wrote it up and sent i=
t
> > to QST for their Hints & Kinks several years back. =A0Since then, one o=
f
> > the HP designers of the oscillator posted a comment that the thermal
> > fuse wasn't really needed, since the heating element shouldn't cause an=
y
> > damage if left on continuously. =A0Even so, I feel better with the ther=
mal
> > fuse installed!
>
> > Fred
> > K4DII
>
> Thanks Fred! =A0I haven't had time to dig into it yet as I'm out playing
> on 10 GHz this weekend. =A0Fortunately, I have a second 5245L for
> comparisons. =A0I did find the capacitor on the oven as you mention, but
> it did not have enough range as you noted. =A0If the heater is working,
> does the enclosure get warm? =A0Seems to me that as I was feeling around,
> it was ice cold on the outside. =A0Maybe we're onto something here!
>
> Scott
> N0EDV

Yes, most certainly the oven should be noticeably warm, unless your ambient temperature is already really hot. You can also monitor the current the oven draws (perhaps with some difficulty, depending on how the oven is wired into the circuit). You should see moderately high current when the oven is first turned on, and the current should drop to (very roughly) half as much as the oven reaches operating temperature. I'd expect the oven control loop to be reasonably damped, so the current falls from the startup value to the idling value within just a few seconds and stabilizes without overshoot, or with only minor overshoot. At least that's what I've seen on several models, including the HP10811.

These days, you can get some remarkably small and low-power oven oscillators, down to TO-5 transistor can size I believe, and possibly even smaller. The power to run them is low milliwatts. Even temperature-compensated oscillators have gotten remarkably good...I have some 3x5 millimeter ones that are rated half a part per million max deviation over -20C to +55C (and run on about 2.5 milliwatts), and you can get better than that.

Cheers,
Tom

```
From 7255589799923023655
X-Google-Thread: 82c8fee960,a0c18eb6f2fff075,start
X-Google-Attributes: gid82c8fee960,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k25g2000prh.googlegroups.com!not-for-
mail
From: sporttrade <okreml5656@yahoo.com.cn>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: AF sweater discount paypal wholesale
Date: Mon, 3 May 2010 19:44:21 -0700 (PDT)
Organization: http://groups.google.com
Lines: 36
Message-ID: <d9da75a4-7edf-4b39-b8da-539049ea7439@k25g2000prh.googlegroups.com>
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Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1272941061 19455 127.0.0.1 (4 May 2010 02:44:21 GMT)
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NNTP-Posting-Date: Tue, 4 May 2010 02:44:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k25g2000prh.googlegroups.com; posting-host=112.111.165.40;
     posting-account=BB8cxgoAAACzhQQQ1AovfSIyJGuiACGG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1;
     Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
     3.0.30729; MALN),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3711
rec.puzzles.crosswords:7744

nike running (http://www.brandtrade10.com 0
prada shoes discount paypal sale (http://www.brandtrade10.com )
DSQ shoes(http://www.brandtrade10.com 0
nike football shoes discount paypal sale (http://
www.brandtrade10.com )
nike DUNK shoes discount paypal sale (http://www.brandtrade10.com )
Rift shoes discount paypal sale (http://www.brandtrade10.com )
NBA basketball shoes discount paypal sale (http://
www.brandtrade10.com )
adidas running discount paypal sale (http://www.brandtrade10.com )
adidas NBA shoes discount paypal sale (http://www.brandtrade10.com )
adidas 35th anniversary shoes discount paypal sale (http://
www.brandtrade10.com )
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adidas football shoes(http://www.brandtrade10.com 0
GGG hoody discount paypal sale (http://www.brandtrade10.com )
GGG T-shirt discount paypal sale (http://www.brandtrade10.com )
Armani T-shirt discount paypal sale (http://www.brandtrade10.com )
Armani shirt discount paypal sale (http://www.brandtrade10.com )
armani long t-shirt discount paypal sale (http://
www.brandtrade10.com )
AF sweater discount paypal sale (http://www.brandtrade10.com )
AF women trousrs discount paypal sale (http://www.brandtrade10.com )
```

AF men and women coat discount paypal sale (http://www.brandtrade10.com)
D&G jeans discount paypal sale (http://www.brandtrade10.com)
A&G T-shirt discount paypal sale (http://www.brandtrade10.com)
BBC scanties discount paypal sale (http://www.brandtrade10.com)
BBC jeans discount paypal sale (http://www.brandtrade10.com)
BBC hoody discount paypal sale (http://www.brandtrade10.com)
BBC T-shirt discount paypal sale (http://www.brandtrade10.com)
LRG jeans discount paypal sale (http://www.brandtrade10.com)
LRG hoody discount paypal sale (http://www.brandtrade10.com)
LRG T-shirt discount paypal sale (http://www.brandtrade10.com)
Bape jeans discount paypal sale (http://www.brandtrade10.com)
Bape hoody discount paypal sale (http://www.brandtrade10.com)

From -7371071461588119820
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X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b18g2000yqb.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VLF to UHF wideband amplifier with AGC for signal generator
Date: Tue, 4 May 2010 11:51:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 41
Message-ID: <c80d8ac8-0195-4556-9b77-9e91c08d51d4@b18g2000yqb.googlegroups.com>
References: <Xns9D6D96BF5152Fnospamnospamnowhere@216.196.97.142>
NNTP-Posting-Host: 99.92.119.140
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1272999111 27836 127.0.0.1 (4 May 2010 18:51:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 4 May 2010 18:51:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b18g2000yqb.googlegroups.com; posting-host=99.92.119.140;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
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rv:1.8.1.24pre) Gecko/20100228 K-Meleon/1.5.4,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3712

Hey OM:

I know for sure MMIC's been around quite sum time. I used to make a living selling them back in the 1980's to people building HBO boxes. There's got to be plenty of apps out there. I mean wideband DC to 2.5Ghz 12db gain +-3db across the whole bandwidth.
There's a tonne of them out there. Mini Circuits is just one famous manufacturer.

73 OM

de n8zu

On May 3, 3:49 pm, msg <nos...@nospam.nowhere> wrote:
> Greetings,
>
> I would appreciate any citations to projects (etched boards, layouts,
> anything that has been tested) for a small wideband amplifier with
> hi-Z input (1mV -> 100mV), AGC (over full gain range), 50 ohm output,
> approx. 100kHz to 440MHz bandwidth with min. 15dB gain; the intent
> is to provide a low impedance, leveled output from cheap old signal
> generators (for setups to measure antenna impedance, circuit Q,
> manual spectrum analysis, etc.) Ideally, the AGC circuit would employ
> an external level set control and three LEDs which indicate underrange,
> locked and overrange respectively.
>
> One would have thought that this would have been a popular item what
> with the thousands of old Dynascan, EICO, Heathkit, etc. generators
> still in the wild that have hi-Z unleveled outputs.
>
> It could be built with discretes, but an AGC wideband IC makes sense,
> such as the SL6140 (which is probably hard to find) -- recommendations
> for any other device? Perhaps someone can point to some set-top box,
> sat rcvr, cable tuner, etc. that may have something to use?
>
> Thanks,
>
> Michael

From 5009685632516413697
X-Google-Thread: 241b302a50,837529dfd5a58da9
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 04 May 2010 18:13:55 -0500
Date: Tue, 04 May 2010 23:13:55 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP 5245L Counter Oscillator adjust?
References: <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net>
<fmmck-9B9D2F.16074301052010@5ad64b5e.bb.sky.com>
<Go4Dn.270802$Ye4.233332@newsfe11.iad>
<VfidnSTzFOLTNkPWnZ2dnUVZ_rydnZ2d@bright.net>

<OoydncQwCLJjnELWnZ2dnUVZ_gKdnZ2d@giganews.com>
In-Reply-To: <OoydncQwCLJjnELWnZ2dnUVZ_gKdnZ2d@giganews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Yd6dnenVR9yuN33WnZ2dnUVZ_r2dnZ2d@bright.net>
Lines: 19
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3713

Dave M wrote:

>
> Scott,
> Those capacitors inside the plugin bay are medium and fine frequency
> adjustments. If the coarse frequency adjustment inside the oven won't get
> it on frequency, then the others certainly won't have enough range to get it
> right.
> As I and others have suggested, you really need to verify whether the oven
> is being heated before you do any more adjusting. Set the coarse tuning
> back to its starting position and troubleshoot the oven circuitry. I'm
> convinced that's where you'll find the trouble.
> Get your voltmeter out and check the oven heater connection. It will tell
> you a lot.

Yup...I will delve into the oven circuitry when I get a chance...have a
couple other higher priority projects to clean up first...

N0EDV

From -8373086605033194973
X-Google-Thread: 241b302a50,837529dfd5a58da9
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 04 May 2010 18:18:55 -0500
Date: Tue, 04 May 2010 23:18:55 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP 5245L Counter Oscillator adjust?

References: <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net>
<fmmck-9B9D2F.16074301052010@5ad64b5e.bb.sky.com>
<_oedneAGx6dSUEHWnZ2dnUVZ_qqdnZ2d@bright.net>
<af9baf05-9c30-43bd-808f-9e111a971591@e2g2000yqn.googlegroups.com>
In-Reply-To: <af9baf05-9c30-43bd-808f-9e111a971591@e2g2000yqn.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <FKmdnTXzvsrCNn3WnZ2dnUVZ_oednZ2d@bright.net>
Lines: 32
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-nv4KMMl/8KaExU6T0DxfFfMb/
+coS6WFCGqzIoyEBOkt+ezvso5HQ6P1JMBEEH3yc86QX3Oe1jg93wE!
iYPISUMBzq04KQR6cUKmLq7nW9JHjNRZvoVpXqHlRXXRb/hoLqFMZUY79ySE80cu6YtlKBU420aM!
P9yaLGLoFg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3714

K7ITM wrote:

>
> Yes, most certainly the oven should be noticeably warm, unless your
> ambient temperature is already really hot. You can also monitor the
> current the oven draws (perhaps with some difficulty, depending on how
> the oven is wired into the circuit). You should see moderately high
> current when the oven is first turned on, and the current should drop
> to (very roughly) half as much as the oven reaches operating
> temperature. I'd expect the oven control loop to be reasonably
> damped, so the current falls from the startup value to the idling
> value within just a few seconds and stabilizes without overshoot, or
> with only minor overshoot. At least that's what I've seen on several
> models, including the HP10811.
>
> These days, you can get some remarkably small and low-power oven
> oscillators, down to TO-5 transistor can size I believe, and possibly
> even smaller. The power to run them is low milliwatts. Even
> temperature-compensated oscillators have gotten remarkably good...I
> have some 3x5 millimeter ones that are rated half a part per million
> max deviation over -20C to +55C (and run on about 2.5 milliwatts), and
> you can get better than that.
>
> Cheers,
> Tom

I don't think it's POSSIBLE to get REALLY HOT here in WI (by some
standards, that is...to me, 75 is really hot!)

;)

```
From -8101639790098253926
X-Google-Thread: 82c8fee960,e6e7889d5d79035f,start
X-Google-Attributes: gid82c8fee960,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a2g2000prd.googlegroups.com!not-for-
mail
From: sporttrade <okreml5656@yahoo.com.cn>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: discount clarks shoes paypal sale
Date: Tue, 4 May 2010 20:51:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 39
Message-ID: <fffe179a-555a-41fe-b0d0-bc42c98713c3@a2g2000prd.googlegroups.com>
NNTP-Posting-Host: 218.6.25.251
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1273031510 11298 127.0.0.1 (5 May 2010 03:51:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 5 May 2010 03:51:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a2g2000prd.googlegroups.com; posting-host=218.6.25.251;
     posting-account=BB8cxgoAAACzhQQQ1AovfSIyJGuiACGG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1;
     Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
     3.0.30729; MALN),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3715
rec.puzzles.crosswords:7749

hitec  paypal saler http://www.brandtrade10.com
cal?ados hi tec  paypal saler http://www.brandtrade10.com
hi tech cal?ados  paypal saler http://www.brandtrade10.com
Pumas Shoes  paypal saler http://www.brandtrade10.com
hi tec  paypal saler http://www.brandtrade10.com
ecco shoe  paypal saler http://www.brandtrade10.com
aqua socks paypal sale http://www.brandtrade10.com
puma shoes  paypal saler http://www.brandtrade10.com
sport shoes paypal sale http://www.brandtrade10.com
small size ladies shoes paypal sale http://www.brandtrade10.com
small ladies shoes paypal sale http://www.brandtrade10.com
Shoes Timberland paypal saler http://www.brandtrade10.com
Leather Shoe paypal sale http://www.brandtrade10.com
clarks shoe paypal sale http://www.brandtrade10.com
candies shoes paypal sale http://www.brandtrade10.com
shoe laces paypal sale http://www.brandtrade10.com
Converse Shoe paypal sale http://www.brandtrade10.com

palladium shoe paypal sale http://www.brandtrade10.com
Shoes sale paypal sale http://www.brandtrade10.com
naturino shoes paypal sale http://www.brandtrade10.com
```

sportiva mythos paypal saler http://www.brandtrade10.com
shimano shoes paypal sale http://www.brandtrade10.com
Sporting Goods paypal sale http://www.brandtrade10.com
footwear brand paypal sale http://www.brandtrade10.com
ladies wide shoes paypal sale http://www.brandtrade10.com
ladies dress shoes paypal sale http://www.brandtrade10.com
ladies casual shoes paypal sale http://www.brandtrade10.com
men shoe paypal saler http://www.brandtrade10.com
clarks shoes womens paypal sale http://www.brandtrade10.com
Shoe Ladies paypal sale http://www.brandtrade10.com
shoes stores paypal sale http://www.brandtrade10.com
discount clarks shoes paypal sale http://www.brandtrade10.com
timberland shoe paypal sale http://www.brandtrade10.com
quick shoes paypal sale http://www.brandtrade10.com
dress shoe paypal sale http://www.brandtrade10.com
men's shoe paypal sale http://www.brandtrade10.com
casual shoe paypal saler http://www.brandtrade10.com
leather shoes paypal sale http://www.brandtrade10.com

From -1158245960970845088
X-Google-Thread: 82c8fee960,d55301844d34e2fb,start
X-Google-Attributes: gid82c8fee960,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!t34g2000prd.googlegroups.com!not-for-
mail
From: sporttrade <okreml5656@yahoo.com.cn>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: Hogan shoes (paypal payment)((http://www.brandtrade10.com))
Date: Wed, 5 May 2010 00:25:12 -0700 (PDT)
Organization: http://groups.google.com
Lines: 49
Message-ID: <7a33025d-579d-4926-90c7-492c475f0d9f@t34g2000prd.googlegroups.com>
NNTP-Posting-Host: 125.78.242.228
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1273044312 14159 127.0.0.1 (5 May 2010 07:25:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 5 May 2010 07:25:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t34g2000prd.googlegroups.com; posting-host=125.78.242.228;
posting-account=BB8cxgoAAACzhQQ1AovfSIyJGuiACGG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1;
Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
3.0.30729; MALN),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3716
rec.puzzles.crosswords:7750

Footwear (paypal payment)((http://www.brandtrade10.com))
Paul Smith shoes
Jordan shoes

```
Bape shoes
Chanel shoes (paypal payment)( (http://www.brandtrade10.com )  )
D&G shoes
Dior shoes
ED hardy shoes
Evisu shoes
Fendi shoes (paypal payment)( (http://www.brandtrade10.com )  )
Gucci shoes `
Hogan shoes (paypal payment)( (http://www.brandtrade10.com )  )
Lv shoes
Prada shoes (paypal payment)( (http://www.brandtrade10.com )  )
Timberland shoes
Tous shoes
puma shoes (paypal payment)( (http://www.brandtrade10.com )  )
Ice cream shoes
Sebago shoes (paypal payment)( (http://www.brandtrade10.com )  )
Lacoste shoes
Air force one shoes (paypal payment)( (http://
www.brandtrade10.com )  )
TODS shoes
AF shoes

Footwear (paypal payment)( (http://www.brandtrade10.com )  )
Paul Smith shoes
Jordan shoes
Bape shoes
Chanel shoes (paypal payment)( (http://www.brandtrade10.com )  )
D&G shoes
Dior shoes
ED hardy shoes
Evisu shoes
Fendi shoes (paypal payment)( (http://www.brandtrade10.com )  )
Gucci shoes
Hogan shoes (paypal payment)( (http://www.brandtrade10.com )  )
Lv shoes
c
Timberland shoes
Tous shoes
puma shoes (paypal payment)( (http://www.brandtrade10.com )  )
Ice cream shoes
Sebago shoes (paypal payment)( (http://www.brandtrade10.com )  )
Lacoste shoes
Air force one shoes (paypal payment)( (http://
www.brandtrade10.com )  )
TODS shoes
AF shoes


From 7218110154495786119
X-Google-Thread: a4a23d5f63,94ecf8cc5021f2b,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!novia!news-out.readnews.com!transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1270620300@panix.com>
Followup-To: poster
Date: 7 May 2010 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Jun 2010 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1273212300@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1273212302 15159 166.84.1.2 (7 May 2010 06:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 7 May 2010 06:05:02 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news2.google.com rec.radio.amateur.antenna:17552 rec.radio.amateur.dx:657 rec.radio.amateur.equipment:2172 rec.radio.amateur.homebrew:3717 rec.radio.amateur.misc:5122 rec.radio.amateur.policy:29111 rec.radio.info:1503

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |

```
is that it does not mention newer amateur radio newsgroups created since      |
it was written, including:                                                     |

 rec.radio.amateur.antenna                                                     |
 rec.radio.amateur.boatanchors                                                 |
 rec.radio.amateur.dx                                                          |
 rec.radio.amateur.equipment                                                   |
 rec.radio.amateur.homebrew                                                    |
 rec.radio.amateur.moderated                                                   |
 rec.radio.amateur.space                                                       |

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions.  We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.




From 6601394231110610106
X-Google-Thread: 241b302a50,68ff62427cae9087,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e1g2000yqe.googlegroups.com!not-for-
mail
From: fitz <zeusrdx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Over 4 Decades of Dan Fitzpatrick's Books, Papers & Thoughts - All
     FREE.
Date: Fri, 7 May 2010 07:29:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <71cb7e4d-025a-4a65-80f9-8b92783f08ec@e1g2000yqe.googlegroups.com>
NNTP-Posting-Host: 204.116.59.150
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1273242595 9815 127.0.0.1 (7 May 2010 14:29:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 7 May 2010 14:29:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e1g2000yqe.googlegroups.com; posting-host=204.116.59.150;
     posting-account=A451vgoAAAByCJv5ugpkfX8QG96-xuRZ
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0;
     Trident/4.0; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
     3.0.30618; yie8),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3718
```

Over 4 Decades of Dan Fitzpatrick's Books, Papers & Thoughts - All
FREE.

No Ads with these either!.

(click link)

http://www.amperefitz.com/4.decades.htm

In this day and age this is simply Incredible!.

Enjoy!

```
From 511711406371388724
X-Google-Thread: 241b302a50,60cf435b90ab2750,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,CP1252
Path: g2news2.google.com!postnews.google.com!p5g2000pri.googlegroups.com!not-for-
mail
From: jersey-2009 <brandjeans1@163.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Burberry Man T-Shirt cheap good quality (http://www.brandtrade10.com
     )
Date: Fri, 7 May 2010 19:54:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <c6df6864-fb72-4752-906b-5e7fbd1aa43e@p5g2000pri.googlegroups.com>
NNTP-Posting-Host: 58.22.64.63
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1273287253 25455 127.0.0.1 (8 May 2010 02:54:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 8 May 2010 02:54:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p5g2000pri.googlegroups.com; posting-host=58.22.64.63;
     posting-account=5FmytgoAAADp1BhfjhlQFKEoslacWWSy
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     QQPinyin 730; GTB6.4; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3719
```

Burberry Man T-Shirt cheap good quality (http://
www.brandtrade10.com)

Christan Audigier T-Shirt cheap good quality (http://www.brandtrade10.com)
Coogi Man T-Shirt cheap good quality (http://www.brandtrade10.com)
Crown Holder Man T-Shirt cheap good quality (http://www.brandtrade10.com)
D&G Man T-Shirt cheap good quality (http://www.brandtrade10.com)
Diesel Man T-Shirt cheap good quality (http://www.brandtrade10.com)
Ecko Man T-Shirt cheap good quality (http://www.brandtrade10.com)
ED Hardy T-Shirt cheap good quality (http://www.brandtrade10.com)
Evisu Man T-Shirt cheap good quality (http://www.brandtrade10.com)
Gino Green Global Man T-Shirt cheap good quality (http://www.brandtrade10.com)
G-Star Man T-Shirt cheap good quality (http://www.brandtrade10.com)
Juicy Women T-Shirt cheap good quality (http://www.brandtrade10.com)
Lacoste T-Shirt cheap good quality (http://www.brandtrade10.com)
LEVI=92S Man T-Shirt cheap good quality (http://www.brandtrade10.com)
LRG Man T-Shirt cheap good quality (http://www.brandtrade10.com)
LV Man T-Shirt cheap good quality (http://www.brandtrade10.com)
Nike Man T-Shirt cheap good quality (http://www.brandtrade10.com)
POLO T-Shirt cheap good quality (http://www.brandtrade10.com)

From 289274222644570708
X-Google-Thread: 241b302a50,2fd5d6b428363f7f,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e2g2000yqn.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Cell phone Hack
Date: Sun, 9 May 2010 17:50:02 -0700 (PDT)
Organization: http://groups.google.com
Lines: 8
Message-ID: <cbf4e19a-3116-446d-8568-93150e072efc@e2g2000yqn.googlegroups.com>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1273452602 5112 127.0.0.1 (10 May 2010 00:50:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 10 May 2010 00:50:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e2g2000yqn.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3720

I bought 3 old cell phones at a yard cell the other day to tinker
with. These are GPS equipped. I was wondering it would be possible to

take a signal off of these I could use as a time reference. At work we have such a reference that supplies 10Mhz, 1Mhz 1 Hz and I think there are other frequencies. I opened one up and dont have a clue to what any of the chips do. Any help would be appreciated.

Jimmie

From 233366039453398842
X-Google-Thread: 82c8fee960,1d89fced84d700de,start
X-Google-Attributes: gid82c8fee960,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m31g2000pre.googlegroups.com!not-for-mail
From: "www.brandtrade09.com" <zhangqi8787@126.com>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: Googi jeans made in china (http://www.brandtrade10.com)
Date: Sun, 9 May 2010 20:23:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 48
Message-ID: <d3dfe8d0-c357-40fd-a6b4-271dc895f327@m31g2000pre.googlegroups.com>
NNTP-Posting-Host: 125.78.240.7
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1273461809 9996 127.0.0.1 (10 May 2010 03:23:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 10 May 2010 03:23:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m31g2000pre.googlegroups.com; posting-host=125.78.240.7;
posting-account=eEr9yAoAAAA0O08GtnRgN-Xo1m7GsrvE
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
QQPinyin 730; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3721
rec.puzzles.crosswords:7801

adidas 35th anniversary shoes made in china (http://www.brandtrade10.com)
adicolor shoes made in china (http://www.brandtrade10.com)
adidas football shoes made in china (http://www.brandtrade10.com)
GGG hoody made in china (http://www.brandtrade10.com)
GGG T-shirt made in china (http://www.brandtrade10.com)
Armani T-shirt made in china (http://www.brandtrade10.com)
Armani shirt made in china (http://www.brandtrade10.com)
armani long t-shirt made in china (http://www.brandtrade10.com)
AF sweater made in china (http://www.brandtrade10.com)
AF women trousrs made in china (http://www.brandtrade10.com)
AF men and women coat made in china (http://www.brandtrade10.com)
D&G jeans made in china (http://www.brandtrade10.com)
A&G T-shirt made in china (http://www.brandtrade10.com)
BBC scanties made in china (http://www.brandtrade10.com)
BBC jeans made in china (http://www.brandtrade10.com)

BBC hoody made in china (http://www.brandtrade10.com)
BBC T-shirt made in china (http://www.brandtrade10.com)
LRG jeans made in china (http://www.brandtrade10.com)
LRG hoody made in china (http://www.brandtrade10.com)
LRG T-shirt made in china (http://www.brandtrade10.com)
Bape jeans made in china (http://www.brandtrade10.com)
Bape hoody made in china (http://www.brandtrade10.com)

Bape t-shirt made in china (http://www.brandtrade10.com)
Evisu long t-shit made in china (http://www.brandtrade10.com)
Evisu original jeans made in china (http://www.brandtrade10.com)
Evisu jeans wear made in china (http://www.brandtrade10.com)
Evisu hoody made in china (http://www.brandtrade10.com)
Evisu jeans made in china (http://www.brandtrade10.com)
Evisu T-shirt made in china (http://www.brandtrade10.com)
POLO T-shirt made in china (http://www.brandtrade10.com)
Googi jeans made in china (http://www.brandtrade10.com)
Googi hoody made in china (http://www.brandtrade10.com)
Googi T-shirt made in china (http://www.brandtrade10.com)
juicy made in china (http://www.brandtrade10.com)
10Deep jeans made in china (http://www.brandtrade10.com)
10 Deep hoody made in china (http://www.brandtrade10.com)
10Deep T-shirt made in china (http://www.brandtrade10.com)
Lacoste T-shirt made in china (http://www.brandtrade10.com)
Lacoste sweater made in china (http://www.brandtrade10.com)
Burberry jacket made in china (http://www.brandtrade10.com)
Buberry T-shirt made in china (http://www.brandtrade10.com)
Buberry shirt made in china (http://www.brandtrade10.com)
ED hardy hoody made in china (http://www.brandtrade10.com)
ED hardy jeans made in china (http://www.brandtrade10.com)

From 4695985076506503429
X-Google-Thread: 241b302a50,2fd5d6b428363f7f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!mauve.octanews.net!news-out.octanews.net!indigo.octanews.net!news-1.mpls.iphouse.net.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cell phone Hack
From: Bert Hyman <bert@iphouse.com>
References: <cbf4e19a-3116-446d-8568-93150e072efc@e2g2000yqn.googlegroups.com>
Organization: Not that you'd notice
Message-ID: <Xns9D7491332FA00VeebleFetzer@216.250.188.140>
User-Agent: Xnews/2006.08.24
Date: 10 May 2010 14:16:25 GMT
Lines: 20
NNTP-Posting-Date: 10 May 2010 09:16:25 CDT
NNTP-Posting-Host: 9b45c2b1.newsreader.iphouse.net

```
X-Trace:
DXC=`\QUWC[Vh[J2^=K6Dca>`BUU[C:R=]MbJeHS>e[L>83@LB<_6[_=S5Lc230oU7d71AX7@2h;nGb4Mi
mGLW:DZi9D
X-Complaints-To: abuse@iphouse.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:3722
```

In news:cbf4e19a-3116-446d-8568-93150e072efc@e2g2000yqn.googlegroups.com
JIMMIE <JIMMIEDEE123@YAHOO.COM> wrote:

> I bought 3 old cell phones at a yard cell the other day to tinker
> with. These are GPS equipped. I was wondering it would be possible to
> take a signal off of these I could use as a time reference. At work we
> have such a reference that supplies 10Mhz, 1Mhz 1 Hz and I think there
> are other frequencies. I opened one up and dont have a clue to what
> any of the chips do. Any help would be appreciated.

Rather than beating your head against a wall trying to figure that out, why not look into a GPS module? You can get a Garmin GPS15 for less than $50.

https://buy.garmin.com/shop/shop.do?cID=157

I'm sure there are similar products from other makers.

--
Bert Hyman   St. Paul, MN bert@iphouse.com

```
From 2706756278236913363
X-Google-Thread: 241b302a50,2fd5d6b428363f7f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 10 May 2010 09:49:17 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <cbf4e19a-3116-446d-8568-93150e072efc@e2g2000yqn.googlegroups.com>
<Xns9D7491332FA00VeebleFetzer@216.250.188.140>
Subject: Re: Cell phone Hack
Date: Mon, 10 May 2010 09:49:16 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <QYqdnYfysNRwgXXWnZ2dnUVZ_gCdnZ2d@giganews.com>
Lines: 42
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Tpn5kpiU5/MyirQ80Ihz3DCkzyuwWNp+diWEtr7rk3k81U9NDQjKxWF/
UneHlmeMojMZRuxXOpOroVy!
```

cbsgGBMhPLnUbC1gT6rjZ1eV4hr5eDa6lpxn6TC81Bs6j3ZRUGuy0FS9OHHmno4/44QGBWssnYHp
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3723

Bert Hyman wrote:
> In
> news:cbf4e19a-3116-446d-8568-93150e072efc@e2g2000yqn.googlegroups.com
> JIMMIE <JIMMIEDEE123@YAHOO.COM> wrote:
>
>> I bought 3 old cell phones at a yard cell the other day to tinker
>> with. These are GPS equipped. I was wondering it would be possible to
>> take a signal off of these I could use as a time reference. At work
>> we have such a reference that supplies 10Mhz, 1Mhz 1 Hz and I think
>> there are other frequencies. I opened one up and dont have a clue to
>> what any of the chips do. Any help would be appreciated.
>
> Rather than beating your head against a wall trying to figure that
> out, why not look into a GPS module? You can get a Garmin GPS15 for
> less than $50.
>
> https://buy.garmin.com/shop/shop.do?cID=157
>
> I'm sure there are similar products from other makers.

Bert,
My take on your plan is that it's a losing battle. Cell phones are not
really designed with frequency standard capabilities in mind, and it's
rather far-fetched to think that you could easily find a 10.000000 MHz
frequency inside a cell phone. Even if you could find a stable reference
frequency inside a cell phone, you would likely need to build a good bit of
circuitry to get it back to 10 MHz.

I suggest that you search for Thunderbolt GPS on Ebay. Made by Trimble, the
units are GPS-based frequency standards that output 10 MHz and 1PPS signals.
They were built for the cellular industry, but unlike the cell phone, their
lot in life was to be a real frequency standard.
You can find them for approx. $100-$150 USD on Ebay. They are quite
reliable and are ready to run. You only need a GPS antenna and a PC with a
serial port to run them. After getting them set up with your PC, you can
disconnect the PC and it will run unattended. The software is free.
--
David
dgminala at mediacombb dot net

```
From 5551267447921266669
X-Google-Thread: 241b302a50,2fd5d6b428363f7f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!j35g2000yqm.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cell phone Hack
Date: Mon, 10 May 2010 14:22:10 -0700 (PDT)
Organization: http://groups.google.com
Lines: 52
Message-ID: <54b324d1-da81-4ef5-9093-0bdf66d3ccf2@j35g2000yqm.googlegroups.com>
References: <cbf4e19a-3116-446d-8568-93150e072efc@e2g2000yqn.googlegroups.com>
     <Xns9D7491332FA00VeebleFetzer@216.250.188.140>
<QYqdnYfysNRwgXXWnZ2dnUVZ_gCdnZ2d@giganews.com>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1273526530 31247 127.0.0.1 (10 May 2010 21:22:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 10 May 2010 21:22:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j35g2000yqm.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3724

On May 10, 10:49=A0am, "Dave M" <dgminala4...@mediacombb.net> wrote:
> Bert Hyman wrote:
> > In
> >news:cbf4e19a-3116-446d-8568-93150e072efc@e2g2000yqn.googlegroups.com
> > JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
> >> I bought 3 old cell phones at a yard cell the other day to tinker
> >> with. These are GPS equipped. I was wondering it would be possible to
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> >> we have such a reference that supplies 10Mhz, 1Mhz 1 Hz and I think
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> >> what any of the chips do. Any help would be appreciated.
>
> > Rather than beating your head against a wall trying to figure that
> > out, why not look into a GPS module? You can get a Garmin GPS15 for
> > less than $50.
>
> >https://buy.garmin.com/shop/shop.do?cID=3D157
>
> > I'm sure there are similar products from other makers.
>
```

```
> Bert,
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> really designed with frequency standard capabilities in mind, and it's
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> frequency inside a cell phone, you would likely need to build a good bit =
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> circuitry to get it back to 10 MHz.
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, the
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> They were built for the cellular industry, but unlike the cell phone, the=
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> lot in life was to be a real frequency standard.
> You can find them for approx. $100-$150 USD on Ebay. =A0They are quite
> reliable and are ready to run. =A0You only need a GPS antenna and a PC wi=
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> serial port to run them. =A0After getting them set up with your PC, you c=
an
> disconnect the PC and it will run unattended. =A0The software is free.
> --
> David
> dgminala at mediacombb dot net

I was hoping whether frequency standard or cell phone I was hoping
they all used the same chips. No such luck I guess.

Jimmie



From -5893423875428856139
X-Google-Thread: 241b302a50,2fd5d6b428363f7f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!d39g2000yqa.googlegroups.com!not-for-
mail
From: joeturn <joeturn2000@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cell phone Hack
Date: Mon, 10 May 2010 16:26:38 -0700 (PDT)
Organization: http://groups.google.com
Lines: 64
Message-ID: <66af401c-9083-4366-bc6f-af755f342505@d39g2000yqa.googlegroups.com>
References: <cbf4e19a-3116-446d-8568-93150e072efc@e2g2000yqn.googlegroups.com>
     <Xns9D7491332FA00VeebleFetzer@216.250.188.140>
<QYqdnYfysNRwgXXWnZ2dnUVZ_gCdnZ2d@giganews.com>
     <54b324d1-da81-4ef5-9093-0bdf66d3ccf2@j35g2000yqm.googlegroups.com>
NNTP-Posting-Host: 24.95.252.127
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1273533998 23475 127.0.0.1 (10 May 2010 23:26:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 10 May 2010 23:26:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d39g2000yqa.googlegroups.com; posting-host=24.95.252.127;
     posting-account=TOBUfggAAAC5Ow7sgid-1fbF1N9O6T1h
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1) ; .NET
     CLR 1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0; .NET CLR 2.0.50727;
     .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729; yie8),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3725

On May 10, 5:22=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> On May 10, 10:49=A0am, "Dave M" <dgminala4...@mediacombb.net> wrote:
>
>
>
>
>
> > Bert Hyman wrote:
> > > In
> > >news:cbf4e19a-3116-446d-8568-93150e072efc@e2g2000yqn.googlegroups.com
> > > JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
> > >> I bought 3 old cell phones at a yard cell the other day to tinker
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> > >> take a signal off of these I could use as a time reference. At work
> > >> we have such a reference that supplies 10Mhz, 1Mhz 1 Hz and I think
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>
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> > > out, why not look into a GPS module? You can get a Garmin GPS15 for
> > > less than $50.
>
> > >https://buy.garmin.com/shop/shop.do?cID=3D157
>
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> > frequency inside a cell phone. =A0Even if you could find a stable refer=
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> > frequency inside a cell phone, you would likely need to build a good bi=
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```

```
>
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> > They were built for the cellular industry, but unlike the cell phone, t=
heir
> > lot in life was to be a real frequency standard.
> > You can find them for approx. $100-$150 USD on Ebay. =A0They are quite
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> > serial port to run them. =A0After getting them set up with your PC, you=
 can
> > disconnect the PC and it will run unattended. =A0The software is free.
> > --
> > David
> > dgminala at mediacombb dot net
>
> I was hoping whether frequency standard or cell phone I was hoping
> they all used the same chips. No such luck I guess.
>
> Jimmie- Hide quoted text -
>
> - Show quoted text -

http://www.youtube.com/watch?v=3D0SOva4dqZbc


From -8305111016419590920
X-Google-Thread: 241b302a50,2fd5d6b428363f7f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!novia!news1.optus.net.au!optus!newsfeeder.syd.optusnet.com.au!
news.optusnet.com.au!not-for-mail
Date: Tue, 11 May 2010 15:45:56 +1000
From: Clifford Heath <no@spam.please.net>
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090706)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cell phone Hack
References: <cbf4e19a-3116-446d-8568-93150e072efc@e2g2000yqn.googlegroups.com>
     <Xns9D7491332FA00VeebleFetzer@216.250.188.140>
<QYqdnYfysNRwgXXWnZ2dnUVZ_gCdnZ2d@giganews.com> <54b324d1-
da81-4ef5-9093-0bdf66d3ccf2@j35g2000yqm.googlegroups.com>
In-Reply-To: <54b324d1-da81-4ef5-9093-0bdf66d3ccf2@j35g2000yqm.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 8
Message-ID: <4be8ef14$0$5591$afc38c87@news.optusnet.com.au>
NNTP-Posting-Host: 122.107.198.108
X-Trace: 1273556757  5591 122.107.198.108
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:3726

JIMMIE wrote:
> I was hoping whether frequency standard or cell phone I was hoping
> they all used the same chips. No such luck I guess.

Cell phones have a very high level of integration. In many
phones, there's one RF chip and one for everything else,
and in some, it's all on one chip. Basically there's nothing
except perhaps the display that you can hack.

From -7905901812052147106
X-Google-Thread: 241b302a50,2fd5d6b428363f7f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
news.alt.net!news.kjsl.com!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cell phone Hack
Date: Tue, 11 May 2010 10:11:21 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 32
Sender: et472@72.0.192.105
Message-ID: <Pine.LNX.4.64.1005111006530.20606@darkstar.example.net>
References: <cbf4e19a-3116-446d-8568-93150e072efc@e2g2000yqn.googlegroups.com>
  <Xns9D7491332FA00VeebleFetzer@216.250.188.140>
<QYqdnYfysNRwgXXWnZ2dnUVZ_gCdnZ2d@giganews.com>
 <54b324d1-da81-4ef5-9093-0bdf66d3ccf2@j35g2000yqm.googlegroups.com>
 <4be8ef14$0$5591$afc38c87@news.optusnet.com.au>
NNTP-Posting-Host: 72.0.192.105
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1273587094 18876 72.0.192.105 (11 May 2010 14:11:34 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 11 May 2010 14:11:34 GMT
In-Reply-To: <4be8ef14$0$5591$afc38c87@news.optusnet.com.au>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3727

On Tue, 11 May 2010, Clifford Heath wrote:

> JIMMIE wrote:
>> I was hoping whether frequency standard or cell phone I was hoping
>> they all used the same chips. No such luck I guess.
>
> Cell phones have a very high level of integration. In many
> phones, there's one RF chip and one for everything else,
> and in some, it's all on one chip. Basically there's nothing
> except perhaps the display that you can hack.
>

That contrasts with the early ones, that were a great source of
parts. Even a decade ago, I was still finding the early cellphones,
in big clunky cases, and pretty much all the parts were recognizable
and thus reusable. NE560 compander ICs, 8bit CPUs that could be reused,
IF strips that were often on a small board that could be easily extracted.
TCXOs, crystal filters suitable for use as roofing filters, just lots
of good parts.

I'm not sure where the cutoff point was, but the smaller things got
the less they had parts that were recognizable. Any recent cellphone
has virtually no components, and none are really recognizable and
certainly aren't useful for other purposes.

Even cordless phones seem to have gone that way, a decade ago when
they were still down at the 49MHz range, there were plenty of good
parts, but when they migrated to higher frequencies they got more
integration and fewer useful parts.

    Michael VE2BVW

```
From 1641854434006462479
X-Google-Thread: 241b302a50,2fd5d6b428363f7f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e35g2000yqm.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cell phone Hack
Date: Wed, 12 May 2010 18:23:06 -0700 (PDT)
Organization: http://groups.google.com
Lines: 21
Message-ID: <c373f895-a6ed-4977-89a2-1bee2d59e146@e35g2000yqm.googlegroups.com>
References: <cbf4e19a-3116-446d-8568-93150e072efc@e2g2000yqn.googlegroups.com>
NNTP-Posting-Host: 99.102.224.199
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1273713786 26143 127.0.0.1 (13 May 2010 01:23:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 13 May 2010 01:23:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e35g2000yqm.googlegroups.com; posting-host=99.102.224.199;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
     rv:1.8.1.24pre) Gecko/20100228 K-Meleon/1.5.4,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3728
```

On May 9, 8:50 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:

> I bought 3 old cell phones at a yard cell the other day to tinker
> with. These are GPS equipped. I was wondering it would be possible to
> take a signal off of these I could use as a time reference. At work we
> have such a reference that supplies 10Mhz, 1Mhz 1 Hz and I think there
> are other frequencies. I opened one up and dont have a clue to what
> any of the chips do. Any help would be appreciated.
>
> Jimmie10

hey OM:
There sure are alot of nay sayers here for sure.

Back in the day I used to repair TV's,.Now back then, in sum TV's they
took the NTSC color burst frequency off the IF via a filter, now true
it was a quartz crystal filter.
Wouldn't take much to use a pick up loop and a 10 MHz broadband filter
to pull off the frequency standard in a cell phone.

73 OM
n8zu

From -564586171412197692
X-Google-Thread: 241b302a50,fcd5a1d0918587f1
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!q13g2000vbm.googlegroups.com!not-for-mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer replacement
Date: Fri, 21 May 2010 21:27:32 -0700 (PDT)
Organization: http://groups.google.com
Lines: 37
Message-ID: <72d66a05-1688-44a4-9ff1-4ffb18d3986c@q13g2000vbm.googlegroups.com>
References: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
     <4bf6d6fc-22a6-497c-8073-f5f3026aad29@x3g2000yqd.googlegroups.com>
NNTP-Posting-Host: 142.162.128.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1274502452 5151 127.0.0.1 (22 May 2010 04:27:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 22 May 2010 04:27:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q13g2000vbm.googlegroups.com; posting-host=142.162.128.246;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     GTB6.4),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3729

```
On Apr 19, 12:30=A0pm, AndyS <andysha...@juno.com> wrote:
> On Apr 18, 9:22 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
> > I have an HF amp that uses a single 811A in grounded grid. The power
> > transformer smoked. The transformer was from an old TV set I think it
> > was rated at 540VAC on the sec and I ran it into a voltage doubler for
> > about 1300 VDC =A0. Any info on something I could use as a replacement
> > would be appreciated.
>
> > Jimmie
>
> Andy comments:
>
> =A0 You might investigate using a high voltage transformer from an old
> microwave oven...... =A0If the secondary voltage turns out to be too
> great,
> their construction makes it fairly easy to remove some turns...
>
> =A0 =A0I haven't tried this, .... just something to consider..
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Andy W4OAH

Was also going to suggest an ex-microwave oven transf. Have a number
of scrapped microwave transformers.
Here (Canada) I've checked the ratio between the 115 volt input
winding and the secondary and it's close to 1:20.
In a 230 volt country I guess it would be around 1:10???
The secondary is therefore around 2200 volts RMS. That's toot high;
but if that was half wave rectified through a single diode with a
choke input filtering circuit etc. and capacitors with sufficient
voltage rating you might end up with a suitable 1300 volts or so?
Alternatively various methods of reducing the input voltage from 115
or 230 volts could be experimented with. Voltage bucking (opposing),
removing turns from the secondary or maybe even some sort of voltage
dropping circuit in the input winding?
Of course the 811A needs heater voltage from somewhere as well!
Just thinking out loud!


From 2934903945217828471
X-Google-Thread: 241b302a50,fcd5a1d0918587f1
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!w3g2000vbd.googlegroups.com!not-for-
mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer replacement
Date: Fri, 21 May 2010 21:32:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 77
Message-ID: <7e6a3d72-2610-4f86-82f3-7d7d6421707d@w3g2000vbd.googlegroups.com>
```

```
References: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
     <k8KdnWjdvLm-2FHWnZ2dnUVZ8udi4p2d@pipex.net>
<t8idnVaJF_KuEFHWnZ2dnUVZ_rednZ2d@giganews.com>
     <77a9d291-2efd-4c36-85e6-f3309ba9c5b2@11g2000yqr.googlegroups.com>
     <a133618d-5b23-4e01-b58b-fe1898bef87c@k33g2000yqc.googlegroups.com>
     <49c0ff71-9557-427f-bf41-f03e6fd76e43@c36g2000yqm.googlegroups.com>
NNTP-Posting-Host: 142.162.128.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1274502755 27902 127.0.0.1 (22 May 2010 04:32:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 22 May 2010 04:32:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w3g2000vbd.googlegroups.com; posting-host=142.162.128.246;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     GTB6.4),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3730

On Apr 25, 9:46=A0pm, raypsi <rborow...@gmail.com> wrote:
> On Apr 24, 1:13 am, terry <tsanf...@nf.sympatico.ca> wrote:
>
>
>
>
>
> > On Apr 23, 7:38 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
> > > On Apr 19, 1:03 pm, brian whatcott <betw...@sbcglobal.net> wrote:
>
> > > > highlandham wrote:
> > > > > JIMMIE wrote:
> > > > >> I have an HF amp that uses a single 811A in grounded grid. The p=
ower
> > > > >> transformer smoked. The transformer was from an old TV set I thi=
nk it
> > > > >> was rated at 540VAC on the sec and I ran it into a voltage doubl=
er for
> > > > >> about 1300 VDC =A0. Any info on something I could use as a repla=
cement
> > > > >> would be appreciated.
>
> > > > >> Jimmie
> > > > > =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D
> > > > > If you are in the UK I would be able to help you.
>
> > > > > Frank GM0CSZ/KN6WH =A0 =A0 in northern Scotland
>
> > > > Ha! Jimmie is not being helpful if he does not indicate the primary
> > > > volts he expects to provide.
```

```
>
> > > > One clunky solution is to connect in series the outputs of two 240 =
volt
> > > > secondary =A0transformers, while setting the input tap as low as it=
 will
> > > > go. =A0 Inputs volts, and desired output current and volts would be=
 good
> > > > to know...
>
> > > > Brian W
>
> > > Old TV transformer, 120VAC- Hide quoted text -
>
> > > - Show quoted text -
>
> > Old TV set transformer probably give 350-0-350 that could be voltage
> > doubled to produce say 1200 volts DC filtered and/or stepped up.down
> > by putting some of the other windings in series with say the primary.
> > For example if the 5 volt rectifier heater winding placed in series
> > with the 115 volt primary winding (voltage bucking) it could oppose
> > the input by some four per cent. Putting the 6,3 volt and the 5 volt
> > in series would reduce the primary input voltage by some (5 + 6.3) /
> > 115 =3D 0.098 or roughly ten per cent ........... and so on!
>
> > Tested the voltage ratio of a 115 volt ex microwave oven transformer
> > and it was approximately 20 to 1. =A0Or about 2300 RMS out. If that wer=
e
> > half wave rectified with suitable filtering DC out could be say around
> > 1100 v. DC?
>
> Hey OM:
> Here in the USA a TV transformer with those specs would have to be 50
> years old.
> I used to make a living replacing those transformers.
> An MOT might give you 2300VAC unloaded.
>
> Even at half wave it still has to be filtered
> and with just capacitive filtering you end up with ripple depending on
> the load and peak VDC of 2300/0.707
> 73 OM
> de n8zu- Hide quoted text -
>
> - Show quoted text -

Choke input and big filter caps! Hard to find and expensive!


From 120877060792652746
X-Google-Thread: 241b302a50,cd05ac79ed4a885d,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y12g2000vbr.googlegroups.com!not-for-
```

```
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer replacement
Date: Sat, 22 May 2010 18:25:43 -0700 (PDT)
Organization: http://groups.google.com
Lines: 88
Message-ID: <9dc7757f-d5fa-40e0-b20a-d20759999ad7@y12g2000vbr.googlegroups.com>
References: 7e6a3d72-2610-4f86-82f3-7d7d6421707d@w3g2000vbd.googlegroups.com
NNTP-Posting-Host: 99.71.239.147
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1274577944 22884 127.0.0.1 (23 May 2010 01:25:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 23 May 2010 01:25:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y12g2000vbr.googlegroups.com; posting-host=99.71.239.147;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
     rv:1.8.1.24pre) Gecko/20100228 K-Meleon/1.5.4,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3731

On May 22, 12:32 am, terry <tsanf...@nf.sympatico.ca> wrote:
> On Apr 25, 9:46 pm, raypsi <rborow...@gmail.com> wrote:
>
>
>
> > On Apr 24, 1:13 am, terry <tsanf...@nf.sympatico.ca> wrote:
>
> > > On Apr 23, 7:38 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
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for
> > > > > > >> about 1300 VDC  . Any info on something I could use as a replacement
> > > > > > >> would be appreciated.
>
> > > > > > >> Jimmie
> > > > > > > ==============================
> > > > > > > If you are in the UK I would be able to help you.
>
> > > > > > > Frank GM0CSZ/KN6WH     in northern Scotland
>
> > > > > Ha! Jimmie is not being helpful if he does not indicate the primary
> > > > > volts he expects to provide.
>
> > > > > One clunky solution is to connect in series the outputs of two 240 volt
```

> > > > > secondary transformers, while setting the input tap as low as it will
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> > > > > to know...
>
> > > > > Brian W
>
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> > > > - Show quoted text -
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> > > in series would reduce the primary input voltage by some (5 + 6.3) /
> > > 115 = 0.098 or roughly ten per cent .... and so on!
>
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> > An MOT might give you 2300VAC unloaded.
>
> > Even at half wave it still has to be filtered
> > and with just capacitive filtering you end up with ripple depending on
> > the load and peak VDC of 2300/0.707
> > 73 OM
> > de n8zu- Hide quoted text -
>
> > - Show quoted text -
>
> Choke input and big filter caps! Hard to find and expensive!

Hey OM:

The secondaries of microwave oven transformers make great chokes.
Been there done that.
I've even used them in a pinch on a 13.8 volt power suppy when the
regulator blew out.
Off of 24VDC peak ripple of the 13.8 volt power supply, the primary of
the microwave oven transormer did a great job dropping the voltage
down to 12 volt with no hum after being filtered, just no regulation.
It did a great job choking my 13.8 volt power supply. And running my 2
meter all mode Ten Tec.

You don't need a big filter cap either btw.

73 OM

n8zu

```
From -8811723808185907913
X-Google-Thread: 109125,b513bb0814ec9376,start
X-Google-NewGroupId: yes
X-Google-Thread: 1027f0,b513bb0814ec9376,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,b513bb0814ec9376,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid5c019a59a0,gidf42d3319d3,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!32g2000prq.googlegroups.com!not-for-
mail
From: xiangmei chen <chenxiangmei85@gmail.com>
Newsgroups: rec.games.backgammon,rec.autos.makers.honda,rec.radio.amateur.homebrew
Subject: Hublot Watch (paypal payment) (http://www.cntrade09.com )
Date: Wed, 26 May 2010 00:09:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 12
Message-ID: <69da61f7-206e-44c8-968d-d24ab106247f@32g2000prq.googlegroups.com>
NNTP-Posting-Host: 59.58.157.154
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1274857762 10549 127.0.0.1 (26 May 2010 07:09:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 26 May 2010 07:09:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 32g2000prq.googlegroups.com; posting-host=59.58.157.154;
     posting-account=pSNs2goAAACTbyMbrBeRWnGVyBmFmQyM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     CIBA; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe)
Xref: g2news1.google.com rec.games.backgammon:4666 rec.autos.makers.honda:6720
rec.radio.amateur.homebrew:3435

Hermes Watch (paypal payment) (http://www.cntrade09.com )
 Hublot Watch (paypal payment) (http://www.cntrade09.com )
 IWC Watch (paypal payment) (http://www.cntrade09.com )
 Jaeger Le Coultre Watch (paypal payment) (http://
www.cntrade09.com )
 Longines Watch (paypal payment) (http://www.cntrade09.com )
 LV Watch (paypal payment) (http://www.cntrade09.com )
 Montblanc Watch (paypal payment) (http://www.cntrade09.com )
 Movado Watch (paypal payment) (http://www.cntrade09.com )
 Omega Watch (paypal payment) (http://www.cntrade09.com )
 Oris Watch (paypal payment) (http://www.cntrade09.com )
```

```
From -1152756909540235891
X-Google-Thread: 241b302a50,339a50db2b399ac7,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!transit3.readnews.com!news-
xxxfer.readnews.com!news-out.readnews.com!transit4.readnews.com!
nx02.iad01.newshosting.com!newshosting.com!news.linkpendium.com!
news.linkpendium.com!pit-transit.telstra.net!news.telstra.net!news-
server.bigpond.net.au!53ab2750!not-for-mail
From: "Steve Kelly" <stephen.kelly2@bigpond.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FT736r front end transistor BF982
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Original
Message-ID: <1uWLn.139$BG3.5@news-server.bigpond.net.au>
Date: Fri, 28 May 2010 21:22:05 GMT
NNTP-Posting-Host: 123.211.154.246
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1275081725 123.211.154.246 (Sat, 29 May 2010
07:22:05 EST)
NNTP-Posting-Date: Sat, 29 May 2010 07:22:05 EST
Organization: BigPond Internet Services
Xref: g2news2.google.com rec.radio.amateur.homebrew:3733
```

Hi Guys
The 144 MHz receive rf amp transistor had a mod which replaced the original with a BF982.This transistor has been discontinued and i was wondering if there was a more modern equivalent with a lower noise level.The BF982 is an N channel dual gate 20v 40ma to 200MHz. Any helpful suggestions would be appreciated.
Cheers
Steve VK4ADA

```
From -8250163128074052874
X-Google-Thread: 241b302a50,339a50db2b399ac7,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news2.google.com!news1.google.com!
news.glorb.com!news.linkpendium.com!news.linkpendium.com!pit-transit.telstra.net!
news.telstra.net!news-server.bigpond.net.au!53ab2750!not-for-mail
```

From: "Steve Kelly" <stephen.kelly2@bigpond.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FT736r front end transistor BF982
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5931
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5931
X-RFC2646: Format=Flowed; Original
Message-ID: <O6YLn.147$BG3.62@news-server.bigpond.net.au>
Date: Fri, 28 May 2010 23:13:50 GMT
NNTP-Posting-Host: 123.211.154.246
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1275088430 123.211.154.246 (Sat, 29 May 2010 09:13:50 EST)
NNTP-Posting-Date: Sat, 29 May 2010 09:13:50 EST
Organization: BigPond Internet Services
Xref: g2news2.google.com rec.radio.amateur.homebrew:3734

Hi Guys
The 144 MHz receive rf amp transistor had a mod which replaced the original with a bf982.This transistor has been discontinued and i was wondering if there was a more modern equivalent with a lower noise level.The BF982 is an N channel dual gate 20v 40ma to 200 MHz.Any helpful suggestions would be appreciated.
Cheers
Steve VK4ADA

From 8002593155072628012
X-Google-Thread: 241b302a50,339a50db2b399ac7
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 28 May 2010 20:21:58 -0500
Date: Fri, 28 May 2010 20:22:42 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FT736r front end transistor BF982
References: <O6YLn.147$BG3.62@news-server.bigpond.net.au>
In-Reply-To: <O6YLn.147$BG3.62@news-server.bigpond.net.au>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <fZydnQNtnuuq8Z3RnZ2dnUVZ_hWdnZ2d@giganews.com>

Lines: 19
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
Ie3FyAUeBcRS1WQbwyLKGl3KeKsVqzt5cj9gXugHzPKaVAurfIc1ESGn9fsxGplWzTmEftggxIBoh/s!
nesVn5r0SKAIh8TDByjws1gUebxC0eSSansgPQTpM4Dd4ovhh7GFyJdo2s25pDr2ElRdIcp3R9w=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3735

Steve Kelly wrote:
> Hi Guys
> The 144 MHz receive rf amp transistor had a mod which replaced the original
> with a bf982.This transistor has been discontinued and i was wondering if
> there was a more modern equivalent with a lower noise level.The BF982 is an
> N channel dual gate 20v 40ma to 200 MHz.Any helpful suggestions would be
> appreciated.
> Cheers
> Steve VK4ADA
>
>
I took a quick look for crosses. The combination of 20V 40mA 1.2 dB
noise is quite difficult to match.
There are lower noise UHF devices but they tend to have <20V or < 40ma
max ratings.
Perhaps you should just do the search for a BF982 supplier. They can be
had, though you might pay couple or three bucks for one.

Brian W

From -3199486111434939257
X-Google-Thread: 241b302a50,45be33c6b88b5b2d,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!w3g2000vbd.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: PP GG amp
Date: Sat, 29 May 2010 14:36:00 -0700 (PDT)
Organization: http://groups.google.com
Lines: 7
Message-ID: <e7a7790c-26da-499a-be55-be76e44961e2@w3g2000vbd.googlegroups.com>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1275168960 10931 127.0.0.1 (29 May 2010 21:36:00 GMT)
X-Complaints-To: groups-abuse@google.com

NNTP-Posting-Date: Sat, 29 May 2010 21:36:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w3g2000vbd.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3736

Many years ago when I was a teenager I remember a guy that was
building a push-pull grounded grid amplifier using 8 *811As. I never
got to see if he finished it or not. The only info I have found so far
is little more than an acknowledgment that such a circuit exist. Any
further information would be appreciated.

Jimmie

From -8096221071027251462
X-Google-Thread: 241b302a50,339a50db2b399ac7
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
feeder.erje.net!news.mixmin.net!aioe.org!not-for-mail
From: Andreu <sys1@sci.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FT736r front end transistor BF982
Date: Sat, 29 May 2010 23:41:47 +0200
Organization: Aioe.org NNTP Server
Lines: 21
Message-ID: <hts1nl$hje$1@speranza.aioe.org>
References: <O6YLn.147$BG3.62@news-server.bigpond.net.au>
<fZydnQNtnuuq8Z3RnZ2dnUVZ_hWdnZ2d@giganews.com>
NNTP-Posting-Host: ePo9tK+fuUsB59WJp9nPOw.user.speranza.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Notice: Filtered by postfilter v. 0.8.2
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3737

Please see

http://forums.qrz.com/showthread.php?t=141699

If 988/998 is an option and package is not important
then Farnell has it..

Andreu, EA3CQY

```
brian whatcott wrote:
> Steve Kelly wrote:
>> Hi Guys
>> The 144 MHz receive rf amp transistor had a mod which replaced the
>> original with a bf982.This transistor has been discontinued and i was
>> wondering if there was a more modern equivalent with a lower noise
>> level.The BF982 is an N channel dual gate 20v 40ma to 200 MHz.Any
>> helpful suggestions would be appreciated.
>> Cheers
>> Steve VK4ADA


From 4622764135185614882
X-Google-Thread: 241b302a50,fcd5a1d0918587f1
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!l6g2000vbo.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer replacement
Date: Sat, 29 May 2010 14:43:12 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <2fb2353d-1b0d-4ce6-aa9d-82fe1438c388@l6g2000vbo.googlegroups.com>
References: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1275169392 19095 127.0.0.1 (29 May 2010 21:43:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 29 May 2010 21:43:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l6g2000vbo.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3738

On Apr 18, 10:22=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> I have an HF amp that uses a single 811A in grounded grid. The power
> transformer smoked. The transformer was from an old TV set I think it
> was rated at 540VAC on the sec and I ran it into a voltage doubler for
> about 1300 VDC =A0. Any info on something I could use as a replacement
> would be appreciated.
>
> Jimmie

I never did get a chance to see if my idea would work, I found a
```

suitable replacement transformer and then gave up on the idea until next time. It did seem that getting enough wire wound in the core could be a problem. It may be possible but I don't think that the 1KW transformer I had could be used at that power level. I guessing at maybe 30 to 40% of the max .

Jimmie

```
From -1501102130296635O8
X-Google-Thread: 241b302a50,d0c862f924e66bb,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!goblin3!gin-ad1-unet1.teleglobe.net!
goblin1!goblin2!goblin.stu.neva.ru!feeder.erje.net!news.glorb.com!news2.glorb.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 29 May 2010 23:11:32 -0500
From: Plasmah77 <Plasmah77.6479ad4@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: oscilloscope Model question
Date: Sat, 29 May 2010 23:34:38 +0100
Message-ID: <Plasmah77.6479ad4@radiobanter.com>
Organization: RadioBanter.com
Lines: 19
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-ArFJfbKKcny+jc5/
HVJaT0elYMaRBBZph3NhcUtIdts+3H2yi9Ijtb31fWMgkO1O3TvSclsllhHCdU5!
cs6VautwtX6Bejxkt09ykEbRmoJNBHgkngxSSLpbJ4Hv2JZk3NaAbsfz5W3VHcOBN6BPgQY1hrVE!
h81AaWA=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 11
Xref: g2news2.google.com rec.radio.amateur.homebrew:3739
```

Hi all I'm a newbie here.

I have my first question:

Whats the difference between these two models TEKTRONIX 2215 and the 2215A?

I won a 2215a on ebay and just wanted to know what the A in the model# meant.

Thanks

Jim

--
Plasmah77

From -1321007020450007175
X-Google-Thread: 241b302a50,d0c862f924e66bb
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!23g2000pre.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: oscilloscope Model question
Date: Sat, 29 May 2010 22:16:31 -0700 (PDT)
Organization: http://groups.google.com
Lines: 24
Message-ID: <b39d5d0b-9093-4c3a-8c4d-8bc099b1d372@23g2000pre.googlegroups.com>
References: <Plasmah77.6479ad4@radiobanter.com>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1275196591 4965 127.0.0.1 (30 May 2010 05:16:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 30 May 2010 05:16:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 23g2000pre.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3740

On May 29, 6:34=A0pm, Plasmah77 <Plasmah77.6479...@radiobanter.com>
wrote:
> Hi all I'm a newbie here.
>
> I have my first question:
>
> Whats the difference between these two models TEKTRONIX 2215 and the
> 2215A?
>
> I won a 2215a on ebay and just wanted to know what the A in the model#
> meant.
>
> Thanks
>

> Jim
>
> --
> Plasmah77

I would see if I could download the manuals for each one and compare.
Sometimes the A model will have a few more bells and whistles or be
faster.

JImmie

From -4007487095186748139
X-Google-Thread: 241b302a50,339a50db2b399ac7
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!feeder.erje.net!
news2.arglkargh.de!news.albasani.net!not-for-mail
From: M0WYM <Sansspam@peartreegreen.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FT736r front end transistor BF982
Date: Sun, 30 May 2010 14:48:35 +0100
Organization: albasani.net
Lines: 28
Message-ID: <httqbk$f9u$1@news.albasani.net>
References: <O6YLn.147$BG3.62@news-server.bigpond.net.au>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
TWx3Ye+0EsSrBoMRYVx8CXGAx5U1GGnbTwXwUUhXYfsewmMgePq4bEzQD1EaX5/
MtNDdhr1cKcYKtpfDcSjjIVuTXswvFSmmixnbbOBnPFA0uOfRokpsPWYVZLHMA2IW
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Sun, 30 May 2010 13:48:36 +0000 (UTC)
X-User-ID: PucQ5CtNcCxuBKyp54WT3wOWSwgJV1dal2GtOpKVek79yQjft77IXk/
Zh8lQaLJHqn56iWP1Atwo4+d4fMRvDA==
In-Reply-To: <O6YLn.147$BG3.62@news-server.bigpond.net.au>
Cancel-Lock: sha1:kU/V7EXUuDaAG4fAcT1uXJ893gg=
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.1.9) Gecko/20100423
Thunderbird/3.0.4
X-NNTP-Posting-Host: rRtMB3gEnhdsRloialwu9txOIvZuoFO0CLi7U6++Aig=
Xref: g2news2.google.com rec.radio.amateur.homebrew:3741

On 29/05/10 00:13, Steve Kelly wrote:
> Hi Guys
> The 144 MHz receive rf amp transistor had a mod which replaced the original
> with a bf982.This transistor has been discontinued and i was wondering if
> there was a more modern equivalent with a lower noise level.The BF982 is an
> N channel dual gate 20v 40ma to 200 MHz.Any helpful suggestions would be
> appreciated.
> Cheers
> Steve VK4ADA

>
>

I have a couple of BF981 if they are a suitable substitute, new old
stock, for sale on eBay at the UL below.

Charlie.

--
M0WYM
www.radiowymsey.org

Sales @ radiowymsey
http://shop.ebay.co.uk/gnome7763/m.html?

```
From -8764175950615679914
X-Google-Thread: 241b302a50,65cd84eb0febd6ff,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!6g2000prg.googlegroups.com!not-for-
mail
From: Rhett Heyward <rhetth96@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Hippo XXL RH Hybrid Utility Golf Club-XXL UTILITY
Date: Sun, 30 May 2010 12:50:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 10
Message-ID: <12b21cf1-93bd-4054-9200-487b1fc1c52e@6g2000prg.googlegroups.com>
NNTP-Posting-Host: 180.234.136.230
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1275249046 15396 127.0.0.1 (30 May 2010 19:50:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 30 May 2010 19:50:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 6g2000prg.googlegroups.com; posting-host=180.234.136.230;
     posting-account=eOeaYQoAAADAS7cukFFnvhpdVlB68CV2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-GB; rv:1.9.1.9)
     Gecko/20100315 Firefox/3.5.9 GTB7.0 GTBA,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3742
```

This hot, new hybrid design club from Hippo provides long, high
trajectory shots without the difficulty of the long irons. Graphite
shaft that flexes to maximize distance while maintaining playability.
Club head made of super-hard maraging steel for ongoing durability .

Low center of gravity that allows ball to get airborne quickly with maximum carry . 21-degree loft for optimum distance . Premium velvet grip to withstand wear . Headcover included for protection from the elements . Perfect for all ages and abilities

http://www.canadagolfwarehouse.com/

```
From 5355918813961441167
X-Google-Thread: 241b302a50,d0c862f924e66bb
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!t26g2000prt.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: oscilloscope Model question
Date: Sun, 30 May 2010 13:22:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 29
Message-ID: <19f05c4a-02b2-46ee-a79c-2aa88ee9aa3a@t26g2000prt.googlegroups.com>
References: <Plasmah77.6479ad4@radiobanter.com>
NNTP-Posting-Host: 99.181.127.188
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1275250960 20236 127.0.0.1 (30 May 2010 20:22:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 30 May 2010 20:22:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t26g2000prt.googlegroups.com; posting-host=99.181.127.188;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
     rv:1.8.1.24pre) Gecko/20100228 K-Meleon/1.5.4,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3743
```

On May 29, 6:34 pm, Plasmah77 <Plasmah77.6479...@radiobanter.com>
wrote:
> Hi all I'm a newbie here.
>

Hey OM

Sorry to see you had to post in the homebrew group you must be desperate.

I want to know why you want to know what the difference is, what is the reason for this question?

Lastly back in the day when they made such things mfg's always updated/ upgraded their products.

Just so they could justify the high price, they added more features or improvements onto them.

So to answer your question directly they improved on the 2215 so they named it the 2215A. I can tell you it won't be much of an improvemnet just that there is some slight difference.

I used to   make a living selling electronic equipment. paticularly oscilliscopes.

73 OM
de n8zu

```
From 8010917107509479584
X-Google-Thread: 241b302a50,45be33c6b88b5b2d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!gandalf.srv.welterde.de!news.albasani.net!not-for-mail
From: Pete <pete13245@inet.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PP GG amp
Date: Sun, 30 May 2010 20:23:31 +0000 (UTC)
Organization: albasani.net
Lines: 14
Message-ID: <htuhg3$h6d$1@news.albasani.net>
References: <e7a7790c-26da-499a-be55-be76e44961e2@w3g2000vbd.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
X-Trace: news.albasani.net
laGcAafrtgkzOVDePBycQ20crNptmgnY4HKwMgCW0p2HPHiaXJa+8iJvazuhO2TgWpWIHl3tryzZq7AalW
riTIybVtYkZFcGkgp3CXR9VvMEy0b2TVj4WQOy7WC07ws0
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Sun, 30 May 2010 20:23:31 +0000 (UTC)
X-User-ID: FlLSwN09yy/4lORPbgqiPu4dMBoOsEKNFgJjn6FNd38=
Cancel-Lock: sha1:u8gBiB1ualj3FKWX8BZS5wWPM0E=
X-NNTP-Posting-Host: mB6ItSlMzxvEfJJnUDm24qOluFINNy1qRxUfB/0wRN8=
Xref: g2news2.google.com rec.radio.amateur.homebrew:3744
```

On Sat, 29 May 2010 14:36:00 -0700, JIMMIE wrote:

> Many years ago when I was a teenager I remember a guy that was building
> a push-pull grounded grid amplifier using 8 *811As. I never got to see
> if he finished it or not. The only info I have found so far is little
> more than an acknowledgment that such a circuit exist. Any further
> information would be appreciated.
>
> Jimmie

Though I may be wrong (I often am) a Grounded grid push-pull is not
possible. But I would suggest downloading the manual for the Ameritron
AL-811H amp. It only uses 4 of the tubes but adding another 4 would be
quite simple based on repetition.

```
From -2450498174813706311
X-Google-Thread: 241b302a50,339a50db2b399ac7
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!u20g2000pru.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FT736r front end transistor BF982
Date: Sun, 30 May 2010 13:37:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <77b1df72-1e3c-4fef-a0fe-eae2b9a93f50@u20g2000pru.googlegroups.com>
References: <O6YLn.147$BG3.62@news-server.bigpond.net.au>
<fZydnQNtnuuq8Z3RnZ2dnUVZ_hWdnZ2d@giganews.com>
     <hts1nl$hje$1@speranza.aioe.org>
NNTP-Posting-Host: 99.181.127.188
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1275251865 6006 127.0.0.1 (30 May 2010 20:37:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 30 May 2010 20:37:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u20g2000pru.googlegroups.com; posting-host=99.181.127.188;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
     rv:1.8.1.24pre) Gecko/20100228 K-Meleon/1.5.4,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3745
```

Hey OM:

Give me a break, there is know way the front end is going to use 40 ma
of current. What the heck do you think it's driving the freaking audio
output?

Firstly they aren't going to be using the front end in anything but
class A. That makes the only parameters you have to looky at. are
Vds, gain, Ft, and noise figure. Forget about Pd and Ids. Just looky
at the drain resistor, says it all.

From -7311136834127950606
X-Google-Thread: 241b302a50,339a50db2b399ac7
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!c13g2000vbr.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FT736r front end transistor BF982
Date: Sun, 30 May 2010 13:50:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 15
Message-ID: <0cd7935d-ec5f-48fa-a76c-0a45fe99000a@c13g2000vbr.googlegroups.com>
References: <1uWLn.139$BG3.5@news-server.bigpond.net.au>
NNTP-Posting-Host: 99.181.127.188
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1275252656 4766 127.0.0.1 (30 May 2010 20:50:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 30 May 2010 20:50:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c13g2000vbr.googlegroups.com; posting-host=99.181.127.188;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
     rv:1.8.1.24pre) Gecko/20100228 K-Meleon/1.5.4,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3746

Hey OM:

Find yourself an old RCA/GE TV, well a few years old. Like with a CTC103 and no earlier than CTC77 chassis, yank the UHF front end transistor out of the tuner, it'll be the one closest to the RF jack. The VHF front end is good to 216Mhz and the UHF is good to 900Mhz. And they are all N channel.

I wouldn't worry about noise figure at 144Mhz unless you are doing EME.

I used to make a living repairing RCA/GE tuners

73 OM
 de n8zu

From 2082681653143983824
X-Google-Thread: 241b302a50,2a5143fdff0d8100,start
X-Google-Attributes: gid241b302a50,public,usenet

```
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!goblin3!goblin.stu.neva.ru!
tranq7.tranquility.net!xmission!newsfeed2.telusplanet.net!newsfeed.telus.net!
news.glorb.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 30 May 2010 17:11:26 -0500
From: Plasmah77 <Plasmah77.64897f3@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Probes
Date: Sun, 30 May 2010 21:12:30 +0100
Message-ID: <Plasmah77.64897f3@radiobanter.com>
Organization: RadioBanter.com
Lines: 12
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-eo7HMUEYb3ouoWoavaYq1NU+IVGO0MnlmaEHb/Zqrb11Lm5nvloU30OeKsdE2Oq/
bGlgPADWIVWIFmP!
CLzQqWfNma2loj8ImsI+8J0vED4FvpB5ADMKKEYCVupZPk84drhhrb0qoOON5T4MwBaH9itZFeph!
tKn722A=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 5
Xref: g2news2.google.com rec.radio.amateur.homebrew:3747
```

I need to buy a probe for my oscilloscope which is 60 MHZ.

My question is can I buy a probe that rated 100 MHZ or must I make sure
it is rated 60 MHZ the same as my system?

Thanks

--
Plasmah77

```
From 3453820329145262836
X-Google-Thread: 241b302a50,2a5143fdff0d8100
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!40g2000vbr.googlegroups.com!not-for-
mail
From: Gary <jgboyles@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Probes
```

```
Date: Sun, 30 May 2010 16:48:14 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
Message-ID: <3e0ca5b1-6b48-4a8a-aa0b-e0e8de19fb53@40g2000vbr.googlegroups.com>
References: <Plasmah77.64897f3@radiobanter.com>
NNTP-Posting-Host: 205.188.117.19
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1275263294 20375 127.0.0.1 (30 May 2010 23:48:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 30 May 2010 23:48:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 40g2000vbr.googlegroups.com; posting-host=205.188.117.19;
     posting-account=EDccDAkAAAABP46fNoIwHp5AsVAkR7WJ
User-Agent: G2/1.0
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.2 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-dtc-tb01.proxy.aol.com[CDBC7021] (Prism/1.2.1), HTTP/1.1
     cache-dtc-ae15.proxy.aol.com[CDBC7513] (Traffic-Server/6.1.5 [uScM])
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
     Trident/4.0; GTB6.5; SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
     3.5.30729; InfoPath.2; .NET CLR 3.0.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3749

On May 30, 3:12=EF=BF=BDpm, Plasmah77 <Plasmah77.6489...@radiobanter.com>
wrote:
> I need to buy a probe for my oscilloscope which is 60 MHZ.
>
> My question is can I buy a probe that rated 100 MHZ or must I make sure
> it is rated 60 MHZ the same as my system?
>
> Thanks
>
> --
> Plasmah77

The 100 MHZ probe will work fine.  The 60 MHZ specification on your
scope means its vertical amplifier and display will start to degrade
at 60 MHZ or higher in frequency.  Therefore using a probe with a >60
MHZ rating will allow you to realize all of your scope's capabilities.

Gary N4AST



From 4555159836145630259
X-Google-Thread: fc2a5,dab984f213ddd7b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b6g2000yqi.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
```

```
Subject: Variac Transformer to HV transformer
Date: Sun, 25 Apr 2010 10:35:12 -0700 (PDT)
Organization: http://groups.google.com
Lines: 8
Message-ID: <76d2b6da-29a7-4db2-b855-9d14e9fe5175@b6g2000yqi.googlegroups.com>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1272216912 18394 127.0.0.1 (25 Apr 2010 17:35:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 25 Apr 2010 17:35:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b6g2000yqi.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3648
```

I have a couple of Variac cores less the mechanical wipers. I was thinking of using the Variac as the primary winding and winding the secondary transformer over it.. I have my own ideas about how I would procede with this starting with given the old coil a new insulting coating, maybe Krylon HV coating . Secondary would either be wound for 540VAC or twice that. The transformer this is replacing was a 540vac transformer feeding a voltage doubler. Any ideas and suggestions would be greatly appreciated.

```
From -8455323476777715204
X-Google-Thread: fc2a5,8f88ab2c97158970,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k33g2000prk.googlegroups.com!not-for-
mail
From: fair kalaivani <kalaivanifair66@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Latest News & Games & funny & Earn more Site(parttime & full time)...
Date: Sun, 25 Apr 2010 10:51:47 -0700 (PDT)
Organization: http://groups.google.com
Lines: 28
Message-ID: <6864f062-d29e-4640-be7c-14e006c19d04@k33g2000prk.googlegroups.com>
NNTP-Posting-Host: 59.92.122.80
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1272217907 1142 127.0.0.1 (25 Apr 2010 17:51:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 25 Apr 2010 17:51:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k33g2000prk.googlegroups.com; posting-host=59.92.122.80;
     posting-account=41c0XQoAAAChgrdC5WWz6h8yWWhNTmk8
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3352

Hi friends,

Sania Mirza hot news & Download All software and
Videos....
World number one weightest person News updated...
That Link is given Below :

Earn Rs.2000 daily. no investment.
wanted online internet job workers. job is only
through internet.work part time. you can earn
Rs.750-2000/- daily.these are genuine internet
jobs. no investment required. only serious
enquires please. for more details visit:-
==========================================
http://moredigitalspot.blogspot.com/
==========================================
Are you looking to work from home? home based typing
positions are now being offered by many companies
at present! receive your paychecks every month!
full training provided by the company itself.
no selling required.


All Items of Jobs Search this Link Below :

http://fpp.eifh.biz/index.php?website=b1152




From 4941978753501349453
X-Google-Thread: fc2a5,dab984f213ddd7b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 25 Apr 2010 13:54:33 -0500
Date: Sun, 25 Apr 2010 19:54:31 +0100
From: highlandham <highlandham.nospam@rfburns.eu>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.1.9) Gecko/20100422
Mandriva/3.0.4-0.4mdv2010.0 (2010.0) Thunderbird/3.0.4
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Variac Transformer to HV transformer
References: <76d2b6da-29a7-4db2-b855-9d14e9fe5175@b6g2000yqi.googlegroups.com>
In-Reply-To: <76d2b6da-29a7-4db2-b855-9d14e9fe5175@b6g2000yqi.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
```

Content-Transfer-Encoding: 7bit
Message-ID: <RqqdnZCJWKV0EknWnZ2dnUVZ8vOdnZ2d@pipex.net>
Lines: 21
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.110.145.60
X-Trace: sv3-p8qkbUsZk7O1/3CPqzUQL6A70fNt54HMwsVexyIKeu7UH1BYEpV3MDJGCCehrla4z4oMC4ilwGIwRJL!rJj67PAF+4bb7f+1XuUIk6hxT/zWaqnHkwCILC4EBaysuwhaY15jvJ0dRru3NKrgd6zUbdYYaHZI!t60JGIMZGS2H8USevUGuEIG2Lg==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3650

On 25/04/10 18:35, JIMMIE wrote:
> I have a couple of Variac cores less the mechanical wipers. I was
> thinking of using the Variac as the primary winding and winding the
> secondary transformer over it.. I have my own ideas about how I would
> procede with this starting with given the old coil a new insulting
> coating, maybe Krylon HV coating . Secondary would either be wound for
> 540VAC or twice that. The transformer this is replacing was a 540vac
> transformer feeding a voltage doubler. Any ideas and suggestions would
> be greatly appreciated.

===============================
Yes that could be made into an effective 'toroid' transformer.
Good insulation between current 115/230 winding and secondary winding is crucial. Don't know what Krylon is ,but a sheet type insulation seems very necessary
Suggest you first try with a low secondary voltage
Also check max power   of original variac at 115V input and compare with the HV power required.
Example : If variac was meant for max. 4 Amperes at 115 V ,ie 460VA the secondary pick-off should not exceed that value.

Frank   GM0CSZ / KN6WH

From -6953568871897881533
X-Google-Thread: da6537b9fb,42001f8e405fba12
X-Google-Attributes: gidda6537b9fb,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!news-in-02.newsfeed.easynews.com!easynews.com!easynews!newsfeed3.dallas1.level3.net!news.level3.com!bloom-beacon.mit.edu!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Steampunk VFO?
Date: 25 Apr 2010 14:57:32 -0400

Organization: Former users of Netcom shell (1989-2000)
Lines: 40
Message-ID: <hr23as$2bi$1@panix2.panix.com>
References: <6ad502bb-9b2d-4eb7-a101-a9744562d52a@g23g2000yqn.googlegroups.com>
<hr1le1$622$1@panix2.panix.com> <GoqdnctPLO0g6UnWnZ2dnUVZ_s6dnZ2d@earthlink.com>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1272221853 14706 166.84.1.2 (25 Apr 2010 18:57:33 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 25 Apr 2010 18:57:33 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3651
rec.radio.amateur.boatanchors:4183

Richard Knoppow <dickburk@ix.netcom.com> wrote:
>   I think Federal used the Poulsen arc converter, a
>steady arc where this thing is more closely related to the
>rotary arc, also used in early wireless. There were two
>types of rotary arcs but both operated at much lower
>interuption rates, typically at around 400 hz, and generated
>the RF energy by means of tuned tank circuits.

The tuned tank circuit isn't generating the RF energy, it's just selecting the energy you want.

Interrupt an arc and you get lots of harmonics tied to the interruption rate, going way up. Run it through an RC filter and you can select the particular harmonic you want to transmit, shunting the others to ground (and throwing most of your power away in the process).

The Poulsen used a continuous arc which generated white noise.... you filter that noise out and you get a signal that is narrowband... and the narrower you filter it, the more power you lose. It's a lot less efficient than the rotary, even.

>Federal
>Telegraph held Poulsen patents and exploited them in series
>of wireless telegraph stations mostly on the West coast of
>the USA. The rotary arc is not to be confused with the
>Alexanderson alternator, a mechanical generator of low RF
>energy. The alternator put out fairly pure CW. The
>Alexanderson patents were controlled by General Electric and
>were one of the main reasons for the founding of RCA after
>WW-1, that is, to maintain wireless in the US under US
>control.

The Alexanderson puts out a very nice note.... the problem with it is keeping it on frequency, not phase noise. Oh, also keeping it from flying apart and exploding is another issue. It's a far higher tech device and much more difficult to make... and also not so effective at higher frequencies.
--scott

--
"C'est un Nagra. C'est suisse, et tres, tres precis."

```
From -4639974208867489б1
X-Google-Thread: fc2a5,42001f8e405fba12
X-Google-NewGroupId: yes
X-Google-Thread: fc8b1,42001f8e405fba12
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gidda6537b9fb,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
feeder.erje.net!feeder2.news.elisa.fi!uutiset.elisa.fi!7564ea0f!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Steampunk VFO?
Message-ID: <pn89t5dcdchnbok1cra73uebpeg8alntt6@4ax.com>
References: <6ad502bb-9b2d-4eb7-a101-a9744562d52a@g23g2000yqn.googlegroups.com>
<hr1le1$622$1@panix2.panix.com> <GoqdnctPLO0g6UnWnZ2dnUVZ_s6dnZ2d@earthlink.com>
<hr23as$2bi$1@panix2.panix.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 10
Date: Sun, 25 Apr 2010 23:16:49 +0300
NNTP-Posting-Host: 85.76.105.70
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1272226602 85.76.105.70 (Sun, 25 Apr 2010 23:16:42 EEST)
NNTP-Posting-Date: Sun, 25 Apr 2010 23:16:42 EEST
Organization: Elisa Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:3355
rec.radio.amateur.boatanchors:3828

On 25 Apr 2010 14:57:32 -0400, kludge@panix.com (Scott Dorsey) wrote:

>The Alexanderson puts out a very nice note.... the problem with it is keeping
>it on frequency, not phase noise.  Oh, also keeping it from flying apart and
>exploding is another issue.  It's a far higher tech device and much more
>difficult to make... and also not so effective at higher frequencies.

There is still one functional station (operated one day each year)
http://en.wikipedia.org/wiki/Grimeton_VLF_transmitter
```

```
From -6620986041902204690
X-Google-Thread: fc2a5,dab984f213ddd7b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!u31g2000yqb.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Variac Transformer to HV transformer
```

```
Date: Sun, 25 Apr 2010 15:16:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <3315ed41-3cb5-4cf4-9548-51ded17315f3@u31g2000yqb.googlegroups.com>
References: <76d2b6da-29a7-4db2-b855-9d14e9fe5175@b6g2000yqi.googlegroups.com>
     <RqqdnZCJWKV0EknWnZ2dnUVZ8vOdnZ2d@pipex.net>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1272233806 30697 127.0.0.1 (25 Apr 2010 22:16:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 25 Apr 2010 22:16:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u31g2000yqb.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3653

On Apr 25, 2:54=A0pm, highlandham <highlandham.nos...@rfburns.eu> wrote:
> On 25/04/10 18:35, JIMMIE wrote:> I have a couple of Variac cores less th=
e mechanical wipers. =A0I was
> > thinking of using the Variac as the primary winding and winding the
> > secondary transformer over it.. I have my own ideas about how I would
> > procede with this starting with given the old coil a new insulting
> > coating, maybe Krylon HV coating . Secondary would either be wound for
> > 540VAC or twice that. The transformer this is replacing was a 540vac
> > transformer feeding a voltage doubler. Any ideas and suggestions would
> > be greatly appreciated.
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D
> Yes that could be made into an effective 'toroid' transformer.
> Good insulation between current 115/230 winding and secondary winding is
> crucial. Don't know what Krylon is ,but a sheet type insulation seems
> very necessary
> Suggest you first try with a low secondary voltage
> Also check max power =A0 of original variac at 115V input and compare wit=
h
> the HV power required.
> Example : If variac was meant for max. 4 Amperes at 115 V ,ie 460VA the
> secondary pick-off should not exceed that value.
>
> Frank =A0 =A0 GM0CSZ / KN6WH

I was thinking of spraying the area where the wiper made contact with
the Krylon HV insulating coating an then wrapping on a couple of
layers of Teflon plumbers tape before winding on the secondary.

Jimmie
```

```
From 8992088050409150280
X-Google-Thread: 241b302a50,837529dfd5a58da9,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 25 Apr 2010 18:39:14 -0500
Date: Sun, 25 Apr 2010 23:39:13 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: HP 5245L Counter Oscillator adjust?
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net>
Lines: 13
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-TBUhrw1jkXXLMl4HcfQglHkrnxvYbGjJbgLk6NuY/7jd5NyoN1MD4xj0v/M/Q4/
uO43NPST32qkRdHC!
CNB+18z5Y5oreHhCbIyORxT7hrGl5vJgMKw40G+Nu70rcXBKdnbgLa5dSmLj5uL4uvARQhVGw6nE!
Gk74Fh1liQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3357
```

I'm trying to download a copy of the manual, but at the rate it's downloading, I may have it by Tuesday, April 27th.....2013!

Anyhow...does anyone have a copy of how to set the timebase oscillator frequency? I measure the signal coming out the back of the counter (with another counter) at 10.000066 MHz. I adjusted the "coarse tune" adjustment on the back of the unit and this is as close as it gets to 10.000000 MHz, so I assume there must be some other adjustment somewhere...I took off both covers, but any adjustment control is not blatantly obvious....

Scott
N0EDV

```
From -9063215126611121442
X-Google-Thread: fc2a5,fcd5a1d0918587f1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!c36g2000yqm.googlegroups.com!not-for-
```

```
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer replacement
Date: Sun, 25 Apr 2010 16:46:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 60
Message-ID: <49c0ff71-9557-427f-bf41-f03e6fd76e43@c36g2000yqm.googlegroups.com>
References: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
     <k8KdnWjdvLm-2FHWnZ2dnUVZ8udi4p2d@pipex.net>
<t8idnVaJF_KuEFHWnZ2dnUVZ_rednZ2d@giganews.com>
     <77a9d291-2efd-4c36-85e6-f3309ba9c5b2@11g2000yqr.googlegroups.com>
     <a133618d-5b23-4e01-b58b-fe1898bef87c@k33g2000yqc.googlegroups.com>
NNTP-Posting-Host: 99.92.119.140
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1272239206 31803 127.0.0.1 (25 Apr 2010 23:46:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 25 Apr 2010 23:46:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c36g2000yqm.googlegroups.com; posting-host=99.92.119.140;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
     rv:1.8.1.24pre) Gecko/20100228 K-Meleon/1.5.4,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3358

On Apr 24, 1:13 am, terry <tsanf...@nf.sympatico.ca> wrote:
> On Apr 23, 7:38 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
>
>
> > On Apr 19, 1:03 pm, brian whatcott <betw...@sbcglobal.net> wrote:
>
> > > highlandham wrote:
> > > > JIMMIE wrote:
> > > >> I have an HF amp that uses a single 811A in grounded grid. The power
> > > >> transformer smoked. The transformer was from an old TV set I think it
> > > >> was rated at 540VAC on the sec and I ran it into a voltage doubler for
> > > >> about 1300 VDC  . Any info on something I could use as a replacement
> > > >> would be appreciated.
>
> > > >> Jimmie
> > > > ==============================
> > > > If you are in the UK I would be able to help you.
>
> > > > Frank GM0CSZ/KN6WH     in northern Scotland
>
> > > Ha! Jimmie is not being helpful if he does not indicate the primary
> > > volts he expects to provide.
>
> > > One clunky solution is to connect in series the outputs of two 240 volt
> > > secondary  transformers, while setting the input tap as low as it will
```

> > > go.   Inputs volts, and desired output current and volts would be good
> > > to know...
>
> > > Brian W
>
> > Old TV transformer, 120VAC- Hide quoted text -
>
> > - Show quoted text -
>
> Old TV set transformer probably give 350-0-350 that could be voltage
> doubled to produce say 1200 volts DC filtered and/or stepped up.down
> by putting some of the other windings in series with say the primary.
> For example if the 5 volt rectifier heater winding placed in series
> with the 115 volt primary winding (voltage bucking) it could oppose
> the input by some four per cent. Putting the 6,3 volt and the 5 volt
> in series would reduce the primary input voltage by some (5 + 6.3) /
> 115 = 0.098 or roughly ten per cent .... and so on!
>
> Tested the voltage ratio of a 115 volt ex microwave oven transformer
> and it was approximately 20 to 1. Or about 2300 RMS out. If that were
> half wave rectified with suitable filtering DC out could be say around
> 1100 v. DC?

Hey OM:
Here in the USA a TV transformer with those specs would have to be 50
years old.
I used to make a living replacing those transformers.
An MOT might give you 2300VAC unloaded.

Even at half wave it still has to be filtered
and with just capacitive filtering you end up with ripple depending on
the load and peak VDC of 2300/0.707
73 OM
de n8zu

From 8631483999603793723
X-Google-Thread: fc2a5,42001f8e405fba12
X-Google-NewGroupId: yes
X-Google-Thread: fc8b1,42001f8e405fba12
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gidda6537b9fb,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!12g2000yqi.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Steampunk VFO?
Date: Sun, 25 Apr 2010 17:10:29 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <68820553-c73c-44e9-8e6d-f1352cd82173@12g2000yqi.googlegroups.com>
References: <6ad502bb-9b2d-4eb7-a101-a9744562d52a@g23g2000yqn.googlegroups.com>

```
     <hr1le1$622$1@panix2.panix.com>
<GoqdnctPLO0g6UnWnZ2dnUVZ_s6dnZ2d@earthlink.com>
     <hr23as$2bi$1@panix2.panix.com> <pn89t5dcdchnbok1cra73uebpeg8alntt6@4ax.com>
NNTP-Posting-Host: 99.92.119.140
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1272240629 23878 127.0.0.1 (26 Apr 2010 00:10:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 26 Apr 2010 00:10:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 12g2000yqi.googlegroups.com; posting-host=99.92.119.140;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
     rv:1.8.1.24pre) Gecko/20100228 K-Meleon/1.5.4,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3359
rec.radio.amateur.boatanchors:3829
```

On Apr 25, 4:16 pm, Paul Keinanen <keina...@sci.fi> wrote:

> On 25 Apr 2010 14:57:32 -0400, klu...@panix.com (Scott Dorsey) wrote:
>
> >The Alexanderson puts out a very nice note.... the problem with it is keeping
> >it on frequency, not phase noise. Oh, also keeping it from flying apart and
> >exploding is another issue. It's a far higher tech device and much more
> >difficult to make... and also not so effective at higher frequencies.
>
> There is still one functional station (operated one day each year)http://
en.wikipedia.org/wiki/Grimeton_VLF_transmitter

Hey OM:
From:
http://en.wikipedia.org/wiki/Alexanderson_alternator

"Because of the limits of the number of poles and rotational speed of
a machine, the Alexanderson alternator is at most capable of
transmission in the lower mediumwave band, with shortwave and upper
bands being physically impossible."

Says it all?
73 OM
de n8zu

```
From 8859502270222592941
X-Google-Thread: fc2a5,42001f8e405fba12
X-Google-NewGroupId: yes
X-Google-Thread: fc8b1,42001f8e405fba12
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gidda6537b9fb,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx01.iad01.newshosting.com!
newshosting.com!novia!news-out.readnews.com!news-xxxfer.readnews.com!panix!
```

```
panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Steampunk VFO?
Date: 25 Apr 2010 20:42:39 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 24
Message-ID: <hr2nhv$3i2$1@panix2.panix.com>
References: <6ad502bb-9b2d-4eb7-a101-a9744562d52a@g23g2000yqn.googlegroups.com>
<hr23as$2bi$1@panix2.panix.com> <pn89t5dcdchnbok1cra73uebpeg8alntt6@4ax.com>
<68820553-c73c-44e9-8e6d-f1352cd82173@12g2000yqi.googlegroups.com>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1272242559 14595 166.84.1.2 (26 Apr 2010 00:42:39 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 26 Apr 2010 00:42:39 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3657
rec.radio.amateur.boatanchors:4186

raypsi  <rborowiak@gmail.com> wrote:
>Hey OM:
>From:
> http://en.wikipedia.org/wiki/Alexanderson_alternator
>
>"Because of the limits of the number of poles and rotational speed of
>a machine, the Alexanderson alternator is at most capable of
>transmission in the lower mediumwave band, with shortwave and upper
>bands being physically impossible."
>
>Says it all?

The number of poles is part of the issue, but you'd think with modern
machining technology you could make a big rotor with maybe a thousand
poles.  Problem is that if you do this, the capacitance kills you.

One possibility to run an Alexanderson alternator would be to run it
into a nonlinear device and then select one harmonic out.  Again, it's
very inefficient....
--scott



--
"C'est un Nagra.  C'est suisse, et tres, tres precis."



From -4107664913594253991
X-Google-Thread: fc2a5,42001f8e405fba12
X-Google-NewGroupId: yes
X-Google-Thread: fc8b1,42001f8e405fba12
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gidda6537b9fb,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
```

media.com!newsfe08.iad.POSTED!6ec25d62!not-for-mail
From: "Graeme Zimmer" <gzimmer@wideband.net.au>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
References: <6ad502bb-9b2d-4eb7-a101-a9744562d52a@g23g2000yqn.googlegroups.com>
Subject: Re: Steampunk VFO?
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <es5Bn.91456$kj3.55660@newsfe08.iad>
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Mon, 26 Apr 2010 00:51:22 UTC
Organization: TeraNews.com
Date: Mon, 26 Apr 2010 10:51:17 +1000
Xref: g2news1.google.com rec.radio.amateur.homebrew:3361
rec.radio.amateur.boatanchors:3831

It's been done: Have a look at:

An electro-mechanical RX for VLF.
http://www.wireless.org.uk/mechrx.htm

.... Zim

From -2741107998908022394
X-Google-Thread: fc2a5,837529dfd5a58da9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 25 Apr 2010 20:41:17 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net>
Subject: Re: HP 5245L Counter Oscillator adjust?
Date: Sun, 25 Apr 2010 20:41:16 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <QNSdnUoFYd-gcknWnZ2dnUVZ_qqdnZ2d@giganews.com>
Lines: 48
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-I6o/XkwHJveKR5szKoNTfD9cvUcd0XlPgnR80vTbAIUGbiaULFCBQk6IQAi/
D7OhGQ9kj5clTlLq2xo!MakCCGGkW+inPedd0W/

ZFcZ7d1d+h8y261w+yz+5KQSJV1LifIqLR44ltjaer0rHPUudbwwQ442O
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3362

Scott wrote:
> I'm trying to download a copy of the manual, but at the rate it's
> downloading, I may have it by Tuesday, April 27th.....2013!
>
> Anyhow...does anyone have a copy of how to set the timebase oscillator
> frequency? I measure the signal coming out the back of the counter
> (with another counter) at 10.000066 MHz. I adjusted the "coarse tune"
> adjustment on the back of the unit and this is as close as it gets to
> 10.000000 MHz, so I assume there must be some other adjustment
> somewhere...I took off both covers, but any adjustment control is not
> blatantly obvious....
>
> Scott
> N0EDV

Scott,
I've seen the oven temperature control circuit more likely to cause this type of problem. The fact that the oscillator is working eliminates a lot of circuitry.

Before you do any more adjusting, do this:
Check that the oven temperature control circuit is working. Check to see if the collector of Q1 is in the ballpark of about -21 volts. That point should start out (cold oven) at around -5 volts or so, and go toward -21 volts as the oven warms up. If it stays at the lower voltage, you have a problem with either Q1 or one of the transistors on the oven control assy A25. That same reasoning goes if the voltage at Q1 collector starts out and stays at -35 volts or so.
An extreme cause would be that of the oven heater being open. In that case, the oven assembly is bad, and will need to be replaced. You can attempt ot disassemble the oven and repair the heater, but it's iffy. One of the temp sensor components inside the oven might be bad as well.
If the oven and the oven control is OK, that means that the oscillator is out of tune. That could be caused by the crystal itself, of one of the capacitors inside the oven.

I have an operable oven assembly that we could make a deal on, but since I recently moved from Florida to Alabama and don't have a shop area yet, it's still in storage. If you can wait for a couple of months, I could dig it out for you. You might look on Ebay for an oven; I've seen them offerred there, but not often.

--
David

dgminala at mediacombb dot net

From 3811408231707547417
X-Google-Thread: fc2a5,dab984f213ddd7b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 25 Apr 2010 20:48:02 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <76d2b6da-29a7-4db2-b855-9d14e9fe5175@b6g2000yqi.googlegroups.com>
<RqqdnZCJWKV0EknWnZ2dnUVZ8vOdnZ2d@pipex.net>
<3315ed41-3cb5-4cf4-9548-51ded17315f3@u31g2000yqb.googlegroups.com>
Subject: Re: Variac Transformer to HV transformer
Date: Sun, 25 Apr 2010 20:48:01 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <RbqdnQi7BchPbUnWnZ2dnUVZ_o-dnZ2d@giganews.com>
Lines: 43
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-gnA2/fVDJ9In/SA5zcYnfVxlAnJBu0SSsfPuVDdBVSr3YN8zcGFohCv+/
l94Y8x9TSK4DNA483aIfn2!
6KgRQC+1hrtwUdOM0KJdj+Bm51ZithepxbCycFnE88ngCV7Q8dzJu1hkBLk+Wt7jw+jzm6I+9afS
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3363

JIMMIE wrote:
> On Apr 25, 2:54 pm, highlandham <highlandham.nos...@rfburns.eu> wrote:
>> On 25/04/10 18:35, JIMMIE wrote:> I have a couple of Variac cores
>> less the mechanical wipers. I was
>>> thinking of using the Variac as the primary winding and winding the
>>> secondary transformer over it.. I have my own ideas about how I
>>> would procede with this starting with given the old coil a new
>>> insulting coating, maybe Krylon HV coating . Secondary would either
>>> be wound for 540VAC or twice that. The transformer this is
>>> replacing was a 540vac transformer feeding a voltage doubler. Any
>>> ideas and suggestions would be greatly appreciated.
>>

>> ================================
>> Yes that could be made into an effective 'toroid' transformer.
>> Good insulation between current 115/230 winding and secondary
>> winding is
>> crucial. Don't know what Krylon is ,but a sheet type insulation seems
>> very necessary
>> Suggest you first try with a low secondary voltage
>> Also check max power of original variac at 115V input and compare
>> with
>> the HV power required.
>> Example : If variac was meant for max. 4 Amperes at 115 V ,ie 460VA
>> the
>> secondary pick-off should not exceed that value.
>>
>> Frank GM0CSZ / KN6WH
>
> I was thinking of spraying the area where the wiper made contact with
> the Krylon HV insulating coating an then wrapping on a couple of
> layers of Teflon plumbers tape before winding on the secondary.
>
> Jimmie

I don't think I'd use plumber's tape... it's too flimsy and easily torn or
punctured. I think I'd use a piece of cardboard cut into the shape of the
exposed variac winding and taped in place with high temperature vinyl tape.
--
David
dgminala at mediacombb dot net

From 8244366844520954931
X-Google-Thread: fc2a5,42001f8e405fba12
X-Google-NewGroupId: yes
X-Google-Thread: fc8b1,42001f8e405fba12
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gidda6537b9fb,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!y30g2000yqh.googlegroups.com!not-for-mail
From: The Eternal Squire <eternalsquire@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Steampunk VFO?
Date: Sun, 25 Apr 2010 18:51:34 -0700 (PDT)
Organization: http://groups.google.com
Lines: 12
Message-ID: <56c84975-6c42-4208-9ff2-593a6bc3f4a6@y30g2000yqh.googlegroups.com>
References: <6ad502bb-9b2d-4eb7-a101-a9744562d52a@g23g2000yqn.googlegroups.com>
     <es5Bn.91456$kj3.55660@newsfe08.iad>
NNTP-Posting-Host: 74.39.231.62
Mime-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1272246695 327 127.0.0.1 (26 Apr 2010 01:51:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 26 Apr 2010 01:51:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y30g2000yqh.googlegroups.com; posting-host=74.39.231.62;
    posting-account=NGBBuwoAAACAVxFd0rmWzjv3rJTndRji
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0;
    FunWebProducts; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
    3.0.30618),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3364
rec.radio.amateur.boatanchors:3832

On Apr 25, 6:51=A0pm, "Graeme Zimmer" <gzim...@wideband.net.au> wrote:
> It's been done: Have a look at:
>
> An electro-mechanical RX for VLF.http://www.wireless.org.uk/mechrx.htm
>
> .... Zim

Very elegant!   And no, I believe that photo etching a thousand poles
or more on
a copper-clad should be very possible with laser printing of the
master. The manufacturing
technology wouldn't be steampunk even if the results are :)

From 3910975436401820820
X-Google-Thread: fc2a5,dab984f213ddd7b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y17g2000yqd.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Variac Transformer to HV transformer
Date: Mon, 26 Apr 2010 05:07:14 -0700 (PDT)
Organization: http://groups.google.com
Lines: 45
Message-ID: <f6a238d4-f5e2-4108-9cc2-c38124f6565d@y17g2000yqd.googlegroups.com>
References: <76d2b6da-29a7-4db2-b855-9d14e9fe5175@b6g2000yqi.googlegroups.com>
    <RqqdnZCJWKV0EknWnZ2dnUVZ8vOdnZ2d@pipex.net>
<3315ed41-3cb5-4cf4-9548-51ded17315f3@u31g2000yqb.googlegroups.com>
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Mime-Version: 1.0
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 26 Apr 2010 12:07:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com

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     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
     rv:1.8.1.24pre) Gecko/20100228 K-Meleon/1.5.4,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3365
```

On Apr 25, 6:16 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> On Apr 25, 2:54 pm, highlandham <highlandham.nos...@rfburns.eu> wrote:
>
>
>
> > On 25/04/10 18:35, JIMMIE wrote:> I have a couple of Variac cores less the mechanical wipers. I was
> > > thinking of using the Variac as the primary winding and winding the
> > > secondary transformer over it.. I have my own ideas about how I would
> > > procede with this starting with given the old coil a new insulting
> > > coating, maybe Krylon HV coating . Secondary would either be wound for
> > > 540VAC or twice that. The transformer this is replacing was a 540vac
> > > transformer feeding a voltage doubler. Any ideas and suggestions would
> > > be greatly appreciated.
>
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> > Yes that could be made into an effective 'toroid' transformer.
> > Good insulation between current 115/230 winding and secondary winding is
> > crucial. Don't know what Krylon is ,but a sheet type insulation seems
> > very necessary
> > Suggest you first try with a low secondary voltage
> > Also check max power   of original variac at 115V input and compare with
> > the HV power required.
> > Example : If variac was meant for max. 4 Amperes at 115 V ,ie 460VA the
> > secondary pick-off should not exceed that value.
>
> > Frank   GM0CSZ / KN6WH
>
> I was thinking of spraying the area where the wiper made contact with
> the Krylon HV insulating coating an then wrapping on a couple of
> layers of Teflon plumbers tape before winding on the secondary.
>
> Jimmie

Hey OM:

At 50/60 Hz, Kapton tape is your best bet, over 5000 volts per mil. So
a 2 mil thick tape would give you 10 kilo volts of protection. I
bought sum sheet Kapton on ebay it was rated 7500 volts for one mil
thickness.

I'd get a 1/2 inch wide tape and wrap the toroid twice.

73 OM
de n8zu

```
From 717030698529590536
X-Google-Thread: fc2a5,dab984f213ddd7b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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news.highwinds-media.com!feed-me.highwinds-media.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 26 Apr 2010 13:12:10 -0500
Date: Mon, 26 Apr 2010 19:12:04 +0100
From: highlandham <rfburns@nospam.com>
User-Agent: Thunderbird 2.0.0.22 (X11/20090825)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Variac Transformer to HV transformer
References: <76d2b6da-29a7-4db2-b855-9d14e9fe5175@b6g2000yqi.googlegroups.com>
     <RqqdnZCJWKV0EknWnZ2dnUVZ8vOdnZ2d@pipex.net>
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ueosMsraD+m0fefvaddvnpREeNatPNWhs1S6uPzdDPv1nxzMubz7fespny!tqp/
IXsgdqqMGs2OJDdNBpNwEw==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3663

raypsi wrote:
> On Apr 25, 6:16 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
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>>
>>
>>
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```

```
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>>> Also check max power   of original variac at 115V input and compare with
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>> I was thinking of spraying the area where the wiper made contact with
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>> Jimmie
>
>
> Hey OM:
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> a 2 mil thick tape would give you 10 kilo volts of protection. I
> bought sum sheet Kapton on ebay it was rated 7500 volts for one mil
> thickness.
>
> I'd get a 1/2 inch wide tape and wrap the toroid twice.
>
> 73 OM
> de n8zu
============================
Indeed Kapton tape (tnx N8ZU) is the stuff ,the name of which I couldn't
remember ,which is best for this application .

Frank



From 5499110536410161364
X-Google-Thread: fc2a5,42001f8e405fba12
X-Google-NewGroupId: yes
X-Google-Thread: fc8b1,42001f8e405fba12
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X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!40g2000vbr.googlegroups.com!not-for-
mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Steampunk VFO?
Date: Mon, 26 Apr 2010 13:07:03 -0700 (PDT)
Organization: http://groups.google.com
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Lines: 58
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Complaints-To: groups-abuse@google.com
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     GTB6.4),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3367
rec.radio.amateur.boatanchors:3834

On Apr 25, 11:31=A0am, brian whatcott <betw...@sbcglobal.net> wrote:
> The Eternal Squire wrote:
> > All,
>
> > I'm currently considering a design for making a steampunk radio. =A0I
> > just
> > had an idea for the VFO that I want to run by those who have a far
> > better grasp of the abstract mathematics of harmonics than I do.
>
> > Suppose I have a DC motor running steady at 1000 RPM. =A0Through a
> > X100 set of planetary gears I create a shaft spinning at 20,000 RPM,
> > which is pretty much the upper limit for small drills anyway. =A0 =A0On
> > the
> > shaft is a disk that is an etched circuit board with a star pattern,
> > that is,
> > 500 conductors etched radiating from the center to the edge of the
> > disk.
>
> ***
> =A0 =A0 20,000 rpm, so how many revs a second?
> 20000 rev/minute =A0x =A01/60 minutes/second =3D 333 rev/second
> How many spokes?
> 333 rev/sec x =A0 500 spokes/rev =3D 167000 spokes/sec
>
>
>
> > Now I have a wiper that is laid across the edge of the disk to make or
> > break contact with the outside of the star pattern, with 12 Volts DC
> > potential on the wiper. =A0 Assuming the shaft was conductive and made
> > firm contact with the center of the star pattern, should I see a 10
> > Mhz
> > square wave, suitable for say a switching mixer?
>
```

```
> No, you would see a 167kHz square wave, with plenty of odd harmonics:
> 500 kHz, 833kHz, 1170kHz etc.
>
> > Question: =A0How bad are the phase noise and harmonics likely to be?
>
> The harmonics speak for themselves. Mechanical rotation is hard to keep
> constant.
>
> > Thanks in advance,
>
> > The Eternal Squire
>
> You'rte most welcome
>
> Brian W- Hide quoted text -
>
> - Show quoted text -

Sounds like re-inventing the Alexanderson? rotary alternator
transmitter in Scandinavia?
By the way 167 thousand cycles (167 kilohertz). Is right in the
European 'Long Wave' broadcasting band! For example BBC is on 198
kilohertz just slightly longer than 1500 metres wavelength! (1515
metres).
Not sure what is the point of electromechanical frequency generation?


From -9100228372677875229
X-Google-Thread: fc2a5,42001f8e405fba12
X-Google-NewGroupId: yes
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Path: g2news2.google.com!postnews.google.com!a16g2000vbr.googlegroups.com!not-for-
mail
From: The Eternal Squire <eternalsquire@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Steampunk VFO?
Date: Mon, 26 Apr 2010 13:17:08 -0700 (PDT)
Organization: http://groups.google.com
Lines: 6
Message-ID: <2a1cbc32-96ef-4505-8f6b-4b424b339789@a16g2000vbr.googlegroups.com>
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Complaints-To: groups-abuse@google.com
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3.0.30618),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3665
rec.radio.amateur.boatanchors:4191

> Not sure what is the point of electromechanical frequency generation?- Hide
> quoted text -

Steampunk is an art movement all its own. Working artifacts are
collectible.

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nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 27 Apr 2010 02:24:33 -0500
From: "Richard Knoppow" <dickburk@ix.netcom.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
References: <6ad502bb-9b2d-4eb7-a101-a9744562d52a@g23g2000yqn.googlegroups.com>
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bb7954278713@40g2000vbr.googlegroups.com>
Subject: Re: Steampunk VFO?
Date: Tue, 27 Apr 2010 00:24:25 -0700
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KXguADf294dXuBLNbXraAmE4vKHx3MVPog==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3369
rec.radio.amateur.boatanchors:3837

"terry" <tsanford@nf.sympatico.ca> wrote in message
news:1af4b43b-76cb-4ff6-b949-bb7954278713@40g2000vbr.googlegroups.com...
On Apr 25, 11:31 am, brian whatcott <betw...@sbcglobal.net>
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(1515
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generation?

More like the rotary arc. The Alexanderson was a high-frequency alternator producing pretty pure CW. Several very large ones were built (200KW) operating at long wavelengths, perhaps up to a couple of hundred Khz. Some remained in service for decades.

Rotary arcs were used to generate modulated waves, so called MCW so that the detected code could be read without a modulator at the receiver. Typically they had interruption rates on the order of 500 hz. They were often called "rock crushers" because of the terrific mechanical noise they made.

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@ix.netcom.com

From -2372745866505861870

```
X-Google-Thread: fc2a5,6b336b67242aa2de,start
X-Google-NewGroupId: yes
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Path: g2news1.google.com!postnews.google.com!q31g2000prf.googlegroups.com!not-for-
mail
From: "www.brandtrade10.com" <thetiantang@yahoo.cn>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: hoodies wear ( paypal payment )( http://www.brandtrade10.com)
Date: Tue, 27 Apr 2010 02:21:41 -0700 (PDT)
Organization: http://groups.google.com
Lines: 20
Message-ID: <c41d0b34-79a1-4a12-9293-089ac5975c12@q31g2000prf.googlegroups.com>
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X-Trace: posting.google.com 1272360101 22199 127.0.0.1 (27 Apr 2010 09:21:41 GMT)
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NNTP-Posting-Date: Tue, 27 Apr 2010 09:21:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q31g2000prf.googlegroups.com; posting-host=112.111.165.237;
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1;
     Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
     3.0.30729; MALN),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3370
rec.puzzles.crosswords:7137

 hoodies wear ( paypal payment )( http://www.brandtrade10.com)
fashion hoodie ( paypal payment )( http://www.brandtrade10.com)
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jacket zippers


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mail
From: Andrew VK3BFA <VK3BFA@wia.org.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP 5245L Counter Oscillator adjust?
Date: Tue, 27 Apr 2010 05:45:41 -0700 (PDT)
Organization: http://groups.google.com
Lines: 114
Message-ID: <8c8d823d-de6a-4d3f-b457-38152ae27ef7@y38g2000prb.googlegroups.com>
References: <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net> <QNSdnUoFYd-
gcknWnZ2dnUVZ_qqdnZ2d@giganews.com>
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Content-Transfer-Encoding: quoted-printable
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NNTP-Posting-Date: Tue, 27 Apr 2010 12:45:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y38g2000prb.googlegroups.com; posting-host=218.215.171.44;
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3668

On Apr 26, 11:41=A0am, "Dave M" <dgminala4...@mediacombb.net> wrote:
> Scott wrote:
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In good faith, and hopefully no insult intended or received.

Andrew VK3BFA.

From -4468324572743142867
X-Google-Thread: fc2a5,837529dfd5a58da9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 27 Apr 2010 08:19:47 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net> <QNSdnUoFYd-
gcknWnZ2dnUVZ_qqdnZ2d@giganews.com> <8c8d823d-de6a-4d3f-
b457-38152ae27ef7@y38g2000prb.googlegroups.com>

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Subject: Re: HP 5245L Counter Oscillator adjust?
Date: Tue, 27 Apr 2010 08:19:46 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <Z-ydnS0CBa_ueUvWnZ2dnUVZ_tidnZ2d@giganews.com>
Lines: 126
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-GQD1Gaec2d+xsiKtMoYh3fTpRowP9GahiszS/
vPmFFEn2EZ0qd3Bb73zXPdCTzw8KHwlev1F9bXP6Mm!LpYU//
SDU4lvIeq5Jh+6nwaxN2kckGq0YCPNKzqScXMlCVdDEs4xa1tIYFI3RPQQC6+KNYbha7Z1
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3372

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The 5248L manual is on Agilent's site at
http://cp.literature.agilent.com/litweb/pdf/05248-90001.pdf. I can't say how
similar they are to the 5245L, but the DCUs seem to be the same. I used to
be a calibration tech many years ago, and while I saw many of both
instruments on my bench, I rarely had to repair them; quite reliable. I
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has; significant oscillator error. Both turned out to be problems with the
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From 6000293448049449956
X-Google-Thread: fc2a5,837529dfd5a58da9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!q31g2000prf.googlegroups.com!not-for-mail
From: Andrew VK3BFA <VK3BFA@wia.org.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP 5245L Counter Oscillator adjust?

```
Date: Tue, 27 Apr 2010 06:30:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 140
Message-ID: <0012ddf1-ca9e-4805-8151-9eb620966026@q31g2000prf.googlegroups.com>
References: <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net> <QNSdnUoFYd-
gcknWnZ2dnUVZ_qqdnZ2d@giganews.com>
     <8c8d823d-de6a-4d3f-b457-38152ae27ef7@y38g2000prb.googlegroups.com>
     <Z-ydnS0CBa_ueUvWnZ2dnUVZ_tidnZ2d@giganews.com>
NNTP-Posting-Host: 218.215.171.44
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1272375006 2461 127.0.0.1 (27 Apr 2010 13:30:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Apr 2010 13:30:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q31g2000prf.googlegroups.com; posting-host=218.215.171.44;
     posting-account=Cc0OKgoAAAByqbOIrSIn11gD8DGRk_7t
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3670

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David, than you for the link - will try for it, and hopefully it can
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where the decimal point goes) a bit better.
I was hoping someone like you would stick their head up - helps to

talk to someone who has actually worked on them as a job.....thanks
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```
From -7638657620137070573
X-Google-Thread: 241b302a50,837529dfd5a58da9
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g1g2000pre.googlegroups.com!not-for-
mail
From: Andrew VK3BFA <VK3BFA@wia.org.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP 5245L Counter Oscillator adjust?
Date: Tue, 27 Apr 2010 06:43:18 -0700 (PDT)
Organization: http://groups.google.com
Lines: 138
Message-ID: <8bcd29a1-3e83-4181-9dd1-2a419271a1e3@g1g2000pre.googlegroups.com>
References: <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net> <QNSdnUoFYd-
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     <Z-ydnS0CBa_ueUvWnZ2dnUVZ_tidnZ2d@giganews.com>
NNTP-Posting-Host: 218.215.171.44
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1272375799 14048 127.0.0.1 (27 Apr 2010 13:43:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Apr 2010 13:43:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g1g2000pre.googlegroups.com; posting-host=218.215.171.44;
     posting-account=Cc0OKgoAAAByqbOIrSIn11gD8DGRk_7t
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3671
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> > unless it is at least an order of magnitude BETTER than the HP, any
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a
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> 3x10^-9 per day.
> --
> David
> dgminala at mediacombb dot net

Got it! - thank you. Paid $5 for it as an "under the table" item at a
Hamfest. Missing 2 front panel knobs, but will get it working properly
before I chase them. Got several plug ins for my 5245L, will
investigate if they are compatible..
Still a nice bit of gear....

Andrew VK3BFA.



From 773667055743681846
X-Google-Thread: fc2a5,dab984f213ddd7b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!y17g2000yqd.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Variac Transformer to HV transformer
Date: Tue, 27 Apr 2010 15:34:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <20abbfd0-d891-4844-9c2c-2837c56e40fc@y17g2000yqd.googlegroups.com>
References: <76d2b6da-29a7-4db2-b855-9d14e9fe5175@b6g2000yqi.googlegroups.com>
     <RqqdnZCJWKV0EknWnZ2dnUVZ8vOdnZ2d@pipex.net>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1272407675 30763 127.0.0.1 (27 Apr 2010 22:34:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Apr 2010 22:34:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y17g2000yqd.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3672

On Apr 25, 2:54=A0pm, highlandham <highlandham.nos...@rfburns.eu> wrote:
> On 25/04/10 18:35, JIMMIE wrote:> I have a couple of Variac cores less th=
e mechanical wipers. =A0I was
> > thinking of using the Variac as the primary winding and winding the
> > secondary transformer over it.. I have my own ideas about how I would
> > procede with this starting with given the old coil a new insulting
> > coating, maybe Krylon HV coating . Secondary would either be wound for
> > 540VAC or twice that. The transformer this is replacing was a 540vac
> > transformer feeding a voltage doubler. Any ideas and suggestions would
> > be greatly appreciated.
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D
> Yes that could be made into an effective 'toroid' transformer.
> Good insulation between current 115/230 winding and secondary winding is
> crucial. Don't know what Krylon is ,but a sheet type insulation seems
> very necessary
> Suggest you first try with a low secondary voltage
> Also check max power =A0 of original variac at 115V input and compare wit=
h
> the HV power required.
> Example : If variac was meant for max. 4 Amperes at 115 V ,ie 460VA the
> secondary pick-off should not exceed that value.
> Frank =A0 =A0 GM0CSZ / KN6WH


Frank, I am trying to decide on a wire to wind the secondary with. I
was considering using the wire from some cat6 cable. It appears to be
rated for 1.5 amps per the information I have seen on the internet.
Cat5 is rated at a little over .5 amp. I think current draw will be
around 300 mil at the most.

Jimmie


From -6534630217971239273
X-Google-Thread: fc2a5,837529dfd5a58da9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 27 Apr 2010 19:06:03 -0500
Date: Wed, 28 Apr 2010 00:06:01 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP 5245L Counter Oscillator adjust?
References: <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net> <QNSdnUoFYd-
gcknWnZ2dnUVZ_qqdnZ2d@giganews.com> <8c8d823d-de6a-4d3f-
b457-38152ae27ef7@y38g2000prb.googlegroups.com>
In-Reply-To: <8c8d823d-de6a-4d3f-b457-38152ae27ef7@y38g2000prb.googlegroups.com>
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4if7FtzktVr6h2YNzqDW6TmZ!AM2qf7NElw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3376

Andrew VK3BFA wrote:
> On Apr 26, 11:41 am, "Dave M" <dgminala4...@mediacombb.net> wrote:
>> Scott wrote:
>>> I'm trying to download a copy of the manual, but at the rate it's
>>> downloading, I may have it by Tuesday, April 27th.....2013!
>>> Anyhow...does anyone have a copy of how to set the timebase oscillator
>>> frequency?  I measure the signal coming out the back of the counter
>>> (with another counter) at 10.000066 MHz.  I adjusted the "coarse tune"
>>> adjustment on the back of the unit and this is as close as it gets to
>>> 10.000000 MHz, so I assume there must be some other adjustment
>>> somewhere...I took off both covers, but any adjustment control is not
>>> blatantly obvious....
>>> Scott
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>> Scott,
>> I've seen the oven temperature control circuit more likely to cause this
>> type of problem. The fact that the oscillator is working eliminates a lot of
>> circuitry.
>>
>> Before you do any more adjusting, do this:
>> Check that the oven temperature control circuit is working.  Check to see if
>> the collector of Q1 is in the ballpark of about -21 volts.  That point
>> should start out (cold oven) at around -5 volts or so, and go toward -21
>> volts as the oven warms up.  If it stays at the lower voltage, you have a
>> problem with either Q1 or one of the transistors on the oven control assy
>> A25.  That same reasoning goes if the voltage at Q1 collector starts out and
>> stays at -35 volts or so.
>> An extreme cause would be that of the oven heater being open.  In that case,
>> the oven assembly is bad, and will need to be replaced.  You can attempt ot
>> disassemble the oven and repair the heater, but it's iffy.  One of the temp
>> sensor components inside the oven might be bad as well.
>> If the oven and the oven control is OK, that means that the oscillator is
>> out of tune.  That could be caused by the crystal itself, of one of the
>> capacitors inside the oven.
>>
>> I have an operable oven assembly that we could make a deal on, but since I
>> recently moved from Florida to Alabama and don't have a shop area yet, it's
>> still in storage.  If you can wait for a couple of months, I could dig it
>> out for you. You might look on Ebay for an oven; I've seen them offerred
```

>> there, but not often.
>>
>> --
>> David
>> dgminala at mediacombb dot net
>
> Excuse me for seeming a Patronising Old Bastard here, but I feel some
> basic radio theory is in order here, and to respond to the original
> question......
>
> Quote.
> I measure the signal coming out the back of the counter
>>> (with another counter) at 10.000066 MHz.
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> 10Mhz TXCO? (and does it have a current calibration certificate?) -
> unless it is at least an order of magnitude BETTER than the HP, any
> results will be meaningless. Your comparing the HP ref. signal
> to......what?....

Very accurate. It is our Agilent power meter/freq counter (to 26 GHz)
and has been cal'd.
>
> A easier way is to zero beat the HP TXCO with WWV. Yes, for the
> purists, there are problems with this method, (which are NOT relevant
> here) but if you tune for zerobeat by ear as best you can - by then,
> the S meter should be pulsating (it can see the beat note, you cant
> hear it) and then tune.
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> Get really hi-tech, use a GPS locked counter.

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> And I hope you took notes of the original "frequency" and can take it
> back to this. Its a well aged, ovenized xtal. It will be pretty bloody
> close, unless someone has been into it before you.....

Yes, I did note the original freq.
>
> These things were, in their day, laboratory grade instruments. They
> still are, but have been superseded as technology advanced. You need
> to learn what the display is telling you, and how much is relevant to
> what you do. Its unlikely that you will be building something that
> needs 10>-12 accuracy. (A nominal figure, not going to dig the manual
> out to look)
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> The error you quote is totally insignificant for average amateur (and
> most professional) use.

Well, I'm wanting to measure down to about 10 Hz "accuracy"...in other
words I am measuring 189.XXXXX MHz. This is the XTAL freq. for my
microwave LO that is multipled by 6 to get to 1136 MHz and that is

multiplied by 9 to get to 10224 MHz, for a total multiplication factor
of 54.
>
> If the oven is working, it will get warm. Simple.

Now THAT'S something I need to check. It should be working...the unit
is only a bit over 40 years old! ;)

> Plot the frequency change from cold switch on - see how long it takes
> to stabilise. Do it again, later, when the ambient room temperature
> has changed. If no shift, its OK. And if it is not working......well,
> they ARE fascinating instruments, the service manual a joy to read.
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> HP5248L counter.......got a gating fault, how similar are they to the
> 5245L - any HP test gurus out there?
>
> In good faith, and hopefully no insult intended or received.

None taken. I work on microwave equipment at work all day long and can
get a bit worked up about "being on frequency" ;)

Thanks for the tips...the manual did finally download, so I'll dig into
it soon (the good news is I have two of these, so maybe I'll check the
other one and see how close it is. I just bought the second one for its
3-12 GHz mixer).

Scott
N0EDV
>
> Andrew VK3BFA.
>
>

From 4828477005060258964
X-Google-Thread: fc2a5,837529dfd5a58da9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 27 Apr 2010 19:09:26 -0500
Date: Wed, 28 Apr 2010 00:09:25 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP 5245L Counter Oscillator adjust?
References: <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net> <QNSdnUoFYd-gcknWnZ2dnUVZ_qqdnZ2d@giganews.com> <8c8d823d-de6a-4d3f-b457-38152ae27ef7@y38g2000prb.googlegroups.com> <Z-ydnS0CBa_ueUvWnZ2dnUVZ_tidnZ2d@giganews.com>
In-Reply-To: <Z-ydnS0CBa_ueUvWnZ2dnUVZ_tidnZ2d@giganews.com>
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Content-Transfer-Encoding: 7bit
Message-ID: <Z6KdnRIQSLIr4UrWnZ2dnUVZ_sAAAAAA@bright.net>
Lines: 125
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-eCYcM+RwKxagtGuYHyFV9Ay1UcnzpZFydSRegmHUSpQtjGL7X52kwQLoAFQBCt7JLb+dV/GoANT+8EY!gIuGUj7C1WC2B9+UnwIpQPqpKqQ45Air86Y9NQEzVMnOoDc/J1Z0JPXgJgR/bzrNY9oKrOyeSrtG!kYISBMs51w==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
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Xref: g2news1.google.com rec.radio.amateur.homebrew:3377

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> very significant error.   The original time base spec for the 5245L is
> 3x10^-9 per day.

The oven has been mentioned in a few posts. I will try to establish if
that is working or if that's where the problem lays. I want to use it
to count my 189.XXXXX MHz XTAL freq in my 10 GHz transverter. I need
pretty good accuracy since this XTAL is multiplied by a factor of 54 in
the LO chain. Thanks for the tip!

Scott
N0EDV

From -1850749398183557692
X-Google-Thread: fc2a5,837529dfd5a58da9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!z3g2000yqz.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew

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Subject: Re: HP 5245L Counter Oscillator adjust?
Date: Tue, 27 Apr 2010 19:27:47 -0700 (PDT)
Organization: http://groups.google.com
Lines: 140
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References: <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net> <QNSdnUoFYd-
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     <Z-ydnS0CBa_ueUvWnZ2dnUVZ_tidnZ2d@giganews.com>
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NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 28 Apr 2010 02:27:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z3g2000yqz.googlegroups.com; posting-host=71.75.73.222;
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Xref: g2news2.google.com rec.radio.amateur.homebrew:3675

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> >>> Scott wrote:
> >>>> I'm trying to download a copy of the manual, but at the rate it's
> >>>> downloading, I may have it by Tuesday, April 27th.....2013!
> >>>> Anyhow...does anyone have a copy of how to set the timebase
> >>>> oscillator frequency? I measure the signal coming out the back of
> >>>> the counter (with another counter) at 10.000066 MHz. I adjusted the
> >>>> "coarse tune" adjustment on the back of the unit and this is as
> >>>> close as it gets to
> >>>> 10.000000 MHz, so I assume there must be some other adjustment
> >>>> somewhere...I took off both covers, but any adjustment control is
> >>>> not blatantly obvious....
> >>>> Scott
> >>>> N0EDV
> >>> Scott,
> >>> I've seen the oven temperature control circuit more likely to cause
> >>> this type of problem. The fact that the oscillator is working
> >>> eliminates a lot of circuitry.
>
> >>> Before you do any more adjusting, do this:
> >>> Check that the oven temperature control circuit is working. Check to
> >>> see if the collector of Q1 is in the ballpark of about -21 volts.
> >>> That point should start out (cold oven) at around -5 volts or so,
> >>> and go toward -21 volts as the oven warms up. If it stays at the
> >>> lower voltage, you have a problem with either Q1 or one of the
```

> >>> transistors on the oven control assy A25. That same reasoning goes
> >>> if the voltage at Q1 collector starts out and stays at -35 volts or
> >>> so.
> >>> An extreme cause would be that of the oven heater being open. In
> >>> that case, the oven assembly is bad, and will need to be replaced.
> >>> You can attempt ot disassemble the oven and repair the heater, but
> >>> it's iffy. One of the temp sensor components inside the oven might
> >>> be bad as well.
> >>> If the oven and the oven control is OK, that means that the
> >>> oscillator is out of tune. That could be caused by the crystal
> >>> itself, of one of the capacitors inside the oven.
>
> >>> I have an operable oven assembly that we could make a deal on, but
> >>> since I recently moved from Florida to Alabama and don't have a shop
> >>> area yet, it's still in storage. If you can wait for a couple of
> >>> months, I could dig it out for you. You might look on Ebay for an
> >>> oven; I've seen them offerred there, but not often.
>
> >>> --
> >>> David
> >>> dgminala at mediacombb dot net
> >> Excuse me for seeming a Patronising Old Bastard here, but I feel some
> >> basic radio theory is in order here, and to respond to the original
> >> question......
>
> >> Quote.
> >> =A0I measure the signal coming out the back of the counter
> >>>> (with another counter) at 10.000066 MHz.
> >> Response.
> >> How accurate is the frequency counter you are using to measure the
> >> 10Mhz TXCO? =A0(and does it have a current calibration certificate?) -
> >> unless it is at least an order of magnitude BETTER than the HP, any
> >> results will be meaningless. =A0Your comparing the HP ref. signal
> >> to......what?....
>
> >> A easier way is to zero beat the HP TXCO with WWV. Yes, for the
> >> purists, there are problems with this method, (which are NOT relevant
> >> here) but if you tune for zerobeat by ear as best you can - by then,
> >> the S meter should be pulsating (it can see the beat note, you cant
> >> hear it) and then tune.
>
> >> Get really hi-tech, use a GPS locked counter.
>
> >> And I hope you took notes of the original "frequency" and can take it
> >> back to this. Its a well aged, ovenized xtal. It will be pretty bloody
> >> close, unless someone has been into it before you.....
>
> >> These things were, in their day, laboratory grade instruments. They
> >> still are, but have been superseded as technology advanced. You need
> >> to learn what the display is telling you, and how much is relevant to
> >> what you do. Its unlikely that you will be building something that
> >> needs 10>-12 accuracy. (A nominal figure, not going to dig the manual
> >> out to look)

```
>
> >> The error you quote is totally insignificant for average amateur (and
> >> most professional ) use.
>
> >> If the oven is working, it will get warm. Simple.
> >> Plot the frequency change from cold switch on - see how long it takes
> >> to stabilise. Do it again, later, when the ambient room temperature
> >> has changed. If no shift, its OK. And if it is not working......well,
> >> they ARE fascinating instruments, the service manual a joy to read.
> >> (Bout the size of the phone book) They even give Boolean equations for
> >> it. =A0You could be entranced by 1960's technology - if you so choose.
> >> <g>
>
> >> Later model ones had a "Oven"light on the front panel - if it was out
> >> after warm-up, then it was ok. BTW - anyone got a service manual for a
> >> HP5248L counter.......got a gating fault, how similar are they to the
> >> 5245L - any HP test gurus out there?
>
> >> In good faith, and hopefully no insult intended or received.
>
> >> Andrew VK3BFA.
>
> > The 5248L manual is on Agilent's site at
> >http://cp.literature.agilent.com/litweb/pdf/05248-90001.pdf. I can't say=
 how
> > similar they are to the 5245L, but the DCUs seem to be the same. =A0I u=
sed to
> > be a calibration tech many years ago, and while I saw many of both
> > instruments on my bench, I rarely had to repair them; quite reliable. =
=A0I
> > remember two cases where the counters exhibited the exact problem the O=
P
> > has; significant oscillator error. =A0Both turned out to be problems wi=
th the
> > oven control circuit.
>
> > I have to disagree with your statement that the OP's error is insignigi=
cant
> > for professional use. =A0That might be true for some hobbiest uses, but=
 for
> > many amateur radio operators and certainly for professional use, =A0it'=
s a
> > very significant error. =A0 The original time base spec for the 5245L i=
s
> > 3x10^-9 per day.
>
> The oven has been mentioned in a few posts. =A0I will try to establish if
> that is working or if that's where the problem lays. =A0I want to use it
> to count my 189.XXXXX MHz XTAL freq in my 10 GHz transverter. =A0I need
> pretty good accuracy since this XTAL is multiplied by a factor of 54 in
> the LO chain. =A0Thanks for the tip!
>
> Scott
```

> N0EDV

QST had an article on GPS frequency standard. Something you might want
to check into. I think it was a construction project.

Jimmie

```
From 7824382412743395546
X-Google-Thread: fc2a5,3512e277772a9620,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!goblin3!goblin.stu.neva.ru!
news.szaf.org!weretis.net!feeder1.news.weretis.net!newsfeed.utanet.at!
newsfeed01.chello.at!newsfeed.arcor.de!feeder.news-service.com!
feeder1.cambriumusenet.nl!feed.tweaknews.nl!209.197.12.242.MISMATCH!
nx01.iad01.newshosting.com!newshosting.com!69.16.185.16.MISMATCH!
npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 27 Apr 2010 23:12:03 -0500
From: Jmorgan12003 <Jmorgan12003.61d6ae3@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: CB telephone
Date: Wed, 28 Apr 2010 01:04:02 +0100
Message-ID: <Jmorgan12003.61d6ae3@radiobanter.com>
Organization: RadioBanter.com
Lines: 25
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-1hX2Ad3YJv3hqfdkRpQYAhLSPxp76XCaf5s+989hKxT2PePugNq1WVKQs6IdSn3zp76q/
O9gSQt8OAS!
nBonlyf1LcUEKoFwe0HN5O+p1/3cACcNz06V+naDGK1JxQtcRDoRDZxTCKNhggv9aAJ5Enn7uBiu!
2ZhwBtfPh8I=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 5
Xref: g2news2.google.com rec.radio.amateur.homebrew:3676
```

Hey everyone! First time poster here.

I was wanting to convert a CB radio into a telephone. I don't want to
use a patch, just replace the CB's innards with telephone so I can use
the CB in place of my current phone. I know dialing would be difficult
but I can always use one of the other phones for that. Basically, I
figure I can use the on/off toggle (or another toggle) to pick up the
line, use the mic as usual, etc. I do a lot of work from home and I
thought it would be pretty cool to be able to use an old CB with the

added bonus of not having my voice transmit when I'm holding the PTT button so clients, co-workers, etc. won't hear me when I laugh at the dog or something, lol.

Has anyone ever done something like this before? If so, can you point me in the right direction? Currently, I haven't started the project yet and haven't bought any of the equipment so it's a blank slate so far. I was looking at getting an old CB off ebay or something for the unit. Any help y'all could give me would be greatly appreciated.
Thanks and have a good one!

--
Jmorgan12003

```
From 2766302282238814996
X-Google-Thread: fc2a5,d196c9370e73754a,start
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,d196c9370e73754a,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j20g2000prn.googlegroups.com!not-for-
mail
From: goodshoes <dfmkdg56565@yahoo.cn>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: telescope ed ( paypal payment )( http://www.brandtrade10.com)
Date: Wed, 28 Apr 2010 01:43:48 -0700 (PDT)
Organization: http://groups.google.com
Lines: 24
Message-ID: <1262d0ad-cda4-4197-86d2-cac3d1267a51@j20g2000prn.googlegroups.com>
NNTP-Posting-Host: 59.58.139.69
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1272444228 27501 127.0.0.1 (28 Apr 2010 08:43:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 28 Apr 2010 08:43:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j20g2000prn.googlegroups.com; posting-host=59.58.139.69;
     posting-account=5hzQTwoAAADin_EXAUnjB61o2jWIFCDm
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1;
     Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
     3.0.30729; MALN),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3677
rec.puzzles.crosswords:7689
```

ed brand women tshirts (paypal payment)(http://www.brandtrade10.com)

ed long sleeve tshirt (paypal payment)(http://www.brandtrade10.com)
ed t-shirt (paypal payment)(http://www.brandtrade10.com)
100 % cotton t-shirts (paypal payment)(http://www.brandtrade10.com)
fashion tshirts (paypal payment)(http://www.brandtrade10.com)
ed shorts (paypal payment)(http://www.brandtrade10.com)
brand tshirts (paypal payment)(http://www.brandtrade10.com)
jacket ed (paypal payment)(http://www.brandtrade10.com)
fashion ed t-shirts (paypal payment)(http://www.brandtrade10.com)
male ed (paypal payment)(http://www.brandtrade10.com)
telescope ed (paypal payment)(http://www.brandtrade10.com)
cap ed (paypal payment)(http://www.brandtrade10.com)
cotton tshirts (paypal payment)(http://www.brandtrade10.com)
polo tshirt View less
mans polo tshirt (paypal payment)(http://www.brandtrade10.com)
man fashion tshirts (paypal payment)(http://www.brandtrade10.com)
fashion tshirt (paypal payment)(http://www.brandtrade10.com)
cotton tshirts (paypal payment)(http://www.brandtrade10.com)
men's tshirt (paypal payment)(http://www.brandtrade10.com)
spider man (paypal payment)(http://www.brandtrade10.com)
brand tshirt (paypal payment)(http://www.brandtrade10.com)
iron man (paypal payment)(http://www.brandtrade10.com)

```
From -7296413862274982719
X-Google-Thread: fc2a5,837529dfd5a58da9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 28 Apr 2010 06:08:00 -0500
Date: Wed, 28 Apr 2010 11:07:59 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP 5245L Counter Oscillator adjust?
References: <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net> <QNSdnUoFYd-
gcknWnZ2dnUVZ_qqdnZ2d@giganews.com>  <8c8d823d-de6a-4d3f-
b457-38152ae27ef7@y38g2000prb.googlegroups.com>    <Z-
ydnS0CBa_ueUvWnZ2dnUVZ_tidnZ2d@giganews.com>
<Z6KdnRIQSLIr4UrWnZ2dnUVZ_sAAAAAA@bright.net> <1a1a1f5a-148b-4917-
acc1-08d0a247f01b@z3g2000yqz.googlegroups.com>
In-Reply-To: <1a1a1f5a-148b-4917-acc1-08d0a247f01b@z3g2000yqz.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <RridnZ0ERpiNikXWnZ2dnUVZ_sudnZ2d@bright.net>
Lines: 14
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-NVe5GB1lyNGRUFBapqoLu1JWo1W/
Ev7mUk5U2+58VdRQezY4gxszEbmxgINwhcJ0TKQiN+3Mql6VZax!
```

```
Hl0nq1Z7iN5HNZBBILQ+oCsGOomaolPDQHu6SHB99ZMa4YSls9OvQTR7tFih4/DSgPy9MzwcEA3w!
MqH8HyHwWw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3678
```

JIMMIE wrote:

>
> QST had an article on GPS frequency standard. Something you might want
> to check into. I think it was a construction project.
>
> Jimmie

Well, it certainly shouldn't be too hard to do. I think the 5245L uses
a 1 MHz signal for the external timebase input, so it might just be a
matter of dividing the 10 MHz output signal that the GPSDOs that I'm
familiar with and supplying it to the external timebase input...

```
From -4830481396888487188
X-Google-Thread: 241b302a50,7d72209d83070175,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h9g2000yqm.googlegroups.com!not-for-
mail
From: fitz <zeusrdx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Over 4 Decades of Dan Fitzpatrick's Books, Papers & Thoughts - All
     FREE.
Date: Wed, 28 Apr 2010 16:19:38 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <1e713657-1fe2-480d-bb78-2b02a4739fd3@h9g2000yqm.googlegroups.com>
NNTP-Posting-Host: 64.53.76.107
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1272496778 20205 127.0.0.1 (28 Apr 2010 23:19:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 28 Apr 2010 23:19:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h9g2000yqm.googlegroups.com; posting-host=64.53.76.107;
     posting-account=A451vgoAAAByc Jv5ugpkfX8QG96-xuRZ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0;
     Trident/4.0; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
     3.0.30618; yie8),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3679
```

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No Ads with these either!.

(click link)

http://www.amperefitz.com/4.decades.htm

In this day and age this is simply Incredible!.

Enjoy!

```
From -5070642254795550159
X-Google-Thread: 241b302a50,dab984f213ddd7b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 28 Apr 2010 18:27:56 -0500
Date: Thu, 29 Apr 2010 00:27:55 +0100
From: highlandham <highlandham.nospam@rfburns.eu>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.1.9) Gecko/20100422
Mandriva/3.0.4-0.4mdv2010.0 (2010.0) Thunderbird/3.0.4
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Variac Transformer to HV transformer
References: <76d2b6da-29a7-4db2-b855-9d14e9fe5175@b6g2000yqi.googlegroups.com>
     <RqqdnZCJWKV0EknWnZ2dnUVZ8vOdnZ2d@pipex.net> <20abbfd0-
d891-4844-9c2c-2837c56e40fc@y17g2000yqd.googlegroups.com>
In-Reply-To: <20abbfd0-d891-4844-9c2c-2837c56e40fc@y17g2000yqd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Yt2dnfwLZvDhWUXWnZ2dnUVZ7tKdnZ2d@pipex.net>
Lines: 51
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.110.145.60
X-Trace: sv3-
E4Hq6Sps0ZxytqCZLpx7YKqEca4cgKrDxvhUvuTBxUgT+Do9h2Tt4QqC+RuOWusa+KxVRYlq6El6hd4!
yUBUZAuR/hygp5fA21C80tok7dRzBZoV/inw+guclqQz5umgwBLkQCk4SnnaxrYeICtZ/nffwTNr!
sgonBMrfKpo0XxgirqZm/ieG3w==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:3680

On 27/04/10 23:34, JIMMIE wrote:
> On Apr 25, 2:54 pm, highlandham<highlandham.nos...@rfburns.eu> wrote:
>> On 25/04/10 18:35, JIMMIE wrote:> I have a couple of Variac cores less the mechanical wipers. I was
>>> thinking of using the Variac as the primary winding and winding the
>>> secondary transformer over it.. I have my own ideas about how I would
>>> procede with this starting with given the old coil a new insulting
>>> coating, maybe Krylon HV coating . Secondary would either be wound for
>>> 540VAC or twice that. The transformer this is replacing was a 540vac
>>> transformer feeding a voltage doubler. Any ideas and suggestions would
>>> be greatly appreciated.
>>
>> ================================
>> Yes that could be made into an effective 'toroid' transformer.
>> Good insulation between current 115/230 winding and secondary winding is
>> crucial. Don't know what Krylon is ,but a sheet type insulation seems
>> very necessary
>> Suggest you first try with a low secondary voltage
>> Also check max power   of original variac at 115V input and compare with
>> the HV power required.
>> Example : If variac was meant for max. 4 Amperes at 115 V ,ie 460VA the
>> secondary pick-off should not exceed that value.
>> Frank   GM0CSZ / KN6WH
>
>
> Frank, I am trying to decide on a wire to wind the secondary with. I
> was considering using the wire from some cat6 cable. It appears to be
> rated for 1.5 amps per the information I have seen on the internet.
> Cat5 is rated at a little over .5 amp. I think current draw will be
> around 300 mil at the most.
>
> Jimmie

==

To check number of turns and hence total length of wire required for
say 2x540V=1080V check number of turns by temporarily winding 10 turns
and measure secondary voltage .

If you wish to draw up to 300mA at 1080V the rating is to be not less
than 350VA . The existing variac must be able to deliver that.

Both cat 5 and 6 cable has (plastic?) insulated wire not teflon. So
there might be a max temperature problem affecting the insulation .
My suggestion is to source good quality enameled wire and make secondary
winding with 1 length of wire, not with a number of shorter length
unless each shorter length is connected outside the secundary winding
envelope (so joining several lengths and insulating the joints with for
example heat shrink is not recommended)

An interesting project ......good luck

Frank GM0CSZ / KN6WH

```
From -1425722755513363311
X-Google-Thread: 241b302a50,dab984f213ddd7b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l32g2000yqm.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Variac Transformer to HV transformer
Date: Thu, 29 Apr 2010 03:15:07 -0700 (PDT)
Organization: http://groups.google.com
Lines: 63
Message-ID: <0635cd3a-601c-4a4f-ac2a-60e7a5181004@l32g2000yqm.googlegroups.com>
References: <76d2b6da-29a7-4db2-b855-9d14e9fe5175@b6g2000yqi.googlegroups.com>
     <RqqdnZCJWKV0EknWnZ2dnUVZ8vOdnZ2d@pipex.net> <20abbfd0-
d891-4844-9c2c-2837c56e40fc@y17g2000yqd.googlegroups.com>
     <Yt2dnfwLZvDhWUXWnZ2dnUVZ7tKdnZ2d@pipex.net>
NNTP-Posting-Host: 99.92.119.140
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1272536110 23332 127.0.0.1 (29 Apr 2010 10:15:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 29 Apr 2010 10:15:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l32g2000yqm.googlegroups.com; posting-host=99.92.119.140;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
     rv:1.8.1.24pre) Gecko/20100228 K-Meleon/1.5.4,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3681

On Apr 28, 7:27 pm, highlandham <highlandham.nos...@rfburns.eu> wrote:
> On 27/04/10 23:34, JIMMIE wrote:
>
> > On Apr 25, 2:54 pm, highlandham<highlandham.nos...@rfburns.eu>  wrote:
> >> On 25/04/10 18:35, JIMMIE wrote:>  I have a couple of Variac cores less the
mechanical wipers.  I was
> >>> thinking of using the Variac as the primary winding and winding the
> >>> secondary transformer over it.. I have my own ideas about how I would
> >>> procede with this starting with given the old coil a new insulting
> >>> coating, maybe Krylon HV coating . Secondary would either be wound for
> >>> 540VAC or twice that. The transformer this is replacing was a 540vac
> >>> transformer feeding a voltage doubler. Any ideas and suggestions would
> >>> be greatly appreciated.
>
> >> ==============================
> >> Yes that could be made into an effective 'toroid' transformer.
> >> Good insulation between current 115/230 winding and secondary winding is
> >> crucial. Don't know what Krylon is ,but a sheet type insulation seems
```

> >> very necessary
> >> Suggest you first try with a low secondary voltage
> >> Also check max power   of original variac at 115V input and compare with
> >> the HV power required.
> >> Example : If variac was meant for max. 4 Amperes at 115 V ,ie 460VA the
> >> secondary pick-off should not exceed that value.
> >> Frank   GM0CSZ / KN6WH
>
> > Frank, I am trying to decide on a wire to wind the secondary with. I
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> > Cat5 is rated at a little over .5 amp. I think current draw will be
> > around 300 mil at the most.
>
> > Jimmie
>
> ==
> To check number of turns and hence total length of wire required for
> say 2x540V=1080V check number of turns by temporarily winding 10 turns
> and measure secondary voltage .
>
> If you wish to draw up to 300mA at 1080V the rating is to be not less
> than 350VA . The existing variac must be able to deliver that.
>
> Both cat 5 and 6 cable has (plastic?) insulated wire not teflon. So
> there might be a max temperature problem affecting the insulation .
> My suggestion is to source good quality enameled wire and make secondary
> winding with 1 length of wire, not with a number of shorter length
> unless each shorter length is connected outside the secundary winding
> envelope (so joining several lengths and insulating the joints with for
> example heat shrink is not recommended)
>
> An interesting project ......good luck
>
> Frank GM0CSZ / KN6WH

Hey OM:

Back in the day I used to make a living selling Kapton coated magnet
wire.

That stuff was so great, we used to say that the copper would melt,
before the Kapton insulation would turn to carbon.

73 OM
de n8zu

From 298379013430084539
X-Google-Thread: 241b302a50,dab984f213ddd7b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII

```
Path: g2news2.google.com!postnews.google.com!x20g2000yqb.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Variac Transformer to HV transformer
Date: Thu, 29 Apr 2010 07:28:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 87
Message-ID: <a27196c3-7331-4d14-9399-c3b4de9448eb@x20g2000yqb.googlegroups.com>
References: <76d2b6da-29a7-4db2-b855-9d14e9fe5175@b6g2000yqi.googlegroups.com>
     <RqqdnZCJWKV0EknWnZ2dnUVZ8vOdnZ2d@pipex.net> <20abbfd0-
d891-4844-9c2c-2837c56e40fc@y17g2000yqd.googlegroups.com>
     <Yt2dnfwLZvDhWUXWnZ2dnUVZ7tKdnZ2d@pipex.net> <0635cd3a-601c-4a4f-
ac2a-60e7a5181004@l32g2000yqm.googlegroups.com>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1272551335 8150 127.0.0.1 (29 Apr 2010 14:28:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 29 Apr 2010 14:28:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x20g2000yqb.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3682

On Apr 29, 6:15=A0am, raypsi <rborow...@gmail.com> wrote:
> On Apr 28, 7:27 pm, highlandham <highlandham.nos...@rfburns.eu> wrote:
>
>
>
> > On 27/04/10 23:34, JIMMIE wrote:
>
> > > On Apr 25, 2:54 pm, highlandham<highlandham.nos...@rfburns.eu> =A0wro=
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> > >> On 25/04/10 18:35, JIMMIE wrote:> =A0I have a couple of Variac cores=
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> > >>> be greatly appreciated.
>
> > >> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D
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> > > Frank, I am trying to decide on a wire to wind the secondary with. I
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> > =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
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> Hey OM:
>
> Back in the day I used to make a living selling Kapton coated magnet
> wire.
>
```

> That stuff was so great, we used to say that the copper would melt,
> before the Kapton insulation would turn to carbon.
>
> 73 OM
> de n8zu

I guess I will have to get a couple of rolls.

Jimmie

From -7831957362635473707
X-Google-Thread: 241b302a50,dab984f213ddd7b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew
References: <76d2b6da-29a7-4db2-b855-9d14e9fe5175@b6g2000yqi.googlegroups.com> <RqqdnZCJWKV0EknWnZ2dnUVZ8vOdnZ2d@pipex.net> <20abbfd0-d891-4844-9c2c-2837c56e40fc@y17g2000yqd.googlegroups.com>
Subject: Re: Variac Transformer to HV transformer
Date: Thu, 29 Apr 2010 10:15:18 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-Antivirus: avast! (VPS 100429-0, 04/29/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <b54d0$4bd9a286$18d6e5f0$29828@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 77
X-Trace: b54d04bd9a286bd73405529828
Xref: g2news2.google.com rec.radio.amateur.homebrew:3683

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
news:20abbfd0-d891-4844-9c2c-2837c56e40fc@y17g2000yqd.googlegroups.com...
On Apr 25, 2:54 pm, highlandham <highlandham.nos...@rfburns.eu> wrote:
> On 25/04/10 18:35, JIMMIE wrote:> I have a couple of Variac cores less the
> mechanical wipers. I was
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> > coating, maybe Krylon HV coating . Secondary would either be wound for
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> > transformer feeding a voltage doubler. Any ideas and suggestions would

> > be greatly appreciated.
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> Yes that could be made into an effective 'toroid' transformer.

> Good insulation between current 115/230 winding and secondary winding is
> crucial. Don't know what Krylon is ,but a sheet type insulation seems
> very necessary
> Suggest you first try with a low secondary voltage
> Also check max power of original variac at 115V input and compare with
> the HV power required.
> Example : If variac was meant for max. 4 Amperes at 115 V ,ie 460VA the
> secondary pick-off should not exceed that value.
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>Frank, I am trying to decide on a wire to wind the secondary with. I
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>rated for 1.5 amps per the information I have seen on the internet.
>Cat5 is rated at a little over .5 amp. I think current draw will be
>around 300 mil at the most.

>Jimmie

I would figure out how much wire I need and run to a local motor rewind
shop and purchase wire from them. It has been my experience that most
shops are now using a higher temp. insulation than they were 10 or 15 years
ago.
I think VFD motor systems pushed them to do this.
I would ask about some of the (paper) type material to put over the exposed
windings where the wiper slides, then wrap the primary with Kapton tape.
 http://www.can-dotape.com/kapton-tape.htm
 I have even purchased a quart of the varnish they use and used it to help
protect
the wire from vibrating. I baked it in the wifes oven (when she wasn't
home!)
 I think you will need a lot of turns, for a 540V secondary I figure 4.7
times
the number of turns on your primary. Count the number of turns on the
primary
and multiply by 4.7. I do like the test of putting on a good number of
turns to check
volts per turn, to get a ballpark number. The heavier your wire the better
regulation you will be. You can calculate the voltage drop of the wire in
your secondary with
the heap of a wire table. http://www.powerstream.com/Wire_Size.htm
 Let's say you used 22gauge wire with 16 ohms per 1000 feet. and let also
say you
need 500 ft to wrap your secondary. So your secondary has 8 ohms of
resistance, you said you would draw about 300ma. So E=IxR or

```
.3A x 8 ohms = 2.4 Volts. Not much drop. Let's try a 30 gauge with 103 ohms
per 1000 feet.   .3A x 51.5 ohms = 15.45 Volts. Higher but still only about
3% of
 540 volts. This is calculated at 540 volts at 300 ma, I'm not clear if the
300ma
is at 540V or 1080V so you may need to double the voltage drop of your
secondary. Remember this is only your secondary wire loss, not the primary
or core losses.
                   Hope that helps, Mike






From 7981667754979000347
X-Google-Thread: 241b302a50,dab984f213ddd7b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!r34g2000yqj.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Variac Transformer to HV transformer
Date: Thu, 29 Apr 2010 13:21:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 90
Message-ID: <292edbb1-0d1b-448b-92a5-67886ad41f86@r34g2000yqj.googlegroups.com>
References: <76d2b6da-29a7-4db2-b855-9d14e9fe5175@b6g2000yqi.googlegroups.com>
     <RqqdnZCJWKV0EknWnZ2dnUVZ8vOdnZ2d@pipex.net> <20abbfd0-
d891-4844-9c2c-2837c56e40fc@y17g2000yqd.googlegroups.com>
     <b54d0$4bd9a286$18d6e5f0$29828@KNOLOGY.NET>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1272572488 11575 127.0.0.1 (29 Apr 2010 20:21:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 29 Apr 2010 20:21:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r34g2000yqj.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3684

On Apr 29, 11:15=A0am, "amdx" <a...@knology.net> wrote:
> "JIMMIE" <JIMMIEDEE...@YAHOO.COM> wrote in message
>
> news:20abbfd0-d891-4844-9c2c-2837c56e40fc@y17g2000yqd.googlegroups.com...
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>
```

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>
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> secondary. Remember this is only your secondary wire loss, not the primar=
y
> or core losses.
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0Hope that helps, Mike

Thanks for the info Mike. I was able to compare the size of my core
with one of a known rating(1KVA). The core I am going to be using is a
little larger than that one.



From 1027215247798605316
X-Google-Thread: 241b302a50,1b8d7a31524c81d1,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed2.dallas1.level3.net!
newsfeed3.dallas1.level3.net!news.level3.com!newsfeeds.sol.net!feeder.news-
service.com!news.glorb.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 29 Apr 2010 17:11:44 -0500
From: Jmorgan12003 <Jmorgan12003.61fb982@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Why was my post removed?
Date: Thu, 29 Apr 2010 20:55:30 +0100
Message-ID: <Jmorgan12003.61fb982@radiobanter.com>
Organization: RadioBanter.com
Lines: 8
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
```

```
MsZomqvih7GMtRQe0YDHqwAu3SKkdc8UPCyu8m6G5rdsWFzi9IhxavwAIuvWuAs06JKcsrx3KoWSlcP!
oJWgD/IH06bAsouU9XVDjb3aJrs9CkPOqqFoVJX+rYvaO8gB1IvjNkpfJVhyvakMtGRdmm5G+F87!
+Hg2ScRFedk=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 1
X-Original-Bytes: 1114
Xref: g2news2.google.com rec.radio.amateur.homebrew:3685
```

I posted a simple enough question about converting a cb into a telephone and it's been removed. Anyone know why?

--
Jmorgan12003

```
From 2702075866199897505
X-Google-Thread: 241b302a50,1b8d7a31524c81d1
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news2
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Why was my post removed?
Date: Thu, 29 Apr 2010 18:38:15 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 11
Message-ID: <hrd1on01por@news2.newsguy.com>
References: <Jmorgan12003.61fb982@radiobanter.com>
NNTP-Posting-Host: p96c5ab83473a37add6d664abd8588f3fb2386996daa5357d.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
In-Reply-To: <Jmorgan12003.61fb982@radiobanter.com>
X-Antivirus: avast! (VPS 100429-1, 04/29/2010), Outbound message
X-Antivirus-Status: Clean
Xref: g2news2.google.com rec.radio.amateur.homebrew:3686
```

Jmorgan12003 wrote:

> I posted a simple enough question about converting a cb into a telephone
> and it's been removed. Anyone know why?

Its still here on my news service. I don't think anyone *removes* posts
on Usenet.

You are posting to Usenet via RadioBanter. Maybe they have something to
do with it.

-Bill

From 692064228702629597
X-Google-Thread: 241b302a50,1b8d7a31524c81d1
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
newshosting.com!post01.iad!not-for-mail
From: Kickin' Ass and Takin' Names <PopUlist349@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Why was my post removed?
Date: Thu, 29 Apr 2010 21:18:37 -0400
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse(at)newshosting.com
Message-ID: <hubkt5ltc7ihgmfkl3qemqjotg14fh1psd@4ax.com>
References: <Jmorgan12003.61fb982@radiobanter.com>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 10
Xref: g2news2.google.com rec.radio.amateur.homebrew:3687

On Thu, 29 Apr 2010 20:55:30 +0100, Jmorgan12003
<Jmorgan12003.61fb982@radiobanter.com> wrote:

>
>I posted a simple enough question about converting a cb into a telephone
>and it's been removed. Anyone know why?

Your post was not removed. I just read it.

From 2936610435692402385
X-Google-Thread: 241b302a50,1b8d7a31524c81d1
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!STARBAND.NET-a2kHrUvQQWlmc!not-for-mail

```
From: You <you@shadow.orgs>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Why was my post removed?
Organization: Shadow.orgs
References: <Jmorgan12003.61fb982@radiobanter.com>
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
Date: Thu, 29 Apr 2010 18:27:30 -0800
Message-ID: <you-8E5DB0.18271929042010@news.starband.net>
X-Complaints-To: abuse@usenetserver.com
Lines: 9
X-Trace: abae84bda401331e5915331686
Xref: g2news2.google.com rec.radio.amateur.homebrew:3688

In article <Jmorgan12003.61fb982@radiobanter.com>,
 Jmorgan12003 <Jmorgan12003.61fb982@radiobanter.com> wrote:

> I posted a simple enough question about converting a cb into a telephone
> and it's been removed.  Anyone know why?

Simple, Because your an Idiot, and seem to want others to do your
thinking for you, but do not have enough money to pay those others to do
it....  Does the term Morooon come to mind.... (Bugs Bunny Definition)


From -4174574510348363490
X-Google-Thread: 241b302a50,1b8d7a31524c81d1
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Why was my post removed?
Date: 30 Apr 2010 15:29:24 GMT
Lines: 16
Message-ID: <slrnhtltu5.2arp.bit-bucket@shell.config.com>
References: <Jmorgan12003.61fb982@radiobanter.com>
 <hubkt5ltc7ihgmfkl3qemqjotg14fh1psd@4ax.com>
Reply-To: If you must, <Reply_to@my.sig.adr>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: individual.net AjR6zrVxArRjxA4CA2lcFwHccKyx1slhmU1UdW/8xwh4alwuvp
Cancel-Lock: sha1:zhsYpUz2rbsqolZpQYdYrAxPwVg=
User-Agent: slrn/0.9.9p1 (FreeBSD)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3689

On Thu, 29 Apr 2010 21:18:37 -0400, Kickin' Ass and Takin' Names wrote:
> On Thu, 29 Apr 2010 20:55:30 +0100, Jmorgan12003
><Jmorgan12003.61fb982@radiobanter.com> wrote:
>
>>
```

```
>>I posted a simple enough question about converting a cb into a telephone
>>and it's been removed.  Anyone know why?
>
>
> Your post was not removed.  I just read it.
>

--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    * Killfiling google & XXXXbanter.com: jonz.net/ng.htm


From 7485419302532773760
X-Google-Thread: 241b302a50,1b8d7a31524c81d1
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Jmorgan12003.61fb982@radiobanter.com>
<you-8E5DB0.18271929042010@news.starband.net>
Subject: Re: Why was my post removed?
Date: Fri, 30 Apr 2010 12:36:46 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 100430-0, 04/30/2010), Outbound message
X-Antivirus-Status: Clean
Message-ID: <bbb41$4bdb1532$18d66003$30823@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 18
X-Trace: bbb414bdb1532bd73c5a630823
Xref: g2news2.google.com rec.radio.amateur.homebrew:3690


"You" <you@shadow.orgs> wrote in message
news:you-8E5DB0.18271929042010@news.starband.net...
> In article <Jmorgan12003.61fb982@radiobanter.com>,
> Jmorgan12003 <Jmorgan12003.61fb982@radiobanter.com> wrote:
>
>> I posted a simple enough question about converting a cb into a telephone
>> and it's been removed.  Anyone know why?
>
> Simple, Because your an Idiot, and seem to want others to do your
> thinking for you, but do not have enough money to pay those others to do
> it....  Does the term Morooon come to mind.... (Bugs Bunny Definition)
```

  If you knew the answer you would have posted it. So apperantly your
name fits you.
                            Mike

From 1064833332124414124
X-Google-Thread: 241b302a50,1b8d7a31524c81d1
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx01.iad01.newshosting.com!
newshosting.com!novia!newsfeed.yul.equant.net!nntp1.roc.gblx.net!nntp.gblx.net!
nntp.gblx.net!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Why was my post removed?
Date: Fri, 30 Apr 2010 18:47:28 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 27
Sender: et472@206-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.1004301845570.4745@darkstar.example.net>
References: <Jmorgan12003.61fb982@radiobanter.com>
<you-8E5DB0.18271929042010@news.starband.net>
 <bbb41$4bdb1532$18d66003$30823@KNOLOGY.NET>
NNTP-Posting-Host: 206-215-235-64-ppp.3menatwork.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1272667703 22740 64.235.215.206 (30 Apr 2010 22:48:23 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 30 Apr 2010 22:48:23 GMT
In-Reply-To: <bbb41$4bdb1532$18d66003$30823@KNOLOGY.NET>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3691

On Fri, 30 Apr 2010, amdx wrote:

> "You" <you@shadow.orgs> wrote in message
> news:you-8E5DB0.18271929042010@news.starband.net...
>> In article <Jmorgan12003.61fb982@radiobanter.com>,
>> Jmorgan12003 <Jmorgan12003.61fb982@radiobanter.com> wrote:
>>
>>> I posted a simple enough question about converting a cb into a telephone
>>> and it's been removed. Anyone know why?
>>
>> Simple, Because your an Idiot, and seem to want others to do your
>> thinking for you, but do not have enough money to pay those others to do
>> it.... Does the term Moroooon come to mind.... (Bugs Bunny Definition)
>
> If you knew the answer you would have posted it. So apperantly your
> name fits you.

>

First, the question didn't belong here, it's not even radio related.
Far better in sci.electronics.basics, but even then I have doubts, since
it's not an electronic question.

Second, there really isn't an answer. Rip out the existing electronics,
then take a cheap phone from the drugstore and take the circuit board out
and mount it in the CB set. It's purely a cosmetic issue.

Michael VE2BVW

```
From 989150154856260442
X-Google-Thread: 241b302a50,dab984f213ddd7b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r34g2000yqj.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Variac Transformer to HV transformer
Date: Fri, 30 Apr 2010 18:02:03 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <c706282a-0a51-42b1-85db-6b863583a196@r34g2000yqj.googlegroups.com>
References: <76d2b6da-29a7-4db2-b855-9d14e9fe5175@b6g2000yqi.googlegroups.com>
     <RqqdnZCJWKV0EknWnZ2dnUVZ8vOdnZ2d@pipex.net> <20abbfd0-
d891-4844-9c2c-2837c56e40fc@y17g2000yqd.googlegroups.com>
     <b54d0$4bd9a286$18d6e5f0$29828@KNOLOGY.NET>
NNTP-Posting-Host: 99.92.119.140
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1272675723 10832 127.0.0.1 (1 May 2010 01:02:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 1 May 2010 01:02:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r34g2000yqj.googlegroups.com; posting-host=99.92.119.140;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
     rv:1.8.1.24pre) Gecko/20100228 K-Meleon/1.5.4,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3692
```

You can calculate the voltage drop of the wire in
> your secondary with
> the heap of a wire table.http://www.powerstream.com/Wire_Size.htm

Hey OM:

That link to that table is ok. I learned building my own transformers.
Heat is the killer of any design.

What those tables don't tell you is the resistance increase caused by heat which turns out to be run away in cases. It's like the resistance goes up because of heat and this creates more heat increasing the resistance further.

Leave a fudge factor in there, use the largest size wire possible

73 OM
de n8zu.

From 7184782619396014106
X-Google-Thread: a4a23d5f63,8aa0b118132b73ad,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed2.dallas1.level3.net!news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1270101601@panix.com>
Followup-To: poster
Date: 1 May 2010 02:00:02 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Jun 2010 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1272693601@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com (rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1272693603 15285 166.84.1.2 (1 May 2010 06:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 1 May 2010 06:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
Xref: g2news2.google.com rec.radio.amateur.antenna:17461 rec.radio.amateur.dx:653 rec.radio.amateur.equipment:2155 rec.radio.amateur.homebrew:3693 rec.radio.amateur.misc:5106 rec.radio.amateur.policy:29027 rec.radio.amateur.space:360 rec.radio.info:1488

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

From 9005983275713212232
X-Google-Thread: 241b302a50,1b8d7a31524c81d1
X-Google-Attributes: gid241b302a50,public,usenet

```
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!STARBAND.NET-a2kHrUvQQWlmc!not-for-mail
From: You <you@shadow.orgs>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Why was my post removed?
Organization: Shadow.orgs
References: <Jmorgan12003.61fb982@radiobanter.com>
<you-8E5DB0.18271929042010@news.starband.net>
<bbb41$4bdb1532$18d66003$30823@KNOLOGY.NET>
User-Agent: MT-NewsWatcher/3.5.3b3 (PPC Mac OS X)
Date: Sat, 01 May 2010 10:57:01 -0800
Message-ID: <you-2CF39C.10570101052010@unknown.hwng.net>
X-Complaints-To: abuse@usenetserver.com
Lines: 25
X-Trace: 2e8c34bdc798a31e5901f02541
Xref: g2news2.google.com rec.radio.amateur.homebrew:3694

In article <bbb41$4bdb1532$18d66003$30823@KNOLOGY.NET>,
 "amdx" <amdx@knology.net> wrote:

> "You" <you@shadow.orgs> wrote in message
> news:you-8E5DB0.18271929042010@news.starband.net...
> > In article <Jmorgan12003.61fb982@radiobanter.com>,
> > Jmorgan12003 <Jmorgan12003.61fb982@radiobanter.com> wrote:
> >
> >> I posted a simple enough question about converting a cb into a telephone
> >> and it's been removed.  Anyone know why?
> >
> > Simple, Because your an Idiot, and seem to want others to do your
> > thinking for you, but do not have enough money to pay those others to do
> > it....  Does the term Morooon come to mind.... (Bugs Bunny Definition)
>
>   If you knew the answer you would have posted it. So apperantly your
> name fits you.
>                              Mike

Actually, I DO know the answer, and it is NOT in compliance with
Title 47, Part 95, SubPart D, 95.420, UNLESS, Station Owner complies
with the complete Rule, as Amended... which sets very strict provisions
for such an interconnection.

sorry Mike, Would you like to try again, for what's behind Door #2.....


From 1810396889240371001
X-Google-Thread: 241b302a50,837529dfd5a58da9
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder2.cambriumusenet.nl!
```

```
feed.tweaknews.nl!138.195.8.3.MISMATCH!news.ecp.fr!aioe.org!not-for-mail
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP 5245L Counter Oscillator adjust?
Date: Sat, 01 May 2010 16:07:43 -0400
Organization: Aioe.org NNTP Server
Lines: 38
Message-ID: <fmmck-9B9D2F.16074301052010@5ad64b5e.bb.sky.com>
References: <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net>
NNTP-Posting-Host: y4TreYkijvG8TXPp8smMIQ.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3695
```

In article <VJWdnRPGfdk_T0nWnZ2dnUVZ_rOdnZ2d@bright.net>,
 Scott <acepilotREMOVE@bloomer.net> wrote:

> I measure the signal coming out the back of the counter
> (with another counter) at 10.000066 MHz. I adjusted the "coarse tune"
> adjustment on the back of the unit and this is as close as it gets to
> 10.000000 MHz, so I assume there must be some other adjustment
> somewhere.

Scott-

I have a different HP counter that had a similar problem when I got it. There was a capacitor adjustment in the crystal oven, but it did not have enough range to bring the oscillator to 10.0 MHz.

It turned out that there was an open thermal fuse in the supply line inside the crystal oven. It was a plug-in device about the size of a half watt resistor, maybe smaller. There were two wire-sockets that its leads plugged into.

I managed to buy the last thermal fuse HP had in stock at the time. Before it arrived, I had fabricated replacements using a thermal fuse from Radio Shack, wired in parallel with a high value resistor which had the correct lead diameter to plug into the wire sockets.

Using a rubidium oscillator purchased on E-Bay, I aligned the repaired oscillator fairly accurately using an oscilloscope. After several years, it seems to still be within a fraction of one Hz!

It turns out that this is a common problem. I wrote it up and sent it to QST for their Hints & Kinks several years back. Since then, one of the HP designers of the oscillator posted a comment that the thermal fuse wasn't really needed, since the heating element shouldn't cause any damage if left on continuously. Even so, I feel better with the thermal fuse installed!

```
Fred
K4DII


From -829890289254934119
X-Google-Thread: 241b302a50,dab984f213ddd7b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!37g2000yqm.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Variac Transformer to HV transformer
Date: Sat, 1 May 2010 14:56:00 -0700 (PDT)
Organization: http://groups.google.com
Lines: 27
Message-ID: <a8713dc5-fd57-43cc-b791-09dc276094b7@37g2000yqm.googlegroups.com>
References: <76d2b6da-29a7-4db2-b855-9d14e9fe5175@b6g2000yqi.googlegroups.com>
     <RqqdnZCJWKV0EknWnZ2dnUVZ8vOdnZ2d@pipex.net> <20abbfd0-
d891-4844-9c2c-2837c56e40fc@y17g2000yqd.googlegroups.com>
     <b54d0$4bd9a286$18d6e5f0$29828@KNOLOGY.NET>
<c706282a-0a51-42b1-85db-6b863583a196@r34g2000yqj.googlegroups.com>
NNTP-Posting-Host: 155.178.4.19
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1272750960 28034 127.0.0.1 (1 May 2010 21:56:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 1 May 2010 21:56:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 37g2000yqm.googlegroups.com; posting-host=155.178.4.19;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3696

On Apr 30, 9:02=A0pm, raypsi <rborow...@gmail.com> wrote:
> =A0You can calculate the voltage drop of the wire in
>
> > your secondary with
> > the heap of a wire table.http://www.powerstream.com/Wire_Size.htm
>
> Hey OM:
>
> That link to that table is ok. I learned building my own transformers.
> Heat is the killer of any design.
>
> What those tables don't tell you is the resistance increase caused by
> heat which turns out to be run away in cases. It's like the resistance
> goes up because of heat and this creates more heat increasing the
```

> resistance further.
>
> Leave a fudge factor in there, use the largest size wire possible
>
> 73 OM
> de n8zu.

Im thinking 20 gauge enameled wire mostly because I think I have a
1000 ft roll in the attic. Not at all sure how well that is going to
fit on the core. I really want to get away from the voltage doubler in
favor of a bridge rectifier so I want to wind it for 1100 volts.

Jimmie

From 6695276486774838946
X-Google-Thread: 241b302a50,dab984f213ddd7b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 01 May 2010 17:38:41 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <76d2b6da-29a7-4db2-b855-9d14e9fe5175@b6g2000yqi.googlegroups.com>
<RqqdnZCJWKV0EknWnZ2dnUVZ8vOdnZ2d@pipex.net> <20abbfd0-
d891-4844-9c2c-2837c56e40fc@y17g2000yqd.googlegroups.com>
<b54d0$4bd9a286$18d6e5f0$29828@KNOLOGY.NET>
<c706282a-0a51-42b1-85db-6b863583a196@r34g2000yqj.googlegroups.com> <a8713dc5-
fd57-43cc-b791-09dc276094b7@37g2000yqm.googlegroups.com>
Subject: Re: Variac Transformer to HV transformer
Date: Sat, 1 May 2010 17:38:40 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <AOOdnQDOt7nsMEHWnZ2dnUVZ_gednZ2d@giganews.com>
Lines: 46
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-8U8FlxBjV2to785Myrb4lcIB/
MJHy73t3T0+FvWREK7J9RhL5S1sGkwfEb+UIpmLAf9iCtsRxaVRUHf!
tdeQIYvCTrD6ps+5U4a4xQC9BKWa+/2nF1rVrk2kehnnFFUqeP4JNnqZ+gbgUsST5uDTAPMSdig0
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3697

JIMMIE wrote:
> On Apr 30, 9:02 pm, raypsi <rborow...@gmail.com> wrote:
>> You can calculate the voltage drop of the wire in
>>
>>> your secondary with
>>> the heap of a wire table.http://www.powerstream.com/Wire_Size.htm
>>
>> Hey OM:
>>
>> That link to that table is ok. I learned building my own
>> transformers. Heat is the killer of any design.
>>
>> What those tables don't tell you is the resistance increase caused by
>> heat which turns out to be run away in cases. It's like the
>> resistance goes up because of heat and this creates more heat
>> increasing the resistance further.
>>
>> Leave a fudge factor in there, use the largest size wire possible
>>
>> 73 OM
>> de n8zu.
>
> Im thinking 20 gauge enameled wire mostly because I think I have a
> 1000 ft roll in the attic. Not at all sure how well that is going to
> fit on the core. I really want to get away from the voltage doubler in
> favor of a bridge rectifier so I want to wind it for 1100 volts.
>
> Jimmie

You really need to do some math before you start winding wire onto your
variac core. Read the theory and do some practice exercises from the info
on these web pages:
http://how-to.wikia.com/wiki/How_to_build_a_transformer_or_inductor and
http://www.howyoubuildit.com/transformer/

You have a finite winding area in the center of your toroid. Wire size will
define how many turns you can get into that winding area. You might find
that AWG 20 is way too big for the secondary voltage you want.

Cheers,
--
David
dgminala at mediacombb dot net

From 7421996944631348207
X-Google-Thread: 241b302a50,7785665ac91e11f9
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII

Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!news.mixmin.net!feeder.eternal-september.org!eternal-september.org!.POSTED!not-for-mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
Date: Fri, 19 Mar 2010 22:39:20 +0000
Organization: A noiseless patient Spider
Lines: 40
Message-ID: <SHWBamNY0$oLFwkK@g3ohx.demon.co.uk>
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
 <4f9a6362-a6bf-4b47-b8ed-a15b1a1039b6@g4g2000yqa.googlegroups.com>
 <aXfDOkJ98+oLFw0L@g3ohx.demon.co.uk>
 <42347d49-f71a-486a-afba-381bdc4fc785@f8g2000yqn.googlegroups.com>
 <7a53f396-8651-47da-9183-c3830aa38da3@y17g2000yqd.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain;charset=iso-8859-1;format=flowed
Content-Transfer-Encoding: 8bit
Injection-Date: Fri, 19 Mar 2010 22:39:29 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-host="1Z/M1oM6JVqBnMi2uYI0kA";
 logging-data="21067"; mail-complaints-to="abuse@eternal-september.org";
 posting-account="U2FsdGVkX1+2CdY0MyFSd1XtWpGIOpa6GQRdFAOHmnc="
User-Agent: Turnpike/6.06-S (<ZSRqWGqVKPDqUMCjHfDoe4Z1an>)
Cancel-Lock: sha1:IwFbLxIaxBCDlGU1v3lcyrEsFk8=
Xref: g2news2.google.com rec.radio.amateur.homebrew:3495

In message
<7a53f396-8651-47da-9183-c3830aa38da3@y17g2000yqd.googlegroups.com>,
JIMMIE <JIMMIEDEE123@YAHOO.COM> writes
>On Mar 19, 6:32�pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>> On Mar 19, 5:40�pm, Ian Jackson
>>
>>
>>
>> <ianREMOVETHISjack...@g3ohx.demon.co.uk> wrote:
>> > In message
>> > <4f9a6362-a6bf-4b47-b8ed-a15b1a103...@g4g2000yqa.googlegroups.com>,
>> > JIMMIE <JIMMIEDEE...@YAHOO.COM> writes
>>
>> > >On Mar 19, 2:16�pm, jane <ujitas...@yahoo.com> wrote:
>> > >> Suppose I have a DC power supply of 12V, what kind of circuit I can
>> > >> construct so I can get +5V and -5V output simultaneously, with a +5V
>> > >> and a -5V regulator? Hopefully no transformer is involved.
>>
>> > >> I couldn't find any topics thru google search.
>>
>> > >Charge pump using an NE555 osc.
>>
>> > Indeed. But it depends on how much current you need from the -5V supply.
>> > For low currents, try some sort of multivibrator /squarewave generator
>> > (NE555 - even a couple of transistors!) to produce an alternating
>> > signal, AC couple and rectify.

```
>> > --
>> > Ian
>>
>> Ian, its been a while since I built a charge pump but I think my
>> experiments showed it would do about 25ma as a voltage doubler. I was
>> using +5 to get -8
>>
>> Jimmie
>
>That was using an NE555.
>
Personally, I don't trust such new-fangled devices! ;o))
--
Ian



From -5085811668863000896
X-Google-Thread: fc2a5,7785665ac91e11f9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.brightview.co.uk!news.brightview.co.uk.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 19 Mar 2010 19:15:47 -0500
From: "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
Date: Sat, 20 Mar 2010 00:15:51 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <FrqdnZKknP4ujjnWnZ2dnUVZ7oCdnZ2d@brightview.co.uk>
Lines: 18
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
YWykNhCSqLLh6zyqMOKMPgORK1hSwiKZq3J7afPzW1VF1jXMAOKQfHJ9E0tou9XkVsCyElAhbt4aFWj!
9GrXMIn1A6oselDM1apOxuPp6Q8bv5xKkrQLr6+p6w75pal32+V3KqpikEZ0uy8y4OHd9YT8L2is!
Q20C6BPheMFtZTegysV5pVTX3Q==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3199

Hi,

You could use an LTC3704 for example
(http://www.linear.com/pc/productDetail.jsp?navId=H0,C1,C1003,C1042,C1033,P1728)
to generate -5V and use a similar LT device to give you +5V.  Linear
```

Technology produce quite a wide range of these interesting regulators.

JOHN

--
----

broadband for as little as �5.99/month
see www.wells10000.plus.com for info
Hurry! Only �5.99 until 11th April 2010

```
From 6024128876598922693
X-Google-Thread: fc2a5,7785665ac91e11f9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!b7g2000yqd.googlegroups.com!not-for-mail
From: jane <ujitasoso@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
Date: Fri, 19 Mar 2010 17:20:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 10
Message-ID: <01d6100c-f020-4863-a93d-39c0eec92256@b7g2000yqd.googlegroups.com>
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
NNTP-Posting-Host: 69.14.49.121
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1269044416 20438 127.0.0.1 (20 Mar 2010 00:20:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 20 Mar 2010 00:20:16 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b7g2000yqd.googlegroups.com; posting-host=69.14.49.121;
     posting-account=OruUZAoAAADbQXS1s6F99yshThtmfz3i
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.3)
     Gecko/20090824 Firefox/3.5.3,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3200
```

Thank everyone for replying. But my question seems not been understood correctly.

I want +5V and -5V output simultaneously with common ground in one circuit. Not individual +5V or -5V output, one at the time.

That is, if I use +5V terminal and -5V terminal, the voltage difference should be +10V.

Thanks.

From -6797367158699546653
X-Google-Thread: fc2a5,7785665ac91e11f9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!g19g2000yqe.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
Date: Fri, 19 Mar 2010 18:17:43 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <eac16e61-5442-4a08-9af4-40216211ade2@g19g2000yqe.googlegroups.com>
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
     <01d6100c-f020-4863-a93d-39c0eec92256@b7g2000yqd.googlegroups.com>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269047865 3006 127.0.0.1 (20 Mar 2010 01:17:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 20 Mar 2010 01:17:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g19g2000yqe.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2)
     Gecko/20100115 Firefox/3.6 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3201

On Mar 19, 8:20=A0pm, jane <ujitas...@yahoo.com> wrote:
> Thank everyone for replying. But my question seems not been understood
> correctly.
>
> I want +5V and -5V output simultaneously with common ground in one
> circuit. Not individual +5V or -5V output, one at the time.
>
> That is, if I use +5V terminal and -5V terminal, the voltage
> difference should be +10V.
>
> Thanks.

The NE 555 circuit will do that given about about a 25ma current limit
otherwise there are a number of DC to DC converters commercially made
power blocks that will do it. Packaged Power makes some nice little
units. I have a Bipolar unit on my desk 12in +/- 12 out

From 1850050196391078551

```
X-Google-Thread: 241b302a50,7785665ac91e11f9
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!q21g2000yqm.googlegroups.com!not-for-
mail
From: joeturn <joeturn2000@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
Date: Fri, 19 Mar 2010 18:23:48 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <eb452439-1229-456d-a9c6-6f63aa215979@q21g2000yqm.googlegroups.com>
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
     <01d6100c-f020-4863-a93d-39c0eec92256@b7g2000yqd.googlegroups.com>
NNTP-Posting-Host: 24.95.252.127
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269048228 28268 127.0.0.1 (20 Mar 2010 01:23:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 20 Mar 2010 01:23:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q21g2000yqm.googlegroups.com; posting-host=24.95.252.127;
     posting-account=TOBUfggAAAC5Ow7sgid-1fbF1N9O6T1h
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1) ; .NET
     CLR 1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0; .NET CLR 2.0.50727;
     .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729; OfficeLiveConnector.1.4;
     OfficeLivePatch.1.3; yie8),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3202

On Mar 19, 8:20=A0pm, jane <ujitas...@yahoo.com> wrote:
> Thank everyone for replying. But my question seems not been understood
> correctly.
>
> I want +5V and -5V output simultaneously with common ground in one
> circuit. Not individual +5V or -5V output, one at the time.
>
> That is, if I use +5V terminal and -5V terminal, the voltage
> difference should be +10V.
>
> Thanks.

Hope this helps

http://en.allexperts.com/q/Electrical-Engineering-1356/Adapter-voltage-ques=
tion-3.htm


From -4157321039266682438
X-Google-Thread: fc2a5,7785665ac91e11f9
```

```
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe20.iad.POSTED!7564ea0f!not-for-mail
From: gwatts <gwatts@frontiernet.net>
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
<01d6100c-f020-4863-a93d-39c0eec92256@b7g2000yqd.googlegroups.com>
In-Reply-To: <01d6100c-f020-4863-a93d-39c0eec92256@b7g2000yqd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 16
Message-ID: <2IVon.18275$yk1.11085@newsfe20.iad>
X-Complaints-To: abuse-news@frontiernet.net
NNTP-Posting-Date: Sat, 20 Mar 2010 01:40:14 UTC
Organization: Frontier
Date: Fri, 19 Mar 2010 21:40:14 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:3500

jane wrote:
> Thank everyone for replying. But my question seems not been understood
> correctly.
>
> I want +5V and -5V output simultaneously with common ground in one
> circuit. Not individual +5V or -5V output, one at the time.
>
> That is, if I use +5V terminal and -5V terminal, the voltage
> difference should be +10V.
>
> Thanks.

Two of these,
<http://www.jameco.com/webapp/wcs/stores/servlet/ProductDisplay?
langId=-1&storeId=10001&catalogId=10001&productId=2106790>

connect + of one to - of the other.


From -8967528468490143367
X-Google-Thread: fc2a5,7785665ac91e11f9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!newsfeed.xs4all.nl!newsfeed6.news.xs4all.nl!xs4all!
newsgate.cistron.nl!newsgate.news.xs4all.nl!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
```

```
From: Rob <nomail@example.com>
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
 <01d6100c-f020-4863-a93d-39c0eec92256@b7g2000yqd.googlegroups.com>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrnhq96l3.j7v.nomail@xs8.xs4all.nl>
Date: 20 Mar 2010 09:51:31 GMT
Lines: 17
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1269078691 news.xs4all.nl 22945 [::ffff:194.109.21.8]:48068
X-Complaints-To: abuse@xs4all.nl
Xref: g2news2.google.com rec.radio.amateur.homebrew:3501

jane <ujitasoso@yahoo.com> wrote:
> Thank everyone for replying. But my question seems not been understood
> correctly.
>
> I want +5V and -5V output simultaneously with common ground in one
> circuit. Not individual +5V or -5V output, one at the time.
>
> That is, if I use +5V terminal and -5V terminal, the voltage
> difference should be +10V.
>
> Thanks.

Your question misses one essential information: how much current
do you need from those outputs?

There is a big difference between a solution for a couple of mA
and one for several A.


From -9060816239964396846
X-Google-Thread: fc2a5,7785665ac91e11f9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Adam Sampson <ats@offog.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
Date: Sat, 20 Mar 2010 16:56:41 +0000
Organization: I'll send this message down the wire and hope that someone wise is
listening
Lines: 26
Message-ID: <y2avdcrhqye.fsf@cartman.at.offog.org>
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
```

X-Trace: individual.net g6mAa41ALabQl8jnnTanoQsGvwZvPDNCI/aw3z7rnZEUtREh0T
X-Orig-Path: cartman.offog.org!not-for-mail
Cancel-Lock: sha1:AHN2BVvs9OcO+DZjI5HTD6NZGZ4= sha1:TgC8jZiAaJEHSC+OZCrEsFxS+OM=
User-Agent: Gnus/5.13 (Gnus v5.13) Emacs/23.1 (gnu/linux)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3205

jane <ujitasoso@yahoo.com> writes:

> Suppose I have a DC power supply of 12V, what kind of circuit I can
> construct so I can get +5V and -5V output simultaneously, with a +5V
> and a -5V regulator? Hopefully no transformer is involved.

This is a hard question to answer without knowing more about your application -- can you describe the circuit you're providing a power supply for? How much current does it need to draw? How sensitive to noise is it?

Do you care about the output ground being the same as the input ground? If not, you can use a rail splitter (e.g. a TLE2426, or a pair of resistors and a buffer) to give you an output ground rail midway between your inputs, which'll give you a +/-6V supply from 12V input. If that's not close enough for your application, you can then regulate down to +/-5V using low-dropout linear regulators. This is almost certainly the way to go if you just need a split-rail supply to drive some op-amps.

If your input ground must be the same as your output ground, then there are a variety of cheap, efficient buck-boost regulators you can use to get the two rails you're after, but you'll need some external inductors, and you'll have to worry more about noise...

--
Adam Sampson <ats@offog.org>   <http://offog.org/>

From 7930884967084525247
X-Google-Thread: fc2a5,7785665ac91e11f9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 20 Mar 2010 15:43:26 -0500
Date: Sat, 20 Mar 2010 15:40:40 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
In-Reply-To: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed

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Message-ID: <n--dndHVnMXsrjjWnZ2dnUVZ_qOdnZ2d@giganews.com>
Lines: 31
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X-Trace:
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X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3206

jane wrote:
> Suppose I have a DC power supply of 12V, what kind of circuit I can
> construct so I can get +5V and -5V output simultaneously, with a +5V
> and a -5V regulator? Hopefully no transformer is involved.
>
> I couldn't find any topics thru google search.

you could certainly layout a multivibrator working at say 1 kHz.

And you could make its output drive four steering switches - MOSFETS or power transistors, to switch on the top and bottom of a flying capacitor which charges to 11.4 volts on one half cycle, and disconnects the source on the other half cycle, but instead connects the the top of the flying capacitor to a zener rated 6.5 volts connected thru a resistor to ground. This puts the top of the flying cap at about 5.5 volts, and the base of the flying capacitor at -5.5 volts.

The multivib also connects the top of the flying cap to a smoothing cap via another switch, which provides a little over plus five volts. Meanwhile, the foot of the charging cap drops to -5.5 volts, which connects via a power diode to a smoothing cap for minus 5 volts.

This takes four power steering switches, a zener and a power diode, along with three caps. Not to mention the multivibrator and its coupling caps.

This is more complication than is really needed, but you would probably enjoy the fairly straight-forward design challenge. Or would you?
:-)

Brian W

From 6356128031191932121
X-Google-Thread: 241b302a50,7785665ac91e11f9
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Joerg <invalid@invalid.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
Date: Sat, 20 Mar 2010 13:43:27 -0700
Organization: Consultant
Lines: 87
Message-ID: <80kqbrFrpsU1@mid.individual.net>
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
<4BA3D371.7090202@invalid.invalid> <4e691ea6-
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Reply-To: news@analogconsultants.com
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Content-Transfer-Encoding: 7bit
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Cancel-Lock: sha1:TtceuvovCj+R8nIucwazBPn6TXk=
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
In-Reply-To: <4e691ea6-e4e2-4860-9659-1c3fe4f95c20@l24g2000prh.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3504

K7ITM wrote:
> On Mar 19, 12:41 pm, Joerg <inva...@invalid.invalid> wrote:
>> jane wrote:
>>> Suppose I have a DC power supply of 12V, what kind of circuit I can
>>> construct so I can get +5V and -5V output simultaneously, with a +5V
>>> and a -5V regulator? Hopefully no transformer is involved.
>>> I couldn't find any topics thru google search.
>> +5V could be done using a buck converter, sometimes called step-down.
>> -5V requires what's called an inverting converter but that one needs two
>> inductors. Can all be done using regular catalog inductors, no need to
>> wind transformers.
>>
>> Plenty of examples on manufacturers web site. Linear Tenchnology
>> Corporation, Texas Instruments, National Semiconductor, ON Semi, and so
>> on. But first you'd have to determine how much current you need or want
>> to be available on each rail.
>>
>> Since this is a ham radio group be aware of the fact that switch mode
>> converters spew a lot of radio noise around. While you could use a
>> linear regulator for +5V (with potentially lots of heat dissipation) you
>> can't do that for -5V. So the layout has to be as good as if you were
>> designing RF circuitry. Full ground plane and that sort of thing.
>>
>> --
>> Regards, Joerg
>>
>> http://www.analogconsultants.com/
>>
>> "gmail" domain blocked because of excessive spam.
>> Use another domain or send PM.
> ...

>> -5V requires what's called an inverting converter but that one needs two
>> inductors.
>
> Eh? I normally do it with a single inductor...it's exactly the same
> as a boost converter, just referenced to the positive supply. See,
> for example, MAX1846, or LM2673.
>

You can do it with one, especially if you let the ground fly (even the
MC34063 can do that) but I found that I can get better noise performance
using two. AFAIK the LM2673 is positive, the MAX is unobtanium at
Digikey (as usual ...). Anyhow, if Jane does ham radio then noise
matters a lot. Shielded inductors are only shielded on paper unless they
are toroids. There's usually an epoxy gap, fairly big. Of course they
often use black epoxy so it looks better :-)

> OP: If you only need a few mA or less at -5V, you might consider a
> switched-capacitor converter such as the LT1144. At low current, it
> generates nearly the same negative voltage as the positive you put in,
> so you could run it from your +5V supply. If you search some of the
> "likely suspects" that supply power regulator ICs, you'll find some
> that will happily do a positive output voltage and a negative output
> voltage, though things may get complicated enough with one of those
> that you'd just as soon use a couple different ICs. If the power you
> need out of the +5V supply is modest, consider just using a linear
> regulator. The power dissipated in the regulator will be 1.4 times
> the power dissipated in the load you're supplying with the 5V. That
> is, the current drops through 12-5 = 7V in the regulator. 100mA load
> current would cause 0.7W dissipation in the regulator, which would
> probably be easy to handle. If your load current is 10 amps, that
> would be 70 watts dissipation, and you're probably better off with an
> efficient switching regulator.
>

Good point, for very low currents a charge pump can work. Jane might
even rummage through the junk box and find an RS232 chip with a charge
pump on some old modem card. Those often contain an on-chip charge pump,
if that's enough current.

> Suppliers web sites to visit: you might add Maxim to Joerg's list.
> (There are lots of others.)
>

I design electronics for a living and do not use Maxim parts. If it's
for a one-off project and I am lucky to find stock, ok, but not for
production. But that's just my personal opinion.

--
Regards, Joerg

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From -4980611480511024068
X-Google-Thread: fc2a5,7785665ac91e11f9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!newsfeed.straub-nv.de!news.musoftware.de!wum.musoftware.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Joerg <invalid@invalid.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
Date: Sat, 20 Mar 2010 13:45:26 -0700
Organization: Consultant
Lines: 21
Message-ID: <80kqfhFrpsU2@mid.individual.net>
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
<01d6100c-f020-4863-a93d-39c0eec92256@b7g2000yqd.googlegroups.com>
Reply-To: news@analogconsultants.com
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
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In-Reply-To: <01d6100c-f020-4863-a93d-39c0eec92256@b7g2000yqd.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3505

jane wrote:
> Thank everyone for replying. But my question seems not been understood
> correctly.
>
> I want +5V and -5V output simultaneously with common ground in one
> circuit. Not individual +5V or -5V output, one at the time.
>
> That is, if I use +5V terminal and -5V terminal, the voltage
> difference should be +10V.
>

If you use one buck converter and one inverting converter then that will be the case. One ground, and +10V between the two.

--
Regards, Joerg

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From -1214623829030243268
X-Google-Thread: fc2a5,7785665ac91e11f9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!news2.arglkargh.de!news.karotte.org!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Joerg <invalid@invalid.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
Date: Sat, 20 Mar 2010 13:49:17 -0700
Organization: Consultant
Lines: 23
Message-ID: <80kqmoFtscU1@mid.individual.net>
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
<01d6100c-f020-4863-a93d-39c0eec92256@b7g2000yqd.googlegroups.com>
Reply-To: news@analogconsultants.com
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
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Cancel-Lock: sha1:31HfrJSPRsBhkZ+fSTb9GclJW7Y=
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
In-Reply-To: <01d6100c-f020-4863-a93d-39c0eec92256@b7g2000yqd.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3506

jane wrote:
> Thank everyone for replying. But my question seems not been understood
> correctly.
>
> I want +5V and -5V output simultaneously with common ground in one
> circuit. Not individual +5V or -5V output, one at the time.
>
> That is, if I use +5V terminal and -5V terminal, the voltage
> difference should be +10V.
>

You haven't said anything about currents that you needs. If a few
hundred mA you could do both with this chip, one per voltage:

http://www.onsemi.com/pub_link/Collateral/MC34063A-D.PDF

--
Regards, Joerg

http://www.analogconsultants.com/

"gmail" domain blocked because of excessive spam.
Use another domain or send PM.

```
From 3371249152628097872
X-Google-Thread: fc2a5,7785665ac91e11f9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!s36g2000prh.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
Date: Sat, 20 Mar 2010 15:22:42 -0700 (PDT)
Organization: http://groups.google.com
Lines: 3
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Complaints-To: groups-abuse@google.com
Injection-Info: s36g2000prh.googlegroups.com; posting-host=71.112.191.81;
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2)
     Gecko/20100115 Firefox/3.6 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3211

On Mar 20, 1:43=A0pm, Joerg <inva...@invalid.invalid> wrote:
> AFAIK the LM2673 is positive
Ah, you just helped me find a bug in National's website... ;-)
```

```
From -5336674371993550533
X-Google-Thread: fc2a5,7785665ac91e11f9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!STARBAND.NET-a2kHrUvQQWlmc!not-for-mail
From: You <you@shadow.orgs>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
Organization: Shadow.orgs
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
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<7577fc63-dd1f-4c62-ba28-c12cecd107e8@m37g2000yqf.googlegroups.com>
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
Date: Sun, 21 Mar 2010 10:56:45 -0800
Message-ID: <you-0114EF.10564321032010@news.starband.net>
X-Complaints-To: abuse@usenetserver.com
Lines: 25
X-Trace: 222644ba66bf131e5915303889
Xref: g2news1.google.com rec.radio.amateur.homebrew:3212

In article
<7577fc63-dd1f-4c62-ba28-c12cecd107e8@m37g2000yqf.googlegroups.com>,
raypsi <rborowiak@gmail.com> wrote:

> On Mar 19, 2:16 pm, jane <ujitas...@yahoo.com> wrote:
> > Suppose I have a DC power supply of 12V, what kind of circuit I can
> > construct so I can get +5V and -5V output simultaneously, with a +5V
> > and a -5V regulator? Hopefully no transformer is involved.
> >
> > I couldn't find any topics thru google search.
>
> Hey OM:
>
> If you has a DC supply of 12VDC then you must have access to mains of
> 110VAC or 220VAC, I'd use a computer power supply. Sure is alot less
> freaking hassle. Best part is all you has to do is turn the supply on
> wit only 1 jumper and no other construction is needed. And viola' you
> has +5,and -5 VDC all day long.

Jeeze Louise, Guys, Why are you making this so complicated? There are
some really nice encapsulated Dc/Dc Converters in various Power Levels
available, for less that $15US, anywhere in the world. 12 Vdc in and
+/-5 Vdc out. Why reinvent the Wheel... I mean Get Real.... Little
Block of Black Plastic with Four or Five leads coming out, AND they have
been around for DECADES...

From -6826411869619158668
X-Google-Thread: fc2a5,7785665ac91e11f9
X-Google-NewGroupId: yes
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Joerg <invalid@invalid.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
Date: Mon, 22 Mar 2010 08:27:43 -0700
Organization: Consultant
Lines: 42
Message-ID: <80pgjjFlfjU1@mid.individual.net>
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
<7577fc63-dd1f-4c62-ba28-c12cecd107e8@m37g2000yqf.googlegroups.com>
<you-0114EF.10564321032010@news.starband.net>

Reply-To: news@analogconsultants.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: individual.net HSVp6Pyu/uIcFvazgwhPmAoSXCIH7cwGbDKeq9VGlfCz6pp+KP
Cancel-Lock: sha1:y5xyeciXedOtzT72yLjpALSl+uM=
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In-Reply-To: <you-0114EF.10564321032010@news.starband.net>
Xref: g2news1.google.com rec.radio.amateur.homebrew:3213

You wrote:
> In article
> <7577fc63-dd1f-4c62-ba28-c12cecd107e8@m37g2000yqf.googlegroups.com>,
> raypsi <rborowiak@gmail.com> wrote:
>
>> On Mar 19, 2:16 pm, jane <ujitas...@yahoo.com> wrote:
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> available, for less that $15US, anywhere in the world. 12 Vdc in and
> +/-5 Vdc out. Why reinvent the Wheel... I mean Get Real.... Little
> Block of Black Plastic with Four or Five leads coming out, AND they have
> been around for DECADES...

That's like buying ready-to-bake pizza. Yuck :-)

But yes, you can buy those. Doesn't quite fit the charter of this NG (... homebrew ...) though. Also, I found many of those drop-in converters to be very noisy in terms of EMI. In fact, if we can't find a suitable one for a project I might have to roll one today, but higher voltage.

--
Regards, Joerg

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```
From -4433322142737174842
X-Google-Thread: fc2a5,cd3ca1aa920e207f,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe22.iad.POSTED!7564ea0f!not-for-mail
From: "Cannuck" <abra@cabedra.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Heathkit amp value advice?
Lines: 8
MIME-Version: 1.0
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     reply-type=original
Content-Transfer-Encoding: 7bit
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X-MSMail-Priority: Normal
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X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18005
Message-ID: <QzTpn.77707$wr5.27502@newsfe22.iad>
NNTP-Posting-Host: 24.226.47.211
X-Complaints-To: abuse@cogeco.net
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NNTP-Posting-Date: Tue, 23 Mar 2010 00:04:00 UTC
Date: Mon, 22 Mar 2010 20:04:10 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:3511
```

Any advice about this linear amp value?

I am not sure if this is too much or not enough.

http://cgi.ebay.ca/ws/eBayISAPI.dll?
ViewItem&item=110510605077&ssPageName=STRK:MESELX:IT

Thanks

```
From 8539212157746094332
X-Google-Thread: fc2a5,cfac2aca47710080
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 23 Mar 2010 07:08:00 -0500
Date: Tue, 23 Mar 2010 12:07:58 +0000
From: highlandham <highlandham.nospam@rfburns.eu>
```

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User-Agent: Thunderbird 2.0.0.23 (X11/20100301)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: oscillator
References: <3e6552e0-74ba-43ae-9991-9d3e60848209@g28g2000yqh.googlegroups.com>
     <a80ae0ce-6b4f-4e35-a2b1-2f3f4bf88a53@t34g2000prm.googlegroups.com>
<36cb3144-bb89-408a-9854-96e1dee13d92@l25g2000yqd.googlegroups.com>
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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <vbOdncvbfOW9MjXWnZ2dnUVZ7tmdnZ2d@pipex.net>
Lines: 32
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.110.157.35
X-Trace: sv3-
W2xx2YHcoLjwXlMF1s8ESHA88OXhXd+0B6fMZ6LzzLs3dBmrE7e2uIfmhdDlfJUkrKecCwE12MZf89b!
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QxYdAY/yI9Wtflm82qD4GbKWuQ==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3512

JIMMIE wrote:
> On Mar 17, 6:58 pm, K7ITM <k7...@msn.com> wrote:
>> On Mar 15, 2:12 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>>
>>> I have what appears to be a temperature stabilized oscillator made by
>>> CTS knights inc Sandwich IL  Ithas an octal base appears to take two
>>> crystals Part# 900-0196. This is about all I know about it. Any other
>>> info would be appreciated.
>>> Jimmie
>> You sure it's actually an oscillator?  I have some units that could be
>> like you describe that are just thermostat-controlled ovens for
>> crystals.  The oscillator is separate, for the ones I have.  Guess you
>> could find out more: check the resistance between each crystal-socket
>> pin and each of the octal base pins (and perhaps if two of the crystal
>> pins are in parallel, sharing a common ground or equivalent).
>>
>> Cheers,
>> Tom
>
> Thanks Tom. You are correct. Leads from the crystal sockets go
> directly to the octal connector.
>
> Jimmie
===============================
Had a look in my junkbox and found an octal base xtal oven as suggested
above.Make; Cathodeon Crystals Ltd  (probably British)
It can accomodate 2 crystals (probably rx and tx for a single channel
```

trx) ;the heater can be used on 6V or 12V .
Temp.control is trough bimetallic thermostat set at 75 C
These ovens are to be fitted with crystals with a glass envelope .

Frank   GM0CSZ / KN6WH

From 571478607237806296
X-Google-Thread: fc2a5,7785665ac91e11f9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y11g2000prf.googlegroups.com!not-for-mail
From: Andrew VK3BFA <VK3BFA@wia.org.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
Date: Tue, 23 Mar 2010 06:44:02 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <b47341ef-a099-4017-b5e4-bed5163c5728@y11g2000prf.googlegroups.com>
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
NNTP-Posting-Host: 218.215.155.2
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1269351842 31712 127.0.0.1 (23 Mar 2010 13:44:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 23 Mar 2010 13:44:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y11g2000prf.googlegroups.com; posting-host=218.215.155.2;
     posting-account=Cc0OKgoAAAByqbOIrSIn11gD8DGRk_7t
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.20)
     Gecko/20081217 Firefox/2.0.0.20,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3216

On Mar 20, 5:16 am, jane <ujitas...@yahoo.com> wrote:
> Suppose I have a DC power supply of 12V, what kind of circuit I can
> construct so I can get +5V and -5V output simultaneously, with a +5V
> and a -5V regulator? Hopefully no transformer is involved.
>
> I couldn't find any topics thru google search.

Hi Jane,
I suspect you may need to do some learning about power supplies, you will then be able to have some hope of understanding some of the Doctoral Thesis stuff you got for replies.

IF you can get to the AC secondary of the transformer, then you got a good chance - is it switch mode or linear your starting with? - switchmodes are usually lethal to the novice, leave it alone.

IF you cant get to the secondary winding of the transformer, your effectively stuffed, unless you wanna go off and study electronics for a few years.

So. There - hopefully relevant, and succinct.

Andrew VK3BFA.

```
From 1643868654533021692
X-Google-Thread: 112d1e,77d27bccf85d4dc5,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,77d27bccf85d4dc5,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k17g2000yqb.googlegroups.com!not-for-
mail
From: "dave.harper" <dave.harper@gmail.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Square wave to psuedo-sine wave?
Date: Tue, 23 Mar 2010 12:39:59 -0700 (PDT)
Organization: http://groups.google.com
Lines: 20
Message-ID: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
NNTP-Posting-Host: 128.158.1.164
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1269373199 22412 127.0.0.1 (23 Mar 2010 19:39:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 23 Mar 2010 19:39:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k17g2000yqb.googlegroups.com; posting-host=128.158.1.164;
     posting-account=rHEQaggAAAAFTscVchKefpnjROFHTWH8
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.11)
     Gecko/2009060215 Firefox/3.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com sci.electronics.design:151093
rec.radio.amateur.homebrew:3218
```

I'm trying to come up with a filter or converter that takes a square wave input and outputs something closer to a sign wave (varying between ~1.9kHz and 2.1kHz). It can have some distortion, but I'm trying to eliminate the sharp leading and trailing edge. One option I'm pursuing is a bandpass filter (2 caps and 2 resistors), which looks to give a reasonable output, but still not quite as smooth as I'd like. I've also considered using a counter feeding a bank of resistors, but finding a method for it to start counting up with it hits 0 and down when it hits the high value might be more difficult.

Originally, I had used a wein-bridge oscillator with op-amps to make the sine wave, but due to the environment, EMI was a problem and it damped out the oscillations (even with ferrite beads and modest shielding). So I'd like to avoid using op-amps (since they are apparently sensitive to EMI) if possible.

Any suggestions?

Thanks in advance!
Dave

From -2986615720372471280
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
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X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 23 Mar 2010 14:49:52 -0500
Date: Tue, 23 Mar 2010 12:49:41 -0700
From: Tim Wescott <tim@seemywebsite.now>
User-Agent: Thunderbird 2.0.0.24 (X11/20100317)
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
In-Reply-To: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
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Message-ID: <3bmdnb5s74_9hjTWnZ2dnUVZ_uKdnZ2d@web-ster.com>
Lines: 34
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Lk4j8uE7qwK9kwpfEL77LWbVWgU446Icg1nbVIwBryxMp2L08jZhdmf8Zl5/c2ViB6Twk6xiRvUR!
tw8Jy2UtIDy0pTs=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com sci.electronics.design:151098
rec.radio.amateur.homebrew:3219

dave.harper wrote:
> I'm trying to come up with a filter or converter that takes a square
> wave input and outputs something closer to a sign wave (varying
> between ~1.9kHz and 2.1kHz). It can have some distortion, but I'm
> trying to eliminate the sharp leading and trailing edge. One option
> I'm pursuing is a bandpass filter (2 caps and 2 resistors), which
> looks to give a reasonable output, but still not quite as smooth as
> I'd like. I've also considered using a counter feeding a bank of
> resistors, but finding a method for it to start counting up with it
> hits 0 and down when it hits the high value might be more difficult.

>
> Originally, I had used a wein-bridge oscillator with op-amps to make
> the sine wave, but due to the environment, EMI was a problem and it
> damped out the oscillations (even with ferrite beads and modest
> shielding). So I'd like to avoid using op-amps (since they are
> apparently sensitive to EMI) if possible.
>
> Any suggestions?

Use a 4017 counter, plus resistors.

Or, there are some nice 5-pole analog filters out there. Not cheap, but they'll do ya.

You could implement an up/down counter in a PAL. Doing it so that it up/down counts properly shouldn't be too hard.

Or use one of the myriad itty bitty processors out there -- PIC, AVR, whatever.

--
Tim Wescott
Control system and signal processing consulting
www.wescottdesign.com

```
From -3656203272172121958
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 23 Mar 2010 15:00:58 -0500
From: John Larkin <jjlarkin@highNOTlandTHIStechnologyPART.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Tue, 23 Mar 2010 13:00:51 -0700
Message-ID: <l77iq59ter9klfn4lc7a8j6hh9s5hld9np@4ax.com>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
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Lines: 22
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BSMad7ykilTxJGyy+At0KngLfO+kN41u70lefDEkFSEQr4JsGK+CMuuVkzJ9T1xKFHwPjuvF5z!
PyxM3g==
X-Complaints-To: www.supernews.com/docs/abuse.html
```

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X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com sci.electronics.design:165813
rec.radio.amateur.homebrew:3517

On Tue, 23 Mar 2010 12:39:59 -0700 (PDT), "dave.harper"
<dave.harper@gmail.com> wrote:

>I'm trying to come up with a filter or converter that takes a square
>wave input and outputs something closer to a sign wave (varying
>between ~1.9kHz and 2.1kHz).  It can have some distortion, but I'm
>trying to eliminate the sharp leading and trailing edge.  One option
>I'm pursuing is a bandpass filter (2 caps and 2 resistors), which
>looks to give a reasonable output, but still not quite as smooth as
>I'd like.

A lowpass filter is appropriate. You're trying to kill the higher
(odd) harmonics but there's no signal below the fundamental, excepting
DC maybe.

A dual-stage RC lowpass would be pretty good, if you set the -3 dB
point around 2 KHz. A higher-order filter, active or LC, would be even
better. An LC filter isn't unreasonable at 2 KHz.

John




From 7645276101723643 94
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g28g2000yqh.googlegroups.com!not-for-
mail
From: George Herold <ggherold@gmail.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Tue, 23 Mar 2010 13:14:03 -0700 (PDT)
Organization: http://groups.google.com
Lines: 30
Message-ID: <e800bde7-0820-4bea-8c31-9380269ba9ad@g28g2000yqh.googlegroups.com>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
NNTP-Posting-Host: 129.44.255.154
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
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X-Trace: posting.google.com 1269375243 16510 127.0.0.1 (23 Mar 2010 20:14:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 23 Mar 2010 20:14:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g28g2000yqh.googlegroups.com; posting-host=129.44.255.154;
posting-account=_kLX7QoAAAChyHRjRDyv2ieHnlQ_-li2
User-Agent: G2/1.0
X-HTTP-Via: 1.1 TSSERVER01
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
Trident/4.0; SU 3.26; .NET CLR 2.0.50727; .NET CLR 3.0.04506.648; .NET CLR
3.5.21022; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:165817
rec.radio.amateur.homebrew:3518

On Mar 23, 3:39=A0pm, "dave.harper" <dave.har...@gmail.com> wrote:
> I'm trying to come up with a filter or converter that takes a square
> wave input and outputs something closer to a sign wave (varying
> between ~1.9kHz and 2.1kHz). =A0It can have some distortion, but I'm
> trying to eliminate the sharp leading and trailing edge. =A0One option
> I'm pursuing is a bandpass filter (2 caps and 2 resistors), which
> looks to give a reasonable output, but still not quite as smooth as
> I'd like. =A0I've also considered using a counter feeding a bank of
> resistors, but finding a method for it to start counting up with it
> hits 0 and down when it hits the high value might be more difficult.
>
> Originally, I had used a wein-bridge oscillator with op-amps to make
> the sine wave, but due to the environment, EMI was a problem and it
> damped out the oscillations (even with ferrite beads and modest
> shielding). =A0So I'd like to avoid using op-amps (since they are
> apparently sensitive to EMI) if possible.
>
> Any suggestions?
>
> Thanks in advance!
> Dave

Start with a triangle wave, there are less harmonics to filter out.
How bad is the EMI? I like the Wein-bridge. Try using an FET opamp
for it. The only problem I've had with the wien bridge was motor-
boating of the frequency. This was finally solved by using good low
dissipation caps. (Ohh I have seen EMI fuzz.. but only with BJT
opamps.)

George H.

From 8940670413563814301
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: "markp" <map.nospam@f2s.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Tue, 23 Mar 2010 20:50:02 -0000
Lines: 40
Message-ID: <80snjfFe6dU1@mid.individual.net>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
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Cancel-Lock: sha1:F4KLs13P3b0JZGwezO/X6FTdKPo=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Xref: g2news1.google.com sci.electronics.design:151117 rec.radio.amateur.homebrew:3222

"dave.harper" <dave.harper@gmail.com> wrote in message news:62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com...

> I'm trying to come up with a filter or converter that takes a square wave input and outputs something closer to a sign wave (varying between ~1.9kHz and 2.1kHz). It can have some distortion, but I'm trying to eliminate the sharp leading and trailing edge. One option I'm pursuing is a bandpass filter (2 caps and 2 resistors), which looks to give a reasonable output, but still not quite as smooth as I'd like. I've also considered using a counter feeding a bank of resistors, but finding a method for it to start counting up with it hits 0 and down when it hits the high value might be more difficult.
>
> Originally, I had used a wein-bridge oscillator with op-amps to make the sine wave, but due to the environment, EMI was a problem and it damped out the oscillations (even with ferrite beads and modest shielding). So I'd like to avoid using op-amps (since they are apparently sensitive to EMI) if possible.
>
> Any suggestions?
>
> Thanks in advance!
> Dave

One possibility is to use a digital filter. These have very sharp roll-offs (e.g. 8th order for MAX292), you basically feed the clock of the filter with a multiple of the fundamental frequency of the filter (say 64x), and the output is a very pure sine wave. The beauty of this is the amplitude of the output is independent of frequency and you don't have to change filter components:
http://electronicdesign.com/content.aspx?topic=microcontroller-based-sine-wave-generator-has-crys&catpath=test-and-measurement

Another solution is using a multiplexor to create an approximate sine wave

using an 8x clock followed by a filter (the example below uses a pair of
cascaded 2nd order filters). This may suit you better:
http://www.maxim-ic.com/app-notes/index.mvp/id/21

Mark.

```
From 8214029869609826915
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!z3g2000yqz.googlegroups.com!not-for-
mail
From: "dcaster@krl.org" <dcaster@krl.org>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Tue, 23 Mar 2010 16:52:40 -0700 (PDT)
Organization: http://groups.google.com
Lines: 28
Message-ID: <ba2cf04f-f463-4d68-9cd9-3710c10b607b@z3g2000yqz.googlegroups.com>
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Injection-Info: z3g2000yqz.googlegroups.com; posting-host=76.99.198.179;
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.18)
     Gecko/2010020220 Firefox/3.0.18 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com sci.electronics.design:151140
rec.radio.amateur.homebrew:3223
```

On Mar 23, 3:39=A0pm, "dave.harper" <dave.har...@gmail.com> wrote:

> I'm trying to come up with a filter or converter that takes a square
> wave input and outputs something closer to a sign wave (varying
> between ~1.9kHz and 2.1kHz). =A0It can have some distortion, but I'm
> trying to eliminate the sharp leading and trailing edge. =A0One option
> I'm pursuing is a bandpass filter (2 caps and 2 resistors), which
> looks to give a reasonable output, but still not quite as smooth as
> I'd like. =A0I've also considered using a counter feeding a bank of
> resistors, but finding a method for it to start counting up with it
> hits 0 and down when it hits the high value might be more difficult.
>

> Originally, I had used a wein-bridge oscillator with op-amps to make
> the sine wave, but due to the environment, EMI was a problem and it
> damped out the oscillations (even with ferrite beads and modest
> shielding). =A0So I'd like to avoid using op-amps (since they are
> apparently sensitive to EMI) if possible.
>
> Any suggestions?
>
> Thanks in advance!
> Dave

Function generator. Integrate square wave to get triangle wave. Shape
triangle wave to sine wave using a couple of diodes. See

http://kitsrus.com/projects/k23.pdf

Dan

From 5862261148320078424
X-Google-Thread: 241b302a50,77d27bccf85d4dc5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: "Phil Allison" <phil_a@tpg.com.au>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Wed, 24 Mar 2010 11:01:31 +1100
Lines: 25
Message-ID: <80t32uFdb7U1@mid.individual.net>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
<ba2cf04f-f463-4d68-9cd9-3710c10b607b@z3g2000yqz.googlegroups.com>
X-Trace: individual.net nxDz3Ohg6HoVRp30Sz6MmQtJXiliH0Mq6xvhN9Mwlpu/VBU66Q
Cancel-Lock: sha1:hr0zvenEFrgevTWbDQwcFMiLZLo=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Xref: g2news2.google.com sci.electronics.design:165851
rec.radio.amateur.homebrew:3521

<dcaster@krl.org>

Function generator. Integrate square wave to get triangle wave. Shape
triangle wave to sine wave using a couple of diodes. See

http://kitsrus.com/projects/k23.pdf

** Contrary to the OP's wishes, that POS uses op-amps.

Have you seen the ugly " sine" wave it produces ??

The diodes will rectify the RF energy.

Not even a starter.

... Phil

```
From 7522303066825546694
X-Google-Thread: fc2a5,cfac2aca47710080
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!z35g2000yqd.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: oscillator
Date: Tue, 23 Mar 2010 18:53:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 44
Message-ID: <5e7f7cd5-196f-4a4b-90df-8ea5c88985b9@z35g2000yqd.googlegroups.com>
References: <3e6552e0-74ba-43ae-9991-9d3e60848209@g28g2000yqh.googlegroups.com>
     <a80ae0ce-6b4f-4e35-a2b1-2f3f4bf88a53@t34g2000prm.googlegroups.com>
     <36cb3144-bb89-408a-9854-96e1dee13d92@l25g2000yqd.googlegroups.com>
     <vbOdncvbfOW9MjXWnZ2dnUVZ7tmdnZ2d@pipex.net>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269395585 26123 127.0.0.1 (24 Mar 2010 01:53:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 24 Mar 2010 01:53:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z35g2000yqd.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2)
     Gecko/20100115 Firefox/3.6 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3522
```

On Mar 23, 8:07=A0am, highlandham <highlandham.nos...@rfburns.eu> wrote:

> JIMMIE wrote:

```
> > On Mar 17, 6:58 pm, K7ITM <k7...@msn.com> wrote:
> >> On Mar 15, 2:12 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
> >>> I have what appears to be a temperature stabilized oscillator made by
> >>> CTS knights inc Sandwich IL =A0Ithas an octal base appears to take tw=
o
> >>> crystals Part# 900-0196. This is about all I know about it. Any other
> >>> info would be appreciated.
> >>> Jimmie
> >> You sure it's actually an oscillator? =A0I have some units that could =
be
> >> like you describe that are just thermostat-controlled ovens for
> >> crystals. =A0The oscillator is separate, for the ones I have. =A0Guess=
 you
> >> could find out more: check the resistance between each crystal-socket
> >> pin and each of the octal base pins (and perhaps if two of the crystal
> >> pins are in parallel, sharing a common ground or equivalent).
>
> >> Cheers,
> >> Tom
>
> > Thanks Tom. You are correct. Leads from the crystal sockets go
> > directly to the octal connector.
>
> > Jimmie
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D
> Had a look in my junkbox and found an octal base xtal oven as suggested
> above.Make; Cathodeon Crystals Ltd =A0(probably British)
> It can accomodate 2 crystals (probably rx and tx for a single channel
> trx) ;the heater can be used on 6V or 12V .
> Temp.control is trough bimetallic thermostat set at 75 C
> These ovens are to be fitted with crystals with a glass envelope .
>
> Frank =A0 =A0GM0CSZ / KN6WH

I found some more info on mine. 75 C
pin1 24.2 volts pin 3 6.3v
CTS Knights

Jimmie



From 7332531497829084160
X-Google-Thread: fc2a5,8846f7307d266fc6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-02.dc1.easynews.com.POSTED!not-for-mail
From: Roger <Invalid@rogerhalstead.com>
```

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wireless microphones in the USA
Message-ID: <qqjjq5l6ch3rnb9faehgf97j05hojlvqpv@4ax.com>
References: <kMGdnY7NzqPTYPzWnZ2dnUVZ7v6dnZ2d@pipex.net>
<1909d58d-2e26-4bf3-9e1e-8eb7a1a340eb@z26g2000yqm.googlegroups.com>
<280120101734002781%artie.m@gNOSPAMmail.com>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 86
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Wed, 24 Mar 2010 04:42:51 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:3226

On Thu, 28 Jan 2010 17:34:00 -0800, artie <artie.m@gNOSPAMmail.com>
wrote:

>In article
><1909d58d-2e26-4bf3-9e1e-8eb7a1a340eb@z26g2000yqm.googlegroups.com>,
><"JRCCrabtree@gmail.com"> wrote:
>
>> On Jan 28, 3:10?pm, highlandham <highlandham.nos...@rfburns.eu> wrote:
>> > Probably like many of you I just received the following message from FCC
>> > :
>> > ? Under a new FCC rule, anyone who uses a wireless microphone that
>> > operates in the 700 MHz Band must stop operating their wireless
>> > microphone no later than June 12, 2010. ?All users of 700 MHz Band
>> > wireless microphones (and similar devices) - including theaters,
>> > churches, schools, conference centers, theme parks, and musicians --
>> > will need to retune (where possible) or replace their wireless
>> > microphone equipment with other microphone devices no later than June
>> > 12, 2010. This action helps complete an important component of the DTV
>> > Transition by clearing the 700 MHz band to enable the rollout of
>> > communications services for public safety and the deployment of next
>> > generation 4G wireless devices for consumers.
>> >
>> > For further information, please visit the website
>> > atwww.fcc.gov/cgb/wirelessmicrophones
>> >
>> > My question : ?Can these wireless devices be re-tuned ,or have they now
>> > become obsolete. The 700 MHz band is from 698 -806 MHz.
>> >
>> > For many organisations like churches this might become an expensive ruling.
>> >
>> > Frank ? GM0CSZ / KN6WH
>>
>> Frank
>>
>> Thanks for this post. I have care of ca. a dozen wireless

>> microphones. Fortunately they are in two bands at ca. 500MHz.
>>
>> My guess is that it will be difficult to retune these devices to
>> another band, and it will have to be looked at on a case by case
>> basis. The Shure programmable units offer many channels in a
>> relatively small bandwidth. This presumably makes front-end
>> filtering, and PA matching easier.
>>
>> 73 John KC0G
>
>This has been in the works for some time. A number of mic
>manufacturers are offering trade-in and trade-up programs for folks
>with mics in the 700 MHz band.
>
>On the flip side of this ruling, the FCC has admitted that requiring
>licenses for wireless mics (on other bands) is futile at best and for
>the time being at least, is throwing up their collective hands.
>
>The NPRM is FCC-10-16A1.pdf, available at:
>
>http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-10-16A1.pdf
>
>The FCC is seeking comments on the nature of licenses, license
>requirements, and the whole enchilada going forward -- so more changes
>are in store in the future for wireless mics.
>
>But for now, other than clearing the 700 MHz band, churches, schools,
>theatres, and bands are safe using their wireless kit.
>

Not necessarily...They maybe for an indeterminate time, but as soon as
some one is using that portion of the band they will be liable if they
create any interference. OTOH the likely hood of creating
interference is slim even after these segments become populated,
unless they find public safety using them in their area.
I'd not expect to see anything actually active in less than a year and
maybe two. It's rare something like this moves quickly and
particularly with government.

There is a possibility of these being looked at like part 15 devices.
No interference, no worry. Interference means immediate stop, but that
appears to be well in the future.

Roger

>A good site to watch on these matters is:
>
>http://www.commlawblog.com/
>
>it's published by a law firm that does FCC stuff. I'm not associated
>with it; I find it useful.

```
From 1207937622710335386
X-Google-Thread: fc2a5,cd3ca1aa920e207f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!
easynews.com!en-nntp-02.dc1.easynews.com.POSTED!not-for-mail
From: Roger <Invalid@rogerhalstead.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit amp value advice?
Message-ID: <f9kjq59ttqmr3e6g0a3klmice3kih5v3vf@4ax.com>
References: <QzTpn.77707$wr5.27502@newsfe22.iad>
<5gqhq5te0p6us306qtto01stvnnsqoso9i@4ax.com>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 19
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Wed, 24 Mar 2010 04:46:30 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:3227
```

On Tue, 23 Mar 2010 16:26:47 +0000, Jim Higgins
<invalid@invalid.invalid> wrote:

>On Mon, 22 Mar 2010 20:04:10 -0400, "Cannuck" <abra@cabedra.com>
>wrote:
>
>>Any advice about this linear amp value?
>>
>>I am not sure if this is too much or not enough.
>>
>>http://cgi.ebay.ca/ws/eBayISAPI.dll?
ViewItem&item=110510605077&ssPageName=STRK:MESELX:IT
>>
>>Thanks
>
>
>At that price I wouldn't touch it with a 10-foot pole.
>KB3PU
I don't think you'll find it far from average from SB220's in good
shape.

```
From -1833015084225513805
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
```

X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.localnet!news.posted.localnet.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 24 Mar 2010 04:15:20 -0500
Date: Wed, 24 Mar 2010 14:16:57 -0800
From: Robert Baer <robertbaer@localnet.com>
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.21) Gecko/20090403
SeaMonkey/1.1.16
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
In-Reply-To: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <0eydneQMzIm1RTTWnZ2dnUVZ_uYAAAAA@posted.localnet>
Lines: 23
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 4.242.234.141
X-Trace: sv3-oixV4FNvPDuYSTizPDJcOMUCDdeYqzcvsMJbmnfuJgVh7tS5tHEH/
EjimmqdV9FnZlcUYW96oxC0qW7!1+9wxkLjxJ8g8BgTbJukWgdo2yLvN/
zLXHYGN96XWMWaEH98KdORyUknGxq7ZCBx8xTEA5XKvLiO!436MBmEZ3HwG8YMouMKEvCvKhoNH1P4=
X-Complaints-To: abuse@localnet.com
X-DMCA-Complaints-To: abuse@localnet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com sci.electronics.design:165935
rec.radio.amateur.homebrew:3525

dave.harper wrote:
> I'm trying to come up with a filter or converter that takes a square
> wave input and outputs something closer to a sign wave (varying
> between ~1.9kHz and 2.1kHz). It can have some distortion, but I'm
> trying to eliminate the sharp leading and trailing edge. One option
> I'm pursuing is a bandpass filter (2 caps and 2 resistors), which
> looks to give a reasonable output, but still not quite as smooth as
> I'd like. I've also considered using a counter feeding a bank of
> resistors, but finding a method for it to start counting up with it
> hits 0 and down when it hits the high value might be more difficult.
>
> Originally, I had used a wein-bridge oscillator with op-amps to make
> the sine wave, but due to the environment, EMI was a problem and it
> damped out the oscillations (even with ferrite beads and modest
> shielding). So I'd like to avoid using op-amps (since they are
> apparently sensitive to EMI) if possible.
>
> Any suggestions?
>
> Thanks in advance!

```
> Dave
   You have such a narrow "bandwidth" that you might consider an LC
tuned network..



From 4254252495596480887
X-Google-Thread: fc2a5,cd3ca1aa920e207f
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!15g2000yqi.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heathkit amp value advice?
Date: Wed, 24 Mar 2010 04:43:56 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <0b0be48d-7b5f-4a13-b049-b33e7229e46f@15g2000yqi.googlegroups.com>
References: <QzTpn.77707$wr5.27502@newsfe22.iad>
<5gqhq5te0p6us306qtto01stvnnsqoso9i@4ax.com>
     <f9kjq59ttqmr3e6g0a3klmice3kih5v3vf@4ax.com>
NNTP-Posting-Host: 99.181.120.209
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1269431036 6363 127.0.0.1 (24 Mar 2010 11:43:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 24 Mar 2010 11:43:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 15g2000yqi.googlegroups.com; posting-host=99.181.120.209;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
     rv:1.8.1.24pre) Gecko/20100228 K-Meleon/1.5.4,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3229

On Mar 24, 4:46 am, Roger <Inva...@rogerhalstead.com> wrote:
> On Tue, 23 Mar 2010 16:26:47 +0000, Jim Higgins
>
> <inva...@invalid.invalid> wrote:
> >On Mon, 22 Mar 2010 20:04:10 -0400, "Cannuck" <a...@cabedra.com>
> >wrote:
>
> >>Any advice about this linear amp value?
>
> >>I am not sure if this is too much or not enough.
>
> >>http://cgi.ebay.ca/ws/eBayISAPI.dll?ViewItem&item=110510605077&ssPage...
>
> >>Thanks
>
> >At that price I wouldn't touch it with a 10-foot pole.
> >KB3PU
```

```
>
> I don't think you'll find it far from average from SB220's in good
> shape.

Hey OM
You only posted in 3 groups? wft?
I mean if I was going to drum up some onlookers I'd go to the FCC data
base and email every single licensed ham radio operator.
But it won't matter some chicken bander will be the only sucker you
can find for that. In your description you say the tubes and fan light
up?

If the fan lights up you gots trouble.

73 OM
de n8zu



From -4483369002565988984
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
k17g2000yqb.googlegroups.com!not-for-mail
From: "dcaster@krl.org" <dcaster@krl.org>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Wed, 24 Mar 2010 05:15:56 -0700 (PDT)
Organization: http://groups.google.com
Lines: 28
Message-ID: <f6415b5d-e153-4456-ac4d-2d12d771dda8@k17g2000yqb.googlegroups.com>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
     <ba2cf04f-f463-4d68-9cd9-3710c10b607b@z3g2000yqz.googlegroups.com>
     <80t32uFdb7U1@mid.individual.net>
NNTP-Posting-Host: 76.99.198.179
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269432956 31168 127.0.0.1 (24 Mar 2010 12:15:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 24 Mar 2010 12:15:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k17g2000yqb.googlegroups.com; posting-host=76.99.198.179;
     posting-account=WLmiLgkAAAAVWBurnGT0ZXLQOekkDFxy
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.18)
     Gecko/2010020220 Firefox/3.0.18 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com sci.electronics.design:151233
rec.radio.amateur.homebrew:3230

On Mar 23, 8:01=A0pm, "Phil Allison" <phi...@tpg.com.au> wrote:
> <dcas...@krl.org>
```

>
> Function generator. Integrate square wave to get triangle wave. =A0Shape
> triangle wave to sine wave using a couple of diodes. =A0See
>
> http://kitsrus.com/projects/k23.pdf
>
> ** Contrary to the OP's wishes, that POS uses op-amps.
>
> =A0Have you seen the ugly " sine" =A0wave it produces ??
>
> =A0The diodes will rectify the RF energy.
>
> =A0 Not even a starter.
>
> ... =A0Phil

Contrary to what you think, the OP seems like he would be happy with a sine wave with only 1% distortion. The diodes will rectify RF but at the output the signal level should be several orders of magnitude higher than the RF. So would not expect that to be a problem. The reference to the kitsrus was to show one implementation that had an explanation of the circuit.

=20
Dan

```
From 7453817077105605332
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!feeder.erje.net!
feeder.eternal-september.org!eternal-september.org!.POSTED.76.245.121.206!not-for-
mail
From: "Bob Eld" <nsmontassoc@yahoo.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Wed, 24 Mar 2010 05:03:04 -0800
Organization: A noiseless patient Spider
Lines: 31
Message-ID: <hod2hb$rnu$1@news.eternal-september.org>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
Injection-Date: Wed, 24 Mar 2010 13:02:35 +0000 (UTC)
Injection-Info: news.motzarella.org; posting-host="76.245.121.206";
     logging-data="28414"; mail-complaints-to="abuse@eternal-september.org"
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
X-Priority: 3
X-Newsreader: Microsoft Outlook Express 6.00.2600.0000
X-MSMail-Priority: Normal
```

Xref: g2news2.google.com sci.electronics.design:165947
rec.radio.amateur.homebrew:3528

"dave.harper" <dave.harper@gmail.com> wrote in message
news:62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com...
> I'm trying to come up with a filter or converter that takes a square
> wave input and outputs something closer to a sign wave (varying
> between ~1.9kHz and 2.1kHz). It can have some distortion, but I'm
> trying to eliminate the sharp leading and trailing edge. One option
> I'm pursuing is a bandpass filter (2 caps and 2 resistors), which
> looks to give a reasonable output, but still not quite as smooth as
> I'd like. I've also considered using a counter feeding a bank of
> resistors, but finding a method for it to start counting up with it
> hits 0 and down when it hits the high value might be more difficult.
>
> Originally, I had used a wein-bridge oscillator with op-amps to make
> the sine wave, but due to the environment, EMI was a problem and it
> damped out the oscillations (even with ferrite beads and modest
> shielding). So I'd like to avoid using op-amps (since they are
> apparently sensitive to EMI) if possible.
>
> Any suggestions?
>
> Thanks in advance!
> Dave

I would make a five pole elliptic low pass active filter breaking at about 3 kHz with a deep 80 dB notch at the third harmonic of 6 kHz. This is a dual op amp (2 section) solution and uses a small number of resistors and caps. You should be able to attenuate all of the harmonics at least 80 dB leaving a pretty good sine wave.

From -5496605765679172498
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
news.dfncis.de!not-for-mail
From: Uwe Hercksen <hercksen@mew.uni-erlangen.de>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Wed, 24 Mar 2010 15:06:09 +0100
Lines: 18
Message-ID: <80ukihF7lkU1@mid.dfncis.de>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
Mime-Version: 1.0

```
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.dfncis.de ChX2AxApWwAhxfO0EFvNNw0GFJB+Irr/pBdg6XO9gvZiHX
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; de-DE; rv:1.4) Gecko/20030619
Netscape/7.1 (ax)
X-Accept-Language: de-de, de
In-Reply-To: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
Xref: g2news1.google.com sci.electronics.design:151247
rec.radio.amateur.homebrew:3233
```

dave.harper schrieb:

> Originally, I had used a wein-bridge oscillator with op-amps to make
> the sine wave, but due to the environment, EMI was a problem and it
> damped out the oscillations (even with ferrite beads and modest
> shielding). So I'd like to avoid using op-amps (since they are
> apparently sensitive to EMI) if possible.

Hello,

a Wien-Robinson bridge oscillator needs a good amplitude stabilisation.
If the amplification is to low, the oscillations will damp out. I guess
there was something wrong with your amplitude stabilisation.

Bye

```
From -1495373214834891794
X-Google-Thread: 241b302a50,77d27bccf85d4dc5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Don Lancaster <don@tinaja.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Wed, 24 Mar 2010 08:25:49 -0700
Lines: 50
Message-ID: <80up7kF580U1@mid.individual.net>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
<hod2hb$rnu$1@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: individual.net aZkHbaN+rBcSgrVm6RgUdAoM3egsNiWVx9KPlyGu9khTRCyQCz
Cancel-Lock: sha1:TGIVewPEW9iSFDux8fL6PvHV77g=
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
In-Reply-To: <hod2hb$rnu$1@news.eternal-september.org>
Xref: g2news2.google.com sci.electronics.design:165968
```

rec.radio.amateur.homebrew:3531

Bob Eld wrote:
> "dave.harper" <dave.harper@gmail.com> wrote in message
> news:62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com...
>> I'm trying to come up with a filter or converter that takes a square
>> wave input and outputs something closer to a sign wave (varying
>> between ~1.9kHz and 2.1kHz). It can have some distortion, but I'm
>> trying to eliminate the sharp leading and trailing edge. One option
>> I'm pursuing is a bandpass filter (2 caps and 2 resistors), which
>> looks to give a reasonable output, but still not quite as smooth as
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>> apparently sensitive to EMI) if possible.
>>
>> Any suggestions?
>>
>> Thanks in advance!
>> Dave
>
> I would make a five pole elliptic low pass active filter breaking at about 3
> kHz with a deep 80 dB notch at the third harmonic of 6 kHz. This is a dual
> op amp (2 section) solution and uses a small number of resistors and caps.
> You should be able to attenuate all of the harmonics at least 80 dB leaving
> a pretty good sine wave.
>
>

Parallax invented the ultimate in mind-numbingly simple sinewave
generators many years ago. SIX BYTES !!! of working code on a PIC!!!!

Start with page 85.3 of http://www.tinaja.com/glib/hackar4.pdf

--
Many thanks,

Don Lancaster   voice phone: (928)428-4073
Synergetics   3860 West First Street   Box 809 Thatcher, AZ 85552
rss: http://www.tinaja.com/whtnu.xml   email: don@tinaja.com

Please visit my GURU's LAIR web site at http://www.tinaja.com

From -2495200931834068494
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 24 Mar 2010 12:53:16 -0500
Date: Wed, 24 Mar 2010 12:53:45 -0500
From: Vladimir Vassilevsky <nospam@nowhere.com>
Organization: AbVolt, Ltd.
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en,ru
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
<hod2hb$rnu$1@news.eternal-september.org>
In-Reply-To: <hod2hb$rnu$1@news.eternal-september.org>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <NoGdnXIQlbwRzDfWnZ2dnUVZ_g-dnZ2d@giganews.com>
Lines: 25
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
Hi7Qhq9Ug0rJKYEGXRHipx4dZQDXAyX1tpBs25L7VdE0tiygek1ryZ441iQe5sOJmXv2QH1gHjudmiI!
KI121S8Wuz7Too//azsR6FL64WNBzTvHUfLl9RnrBCV7MyJtbgEuUFmqTDALo0ttFpc1BJY3wYE=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com sci.electronics.design:151269
rec.radio.amateur.homebrew:3235

Bob Eld wrote:

> I would make a five pole elliptic low pass active filter breaking at about 3
> kHz with a deep 80 dB notch at the third harmonic of 6 kHz. This is a dual
> op amp (2 section) solution and uses a small number of resistors and caps.
> You should be able to attenuate all of the harmonics at least 80 dB leaving
> a pretty good sine wave.

Here is minimal solution:

http://www.abvolt.com/misc/square_to_sine.jpg

This filter makes for about 0.65% of THD; it is probably as good as it
could be done in reality with this number of components.

Vladimir Vassilevsky
DSP and Mixed Signal Design Consultant
http://www.abvolt.com

```
From 441898852963531957
X-Google-Thread: 241b302a50,77d27bccf85d4dc5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!q15g2000yqj.googlegroups.com!not-for-mail
From: "dave.harper" <dave.harper@gmail.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Wed, 24 Mar 2010 11:12:31 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <6474664c-26fa-476d-aa99-3226e2b0894f@q15g2000yqj.googlegroups.com>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
     <80ukihF7lkU1@mid.dfncis.de>
NNTP-Posting-Host: 128.158.1.165
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269454351 27691 127.0.0.1 (24 Mar 2010 18:12:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 24 Mar 2010 18:12:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q15g2000yqj.googlegroups.com; posting-host=128.158.1.165;
     posting-account=rHEQaggAAAAFTscVchKefpnjROFHTWH8
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.11)
     Gecko/2009060215 Firefox/3.0.11,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:165982
rec.radio.amateur.homebrew:3533
```

On Mar 24, 9:06=A0am, Uwe Hercksen <herck...@mew.uni-erlangen.de> wrote:
> dave.harper schrieb:
>
> > Originally, I had used a wein-bridge oscillator with op-amps to make
> > the sine wave, but due to the environment, EMI was a problem and it
> > damped out the oscillations (even with ferrite beads and modest

> > shielding). =A0So I'd like to avoid using op-amps (since they are
> > apparently sensitive to EMI) if possible.
>
> Hello,
>
> a Wien-Robinson bridge oscillator needs a good amplitude stabilisation.
> If the amplification is to low, the oscillations will damp out. I guess
> there was something wrong with your amplitude stabilisation.
>
> Bye

No, I used non-linear feedback (diodes) and it worked like a champ. O-scope showed a nice, rounded, stable wave with no clipping. It was only when the nearby transmitter was turned on, the oscillations damped out.

Dave

```
From -6955771890482094277
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!x12g2000yqx.googlegroups.com!not-for-
mail
From: "dave.harper" <dave.harper@gmail.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Wed, 24 Mar 2010 11:22:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 147
Message-ID: <26bdccf8-6af8-47bc-92d6-d1c78635565a@x12g2000yqx.googlegroups.com>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
     <l77iq59ter9klfn4lc7a8j6hh9s5hld9np@4ax.com>
NNTP-Posting-Host: 128.158.1.166
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269454948 3070 127.0.0.1 (24 Mar 2010 18:22:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 24 Mar 2010 18:22:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x12g2000yqx.googlegroups.com; posting-host=128.158.1.166;
     posting-account=rHEQaggAAAAFTscVchKefpnjROFHTWH8
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.11)
     Gecko/2009060215 Firefox/3.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com sci.electronics.design:151281
rec.radio.amateur.homebrew:3237
```

On Mar 23, 3:00=A0pm, John Larkin
<jjlar...@highNOTlandTHIStechnologyPART.com> wrote:

> On Tue, 23 Mar 2010 12:39:59 -0700 (PDT), "dave.harper"
>
> <dave.har...@gmail.com> wrote:
>
> > I'm trying to come up with a filter or converter that takes a square wave input and outputs something closer to a sign wave (varying between ~1.9kHz and 2.1kHz). =A0It can have some distortion, but I'm trying to eliminate the sharp leading and trailing edge. =A0One option I'm pursuing is a bandpass filter (2 caps and 2 resistors), which looks to give a reasonable output, but still not quite as smooth as I'd like.
>
> A lowpass filter is appropriate. You're trying to kill the higher (odd) harmonics but there's no signal below the fundamental, excepting DC maybe.
>
> A dual-stage RC lowpass would be pretty good, if you set the -3 dB point around 2 KHz. A higher-order filter, active or LC, would be even better. An LC filter isn't unreasonable at 2 KHz.
>
> John

I modeled a few low pass filters, and think this is the best solution. I have 3 RC low-pass filters and the output looks relatively sine-like. Thanks to everyone that provided good suggestions! Here's the schematic in LTSpice (comments appreciated):

```
Version 4
SHEET 1 1476 680
WIRE 592 -608 0 -608
WIRE -80 -528 -160 -528
WIRE -80 -496 -80 -528
WIRE -160 -464 -160 -528
WIRE 464 -368 32 -368
WIRE 144 -304 80 -304
WIRE 80 -256 80 -304
WIRE 144 -240 144 -304
WIRE 160 -240 144 -240
WIRE 416 -240 416 -256
WIRE 416 -240 384 -240
WIRE -160 -176 -160 -400
WIRE 0 -176 0 -608
WIRE 0 -176 -160 -176
WIRE 160 -176 0 -176
WIRE 464 -176 464 -368
WIRE 464 -176 384 -176
WIRE -592 -144 -592 -192
WIRE -544 -144 -592 -144
WIRE -432 -144 -464 -144
WIRE -352 -144 -352 -192
WIRE -352 -144 -432 -144
WIRE -352 -112 -352 -144
WIRE 160 -112 96 -112
WIRE 592 -112 592 -608
WIRE 592 -112 384 -112
WIRE -592 -96 -592 -144
WIRE -432 -96 -432 -144
WIRE 32 -96 32 -368
WIRE 32 -96 -160 -96
WIRE 160 -48 144 -48
WIRE 448 -48 384 -48
WIRE -592 16 -592 -16
WIRE -432 16 -432 -16
WIRE -352 16 -352 -48
WIRE 448 16 448 -48
WIRE -160 32 -160 -16
WIRE 144 32 144 -48
WIRE 144 32 -160 32
WIRE 144 80 144 32
WIRE 208 80 144 80
WIRE 448 128 448 80
WIRE 96 160 96 -112
WIRE 96 240 -64 240
WIRE -64 256 -64 240
WIRE 96 288 96 240
WIRE -64 336 -224 336
WIRE -224 352 -224 336
WIRE -64 384 -64 336
WIRE -224 432 -384 432
WIRE -224 480 -224 432
FLAG -592 16 0
FLAG 80 -256 0
FLAG -592 -192 +5V
FLAG 416 -256 +5V
FLAG -352 16 0
FLAG -432 16 0
FLAG -352 -192 +2.5V
FLAG 448 128 0
FLAG -80 -496 0
FLAG 208 80 +5V
FLAG -64 448 0
FLAG 96 352 0
FLAG -224 544 0
SYMBOL voltage -592 -112 R0
WINDOW 123 0 0 Left 0
WINDOW 39 0 0 Left 0
WINDOW 0 -66 54 Left 0
WINDOW 3 47 51 Left 0
SYMATTR InstName V1
SYMATTR Value 5
SYMBOL res -560 -128 R270
WINDOW 0 32 56 VTop 0
WINDOW 3 0 56 VBottom 0
SYMATTR InstName R6
SYMATTR Value 1k
```

```
SYMBOL res -448 -112 R0
SYMATTR InstName R7
SYMATTR Value 1k
SYMBOL polcap -368 -112 R0
SYMATTR InstName C3
SYMATTR Value 10=B5
SYMBOL Misc\\NE555 272 -144 R0
SYMATTR InstName U1
SYMBOL cap 432 16 R0
SYMATTR InstName C1
SYMATTR Value 10nF
SYMBOL res -176 -192 R0
SYMATTR InstName R2
SYMATTR Value 33500
SYMBOL res -176 -112 R0
SYMATTR InstName R1
SYMATTR Value 1000
SYMBOL cap -176 -464 R0
SYMATTR InstName C2
SYMATTR Value .01=B5F
SYMBOL cap -80 384 R0
SYMATTR InstName C4
SYMATTR Value .08=B5F
SYMBOL res -80 240 R0
SYMATTR InstName R3
SYMATTR Value 1000
SYMBOL cap 80 288 R0
SYMATTR InstName C10
SYMATTR Value .08=B5F
SYMBOL res 80 144 R0
SYMATTR InstName R8
SYMATTR Value 1000
SYMBOL cap -240 480 R0
SYMATTR InstName C11
SYMATTR Value .08=B5F
SYMBOL res -240 336 R0
SYMATTR InstName R12
SYMATTR Value 1000
TEXT -648 -472 Left 0 !.tran 0 5ms 0 1u
TEXT -648 -432 Left 0 !.ic V(in1)=3D2.7
TEXT -648 -512 Left 0 ;555 Radio Modem
```

```
From 5723579375585481658
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g28g2000yqh.googlegroups.com!not-for-
mail
From: john@jjdesigns.fsnet.co.uk
```

Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Wed, 24 Mar 2010 13:56:59 -0700 (PDT)
Organization: http://groups.google.com
Lines: 213
Message-ID: <2b6f7a7b-b2e8-4f25-b9a7-84d9e67290be@g28g2000yqh.googlegroups.com>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
     <l77iq59ter9klfn4lc7a8j6hh9s5hld9np@4ax.com> <26bdccf8-6af8-47bc-92d6-
d1c78635565a@x12g2000yqx.googlegroups.com>
NNTP-Posting-Host: 78.147.118.175
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269464219 22796 127.0.0.1 (24 Mar 2010 20:56:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 24 Mar 2010 20:56:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g28g2000yqh.googlegroups.com; posting-host=78.147.118.175;
     posting-account=EWYHzgkAAACMmOhbuSIbFFhRhM_IrXtT
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.80 (Windows NT 5.1; U; en) Presto/2.2.15
     Version/10.10,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:166024
rec.radio.amateur.homebrew:3535

On 24 Mar, 18:22, "dave.harper" <dave.har...@gmail.com> wrote:
> On Mar 23, 3:00=A0pm, John Larkin
>
>
>
>
>
> <jjlar...@highNOTlandTHIStechnologyPART.com> wrote:
> > On Tue, 23 Mar 2010 12:39:59 -0700 (PDT), "dave.harper"
>
> > <dave.har...@gmail.com> wrote:
> > >I'm trying to come up with a filter or converter that takes a square
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> > >between ~1.9kHz and 2.1kHz). =A0It can have some distortion, but I'm
> > >trying to eliminate the sharp leading and trailing edge. =A0One option
> > >I'm pursuing is a bandpass filter (2 caps and 2 resistors), which
> > >looks to give a reasonable output, but still not quite as smooth as
> > >I'd like.
>
> > A lowpass filter is appropriate. You're trying to kill the higher
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> > DC maybe.
>
> > A dual-stage RC lowpass would be pretty good, if you set the -3 dB
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> > better. An LC filter isn't unreasonable at 2 KHz.
>
> > John

>
> I modeled a few low pass filters, and think this is the best
> solution. =A0I have 3 RC low-pass filters and the output looks
> relatively sine-like. =A0Thanks to everyone that provided good
> suggestions! =A0Here's the schematic in LTSpice (comments appreciated):

An inductor really does make a big difference for these kind of jobs
and only costs pennies.
I've tacked on an LC filter to your drawing.
Output is 5Vpkpk sine at very low distortion.
(filter is a 3rd order, Chebyshev, low pass, with 6db passband ripple
and a Zero notch at 6kHz. Components rounded to preferred values)
[replacement for LTlist...]

```
Version 4
SHEET 1 1748 680
WIRE -80 -528 -160 -528
WIRE 592 -528 0 -528
WIRE -80 -496 -80 -528
WIRE -160 -464 -160 -528
WIRE 464 -368 32 -368
WIRE 144 -304 80 -304
WIRE 80 -256 80 -304
WIRE 144 -240 144 -304
WIRE 160 -240 144 -240
WIRE 416 -240 416 -256
WIRE 416 -240 384 -240
WIRE -160 -176 -160 -400
WIRE 0 -176 0 -528
WIRE 0 -176 -160 -176
WIRE 160 -176 0 -176
WIRE 464 -176 464 -368
WIRE 464 -176 384 -176
WIRE -592 -144 -592 -192
WIRE -544 -144 -592 -144
WIRE -432 -144 -464 -144
WIRE -352 -144 -352 -192
WIRE -352 -144 -432 -144
WIRE -352 -112 -352 -144
WIRE 160 -112 96 -112
WIRE 592 -112 592 -528
WIRE 592 -112 384 -112
WIRE -592 -96 -592 -144
WIRE -432 -96 -432 -144
WIRE 32 -96 32 -368
WIRE 32 -96 -160 -96
WIRE 160 -48 144 -48
WIRE 448 -48 384 -48
WIRE 448 -32 448 -48
WIRE -592 16 -592 -16
WIRE -432 16 -432 -16
WIRE -352 16 -352 -48
WIRE -160 32 -160 -16
WIRE 144 32 144 -48
WIRE 144 32 -160 32
WIRE 848 48 784 48
WIRE 960 48 912 48
WIRE 448 64 448 32
WIRE 144 80 144 32
WIRE 208 80 144 80
WIRE 96 128 96 -112
WIRE 128 128 96 128
WIRE 576 144 560 144
WIRE 640 144 576 144
WIRE 784 144 784 48
WIRE 784 144 720 144
WIRE 832 144 784 144
WIRE 960 144 960 48
WIRE 960 144 912 144
WIRE 1104 144 960 144
WIRE 1152 144 1104 144
WIRE 96 160 96 128
WIRE 1104 224 1104 144
WIRE 96 240 -64 240
WIRE -64 256 -64 240
WIRE 784 256 784 144
WIRE 960 256 960 144
WIRE 96 288 96 240
WIRE -64 336 -224 336
WIRE -224 352 -224 336
WIRE 784 352 784 320
WIRE 960 352 960 320
WIRE 1104 352 1104 304
WIRE -64 384 -64 336
WIRE -224 464 -224 432
WIRE -224 464 -368 464
WIRE -224 480 -224 464
FLAG -592 16 0
FLAG 80 -256 0
FLAG -592 -192 +5V
FLAG 416 -256 +5V
FLAG -352 16 0
FLAG -432 16 0
FLAG -352 -192 +2.5V
FLAG 448 64 0
FLAG -80 -496 0
FLAG 208 80 +5V
FLAG -64 448 0
FLAG 96 352 0
FLAG -224 544 0
FLAG 1104 352 0
FLAG 960 352 0
FLAG 784 352 0
FLAG 576 144 Square
FLAG 1152 144 Sineout
FLAG 128 128 Square
```

```
SYMBOL voltage -592 -112 R0
WINDOW 123 0 0 Left 0
WINDOW 39 0 0 Left 0
WINDOW 0 -66 54 Left 0
WINDOW 3 47 51 Left 0
SYMATTR InstName V1
SYMATTR Value 5
SYMBOL res -560 -128 R270
WINDOW 0 32 56 VTop 0
WINDOW 3 0 56 VBottom 0
SYMATTR InstName R6
SYMATTR Value 1k
SYMBOL res -448 -112 R0
SYMATTR InstName R7
SYMATTR Value 1k
SYMBOL polcap -368 -112 R0
SYMATTR InstName C3
SYMATTR Value 10=B5
SYMBOL Misc\\NE555 272 -144 R0
SYMATTR InstName U1
SYMBOL cap 432 -32 R0
SYMATTR InstName C1
SYMATTR Value 10nF
SYMBOL res -176 -192 R0
SYMATTR InstName R2
SYMATTR Value 33500
SYMBOL res -176 -112 R0
SYMATTR InstName R1
SYMATTR Value 1000
SYMBOL cap -176 -464 R0
SYMATTR InstName C2
SYMATTR Value .01=B5F
SYMBOL cap -80 384 R0
SYMATTR InstName C4
SYMATTR Value .08=B5F
SYMBOL res -80 240 R0
SYMATTR InstName R3
SYMATTR Value 1000
SYMBOL cap 80 288 R0
SYMATTR InstName C10
SYMATTR Value .08=B5F
SYMBOL res 80 144 R0
SYMATTR InstName R8
SYMATTR Value 1000
SYMBOL cap -240 480 R0
SYMATTR InstName C11
SYMATTR Value .08=B5F
SYMBOL res -240 336 R0
SYMATTR InstName R12
SYMATTR Value 1000
SYMBOL ind 928 128 R90
WINDOW 0 5 56 VBottom 0
WINDOW 3 32 56 VTop 0
```

```
SYMATTR InstName L1
SYMATTR Value 15m
SYMBOL cap 912 32 R90
WINDOW 0 0 32 VBottom 0
WINDOW 3 32 32 VTop 0
SYMATTR InstName C5
SYMATTR Value 47n
SYMBOL cap 944 256 R0
SYMATTR InstName C6
SYMATTR Value 680n
SYMBOL cap 768 256 R0
SYMATTR InstName C7
SYMATTR Value 680n
SYMBOL res 736 128 R90
WINDOW 0 0 56 VBottom 0
WINDOW 3 32 56 VTop 0
SYMATTR InstName R4
SYMATTR Value 330
SYMBOL res 1120 320 R180
WINDOW 0 36 76 Left 0
WINDOW 3 36 40 Left 0
SYMATTR InstName R5
SYMATTR Value 1k8
TEXT -648 -472 Left 0 !.tran 0 50ms 0 1u
TEXT -648 -432 Left 0 !.ic V(in1)=3D2.7
TEXT -648 -512 Left 0 ;555 Radio Modem
```

```
From 5146140888865762395
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 24 Mar 2010 16:02:26 -0500
Date: Wed, 24 Mar 2010 14:02:12 -0700
From: Tim Wescott <tim@seemywebsite.now>
User-Agent: Thunderbird 2.0.0.24 (X11/20100317)
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
     <l77iq59ter9klfn4lc7a8j6hh9s5hld9np@4ax.com> <26bdccf8-6af8-47bc-92d6-
d1c78635565a@x12g2000yqx.googlegroups.com>
In-Reply-To: <26bdccf8-6af8-47bc-92d6-d1c78635565a@x12g2000yqx.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <r_SdnVrKc8x_4DfWnZ2dnUVZ_sGdnZ2d@web-ster.com>
Lines: 36
```

```
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-DUPRjTqB7AeCGRlwK2A6sDvvu2UeDj9SgA9U8IEZ2pRcoN6euqg/
wNZQHddKskpOeUe7bvsd10VthxE!G/
pJyzLj9bdVEdm+Uo7OUe0gqBRsVDaiDzHwvM6XMrCkNYsb5VbPxoi7uZF+OqfIURhqC7HE0gEu!
aJUBCOHf7DDaLd4=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com sci.electronics.design:166025
rec.radio.amateur.homebrew:3536

dave.harper wrote:
> On Mar 23, 3:00 pm, John Larkin
> <jjlar...@highNOTlandTHIStechnologyPART.com> wrote:
>> On Tue, 23 Mar 2010 12:39:59 -0700 (PDT), "dave.harper"
>>
>> <dave.har...@gmail.com> wrote:
>>> I'm trying to come up with a filter or converter that takes a square
>>> wave input and outputs something closer to a sign wave (varying
>>> between ~1.9kHz and 2.1kHz).  It can have some distortion, but I'm
>>> trying to eliminate the sharp leading and trailing edge.  One option
>>> I'm pursuing is a bandpass filter (2 caps and 2 resistors), which
>>> looks to give a reasonable output, but still not quite as smooth as
>>> I'd like.
>> A lowpass filter is appropriate. You're trying to kill the higher
>> (odd) harmonics but there's no signal below the fundamental, excepting
>> DC maybe.
>>
>> A dual-stage RC lowpass would be pretty good, if you set the -3 dB
>> point around 2 KHz. A higher-order filter, active or LC, would be even
>> better. An LC filter isn't unreasonable at 2 KHz.
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>> John
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> I modeled a few low pass filters, and think this is the best
> solution.  I have 3 RC low-pass filters and the output looks
> relatively sine-like.  Thanks to everyone that provided good
> suggestions!  Here's the schematic in LTSpice (comments appreciated):

If a well-designed Wien bridge oscillator gets hammered by RFI, you're
somewhat depending on luck that an active filter doesn't have the same
problem.

--
Tim Wescott
Control system and signal processing consulting
www.wescottdesign.com


From 6455675710596582679
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
```

X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 24 Mar 2010 18:07:48 -0500
From: John Larkin <jjlarkin@highNOTlandTHIStechnologyPART.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Wed, 24 Mar 2010 16:07:41 -0700
Message-ID: <re6lq5p7fednl05lsc7713hk15b95v8c6q@4ax.com>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
<l77iq59ter9klfn4lc7a8j6hh9s5hld9np@4ax.com> <26bdccf8-6af8-47bc-92d6-
d1c78635565a@x12g2000yqx.googlegroups.com>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 164
X-Trace: sv3-
cNwnY9YQWJg6FnhYASkMFFibTf1Lc7qhHn3rb5zpRxrS4XXKUavUU8Noe9Mg0I1KI47rEAjYwp9c790!
agrMPkKLazvO93dJkCcKxUjQ/CvnTeat/rATiTAaEjfNkOiyR135Ww0U3lF51nfZOEUUb+X9Ifx3!
8S34Vw==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com sci.electronics.design:166054
rec.radio.amateur.homebrew:3537

On Wed, 24 Mar 2010 11:22:28 -0700 (PDT), "dave.harper"
<dave.harper@gmail.com> wrote:

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```
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>>
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>
>Version 4
>SHEET 1 1476 680
>WIRE 592 -608 0 -608
>WIRE -80 -528 -160 -528
>WIRE -80 -496 -80 -528
>WIRE -160 -464 -160 -528
>WIRE 464 -368 32 -368
>WIRE 144 -304 80 -304
>WIRE 80 -256 80 -304
>WIRE 144 -240 144 -304
>WIRE 160 -240 144 -240
>WIRE 416 -240 416 -256
>WIRE 416 -240 384 -240
>WIRE -160 -176 -160 -400
>WIRE 0 -176 0 -608
>WIRE 0 -176 -160 -176
>WIRE 160 -176 0 -176
>WIRE 464 -176 464 -368
>WIRE 464 -176 384 -176
>WIRE -592 -144 -592 -192
>WIRE -544 -144 -592 -144
>WIRE -432 -144 -464 -144
>WIRE -352 -144 -352 -192
>WIRE -352 -144 -432 -144
>WIRE -352 -112 -352 -144
>WIRE 160 -112 96 -112
>WIRE 592 -112 592 -608
>WIRE 592 -112 384 -112
>WIRE -592 -96 -592 -144
>WIRE -432 -96 -432 -144
>WIRE 32 -96 32 -368
>WIRE 32 -96 -160 -96
>WIRE 160 -48 144 -48
>WIRE 448 -48 384 -48
>WIRE -592 16 -592 -16
>WIRE -432 16 -432 -16
>WIRE -352 16 -352 -48
>WIRE 448 16 448 -48
>WIRE -160 32 -160 -16
>WIRE 144 32 144 -48
>WIRE 144 32 -160 32
```

```
>WIRE 144 80 144 32
>WIRE 208 80 144 80
>WIRE 448 128 448 80
>WIRE 96 160 96 -112
>WIRE 96 240 -64 240
>WIRE -64 256 -64 240
>WIRE 96 288 96 240
>WIRE -64 336 -224 336
>WIRE -224 352 -224 336
>WIRE -64 384 -64 336
>WIRE -224 432 -384 432
>WIRE -224 480 -224 432
>FLAG -592 16 0
>FLAG 80 -256 0
>FLAG -592 -192 +5V
>FLAG 416 -256 +5V
>FLAG -352 16 0
>FLAG -432 16 0
>FLAG -352 -192 +2.5V
>FLAG 448 128 0
>FLAG -80 -496 0
>FLAG 208 80 +5V
>FLAG -64 448 0
>FLAG 96 352 0
>FLAG -224 544 0
>SYMBOL voltage -592 -112 R0
>WINDOW 123 0 0 Left 0
>WINDOW 39 0 0 Left 0
>WINDOW 0 -66 54 Left 0
>WINDOW 3 47 51 Left 0
>SYMATTR InstName V1
>SYMATTR Value 5
>SYMBOL res -560 -128 R270
>WINDOW 0 32 56 VTop 0
>WINDOW 3 0 56 VBottom 0
>SYMATTR InstName R6
>SYMATTR Value 1k
>SYMBOL res -448 -112 R0
>SYMATTR InstName R7
>SYMATTR Value 1k
>SYMBOL polcap -368 -112 R0
>SYMATTR InstName C3
>SYMATTR Value 10�
>SYMBOL Misc\\NE555 272 -144 R0
>SYMATTR InstName U1
>SYMBOL cap 432 16 R0
>SYMATTR InstName C1
>SYMATTR Value 10nF
>SYMBOL res -176 -192 R0
>SYMATTR InstName R2
>SYMATTR Value 33500
>SYMBOL res -176 -112 R0
>SYMATTR InstName R1
```

```
>SYMATTR Value 1000
>SYMBOL cap -176 -464 R0
>SYMATTR InstName C2
>SYMATTR Value .01�F
>SYMBOL cap -80 384 R0
>SYMATTR InstName C4
>SYMATTR Value .08�F
>SYMBOL res -80 240 R0
>SYMATTR InstName R3
>SYMATTR Value 1000
>SYMBOL cap 80 288 R0
>SYMATTR InstName C10
>SYMATTR Value .08�F
>SYMBOL res 80 144 R0
>SYMATTR InstName R8
>SYMATTR Value 1000
>SYMBOL cap -240 480 R0
>SYMATTR InstName C11
>SYMATTR Value .08�F
>SYMBOL res -240 336 R0
>SYMATTR InstName R12
>SYMATTR Value 1000
>TEXT -648 -472 Left 0 !.tran 0 5ms 0 1u
>TEXT -648 -432 Left 0 !.ic V(in1)=2.7
>TEXT -648 -512 Left 0 ;555 Radio Modem
```

Your RC values could be optimized. Try using successively bigger resistors and correspondingly smaller caps in successive stages. As is, each filter stage heavily loads the previous one.

These RCs each have an unloaded 3 dB point of about 2 KHz, so three in a row will lose about 9 dB. Making the taus a little shorter will increase output at the expense of distortion.

I'd expect a 3-pole LC filter to be a lot better.

John

From -5926978815135783 80
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!feeder.erje.net!news2.arglkargh.de!news.musoftware.de!wum.musoftware.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: "Phil Allison" <phil_a@tpg.com.au>

Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Thu, 25 Mar 2010 10:07:45 +1100
Lines: 45
Message-ID: <80vka6Fd3aU1@mid.individual.net>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
<ba2cf04f-f463-4d68-9cd9-3710c10b607b@z3g2000yqz.googlegroups.com>
<80t32uFdb7U1@mid.individual.net> <f6415b5d-e153-4456-ac4d-2d12d771dda8@k17g2000yqb.googlegroups.com>
X-Trace: individual.net f/kCe3V8yK08WwpD/2ymegpvpgbFs+zYklbVcOf1LKityrdU9u
Cancel-Lock: sha1:DlYtpZfbiYx9xOuveFGKb4s0jlU=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Xref: g2news1.google.com sci.electronics.design:151345
rec.radio.amateur.homebrew:3241

<dcaster@krl.org>
"Phil Allison"

> <dcas...@krl.org>
>
> Function generator. Integrate square wave to get triangle wave. Shape
> triangle wave to sine wave using a couple of diodes. See
>
> http://kitsrus.com/projects/k23.pdf
>
> ** Contrary to the OP's wishes, that POS uses op-amps.
>
> Have you seen the ugly " sine" wave it produces ??
>
> The diodes will rectify the RF energy.
>
> Not even a starter.
>

Contrary to what you think, the OP seems like he would be happy with a sine wave with only 1% distortion.

** Fraid that POS has a lot more than 1% THD.

The diodes will rectify RF but at
the output the signal level should be several orders of magnitude
higher than the RF.

** The OP wants to link his device to a transmitter.

The amount of RF energy is serious.

Did you read his post at all ??

So would not expect that to be a problem.

** Yawnnnnnnnnnnnnnnnn....

.... Phil

```
From -7167650095117407661
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g10g2000yqh.googlegroups.com!not-for-
mail
From: "dave.harper" <dave.harper@gmail.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Wed, 24 Mar 2010 19:37:58 -0700 (PDT)
Organization: http://groups.google.com
Lines: 51
Message-ID: <dc21c101-9fae-4a02-9289-4b1a35c563c0@g10g2000yqh.googlegroups.com>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
     <l77iq59ter9klfn4lc7a8j6hh9s5hld9np@4ax.com> <26bdccf8-6af8-47bc-92d6-
d1c78635565a@x12g2000yqx.googlegroups.com>
     <2b6f7a7b-b2e8-4f25-b9a7-84d9e67290be@g28g2000yqh.googlegroups.com>
NNTP-Posting-Host: 69.73.38.211
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269484678 13399 127.0.0.1 (25 Mar 2010 02:37:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 25 Mar 2010 02:37:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g10g2000yqh.googlegroups.com; posting-host=69.73.38.211;
     posting-account=rHEQaggAAAAFTscVchKefpnjROFHTWH8
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
     AppleWebKit/532.5 (KHTML, like Gecko) Chrome/4.1.249.1036
     Safari/532.5,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:166105
rec.radio.amateur.homebrew:3539
```

On Mar 24, 3:56=A0pm, j...@jjdesigns.fsnet.co.uk wrote:

> On 24 Mar, 18:22, "dave.harper" <dave.har...@gmail.com> wrote:
>

```
>
>
>
>
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>
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> > > On Tue, 23 Mar 2010 12:39:59 -0700 (PDT), "dave.harper"
>
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> > > DC maybe.
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>
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>
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> > suggestions! =A0Here's the schematic in LTSpice (comments appreciated):
>
> An inductor really does make a big difference for these kind of jobs
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> I've tacked on an LC filter to your drawing.
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> and a Zero notch at 6kHz. Components rounded to preferred values)
> [replacement for LTlist...]

That is a nicer output, but that also requires a 15mH coil.  Wouldn't
that be a little big?  This will be going into a small payload
container with 3" diameter.



From -2518625404234088167
X-Google-Thread: fc2a5,4cf68a685e8e067a,start
X-Google-NewGroupId: yes
```

```
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!h4g2000pre.googlegroups.com!not-for-
mail
From: shobana selve <shobanatnj@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: WIN FOR EVER
Date: Thu, 25 Mar 2010 03:42:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 11
Message-ID: <034665ac-d73b-40d2-b279-18c2f7173c43@h4g2000pre.googlegroups.com>
NNTP-Posting-Host: 202.89.72.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1269513748 14133 127.0.0.1 (25 Mar 2010 10:42:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 25 Mar 2010 10:42:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h4g2000pre.googlegroups.com; posting-host=202.89.72.5;
     posting-account=lM8u2woAAADo76gFVepGvYfOy1oxGEFh
User-Agent: G2/1.0
X-HTTP-Via: 1.1 lisp:8080 (squid/2.5.STABLE4)
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
     AppleWebKit/530.7 (KHTML, like Gecko) Chrome/2.0.176.0 Safari/
530.7,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3243

http://cancerresearch-vijay.blogspot.com/
http://nutritionhealthnoni.blogspot.com/
http://vijay-forestenjoy.blogspot.com/
http://information-041.blogspot.com/
http://onlineworktamilnadu.blogspot.com/
http://vijay-onlinejob.blogspot.com/
http://online-trading111.blogspot.com/
http://hot-problem.blogspot.com/
http://vijay681.blogspot.com/
http://nutuernoni.blogspot.com/
http://nonisearch2008.blogspot.com


From -6149133166094682874
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 25 Mar 2010 06:13:18 -0500
Date: Thu, 25 Mar 2010 21:13:17 +1000
From: David Eather <eather@tpg.com.au>
```

```
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.1.8) Gecko/
20100227 Thunderbird/3.0.3
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
     <l77iq59ter9klfn4lc7a8j6hh9s5hld9np@4ax.com> <26bdccf8-6af8-47bc-92d6-
d1c78635565a@x12g2000yqx.googlegroups.com>     <2b6f7a7b-b2e8-4f25-
b9a7-84d9e67290be@g28g2000yqh.googlegroups.com>
<dc21c101-9fae-4a02-9289-4b1a35c563c0@g10g2000yqh.googlegroups.com>
In-Reply-To: <dc21c101-9fae-4a02-9289-4b1a35c563c0@g10g2000yqh.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <w7mdnTCkl-7S2DbWnZ2dnUVZ_jWknZ2d@supernews.com>
Lines: 50
X-Trace: sv3-rNyk9eIv9CJysUuthemWf1Ddg4hKkX+uyk+BYqvWbyHc1QfFfpT2jSKaPm11NX/
2cOslT2hglHitiRe!
fFjkH6kDMVETqi8WKFAaCv6KS0oybIpQmPLjlaRyapnBeJOSlVYihJjCD0qBtTxaj0Up2+W1tQC/!ep/
kEVsnos8=
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com sci.electronics.design:151446
rec.radio.amateur.homebrew:3244

On 25/03/2010 12:37 PM, dave.harper wrote:
> On Mar 24, 3:56 pm, j...@jjdesigns.fsnet.co.uk wrote:
>> On 24 Mar, 18:22, "dave.harper"<dave.har...@gmail.com>  wrote:
>>
>>
>>
>>
>>
>>> On Mar 23, 3:00 pm, John Larkin
>>
>>> <jjlar...@highNOTlandTHIStechnologyPART.com>  wrote:
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>>>> A lowpass filter is appropriate. You're trying to kill the higher
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```

```
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>> and a Zero notch at 6kHz. Components rounded to preferred values)
>> [replacement for LTlist...]
>
> That is a nicer output, but that also requires a 15mH coil.  Wouldn't
> that be a little big?  This will be going into a small payload
> container with 3" diameter.
>
  Amateur rocket?


From -6021700256776644480
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
188.40.43.213.MISMATCH!feeder.eternal-september.org!eternal-september.org!.POSTED!
not-for-mail
From: "Bob Eld" <nsmontassoc@yahoo.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Thu, 25 Mar 2010 06:16:36 -0800
Organization: A noiseless patient Spider
Lines: 62
Message-ID: <hofr76$18f$1@news.eternal-september.org>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
<hod2hb$rnu$1@news.eternal-september.org> <80up7kF580U1@mid.individual.net>
Injection-Date: Thu, 25 Mar 2010 14:16:06 +0000 (UTC)
Injection-Info: feeder.eternal-september.org;
     logging-data="1295"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18D4rToNjbXocRhuBO9pxUC"
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
X-Newsreader: Microsoft Outlook Express 6.00.2600.0000
Cancel-Lock: sha1:XniVERso1VsbFiN2QfNDVYsCjDU=
X-Priority: 3
X-MSMail-Priority: Normal
```

Xref: g2news1.google.com sci.electronics.design:151465
rec.radio.amateur.homebrew:3245

"Don Lancaster" <don@tinaja.com> wrote in message
news:80up7kF580U1@mid.individual.net...
> Bob Eld wrote:
> > "dave.harper" <dave.harper@gmail.com> wrote in message
> >
news:62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com...
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> >> between ~1.9kHz and 2.1kHz). It can have some distortion, but I'm
> >> trying to eliminate the sharp leading and trailing edge. One option
> >> I'm pursuing is a bandpass filter (2 caps and 2 resistors), which
> >> looks to give a reasonable output, but still not quite as smooth as
> >> I'd like. I've also considered using a counter feeding a bank of
> >> resistors, but finding a method for it to start counting up with it
> >> hits 0 and down when it hits the high value might be more difficult.
> >>
> >> Originally, I had used a wein-bridge oscillator with op-amps to make
> >> the sine wave, but due to the environment, EMI was a problem and it
> >> damped out the oscillations (even with ferrite beads and modest
> >> shielding). So I'd like to avoid using op-amps (since they are
> >> apparently sensitive to EMI) if possible.
> >>
> >> Any suggestions?
> >>
> >> Thanks in advance!
> >> Dave
> >
> > I would make a five pole elliptic low pass active filter breaking at
about 3
> > kHz with a deep 80 dB notch at the third harmonic of 6 kHz. This is a
dual
> > op amp (2 section) solution and uses a small number of resistors and
caps.
> > You should be able to attenuate all of the harmonics at least 80 dB
leaving
> > a pretty good sine wave.
>
> Parallax invented the ultimate in mind-numbingly simple sinewave
> generators many years ago. SIX BYTES !!! of working code on a PIC!!!!
>
> Start with page 85.3 of http://www.tinaja.com/glib/hackar4.pdf
> --
> Many thanks,
>
> Don Lancaster   voice phone: (928)428-4073
> Synergetics   3860 West First Street   Box 809 Thatcher, AZ 85552
> rss: http://www.tinaja.com/whtnu.xml   email: don@tinaja.com
>
> Please visit my GURU's LAIR web site at http://www.tinaja.com

Thanks Don. Truly weird! I plan to code it up and play around with this when
time permits. So, the original poster could put this into a single chip PIC
and forget about his square wave source. He'd still need to run a D toA to
get an analog output, would he not? Within that algorithm he could also pull
out a square wave too if needed. Frequency could be anything within the
speed of the processor with appropriate, even externally controlled internal
delays and of course be crystal controlled and very stable. Hmmm. I already
have a use for this. Thanks again.
Bob

```
From 8168215519454407325
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!z4g2000yqa.googlegroups.com!not-for-
mail
From: john@jjdesigns.fsnet.co.uk
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Thu, 25 Mar 2010 08:57:17 -0700 (PDT)
Organization: http://groups.google.com
Lines: 66
Message-ID: <3051a70f-0f51-4470-92dc-bb654359bd79@z4g2000yqa.googlegroups.com>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
     <l77iq59ter9klfn4lc7a8j6hh9s5hld9np@4ax.com> <26bdccf8-6af8-47bc-92d6-
d1c78635565a@x12g2000yqx.googlegroups.com>
     <2b6f7a7b-b2e8-4f25-b9a7-84d9e67290be@g28g2000yqh.googlegroups.com>
     <dc21c101-9fae-4a02-9289-4b1a35c563c0@g10g2000yqh.googlegroups.com>
NNTP-Posting-Host: 78.148.126.35
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269532637 8161 127.0.0.1 (25 Mar 2010 15:57:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 25 Mar 2010 15:57:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z4g2000yqa.googlegroups.com; posting-host=78.148.126.35;
     posting-account=EWYHzgkAAACMmOhbuSIbFFhRhM_IrXtT
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.80 (Windows NT 5.1; U; en) Presto/2.2.15
     Version/10.10,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:166195
rec.radio.amateur.homebrew:3543
```

On 25 Mar, 02:37, "dave.harper" <dave.har...@gmail.com> wrote:
> On Mar 24, 3:56=A0pm, j...@jjdesigns.fsnet.co.uk wrote:

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>
>
>
>
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> > On 24 Mar, 18:22, "dave.harper" <dave.har...@gmail.com> wrote:
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> > > > better. An LC filter isn't unreasonable at 2 KHz.
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> container with 3" diameter.

They're about the size of 0.4W resistors but if you're stuck for space
then it's not an option.
I had in mind this ... 'Epcos' part#  B82144A2156J000
A pic of  a similar item ...
http://uk.farnell.com/epcos/b78108s1475j/inductor-axial-4700uh/dp/608646?Nt=
t=3D608646
Or a different body style but more expensive ...
http://uk.farnell.com/murata-power-solutions/22r156c/inductor-15mh/dp/10770=
44?Ntt=3D1077044



From -5487692602786130375
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!g19g2000yqe.googlegroups.com!not-for-
mail
From: "dave.harper" <dave.harper@gmail.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Thu, 25 Mar 2010 13:26:27 -0700 (PDT)
Organization: http://groups.google.com
Lines: 71
Message-ID: <26293342-8ca2-424d-8c92-647c31627c2c@g19g2000yqe.googlegroups.com>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
     <l77iq59ter9klfn4lc7a8j6hh9s5hld9np@4ax.com> <26bdccf8-6af8-47bc-92d6-
d1c78635565a@x12g2000yqx.googlegroups.com>
     <2b6f7a7b-b2e8-4f25-b9a7-84d9e67290be@g28g2000yqh.googlegroups.com>
     <dc21c101-9fae-4a02-9289-4b1a35c563c0@g10g2000yqh.googlegroups.com>
     <3051a70f-0f51-4470-92dc-bb654359bd79@z4g2000yqa.googlegroups.com>
NNTP-Posting-Host: 128.158.1.166
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269548787 31111 127.0.0.1 (25 Mar 2010 20:26:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 25 Mar 2010 20:26:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g19g2000yqe.googlegroups.com; posting-host=128.158.1.166;
     posting-account=rHEQaggAAAAFTscVchKefpnjROFHTWH8
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.11)
     Gecko/2009060215 Firefox/3.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com sci.electronics.design:151514
rec.radio.amateur.homebrew:3247

On Mar 25, 10:57=A0am, j...@jjdesigns.fsnet.co.uk wrote:
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```

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> I had in mind this ... 'Epcos' part# =A0B82144A2156J000
> A pic of =A0a similar item ...http://uk.farnell.com/epcos/b78108s1475j/in=
ductor-axial-4700uh/dp/608...
> Or a different body style but more expensive ...http://uk.farnell.com/mur=
ata-power-solutions/22r156c/inductor-15mh/dp...

Hm, what about this one?  Looks promising:

http://search.digikey.com/scripts/DkSearch/dksus.dll?Detail&name=3D811-2058=
-ND



From 1168069485295l9410
X-Google-Thread: 241b302a50,77d27bccf85d4dc5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!r1g2000yqj.googlegroups.com!not-for-
mail
From: john@jjdesigns.fsnet.co.uk
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Thu, 25 Mar 2010 14:02:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 83
Message-ID: <dbc81f88-ac1b-4ad3-8baa-c4a17a9c5005@r1g2000yqj.googlegroups.com>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
     <l77iq59ter9klfn4lc7a8j6hh9s5hld9np@4ax.com> <26bdccf8-6af8-47bc-92d6-
d1c78635565a@x12g2000yqx.googlegroups.com>
     <2b6f7a7b-b2e8-4f25-b9a7-84d9e67290be@g28g2000yqh.googlegroups.com>
     <dc21c101-9fae-4a02-9289-4b1a35c563c0@g10g2000yqh.googlegroups.com>
     <3051a70f-0f51-4470-92dc-bb654359bd79@z4g2000yqa.googlegroups.com>
     <26293342-8ca2-424d-8c92-647c31627c2c@g19g2000yqe.googlegroups.com>
NNTP-Posting-Host: 78.146.143.199
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269550955 29841 127.0.0.1 (25 Mar 2010 21:02:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 25 Mar 2010 21:02:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r1g2000yqj.googlegroups.com; posting-host=78.146.143.199;
     posting-account=EWYHzgkAAACMmOhbuSIbFFhRhM_IrXtT
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.80 (Windows NT 5.1; U; en) Presto/2.2.15
     Version/10.10,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com sci.electronics.design:151520
```

```
rec.radio.amateur.homebrew:3248

On 25 Mar, 20:26, "dave.harper" <dave.har...@gmail.com> wrote:
> On Mar 25, 10:57=A0am, j...@jjdesigns.fsnet.co.uk wrote:
>
>
>
>
>
> > On 25 Mar, 02:37, "dave.harper" <dave.har...@gmail.com> wrote:
>
> > > On Mar 24, 3:56=A0pm, j...@jjdesigns.fsnet.co.uk wrote:
>
> > > > On 24 Mar, 18:22, "dave.harper" <dave.har...@gmail.com> wrote:
>
> > > > > On Mar 23, 3:00=A0pm, John Larkin
>
> > > > > <jjlar...@highNOTlandTHIStechnologyPART.com> wrote:
> > > > > > On Tue, 23 Mar 2010 12:39:59 -0700 (PDT), "dave.harper"
>
> > > > > > <dave.har...@gmail.com> wrote:
> > > > > > >I'm trying to come up with a filter or converter that takes a =
square
> > > > > > >wave input and outputs something closer to a sign wave (varyin=
g
> > > > > > >between ~1.9kHz and 2.1kHz). =A0It can have some distortion, b=
ut I'm
> > > > > > >trying to eliminate the sharp leading and trailing edge. =A0On=
e option
> > > > > > >I'm pursuing is a bandpass filter (2 caps and 2 resistors), wh=
ich
> > > > > > >looks to give a reasonable output, but still not quite as smoo=
th as
> > > > > > >I'd like.
>
> > > > > > A lowpass filter is appropriate. You're trying to kill the high=
er
> > > > > > (odd) harmonics but there's no signal below the fundamental, ex=
cepting
> > > > > > DC maybe.
>
> > > > > > A dual-stage RC lowpass would be pretty good, if you set the -3=
 dB
> > > > > > point around 2 KHz. A higher-order filter, active or LC, would =
be even
> > > > > > better. An LC filter isn't unreasonable at 2 KHz.
>
> > > > > > John
>
> > > > > I modeled a few low pass filters, and think this is the best
> > > > > solution. =A0I have 3 RC low-pass filters and the output looks
> > > > > relatively sine-like. =A0Thanks to everyone that provided good
> > > > > suggestions! =A0Here's the schematic in LTSpice (comments appreci=
ated):
>
> > > > An inductor really does make a big difference for these kind of job=
s
> > > > and only costs pennies.
> > > > I've tacked on an LC filter to your drawing.
> > > > Output is =A05Vpkpk sine at very low distortion.
> > > > (filter is a 3rd order, Chebyshev, low pass, with 6db passband ripp=
le
> > > > and a Zero notch at 6kHz. Components rounded to preferred values)
> > > > [replacement for LTlist...]
>
> > > That is a nicer output, but that also requires a 15mH coil. =A0Wouldn=
't
> > > that be a little big? =A0This will be going into a small payload
> > > container with 3" diameter.
>
> > They're about the size of 0.4W resistors but if you're stuck for space
> > then it's not an option.
> > I had in mind this ... 'Epcos' part# =A0B82144A2156J000
> > A pic of =A0a similar item ...http://uk.farnell.com/epcos/b78108s1475j/=
inductor-axial-4700uh/dp/608...
> > Or a different body style but more expensive ...http://uk.farnell.com/m=
urata-power-solutions/22r156c/inductor-15mh/dp...
>
> Hm, what about this one? =A0Looks promising:
>
> http://search.digikey.com/scripts/DkSearch/dksus.dll?Detail&name=3D811-..=
.

Yep. Fine!.
(DigiKey  811-1302-ND for the 15mH)


From 4103115883150544915
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 25 Mar 2010 18:36:53 -0500
From: John Fields <jfields@austininstruments.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Thu, 25 Mar 2010 18:36:47 -0500
Organization: Austin Instruments. Inc.
Message-ID: <d6snq5td3d27she5kstfgd710e66mm7lh9@4ax.com>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
```

```
<l77iq59ter9klfn4lc7a8j6hh9s5hld9np@4ax.com> <26bdccf8-6af8-47bc-92d6-
d1c78635565a@x12g2000yqx.googlegroups.com>  <2b6f7a7b-b2e8-4f25-
b9a7-84d9e67290be@g28g2000yqh.googlegroups.com>
<dc21c101-9fae-4a02-9289-4b1a35c563c0@g10g2000yqh.googlegroups.com>
<3051a70f-0f51-4470-92dc-bb654359bd79@z4g2000yqa.googlegroups.com>
<26293342-8ca2-424d-8c92-647c31627c2c@g19g2000yqe.googlegroups.com>
X-Newsreader: Forte Agent 5.00/32.1171 trialware
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 115
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-gt9sZsSQs/nSp/KOye+I/
zSsAYpbu9r9oNEhOHNnGLVqZUGIv34xFitPnj63B2iBmAbCnoxbQrqZ6Bs!kLuQsUaMXW4Y2EgNm/
iqeK3SVlGbcFa9C5sLIkUOq8xmQqNcU8MEz5Cb9tM8GV45LEOFYO0=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com sci.electronics.design:166264
rec.radio.amateur.homebrew:3546

On Thu, 25 Mar 2010 13:26:27 -0700 (PDT), "dave.harper"
<dave.harper@gmail.com> wrote:

>On Mar 25, 10:57�am, j...@jjdesigns.fsnet.co.uk wrote:
>> On 25 Mar, 02:37, "dave.harper" <dave.har...@gmail.com> wrote:
>>
>>
>>
>> > On Mar 24, 3:56�pm, j...@jjdesigns.fsnet.co.uk wrote:
>>
>> > > On 24 Mar, 18:22, "dave.harper" <dave.har...@gmail.com> wrote:
>>
>> > > > On Mar 23, 3:00�pm, John Larkin
>>
>> > > > <jjlar...@highNOTlandTHIStechnologyPART.com> wrote:
>> > > > > On Tue, 23 Mar 2010 12:39:59 -0700 (PDT), "dave.harper"
>>
>> > > > > <dave.har...@gmail.com> wrote:
>> > > > > >I'm trying to come up with a filter or converter that takes a square
>> > > > > >wave input and outputs something closer to a sign wave (varying
>> > > > > >between ~1.9kHz and 2.1kHz). �It can have some distortion, but I'm
>> > > > > >trying to eliminate the sharp leading and trailing edge. �One option
>> > > > > >I'm pursuing is a bandpass filter (2 caps and 2 resistors), which
>> > > > > >looks to give a reasonable output, but still not quite as smooth as
>> > > > > >I'd like.
>>
>> > > > > A lowpass filter is appropriate. You're trying to kill the higher
>> > > > > (odd) harmonics but there's no signal below the fundamental, excepting
>> > > > > DC maybe.
```

>>
>> > > > > A dual-stage RC lowpass would be pretty good, if you set the -3 dB
>> > > > > point around 2 KHz. A higher-order filter, active or LC, would be even
>> > > > > better. An LC filter isn't unreasonable at 2 KHz.
>>
>> > > > > John
>>
>> > > > I modeled a few low pass filters, and think this is the best
>> > > > solution. �I have 3 RC low-pass filters and the output looks
>> > > > relatively sine-like. �Thanks to everyone that provided good
>> > > > suggestions! �Here's the schematic in LTSpice (comments appreciated):
>>
>> > > An inductor really does make a big difference for these kind of jobs
>> > > and only costs pennies.
>> > > I've tacked on an LC filter to your drawing.
>> > > Output is �5Vpkpk sine at very low distortion.
>> > > (filter is a 3rd order, Chebyshev, low pass, with 6db passband ripple
>> > > and a Zero notch at 6kHz. Components rounded to preferred values)
>> > > [replacement for LTlist...]
>>
>> > That is a nicer output, but that also requires a 15mH coil. �Wouldn't
>> > that be a little big? �This will be going into a small payload
>> > container with 3" diameter.
>>
>> They're about the size of 0.4W resistors but if you're stuck for space
>> then it's not an option.
>> I had in mind this ... 'Epcos' part# �B82144A2156J000
>> A pic of �a similar item ...http://uk.farnell.com/epcos/b78108s1475j/inductor-axial-4700uh/dp/608...
>> Or a different body style but more expensive ...http://uk.farnell.com/murata-power-solutions/22r156c/inductor-15mh/dp...
>
>Hm, what about this one? Looks promising:
>
>http://search.digikey.com/scripts/DkSearch/dksus.dll?Detail&name=811-2058-ND

How about this:

```
Version 4
SHEET 1 880 680
WIRE 208 0 16 0
WIRE 208 16 208 0
WIRE 16 32 16 0
WIRE 16 128 16 112
WIRE 208 144 208 96
WIRE 336 144 208 144
WIRE 208 160 208 144
WIRE 16 256 16 208
WIRE 208 256 208 224
WIRE 208 256 16 256
WIRE 16 352 16 256
FLAG 16 352 0
```

```
SYMBOL ind 192 0 R0
SYMATTR InstName L1
SYMATTR Value .00932
SYMATTR SpiceLine Rser=110
SYMBOL cap 192 160 R0
WINDOW 0 42 38 Left 0
WINDOW 3 26 65 Left 0
SYMATTR InstName C1
SYMATTR Value .68e-6
SYMBOL voltage 16 112 R0
WINDOW 3 24 104 Invisible 0
WINDOW 39 0 0 Left 0
SYMATTR Value PULSE(0 5 0 1e-7 1e-7 250e-6 500e-6)
SYMATTR InstName V1
SYMATTR Value2 AC 1
SYMBOL res 0 16 R0
SYMATTR InstName R1
SYMATTR Value 10
TEXT 40 288 Left 0 !.tran .1
TEXT 40 320 Left 0 !;ac oct 256 10 10000
```

The coil is a Caddell-Burns 6740-61 (6.8 - 12mH) variable inductor:

http://www.caddell-burns.com/PDF/A1042.pdf

You can use it to tune to 2kHz, dead nuts, but that tunability
comes at a price:

http://www.caddell-burns.com/priceList/Price_List_Pg_2.pdf

and the cap is any garden variety 0.68�F polyester cap.

JF

```
From -1259885992516764542
X-Google-Thread: fc2a5,89cb36f562be35b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y17g2000yqd.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Tube socket holes
Date: Fri, 26 Mar 2010 03:36:21 -0700 (PDT)
Organization: http://groups.google.com
Lines: 5
Message-ID: <fe99d85a-7a73-4b7f-b8cd-41476fbef43f@y17g2000yqd.googlegroups.com>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1269599781 750 127.0.0.1 (26 Mar 2010 10:36:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Mar 2010 10:36:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y17g2000yqd.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.2)
     Gecko/20100316 Firefox/3.6.2,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3547
```

I was going to start a valve project and wanted to purchase some hole saws for cutting out the socket holes. What sizes will I need for 7 9 and octal sockets?

Jimmie

```
From 7955624863622802544
X-Google-Thread: 241b302a50,89cb36f562be35b,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q23g2000yqd.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Tube socket holes
Date: Fri, 26 Mar 2010 03:36:29 -0700 (PDT)
Organization: http://groups.google.com
Lines: 5
Message-ID: <5430a62e-459a-4f65-ae0e-92a1b69fb279@q23g2000yqd.googlegroups.com>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1269599789 22479 127.0.0.1 (26 Mar 2010 10:36:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Mar 2010 10:36:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q23g2000yqd.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.2)
     Gecko/20100316 Firefox/3.6.2,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3548
```

I was going to start a valve project and wanted to purchase some hole saws for cutting out the socket holes. What sizes will I need for 7 9 and octal sockets?

Jimmie

```
From -3727962853131592678
X-Google-Thread: fc2a5,89cb36f562be35b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z35g2000yqd.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Tube socket holes
Date: Fri, 26 Mar 2010 03:36:34 -0700 (PDT)
Organization: http://groups.google.com
Lines: 5
Message-ID: <cf4367ec-510f-40b1-9f55-54bb59d53363@z35g2000yqd.googlegroups.com>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1269599794 778 127.0.0.1 (26 Mar 2010 10:36:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Mar 2010 10:36:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z35g2000yqd.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.2)
     Gecko/20100316 Firefox/3.6.2,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3252
```

I was going to start a valve project and wanted to purchase some hole
saws for cutting out the socket holes. What sizes will I need for 7 9
and octal sockets?

Jimmie

```
From 8361829722224776676
X-Google-Thread: fc2a5,89cb36f562be35b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx01.iad01.newshosting.com!
newshosting.com!novia!news-out.readnews.com!news-xxxfer.readnews.com!
news.misty.com!not-for-mail
From: "Geoffrey S. Mendelson" <gsm@cable.mendelson.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube socket holes
Date: Fri, 26 Mar 2010 10:59:04 +0000 (UTC)
Organization: MGT Consulting
Lines: 33
Message-ID: <slrnhqp4q7.sgs.gsm@cable.mendelson.com>
References: <cf4367ec-510f-40b1-9f55-54bb59d53363@z35g2000yqd.googlegroups.com>
```

Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 217.132.16.193
X-Trace: news.inside.misty.com 1269601144 1763 217.132.16.193 (26 Mar 2010 10:59:04 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Fri, 26 Mar 2010 10:59:04 +0000 (UTC)
User-Agent: slrn/pre1.0.0-11 (Linux)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3253

JIMMIE wrote:
> I was going to start a valve project and wanted to purchase some hole
> saws for cutting out the socket holes. What sizes will I need for 7 9
> and octal sockets?

I don't remember the sizes, but holes were never sawed for tube sockets. Instead of using saws, which are very difficult to control and make a mess of everything, hole punches were used.

The standard brand (at least in the US) was a company called Greenlee, which a web search says they are still in business. If you do a web search on "greenlee punch octal socket" or replace octal with tube, you will find several charts of which sizes to buy and people selling them.

Greenlee punchs are simple to use, you make center hole for the drive bolt. Being much smaller than the hole you need to cut, it's easier to make an accurate hole placement. :-)

Then you assemble the punch around the hole and tighten the drive bolt. It cuts through the chassis accurately and then you take it out, open it and remove the "plug".

BTW, don't repeat sending your messages. The chance of you ever seeing what you post, or at least quickly is very small. This is USENET, not a web forum (no matter what Google wants you to think).

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
New word I coined 12/13/09, "Sub-Wikipedia" adj, describing knowledge or understanding, as in he has a sub-wikipedia understanding of the situation. i.e possessing less facts or information than can be found in the Wikipedia.

From 1803552468172571608
X-Google-Thread: fc2a5,89cb36f562be35b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!newsp.newsguy.com!news4
From: Bill M <radioexray@geeeemail.com>

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube socket holes
Date: Fri, 26 Mar 2010 06:08:46 -0500
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 20
Message-ID: <hoi4kv021lr@news4.newsguy.com>
References: <cf4367ec-510f-40b1-9f55-54bb59d53363@z35g2000yqd.googlegroups.com>
<slrnhqp4q7.sgs.gsm@cable.mendelson.com>
NNTP-Posting-Host: p27dc5a549566a28bcdccdeba4b0e2832224f402771776540.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
In-Reply-To: <slrnhqp4q7.sgs.gsm@cable.mendelson.com>
X-Antivirus: avast! (VPS 100325-1, 03/25/2010), Outbound message
X-Antivirus-Status: Clean
Xref: g2news2.google.com rec.radio.amateur.homebrew:3551

Geoffrey S. Mendelson wrote:
> JIMMIE wrote:
>> I was going to start a valve project and wanted to purchase some hole
>> saws for cutting out the socket holes. What sizes will I need for 7 9
>> and octal sockets?
>
> I don't remember the sizes, but holes were never sawed for tube sockets.
> Instead of using saws, which are very difficult to control and make a mess
> of everything, hole punches were used.

Punches are certainly the way to go if you have some or can borrow some.
Otherwise its kind of expensive to have to go out and buy some for a
one time use.

An alternative is the 'unibit' type of drill bits. They make them large
enough for 7/9 pin sockets. See Harbour Freight.

GL with your project.

-Bill

From 8187236615191641189
X-Google-Thread: 241b302a50,77d27bccf85d4dc5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!goblin3!gin-ad1-unet1.teleglobe.net!
goblin1!goblin2!goblin.stu.neva.ru!feeder2.cambriumusenet.nl!feed.tweaknews.nl!
209.197.12.246.MISMATCH!nx02.iad01.newshosting.com!newshosting.com!
216.196.98.152.MISMATCH!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 26 Mar 2010 06:11:42 -0500
From: triode <triode.5f24be1@radiobanter.com>

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Fri, 26 Mar 2010 10:00:31 +0000
Message-ID: <triode.5f24be1@radiobanter.com>
Organization: RadioBanter.com
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
Lines: 31
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-uZpskUk1E9HBNS4SXLwCSdnYeuZiadZ21vRBbs60DklrC8KRjNgAbz7gtoirqf1TqkPZpvW3dM4hZg7!XleWvmaDzdopJnK5XtT4RxMFIskz+fHRYoOaixNVXQmtcbp7R94j0waKnTxn4X4qtFCs7lcgZQps!AqQ=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Lines: 1
Xref: g2news2.google.com rec.radio.amateur.homebrew:3552

dave.harper;702616 Wrote:

> I'm trying to come up with a filter or converter that takes a square
> wave input and outputs something closer to a sign wave (varying
> between ~1.9kHz and 2.1kHz). It can have some distortion, but I'm
> trying to eliminate the sharp leading and trailing edge. One option
> I'm pursuing is a bandpass filter (2 caps and 2 resistors), which
> looks to give a reasonable output, but still not quite as smooth as
> I'd like. I've also considered using a counter feeding a bank of
> resistors, but finding a method for it to start counting up with it
> hits 0 and down when it hits the high value might be more difficult.
>
> Originally, I had used a wein-bridge oscillator with op-amps to make
> the sine wave, but due to the environment, EMI was a problem and it
> damped out the oscillations (even with ferrite beads and modest
> shielding). So I'd like to avoid using op-amps (since they are
> apparently sensitive to EMI) if possible.
>
> Any suggestions?
>
> Thanks in advance!
> Dave

Try a high value resistor, say 47k into a pair of reverse paralleled germanium diodes to earth. The square law "knee" will clip the signal into a psuedo sine, around 1 volt p to p. Simple, and it works at these low frequencies. Three components, give it a try. cheers

--
triode

From 4446837214969339477
X-Google-Thread: fc2a5,89cb36f562be35b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
feed.news.qwest.net!mpls-nntp-07.inet.qwest.net!news-out.octanews.net!
indigo.octanews.net!news-2.mpls.iphouse.net.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube socket holes
From: Bert Hyman <bert@iphouse.com>
References: <cf4367ec-510f-40b1-9f55-54bb59d53363@z35g2000yqd.googlegroups.com>
<slrnhqp4q7.sgs.gsm@cable.mendelson.com>
Organization: Not that you'd notice
Message-ID: <Xns9D474FC016A6VeebleFetzer@216.250.188.141>
User-Agent: Xnews/2006.08.24
Date: 26 Mar 2010 12:50:23 GMT
Lines: 18
NNTP-Posting-Date: 26 Mar 2010 07:50:23 CDT
NNTP-Posting-Host: a138067a.newsreader.iphouse.net
X-Trace: DXC=fF3Wf08?
R^l8FkVYW;TBSgVn\Tj8`^BbkeHS>e[L>83`gkj]dl`DD`n1UFgaF43:7lEF6l3X2<;Ve@4H_28o[Ba
X-Complaints-To: abuse@iphouse.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:3553

In news:slrnhqp4q7.sgs.gsm@cable.mendelson.com "Geoffrey S. Mendelson"
<gsm@cable.mendelson.com> wrote:

> I don't remember the sizes, but holes were never sawed for tube
> sockets. Instead of using saws, which are very difficult to control
> and make a mess of everything, hole punches were used.

Don't say never :-)

Greenlee chassis punches were much coveted when I was a kid. The
highschool radio club had a few (W3CDI, now apparently defunct), but
they were far too expensive for individuals to own.

I usually had to resort to drilling a hole with the largest bit I had
and then going the rest of the way with a rat-tail file.

--
Bert Hyman   W0RSB   St. Paul, MN bert@iphouse.com

From 9001076081990253615
X-Google-Thread: fc2a5,89cb36f562be35b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail

NNTP-Posting-Date: Fri, 26 Mar 2010 09:57:06 -0500
Date: Fri, 26 Mar 2010 14:57:04 +0000
From: highlandham <highlandham.nospam@rfburns.eu>
User-Agent: Thunderbird 2.0.0.23 (X11/20100301)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube socket holes
References: <cf4367ec-510f-40b1-9f55-54bb59d53363@z35g2000yqd.googlegroups.com>
<slrnhqp4q7.sgs.gsm@cable.mendelson.com>
<Xns9D474FC016A6VeebleFetzer@216.250.188.141>
In-Reply-To: <Xns9D474FC016A6VeebleFetzer@216.250.188.141>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <8LadnTb9Y7zfVjHWnZ2dnUVZ8tOdnZ2d@pipex.net>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.110.157.35
X-Trace: sv3-boI+EU4WN8tCe9W/
ii9dKjBVN9QT8SoZmAQ0hhOPOPhnCitWQjJ+m6kEPnH+WBsqhZBuJp/rSFWpn8T!
c1SncpAawqwpdthi1aIxZ3bakfxPOqnoQ7S/OTXQdXOsyYHbE3+UiPlWZTPzTOnGkdlNeoEvqVen!
aqmOCLnsil4yxbi+vk3KeBbqqw==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3554

Bert Hyman wrote:
> In news:slrnhqp4q7.sgs.gsm@cable.mendelson.com "Geoffrey S. Mendelson"
> <gsm@cable.mendelson.com> wrote:
>
>> I don't remember the sizes, but holes were never sawed for tube
>> sockets. Instead of using saws, which are very difficult to control
>> and make a mess of everything, hole punches were used.
>
> Don't say never :-)
>
> Greenlee chassis punches were much coveted when I was a kid. The
> highschool radio club had a few (W3CDI, now apparently defunct), but
> they were far too expensive for individuals to own.
>
> I usually had to resort to drilling a hole with the largest bit I had
> and then going the rest of the way with a rat-tail file.

=================================
For larger holes the RatShack nibbling tool is quite effective
,finishing the hole with a 'half round' file.

Frank   GM0CSZ / KN6WH

```
From 5276360716811714998
X-Google-Thread: fc2a5,89cb36f562be35b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news-out.octanews.net!indigo.octanews.net!
news-2.mpls.iphouse.net.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube socket holes
From: Bert Hyman <bert@iphouse.com>
References: <cf4367ec-510f-40b1-9f55-54bb59d53363@z35g2000yqd.googlegroups.com>
<slrnhqp4q7.sgs.gsm@cable.mendelson.com>
<Xns9D474FC016A6VeebleFetzer@216.250.188.141>
<8LadnTb9Y7zfVjHWnZ2dnUVZ8tOdnZ2d@pipex.net>
Organization: Not that you'd notice
Message-ID: <Xns9D47729A23355VeebleFetzer@216.250.188.141>
User-Agent: Xnews/2006.08.24
Date: 26 Mar 2010 16:15:57 GMT
Lines: 12
NNTP-Posting-Date: 26 Mar 2010 11:15:57 CDT
NNTP-Posting-Host: 1d1504f2.newsreader.iphouse.net
X-Trace:
DXC=4j8NnXeQd2ECg279Ob7@JDVn\Tj8`^BbKeHS>e[L>83@gkj]dl`DD`N1UFgaF43:7L`oTOF^SlXn@Y
;?g0`h[I7K
X-Complaints-To: abuse@iphouse.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:3555

In news:8LadnTb9Y7zfVjHWnZ2dnUVZ8tOdnZ2d@pipex.net highlandham
<highlandham.nospam@rfburns.eu> wrote:

> For larger holes the RatShack nibbling tool is quite effective
> ,finishing the hole with a 'half round' file.

My Adel Nibbler has a peg of honor on the wall above the workbench.

http://www.adelnibbler.com/

--
Bert Hyman    W0RSB    St. Paul, MN  bert@iphouse.com


From 425142131010491335
X-Google-Thread: fc2a5,89cb36f562be35b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!b33g2000yqc.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube socket holes
Date: Fri, 26 Mar 2010 11:17:11 -0700 (PDT)
```

```
Organization: http://groups.google.com
Lines: 12
Message-ID: <b4f6929f-753f-41b8-be9d-825dc2801f8b@b33g2000yqc.googlegroups.com>
References: <fe99d85a-7a73-4b7f-b8cd-41476fbef43f@y17g2000yqd.googlegroups.com>
NNTP-Posting-Host: 155.178.4.19
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269627432 15984 127.0.0.1 (26 Mar 2010 18:17:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Mar 2010 18:17:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b33g2000yqc.googlegroups.com; posting-host=155.178.4.19;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.2)
     Gecko/20100316 Firefox/3.6.2,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3556

On Mar 26, 6:36=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> I was going to start a valve project and wanted to purchase some hole
> saws for cutting out the socket holes. What sizes will I need for 7 9
> and octal sockets?
>
> Jimmie

7 pin 5/8 inch
8 pin 1-1/16  inch
9 pin 7/8 inch

Jimmie


From 2127745193931473723
X-Google-Thread: fc2a5,89cb36f562be35b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!g10g2000yqh.googlegroups.com!not-for-
mail
From: Dave Smirkenberg <smirk50@rocketmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube socket holes
Date: Fri, 26 Mar 2010 11:50:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 9
Message-ID: <9820eb00-2d26-4c2b-a692-eeb27311d0d7@g10g2000yqh.googlegroups.com>
References: <fe99d85a-7a73-4b7f-b8cd-41476fbef43f@y17g2000yqd.googlegroups.com>
NNTP-Posting-Host: 72.241.231.67
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269629430 10360 127.0.0.1 (26 Mar 2010 18:50:30 GMT)
```

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Mar 2010 18:50:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g10g2000yqh.googlegroups.com; posting-host=72.241.231.67;
     posting-account=1WUOzAoAAADVdXuxcH8-CCd3ty35wPHB
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
     Trident/4.0),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3260

On Mar 26, 6:36=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> I was going to start a valve project and wanted to purchase some hole
> saws for cutting out the socket holes. What sizes will I need for 7 9
> and octal sockets?
>
> Jimmie

The simplest cure for this problem is here.
http://www.harborfreight.com/cpi/ctaf/displayitem.taf?Itemnumber=3D96275



From -7260703386127277009
X-Google-Thread: fc2a5,3fa437c7b08bd68e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!g19g2000yqe.googlegroups.com!not-for-
mail
From: Dave Smirkenberg <smirk50@rocketmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Microphone needed
Date: Fri, 26 Mar 2010 11:58:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <bee11ff1-da9b-4c54-9065-f8c33b2ea651@g19g2000yqe.googlegroups.com>
References: <hl4bd7$qj9$2@news.eternal-september.org>
NNTP-Posting-Host: 72.241.231.67
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269629936 30018 127.0.0.1 (26 Mar 2010 18:58:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Mar 2010 18:58:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g19g2000yqe.googlegroups.com; posting-host=72.241.231.67;
     posting-account=1WUOzAoAAADVdXuxcH8-CCd3ty35wPHB
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
     Trident/4.0),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3261

On Feb 12, 3:50=A0pm, Henry <wa0...@arrl.net> wrote:
> I need a microphone for an Icom IC-229H 2m mobile rig. =A0I don't need a
> fancy mike, just one with push to talk will be fine. =A0The mic cable
> should have a circular female connector with seven pins in an outside
> circle and one pin in the center.
>
> I can be reached at 651-426-4144 or wa0...@arrl.net
>
> Thanks
>
> Henry =A0WA0GOZ

Without being a smart aleck, I have 1 question. "Sheesh, can't you get
a junk CB radio mike and find an 8 pin plug?" Surely the manual tells
the mike pinout, in fact I know it does. If you don't have the manual
get it from mods.dk.

"If you give a man a fish, he eats today. If you teach a man to fish,
he eats forever."


From -1352861189964337254
X-Google-Thread: fc2a5,300d5bf53e43b95a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!b30g2000yqd.googlegroups.com!not-for-
mail
From: Dave Smirkenberg <smirk50@rocketmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Stub-matched folded 2 band zepp - Slim Jim
Date: Fri, 26 Mar 2010 12:03:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 10
Message-ID: <d88d5a2f-b534-42f4-a7f9-8ed9ac23b0a3@b30g2000yqd.googlegroups.com>
References: <t6Sdnb2-W9MuCunWnZ2dnUVZ_sFi4p2d@giganews.com>
NNTP-Posting-Host: 72.241.231.67
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269630211 20426 127.0.0.1 (26 Mar 2010 19:03:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Mar 2010 19:03:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b30g2000yqd.googlegroups.com; posting-host=72.241.231.67;
     posting-account=1WUOzAoAAADVdXuxcH8-CCd3ty35wPHB
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
     Trident/4.0),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3559

On Feb 11, 7:44=A0pm, brian whatcott <betw...@sbcglobal.net> wrote:
> A fellow I work with showed me his new antenna buy for his handy-talky.
> A slim Jim. The punch line is low angle radiation boosting apparent
> gain. =A0 I bought one too. Under $30 with feeder and connector.
```

>
> Brian w

Pretty expensive, considering it might have 10 bucks worth of parts.
Are people really so bereft of skills today that they can't solder a
few wires together?

```
From 4555402153413731729
X-Google-Thread: fc2a5,89cb36f562be35b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!npeer03.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!spln!
extra.newsguy.com!newsp.newsguy.com!news5
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube socket holes
Date: Fri, 26 Mar 2010 19:06:23 -0500
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 18
Message-ID: <hoji6b0ukr@news5.newsguy.com>
References: <fe99d85a-7a73-4b7f-b8cd-41476fbef43f@y17g2000yqd.googlegroups.com>
<b4f6929f-753f-41b8-be9d-825dc2801f8b@b33g2000yqc.googlegroups.com>
NNTP-Posting-Host: p4a8668850937f44a13e00a54c55fa792b2326dd75a61b290.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
In-Reply-To: <b4f6929f-753f-41b8-be9d-825dc2801f8b@b33g2000yqc.googlegroups.com>
X-Antivirus: avast! (VPS 100326-0, 03/26/2010), Outbound message
X-Antivirus-Status: Clean
Xref: g2news1.google.com rec.radio.amateur.homebrew:3263
```

JIMMIE wrote:
> On Mar 26, 6:36 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>> I was going to start a valve project and wanted to purchase some hole
>> saws for cutting out the socket holes. What sizes will I need for 7 9
>> and octal sockets?
>>
>> Jimmie
>
> 7 pin 5/8 inch
> 8 pin 1-1/16 inch
> 9 pin 7/8 inch
>
> Jimmie

Make sure you are getting chassis punch sizes and not conduit sizes :)

-BM

```
From 6945577631451190279
X-Google-Thread: fc2a5,300d5bf53e43b95a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!news-in-01.newsfeed.easynews.com!
easynews!core-easynews-01!easynews.com!en-nntp-07.dc1.easynews.com.POSTED!not-for-
mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <t6Sdnb2-W9MuCunWnZ2dnUVZ_sFi4p2d@giganews.com> <d88d5a2f-b534-42f4-
a7f9-8ed9ac23b0a3@b30g2000yqd.googlegroups.com>
Subject: Re: Stub-matched folded 2 band zepp - Slim Jim
Lines: 10
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <2ocrn.255496$vr1.31036@en-nntp-07.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Fri, 26 Mar 2010 17:34:04 -0700
X-Original-Bytes: 1496
Xref: g2news1.google.com rec.radio.amateur.homebrew:3264
```

"Dave Smirkenberg" <smirk50@rocketmail.com> wrote in message
news:d88d5a2f-b534-42f4-a7f9-8ed9ac23b0a3@b30g2000yqd.googlegroups.com...

> Are people really so bereft of skills today that they can't solder a
> few wires together?

I think it's more than some people *just don't feel like* soldering a few wires together...

Same reason plenty of people pay to have their car's oil changed...

```
From 7008072031175628222
X-Google-Thread: fc2a5,89cb36f562be35b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news1.google.com!news1.google.com!goblin3!goblin.stu.neva.ru!
news-2.dfn.de!news.dfn.de!kanaga.switch.ch!switch.ch!newsfeed3.funet.fi!
newsfeeds.funet.fi!feeder2.news.elisa.fi!feeder.erje.net!news.glorb.com!
news2.glorb.com!news.glorb.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 27 Mar 2010 06:11:35 -0500
From: triode <triode.5f39d61@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube socket holes
Date: Sat, 27 Mar 2010 09:27:40 +0000
Message-ID: <triode.5f39d61@radiobanter.com>
Organization: RadioBanter.com
References: <fe99d85a-7a73-4b7f-b8cd-41476fbef43f@y17g2000yqd.googlegroups.com>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-lxpkId5ApMR40n+HHeMwKMY/c27RyZF2i9oU93ANE3jRy8Ftvn9SVeBxB6LXAwj/
wqvS5bqT9noXtK3!H09eTSBh2DYGo70j3QSLzq/fkzViSkwQJnkSzZY0AGMAbseSWZMlYgBJGJFpCKfA/
SD/e+V1OP/c!zAQ=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 7
Xref: g2news1.google.com rec.radio.amateur.homebrew:3265

JIMMIE;702964 Wrote:

> I was going to start a valve project and wanted to purchase some hole
> saws for cutting out the socket holes. What sizes will I need for 7 9
> and octal sockets?
>
> Jimmie

Look for greenlee punches.... do a quick tidy job. Require a 1/4 inch
hole to get them started.

--
triode

From -6476177341410724586
X-Google-Thread: fc2a5,300d5bf53e43b95a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail

```
NNTP-Posting-Date: Sat, 27 Mar 2010 06:52:32 -0500
Date: Sat, 27 Mar 2010 06:49:32 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Stub-matched folded 2 band zepp - Slim Jim
References: <t6Sdnb2-W9MuCunWnZ2dnUVZ_sFi4p2d@giganews.com> <d88d5a2f-b534-42f4-
a7f9-8ed9ac23b0a3@b30g2000yqd.googlegroups.com>
In-Reply-To: <d88d5a2f-b534-42f4-a7f9-8ed9ac23b0a3@b30g2000yqd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <pZCdnelUsY4dbDDWnZ2dnUVZ_vGdnZ2d@giganews.com>
Lines: 21
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-R7lQrSWsHzuPV03lg/W71A1WKeU4Rc1+Qla9fCTnbn9AXjIWWVs1v175wHxOL5aRuY/
9rx9jUea6IZY!Hg/93Tzj0/BuWA0G9Qdfo/rt9PNOQ7lJjcVQoDybNph9bZGpVLuwMv4/
XXBJnm5age39M/t2YWU=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3266

Dave Smirkenberg wrote:
> On Feb 11, 7:44 pm, brian whatcott <betw...@sbcglobal.net> wrote:
>> A fellow I work with showed me his new antenna buy for his handy-talky.
>> A slim Jim. The punch line is low angle radiation boosting apparent
>> gain.   I bought one too. Under $30 with feeder and connector.
>>
>> Brian w
>
> Pretty expensive, considering it might have 10 bucks worth of parts.
> Are people really so bereft of skills today that they can't solder a
> few wires together?


Sure, I have the necessary skills to order a bnc connector, coax and
twin line, then realise (as I did) that I needed a different connector
which comes in five variants; but I don't have the
UHF antenna analyzer (do you, or do you just fumble it?) so I leave that
kind of effort to people who really really enjoy that kind of busy work,
while I get on with what I enjoy... <grin>

Brian W


From 4495840312611929121
X-Google-Thread: fc2a5,89cb36f562be35b
X-Google-NewGroupId: yes
```

```
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 27 Mar 2010 07:04:45 -0500
Date: Sat, 27 Mar 2010 12:04:43 +0000
From: highlandham <highlandham.nospam@rfburns.eu>
User-Agent: Thunderbird 2.0.0.23 (X11/20100301)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube socket holes
References: <cf4367ec-510f-40b1-9f55-54bb59d53363@z35g2000yqd.googlegroups.com>
<slrnhqp4q7.sgs.gsm@cable.mendelson.com>
<Xns9D474FC016A6VeebleFetzer@216.250.188.141>
<8LadnTb9Y7zfVjHWnZ2dnUVZ8tOdnZ2d@pipex.net>
<Xns9D47729A23355VeebleFetzer@216.250.188.141>
In-Reply-To: <Xns9D47729A23355VeebleFetzer@216.250.188.141>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <2Kmdnb5q757AaTDWnZ2dnUVZ7qSdnZ2d@pipex.net>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.110.145.60
X-Trace: sv3-9Cg6LVfIVbc/gt9TioNWx0/
MXhTMzlBMmvgag9EAm3bU82pxO49DX9bCzl3+M4MidmoGCsaJJbj6IJg!x1Hj0cV/4VDJxnB0XGu/
MPU5wAZNLb/D0ulk8W1wUL3jV872ixkzZ9pdL0FXHkV7hbOo/g33/2SJ!xTIhuxi/
Q4RFc7w+kKzVZhia8w==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3564

Bert Hyman wrote:
> In news:8LadnTb9Y7zfVjHWnZ2dnUVZ8tOdnZ2d@pipex.net highlandham
> <highlandham.nospam@rfburns.eu> wrote:
>
>> For larger holes the RatShack nibbling tool is quite effective
>> ,finishing the hole with a 'half round' file.
>
> My Adel Nibbler has a peg of honor on the wall above the workbench.
>
> http://www.adelnibbler.com/
>
===========================================
The Adel nibbler might be a more professional tool costing US$ 30 +,but
I remember having paid less than US$ 10 for the RatShack tool, which
very well satisfies my needs.

Frank  GM0CSZ / KN6WH
```

```
From 2094709259153564926
X-Google-Thread: fc2a5,300d5bf53e43b95a
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 27 Mar 2010 07:22:15 -0500
Date: Sat, 27 Mar 2010 07:22:13 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Stub-matched folded 2 band zepp - Slim Jim
References: <t6Sdnb2-W9MuCunWnZ2dnUVZ_sFi4p2d@giganews.com> <d88d5a2f-b534-42f4-
a7f9-8ed9ac23b0a3@b30g2000yqd.googlegroups.com> <2ocrn.255496$vr1.31036@en-
nntp-07.dc1.easynews.com>
In-Reply-To: <2ocrn.255496$vr1.31036@en-nntp-07.dc1.easynews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <66-dnUYInfblZTDWnZ2dnUVZ_h-dnZ2d@giganews.com>
Lines: 19
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
vsk6KfuVYRjUjpWfBE8pmPYe8FmE8DOPeR2c8Ja1s9ph2AkVO9NY4VeaiBr5f59ILhGBqzyXJjhRURC!
N1pk01zw9tORnkmnQZsZKcK/2L9h+NT9Zp1LHm6PuWcNkK9XrB5UdZQYecwY74mNfkZ4yeyTnWs=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3268
```

Joel Koltner wrote:

> "Dave Smirkenberg" <smirk50@rocketmail.com> wrote in message
> news:d88d5a2f-b534-42f4-a7f9-8ed9ac23b0a3@b30g2000yqd.googlegroups.com...
>> Are people really so bereft of skills today that they can't solder a
>> few wires together?
>
> I think it's more than some people *just don't feel like* soldering a
> few wires together...
>
> Same reason plenty of people pay to have their car's oil changed...

That's hard to believe! You'll be telling me next people go to a car
wash rather than getting a bucket of warm water and a chamois cloth out,
to wash their car....   <grin>

Let's get serious: this is the Land of the Free - Free to hire somebody
to walk your dog, clean your windows, and cut your grass....

Brian W

```
From 2806653056988451027
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news2.glorb.com!
news.astraweb.com!border2.newsrouter.astraweb.com!not-for-mail
From: "JosephKK"<quiettechblue@yahoo.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Sat, 27 Mar 2010 06:18:36 -0700
Reply-To: "JosephKK"<quiettechblue@yahoo.com>
Message-ID: <751sq5p6ubkgbibcjpmnt4n5dpudui6km0@4ax.com>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable
Lines: 26
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: ffe66390.news.astraweb.com
X-Trace: DXC=<:J<DLnZ7knf3Y_QHDVbKhL?
0kYOcDh@jic2h253iQlfBNZ\CR<=\Yj7@j0BLiaDanV1f^1`B^U=mXFf@@h]`mTd
Xref: g2news1.google.com sci.electronics.design:151873
rec.radio.amateur.homebrew:3269
```

On Tue, 23 Mar 2010 12:39:59 -0700 (PDT), "dave.harper" =
<dave.harper@gmail.com> wrote:

>I'm trying to come up with a filter or converter that takes a square
>wave input and outputs something closer to a sign wave (varying
>between ~1.9kHz and 2.1kHz). It can have some distortion, but I'm
>trying to eliminate the sharp leading and trailing edge. One option
>I'm pursuing is a bandpass filter (2 caps and 2 resistors), which
>looks to give a reasonable output, but still not quite as smooth as
>I'd like. I've also considered using a counter feeding a bank of
>resistors, but finding a method for it to start counting up with it
>hits 0 and down when it hits the high value might be more difficult.
>
>Originally, I had used a wein-bridge oscillator with op-amps to make
>the sine wave, but due to the environment, EMI was a problem and it
>damped out the oscillations (even with ferrite beads and modest
>shielding). So I'd like to avoid using op-amps (since they are
>apparently sensitive to EMI) if possible.
>

```
>Any suggestions?
>
>Thanks in advance!
>Dave

With a 10% of fc range i would use an integrator first then use an=20
active RC bandpass filter.


From 2159204828597487459
X-Google-Thread: 112d1e,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,77d27bccf85d4dc5
X-Google-NewGroupId: yes
X-Google-Attributes: gid1617473143,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.alt.net!
news.astraweb.com!border1.newsrouter.astraweb.com!not-for-mail
From: "JosephKK"<quiettechblue@yahoo.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Square wave to psuedo-sine wave?
Date: Sat, 27 Mar 2010 06:28:45 -0700
Reply-To: "JosephKK"<quiettechblue@yahoo.com>
Message-ID: <bn1sq59mnrv2io9nc7ah1lveameem83s3e@4ax.com>
References: <62fd65d1-221a-4d33-8794-7b0dba3aa4dd@k17g2000yqb.googlegroups.com>
     <l77iq59ter9klfn4lc7a8j6hh9s5hld9np@4ax.com> <26bdccf8-6af8-47bc-92d6-
d1c78635565a@x12g2000yqx.googlegroups.com> <r_SdnVrKc8x_4DfWnZ2dnUVZ_sGdnZ2d@web-
ster.com>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable
Lines: 39
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: ffe66390.news.astraweb.com
X-Trace: DXC=3A<h[41EWAcdoV@f]470JnL?
0kYOcDh@jiADNEg]8Z_l3fINV@8\och7@j0BLiaDanV1f^1`B^U=m`nK<[?\YQ`i
Xref: g2news1.google.com sci.electronics.design:151874
rec.radio.amateur.homebrew:3270

On Wed, 24 Mar 2010 14:02:12 -0700, Tim Wescott <tim@seemywebsite.now> =
wrote:

>dave.harper wrote:
>> On Mar 23, 3:00 pm, John Larkin
>> <jjlar...@highNOTlandTHIStechnologyPART.com> wrote:
>>> On Tue, 23 Mar 2010 12:39:59 -0700 (PDT), "dave.harper"
>>>
>>> <dave.har...@gmail.com> wrote:
>>>> I'm trying to come up with a filter or converter that takes a square
>>>> wave input and outputs something closer to a sign wave (varying
>>>> between ~1.9kHz and 2.1kHz).  It can have some distortion, but I'm
>>>> trying to eliminate the sharp leading and trailing edge.  One option
```

```
>>>> I'm pursuing is a bandpass filter (2 caps and 2 resistors), which
>>>> looks to give a reasonable output, but still not quite as smooth as
>>>> I'd like.
>>> A lowpass filter is appropriate. You're trying to kill the higher
>>> (odd) harmonics but there's no signal below the fundamental, =
excepting
>>> DC maybe.
>>>
>>> A dual-stage RC lowpass would be pretty good, if you set the -3 dB
>>> point around 2 KHz. A higher-order filter, active or LC, would be =
even
>>> better. An LC filter isn't unreasonable at 2 KHz.
>>>
>>> John
>>=20
>> I modeled a few low pass filters, and think this is the best
>> solution.  I have 3 RC low-pass filters and the output looks
>> relatively sine-like.  Thanks to everyone that provided good
>> suggestions!  Here's the schematic in LTSpice (comments appreciated):
>
>If a well-designed Wien bridge oscillator gets hammered by RFI, you're=20
>somewhat depending on luck that an active filter doesn't have the same=20
>problem.

How many _well designed_ Wien bridge oscillators have you seen that get=20
hammered by EMI/RFI?



From 8500929217430323659
X-Google-Thread: fc2a5,89cb36f562be35b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!t23g2000yqt.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube socket holes
Date: Sat, 27 Mar 2010 08:07:37 -0700 (PDT)
Organization: http://groups.google.com
Lines: 24
Message-ID: <0977e6f1-3550-4b1d-bd2f-0dd2d64c6f9b@t23g2000yqt.googlegroups.com>
References: <fe99d85a-7a73-4b7f-b8cd-41476fbef43f@y17g2000yqd.googlegroups.com>
     <triode.5f39d61@radiobanter.com>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269702458 11091 127.0.0.1 (27 Mar 2010 15:07:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Mar 2010 15:07:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t23g2000yqt.googlegroups.com; posting-host=71.75.73.222;
```

```
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.2)
     Gecko/20100316 Firefox/3.6.2 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3568

On Mar 27, 5:27=A0am, triode <triode.5f39...@radiobanter.com> wrote:
> JIMMIE;702964 Wrote:
>
> > I was going to start a valve project and wanted to purchase some hole
> > saws for cutting out the socket holes. What sizes will I need for 7 9
> > and octal sockets?
>
> > Jimmie
>
> Look for greenlee punches.... do a quick tidy job. Require a 1/4 inch
> hole to get them started.
>
> --
> triode

Metal is too thick for punches, Ive used hole saws before but I was
having a hard time finding info on the right size to buy. My set was
stolen. I eventually found them listed on the internet but had to look
on 3 different sites to find the 3 values I needed. Of course this
meant I had to look on about 3 dozen sites to find the info I needed.
Like a dummy I didn't think of looking in one of my old radio
handbooks.

Jimmie



From 8682013633312278058
X-Google-Thread: fc2a5,89cb36f562be35b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!not-for-mail
From: mzenier@eskimo.com (Mark Zenier)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube socket holes
Date: Fri, 26 Mar 2010 19:00:07 GMT
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 23
Message-ID: <hol9o302r94@enews2.newsguy.com>
References: <cf4367ec-510f-40b1-9f55-54bb59d53363@z35g2000yqd.googlegroups.com>
NNTP-Posting-Host:
p830b39095acfd420c15929e2b9e9cfe74487431abe52615f4cc196212f8fe524.newsdawg.com
Originator: mzenier@eskimo.com (Mark Zenier)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3272
```

In article <cf4367ec-510f-40b1-9f55-54bb59d53363@z35g2000yqd.googlegroups.com>,
JIMMIE <JIMMIEDEE123@YAHOO.COM> wrote:
>I was going to start a valve project and wanted to purchase some hole
>saws for cutting out the socket holes. What sizes will I need for 7 9
>and octal sockets?

As I remember, for Octal, it's 1 1/8 inch. I remember because the
only punch I bought was a 1 inch one. ;-(

For the sure thing, try a early '60s ARRL handbook for their suggested
tool list in the construction sections.

(Hmmmm, dig, dig, dig).
From the 1969 handbook, they have 1/2, 5/8, 3/4, 1 1/8, 1 1/4, and
1 1/2 inch punches in the Recommended Tools list.

Digging out a Newark Catalog from the same era, it looks like 5/8"
for 7 pin, 3/4" for 9 pin, and 1 1/8" for Octal.

Mark Zenier mzenier@eskimo.com
Googleproofaddress(account:mzenier provider:eskimo domain:com)

```
From -7884896023669351903
X-Google-Thread: fc2a5,89cb36f562be35b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!z11g2000yqz.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube socket holes
Date: Sun, 28 Mar 2010 01:47:11 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <f4e2b0f0-2d23-4ecc-ad71-e8f610dad117@z11g2000yqz.googlegroups.com>
References: <cf4367ec-510f-40b1-9f55-54bb59d53363@z35g2000yqd.googlegroups.com>
     <slrnhqp4q7.sgs.gsm@cable.mendelson.com>
<Xns9D474FC016A6VeebleFetzer@216.250.188.141>
     <8LadnTb9Y7zfVjHWnZ2dnUVZ8tOdnZ2d@pipex.net>
<Xns9D47729A23355VeebleFetzer@216.250.188.141>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269766031 25867 127.0.0.1 (28 Mar 2010 08:47:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 28 Mar 2010 08:47:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z11g2000yqz.googlegroups.com; posting-host=71.75.73.222;
```

```
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.2)
     Gecko/20100316 Firefox/3.6.2 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3273

On Mar 26, 12:15=A0pm, Bert Hyman <b...@iphouse.com> wrote:
> Innews:8LadnTb9Y7zfVjHWnZ2dnUVZ8tOdnZ2d@pipex.nethighlandham
>
> <highlandham.nos...@rfburns.eu> wrote:
> > For larger holes the RatShack nibbling tool is quite effective
> > ,finishing the hole with a 'half round' file.
>
> My Adel Nibbler has a peg of honor on the wall above the workbench.
>
> http://www.adelnibbler.com/
>
> --
> Bert Hyman =A0 =A0 =A0W0RSB =A0 St. Paul, MN =A0 =A0b...@iphouse.com

Mine too. But my Dremel tool takes up more and more of its duty.

Jimmie



From -6922596320257350451
X-Google-Thread: fc2a5,89cb36f562be35b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!z3g2000yqz.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube socket holes
Date: Sun, 28 Mar 2010 01:54:43 -0700 (PDT)
Organization: http://groups.google.com
Lines: 29
Message-ID: <2d429ccd-31ca-46b6-b75e-4f046c6bb1bc@z3g2000yqz.googlegroups.com>
References: <cf4367ec-510f-40b1-9f55-54bb59d53363@z35g2000yqd.googlegroups.com>
     <slrnhqp4q7.sgs.gsm@cable.mendelson.com> <hoi4kv021lr@news4.newsguy.com>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269766483 31885 127.0.0.1 (28 Mar 2010 08:54:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 28 Mar 2010 08:54:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z3g2000yqz.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.2)
```

```
     Gecko/20100316 Firefox/3.6.2 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3571

On Mar 26, 7:08=A0am, Bill M <radioex...@geeeemail.com> wrote:
> Geoffrey S. Mendelson wrote:
> > JIMMIE wrote:
> >> I was going to start a valve project and wanted to purchase some hole
> >> saws for cutting out the socket holes. What sizes will I need for 7 9
> >> and octal sockets?
>
> > I don't remember the sizes, but holes were never sawed for tube sockets=
.
> > Instead of using saws, which are very difficult to control and make a m=
ess
> > of everything, hole punches were used.
>
> Punches are certainly the way to go if you have some or can borrow some.
> =A0 Otherwise its kind of expensive to have to go out and buy some for a
> one time use.
>
> An alternative is the 'unibit' type of drill bits. =A0They make them larg=
e
> enough for 7/9 pin sockets. =A0See Harbour Freight.
>
> GL with your project.
>
> -Bill

Ive tried the Uni-bits. They are OK as long as you don't go 1 step too
far. Unfortunately I have done that a couple of times,

Jimmie


From 1479279288939794705
X-Google-Thread: fc2a5,89cb36f562be35b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news7
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube socket holes
Date: Sun, 28 Mar 2010 07:15:35 -0500
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 30
Message-ID: <honh9d01alj@news7.newsguy.com>
References: <cf4367ec-510f-40b1-9f55-54bb59d53363@z35g2000yqd.googlegroups.com>
     <slrnhqp4q7.sgs.gsm@cable.mendelson.com> <hoi4kv021lr@news4.newsguy.com>
<2d429ccd-31ca-46b6-b75e-4f046c6bb1bc@z3g2000yqz.googlegroups.com>
NNTP-Posting-Host: pefd11b84a66783b3e9077fdb20c3e369631e75a3a1df3f88.newsdawg.com
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
In-Reply-To: <2d429ccd-31ca-46b6-b75e-4f046c6bb1bc@z3g2000yqz.googlegroups.com>
X-Antivirus: avast! (VPS 100328-0, 03/28/2010), Outbound message
X-Antivirus-Status: Clean
Xref: g2news1.google.com rec.radio.amateur.homebrew:3275

JIMMIE wrote:
> On Mar 26, 7:08 am, Bill M <radioex...@geeeemail.com> wrote:
>> Geoffrey S. Mendelson wrote:
>>> JIMMIE wrote:
>>>> I was going to start a valve project and wanted to purchase some hole
>>>> saws for cutting out the socket holes. What sizes will I need for 7 9
>>>> and octal sockets?
>>> I don't remember the sizes, but holes were never sawed for tube sockets.
>>> Instead of using saws, which are very difficult to control and make a mess
>>> of everything, hole punches were used.
>> Punches are certainly the way to go if you have some or can borrow some.
>>   Otherwise its kind of expensive to have to go out and buy some for a
>> one time use.
>>
>> An alternative is the 'unibit' type of drill bits.  They make them large
>> enough for 7/9 pin sockets.  See Harbour Freight.
>>
>> GL with your project.
>>
>> -Bill
>
> Ive tried the Uni-bits. They are OK as long as you don't go 1 step too
> far. Unfortunately I have done that a couple of times,
>
> Jimmie

They also have ones now that are not stepped for 'fine tuning' your
holes. :)

-Bill



From 1986468711966014091
X-Google-Thread: fc2a5,89cb36f562be35b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
news.mixmin.net!feeder.eternal-september.org!eternal-september.org!.POSTED!not-
for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube socket holes
Date: Sun, 28 Mar 2010 08:38:24 -0400
```

Organization: A noiseless patient Spider
Lines: 55
Message-ID: <honm8a$p44$1@news.eternal-september.org>
References: <cf4367ec-510f-40b1-9f55-54bb59d53363@z35g2000yqd.googlegroups.com>
<slrnhqp4q7.sgs.gsm@cable.mendelson.com> <hoi4kv021lr@news4.newsguy.com>
<2d429ccd-31ca-46b6-b75e-4f046c6bb1bc@z3g2000yqz.googlegroups.com>
<honh9d01alj@news7.newsguy.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sun, 28 Mar 2010 13:40:26 +0000 (UTC)
Injection-Info: feeder.eternal-september.org;
logging-data="25732"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX18EBgaBCHUzgtsj++OcKp5RkFyDsdwtQwo="
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
In-Reply-To: <honh9d01alj@news7.newsguy.com>
Cancel-Lock: sha1:Yvpz1ZwexJLqoXIZ3PxtXk41gLA=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3276

7 pin mini tube sockets mount in 5/8" holes
9 pin mini tube sockets in a 3/4" hole.
Octal sockets vary, some mount in holes as small as 1", others require
1 1/8" to 1 1/4" holes.

You CAN find drills up to 1" in diameter with 1/2 shafts for use in a drill press, but they are not cheap. I have a 1" drill that gets used rarely.

Used Greenlee socket punches up to 1.25" (or larger) can be found on ebay at reasonable prices. They can be cheaper than a new drill bit of the same size!

Holes saws which have a drill bit for a pilot hole surrounded by a saw blade bent into a circle will do a good job if the work is done on a drill press. They cut well into aluminum or wood, but will dull quickly into steel. Back the metal to be cut with a scrap block of wood and clamp the work to the drill press table. Run the drill press at a low speed (200-500 RPM) and use a little oil for lubrication. I've cut holes up to 4" diameter into panels for meters and CRT's with these.

Bill M wrote:
> JIMMIE wrote:
>> On Mar 26, 7:08 am, Bill M <radioex...@geeeemail.com> wrote:
>>> Geoffrey S. Mendelson wrote:
>>>> JIMMIE wrote:
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>>>>> saws for cutting out the socket holes. What sizes will I need for 7 9
>>>>> and octal sockets?
>>>> I don't remember the sizes, but holes were never sawed for tube
>>>> sockets.
>>>> Instead of using saws, which are very difficult to control and make
>>>> a mess

```
>>>> of everything, hole punches were used.
>>> Punches are certainly the way to go if you have some or can borrow some.
>>>   Otherwise its kind of expensive to have to go out and buy some for a
>>> one time use.
>>>
>>> An alternative is the 'unibit' type of drill bits.  They make them large
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>>>
>>> GL with your project.
>>>
>>> -Bill
>>
>> Ive tried the Uni-bits. They are OK as long as you don't go 1 step too
>> far. Unfortunately I have done that a couple of times,
>>
>> Jimmie
>
> They also have ones now that are not stepped for 'fine tuning' your
> holes. :)
>
> -Bill


From 8662268254275600274
X-Google-Thread: fc2a5,89cb36f562be35b
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 28 Mar 2010 09:09:51 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <cf4367ec-510f-40b1-9f55-54bb59d53363@z35g2000yqd.googlegroups.com>
     <slrnhqp4q7.sgs.gsm@cable.mendelson.com> <hoi4kv021lr@news4.newsguy.com>
<2d429ccd-31ca-46b6-b75e-4f046c6bb1bc@z3g2000yqz.googlegroups.com>
<honh9d01alj@news7.newsguy.com> <honm8a$p44$1@news.eternal-september.org>
Subject: Re: Tube socket holes
Date: Sun, 28 Mar 2010 09:09:51 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <MbednTDc1_qy_jLWnZ2dnUVZ_sadnZ2d@giganews.com>
Lines: 72
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-HpncWC5MYgZlfPwQBmxdMO1vTgjySkNf4/
AGcQvjEbCHqphfhBxVCoNdsjqDIsuiBcXv5kPMenrr+Yj!
9onqD+qTx1/+FXNh9Q2s8eGoq89SsCAbYlcc+bFfLqSmetsUf+a8wGgE/uBg9jcnAQH8HKoRBzu3
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
```

X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3277

Kenneth Scharf wrote:
> 7 pin mini tube sockets mount in 5/8" holes
> 9 pin mini tube sockets in a 3/4" hole.
> Octal sockets vary, some mount in holes as small as 1", others require
> 1 1/8" to 1 1/4" holes.
>
> You CAN find drills up to 1" in diameter with 1/2 shafts for use in a
> drill press, but they are not cheap. I have a 1" drill that gets used
> rarely.
>
> Used Greenlee socket punches up to 1.25" (or larger) can be found on
> ebay at reasonable prices. They can be cheaper than a new drill bit
> of the same size!
>
> Holes saws which have a drill bit for a pilot hole surrounded by a saw
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> drill press. They cut well into aluminum or wood, but will dull
> quickly into steel. Back the metal to be cut with a scrap block of
> wood and clamp the work to the drill press table. Run the drill
> press at a low speed (200-500 RPM) and use a little oil for
> lubrication. I've cut holes up to 4" diameter into panels for meters
> and CRT's with these.

You're probably using hole saws meant for wood if it dulls quickly in steel
sheet metal. You have to use bi-metal hole saws for drilling into steel.
They work quite well, and used properly, will last for quite a while.

Cheers,
Dave M

>
> Bill M wrote:
>> JIMMIE wrote:
>>> On Mar 26, 7:08 am, Bill M <radioex...@geeeemail.com> wrote:
>>>> Geoffrey S. Mendelson wrote:
>>>>> JIMMIE wrote:
>>>>>> I was going to start a valve project and wanted to purchase some
>>>>>> hole saws for cutting out the socket holes. What sizes will I
>>>>>> need for 7 9 and octal sockets?
>>>>> I don't remember the sizes, but holes were never sawed for tube
>>>>> sockets.
>>>>> Instead of using saws, which are very difficult to control and
>>>>> make a mess
>>>>> of everything, hole punches were used.
>>>> Punches are certainly the way to go if you have some or can borrow
>>>>   some. Otherwise its kind of expensive to have to go out and buy

```
>>>> some for a one time use.
>>>>
>>>> An alternative is the 'unibit' type of drill bits.  They make them
>>>> large enough for 7/9 pin sockets.  See Harbour Freight.
>>>>
>>>> GL with your project.
>>>>
>>>> -Bill
>>>
>>> Ive tried the Uni-bits. They are OK as long as you don't go 1 step
>>> too far. Unfortunately I have done that a couple of times,
>>>
>>> Jimmie
>>
>> They also have ones now that are not stepped for 'fine tuning' your
>> holes. :)
>>
>> -Bill

--
David
dgminala at mediacombb dot net
```

```
From 1454911309358355760
X-Google-Thread: fc2a5,3dc0117cdcbe53f4,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.brightview.co.uk!news.brightview.co.uk.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 28 Mar 2010 09:17:45 -0500
From: "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Mains Inverters
Date: Sun, 28 Mar 2010 15:17:44 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <lfGdnYFuu7yU-DLWnZ2dnUVZ8s2dnZ2d@brightview.co.uk>
Lines: 16
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
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mUzlSoHnJ8xtU5uOBsl/uVHQr6XGrNWl11HAKf+wnhdr0+riJEt7hBtNEHrxQ3E/IB1MXWT9UUMv!
7iJSKSBvNRfo1yIinoeqfsmuf84=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3278

Hello everyone!

If I used a 300W 12V DC to 230V AC power inverter with an efficiency of 90%,
how much power would the battery need to supply to the inverter, to run a
300W mains device? 333.3W?
Is it really that simple?

JOHN

----

broadband for as little as �5.99/month
see www.wells10000.plus.com for info

From 7249414341761540200
X-Google-Thread: fc2a5,3dc0117cdcbe53f4
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!STARBAND.NET-a2kHrUvQQWlmc!not-for-mail
From: Me <Me@shadow.orgs>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Mains Inverters
Organization: Shadow.orgs
References: <lfGdnYFuu7yU-DLWnZ2dnUVZ8s2dnZ2d@brightview.co.uk>
User-Agent: MT-NewsWatcher/3.5.3b3 (PPC Mac OS X)
Date: Sun, 28 Mar 2010 09:17:10 -0800
Message-ID: <Me-95F7A1.09170728032010@unknown.hwng.net>
X-Complaints-To: abuse@usenetserver.com
Lines: 26
X-Trace: 2d3b64baf8f1931e5901f08418
Xref: g2news1.google.com rec.radio.amateur.homebrew:3279

In article <lfGdnYFuu7yU-DLWnZ2dnUVZ8s2dnZ2d@brightview.co.uk>,
 "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk> wrote:

> Hello everyone!
>
> If I used a 300W 12V DC to 230V AC power inverter with an efficiency of 90%,
> how much power would the battery need to supply to the inverter, to run a
> 300W mains device? 333.3W?
> Is it really that simple?

>
> JOHN
>
>
> ---------------------------------------
>
> broadband for as little as �5.99/month
> see www.wells10000.plus.com for info

No, you forgot the Resistive losses in the DC wires from the Battery to the Inverter, and the losses in the battery itself, when supplying large currents.

Remember that 300 watts at 12 Vdc is 25 Amps... That is a lot for anything but an Industrial Battery....

Me   one who lives Off-Grid with a much larger System

From 5040368541988764883
X-Google-Thread: fc2a5,3dc0117cdcbe53f4
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.brightview.co.uk!news.brightview.co.uk.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 28 Mar 2010 15:34:27 -0500
From: "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <lfGdnYFuu7yU-DLWnZ2dnUVZ8s2dnZ2d@brightview.co.uk>
<Me-95F7A1.09170728032010@unknown.hwng.net>
Subject: Re: Mains Inverters
Date: Sun, 28 Mar 2010 21:29:40 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <sZWdnbpcz8jOIDLWnZ2dnUVZ8hidnZ2d@brightview.co.uk>
Lines: 7
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X-Trace: sv3-o3wSwBv3hoseQCuCVKUQSmnuWD+JN2HUu2TMsPuZq30wD7+gae/
erZma2abECi8ipMuxfOEq1cWgqDN!dFbBJYNtJRZcbZh9/lsfcpCiC/xchIm8G8urPJMo8V40/
SiClY3T4an0xWbKNfFul14GDoDtUb+9!c6B/kTDKbN9N0IYmn0Z6trE1HmM=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3577

Hi Me,

Thanks for the info - from an expert it seems.

JOHN

```
From -3088649453127072584
X-Google-Thread: 241b302a50,de4d22589237bac3,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
213.200.89.82.MISMATCH!news1.as3257.net!draco.tiscalinet.it!news-f2.tiscali.it!
not-for-mail
From: radio fan <indirizzo@dominio.cc>
Newsgroups: rec.radio.amateur.homebrew
Subject: http://www.radioteam.eu/
Date: Sun, 28 Mar 2010 23:55:33 +0200
Message-ID: <22kvq5ln7id1oehq4c0lf89j88q0s1goob@4ax.com>
X-Newsreader: Forte Agent 6.00/32.1186
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 5
Organization: Tiscali SpA
NNTP-Posting-Host: 217.133.69.129
X-Trace: 1269813333 news.tiscali.it 30910 217.133.69.129:2735
X-Complaints-To: abuse@tiscali.it
Xref: g2news2.google.com rec.radio.amateur.homebrew:3578
```

http://www.radioteam.eu/

Radioteam.eu is a directory of streaming media freely available in the Internet

```
From -7060079351829231832
X-Google-Thread: fc2a5,670fc359edc163ab,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y17g2000yqd.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Transformer
Date: Sun, 28 Mar 2010 20:22:59 -0700 (PDT)
Organization: http://groups.google.com
Lines: 7
Message-ID: <e5ed7151-80be-4731-a305-5aa450502964@y17g2000yqd.googlegroups.com>
NNTP-Posting-Host: 71.75.73.222
```

Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1269832979 14825 127.0.0.1 (29 Mar 2010 03:22:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 29 Mar 2010 03:22:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y17g2000yqd.googlegroups.com; posting-host=71.75.73.222;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.2)
Gecko/20100316 Firefox/3.6.2 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3579

I am looking for a source of a very small transformer that will supply
125 VAC on the secondary and enough 6.3 VAC with current for 1 or two
small tubes. Something on the order of a 12AX7 or 2. Small physical
size is important. I need to be able to shoehorn the whole thing
inside of a double outlet box.

Jimmie

From -4221162404070943436
X-Google-Thread: fc2a5,670fc359edc163ab
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 29 Mar 2010 06:22:18 -0500
Date: Mon, 29 Mar 2010 06:21:29 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer
References: <e5ed7151-80be-4731-a305-5aa450502964@y17g2000yqd.googlegroups.com>
In-Reply-To: <e5ed7151-80be-4731-a305-5aa450502964@y17g2000yqd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <kOOdnc3i2Nn3EC3WnZ2dnUVZ_qSdnZ2d@giganews.com>
Lines: 14
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Gar7dTS9or23ElFCHkZPZo1dsnFw5QdYFAuNSZVA/
SUTIXmiyRlTfF2YrHq6JNlgDLzugr6TdhN1ViX!
D5PBD5C7ExvdStJ3YZi4wxnbU27K+MTZglUdlvmvF9yQVLHfzdrli3S+zQMXiBe0lD9IhIBJLBg=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly

X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3283

JIMMIE wrote:
> I am looking for a source of a very small transformer that will supply
> 125 VAC on the secondary and enough 6.3 VAC with current for 1 or two
> small tubes. Something on the order of a 12AX7 or 2. Small physical
> size is important. I need to be able to shoehorn the whole thing
> inside of a double outlet box.
>
> Jimmie

Bell transformers are smallish - but they put out more than 6 V AC.
If you want SMALL, a high frequency drive to a few turns on a ferrite
core it the bill well.

Brian W

From -5708807683427474399
X-Google-Thread: 241b302a50,670fc359edc163ab
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad!post01.iad!not-
for-mail
From: Kickin' Ass and Takin' Names <PopUlist349@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer
Date: Mon, 29 Mar 2010 07:39:00 -0400
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse(at)newshosting.com
Message-ID: <aa41r5t3uuvkg4ecakkj9q6nj94n1janek@4ax.com>
References: <e5ed7151-80be-4731-a305-5aa450502964@y17g2000yqd.googlegroups.com>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 15
Xref: g2news2.google.com rec.radio.amateur.homebrew:3581

On Sun, 28 Mar 2010 20:22:59 -0700 (PDT), JIMMIE
<JIMMIEDEE123@YAHOO.COM> wrote:

>I am looking for a source of a very small transformer that will supply
>125 VAC on the secondary and enough 6.3 VAC with current for 1 or two
>small tubes. Something on the order of a 12AX7 or 2. Small physical
>size is important. I need to be able to shoehorn the whole thing
>inside of a double outlet box.
>
>Jimmie

May be too big:

http://www.mouser.com/Power/Transformers/_/N-5gc5?
P=1z0wd0a&Keyword=6+volt+power+transformer&FS=True

```
From -6090582155368429898
X-Google-Thread: fc2a5,670fc359edc163ab
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!33g2000yqj.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer
Date: Mon, 29 Mar 2010 05:16:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <03845e8b-4122-4454-86bd-f0906ffe0987@33g2000yqj.googlegroups.com>
References: <e5ed7151-80be-4731-a305-5aa450502964@y17g2000yqd.googlegroups.com>
NNTP-Posting-Host: 99.181.120.209
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269864990 6672 127.0.0.1 (29 Mar 2010 12:16:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 29 Mar 2010 12:16:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 33g2000yqj.googlegroups.com; posting-host=99.181.120.209;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.1.3)
     Gecko/20091020 Ubuntu/9.10 (karmic) Firefox/3.5.3,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3582
```

On Mar 28, 11:22=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> I am looking for a source of a very small transformer that will supply
> 125 VAC on the secondary and enough 6.3 VAC with current for 1 or two
> small tubes. Something on the order of a 12AX7 or 2. Small physical
> size is important. I need to be able to shoehorn the whole thing
> inside of a double outlet box.
>
> Jimmie

Hey OM:
Gits' yourself a old busted VTVM the real old ones used a 6AL5 and a
12AX7 and had to have secondary isolation for the plates of the 12AX7.
I remember I picked up a VTVM for 2USD at a radio rally

73 OM

```
de n8zu


From -3936975359236222894
X-Google-Thread: 241b302a50,670fc359edc163ab
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!y17g2000yqd.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer
Date: Mon, 29 Mar 2010 07:48:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <8a1b9a03-0180-4175-a9a3-e4cd2f6a85c4@y17g2000yqd.googlegroups.com>
References: <e5ed7151-80be-4731-a305-5aa450502964@y17g2000yqd.googlegroups.com>
     <03845e8b-4122-4454-86bd-f0906ffe0987@33g2000yqj.googlegroups.com>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269874131 29771 127.0.0.1 (29 Mar 2010 14:48:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 29 Mar 2010 14:48:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y17g2000yqd.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.2)
     Gecko/20100316 Firefox/3.6.2 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3286

On Mar 29, 8:16=A0am, raypsi <rborow...@gmail.com> wrote:
> On Mar 28, 11:22=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
> > I am looking for a source of a very small transformer that will supply
> > 125 VAC on the secondary and enough 6.3 VAC with current for 1 or two
> > small tubes. Something on the order of a 12AX7 or 2. Small physical
> > size is important. I need to be able to shoehorn the whole thing
> > inside of a double outlet box.
>
> > Jimmie
>
> Hey OM:
> Gits' yourself a old busted VTVM =A0the real old ones used a 6AL5 and a
> 12AX7 and had to have secondary isolation for the plates of the 12AX7.
> I remember I picked up a VTVM for 2USD at a radio rally
>
> 73 OM
> de n8zu
```

Hmm, think I got one if I didn't toss it on my last clean up.

Daughter wants a preamp/tone control she can connect between her
guitar and a PA. Circuit design is no problem but fitting it all in
the box she wants it in may be a headache

Jimmie

From 6174433231164447511
X-Google-Thread: 241b302a50,670fc359edc163ab
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 29 Mar 2010 15:07:38 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <e5ed7151-80be-4731-a305-5aa450502964@y17g2000yqd.googlegroups.com>
<03845e8b-4122-4454-86bd-f0906ffe0987@33g2000yqj.googlegroups.com>
<8a1b9a03-0180-4175-a9a3-e4cd2f6a85c4@y17g2000yqd.googlegroups.com>
Subject: Re: Transformer
Date: Mon, 29 Mar 2010 15:07:38 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <fNqdnVT-C9cXlSzWnZ2dnUVZ_vidnZ2d@giganews.com>
Lines: 48
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-f7Kdwc5IMPVmHwLttU+
+h4xKU4pXTuJLQ5XSFZogbIXFnxp5yd4pqsK4gFHnj0hqGCAAaeyyzsf6jI3!
dxBkQRbNiUIPJ9lWxzHlxnlSQUcOMfubj84yp8eO6jsoodS+/YtPJdMnEquTvupMOf8LO6UOdrHz
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3287

JIMMIE wrote:
> On Mar 29, 8:16 am, raypsi <rborow...@gmail.com> wrote:
>> On Mar 28, 11:22 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>>
>>> I am looking for a source of a very small transformer that will
>>> supply 125 VAC on the secondary and enough 6.3 VAC with current for
>>> 1 or two small tubes. Something on the order of a 12AX7 or 2. Small
>>> physical size is important. I need to be able to shoehorn the whole
>>> thing inside of a double outlet box.

>>
>>> Jimmie
>>
>> Hey OM:
>> Gits' yourself a old busted VTVM the real old ones used a 6AL5 and a
>> 12AX7 and had to have secondary isolation for the plates of the
>> 12AX7. I remember I picked up a VTVM for 2USD at a radio rally
>>
>> 73 OM
>> de n8zu
>
> Hmm, think I got one if I didn't toss it on my last clean up.
>
> Daughter wants a preamp/tone control she can connect between her
> guitar and a PA. Circuit design is no problem but fitting it all in
> the box she wants it in may be a headache
>
> Jimmie

You can probably find a suitable transformer at www.oldradioparts.com. They
have a $20.00 minimum, but they have a good selection of new and used parts
of all kinds, including transformers. Download the latest transformer list
at http://www.oldradioparts.com/2a23efl.txt and browse thru it to find a
suitable candidate. You'll probably find just about all the parts you'll
need to build the project from the web site; it's just a bit tedious to read
thru all the lists to find what you need.
I've done business with them before and find them to be reputable and easy
to deal with.

If you can't meet their minimum, you might download the Hammond transformer
catalog from and find the part number of a suitable unit, then search Mouser
(www.mouser.com), Digikey (www.digikey.com), Jameco (www.jameco.com), Allied
(www.alliedelec) and Newark (www.newark.com) web sites to buy.
--
David
dgminala at mediacombb dot net

From -6637330685501006664
X-Google-Thread: fc2a5,670fc359edc163ab
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 29 Mar 2010 17:31:08 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <e5ed7151-80be-4731-a305-5aa450502964@y17g2000yqd.googlegroups.com>

```
<03845e8b-4122-4454-86bd-f0906ffe0987@33g2000yqj.googlegroups.com>
<8a1b9a03-0180-4175-a9a3-e4cd2f6a85c4@y17g2000yqd.googlegroups.com> <fNqdnVT-
C9cXlSzWnZ2dnUVZ_vidnZ2d@giganews.com>
Subject: Re: Transformer
Date: Mon, 29 Mar 2010 17:31:08 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <BoydnRNUD7GxtyzWnZ2dnUVZ_uudnZ2d@giganews.com>
Lines: 57
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
ubuims7cMxxIWG03QuZDRGZ5jVpf502HKgSTF2GanK2kx4jmPVVma4dKsTQjoQrePqg0MpU6pFurI1T!
AUFQIWiFPACEZl7i8VxnM6kt5bwV1VSdSxypsnhRlamY0O7A47Z0JJcDY4agThwyMkwNm6SOdslw
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3585

Dave M wrote:
> JIMMIE wrote:
>> On Mar 29, 8:16 am, raypsi <rborow...@gmail.com> wrote:
>>> On Mar 28, 11:22 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>>>
>>>> I am looking for a source of a very small transformer that will
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>>>> 1 or two small tubes. Something on the order of a 12AX7 or 2. Small
>>>> physical size is important. I need to be able to shoehorn the whole
>>>> thing inside of a double outlet box.
>>>
>>>> Jimmie
>>>
>>> Hey OM:
>>> Gits' yourself a old busted VTVM the real old ones used a 6AL5 and a
>>> 12AX7 and had to have secondary isolation for the plates of the
>>> 12AX7. I remember I picked up a VTVM for 2USD at a radio rally
>>>
>>> 73 OM
>>> de n8zu
>>
>> Hmm, think I got one if I didn't toss it on my last clean up.
>>
>> Daughter wants a preamp/tone control she can connect between her
>> guitar and a PA. Circuit design is no problem but fitting it all in
>> the box she wants it in may be a headache
>>
>> Jimmie
>
```

> You can probably find a suitable transformer at
> www.oldradioparts.com. They have a $20.00 minimum, but they have a
> good selection of new and used parts of all kinds, including
> transformers. Download the latest transformer list at
> http://www.oldradioparts.com/2a23efl.txt and browse thru it to find a
> suitable candidate. You'll probably find just about all the parts
> you'll need to build the project from the web site; it's just a bit
> tedious to read thru all the lists to find what you need. I've done
> business with them before and find them to be reputable and
> easy to deal with.
>
> If you can't meet their minimum, you might download the Hammond
> transformer catalog from and find the part number of a suitable unit,
> then search Mouser (www.mouser.com), Digikey (www.digikey.com),
> Jameco (www.jameco.com), Allied (www.alliedelec) and Newark
> (www.newark.com) web sites to buy.

Oops... I forgot to paste the URL for Hammond's power transformer page.
It's http://www.hammondmfg.com/5cpwr.htm.
You should also download their cross reference guides at
http://www.hammondmfg.com/5ccross.htm to find suitable transformers from
other manufacturers to get the best price.
--
David
dgminala at mediacombb dot net

From -5729103367199370821
X-Google-Thread: fc2a5,670fc359edc163ab
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!q23g2000yqd.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer
Date: Mon, 29 Mar 2010 18:14:43 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
Message-ID: <70e007f4-6767-4fba-9e95-0e01a827b56a@q23g2000yqd.googlegroups.com>
References: <e5ed7151-80be-4731-a305-5aa450502964@y17g2000yqd.googlegroups.com>
<03845e8b-4122-4454-86bd-f0906ffe0987@33g2000yqj.googlegroups.com>
<8a1b9a03-0180-4175-a9a3-e4cd2f6a85c4@y17g2000yqd.googlegroups.com>
<fNqdnVT-C9cXlSzWnZ2dnUVZ_vidnZ2d@giganews.com>
<BoydnRNUD7GxtyzWnZ2dnUVZ_uudnZ2d@giganews.com>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

```
X-Trace: posting.google.com 1269911684 5419 127.0.0.1 (30 Mar 2010 01:14:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 30 Mar 2010 01:14:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q23g2000yqd.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.2)
     Gecko/20100316 Firefox/3.6.2 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3586

On Mar 29, 6:31=A0pm, "Dave M" <dgminala4...@mediacombb.net> wrote:
> Dave M wrote:
> > JIMMIE wrote:
> >> On Mar 29, 8:16 am, raypsi <rborow...@gmail.com> wrote:
> >>> On Mar 28, 11:22 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
> >>>> I am looking for a source of a very small transformer that will
> >>>> supply 125 VAC on the secondary and enough 6.3 VAC with current for
> >>>> 1 or two small tubes. Something on the order of a 12AX7 or 2. Small
> >>>> physical size is important. I need to be able to shoehorn the whole
> >>>> thing inside of a double outlet box.
>
> >>>> Jimmie
>
> >>> Hey OM:
> >>> Gits' yourself a old busted VTVM the real old ones used a 6AL5 and a
> >>> 12AX7 and had to have secondary isolation for the plates of the
> >>> 12AX7. I remember I picked up a VTVM for 2USD at a radio rally
>
> >>> 73 OM
> >>> de n8zu
>
> >> Hmm, think I got one if I didn't toss it on my last clean up.
>
> >> Daughter wants a preamp/tone control she can connect between her
> >> guitar and a PA. Circuit design is no problem but fitting it all in
> >> the box she wants it in may be a headache
>
> >> Jimmie
>
> > You can probably find a suitable transformer at
> >www.oldradioparts.com. =A0They have a $20.00 minimum, but they have a
> > good selection of new and used parts of all kinds, including
> > transformers. =A0Download the latest transformer list at
> >http://www.oldradioparts.com/2a23efl.txtand browse thru it to find a
> > suitable candidate. =A0You'll probably find just about all the parts
> > you'll need to build the project from the web site; it's just a bit
> > tedious to read thru all the lists to find what you need. I've done
> > business with them before and find them to be reputable and
> > easy to deal with.
>
> > If you can't meet their minimum, you might download the Hammond
> > transformer catalog from and find the part number of a suitable unit,
> > then search Mouser (www.mouser.com), Digikey (www.digikey.com),
> > Jameco (www.jameco.com), Allied (www.alliedelec) and Newark
> > (www.newark.com) web sites to buy.
>
> Oops... I forgot to paste the URL for Hammond's power transformer page.
> It'shttp://www.hammondmfg.com/5cpwr.htm.
> You should also download their cross reference guides athttp://www.hammon=
dmfg.com/5ccross.htmto find suitable transformers from
> other manufacturers to get the best price.
> --
> David
> dgminala at mediacombb dot net

Thanks guys, I found one transformer in my junk box that should work.
As a matter of fact it is part of an audio phono preamp. Think I made
need a couple more if this works out .

Jimmie



From 7141441902205953556
X-Google-Thread: fc2a5,670fc359edc163ab
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news3
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer
Date: Mon, 29 Mar 2010 21:45:02 -0500
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 13
Message-ID: <horojl01s20@news3.newsguy.com>
References: <e5ed7151-80be-4731-a305-5aa450502964@y17g2000yqd.googlegroups.com>
     <03845e8b-4122-4454-86bd-f0906ffe0987@33g2000yqj.googlegroups.com>
     <8a1b9a03-0180-4175-a9a3-e4cd2f6a85c4@y17g2000yqd.googlegroups.com>
     <fNqdnVT-C9cXlSzWnZ2dnUVZ_vidnZ2d@giganews.com>
<BoydnRNUD7GxtyzWnZ2dnUVZ_uudnZ2d@giganews.com>
<70e007f4-6767-4fba-9e95-0e01a827b56a@q23g2000yqd.googlegroups.com>
NNTP-Posting-Host: p6a0a9710e9a6e80ba181d7893ad62196a74007fbf4d04183.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
In-Reply-To: <70e007f4-6767-4fba-9e95-0e01a827b56a@q23g2000yqd.googlegroups.com>
X-Antivirus: avast! (VPS 100329-2, 03/29/2010), Outbound message
X-Antivirus-Status: Clean
Xref: g2news1.google.com rec.radio.amateur.homebrew:3290

JIMMIE wrote:
```

```
>
> Thanks guys, I found one transformer in my junk box that should work.
> As a matter of fact it is part of an audio phono preamp. Think I made
> need a couple more if this works out .
>
> Jimmie

Check Gary/PTOP at www.oldradioparts.com  I bought several like you
describe for small projects.

-Bill



From -7096970048493385073
X-Google-Thread: 241b302a50,670fc359edc163ab
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!npeer01.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
post02.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "Howard K0ACF" <howardk0acf@knology.net>
Newsgroups: rec.radio.amateur.homebrew
References: <e5ed7151-80be-4731-a305-5aa450502964@y17g2000yqd.googlegroups.com>
Subject: Re: Transformer
Date: Tue, 30 Mar 2010 00:03:34 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <8edd1$4bb18624$d8feea72$11737@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 15
X-Trace: 8edd14bb186247d5b4fd711737
Xref: g2news1.google.com rec.radio.amateur.homebrew:3291

Check Signal Transformer, they are sold by Digi-Key & many others. They make
some dual secondary that are very small but plenty of current for what you
are going to use it for. I used many of them in Progressive Systems for
Electronic Gaming Machines.
"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
news:e5ed7151-80be-4731-a305-5aa450502964@y17g2000yqd.googlegroups.com...
>I am looking for a source of a very small transformer that will supply
> 125 VAC on the secondary and enough 6.3 VAC with current for 1 or two
> small tubes. Something on the order of a 12AX7 or 2. Small physical
> size is important. I need to be able to shoehorn the whole thing
> inside of a double outlet box.
>
> Jimmie
```

```
From 4019900483927488849
X-Google-Thread: 241b302a50,670fc359edc163ab
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!j1g2000vbr.googlegroups.com!not-for-
mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer
Date: Tue, 30 Mar 2010 12:27:11 -0700 (PDT)
Organization: http://groups.google.com
Lines: 43
Message-ID: <cfbc8a90-a9a5-4bd9-9d9e-6fb7786fd6a1@j1g2000vbr.googlegroups.com>
References: <e5ed7151-80be-4731-a305-5aa450502964@y17g2000yqd.googlegroups.com>
     <8edd1$4bb18624$d8feea72$11737@KNOLOGY.NET>
NNTP-Posting-Host: 142.162.128.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269977231 24771 127.0.0.1 (30 Mar 2010 19:27:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 30 Mar 2010 19:27:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j1g2000vbr.googlegroups.com; posting-host=142.162.128.246;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6.4),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3292

On Mar 30, 2:03=A0am, "Howard K0ACF" <howardk0...@knology.net> wrote:
> Check Signal Transformer, they are sold by Digi-Key & many others. They m=
ake
> some dual secondary that are very small but plenty of current for what yo=
u
> are going to use it for. I used many of them in Progressive Systems for
> Electronic Gaming Machines."JIMMIE" <JIMMIEDEE...@YAHOO.COM> wrote in mes=
sage
>
> news:e5ed7151-80be-4731-a305-5aa450502964@y17g2000yqd.googlegroups.com...
>
>
>
> >I am looking for a source of a very small transformer that will supply
> > 125 VAC on the secondary and enough 6.3 VAC with current for 1 or two
> > small tubes. Something on the order of a 12AX7 or 2. Small physical
> > size is important. I need to be able to shoehorn the whole thing
> > inside of a double outlet box.
>
```

> > Jimmie- Hide quoted text -
>
> - Show quoted text -

Not clear on the OPs application but ....
12AX7 double triode takes 12.6 volts on its heater at IIRC 0.15 amps?
BTW 12.6/0.15 =3D 84 ohms (hot).
Another approach if circuit isolation permits it, is to 'drop' voltage
for the heater re-actively by using a capacitor.
If 125v AC is available?
For example 125 minus 12 =3D 113 volts to be 'dropped'.
The reactance of a capacitor rated for 'peak' voltage of around 180 -
200 volts; RMS =3D 120v.
113/0.15 =3D 750 ohms approx. (Since it's mainly reactive no need to get
into a vector diagram!).
Since Xc =3D 1/2pi.f.C A one microfarad cap. has a reactance of about
2650 ohms.
So 2650/750 =3D 3.5 microfarad (AC capable). In practice it'd probably
work with anything from 3 to 4 mfd. A not too unusual size of AC motor
cap is 3 mfd. But cap. size consideration.
Just floating an idea. Have only tried this on experimental basis but
it worked!
And IIRC it was a 12 volt surplus WWII tube that we used. The same AC
rectified, filtered with a capacitor, provided B+ for the experiment.

From 1013172341711362091
X-Google-Thread: fc2a5,94a49306a7f8d2be
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,94a49306a7f8d2be
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l18g2000prm.googlegroups.com!not-for-mail
From: huang xiang <hunag.jin@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: paypal wholesale all
brand(UGGBOOTS,SHOES,CLOTHES,HANDBAG,WATCH,JEANS,JERSEY,T-
SHIRT,SHIRTS,HOODY,EYEGLASS,CAP,SHAWL,WALLT)
     and so on.
Date: Wed, 31 Mar 2010 05:34:38 -0700 (PDT)
Organization: http://groups.google.com
Lines: 171
Message-ID: <83b2018c-970b-440e-9158-e7ab6fc3d771@l18g2000prm.googlegroups.com>
NNTP-Posting-Host: 218.87.11.137
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1270038878 25477 127.0.0.1 (31 Mar 2010 12:34:38 GMT)
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Injection-Info: l18g2000prm.googlegroups.com; posting-host=218.87.11.137;

```
     posting-account=C6AvEgoAAADxhWs7hLcI9A2OwRTcKsBV
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     QQPinyin 730; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3590
rec.puzzles.crosswords:7433

our MSN and email both are :people-trade@hotmail.com

(paypal payment)( http://picasaweb.google.com/peopletrade.shoes001/ )
wholesale Lacoste polo t
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(paypal payment)( http://picasaweb.google.com/peopletrade.shoes002/ )
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wholesale NBA sports jersey

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wholesale POLO 5 T-shirt
(paypal payment)(http://picasaweb.google.com/peopletrade.shoes002/)
wholesale POLO T-shirt men's

ARMANI,APE,BBC ,BOSS ,Burberry ,CA ,COOGI ,CRYSTAL ROCK ,D&G ,DIESEL ,DSQUARED,DSQUAREDEck,Unltd ,ED ,EVISU ,GGG ,G-STAR ,HLST ,Lacoste ,LRG ,O&Lm,POLO 3 ,4 ,POLO 5 ,POLO

From 1380335173939272415
X-Google-Thread: a4a23d5f63,5d207ca3a12c9152,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed2.dallas1.level3.net!news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1267426800@panix.com>
Followup-To: poster
Date: 1 Apr 2010 02:00:02 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 04 May 2010 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1270101601@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com (rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1270101603 8652 166.84.1.2 (1 Apr 2010 06:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 1 Apr 2010 06:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
Xref: g2news1.google.com rec.radio.amateur.antenna:15373 rec.radio.amateur.dx:588

rec.radio.amateur.equipment:1891 rec.radio.amateur.homebrew:3294
rec.radio.amateur.misc:4747 rec.radio.amateur.policy:25666
rec.radio.amateur.space:325 rec.radio.info:1340

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From 5062606742063559612
X-Google-Thread: 241b302a50,836f6b6b560de1db,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!g28g2000yqh.googlegroups.com!not-for-
mail
From: ttt9090 <timandterrijames@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 900MHz antenna help?
Date: Fri, 2 Apr 2010 05:45:00 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <9d53450b-51cc-47f1-9ff1-bc2881fb397e@g28g2000yqh.googlegroups.com>
NNTP-Posting-Host: 64.235.111.156
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1270212300 15643 127.0.0.1 (2 Apr 2010 12:45:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 2 Apr 2010 12:45:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g28g2000yqh.googlegroups.com; posting-host=64.235.111.156;
     posting-account=qxt-DwoAAABRIvfi-TK78j2zXEcTicmA
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
     3.5.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3592
```

Hi all,
This probably isn't the right place to post this, but I figure it may be the best place to find the experienced minds that may be able to help me with this litlle problem I have.

I need to source some antennas (to supply to someone I work with), and they must have the following specs:

870-900MHz
5 dB
RG58/U cable (at least 5 feet long)
RA-TNC (Male)
Magnetic mount

As for the cable and connectors, I can buy them separately I guess and assemble as required.
I have been getting PCTEL Maxrad ones that do the trick, but I'm having major supply issues (like 2 months wait time).

If anyone has an idea where I can find these things, or what else may work, I'd be very grateful for some pointers.
Thanks in advance

From -616819774037594165
X-Google-Thread: fc2a5,836f6b6b560de1db
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 02 Apr 2010 11:44:05 -0500
Date: Fri, 02 Apr 2010 11:38:38 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 900MHz antenna help?
References: <9d53450b-51cc-47f1-9ff1-bc2881fb397e@g28g2000yqh.googlegroups.com>
In-Reply-To: <9d53450b-51cc-47f1-9ff1-bc2881fb397e@g28g2000yqh.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Lb-dnWkNiqN7gyvWnZ2dnUVZ_rSdnZ2d@giganews.com>
Lines: 29
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-zbNgp/
Pz97TT6Csp4qmPa6KhIygShy3zL6dSTaw8jX3Ky2FSDY9nJeaLmOkljvJzWxdt0GyqzcrQUN0!
XHJJqb3pUnZeeM59TnTUNoJR8IbTcqRQqwZqg67iA20Imln/W5giLiFImldLOjXC6h8sWApqkDA=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3296

Mag mount, around 1 GHz with some gain?
Sounds like an active GPS antenna like those that sell around $25
on e.g. eBay

Brian W

ttt9090 wrote:
> Hi all,
> This probably isn't the right place to post this, but I figure it may
> be the best place to find the experienced minds that may be able to
> help me with this litlle problem I have.
>
> I need to source some antennas (to supply to someone I work with), and
> they must have the following specs:
>
> 870-900MHz
> 5 dB
> RG58/U cable (at least 5 feet long)

```
> RA-TNC (Male)
> Magnetic mount
>
> As for the cable and connectors, I can buy them separately I guess and
> assemble as required.
> I have been getting PCTEL Maxrad ones that do the trick, but I'm
> having major supply issues (like 2 months wait time).
>
> If anyone has an idea where I can find these things, or what else may
> work, I'd be very grateful for some pointers.
> Thanks in advance


From 3579108831191506544
X-Google-Thread: fc2a5,257d1b49b2391e96,start
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,257d1b49b2391e96,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h27g2000yqm.googlegroups.com!not-for-
mail
From: guccihandbag <hhhhhh87@yahoo.cn>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: Cheap wholesale FERRE goggle (http://www.brandtrade10.com
Date: Fri, 2 Apr 2010 19:33:17 -0700 (PDT)
Organization: http://groups.google.com
Lines: 57
Message-ID: <f04fd935-031e-4ac2-a1ad-05136d4c376a@h27g2000yqm.googlegroups.com>
NNTP-Posting-Host: 58.22.72.238
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1270261997 10200 127.0.0.1 (3 Apr 2010 02:33:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Apr 2010 02:33:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h27g2000yqm.googlegroups.com; posting-host=58.22.72.238;
     posting-account=QzDCVQoAAABCTEJ4DhYgkHKpSb6llhkL
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6.4; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3594
rec.puzzles.crosswords:7473

sunglasses:
Cheap wholesale ADIDAS Sunglass  (paypal payment http://www.brandtrade10.com/)
Cheap wholesale ARMANI Sunglass
Cheap wholesale Burberry Sunglass (http://www.brandtrade10.com/
free
shipping)
Cheap wholesale BVLGARL Sunglass
Cheap wholesale Cartier Sunglass  (paypal payment http://www.brandtrade10.com/)
Cheap wholesale CHANEL Sunglass
Cheap wholesale COACH Sunglass
Cheap wholesale D&G Sunglass  (paypal payment http://www.brandtrade10.com/)
Cheap wholesale DIESEL Sunglass
Cheap wholesale DIOR Sunglass
Cheap wholesale ED Hardy Sunglass  (http://www.brandtrade10.com/
free
shipping)
Cheap wholesale FENDI Sunglass
Cheap wholesale Ferragamo Sunglass  (paypal payment http://www.brandtrade10.com/)
Cheap wholesale GIVENCHY Sunglass
Cheap wholesale GUCCI Sunglass (http://www.brandtrade10.com/   free
shipping)
Cheap wholesale LV Sunglass
Cheap wholesale NIKE Sunglass  (paypal payment http://www.brandtrade10.com/)
Cheap wholesale Oakley Sunglass
Cheap wholesale POLICE Sunglass  (paypal payment http://www.brandtrade10.com/)
Cheap wholesale PRADA Sunglass
Cheap wholesale Ray.Ban Sunglass
Cheap wholesale ROBERTO CAVALLI Sunglass  (paypal payment
http://www.brandtrade10.com/)
Cheap wholesale Salvatore Sunglass
Cheap wholesale VERSACE Sunglass
Cheap wholesale YSL Sunglass
goggle:
(paypal payment http://www.brandtrade10.com/)(http://www.brandtrade10.com/
free
shipping)
Cheap wholesale Armani goggle
Cheap wholesale Catier goggle
Cheap wholesale Chanel goggle (http://www.brandtrade10.com/   free
shipping)
Cheap wholesale D&G goggle  (paypal payment http://www.brandtrade10.com/)
Cheap wholesale DIOR goggle
Cheap wholesale FENDI goggle
Cheap wholesale FERRE goggle (http://www.brandtrade10.com/   free
shipping)
Cheap wholesale FRED goggle
Cheap wholesale GUCCI goggle  (paypal payment http://www.brandtrade10.com/)
Cheap wholesale LV goggle
Cheap wholesale MONT BLANC goggle
Cheap wholesale NIKE goggle
Cheap wholesale Oakley goggle (http://www.brandtrade10.com/   free
shipping)
Cheap wholesale POLICE goggle
Cheap wholesale PRADA goggle  (paypal payment http://www.brandtrade10.com/)
Cheap wholesale PUMA goggle
Cheap wholesale RAY.BAN goggle
Cheap wholesale VERSACE goggle  (paypal payment http://www.brandtrade10.com/)


From -1865005547095206338
X-Google-Thread: fc2a5,baa6ad5cf0828cb2,start
X-Google-NewGroupId: yes
```

```
X-Google-Thread: 1108d7,baa6ad5cf0828cb2,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k19g2000yqn.googlegroups.com!not-for-
mail
From: guccihandbag <hhhhhh87@yahoo.cn>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: Cheap Wholesale Nike Air Max 2009 http://www.brandtrade10.com
Date: Fri, 2 Apr 2010 19:34:37 -0700 (PDT)
Organization: http://groups.google.com
Lines: 37
Message-ID: <0b0d7194-ca9c-46e7-a1e0-e14648b7ca03@k19g2000yqn.googlegroups.com>
NNTP-Posting-Host: 58.22.72.238
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1270262077 2356 127.0.0.1 (3 Apr 2010 02:34:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Apr 2010 02:34:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k19g2000yqn.googlegroups.com; posting-host=58.22.72.238;
     posting-account=QzDCVQoAAABCTEJ4DhYgkHKpSb6llhkL
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6.4; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3595
rec.puzzles.crosswords:7474


Cheap Wholesale Nike Air Max 87 http://www.brandtrade10.com/ free
shipping
Cheap Wholesale Nike Air Max 89 http://www.brandtrade10.com/ paypal
payment
Cheap Wholesale Nike Air Max 90 http://www.brandtrade10.com/ paypal
payment
Cheap Wholesale Nike Air Max 91 http://www.brandtrade10.com/ free
shipping
Cheap Wholesale Nike Air Max 92 Man http://www.brandtrade10.com/
paypal
payment
Cheap Wholesale Nike Air Max 93 http://www.brandtrade10.com/ paypal
payment
Cheap Wholesale Nike Air Max 95 http://www.brandtrade10.com/ free
shipping
Cheap Wholesale Nike Air Max 97 http://www.brandtrade10.com/ paypal
payment
Cheap Wholesale Nike Air Max 180 Man http://www.brandtrade10.com/
paypal
payment
Cheap Wholesale Nike Air Max 2006 http://www.brandtrade10.com/ paypal
payment
Cheap Wholesale Nike Air Max 2009 http://www.brandtrade10.com/ paypal
payment
```

```
Cheap Wholesale Nike Air Max Clssic BW http://www.brandtrade10.com/
free
shipping
Cheap Wholesale Nike Air Max LTD http://www.brandtrade10.com/ paypal
payment
Cheap Wholesale Nike Air Max Skyline http://www.brandtrade10.com/
paypal
payment
Cheap Wholesale Nike Air Max STAB http://www.brandtrade10.com/ free
shipping
Cheap Wholesale Nike Air Max Tailwind http://www.brandtrade10.com/
paypal


From -5414079641879442178
X-Google-Thread: 82c8fee960,a8c60c83a092dab2,start
X-Google-Attributes: gid82c8fee960,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z7g2000yqb.googlegroups.com!not-for-
mail
From: "www.brandtrade10.com" <nyhffdf6767@yahoo.cn>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: Hermes watch man watch stem-winder watch quartz watch battery watch
Date: Mon, 5 Apr 2010 05:32:52 -0700 (PDT)
Organization: http://groups.google.com
Lines: 29
Message-ID: <2da96dd4-13eb-454e-832f-c729f2371797@z7g2000yqb.googlegroups.com>
NNTP-Posting-Host: 58.22.148.173
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1270470772 9826 127.0.0.1 (5 Apr 2010 12:32:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 5 Apr 2010 12:32:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z7g2000yqb.googlegroups.com; posting-host=58.22.148.173;
     posting-account=urxWggoAAAAPi7BHi83T2cVifycq9CO_
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6.4; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3299
rec.puzzles.crosswords:6949

 Hermes watch man watch stem-winder watch quartz watch battery watch
paypal wholesale free shipping on http://www.brandtrade10.com/
  Bvlgari watch man watch stem-winder watch quartz watch battery watch
paypal wholesale free shipping on http://www.brandtrade10.com/
  Concord  watch man watch stem-winder watch quartz watch battery
watch paypal wholesale free shipping on http://www.brandtrade10.com/
  AP watch man watch stem-winder watch quartz watch battery watch
 Hermes watch man watch stem-winder watch quartz watch battery watch
paypal wholesale free shipping on http://www.brandtrade10.com/
  Bvlgari watch man watch stem-winder watch quartz watch battery watch
paypal wholesale free shipping on http://www.brandtrade10.com/
  Concord  watch man watch stem-winder watch quartz watch battery
watch paypal wholesale free shipping on http://www.brandtrade10.com/
  AP watch man watch stem-winder watch quartz watch battery watch
```

```
 Hermes watch man watch stem-winder watch quartz watch battery watch
paypal wholesale free shipping on http://www.brandtrade10.com/
  Bvlgari watch man watch stem-winder watch quartz watch battery watch
paypal wholesale free shipping on http://www.brandtrade10.com/
  Concord  watch man watch stem-winder watch quartz watch battery
watch paypal wholesale free shipping on http://www.brandtrade10.com/
  AP watch man watch stem-winder watch quartz watch battery watch
```

```
From -4505007160297802026
X-Google-Thread: fc2a5,baa6ad5cf0828cb2
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,baa6ad5cf0828cb2
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 06 Apr 2010 06:52:14 -0500
Date: Tue, 06 Apr 2010 06:46:22 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: non radio (was Cheap )
References: <0b0d7194-ca9c-46e7-a1e0-e14648b7ca03@k19g2000yqn.googlegroups.com>
In-Reply-To: <0b0d7194-ca9c-46e7-a1e0-e14648b7ca03@k19g2000yqn.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <KoydnYWLna3zvSbWnZ2dnUVZ_uszAAAA@giganews.com>
Lines: 2
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-nRAVKQqpo4mUAkT6F264w5rSVL8br6QAHtHmR/
sbMJzSGnq0z6iOyTXJzV5UIH871cxfzuP8p4p17Xp!
pnjDbIbs8dcaFPXMgOfTLqkMqu+TZFAJ8xYuP2tkqSCFyl1tJkt8O/gGRb9Fq6y9pE00GjpxYFs=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
```

```
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3597
rec.puzzles.crosswords:7508
```

guccihandbag wrote:

> Cheap Whol

```
From -862352356242081094
X-Google-Thread: 241b302a50,1940eb638f3decef
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.brightview.co.uk!news.brightview.co.uk.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 26 Feb 2010 16:54:15 -0600
From: "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <Id6hn.196047$0M5.137565@newsfe23.ams2>
Subject: Re: PSU problem help needed
Date: Fri, 26 Feb 2010 22:54:20 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <HPKdnbVW1vqKzBXWnZ2dnUVZ8uednZ2d@brightview.co.uk>
Lines: 16
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
VKf8qYmbFdJlyNgHhnKNt9bzsXobzv3wApkU62WZ3YCRJNbR6LWuYk4ZvknussV3xPFOgzlpdY8f32+!
qC+VldmQbRW3dXOKPTQRVm2yh0gx6h0iIbNYG85pcDb9cmYSzfQxz/QEpTXn0N5aBiVMD7wls5s6!
eG1aj/632a1DLtt1nFIyrglDlz8=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3145
```

Hi,

The noise is probably coming from the transformer. Try adjusting the fixings that hold the transformer in place. If that doesn't remedy the problem then take the transformer out and give the laminations a good knock with a mallet. Hit the sides and the top and bottom of the lams evenly and your noise should go away (or be worse HI). I used to do this all the time and it worked a treat.

73
JOHN

----
broadband for as little as �5.99/month
see www.wells10000.plus.com for info

From -5633786203605191822
X-Google-Thread: 241b302a50,1940eb638f3decef
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
cyclone01.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf01.ams.highwinds-media.com!newsfe16.ams2.POSTED!7564ea0f!not-for-mail
From: "Barett" <barett@blueyonder.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <Id6hn.196047$0M5.137565@newsfe23.ams2>
<HPKdnbVW1vqKzBXWnZ2dnUVZ8uednZ2d@brightview.co.uk>
Subject: Re: PSU problem help needed
Lines: 31
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <0w9in.92825$lB6.14101@newsfe16.ams2>
NNTP-Posting-Host: 94.169.121.99
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe16.ams2 1267278972 94.169.121.99 (Sat, 27 Feb 2010 13:56:12 UTC)
NNTP-Posting-Date: Sat, 27 Feb 2010 13:56:12 UTC
Organization: virginmedia.com
Date: Sat, 27 Feb 2010 13:56:13 -0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:3146

"John W" <jrw[no-spam-today-thank-you]@gmx.co.uk> wrote in message
news:HPKdnbVW1vqKzBXWnZ2dnUVZ8uednZ2d@brightview.co.uk...
> Hi,
>
> The noise is probably coming from the transformer. Try adjusting the
> fixings that hold the transformer in place. If that doesn't remedy the
> problem then take the transformer out and give the laminations a good
> knock with a mallet. Hit the sides and the top and bottom of the lams
> evenly and your noise should go away (or be worse HI). I used to do this
> all the time and it worked a treat.
>
> 73
> JOHN
> ---------------------------------------
> broadband for as little as �5.99/month
> see www.wells10000.plus.com for info
>

The fuse has now blown. I replaced the fuse and it blew again. Disconnected all secondary outputs and put a new fuse in and the transformer is working.

Put a test on the input mains current and its drawing 300mA with no load.

Had the transformer running for the past 4 hours and the transformer is to hot to touch. You can smell the heat coming from it.

Could it be the transformer at fault that caused some thing else to short and blow the fuse?

From 4213693385679810215
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 27 Feb 2010 16:28:52 -0600
Date: Sat, 27 Feb 2010 22:28:50 +0000
From: highlandham <highlandham.nospam@rfburns.eu>
User-Agent: Thunderbird 2.0.0.23 (X11/20100108)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PSU problem help needed
References: <Id6hn.196047$0M5.137565@newsfe23.ams2>
<HPKdnbVW1vqKzBXWnZ2dnUVZ8uednZ2d@brightview.co.uk>
<0w9in.92825$lB6.14101@newsfe16.ams2>
In-Reply-To: <0w9in.92825$lB6.14101@newsfe16.ams2>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Message-ID: <OoudnZNSH-g5ARTWnZ2dnUVZ7qmdnZ2d@pipex.net>
Lines: 52
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.110.157.35
X-Trace: sv3-
zh0CKj08ik2r98IprE0626Po7dHHeEOx2c8xeZUv7eK6ZOfrW3Z4L+ZuVphoZTFhPgztcr1IHwAzFDV!
Ny/6jW0CgLoj065tzRRNJwDjx/kIqOetpOB/YrV0Bdry8aaBfRzQXSb2/Mh7h6ibuDliaJzkXblE!
hQt1/4h6DpFjeWbAFe48DveHNw==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3147

Barett wrote:
> "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk> wrote in message
> news:HPKdnbVW1vqKzBXWnZ2dnUVZ8uednZ2d@brightview.co.uk...
>> Hi,

>>
>> The noise is probably coming from the transformer. Try adjusting the
>> fixings that hold the transformer in place. If that doesn't remedy the
>> problem then take the transformer out and give the laminations a good
>> knock with a mallet. Hit the sides and the top and bottom of the lams
>> evenly and your noise should go away (or be worse HI). I used to do this
>> all the time and it worked a treat.
>>
>> 73
>> JOHN
>> ---------------------------------------
>> broadband for as little as �5.99/month
>> see www.wells10000.plus.com for info
>>
>
> The fuse has now blown. I replaced the fuse and it blew again. Disconnected
> all secondary outputs and put a new fuse in and the transformer is working.
>
> Put a test on the input mains current and its drawing 300mA with no load.
>
> Had the transformer running for the past 4 hours and the transformer is to
> hot to touch. You can smell the heat coming from it.
>
> Could it be the transformer at fault that caused some thing else to short
> and blow the fuse?
>
>

==================================
Suggest you disconnect the secondary winding from the rectifier
,probably a square block with 4 connections bolted to the chassis.

with the secondary winding disconnected switch on and measure the
current in the primary winding as you did before .If still at the same
level and the transformer getting hot as before ,the transformer is
defective (check transformer output voltage;it should be more than 15 V)

If transformer remains cool and current is low (should be negligible)
and the transformer output is well above 15V ,the fault is either in the
rectifier or electrolytic capacitors.

Or fault is further 'down the line' in the pass transistors (if so ,they
are likely also hot) You can best find out by disconnecting successive
components down the line while keep checking the current in primary
winding and transformer output.

Good luck

Frank   GM0CSZ

From -2908691539660017025
X-Google-Thread: 241b302a50,ce45143bd25c471b,start
X-Google-Attributes: gid241b302a50,public,usenet

```
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!postnews.google.com!s36g2000prh.googlegroups.com!not-for-
mail
From: gfgfgf <resourts51@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: =?windows-1252?Q?Sexy_naked_Teacher=92s_body=92s_Photos?=
Date: Sun, 28 Feb 2010 12:39:31 -0800 (PST)
Organization: http://groups.google.com
Lines: 3
Message-ID: <f956b9de-2291-40ed-82d1-f722ea1a58db@s36g2000prh.googlegroups.com>
NNTP-Posting-Host: 221.120.250.106
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1267389572 25381 127.0.0.1 (28 Feb 2010 20:39:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 28 Feb 2010 20:39:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s36g2000prh.googlegroups.com; posting-host=221.120.250.106;
     posting-account=pbj2RwoAAACxcHqFIxNZKKyjBSm8IDM0
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
     SV1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3148

Sexy naked Teacher=92s body=92s Photos

http://beautiful-hot-girls-photo.blogspot.com


From -7378374851918102443
X-Google-Thread: a4a23d5f63,d20340964db25d8e,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1265007601@panix.com>
Followup-To: poster
Date: 1 Mar 2010 02:00:02 -0500
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Apr 2010 03:00:00 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1267426800@panix.com>
```

Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1267426802 10066 166.84.1.2 (1 Mar 2010 07:00:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 1 Mar 2010 07:00:02 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
Xref: g2news1.google.com rec.radio.amateur.antenna:14994 rec.radio.amateur.dx:566 rec.radio.amateur.equipment:1778 rec.radio.amateur.homebrew:3149 rec.radio.amateur.misc:4659 rec.radio.amateur.policy:25363 rec.radio.amateur.space:317 rec.radio.info:1259

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From 8754582961348963879
X-Google-Thread: 241b302a50,1940eb638f3decef
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!news.mixmin.net!
aioe.org!not-for-mail
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PSU problem help needed
Date: Mon, 01 Mar 2010 14:27:47 -0500
Organization: Aioe.org NNTP Server
Lines: 30
Message-ID: <fmmck-E25ED0.14274701032010@5ad64b5e.bb.sky.com>
References: <Id6hn.196047$0M5.137565@newsfe23.ams2>
<HPKdnbVW1vqKzBXWnZ2dnUVZ8uednZ2d@brightview.co.uk>
<0w9in.92825$lB6.14101@newsfe16.ams2>
NNTP-Posting-Host: 3Ti3Dkxr+aYbxTPPZ9kqwg.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: M2:kXKd:'RWOYDl{uZc`?lIp)JGp#{Wu!73$b9:+?s~%}Ay|,WvxTz{\^4AJh
        N>Vy`r;;jIzv<<vS,[g~;ir61gwO/"Ff8_<BmgGs~{wyfHZYW3=':3,2vO7fLZ0RO7PT
        &/'HNHm0?k/~s)P<fv_6SH>@nXU8{,j+xR(<OXVIKnd)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3150
```

In article <0w9in.92825$lB6.14101@newsfe16.ams2>,
 "Barett" <barett@blueyonder.co.uk> wrote:

> The fuse has now blown. I replaced the fuse and it blew again. Disconnected
> all secondary outputs and put a new fuse in and the transformer is working.

Barett-

Your original question was about a buzz. I think you now have a second problem now.

The buzz may be caused by "magnetostriction" in the laminated transformer core. This effect is the lengthening and shortening of the metal laminations in response to the 60 Hz magnetic field. The laminations slide across each other at a 60 Hz rate, resulting in a buzz. There may be a varnish coating on the laminations, that becomes viscous after getting hot. As others mentioned, the bolts holding the transformer together may have loosened, allowing the buzz to get worse over time. The buzz may bother you, but is probably not a problem otherwise.

When you say outputs are disconnected, do you mean you disconnected the transformer secondary wires, or that you just disconnected the IC-706? If just the IC-706, the radio may have a problem rather than the power supply. I understand the IC-706 final output transistor collectors are connected directly across the power supply and are not switched. If one happens to short, it would blow the fuse.

Fred
K4DII

From -5531073623391692708
X-Google-Thread: 241b302a50,1940eb638f3decef
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!cyclone02.ams2.highwinds-media.com!news.highwinds-media.com!npeersf01.ams.highwinds-media.com!newsfe24.ams2.POSTED!7564ea0f!not-for-mail
From: "Barett" <barett@blueyonder.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <Id6hn.196047$0M5.137565@newsfe23.ams2> <HPKdnbVW1vqKzBXWnZ2dnUVZ8uednZ2d@brightview.co.uk> <0w9in.92825$lB6.14101@newsfe16.ams2> <fmmck-E25ED0.14274701032010@5ad64b5e.bb.sky.com>
Subject: Re: PSU problem help needed
Lines: 48
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <KG3jn.104322$Np2.19307@newsfe24.ams2>
NNTP-Posting-Host: 94.169.121.99
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe24.ams2 1267517226 94.169.121.99 (Tue, 02 Mar 2010 08:07:06 UTC)
NNTP-Posting-Date: Tue, 02 Mar 2010 08:07:06 UTC
Organization: virginmedia.com
Date: Tue, 2 Mar 2010 08:07:13 -0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:3151

"Fred McKenzie" <fmmck@aol.com> wrote in message news:fmmck-E25ED0.14274701032010@5ad64b5e.bb.sky.com...
> In article <0w9in.92825$lB6.14101@newsfe16.ams2>,
> "Barett" <barett@blueyonder.co.uk> wrote:
>
>> The fuse has now blown. I replaced the fuse and it blew again.

>> Disconnected
>> all secondary outputs and put a new fuse in and the transformer is
>> working.
>
> Barett-
>
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> problem now.
>
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> transformer together may have loosened, allowing the buzz to get worse
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>
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> If just the IC-706, the radio may have a problem rather than the power
> supply. I understand the IC-706 final output transistor collectors are
> connected directly across the power supply and are not switched. If one
> happens to short, it would blow the fuse.
>
> Fred
> K4DII

With he 706 disconnected from the supply I put a new fuse and it blew. I then disconnected all the secondary wires from the transformer and put a new fuse in and it didn't blow.

I put the multi meter in series with the mains wire input to the transformer and I got a reading of 300mA with all wires disconnected from the secondary side of the transformer. I left the transformer switched on for a few hours the transformer got too hot to touch and I could smell the heat from it. This is the stage I'm up to at the moment Fred.

From -4347687333356145877
X-Google-Thread: 241b302a50,1940eb638f3decef
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 02 Mar 2010 06:43:47 -0600
Date: Tue, 02 Mar 2010 12:43:46 +0000

From: highlandham <highlandham.nospam@rfburns.eu>
User-Agent: Thunderbird 2.0.0.23 (X11/20100108)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PSU problem help needed
References: <Id6hn.196047$0M5.137565@newsfe23.ams2>
<HPKdnbVW1vqKzBXWnZ2dnUVZ8uednZ2d@brightview.co.uk>
<0w9in.92825$lB6.14101@newsfe16.ams2> <fmmck-E25ED0.14274701032010@5ad64b5e.bb.sky.com> <KG3jn.104322$Np2.19307@newsfe24.ams2>
In-Reply-To: <KG3jn.104322$Np2.19307@newsfe24.ams2>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <AtGdnX60PZeZlRDWnZ2dnUVZ8ludnZ2d@pipex.net>
Lines: 53
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.110.157.35
X-Trace:
sv3-3XgHWQpgBzKnLpavaUxFjL1SMNXFFat39jzRaS9kTkR5mTSeLipW0Wkr1HrJGfRRRVcyIOQBSFCCXl
V!Bh6UiF61O4cTBlnTt7vtoxLj6oVdvCGfrpUmTuv/B8GZ9roGpHktQ/QxmUFJW4GR5WRbKG0YTdux!
RFPMjIpJIlg4KdDjBNQNdAzcEw==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3152

Barett wrote:
> "Fred McKenzie" <fmmck@aol.com> wrote in message
> news:fmmck-E25ED0.14274701032010@5ad64b5e.bb.sky.com...
>> In article <0w9in.92825$lB6.14101@newsfe16.ams2>,
>> "Barett" <barett@blueyonder.co.uk> wrote:
>>
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>>> Disconnected
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>> transformer together may have loosened, allowing the buzz to get worse
>> over time. The buzz may bother you, but is probably not a problem
>> otherwise.
>>

```
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>> supply.  I understand the IC-706 final output transistor collectors are
>> connected directly across the power supply and are not switched.  If one
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>>
>> Fred
>> K4DII
>
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> fuse in and it didn't blow.
>
> I put the multi meter in series with the mains wire input to the transformer
> and I got a reading of 300mA with all wires disconnected from the secondary
> side of the transformer. I left the transformer switched on for a few hours
> the transformer got too hot to touch and I could smell the heat from it.
> This is the stage I'm up to at the moment Fred.
============================
With the secondary of the transformer not connected to anything and the
transformer primary winding drawing 300 mA and at 230V that means abt 70
Watts ,it follows that the transformer must be defective ;
possible an internal shortage due to failing insulation .
Indeed 70 Watts will heat up the transformer after a while up to a
'don't touch' level.

Frank   GM0CSZ / KN6WH


From -3657115767247617767
X-Google-Thread: 241b302a50,1940eb638f3decef
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!fu-berlin.de!uni-
berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PSU problem help needed
Date: 2 Mar 2010 14:57:27 GMT
Lines: 19
Message-ID: <slrnhoq9sk.2rri.bit-bucket@shell.config.com>
References: <Id6hn.196047$0M5.137565@newsfe23.ams2>
 <HPKdnbVW1vqKzBXWnZ2dnUVZ8uednZ2d@brightview.co.uk>
 <0w9in.92825$lB6.14101@newsfe16.ams2>
 <fmmck-E25ED0.14274701032010@5ad64b5e.bb.sky.com>
 <KG3jn.104322$Np2.19307@newsfe24.ams2>
Reply-To: If you must, <Reply_to@my.sig.adr>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: individual.net fuJ2xtsB0Yx8lsDk4xcJHA8eukm3QwQhSNVW+ir26Kk+sdhcxS
```

```
Cancel-Lock: sha1:HsVvuA26Rj/Yf36dbiWuuI3fIxk=
User-Agent: slrn/0.9.9p1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3153

On Tue, 2 Mar 2010 08:07:13 -0000, Barett wrote:
>
> With he 706 disconnected from the supply I put a new fuse and it blew. I
> then disconnected all the secondary wires from the transformer and put a new
> fuse in and it didn't blow.
>
> I put the multi meter in series with the mains wire input to the transformer
> and I got a reading of 300mA with all wires disconnected from the secondary
> side of the transformer. I left the transformer switched on for a few hours
> the transformer got too hot to touch and I could smell the heat from it.
> This is the stage I'm up to at the moment Fred.

Shorted windings -- probably in one of the secondary sections.

Jonesy
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    * Killfiling google & XXXXbanter.com: jonz.net/ng.htm


From 5606079960010231625
X-Google-Thread: 241b302a50,5d795d46c5d0513f,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!postnews.google.com!z10g2000prh.googlegroups.com!not-for-
mail
From: gfgfgf <resourts51@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: =?windows-1252?Q?Sexy_body=92s_naked_Medical_Girls_Photos?=
Date: Tue, 2 Mar 2010 15:00:05 -0800 (PST)
Organization: http://groups.google.com
Lines: 3
Message-ID: <46f3e24c-620a-43af-b682-1c31e3c7fead@z10g2000prh.googlegroups.com>
NNTP-Posting-Host: 221.120.250.102
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1267570805 7787 127.0.0.1 (2 Mar 2010 23:00:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 2 Mar 2010 23:00:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z10g2000prh.googlegroups.com; posting-host=221.120.250.102;
     posting-account=pbj2RwoAAACxcHqFIxNZKKyjBSm8IDM0
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
     SV1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3154
```

```
Sexy body=92s naked Medical Girls Photos

http://beautiful-hot-girls-photo.blogspot.com


From 3718162364316495558
X-Google-Thread: 241b302a50,eff460e2d7e2219b,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z1g2000prc.googlegroups.com!not-for-
mail
From: raja inal <rajainal1983@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Earth4Energy Blueprints for $27
Date: Thu, 4 Mar 2010 03:08:45 -0800 (PST)
Organization: http://groups.google.com
Lines: 9
Message-ID: <1a4dcb0f-4857-47f6-8439-c157d57e4dcb@z1g2000prc.googlegroups.com>
NNTP-Posting-Host: 174.133.108.173
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1267700925 9378 127.0.0.1 (4 Mar 2010 11:08:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 4 Mar 2010 11:08:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z1g2000prc.googlegroups.com; posting-host=174.133.108.173;
     posting-account=4_lOIwoAAAB-5K75dfOzCQ2dukD4NzX8
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.10)
     Gecko/2009042316 Firefox/3.0.10,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3155

Full Access To All Earth4Energy Videos
And Tutorials For Only $27.
http://earth-4energy-review.123probiz.com

Go Green :)

Hafifuddin
Supervisor
http://www.gogonai.info/?id=hafifuddin


From -976570202949428545
X-Google-Thread: 241b302a50,63d42f8e21983089,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g28g2000yqh.googlegroups.com!not-for-
mail
From: fitz <zeusrdx@yahoo.com>
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Magnetism is really -- WHAT?
Date: Thu, 4 Mar 2010 03:25:20 -0800 (PST)
Organization: http://groups.google.com
Lines: 13
Message-ID: <35c64233-b68f-42a7-ad1a-c9fda9b023ab@g28g2000yqh.googlegroups.com>
NNTP-Posting-Host: 204.116.183.33
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1267701921 32641 127.0.0.1 (4 Mar 2010 11:25:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 4 Mar 2010 11:25:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g28g2000yqh.googlegroups.com; posting-host=204.116.183.33;
     posting-account=A451vgoAAAByсJv5ugpkfX8QG96-xuRZ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0;
     Trident/4.0; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
     3.0.30618; yie8),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3156
```

Magnetism is really -- WHAT?

(click link)

http://www.amperefitz.com/lawrm.htm

Enjoy,

Fitz

```
From 5892842453134860502
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!a16g2000pre.googlegroups.com!not-for-
mail
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Magnetism is really -- WHAT?
Date: Fri, 5 Mar 2010 09:58:00 -0800 (PST)
Organization: http://groups.google.com
Lines: 15
Message-ID: <f02e697f-8add-4e68-9255-353f2d088ad1@a16g2000pre.googlegroups.com>
References: <35c64233-b68f-42a7-ad1a-c9fda9b023ab@g28g2000yqh.googlegroups.com>
NNTP-Posting-Host: 72.0.177.83
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1267811880 2214 127.0.0.1 (5 Mar 2010 17:58:00 GMT)
```

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 5 Mar 2010 17:58:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a16g2000pre.googlegroups.com; posting-host=72.0.177.83;
     posting-account=LQVNZAkAAAAHQ9vQRrCB-Qc9fLbREhw4
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2)
     Gecko/20100115 Firefox/3.6 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3157
```

On Mar 4, 3:25=A0am, fitz <zeus...@yahoo.com> wrote:
> Magnetism is really -- WHAT?
>
> (click link)
>
> http://www.amperefitz.com/lawrm.htm
>
> Enjoy,
>
> Fitz

Ok, now explain how and why a thermocouple works when it is a DEAD
short!

Paul

```
From -8911830823582403069
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o16g2000prh.googlegroups.com!not-for-
mail
From: sheva lavis <suberdes@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Earth4Energy Blueprints for $27
Date: Fri, 5 Mar 2010 20:02:38 -0800 (PST)
Organization: http://groups.google.com
Lines: 9
Message-ID: <2d5a4e2e-9ad0-444c-b9e8-b1b33b4be070@o16g2000prh.googlegroups.com>
NNTP-Posting-Host: 114.57.235.19
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1267848158 3468 127.0.0.1 (6 Mar 2010 04:02:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 6 Mar 2010 04:02:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o16g2000prh.googlegroups.com; posting-host=114.57.235.19;
     posting-account=JFSNkgkAAABUQJfnyOa3xgTK0YuWskqg
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.10)
     Gecko/2009042316 Firefox/3.0.10,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3158
```

Full Access To All Earth4Energy Videos

And Tutorials For Only $27.
http://earth-4energy-review.123probiz.com

Go Green :)

Molita
Supervisor
http://www.gogonai.info/?id=molita

```
From 3393401048203902506
X-Google-Thread: 241b302a50,63d42f8e21983089
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!33g2000yqj.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Magnetism is really -- WHAT?
Date: Sat, 6 Mar 2010 02:53:16 -0800 (PST)
Organization: http://groups.google.com
Lines: 18
Message-ID: <32ebad5b-babc-473f-bf64-51806a1381e7@33g2000yqj.googlegroups.com>
References: <35c64233-b68f-42a7-ad1a-c9fda9b023ab@g28g2000yqh.googlegroups.com>
NNTP-Posting-Host: 99.181.127.217
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1267872797 6611 127.0.0.1 (6 Mar 2010 10:53:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 6 Mar 2010 10:53:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 33g2000yqj.googlegroups.com; posting-host=99.181.127.217;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.21)
     Gecko/20090331 K-Meleon/1.5.3,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3159
```

On Mar 4, 6:25 am, fitz <zeus...@yahoo.com> wrote:

> Magnetism is really -- WHAT?
>
> (click link)
>
> http://www.amperefitz.com/lawrm.htm
>
> Enjoy,
>
> Fitz

Hey OM:

It's all just an illusion produced by the Higgs field, when you think about it.

73 OM
de n8zu

From 5292275336047957881
X-Google-Thread: 241b302a50,c20c19905610cc47,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!feeder.erje.net!feeder.eternal-september.org!eternal-september.org!.POSTED!not-for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: 2M Linear Amp for sale
Date: Sat, 06 Mar 2010 12:37:36 -0600
Organization: A noiseless patient Spider
Lines: 19
Message-ID: <hmu7d7$90s$3@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 6 Mar 2010 18:37:27 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-host="ilhoh7QFF7KRjlN9xz/5fw";
logging-data="9244"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX18M54etoWWC8mS2tqdAXvFq"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11) Gecko/20071127 Firefox/2.0.0.11
X-Accept-Language: en-us
Cancel-Lock: sha1:daapOP3XVT9GEcz6bLIeiFE51Zc=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3160

RF Concepts RFC2-117 linear 2M linear amp with GaAs FET receive
pre-amp. 143-149 MHz. 10 W in 170 W out. Similar to the Mirage now
advertised in QST for $330.

I'm asking $190 plus postage from Stillwater, MN.

It can be viewed at:

http://home.comcast.net/~hsknoll/site/?/photos/&PHPSESSID=29ec62ea0bf1fe4d25e318b011cf0bbf

or

http://tinyurl.com/yktwxpz

I can be reached at 651-426-4144.

Thanks

Henry

```
From 1508472727975104093
X-Google-Thread: a4a23d5f63,98d94df1cefa20fc,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!novia!news-out.readnews.com!
transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1265526300@panix.com>
Followup-To: poster
Date: 7 Mar 2010 02:05:00 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Apr 2010 03:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1267945500@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1267945505 28466 166.84.1.2 (7 Mar 2010 07:05:05 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 7 Mar 2010 07:05:05 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:15040 rec.radio.amateur.dx:572
rec.radio.amateur.equipment:1781 rec.radio.amateur.homebrew:3161
rec.radio.amateur.misc:4677 rec.radio.amateur.policy:25406 rec.radio.info:1280

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/
```

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information

bulletin formerly posted to rec.radio.amateur.* (and currently archived
at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |
rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

From -3158982904153376581
X-Google-Thread: 241b302a50,ac13a3b0bc7d9e09,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!feeder.news-service.com!feeder.erje.net!feeder.eternal-september.org!eternal-september.org!.POSTED!not-for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Alliance Tenna-Rotor for sale
Date: Tue, 09 Mar 2010 09:36:12 -0600
Organization: A noiseless patient Spider
Lines: 15
Message-ID: <hn5pt9$sr9$3@news.eternal-september.org>

```
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Tue, 9 Mar 2010 15:36:09 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-host="ilhoh7QFF7KRjlN9xz/
5fw";
     logging-data="29545"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX194lNOdPMKQ4pyXICpDAp+J"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11) Gecko/
20071127 Firefox/2.0.0.11
X-Accept-Language: en-us
Cancel-Lock: sha1:f42MbSM7fwWWkDNXyYF3cw474fg=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3162

I have an Alliance Tenna-Rotor model T-20 with control box for sale.
It has about 87 feet of 4 conductor cable that goes with it.  It can
be viewed at:

http://home.comcast.net/~hsknoll/site/?/photos/
&PHPSESSID=29ec62ea0bf1fe4d25e318b011cf0bbf

or

http://tinyurl.com/yktwxpz

I'm asking $50 plus shipping CUS.

Thanks

Henry


From -2263860458967821281
X-Google-Thread: 241b302a50,fd5e01d0e4b1d433,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
feeder.eternal-september.org!eternal-september.org!.POSTED!not-for-mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: This NG doesn't seem to be accepting any of my postings.
Date: Tue, 9 Mar 2010 20:24:21 +0000
Organization: A noiseless patient Spider
Lines: 4
Message-ID: <aAQz7zF15qlLFw9J@g3ohx.demon.co.uk>
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
Injection-Date: Tue, 9 Mar 2010 20:24:31 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-host="1Z/
M1oM6JVqBnMi2uYI0kA";
     logging-data="27384"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19k9EUoIf5ZxJFf7GqTMTlK7X2sJGi3+8o="
```

```
User-Agent: Turnpike/6.06-S (<AMQqW+uIKPT+tOCjiGPoecgwqe>)
Cancel-Lock: sha1:t7D6r92bNzxqyHwg3HiKzy3mDF4=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3163

The last few of my postings (even when repeated) have failed to appear
in this NG. Just trying again to see if this test post appears.
--
Ian



From 6385933039350392996
X-Google-Thread: 241b302a50,fd5e01d0e4b1d433
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
feeder.eternal-september.org!eternal-september.org!.POSTED!not-for-mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: This NG doesn't seem to be accepting any of my postings.
Date: Tue, 9 Mar 2010 20:29:13 +0000
Organization: A noiseless patient Spider
Lines: 8
Message-ID: <4A77LlHZ+qlLFwYa@g3ohx.demon.co.uk>
References: <aAQz7zF15qlLFw9J@g3ohx.demon.co.uk>
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
Injection-Date: Tue, 9 Mar 2010 20:29:21 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-host="1Z/
M1oM6JVqBnMi2uYI0kA";
     logging-data="29408"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+5Ua6tHcphcqnit569S0TsZgpRdnSVfaw="
User-Agent: Turnpike/6.06-S (<HzQqWCtPKPTCRPCjBBCoeAczy7>)
Cancel-Lock: sha1:oIw/enI6jsu1ZPj7mrNO4V3b3k4=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3164

In message <aAQz7zF15qlLFw9J@g3ohx.demon.co.uk>, Ian Jackson
<ianREMOVETHISjackson@g3ohx.demon.co.uk> writes
>The last few of my postings (even when repeated) have failed to appear
>in this NG. Just trying again to see if this test post appears.

Interesting. This one worked as it should. Test completed.
--
Ian



From 5345340720623147517
X-Google-Thread: 241b302a50,fd5e01d0e4b1d433
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
news2.arglkargh.de!news.karotte.org!fu-berlin.de!uni-berlin.de!individual.net!not-
```

```
for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: This NG doesn't seem to be accepting any of my postings.
Date: 9 Mar 2010 21:11:59 GMT
Lines: 5
Message-ID: <slrnhpdef9.2o5.bit-bucket@shell.config.com>
References: <aAQz7zF15qlLFw9J@g3ohx.demon.co.uk>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: individual.net jSwF0Wd1XAHwDIv3cZP7MQhSZfuOE8n1QUgTLWJWV94P4B6K5L
Cancel-Lock: sha1:YCRQNlt3KzIYG8/mvP2Re2UKcwg=
User-Agent: slrn/0.9.9p1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3165

On Tue, 9 Mar 2010 20:24:21 +0000, Ian Jackson wrote:
> The last few of my postings (even when repeated) have failed to appear
> in this NG. Just trying again to see if this test post appears.

You're correct.  It never showed up here.



From -9092396530084415142
X-Google-Thread: 241b302a50,fd5e01d0e4b1d433
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!feeder.eternal-september.org!eternal-september.org!.POSTED!not-
for-mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: This NG doesn't seem to be accepting any of my postings.
Date: Tue, 9 Mar 2010 21:31:23 +0000
Organization: A noiseless patient Spider
Lines: 11
Message-ID: <CmXVCWYr4rlLFwMx@g3ohx.demon.co.uk>
References: <aAQz7zF15qlLFw9J@g3ohx.demon.co.uk>
 <slrnhpdef9.2o5.bit-bucket@shell.config.com>
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
Injection-Date: Tue, 9 Mar 2010 21:31:29 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-host="1Z/
M1oM6JVqBnMi2uYI0kA";
     logging-data="24928"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/dM6Sjk1VHd/ZuQC5O3rAd+pR1EiRacLc="
User-Agent: Turnpike/6.06-S (<XaSqWmv$KPTi2PCjPBLoeA551I>)
Cancel-Lock: sha1:4bdZ/JQNUNlLi0n3yohxJCqne3U=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3166

In message <slrnhpdef9.2o5.bit-bucket@shell.config.com>, Allodoxaphobia
```

```
<bit-bucket@config.com> writes
>On Tue, 9 Mar 2010 20:24:21 +0000, Ian Jackson wrote:
>> The last few of my postings (even when repeated) have failed to appear
>> in this NG. Just trying again to see if this test post appears.
>
>You're correct.  It never showed up here.

You're tempting me to try again, aren't you? I'm not fooled THAT easily.
--
Ian



From 7306654680919085722
X-Google-Thread: 241b302a50,fd5e01d0e4b1d433
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!192.71.180.34.MISMATCH!newsfeed1.swip.net!uio.no!fnord.no!
news0.firedrake.org!not-for-mail
From: mikea <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: This NG doesn't seem to be accepting any of my postings.
Date: Tue, 9 Mar 2010 15:42:48 -0600
Organization: Firedrake Synthesis
Lines: 18
Message-ID: <ovri67-mkf1.ln1@mikea.ath.cx>
References: <aAQz7zF15qlLFw9J@g3ohx.demon.co.uk> <slrnhpdef9.2o5.bit-
bucket@shell.config.com> <CmXVCWYr4rlLFwMx@g3ohx.demon.co.uk>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: parhelion.firedrake.org 1268170761 26590 70.164.65.62 (9 Mar 2010
21:39:21 GMT)
X-Complaints-To: usenet@parhelion.firedrake.org
NNTP-Posting-Date: Tue, 9 Mar 2010 21:39:21 +0000 (UTC)
X-Not-Approved: idees@videotron.qc.ca-is-a-troll
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (FreeBSD/7.1-RELEASE (i386))
Xref: g2news1.google.com rec.radio.amateur.homebrew:3167

Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote in
<CmXVCWYr4rlLFwMx@g3ohx.demon.co.uk>:
> In message <slrnhpdef9.2o5.bit-bucket@shell.config.com>, Allodoxaphobia
> <bit-bucket@config.com> writes
>>On Tue, 9 Mar 2010 20:24:21 +0000, Ian Jackson wrote:
>>> The last few of my postings (even when repeated) have failed to appear
>>> in this NG. Just trying again to see if this test post appears.
>>
>>You're correct.  It never showed up here.
>
> You're tempting me to try again, aren't you? I'm not fooled THAT easily.

So what did you change to make _these_ posts appear?

--
```

```
Of course, if you're writing the code to control a cruise missile, you
may not actually need an explicit loop exit.  The loop will be
terminated automatically at the appropriate moment.
                         -Programming Perl, 3rd Ed.



From 5228475299849066030
X-Google-Thread: 82c8fee960,94a49306a7f8d2be,start
X-Google-Attributes: gid82c8fee960,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!b9g2000pri.googlegroups.com!not-for-
mail
From: world-trade <jia.zhao12@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: paypal wholesale all
brand(UGGBOOTS,SHOES,CLOTHES,HANDBAG,WATCH,JEANS,JERSEY,T-
SHIRT,SHIRTS,HOODY,EYEGLASS,CAP,SHAWL,WALLT)
     and so on.
Date: Tue, 9 Mar 2010 18:52:56 -0800 (PST)
Organization: http://groups.google.com
Lines: 14
Message-ID: <4b2841d0-3614-423e-8427-b190a8fd47cf@b9g2000pri.googlegroups.com>
NNTP-Posting-Host: 222.77.237.145
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1268189576 24065 127.0.0.1 (10 Mar 2010 02:52:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 10 Mar 2010 02:52:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b9g2000pri.googlegroups.com; posting-host=222.77.237.145;
     posting-account=3Y2QegoAAADZclERye2OYnYjsmB53az3
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT
     5.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3168
rec.puzzles.crosswords:6758

paypal payment wholesale all brand
shoes(NIKE,ADIDAS,LV,GUCCI,CHANEL,PRADA,POLO,UGG BOOTS,D&G,DIOR )and
so on.
paypal payment wholesale all brand clothing(T-
SHIRT,JEANS,JERSEY,HOODIES,JACKETS,HARDY,SWEATER,SHIRTS )and so on .
http://www.brandmarket06.com
paypal payment all brand
watch(ROLEX,OMEGA,CHANEL,LV,CARTIER,IWC,GUCCI,RADO )and so on.
paypal payment all brand
handbag(LV,GUCCI,CHANEL,PRADA,POLO,COACH,FENDI,CHLOE,BUBERRY,JUICY)
and so on.
paypal payment brand CAP,SHAWL,BELT,WALLET,UNDER WEAR)and so on.

More detail land,address:   http://www.brandmarket06.com
```

```
From -1960263010637471651
X-Google-Thread: 241b302a50,fd5e01d0e4b1d433
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder2.cambriumusenet.nl!
feed.tweaknews.nl!195.96.0.7.MISMATCH!newsfeed.utanet.at!news.mixmin.net!aioe.org!
not-for-mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: This NG doesn't seem to be accepting any of my postings.
Date: Wed, 10 Mar 2010 15:40:06 +0000
Organization: Aioe.org NNTP Server
Lines: 23
Message-ID: <hjoNztOW17lLFwpm@g3ohx.demon.co.uk>
References: <aAQz7zF15qlLFw9J@g3ohx.demon.co.uk>
 <slrnhpdef9.2o5.bit-bucket@shell.config.com>
 <CmXVCWYr4rlLFwMx@g3ohx.demon.co.uk> <ovri67-mkf1.ln1@mikea.ath.cx>
NNTP-Posting-Host: 8ScIRg/PZPLSC4RDtCvRow.user.speranza.aioe.org
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Complaints-To: abuse@aioe.org
X-Notice: Filtered by postfilter v. 0.8.2
User-Agent: Turnpike/6.06-S (<XBXqWK77KPDzaPCj+RCoeAVsmk>)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3169

In message <ovri67-mkf1.ln1@mikea.ath.cx>, mikea <mikea@mikea.ath.cx>
writes
>Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote in
><CmXVCWYr4rlLFwMx@g3ohx.demon.co.uk>:
>> In message <slrnhpdef9.2o5.bit-bucket@shell.config.com>, Allodoxaphobia
>> <bit-bucket@config.com> writes
>>>On Tue, 9 Mar 2010 20:24:21 +0000, Ian Jackson wrote:
>>>> The last few of my postings (even when repeated) have failed to appear
>>>> in this NG. Just trying again to see if this test post appears.
>>>
>>>You're correct.  It never showed up here.
>>
>> You're tempting me to try again, aren't you? I'm not fooled THAT easily.
>
>So what did you change to make _these_ posts appear?
>
Well....
Last week, I 'failed to get through' using the Demon, Eternal-September
and AIOE news servers. This time, E-S was successful. However, I
switched to Demon to reply to Mikea's posting, and nothing has appeared.
This one is using AIOE. If this fails, I'll try E-S again.
--
Ian


From 5550984014570453000
```

```
X-Google-Thread: 241b302a50,fd5e01d0e4b1d433
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
news.mixmin.net!feeder.eternal-september.org!eternal-september.org!.POSTED!not-
for-mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: This NG doesn't seem to be accepting any of my postings.
Date: Wed, 10 Mar 2010 16:18:48 +0000
Organization: A noiseless patient Spider
Lines: 27
Message-ID: <8B3qLqZoZ8lLFwYt@g3ohx.demon.co.uk>
References: <aAQz7zF15qlLFw9J@g3ohx.demon.co.uk>
 <slrnhpdef9.2o5.bit-bucket@shell.config.com>
 <CmXVCWYr4rlLFwMx@g3ohx.demon.co.uk> <ovri67-mkf1.ln1@mikea.ath.cx>
 <hjoNztOW17lLFwpm@g3ohx.demon.co.uk>
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
Injection-Date: Wed, 10 Mar 2010 16:19:03 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-host="1Z/
M1oM6JVqBnMi2uYI0kA";
     logging-data="7258"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/cdtV6bqBsBtMHjAwGDe0kJjnEtC/Q3KE="
User-Agent: Turnpike/6.06-S (<nEQqWenLKPz2dPCjihHoeACwKp>)
Cancel-Lock: sha1:tQZgpxkPxvO+bFKqFi1R0sXhGT4=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3170

In message <hjoNztOW17lLFwpm@g3ohx.demon.co.uk>, Ian Jackson
<ianREMOVETHISjackson@g3ohx.demon.co.uk> writes
>In message <ovri67-mkf1.ln1@mikea.ath.cx>, mikea <mikea@mikea.ath.cx>
>writes
>>Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote in
>><CmXVCWYr4rlLFwMx@g3ohx.demon.co.uk>:
>>> In message <slrnhpdef9.2o5.bit-bucket@shell.config.com>, Allodoxaphobia
>>> <bit-bucket@config.com> writes
>>>>On Tue, 9 Mar 2010 20:24:21 +0000, Ian Jackson wrote:
>>>>> The last few of my postings (even when repeated) have failed to appear
>>>>> in this NG. Just trying again to see if this test post appears.
>>>>
>>>>You're correct.  It never showed up here.
>>>
>>> You're tempting me to try again, aren't you? I'm not fooled THAT easily.
>>
>>So what did you change to make _these_ posts appear?
>>
>Well....
>Last week, I 'failed to get through' using the Demon, Eternal-September
>and AIOE news servers. This time, E-S was successful. However, I
>switched to Demon to reply to Mikea's posting, and nothing has
>appeared. This one is using AIOE. If this fails, I'll try E-S again.
```

```
Nope. Demon posts don't appear. Back E-S.
--
Ian


From -3902101025170473424
X-Google-Thread: fc2a5,63d42f8e21983089
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g28g2000prb.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Magnetism is really -- WHAT?
Date: Wed, 10 Mar 2010 23:02:27 -0800 (PST)
Organization: http://groups.google.com
Lines: 14
Message-ID: <c1135a2d-0d50-4adc-bb45-bb4880c832d4@g28g2000prb.googlegroups.com>
References: <35c64233-b68f-42a7-ad1a-c9fda9b023ab@g28g2000yqh.googlegroups.com>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1268290947 25959 127.0.0.1 (11 Mar 2010 07:02:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 11 Mar 2010 07:02:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g28g2000prb.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.8)
     Gecko/20100202 Firefox/3.5.8 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3468

On Mar 4, 3:25=A0am, fitz <zeus...@yahoo.com> wrote:
> Magnetism is really -- WHAT?
>
> (click link)
>
> http://www.amperefitz.com/lawrm.htm
>
> Enjoy,
>
> Fitz

Oh, I get it.  You're hard-up to sell a bunch of books you can't get
rid of any other way.  And I was wondering what this all had to do
with r.r.a.h.  I guess about as much as counterfeit Rolexes.


From 5804800719118138255
X-Google-Thread: fc2a5,fd5e01d0e4b1d433
```

```
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!x23g2000prd.googlegroups.com!not-for-
mail
From: Stuart Longland VK4MSL <me@vk4msl.yi.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: This NG doesn't seem to be accepting any of my postings.
Date: Thu, 11 Mar 2010 13:55:39 -0800 (PST)
Organization: http://groups.google.com
Lines: 15
Message-ID: <1f2f7ded-c389-4f78-93a3-e0efbd574780@x23g2000prd.googlegroups.com>
References: <aAQz7zF15qlLFw9J@g3ohx.demon.co.uk> <slrnhpdef9.2o5.bit-
bucket@shell.config.com>
     <CmXVCWYr4rlLFwMx@g3ohx.demon.co.uk> <ovri67-mkf1.ln1@mikea.ath.cx>
     <hjoNztOW17lLFwpm@g3ohx.demon.co.uk> <8B3qLqZoZ8lLFwYt@g3ohx.demon.co.uk>
NNTP-Posting-Host: 123.211.6.240
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1268344539 23877 127.0.0.1 (11 Mar 2010 21:55:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 11 Mar 2010 21:55:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x23g2000prd.googlegroups.com; posting-host=123.211.6.240;
     posting-account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.2)
     Gecko/20100115 Firefox/3.6 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3469

On Mar 11, 2:18=A0am, Ian Jackson
<ianREMOVETHISjack...@g3ohx.demon.co.uk> wrote:
> In message <hjoNztOW17lLF...@g3ohx.demon.co.uk>, Ian Jackson
> <ianREMOVETHISjack...@g3ohx.demon.co.uk> writes
>
> Nope. Demon posts don't appear. Back E-S.
> --
> Ian

I hear your pain... I used to have a good newsgroup server provided by
my ISP (news.gil.com.au)... however that stopped talking to me a while
ago, and I've since resorted to Google Groups, which while usable, I'd
much rather use NNTP directly.

Anyone know of a decent newsgroup server that is open-access?


From 9217529289963887433
X-Google-Thread: fc2a5,fd5e01d0e4b1d433
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
```

```
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
newsfeed.straub-nv.de!feeder.eternal-september.org!eternal-september.org!.POSTED!
not-for-mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: This NG doesn't seem to be accepting any of my postings.
Date: Thu, 11 Mar 2010 22:23:14 +0000
Organization: A noiseless patient Spider
Lines: 28
Message-ID: <nOKcY1OS1WmLFwiB@g3ohx.demon.co.uk>
References: <aAQz7zF15qlLFw9J@g3ohx.demon.co.uk>
 <slrnhpdef9.2o5.bit-bucket@shell.config.com>
 <CmXVCWYr4rlLFwMx@g3ohx.demon.co.uk> <ovri67-mkf1.ln1@mikea.ath.cx>
 <hjoNztOW17lLFwpm@g3ohx.demon.co.uk> <8B3qLqZoZ8lLFwYt@g3ohx.demon.co.uk>
 <1f2f7ded-c389-4f78-93a3-e0efbd574780@x23g2000prd.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain;charset=iso-8859-1;format=flowed
Content-Transfer-Encoding: 8bit
Injection-Date: Thu, 11 Mar 2010 22:23:23 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-host="1Z/
M1oM6JVqBnMi2uYI0kA";
     logging-data="1726"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18ylTeHOzZ8vzXeOz1iVtKHMyRslkapYbY="
User-Agent: Turnpike/6.06-S (<HbdqWibPKPDhxPCjTRIoeA8FJm>)
Cancel-Lock: sha1:2mF9BEY4uP1G9vcKO6YdledGHcg=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3173

In message
<1f2f7ded-c389-4f78-93a3-e0efbd574780@x23g2000prd.googlegroups.com>,
Stuart Longland VK4MSL <me@vk4msl.yi.org> writes
>On Mar 11, 2:18�am, Ian Jackson
><ianREMOVETHISjack...@g3ohx.demon.co.uk> wrote:
>> In message <hjoNztOW17lLF...@g3ohx.demon.co.uk>, Ian Jackson
>> <ianREMOVETHISjack...@g3ohx.demon.co.uk> writes
>>
>> Nope. Demon posts don't appear. Back E-S.
>> --
>> Ian
>
>I hear your pain... I used to have a good newsgroup server provided by
>my ISP (news.gil.com.au)... however that stopped talking to me a while
>ago, and I've since resorted to Google Groups, which while usable, I'd
>much rather use NNTP directly.
>
>Anyone know of a decent newsgroup server that is open-access?

Well, Eternal September (was Motzarella) and AIOE are my 'backup' news
servers. Both are free. With E-S, you simply sign up. With AIOE, you
don't even have to do that - just change the name of your news server to
'nttp.aioe.org' (at least in Demon's 'Turnpike' news client). However,
neither allow binaries so, for NGs like
alt.binaries.schematics.electronic, I have to stick to Demon's own
server.
```

--
Ian

From -1166637688899994969
X-Google-Thread: fc2a5,fd5e01d0e4b1d433
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Joerg <invalid@invalid.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: This NG doesn't seem to be accepting any of my postings.
Date: Thu, 11 Mar 2010 18:05:27 -0800
Organization: Consultant
Lines: 37
Message-ID: <7vtlriFs47U1@mid.individual.net>
References: <aAQz7zF15qlLFw9J@g3ohx.demon.co.uk> <slrnhpdef9.2o5.bit-bucket@shell.config.com> <CmXVCWYr4rlLFwMx@g3ohx.demon.co.uk> <ovri67-mkf1.ln1@mikea.ath.cx> <hjoNztOW17lLFwpm@g3ohx.demon.co.uk> <8B3qLqZoZ8lLFwYt@g3ohx.demon.co.uk> <1f2f7ded-c389-4f78-93a3-e0efbd574780@x23g2000prd.googlegroups.com>
Reply-To: news@analogconsultants.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: individual.net LmxgwFc+dMAm5vGkAE7d0wRXv4TWU2i4vzAO7R7ckj0pKNNr/c
Cancel-Lock: sha1:1dJ/JVS2H+X3Gp25X8xCO+w6j/U=
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
In-Reply-To: <1f2f7ded-c389-4f78-93a3-e0efbd574780@x23g2000prd.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:3174

Stuart Longland VK4MSL wrote:
> On Mar 11, 2:18 am, Ian Jackson
> <ianREMOVETHISjack...@g3ohx.demon.co.uk> wrote:
>> In message <hjoNztOW17lLF...@g3ohx.demon.co.uk>, Ian Jackson
>> <ianREMOVETHISjack...@g3ohx.demon.co.uk> writes
>>
>> Nope. Demon posts don't appear. Back E-S.
>> --
>> Ian
>
> I hear your pain... I used to have a good newsgroup server provided by
> my ISP (news.gil.com.au)... however that stopped talking to me a while
> ago, and I've since resorted to Google Groups, which while usable, I'd
> much rather use NNTP directly.
>
> Anyone know of a decent newsgroup server that is open-access?

Open access ones often become spam sources and are then blocked by other
news servers, especially those still run by ISPs. Then posts don't show

up, or only some people can see them. That can become frustrating.

After my ISP dropped Usenet (hurumph ... grumble ...) I signed up with
news.individual.de and all was well again. Ok, not free but it costs
only 10 Euros per year. It's in Germany yet they signed me up even
though I live in the US. No binaries though. This is their registration
page in English:

http://news.individual.net/index.php

--
Regards, Joerg

http://www.analogconsultants.com/

"gmail" domain blocked because of excessive spam.
Use another domain or send PM.

From 3448477803554571689
X-Google-Thread: 241b302a50,fd5e01d0e4b1d433
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: This NG doesn't seem to be accepting any of my postings.
Date: 12 Mar 2010 02:15:11 GMT
Lines: 17
Message-ID: <slrnhpj8vt.1vmu.bit-bucket@shell.config.com>
References: <aAQz7zF15qlLFw9J@g3ohx.demon.co.uk>
 <slrnhpdef9.2o5.bit-bucket@shell.config.com>
 <CmXVCWYr4rlLFwMx@g3ohx.demon.co.uk> <ovri67-mkf1.ln1@mikea.ath.cx>
 <hjoNztOW17lLFwpm@g3ohx.demon.co.uk> <8B3qLqZoZ8lLFwYt@g3ohx.demon.co.uk>
 <1f2f7ded-c389-4f78-93a3-e0efbd574780@x23g2000prd.googlegroups.com>
 <7vtlriFs47U1@mid.individual.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: individual.net lSryOtuBczOeFXh3fVo+5w9wz8GTpKgCIITxKYS7JaZRgMVveC
Cancel-Lock: sha1:1Rv1YFP5KCE/IcleiJOuOcGAzT0=
User-Agent: slrn/0.9.9p1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3175

On Thu, 11 Mar 2010 18:05:27 -0800, Joerg wrote:
>
> After my ISP dropped Usenet (hurumph ... grumble ...) I signed up with
> news.individual.de and all was well again. Ok, not free but it costs
> only 10 Euros per year. It's in Germany yet they signed me up even
> though I live in the US. No binaries though. This is their registration
> page in English:

```
>
> http://news.individual.net/index.php

Recommeded.  I've been with'em for just shy of ten years now.

Jonesy
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    * Killfiling google & XXXXbanter.com: jonz.net/ng.htm


From 8195565356305374
X-Google-Thread: fc2a5,fd5e01d0e4b1d433
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!xlned.com!
feeder1.xlned.com!newsfeed.freenet.de!bolzen.all.de!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Joerg <invalid@invalid.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: This NG doesn't seem to be accepting any of my postings.
Date: Fri, 12 Mar 2010 08:03:54 -0800
Organization: Consultant
Lines: 26
Message-ID: <7vv6viFklpU1@mid.individual.net>
References: <aAQz7zF15qlLFw9J@g3ohx.demon.co.uk> <slrnhpdef9.2o5.bit-
bucket@shell.config.com> <CmXVCWYr4rlLFwMx@g3ohx.demon.co.uk> <ovri67-
mkf1.ln1@mikea.ath.cx> <hjoNztOW17lLFwpm@g3ohx.demon.co.uk>
<8B3qLqZoZ8lLFwYt@g3ohx.demon.co.uk> <1f2f7ded-c389-4f78-93a3-
e0efbd574780@x23g2000prd.googlegroups.com> <7vtlriFs47U1@mid.individual.net>
<slrnhpj8vt.1vmu.bit-bucket@shell.config.com>
Reply-To: news@analogconsultants.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: individual.net TBOKhG9yj61Us72oF9K12gP+NxV7ZJifNQfM/5qnYjJF4rSr1y
Cancel-Lock: sha1:/7bXFYG8lHt0vDUM4oW3L84OhoQ=
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
In-Reply-To: <slrnhpj8vt.1vmu.bit-bucket@shell.config.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3473

Allodoxaphobia wrote:
> On Thu, 11 Mar 2010 18:05:27 -0800, Joerg wrote:
>> After my ISP dropped Usenet (hurumph ... grumble ...) I signed up with
>> news.individual.de and all was well again. Ok, not free but it costs
>> only 10 Euros per year. It's in Germany yet they signed me up even
>> though I live in the US. No binaries though. This is their registration
>> page in English:
>>
>> http://news.individual.net/index.php
>
```

```
> Recommeded.  I've been with'em for just shy of ten years now.
>

I haven't tried it myself (yet) but I heard that it may be possible to
pay the small usage fee for several years in advance. That would cut
down on wire fees as banks typically charge them for every single
transaction regardless how small. Not sure how PayPal would work, I
don't have that.

--
Regards, Joerg

http://www.analogconsultants.com/

"gmail" domain blocked because of excessive spam.
Use another domain or send PM.


From -6540672651449519265
X-Google-Thread: fc2a5,fd5e01d0e4b1d433
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: This NG doesn't seem to be accepting any of my postings.
Date: 12 Mar 2010 22:41:27 GMT
Lines: 27
Message-ID: <slrnhplgr6.1ubb.bit-bucket@shell.config.com>
References: <aAQz7zF15qlLFw9J@g3ohx.demon.co.uk>
 <slrnhpdef9.2o5.bit-bucket@shell.config.com>
 <CmXVCWYr4rlLFwMx@g3ohx.demon.co.uk> <ovri67-mkf1.ln1@mikea.ath.cx>
 <hjoNztOW17lLFwpm@g3ohx.demon.co.uk> <8B3qLqZoZ8lLFwYt@g3ohx.demon.co.uk>
 <1f2f7ded-c389-4f78-93a3-e0efbd574780@x23g2000prd.googlegroups.com>
 <7vtlriFs47U1@mid.individual.net>
 <slrnhpj8vt.1vmu.bit-bucket@shell.config.com>
 <7vv6viFklpU1@mid.individual.net>
Reply-To: If you must, <Reply_to@my.sig.adr>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: individual.net Bm9wfhVgo7NLIX9Q9zoIIQjhoqeH063xtXIspctnxOQJ3wun/N
Cancel-Lock: sha1:lXnJ3c0Do0oZvAe0o/go9/unHFI=
User-Agent: slrn/0.9.9p1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3177

On Fri, 12 Mar 2010 08:03:54 -0800, Joerg wrote:
> Allodoxaphobia wrote:
>> On Thu, 11 Mar 2010 18:05:27 -0800, Joerg wrote:
>>> After my ISP dropped Usenet (hurumph ... grumble ...) I signed up with
>>> news.individual.de and all was well again. Ok, not free but it costs
>>> only 10 Euros per year. It's in Germany yet they signed me up even
>>> though I live in the US. No binaries though. This is their registration
>>> page in English:
>>>
>>> http://news.individual.net/index.php
>>
>> Recommended.  I've been with'em for just shy of ten years now.
>
> I haven't tried it myself (yet) but I heard that it may be possible to
> pay the small usage fee for several years in advance. That would cut
> down on wire fees as banks typically charge them for every single
> transaction regardless how small. Not sure how PayPal would work, I
> don't have that.

Way back then they didn't accept PayPal.  (I see they do now.)
I signed up through/with ClickandBuy.  T'were no hassle at all.

Jonesy
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    * Killfiling google & XXXXbanter.com: jonz.net/ng.htm


From -5427928205087091915
X-Google-Thread: fc2a5,b61eb94124be4de8,start
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,b61eb94124be4de8,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k5g2000pra.googlegroups.com!not-for-
mail
From: jersey-2009 <brandjeans1@163.com>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: nhl throwback jerseys Cheap Wholesale http://www.jersey-2009.com
Date: Fri, 12 Mar 2010 20:06:55 -0800 (PST)
Organization: http://groups.google.com
Lines: 1
Message-ID: <ea2892e7-a97d-4f33-afd9-9a3a99fca286@k5g2000pra.googlegroups.com>
NNTP-Posting-Host: 58.22.149.109
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1268453215 11761 127.0.0.1 (13 Mar 2010 04:06:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 13 Mar 2010 04:06:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k5g2000pra.googlegroups.com; posting-host=58.22.149.109;
     posting-account=5FmytgoAAADp1BhfjhlQFKEoslacWWSy
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     QQPinyin 730; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3475
```

rec.puzzles.crosswords:7337

nhl throwback jerseys Cheap Wholesale http://www.jersey-2009.com

From 2114341553817522192
X-Google-Thread: fc2a5,8a22d186b6a2c13f,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news2.google.com!postnews.google.com!z4g2000yqa.googlegroups.com!not-for-mail
From: "Gian, I7SWX" <i7swx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: AOR AR7070 HF Receiver - Updated infos
Date: Sun, 14 Mar 2010 14:15:42 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <f3898f0d-7834-4231-b99c-0fd6a4f3a69d@z4g2000yqa.googlegroups.com>
NNTP-Posting-Host: 80.183.121.111
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1268601343 6065 127.0.0.1 (14 Mar 2010 21:15:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 14 Mar 2010 21:15:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z4g2000yqa.googlegroups.com; posting-host=80.183.121.111;
posting-account=udTjrAoAAAAiwxU1IW0RllxgGCbsoHkm
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
Trident/4.0; GTB6; .NET CLR 2.0.50727; .NET CLR 1.1.4322; FDM; InfoPath.2;
.NET CLR 3.0.4506.2152; .NET CLR 3.5.30729; OfficeLiveConnector.1.3;
OfficeLivePatch.0.0; yie8),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3476

Hi all,

Colin Horrabin, G3SBI, has just updated information on the AOR AR7070 receiver, that is expected to be put into production soon, probably as the SW development will be completed and fully tested.

The information can be read on Martein=92s, PA3AKE, web site, in the =93Upconversion front end by G3SBI=94:

http://www.xs4all.nl/~martein/pa3ake/hmode/g3sbi_intro.html

An inside picture of the receiver and very interesting information are reported.

The AR7070 has a bandscope that will show the 25kHz bandwidth around the tune frequency, showing a blip from a 0.1uV signal and has a dynamic range of 110dB. NF is around 11/12dB and the IP3, for signals within the roofing filter bandwidth is +21dBm and + 36dBm at 10kHz spacing. All these figures were obtained without adjusting the first mixer for optimum balance.

BTW=85 the first mixer is an H-Mode Mixer !!!

As G3SBI states, the AR7070 when in production will be in a class of its own for an up-conversion radio. It is probably the first super-linear up-conversion receiver.

Too bad AOR may not associate a transmitter to such a super receiver.

Enjoy the reading and 73

Gian, I7SWX

```
From -8318026448590148155
X-Google-Thread: fc2a5,1883d8a60fc644d6,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
feeder.eternal-september.org!eternal-september.org!.POSTED!not-for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Alliance Tenna-Rotor for sale
Date: Sun, 14 Mar 2010 23:26:24 -0500
Organization: A noiseless patient Spider
Lines: 15
Message-ID: <hnkctf$ac6$3@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Mon, 15 Mar 2010 04:26:23 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-host="ilhoh7QFF7KRjlN9xz/
5fw";
     logging-data="10630"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18wxiC6gBWvmBo0nUgBWWqR"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11) Gecko/
20071127 Firefox/2.0.0.11
X-Accept-Language: en-us
Cancel-Lock: sha1:ECy4B36tCX2eomRw/SewaWe4AtI=
Xref: g2news2.google.com rec.radio.amateur.homebrew:3477
```

I have an Alliance Tenna-Rotor model T-20 with control box for sale. It has about 87 feet of 4 conductor cable that goes with it. It can be viewed at:

http://home.comcast.net/~hsknoll/site/?/photos/
&PHPSESSID=29ec62ea0bf1fe4d25e318b011cf0bbf

or

http://tinyurl.com/yktwxpz

I'm asking $30 plus shipping CUS.

Thanks

Henry

```
From 6312947444792420584
X-Google-Thread: fc2a5,1883d8a60fc644d6
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news1
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Alliance Tenna-Rotor for sale
Date: Mon, 15 Mar 2010 01:43:58 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 23
Message-ID: <hnkhf802sav@news1.newsguy.com>
References: <hnkctf$ac6$3@news.eternal-september.org>
NNTP-Posting-Host: p963fa81e998e53ab1b44a65d5ec2af6e66c0e32900ba2ca7.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
In-Reply-To: <hnkctf$ac6$3@news.eternal-september.org>
X-Antivirus: avast! (VPS 100314-1, 03/14/2010), Outbound message
X-Antivirus-Status: Clean
Xref: g2news2.google.com rec.radio.amateur.homebrew:3478
```

Henry wrote:

> I have an Alliance Tenna-Rotor model T-20 with control box for sale. It
> has about 87 feet of 4 conductor cable that goes with it. It can be
> viewed at:
>
> http://home.comcast.net/~hsknoll/site/?/photos/
&PHPSESSID=29ec62ea0bf1fe4d25e318b011cf0bbf
>
>
> or
>
> http://tinyurl.com/yktwxpz
>
> I'm asking $30 plus shipping CUS.
>
> Thanks
>

> Henry

I'll take it. But does CUS mean Continental US sales only?   I'm in
Puerto Rico.   I'll pay the shipping cost (USPS Parcel Post). USA zip
code 00765. email for a reply is radioexray@gmail.com.

From -2984767674301683305
X-Google-Thread: fc8b1,7514ba55a5472d37
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,7514ba55a5472d37
X-Google-NewGroupId: yes
X-Google-Attributes: gidda6537b9fb,gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
newshosting.com!news-out.readnews.com!transit3.readnews.com!panix!
panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: Manuals needed
Date: 15 Mar 2010 10:44:40 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 10
Message-ID: <hnlh4o$r17$1@panix2.panix.com>
References: <4b9e38ce$0$7744$c3e8da3@news.astraweb.com>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1268664280 18261 166.84.1.2 (15 Mar 2010 14:44:40 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 15 Mar 2010 14:44:40 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.boatanchors:4082
rec.radio.amateur.homebrew:3480

In article <4b9e38ce$0$7744$c3e8da3@news.astraweb.com>, <AG5X@arrl.net> wrote:
>I need the assembly and alignment manual(s) for the Knight Kit Star Roamer
>II and the Lafayette BCR-101 receiver. These solid state receivers are of
>1970's vintage. Good clean copies and or clear scans would be appreciated.
>Will pay for copies, reproductions, etc. Thank you & 73 to all

The BAMA manuals aren't good?
--scott
--
"C'est un Nagra. C'est suisse, et tres, tres precis."

From -4774621543354403054
X-Google-Thread: fc2a5,cfac2aca47710080,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g28g2000yqh.googlegroups.com!not-for-

```
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: oscillator
Date: Mon, 15 Mar 2010 14:12:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 6
Message-ID: <3e6552e0-74ba-43ae-9991-9d3e60848209@g28g2000yqh.googlegroups.com>
NNTP-Posting-Host: 75.191.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1268687566 14293 127.0.0.1 (15 Mar 2010 21:12:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 15 Mar 2010 21:12:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g28g2000yqh.googlegroups.com; posting-host=75.191.176.71;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2)
     Gecko/20100115 Firefox/3.6 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3185
```

I have what appears to be a temperature stabilized oscillator made by CTS knights inc Sandwich IL Ithas an octal base appears to take two crystals Part# 900-0196. This is about all I know about it. Any other info would be appreciated.

Jimmie

```
From -1129710051083404459
X-Google-Thread: fc2a5,cfac2aca47710080
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe22.iad.POSTED!7564ea0f!not-for-mail
From: Bill Janssen <billj@ieee.org>
Reply-To: billjNOT_THIS@ieee.org
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: oscillator
References: <3e6552e0-74ba-43ae-9991-9d3e60848209@g28g2000yqh.googlegroups.com>
In-Reply-To: <3e6552e0-74ba-43ae-9991-9d3e60848209@g28g2000yqh.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 11
Message-ID: <hDznn.75250$wr5.55434@newsfe22.iad>
X-Complaints-To: abuse-news@frontiernet.net
NNTP-Posting-Date: Mon, 15 Mar 2010 23:44:13 UTC
Organization: Frontier
```

```
Date: Mon, 15 Mar 2010 16:45:22 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:3483

JIMMIE wrote:
> I have what appears to be a temperature stabilized oscillator made by
> CTS knights inc Sandwich IL  Ithas an octal base appears to take two
> crystals Part# 900-0196. This is about all I know about it. Any other
> info would be appreciated.
>
> Jimmie
>
GE two way radios had ovens like that in the 1970s or earlier.

Bill K7NOM



From 6212279925024899051
X-Google-Thread: fc2a5,cfac2aca47710080
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!b30g2000yqd.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: oscillator
Date: Mon, 15 Mar 2010 21:44:06 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <80afc0a3-a56d-4975-b007-1d7ad9acf8bf@b30g2000yqd.googlegroups.com>
References: <3e6552e0-74ba-43ae-9991-9d3e60848209@g28g2000yqh.googlegroups.com>
     <hDznn.75250$wr5.55434@newsfe22.iad>
NNTP-Posting-Host: 75.191.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1268714646 19670 127.0.0.1 (16 Mar 2010 04:44:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 16 Mar 2010 04:44:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b30g2000yqd.googlegroups.com; posting-host=75.191.176.71;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2)
     Gecko/20100115 Firefox/3.6 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3484

On Mar 15, 7:45=A0pm, Bill Janssen <bi...@ieee.org> wrote:
> JIMMIE wrote:
> > I have what appears to be a temperature stabilized oscillator made by
> > CTS knights inc Sandwich IL =A0Ithas an octal base appears to take two
> > crystals Part# 900-0196. This is about all I know about it. Any other
> > info would be appreciated.
```

```
>
> > Jimmie
>
> GE two way radios had ovens like that in the 1970s or earlier.
>
> Bill K7NOM

Could be , I came by this part in '73. There is a pretty good chance
it was from a Lo band VHF unit.

Jimmie


From -4356805111930223754
X-Google-Thread: fc2a5,cfac2aca47710080
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!t34g2000prm.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: oscillator
Date: Wed, 17 Mar 2010 15:58:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <a80ae0ce-6b4f-4e35-a2b1-2f3f4bf88a53@t34g2000prm.googlegroups.com>
References: <3e6552e0-74ba-43ae-9991-9d3e60848209@g28g2000yqh.googlegroups.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1268866715 24324 127.0.0.1 (17 Mar 2010 22:58:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 17 Mar 2010 22:58:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t34g2000prm.googlegroups.com; posting-host=192.25.240.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2)
     Gecko/20100115 Firefox/3.6,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3486

On Mar 15, 2:12=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> I have what appears to be a temperature stabilized oscillator made by
> CTS knights inc Sandwich IL =A0Ithas an octal base appears to take two
> crystals Part# 900-0196. This is about all I know about it. Any other
> info would be appreciated.
>
> Jimmie

You sure it's actually an oscillator?  I have some units that could be
like you describe that are just thermostat-controlled ovens for
```

crystals. The oscillator is separate, for the ones I have. Guess you
could find out more: check the resistance between each crystal-socket
pin and each of the octal base pins (and perhaps if two of the crystal
pins are in parallel, sharing a common ground or equivalent).

Cheers,
Tom

From -8064307628089698639
X-Google-Thread: fc2a5,cfac2aca47710080
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!l25g2000yqd.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: oscillator
Date: Thu, 18 Mar 2010 16:40:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 25
Message-ID: <36cb3144-bb89-408a-9854-96e1dee13d92@l25g2000yqd.googlegroups.com>
References: <3e6552e0-74ba-43ae-9991-9d3e60848209@g28g2000yqh.googlegroups.com>
     <a80ae0ce-6b4f-4e35-a2b1-2f3f4bf88a53@t34g2000prm.googlegroups.com>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1268955622 24695 127.0.0.1 (18 Mar 2010 23:40:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 18 Mar 2010 23:40:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l25g2000yqd.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2)
     Gecko/20100115 Firefox/3.6,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3487

On Mar 17, 6:58=A0pm, K7ITM <k7...@msn.com> wrote:
> On Mar 15, 2:12=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
> > I have what appears to be a temperature stabilized oscillator made by
> > CTS knights inc Sandwich IL =A0Ithas an octal base appears to take two
> > crystals Part# 900-0196. This is about all I know about it. Any other
> > info would be appreciated.
>
> > Jimmie
>
> You sure it's actually an oscillator? =A0I have some units that could be
> like you describe that are just thermostat-controlled ovens for
> crystals. =A0The oscillator is separate, for the ones I have. =A0Guess yo=

```
u
> could find out more: check the resistance between each crystal-socket
> pin and each of the octal base pins (and perhaps if two of the crystal
> pins are in parallel, sharing a common ground or equivalent).
>
> Cheers,
> Tom

Thanks Tom. You are correct. Leads from the crystal sockets go
directly to the octal connector.

Jimmie



From -47176002938555228
X-Google-Thread: fc2a5,7785665ac91e11f9,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!u33g2000yqe.googlegroups.com!not-for-
mail
From: jane <ujitasoso@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: How to convert 12V into +5V and -5V output at the same time?
Date: Fri, 19 Mar 2010 11:16:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 5
Message-ID: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
NNTP-Posting-Host: 136.2.1.101
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1269022615 18953 127.0.0.1 (19 Mar 2010 18:16:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 19 Mar 2010 18:16:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u33g2000yqe.googlegroups.com; posting-host=136.2.1.101;
     posting-account=OruUZAoAAADbQXS1s6F99yshThtmfz3i
User-Agent: G2/1.0
X-HTTP-Via: 1.1 ncfmcc1 (NetCache NetApp/6.0.5DEBUG2)
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     F-6.0SP2-20041109; InfoPath.1; .NET CLR 2.0.50727; .NET CLR 3.0.04506.648;
     .NET CLR 3.5.21022; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3488

Suppose I have a DC power supply of 12V, what kind of circuit I can
construct so I can get +5V and -5V output simultaneously, with a +5V
and a -5V regulator? Hopefully no transformer is involved.

I couldn't find any topics thru google search.


From 4085704572259704562
X-Google-Thread: 241b302a50,7785665ac91e11f9
```

X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Joerg <invalid@invalid.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
Date: Fri, 19 Mar 2010 12:41:37 -0700
Organization: Consultant
Lines: 31
Message-ID: <4BA3D371.7090202@invalid.invalid>
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
Reply-To: news@analogconsultants.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: individual.net ZW1xmAV4iiNpZY708nCz+Q4bGZrvyqMqnRJK7wlofe5US/MfI2
Cancel-Lock: sha1:lHEcfwr0B6F0vh+kQToaG5Yz/pk=
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
In-Reply-To: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3489

jane wrote:

> Suppose I have a DC power supply of 12V, what kind of circuit I can
> construct so I can get +5V and -5V output simultaneously, with a +5V
> and a -5V regulator? Hopefully no transformer is involved.
>
> I couldn't find any topics thru google search.

+5V could be done using a buck converter, sometimes called step-down.
-5V requires what's called an inverting converter but that one needs two
inductors. Can all be done using regular catalog inductors, no need to
wind transformers.

Plenty of examples on manufacturers web site. Linear Tenchnology
Corporation, Texas Instruments, National Semiconductor, ON Semi, and so
on. But first you'd have to determine how much current you need or want
to be available on each rail.

Since this is a ham radio group be aware of the fact that switch mode
converters spew a lot of radio noise around. While you could use a
linear regulator for +5V (with potentially lots of heat dissipation) you
can't do that for -5V. So the layout has to be as good as if you were
designing RF circuitry. Full ground plane and that sort of thing.

--
Regards, Joerg

http://www.analogconsultants.com/

"gmail" domain blocked because of excessive spam.

```
Use another domain or send PM.


From 3459773996668465444
X-Google-Thread: fc2a5,7785665ac91e11f9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!l24g2000prh.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
Date: Fri, 19 Mar 2010 13:25:38 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
Message-ID: <4e691ea6-e4e2-4860-9659-1c3fe4f95c20@l24g2000prh.googlegroups.com>
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
     <4BA3D371.7090202@invalid.invalid>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269030338 19443 127.0.0.1 (19 Mar 2010 20:25:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 19 Mar 2010 20:25:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l24g2000prh.googlegroups.com; posting-host=192.25.240.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2)
     Gecko/20100115 Firefox/3.6,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3193

On Mar 19, 12:41=A0pm, Joerg <inva...@invalid.invalid> wrote:
> jane wrote:
> > Suppose I have a DC power supply of 12V, what kind of circuit I can
> > construct so I can get +5V and -5V output simultaneously, with a +5V
> > and a -5V regulator? Hopefully no transformer is involved.
>
> > I couldn't find any topics thru google search.
>
> +5V could be done using a buck converter, sometimes called step-down.
> -5V requires what's called an inverting converter but that one needs two
> inductors. Can all be done using regular catalog inductors, no need to
> wind transformers.
>
> Plenty of examples on manufacturers web site. Linear Tenchnology
> Corporation, Texas Instruments, National Semiconductor, ON Semi, and so
> on. But first you'd have to determine how much current you need or want
> to be available on each rail.
>
> Since this is a ham radio group be aware of the fact that switch mode
```

> converters spew a lot of radio noise around. While you could use a linear regulator for +5V (with potentially lots of heat dissipation) you can't do that for -5V. So the layout has to be as good as if you were designing RF circuitry. Full ground plane and that sort of thing.
>
> --
> Regards, Joerg
>
> http://www.analogconsultants.com/
>
> "gmail" domain blocked because of excessive spam.
> Use another domain or send PM.

...

> -5V requires what's called an inverting converter but that one needs two inductors.

Eh? I normally do it with a single inductor...it's exactly the same as a boost converter, just referenced to the positive supply. See, for example, MAX1846, or LM2673.

OP: If you only need a few mA or less at -5V, you might consider a switched-capacitor converter such as the LT1144. At low current, it generates nearly the same negative voltage as the positive you put in, so you could run it from your +5V supply. If you search some of the "likely suspects" that supply power regulator ICs, you'll find some that will happily do a positive output voltage and a negative output voltage, though things may get complicated enough with one of those that you'd just as soon use a couple different ICs. If the power you need out of the +5V supply is modest, consider just using a linear regulator. The power dissipated in the regulator will be 1.4 times the power dissipated in the load you're supplying with the 5V. That is, the current drops through 12-5 =3D 7V in the regulator. 100mA load current would cause 0.7W dissipation in the regulator, which would probably be easy to handle. If your load current is 10 amps, that would be 70 watts dissipation, and you're probably better off with an efficient switching regulator.

Suppliers web sites to visit: you might add Maxim to Joerg's list. (There are lots of others.)

Cheers,
Tom

From -4885116129070317540
X-Google-Thread: fc2a5,7785665ac91e11f9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g4g2000yqa.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
Date: Fri, 19 Mar 2010 14:18:12 -0700 (PDT)
Organization: http://groups.google.com
Lines: 8
Message-ID: <4f9a6362-a6bf-4b47-b8ed-a15b1a1039b6@g4g2000yqa.googlegroups.com>
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269033492 29250 127.0.0.1 (19 Mar 2010 21:18:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 19 Mar 2010 21:18:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000yqa.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2)
     Gecko/20100115 Firefox/3.6 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3491

On Mar 19, 2:16=A0pm, jane <ujitas...@yahoo.com> wrote:
> Suppose I have a DC power supply of 12V, what kind of circuit I can
> construct so I can get +5V and -5V output simultaneously, with a +5V
> and a -5V regulator? Hopefully no transformer is involved.
>
> I couldn't find any topics thru google search.

Charge pump using an NE555 osc.


From 890548716065154182
X-Google-Thread: fc2a5,7785665ac91e11f9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
feeder.eternal-september.org!eternal-september.org!.POSTED!not-for-mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
Date: Fri, 19 Mar 2010 21:40:13 +0000
Organization: A noiseless patient Spider
Lines: 18
Message-ID: <aXfDOkJ98+oLFw0L@g3ohx.demon.co.uk>
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
 <4f9a6362-a6bf-4b47-b8ed-a15b1a1039b6@g4g2000yqa.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain;charset=iso-8859-1;format=flowed
Content-Transfer-Encoding: 8bit
Injection-Date: Fri, 19 Mar 2010 21:40:19 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-host="1Z/
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     logging-data="28731"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+/VLCvgxRxXzIJeVrzBYJ7+laIPQ73C4Y="
User-Agent: Turnpike/6.06-S (<rBcqWKWDKPzxZMCjytAoewWAIu>)
Cancel-Lock: sha1:0nfZHSNermgYEJ3UFgFeRybtZaw=
Xref: g2news2.google.com rec.radio.amateur.homebrew:3492

In message
<4f9a6362-a6bf-4b47-b8ed-a15b1a1039b6@g4g2000yqa.googlegroups.com>,
JIMMIE <JIMMIEDEE123@YAHOO.COM> writes
>On Mar 19, 2:16�pm, jane <ujitas...@yahoo.com> wrote:
>> Suppose I have a DC power supply of 12V, what kind of circuit I can
>> construct so I can get +5V and -5V output simultaneously, with a +5V
>> and a -5V regulator? Hopefully no transformer is involved.
>>
>> I couldn't find any topics thru google search.
>
>Charge pump using an NE555 osc.

Indeed. But it depends on how much current you need from the -5V supply.
For low currents, try some sort of multivibrator /squarewave generator
(NE555 - even a couple of transistors!) to produce an alternating
signal, AC couple and rectify.
--
Ian



From 4737526037137586171
X-Google-Thread: fc2a5,7785665ac91e11f9
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!f8g2000yqn.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
Date: Fri, 19 Mar 2010 15:32:58 -0700 (PDT)
Organization: http://groups.google.com
Lines: 27
Message-ID: <42347d49-f71a-486a-afba-381bdc4fc785@f8g2000yqn.googlegroups.com>
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
     <4f9a6362-a6bf-4b47-b8ed-a15b1a1039b6@g4g2000yqa.googlegroups.com>
     <aXfDOkJ98+oLFw0L@g3ohx.demon.co.uk>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269037979 23774 127.0.0.1 (19 Mar 2010 22:32:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 19 Mar 2010 22:32:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f8g2000yqn.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
```

```
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2)
     Gecko/20100115 Firefox/3.6 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3493

On Mar 19, 5:40=A0pm, Ian Jackson
<ianREMOVETHISjack...@g3ohx.demon.co.uk> wrote:
> In message
> <4f9a6362-a6bf-4b47-b8ed-a15b1a103...@g4g2000yqa.googlegroups.com>,
> JIMMIE <JIMMIEDEE...@YAHOO.COM> writes
>
> >On Mar 19, 2:16=A0pm, jane <ujitas...@yahoo.com> wrote:
> >> Suppose I have a DC power supply of 12V, what kind of circuit I can
> >> construct so I can get +5V and -5V output simultaneously, with a +5V
> >> and a -5V regulator? Hopefully no transformer is involved.
>
> >> I couldn't find any topics thru google search.
>
> >Charge pump using an NE555 osc.
>
> Indeed. But it depends on how much current you need from the -5V supply.
> For low currents, try some sort of multivibrator /squarewave generator
> (NE555 - even a couple of transistors!) to produce an alternating
> signal, AC couple and rectify.
> --
> Ian

Ian, its been a while since I built a charge pump but I think my
experiments showed it would do about 25ma as a voltage doubler. I was
using +5 to get -8

Jimmie


From 8488092842556565633
X-Google-Thread: 241b302a50,7785665ac91e11f9
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!y17g2000yqd.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to convert 12V into +5V and -5V output at the same time?
Date: Fri, 19 Mar 2010 15:34:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 36
Message-ID: <7a53f396-8651-47da-9183-c3830aa38da3@y17g2000yqd.googlegroups.com>
References: <1e24ec41-2119-4cec-9b9e-8723f30a9392@u33g2000yqe.googlegroups.com>
     <4f9a6362-a6bf-4b47-b8ed-a15b1a1039b6@g4g2000yqa.googlegroups.com>
     <aXfDOkJ98+oLFw0L@g3ohx.demon.co.uk> <42347d49-f71a-486a-
afba-381bdc4fc785@f8g2000yqn.googlegroups.com>
NNTP-Posting-Host: 71.75.73.222
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1269038095 590 127.0.0.1 (19 Mar 2010 22:34:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 19 Mar 2010 22:34:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y17g2000yqd.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2)
     Gecko/20100115 Firefox/3.6 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3494

On Mar 19, 6:32=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> On Mar 19, 5:40=A0pm, Ian Jackson
>
>
>
> <ianREMOVETHISjack...@g3ohx.demon.co.uk> wrote:
> > In message
> > <4f9a6362-a6bf-4b47-b8ed-a15b1a103...@g4g2000yqa.googlegroups.com>,
> > JIMMIE <JIMMIEDEE...@YAHOO.COM> writes
>
> > >On Mar 19, 2:16=A0pm, jane <ujitas...@yahoo.com> wrote:
> > >> Suppose I have a DC power supply of 12V, what kind of circuit I can
> > >> construct so I can get +5V and -5V output simultaneously, with a +5V
> > >> and a -5V regulator? Hopefully no transformer is involved.
>
> > >> I couldn't find any topics thru google search.
>
> > >Charge pump using an NE555 osc.
>
> > Indeed. But it depends on how much current you need from the -5V supply=
.
> > For low currents, try some sort of multivibrator /squarewave generator
> > (NE555 - even a couple of transistors!) to produce an alternating
> > signal, AC couple and rectify.
> > --
> > Ian
>
> Ian, its been a while since I built a charge pump but I think my
> experiments showed it would do about 25ma as a voltage doubler. I was
> using +5 to get -8
>
> Jimmie

That was using an NE555.

Jimmie


From -2165240109603076668
```

X-Google-Thread: a4a23d5f63,4b5d61260b0db691,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!solaris.cc.vt.edu!
news.vt.edu!elk.ncren.net!newsswitch.lcs.mit.edu!bloom-beacon.mit.edu!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1262329201@panix.com>
Followup-To: poster
Date: 1 Feb 2010 02:00:02 -0500
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 06 Mar 2010 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1265007601@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1265007603 24932 166.84.1.2 (1 Feb 2010 07:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 1 Feb 2010 07:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Xref: g2news1.google.com rec.radio.amateur.antenna:14622 rec.radio.amateur.dx:545
rec.radio.amateur.equipment:1737 rec.radio.amateur.homebrew:3095
rec.radio.amateur.misc:4586 rec.radio.amateur.policy:25179
rec.radio.amateur.space:309 rec.radio.info:1204

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From -2663065549293366300
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
newsfeed.xs4all.nl!newsfeed6.news.xs4all.nl!xs4all!newsgate.cistron.nl!
newsgate.news.xs4all.nl!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Wireless microphones in the USA
References: <kMGdnY7NzqPTYPzWnZ2dnUVZ7v6dnZ2d@pipex.net>
 <c3784e7a-a9d5-4c2b-9aa3-964005788742@36g2000yqu.googlegroups.com>
 <b9t8m5hr3ml1pc871em3ndlf0h4agkhaem@4ax.com>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrnhmdb89.dvh.nomail@xs8.xs4all.nl>
Date: 01 Feb 2010 10:29:29 GMT
Lines: 17
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1265020169 news.xs4all.nl 22942 [::ffff:194.109.21.8]:36184
```

X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:3096

John Ferrell <jferrell13@triad.rr.com> wrote:
> On Fri, 29 Jan 2010 00:17:42 -0800 (PST), "sohosources@gmail.com"
> <sohosources@gmail.com> wrote:
>
>>From what I can tell, churches in the USA that are large enough to
>>require wireless mics have PLENTY of money... :)
>>
>>--NT0Z
>
> Wireless mic's cost less for us because it takes fewer and requires
> zero installation resources. Wireless speakers are on the want list
> and wireless mixing board is on the dreaming list.

They probably have kept all old invoices and are looking at what
they paid for their 700 MHz wireless mike 20 years ago.
But that does not mean the cost for a replacement will be the same today.
It may well be 1/10th of that amount.

From 7773861657022126540
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!goblin2!goblin.stu.neva.ru!
news.stack.nl!newsfeed.xs4all.nl!newsfeed5.news.xs4all.nl!xs4all!
post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: jury rigged vhf receiver
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
 <PJWdnS07ku2NS8HWnZ2dnUVZ_rli4p2d@web-ster.com>
 <e9ea9721-5666-4716-a838-8868c65cdfde@c4g2000yqa.googlegroups.com>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrnhme9p7.q2h.nomail@xs8.xs4all.nl>
Date: 01 Feb 2010 19:10:31 GMT
Lines: 14
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1265051431 news.xs4all.nl 22933 [::ffff:194.109.21.8]:51954
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:3097

JIMMIE <JIMMIEDEE123@YAHOO.COM> wrote:
> UPS delivered the mixer yesterday evening but I didnt get to play with
> it until this AM.Im working evenings. I spent about an hour getting it
> connected up. There may not have been any SSB activity but I was able
> to hear all the usual local 2m repeaters using my HF rig set up for
> 10M FM.

How is SSB activity in your area these days?

Over here (Netherlands) it never was as big as FM and one would not
expect to hear much in the morning hours, when many hams are at work.

But these days, even during evening hours there is not much SSB to
be heard anymore. There seems to be activity only during band openings
and contests.

From 7493297135527021030
X-Google-Thread: 241b302a50,3c99dac3767c27f1
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
188.40.43.213.MISMATCH!feeder.eternal-september.org!eternal-september.org!.POSTED!
not-for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Items for sale
Date: Mon, 01 Feb 2010 23:02:56 -0600
Organization: A noiseless patient Spider
Lines: 54
Message-ID: <hk8bln$e5i$2@news.eternal-september.org>
References: <hk31lr$v8r$2@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Tue, 2 Feb 2010 05:02:48 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-host="ilhoh7QFF7KRjlN9xz/
5fw";
logging-data="14514"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX1/9h8sI3eO2ubBSoHBKTdo0"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11) Gecko/
20071127 Firefox/2.0.0.11
In-Reply-To: <hk31lr$v8r$2@news.eternal-september.org>
X-Accept-Language: en-us
Cancel-Lock: sha1:MxlJTcusgPTv3zxfGHNM0vtM1u8=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3098

Here is a list of gear I have for sale and the prices
I'm asking as a starting point.

Photos of all can be seen at:

http://home.comcast.net/~hsknoll/site/?/photos/

click on the images to enlarge them.

I can be reached at either wa0goz@arrl.net or 651-426-4144. Ask for
Henry.

=======================================
RF Concepts RFC2-117 linear 2M linear amp with receive

pre-amp. 143-149 MHz. 10 W in 170 W out.
$190

==
Millivac Instruments MV-28B RF Microvoltmeter
BO

==
I have the following General Radio equipment for sale. All of
it is in very good condition and working:

1	874-LB	Slotted Line
1	874-LV	Micrometer for the slotted line
2	874-LTL	Trombone lines
1	874-GA	Adjustable Attenuator
1	874-L30	30 cm Air Line
3	874-L20	20 cm Air Lines
4	874-L10	10 cm Air Lines
1	874-F1000	1000 MHz Low Pass Filter
1	874-L500	500 MHz Low Pass Filter
1	874-D50	50 cm Adjustable Stub
1	874-D50L	50 cm Adjustable Stub
1	874-D20	20 cm Adjustable Stub
2	874-LA	Adjustable Line
5	874-T	Tee's
1	874-EL	Elbow
2	874-K	Coupling Capacitors
5	Small dia. cables -- GR conn.'s on both ends	
1	Small dia. cable -- GR conn. on one end & banana plugs on other	
5	Large dia. cables -- GR conn. on both ends	

Reasonable offer

==
SMA chassis connectors   Reasonable offer

==
SMA to N adapters   Reasonable offer

==
General Radio 1650A   Impedance Bridge   Reasonable offer

==
General Radio adapters to various other connectors $10

From -8685446669374361882
X-Google-Thread: 241b302a50,e5bc509a53a72a8f,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!feeder.erje.net!feeder.eternal-september.org!eternal-september.org!.POSTED!not-for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Simpson Meters for sale
Date: Tue, 02 Feb 2010 10:32:37 -0600

Organization: A noiseless patient Spider
Lines: 21
Message-ID: <hk9k2s$bk0$2@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Tue, 2 Feb 2010 16:32:29 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-host="ilhoh7QFF7KRjlN9xz/5fw";
logging-data="11904"; mail-complaints-to="abuse@eternal-september.org";
posting-account="U2FsdGVkX1/nYM+hVjPLfonPAKAfvxtY"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11) Gecko/20071127 Firefox/2.0.0.11
X-Accept-Language: en-us
Cancel-Lock: sha1:s6NVNMDGsWGLt4SP66OUya9Z4RA=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3099

Here is a list of Simpson meters I have for sale and the prices
I'm asking as a starting point.

Model 362 Low Range Ohm Meter	0-5 and 0-25 ohms	$40
Model 390 Watt and Ampmeter	300-3000W and 3&15A	$50
Model 260 VOM with mirrored scale		$100

All items plus postage in USA only.

Photos of all can be seen at:

http://home.comcast.net/~hsknoll/site/?/photos/

click on the images to enlarge them.

I can be reached at either wa0goz@arrl.net or 651-426-4144. Ask for
Henry.

From -9000078410991485254
X-Google-Thread: 241b302a50,4ae2ab65f21d3579
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!b10g2000yqa.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: jury rigged vhf receiver
Date: Tue, 2 Feb 2010 16:44:38 -0800 (PST)
Organization: http://groups.google.com
Lines: 20

```
Message-ID: <2d1aaeff-1ff9-4137-bde3-035576186964@b10g2000yqa.googlegroups.com>
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
     <PJWdnS07ku2NS8HWnZ2dnUVZ_rli4p2d@web-ster.com> <e9ea9721-5666-4716-
a838-8868c65cdfde@c4g2000yqa.googlegroups.com>
     <slrnhme9p7.q2h.nomail@xs8.xs4all.nl>
NNTP-Posting-Host: 75.191.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1265157878 29692 127.0.0.1 (3 Feb 2010 00:44:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 3 Feb 2010 00:44:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b10g2000yqa.googlegroups.com; posting-host=75.191.176.71;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.7)
     Gecko/20091221 Firefox/3.5.7 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3100

On Feb 1, 2:10=A0pm, Rob <nom...@example.com> wrote:
> JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> > UPS delivered the mixer yesterday evening but I didnt get to play with
> > it until this AM.Im working evenings. I spent about an hour getting it
> > connected up. There may not have been any SSB activity but I was able
> > to hear all the usual local 2m repeaters using my HF rig set up for
> > 10M FM.
>
> How is SSB activity in your area these days?
> Over here (Netherlands) it never was as big as FM and one would not
> expect to hear much in the morning hours, when many hams are at work.
>
> But these days, even during evening hours there is not much SSB to
> be heard anymore. =A0There seems to be activity only during band openings
> and contests.

Same here, I had to call someone to get him to give me some test
counts on SSB to test my lash up.

Jimmie



From -6421873471159890912
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g8g2000pri.googlegroups.com!not-for-
mail
From: raja inal <rajainal1983@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Earth4Energy Blueprints for $27
Date: Thu, 4 Feb 2010 22:25:53 -0800 (PST)
Organization: http://groups.google.com
Lines: 9
Message-ID: <fbfc392d-e26a-4ffc-ac8d-7c01efa1900c@g8g2000pri.googlegroups.com>
```

NNTP-Posting-Host: 202.70.54.91
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1265351153 32506 127.0.0.1 (5 Feb 2010 06:25:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 5 Feb 2010 06:25:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g8g2000pri.googlegroups.com; posting-host=202.70.54.91;
     posting-account=4_lOIwoAAAB-5K75dfOzCQ2dukD4NzX8
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
     rv:1.9.2a1pre) Gecko/20090717 Minefield/3.6a1pre,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3101

Full Access To All Earth4Energy Videos
And Tutorials For Only $27.
http://earth-4energy-review.123probiz.com

Go Green :)

Hafifuddin
Supervisor
http://www.gogonai.info/?id=hafifuddin

From -2044971058676308499
X-Google-Thread: 241b302a50,2370ad39c1347b0,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!goblin3!goblin.stu.neva.ru!
citadel.nobulus.com!newsfeed.ision.net!newsfeed2.easynews.net!ision!
news.space.net!news.m-online.net!newsfeed.r-kom.de!news0.de.colt.net!colt.net!
feeder.news-service.com!xlned.com!feeder1.xlned.com!feeder2.cambriumusenet.nl!
feed.tweaknews.nl!209.197.12.246.MISMATCH!nx02.iad01.newshosting.com!
newshosting.com!216.196.98.148.MISMATCH!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 05 Feb 2010 23:12:05 -0600
From: lenseman <lenseman.5b2af98@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 88-108MHZ BC RX 'pulled' for 137MHz Wx signals?
Date: Sat, 6 Feb 2010 01:09:36 +0000
Message-ID: <lenseman.5b2af98@radiobanter.com>
Organization: RadioBanter.com
Lines: 17
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
gPscK5DOjiOmu6IRbnhTaRYLixv3qjkxs0nIzM0jsiD9YEy5vf3hOnQk8LkXeBuMGYrILbexPh2DDKu!
zyn8emyimtVncldwiFWOmazo1pYZ5Y2cHZJ7XvNDd6GjNuQigkJbzy90QdNNq6EhO0Zxh9nSOOJT!
bDSZiw==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers

```
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 7
Xref: g2news1.google.com rec.radio.amateur.homebrew:3102
```

Has anyone pulled a VHF Rx to enable the Wx APT transmissions at
137.1MHz? If so, how easy is the conversion?

If not, a downconverter to enable the Wx signals to be received on a
VHF wideband broadcast receiver.

Can anyone point me in the direction any cirecuits, kits or any mixer
circuits or any other info regarding this project. Complete systems
from Timestep, ICS and Hamtronics etc are reather expensive. :-)

Best regards David 73 de G6UXD/MM

--
lenseman

```
From -6171045771598270817
X-Google-Thread: 241b302a50,2370ad39c1347b0
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!u9g2000yqb.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 88-108MHZ BC RX 'pulled' for 137MHz Wx signals?
Date: Sat, 6 Feb 2010 08:39:43 -0800 (PST)
Organization: http://groups.google.com
Lines: 22
Message-ID: <73ee88d7-df61-490c-bdb3-9b797fc4aca9@u9g2000yqb.googlegroups.com>
References: <lenseman.5b2af98@radiobanter.com>
NNTP-Posting-Host: 75.191.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1265474383 30347 127.0.0.1 (6 Feb 2010 16:39:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 6 Feb 2010 16:39:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u9g2000yqb.googlegroups.com; posting-host=75.191.176.71;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.7)
```

```
     Gecko/20091221 Firefox/3.5.7 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3103

On Feb 5, 8:09=A0pm, lenseman <lenseman.5b2a...@radiobanter.com> wrote:
> Has anyone pulled a VHF Rx to enable the Wx APT transmissions at
> 137.1MHz? =A0If so, how easy is the conversion?
>
> If not, a downconverter to enable the Wx signals to be received on a
> VHF wideband broadcast receiver.
>
> Can anyone point me in the direction any cirecuits, kits or any mixer
> circuits or any other info regarding this project. =A0Complete systems
> from Timestep, ICS and Hamtronics etc are reather expensive. :-)
>
> Best regards =A0David 73 de G6UXD/MM
>
> --
> lenseman

I got into this years ago and modified a Radio Shack Weather Cube
radio. I don't remember the specifics but it wasn't difficult. I think
all you need to rx the weather sats is a radio and a PC with a sound
card. Free software is available.

Jimmie



From -6144187834784102197
X-Google-Thread: 241b302a50,2370ad39c1347b0
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!feeder.eternal-september.org!eternal-september.org!aioe.org!not-
for-mail
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 88-108MHZ BC RX 'pulled' for 137MHz Wx signals?
Date: Sat, 06 Feb 2010 12:14:40 -0500
Organization: Aioe.org NNTP Server
Lines: 21
Message-ID: <fmmck-8D49AD.12144006022010@5ad64b5e.bb.sky.com>
References: <lenseman.5b2af98@radiobanter.com>
NNTP-Posting-Host: azwZk6x9J7rsc3jD7nqe7g.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.8.2
X-Face: A~RMd^C(L"!~dv$bYcX\w)AOFxO|O)JNG>I&F2#e@rY6"p:\5APl,h=74gxQk
        ^\Ogef=X\LAyHS^*j'x{=$X4#tW]oEl]J:j.Xrt7F)[Vm]0qkb<0#u64#Z1/;ns[=;m6
        +<@)nB.fB*"{1@U:}M:f{#R>&]!V<Kr}(N,%{M|(1JAte.FKL?y~?(sfJM_^
Xref: g2news1.google.com rec.radio.amateur.homebrew:3104
```

In article <lenseman.5b2af98@radiobanter.com>,
lenseman <lenseman.5b2af98@radiobanter.com> wrote:

> Has anyone pulled a VHF Rx to enable the Wx APT transmissions at
> 137.1MHz? If so, how easy is the conversion?
>
> If not, a downconverter to enable the Wx signals to be received on a
> VHF wideband broadcast receiver.

David-

If the FM receiver has high-side injection for the broadcast band, you may be able to pull the local oscillator a bit higher, and receive the 137 MHz signal using low-side injection. I think the receiver's RF amplifier stages would need to be retuned as well. A counter would be helpful to be sure you are receiving the right signal.

I think it would be easier to build a crystal controlled converter to translate the 137 MHz signal to the FM receiver's IF frequency.

Fred

```
From -6073870421818918198
X-Google-Thread: 241b302a50,2370ad39c1347b0
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!k19g2000yqc.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 88-108MHZ BC RX 'pulled' for 137MHz Wx signals?
Date: Sat, 6 Feb 2010 09:30:18 -0800 (PST)
Organization: http://groups.google.com
Lines: 31
Message-ID: <85c81b5b-2716-439d-a836-5b03c259ac39@k19g2000yqc.googlegroups.com>
References: <lenseman.5b2af98@radiobanter.com> <73ee88d7-df61-490c-
bdb3-9b797fc4aca9@u9g2000yqb.googlegroups.com>
NNTP-Posting-Host: 75.191.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1265477418 20009 127.0.0.1 (6 Feb 2010 17:30:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 6 Feb 2010 17:30:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k19g2000yqc.googlegroups.com; posting-host=75.191.176.71;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.7)
     Gecko/20091221 Firefox/3.5.7 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3105
```

```
On Feb 6, 11:39=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> On Feb 5, 8:09=A0pm, lenseman <lenseman.5b2a...@radiobanter.com> wrote:
>
> > Has anyone pulled a VHF Rx to enable the Wx APT transmissions at
> > 137.1MHz? =A0If so, how easy is the conversion?
>
> > If not, a downconverter to enable the Wx signals to be received on a
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>
> > Can anyone point me in the direction any cirecuits, kits or any mixer
> > circuits or any other info regarding this project. =A0Complete systems
> > from Timestep, ICS and Hamtronics etc are reather expensive. :-)
>
> > Best regards =A0David 73 de G6UXD/MM
>
> > --
> > lenseman
>
> I got into this years ago and modified a Radio Shack Weather Cube
> radio. I don't remember the specifics but it wasn't difficult. I think
> all you need to rx the weather sats is a radio and a PC with a sound
> card. Free software is available.
>
> Jimmie

Never tried it but I think the receiver being wide band may be a
problem. There are a few ICs out that are basically radios on a chip.
It takes very view added parts to get them working. I cant think of a
part# now but I am sure someone will.

Jimmie



From 5948071819313440760
X-Google-Thread: 241b302a50,2370ad39c1347b0
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 06 Feb 2010 11:56:54 -0600
Date: Sat, 06 Feb 2010 17:56:54 +0000
From: highlandham <highlandham.nospam@rfburns.eu>
User-Agent: Thunderbird 2.0.0.23 (X11/20100108)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 88-108MHZ BC RX 'pulled' for 137MHz Wx signals?
References: <lenseman.5b2af98@radiobanter.com> <73ee88d7-df61-490c-
bdb3-9b797fc4aca9@u9g2000yqb.googlegroups.com> <85c81b5b-2716-439d-
a836-5b03c259ac39@k19g2000yqc.googlegroups.com>
In-Reply-To: <85c81b5b-2716-439d-a836-5b03c259ac39@k19g2000yqc.googlegroups.com>
```

```
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <KJqdnesLkN76MPDWnZ2dnUVZ7rhi4p2d@pipex.net>
Lines: 31
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.110.157.35
X-Trace: sv3-
nGLJ5ORPtq9TcIar6UqvWoJLjs9ORMGfJfHDX6efEFvIOA53dVJefBYR5VfVluvGZurxT9j/8/tVrzu!
Hx+MNLHVBnkowC6NQAN9IhRldzxYOOKP6VfHT5AggaYJ5KhUI7e03qQ2rXD2rQRsNL2Ht1OkOcH7!
okLs0SH1qF7riVWF3C+uNZ/6pA==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3106

JIMMIE wrote:
> On Feb 6, 11:39 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>> On Feb 5, 8:09 pm, lenseman <lenseman.5b2a...@radiobanter.com> wrote:
>>
>>> Has anyone pulled a VHF Rx to enable the Wx APT transmissions at
>>> 137.1MHz?  If so, how easy is the conversion?
>>> If not, a downconverter to enable the Wx signals to be received on a
>>> VHF wideband broadcast receiver.
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>>> Best regards  David 73 de G6UXD/MM
>>> --
>>> lenseman
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>>
>> Jimmie
>
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> problem. There are a few ICs out that are basically radios on a chip.
> It takes very view added parts to get them working. I cant think of a
> part# now but I am sure someone will.
>
> Jimmie
====================================================
A well known all included low cost FM rx chip : TDA7000

Frank   GM0CSZ / KN6WH


From 734879107859903997
X-Google-Thread: 241b302a50,2370ad39c1347b0
```

X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!goblin3!goblin.stu.neva.ru!
news.nobody.at!texta.sil.at!newsfeed01.chello.at!newsfeed.freenet.de!xlned.com!
feeder3.xlned.com!news.glorb.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 06 Feb 2010 23:12:01 -0600
From: triode <triode.5b40117@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 88-108MHZ BC RX 'pulled' for 137MHz Wx signals?
Date: Sun, 7 Feb 2010 00:45:17 +0000
Message-ID: <triode.5b40117@radiobanter.com>
Organization: RadioBanter.com
References: <lenseman.5b2af98@radiobanter.com>
<fmmck-8D49AD.12144006022010@5ad64b5e.bb.sky.com>
Lines: 36
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-C5eAKXiwccx8zV76OyK5BtmJ1prnweCvS/
V3H44oD1BfNbSJwlXnjptioJY62ZEYmTJTDjBy5AU3IQK!V9MghaXcyFGcCKpr9NK/
XJGXyeODvUCX5dYWJH3FH0C9ab79zyhQQKZPcb0Rma/B38vNS3soiXWL!V7I=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Lines: 1
Xref: g2news1.google.com rec.radio.amateur.homebrew:3107

Fred McKenzie;699187 Wrote:
> In article lenseman.5b2af98@radiobanter.com,
> lenseman lenseman.5b2af98@radiobanter.com wrote:
> -
> Has anyone pulled a VHF Rx to enable the Wx APT transmissions at
> 137.1MHz? If so, how easy is the conversion?
>
> If not, a downconverter to enable the Wx signals to be received on a
> VHF wideband broadcast receiver.-
>
> David-
>
> If the FM receiver has high-side injection for the broadcast band, you
> may be able to pull the local oscillator a bit higher, and receive the
> 137 MHz signal using low-side injection. I think the receiver's RF
> amplifier stages would need to be retuned as well. A counter would be
> helpful to be sure you are receiving the right signal.
>
> I think it would be easier to build a crystal controlled converter to
> translate the 137 MHz signal to the FM receiver's IF frequency.
>

> Fred

What would be the point.... the FM radio already can convert the
137megs to 10.7 megs with just modified coils! Why complicate something
simple? A signal generator would be more useful than a freq counter to
get it on frequency. The beauty of it is it will also receive aircraft
... the FM discriminator on cheap FM radios will also happily
demodulate AM. I have done this, it works well, and takes just 30
minutes.

--
triode

From -6252011851229617023
X-Google-Thread: a4a23d5f63,a684b07d2e16dbfe,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news-
in-02.newsfeed.easynews.com!easynews.com!easynews!news-out.readnews.com!news-
xxxfer.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1262847900@panix.com>
Followup-To: poster
Date: 7 Feb 2010 02:05:00 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 12 Mar 2010 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1265526300@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1265526301 490 166.84.1.2 (7 Feb 2010 07:05:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 7 Feb 2010 07:05:01 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:14686 rec.radio.amateur.dx:551
rec.radio.amateur.equipment:1742 rec.radio.amateur.homebrew:3108
rec.radio.amateur.misc:4602 rec.radio.amateur.policy:25203 rec.radio.info:1217

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment

Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |
rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

From 8813874074212411696
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 07 Feb 2010 07:27:33 -0600
Date: Sun, 07 Feb 2010 13:27:31 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 88-108MHZ BC RX 'pulled' for 137MHz Wx signals?
References: <lenseman.5b2af98@radiobanter.com> <73ee88d7-df61-490c-
bdb3-9b797fc4aca9@u9g2000yqb.googlegroups.com> <85c81b5b-2716-439d-
a836-5b03c259ac39@k19g2000yqc.googlegroups.com>
<KJqdnesLkN76MPDWnZ2dnUVZ7rhi4p2d@pipex.net>
In-Reply-To: <KJqdnesLkN76MPDWnZ2dnUVZ7rhi4p2d@pipex.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <eaydnfACC8lYIvPWnZ2dnUVZ_gSdnZ2d@bright.net>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-AZj3RRPc5RV30+mP12ON22UvnYHp/
lUzXgtPxpD0oqzD4OIhJm51IgLCUxE1hDmSed1H6D9a4Dm5esl!vUqtQIe1Okd+gnE/
p+qOOAkuDBKAnQmsExdCZrSWEL1awLWYr2ycx9/K8bomBfeetmBkKTiCvspM!gHMGY2B+YA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3109

highlandham wrote:

> ==
> A well known all included low cost FM rx chip : TDA7000
>
> Frank   GM0CSZ / KN6WH

Are those still available? Radio Shack (in the USA) used to sell them (when they used to sell electronic components). I have a pair of them somewhere from when I was going to use them as part of my wideband 10 GHz stuff back in the late 80s. Haven't seen them for sale for quite some time....not saying they AREN'T out there, though....

Scott
N0EDV

From -6297832564088261709
X-Google-Thread: 241b302a50,2370ad39c1347b0
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!

```
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 07 Feb 2010 09:17:29 -0600
Date: Sun, 07 Feb 2010 15:17:29 +0000
From: highlandham <highlandham.nospam@rfburns.eu>
User-Agent: Thunderbird 2.0.0.23 (X11/20100108)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 88-108MHZ BC RX 'pulled' for 137MHz Wx signals?
References: <lenseman.5b2af98@radiobanter.com> <73ee88d7-df61-490c-
bdb3-9b797fc4aca9@u9g2000yqb.googlegroups.com> <85c81b5b-2716-439d-
a836-5b03c259ac39@k19g2000yqc.googlegroups.com>
<KJqdnesLkN76MPDWnZ2dnUVZ7rhi4p2d@pipex.net>
<eaydnfACC8lYIvPWnZ2dnUVZ_gSdnZ2d@bright.net>
In-Reply-To: <eaydnfACC8lYIvPWnZ2dnUVZ_gSdnZ2d@bright.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <RaWdnbxaZIIURPPWnZ2dnUVZ7o6dnZ2d@pipex.net>
Lines: 25
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.110.157.35
X-Trace: sv3-
O18x+7ZDsP6jUNT99tlQ+23QPhblYH893dvbh0T5+PfOlgaRe1dFB2MFgJKsDWCvhqR1P/gL344FdcO!
5607NjSqu+U8U+rVhxcluxz129ngWc3RnScoF27Ig+HpPvoqjPGAj5T0KmCJ5NDgTZdtybpFam5s!
Qnb1ZcmK1FH6X0LG7oUXCopQIg==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3110
```

Scott wrote:

> highlandham wrote:
>
>> ==
>> A well known all included low cost FM rx chip : TDA7000
>>
>> Frank   GM0CSZ / KN6WH
>
> Are those still available? Radio Shack (in the USA) used to sell them
> (when they used to sell electronic components). I have a pair of them
> somewhere from when I was going to use them as part of my wideband 10
> GHz stuff back in the late 80s. Haven't seen them for sale for quite
> some time....not saying they AREN'T out there, though....
>
> Scott
> N0EDV

==

http://shop.ebay.co.uk/sis.html?
ssPageName=VINS:SIM&_kw=TDA7000+PHILIPS+FM+Radio+Integrated+Circuit+IC%2C+x+2+PCS&

fis=2&
id=260519532555&_isid=0&_sibeleafcat=163854

still available

Frank   GM0CSZ / KN6WH

```
From -6664548004819927823
X-Google-Thread: 241b302a50,147779b9a29d0d62,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!b9g2000pri.googlegroups.com!not-for-
mail
From: sheva lavis <suberdes@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Earth4Energy Blueprints for $27
Date: Sun, 7 Feb 2010 07:36:44 -0800 (PST)
Organization: http://groups.google.com
Lines: 8
Message-ID: <e6df3a7f-aefd-4057-9d6f-6142b931b12f@b9g2000pri.googlegroups.com>
NNTP-Posting-Host: 202.70.54.55
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1265557004 13154 127.0.0.1 (7 Feb 2010 15:36:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 7 Feb 2010 15:36:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b9g2000pri.googlegroups.com; posting-host=202.70.54.55;
     posting-account=JFSNkgkAAABUQJfnyOa3xgTK0YuWskqg
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
     rv:1.9.2a1pre) Gecko/20090717 Minefield/3.6a1pre,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3111
```

Full Access To All Earth4Energy Videos
And Tutorials For Only $27.
http://earth-4energy-review.123probiz.com
Go Green :)

Molita
Supervisor
http://www.gogonai.info/?id=molita

```
From -8695921376112335307
X-Google-Thread: 241b302a50,2370ad39c1347b0
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!usenet.stanford.edu!
```

news.kjsl.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 88-108MHZ BC RX 'pulled' for 137MHz Wx signals?
Date: Sun, 7 Feb 2010 12:24:31 -0500
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 70
Sender: et472@215-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.1002071210560.1258@darkstar.example.net>
References: <lenseman.5b2af98@radiobanter.com>
 <73ee88d7-df61-490c-bdb3-9b797fc4aca9@u9g2000yqb.googlegroups.com>
 <85c81b5b-2716-439d-a836-5b03c259ac39@k19g2000yqc.googlegroups.com>
 <KJqdnesLkN76MPDWnZ2dnUVZ7rhi4p2d@pipex.net>
<eaydnfACC8lYIvPWnZ2dnUVZ_gSdnZ2d@bright.net>
NNTP-Posting-Host: 215-215-235-64-ppp.3menatwork.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1265563546 1860 64.235.215.215 (7 Feb 2010 17:25:46 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 7 Feb 2010 17:25:46 GMT
In-Reply-To: <eaydnfACC8lYIvPWnZ2dnUVZ_gSdnZ2d@bright.net>
Xref: g2news1.google.com rec.radio.amateur.homebrew:3112

On Sun, 7 Feb 2010, Scott wrote:

> highlandham wrote:
>
>> ==
>> A well known all included low cost FM rx chip : TDA7000
>>
>> Frank   GM0CSZ / KN6WH
>
> Are those still available? Radio Shack (in the USA) used to sell them (when
> they used to sell electronic components). I have a pair of them somewhere
> from when I was going to use them as part of my wideband 10 GHz stuff back in
> the late 80s. Haven't seen them for sale for quite some time....not saying
> they AREN'T out there, though....
>

That was the odd thing about Radio Shack, they'd often have these really unusual ICs that other places didn't carry, and they'd be popular in projects so long as they were stocked by Radio Shack. And once they disappeared, it became a lot more trouble to get the ICs. On the other hand, when they were cleared out one could stock up at more reasonable prices.

All of those 99cent FM radios with the tune and reset buttons use a variant of those TDA7000. It's the same concept, convert down to an IF in the tens of KHz range and use active filters for filtering, then some sort of "frequency locked loop" to extract the contents of the signal. The ones in the 99cent radios simply have circuitry added for tuning, one button starts a ramp, it stops on a signal because there is detection circuitry, and then pressing the tune button causes it to go to the next station. Pressing reset causes the ramp to start at the beginning again.

Note that the weather satellites have narrower deviation than used on the FM broadcast band. I seem to recall narrow enough for "two way radio" equipment, but the articles would generally suggest a somewhat wider filter to compensate for doppler shift.

FM broadcast receivers may be too wide to get a good demodulation from the narrow band deviation, and their LOs may not be stable enough for the narrower signal. The latter would be fixed by using a digitally synthesized receiver, but then it would no longer be a simple matter to retune it to the new frequency.

People tended to use scanners or crystal controlled receivers for the 2M band. One article in "73" pointed out that the standard bandwidth was a tad narrow, so they bypassed the 455KHz ceramic filter, leaving a wider filter at 10.7KHz.

Of course, older equipment was set up for wider deviation and that might offer up a better choice, like those Regency scanners from the early seventies.

I don't know what's in the current crop, but older cordless phones had a 10.7MHz first IF and then a 455KHz second IF, and one could extract that IF section from the phone or the base to use with a suitable converter. There one could bypass the 455KHz ceramic filter for wider selectivity, maybe put a better filter at 10.7KHz.

TV sound IFs at 4.5MHz are narrower than FM broadcast band deviation, one might use one of those behind a converter, though one now has to look to find an old enough tv to extract the circuitry in a recognizable fashion.

Older cellphones used a similar scheme, though of course their first IF was often higher, but they often had the IF as a module to easily extract. The problem with that is one rarely sees those old and clunky cellphones anymore, and the current handheld will not have suitable circuitry.

Michael VE2BVW

From -4969384285707293397
X-Google-Thread: 241b302a50,59b80d79b1f0cd07,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p6g2000vbl.googlegroups.com!not-for-mail
From: lou <louis717@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SMX-52AC
Date: Sun, 7 Feb 2010 15:14:23 -0800 (PST)

```
Organization: http://groups.google.com
Lines: 8
Message-ID: <784e968f-5399-4a4e-acaf-ca60483b7dcf@p6g2000vbl.googlegroups.com>
NNTP-Posting-Host: 70.18.42.112
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1265584463 16137 127.0.0.1 (7 Feb 2010 23:14:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 7 Feb 2010 23:14:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p6g2000vbl.googlegroups.com; posting-host=70.18.42.112;
     posting-account=NPeLBgoAAADpe-DRtVA16hJR31fKiCz-
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2)
     Gecko/20100115 YFF35 Firefox/3.6,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3113

hi
anyone have info about a monarch tube stereo? SMX-52AC.

was monarch similar to other japanese companies such as pioneer?

thanks
louis
Lou707@msn.com



From 6033258469545273340
X-Google-Thread: 241b302a50,147779b9a29d0d62,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!u19g2000prh.googlegroups.com!not-for-
mail
From: ahmad andalusia <gogonai.dewaui@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Earth4Energy Blueprints for $27
Date: Sun, 7 Feb 2010 23:09:15 -0800 (PST)
Organization: http://groups.google.com
Lines: 8
Message-ID: <ca30afc2-aa82-4655-8b14-320baa24df4e@u19g2000prh.googlegroups.com>
NNTP-Posting-Host: 110.136.200.78
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1265612955 26385 127.0.0.1 (8 Feb 2010 07:09:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 8 Feb 2010 07:09:15 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u19g2000prh.googlegroups.com; posting-host=110.136.200.78;
     posting-account=FQh35QoAAAC3IPhGrwTHwJuD1tzZMFfe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
     AppleWebKit/532.0 (KHTML, like Gecko) Chrome/3.0.195.38 Safari/
```

532.0,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3114

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And Tutorials For Only $27.
http://earth-4energy-review.123probiz.com
Go Green :)

Dewaui
Supervisor
http://www.gogonai.info/?id:dewaui

From 4948973906374109410
X-Google-Thread: 241b302a50,300d5bf53e43b95a,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 11 Feb 2010 17:50:11 -0600
Date: Thu, 11 Feb 2010 17:44:52 -0600
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Stub-matched folded 2 band zepp - Slim Jim
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <t6Sdnb2-W9MuCunWnZ2dnUVZ_sFi4p2d@giganews.com>
Lines: 5
X-Usenet-Provider: http://www.giganews.com
X-Trace:
sv3-66bnDJDxhSVTfY2ThrzHdkcCO5vGoF30JfLTkCZjEuVb7MviLCrp+mjBHQgKyBVLumsefg+3XdT+xo
l!XUyE8wrwowMwU0P7NrzTOXnKQpS4RRJbnsNNOIJND4LOKuPEy0D/RFT1OWNAw4RNFCdF3Mk63Q==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3115

A fellow I work with showed me his new antenna buy for his handy-talky.
A slim Jim. The punch line is low angle radiation boosting apparent
gain.   I bought one too. Under $30 with feeder and connector.

Brian w

From 5875380055100587637

```
X-Google-Thread: 241b302a50,3fa437c7b08bd68e,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
feeder.erje.net!feeder.eternal-september.org!eternal-september.org!.POSTED!not-
for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Microphone needed
Date: Fri, 12 Feb 2010 13:50:05 -0600
Organization: A noiseless patient Spider
Lines: 10
Message-ID: <hl4bd7$qj9$2@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Fri, 12 Feb 2010 19:49:59 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-host="ilhoh7QFF7KRjlN9xz/
5fw";
     logging-data="27241"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+CndVif6aT41bxUqdWlEwL"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11) Gecko/
20071127 Firefox/2.0.0.11
X-Accept-Language: en-us
Cancel-Lock: sha1:L4fvvE2Guf9Fpcrx6C3f8zO1pYI=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3116
```

I need a microphone for an Icom IC-229H 2m mobile rig. I don't need a fancy mike, just one with push to talk will be fine. The mic cable should have a circular female connector with seven pins in an outside circle and one pin in the center.

I can be reached at 651-426-4144 or wa0goz@arrl.net

Thanks

Henry WA0GOZ

```
From 2672096342135897743
X-Google-Thread: 241b302a50,3fa437c7b08bd68e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!usenet.stanford.edu!
news.kjsl.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Microphone needed
Date: Fri, 12 Feb 2010 20:41:36 -0500
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 28
```

```
Sender: et472@208-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.1002122037410.31990@darkstar.example.net>
References: <hl4bd7$qj9$2@news.eternal-september.org>
NNTP-Posting-Host: 208-215-235-64-ppp.3menatwork.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1266025391 5547 64.235.215.208 (13 Feb 2010 01:43:11 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 13 Feb 2010 01:43:11 GMT
In-Reply-To: <hl4bd7$qj9$2@news.eternal-september.org>
Xref: g2news1.google.com rec.radio.amateur.homebrew:3117
```

On Fri, 12 Feb 2010, Henry wrote:

> I need a microphone for an Icom IC-229H 2m mobile rig. I don't need a
> fancy mike, just one with push to talk will be fine. The mic cable
> should have a circular female connector with seven pins in an outside
> circle and one pin in the center.
>

So you want instructions on how to make one? Get an electret capsule, one can dig them out of a variety of consumer electronics such as cheap telephones and cordless phones and 49MHz walkie talkies, likely most FRS transceivers and cellphones. You can even buy them. Then find a suitable enclosure. If it's hand held, you want a box that will fit your hand, not too large. Then find a switch that will be comfortable to operate, a lot of consumer electronics will offer up circuit board mounted switches that would be suitable if you figured out a way to mount them and activate them. Then find a cord and wire it up.

A desk microphone, you'd need to cook up some sort of gooseneck for it, but you can now even buy "computer microphones" for a few dollars that have the electret microphone and the gooseneck. Figure out a switch and wire it all up.

If you are trying to buy a microphone, there are newsgroups for that.
If you were looking for recommendations, there is at least one newsgroup for that.

   Michael VE2BVW

```
From -3321985798883487860
X-Google-Thread: 241b302a50,19a0702b65cc7618,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!feeder.eternal-september.org!eternal-september.org!.POSTED!not-
for-mail
From: "Paul_P" <REMOVE paul @ REMOVE ppinyot . REMOVEcom>
Newsgroups: rec.radio.amateur.homebrew
```

```
Subject: I am looking for a Heathkit Knob for a DX-100
Date: Fri, 12 Feb 2010 20:46:35 -0500
Organization: www.ppinyot.com
Lines: 11
Message-ID: <hl509t$jjn$1@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 13 Feb 2010 01:46:37 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-
host="n8JDNapLW2oCM50mQjT90g";
     logging-data="20087"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18MDAYPwtDbSu2/jwfJeY8n"
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18005
X-Newsreader: Microsoft Windows Mail 6.0.6002.18005
Cancel-Lock: sha1:a4iymlYutOenbg1HQ4y/WCQ4ku8=
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:3118

I have been googling around for a heathkit outer 1" knob for a tube
transmitter (DX-100).  It is this knob:
http://www.ppinyot.com/heathkit/IMG_2788.JPG
on this transmitter:   http://www.ppinyot.com/heathkit/heathkit.htm

I appreciate any help locating one.

Thanks,
Paul P.




From 6917390135916319276
X-Google-Thread: 241b302a50,218d6507e2f85d61,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
g28g2000yqh.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: project boxes
Date: Fri, 12 Feb 2010 20:35:01 -0800 (PST)
Organization: http://groups.google.com
Lines: 10
Message-ID: <5223d188-24f5-4afb-acb7-8522d61f5a38@g28g2000yqh.googlegroups.com>
NNTP-Posting-Host: 155.178.5.19
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
```

```
X-Trace: posting.google.com 1266035701 22822 127.0.0.1 (13 Feb 2010 04:35:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 13 Feb 2010 04:35:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g28g2000yqh.googlegroups.com; posting-host=155.178.5.19;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3119
```

I came by some old 1Ghz directional couplers. They were marked "Bad".
I opened up a couple of them and they look like they would make great
project boxes for preamps, osc.... etc. Inside measures aprox 3 X 1.5
X .75 and wall thickness is .25 inches. It is about a 1 lb block of
CNC machined brass. Ive seen dozens of these or similar at hamfest
that could have been had for nearly nothing. From now on Im keeping an
eye out for them.

Jimmie

```
From -7575005534123009611
X-Google-Thread: 241b302a50,3fa437c7b08bd68e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!bloom-beacon.mit.edu!micro-heart-of-gold.mit.edu!
nntp.club.cc.cmu.edu!pitt.edu!news.cse.ohio-state.edu!news.glorb.com!
news2.glorb.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 16 Feb 2010 17:12:17 -0600
From: Robert Cherry <Robert.Cherry.5c0dbb2@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Microphone needed
Date: Tue, 16 Feb 2010 21:09:26 +0000
Message-ID: <Robert.Cherry.5c0dbb2@radiobanter.com>
Organization: RadioBanter.com
References:  <hl4bd7$qj9$2@news.eternal-september.org>
Lines: 26
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-ruVu6RU/SLpmBmAPaRQmNvi2qKiPCnL/wMYQcPZm/ld8iTr17FqtY3Jq9bF/
3PTeDG59rwIZlRvAvIG!
0QyRgk77vgN4v1OvJjz8JX3aGZioWQYChhTIrmCRlF80yvzr9nfkLc89YG8fWmTnfIhI7416ZUmv!
jYPWZGRWnYZR
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
```

X-Original-Lines: 17
Xref: g2news1.google.com rec.radio.amateur.homebrew:3120

Henry;699617 Wrote:
> I need a microphone for an Icom IC-229H 2m mobile rig. I don't need a
> fancy mike, just one with push to talk will be fine. The mic cable
> should have a circular female connector with seven pins in an outside
> circle and one pin in the center.
>
> I can be reached at 651-426-4144 or wa0goz@arrl.net
>
> Thanks
>
> Henry WA0GOZ

Henry,

If Icom no longer has the appropriate mic, I suggest you try MFJ. Their
mics are at:
http://www.mfjenterprises.com/Search.php?searchit=microphones

Robert VE2AGE

--
Robert Cherry

From 4185092177013403159
X-Google-Thread: 241b302a50,3fa437c7b08bd68e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
188.40.43.213.MISMATCH!feeder.eternal-september.org!eternal-september.org!.POSTED!
not-for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Microphone needed
Date: Wed, 17 Feb 2010 09:30:34 -0600
Organization: A noiseless patient Spider
Lines: 28
Message-ID: <hlh22n$9c8$1@news.eternal-september.org>
References: <hl4bd7$qj9$2@news.eternal-september.org>
<Robert.Cherry.5c0dbb2@radiobanter.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Wed, 17 Feb 2010 15:30:31 +0000 (UTC)

```
Injection-Info: feeder.eternal-september.org; posting-host="ilhoh7QFF7KRjlN9xz/
5fw";
     logging-data="9608"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+XqTDC1coBQaJHLB1EZZmX"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11) Gecko/
20071127 Firefox/2.0.0.11
In-Reply-To: <Robert.Cherry.5c0dbb2@radiobanter.com>
X-Accept-Language: en-us
Cancel-Lock: sha1:MdYDPBtmPcGPFoyoikWWGkOkwlA=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3121

Robert Cherry wrote:
> Henry;699617 Wrote:
>
>>I need a microphone for an Icom IC-229H 2m mobile rig.  I don't need a
>>fancy mike, just one with push to talk will be fine.  The mic cable
>>should have a circular female connector with seven pins in an outside
>>circle and one pin in the center.
>>
>>I can be reached at 651-426-4144 or wa0goz@arrl.net
>>
>>Thanks
>>
>>Henry  WA0GOZ
>
>
>
> Henry,
>
> If Icom no longer has the appropriate mic, I suggest you try MFJ. Their
> mics are at:
> http://www.mfjenterprises.com/Search.php?searchit=microphones
>
> Robert VE2AGE
>
Thanks, but their tech support says their mikes are only for HF radios
  and they don't have any for 2M rigs.

Henry



From -4482547126814918545
X-Google-Thread: 241b302a50,3fa437c7b08bd68e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!f29g2000yqa.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Microphone needed
Date: Wed, 17 Feb 2010 10:05:10 -0800 (PST)
Organization: http://groups.google.com
```

```
Lines: 36
Message-ID: <99644163-c925-401a-a202-aa9cf6ef2fd9@f29g2000yqa.googlegroups.com>
References: <hl4bd7$qj9$2@news.eternal-september.org>
<Robert.Cherry.5c0dbb2@radiobanter.com>
     <hlh22n$9c8$1@news.eternal-september.org>
NNTP-Posting-Host: 75.191.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1266429910 15912 127.0.0.1 (17 Feb 2010 18:05:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 17 Feb 2010 18:05:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f29g2000yqa.googlegroups.com; posting-host=75.191.176.71;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.7)
     Gecko/20091221 Firefox/3.5.7 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3122

On Feb 17, 10:30=A0am, Henry <wa0...@arrl.net> wrote:
> Robert Cherry wrote:
> > Henry;699617 Wrote:
>
> >>I need a microphone for an Icom IC-229H 2m mobile rig. =A0I don't need =
a
> >>fancy mike, just one with push to talk will be fine. =A0The mic cable
> >>should have a circular female connector with seven pins in an outside
> >>circle and one pin in the center.
>
> >>I can be reached at 651-426-4144 or wa0...@arrl.net
>
> >>Thanks
>
> >>Henry =A0WA0GOZ
>
> > Henry,
>
> > If Icom no longer has the appropriate mic, I suggest you try MFJ. Their
> > mics are at:
> >http://www.mfjenterprises.com/Search.php?searchit=3Dmicrophones
>
> > Robert VE2AGE
>
> Thanks, but their tech support says their mikes are only for HF radios
> =A0 and they don't have any for 2M rigs.
>
> Henry

I ve repaired a couple of mikes for the 229. If its the one with the
keypad the little electrolytic caps go bad. It been a while but I
think they were 1uf tantulum.
```

```
BTW the mic on my 729 works on my 229

Jimmie



From 2379302324257511347
X-Google-Thread: 241b302a50,3fa437c7b08bd68e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!b36g2000pri.googlegroups.com!not-for-
mail
From: Stuart Longland <redhatter@gentoo.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Microphone needed
Date: Thu, 18 Feb 2010 15:07:29 -0800 (PST)
Organization: http://groups.google.com
Lines: 82
Message-ID: <8b55b3c1-c341-4386-b971-8d89f279dfc3@b36g2000pri.googlegroups.com>
References: <hl4bd7$qj9$2@news.eternal-september.org>
<Robert.Cherry.5c0dbb2@radiobanter.com>
     <hlh22n$9c8$1@news.eternal-september.org>
NNTP-Posting-Host: 123.211.42.78
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1266534449 20747 127.0.0.1 (18 Feb 2010 23:07:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 18 Feb 2010 23:07:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b36g2000pri.googlegroups.com; posting-host=123.211.42.78;
     posting-account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.2)
     Gecko/20100115 Firefox/3.6 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3123

On Feb 18, 1:30=A0am, Henry <wa0...@arrl.net> wrote:
> Robert Cherry wrote:
> > Henry;699617 Wrote:
>
> >>I need a microphone for an Icom IC-229H 2m mobile rig. =A0I don't need =
a
> >>fancy mike, just one with push to talk will be fine. =A0The mic cable
> >>should have a circular female connector with seven pins in an outside
> >>circle and one pin in the center.
>
> >>I can be reached at 651-426-4144 or wa0...@arrl.net
>
> >>Thanks
>
> >>Henry =A0WA0GOZ
>
```

> > Henry,
>
> > If Icom no longer has the appropriate mic, I suggest you try MFJ. Their
> > mics are at:
> >http://www.mfjenterprises.com/Search.php?searchit=3Dmicrophones
>
> > Robert VE2AGE
>
> Thanks, but their tech support says their mikes are only for HF radios
> =A0 and they don't have any for 2M rigs.
>
> Henry

The type of radio should make next to no difference to the microphone. The only thing with HF is that generally high power is used, thus there's the possibility of RF getting induced into the microphone signal. Appropriate usage of decoupling capacitors will nail that problem.

I wired up a computer headset to a few of my radios; namely a Yaesu FT-290R II (normally uses a dynamic mic), a Wouxun KG-UVD1P handheld (normally uses an electret mic) and my Nokia 3310 mobile phone (again; electret).

For the Yaesu, it uses an 8-pin "Foster" connector[1] like you describe for your Icom. On the Yaesu, the three pins of interest (for microphones):
- Pin 7: 0V
- Pin 8: Microphone signal
- Pin 2: 5V

According to [2], the pins you want are:
- Pin 1: Microphone
- Pin 7 & 8: 0V
- Pin 2: 9V (maybe)

Measure with a multimeter to check if pin 2 & 6 has 9V across it... if not... you can use a small 9V battery, or tap off your rig's power supply input.

```
Radio   :               Interface              :        Electret
Microphone
        :                ______                 :
V+------+---------------[______]--------o-------+-------o--------.
        :                 R1            |       :       |         |
        :                               |       :       |    | .-+-.
        :                               |       :       |    |/     \
        :                         C1 -------    : C2 ------- |       |
        :                            -------    :    ------- |\     /
        :                               |       :       |    | '-+-'
Mic-----+-------------------------------'       :       |         |
        :                                       :       |         |
0v------+---------------------------------------+-------o--------'
```

```
        :                                       :
```

That above circuit works well for interfacing the headset to the
FT-290R II, and I've had good audio reports using that setup. It
should work with most sets designed for dynamic microphones. That,
and maybe a ferrite sleeve in a strategic place, is likely all you'll
need.

The only issue I've had interfacing a headset to the device has been
my mobile phone -- GSM is shocking for inducing noise into everything,
including the microphone.

1. http://homepage.ntlworld.com/rg4wpw/8pin.jpg
2. http://homepage.ntlworld.com/rg4wpw/date.html#icom

```
From 2970882744525570582
X-Google-Thread: 241b302a50,3fa437c7b08bd68e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 18 Feb 2010 20:48:43 -0600
Date: Thu, 18 Feb 2010 20:49:04 -0600
From: sorry-spammers <""w9wi\"@(sorry-spammers)">
Organization: Ham Radio W9WI
User-Agent: Thunderbird 2.0.0.23 (X11/20090817)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Microphone needed
References: <hl4bd7$qj9$2@news.eternal-september.org>
<Robert.Cherry.5c0dbb2@radiobanter.com>   <hlh22n$9c8$1@news.eternal-
september.org> <8b55b3c1-c341-4386-b971-8d89f279dfc3@b36g2000pri.googlegroups.com>
In-Reply-To: <8b55b3c1-c341-4386-b971-8d89f279dfc3@b36g2000pri.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <FNudnWpoe6uWYeDWnZ2dnUVZ_vOdnZ2d@earthlink.com>
Lines: 35
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 4.153.67.90
X-Trace: sv3-G4bHQSSoZn2VQpEUBgEyYyHbyqj7+vlZkKmYIaFDks6t5UI1DX/
8WV6slRIvCWX3U75j07UKey4nt60!tSyt3itjqi6/
TfC93LQmUqBVfHBPJQLdjzIkmjwtRQms4+2ppa5PO0QoEZnwx23io0KgG22MP6WR!
uy7PlWB1XFo6WVdWXXXOKkG0+w==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3124
```

Stuart Longland wrote:

> Measure with a multimeter to check if pin 2 & 6 has 9V across it... if

```
> not... you can use a small 9V battery, or tap off your rig's power
> supply input.
>
> Radio   :               Interface               :        Electret
> Microphone
>         :                ______                 :
> V+------+---------------[______]--------o-------+-------o--------.
>         :                  R1           |       :       |         |
>         :                               |       :       |    | .-+-.
>         :                               |       :       |    |/     \
>         :                         C1 -------    : C2 ------- |       |
>         :                            -------    :    ------- |\     /
>         :                               |       :       |    | '-+-'
> Mic-----+-------------------------------'       :       |         |
>         :                                       :       |         |
> 0v------+---------------------------------------+-------o--------'
>         :                                       :
> That above circuit works well for interfacing the headset to the
> FT-290R II, and I've had good audio reports using that setup.  It
> should work with most sets designed for dynamic microphones.  That,
> and maybe a ferrite sleeve in a strategic place, is likely all you'll
> need.
```

I've done this with a variety of rigs (and headsets) and it works great.
Excellent reports.

The diagram is missing the component values. They aren't critical, but I use
something on the order of R1=10K ohms and C1=0.5uF.

I don't use C2. Is it for RF immunity? I've only used this circuit on HF & while
I do run high power, my antenna is nearly 60m from the shack.

--

Doug Smith W9WI
Pleasant View, TN EM66

From 1019572983205679341
X-Google-Thread: 241b302a50,8c349b671dcc2c5d,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.glorb.com!feeder.erje.net!feeder.eternal-september.org!eternal-september.org!.POSTED!not-for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Test meters for sale
Date: Thu, 18 Feb 2010 22:59:00 -0600
Organization: A noiseless patient Spider
Lines: 21
Message-ID: <hll5qf$dek$1@news.eternal-september.org>

```
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Fri, 19 Feb 2010 04:58:55 +0000 (UTC)
Injection-Info: news.motzarella.org; posting-host="ilhoh7QFF7KRjlN9xz/5fw";
     logging-data="13780"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/+5oMDdJJMk8lrrtsY0rnk"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11) Gecko/
20071127 Firefox/2.0.0.11
X-Accept-Language: en-us
Cancel-Lock: sha1:tgYiB31COhdzigQ+/gCOOBBhyEw=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3125

Here is a list of Simpson meters I have for sale and the prices
I'm asking as a starting point.

Model 362 Low Range Ohm Meter   0-5 and 0-25 ohms    $20

Model 390 Watt and Ampmeter   300-3000W and 3&15A     $30

Model 260 VOM with mirrored scale            $60

All items plus postage in USA only.



Photos of all can be seen at:

http://home.comcast.net/~hsknoll/site/?/photos/

click on the images to enlarge them.

I can be reached at either wa0goz@arrl.net  or 651-426-4144.  Ask for
Henry.


From -3932377554072714418
X-Google-Thread: 241b302a50,b8072274c7bee18a,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y7g2000prc.googlegroups.com!not-for-
mail
From: jew <coblianda79@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FREE Real Estate Training...
Date: Fri, 19 Feb 2010 09:28:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 73
Message-ID: <33b904d8-130c-4667-b898-6199bbfa670a@y7g2000prc.googlegroups.com>
NNTP-Posting-Host: 112.202.112.92
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
```

```
X-Trace: posting.google.com 1266600508 7733 127.0.0.1 (19 Feb 2010 17:28:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 19 Feb 2010 17:28:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y7g2000prc.googlegroups.com; posting-host=112.202.112.92;
     posting-account=vJbBNQoAAACnc8EzW5ZPEmliApVk_Y3p
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2)
     Gecko/20100115 Firefox/3.6,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3126
```

Think about it...

- How many trainings have you attended in the past?

- How many teleseminars have you listened to?

- How many books have you read?

...and after all those opportunities to learn, what do you have to show for it?

We've been forced to put this training together differently because...

...the old ways weren't really working!

That's why we've pulled together ten super successful real estate investors and asked them to share with you their "real stuff"...

==> http://www.TheRealEstatePlayers.com

This 10-Week Advanced Course is:

- Stretched out over ten training sessions. It will allow you to learn, and then have time to think about, analyze, and implement each tactic before the next call.

- A complete program covering many areas of investing in real estate. From finding deals to finding money to buy them we've covered all the bases.

- Setup for YOUR success - We've put together a Back Office area specifically so you can re-listen to each trainer's specific strategies.

We have setup an enviroment where you

can actually learn and implement the strategies
you hear. We want you to turn your annual income
into a monthly income!

271 FREE spots remain, grab yours now!

==> http://www.TheRealEstatePlayers.com

Hope to see you there.

P.S. Not sure if this is for you? I understand your
hesitation. But consider this: Think about all the
top investors you know for a moment.

Haven't you always wanted to know what strategies and
methods they are using to make their money in real
estate? Do you see any change in the strategies at all
from what they were doing even one short year ago?

Of course you do!

Do they know something you don't know? Or do you think
they're losing money hand over fist? You obviously
recognize the importance of a competitive advantage.

So why in the world haven't you registered yet?

Don't be one of the unfortunate few that are left behind!

=> http://www.TheRealEstatePlayers.com

From 5283825932721570660
X-Google-Thread: 241b302a50,ffe642f2288f32fd,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p13g2000pre.googlegroups.com!not-for-mail
From: Dodik Dwi Sancoko <dod.gogonai@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Earth4Energy Blueprints for $27
Date: Fri, 19 Feb 2010 16:56:40 -0800 (PST)
Organization: http://groups.google.com
Lines: 9
Message-ID: <be154db3-476a-44a1-b532-c8e789454c09@p13g2000pre.googlegroups.com>
NNTP-Posting-Host: 202.70.58.157
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1266627400 826 127.0.0.1 (20 Feb 2010 00:56:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 20 Feb 2010 00:56:40 +0000 (UTC)

Complaints-To: groups-abuse@google.com
Injection-Info: p13g2000pre.googlegroups.com; posting-host=202.70.58.157;
posting-account=Eo6tkQoAAACeBOPQDaBVdTMff1A0mD-I
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.5)
Gecko/20041107 Firefox/1.0,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3127

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http://earth-4energy-review.123probiz.com

Go Green :)

Dodik Dwi Sancoko
Supervisor
http://www.gogonai.info/?id:dodgogonai

From -4527746981594609278
X-Google-Thread: 241b302a50,ae1f4ffc0b94c3ab,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g19g2000yqe.googlegroups.com!not-for-mail
From: volleybiggs <volleybiggs@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Can a Wireless Speaker Transmitter be turned into FM transmitter
Date: Sat, 20 Feb 2010 14:42:38 -0800 (PST)
Organization: http://groups.google.com
Lines: 7
Message-ID: <a042bcb6-edbe-4c23-a782-a7b7860d7dbd@g19g2000yqe.googlegroups.com>
NNTP-Posting-Host: 74.163.76.202
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1266705758 11566 127.0.0.1 (20 Feb 2010 22:42:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 20 Feb 2010 22:42:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g19g2000yqe.googlegroups.com; posting-host=74.163.76.202;
posting-account=uS6ZPQoAAADS9XAdWbhKdCC6X-0jqhlt
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win 9x 4.90; en-US; rv:1.8.0.12)
Gecko/20070508 Firefox/1.5.0.12,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3128

I have an ok FM transmitter goes about 30 or 40 feet. I also have a
Jensen Wireless 900mhz for speakers. I read where the Jensen uses a
2.4mhz signal. Is there a part I can take off my FM transmitter so the
Jensen can tranmit on 88.9-179?

Thanks!

J

From -4543667724337637506
X-Google-Thread: 241b302a50,ae1f4ffc0b94c3ab
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
69.16.185.51.MISMATCH!isp-post01.iad!not-for-mail
Date: Sun, 21 Feb 2010 19:58:00 -0500
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.7) Gecko/
20100111 Thunderbird/3.0.1
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Can a Wireless Speaker Transmitter be turned into FM transmitter
References: <a042bcb6-edbe-4c23-a782-a7b7860d7dbd@g19g2000yqe.googlegroups.com>
In-Reply-To: <a042bcb6-edbe-4c23-a782-a7b7860d7dbd@g19g2000yqe.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 16
Message-ID: <4b81d691$0$4854$9a6e19ea@unlimited.newshosting.com>
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
NNTP-Posting-Host: 70.121.42.156
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:3129

On 2/20/2010 5:42 PM, volleybiggs wrote:
> I have an ok FM transmitter goes about 30 or 40 feet. I also have a
> Jensen Wireless 900mhz for speakers. I read where the Jensen uses a
> 2.4mhz signal. Is there a part I can take off my FM transmitter so the
> Jensen can tranmit on 88.9-179?
>
> Thanks!
> J

Nope!

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Use only Genuine Interocitor Parts" Tom Servo ;-P

From -1886371662281615889
X-Google-Thread: 241b302a50,3fa437c7b08bd68e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII

```
Path: g2news1.google.com!postnews.google.com!k6g2000prg.googlegroups.com!not-for-
mail
From: Stuart Longland <redhatter@gentoo.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Microphone needed
Date: Sun, 21 Feb 2010 20:17:46 -0800 (PST)
Organization: http://groups.google.com
Lines: 67
Message-ID: <e9875467-1fef-4c23-8f7c-c7286157099f@k6g2000prg.googlegroups.com>
References: <hl4bd7$qj9$2@news.eternal-september.org>
<Robert.Cherry.5c0dbb2@radiobanter.com>
     <hlh22n$9c8$1@news.eternal-september.org> <8b55b3c1-c341-4386-
b971-8d89f279dfc3@b36g2000pri.googlegroups.com>
     <FNudnWpoe6uWYeDWnZ2dnUVZ_vOdnZ2d@earthlink.com>
NNTP-Posting-Host: 123.211.42.78
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1266812267 13511 127.0.0.1 (22 Feb 2010 04:17:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 22 Feb 2010 04:17:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k6g2000prg.googlegroups.com; posting-host=123.211.42.78;
     posting-account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.2)
     Gecko/20100115 Firefox/3.6 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3130

On Feb 19, 12:49=A0pm, sorry-spammers <""w9wi\"@(sorry-spammers)">
wrote:
> Stuart Longland wrote:
> > Measure with a multimeter to check if pin 2 & 6 has 9V across it... if
> > not... you can use a small 9V battery, or tap off your rig's power
> > supply input.
>
> > Radio =A0 : =A0 =A0 =A0 =A0 =A0 =A0 =A0 Interface =A0 =A0 =A0 =A0 =A0 =
=A0 =A0 : =A0 =A0 =A0 =A0Electret
> > Microphone
> > =A0 =A0 =A0 =A0 : =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0______ =A0 =A0 =A0 =A0=
 =A0 =A0 =A0 =A0 :
> > V+------+---------------[______]--------o-------+-------o--------.
> > =A0 =A0 =A0 =A0 : =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0R1 =A0 =A0 =A0 =A0=
 =A0 | =A0 =A0 =A0 : =A0 =A0 =A0 | =A0 =A0 =A0 =A0 |
> > =A0 =A0 =A0 =A0 : =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =
=A0 =A0 | =A0 =A0 =A0 : =A0 =A0 =A0 | =A0 =A0| .-+-.
> > =A0 =A0 =A0 =A0 : =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =
=A0 =A0 | =A0 =A0 =A0 : =A0 =A0 =A0 | =A0 =A0|/ =A0 =A0 \
> > =A0 =A0 =A0 =A0 : =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 C1 --=
----- =A0 =A0: C2 ------- | =A0 =A0 =A0 |
> > =A0 =A0 =A0 =A0 : =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =
=A0------- =A0 =A0: =A0 =A0------- |\ =A0 =A0 /
> > =A0 =A0 =A0 =A0 : =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =
=A0 =A0 | =A0 =A0 =A0 : =A0 =A0 =A0 | =A0 =A0| '-+-'
> > Mic-----+------------------------------' =A0 =A0 =A0 : =A0 =A0 =A0 | =
=A0 =A0 =A0 =A0 |
> > =A0 =A0 =A0 =A0 : =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =
=A0 =A0 =A0 =A0 =A0 =A0 : =A0 =A0 =A0 | =A0 =A0 =A0 =A0 |
> > 0v------+------------------------------------+-------o--------'
> > =A0 =A0 =A0 =A0 : =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =
=A0 =A0 =A0 =A0 =A0 =A0 :
> > That above circuit works well for interfacing the headset to the
> > FT-290R II, and I've had good audio reports using that setup. =A0It
> > should work with most sets designed for dynamic microphones. =A0That,
> > and maybe a ferrite sleeve in a strategic place, is likely all you'll
> > need.
>
> I've done this with a variety of rigs (and headsets) and it works great. =
=A0Excellent reports.
>
> The diagram is missing the component values. =A0They aren't critical, but=
 I use something on the order of R1=3D10K ohms and C1=3D0.5uF.
>
> I don't use C2. =A0Is it for RF immunity? =A0I've only used this circuit =
on HF & while I do run high power, my antenna is nearly 60m from the shack.
>
> --
>
> Doug Smith W9WI
> Pleasant View, TN =A0EM66

Well, component values are dependent on what you're using... but
10kOhm for R1 and anything between 10nF and 1uF is suitable for C1.
C2 is an EMI supression thing... I have gotten away without it on
radio, but I found I got *lots* of complaints when I tried to use a
headset lacking C2 on my Nokia 3310 mobile phone.  (I did have C2, but
I had it down near the plug in the phone.)  If you take apart a GSM
mobile hands-free kit, you'll see a small chip capacitor soldered on
the back of the electret capsule.

http://pinouts.ru/CellularPhones-Nokia/nokia_headset_pinout.shtml
describes the schematic, and my usage is based on this. :-)

On amateur radio, it can't hurt, and can only make your signal better
IMO... I think Heil and other companies do a similar thing for
electret microphones.


From 1118426516938390592
X-Google-Thread: 241b302a50,3fa437c7b08bd68e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!npeer02.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
```

local2.nntp.dca.giganews.com!nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 21 Feb 2010 23:31:12 -0600
Date: Sun, 21 Feb 2010 23:31:35 -0600
From: sorry-spammers <""w9wi\"@(sorry-spammers)">
Organization: Ham Radio W9WI
User-Agent: Thunderbird 2.0.0.23 (X11/20090817)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Microphone needed
References: <hl4bd7$qj9$2@news.eternal-september.org> <Robert.Cherry.5c0dbb2@radiobanter.com> <hlh22n$9c8$1@news.eternal-september.org> <8b55b3c1-c341-4386-b971-8d89f279dfc3@b36g2000pri.googlegroups.com> <FNudnWpoe6uWYeDWnZ2dnUVZ_vOdnZ2d@earthlink.com> <e9875467-1fef-4c23-8f7c-c7286157099f@k6g2000prg.googlegroups.com>
In-Reply-To: <e9875467-1fef-4c23-8f7c-c7286157099f@k6g2000prg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <-4ydndM958w8ix_WnZ2dnUVZ_qudnZ2d@earthlink.com>
Lines: 25
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 4.153.65.13
X-Trace: sv3-58oj9WXonwBCPMIwmIz7TbFx8ibj1/En7VU61xBWyVrFLoQsnbycwKtvj8RtMAbsi69pdvflzIsvX/z!VDRH47B2nGDh/ygEK5t2eHFqRl2EkkQ2iN1Waq25lSs9p11TlFH5BP+rre0aBqpSdLnaA7K8x7Uj!op2oVAqyX/MopjPiz70LZ8cFWg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3131

Stuart Longland wrote:
> C2 is an EMI supression thing... I have gotten away without it on
> radio, but I found I got *lots* of complaints when I tried to use a
> headset lacking C2 on my Nokia 3310 mobile phone. (I did have C2, but
> I had it down near the plug in the phone.) If you take apart a GSM
> mobile hands-free kit, you'll see a small chip capacitor soldered on
> the back of the electret capsule.

Ah. I've not tried that circuit on VHF, let alone UHF, let alone a phone, but I'm quite familiar with the mess a mobile phone can make of a microphone signal!

(I work for a TV station. Our newsreaders used to think if they turned off the ringer, they could leave their phones in their pockets while on the air. Two or three interrupted stories later, they learned to leave their phones in their office....)

> On amateur radio, it can't hurt, and can only make your signal better
> IMO... I think Heil and other companies do a similar thing for
> electret microphones.

What value are you using? (I would suppose something on the order of 500pF would
be adequate. I've seen people use rather large values in an attempt
to reduce HF audio response..)

--

Doug Smith W9WI
Pleasant View, TN EM66

From -2139391268057092330
X-Google-Thread: 241b302a50,ae1f4ffc0b94c3ab
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 21 Feb 2010 23:33:31 -0600
Date: Sun, 21 Feb 2010 23:33:57 -0600
From: sorry-spammers <""w9wi\"@(sorry-spammers)">
Organization: Ham Radio W9WI
User-Agent: Thunderbird 2.0.0.23 (X11/20090817)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Can a Wireless Speaker Transmitter be turned into FM transmitter
References: <a042bcb6-edbe-4c23-a782-a7b7860d7dbd@g19g2000yqe.googlegroups.com>
In-Reply-To: <a042bcb6-edbe-4c23-a782-a7b7860d7dbd@g19g2000yqe.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <-4ydndI958ywih_WnZ2dnUVZ_qti4p2d@earthlink.com>
Lines: 14
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 4.153.65.13
X-Trace: sv3-781cg3AIHjBavfNv+95RBYV+7tohfYYzWaHn25X2gKZN9ld6uI7f7QEQZVa/aOJ/
zrNUEmHi2IjNfR8!
9UEFBUNo5gFGtG7VdMF5f9ApT4NMeGW3Hx7x4jVCUufl0zl4yEaQX6AvVqey5DJTv1HCC3bn+4we!
RfzJC0z/61LJf+eVmnFtvky1Dw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3132

volleybiggs wrote:
> I have an ok FM transmitter goes about 30 or 40 feet. I also have a
> Jensen Wireless 900mhz for speakers. I read where the Jensen uses a
> 2.4mhz signal. Is there a part I can take off my FM transmitter so the
> Jensen can tranmit on 88.9-179?

I'm afraid not, you're not going to be able to pull the frequency that far.

(even if you could, there's a good chance the Jensen unit doesn't transmit a signal that's compatible with FM radios)

--

Doug Smith W9WI
Pleasant View, TN EM66

```
From -3108669536904427033
X-Google-Thread: 241b302a50,3fa437c7b08bd68e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!t9g2000prh.googlegroups.com!not-for-
mail
From: Stuart Longland <redhatter@gentoo.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Microphone needed
Date: Mon, 22 Feb 2010 17:32:10 -0800 (PST)
Organization: http://groups.google.com
Lines: 37
Message-ID: <da19e235-c5de-4435-9bf2-052b55ea26ee@t9g2000prh.googlegroups.com>
References: <hl4bd7$qj9$2@news.eternal-september.org>
<Robert.Cherry.5c0dbb2@radiobanter.com>
     <hlh22n$9c8$1@news.eternal-september.org> <8b55b3c1-c341-4386-
b971-8d89f279dfc3@b36g2000pri.googlegroups.com>
     <FNudnWpoe6uWYeDWnZ2dnUVZ_vOdnZ2d@earthlink.com> <e9875467-1fef-4c23-8f7c-
c7286157099f@k6g2000prg.googlegroups.com>
     <-4ydndM958w8ix_WnZ2dnUVZ_qudnZ2d@earthlink.com>
NNTP-Posting-Host: 123.211.42.78
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1266888730 13129 127.0.0.1 (23 Feb 2010 01:32:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 23 Feb 2010 01:32:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t9g2000prh.googlegroups.com; posting-host=123.211.42.78;
     posting-account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.2)
     Gecko/20100115 Firefox/3.6 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3133
```

On Feb 22, 3:31=C2=A0pm, sorry-spammers <""w9wi\"@(sorry-spammers)"> wrote:
>
> Ah. =C2=A0I've not tried that circuit on VHF, let alone UHF, let alone a =
phone, but I'm quite familiar with the mess a mobile phone can make of a
> microphone signal!

Yep, strangely the arrangement sans C2 was fine for 70cm doing 4W
FM... but not okay on 900MHz doing ~100mW GSM signalling. The joys of
GMSK at 9600 baud.

```
> (I work for a TV station. =C2=A0Our newsreaders used to think if they tur=
ned off the ringer, they could leave their phones in their pockets while on=
 the
> air. =C2=A0Two or three interrupted stories later, they learned to leave =
their phones in their office....)

Hmmm, buzz buzz... "Ohh, sorry about that interruption, that was my
phone."  Ooops!

> > On amateur radio, it can't hurt, and can only make your signal better
> > IMO... I think Heil and other companies do a similar thing for
> > electret microphones.
>
> What value are you using? =C2=A0(I would suppose something on the order o=
f 500pF would be adequate. =C2=A0I've seen people use rather large values i=
n an attempt
> to reduce HF audio response..)

Usually some nominal value... the doc I linked to recommend a 10nF.  I
have no idea what some of them are using, but anywhere between 10nF to
100nF would be sufficient.

If you want to be truly scientific about it, you can pick a frequency
and dimension the capacitor so that Z=3D1/(j=CF=89C) is sufficiently high t=
o
not matter <10kHz and approaching 0=CE=A9 at the frequency of interest.  I
like the suck-it-and-see approach for this application however. :-)



From -5319233298281095310
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!b9g2000pri.googlegroups.com!not-for-
mail
From: Stuart Longland VK4MSL <me@vk4msl.yi.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Stub-matched folded 2 band zepp - Slim Jim
Date: Mon, 22 Feb 2010 20:10:56 -0800 (PST)
Organization: http://groups.google.com
Lines: 12
Message-ID: <7a812157-9cc3-45dc-85c1-90b8561357f4@b9g2000pri.googlegroups.com>
References: <t6Sdnb2-W9MuCunWnZ2dnUVZ_sFi4p2d@giganews.com>
NNTP-Posting-Host: 123.211.42.78
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-7
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1266898258 26316 127.0.0.1 (23 Feb 2010 04:10:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 23 Feb 2010 04:10:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b9g2000pri.googlegroups.com; posting-host=123.211.42.78;
     posting-account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.2)
     Gecko/20100115 Firefox/3.6 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3134
```

On Feb 12, 9:44=A0am, brian whatcott <betw...@sbcglobal.net> wrote:

> A fellow I work with showed me his new antenna buy for his handy-talky.
> A slim Jim. The punch line is low angle radiation boosting apparent
> gain. =A0 I bought one too. Under $30 with feeder and connector.
>
> Brian w

My first homebrew antenna (and my first antenna other than the rubber ducky that came with my handheld) was a Slim-Jim J-pole. You can make them up for about $2 or so... 300=D9 television ribbon cable, some coax, and a connector. There are a few construction guides on the 'net, and I can vouch for their performance.

```
From 6137026970831926480
X-Google-Thread: 241b302a50,1940eb638f3decef,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!feed-
me.highwinds-media.com!nntp.club.cc.cmu.edu!feeder.erje.net!feeder.news-
service.com!cyclone01.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf01.ams.highwinds-media.com!newsfe23.ams2.POSTED!7564ea0f!not-for-mail
From: "Barett" <barett@blueyonder.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: PSU problem help needed
Lines: 39
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <Id6hn.196047$0M5.137565@newsfe23.ams2>
NNTP-Posting-Host: 94.169.121.99
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe23.ams2 1267003368 94.169.121.99 (Wed, 24 Feb 2010 09:22:48 UTC)
NNTP-Posting-Date: Wed, 24 Feb 2010 09:22:48 UTC
Organization: virginmedia.com
Date: Wed, 24 Feb 2010 09:22:57 -0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:3135
```

Hi

I have a Watson W-30am 30-35 Amp peak power supply.

After using an IC-706 running 30-40 Watts on PSK31 for a few hours the power supply starts making a very load buzz/hum on keying the radio. The noise decrease's and increases turning the power up and down on the radio itself.

I have also notice the buzz/hum is still there when the radio is disconnected and a small load say 1 Amp connected to the PSU, although the noise is a lot quieter. So I don't think that the radio causing it.

When I start it all up the next morning the power supply is running fine again, no noise until I have been keying the radio in PSK31 mode for several hours when the very load concerning buzz/hum starts again.

The power supply has a top case fan that draws the heat out of the case and the power supply case doesn't feel hot to the touch. When the load noise occurs

Does anyone have any thoughts what could be causing this?

Thanks for any advise or help in advance.

```
From -7513784215617626343
X-Google-Thread: 241b302a50,1940eb638f3decef
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 24 Feb 2010 05:13:38 -0600
Date: Wed, 24 Feb 2010 11:13:36 +0000
From: highlandham <highlandham.nospam@rfburns.eu>
User-Agent: Thunderbird 2.0.0.23 (X11/20100108)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PSU problem help needed
References: <Id6hn.196047$0M5.137565@newsfe23.ams2>
In-Reply-To: <Id6hn.196047$0M5.137565@newsfe23.ams2>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <xoudnWAU0ex_lBjWnZ2dnUVZ7tGdnZ2d@pipex.net>
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NNTP-Posting-Host: 88.110.157.35
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UIS2IJEbZVVS6WIXBGbnYLVFW8ep77QNp/RtrlEE!
EokUpZ20gJZPwENI+9H9tAoN2iVlpbxLGh4QTLBZri7YLrAnjTu5qIFaCC7d4cNRm9I/Jqs634ri!
erxNHNy5lzpFyJdUZfLig1M/gQ==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3136

Barett wrote:
> Hi
>
>
>
> I have a Watson W-30am 30-35 Amp peak power supply.
>
>
>
> After using an IC-706 running 30-40 Watts on PSK31 for a few hours the power
> supply starts making a very load buzz/hum on keying the radio. The noise
> decrease's and increases turning the power up and down on the radio itself.
>
>
>
> I have also notice the buzz/hum is still there when the radio is
> disconnected and a small load say 1 Amp connected to the PSU, although the
> noise is a lot quieter. So I don't think that the radio causing it.
>
>
>
> When I start it all up the next morning the power supply is running fine
> again, no noise until I have been keying the radio in PSK31 mode for several
> hours when the very load concerning buzz/hum starts again.
>
>
>
> The power supply has a top case fan that draws the heat out of the case and
> the power supply case doesn't feel hot to the touch. When the load noise
> occurs
>
>
>
> Does anyone have any thoughts what could be causing this?
>
>
>
> Thanks for any advise or help in advance.

>
>
==
1) Is the PSU for 50Hz or could it be for the American market to operate at 60Hz   Transformers for 60Hz don't like to be fed with 50Hz AC especially when they are marginally designed. For 60Hz the laminated core can be made smaller than for the lower 50Hz frequency.

2) If the PSU is switched on WITHOUT ANY LOAD for a number of hours will it (the transformer) also start humming after some time ?

3) When humming is the transformer warm/hot ?

4) If you have a variac (auto-transformer with adjustable output) connect it to the PSU when it is humming and (without any load) reduce the AC input voltage to the PSU.   Will the humming then stop and if so at which voltage ?

5) All the above assumes the PSU is NOT of the switch mode variety.

Frank   GM0CSZ / KN6WH

From -8639743362351750007
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 24 Feb 2010 06:33:30 -0600
Date: Wed, 24 Feb 2010 12:33:28 +0000
From: highlandham <highlandham.nospam@rfburns.eu>
User-Agent: Thunderbird 2.0.0.23 (X11/20100108)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PSU problem help needed
References: <Id6hn.196047$0M5.137565@newsfe23.ams2> <xoudnWAU0ex_lBjWnZ2dnUVZ7tGdnZ2d@pipex.net>
In-Reply-To: <xoudnWAU0ex_lBjWnZ2dnUVZ7tGdnZ2d@pipex.net>
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Content-Transfer-Encoding: 7bit
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```
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3137

highlandham wrote:
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>> Hi
>>
>>
>>
>> I have a Watson W-30am 30-35 Amp peak power supply.
>>
>>
>>
>> After using an IC-706 running 30-40 Watts on PSK31 for a few hours the
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>>
>> I have also notice the buzz/hum is still there when the radio is
>> disconnected and a small load say 1 Amp connected to the PSU, although
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>>
>>
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>> fine again, no noise until I have been keying the radio in PSK31 mode
>> for several hours when the very load concerning buzz/hum starts again.
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>> The power supply has a top case fan that draws the heat out of the
>> case and the power supply case doesn't feel hot to the touch. When the
>> load noise occurs
>>
>>
>>
>> Does anyone have any thoughts what could be causing this?
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>>
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>> Thanks for any advise or help in advance.
>>
>>
> ==================================================
> 1) Is the PSU for 50Hz or could it be for the American market to operate
> at 60Hz   Transformers for 60Hz don't like to be fed with 50Hz AC
```

> especially when they are marginally designed. For 60Hz the laminated
> core can be made smaller than for the lower 50Hz frequency.
>
> 2) If the PSU is switched on WITHOUT ANY LOAD for a number of hours
> will it (the transformer) also start humming after some time ?
>
> 3) When humming is the transformer warm/hot ?
>
> 4) If you have a variac (auto-transformer with adjustable output)
> connect it to the PSU when it is humming and (without any load) reduce
>   the AC input voltage to the PSU.   Will the humming then stop and if
> so at which voltage ?
>
> 5) All the above assumes the PSU is NOT of the switch mode variety.
>
>
>
> Frank   GM0CSZ / KN6WH
===
Sorry , I missed the first line of the message . The Watson 30 am is a
traditional power transformer based PSU for the UK market , hence for 50
Hz ,no doubt.
It is still important to check the transformer temperature ,before as
well as after humming/buzzing has commenced.
Also check the electrolytic (buffer)capacitor(s) connected to the output
of the (bridge?) rectifier.

Again ,sorry for my oversight

Frank   GM0CSZ / KN6WH

From -8542749440884930071
X-Google-Thread: 241b302a50,1940eb638f3decef
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!t31g2000prh.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PSU problem help needed
Date: Wed, 24 Feb 2010 11:53:18 -0800 (PST)
Organization: http://groups.google.com
Lines: 37
Message-ID: <6efb7f6a-71db-49a8-bef6-e409a86eda8b@t31g2000prh.googlegroups.com>
References: <Id6hn.196047$0M5.137565@newsfe23.ams2>
NNTP-Posting-Host: 75.191.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com

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Complaints-To: groups-abuse@google.com
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User-Agent: G2/1.0
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     Gecko/20100202 Firefox/3.5.8 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3138

On Feb 24, 4:22=A0am, "Barett" <bar...@blueyonder.co.uk> wrote:
> Hi
>
> I have a Watson W-30am 30-35 Amp peak power supply.
>
> After using an IC-706 running 30-40 Watts on PSK31 for a few hours the po=
wer
> supply starts making a very load buzz/hum on keying the radio. =A0The noi=
se
> decrease's and increases turning the power up and down on the radio itsel=
f.
>
> I have also notice the buzz/hum is still there when the radio is
> disconnected and a small load say 1 Amp connected to the PSU, although th=
e
> noise is a lot quieter. So I don't think that the radio causing it.
>
> When I start it all up the next morning the power supply is running fine
> again, no noise until I have been keying the radio in PSK31 mode for seve=
ral
> hours when the very load concerning buzz/hum starts again.
>
> The power supply has a top case fan that draws the heat out of the case a=
nd
> the power supply case doesn't feel hot to the touch. When the load noise
> occurs
>
> Does anyone have any thoughts what could be causing this?
>
> Thanks for any advise or help in advance.

I would start by tightening bolts and screws on and around the
transformer. I had a similar problem and it was a loose screw a couple
of inches away from the transformer. Keying the Tx would sometimes
cause the problem to come or go.

Jimmie


From -5832009598495519548
X-Google-Thread: 241b302a50,1940eb638f3decef
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
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Path: g2news1.google.com!postnews.google.com!j27g2000yqn.googlegroups.com!not-for-mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PSU problem help needed
Date: Wed, 24 Feb 2010 16:25:25 -0800 (PST)
Organization: http://groups.google.com
Lines: 33
Message-ID: <a22b0154-c691-4e24-bbfa-0ca3cd5fb2ef@j27g2000yqn.googlegroups.com>
References: <Id6hn.196047$0M5.137565@newsfe23.ams2> <6efb7f6a-71db-49a8-bef6-e409a86eda8b@t31g2000prh.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 25 Feb 2010 00:25:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j27g2000yqn.googlegroups.com; posting-host=142.162.128.246;
posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
GTB6.4),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3139

==

With reference to that;

"Is the PSU for 50Hz or could it be for the American market to operate
at 60Hz   Transformers for 60Hz don't like to be fed with 50Hz AC especially when they are marginally designed. For 60Hz the laminated core can be made smaller than for the lower 50Hz frequency."

Recall reading about a DXpedition to some tropical 50 cycle island many, many years ago by a US ham team.
Their transceiver had a built in US style PS. They found they had to down-rate the power output and at one point had the covers off and damp rags applied to the transformer attempting to keep it cool. That btw was before the days of 'switching' PS.

Which leads to a question:
Q: If the supply frequency is higher than original design, say 60 instead of 50, i.e. 60/50 = freq. ratio 1.2
What would be the increased power handling capability at the higher frequency?
Maybe that ratio squared? i.e. 1.44 times power handling???? Or????

Another reason for asking is that I have an old either 20 or 25 cycle/hertz TV transformer from the 1950s. It was so much bigger than the 60hz. version that it was mounted out of the metal chassis and attached to the wooden cabinet base .... ooh; me aching

back!!!!! That Trans. must be at least twice the weight (maybe
weighing it would be best policy?).

Comments appreciated. TIA

From -5593409416424452872
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 25 Feb 2010 06:08:48 -0600
Date: Thu, 25 Feb 2010 12:08:47 +0000
From: highlandham <highlandham.nospam@rfburns.eu>
User-Agent: Thunderbird 2.0.0.23 (X11/20100108)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PSU problem help needed
References: <Id6hn.196047$0M5.137565@newsfe23.ams2> <6efb7f6a-71db-49a8-bef6-
e409a86eda8b@t31g2000prh.googlegroups.com> <a22b0154-c691-4e24-
bbfa-0ca3cd5fb2ef@j27g2000yqn.googlegroups.com>
In-Reply-To: <a22b0154-c691-4e24-bbfa-0ca3cd5fb2ef@j27g2000yqn.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
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MXtAld6J5vjnqKhLJKUJTJOzE9aABR859iyf1PBybDet2pUocG3SR1DmvDOh+DHRyV!
2Kz2hAjRTpuslal4sY5BUTxZMA==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3140

terry wrote:
> ==
>
> With reference to that;
>
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> operate
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> core can be made smaller than for the lower 50Hz frequency."
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> many, many years ago by a US ham team.
> Their transceiver had a built in US style PS. They found they had to
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> back!!!!! That Trans. must be at least twice the weight (maybe
> weighing it would be best policy?).
>
> Comments appreciated. TIA
>

==

A 50Hz power transformer happily works on 60 Hz but not the other way
around. A 60Hz transformer is permitted to have a smaller laminated core
than a transformer for a lower frequency ,it is a matter of magnetic flux.
In the valve (tube) era aircraft had a 400Hz onboard AC system ,meaning
smaller hence lighter transformers saving weight.

That's why switch mode power supply units operating at 100kHz or perhaps
higher frequencies have relatively small (ferrite) transformers ,hence
the low weight of these units compared with laminated transformer
equipped 'linear PSUs' of the same power rating.

A number of years ago I acquired a US made Astron RS-50A 13.8v PSU
.........very heavy.
Underneath the 220V sticker label the case printed label shows 115V
BTW the primary transformer winding can clearly be connected to a US
230V-60Hz supply
When connecting the unit to the UK (nominal)230V-50Hz supply system the
house magnetic circuit breaker for that group of outlet sockets usually
trips (no 13.8 V load attached)
If no trip occurs the unit buzzes heavily ,possibly   because the
transformer is very close to the metal enclosure .

The switch-on trip problem can possibly be overcome using a 20-50 Ohms
high power resistor in series with the primary transformer winding which
is subsequently shorted by a relais contact after say 1 second .
This system limits the high inrush current caused by initial charging of
the high capacity electrolytic capacitors .

But it is clear to me that the high power transformer designed for 60Hz

is unsuitable for 50Hz and having found a suitable 50Hz transformer of
roughly the same rating ,I'll replace the US made transformer with this
for 50Hz designed unit .

Frank   GM0CSZ / KN6WH

PS : I'll happily donate the US made 60Hz transformer to anybody
collecting it from my QTH in the north of Scotland.

```
From 3664458111960697362
X-Google-Thread: 241b302a50,1940eb638f3decef
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
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news.highwinds-media.com!feed-me.highwinds-media.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 25 Feb 2010 06:30:42 -0600
Date: Thu, 25 Feb 2010 12:30:40 +0000
From: highlandham <highlandham.nospam@rfburns.eu>
User-Agent: Thunderbird 2.0.0.23 (X11/20100108)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PSU problem help needed
References: <Id6hn.196047$0M5.137565@newsfe23.ams2> <6efb7f6a-71db-49a8-bef6-
e409a86eda8b@t31g2000prh.googlegroups.com> <a22b0154-c691-4e24-
bbfa-0ca3cd5fb2ef@j27g2000yqn.googlegroups.com>
In-Reply-To: <a22b0154-c691-4e24-bbfa-0ca3cd5fb2ef@j27g2000yqn.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Lu6dnd1cPoLv8BvWnZ2dnUVZ8smdnZ2d@pipex.net>
Lines: 47
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.110.157.35
X-Trace: sv3-
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8SBcFi6BUrjFarDOrM6TQwWo3g==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3141

terry wrote:
> ==
>
> With reference to that;
>
> "Is the PSU for 50Hz or could it be for the American market to
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> 60hz. version that it was mounted out of the metal chassis and
> attached to the wooden cabinet base .... ooh; me aching
> back!!!!! That Trans. must be at least twice the weight (maybe
> weighing it would be best policy?).
>
> Comments appreciated. TIA

===
The power rating of any transformer is determined by the laminated core
but also by the primary and secondary windings.

So, a transformer designed for 50hz will happily work on 60Hz but does
have an increased power rating because the primary and secondary
windings do not perform differently on 50 or 60Hz.

Your 'heavy beast for 25 Hz' will imho work equally well on 50 and 60Hz
,be it that the laminated core is over-sized for those frequencies , but
the primary and secondary windings ratings will be the same at 25 ,50
or 60Hz .

Frank   GM0CSZ / KN6WH

From 1164085594094570433

```
X-Google-Thread: 241b302a50,1940eb638f3decef
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border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 25 Feb 2010 07:59:55 -0600
Date: Thu, 25 Feb 2010 13:59:53 +0000
From: highlandham <highlandham.nospam@rfburns.eu>
User-Agent: Thunderbird 2.0.0.23 (X11/20100108)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PSU problem help needed
References: <Id6hn.196047$0M5.137565@newsfe23.ams2> <6efb7f6a-71db-49a8-bef6-
e409a86eda8b@t31g2000prh.googlegroups.com> <a22b0154-c691-4e24-
bbfa-0ca3cd5fb2ef@j27g2000yqn.googlegroups.com>
<Lu6dnd1cPoLv8BvWnZ2dnUVZ8smdnZ2d@pipex.net>
In-Reply-To: <Lu6dnd1cPoLv8BvWnZ2dnUVZ8smdnZ2d@pipex.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <GYSdnalBHK_GHxvWnZ2dnUVZ8sidnZ2d@pipex.net>
Lines: 54
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.110.157.35
X-Trace: sv3-
EAwbXyz97dW4U0tMoKB6yo8HASwnztfirUWoH139EXC4h2PYOKFroMzNmmhpGfThnWPLGoN6YFXbbIE!
SQQ2rrRM2r0cBrxa9+7wQpi+JGk6n0r0+khP9mXDAzwMfZo/FDm0F7akBh343v5cu//yfAiqSnQn!
40mz5kp5H5qXaWaromnOu8CvFw==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3142

highlandham wrote:
> terry wrote:
>> ==========================================================================
>>
>> With reference to that;
>>
>> "Is the PSU for 50Hz or could it be for the American market to
>> operate
>> at 60Hz   Transformers for 60Hz don't like to be fed with 50Hz AC
>> especially when they are marginally designed. For 60Hz the laminated
>> core can be made smaller than for the lower 50Hz frequency."
>>
>> Recall reading about a DXpedition to some tropical 50 cycle island
>> many, many years ago by a US ham team.
>> Their transceiver had a built in US style PS. They found they had to
>> down-rate the power output and at one point had the covers off and
>> damp rags applied to the transformer attempting to keep it cool. That
>> btw was before the days of 'switching' PS.
>>
>> Which leads to a question:
>> Q: If the supply frequency is higher than original design, say 60
>> instead of 50, i.e. 60/50 = freq. ratio 1.2
>> What would be the increased power handling capability at the higher
>> frequency?
>> Maybe that ratio squared? i.e. 1.44 times power handling????  Or????
>>
>> Another reason for asking is that I have an old either 20 or 25 cycle/
>> hertz TV  transformer from the 1950s. It was so much bigger than the
>> 60hz. version that it was mounted out of the metal chassis and
>> attached to the wooden cabinet base .................. ooh; me aching
>> back!!!!! That Trans. must be at least twice the weight (maybe
>> weighing it would be best policy?).
>>
>> Comments appreciated. TIA
  =============================================
  The power rating of any transformer is determined by the laminated core
  but also by the primary and secondary windings.

  So, a transformer designed for 50hz will happily work on 60Hz but does
  NOT have  an increased power rating because the primary and secondary
  --------
  windings do not perform differently on 50 or 60Hz.

  Your 'heavy beast for 25 Hz' will imho work equally well on 50 and 60Hz
  ,be it that the laminated core is over-sized for those frequencies , but
   the primary and secondary windings ratings will be the same at 25 ,50
  or 60Hz .

  Frank     GM0CSZ / KN6WH
===================
Sorry for the omission of NOT in the previous message , now
corrected,see above

Frank   GM0CSZ / KN6WH


From -8582742183831017428
X-Google-Thread: 241b302a50,8b65afc17eb08f2c,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
cyclone03.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf02.ams.highwinds-media.com!newsfe24.ams2.POSTED!7564ea0f!not-for-mail
From: "Barett" <barett@blueyonder.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Watson Power-Max-45-NF any good
Lines: 10
X-Priority: 3
```

```
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <ECLhn.41599$Np2.30247@newsfe24.ams2>
NNTP-Posting-Host: 94.169.121.99
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe24.ams2 1267172900 94.169.121.99 (Fri, 26 Feb 2010 08:28:20 UTC)
NNTP-Posting-Date: Fri, 26 Feb 2010 08:28:20 UTC
Organization: virginmedia.com
Date: Fri, 26 Feb 2010 08:28:19 -0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:3143
```

Has anyone tried one of these power supplies a Watson Power-Max-45-NF and are they any good?

How loud is the fan and is it a thermally controlled fan?

I have been looking for some reviews but I haven't found any.

Thanks

```
From 1458583179303475626
X-Google-Thread: 241b302a50,eeb9b781bfcda350,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news2.glorb.com!
feeder.erje.net!de-l.enfer-du-nord.net!feeder2.enfer-du-nord.net!
newsfeed.eweka.nl!eweka.nl!feeder3.eweka.nl!69.16.177.254.MISMATCH!
cyclone01.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf02.ams.highwinds-media.com!newsfe25.ams2.POSTED!7564ea0f!not-for-mail
From: "Barett" <barett@blueyonder.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: KPS-450A NISSEI MS-450A Power Supply any good
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <ILMhn.174764$DL1.104266@newsfe25.ams2>
NNTP-Posting-Host: 94.169.121.99
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe25.ams2 1267177576 94.169.121.99 (Fri, 26 Feb 2010 09:46:16 UTC)
NNTP-Posting-Date: Fri, 26 Feb 2010 09:46:16 UTC
Organization: virginmedia.com
Date: Fri, 26 Feb 2010 09:46:16 -0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:3144
```

Has anyone tried one of these power supplies a and
are they any good?

How loud is the fan and is it a thermally controlled fan?

I have been looking for some reviews but I haven't found any.

Thanks

```
From -2316372761209686554
X-Google-Thread: fc2a5,a8c60c83a092dab2
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,a8c60c83a092dab2
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 06 Apr 2010 06:53:01 -0500
Date: Tue, 06 Apr 2010 06:47:09 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: non radio (was Herm...)
References: <2da96dd4-13eb-454e-832f-c729f2371797@z7g2000yqb.googlegroups.com>
In-Reply-To: <2da96dd4-13eb-454e-832f-c729f2371797@z7g2000yqb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <KoydnYSLna0AvSbWnZ2dnUVZ_uuunZ2d@giganews.com>
Lines: 2
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
yzZ0OBgmUYrwlCCOXaRplR2PKavXFUU10JqMmvoiXemrNmpkLKOCTAZs419To3XEcgMEIOP0x9E0g7w!
I3g4rsNNVTisHX3MA9IyQzoS6dv5PfkPKEmhzNTk3h3FwbMkOfzGQWcLdxfgg21mYEQnyOpnEyE=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3598
rec.puzzles.crosswords:7509
```

www.brandtrade10.com wrote:

> Herm

```
From 1014677205063668977
X-Google-Thread: fc2a5,836f6b6b560de1db
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g11g2000yqe.googlegroups.com!not-for-
mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 900MHz antenna help?
Date: Tue, 6 Apr 2010 11:20:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <544d32ff-c4a5-4a09-ac4c-5035e55b7333@g11g2000yqe.googlegroups.com>
References: <9d53450b-51cc-47f1-9ff1-bc2881fb397e@g28g2000yqh.googlegroups.com>
     <Lb-dnWkNiqN7gyvWnZ2dnUVZ_rSdnZ2d@giganews.com>
NNTP-Posting-Host: 219.89.90.17
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1270578049 21365 127.0.0.1 (6 Apr 2010 18:20:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 6 Apr 2010 18:20:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g11g2000yqe.googlegroups.com; posting-host=219.89.90.17;
     posting-account=TfKoOgkAAABQzW2yM8tZrYe8S04m-wqP
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
     AppleWebKit/532.5 (KHTML, like Gecko) Chrome/4.1.249.1045
     Safari/532.5,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3302
```

Look at GSM co-linears

> ttt9090 wrote:
> > Hi all,
> > This probably isn't the right place to post this, but I figure it may
> > be the best place to find the experienced minds that may be able to
> > help me with this litlle problem I have.
>
> > I need to source some antennas (to supply to someone I work with), and
> > they must have the following specs:
>
> > 870-900MHz
> > 5 dB
> > RG58/U cable (at least 5 feet long)
> > RA-TNC (Male)
> > Magnetic mount
>
> > As for the cable and connectors, I can buy them separately I guess and
> > assemble as required.
> > I have been getting PCTEL Maxrad ones that do the trick, but I'm
> > having major supply issues (like 2 months wait time).
>

```
> > If anyone has an idea where I can find these things, or what else may
> > work, I'd be very grateful for some pointers.
> > Thanks in advance



From 3169535809369482339
X-Google-Thread: fc2a5,800b6ad03aebd65,start
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,800b6ad03aebd65,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!x12g2000yqx.googlegroups.com!not-for-
mail
From: shoestrade <haoxinfenshou98@yahoo.com.cn>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: BBC man GIUBBOTTO Jackets G-star blazer paypal wholesale free
     shipping on http://www.brandtrade10.com
Date: Tue, 6 Apr 2010 20:36:48 -0700 (PDT)
Organization: http://groups.google.com
Lines: 50
Message-ID: <f8b5003b-f96b-4290-a665-120332a682e7@x12g2000yqx.googlegroups.com>
NNTP-Posting-Host: 58.22.72.90
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1270611409 15582 127.0.0.1 (7 Apr 2010 03:36:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 7 Apr 2010 03:36:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x12g2000yqx.googlegroups.com; posting-host=58.22.72.90;
     posting-account=NaqkvQoAAABxjp2Ua18U0tMRFxALbNih
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6.4; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3303
rec.puzzles.crosswords:6971

A&F man GIUBBOTTO Jackets G-star blazer paypal wholesale free shipping
on http://www.brandtrade10.com/
  A&F women GIUBBOTTO Jackets G-star blazer paypal wholesale free
shipping on http://www.brandtrade10.com/
  Ed Hardy man GIUBBOTTO Jackets G-star blazer paypal wholesale free
shipping on http://www.brandtrade10.com/
  BBC man GIUBBOTTO Jackets G-star blazer paypal wholesale free
shipping on http://www.brandtrade10.com/
  BAPE man GIUBBOTTO Jackets G-star blazer paypal wholesale free
shipping on http://www.brandtrade10.com/
  Adidas GIUBBOTTO Jackets G-star blazer paypal wholesale free
shipping on http://www.brandtrade10.com/
```

A&F man GIUBBOTTO Jackets G-star blazer paypal wholesale free shipping
on http://www.brandtrade10.com/
A&F women GIUBBOTTO Jackets G-star blazer paypal wholesale free
shipping on http://www.brandtrade10.com/
Ed Hardy man GIUBBOTTO Jackets G-star blazer paypal wholesale free
shipping on http://www.brandtrade10.com/
BBC man GIUBBOTTO Jackets G-star blazer paypal wholesale free
shipping on http://www.brandtrade10.com/
BAPE man GIUBBOTTO Jackets G-star blazer paypal wholesale free
shipping on http://www.brandtrade10.com/
Adidas GIUBBOTTO Jackets G-star blazer paypal wholesale free
shipping on http://www.brandtrade10.com/

A&F man GIUBBOTTO Jackets G-star blazer paypal wholesale free shipping
on http://www.brandtrade10.com/
A&F women GIUBBOTTO Jackets G-star blazer paypal wholesale free
shipping on http://www.brandtrade10.com/
Ed Hardy man GIUBBOTTO Jackets G-star blazer paypal wholesale free
shipping on http://www.brandtrade10.com/
BBC man GIUBBOTTO Jackets G-star blazer paypal wholesale free
shipping on http://www.brandtrade10.com/
BAPE man GIUBBOTTO Jackets G-star blazer paypal wholesale free
shipping on http://www.brandtrade10.com/
Adidas GIUBBOTTO Jackets G-star blazer paypal wholesale free
shipping on http://www.brandtrade10.com/

```
From -4325222312042260346
X-Google-Thread: fc2a5,5d7778e2ac0b1b00,start
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,5d7778e2ac0b1b00,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w17g2000yqj.googlegroups.com!not-for-
mail
From: shoestrade <haoxinfenshou98@yahoo.com.cn>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: COOGI man GIUBBOTTO Jackets G-star blazer paypal wholesale free
	shipping on http://www.brandtrade10.com
Date: Tue, 6 Apr 2010 20:37:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
```

```
Message-ID: <9397f01a-6db0-4e4b-a707-5db690a26e11@w17g2000yqj.googlegroups.com>
NNTP-Posting-Host: 58.22.72.90
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1270611455 16179 127.0.0.1 (7 Apr 2010 03:37:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 7 Apr 2010 03:37:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w17g2000yqj.googlegroups.com; posting-host=58.22.72.90;
     posting-account=NaqkvQoAAABxjp2Ua18U0tMRFxALbNih
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6.4; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3304
rec.puzzles.crosswords:6972
```

COOGI man GIUBBOTTO Jackets G-star blazer paypal wholesale free shipping on http://www.brandtrade10.com/
Christan Audigier man GIUBBOTTO Jackets G-star blazer paypal wholesale free shipping on http://www.brandtrade10.com/
Kappa man GIUBBOTTO Jackets G-star blazer paypal wholesale free shipping on http://www.brandtrade10.com/
Burberry GIUBBOTTO Jackets G-star blazer paypal wholesale free shipping on http://www.brandtrade10.com/
Puma man GIUBBOTTO Jackets G-star blazer paypal wholesale free shipping on http://www.brandtrade10.com/
Burberry women GIUBBOTTO Jackets G-star blazer paypal wholesale free shipping on http://www.brandtrade10.com/

COOGI man GIUBBOTTO Jackets G-star blazer paypal wholesale free shipping on http://www.brandtrade10.com/
Christan Audigier man GIUBBOTTO Jackets G-star blazer paypal wholesale free shipping on http://www.brandtrade10.com/
Kappa man GIUBBOTTO Jackets G-star blazer paypal wholesale free shipping on http://www.brandtrade10.com/
Burberry GIUBBOTTO Jackets G-star blazer paypal wholesale free shipping on http://www.brandtrade10.com/
Puma man GIUBBOTTO Jackets G-star blazer paypal wholesale free shipping on http://www.brandtrade10.com/
Burberry women GIUBBOTTO Jackets G-star blazer paypal wholesale free shipping on http://www.brandtrade10.com/

```
From 8045651854844631898
X-Google-Thread: fcc6e,c8cb42f31ffcaa,start
X-Google-NewGroupId: yes
X-Google-Thread: 11480d,c8cb42f31ffcaa,start
```

```
X-Google-NewGroupId: yes
X-Google-Thread: 108122,c8cb42f31ffcaa,start
X-Google-NewGroupId: yes
X-Google-Thread: fc2a5,c8cb42f31ffcaa,start
X-Google-NewGroupId: yes
X-Google-Thread: 107ada,c8cb42f31ffcaa,start
X-Google-NewGroupId: yes
X-Google-Thread: 10bf43,c8cb42f31ffcaa,start
X-Google-NewGroupId: yes
X-Google-Thread: 10b9c8,c8cb42f31ffcaa,start
X-Google-NewGroupId: yes
X-Google-Attributes:
gid4baf9708d4,gid7221ecd0f7,gidd7f5508063,gid241b302a50,gida3e752f117,gide721ae2bf
6,gida4a23d5f63,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news-out.readnews.com!
transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1267945500@panix.com>
Followup-To: poster
Date: 7 Apr 2010 02:05:00 -0400
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 10 May 2010 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1270620300@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1270620302 1233 166.84.1.2 (7 Apr 2010 06:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 7 Apr 2010 06:05:02 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news2.google.com rec.radio.amateur.antenna:17231 rec.radio.amateur.dx:637
rec.radio.amateur.equipment:2121 rec.radio.amateur.homebrew:3602
rec.radio.amateur.misc:5030 rec.radio.amateur.policy:28834 rec.radio.info:1433

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/
```

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire

```
rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our
newsgroup.

We are seeking a replacement maintainer for the following information
bulletin formerly posted to rec.radio.amateur.* (and currently archived
at http://www.faqs.org/faqs/radio/personal-intro/ ):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article       |
is that it does not mention newer amateur radio newsgroups created since      |
it was written, including:                                                    |

 rec.radio.amateur.antenna                                                    |
 rec.radio.amateur.boatanchors                                                |
 rec.radio.amateur.dx                                                         |
 rec.radio.amateur.equipment                                                  |
 rec.radio.amateur.homebrew                                                   |
 rec.radio.amateur.moderated                                                  |
 rec.radio.amateur.space                                                      |

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions.  We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.





From -1529082440553287320
X-Google-Thread: fc2a5,800b6ad03aebd65
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 07 Apr 2010 06:27:24 -0500
Date: Wed, 07 Apr 2010 06:21:33 -0500
From: brian whatcott <betwys1@sbcglobal.net>
```

```
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: non radio ( was  BBC m...)
References: <f8b5003b-f96b-4290-a665-120332a682e7@x12g2000yqx.googlegroups.com>
In-Reply-To: <f8b5003b-f96b-4290-a665-120332a682e7@x12g2000yqx.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <n66dnZlzhd6A8SHWnZ2dnUVZ_sgAAAAA@giganews.com>
Lines: 2
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-NxHVN3Y3Th38qMZdgR2RrlyN2yns7YlSdzaQBHcFpmHRKZDnZ13NU7g4Rw/
3QsDINIjutSxnvlAlIvI!Si42AxSTRxkOwkkB35FywetMSEoRxPgqoe+TsZbvA7niEfMyhbyQO+YTgx/
fN4eOwpfzswGmCOQ=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3306

shoestrade wrote:
> A&F man GIUB



From 7660486519232887432
X-Google-Thread: fc2a5,5b4d60a6e2b7049b,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe05.iad.POSTED!7564ea0f!not-for-mail
From: "Norm VE3CZI" <rodemi@cogeco.ca>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.swap
Subject: FA:  MFJ-941E, Z-Matcher for UHF, SWER Sweep, 800 Mhz ADR Pre-Amp
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3598
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Message-ID: <ixGvn.171963$2r7.139240@newsfe05.iad>
NNTP-Posting-Host: 24.141.182.13
X-Complaints-To: abuse@cogeco.net
X-Trace: newsfe05.iad 1270822094 24.141.182.13 (Fri, 09 Apr 2010 14:08:14 UTC)
NNTP-Posting-Date: Fri, 09 Apr 2010 14:08:14 UTC
Date: Fri, 9 Apr 2010 10:07:43 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:3307 rec.radio.swap:2454
```

http://shop.ebay.ca/radioguy101/m.html?_nkw=&_armrs=1&_from=&_ipg=

****
Have Surplus Service Manuals & Electronic
Parts/Equipment FOR SALE.
Visit: www.rodemi.com
****

From 2348715032248904221
X-Google-Thread: fc2a5,ed7c3633b9d98596,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j21g2000yqh.googlegroups.com!not-for-mail
From: daniel fitzpatrick <dpfitzjr@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Shades of Einstein and Fred Hoyle
Date: Mon, 12 Apr 2010 06:37:41 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <d47ee071-aba7-4012-8972-1bbbe3ada135@j21g2000yqh.googlegroups.com>
NNTP-Posting-Host: 64.53.76.179
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1271079461 16425 127.0.0.1 (12 Apr 2010 13:37:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 12 Apr 2010 13:37:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j21g2000yqh.googlegroups.com; posting-host=64.53.76.179;
     posting-account=F4AF1woAAAAd3xg9TXC_4l-sLs0o7_ET
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0;
     Trident/4.0; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
     3.0.30618; yie8),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3605

Shades of Einstein and Fred Hoyle

A changing concept of our universe!

(click link)

http://www.amperefitz.com/einstein.hoyle.htm

Enjoy,

Fitz

comrlsta

```
From 1444221961199321752
X-Google-Thread: 241b302a50,1b4e98586bd7953a,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!w42g2000yqm.googlegroups.com!not-for-
mail
From: walt <walt@w2du.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 3rd edition of W2DU's Reflections is now available from CQ
     Communications, Inc.
Date: Fri, 16 Apr 2010 18:57:52 -0700 (PDT)
Organization: http://groups.google.com
Lines: 6
Message-ID: <93416bd7-cb98-4c82-99fa-4897c9c33b6d@w42g2000yqm.googlegroups.com>
NNTP-Posting-Host: 24.170.134.98
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1271469473 20125 127.0.0.1 (17 Apr 2010 01:57:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 17 Apr 2010 01:57:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w42g2000yqm.googlegroups.com; posting-host=24.170.134.98;
     posting-account=J1mP_goAAAAHAZfpshfnaeZn8LGM3ZCa
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152;
     .NET CLR 3.5.30729; Hotbar 11.0.78.0),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3606

To order a copy of W2DU's Reflections III, go to the W2DU web page at
www.w2du.com and click on: Click here to order Reflections III.

Significant discount when ordering before 5/10/10.

Walt Maxwell, W2DU



From 6059590943061228387
X-Google-Thread: fc2a5,b73fefd13d6865b3,start
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,b73fefd13d6865b3,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v14g2000yqb.googlegroups.com!not-for-
mail
From: "www.jersey-2009.com" <ganshoushoe@163.com>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
```

```
Subject: wholesale high quality and low price Nike Shox in
     http://www.brandtrade10.com
Date: Sat, 17 Apr 2010 00:13:12 -0700 (PDT)
Organization: http://groups.google.com
Lines: 1
Message-ID: <7273ac67-35ab-4409-988a-405a71a2103f@v14g2000yqb.googlegroups.com>
NNTP-Posting-Host: 58.22.149.36
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1271488392 26916 127.0.0.1 (17 Apr 2010 07:13:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 17 Apr 2010 07:13:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v14g2000yqb.googlegroups.com; posting-host=58.22.149.36;
     posting-account=nhLbiwoAAAAY366l-vgyMa45MYunp5Vr
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     QQPinyin 730; GTB6.4; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3607
rec.puzzles.crosswords:7601

wholesale high quality and low price Nike Shox in http://www.brandtrade10.com


From -9108931455122868833
X-Google-Thread: fc2a5,6581caeaee68478e,start
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,6581caeaee68478e,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!12g2000yqi.googlegroups.com!not-for-
mail
From: "www.jersey-2009.com" <ganshoushoe@163.com>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: paypal wholesale Men's Sport Shoes  (paypal payment)
Date: Sat, 17 Apr 2010 00:15:17 -0700 (PDT)
Organization: http://groups.google.com
Lines: 2
Message-ID: <96e2443c-faf5-4b41-b43e-7cfa7c0bd29a@12g2000yqi.googlegroups.com>
NNTP-Posting-Host: 58.22.149.36
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1271488518 12054 127.0.0.1 (17 Apr 2010 07:15:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 17 Apr 2010 07:15:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 12g2000yqi.googlegroups.com; posting-host=58.22.149.36;
     posting-account=nhLbiwoAAAAY366l-vgyMa45MYunp5Vr
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     QQPinyin 730; GTB6.4; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3311
```

```
rec.puzzles.crosswords:7056

paypal wholesale Men's Sport Shoes  (paypal payment)
( (http://www.brandtrade10.com )  )



From -4519167842686827813
X-Google-Thread: fc2a5,6581caeaee68478e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 17 Apr 2010 18:05:06 -0500
Date: Sat, 17 Apr 2010 18:00:45 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: not radio (was pa.esale M..rt Sho.ypa)
References: <96e2443c-faf5-4b41-b43e-7cfa7c0bd29a@12g2000yqi.googlegroups.com>
In-Reply-To: <96e2443c-faf5-4b41-b43e-7cfa7c0bd29a@12g2000yqi.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <ub6dnVitbPw7o1fWnZ2dnUVZ_uWdnZ2d@giganews.com>
Lines: 2
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
o8D9xed4zGjVsd6nDtZM53AWp0Czo7yWMXzLdmfqX9M49NXA9bCYmw8y5rqw4iE638YG0Vbb5Gn1AmX!
rVnnB0KP7HF52L5M97NauINNagVTj4+yDvB3xiiDLL90xbhqDt7IfEJbEgqOD/fujyqxH5hPgtQ=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3312
rec.puzzles.crosswords:7062

www.jersey-2009.com wrote:
> pay



From 1833309539278287475
X-Google-Thread: fc2a5,6581caeaee68478e
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,6581caeaee68478e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!goblin2!goblin.stu.neva.ru!xlned.com!
```

```
feeder7.xlned.com!news2.euro.net!newsgate.cistron.nl!newsgate.news.xs4all.nl!
post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
From: Rob <nomail@example.com>
Subject: Re: not radio (was pa.esale M..rt Sho.ypa)
References: <96e2443c-faf5-4b41-b43e-7cfa7c0bd29a@12g2000yqi.googlegroups.com>
 <ub6dnVitbPw7o1fWnZ2dnUVZ_uWdnZ2d@giganews.com>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrnhsmc3a.pgh.nomail@xs8.xs4all.nl>
Date: 18 Apr 2010 16:16:42 GMT
Lines: 7
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1271607402 news.xs4all.nl 22918 [::ffff:194.109.21.8]:36773
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:3313
rec.puzzles.crosswords:7066

brian whatcott <betwys1@sbcglobal.net> wrote:
> www.jersey-2009.com wrote:
>> pay

Please don't post followups on articles "because they are offtopic".
People use methods to filter those articles.  They see only your
pointless followup.


From -7491856594612694099
X-Google-Thread: fc2a5,6581caeaee68478e
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 18 Apr 2010 13:30:15 -0500
Date: Sun, 18 Apr 2010 13:29:34 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: not radio (was pa.esale M..rt Sho.ypa)
References: <96e2443c-faf5-4b41-b43e-7cfa7c0bd29a@12g2000yqi.googlegroups.com>
<ub6dnVitbPw7o1fWnZ2dnUVZ_uWdnZ2d@giganews.com>
<slrnhsmc3a.pgh.nomail@xs8.xs4all.nl>
In-Reply-To: <slrnhsmc3a.pgh.nomail@xs8.xs4all.nl>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <PY-dnZTLBZAq0lbWnZ2dnUVZ_gudnZ2d@giganews.com>
Lines: 17
```

```
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-cHwGtU4rJwwkQrGVK/g+HpDG0utiNJ/QlhORCj/
VoPiAJxLgQrGNvSp9TmjlH29nPrst1zmkQLs/CMJ!
3Bam+A+UDfVyllH7SU4ijRJrT4uHW8127gFUabNKZkzBX+HIpi0gbEhTsu+rJ0LZadYcQxW1sN0=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3611

Rob wrote:
> brian whatcott <betwys1@sbcglobal.net> wrote:
>> www.jersey-2009.com wrote:
>>> pay
>
> Please don't post followups on articles "because they are offtopic".
> People use methods to filter those articles.  They see only your
> pointless followup.

This method has proved helpful on several low-volume newsgroups.
It's important to clip the random assortment of newsgroups to the ones
YOU care about.   In error, I allowed rec.puzzles remain, and so did
you.  Pity!   As to filtering, that's helpful. People who filter can
easily filter on "non and "not" in the subject. Perhaps you could
consider that?

Brian W



From -5461377591500104710
X-Google-Thread: 241b302a50,6581caeaee68478e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!news2.euro.net!
newsgate.cistron.nl!newsgate.news.xs4all.nl!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: not radio (was pa.esale M..rt Sho.ypa)
References: <96e2443c-faf5-4b41-b43e-7cfa7c0bd29a@12g2000yqi.googlegroups.com>
 <ub6dnVitbPw7o1fWnZ2dnUVZ_uWdnZ2d@giganews.com>
 <slrnhsmc3a.pgh.nomail@xs8.xs4all.nl>
 <PY-dnZTLBZAq0lbWnZ2dnUVZ_gudnZ2d@giganews.com>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrnhsmkrl.84k.nomail@xs8.xs4all.nl>
Date: 18 Apr 2010 18:46:14 GMT
Lines: 18
NNTP-Posting-Host: 194.109.21.8
```

```
X-Trace: 1271616374 news.xs4all.nl 22918 [::ffff:194.109.21.8]:33965
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:3315

brian whatcott <betwys1@sbcglobal.net> wrote:
> Rob wrote:
>> brian whatcott <betwys1@sbcglobal.net> wrote:
>>> www.jersey-2009.com wrote:
>>>> pay
>>
>> Please don't post followups on articles "because they are offtopic".
>> People use methods to filter those articles.  They see only your
>> pointless followup.
>
> This method has proved helpful on several low-volume newsgroups.
> It's important to clip the random assortment of newsgroups to the ones
> YOU care about.   In error, I allowed rec.puzzles remain, and so did
> you.  Pity!   As to filtering, that's helpful. People who filter can
> easily filter on "non and "not" in the subject. Perhaps you could
> consider that?

I'll add you to my killfile, that should suffice.


From -3954840904841271129
X-Google-Thread: fc2a5,fcd5a1d0918587f1,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r1g2000yqb.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Transformer replacement
Date: Sun, 18 Apr 2010 19:22:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 7
Message-ID: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1271643774 29497 127.0.0.1 (19 Apr 2010 02:22:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Apr 2010 02:22:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r1g2000yqb.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3613

I have an HF amp that uses a single 811A in grounded grid. The power
```

transformer smoked. The transformer was from an old TV set I think it
was rated at 540VAC on the sec and I ran it into a voltage doubler for
about 1300 VDC . Any info on something I could use as a replacement
would be appreciated.

Jimmie

From 6641759982574904723
X-Google-Thread: fc2a5,fcd5a1d0918587f1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 Apr 2010 06:57:22 -0500
Date: Mon, 19 Apr 2010 12:57:22 +0100
From: highlandham <highlandham.nospam@rfburns.eu>
User-Agent: Thunderbird 2.0.0.23 (X11/20100301)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer replacement
References: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
In-Reply-To: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
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Content-Transfer-Encoding: 7bit
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Lines: 12
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.110.145.60
X-Trace: sv3-
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eiBYcdtIiXsZ7u7Dqqp6FJxZrg==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3317

JIMMIE wrote:
> I have an HF amp that uses a single 811A in grounded grid. The power
> transformer smoked. The transformer was from an old TV set I think it
> was rated at 540VAC on the sec and I ran it into a voltage doubler for
> about 1300 VDC . Any info on something I could use as a replacement
> would be appreciated.
>
> Jimmie

==============================
If you are in the UK I would be able to help you.

```
Frank GM0CSZ/KN6WH     in northern Scotland


From 7451436399140800415
X-Google-Thread: fc2a5,8e9ca14c83137c60,start
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,8e9ca14c83137c60,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z3g2000yqz.googlegroups.com!not-for-
mail
From: zaqwsx147852 <hjin17@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: Nike Air Max
Date: Mon, 19 Apr 2010 06:20:03 -0700 (PDT)
Organization: http://groups.google.com
Lines: 142
Message-ID: <fccb1f41-e677-47de-a065-fc03009e9995@z3g2000yqz.googlegroups.com>
NNTP-Posting-Host: 115.150.237.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1271683204 8703 127.0.0.1 (19 Apr 2010 13:20:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Apr 2010 13:20:04 +0000 (UTC)
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Injection-Info: z3g2000yqz.googlegroups.com; posting-host=115.150.237.81;
     posting-account=mSZRUgoAAADGiZ1WnrJCWSpDr-THM41l
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     QQPinyin 730; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3318
rec.puzzles.crosswords:7067

Nike Air Max
Cheap Wholesale Nike Air Max 87 <http://www.supertradeonline06.com/ >
paypal payment
Cheap Wholesale Nike Air Max 89 <http://www.supertradeonline06.com/ >
paypal payment
http://www.supertradeonline06.com/

Cheap Wholesale Nike Air Max 90 <http://www.supertradeonline06.com/ >
paypal payment
Cheap Wholesale Nike Air Max 91 <http://www.supertradeonline06.com/ >
paypal payment
Cheap Wholesale Nike Air Max 92 Man <http://
www.supertradeonline06.com/ > paypal
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paypal payment
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Cheap Wholesale Nike Air Max 97 <http://www.supertradeonline06.com/ > paypal payment
Cheap Wholesale Nike Air Max 180 Man <http://www.supertradeonline06.com/ > paypal payment
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Cheap Wholesale Nike Air Max LTD <http://www.supertradeonline06.com/ > paypal payment
Cheap Wholesale Nike Air Max Skyline <http://www.supertradeonline06.com/ > paypal payment
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Cheap Wholesale Nike Air Max Tailwind <http://www.supertradeonline06.com/ > paypal payment
Cheap Wholesale Nike Air Max TN <http://www.supertradeonline06.com/ > paypal payment

Cheap Wholesale Shox NZ <http://www.supertradeonline06.com/ > paypal payment
Cheap Wholesale Shox OZ <http://www.supertradeonline06.com/ > paypal payment
Cheap Wholesale Shox R2 <http://www.supertradeonline06.com/ > paypal payment
Cheap Wholesale Shox R3 <http://www.supertradeonline06.com/ > paypal payment
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Cheap Wholesale Shox R4 <http://www.supertradeonline06.com/ > paypal payment
Cheap Wholesale Shox R5 <http://www.supertradeonline06.com/ > paypal payment
Cheap Wholesale Shox Reverie lover
Cheap Wholesale Shox RZ <http://www.supertradeonline06.com/ > paypal payment
Cheap Wholesale Shox TL <http://www.supertradeonline06.com/ > paypal payment
Cheap Wholesale Shox Torch <http://www.supertradeonline06.com/ > paypal payment
Cheap Wholesale Shox TZ <http://www.supertradeonline06.com/ > paypal payment

Air Force one <http://www.supertradeonline06.com/ > paypal payment
Cheap Wholesale Air Force One Man <http://www.supertradeonline06.com/ > paypal

payment
Cheap Wholesale Air Force One Women <http://
www.supertradeonline06.com/ > paypal
payment
Cheap Wholesale Air Force One M&W <http://www.supertradeonline06.com/
> paypal
payment
Cheap Wholesale Air Force one 25 Man <http://
www.supertradeonline06.com/ > paypal
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Cheap Wholesale Air Force One 25 Women <http://
www.supertradeonline06.com/ > paypal
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Cheap Wholesale Nike shoes <http://www.supertradeonline06.com/ >
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paypal payment
Cheap Wholesale Nike RLFT <http://www.supertradeonline06.com/ > paypal
payment

wholesale high quality and low price Adidas Shoes in http://
www.supertradeonline06.com/
wholesale high quality and low price Air Force one in http://
www.supertradeonline06.com/
wholesale high quality and low price Air Jordan in http://
www.supertradeonline06.com/
wholesale high quality and low price Amauri Shoes in http://
www.supertradeonline06.com/
wholesale high quality and low price Bape Shoes in http://
www.supertradeonline06.com/
wholesale high quality and low price Bikkembergs Shoes in
http://www.supertradeonline06.com/
wholesale high quality and low price BOSS Shoes in http://
www.supertradeonline06.com/
wholesale high quality and low price Burberry Shoes in
http://www.supertradeonline06.com/
wholesale high quality and low price Chanel Shoes in http://

www.supertradeonline06.com/
wholesale high quality and low price Coach Shoes in http://www.supertradeonline06.com/
wholesale high quality and low price D&G Shoes in http://www.supertradeonline06.com/
wholesale high quality and low price Diesel Shoes in http://www.supertradeonline06.com/
wholesale high quality and low price Dior Shoes in http://www.supertradeonline06.com/
wholesale high quality and low price DSQUARED Shoes in http://www.supertradeonline06.com/
wholesale high quality and low price ED Hardy Shoes in http://www.supertradeonline06.com/
wholesale high quality and low price Evisu Shoes in http://www.supertradeonline06.com/
wholesale high quality and low price Fendi Shoes in http://www.supertradeonline06.com/
wholesale high quality and low price FootBall in http://www.supertradeonline06.com/
wholesale high quality and low price Gucci Shoes in http://www.supertradeonline06.com/
wholesale high quality and low price LV Shoes in http://www.supertradeonline06.com/
wholesale high quality and low price Nike AirMax in http://www.supertradeonline06.com/
wholesale high quality and low price Nike Shox in http://www.supertradeonline06.com/
wholesale high quality and low price Prada Shoes in http://www.supertradeonline06.com/
wholesale high quality and low price Puma Shoes in http://www.supertradeonline06.com/
wholesale high quality and low price RICH Shoes in http://www.supertradeonline06.com/
wholesale high quality and low price SEBAGO Shoes in http://www.supertradeonline06.com/
wholesale high quality and low price Timberland in http://www.supertradeonline06.com/

wholesale high quality and low price Versace Shoes in http://www.supertradeonline06.com/
wholesale high quality and low price Y3 Shoes in http://www.supertradeonline06.com/

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From -2816712108920000607
X-Google-Thread: fc2a5,fcd5a1d0918587f1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!newsp.newsguy.com!news5
```

From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer replacement
Date: Mon, 19 Apr 2010 10:28:50 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 16
Message-ID: <hqhpb402nba@news5.newsguy.com>
References: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
NNTP-Posting-Host: p39754eeb61b2ad6377079ca102d0e78413e12e90295e1c2c.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
In-Reply-To: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
X-Antivirus: avast! (VPS 100419-0, 04/19/2010), Outbound message
X-Antivirus-Status: Clean
Xref: g2news2.google.com rec.radio.amateur.homebrew:3616

JIMMIE wrote:
> I have an HF amp that uses a single 811A in grounded grid. The power
> transformer smoked. The transformer was from an old TV set I think it
> was rated at 540VAC on the sec and I ran it into a voltage doubler for
> about 1300 VDC . Any info on something I could use as a replacement
> would be appreciated.
>
> Jimmie

There's an ample supply of used xfmrs at PTOP oldradioparts.com

I recently got one for my homebrew xmtr. You might have to buy some
other stuff to reach the $20 minimum order. I have never failed to find
other things that I 'need'.

-Bill

From 4330102496231624089
X-Google-Thread: fc2a5,fcd5a1d0918587f1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!x3g2000yqd.googlegroups.com!not-for-mail
From: AndyS <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer replacement
Date: Mon, 19 Apr 2010 07:30:01 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <4bf6d6fc-22a6-497c-8073-f5f3026aad29@x3g2000yqd.googlegroups.com>
References: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
NNTP-Posting-Host: 66.19.119.148
Mime-Version: 1.0

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Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1271687401 17024 127.0.0.1 (19 Apr 2010 14:30:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Apr 2010 14:30:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x3g2000yqd.googlegroups.com; posting-host=66.19.119.148;
     posting-account=KFkOfwkAAACH2d-FARwTC0L3LBlWIhhp
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.20)
     Gecko/20081217 Firefox/2.0.0.20,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3320

On Apr 18, 9:22 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> I have an HF amp that uses a single 811A in grounded grid. The power
> transformer smoked. The transformer was from an old TV set I think it
> was rated at 540VAC on the sec and I ran it into a voltage doubler for
> about 1300 VDC  . Any info on something I could use as a replacement
> would be appreciated.
>
> Jimmie

Andy comments:

  You might investigate using a high voltage transformer from an old
microwave oven......  If the secondary voltage turns out to be too
great,
their construction makes it fairly easy to remove some turns...

   I haven't tried this, .... just something to consider..

                    Andy W4OAH


From -9181145736116687576
X-Google-Thread: fc2a5,fcd5a1d0918587f1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 Apr 2010 12:04:51 -0500
Date: Mon, 19 Apr 2010 12:03:57 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer replacement
References: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
<k8KdnWjdvLm-2FHWnZ2dnUVZ8udi4p2d@pipex.net>
In-Reply-To: <k8KdnWjdvLm-2FHWnZ2dnUVZ8udi4p2d@pipex.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
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Content-Transfer-Encoding: 7bit
Message-ID: <t8idnVaJF_KuEFHWnZ2dnUVZ_rednZ2d@giganews.com>
Lines: 23
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-7r3fb/G9Fa6+ldZE7GXBPSCtbC9yN/
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ztlSrPBBtx7wLULjErHCyW6Y7fQ6ycEwPZVSbHyKHEMd9MMjwjNUUUtSCnnOk/fFJU=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3618

highlandham wrote:
> JIMMIE wrote:
>> I have an HF amp that uses a single 811A in grounded grid. The power
>> transformer smoked. The transformer was from an old TV set I think it
>> was rated at 540VAC on the sec and I ran it into a voltage doubler for
>> about 1300 VDC . Any info on something I could use as a replacement
>> would be appreciated.
>>
>> Jimmie
> ==============================
> If you are in the UK I would be able to help you.
>
> Frank GM0CSZ/KN6WH   in northern Scotland

Ha! Jimmie is not being helpful if he does not indicate the primary
volts he expects to provide.

One clunky solution is to connect in series the outputs of two 240 volt
secondary transformers, while setting the input tap as low as it will
go.   Inputs volts, and desired output current and volts would be good
to know...

Brian W

From -2121669695228369330
X-Google-Thread: fc2a5,fcd5a1d0918587f1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 Apr 2010 12:06:58 -0500
Date: Mon, 19 Apr 2010 12:06:05 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)

```
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer replacement
References: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
<4bf6d6fc-22a6-497c-8073-f5f3026aad29@x3g2000yqd.googlegroups.com>
In-Reply-To: <4bf6d6fc-22a6-497c-8073-f5f3026aad29@x3g2000yqd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
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Message-ID: <t8idnVGJF_IuEFHWnZ2dnUVZ_rcAAAAA@giganews.com>
Lines: 27
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X-Trace: sv3-
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X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3322

AndyS wrote:
> On Apr 18, 9:22 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>> I have an HF amp that uses a single 811A in grounded grid. The power
>> transformer smoked. The transformer was from an old TV set I think it
>> was rated at 540VAC on the sec and I ran it into a voltage doubler for
>> about 1300 VDC  . Any info on something I could use as a replacement
>> would be appreciated.
>>
>> Jimmie
>
> Andy comments:
>
>   You might investigate using a high voltage transformer from an old
> microwave oven......  If the secondary voltage turns out to be too
> great,
> their construction makes it fairly easy to remove some turns...
>
>    I haven't tried this, .... just something to consider..
>
>                      Andy W4OAH


Hmmm....come to think of it - they tend to go to 1000V AC secondaries -
but there is plenty of stray magnetic circuit usually provided which
might need knocking out of the core...

Brian W


From 5423776104162112236
X-Google-Thread: 241b302a50,fcd5a1d0918587f1
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X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 Apr 2010 14:04:54 -0500
Date: Mon, 19 Apr 2010 20:04:53 +0100
From: highlandham <highlandham.nospam@rfburns.eu>
User-Agent: Thunderbird 2.0.0.23 (X11/20100301)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer replacement
References: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
<4bf6d6fc-22a6-497c-8073-f5f3026aad29@x3g2000yqd.googlegroups.com>
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In-Reply-To: <t8idnVGJF_IuEFHWnZ2dnUVZ_rcAAAAA@giganews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <xqudnRqqnaLLNFHWnZ2dnUVZ8lWdnZ2d@pipex.net>
Lines: 34
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2PvDkKPCPUW1LAC3EQj7ajtjtjlU!HbngUaad2KDYcOqFXiEMapp6nQ==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3324

brian whatcott wrote:
> AndyS wrote:
>> On Apr 18, 9:22 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>>> I have an HF amp that uses a single 811A in grounded grid. The power
>>> transformer smoked. The transformer was from an old TV set I think it
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>>> would be appreciated.
>>>
>>> Jimmie
>>
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>>
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>> great,
>> their construction makes it fairly easy to remove some turns...
>>
>>   I haven't tried this, ... just something to consider..

>>
>>   Andy W4OAH
>
>
> Hmmm....come to think of it - they tend to go to 1000V AC secondaries -
> but there is plenty of stray magnetic circuit usually provided which
> might need knocking out of the core...
>
> Brian W

============================
Another problem being the transformer laminates often welded across.

I wouldn't use a microwave oven transformer for a transmitter power supply.

Frank

```
From -3071819615362997201
X-Google-Thread: 241b302a50,fcd5a1d0918587f1
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 Apr 2010 13:59:14 -0500
Date: Mon, 19 Apr 2010 19:59:12 +0100
From: highlandham <highlandham.nospam@rfburns.eu>
User-Agent: Thunderbird 2.0.0.23 (X11/20100301)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer replacement
References: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
<k8KdnWjdvLm-2FHWnZ2dnUVZ8udi4p2d@pipex.net>
<t8idnVaJF_KuEFHWnZ2dnUVZ_rednZ2d@giganews.com>
In-Reply-To: <t8idnVaJF_KuEFHWnZ2dnUVZ_rednZ2d@giganews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <jtadnXxg_oOfNVHWnZ2dnUVZ8s6dnZ2d@pipex.net>
Lines: 34
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.110.145.60
X-Trace: sv3-bhiTZrHewdZsDhvlUgBjuBzDTYoh0WFgFGt8PwlrGxsVGZq7PJLtqc8rN/
+KdKlV8GYwZmThRaywdf7!AhULyZgtZ+V7telBW5xtCCFCw+iLy7Qm0kA1CwjmOzFvD5YA5xzHpIUe+
+N7GN+C976QQVEsiiZf!Qwn6Mt1+ggpzNA1sn1xlYwDXZQ==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3323
```

```
brian whatcott wrote:
> highlandham wrote:
>> JIMMIE wrote:
>>> I have an HF amp that uses a single 811A in grounded grid. The power
>>> transformer smoked. The transformer was from an old TV set I think it
>>> was rated at 540VAC on the sec and I ran it into a voltage doubler for
>>> about 1300 VDC  . Any info on something I could use as a replacement
>>> would be appreciated.
>>>
>>> Jimmie
>> ==============================
>> If you are in the UK I would be able to help you.
>>
>> Frank GM0CSZ/KN6WH     in northern Scotland
>
> Ha! Jimmie is not being helpful if he does not indicate the primary
> volts he expects to provide.
>
> One clunky solution is to connect in series the outputs of two 240 volt
> secondary  transformers, while setting the input tap as low as it will
> go.   Inputs volts, and desired output current and volts would be good
> to know...
>
> Brian W
================================
I might have a HV transformer for 240V-50HZ with a mid-tap for 120V.
50Hz Transformers work well on 60 Hz.....but not necessarily the other
way around because a 60Hz transformer has a smaller laminates pack

I have a US made 230V-60hz Astron 13.8V-50A PSU causing AC power trips.
I am going to change the 60Hz transformer for a similar
50Hz transformer.

Frank     GM0CSZ  / KN6WH


From -3574941148823580314
X-Google-Thread: fc2a5,fcd5a1d0918587f1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!x42g2000vba.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer replacement
Date: Mon, 19 Apr 2010 15:29:34 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <9b23d0aa-21c7-4d65-9b8b-aef615306ce7@x42g2000vba.googlegroups.com>
References: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
NNTP-Posting-Host: 99.92.119.140
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1271716174 5967 127.0.0.1 (19 Apr 2010 22:29:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Apr 2010 22:29:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x42g2000vba.googlegroups.com; posting-host=99.92.119.140;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
     rv:1.8.1.24pre) Gecko/20100228 K-Meleon/1.5.4,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3622

On Apr 18, 10:22 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> I have an HF amp that uses a single 811A in grounded grid. The power
> transformer smoked. The transformer was from an old TV set I think it
> was rated at 540VAC on the sec and I ran it into a voltage doubler for
> about 1300 VDC  . Any info on something I could use as a replacement
> would be appreciated.
>
> Jimmie
HEY OM:
My choice is a MOT, with zero crossing phase controlled primary with
lots of snubbers and filters. Put the MOT in a box with a fan. A zero
crossing traic opto coupler regulated by a TL431 with an inverter pass
transistor. Power the TL431 seperately and make sure your voltage
divider resistors can handle the voltage, I use 1 meg 1/4 watt. they
can handle about 200 volts a piece.  An MOT can put out up to 2400 VDC
no load depending on the type. You going to need a 25amp traic at
600prv or more. You can figure the TL431 to regulate that puppy at
1300VDC easy. And the zero crossing traic opto coupler gives you
tonnes of isolation. Been there done that.

73 OM
n8zu



From 1356788243239933927
X-Google-Thread: fc2a5,fcd5a1d0918587f1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!o15g2000vbb.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer replacement
Date: Mon, 19 Apr 2010 16:43:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <4a474737-549e-4b5a-bc14-4d0e10634d32@o15g2000vbb.googlegroups.com>
References: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
NNTP-Posting-Host: 71.75.73.222
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1271720593 16094 127.0.0.1 (19 Apr 2010 23:43:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Apr 2010 23:43:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o15g2000vbb.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3623
```

On Apr 18, 10:22=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:

> I have an HF amp that uses a single 811A in grounded grid. The power
> transformer smoked. The transformer was from an old TV set I think it
> was rated at 540VAC on the sec and I ran it into a voltage doubler for
> about 1300 VDC =A0. Any info on something I could use as a replacement
> would be appreciated.
>
> Jimmie

I found a transformer that would work out in the barn but it is
freaking huge, I would never get it in the box.

Jimmie

```
From -3337591100067082856
X-Google-Thread: fc2a5,fcd5a1d0918587f1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!feeder.eternal-september.org!eternal-september.org!.POSTED!not-
for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer replacement
Date: Mon, 19 Apr 2010 19:10:15 -0400
Organization: A noiseless patient Spider
Lines: 16
Message-ID: <hqirij$qk6$1@news.eternal-september.org>
References: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Tue, 20 Apr 2010 00:13:07 +0000 (UTC)
Injection-Info: news.eternal-september.org; posting-host="xmRjhZP9GASTUHuPcWKz9Q";
     logging-data="27270"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19zx9KvGGy5+R2OtSFElVmaRyC5gIM4mLM="
```

```
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
In-Reply-To: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
Cancel-Lock: sha1:s8DQZLrtks66d1zLV95giQfxJyY=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3327

JIMMIE wrote:
> I have an HF amp that uses a single 811A in grounded grid. The power
> transformer smoked. The transformer was from an old TV set I think it
> was rated at 540VAC on the sec and I ran it into a voltage doubler for
> about 1300 VDC  . Any info on something I could use as a replacement
> would be appreciated.
>
> Jimmie
http://www.antekinc.com/details.php?p=92
I was thinking of using this transformer for the same purpose.
I assume this is the single 811A amplifier in the 1967 ARRL handbook?
If you use this transformer you can put the secondary windings in series
and use a bridge rectifier instead of the voltage doubler.  You will get
  slightly higher voltage this way (the tube won't mind).  I think this
transformer might be able to handle TWO 811A's in parallel if you want
to beef up the amp.



From -173960190828333010
X-Google-Thread: fc2a5,fcd5a1d0918587f1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!h21g2000vba.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer replacement
Date: Mon, 19 Apr 2010 19:03:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 44
Message-ID: <2d945e81-a89a-4f64-910a-de11f49e898b@h21g2000vba.googlegroups.com>
References: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
     <4bf6d6fc-22a6-497c-8073-f5f3026aad29@x3g2000yqd.googlegroups.com>
     <t8idnVGJF_IuEFHWnZ2dnUVZ_rcAAAAA@giganews.com>
<xqudnRqqnaLLNFHWnZ2dnUVZ8lWdnZ2d@pipex.net>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1271728985 15671 127.0.0.1 (20 Apr 2010 02:03:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 20 Apr 2010 02:03:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h21g2000vba.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
```

```
     Gecko/20100401 Firefox/3.6.3 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3625

On Apr 19, 3:04=A0pm, highlandham <highlandham.nos...@rfburns.eu> wrote:
> brian whatcott wrote:
> > AndyS wrote:
> >> On Apr 18, 9:22 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> >>> I have an HF amp that uses a single 811A in grounded grid. The power
> >>> transformer smoked. The transformer was from an old TV set I think it
> >>> was rated at 540VAC on the sec and I ran it into a voltage doubler fo=
r
> >>> about 1300 VDC =A0. Any info on something I could use as a replacemen=
t
> >>> would be appreciated.
>
> >>> Jimmie
>
> >> Andy comments:
>
> >> =A0 You might investigate using a high voltage transformer from an old
> >> microwave oven...... =A0If the secondary voltage turns out to be too
> >> great,
> >> their construction makes it fairly easy to remove some turns...
>
> >> =A0 =A0I haven't tried this, .... just something to consider..
>
> >> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Andy W4OAH
>
> > Hmmm....come to think of it - they tend to go to 1000V AC secondaries -
> > but there is plenty of stray magnetic circuit usually provided which
> > might need knocking out of the core...
>
> > Brian W
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D
> Another problem being the transformer laminates often welded across.
>
> I wouldn't use a microwave oven transformer for a transmitter power suppl=
y.
>
> Frank

They used to have magnetic shunts you could knock out with a hammer.
Not any more.

Jimmie


From -3949757143055984838
X-Google-Thread: fc2a5,fcd5a1d0918587f1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
```

```
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!t17g2000vbk.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer replacement
Date: Tue, 20 Apr 2010 09:49:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 29
Message-ID: <74fa6e59-b934-4d13-a047-66f745524741@t17g2000vbk.googlegroups.com>
References: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
     <hqirij$qk6$1@news.eternal-september.org>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1271782185 9240 127.0.0.1 (20 Apr 2010 16:49:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 20 Apr 2010 16:49:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t17g2000vbk.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3626

On Apr 19, 7:10=A0pm, Kenneth Scharf <wa2...@bellsouth.net> wrote:
> JIMMIE wrote:
> > I have an HF amp that uses a single 811A in grounded grid. The power
> > transformer smoked. The transformer was from an old TV set I think it
> > was rated at 540VAC on the sec and I ran it into a voltage doubler for
> > about 1300 VDC =A0. Any info on something I could use as a replacement
> > would be appreciated.
>
> > Jimmie
>
> http://www.antekinc.com/details.php?p=3D92
> I was thinking of using this transformer for the same purpose.
> I assume this is the single 811A amplifier in the 1967 ARRL handbook?
> If you use this transformer you can put the secondary windings in series
> and use a bridge rectifier instead of the voltage doubler. =A0You will ge=
t
> =A0 slightly higher voltage this way (the tube won't mind). =A0I think th=
is
> transformer might be able to handle TWO 811A's in parallel if you want
> to beef up the amp.

Yes that is the one, more or less, Back when I was in high school I
built it as a CB amplifier in my junior year 69-70, Im so ashamed. I
do have another power supply I might could use with it. Its built in a
rack mount chassis and would not be my first choice. Ive found 200W
PEP to be more than adequate but I may consider that option. I wanted
```

```
to complete the amplifier by adding the rest of the ham bands.\\

Jimmie


From -2345257385251987837
X-Google-Thread: 241b302a50,1b4e98586bd7953a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!
newsfeed2.telusplanet.net!newsfeed.telus.net!news-in-02.newsfeed.easynews.com!
easynews!core-easynews-01!easynews.com!en-nntp-06.dc1.easynews.com.POSTED!not-for-
mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <93416bd7-cb98-4c82-99fa-4897c9c33b6d@w42g2000yqm.googlegroups.com>
Subject: Re: 3rd edition of W2DU's Reflections is now available from CQ
Communications, Inc.
Lines: 12
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <DXmzn.563643$FK3.225633@en-nntp-06.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Tue, 20 Apr 2010 12:07:14 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:3330

"walt" <walt@w2du.com> wrote in message
news:93416bd7-cb98-4c82-99fa-4897c9c33b6d@w42g2000yqm.googlegroups.com...
> To order a copy of W2DU's Reflections III, go to the W2DU web page at
> www.w2du.com and click on: Click here to order Reflections III.

Wow, Walt, I didn't think you were going to go beyond the 2nd edition! :-)

What's new in the 3rd?

Thanks,
---Joel



From -4367384171669498639
```

X-Google-Thread: fc2a5,e77e0a5c01a3b92,start
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,e77e0a5c01a3b92,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o15g2000pra.googlegroups.com!not-for-mail
From: zaqwsx147852 <hjin17@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: Porsche Design Watch
Date: Wed, 21 Apr 2010 21:36:18 -0700 (PDT)
Organization: http://groups.google.com
Lines: 117
Message-ID: <54486d80-1f98-479e-b7db-3540f4e5e6fa@o15g2000pra.googlegroups.com>
NNTP-Posting-Host: 218.64.43.247
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1271910978 12905 127.0.0.1 (22 Apr 2010 04:36:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 22 Apr 2010 04:36:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o15g2000pra.googlegroups.com; posting-host=218.64.43.247;
posting-account=mSZRUgoAAADGiZ1WnrJCWSpDr-THM41l
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
QQPinyin 730; .NET CLR 2.0.50727),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3628
rec.puzzles.crosswords:7651

Ebel Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Bape Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Bell&Ross Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Breit Ling Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Burberry Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Cartier Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Chopard Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
D&G Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Givenchy Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Jacob&Co Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Kappa Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Prada Watch wholesale (paypal payment) (http://

www.supertradeonline06.com/)
Tissot Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Titoni Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
U-BOAT Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Zenith Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
A.Lange&Sohne Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Audemars Piguet Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Baume&Mercier Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Blancpain Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Breguet Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
BRM Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Bvlgari Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Chanel Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Concord Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Corum Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Dewitt Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Ferrari Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Franck Muller Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Girard Perregaux Watch (paypal payment) (http://
www.supertradeonline06.com/)
Glashutte Watch (paypal payment) (http://
www.supertradeonline06.com/)
Graham Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
GUCCI Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
GUESS Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Hamilton Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Hermes Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)
Hublot Watch wholesale (paypal payment) http://www.supertradeonline06.com/
)
IWC Watch wholesale (paypal payment) (http://
www.supertradeonline06.com/)

Jaeger Le Coultre Watch wholesale (paypal payment) (http://www.supertradeonline06.com/)
Longines Watch wholesale (paypal payment) (http://www.supertradeonline06.com/)
LV Watch wholesale (paypal payment) (http://www.supertradeonline06.com/)
Montblanc Watch wholesale (paypal payment) (http://www.supertradeonline06.com/)
Movado Watch wholesale (paypal payment) (http://www.supertradeonline06.com/)
Omega Watch wholesale (paypal payment) (http://www.supertradeonline06.com/)
Oris Watch wholesale (paypal payment) (http://www.supertradeonline06.com/)
Paket Philippe Watch wholesale (paypal payment) (http://www.supertradeonline06.com/)
Panerai Watch wholesale (paypal payment) (http://www.supertradeonline06.com/)
Parmigiani Fleurier Watch wholesale (paypal payment) (http://www.supertradeonline06.com/)
Piaget Watch wholesale (paypal payment) (http://www.supertradeonline06.com/)
Porsche Design Watch wholesale (paypal payment) (http://www.supertradeonline06.com/)
Rolex Watch wholesale (paypal payment) (http://www.supertradeonline06.com/)
Romain Jerome Titanic-Dna Watch wholesale (paypal payment)(http://www.supertradeonline06.com/)
Tag Heuer Watch wholesale (paypal payment) (http://www.supertradeonline06.com/)
Tudor Watch wholesale (paypal payment) (http://www.supertradeonline06.com/)
Vach.Constantine Watch wholesale (paypal payment) (http://www.supertradeonline06.com/)
Armani Watch wholesale (paypal payment) (http://www.supertradeonline06.com/)
RADO Watch wholesale (paypal payment) (http://www.supertradeonline06.com/)

From 4659802581230364776
X-Google-Thread: fc2a5,3a7361dc27f215a9,start
X-Google-NewGroupId: yes
X-Google-Thread: 1108d7,3a7361dc27f215a9,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gid82c8fee960,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!postnews.google.com!v12g2000prb.googlegroups.com!not-for-mail
From: "www.brandtrade10.com" <thetiantang@yahoo.cn>

```
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: G-Star Man T-Shirt cheap sale (http://www.brandtrade10.com  )
Date: Thu, 22 Apr 2010 07:40:10 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <25e357f3-3eed-42ca-8d15-c6e0fa066686@v12g2000prb.googlegroups.com>
NNTP-Posting-Host: 59.58.137.223
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1271947210 4936 127.0.0.1 (22 Apr 2010 14:40:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 22 Apr 2010 14:40:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v12g2000prb.googlegroups.com; posting-host=59.58.137.223;
     posting-account=Wqz65QoAAADjmz_X0tg1ve0KPU516LAB
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1;
     Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
     3.0.30729; MALN),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3332
rec.puzzles.crosswords:7111

Burberry Man T-Shirt cheap sale (http://www.brandtrade10.com  )
Christan Audigier T-Shirt cheap sale (http://www.brandtrade10.com  )
Coogi Man T-Shirt cheap sale (http://www.brandtrade10.com  )
Crown Holder Man T-Shirt cheap sale (http://www.brandtrade10.com  )
D&G Man T-Shirt cheap sale (http://www.brandtrade10.com  )
Diesel Man T-Shirt cheap sale (http://www.brandtrade10.com  )
Ecko Man T-Shirt cheap sale (http://www.brandtrade10.com  )
ED Hardy T-Shirt cheap sale (http://www.brandtrade10.com  )
Evisu Man T-Shirt cheap sale (http://www.brandtrade10.com  )
Gino Green Global Man T-Shirt cheap sale (http://
www.brandtrade10.com  )
G-Star Man T-Shirt cheap sale (http://www.brandtrade10.com  )
Juicy Women T-Shirt cheap sale (http://www.brandtrade10.com  )
Lacoste T-Shirt cheap sale (http://www.brandtrade10.com  )
LEVI=92S Man T-Shirt cheap sale (http://www.brandtrade10.com  )
LRG Man T-Shirt cheap sale (http://www.brandtrade10.com  )
LV Man T-Shirt cheap sale (http://www.brandtrade10.com  )
Nike Man T-Shirt cheap sale (http://www.brandtrade10.com  )
POLO T-Shirt cheap sale (http://www.brandtrade10.com  )
SMET Man T-Shirt cheap sale (http://www.brandtrade10.com  )
Smful Man T-Shirt cheap sale (http://www.brandtrade10.com  )
Versace Man T-Shirt cheap sale (http://www.brandtrade10.com  )


From 4621542431197639215
X-Google-Thread: fc2a5,6a9583b24789d38c,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j1g2000vbr.googlegroups.com!not-for-
```

```
mail
From: Pat B <aa6egsparky@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Sourcing parts for a Hombrew  2 x 3-500Z  or GS 35B amp
Date: Thu, 22 Apr 2010 10:24:40 -0700 (PDT)
Organization: http://groups.google.com
Lines: 68
Message-ID: <b449aed9-3dce-45ad-ae67-a6e22d1a4a95@j1g2000vbr.googlegroups.com>
NNTP-Posting-Host: 24.32.33.65
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1271957080 12407 127.0.0.1 (22 Apr 2010 17:24:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 22 Apr 2010 17:24:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j1g2000vbr.googlegroups.com; posting-host=24.32.33.65;
     posting-account=sheCwAkAAADyIYrM6mJI8yud6ojJeO-b
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
     Trident/4.0; GTB6.4; .NET CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR
     3.0.4506.2152; .NET CLR 3.5.30729; OfficeLiveConnector.1.3;
     OfficeLivePatch.0.0),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3630
```

HI Folks,

After a long hiatus from HF and HF amps, (Just got back from an incredible Arecibo Moon Bounce activation; a 60dbi gain antenna on 432 is a transforming exprience)

I am helping someone build a homebrew amp,   a pair of 3-500Zs for a friend in South America. First, I wonder if anyone (Preferably living near Buenos Aires, or Montevideo, has for sale a 2 x 3-500Z amp commercial, or hombrew?   Even better, an unfinished one, or a commercial "Basket Case" in the Heathkit SB 220, L4B or Kenwood TL 922 genre. I have most of the components for such an amp, here is W6 land, and can easily ship the lighter components, to the ham who is building it. I would rather source locally, (Uruguay or Argentina, or perhaps Brazil) the heavier components, the B+ Power Supply transformer, and 30 amp 5V filament tranformer, etc, and maybe even a chassis/Front panel.

Being a resourceful guy, I would also be willing to canvas the lower power broadcast radio stations, finding engineers who are ham friendly, with spares, storage rooms of things like Plate transformers in the 2KW, 4000 volt class. I think I might be able to find those engineers, through internet searches, of Broadcast Engineers in Uruguay, or perhaps Buenos Aires.

The ham who wants to go QRO, lives in Uruguay, and the three major metropolitan areas that might source hams, parts, or surplus broadcast components, are Montevideo, Salto, and down the road a piece, Buenos Aires.

I also have been out of the loop in HF amps, specifically 3-500Z tubes. All my past experience with these has been with EIMAC tubes. Are there quality Chinese or other maker 3-500Z tubes out there? Which ones, are good value?

Also, the GS-35B used to be very cheap to reasonably priced powerful tube. Maybe from a clean sheet of paper planning for a legal limit amp, a GS 35B is a good choice for a tube, any suggestions?   I have seen relatively simple mounts for the GS 35B, basically a Clamp of the grid ring to the chassis with a hole thru chassis to connect the relatively low current Cathode/Filament supply. The Anode cooler is impressive, and probably requires substantial pressure and flow, and a teflon or similar chimney for full dissapation.

I dont have the specs or a schematic off the top of my head, but does a GS 35B plate circuit have similar values of operating impedance as 3-500Zs at legal limit, therefore requiring similar Tune, Load, and Inductance tank values?   To get legal limit from a 3-500Z pair requires higher than usual commercial design B+ voltages, perhaps 4KV. Is the GS 35B happy with 4KV on the plate, or is it happier for full legal limit/100 watts drive, with higher voltage?

So.... just a few basic questions for this OT, who has been away for a while.

BTW, several years ago, I sold a homebrew 2 x 813 Amp to a guy in the mid west, whose call and name I dont remember, but I found the schematics, and the original control wiring harness for that amp, which I had misplaced at the time of pickup. If you recognize me, or that 813 amp, get in touch, I can send you the wiring harness...
Thanks, best, 73,
Pat Barthelow AA6EG   best email is apolloeme@live.com

From 8885764461932430340
X-Google-Thread: fc2a5,67d2ea8dd84170b8,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!goblin3!gin-ad1-unet1.teleglobe.net!goblin1!goblin2!goblin.stu.neva.ru!feeder.erje.net!news.glorb.com!news2.glorb.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 23 Apr 2010 05:11:29 -0500
From: dspurg7310 <dspurg7310.61727c5@radiobanter.com>

Newsgroups: rec.radio.amateur.homebrew
Subject: Build A Repeater
Date: Fri, 23 Apr 2010 05:56:31 +0100
Message-ID: <dspurg7310.61727c5@radiobanter.com>
Organization: RadioBanter.com
Lines: 18
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-X2z3xXqsWYLMK+dNOe+/
jR04NUSGEvj04Zv6EMhJmIW9kNbYTtcXGIAW06Cz86iLB7jO8daXlFyBG8C!
RNWxGgVbyAGcfMyjo8ATqFpUiZg+oRl64qxf9Ti+AGXeQdW0HGOtXRqSyjHjtyEHvbvMEx01h0wJ!
4SjGOyjg
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
X-Original-Lines: 7
Xref: g2news2.google.com rec.radio.amateur.homebrew:3631

I am really new at electronics projects. I am trying to build a repeater out of two mobile VHF radios and I'm not sure how to solve a problem I am having:

My main problem is with the radio that I want to transmit. It does not have VOX mode on it and I'm not sure how to get the first radio to trigger the second radio to transmit. Is there a simple way to do this or do I actually need a radio with VOX capability?

Thanks in advance for any and all help I may receive!

-David.

--
dspurg7310

From 2742172973098880687
X-Google-Thread: fc2a5,67d2ea8dd84170b8
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 23 Apr 2010 05:46:24 -0500
From: "Dave M" <dgminala4444@mediacombb.net>
Newsgroups: rec.radio.amateur.homebrew
References: <dspurg7310.61727c5@radiobanter.com>
Subject: Re: Build A Repeater

```
Date: Fri, 23 Apr 2010 05:46:23 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <VvCdnT-jUawd50zWnZ2dnUVZ_sOdnZ2d@giganews.com>
Lines: 27
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-ry83R2/kqsw5DJlTHc2EmydO5VYxVE+vNmb1/
OIjaCrnfmN9LTpWnPfNMB2P3WAFjDmSkRU5+wwDg3h!
FKtZe9XySKs9DAjy2Mc+8GRLzcdlhGIQIW1t9NezFO8L2taPYkMQ80yU7aIeUQnJbHc7jAcFgjBe
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3632
```

dspurg7310 wrote:

> I am really new at electronics projects. I am trying to build a repeater out of two mobile VHF radios and I'm not sure how to solve a problem I am having:
>
> My main problem is with the radio that I want to transmit. It does not have VOX mode on it and I'm not sure how to get the first radio to trigger the second radio to transmit. Is there a simple way to do this or do I actually need a radio with VOX capability?
>
> Thanks in advance for any and all help I may receive!
>
> -David.

Surf over to the Repeater Builder page at http://www.repeater-builder.com/products// They have lots of info on repeaters and some of the problems associated with converrting a mobile unit to repeater service.
Be sure to look at the technical info page at http://www.repeater-builder.com/rbtip/index.html#main-index. It has lots of links to other sites that might come in handy.

--
David
dgminala at mediacombb dot net

```
From -1718112170462105054
X-Google-Thread: fc2a5,67d2ea8dd84170b8
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
newsfeed.xs4all.nl!newsfeed5.news.xs4all.nl!xs4all!post.news.xs4all.nl!not-for-
mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Build A Repeater
References: <dspurg7310.61727c5@radiobanter.com>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrnht3hg9.nio.nomail@xs8.xs4all.nl>
Date: 23 Apr 2010 16:08:41 GMT
Lines: 17
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1272038921 news.xs4all.nl 22945 [::ffff:194.109.21.8]:39311
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:3336

dspurg7310 <dspurg7310.61727c5@radiobanter.com> wrote:
>
> I am really new at electronics projects. I am trying to build a repeater
> out of two mobile VHF radios and I'm not sure how to solve a problem I
> am having:
>
> My main problem is with the radio that I want to transmit. It does not
> have VOX mode on it and I'm not sure how to get the first radio to
> trigger the second radio to transmit. Is there a simple way to do this
> or do I actually need a radio with VOX capability?

You need to build a circuit that connects the Squelch signal from your
receiving radio to the PTT input of the transmitting radio.
This could be as simple as a transistor and a resistor, it could add
some timer(s) and tone generator(s), or it could be a complicated circuit
with a microcontroller.
It all depends on how you want the repeater to behave.


From -5925985340455189045
X-Google-Thread: fc2a5,fcd5a1d0918587f1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!v14g2000yqb.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer replacement
Date: Fri, 23 Apr 2010 14:36:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <b447fdf1-35c0-41b2-9fd6-69c482f925bf@v14g2000yqb.googlegroups.com>
```

```
References: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1272058573 4049 127.0.0.1 (23 Apr 2010 21:36:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 23 Apr 2010 21:36:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v14g2000yqb.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3337

On Apr 18, 10:22=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> I have an HF amp that uses a single 811A in grounded grid. The power
> transformer smoked. The transformer was from an old TV set I think it
> was rated at 540VAC on the sec and I ran it into a voltage doubler for
> about 1300 VDC =A0. Any info on something I could use as a replacement
> would be appreciated.
>
> Jimmie

Ive got a couple of Variacs less the mechanical bits. I was
considering the possibility of winding a secondary on these.

Jimmie



From 6164389958514863162
X-Google-Thread: fc2a5,fcd5a1d0918587f1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!11g2000yqr.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer replacement
Date: Fri, 23 Apr 2010 14:38:03 -0700 (PDT)
Organization: http://groups.google.com
Lines: 27
Message-ID: <77a9d291-2efd-4c36-85e6-f3309ba9c5b2@11g2000yqr.googlegroups.com>
References: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
     <k8KdnWjdvLm-2FHWnZ2dnUVZ8udi4p2d@pipex.net>
<t8idnVaJF_KuEFHWnZ2dnUVZ_rednZ2d@giganews.com>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1272058683 5586 127.0.0.1 (23 Apr 2010 21:38:03 GMT)
```

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 23 Apr 2010 21:38:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 11g2000yqr.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3,gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3635

On Apr 19, 1:03=A0pm, brian whatcott <betw...@sbcglobal.net> wrote:
> highlandham wrote:
> > JIMMIE wrote:
> >> I have an HF amp that uses a single 811A in grounded grid. The power
> >> transformer smoked. The transformer was from an old TV set I think it
> >> was rated at 540VAC on the sec and I ran it into a voltage doubler for
> >> about 1300 VDC =A0. Any info on something I could use as a replacement
> >> would be appreciated.
>
> >> Jimmie
> > =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D
> > If you are in the UK I would be able to help you.
>
> > Frank GM0CSZ/KN6WH =A0 =A0 in northern Scotland
>
> Ha! Jimmie is not being helpful if he does not indicate the primary
> volts he expects to provide.
>
> One clunky solution is to connect in series the outputs of two 240 volt
> secondary =A0transformers, while setting the input tap as low as it will
> go. =A0 Inputs volts, and desired output current and volts would be good
> to know...
>
> Brian W

Old TV transformer, 120VAC


From -8812695125341096301
X-Google-Thread: fc2a5,67d2ea8dd84170b8
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-
me.highwinds-media.com!spln!extra.newsguy.com!newsp.newsguy.com!news3
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Build A Repeater
Date: Fri, 23 Apr 2010 17:51:12 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 39
```

Message-ID: <hqt4os0jmh@news3.newsguy.com>
References: <dspurg7310.61727c5@radiobanter.com>
<slrnht3hg9.nio.nomail@xs8.xs4all.nl>
NNTP-Posting-Host: pefb15ee34b541ab1aa1b1b8e9b3f9f8f552d564a613256bf.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
In-Reply-To: <slrnht3hg9.nio.nomail@xs8.xs4all.nl>
X-Antivirus: avast! (VPS 100423-1, 04/23/2010), Outbound message
X-Antivirus-Status: Clean
Xref: g2news2.google.com rec.radio.amateur.homebrew:3636

Rob wrote:
> dspurg7310 <dspurg7310.61727c5@radiobanter.com> wrote:
>> I am really new at electronics projects. I am trying to build a repeater
>> out of two mobile VHF radios and I'm not sure how to solve a problem I
>> am having:
>>
>> My main problem is with the radio that I want to transmit. It does not
>> have VOX mode on it and I'm not sure how to get the first radio to
>> trigger the second radio to transmit. Is there a simple way to do this
>> or do I actually need a radio with VOX capability?
>
> You need to build a circuit that connects the Squelch signal from your
> receiving radio to the PTT input of the transmitting radio.
> This could be as simple as a transistor and a resistor, it could add
> some timer(s) and tone generator(s), or it could be a complicated circuit
> with a microcontroller.
> It all depends on how you want the repeater to behave.

Ah, brings back memories! Permit me a few words of bandwidth.

I built our club's repeater in the 70s. WR4ARO, iirc. Don't recall
much but it was a Motorola Sensicon (A?) receiver strip and an RCA
transmitter strip. It wasn't quite as simple as tagging off the squelch
to key the xmtr, although that could work functionally. I built a COR
(Carrier Operated Relay) circuit from a 73 Magazine article.

The gist of it is that you need some 'hang-time' with a repeater to deal
with mobile drop outs, and you need to be able to sub in the callsign ID
at intervals and deal with timers and such to allow the thing to shut
off transmitting in the case of noise or a deadman on the mike.

Much easier these days since rptr circuits are more commonplace and
well-designed.

Think outside of the VOX box.

GL,
Bill

```
From -3555790718485816359
X-Google-Thread: fc2a5,fcd5a1d0918587f1
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!k33g2000yqc.googlegroups.com!not-for-
mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transformer replacement
Date: Fri, 23 Apr 2010 22:13:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 54
Message-ID: <a133618d-5b23-4e01-b58b-fe1898bef87c@k33g2000yqc.googlegroups.com>
References: <f674d861-eb7a-43da-83e8-be0c13bec910@r1g2000yqb.googlegroups.com>
     <k8KdnWjdvLm-2FHWnZ2dnUVZ8udi4p2d@pipex.net>
<t8idnVaJF_KuEFHWnZ2dnUVZ_rednZ2d@giganews.com>
     <77a9d291-2efd-4c36-85e6-f3309ba9c5b2@11g2000yqr.googlegroups.com>
NNTP-Posting-Host: 142.162.128.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1272086030 16192 127.0.0.1 (24 Apr 2010 05:13:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 24 Apr 2010 05:13:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k33g2000yqc.googlegroups.com; posting-host=142.162.128.246;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     GTB6.4),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3637
```

On Apr 23, 7:38=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> On Apr 19, 1:03=A0pm, brian whatcott <betw...@sbcglobal.net> wrote:
>
>
>
>
>
> > highlandham wrote:
> > > JIMMIE wrote:
> > >> I have an HF amp that uses a single 811A in grounded grid. The power
> > >> transformer smoked. The transformer was from an old TV set I think i=
t
> > >> was rated at 540VAC on the sec and I ran it into a voltage doubler f=
or
> > >> about 1300 VDC =A0. Any info on something I could use as a replaceme=
nt
> > >> would be appreciated.
>
> > >> Jimmie

```
> > > =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D
> > > If you are in the UK I would be able to help you.
>
> > > Frank GM0CSZ/KN6WH =A0 =A0 in northern Scotland
>
> > Ha! Jimmie is not being helpful if he does not indicate the primary
> > volts he expects to provide.
>
> > One clunky solution is to connect in series the outputs of two 240 volt
> > secondary =A0transformers, while setting the input tap as low as it wil=
l
> > go. =A0 Inputs volts, and desired output current and volts would be goo=
d
> > to know...
>
> > Brian W
>
> Old TV transformer, 120VAC- Hide quoted text -
>
> - Show quoted text -

Old TV set transformer probably give 350-0-350 that could be voltage
doubled to produce say 1200 volts DC filtered and/or stepped up.down
by putting some of the other windings in series with say the primary.
For example if the 5 volt rectifier heater winding placed in series
with the 115 volt primary winding (voltage bucking) it could oppose
the input by some four per cent. Putting the 6,3 volt and the 5 volt
in series would reduce the primary input voltage by some (5 + 6.3) /
115 =3D 0.098 or roughly ten per cent ........... and so on!

Tested the voltage ratio of a 115 volt ex microwave oven transformer
and it was approximately 20 to 1.  Or about 2300 RMS out. If that were
half wave rectified with suitable filtering DC out could be say around
1100 v. DC?



From 4994902490020967965
X-Google-Thread: fc2a5,cf1bc32b82c7c850,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news2.google.com!postnews.google.com!k5g2000prg.googlegroups.com!not-for-
mail
From: "www.brandtrade10.com" <yinweinisb@yahoo.cn>
Newsgroups: rec.radio.amateur.homebrew,rec.puzzles.crosswords
Subject: Baby T-Shirt paypal wholesale http://www.brandtrade10.com
Date: Sat, 24 Apr 2010 00:45:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 37
Message-ID: <0d19fbf0-ef7c-4b9b-bd46-aac5b989058d@k5g2000prg.googlegroups.com>
NNTP-Posting-Host: 59.58.157.107
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1272095130 8553 127.0.0.1 (24 Apr 2010 07:45:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 24 Apr 2010 07:45:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k5g2000prg.googlegroups.com; posting-host=59.58.157.107;
     posting-account=8Mqs3woAAAC_-Hmzjp8Oln8nddLvh5TB
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1;
     Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
     3.0.30729; MALN),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3638
rec.puzzles.crosswords:7672


online store paypal sale http://www.brandtrade10.com



T-Shirt paypal sale http://www.brandtrade10.com
A&F T-Shirt paypal sale http://www.brandtrade10.com
AFF Man T-Shirt paypal sale http://www.brandtrade10.com
Armani T-Shirt paypal sale http://www.brandtrade10.com
Bape Man T-Shirt paypal sale http://www.brandtrade10.com
BBC Man T-Shirt paypal sale http://www.brandtrade10.com
Blar Label Man T-Shirt paypal sale http://www.brandtrade10.com
Burberry Man T-Shirt paypal sale http://www.brandtrade10.com
Christan Audigier T-Shirt paypal sale http://www.brandtrade10.com
Coogi Man T-Shirt paypal sale http://www.brandtrade10.com
D&G Man T-Shirt paypal sale http://www.brandtrade10.com
Diesel Man T-Shirt paypal sale http://www.brandtrade10.com
Ecko Man T-Shirt paypal sale http://www.brandtrade10.com
ED Hardy T-Shirt paypal sale http://www.brandtrade10.com
Evisu Man T-Shirt paypal sale http://www.brandtrade10.com
Gino Green Global Man T-Shirt paypal sale http://www.brandtrade10.com
G-Star Man T-Shirt paypal sale http://www.brandtrade10.com
Juicy Women T-Shirt paypal sale http://www.brandtrade10.com
Lacoste T-Shirt paypal sale http://www.brandtrade10.com
LEVI=92S Man T-Shirt paypal sale http://www.brandtrade10.com
LV Man T-Shirt paypal sale http://www.brandtrade10.com
Nike Man T-Shirt paypal sale http://www.brandtrade10.com
POLO T-Shirt paypal sale http://www.brandtrade10.com
SMET Man T-Shirt paypal sale http://www.brandtrade10.com
Smful Man T-Shirt paypal sale http://www.brandtrade10.com
Versace Man T-Shirt paypal sale http://www.brandtrade10.com
GUCCI T-Shirt paypal sale http://www.brandtrade10.com
Crown Holder T-Shirt paypal sale http://www.brandtrade10.com
Baby T-Shirt paypal sale http://www.brandtrade10.com
Akademiks T-Shirt paypal sale http://www.brandtrade10.com
Adidas T-Shirt paypal sale http://www.brandtrade10.com
5ive Jungle T-Shirt paypal sale http://www.brandtrade10.com
Rocawear T-Shirt paypal sale http://www.brandtrade10.com
```

```
From -7884214636494664883
X-Google-Thread: fc2a5,67d2ea8dd84170b8
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!goblin1!goblin.stu.neva.ru!hq-
usenetpeers.eweka.nl!81.171.88.250.MISMATCH!newsfeed.eweka.nl!eweka.nl!
feeder3.eweka.nl!newsfeed.xs4all.nl!newsfeed5.news.xs4all.nl!xs4all!
post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Build A Repeater
References: <dspurg7310.61727c5@radiobanter.com>
 <slrnht3hg9.nio.nomail@xs8.xs4all.nl> <hqt4os0jmh@news3.newsguy.com>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrnht5ikg.os4.nomail@xs8.xs4all.nl>
Date: 24 Apr 2010 10:40:16 GMT
Lines: 36
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1272105616 news.xs4all.nl 22937 [::ffff:194.109.21.8]:35606
X-Complaints-To: abuse@xs4all.nl
Xref: g2news2.google.com rec.radio.amateur.homebrew:3639

Bill M <radioexray@geeeemail.com> wrote:
> Rob wrote:
>> dspurg7310 <dspurg7310.61727c5@radiobanter.com> wrote:
>>> I am really new at electronics projects. I am trying to build a repeater
>>> out of two mobile VHF radios and I'm not sure how to solve a problem I
>>> am having:
>>>
>>> My main problem is with the radio that I want to transmit. It does not
>>> have VOX mode on it and I'm not sure how to get the first radio to
>>> trigger the second radio to transmit. Is there a simple way to do this
>>> or do I actually need a radio with VOX capability?
>>
>> You need to build a circuit that connects the Squelch signal from your
>> receiving radio to the PTT input of the transmitting radio.
>> This could be as simple as a transistor and a resistor, it could add
>> some timer(s) and tone generator(s), or it could be a complicated circuit
>> with a microcontroller.
>> It all depends on how you want the repeater to behave.
>
> Ah, brings back memories!  Permit me a few words of bandwidth.
>
> I built our club's repeater in the 70s.  WR4ARO, iirc.  Don't recall
> much but it was a Motorola Sensicon (A?) receiver strip and an RCA
> transmitter strip.  It wasn't quite as simple as tagging off the squelch
> to key the xmtr, although that could work functionally.  I built a COR
> (Carrier Operated Relay)  circuit from a 73 Magazine article.
```

>
> The gist of it is that you need some 'hang-time' with a repeater to deal
> with mobile drop outs, and you need to be able to sub in the callsign ID
> at intervals and deal with timers and such to allow the thing to shut
> off transmitting in the case of noise or a deadman on the mike.

That is why I wrote about timer(s) and tone generator(s). There are many
things you can add... In the 70s/80s people built very complicated
electronic circuits, but today it is normally done with a microcontroller
and software. Of course this can mean very complicated software...

```
From 4917817515445634475
X-Google-Thread: fc2a5,67d2ea8dd84170b8
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!j21g2000yqh.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Build A Repeater
Date: Sat, 24 Apr 2010 03:57:17 -0700 (PDT)
Organization: http://groups.google.com
Lines: 60
Message-ID: <58a3410b-824a-4b60-a7fc-7c45b5e8460e@j21g2000yqh.googlegroups.com>
References: <dspurg7310.61727c5@radiobanter.com>
<slrnht3hg9.nio.nomail@xs8.xs4all.nl>
     <hqt4os0jmh@news3.newsguy.com>
NNTP-Posting-Host: 99.92.119.140
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1272106637 22200 127.0.0.1 (24 Apr 2010 10:57:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 24 Apr 2010 10:57:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j21g2000yqh.googlegroups.com; posting-host=99.92.119.140;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
     rv:1.8.1.24pre) Gecko/20100228 K-Meleon/1.5.4,gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3343
```

On Apr 23, 5:51 pm, Bill M <radioex...@geeeemail.com> wrote:
> Rob wrote:
> > dspurg7310 <dspurg7310.6172...@radiobanter.com> wrote:
> >> I am really new at electronics projects. I am trying to build a repeater
> >> out of two mobile VHF radios and I'm not sure how to solve a problem I
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>
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> at intervals and deal with timers and such to allow the thing to shut
> off transmitting in the case of noise or a deadman on the mike.
>
> Much easier these days since rptr circuits are more commonplace and
> well-designed.
>
> Think outside of the VOX box.
>
> GL,
> Bill

Hey OM:
VOX is easy. Take the 8 ohm speaker output, with a step up line
transformer, match the speaker output to the mike input.
Take a 1N914 rectify the audio from the mike input, unfiltered, to the
high capacitance input of a power FET. Put a 50K pot across the gate
to ground so you can adjust the "hang time". Use the FET to drive the
PTT.
Squelch the the receive radio, so now you gots VOX to the
transmitter.
Soon as the receive radio unsquelches it keys the transmit.

The caveat here is: if you interfere with a co-ordinated repeater, you
going to have to work it out, you might end up on the losing end of
that, because you can't become co-ordinated by a State co-ordinating
counsel.

73 OM
de n8zu

From 7496424337318661219

X-Google-Thread: 241b302a50,f7b6fa10bc83a7eb,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k36g2000yqb.googlegroups.com!not-for-mail
From: daniel fitzpatrick <dpfitzjr@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Einstein's cosmolological constant repulsive force
Date: Sat, 24 Apr 2010 08:23:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <f8fd3d97-7722-4ae8-9cd4-b0d6123f2e7b@k36g2000yqb.googlegroups.com>
NNTP-Posting-Host: 204.116.183.40
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1272122635 28569 127.0.0.1 (24 Apr 2010 15:23:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 24 Apr 2010 15:23:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k36g2000yqb.googlegroups.com; posting-host=204.116.183.40;
     posting-account=F4AF1woAAAAd3xg9TXC_4l-sLs0o7_ET
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0;
     Trident/4.0; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
     3.0.30618; yie8),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3641

Einstein's cosmolological constant repulsive force

Most scientist now believe Einstein was right about this repulsive
force

(click link)

http://www.amperefitz.com/einsteins.cos.c.htm

Hope you like this,

Fitz

From -1530791544050620946
X-Google-Thread: fc2a5,42001f8e405fba12,start
X-Google-NewGroupId: yes
X-Google-Thread: fc8b1,42001f8e405fba12,start
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gidda6537b9fb,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!g23g2000yqn.googlegroups.com!not-for-mail

```
From: The Eternal Squire <eternalsquire@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Steampunk VFO?
Date: Sat, 24 Apr 2010 22:28:37 -0700 (PDT)
Organization: http://groups.google.com
Lines: 28
Message-ID: <6ad502bb-9b2d-4eb7-a101-a9744562d52a@g23g2000yqn.googlegroups.com>
NNTP-Posting-Host: 74.39.231.62
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1272173318 32563 127.0.0.1 (25 Apr 2010 05:28:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 25 Apr 2010 05:28:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g23g2000yqn.googlegroups.com; posting-host=74.39.231.62;
     posting-account=NGBBuwoAAACAVxFd0rmWzjv3rJTndRji
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0;
     FunWebProducts; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
     3.0.30618),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3642
rec.radio.amateur.boatanchors:4178
```

All,

I'm currently considering a design for making a steampunk radio. I just
had an idea for the VFO that I want to run by those who have a far
better grasp of the abstract mathematics of harmonics than I do.

Suppose I have a DC motor running steady at 1000 RPM. Through a
X100 set of planetary gears I create a shaft spinning at 20,000 RPM,
which is pretty much the upper limit for small drills anyway. On the
shaft is a disk that is an etched circuit board with a star pattern, that is,
500 conductors etched radiating from the center to the edge of the disk.

Now I have a wiper that is laid across the edge of the disk to make or
break contact with the outside of the star pattern, with 12 Volts DC
potential on the wiper. Assuming the shaft was conductive and made
firm contact with the center of the star pattern, should I see a 10 Mhz
square wave, suitable for say a switching mixer?

Question: How bad are the phase noise and harmonics likely to be?

Thanks in advance,

The Eternal Squire

```
From 4233137167323414485
X-Google-Thread: fc2a5,67d2ea8dd84170b8
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!goblin3!gin-ad1-unet1.teleglobe.net!
goblin2!goblin.stu.neva.ru!newsfeed01.sul.t-online.de!newsfeed00.sul.t-online.de!
t-online.de!border2.nntp.dca.giganews.com!novia!nx02.iad01.newshosting.com!
newshosting.com!69.16.185.16.MISMATCH!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 25 Apr 2010 05:11:30 -0500
From: dspurg7310 <dspurg7310.619cac4@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Build A Repeater
Date: Sun, 25 Apr 2010 06:27:38 +0100
Message-ID: <dspurg7310.619cac4@radiobanter.com>
Organization: RadioBanter.com
References:  <dspurg7310.61727c5@radiobanter.com>
Lines: 16
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-C5jWSdwipQMpslSQI7ildwRUFLGDcLBUbtioMD8/
bAvbfcWvgo2XFTqv3s96DMbSjjVBueChwQCn+Qo!7bRpa8JQd+/
Xr7UPaAPe9tVhbRPIn3Y2Bephonf0RbMyJMQhDpwzsQLO/gXxU49cVcmoHE12wNWR!ZTzVeL9t
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 3
X-Original-Bytes: 1540
Xref: g2news2.google.com rec.radio.amateur.homebrew:3643
```

Wow, thanks everyone! That's a lot of information to go through! lol Being that I am so new to this though, I was hoping maybe someone would have a simple way to make this work and have a diagram and instructions on how to accomplish this task the easiest but most effective way. Keep in mind, I am new, so lots of detail would be great! As I learn more about electronics and circuits, I will keep a lot of this information you have given me as reference and hopefully learn a lot! Thanks again!

-David.

--
dspurg7310

```
From 1318946622233619518
X-Google-Thread: fc2a5,42001f8e405fba12
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 25 Apr 2010 08:32:11 -0500
Date: Sun, 25 Apr 2010 08:31:59 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.24 (Windows/20100228)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Steampunk VFO?
References: <6ad502bb-9b2d-4eb7-a101-a9744562d52a@g23g2000yqn.googlegroups.com>
In-Reply-To: <6ad502bb-9b2d-4eb7-a101-a9744562d52a@g23g2000yqn.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <TMidncMqe5nA2UnWnZ2dnUVZ_vSdnZ2d@giganews.com>
Lines: 45
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-9u5g6771d9witCV+XxQy0yeXHMiA/Uo/+1kpRvoXDb1ogYbmjs/
4dCpcF+0VP3JTRVZijLQLDfKjo+7!
wdHkcJR29iV5Zu8VhHsXqnILZRTmbgtqmh9PfiCtv+NY648E08w6y2nlFoNBlwKMAO1WzQqOL6w=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3347
rec.radio.amateur.boatanchors:3823
```

The Eternal Squire wrote:

> All,
>
> I'm currently considering a design for making a steampunk radio. I
> just
> had an idea for the VFO that I want to run by those who have a far
> better grasp of the abstract mathematics of harmonics than I do.
>
> Suppose I have a DC motor running steady at 1000 RPM. Through a
> X100 set of planetary gears I create a shaft spinning at 20,000 RPM,
> which is pretty much the upper limit for small drills anyway.   On
> the
> shaft is a disk that is an etched circuit board with a star pattern,
> that is,
> 500 conductors etched radiating from the center to the edge of the
> disk.

***

```
    20,000 rpm, so how many revs a second?
20000 rev/minute  x  1/60 minutes/second = 333 rev/second
How many spokes?
333 rev/sec x   500 spokes/rev = 167000 spokes/sec
>
> Now I have a wiper that is laid across the edge of the disk to make or
> break contact with the outside of the star pattern, with 12 Volts DC
> potential on the wiper.   Assuming the shaft was conductive and made
> firm contact with the center of the star pattern, should I see a 10
> Mhz
> square wave, suitable for say a switching mixer?

No, you would see a 167kHz square wave, with plenty of odd harmonics:
500 kHz, 833kHz, 1170kHz etc.
>
> Question:  How bad are the phase noise and harmonics likely to be?
>
The harmonics speak for themselves. Mechanical rotation is hard to keep
constant.

> Thanks in advance,
>
> The Eternal Squire

You'rte most welcome

Brian W



From -1018307383301334827
X-Google-Thread: fc2a5,42001f8e405fba12
X-Google-NewGroupId: yes
X-Google-Thread: fc8b1,42001f8e405fba12
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gidda6537b9fb,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Steampunk VFO?
Date: 25 Apr 2010 11:00:17 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 17
Message-ID: <hr1le1$622$1@panix2.panix.com>
References: <6ad502bb-9b2d-4eb7-a101-a9744562d52a@g23g2000yqn.googlegroups.com>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1272207617 2604 166.84.1.2 (25 Apr 2010 15:00:17 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 25 Apr 2010 15:00:17 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3645
rec.radio.amateur.boatanchors:4180
```

The Eternal Squire <eternalsquire@hotmail.com> wrote:
>Now I have a wiper that is laid across the edge of the disk to make or
>break contact with the outside of the star pattern, with 12 Volts DC
>potential on the wiper.   Assuming the shaft was conductive and made
>firm contact with the center of the star pattern, should I see a 10
>Mhz
>square wave, suitable for say a switching mixer?
>
>Question: How bad are the phase noise and harmonics likely to be?

Really bad, but the harmonics you can filter. Phase noise is going to
be way too high for anything but CW and your frequency stability won't
be anything to write home about. However, the system you describe was
built by Federal Electric in the 1920s, so it's at least practical.
--scott
--
"C'est un Nagra. C'est suisse, et tres, tres precis."

From 5555142301582693029
X-Google-Thread: fc2a5,42001f8e405fba12
X-Google-NewGroupId: yes
X-Google-Thread: fc8b1,42001f8e405fba12
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gidda6537b9fb,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 25 Apr 2010 11:58:36 -0500
From: "Richard Knoppow" <dickburk@ix.netcom.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
References: <6ad502bb-9b2d-4eb7-a101-a9744562d52a@g23g2000yqn.googlegroups.com>
<hr1le1$622$1@panix2.panix.com>
Subject: Re: Steampunk VFO?
Date: Sun, 25 Apr 2010 09:58:28 -0700
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <GoqdnctPLO0g6UnWnZ2dnUVZ_s6dnZ2d@earthlink.com>
Lines: 58
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 66.81.251.240
X-Trace: sv3-
DbD0DMN3WawtJV8vmd2MAFLlOVdclX640gb8pdDqDr1onRS4O4i0oNp2aZhoIvByhHhIk5rCrQ3HLfV!
4DBYkQ+Lgpt6y0EWzCVQwdAaXv8LHkQy8ifLv8bHt+pTbprLqCCzEpg1Bhf+FYvC+vsHDmkRbaKa!
XUZDSmK6NJDVK5k4bFZFtLMaHXzY2mwJWg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40

Xref: g2news2.google.com rec.radio.amateur.homebrew:3646
rec.radio.amateur.boatanchors:4181

"Scott Dorsey" <kludge@panix.com> wrote in message
news:hr1le1$622$1@panix2.panix.com...
> The Eternal Squire <eternalsquire@hotmail.com> wrote:
>>Now I have a wiper that is laid across the edge of the
>>disk to make or
>>break contact with the outside of the star pattern, with
>>12 Volts DC
>>potential on the wiper.   Assuming the shaft was
>>conductive and made
>>firm contact with the center of the star pattern, should I
>>see a 10
>>Mhz
>>square wave, suitable for say a switching mixer?
>>
>>Question: How bad are the phase noise and harmonics
>>likely to be?
>
> Really bad, but the harmonics you can filter. Phase noise
> is going to
> be way too high for anything but CW and your frequency
> stability won't
> be anything to write home about. However, the system you
> describe was
> built by Federal Electric in the 1920s, so it's at least
> practical.
> --scott

I think Federal used the Poulsen arc converter, a steady arc where this thing is more closely related to the rotary arc, also used in early wireless. There were two types of rotary arcs but both operated at much lower interuption rates, typically at around 400 hz, and generated the RF energy by means of tuned tank circuits. Federal Telegraph held Poulsen patents and exploited them in series of wireless telegraph stations mostly on the West coast of the USA. The rotary arc is not to be confused with the Alexanderson alternator, a mechanical generator of low RF energy. The alternator put out fairly pure CW. The Alexanderson patents were controlled by General Electric and were one of the main reasons for the founding of RCA after WW-1, that is, to maintain wireless in the US under US control.

The Poulsen arc was widely used on board ships. The device requires an atmosphere of hydrogen for the arc and has a supply of alcohol to provide the gas by means of disociation due to the arc. That gave the radio operator a supply of drinkable alcohol which made the "sparks" popular.

```
--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@ix.netcom.com




From -1328125586280756242
X-Google-Thread: fc2a5,42001f8e405fba12
X-Google-NewGroupId: yes
X-Google-Thread: fc8b1,42001f8e405fba12
X-Google-NewGroupId: yes
X-Google-Attributes: gid241b302a50,gidda6537b9fb,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!k41g2000yqf.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Steampunk VFO?
Date: Sun, 25 Apr 2010 10:22:14 -0700 (PDT)
Organization: http://groups.google.com
Lines: 39
Message-ID: <e9076b4b-6d67-4994-83df-261b554d2683@k41g2000yqf.googlegroups.com>
References: <6ad502bb-9b2d-4eb7-a101-a9744562d52a@g23g2000yqn.googlegroups.com>
NNTP-Posting-Host: 71.75.73.222
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1272216134 13530 127.0.0.1 (25 Apr 2010 17:22:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 25 Apr 2010 17:22:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k41g2000yqf.googlegroups.com; posting-host=71.75.73.222;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2.3)
     Gecko/20100401 Firefox/3.6.3 (.NET CLR 3.5.30729),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3647
rec.radio.amateur.boatanchors:4182

On Apr 25, 1:28=A0am, The Eternal Squire <eternalsqu...@hotmail.com>
wrote:
> All,
>
> I'm currently considering a design for making a steampunk radio. =A0I
> just
> had an idea for the VFO that I want to run by those who have a far
> better grasp of the abstract mathematics of harmonics than I do.
>
> Suppose I have a DC motor running steady at 1000 RPM. =A0Through a
```

> X100 set of planetary gears I create a shaft spinning at 20,000 RPM,
> which is pretty much the upper limit for small drills anyway. =A0 =A0On
> the
> shaft is a disk that is an etched circuit board with a star pattern,
> that is,
> 500 conductors etched radiating from the center to the edge of the
> disk.
>
> Now I have a wiper that is laid across the edge of the disk to make or
> break contact with the outside of the star pattern, with 12 Volts DC
> potential on the wiper. =A0 Assuming the shaft was conductive and made
> firm contact with the center of the star pattern, should I see a 10
> Mhz
> square wave, suitable for say a switching mixer?
>
> Question: =A0How bad are the phase noise and harmonics likely to be?
>
> Thanks in advance,
>
> The Eternal Squire

Instead of mechanical contacts I would try an optical sensor but this
may not be very Steampunk. I have a friend who built a small steam
engine, for demo purposes he would run it on compressed air at 40K
RPM.

Jimmie

Jimmie

From 2750681539031636593
X-Google-Thread: 241b302a50,3d595892b858e97d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news2.google.com!news3.google.com!feeder.news-service.com!188.40.43.213.MISMATCH!feeder.eternal-september.org!eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL Exciter circuit from 1950's (?) ARRL Handbook
Date: Tue, 19 Jan 2010 10:19:33 -0500
Organization: A noiseless patient Spider
Lines: 48
Message-ID: <hj4ihv$cko$1@news.eternal-september.org>
References: <9I_4n.260$I8.342@news.indigo.ie> <hj2mjo$2ka$1@news.eternal-september.org> <7c2374d9-9cb3-4fe0-820c-fd4cd0d74421@e16g2000yqc.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 8bit
Injection-Date: Tue, 19 Jan 2010 15:19:27 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-

```
host="DEmOrWSXcuF+FwFEO9v78w";
     logging-data="12952"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+vqaBtBl38HdUm1FG6BngKsxT++UkE3II="
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
In-Reply-To: <7c2374d9-9cb3-4fe0-820c-fd4cd0d74421@e16g2000yqc.googlegroups.com>
Cancel-Lock: sha1:Pm/KFFFBOxSt8RPFRMIarigSuM8=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3045

JRCCrabtree@gmail.com wrote:
> On Jan 18, 4:16�pm, Kenneth Scharf <wa2...@bellsouth.net> wrote:
>> Gerry Lawlor wrote:
>>> Hi
>>> I am currently interested in restoring an old well-constructed homebrew
>>> exciter which was built in the 50's from (I believe) an ARRLhandbook design.
>>> It has a 6AG7 (osc) , 6V6 (doubler/tripler), 807 (PA) lineup with clamp tube
>>> protection on the 807. �It was intended to drive an 813 amplifier as far as
>>> I know. �It appears to have been used mainly on 15, 20 and 40m and is
>>> crystal controlled. �It was last used about 30 years ago but is in good
>>> overall condition and the quality of the components used appears to be good.
>>> I would appreciate any data on this design, particularly circuit
>>> information. �A pointer even to the original handbook article would be of
>>> value.
>>> Thanks in advance for any asssistance.
>>> Gerry/EI9FV
>> The rig you are talking about is on page 192 of the 1951 ARRL HB.
>> The tube lineup is 6AG7 osc-doubler, 6V6 multiplier, 807 final, 6Y6G
>> clamp tube. �This chassis was then link coupled to a second chassis with
>> a pair of 813's in push pull.
>>
>> In the 1952 HB there is a similar rig without the 807, the 6V6 drives a
>> single 813 and the 6Y6 is the clamp tube for the 813.
>
> It is possible that the design also appeared in QST.  The rig from the
> 1952 HB may well be:
>     "Building an 813 Transmitter--Modern Style", by  R. Smith, W1FTX,11021 SW
57th Street, Davie, FL  33328-6331
Home: 954-689-4403   Email: wa2mze@bellsouth.net

> QST, July 1951 pp 11-17.
>
> I did not find a QST article for the rig described above from the 1951
> HB.  That does not mean that it does not exist.
>
> 73 John  KC0G
>
In general the ARRL HB staff designed many projects just for inclusion
in the handbook.  QST articles were sometimes reprinted in the handbook
as well.  One example I can think of off the bat was in the '67 handbook
there was a receiver called the HB-67 which was a design made for the
handbook.  This was an 80-10 receiver using crystal controlled
converters feeding an 80 meter receiver.  The design was VERY similar to
that of a the HA350 receiver then being sold by Lafayette Radio.
   On the other hand there was a CW transmitter and amplifier featured
```

in QST that was re-printed in the HB for a few years. That was a two part article about the 'T9er' and 'S9er'. The transmitter ended in a pair of 6146B's and the amplifier used a single 3-500Z to run the legal limit. The amp would also run as a half gallon on SSB.

```
From 8343897673655410914
X-Google-Thread: 241b302a50,1cc567dc31dddffb,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p24g2000yqm.googlegroups.com!not-for-
mail
From: Ray Stone <raystoneradio@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: EIMAC 4CX1500B Power Amplifier 8660 tetrode
Date: Tue, 19 Jan 2010 14:12:49 -0800 (PST)
Organization: http://groups.google.com
Lines: 4
Message-ID: <f3fb98a9-17b9-4683-89fe-c86d821f5c1b@p24g2000yqm.googlegroups.com>
NNTP-Posting-Host: 74.216.103.147
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1263939169 6682 127.0.0.1 (19 Jan 2010 22:12:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 19 Jan 2010 22:12:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p24g2000yqm.googlegroups.com; posting-host=74.216.103.147;
     posting-account=EejTLQoAAAAH7F6qyFvqD5ZpnCtwaIs-
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.1;
     Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
     3.0.30729; Media Center PC 6.0; InfoPath.2; OfficeLiveConnector.1.4;
     OfficeLivePatch.1.3),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3046
```

EIMAC 4CX1500B Power Amplifier 8660 tetrode

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=300388467531

```
From 4743845923073483927
X-Google-Thread: 241b302a50,a92eb5d1e3a003aa,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k35g2000yqb.googlegroups.com!not-for-
mail
From: Ray Stone <raystoneradio@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: EIMAC SK-800B Tube Socket for 4CX1500B 8660 w Chimney
Date: Tue, 19 Jan 2010 14:14:35 -0800 (PST)
```

```
Organization: http://groups.google.com
Lines: 3
Message-ID: <ccaf3a70-d705-4fd6-9118-98cc0801380f@k35g2000yqb.googlegroups.com>
NNTP-Posting-Host: 74.216.103.147
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1263939275 3447 127.0.0.1 (19 Jan 2010 22:14:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 19 Jan 2010 22:14:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k35g2000yqb.googlegroups.com; posting-host=74.216.103.147;
     posting-account=EejTLQoAAAAH7F6qyFvqD5ZpnCtwaIs-
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.1;
     Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
     3.0.30729; Media Center PC 6.0; InfoPath.2; OfficeLiveConnector.1.4;
     OfficeLivePatch.1.3),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3047

EIMAC SK-800B Tube Socket for 4CX1500B 8660 w Chimney

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=300388469353


From -7059119313840356882
X-Google-Thread: 241b302a50,7d2c40e22a837a37,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!postnews.google.com!21g2000yqj.googlegroups.com!not-for-
mail
From: rsaryu raparthisaryu <raparthisaryu@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: www.world2015.org
Date: Tue, 19 Jan 2010 22:01:05 -0800 (PST)
Organization: http://groups.google.com
Lines: 46
Message-ID: <9d11dfed-8f04-43c8-89d6-00a26f27a201@21g2000yqj.googlegroups.com>
NNTP-Posting-Host: 121.245.10.80
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1263967265 31826 127.0.0.1 (20 Jan 2010 06:01:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 20 Jan 2010 06:01:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 21g2000yqj.googlegroups.com; posting-host=121.245.10.80;
     posting-account=zLsmmgoAAACAavkBYPv1_YNrMt4uDuZ2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2)
     Gecko/20100115 Firefox/3.6,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3048
```

To.
worldwide media&people
(please co-operate us)
1 seed
more roots
one bud
one tree
more branches
crores leaves
many froots ....
one seed...(again repeat..this is nonstop..)
same...
present world population 690 crores.
we will go to back
400 crores people
100 cropes peoples
1 crore people
1 lakh people
1 thousand people
100 people
10 people
1 family.this is true
where is the caste?
where is the religion?
all humanbeings are one
whole world is one
god is one
we are all one family.
let us establish free world by www.world2015.org
Human Race Creation,
Primeval Persons,
Civilizations, Aristocracy &
Democracy
What Next?...
WORLD2015.ORG
World2015.org :
=95 No money, No Power, No Politics, No Castes, No Religions,
Human Beings are one. Whole world is one. God is one.
=95 Free world. Everything is free etc..,
=95 New Society. Equivalent Society.
=95 Let us establish free world. Please co-operate.
FREE REGISTRATION
FREE MEMBERSHIP
IN
www.world2015.org
www.world2015.org welfare trust

From -7423678508860564950
X-Google-Thread: 241b302a50,3d595892b858e97d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!feeder.news.heanet.ie!news.indigo.ie!not-for-mail
From: "Gerry Lawlor" <ei9fv@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <9I_4n.260$I8.342@news.indigo.ie>
Subject: Re: ARRL Exciter circuit from 1950's (?) ARRL Handbook - Success
Lines: 41
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <wUA5n.292$I8.324@news.indigo.ie>
Date: Wed, 20 Jan 2010 10:27:34 -0000
NNTP-Posting-Host: 86.45.104.6
X-Complaints-To: abuse@eircom.net
X-Trace: news.indigo.ie 1263983260 86.45.104.6 (Wed, 20 Jan 2010 10:27:40 GMT)
NNTP-Posting-Date: Wed, 20 Jan 2010 10:27:40 GMT
Organization: Eircom.Net http://www.eircom.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:3049

Gents

many thanks for the helpful messages. I have now received a copy of the
circuit/article from the 1950 ARRL handbook courtesy of a W6 station and
that has filled the gap for me.
Its a real pleasure to meet with such helpful assistance from the ham radio
community.

73

Gerry/EI9FV

"Gerry Lawlor" <ei9fv@arrl.net> wrote in message
news:9I_4n.260$I8.342@news.indigo.ie...
> Hi
>
> I am currently interested in restoring an old well-constructed homebrew
> exciter which was built in the 50's from (I believe) an ARRLhandbook
> design.
> It has a 6AG7 (osc) , 6V6 (doubler/tripler), 807 (PA) lineup with clamp
> tube
> protection on the 807. It was intended to drive an 813 amplifier as far
> as
> I know. It appears to have been used mainly on 15, 20 and 40m and is
> crystal controlled. It was last used about 30 years ago but is in good
> overall condition and the quality of the components used appears to be
> good.
>
> I would appreciate any data on this design, particularly circuit
> information. A pointer even to the original handbook article would be of
> value.

>
> Thanks in advance for any asssistance.
>
> Gerry/EI9FV
>
>
>
>

```
From 2317654495509881681
X-Google-Thread: 241b302a50,4ae2ab65f21d3579,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o28g2000yqh.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: jury rigged vhf receiver
Date: Sat, 23 Jan 2010 14:52:14 -0800 (PST)
Organization: http://groups.google.com
Lines: 9
Message-ID: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
NNTP-Posting-Host: 165.254.211.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1264287134 15418 127.0.0.1 (23 Jan 2010 22:52:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 23 Jan 2010 22:52:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o28g2000yqh.googlegroups.com; posting-host=165.254.211.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3050
```

I was wanting to listen to VHF/UHF SSB. All of my present UHF/VHF radios are FM. I was thinking of rigging up a simple downconverter using a mini circuit mixer and my HP signal generator as the local oscilator that I can connect in front of my HF rig. I have an antenna mounted pre- amp that I think should suffice for my front end. Any foreseeable problems short of keying my transmitter while it is connected.

Jimmie

```
From 4647802543861303208
X-Google-Thread: 241b302a50,4ae2ab65f21d3579
```

```
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
188.40.43.213.MISMATCH!feeder.eternal-september.org!eternal-september.org!.POSTED!
not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: jury rigged vhf receiver
Date: Sat, 23 Jan 2010 18:43:55 -0500
Organization: A noiseless patient Spider
Lines: 22
Message-ID: <hjg1jt$a16$1@news.eternal-september.org>
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sat, 23 Jan 2010 23:43:57 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-
host="DEmOrWSXcuF+FwFEO9v78w";
     logging-data="10278"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18JQgdXLBHSXF9UOXjlj0EwecBFqsVDveQ="
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
In-Reply-To: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
Cancel-Lock: sha1:d5zVwnm8d6ivnAGoIoq+gt7By/Y=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3051
```

JIMMIE wrote:

> I was wanting to listen to VHF/UHF SSB. All of my present UHF/VHF radios are FM. I was thinking of rigging up a simple downconverter using a mini circuit mixer and my HP signal generator as the local oscilator that I can connect in front of my HF rig. I have an antenna mounted pre- amp that I think should suffice for my front end. Any foreseeable problems short of keying my transmitter while it is connected.
>
> Jimmie

For best performance these mixers require a constant impedance at all three ports (usually 50 ohms). The preamp will provide this for the RF input and the output of your HP signal generator should have a 50 ohm selectable output. You may need to add an attenuator between the generator and the mixer if the HP does not provide a 50 ohm termination using a variable output. You will need to set the oscillator injection level to the mixers required 7dbm drive level for best conversion "gain". The output should go through a bandpass filter covering the IF frequency you are down converting to and provide a 50 ohm impedance. A duplexer network here is a good idea (provides a 50 ohm termination at the IF frequency and a low impedance (short) to ground to out of IF signals).

```
From -7992674081726065026
X-Google-Thread: 241b302a50,4ae2ab65f21d3579
```

```
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!r19g2000yqb.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: jury rigged vhf receiver
Date: Sat, 23 Jan 2010 16:20:40 -0800 (PST)
Organization: http://groups.google.com
Lines: 27
Message-ID: <e540d10d-9383-4d6a-9cbc-991e2f3e063b@r19g2000yqb.googlegroups.com>
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
     <hjg1jt$a16$1@news.eternal-september.org>
NNTP-Posting-Host: 165.254.211.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1264292440 24321 127.0.0.1 (24 Jan 2010 00:20:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 24 Jan 2010 00:20:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r19g2000yqb.googlegroups.com; posting-host=165.254.211.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3052

On Jan 23, 6:43=A0pm, Kenneth Scharf <wa2...@bellsouth.net> wrote:
> JIMMIE wrote:
> > I was wanting to listen to VHF/UHF SSB. All of my present UHF/VHF
> > radios are FM. I was thinking of rigging up a simple downconverter
> > using a mini circuit mixer and my HP signal generator as the local
> > oscilator that I can connect in front of my HF rig. I have an antenna
> > mounted pre- amp that I think should suffice for my front end. Any
> > foreseeable problems short of keying my transmitter while it is
> > connected.
>
> > Jimmie
>
> For best performance these mixers require a constant impedance at all
> three ports (usually 50 ohms). =A0The preamp will provide this for the RF
> input and the output of your HP signal generator should have a 50 ohm
> selectable output. =A0You may need to add an attenuator between the
> generator and the mixer if the HP does not provide a 50 ohm termination
> using a variable output. =A0You will need to set the oscillator injection
> level to the mixers required 7dbm drive level for best conversion
> "gain". =A0The output should go through a bandpass filter covering the IF
> =A0 frequency you are down converting to and provide a 50 ohm impedance.
> A duplexer network here is a good idea (provides a 50 ohm termination at
> the IF frequency and a low impedance (short) to ground to out of IF
> signals).
```

Any reccomendation on the best mixer to use?
Jimmie

```
From -4595177530688287185
X-Google-Thread: 241b302a50,4ae2ab65f21d3579
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
newshosting.com!216.196.98.148.MISMATCH!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 24 Jan 2010 07:32:56 -0600
Date: Sun, 24 Jan 2010 13:32:52 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: jury rigged vhf receiver
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
     <hjg1jt$a16$1@news.eternal-september.org>
<e540d10d-9383-4d6a-9cbc-991e2f3e063b@r19g2000yqb.googlegroups.com>
In-Reply-To: <e540d10d-9383-4d6a-9cbc-991e2f3e063b@r19g2000yqb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <08Cdnd-6gImV0cHWnZ2dnUVZ_hWdnZ2d@bright.net>
Lines: 41
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace:
sv3-3IEmhycYX3jAgP1DzPkm+Dh63f3yYjON+fXA99L7ako0tWc7aqpPu9dFWuQcq0hdQ4u8EsW582SxdA
K!9+Og2Ii0GuPYrWTxdJuS10/qIrdb8AsdO0+qpUjAMIQN+hnGBgLwer7Kewk46exqDG5ruXvrnA/k!
ojzwpTaPFA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3053
```

JIMMIE wrote:
> On Jan 23, 6:43 pm, Kenneth Scharf <wa2...@bellsouth.net> wrote:
>> JIMMIE wrote:
>>> I was wanting to listen to VHF/UHF SSB. All of my present UHF/VHF
>>> radios are FM. I was thinking of rigging up a simple downconverter
>>> using a mini circuit mixer and my HP signal generator as the local
>>> oscilator that I can connect in front of my HF rig. I have an antenna
>>> mounted pre- amp that I think should suffice for my front end. Any
>>> foreseeable problems short of keying my transmitter while it is
>>> connected.
>>> Jimmie

>> For best performance these mixers require a constant impedance at all
>> three ports (usually 50 ohms). The preamp will provide this for the RF
>> input and the output of your HP signal generator should have a 50 ohm
>> selectable output. You may need to add an attenuator between the
>> generator and the mixer if the HP does not provide a 50 ohm termination
>> using a variable output. You will need to set the oscillator injection
>> level to the mixers required 7dbm drive level for best conversion
>> "gain". The output should go through a bandpass filter covering the IF
>>   frequency you are down converting to and provide a 50 ohm impedance.
>> A duplexer network here is a good idea (provides a 50 ohm termination at
>> the IF frequency and a low impedance (short) to ground to out of IF
>> signals).
>
> Any reccomendation on the best mixer to use?
> Jimmie

Here's one good to about 600 MHz. Been used a gazillion times in just
about all VHF/UHF transverters at one time or another. If casual
listening is all you need, hook it up just like you said...VHF/UHF
antenna to the RF port, HP signal generator to LO port (set to +7 dBm
output for this mixer and frequency appropriate for your IF frequency
such as 116 MHz for 144 MHz to be 28 MHz out of the mixer) and connect
the mixer IF pin to your HF radio antenna port. Probably a good idea to
use capacitor coupling at each mixer port, something like 1000pF should
work.

http://www.minicircuits.com/pdfs/TUF-1+.pdf

Scott
N0EDV

From 1976818496220639894
X-Google-Thread: 241b302a50,4ae2ab65f21d3579
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 24 Jan 2010 09:03:28 -0600
Date: Sun, 24 Jan 2010 09:03:37 -0600
From: sorry-spammers <""w9wi\"@(sorry-spammers)">
Organization: Ham Radio W9WI
User-Agent: Thunderbird 2.0.0.23 (X11/20090817)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: jury rigged vhf receiver
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
In-Reply-To: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <bradnXyJGKrd_MHWnZ2dnUVZ_j6dnZ2d@earthlink.com>

Lines: 21
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 4.152.156.15
X-Trace: sv3-
M3jLsv84ZZ7vBQvjO5oklS+AmY9e2Msu4vuuxOTUM1XghIo2O9Jx6fl1zRN7y96Nf0OlONW74AiGLWp!
5x0IEfJPOcYAgQ+X6DUbEdYmIzhNPx0A0M8rfoUEgaxS6NTzB3ReceZxMnQGzXduIO4OYDmXfVlc!
nUR6fGMGxXow8wLw9vvg1kQyYy8=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3054

JIMMIE wrote:
> I was wanting to listen to VHF/UHF SSB. All of my present UHF/VHF
> radios are FM. I was thinking of rigging up a simple downconverter
> using a mini circuit mixer and my HP signal generator as the local
> oscilator that I can connect in front of my HF rig. I have an antenna
> mounted pre- amp that I think should suffice for my front end. Any
> foreseeable problems short of keying my transmitter while it is
> connected.

Just as an experiment, I once used the mixer & LO in one of my FM rigs. Just tapped the output of the mixer just before the IF filter, ran it through a DC-blocking capacitor out to the antenna input of a general-coverage HF receiver. Tuned the HF rig to 10.7MHz - sure enough, there were the 2m SSB (and CW) signals. Worked pretty well.

It was pretty cumbersome to tune though. Luckily, almost everyone around here is within 5KHz of 144.200...

Didn't take long to get the urge to transmit, at which point I wimped out & bought a multimode rig...

--

Doug Smith W9WI
Pleasant View, TN EM66

From -6283013699662208307
X-Google-Thread: 241b302a50,4ae2ab65f21d3579
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 24 Jan 2010 09:26:31 -0600
Date: Sun, 24 Jan 2010 15:26:31 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: jury rigged vhf receiver
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
<bradnXyJGKrd_MHWnZ2dnUVZ_j6dnZ2d@earthlink.com>
In-Reply-To: <bradnXyJGKrd_MHWnZ2dnUVZ_j6dnZ2d@earthlink.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <DfSdncNh0c06-8HWnZ2dnUVZ_gli4p2d@bright.net>
Lines: 12
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-0w0/
PZqVig8f9oIPlnlCHl+y8GnBpAAGQHt4N9cY2HHR35sbX2gshtvmWkdZ4F4QDHLfOa8u06FwY0g!
TpxRpqM2OQ0AibaS3e8l/RyWDvckiiwAMuhlbJzEDRnz0hGiC0pw43o8+aY/W5EtR1MAda/HlQTw!
Rfh2IsCDcQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3055

sorry-spammers wrote:
   Luckily, almost everyone
> around here is within 5KHz of 144.200...
>

>

"Lucky" depends on how many locals there are ;)  If you have 10 or 20
local weak signal VHFers, it could get a bit messy ;)

Scott, N0EDV
EN45fa


From -5834612562658015793
X-Google-Thread: 241b302a50,4ae2ab65f21d3579
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news4.google.com!proxad.net!
feeder1-2.proxad.net!news.mixmin.net!feeder.eternal-september.org!eternal-
september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: jury rigged vhf receiver
Date: Sun, 24 Jan 2010 10:51:02 -0500
Organization: A noiseless patient Spider
Lines: 44
Message-ID: <hjhq95$m3q$1@news.eternal-september.org>
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
     <hjg1jt$a16$1@news.eternal-september.org>
<e540d10d-9383-4d6a-9cbc-991e2f3e063b@r19g2000yqb.googlegroups.com>
```

```
<08Cdnd-6gImV0cHWnZ2dnUVZ_hWdnZ2d@bright.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sun, 24 Jan 2010 15:51:01 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-
host="DEmOrWSXcuF+FwFEO9v78w";
     logging-data="22650"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1+pLf55vxXebeYiYeyrFTmgWIXGxMgZ2zk="
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
In-Reply-To: <08Cdnd-6gImV0cHWnZ2dnUVZ_hWdnZ2d@bright.net>
Cancel-Lock: sha1:yPL0Rzi/tESI0orI1pWCdWFFzSg=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3056

Scott wrote:
> JIMMIE wrote:
>> On Jan 23, 6:43 pm, Kenneth Scharf <wa2...@bellsouth.net> wrote:
>>> JIMMIE wrote:
>>>> I was wanting to listen to VHF/UHF SSB. All of my present UHF/VHF
>>>> radios are FM. I was thinking of rigging up a simple downconverter
>>>> using a mini circuit mixer and my HP signal generator as the local
>>>> oscilator that I can connect in front of my HF rig. I have an antenna
>>>> mounted pre- amp that I think should suffice for my front end. Any
>>>> foreseeable problems short of keying my transmitter while it is
>>>> connected.
>>>> Jimmie
>>> For best performance these mixers require a constant impedance at all
>>> three ports (usually 50 ohms).  The preamp will provide this for the RF
>>> input and the output of your HP signal generator should have a 50 ohm
>>> selectable output.  You may need to add an attenuator between the
>>> generator and the mixer if the HP does not provide a 50 ohm termination
>>> using a variable output.  You will need to set the oscillator injection
>>> level to the mixers required 7dbm drive level for best conversion
>>> "gain".  The output should go through a bandpass filter covering the IF
>>>   frequency you are down converting to and provide a 50 ohm impedance.
>>> A duplexer network here is a good idea (provides a 50 ohm termination at
>>> the IF frequency and a low impedance (short) to ground to out of IF
>>> signals).
>>
>> Any reccomendation on the best mixer to use?
>> Jimmie
>
> Here's one good to about 600 MHz.  Been used a gazillion times in just
> about all VHF/UHF transverters at one time or another.  If casual
> listening is all you need, hook it up just like you said...VHF/UHF
> antenna to the RF port, HP signal generator to LO port (set to +7 dBm
> output for this mixer and frequency appropriate for your IF frequency
> such as 116 MHz for 144 MHz to be 28 MHz out of the mixer) and connect
> the mixer IF pin to your HF radio antenna port.  Probably a good idea to
> use capacitor coupling at each mixer port, something like 1000pF should
> work.
>
> http://www.minicircuits.com/pdfs/TUF-1+.pdf
```

```
>
> Scott
> N0EDV
For what it's worth, that's the same mixer used in the Elecraft K2
receiver section.


From -1143505627454186981
X-Google-Thread: 241b302a50,4ae2ab65f21d3579
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!b10g2000yqa.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: jury rigged vhf receiver
Date: Sun, 24 Jan 2010 12:02:54 -0800 (PST)
Organization: http://groups.google.com
Lines: 64
Message-ID: <fbc82edf-8f9e-4409-810b-57f27f936af2@b10g2000yqa.googlegroups.com>
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
     <hjg1jt$a16$1@news.eternal-september.org>
<e540d10d-9383-4d6a-9cbc-991e2f3e063b@r19g2000yqb.googlegroups.com>
     <08Cdnd-6gImV0cHWnZ2dnUVZ_hWdnZ2d@bright.net> <hjhq95$m3q$1@news.eternal-
september.org>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1264363374 18996 127.0.0.1 (24 Jan 2010 20:02:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 24 Jan 2010 20:02:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b10g2000yqa.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3057

On Jan 24, 10:51=A0am, Kenneth Scharf <wa2...@bellsouth.net> wrote:
> Scott wrote:
> > JIMMIE wrote:
> >> On Jan 23, 6:43 pm, Kenneth Scharf <wa2...@bellsouth.net> wrote:
> >>> JIMMIE wrote:
> >>>> I was wanting to listen to VHF/UHF SSB. All of my present UHF/VHF
> >>>> radios are FM. I was thinking of rigging up a simple downconverter
> >>>> using a mini circuit mixer and my HP signal generator as the local
> >>>> oscilator that I can connect in front of my HF rig. I have an antenn=
a
> >>>> mounted pre- amp that I think should suffice for my front end. Any
> >>>> foreseeable problems short of keying my transmitter while it is
```

> >>>> connected.
> >>>> Jimmie
> >>> For best performance these mixers require a constant impedance at all
> >>> three ports (usually 50 ohms). =A0The preamp will provide this for th=
e RF
> >>> input and the output of your HP signal generator should have a 50 ohm
> >>> selectable output. =A0You may need to add an attenuator between the
> >>> generator and the mixer if the HP does not provide a 50 ohm terminati=
on
> >>> using a variable output. =A0You will need to set the oscillator injec=
tion
> >>> level to the mixers required 7dbm drive level for best conversion
> >>> "gain". =A0The output should go through a bandpass filter covering th=
e IF
> >>> =A0 frequency you are down converting to and provide a 50 ohm impedan=
ce.
> >>> A duplexer network here is a good idea (provides a 50 ohm termination=
 at
> >>> the IF frequency and a low impedance (short) to ground to out of IF
> >>> signals).
>
> >> Any reccomendation on the best mixer to use?
> >> Jimmie
>
> > Here's one good to about 600 MHz. =A0Been used a gazillion times in jus=
t
> > about all VHF/UHF transverters at one time or another. =A0If casual
> > listening is all you need, hook it up just like you said...VHF/UHF
> > antenna to the RF port, HP signal generator to LO port (set to +7 dBm
> > output for this mixer and frequency appropriate for your IF frequency
> > such as 116 MHz for 144 MHz to be 28 MHz out of the mixer) and connect
> > the mixer IF pin to your HF radio antenna port. =A0Probably a good idea=
 to
> > use capacitor coupling at each mixer port, something like 1000pF should
> > work.
>
> >http://www.minicircuits.com/pdfs/TUF-1+.pdf
>
> > Scott
> > N0EDV
>
> For what it's worth, that's the same mixer used in the Elecraft K2
> receiver section.- Hide quoted text -
>
> - Show quoted text -

Thanks all , I found some little boxes in my scrap pile withe 3 SMA
connectors on each one. Plan is to get a couple or 3 of the mixers and
mount them in the boxes. Having a mixer in a box may be fun to play
with.

Jimmie

```
From 6669260677148075407
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!r19g2000yqb.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: jury rigged vhf receiver
Date: Sun, 24 Jan 2010 12:17:35 -0800 (PST)
Organization: http://groups.google.com
Lines: 35
Message-ID: <23edecf5-3f0a-49b8-a22f-3968bc98a78f@r19g2000yqb.googlegroups.com>
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
     <bradnXyJGKrd_MHWnZ2dnUVZ_j6dnZ2d@earthlink.com>
NNTP-Posting-Host: 165.254.211.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1264364255 3589 127.0.0.1 (24 Jan 2010 20:17:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 24 Jan 2010 20:17:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r19g2000yqb.googlegroups.com; posting-host=165.254.211.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3058

On Jan 24, 10:03=A0am, sorry-spammers <""w9wi\"@(sorry-spammers)">
wrote:
> JIMMIE wrote:
> > I was wanting to listen to VHF/UHF SSB. All of my present UHF/VHF
> > radios are FM. I was thinking of rigging up a simple downconverter
> > using a mini circuit mixer and my HP signal generator as the local
> > oscilator that I can connect in front of my HF rig. I have an antenna
> > mounted pre- amp that I think should suffice for my front end. Any
> > foreseeable problems short of keying my transmitter while it is
> > connected.
>
> Just as an experiment, I once used the mixer & LO in one of my FM rigs. =
=A0Just tapped the output of the mixer just before the IF filter, ran it th=
rough
> a DC-blocking capacitor out to the antenna input of a general-coverage HF=
 receiver. =A0Tuned the HF rig to 10.7MHz - sure enough, there were the 2m =
SSB
> (and CW) signals. =A0Worked pretty well.
>
> It was pretty cumbersome to tune though. =A0Luckily, almost everyone arou=
nd here is within 5KHz of 144.200...
>
> Didn't take long to get the urge to transmit, at which point I wimped out=
 & bought a multimode rig...
```

>
> --
>
> Doug Smith W9WI
> Pleasant View, TN =A0EM66

Thats a thought, I might do that with an old mobile unit I have in the
junk box. I think it will rx but the tx is dead. See if I can pick the
signal off right after the first mixer.

Jimmiej

From -3513952519885289384
X-Google-Thread: 241b302a50,4ae2ab65f21d3579
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 24 Jan 2010 15:32:41 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: jury rigged vhf receiver
Newsgroups: rec.radio.amateur.homebrew
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
User-Agent: Pan/0.133 (House of Butterflies)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <B-GdnWC6G5HkIcHWnZ2dnUVZ_gZi4p2d@web-ster.com>
Date: Sun, 24 Jan 2010 15:32:41 -0600
Lines: 20
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-aJVnUfIR+QzegmOWU9R7srgHB+Q83N5Lg0vL/
f4gNxeknbS4bJeifh03TEJAdgn8uCWelAnP3vpoZYD!
U8qRK5HPg5bdPmXSHzPChIHBWiHQoJgxtwXTryPm6v7bwDNoUrXyqBr0DeGhPynfLqJdjj+vjXe0!
tEmacE9bYXXiLII=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3059

On Sat, 23 Jan 2010 14:52:14 -0800, JIMMIE wrote:

> I was wanting to listen to VHF/UHF SSB. All of my present UHF/VHF radios
> are FM. I was thinking of rigging up a simple downconverter using a mini
> circuit mixer and my HP signal generator as the local oscilator that I
> can connect in front of my HF rig. I have an antenna mounted pre- amp
> that I think should suffice for my front end. Any foreseeable problems
> short of keying my transmitter while it is connected.
>

> Jimmie

Performance won't be optimal, and you'll get some LO leakage.

You may want to consider trapping the LO back toward the antenna, or
using a preamp just to block the radiation.

Or just lash the dang thing together and see how it works.

--
www.wescottdesign.com

From -2501074465599932295
X-Google-Thread: 241b302a50,4ae2ab65f21d3579
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 24 Jan 2010 17:21:52 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: jury rigged vhf receiver
Newsgroups: rec.radio.amateur.homebrew
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
User-Agent: Pan/0.133 (House of Butterflies)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <PJWdnS07ku2NS8HWnZ2dnUVZ_rli4p2d@web-ster.com>
Date: Sun, 24 Jan 2010 17:21:52 -0600
Lines: 15
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-YklDuZvBeYQ3dxY9AAABmBRCSNhHs0ay1XHwE6vkWnlf2q3/z/
Jjm1oGxJuXE84o1HkhmYpFt928G1o!J0SLPQ9xTbb+jH/wHVNUGp+QWgLfWEvhKbr6M/
KaE5vc64pZPgJOSxvK2n0DmR94Y6FcNKOkDscG!hi310Y8bRevqgc0=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3060

On Sat, 23 Jan 2010 14:52:14 -0800, JIMMIE wrote:

> I was wanting to listen to VHF/UHF SSB. All of my present UHF/VHF radios
> are FM. I was thinking of rigging up a simple downconverter using a mini
> circuit mixer and my HP signal generator as the local oscilator that I
> can connect in front of my HF rig. I have an antenna mounted pre- amp
> that I think should suffice for my front end. Any foreseeable problems
> short of keying my transmitter while it is connected.
>
> Jimmie

```
Do let us know what you tried, and how it worked.

--
www.wescottdesign.com


From 1021013281960005592
X-Google-Thread: 241b302a50,4ae2ab65f21d3579
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
b9g2000yqd.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: jury rigged vhf receiver
Date: Sun, 24 Jan 2010 16:42:21 -0800 (PST)
Organization: http://groups.google.com
Lines: 20
Message-ID: <c861c316-d478-4990-8148-5b6e3141e33d@b9g2000yqd.googlegroups.com>
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
     <PJWdnS07ku2NS8HWnZ2dnUVZ_rli4p2d@web-ster.com>
NNTP-Posting-Host: 165.254.211.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1264380141 31337 127.0.0.1 (25 Jan 2010 00:42:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 25 Jan 2010 00:42:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b9g2000yqd.googlegroups.com; posting-host=165.254.211.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3061

On Jan 24, 6:21=A0pm, Tim Wescott <t...@seemywebsite.com> wrote:
> On Sat, 23 Jan 2010 14:52:14 -0800, JIMMIE wrote:
> > I was wanting to listen to VHF/UHF SSB. All of my present UHF/VHF radio=
s
> > are FM. I was thinking of rigging up a simple downconverter using a min=
i
> > circuit mixer and my HP signal generator as the local oscilator that I
> > can connect in front of my HF rig. I have an antenna mounted pre- amp
> > that I think should suffice for my front end. Any foreseeable problems
> > short of keying my transmitter while it is connected.
>
> > Jimmie
>
> Do let us know what you tried, and how it worked.
>
```

> --www.wescottdesign.com

OK where can you get a TUF-1

Jimmie

From 8842342480238105874
X-Google-Thread: 241b302a50,4ae2ab65f21d3579
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 24 Jan 2010 19:47:27 -0600
Date: Mon, 25 Jan 2010 01:47:26 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: jury rigged vhf receiver
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
     <PJWdnS07ku2NS8HWnZ2dnUVZ_rli4p2d@web-ster.com> <c861c316-
d478-4990-8148-5b6e3141e33d@b9g2000yqd.googlegroups.com>
In-Reply-To: <c861c316-d478-4990-8148-5b6e3141e33d@b9g2000yqd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <MYednRQn28KyZcHWnZ2dnUVZ_qmdnZ2d@bright.net>
Lines: 28
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-TyzNp/
KJ5eCPtX5v+KJYh7ocRm83pooVxXCBjmb6AbFnWg6M9Jpyw0DvqPfEfWNU91ZTTGna4FEzVV+!
w3UDYcPFCFexWJqBOkbvP/WrbZsrLtkjuAtTbZQoJCRBldZcma5RwlR7AvbC8S62FKWxP1VdaknE!
5nfeFjReTg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3062

JIMMIE wrote:
> On Jan 24, 6:21 pm, Tim Wescott <t...@seemywebsite.com> wrote:
>> On Sat, 23 Jan 2010 14:52:14 -0800, JIMMIE wrote:
>>> I was wanting to listen to VHF/UHF SSB. All of my present UHF/VHF radios
>>> are FM. I was thinking of rigging up a simple downconverter using a mini
>>> circuit mixer and my HP signal generator as the local oscilator that I
>>> can connect in front of my HF rig. I have an antenna mounted pre- amp
>>> that I think should suffice for my front end. Any foreseeable problems
>>> short of keying my transmitter while it is connected.
>>> Jimmie
>> Do let us know what you tried, and how it worked.

```
>>
>> --www.wescottdesign.com
>
> OK where can you get a TUF-1
>
> Jimmie

Direct from Mini Circuits
http://www.minicircuits.com/cgi-bin/modelsearch?model=TUF-1%2B&search_type=model
or Downeast Microwave in the "components" section
http://www.downeastmicrowave.com/cat-frame.htm

Minicircuits is $7.50 each, Downeast is $18 each.  I assume both will
have a shipping charge.

Scott
N0EDV



From -1584539273255562821
X-Google-Thread: 241b302a50,4ae2ab65f21d3579
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!m26g2000yqb.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: jury rigged vhf receiver
Date: Sun, 24 Jan 2010 18:14:37 -0800 (PST)
Organization: http://groups.google.com
Lines: 40
Message-ID: <f3113b08-287e-4fd5-933e-d438a54012c9@m26g2000yqb.googlegroups.com>
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
     <PJWdnS07ku2NS8HWnZ2dnUVZ_rli4p2d@web-ster.com> <c861c316-
d478-4990-8148-5b6e3141e33d@b9g2000yqd.googlegroups.com>
     <MYednRQn28KyZcHWnZ2dnUVZ_qmdnZ2d@bright.net>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1264385677 10866 127.0.0.1 (25 Jan 2010 02:14:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 25 Jan 2010 02:14:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m26g2000yqb.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3063

On Jan 24, 8:47=A0pm, Scott <acepilotREM...@bloomer.net> wrote:
```

```
> JIMMIE wrote:
> > On Jan 24, 6:21 pm, Tim Wescott <t...@seemywebsite.com> wrote:
> >> On Sat, 23 Jan 2010 14:52:14 -0800, JIMMIE wrote:
> >>> I was wanting to listen to VHF/UHF SSB. All of my present UHF/VHF rad=
ios
> >>> are FM. I was thinking of rigging up a simple downconverter using a m=
ini
> >>> circuit mixer and my HP signal generator as the local oscilator that =
I
> >>> can connect in front of my HF rig. I have an antenna mounted pre- amp
> >>> that I think should suffice for my front end. Any foreseeable problem=
s
> >>> short of keying my transmitter while it is connected.
> >>> Jimmie
> >> Do let us know what you tried, and how it worked.
>
> >> --www.wescottdesign.com
>
> > OK where can you get a TUF-1
>
> > Jimmie
>
> Direct from Mini Circuitshttp://www.minicircuits.com/cgi-bin/modelsearch?=
model=3DTUF-1%2B&search...
> or Downeast Microwave in the "components" sectionhttp://www.downeastmicro=
wave.com/cat-frame.htm
>
> Minicircuits is $7.50 each, Downeast is $18 each. =A0I assume both will
> have a shipping charge.
>
> Scott
> N0EDV- Hide quoted text -
>
> - Show quoted text -

Thanks I was under the impression the minicircuits has a minimum
order.

Jimmie



From 6827180464095609015
X-Google-Thread: 241b302a50,4ae2ab65f21d3579
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 24 Jan 2010 21:52:24 -0600
Date: Mon, 25 Jan 2010 03:52:24 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
```

```
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: jury rigged vhf receiver
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
     <PJWdnS07ku2NS8HWnZ2dnUVZ_rli4p2d@web-ster.com> <c861c316-
d478-4990-8148-5b6e3141e33d@b9g2000yqd.googlegroups.com>
     <MYednRQn28KyZcHWnZ2dnUVZ_qmdnZ2d@bright.net> <f3113b08-287e-4fd5-933e-
d438a54012c9@m26g2000yqb.googlegroups.com>
In-Reply-To: <f3113b08-287e-4fd5-933e-d438a54012c9@m26g2000yqb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <hPydncTp1snliMDWnZ2dnUVZ_tZi4p2d@bright.net>
Lines: 11
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-czKhQnUpuCnrt9kZ1hgZvhGANfsQJMEzmU2pd7PGVyoSBraPM0s/
dK8GEdMDzXn5dbp3dBHLOimy1NA!szPW9whmgLOVmBILQ7QXPDa3kx6KD5kizEmd7/dfUE7UtIn5J/
T14pC19ecxC2UnWG/q7hLO2H3B!BbGQqWqRJw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3064

JIMMIE wrote:

>
> Thanks I was under the impression the minicircuits has a minimum
> order.
>
> Jimmie

Not that I'm aware of :)  I've ordered small quantities from them in the
past....



From 5717767162552030636
X-Google-Thread: 241b302a50,4ae2ab65f21d3579
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 24 Jan 2010 22:28:51 -0600
Date: Sun, 24 Jan 2010 22:29:01 -0600
From: sorry-spammers <""w9wi\"@(sorry-spammers)">
Organization: Ham Radio W9WI
User-Agent: Thunderbird 2.0.0.23 (X11/20090817)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: jury rigged vhf receiver
```

```
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
<bradnXyJGKrd_MHWnZ2dnUVZ_j6dnZ2d@earthlink.com>
<DfSdncNh0c06-8HWnZ2dnUVZ_gli4p2d@bright.net>
In-Reply-To: <DfSdncNh0c06-8HWnZ2dnUVZ_gli4p2d@bright.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <ysSdnRtGuNmeg8DWnZ2dnUVZ_q6dnZ2d@earthlink.com>
Lines: 19
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 4.153.65.3
X-Trace: sv3-6Xqj9fW3B7q+P+aSSxLQiZ7Jbxak7msXSgy1qLCFp0M/
TTnjVJ8OU75WRRiZ5KCoyELYOjyspA9lk6G!
Jk74FjkpaHHTnsZ08fiTTSuHHhSCubvD41XuIXzicg6bD7hoy6fnNJLIqA/SCxJg9OvC/w79nJVi!
WU7m+Rm0AXJjI9d2ZV8/xX/w
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3065

Scott wrote:
> sorry-spammers wrote:
>   Luckily, almost everyone
>> around here is within 5KHz of 144.200...
>>
>
>>
>
> "Lucky" depends on how many locals there are ;)  If you have 10 or 20
> local weak signal VHFers, it could get a bit messy ;)

Around here, it was in fact lucky.....

(managed an entire 15 QSOs in this weekend's contest, as a rover operation.
(admittedly only two grids...))

--

Doug Smith W9WI
Pleasant View, TN  EM66


From 8033333739201430224
X-Google-Thread: 241b302a50,4ae2ab65f21d3579
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 25 Jan 2010 05:43:02 -0600
Date: Mon, 25 Jan 2010 11:43:01 +0000
From: Scott <acepilotREMOVE@bloomer.net>
```

```
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: jury rigged vhf receiver
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
<bradnXyJGKrd_MHWnZ2dnUVZ_j6dnZ2d@earthlink.com>
<DfSdncNh0c06-8HWnZ2dnUVZ_gli4p2d@bright.net>
<ysSdnRtGuNmeg8DWnZ2dnUVZ_q6dnZ2d@earthlink.com>
In-Reply-To: <ysSdnRtGuNmeg8DWnZ2dnUVZ_q6dnZ2d@earthlink.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <T9adnRp4DYpbHsDWnZ2dnUVZ_qydnZ2d@bright.net>
Lines: 12
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-Luax5R3XhVHHZ3vVM2y1hnf22AP6+qai7/
Q2YdWPOr14thkeg1bazBe9f1+V+D0py8HvuFNJ6VC9H5c!
PRb7KrvbkDiJlNlhAGE1DVcHGl+AtSPNgbu41zd0+AnnQPcDh43hSWtL8B7wdTW6kYvcytOWkBNP!
qVU+QuFvdw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3066

sorry-spammers wrote:

>
> (managed an entire 15 QSOs in this weekend's contest, as a rover
> operation.  (admittedly only two grids...))
>

Yes, the bands were kinda flat.  Plus, we had RAIN on Saturday and wet
snow on Sunday here in WI (which REALLY sucks)...Sunday brought high SWR
on the 6M antenna so I couldn't use it and didn't hear a peep on 2M.
And with the crummy precip, I had no desire to rove or set up the
portable antennas on 222, 432, 902 or 10 GHz....


From 2768002391038564394
X-Google-Thread: 241b302a50,3515d56c7a7a915,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!usenet-
fr.net!de-l.enfer-du-nord.net!newsfeed.eweka.nl!eweka.nl!feeder3.eweka.nl!
69.16.177.246.MISMATCH!cyclone03.ams2.highwinds-media.com!news.highwinds-
media.com!npeersf02.ams.highwinds-media.com!newsfe14.ams2.POSTED!7564ea0f!not-for-
mail
From: "Howard James" <howardwj@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: LV1236G
Lines: 9
```

```
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <ppn7n.97409$yt6.17178@newsfe14.ams2>
NNTP-Posting-Host: 82.21.20.235
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe14.ams2 1264452309 82.21.20.235 (Mon, 25 Jan 2010 20:45:09 UTC)
NNTP-Posting-Date: Mon, 25 Jan 2010 20:45:09 UTC
Organization: virginmedia.com
Date: Mon, 25 Jan 2010 20:45:09 -0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:3067

I'm having trouble finding the pinouts for the KV1236G. It's two varicap
diodes in one package. Can anyone help please? I've looked on the web but
not very useful.
If I connect the two diodes in parallel do I get exactly twice the
capacitance variance of a single diode and is there anything to watch for by
doing this? Also series connection of course.
Thanks. Howard.




From 7460689868176794297
X-Google-Thread: 241b302a50,208cf69a15c6c820,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y12g2000yqh.googlegroups.com!not-for-
mail
From: raja inal <rajainal1983@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Earth-4Energy Review!!!
Date: Mon, 25 Jan 2010 16:29:25 -0800 (PST)
Organization: http://groups.google.com
Lines: 10
Message-ID: <075e134e-8de5-4ced-82d0-a50b1319e7df@y12g2000yqh.googlegroups.com>
NNTP-Posting-Host: 222.124.3.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1264465765 12410 127.0.0.1 (26 Jan 2010 00:29:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Jan 2010 00:29:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y12g2000yqh.googlegroups.com; posting-host=222.124.3.12;
     posting-account=4_lOIwoAAAB-5K75dfOzCQ2dukD4NzX8
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US;
     rv:1.9.2a1pre) Gecko/20090717 Minefield/3.6a1pre,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3068
```

Read My Independent Review Of
Earth-4Energy & Decide For Yourself!
http://earth-4energy-review.123probiz.com

Go Green :)

Hafifuddin
Supervisor
http://www.gogonai.info/?id=hafifuddin

```
From -2739478755998707653
X-Google-Thread: 241b302a50,3515d56c7a7a915
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!q4g2000yqm.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LV1236G
Date: Mon, 25 Jan 2010 18:22:39 -0800 (PST)
Organization: http://groups.google.com
Lines: 26
Message-ID: <90cf0b99-67ee-41de-930c-15678ffd10b9@q4g2000yqm.googlegroups.com>
References: <ppn7n.97409$yt6.17178@newsfe14.ams2>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1264472559 27197 127.0.0.1 (26 Jan 2010 02:22:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Jan 2010 02:22:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q4g2000yqm.googlegroups.com; posting-host=192.25.240.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.7)
     Gecko/20091221 Firefox/3.5.7,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3069
```

On Jan 25, 12:45=A0pm, "Howard James" <howar...@ntlworld.com> wrote:

> I'm having trouble finding the pinouts for the KV1236G. It's two varicap
> diodes in one package. Can anyone help please? I've looked on the web but
> not very useful.
> If I connect the two diodes in parallel do I get exactly twice the
> capacitance variance of a single diode and is there anything to watch for=
 by
> doing this? Also series connection of course.
> Thanks. Howard.

I gather it's an obsolete Toko part. How many pins does it have? You

should be able to tell with an ohmmeter which pins the diodes are
connected to. Many duals are common cathode; some are common anode,
and a very few are series-connected.

All the duals I know of are two of the same capacitance diode, so yes,
if you hook the two in parallel, it should double the capacitance. If
you connect two in series you need some way to guarantee equal DC
voltage across the two if you want them to be equal capacitance.
Normally for that, I'd just use a single diode rated at lower
capacitance. Two (or more) in parallel can be helpful if you're
trying to reach very high capacitance (e.g. to tune an LF loop
remotely).

Cheers,
Tom

From 5511470466835349859
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!a13g2000vbf.googlegroups.com!not-for-mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio conversion
Date: Tue, 26 Jan 2010 20:46:08 -0800 (PST)
Organization: http://groups.google.com
Lines: 37
Message-ID: <c1e64a8d-6852-499b-9dee-4dbb1ad2bb6c@a13g2000vbf.googlegroups.com>
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
NNTP-Posting-Host: 142.162.128.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1264567568 12578 127.0.0.1 (27 Jan 2010 04:46:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Jan 2010 04:46:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a13g2000vbf.googlegroups.com; posting-host=142.162.128.246;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6.3),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3070

On Dec 27 2009, 3:34=A0pm, Gene <mog...@aol.com> wrote:
> Season`s greetings to all...
> While in England in `91, I picked up a Ford motor car radio receiver.
> P21 79GB-18K810 =A0HA . =A0 Two band , LW & MW .. (166 KHz - 285 KHz LW
> & =A0666KHz =A0- 1500Khz MW =A0+/-) .I would like to extend the LW band =
as

> high in frequency as i can , and the MW band as low as i can in
> frequency..I.F. is 465 kHz...Object : To create a beacon (200KHz -
> 400 KHz) receiver...
> Is there anyone out there that has any experience , and or ideas with
> what i have in mind ?
>
> TIA =A0 Gene =A0 WB7NGI

Based on the OP. Postulating some numbers!

The Long Wave band 166 to 285. That's ratio of 1:1.7
The local oscillator with an IF of 465 would be (465 + 166 =3D 631) to
(465 + 285 =3D 750) a ratio of only 1:1.18!

The Medium Wave band 666 to 1500. A ratio of 1:2.25
The local oscillator being (465 + 666 =3D 1131) to (465 + 1500 =3D 1965) a
ratio of 1:1.73.

To tune 200 to 400 khz. is a ratio of (at least) 1:2. And retaining
an IF of 465 would require, say, a local oscillator variation from
(465 + 200 =3D 665) to (465 + 400 =3D 865) a ratio of 865/665 or 1:1.3

However those 200 to 400 kilohertz aircraft beacon radios, covering
specifically 200 to 400 are quite often on eBay!

Another alternative would be a 190 to 550 kilo hertz ARC-5/BC453
'Command radio'. Those have 12 volt tubes that can easily be rewired
from 24 to 12 volt operation.

Another quicker alternative would be some form of small solid state
converter tuned or fixed into the Med. Wave band.

From -1110587053647527416
X-Google-Thread: 241b302a50,f59a55e2d848638d,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k5g2000yqf.googlegroups.com!not-for-mail
From: Too_Many_Tools <too_many_tools@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: The Haitian Earthquake happens..what do you build for a radio?
Date: Wed, 27 Jan 2010 13:46:01 -0800 (PST)
Organization: http://groups.google.com
Lines: 13
Message-ID: <cefe5bd1-9496-4822-a06f-261753afd042@k5g2000yqf.googlegroups.com>
NNTP-Posting-Host: 4.252.212.63
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1264628761 7889 127.0.0.1 (27 Jan 2010 21:46:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Jan 2010 21:46:01 +0000 (UTC)

Complaints-To: groups-abuse@google.com
Injection-Info: k5g2000yqf.googlegroups.com; posting-host=4.252.212.63;
     posting-account=nCZeCQkAAAAx3xSRdLXV0QUsFRsxw7lv
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1)),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3071

Let's do a "what-if".

You liive in Haiti and the earthquake occurs.

All hell breaks out...you escape with your life and nothing else.

You need to communicate with your family in the States.

What do you build for a radio from the rubble?

Looking forward to the submissions.

TMT

From -8920160781364943986
X-Google-Thread: 241b302a50,ba23089760b98c81
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.brightview.co.uk!news.brightview.co.uk.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 28 Jan 2010 11:46:19 -0600
From: "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <buGdnYXoh_D_CNLWnZ2dnUVZ8ridnZ2d@brightview.co.uk>
<nJSdnRFJO8B11s3WnZ2dnUVZ8rWdnZ2d@pipex.net>
<0aCdnQYDD46qNs3WnZ2dnUVZ8nGdnZ2d@brightview.co.uk>
Subject: Re: Looking For MC145106 in UK
Date: Thu, 28 Jan 2010 17:46:20 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <JM-dnbtcvpX2UPzWnZ2dnUVZ8uadnZ2d@brightview.co.uk>
Lines: 13
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
pYaO6VzCfvwJMOyqCe7gFDxL8GAy5C0GBb53LWRsN9UMYP+ARZR7oKBVoxEtqncSLj6s7yHd8RXfnqR!
6YRRquKDhlU0cdl3jDG1FbVF4CBXYCJGrtSm0Xekx8t3SsLDmLct9l+QlKo0QsUDi1NdxZc3r1/C!
Ztfsf2b+Qo2FGJ0UDLw1cQV6pnc=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint

properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3072

Hi,

A small update. I bought the MC145106, gave it to my friend and he is chuffed to bits.

Thanks again,

73
JOHN
M5AML
www.wells10000.plus.com/m5aml

From -6679348749064355349
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!STARBAND.NET-a2kHrUvQQWlmc!not-for-mail
From: You <you@shadow.orgs>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The Haitian Earthquake happens..what do you build for a radio?
Organization: Shadow.orgs
References: <cefe5bd1-9496-4822-a06f-261753afd042@k5g2000yqf.googlegroups.com>
User-Agent: MT-NewsWatcher/3.5.3b3 (PPC Mac OS X)
Date: Thu, 28 Jan 2010 10:44:48 -0900
Message-ID: <you-EC2FBB.10442628012010@unknown.hwng.net>
X-Complaints-To: abuse@usenetserver.com
Lines: 21
X-Trace: 670524b61e93331ebfddf19574
Xref: g2news1.google.com rec.radio.amateur.homebrew:3073

In article
<cefe5bd1-9496-4822-a06f-261753afd042@k5g2000yqf.googlegroups.com>,
 Too_Many_Tools <too_many_tools@yahoo.com> wrote:

> Let's do a "what-if".
>
> You liive in Haiti and the earthquake occurs.
>
> All hell breaks out...you escape with your life and nothing else.
>
> You need to communicate with your family in the States.
>
> What do you build for a radio from the rubble?
>
> Looking forward to the submissions.
>

> TMT

That's easy.... you go to the National Army HQ. and steal one of their
HF Rigs, then steal a battery out of a smashed Car, and strip some wire
out of a fallen building, and your on the air.... Duh....

From 7988396598336295892
X-Google-Thread: 241b302a50,f59a55e2d848638d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!news.glorb.com!
feeder.erje.net!news.mixmin.net!aioe.org!not-for-mail
From: jimp@specsol.spam.sux.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The Haitian Earthquake happens..what do you build for a radio?
Date: Thu, 28 Jan 2010 20:50:09 -0000
Organization: Aioe.org NNTP Server
Lines: 30
Message-ID: <1t9937-olq.ln1@mail.specsol.com>
References: <cefe5bd1-9496-4822-a06f-261753afd042@k5g2000yqf.googlegroups.com>
<you-EC2FBB.10442628012010@unknown.hwng.net>
NNTP-Posting-Host: 5FQzpG9PgxCHgWX2ynv4yg.user.speranza.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (SunOS/5.10 (i86pc))
X-Notice: Filtered by postfilter v. 0.8.2
Xref: g2news1.google.com rec.radio.amateur.homebrew:3074

You <you@shadow.orgs> wrote:
> In article
> <cefe5bd1-9496-4822-a06f-261753afd042@k5g2000yqf.googlegroups.com>,
> Too_Many_Tools <too_many_tools@yahoo.com> wrote:
>
>> Let's do a "what-if".
>>
>> You liive in Haiti and the earthquake occurs.
>>
>> All hell breaks out...you escape with your life and nothing else.
>>
>> You need to communicate with your family in the States.
>>
>> What do you build for a radio from the rubble?
>>
>> Looking forward to the submissions.
>>
>> TMT
>
> That's easy.... you go to the National Army HQ. and steal one of their
> HF Rigs, then steal a battery out of a smashed Car, and strip some wire
> out of a fallen building, and your on the air.... Duh....

Two batteries; most military stuff these days is 24V.

--
Jim Pennino

Remove .spam.sux to reply.

```
From -6971209288409486040
X-Google-Thread: 241b302a50,8846f7307d266fc6,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 28 Jan 2010 15:10:38 -0600
Date: Thu, 28 Jan 2010 21:10:37 +0000
From: highlandham <highlandham.nospam@rfburns.eu>
User-Agent: Thunderbird 2.0.0.23 (X11/20100108)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Wireless microphones in the USA
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <kMGdnY7NzqPTYPzWnZ2dnUVZ7v6dnZ2d@pipex.net>
Lines: 27
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.110.157.35
X-Trace: sv3-
VJge7JS4qGWQDlCwJiuyupG2smiHYHqSVv2oG22NPKl4poNiPD3aGJCFgw2YXb1Yq1o3s+vhgds44Ri!
bG7eAZ8V0gtDuhFHsW3o9+spYGClo/6DCvqgUQZBe8Yu2BCO2i4QLfDYbQt8YhP2DvD+6Yc+OBze!
NErs7+JEhpTXUD2GrMTPhAotGw==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3075
```

Probably like many of you I just received the following message from FCC
:

Under a new FCC rule, anyone who uses a wireless microphone that operates in the 700 MHz Band must stop operating their wireless microphone no later than June 12, 2010. All users of 700 MHz Band wireless microphones (and similar devices) - including theaters, churches, schools, conference centers, theme parks, and musicians -- will need to retune (where possible) or replace their wireless microphone equipment with other microphone devices no later than June 12, 2010. This action helps complete an important component of the DTV Transition by clearing the 700 MHz band to enable the rollout of communications services for public safety and the deployment of next generation 4G wireless devices for consumers.

For further information, please visit the website at
www.fcc.gov/cgb/wirelessmicrophones

My question : Can these wireless devices be re-tuned ,or have they now
become obsolete. The 700 MHz band is from 698 -806 MHz.

For many organisations like churches this might become an expensive ruling.

Frank   GM0CSZ / KN6WH

```
From -3970302593096446039
X-Google-Thread: 241b302a50,8846f7307d266fc6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!z26g2000yqm.googlegroups.com!not-for-
mail
From: "JRCCrabtree@gmail.com" <jrccrabtree@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wireless microphones in the USA
Date: Thu, 28 Jan 2010 15:50:50 -0800 (PST)
Organization: http://groups.google.com
Lines: 42
Message-ID: <1909d58d-2e26-4bf3-9e1e-8eb7a1a340eb@z26g2000yqm.googlegroups.com>
References: <kMGdnY7NzqPTYPzWnZ2dnUVZ7v6dnZ2d@pipex.net>
NNTP-Posting-Host: 205.188.117.19
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1264722650 14124 127.0.0.1 (28 Jan 2010 23:50:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 28 Jan 2010 23:50:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z26g2000yqm.googlegroups.com; posting-host=205.188.117.19;
     posting-account=oReaeAoAAAC8QjvgaTJKVc8n6hZSq0yP
User-Agent: G2/1.0
X-HTTP-Via: HTTP/1.1 spider-dtc-tc02.proxy.aol.com[CDBC7042] (Prism/1.2.1),
     HTTP/1.1 cache-dtc-ae15.proxy.aol.com[CDBC7513] (Traffic-Server/6.1.5 [uScM])
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 7.0; Windows NT
     5.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3076
```

On Jan 28, 3:10=EF=BF=BDpm, highlandham <highlandham.nos...@rfburns.eu> wro=
te:

> Probably like many of you I just received the following message from FCC
> :

```
> =EF=BF=BD Under a new FCC rule, anyone who uses a wireless microphone tha=
t
> operates in the 700 MHz Band must stop operating their wireless
> microphone no later than June 12, 2010. =EF=BF=BDAll users of 700 MHz Ban=
d
> wireless microphones (and similar devices) - including theaters,
> churches, schools, conference centers, theme parks, and musicians --
> will need to retune (where possible) or replace their wireless
> microphone equipment with other microphone devices no later than June
> 12, 2010. This action helps complete an important component of the DTV
> Transition by clearing the 700 MHz band to enable the rollout of
> communications services for public safety and the deployment of next
> generation 4G wireless devices for consumers.
>
> For further information, please visit the website atwww.fcc.gov/cgb/wirel=
essmicrophones
>
> My question : =EF=BF=BDCan these wireless devices be re-tuned ,or have th=
ey now
> become obsolete. The 700 MHz band is from 698 -806 MHz.
>
> For many organisations like churches this might become an expensive rulin=
g.
>
> Frank =EF=BF=BD GM0CSZ / KN6WH

Frank

Thanks for this post.  I have care of ca. a dozen wireless
microphones.  Fortunately they are in two bands at ca. 500MHz.

My guess is that it will be difficult to retune these devices to
another band, and it will have to be looked at on a case by case
basis.  The Shure programmable units offer many channels in a
relatively small bandwidth.  This presumably makes front-end
filtering, and PA matching easier.

73 John  KC0G


From -4396241178050372450
X-Google-Thread: 241b302a50,8846f7307d266fc6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
feed.news.qwest.net!mpls-nntp-07.inet.qwest.net!216.196.98.149.MISMATCH!
Xl.tags.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 28 Jan 2010 19:34:01 -0600
Subject: Re: Wireless microphones in the USA
Date: Thu, 28 Jan 2010 17:34:00 -0800
From: artie <artie.m@gNOSPAMmail.com>
```

Newsgroups: rec.radio.amateur.homebrew
Message-ID: <28012010173400278l%artie.m@gNOSPAMmail.com>
References: <kMGdnY7NzqPTYPzWnZ2dnUVZ7v6dnZ2d@pipex.net>
<1909d58d-2e26-4bf3-9e1e-8eb7a1a340eb@z26g2000yqm.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 8bit
Mail-Copies-To: nobody
User-Agent: Thoth/1.8.4 (Carbon/OS X)
Lines: 67
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-dj3rQOYpqBZQyfgnS1Sa2bgpWj36bLOsJoL/
4ifmb2UsJGlqDZaRAMZZVyo6ZXsqwlqhikPKOXFnySn!
aAnSS2arQTDWlb+bKnFrXpXiElWrI3jv1Io6SCn2zFkOsP4UvDSGA59pLl3lGWx/cELKozg=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3077

In article
<1909d58d-2e26-4bf3-9e1e-8eb7a1a340eb@z26g2000yqm.googlegroups.com>,
<"JRCCrabtree@gmail.com"> wrote:

> On Jan 28, 3:10?pm, highlandham <highlandham.nos...@rfburns.eu> wrote:
> > Probably like many of you I just received the following message from FCC
> > :
> > ? Under a new FCC rule, anyone who uses a wireless microphone that
> > operates in the 700 MHz Band must stop operating their wireless
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> >
> > For further information, please visit the website
> > atwww.fcc.gov/cgb/wirelessmicrophones
> >
> > My question : ?Can these wireless devices be re-tuned ,or have they now
> > become obsolete. The 700 MHz band is from 698 -806 MHz.
> >
> > For many organisations like churches this might become an expensive ruling.
> >
> > Frank ? GM0CSZ / KN6WH
>
> Frank
>

> Thanks for this post. I have care of ca. a dozen wireless
> microphones. Fortunately they are in two bands at ca. 500MHz.
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> basis. The Shure programmable units offer many channels in a
> relatively small bandwidth. This presumably makes front-end
> filtering, and PA matching easier.
>
> 73 John KC0G

This has been in the works for some time. A number of mic
manufacturers are offering trade-in and trade-up programs for folks
with mics in the 700 MHz band.

On the flip side of this ruling, the FCC has admitted that requiring
licenses for wireless mics (on other bands) is futile at best and for
the time being at least, is throwing up their collective hands.

The NPRM is FCC-10-16A1.pdf, available at:

http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-10-16A1.pdf

The FCC is seeking comments on the nature of licenses, license
requirements, and the whole enchilada going forward -- so more changes
are in store in the future for wireless mics.

But for now, other than clearing the 700 MHz band, churches, schools,
theatres, and bands are safe using their wireless kit.

A good site to watch on these matters is:

http://www.commlawblog.com/

it's published by a law firm that does FCC stuff. I'm not associated
with it; I find it useful.

From -8103742508830514830
X-Google-Thread: 241b302a50,8846f7307d266fc6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!newsfeed2.telusplanet.net!newsfeed.telus.net!news-in-02.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-05.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <kMGdnY7NzqPTYPzWnZ2dnUVZ7v6dnZ2d@pipex.net>
Subject: Re: Wireless microphones in the USA
Lines: 31

MIME-Version: 1.0
Content-Type: text/plain;
format=flowed;
charset="iso-8859-1";
reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <mmr8n.190147$N07.145872@en-nntp-05.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Thu, 28 Jan 2010 18:04:01 -0800
Xref: g2news1.google.com rec.radio.amateur.homebrew:3078

"highlandham" <highlandham.nospam@rfburns.eu> wrote in message news:kMGdnY7NzqPTYPzWnZ2dnUVZ7v6dnZ2d@pipex.net...
> My question : Can these wireless devices be re-tuned ,or have they now
> become obsolete. The 700 MHz band is from 698 -806 MHz.

Some can, some can't -- I'm not sure anyone could really say the percentage that are truly obsolete vs. re-tunable, as part of the original problem is that few of these wireless mics were ever registered. The FCC has a list of the *models* they know about here:
http://www.fcc.gov/cgb/wirelessmicrophones/manufacturers.html

> For many organisations like churches this might become an expensive ruling.

You can actually find some very nice systems these days for a few hundreds dollars, although I realize that for some churchs even that could be expensive. If the FCC is smart, they'll provide plenty of time (many months) between sending out notices to those who've been detected as violating the new rules and actually prosecuting... since it doesn't look good at all to go after, e.g., some small church that has been using some wireless mics for years without problems and very likely never knew they weren't authorized to do so... but now suddently they're the bad guys because Verizon or whoever paid hundreds of millions to the feds to own that chunk of spectrum and they darned well expect to be able to do so without squatters.

There are many web sites that make some mention of this issue... here's one specific to churches:
http://arstechnica.com/tech-policy/news/2010/01/time-for-churches-to-come-to-jesus-on-wireless-mic-legality.ars

---Joel

From -5281942205220594780

X-Google-Thread: 241b302a50,ba23089760b98c81
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!feeder.erje.net!feeder.eternal-september.org!eternal-september.org!.POSTED!not-for-mail
From: Charlie Carothers <obfuscatecsquared3@tx.rr.com.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking For MC145106 in UK
Date: Thu, 28 Jan 2010 22:16:30 -0600
Organization: A noiseless patient Spider
Lines: 25
Message-ID: <hjtngf$jkc$1@news.eternal-september.org>
References: <buGdnYXoh_D_CNLWnZ2dnUVZ8ridnZ2d@brightview.co.uk>
<nJSdnRFJO8B11s3WnZ2dnUVZ8rWdnZ2d@pipex.net>
<0aCdnQYDD46qNs3WnZ2dnUVZ8nGdnZ2d@brightview.co.uk> <JM-dnbtcvpX2UPzWnZ2dnUVZ8uadnZ2d@brightview.co.uk>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Fri, 29 Jan 2010 04:17:20 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-host="UF30aLzzMzzRRGsbYJ6RIw";
     logging-data="20108"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX18SGALfROBfGEH5nvyUIOpv"
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
In-Reply-To: <JM-dnbtcvpX2UPzWnZ2dnUVZ8uadnZ2d@brightview.co.uk>
Cancel-Lock: sha1:AQ9AQRKdBaRlaWH1Cx2MKmZ/QZU=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3079

John W wrote:
> Hi,
>
> A small update. I bought the MC145106, gave it to my friend and he is
> chuffed to bits.
>
> Thanks again,
>
> 73
> JOHN
> M5AML
> www.wells10000.plus.com/m5aml
>
>

OK, I just gotta ask. (I sort of collect English idiomatic expressions.) I looked up chuffed on Dictionary.com and it says: "Adjective British Informal: annoyed; displeased; disgruntled." It is also listed as describing the sound of a train, etc.
My obvious question is, if he wanted one, and you bought and gave him one, why is he "chuffed to bits"?
Or is there some more recent/other definition I don't know about?

EMWTK/IMWTK :) (Another English/English translation issue I think of enquiring vs. inquiring.)
Thanks,
Charlie Carothers

From 8976508994122846062
X-Google-Thread: 241b302a50,f59a55e2d848638d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!g39g2000vba.googlegroups.com!not-for-mail
From: Too_Many_Tools <too_many_tools@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The Haitian Earthquake happens..what do you build for a radio?
Date: Thu, 28 Jan 2010 20:40:43 -0800 (PST)
Organization: http://groups.google.com
Lines: 18
Message-ID: <68bd1caf-c77e-4314-8e9f-964241fd98b6@g39g2000vba.googlegroups.com>
References: <cefe5bd1-9496-4822-a06f-261753afd042@k5g2000yqf.googlegroups.com>
NNTP-Posting-Host: 4.252.209.104
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1264740043 4383 127.0.0.1 (29 Jan 2010 04:40:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 29 Jan 2010 04:40:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g39g2000vba.googlegroups.com; posting-host=4.252.209.104;
posting-account=nCZeCQkAAAAx3xSRdLXV0QUsFRsxw7lv
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1)),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3080

On Jan 27, 3:46=A0pm, Too_Many_Tools <too_many_to...@yahoo.com> wrote:
> Let's do a "what-if".
>
> You liive in Haiti and the earthquake occurs.
>
> All hell breaks out...you escape with your life and nothing else.
>
> You need to communicate with your family in the States.
>
> What do you build for a radio from the rubble?
>
> Looking forward to the submissions.
>
> TMT

Hm...where are the McGyver type submissions I expected from you guys?

```
TMT


From 6805980460015894579
X-Google-Thread: 241b302a50,8846f7307d266fc6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!36g2000yqu.googlegroups.com!not-for-
mail
From: "sohosources@gmail.com" <sohosources@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wireless microphones in the USA
Date: Fri, 29 Jan 2010 00:17:42 -0800 (PST)
Organization: http://groups.google.com
Lines: 13
Message-ID: <c3784e7a-a9d5-4c2b-9aa3-964005788742@36g2000yqu.googlegroups.com>
References: <kMGdnY7NzqPTYPzWnZ2dnUVZ7v6dnZ2d@pipex.net>
NNTP-Posting-Host: 96.42.231.46
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1264753062 31508 127.0.0.1 (29 Jan 2010 08:17:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 29 Jan 2010 08:17:42 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 36g2000yqu.googlegroups.com; posting-host=96.42.231.46;
     posting-account=TmA4BQoAAAAH1_bqe6c-9zLlX8I7bKoA
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.17)
     Gecko/2009122116 Firefox/3.0.17,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3081

From what I can tell, churches in the USA that are large enough to
require wireless mics have PLENTY of money...  :)

--NT0Z

On Jan 28, 3:10=A0pm, highlandham <highlandham.nos...@rfburns.eu> wrote:

>
> For many organisations like churches this might become an expensive rulin=
g.
>
> Frank =A0 GM0CSZ / KN6WH



From 2837290613081533620
X-Google-Thread: 241b302a50,ba23089760b98c81
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Adam Sampson <ats@offog.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking For MC145106 in UK
Date: Fri, 29 Jan 2010 10:44:34 +0000
Organization: I'll send this message down the wire and hope that someone wise is listening
Lines: 14
Message-ID: <y2avdelqjfx.fsf@cartman.at.offog.org>
References: <buGdnYXoh_D_CNLWnZ2dnUVZ8ridnZ2d@brightview.co.uk>
     <nJSdnRFJO8B11s3WnZ2dnUVZ8rWdnZ2d@pipex.net>
     <0aCdnQYDD46qNs3WnZ2dnUVZ8nGdnZ2d@brightview.co.uk>
     <JM-dnbtcvpX2UPzWnZ2dnUVZ8uadnZ2d@brightview.co.uk>
     <hjtngf$jkc$1@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
X-Trace: individual.net kxeQ68EOYJo9Tjva7YTu6QQ6j5J/oaPRq8EqPVj7SSKji5adfT
X-Orig-Path: cartman.offog.org!news
Cancel-Lock: sha1:S2ArcJflyZg+n8R1Ay5EXYmanmk= sha1:eioi/HC8LqUVn10kTP6OIotWcn4=
User-Agent: Gnus/5.13 (Gnus v5.13) Emacs/23.1 (gnu/linux)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3082

Charlie Carothers <obfuscatecsquared3@tx.rr.com.invalid> writes:

> I looked up chuffed on Dictionary.com and it says:
> "Adjective British Informal: annoyed; displeased; disgruntled."

The OED has a good definition of "chuffed, a.":

"a. Pleased, satisfied.   b. Displeased, disgruntled."

"chuffed to bits" is a stock phrase that always has the first meaning,
though ("delighted", pretty much).

--
Adam Sampson <ats@offog.org>   <http://offog.org/>

From -4471106794553301286
X-Google-Thread: 241b302a50,ba23089760b98c81
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!de-l.enfer-du-nord.net!newsfeed.eweka.nl!eweka.nl!feeder3.eweka.nl!69.16.177.246.MISMATCH!cyclone03.ams2.highwinds-media.com!news.highwinds-media.com!npeersf02.ams.highwinds-media.com!newsfe17.ams2.POSTED!7564ea0f!not-for-mail
Message-ID: <63ZLmtJmeuYLFwyn@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking For MC145106 in UK
References: <buGdnYXoh_D_CNLWnZ2dnUVZ8ridnZ2d@brightview.co.uk>

<nJSdnRFJO8B11s3WnZ2dnUVZ8rWdnZ2d@pipex.net>
<0aCdnQYDD46qNs3WnZ2dnUVZ8nGdnZ2d@brightview.co.uk>
<JM-dnbtcvpX2UPzWnZ2dnUVZ8uadnZ2d@brightview.co.uk>
<hjtngf$jkc$1@news.eternal-september.org>
Lines: 54
MIME-Version: 1.0
Content-Type: text/plain;charset=utf-8;format=flowed
Content-Transfer-Encoding: 8bit
User-Agent: Turnpike/6.06-S (<3EdqWeTbKPj1cPCj2xFoeADEmX>)
NNTP-Posting-Host: 80.176.138.122
X-Complaints-To: abuse@demon.net
X-Trace: newsfe17.ams2 1264773034 80.176.138.122 (Fri, 29 Jan 2010 13:50:34 UTC)
NNTP-Posting-Date: Fri, 29 Jan 2010 13:50:34 UTC
Date: Fri, 29 Jan 2010 13:50:30 +0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:3083

In message <hjtngf$jkc$1@news.eternal-september.org>, Charlie Carothers <obfuscatecsquared3@tx.rr.com.invalid> writes
>John W wrote:
>> Hi,
>> A small update. I bought the MC145106, gave it to my friend and he
>>is chuffed to bits.
>> Thanks again,
>> 73
>> JOHN
>> M5AML
>> www.wells10000.plus.com/m5aml
>>
>OK, I just gotta ask. (I sort of collect English idiomatic
>expressions.) I looked up chuffed on Dictionary.com and it says:
>"Adjective British Informal: annoyed; displeased; disgruntled." It is
>also listed as describing the sound of a train, etc.
>My obvious question is, if he wanted one, and you bought and gave him
>one, why is he "chuffed to bits"?
>Or is there some more recent/other definition I don't know about?
>EMWTK/IMWTK :) (Another English/English translation issue I think of
>enquiring vs. inquiring.)
>Thanks,
>Charlie Carothers

You are being selective in quoting the definition of "chuffed" from Dictionary.com.

The first is:
adjective British Informal. delighted; pleased; satisfied.
Origin:
1855–60; see chuff 2 , -ed 2

This is current, in common, informal parlance, as in "chuffed to bits" (="pleased to bits") and "chuffed to death"(!). This is the meaning in the posting above.

The second is:

-adjective British Informal. annoyed; displeased; disgruntled.
Origin:
1825–35; cf. dial. (mainly S England) chuff, choff ill-tempered,
surly, prob. to be identified with chuff 1

Surprisingly, this appears to be the exact opposite of the first. It's
not a meaning which I recognise, and certainly not current.

The third is the obviously onomatopoeic sound of the noise made by a
steam engine.
-noun 1. a sound of or like the exhaust of a steam engine.
-verb (used without object) 2. to emit or proceed with chuffs: The
train chuffed along.
Origin:
1910–15; imit.Dictionary.com Unabridged
--
Ian

```
From -4816033266974706300
X-Google-Thread: 241b302a50,f59a55e2d848638d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!m16g2000yqc.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The Haitian Earthquake happens..what do you build for a radio?
Date: Fri, 29 Jan 2010 07:50:52 -0800 (PST)
Organization: http://groups.google.com
Lines: 50
Message-ID: <57e8809d-a44c-4b3e-9a82-1f3c70a006de@m16g2000yqc.googlegroups.com>
References: <cefe5bd1-9496-4822-a06f-261753afd042@k5g2000yqf.googlegroups.com>
NNTP-Posting-Host: 99.92.118.211
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1264780252 27812 127.0.0.1 (29 Jan 2010 15:50:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 29 Jan 2010 15:50:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m16g2000yqc.googlegroups.com; posting-host=99.92.118.211;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; GTB6.3; InfoPath.1; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152;
     .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3084
```

On Jan 27, 4:46=A0pm, Too_Many_Tools <too_many_to...@yahoo.com> wrote:
> Let's do a "what-if".
>

> You liive in Haiti and the earthquake occurs.
>
> All hell breaks out...you escape with your life and nothing else.
>
> You need to communicate with your family in the States.
>
> What do you build for a radio from the rubble?
>
> Looking forward to the submissions.
>
> TMT

HEY OM:

As incident commander you must:
Set up a command post then:
Find a few AM radios in da ruble. You will need 3 radios. One for receive, one for bfo, one to use the local oscillator for the xmitter. Using the so called morse code to send and receive your info.

The bfo radio will have to be tuned 455khz above the receive freq. so you will be able to copy morse code and will have to be close to the receive radio to hetrodyne the morse code signal. Although in pinch you could ask that A3 mode be sent where you don't needs a bfo.

For an aerial use a fallen power main, as it will be quite sum time b4 the main becomes live.
And you must has a good ground connection. Like a copper water pipe coming out of the ground, even a lead pipe would work

Send SOS until somebody copies you.

When your batteries go dead use a car altenator attached to bike frame, use nylon panty hose for a drive belt, attached to the rear rim, enlist people to peddle the bike for more power.

After it's all said and done:
File an incident report
and debrief yourself in a debriefing meeting.

I read sum where's that any frequency and any power can be used in this emergency.

73 OM
de n8zu

From -5231650260762241316
X-Google-Thread: 241b302a50,f59a55e2d848638d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes

```
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!l19g2000yqb.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The Haitian Earthquake happens..what do you build for a radio?
Date: Fri, 29 Jan 2010 08:15:41 -0800 (PST)
Organization: http://groups.google.com
Lines: 35
Message-ID: <f9835b4b-5ea6-4de2-9314-3428a7729385@l19g2000yqb.googlegroups.com>
References: <cefe5bd1-9496-4822-a06f-261753afd042@k5g2000yqf.googlegroups.com>
     <68bd1caf-c77e-4314-8e9f-964241fd98b6@g39g2000vba.googlegroups.com>
NNTP-Posting-Host: 99.92.118.211
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1264781741 5982 127.0.0.1 (29 Jan 2010 16:15:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 29 Jan 2010 16:15:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l19g2000yqb.googlegroups.com; posting-host=99.92.118.211;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; GTB6.3; InfoPath.1; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152;
     .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3085

On Jan 28, 11:40=A0pm, Too_Many_Tools <too_many_to...@yahoo.com> wrote:
> On Jan 27, 3:46=A0pm, Too_Many_Tools <too_many_to...@yahoo.com> wrote:
>
> > Let's do a "what-if".
>
> > You liive in Haiti and the earthquake occurs.
>
> > All hell breaks out...you escape with your life and nothing else.
>
> > You need to communicate with your family in the States.
>
> > What do you build for a radio from the rubble?
>
> > Looking forward to the submissions.
>
> > TMT
>
> Hm...where are the McGyver type submissions I expected from you guys?
>
> TMT

HEY OM:

BTW: You might want to take a few online FEMA coarses, like IS200,
IS700 and IS800, these will give you a better idea: what really will
```

be going on, even in a third world country like Haiti.

What all of us would like: to see you get a amateur radio license and join ares, races and become part of your county emergency management, known as EOC. I know that's what any forthright ditto head should do.

73 OM,

de n8zu

```
From 733528344892272131
X-Google-Thread: 241b302a50,8846f7307d266fc6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
cyclone01.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf01.ams.highwinds-media.com!newsfe04.ams2.POSTED!7564ea0f!not-for-mail
Message-ID: <VmdEMfLgPxYLFwmC@birchnet.demon.co.uk>
From: Bill <Bill@birchnet.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wireless microphones in the USA
References: <kMGdnY7NzqPTYPzWnZ2dnUVZ7v6dnZ2d@pipex.net>
 <c3784e7a-a9d5-4c2b-9aa3-964005788742@36g2000yqu.googlegroups.com>
Lines: 27
MIME-Version: 1.0
Content-Type: text/plain;charset=iso-8859-1;format=flowed
Content-Transfer-Encoding: 8bit
User-Agent: Turnpike/6.07-M (<sOYN$qjA8fN6plJQ8aqAlRyznW>)
NNTP-Posting-Host: 81.103.51.159
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe04.ams2 1264784516 81.103.51.159 (Fri, 29 Jan 2010 17:01:56 UTC)
NNTP-Posting-Date: Fri, 29 Jan 2010 17:01:56 UTC
Organization: virginmedia.com
Date: Fri, 29 Jan 2010 16:59:12 +0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:3086
```

In message
<c3784e7a-a9d5-4c2b-9aa3-964005788742@36g2000yqu.googlegroups.com>,
"sohosources@gmail.com" <sohosources@gmail.com> writes

>From what I can tell, churches in the USA that are large enough to
>require wireless mics have PLENTY of money... :)
>

Not only in the USA either:-

<http://www.cofe.anglican.org/news/pr1010.html>

<http://www.saveoursounduk.com/>

```
>--NT0Z
>
>On Jan 28, 3:10�pm, highlandham <highlandham.nos...@rfburns.eu> wrote:
>
>>
>> For many organisations like churches this might become an expensive ruling.
>>
>> Frank � GM0CSZ / KN6WH
>

--
Bill


From -3408430172474788956
X-Google-Thread: 241b302a50,f59a55e2d848638d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!STARBAND.NET-a2kHrUvQQWlmc!not-for-mail
From: You <you@shadow.orgs>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The Haitian Earthquake happens..what do you build for a radio?
Organization: Shadow.orgs
References: <cefe5bd1-9496-4822-a06f-261753afd042@k5g2000yqf.googlegroups.com>
<you-EC2FBB.10442628012010@unknown.hwng.net> <1t9937-olq.ln1@mail.specsol.com>
User-Agent: MT-NewsWatcher/3.5.3b3 (PPC Mac OS X)
Date: Fri, 29 Jan 2010 10:21:25 -0900
Message-ID: <you-BB24AD.10212429012010@unknown.hwng.net>
X-Complaints-To: abuse@usenetserver.com
Lines: 29
X-Trace: 1d1114b63353631ebfddf28174
Xref: g2news1.google.com rec.radio.amateur.homebrew:3087

In article <1t9937-olq.ln1@mail.specsol.com>, jimp@specsol.spam.sux.com
wrote:

> You <you@shadow.orgs> wrote:
> > In article
> > <cefe5bd1-9496-4822-a06f-261753afd042@k5g2000yqf.googlegroups.com>,
> > Too_Many_Tools <too_many_tools@yahoo.com> wrote:
> >
> >> Let's do a "what-if".
> >>
> >> You liive in Haiti and the earthquake occurs.
> >>
> >> All hell breaks out...you escape with your life and nothing else.
> >>
> >> You need to communicate with your family in the States.
> >>
> >> What do you build for a radio from the rubble?
> >>
> >> Looking forward to the submissions.
> >>
> >> TMT
> >
> > That's easy.... you go to the National Army HQ. and steal one of their
> > HF Rigs, then steal a battery out of a smashed Car, and strip some wire
> > out of a fallen building, and your on the air.... Duh....
>
> Two batteries; most military stuff these days is 24V.

Well Yea, there is always that....


From -1823143971244813502
X-Google-Thread: 241b302a50,4ae2ab65f21d3579
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!c4g2000yqa.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: jury rigged vhf receiver
Date: Fri, 29 Jan 2010 13:07:30 -0800 (PST)
Organization: http://groups.google.com
Lines: 29
Message-ID: <e9ea9721-5666-4716-a838-8868c65cdfde@c4g2000yqa.googlegroups.com>
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
     <PJWdnS07ku2NS8HWnZ2dnUVZ_rli4p2d@web-ster.com>
NNTP-Posting-Host: 155.178.5.19
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1264799250 14956 127.0.0.1 (29 Jan 2010 21:07:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 29 Jan 2010 21:07:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c4g2000yqa.googlegroups.com; posting-host=155.178.5.19;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3088

On Jan 24, 6:21=A0pm, Tim Wescott <t...@seemywebsite.com> wrote:
> On Sat, 23 Jan 2010 14:52:14 -0800, JIMMIE wrote:
> > I was wanting to listen to VHF/UHF SSB. All of my present UHF/VHF radio=
s
> > are FM. I was thinking of rigging up a simple downconverter using a min=
i
> > circuit mixer and my HP signal generator as the local oscilator that I
```

> > can connect in front of my HF rig. I have an antenna mounted pre- amp
> > that I think should suffice for my front end. Any foreseeable problems
> > short of keying my transmitter while it is connected.
>
> > Jimmie
>
> Do let us know what you tried, and how it worked.
>
> --www.wescottdesign.com

UPS delivered the mixer yesterday evening but I didnt get to play with it until this AM.Im working evenings. I spent about an hour getting it connected up. There may not have been any SSB activity but I was able to hear all the usual local 2m repeaters using my HF rig set up for 10M FM.

Setup was as about as simple as it gets. With pre- amp at the antenna, antenna , receiver and osc was just connected directly to the mixer with some small coax alledged to be 50 ohms. At this thime I really cant evaluate it more than that.

Jimmie

```
From 5796940851380571195
X-Google-Thread: 241b302a50,8846f7307d266fc6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!m31g2000yqb.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wireless microphones in the USA
Date: Fri, 29 Jan 2010 15:29:17 -0800 (PST)
Organization: http://groups.google.com
Lines: 34
Message-ID: <7f03dfbb-5282-4d9d-8310-595b1fb67a44@m31g2000yqb.googlegroups.com>
References: <kMGdnY7NzqPTYPzWnZ2dnUVZ7v6dnZ2d@pipex.net>
NNTP-Posting-Host: 99.181.110.239
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1264807757 28247 127.0.0.1 (29 Jan 2010 23:29:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 29 Jan 2010 23:29:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m31g2000yqb.googlegroups.com; posting-host=99.181.110.239;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.17)
     Gecko/2009122116 Firefox/3.0.17,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3089
```

On Jan 28, 4:10=A0pm, highlandham <highlandham.nos...@rfburns.eu> wrote:
> Probably like many of you I just received the following message from FCC
> :
> =A0 Under a new FCC rule, anyone who uses a wireless microphone that
> operates in the 700 MHz Band must stop operating their wireless
> microphone no later than June 12, 2010. =A0All users of 700 MHz Band
> wireless microphones (and similar devices) - including theaters,
> churches, schools, conference centers, theme parks, and musicians --
> will need to retune (where possible) or replace their wireless
> microphone equipment with other microphone devices no later than June
> 12, 2010. This action helps complete an important component of the DTV
> Transition by clearing the 700 MHz band to enable the rollout of
> communications services for public safety and the deployment of next
> generation 4G wireless devices for consumers.
>
> For further information, please visit the website atwww.fcc.gov/cgb/wirel=
essmicrophones
>
> My question : =A0Can these wireless devices be re-tuned ,or have they now
> become obsolete. The 700 MHz band is from 698 -806 MHz.
>
> For many organisations like churches this might become an expensive rulin=
g.
>
> Frank =A0 GM0CSZ / KN6WH

HEY OM:

Well yes I can see it now on tv show cops wildest police chase the
local church chiming in with "Amazing Grace" in the middle of THE
police chasing OJ on the xway in a white SUV.

73OM
de n8zu

From -7826727494742906233
X-Google-Thread: 241b302a50,4ae2ab65f21d3579
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 29 Jan 2010 20:24:42 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: jury rigged vhf receiver
Newsgroups: rec.radio.amateur.homebrew
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
     <PJWdnS07ku2NS8HWnZ2dnUVZ_rli4p2d@web-ster.com>
     <e9ea9721-5666-4716-a838-8868c65cdfde@c4g2000yqa.googlegroups.com>

User-Agent: Pan/0.133 (House of Butterflies)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <-vidnTT5kvr3Bf7WnZ2dnUVZ_jli4p2d@web-ster.com>
Date: Fri, 29 Jan 2010 20:24:42 -0600
Lines: 34
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-1Kw9mN3/867KFJwj2HJ/kN51Ov9TmNaCdQZThMg3d7h1No8fec9p61tfO0/AKyR/
AD7AL6pRYV8PZ7g!p9imNEgey6+RGy4gYJeWsZkNsSU+b8Iw6KWxtaKNnW4S0vh5Z8peP/
hquLIuvJTdDt83ZVFp/sKv!pTrKkWhj3JeEca8=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3090

On Fri, 29 Jan 2010 13:07:30 -0800, JIMMIE wrote:

> On Jan 24, 6:21 pm, Tim Wescott <t...@seemywebsite.com> wrote:
>> On Sat, 23 Jan 2010 14:52:14 -0800, JIMMIE wrote:
>> > I was wanting to listen to VHF/UHF SSB. All of my present UHF/VHF
>> > radios are FM. I was thinking of rigging up a simple downconverter
>> > using a mini circuit mixer and my HP signal generator as the local
>> > oscilator that I can connect in front of my HF rig. I have an antenna
>> > mounted pre- amp that I think should suffice for my front end. Any
>> > foreseeable problems short of keying my transmitter while it is
>> > connected.
>>
>> > Jimmie
>>
>> Do let us know what you tried, and how it worked.
>>
>> --www.wescottdesign.com
>
> UPS delivered the mixer yesterday evening but I didnt get to play with
> it until this AM.Im working evenings. I spent about an hour getting it
> connected up. There may not have been any SSB activity but I was able to
> hear all the usual local 2m repeaters using my HF rig set up for 10M FM.
>
> Setup was as about as simple as it gets. With pre- amp at the antenna,
> antenna , receiver and osc was just connected directly to the mixer with
> some small coax alledged to be 50 ohms. At this thime I really cant
> evaluate it more than that.

The bands always go dead right when you finish a radio.

Keep us posted.

--
www.wescottdesign.com

```
From -180493683652383509
X-Google-Thread: 241b302a50,ba23089760b98c81
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
188.40.43.213.MISMATCH!feeder.eternal-september.org!eternal-september.org!.POSTED!
not-for-mail
From: Charlie Carothers <obfuscatecsquared3@tx.rr.com.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking For MC145106 in UK
Date: Fri, 29 Jan 2010 21:42:51 -0600
Organization: A noiseless patient Spider
Lines: 59
Message-ID: <hk09rc$eu3$1@news.eternal-september.org>
References: <buGdnYXoh_D_CNLWnZ2dnUVZ8ridnZ2d@brightview.co.uk>
<nJSdnRFJO8B11s3WnZ2dnUVZ8rWdnZ2d@pipex.net>
<0aCdnQYDD46qNs3WnZ2dnUVZ8nGdnZ2d@brightview.co.uk> <JM-
dnbtcvpX2UPzWnZ2dnUVZ8uadnZ2d@brightview.co.uk> <hjtngf$jkc$1@news.eternal-
september.org> <63ZLmtJmeuYLFwyn@g3ohx.demon.co.uk>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 8bit
Injection-Date: Sat, 30 Jan 2010 03:42:36 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-
host="UF30aLzzMzzRRGsbYJ6RIw";
     logging-data="15299"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19hWt9bUFEihem/HUYoI5ry"
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
In-Reply-To: <63ZLmtJmeuYLFwyn@g3ohx.demon.co.uk>
Cancel-Lock: sha1:NG4vwLcnM6n534kLn++Rc584hMQ=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3091
```

Ian Jackson wrote:
> In message <hjtngf$jkc$1@news.eternal-september.org>, Charlie Carothers
> <obfuscatecsquared3@tx.rr.com.invalid> writes
>> John W wrote:
>>> Hi,
>>> A small update. I bought the MC145106, gave it to my friend and he
>>> is chuffed to bits.
>>> Thanks again,
>>> 73
>>> JOHN
>>> M5AML
>>> www.wells10000.plus.com/m5aml
>>>
>> OK, I just gotta ask. (I sort of collect English idiomatic
>> expressions.) I looked up chuffed on Dictionary.com and it says:
>> "Adjective British Informal: annoyed; displeased; disgruntled." It is
>> also listed as describing the sound of a train, etc.
>> My obvious question is, if he wanted one, and you bought and gave him
>> one, why is he "chuffed to bits"?
>> Or is there some more recent/other definition I don't know about?

>> EMWTK/IMWTK :) (Another English/English translation issue I think of
>> enquiring vs. inquiring.)
>> Thanks,
>> Charlie Carothers
>
> You are being selective in quoting the definition of "chuffed" from
> Dictionary.com.
>
> The first is:
> adjective British Informal. delighted; pleased; satisfied.
> Origin:
> 1855–60; see chuff 2 , -ed 2
>
> This is current, in common, informal parlance, as in "chuffed to bits"
> (="pleased to bits") and "chuffed to death"(!). This is the meaning in
> the posting above.
Good grief! My bad, I missed that one completely. I thought I was just
(intentionally) selectively omitting the definitions having to do with
steam engines and trains. :) In any case, thanks for the clarification,
that makes a lot more sense. I'll add those as the 1st definition to
the "unusual words" document that I keep.

>
> The second is:
> –adjective British Informal. annoyed; displeased; disgruntled.
> Origin:
> 1825–35; cf. dial. (mainly S England) chuff, choff ill-tempered, surly,
> prob. to be identified with chuff 1
>
> Surprisingly, this appears to be the exact opposite of the first. It's
> not a meaning which I recognise, and certainly not current.
>
> The third is the obviously onomatopoeic sound of the noise made by a
> steam engine.
> –noun 1. a sound of or like the exhaust of a steam engine.
> –verb (used without object) 2. to emit or proceed with chuffs: The train
> chuffed along.
> Origin:
> 1910–15; imit.Dictionary.com Unabridged

From -1456820077963934453
X-Google-Thread: 241b302a50,8846f7307d266fc6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-01.dc1.easynews.com.POSTED!not-for-mail
From: John Ferrell <jferrell13@triad.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wireless microphones in the USA
Message-ID: <b9t8m5hr3ml1pc871em3ndlf0h4agkhaem@4ax.com>

```
References: <kMGdnY7NzqPTYPzWnZ2dnUVZ7v6dnZ2d@pipex.net> <c3784e7a-
a9d5-4c2b-9aa3-964005788742@36g2000yqu.googlegroups.com>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 15
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Sat, 30 Jan 2010 13:14:26 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:3092

On Fri, 29 Jan 2010 00:17:42 -0800 (PST), "sohosources@gmail.com"
<sohosources@gmail.com> wrote:

>From what I can tell, churches in the USA that are large enough to
>require wireless mics have PLENTY of money...  :)
>
>--NT0Z

Wireless mic's cost less for us because it takes fewer and requires
zero installation resources. Wireless speakers are on the want list
and wireless mixing board is on the dreaming list.

Modern technology costs less in the long run and most churches have
tight budgets!
John Ferrell W8CCW


From 7928162482867645233
X-Google-Thread: 241b302a50,4ae2ab65f21d3579
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!n7g2000yqb.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: jury rigged vhf receiver
Date: Sat, 30 Jan 2010 14:41:43 -0800 (PST)
Organization: http://groups.google.com
Lines: 42
Message-ID: <b2c48e9b-008a-4b3f-b22a-148b09b6138c@n7g2000yqb.googlegroups.com>
References: <1a8f49b6-0842-4bb8-8f97-683b6631bfdd@o28g2000yqh.googlegroups.com>
     <PJWdnS07ku2NS8HWnZ2dnUVZ_rli4p2d@web-ster.com> <e9ea9721-5666-4716-
a838-8868c65cdfde@c4g2000yqa.googlegroups.com>
     <-vidnTT5kvr3Bf7WnZ2dnUVZ_jli4p2d@web-ster.com>
NNTP-Posting-Host: 75.191.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
```

```
X-Trace: posting.google.com 1264891304 8533 127.0.0.1 (30 Jan 2010 22:41:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 30 Jan 2010 22:41:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n7g2000yqb.googlegroups.com; posting-host=75.191.176.71;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.7)
     Gecko/20091221 Firefox/3.5.7 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3093

On Jan 29, 9:24=A0pm, Tim Wescott <t...@seemywebsite.com> wrote:
> On Fri, 29 Jan 2010 13:07:30 -0800, JIMMIE wrote:
> > On Jan 24, 6:21=A0pm, Tim Wescott <t...@seemywebsite.com> wrote:
> >> On Sat, 23 Jan 2010 14:52:14 -0800, JIMMIE wrote:
> >> > I was wanting to listen to VHF/UHF SSB. All of my present UHF/VHF
> >> > radios are FM. I was thinking of rigging up a simple downconverter
> >> > using a mini circuit mixer and my HP signal generator as the local
> >> > oscilator that I can connect in front of my HF rig. I have an antenn=
a
> >> > mounted pre- amp that I think should suffice for my front end. Any
> >> > foreseeable problems short of keying my transmitter while it is
> >> > connected.
>
> >> > Jimmie
>
> >> Do let us know what you tried, and how it worked.
>
> >> --www.wescottdesign.com
>
> > UPS delivered the mixer yesterday evening but I didnt get to play with
> > it until this AM.Im working evenings. I spent about an hour getting it
> > connected up. There may not have been any SSB activity but I was able t=
o
> > hear all the usual local 2m repeaters using my HF rig set up for 10M FM=
.
>
> > Setup was as about as simple as it gets. With pre- amp at the antenna,
> > antenna , receiver and osc was just connected directly to the mixer wit=
h
> > some small coax alleged to be 50 ohms. At this thime I really cant
> > evaluate it more than that.
>
> The bands always go dead right when you finish a radio.
>
> Keep us posted.
>
> --www.wescottdesign.com

Seems to be overloading a little on strong signals. This is probably
the reason rreal receivers arent quite so simple.

Jimmie
```

```
From -3410543376972398751
X-Google-Thread: 241b302a50,3c99dac3767c27f1,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder3.cambriumusenet.nl!
feed.tweaknews.nl!193.201.147.78.MISMATCH!feeder.news-service.com!
188.40.43.213.MISMATCH!feeder.eternal-september.org!eternal-september.org!.POSTED!
not-for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Items for sale
Date: Sat, 30 Jan 2010 22:41:36 -0600
Organization: A noiseless patient Spider
Lines: 51
Message-ID: <hk31lr$v8r$2@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Sun, 31 Jan 2010 04:41:31 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-host="ilhoh7QFF7KRjlN9xz/
5fw";
     logging-data="32027"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX19xzDY0YWbTYgehDjDTay2o"
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11) Gecko/
20071127 Firefox/2.0.0.11
X-Accept-Language: en-us
Cancel-Lock: sha1:bgaO9L6f0gBhpMrn5uvu3LDKXWQ=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3094

Here is a list of gear I have for sale and the prices
I'm asking as a starting point.

Photos of all can be seen at:

http://home.comcast.net/~hsknoll/site/?/photos/

click on the images to enlarge them.

I can be reached at either wa0goz@arrl.net  or 651-426-4144.  Ask for
Henry.

=======================================
RF Concepts RFC2-117 linear 2M linear amp with receive
pre-amp.  143-149 MHz.  10 W in 170 W out.
$190
=======================================
Millivac Instruments  MV-28B RF Microvoltmeter
BO
=======================================
I have the following General Radio equipment for sale.  All of
```

it is in very good condition and working:

1	874-LB	Slotted Line
1	874-LV	Micrometer for the slotted line
2	874-LTL	Trombone lines
1	874-GA	Adjustable Attenuator
1	874-L30	30 cm Air Line
3	874-L20	20 cm Air Lines
4	874-L10	10 cm Air Lines
1	874-F1000	1000 MHz Low Pass Filter
1	874-L500	500 MHz Low Pass Filter
1	874-D50	50 cm Adjustable Stub
1	874-D50L	50 cm Adjustable Stub
1	874-D20	20 cm Adjustable Stub
2	874-LA	Adjustable Line
5	874-T	Tee's
1	874-EL	Elbow
2	874-K	Coupling Capacitors
5	Small dia. cables -- GR conn.'s on both ends	
2	Small dia. cables -- GR conn. on one end & BNC on other	
1	Small dia. cable -- GR conn. on one end & banana plugs on other	
5	Large dia. cables -- GR conn. on both ends	

Reasonable offer

=======================================

SMA chassis connectors   Reasonable offer

=======================================

SMA to N adapters   Reasonable offer

=======================================

General Radio 1650A   Impedance Bridge   Reasonable offer

From -5077205786161636850
X-Google-Thread: 241b302a50,e0304dcd75a74936
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!postnews.google.com!l13g2000yqb.googlegroups.com!not-for-mail
From: lw1ecp <danyperez1@yahoo.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3:1 range VCO and varactor RF voltage swing
Date: Wed, 25 Nov 2009 22:17:41 -0800 (PST)
Organization: http://groups.google.com
Lines: 20
Message-ID: <a6888c2a-b312-443b-ae70-9af93355b95d@l13g2000yqb.googlegroups.com>
References: <18993b23-0060-4995-9e00-b8a601cbfd0f@j4g2000yqe.googlegroups.com>
<heklq9$2vs$4@news.eternal-september.org> <2f64fde9-0aa1-4305-aa89-9e450e1c1926@e23g2000yqd.googlegroups.com>
<_joPm.78445$Wf2.75107@newsfe23.iad>
NNTP-Posting-Host: 190.139.177.169
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1

```
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1259216261 20210 127.0.0.1 (26 Nov 2009 06:17:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Nov 2009 06:17:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l13g2000yqb.googlegroups.com; posting-host=190.139.177.169;
     posting-account=J2bTrwoAAAA_H4qq0GLh7EO3_dPJZX9j
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; es-AR; rv:1.9.1.5)
     Gecko/20091102 Firefox/3.5.5,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2945
```

I'm astonished at the tsunami of answers this arose!.
- Tim: yes: detector + error amplifier (minimum gain, even a single NPN) + FET bias shifting.
- Bill: I love old ARRL publications, 80's QSTs are my favorites, but 3:1 (continuous) coverage is not common on ham bands. I am looking to build, and design (oh, well, guesstimate).
- Artie and Barry: I knew the heterodyne way of getting broad coverage thanks to the old Wavetek 2000 Sweep/Signal Generator. This is also used in tracking generators for spectrum analyzers. But keeping unwanted mixing products low is an art. Maybe later.
But, the first answer from Tim made me think: what's the difference in amplitude stabilizing methods on a Wien bridge and my Hartley?. In a RC oscillator you control amplitude thru some voltage dependent resistance (a lamp, a FET channel, etc.). But in my oscillator I vary it thru gate bias, which varies the average transconductance of a device working in a (nonlinear) class C. So, I Spice'd a FET damping the coil (source) tap with its Rds being controlled by oscillations amplitude, an voil=E0!, I got ~1Vp-p at the gate (and the varicaps), the gate's 1N4148 almost does not conduct. I will try a more decent of controlling the feedback (without ruining Q) and let you know.

```
From 7133921494406129935
X-Google-Thread: 241b302a50,e0304dcd75a74936
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
feeder3.cambriumusenet.nl!feed.tweaknews.nl!209.197.12.242.MISMATCH!
nx01.iad01.newshosting.com!newshosting.com!216.196.98.140.MISMATCH!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 26 Nov 2009 06:01:31 -0600
Date: Thu, 26 Nov 2009 06:01:09 -0600
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3:1 range VCO and varactor RF voltage swing
References: <18993b23-0060-4995-9e00-b8a601cbfd0f@j4g2000yqe.googlegroups.com>
```

<heklq9$2vs$4@news.eternal-september.org>
In-Reply-To: <heklq9$2vs$4@news.eternal-september.org>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <58-dnewys-e885PWnZ2dnUVZ_hmdnZ2d@giganews.com>
Lines: 35
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-V1wlN6Xj7+GFXESbAqSFglbqfHF66V79Jan10r7jcm6u7uh/
Pp9ywcQa6IkAGO4PHQQxoZdpGWWpXlf!
B5KsvGaf2XklHhYAAfYl9pCDfeVd0p9co6aGHoRFSCzSYxoxnBx5qMbL4Nrs6VsWWz+D8Tbj
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:2946

Bill Baka wrote:
> lw1ecp wrote:
>> Hi!. I need to cover the HF and VHF ranges with as few VCOs as
>> possible. Think of this as the varactor version of the old general
>> purpose RF bench generators or grid-dip-meters. I know the penalties:
>> high phase noise, high drift, high harmonic content. I don't care,
>> this won't be made into a high dynamic range receiver.
>> What I do need is a reliable means to keep the peak-to-peak RF voltage
>> across the varactors (varicaps) below 1 or 0.5Vp-p. Otherwise, even
>> having back-to-back diodes they rectify the RF, create a DC component
>> into the 100k resistor that feeds the tuning voltage, and this
>> dramatically raises the bottom frequency. If I reduce the R, the f
>> goes lower, but the RF is nastily clipped by the diodes.
>> The oscillator is a FET Hartley (no Colpitts capacitive tap in order
>> to maximize C swing). All attempts I made on Spice and in real life to
>> AGC the amplitude always created a low frequency relaxation
>> oscillation.
>> Can anybody tell me about a proven way to accomplish this?. I have
>> already googled a little with no success.
>> Many thanks!
>
> See if you can find any of the old (now) op-amp cook books or general
> applications manuals. I saw one with a modified Wien-bridge that had an
> AGC, but that was in 1975 for a breadboard I was doing.
> Good luck.
> Bill Baka

The old school method - for a wien bridge for example - was to place a small filament bulb in the feedback path. This had a non linear response to amplitude - and a low natural bandwidth.   It's that slow response that you have been lacking, apparently.   Putting together an op amp with variable amplitude output that is smoothed on a five+ second time constant is what you need.

Brian W

From -7065951363737595253
X-Google-Thread: 241b302a50,e0304dcd75a74936
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!
newsfeed2.telusplanet.net!newsfeed.telus.net!news-in-02.newsfeed.easynews.com!
easynews!core-easynews-01!easynews.com!en-nntp-07.dc1.easynews.com.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3:1 range VCO and varactor RF voltage swing
From: Doug White <gwhite@alum.mit.edu>
References: <18993b23-0060-4995-9e00-b8a601cbfd0f@j4g2000yqe.googlegroups.com>
<heklq9$2vs$4@news.eternal-september.org> <2f64fde9-0aa1-4305-aa89-9e450e1c1926@e23g2000yqd.googlegroups.com>
<_joPm.78445$Wf2.75107@newsfe23.iad> <a6888c2a-b312-443b-ae70-9af93355b95d@l13g2000yqb.googlegroups.com>
Message-ID: <Xns9CCF72F62B091gwhitealummitedu@69.16.186.50>
User-Agent: Xnews/5.04.25
Lines: 25
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Thu, 26 Nov 2009 16:18:03 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:2947

lw1ecp <danyperez1@yahoo.com.ar> wrote in news:a6888c2a-b312-443b-ae70-9af93355b95d@l13g2000yqb.googlegroups.com:

<snip>
> - Artie and Barry: I knew the heterodyne way of getting broad coverage
> thanks to the old Wavetek 2000 Sweep/Signal Generator. This is also
> used in tracking generators for spectrum analyzers. But keeping
> unwanted mixing products low is an art. Maybe later.

No big deal. Use two high freqeuncy oscillators (one fixed, one tunable), say around 2 GHz. When you mix them, the difference freqeuncy gives you the low freqeuncy you want, and the sum freqeuncy will be around 4 GHz & easily filtered out. The higher order terms that might be an issue will be things like three times one minus twice the other. A little care with your frequency plan & a good mixer & you should be fine.

There is a free DOS executable mixer spur calculator buried in with the MARTHA/LLAMA APL CAD software: http://www.marthallama.org/
The program is MIXSPUR.EXE, and is included in the LLAMA distribution. It is documented in the LLAMA manual. No APL is required.

If folks are interested, I could put together standalone documentation on MIXSPUR & park it and the executable on my personal website.

Doug White

```
From 3259580281304462935
X-Google-Thread: 241b302a50,e0304dcd75a74936
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l13g2000yqb.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3:1 range VCO and varactor RF voltage swing
Date: Thu, 26 Nov 2009 09:29:17 -0800 (PST)
Organization: http://groups.google.com
Lines: 19
Message-ID: <374e9bf7-ddc2-4c87-8700-feb41b7ce799@l13g2000yqb.googlegroups.com>
References: <18993b23-0060-4995-9e00-b8a601cbfd0f@j4g2000yqe.googlegroups.com>
     <heklq9$2vs$4@news.eternal-september.org> <2f64fde9-0aa1-4305-
aa89-9e450e1c1926@e23g2000yqd.googlegroups.com>
     <_joPm.78445$Wf2.75107@newsfe23.iad> <a6888c2a-b312-443b-
ae70-9af93355b95d@l13g2000yqb.googlegroups.com>
     <Xns9CCF72F62B091gwhitealummitedu@69.16.186.50>
NNTP-Posting-Host: 76.234.153.38
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1259256557 25618 127.0.0.1 (26 Nov 2009 17:29:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Nov 2009 17:29:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l13g2000yqb.googlegroups.com; posting-host=76.234.153.38;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.5)
     Gecko/20091102 Firefox/3.5.5,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2948
```

Hey OM:

Maybe you should looky at an old NTSC tv tuner. The brothers at RCA, made sum tuners for the cable tv bands that went from 5Mhz all the way up to 900Mhz

And they did it with quad matched varicaps, dual gate FET's, and a PLL.

Not only did they control the VCO, but the TRF front end also.

Me thinks your OSC is way to efficient and your Q is way to high. Roll the Q down with the right LC ratio or swamp it with sum resistance.

If you series varicaps you would increase the the amount of RF voltage they could handle before starting to rectifry the RF.

73 OM
de n8zu

```
From 2565976557253267723
X-Google-Thread: 241b302a50,736a05180bd1819b,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
x25g2000prf.googlegroups.com!not-for-mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Simple unregulated switchable dual voltage rectifier circuit
Date: Sat, 28 Nov 2009 21:23:07 -0800 (PST)
Organization: http://groups.google.com
Lines: 13
Message-ID: <e75f2698-6357-4f2b-bdd3-0abf8e23bb0a@x25g2000prf.googlegroups.com>
NNTP-Posting-Host: 219.89.91.152
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1259472188 3387 127.0.0.1 (29 Nov 2009 05:23:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 29 Nov 2009 05:23:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x25g2000prf.googlegroups.com; posting-host=219.89.91.152;
     posting-account=TfKoOgkAAABQzW2yM8tZrYe8S04m-wqP
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2949
```

Hi Guys,

Ages ago I saw a very simple circuit - a CT transformer, couple of
caps, 4 rectifiers and a change over switch.

With the switch in one position, the circuit was a bridge rectifier,
in the other, a voltage doubler.

Pointers please, I have forgotten where I saw this...

Thanks,

Mark

```
From -8757558570556311136
X-Google-Thread: 241b302a50,736a05180bd1819b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
```

Path: g2news1.google.com!postnews.google.com!f20g2000prn.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Simple unregulated switchable dual voltage rectifier circuit
Date: Sat, 28 Nov 2009 23:20:30 -0800 (PST)
Organization: http://groups.google.com
Lines: 32
Message-ID: <c2f021ca-b7bb-4adc-b336-2cb7f9f6b275@f20g2000prn.googlegroups.com>
References: <e75f2698-6357-4f2b-bdd3-0abf8e23bb0a@x25g2000prf.googlegroups.com>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1259479231 26074 127.0.0.1 (29 Nov 2009 07:20:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 29 Nov 2009 07:20:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f20g2000prn.googlegroups.com; posting-host=71.112.191.81;
    posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.5)
    Gecko/20091102 Firefox/3.5.5 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2950

On Nov 28, 9:23=A0pm, MarkAren <markare...@yahoo.com> wrote:

> Hi Guys,
>
> Ages ago I saw a very simple circuit - a CT transformer, couple of
> caps, 4 rectifiers and a change over switch.
>
> With the switch in one position, the circuit was a bridge rectifier,
> in the other, a voltage doubler.
>
> Pointers please, I have forgotten where I saw this...
>
> Thanks,
>
> Mark

Just draw a standard bridge rectifier circuit, bridge across the full transformer secondary, filter capacitor at the bridge output. Now-- break the connection from the capacitor (-) to the bridge, and put in a SPDT switch, wiper to the cap (and to ground, if you will) and the two possible connections to either the bridge negative output, or to the transformer secondary center tap. There's no problem connecting to the transformer center tap with the bridge (-) floating. You can also use this basic circuit to supply two voltages at once: connect up a bridge circuit, and ground the bridge/cap (-), and also put a cap from transformer CT to ground. The bridge output (peak) will be nominally 1.4* the RMS transformer full secondary (minus a couple diode drops), and the CT output will be half that. Or, you can ground the CT and have + and - nominally equal voltages, assuming the loads on both sides are similar.

Cheers,
Tom

From -3442049508634367764
X-Google-Thread: 241b302a50,736a05180bd1819b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!u18g2000pro.googlegroups.com!not-for-mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Simple unregulated switchable dual voltage rectifier circuit
Date: Sun, 29 Nov 2009 00:33:13 -0800 (PST)
Organization: http://groups.google.com
Lines: 8
Message-ID: <c2f6e668-83b7-4123-bde6-8a7b59805d72@u18g2000pro.googlegroups.com>
References: <e75f2698-6357-4f2b-bdd3-0abf8e23bb0a@x25g2000prf.googlegroups.com>
     <c2f021ca-b7bb-4adc-b336-2cb7f9f6b275@f20g2000prn.googlegroups.com>
NNTP-Posting-Host: 219.89.91.152
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1259483593 19267 127.0.0.1 (29 Nov 2009 08:33:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 29 Nov 2009 08:33:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u18g2000pro.googlegroups.com; posting-host=219.89.91.152;
     posting-account=TfKoOgkAAABQzW2yM8tZrYe8S04m-wqP
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2951

Bingo !

http://www.idesignz.org/misc/Simple%20dual%20voltage%20PSU.pdf

Thanks,

Mark

From -3624570206698670661
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
newsfeed.xs4all.nl!newsfeed6.news.xs4all.nl!xs4all!newsgate.cistron.nl!
newsgate.news.xs4all.nl!post2.news.xs4all.nl!newszilla.xs4all.nl!not-for-mail
From: Joop <jojo@xs4all.nl>
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Re: Simple unregulated switchable dual voltage rectifier circuit
Date: Sun, 29 Nov 2009 14:54:36 +0100
Message-ID: <94v4h59glecttmo38eoh0dcucvroa5e2vb@4ax.com>
References: <e75f2698-6357-4f2b-bdd3-0abf8e23bb0a@x25g2000prf.googlegroups.com>
<c2f021ca-b7bb-4adc-b336-2cb7f9f6b275@f20g2000prn.googlegroups.com>
<c2f6e668-83b7-4123-bde6-8a7b59805d72@u18g2000pro.googlegroups.com>
X-Newsreader: Forte Agent 2.0/32.652
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 16
NNTP-Posting-Host: 62.194.177.153
X-Trace: 1259502876 dreader24.news.xs4all.nl 17754 lous/
[::ffff:62.194.177.153]:1556
Xref: g2news1.google.com rec.radio.amateur.homebrew:2952

On Sun, 29 Nov 2009 00:33:13 -0800 (PST), MarkAren
<markaren10@yahoo.com> wrote:

>Bingo !
>
>http://www.idesignz.org/misc/Simple%20dual%20voltage%20PSU.pdf
>
>Thanks,
>
>Mark
This is a circuit that does not suffer from temporary abcense of power
during switching. And it is using a transformer with a single
secundary winding.
http://www.gigawatts.nl/co/projects/voeding/dubbel/switch.jpg

Joop


From -6208214413542680949
X-Google-Thread: 241b302a50,736a05180bd1819b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!r24g2000prf.googlegroups.com!not-for-
mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Simple unregulated switchable dual voltage rectifier circuit
Date: Sun, 29 Nov 2009 09:42:40 -0800 (PST)
Organization: http://groups.google.com
Lines: 30
Message-ID: <615ac667-bfe0-4022-8842-52927416a55f@r24g2000prf.googlegroups.com>
References: <e75f2698-6357-4f2b-bdd3-0abf8e23bb0a@x25g2000prf.googlegroups.com>
     <c2f021ca-b7bb-4adc-b336-2cb7f9f6b275@f20g2000prn.googlegroups.com>
     <c2f6e668-83b7-4123-bde6-8a7b59805d72@u18g2000pro.googlegroups.com>
     <94v4h59glecttmo38eoh0dcucvroa5e2vb@4ax.com>
NNTP-Posting-Host: 219.89.91.152
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1259516561 16809 127.0.0.1 (29 Nov 2009 17:42:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 29 Nov 2009 17:42:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r24g2000prf.googlegroups.com; posting-host=219.89.91.152;
     posting-account=TfKoOgkAAABQzW2yM8tZrYe8S04m-wqP
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2953

Hi Joop,

Interesting circuit.

Where does the R1/D1/Q/.Q2 reference point connect to ?

I assume the parasitic diodes in Q1/Q2 form a current path ?

-Mark


On Nov 30, 2:54=A0am, Joop <j...@xs4all.nl> wrote:
> On Sun, 29 Nov 2009 00:33:13 -0800 (PST), MarkAren
>
> <markare...@yahoo.com> wrote:
> >Bingo !
>
> >http://www.idesignz.org/misc/Simple%20dual%20voltage%20PSU.pdf
>
> >Thanks,
>
> >Mark
>
> This is a circuit that does not suffer from temporary abcense of power
> during switching. And it is using a transformer with a single
> secundary winding.http://www.gigawatts.nl/co/projects/voeding/dubbel/swit=
ch.jpg
>
> Joop



From 2048838986276375795
X-Google-Thread: 241b302a50,736a05180bd1819b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!s21g2000prm.googlegroups.com!not-for-
mail
```

From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Simple unregulated switchable dual voltage rectifier circuit
Date: Sun, 29 Nov 2009 12:27:36 -0800 (PST)
Organization: http://groups.google.com
Lines: 32
Message-ID: <986633c0-92dc-4b07-a3d7-67f67c3c8968@s21g2000prm.googlegroups.com>
References: <e75f2698-6357-4f2b-bdd3-0abf8e23bb0a@x25g2000prf.googlegroups.com>
     <c2f021ca-b7bb-4adc-b336-2cb7f9f6b275@f20g2000prn.googlegroups.com>
     <c2f6e668-83b7-4123-bde6-8a7b59805d72@u18g2000pro.googlegroups.com>
     <94v4h59glecttmo38eoh0dcucvroa5e2vb@4ax.com> <615ac667-bfe0-4022-8842-52927416a55f@r24g2000prf.googlegroups.com>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1259526456 9716 127.0.0.1 (29 Nov 2009 20:27:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 29 Nov 2009 20:27:36 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s21g2000prm.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.5)
     Gecko/20091102 Firefox/3.5.5 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2954

On Nov 29, 9:42=A0am, MarkAren <markare...@yahoo.com> wrote:
> Hi Joop,
>
> Interesting circuit.
>
> Where does the R1/D1/Q/.Q2 reference point connect to ?
>
> I assume the parasitic diodes in Q1/Q2 form a current path ?
>
> -Mark
...

The idea is that by using two MOSFETs in (anti)series like that, the parasitic diodes can't conduct through from q1.drain to q2.drain. However, they (the parasitic diodes) insure that q1.source=3Dq2.source is at most a diode drop higher than the lower of q1.drain and q2.drain. Then if the photocoupler is "on", the gates are pulled up toward close to the most positive voltage in the circuit, limited of course by the zener diode to protect against gate-source breakdown. In that state, both Q1 and Q2 are hard on. They are happy to conduct as "on" FETs in either direction. If the photocoupler is "off," the gate-source potential drops to essentially zero, and both FETs are off, leaving only the back-to-back parasitic diodes.

Essentially the same circuit is used in certain optically coupled relays, such as the Panasonic "PhotoMOS" relays, and in other places.

Although the "on" resistance is twice as high as a single MOSFET of
the same type, the circuit blocks both polarities when "off," and
conducts either direction when "on."

Cheers,
Tom

```
From -9020477331879379246
X-Google-Thread: 241b302a50,736a05180bd1819b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!u25g2000prh.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Simple unregulated switchable dual voltage rectifier circuit
Date: Sun, 29 Nov 2009 12:31:19 -0800 (PST)
Organization: http://groups.google.com
Lines: 28
Message-ID: <060c16a3-1666-453f-9251-85b3925b0f08@u25g2000prh.googlegroups.com>
References: <e75f2698-6357-4f2b-bdd3-0abf8e23bb0a@x25g2000prf.googlegroups.com>
     <c2f021ca-b7bb-4adc-b336-2cb7f9f6b275@f20g2000prn.googlegroups.com>
     <c2f6e668-83b7-4123-bde6-8a7b59805d72@u18g2000pro.googlegroups.com>
     <94v4h59glecttmo38eoh0dcucvroa5e2vb@4ax.com>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1259526680 11113 127.0.0.1 (29 Nov 2009 20:31:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 29 Nov 2009 20:31:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u25g2000prh.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.5)
     Gecko/20091102 Firefox/3.5.5 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2955
```

```
On Nov 29, 5:54=A0am, Joop <j...@xs4all.nl> wrote:
> On Sun, 29 Nov 2009 00:33:13 -0800 (PST), MarkAren
>
> <markare...@yahoo.com> wrote:
> >Bingo !
>
> >http://www.idesignz.org/misc/Simple%20dual%20voltage%20PSU.pdf
>
> >Thanks,
>
> >Mark
>
```

> This is a circuit that does not suffer from temporary abcense of power
> during switching. And it is using a transformer with a single
> secundary winding.http://www.gigawatts.nl/co/projects/voeding/dubbel/swit=
ch.jpg
>
> Joop

But should note that it puts out twice the voltage from the same transformer as compared with the bridge/CT circuit. On the other hand, both voltages use the whole secondary, so the safe available output power is nominally the same for either voltage, whereas the output power in the full-wave CT circuit is somewhat less than in the bridge configuration (assuming negligible loss in the diodes).

Cheers,
Tom

From 4766003643935743178
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
v25g2000yqk.googlegroups.com!not-for-mail
From: lw1ecp <danyperez1@yahoo.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3:1 range VCO and varactor RF voltage swing
Date: Sun, 29 Nov 2009 18:07:04 -0800 (PST)
Organization: http://groups.google.com
Lines: 31
Message-ID: <fb6423b5-464a-44cf-aa3e-7c9fc9d1177f@v25g2000yqk.googlegroups.com>
References: <18993b23-0060-4995-9e00-b8a601cbfd0f@j4g2000yqe.googlegroups.com>
     <heklq9$2vs$4@news.eternal-september.org> <2f64fde9-0aa1-4305-
aa89-9e450e1c1926@e23g2000yqd.googlegroups.com>
     <_joPm.78445$Wf2.75107@newsfe23.iad> <a6888c2a-b312-443b-
ae70-9af93355b95d@l13g2000yqb.googlegroups.com>
     <Xns9CCF72F62B091gwhitealummitedu@69.16.186.50> <374e9bf7-ddc2-4c87-8700-
feb41b7ce799@l13g2000yqb.googlegroups.com>
NNTP-Posting-Host: 190.139.177.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1259546824 23269 127.0.0.1 (30 Nov 2009 02:07:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 30 Nov 2009 02:07:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v25g2000yqk.googlegroups.com; posting-host=190.139.177.81;
     posting-account=J2bTrwoAAAA_H4qq0GLh7EO3_dPJZX9j
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; es-AR; rv:1.9.1.5)
     Gecko/20091102 Firefox/3.5.5,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2956

Raypsi:
- Thank you for the hint, the CATV tuners cover 54 to 900 MHz (5 to ~40 is for the upstream), an impressive 16:1 range, but the L.O. is

much narrower in relative values. Suppose 1st IF at 1200MHz, the L.O.
would sweep 1254 to 2100, 1.67:1, not enough for me.
- "The TRF front end also". Are you sure?. I dismantled a Jerrold and
the incoming CATV hit directly the balanced modulator thru a fixed
high-pass. But even if it really tuned 54-900, it would be easier than
my needs because the CATV amplitude is much lower than in an
oscillator.
- "Roll the Q down"?. It wouldn't help, I just need to vary 9:1 the LC
product.
- "Series varicaps"?. Sorry... they are back-to-back in series
already!.
Doug:
Thank you for encouraging me about the heterodyne way, and the links.
Yes, I think I will go this way for my gen-purp lab generator, but for
the dipper I still need the coil to oscillate right at the measured
frequency.
Brian:
I'm afraid this is more complicated than choosing a long time
constant, I have already tried in the simulation. The problem seems to
stem from the fact that the effective FET gm is dependent not only on
applied bias but also on RF amplitude. The error amplifier senses the
amplitude is high, applies more -Vgs, gm decreases, amplitude
decreases, but this lower amplitude makes effective gm to fall even
more, and as a result oscillation ceases and then starts again, and
again, and again. I think I will have to prevent the FET from working
in class C and forget about Vgs as a control means.
Again, many thanks to all of you. As soon as I can come back to this
subject I will let you know the results.

From -8578550847349716525
X-Google-Thread: 241b302a50,736a05180bd1819b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!j24g2000yqa.googlegroups.com!not-for-mail
From: lw1ecp <danyperez1@yahoo.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Simple unregulated switchable dual voltage rectifier circuit
Date: Sun, 29 Nov 2009 18:39:55 -0800 (PST)
Organization: http://groups.google.com
Lines: 22
Message-ID: <c133c287-699d-4b35-832d-bb914a9e702b@j24g2000yqa.googlegroups.com>
References: <e75f2698-6357-4f2b-bdd3-0abf8e23bb0a@x25g2000prf.googlegroups.com>
<c2f021ca-b7bb-4adc-b336-2cb7f9f6b275@f20g2000prn.googlegroups.com>
<c2f6e668-83b7-4123-bde6-8a7b59805d72@u18g2000pro.googlegroups.com>
<94v4h59glecttmo38eoh0dcucvroa5e2vb@4ax.com>
<060c16a3-1666-453f-9251-85b3925b0f08@u25g2000prh.googlegroups.com>
NNTP-Posting-Host: 190.139.177.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1259548795 1396 127.0.0.1 (30 Nov 2009 02:39:55 GMT)

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 30 Nov 2009 02:39:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j24g2000yqa.googlegroups.com; posting-host=190.139.177.81;
     posting-account=J2bTrwoAAAA_H4qq0GLh7EO3_dPJZX9j
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; es-AR; rv:1.9.1.5)
     Gecko/20091102 Firefox/3.5.5,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2957
```

The idea behind www.gigawatts.nl/co/projects/voeding/dubbel/switch.jpg
is the same as the PC PSUs: you close a connection and it works on
115Vac, you open it and plug the PSU into 230V.

And if you go as in www.idesignz.org/misc/Simple%20dual%20voltage%20PSU.pdf
you're right that the full-wave center-tap mode does not make full use
of the transformer copper (by the way, just adding an electrolytic on
the center-tap in place of the switch you can have the two output
voltages simultaneously). It's unavoidable, unless wou have two
independent secondaries, of course: put both in series or both in
parallel.

But if you are looking for having two different output voltages (not
same DC voltage with 115 or 230 mains), and want to make the best use
of your electrolytics (specially if they are big ones), you should
need a means to put them in parallel for the low setting, and series
for the high. I did it with a DPDT non-shortcircuiting switch. No
center-tap (becomes a full-wave doubler as in the gigawatts link). If
you are interested I will gladly send it to your address, but you can
help me and the Group if you can suggest a convenient way to post
files somewhere (not a volatile place such as rapidshare).

```
From 3626468224317737942
X-Google-Thread: 241b302a50,e0304dcd75a74936
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 29 Nov 2009 22:33:30 -0600
Date: Sun, 29 Nov 2009 22:32:22 -0600
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3:1 range VCO and varactor RF voltage swing
References: <18993b23-0060-4995-9e00-b8a601cbfd0f@j4g2000yqe.googlegroups.com>
     <heklq9$2vs$4@news.eternal-september.org> <2f64fde9-0aa1-4305-
aa89-9e450e1c1926@e23g2000yqd.googlegroups.com>
```

```
<_joPm.78445$Wf2.75107@newsfe23.iad> <a6888c2a-b312-443b-
ae70-9af93355b95d@l13g2000yqb.googlegroups.com>
<Xns9CCF72F62B091gwhitealummitedu@69.16.186.50> <374e9bf7-ddc2-4c87-8700-
feb41b7ce799@l13g2000yqb.googlegroups.com> <fb6423b5-464a-44cf-
aa3e-7c9fc9d1177f@v25g2000yqk.googlegroups.com>
In-Reply-To: <fb6423b5-464a-44cf-aa3e-7c9fc9d1177f@v25g2000yqk.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <YP6dnfeLiv-G1o7WnZ2dnUVZ_qJi4p2d@giganews.com>
Lines: 12
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-JvZ6HWBxuTuAwiTJgscNq3lQ/
kHiRFSZNZMyERGx0vQKGvj6C0jlXL5OHZtvQBbin2A72eIPcwU1XX/!
UxlNnKscJWcxCbim5QZJMXYQ30aLred3wudayFESye2qZge6kYJ+xEuwyB7TA1oHDulBdNrM
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:2958

lw1ecp wrote:
/snip/
> - "Series varicaps"?. Sorry... they are back-to-back in series
> already!.
>

I understood the suggestion was to place two varicaps in series
NOT back to back in order to extend the voltage range.
But that implies two series strings, in order to maintain the
capacitance range over a longer voltage swing??

Brian W



From -3566061955243756666
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!k19g2000yqc.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3:1 range VCO and varactor RF voltage swing
Date: Mon, 30 Nov 2009 04:38:42 -0800 (PST)
Organization: http://groups.google.com
Lines: 40
Message-ID: <79ffaffd-4c40-4b82-be11-602bb4a843bb@k19g2000yqc.googlegroups.com>
References: <18993b23-0060-4995-9e00-b8a601cbfd0f@j4g2000yqe.googlegroups.com>
     <heklq9$2vs$4@news.eternal-september.org> <2f64fde9-0aa1-4305-
aa89-9e450e1c1926@e23g2000yqd.googlegroups.com>
     <_joPm.78445$Wf2.75107@newsfe23.iad> <a6888c2a-b312-443b-
ae70-9af93355b95d@l13g2000yqb.googlegroups.com>
     <Xns9CCF72F62B091gwhitealummitedu@69.16.186.50> <374e9bf7-ddc2-4c87-8700-
```

```
feb41b7ce799@l13g2000yqb.googlegroups.com>
     <fb6423b5-464a-44cf-aa3e-7c9fc9d1177f@v25g2000yqk.googlegroups.com>
     <YP6dnfeLiv-G1o7WnZ2dnUVZ_qJi4p2d@giganews.com>
NNTP-Posting-Host: 76.226.209.140
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1259584722 24964 127.0.0.1 (30 Nov 2009 12:38:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 30 Nov 2009 12:38:42 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k19g2000yqc.googlegroups.com; posting-host=76.226.209.140;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
     Trident/4.0; GTB6),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2959
```

Hey OM:

Well the dual gate FET's RCA was using were sub 1Ghz range so not only
were they controlling the bias, also they controled the miller effect
with an isolated supply for the second gate.

I should has ment 50Mhz to 900Mhz it was the splitters we used were
rated 5Mhz to 900Mhz.

So 8 varicaps in back to back series would be to much? Giving you
double the voltage and the same C.
You may be right 54Vdc would be way too much to have floating around
to tune them.
I remember the ones RCA used were so small if you dropped one on the
floor you would never ever find it.

They diode switched in 2 sets of coils in both the OSC and TRF, to get
LO VHF, HI VHF, and UHF.
So like they had 3 coils in series, all 3 for the LO, 2 for the HI,
and 1 for the UHF

73 OM
de n8zu

On Nov 29, 11:32=A0pm, brian whatcott <betw...@sbcglobal.net> wrote:
> lw1ecp wrote:
>
> /snip/
>
> > - "Series varicaps"?. Sorry... they are back-to-back in series
> > already!.
>
> I understood the suggestion was to place two varicaps in series
> NOT back to back in order to extend the voltage range.

> But that implies two series strings, in order to maintain the
> capacitance range over a longer voltage swing??
>
> Brian W

From 8914072721356893468
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1257058800@panix.com>
Followup-To: poster
Date: 1 Dec 2009 02:00:08 -0500
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Jan 2010 02:00:00 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1259650800@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1259650808 6024 166.84.1.2 (1 Dec 2009 07:00:08 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 1 Dec 2009 07:00:08 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Xref: g2news1.google.com rec.radio.amateur.antenna:13894 rec.radio.amateur.dx:505
rec.radio.amateur.equipment:1657 rec.radio.amateur.homebrew:2960
rec.radio.amateur.misc:4448 rec.radio.amateur.policy:24491
rec.radio.amateur.space:291 rec.radio.info:1072

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader
opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/
d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.

From -3102889753488597296
X-Google-Thread: 241b302a50,e0304dcd75a74936
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!1g2000vbm.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3:1 range VCO and varactor RF voltage swing
Date: Wed, 2 Dec 2009 05:58:29 -0800 (PST)
Organization: http://groups.google.com
Lines: 13
Message-ID: <40b6ddcc-b3be-4c7f-a8b9-c989c4ea182b@1g2000vbm.googlegroups.com>
References: <18993b23-0060-4995-9e00-b8a601cbfd0f@j4g2000yqe.googlegroups.com>
     <heklq9$2vs$4@news.eternal-september.org> <2f64fde9-0aa1-4305-

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aa89-9e450e1c1926@e23g2000yqd.googlegroups.com>
     <_joPm.78445$Wf2.75107@newsfe23.iad> <a6888c2a-b312-443b-
ae70-9af93355b95d@l13g2000yqb.googlegroups.com>
     <Xns9CCF72F62B091gwhitealummitedu@69.16.186.50> <374e9bf7-ddc2-4c87-8700-
feb41b7ce799@l13g2000yqb.googlegroups.com>
     <fb6423b5-464a-44cf-aa3e-7c9fc9d1177f@v25g2000yqk.googlegroups.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1259762309 2440 127.0.0.1 (2 Dec 2009 13:58:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 2 Dec 2009 13:58:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 1g2000vbm.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
     AppleWebKit/532.0 (KHTML, like Gecko) Chrome/3.0.195.33 Safari/
532.0,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2961
```

On Nov 29, 9:07=A0pm, lw1ecp <danyper...@yahoo.com.ar> wrote:

> Raypsi:
> - Thank you for the hint, the CATV tuners cover 54 to 900 MHz (5 to
> ~40 is for the upstream), an impressive 16:1 range, but the L.O. is
> much narrower in relative values. Suppose 1st IF at 1200MHz, the L.O.
> would sweep 1254 to 2100, 1.67:1, not enough for me.

I think maybe you're looking at the wrong generation of CATV tuners. I think Raypsi's suggestion was for the little tin-can tuners common in say 80's and 90's VCR's, these certainly did NOT have a 1200MHz IF, closer to 45MHz.

Tim.

```
From 3653929838839018296
X-Google-Thread: 241b302a50,e0304dcd75a74936
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!p23g2000vbl.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3:1 range VCO and varactor RF voltage swing
Date: Wed, 2 Dec 2009 06:03:59 -0800 (PST)
Organization: http://groups.google.com
Lines: 24
Message-ID: <5a774f5a-4b73-4660-b277-916de5b90200@p23g2000vbl.googlegroups.com>
References: <18993b23-0060-4995-9e00-b8a601cbfd0f@j4g2000yqe.googlegroups.com>
NNTP-Posting-Host: 170.121.14.12
```

Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1259762639 4312 127.0.0.1 (2 Dec 2009 14:03:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 2 Dec 2009 14:03:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p23g2000vbl.googlegroups.com; posting-host=170.121.14.12;
 posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
 AppleWebKit/532.0 (KHTML, like Gecko) Chrome/3.0.195.33 Safari/
532.0,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2962

On Nov 25, 8:10=A0pm, lw1ecp <danyper...@yahoo.com.ar> wrote:
> Hi!. I need to cover the HF and VHF ranges with as few VCOs as
> possible. Think of this as the varactor version of the old general
> purpose RF bench generators or grid-dip-meters. I know the penalties:
> high phase noise, high drift, high harmonic content. I don't care,
> this won't be made into a high dynamic range receiver.
> What I do need is a reliable means to keep the peak-to-peak RF voltage
> across the varactors (varicaps) below 1 or 0.5Vp-p.

Look at the Elecraft K2's VCO. A single VCO covers all the HF bands
(some with up and others with downconversion), with many narrow ranges
all cleverly switched using small relays to move the varactors/fixed
capacitors in and out. I can't promise that this is exactly what you
want but there's much to be learned by studying it if you want to
build wide-range VCO's with commodity parts.

The Elecraft K2 VCO also uses a clever scheme to do AGC such that the
VCO output remains constant through its wide range, this probably also
keeps the RF voltage across the varicap in check.

There's a lot of cleverness in the K2. Schematics are online, www.elecraft.=
com.

Tim N3QE

From 2786241336031316264
X-Google-Thread: 241b302a50,e0304dcd75a74936
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
188.40.43.213.MISMATCH!feeder.eternal-september.org!eternal-september.org!not-for-
mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3:1 range VCO and varactor RF voltage swing
Date: Thu, 3 Dec 2009 09:58:20 +0000

Organization: A noiseless patient Spider
Lines: 62
Message-ID: <Qut$aTK8u4FLFw$9@g3ohx.demon.co.uk>
References: <18993b23-0060-4995-9e00-b8a601cbfd0f@j4g2000yqe.googlegroups.com>
 <heklq9$2vs$4@news.eternal-september.org>
 <2f64fde9-0aa1-4305-aa89-9e450e1c1926@e23g2000yqd.googlegroups.com>
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 <Xns9CCF72F62B091gwhitealummitedu@69.16.186.50>
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X-Trace: news.eternal-september.org
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X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Thu, 3 Dec 2009 09:58:26 +0000 (UTC)
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Xref: g2news1.google.com rec.radio.amateur.homebrew:2963

In message
<40b6ddcc-b3be-4c7f-a8b9-c989c4ea182b@1g2000vbm.googlegroups.com>, Tim
Shoppa <shoppa@trailing-edge.com> writes
>On Nov 29, 9:07�pm, lw1ecp <danyper...@yahoo.com.ar> wrote:
>> Raypsi:
>> - Thank you for the hint, the CATV tuners cover 54 to 900 MHz (5 to
>> ~40 is for the upstream), an impressive 16:1 range, but the L.O. is
>> much narrower in relative values. Suppose 1st IF at 1200MHz, the L.O.
>> would sweep 1254 to 2100, 1.67:1, not enough for me.
>
>I think maybe you're looking at the wrong generation of CATV tuners. I
>think Raypsi's suggestion was for the little tin-can tuners common in
>say 80's and 90's VCR's, these certainly did NOT have a 1200MHz IF,
>closer to 45MHz.
>
In the 1980s and 90s, I was intimately involved in many types of CATV set-top boxes from one manufacturer. I would have thought that, even after 10 years, I would remember to the nearest Hz what the oscillator and IF frequencies were - but I'm afraid I can't!

However, the general plan was essentially that entire input spectrum was bandpass filtered (via a cascaded highpass and lowpass filter), and presented to a 4-diode ring double-balanced mixer. I'm pretty certain that one model (50 to 550MHz) had a first IF at around 650MHz, with the LO running from 700 to 1200MHz. This was then down-converted to a second IF - the usual 45.75MHz (for NTSC).

It was fairly obvious that you could make a wide-range variable oscillator (say 0 to 500MHz) by 'reversing things', using a variable oscillator (a readily achievable 650MHz to 1150MHz), and mixing it with a fixed oscillator on 650MHz. The output of the double balanced mixer is taken from the IF port, which (of course) goes down to DC, and is lowpass filtered to 500MHz. As has been stated, this is essentially the principle used by many sweep oscillators.

For most 'amateur' purposes, there is no need to have any ALC applied to the output signal. This is achieved by ensuring that the level of the variable oscillator is relatively high (say 66dBmV or 2V), and that of the fixed oscillator is relatively low (say 0.3V or 50dBmV). A normal feature of a ring mixer is that the 'signal' loss through the mixer (typically 6dB) is more-or-less independent of level of the local oscillator - provided it is high enough. This means that, even if the level of the variable oscillator varies by a few dB across its tuning range (which it is bound to do), the mixer output level stays fairly constant 44dBmV or around 0.15V) over the entire frequency range.

But things are not perfect. Unfortunately, in the mixer, you inevitably get mixing of the harmonics of two oscillators. The effect is to produce unexpected signals within the wanted band 0 to 500MHz (and greatly dependant on the actual frequency of the variable oscillator). I know of one commercial sweep oscillator which had, at the LF end of the band, several unwanted mixer products only 25dB down. But it was still quite usable for most lab purposes, provided you knew of its limitations. The cure for this inherent problem is to have the frequencies of both the fixed and variable oscillators as high as possible (not as stated above), but this obviously makes amateur construction more difficult.

Once you have made a satisfactory wide range oscillator, it is very easy to convert it to a sweep generator by driving the varicap of the variable oscillator from a sawtooth.

--
Ian

From -4496639747854331178
X-Google-Thread: 241b302a50,e0304dcd75a74936
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!h10g2000vbm.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3:1 range VCO and varactor RF voltage swing
Date: Thu, 3 Dec 2009 05:42:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 55
Message-ID: <cc82315f-6405-4acd-8728-78fb5763000e@h10g2000vbm.googlegroups.com>
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X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
     AppleWebKit/532.0 (KHTML, like Gecko) Chrome/3.0.195.33 Safari/
532.0,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2964
```

On Dec 3, 4:58=A0am, Ian Jackson
<ianREMOVETHISjack...@g3ohx.demon.co.uk> wrote:
> In message
> <40b6ddcc-b3be-4c7f-a8b9-c989c4ea1...@1g2000vbm.googlegroups.com>, TimSho=
ppa<sho...@trailing-edge.com> writes
>
> In the 1980s and 90s, I was intimately involved in many types of CATV
> set-top boxes from one manufacturer. I would have thought that, even
> after 10 years, I would remember to the nearest Hz what the oscillator
> and IF frequencies were - but I'm afraid I can't!
>
> However, the general plan was essentially that entire input spectrum was
> bandpass filtered (via a cascaded highpass and lowpass filter), and
> presented to a 4-diode ring double-balanced mixer. I'm pretty certain
> that one model (50 to 550MHz) had a first IF at around 650MHz, with the
> LO running from 700 to 1200MHz. This was then down-converted to a second
> IF - the usual 45.75MHz (for NTSC).

All I know about the little tin-can tuners made by the billions in the 80's and 90's, is that antenna comes in one end, circa 45MHz IF came out the other end :-). Maybe the ones I saw were not the DC-to-daylight ones used for CATV. The generation I'm most familiar with took a tuning voltage that went up to 30V or 40VDC for the varactors, maybe that high voltage gave them a wider range with simpler circuitry. Of course the line-operated ones had that high voltage around for easy use in the chassis.

> For most 'amateur' purposes, there is no need to have any ALC applied to
> the output signal.

Look at the Elecraft K2's LO system. It uses a single VCO to cover all bands, and one relevant factor that lets them use the same oscillator for all bands is the ALC. It's a very very clever design, one that minimizes not only parts count but the low parts count also means low power consumption (less than 200mA for the whole rig in receive.)

Contrast that with, say, modern Japanese HF transceivers which draw ten times as much power in receive and have these ginormously complicated multi-loop synthesizers that in the end have worse phase noise than the K2's simple scheme.

My gut feeling is that the Japanese rig philosophy of making sure their receivers do DC to daylight drives up their parts count enormously with no benefit (perhaps a negative effect) on ham band performance. Maybe that's what the Japanese hams want. Heck, it's probably what most US hams think they want, if for no other reason than because the YaeKenCom ads have been pushing it as a feature (not a bug) for decades, at least as long as they've been doing upconversion ham receivers.

Of course the K2 does so well in comparison because it applies the ham-band performance simplicity philosophy not just to the LO chain but throughout.

Tim N3QE

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news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
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From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Nice project cases (cheap)
Date: Fri, 4 Dec 2009 17:46:06 -0600
X-Priority: 3
X-MSMail-Priority: Normal
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Message-ID: <d94bc$4b199f3d$18ec6dd7$20807@KNOLOGY.NET>
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Lines: 11
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Xref: g2news1.google.com rec.radio.amateur.homebrew:2965
sci.electronics.design:126878
```

I was looking on ebay and these cases were at the bottom of the page.
Extruded Aluminum Cases 8" x 7.25" x 1.625"
$3.00 Can't beat that price!
I don't know anything more about it, just ran across it.

http://cgi.ebay.com/Extruded-Aluminum-Cases-8-x-7-25-x-1-625-w-End-Caps_W0QQitemZ220456768844QQcategoryZ42886QQcmdZViewItemQQ_trksidZp4340.m8QQ_trkparmsZalgo%3DMW%26its%3DC%26itu%3DUCC%26otn%3D5%26ps%3D63

Mike

From 3612625999823832267
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From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Nice project cases (cheap)
Date: Sat, 05 Dec 2009 11:24:06 -0500
Organization: A noiseless patient Spider
Lines: 14
Message-ID: <hfe1ev$lfl$1@news.eternal-september.org>
References: <d94bc$4b199f3d$18ec6dd7$20807@KNOLOGY.NET>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:2966 sci.electronics.design:127044

amdx wrote:
>   I was looking on ebay and these cases were at the bottom of the page.
> Extruded Aluminum Cases 8" x 7.25" x 1.625"
> $3.00 Can't beat that price!
> I don't know anything more about it, just ran across it.
>
> http://cgi.ebay.com/Extruded-Aluminum-Cases-8-x-7-25-x-1-625-w-End-

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>
>                                    Mike
>
>
>
Price is nice, but shipping is more than double the cost.
Then again, if you buy a few the cost of shipping per item will go down.


From 1763820713128802335
X-Google-Thread: 241b302a50,b1c24ba125659426,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
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Path: g2news1.google.com!postnews.google.com!33g2000vbe.googlegroups.com!not-for-
mail
From: Harv <harvw@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Communications Quarterly
Date: Sat, 5 Dec 2009 16:13:24 -0800 (PST)
Organization: http://groups.google.com
Lines: 9
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Xref: g2news1.google.com rec.radio.amateur.homebrew:2967

I am looking for issues of Communications Quarterly Magazine for the
years 1992 and 1993 (4 issues each year).

Does anyone have them in either hard copy or .pdf file?

Thanks

Harv
W1BMY


From 1296098509963421120
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
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newsfeed.straub-nv.de!feeder.eternal-september.org!eternal-september.org!not-for-mail
From: Bill Baka <bbaka@comcast.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Nice project cases (cheap)
Date: Sat, 05 Dec 2009 18:18:17 -0800
Organization: A noiseless patient Spider
Lines: 27
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X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Sun, 6 Dec 2009 02:18:20 +0000 (UTC)
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Xref: g2news1.google.com rec.radio.amateur.homebrew:2968
sci.electronics.design:127217

Kenneth Scharf wrote:
> amdx wrote:
>>   I was looking on ebay and these cases were at the bottom of the page.
>> Extruded Aluminum Cases 8" x 7.25" x 1.625"
>> $3.00 Can't beat that price!
>> I don't know anything more about it, just ran across it.
>>
>> http://cgi.ebay.com/Extruded-Aluminum-Cases-8-x-7-25-x-1-625-w-End-
Caps_W0QQitemZ220456768844QQcategoryZ42886QQcmdZViewItemQQ_trksidZp4340.m8QQ_trkpa
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>>
>>
>>   Mike
>>
>>
>>
> Price is nice, but shipping is more than double the cost.
> Then again, if you buy a few the cost of shipping per item will go down.

How about free?
Go to any grocery store and buy something you want to eat in a can that
has the press on lid. Small ones about the size of Sardine cans make for
small and sensitive projects, and you can put these into an even bigger
can for a project. R.F. feed-throughs are not that expensive.
You could make a modular project you could upgrade when you wanted.
Cheers,

Bill Baka

I kind of miss all the old BUD boxes.

```
From -3755790636412160743
X-Google-Thread: 1617473143,2d83efd747d07d72
X-Google-Attributes: gid1617473143,public,usenet
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From: Highlandham <highlandham_nospam@rfburns.com>
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Subject: Re: Nice project cases (cheap)
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<hfe1ev$lfl$1@news.eternal-september.org> <hff49b$1kj$1@news.eternal-
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
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Xref: g2news1.google.com rec.radio.amateur.homebrew:2969
sci.electronics.design:127288

Bill Baka wrote:
> Kenneth Scharf wrote:
>> amdx wrote:
>>>   I was looking on ebay and these cases were at the bottom of the page.
>>> Extruded Aluminum Cases 8" x 7.25" x 1.625"
>>>  $3.00 Can't beat that price!
>>> I don't know anything more about it, just ran across it.
>>>
>>> http://cgi.ebay.com/Extruded-Aluminum-Cases-8-x-7-25-x-1-625-w-End-
Caps_W0QQitemZ220456768844QQcategoryZ42886QQcmdZViewItemQQ_trksidZp4340.m8QQ_trkpa
```

```
rmsZalgo%3DMW%26its%3DC%26itu%3DUCC%26otn%3D5%26ps%3D63
>>>
>>>
>>>                                    Mike
>>>
>>>
>>>
>> Price is nice, but shipping is more than double the cost.
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>
> How about free?
> Go to any grocery store and buy something you want to eat in a can that
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> You could make a modular project you could upgrade when you wanted.
> Cheers,
> Bill Baka
>
> I kind of miss all the old BUD boxes.
================================================
With PCB scrap readily available you can make any (modest) size box with
this material . I have stocked up at a fleamarket ,for life.

Frank   GM0CSZ / KN6WH


From 5927665870663852933
X-Google-Thread: 241b302a50,2d83efd747d07d72
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Joerg <invalid@invalid.invalid>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Nice project cases (cheap)
Date: Sun, 06 Dec 2009 13:49:18 -0800
Organization: Consultant
Lines: 37
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<hfe1ev$1fl$1@news.eternal-september.org> <hff49b$1kj$1@news.eternal-
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Reply-To: news@analogconsultants.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: individual.net ciwGIW68HU9akJqXH9LRwQhQte/uN/kSRVuKUbyRP5vqNksL65
Cancel-Lock: sha1:nCj6Ee6YeaHjHWq8xmf/RWoWUNo=
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
In-Reply-To: <hff49b$1kj$1@news.eternal-september.org>
Xref: g2news1.google.com rec.radio.amateur.homebrew:2970
```

sci.electronics.design:127451

Bill Baka wrote:
> Kenneth Scharf wrote:
>> amdx wrote:
>>>   I was looking on ebay and these cases were at the bottom of the page.
>>> Extruded Aluminum Cases 8" x 7.25" x 1.625"
>>> $3.00 Can't beat that price!
>>> I don't know anything more about it, just ran across it.
>>>
>>> http://cgi.ebay.com/Extruded-Aluminum-Cases-8-x-7-25-x-1-625-w-End-
Caps_W0QQitemZ220456768844QQcategoryZ42886QQcmdZViewItemQQ_trksidZp4340.m8QQ_trkpa
rmsZalgo%3DMW%26its%3DC%26itu%3DUCC%26otn%3D5%26ps%3D63
>>>
>>>
>>>   Mike
>>>
>>>
>>>
>> Price is nice, but shipping is more than double the cost.
>> Then again, if you buy a few the cost of shipping per item will go down.
>
> How about free?
> Go to any grocery store and buy something you want to eat in a can that
> has the press on lid. Small ones about the size of Sardine cans make for
> small and sensitive projects, and you can put these into an even bigger
> can for a project. R.F. feed-throughs are not that expensive.
> You could make a modular project you could upgrade when you wanted.

The problem is that the sodium intake with each can of anchovies is
humongous. But they are delicious on pizza or on a cheese sandwich.
Takes a while to get the smell out of a can tho :-)

--
Regards, Joerg

http://www.analogconsultants.com/

"gmail" domain blocked because of excessive spam.
Use another domain or send PM.

From 3454052921671838354
X-Google-Thread: a4a23d5f63,4448fef70ef04a5d,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx01.iad01.newshosting.com!
newshosting.com!198.186.194.249.MISMATCH!transit3.readnews.com!news-
out.readnews.com!news-xxxfer.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)

Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1257577500@panix.com>
Followup-To: poster
Date: 7 Dec 2009 02:05:00 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Jan 2010 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1260169500@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1260169501 12918 166.84.1.2 (7 Dec 2009 07:05:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 7 Dec 2009 07:05:01 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:14036 rec.radio.amateur.dx:508
rec.radio.amateur.equipment:1660 rec.radio.amateur.homebrew:2971
rec.radio.amateur.misc:4463 rec.radio.amateur.policy:24564 rec.radio.info:1086

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

 rec.radio.amateur.antenna |

```
 rec.radio.amateur.boatanchors                                                |
 rec.radio.amateur.dx                                                         |
 rec.radio.amateur.equipment                                                  |
 rec.radio.amateur.homebrew                                                   |
 rec.radio.amateur.moderated                                                  |
 rec.radio.amateur.space                                                      |
```

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

```
From -8501554810363163247
X-Google-Thread: 1617473143,2d83efd747d07d72
X-Google-Attributes: gid1617473143,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!r31g2000vbs.googlegroups.com!not-for-
mail
From: "miso@sushi.com" <miso@sushi.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Nice project cases (cheap)
Date: Mon, 7 Dec 2009 19:36:46 -0800 (PST)
Organization: http://groups.google.com
Lines: 49
Message-ID: <e31370a9-87d7-415c-9636-6ebbaa7bece5@r31g2000vbs.googlegroups.com>
References: <d94bc$4b199f3d$18ec6dd7$20807@KNOLOGY.NET>
<hfe1ev$1fl$1@news.eternal-september.org>
     <hff49b$1kj$1@news.eternal-september.org>
<D8CdnfDY3vhPEIbWnZ2dnUVZ8uGdnZ2d@pipex.net>
NNTP-Posting-Host: 216.27.181.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1260243407 16109 127.0.0.1 (8 Dec 2009 03:36:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 8 Dec 2009 03:36:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r31g2000vbs.googlegroups.com; posting-host=216.27.181.120;
     posting-account=6Lc5QQkAAABgB_fF2IKnKY_62nsS2R4T
User-Agent: G2/1.0
```

X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.2; en-US; rv:1.9.1.5)
     Gecko/20091102 Firefox/3.5.5 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2972
sci.electronics.design:127843

On Dec 6, 2:56=A0am, Highlandham <highlandham_nos...@rfburns.com> wrote:
> Bill Baka wrote:
> > Kenneth Scharf wrote:
> >> amdx wrote:
> >>> =A0 I was looking on ebay and these cases were at the bottom of the p=
age.
> >>> Extruded Aluminum Cases 8" x 7.25" x 1.625"
> >>> =A0$3.00 Can't beat that price!
> >>> I don't know anything more about it, just ran across it.
>
> >>>http://cgi.ebay.com/Extruded-Aluminum-Cases-8-x-7-25-x-1-625-w-End-Ca.=
..
>
> >>> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =
=A0Mike
>
> >> Price is nice, but shipping is more than double the cost.
> >> Then again, if you buy a few the cost of shipping per item will go dow=
n.
>
> > How about free?
> > Go to any grocery store and buy something you want to eat in a can that
> > has the press on lid. Small ones about the size of Sardine cans make fo=
r
> > small and sensitive projects, and you can put these into an even bigger
> > can for a project. R.F. feed-throughs are not that expensive.
> > You could make a modular project you could upgrade when you wanted.
> > Cheers,
> > Bill Baka
>
> > I kind of miss all the old BUD boxes.
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
> With PCB scrap readily available you can make any (modest) size box with
> this material . I have stocked up at a fleamarket ,for life.
>
> Frank =A0 GM0CSZ / KN6WH

I find very low volume (as in production) instruments at flea markets
make good cases, especially if they have things like 10 turn pots on
the outside. I have two or three WTF boxes waiting for suitable
projects. Often it's just to house an open frame power supply. I often
replace the switchers with linears if the switcher is too noisy.

The nice thing about using some scrap instrument case is it generally
has the IEC connector installed, sparing the need to punch a funny
shaped hole. Just leave the controls on the front panel, which is

better than having a box with holes in it.

```
From -4266489179802573117
X-Google-Thread: 1617473143,2d83efd747d07d72
X-Google-Attributes: gid1617473143,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 08 Dec 2009 04:39:39 -0600
Date: Tue, 08 Dec 2009 10:39:27 +0000
From: Highlandham <highlandham_nospam@rfburns.com>
User-Agent: Thunderbird 2.0.0.23 (X11/20090817)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Nice project cases (cheap)
References: <d94bc$4b199f3d$18ec6dd7$20807@KNOLOGY.NET>
<hfe1ev$lfl$1@news.eternal-september.org>     <hff49b$1kj$1@news.eternal-
september.org> <D8CdnfDY3vhPEIbWnZ2dnUVZ8uGdnZ2d@pipex.net>
<e31370a9-87d7-415c-9636-6ebbaa7bece5@r31g2000vbs.googlegroups.com>
In-Reply-To: <e31370a9-87d7-415c-9636-6ebbaa7bece5@r31g2000vbs.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Fs-dneC9bd92sYPWnZ2dnUVZ7sKdnZ2d@pipex.net>
Lines: 45
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.111.44.237
X-Trace: sv3-ZGnCpcZ5sXtaxwXyqHIViUt908Hu5sBkgAkFhTKGE27M2WZp/kLwyycdZc+H/
zf0SRE1EI8X9cHqXKu!y/Tad/1AV0tasv7a/
CHLCJai1I5qFGZNbXxeQuU75G2RpnJMCAkueLKbXxtrvt0miJA16ZheRCGs!jr/
w07EWfkGC0tyuVAExgkn8sA==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:2973
sci.electronics.design:127896
```

```
miso@sushi.com wrote:
> On Dec 6, 2:56 am, Highlandham <highlandham_nos...@rfburns.com> wrote:
>> Bill Baka wrote:
>>> Kenneth Scharf wrote:
>>>> amdx wrote:
>>>>>   I was looking on ebay and these cases were at the bottom of the page.
>>>>> Extruded Aluminum Cases 8" x 7.25" x 1.625"
>>>>>  $3.00 Can't beat that price!
>>>>> I don't know anything more about it, just ran across it.
>>>>> http://cgi.ebay.com/Extruded-Aluminum-Cases-8-x-7-25-x-1-625-w-End-Ca...
>>>>>                                    Mike
```

>>>> Price is nice, but shipping is more than double the cost.
>>>> Then again, if you buy a few the cost of shipping per item will go down.
>>> How about free?
>>> Go to any grocery store and buy something you want to eat in a can that
>>> has the press on lid. Small ones about the size of Sardine cans make for
>>> small and sensitive projects, and you can put these into an even bigger
>>> can for a project. R.F. feed-throughs are not that expensive.
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>>> Cheers,
>>> Bill Baka
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>> ==
>> With PCB scrap readily available you can make any (modest) size box with
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>> Frank   GM0CSZ / KN6WH
>
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> make good cases, especially if they have things like 10 turn pots on
> the outside. I have two or three WTF boxes waiting for suitable
> projects. Often it's just to house an open frame power supply. I often
> replace the switchers with linears if the switcher is too noisy.
>
> The nice thing about using some scrap instrument case is it generally
> has the IEC connector installed, sparing the need to punch a funny
> shaped hole. Just leave the controls on the front panel, which is
> better than having a box with holes in it.
================================
If I use an equipment box with a number of unused front panel holes I
cover the whole front panel with PCB ,only drilling the holes needed.
Since the copper surface over time would corrode I varnish the area
after completing the project.

Frank GM0CSZ / KN6WH

From -3352360924743314823
X-Google-Thread: 1617473143,2d83efd747d07d72
X-Google-Attributes: gid1617473143,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 08 Dec 2009 05:54:41 -0600
Date: Tue, 08 Dec 2009 11:54:40 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Nice project cases (cheap)
References: <d94bc$4b199f3d$18ec6dd7$20807@KNOLOGY.NET>
<hfe1ev$lfl$1@news.eternal-september.org>   <hff49b$1kj$1@news.eternal-

september.org> <D8CdnfDY3vhPEIbWnZ2dnUVZ8uGdnZ2d@pipex.net>
<e31370a9-87d7-415c-9636-6ebbaa7bece5@r31g2000vbs.googlegroups.com> <Fs-dneC9bd92sYPWnZ2dnUVZ7sKdnZ2d@pipex.net>
In-Reply-To: <Fs-dneC9bd92sYPWnZ2dnUVZ7sKdnZ2d@pipex.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <fJadneVjGqcco4PWnZ2dnUVZ_s2dnZ2d@bright.net>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-GXHRuyVkZP9orG10v2LOG/
RUGK7HlgCgIIBX9zQyrqNOL5TqMzWu0UaVgymJlQUNvlmQ0Sf+axjRvxN!
1k5scbMW7wIc0wBraCuc4BnTh6DsM+RTmpxUa0y8a/bWBwj9opufxCHwGTUQrJjuW0lU+alWL1DA!
rxs4FLfDMg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:2974
sci.electronics.design:127903

Highlandham wrote:

> ================================
> If I use an equipment box with a number of unused front panel holes I
> cover the whole front panel with PCB ,only drilling the holes needed.
> Since the copper surface over time would corrode I varnish the area
> after completing the project.
>
> Frank GM0CSZ / KN6WH

I've used laminate intended for kitchen countertops. I buy it at my local DIY home center. Dremel make a "laminate cutter" bit for their moto-tools. You can glue it on or just use front panel components to hold it on...

It comes in an almost unlimited set of patterns such as wood grain, marble, solid color, etc.

Scott
N0EDV

From -8121218001571274985
X-Google-Thread: 241b302a50,b45177c94979b88f,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!a32g2000yqm.googlegroups.com!not-for-mail
From: Tom Corker <tomcorker@googlemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Mic preamp input impedance

Date: Tue, 8 Dec 2009 06:20:05 -0800 (PST)
Organization: http://groups.google.com
Lines: 11
Message-ID: <ebf24d7a-c47b-444c-9203-9717650fd3ef@a32g2000yqm.googlegroups.com>
NNTP-Posting-Host: 94.0.72.165
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1260282006 14155 127.0.0.1 (8 Dec 2009 14:20:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 8 Dec 2009 14:20:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a32g2000yqm.googlegroups.com; posting-host=94.0.72.165;
posting-account=rK_oxQoAAACa91KfohNpt5xGH5Ia-wkt
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.0.15)
Gecko/2009101601 Firefox/3.0.15 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2975

I'm trying to get a 500R impedance dynamic mic working with an old
IC-730. The rig does not have a built in preamp so you have to have
one in the mic casing.
I've found a suitable design by G3SEK (http://www.ifwtech.co.uk/g3sek/
in-prac/best-of.htm#icom) but it seems to be designed for Heil HC4 or
HC5 inserts. These seem to be 1000 ohm impedance. Am I going to cause
problems by using a 500 ohm mic with a preamp designed for 1000 ohms?
Can the deisgn of the preamp be modified for 500?

Cheers
Tom 2E0WNT

From -3546101489688052494
X-Google-Thread: 241b302a50,b45177c94979b88f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
feeder.erje.net!feeder.eternal-september.org!eternal-september.org!not-for-mail
From: Kevin Alfred Strom <kevin.strom@revilo-oliver.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Mic preamp input impedance
Date: Tue, 08 Dec 2009 09:39:08 -0500
Organization: I speak only for myself.
Lines: 22
Message-ID: <hfloed$r9c$1@news.eternal-september.org>
References: <ebf24d7a-c47b-444c-9203-9717650fd3ef@a32g2000yqm.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.eternal-september.org
U2FsdGVkX189ru70+16s9w3T7vTTLiqR11dMJ8XdmlUb4unU17J0dlY8JAuTWClSJQQfhZbWL+rLfZh1qA
7hbpINrhTsxLqutqbuU0mD4jWsHToX/QOxGdlgt3YPBL+wEeMwhfS5s28=
X-Complaints-To: abuse@eternal-september.org

NNTP-Posting-Date: Tue, 8 Dec 2009 14:39:09 +0000 (UTC)
In-Reply-To: <ebf24d7a-c47b-444c-9203-9717650fd3ef@a32g2000yqm.googlegroups.com>
X-Auth-Sender: U2FsdGVkX19IbxcciPXzgVV3BKjNAoK/NAfLD145yBYAKQr0JnGQ5A==
Cancel-Lock: sha1:F0kTZboX8jIiA3ZLE+3E0VGfmrQ=
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2976

Tom Corker wrote:
> I'm trying to get a 500R impedance dynamic mic working with an old
> IC-730. The rig does not have a built in preamp so you have to have
> one in the mic casing.
> I've found a suitable design by G3SEK (http://www.ifwtech.co.uk/g3sek/
> in-prac/best-of.htm#icom) but it seems to be designed for Heil HC4 or
> HC5 inserts. These seem to be 1000 ohm impedance. Am I going to cause
> problems by using a 500 ohm mic with a preamp designed for 1000 ohms?
> Can the deisgn of the preamp be modified for 500?
>
> Cheers
> Tom 2E0WNT

The 1,000 ohm input impedance shouldn't cause any problems at all;
many microphone preamplifiers have input Zs higher than the nominal
figure for the microphones with which they're used.

With all good wishes,

Kevin, WB4AIO.

From 4321199982545580856
X-Google-Thread: 241b302a50,b45177c94979b88f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.eclipse.net.uk!news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 08 Dec 2009 10:36:53 -0600
Message-ID: <wZQXd8gu0nHLFApV@ifwtech.co.uk>
Date: Tue, 8 Dec 2009 16:22:06 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Mic preamp input impedance
References: <ebf24d7a-c47b-444c-9203-9717650fd3ef@a32g2000yqm.googlegroups.com>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.07-M (<5mwkzTBRO5sETFKkGhyHHc+YXH>)
Lines: 20
X-Usenet-Provider: http://www.giganews.com

NNTP-Posting-Host: 91.84.209.172
X-Trace: sv3-
C9g9bXay9AZCpXrZ7FivHvmHPWAHSkWCY0GZIQNozd4Li9V8qRUyphX6AhHUGfMr0nfvjonGQ+f3MKu!
DhYCZNIgJQaWUKAMSZZEkS3yTqgAnQK4N6ZJOEIi1EzIDH7nEwWTnKc7Batr0UaCI7WJKNjZCw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:2977

Tom Corker wrote:
>I'm trying to get a 500R impedance dynamic mic working with an old
>IC-730. The rig does not have a built in preamp so you have to have
>one in the mic casing.
>I've found a suitable design by G3SEK (http://www.ifwtech.co.uk/g3sek/
>in-prac/best-of.htm#icom) but it seems to be designed for Heil HC4 or
>HC5 inserts. These seem to be 1000 ohm impedance. Am I going to cause
>problems by using a 500 ohm mic with a preamp designed for 1000 ohms?
>Can the deisgn of the preamp be modified for 500?
>
>Cheers
>Tom 2E0WNT

No need - that design will be fine as it stands.

--

73 from Ian GM3SEK 'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From -5530381594545093021
X-Google-Thread: 241b302a50,b45177c94979b88f
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 08 Dec 2009 12:23:59 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Mic preamp input impedance
Newsgroups: rec.radio.amateur.homebrew
References: <ebf24d7a-c47b-444c-9203-9717650fd3ef@a32g2000yqm.googlegroups.com>
User-Agent: Pan/0.133 (House of Butterflies)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <zO6dnYzoQOMiBIPWnZ2dnUVZ_qVi4p2d@web-ster.com>
Date: Tue, 08 Dec 2009 12:23:59 -0600
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X-Usenet-Provider: http://www.giganews.com

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6SrigbkWw490gOo=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:2978

On Tue, 08 Dec 2009 06:20:05 -0800, Tom Corker wrote:

> I'm trying to get a 500R impedance dynamic mic working with an old
> IC-730. The rig does not have a built in preamp so you have to have one
> in the mic casing.
> I've found a suitable design by G3SEK (http://www.ifwtech.co.uk/g3sek/
> in-prac/best-of.htm#icom) but it seems to be designed for Heil HC4 or
> HC5 inserts. These seem to be 1000 ohm impedance. Am I going to cause
> problems by using a 500 ohm mic with a preamp designed for 1000 ohms?
> Can the deisgn of the preamp be modified for 500?
>

The 'ideal' mic preamp would have an infinite input impedance, so you
should be fine from that standpoint. If the voltage levels are
significantly different you'll have a problem -- but for that you just
need to try it and find out.

--
www.wescottdesign.com

From 1467855021807382956
X-Google-Thread: 241b302a50,b1c24ba125659426
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!k4g2000yqb.googlegroups.com!not-for-
mail
From: "JRCCrabtree@gmail.com" <jrccrabtree@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Communications Quarterly
Date: Wed, 9 Dec 2009 21:19:52 -0800 (PST)
Organization: http://groups.google.com
Lines: 16
Message-ID: <5400f231-b94e-453d-873f-038df192fcd3@k4g2000yqb.googlegroups.com>
References: <784bee05-5d53-4c9d-b362-6eb287711514@33g2000vbe.googlegroups.com>
NNTP-Posting-Host: 205.188.117.19
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1260422392 24459 127.0.0.1 (10 Dec 2009 05:19:52 GMT)
X-Complaints-To: groups-abuse@google.com

```
NNTP-Posting-Date: Thu, 10 Dec 2009 05:19:52 +0000 (UTC)
Cc: crabtreejr@aol.com
Complaints-To: groups-abuse@google.com
Injection-Info: k4g2000yqb.googlegroups.com; posting-host=205.188.117.19;
     posting-account=oReaeAoAAAC8QjvgaTJKVc8n6hZSq0yP
User-Agent: G2/1.0
X-HTTP-Via: HTTP/1.1 spider-dtc-td06.proxy.aol.com[CDBC7066] (Prism/1.2.1),
     HTTP/1.1 cache-dtc-ae15.proxy.aol.com[CDBC7513] (Traffic-Server/6.1.5 [uScM])
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 7.0; Windows NT
     5.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2979

On Dec 5, 6:13=EF=BF=BDpm, Harv <ha...@cox.net> wrote:
> I am looking for issues of Communications Quarterly Magazine for the
> years 1992 and 1993 (4 issues each year).
>
> Does anyone have them in either hard copy or .pdf file?
>
> Thanks
>
> Harv
> W1BMY

I sent a direct reply offering 7 of the 8 magazines.  No reply
seen.  :-(

73 John  KC0G
crabtreejr at aol dot com



From -5623071152831216287
X-Google-Thread: 241b302a50,29c646ffaf992900,start
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X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!15g2000prz.googlegroups.com!not-for-
mail
From: keephotsell <kent11752@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Perhaps there are things you want:www-keephotsell-com  1. Wholesale
     price: According to the quantity of the order. much discount than others  2.
     Payment:--  -- Western Union, money gram, Bank T/T,   3. Shipment: DHL, TNT,
     EMS, UPS.   4. Shipping d
Date: Thu, 10 Dec 2009 14:39:51 -0800 (PST)
Organization: http://groups.google.com
Lines: 28
Message-ID: <76dd07ed-d7ad-4555-b320-3033d804dafe@15g2000prz.googlegroups.com>
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X-Trace: posting.google.com 1260484792 802 127.0.0.1 (10 Dec 2009 22:39:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 10 Dec 2009 22:39:52 +0000 (UTC)
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User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.80 (Windows NT 5.1; U; zh-cn) Presto/2.2.15
Version/10.10,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2980

Perhaps there are things you want:www-keephotsell-com
1. Wholesale price: According to the quantity of the order. much
discount than others
2. Payment:-- -- Western Union, money gram, Bank T/T,
3. Shipment: DHL, TNT, EMS, UPS.
4. Shipping day: 4-6 days
5. Quality: AAA
6. Packing information: Original box, card, label
7. Fast shipping, good after service to you
best regards!   www.keephotsell.com
Major prodcuts and services:
1. sports shoes (jordan, nike, adidas, puma, air max,gucci,prada,
supra, air yeezy, etc.)
2. clothes (t-shirts, coats, hoody, jerseys, pants, swimming wear,
jeans, evisu, G-Star, Armani,polo,coogi,ed-hardy, Aff, LV, gucci, D&G,
NFL, NBA, MLB etc.)
3. Fashion bags (coach handbags,ed hardy, gucci handbags, lv
handbags, DB, hermes, juicy,prada,jimmy choo handbags); sunglasses,
sports caps, straps, silver 925 jewelry (earring, ring,
necklace,bracelet, etc.)
http://www.keephotsell.com/product.asp?page=22
http://www.keephotsell.com/product.asp?page=21
http://www.keephotsell.com/product.asp?page=20
http://www.keephotsell.com/product.asp?page=19
http://www.keephotsell.com/product.asp?page=18
http://www.keephotsell.com/product.asp?page=17
http://www.keephotsell.com/product.asp?big_id=86&sort_id=438&paixu=1
http://www.keephotsell.com/product.asp?page=16

From -6622567081682564181
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X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!volia.net!news2.volia.net!feed-
A.news.volia.net!news.musoftware.de!wum.musoftware.de!news.mixmin.net!
feeder.eternal-september.org!eternal-september.org!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Toronto Brewers want Peated Malt?
Date: Thu, 10 Dec 2009 18:11:17 -0500
Organization: A noiseless patient Spider
Lines: 23
Message-ID: <hfrv6k$du6$1@news.eternal-september.org>

```
References: <102b0af1-ebf8-46c9-b046-9a25b8f79ef7@k9g2000vbl.googlegroups.com>
<MfSdnYhoz4pWr2HXnZ2dnUVZ_oBi4p2d@web-ster.com>
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In-Reply-To: <MfSdnYhoz4pWr2HXnZ2dnUVZ_oBi4p2d@web-ster.com>
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Cancel-Lock: sha1:MQzdLAs0nW7LKEVacyRKo0jzxjs=
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2981

Tim Wescott wrote:
> On Thu, 12 Nov 2009 06:52:37 -0800, BeeRich wrote:
>
>> Hi folks.
>>
>> Any Toronto all-grain brewers want peated malt?  I'm not brewing these
>> days, but I can whip up some peated malt for those that could use some
>> in a test brew.  I used some at my professional brewery some time back,
>> but since it was shipped from the UK and moved around somewhat, it
>> didn't impart too much flavour.
>>
>> In any case, let me know if you are interested.
>
> In amateur radio parlance, "homebrew" means "to make one's own
> equipment".  It's a metaphor that _refers_ to the act of brewing one's
> own beer -- it doesn't literally mean amateur radio operators who also
> brew beer.
>
> (Although I'll bet that radio amateurs who build their own equipment are
> also more likely to brew their own beer).
>
Hell the tank coils used in the old 200 meter spark days could have done
  double duty in a still!


From -1146651127205983037
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X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d9g2000prh.googlegroups.com!not-for-
mail
From: steyn johnson <jobonlineonly@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: hottest & beautiful mind relaxing videos
Date: Fri, 11 Dec 2009 01:12:51 -0800 (PST)
Organization: http://groups.google.com
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Lines: 11
Message-ID: <673e589b-de8b-483b-b860-012efb57794b@d9g2000prh.googlegroups.com>
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NNTP-Posting-Date: Fri, 11 Dec 2009 09:12:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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     posting-account=u0gHOgoAAABoQ_RpoWrNPWPoMly8E9v1
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Xref: g2news1.google.com rec.radio.amateur.homebrew:2982

http://hottera.blogspot.com/search/label/AISHWARYA%20RAI%20%20red%20hot%20bit

http://hottera.blogspot.com/search/label/
hollywood%20actress%20katrina%20shows%20her%20boobs

http://hottera.blogspot.com/search/label/SOUNDARYA%20HOT%20VIDEO

http://hottera.blogspot.com/search/label/MEENA%20HOTTEST%20WITH%20VENKY

http://hottera.blogspot.com/search/label/
SAKSHISIVANAND%20WITH%20JAGPATI%20BABU%20AT%20BEACH

http://hottera.blogspot.com/search/label/susmita%20sen%20bathing%20scean


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X-Google-Language: ENGLISH,ASCII-7-bit
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newsfeed1.ip.tiscali.net!draco.tiscalinet.it!news-f1.tiscali.it!not-for-mail
Message-ID: <4b290ef6$0$6830$5fc30a8@news.tiscali.it>
From: frank <frank@ottone.venere.it>
Subject: single transistor xtal osc
Newsgroups: rec.radio.amateur.homebrew
User-Agent: tin/1.8.0-20051224 ("Ronay") (UNIX) (Linux/2.6.15-55-686 (i686))
Date: 16 Dec 2009 16:46:47 GMT
Lines: 36
Organization: Tiscali SpA
NNTP-Posting-Host: 78.15.33.99
X-Trace: 1260982007 news.tiscali.it 6830 78.15.33.99:12322
X-Complaints-To: abuse@tiscali.it
Xref: g2news1.google.com rec.radio.amateur.homebrew:2983

Hi all,
```

I'm converting an old 6m transverter for a friend to work on the 4m band. You can see the schematic at the following URL:

http://www.radioamateur.eu/schemi/ACC_transverter/ElectronicSystem_Transv50MHz_sch.pdf

This schematic shows in my opinion a general poor project, but I think I can make it behave in a satisfactory manner.

As you can see from the schematic, there're no component values, so I had to "reverse engineer" almost all parts. Fortunately I have some test equipment so I could redo filters and such pretty easily.

My biggest concern so far is the LO oscillator.
First of all, I found a 22 MHz TTL "can oscillator" in place of the single BJT oscillator. Even if this oscillator appeared to do its job, I can't play the same "game" because 42 MHz oscillators are very hard to find as it's not a standard value.
No, I can't change the IF frequency (28 MHz) as the owner has a dedicated equipment for this band.

Now, would a single BJT oscillator put enough LO power for the single diode mixer? There's hardly enough room to fit a second tuned stage, otherwise I'd have already done this.
The current diode mixer is made with two "ferrite bead" hand wound transformers and 4 x 1N4148 diodes. I'd substitute them with 1N5711, but I'm not sure it would help at this stage.
Does anyone have experience with a similar design?
Any hint is really welcome!
I wouldn't want to experiment too much and risk to damage the PCB (a few substitutions are ok, but if the maker used a pre-made oscillator maybe the design in the schematic was not very usefull).

Best regards
Frank IZ8DWF

From -6220962934496754769
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!188.40.43.213.MISMATCH!feeder.eternal-september.org!eternal-september.org!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: single transistor xtal osc
Date: Wed, 16 Dec 2009 12:03:11 -0500
Organization: A noiseless patient Spider
Lines: 43
Message-ID: <hgb3s6$ala$1@news.eternal-september.org>
References: <4b290ef6$0$6830$5fc30a8@news.tiscali.it>
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X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Wed, 16 Dec 2009 17:03:02 +0000 (UTC)
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X-Auth-Sender: U2FsdGVkX1+cV8dEPGYyJ45obY51mg3C8xxc/AE6YV6shnEgrrgVCg==
Cancel-Lock: sha1:1moSNe0CugGpf9yujeh9m5+bWWk=
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2984
```

frank wrote:

> Hi all,
>
> I'm converting an old 6m transverter for a friend to work on the 4m band. You can see the schematic at the following URL:
>
> http://www.radioamateur.eu/schemi/ACC_transverter/ElectronicSystem_Transv50MHz_sch.pdf
>
> This schematic shows in my opinion a general poor project, but I think I can make it behave in a satisfactory manner.
>
> As you can see from the schematic, there're no component values, so I had to "reverse engineer" almost all parts. Fortunately I have some test equipment so I could redo filters and such pretty easily.
>
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> Does anyone have experience with a similar design?
> Any hint is really welcome!
> I wouldn't want to experiment too much and risk to damage the PCB (a few substitutions are ok, but if the maker used a pre-made oscillator maybe the design in the schematic was not very usefull).
>
> Best regards
> Frank IZ8DWF

If a TTL "Can" oscillator would work, then you could use a TTL or CMOS quad gate wired up as an oscillator with a 42 MHZ 'rock' and use that. There are schematics on the web for building the equivalent of a can

```
oscillator using a 74x00 quad gate, some resistors, caps, and a crystal.
If you need a buffer amp between the oscillator and the mixer, here is
an idea: http://www.kitsandparts.com/rfamp1.1.php



From 4235097833631645623
X-Google-Thread: 241b302a50,42f883150ad5dfef
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f20g2000vbl.googlegroups.com!not-for-mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Toronto Brewers want Peated Malt?
Date: Wed, 16 Dec 2009 09:20:44 -0800 (PST)
Organization: http://groups.google.com
Lines: 32
Message-ID: <4d75fd16-b9df-4c0d-ae7b-35eb7c6dcf1c@f20g2000vbl.googlegroups.com>
References: <102b0af1-ebf8-46c9-b046-9a25b8f79ef7@k9g2000vbl.googlegroups.com>
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     GTB6.3),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2985

On Dec 10, 8:11=A0pm, Kenneth Scharf <wa2...@bellsouth.net> wrote:
> Tim Wescott wrote:
> > On Thu, 12 Nov 2009 06:52:37 -0800, BeeRich wrote:
>
> >> Hi folks.
>
> >> Any Toronto all-grain brewers want peated malt? =A0I'm not brewing the=
se
> >> days, but I can whip up some peated malt for those that could use some
> >> in a test brew. =A0I used some at my professional brewery some time ba=
ck,
> >> but since it was shipped from the UK and moved around somewhat, it
> >> didn't impart too much flavour.
>
> >> In any case, let me know if you are interested.
>
```

> > In amateur radio parlance, "homebrew" means "to make one's own
> > equipment". =A0It's a metaphor that _refers_ to the act of brewing one'=
s
> > own beer -- it doesn't literally mean amateur radio operators who also
> > brew beer.
>
> > (Although I'll bet that radio amateurs who build their own equipment ar=
e
> > also more likely to brew their own beer).
>
> Hell the tank coils used in the old 200 meter spark days could have done
> =A0 double duty in a still!- Hide quoted text -
>
> - Show quoted text -

Maybe they 'still' could?

From 412619141159452358
X-Google-Thread: 241b302a50,42b17bfac33ce7fc
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!feeder.erje.net!
news2.arglkargh.de!news.albasani.net!newsfeed00.sul.t-online.de!t-online.de!
tiscali!newsfeed1.ip.tiscali.net!draco.tiscalinet.it!news-f2.tiscali.it!not-for-
mail
Message-ID: <4b2917a0$0$702$5fc30a8@news.tiscali.it>
From: frank <frank@ottone.venere.it>
Subject: Re: single transistor xtal osc
Newsgroups: rec.radio.amateur.homebrew
References: <4b290ef6$0$6830$5fc30a8@news.tiscali.it> <hgb3s6$ala$1@news.eternal-
september.org>
User-Agent: tin/1.8.0-20051224 ("Ronay") (UNIX) (Linux/2.6.15-55-686 (i686))
Date: 16 Dec 2009 17:23:44 GMT
Lines: 24
Organization: Tiscali SpA
NNTP-Posting-Host: 78.15.33.99
X-Trace: 1260984224 news.tiscali.it 702 78.15.33.99:12727
X-Complaints-To: abuse@tiscali.it
Xref: g2news1.google.com rec.radio.amateur.homebrew:2986

Hi Kenneth,

Kenneth Scharf <wa2mze@bellsouth.net> wrote:

> If a TTL "Can" oscillator would work, then you could use a TTL or CMOS
> quad gate wired up as an oscillator with a 42 MHZ 'rock' and use that.
> There are schematics on the web for building the equivalent of a can
> oscillator using a 74x00 quad gate, some resistors, caps, and a crystal.

I think that 74xx00 oscillators are difficult to make with 3rd overtone

xtals (like the 42 MHz one available), I might be wrong and probably
I'll have a try.

> If you need a buffer amp between the oscillator and the mixer, here is
> an idea: http://www.kitsandparts.com/rfamp1.1.php

if I had space, I'd put a similar buffer after a well proven good xtal
oscillator. I have many successful designs handy, but not much space
inside this transverter :/

Best regards
Frank IZ8DWF

```
From 7484590200761554398
X-Google-Thread: 241b302a50,42b17bfac33ce7fc
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!m33g2000pri.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: single transistor xtal osc
Date: Wed, 16 Dec 2009 09:54:29 -0800 (PST)
Organization: http://groups.google.com
Lines: 56
Message-ID: <0d7aa916-8156-49ee-854b-850770686f44@m33g2000pri.googlegroups.com>
References: <4b290ef6$0$6830$5fc30a8@news.tiscali.it>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1260986069 32491 127.0.0.1 (16 Dec 2009 17:54:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 16 Dec 2009 17:54:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m33g2000pri.googlegroups.com; posting-host=192.25.240.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.5)
     Gecko/20091102 Firefox/3.5.5,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2987
```

On Dec 16, 8:46=A0am, frank <fr...@ottone.venere.it> wrote:
> Hi all,
>
> I'm converting an old 6m transverter for a friend to work on the 4m
> band. You can see the schematic at the following URL:
>
> http://www.radioamateur.eu/schemi/ACC_transverter/ElectronicSystem_Tr...
>

> This schematic shows in my opinion a general poor project, but I think I can make it behave in a satisfactory manner.
>
> As you can see from the schematic, there're no component values, so I had to "reverse engineer" almost all parts. Fortunately I have some test equipment so I could redo filters and such pretty easily.
>
> My biggest concern so far is the LO oscillator.
> First of all, I found a 22 MHz TTL "can oscillator" in place of the single BJT oscillator. Even if this oscillator appeared to do its job, I can't play the same "game" because 42 MHz oscillators are very hard to find as it's not a standard value.
> No, I can't change the IF frequency (28 MHz) as the =A0owner has a dedicated equipment for this band.
>
> Now, would a single BJT oscillator put enough LO power for the single diode mixer? There's hardly enough room to fit a second tuned stage, otherwise I'd have already done this.
> The current diode mixer is made with two "ferrite bead" hand wound transformers and 4 x 1N4148 diodes. I'd substitute them with 1N5711, but I'm not sure it would help at this stage.
> Does anyone have experience with a similar design?
> Any hint is really welcome!
> I wouldn't want to experiment too much and risk to damage the PCB (a few substitutions are ok, but if the maker used a pre-made oscillator maybe the design in the schematic was not very usefull).
>
> Best regards
> Frank IZ8DWF

Hi Frank...

Wow, the mixer in that circuit looks really weird. No, make it: that mixer looks WRONG. I would not expect single diodes to be directly across transformer windings like that.

I'd expect you can get plenty of power out of a single transistor (3rd-overtone) oscillator to drive a double-balanced mixer with Schottky diodes, certainly. +7dBm is normal for that. That's only half a volt into 50 ohms, or 1V rms into 200 ohms. I'd probably pull a Minicircuits mixer out of my junque box, and not try to build one from diodes and transformers; a Minicircuits ADE-1 (or any of several others) in a package less than 6x8mm should do the job fine. Also small: active mixers. I've been playing with a Linear Technology LT5560, which works fine with 0dBm LO power.

Cheers,
Tom

From -2327571539365463843
X-Google-Thread: 241b302a50,42b17bfac33ce7fc
X-Google-Attributes: gid241b302a50,public,usenet

X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news3.google.com!proxad.net!
feeder1-2.proxad.net!213.200.89.82.MISMATCH!tiscali!newsfeed1.ip.tiscali.net!
draco.tiscalinet.it!news-f2.tiscali.it!not-for-mail
Message-ID: <4b29476b$0$691$5fc30a8@news.tiscali.it>
From: frank <frank@ottone.venere.it>
Subject: Re: single transistor xtal osc
Newsgroups: rec.radio.amateur.homebrew
References: <4b290ef6$0$6830$5fc30a8@news.tiscali.it>
<0d7aa916-8156-49ee-854b-850770686f44@m33g2000pri.googlegroups.com>
User-Agent: tin/1.8.0-20051224 ("Ronay") (UNIX) (Linux/2.6.15-55-686 (i686))
Date: 16 Dec 2009 20:47:39 GMT
Lines: 51
Organization: Tiscali SpA
NNTP-Posting-Host: 78.15.33.99
X-Trace: 1260996459 news.tiscali.it 691 78.15.33.99:12973
X-Complaints-To: abuse@tiscali.it
Xref: g2news1.google.com rec.radio.amateur.homebrew:2988

Hi Tom,

K7ITM <k7itm@msn.com> wrote:
>
> Hi Frank...
>
> Wow, the mixer in that circuit looks really weird. No, make it: that
> mixer looks WRONG. I would not expect single diodes to be directly
> across transformer windings like that.

I believe they made the schematic wrong!! I checked the actual circuit
and seems just right :-)
After all it was working on the 6m band.
Though they did really many mistakes that I tried to correct.
Q6 is a transistor with Ft=150 MHz, just for a little example, but many
mistakes can be spotted directly on the schematic.

>
> I'd expect you can get plenty of power out of a single transistor (3rd-
> overtone) oscillator to drive a double-balanced mixer with Schottky
> diodes, certainly. +7dBm is normal for that. That's only half a volt
> into 50 ohms, or 1V rms into 200 ohms. I'd probably pull a
> Minicircuits mixer out of my junque box, and not try to build one from
> diodes and transformers; a Minicircuits ADE-1 (or any of several
> others) in a package less than 6x8mm should do the job fine. Also
> small: active mixers. I've been playing with a Linear Technology
> LT5560, which works fine with 0dBm LO power.
>

I though so also, but this beast has only one mixer for RX and TX and
RF/IF ports are exchanged from RX to TX. This migth be a problem or not,
but if it worked at 50 MHz with 1N4148s it will work on 70 MHz with

1N5711 (maybe even reasonably well with 1N4148, but diodes are cheap anyway).

Of course my own transverters are much better, I started from well known and working schematics. I've been asked to modify this one just because the owner isn't going to get active on the new band if he has to spend much more than a bunch of parts. Having as many new station QRV as possible is good, the nearest 4m station to my QTH currently is at a bit less than 500 Km and that's after two years that we have had temporary permits.

Thanks for suggestions, I probably will try with a simple BJT oscillator, I was just a bit worried by the unknown collector load, I don't have any info on T4. I would need to remove and test separately with a signal generator.

best regards
Frank IZ8DWF

```
From -3543844394476356106
X-Google-Thread: 241b302a50,42b17bfac33ce7fc
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
feeder.erje.net!feeder.eternal-september.org!eternal-september.org!not-for-mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: single transistor xtal osc
Date: Wed, 16 Dec 2009 21:10:58 +0000
Organization: A noiseless patient Spider
Lines: 20
Message-ID: <6iF1ZNJizUKLFwjh@g3ohx.demon.co.uk>
References: <4b290ef6$0$6830$5fc30a8@news.tiscali.it>
 <0d7aa916-8156-49ee-854b-850770686f44@m33g2000pri.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.eternal-september.org U2FsdGVkX19V0kvjyHxURTj65FC4QsJOsQNsjeL/x/
0kcUByof5On7+Zk7WI2y6jtX8Au9TfHXBN4SLUsAdHawH6FGJSSqR4jCFNAV0nxq9hn2wyTsCtcZfw5dKb
be/8wjSQ6eZn1bOmKGvf4CP26A==
X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Wed, 16 Dec 2009 21:11:16 +0000 (UTC)
X-Auth-Sender: U2FsdGVkX1+0JO41n/GyG5cW10H0OMqXrOWbbijBO2pD/V+SwiWmnA==
Cancel-Lock: sha1:kJYSpbKW4Lacu9oNtMyOunPKGks=
User-Agent: Turnpike/6.06-S (<XFcqWafbKPT1YPCj2BEoeAFAgm>)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2989
```

In message
<0d7aa916-8156-49ee-854b-850770686f44@m33g2000pri.googlegroups.com>,
K7ITM <k7itm@msn.com> writes
>

>
>Hi Frank...
>
>Wow, the mixer in that circuit looks really weird. No, make it: that
>mixer looks WRONG. I would not expect single diodes to be directly
>across transformer windings like that.
>

The mixer is indeed wrong. Only one diode is 'correct'.
To correct the circuit, you could take D8 as the 'correct' diode.
D6 - reverse.
D5 - connect anode to D6 cathode.
D7 - connect cathode to D6 anode.
--
Ian

```
From -1247265544364800856
X-Google-Thread: 241b302a50,4cb0185163146814,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n35g2000yqm.googlegroups.com!not-for-
mail
From: brent <bulegoge@columbus.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Convolution Tutorial
Date: Sun, 27 Dec 2009 08:56:33 -0800 (PST)
Organization: http://groups.google.com
Lines: 8
Message-ID: <2e90601e-ad66-4d3d-b861-67a4a0f0b2be@n35g2000yqm.googlegroups.com>
NNTP-Posting-Host: 76.181.44.43
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1261932993 11437 127.0.0.1 (27 Dec 2009 16:56:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 27 Dec 2009 16:56:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n35g2000yqm.googlegroups.com; posting-host=76.181.44.43;
     posting-account=PCksUwoAAAAsb8KSbS36lmWOqee5wTyG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.0; en-US; rv:1.9.1.6)
     Gecko/20091201 Firefox/3.5.6,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2990
```

I have created a tutorial on the convolution integral. It uses an
interactive flash program with embedded audio files.

It is located here:

http://www.fourier-series.com/Convolution/index.html

brent

```
From 3696264990492797385
X-Google-Thread: 241b302a50,4cb0185163146814
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!n38g2000yqf.googlegroups.com!not-for-
mail
From: Roger <sailtamarack@yahoo.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Convolution Tutorial
Date: Sun, 27 Dec 2009 10:28:33 -0800 (PST)
Organization: http://groups.google.com
Lines: 17
Message-ID: <2e2c5212-24c9-40d4-8245-3ac38627cdfa@n38g2000yqf.googlegroups.com>
References: <2e90601e-ad66-4d3d-b861-67a4a0f0b2be@n35g2000yqm.googlegroups.com>
NNTP-Posting-Host: 24.68.249.181
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1261938513 21374 127.0.0.1 (27 Dec 2009 18:28:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 27 Dec 2009 18:28:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n38g2000yqf.googlegroups.com; posting-host=24.68.249.181;
     posting-account=dq7g2QkAAABAoYIKdqV_4MCe6upODvjO
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.6)
     Gecko/20091201 Firefox/3.5.6 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2991
```

On Dec 27, 8:56=A0am, brent <buleg...@columbus.rr.com> wrote:

> I have created a tutorial on the convolution integral. It uses an
> interactive flash program with embedded audio files.
>
> =A0It is located here:
>
> http://www.fourier-series.com/Convolution/index.html
>
> brent

Brent,

Just wanted to thank you for preparing all your Flash tutorials.
Really helps to get insight into these topics. I wish I had these
when I was struggling in Electrical engineering classes.

Have a great New Year - Roger

```
From 6240194668205763462
X-Google-Thread: 241b302a50,40933e0837ad0d89,start
```

```
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z7g2000vbl.googlegroups.com!not-for-
mail
From: Gene <moggy2@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Radio conversion
Date: Sun, 27 Dec 2009 10:34:56 -0800 (PST)
Organization: http://groups.google.com
Lines: 11
Message-ID: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
NNTP-Posting-Host: 205.188.117.65
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1261938896 16983 127.0.0.1 (27 Dec 2009 18:34:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 27 Dec 2009 18:34:56 +0000 (UTC)
Cc: moggy2@aol.com
Complaints-To: groups-abuse@google.com
Injection-Info: z7g2000vbl.googlegroups.com; posting-host=205.188.117.65;
     posting-account=d-RCGQoAAACz1k9UBCetIXd3rQOwBtq-
User-Agent: G2/1.0
X-HTTP-Via: HTTP/1.1 spider-dtc-tc08.proxy.aol.com[CDBC7048] (Prism/1.2.1),
     HTTP/1.1 cache-dtc-af01.proxy.aol.com[CDBC7541] (Traffic-Server/6.1.5 [uScM])
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
     SV1; .NET CLR 1.0.3705; .NET CLR 1.1.4322; Media Center PC
     4.0),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2992

Season`s greetings to all...
While in England in `91, I picked up a Ford motor car radio receiver.
P21 79GB-18K810  HA .   Two band , LW & MW .. (166 KHz - 285 KHz LW
&  666KHz  - 1500Khz MW  +/- ) .I would like to extend the LW band as
high in frequency as i can , and the MW band as low as i can in
frequency..I.F. is 465 kHz...Object : To create a beacon ( 200KHz -
400 KHz ) receiver...
Is there anyone out there that has any experience , and or ideas with
what i have in mind ?

TIA   Gene   WB7NGI


From 2825790009187710762
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!t42g2000vba.googlegroups.com!not-for-
mail
From: brent <bulegoge@columbus.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Convolution Tutorial
Date: Sun, 27 Dec 2009 16:46:16 -0800 (PST)
Organization: http://groups.google.com
Lines: 23
```

```
Message-ID: <c5dc1bd7-75cf-44d6-bf06-8a9cbdf1072e@t42g2000vba.googlegroups.com>
References: <2e90601e-ad66-4d3d-b861-67a4a0f0b2be@n35g2000yqm.googlegroups.com>
     <2e2c5212-24c9-40d4-8245-3ac38627cdfa@n38g2000yqf.googlegroups.com>
NNTP-Posting-Host: 76.181.44.43
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1261961176 25262 127.0.0.1 (28 Dec 2009 00:46:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 28 Dec 2009 00:46:16 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t42g2000vba.googlegroups.com; posting-host=76.181.44.43;
     posting-account=PCksUwoAAAAsb8KSbS36lmWOqee5wTyG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.16)
     Gecko/2009120208 Firefox/3.0.16,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2993

On Dec 27, 1:28=A0pm, Roger <sailtamar...@yahoo.ca> wrote:
> On Dec 27, 8:56=A0am, brent <buleg...@columbus.rr.com> wrote:
>
> > I have created a tutorial on the convolution integral. It uses an
> > interactive flash program with embedded audio files.
>
> > =A0It is located here:
>
> >http://www.fourier-series.com/Convolution/index.html
>
> > brent
>
> Brent,
>
> Just wanted to thank you for preparing all your Flash tutorials.
> Really helps to get insight into these topics. =A0I wish I had these
> when I was struggling in Electrical engineering classes.
>
> Have a great New Year - Roger

Thanks for the nice feedback.

I hope you have a nice new year too


From 67559233102197013
X-Google-Thread: 241b302a50,4cb0185163146814
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 27 Dec 2009 20:54:34 -0600
Date: Sun, 27 Dec 2009 20:54:27 -0600
```

From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Convolution Tutorial
References: <2e90601e-ad66-4d3d-b861-67a4a0f0b2be@n35g2000yqm.googlegroups.com>
In-Reply-To: <2e90601e-ad66-4d3d-b861-67a4a0f0b2be@n35g2000yqm.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <bJ-dncirsbR3gKXWnZ2dnUVZ_gRi4p2d@giganews.com>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-TEYGcmKAMLHXGWkqASPHO4JmR1Ar6ZfZ2k4hpkyEztAwJ72g41loowddBH7UJzSViDMjWqy/5Qeh5n+!4K44Hfp+4nywkHy3T01K0buBTSQb3QZGlU94aNzEH/MQDmywibuXYR2GzEWrE4ABp3BTmvq3UlI=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:2994

brent wrote:
> I have created a tutorial on the convolution integral. It uses an
> interactive flash program with embedded audio files.
>
> It is located here:
>
> http://www.fourier-series.com/Convolution/index.html
>
> brent

Hi Brent,
maybe I am missing something.
The 1-D convolution outputs that you show don't seem quite right?

Brian W

From -9206051885471787187
X-Google-Thread: 241b302a50,4cb0185163146814
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!g26g2000yqe.googlegroups.com!not-for-mail
From: brent <bulegoge@columbus.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Convolution Tutorial
Date: Sun, 27 Dec 2009 22:10:49 -0800 (PST)
Organization: http://groups.google.com

```
Lines: 18
Message-ID: <506727fe-fbda-488a-b630-5f5e913b6542@g26g2000yqe.googlegroups.com>
References: <2e90601e-ad66-4d3d-b861-67a4a0f0b2be@n35g2000yqm.googlegroups.com>
     <bJ-dncirsbR3gKXWnZ2dnUVZ_gRi4p2d@giganews.com>
NNTP-Posting-Host: 76.181.44.43
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1261980649 25300 127.0.0.1 (28 Dec 2009 06:10:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 28 Dec 2009 06:10:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g26g2000yqe.googlegroups.com; posting-host=76.181.44.43;
     posting-account=PCksUwoAAAAsb8KSbS36lmWOqee5wTyG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.6)
     Gecko/20091201 Firefox/3.5.6,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2995

On Dec 27, 9:54=A0pm, brian whatcott <betw...@sbcglobal.net> wrote:
> brent wrote:
> > I have created a tutorial on the convolution integral. It uses an
> > interactive flash program with embedded audio files.
>
> > =A0It is located here:
>
> >http://www.fourier-series.com/Convolution/index.html
>
> > brent
>
> Hi Brent,
> maybe I am missing something.
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>
> Brian W

could you be more specific?


From 4385135130097503953
X-Google-Thread: 241b302a50,4cb0185163146814
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
newsfeed.straub-nv.de!feeder.eternal-september.org!eternal-september.org!
news.newsland.it!feeder.news.tin.it!spool.news.tin.it!not-for-mail
Date: Mon, 28 Dec 2009 07:47:26 +0100
From: Bruce <i6ypk@yahoo.it>
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Convolution Tutorial
```

```
References: <2e90601e-ad66-4d3d-b861-67a4a0f0b2be@n35g2000yqm.googlegroups.com>
In-Reply-To: <2e90601e-ad66-4d3d-b861-67a4a0f0b2be@n35g2000yqm.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 091227-1, 27/12/2009), Outbound message
X-Antivirus-Status: Clean
Lines: 18
Message-ID: <4b38547d$0$826$4fafbaef@reader5.news.tin.it>
Organization: TIN.IT (http://www.tin.it)
X-Comments: Please send technical notifications to newsmaster@tin.it
NNTP-Posting-Host: 79.18.176.153
X-Trace: 1261982845 reader5.news.tin.it 826 79.18.176.153:15097
X-Complaints-To: Please send abuse reports to abuse@retail.telecomitalia.it
Xref: g2news1.google.com rec.radio.amateur.homebrew:2996

Hi Brent,

thank you very much for all your Fourier series, DSP , Smith chart,
etc.. flash tutorials. Very nice and helpful !

73's and Happy New Year
de Bruno, I6YPK


brent ha scritto:
> I have created a tutorial on the convolution integral. It uses an
> interactive flash program with embedded audio files.
>
>  It is located here:
>
> http://www.fourier-series.com/Convolution/index.html
>
> brent


From -5803837910442715762
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!c3g2000yqd.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio conversion
Date: Mon, 28 Dec 2009 12:38:47 -0800 (PST)
Organization: http://groups.google.com
Lines: 37
Message-ID: <c6928f7f-9bf3-4093-ac5a-7fdfd66195ef@c3g2000yqd.googlegroups.com>
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
```

```
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1262032727 23432 127.0.0.1 (28 Dec 2009 20:38:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 28 Dec 2009 20:38:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c3g2000yqd.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
     AppleWebKit/532.0 (KHTML, like Gecko) Chrome/3.0.195.38 Safari/
532.0,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2997
```

On Dec 27, 1:34=A0pm, Gene <mog...@aol.com> wrote:
> Season`s greetings to all...
> While in England in `91, I picked up a Ford motor car radio receiver.
> P21 79GB-18K810 =A0HA . =A0 Two band , LW & MW .. (166 KHz - 285 KHz LW
> & =A0666KHz =A0- 1500Khz MW =A0+/-) .I would like to extend the LW band =
as
> high in frequency as i can , and the MW band as low as i can in
> frequency..I.F. is 465 kHz...Object : To create a beacon (200KHz -
> 400 KHz) receiver...
> Is there anyone out there that has any experience , and or ideas with
> what i have in mind ?
>
> TIA =A0 Gene =A0 WB7NGI

If analog tuning then you add or remove capacitance to each LC and hope that the padding can be adjusted or supplemented enough so that everything (mixer and front end) tracks. It won't be so much "extending" the tuning range but instead will be "shifting" the tuning range.

If digital tuning then you'll have to locate the schematic for the PLL chipset and see if you can convince the local oscillator to shift far enough. With some PLL chipsets there are programming pins or diodes that set the allowed range. In many cases, if you don't need the original tuning range, you can patch in a divide by two or just change the reference oscillator. If you change the reference oscillator then the display won't be right but will be mathematically related to the actual frequency.

I collect British tabletop radios and am quite familiar with their longwave dial on tube-type analog sets (my favorite is when they do not list frequencies but only wavelengths) but am not particularly familiar with British car radios. My one piece of advice with respect to car radios from foreign autos of 70's vintage or older, is to check carefully WRT 6V or 12V and WRT to negative ground or positive ground.

Tim N3QE

From 5840482469427413639

```
X-Google-Thread: 241b302a50,4cb0185163146814
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 29 Dec 2009 06:44:50 -0600
Date: Tue, 29 Dec 2009 06:44:36 -0600
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Convolution Tutorial
References: <2e90601e-ad66-4d3d-b861-67a4a0f0b2be@n35g2000yqm.googlegroups.com>
     <bJ-dncirsbR3gKXWnZ2dnUVZ_gRi4p2d@giganews.com> <506727fe-fbda-488a-
b630-5f5e913b6542@g26g2000yqe.googlegroups.com>
In-Reply-To: <506727fe-fbda-488a-b630-5f5e913b6542@g26g2000yqe.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <d5adnbzE5d5fZKTWnZ2dnUVZ_qxi4p2d@giganews.com>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-HfKi5ICCt3yktCmk7QRRdwYl+EhXnis8vixiN7PO+n1nhax6vxvyuUi3IckOXQ/qrd/
AUspwy7QnLgd!m/
di+9xTv9Gya81YvLfKS43vvsPpAHcAsFYPuH9ZBLC5cZfNhAqqVOTiFrHYDRtH4gUgtmLIGDo=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:2998

brent wrote:
...
>> Hi Brent,
>> maybe I am missing something.
>> The 1-D convolution outputs that you show don't seem quite right?
>>
>> Brian W
>
> could you be more specific?

When I examined the convolution of a sine wave and a pulse, the
trailing part of the output waveform after the pulse was processed,
seemed to have a random component od small amplitude round zero.

Brian W


From 7141917823142717118
```

```
X-Google-Thread: 241b302a50,4cb0185163146814
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!h2g2000vbd.googlegroups.com!not-for-
mail
From: brent <bulegoge@columbus.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Convolution Tutorial
Date: Tue, 29 Dec 2009 05:58:07 -0800 (PST)
Organization: http://groups.google.com
Lines: 14
Message-ID: <beaebb19-1368-437f-84a7-4ee597dbb76a@h2g2000vbd.googlegroups.com>
References: <2e90601e-ad66-4d3d-b861-67a4a0f0b2be@n35g2000yqm.googlegroups.com>
     <4b38547d$0$826$4fafbaef@reader5.news.tin.it>
NNTP-Posting-Host: 76.181.44.43
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1262095087 15352 127.0.0.1 (29 Dec 2009 13:58:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 29 Dec 2009 13:58:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h2g2000vbd.googlegroups.com; posting-host=76.181.44.43;
     posting-account=PCksUwoAAAAsb8KSbS36lmWOqee5wTyG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.16)
     Gecko/2009120208 Firefox/3.0.16,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2999
```

On Dec 28, 1:47=A0am, Bruce <i6...@yahoo.it> wrote:

> Hi Brent,
>
> thank you very much for all your Fourier series, DSP , Smith chart,
> etc.. flash tutorials. Very nice and helpful !
>
> 73's and Happy New Year
> de Bruno, I6YPK
>
> brent ha scritto:

Thanks for the nice remarks. Happy new year to you too.

```
From 8301465952399751633
X-Google-Thread: 241b302a50,4cb0185163146814
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!n13g2000vbe.googlegroups.com!not-for-
mail
```

From: brent <bulegoge@columbus.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Convolution Tutorial
Date: Tue, 29 Dec 2009 06:00:01 -0800 (PST)
Organization: http://groups.google.com
Lines: 25
Message-ID: <0d927951-97f6-4cd3-a511-ca2e4f9e23ab@n13g2000vbe.googlegroups.com>
References: <2e90601e-ad66-4d3d-b861-67a4a0f0b2be@n35g2000yqm.googlegroups.com>
<bJ-dncirsbR3gKXWnZ2dnUVZ_gRi4p2d@giganews.com> <506727fe-fbda-488a-b630-5f5e913b6542@g26g2000yqe.googlegroups.com>
<d5adnbzE5d5fZKTWnZ2dnUVZ_qxi4p2d@giganews.com>
NNTP-Posting-Host: 76.181.44.43
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1262095202 8634 127.0.0.1 (29 Dec 2009 14:00:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 29 Dec 2009 14:00:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n13g2000vbe.googlegroups.com; posting-host=76.181.44.43;
posting-account=PCksUwoAAAAsb8KSbS36lmWOqee5wTyG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.16)
Gecko/2009120208 Firefox/3.0.16,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3000

On Dec 29, 7:44=A0am, brian whatcott <betw...@sbcglobal.net> wrote:
> brent wrote:
>
> ...
>
> >> Hi Brent,
> >> maybe I am missing something.
> >> The 1-D convolution outputs that you show don't seem quite right?
>
> >> Brian W
>
> > could you be more specific?
>
> When I examined the convolution of a sine wave and a pulse, the
> trailing part of the output waveform after the pulse was processed,
> seemed to have a random component od small amplitude round zero.
>
> Brian W

I am sorry, but I don't see it. I can say that sometimes you have to push the slider kind of slow to catch all the points. If the slider is pushed too fast the program interpolates the points that were missed.

Brent

```
From -8043307458385269062
X-Google-Thread: 241b302a50,4cb0185163146814
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 29 Dec 2009 12:01:02 -0600
Date: Tue, 29 Dec 2009 12:00:47 -0600
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Convolution Tutorial
References: <2e90601e-ad66-4d3d-b861-67a4a0f0b2be@n35g2000yqm.googlegroups.com>
     <bJ-dncirsbR3gKXWnZ2dnUVZ_gRi4p2d@giganews.com> <506727fe-fbda-488a-
b630-5f5e913b6542@g26g2000yqe.googlegroups.com>
<d5adnbzE5d5fZKTWnZ2dnUVZ_qxi4p2d@giganews.com> <0d927951-97f6-4cd3-a511-
ca2e4f9e23ab@n13g2000vbe.googlegroups.com>
In-Reply-To: <0d927951-97f6-4cd3-a511-ca2e4f9e23ab@n13g2000vbe.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <jcmdnaS3sMhD3qfWnZ2dnUVZ_tli4p2d@giganews.com>
Lines: 32
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-6gYnFXTY69LasPZ7yjQNEatoIXx61wlqPdjQsjF3S0OAM8eq2Kp9ZN/0m/
TW7tXVMUK0XktBc+YueUG!
3E62b92lOLg15BXO7rSdxxLS5h3YaLwcsnq8js3LhlycAO1AEqBe1f3duWhelMZzsOGnvALyUNk=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3001

brent wrote:
> On Dec 29, 7:44 am, brian whatcott <betw...@sbcglobal.net> wrote:
>> brent wrote:
>>
>> ...
>>
>>>> Hi Brent,
>>>> maybe I am missing something.
>>>> The 1-D convolution outputs that you show don't seem quite right?
>>>> Brian W
>>> could you be more specific?
>> When I examined the convolution of a sine wave and a pulse, the
>> trailing part of the output waveform after the pulse was processed,
>> seemed to have a random component od small amplitude round zero.
>>
```

>> Brian W
>
> I am sorry, but I don't see it. I can say that sometimes you have to
> push the slider kind of slow to catch all the points. If the slider
> is pushed too fast the program interpolates the points that were
> missed.
>
> Brent

I believe you have identified the issue: selecting pulse (That's the wider one) and freq2 (that's the higher f), then if I pull the slider too fast, the trace is jagged - which is as you say like hopping over samples.... Pulling the slider SLOWLY fixes this right up!

Thanks

Brian W

From 3107699446472717585
X-Google-Thread: 241b302a50,a749e3d97ecbd9bd,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!news.mixmin.net!feeder.eternal-september.org!eternal-september.org!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Bi-directional Linear amp - news of the weird
Date: Tue, 29 Dec 2009 16:57:46 -0500
Organization: A noiseless patient Spider
Message-ID: <hhdtvs$vlq$1@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Tue, 29 Dec 2009 21:57:17 +0000 (UTC)
Injection-Info: feeder.eternal-september.org;
     logging-data="32442"; mail-complaints-to="abuse@eternal-september.org"
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
X-Auth-Sender: U2FsdGVkX18AcdmL6XpQyGZnrfrfQ9IPpeMztY0/RmOdqjlwFnYb0g==
Cancel-Lock: sha1:6yV2PSwk/2FKG1OFMyLm/dCbV0M=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3002

Many years ago a friend of mine was repairing a Heath SB200 linear he had picked up. The antenna relay needed work and he was replacing the stupid RCA connector in the input side of the rig with an SO-239 (why did Heath use those RCA connectors for the antenna in all their ham rigs?).

Anyway we were talking about how the linear improved the transmit signal strength, but did nothing for the receiver and he wanted to also build a small receiver preamp to put inside the linear cabinet, and we both got the samw brainstorm, at the same time. Why not wire the linear up so it would work in BOTH directions? I suppose a grounded grid preamp using tubes with a combined plate dissipation of some 300 watts seems crazy, and one's first though would be "you'll blow up the receiver!". But remember that those tubes have a power gain of only 13db and that's about the same as a 6BA6 rf amp tube. Of course the noise figure of the 572B as a preamp probably isn't quit as good as a 6CW4, but you won't notice it much on 20 meters. Also at the signal levels we are talking about the usual cutoff bias for the tubes STILL leaves them in class A for use as a small signal preamp!

To make a long story short, we wired the relay up so it would do the required switching and tried it. The linear did boost received signals by about 13db, just as we expected. Made a difference in the DX contest!

```
From 7599684178065460084
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!j19g2000yqk.googlegroups.com!not-for-
mail
From: Gene <moggy2@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio conversion
Date: Tue, 29 Dec 2009 17:38:40 -0800 (PST)
Organization: http://groups.google.com
Lines: 46
Message-ID: <eda355c6-3ccf-4249-9f3f-f7e2b7717e8f@j19g2000yqk.googlegroups.com>
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
     <c6928f7f-9bf3-4093-ac5a-7fdfd66195ef@c3g2000yqd.googlegroups.com>
NNTP-Posting-Host: 205.188.116.202
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1262137120 32088 127.0.0.1 (30 Dec 2009 01:38:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 30 Dec 2009 01:38:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j19g2000yqk.googlegroups.com; posting-host=205.188.116.202;
     posting-account=d-RCGQoAAACz1k9UBCetIXd3rQOwBtq-
User-Agent: G2/1.0
X-HTTP-Via: HTTP/1.1 spider-dtc-te01.proxy.aol.com[CDBC7081] (Prism/1.2.1),
     HTTP/1.1 cache-dtc-ad08.proxy.aol.com[CDBC74CA] (Traffic-Server/6.1.5 [uScM])
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
     SV1; .NET CLR 1.0.3705; .NET CLR 1.1.4322; Media Center PC
     4.0),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3003
```

On Dec 28, 12:38=EF=BF=BDpm, Tim Shoppa <sho...@trailing-edge.com> wrote:

> On Dec 27, 1:34=EF=BF=BDpm, Gene <mog...@aol.com> wrote:
>
> > Season`s greetings to all...

> > While in England in `91, I picked up a Ford motor car radio receiver.
> > P21 79GB-18K810 =EF=BF=BDHA . =EF=BF=BD Two band , LW & MW .. (166 KHz =
- 285 KHz LW
> > & =EF=BF=BD666KHz =EF=BF=BD- 1500Khz MW =EF=BF=BD+/-) .I would like to=
 extend the LW band as
> > high in frequency as i can , and the MW band as low as i can in
> > frequency..I.F. is 465 kHz...Object : To create a beacon (200KHz -
> > 400 KHz) receiver...
> > Is there anyone out there that has any experience , and or ideas with
> > what i have in mind ?
>
> > TIA =EF=BF=BD Gene =EF=BF=BD WB7NGI
>
> If analog tuning then you add or remove capacitance to each LC and
> hope that the padding can be adjusted or supplemented enough so that
> everything (mixer and front end) tracks. It won't be so much
> "extending" the tuning range but instead will be "shifting" the tuning
> range.
>
> If digital tuning then you'll have to locate the schematic for the PLL
> chipset and see if you can convince the local oscillator to shift far
> enough. With some PLL chipsets there are programming pins or diodes
> that set the allowed range. In many cases, if you don't need the
> original tuning range, you can patch in a divide by two or just change
> the reference oscillator. If you change the reference oscillator then
> the display won't be right but will be mathematically related to the
> actual frequency.
>
> I collect British tabletop radios and am quite familiar with their
> longwave dial on tube-type analog sets (my favorite is when they do
> not list frequencies but only wavelengths) but am not particularly
> familiar with British car radios. My one piece of advice with respect
> to car radios from foreign autos of 70's vintage or older, is to check
> carefully WRT 6V or 12V and WRT to negative ground or positive ground.
>
> Tim N3QE

Tim, thanks for the reply...analog...made in Canada....so i assume it
is a Philco-Ford , unable to find schematic , will have to do some
reverse engineering to to figure out what cap , is what

Thanks , Gene WB7NGI

From -4586554423936455346
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!o28g2000yqh.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Re: Radio conversion
Date: Tue, 29 Dec 2009 19:00:33 -0800 (PST)
Organization: http://groups.google.com
Lines: 13
Message-ID: <56e0812b-c138-4581-88d3-57f862283a93@o28g2000yqh.googlegroups.com>
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
     <c6928f7f-9bf3-4093-ac5a-7fdfd66195ef@c3g2000yqd.googlegroups.com>
     <eda355c6-3ccf-4249-9f3f-f7e2b7717e8f@j19g2000yqk.googlegroups.com>
NNTP-Posting-Host: 71.191.185.32
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1262142033 32265 127.0.0.1 (30 Dec 2009 03:00:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 30 Dec 2009 03:00:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o28g2000yqh.googlegroups.com; posting-host=71.191.185.32;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
     AppleWebKit/532.0 (KHTML, like Gecko) Chrome/3.0.195.38 Safari/
532.0,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3004

On Dec 29, 8:38=A0pm, Gene <mog...@aol.com> wrote:
> Tim, thanks for the reply...analog...made in Canada....so i assume it
> is a Philco-Ford , unable to find schematic , =A0will have to do some
> reverse engineering to to figure out what cap , is what

Internally most of the good AM car radios I've met had mechanically
ganged slug tuning, although variable capacitor tuning existed too.

That's great if you're comfortable adjusting the mechanics of the
radio internally to get the tracking right. Remember, you won't be
broadening the tuning range, you'll be shifting the tuning range.

Tim N3QE



From -6430025103215270143
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news4
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio conversion
Date: Tue, 29 Dec 2009 23:35:23 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 23
```

```
Message-ID: <hhehps01kb6@news4.newsguy.com>
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
     <c6928f7f-9bf3-4093-ac5a-7fdfd66195ef@c3g2000yqd.googlegroups.com>
     <eda355c6-3ccf-4249-9f3f-f7e2b7717e8f@j19g2000yqk.googlegroups.com>
<56e0812b-c138-4581-88d3-57f862283a93@o28g2000yqh.googlegroups.com>
NNTP-Posting-Host: p6d9c26d46cc7c9f4da774cae543c9b2739463322ab6cd3d0.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
In-Reply-To: <56e0812b-c138-4581-88d3-57f862283a93@o28g2000yqh.googlegroups.com>
X-Antivirus: avast! (VPS 091229-0, 12/29/2009), Outbound message
X-Antivirus-Status: Not-Tested
Xref: g2news1.google.com rec.radio.amateur.homebrew:3005

Tim Shoppa wrote:
> On Dec 29, 8:38 pm, Gene <mog...@aol.com> wrote:
>> Tim, thanks for the reply...analog...made in Canada....so i assume it
>> is a Philco-Ford , unable to find schematic ,  will have to do some
>> reverse engineering to to figure out what cap , is what
>
> Internally most of the good AM car radios I've met had mechanically
> ganged slug tuning, although variable capacitor tuning existed too.
>
> That's great if you're comfortable adjusting the mechanics of the
> radio internally to get the tracking right. Remember, you won't be
> broadening the tuning range, you'll be shifting the tuning range.
>
> Tim N3QE


� guess by about 1990 (20 years ago) they had all abandoned the
slug-tuned stages.

I had a '90 era car radio found in the Caribbean.  It locked onto the
9kc European channels.  I'm sure there was some chip jumpering that
would allow tuning to American 10kc channels but I never could find the
info.


From 1664968932003230848
X-Google-Thread: 241b302a50,a749e3d97ecbd9bd
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 30 Dec 2009 00:43:16 -0600
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <hhdtvs$vlq$1@news.eternal-september.org>
In-Reply-To: <hhdtvs$vlq$1@news.eternal-september.org>
```

```
Subject: Re: Bi-directional Linear amp -  news of the weird
Date: Tue, 29 Dec 2009 22:43:17 -0800
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18005
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18005
Message-ID: <Z9qdnRbTsOIZa6fWnZ2dnUVZ_sqdnZ2d@giganews.com>
Lines: 30
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-X7yTIYU8vibI4mlfdv6dr/R5Ptj4fsFy9R/IBDUIL4DguBh6ElCtPkOJD/
y37QLmXhzgl0J6HL2wiAs!+GC7tY6XyNdCLYm7xIbjLpE+ZM72wJsaDdzj038PsxsBU0J+k2UCGE2SM67/
Tv6gBoflMMhdzw==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3006
```

"Kenneth Scharf" <wa2mze@bellsouth.net> wrote in message
news:hhdtvs$vlq$1@news.eternal-september.org...

> Many years ago a friend of mine was repairing a Heath SB200 linear he had
> picked up. The antenna relay needed work and he was replacing the stupid
> RCA connector in the input side of the rig with an SO-239 (why did Heath
> use those RCA connectors for the antenna in all their ham rigs?).
>
> Anyway we were talking about how the linear improved the transmit signal
> strength, but did nothing for the receiver and he wanted to also build a
> small receiver preamp to put inside the linear cabinet, and we both got
> the samw brainstorm, at the same time. Why not wire the linear up so it
> would work in BOTH directions? I suppose a grounded grid preamp using
> tubes with a combined plate dissipation of some 300 watts seems crazy, and
> one's first though would be "you'll blow up the receiver!". But remember
> that those tubes have a power gain of only 13db and that's about the same
> as a 6BA6 rf amp tube. Of course the noise figure of the 572B as a preamp
> probably isn't quit as good as a 6CW4, but you won't notice it much on 20
> meters. Also at the signal levels we are talking about the usual cutoff
> bias for the tubes STILL leaves them in class A for use as a small signal
> preamp!
>
> To make a long story short, we wired the relay up so it would do the
> required switching and tried it. The linear did boost received signals by
> about 13db, just as we expected. Made a difference in the DX contest!

Now that's really, really scary!

Old Chief Lynn, W7LTQ

From 4047551110525883155
X-Google-Thread: 241b302a50,a749e3d97ecbd9bd
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 30 Dec 2009 04:38:39 -0600
From: "Terry" <no@spam.tnx>
Newsgroups: rec.radio.amateur.homebrew
References: <hhdtvs$vlq$1@news.eternal-september.org>
<Z9qdnRbTsOIZa6fWnZ2dnUVZ_sqdnZ2d@giganews.com>
Subject: Re: Bi-directional Linear amp - news of the weird
Date: Wed, 30 Dec 2009 10:38:02 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <S7mdnTttCbMysKbWnZ2dnUVZ8hudnZ2d@pipex.net>
Lines: 18
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.86.174.13
X-Trace: sv3-4bfiCalVB8wRaCr9Ggb40MRMo4o/bewR4e3kEB1BYO8qWvLEf4WG8i8D6RHhR9CMgfMA/
Brma4UwKRh!
zqVS15PzIc6hvs7dyxiJfoe6IMYnGbkn7xiQt6s3xElLUSaZKpECfS4WklLw4S6bp+T7Esw8ZbJ+!
AW9V2qlDnk2CwqNS6XW9fXdU
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3007

"coffelt2" wrote

>> Anyway we were talking about how the linear improved the transmit signal
>> strength, but did nothing for the receiver and he wanted to also build a
>> small receiver preamp to put inside the linear cabinet, and we both got
>> the samw brainstorm, at the same time. Why not wire the linear up so it
>> would work in BOTH directions? I suppose a grounded grid preamp using
>> tubes with a combined plate dissipation of some 300 watts seems crazy,

Try 1000 watts for the combined plate dissipation.

```
>> and one's first though would be "you'll blow up the receiver!".

Just wait until it goes unstable and oscillates. Bye-bye receiver!




From 6937670738182117716
X-Google-Thread: 241b302a50,a749e3d97ecbd9bd
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
news.mixmin.net!feeder.eternal-september.org!eternal-september.org!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Bi-directional Linear amp -  news of the weird
Date: Wed, 30 Dec 2009 10:19:16 -0500
Organization: A noiseless patient Spider
Message-ID: <hhfr0l$knn$1@news.eternal-september.org>
References: <hhdtvs$vlq$1@news.eternal-september.org>
<Z9qdnRbTsOIZa6fWnZ2dnUVZ_sqdnZ2d@giganews.com>
<S7mdnTttCbMysKbWnZ2dnUVZ8hudnZ2d@pipex.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Wed, 30 Dec 2009 15:18:45 +0000 (UTC)
Injection-Info: feeder.eternal-september.org;
     logging-data="21239"; mail-complaints-to="abuse@eternal-september.org"
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
In-Reply-To: <S7mdnTttCbMysKbWnZ2dnUVZ8hudnZ2d@pipex.net>
X-Auth-Sender: U2FsdGVkX18ep6V1bgjaZDzKmMi0xvJLD0TvqtjgIW/wXR382/a8Fg==
Cancel-Lock: sha1:hFx6A8auNwGxga/0K06yFXnJ5FM=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3008

Terry wrote:
> "coffelt2"  wrote
>
>>> Anyway we were talking about how the linear improved the transmit signal
>>> strength, but did nothing for the receiver and he wanted to also build a
>>> small receiver preamp to put inside the linear cabinet, and we both got
>>> the samw brainstorm, at the same time.  Why not wire the linear up so it
>>> would work in BOTH directions?  I suppose a grounded grid preamp using
>>> tubes with a combined plate dissipation of some 300 watts seems crazy,
>
> Try 1000 watts for the combined plate dissipation.
>
>
The 572B actually had only 150 watts plate dissipation and the SB200
used two of them.  The T160L version of this tube had a 160 watt plate
dissipation.  Many SB200's grossly overloaded these tubes and got away
with it.
```

>>> and one's first though would be "you'll blow up the receiver!".
>
> Just wait until it goes unstable and oscillates. Bye-bye receiver!
>

The odds of a pair of 572B's in grounded grid oscillating were very slim, at least at HF. VHF parasitics were another story, but the SB200 was well built in this regard. I'm sure the rig was stable even without an antenna connected. IIRC we thought of putting in a pair of back to back 1N4007's on the rig side during receive just in case.

```
From -365066584787941292
X-Google-Thread: 241b302a50,a749e3d97ecbd9bd
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 30 Dec 2009 11:52:06 -0600
From: "Terry" <no@spam.tnx>
Newsgroups: rec.radio.amateur.homebrew
References: <hhdtvs$vlq$1@news.eternal-september.org>
<Z9qdnRbTsOIZa6fWnZ2dnUVZ_sqdnZ2d@giganews.com>
<S7mdnTttCbMysKbWnZ2dnUVZ8hudnZ2d@pipex.net> <hhfr0l$knn$1@news.eternal-
september.org>
Subject: Re: Bi-directional Linear amp -  news of the weird
Date: Wed, 30 Dec 2009 17:51:54 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <RtOdnZV8IJ7bDqbWnZ2dnUVZ7oqdnZ2d@pipex.net>
Lines: 25
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.86.174.13
X-Trace: sv3-bU2y8sPPbtMrFqBwaEppNoSRoXW7VjOXaStLNjOtGqXf+0N6sVXC16srQB/QOT/
j1xasnbJiyu5rLhP!
OtRCkUlVFzIJc0uWNgqQ4icP0EzJatBbaeZ9XBxPpf7YGjLiQdn6EfZuoUNCERVdINEDFxUtRqN8!/
liwi2JNDZuRorMWCxkuyz1A
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3009
```

"Kenneth Scharf" wrote
>>
>>>> Anyway we were talking about how the linear improved the transmit
>>>> signal strength, but did nothing for the receiver and he wanted to also
>>>> build a small receiver preamp to put inside the linear cabinet, and we
>>>> both got the samw brainstorm, at the same time. Why not wire the
>>>> linear up so it would work in BOTH directions? I suppose a grounded
>>>> grid preamp using tubes with a combined plate dissipation of some 300
>>>> watts seems crazy,
>>
>> Try 1000 watts for the combined plate dissipation.
>>
>>
> The 572B actually had only 150 watts plate dissipation and the SB200 used
> two of them. The T160L version of this tube had a 160 watt plate
> dissipation. Many SB200's grossly overloaded these tubes and got away
> with it.

Sorry - I misread the OP as an SB220

```
From -1811716665023863O3
X-Google-Thread: 241b302a50,103ffd24ca85bf30,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k19g2000yqc.googlegroups.com!not-for-
mail
From: Pirata <iz8qlk@live.it>
Newsgroups: rec.radio.amateur.homebrew
Subject: Kenwood SM-220 Station Monitor (no BS-8) Oscilloscope
Date: Wed, 30 Dec 2009 13:04:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 14
Message-ID: <02301ec8-67a9-44e5-bd4b-6904a82ab889@k19g2000yqc.googlegroups.com>
NNTP-Posting-Host: 93.147.212.189
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1262207069 14472 127.0.0.1 (30 Dec 2009 21:04:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 30 Dec 2009 21:04:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k19g2000yqc.googlegroups.com; posting-host=93.147.212.189;
     posting-account=o8DqbAoAAAB3hY3586k6SyRvp7ZBLuBs
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; it; rv:1.9.0.16)
     Gecko/2009120208 Firefox/3.0.16 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3010
```

Station monitor used but in perfect aesthetics conditions (see in
photo), there are only some imperfections due to the time.
The electronics is perfect, and the catodic ray tube works perfectly,
the item has been used as oscilloscope up to few days ago.

The auction includes:
Original box,
manual copy (or if you don't want it, it's possible to download it
here)
Kenwood SM 220

The optional BS-8 is not included

http://cgi.ebay.it/ws/eBayISAPI.dll?ViewItem&item=110475577587

From 3957378797386500005
X-Google-Thread: 241b302a50,a749e3d97ecbd9bd
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!b2g2000yqi.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Bi-directional Linear amp - news of the weird
Date: Wed, 30 Dec 2009 14:55:59 -0800 (PST)
Organization: http://groups.google.com
Lines: 47
Message-ID: <c5e353ac-fb0e-4760-8e83-25cb1b431e3a@b2g2000yqi.googlegroups.com>
References: <hhdtvs$vlq$1@news.eternal-september.org>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1262213759 450 127.0.0.1 (30 Dec 2009 22:55:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 30 Dec 2009 22:55:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b2g2000yqi.googlegroups.com; posting-host=71.112.191.81;
posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.6)
Gecko/20091201 Firefox/3.5.6 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3011

On Dec 29, 1:57=A0pm, Kenneth Scharf <wa2...@bellsouth.net> wrote:
> Many years ago a friend of mine was repairing a Heath SB200 linear he
> had picked up. =A0The antenna relay needed work and he was replacing the
> stupid RCA connector in the input side of the rig with an SO-239 (why
> did Heath use those RCA connectors for the antenna in all their ham
> rigs?).

>
> Anyway we were talking about how the linear improved the transmit signal
> strength, but did nothing for the receiver and he wanted to also build a
> small receiver preamp to put inside the linear cabinet, and we both got
> the samw brainstorm, at the same time. =A0Why not wire the linear up so i=
t
> would work in BOTH directions? =A0I suppose a grounded grid preamp using
> tubes with a combined plate dissipation of some 300 watts seems crazy,
> and one's first though would be "you'll blow up the receiver!". =A0But
> remember that those tubes have a power gain of only 13db and that's
> about the same as a 6BA6 rf amp tube. =A0Of course the noise figure of th=
e
> 572B as a preamp probably isn't quit as good as a 6CW4, but you won't
> notice it much on 20 meters. =A0Also at the signal levels we are talking
> about the usual cutoff bias for the tubes STILL leaves them in class A
> for use as a small signal preamp!
>
> To make a long story short, we wired the relay up so it would do the
> required switching and tried it. =A0The linear did boost received signals
> by about 13db, just as we expected. =A0Made a difference in the DX contes=
t!

There's something to be said for an amplifier with high IP3. One way
to get that is to use high-power devices in the amplifier. It's not
to hard to find modern solid-state devices with fairly high power
dissipation and also low noise figure. One of the obvious problems is
that such an amplifier may have the potential to blow up things
following it...

Ulrich Rohde published an article in Ham Radio magazine some thirty
years ago about a way to get a good noise figure and extremely good
IP3 in an amplifier; his example was based on CATV transistors of
modest dissipation. The article seemed to leave quite a bit to the
imagination of the reader, and I've never seen any commercial products
that come close to the performance he suggested should be possible --
not even from the company in New Jersey of which he's a director. I'd
be really happy to find such an amplifier just now... (NF ~ 2dB, TOI >
+70dBm, on the order of a watt bias power, per Rohde).

Cheers,
Tom

From 7878115985165571249
X-Google-Thread: 241b302a50,103ffd24ca85bf30,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l30g2000yqb.googlegroups.com!not-for-mail
From: Pirata <iz8qlk@live.it>
Newsgroups: rec.radio.amateur.homebrew
Subject: Kenwood SM-220 Station Monitor (no BS-8) Oscilloscope

Date: Thu, 31 Dec 2009 03:14:18 -0800 (PST)
Organization: http://groups.google.com
Lines: 14
Message-ID: <381ced2e-2e5b-4d89-9961-edc770742134@l30g2000yqb.googlegroups.com>
NNTP-Posting-Host: 93.147.212.189
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1262258058 13886 127.0.0.1 (31 Dec 2009 11:14:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 31 Dec 2009 11:14:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l30g2000yqb.googlegroups.com; posting-host=93.147.212.189;
     posting-account=o8DqbAoAAAB3hY3586k6SyRvp7ZBLuBs
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; it; rv:1.9.0.16)
     Gecko/2009120208 Firefox/3.0.16 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3012

Station monitor used but in perfect aesthetics conditions (see in photo), there are only some imperfections due to the time.
The electronics is perfect, and the catodic ray tube works perfectly, the item has been used as oscilloscope up to few days ago.

The auction includes:
Original box,
 manual copy (or if you don't want it, it's possible to download it here)
Kenwood SM 220

The optional BS-8 is not included

http://cgi.ebay.com/Kenwood-SM-220-Station-Monitor-no-BS-8-Oscilloscope_W0QQitemZ110475765945QQcmdZViewItemQQptZAccessori_per_Radioamatori?hash=item19b8de68b9

From 6548351925340921005
X-Google-Thread: 241b302a50,a749e3d97ecbd9bd
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!188.40.43.213.MISMATCH!feeder.eternal-september.org!eternal-september.org!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Bi-directional Linear amp - news of the weird
Date: Thu, 31 Dec 2009 11:05:25 -0500
Organization: A noiseless patient Spider
Message-ID: <hhii34$bn6$1@news.eternal-september.org>
References: <hhdtvs$vlq$1@news.eternal-september.org> <c5e353ac-fb0e-4760-8e83-25cb1b431e3a@b2g2000yqi.googlegroups.com>
Mime-Version: 1.0

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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 31 Dec 2009 16:04:52 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-
host="8YW2IR6tLBBEYG+0btgNag";
     logging-data="12006";  posting-
account="U2FsdGVkX1+S52OvQTFyZirsaBsUZllTP4/8RSqWXxuOMlzTL84rRQ=="
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
In-Reply-To: <c5e353ac-fb0e-4760-8e83-25cb1b431e3a@b2g2000yqi.googlegroups.com>
Cancel-Lock: sha1:/FCBbSaTemafYYOiZ0kC97LseIE=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3013

K7ITM wrote:
> On Dec 29, 1:57 pm, Kenneth Scharf <wa2...@bellsouth.net> wrote:
>> Many years ago a friend of mine was repairing a Heath SB200 linear he
>> had picked up.  The antenna relay needed work and he was replacing the
>> stupid RCA connector in the input side of the rig with an SO-239 (why
>> did Heath use those RCA connectors for the antenna in all their ham
>> rigs?).
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>> Anyway we were talking about how the linear improved the transmit signal
>> strength, but did nothing for the receiver and he wanted to also build a
>> small receiver preamp to put inside the linear cabinet, and we both got
>> the samw brainstorm, at the same time.  Why not wire the linear up so it
>> would work in BOTH directions?  I suppose a grounded grid preamp using
>> tubes with a combined plate dissipation of some 300 watts seems crazy,
>> and one's first though would be "you'll blow up the receiver!".  But
>> remember that those tubes have a power gain of only 13db and that's
>> about the same as a 6BA6 rf amp tube.  Of course the noise figure of the
>> 572B as a preamp probably isn't quit as good as a 6CW4, but you won't
>> notice it much on 20 meters.  Also at the signal levels we are talking
>> about the usual cutoff bias for the tubes STILL leaves them in class A
>> for use as a small signal preamp!
>>
>> To make a long story short, we wired the relay up so it would do the
>> required switching and tried it.  The linear did boost received signals
>> by about 13db, just as we expected.  Made a difference in the DX contest!
>
> There's something to be said for an amplifier with high IP3.  One way
> to get that is to use high-power devices in the amplifier.  It's not
> to hard to find modern solid-state devices with fairly high power
> dissipation and also low noise figure.  One of the obvious problems is
> that such an amplifier may have the potential to blow up things
> following it...
>
ONLY IF the amplifier is allowed to become unstable.  It can't generate
any more power output than the input signal multiplied by the power
gain, so unless a KW station a few hundred feet away fires up you're safe.
> Ulrich Rohde published an article in Ham Radio magazine some thirty
> years ago about a way to get a good noise figure and extremely good
> IP3 in an amplifier; his example was based on CATV transistors of
> modest dissipation.  The article seemed to leave quite a bit to the
> imagination of the reader, and I've never seen any commercial products
```

> that come close to the performance he suggested should be possible --
> not even from the company in New Jersey of which he's a director. I'd
> be really happy to find such an amplifier just now... (NF ~ 2dB, TOI >
> +70dBm, on the order of a watt bias power, per Rohde).
I've seen preamps using 2n3866 transistors (sometimes TWO in push-pull)
which come close to meeting this description.

>
> Cheers,
> Tom

From 4424889817859639009
X-Google-Thread: 241b302a50,a749e3d97ecbd9bd
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!k19g2000yqc.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Bi-directional Linear amp - news of the weird
Date: Thu, 31 Dec 2009 09:32:53 -0800 (PST)
Organization: http://groups.google.com
Lines: 30
Message-ID: <aeeb0602-7b9e-475d-8c68-6613015b4441@k19g2000yqc.googlegroups.com>
References: <hhdtvs$vlq$1@news.eternal-september.org> <c5e353ac-fb0e-4760-8e83-25cb1b431e3a@b2g2000yqi.googlegroups.com>
     <hhii34$bn6$1@news.eternal-september.org>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1262280774 24399 127.0.0.1 (31 Dec 2009 17:32:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 31 Dec 2009 17:32:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k19g2000yqc.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.6)
     Gecko/20091201 Firefox/3.5.6 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3014

On Dec 31, 8:05=A0am, Kenneth Scharf <wa2...@bellsouth.net> wrote:
> K7ITM wrote:
...
> > One of the obvious problems is
> > that such an amplifier may have the potential to blow up things
> > following it...
>
> ONLY IF the amplifier is allowed to become unstable. =A0It can't generate
> any more power output than the input signal multiplied by the power

> gain, so unless a KW station a few hundred feet away fires up you're safe=
> .
...

Well...that depends on what the following stages can tolerate, the gain of the amplifier, and the signal environment you're in. I know that European AM broadcast stations in the 7MHz band can put signals into the East Coast of the US that deliver 0dBm to the output of some hams antennas, and from what I hear, listeners at many locations in Europe have to deal with even larger signals. When the phases of such signals all line up, the peak voltage can be substantial. It's at least something to beware of.

Do you happen to have any more definite references to preamps with very high TOI? I've had trouble finding anything better than about +56dBm in commercial amplifiers that don't also draw several watts (or more!) quiescent. What I'm looking for needs to be broadband, 500kHz--30MHz.

Cheers,
Tom

From 4120307487963727059
X-Google-Thread: a4a23d5f63,b325263f3719e822,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!209.197.12.242.MISMATCH!nx01.iad01.newshosting.com!newshosting.com!198.186.194.249.MISMATCH!transit3.readnews.com!news-out.readnews.com!transit4.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1259650800@panix.com>
Followup-To: poster
Date: 1 Jan 2010 02:00:03 -0500
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 03 Feb 2010 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1262329201@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com (rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1262329203 22124 166.84.1.2 (1 Jan 2010 07:00:03 GMT)
X-Complaints-To: abuse@panix.com

NNTP-Posting-Date: Fri, 1 Jan 2010 07:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
Xref: g2news1.google.com rec.radio.amateur.antenna:14299 rec.radio.amateur.dx:526 rec.radio.amateur.equipment:1693 rec.radio.amateur.homebrew:3015 rec.radio.amateur.misc:4522 rec.radio.amateur.policy:24840 rec.radio.amateur.space:302 rec.radio.info:1134

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.

```
From 7451002832577068032
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!35g2000yqa.googlegroups.com!not-for-
mail
From: joeturn <joeturn2000@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio conversion
Date: Tue, 5 Jan 2010 14:17:22 -0800 (PST)
Organization: http://groups.google.com
Lines: 21
Message-ID: <ec67b8b7-d943-4c73-97e9-d5f33fbecb7f@35g2000yqa.googlegroups.com>
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
     <c6928f7f-9bf3-4093-ac5a-7fdfd66195ef@c3g2000yqd.googlegroups.com>
     <eda355c6-3ccf-4249-9f3f-f7e2b7717e8f@j19g2000yqk.googlegroups.com>
     <56e0812b-c138-4581-88d3-57f862283a93@o28g2000yqh.googlegroups.com>
NNTP-Posting-Host: 24.95.252.127
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1262729842 25039 127.0.0.1 (5 Jan 2010 22:17:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 5 Jan 2010 22:17:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 35g2000yqa.googlegroups.com; posting-host=24.95.252.127;
     posting-account=TOBUfggAAAC5Ow7sgid-1fbF1N9O6T1h
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
     Trident/4.0; Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1) ; .NET
     CLR 1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0; .NET CLR 2.0.50727;
     .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729; yie8),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3016
```

On Dec 29 2009, 10:00=A0pm, Tim Shoppa <sho...@trailing-edge.com> wrote:

> On Dec 29, 8:38=A0pm, Gene <mog...@aol.com> wrote:
>
> > Tim, thanks for the reply...analog...made in Canada....so i assume it
> > is a Philco-Ford , unable to find schematic , =A0will have to do some
> > reverse engineering to to figure out what cap , is what
>
> Internally most of the good AM car radios I've met had mechanically
> ganged slug tuning, although variable capacitor tuning existed too.

I once broadened the band of a Titan 4 reciever by
adding a varible capacitor with a spst it might need another varible

capacitor with a spdt to get the other end of the spectrum.

>
> That's great if you're comfortable adjusting the mechanics of the
> radio internally to get the tracking right. Remember, you won't be
> broadening the tuning range, you'll be shifting the tuning range.
>
> Tim N3QE

From -333575142413960244
X-Google-Thread: a4a23d5f63,734493e75beb3c11,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!novia!news-out.readnews.com!
transit4.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1260169500@panix.com>
Followup-To: poster
Date: 7 Jan 2010 02:05:01 -0500
Organization: rec.radio.info Moderation Team
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Feb 2010 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1262847900@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1262847901 11886 166.84.1.2 (7 Jan 2010 07:05:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 7 Jan 2010 07:05:01 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:14430 rec.radio.amateur.dx:531
rec.radio.amateur.equipment:1697 rec.radio.amateur.homebrew:3017
rec.radio.amateur.misc:4532 rec.radio.amateur.policy:24916 rec.radio.info:1145

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.2 2009/11/25 14:41:01
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

One significant omission, requiring immediate updates, for this article |
is that it does not mention newer amateur radio newsgroups created since |
it was written, including: |

rec.radio.amateur.antenna |
rec.radio.amateur.boatanchors |
rec.radio.amateur.dx |
rec.radio.amateur.equipment |
rec.radio.amateur.homebrew |
rec.radio.amateur.moderated |
rec.radio.amateur.space |

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

From -6533888447924120293
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!m3g2000yqf.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio conversion
Date: Thu, 7 Jan 2010 07:38:57 -0800 (PST)
Organization: http://groups.google.com
Lines: 46
Message-ID: <442c9a74-1a9d-478a-a0dd-68878f2c8456@m3g2000yqf.googlegroups.com>
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
    <c6928f7f-9bf3-4093-ac5a-7fdfd66195ef@c3g2000yqd.googlegroups.com>
    <eda355c6-3ccf-4249-9f3f-f7e2b7717e8f@j19g2000yqk.googlegroups.com>
    <56e0812b-c138-4581-88d3-57f862283a93@o28g2000yqh.googlegroups.com>
    <ec67b8b7-d943-4c73-97e9-d5f33fbecb7f@35g2000yqa.googlegroups.com>
NNTP-Posting-Host: 76.226.135.175
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1262878737 12791 127.0.0.1 (7 Jan 2010 15:38:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 7 Jan 2010 15:38:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m3g2000yqf.googlegroups.com; posting-host=76.226.135.175;
    posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.6)
    Gecko/20091201 Firefox/3.5.6,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3018

Hey OM:

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thru 1600Khz was the band back then. My converter could put 3 local
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only active component was the LO. I used a CB rock which were dirt
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band down to the AM band.

I made a version that plugged inline with the car antenna and the car
radio, that could be switched in and out.
I couldn't make enough of them, Was the best selling product I ever
made.

73 OM
de n8zu

On Jan 5, 5:17=A0pm, joeturn <joeturn2...@yahoo.com> wrote:
> On Dec 29 2009, 10:00=A0pm, Tim Shoppa <sho...@trailing-edge.com> wrote:
>
> > On Dec 29, 8:38=A0pm, Gene <mog...@aol.com> wrote:
>

```
> > > Tim, thanks for the reply...analog...made in Canada....so i assume it
> > > is a Philco-Ford , unable to find schematic , =A0will have to do some
> > > reverse engineering to to figure out what cap , is what
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>
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>
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> > That's great if you're comfortable adjusting the mechanics of the
> > radio internally to get the tracking right. Remember, you won't be
> > broadening the tuning range, you'll be shifting the tuning range.
>
> > Tim N3QE



From -9310415952984992l5
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!r24g2000yqd.googlegroups.com!not-for-
mail
From: joeturn <joeturn2000@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio conversion
Date: Thu, 7 Jan 2010 09:03:34 -0800 (PST)
Organization: http://groups.google.com
Lines: 68
Message-ID: <6097ca98-105e-4e1d-a419-088a717111c0@r24g2000yqd.googlegroups.com>
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
     <c6928f7f-9bf3-4093-ac5a-7fdfd66195ef@c3g2000yqd.googlegroups.com>
     <eda355c6-3ccf-4249-9f3f-f7e2b7717e8f@j19g2000yqk.googlegroups.com>
     <56e0812b-c138-4581-88d3-57f862283a93@o28g2000yqh.googlegroups.com>
     <ec67b8b7-d943-4c73-97e9-d5f33fbecb7f@35g2000yqa.googlegroups.com>
     <442c9a74-1a9d-478a-a0dd-68878f2c8456@m3g2000yqf.googlegroups.com>
NNTP-Posting-Host: 24.95.252.127
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1262883815 21198 127.0.0.1 (7 Jan 2010 17:03:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 7 Jan 2010 17:03:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r24g2000yqd.googlegroups.com; posting-host=24.95.252.127;
     posting-account=TOBUfggAAAC5Ow7sgid-1fbF1N9O6T1h
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
     Trident/4.0; Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1) ; .NET
     CLR 1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0; .NET CLR 2.0.50727;
     .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729; yie8),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3019

On Jan 7, 10:38=A0am, raypsi <rborow...@gmail.com> wrote:
> Hey OM:
>
> The only way to make that work is with a converter.
> Back in the day before police scanners, I made a converter that
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>
> > > Tim N3QE- Hide quoted text -
```

>
> - Show quoted text -

Raypsi

You cant find the specs on a converter anymore!
I probably used one of your gadgits back in the 70s, the car am radio was converted to cb band!

My titan 4 reciever had a trimmer just above the vfo to zero its frequency with the dial reading!

I simply put the trimmers center point to a toggle switch that led to two other varible capacitors and could go up or below the cb band, tuning each to a specified value!

I would love to be able to get a converter to fill in the gaps on a ubc 780 xlt.
A converter to allow it to start at 100 hz and go to 4 gigs will be your next best seller without having to use the pc software;)

```
From 2016014909286242574
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 07 Jan 2010 18:32:04 -0600
Date: Fri, 08 Jan 2010 00:32:03 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio conversion
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
     <c6928f7f-9bf3-4093-ac5a-7fdfd66195ef@c3g2000yqd.googlegroups.com>
     <eda355c6-3ccf-4249-9f3f-f7e2b7717e8f@j19g2000yqk.googlegroups.com>
     <56e0812b-c138-4581-88d3-57f862283a93@o28g2000yqh.googlegroups.com>
     <ec67b8b7-d943-4c73-97e9-d5f33fbecb7f@35g2000yqa.googlegroups.com>
<442c9a74-1a9d-478a-a0dd-68878f2c8456@m3g2000yqf.googlegroups.com>
In-Reply-To: <442c9a74-1a9d-478a-a0dd-68878f2c8456@m3g2000yqf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <s-6dnSjcKZyZ4NvWnZ2dnUVZ_gadnZ2d@bright.net>
Lines: 48
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-2S5AqAiHUfOXMYwtWt06GDv6PJm+6keRpIiUNIDBH8GItM+/
9ABGwoFuDMe1voxkUjKgc6pzW1Bu75x!c/
```

```
xvvtDq7ICnn15VdsZyH39wNSrm+WfskH6L8sc3WUieUCQgxiUnDxHPeWqRmbQOmRcm8dRZfQ06!
guZZYGrYXw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3020

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>
>
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>>> Tim N3QE
>

How did that work?  Wasn't the police band using FM back then like they
```

do today? I suppose the RF signal may have had enough "AM" component
perhaps?

```
From -4837762084684200706
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 07 Jan 2010 19:26:12 -0600
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
     <c6928f7f-9bf3-4093-ac5a-7fdfd66195ef@c3g2000yqd.googlegroups.com>
     <eda355c6-3ccf-4249-9f3f-f7e2b7717e8f@j19g2000yqk.googlegroups.com>
     <56e0812b-c138-4581-88d3-57f862283a93@o28g2000yqh.googlegroups.com>
     <ec67b8b7-d943-4c73-97e9-d5f33fbecb7f@35g2000yqa.googlegroups.com>
<442c9a74-1a9d-478a-a0dd-68878f2c8456@m3g2000yqf.googlegroups.com>
<s-6dnSjcKZyZ4NvWnZ2dnUVZ_gadnZ2d@bright.net>
Subject: Re: Radio conversion
Date: Thu, 7 Jan 2010 20:26:48 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <wOKdnb8u5ZIpFNvWnZ2dnUVZ_gGdnZ2d@earthlink.com>
Lines: 31
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.225.35.98
X-Trace: sv3-
MNJtJ5Ugf5MZv7FmSB4U4Iczcqqr8zxu7+3jHaUtMywWef52wGZ6rWklPxFeZyX3MDhan54dz05+QNL!K/
NLxx4kXk9Y1NF2/4NYJEm3RhBVAo2Lx2rlLBPrqiEdK3LAPeKIFMSwRClRA/W5CJufNBuJu6RQ!
AgDcQVgeFpkxL5RfHoSSGo3rNAPCIaI+upmxKA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3021
```

"Scott" <acepilotREMOVE@bloomer.net> wrote in message
news:s-6dnSjcKZyZ4NvWnZ2dnUVZ_gadnZ2d@bright.net...

> raypsi wrote:
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>>
>

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> today? I suppose the RF signal may have had enough "AM" component
> perhaps?
>

It is easy to detect FM on an AM radio by using slope detection. Not the
best way, but it works.

http://www.tpub.com/neets/book12/51c.htm

```
From -2422851119047793866
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 08 Jan 2010 04:09:54 -0600
Date: Fri, 08 Jan 2010 10:09:54 +0000
From: highlandham <highlandham_nospam@rfburns.com>
User-Agent: Thunderbird 2.0.0.23 (X11/20090817)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio conversion
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
     <c6928f7f-9bf3-4093-ac5a-7fdfd66195ef@c3g2000yqd.googlegroups.com>
     <eda355c6-3ccf-4249-9f3f-f7e2b7717e8f@j19g2000yqk.googlegroups.com>
     <56e0812b-c138-4581-88d3-57f862283a93@o28g2000yqh.googlegroups.com>
     <ec67b8b7-d943-4c73-97e9-d5f33fbecb7f@35g2000yqa.googlegroups.com>
<442c9a74-1a9d-478a-a0dd-68878f2c8456@m3g2000yqf.googlegroups.com>
<s-6dnSjcKZyZ4NvWnZ2dnUVZ_gadnZ2d@bright.net>
<wOKdnb8u5ZIpFNvWnZ2dnUVZ_gGdnZ2d@earthlink.com>
In-Reply-To: <wOKdnb8u5ZIpFNvWnZ2dnUVZ_gGdnZ2d@earthlink.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <nOmdnZdYC8fvmdrWnZ2dnUVZ8kFi4p2d@pipex.net>
Lines: 6
X-Usenet-Provider: http://www.giganews.com
```

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NNTP-Posting-Host: 88.110.222.93
X-Trace: sv3-JVDC2+CoU6y/
vxxuRDWlg0wWgZH1uSU1FSCe5i2NEMxlaXjWhQYs69lQENjmoqh9YnoMhEyZkucvV1e!
ShOyfLiDuTsDsMFyu+DLXrQCtsHx+ydG7qvnY558tIsG556zD7t0qhY95R8+1BjT1hsdvBQOky4O!
0VdazoxVrTb8TXNXS+hLNQ8p1g==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3022
```

> http://www.tpub.com/neets/book12/51c.htm

==

Tnx for the above excellent (wide-ranging) reference.

Frank   GM0CSZ / KN6WH

```
From -3964135384378482076
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!j4g2000yqe.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio conversion
Date: Fri, 8 Jan 2010 06:11:53 -0800 (PST)
Organization: http://groups.google.com
Lines: 65
Message-ID: <a046828a-8b3b-4672-b851-d78c523075ea@j4g2000yqe.googlegroups.com>
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
     <c6928f7f-9bf3-4093-ac5a-7fdfd66195ef@c3g2000yqd.googlegroups.com>
     <eda355c6-3ccf-4249-9f3f-f7e2b7717e8f@j19g2000yqk.googlegroups.com>
     <56e0812b-c138-4581-88d3-57f862283a93@o28g2000yqh.googlegroups.com>
     <ec67b8b7-d943-4c73-97e9-d5f33fbecb7f@35g2000yqa.googlegroups.com>
     <442c9a74-1a9d-478a-a0dd-68878f2c8456@m3g2000yqf.googlegroups.com>
     <6097ca98-105e-4e1d-a419-088a717111c0@r24g2000yqd.googlegroups.com>
NNTP-Posting-Host: 76.226.228.11
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1262959913 7791 127.0.0.1 (8 Jan 2010 14:11:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 8 Jan 2010 14:11:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j4g2000yqe.googlegroups.com; posting-host=76.226.228.11;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
```

X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3023

Hey OM:

Yeah, a converter to gets the blocked cell phone bands. They making
those things in some ones garrage in Hong Kong.
Naw the top selling device would be a cell phone jammer. Flick it on
and all the cell phones within a certain radius go down.
A jammer would be highly illegal though, even a police converter
nowadays would be the same: illegal.

73 OM
de n8zu

> > On Jan 5, 5:17=A0pm, joeturn <joeturn2...@yahoo.com> wrote:
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> > > > Tim N3QE- Hide quoted text -
>
> > - Show quoted text -
>
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```
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>
> - Show quoted text -
```

```
From -1575489409224840918
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!m26g2000yqb.googlegroups.com!not-for-
mail
From: joeturn <joeturn2000@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio conversion
Date: Sun, 10 Jan 2010 09:49:10 -0800 (PST)
Organization: http://groups.google.com
Lines: 79
Message-ID: <bbe514a8-080e-4034-9969-3e85cefff92f@m26g2000yqb.googlegroups.com>
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
     <c6928f7f-9bf3-4093-ac5a-7fdfd66195ef@c3g2000yqd.googlegroups.com>
     <eda355c6-3ccf-4249-9f3f-f7e2b7717e8f@j19g2000yqk.googlegroups.com>
     <56e0812b-c138-4581-88d3-57f862283a93@o28g2000yqh.googlegroups.com>
     <ec67b8b7-d943-4c73-97e9-d5f33fbecb7f@35g2000yqa.googlegroups.com>
     <442c9a74-1a9d-478a-a0dd-68878f2c8456@m3g2000yqf.googlegroups.com>
     <6097ca98-105e-4e1d-a419-088a717111c0@r24g2000yqd.googlegroups.com>
     <a046828a-8b3b-4672-b851-d78c523075ea@j4g2000yqe.googlegroups.com>
NNTP-Posting-Host: 24.95.252.127
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1263145750 16979 127.0.0.1 (10 Jan 2010 17:49:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 10 Jan 2010 17:49:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m26g2000yqb.googlegroups.com; posting-host=24.95.252.127;
     posting-account=TOBUfggAAAC5Ow7sgid-1fbF1N9O6T1h
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
     Trident/4.0; Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1) ; .NET
     CLR 1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0; .NET CLR 2.0.50727;
     .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729; yie8),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3024

On Jan 8, 9:11=A0am, raypsi <rborow...@gmail.com> wrote:
> Hey OM:
>
> Yeah, a converter to gets the blocked cell phone bands. They making
> those things in some ones garrage in Hong Kong.
> Naw the top selling device would be a cell phone jammer. Flick it on
> and all the cell phones within a certain radius go down.
> A jammer would be highly illegal though, even a police converter
> nowadays would be the same: illegal.
>
> 73 OM
> de n8zu
>
>
>
> > > On Jan 5, 5:17=A0pm, joeturn <joeturn2...@yahoo.com> wrote:
>
> > > > On Dec 29 2009, 10:00=A0pm, Tim Shoppa <sho...@trailing-edge.com> w=
rote:
>
> > > > > On Dec 29, 8:38=A0pm, Gene <mog...@aol.com> wrote:
>
> > > > > > Tim, thanks for the reply...analog...made in Canada....so i ass=
ume it
> > > > > > is a Philco-Ford , unable to find schematic , =A0will have to d=
o some
> > > > > > reverse engineering to to figure out what cap , is what
>
> > > > > Internally most of the good AM car radios I've met had mechanical=
ly
> > > > > ganged slug tuning, although variable capacitor tuning existed to=
o.
>
> > > > I once broadened the band of a Titan 4 reciever by
> > > > adding a varible capacitor with a spst it might need another =A0var=
ible
> > > > capacitor with a spdt to get the other end of the spectrum.
>
> > > > > That's great if you're comfortable adjusting the mechanics of the
> > > > > radio internally to get the tracking right. Remember, you won't b=
e
> > > > > broadening the tuning range, you'll be shifting the tuning range.
>
> > > > > Tim N3QE- Hide quoted text -
>
> > > - Show quoted text -
>
> > Raypsi
>
```

```
> > You cant find the specs on a converter anymore!
> > I probably used one of your gadgits back in the 70s, the car am radio
> > was converted to cb band!
>
> > My titan 4 reciever had a trimmer just above the vfo to zero its
> > frequency with the dial reading!
>
> > I simply put the trimmers center point to a toggle switch that led to
> > two other varible capacitors and could go up or below the cb band,
> > tuning each to a specified value!
>
> > I would love to be able to get a converter to fill in the gaps on a
> > ubc 780 xlt.
> > A converter to allow it to start at 100 hz and go to 4 gigs will be
> > your next best seller without having to use the pc software;)- Hide quo=
ted text -
>
> > - Show quoted text -- Hide quoted text -
>
> - Show quoted text -

No the police bands are wide open they dont use digital because of the
range. They all still use analog because of its dependability!

They do use cell phones to communicate privately on digital,but theirs
still that problem of 40 kz between transmit and recieve to over come.

That only got you a dependent pimp or drug dealer.The cordless phones
are still of interest however,the scanners that can get into the
2-4gigs are too expensive for the ordinary joe<I;-)


From 7506488872684767412
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
r5g2000yqb.googlegroups.com!not-for-mail
From: joeturn <joeturn2000@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio conversion
Date: Sun, 10 Jan 2010 09:54:47 -0800 (PST)
Organization: http://groups.google.com
Lines: 6
Message-ID: <38b2a2ac-26df-46e9-9cf5-ad3e9989ad78@r5g2000yqb.googlegroups.com>
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
     <c6928f7f-9bf3-4093-ac5a-7fdfd66195ef@c3g2000yqd.googlegroups.com>
     <eda355c6-3ccf-4249-9f3f-f7e2b7717e8f@j19g2000yqk.googlegroups.com>
     <56e0812b-c138-4581-88d3-57f862283a93@o28g2000yqh.googlegroups.com>
     <ec67b8b7-d943-4c73-97e9-d5f33fbecb7f@35g2000yqa.googlegroups.com>
     <442c9a74-1a9d-478a-a0dd-68878f2c8456@m3g2000yqf.googlegroups.com>
     <6097ca98-105e-4e1d-a419-088a717111c0@r24g2000yqd.googlegroups.com>
     <a046828a-8b3b-4672-b851-d78c523075ea@j4g2000yqe.googlegroups.com>
     <bbe514a8-080e-4034-9969-3e85cefff92f@m26g2000yqb.googlegroups.com>
NNTP-Posting-Host: 24.95.252.127
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1263146087 19560 127.0.0.1 (10 Jan 2010 17:54:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 10 Jan 2010 17:54:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r5g2000yqb.googlegroups.com; posting-host=24.95.252.127;
     posting-account=TOBUfggAAAC5Ow7sgid-1fbF1N9O6T1h
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
     Trident/4.0; Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1) ; .NET
     CLR 1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0; .NET CLR 2.0.50727;
     .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729; yie8),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3025
```

PS

The authorities/military are the only ones that have a need to jam RF
(a cell phone) but those are all ready furnished them!

http://www.sesp.com/

```
From 6918198432780534986
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 10 Jan 2010 16:26:02 -0600
Date: Sun, 10 Jan 2010 22:26:01 +0000
From: highlandham <highlandham_nospam@rfburns.com>
User-Agent: Thunderbird 2.0.0.23 (X11/20090817)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio conversion
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
     <c6928f7f-9bf3-4093-ac5a-7fdfd66195ef@c3g2000yqd.googlegroups.com>
     <eda355c6-3ccf-4249-9f3f-f7e2b7717e8f@j19g2000yqk.googlegroups.com>
     <56e0812b-c138-4581-88d3-57f862283a93@o28g2000yqh.googlegroups.com>
     <ec67b8b7-d943-4c73-97e9-d5f33fbecb7f@35g2000yqa.googlegroups.com>
     <442c9a74-1a9d-478a-a0dd-68878f2c8456@m3g2000yqf.googlegroups.com>
     <6097ca98-105e-4e1d-a419-088a717111c0@r24g2000yqd.googlegroups.com>
     <a046828a-8b3b-4672-b851-d78c523075ea@j4g2000yqe.googlegroups.com>
<bbe514a8-080e-4034-9969-3e85cefff92f@m26g2000yqb.googlegroups.com>
In-Reply-To: <bbe514a8-080e-4034-9969-3e85cefff92f@m26g2000yqb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

Message-ID: <P9adna54gbFmztfWnZ2dnUVZ7tadnZ2d@pipex.net>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.110.222.93
X-Trace: sv3-
X22tcALLjrFbJirMtBUDngQH5mHQvvuuDpmTLdptsEgvF5kZAw2ozI4IJ5BK0VqzZ9dKXTa/uiSgFRB!E/
NPM+4O8of9G6PGy32xzIBjxOnQnZ+Ht5WvFsBSCrVU9BOSmlcp4T6QZ0a4BxToYutg+DpURifW!
jm1ZJ+EKCrKbEJiHSLt5GIIDMQ==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3026

> No the police bands are wide open they dont use digital because of the
> range. They all still use analog because of its dependability!
>
> They do use cell phones to communicate privately on digital,but theirs
> still that problem of 40 kz between transmit and recieve to over come.
>
> That only got you a dependent pimp or drug dealer.The cordless phones
> are still of interest however,the scanners that can get into the
> 2-4gigs are too expensive for the ordinary joe<I;-)

==
In Britain the police is now on a digital nation wide trunking system
,originally called Tetra ; I believe it is a Motorola system .
The Ambulance- and other public services are gradually also adopting the
system ,which eventually will be pan-european .

99% of all the cordless phones are now digital (mostly 900MHz)
Many are of the DECT type (Digitally Enhanced Communication Technology)
Those cordless phones which are GAP compatible (even when from different
manufacturers) can be used with the same base station (unit wired to
the telephone system)

Frank   GM0CSZ / KN6WH

From 3708481268723277366
X-Google-Thread: 241b302a50,b3429ca045adcd72,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
m26g2000yqb.googlegroups.com!not-for-mail
From: fitz <zeusrdx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FREE Animations you can e-mail
Date: Sun, 10 Jan 2010 20:05:43 -0800 (PST)
Organization: http://groups.google.com
Lines: 16

Message-ID: <7997596a-06bf-4610-bfe9-0c9e0014185f@m26g2000yqb.googlegroups.com>
NNTP-Posting-Host: 64.53.76.83
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1263182744 18275 127.0.0.1 (11 Jan 2010 04:05:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 11 Jan 2010 04:05:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m26g2000yqb.googlegroups.com; posting-host=64.53.76.83;
     posting-account=A451vgoAAAByc Jv5ugpkfX8QG96-xuRZ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0;
     Trident/4.0; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR
     3.0.30618; yie8),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3027

FREE Animations you can e-mail

- (click link):

http://www.amperefitz.com/contact.html

THOUSANDS of FREE Animations

Enjoy,

Fitz

From 3158802353333525578
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.249.MISMATCH!transit3.readnews.com!news-out.readnews.com!news-
xxxfer.readnews.com!news.misty.com!not-for-mail
From: "Geoffrey S. Mendelson" <gsm@cable.mendelson.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio conversion
Date: Mon, 11 Jan 2010 07:04:04 +0000 (UTC)
Organization: MGT Consulting
Lines: 33
Message-ID: <slrnhklj8m.bra.gsm@cable.mendelson.com>
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
 <c6928f7f-9bf3-4093-ac5a-7fdfd66195ef@c3g2000yqd.googlegroups.com>
 <eda355c6-3ccf-4249-9f3f-f7e2b7717e8f@j19g2000yqk.googlegroups.com>

```
 <56e0812b-c138-4581-88d3-57f862283a93@o28g2000yqh.googlegroups.com>
 <ec67b8b7-d943-4c73-97e9-d5f33fbecb7f@35g2000yqa.googlegroups.com>
 <442c9a74-1a9d-478a-a0dd-68878f2c8456@m3g2000yqf.googlegroups.com>
 <6097ca98-105e-4e1d-a419-088a717111c0@r24g2000yqd.googlegroups.com>
 <a046828a-8b3b-4672-b851-d78c523075ea@j4g2000yqe.googlegroups.com>
 <bbe514a8-080e-4034-9969-3e85cefff92f@m26g2000yqb.googlegroups.com>
 <P9adna54gbFmztfWnZ2dnUVZ7tadnZ2d@pipex.net>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-138-183-23.bb.netvision.net.il
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: news.inside.misty.com 1263193444 9422 89.138.183.23 (11 Jan 2010 07:04:04
GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Mon, 11 Jan 2010 07:04:04 +0000 (UTC)
User-Agent: slrn/pre1.0.0-2 (Linux)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3028
```

highlandham wrote:

> 99% of all the cordless phones are now digital (mostly 900MHz)
> Many are of the DECT type (Digitally Enhanced Communication Technology)
> Those cordless phones which are GAP compatible (even when from different
> manufacturers) can be used with the same base station (unit wired to
> the telephone system)

Maybe in the US they are. In the rest of the world, and many sold in the US,
use the 1.8gHz band. The low end of the US 1.9gHz band overlaps the high
end of the 1.8gHz band used elsewhere, so they can be 1.8 gHz here and
1.9 gHz there. :-)

There are some 2.4gHz cordless phones, but AFAIK they are slowly being phased
out because the poorly designed ones interfere with WiFi, and the good ones
that look for a clear channel can't function in a heavy WiFi environment.

5.8gHz phones, only legal in the Americas, are similar to their 2.4 gHz cousins
and eventually as the 5.8gHz gets taken over by 802.11n networks, they too
will disapear.

BTW, GAP phones are not always useable with other base stations. In order
to access a base station a handset must register with it, and currently that
has to be done by placing both the handset and base station in registration
mode and inserting the handset into the base station. Works in theory, but
every manufacturer uses a different base design and they contacts won't mate.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
New word I coined 12/13/09, "Sub-Wikipedia" adj, describing knowledge or
understanding, as in he has a sub-wikipedia understanding of the situation.
i.e possessing less facts or information than can be found in the Wikipedia.

```
From -8567122270354769050
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!c34g2000yqn.googlegroups.com!not-for-
mail
From: joeturn <joeturn2000@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio conversion
Date: Tue, 12 Jan 2010 21:21:20 -0800 (PST)
Organization: http://groups.google.com
Lines: 17
Message-ID: <434822cd-685c-4171-b0ac-62e036698a49@c34g2000yqn.googlegroups.com>
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
     <c6928f7f-9bf3-4093-ac5a-7fdfd66195ef@c3g2000yqd.googlegroups.com>
     <eda355c6-3ccf-4249-9f3f-f7e2b7717e8f@j19g2000yqk.googlegroups.com>
     <56e0812b-c138-4581-88d3-57f862283a93@o28g2000yqh.googlegroups.com>
     <ec67b8b7-d943-4c73-97e9-d5f33fbecb7f@35g2000yqa.googlegroups.com>
     <442c9a74-1a9d-478a-a0dd-68878f2c8456@m3g2000yqf.googlegroups.com>
     <6097ca98-105e-4e1d-a419-088a717111c0@r24g2000yqd.googlegroups.com>
     <a046828a-8b3b-4672-b851-d78c523075ea@j4g2000yqe.googlegroups.com>
     <bbe514a8-080e-4034-9969-3e85cefff92f@m26g2000yqb.googlegroups.com>
     <P9adna54gbFmztfWnZ2dnUVZ7tadnZ2d@pipex.net>
<slrnhklj8m.bra.gsm@cable.mendelson.com>
NNTP-Posting-Host: 24.95.252.127
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1263360080 24714 127.0.0.1 (13 Jan 2010 05:21:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 13 Jan 2010 05:21:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c34g2000yqn.googlegroups.com; posting-host=24.95.252.127;
     posting-account=TOBUfggAAAC5Ow7sgid-1fbF1N9O6T1h
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
     Trident/4.0; Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1) ; .NET
     CLR 1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0; .NET CLR 2.0.50727;
     .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729; yie8),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3029
```

We now have a 6.2 ghz cordless! Digital cell phones are only good to reach the nearest microwave tower then then the signal is relayed! This is most likely the way the Europeans use digital as it's no good over a distance of 30 miles without being relayed.

The only bennifit of digital is a weak signal demanding cable or satellite subscriptions$$$$

To amplifi the digital signal enough to be usable at greater distances will have a domino effect on its technology of being deadly due to exposure to microwaves to the human brain and redering one impotent!

http://www.articlesbase.com/technology-articles/the-harmful-effects-of-cell-phone-use-413085.html

This release of harmful cellphone use will hurt the industry or do
away with it completely!!
$$$

```
From -5861761950042193096
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q4g2000yqm.googlegroups.com!not-for-
mail
From: joeturn <joeturn2000@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio conversion
Date: Tue, 12 Jan 2010 21:42:52 -0800 (PST)
Organization: http://groups.google.com
Lines: 10
Message-ID: <b5a19aec-6258-421a-bf2f-bcc9623c5c03@q4g2000yqm.googlegroups.com>
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
     <c6928f7f-9bf3-4093-ac5a-7fdfd66195ef@c3g2000yqd.googlegroups.com>
     <eda355c6-3ccf-4249-9f3f-f7e2b7717e8f@j19g2000yqk.googlegroups.com>
     <56e0812b-c138-4581-88d3-57f862283a93@o28g2000yqh.googlegroups.com>
     <ec67b8b7-d943-4c73-97e9-d5f33fbecb7f@35g2000yqa.googlegroups.com>
     <442c9a74-1a9d-478a-a0dd-68878f2c8456@m3g2000yqf.googlegroups.com>
     <6097ca98-105e-4e1d-a419-088a717111c0@r24g2000yqd.googlegroups.com>
     <a046828a-8b3b-4672-b851-d78c523075ea@j4g2000yqe.googlegroups.com>
     <bbe514a8-080e-4034-9969-3e85cefff92f@m26g2000yqb.googlegroups.com>
     <P9adna54gbFmztfWnZ2dnUVZ7tadnZ2d@pipex.net>
<slrnhklj8m.bra.gsm@cable.mendelson.com>
     <434822cd-685c-4171-b0ac-62e036698a49@c34g2000yqn.googlegroups.com>
NNTP-Posting-Host: 24.95.252.127
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1263361372 1378 127.0.0.1 (13 Jan 2010 05:42:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 13 Jan 2010 05:42:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q4g2000yqm.googlegroups.com; posting-host=24.95.252.127;
     posting-account=TOBUfggAAAC5Ow7sgid-1fbF1N9O6T1h
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
     Trident/4.0; Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1) ; .NET
     CLR 1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0; .NET CLR 2.0.50727;
     .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729; yie8),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3030
```

The Government once conducted a study of the possibility of RF being
harmful but conviniently the results were altered!

Here's a better read for cellphone's harmful effects!

http://www.infowars.com/cell-phone-use-harmful-to-unborn/

but mega biz has no feelings where loss of revenue is concerned, they
just lobby in what ever brings the biggest bux<I;-)

```
From -1574925497193866463
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
weretis.net!feeder2.news.weretis.net!feeder.erje.net!newsfeed.xs4all.nl!
newsfeed6.news.xs4all.nl!xs4all!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Radio conversion
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
 <c6928f7f-9bf3-4093-ac5a-7fdfd66195ef@c3g2000yqd.googlegroups.com>
 <eda355c6-3ccf-4249-9f3f-f7e2b7717e8f@j19g2000yqk.googlegroups.com>
 <56e0812b-c138-4581-88d3-57f862283a93@o28g2000yqh.googlegroups.com>
 <ec67b8b7-d943-4c73-97e9-d5f33fbecb7f@35g2000yqa.googlegroups.com>
 <442c9a74-1a9d-478a-a0dd-68878f2c8456@m3g2000yqf.googlegroups.com>
 <6097ca98-105e-4e1d-a419-088a717111c0@r24g2000yqd.googlegroups.com>
 <a046828a-8b3b-4672-b851-d78c523075ea@j4g2000yqe.googlegroups.com>
 <bbe514a8-080e-4034-9969-3e85cefff92f@m26g2000yqb.googlegroups.com>
 <P9adna54gbFmztfWnZ2dnUVZ7tadnZ2d@pipex.net>
 <slrnhklj8m.bra.gsm@cable.mendelson.com>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrnhks19j.90j.nomail@xs8.xs4all.nl>
Date: 13 Jan 2010 17:38:59 GMT
Lines: 12
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1263404339 news.xs4all.nl 22919 [::ffff:194.109.21.8]:59096
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:3031
```

Geoffrey S. Mendelson <gsm@cable.mendelson.com> wrote:

> BTW, GAP phones are not always useable with other base stations. In order
> to access a base station a handset must register with it, and currently that
> has to be done by placing both the handset and base station in registration
> mode and inserting the handset into the base station. Works in theory, but
> every manufacturer uses a different base design and they contacts won't mate.

There is no "inserting in the base station" during registration of a
handset with a base station. You only select some function, key-in some

number, and press some button.
My base station does not even have the facility to charge a handset,
there is a separate charger base for that.

```
From 763116659431442804
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!newsfeed.velia.net!feeder.erje.net!newsfeed.xs4all.nl!
newsfeed6.news.xs4all.nl!xs4all!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Radio conversion
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
 <c6928f7f-9bf3-4093-ac5a-7fdfd66195ef@c3g2000yqd.googlegroups.com>
 <eda355c6-3ccf-4249-9f3f-f7e2b7717e8f@j19g2000yqk.googlegroups.com>
 <56e0812b-c138-4581-88d3-57f862283a93@o28g2000yqh.googlegroups.com>
 <ec67b8b7-d943-4c73-97e9-d5f33fbecb7f@35g2000yqa.googlegroups.com>
 <442c9a74-1a9d-478a-a0dd-68878f2c8456@m3g2000yqf.googlegroups.com>
 <6097ca98-105e-4e1d-a419-088a717111c0@r24g2000yqd.googlegroups.com>
 <a046828a-8b3b-4672-b851-d78c523075ea@j4g2000yqe.googlegroups.com>
 <bbe514a8-080e-4034-9969-3e85cefff92f@m26g2000yqb.googlegroups.com>
 <P9adna54gbFmztfWnZ2dnUVZ7tadnZ2d@pipex.net>
User-Agent: slrn/pre0.9.9-111 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrnhks1d0.90j.nomail@xs8.xs4all.nl>
Date: 13 Jan 2010 17:40:48 GMT
Lines: 11
NNTP-Posting-Host: 194.109.21.8
X-Trace: 1263404448 news.xs4all.nl 22919 [::ffff:194.109.21.8]:59096
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:3032
```

highlandham <highlandham_nospam@rfburns.com> wrote:
> In Britain the police is now on a digital nation wide trunking system
> ,originally called Tetra ; I believe it is a Motorola system .
> The Ambulance- and other public services are gradually also adopting the
> system ,which eventually will be pan-european .

In the Netherlands it has been active for several years already.
There is no more police radio snooping using FM scanners anymore.

(of course this means the public cannot serve as an extra eye and ear
to the police anymore, either)

```
From -6147277207719758463
```

```
X-Google-Thread: 241b302a50,40933e0837ad0d89
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
news.glorb.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 13 Jan 2010 17:41:12 -0600
Date: Wed, 13 Jan 2010 23:41:12 +0000
From: highlandham <highlandham_nospam@rfburns.com>
User-Agent: Thunderbird 2.0.0.23 (X11/20090817)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio conversion
References: <f765e76c-2971-4dab-966c-c71acba2aca3@z7g2000vbl.googlegroups.com>
<c6928f7f-9bf3-4093-ac5a-7fdfd66195ef@c3g2000yqd.googlegroups.com>
<eda355c6-3ccf-4249-9f3f-f7e2b7717e8f@j19g2000yqk.googlegroups.com> <56e0812b-
c138-4581-88d3-57f862283a93@o28g2000yqh.googlegroups.com> <ec67b8b7-
d943-4c73-97e9-d5f33fbecb7f@35g2000yqa.googlegroups.com> <442c9a74-1a9d-478a-
a0dd-68878f2c8456@m3g2000yqf.googlegroups.com> <6097ca98-105e-4e1d-
a419-088a717111c0@r24g2000yqd.googlegroups.com> <a046828a-8b3b-4672-b851-
d78c523075ea@j4g2000yqe.googlegroups.com>
<bbe514a8-080e-4034-9969-3e85cefff92f@m26g2000yqb.googlegroups.com>
<P9adna54gbFmztfWnZ2dnUVZ7tadnZ2d@pipex.net>
<slrnhklj8m.bra.gsm@cable.mendelson.com> <slrnhks19j.90j.nomail@xs8.xs4all.nl>
In-Reply-To: <slrnhks19j.90j.nomail@xs8.xs4all.nl>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <hoidnR2DYtyFx9PWnZ2dnUVZ7tednZ2d@pipex.net>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.110.222.93
X-Trace:
sv3-5asx7cIrZoNdMtP2T55IuruIw1ByF5DwGTzHUaoaDYajOXJFXRHxwmfGDtxzmI4SNl8OOJNKC5fdrC
O!XKzZl6IEVt/P+089CS12ras5lSLVVBmd55iMLS2gZWZ0B4J3oxJhuQLoZn6E8UHUdZSV6bdy2RSn!
xJHyzMMJecqQx219mz2LPdL2+Q==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3033

Rob wrote:
> Geoffrey S. Mendelson <gsm@cable.mendelson.com> wrote:
>> BTW, GAP phones are not always useable with other base stations. In order
>> to access a base station a handset must register with it, and currently that
>> has to be done by placing both the handset and base station in registration
>> mode and inserting the handset into the base station. Works in theory, but
>> every manufacturer uses a different base design and they contacts won't mate.
------------------------------- Rob wrote ---------------------------
```

> There is no "inserting in the base station" during registration of a
> handset with a base station. You only select some function, key-in some
> number, and press some button.
> My base station does not even have the facility to charge a handset,
> there is a separate charger base for that.

=====================
That's correct. My Philips system does not need inserting ,it is like
Rob describes . Any GAP compatible DECT phone can be registered (up to a
certain maximum number per base station)
I have checked the range (max distance between base station and any
handset) . In open country (no buildings or other line of sight
obstructions other than 1 building wall) the range is not less than 100
metres.

Frank GM0CSZ / KN6WH

From 7012606215326950424
X-Google-Thread: 241b302a50,766e594d79e09b6a,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!feeder.eternal-september.org!eternal-september.org!.POSTED!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Need old meter case (broke meter ok)
Date: Thu, 14 Jan 2010 09:23:12 -0500
Organization: A noiseless patient Spider
Lines: 4
Message-ID: <hin9cf$6qp$2@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Thu, 14 Jan 2010 14:23:11 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-host="DEmOrWSXcuF+FwFEO9v78w";
     logging-data="7001"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/Gm0ek1jXztpxakjTffvifvLo+b71z7Yo="
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
Cancel-Lock: sha1:LDQXZH5Wdogt6v0mvxBxETz/0zA=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3034

Does anybody have an old large panel meter (case inside dia of 3"). The
meter can (should) be broken as all I need is the outside case. I need
a bezel for a 3" CRT and a case from a broken panel meter with a 3"
(inside) diameter would work fine.

From 3521975839367049364
X-Google-Thread: 733d321764,246c9135acceb72b,start
X-Google-Attributes: gid733d321764,public,usenet

```
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe24.iad.POSTED!7564ea0f!not-for-mail
From: "Norm VE3CZI" <rodemi@cogeco.ca>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.swap
Subject: FA: NATIONAL RADIO 2 METER CONVERTER for NC-300 Receiver
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <dVF3n.9587$TC5.3189@newsfe24.iad>
NNTP-Posting-Host: 24.141.182.13
X-Complaints-To: abuse@cogeco.net
X-Trace: newsfe24.iad 1263479497 24.141.182.13 (Thu, 14 Jan 2010 14:31:37 UTC)
NNTP-Posting-Date: Thu, 14 Jan 2010 14:31:37 UTC
Date: Thu, 14 Jan 2010 09:31:33 -0500
Xref: g2news1.google.com rec.radio.amateur.equipment:1708
rec.radio.amateur.homebrew:3035 rec.radio.swap:2294

Have up for auction a RARE Classic unit..Don't miss out on this one!

http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&item=320474375918&ssPageName=STRK:MESELX:IT

Tnx for looking....Norm





From -8737751133563676412
X-Google-Thread: 733d321764,b82ab94e5a91d08f,start
X-Google-Attributes: gid733d321764,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe24.iad.POSTED!7564ea0f!not-for-mail
From: "Norm VE3CZI" <rodemi@cogeco.ca>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.swap
Subject: FA:  Heathkit MT-1 Cheyenne Mobile Transmitter
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <raG3n.9588$TC5.2624@newsfe24.iad>
NNTP-Posting-Host: 24.141.182.13
```

X-Complaints-To: abuse@cogeco.net
X-Trace: newsfe24.iad 1263480599 24.141.182.13 (Thu, 14 Jan 2010 14:49:59 UTC)
NNTP-Posting-Date: Thu, 14 Jan 2010 14:49:59 UTC
Date: Thu, 14 Jan 2010 09:49:55 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:3036 rec.radio.swap:2295

For Auction...Not Operational, but All the parts are there PLUS Manual...I'm sure it is fixable...just don't have the time.

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=320474772018

Don't miss this Classic unit.

Tnx for looking...Norm

From -1131875989051872027
X-Google-Thread: 241b302a50,f7ab7c14bfe1a4fd,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e37g2000yqn.googlegroups.com!not-for-mail
From: fitz <zeusrdx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: What a photon really is:
Date: Thu, 14 Jan 2010 13:09:52 -0800 (PST)
Organization: http://groups.google.com
Lines: 11
Message-ID: <4c70278e-0727-469c-866d-6d551bbfdeb8@e37g2000yqn.googlegroups.com>
NNTP-Posting-Host: 204.116.183.226
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1263503392 6340 127.0.0.1 (14 Jan 2010 21:09:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 14 Jan 2010 21:09:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e37g2000yqn.googlegroups.com; posting-host=204.116.183.226;
posting-account=A451vgoAAAByсJv5ugpkfX8QG96-xuRZ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0; Trident/4.0; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR 3.0.30618; yie8),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3037

What a photon really is:

http://www.amperefitz.com/phton.htm

Click link above

Fitz

From -7700544358592918462
X-Google-Thread: 241b302a50,ba23089760b98c81,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.brightview.co.uk!news.brightview.co.uk.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 14 Jan 2010 16:06:26 -0600
From: "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Looking For MC145106 in UK
Date: Thu, 14 Jan 2010 22:06:27 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <buGdnYXoh_D_CNLWnZ2dnUVZ8ridnZ2d@brightview.co.uk>
Lines: 12
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
VvIBDbOvEVT85zZvzZnLyHzZ+Gb8akJCGzSuXd4Vcr2IgM9EHXW6xvp98F8j7EijTUYgLVirOe4mO4i!
2fyFq8ZzOXi2isH+fkzQJ2ITScfcJxZ+XaL0DvYIjystuot23YK4yTzjHERnU8K284iDoFDc8cU0!
1wqFGKBneOonH0CxgZtNeFXwlg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3038

Hi all,

I'm enquiring on behalf of a friend. He's looking for an MC145106 PLL IC.
Does anyone know where he could buy one from in the UK?

Thanks,

JOHN, M5AML

www.wells10000.plus.com/m5aml/

From -5884993864385177389

```
X-Google-Thread: 241b302a50,ba23089760b98c81
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 15 Jan 2010 05:05:12 -0600
Date: Fri, 15 Jan 2010 11:05:11 +0000
From: highlandham <highlandham_nospam@rfburns.com>
User-Agent: Thunderbird 2.0.0.23 (X11/20090817)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking For MC145106 in UK
References: <buGdnYXoh_D_CNLWnZ2dnUVZ8ridnZ2d@brightview.co.uk>
In-Reply-To: <buGdnYXoh_D_CNLWnZ2dnUVZ8ridnZ2d@brightview.co.uk>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <nJSdnRFJO8B11s3WnZ2dnUVZ8rWdnZ2d@pipex.net>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.110.222.93
X-Trace: sv3-712650BcW8c6k1c2N64IuAGYqmzfyCY9ds/
aS0KCOyr4cpHMBhZ0yWG97XBvVfJk1r9lqcM6CfxT9VE!
Igjdr1dUdbdwrFrWfBwEmoGkgwcOhLv2FxkjmC9XcGvs9fEQEXBlYAyeZhCG7FV/pcAc2KDL689X!
y8dgrC3q82IiVvmRNrV5gt/twg==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3039
```

John W wrote:

> Hi all,
>
> I'm enquiring on behalf of a friend. He's looking for an MC145106 PLL IC.
> Does anyone know where he could buy one from in the UK?
>
> Thanks,
>
> JOHN, M5AML
>
> www.wells10000.plus.com/m5aml/
>
>

==

Try :www.modecomponents.co.uk | modecomponents@yahoo.com Chris, G8CHW
www.jabdog.com | jabdog@blueyonder.co.uk   Peter G7JAB

Good Luck

Frank GM0CSZ / KN6WH

```
From -262184542181232637
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.brightview.co.uk!news.brightview.co.uk.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 15 Jan 2010 11:51:51 -0600
From: "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <buGdnYXoh_D_CNLWnZ2dnUVZ8ridnZ2d@brightview.co.uk>
<nJSdnRFJO8B11s3WnZ2dnUVZ8rWdnZ2d@pipex.net>
Subject: Re: Looking For MC145106 in UK
Date: Fri, 15 Jan 2010 17:41:17 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <0aCdnQYDD46qNs3WnZ2dnUVZ8nGdnZ2d@brightview.co.uk>
Lines: 9
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
w2w5LIQCJXWzvljBnUbCNBCHpTaPOTbvDWVI43zDnKS2RxXNIg7PiVpoJxqhYu3FhAgLVamcZEurUnj!
QqpT4XW5tnrvSbR3qZuzoAexItgMKHWm9Za9bt5mOKXtnKQoHrSgbBAWXqGW1A5OXgh7KSzWY/zn!
RFJ2J2o5MF26QfWJdhUbil6PDg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:3040
```

A big 'thanks' to John, KC0G who responded directly with a positive answer.

Problem solved.

73
JOHN

```
From 16256414831952950
X-Google-Thread: 241b302a50,3d595892b858e97d,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!195.71.90.67.MISMATCH!news.unit0.net!news.k-dsl.de!
feeder.news.heanet.ie!news.indigo.ie!not-for-mail
From: "Gerry Lawlor" <ei9fv@arrl.net>
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: ARRL Exciter circuit from 1950's (?) ARRL Handbook
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-RFC2646: Format=Flowed; Original
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <9I_4n.260$I8.342@news.indigo.ie>
Date: Mon, 18 Jan 2010 15:00:21 -0000
NNTP-Posting-Host: 86.45.104.6
X-Complaints-To: abuse@eircom.net
X-Trace: news.indigo.ie 1263826821 86.45.104.6 (Mon, 18 Jan 2010 15:00:21 GMT)
NNTP-Posting-Date: Mon, 18 Jan 2010 15:00:21 GMT
Organization: Eircom.Net http://www.eircom.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:3041
```

Hi

I am currently interested in restoring an old well-constructed homebrew exciter which was built in the 50's from (I believe) an ARRLhandbook design. It has a 6AG7 (osc) , 6V6 (doubler/tripler), 807 (PA) lineup with clamp tube protection on the 807. It was intended to drive an 813 amplifier as far as I know. It appears to have been used mainly on 15, 20 and 40m and is crystal controlled. It was last used about 30 years ago but is in good overall condition and the quality of the components used appears to be good.

I would appreciate any data on this design, particularly circuit information. A pointer even to the original handbook article would be of value.

Thanks in advance for any asssistance.

Gerry/EI9FV

```
From 7067600117135968968
X-Google-Thread: 241b302a50,3d595892b858e97d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!u41g2000yqe.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL Exciter circuit from 1950's (?) ARRL Handbook
Date: Mon, 18 Jan 2010 13:32:01 -0800 (PST)
Organization: http://groups.google.com
Lines: 26
```

```
Message-ID: <62aac909-9d53-4f8e-b478-9ba28911584f@u41g2000yqe.googlegroups.com>
References: <9I_4n.260$I8.342@news.indigo.ie>
NNTP-Posting-Host: 75.191.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1263850322 3603 127.0.0.1 (18 Jan 2010 21:32:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 18 Jan 2010 21:32:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u41g2000yqe.googlegroups.com; posting-host=75.191.176.71;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.7)
     Gecko/20091221 Firefox/3.5.7 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3042

On Jan 18, 10:00=A0am, "Gerry Lawlor" <ei...@arrl.net> wrote:
> Hi
>
> I am currently interested in restoring an old well-constructed homebrew
> exciter which was built in the 50's from (I believe) an ARRLhandbook desi=
gn.
> It has a 6AG7 (osc) , 6V6 (doubler/tripler), 807 (PA) lineup with clamp t=
ube
> protection on the 807. =A0It was intended to drive an 813 amplifier as fa=
r as
> I know. =A0It appears to have been used mainly on 15, 20 and 40m and is
> crystal controlled. =A0It was last used about 30 years ago but is in good
> overall condition and the quality of the components used appears to be go=
od.
>
> I would appreciate any data on this design, particularly circuit
> information. =A0A pointer even to the original handbook article would be =
of
> value.
>
> Thanks in advance for any asssistance.
>
> Gerry/EI9FV

pmillett has some old copies of the handbook on his website. says the
copyright is expired so it is ok to copy


From 4440275555634184799
X-Google-Thread: 241b302a50,3d595892b858e97d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder3.cambriumusenet.nl!
feed.tweaknews.nl!193.201.147.68.MISMATCH!feeder.news-service.com!feeder.erje.net!
feeder.eternal-september.org!eternal-september.org!.POSTED!not-for-mail
```

```
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL Exciter circuit from 1950's (?) ARRL Handbook
Date: Mon, 18 Jan 2010 17:16:29 -0500
Organization: A noiseless patient Spider
Lines: 29
Message-ID: <hj2mjo$2ka$1@news.eternal-september.org>
References: <9I_4n.260$I8.342@news.indigo.ie>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Injection-Date: Mon, 18 Jan 2010 22:16:24 +0000 (UTC)
Injection-Info: feeder.eternal-september.org; posting-
host="DEmOrWSXcuF+FwFEO9v78w";
     logging-data="2698"; mail-complaints-to="abuse@eternal-september.org";
     posting-account="U2FsdGVkX1/AKGRBQXqvG5HBzz2GXfN31y84F5fXj2k="
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
In-Reply-To: <9I_4n.260$I8.342@news.indigo.ie>
Cancel-Lock: sha1:FdMEXcA7hFjIv99kVHcAIXWtFl4=
Xref: g2news1.google.com rec.radio.amateur.homebrew:3043

Gerry Lawlor wrote:
> Hi
>
> I am currently interested in restoring an old well-constructed homebrew
> exciter which was built in the 50's from (I believe) an ARRLhandbook design.
> It has a 6AG7 (osc) , 6V6 (doubler/tripler), 807 (PA) lineup with clamp tube
> protection on the 807.  It was intended to drive an 813 amplifier as far as
> I know.  It appears to have been used mainly on 15, 20 and 40m and is
> crystal controlled.  It was last used about 30 years ago but is in good
> overall condition and the quality of the components used appears to be good.
>
> I would appreciate any data on this design, particularly circuit
> information.  A pointer even to the original handbook article would be of
> value.
>
> Thanks in advance for any asssistance.
>
> Gerry/EI9FV
>
>
>
>
The rig you are talking about is on page 192 of the 1951 ARRL HB.
The tube lineup is 6AG7 osc-doubler, 6V6 multiplier, 807 final, 6Y6G
clamp tube.  This chassis was then link coupled to a second chassis with
a pair of 813's in push pull.

In the 1952 HB there is a similar rig without the 807, the 6V6 drives a
single 813 and the 6Y6 is the clamp tube for the 813.


From 3890026470802786292
```

```
X-Google-Thread: 241b302a50,3d595892b858e97d
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!e16g2000yqc.googlegroups.com!not-for-
mail
From: "JRCCrabtree@gmail.com" <jrccrabtree@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL Exciter circuit from 1950's (?) ARRL Handbook
Date: Mon, 18 Jan 2010 21:24:34 -0800 (PST)
Organization: http://groups.google.com
Lines: 46
Message-ID: <7c2374d9-9cb3-4fe0-820c-fd4cd0d74421@e16g2000yqc.googlegroups.com>
References: <9I_4n.260$I8.342@news.indigo.ie> <hj2mjo$2ka$1@news.eternal-
september.org>
NNTP-Posting-Host: 64.12.117.19
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1263878675 16599 127.0.0.1 (19 Jan 2010 05:24:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 19 Jan 2010 05:24:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e16g2000yqc.googlegroups.com; posting-host=64.12.117.19;
     posting-account=oReaeAoAAAC8QjvgaTJKVc8n6hZSq0yP
User-Agent: G2/1.0
X-HTTP-Via: HTTP/1.1 spider-mtc-te03.proxy.aol.com[400C7083] (Prism/1.2.1),
     HTTP/1.1 cache-mtc-ae15.proxy.aol.com[400C7513] (Traffic-Server/6.1.5 [uScM])
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 7.0; Windows NT
     5.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:3044

On Jan 18, 4:16=EF=BF=BDpm, Kenneth Scharf <wa2...@bellsouth.net> wrote:
> Gerry Lawlor wrote:
> > Hi
>
> > I am currently interested in restoring an old well-constructed homebrew
> > exciter which was built in the 50's from (I believe) an ARRLhandbook de=
sign.
> > It has a 6AG7 (osc) , 6V6 (doubler/tripler), 807 (PA) lineup with clamp=
 tube
> > protection on the 807. =EF=BF=BDIt was intended to drive an 813 amplifi=
er as far as
> > I know. =EF=BF=BDIt appears to have been used mainly on 15, 20 and 40m =
and is
> > crystal controlled. =EF=BF=BDIt was last used about 30 years ago but is=
 in good
> > overall condition and the quality of the components used appears to be =
good.
>
> > I would appreciate any data on this design, particularly circuit
> > information. =EF=BF=BDA pointer even to the original handbook article w=
ould be of
```

```
> > value.
>
> > Thanks in advance for any asssistance.
>
> > Gerry/EI9FV
>
> The rig you are talking about is on page 192 of the 1951 ARRL HB.
> The tube lineup is 6AG7 osc-doubler, 6V6 multiplier, 807 final, 6Y6G
> clamp tube. =EF=BF=BDThis chassis was then link coupled to a second chass=
is with
> a pair of 813's in push pull.
>
> In the 1952 HB there is a similar rig without the 807, the 6V6 drives a
> single 813 and the 6Y6 is the clamp tube for the 813.

It is possible that the design also appeared in QST.  The rig from the
1952 HB may well be:
    "Building an 813 Transmitter--Modern Style", by  R. Smith, W1FTX,
QST, July 1951 pp 11-17.

I did not find a QST article for the rig described above from the 1951
HB.  That does not mean that it does not exist.

73 John  KC0G




From 1915014262251577706
X-Google-Thread: d7f5508063,5cab1751e4c1f2bf,start
X-Google-Attributes: gidd7f5508063,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,CP1252
Path: g2news2.google.com!postnews.google.com!x6g2000prc.googlegroups.com!not-for-
mail
From: Mark Licetti <StanStar@nyc.rr.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: FS: NEW Minicircuits ZKL-1R5 RF MICROWAVE AMPLIFIER(s) 10MHz-1.5GHz.
     $38.70 or $50 on Ebay [LOT of TEN, ZKL1R5]
Date: Wed, 28 Oct 2009 13:48:59 -0700 (PDT)
Organization: http://groups.google.com
Lines: 79
Message-ID: <0c9b2d26-cc45-44ab-899d-4c1ed885be22@x6g2000prc.googlegroups.com>
NNTP-Posting-Host: 72.229.6.183
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1256762939 4959 127.0.0.1 (28 Oct 2009 20:48:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 28 Oct 2009 20:48:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x6g2000prc.googlegroups.com; posting-host=72.229.6.183;
     posting-account=fh9iogoAAADTldqehgpjfji0G-E6drv5
```

User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0; Trident/4.0; SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.30618; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:15195 rec.radio.amateur.homebrew:3191 rec.radio.amateur.equipment:1832

LOT of TEN or Singles.
Minicircuits ZKL-1R5 [ZKL1R5] RF MICROWAVE AMPLIFIER(s), Wideband 10MHz-1.5GHz.
High-end Amps, MedPower +18.7dBm, LowNoise 3dB, Gain 39-40dB. NEW - in original Minicircuits/antistatic packaging (never used, USA origin & location, ships worldwide).
Either Singles or entire LOT (price shown for a Lot, but message us if you want single(s) - shipping is CHEAPER than shown ($5.20), etc. however on a quantity basis you save by dealing as a Lot, not Singles - message us if you just need a few, not all 10 units).

Posted on Ebay, item# 330371507322 - goto www.ebay.com & enter 330371507322 into search. "BuyNow" OPTION is AVAILABLE - NO need to wait for Auction ending.
Contact via Ebay (best) or Email. By Email, can hit "Reply" in Newsgroups but REMOVE "nospam" strings if appears in my address (edit address manually, but sometimes it=92s already done) so I could respond from a real address/name. Do NOT reply on Newsgroups (I posted here, but will NOT read), and if I get much spam that address will be DISABLED, so you'll have to communicate via Ebay (which, incidentally, is more secure anyway). My Ebay feedback is 100% positive, not to mention 14 YEARS of Newsgroups trading without complains. Again, description is on Ebay but a few facts are copied here (for convenience):

** TECHNICAL SPECS:
A DATASHEET PDF is at manufacturer's site www.minicircuits.com-->enter "ZKL-1R5" into search--> datasheet (do not omit dash, ZKL1R5 instead of ZKL-1R5 will result in an error); so only a few specs are copied below. Finally, check the price Minicircuits is asking - $150/unit, we're asking $39 "auction start" & $56 "buynow" options - new/sealed units but @33% cost (reason to sell is explained below)
** PHOTOS are at EXTERNAL SERVER (as I CANNOT POST on EBAY for free beyond 1st free photo); at http://photos.starium.org ----> select Gallery named "Minicircuits ZKL-1R5"..
=95 Wideband, 10MHz to 1.500 GHz
=95 IP3 +31 dBm typ.
=95 LowNoise 3 dB typ. (not bad for a MedPower amp, rather than dedicated LNA)
=95 Gain 40 dB typ., Flatness 1.2dB
=95 VSWR IN 1.4, OUT 1.6
=95 P1dB Compression Point +15dB min, however charts indicate 17.6 to 18.7dBm
=95 Connectors - SMA (50 Ohm impedance), gold-plated.
=95 DCpower +12V nom @115mA max, but will take a range of 9-13V or wider.

=95 More data, plots, etc. are in a datasheet (PDF) downloadable from manufacturer's website.
Example of applications: communication systems e.g. cellular, satellite distribution, GSM/ISM; Radars, we're using them in a Middle-Stage Amplifier block in an MRI (magnetic) scientific instrument.

** REASON to SELL::
Our RF Engineer has changed Product design in which this amplifier was previously used (a scientific instrument); so not all purchased lots of ZKL-1R5 could be finished before new design "kicked in". In the new design, ZKL1R5 overloads the newly designed next amplifying stage (which became more sensitive) & we don't know a clean way to attenuate ZKL1R5's gain (38-40dB!, lowering powersupply is not a solution & not enough). So instead we switched to using ZFL-500 amps with lower gain & narrower bandwidth (0.5Ghz, in fact all we need is 0.2GHz, not even 0.5GHz). Minicircuit's policy is not to take them back & it's laborious to try to retrofit these into a new system - it's better if we simply sell, at a loss or not, but it's easier. We're already stocked on 60 ZFL-500's, so design change is permanent/verified.

I, in fact, come from a competing RF company (not to be mentioned) so not interested in promoting Minicircuits, but this is one of Minicircuits better models; as far as I know it's using Gallium/Indium PHEMT/etc. FET=92s or something to that effect, not surprising but $150 price is already difficult to attain, yet we ask even 3-4x times less or to exchange for ZFL500 (Minicircuits said =91no=94). It's a pity at the new company where I moved in 2008, which is using RF Amps (not designing them), we cannot use ZKL1R5 due to gain excessive for a new design (was normal in an older design), also we decided don't need 1.5GHz expensive amps considering our signals are under 200MHz.

P.S. Again, more photos are at that http://photos.starium.org site - pictures are better than a lengthy verbal description.

```
From -5042345020198781424
X-Google-Thread: 241b302a50,dffe39c0aaa19f35,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!f16g2000yqm.googlegroups.com!not-for-
mail
From: "dave.harper" <dave.harper@gmail.com>
Newsgroups:
sci.electronics.design,sci.electronics.basics,rec.radio.amateur.misc,rec.radio.ama
teur.homebrew
Subject: Re: EMI prevention / protection?
Date: Fri, 30 Oct 2009 10:40:47 -0700 (PDT)
Organization: http://groups.google.com
Lines: 27
Message-ID: <9de2939d-556d-4d5a-a541-e3e0bb32d400@f16g2000yqm.googlegroups.com>
References: <2cf2f0ad-9c3e-4c8f-ad65-925d63725dfe@m16g2000yqc.googlegroups.com>
     <22af0983-b938-416f-b329-148f95d54eab@a31g2000yqn.googlegroups.com>
     <900f6174-3e4b-410d-9413-1102b06928ac@j4g2000yqe.googlegroups.com>
     <3a9fc26d-de11-43b7-9ea4-60d55bd8d0c9@k4g2000yqb.googlegroups.com>
NNTP-Posting-Host: 128.158.1.171
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1256924448 21177 127.0.0.1 (30 Oct 2009 17:40:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 30 Oct 2009 17:40:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f16g2000yqm.googlegroups.com; posting-host=128.158.1.171;
     posting-account=rHEQaggAAAAFTscVchKefpnjROFHTWH8
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.11)
     Gecko/2009060215 Firefox/3.0.11,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:134169
sci.electronics.basics:27175 rec.radio.amateur.misc:4617
rec.radio.amateur.homebrew:3192
```

I'm using the wein bridge to generate audio tones that are fed to the transmitter for digital radio communication (basically a homebrew ASK radio modem). I'd be open to using that, but I'm not aware of any radio modems that output square waves.

This oscillator also has 2 digital pots attached: 1 to trim the space tone, and 1 to trim the mark tone. There's a high speed switch between the two pots to rapidly switch between mark and space tones. I could use this same setup with a 555 and trim the resistor to vary the pulse duration, but I'm not sure what impact a square wave would have on transmission, reception, decoding, etc...?

Has anyone heard of a square wave being used as an audio tone for digital radio communication?

Thanks in advance,
Dave

On Oct 30, 12:06=A0pm, George Herold <ggher...@gmail.com> wrote:

> Hmm I have no idea if that will make any difference. =A0What are you
> using to control the feedback? =A0Can you use a more robust oscillator
> (as John suggested) Some type of 'bang-bang' rather than sitting on
> the 'knife-edge' of oscillation with the Wein bridge. =A0I needed the
> low harmonic distortion of the Wein bridge... Is that what you need?
>
> George H.

```
From -4419837969887608251
X-Google-Thread: 241b302a50,dffe39c0aaa19f35
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
```

```
Path: g2news2.google.com!postnews.google.com!k17g2000yqb.googlegroups.com!not-for-
mail
From: George Herold <ggherold@gmail.com>
Newsgroups:
sci.electronics.design,sci.electronics.basics,rec.radio.amateur.misc,rec.radio.ama
teur.homebrew
Subject: Re: EMI prevention / protection?
Date: Fri, 30 Oct 2009 11:21:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 42
Message-ID: <277f558b-97cd-4c05-9974-7e8b389f615f@k17g2000yqb.googlegroups.com>
References: <2cf2f0ad-9c3e-4c8f-ad65-925d63725dfe@m16g2000yqc.googlegroups.com>
     <22af0983-b938-416f-b329-148f95d54eab@a31g2000yqn.googlegroups.com>
     <900f6174-3e4b-410d-9413-1102b06928ac@j4g2000yqe.googlegroups.com>
     <3a9fc26d-de11-43b7-9ea4-60d55bd8d0c9@k4g2000yqb.googlegroups.com>
     <9de2939d-556d-4d5a-a541-e3e0bb32d400@f16g2000yqm.googlegroups.com>
NNTP-Posting-Host: 129.44.255.154
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1256926877 16123 127.0.0.1 (30 Oct 2009 18:21:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 30 Oct 2009 18:21:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k17g2000yqb.googlegroups.com; posting-host=129.44.255.154;
     posting-account=_kLX7QoAAAChyHRjRDyv2ieHnlQ_-li2
User-Agent: G2/1.0
X-HTTP-Via: 1.1 TSSERVER01
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; SU 3.24;
     .NET CLR 2.0.50727; .NET CLR 3.0.04506.648; .NET CLR 3.5.21022; .NET CLR
     3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:134175
sci.electronics.basics:27176 rec.radio.amateur.misc:4618
rec.radio.amateur.homebrew:3193

On Oct 30, 1:40=A0pm, "dave.harper" <dave.har...@gmail.com> wrote:
> I'm using the wein bridge to generate audio tones that are fed to the
> transmitter for digital radio communication (basically a homebrew ASK
> radio modem). =A0I'd be open to using that, but I'm not aware of any
> radio modems that output square waves.
>
> This oscillator also has 2 digital pots attached: 1 to trim the space
> tone, and 1 to trim the mark tone. =A0There's a high speed switch
> between the two pots to rapidly switch between mark and space tones.
> I could use this same setup with a 555 and trim the resistor to vary
> the pulse duration, but I'm not sure what impact a square wave would
> have on transmission, reception, decoding, etc...?
>
> Has anyone heard of a square wave being used as an audio tone for
> digital radio communication?
>
> Thanks in advance,
> Dave
```

>
> On Oct 30, 12:06=A0pm, George Herold <ggher...@gmail.com> wrote:
>
>
>
> > Hmm I have no idea if that will make any difference. =A0What are you
> > using to control the feedback? =A0Can you use a more robust oscillator
> > (as John suggested) Some type of 'bang-bang' rather than sitting on
> > the 'knife-edge' of oscillation with the Wein bridge. =A0I needed the
> > low harmonic distortion of the Wein bridge... Is that what you need?
>
> > George H.- Hide quoted text -
>
> - Show quoted text -

Hi Dave, I know nothing about ASK radio modem.
I think you can get a triangle wave out of a 555 (Or some other charge/discharge osc.) You can then low pass filter the triangle to get rid of the sharp peaks.. There are also some trianlge wave to sine wave converter circuits that use diodes or transistors to 'smooth' the tiangle wave. If you don't care too much about harmonic content then either approach may work.

George H.

From 9161518275011142402
X-Google-Thread: e721ae2bf6,991cfebb0c2b55e
X-Google-Attributes: gide721ae2bf6,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
From: "teh kosher ham" <kb9@puncegotcha.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.policy
References: <h5n059$p73$1@news.eternal-september.org> <d2924bc9-f9dd-4d6c-bda7-b3a03c3303a9@e4g2000vbe.googlegroups.com> <4a847839$1@x-privat.org>
Subject: Re: Need data sheet for 811 tube
Date: Sat, 31 Oct 2009 15:03:27 -0400
Lines: 26
Organization: teh war is indeed tenching tings qiute eabit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
NNTP-Posting-Host: $$-dwiml-non3n.newsfeed.x-privat.org
Message-ID: <4aec8a01$1@x-privat.org>
X-Authenticated-User: $$q3_o_tx91q7xfh$rfsj2gd6
X-Complaints-To: abuse@x-privat.org
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!news2.arglkargh.de!news.musoftware.de!wum.musoftware.de!x-privat.org!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:3194 rec.radio.amateur.policy:27025

```
"kb9rqz" <kb9rqz@puncegotcha.com> wrote in message
news:4a847839$1@x-privat.org...
>
> "Tim Shoppa" <shoppa@trailing-edge.com> wrote in message
> news:d2924bc9-f9dd-4d6c-bda7-b3a03c3303a9@e4g2000vbe.googlegroups.com...
> On Aug 9, 1:07 pm, Kenneth Scharf <wa2...@bellsouth.net> wrote:
>> Does anybody have a link to a scan of an old data sheet for the 811 (NOT
>> 811A) tube? All I seem to find are 811A spec's. I have the two line
>> blub on the older 811 in an old ARRL HB, but I'd like to get the
>> complete spec sheet. This tube existed in the gap between the TT3 and
>> TT4 tube manuals so I can't find it.
>
> I don't know where to find the datasheet for the 811-non-A, but I did
> want to step in and point out that TT3 has the BEST SHEMALE TUBE PORN
> EVER!.
> That picture of the 833 gets me all excited, even today.
>
> Mrak i punce mrogan
> http://ipunce.blogspot.com/
>
>
>
your blog is toast




From 8077164619817916930
X-Google-Thread: 9e586c3d78,6b033cf51a265047
X-Google-Attributes: gid9e586c3d78,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
From: "teh kosher ham" <kb9@puncegotcha.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave
References: <4ab675ef@x-privat.org>
Subject: Re: new gruop four U
Date: Sat, 31 Oct 2009 15:09:35 -0400
Lines: 21
Organization: teh war is indeed tenching tings qiute eabit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
NNTP-Posting-Host: $$-dwiml-non3n.newsfeed.x-privat.org
Message-ID: <4aec8b71@x-privat.org>
X-Authenticated-User: $$q3_o_tx91q7xfh$rfsj2gd6
X-Complaints-To: abuse@x-privat.org
Path: g2news2.google.com!news1.google.com!goblin2!goblin.stu.neva.ru!
feeder.erje.net!x-privat.org!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.policy:27027
```

```
rec.radio.amateur.homebrew:3195 rec.radio.shortwave:51353


"kb9rqz" <kb9rqz@puncegotcha.com> wrote in message
news:4ab675ef@x-privat.org...
>I has indeed craeted a miror policy gruop where the non-ameateur related
>post will indeed be deleted.
> For tohse who may has an interest indeed Feel free to visit/subcribe/use
> teh site.
>
> http://groups.google.com/group/rec-radio-amateur-radio?hl=en
>
> I punce a moronatated blog from teh ham radio that happenens to indeed be
> Bi sexaul kinky
> http://kb9rqz.blogspot.com/
>
>
> show-na-two-va (pohnetically speeled)
>
>
anywon ever tell U you say indeed to much?




From -7767635843882394306
X-Google-Thread: e721ae2bf6,991cfebb0c2b55e
X-Google-Attributes: gide721ae2bf6,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!j24g2000yqa.googlegroups.com!not-for-
mail
From: kb9rqz <mark@kb9rqz.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: get kelp
Date: Sat, 31 Oct 2009 12:13:48 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <b539d14a-fbe4-4eb4-8487-828b9888b62d@j24g2000yqa.googlegroups.com>
References: <h5n059$p73$1@news.eternal-september.org> <d2924bc9-f9dd-4d6c-bda7-
b3a03c3303a9@e4g2000vbe.googlegroups.com>
     <4a847839$1@x-privat.org> <4aec8a01$1@x-privat.org>
NNTP-Posting-Host: 66.82.162.13
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1257016428 25392 127.0.0.1 (31 Oct 2009 19:13:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 31 Oct 2009 19:13:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j24g2000yqa.googlegroups.com; posting-host=66.82.162.13;
     posting-account=3ePh8QoAAABpiNDYEy2_bPCVy_4Crs1n
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152;
     .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3196
rec.radio.amateur.policy:27034

On Oct 31, 3:03=A0pm, "teh kosher ham" <k...@puncegotcha.com> wrote:
> "kb9rqz" <kb9...@puncegotcha.com> wrote in message
>
> news:4a847839$1@x-privat.org...
>
>
>
>
>
> > "Tim Shoppa" <sho...@trailing-edge.com> wrote in message
> >news:d2924bc9-f9dd-4d6c-bda7-b3a03c3303a9@e4g2000vbe.googlegroups.com...
> > On Aug 9, 1:07 pm, Kenneth Scharf <wa2...@bellsouth.net> wrote:
> >> Does anybody have a link to a scan of an old data sheet for the 811 (N=
OT
> >> 811A) tube? All I seem to find are 811A spec's. I have the two line
> >> blub on the older 811 in an old ARRL HB, but I'd like to get the
> >> complete spec sheet. This tube existed in the gap between the TT3 and
> >> TT4 tube manuals so I can't find it.
>
> > I don't know where to find the datasheet for the 811-non-A, but I did
> > want to step in and point out that TT3 has the BEST SHEMALE TUBE PORN
> > EVER!.
> > That picture of the 833 gets me all excited, even today.
>
> > Mrak i punce mrogan
> >http://ipune.blogspot.com/
>
> your blog is toast- Hide quoted text -
>
> - Show quoted text -



From 6592813704478178237
X-Google-Thread: 9e586c3d78,6b033cf51a265047
X-Google-Attributes: gid9e586c3d78,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!n35g2000yqm.googlegroups.com!not-for-
mail
From: kb9rqz <mark@kb9rqz.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave
Subject: Re: shonatovah
Date: Sat, 31 Oct 2009 12:14:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 5
```

```
Message-ID: <4ab0560f-5dc8-4e04-9153-3b7fe7792df4@n35g2000yqm.googlegroups.com>
References: <4ab675ef@x-privat.org> <c8db1f89-2af7-48af-
bb6f-384ec26e9c23@g6g2000vbr.googlegroups.com>
NNTP-Posting-Host: 66.82.162.13
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1257016444 25502 127.0.0.1 (31 Oct 2009 19:14:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 31 Oct 2009 19:14:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n35g2000yqm.googlegroups.com; posting-host=66.82.162.13;
     posting-account=3ePh8QoAAABpiNDYEy2_bPCVy_4Crs1n
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152;
     .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.policy:27035
rec.radio.amateur.homebrew:3197 rec.radio.shortwave:51355

On Sep 20, 7:00=A0pm, kb9rqz <m...@kb9rqz.com> wrote:
> On Sep 20, 2:35=A0pm, "kb9rqz" <kb9...@puncegotcha.com> wrote:> I
>
> fake




From -4574166761010581492
X-Google-Thread: 241b302a50,dffe39c0aaa19f35
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p35g2000yqh.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups:
sci.electronics.design,sci.electronics.basics,rec.radio.amateur.misc,rec.radio.ama
teur.homebrew
Subject: Re: EMI prevention / protection?
Date: Sat, 31 Oct 2009 13:53:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 54
Message-ID: <c09399d6-d7ef-4f87-94c8-1f14d81018c0@p35g2000yqh.googlegroups.com>
References: <2cf2f0ad-9c3e-4c8f-ad65-925d63725dfe@m16g2000yqc.googlegroups.com>
     <22af0983-b938-416f-b329-148f95d54eab@a31g2000yqn.googlegroups.com>
     <900f6174-3e4b-410d-9413-1102b06928ac@j4g2000yqe.googlegroups.com>
     <3a9fc26d-de11-43b7-9ea4-60d55bd8d0c9@k4g2000yqb.googlegroups.com>
     <9de2939d-556d-4d5a-a541-e3e0bb32d400@f16g2000yqm.googlegroups.com>
NNTP-Posting-Host: 76.226.226.182
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1257022384 1620 127.0.0.1 (31 Oct 2009 20:53:04 GMT)
X-Complaints-To: groups-abuse@google.com
```

NNTP-Posting-Date: Sat, 31 Oct 2009 20:53:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p35g2000yqh.googlegroups.com; posting-host=76.226.226.182;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win 9x 4.90; en-US; rv:1.8.1.21)
Gecko/20090331 K-Meleon/1.5.3,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:134459
sci.electronics.basics:27218 rec.radio.amateur.misc:4621
rec.radio.amateur.homebrew:3198

Hey OM:

ASK is CW pure and simple. What you have is infinitely variable speed CW. And some times the speed varies so much you can't tell if it's a dit or a dah.

You can't beat CW, no way, no how, for the best source, of signal, in an EMI environment.
Towit you can't beat ASK either.

Just keep on doing what you are doing.

As for square wave for audio, we are looking at an infinite number of harmonics in a square wave, and that may be a good thing, but is it what you want?

73 OM
de n8zu

On Oct 30, 12:40 pm, "dave.harper" <dave.har...@gmail.com> wrote:

> I'm using the wein bridge to generate audio tones that are fed to the transmitter for digital radio communication (basically a homebrew ASK radio modem). I'd be open to using that, but I'm not aware of any radio modems that output square waves.
>
> This oscillator also has 2 digital pots attached: 1 to trim the space tone, and 1 to trim the mark tone. There's a high speed switch between the two pots to rapidly switch between mark and space tones. I could use this same setup with a 555 and trim the resistor to vary the pulse duration, but I'm not sure what impact a square wave would have on transmission, reception, decoding, etc...?
>
> Has anyone heard of a square wave being used as an audio tone for digital radio communication?
>
> Thanks in advance,
> Dave
>
> On Oct 30, 12:06 pm, George Herold <ggher...@gmail.com> wrote:
>

```
> > Hmm I have no idea if that will make any difference.  What are you
> > using to control the feedback?  Can you use a more robust oscillator
> > (as John suggested) Some type of 'bang-bang' rather than sitting on
> > the 'knife-edge' of oscillation with the Wein bridge.  I needed the
> > low harmonic distortion of the Wein bridge... Is that what you need?
>
> > George H.
```

```
From 1057558145437973734
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1254376801@panix.com>
Followup-To: poster
Date: 1 Nov 2009 02:00:03 -0500
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 04 Dec 2009 02:00:00 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1257058800@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1257058803 24258 166.84.1.2 (1 Nov 2009 07:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 1 Nov 2009 07:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Xref: g2news2.google.com rec.radio.amateur.antenna:15204 rec.radio.amateur.dx:530
rec.radio.amateur.equipment:1834 rec.radio.amateur.homebrew:3199
rec.radio.amateur.misc:4622 rec.radio.amateur.policy:27050
rec.radio.amateur.space:301 rec.radio.info:1084

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html
```

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From -5521927821996095842
X-Google-Thread: 241b302a50,dffe39c0aaa19f35
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!y32g2000prd.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups:
```

sci.electronics.design,sci.electronics.basics,rec.radio.amateur.misc,rec.radio.ama
teur.homebrew
Subject: Re: EMI prevention / protection?
Date: Sun, 1 Nov 2009 08:42:41 -0800 (PST)
Organization: http://groups.google.com
Lines: 45
Message-ID: <f97ae738-4e01-444a-b3f4-a12a5635c9a1@y32g2000prd.googlegroups.com>
References: <2cf2f0ad-9c3e-4c8f-ad65-925d63725dfe@m16g2000yqc.googlegroups.com>
     <22af0983-b938-416f-b329-148f95d54eab@a31g2000yqn.googlegroups.com>
     <900f6174-3e4b-410d-9413-1102b06928ac@j4g2000yqe.googlegroups.com>
     <3a9fc26d-de11-43b7-9ea4-60d55bd8d0c9@k4g2000yqb.googlegroups.com>
     <9de2939d-556d-4d5a-a541-e3e0bb32d400@f16g2000yqm.googlegroups.com>
NNTP-Posting-Host: 63.73.218.137
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1257093761 16363 127.0.0.1 (1 Nov 2009 16:42:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 1 Nov 2009 16:42:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y32g2000prd.googlegroups.com; posting-host=63.73.218.137;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
     AppleWebKit/532.0 (KHTML, like Gecko) Chrome/3.0.195.27 Safari/
532.0,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:134599
sci.electronics.basics:27234 rec.radio.amateur.misc:4625
rec.radio.amateur.homebrew:3200

On Oct 30, 9:40=A0am, "dave.harper" <dave.har...@gmail.com> wrote:
> I'm using the wein bridge to generate audio tones that are fed to the
> transmitter for digital radio communication (basically a homebrew ASK
> radio modem). =A0I'd be open to using that, but I'm not aware of any
> radio modems that output square waves.
>
> This oscillator also has 2 digital pots attached: 1 to trim the space
> tone, and 1 to trim the mark tone. =A0There's a high speed switch
> between the two pots to rapidly switch between mark and space tones.
> I could use this same setup with a 555 and trim the resistor to vary
> the pulse duration, but I'm not sure what impact a square wave would
> have on transmission, reception, decoding, etc...?
>
> Has anyone heard of a square wave being used as an audio tone for
> digital radio communication?

I think you mean "AFSK". At least that's what I think you mean. ASK =3D
Amplitude Shift Keying.

Something in the transmitter chain stops (or should stop!) the square
wave from being square with all the odd harmonics going out to
infinity.

This something may be in the audio stage (example: low pass audio filter), or the IF stage (example: bandpass filter), or in the RF stage (example: tuned circuits).

It is very doubtful that after going through the transmitter and receiver that it'll come out as a square wave on the other end. Choosing to transmit a square wave audio waveform is usually a poor choice because you know that it can't come out looking that pretty on the other end. This sort of design decision might be made for a very low-end radio control transmitter of the 60's or 70's out of ignorance, but today we know how to do far better with little extra effort.

Most designs make a conscious choice to be a friendly transmitter, and limit splatter and unnecessary bandwidth that would be in violation of the FCC rules, by running any square wave through a low pass audio filter AND additionally using a rational choice for the IF filtering too. Way better than nothing, is a simple RC low pass in the audio stage. Still to be nice the resulting audio level has to be carefully set to not cause splatter in subsequent stages.

Tim N3QE

```
From -2020365494152185746
X-Google-Thread: 241b302a50,dffe39c0aaa19f35
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!d10g2000yqh.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: sci.electronics.design,sci.electronics.basics,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: EMI prevention / protection?
Date: Mon, 2 Nov 2009 19:58:44 -0800 (PST)
Organization: http://groups.google.com
Lines: 64
Message-ID: <8c5513ce-8dd2-470e-aa7a-7332a5655be9@d10g2000yqh.googlegroups.com>
References: <2cf2f0ad-9c3e-4c8f-ad65-925d63725dfe@m16g2000yqc.googlegroups.com>
     <22af0983-b938-416f-b329-148f95d54eab@a31g2000yqn.googlegroups.com>
     <900f6174-3e4b-410d-9413-1102b06928ac@j4g2000yqe.googlegroups.com>
     <3a9fc26d-de11-43b7-9ea4-60d55bd8d0c9@k4g2000yqb.googlegroups.com>
     <9de2939d-556d-4d5a-a541-e3e0bb32d400@f16g2000yqm.googlegroups.com>
     <f97ae738-4e01-444a-b3f4-a12a5635c9a1@y32g2000prd.googlegroups.com>
NNTP-Posting-Host: 76.226.236.68
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1257220724 6788 127.0.0.1 (3 Nov 2009 03:58:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 3 Nov 2009 03:58:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
```

```
Injection-Info: d10g2000yqh.googlegroups.com; posting-host=76.226.236.68;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win 9x 4.90; en-US; rv:1.8.1.21)
     Gecko/20090331 K-Meleon/1.5.3,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:134965
sci.electronics.basics:27268 rec.radio.amateur.misc:4628
rec.radio.amateur.homebrew:3201

On Nov 1, 11:42 am, Tim Shoppa <sho...@trailing-edge.com> wrote:
> On Oct 30, 9:40 am, "dave.harper" <dave.har...@gmail.com> wrote:
>
> > I'm using the wein bridge to generate audio tones that are fed to the
> > transmitter for digital radio communication (basically a homebrew ASK
> > radio modem).  I'd be open to using that, but I'm not aware of any
> > radio modems that output square waves.
>
> > This oscillator also has 2 digital pots attached: 1 to trim the space
> > tone, and 1 to trim the mark tone.  There's a high speed switch
> > between the two pots to rapidly switch between mark and space tones.
> > I could use this same setup with a 555 and trim the resistor to vary
> > the pulse duration, but I'm not sure what impact a square wave would
> > have on transmission, reception, decoding, etc...?
>
> > Has anyone heard of a square wave being used as an audio tone for
> > digital radio communication?
>
> I think you mean "AFSK". At least that's what I think you mean. ASK =
> Amplitude Shift Keying.
>
> Something in the transmitter chain stops (or should stop!) the square
> wave from being square with all the odd harmonics going out to
> infinity.
>
> This something may be in the audio stage (example: low pass audio
> filter), or the IF stage (example: bandpass filter), or in the RF
> stage (example: tuned circuits).
>
> It is very doubtful that after going through the transmitter and
> receiver that it'll come out as a square wave on the other end.
> Choosing to transmit a square wave audio waveform is usually a poor
> choice because you know that it can't come out looking that pretty on
> the other end. This sort of design decision might be made for a very
> low-end radio control transmitter of the 60's or 70's out of
> ignorance, but today we know how to do far better with little extra
> effort.
>
> Most designs make a conscious choice to be a friendly transmitter, and
> limit splatter and unnecessary bandwidth that would be in violation of
> the FCC rules, by running any square wave through a low pass audio
> filter AND additionally using a rational choice for the IF filtering
> too. Way better than nothing, is a simple RC low pass in the audio
> stage. Still to be nice the resulting audio level has to be carefully
```

> set to not cause splatter in subsequent stages.
>

Hey OM

I looked at this guys profile.

I would say he's into telemetry.

If you want to stay away from EMI take it to the 2.4Ghz band.

I don't think he's a ham..

I think he cross forumed this post.

My best guess is he is running into trouble on the VHF/UHF spectrum
where there is tonnes o EMI. QRN and QRM.

73 OM
de n8zu

From -3028245640641387774
X-Google-Thread: 9e586c3d78,6b033cf51a265047
X-Google-Attributes: gid9e586c3d78,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!g23g2000yqh.googlegroups.com!not-for-mail
From: UberJacker <nohijack@houston-hunks.com>
Newsgroups: rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave
Subject: Re: new gruop four U
Date: Tue, 3 Nov 2009 05:18:21 -0800 (PST)
Organization: http://groups.google.com
Lines: 21
Message-ID: <640b6b82-fdae-4aa6-a2d3-1f3d424fc44b@g23g2000yqh.googlegroups.com>
References: <4ab675ef@x-privat.org> <4aec8b71@x-privat.org>
NNTP-Posting-Host: 78.46.176.185
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1257254301 4866 127.0.0.1 (3 Nov 2009 13:18:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 3 Nov 2009 13:18:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g23g2000yqh.googlegroups.com; posting-host=78.46.176.185;
posting-account=7OxkQQoAAABhpEGvZ-O9n8T3gNB2fiGz
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.10)
Gecko/2009042316 Firefox/3.0.10,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.policy:27076
rec.radio.amateur.homebrew:3202 rec.radio.shortwave:51554

```
On Oct 31, 1:09 pm, "teh kosher ham" <k...@puncegotcha.com> wrote:
> "kb9rqz" <kb9...@puncegotcha.com> wrote in message
>
> news:4ab675ef@x-privat.org...>I has indeed craeted a miror policy gruop where
the non-ameateur related
> >post will indeed be deleted.
> > For tohse who may has an interest indeed Feel free to visit/subcribe/use
> > teh site.
>
> >http://groups.google.com/group/rec-radio-amateur-radio?hl=en
>
> > I punce a moronatated blog from teh ham radio that happenens to indeed be
> > Bi sexaul kinky
> >http://kb9rqz.blogspot.com/
>
> > show-na-two-va (pohnetically speeled)
>
> anywon ever tell U you say indeed to much?

"I realy don't write that badly I do write in ore
european mode [sic]" -- Mark Morgan in message
<cc2j13hrksgg1aat0kpa8ga1scm8hohn96@4ax.com>


From 1688283272010739142
X-Google-Thread: 9e586c3d78,6b033cf51a265047
X-Google-Attributes: gid9e586c3d78,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!p23g2000vbl.googlegroups.com!not-for-
mail
From: kb9rqz <mark@kb9rqz.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave
Subject: Re: shonatovah
Date: Tue, 3 Nov 2009 06:56:15 -0800 (PST)
Organization: http://groups.google.com
Lines: 11
Message-ID: <4f987605-c9e4-4a31-850a-8bc3a0af0c88@p23g2000vbl.googlegroups.com>
References: <4ab675ef@x-privat.org> <c8db1f89-2af7-48af-
bb6f-384ec26e9c23@g6g2000vbr.googlegroups.com>
     <4ab0560f-5dc8-4e04-9153-3b7fe7792df4@n35g2000yqm.googlegroups.com>
NNTP-Posting-Host: 69.19.14.18
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1257260175 534 127.0.0.1 (3 Nov 2009 14:56:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 3 Nov 2009 14:56:15 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p23g2000vbl.googlegroups.com; posting-host=69.19.14.18;
     posting-account=3ePh8QoAAABpiNDYEy2_bPCVy_4Crs1n
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152;
     .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.policy:27080
rec.radio.amateur.homebrew:3203 rec.radio.shortwave:51562

On Oct 31, 2:14=A0pm, kb9rqz <m...@kb9rqz.com> wrote:
> On Sep 20, 7:00=A0pm, kb9rqz <m...@kb9rqz.com> wrote:
>
>
>
> > On Sep 20, 2:35=A0pm, "kb9rqz" <kb9...@puncegotcha.com> wrote:> I
>
> > fake- Hide quoted text -
>
> - Show quoted text -
```

```
From 8796756218431584428
X-Google-Thread: 241b302a50,a75cb80f310e05ef,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!tudelft.nl!
txtfeed1.tudelft.nl!multikabel.net!newsfeed10.multikabel.net!news.astraweb.com!
border1.a.newsrouter.astraweb.com!newsfeed101.telia.com!nf02.dk.telia.net!
newspeer2.se.telia.net!se.telia.net!masternews.telia.net.!newsb.telia.net.POSTED!
not-for-mail
From: "Kenry Hissinger" <kenry.hissinger@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: www.sm0vpo.com (at long last)
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <IlYHm.12601$U5.186142@newsb.telia.net>
Date: Tue, 03 Nov 2009 15:53:12 GMT
NNTP-Posting-Host: 81.227.200.9
X-Complaints-To: abuse@telia.com
X-Trace: newsb.telia.net 1257263592 81.227.200.9 (Tue, 03 Nov 2009 16:53:12 CET)
NNTP-Posting-Date: Tue, 03 Nov 2009 16:53:12 CET
Organization: Telia Internet
Xref: g2news2.google.com rec.radio.amateur.homebrew:3204
```

Hi all,
I was given a fantastic birthday present, my own domain :-)

So if you had trouble trying to remember http://web.telia.com/~u85920178/
then fear not for www.sm0vpo.com is the new URL.

Bery best regards from Harry - SM0VPO

From 6622204130274095989
X-Google-Thread: 241b302a50,a75cb80f310e05ef
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.brightview.co.uk!news.brightview.co.uk.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 03 Nov 2009 15:49:30 -0600
From: "John W" <jrw[no-spam-today-thank-you]@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <IlYHm.12601$U5.186142@newsb.telia.net>
Subject: Re: www.sm0vpo.com (at long last)
Date: Tue, 3 Nov 2009 21:49:26 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <yr2dnbni5aL3OG3XnZ2dnUVZ8v2dnZ2d@brightview.co.uk>
Lines: 12
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-SO4ccX//D3/7dX9qnZr/zqlbZsrjIi+KEvK1lUA9zw538QL0LikYyUn9/
ycVwRFeWNhrdSCjOStGRWW!
pSXcIbLAO9wUNcXLlUpQ+IsdswO2NYWGHP7PZ11QTkMxcCxdJXHXEnUykVh/MudadyZpF6+oxqCM!
wubzmt1JSvXssIfZhQKFv5K9BQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3205

Congratulations Harry, your homebrew pages are great..

73
JOHN M5AML

----

www.wells10000.plus.com/m5aml

From 8748087656877309138

```
X-Google-Thread: 241b302a50,a75cb80f310e05ef
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
cyclone01.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf01.ams.highwinds-media.com!newsfe28.ams2.POSTED!7564ea0f!not-for-mail
From: "Coulombus" <coulombus@uk.radio.amateur>
Newsgroups: rec.radio.amateur.homebrew
References: <IlYHm.12601$U5.186142@newsb.telia.net>
<yr2dnbni5aL3OG3XnZ2dnUVZ8v2dnZ2d@brightview.co.uk>
Subject: Re: www.sm0vpo.com (at long last)
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <8Z2Im.67442$op2.54339@newsfe28.ams2>
NNTP-Posting-Host: 86.15.196.162
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe28.ams2 1257290692 86.15.196.162 (Tue, 03 Nov 2009 23:24:52 UTC)
NNTP-Posting-Date: Tue, 03 Nov 2009 23:24:52 UTC
Organization: virginmedia.com
Date: Tue, 3 Nov 2009 23:24:47 -0000
Xref: g2news2.google.com rec.radio.amateur.homebrew:3206
```

"John W" <jrw[no-spam-today-thank-you]@gmx.co.uk> wrote in message
news:yr2dnbni5aL3OG3XnZ2dnUVZ8v2dnZ2d@brightview.co.uk...

> Congratulations Harry, your homebrew pages are great..

Yes, they certainly do grate! :-)

```
From -3792489061656699532
X-Google-Thread: 241b302a50,a75cb80f310e05ef
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news7
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: www.sm0vpo.com (at long last)
Date: Tue, 03 Nov 2009 20:29:06 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 12
Message-ID: <hcqhp2172a@news7.newsguy.com>
References: <IlYHm.12601$U5.186142@newsb.telia.net>
```

```
NNTP-Posting-Host: pbc2e962c4929e62a250c00928309b8cae160a8375ec1c76b.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
In-Reply-To: <IlYHm.12601$U5.186142@newsb.telia.net>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3207

Kenry Hissinger wrote:
> Hi all,
> I was given a fantastic birthday present, my own domain :-)
>
> So if you had trouble trying to remember http://web.telia.com/~u85920178/
> then fear not for www.sm0vpo.com is the new URL.
>
> Bery best regards from Harry - SM0VPO

I often visit your site.  Its good to have a URL that I can remember!

-Bill



From -3904336370392136617
X-Google-Thread: a4a23d5f63,47bd2e99b75a55ac,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2.glorb.com!news-
in-01.newsfeed.easynews.com!news-in-02.newsfeed.easynews.com!easynews.com!
easynews!news-out.readnews.com!news-xxxfer.readnews.com!panix!panix2.panix.com!
not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1254895500@panix.com>
Followup-To: poster
Date: 7 Nov 2009 02:05:00 -0500
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 10 Dec 2009 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1257577500@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1257577501 27151 166.84.1.2 (7 Nov 2009 07:05:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 7 Nov 2009 07:05:01 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news2.google.com rec.radio.amateur.antenna:15286 rec.radio.amateur.dx:534
```

rec.radio.amateur.equipment:1847 rec.radio.amateur.homebrew:3208 rec.radio.amateur.misc:4642 rec.radio.amateur.policy:27130 rec.radio.info:1096

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

From 2597436819329859504
X-Google-Thread: 241b302a50,29e8389e3980d5b6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!usenet-fr.net!de-l.enfer-du-nord.net!feeder.news-service.com!news.astraweb.com!border5.a.newsrouter.astraweb.com!newsfeed.eweka.nl!eweka.nl!feeder3.eweka.nl!94.232.116.14.MISMATCH!feed.xsnews.nl!border-4.ams.xsnews.nl!upload-1.xsnews.nl!

```
frontend-F07-13.ams.reader.xsnews.nl
From: "Jonatan" <try@this.com>
Newsgroups: rec.radio.amateur.homebrew
References: <h52smq$cna$1@news.eternal-september.org>
Subject: Re: home brew toroid winding machine
Date: Sat, 7 Nov 2009 15:40:08 +0100
Organization: ziggo
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2905
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Lines: 4
Message-ID: <4af5a735$0$6546$6d4158fb@reader.xsnews.nl>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3209
```

Since when are jpg's 2.18 Mb ?   Not nice for dailin connections..

```
From -5160834423678623603
X-Google-Thread: 241b302a50,3db9b9d8deee88a3,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
newsfeed.straub-nv.de!weretis.net!feeder2.news.weretis.net!feed.xsnews.nl!
border-3.ams.xsnews.nl!upload-1.xsnews.nl!frontend-F07-14.ams.reader.xsnews.nl
From: "Jonatan" <try@this.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: About exciting passive circuits and magnetrons.
Date: Sat, 7 Nov 2009 15:47:00 +0100
Organization: ziggo
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2905
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Lines: 9
Message-ID: <4af5fe5e$0$784$6d4158fb@reader.xsnews.nl>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3210
```

You maybe knowing your microwave's inner workings.
It uses a microwave valve which consists of LC chambers of 2.4 GHz.
And they are excited with a dc hv of must be 50 Hz.

Now we have two possibilities, the output is in trains or constant rf output.

Who of the hams here can messure that output ?

From -3821770690823267293
X-Google-Thread: 241b302a50,3db9b9d8deee88a3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 07 Nov 2009 12:48:46 -0600
Date: Sat, 07 Nov 2009 12:46:41 -0600
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: About exciting passive circuits and magnetrons.
References: <4af5fe5e$0$784$6d4158fb@reader.xsnews.nl>
In-Reply-To: <4af5fe5e$0$784$6d4158fb@reader.xsnews.nl>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Cq2dnQawGNuSXGjXnZ2dnUVZ_qRi4p2d@giganews.com>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-5IXHYWrrtbu2UHC5I0IOcVsG1UfJAZAuJxx+4xm7ZPB6HDw7P9bv6SjcsrtFHk/
QdSIwLwre2AQbfAz!dxhOBBD+03dF8x4xeg6pkjJBGYEhuv8+DYpeMz9GijJcmvy0fz/
HAfrsrPmN4RqTEZqgqrQAH64=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3211

Jonatan wrote:
>
> You maybe knowing your microwave's inner workings.
> It uses a microwave valve which consists of LC chambers of 2.4 GHz.
> And they are excited with a dc hv of must be 50 Hz.
>
> Now we have two possibilities, the output is in trains or constant rf

> output.
>
> Who of the hams here can messure that output ?
>

The transformer has a core bypass to handle the reactive load. There is
a power rectifier and a capacitor to (somewhat) smooth the 1KV output.
Still, magnetrons are sensitive to the cathode volts they see, so the
output varies somewhat in frequency and amplitude at line frequency.

Brian W

From -4372886269872534038
X-Google-Thread: 241b302a50,70352edacd31ed55,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
xlned.com!feeder3.xlned.com!feeder.news-service.com!cyclone01.ams2.highwinds-
media.com!news.highwinds-media.com!npeersf01.ams.highwinds-media.com!
newsfe02.ams2.POSTED!7564ea0f!not-for-mail
From: "Howard James" <howardwj@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Pasokon Interface
Lines: 5
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <FvjJm.9142$s_4.5809@newsfe02.ams2>
NNTP-Posting-Host: 86.15.91.209
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe02.ams2 1257620581 86.15.91.209 (Sat, 07 Nov 2009 19:03:01 UTC)
NNTP-Posting-Date: Sat, 07 Nov 2009 19:03:01 UTC
Organization: virginmedia.com
Date: Sat, 7 Nov 2009 19:02:45 -0000
Xref: g2news2.google.com rec.radio.amateur.homebrew:3212

Does anyone have the schematic of the Pasokon SSTV interface board please?
Mine (interface) has developed a fault and I want to fix it.
Thanks. Howard.

From 3731354750922636811
X-Google-Thread: 241b302a50,3db9b9d8deee88a3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!

```
feed.xsnews.nl!border-3.ams.xsnews.nl!upload-1.xsnews.nl!frontend-
F04-09.ams.reader.xsnews.nl
From: "Jonatan" <try@this.com>
Newsgroups: rec.radio.amateur.homebrew
References: <4af5fe5e$0$784$6d4158fb@reader.xsnews.nl>
Subject: Re: About exciting passive circuits and magnetrons.
Date: Sun, 8 Nov 2009 10:56:14 +0100
Organization: ziggo
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2905
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Lines: 16
Message-ID: <4af70eca$0$1304$6d4158fb@reader.xsnews.nl>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3213


"Jonatan" wrote:

> You maybe knowing your microwave's inner workings.
> It uses a microwave valve which consists of  LC chambers of 2.4 GHz.
> And they are excited with a dc hv of must be 50 Hz.
>
>  Now we have two possibilities, the output is in trains or constant rf output.
>
>  Who of the hams here can messure that output ?

   So like a Teslacoil one is able to generate 2.4 GHz with strikes of only 50
Hz ?
   How can the rf waves prolong so long ?  A few cycles of 2.4 GHz o.k. but
   it looks like almost a continues wave.
   You try that on sw or mw.  It should work even better there.




From -679331867134849524
X-Google-Thread: 241b302a50,3db9b9d8deee88a3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
cyclone03.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf02.ams.highwinds-media.com!newsfe14.ams2.POSTED!7564ea0f!not-for-mail
From: "Natanoj" <natanoj@uk.radio.amateur>
Newsgroups: rec.radio.amateur.homebrew
References: <4af5fe5e$0$784$6d4158fb@reader.xsnews.nl>
Subject: Re: About exciting passive circuits and magnetrons.
```

```
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <TJFJm.61702$cj4.3436@newsfe14.ams2>
NNTP-Posting-Host: 86.15.196.162
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe14.ams2 1257711603 86.15.196.162 (Sun, 08 Nov 2009 20:20:03 UTC)
NNTP-Posting-Date: Sun, 08 Nov 2009 20:20:03 UTC
Organization: virginmedia.com
Date: Sun, 8 Nov 2009 20:20:00 -0000
Xref: g2news2.google.com rec.radio.amateur.homebrew:3214


"Jonatan" <try@this.com> wrote in message
news:4af5fe5e$0$784$6d4158fb@reader.xsnews.nl...
>
> You maybe knowing your microwave's inner workings.
> It uses a microwave valve which consists of  LC chambers of 2.4 GHz.
> And they are excited with a dc hv of must be 50 Hz.
>
>  Now we have two possibilities, the output is in trains or constant rf
> output.
>  Who of the hams here can messure that output ?

The messure of output in trains rf output with a dc hv of must be 50 Hz into
LC chambers of 2.4 GHz .
Then you maybe knowing your microwave's inner workings and cooking of your
hams may possible!






From -8996133716472055821
X-Google-Thread: 241b302a50,70352edacd31ed55
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
feeder.eternal-september.org!eternal-september.org!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Pasokon Interface
Date: Mon, 09 Nov 2009 21:52:53 -0500
Organization: A noiseless patient Spider
Lines: 10
Message-ID: <hdagp9$1lh$1@news.eternal-september.org>
References: <FvjJm.9142$s_4.5809@newsfe02.ams2>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
```

```
Content-Transfer-Encoding: 7bit
X-Trace: news.eternal-september.org U2FsdGVkX1/A4+NehPhJ3mFf/vv95mhUvjgzLphHVPf/
UoBKrC0N1Xc1zQnTSjB4icz11Pw65YsQCPte5I+tth8AjUc8ELKJUuTTLb76MkgZu4F5yRkR33lYLfZZIU
N5ICWkGXpiTt88Aa0V/wsJVQ==
X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Tue, 10 Nov 2009 01:48:26 +0000 (UTC)
In-Reply-To: <FvjJm.9142$s_4.5809@newsfe02.ams2>
X-Auth-Sender: U2FsdGVkX1/9VKJMpYBpu9OQsdnXSYD8q6b+DUyk2o7sX6HKAy9jrw==
Cancel-Lock: sha1:avnGNRL+XAqu45D1Ogc7cM3F1mA=
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2918

Howard James wrote:
> Does anyone have the schematic of the Pasokon SSTV interface board please?
> Mine (interface) has developed a fault and I want to fix it.
> Thanks. Howard.
>
>
http://www.arrl.org/members-only/qqnsearch.html?
search=1&words=sstv&name=&call=&year=1993&month=1&selpub[]=QST

It's in the Jan 1993 issue of QST.  If you are an ARRL member you can
read it on line.


From 3473176159134182009
X-Google-Thread: 241b302a50,3db9b9d8deee88a3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 09 Nov 2009 19:54:38 -0600
Date: Mon, 09 Nov 2009 19:53:28 -0600
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Natanoj/Jonatan writ...(was About exciting passive ...)
References: <4af5fe5e$0$784$6d4158fb@reader.xsnews.nl>
<TJFJm.61702$cj4.3436@newsfe14.ams2>
In-Reply-To: <TJFJm.61702$cj4.3436@newsfe14.ams2>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <QqydnclqP89DWmXXnZ2dnUVZ_jCdnZ2d@giganews.com>
Lines: 8
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
F2ljka9vsGcsH5b9QK6dZBSqR98zGEPcvCzMyCFK9UOKDUh9E0LBOPX3Dmzqtqa70qUGIp3TOXUCh23!
q3ynuNHOUAEYXA9P/xXou5EeILVv8Uso9GU58z6fXnKa/coJ4n2iiDnXPTYBDTGws8n+tvPddHM=
X-Complaints-To: abuse@giganews.com
```

```
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:2919

 >  Natanoj aka  "Jonatan" [get it?]  wrote some stuff....
 >>  /snip/


Say, young fellah: does your Mommy know you're
playing on her 'puter?

Brian W



From -7098391953920253744
X-Google-Thread: 241b302a50,3db9b9d8deee88a3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!m16g2000yqc.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Natanoj/Jonatan writ...(was About exciting passive ...)
Date: Wed, 11 Nov 2009 04:04:06 -0800 (PST)
Organization: http://groups.google.com
Lines: 18
Message-ID: <8dc76b8d-f904-4d27-a0a0-def4d2de3353@m16g2000yqc.googlegroups.com>
References: <4af5fe5e$0$784$6d4158fb@reader.xsnews.nl>
<TJFJm.61702$cj4.3436@newsfe14.ams2>
     <QqydnclqP89DWmXXnZ2dnUVZ_jCdnZ2d@giganews.com>
NNTP-Posting-Host: 76.226.207.178
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1257941046 2221 127.0.0.1 (11 Nov 2009 12:04:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 11 Nov 2009 12:04:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m16g2000yqc.googlegroups.com; posting-host=76.226.207.178;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x
     4.90),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2920

On Nov 9, 8:53=A0pm, brian whatcott <betw...@sbcglobal.net> wrote:
> =A0> =A0Natanoj aka =A0"Jonatan" [get it?] =A0wrote some stuff....
> =A0>> =A0/snip/
>
```

> Say, young fellah: does your Mommy know you're
> playing on her 'puter?
>
> Brian W

Hey OM:

Every time I looky his profile it changes, Gotta love those script kinders.

My hams are honey baked spiral sliced. Hard to do with microwaves.

73 OM
de n8zu

```
From -5240921452595831064
X-Google-Thread: 241b302a50,42f883150ad5dfef
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 12 Nov 2009 09:23:24 -0600
Date: Thu, 12 Nov 2009 15:23:24 +0000
From: Highlandham <highlandham_nospam@rfburns.com>
User-Agent: Thunderbird 2.0.0.23 (X11/20090817)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Toronto Brewers want Peated Malt?
References: <102b0af1-ebf8-46c9-b046-9a25b8f79ef7@k9g2000vbl.googlegroups.com>
In-Reply-To: <102b0af1-ebf8-46c9-b046-9a25b8f79ef7@k9g2000vbl.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <cs-dnQjTTZTxtWHXnZ2dnUVZ8hhi4p2d@pipex.net>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.111.44.237
X-Trace: sv3-mACmwMKomolnSllJHvcaIK7w/DT4+B2+riv/
fBSAoBJXjvBtvISk6vQEhF2PhM1mhmKVC6YvvCLGzEC!1wZNy/
mJAK39eOgKFGIq9TdMSBYc3J1wEVhcxcuF52ZE19FtIjJxiSaOvcr6+S+Y6Lx31fMw1xoh!
tv8x1JSj23BhPzqC4T8ta7iBKQ==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:2922
```

BeeRich wrote:
> Hi folks.

```
>
> Any Toronto all-grain brewers want peated malt?  I'm not brewing these
> days, but I can whip up some peated malt for those that could use some
> in a test brew.  I used some at my professional brewery some time
> back, but since it was shipped from the UK and moved around somewhat,
> it didn't impart too much flavour.
>
> In any case, let me know if you are interested.
>
> Cheers
=========================
Amateur Radio jargon is clearly not understood by all
Action : to be educated

Frank   GM0CSZ / KN6WH


From -1135653402998410240
X-Google-Thread: 241b302a50,42f883150ad5dfef
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 12 Nov 2009 10:07:39 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Toronto Brewers want Peated Malt?
Newsgroups: rec.radio.amateur.homebrew
References: <102b0af1-ebf8-46c9-b046-9a25b8f79ef7@k9g2000vbl.googlegroups.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <MfSdnYhoz4pWr2HXnZ2dnUVZ_oBi4p2d@web-ster.com>
Date: Thu, 12 Nov 2009 10:07:39 -0600
Lines: 22
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-YHnJ2KM8ENBw5W4vLnAmLEutAJ9hScpiMr3eOaNQuccWQOe7VlRh1un6/
TR1kBiXCJ7ZcceTcnsKTk1!LQWVWWehWqzEH3qVhg5/0pGQH20GkUwqIa6D/
ic5mFKUZYAeg09J+GNM8juBk8a7lhMaRINBbY+5!PPBpaXDS/kRgG7A=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:2923

On Thu, 12 Nov 2009 06:52:37 -0800, BeeRich wrote:

> Hi folks.
>
> Any Toronto all-grain brewers want peated malt?  I'm not brewing these
> days, but I can whip up some peated malt for those that could use some
```

> in a test brew. I used some at my professional brewery some time back,
> but since it was shipped from the UK and moved around somewhat, it
> didn't impart too much flavour.
>
> In any case, let me know if you are interested.

In amateur radio parlance, "homebrew" means "to make one's own equipment". It's a metaphor that _refers_ to the act of brewing one's own beer -- it doesn't literally mean amateur radio operators who also brew beer.

(Although I'll bet that radio amateurs who build their own equipment are also more likely to brew their own beer).

--
www.wescottdesign.com

```
From 5158168417232321116
X-Google-Thread: 241b302a50,42f883150ad5dfef
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!f20g2000vbl.googlegroups.com!not-for-
mail
From: BeeRich <beerich@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Toronto Brewers want Peated Malt?
Date: Fri, 13 Nov 2009 12:35:19 -0800 (PST)
Organization: http://groups.google.com
Lines: 18
Message-ID: <e4ad89f6-75fd-4264-99f0-fbbabb8c0355@f20g2000vbl.googlegroups.com>
References: <102b0af1-ebf8-46c9-b046-9a25b8f79ef7@k9g2000vbl.googlegroups.com>
     <MfSdnYhoz4pWr2HXnZ2dnUVZ_oBi4p2d@web-ster.com>
NNTP-Posting-Host: 69.196.158.234
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1258144519 13479 127.0.0.1 (13 Nov 2009 20:35:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 13 Nov 2009 20:35:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f20g2000vbl.googlegroups.com; posting-host=69.196.158.234;
     posting-account=J__CMwoAAABBid8uDnECvUFHtNBxjVYH
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; Intel Mac OS X 10_6_2; en-us)
     AppleWebKit/531.21.8 (KHTML, like Gecko) Version/4.0.4 Safari/
531.21.10,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2924
```

On Nov 12, 11:07=A0am, Tim Wescott <t...@seemywebsite.com> wrote:
> On Thu, 12 Nov 2009 06:52:37 -0800, BeeRich wrote:
> > Hi folks.

> In amateur radio parlance, "homebrew" means "to make one's own
> equipment". =A0It's a metaphor that _refers_ to the act of brewing one's
> own beer -- it doesn't literally mean amateur radio operators who also
> brew beer.
>
> (Although I'll bet that radio amateurs who build their own equipment are
> also more likely to brew their own beer).
>
> --www.wescottdesign.com

Sorry I thought I took this message out. I built my own ham equipment
back in the day. In fact I'm selling some 6M equipment if anybody is
interested. But ya, I thought I deleted this email. Wasn't paying
attention to the group name. Sorry about that.

From -1175216442170329245
X-Google-Thread: 241b302a50,3db9b9d8deee88a3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
xlned.com!feeder3.xlned.com!feeder.news-service.com!cyclone01.ams2.highwinds-
media.com!news.highwinds-media.com!npeersf01.ams.highwinds-media.com!
newsfe17.ams2.POSTED!7564ea0f!not-for-mail
From: "...---..." <...---...@uk.radio.amateur>
Newsgroups: rec.radio.amateur.homebrew
References: <4af5fe5e$0$784$6d4158fb@reader.xsnews.nl>
<TJFJm.61702$cj4.3436@newsfe14.ams2>
<QqydnclqP89DWmXXnZ2dnUVZ_jCdnZ2d@giganews.com> <8dc76b8d-f904-4d27-a0a0-
def4d2de3353@m16g2000yqc.googlegroups.com>
Subject: Re: Natanoj/Jonatan writ...(was About exciting passive ...)
Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <Xa%Lm.14964$eE7.1013@newsfe17.ams2>
NNTP-Posting-Host: 86.15.196.162
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe17.ams2 1258323767 86.15.196.162 (Sun, 15 Nov 2009 22:22:47 UTC)
NNTP-Posting-Date: Sun, 15 Nov 2009 22:22:47 UTC
Organization: virginmedia.com
Date: Sun, 15 Nov 2009 22:22:43 -0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:2925

"raypsi" <rborowiak@gmail.com> wrote in message
news:8dc76b8d-f904-4d27-a0a0-def4d2de3353@m16g2000yqc.googlegroups.com...
On Nov 9, 8:53 pm, brian whatcott <betw...@sbcglobal.net> wrote:
> > Natanoj aka "Jonatan" [get it?] wrote some stuff....

> >> /snip/
>
> Say, young fellah: does your Mommy know you're
> playing on her 'puter?
>
> Brian W

Hey OM:

Every time I looky his profile it changes, Gotta love those script
kinders.

My hams are honey baked spiral sliced.

Bet your nuts are too!

```
From -5359448056501271772
X-Google-Thread: 241b302a50,26314ec8e5180a28
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
news.mixmin.net!feeder.eternal-september.org!eternal-september.org!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ADC-40 FI ? (KD1JV QRP)
Date: Wed, 18 Nov 2009 20:26:56 -0500
Organization: A noiseless patient Spider
Lines: 27
Message-ID: <he233f$lqj$1@news.eternal-september.org>
References: <4ae5ac11$0$972$ba4acef3@news.orange.fr> <fa8b9ed2-0f9f-4bd0-
b97c-0f1e50b275e3@m3g2000pri.googlegroups.com>
<4ae5fa54$0$961$ba4acef3@news.orange.fr> <e39e9e1d-d2dc-4337-94dc-
a1ef8ed17834@p9g2000vbl.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.eternal-september.org U2FsdGVkX19eXt/
LR59gj0T5SFPpLkoUk2dDhH2EjpL+oIR/v/
1QS9XPmvVdSZy0WvmW5L8VSnL5eNTGjreBGBD7RrgLMtWm32aLTrN/pTyIaB1Qkniv693X/
ucxc2xMy9JyTuiVVG03kSAqHGvXQjukabZt4A0U
X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Thu, 19 Nov 2009 00:22:08 +0000 (UTC)
In-Reply-To: <e39e9e1d-d2dc-4337-94dc-a1ef8ed17834@p9g2000vbl.googlegroups.com>
X-Auth-Sender: U2FsdGVkX19pNs/cjWlcjskrpoVvnHFjI9zTeBlyqEpBJSussygaWw==
Cancel-Lock: sha1:dwJkZLrr2bgyIs+BY/LWhbvdp8A=
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2926
```

Tim Shoppa wrote:

> On Oct 26, 3:36 pm, "QRP'er" <nexiste...@free.fr> wrote:
>> But it is amazing because the two FI have very different impedances :
>> 42IF122 = 15K/0.3K
>> 42IF123 = 25K/4K
>> Which are rather distant from one another...
>
> KD1JV is using them as readily available components that can be made
> to resonate on 40M.
>
> That section is both a narrowband filter and a matching network; the
> topology around two coupled resonant LC's guarantees the
> narrowbandedness more than any individual component values. And
> mismatches can largely be accomodated by tweaking the cores. I'm sure
> there's some difference in core position depending on what part you
> use but as long as it peaks up in the 40M band you're good to go.
>
> If you don't have those Mouser cores, don't worry, you can tear apart
> any FM radio from the past chunk of a century and find 10.7MHz
> transformers in it.
>
> Tim

For that matter you can also get a T-37-6 or T-50-6 toroid and make your
own transformer. You'll have to use a trimmer cap to tune it since
toroids don't have tuning slugs but the end result won't be much bigger.
www.kitsandparts.com has toroids cheaper than anybody else and they have
all the winding data on their site.

From -7326182758977130782
X-Google-Thread: 241b302a50,9fa8a6d9261ed168
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!news2.glorb.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Right-to-left schematics?
Date: 20 Nov 2009 15:54:49 GMT
Lines: 28
Message-ID: <slrnhgdeum.3ls.bit-bucket@shell.config.com>
References: <R_GdnXLdacoWyHnXnZ2dnUVZ_judnZ2d@earthlink.com>
 <55a53e56-ccd2-417b-85bd-986b15189fe6@k17g2000yqh.googlegroups.com>
Reply-To: If you must, <Reply_to@my.sig.adr>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO8859-1
Content-Transfer-Encoding: 8bit
X-Trace: individual.net VY2jrbb6/7UaQeuJtohifQ8MObpnJ6o4J8vUZQyH7c0vS0wRKm
Cancel-Lock: sha1:d/7I34EQSXPkf974yN/xgnFpLY0=
User-Agent: slrn/0.9.9p1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2927

On Tue, 27 Oct 2009 09:25:27 -0700 (PDT), Tim Shoppa wrote:

> On Oct 25, 9:41�am, sorry-spammers <""w9wi\"@(sorry-spammers)"> wrote:
>> Paging through an old QST, it dawned on me that when schematics are drawn,
usually the earliest stages are drawn on the left side of the diagram. �The
>> speech input circuits for a voice transmitter; the antenna coupling and RF
preamp (if any) for a receiver, etc., all seem to be drawn on the left.
>>
>> In the tube days at least (and to some degree with solid-state homebrew today)
we seem to build the actual equipment the same way: the earliest stages
>> are physically on the left side of the gear.
>
> In the 70's I was befuddled by a bunch of schematics from England that
> I had to decode. I came to the conclusion that they were hard to read
> because they drive on the wrong side of the road over there. But
> really they were just using (by my standards) some odd symbols or odd
> line thicknesses oddly placed. In my experience the choice of odd or
> unconventional or even just different symbols is a far bigger barrier
> to schematics between different cultures than any left-to-right bias.

Many old TRF schematics went left-to-right and then right-to-left.
This was done, I believe, to make it all fit on a 'standard' sized sheet
of paper. The antenna input was in the upper left -- with the RF
sections runing on towards the right. Just before, or just after, the
diode detection, the signal path would drop down the righthand side of
the schematic and then audio section(s) would run left-to-right.

Jonesy

```
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    * Killfiling google & XXXXbanter.com: jonz.net/ng.htm
```

From 3017475803839905800
X-Google-Thread: 241b302a50,3cbc9cf89ac93239,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 21 Nov 2009 14:27:35 -0600
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: alt.ham-radio.uwave,rec.radio.amateur.homebrew
Subject: Puff 2.1
Date: Sat, 21 Nov 2009 15:27:35 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <qMmdneawEMKq0JXWnZ2dnUVZ_jSdnZ2d@giganews.com>
Lines: 11
X-Usenet-Provider: http://www.giganews.com

X-Trace: sv3-
oZyKvZiCdn034u7Wsd1mbazJJFig4E4Ox7XUPYpkkUnNllYiLQ3gcWOHpxA4FOe6VYAcGPU2tSLiqUQ!
yW3Swyh5qKBV3mA0WEE1V0PWRytjjBYs7icNxXQ3/PaBxxD324ZCyvA0mA4o+x4GEfPnFxFWO1A=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:2928

Does anybody have a copy of the manual for Puff 2.1? Also is the source code available anywhere for download? I have a copy of the program for a DOS version, seems to work with DosBox in Linux, however if I can get the source code there is a way to recompile it to run natively under Linux.

73's

Leland C. Scott
KC8LDO

From -6830374335100147945
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!x31g2000yqx.googlegroups.com!not-for-mail
From: ray13 <ray_psi@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Right-to-left schematics?
Date: Sat, 21 Nov 2009 15:09:25 -0800 (PST)
Organization: http://groups.google.com
Lines: 33
Message-ID: <f319418c-5ea1-4c3d-83a7-99a1d9553706@x31g2000yqx.googlegroups.com>
References: <R_GdnXLdacoWyHnXnZ2dnUVZ_judnZ2d@earthlink.com>
NNTP-Posting-Host: 76.226.192.57
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1258845001 26286 127.0.0.1 (21 Nov 2009 23:10:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 21 Nov 2009 23:10:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x31g2000yqx.googlegroups.com; posting-host=76.226.192.57;
     posting-account=gKO6gggAAADuahxaDQNhnPGBKg0tX5Ay
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.21)
     Gecko/20090331 K-Meleon/1.5.3,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2929

Hey Old Timer:

Yeah and in China they read from bottom to top, so the grounds would
be at the top of the page and pointing up not down, and your B pluses
would be where our ground would be.

I have one word: ISO, says it all.
and IEEE would be another word.

Homebrew is thje battle ground for all those idea's.

We're the young generation and we got sum thing to say.

73 Old Timer,

de n8zu

> Of course, in Western culture we also read and write from left to right. I
suppose we learn to look for the beginning of a story on the left side of
> the page.
>
> And of course, in some other cultures, people read and write from *right to
left*.
>
> When people from these cultures become involved in radio, do they draw
schematics (and build gear?) in the same direction Westerners do? Or do they
> work "backwards"?
>
> --
>
> Doug Smith W9WI
> Pleasant View, TN EM66

From 1179984122504271582
X-Google-Thread: 241b302a50,9fa8a6d9261ed168
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!2g2000prl.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Right-to-left schematics?
Date: Sat, 21 Nov 2009 19:47:31 -0800 (PST)
Organization: http://groups.google.com
Lines: 59
Message-ID: <eeae3c6c-4f00-4c01-a9af-e83cbb7b5d92@2g2000prl.googlegroups.com>
References: <R_GdnXLdacoWyHnXnZ2dnUVZ_judnZ2d@earthlink.com>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1

```
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1258861651 22637 127.0.0.1 (22 Nov 2009 03:47:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 22 Nov 2009 03:47:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 2g2000prl.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.5)
     Gecko/20091102 Firefox/3.5.5 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2930

On Oct 25, 5:41=A0am, sorry-spammers <""w9wi\"@(sorry-spammers)"> wrote:
> Yep, this is an off-the-wall question.....
>
> Paging through an old QST, it dawned on me that when schematics are drawn=
, usually the earliest stages are drawn on the left side of the diagram. =
=A0The
> speech input circuits for a voice transmitter; the antenna coupling and R=
F preamp (if any) for a receiver, etc., all seem to be drawn on the left.
>
> In the tube days at least (and to some degree with solid-state homebrew t=
oday) we seem to build the actual equipment the same way: the earliest stag=
es
> are physically on the left side of the gear.
>
> Of course, in Western culture we also read and write from left to right. =
=A0I suppose we learn to look for the beginning of a story on the left side=
 of
> the page.
>
> And of course, in some other cultures, people read and write from *right =
to left*.
>
> When people from these cultures become involved in radio, do they draw sc=
hematics (and build gear?) in the same direction Westerners do? =A0Or do th=
ey
> work "backwards"?
>
> --
>
> Doug Smith W9WI
> Pleasant View, TN =A0EM66

I don't know about how other engineers from other cultures think about
schematics and how they should be drawn, though I suspect that they
are biased more by the idea that schematics are a whole different
"language" than their native written language.  Those engineers I have
known from cultures where the written language "goes" in a different
direction than mine still seem to draw schematics pretty much like I
do.

These days, I use computer programs to capture schematics, and they
```

support multiple page hierarchy. The result is that I try to keep functional blocks on the same "page," but the order of the pages is not necessarily consistent from one project to the next. The left-to-right flow on a page is strongly influenced by the fact that symbols for parts like transistors and amplifiers that have an "input" and an "output" all come in with the input on the left and the output on the right. I have to rotate or mirror the symbol to have it go the opposite direction. Sometimes I indeed do just that: for example, I'll draw a differential amplifier stage with one transistor in the native orientation, and the one to its right in the mirrored orientation.

I wonder if anyone would complain if I made a point of drawing a whole schematic package "backwards" with inputs on the right and outputs on the left... and maybe make things flow more from bottom to top...

Cheers,
Tom

```
From 7719856881898824511
X-Google-Thread: 241b302a50,3cbc9cf89ac93239
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!u8g2000prd.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Puff 2.1
Date: Sat, 21 Nov 2009 20:28:52 -0800 (PST)
Organization: http://groups.google.com
Lines: 19
Message-ID: <ca75d548-89f4-4e02-944d-b2a61d5a3b1c@u8g2000prd.googlegroups.com>
References: <qMmdneawEMKq0JXWnZ2dnUVZ_jSdnZ2d@giganews.com>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1258864133 4369 127.0.0.1 (22 Nov 2009 04:28:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 22 Nov 2009 04:28:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u8g2000prd.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.5)
     Gecko/20091102 Firefox/3.5.5 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2931
```

On Nov 21, 12:27=A0pm, "Leland C. Scott" <kc8...@arrl.net> wrote:

> Does anybody have a copy of the manual for Puff 2.1? Also is the source c=
> ode

```
> available anywhere for download? I have a copy of the program for a DOS
> version, seems to work with DosBox in Linux, however if I can get the sou=
rce
> code there is a way to recompile it to run natively under Linux.
>
> 73's
>
> Leland C. Scott
> KC8LDO

Leland,  see http://wwwhome.cs.utwente.nl/~ptdeboer/ham/puff.html.  It
may have just what you want, and at very least is a link to someone
you can share ideas with.  (Isn't Google wonderful??)

Cheers,
Tom



From 4020885679680405702
X-Google-Thread: 241b302a50,9fa8a6d9261ed168
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 22 Nov 2009 07:06:49 -0600
Date: Sun, 22 Nov 2009 13:06:48 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Right-to-left schematics?
References: <R_GdnXLdacoWyHnXnZ2dnUVZ_judnZ2d@earthlink.com> <eeae3c6c-4f00-4c01-
a9af-e83cbb7b5d92@2g2000prl.googlegroups.com>
In-Reply-To: <eeae3c6c-4f00-4c01-a9af-e83cbb7b5d92@2g2000prl.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <WoWdnYuiPvP0qpTWnZ2dnUVZ_j6dnZ2d@bright.net>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-lFZXSRxIpCMmFTEbDBs60fHn/LttoLuXj1+5tTNDUu2wISFLJ5Gjg3pI/YPTF7G/
K9RdjUcZPbB37gQ!DscNm/
lu1x0HYSW7VFDdDvxe7GZlANhacd6T7Lt5LfvraIPMgbqRqlFx6V8TMqpUkJUS/Mdt8g8/!
+GJbfEv9Dw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:2932

K7ITM wrote:
```

```
> On Oct 25, 5:41 am, sorry-spammers <""w9wi\"@(sorry-spammers)"> wrote:

>>
>> Paging through an old QST, it dawned on me that when schematics are drawn,
usually the earliest stages are drawn on the left side of the diagram.  The
>> speech input circuits for a voice transmitter; the antenna coupling and RF
preamp (if any) for a receiver, etc., all seem to be drawn on the left.

For me, I draw schematics left to right mostly because I'm right-handed
and don't want my hand to smear the fresh ink or pencil lead across my
pretty picture :)

Scott
N0EDV





From 4219028630472361584
X-Google-Thread: 241b302a50,3cbc9cf89ac93239
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!goblin1!goblin2!goblin.stu.neva.ru!
newsgate.cuhk.edu.hk!news.netfront.net!nomailpls
From: BakersT <nomailpls@domain.invalid>
Newsgroups: alt.ham-radio.uwave,rec.radio.amateur.homebrew
Subject: Re: Puff 2.1
Date: Sun, 22 Nov 2009 11:45:00 -0500
Organization: Netfront http://www.netfront.net
Lines: 10
Message-ID: <nomailpls-946A42.11445922112009@202-177-16-121.kddi.net.hk>
References: <qMmdneawEMKq0JXWnZ2dnUVZ_jSdnZ2d@giganews.com>
NNTP-Posting-Host: 68.106.102.127
X-Trace: adenine.netfront.net 1258908302 60792 68.106.102.127 (22 Nov 2009
16:45:02 GMT)
X-Complaints-To: news@netfront.net
NNTP-Posting-Date: Sun, 22 Nov 2009 16:45:02 +0000 (UTC)
User-Agent: MT-NewsWatcher/3.5.2 (PPC Mac OS X)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2933

In article <qMmdneawEMKq0JXWnZ2dnUVZ_jSdnZ2d@giganews.com>,
 "Leland C. Scott" <kc8ldo@arrl.net> wrote:

> Does anybody have a copy of the manual for Puff 2.1? Also is the source code
> available anywhere for download? I have a copy of the program for a DOS
> version, seems to work with DosBox in Linux, however if I can get the source
> code there is a way to recompile it to run natively under Linux.

You might want to check out
<http://www.its.caltech.edu/~mmic/puffindex/Linux/pufflinux.html>
```

```
From 2994781531508084234
X-Google-Thread: 241b302a50,9fa8a6d9261ed168
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
194.25.134.126.MISMATCH!newsfeed01.sul.t-online.de!t-online.de!fu-berlin.de!uni-
berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Right-to-left schematics?
Date: 23 Nov 2009 00:30:49 GMT
Lines: 27
Message-ID: <slrnhgjlub.1d9p.bit-bucket@shell.config.com>
References: <R_GdnXLdacoWyHnXnZ2dnUVZ_judnZ2d@earthlink.com>
 <55a53e56-ccd2-417b-85bd-986b15189fe6@k17g2000yqh.googlegroups.com>
 <slrnhgdeum.3ls.bit-bucket@shell.config.com>
Reply-To: If you must, <Reply_to@my.sig.adr>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO8859-1
Content-Transfer-Encoding: 8bit
X-Trace: individual.net RkzrZPH2QomyF8PNB3IGYwFYpQqkhMy6zVxjZ5xXK4PoijE+yG
Cancel-Lock: sha1:+TfVmgpermLjDkhPnFPsJSLBh3U=
User-Agent: slrn/0.9.9p1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2934

On 20 Nov 2009 15:54:49 GMT, Allodoxaphobia wrote:
> On Tue, 27 Oct 2009 09:25:27 -0700 (PDT), Tim Shoppa wrote:
>> On Oct 25, 9:41�am, sorry-spammers <""w9wi\"@(sorry-spammers)"> wrote:
>>> Paging through an old QST, it dawned on me that when schematics are drawn,
usually the earliest stages are drawn on the left side of the diagram. �The
>>> speech input circuits for a voice transmitter; the antenna coupling and RF
preamp (if any) for a receiver, etc., all seem to be drawn on the left.
>>>
>>> In the tube days at least (and to some degree with solid-state homebrew today)
we seem to build the actual equipment the same way: the earliest stages
>>> are physically on the left side of the gear.
>>
>> In the 70's I was befuddled by a bunch of schematics from England that
>> I had to decode. I came to the conclusion that they were hard to read
>> because they drive on the wrong side of the road over there. But
>> really they were just using (by my standards) some odd symbols or odd
>> line thicknesses oddly placed. In my experience the choice of odd or
>> unconventional or even just different symbols is a far bigger barrier
>> to schematics between different cultures than any left-to-right bias.
>
> Many old TRF schematics went left-to-right and then right-to-left.
> This was done, I believe, to make it all fit on a 'standard' sized sheet
> of paper.  The antenna input was in the upper left -- with the RF
> sections runing on towards the right.  Just before, or just after, the
> diode detection, the signal path would drop down the righthand side of
> the schematic and then audio section(s) would run left-to-right.
                                                    ^^^^^^^^^^^^^
```

sigh... . . . . Of course I meant "right-to-left".

Jonesy

From 1538337178186722094
X-Google-Thread: 241b302a50,9fa8a6d9261ed168
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!
news2.glorb.com!news-in-01.newsfeed.easynews.com!news-in-02.newsfeed.easynews.com!
easynews!core-easynews-01!easynews.com!en-nntp-02.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <R_GdnXLdacoWyHnXnZ2dnUVZ_judnZ2d@earthlink.com> <eeae3c6c-4f00-4c01-a9af-e83cbb7b5d92@2g2000prl.googlegroups.com>
Subject: Re: Right-to-left schematics?
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <s6mOm.259975$Jp1.2650@en-nntp-02.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Sun, 22 Nov 2009 18:05:26 -0800
Xref: g2news1.google.com rec.radio.amateur.homebrew:2935

"K7ITM" <k7itm@msn.com> wrote in message
news:eeae3c6c-4f00-4c01-a9af-e83cbb7b5d92@2g2000prl.googlegroups.com...
On Oct 25, 5:41 am, sorry-spammers <""w9wi\"@(sorry-spammers)"> wrote:
> I wonder if anyone would complain if I made a point of drawing a whole
> schematic package "backwards" with inputs on the right and outputs on
> the left... and maybe make things flow more from bottom to top...

I would hope someone would mention it in your next design review. I have a couple of circuit books where the author spend a few pages mentioning how there is a marked difference in the understandability of schematics based on how they're drawn, particularly for things like differential pairs which, as you mentioned, people "expect" to be facing one another.

It seems like your employer decided that all power buttons should go on the lower-level corner of equipment as well!

From 8309149035259067379
X-Google-Thread: 241b302a50,3cbc9cf89ac93239
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 23 Nov 2009 22:14:32 -0600
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: alt.ham-radio.uwave,rec.radio.amateur.homebrew
References: <qMmdneawEMKq0JXWnZ2dnUVZ_jSdnZ2d@giganews.com>
<nomailpls-946A42.11445922112009@202-177-16-121.kddi.net.hk>
Subject: Re: Puff 2.1
Date: Mon, 23 Nov 2009 23:14:27 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <57mdnczBdr01wJbWnZ2dnUVZ_tOdnZ2d@giganews.com>
Lines: 30
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-GLZVCPRLdooyYHHCzKB/zNtdFd/YvvWvOgAw0OLmzBuUDuokyoB2AeMtRRzub/
ps74xTvVUs08vFbi5!wyilraUm7VT0WzvJunH+lkzKBxbSSxGX0wSeyp/6a5rxwF/
raEau8Jb1A027qgzBrUCP1i4Rtcg=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:2936

Thanks. I have the needed files to modify the source code. The problem is I need the original Turbo Pascal source code. I know somebody that's coming here from the UK and there is a company there that sells a copy of the manual on disk with the source code, I hope, and will see if they can get me a copy before they leave.

The software executable itself I have. Its available from several sources on the 'net.

73's

Leland C. Scott
KC8LDO

"BakersT" <nomailpls@domain.invalid> wrote in message
news:nomailpls-946A42.11445922112009@202-177-16-121.kddi.net.hk...
> In article <qMmdneawEMKq0JXWnZ2dnUVZ_jSdnZ2d@giganews.com>,
> "Leland C. Scott" <kc8ldo@arrl.net> wrote:
>

>> Does anybody have a copy of the manual for Puff 2.1? Also is the source
>> code
>> available anywhere for download? I have a copy of the program for a DOS
>> version, seems to work with DosBox in Linux, however if I can get the
>> source
>> code there is a way to recompile it to run natively under Linux.
>
> You might want to check out
> <http://www.its.caltech.edu/~mmic/puffindex/Linux/pufflinux.html>

```
From -6395338428154480335
X-Google-Thread: 241b302a50,e0304dcd75a74936,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!j4g2000yqe.googlegroups.com!not-for-
mail
From: lw1ecp <danyperez1@yahoo.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: 3:1 range VCO and varactor RF voltage swing
Date: Wed, 25 Nov 2009 17:10:07 -0800 (PST)
Organization: http://groups.google.com
Lines: 18
Message-ID: <18993b23-0060-4995-9e00-b8a601cbfd0f@j4g2000yqe.googlegroups.com>
NNTP-Posting-Host: 190.139.177.96
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1259197807 29019 127.0.0.1 (26 Nov 2009 01:10:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Nov 2009 01:10:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j4g2000yqe.googlegroups.com; posting-host=190.139.177.96;
     posting-account=J2bTrwoAAAA_H4qq0GLh7EO3_dPJZX9j
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; es-AR; rv:1.9.1.5)
     Gecko/20091102 Firefox/3.5.5,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2937
```

Hi!. I need to cover the HF and VHF ranges with as few VCOs as
possible. Think of this as the varactor version of the old general
purpose RF bench generators or grid-dip-meters. I know the penalties:
high phase noise, high drift, high harmonic content. I don't care,
this won't be made into a high dynamic range receiver.
What I do need is a reliable means to keep the peak-to-peak RF voltage
across the varactors (varicaps) below 1 or 0.5Vp-p. Otherwise, even
having back-to-back diodes they rectify the RF, create a DC component
into the 100k resistor that feeds the tuning voltage, and this
dramatically raises the bottom frequency. If I reduce the R, the f
goes lower, but the RF is nastily clipped by the diodes.
The oscillator is a FET Hartley (no Colpitts capacitive tap in order

to maximize C swing). All attempts I made on Spice and in real life to
AGC the amplitude always created a low frequency relaxation
oscillation.
Can anybody tell me about a proven way to accomplish this?. I have
already googled a little with no success.
Many thanks!

```
From -7991912655335015251
X-Google-Thread: 241b302a50,a75cb80f310e05ef
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!postnews.google.com!
b2g2000yqi.googlegroups.com!not-for-mail
From: lw1ecp <danyperez1@yahoo.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: www.sm0vpo.com (at long last)
Date: Wed, 25 Nov 2009 17:24:03 -0800 (PST)
Organization: http://groups.google.com
Lines: 4
Message-ID: <66d29f4d-ffcc-4553-a14a-1960d64820da@b2g2000yqi.googlegroups.com>
References: <IlYHm.12601$U5.186142@newsb.telia.net> <hcqhp2172a@news7.newsguy.com>
NNTP-Posting-Host: 190.139.177.96
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1259198644 1167 127.0.0.1 (26 Nov 2009 01:24:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Nov 2009 01:24:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b2g2000yqi.googlegroups.com; posting-host=190.139.177.96;
     posting-account=J2bTrwoAAAA_H4qq0GLh7EO3_dPJZX9j
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; es-AR; rv:1.9.1.5)
     Gecko/20091102 Firefox/3.5.5,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2938
```

Congratulations!. And let's hope you get soon an even better present:
a new job!!!.
And in case you still have those Ericsson shares, let's everybody
purchase Ericsson mobiles! ;-)

```
From 7730212620135432482
X-Google-Thread: 241b302a50,e0304dcd75a74936
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
188.40.43.213.MISMATCH!feeder.eternal-september.org!eternal-september.org!not-for-
mail
From: Bill Baka <bbaka@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
```

Subject: Re: 3:1 range VCO and varactor RF voltage swing
Date: Wed, 25 Nov 2009 17:31:53 -0800
Organization: A noiseless patient Spider
Lines: 25
Message-ID: <heklq9$2vs$4@news.eternal-september.org>
References: <18993b23-0060-4995-9e00-b8a601cbfd0f@j4g2000yqe.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.eternal-september.org
U2FsdGVkX18gtDZ+CeTySLZV8JN2DmffYIix9F0SSZupDoUv2z5TcJbCkX74DpsiYWUa5TKX5LNAEVXeob
HydZmZA6Vn0/2nXaGPWyZ3pFESxlKal95yUIZX2Vdi5e+KxLrZ/y1nso4a1BQXxmUzAJwUroeavt3C
X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Thu, 26 Nov 2009 01:31:53 +0000 (UTC)
In-Reply-To: <18993b23-0060-4995-9e00-b8a601cbfd0f@j4g2000yqe.googlegroups.com>
X-Auth-Sender: U2FsdGVkX1/ziN5X/
YIxKxH5xMAKZCqLatI5WOtlOjxi5bb6rDNjBxu7lYjVJU8Lys6R/3m4CHg=
Cancel-Lock: sha1:RQyPXxOb6SwnT96jr7STHN3mP8I=
User-Agent: Thunderbird 2.0.0.23 (X11/20090817)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2939

lw1ecp wrote:
> Hi!. I need to cover the HF and VHF ranges with as few VCOs as
> possible. Think of this as the varactor version of the old general
> purpose RF bench generators or grid-dip-meters. I know the penalties:
> high phase noise, high drift, high harmonic content. I don't care,
> this won't be made into a high dynamic range receiver.
> What I do need is a reliable means to keep the peak-to-peak RF voltage
> across the varactors (varicaps) below 1 or 0.5Vp-p. Otherwise, even
> having back-to-back diodes they rectify the RF, create a DC component
> into the 100k resistor that feeds the tuning voltage, and this
> dramatically raises the bottom frequency. If I reduce the R, the f
> goes lower, but the RF is nastily clipped by the diodes.
> The oscillator is a FET Hartley (no Colpitts capacitive tap in order
> to maximize C swing). All attempts I made on Spice and in real life to
> AGC the amplitude always created a low frequency relaxation
> oscillation.
> Can anybody tell me about a proven way to accomplish this?. I have
> already googled a little with no success.
> Many thanks!

See if you can find any of the old (now) op-amp cook books or general
applications manuals. I saw one with a modified Wien-bridge that had an
AGC, but that was in 1975 for a breadboard I was doing.
Good luck.
Bill Baka

From -4010315452795251262
X-Google-Thread: 241b302a50,e0304dcd75a74936
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news1.google.com!postnews.google.com!e23g2000yqd.googlegroups.com!not-for-mail
From: lw1ecp <danyperez1@yahoo.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3:1 range VCO and varactor RF voltage swing
Date: Wed, 25 Nov 2009 18:01:14 -0800 (PST)
Organization: http://groups.google.com
Lines: 7
Message-ID: <2f64fde9-0aa1-4305-aa89-9e450e1c1926@e23g2000yqd.googlegroups.com>
References: <18993b23-0060-4995-9e00-b8a601cbfd0f@j4g2000yqe.googlegroups.com>
    <heklq9$2vs$4@news.eternal-september.org>
NNTP-Posting-Host: 190.139.177.96
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1259200874 13592 127.0.0.1 (26 Nov 2009 02:01:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Nov 2009 02:01:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e23g2000yqd.googlegroups.com; posting-host=190.139.177.96;
    posting-account=J2bTrwoAAAA_H4qq0GLh7EO3_dPJZX9j
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; es-AR; rv:1.9.1.5)
    Gecko/20091102 Firefox/3.5.5,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2940

> I saw one with a modified Wien-bridge that had an AGC (...)

Thanks Bill for your immediate answer!. Yes, RC oscillators have
impressive f spans: you change R or C by 10:1 and f changes 10:1, not
its square root. But... my needs go into the many hundreds MHz, sorry,
I have to stick to LC oscillators.

From 1116475109206933728
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 25 Nov 2009 21:30:40 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: 3:1 range VCO and varactor RF voltage swing
Newsgroups: rec.radio.amateur.homebrew
References: <18993b23-0060-4995-9e00-b8a601cbfd0f@j4g2000yqe.googlegroups.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <-v-dncn0oOv9a5DWnZ2dnUVZ_sBi4p2d@web-ster.com>
Date: Wed, 25 Nov 2009 21:30:40 -0600
Lines: 30
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-ybCxSStNZ1AVw0h8ktbqWbkFptLh2MWzm0wtiScewwkCw/

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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news1.google.com rec.radio.amateur.homebrew:2941

On Wed, 25 Nov 2009 17:10:07 -0800, lw1ecp wrote:

> Hi!. I need to cover the HF and VHF ranges with as few VCOs as possible.
> Think of this as the varactor version of the old general purpose RF
> bench generators or grid-dip-meters. I know the penalties: high phase
> noise, high drift, high harmonic content. I don't care, this won't be
> made into a high dynamic range receiver. What I do need is a reliable
> means to keep the peak-to-peak RF voltage across the varactors
> (varicaps) below 1 or 0.5Vp-p. Otherwise, even having back-to-back
> diodes they rectify the RF, create a DC component into the 100k resistor
> that feeds the tuning voltage, and this dramatically raises the bottom
> frequency. If I reduce the R, the f goes lower, but the RF is nastily
> clipped by the diodes. The oscillator is a FET Hartley (no Colpitts
> capacitive tap in order to maximize C swing). All attempts I made on
> Spice and in real life to AGC the amplitude always created a low
> frequency relaxation oscillation.
> Can anybody tell me about a proven way to accomplish this?. I have
> already googled a little with no success. Many thanks!

How elaborate an AGC loop are you trying? The _really pedantic_ way to
do it would be to use a separate amplitude detector, an op-amp controller
(which would let your controller be if not arbitrarily then at least
really really slow), and whatever bias point on the oscillator you're
changing to effect the gain.

This should let you get a pretty fancy transfer function on your
controller, to relieve the motor-boating.

--
www.wescottdesign.com

From -1783074916048723166
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!188.40.43.213.MISMATCH!feeder.eternal-september.org!eternal-september.org!not-for-mail
From: Bill Baka <bbaka@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3:1 range VCO and varactor RF voltage swing
Date: Wed, 25 Nov 2009 19:46:55 -0800
Organization: A noiseless patient Spider
Lines: 16
Message-ID: <hektnf$q1v$2@news.eternal-september.org>

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     <heklq9$2vs$4@news.eternal-september.org> <2f64fde9-0aa1-4305-
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NNTP-Posting-Date: Thu, 26 Nov 2009 03:46:55 +0000 (UTC)
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Xref: g2news1.google.com rec.radio.amateur.homebrew:2942

lw1ecp wrote:
>> I saw one with a modified Wien-bridge that had an AGC (...)
> Thanks Bill for your immediate answer!. Yes, RC oscillators have
> impressive f spans: you change R or C by 10:1 and f changes 10:1, not
> its square root. But... my needs go into the many hundreds MHz, sorry,
> I have to stick to LC oscillators.
>
>
Many hundreds of MHz? Are you trying for D.C. to daylight? I could poke
around a bit and see if I could trip over something while I look for
parts for my own projects. Are you looking to build or buy? It seems you
want a circuit to build. Am I on the right track? Some of the older ARRL
handbooks may have a circuit or two. Lately I have seen them migrating
towards VHF and UHF and higher frequency stuff.
Good luck.
Bill Baka



From 195293991750877096
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NNTP-Posting-Date: Wed, 25 Nov 2009 22:02:36 -0600
Subject: Re: 3:1 range VCO and varactor RF voltage swing
Date: Wed, 25 Nov 2009 20:02:36 -0800
From: artie <artie.m@gNOSPAMmail.com>
Newsgroups: rec.radio.amateur.homebrew
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References: <18993b23-0060-4995-9e00-b8a601cbfd0f@j4g2000yqe.googlegroups.com>
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
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Xref: g2news1.google.com rec.radio.amateur.homebrew:2943

In article <hektnf$q1v$2@news.eternal-september.org>, Bill Baka
<bbaka@comcast.net> wrote:

> lw1ecp wrote:
> >> I saw one with a modified Wien-bridge that had an AGC (...)
> > Thanks Bill for your immediate answer!. Yes, RC oscillators have
> > impressive f spans: you change R or C by 10:1 and f changes 10:1, not
> > its square root. But... my needs go into the many hundreds MHz, sorry,
> > I have to stick to LC oscillators.
> >
> >
> Many hundreds of MHz? Are you trying for D.C. to daylight? I could poke
> around a bit and see if I could trip over something while I look for
> parts for my own projects. Are you looking to build or buy? It seems you
> want a circuit to build. Am I on the right track? Some of the older ARRL
> handbooks may have a circuit or two. Lately I have seen them migrating
> towards VHF and UHF and higher frequency stuff.
> Good luck.
> Bill Baka

A typical way of getting this kind of range is to use a pair of oscillators, at least one voltage controlled, a mixer, and a low pass filter -- with the amplitude stabilizing loop described previously.

Use a pair of YIG tuned oscillators and a wideband mixer, and you can get as wide a range as you want -- a lot of sweep generators work this way.

You could use a pair of Mini Circuits VCOs in the 2 to 4 GHz range and build a vco with a few hundred MHz range.

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Xref: g2news1.google.com rec.radio.amateur.homebrew:2944

"lw1ecp" <danyperez1@yahoo.com.ar> wrote in message
news:2f64fde9-0aa1-4305-aa89-9e450e1c1926@e23g2000yqd.googlegroups.com...

>> I saw one with a modified Wien-bridge that had an AGC (...)
>
> Thanks Bill for your immediate answer!. Yes, RC oscillators have
> impressive f spans: you change R or C by 10:1 and f changes 10:1, not
> its square root. But... my needs go into the many hundreds MHz, sorry,
> I have to stick to LC oscillators.

I remember what was known as a "seven league oscillator" which derived its name from the folklore of "seven league boots". The design was discussed in one of my old 1930's vintage vacuum tube books. If I remember correctly, one such oscillator covered from a few Hertz to several MHz. Unfortunately I am in SC and my library is back in Tennessee.

My memory may be wrong, but I think the book was "Functional Circuits and Oscillators" by Herbert Reich.

73, Dr. Barry L. Ornitz   WA4VZQ

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From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3139

Hi Mark,
I looked over the thread that your note kicked off.
Unusually, this was not very informative.
People were sticking with antenna measures, which weren't helping much
in this case.

I'll give it a try, introducing the missing concept: energy (and
power) DENSITY.

If you sit in the bright sun for 2 hours, you are likely to get a sunburn.

If you sit in a dark tent, with an opening for a magnifying glass of 2
inch diameter (= 5 cm), you will get a small burn within 2 minutes.

Looking now at the numbers, you know that the effective power density
of the Sun at the surface is 700 watts per square meter. Your skin
represents say 1.5 sq meters, so you are getting a total power of say 1
kilowatt.
So we are suggesting, at a particular place it takes 1 kilowatt of solar
power for 2 hours to burn you all over.

Now lets look at that dark tent with a hole for a magnifying glass:

the power density at the glass is pi times 1 times 1 inches or pi X .025 X 0.025 square meters = 0.002 sq meters.
The Solar power at the glass is 700w X 0.002 m^2 = 1.4 watts

How the hell can 1.4 watts burn us in 2 minutes, but 1000 watts cannot burn us in less than 2 hours?

Answer power density:
That 1.4 watts is focussed on a spot that is 1 mm diameter (40 / 1000 inch diameter) so its power density is
1.4 / pi X 0.001 X 0.001 watts per sq meter

...and THAT is 446 kilowatts /sq meter.

Oh look: the power density of the spot in the dark tent is about SIXTY times as great as plain sunlight, so waddaya know, it burns us 60 times as fast (but only over a LITTLE spot.)

And that's what this thread was all about - the effects of focussing energy over a particular area.

I hope this helps.

Brian W

MarkAren wrote:
> Hi All,
>
> Modern engineering text indicates that for the same frequency, a large fully illuminated dish will provide more gain than it�s smaller equivalent. Why is this ?
>
> Consider the following scenario:
>
> ======
>
> Take a 10GHz RF source, and attach an appropriate feed horn to fully illuminate a 2m dia dish.
>
> Adjust focus so that the wave front out of the dish is parallel (2m diameter ?)
>
> At a distance, arrange the same setup, except the RF source is replaced by a detector.
>
> Make a note of received signal strength.
>
> ======
>
> Repeat the same experiment at the same frequency, but with a 3mdiameter dish at each end, and appropriate feed horns .
>
> Make a note of received signal strength.

```
>
> ======
>
> Also, see http://www.idesignz.org/misc/dishproblem.pdf
>
> In both cases all of the TX energy is transmitted in a parallel beam,
> whose diameter is the same as the respective dish.
>
> It would seem that if you can fully convert all of the TX RF into
> parallel waves, at some point the diameter of the dishes should not
> make any difference to the transfer efficiency of the system.
>
> So, why would the received signal for the 3m + 3m dish be greater than
> that of the 2m + 2m dish experiment ?
>
> Thoughts please.
>
> Mark
>
> http://www.idesignz.org/AMPS/AMPS_BS.html � Experimental AMPS micro
> Base Station project
>
> http://www.idesignz.org/UAV/index.html � Early work on the four rotor
> FlyingThingy


From -5765400514673119570
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Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The dish problem
Date: Sat, 17 Oct 2009 08:58:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 121
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Xref: g2news2.google.com rec.radio.amateur.homebrew:3140
```

On Oct 16, 5:08=A0pm, brian whatcott <betw...@sbcglobal.net> wrote:
> Hi Mark,
> I looked over the thread that your note kicked off.
> Unusually, this was not very informative.
> People were sticking with antenna measures, which weren't helping much
> in this case.
>
> I'll give it a try, introducing the missing concept: =A0 energy (and
> power) DENSITY.
>
> If you sit in the bright sun for 2 hours, you are likely to get a sunburn=
.
>
> If you sit in a dark tent, with an opening for a magnifying glass of 2
> inch diameter (=3D 5 cm), you will get a small burn within 2 minutes.
>
> Looking now at the numbers, you =A0know that the effective power density
> of the Sun at the surface is 700 watts per square meter. Your skin
> represents say 1.5 sq meters, so you are getting a total power of say 1
> kilowatt.
> So we are suggesting, at a particular place it takes 1 kilowatt of solar
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>
> Now lets look at that dark tent with a hole for a magnifying glass:
> the power density at the glass is pi times 1 times 1 inches or pi X .025
> X 0.025 =A0square meters =3D 0.002 sq meters.
> The Solar power at the glass is 700w X =A00.002 m^2 =3D 1.4 watts
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>
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> That 1.4 watts is focused on a spot that is 1 mm diameter
> (40 / 1000 inch diameter) so its power density is
> =A0 1.4 =A0/ pi X 0.001 X 0.001 watts per sq meter
>
> ...and THAT is 446 kilowatts /sq meter.
>
> Oh look: the power density of the spot in the dark tent is about SIXTY
> times as great as plain sunlight, so whaddaya know, it burns us 60 times
> as fast (but only over a LITTLE spot.)
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> And that's what this thread was all about - the effects of focusing
> energy over a particular area.
>
> I hope this helps.
>
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>
>
>
> MarkAren wrote:

> > Hi All,
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> > equivalent. Why is this ?
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>
> > =3D=3D=3D=3D=3D=3D
>
> > Take a 10GHz RF source, and attach an appropriate feed horn to fully
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>
> > Adjust focus so that the wave front out of the dish is parallel (2m
> > diameter ?)
>
> > At a distance, arrange the same setup, except the RF source is
> > replaced by a detector.
>
> > Make a note of received signal strength.
>
> > =3D=3D=3D=3D=3D=3D
>
> > Repeat the same experiment at the same frequency, but with a
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>
> > Make a note of received signal strength.
>
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>
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>
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> > that of the 2m + 2m dish experiment ?
>
> > Thoughts please.
>
> > Mark
>
> >http://www.idesignz.org/AMPS/AMPS_BS.html=96 Experimental AMPS micro
> > Base Station project
>
> >http://www.idesignz.org/UAV/index.html=96 Early work on the four rotor
> > FlyingThingy- Hide quoted text -
>
> - Show quoted text -

A good read thank you.
A bit lengthy; but well done.
While illuminating the subject it does focus attention on the important point; the 'beaming' or directionalizing of the available energy, whether it be sunlight or any other frequency.
However there will always be some who 'can't' or 'won't' understand.
Witness some of the nonsense that is posted on various news groups all the time.
PS. That 700 watts per sq. metre is an interesting number? Bright sun at midday at the equator perhaps?
But I doubt that here at around 48 degrees north and with our climate we get anything close to that?
Also now wondering how efficient a solar panel is at converting that 700 watts into electric power (for say home use). Which may be why some 'solar' collectors are both photo-voltaic and heat collecting.

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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
     Trident/4.0; SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
     3.5.30729; .NET CLR 3.0.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3141
```

On Oct 6, 12:21=EF=BF=BDpm, Gaius <b...@127.0.0.1> wrote:
> AF6AY wrote:
> > In a box of traded parts I found a cylindrical object labeled
> > "Clevite Ceramic Filter =EF=BF=BDTL10D16A" that may be some sort
> > of IF filter according to very dusty old memory files. =EF=BF=BDI would
> > appreciate it if anyone knows of this brand and can give me
> > an approximate center frequency and, perhaps, impedance
> > loading of terminations.
>
> > Hermetically sealed about 1 1/2" long by 1/4" diameter, leads
> > coming out ends of metal case. =EF=BF=BDUnused by appearance of
> > end wires. =EF=BF=BDPerhaps 30 to 40 years old? =EF=BF=BDTrader had no =
idea
> > where he got it (probably in a trade of his).
>
> > Clevite is an old company and was purchased by Gould
> > Electronics some time in the late 1960s. =EF=BF=BDCan't find anything
> > on this part in web search now.
>
> > My thanks for reading. =EF=BF=BDIf anyone has any info, feel free to
> > post it privately or publicly.
>
> > 73, Len =EF=BF=BDAF6AY
>
> I've got one which looks identical, but with a different part number
> (TL6D11:A). Mine is a 455KHz centre frequency, 6KHz filter which was
> used as the AM filter in the UK/PRC-316 radio. From the circuit, I'd say
> it should terminate in 1K ohms.
>
> Clevite was a UK company, based in Southampton, and part of the Brush
> Electrical group. They specialised in ceramic filters - and seem to have
> been one of the first commercial suppliers of these. I've got other
> equipment which uses Clevite filters, and I can assure you these are not
> =EF=BF=BD cheap alternatives to crystal filters - they are high grade com=
ponents
> in their own right.
>
> I'll bet your item is on one of the standard IF frequencies - try
> 100KHz, 455KHz, 1.4MHz, 5MHz etc.- Hide quoted text -

Thanks to a kind person who supplied me with Clevite catalog data
plus some other Clevite literature, I correctly identified my
Clevite TL-10D16A filter. It has a 455 KHz center-frequency,
-6 db bandwidth of 10 KHz, -60 db BW of 16 KHz. 1500 Ohms input
and output impedance. Insertion loss about 7 db. Data from
Clevite Bulletin 94012 dated Octover 1961. Bench testing shows
a fairly flat passband and very steep skirt attenuation. In a
couple of weeks I might have access to better instrumentation to
quantify its response characteristics.

Clevite was located at 232 Forbes Road, Bedford, Ohio, known in
Clevite Electronic Components, a division of Clevite Corporation,
Cleveland, Ohio. By 1969 they were at the same address and

known as "Gould Piezoelectric Division" with a zip code of 44146. Piezoelectic devices had been in production since 1959. Whether it was later acquired by a UK firm is unknown on what I have.

One of the interesting bits of information was a data sheet on Clevite "Identical Resonators" which contains 10 tables of ladder filter arrangements from 2 to 8 resonators as bandpass filters using only capacitors as coupling elements. That might be applicable to quartz crystal resonators.

73, Len AF6AY

From 8710590124744045770
X-Google-Thread: 241b302a50,ecbe89f7b7030a95,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Site for DIY 2.4Ghz impedance equipment help
Date: Sun, 18 Oct 2009 13:41:23 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3598
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Message-ID: <491f3$4adb614e$18ec6dd7$30459@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 13
X-Trace: 491f34adb614ebd49c87230459
Xref: g2news2.google.com rec.radio.amateur.antenna:15103 rec.radio.amateur.homebrew:3143

Hi all,
I saw a site where a fellow designed a unit to measure impedance at 2.4 ghz, for use on wifi antennas. I don't recall if it was return loss or impedance.
It gave detailed instructions on how to build and he also had ready built units
for sale.
I think it was a ham that designed the unit. I also think he was not in the states, possibly a P or PY call sign, but the memory is not good!
Any help would be appreciated.
Thanks, Mike

```
From -6926003397237104860
X-Google-Thread: 241b302a50,ecbe89f7b7030a95
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
xlned.com!feeder3.xlned.com!feeder.news-service.com!cyclone01.ams2.highwinds-
media.com!news.highwinds-media.com!npeersf01.ams.highwinds-media.com!
newsfe18.ams2.POSTED!7564ea0f!not-for-mail
Message-ID: <KeX$LfD5i32KFwSR@b-howie.demon.co.uk>
From: Brian Howie <brian@nospam.demon.co.uk>
Reply-To: Brian Howie <brian@b-howie.demon.co.uk>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Site for DIY 2.4Ghz impedance equipment help
References: <491f3$4adb614e$18ec6dd7$30459@KNOLOGY.NET>
Lines: 21
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.07-S (<e4b4jcf$$LYle3x69BFPn$8Vsu>)
NNTP-Posting-Host: 80.177.221.69
X-Complaints-To: abuse@demon.net
X-Trace: newsfe18.ams2 1255897410 80.177.221.69 (Sun, 18 Oct 2009 20:23:30 UTC)
NNTP-Posting-Date: Sun, 18 Oct 2009 20:23:30 UTC
Date: Sun, 18 Oct 2009 21:21:13 +0100
Xref: g2news2.google.com rec.radio.amateur.antenna:15104
rec.radio.amateur.homebrew:3144

In message <491f3$4adb614e$18ec6dd7$30459@KNOLOGY.NET>, amdx
<amdx@knology.net> writes
>Hi all,
> I saw a site where a fellow designed a unit to measure impedance at 2.4
>ghz, for use on wifi antennas. I don't recall if it was return loss or
>impedance.
>It gave detailed instructions on how to build and he also had ready built
>units
>for sale.
>I think it was a ham that designed the unit. I  also think he was not in the
>states, possibly a P or PY call sign, but the memory is not good!
> Any help would be appreciated.
>                Thanks, Mike
>
This it ?

http://www.frars.org.uk/cgi-bin/render.pl?pageid=1085

73 Brian GM4DIJ
--
Brian Howie


From -3909294673188943594
X-Google-Thread: 241b302a50,ecbe89f7b7030a95
```

X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bt.com!news.bt.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 18 Oct 2009 15:34:34 -0500
From: "christofire" <christofire@btinternet.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <491f3$4adb614e$18ec6dd7$30459@KNOLOGY.NET> <KeX$LfD5i32KFwSR@b-howie.demon.co.uk>
Subject: Re: Site for DIY 2.4Ghz impedance equipment help
Date: Sun, 18 Oct 2009 21:34:24 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <8u2dnfZiA89G5kbXnZ2dnUVZ8oCdnZ2d@bt.com>
Lines: 32
X-Usenet-Provider: http://www.giganews.com
X-AuthenticatedUsername: NoAuthUser
X-Trace: sv3-RrFhkKF/
2ff9jjKmN7VRaYTO92KPLbjjPS952kkqGq34SN8CMz9x9xPXWV+IolKRdqi49nQvOAIpcdv!
F4lSCIE+FZXq/o1KUSzPOmnUWbPt0T683ydoEhK1iSHUHS3FgC2uJiLRPhQUuQx7i+e8Y7is7w==
X-Complaints-To: abuse@btinternet.com
X-DMCA-Complaints-To: abuse@btinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.antenna:15105
rec.radio.amateur.homebrew:3145

"Brian Howie" <brian@nospam.demon.co.uk> wrote in message
news:KeX$LfD5i32KFwSR@b-howie.demon.co.uk...
> In message <491f3$4adb614e$18ec6dd7$30459@KNOLOGY.NET>, amdx
> <amdx@knology.net> writes
>>Hi all,
>> I saw a site where a fellow designed a unit to measure impedance at 2.4
>>ghz, for use on wifi antennas. I don't recall if it was return loss or
>>impedance.
>>It gave detailed instructions on how to build and he also had ready built
>>units
>>for sale.
>>I think it was a ham that designed the unit. I also think he was not in
>>the
>>states, possibly a P or PY call sign, but the memory is not good!
>> Any help would be appreciated.
>>   Thanks, Mike
>>
> This it ?

>
> http://www.frars.org.uk/cgi-bin/render.pl?pageid=1085
>
> 73 Brian GM4DIJ
> --
> Brian Howie

A piece of Sage Wireline and a PCB to terminate it would be easier.

Chris

From 1289194518759618335
X-Google-Thread: 241b302a50,ecbe89f7b7030a95
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 18 Oct 2009 19:14:52 -0500
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Site for DIY 2.4Ghz impedance equipment help
Date: Sun, 18 Oct 2009 17:14:52 -0700
Message-ID: <upbnd5tethul84llpcsdql49oi84fdanrh@4ax.com>
References: <491f3$4adb614e$18ec6dd7$30459@KNOLOGY.NET>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 45
X-Trace: sv3-yVemi/Qrso6rnaN8AJs2k3uF1527/
yHfhQRPO+HldnAaR6PQY3xdm+lDoa5Tduc+gKCfHe49SG9Th8J!
Nt0sjzmQFemLXG1wDRWCEkg88gGRBIJX1M8pgJNtb7k7r4+r+Q4/kymqNH0CAp0KBmA6l/BeH+e6!
V8On7A==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.antenna:15106
rec.radio.amateur.homebrew:3146

On Sun, 18 Oct 2009 13:41:23 -0500, "amdx" <amdx@knology.net> wrote:

>Hi all,
> I saw a site where a fellow designed a unit to measure impedance at 2.4
>ghz, for use on wifi antennas. I don't recall if it was return loss or

>impedance.
>It gave detailed instructions on how to build and he also had ready built
>units
>for sale.
>I think it was a ham that designed the unit. I also think he was not in the
>states, possibly a P or PY call sign, but the memory is not good!
> Any help would be appreciated.
>   Thanks, Mike

This is a copy of my reply to your duplicate posting to
alt.internet.wireless. Please don't do that again:

This one?
<http://pe2er.nl/wifiswr/index.htm>
or one of these:
<http://www.qsl.net/n9zia/wireless/appendixF.html>

What I do is use a return loss bridge as in:
<http://www.qsl.net/n9zia/wireless/pics/rtrn_loss_bridge.png>
I've built several out of chip resistors and junk parts. I have one
that works well up to about 8GHz. Great for testing antennas. That's
what's inside a Telonic Rho-tector (which can usually be found on eBay
for cheap). A few models go up to 2.4Ghz.

You'll also *might* need a microwave load or three. 50 ohms for a
reference, but also some other known values for calibration.

The problem is that you'll need an RF sweep generator to use this
effectively. It's also not a VNA (vector network analyzer) so it
won't tell you if any reactance is capacitive or inductive.

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From 1006401101057796194
X-Google-Thread: 241b302a50,ecbe89f7b7030a95
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <491f3$4adb614e$18ec6dd7$30459@KNOLOGY.NET>

<upbnd5tethul84llpcsdql49oi84fdanrh@4ax.com>
Subject: Re: Site for DIY 2.4Ghz impedance equipment help
Date: Sun, 18 Oct 2009 19:34:54 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3598
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Message-ID: <421e$4adbb429$18ec6dd7$28138@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 53
X-Trace: 0421e4adbb429bd49c87228138
Xref: g2news2.google.com rec.radio.amateur.antenna:15107
rec.radio.amateur.homebrew:3147

"Jeff Liebermann" <jeffl@cruzio.com> wrote in message
news:upbnd5tethul84llpcsdql49oi84fdanrh@4ax.com...
> On Sun, 18 Oct 2009 13:41:23 -0500, "amdx" <amdx@knology.net> wrote:
>
>>Hi all,
>> I saw a site where a fellow designed a unit to measure impedance at 2.4
>>ghz, for use on wifi antennas. I don't recall if it was return loss or
>>impedance.
>>It gave detailed instructions on how to build and he also had ready built
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>>I think it was a ham that designed the unit. I also think he was not in
>>the
>>states, possibly a P or PY call sign, but the memory is not good!
>> Any help would be appreciated.
>>   Thanks, Mike
>
>
> This is a copy of my reply to your duplicate posting to
> alt.internet.wireless. Please don't do that again:
>

Sorry, I thought about putting it on these other groups just as I hit send.

> This one?
> <http://pe2er.nl/wifiswr/index.htm>
> or one of these:
> <http://www.qsl.net/n9zia/wireless/appendixF.html>
>
> What I do is use a return loss bridge as in:
> <http://www.qsl.net/n9zia/wireless/pics/rtrn_loss_bridge.png>
> I've built several out of chip resistors and junk parts. I have one
> that works well up to about 8GHz. Great for testing antennas. That's
> what's inside a Telonic Rho-tector (which can usually be found on eBay
> for cheap). A few models go up to 2.4Ghz.

```
>
> You'll also *might* need a microwave load or three.  50 ohms for a
> reference, but also some other known values for calibration.
>
> The problem is that you'll need an RF sweep generator to use this
> effectively.  It's also not a VNA (vector network analyzer) so it
> won't tell you if any reactance is capacitive or inductive.
>
>
> --
> Jeff Liebermann     jeffl@cruzio.com
> 150 Felker St #D    http://www.LearnByDestroying.com
> Santa Cruz CA 95060 http://802.11junk.com
> Skype: JeffLiebermann     AE6KS    831-336-2558




From -4838002414934762594
X-Google-Thread: 241b302a50,ecbe89f7b7030a95
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <491f3$4adb614e$18ec6dd7$30459@KNOLOGY.NET> <KeX$LfD5i32KFwSR@b-
howie.demon.co.uk>
Subject: Re: Site for DIY 2.4Ghz impedance equipment help
Date: Sun, 18 Oct 2009 19:37:06 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3598
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Response
Message-ID: <5a2c7$4adbb4ac$18ec6dd7$28328@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 33
X-Trace: 5a2c74adbb4acbd49c87228328
Xref: g2news2.google.com rec.radio.amateur.antenna:15108
rec.radio.amateur.homebrew:3148


"Brian Howie" <brian@nospam.demon.co.uk> wrote in message
news:KeX$LfD5i32KFwSR@b-howie.demon.co.uk...
> In message <491f3$4adb614e$18ec6dd7$30459@KNOLOGY.NET>, amdx
> <amdx@knology.net> writes
>>Hi all,
>> I saw a site where a fellow designed a unit to measure impedance at 2.4
>>ghz, for use on wifi antennas. I don't recall if it was return loss or
```

```
>>impedance.
>>It gave detailed instructions on how to build and he also had ready built
>>units
>>for sale.
>>I think it was a ham that designed the unit. I  also think he was not in
>>the
>>states, possibly a P or PY call sign, but the memory is not good!
>> Any help would be appreciated.
>>                Thanks, Mike
>>
> This it ?
>
> http://www.frars.org.uk/cgi-bin/render.pl?pageid=1085
>
> 73 Brian GM4DIJ
> --
> Brian Howie

Thanks for the site Brian, that is not the one I was thinking though.

  Jeff found the one I wanted,
<http://pe2er.nl/wifiswr/index.htm>
     Mike
```

```
From 7692837391400484337
X-Google-Thread: 241b302a50,930644b6428e7d5e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 18 Oct 2009 19:41:16 -0500
Date: Sun, 18 Oct 2009 19:40:02 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The dish problem
References: <4ec1b3b7-b4e6-4e4d-89aa-d019de5b2447@q40g2000prh.googlegroups.com>
     <iZednXNwx9t-WUXXnZ2dnUVZ_rWdnZ2d@giganews.com> <fd962fd1-b840-4a57-
b8c1-32adcf4e9a66@o10g2000yqa.googlegroups.com>
In-Reply-To: <fd962fd1-b840-4a57-b8c1-32adcf4e9a66@o10g2000yqa.googlegroups.com>
Content-Type: text/plain; charset=windows-1252; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <MomdnYZ08YgwKEbXnZ2dnUVZ_qGdnZ2d@giganews.com>
Lines: 33
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-8cTGYJo6ZdP7PmcB21OqrVFp+/
```

ZOCM+BoIeMiKJm0ynexsFBKdCzhHlHT2MyOmpHFOpcYpjjqLrXz+a!
4S9NsDGy6n5fm8HKzw5LCG5QiDVD2c4jF+ATbd/HtyyXjblQzago7RuVzaUkcX9y9z/6AjDHCKw=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3149

terry wrote:
...
>> Looking now at the numbers, you know that the effective power density
>> of the Sun at the surface is 700 watts per square meter. Your skin
>> represents say 1.5 sq meters, so you are getting a total power of say 1
>> kilowatt.

....
  That 700 watts per sq. metre is an interesting number? Bright sun
> at midday at the equator perhaps?
> But I doubt that here at around 48 degrees north and with our climate
> we get anything close to that?
> Also now wondering how efficient a solar panel is at converting that
> 700 watts into electric power (for say home use). Which may be why
> some 'solar' collectors are both photo-voltaic and heat collecting.

The scientific name for this measure is Solar Irradiance. If you hold up
a square frame 1 meter on a side, perpendicular to the Sun's direction,
in space near Earth's orbital distance, about 1400 watts passes the
frame - and twice as far from the Sun, that frame only frames a quarter
of that amount (of course!)

That number 700 W/m^2 takes into account the absorption of power by
stuff in the atmosphere, more at slant angles of course.

This URL can show the kind of Solar power you can expect at various
geographical coordinates.
http://re.jrc.ec.europa.eu/pvgis/apps/radday.php

You'll see a peak value around noon - and this can be more than 700
W/m^2 at that 48N latitude.

Brian W

From -8828181871929308529
X-Google-Thread: 241b302a50,ecbe89f7b7030a95
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!feeder.erje.net!newsfeed.utanet.at!newsfeed.aon.at!newsreader04.highway.telekom.at!not-for-mail

From: Helmut Wabnig <hwabnig@ .- --- -. dotat>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Site for DIY 2.4Ghz impedance equipment help
Date: Mon, 19 Oct 2009 09:22:17 +0200
Message-ID: <3r4od5lktaq1v7jnf8ni4vthfmbg9a3p5f@4ax.com>
References: <491f3$4adb614e$18ec6dd7$30459@KNOLOGY.NET>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 21
NNTP-Posting-Host: 91-114-224-51.adsl.highway.telekom.at
X-Trace: 1255936940 newsreader04.highway.telekom.at 1552 91.114.224.51:12522
Xref: g2news2.google.com rec.radio.amateur.antenna:15109
rec.radio.amateur.homebrew:3150

On Sun, 18 Oct 2009 13:41:23 -0500, "amdx" <amdx@knology.net> wrote:

>Hi all,
> I saw a site where a fellow designed a unit to measure impedance at 2.4
>ghz, for use on wifi antennas. I don't recall if it was return loss or
>impedance.
>It gave detailed instructions on how to build and he also had ready built
>units
>for sale.
>I think it was a ham that designed the unit. I also think he was not in the
>states, possibly a P or PY call sign, but the memory is not good!
> Any help would be appreciated.
>   Thanks, Mike
>

For the price of 1 tranceiver

http://www.youtube.com/watch?v=N0w5U0Xj1MU

w.

From -2585675793867897179
X-Google-Thread: 241b302a50,ecbe89f7b7030a95
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 Oct 2009 03:05:32 -0500
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Site for DIY 2.4Ghz impedance equipment help
Date: Mon, 19 Oct 2009 01:05:32 -0700

Message-ID: <d37od555a9tl1vkefha0gcesc0u5npne0j@4ax.com>
References: <491f3$4adb614e$18ec6dd7$30459@KNOLOGY.NET>
<3r4od5lktaq1v7jnf8ni4vthfmbg9a3p5f@4ax.com>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 15
X-Trace: sv3-XaptA9eGf14/poouvMMcYDKYtfrsPdl/
dHaHwbv7fdWucyk1T0+iTGii1AuSzjXeRSCDyFwjQXrv4Wr!
XfkUgczQcPe9VOHpKyWvNoK3565hIHpvIX1tJFOvGhumVH3pL/TjmoFIhGUa5hTgUE4p8K6DjCEQ!
bhNyJA==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.antenna:15110
rec.radio.amateur.homebrew:3151

On Mon, 19 Oct 2009 09:22:17 +0200, Helmut Wabnig <hwabnig@ .- --- -. dotat> wrote:

>For the price of 1 tranceiver
>http://www.youtube.com/watch?v=N0w5U0Xj1MU

Clever but I think the OP wanted test equipment, not tuning methods.
Also, I noticed that the markers were set to 2400.500 and 2900.500MHz
instead of US band limits of 2400.0 and 2483.5Mhz.

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From -4012891367036241695
X-Google-Thread: 241b302a50,ecbe89f7b7030a95
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <491f3$4adb614e$18ec6dd7$30459@KNOLOGY.NET>
<3r4od5lktaq1v7jnf8ni4vthfmbg9a3p5f@4ax.com>
<d37od555a9tl1vkefha0gcesc0u5npne0j@4ax.com>
Subject: Re: Site for DIY 2.4Ghz impedance equipment help
Date: Mon, 19 Oct 2009 06:34:06 -0500

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X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3598
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Message-ID: <a136a$4adc4ea8$18ec6dd7$22389@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 24
X-Trace: a136a4adc4ea8bd49c87222389
Xref: g2news2.google.com rec.radio.amateur.antenna:15111
rec.radio.amateur.homebrew:3152


"Jeff Liebermann" <jeffl@cruzio.com> wrote in message
news:d37od555a9tl1vkefha0gcesc0u5npne0j@4ax.com...
> On Mon, 19 Oct 2009 09:22:17 +0200, Helmut Wabnig <hwabnig@ .- --- -.
> dotat> wrote:
>
>>For the price of 1 tranceiver
>>http://www.youtube.com/watch?v=N0w5U0Xj1MU
>
> Clever but I think the OP wanted test equipment, not tuning methods.
> Also, I noticed that the markers were set to 2400.500 and 2900.500MHz
> instead of US band limits of 2400.0 and 2483.5Mhz.
>
> --
> Jeff Liebermann     jeffl@cruzio.com
> 150 Felker St #D    http://www.LearnByDestroying.com
> Santa Cruz CA 95060 http://802.11junk.com
> Skype: JeffLiebermann     AE6KS    831-336-2558

  So did the (plexiglas?) change the velocity factor for tuning.
Ya, I'll take his test equipment.
                   Mike




From 8871403570136638682
X-Google-Thread: 241b302a50,ecbe89f7b7030a95
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 Oct 2009 09:39:09 -0500
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Site for DIY 2.4Ghz impedance equipment help
Date: Mon, 19 Oct 2009 07:39:08 -0700
Message-ID: <5ptod5l4t98pf0km70c0j1crc566jqe2mn@4ax.com>
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References: <491f3$4adb614e$18ec6dd7$30459@KNOLOGY.NET>
<3r4od5lktaq1v7jnf8ni4vthfmbg9a3p5f@4ax.com>
<d37od555a9tl1vkefha0gcesc0u5npne0j@4ax.com>
<a136a$4adc4ea8$18ec6dd7$22389@KNOLOGY.NET>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 29
X-Trace: sv3-7pb592R1+W3rJF0tx215SwgJf/
psWsnkxvyD6quhbSLx4sts1mauw7v12XzyV6cLkRGTJE3oFU0ubYE!
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yhc8KQ==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.antenna:15112
rec.radio.amateur.homebrew:3153

On Mon, 19 Oct 2009 06:34:06 -0500, "amdx" <amdx@knology.net> wrote:

>>>For the price of 1 tranceiver
>>>http://www.youtube.com/watch?v=N0w5U0Xj1MU

>So did the (plexiglas?) change the velocity factor for tuning.

The plastic raised the dielectric constant of the space between the patch and the ground plane. In effect, it increased the effective wavelength of the patch slightly, thus lowering its tuned frequency. You can (accidentally) get the same effect by tuning the antenna, and then placing it inside a PVC radome, which will also slower its tuning frequency. The author will probably find himself re-tuning the plastic piece after he's installed the patch antenna in an enclosure.

>Ya, I'll take his test equipment.
>   Mike

Build your own test equipment first. When that fails, mortgage the house, wife, kids, car, dog, cat, toys, etc and buy something better. However, beware of test equipment envy. Once you get on the test equipment upgrade path, nothing you own will be good enough, and there always will be something better.

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

```
From -3678026967538004510
X-Google-Thread: 241b302a50,ecbe89f7b7030a95
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 Oct 2009 12:28:32 -0500
Date: Mon, 19 Oct 2009 12:27:53 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Site for DIY 2.4Ghz impedance equipment help
References: <491f3$4adb614e$18ec6dd7$30459@KNOLOGY.NET> <KeX$LfD5i32KFwSR@b-
howie.demon.co.uk>
In-Reply-To: <KeX$LfD5i32KFwSR@b-howie.demon.co.uk>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <nJednaQfGPVdPEHXnZ2dnUVZ_uidnZ2d@giganews.com>
Lines: 29
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-ieHN7WpBOlFUotAoHGyk/
twuVlYB+yZwZdcfRvf5LDe13OWrl6HMnUKNOMHrRyGYy+Ry5YiDzEdcx0/!
GFZcUp0ji0Gfs91BPaJyqR+PoQmDA4N1rrS5Pcvl5tm9x5QHsTFkPZqT6S9wroGBrEVb2aeWBG4=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.antenna:15115
rec.radio.amateur.homebrew:3154

Brian Howie wrote:
> In message <491f3$4adb614e$18ec6dd7$30459@KNOLOGY.NET>, amdx
> <amdx@knology.net> writes
>> Hi all,
>> I saw a site where a fellow designed a unit to measure impedance at 2.4
>> ghz, for use on wifi antennas. I don't recall if it was return loss or
>> impedance.
>> It gave detailed instructions on how to build and he also had ready built
>> units
>> for sale.
>> I think it was a ham that designed the unit. I  also think he was not
>> in the
>> states, possibly a P or PY call sign, but the memory is not good!
>> Any help would be appreciated.
>>               Thanks, Mike
>>
> This it ?
```

>
> http://www.frars.org.uk/cgi-bin/render.pl?pageid=1085
>
> 73 Brian GM4DIJ

This was a cool hamradio site, to my mind. I enjoyed the puzzle about
the unbalanced bridge current.   A clear simple description of Thevenin
versus Kirchoff.

Thanks

Brian W

From -7534142405513182357
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!g3g2000vbr.googlegroups.com!not-for-mail
From: ezio <iz4hyz@libero.it>
Newsgroups: rec.radio.amateur.homebrew
Subject: marketplace radioamateur.it
Date: Mon, 19 Oct 2009 11:28:06 -0700 (PDT)
Organization: http://groups.google.com
Lines: 1
Message-ID: <f27a9943-a625-4119-8c09-8c0e4f2e5650@g3g2000vbr.googlegroups.com>
NNTP-Posting-Host: 151.51.33.68
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1255976886 6571 127.0.0.1 (19 Oct 2009 18:28:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Oct 2009 18:28:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g3g2000vbr.googlegroups.com; posting-host=151.51.33.68;
     posting-account=ZnviZwoAAADM7ATWSIcKtAEfxkfZE1Vr
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3155

maketplace radioamateur http://www.radioamateur.it

From 2938426683596450905
X-Google-Thread: 241b302a50,930644b6428e7d5e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!33g2000vbe.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The dish problem
Date: Tue, 20 Oct 2009 16:17:07 -0700 (PDT)

Organization: http://groups.google.com
Lines: 59
Message-ID: <f686f932-8f11-44bd-b8aa-aebfaf5c67f6@33g2000vbe.googlegroups.com>
References: <4ec1b3b7-b4e6-4e4d-89aa-d019de5b2447@q40g2000prh.googlegroups.com>
     <iZednXNwx9t-WUXXnZ2dnUVZ_rWdnZ2d@giganews.com> <fd962fd1-b840-4a57-b8c1-32adcf4e9a66@o10g2000yqa.googlegroups.com>
     <MomdnYZ08YgwKEbXnZ2dnUVZ_qGdnZ2d@giganews.com>
NNTP-Posting-Host: 76.226.226.33
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1256080627 21333 127.0.0.1 (20 Oct 2009 23:17:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 20 Oct 2009 23:17:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 33g2000vbe.googlegroups.com; posting-host=76.226.226.33;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win 9x 4.90; en-US; rv:1.8.1.21)
     Gecko/20090331 K-Meleon/1.5.3,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3156

Hey OM

If I look at the node of a source of 20mW and connect 10 wires to that node with equal loads, I will have 2mW going down each wire. No matter how I try and add them up I can't get more than 20 mW.

Now I take a 20 mW isotropic emitter, now your'e saying I feed a dish with that 20mW emitter through a feed horn and now all of a sudden I have gain, I have more than 20 mW? Because the dish and feed horn are able to add the particles and waves, where as with 10 wires I cannot add the waves and particles?

The only difference in both these are the shape of the dish and the medium used to convey the wave, particles.
And you can add the waves particles until you run out of dish.

73 OM
de n8zu

On Oct 18, 8:40 pm, brian whatcott <betw...@sbcglobal.net> wrote:
> terry wrote:
>
> ...
>
> >> Looking now at the numbers, you know that the effective power density
> >> of the Sun at the surface is 700 watts per square meter. Your skin
> >> represents say 1.5 sq meters, so you are getting a total power of say 1
> >> kilowatt.
>

> ....
>   That 700 watts per sq. metre is an interesting number? Bright sun
>
> > at midday at the equator perhaps?
> > But I doubt that here at around 48 degrees north and with our climate
> > we get anything close to that?
> > Also now wondering how efficient a solar panel is at converting that
> > 700 watts into electric power (for say home use). Which may be why
> > some 'solar' collectors are both photo-voltaic and heat collecting.
>
> The scientific name for this measure is Solar Irradiance. If you hold up
> a square frame 1 meter on a side, perpendicular to the Sun's direction,
> in space near Earth's orbital distance, about 1400 watts passes the
> frame - and twice as far from the Sun, that frame only frames a quarter
> of that amount (of course!)
>
> That number 700 W/m^2 takes into account the absorption of power by
> stuff in the atmosphere, more at slant angles of course.
>
> This URL can show the kind of Solar power you can expect at various
> geographical coordinates.http://re.jrc.ec.europa.eu/pvgis/apps/radday.php
>
> You'll see a peak value around noon - and this can be more than 700
> W/m^2 at that 48N latitude.
>
> Brian W

```
From -8465897837842383510
X-Google-Thread: 241b302a50,930644b6428e7d5e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news5
From: Bill M <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The dish problem
Date: Tue, 20 Oct 2009 18:33:51 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 34
Message-ID: <hblkti0jhs@news5.newsguy.com>
References: <4ec1b3b7-b4e6-4e4d-89aa-d019de5b2447@q40g2000prh.googlegroups.com>
     <iZednXNwx9t-WUXXnZ2dnUVZ_rWdnZ2d@giganews.com> <fd962fd1-b840-4a57-
b8c1-32adcf4e9a66@o10g2000yqa.googlegroups.com>
<MomdnYZ08YgwKEbXnZ2dnUVZ_qGdnZ2d@giganews.com> <f686f932-8f11-44bd-b8aa-
aebfaf5c67f6@33g2000vbe.googlegroups.com>
NNTP-Posting-Host: p274a3f28f8d3ab2ea54402557a823f841dfb840d310bb506.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
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User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
In-Reply-To: <f686f932-8f11-44bd-b8aa-aebfaf5c67f6@33g2000vbe.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3157

raypsi wrote:
> Hey OM
>
> If I look at the node of a source of 20mW and connect 10 wires to that
> node with equal loads, I will have 2mW going down each wire. No matter
> how I try and add them up I can't get more than 20 mW.
>
> Now I take a 20 mW isotropic emitter, now your'e saying I feed a dish
> with that 20mW emitter through a feed horn and now all of a sudden I
> have gain, I have more than 20 mW? Because the dish and feed horn are
> able to add the particles and waves, where as with 10 wires I cannot
> add the waves and particles?
>
> The only difference in both these are the shape of the dish and the
> medium used to convey the wave, particles.
> And you can add the waves particles until you run out of dish.
>
>
> 73 OM
> de n8zu
>

Actually your example tends to prove the point that you're questioning.
  10 points of 2mw DO add up to 20 mw.

The difference with an isotropic radiator is that there are an infinite
number of points each at say 20mw.  Add 'em up by focusing those points
into a single path.

If you can rationalize a 20mw transmitter feeding one direction down a
feedline or waveguide and still getting 20mw EIRP in ALL directions with
an isotropic radiator then it should make sense.

-Bill


From -1762026100576058589
X-Google-Thread: 241b302a50,930644b6428e7d5e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 20 Oct 2009 19:40:15 -0500
Date: Tue, 20 Oct 2009 19:39:41 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
```

```
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The dish problem
References: <4ec1b3b7-b4e6-4e4d-89aa-d019de5b2447@q40g2000prh.googlegroups.com>
     <iZednXNwx9t-WUXXnZ2dnUVZ_rWdnZ2d@giganews.com> <fd962fd1-b840-4a57-
b8c1-32adcf4e9a66@o10g2000yqa.googlegroups.com>
<MomdnYZ08YgwKEbXnZ2dnUVZ_qGdnZ2d@giganews.com> <f686f932-8f11-44bd-b8aa-
aebfaf5c67f6@33g2000vbe.googlegroups.com>
In-Reply-To: <f686f932-8f11-44bd-b8aa-aebfaf5c67f6@33g2000vbe.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <C4mdnbW1CMzyxUPXnZ2dnUVZ_rednZ2d@giganews.com>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-iELM2Cb8MZfcunpdpthnhJgYAG6+5UVU3E/5SCTsscAZguBXFnlSjbR/+O5V8lW/
VpJS36y1Sm9mpmx!XFbV1xPw9EA/
ttxciFZbzYSge7fz6bAbuOiHeeIVkLbUgFQwuegVSborJgLd0977fMnNM/jdsFY=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3158
```

raypsi wrote:

> Hey OM
>
> If I look at the node of a source of 20mW and connect 10 wires to that
> node with equal loads, I will have 2mW going down each wire. No matter
> how I try and add them up I can't get more than 20 mW.

Correct.

> Now I take a 20 mW isotropic emitter, now you're saying I feed a dish
> with that 20mW emitter through a feed horn and now all of a sudden I
> have gain, I have more than 20 mW?

Not exactly, I am saying you have a gain in power DENSITY
i.e watts per sq meter.   In a desired direction only, naturally.

Like when you use a magnifying glass to collect the Sun's power into a
small spot.

> 73 OM
> de n8zu

```
From 6431653451386178622
X-Google-Thread: 4baf9708d4,6d9977a010bb6971,start
X-Google-Attributes: gid4baf9708d4,public,usenet
X-Google-NewGroupId: yes
```

```
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!z34g2000vbl.googlegroups.com!not-for-
mail
From: "dave.harper" <dave.harper@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Modeling an FM transmitter with LTspice?
Date: Wed, 21 Oct 2009 07:31:36 -0700 (PDT)
Organization: http://groups.google.com
Lines: 154
Message-ID: <452cfa58-f0c3-4544-a8eb-cea0507a1ad9@z34g2000vbl.googlegroups.com>
NNTP-Posting-Host: 128.158.1.166
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1256135496 27519 127.0.0.1 (21 Oct 2009 14:31:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 21 Oct 2009 14:31:36 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z34g2000vbl.googlegroups.com; posting-host=128.158.1.166;
     posting-account=rHEQaggAAAAFTscVchKefpnjROFHTWH8
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.11)
     Gecko/2009060215 Firefox/3.0.11,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3160
rec.radio.amateur.antenna:15127
```

I'm trying to model an FM transmitter with LTspice. The schematic of the circuit I'm trying to model is shown here:

http://www.sentex.ca/~mec1995/circ/fmt1.htm

It takes a while to start oscillating, but when it does reach a steady oscillation, the lower half of the waveforms look a little distorted. Interestingly, when I reduce the inductor value (to say .01uH), the waveforms are less distorted, but when I only decrease the capacitor (to say 3pF), the waveforms become more distorted. Any insight into the source of this distortion?

Could it be that I need to model an equivalent antenna?

I've copied the LTspice .asc file below.

Thanks in advance!
Dave

```
---------------------------------
Version 4
SHEET 1 928 680
WIRE 160 -144 48 -144
WIRE 272 -144 272 -176
WIRE 272 -144 160 -144
WIRE 416 -144 272 -144
WIRE 528 -144 416 -144
WIRE 624 -144 528 -144
WIRE 704 -144 624 -144
WIRE 416 -128 416 -144
WIRE 704 -128 704 -144
WIRE 528 -112 528 -144
WIRE 624 -112 624 -144
WIRE 48 -96 48 -144
WIRE 160 -96 160 -144
WIRE 272 -96 272 -144
WIRE -384 -80 -384 -128
WIRE -336 -80 -384 -80
WIRE -224 -80 -256 -80
WIRE -144 -80 -144 -128
WIRE -144 -80 -224 -80
WIRE -144 -48 -144 -80
WIRE 416 -48 368 -48
WIRE 528 -48 416 -48
WIRE -384 -32 -384 -80
WIRE -224 -32 -224 -80
WIRE 336 -16 272 -16
WIRE 144 0 96 0
WIRE 624 0 624 -48
WIRE 704 0 704 -48
WIRE 704 0 624 0
WIRE 336 16 336 -16
WIRE 368 16 336 16
WIRE 144 32 144 0
WIRE 160 32 160 -16
WIRE 160 32 144 32
WIRE 208 32 160 32
WIRE 416 48 416 -48
WIRE 560 48 416 48
WIRE 48 64 48 -16
WIRE 96 64 48 64
WIRE -384 80 -384 48
WIRE -224 80 -224 48
WIRE -144 80 -144 16
WIRE 160 96 160 32
WIRE 272 96 272 80
WIRE 704 96 704 64
WIRE 704 96 624 96
WIRE 48 176 48 144
WIRE 160 176 48 176
WIRE 272 176 160 176
WIRE 416 176 272 176
WIRE 512 176 416 176
WIRE 624 176 624 96
WIRE 624 176 592 176
WIRE 416 192 416 176
FLAG -384 80 0
FLAG -384 -128 +9V
FLAG -144 80 0
FLAG -224 80 0
FLAG -144 -128 +4.5V
FLAG 272 -176 +9V
FLAG 416 192 0
SYMBOL voltage -384 -48 R0
WINDOW 123 0 0 Left 0
WINDOW 39 0 0 Left 0
WINDOW 0 -66 54 Left 0
WINDOW 3 47 51 Left 0
SYMATTR InstName V1
SYMATTR Value 9
SYMBOL res -352 -64 R270
WINDOW 0 32 56 VTop 0
WINDOW 3 0 56 VBottom 0
SYMATTR InstName R6
SYMATTR Value 1k
SYMBOL res -240 -48 R0
SYMATTR InstName R7
SYMATTR Value 1k
SYMBOL polcap -160 -48 R0
SYMATTR InstName C3
SYMATTR Value 10=B5
SYMBOL res 32 -112 R0
SYMATTR InstName R2
SYMATTR Value 10k
SYMBOL res 144 -112 R0
SYMATTR InstName R3
SYMATTR Value 1000k
SYMBOL res 256 -112 R0
SYMATTR InstName R8
SYMATTR Value 10k
SYMBOL res 144 80 R0
SYMATTR InstName R9
SYMATTR Value 100k
SYMBOL res 256 80 R0
SYMATTR InstName R11
SYMATTR Value 100
SYMBOL res 400 -144 R0
SYMATTR InstName R12
SYMATTR Value 10k
SYMBOL polcap 512 -112 R0
SYMATTR InstName C1
SYMATTR Value .01=B5
SYMBOL polcap 608 -112 R0
SYMATTR InstName C2
SYMATTR Value 30pF
SYMBOL cap 352 -48 R0
SYMATTR InstName C5
SYMATTR Value .1=B5F
SYMBOL npn 208 -16 R0
SYMATTR InstName Q1
SYMATTR Value 2N3904
SYMBOL cap 80 0 R0
SYMATTR InstName C6
SYMATTR Value .1=B5F
SYMBOL npn 560 0 R0
SYMATTR InstName Q2
SYMATTR Value 2N3904
SYMBOL res 496 192 R270
WINDOW 0 32 56 VTop 0
WINDOW 3 0 56 VBottom 0
SYMATTR InstName R13
SYMATTR Value 1k
SYMBOL ind 688 -144 R0
SYMATTR InstName L1
SYMATTR Value .1=B5H
SYMBOL cap 688 0 R0
SYMATTR InstName C4
SYMATTR Value 4.7pF
SYMBOL res 32 48 R0
SYMATTR InstName R1
SYMATTR Value 10
TEXT -440 -464 Left 0 !.tran 0 5u 0 .0001u
TEXT -440 -424 Left 0 !.ic V(in1)=3D2.7
TEXT -440 -512 Left 0 ;FM transmitter
```

```
From 3127453980926695615
X-Google-Thread: 4baf9708d4,6d9977a010bb6971
X-Google-Attributes: gid4baf9708d4,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 21 Oct 2009 11:11:07 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Modeling an FM transmitter with LTspice?
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
References: <452cfa58-f0c3-4544-a8eb-cea0507a1ad9@z34g2000vbl.googlegroups.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <AN-dnTK6mskGr0LXnZ2dnUVZ_jJi4p2d@web-ster.com>
Date: Wed, 21 Oct 2009 11:11:07 -0500
Lines: 36
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-XE8kI/
JDmdLmL7BWMBhxIPWB1WFphobQ4Sso89V6q6elUWrJoP0rXCOgBjIiBih6+JbQ1U5qpnJgloW!Ey/
3Bklot0orCyyTk65e6EMvSbsBpFh8YrF/0HcxVmxJFNa0Cijk86uZn1OQAifty4Che9SS4d9E!
aWT+0BkPm9Fu9/s=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3161
```

rec.radio.amateur.antenna:15128

On Wed, 21 Oct 2009 07:31:36 -0700, dave.harper wrote:

> I'm trying to model an FM transmitter with LTspice. The schematic of
> the circuit I'm trying to model is shown here:
>
> http://www.sentex.ca/~mec1995/circ/fmt1.htm
>
> It takes a while to start oscillating, but when it does reach a steady
> oscillation, the lower half of the waveforms look a little distorted.
> Interestingly, when I reduce the inductor value (to say .01uH), the
> waveforms are less distorted, but when I only decrease the capacitor (to
> say 3pF), the waveforms become more distorted. Any insight into the
> source of this distortion?
>
> Could it be that I need to model an equivalent antenna?
>
> I've copied the LTspice .asc file below.
>
> Thanks in advance!
> Dave
>

What are you trying to find out with your simulation? Simulation is
usually either pointless or time consuming unless you have some narrow
thing to look for, and have a good idea what it is.

I suspect that the waveform distortion is related to the impedance of the
tank more than the resonant frequency. Reducing the inductor value
lowers impedance and raises frequency; reducing the capacitor value
raises impedance and frequency together.

Yes, you probably need to model an equivalent antenna. In fact, for many
things you may want to find out from simulation you would need to model
several different equivalent antennas.

--
www.wescottdesign.com

From 5950436164946048475
X-Google-Thread: 4baf9708d4,6d9977a010bb6971
X-Google-Attributes: gid4baf9708d4,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 21 Oct 2009 13:54:00 -0500
Date: Wed, 21 Oct 2009 11:53:52 -0700
From: Roy Lewallen <w7el@eznec.com>
Reply-To: w7el@eznec.com
Organization: EZNEC Antenna Software

User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Modeling an FM transmitter with LTspice?
References: <452cfa58-f0c3-4544-a8eb-cea0507a1ad9@z34g2000vbl.googlegroups.com>
In-Reply-To: <452cfa58-f0c3-4544-a8eb-cea0507a1ad9@z34g2000vbl.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <cvmdnYis6slVxULXnZ2dnUVZ_uSdnZ2d@giganews.com>
Lines: 51
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-SrrY3EJTuL/
OE6XND9tKPiWs2KF8QF7XywgLeGHid65uzLoydl4MWJ+YGSq1rjYLGTwOVkOQsJwUooL!
lCOsva3ZHTJYcj/tPuzxy0zuTN2D6UsFLM/O1G9y4Jz1SYwqIHdy3Hx8bbFfMeKSbXA+V9e9Pwpe
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3162 rec.radio.amateur.antenna:15131

dave.harper wrote:
> I'm trying to model an FM transmitter with LTspice. The schematic of
> the circuit I'm trying to model is shown here:
>
> http://www.sentex.ca/~mec1995/circ/fmt1.htm
>
> It takes a while to start oscillating, but when it does reach a steady
> oscillation, the lower half of the waveforms look a little distorted.
> Interestingly, when I reduce the inductor value (to say .01uH), the
> waveforms are less distorted, but when I only decrease the capacitor
> (to say 3pF), the waveforms become more distorted. Any insight into
> the source of this distortion?
>
> Could it be that I need to model an equivalent antenna?
>
> I've copied the LTspice .asc file below.
>
> Thanks in advance!
> Dave

In order to start, an oscillator has a loop gain greater than one. This causes the oscillation amplitude to continually increase. Eventually, the amplitude is limited by something nonlinear, since it can't increase forever. Oscillators designed for low noise, high stability, or other precise characteristics have some stable limiting mechanism such as diodes to limit the amplitude at a known value. Most, like this one, depend on distortion caused by overdriving one or both transistors to limit the amplitude. Consequently, distortion virtually always occurs(*). To get a clean output requires filtering, and the more distortion in the basic feedback waveform, the better the filtering required. All this circuit has is a single tank circuit in one transistor collector. The loaded Q of this circuit is just too low and the fundamental distortion too great to get a clean waveform. Adding an antenna might help or hurt the distortion, depending on the type of antenna -- it might filter some harmonics but not others, and at resonance it'll further load the tank. You might try tapping the collector and antenna down on the tank, but I'd be prone to add some additional filtering between the tank and antenna. Even that might not work as you expect because of the complex way the antenna impedance changes with frequency, but it'll help.

(*) It's usually not practical to filter audio oscillators, so some low distortion audio oscillators are made by using feedback limiting that has a very slow time constant -- one that's many cycles of the waveform. A light bulb is often used for the limiter. In general, you can trade loop gain for distortion -- the closer you make the loop gain in the linear region to 1, the less distortion you get. But the slower it starts, and it won't start at all if anything like temperature or component value variation drops the loop gain below 1.

Roy Lewallen, W7EL

```
From 6396542471354653799
X-Google-Thread: 4baf9708d4,6d9977a010bb6971
X-Google-Attributes: gid4baf9708d4,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!l34g2000vba.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Modeling an FM transmitter with LTspice?
Date: Wed, 21 Oct 2009 11:58:08 -0700 (PDT)
Organization: http://groups.google.com
Lines: 51
Message-ID: <ee127daa-5743-47c1-8703-8209874a368a@l34g2000vba.googlegroups.com>
References: <452cfa58-f0c3-4544-a8eb-cea0507a1ad9@z34g2000vbl.googlegroups.com>
     <AN-dnTK6mskGr0LXnZ2dnUVZ_jJi4p2d@web-ster.com>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1256151489 15336 127.0.0.1 (21 Oct 2009 18:58:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 21 Oct 2009 18:58:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l34g2000vba.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3163
```

rec.radio.amateur.antenna:15132

On Oct 21, 12:11=A0pm, Tim Wescott <t...@seemywebsite.com> wrote:
> On Wed, 21 Oct 2009 07:31:36 -0700, dave.harper wrote:
> > I'm trying to model an FM transmitter with LTspice. =A0The schematic of
> > the circuit I'm trying to model is shown here:
>
> >http://www.sentex.ca/~mec1995/circ/fmt1.htm
>
> > It takes a while to start oscillating, but when it does reach a steady
> > oscillation, the lower half of the waveforms look a little distorted.
> > Interestingly, when I reduce the inductor value (to say .01uH), the
> > waveforms are less distorted, but when I only decrease the capacitor (t=
o
> > say 3pF), the waveforms become more distorted. =A0Any insight into the
> > source of this distortion?
>
> > Could it be that I need to model an equivalent antenna?
>
> > I've copied the LTspice .asc file below.
>
> > Thanks in advance!
> > Dave
>
> What are you trying to find out with your simulation? =A0Simulation is
> usually either pointless or time consuming unless you have some narrow
> thing to look for, and have a good idea what it is.
>
> I suspect that the waveform distortion is related to the impedance of the
> tank more than the resonant frequency. =A0Reducing the inductor value
> lowers impedance and raises frequency; reducing the capacitor value
> raises impedance and frequency together.
>
> Yes, you probably need to model an equivalent antenna. =A0In fact, for ma=
ny
> things you may want to find out from simulation you would need to model
> several different equivalent antennas.
>
> --www.wescottdesign.com- Hide quoted text -
>
> - Show quoted text -

Whoever said to expect something like a clean signal from a
transmitter like that in the first place. I ve build a few of those
little toy FM transmitters and the output is far from clean. Unless
this is just an exercise in Spice modeling
its probably a waste of time to do so. Intead of worrying about the
antenna I would try to figure out what was the best load for the
circuit and design an antenna to meet that requirement otherwise I
would just hang a 8 inch piece of hookup wire off it aand call it
done.

Jimmie

From 3667935626026057064
X-Google-Thread: 4baf9708d4,6d9977a010bb6971
X-Google-Attributes: gid4baf9708d4,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!feeder.news-service.com!cyclone01.ams2.highwinds-media.com!news.highwinds-media.com!npeersf01.ams.highwinds-media.com!newsfe05.ams2.POSTED!7564ea0f!not-for-mail
Message-ID: <MA5essBEI53KFw6a@b-howie.demon.co.uk>
From: Brian Howie <brian@nospam.demon.co.uk>
Reply-To: Brian Howie <brian@b-howie.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Modeling an FM transmitter with LTspice?
References: <452cfa58-f0c3-4544-a8eb-cea0507a1ad9@z34g2000vbl.googlegroups.com>
Lines: 26
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.07-S (<6Me4jMA7$LoQe2x6u1BPnvuCAQ>)
NNTP-Posting-Host: 80.177.221.69
X-Complaints-To: abuse@demon.net
X-Trace: newsfe05.ams2 1256165901 80.177.221.69 (Wed, 21 Oct 2009 22:58:21 UTC)
NNTP-Posting-Date: Wed, 21 Oct 2009 22:58:21 UTC
Date: Wed, 21 Oct 2009 23:58:12 +0100
Xref: g2news2.google.com rec.radio.amateur.homebrew:3164 rec.radio.amateur.antenna:15135

In message
<452cfa58-f0c3-4544-a8eb-cea0507a1ad9@z34g2000vbl.googlegroups.com>,
dave.harper <dave.harper@gmail.com> writes
>I'm trying to model an FM transmitter with LTspice. The schematic of
>the circuit I'm trying to model is shown here:
>
>http://www.sentex.ca/~mec1995/circ/fmt1.htm
>
>It takes a while to start oscillating, but when it does reach a steady
>oscillation, the lower half of the waveforms look a little distorted.
>Interestingly, when I reduce the inductor value (to say .01uH), the
>waveforms are less distorted, but when I only decrease the capacitor
>(to say 3pF), the waveforms become more distorted. Any insight into
>the source of this distortion?
>
>Could it be that I need to model an equivalent antenna?
>
>I've copied the LTspice .asc file below.

I ran the file. It looks like the output voltage is forward biasing the collector-base junction of the output transistor Q2 , causing some clipping. Q2 is saturating.

Brian GM4DIJ

```
--
Brian Howie


From -8379183332834594350
X-Google-Thread: 4baf9708d4,6d9977a010bb6971
X-Google-Attributes: gid4baf9708d4,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 21 Oct 2009 18:34:24 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Modeling an FM transmitter with LTspice?
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
References: <452cfa58-f0c3-4544-a8eb-cea0507a1ad9@z34g2000vbl.googlegroups.com>
     <AN-dnTK6mskGr0LXnZ2dnUVZ_jJi4p2d@web-ster.com>
     <ee127daa-5743-47c1-8703-8209874a368a@l34g2000vba.googlegroups.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <H42dnZ8vz_sdB0LXnZ2dnUVZ_vmdnZ2d@web-ster.com>
Date: Wed, 21 Oct 2009 18:34:24 -0500
Lines: 56
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-yu1bTHDVhULzzaLQLalFG+Se/NErYjiBAsXHUv1lwMxSmSAncqs++W676wLwyk08/wH/
NA4DX82HfCg!vQxyPKEsR2tzYwg6tSsjZF0q4jeb9wkqBj6uVFIpq0eVaP+0agsab/
n2crBm7mmc1FiJR7hwwP8K!yXK8MITyCLnwSxY=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3165
rec.radio.amateur.antenna:15136

On Wed, 21 Oct 2009 11:58:08 -0700, JIMMIE wrote:

> On Oct 21, 12:11 pm, Tim Wescott <t...@seemywebsite.com> wrote:
>> On Wed, 21 Oct 2009 07:31:36 -0700, dave.harper wrote:
>> > I'm trying to model an FM transmitter with LTspice.  The schematic of
>> > the circuit I'm trying to model is shown here:
>>
>> >http://www.sentex.ca/~mec1995/circ/fmt1.htm
>>
>> > It takes a while to start oscillating, but when it does reach a
>> > steady oscillation, the lower half of the waveforms look a little
>> > distorted. Interestingly, when I reduce the inductor value (to say
>> > .01uH), the waveforms are less distorted, but when I only decrease
>> > the capacitor (to say 3pF), the waveforms become more distorted.  Any
>> > insight into the source of this distortion?
>>
```

>> > Could it be that I need to model an equivalent antenna?
>>
>> > I've copied the LTspice .asc file below.
>>
>> > Thanks in advance!
>> > Dave
>>
>> What are you trying to find out with your simulation? Simulation is
>> usually either pointless or time consuming unless you have some narrow
>> thing to look for, and have a good idea what it is.
>>
>> I suspect that the waveform distortion is related to the impedance of
>> the tank more than the resonant frequency. Reducing the inductor value
>> lowers impedance and raises frequency; reducing the capacitor value
>> raises impedance and frequency together.
>>
>> Yes, you probably need to model an equivalent antenna. In fact, for
>> many things you may want to find out from simulation you would need to
>> model several different equivalent antennas.
>>
>> --www.wescottdesign.com- Hide quoted text -
>>
>> - Show quoted text -
>
> Whoever said to expect something like a clean signal from a transmitter
> like that in the first place. I ve build a few of those little toy FM
> transmitters and the output is far from clean. Unless this is just an
> exercise in Spice modeling
> its probably a waste of time to do so. Intead of worrying about the
> antenna I would try to figure out what was the best load for the circuit
> and design an antenna to meet that requirement otherwise I would just
> hang a 8 inch piece of hookup wire off it aand call it done.

I was going to suggest that if he wants a clean signal he should probably
filter the snot out of the signal, and maybe even buffer it.

But he didn't ask...

--
www.wescottdesign.com

```
From 7856714732303900514
X-Google-Thread: 4baf9708d4,6d9977a010bb6971
X-Google-Attributes: gid4baf9708d4,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 21 Oct 2009 19:00:39 -0500
Date: Wed, 21 Oct 2009 19:00:02 -0500
From: brian whatcott <betwys1@sbcglobal.net>
```

Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Modeling an FM transmitter with LTspice?
References: <452cfa58-f0c3-4544-a8eb-cea0507a1ad9@z34g2000vbl.googlegroups.com>
In-Reply-To: <452cfa58-f0c3-4544-a8eb-cea0507a1ad9@z34g2000vbl.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <3uydndywrvk6PULXnZ2dnUVZ_uKdnZ2d@giganews.com>
Lines: 27
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-xQevV+jNp9n3qteeHbJZZjWcpx2vwe6pkY0KSi8E5a8aU/
JErttwMcPjNCFFAeoiBHVKp16XmZ4nTK4!
b+oWrnp+ObLXAKjfGP196Ahxinz5VdbtfSnFTTLJa0sq6WTwUJx5RasYt3jCi7mxDa9hE7Hf25A=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3166
rec.radio.amateur.antenna:15137

dave.harper wrote:
> I'm trying to model an FM transmitter with LTspice. The schematic of
> the circuit I'm trying to model is shown here:
>
> http://www.sentex.ca/~mec1995/circ/fmt1.htm
>
> It takes a while to start oscillating, but when it does reach a steady
> oscillation, the lower half of the waveforms look a little distorted.
> Interestingly, when I reduce the inductor value (to say .01uH), the
> waveforms are less distorted, but when I only decrease the capacitor
> (to say 3pF), the waveforms become more distorted. Any insight into
> the source of this distortion?
>
> Could it be that I need to model an equivalent antenna?
>
> I've copied the LTspice .asc file below.
>
> Thanks in advance!
> Dave
>

That would be my guess too....I suspect you have set the output tuned circuit Q way high. Tapping the antenna into the coil might serve you better, and placing a small resistor in the emitter path before the feedback cap would hold the gain down, but planting a resistor to represent the antenna load might do the trick right there??

Brian W

```
From 3320282350063577843
X-Google-Thread: 241b302a50,61aee30bf52dc3aa,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe25.iad.POSTED!7564ea0f!not-for-mail
From: " Ron" <ronnclair@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: antenna part question??
Lines: 12
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18005
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18005
Message-ID: <K76Em.75833$lR3.75308@newsfe25.iad>
NNTP-Posting-Host: 24.226.69.101
X-Complaints-To: abuse@cogeco.net
X-Trace: newsfe25.iad 1256255082 24.226.69.101 (Thu, 22 Oct 2009 23:44:42 UTC)
NNTP-Posting-Date: Thu, 22 Oct 2009 23:44:42 UTC
Date: Thu, 22 Oct 2009 19:44:41 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:3167
```

Hi
I have the Delhi selfsupporting tower, it is 48ft tall I believe, an old ham tower. It has the top piece plate but I need the plate that is about 5 ft down. The previous owner of the tower made some home made ones for each 1/3 length of the tower but now I need the replacement for the one plate that I can connect the angle brackets that hold the u bolts that hold the masting. I went to to a local tv distributor now who sells the tower but not the replacement parts. I also need those angle brackets. I am in Southern Ontario. Any ideas where there are shops or ham fests in this area soon?

Thanks

```
From -5634778105730035417
X-Google-Thread: 241b302a50,61aee30bf52dc3aa
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news5
From: Bill M <radioexray@geeemail.com>
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: antenna part question??
Date: Thu, 22 Oct 2009 18:01:53 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 20
Message-ID: <hbqrpj02qtp@news5.newsguy.com>
References: <K76Em.75833$lR3.75308@newsfe25.iad>
NNTP-Posting-Host: pf749f943a28762b67ba5d771ee016a0ac878deb35e86a527.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
In-Reply-To: <K76Em.75833$lR3.75308@newsfe25.iad>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3168

  Ron wrote:
> Hi
> I have the Delhi selfsupporting tower, it is 48ft tall I believe, an old
> ham
> tower. It has the top piece plate but I need the plate that is about 5 ft
> down. The previous owner of the tower made some home made ones for each 1/3
> length of the tower but now I need the replacement for the one plate that I
> can connect the angle brackets that hold the u bolts that hold the masting.
> I went to to a local tv distributor now who sells the tower but not the
> replacement parts. I also need those angle brackets. I am in Southern
> Ontario. Any ideas where there are shops or ham fests in this area soon?
>
> Thanks
>
Try here for info:
http://www.tacocommunications.com/

I think they make the Delhi towers.

-Bill


From -7077321913062667141
X-Google-Thread: 241b302a50,30459aabbce3d424,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: "Richard" <nearlynews_email@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: Nice, roomy,  well-made cabinet (UK)
Date: Fri, 23 Oct 2009 11:29:16 +0100
Lines: 5
Message-ID: <7kdesvF36s1pvU1@mid.individual.net>
Mime-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Trace: individual.net Rx6GLF8YFyGm38v60O49DAUY/ycdTRmQFy86Fmn/5TQOH1RZ6t
Cancel-Lock: sha1:p1hJjtyQ/Duayxgpr8IGE/g5ioc=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Xref: g2news2.google.com rec.radio.amateur.homebrew:3169
```

http://cgi.ebay.co.uk/ws/eBayISAPI.dll?
ViewItem&item=230391194033&ssPageName=STRK:MESELX:IT

Is in fact an Hallicrafters cabinet (HT32A). Top opens up. Thanks for looking.

```
From 2324141624812101981
X-Google-Thread: 241b302a50,930644b6428e7d5e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j9g2000vbp.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The dish problem
Date: Fri, 23 Oct 2009 09:24:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <603e90c3-a85a-48dc-b38c-39ac6b96a3cd@j9g2000vbp.googlegroups.com>
References: <4ec1b3b7-b4e6-4e4d-89aa-d019de5b2447@q40g2000prh.googlegroups.com>
     <iZednXNwx9t-WUXXnZ2dnUVZ_rWdnZ2d@giganews.com> <fd962fd1-b840-4a57-
b8c1-32adcf4e9a66@o10g2000yqa.googlegroups.com>
     <MomdnYZ08YgwKEbXnZ2dnUVZ_qGdnZ2d@giganews.com> <f686f932-8f11-44bd-b8aa-
aebfaf5c67f6@33g2000vbe.googlegroups.com>
     <C4mdnbW1CMzyxUPXnZ2dnUVZ_rednZ2d@giganews.com>
NNTP-Posting-Host: 76.226.104.78
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1256315080 21807 127.0.0.1 (23 Oct 2009 16:24:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 23 Oct 2009 16:24:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j9g2000vbp.googlegroups.com; posting-host=76.226.104.78;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win 9x 4.90; en-US; rv:1.8.1.21)
     Gecko/20090331 K-Meleon/1.5.3,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3170
```

Hey OM:

I tell you what. I took just 1 particle wave and shoot the particle wave into a 60db dish. At the focus I got 1,000,000 partivle waves. I mean that is 60 db right?

So where did the other 999,999 particles come from? Energy density from focusing just one particle?

The two slot experiment buttresses the above.

Take 2 parallel slots shoot just one particle wave into just one slot and 2 particle waves come out the other side.

73 OM
de n8zu

```
From 2054133932528557643
X-Google-Thread: 241b302a50,930644b6428e7d5e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!x5g2000prf.googlegroups.com!not-for-
mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The dish problem
Date: Fri, 23 Oct 2009 10:23:54 -0700 (PDT)
Organization: http://groups.google.com
Lines: 34
Message-ID: <bfd6d879-7893-4c14-9ea8-0bf18aa6f825@x5g2000prf.googlegroups.com>
References: <4ec1b3b7-b4e6-4e4d-89aa-d019de5b2447@q40g2000prh.googlegroups.com>
     <iZednXNwx9t-WUXXnZ2dnUVZ_rWdnZ2d@giganews.com> <fd962fd1-b840-4a57-
b8c1-32adcf4e9a66@o10g2000yqa.googlegroups.com>
     <MomdnYZ08YgwKEbXnZ2dnUVZ_qGdnZ2d@giganews.com> <f686f932-8f11-44bd-b8aa-
aebfaf5c67f6@33g2000vbe.googlegroups.com>
     <C4mdnbW1CMzyxUPXnZ2dnUVZ_rednZ2d@giganews.com> <603e90c3-a85a-48dc-
b38c-39ac6b96a3cd@j9g2000vbp.googlegroups.com>
NNTP-Posting-Host: 219.89.65.218
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1256318634 2430 127.0.0.1 (23 Oct 2009 17:23:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 23 Oct 2009 17:23:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x5g2000prf.googlegroups.com; posting-host=219.89.65.218;
     posting-account=TfKoOgkAAABQzW2yM8tZrYe8S04m-wqP
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     MathPlayer 2.10d; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3171
```

Take a small light bulb, it shines light in many directions.

Place this at the focal point of a mirrored parabolic dish and the
light is predominantly directed in one direction.

In the direction that the dish is pointing, and at a distance, measure
the received light using a light meter.

Remove the dish, and at the same distance, measure the received light
using a light meter from the naked bulb.

One measurement will be higher than the other.

Why do you think this might be ?

On Oct 24, 5:24=A0am, raypsi <rborow...@gmail.com> wrote:
> Hey OM:
>
> I tell you what. I took just 1 particle wave and shoot the particle
> wave into a 60db dish. At the focus I got 1,000,000 partivle waves. I
> mean that is 60 db right?
>
> So where did the other 999,999 particles come from? Energy density
> from focusing just one particle?
>
> The two slot experiment buttresses the above.
>
> Take 2 parallel slots shoot just one particle wave into just one slot
> and 2 particle waves come out the other side.
>
> 73 OM
> de n8zu

From 5197978236381626165
X-Google-Thread: 241b302a50,930644b6428e7d5e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 23 Oct 2009 19:30:10 -0500
Date: Fri, 23 Oct 2009 19:25:09 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The dish problem

References: <4ec1b3b7-b4e6-4e4d-89aa-d019de5b2447@q40g2000prh.googlegroups.com>
<iZednXNwx9t-WUXXnZ2dnUVZ_rWdnZ2d@giganews.com> <fd962fd1-b840-4a57-b8c1-32adcf4e9a66@o10g2000yqa.googlegroups.com>
<MomdnYZ08YgwKEbXnZ2dnUVZ_qGdnZ2d@giganews.com> <f686f932-8f11-44bd-b8aa-aebfaf5c67f6@33g2000vbe.googlegroups.com>
<C4mdnbW1CMzyxUPXnZ2dnUVZ_rednZ2d@giganews.com> <603e90c3-a85a-48dc-b38c-39ac6b96a3cd@j9g2000vbp.googlegroups.com>
In-Reply-To: <603e90c3-a85a-48dc-b38c-39ac6b96a3cd@j9g2000vbp.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <CqWdnY5zG9wO13_XnZ2dnUVZ_udi4p2d@giganews.com>
Lines: 37
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-kd0D5a4rAVr+8NYveQnKedSMDO24x1B9kD1pyM6d5SVRmb3SWeczXneo/57lcWo6sfOGH2sHzEBaAFT!FEIzDHhsNg/Y4aPPCF0jKYGbi0/mhjdVIX0jjZ9P/7aGybEIClOk1xyOvbprROSdN0wLG0FU/i0=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3172

raypsi wrote:
> Hey OM:
>
> I tell you what. I took just 1 particle wave [per sq meter] and shoot the particle
> wave into a 60db dish. At the focus I got 1,000,000 particle waves [per sq meter]. I
> mean that is 60 db right?

Yes.
>
> So where did the other 999,999 particles come from? Energy density
> from focusing just one particle?

NOW, you're getting it! No more particles, but more particle density,
when the flux is directed tightly...

> The two slot experiment buttresses the above.
>
> Take 2 parallel slots shoot just one particle wave into just one slot
> and 2 particle waves come out the other side.
>
> 73 OM
> de n8zu

Actually no.   But you probably realized that. Or did you?

I am not pursuing this much further, because you are starting to respond
like a person who wants to drag out an argument.

Listen to me when I say: "I can be wrong. I often am."

Can you say that too, with some sincerity?   :-)

Brian W

:-)

```
From -1662805040226876530
X-Google-Thread: 241b302a50,930644b6428e7d5e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 23 Oct 2009 19:32:17 -0500
Date: Fri, 23 Oct 2009 19:27:15 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The dish problem
References: <4ec1b3b7-b4e6-4e4d-89aa-d019de5b2447@q40g2000prh.googlegroups.com>
     <iZednXNwx9t-WUXXnZ2dnUVZ_rWdnZ2d@giganews.com> <fd962fd1-b840-4a57-
b8c1-32adcf4e9a66@o10g2000yqa.googlegroups.com>
<MomdnYZ08YgwKEbXnZ2dnUVZ_qGdnZ2d@giganews.com> <f686f932-8f11-44bd-b8aa-
aebfaf5c67f6@33g2000vbe.googlegroups.com>
<C4mdnbW1CMzyxUPXnZ2dnUVZ_rednZ2d@giganews.com> <603e90c3-a85a-48dc-
b38c-39ac6b96a3cd@j9g2000vbp.googlegroups.com>
<bfd6d879-7893-4c14-9ea8-0bf18aa6f825@x5g2000prf.googlegroups.com>
In-Reply-To: <bfd6d879-7893-4c14-9ea8-0bf18aa6f825@x5g2000prf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <CqWdnYlzG9yM1n_XnZ2dnUVZ_udi4p2d@giganews.com>
Lines: 41
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-XkKXlHX+pg1N0B5UXI5x1ZUiYGcubaZa8rC/R3bhmxhHSIMy51K/
fbe479aeGx4j3rkZZcfoAAeXVDn!
bCeKqK87RtltBVIyKFo6Z+QGlvUQM81P4ThLKGihQD9mJf97a90i4nwg7KTI9nZd7yTfpV/oasQ=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3173
```

```
Nice concrete example, Mark.
The same conclusion holds if the bulb is so dim, that it only emits one
photon at intervals.

Brian W

MarkAren wrote:
> Take a small light bulb, it shines light in many directions.
>
> Place this at the focal point of a mirrored parabolic dish and the
> light is predominantly directed in one direction.
>
> In the direction that the dish is pointing, and at a distance, measure
> the received light using a light meter.
>
> Remove the dish, and at the same distance, measure the received light
> using a light meter from the naked bulb.
>
> One measurement will be higher than the other.
>
> Why do you think this might be ?
>
>
> On Oct 24, 5:24 am, raypsi <rborow...@gmail.com> wrote:
>> Hey OM:
>>
>> I tell you what. I took just 1 particle wave and shoot the particle
>> wave into a 60db dish. At the focus I got 1,000,000 partivle waves. I
>> mean that is 60 db right?
>>
>> So where did the other 999,999 particles come from? Energy density
>> from focusing just one particle?
>>
>> The two slot experiment buttresses the above.
>>
>> Take 2 parallel slots shoot just one particle wave into just one slot
>> and 2 particle waves come out the other side.
>>
>> 73 OM
>> de n8zu
>


From 249362105595773586
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!31g2000vbf.googlegroups.com!not-for-
mail
From: gfghfghfgh <resourts08@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Naked Photos sex very hot sexy girls womans
Date: Sat, 24 Oct 2009 10:46:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 3
```

```
Message-ID: <d3968236-368b-4563-934d-940ea3bdf9a7@31g2000vbf.googlegroups.com>
NNTP-Posting-Host: 115.42.64.6
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1256406409 23471 127.0.0.1 (24 Oct 2009 17:46:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 24 Oct 2009 17:46:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 31g2000vbf.googlegroups.com; posting-host=115.42.64.6;
     posting-account=cndE5QoAAABr_VeQqD6STsBAa5qwgdZ-
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.3)
     Gecko/20090824 Firefox/3.5.3,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3174

Naked Photos sex very hot sexy girls womans

http://beautiful-hot-girls-photo.blogspot.com



From -7819620527720654981
X-Google-Thread: 241b302a50,930644b6428e7d5e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p9g2000vbl.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The dish problem
Date: Sat, 24 Oct 2009 11:47:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 59
Message-ID: <00b710fb-5616-4f32-a513-b01d226e79cb@p9g2000vbl.googlegroups.com>
References: <4ec1b3b7-b4e6-4e4d-89aa-d019de5b2447@q40g2000prh.googlegroups.com>
     <iZednXNwx9t-WUXXnZ2dnUVZ_rWdnZ2d@giganews.com> <fd962fd1-b840-4a57-
b8c1-32adcf4e9a66@o10g2000yqa.googlegroups.com>
     <MomdnYZ08YgwKEbXnZ2dnUVZ_qGdnZ2d@giganews.com> <f686f932-8f11-44bd-b8aa-
aebfaf5c67f6@33g2000vbe.googlegroups.com>
     <C4mdnbW1CMzyxUPXnZ2dnUVZ_rednZ2d@giganews.com> <603e90c3-a85a-48dc-
b38c-39ac6b96a3cd@j9g2000vbp.googlegroups.com>
     <CqWdnY5zG9wO13_XnZ2dnUVZ_udi4p2d@giganews.com>
NNTP-Posting-Host: 76.226.98.236
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1256410030 4183 127.0.0.1 (24 Oct 2009 18:47:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 24 Oct 2009 18:47:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p9g2000vbl.googlegroups.com; posting-host=76.226.98.236;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win 9x 4.90; en-US; rv:1.8.1.21)
```

Gecko/20090331 K-Meleon/1.5.3,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3175

Hey OM

By golly ole timer you hit the nail on the head.

I don't pay no stinking taxes, in the W-4 form I put "EXEMPT" where it
asks for number of deductions, and when I file my 1040 it says at the
end of the form REFUND DUE, in four figures, for the last several
years. Now that is legit, but it sure is WRONG, at least that is what
everyone tells me.

Your trouble is you pay taxes, where as I don't. Now that is energy
density.

73 OM
de n8zu

On Oct 23, 8:25 pm, brian whatcott <betw...@sbcglobal.net> wrote:
> raypsi wrote:
> > Hey OM:
>
> > I tell you what. I took just 1 particle wave [per sq meter] and shoot the
particle
> > wave into a 60db dish. At the focus I got 1,000,000 particle waves [per sq
meter]. I
> > mean that is 60 db right?
>
> Yes.
>
>
>
> > So where did the other 999,999 particles come from? Energy density
> > from focusing just one particle?
>
> NOW, you're getting it! No more particles, but more particle density,
> when the flux is directed tightly...
>
> > The two slot experiment buttresses the above.
>
> > Take 2 parallel slots shoot just one particle wave into just one slot
> > and 2 particle waves come out the other side.
>
> > 73 OM
> > de n8zu
>
> Actually no.   But you probably realized that. Or did you?
>

```
> I am not pursuing this much further, because you are starting to respond
> like a person who wants to drag out an argument.
>
> Listen to me when I say: "I can be wrong. I often am."
>
> Can you say that too, with some sincerity?   :-)
>
> Brian W
>
> :-)



From -6495463931159038328
X-Google-Thread: 241b302a50,930644b6428e7d5e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news6
From: Bill M <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The dish problem
Date: Sat, 24 Oct 2009 13:01:42 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 20
Message-ID: <hbvj5s02odc@news6.newsguy.com>
References: <4ec1b3b7-b4e6-4e4d-89aa-d019de5b2447@q40g2000prh.googlegroups.com>
     <iZednXNwx9t-WUXXnZ2dnUVZ_rWdnZ2d@giganews.com> <fd962fd1-b840-4a57-
b8c1-32adcf4e9a66@o10g2000yqa.googlegroups.com>
<MomdnYZ08YgwKEbXnZ2dnUVZ_qGdnZ2d@giganews.com> <f686f932-8f11-44bd-b8aa-
aebfaf5c67f6@33g2000vbe.googlegroups.com>
<C4mdnbW1CMzyxUPXnZ2dnUVZ_rednZ2d@giganews.com> <603e90c3-a85a-48dc-
b38c-39ac6b96a3cd@j9g2000vbp.googlegroups.com>
<CqWdnY5zG9wO13_XnZ2dnUVZ_udi4p2d@giganews.com> <00b710fb-5616-4f32-a513-
b01d226e79cb@p9g2000vbl.googlegroups.com>
NNTP-Posting-Host: p86dcb09010585abb4dc943ba5b2d45b48895fba9d4ac6ec0.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
In-Reply-To: <00b710fb-5616-4f32-a513-b01d226e79cb@p9g2000vbl.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3176

raypsi wrote:
> Hey OM
>
> By golly ole timer you hit the nail on the head.
>
> I don't pay no stinking taxes, in the W-4 form I put "EXEMPT" where it
> asks for number of deductions, and when I file my 1040 it says at the
> end of the form REFUND DUE, in four figures, for the last several
```

> years. Now that is legit, but it sure is WRONG, at least that is what
> everyone tells me.
>
> Your trouble is you pay taxes, where as I don't. Now that is energy
> density.
>
> 73 OM
> de n8zu

Ah, now I see the real 'problem' :)

-Bill

From -7723911674975981262
X-Google-Thread: 241b302a50,9fa8a6d9261ed168,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 25 Oct 2009 08:41:31 -0500
Date: Sun, 25 Oct 2009 08:41:04 -0500
From: sorry-spammers <""w9wi\"@(sorry-spammers)">
Organization: Ham Radio W9WI
User-Agent: Thunderbird 2.0.0.23 (X11/20090817)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Right-to-left schematics?
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <R_GdnXLdacoWyHnXnZ2dnUVZ_judnZ2d@earthlink.com>
Lines: 21
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 4.153.65.23
X-Trace: sv3-LCCoEjUrfQY/73oKEHV1/gMBYdTXOU13+QbDdO1kY0lQDQwIdgvaEMJqT/uXY/PmxSowiJJYQXO0JA1!HyVuF983OinqFeWjkFD+H63texS/mjtCCfDx8uOai9NUHs+02IrwRrs60WU2r7vy/nf4MSYIoucj!Fsx6j1V7240aS4iPsr+tneNcTw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3177

Yep, this is an off-the-wall question.....

Paging through an old QST, it dawned on me that when schematics are drawn, usually the earliest stages are drawn on the left side of the diagram. The
speech input circuits for a voice transmitter; the antenna coupling and RF preamp (if any) for a receiver, etc., all seem to be drawn on the left.

In the tube days at least (and to some degree with solid-state homebrew today) we

seem to build the actual equipment the same way: the earliest stages
are physically on the left side of the gear.

Of course, in Western culture we also read and write from left to right. I
suppose we learn to look for the beginning of a story on the left side of
the page.

And of course, in some other cultures, people read and write from *right to left*.

When people from these cultures become involved in radio, do they draw schematics
(and build gear?) in the same direction Westerners do? Or do they
work "backwards"?

--

Doug Smith W9WI
Pleasant View, TN EM66

From 4128131762492047854
X-Google-Thread: 241b302a50,9fa8a6d9261ed168
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!188.40.43.213.MISMATCH!feeder.eternal-september.org!eternal-september.org!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Right-to-left schematics?
Date: Sun, 25 Oct 2009 10:29:57 -0400
Organization: A noiseless patient Spider
Lines: 36
Message-ID: <hc1n5s$lf0$1@news.eternal-september.org>
References: <R_GdnXLdacoWyHnXnZ2dnUVZ_judnZ2d@earthlink.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.eternal-september.org U2FsdGVkX18J1d6MDcyaT/oLFVBoIgusqtP+HdwET+E8YhxkqVGoSdlBV+0AlmuLZPxNGpXFDW7rtUWyAXFH6JnyhqKYy6Z70Oy6E3HwHP+JpKtPvtlpJbGeggJ6dPL3IZ/s/dYqqEA6f99GOGX0JRdhLx855qoN
X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Sun, 25 Oct 2009 14:26:04 +0000 (UTC)
In-Reply-To: <R_GdnXLdacoWyHnXnZ2dnUVZ_judnZ2d@earthlink.com>
X-Auth-Sender: U2FsdGVkX1+Wfhw7H5ZHje2uMw2sxn/gBom+6NTYpvvWTwwdWQJt3Q==
Cancel-Lock: sha1:0KA9G8xa7laN1Qle8YW7O9YC80A=
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3178

sorry-spammers wrote:
> Yep, this is an off-the-wall question.....
>

> Paging through an old QST, it dawned on me that when schematics are
> drawn, usually the earliest stages are drawn on the left side of the
> diagram. The speech input circuits for a voice transmitter; the antenna
> coupling and RF preamp (if any) for a receiver, etc., all seem to be
> drawn on the left.
>
> In the tube days at least (and to some degree with solid-state homebrew
> today) we seem to build the actual equipment the same way: the earliest
> stages are physically on the left side of the gear.
>
> Of course, in Western culture we also read and write from left to
> right. I suppose we learn to look for the beginning of a story on the
> left side of the page.
>
>
> And of course, in some other cultures, people read and write from *right
> to left*.
>
> When people from these cultures become involved in radio, do they draw
> schematics (and build gear?) in the same direction Westerners do? Or do
> they work "backwards"?
>

I've always wondered why some languages were written from right to left.
Could it be that in some cultures left handed people were more common
than right handed?

Actually, I think the answer lies in the fact that some early writing
was done not on paper like material with charcoal or ink, but with stone
tablets and chisels. Since a right handed person would hold the chisel
with his left hand to strike it with a hammer held in his right, the
characters would be written from right to left. So ancient languages
like Hebrew would have been written from right to left, and still are
even though nothing is carved in stone anymore.

From -4687100179859081303
X-Google-Thread: 241b302a50,9fa8a6d9261ed168
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!novia!news-out.readnews.com!news-xxxfer.readnews.com!
news.misty.com!not-for-mail
From: "Geoffrey S. Mendelson" <gsm@mendelson.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Right-to-left schematics?
Date: Sun, 25 Oct 2009 14:49:04 +0000 (UTC)
Organization: MGT Consulting
Lines: 24
Message-ID: <slrnhe8p3q.tjf.gsm@cable.mendelson.com>
References: <R_GdnXLdacoWyHnXnZ2dnUVZ_judnZ2d@earthlink.com>
 <hc1n5s$lf0$1@news.eternal-september.org>
Reply-To: gsm@mendelson.com

NNTP-Posting-Host: 89-138-138-192.bb.netvision.net.il
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: max.inside.misty.com 1256482144 31349 89.138.138.192 (25 Oct 2009 14:49:04 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Sun, 25 Oct 2009 14:49:04 +0000 (UTC)
User-Agent: slrn/pre1.0.0-2 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3179

Kenneth Scharf wrote:

> Actually, I think the answer lies in the fact that some early writing
> was done not on paper like material with charcoal or ink, but with stone
> tablets and chisels. Since a right handed person would hold the chisel
> with his left hand to strike it with a hammer held in his right, the
> characters would be written from right to left. So ancient languages
> like Hebrew would have been written from right to left, and still are
> even though nothing is carved in stone anymore.

While Hebrew words are written right to left, in Israel, numbers are not.

Dates are the European format, dd/mm/yy. Telephone numbers used to be six digits 123-456 and they went to 7 digits a digit was added at the begining, so the they became 1234-567.

Did pre WWII schematics in China and Japan go right to left? I know that Japan had a thriving electronics industry and university level studies.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM

From -6945237254201668765
X-Google-Thread: 241b302a50,9fa8a6d9261ed168
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!feeder1.news.elisa.fi!uutiset.elisa.fi!7564ea0f!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Right-to-left schematics?
Message-ID: <7rp8e5hp831metkq7ean4ftpqqsmrqt93g@4ax.com>
References: <R_GdnXLdacoWyHnXnZ2dnUVZ_judnZ2d@earthlink.com> <hc1n5s$lf0$1@news.eternal-september.org>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
Lines: 25
Date: Sun, 25 Oct 2009 17:00:43 +0200
NNTP-Posting-Host: 85.76.204.55
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1256482840 85.76.204.55 (Sun, 25 Oct 2009 17:00:40 EET)
NNTP-Posting-Date: Sun, 25 Oct 2009 17:00:40 EET
Organization: Elisa Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:3180

On Sun, 25 Oct 2009 10:29:57 -0400, Kenneth Scharf
<wa2mze@bellsouth.net> wrote:

>I've always wondered why some languages were written from right to left.
> Could it be that in some cultures left handed people were more common
>than right handed?
>
>Actually, I think the answer lies in the fact that some early writing
>was done not on paper like material with charcoal or ink, but with stone
>tablets and chisels. Since a right handed person would hold the chisel
>with his left hand to strike it with a hammer held in his right, the
>characters would be written from right to left. So ancient languages
>like Hebrew would have been written from right to left, and still are
>even though nothing is carved in stone anymore.

Some old scripts used bidirectional writing, with one line going from
left to right and the next right to left
http://en.wikipedia.org/wiki/Boustrophedon

Some schematics appears to be drawn in this way too.

Paul

From 666906192326569714
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!proxad.net!feeder1-2.proxad.net!usenet-fr.net!ircam.fr!freenix!news.wanadoo.fr!news.wanadoo.fr!not-for-mail
From: "QRP'er" <nexistepas@free.fr>
Newsgroups: rec.radio.amateur.homebrew
Subject: ADC-40 FI ? (KD1JV QRP)
Date: Mon, 26 Oct 2009 15:02:57 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Lines: 15
Message-ID: <4ae5ac11$0$972$ba4acef3@news.orange.fr>

Organization: les newsgroups par Orange
NNTP-Posting-Date: 26 Oct 2009 15:02:57 CET
NNTP-Posting-Host: 92.137.26.142
X-Trace: 1256565777 news.orange.fr 972 92.137.26.142:2134
X-Complaints-To: abuse@orange.fr
Xref: g2news2.google.com rec.radio.amateur.homebrew:3181

HI,
I'm building the ADC-40 made by KD1JV.
I would like to know what kind of 10.7 FI is used as filter because there are several type of FI with different characteristics spotted by different color.

Could someone tell me the color I need ?

Thanks a lot.

Here the link of ADC-40 : http://kd1jv.qrpradio.com/ADC/ADC-40.htm

72

From -3947005754076496089
X-Google-Thread: 241b302a50,9fa8a6d9261ed168
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!d4g2000vbm.googlegroups.com!not-for-mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Right-to-left schematics?
Date: Mon, 26 Oct 2009 07:31:57 -0700 (PDT)
Organization: http://groups.google.com
Lines: 57
Message-ID: <680d9131-91c5-494d-b4aa-9e08f5669d8c@d4g2000vbm.googlegroups.com>
References: <R_GdnXLdacoWyHnXnZ2dnUVZ_judnZ2d@earthlink.com>
    <hc1n5s$lf0$1@news.eternal-september.org>
<slrnhe8p3q.tjf.gsm@cable.mendelson.com>
NNTP-Posting-Host: 142.162.128.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1256567518 8535 127.0.0.1 (26 Oct 2009 14:31:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 26 Oct 2009 14:31:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d4g2000vbm.googlegroups.com; posting-host=142.162.128.246;
    posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;

     GTB6),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3182

On Oct 25, 11:49=A0am, "Geoffrey S. Mendelson" <g...@mendelson.com>
wrote:
> Kenneth Scharf wrote:
> > Actually, I think the answer lies in the fact that some early writing
> > was done not on paper like material with charcoal or ink, but with ston=
e
> > tablets and chisels. =A0Since a right handed person would hold the chis=
el
> > with his left hand to strike it with a hammer held in his right, the
> > characters would be written from right to left. =A0So ancient languages
> > like Hebrew would have been written from right to left, and still are
> > even though nothing is carved in stone anymore.
>
> While Hebrew words are written right to left, in Israel, numbers are not.
>
> Dates are the European format, dd/mm/yy. Telephone numbers used to be six=
 digits
> 123-456 and they went to 7 digits a digit was added at the beginning, so =
the they
> became 1234-567.
>
> Did pre WWII schematics in China and Japan go right to left? I know that =
Japan
> had a thriving electronics industry and university level studies.
>
> Geoff.
>
> --
> Geoffrey S. Mendelson, Jerusalem, Israel g...@mendelson.com =A0N3OWJ/4X1G=
M

Re telephone numbers. Historically smaller telephone systems had
various numbers of digits! Sometimes as few as three digits.
In large cities such as New York, London, early systems used letters
not digits to identify the switching centre. So an operator would be
asked "Get me Yonkers 2348" etc.
A famous telephone number was WHI-1212 (Namely; Whitehall one two one
two, for Scotland Yard, UK's federal police at the time).
With introduction of long distance dialling it then became was
necessary to have other WHn telephone switching exchanges. Lets' say
there was a WHITCHURCH for example. WHI could not be use for both! So
WH2 and then WH3 were used.
Eventually using letters became too cumbersome and switching offices
(in North America at least) became "All number".
For example I live in an area where the switching office code is 437-.
It's a small area and not all the possible numbers within 437- are
used. However with today's portability of numbers and computer
directed switching the concept of a switching exchange serving only
one geographic area has completely changed.
The concept of three digits identifying a switching unit within which

one could have ten thousand individual telephone subscriber numbers 0000 to 9999, along with three digit 'Area Codes' for the various provinces, cities and states in North America also worked well and is in use today. Heavily populated areas have several (many) area codes. While lightly populated ones may not use more than a small percentage of the theoretically possible one million combinations within each area code.

```
From 6059004663036899592
X-Google-Thread: 241b302a50,9fa8a6d9261ed168
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news.ripco.com!
textfeed1.on.meganewsservers.com!meganewsservers.com!
feeder2.on.meganewsservers.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.250.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!
news.misty.com!not-for-mail
From: "Geoffrey S. Mendelson" <gsm@mendelson.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Right-to-left schematics?
Date: Mon, 26 Oct 2009 15:34:05 +0000 (UTC)
Organization: MGT Consulting
Lines: 16
Message-ID: <slrnhebg55.o3a.gsm@cable.mendelson.com>
References: <R_GdnXLdacoWyHnXnZ2dnUVZ_judnZ2d@earthlink.com>
 <hc1n5s$lf0$1@news.eternal-september.org>
 <slrnhe8p3q.tjf.gsm@cable.mendelson.com>
 <680d9131-91c5-494d-b4aa-9e08f5669d8c@d4g2000vbm.googlegroups.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-138-138-192.bb.netvision.net.il
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: max.inside.misty.com 1256571245 25863 89.138.138.192 (26 Oct 2009
15:34:05 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Mon, 26 Oct 2009 15:34:05 +0000 (UTC)
User-Agent: slrn/pre1.0.0-2 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3183
```

terry wrote:

> A famous telephone number was WHI-1212 (Namely; Whitehall one two one
> two, for Scotland Yard, UK's federal police at the time).

Pennsylvania 6 5000 (in New York City)

http://www.youtube.com/watch?v=i0m6i1HQxN8

In use since 1919.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM

From 7065820844236823017
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!postnews.google.com!
m3g2000pri.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ADC-40 FI ? (KD1JV QRP)
Date: Mon, 26 Oct 2009 11:54:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 21
Message-ID: <fa8b9ed2-0f9f-4bd0-b97c-0f1e50b275e3@m3g2000pri.googlegroups.com>
References: <4ae5ac11$0$972$ba4acef3@news.orange.fr>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1256583294 4241 127.0.0.1 (26 Oct 2009 18:54:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 26 Oct 2009 18:54:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m3g2000pri.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
     AppleWebKit/532.0 (KHTML, like Gecko) Chrome/3.0.195.27 Safari/
532.0,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3184

On Oct 26, 10:02=A0am, "QRP'er" <nexiste...@free.fr> wrote:
> HI,
> I'm building the ADC-40 made by KD1JV.
> I would like to know what kind of 10.7 FI is used as =A0filter because th=
ere
> are several type of FI with different characteristics spotted by differen=
t
> color.
>
> Could someone tell me the color I need ?
>
> Thanks a lot.
>
> Here the link of ADC-40 :http://kd1jv.qrpradio.com/ADC/ADC-40.htm

He says he used a Mouser 42IF123 "green" IF transformer but he notes
that 42IF122 "brown" works too. It's there primarily to be a easy 7
MHz resonant circuit although the impedance transformation is a useful

side effect here.

Tim.

```
From 6212195402231339387
X-Google-Thread: 241b302a50,26314ec8e5180a28
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!newsfeed.straub-nv.de!proxad.net!feeder1-2.proxad.net!
193.252.117.184.MISMATCH!news.wanadoo.fr!news.wanadoo.fr!not-for-mail
From: "QRP'er" <nexistepas@free.fr>
Newsgroups: rec.radio.amateur.homebrew
References: <4ae5ac11$0$972$ba4acef3@news.orange.fr> <fa8b9ed2-0f9f-4bd0-
b97c-0f1e50b275e3@m3g2000pri.googlegroups.com>
Subject: Re: ADC-40 FI ? (KD1JV QRP)
Date: Mon, 26 Oct 2009 20:36:52 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Lines: 21
Message-ID: <4ae5fa54$0$961$ba4acef3@news.orange.fr>
Organization: les newsgroups par Orange
NNTP-Posting-Date: 26 Oct 2009 20:36:52 CET
NNTP-Posting-Host: 92.137.26.142
X-Trace: 1256585812 news.orange.fr 961 92.137.26.142:4156
X-Complaints-To: abuse@orange.fr
Xref: g2news2.google.com rec.radio.amateur.homebrew:3185
```

> I'm building the ADC-40 made by KD1JV.
> I would like to know what kind of 10.7 FI is used as filter because there
> are several type of FI with different characteristics spotted by different
> color.

He says he used a Mouser 42IF123 "green" IF transformer but he notes
that 42IF122 "brown" works too. It's there primarily to be a easy 7
MHz resonant circuit although the impedance transformation is a useful
side effect here.

Thanks a lot Tim.
But it is amazing because the two FI have very different impedances :
42IF122 = 15K/0.3K
42IF123 = 25K/4K
Which are rather distant from one another...

OK I will try

From -8593333125588187466
X-Google-Thread: 241b302a50,26314ec8e5180a28
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 26 Oct 2009 16:01:40 -0500
From: "Dave M" <masondg4499@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4ae5ac11$0$972$ba4acef3@news.orange.fr> <fa8b9ed2-0f9f-4bd0-
b97c-0f1e50b275e3@m3g2000pri.googlegroups.com>
<4ae5fa54$0$961$ba4acef3@news.orange.fr>
Subject: Re: ADC-40 FI ? (KD1JV QRP)
Date: Mon, 26 Oct 2009 17:01:39 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <EZudnQw85e-pk3vXnZ2dnUVZ_j-dnZ2d@giganews.com>
Lines: 34
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
y9GNL9mzj0lRAji2jJLrcxFRE0utLCeGcFf+ilnsuJLd5D8H4p0qx+oqYXlsWV1KHns5dNqgXUgWL8y!
DNb0dYVr4tK12H0xR1MgQ/AWL7/MnENZ9h3szHcRuVBsYb2wevQBtkk34VYWKc8E6z2hVIlbKs1p
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3186

QRP'er wrote:
>> I'm building the ADC-40 made by KD1JV.
>> I would like to know what kind of 10.7 FI is used as filter because
>> there are several type of FI with different characteristics spotted
>> by different color.
>
> He says he used a Mouser 42IF123 "green" IF transformer but he notes
> that 42IF122 "brown" works too. It's there primarily to be a easy 7
> MHz resonant circuit although the impedance transformation is a useful
> side effect here.
>
> Thanks a lot Tim.
> But it is amazing because the two FI have very different impedances :
> 42IF122 = 15K/0.3K

> 42IF123 = 25K/4K
> Which are rather distant from one another...
>
> OK I will try

I think the objective of the 10.7 MHz IF transformers here is their ability to be retuned to resonate in the 40M band (7000-7300 KHz). The actual impedances aren't critical as long as 40M resonance can be achieved.

--
David
masondg44 at comcast dot net

From 7856170570921759940
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news.kjsl.com!news.lafn.org!not-for-mail
From: mark <bk416@lafn.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: osc coil
Date: Tue, 27 Oct 2009 02:50:49 -0700
Organization: The Los Angeles Free-Net
Lines: 4
Message-ID: <hc6fps$293k$1@zook.lafn.org>
NNTP-Posting-Host: 66-81-120-180.socal.dialup.o1.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: zook.lafn.org 1256637053 74868 66.81.120.180 (27 Oct 2009 09:50:53 GMT)
X-Complaints-To: usenet@zook.lafn.org
NNTP-Posting-Date: Tue, 27 Oct 2009 09:50:53 +0000 (UTC)
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
X-Antivirus: avast! (VPS 091026-0, 10/26/2009), Outbound message
X-Antivirus-Status: Clean
Xref: g2news2.google.com rec.radio.amateur.homebrew:3187

Anyone know where I can get a CA-5484 (that's a manufacture part no. not Realistic I think it says matsumi on the top of the can)osc coil from a Realistic DX100 receiver it's 1.6-4.5 MHZ it looks like the old 6 transistor radio can transformer.

From -1139166909803407639
X-Google-Thread: 241b302a50,26314ec8e5180a28

```
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!p9g2000vbl.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ADC-40 FI ? (KD1JV QRP)
Date: Tue, 27 Oct 2009 07:19:31 -0700 (PDT)
Organization: http://groups.google.com
Lines: 21
Message-ID: <e39e9e1d-d2dc-4337-94dc-a1ef8ed17834@p9g2000vbl.googlegroups.com>
References: <4ae5ac11$0$972$ba4acef3@news.orange.fr> <fa8b9ed2-0f9f-4bd0-
b97c-0f1e50b275e3@m3g2000pri.googlegroups.com>
     <4ae5fa54$0$961$ba4acef3@news.orange.fr>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1256653171 27497 127.0.0.1 (27 Oct 2009 14:19:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Oct 2009 14:19:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p9g2000vbl.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
     AppleWebKit/532.0 (KHTML, like Gecko) Chrome/3.0.195.27 Safari/
532.0,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3188
```

On Oct 26, 3:36=A0pm, "QRP'er" <nexiste...@free.fr> wrote:

> But it is amazing because the two FI have very different impedances :
> 42IF122 =3D 15K/0.3K
> 42IF123 =3D 25K/4K
> Which are rather distant from one another...

KD1JV is using them as readily available components that can be made to resonate on 40M.

That section is both a narrowband filter and a matching network; the topology around two coupled resonant LC's guarantees the narrowbandedness more than any individual component values. And mismatches can largely be accomodated by tweaking the cores. I'm sure there's some difference in core position depending on what part you use but as long as it peaks up in the 40M band you're good to go.

If you don't have those Mouser cores, don't worry, you can tear apart any FM radio from the past chunk of a century and find 10.7MHz transformers in it.

Tim.

```
From -2262243272843622266
X-Google-Thread: 241b302a50,9fa8a6d9261ed168
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!k17g2000yqh.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Right-to-left schematics?
Date: Tue, 27 Oct 2009 09:25:27 -0700 (PDT)
Organization: http://groups.google.com
Lines: 37
Message-ID: <55a53e56-ccd2-417b-85bd-986b15189fe6@k17g2000yqh.googlegroups.com>
References: <R_GdnXLdacoWyHnXnZ2dnUVZ_judnZ2d@earthlink.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1256660727 31770 127.0.0.1 (27 Oct 2009 16:25:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Oct 2009 16:25:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k17g2000yqh.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
     AppleWebKit/532.0 (KHTML, like Gecko) Chrome/3.0.195.27 Safari/
532.0,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3189

On Oct 25, 9:41=A0am, sorry-spammers <""w9wi\"@(sorry-spammers)"> wrote:
> Paging through an old QST, it dawned on me that when schematics are drawn=
, usually the earliest stages are drawn on the left side of the diagram. =
=A0The
> speech input circuits for a voice transmitter; the antenna coupling and R=
F preamp (if any) for a receiver, etc., all seem to be drawn on the left.
>
> In the tube days at least (and to some degree with solid-state homebrew t=
oday) we seem to build the actual equipment the same way: the earliest stag=
es
> are physically on the left side of the gear.

Heck, when I lay out a PCB or do dead-bug construction, I start on the
left too :-).

> Of course, in Western culture we also read and write from left to right. =
=A0I suppose we learn to look for the beginning of a story on the left side=
 of
> the page.
>
> And of course, in some other cultures, people read and write from *right =
```

to left*.
>
> When people from these cultures become involved in radio, do they draw sc=
hematics (and build gear?) in the same direction Westerners do? =A0Or do th=
ey
> work "backwards"?

In the 70's I was befuddled by a bunch of schematics from England that
I had to decode. I came to the conclusion that they were hard to read
because they drive on the wrong side of the road over there. But
really they were just using (by my standards) some odd symbols or odd
line thicknesses oddly placed. In my experience the choice of odd or
unconventional or even just different symbols is a far bigger barrier
to schematics between different cultures than any left-to-right bias.

Tim.

```
From -4525726392239497764
X-Google-Thread: 241b302a50,9fa8a6d9261ed168
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l13g2000yqb.googlegroups.com!not-for-
mail
From: AndyS <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Right-to-left schematics?
Date: Tue, 27 Oct 2009 14:56:21 -0700 (PDT)
Organization: http://groups.google.com
Lines: 11
Message-ID: <3f665798-61bd-418b-9000-7afb46be70f9@l13g2000yqb.googlegroups.com>
References: <R_GdnXLdacoWyHnXnZ2dnUVZ_judnZ2d@earthlink.com>
NNTP-Posting-Host: 66.19.113.166
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1256680581 25243 127.0.0.1 (27 Oct 2009 21:56:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Oct 2009 21:56:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l13g2000yqb.googlegroups.com; posting-host=66.19.113.166;
     posting-account=KFkOfwkAAACH2d-FARwTC0L3LBlWIhhp
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.20)
     Gecko/20081217 Firefox/2.0.0.20,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3190
```

Andy comments:

If left to right is good enough for the Koran , the Talmud, and the
Bible.....

.... it's good enough for my schematics.....

Who are we to go against God's chosen order ?

  Andy in Eureka, Texas   ..... with tongue in cheek....   :>))))

```
From -3056998354748845459
X-Google-Thread: 241b302a50,29e8389e3980d5b6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 04 Aug 2009 06:39:33 -0500
Date: Tue, 04 Aug 2009 12:39:32 +0100
From: highlandham <rfburns@nospam.com>
User-Agent: Thunderbird 2.0.0.19 (X11/20090424)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: home brew toroid winding machine
References: <h52smq$cna$1@news.eternal-september.org>
In-Reply-To: <h52smq$cna$1@news.eternal-september.org>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <XrGdnejllIFogOXXnZ2dnUVZ8h5i4p2d@pipex.net>
Lines: 19
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.111.53.207
X-Trace: sv3-c629UlCGWfjqUJsg7HoO8kJFh9Rf6AryEHzfvU16tRZ/
cyIw31TIU+rUiUeTYy0W67fD+w+MZaQ9N/X!
VxQtvFyyEB3Pg47F6rOfmv9QXjDN43wFaEKVykjZDNBjYGoL/3ip1vX8vsswwlJ0P40g/DEA8u4K!
k9nBA3oT5eAvTkT1CPCbhHpk/Q==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1904
Xref: g2news2.google.com rec.radio.amateur.homebrew:2988
```

Kenneth Scharf wrote:
> This has got to be one of the most original bits of home brew art I've
> ever seen!
>
> http://waterfuelcell.org/phpBB2/viewtopic.php?
t=1034&postdays=0&postorder=asc&&start=0
>
>
> Has anybody out there ever tried something like this? I wish I could
> figure out how to scale this down to wind smaller toroids.

```
>
> BTW there is a commercial toroid winder on ebay right now, starting bid
> is $99 that will wind most toroid sizes useful for ham projects.
=========================================
The above reference leads to a very interesting 'general electronics'
home brew site .

Thanks

Frank   GM0CSZ / KN6WH


From 7235684278528160283
X-Google-Thread: 241b302a50,7d522504c6b8b129
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns11feed!worldnet.att.net!199.45.49.37!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!3b5fc0bf!not-for-
mail
From: "Paul P" <REMOVE paul @ REMOVE ppinyot . REMOVEcom>
Newsgroups: rec.radio.amateur.homebrew
References: <8dzdm.9031$Kh7.8780@newsfe03.ams2>
In-Reply-To: <8dzdm.9031$Kh7.8780@newsfe03.ams2>
Subject: Re: So do you chaps
Lines: 18
Organization: www.ppinyot.com
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18005
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18005
Message-ID: <b2%dm.545$nh2.409@nwrddc02.gnilink.net>
Date: Tue, 04 Aug 2009 18:25:11 GMT
NNTP-Posting-Host: 96.236.156.213
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1249410311 96.236.156.213 (Tue, 04 Aug 2009 14:25:11
EDT)
NNTP-Posting-Date: Tue, 04 Aug 2009 14:25:11 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2989

This board is for those who enjoy the art of putting together electronic
things by hand.  BUT I can see (taste) the synergies :~)
I wish I was allow to drink, not religious reasons but docs orders :~(

Can you make/convert those recipes non alcoholic???
```

Paul P.

<helptheaged@oldies.com> wrote in message
news:8dzdm.9031$Kh7.8780@newsfe03.ams2...
> So you chaps enjoy siting round drinking brew's
> and listening to the radio all day?
> Its a good way to get through the 'so called' summer hollidays.
> I like uk radio 4, its a grand station. It has plays , book readings and
> radio documentaries, loads better than that strange 'beat' music I don't
> understand.
> Anyhow good on you chaps, you sit back have a brew and enjoy the radio.

From 4692711270130413504
X-Google-Thread: 241b302a50,7d522504c6b8b129
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!newspeer1.se.telia.net!se.telia.net!masternews.telia.net.!
newsb.telia.net.POSTED!not-for-mail
From: "Eddy Grant" <Eddy.Grant_NOSPAM@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <8dzdm.9031$Kh7.8780@newsfe03.ams2>
<b2%dm.545$nh2.409@nwrddc02.gnilink.net>
Subject: Re: So do you chaps
Lines: 36
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <y7jem.10702$U5.138504@newsb.telia.net>
Date: Wed, 05 Aug 2009 17:16:14 GMT
NNTP-Posting-Host: 81.227.200.9
X-Complaints-To: abuse@telia.com
X-Trace: newsb.telia.net 1249492574 81.227.200.9 (Wed, 05 Aug 2009 19:16:14 CEST)
NNTP-Posting-Date: Wed, 05 Aug 2009 19:16:14 CEST
Organization: Telia Internet
Xref: g2news2.google.com rec.radio.amateur.homebrew:2990

"Paul P" <REMOVE paul @ REMOVE ppinyot . REMOVEcom> wrote in message
news:b2%dm.545$nh2.409@nwrddc02.gnilink.net...
> This board is for those who enjoy the art of putting together electronic
> things by hand. BUT I can see (taste) the synergies :~)
> I wish I was allow to drink, not religious reasons but docs orders :~(
>
> Can you make/convert those recipes non alcoholic???
>
> Paul P.

Hi Paul,

> This board is for those who enjoy the art of putting together electronic
> things by hand.

So where foes the homebrewing come in?

> I wish I was allow to drink, not religious reasons but docs orders :~(
> Can you make/convert those recipes non alcoholic???

Not really, but a nice wine (12-15%) blended with soda water,
lemon and ice is very pleasant, especially by the pool on these
hot sunny days. The alcohol content is so low (4 - 6%) that
it is like taking a beer, but in smaller quantities.

Johan Binn Chardonay is quite strong in flavour, but only 8.5%
alcohol, which means the drink will have as much alcohol as a
very weak beer.

The tase, however, is like a sparkling wine. Best of both worlds?
Or is that still too much for your doctor?

Regards Eddie

From 8297131236223026672
X-Google-Thread: e721ae2bf6,b2affba7d77c43af,start
X-Google-Attributes: gide721ae2bf6,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed2.dallas1.level3.net!news.level3.com!bloom-beacon.mit.edu!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1246946700@panix.com>
Followup-To: poster
Date: 7 Aug 2009 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 09 Sep 2009 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1249625101@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1249625102 29881 166.84.1.2 (7 Aug 2009 06:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 7 Aug 2009 06:05:02 +0000 (UTC)

Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news2.google.com rec.radio.amateur.antenna:13446 rec.radio.amateur.dx:459 rec.radio.amateur.equipment:1695 rec.radio.amateur.homebrew:2991 rec.radio.amateur.misc:4420 rec.radio.amateur.policy:26570 rec.radio.info:888

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

From 1784864416261363206
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!newsfeed101.telia.com!nf02.dk.telia.net!newspeer1.se.telia.net!se.telia.net!masternews.telia.net.!newsb.telia.net.POSTED!not-for-mail
From: "Eddy Grant" <Eddy.Grant_NOSPAM@hotmail.com>

```
Newsgroups: rec.radio.amateur.homebrew
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
Subject: Re: best setup for vehicle to base communication seperated by 100 to 500
miles?
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <ea1fm.10717$U5.138539@newsb.telia.net>
Date: Fri, 07 Aug 2009 21:39:22 GMT
NNTP-Posting-Host: 81.227.200.9
X-Complaints-To: abuse@telia.com
X-Trace: newsb.telia.net 1249681162 81.227.200.9 (Fri, 07 Aug 2009 23:39:22 CEST)
NNTP-Posting-Date: Fri, 07 Aug 2009 23:39:22 CEST
Organization: Telia Internet
Xref: g2news2.google.com rec.radio.amateur.homebrew:2992

Carrier pidgeon is about the only reliable communication
method under those criteria.

<acannell@wwc.com> wrote in message
news:e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com...
> im an EE, but have never gotten into ham radio. Now, I have a reason!
> Im going off roading in the california desert, and I'd like to be able
> to communicate back home in San Diego. What band and equipment would
> be the best (for both base and mobile) in order to communicate
> reliably during the day? Or is this unreasonable?




From -5183967818300239865
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j9g2000prh.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100 to
     500 miles?
Date: Sat, 8 Aug 2009 18:28:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <40f3de66-b770-4aa0-a693-54cc8b3a538f@j9g2000prh.googlegroups.com>
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
     <ea1fm.10717$U5.138539@newsb.telia.net>
NNTP-Posting-Host: 76.226.217.126
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
```

```
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1249781296 26964 127.0.0.1 (9 Aug 2009 01:28:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 9 Aug 2009 01:28:16 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j9g2000prh.googlegroups.com; posting-host=76.226.217.126;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.8.1)
     Gecko/20061010 Firefox/2.0,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2993

Hey OM:

From one of my fav sources wiki pedia:
"Carrier pigeons historically carried messages only one way, to their
home."

So if you're mobile you can forget two way communication.
The pigeon sent from your base would never find you in your mobile.

73 OM
de n8zu




On Aug 8, 8:39 am, "Eddy Grant" <Eddy.Grant_NOS...@hotmail.com> wrote:
> Carrier pidgeon is about the only reliable communication
> method under those criteria.
>
> <acann...@wwc.com> wrote in message
>
> news:e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com...
>
> > im an EE, but have never gotten into ham radio. Now, I have a reason!
> > Im going off roading in the california desert, and I'd like to be able
> > to communicate back home in San Diego. What band and equipment would
> > be the best (for both base and mobile) in order to communicate
> > reliably during the day? Or is this unreasonable?







From 2404705739501103768
X-Google-Thread: 241b302a50,7d522504c6b8b129
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
```

188.40.43.213.MISMATCH!feeder.eternal-september.org!eternal-september.org!
hhhh.org!not-for-mail
From: Wim Lewis <wiml@hhhh.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: So do you chaps
Date: Sun, 9 Aug 2009 04:39:46 +0000 (UTC)
Organization: HHHH Underhill
Lines: 23
Message-ID: <h5ljui$guj$1@underhill.hhhh.org>
References: <8dzdm.9031$Kh7.8780@newsfe03.ams2>
<b2%dm.545$nh2.409@nwrddc02.gnilink.net> <y7jem.10702$U5.138504@newsb.telia.net>
X-Trace: underhill.hhhh.org 1249792786 17363 10.1.0.22 (9 Aug 2009 04:39:46 GMT)
X-Complaints-To: news@hhhh.org
X-Newsreader: trn 4.0-test76 (Apr 2, 2001)
Originator: wiml@underhill.hhhh.org (Wim Lewis)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2995

In article <y7jem.10702$U5.138504@newsb.telia.net>,
Eddy Grant <Eddy.Grant_NOSPAM@hotmail.com> wrote:
>"Paul P" <REMOVE paul @ REMOVE ppinyot . REMOVEcom> wrote in message
>news:b2%dm.545$nh2.409@nwrddc02.gnilink.net...
>> This board is for those who enjoy the art of putting together electronic
>> things by hand.
>
>So where foes the homebrewing come in?

It's metaphorical, I suppose. On the other hand, brewing beer appeals to me in much the same way that homebrew electronics does. I only have space for so many hobbies, though.

Anyway, if you're looking for the drinkable stuff, check out the rec.crafts.brewing group. I don't know how active it is, but a quick glance looks like there's some discussion going on.

There's also alt.beer.home-brewing, rec.crafts.distilling, rec.crafts.winemaking, and rec.crafts.meadmaking. Same caveats. :)

--
Wim Lewis <wiml@hhhh.org>, Seattle, WA, USA. PGP keyID 27F772C1
"We learn from history that we do not learn from history." -Hegel

From 17742120123029234
X-Google-Thread: 241b302a50,580f1195f2958a68,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l5g2000pra.googlegroups.com!not-for-mail
From: Stuart Longland <redhatter@gentoo.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Homebrew 2m (and maybe 70cm) linear (solid state, 20~30W)
Date: Sun, 9 Aug 2009 04:48:42 -0700 (PDT)

```
Organization: http://groups.google.com
Lines: 26
Message-ID: <32db5806-63a0-49f0-b481-e634fcc2adec@l5g2000pra.googlegroups.com>
NNTP-Posting-Host: 203.94.56.252
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1249818522 24100 127.0.0.1 (9 Aug 2009 11:48:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 9 Aug 2009 11:48:42 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l5g2000pra.googlegroups.com; posting-host=203.94.56.252;
	posting-account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
X-HTTP-Via: 1.1 www.longlandclan.yi.org (squid/3.0.STABLE14)
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux mips64; en-US; rv:1.9.0.11)
	Gecko/2009061212 Iceweasel/3.0.9 (Debian-3.0.9-1),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2996
```

[Previously sent to rec.radio.amateur.equipment by mistake... resent here]

Hi all,

I was wondering if anyone knew of a solid state 2m linear amp project that I could build. I'm looking for no more than about 30W. It'll be primarily used for FM, driven from my handheld radio. Bonus points if it can do 70cm too (or at least allow pass-through unattenuated...).

Most of the designs I've seen are for tubes with an output power in the KW-range... my radio license only allows me to transmit 30W FM or 100W SSB... so these are massive overkill (and not desirable for other reasons).

The only project I've seen that fits the bill so far is http://www.falara.org/tektalk/GPOAmp.html which calls for a PCB made with G10 stock. I have no idea where to obtain that here in Brisbane, I have some blank PCB, but have no idea what grade it is, or how much impact on performance using it would have. The MRF1946A is also difficult to source.

Does anyone know of a good project to start on this sort of thing?

Regards,
Stuart Longland (VK4MSL)

```
From -6840158608011750645
X-Google-Thread: 241b302a50,580f1195f2958a68
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
```

```
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 09 Aug 2009 07:58:29 -0500
Message-ID: <4A7EC7F4.6080104@bloomer.net>
Date: Sun, 09 Aug 2009 12:58:28 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.22 (Windows/20090605)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To: Stuart Longland <redhatter@gentoo.org>
Subject: Re: Homebrew 2m (and maybe 70cm) linear (solid state, 20~30W)
References: <32db5806-63a0-49f0-b481-e634fcc2adec@l5g2000pra.googlegroups.com>
In-Reply-To: <32db5806-63a0-49f0-b481-e634fcc2adec@l5g2000pra.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 50
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-NK4oG5KXOx+vN7qdU2KNpA/OhNyveFSv31wA+Hwtb/
WBWnnehwzkeIiISYyQy7TD9IWiR9d9xjG/nfX!
2MFPsj4iVa6spwD0tiPweu1EdrZZVp1YBaz5Jy8N+3BYK0gMRDN/EXTfIsEoNGy+IA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 3498
Xref: g2news2.google.com rec.radio.amateur.homebrew:2997
```

Stuart Longland wrote:

> [Previously sent to rec.radio.amateur.equipment by mistake... resent here]
>
> Hi all,
>
> I was wondering if anyone knew of a solid state 2m linear amp project that I could build. I'm looking for no more than about 30W. It'll be primarily used for FM, driven from my handheld radio. Bonus points if it can do 70cm too (or at least allow pass-through unattenuated...).
>
> Most of the designs I've seen are for tubes with an output power in the KW-range... my radio license only allows me to transmit 30W FM or 100W SSB... so these are massive overkill (and not desirable for other reasons).
>
> The only project I've seen that fits the bill so far is http://www.falara.org/tektalk/GPOAmp.html which calls for a PCB made with G10 stock. I have no idea where to obtain that here in Brisbane, I have some blank PCB, but have no idea what grade it is, or how much impact on performance using it would have. The MRF1946A is also difficult to source.
>
> Does anyone know of a good project to start on this sort of thing?
>

> Regards,
> Stuart Longland (VK4MSL)

You can homebrew a very simple amp that should meet your specifications...

A generic PC board can be found at http://www.rfparts.com/pcb.html and I would recommend part number DEM2330. There is a link to "View a pdf of the DEM2330 Instruction Sheet." You could build everything as they show in the instruction sheet (which is for a 1300 MHz amp) and just substitute the RF module with the Mitsubishi RA30H1317M module for 2M or the RA30H4045MR for 70cm. The data sheets for the modules are at http://www.rfparts.com/module_sau-sav.html#ra and there are also more module choices there. Both modules specify an input power of 50 mW maximum, so you would need an attenuator (pi type is easily done by cutting a break in the input lead on the circuit board and installing the correct resistors around the cut). If you have 1.5W from the HT, you would need about 16 dB of attenuation. You would need a pair of RF relays, one at the input and one at the output to route TX signals through the amp on TX and bypass around the amp during RX.

Good luck with the project!

73,
Scott
N0EDV

From -2179205705458785707
X-Google-Thread: 241b302a50,5cbf3383bd858dca,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!ecngs!feeder2.ecngs.de!feeder.erje.net!feeder.eternal-september.org!eternal-september.org!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Need data sheet for 811 tube
Date: Sun, 09 Aug 2009 13:07:09 -0400
Organization: A noiseless patient Spider
Lines: 5
Message-ID: <h5n059$p73$1@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.eternal-september.org U2FsdGVkX1/scefmSB7Ad+3cAwJapSLUXtD1XV2gwLR7+p6qtR5tp9q87KzjJBIFFbaziAtOJqTAZpUnYU8FpmqRBLonByqN31DaUjpC8GegddEUQEgnmCQjHEOvGuiNvYoP5/fS2Lz6iBQGIQfM/+eunwyVtnXA
X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Sun, 9 Aug 2009 17:14:17 +0000 (UTC)
X-Auth-Sender: U2FsdGVkX19dMARiDeCW3U6ksikQqeiHbrvAmoHGQ8PogkFbW+xTdw==
Cancel-Lock: sha1:JDB1Z4MtHEV5M/b9NrOIJaKjjHs=
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)

Xref: g2news2.google.com rec.radio.amateur.homebrew:2998

Does anybody have a link to a scan of an old data sheet for the 811 (NOT
811A) tube? All I seem to find are 811A spec's. I have the two line
blub on the older 811 in an old ARRL HB, but I'd like to get the
complete spec sheet. This tube existed in the gap between the TT3 and
TT4 tube manuals so I can't find it.

From 3633246977655470049
X-Google-Language: ENGLISH,ASCII-7-bit
Reply-To: "C.Tuinder" <ctuinder@hotmail.com>
From: "C.Tuinder" <ctuinder@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <h5n059$p73$1@news.eternal-september.org>
Subject: Re: Need data sheet for 811 tube
Date: Sun, 9 Aug 2009 23:17:27 +0200
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1933
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1933
NNTP-Posting-Host: $$_fwjll_psdvs.news.x-privat.org
Message-ID: <4a7f3cce@news.x-privat.org>
Organization: X-Privat.Org NNTP Server - http://www.x-privat.org
X-Authenticated-User: $$g8ew8pncsvjdod7n$mxc
X-Complaints-To: abuse@x-privat.org
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!feeder.news-service.com!xlned.com!feeder1.xlned.com!news-out1.kabelfoon.nl!newsfeed.kabelfoon.nl!bandi.nntp.kabelfoon.nl!x-privat.org!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:2999

"Kenneth Scharf" <wa2mze@bellsouth.net> schreef in bericht
news:h5n059$p73$1@news.eternal-september.org...
> Does anybody have a link to a scan of an old data sheet for the 811 (NOT
> 811A) tube? All I seem to find are 811A spec's. I have the two line
> blub on the older 811 in an old ARRL HB, but I'd like to get the
> complete spec sheet. This tube existed in the gap between the TT3 and
> TT4 tube manuals so I can't find it.

Here we go:
http://sarris.info/main/files/SV811-10.pdf

Regards and 73

Carel
PA3DZI / OM

From -8035581292546440625

```
X-Google-Thread: 241b302a50,580f1195f2958a68
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!a39g2000pre.googlegroups.com!not-for-
mail
From: Stuart Longland <redhatter@gentoo.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew 2m (and maybe 70cm) linear (solid state, 20~30W)
Date: Sun, 9 Aug 2009 15:26:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 34
Message-ID: <8b0a7423-edb8-424b-a31f-50821bdf80ac@a39g2000pre.googlegroups.com>
References: <32db5806-63a0-49f0-b481-e634fcc2adec@l5g2000pra.googlegroups.com>
     <4A7EC7F4.6080104@bloomer.net>
NNTP-Posting-Host: 203.94.56.252
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1249856807 25868 127.0.0.1 (9 Aug 2009 22:26:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 9 Aug 2009 22:26:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a39g2000pre.googlegroups.com; posting-host=203.94.56.252;
     posting-account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
X-HTTP-Via: 1.1 www.longlandclan.yi.org (squid/3.0.STABLE14)
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux mips64; en-US; rv:1.9.0.11)
     Gecko/2009061212 Iceweasel/3.0.9 (Debian-3.0.9-1),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3000

On Aug 9, 10:58=A0pm, Scott <acepilotREM...@bloomer.net> wrote:
> You can homebrew a very simple amp that should meet your specifications..=
.
>
> A generic PC board can be found athttp://www.rfparts.com/pcb.html
> and I would recommend part number DEM2330. =A0There is a link to "View a
> pdf of the DEM2330 Instruction Sheet." =A0You could build everything as
> they show in the instruction sheet (which is for a 1300 MHz amp) and
> just substitute the RF module with the Mitsubishi RA30H1317M module for
> 2M or the RA30H4045MR for 70cm. =A0The data sheets for the modules are at=
http://www.rfparts.com/module_sau-sav.html#raand there are also more
> module choices there.

Ahh right... I had a look around, looks like Minikits[1] sell the
power modules (and even a PCB).  This looks promising.

> =A0Both modules specify an input power of 50 mW
> maximum, so you would need an attenuator (pi type is easily done by
> cutting a break in the input lead on the circuit board and installing
> the correct resistors around the cut). =A0If you have 1.5W from the HT,
> you would need about 16 dB of attenuation.
```

The handheld can be wound right back to 50mW when running off
batteries... otherwise 0.5W. A pi network isn't hard though. That
said... I won't make the mistake I made last time -- last time I tried
making it with 5W wire wound resistors... and wondered why it didn't
work.

I shall do some further investigation.

Thanks.

Stuart Longland VK4MSL
1. http://www.minikits.com.au/kits2.html

From 1053236617380449351
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news.unit0.net!
feeder.eternal-september.org!eternal-september.org!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need data sheet for 811 tube
Date: Sun, 09 Aug 2009 18:46:17 -0400
Organization: A noiseless patient Spider
Lines: 25
Message-ID: <h5nk18$lf5$1@news.eternal-september.org>
References: <h5n059$p73$1@news.eternal-september.org> <4a7f3cce@news.x-privat.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.eternal-september.org
U2FsdGVkX19VU2W1RgfOGUGqAAf27CdDEmGR21vgy3GSZWrpDI5RoweWAM9sneahHfcluEjEPFzed8QtSG
oGmQXYrcrbfpQbNp3I1G6hgjtwnYQD44r0jRH993+TEvmpdwX7PyWoMOmmkHCWkSxLgoUDtD6ofDoO
X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Sun, 9 Aug 2009 22:53:28 +0000 (UTC)
In-Reply-To: <4a7f3cce@news.x-privat.org>
X-Auth-Sender: U2FsdGVkX192khybSvr+pMlKDtGebmA2AaylioZLNQYSfbL8QxneVQ==
Cancel-Lock: sha1:ot5hiYWf8ZTenQQPs3ifToMuiAk=
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3001

C.Tuinder wrote:
> "Kenneth Scharf" <wa2mze@bellsouth.net> schreef in bericht
> news:h5n059$p73$1@news.eternal-september.org...
>> Does anybody have a link to a scan of an old data sheet for the 811 (NOT
>> 811A) tube? All I seem to find are 811A spec's. I have the two line
>> blub on the older 811 in an old ARRL HB, but I'd like to get the
>> complete spec sheet. This tube existed in the gap between the TT3 and
>> TT4 tube manuals so I can't find it.
>
> Here we go:
> http://sarris.info/main/files/SV811-10.pdf
>
> Regards and 73

>
> Carel
> PA3DZI / OM
>
>
Thanks, but that's NOT it.
   This link goes to the Svetlana sv811-10 which is NOT the same as the
ORIGINAL RCA 811 transmitting tube. Svetlana had no right to call this
bottle an 811 as it does NOT have the plate cap, is NOT a transmitting
tube, and has a mu of 10 not 160!
This is a nice AUDIO tube, more of a replacement for the 300B than an 811!

From 1368860519722039918
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!novso.com!newspeer1.se.telia.net!se.telia.net!masternews.telia.net.!newsb.telia.net.POSTED!not-for-mail
From: "Eddy Grant" <Eddy.Grant_NOSPAM@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <8dzdm.9031$Kh7.8780@newsfe03.ams2>
<b2%dm.545$nh2.409@nwrddc02.gnilink.net> <y7jem.10702$U5.138504@newsb.telia.net>
<h5ljui$guj$1@underhill.hhhh.org>
Subject: Re: So do you chaps
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <oHPfm.10750$U5.138567@newsb.telia.net>
Date: Mon, 10 Aug 2009 07:08:04 GMT
NNTP-Posting-Host: 81.227.200.9
X-Complaints-To: abuse@telia.com
X-Trace: newsb.telia.net 1249888084 81.227.200.9 (Mon, 10 Aug 2009 09:08:04 CEST)
NNTP-Posting-Date: Mon, 10 Aug 2009 09:08:04 CEST
Organization: Telia Internet
Xref: g2news2.google.com rec.radio.amateur.homebrew:3002

>>So where foes the homebrewing come in?
>
> It's metaphorical, I suppose. On the other hand, brewing beer appeals to
> me in much the same way that homebrew electronics does. I only have space
> for so many hobbies, though.

Many thanks, I shall subscribe to it. I understand what you
mean. A bit misleading though. Hope you enjoy your homebrew
electronics.

```
From 7716836647884591248
X-Google-Thread: 241b302a50,5cbf3383bd858dca
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!e4g2000vbe.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need data sheet for 811 tube
Date: Mon, 10 Aug 2009 08:33:59 -0700 (PDT)
Organization: http://groups.google.com
Lines: 12
Message-ID: <d2924bc9-f9dd-4d6c-bda7-b3a03c3303a9@e4g2000vbe.googlegroups.com>
References: <h5n059$p73$1@news.eternal-september.org>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1249918439 29728 127.0.0.1 (10 Aug 2009 15:33:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 10 Aug 2009 15:33:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e4g2000vbe.googlegroups.com; posting-host=170.121.14.12;
	posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB6;
	.NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3003
```

On Aug 9, 1:07=A0pm, Kenneth Scharf <wa2...@bellsouth.net> wrote:
> Does anybody have a link to a scan of an old data sheet for the 811 (NOT
> 811A) tube? =A0All I seem to find are 811A spec's. =A0I have the two line
> blub on the older 811 in an old ARRL HB, but I'd like to get the
> complete spec sheet. =A0This tube existed in the gap between the TT3 and
> TT4 tube manuals so I can't find it.

I don't know where to find the datasheet for the 811-non-A, but I did
want to step in and point out that TT3 has the BEST TUBE PORN EVER!.
That picture of the 833 gets me all excited, even today.

Tim.

```
From 1817982555504528832
X-Google-Thread: 241b302a50,5cbf3383bd858dca
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!m20g2000vbp.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
```

```
Subject: Re: Need data sheet for 811 tube
Date: Mon, 10 Aug 2009 09:04:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <368c3437-a52d-4e7a-86fa-4a0c70a8607e@m20g2000vbp.googlegroups.com>
References: <h5n059$p73$1@news.eternal-september.org> <4a7f3cce@news.x-privat.org>
     <h5nk18$lf5$1@news.eternal-september.org>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1249920267 17600 127.0.0.1 (10 Aug 2009 16:04:27 GMT)
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NNTP-Posting-Date: Mon, 10 Aug 2009 16:04:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m20g2000vbp.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB6;
     .NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3004

On Aug 9, 6:46=A0pm, Kenneth Scharf <wa2...@bellsouth.net> wrote:
> =A0 =A0This link goes to the Svetlana sv811-10 which is NOT the same as t=
he
> ORIGINAL RCA 811 transmitting tube. =A0Svetlana had no right to call this
> bottle an 811 as it does NOT have the plate cap, is NOT a transmitting
> tube, and has a mu of 10 not 160!
> This is a nice AUDIO tube, more of a replacement for the 300B than an 811=
!

Actually, the 811 was sold by RCA as the "audio tube"; they sold the
similar but not identical 812 as the RF tube. The beauty of the 811 as
a push-pull class B modulator is the low parts count and you don't
need any bias supply.

It was only in the 1950's with the advent of SSB that the simplicity
and excellent characteristics of the zero bias triode became clear in
RF linear amplifier service. Before that everyone ran all their RF
stages in class C for efficiency. It was the 30L1 in 1960, and some
hams experimenting with zero bias in the 50's, that placed the 811A in
the RF tube category. RCA of course was more than happy to sell the
tubes for whatever purpose :-).

Oh, here's a 811 (non-A) datasheet from HB3:
http://www.pmillett.com/tubedata/HB-3/Transmitting_Tubes/811.pdf

Good reading that mentions 811 marketing, and the advent of zero bias
triodes for SSB linears, is in the 1996 QST article: "811A:
Grandfather of the zero bias revolution". It notes that the main
difference between the 811A and the non-A, was the addition of extra
fin area in the 811A to boost dissipation.
```

Tim.

From -4949241124319372887
X-Google-Thread: 241b302a50,580f1195f2958a68
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!usenet-fr.net!de-l.enfer-du-nord.net!tudelft.nl!txtfeed1.tudelft.nl!multikabel.net!newsfeed20.multikabel.net!news2.euro.net!newsgate.cistron.nl!newsgate.news.xs4all.nl!194.109.133.85.MISMATCH!newsfeed.xs4all.nl!newsfeed6.news.xs4all.nl!xs4all!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Homebrew 2m (and maybe 70cm) linear (solid state, 20~30W)
References: <32db5806-63a0-49f0-b481-e634fcc2adec@l5g2000pra.googlegroups.com>
 <4A7EC7F4.6080104@bloomer.net>
 <8b0a7423-edb8-424b-a31f-50821bdf80ac@a39g2000pre.googlegroups.com>
User-Agent: slrn/pre0.9.9-102 (FreeBSD)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrnh80jd3.2pl2.nomail@xs7.xs4all.nl>
Date: 10 Aug 2009 16:41:08 GMT
Lines: 28
NNTP-Posting-Host: 194.109.21.7
X-Trace: 1249922468 news.xs4all.nl 193 [::ffff:194.109.21.7]:55330
X-Complaints-To: abuse@xs4all.nl
Xref: g2news2.google.com rec.radio.amateur.homebrew:3005

Stuart Longland <redhatter@gentoo.org> wrote:
> Ahh right... I had a look around, looks like Minikits[1] sell the
> power modules (and even a PCB). This looks promising.

Maybe with some more searching you can find PCBs that include the tx/rx
switching, preferably with PIN diodes. That will save you a lot of
money and construction effort.
(with a bare amplifier PCB as shown on that site, you will need relays
and a circuit to drive them when transmitting, in addition to the
amplifier PCB)

> The handheld can be wound right back to 50mW when running off
> batteries... otherwise 0.5W. A pi network isn't hard though. That
> said... I won't make the mistake I made last time -- last time I tried
> making it with 5W wire wound resistors... and wondered why it didn't
> work.

It is better not to rely solely on lowpower settings of the handheld,
as sooner or later you'll forget to set it to lowpower, it will drive
5W into the module, and destroy it.
So it is best to have some attenuation in front of the module, such that
it will survive accidental input of the full power of the handheld.

You can then still use lower power in normal use, so the handheld will not run too hot. Find the maximum allowable input power for the module and design the pi network so it will attenuate the highest output power of the handheld sufficiently. Then calculate the nominal power to the module (for driving it to e.g. 90% of its max output) and use the handheld at that power level.   That could be 0.5 W or so.

```
From -6952807343088163048
X-Google-Thread: 241b302a50,580f1195f2958a68
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X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx01.iad01.newshosting.com!
newshosting.com!216.196.98.140.MISMATCH!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 10 Aug 2009 17:13:17 -0500
From: Robert Cherry <Robert.Cherry.4c650e6@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew 2m (and maybe 70cm) linear (solid state, 20~30W)
Date: Mon, 10 Aug 2009 21:48:27 +0100
Message-ID: <Robert.Cherry.4c650e6@radiobanter.com>
Organization: RadioBanter.com
References:  <32db5806-63a0-49f0-b481-e634fcc2adec@l5g2000pra.googlegroups.com>
Lines: 48
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X-Trace: sv3-qFzwjR/zTKSEZeyabzoBPUti7DET2l5MESysFeMM1TRkHyzOC7VVrt/
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wNaW37r452Zt
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Lines: 36
X-Original-Bytes: 2759
Xref: g2news2.google.com rec.radio.amateur.homebrew:3006
```

Stuart Longland;685473 Wrote:

> [Previously sent to rec.radio.amateur.equipment by mistake... resent
> here]
>
> Hi all,
>
> I was wondering if anyone knew of a solid state 2m linear amp project
> that I could build. I'm looking for no more than about 30W. It'll be
> primarily used for FM, driven from my handheld radio. Bonus points if
> it can do 70cm too (or at least allow pass-through unattenuated...).
>

> Most of the designs I've seen are for tubes with an output power in
> the KW-range... my radio license only allows me to transmit 30W FM or
> 100W SSB... so these are massive overkill (and not desirable for other
> reasons).
>
> The only project I've seen that fits the bill so far is
> http://www.falara.org/tektalk/GPOAmp.html which calls for a PCB made
> with G10 stock. I have no idea where to obtain that here in Brisbane,
> I have some blank PCB, but have no idea what grade it is, or how much
> impact on performance using it would have. The MRF1946A is also
> difficult to source.
>
> Does anyone know of a good project to start on this sort of thing?
>
> Regards,
> Stuart Longland (VK4MSL)

Stuart,

Unless you absolutely want the experience of building, you may (I don't know the situation in Australia) be able to find a used mobile 2m or 2m/70cm tranceiver for a reasonable price. My used Yaesu FT-2800M cost me 100 Canadian dollars. I had been thinking of buying an amp for my HT but discovered it is easier to simply buy a transceiver that gives me 25 watts along with 3 other power choices.

I hope the suggestion helps.

Robert VE2AGE
Gatineau, Quebec
Canada

--
Robert Cherry

```
From 1834790391019546680
X-Google-Thread: 241b302a50,580f1195f2958a68
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!tr22g12.aset.psu.edu!not-for-mail
From: "Bob Spooner" <rls19@psu.edu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew 2m (and maybe 70cm) linear (solid state, 20~30W)
Date: Tue, 11 Aug 2009 10:01:51 -0400
Organization: Penn State University, Academic Services and Emerging Technology
Lines: 59
Message-ID: <h5rtkf$ec56$1@tr22n12.aset.psu.edu>
```

References: <32db5806-63a0-49f0-b481-e634fcc2adec@l5g2000pra.googlegroups.com>
<Robert.Cherry.4c650e6@radiobanter.com>
NNTP-Posting-Host: nat1.arl.psu.edu
X-Trace: tr22n12.aset.psu.edu 1249999311 471206 128.118.40.76 (11 Aug 2009
14:01:51 GMT)
X-Complaints-To: usenet@tr22n12.aset.psu.edu
NNTP-Posting-Date: Tue, 11 Aug 2009 14:01:51 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Xref: g2news2.google.com rec.radio.amateur.homebrew:3007

"Robert Cherry" <Robert.Cherry.4c650e6@radiobanter.com> wrote in message
news:Robert.Cherry.4c650e6@radiobanter.com...
>
> Stuart Longland;685473 Wrote:
>> [Previously sent to rec.radio.amateur.equipment by mistake... resent
>> here]
>>
>> Hi all,
>>
>> I was wondering if anyone knew of a solid state 2m linear amp project
>> that I could build. I'm looking for no more than about 30W. It'll be
>> primarily used for FM, driven from my handheld radio. Bonus points if
>> it can do 70cm too (or at least allow pass-through unattenuated...).
>>
>> Most of the designs I've seen are for tubes with an output power in
>> the KW-range... my radio license only allows me to transmit 30W FM or
>> 100W SSB... so these are massive overkill (and not desirable for other
>> reasons).
>>
>> The only project I've seen that fits the bill so far is
>> http://www.falara.org/tektalk/GPOAmp.html which calls for a PCB made
>> with G10 stock. I have no idea where to obtain that here in Brisbane,
>> I have some blank PCB, but have no idea what grade it is, or how much
>> impact on performance using it would have. The MRF1946A is also
>> difficult to source.
>>
>> Does anyone know of a good project to start on this sort of thing?
>>
>> Regards,
>> Stuart Longland (VK4MSL)
>
> Stuart,
>
> Unless you absolutely want the experience of building, you may (I don't
> know the situation in Australia) be able to find a used mobile 2m or
> 2m/70cm tranceiver for a reasonable price. My used Yaesu FT-2800M cost
> me 100 Canadian dollars. I had been thinking of buying an amp for my HT
> but discovered it is easier to simply buy a transceiver that gives me 25
> watts along with 3 other power choices.

>
> I hope the suggestion helps.
>
> Robert VE2AGE
> Gatineau, Quebec
> Canada
>
>
>
>
> --
> Robert Cherry

Yes, and the transceiver will give you an additional advantage over your handheld - better dynamic range on receive because the filtering is better because there's more space for good filters.
73,
Bob AD3K

```
From -2014931864225882684
X-Google-Thread: 241b302a50,580f1195f2958a68
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx01.iad01.newshosting.com!
newshosting.com!216.196.98.140.MISMATCH!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 11 Aug 2009 11:22:11 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Homebrew 2m (and maybe 70cm) linear (solid state, 20~30W)
Newsgroups: rec.radio.amateur.homebrew
References: <32db5806-63a0-49f0-b481-e634fcc2adec@l5g2000pra.googlegroups.com>
     <Robert.Cherry.4c650e6@radiobanter.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <B7ednZd_vPUuBxzXnZ2dnUVZ_oti4p2d@web-ster.com>
Date: Tue, 11 Aug 2009 11:22:11 -0500
Lines: 49
X-Usenet-Provider: http://www.giganews.com
X-Trace:
sv3-4N8JDo2hxQBqxW3QZdEhzYEMuqZGbHKpdy3yhDPXPNLetLtspiELruYjg3LQPEyGNfTOW6gjqI5TO7
M!AWzCMSa1wjW2QUJUqJb6w5UuWjvyXSk0vMxqwYEmdHme++DZVbjDiVmLBRmApzWnuOUMTcJ4YvBG!6+
+1F7xLTva/OJU=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

X-Postfilter: 1.3.39
X-Original-Bytes: 2957
Xref: g2news2.google.com rec.radio.amateur.homebrew:3008

On Mon, 10 Aug 2009 21:48:27 +0100, Robert Cherry wrote:

> Stuart Longland;685473 Wrote:
>> [Previously sent to rec.radio.amateur.equipment by mistake... resent
>> here]
>>
>> Hi all,
>>
>> I was wondering if anyone knew of a solid state 2m linear amp project
>> that I could build. I'm looking for no more than about 30W. It'll be
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>>
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>>
>> Does anyone know of a good project to start on this sort of thing?
>>
>> Regards,
>> Stuart Longland (VK4MSL)
>
> Stuart,
>
> Unless you absolutely want the experience of building, you may (I don't
> know the situation in Australia) be able to find a used mobile 2m or
> 2m/70cm tranceiver for a reasonable price. My used Yaesu FT-2800M cost
> me 100 Canadian dollars. I had been thinking of buying an amp for my HT
> but discovered it is easier to simply buy a transceiver that gives me 25
> watts along with 3 other power choices.
>
> I hope the suggestion helps.
>
> Robert VE2AGE
> Gatineau, Quebec
> Canada

Oh how boring (correct, but boring).

--
www.wescottdesign.com

```
From -3383558750741453840
X-Google-Thread: 241b302a50,580f1195f2958a68
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 11 Aug 2009 11:24:07 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Homebrew 2m (and maybe 70cm) linear (solid state, 20~30W)
Newsgroups: rec.radio.amateur.homebrew
References: <32db5806-63a0-49f0-b481-e634fcc2adec@l5g2000pra.googlegroups.com>
     <4A7EC7F4.6080104@bloomer.net>
     <8b0a7423-edb8-424b-a31f-50821bdf80ac@a39g2000pre.googlegroups.com>
     <slrnh80jd3.2pl2.nomail@xs7.xs4all.nl>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <B7ednZZ_vPW6BhzXnZ2dnUVZ_ov_fwAA@web-ster.com>
Date: Tue, 11 Aug 2009 11:24:07 -0500
Lines: 41
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-ARcDKWnOVA8QyDVoEn++gZwEzi2llfXQGXMLJpA33brn1q9NhYuR4X/
l2Pbttrp0TZg5lQkw/HmuAza!U1GhrhBdCj8lz0CJNLoQkccpDW9mQuSSVgGFfkIWnpk/
OdI+uz1bo49OIaI/76F+Z+Z0ymb1ipEu!X9DTZszt69pMrT4=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 3246
Xref: g2news2.google.com rec.radio.amateur.homebrew:3009
```

On Mon, 10 Aug 2009 16:41:08 +0000, Rob wrote:

> Stuart Longland <redhatter@gentoo.org> wrote:
>> Ahh right... I had a look around, looks like Minikits[1] sell the power
>> modules (and even a PCB). This looks promising.
>
> Maybe with some more searching you can find PCBs that include the tx/rx
> switching, preferably with PIN diodes. That will save you a lot of
> money and construction effort.
> (with a bare amplifier PCB as shown on that site, you will need relays
> and a circuit to drive them when transmitting, in addition to the
> amplifier PCB)
>
>> The handheld can be wound right back to 50mW when running off
>> batteries... otherwise 0.5W. A pi network isn't hard though. That
>> said... I won't make the mistake I made last time -- last time I tried
>> making it with 5W wire wound resistors... and wondered why it didn't

>> work.
>
> It is better not to rely solely on lowpower settings of the handheld, as
> sooner or later you'll forget to set it to lowpower, it will drive 5W
> into the module, and destroy it.
> So it is best to have some attenuation in front of the module, such that
> it will survive accidental input of the full power of the handheld. You
> can then still use lower power in normal use, so the handheld will not
> run too hot. Find the maximum allowable input power for the module and
> design the pi network so it will attenuate the highest output power of
> the handheld sufficiently. Then calculate the nominal power to the
> module (for driving it to e.g. 90% of its max output) and use the
> handheld at that power level.   That could be 0.5 W or so.

If one were very clever one may be able to make the last leg of the
attenuator a pair of back-to-back diodes that would clip at a moderately
low level, protecting the module while still allowing it to work when you
_do_ set the radio to low power.

I'd have to work through the details to see if it's feasible, but it sure
sounds cool.

--
www.wescottdesign.com

From -6808970106988232747
X-Google-Thread: 241b302a50,580f1195f2958a68
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!
newsfeed101.telia.com!nf02.dk.telia.net!news.tele.dk!news.tele.dk!
small.news.tele.dk!newsgate.cistron.nl!newsgate.news.xs4all.nl!
post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Rob <nomail@example.com>
Subject: Re: Homebrew 2m (and maybe 70cm) linear (solid state, 20~30W)
References: <32db5806-63a0-49f0-b481-e634fcc2adec@l5g2000pra.googlegroups.com>
 <4A7EC7F4.6080104@bloomer.net>
 <8b0a7423-edb8-424b-a31f-50821bdf80ac@a39g2000pre.googlegroups.com>
 <slrnh80jd3.2pl2.nomail@xs7.xs4all.nl>
 <B7ednZZ_vPW6BhzXnZ2dnUVZ_ov_fwAA@web-ster.com>
User-Agent: slrn/pre0.9.9-102 (FreeBSD)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrnh83jo8.pnj.nomail@xs7.xs4all.nl>
Date: 11 Aug 2009 20:05:28 GMT
Lines: 9
NNTP-Posting-Host: 194.109.21.7
X-Trace: 1250021128 news.xs4all.nl 200 [::ffff:194.109.21.7]:59921
X-Complaints-To: abuse@xs4all.nl

Xref: g2news2.google.com rec.radio.amateur.homebrew:3010

Tim Wescott <tim@seemywebsite.com> wrote:
> If one were very clever one may be able to make the last leg of the
> attenuator a pair of back-to-back diodes that would clip at a moderately
> low level, protecting the module while still allowing it to work when you
> _do_ set the radio to low power.

I don't think it is a good idea to have a signal clipped by diodes,
then amplified by a wideband amplifier and fed into a transmitting antenna.
But hey, to each his likings!

From 7986906285891054063
X-Google-Thread: 241b302a50,580f1195f2958a68
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 12 Aug 2009 06:14:36 -0500
Date: Wed, 12 Aug 2009 11:14:36 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.22 (Windows/20090605)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew 2m (and maybe 70cm) linear (solid state, 20~30W)
References: <32db5806-63a0-49f0-b481-e634fcc2adec@l5g2000pra.googlegroups.com>
<4A7EC7F4.6080104@bloomer.net> <8b0a7423-edb8-424b-
a31f-50821bdf80ac@a39g2000pre.googlegroups.com>
<slrnh80jd3.2pl2.nomail@xs7.xs4all.nl> <B7ednZZ_vPW6BhzXnZ2dnUVZ_ov_fwAA@web-
ster.com>
In-Reply-To: <B7ednZZ_vPW6BhzXnZ2dnUVZ_ov_fwAA@web-ster.com>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <rvOdnTEL54iBOR_XnZ2dnUVZ_qZi4p2d@bright.net>
Lines: 16
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-Rfo8kMOQHbbETNCm92BJ20773maJ8Y58w1SKkH5Y01t/
1KNtMs2ncZ7Z8sk5pIpIKwyNvz+Ubk+lmXU!
Q+Fjmx302cKZxnciiRtqOk372oSm6uhNlep2DrsdAmVrbeJBQTbdtIv8FpWcASYsMAsiUm9a84m2!
RSMmrlOWdw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1865
Xref: g2news2.google.com rec.radio.amateur.homebrew:3011

Tim Wescott wrote:

>
> If one were very clever one may be able to make the last leg of the
> attenuator a pair of back-to-back diodes that would clip at a moderately
> low level, protecting the module while still allowing it to work when you
> _do_ set the radio to low power.
>
> I'd have to work through the details to see if it's feasible, but it sure
> sounds cool.
>

You mean like a pin diode attenuator controlled by a sort of ALC? ;)

Scott
N0EDV

From -102006183436298149
X-Google-Thread: 241b302a50,580f1195f2958a68
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 12 Aug 2009 06:15:33 -0500
Date: Wed, 12 Aug 2009 11:15:33 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.22 (Windows/20090605)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew 2m (and maybe 70cm) linear (solid state, 20~30W)
References: <32db5806-63a0-49f0-b481-e634fcc2adec@l5g2000pra.googlegroups.com>
<4A7EC7F4.6080104@bloomer.net> <8b0a7423-edb8-424b-
a31f-50821bdf80ac@a39g2000pre.googlegroups.com>
<slrnh80jd3.2pl2.nomail@xs7.xs4all.nl> <B7ednZZ_vPW6BhzXnZ2dnUVZ_ov_fwAA@web-
ster.com> <slrnh83jo8.pnj.nomail@xs7.xs4all.nl>
In-Reply-To: <slrnh83jo8.pnj.nomail@xs7.xs4all.nl>
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Content-Transfer-Encoding: 7bit
Message-ID: <rvOdnTAL54jIOR_XnZ2dnUVZ_qZi4p2d@bright.net>
Lines: 12
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NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-q8FyzMMpf0L0SAF/OzN7/
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G4uaZjX/5kAZSt9G8hqLJ5qi76Ywkju0B5hl+tNi1cXYrR2p4PYLIbo!42q6QnFtCw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1983
Xref: g2news2.google.com rec.radio.amateur.homebrew:3012

```
Rob wrote:
> Tim Wescott <tim@seemywebsite.com> wrote:
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>
> I don't think it is a good idea to have a signal clipped by diodes,
> then amplified by a wideband amplifier and fed into a transmitting antenna.
> But hey, to each his likings!

...And wallet size if FCC attention is grabbed ;)


From 686477363226921089
X-Google-Thread: 241b302a50,5cbf3383bd858dca
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!f37g2000yqn.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need data sheet for 811 tube
Date: Wed, 12 Aug 2009 12:26:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 39
Message-ID: <344f3527-8788-47a8-b400-71dfc14b3262@f37g2000yqn.googlegroups.com>
References: <h5n059$p73$1@news.eternal-september.org> <4a7f3cce@news.x-privat.org>
     <h5nk18$lf5$1@news.eternal-september.org> <368c3437-
a52d-4e7a-86fa-4a0c70a8607e@m20g2000vbp.googlegroups.com>
NNTP-Posting-Host: 75.191.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1250105188 7856 127.0.0.1 (12 Aug 2009 19:26:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 12 Aug 2009 19:26:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f37g2000yqn.googlegroups.com; posting-host=75.191.176.71;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; FunWebProducts; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET
     CLR 3.5.30729; WinNT-PAI 05.07.2009),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3013

On Aug 10, 12:04=A0pm, Tim Shoppa <sho...@trailing-edge.com> wrote:
> On Aug 9, 6:46=A0pm, Kenneth Scharf <wa2...@bellsouth.net> wrote:
>
> > =A0 =A0This link goes to the Svetlana sv811-10 which is NOT the same as=
 the
```

```
> > ORIGINAL RCA 811 transmitting tube. =A0Svetlana had no right to call th=
is
> > bottle an 811 as it does NOT have the plate cap, is NOT a transmitting
> > tube, and has a mu of 10 not 160!
> > This is a nice AUDIO tube, more of a replacement for the 300B than an 8=
11!
>
> Actually, the 811 was sold by RCA as the "audio tube"; they sold the
> similar but not identical 812 as the RF tube. The beauty of the 811 as
> a push-pull class B modulator is the low parts count and you don't
> need any bias supply.
>
> It was only in the 1950's with the advent of SSB that the simplicity
> and excellent characteristics of the zero bias triode became clear in
> RF linear amplifier service. Before that everyone ran all their RF
> stages in class C for efficiency. It was the 30L1 in 1960, and some
> hams experimenting with zero bias in the 50's, that placed the 811A in
> the RF tube category. RCA of course was more than happy to sell the
> tubes for whatever purpose :-).
>
> Oh, here's a 811 (non-A) datasheet from HB3:http://www.pmillett.com/tubed=
ata/HB-3/Transmitting_Tubes/811.pdf
>
> Good reading that mentions 811 marketing, and the advent of zero bias
> triodes for SSB linears, is in the 1996 QST article: "811A:
> Grandfather of the zero bias revolution". It notes that the main
> difference between the 811A and the non-A, was the addition of extra
> fin area in the 811A to boost dissipation.
>
> Tim.

pmillet has a lot of old tube books for free download

Jimmie


From -4881628964234885162
X-Google-Thread: 241b302a50,7d522504c6b8b129
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
From: "kb9rqz" <kb9rqz@puncegotcha.com>
Newsgroups: rec.radio.amateur.homebrew
References: <8dzdm.9031$Kh7.8780@newsfe03.ams2>
Subject: Re: So do you chaps
Date: Thu, 13 Aug 2009 10:13:22 -0400
Lines: 13
Organization: one punce over teh line
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
```

```
NNTP-Posting-Host: $$5jnnqhingh7l64.newsfeed.x-privat.org
Message-ID: <4a841f9b@x-privat.org>
X-Authenticated-User: $$q3_o_tx91q7xfh$rfsj2gd6
X-Complaints-To: abuse@x-privat.org
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!feeder.ecngs.de!
ecngs!feeder2.ecngs.de!88.198.40.140.MISMATCH!weretis.net!
feeder2.news.weretis.net!newsfeed.datemas.de!x-privat.org!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:3014


<helptheaged@oldies.com> wrote in message
news:8dzdm.9031$Kh7.8780@newsfe03.ams2...
> So you chaps enjoy siting round drinking brew's
> and listening to the radio all day?
> Its a good way to get through the 'so called' summer hollidays.
> I like uk radio 4, its a grand station. It has plays , book readings and
> radio documentaries, loads better than that strange 'beat' music I don't
> understand.
> Anyhow good on you chaps, you sit back have a brew and enjoy the radio.
indeed




From -8776164115464436955
X-Google-Thread: 241b302a50,32325fad326d3812,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
From: "kb9rqz" <kb9rqz@puncegotcha.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: techical note from the kosher ham
Date: Thu, 13 Aug 2009 12:15:06 -0400
Lines: 5
Organization: one punce over teh line
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
NNTP-Posting-Host: $$5jnnqhingh7l64.newsfeed.x-privat.org
Message-ID: <4a843c1f$1@x-privat.org>
X-Authenticated-User: $$q3_o_tx91q7xfh$rfsj2gd6
X-Complaints-To: abuse@x-privat.org
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news1.dtag.de!
feedme.news.telefonica.de!telefonica.de!area.cu.mi.it!x-privat.org!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:3015

tip and tick I hope folks wills find usefull

http://techkb9rqz.blogspot.com/
```

From 3323646208896963340
X-Google-Thread: e721ae2bf6,991cfebb0c2b55e,start
X-Google-Attributes: gide721ae2bf6,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
From: "kb9rqz" <kb9rqz@puncegotcha.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.policy
References: <h5n059$p73$1@news.eternal-september.org> <d2924bc9-f9dd-4d6c-bda7-b3a03c3303a9@e4g2000vbe.googlegroups.com>
Subject: Re: Need data sheet for 811 tube
Date: Thu, 13 Aug 2009 16:31:31 -0400
Lines: 19
Organization: one punce over teh line
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
NNTP-Posting-Host: $$5jnnqhingh7l64.newsfeed.x-privat.org
Message-ID: <4a847839$1@x-privat.org>
X-Authenticated-User: $$q3_o_tx91q7xfh$rfsj2gd6
X-Complaints-To: abuse@x-privat.org
Path: g2news2.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!feeder.news-service.com!news.astraweb.com!border5.a.newsrouter.astraweb.com!newsfeeder.ewetel.de!feedme.news.telefonica.de!telefonica.de!area.cu.mi.it!x-privat.org!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:3016 rec.radio.amateur.policy:26592

"Tim Shoppa" <shoppa@trailing-edge.com> wrote in message
news:d2924bc9-f9dd-4d6c-bda7-b3a03c3303a9@e4g2000vbe.googlegroups.com...
On Aug 9, 1:07 pm, Kenneth Scharf <wa2...@bellsouth.net> wrote:

> Does anybody have a link to a scan of an old data sheet for the 811 (NOT
> 811A) tube? All I seem to find are 811A spec's. I have the two line
> blub on the older 811 in an old ARRL HB, but I'd like to get the
> complete spec sheet. This tube existed in the gap between the TT3 and
> TT4 tube manuals so I can't find it.

I don't know where to find the datasheet for the 811-non-A, but I did
want to step in and point out that TT3 has the BEST SHEMALE TUBE PORN EVER!.
That picture of the 833 gets me all excited, even today.

Mrak i punce mrogan
http://ipunce.blogspot.com/

```
From -2704397260228394243
X-Google-Thread: e721ae2bf6,991cfebb0c2b55e
X-Google-Attributes: gide721ae2bf6,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!d21g2000vbm.googlegroups.com!not-for-
mail
From: kb9rqz <mark@kb9rqz.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: get kelp
Date: Thu, 13 Aug 2009 16:48:58 -0700 (PDT)
Organization: http://groups.google.com
Lines: 3
Message-ID: <538d6cbc-1608-497e-abc8-7cf4a9ee4f8e@d21g2000vbm.googlegroups.com>
References: <h5n059$p73$1@news.eternal-september.org> <d2924bc9-f9dd-4d6c-bda7-
b3a03c3303a9@e4g2000vbe.googlegroups.com>
     <4a847839$1@x-privat.org>
NNTP-Posting-Host: 69.19.14.31
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1250207338 5291 127.0.0.1 (13 Aug 2009 23:48:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 13 Aug 2009 23:48:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d21g2000vbm.googlegroups.com; posting-host=69.19.14.31;
     posting-account=3ePh8QoAAABpiNDYEy2_bPCVy_4Crs1n
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3017
rec.radio.amateur.policy:26595

On Aug 13, 4:31=A0pm, "kb9rqz" <kb9...@puncegotcha.com> wrote:
> "
fake



From 7020480740026016681
X-Google-Thread: 241b302a50,7068c7e126a55f59,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!
cyclone02.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf02.ams.highwinds-media.com!newsfe04.ams2.POSTED!7564ea0f!not-for-mail
From: "Tubal Cain" <Tubalcain@uk.radio.amateur>
Newsgroups: rec.radio.amateur.homebrew
Subject: test
Lines: 2
X-Priority: 3
X-MSMail-Priority: Normal
```

```
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <L5khm.120538$zh1.14591@newsfe04.ams2>
NNTP-Posting-Host: 86.15.196.162
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe04.ams2 1250282987 86.15.196.162 (Fri, 14 Aug 2009 20:49:47 UTC)
NNTP-Posting-Date: Fri, 14 Aug 2009 20:49:47 UTC
Organization: virginmedia.com
Date: Fri, 14 Aug 2009 21:49:42 +0100
Xref: g2news2.google.com rec.radio.amateur.homebrew:3018
```

```
From 1931564726840499116
X-Google-Thread: 241b302a50,5cbf3383bd858dca
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!feeder.erje.net!
feeder.eternal-september.org!eternal-september.org!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need data sheet for 811 tube
Date: Sat, 15 Aug 2009 15:02:49 -0400
Organization: A noiseless patient Spider
Lines: 37
Message-ID: <h670mh$9lh$1@news.eternal-september.org>
References: <h5n059$p73$1@news.eternal-september.org> <4a7f3cce@news.x-privat.org>
     <h5nk18$lf5$1@news.eternal-september.org> <368c3437-
a52d-4e7a-86fa-4a0c70a8607e@m20g2000vbp.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.eternal-september.org U2FsdGVkX1/
Dj8MH3m9fMiIt4nDETv4myXt+ifct8UDohvFWfccfGC59pX5q+PX9lLXrNmq4N3k599ByN8x/
NEAmrlL1Uoobob+6bb8gZRZrjNsQja9X9ugybx3wIw6VoMTef4rLPZMvK6aFwqNWQHm3qSw/IK0y
X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Sat, 15 Aug 2009 19:01:37 +0000 (UTC)
In-Reply-To: <368c3437-a52d-4e7a-86fa-4a0c70a8607e@m20g2000vbp.googlegroups.com>
X-Auth-Sender: U2FsdGVkX19sn6AV9KPln5Bkj3yLOUTqVQBWnQS5IC6ScNQQfGHcbg==
Cancel-Lock: sha1:3cNy+lamzyuze2gAibg4j4E4gJ8=
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3019

Tim Shoppa wrote:
> On Aug 9, 6:46 pm, Kenneth Scharf <wa2...@bellsouth.net> wrote:
>>    This link goes to the Svetlana sv811-10 which is NOT the same as the
>> ORIGINAL RCA 811 transmitting tube.  Svetlana had no right to call this
>> bottle an 811 as it does NOT have the plate cap, is NOT a transmitting
>> tube, and has a mu of 10 not 160!
```

>> This is a nice AUDIO tube, more of a replacement for the 300B than an 811!
>
> Actually, the 811 was sold by RCA as the "audio tube"; they sold the
> similar but not identical 812 as the RF tube. The beauty of the 811 as
> a push-pull class B modulator is the low parts count and you don't
> need any bias supply.
>
> It was only in the 1950's with the advent of SSB that the simplicity
> and excellent characteristics of the zero bias triode became clear in
> RF linear amplifier service. Before that everyone ran all their RF
> stages in class C for efficiency. It was the 30L1 in 1960, and some
> hams experimenting with zero bias in the 50's, that placed the 811A in
> the RF tube category. RCA of course was more than happy to sell the
> tubes for whatever purpose :-).
>
> Oh, here's a 811 (non-A) datasheet from HB3:
> http://www.pmillett.com/tubedata/HB-3/Transmitting_Tubes/811.pdf
>
> Good reading that mentions 811 marketing, and the advent of zero bias
> triodes for SSB linears, is in the 1996 QST article: "811A:
> Grandfather of the zero bias revolution". It notes that the main
> difference between the 811A and the non-A, was the addition of extra
> fin area in the 811A to boost dissipation.
>
> Tim.

Thanks! That's the one.
While it is true that the 811 was originally intended for use as an
audio tube in modulators RCA also published spec's on using it as an RF
final. May hams used the same tube type in both places so as to only
keep one tube type for spares. Audiophools today probably search for
812's for use in single ended class A amps.

```
From -4090261723256756275
X-Google-Thread: 241b302a50,6f2988b16840cfc6,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
news.enother.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 15 Aug 2009 20:28:15 -0500
From: "Giga News" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: RCA COS/MOS Integrated Circuit Databook?
Date: Sat, 15 Aug 2009 21:28:14 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <4MmdnaqrtbUy_RrXnZ2dnUVZ_vWdnZ2d@giganews.com>
Lines: 13
```

X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-ymQZYvqjOPYnlifa4cTbl8ouBY916SP03m/
40bpcKKZPy+o1pW1Qi5+azXs2Aa2lCl7SJen5G4M5U4B!
dKSchFzQH+1L1vqHuh9ZnqiBPCIOy69daVjgCEdZm6+Yd/VbhUZSI6ZRnXauQeykBeEqThmO+gQ=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3020

Does anybody have a link or a scanned copy of the old RCA COS/MOS Integrated Circuit databook for the CD4000A/B series logic chips? I have a whole collection of datasheets for the various chips but I would like to get a copy of the original databook in a machine readable format, PDF or Postscript would be OK. I let a coworker use my copy and somebody stole it off his desk.

73's

Leland C. Scott
KC8LDO

From 7132577213046273837
X-Google-Thread: 241b302a50,580f1195f2958a68
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o15g2000yqm.googlegroups.com!not-for-mail
From: Stuart Longland <redhatter@gentoo.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew 2m (and maybe 70cm) linear (solid state, 20~30W)
Date: Sun, 16 Aug 2009 07:41:03 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <3b74518a-cb71-4b5f-a508-59e042e73078@o15g2000yqm.googlegroups.com>
References: <32db5806-63a0-49f0-b481-e634fcc2adec@l5g2000pra.googlegroups.com>
     <Robert.Cherry.4c650e6@radiobanter.com>
NNTP-Posting-Host: 203.94.56.252
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1250433663 21550 127.0.0.1 (16 Aug 2009 14:41:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 16 Aug 2009 14:41:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o15g2000yqm.googlegroups.com; posting-host=203.94.56.252;
     posting-account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk

User-Agent: G2/1.0
X-HTTP-Via: 1.1 www.longlandclan.yi.org (squid/3.0.STABLE14)
X-HTTP-UserAgent: Mozilla/5.0 (compatible; Konqueror/4.3; Linux) KHTML/4.3.0 (like Gecko),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3021

Robert Cherry wrote:
> Stuart Longland;685473 Wrote:
> > I was wondering if anyone knew of a solid state 2m linear amp project
> > that I could build. I'm looking for no more than about 30W. It'll be
> > primarily used for FM, driven from my handheld radio. Bonus points if
> > it can do 70cm too (or at least allow pass-through unattenuated...).
>
> Stuart,
>
> Unless you absolutely want the experience of building, you may (I don't
> know the situation in Australia) be able to find a used mobile 2m or
> 2m/70cm tranceiver for a reasonable price. My used Yaesu FT-2800M cost
> me 100 Canadian dollars. I had been thinking of buying an amp for my HT
> but discovered it is easier to simply buy a transceiver that gives me 25
> watts along with 3 other power choices.

This is the ultimate aim... will be to purchase a newer radio. I have
my eyes set on a FT-897D, but it'll require quite some saving to
acquire the necessary cash.

I would still like to homebrew a linear amp though, as the final stage
for homebrew transceivers. This would be something that I'd be
looking to do in order to improve my understanding of
radiocommunications.

I'm also aware that I need not use a linear amp for FM (or CW/PSK,
class-C amps work for these modes), but since the homebrewing
mentioned above may also include AM and SSB, I figure a linear is
going to give me much better flexibility.

From -1399077021514570975
X-Google-Thread: 241b302a50,7d522504c6b8b129
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b15g2000yqd.googlegroups.com!not-for-mail
From: Stuart Longland <redhatter@gentoo.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: So do you chaps
Date: Sun, 16 Aug 2009 08:15:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <29f4fed1-3f11-49fa-ab3a-e5e620ed18d8@b15g2000yqd.googlegroups.com>

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References: <8dzdm.9031$Kh7.8780@newsfe03.ams2>
NNTP-Posting-Host: 203.94.56.252
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1250435710 28684 127.0.0.1 (16 Aug 2009 15:15:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 16 Aug 2009 15:15:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b15g2000yqd.googlegroups.com; posting-host=203.94.56.252;
     posting-account=R-Br3goAAACl4rnc9GJsKjH8s5GQVNsk
User-Agent: G2/1.0
X-HTTP-Via: 1.1 www.longlandclan.yi.org (squid/3.0.STABLE14)
X-HTTP-UserAgent: Mozilla/5.0 (compatible; Konqueror/4.3; Linux) KHTML/4.3.0
     (like Gecko),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3022

helpthea...@oldies.com wrote:
> So you chaps enjoy siting round drinking brew's
> and listening to the radio all day?

Well... there are those who just like drinking alcohol all day,
listening to the radio.  There's a certain satisfaction one gets
though, when you've used some mental muscle and elbow grease to home-
manufacture the radio receiver (or transceiver) yourself from basic
components.

There's also a nice feeling when your home brew of alcohol works out
just the way you like it.

Put these two things together... life is good. :-)

Regards,
Stuart Longland (VK4MSL)


From 4683718307022523556
X-Google-Thread: 241b302a50,6f2988b16840cfc6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
newsfeed.straub-nv.de!feeder.eternal-september.org!eternal-september.org!not-for-
mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RCA COS/MOS Integrated Circuit Databook?
Date: Sun, 16 Aug 2009 11:45:32 -0400
Organization: A noiseless patient Spider
Lines: 15
Message-ID: <h699gh$acc$3@news.eternal-september.org>
References: <4MmdnaqrtbUy_RrXnZ2dnUVZ_vWdnZ2d@giganews.com>
Mime-Version: 1.0
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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.eternal-september.org
U2FsdGVkX1+XsLq46S1wzVyM9qan08UQpDnv4pVEbrJp52/6DjLfcR7cvoHlX4TIad/
VzEgoWVjZ8PYer7M1DLNW4Eb4oQ0/
nADAvBocrRRnV7kwQWZNFqXuN0KR2IzroI2VsaxFVXlt9kggCnF2f/TUWWeD9tY7
X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Sun, 16 Aug 2009 15:44:18 +0000 (UTC)
In-Reply-To: <4MmdnaqrtbUy_RrXnZ2dnUVZ_vWdnZ2d@giganews.com>
X-Auth-Sender: U2FsdGVkX1+dacAG1a3orth0cxrWJyMdbnnxCblNXXK8TtTmpXRkCA==
Cancel-Lock: sha1:5mPu9HW5vqiKm+ZDq69bVU+dLAM=
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3023

Giga News wrote:
> Does anybody have a link or a scanned copy of the old RCA COS/MOS Integrated
> Circuit databook for the CD4000A/B series logic chips? I have a whole
> collection of datasheets for the various chips but I would like to get a
> copy of the original databook in a machine readable format, PDF or
> Postscript would be OK. I let a coworker use my copy and somebody stole it
> off his desk.
>
> 73's
>
> Leland C. Scott
> KC8LDO
>
>
which year/version?  I might have the book, but no time to scan it.


From -1018986887832959659
X-Google-Thread: 241b302a50,6f2988b16840cfc6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!t13g2000yqt.googlegroups.com!not-for-
mail
From: Huy Linh Le Nguyen <huylynk@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RCA COS/MOS Integrated Circuit Databook?
Date: Sun, 16 Aug 2009 10:29:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 1
Message-ID: <e6d221f6-8567-4f04-9a35-343b649512fc@t13g2000yqt.googlegroups.com>
References: <4MmdnaqrtbUy_RrXnZ2dnUVZ_vWdnZ2d@giganews.com>
NNTP-Posting-Host: 113.22.191.134
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1250443786 2087 127.0.0.1 (16 Aug 2009 17:29:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 16 Aug 2009 17:29:46 +0000 (UTC)
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Complaints-To: groups-abuse@google.com
Injection-Info: t13g2000yqt.googlegroups.com; posting-host=113.22.191.134;
     posting-account=wCT2SwoAAAAd_ybvyI1q6fYJktXQBhyA
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.2; en-US; rv:1.9.1.2)
     Gecko/20090729 Firefox/3.5.2,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3024
```

thatwaasfas

```
From -9170908853214392294
X-Google-Thread: 241b302a50,6f2988b16840cfc6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 16 Aug 2009 17:23:07 -0500
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4MmdnaqrtbUy_RrXnZ2dnUVZ_vWdnZ2d@giganews.com>
<h699gh$acc$3@news.eternal-september.org>
Subject: Re: RCA COS/MOS Integrated Circuit Databook?
Date: Sun, 16 Aug 2009 18:23:04 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <yI2dnV96HIhWGxXXnZ2dnUVZ_sKdnZ2d@giganews.com>
Lines: 26
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-PalyhXCteJL1lyxnpag1dQNKKQYY50CmKaFMVjWlPVhtP2v8/6xbko2uG3iAQeXO/
2s69AF6f0AI0td!
nPf1hg1T8WxM+f+QhVc3ieF5pMogNuwsZpF8c+wsEdxxKnAekpYJoPZVdyBnd601lggqn2Kae3Q=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1967
Xref: g2news2.google.com rec.radio.amateur.homebrew:3025
```

I had the 1980 version until somebody rip it off.

--
73's

Leland C. Scott

KC8LDO

"Kenneth Scharf" <wa2mze@bellsouth.net> wrote in message
news:h699gh$acc$3@news.eternal-september.org...
> Giga News wrote:
>> Does anybody have a link or a scanned copy of the old RCA COS/MOS
>> Integrated Circuit databook for the CD4000A/B series logic chips? I have
>> a whole collection of datasheets for the various chips but I would like
>> to get a copy of the original databook in a machine readable format, PDF
>> or Postscript would be OK. I let a coworker use my copy and somebody
>> stole it off his desk.
>>
>> 73's
>>
>> Leland C. Scott
>> KC8LDO
> which year/version? I might have the book, but no time to scan it.

```
From -9129983498766515699
X-Google-Thread: 241b302a50,580f1195f2958a68
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 16 Aug 2009 17:51:39 -0500
Date: Sun, 16 Aug 2009 23:51:37 +0100
From: highlandham <rfburns@nospam.com>
User-Agent: Thunderbird 2.0.0.19 (X11/20090424)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew 2m (and maybe 70cm) linear (solid state, 20~30W)
References: <32db5806-63a0-49f0-b481-e634fcc2adec@l5g2000pra.googlegroups.com>
     <Robert.Cherry.4c650e6@radiobanter.com> <3b74518a-cb71-4b5f-
a508-59e042e73078@o15g2000yqm.googlegroups.com>
In-Reply-To: <3b74518a-cb71-4b5f-a508-59e042e73078@o15g2000yqm.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <9PidnX4XoqHmEBXXnZ2dnUVZ8mednZ2d@pipex.net>
Lines: 12
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.111.53.207
X-Trace:
sv3-2Ne2PfZEPU6Zb5kR2biYQOtLbg0Vgtd+DucVF+53imkJYg2SHekaTecYGaMupCmU8TfGClXGv+i8gb
I!I14RkyTYpenGIkJHH5lCc4wKJepwPoux4WsQUtCkxIXsHDrr9V0LSpUZZdjYq0WvDlsaF5b3ttxg!
G6dcuZ/gvI2Pg8SQ0Wu14JtdiA==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
```

X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1941
Xref: g2news2.google.com rec.radio.amateur.homebrew:3026

Stuart Longland wrote:
> snip
> I'm also aware that I need not use a linear amp for FM (or CW/PSK,
> class-C amps work for these modes), but since the homebrewing
> mentioned above may also include AM and SSB, I figure a linear is
> going to give me much better flexibility.

==
Before considering a RF power amplifier for SSB operation ,get the best possible antenna(s) for the relevant bands .
These will give you even better fexibility .

Frank   GM0CSZ / KN6WH

From -4197783081764138723
X-Google-Thread: 241b302a50,83a60f338e338ce,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-online.de!feeder.erje.net!news.mixmin.net!not-for-mail
From: Claude Frantz <r31dmaeu@unibw.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: design of frequency multiplicator stages
Date: Wed, 19 Aug 2009 10:11:09 +0200
Organization: Mixmin
Lines: 10
Message-ID: <h6gc2t$p0h$1@news.mixmin.net>
NNTP-Posting-Host: 552bcc9a15548fb1e69131a23a43d60c
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-15; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@mixmin.net
NNTP-Posting-Date: Wed, 19 Aug 2009 08:11:09 +0000 (UTC)
User-Agent: Thunderbird 2.0.0.9 (X11/20071031)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3027

Do you known about good articles (or books) about the design of frequency multiplicator stages using tubes ?

I want to learn about choosing the operation point and the optimal load, in order to get a good efficiency and a good output power while reminding in the allowed limits.

Thanks a lot !

Claude

```
From -4293127899228730923
X-Google-Thread: 241b302a50,83a60f338e338ce
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!c1g2000yqi.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: design of frequency multiplicator stages
Date: Wed, 19 Aug 2009 07:28:37 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <9f47421e-999d-4b94-931a-dbc26c77dc4a@c1g2000yqi.googlegroups.com>
References: <h6gc2t$p0h$1@news.mixmin.net>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1250692117 15785 127.0.0.1 (19 Aug 2009 14:28:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 19 Aug 2009 14:28:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c1g2000yqi.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB6;
     .NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2731
```

On Aug 19, 4:11=A0am, Claude Frantz <r31dm...@unibw.de> wrote:
> Do you known about good articles (or books) about the design of
> frequency multiplicator stages using tubes ?
>
> I want to learn about choosing the operation point and the optimal load,
> in order to get a good efficiency and a good output power while
> reminding in the allowed limits.
>
> Thanks a lot !

Clarke and Hess, "Communications Circuits Analysis and Design", is a good book about operating points and goes into the math of figuring out what harmonics are produced at an operating point and drive. They also have a very good analysis of mixers. The math isn't heavyweight but is definitely college-level requiring application of calculus and it doesn't hurt to understand Laplace transforms either.

Today you'd probably do a SPICE simulation instead of the Taylor series expansions that Clarke and Hess go through, but it's still very worthwhile to understand what operating point parameters do in terms

of harmonics and the book gives insight that simply running
simulations won't give you.

In the ham cookbook sense, it is more common to copy a circuit out of
a handbook, build it and crank up the input power until you either get
the efficiency you expect, or you add another stage to get the power
you need. Both the ARRL handbook and Experimental Methods in RF Design
go into the sorts of efficiencies expected from different designs.

Most tube multipliers are simply operated in deep class C, with more
saturation than might be done for an efficient RF amp.

Tim N3QE

From 1798937690247184565
X-Google-Thread: 241b302a50,6f2988b16840cfc6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!news.mixmin.net!
feeder.eternal-september.org!eternal-september.org!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RCA COS/MOS Integrated Circuit Databook?
Date: Wed, 19 Aug 2009 20:13:46 -0400
Organization: A noiseless patient Spider
Lines: 13
Message-ID: <h6i4d9$f3n$1@news.eternal-september.org>
References: <4MmdnaqrtbUy_RrXnZ2dnUVZ_vWdnZ2d@giganews.com>
<h699gh$acc$3@news.eternal-september.org>
<yI2dnV96HIhWGxXXnZ2dnUVZ_sKdnZ2d@giganews.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.eternal-september.org U2FsdGVkX1/
Vx675eQVqaniVf+ec4qtP4eJKu66DEe6Ee43f+OtzLo+pdB2sfZ+/aKkbtfWq4ODIL/
G4Ibp4Dr3xhs+6Qb7UD6XOWgnPdYFiiLJT5eIrfsWZg/AXqnmwMiCCFO/DK4n71NU6udEttpCEJIj8Psfm
X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Thu, 20 Aug 2009 00:12:26 +0000 (UTC)
In-Reply-To: <yI2dnV96HIhWGxXXnZ2dnUVZ_sKdnZ2d@giganews.com>
X-Auth-Sender: U2FsdGVkX1+6gTa8wfPbhInDpCWZZrLEHtMGs3Kb2MLHkCR9kIJUYg==
Cancel-Lock: sha1:GUXJFOv41fV49vh/9odGm93IPFk=
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3029

Leland C. Scott wrote:
> I had the 1980 version until somebody rip it off.
>
>

I have the 1977 'cmos/mos integrated circuits' book
and the 1983 'cmos integrated circuits' book.

The 1977 book seems in better shape as it might have
been printed on acid free paper. The newer book is
turning brown, but is still in readable shape.

Lot's of pages, would take too much time to scan it all.
Anything in particular that you need?

```
From -5803653946217000466
X-Google-Thread: 241b302a50,6f2988b16840cfc6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx01.iad01.newshosting.com!
newshosting.com!novia!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 22 Aug 2009 01:09:18 -0500
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4MmdnaqrtbUy_RrXnZ2dnUVZ_vWdnZ2d@giganews.com>
<h699gh$acc$3@news.eternal-september.org>
<yI2dnV96HIhWGxXXnZ2dnUVZ_sKdnZ2d@giganews.com> <h6i4d9$f3n$1@news.eternal-
september.org>
Subject: Re: RCA COS/MOS Integrated Circuit Databook?
Date: Sat, 22 Aug 2009 02:09:13 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <MLOdnXnS9JoTFhLXnZ2dnUVZ_r6dnZ2d@giganews.com>
Lines: 30
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-bmVOM7XHZGCSMTLKSys4WlXpvDnwEUsRk9j/
dTgInL5W2ZRqYxlOAP+O3kIM8nl372Zk8DXjx2CAzh6!tj4d3P6wrF1hXIqXqXq5YQtCeJ1one/
w9MQMEGGvp5YCCF+vHFMfT3Ih3MaQvh6GoVNIDndvTsA=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3030
```

Kenneth;

Thanks for the offer. I was looking for a complete replacement version in a
machine readable format. The person I let use my work copy, and somebody it
ripped off from him, was working on a hobby project during his break time;
it was absolutely nothing work related.

73's

Leland C. Scott
KC8LDO

"Kenneth Scharf" <wa2mze@bellsouth.net> wrote in message
news:h6i4d9$f3n$1@news.eternal-september.org...
> Leland C. Scott wrote:
>> I had the 1980 version until somebody rip it off.
>>
>>
> I have the 1977 'cmos/mos integrated circuits' book
> and the 1983 'cmos integrated circuits' book.
>
> The 1977 book seems in better shape as it might have
> been printed on acid free paper. The newer book is
> turning brown, but is still in readable shape.
>
> Lot's of pages, would take too much time to scan it all.
> Anything in particular that you need?

From 5546423303987997328
X-Google-Thread: 9e586c3d78,7902532416606cdb,start
X-Google-Attributes: gid9e586c3d78,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
From: "kb9rqz" <kb9rqz@puncegotcha.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.shortwave
Subject: the home of the kosher ham
Date: Sat, 22 Aug 2009 14:57:56 -0400
Lines: 4
Organization: one punce over teh line
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
NNTP-Posting-Host: $$5jnnqhinhg7l53.newsfeed.x-privat.org
Message-ID: <4a903fc4@x-privat.org>
X-Authenticated-User: $$q3_o_tx91q7xfh$rfsj2gd6
X-Complaints-To: abuse@x-privat.org
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!feeder.news-service.com!news2.euro.net!news-out1.kabelfoon.nl!newsfeed.kabelfoon.nl!xindi.nntp.kabelfoon.nl!x-privat.org!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:3031
rec.radio.amateur.policy:26621 rec.radio.shortwave:47904

http://kb9rqz.blogspot.com/

the core blog of KB9rqz a ham radio that happenens to be Bi sexaul kinky

```
From -7245037438558063539
X-Google-Thread: 241b302a50,7d522504c6b8b129
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g6g2000vbr.googlegroups.com!not-for-
mail
From: stan <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: So do you chaps
Date: Sun, 23 Aug 2009 13:12:11 -0700 (PDT)
Organization: http://groups.google.com
Lines: 27
Message-ID: <f1a2df8d-02d3-4b6f-944b-e42dfecbe4e0@g6g2000vbr.googlegroups.com>
References: <8dzdm.9031$Kh7.8780@newsfe03.ams2> <29f4fed1-3f11-49fa-ab3a-
e5e620ed18d8@b15g2000yqd.googlegroups.com>
NNTP-Posting-Host: 142.162.128.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1251058334 13380 127.0.0.1 (23 Aug 2009 20:12:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 23 Aug 2009 20:12:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g6g2000vbr.googlegroups.com; posting-host=142.162.128.246;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3032
```

On Aug 16, 1:15=A0pm, Stuart Longland <redhat...@gentoo.org> wrote:
> helpthea...@oldies.com wrote:
> > So you chaps enjoy siting round drinking brew's
> > and listening to the radio all day?
>
> Well... there are those who just like drinking alcohol all day,
> listening to the radio. =A0There's a certain satisfaction one gets
> though, when you've used some mental muscle and elbow grease to home-
> manufacture the radio receiver (or transceiver) yourself from basic
> components.
>
> There's also a nice feeling when your home brew of alcohol works out
> just the way you like it.
>
> Put these two things together... life is good. :-)
>
> Regards,

```
> Stuart Longland (VK4MSL)

Yup: I made/home-built/constructed/home-brewed, or whatever terms we
want to use, my first radio at around age 13 a few years following
WWII.
That led to a 40 year career in telecomms. Still tinkering! But
haven't built anything new for years.
Sorry but only 'consumption' here, by choice, is a half glass of wine
(not even home-brewed!) with a meal; when offered.
Mash on chaps! Best of luck.



From -1158288831OO86190
X-Google-Thread: 9e586c3d78,7902532416606cdb
X-Google-Attributes: gid9e586c3d78,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
69.16.185.21.MISMATCH!npeer03.iad.highwinds-media.com!news.highwinds-media.com!
feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe01.iad.POSTED!
ce516c54!not-for-mail
From: kb9rqz@yahoooo.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.shortwave
Subject: Re: the home of the kosher ham
Message-ID: <a7r595d4aet5biprmi2hopl770hric98kc@4ax.com>
References: <4a903fc4@x-privat.org>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 25
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Mon, 24 Aug 2009 19:41:54 UTC
Organization: TeraNews.com
Date: Mon, 24 Aug 2009 15:42:11 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:3033
rec.radio.amateur.policy:26623 rec.radio.shortwave:48021

On Sat, 22 Aug 2009 14:57:56 -0400, "kb9rqz" <kb9rqz@puncegotcha.com>
wrote:

>http://kb9rqz.blogspot.com/
>the core blog of KB9rqz a ham radio that happenens to be Bi sexaul kinky
>
so you can faking mya post from m to spam my blog url so I get paid?

weird orama

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams
```

woger you are a Congress all in your own head
"http://www.3ix.org/sys/aff.php?aff=7439" target="_blank"

altopia is never used by KB9RQZ
http://kb9rqz.cc.cc
http://kd8ctl.com
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

```
From 6197573298036574957
X-Google-Thread: 241b302a50,a330e8c5e21d5325,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,CP1252
Path: g2news2.google.com!postnews.google.com!d9g2000prh.googlegroups.com!not-for-
mail
From: wilson <andrade.wilson.wilson@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: =?windows-1252?Q?Wikipedia_is_now_available_on_iphones_=96_I_am_so_ex?=
     =?windows-1252?Q?ited_to_check_it_out?=
Date: Fri, 28 Aug 2009 23:52:17 -0700 (PDT)
Organization: http://groups.google.com
Lines: 9
Message-ID: <89b7eae0-aad7-4aa4-9912-9a28069c481b@d9g2000prh.googlegroups.com>
NNTP-Posting-Host: 203.122.51.29
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1251528738 21430 127.0.0.1 (29 Aug 2009 06:52:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 29 Aug 2009 06:52:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d9g2000prh.googlegroups.com; posting-host=203.122.51.29;
     posting-account=SwWLTAoAAADIBJg6wfQBkNBCMvJdgSRb
User-Agent: G2/1.0
X-HTTP-Via: 1.1 SERVER
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.13)
     Gecko/2009073022 Firefox/3.0.13 GTB5,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3034
```

Launch of new Apple applications is no more a buzz but it is when
exclusive website like Wikipedia launches its app for the iPhone or
iPod Touch. The app is named =91Wikipedia Mobile' by the non-profit
Wikimedia Foundation will be available free for download now from
Apple iTunes App Store. I am so exited to check it out. If anyone
already has checked it out please share your views.

Check it out at: http://www.ziphone.org/2009/08/wikipedia-official-iphone-a=

pplication.html

```
From 6068519247878215067
X-Google-Thread: a4a23d5f63,59af87800d49c028,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
transit3.readnews.com!news-out.readnews.com!news-xxxfer.readnews.com!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1249106400@panix.com>
Followup-To: poster
Date: 1 Sep 2009 02:00:02 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 04 Oct 2009 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1251784801@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1251784803 25418 166.84.1.2 (1 Sep 2009 06:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 1 Sep 2009 06:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Xref: g2news2.google.com rec.radio.amateur.antenna:13815 rec.radio.amateur.dx:482
rec.radio.amateur.equipment:1771 rec.radio.amateur.homebrew:3035
rec.radio.amateur.misc:4496 rec.radio.amateur.policy:26656
rec.radio.amateur.space:282 rec.radio.info:942

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html
```

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From 5498673292830853899
X-Google-Thread: 241b302a50,84fae355fc69244b,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l34g2000vba.googlegroups.com!not-for-
mail
From: =?ISO-8859-2?Q?Micha=B3_S=B3omkowski?= <m.slomkowski@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SA612/NE612 - optimal input signal level
Date: Tue, 1 Sep 2009 10:01:19 -0700 (PDT)
Organization: http://groups.google.com
Lines: 4
Message-ID: <c0c5ea92-762b-4e20-a8b5-29b61422104d@l34g2000vba.googlegroups.com>
NNTP-Posting-Host: 79.186.167.174
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1251824479 12128 127.0.0.1 (1 Sep 2009 17:01:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 1 Sep 2009 17:01:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l34g2000vba.googlegroups.com; posting-host=79.186.167.174;
     posting-account=Y9gN3goAAADKsI7ogmJ2MUgm8Nqvaos_
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.64 (X11; Linux x86_64; U; pl) Presto/
2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3036
```

I'm designing a HF transceiver and I'm going to use SA612/NE612 as a product detector. I'm not sure what is the optimal signal level, which should be delivered to the inputs from the IF amplifier to achieve the best performance?

```
From 3888563211225445820
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!e34g2000vbm.googlegroups.com!not-for-
mail
From: kb9rqz <mark@kb9rqz.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Crossposting Permitted to rec.radio.amateur.moderated
Date: Tue, 1 Sep 2009 12:23:31 -0700 (PDT)
Organization: http://groups.google.com
Lines: 4
Distribution: world
Message-ID: <9704c26c-a034-414a-b23f-899e08059976@e34g2000vbm.googlegroups.com>
References: <radio/ham-radio/moderated/crossposting-1-1251784801@panix.com>
NNTP-Posting-Host: 66.82.162.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1251833011 10239 127.0.0.1 (1 Sep 2009 19:23:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 1 Sep 2009 19:23:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e34g2000vbm.googlegroups.com; posting-host=66.82.162.12;
     posting-account=3ePh8QoAAABpiNDYEy2_bPCVy_4Crs1n
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:13828 rec.radio.amateur.dx:483
rec.radio.amateur.equipment:1772 rec.radio.amateur.homebrew:3037
rec.radio.amateur.misc:4500
```

On Sep 1, 2:00=A0am, r...@panix.com (rec.radio.amateur.moderated Admin)
wrote:
>

for a ng that was created to aoid troll to be trolling is pretty lame

From -2282467183081404743
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!feeder.ecngs.de!ecngs!feeder2.ecngs.de!feeder.erje.net!feeder.news.heanet.ie!news.indigo.ie!not-for-mail
From: Eamon Skelton <Xnospam@oceanfree.net>
Subject: Re: SA612/NE612 - optimal input signal level
Newsgroups: rec.radio.amateur.homebrew
References: <c0c5ea92-762b-4e20-a8b5-29b61422104d@l34g2000vba.googlegroups.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 28
Message-ID: <nJqnm.29895$j7.491069@news.indigo.ie>
Date: Wed, 02 Sep 2009 09:16:03 GMT
NNTP-Posting-Host: 86.41.152.248
X-Complaints-To: abuse@eircom.net
X-Trace: news.indigo.ie 1251882963 86.41.152.248 (Wed, 02 Sep 2009 10:16:03 BST)
NNTP-Posting-Date: Wed, 02 Sep 2009 10:16:03 BST
Organization: Eircom.Net http://www.eircom.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:3038

On Tue, 01 Sep 2009 10:01:19 -0700, Michał Słomkowski wrote:

> I'm designing a HF transceiver and I'm going to use SA612/NE612 as a
> product detector. I'm not sure what is the optimal signal level, which
> should be delivered to the inputs from the IF amplifier to achieve the
> best performance?

There are graphs for input IP3, compression and gain in
the Philips data-sheet. The exact value of IP3 will
depend on the supply voltage, frequency and the configuration
of your circuit. The data-sheet figure for 45MHz is -13dBm.
You will want the IF input to be well below this level.
Somewhere in the -25 to -40dBm region should be ok.

The xx612 is a low power, high gain device. It is not a
particularly good choice as a product detector in a superhet.
A simple two diode balanced mixer or a diode ring mixer (DBM)
would give much better IMD performance and costs even less than
the 612.

73, Ed. EI9GQ.

--
Linux 2.6.30
Remove 'X' to reply by e-mail.

```
From -8279680471914178036
X-Google-Thread: 241b302a50,84fae355fc69244b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j19g2000yqk.googlegroups.com!not-for-
mail
From: =?UTF-8?Q?Micha=C5=82_S=C5=82omkowski?= <m.slomkowski@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SA612/NE612 - optimal input signal level
Date: Wed, 2 Sep 2009 06:17:54 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <59b5344b-2235-4d13-b4ef-2a2b6d355fa5@j19g2000yqk.googlegroups.com>
References: <c0c5ea92-762b-4e20-a8b5-29b61422104d@l34g2000vba.googlegroups.com>
     <nJqnm.29895$j7.491069@news.indigo.ie>
NNTP-Posting-Host: 79.186.156.125
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1251897529 6153 127.0.0.1 (2 Sep 2009 13:18:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 2 Sep 2009 13:18:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j19g2000yqk.googlegroups.com; posting-host=79.186.156.125;
     posting-account=Y9gN3goAAADKsI7ogmJ2MUgm8Nqvaos_
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.64 (X11; Linux x86_64; U; pl) Presto/
2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3039
```

Thank you very much for your reply. I'm going to use NE612 because it's quite popular and easy to use. Double balanced mixers are better, but they need vary good impedance matching and high LO signal level. I don't have much experience in building RF circuits, but I think the IMD performance is not as important in product detector, as in the first mixer.

My concept of the receiver stage is that: bandpass filters -> variable attenuators -> first mixer AD831 -> quarz filter XF9/B (a polish replacement) with 9MHz IF -> IF block based on variable gain amplifiers LMH6505 and preamplifier LMH6624 -> product detector.

I would use AD831 also as a product detector but this part is very hard to find in Poland so I only managed to get one piece.

PS. I have read your webpage that helped me much in building my own transceiver!

From 8966130693435085495

X-Google-Thread: 241b302a50,84fae355fc69244b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g1g2000vbr.googlegroups.com!not-for-mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SA612/NE612 - optimal input signal level
Date: Wed, 2 Sep 2009 10:17:24 -0700 (PDT)
Organization: http://groups.google.com
Lines: 49
Message-ID: <00e7a14e-9ea1-44e2-be92-963e7698fe84@g1g2000vbr.googlegroups.com>
References: <c0c5ea92-762b-4e20-a8b5-29b61422104d@l34g2000vba.googlegroups.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-2
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1251911850 28650 127.0.0.1 (2 Sep 2009 17:17:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 2 Sep 2009 17:17:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g1g2000vbr.googlegroups.com; posting-host=207.200.116.11;
posting-account=0Q4qJQoAAAB4vjIbnPnpY8JqAcYZv7Os
User-Agent: G2/1.0
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s]), HTTP/1.1
spider-ntc-tb10.proxy.aol.com[CFC8702A] (Prism/1.2.1), HTTP/1.1
cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
Trident/4.0; SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
3.5.30729; .NET CLR 3.0.30618),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3040

On Sep 1, 10:01=A0am, Micha=B3 S=B3omkowski <m.slomkow...@gmail.com> wrote:

> I'm designing a HF transceiver and I'm going to use SA612/NE612 as a
> product detector. I'm not sure what is the optimal signal level, which
> should be delivered to the inputs from the IF amplifier to achieve the
> best performance?

Not intended to be a high-level input device, the Gilbert Cell
structure of the
SA612 or SA612A should make a good, low-power SSB or CW detector.
Mixer ratings put the IP3 maximum at -15 dbm which comes out to about
40 mV p-p at the input. Mixer conversion gain is somewhere in between
14
and 19 db.

Both input and output impedances are 1.5 KOhms in parallel with about
2 pFd. Both inputs are DC biased internally so capacitive coupling
should
be used (very important so as not to disturb internal biasing).
Output
impedance is 1.5 KOhms from the internal collector loads, should also

be capacitively-coupled to the audio output. Expect an audio output level to be about 1 V peak-to-peak maximum with an IF input of ~ 40 mV peak-to-peak. That is running from a +5 VDC supply rail. It is almost the same with a +6 VDC supply rail.

Carrier re-insertion/mixing (for "product detector" use) would be about 200 to 300 mV peak-to-peak. Try not to exceed 300 mV p-p as that will cause distortion from "BFO" harmonic generation. Dropping below 200 mV p-p will cause the conversion transconductance to drop until it almost disappears.

Interesting application, breaking some new territory there! :-) Basically an HF to low-UHF design, it was intended solely as a low-supply-drain (2.4 to 3.0 mA) front-end mixer, it should work equally well to "down-mix" back to audio range. Mixing is mixing, dependent only on the frequency response of the internal transistor junctions.

73,
Len Anderson AF6AY

```
From 2957905822743355876
X-Google-Thread: 241b302a50,84fae355fc69244b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
news.mixmin.net!feeder.eternal-september.org!eternal-september.org!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SA612/NE612 - optimal input signal level
Date: Wed, 02 Sep 2009 19:32:57 -0400
Organization: A noiseless patient Spider
Lines: 58
Message-ID: <h7mv7o$7ts$1@news.eternal-september.org>
References: <c0c5ea92-762b-4e20-a8b5-29b61422104d@l34g2000vba.googlegroups.com>
<00e7a14e-9ea1-44e2-be92-963e7698fe84@g1g2000vbr.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-2; format=flowed
Content-Transfer-Encoding: 8bit
X-Trace: news.eternal-september.org
U2FsdGVkX1+ieF7+3GQ7mZ3lSgKy9tFC68cY6EgpF0VfNlOQAhpF4aCHQQEySTux0MCQWEHBwBPKZc5xiU
NdP8+qzS6R7tuNwyX+iusebKY9dqcuxVrWqdf95+BfqEHpxkdejdxEf1MGi9EoM1LY4g==
```

X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Wed, 2 Sep 2009 23:31:05 +0000 (UTC)
In-Reply-To: <00e7a14e-9ea1-44e2-be92-963e7698fe84@g1g2000vbr.googlegroups.com>
X-Auth-Sender: U2FsdGVkX18elvTQNitrf9ILqJ6GFv8r6Rdc24Z/p4vqO0QsMQklyw==
Cancel-Lock: sha1:9wVhC7qFoocu1WhiTdpIlSmtGsI=
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3041

AF6AY wrote:
> On Sep 1, 10:01 am, Micha� S�omkowski <m.slomkow...@gmail.com> wrote:
>> I'm designing a HF transceiver and I'm going to use SA612/NE612 as a
>> product detector. I'm not sure what is the optimal signal level, which
>> should be delivered to the inputs from the IF amplifier to achieve the
>> best performance?
>
> Not intended to be a high-level input device, the Gilbert Cell
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> SA612 or SA612A should make a good, low-power SSB or CW detector.
> Mixer ratings put the IP3 maximum at -15 dbm which comes out to about
> 40 mV p-p at the input. Mixer conversion gain is somewhere in between
> 14
> and 19 db.
>
> Both input and output impedances are 1.5 KOhms in parallel with about
> 2 pFd. Both inputs are DC biased internally so capacitive coupling
> should
> be used (very important so as not to disturb internal biasing).
> Output
> impedance is 1.5 KOhms from the internal collector loads, should also
> be
> capacitively-coupled to the audio output. Expect an audio output
> level to
> be about 1 V peak-to-peak maximum with an IF input of ~ 40 mV peak-to-
> peak.
> That is running from a +5 VDC supply rail. It is almost the same with
> a +6
> VDC supply rail.
>
> Carrier re-insertion/mixing (for "product detector" use) would be
> about
> 200 to 300 mV peak-to-peak. Try not to exceed 300 mV p-p as that will
> cause distortion from "BFO" harmonic generation. Dropping below 200
> mV p-p will cause the conversion transconductance to drop until it
> almost
> disappears.
>
> Interesting application, breaking some new territory there! :-)
> Basically an
> HF to low-UHF design, it was intended solely as a low-supply-drain
> (2.4 to
> 3.0 mA) front-end mixer, it should work equally well to "down-mix"
> back to
> audio range. Mixing is mixing, dependent only on the frequency

> response
> of the internal transistor junctions.
>
> 73,
> Len Anderson AF6AY

Actually the SA602/612 (IIRC the '602 is the better part, the 612 is a fallout of 602's that didn't meet spec) can work well. The Elecraft K2 uses this chip in several places, including the product detector and the K2 has one of the best receiver spec's out there. They did make use of pads in the signal and hfo paths to get the input levels correct, and no doubt matched input and output impedances correctly as well. An inspection of the K2 schematic's would be a good lesson in setting up this part.

From -6318919221375076415
X-Google-Thread: 241b302a50,84fae355fc69244b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!nx01.iad01.newshosting.com!newshosting.com!216.196.98.140.MISMATCH!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 03 Sep 2009 17:48:20 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: SA612/NE612 - optimal input signal level
Newsgroups: rec.radio.amateur.homebrew
References: <c0c5ea92-762b-4e20-a8b5-29b61422104d@l34g2000vba.googlegroups.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <m6ednVZXZeAp2j3XnZ2dnUVZ_oFi4p2d@web-ster.com>
Date: Thu, 03 Sep 2009 17:48:20 -0500
Lines: 26
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-UKvgWSpY/kETYaEYxAP/ZqYc3ot4iv6cf3LQWvw2nyN0+q5y+NlsND4HGNXSbnKgWl2HdbG6hGglnz4!82GurRysroOZTQC0z4qVrUjFc/L2QtfAiBC/IXUCCrBxsjwZo6pbHdkEtDcw4t5dBff3Z85+AM5T!1Alk/jPsY4+bxL4=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3042

On Tue, 01 Sep 2009 10:01:19 -0700, Michał Słomkowski wrote:

> I'm designing a HF transceiver and I'm going to use SA612/NE612 as a
> product detector. I'm not sure what is the optimal signal level, which
> should be delivered to the inputs from the IF amplifier to achieve the

> best performance?

I did this a long time ago with an NE602, in a receiver with audio-derived AGC (see http://www.wescottdesign.com/articles/MSK/page_79.html). With IF input levels the mixer would suffer diminishing output. This would cause the AGC to get "stuck" in a positive feedback mode and push the thing to ever-higher gain and ever-lower audio levels. I fixed it with a pair of diodes, one in each direction, at the IF input to the mixer (they're not in the schematic). They'd distort the signal at those levels, but at that point it was much higher than desired anyway -- it just needed to keep it low enough to let the AGC grab hold.

I _think_ they were germanium diodes -- IIRC silicon diodes let too much signal through. You could use germanium, Schottky, or plain old silicon diodes plus a 6dB pad, all to equal effect.

I'd tell you how good it sounded, but it was a data-link receiver and I don't recall ever listening to it!

--
www.wescottdesign.com

From -2883830646021233521
X-Google-Thread: 241b302a50,75609a621011f04d,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!9acd33fc!not-for-mail
From: n2go <n2go@arrl.net>
User-Agent: Thunderbird 2.0.0.23 (X11/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: WTB mrf150
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 2
Message-ID: <7jeom.1131$Jd7.711@nwrddc02.gnilink.net>
Date: Fri, 04 Sep 2009 19:57:55 GMT
NNTP-Posting-Host: 129.44.253.31
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1252094275 129.44.253.31 (Fri, 04 Sep 2009 15:57:55 EDT)
NNTP-Posting-Date: Fri, 04 Sep 2009 15:57:55 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3043

need set of four.
Jim n2go

From -7129329012746651641
X-Google-Thread: 241b302a50,18b619276b403a5c,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j39g2000yqh.googlegroups.com!not-for-mail
From: fazamy <fazamy@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Recording CW for a demonstration
Date: Sat, 5 Sep 2009 09:12:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 11
Message-ID: <9bf82a63-6ee1-41b7-ac22-46bf3da78a16@j39g2000yqh.googlegroups.com>
NNTP-Posting-Host: 68.161.115.245
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1252167170 6056 127.0.0.1 (5 Sep 2009 16:12:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 5 Sep 2009 16:12:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j39g2000yqh.googlegroups.com; posting-host=68.161.115.245;
posting-account=fhjp8woAAACjooYbCZGv8loJZMngOnKX
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.5)
Gecko/2008120122 Firefox/3.0.5 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3044

If this is the incorrect group, then please send me to the proper
one. I want to demonstrate the sound of cw with my own message.

I have a sound card. How can I create a wav file that can be saved on
a flash drive? OR
By using DM780 or MultiPSK, can I create a cw message that can be
saved on a flash drive?

Tnx and 73,
KB2AMY
Evan

From 1855890455266439305
X-Google-Thread: 241b302a50,6e76d34c8ad01dee,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.visi!news.posted.visi.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 05 Sep 2009 14:48:15 -0500
From: "Bob" <kavacon@noga.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Homebrew HD?

Date: Sat, 5 Sep 2009 14:48:16 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <APSdnYrEo5fiXT_XnZ2dnUVZ_g-dnZ2d@posted.visi>
Lines: 10
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 209.98.172.171
X-Trace: sv3-KzlhyZOW2x9CpJ58agAdmRLnu4APWAcA2j0dd/
3KX3zJJuSPp1gblTc+yjIM2oCdBJHc3LV/RTHC3lX!
xhYzCUd7VYDSIiu8B4XauAhB3VttUynuhkFRiVJSwpdSC7v4sBXSN24EXQTMpm0RCElaBMaw8Xtr!QJFV
X-Complaints-To: abuse@visi.com
X-DMCA-Complaints-To: abuse@visi.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3045

Hi gang,
Anyone know of an sites of folks doing homebrew HD radio demods? There are several sites out there for doing shortwave DRM (Digital Radio Mondale), but I'm wondering if any efforts have been made to build similar hardware/software for the HD radio broadcasting that takes place on the U.S AM broadcast band.

Bob WB0POQ

From -7921865433030878304
X-Google-Thread: 241b302a50,18b619276b403a5c
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!t2g2000yqn.googlegroups.com!not-for-mail
From: fazamy <fazamy@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Recording CW for a demonstration
Date: Sat, 5 Sep 2009 14:31:42 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <102cc1c4-89e9-4838-aed8-918b3459512f@t2g2000yqn.googlegroups.com>
References: <9bf82a63-6ee1-41b7-ac22-46bf3da78a16@j39g2000yqh.googlegroups.com>
NNTP-Posting-Host: 68.161.122.44
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1252186303 8018 127.0.0.1 (5 Sep 2009 21:31:43 GMT)

X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 5 Sep 2009 21:31:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t2g2000yqn.googlegroups.com; posting-host=68.161.122.44;
     posting-account=fhjp8woAAACjooYbCZGv8loJZMngOnKX
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.5)
     Gecko/2008120122 Firefox/3.0.5 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3046

On Sep 5, 12:12=A0pm, fazamy <faz...@aol.com> wrote:
> If this is the incorrect group, then please send me to the proper
> one. =A0I want to demonstrate the sound of cw with my own message.
>
> I have a sound card. =A0How can I create a wav file that can be saved on
> a flash drive? =A0OR
> By using DM780 or MultiPSK, can I create a cw message that can be
> saved on a flash drive?
>
> Tnx and 73,
> KB2AMY
> Evan

Guys,

I figured it out by myself. Audacity is the software I can use to do
my project.
TU,
KB2AMY

From -1968216675936012576
X-Google-Thread: 241b302a50,6e76d34c8ad01dee
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 05 Sep 2009 20:11:35 -0500
Date: Sat, 05 Sep 2009 20:11:01 -0500
From: sorry-spammers <""w9wi\"@(sorry-spammers)">
Organization: Ham Radio W9WI
User-Agent: Thunderbird 2.0.0.23 (X11/20090817)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew HD?
References: <APSdnYrEo5fiXT_XnZ2dnUVZ_g-dnZ2d@posted.visi>
In-Reply-To: <APSdnYrEo5fiXT_XnZ2dnUVZ_g-dnZ2d@posted.visi>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <T_CdnfRGHvjVkT7XnZ2dnUVZ_gxi4p2d@earthlink.com>
Lines: 19

X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 4.152.156.117
X-Trace: sv3-Ze695KkTS5UfoJWEnu96UaKgvA7YCf9dd8vQyOHP0izweGku9H/m16hI/
R14sDjOCdix5ZMMrVI52S1!
RuXZp4RhJIJ8H8yeLVbFyrXI8GWMv6r9hgtD1FxAmqtbIKxjLNBZfj9sfCgV8ZeU+PcvPEbNZCxY!
ru7fFUh9xea5wgi93dDy/9ATni1A
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3047

Bob wrote:
> Hi gang,
>   Anyone know of an sites of folks doing homebrew HD radio demods? There
> are several sites out there for doing shortwave DRM (Digital Radio Mondale),
> but I'm wondering if any efforts have been made to build similar
> hardware/software for the HD radio broadcasting that takes place on the U.S
> AM broadcast band.

Haven't heard of any.

Unlike DRM, HD Radio is a proprietary protocol, I don't *think* they release enough details to implement it unless you're a chipmaker who's paid the royalties.

(I suppose one could reverse-engineer it -- to my knowledge there is no encryption involved)

--

Doug Smith W9WI
Pleasant View, TN EM66

From 4129148103700451322
X-Google-Thread: 241b302a50,24adb699c46089cf,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!9acd33fc!not-for-
mail
From: n2go <n2go@arrl.net>
User-Agent: Thunderbird 2.0.0.23 (X11/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: teflon wire
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 11
Message-ID: <dHPom.1338$Jd7.723@nwrddc02.gnilink.net>

Date: Sun, 06 Sep 2009 14:29:29 GMT
NNTP-Posting-Host: 72.65.12.174
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1252247369 72.65.12.174 (Sun, 06 Sep 2009 10:29:29 EDT)
NNTP-Posting-Date: Sun, 06 Sep 2009 10:29:29 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3048

22AWG stranded,silver plated, teflon insulated wire in 100 foot lengths.
package of 500 feet (five rolls) $26 shipped if paid by paypal.

save on shipping with two packs (1000' total = $47 shipped if paid by paypal)

The wire is packed and is in an assortment of colors. No choices of specific colors. The silver plating make soldering easy. It won't shrink and is rated for 600V and 200 degrees C. Some have used it in homebrew radios.amplifiers, tube radios, portable antennas etc.
Jim n2go

From -5202899661773788922
X-Google-Thread: 241b302a50,84fae355fc69244b
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q7g2000yqi.googlegroups.com!not-for-mail
From: =?UTF-8?Q?Micha=C5=82_S=C5=82omkowski?= <m.slomkowski@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SA612/NE612 - optimal input signal level
Date: Sun, 6 Sep 2009 08:42:12 -0700 (PDT)
Organization: http://groups.google.com
Lines: 2
Message-ID: <5b38208a-db01-4745-be56-6e7751fb28bb@q7g2000yqi.googlegroups.com>
References: <c0c5ea92-762b-4e20-a8b5-29b61422104d@l34g2000vba.googlegroups.com>
<m6ednVZXZeAp2j3XnZ2dnUVZ_oFi4p2d@web-ster.com>
NNTP-Posting-Host: 79.186.129.128
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1252251732 6887 127.0.0.1 (6 Sep 2009 15:42:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 6 Sep 2009 15:42:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q7g2000yqi.googlegroups.com; posting-host=79.186.129.128;
posting-account=Y9gN3goAAADKsI7ogmJ2MUgm8Nqvaos_
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.64 (X11; Linux x86_64; U; pl) Presto/2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3049

I decided the IF amplifier will deliver the signal to SA612 at the level -40dBm. Thanks everyone for advices.

From -2865086735631033031
X-Google-Thread: 241b302a50,6e76d34c8ad01dee
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!v23g2000pro.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew HD?
Date: Sun, 6 Sep 2009 09:09:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <1d17abcf-e1f4-4e7a-b344-93905cef1984@v23g2000pro.googlegroups.com>
References: <APSdnYrEo5fiXT_XnZ2dnUVZ_g-dnZ2d@posted.visi>
<T_CdnfRGHvjVkT7XnZ2dnUVZ_gxi4p2d@earthlink.com>
NNTP-Posting-Host: 76.226.107.167
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1252253369 16915 127.0.0.1 (6 Sep 2009 16:09:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 6 Sep 2009 16:09:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v23g2000pro.googlegroups.com; posting-host=76.226.107.167;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
2.0.50727; .NET CLR 3.0.04506.648; .NET CLR 3.5.21022; .NET CLR
3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3050

Hey OM:

I would suspect that the FCC knows everything there is to know about
AM broadcast band HD. They sure did go thru extensive testing to get
HD on that band.
Towit: the FCC has to know what is going on and how they is doing the
goings ons.

73 OM

de n8zu

On Sep 6, 12:11=A0pm, sorry-spammers <""w9wi\"@(sorry-spammers)"> wrote:

> Bob wrote:
>

```
> Haven't heard of any.
>
> Unlike DRM, HD Radio is a proprietary protocol, I don't *think* they rele=
ase enough details to implement it unless you're a chipmaker who's paid the
> royalties.
>
> (I suppose one could reverse-engineer it -- to my knowledge there is no e=
ncryption involved)
>
> --
>
> Doug Smith W9WI
> Pleasant View, TN =A0EM66



From -8217330241692252410
X-Google-Thread: 241b302a50,6e76d34c8ad01dee
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
188.40.43.213.MISMATCH!feeder.eternal-september.org!eternal-september.org!not-for-
mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew HD?
Date: Sun, 06 Sep 2009 22:46:59 -0400
Organization: A noiseless patient Spider
Lines: 13
Message-ID: <h81s39$j12$1@news.eternal-september.org>
References: <APSdnYrEo5fiXT_XnZ2dnUVZ_g-dnZ2d@posted.visi>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.eternal-september.org
U2FsdGVkX1+JAcEwl4b9MylZuop1tnLQ62ulKLVW+roR6J7LUE8QbVdZbRHnZwZim64zCI4VUGDSJgDD99
fvyGALtlobcDPOQQFEJzToaB2QCtGOeC5hkkGEf+PODyrB0MctUby/HMxfqK+JARd2JZisk6sbV+gk
X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Mon, 7 Sep 2009 02:44:57 +0000 (UTC)
In-Reply-To: <APSdnYrEo5fiXT_XnZ2dnUVZ_g-dnZ2d@posted.visi>
X-Auth-Sender: U2FsdGVkX18DC1c+SeKvUMjuZfa2RpGmhMn96/ejT29M5bFpI+wSQg==
Cancel-Lock: sha1:TvVg2TcojD1Q6otch2MBOBha0wE=
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3051

Bob wrote:
> Hi gang,
>   Anyone know of an sites of folks doing homebrew HD radio demods?  There
> are several sites out there for doing shortwave DRM (Digital Radio Mondale),
> but I'm wondering if any efforts have been made to build similar
> hardware/software for the HD radio broadcasting that takes place on the U.S
> AM broadcast band.
```

>
> Bob WB0POQ
>
>

BTW ya all know that the HD in HD radio does NOT stand for 'high def'.
(It means "hybrid digital").

From -7440282906487518272
X-Google-Thread: 241b302a50,6e8ab34d175c19e3,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-out.readnews.com!news-
xxxfer.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1249625101@panix.com>
Followup-To: poster
Date: 7 Sep 2009 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 10 Oct 2009 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1252303500@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1252303502 22198 166.84.1.2 (7 Sep 2009 06:05:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 7 Sep 2009 06:05:01 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
X-Original-Bytes: 2712
Xref: g2news2.google.com rec.radio.amateur.antenna:14134 rec.radio.amateur.dx:486
rec.radio.amateur.equipment:1776 rec.radio.amateur.homebrew:3052
rec.radio.amateur.misc:4513 rec.radio.amateur.policy:26705 rec.radio.info:956

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been
recently revived by an active moderation team. We are currently seeking
suitable information, FAQ, and bulletin articles from the entire

rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

```
 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month
```

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

```
From 4343049776069117283
X-Google-Thread: 241b302a50,12dda802caeed290
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!volia.net!news2.volia.net!feed-
A.news.volia.net!news.musoftware.de!wum.musoftware.de!weretis.net!
feeder2.news.weretis.net!feeder.eternal-september.org!eternal-september.org!not-
for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: So I have all this old radio equipment...
Date: Wed, 09 Sep 2009 21:45:14 -0400
Organization: A noiseless patient Spider
Lines: 59
Message-ID: <h89ljc$ass$1@news.eternal-september.org>
References: <d35bedeb-809c-4156-945c-e02e80aa2061@h2g2000yqg.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.eternal-september.org U2FsdGVkX19446yNzQnavY1///4Ps+tN+Im61QeLiUE/
2oYLbNGwo3SwMxSCWAMOZPY9fhhGsjZvh8C8P4Jt9BmvcgpCKgXULOKf0Af3x4uqoQfTXIqvpGBXPWusOu
TkHhu/YyLgBqiyCcOGaPhjupHw4lwbevD9
```

X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Thu, 10 Sep 2009 01:43:08 +0000 (UTC)
In-Reply-To: <d35bedeb-809c-4156-945c-e02e80aa2061@h2g2000yqg.googlegroups.com>
X-Auth-Sender: U2FsdGVkX18M6JUbQIGvtHq1l2a402Ro5Pt1FQQW4bhrmr4dWsKo2g==
Cancel-Lock: sha1:bZJSLatzq5PrydDh7aZ/u0wRe8I=
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3053

Jake wrote:
> Hey all,
>
> Many years ago (Late 80's) I was given a variety of radio equipment from a gentleman I knew. He was going to new guinea as a missionary and gave me a bunch of parts/projects/stuff.
>
> I have identified one of the (transcievers?) as an ARC-5. Also there is at least 2 more of these in parts, maybe more. Also a bunch of variable capacitors (the air-core metal finned ones) and various tubes and coils and other random stuff.
>
> This stuff has been sitting in my attic for 20 years, slowly collecting dust and corrosion. A long time ago, I was going to get my general class license. I never took the test, and just don't have much hobby time anymore.
>
> Does anyone know if this equipment is worth identifying and posting somewhere for sale/trade? And if so, where would I find people interested in this stuff?
>
> Thanks in advance :-D

The model number ARC-5 actually refers to a series of equipment designed for use in aircraft in the late 30's and into the 40's and 50's. This equipment consisted of a series of single band receivers and transmitters, modulators, and control boxes. Most of the units covered the frequency range from 3-9 mhz, some lower frequency units went down to 1.5 mhz, and some of the receivers went down as far as 190khz. There were also transmitters and receivers for the 100-150mhz region, but these used a different design.

The MF and HF receivers had a tube lineup of 12SK7 rf and if, 12K8 converter, 12SR7 detector/bfo, 12A6 af output. Some sets used a 12SF7 in the final IF/detector. The transmitters used 1626 oscillators driving 1625 finals, a 1629 eye tube was used as a frequency reference with a crystal. The VHF receivers used 9000 series tubes in the front end, the VHF transmitters used 1625's and 832's. Both single and dual tube modulators were made using 1625's.

A later series of ARC-5 type equipment used Loktal tubes. The receivers in these did NOT have BFO oscillators as they were used only for AM phone reception.

There were slight differences between the Navy and Army/Aircor units.

After the end of WWII and the Korean war the government surplus'ed large numbers of this equipment. Hams quickly found them to be a good resource for parts, and also used them 'as is' or modified. Today these units still show up at hamfest flea markets. Unmodified near mint condition ARC-5 units can easily fetch near or over $100 each on Eaybay these days, but you can still find units in much worse condition suitable for parts or experimenting with for much less. The newer sets using Loktal tubes were not made in as large numbers as the older ones, but they were quite plentiful in recent years. These sets are not in as much demand as the older 'classic' units.

If your ARC-5 radios are in near mint condition you might give any of the groups that restore WWII era planes a call. The Confederate Air Force comes to mind.

From 3999197428566706817
X-Google-Thread: 241b302a50,12dda802caeed290
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 10 Sep 2009 05:49:19 -0500
Date: Thu, 10 Sep 2009 10:49:18 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: So I have all this old radio equipment...
References: <d35bedeb-809c-4156-945c-e02e80aa2061@h2g2000yqg.googlegroups.com>
<h89ljc$ass$1@news.eternal-september.org>
In-Reply-To: <h89ljc$ass$1@news.eternal-september.org>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Q_KdnVxoLo0yRDXXnZ2dnUVZ_vednZ2d@bright.net>
Lines: 18
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-ZBho57Zf0Qj0drIRIN6USvK0FSjXjX+RExdynQSn2/
LafTvFXSuYs1JJnfi6qBBixjcMNkM8HafoAVP!
jwdaPrLjM+CpyrCnhWzMPVA2Jv2q7lXEBAw662uSiTqxrZSTSL/u0oBvKcYVtydHULXVHsQxTlZi!
F5hK0JOJIg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3054

Kenneth Scharf wrote:

>

> If your ARC-5 radios are in near mint condition you might give any of
> the groups that restore WWII era planes a call. The Confederate Air
> Force comes to mind.

Oops, I think you meant COMMEMORATIVE Air Force (due to "political
correctness" B.S.)...I do agree...these were used in WWII planes such as
the B-17 (if I recall correctly) so there is historical value if nothing
else...

http://www.commemorativeairforce.org/

Scott
N0EDV

From 1788632696825494452
X-Google-Thread: 241b302a50,12dda802caeed290
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 10 Sep 2009 05:52:22 -0500
Date: Thu, 10 Sep 2009 10:52:22 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: So I have all this old radio equipment...
References: <d35bedeb-809c-4156-945c-e02e80aa2061@h2g2000yqg.googlegroups.com>
<h89ljc$ass$1@news.eternal-september.org>
<Q_KdnVxoLo0yRDXXnZ2dnUVZ_vednZ2d@bright.net>
In-Reply-To: <Q_KdnVxoLo0yRDXXnZ2dnUVZ_vednZ2d@bright.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Q_KdnV9oLo37RzXXnZ2dnUVZ_vednZ2d@bright.net>
Lines: 36
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-yWdDjAIKLieQVac8wlx1LyeYEhYB2FVc12nUugVcbwV4fsvRi2HAj3o/
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+fwkOlGhfNfTxG+g6nOXsYo8cEuMIXn06mxIiTgFFPhgVeUvYEgW8PnH3k2sYQ9rlkrL/s/tOrrj!
17Uj8Zf5Qw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3055

Scott wrote:

> Kenneth Scharf wrote:
>
>>
>> If your ARC-5 radios are in near mint condition you might give any of
>> the groups that restore WWII era planes a call. The Confederate Air
>> Force comes to mind.
>
> Oops, I think you meant COMMEMORATIVE Air Force (due to "political
> correctness" B.S.)...I do agree...these were used in WWII planes such as
> the B-17 (if I recall correctly) so there is historical value if nothing
> else...
>
> http://www.commemorativeairforce.org/
>
> Scott
> N0EDV
>
>

Here is contact info if you would like to donate some or all to the CAF...

Donations Financial, Memorabilia, Aircraft or Parts

- If you wish to make a donation of World War II aircraft parts, or an aircraft, please contact rstenevik@cafhq.org.

- If you wish to donate artifacts or memorabilia from the World War II era, please contact exhibits@aahm.org.

- If you would like to make a monetary donation to assist in keeping CAF airplanes airworthy, please contact tbrown@cafhq.org.

Scott
N0EDV

From 9144992339802730735
X-Google-Thread: 241b302a50,6e76d34c8ad01dee
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!y42g2000yqb.googlegroups.com!not-for-mail
From: stan <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew HD?
Date: Thu, 10 Sep 2009 13:25:10 -0700 (PDT)
Organization: http://groups.google.com
Lines: 7
Message-ID: <527d1dba-6588-4e5d-ab0f-17c536267f34@y42g2000yqb.googlegroups.com>
References: <APSdnYrEo5fiXT_XnZ2dnUVZ_g-dnZ2d@posted.visi>
<h81s39$j12$1@news.eternal-september.org>

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NNTP-Posting-Host: 142.162.128.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1252614310 13629 127.0.0.1 (10 Sep 2009 20:25:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 10 Sep 2009 20:25:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y42g2000yqb.googlegroups.com; posting-host=142.162.128.246;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3056

On Sep 7, 12:46=A0am, Kenneth Scharf <wa2...@bellsouth.net> wrote:
>: Bob wrote
>
> BTW ya all know that the HD in HD radio does NOT stand for 'high def'.
> (It means "hybrid digital").

Gee thanks; was too embarrassed to ask!!!! :-)


From 1814371717344117631
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!
188.40.43.213.MISMATCH!feeder.eternal-september.org!eternal-september.org!not-for-
mail
From: "Paul_P" <REMOVE paul @ REMOVE ppinyot . REMOVEcom>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew HD?
Date: Thu, 10 Sep 2009 23:28:58 -0400
Organization: www.ppinyot.com
Lines: 17
Message-ID: <h8cg5s$7nk$1@news.eternal-september.org>
References: <APSdnYrEo5fiXT_XnZ2dnUVZ_g-dnZ2d@posted.visi>
<h81s39$j12$1@news.eternal-september.org> <527d1dba-6588-4e5d-
ab0f-17c536267f34@y42g2000yqb.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Trace: news.eternal-september.org U2FsdGVkX1+ITHig51dJe+Pwe1+/
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bZWmw3hcULt36FO1AhsSFc5+rhEMIUVIatbacuP9/UNnI=
X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Fri, 11 Sep 2009 03:29:01 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18005
In-Reply-To: <527d1dba-6588-4e5d-ab0f-17c536267f34@y42g2000yqb.googlegroups.com>
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X-Newsreader: Microsoft Windows Mail 6.0.6002.18005
X-Auth-Sender: U2FsdGVkX19bPIoTCC2+p0WYvp6t8zRQ
Cancel-Lock: sha1:ac3KvT0WzzZZYAEBJgSIS1jDQ/w=
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.homebrew:3057

"stan" <tsanford@nf.sympatico.ca> wrote in message
news:527d1dba-6588-4e5d-ab0f-17c536267f34@y42g2000yqb.googlegroups.com...
On Sep 7, 12:46 am, Kenneth Scharf <wa2...@bellsouth.net> wrote:
>: Bob wrote
>
> BTW ya all know that the HD in HD radio does NOT stand for 'high def'.
> (It means "hybrid digital").

Gee thanks; was too embarrassed to ask!!!! :-)

Please don't be. I have asked questions like that too.

Paul P.

From -1663154366678462459
X-Google-Thread: 241b302a50,bcd236c1b235ca80,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe22.iad.POSTED!7564ea0f!not-for-mail
From: " Ron" <ronnclair@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Antenna advice?
Lines: 21
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18005
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18005
Message-ID: <l9kqm.107$tG1.88@newsfe22.iad>
NNTP-Posting-Host: 24.226.69.101
X-Complaints-To: abuse@cogeco.net
X-Trace: newsfe22.iad 1252642513 24.226.69.101 (Fri, 11 Sep 2009 04:15:13 UTC)
NNTP-Posting-Date: Fri, 11 Sep 2009 04:15:13 UTC

Date: Fri, 11 Sep 2009 00:15:23 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:3058

Hi

I have a 50 ft tower just ready to throw up something to operate.

Cost is the problem but I have a lot of parts to build. I want to put up a
dipole (I have a manual all band tuner) and my question is should feed it
with ladder line or feed it with coax and then run each leg about 68 ft .

Second idea is I have an old aluminum omni antenna that used to have 3 traps
within it, however at that height it will come down quickly as this antenna
is meant to be on the ground (no ground planes) so I want to make this omni
as long as practically possible and tune it to utilize it as best possible.

Any suggestions? This is really all I have to work with. Only want to climb
this thing a couple times and hope its good for the winter.

Thanks
73s

Ron

From -7637997074572247456
X-Google-Thread: 241b302a50,bcd236c1b235ca80
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <l9kqm.107$tG1.88@newsfe22.iad>
Subject: Re: Antenna advice?
Lines: 31
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <KQtqm.2121$tl3.1663@nwrddc01.gnilink.net>
Date: Fri, 11 Sep 2009 15:15:54 GMT
NNTP-Posting-Host: 71.177.25.46
X-Complaints-To: abuse@verizon.net

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X-Trace: nwrddc01.gnilink.net 1252682154 71.177.25.46 (Fri, 11 Sep 2009 11:15:54
EDT)
NNTP-Posting-Date: Fri, 11 Sep 2009 11:15:54 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3059

" Ron" <ronnclair@yahoo.com> wrote in message
news:l9kqm.107$tG1.88@newsfe22.iad...
> Hi
>
> I have a 50 ft tower just ready to throw up something to operate.
>
> Cost is the problem but I have a lot of parts to build. I want to put up a
> dipole (I have a manual all band tuner) and my question is should feed it
> with ladder line or feed it with coax and then run each leg about 68 ft .
>
> Second idea is I have an old aluminum omni antenna that used to have 3
traps
> within it, however at that height it will come down quickly as this
antenna
> is meant to be on the ground (no ground planes) so I want to make this
omni
> as long as practically possible and tune it to utilize it as best
possible.
>
> Any suggestions? This is really all I have to work with. Only want to
climb
> this thing a couple times and hope its good for the winter.
>
A commercially built Yagi will usually work out of the box on a tower if you
measure carefully.  A G5RV will work without much fiddling.  The vertical
won't be worth anything on the tower.  If you want to shunt feed the tower
and extend it another 17 ft. you could probably do well on 40 and 30 meters
in the wee hours of the morning.  You should post in RRA Antenna newsgroup,
as there are experts who will have a lot of detail and time on their hands
and are fun to watch bicker.



From -4730100641391480525
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <9bf82a63-6ee1-41b7-ac22-46bf3da78a16@j39g2000yqh.googlegroups.com>
<102cc1c4-89e9-4838-aed8-918b3459512f@t2g2000yqn.googlegroups.com>
Subject: Re: Recording CW for a demonstration
Lines: 24
MIME-Version: 1.0
Content-Type: text/plain;
```

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     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <vTtqm.2122$tl3.186@nwrddc01.gnilink.net>
Date: Fri, 11 Sep 2009 15:18:51 GMT
NNTP-Posting-Host: 71.177.25.46
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1252682331 71.177.25.46 (Fri, 11 Sep 2009 11:18:51
EDT)
NNTP-Posting-Date: Fri, 11 Sep 2009 11:18:51 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3060

"fazamy" <fazamy@aol.com> wrote in message
news:102cc1c4-89e9-4838-aed8-918b3459512f@t2g2000yqn.googlegroups.com...
On Sep 5, 12:12 pm, fazamy <faz...@aol.com> wrote:
> If this is the incorrect group, then please send me to the proper
> one. I want to demonstrate the sound of cw with my own message.
>
> I have a sound card. How can I create a wav file that can be saved on
> a flash drive? OR
> By using DM780 or MultiPSK, can I create a cw message that can be
> saved on a flash drive?
>
> Tnx and 73,
> KB2AMY
> Evan

Guys,

I figured it out by myself.  Audacity is the software I can use to do
my project.
TU,
KB2AMY

I like that too.  Just record some real QSO off the air.




From 4840696336391187497
X-Google-Thread: 241b302a50,bcd236c1b235ca80
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder1.cambriumusenet.nl!
feed.tweaknews.nl!193.201.147.73.MISMATCH!border2.nntp.ams.giganews.com!
nntp.giganews.com!news.musoftware.de!wum.musoftware.de!weretis.net!
feeder2.news.weretis.net!feeder.eternal-september.org!eternal-september.org!not-
for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
```

Subject: Re: Antenna advice?
Date: Sun, 13 Sep 2009 12:17:34 -0400
Organization: A noiseless patient Spider
Lines: 39
Message-ID: <h8j5qn$rsj$1@news.eternal-september.org>
References: <l9kqm.107$tG1.88@newsfe22.iad>
<KQtqm.2121$tl3.1663@nwrddc01.gnilink.net>
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fKk99r4EcAI=
X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Sun, 13 Sep 2009 16:15:19 +0000 (UTC)
In-Reply-To: <KQtqm.2121$tl3.1663@nwrddc01.gnilink.net>
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Cancel-Lock: sha1:364UGev48A/4lUlLGvTDnkMFwC4=
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3061

JB wrote:
> " Ron" <ronnclair@yahoo.com> wrote in message
> news:l9kqm.107$tG1.88@newsfe22.iad...
>> Hi
>>
>> I have a 50 ft tower just ready to throw up something to operate.
>>
>> Cost is the problem but I have a lot of parts to build. I want to put up a
>> dipole (I have a manual all band tuner) and my question is should feed it
>> with ladder line or feed it with coax and then run each leg about 68 ft .
>>
>> Second idea is I have an old aluminum omni antenna that used to have 3
> traps
>> within it, however at that height it will come down quickly as this
> antenna
>> is meant to be on the ground (no ground planes) so I want to make this
> omni
>> as long as practically possible and tune it to utilize it as best
> possible.
>> Any suggestions? This is really all I have to work with. Only want to
> climb
>> this thing a couple times and hope its good for the winter.
>>
> A commercially built Yagi will usually work out of the box on a tower if you
> measure carefully. A G5RV will work without much fiddling. The vertical
> won't be worth anything on the tower. If you want to shunt feed the tower
> and extend it another 17 ft. you could probably do well on 40 and 30 meters
> in the wee hours of the morning. You should post in RRA Antenna newsgroup,
> as there are experts who will have a lot of detail and time on their hands
> and are fun to watch bicker.
>
While putting a vertical on a tower seems a waste of a tower, verticals

DO work better on a tower if they are of the half wave length center feed kind, such as the GAP Titan. I have mine on a short tower against the house so that the base of the antenna is just above the roof line. The antenna is on a tilt over mount so I can lower against the roof whenever a tropical cyclone blows through here. The antenna works better up 25 feet than ground mounted (and the kids can't trip over it in the back yard).

From -3327722016407628O
X-Google-Thread: 241b302a50,bcd236c1b235ca80
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
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Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <l9kqm.107$tG1.88@newsfe22.iad> <KQtqm.2121$tl3.1663@nwrddc01.gnilink.net> <h8j5qn$rsj$1@news.eternal-september.org>
Subject: Re: Antenna advice?
Lines: 9
MIME-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <_o9rm.2109$Jd7.1178@nwrddc02.gnilink.net>
Date: Sun, 13 Sep 2009 16:50:02 GMT
NNTP-Posting-Host: 71.177.25.46
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1252860602 71.177.25.46 (Sun, 13 Sep 2009 12:50:02 EDT)
NNTP-Posting-Date: Sun, 13 Sep 2009 12:50:02 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3062

A 4btv trap vertical or the like would be a different matter, requiring some fiddling. A Yagi and (or) G5RV would require a minimum of fiddling. A ladder line fed homemade G5RV in inverted vee would be the least expensive I could think of. A used 3 element Yagis can be cleaned up and re-used later..

The trap vertical that was mentioned would probably be a real hassle to tune-up on the tower.

From -2251316208283565145
X-Google-Thread: 241b302a50,bcd236c1b235ca80
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
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From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna advice?
Date: Sun, 13 Sep 2009 15:18:28 -0400
Organization: A noiseless patient Spider
Lines: 16
Message-ID: <h8jgdt$cuf$1@news.eternal-september.org>
References: <l9kqm.107$tG1.88@newsfe22.iad> <KQtqm.2121$tl3.1663@nwrddc01.gnilink.net> <h8j5qn$rsj$1@news.eternal-september.org> <_o9rm.2109$Jd7.1178@nwrddc02.gnilink.net>
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NNTP-Posting-Date: Sun, 13 Sep 2009 19:16:14 +0000 (UTC)
In-Reply-To: <_o9rm.2109$Jd7.1178@nwrddc02.gnilink.net>
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User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3063

JB wrote:

> A 4btv trap vertical or the like would be a different matter, requiring some fiddling. A Yagi and (or) G5RV would require a minimum of fiddling. A ladder line fed homemade G5RV in inverted vee would be the least expensive I could think of. A used 3 element Yagis can be cleaned up and re-used later..
>
> The trap vertical that was mentioned would probably be a real hassle to tune-up on the tower.
>

The GAP Titan can be dumped out of the box, assembled (use a tape measure to get everything as per the manual) and put up without ANY fooling around. You *MIGHT* have to make a minor adjustment to get the 80 and 40 meter bands right with the lowest SWR centered in the middle of the band segment that you operate most, but mine came out perfect using the factory directions.

From 2279574466982658230

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <l9kqm.107$tG1.88@newsfe22.iad>
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september.org> <_o9rm.2109$Jd7.1178@nwrddc02.gnilink.net>
<h8jgdt$cuf$1@news.eternal-september.org>
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Lines: 24
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Content-Transfer-Encoding: 7bit
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <gbcrm.2324$tl3.1745@nwrddc01.gnilink.net>
Date: Sun, 13 Sep 2009 20:00:12 GMT
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EDT)
NNTP-Posting-Date: Sun, 13 Sep 2009 16:00:12 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3064

"Kenneth Scharf" <wa2mze@bellsouth.net> wrote in message
news:h8jgdt$cuf$1@news.eternal-september.org...
> JB wrote:
> > A 4btv trap vertical or the like would be a different matter, requiring
some
> > fiddling. A Yagi and (or) G5RV would require a minimum of fiddling. A
> > ladder line fed homemade G5RV in inverted vee would be the least
expensive I
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> fooling around. You *MIGHT* have to make a minor adjustment to get the
> 80 and 40 meter bands right with the lowest SWR centered in the middle
> of the band segment that you operate most, but mine came out perfect
> using the factory directions.

You are telling me that the measurements are the same for tower mounting?

From -7571268369137298398
X-Google-Thread: 241b302a50,40a98bc3e06c46f3,start
X-Google-Attributes: gid241b302a50,public,usenet
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From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FS GR slotted line and accesories
Date: Mon, 14 Sep 2009 22:42:19 -0500
Organization: A noiseless patient Spider
Lines: 32
Message-ID: <h8n2ej$2gb$1@news.eternal-september.org>
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Xref: g2news2.google.com rec.radio.amateur.homebrew:3065

I have the following General Radio equipment for sale. All of it is in very good condition and working:

The following items I would like to sell as a set:

1	874-LB	55 cm Slotted Line
1	874-LV	Micrometer for the slotted line
2	874-LTL	Trombone lines
1	874-GA	Adjustable Attenuator
1	874-L30	30 cm Air Line
3	874-L20	20 cm Air Lines
4	874-L10	10 cm Air Lines
1	874-F1000	1000 MHz Low Pass Filter
1	874-L500	500 MHz Low Pass Filter
1	874-D50	50 cm Adjustable Stub
1	874-D50L	50 cm Adjustable Stub
1	874-D20	20 cm Adjustable Stub
2	874-LA	Adjustable Line

```
5    874-T        Tee's
1    874-EL        Elbow
2    874-K        Coupling Capacitors
5    Small diameter cables with GR conn.'s on both ends
2    Small diameter cables with GR conn. on one end and BNC on other
1    Small diameter cable with GR conn. on one end and banana plugs on
other
5    Large diameter cables with GR conn. on both ends
```

I will accept any reasonable offer plus postage. I can send pictures
if requested.

I can be reached at either wa0goz@arrl.net or 651-426-4144. Ask for
Henry.

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From -1851849950578998803
X-Google-Thread: 241b302a50,bcd236c1b235ca80
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
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Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe10.iad.POSTED!7564ea0f!not-for-mail
From: " Ron" <ronnclair@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <l9kqm.107$tG1.88@newsfe22.iad>
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september.org> <_o9rm.2109$Jd7.1178@nwrddc02.gnilink.net>
<h8jgdt$cuf$1@news.eternal-september.org>
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18005
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18005
Message-ID: <jVMrm.36411$u76.35194@newsfe10.iad>
NNTP-Posting-Host: 24.226.69.101
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X-Trace: newsfe10.iad 1253022415 24.226.69.101 (Tue, 15 Sep 2009 13:46:55 UTC)
NNTP-Posting-Date: Tue, 15 Sep 2009 13:46:55 UTC
Date: Tue, 15 Sep 2009 09:47:10 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:3066
```

Thank you kindly for all the info

I have a lot of wire, can make any dipole, I have this 50ft tower that I want to make a dipole and omni on the top.

The omni I want to be tunable so I can use it on other bands such as marine band, to communicate with my boat

I have the manual tuner with reflected power measurements, so that is ok. I want to know what is better, the dipole fed with coax or fed with ladder line. The coax will run out the house, past the alumninum siding and be taped to the tower, the ladder line I can run out the house, past the same aluminum siding but can keep away from the tower about 4 feet until it reaches the top where the dipole will split it and run the longest length I can (I have the room) so that I can utilize all the bands with my tuner.

All suggestions and advice are excellent and I hope to hear and learn more

thanks

73

"JB" <nospam@goofball.net> wrote in message
news:gbcrm.2324$tl3.1745@nwrddc01.gnilink.net...
>
> "Kenneth Scharf" <wa2mze@bellsouth.net> wrote in message
> news:h8jgdt$cuf$1@news.eternal-september.org...
>> JB wrote:
>> > A 4btv trap vertical or the like would be a different matter, requiring
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>> of the band segment that you operate most, but mine came out perfect
>> using the factory directions.
>
> You are telling me that the measurements are the same for tower mounting?
>

From 3337731421164431673
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X-Google-NewGroupId: yes
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69.16.185.11.MISMATCH!npeer01.iad.highwinds-media.com!news.highwinds-media.com!
feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!
gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <l9kqm.107$tG1.88@newsfe22.iad>
<KQtqm.2121$tl3.1663@nwrddc01.gnilink.net> <h8j5qn$rsj$1@news.eternal-
september.org> <_o9rm.2109$Jd7.1178@nwrddc02.gnilink.net>
<h8jgdt$cuf$1@news.eternal-september.org>
<gbcrm.2324$tl3.1745@nwrddc01.gnilink.net> <jVMrm.36411$u76.35194@newsfe10.iad>
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Lines: 10
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <cQNrm.2522$tl3.1595@nwrddc01.gnilink.net>
Date: Tue, 15 Sep 2009 14:49:44 GMT
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X-Trace: nwrddc01.gnilink.net 1253026184 173.55.72.22 (Tue, 15 Sep 2009 10:49:44
EDT)
NNTP-Posting-Date: Tue, 15 Sep 2009 10:49:44 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3067

A fan dipole has multiple dipoles with the same feed using spreader insulators at the end of each shorter dipole. Full size 40 meter dipole usually works on 15 with a tuner as it is not far from a 3/4 wave, and 80 might work on 10.   I always wanted a full size cage dipole for 80 and 75. This has several wires for broad band operation.   HF Discone is another interesting broadband antenna. You could use the tower as a support but takes up some space.

Good luck

From -255473111912283579

X-Google-Thread: 241b302a50,bcd236c1b235ca80
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
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feeder2.news.elisa.fi!uutiset.elisa.fi!7564ea0f!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna advice?
Message-ID: <hkbva5tj6066rplvkvpuqb768ktetknj2o@4ax.com>
References: <l9kqm.107$tG1.88@newsfe22.iad>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
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NNTP-Posting-Host: 85.77.249.230
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1253028783 85.77.249.230 (Tue, 15 Sep 2009 18:33:03 EEST)
NNTP-Posting-Date: Tue, 15 Sep 2009 18:33:03 EEST
Organization: Elisa Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:3068

On Fri, 11 Sep 2009 00:15:23 -0400, " Ron" <ronnclair@yahoo.com>
wrote:

>
>I have a 50 ft tower just ready to throw up something to operate.
>
>Cost is the problem but I have a lot of parts to build. I want to put up a
>dipole (I have a manual all band tuner) and my question is should feed it
>with ladder line or feed it with coax and then run each leg about 68 ft .

I have a single tree in the middle at my site and I use it as the feedpoint for an inverted-V antenna. Each segment is about 20 m long from the feed point for 3.5 MHz operation. Also there are two 10 m segments in different directions for 7 (and 21 MHz). There are some ferrite toroids on the coax close to the feed point as a current balun.

I also experimented with two 5 m segments from the same feed point into slightly different directions for 14 MHz operation. Unfortunately, it was quite hard to find the suitable length for these segments using any SWR measurements and by using a noise bridge, I had to extend the segments with nearly a meter, in order to get the SWR down to operate without a tuner. Of course this varies from site to site.

Paul OH3LWR

From 6940310552942081901
X-Google-Thread: 241b302a50,ccd073b0af7f3448,start
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gnilink.net!nx02.iad01.newshosting.com!newshosting.com!216.196.98.140.MISMATCH!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
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news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 15 Sep 2009 11:13:51 -0500
From: Andy GD1MIP <Andy.GD1MIP.4f57286@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Power supply transformer advice
Date: Tue, 15 Sep 2009 17:12:41 +0100
Message-ID: <Andy.GD1MIP.4f57286@radiobanter.com>
Organization: RadioBanter.com
Lines: 37
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
U9DzyiIPCymjU9u+oy6Yq9OY+FIqImMnzzHh9oABDOzyoSGx7LvKMUm8naicdNPK4IEUH3D2WIj+Mg8!
WeuE9Jceff6GSS7GaKBRwBFIU4zXVbSl0mmNdNvMZ651NlH7+Q57ZdyE6n+WHAnP5X02RNoYKsAJ!
K2VH4cjRUQ==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Lines: 21
Xref: g2news2.google.com rec.radio.amateur.homebrew:3069

Hi I am building a (240volt in) 13.8 volt (out) PSU along the lines of this plan..
http://www.warc.org.uk/proj_psu.php it is very similar to the old Marchwood practical wireless unit from the early 1980's using 2n3055 transistors.

My question. The spec says the transformer must have a secondary of 16.5 volt. Now when I last built a PSU using a similar plan the transformer output could be much higher, in the region of 15 to 20 volts.

I have a Talema branded toroid I want to use, its spec is as follows (from maker)
+++++
Toroidal transformer type 5028-P3S03:
Prim: 0-110V-230V-240V orange-yellow-violet-blue
Sec1: 20V/6A green-red
Sec2: 20V/6A black-white

Sec3: 55V/2,5A braun-braun
If you use only the 2x20V you can get out 9A of each winding (no load on the 55V)
+++++

as you can see the secondary output is 20 volt, now folks do you think this transformer will suffice at 20 volts, or should I removed a little winding to bring it down?

73 Andy

PS the variac is just there for scale.

--
Andy GD1MIP

From 9054602039403842602
X-Google-Thread: 241b302a50,ccd073b0af7f3448
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!STARBAND.NET-a2kHrUvQQWlmc!not-for-mail
From: You <you@shadow.orgs>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply transformer advice
Organization: Shadow.orgs
References: <Andy.GD1MIP.4f57286@radiobanter.com>
User-Agent: MT-NewsWatcher/3.5.3b2 (PPC Mac OS X)
Date: Tue, 15 Sep 2009 08:52:05 -0800
Message-ID: <you-9FC9B9.08520115092009@unknown.usenetserver.com>
X-Complaints-To: abuse@usenetserver.com
Lines: 43
X-Trace: 50a434aafc56b31eb3df325189
Xref: g2news2.google.com rec.radio.amateur.homebrew:3070

In article <Andy.GD1MIP.4f57286@radiobanter.com>,
Andy GD1MIP <Andy.GD1MIP.4f57286@radiobanter.com> wrote:

> Hi I am building a (240volt in) 13.8 volt (out) PSU along the lines of
> this plan..
> http://www.warc.org.uk/proj_psu.php it is very similar to the old
> Marchwood practical wireless unit from the early 1980's using 2n3055
> transistors.
>
> My question. The spec says the transformer must have a secondary of
> 16.5 volt. Now when I last built a PSU using a similar plan the

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> volts.
>
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> (from maker)
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> Sec1: 20V/6A green-red
> Sec2: 20V/6A black-white
> Sec3: 55V/2,5A braun-braun
> If you use only the 2x20V you can get out 9A of each winding (no load
> on the 55V)
> +++++
>
>
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> this transformer will suffice at 20 volts, or should I removed a little
> winding to bring it down?
>
> 73 Andy
>
> PS the variac is just there for scale.

By using it the way it is your only design worry is that you will be dumping more power across the 2N3055 Regulator Transistors, and will need more of them, for the same current output, due to Dissipation Limits of the heatsinks and transistor cases, because of the higher Voltage Drop across the regulators. Also recognise that you will have a much higher DC Voltage going into the regulators, after some Capacitor Filtering. Likely up near 25 Vdc, which means you will be dumping roughly 50% of the provided transformer power in the Regulation System.

From -8540760295946495392
X-Google-Thread: 241b302a50,ccd073b0af7f3448
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 15 Sep 2009 12:33:11 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Power supply transformer advice
Newsgroups: rec.radio.amateur.homebrew
References: <Andy.GD1MIP.4f57286@radiobanter.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <MuqdnWq3S8xFUjLXnZ2dnUVZ_tidnZ2d@web-ster.com>
Date: Tue, 15 Sep 2009 12:33:12 -0500

Lines: 42
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-m9y9BztHPX8g7P41ZruESScf+xAQo+0bV9uYYtOwy5Pvn2lFg/JtOaF0qFCMR0/Zpg5FVn2e9hpFfSJ!N3kN+v0w37gSdx8RaI9hHZcPDXOKutZfqIUq/6lZ6sX8rgjGN2QTCitoleyM9bERvUdOOaLTzfuj!ggrhF1LAZL6ETRQ=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3071

On Tue, 15 Sep 2009 17:12:41 +0100, Andy GD1MIP wrote:

> Hi I am building a (240volt in) 13.8 volt (out) PSU along the lines of this plan..
> http://www.warc.org.uk/proj_psu.php it is very similar to the old Marchwood practical wireless unit from the early 1980's using 2n3055 transistors.
>
> My question. The spec says the transformer must have a secondary of 16.5 volt. Now when I last built a PSU using a similar plan the transformer output could be much higher, in the region of 15 to 20 volts.
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> Sec2: 20V/6A black-white
> Sec3: 55V/2,5A braun-braun
> If you use only the 2x20V you can get out 9A of each winding (no load on the 55V)
> +++++
>
>
> as you can see the secondary output is 20 volt, now folks do you think this transformer will suffice at 20 volts, or should I removed a little winding to bring it down?
>
> 73 Andy
>
> PS the variac is just there for scale.

If you _really_ want to do some work you could remove all the secondary windings and replace them with a single 16V winding; that'll give you 25% more current just from the drop to 16V from 20V, plus whatever extra power you can take because you used the space formerly taken up by the 55V winding to put in bigger wire.

Lots -o- work, though.

--
www.wescottdesign.com

From 2665554993825186150
X-Google-Thread: 241b302a50,ccd073b0af7f3448
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 15 Sep 2009 12:53:02 -0500
From: "Dave M" <masondg4499@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Andy.GD1MIP.4f57286@radiobanter.com>
Subject: Re: Power supply transformer advice
Date: Tue, 15 Sep 2009 13:53:02 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <eYWdnR7lseHjSTLXnZ2dnUVZ_uKdnZ2d@giganews.com>
Lines: 63
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X-Trace: sv3-flS54Fjx8EzTd6P/
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DOta6vdIMTWFj1nKePubbCNWviES417maxk2rNQY68ybUkVX0mrPh/obs5/T+/3fGc2S5qqO6A==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3072

"Andy GD1MIP" <Andy.GD1MIP.4f57286@radiobanter.com> wrote in message
news:Andy.GD1MIP.4f57286@radiobanter.com...
>
> Hi I am building a (240volt in) 13.8 volt (out) PSU along the lines of
> this plan..
> http://www.warc.org.uk/proj_psu.php it is very similar to the old
> Marchwood practical wireless unit from the early 1980's using 2n3055
> transistors.
>
> My question. The spec says the transformer must have a secondary of
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> Prim: 0-110V-230V-240V orange-yellow-violet-blue
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> Sec2: 20V/6A black-white
> Sec3: 55V/2,5A braun-braun
> If you use only the 2x20V you can get out 9A of each winding (no load
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> +++++
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> as you can see the secondary output is 20 volt, now folks do you think
> this transformer will suffice at 20 volts, or should I removed a little
> winding to bring it down?
>
> 73 Andy
>
> PS the variac is just there for scale.
>
>
>
>
> --
> Andy GD1MIP

The transformer will work in the project that you are looking at, however, the pass transistors will run significantly hotter than if you used the transformer voltage specified.   Your transformer will produce about 28VDC after the rectifier/filter. The pass transistors must drop the difference between 28 VDC and the output voltage (13.8VDC), which is roughly 14 VDC. Multiply that by the output current to get the power that the pass transistors must dissipate. Watts = Voltage * Current. Watts create heat, which must be dissipated by the heatsink.
Since you're wanting some respectable current from this project, you could do as you suggested; remove a few windings from the 20VAC secondaries to reduce the power that the pass transistors dissipate. But, depending on the construction of the transformer, it might be difficult to do.
Another way to reduce the voltage from the transformer is to put a "bucking" transformer in the primary of your transformer to reduce the primary voltage to it.

--
Dave M
masondg44 at comcast dot net

From -2188150930271149223
X-Google-Thread: 241b302a50,ccd073b0af7f3448
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!v2g2000vbb.googlegroups.com!not-for-

```
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply transformer advice
Date: Wed, 16 Sep 2009 04:20:17 -0700 (PDT)
Organization: http://groups.google.com
Lines: 46
Message-ID: <bcf97ebf-a53e-4193-9eed-8daa96d244fc@v2g2000vbb.googlegroups.com>
References: <Andy.GD1MIP.4f57286@radiobanter.com>
NNTP-Posting-Host: 75.191.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1253100018 20555 127.0.0.1 (16 Sep 2009 11:20:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 16 Sep 2009 11:20:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v2g2000vbb.googlegroups.com; posting-host=75.191.176.71;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.3)
     Gecko/20090824 Firefox/3.5.3 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3073

On Sep 15, 12:12=A0pm, Andy GD1MIP <Andy.GD1MIP.4f57...@radiobanter.com>
wrote:
> Hi =A0I am building a (240volt in) 13.8 volt (out) PSU =A0along the lines=
 of
> this plan..http://www.warc.org.uk/proj_psu.php=A0it is very similar to th=
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> Marchwood practical wireless unit from the early 1980's using 2n3055
> transistors.
>
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> Sec2: 20V/6A black-white
> Sec3: 55V/2,5A braun-braun
> If you use only the 2x20V you can get out 9A of each winding (no load
> on the 55V)
> +++++
>
> as you can see the secondary output is 20 volt, =A0now folks do you think
> this transformer will suffice at 20 volts, =A0or should I removed a littl=
e
```

> winding to bring it down?
>
> 73 Andy
>
> PS the variac is just there for scale.
>
> --
> Andy GD1MIP

As others have indicated the increased voltage will cause the transistors to have to dissipate more power but the result will be better regulation. I recommend that you don't use the 3055 transistors, there are better choices. I blew many of them before replacing them with ECG 181, there is a 2N number this is equivalent to but I cant remember it right now.

Jimmie

```
From 8793619786229303244
X-Google-Thread: 241b302a50,ccd073b0af7f3448
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
newshosting.com!216.196.98.140.MISMATCH!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 16 Sep 2009 06:44:37 -0500
Date: Wed, 16 Sep 2009 06:41:10 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply transformer advice
References: <Andy.GD1MIP.4f57286@radiobanter.com>
In-Reply-To: <Andy.GD1MIP.4f57286@radiobanter.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <jfqdnc3XF744Ui3XnZ2dnUVZ_u2dnZ2d@giganews.com>
Lines: 41
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X-Trace: sv3-
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fgIlWicP7H5KzFxd/kKgzJgbiR47UA5gkb/HHi/xMPaE4S5AQSue3pt/fyw8OvQKoggf18LkRvk=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:3074

Andy GD1MIP wrote:
> Hi I am building a (240volt in) 13.8 volt (out) PSU along the lines of
> this plan..
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>
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> Sec2: 20V/6A black-white
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>
>
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>
> 73 Andy
>
> PS the variac is just there for scale.
>
>
>
>
Find a 240/50 volt transformer , and wire the 50 volt output in
antiphase with the mains input to the target transformer, and don't fool
with windings at all....

Brian W

From 511531839501156048
X-Google-Thread: 241b302a50,ccd073b0af7f3448
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!z28g2000vbl.googlegroups.com!not-for-mail
From: stan <tsanford@nf.sympatico.ca>

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply transformer advice
Date: Wed, 16 Sep 2009 07:48:51 -0700 (PDT)
Organization: http://groups.google.com
Lines: 69
Message-ID: <83f35930-e6f3-406b-a32a-c36590306432@z28g2000vbl.googlegroups.com>
References: <Andy.GD1MIP.4f57286@radiobanter.com>
<jfqdnc3XF744Ui3XnZ2dnUVZ_u2dnZ2d@giganews.com>
NNTP-Posting-Host: 142.162.128.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1253112532 32046 127.0.0.1 (16 Sep 2009 14:48:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 16 Sep 2009 14:48:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z28g2000vbl.googlegroups.com; posting-host=142.162.128.246;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3075

On Sep 16, 9:41=A0am, brian whatcott <betw...@sbcglobal.net> wrote:
> Andy GD1MIP wrote:
> > Hi =A0I am building a (240volt in) 13.8 volt (out) PSU =A0along the lin=
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> > this plan..
> >http://www.warc.org.uk/proj_psu.php=A0it is very similar to the old
> > Marchwood practical wireless unit from the early 1980's using 2n3055
> > transistors.
>
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> > Prim: 0-110V-230V-240V orange-yellow-violet-blue
> > Sec1: 20V/6A green-red
> > Sec2: 20V/6A black-white
> > Sec3: 55V/2,5A braun-braun
> > If you use only the 2x20V you can get out 9A of each winding (no load
> > on the 55V)
> > +++++
>
> > as you can see the secondary output is 20 volt, =A0now folks do you thi=
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> > this transformer will suffice at 20 volts, =A0or should I removed a lit=
tle

> > winding to bring it down?
>
> > 73 Andy
>
> > PS the variac is just there for scale.
>
> Find a 240/50 volt transformer , and wire the 50 volt output in
> antiphase with the mains input to the target transformer, and don't fool
> with windings at all....
>
> Brian W- Hide quoted text -
>
> - Show quoted text -

240 volt input with 55 volts (antiphase) i.e. 'bucking' the 240 input
is 240 minus 55 =3D 185 volts. The input voltage being educed from 240
to 185 volts. And 185/240 =3D 0.77

With that the two remaining secondaries would be 20 x 0.77 =3D 15.4
volts. Maybe that's a little bit too low for what is needed? But worth
a try?

But also if the 55 and 240 windings are connected in series (aiding or
in-phase) and 240 is applied to that; we could have a 240 + 55 =3D 295
winding.

Then with 240 connected to what is now, in effect, a 295 volt winding?
So 240/295 =3D 0.81
And 20 x 0.81 =3D 16.27 Very close to 16.5?

Also' and if NOT with two 6 amp rated secondaries I would certainly
'try' getting 9 amps from each of them.

BTW the insulation of any secondary connected in series with the mains
voltage primary must have adequate insulation to withstand peak mains
voltages (about 340 v AC). I haven't done this at 140 volts but have
done it at 120 volts; by connecting 12 volt secondaries in series with
the input to simulate voltage increase/decrease of plus/minus 10% etc.
It worked fine when I didn't have a variac!

From -6556022162188420215
X-Google-Thread: 241b302a50,ccd073b0af7f3448
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 16 Sep 2009 19:39:56 -0500
Date: Wed, 16 Sep 2009 19:36:55 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net

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User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply transformer advice
References: <Andy.GD1MIP.4f57286@radiobanter.com>
<jfqdnc3XF744Ui3XnZ2dnUVZ_u2dnZ2d@giganews.com> <83f35930-e6f3-406b-a32a-
c36590306432@z28g2000vbl.googlegroups.com>
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X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3076



>> Andy GD1MIP wrote:
>>> Hi  I am building a (240volt in) 13.8 volt (out) PSU ...
 >>>  the transformer must have a secondary of
>>> 16.5 volt. ...
>>> I have a Talema branded toroid ...
>>> Toroidal transformer type 5028-P3S03:
>>> Prim: 0-110V-230V-240V orange-yellow-violet-blue
>>> Sec1: 20V/6A green-red
>>> Sec2: 20V/6A black-white
>>> Sec3: 55V/2,5A braun-braun
>>> If you use only the 2x20V you can get out 9A of each winding (no load
>>> on the 55V)
>>> +++++
>>>...do you think
>>> this transformer will suffice at 20 volts?...

>>> 73 Andy

[brian]
>> Find a 240/50 volt transformer , and wire the 50 volt output in
>> antiphase with the mains input to the target transformer, and don't fool
>> with windings at all....

>  [Stan]
> 240 volt input with 55 volts (antiphase) i.e. 'bucking' the 240 input
> is 240 minus 55 = 185 volts. The  input voltage being reduced from 240
> to 185 volts. And 185/240 = 0.77
```

Make that 240 V AC less 50 V AC = 190 V AC input to the toroid.

That would provide 190/240 X 20 volts = 15.83V   Close enough.
>
[Stan]
> With that the two remaining secondaries would be 20 x 0.77 = 15.4
> volts. Maybe that's a little bit too low for what is needed? But worth
> a try?
>
> But also if the 55 and 240 windings are connected in series (aiding or
> in-phase) and 240 is applied to that; we could have a 240 + 55 = 295
> winding.
>
> Then with 240 connected to what is now, in effect, a 295 volt winding?
> So 240/295 = 0.81
> And 20 x 0.81 = 16.27 Very close to 16.5?

Well, let's see now.   If you choose that rather intriguing approach
of applying its own secondary to buck the input, what might the 20 volts
outputs really become?
240 volts input into a 240 + 55 volt winding pair means that the 240
volt input winding gets 240 / 295 volts, so the outputs would be
(50 V nominal) = 40.7 volts
and
(20 volt nominal) = 16.3 volts

But WAIT: that 50 volt winding does NOT develop 50 volts, but rather
40.7 volts so the 240 V input winding gets 240V - 40.7 volts = 199.3 V
So the 20 Volt output is 199.3/240 volt X 20 V = 16.6 Volts....(or a
smidgeon higher?) This sounds good!
>
[Stan]
> Also' and if NOT with two 6 amp rated secondaries I would certainly
> 'try' getting 9 amps from each of them.
>
> BTW the insulation of any secondary connected in series with the mains
> voltage primary must have adequate insulation to withstand peak mains
> voltages (about 340 v AC). I haven't done this at 140 volts but have
> done it at 120 volts; by connecting 12 volt secondaries in series with
> the input to simulate voltage increase/decrease of plus/minus 10% etc.
> It worked fine when I didn't have a variac!

Actually, with careful wiring, this concern for increased PDs on the
secondaries is unneeded.   If the secondary bucking windings are placed
on the neutral end of the supply, then the increase in the peak primary
PD is percentage wise quite small....

In summary, using secondary windings of the SAME transformer to buck the
mains input is a neat idea if you can find the ratios you need, and
doesn't seem to add much risk to the enterprise

Brian W

```
From -5827973758698336864
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X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
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news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 16 Sep 2009 19:49:34 -0500
Date: Wed, 16 Sep 2009 19:46:26 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply transformer advice
References: <Andy.GD1MIP.4f57286@radiobanter.com>
In-Reply-To: <Andy.GD1MIP.4f57286@radiobanter.com>
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X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3077
```

Andy GD1MIP wrote:

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Now that the ideas are cooking.... consider this.
1100 watt defunct microwaves can be had for the asking.
They have a particular transformer core design that makes it easy to saw off the 1 KV secondary, and with the generous core window, you could wind 18 to 20 turns of wire good for 10 amps. The turns per volt is not much over 1 tpv....   And you have a decent rectifier diode for the

spares box too....

Admitted - a bandsaw in the workshop makes a 15 minute job out of this
transformer hack.(if you don't nick the primary)

Brian W
KA5WOG

From -7148862087234029810
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!s6g2000vbp.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply transformer advice
Date: Thu, 17 Sep 2009 07:52:23 -0700 (PDT)
Organization: http://groups.google.com
Lines: 30
Message-ID: <08f741b1-a4c8-4dcd-b060-d3bc9d8d1118@s6g2000vbp.googlegroups.com>
References: <Andy.GD1MIP.4f57286@radiobanter.com> <EK-dnVIdrMYCGizXnZ2dnUVZ_oSdnZ2d@giganews.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 17 Sep 2009 14:52:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s6g2000vbp.googlegroups.com; posting-host=75.191.176.71;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.3)
Gecko/20090824 Firefox/3.5.3 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3078

On Sep 16, 8:46=A0pm, brian whatcott <betw...@sbcglobal.net> wrote:
> Andy GD1MIP wrote:
> > Hi =A0I am building a (240volt in) 13.8 volt (out) PSU ...
>
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>
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>
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>
> Brian W
> KA5WOG

Brian, I have done this with old uwave transformers, the ones I could knock out the magnetic shunt with a hammer and punch, but on the newer ovens the shunt is a weld. Will these still work?

Jimmie

From 980003089331250904
X-Google-Thread: 241b302a50,ccd073b0af7f3448
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X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Thu, 17 Sep 2009 11:59:24 -0500
Date: Thu, 17 Sep 2009 11:55:59 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply transformer advice
References: <Andy.GD1MIP.4f57286@radiobanter.com> <EK-dnVIdrMYCGizXnZ2dnUVZ_oSdnZ2d@giganews.com> <08f741b1-a4c8-4dcd-b060-d3bc9d8d1118@s6g2000vbp.googlegroups.com>
In-Reply-To: <08f741b1-a4c8-4dcd-b060-d3bc9d8d1118@s6g2000vbp.googlegroups.com>
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X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3079

JIMMIE wrote:

> On Sep 16, 8:46 pm, brian whatcott <betw...@sbcglobal.net> wrote:
>> Andy GD1MIP wrote:
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>>
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>>
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>>
>> Brian W
>> KA5WOG
>
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> knock out the magnetic shunt with a hammer and punch, but on the newer
> ovens the shunt is a weld. Will these still work?
>
> Jimmie

I left the magnetic bypass leg in the core on the one I used for a spot
weld source. Its a security blanket against core saturation due to the
magnetron,I reckon.

Brian W

From 3844938434242119611
X-Google-Thread: 241b302a50,ccd073b0af7f3448
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X-Google-NewGroupId: yes
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nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 17 Sep 2009 17:13:08 -0500
From: Andy GD1MIP <Andy.GD1MIP.4f869e5@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply transformer advice
Date: Thu, 17 Sep 2009 23:08:23 +0100
Message-ID: <Andy.GD1MIP.4f869e5@radiobanter.com>
Organization: RadioBanter.com
References: <Andy.GD1MIP.4f57286@radiobanter.com>

Lines: 24
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X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
X-Original-Lines: 6
Xref: g2news2.google.com rec.radio.amateur.homebrew:3080

thanks for all the comments folks. I considered all and decided to take
the learning curve. I was lucky the transformer was only held togethert
by a non sticky clear plastic wrap.
Having unwrapped the windings I took the 55v secondary off completely.
Re the 20v secs, I worked out the value in volts of each turn, then
removed 8 turns from each of the 4 secs. I now have 16.48 volt (near
enough to 16.5 volt for me) I had to re-space the secondary windings
(i did it to look neat - there may be a sound physics reason too).
Lets hope it works. Before the 'surgery' the 20 volt secondaries were
good for 18amp in parallel (according to manufacturer). Tim stated that
lowering the volts to 16 will give 25% more current. so I should be good
for at least 20 amps. I only wanted 15 so the margin is ok.

thanks again folks Andy

+---+
+---+

--
Andy GD1MIP

From -9155421917367262981
X-Google-Thread: 241b302a50,ccd073b0af7f3448
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!o21g2000vbl.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply transformer advice
Date: Fri, 18 Sep 2009 07:37:18 -0700 (PDT)
Organization: http://groups.google.com

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Lines: 37
Message-ID: <415d5eb0-8c0a-4202-b09c-27a88cc2da1e@o21g2000vbl.googlegroups.com>
References: <Andy.GD1MIP.4f57286@radiobanter.com>
<Andy.GD1MIP.4f869e5@radiobanter.com>
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Content-Type: text/plain; charset=ISO-8859-1
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 18 Sep 2009 14:37:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3081
```

On Sep 17, 6:08=A0pm, Andy GD1MIP <Andy.GD1MIP.4f86...@radiobanter.com>
wrote:

```
> thanks for all the comments folks. =A0I considered all and decided to tak=
e
> the learning curve. =A0I was lucky the transformer was only held together=
t
> by a non sticky clear plastic wrap.
> Having unwrapped the windings I took the 55v secondary off completely.
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> lowering the volts to 16 will give 25% more current. so I should be good
> for at least 20 amps. I only wanted 15 so the margin is ok.
>
> thanks again folks =A0Andy
>
> +----------------------------------------------------------------+
> +----------------------------------------------------------------+
>
> --
> Andy GD1MIP
```

Hey OM:

Hope those transistors you are going to use have low SAT otherwise you are not going to get 13.8 volts.

And I know for a fact the the regulator will have a hard time regulating that close to the rail. Been there done that. You are going to need another winding in there to supply the regulator with around 29VDC.

73 OM
de n8zu

From 7196055297381081480
X-Google-Thread: 241b302a50,ccd073b0af7f3448
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 18 Sep 2009 10:05:31 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Power supply transformer advice
Newsgroups: rec.radio.amateur.homebrew
References: <Andy.GD1MIP.4f57286@radiobanter.com>
     <EK-dnVIdrMYCGizXnZ2dnUVZ_oSdnZ2d@giganews.com>
     <08f741b1-a4c8-4dcd-b060-d3bc9d8d1118@s6g2000vbp.googlegroups.com>
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3082

On Thu, 17 Sep 2009 11:55:59 -0500, brian whatcott wrote:

> JIMMIE wrote:
>> On Sep 16, 8:46 pm, brian whatcott <betw...@sbcglobal.net> wrote:
>>> Andy GD1MIP wrote:
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>>> KA5WOG
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>> ovens the shunt is a weld. Will these still work?
>>
>> Jimmie
>
> I left the magnetic bypass leg in the core on the one I used for a spot
> weld source. Its a security blanket against core saturation due to the
> magnetron,I reckon.
>
> Brian W

I _think_ that shunt serves to limit the secondary current and therefore
protect the magnetron.

I should go through the math on that...

--
www.wescottdesign.com

```
From 6628511080013330757
X-Google-Thread: 241b302a50,ccd073b0af7f3448
X-Google-Attributes: gid241b302a50,public,usenet
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Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 18 Sep 2009 10:12:42 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Power supply transformer advice
Newsgroups: rec.radio.amateur.homebrew
References: <Andy.GD1MIP.4f57286@radiobanter.com>
     <Andy.GD1MIP.4f869e5@radiobanter.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <E8-dnQr55fz3Pi7XnZ2dnUVZ_o1i4p2d@web-ster.com>
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pSH9Gk5kMNUk3Fg=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3083

On Thu, 17 Sep 2009 23:08:23 +0100, Andy GD1MIP wrote:

> thanks for all the comments folks. I considered all and decided to take
> the learning curve. I was lucky the transformer was only held togethert
> by a non sticky clear plastic wrap.
> Having unwrapped the windings I took the 55v secondary off completely.
> Re the 20v secs, I worked out the value in volts of each turn, then
> removed 8 turns from each of the 4 secs. I now have 16.48 volt (near
> enough to 16.5 volt for me) I had to re-space the secondary windings (i
> did it to look neat - there may be a sound physics reason too). Lets
> hope it works. Before the 'surgery' the 20 volt secondaries were good
> for 18amp in parallel (according to manufacturer). Tim stated that
> lowering the volts to 16 will give 25% more current. so I should be good
> for at least 20 amps. I only wanted 15 so the margin is ok.

No no. Tim stated that _after_ you _completely_ rewind the secondaries
with wire that's got 25% more cross-sectional area you can run 25% more
current. if you increased the secondary current to 20A the per-inch
dissipation in the secondary would go up by about 56%; you can probably
run more than 16A in the secondaries now because they're more spread out
and because the primary will be cooler, but I very much doubt that you
can go as high as 20A and maintain the same temperature.

--
www.wescottdesign.com

From 7847409702704589221
X-Google-Thread: 241b302a50,ccd073b0af7f3448
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 18 Sep 2009 11:53:46 -0500
Date: Fri, 18 Sep 2009 11:50:53 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Power supply transformer advice
References: <Andy.GD1MIP.4f57286@radiobanter.com>
<Andy.GD1MIP.4f869e5@radiobanter.com> <415d5eb0-8c0a-4202-b09c-27a88cc2da1e@o21g2000vbl.googlegroups.com>
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Message-ID: <6MmdncFDybyHJi7XnZ2dnUVZ_oednZ2d@giganews.com>
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X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3084

raypsi wrote:
> On Sep 17, 6:08 pm, Andy GD1MIP <Andy.GD1MIP.4f86...@radiobanter.com>
> wrote:
>> thanks for all the comments folks. I considered all and decided to take
>> the learning curve. I was lucky the transformer was only held togethert
>> by a non sticky clear plastic wrap.
>> Having unwrapped the windings I took the 55v secondary off completely.
>> Re the 20v secs, I worked out the value in volts of each turn, then
>> removed 8 turns from each of the 4 secs. I now have 16.48 volt (near
>> enough to 16.5 volt for me) I had to re-space the secondary windings
>> (i did it to look neat - there may be a sound physics reason too).
>> Lets hope it works. Before the 'surgery' the 20 volt secondaries were
>> good for 18amp in parallel (according to manufacturer). Tim stated that
>> lowering the volts to 16 will give 25% more current. so I should be good
>> for at least 20 amps. I only wanted 15 so the margin is ok.
>>
>> thanks again folks Andy
>>
>> +---+
>> +---+
>>
>> --
>> Andy GD1MIP
>
> Hey OM:
>
> Hope those transistors you are going to use have low SAT otherwise you
> are not going to get 13.8 volts.
>
> And I know for a fact the the regulator will have a hard time
> regulating that close to the rail. Been there done that. You are going
> to need another winding in there to supply the regulator with around

> 29VDC.
>
> 73 OM
> de n8zu

It's certainly possible you know better than the original designer - and
that the power transistors he specified need more than 16.5VAC X 1.414
(to peak DC) less 13.8VDC output - that's a max headroom of 9.5 volts
DC.   But perhaps you were taking the input AC value for the input DC .
It's all I can think of....

Brian W

From 3643353336908873743
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
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news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 18 Sep 2009 11:56:00 -0500
Date: Fri, 18 Sep 2009 11:53:07 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply transformer advice
References: <Andy.GD1MIP.4f57286@radiobanter.com> <EK-
dnVIdrMYCGizXnZ2dnUVZ_oSdnZ2d@giganews.com>   <08f741b1-a4c8-4dcd-b060-
d3bc9d8d1118@s6g2000vbp.googlegroups.com>
<jIudnW2Noq9l9y_XnZ2dnUVZ_i1i4p2d@giganews.com> <E8-
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X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3085

Tim Wescott wrote:
>>>> .... 1100 watt defunct microwaves can be had for the asking.
>>>>   They have a particular transformer core design that makes it easy
>>>>   to saw off the 1 KV secondary, and with the

```
 >>>>  generous core window, you
>>>> could wind 18 to 20 turns of wire good for 10 amps. The turns per volt
>>>> is not much over 1 tpv....   And you have a decent rectifier diode for
>>>> the spares box too....
>>>>
>>>> Admitted - a bandsaw in the workshop makes a 15 minute job out of this
>>>> transformer hack.(if you don't nick the primary)
>>>>
>>>> Brian W
>>>> KA5WOG

>>> Brian, I have done this with  old uwave transformers, the ones I could
>>> knock out the magnetic shunt with a hammer and punch, but on the newer
>>> ovens the shunt is a weld. Will these still work?
>>>
>>> Jimmie
>> I left the magnetic bypass leg in the core on the one I used for a spot
>> weld source.  Its a security blanket against core saturation due to the
>> magnetron,I reckon.
>>
>> Brian W
>
> I _think_ that shunt serves to limit the secondary current and therefore
> protect the magnetron.

I agree....

Brian W


From 6692094376259729072
X-Google-Thread: 241b302a50,bcd236c1b235ca80
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!
188.40.43.213.MISMATCH!feeder.eternal-september.org!eternal-september.org!not-for-
mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna advice?
Date: Sat, 19 Sep 2009 16:39:53 -0400
Organization: A noiseless patient Spider
Lines: 34
Message-ID: <h93fe3$n7n$1@news.eternal-september.org>
References: <l9kqm.107$tG1.88@newsfe22.iad>
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september.org> <_o9rm.2109$Jd7.1178@nwrddc02.gnilink.net>
<h8jgdt$cuf$1@news.eternal-september.org>
<gbcrm.2324$tl3.1745@nwrddc01.gnilink.net>
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X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Sat, 19 Sep 2009 20:37:24 +0000 (UTC)
In-Reply-To: <gbcrm.2324$tl3.1745@nwrddc01.gnilink.net>
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Cancel-Lock: sha1:V1fQvsKyLU4cqsxTR36Bf4GNjXg=
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3086

JB wrote:
> "Kenneth Scharf" <wa2mze@bellsouth.net> wrote in message
> news:h8jgdt$cuf$1@news.eternal-september.org...
>> JB wrote:
>>> A 4btv trap vertical or the like would be a different matter, requiring
> some
>>> fiddling. A Yagi and (or) G5RV would require a minimum of fiddling. A
>>> ladder line fed homemade G5RV in inverted vee would be the least
> expensive I
>>> could think of. A used 3 element Yagis can be cleaned up and re-used
>>> later..
>>>
>>> The trap vertical that was mentioned would probably be a real hassle to
>>> tune-up on the tower.
>>>
>> The GAP Titan can be dumped out of the box, assembled (use a tape
>> measure to get everything as per the manual) and put up without ANY
>> fooling around. You *MIGHT* have to make a minor adjustment to get the
>> 80 and 40 meter bands right with the lowest SWR centered in the middle
>> of the band segment that you operate most, but mine came out perfect
>> using the factory directions.
>
> You are telling me that the measurements are the same for tower mounting?
>
I'd have to dig up the instruction manual to see what they have to say
on that. However I do remember assembling it according to the
measurements given in the manual and the antenna worked fine mounted
with the bottom at eye level with me standing on roof. The antenna was
mounted on a mast strapped to the side of the house. I now have the
antenna mounted at the same height, but using the GAP tiltover mount
hardware attached to a short length of Rohn #25 tower against the side
of the house.   I don't think the GAP Titan is very sensitive to height
above ground, at least as far as tuning is concerned. Angle of
radiation is probably another story....

From 2877328299025771610
X-Google-Thread: 241b302a50,ccd073b0af7f3448
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit

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From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply transformer advice
Date: Sat, 19 Sep 2009 17:43:28 -0400
Organization: A noiseless patient Spider
Lines: 41
Message-ID: <h93j59$hdc$1@news.eternal-september.org>
References: <Andy.GD1MIP.4f57286@radiobanter.com>
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: news.eternal-september.org U2FsdGVkX1/CYFIZZ7kfgKy+YiD2DeUJM8IwI3cn/7Qtcs7I3A2kkpKcSAEDK+I1XJvdB6ju4nM2VRCsBxpOHpZJ8AaeoFAG5jM8JGeW7WiTUv15wyX2WqcbSUAJCATmuj67Dbk9OQM=
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NNTP-Posting-Date: Sat, 19 Sep 2009 21:40:57 +0000 (UTC)
In-Reply-To: <Andy.GD1MIP.4f57286@radiobanter.com>
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Cancel-Lock: sha1:X0cpq61hi7pRgVAGGbr0+h5IXtw=
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3087

Andy GD1MIP wrote:
> Hi I am building a (240volt in) 13.8 volt (out) PSU along the lines of
> this plan..
> http://www.warc.org.uk/proj_psu.php it is very similar to the old
> Marchwood practical wireless unit from the early 1980's using 2n3055
> transistors.
>
> My question. The spec says the transformer must have a secondary of
> 16.5 volt. Now when I last built a PSU using a similar plan the
> transformer output could be much higher, in the region of 15 to 20
> volts.
>
> I have a Talema branded toroid I want to use, its spec is as follows
> (from maker)
> +++++
> Toroidal transformer type 5028-P3S03:
> Prim: 0-110V-230V-240V orange-yellow-violet-blue
> Sec1: 20V/6A green-red
> Sec2: 20V/6A black-white
> Sec3: 55V/2,5A braun-braun
> If you use only the 2x20V you can get out 9A of each winding (no load
> on the 55V)
> +++++
>
>
> as you can see the secondary output is 20 volt, now folks do you think
> this transformer will suffice at 20 volts, or should I removed a little

```
> winding to bring it down?
>
> 73 Andy
>
> PS the variac is just there for scale.
>
>
>
>
Is this transformer potted in the middle?
If it isn't you could add some turns and connect them in series with the
primary to reduce the secondary voltages.  This would be a lot easier
than removing turns from the secondaries, especially if the secondaries
are NOT wound on top!


From 423728785491843809
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m3g2000pri.googlegroups.com!not-for-
mail
From: Andrew VK3BFA <VK3BFA@wia.org.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply transformer advice
Date: Sun, 20 Sep 2009 00:56:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 47
Message-ID: <9f72c62c-a09d-408d-a7c1-a863a89adaed@m3g2000pri.googlegroups.com>
References: <Andy.GD1MIP.4f57286@radiobanter.com> <h93j59$hdc$1@news.eternal-
september.org>
NNTP-Posting-Host: 218.215.160.193
Mime-Version: 1.0
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X-Trace: posting.google.com 1253433415 19600 127.0.0.1 (20 Sep 2009 07:56:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 20 Sep 2009 07:56:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m3g2000pri.googlegroups.com; posting-host=218.215.160.193;
     posting-account=Cc0OKgoAAAByqbOIrSIn11gD8DGRk_7t
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X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.20)
     Gecko/20081217 Firefox/2.0.0.20,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3088

On Sep 20, 7:43 am, Kenneth Scharf <wa2...@bellsouth.net> wrote:
> Andy GD1MIP wrote:
> > Hi  I am building a (240volt in) 13.8 volt (out) PSU  along the lines of
> > this plan..
>
OK, we are all being technical here - can I ask if the crowbar IC is
still available? Is the specified relay still available?

At an overvoltage condition,there will be over 200 watts being
dissipated in the 2r2 resistor in series with the SCR - hopefully it
```

wont instantaneously go open circuit....if the overvoltage protection works, wont the thing go into cyclic oscillation as it attempts to restart?....(not sure here, perhaps the gate never goes low enough for this)
LM723 regulators tend to be a bit unstable - VHF ground plane type construction is recommended.
The transformer ratings - the manufacturer rates them at a specified current for a reason. For low duty cycle use, eg SSB, you can get away with pulling more current. But a solid state Class C FM amplifier? - also, as mentioned, there is very little headroom at 16v - 18v would be better.....and thats assuming the mains input voltage is reference quality - here in OZ, its a design variable, up to 20% fluctuations are not uncommon, especially at the end of a long run.
Motorola 2N3055 transistors are fine - BUT- when the original Motorola patents expired, and Motorola stopped making them, a lot of substandard crappy ones (typically Eastern European) came onto the market. Be warned, they can be unpredictable. TO3 is a pretty well obsolete case style anyway. Good luck. And the Motorola symbol was widely forged as well.

The above, of course, are my Neanderthal rantings on a newsgroup and will no doubt start an impassioned debate on points of theory , or maths, or how it was done in 1935. Remember, free advice is worth what you pay for it.

But I would advise putting a 5w 15V zener across the output terminals, and before that put a 30amp fuse. Minimal cost for added insurance.

Go for it - build it, experiment. Blowing something up is always a fantastic spur to learn the correct theory for the application..if it works first up, then its just a mechanical exercise.

Andrew VK3BFA.

From 4277156914217338347
X-Google-Thread: 241b302a50,4f01c2670381ebf,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
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From: electricksparks <comtrol.kaska1@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: spurious radiadtion
Date: Sun, 20 Sep 2009 06:54:48 -0700 (PDT)
Organization: http://groups.google.com
Lines: 11
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NNTP-Posting-Date: Sun, 20 Sep 2009 13:54:50 +0000 (UTC)
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     Trident/4.0; GTB6; OfficeLiveConnector.1.3; OfficeLivePatch.0.0; .NET CLR
     1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
     3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3089
```

I drive a 1988 dodge dakota which has an electronic control module to
control timing and fuel delivery.I've installed a 10/12m ranger 2970
radio in it.I've also modified the radio somewhat by installing a
modulation/speech processor/compressor.My modulation is presently at
95%.When I key the mic. the ECM becomes flooded with RF and disturbs
the control to the fuel delivery and timing to the point of stalling
the the truck.I've tried to RF harden the ECM by wrapping it in tin
foil.I'e also added a DC ground that runs from the radio to ground and
to the antenna then back to the truck ground.Still the problem
exists.Any suggestions short of removing the speech/mod compressor
will be greatly appreciated.   73s...K2NBO....

```
From 4478589930590007407
X-Google-Thread: 241b302a50,4f01c2670381ebf
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
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news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 20 Sep 2009 12:22:29 -0500
Date: Sun, 20 Sep 2009 12:18:29 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: spurious radiation
References: <f197aae3-7ea8-42d4-8aa0-760d32d834f7@f10g2000vbf.googlegroups.com>
In-Reply-To: <f197aae3-7ea8-42d4-8aa0-760d32d834f7@f10g2000vbf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <-JydnWmP_LBE-SvXnZ2dnUVZ_qKdnZ2d@giganews.com>
Lines: 18
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-MfAmRFPHdy+vAt+xLPRZ6Qsaqo9BhI8GM9YpddhJ0IG5RUTOetwBV/
```

```
Ih4eLacPSg3G344R6k+jP0ug6!
r9KD1qh0gq0kC+f3g2w4kKoqtuC2RIbb03dBqgBqKsbVlpow2qVkPoeBjfgcXR6SNFcYLcUf4Lg=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3090
```

electricksparks wrote:

> I drive a 1988 dodge dakota which has an electronic control module to
> control timing and fuel delivery.I've installed a 10/12m ranger 2970
> radio in it.I've also modified the radio somewhat by installing a
> modulation/speech processor/compressor.My modulation is presently at
> 95%.When I key the mic. the ECM becomes flooded with RF and disturbs
> the control to the fuel delivery and timing to the point of stalling
> the the truck.I've tried to RF harden the ECM by wrapping it in tin
> foil.I'e also added a DC ground that runs from the radio to ground and
> to the antenna then back to the truck ground.Still the problem
> exists.Any suggestions short of removing the speech/mod compressor
> will be greatly appreciated.   73s...K2NBO....

Off the top. If the trouble started after the compressor was added, it might just be that current spikes from the radio are getting to the ECM.
A choke and bypass right at the radio power input lead might fix it...

Brian W

```
From -5643822559677192712
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news1
From: Bill M <radioexray@geeeeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: spurious radiadtion
Date: Sun, 20 Sep 2009 13:40:59 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 7
Message-ID: <h95pfe02fos@news1.newsguy.com>
References: <f197aae3-7ea8-42d4-8aa0-760d32d834f7@f10g2000vbf.googlegroups.com>
NNTP-Posting-Host: p3c4090321b4d5961c5d5dd0ccf4d4f4784c72da507c440bb.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <f197aae3-7ea8-42d4-8aa0-760d32d834f7@f10g2000vbf.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3091
```

electricksparks wrote:

> I've installed a 10/12m ranger 2970

> radio in it.I've also modified the radio somewhat by installing a
> modulation/speech processor/compressor.My modulation is presently at
> 95%. 73s...K2NBO....

K2NBO seems to be a fake callsign?

```
From -414615988620626131
X-Google-Thread: 241b302a50,4f01c2670381ebf
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!8c40745b!not-for-
mail
Reply-To: "Dale Parfitt" <parinc1@verizon.net>
From: "Dale Parfitt" <parinc1@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <f197aae3-7ea8-42d4-8aa0-760d32d834f7@f10g2000vbf.googlegroups.com>
<h95pfe02fos@news1.newsguy.com>
Subject: Re: spurious radiadtion
Lines: 14
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <pWttm.3068$tl3.1180@nwrddc01.gnilink.net>
Date: Sun, 20 Sep 2009 17:49:09 GMT
NNTP-Posting-Host: 72.71.96.236
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1253468949 72.71.96.236 (Sun, 20 Sep 2009 13:49:09
EDT)
NNTP-Posting-Date: Sun, 20 Sep 2009 13:49:09 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3092
X-Original-Bytes: 1453
```

"Bill M" <radioexray@geeeeeemail.com> wrote in message
news:h95pfe02fos@news1.newsguy.com...

> electricksparks wrote:
>> I've installed a 10/12m ranger 2970
>> radio in it.I've also modified the radio somewhat by installing a
>> modulation/speech processor/compressor.My modulation is presently at
>> 95%. 73s...K2NBO....
>
> K2NBO seems to be a fake callsign?

I think the give away was the speech compressor and 95% modulation.

```
From -6371734302015070100
X-Google-Thread: 9e586c3d78,6b033cf51a265047,start
X-Google-Attributes: gid9e586c3d78,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
From: "kb9rqz" <kb9rqz@puncegotcha.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave
Subject: new gruop four U
Date: Sun, 20 Sep 2009 14:35:09 -0400
Lines: 15
Organization: one punce over teh line
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
NNTP-Posting-Host: $$-dwiml-olnws7.newsfeed.x-privat.org
Message-ID: <4ab675ef@x-privat.org>
X-Authenticated-User: $$q3_o_tx91q7xfh$rfsj2gd6
X-Complaints-To: abuse@x-privat.org
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.karotte.org!
news2.arglkargh.de!newsfeed.straub-nv.de!x-privat.org!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.policy:26800
rec.radio.amateur.homebrew:3093 rec.radio.shortwave:49298

I has indeed craeted a miror policy gruop where the non-ameateur related
post will indeed be deleted.
For tohse who may has an interest indeed Feel free to visit/subcribe/use
teh site.

http://groups.google.com/group/rec-radio-amateur-radio?hl=en

I punce a moronatated blog from teh ham radio that happenens to indeed be Bi
sexaul kinky
http://kb9rqz.blogspot.com/


show-na-two-va (pohnetically speeled)





From -8832564537319478204
X-Google-Thread: 9e586c3d78,6b033cf51a265047
X-Google-Attributes: gid9e586c3d78,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g6g2000vbr.googlegroups.com!not-for-
mail
From: kb9rqz <mark@kb9rqz.com>
```

```
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave
Subject: shonatovah
Date: Sun, 20 Sep 2009 16:00:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 3
Message-ID: <c8db1f89-2af7-48af-bb6f-384ec26e9c23@g6g2000vbr.googlegroups.com>
References: <4ab675ef@x-privat.org>
NNTP-Posting-Host: 66.82.9.99
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1253487621 12826 127.0.0.1 (20 Sep 2009 23:00:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 20 Sep 2009 23:00:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g6g2000vbr.googlegroups.com; posting-host=66.82.9.99;
     posting-account=3ePh8QoAAABpiNDYEy2_bPCVy_4Crs1n
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.policy:26808
rec.radio.amateur.homebrew:3094 rec.radio.shortwave:49310

On Sep 20, 2:35=A0pm, "kb9rqz" <kb9...@puncegotcha.com> wrote:
> I
fake



From -6062814472953094665
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <f197aae3-7ea8-42d4-8aa0-760d32d834f7@f10g2000vbf.googlegroups.com>
<h95pfe02fos@news1.newsguy.com> <pWttm.3068$tl3.1180@nwrddc01.gnilink.net>
Subject: Re: spurious radiadtion
Lines: 21
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <7xNtm.3131$tl3.2111@nwrddc01.gnilink.net>
Date: Mon, 21 Sep 2009 16:07:31 GMT
NNTP-Posting-Host: 173.55.67.116
```

X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1253549251 173.55.67.116 (Mon, 21 Sep 2009 12:07:31 EDT)
NNTP-Posting-Date: Mon, 21 Sep 2009 12:07:31 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3095

"Dale Parfitt" <parinc1@verizon.net> wrote in message
news:pWttm.3068$tl3.1180@nwrddc01.gnilink.net...
>
> "Bill M" <radioexray@geeeeeemail.com> wrote in message
> news:h95pfe02fos@news1.newsguy.com...
> > electricksparks wrote:
> >> I've installed a 10/12m ranger 2970
> >> radio in it.I've also modified the radio somewhat by installing a
> >> modulation/speech processor/compressor.My modulation is presently at
> >> 95%. 73s...K2NBO....
> >
> > K2NBO seems to be a fake callsign?
>
> I think the give away was the speech compressor and 95% modulation.
>

Modulation and power mods by universally shady mod techs usually buys you a steaming pile of crap, broken warranty, and only serves to call every one on the band to your channel. Eleven meters is heavily populated by suckers whose main goal in life is to try to get something for nothing.

From 7731269861127445684
X-Google-Thread: 241b302a50,5372d94024c7f883,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!usenet-fr.net!ircam.fr!freenix!news.wanadoo.fr!news.wanadoo.fr!not-for-mail
From: "Tomylavitesse" <pas@free.fr>
Newsgroups: rec.radio.amateur.homebrew
Subject: coils : turns shorted = quality ?
Date: Thu, 24 Sep 2009 09:15:59 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Lines: 12
Message-ID: <4abb1caf$0$17779$ba4acef3@news.orange.fr>
Organization: les newsgroups par Orange
NNTP-Posting-Date: 24 Sep 2009 09:15:59 CEST
NNTP-Posting-Host: 83.205.188.67
X-Trace: 1253776559 news.orange.fr 17779 83.205.188.67:7142
X-Complaints-To: abuse@orange.fr
Xref: g2news2.google.com rec.radio.amateur.homebrew:3096

HI,

Often I can see coils where some turns are shorted in order to modify there value.
I wonder whether these shorted turns would not be seen as a short cicuit and could decrease the quality of that coil.
How can I have an idea of the lost of quality without complex equipment ?
I plan to build this kind of coil for a shortened antenna...

regards

```
From 6212528784476335593
X-Google-Thread: 241b302a50,5372d94024c7f883
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 25 Sep 2009 00:33:53 -0500
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4abb1caf$0$17779$ba4acef3@news.orange.fr>
In-Reply-To: <4abb1caf$0$17779$ba4acef3@news.orange.fr>
Subject: Re: coils : turns shorted = quality ?
Date: Thu, 24 Sep 2009 22:33:45 -0700
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18005
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18005
Message-ID: <8bCdnRMVcd3cyyHXnZ2dnUVZ_qidnZ2d@giganews.com>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
X-Trace: 
sv3-3WPGSwDlzLMe6U5b3YV4cfHTkHwdd5iL1SQxPmwyGmrpzJghUHV0tBxYdkMZHL0FUu0DACK9huUtdn
4!EIpduHgWHS8kngOOg2zUCG2k2mmfu9uvttcGimYe9Xl8r4cD8vdO5x7lHm+5xK+5RhsR3oraVA==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint 
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3097
```

"Tomylavitesse" <pas@free.fr> wrote in message
news:4abb1caf$0$17779$ba4acef3@news.orange.fr...
> HI,
>
> Often I can see coils where some turns are shorted in order to modify
> there value.
> I wonder whether these shorted turns would not be seen as a short cicuit
> and could decrease the quality of that coil.
> How can I have an idea of the lost of quality without complex equipment ?
> I plan to build this kind of coil for a shortened antenna...
>
> regards
>
Good question! I've always wondered about that too. In a former life as a
marine electronics technician, the old marine "AM" transmitter antenna
tuners uses shorted turns a lot. It always sort of went against the grain, I
thought, but in practice, it seemed to work ok. What was I missing here?
Old Chief Lynn, W7LTQ and some commercials with endorsements

From -5605176590792783397
X-Google-Thread: 241b302a50,5372d94024c7f883
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 25 Sep 2009 01:28:39 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: coils : turns shorted = quality ?
References: <4abb1caf$0$17779$ba4acef3@news.orange.fr>
<8bCdnRMVcd3cyyHXnZ2dnUVZ_qidnZ2d@giganews.com>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Thu, 24 Sep 2009 23:28:21 -0700
Message-ID: <5h4uo6-q9o.ln1@radagast.org>
Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.159.209.148
X-Trace: sv3-3fA5SsJ1R8RtYI8bcz79hb8u25Qw1ZT1SS2k+R/
dMNmP8xnSdpqXxa5QHFMC45p1+uihh9etvRY4I0E!9At9/
AqcsgPzy5LudMslW6hORJWeGZUiJgBjX9kqub1vQdRJ4uGisZVC0pIOmQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40

Xref: g2news2.google.com rec.radio.amateur.homebrew:3098

In article <8bCdnRMVcd3cyyHXnZ2dnUVZ_qidnZ2d@giganews.com>,
coffelt2 <coffelt2@comcast.net> wrote:

>Good question! I've always wondered about that too. In a former life as a
>marine electronics technician, the old marine "AM" transmitter antenna
>tuners uses shorted turns a lot. It always sort of went against the grain, I
>thought, but in practice, it seemed to work ok. What was I missing here?
>Old Chief Lynn, W7LTQ and some commercials with endorsements

My understanding is that the presence of the shorted turns in the coil does lower the Q of the coil somewhat. If the loaded Q of the system/application is already low enough, the reduction in coil Q doesn't result in an unacceptable increase in losses.

The alternative, in some cases, is to leave the unused turns open at one end. This isn't always possible, and when it is possible it can have an unfortunate side effect. Autotransformer action can cause the open end of the turns to develop a high voltage relative to the rest of the system, and there can be arcing to nearby points of lower potential. Could make a mess of the inside of your transmatch :-(

--
Dave Platt <dplatt@radagast.org>   AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From -3324196232736168990
X-Google-Thread: 241b302a50,5372d94024c7f883
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 25 Sep 2009 10:44:24 -0500
From: "Dave M" <masondg4499@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4abb1caf$0$17779$ba4acef3@news.orange.fr>
<8bCdnRMVcd3cyyHXnZ2dnUVZ_qidnZ2d@giganews.com>
Subject: Re: coils : turns shorted = quality ?
Date: Fri, 25 Sep 2009 11:44:24 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <atOdnWozsdbFeCHXnZ2dnUVZ_gSdnZ2d@giganews.com>
Lines: 32
X-Usenet-Provider: http://www.giganews.com

```
X-Trace: sv3-itc/
nadMqgXB5ZX+KWK+a86uRAYc4syHCgQ48CPL+iRV8yqDoFpT3uEcj1Po9zJX5zzw9rJKQffPOLo!
9uTzbqhHuXsKqlnTJp9WKaF1nKeGyKruPgGlpIDB6zAmXe+wVPhQNq7p4JMZsk39RT7JLYRz/n8z
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3099
```

coffelt2 wrote:
> "Tomylavitesse" <pas@free.fr> wrote in message
> news:4abb1caf$0$17779$ba4acef3@news.orange.fr...
>> HI,
>>
>> Often I can see coils where some turns are shorted in order to modify
>> there value.
>> I wonder whether these shorted turns would not be seen as a short
>> cicuit and could decrease the quality of that coil.
>> How can I have an idea of the lost of quality without complex
>> equipment ? I plan to build this kind of coil for a shortened
>> antenna... regards
>>
> Good question! I've always wondered about that too. In a former life
> as a marine electronics technician, the old marine "AM" transmitter
> antenna tuners uses shorted turns a lot. It always sort of went
> against the grain, I thought, but in practice, it seemed to work ok.
> What was I missing here? Old Chief Lynn, W7LTQ and some commercials
> with endorsements

In many military antenna tuners, the variable inductor inside the tuner was open on one end. The coil was rotated such that the length of the coil winding was changed, or the position of the tap was changed to effect the tuning. There were also some tuners that spooled one end of the coil onto a grounded metal drum. The mechanism changed the effective length of the coil, but did not introduce any shorted turns.

--
David
masondg44 at comcast dot net

```
From -391203440955559316
X-Google-Thread: 241b302a50,5372d94024c7f883
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
feeder.eternal-september.org!eternal-september.org!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
```

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: coils : turns shorted = quality ?
Date: Fri, 25 Sep 2009 19:26:40 -0400
Organization: A noiseless patient Spider
Lines: 18
Message-ID: <h9jjea$ors$1@news.eternal-september.org>
References: <4abb1caf$0$17779$ba4acef3@news.orange.fr>
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: news.eternal-september.org
U2FsdGVkX1+kpg23SGiEDagH5Fvis53fimX4eRBkUSZ783FXqKciSdzkzTCzOROfFEvdHdLsKTgnnJ+ev4
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X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Fri, 25 Sep 2009 23:23:54 +0000 (UTC)
In-Reply-To: <4abb1caf$0$17779$ba4acef3@news.orange.fr>
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User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3100

Tomylavitesse wrote:
> HI,
>
> Often I can see coils where some turns are shorted in order to modify there
> value.
> I wonder whether these shorted turns would not be seen as a short cicuit and
> could decrease the quality of that coil.
> How can I have an idea of the lost of quality without complex equipment ?
> I plan to build this kind of coil for a shortened antenna...
>
> regards
>
>

If the shorted turns are connected to one end of the coil then the total shorted turns would appear as the final turn of the coil. In amateur transmitters the band switch often shorts turns from the cold end of the tank coil as one switches to higher frequency bands. The shorted turns simply are not in the circuit I guess.

From -3688798971239663781
X-Google-Thread: 241b302a50,5372d94024c7f883
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
news.mixmin.net!aioe.org!_news
From: rtfm <rtfm@invalid.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: coils : turns shorted = quality ?
Date: Sat, 26 Sep 2009 09:17:51 +0200
Organization: Aioe.org NNTP Server

Lines: 26
Message-ID: <vpr0p6-e68.ln1@nntp.rtfm.ad>
References: <4abb1caf$0$17779$ba4acef3@news.orange.fr>
NNTP-Posting-Host: 35XTZbAOCUEsrncUADTKXQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-Notice: Filtered by postfilter v. 0.8.0
Cancel-Lock: sha1:Ss5aXSVO43Am3rVbrLRMr5unrA4=
User-Agent: slrn/0.9.9 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3101

On 2009-09-24, Tomylavitesse <pas@free.fr> wrote:
> HI,
>
> Often I can see coils where some turns are shorted in order to modify there
> value.
> I wonder whether these shorted turns would not be seen as a short cicuit and
> could decrease the quality of that coil.
> How can I have an idea of the lost of quality without complex equipment ?
> I plan to build this kind of coil for a shortened antenna...

The circuit to shorten turns in such environments has to be very low
loss. Otherwise you will have lots of power lost in this short
circiuted parts of the coil. And in PA / antenna environments you
always have power. This is why switches are always "heavy duty" in PA
and antenna switching units.

If you do so, the current in this shortened turns is a complex
current. And as you know, complex currents do not consume power. Only
the real parts of current do.

This is totally different from the situation e.g. in a power
transformator. If you would shorten turns there, you would have power
loss, because the resistant of the turns in power transformators has a
much higher real part compared with rf coils in PA / antenna units.

OK?

From 817672039605529093
X-Google-Thread: 241b302a50,5372d94024c7f883
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 26 Sep 2009 22:26:31 -0500
Date: Sat, 26 Sep 2009 22:25:30 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: coils : turns shorted = quality ?
References: <4abb1caf$0$17779$ba4acef3@news.orange.fr> <vpr0p6-e68.ln1@nntp.rtfm.ad>
In-Reply-To: <vpr0p6-e68.ln1@nntp.rtfm.ad>
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Content-Transfer-Encoding: 7bit
Message-ID: <HZ6dnfAJGKv6RiPXnZ2dnUVZ_rOdnZ2d@giganews.com>
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X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3102

rtfm wrote:
> On 2009-09-24, Tomylavitesse <pas@free.fr> wrote:
>> HI,
>>
>> Often I can see coils where some turns are shorted in order to modify there
>> value.
>> I wonder whether these shorted turns would not be seen as a short cicuit and
>> could decrease the quality of that coil.
>> How can I have an idea of the lost of quality without complex equipment ?
>> I plan to build this kind of coil for a shortened antenna...
>
> The circuit to shorten turns in such environments has to be very low
> loss. Otherwise you will have lots of power lost in this short
> circiuted parts of the coil. And in PA / antenna environments you
> always have power. This is why switches are always "heavy duty" in PA
> and antenna switching units.
>
> If you do so, the current in this shortened turns is a complex
> current. And as you know, complex currents do not consume power. Only
> the real parts of current do.
>
> This is totally different from the situation e.g. in a power
> transformator. If you would shorten turns there, you would have power
> loss, because the resistant of the turns in power transformators has a
> much higher real part compared with rf coils in PA / antenna units.
>
> OK?

This seemed like an insightful response - but not one with universal appeal.

Let me try embroidering on this theme a little more....

The leakage path for current in an insulated wire is strikingly

different from the leakage path in a magnetic conductor - usually called
a core or stamping.
The leakage resistance can easily be 1000 megohms compared to the
conductor's resistance of (say) 1 ohm. A ratio of a billion to one.
The leakage path for cores and stampings is lucky to be a thousand times
more "resistive" than the path through the core - if it's an iron
stamping, an iron dust core, or a ferrite core. A ratio of a thousand to
one.
For air cored coils, the leakage path is lower still, so that the
magnetic path does not couple all turns together at the best of times.

If an end turn or two is shorted, the reactive current in the shorted
turn pinches off most of the magnetic coupling from the remaining coil
altogether, so the effect is not as dramatic as we might expect.
Waddaya think of that?

Brian W

```
From -2517569894786721628
X-Google-Thread: 241b302a50,5372d94024c7f883
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
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news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 26 Sep 2009 22:32:54 -0500
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4abb1caf$0$17779$ba4acef3@news.orange.fr> <vpr0p6-
e68.ln1@nntp.rtfm.ad> <HZ6dnfAJGKv6RiPXnZ2dnUVZ_rOdnZ2d@giganews.com>
In-Reply-To: <HZ6dnfAJGKv6RiPXnZ2dnUVZ_rOdnZ2d@giganews.com>
Subject: Re: coils : turns shorted = quality ?
Date: Sat, 26 Sep 2009 20:32:50 -0700
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X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18005
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X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
```

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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3103


"brian whatcott" <betwys1@sbcglobal.net> wrote in message
news:HZ6dnfAJGKv6RiPXnZ2dnUVZ_rOdnZ2d@giganews.com...
> rtfm wrote:
>> On 2009-09-24, Tomylavitesse <pas@free.fr> wrote:
>>> HI,
>>>
>>> Often I can see coils where some turns are shorted in order to modify
>>> there value.
>>> I wonder whether these shorted turns would not be seen as a short cicuit
>>> and could decrease the quality of that coil.
>>> How can I have an idea of the lost of quality without complex equipment
>>> ?
>>> I plan to build this kind of coil for a shortened antenna...
>>
>> The circuit to shorten turns in such environments has to be very low
>> loss. Otherwise you will have lots of power lost in this short
>> circiuted parts of the coil. And in PA / antenna environments you
>> always have power. This is why switches are always "heavy duty" in PA
>> and antenna switching units.
>>
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>>
>> This is totally different from the situation e.g. in a power
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>> much higher real part compared with rf coils in PA / antenna units.
>>
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>
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>
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>
> The leakage path for current in an insulated wire is strikingly different
> from the leakage path in a magnetic conductor - usually called a core or
> stamping.
> The leakage resistance can easily be 1000 megohms compared to the
> conductor's resistance of (say) 1 ohm. A ratio of a billion to one.
> The leakage path for cores and stampings is lucky to be a thousand times
> more "resistive" than the path through the core - if it's an iron
> stamping, an iron dust core, or a ferrite core. A ratio of a thousand to
> one.
> For air cored coils, the leakage path is lower still, so that the magnetic
```

> path does not couple all turns together at the best of times.
>
> If an end turn or two is shorted, the reactive current in the shorted turn
> pinches off most of the magnetic coupling from the remaining coil
> altogether, so the effect is not as dramatic as we might expect.
> Waddaya think of that?
>
> Brian W

Wooo hoooooo, now we're cookin'

Old Chief Lynn

From 298643884540484354
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!goblin2!goblin.stu.neva.ru!aioe.org!_news
From: rtfm <rtfm@invalid.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: coils : turns shorted = quality ?
Date: Sun, 27 Sep 2009 10:37:03 +0200
Organization: Aioe.org NNTP Server
Lines: 23
Message-ID: <fqk3p6-8b.ln1@nntp.rtfm.ad>
References: <4abb1caf$0$17779$ba4acef3@news.orange.fr> <vpr0p6-e68.ln1@nntp.rtfm.ad> <HZ6dnfAJGKv6RiPXnZ2dnUVZ_rOdnZ2d@giganews.com>
NNTP-Posting-Host: ffcXIfgnMaLtwxUS5KR1Lw.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-Notice: Filtered by postfilter v. 0.8.0
Cancel-Lock: sha1:iKJ6vgo9QuIkQCMJPvm/Im9Q/Yk=
User-Agent: slrn/0.9.9 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3104

On 2009-09-27, brian whatcott <betwys1@sbcglobal.net> wrote:
> ...
> The leakage path for current in an insulated wire is strikingly
> different from the leakage path in a magnetic conductor - usually called
> a core or stamping.
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> conductor's resistance of (say) 1 ohm. A ratio of a billion to one.
> The leakage path for cores and stampings is lucky to be a thousand times
> more "resistive" than the path through the core - if it's an iron
> stamping, an iron dust core, or a ferrite core. A ratio of a thousand to
> one.
> For air cored coils, the leakage path is lower still, so that the
> magnetic path does not couple all turns together at the best of times.
>
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> altogether, so the effect is not as dramatic as we might expect.
> Waddaya think of that?

Thanks for this posting. You are totally right. I tried to explain
thinks a little more easier. And if you try to reduce complexity in an
explanation, you have to simplyfy. Looks like I simplyfied too much.
My fault.

From -8821543420007517815
X-Google-Thread: 241b302a50,5372d94024c7f883
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
newsfeed.straub-nv.de!proxad.net!feeder1-2.proxad.net!193.252.117.184.MISMATCH!
news.wanadoo.fr!news.wanadoo.fr!not-for-mail
From: "Tomylavitesse" <pas@free.fr>
Newsgroups: rec.radio.amateur.homebrew
References: <4abb1caf$0$17779$ba4acef3@news.orange.fr>
Subject: Re: coils : turns shorted = quality ?
Date: Sun, 27 Sep 2009 11:17:16 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5843
X-RFC2646: Format=Flowed; Response
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Lines: 9
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NNTP-Posting-Date: 27 Sep 2009 11:17:16 CEST
NNTP-Posting-Host: 83.205.188.67
X-Trace: 1254043036 news.orange.fr 12623 83.205.188.67:4283
X-Complaints-To: abuse@orange.fr
Xref: g2news2.google.com rec.radio.amateur.homebrew:3105

Hi,
Thanks everybody.
I just found your answers, so I will work with them.
I've also found some other info on my old handbook ARRL.
Thanks again

Raph

From -1088018534287143077
X-Google-Thread: 241b302a50,5372d94024c7f883
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
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news.giganews.com.POSTED!not-for-mail

NNTP-Posting-Date: Sun, 27 Sep 2009 14:17:24 -0500
From: "coffelt2" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4abb1caf$0$17779$ba4acef3@news.orange.fr> <vpr0p6-e68.ln1@nntp.rtfm.ad> <HZ6dnfAJGKv6RiPXnZ2dnUVZ_rOdnZ2d@giganews.com> <fqk3p6-8b.ln1@nntp.rtfm.ad>
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Date: Sun, 27 Sep 2009 12:17:22 -0700
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Content-Type: text/plain;
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X-Priority: 3
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Message-ID: <PqOdnV387ZfYJyLXnZ2dnUVZ_judnZ2d@giganews.com>
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X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3106

"rtfm" <rtfm@invalid.invalid> wrote in message news:fqk3p6-8b.ln1@nntp.rtfm.ad...
> On 2009-09-27, brian whatcott <betwys1@sbcglobal.net> wrote:
>> ...
>> The leakage path for current in an insulated wire is strikingly
>> different from the leakage path in a magnetic conductor - usually called
>> a core or stamping.
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>>
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>> altogether, so the effect is not as dramatic as we might expect.

>> Waddaya think of that?
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> Thanks for this posting. You are totally right. I tried to explain
> thinks a little more easier. And if you try to reduce complexity in an
> explanation, you have to simplyfy. Looks like I simplyfied too much.
> My fault.

No, no, no..... your explanation was right on the mark! Many of us
thoroughly enjoyed your reduction of
imaginary numbers and such into a down-to-earth, homebrew response. Well
done!

Old Chief Lynn

From -2938813858910740946
X-Google-Thread: 241b302a50,5372d94024c7f883
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
news.mixmin.net!aioe.org!_news
From: rtfm <rtfm@invalid.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: coils : turns shorted = quality ?
Date: Sun, 27 Sep 2009 13:19:51 +0200
Organization: Aioe.org NNTP Server
Lines: 7
Message-ID: <nbu3p6-f94.ln1@nntp.rtfm.ad>
References: <4abb1caf$0$17779$ba4acef3@news.orange.fr>
<4abf2d9c$0$12623$ba4acef3@news.orange.fr>
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X-Complaints-To: abuse@aioe.org
X-Notice: Filtered by postfilter v. 0.8.0
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User-Agent: slrn/0.9.9 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3107

On 2009-09-27, Tomylavitesse <pas@free.fr> wrote:
> Hi,
> Thanks everybody.
> I just found your answers, so I will work with them.
> I've also found some other info on my old handbook ARRL.

Worlds best HAM tech source!

From -8074127460445712144
X-Google-Thread: 241b302a50,5372d94024c7f883
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII

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Path: g2news2.google.com!postnews.google.com!k13g2000prh.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: coils : turns shorted = quality ?
Date: Sun, 27 Sep 2009 22:28:33 -0700 (PDT)
Organization: http://groups.google.com
Lines: 77
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     <HZ6dnfAJGKv6RiPXnZ2dnUVZ_rOdnZ2d@giganews.com>
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1254115714 5806 127.0.0.1 (28 Sep 2009 05:28:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 28 Sep 2009 05:28:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k13g2000prh.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.14)
     Gecko/2009082707 Firefox/3.0.14 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3108

On Sep 26, 8:25=A0pm, brian whatcott <betw...@sbcglobal.net> wrote:
> rtfm wrote:
> > On 2009-09-24, Tomylavitesse <p...@free.fr> wrote:
> >> HI,
>
> >> Often I can see coils where some turns are shorted in order to modify =
there
> >> value.
> >> I wonder whether these shorted turns would not be seen as a short cicu=
it and
> >> could decrease the quality of that coil.
> >> How can I have an idea of the lost of quality without complex equipmen=
t ?
> >> I plan to build this kind of coil for a shortened antenna...
>
> > The circuit to shorten turns in such environments has to be very low
> > loss. Otherwise you will have lots of power lost in this short
> > circiuted parts of the coil. And in PA / antenna environments you
> > always have power. This is why switches are always "heavy duty" in PA
> > and antenna switching units.
>
> > If you do so, the current in this shortened turns is a complex
> > current. And as you know, complex currents do not consume power. Only
> > the real parts of current do.
>
> > This is totally different from the situation e.g. in a power
```

> > transformator. If you would shorten turns there, you would have power
> > loss, because the resistant of the turns in power transformators has a
> > much higher real part compared with rf coils in PA / antenna units.
>
> > OK?
>
> This seemed like an insightful response - but not one with universal appe=
al.
>
> Let me try embroidering on this theme a little more....
>
> The leakage path for current in an insulated wire is strikingly
> different from the leakage path in a magnetic conductor - usually called
> a core or stamping.
> The leakage resistance can easily be 1000 megohms compared to the
> conductor's resistance of (say) 1 ohm. A ratio of a billion to one.
> The leakage path for cores and stampings is lucky to be a thousand times
> more "resistive" than the path through the core - if it's an iron
> stamping, an iron dust core, or a ferrite core. A ratio of a thousand to
> one.
> For air cored coils, the leakage path is lower still, so that the
> magnetic path does not couple all turns together at the best of times.
>
> If an end turn or two is shorted, the reactive current in the shorted
> turn pinches off most of the magnetic coupling from the remaining coil
> altogether, so the effect is not as dramatic as we might expect.
> Waddaya think of that?
>
> Brian W

It's actually not too difficult to come up with a reasonably accurate
model that you can then analyze...for example, you can put it into
Spice and look at the losses, the lowering of Q, etc.

What I've done to build the model is to consider that the shorted
turns are one coil and the remainder of the turns are another. Before
those turns are shorted, each of those two coils (that happen to form
one coil) has a self-inductance, and when they are put end-to-end to
form the one coil, they then also have mutual inductance. You can use
your favorite coil inductance calculator to find the inductance of
each of the two individual coils, and the net single coil composed of
those two. Those three inductances let you calculate the mutual
inductance (or the coupling coefficient), and that's the core of the
model. You can add in the RF resistance of each coil: there are
various ways to get a good estimate of the Qu, and from that you can
get the RF resistance at the operating frequency.

If this is too muddy, I could offer a specific example...

Cheers,
Tom

From -8860756561778000640
X-Google-Thread: 241b302a50,14041b35cbf40a5,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2.glorb.com!newsfeed-3001.bay.webtv.net!newssorter-3001.bay.webtv.net!not-for-mail
From: dialcover@webtv.net (Bill Turner)
Newsgroups: rec.radio.amateur.homebrew
Subject: LOTS OF ANTIQUE RADIO THINGS. dialcover.com
Date: Mon, 28 Sep 2009 09:36:02 -0500
Organization: WebTV Subscriber
Lines: 6
Message-ID: <23275-4AC0C9D2-4242@storefull-3172.bay.webtv.net>
NNTP-Posting-Host: localhost.webtv.net
Mime-Version: 1.0 (WebTV)
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
X-WebTV-Signature: 1
     ETAtAhUAlKnbrhEx4BMAzH5shTGBraStPVwCFFAfmLw2Prf46pWfFyTVE6Mu0XdB
Content-Disposition: Inline
Xref: g2news2.google.com rec.radio.amateur.homebrew:3109

WA0ABI

CHECK MY WEBSITE: www.dialcover.com
Bill Turner, excuse caps, short answers, stroke.

From 283953250615472744
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-05.dc1.easynews.com.POSTED!not-for-mail
From: Peter Dettmann <peter@aardvark.net.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: coils : turns shorted = quality ?
Message-ID: <8jg2c5pvagfacdg8ds8t8b61t2qk4ntenb@4ax.com>
References: <4abb1caf$0$17779$ba4acef3@news.orange.fr> <vpr0p6-e68.ln1@nntp.rtfm.ad> <HZ6dnfAJGKv6RiPXnZ2dnUVZ_rOdnZ2d@giganews.com> <2ccc29ad-433d-4567-b25d-f734d127c5d4@k13g2000prh.googlegroups.com>
X-Newsreader: Forte Agent 5.00/32.1170
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 19
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Tue, 29 Sep 2009 09:15:22 +1000

Xref: g2news2.google.com rec.radio.amateur.homebrew:3110

On Sun, 27 Sep 2009 22:28:33 -0700 (PDT), K7ITM <k7itm@msn.com> wrote:

>On Sep 26, 8:25�pm, brian whatcott <betw...@sbcglobal.net> wrote:
>> rtfm wrote:
>> > On 2009-09-24, Tomylavitesse <p...@free.fr> wrote:
>> >> HI,
>> > OK?

<snip>

As well, it would be interesting to see the effect of stray
capacitance, as the reason for shorting unused turns is to reduce the
problem of stray capacitance and the inductance having unwanted
parasitic resonances in the system,   That is why shorting unused
sections is normally advocated.

Peter Dettmann

From -6192846581582717233
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
gnilink.net!spln!extra.newsguy.com!newsp.newsguy.com!news2
From: Bill M <radioexray@geeeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: coils : turns shorted = quality ?
Date: Mon, 28 Sep 2009 19:33:12 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 26
Message-ID: <h9rh3n0gma@news2.newsguy.com>
References: <4abb1caf$0$17779$ba4acef3@news.orange.fr> <vpr0p6-
e68.ln1@nntp.rtfm.ad> <HZ6dnfAJGKv6RiPXnZ2dnUVZ_rOdnZ2d@giganews.com>
<2ccc29ad-433d-4567-b25d-f734d127c5d4@k13g2000prh.googlegroups.com>
<8jg2c5pvagfacdg8ds8t8b61t2qk4ntenb@4ax.com>
NNTP-Posting-Host: pf93397f36c4a51c92d568fc063313e074a15540c74f27a41.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
In-Reply-To: <8jg2c5pvagfacdg8ds8t8b61t2qk4ntenb@4ax.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3111

Peter Dettmann wrote:
> On Sun, 27 Sep 2009 22:28:33 -0700 (PDT), K7ITM <k7itm@msn.com> wrote:
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> problem of stray capacitance and the inductance having unwanted
> parasitic resonances in the system,    That is why shorting unused
> sections is normally advocated.
>
> Peter Dettmann
>
>
Well, its the better of the options but the Q of the 'desired' coil
still takes a hit because of that nearby lump of copper.

It works out ok in practice, though.

-Bill



From 7953156652498927530
X-Google-Thread: 241b302a50,5372d94024c7f883
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!j4g2000yqa.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: coils : turns shorted = quality ?
Date: Tue, 29 Sep 2009 15:03:40 -0700 (PDT)
Organization: http://groups.google.com
Lines: 139
Message-ID: <2eebd517-8fca-461d-a979-91674bbdaa76@j4g2000yqa.googlegroups.com>
References: <4abb1caf$0$17779$ba4acef3@news.orange.fr> <vpr0p6-
e68.ln1@nntp.rtfm.ad>
     <HZ6dnfAJGKv6RiPXnZ2dnUVZ_rOdnZ2d@giganews.com> <2ccc29ad-433d-4567-b25d-
f734d127c5d4@k13g2000prh.googlegroups.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1254261820 11391 127.0.0.1 (29 Sep 2009 22:03:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 29 Sep 2009 22:03:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j4g2000yqa.googlegroups.com; posting-host=192.25.240.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.3)
     Gecko/20090824 Firefox/3.5.3,gzip(gfe),gzip(gfe)
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Xref: g2news2.google.com rec.radio.amateur.homebrew:3112

On Sep 27, 10:28=A0pm, K7ITM <k7...@msn.com> wrote:
> On Sep 26, 8:25=A0pm, brian whatcott <betw...@sbcglobal.net> wrote:
>
>
>
> > rtfm wrote:
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> turns are one coil and the remainder of the turns are another. =A0Before
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> one coil) has a self-inductance, and when they are put end-to-end to
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> your favorite coil inductance calculator to find the inductance of
> each of the two individual coils, and the net single coil composed of
> those two. =A0Those three inductances let you calculate the mutual
> inductance (or the coupling coefficient), and that's the core of the
> model. =A0You can add in the RF resistance of each coil: =A0there are
> various ways to get a good estimate of the Qu, and from that you can
> get the RF resistance at the operating frequency.
>
> If this is too muddy, I could offer a specific example...
>
> Cheers,
> Tom

So, just for fun I ran an analysis this way...
I asked the Hamwaves on-line inductance calculator about three coils,
all 2.5mm wire, 5mm pitch, 75mm mean coil diameter, default copper
wire. You can put effective shunt capacitances into the model too,
but I didn't in this case. The test frequency is 10.0MHz. These are
the "lumped equivalent" values.

L1: 13 turns 65mm long --> 9.272uH, 0.491 ohms, Qu=3D1187
L2: 17 turns 85mm long --> 13.191uH, 0.646 ohms, Qu=3D1283
L3 (L1 and L2 end to end): 30t, 150mm --> 26.600uH, 0.880 ohms,
Qu=3D1899
(My impression is that the RF resistance and Qu calculation yields Qu
that's a bit too high, but that's what the calculator says...)

From these, I calculate the mutual inductance. L1+L2+2*M =3D L3, so
M=3D2.0685uH. Coupling coefficient equals M/sqrt(L1*L2), or 0.187.

I put L1 and L2 and their respective RF resistances in series in

Spice, with a resistance representing a shorting switch across L2. Note that this model, with the switch open, will give an RF resistance simply equal to the sum of the RF resistances of the two coils, which isn't the same as the Hamwaves calculator gives for L3.

The results are kind of interesting. It doesn't take much shunt resistance in the switch to lower the Q (increase the net RF resistance). You want to be sure your switch is really OPEN when the coil isn't shorted. You can actually stand quite a bit of resistance (a good fraction of an ohm) when it's shorted without really bad effects. Here are the results I got, again at 10.0MHz:

R(switch) ohms	L(net) uH	Effective net series resistance ohms	Qu
1e9	26.598	1.138	1469
1e8	26.598	1.146	1458
1e7	26.598	1.229	1360
1e6	26.598	2.056	813
1e5	26.597	10.32	162
1e4	26.476	92.4	18.0
1e3	19.405	545	2.24
1e2	9.201	132.4	4.37
10	8.950	13.886	40.5
1.0	8.947	1.845	305
0.5	8.948	1.175	478
0.2	8.947	0.774	726
0.1	8.947	0.640	878
0.05	8.947	0.573	981
0.02	8.947	0.533	1054
0.01	8.947	0.520	1081

Cheers,
Tom

From 3284229367962236759
X-Google-Thread: 241b302a50,5372d94024c7f883
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 29 Sep 2009 20:30:22 -0500
Date: Tue, 29 Sep 2009 20:29:47 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: coils : turns shorted = quality ?

References: <4abb1caf$0$17779$ba4acef3@news.orange.fr> <vpr0p6-e68.ln1@nntp.rtfm.ad> <HZ6dnfAJGKv6RiPXnZ2dnUVZ_rOdnZ2d@giganews.com>
<2ccc29ad-433d-4567-b25d-f734d127c5d4@k13g2000prh.googlegroups.com>
<2eebd517-8fca-461d-a979-91674bbdaa76@j4g2000yqa.googlegroups.com>
In-Reply-To: <2eebd517-8fca-461d-a979-91674bbdaa76@j4g2000yqa.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <ldidnQt8fvUzKV_XnZ2dnUVZ_gRi4p2d@giganews.com>
Lines: 60
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-PwaUT7j5lx23zO/
6i2lAvTRiWGh9qDMhRKzKi77zjzdNnBuADAaIuTnbRRKwYDDxDaV5ixSaDeR+jjA!
NJvvTGOGpyHkD6p0scDIkemdOK8y1/gtcwWFLftroWIKl67yuxqg73eF1h3+LNdOQak7T79Fcqo=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3113

K7ITM wrote:

> So, just for fun I ran an analysis this way...
> I asked the Hamwaves on-line inductance calculator about three coils,
> all 2.5mm wire, 5mm pitch, 75mm mean coil diameter, default copper
> wire. You can put effective shunt capacitances into the model too,
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> Qu=1899
> (My impression is that the RF resistance and Qu calculation yields Qu
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> effects. Here are the results I got, again at 10.0MHz:
>

```
>                           Effective net
> R(switch)    L(net)      series resistance
> ohms         uH          ohms          Qu
> --------     --------    --------      --------
> 1e9          26.598      1.138         1469
> 1e8          26.598      1.146         1458
> 1e7          26.598      1.229         1360
> 1e6          26.598      2.056         813
> 1e5          26.597      10.32         162
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> 10           8.950       13.886        40.5
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> 0.5          8.948       1.175         478
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> Cheers,
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```

Good post!

Brian W

From -4088838495188131778
X-Google-Thread: 241b302a50,5372d94024c7f883
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-06.dc1.easynews.com.POSTED!not-for-mail
From: Peter Dettmann <peter@aardvark.net.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: coils : turns shorted = quality ?
Message-ID: <8rr5c5llkfn7hr26kktlj8i2q27nla6s74@4ax.com>
References: <4abb1caf$0$17779$ba4acef3@news.orange.fr> <vpr0p6-e68.ln1@nntp.rtfm.ad> <HZ6dnfAJGKv6RiPXnZ2dnUVZ_rOdnZ2d@giganews.com> <2ccc29ad-433d-4567-b25d-f734d127c5d4@k13g2000prh.googlegroups.com> <8jg2c5pvagfacdg8ds8t8b61t2qk4ntenb@4ax.com> <h9rh3n0gma@news2.newsguy.com>
X-Newsreader: Forte Agent 5.00/32.1170
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 39
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/

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X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Wed, 30 Sep 2009 15:46:12 +1000
Xref: g2news2.google.com rec.radio.amateur.homebrew:3114

On Mon, 28 Sep 2009 19:33:12 -0400, Bill M <radioexray@geeeemail.com>
wrote:

>Peter Dettmann wrote:
>> On Sun, 27 Sep 2009 22:28:33 -0700 (PDT), K7ITM <k7itm@msn.com> wrote:
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>>>>> OK?
>>
>> <snip>
>>
>> As well, it would be interesting to see the effect of stray
>> capacitance, as the reason for shorting unused turns is to reduce the
>> problem of stray capacitance and the inductance having unwanted
>> parasitic resonances in the system,    That is why shorting unused
>> sections is normally advocated.
>>
>> Peter Dettmann
>>
>>
>Well, its the better of the options but the Q of the 'desired' coil
>still takes a hit because of that nearby lump of copper.
>
>It works out ok in practice, though.
>
>-Bill

Exactly Bill, and the whole thing really is a matter of just what is
the needed, or acceptable Q.   If the Q is satisfactory with the
shorted turns, then that is the way to make your design (keeping in
mind the disadvantages of open circuit unused turns).

However should you need the highest obtainable Q, then a single
isolated coil is called for which has the needed turns.

Peter



From -5222268409984451594
X-Google-Thread: 241b302a50,c3e2a323e83a24c9,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
```

nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 30 Sep 2009 06:52:11 -0500
Date: Wed, 30 Sep 2009 11:52:10 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Solid State 222 Amp plans?
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <waydnfMYvvv2217XnZ2dnUVZ_tSdnZ2d@bright.net>
Lines: 7
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-yxQ2EhCg2SqBfMLf58FqM3Is7Z5Kc3szDqdS3kfKm5QDIooMxqiQG/
NUd4KNNjFq1GEzVfsPmoNQKP8!
e0G5C1lerX2zLErIqKL4Pu1OHhTVuNzYiJAaWUsHkD+rfnVmieARAdg3+b/QOBIQnM9r0xMSOSWO!
17HXwnFllw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3115

Anybody have a source of plans for a solid state 222 amplifier project?
  Looking to use discrete transistors (versus a 222 brick module) for a
little more power out. Looking for something that will take something
like 5W in and give 75-100W out. Design should use 13V power supply.

Scott
N0EDV

From -2152651531112128907
X-Google-Thread: a4a23d5f63,85b3406ceb388edf,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!goblin3!goblin1!goblin.stu.neva.ru!
news.mixmin.net!newspeer.monmouth.com!newsswitch.lcs.mit.edu!bloom-beacon.mit.edu!
panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1251784801@panix.com>
Followup-To: poster
Date: 1 Oct 2009 02:00:02 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: rec-radio-info@panix.com

Distribution: world
Expires: 03 Nov 2009 01:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1254376801@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com (rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1254376803 21192 166.84.1.2 (1 Oct 2009 06:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 1 Oct 2009 06:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
Xref: g2news2.google.com rec.radio.amateur.antenna:14860 rec.radio.amateur.dx:506 rec.radio.amateur.equipment:1817 rec.radio.amateur.homebrew:3116 rec.radio.amateur.misc:4563 rec.radio.amateur.policy:26864 rec.radio.amateur.space:290 rec.radio.info:1006

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

From -3723413509244271078
X-Google-Thread: 241b302a50,865f26fc3ccd9090,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!novatech
From: novatech@eskimo.com (Steven Swift)
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Panoramic Radio Products Spectrum Analyzer Manual and Cable
Date: 5 Oct 2009 23:39:27 GMT
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 18
Distribution: NA
Message-ID: <hae03f02q9m@enews1.newsguy.com>
NNTP-Posting-Host:
pc7e1683b48441d30597e546f0ec3207645319318fc37e52d80393bb345246992.newsdawg.com
Keywords: SPA-3
X-Newsreader: NN version 6.5.5 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3117
rec.radio.amateur.boatanchors:3445

I have a clean photo copy (from Trucker) of the Panoramic Radio Products, Inc. manual for their Models SPA-3 and SPA-3/25 along with a big cable labeled "Singer Metrics 556161-096" which I think is the interface cable between sections. The manual has schematics, parts list, operating instructions and calibration sections. The schematics have 1958 dates on them.

I have no use for these. They weigh about 4 lbs.

Email me if you can use these.

Steven Swift (alternate: gswifty@gmail.com)
--
Steven D. Swift, novatech@eskimo.com, http://www.novatech-instr.com
NOVATECH INSTRUMENTS, INC.   P.O. Box 55997

206.301.8986, fax 206.363.4367 Seattle, Washington 98155 USA

```
From -2106218424615694815
X-Google-Thread: 241b302a50,75fe8a91dc8eb299,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a39g2000pre.googlegroups.com!not-for-
mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Information on ceramic filter
Date: Tue, 6 Oct 2009 10:43:41 -0700 (PDT)
Organization: http://groups.google.com
Lines: 20
Message-ID: <7e1c1f8b-d3ad-446c-9af3-1e5503bbead1@a39g2000pre.googlegroups.com>
NNTP-Posting-Host: 207.200.116.136
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1254851021 2691 127.0.0.1 (6 Oct 2009 17:43:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 6 Oct 2009 17:43:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a39g2000pre.googlegroups.com; posting-host=207.200.116.136;
     posting-account=0Q4qJQoAAAB4vjIbnPnpY8JqAcYZv7Os
User-Agent: G2/1.0
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-ntc-ta10.proxy.aol.com[CFC8700A] (Prism/1.2.1), HTTP/1.1
     cache-ntc-ac07.proxy.aol.com[CFC87488] (Traffic-Server/6.1.5 [uScM])
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
     Trident/4.0; SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
     3.5.30729; .NET CLR 3.0.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3118
```

In a box of traded parts I found a cylindrical object labeled "Clevite Ceramic Filter TL10D16A" that may be some sort of IF filter according to very dusty old memory files. I would appreciate it if anyone knows of this brand and can give me an approximate center frequency and, perhaps, impedance loading of terminations.

Hermetically sealed about 1 1/2" long by 1/4" diameter, leads coming out ends of metal case. Unused by appearance of end wires. Perhaps 30 to 40 years old? Trader had no idea where he got it (probably in a trade of his).

Clevite is an old company and was purchased by Gould Electronics some time in the late 1960s. Can't find anything on this part in web search now.

My thanks for reading. If anyone has any info, feel free to post it privately or publicly.

73, Len AF6AY

```
From -7905816978899251009
X-Google-Thread: 241b302a50,75fe8a91dc8eb299
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!ecngs!feeder2.ecngs.de!zen.net.uk!hamilton.zen.co.uk!
shaftesbury.zen.co.uk.POSTED!not-for-mail
Date: Tue, 06 Oct 2009 20:21:11 +0100
From: Gaius <bin@127.0.0.1>
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Information on ceramic filter
References: <7e1c1f8b-d3ad-446c-9af3-1e5503bbead1@a39g2000pre.googlegroups.com>
In-Reply-To: <7e1c1f8b-d3ad-446c-9af3-1e5503bbead1@a39g2000pre.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 36
Message-ID: <4acb98a7$0$2530$da0feed9@news.zen.co.uk>
Organization: Zen Internet
NNTP-Posting-Host: bce150e7.news.zen.co.uk
X-Trace: DXC=SCII3>I4hjcSdkL6?
j\13anok4Z\<mH4ihDU:2=XKPkhA\ND1:KmYZe9lB1JFUM7DeIgBI3maK=^i
X-Complaints-To: abuse@zen.co.uk
Xref: g2news2.google.com rec.radio.amateur.homebrew:3119
```

AF6AY wrote:

> In a box of traded parts I found a cylindrical object labeled
> "Clevite Ceramic Filter TL10D16A" that may be some sort
> of IF filter according to very dusty old memory files. I would
> appreciate it if anyone knows of this brand and can give me
> an approximate center frequency and, perhaps, impedance
> loading of terminations.
>
> Hermetically sealed about 1 1/2" long by 1/4" diameter, leads
> coming out ends of metal case. Unused by appearance of
> end wires. Perhaps 30 to 40 years old? Trader had no idea
> where he got it (probably in a trade of his).
>
> Clevite is an old company and was purchased by Gould
> Electronics some time in the late 1960s. Can't find anything
> on this part in web search now.
>
> My thanks for reading. If anyone has any info, feel free to
> post it privately or publicly.
>
> 73, Len AF6AY

I've got one which looks identical, but with a different part number (TL6D11:A). Mine is a 455KHz centre frequency, 6KHz filter which was used as the AM filter in the UK/PRC-316 radio. From the circuit, I'd say it should terminate in 1K ohms.

Clevite was a UK company, based in Southampton, and part of the Brush Electrical group. They specialised in ceramic filters - and seem to have been one of the first commercial suppliers of these. I've got other equipment which uses Clevite filters, and I can assure you these are not cheap alternatives to crystal filters - they are high grade components in their own right.

I'll bet your item is on one of the standard IF frequencies - try 100KHz, 455KHz, 1.4MHz, 5MHz etc.

```
From 7621641382796166675
X-Google-Thread: a4a23d5f63,18e39b1d7401c2de,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
newshosting.com!novia!news-out.readnews.com!news-xxxfer.readnews.com!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1252303500@panix.com>
Followup-To: poster
Date: 7 Oct 2009 02:05:00 -0400
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: RRI Admin <rec-radio-info-request@panix.com>
Distribution: world
Expires: 09 Nov 2009 01:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1254895500@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1254895501 28509 166.84.1.2 (7 Oct 2009 06:05:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 7 Oct 2009 06:05:01 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news2.google.com rec.radio.amateur.antenna:14990 rec.radio.amateur.dx:512
rec.radio.amateur.equipment:1822 rec.radio.amateur.homebrew:3120
rec.radio.amateur.misc:4574 rec.radio.amateur.policy:26900 rec.radio.info:1024

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
```

Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

From -2358656823496405667
X-Google-Thread: 241b302a50,5372d94024c7f883
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!m11g2000vbl.googlegroups.com!not-for-mail
From: stan <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: coils : turns shorted = quality ?
Date: Thu, 8 Oct 2009 08:17:31 -0700 (PDT)
Organization: http://groups.google.com
Lines: 68
Message-ID: <69dc4b6a-d62e-4921-baa1-82d7c1868a76@m11g2000vbl.googlegroups.com>

```
References: <4abb1caf$0$17779$ba4acef3@news.orange.fr> <vpr0p6-
e68.ln1@nntp.rtfm.ad>
     <HZ6dnfAJGKv6RiPXnZ2dnUVZ_rOdnZ2d@giganews.com> <2ccc29ad-433d-4567-b25d-
f734d127c5d4@k13g2000prh.googlegroups.com>
     <8jg2c5pvagfacdg8ds8t8b61t2qk4ntenb@4ax.com> <h9rh3n0gma@news2.newsguy.com>
     <8rr5c5llkfn7hr26kktlj8i2q27nla6s74@4ax.com>
NNTP-Posting-Host: 142.162.128.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1255015052 28774 127.0.0.1 (8 Oct 2009 15:17:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Oct 2009 15:17:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m11g2000vbl.googlegroups.com; posting-host=142.162.128.246;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3121

On Sep 30, 3:46=A0am, Peter Dettmann <pe...@aardvark.net.au> wrote:
> On Mon, 28 Sep 2009 19:33:12 -0400, Bill M <radioex...@geeeemail.com>
> wrote:
>
>
>
>
>
> >Peter Dettmann wrote:
> >> On Sun, 27 Sep 2009 22:28:33 -0700 (PDT), K7ITM <k7...@msn.com> wrote:
>
> >>> On Sep 26, 8:25 pm, brian whatcott <betw...@sbcglobal.net> wrote:
> >>>> rtfm wrote:
> >>>>> On 2009-09-24, Tomylavitesse <p...@free.fr> wrote:
> >>>>>> HI,
> >>>>> OK?
>
> >> <snip>
>
> >> As well, it would be interesting to see the effect of stray
> >> capacitance, as the reason for shorting unused turns is to reduce the
> >> problem of stray capacitance and the inductance having unwanted
> >> parasitic resonances in the system, =A0 =A0That is why shorting unused
> >> sections is normally advocated.
>
> >> Peter Dettmann
>
> >Well, its the better of the options but the Q of the 'desired' coil
> >still takes a hit because of that nearby lump of copper.
>
> >It works out ok in practice, though.
>
```

> >-Bill
>
> Exactly Bill, and the whole thing really is a matter of just what is
> the needed, or acceptable Q. =A0 If the Q is satisfactory with the
> shorted turns, then that is the way to make your design (keeping in
> mind the disadvantages of open circuit unused turns).
>
> However should you need the highest obtainable Q, then a single
> isolated coil is called for which has the needed turns.
>
> Peter- Hide quoted text -
>
> - Show quoted text -

All this very interesting; because many, many, (like 50+) years ago I built a signal generator, that didn't work! Nice job in an ex-Admiralty copper lined wooden box!

Came across a complete set of coils with a multi position switch which covered a wide range of frequencies. Tested it out breadboard fashion and it worked fine. Then built it into a double layer chassis constructed from two thick and therefore potentially rigid and frequency stable pieces of Aluminum!

But what I had done was dismount a set of coils from a plastic frame and mounted them in holes drilled into the two opposite panels of aluminum. Nice job mechanically but what must have hap pend is the Al. panels provided shorted turns in the same plane as the winding of the coils and reduced their Q to where the (tube, inductive feedback) circuit wouldn't work.

Never got time to work on it because I then emigrated to North America and the unfinished item is long gone. Had a nice Muirhead slow motion drive on it too!

Live and learn!

```
From 2318036789657530199
X-Google-Thread: 241b302a50,5372d94024c7f883
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!x6g2000prc.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: coils : turns shorted = quality ?
Date: Thu, 8 Oct 2009 11:20:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 90
Message-ID: <a0d81a6d-b530-419e-a249-dd1e39d458dc@x6g2000prc.googlegroups.com>
References: <4abb1caf$0$17779$ba4acef3@news.orange.fr> <vpr0p6-
```

```
e68.ln1@nntp.rtfm.ad>
     <HZ6dnfAJGKv6RiPXnZ2dnUVZ_rOdnZ2d@giganews.com> <2ccc29ad-433d-4567-b25d-
f734d127c5d4@k13g2000prh.googlegroups.com>
     <8jg2c5pvagfacdg8ds8t8b61t2qk4ntenb@4ax.com> <h9rh3n0gma@news2.newsguy.com>
     <8rr5c5llkfn7hr26kktlj8i2q27nla6s74@4ax.com> <69dc4b6a-d62e-4921-
baa1-82d7c1868a76@m11g2000vbl.googlegroups.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1255026020 3626 127.0.0.1 (8 Oct 2009 18:20:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Oct 2009 18:20:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x6g2000prc.googlegroups.com; posting-host=192.25.240.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.3)
     Gecko/20090824 Firefox/3.5.3,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3122

On Oct 8, 8:17=A0am, stan <tsanf...@nf.sympatico.ca> wrote:
> On Sep 30, 3:46=A0am, Peter Dettmann <pe...@aardvark.net.au> wrote:
>
>
>
> > On Mon, 28 Sep 2009 19:33:12 -0400, Bill M <radioex...@geeeemail.com>
> > wrote:
>
> > >Peter Dettmann wrote:
> > >> On Sun, 27 Sep 2009 22:28:33 -0700 (PDT), K7ITM <k7...@msn.com> wrot=
e:
>
> > >>> On Sep 26, 8:25 pm, brian whatcott <betw...@sbcglobal.net> wrote:
> > >>>> rtfm wrote:
> > >>>>> On 2009-09-24, Tomylavitesse <p...@free.fr> wrote:
> > >>>>>> HI,
> > >>>>> OK?
>
> > >> <snip>
>
> > >> As well, it would be interesting to see the effect of stray
> > >> capacitance, as the reason for shorting unused turns is to reduce th=
e
> > >> problem of stray capacitance and the inductance having unwanted
> > >> parasitic resonances in the system, =A0 =A0That is why shorting unus=
ed
> > >> sections is normally advocated.
>
> > >> Peter Dettmann
>
> > >Well, its the better of the options but the Q of the 'desired' coil
> > >still takes a hit because of that nearby lump of copper.
```

>
> > >It works out ok in practice, though.
>
> > >-Bill
>
> > Exactly Bill, and the whole thing really is a matter of just what is
> > the needed, or acceptable Q. =A0 If the Q is satisfactory with the
> > shorted turns, then that is the way to make your design (keeping in
> > mind the disadvantages of open circuit unused turns).
>
> > However should you need the highest obtainable Q, then a single
> > isolated coil is called for which has the needed turns.
>
> > Peter- Hide quoted text -
>
> > - Show quoted text -
>
> All this very interesting; because many, many, (like 50+) years ago I
> built a signal generator, that didn't work! Nice job in an ex-
> Admiralty copper lined wooden box!
>
> Came across a complete set of coils with a multi position switch which
> covered a wide range of frequencies. Tested it out breadboard fashion
> and it worked fine. Then built it into a double layer chassis
> constructed from two thick and therefore potentially rigid and
> frequency stable pieces of Aluminum!
>
> But what I had done was dismount a set of coils from a plastic frame
> and mounted them in holes drilled into the two opposite panels of
> aluminum. Nice job mechanically but what must have hap pend is the Al.
> panels provided shorted turns in the same plane as the winding of the
> coils and reduced their Q to where the (tube, inductive feedback)
> circuit wouldn't work.
>
> Never got time to work on it because I then emigrated to North America
> and the unfinished item is long gone. Had a nice Muirhead slow motion
> drive on it too!
>
> Live and learn!

In at least some editions of "Reference Data for Radio Engineers,"
there's a graph of how much the inductance of a solenoid coil is
lowered by being placed inside a shield. If the shield isn't too
close to the coil, the percentage decrease in inductance is rather low
(the coil isn't affected very much). The graph doesn't tell you how
much the Q is lowered, but I did some comparisons of Q estimates from
a couple different solenoid coil programs I have and Q estimates for
helical resonators, and came to the conclusion that you can account
for most of the lowering of Q by assuming the RF resistance remains
constant and the inductance is lowered, per the R.D.R.E. graph
(attributed to RCA). That assumes a highly-conducting shield, I'm
sure. The observation helped dispel the "magic" aura of helical
resonators: their Q is actually lower than the Qu of the coil they

contain, if that coil is in free air. (A big advantage, of course, is that they are fully shielded.)

Cheers,
Tom

```
From -2470325772907877985
X-Google-Thread: 241b302a50,bcd236c1b235ca80
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
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Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
news.ripco.com!news-out.news.tds.net!newsreading01.news.tds.net!53ab2750!not-for-
mail
From: Jack Pagel <nz9u@tds.net>
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna advice?
References: <l9kqm.107$tG1.88@newsfe22.iad>
In-Reply-To: <l9kqm.107$tG1.88@newsfe22.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 25
Message-ID: <r6vzm.3049$cW.475@newsreading01.news.tds.net>
Date: Fri, 09 Oct 2009 00:04:39 GMT
NNTP-Posting-Host: 69.130.238.238
X-Complaints-To: news@tds.net
X-Trace: newsreading01.news.tds.net 1255046679 69.130.238.238 (Thu, 08 Oct 2009
19:04:39 CDT)
NNTP-Posting-Date: Thu, 08 Oct 2009 19:04:39 CDT
Organization: tds.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:3123
```

Ron wrote:

> Hi
>
> I have a 50 ft tower just ready to throw up something to operate.
>
> Cost is the problem but I have a lot of parts to build. I want to put up a
> dipole (I have a manual all band tuner) and my question is should feed it
> with ladder line or feed it with coax and then run each leg about 68 ft .
>
> Second idea is I have an old aluminum omni antenna that used to have 3
> traps
> within it, however at that height it will come down quickly as this antenna
> is meant to be on the ground (no ground planes) so I want to make this omni
> as long as practically possible and tune it to utilize it as best possible.
>
> Any suggestions? This is really all I have to work with. Only want to climb
> this thing a couple times and hope its good for the winter.
>

> Thanks
> 73s
>
> Ron
>
Seeing you have a tuner, I would go with an 80 meter dipole fed with the
ladder-line. One antenna for all the bands 80 thru 10. FWIW

From -949839193843489008
X-Google-Thread: 241b302a50,5372d94024c7f883
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news3
From: Bill M <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: coils : turns shorted = quality ?
Date: Thu, 08 Oct 2009 21:15:24 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 35
Message-ID: <ham9sd02d31@news3.newsguy.com>
References: <4abb1caf$0$17779$ba4acef3@news.orange.fr> <vpr0p6-
e68.ln1@nntp.rtfm.ad> <HZ6dnfAJGKv6RiPXnZ2dnUVZ_rOdnZ2d@giganews.com>
<2ccc29ad-433d-4567-b25d-f734d127c5d4@k13g2000prh.googlegroups.com>
<8jg2c5pvagfacdg8ds8t8b61t2qk4ntenb@4ax.com> <h9rh3n0gma@news2.newsguy.com>
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NNTP-Posting-Host: p6e43b847382eebaec000a34ada53da78525475e8e3ca8581.newsdawg.com
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
In-Reply-To: <a0d81a6d-b530-419e-a249-dd1e39d458dc@x6g2000prc.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3124

K7ITM wrote:

> In at least some editions of "Reference Data for Radio Engineers,"
> there's a graph of how much the inductance of a solenoid coil is
> lowered by being placed inside a shield. If the shield isn't too
> close to the coil, the percentage decrease in inductance is rather low
> (the coil isn't affected very much). The graph doesn't tell you how
> much the Q is lowered, but I did some comparisons of Q estimates from
> a couple different solenoid coil programs I have and Q estimates for
> helical resonators, and came to the conclusion that you can account
> for most of the lowering of Q by assuming the RF resistance remains
> constant and the inductance is lowered, per the R.D.R.E. graph
> (attributed to RCA). That assumes a highly-conducting shield, I'm
> sure. The observation helped dispel the "magic" aura of helical

> resonators: their Q is actually lower than the Qu of the coil they
> contain, if that coil is in free air. (A big advantage, of course, is
> that they are fully shielded.)

This gets to be a jello-y area if you follow the clues far enough. The coil's Q, or better said, the circuit's Q has a lot to do with how much spacing is required. Old timey Rule Of Thumb suggests one diameter spacing away from enclosures but thats typically relative to lower Q coils which are common rote. I make that comparison against high-Q coils in dx crystal sets where 12-18 inch separation isn't uncommon.

The textbook Q formula doesn't address this...nor is it a necessarily a biggie because most of the coils that we encounter in the situation presented in the original post aren't of high enough Q so as to present any problem.

But, it needs to be reminded that coil Q is definitely subject to its surroundings. Re-tweaking the inductance value is easy enough but you cannot recoup the loss of Q. It always depends on the specific application.

-Bill

From -3833867185026925507
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X-Google-NewGroupId: yes
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news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news3
From: Bill M <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna advice?
Date: Thu, 08 Oct 2009 21:25:07 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 16
Message-ID: <hamael02dfa@news3.newsguy.com>
References: <l9kqm.107$tG1.88@newsfe22.iad>
<r6vzm.3049$cW.475@newsreading01.news.tds.net>
NNTP-Posting-Host: p9baf113338074b164c763352dd0ac177dc01759849c14f2a.newsdawg.com
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In-Reply-To: <r6vzm.3049$cW.475@newsreading01.news.tds.net>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3125

Jack Pagel wrote:

>>
> Seeing you have a tuner, I would go with an 80 meter dipole fed with the
> ladder-line. One antenna for all the bands 80 thru 10. FWIW

Tossing out another option....

I once used a "quarter-wave sloper" off of a grounded 50 foot tower. Tower was used as a "ground plane". It did a very convincing job for DX on 40 m and was somewhat directional.

Having multiple antennas is always a bonus. Add one of these to your antenna switch!

-Bill WX4A

```
From -8102761500373048841
X-Google-Thread: 241b302a50,bcd236c1b235ca80
X-Google-Attributes: gid241b302a50,public,usenet
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X-Google-Language: ENGLISH,ASCII-7-bit
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border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 09 Oct 2009 17:08:07 -0500
Date: Fri, 09 Oct 2009 22:08:07 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna advice?
References: <l9kqm.107$tG1.88@newsfe22.iad>
<r6vzm.3049$cW.475@newsreading01.news.tds.net> <hamael02dfa@news3.newsguy.com>
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6iYQ0HD39Q==
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3126
```

Bill M wrote:
> Jack Pagel wrote:
>
>>>
>> Seeing you have a tuner, I would go with an 80 meter dipole fed with

>> the ladder-line. One antenna for all the bands 80 thru 10. FWIW
>
> Tossing out another option....
>
> I once used a "quarter-wave sloper" off of a grounded 50 foot tower.
> Tower was used as a "ground plane". It did a very convincing job for DX
> on 40 m and was somewhat directional.
>
> Having multiple antennas is always a bonus. Add one of these to your
> antenna switch!
>
> -Bill WX4A

Or...skip the HF antennas and put up a converted 18" DirecTV dish and
get on 10 GHz. At ground level and 2W, I made a 180.5 mile QSO during
the 10 GHz and Up contest last month. Didn't even break a sweat ;)

Scott
N0EDV

From -4505893005191974142
X-Google-Thread: 241b302a50,e50ed9f668ad34cb,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!feeder.erje.net!feeder.eternal-september.org!eternal-september.org!not-for-mail
From: Henry <wa0goz@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FS : GR slotted line and accesories
Date: Sat, 10 Oct 2009 22:48:06 -0500
Organization: A noiseless patient Spider
Lines: 32
Message-ID: <harkhj$58g$2@news.eternal-september.org>
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Content-Transfer-Encoding: 7bit
X-Trace: news.eternal-september.org
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X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Sun, 11 Oct 2009 03:48:03 +0000 (UTC)
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User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11) Gecko/20071127 Firefox/2.0.0.11
Xref: g2news2.google.com rec.radio.amateur.homebrew:3127

I have the following General Radio equipment for sale. All of it is
in very good condition and working:

The following items I would like to sell as a set:

1	874-LB	55 cm Slotted Line
1	874-LV	Micrometer for the slotted line
2	874-LTL	Trombone lines
1	874-GA	Adjustable Attenuator
1	874-L30	30 cm Air Line
3	874-L20	20 cm Air Lines
4	874-L10	10 cm Air Lines
1	874-F1000	1000 MHz Low Pass Filter
1	874-L500	500 MHz Low Pass Filter
1	874-D50	50 cm Adjustable Stub
1	874-D50L	50 cm Adjustable Stub
1	874-D20	20 cm Adjustable Stub
2	874-LA	Adjustable Line
5	874-T	Tee's
1	874-EL	Elbow
2	874-K	Coupling Capacitors
5	Small diameter cables with GR conn.'s on both ends	
2	Small diameter cables with GR conn. on one end and BNC on other	
1	Small diameter cable with GR conn. on one end and banana plugs on other	
5	Large diameter cables with GR conn. on both ends	

I will accept any reasonable offer plus postage. I can send pictures if requested

I can be reached at either wa0goz@arrl.net or 651-426-4144. Ask for Henry.

From 5330163529682174813
X-Google-Thread: 241b302a50,930644b6428e7d5e,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,CP1252
Path: g2news2.google.com!postnews.google.com!q40g2000prh.googlegroups.com!not-for-mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: The dish problem
Date: Mon, 12 Oct 2009 21:45:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 51
Message-ID: <4ec1b3b7-b4e6-4e4d-89aa-d019de5b2447@q40g2000prh.googlegroups.com>
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Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1255409140 4179 127.0.0.1 (13 Oct 2009 04:45:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 13 Oct 2009 04:45:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com

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Injection-Info: q40g2000prh.googlegroups.com; posting-host=219.89.65.218;
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3128
```

Hi All,

Modern engineering text indicates that for the same frequency, a large fully illuminated dish will provide more gain than it=92s smaller equivalent. Why is this ?

Consider the following scenario:

=3D=3D=3D=3D=3D=3D

Take a 10GHz RF source, and attach an appropriate feed horn to fully illuminate a 2m dia dish.

Adjust focus so that the wave front out of the dish is parallel (2m diameter ?)

At a distance, arrange the same setup, except the RF source is replaced by a detector.

Make a note of received signal strength.

=3D=3D=3D=3D=3D=3D

Repeat the same experiment at the same frequency, but with a 3mdiameter dish at each end, and appropriate feed horns .

Make a note of received signal strength.

=3D=3D=3D=3D=3D=3D

Also, see http://www.idesignz.org/misc/dishproblem.pdf

In both cases all of the TX energy is transmitted in a parallel beam, whose diameter is the same as the respective dish.

It would seem that if you can fully convert all of the TX RF into parallel waves, at some point the diameter of the dishes should not make any difference to the transfer efficiency of the system.

So, why would the received signal for the 3m + 3m dish be greater than that of the 2m + 2m dish experiment ?

Thoughts please.

Mark

http://www.idesignz.org/AMPS/AMPS_BS.html =96 Experimental AMPS micro
Base Station project

http://www.idesignz.org/UAV/index.html =96 Early work on the four rotor
FlyingThingy

From 5705432759263113920
X-Google-Thread: 241b302a50,930644b6428e7d5e
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newsfeeds.funet.fi!feeder1.news.elisa.fi!uutiset.elisa.fi!7564ea0f!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The dish problem
Message-ID: <ve28d5lgk1hgnul2e6et5e6etjqv8fqh5q@4ax.com>
References: <4ec1b3b7-b4e6-4e4d-89aa-d019de5b2447@q40g2000prh.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
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Content-Type: text/plain; charset=ISO-8859-1
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X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1255411880 85.77.192.125 (Tue, 13 Oct 2009 08:31:20
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Organization: Elisa Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:3129

On Mon, 12 Oct 2009 21:45:39 -0700 (PDT), MarkAren
<markaren10@yahoo.com> wrote:

>Hi All,
>
>Modern engineering text indicates that for the same frequency, a large
>fully illuminated dish will provide more gain than it�s smaller
>equivalent. Why is this ?
>
>Consider the following scenario:
>
>======
>
>Take a 10GHz RF source, and attach an appropriate feed horn to fully
>illuminate a 2m dia dish.
>
>Adjust focus so that the wave front out of the dish is parallel (2m
>diameter ?)
>

>At a distance, arrange the same setup, except the RF source is
>replaced by a detector.
>
>Make a note of received signal strength.
>
>======
>
>Repeat the same experiment at the same frequency, but with a
>3mdiameter dish at each end, and appropriate feed horns .
>
>Make a note of received signal strength.
>
>======
>
>Also, see http://www.idesignz.org/misc/dishproblem.pdf
>
>In both cases all of the TX energy is transmitted in a parallel beam,
>whose diameter is the same as the respective dish.

A parallel beam is not formed, rather a slightly expanding beam due to diffraction.

Diffraction also limits the resolving power of an astronomical telescope, so when looking at some binary stars, a small telescope will show only a single blob, a slightly larger telescope will show an elongated figure (e.g. figure of 8) and an even larger telescope will show two separate stars.

The diffraction limit is defined as 1.22*wavelength/diemeter radians or about 70*wavelength/diameter degrees.

Diffraction also controls the beam spreading from a parabolic disk or laser. For this reason, a laser (with an aperture less than 1 cm) can not be used to illuminate the reflectors on the moon, but typically the laser beam is transmitted through a telescope with typically 1 m diameter. The beam is 100-1000 times narrower than the beam from the laser alone. The area illuminated on the moon is 10,000-1,000,000 times smaller and hence reflected power that much stronger than with a bare laser.

Paul OH3LWR

From 4631988264757371361
X-Google-Thread: 241b302a50,930644b6428e7d5e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,CP1252
Path: g2news2.google.com!postnews.google.com!s31g2000yqs.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: The dish problem
Date: Tue, 13 Oct 2009 23:08:14 -0700 (PDT)
Organization: http://groups.google.com
Lines: 73
Message-ID: <843b039b-902a-40ea-a722-097211147dc7@s31g2000yqs.googlegroups.com>
References: <4ec1b3b7-b4e6-4e4d-89aa-d019de5b2447@q40g2000prh.googlegroups.com>
NNTP-Posting-Host: 76.226.108.39
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1255500494 21999 127.0.0.1 (14 Oct 2009 06:08:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 14 Oct 2009 06:08:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s31g2000yqs.googlegroups.com; posting-host=76.226.108.39;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win 9x 4.90; en-US; rv:1.8.1.21)
Gecko/20090331 K-Meleon/1.5.3,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3130

Hey OM:

Yes how is it? Bigger is better.
I mean you are using the same source for both antennas but how does the larger one have all that extra power, being emitted and where does all that extra power come from?

So instead of using that 400 watt microwave oven I just get me a 30 foot dish and a 20 milliwatt emitter and save all that money I would have wasted using the microwave oven, cooking my turkey.

73 OM
de n8zu

On Oct 13, 12:45 am, MarkAren <markare...@yahoo.com> wrote:

> Hi All,
>
> Modern engineering text indicates that for the same frequency, a large
> fully illuminated dish will provide more gain than it=92s smaller
> equivalent. Why is this ?
>
> Consider the following scenario:
>
> =3D=3D=3D=3D=3D=3D
>
> Take a 10GHz RF source, and attach an appropriate feed horn to fully

> illuminate a 2m dia dish.
>
> Adjust focus so that the wave front out of the dish is parallel (2m
> diameter ?)
>
> At a distance, arrange the same setup, except the RF source is
> replaced by a detector.
>
> Make a note of received signal strength.
>
> =3D=3D=3D=3D=3D=3D
>
> Repeat the same experiment at the same frequency, but with a
> 3mdiameter dish at each end, and appropriate feed horns .
>
> Make a note of received signal strength.
>
> =3D=3D=3D=3D=3D=3D
>
> Also, seehttp://www.idesignz.org/misc/dishproblem.pdf
>
> In both cases all of the TX energy is transmitted in a parallel beam,
> whose diameter is the same as the respective dish.
>
> It would seem that if you can fully convert all of the TX RF into
> parallel waves, at some point the diameter of the dishes should not
> make any difference to the transfer efficiency of the system.
>
> So, why would the received signal for the 3m + 3m dish be greater than
> that of the 2m + 2m dish experiment ?
>
> Thoughts please.
>
> Mark
>
> http://www.idesignz.org/AMPS/AMPS_BS.html=96 Experimental AMPS micro
> Base Station project
>
> http://www.idesignz.org/UAV/index.html=96 Early work on the four rotor
> FlyingThingy

From 6717134884654711160
X-Google-Thread: 241b302a50,930644b6428e7d5e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 14 Oct 2009 05:08:23 -0500
Date: Wed, 14 Oct 2009 09:44:43 +0000

```
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The dish problem
References: <4ec1b3b7-b4e6-4e4d-89aa-d019de5b2447@q40g2000prh.googlegroups.com>
<843b039b-902a-40ea-a722-097211147dc7@s31g2000yqs.googlegroups.com>
In-Reply-To: <843b039b-902a-40ea-a722-097211147dc7@s31g2000yqs.googlegroups.com>
Content-Type: text/plain; charset=windows-1252; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <IvSdnfmWS7eKPkjXnZ2dnUVZ8mudnZ2d@pipex.net>
Lines: 12
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.111.30.249
X-Trace: sv3-
lUENScCqnYAa5d0XjBwc4h1EAZyPMzqGIiK3gOt7eaUIQWp8hZuDUBaI0UvGupc95tuVId5g4hut9lY!
vemLiI4y1CfVXaP9mfVbM2NK5AfaWxsiHurSCMO4riVDT1jrEf+P8Ca2MTZn+6LNSTGv5Pj53L4o!+Cv3/
B2hyQKtHEjFqIXa1GezVA==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3131

raypsi wrote:
> So instead of using that 400 watt microwave oven I just get me a 30
> foot dish and a 20 milliwatt emitter and save all that money I would
> have wasted using the microwave oven, cooking my turkey.
>
> 73 OM
> de n8zu
======================================================
I am sure your neighbours would love that dish (NOT).


Frank    GM0CSZ / KN6WH



From -6132271559590003574
X-Google-Thread: 241b302a50,930644b6428e7d5e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,CP1252
Path: g2news2.google.com!news2.google.com!news.glorb.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 14 Oct 2009 06:39:55 -0500
Date: Wed, 14 Oct 2009 06:39:14 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
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MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The dish problem
References: <4ec1b3b7-b4e6-4e4d-89aa-d019de5b2447@q40g2000prh.googlegroups.com>
<ve28d5lgk1hgnul2e6et5e6etjqv8fqh5q@4ax.com>
In-Reply-To: <ve28d5lgk1hgnul2e6et5e6etjqv8fqh5q@4ax.com>
Content-Type: text/plain; charset=windows-1252; format=flowed
Content-Transfer-Encoding: 8bit
Message-ID: <xfSdna1drY0WJUjXnZ2dnUVZ_jZi4p2d@giganews.com>
Lines: 43
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
VOsGLILvqv7bZ4EjKNYhy7CfpQKuFzhVylGR5ljmu+s9+5BmiaUHCn1CzJ6SVaOe6FK+eauDoqKa+JY!
eXxZze/sP9w72atI6P6rIgEUIt+oz417AhbM0QSK0stB5XxPtU9uWX7u18+N3tLH/a2QhP466i0=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.40
Xref: g2news2.google.com rec.radio.amateur.homebrew:3132

Paul Keinanen wrote:
> On Mon, 12 Oct 2009 21:45:39 -0700 (PDT), MarkAren
> <markaren10@yahoo.com> wrote:
>
>> Hi All,
>>
>> Modern engineering text indicates that for the same frequency, a large
>> fully illuminated dish will provide more gain than it�s smaller
>> equivalent. Why is this ?
...
>>
>> In both cases all of the TX energy is transmitted in a parallel beam,
>> whose diameter is the same as the respective dish.
****

> A parallel beam is not formed, rather a slightly expanding beam due to
> diffraction.
>
> Diffraction also limits the resolving power of an astronomical
> telescope, so when looking at some binary stars, a small telescope
> will show only a single blob, a slightly larger telescope will show an
> elongated figure (e.g. figure of 8) and an even larger telescope will
> show two separate stars.
>
> The diffraction limit is defined as 1.22*wavelength/diemeter radians
> or about 70*wavelength/diameter degrees.
>
> Diffraction also controls the beam spreading from a parabolic disk or
> laser. For this reason, a laser (with an aperture less than 1 cm) can

```
> not be used to illuminate the reflectors on the moon, but typically
> the laser beam is transmitted through a telescope with typically 1 m
> diameter. The beam is 100-1000 times narrower than the beam from the
> laser alone. The area illuminated on the moon is 10,000-1,000,000
> times smaller and hence reflected power that much stronger than with a
> bare laser.
>
> Paul OH3LWR
>
Great response!

Brian W


From -6672319211258616522
X-Google-Thread: 241b302a50,930644b6428e7d5e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news5
From: Bill M <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The dish problem
Date: Wed, 14 Oct 2009 05:48:40 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 21
Message-ID: <hb4drc01gue@news5.newsguy.com>
References: <4ec1b3b7-b4e6-4e4d-89aa-d019de5b2447@q40g2000prh.googlegroups.com>
<843b039b-902a-40ea-a722-097211147dc7@s31g2000yqs.googlegroups.com>
NNTP-Posting-Host: p6d068edd460ba98ec403de4a073d78695bfe72aeedfe61a0.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
In-Reply-To: <843b039b-902a-40ea-a722-097211147dc7@s31g2000yqs.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3133

raypsi wrote:
> Hey OM:
>
> Yes how is it? Bigger is better.
> I mean you are using the same source for both antennas but how does
> the larger one have all that extra power, being emitted and where does
> all that extra power come from?
>
> So instead of using that 400 watt microwave oven I just get me a 30
> foot dish and a 20 milliwatt emitter and save all that money I would
> have wasted using the microwave oven, cooking my turkey.
>
> 73 OM
> de n8zu
```

It comes from "focusing" the existing energy. No new energy is created.

Yes, you *could* do that with a turkey. Just like you *could* cook it with a magnifying glass out in the sun. :)

-Bill

```
From 4446896209977184307
X-Google-Thread: 241b302a50,930644b6428e7d5e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m38g2000yqd.googlegroups.com!not-for-
mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The dish problem
Date: Thu, 15 Oct 2009 10:02:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <43d784ae-1bd3-475b-a05d-e99264e8395b@m38g2000yqd.googlegroups.com>
References: <4ec1b3b7-b4e6-4e4d-89aa-d019de5b2447@q40g2000prh.googlegroups.com>
     <843b039b-902a-40ea-a722-097211147dc7@s31g2000yqs.googlegroups.com>
     <hb4drc01gue@news5.newsguy.com>
NNTP-Posting-Host: 99.130.28.82
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-Trace: posting.google.com 1255626159 18552 127.0.0.1 (15 Oct 2009 17:02:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 15 Oct 2009 17:02:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m38g2000yqd.googlegroups.com; posting-host=99.130.28.82;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win 9x 4.90; en-US; rv:1.8.1.21)
     Gecko/20090331 K-Meleon/1.5.3,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3134
```

Hey OM:

Take a 60db gain dish illuminate that with 20 milliwatts of power.
Your ERP is now 20,000 watts.

My question raises the bar, how can you focus 20 milliwatts of EM particles and waves, to end up with 20,000 watts of EM particles and waves? And I can bet that it's all those extra particles that are going to be cooking my turkey.

There's only one way that can happen: the dish is a storage device: the size and frequency of which determine the storage capacity in this case the storage capacity gives me a 60db gain. And will always give you 60db more than you put in.

73 OM

de n8zu
>
> It comes from "focusing" the existing energy. No new energy is created.
>
> Yes, you *could* do that with a turkey. Just like you *could* cook it
> with a magnifying glass out in the sun. :)
>
> -Bill

From 2626159458968000879
X-Google-Thread: 241b302a50,930644b6428e7d5e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!q14g2000vbi.googlegroups.com!not-for-mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The dish problem
Date: Thu, 15 Oct 2009 11:08:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 27
Message-ID: <5e1a3d2d-e6ef-4588-8c35-9a7579061aef@q14g2000vbi.googlegroups.com>
References: <4ec1b3b7-b4e6-4e4d-89aa-d019de5b2447@q40g2000prh.googlegroups.com>
     <843b039b-902a-40ea-a722-097211147dc7@s31g2000yqs.googlegroups.com>
     <hb4drc01gue@news5.newsguy.com> <43d784ae-1bd3-475b-a05d-e99264e8395b@m38g2000yqd.googlegroups.com>
NNTP-Posting-Host: 142.162.128.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1255630129 588 127.0.0.1 (15 Oct 2009 18:08:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 15 Oct 2009 18:08:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q14g2000vbi.googlegroups.com; posting-host=142.162.128.246;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3135

On Oct 15, 3:02=A0pm, raypsi <rborow...@gmail.com> wrote:
> Hey OM:
>
> Take a 60db gain dish illuminate that with =A020 milliwatts of power.
> Your ERP is now 20,000 watts.

>
> My question raises the bar, how can you focus 20 milliwatts of EM
> particles and waves, to end up with 20,000 watts of EM particles and
> waves? And I can bet that it's all those extra particles that are
> going to be cooking my turkey.
>
> There's only one way that can happen: the dish is a storage device:
> the size and frequency of which determine the storage capacity in this
> case the storage capacity gives me a 60db gain. And will always give
> you 60db more than you put in.
>
> 73 OM
>
> de n8zu
>

60db in one specific direction more than if same amount of RF was
dissipated equally in all directions. Correct?
Would not matter if starting with one milliwatt, one watt, one
megawatt.
The beaming effect will concentrate the available energy from all
directions in a specific one.

From -3515788124039947398
X-Google-Thread: 241b302a50,930644b6428e7d5e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe23.iad.POSTED!269d8c94!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The dish problem
References: <4ec1b3b7-b4e6-4e4d-89aa-d019de5b2447@q40g2000prh.googlegroups.com>
<843b039b-902a-40ea-a722-097211147dc7@s31g2000yqs.googlegroups.com>
<hb4drc01gue@news5.newsguy.com> <43d784ae-1bd3-475b-a05d-
e99264e8395b@m38g2000yqd.googlegroups.com>
From: Lawrence Statton <yankeeinexile@gmail.com>
Message-ID: <m163ag2n7a.fsf@mac.lan>
User-Agent: Gnus/5.11 (Gnus v5.11) Emacs/22.3 (darwin)
Cancel-Lock: sha1:5Au1dAdtCCAVhetlx/Kl0VkbUeg=
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Lines: 42
X-Complaints-To: abuse@WWWSpace.NET
NNTP-Posting-Date: Fri, 16 Oct 2009 00:32:11 UTC
Date: Thu, 15 Oct 2009 19:32:09 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:3136

raypsi <rborowiak@gmail.com> writes:

> Hey OM:

>
> Take a 60db gain dish illuminate that with 20 milliwatts of power.
> Your ERP is now 20,000 watts.

EIRP, actually ... Radiated power, relative to a (abstract) isotropic radiator.

> My question raises the bar, how can you focus 20 milliwatts of EM
> particles and waves, to end up with 20,000 watts of EM particles and
> waves?

You can't. You're just focusing that 20 mW of power in the "useful direction"

Imagine an incandescent light bulb hanging from a wire -- this is a reasonable metaphor for an isotropic radiator - it puts out (nearly) the same amount of light in all directions ... If the light isn't bright enough to read a book, you might put a reflector behind it - there is no more light being generated, but the page just got brighter, because some of the energy that was illuminating the garage roof, your head, the walls and the junk on the shelves is now illuminating the page.

> And I can bet that it's all those extra particles that are
> going to be cooking my turkey.

There are no particles, and there are no "extra" particles.

> de n8zu
>>
>> It comes from "focusing" the existing energy. No new energy is created.
>>
>> Yes, you *could* do that with a turkey. Just like you *could* cook it
>> with a magnifying glass out in the sun. :)

Indeed - first you heat one molecule of water, then refocus the beam, heat the next, repeat 6 x 10**23 times for each mole of turkey.

>>
>> -Bill

From 1400914084535180329
X-Google-Thread: 241b302a50,930644b6428e7d5e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!m11g2000yqf.googlegroups.com!not-for-mail
From: raypsi <rborowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The dish problem
Date: Fri, 16 Oct 2009 06:57:05 -0700 (PDT)
Organization: http://groups.google.com

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Lines: 34
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     <843b039b-902a-40ea-a722-097211147dc7@s31g2000yqs.googlegroups.com>
     <hb4drc01gue@news5.newsguy.com> <43d784ae-1bd3-475b-a05d-
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     <m163ag2n7a.fsf@mac.lan>
NNTP-Posting-Host: 76.232.149.163
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1255701425 8017 127.0.0.1 (16 Oct 2009 13:57:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 16 Oct 2009 13:57:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m11g2000yqf.googlegroups.com; posting-host=76.232.149.163;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x
     4.90),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3137
```

Hey OM

What you are saying is that I can take a 20 mW emitter and with an infinite size dish I can get infinite power from a 20 mW emitter?

No way you can get infinite power from a 20 mW source unless the dish is supplying the extra power. In other words it's not possible to get infinite power focused from a 20 mW source, and that all that power is coming from the 20 mW emitter.

Take that 20 mW emitters' isotropic pattern, there is a potential of an infinite amount of power in that pattern because it can be focused?

Frying that turkey only takes 20 mW of total power period. And it may or may not be from focusing the 20 mW. The turkey gets cooked with 20 mW is still a fact that can't be refutted.

73 OM
de n8zu

```
> You can't. =A0You're just focusing that 20 mW of power in the "useful
> direction" =A0
>
>>
>
>
> >> -Bill- Hide quoted text -
```

>
> - Show quoted text -

```
From 960926573505563612
X-Google-Thread: 241b302a50,930644b6428e7d5e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe16.iad.POSTED!fd24bd7a!not-for-mail
From: gwatts <gwatts@frontnet.net>
User-Agent: Thunderbird 2.0.0.23 (Windows/20090812)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The dish problem
References: <4ec1b3b7-b4e6-4e4d-89aa-d019de5b2447@q40g2000prh.googlegroups.com>
     <843b039b-902a-40ea-a722-097211147dc7@s31g2000yqs.googlegroups.com>
     <hb4drc01gue@news5.newsguy.com> <43d784ae-1bd3-475b-a05d-
e99264e8395b@m38g2000yqd.googlegroups.com>     <m163ag2n7a.fsf@mac.lan>
<8720ff4b-1462-4479-8eef-98409ab1884d@m11g2000yqf.googlegroups.com>
In-Reply-To: <8720ff4b-1462-4479-8eef-98409ab1884d@m11g2000yqf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 61
Message-ID: <4R%Bm.262974$cf6.261694@newsfe16.iad>
X-Complaints-To: abuse-news@frontiernet.net
NNTP-Posting-Date: Fri, 16 Oct 2009 14:57:04 UTC
Organization: Frontier
Date: Fri, 16 Oct 2009 10:57:03 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:3138
```

raypsi wrote:
> Hey OM
>
> What you are saying is that I can take a 20 mW emitter and with an
> infinite size dish I can get infinite power from a 20 mW emitter?

You can get infinite *Effective Isotropic Radiated Power* from 20 mW with an infinite dish. Not practical, but theoretically correct.

You're misunderstanding EIRP, Effective Isotropic Radiated Power. If you feed a 60 dB parabolic antenna with 20 mW you get the equivalent of feeding a theoretical *isotropic* radiator with 20 kW, the key word being 'isotropic,' meaning that 20 kW is being radiated in all directions. Your 60 dB dish directs your 20 mW *in a specific direction* with a *specific* beam width. *In that beam* the field strength is the same as it would be from 20 kW *going in every direction*. The ratio of every direction to your dish's beam width is 60 dB.

> No way you can get infinite power from a 20 mW source unless the dish
> is supplying the extra power. In other words it's not possible to get
> infinite power focused from a 20 mW source, and that all that power is
> coming from the 20 mW emitter.

You're not getting infinite power, you're getting 20 mW focused into a
finite beam width and in that beam width it has the same field strength
that 20 kW going in all directions would give you.

> Take that 20 mW emitters' isotropic pattern, there is a potential of
> an infinite amount of power in that pattern because it can be
> focused?

Only if it can be focused into an infinitely small point which you won't
get from any finite gain antenna.

> Frying that turkey only takes 20 mW of total power period. And it may
> or may not be from focusing the 20 mW. The turkey gets cooked with 20
> mW is still a fact that can't be refutted.

Part of that fact is it will take a long, long time to cook it with only
20 mW because you can only cook (defined as raising the temperature to
about 160 F) a very, very small portion of the turkey at a time with
only 20 mW.

- W8LNA

>
> 73 OM
> de n8zu
>
>
>
>
>> You can't. You're just focusing that 20 mW of power in the "useful
>> direction"
>>
>>
>>>> -Bill- Hide quoted text -
>> - Show quoted text -
>

From 6245936812898487437
X-Google-Thread: 241b302a50,a8e45e281ebe39c9,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
newsfeed0.kamp.net!newsfeed.kamp.net!82.197.223.106.MISMATCH!
feeder1.cambriumusenet.nl!feed.tweaknews.nl!193.201.147.78.MISMATCH!feeder.news-
service.com!cyclone02.ams2.highwinds-media.com!news.highwinds-media.com!

npeersf01.ams.highwinds-media.com!newsfe10.ams2.POSTED!7564ea0f!not-for-mail
From: "Newsreader" <Newsreader@uk.radio.amateur>
Newsgroups: rec.radio.amateur.homebrew
Subject: Crystals needed.
Lines: 6
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <1k_7m.16120$xB.9768@newsfe10.ams2>
NNTP-Posting-Host: 86.15.196.162
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe10.ams2 1247834493 86.15.196.162 (Fri, 17 Jul 2009 12:41:33 UTC)
NNTP-Posting-Date: Fri, 17 Jul 2009 12:41:33 UTC
Organization: virginmedia.com
Date: Fri, 17 Jul 2009 13:41:33 +0100
Xref: g2news2.google.com rec.radio.amateur.homebrew:2938

Does anyone have any 10X, FT243 or HC6/U style crystals on these
frequencies?
3.560, 10.100, 10.116, 10.140 (all in MHz)
Any help would be appreciated - willing to pay costs.

From 4259984475363124735
X-Google-Thread: 241b302a50,a8e45e281ebe39c9
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 17 Jul 2009 09:48:27 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Crystals needed.
Newsgroups: rec.radio.amateur.homebrew
References: <1k_7m.16120$xB.9768@newsfe10.ams2>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <roydnf6Va7OmEv3XnZ2dnUVZ_hti4p2d@web-ster.com>
Date: Fri, 17 Jul 2009 09:48:27 -0500
Lines: 17
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X-Trace: sv3-wv8A/SYo4/q8AK/HtN95Kug3XrITGRJ2RKBqqCl1PlsRnL57euZGubt/
RSqKhiX6IaohvrfwbpuE0CH!
0x83mT9pACAB6yIIrENikET50sBoilRWz82l9wgS8H0OkvnNWjHOyLAYwzWLy6FcyZMwp0R6DeP4!
IwEYlUis9YDgIrM=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers

X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1589
Xref: g2news2.google.com rec.radio.amateur.homebrew:2939

On Fri, 17 Jul 2009 13:41:33 +0100, Newsreader wrote:

> Does anyone have any 10X, FT243 or HC6/U style crystals on these
> frequencies?
> 3.560, 10.100, 10.116, 10.140 (all in MHz) Any help would be appreciated
> - willing to pay costs.

AFAIK Jan and Fox both still make HC6/U crystals to whatever frequency you want.

There are ads in QST for crystals in FT243 holders, although I'd be leery of quality until I'd had some mileage with a particular vendor.

So if you don't mind new (and new prices) you can get what you want.

--
www.wescottdesign.com

From -6200388242352611746
X-Google-Thread: 241b302a50,4331d3aa4cb1cc9a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!26g2000yqk.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Use old microwave cabinets?
Date: Sat, 18 Jul 2009 12:49:27 -0700 (PDT)
Organization: http://groups.google.com
Lines: 35
Message-ID: <9c576709-cdd3-4c59-8753-a352aabab1e6@26g2000yqk.googlegroups.com>
References: <b1038409-08d1-41f6-ab48-5b92cae0b5a6@c36g2000yqn.googlegroups.com>
     <npy4m.1239$P5.754@nwrddc02.gnilink.net>
<omt5551aobcsghuuvi1ujj38gm2ovu0fd7@4ax.com>
     <5ff470e3-0131-4678-9fbd-246c9460fc68@n11g2000yqb.googlegroups.com>
     <a1a44135-52b0-4259-a689-985344563922@f30g2000vbf.googlegroups.com>
     <7bae619a-1f0a-4975-b139-3ef106070062@j12g2000vbl.googlegroups.com>
NNTP-Posting-Host: 75.191.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1247946567 18012 127.0.0.1 (18 Jul 2009 19:49:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 18 Jul 2009 19:49:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com

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Injection-Info: 26g2000yqk.googlegroups.com; posting-host=75.191.176.71;
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     Trident/4.0; FunWebProducts; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET
     CLR 3.5.30729; WinNT-PAI 05.07.2009),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2940

On Jul 15, 10:52=A0pm, stan <tsanf...@nf.sympatico.ca> wrote:
> On Jul 13, 1:02=A0am, raypsi <RBorow...@gmail.com> wrote:
>
> > Hey OM:
>
> > Microwave ovens are built for a price, the cheaper the better. The
> > Chinese have a lot of crap out there. Even the fans are junk. I mean
> > who uses a shaded pole syncro motor for a fan these days, power hungry
> > junk. Best you could get out of a microwave oven is the metal cabinet
> > can be cut up with scissors, that's right, dollar store scissors, will
> > cut the sheet metal they use on microwave ovens. And with a good brake
> > you can make a lot of project boxes.
>
> > Well stainless steel project boxes would look sweet.
>
> > 73 OM
> > de n8zu
>
> Yup somebody gave me a stainless four section container which appears
> to be unused and from an old fashioned ice-cream parlour/soda
> fountain. There is also a single container, same depth and height etc.
> And there is a nice rim around the open ends to which a front panel
> could fastened!
> Immediately thought of ready-made small equipment cabinets!
> Scrapping a bunch of old microwaves is what raised the question of a
> reuse for the cabinets. We had a school cafeteria operation one time
> with three or four m.waves in use for short periods, on several
> occasions was able to scrap older ones for parts for repairs. Now just
> junk lying around!

I saw one at a hamfest in the tailgate section someone was trying to
sell that was turned into a HV power supply and it used a pair of
microwave oven transformers.

Jimmie


From -4241717740717832141
X-Google-Thread: 241b302a50,4331d3aa4cb1cc9a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!news.svpal.org!xmission!news.bbs-scene.org!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
```

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news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 18 Jul 2009 15:57:40 -0500
Date: Sat, 18 Jul 2009 15:57:13 -0500
From: brian whatcott <betwys1@sbcglobal.net>
Reply-To: betwys1@sbcglobal.net
User-Agent: Thunderbird 2.0.0.22 (Windows/20090605)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Use old microwave cabinets?
References: <b1038409-08d1-41f6-ab48-5b92cae0b5a6@c36g2000yqn.googlegroups.com>
     <npy4m.1239$P5.754@nwrddc02.gnilink.net>
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<5ff470e3-0131-4678-9fbd-246c9460fc68@n11g2000yqb.googlegroups.com>
     <a1a44135-52b0-4259-a689-985344563922@f30g2000vbf.googlegroups.com>
     <7bae619a-1f0a-4975-b139-3ef106070062@j12g2000vbl.googlegroups.com>
<9c576709-cdd3-4c59-8753-a352aabab1e6@26g2000yqk.googlegroups.com>
In-Reply-To: <9c576709-cdd3-4c59-8753-a352aabab1e6@26g2000yqk.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <ndmdnaUdXOPZqv_XnZ2dnUVZ_jqdnZ2d@giganews.com>
Lines: 42
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j1UxnncgdcH!DAK1j12hBvPgLPznsJrU0Ca0WAj5x3Ip1lPEpwGHky4q/A1Nsz58epDZNKWVPLzz3w/
RE4U6WL0=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2941

JIMMIE wrote:
> On Jul 15, 10:52 pm, stan <tsanf...@nf.sympatico.ca> wrote:
>> On Jul 13, 1:02 am, raypsi <RBorow...@gmail.com> wrote:
>>
>>> Hey OM:
>>> Microwave ovens are built for a price, the cheaper the better. The
>>> Chinese have a lot of crap out there. Even the fans are junk. I mean
>>> who uses a shaded pole syncro motor for a fan these days, power hungry
>>> junk. Best you could get out of a microwave oven is the metal cabinet
>>> can be cut up with scissors, that's right, dollar store scissors, will
>>> cut the sheet metal they use on microwave ovens. And with a good brake
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>>> 73 OM
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>> Yup somebody gave me a stainless four section container which appears
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>> fountain. There is also a single container, same depth and height etc.
>> And there is a nice rim around the open ends to which a front panel
>> could fastened!
```

>> Immediately thought of ready-made small equipment cabinets!
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>
> I saw one at a hamfest in the tailgate section someone was trying to sell that was turned into a HV power supply and it used a pair of microwave oven transformers.
>
> Jimmie

Instead of the 1 KV power supply at 1 Amp, there's the possibility of bandsawing off the high voltage winding all together, and winding on 5 or 6 turns of welding cable.   This makes a useful spot welder for stainless steel sheet, which material performs specially well with spot welds.
The power is low end so its important to choose a microwave rated at least 1100 watts for this makeover.

Brian W

From 2863037494578052719
X-Google-Thread: 241b302a50,4331d3aa4cb1cc9a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!z34g2000vbl.googlegroups.com!not-for-mail
From: stan <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Use old microwave cabinets?
Date: Tue, 21 Jul 2009 16:36:10 -0700 (PDT)
Organization: http://groups.google.com
Lines: 57
Message-ID: <a10cb9c5-adff-46bb-b71d-9d38ad995965@z34g2000vbl.googlegroups.com>
References: <b1038409-08d1-41f6-ab48-5b92cae0b5a6@c36g2000yqn.googlegroups.com>
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<5ff470e3-0131-4678-9fbd-246c9460fc68@n11g2000yqb.googlegroups.com>
<a1a44135-52b0-4259-a689-985344563922@f30g2000vbf.googlegroups.com>
<7bae619a-1f0a-4975-b139-3ef106070062@j12g2000vbl.googlegroups.com>
<9c576709-cdd3-4c59-8753-a352aabab1e6@26g2000yqk.googlegroups.com>
<ndmdnaUdXOPZqv_XnZ2dnUVZ_jqdnZ2d@giganews.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1248219371 1890 127.0.0.1 (21 Jul 2009 23:36:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 21 Jul 2009 23:36:11 +0000 (UTC)

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Complaints-To: groups-abuse@google.com
Injection-Info: z34g2000vbl.googlegroups.com; posting-host=142.162.128.246;
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2942

On Jul 18, 6:57=A0pm, brian whatcott <betw...@sbcglobal.net> wrote:
> JIMMIE wrote:
> > On Jul 15, 10:52 pm, stan <tsanf...@nf.sympatico.ca> wrote:
> >> On Jul 13, 1:02 am, raypsi <RBorow...@gmail.com> wrote:
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> >>> junk. Best you could get out of a microwave oven is the metal cabinet
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>
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> bandsawing off the high voltage winding all together, and winding on 5
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> stainless steel sheet, which material performs specially well with spot
> welds.
> The power is low end so its important to choose a microwave rated at
> least 1100 watts for this makeover.
>
```

> Brian W- Hide quoted text -
>
> - Show quoted text -

Same technique (cutting off HV winding and putting a few turns to make
a battery charger transformer was also mentioned.
And previously had mentioned that HV winding to 115 volt mains winding
was a turns/voltage ratio of approx 20:1.
Hence an impedance matching ratio of 400 to one! Might be good enough
to match an 8 ohm speaker load into say a triode connected power tube?
400 x 8 =3D 3200? Haven't tried it! Just rambling around. Hate to throw
stuff away.

From 2294646626051870686
X-Google-Thread: 241b302a50,1ce9f6c6b241924a,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!c1g2000yqi.googlegroups.com!not-for-mail
From: spamhog <n1jpr@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Did anybody use the Si4735 quasi-SDR-SOC in a HB receiver?
Date: Wed, 22 Jul 2009 11:02:25 -0700 (PDT)
Organization: http://groups.google.com
Lines: 30
Message-ID: <44308f14-f0a5-4dd3-a631-37ea880b76fb@c1g2000yqi.googlegroups.com>
NNTP-Posting-Host: 78.14.235.251
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1248285745 29393 127.0.0.1 (22 Jul 2009 18:02:25 GMT)
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NNTP-Posting-Date: Wed, 22 Jul 2009 18:02:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c1g2000yqi.googlegroups.com; posting-host=78.14.235.251;
     posting-account=tuTwjgoAAABgsw0HP7EbLMV3yMd8jh4C
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.64 (Windows NT 5.1; U; en) Presto/2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2943

"The Si473x, Si474x and Si4707 devices are the industry's first fully
integrated, 100% CMOS AM/FM/SW/LW and WB radio receiver ICs. Offering
unmatched integration and PCB space savings, the Si47xx only requires
two external components and less than 15 mm=B2 of board area excluding
the antenna inputs."

In chippic language, this thing has PGA, DSP, ADC, DAC. While there's
a PGA block that seems non-FP, the DSP is upgradeable - hence
reconfigurable, although I bet the code is closed and well guarded.

In radio language it implements 2x AGCed LNA, 4x balanced mixer, 2x I/Q detectors, DSP demodulation, RDS/RMBS, both digital and analog audio out (stereo of course).

https://www.silabs.com/products/audiovideo/amfmreceivers/Pages/default.aspx

https://www.silabs.com/products/audiovideo/amfmreceivers/Pages/Si473435.asp=
x

The application notes document for antenna selection and layout is not to be found on the Silicon Labs website, is still under NDA but a version for a shortwaveless version has leaked from Russia.
http://delanet.ru/images/stories/pdf/AN383_si4711.pdf

Several chips in the that family have transmit capabilities too, complete with varicap antenna tuner.

A quasi-SDR-SOC, taking up less room than a small knob.

From 3300891859859956390
X-Google-Thread: 241b302a50,1ce9f6c6b241924a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2.glorb.com!
news.litech.org!not-for-mail
From: mikea <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Did anybody use the Si4735 quasi-SDR-SOC in a HB receiver?
Date: Wed, 22 Jul 2009 13:14:09 -0500
Organization: Litech Systems Design
Lines: 35
Sender: mikea@mikea.ath.cx
Message-ID: <hg1kj6-23h.ln1@mikea.ath.cx>
References: <44308f14-f0a5-4dd3-a631-37ea880b76fb@c1g2000yqi.googlegroups.com>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1248286455 1941 70.164.65.62 (22 Jul 2009 18:14:15 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Wed, 22 Jul 2009 18:14:15 +0000 (UTC)
X-Not-Approved: YouBetcherArse@example.com
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (FreeBSD/7.1-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:2944

spamhog <n1jpr@hotmail.com> wrote in <44308f14-f0a5-4dd3-a631-37ea880b76fb@c1g2000yqi.googlegroups.com>:

> "The Si473x, Si474x and Si4707 devices are the industry's first fully
> integrated, 100% CMOS AM/FM/SW/LW and WB radio receiver ICs. Offering
> unmatched integration and PCB space savings, the Si47xx only requires
> two external components and less than 15 mm? of board area excluding
> the antenna inputs."

>
> In chippic language, this thing has PGA, DSP, ADC, DAC. While there's
> a PGA block that seems non-FP, the DSP is upgradeable - hence
> reconfigurable, although I bet the code is closed and well guarded.
>
> In radio language it implements 2x AGCed LNA, 4x balanced mixer, 2x I/
> Q detectors, DSP demodulation, RDS/RMBS, both digital and analog audio
> out (stereo of course).
>
> https://www.silabs.com/products/audiovideo/amfmreceivers/Pages/default.aspx
>
> https://www.silabs.com/products/audiovideo/amfmreceivers/Pages/Si473435.aspx
>
> The application notes document for antenna selection and layout is not
> to be found on the Silicon Labs website, is still under NDA but a
> version for a shortwaveless version has leaked from Russia.
> http://delanet.ru/images/stories/pdf/AN383_si4711.pdf
>
> Several chips in the that family have transmit capabilities too,
> complete with varicap antenna tuner.
>
> A quasi-SDR-SOC, taking up less room than a small knob.

Drooooooolworthy!

--
" ... a language is just an dialect with an army and a navy."
                  -- written by someone very perceptive,
                    used by Paul Tomblin in a.s.r.

From 3614559517109312046
X-Google-Thread: 241b302a50,e65f8ce83dca27a6,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: WTB QEX Magazines
Date: Wed, 22 Jul 2009 14:09:09 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
Message-ID: <2b999$4a6763d5$d8baf330$794@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 7
X-Trace: 2b9994a6763d57d1f569500794

Xref: g2news2.google.com rec.radio.amateur.homebrew:2945 rec.radio.amateur.antenna:13273

Hi All,
 I'd like to buy some back issues of QEX. Preferably from the last 4 yrs or so.
Please respond by email.
                     Thanks, Mike

From 7417127142826321026
X-Google-Thread: 733d321764,851919e987c2851a,start
X-Google-Attributes: gid733d321764,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-06.dc1.easynews.com.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.swap
From: Keith <kilowattradio@use-reply-to.invalid>
Subject: Re: WTB QEX Magazines
References: <2b999$4a6763d5$d8baf330$794@KNOLOGY.NET>
Organization: http://slrn.org/ Open Source Software
Reply-To: kilowattradio@gmail.com
User-Agent: slrn/pre1.0.0-2 (Linux)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 19
Message-ID: <EZL9m.423917$jp1.239823@en-nntp-06.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Wed, 22 Jul 2009 22:00:04 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2946 rec.radio.amateur.antenna:13276 rec.radio.swap:2284

On 2009-07-22, amdx <amdx@knology.net> wrote:
> Hi All,
> I'd like to buy some back issues of QEX. Preferably from the last 4 yrs or
> so.
> Please respond by email.
>   Thanks, Mike
>
>

You should put a wanted ad on qrz.com & eham.net since
a lot of hams check the want and sale ads every week.

http://www.arrl.org/qex/

```
--
Best Regards, Keith
http://home.comcast.net/~kilowattradio/


From -3108539255661870105
X-Google-Thread: 4baf9708d4,e65f8ce83dca27a6
X-Google-Attributes: gid4baf9708d4,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!f18g2000prf.googlegroups.com!not-for-
mail
From: rkmr15203@yahoo.com
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: WTB QEX Magazines
Date: Mon, 27 Jul 2009 09:16:14 -0700 (PDT)
Organization: http://groups.google.com
Lines: 9
Message-ID: <f3d36e80-6730-48c2-b43f-be9f3ab9f760@f18g2000prf.googlegroups.com>
References: <2b999$4a6763d5$d8baf330$794@KNOLOGY.NET>
NNTP-Posting-Host: 209.195.188.121
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1248711377 22005 127.0.0.1 (27 Jul 2009 16:16:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 27 Jul 2009 16:16:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f18g2000prf.googlegroups.com; posting-host=209.195.188.121;
     posting-account=rsR5XQkAAAAqFqxLcvkRWsjiwaSLLd17
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; Intel Mac OS X 10.5; en-US;
     rv:1.9.0.11) Gecko/2009060214 Firefox/3.0.11,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2947
rec.radio.amateur.antenna:13316

On Jul 22, 3:09=A0pm, "amdx" <a...@knology.net> wrote:
> Hi All,
> =A0I'd like to buy some back issues of QEX. Preferably from the last 4 yr=
s or
> so.
> Please respond by email.
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0Thanks, Mike

Go to ARRL.org and buy the CD's.


From -5848799392110726771
X-Google-Thread: 4baf9708d4,e65f8ce83dca27a6
X-Google-Attributes: gid4baf9708d4,public,usenet
X-Google-NewGroupId: yes
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
References: <2b999$4a6763d5$d8baf330$794@KNOLOGY.NET> <f3d36e80-6730-48c2-b43f-
be9f3ab9f760@f18g2000prf.googlegroups.com>
Subject: Re: WTB QEX Magazines
Date: Mon, 27 Jul 2009 14:07:37 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Message-ID: <693be$4a6dfafc$d8baf3ed$19734@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 16
X-Trace: 693be4a6dfafc7d1f564819734
Xref: g2news2.google.com rec.radio.amateur.homebrew:2948
rec.radio.amateur.antenna:13318

<rkmr15203@yahoo.com> wrote in message
news:f3d36e80-6730-48c2-b43f-be9f3ab9f760@f18g2000prf.googlegroups.com...
On Jul 22, 3:09 pm, "amdx" <a...@knology.net> wrote:
> Hi All,
> I'd like to buy some back issues of QEX. Preferably from the last 4 yrs or
> so.
> Please respond by email.
> Thanks, Mike

Go to ARRL.org and buy the CD's.

Ya, I thought about it, but I like the physical magazine.
Thanks, Mike

From 1646328885855324285
X-Google-Thread: 241b302a50,df8ad46374736e7a,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y10g2000prf.googlegroups.com!not-for-
mail
From: "acannell@wwc.com" <acannell@wwc.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: best setup for vehicle to base communication seperated by 100 to 500
miles?
Date: Tue, 28 Jul 2009 08:38:57 -0700 (PDT)

```
Organization: http://groups.google.com
Lines: 5
Message-ID: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
NNTP-Posting-Host: 68.111.195.232
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1248795538 11577 127.0.0.1 (28 Jul 2009 15:38:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 28 Jul 2009 15:38:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y10g2000prf.googlegroups.com; posting-host=68.111.195.232;
     posting-account=b3sKJgkAAADV_Tu4zSfMEcdQE5hB47UG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1) ),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2949

im an EE, but have never gotten into ham radio. Now, I have a reason!
Im going off roading in the california desert, and I'd like to be able
to communicate back home in San Diego. What band and equipment would
be the best (for both base and mobile) in order to communicate
reliably during the day? Or is this unreasonable?



From -2180625682891465146
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 28 Jul 2009 13:38:12 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: best setup for vehicle to base communication seperated by 100
 to 500
     miles?
Newsgroups: rec.radio.amateur.homebrew
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>
Date: Tue, 28 Jul 2009 13:38:12 -0500
Lines: 33
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-jcCwdnRZpv9ywlfLjmf4o6FATYXXBhkUtCAxfh7QPl7TmxKPgighlJTIw4JmM9k/
Q2tLF9DC+Hsw6Wh!jaFFp+7cuqniyI/
KVaCJoxL5bbZmrm+2anJ8zAgmhe8TU5XcoeVs56+CR9A0InnvSicT6UoeAeJ3!8vXfYmdqzfsDKbI=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2733
Xref: g2news2.google.com rec.radio.amateur.homebrew:2950

On Tue, 28 Jul 2009 08:38:57 -0700, acannell@wwc.com wrote:

> im an EE, but have never gotten into ham radio. Now, I have a reason! Im
> going off roading in the california desert, and I'd like to be able to
> communicate back home in San Diego. What band and equipment would be the
> best (for both base and mobile) in order to communicate reliably during
> the day? Or is this unreasonable?

Someone will disagree, and we'll both learn something...

For getting through with just your equipment probably HF; on a truck it's probably best to count on 20m, although at that distance 80m is inherently 'better' for ground-wave daytime local-ish communication.

For getting through all the time, and assuming there's coverage, a repeater. It won't get you all the way home unless there's a phone patch available or an intertie. Since repeater clubs have widely varying policies regarding furreners using their equipment, and the most common arrangement is that anyone can use the repeater but only club members get the magic finger ring combination to open the patch or the intertie you may want to do some research.

For getting through all the time, with cost and effort rivaled by buying a second rig to tow behind your main rig just so you can drive home, you could set up for satellite operation. I'm not recommending this unless you just plain want to have fun with it, but there you are.

Note that _all_ of these options except for the phone patch require that you have someone with an amateur license and a matching radio on the other end.

--
www.wescottdesign.com

From 3733216839229153625
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!cyclone01.ams2.highwinds-media.com!news.highwinds-media.com!npeersf01.ams.highwinds-media.com!newsfe06.ams2.POSTED!7564ea0f!not-for-mail
Message-ID: <CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100 to 500 miles?
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
 <gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>

Lines: 49
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.06-S (<fZeqWqf3KPTh6NCj$JIoeg1JlX>)
NNTP-Posting-Host: 80.176.138.122
X-Complaints-To: abuse@demon.net
X-Trace: newsfe06.ams2 1248809855 80.176.138.122 (Tue, 28 Jul 2009 19:37:35 UTC)
NNTP-Posting-Date: Tue, 28 Jul 2009 19:37:35 UTC
Date: Tue, 28 Jul 2009 20:37:29 +0100
Xref: g2news2.google.com rec.radio.amateur.homebrew:2951

In message <gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>, Tim Wescott
<tim@seemywebsite.com> writes
>On Tue, 28 Jul 2009 08:38:57 -0700, acannell@wwc.com wrote:
>
>> im an EE, but have never gotten into ham radio. Now, I have a reason! Im
>> going off roading in the california desert, and I'd like to be able to
>> communicate back home in San Diego. What band and equipment would be the
>> best (for both base and mobile) in order to communicate reliably during
>> the day? Or is this unreasonable?
>
>Someone will disagree, and we'll both learn something...
>
>For getting through with just your equipment probably HF; on a truck it's
>probably best to count on 20m, although at that distance 80m is
>inherently 'better' for ground-wave daytime local-ish communication.
>
>For getting through all the time, and assuming there's coverage, a
>repeater. It won't get you all the way home unless there's a phone patch
>available or an intertie. Since repeater clubs have widely varying
>policies regarding furreners using their equipment, and the most common
>arrangement is that anyone can use the repeater but only club members get
>the magic finger ring combination to open the patch or the intertie you
>may want to do some research.
>
>For getting through all the time, with cost and effort rivaled by buying
>a second rig to tow behind your main rig just so you can drive home, you
>could set up for satellite operation. I'm not recommending this unless
>you just plain want to have fun with it, but there you are.
>
>Note that _all_ of these options except for the phone patch require that
>you have someone with an amateur license and a matching radio on the
>other end.
>

In the height of summer, in daytime, a maximum of around 300 miles would
be normal for 80m, but I think you'll be lucky reliably to get 500
miles. In fact, apart from very local stations, you could find 80m
totally dead between 11am and 2pm. Depending on ground conductivity,
groundwave goes out to around 20 miles before skywave really takes over.

If the sunspots on the sun had been a bit more active, and conditions on
40m had been 'normal', this band would have been a the definite
'general-purpose' choice. Groundwave is noticeably less than on 80m.

Typical communication range is 50 to 500+ miles.

On 20m, 100 miles is a bit close. You're unlikely to get reliable communication at less than 250 or 300 miles. Groundwave is even less than 40 - maybe only 5 miles.
--
Ian

From -4914568723111097180
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!transit3.readnews.com!news-out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: "Geoffrey S. Mendelson" <gsm@mendelson.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100 to 500 miles?
Date: Tue, 28 Jul 2009 20:24:04 +0000 (UTC)
Organization: MGT Consulting
Lines: 21
Message-ID: <slrnh6unej.jno.gsm@cable.mendelson.com>
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
 <gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>
 <CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-139-112-64.bb.netvision.net.il
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: max.inside.misty.com 1248812644 26467 89.139.112.64 (28 Jul 2009 20:24:04 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Tue, 28 Jul 2009 20:24:04 +0000 (UTC)
User-Agent: slrn/pre1.0.0-2 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2952

Ian Jackson wrote:
> On 20m, 100 miles is a bit close. You're unlikely to get reliable
> communication at less than 250 or 300 miles. Groundwave is even less
> than 40 - maybe only 5 miles.

I think you might be better off getting a CB. If only because when you need help, you are much more likely to find someone nearby with the ability to reach you or summon help.

If you want reliable communication over that terrain and distance, you need a satellite phone. Every else ranges from "will never work" to "probably will work most of the time", but not "will always work".

Of course the big question is why? Are you looking for help if you need it?

Are you just looking for a way "phone home"? Do you expect to have your
employer/customers call you for support?

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM

```
From -855419257161487142
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!
cyclone02.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf02.ams.highwinds-media.com!newsfe06.ams2.POSTED!7564ea0f!not-for-mail
Message-ID: <XGf+w3ROQ2bKFwo2@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100 to 500
     miles?
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
 <gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>
 <CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk> <slrnh6unej.jno.gsm@cable.mendelson.com>
Lines: 28
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.06-S (<XFSqWav7KPT2aPCjuBGoeAF4YR>)
NNTP-Posting-Host: 80.176.138.122
X-Complaints-To: abuse@demon.net
X-Trace: newsfe06.ams2 1248814099 80.176.138.122 (Tue, 28 Jul 2009 20:48:19 UTC)
NNTP-Posting-Date: Tue, 28 Jul 2009 20:48:19 UTC
Date: Tue, 28 Jul 2009 21:48:14 +0100
Xref: g2news2.google.com rec.radio.amateur.homebrew:2953
```

In message <slrnh6unej.jno.gsm@cable.mendelson.com>, Geoffrey S.
Mendelson <gsm@mendelson.com> writes

>Ian Jackson wrote:
>> On 20m, 100 miles is a bit close. You're unlikely to get reliable
>> communication at less than 250 or 300 miles. Groundwave is even less
>> than 40 - maybe only 5 miles.
>
>I think you might be better off getting a CB. If only because when you need
>help, you are much more likely to find someone nearby with the ability to
>reach you or summon help.
>
>If you want reliable communication over that terrain and distance, you
>need a satellite phone. Every else ranges from "will never work" to
>"probably will work most of the time", but not "will always work".
>
>Of course the big question is why? Are you looking for help if you need it?
>Are you just looking for a way "phone home"? Do you expect to have your

>employer/customers call you for support?
>

Agreed. Unless there are any hills in the way, legal 27MHz CB should get
you a reliable 5 to 10 miles and, in the USA, I believe is a lot more
popular than elsewhere, and you could well be within range of other CB
users. And you don't need to pass an exam to get a licence (or even have
a licence). However, especially for real emergencies, it would be unwise
to rely on any ad hoc forms of radio communication. A satellite phone
would seem to be the way to go.
--
Ian

```
From 8753071209260247362
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v23g2000pro.googlegroups.com!not-for-
mail
From: "acannell@wwc.com" <acannell@wwc.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100 to
     500  miles?
Date: Tue, 28 Jul 2009 14:16:56 -0700 (PDT)
Organization: http://groups.google.com
Lines: 24
Message-ID: <f07c20d1-6cee-4515-ab9c-2b67aa139f1e@v23g2000pro.googlegroups.com>
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
     <gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>
<CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk>
     <slrnh6unej.jno.gsm@cable.mendelson.com> <XGf+w3ROQ2bKFwo2@g3ohx.demon.co.uk>
NNTP-Posting-Host: 68.111.195.232
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1248815816 18684 127.0.0.1 (28 Jul 2009 21:16:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 28 Jul 2009 21:16:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v23g2000pro.googlegroups.com; posting-host=68.111.195.232;
     posting-account=b3sKJgkAAADV_Tu4zSfMEcdQE5hB47UG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1) ),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2954
```

Thank you for all your excellent and useful responses!

To clarify my purpose:

1- I've been waiting for an excuse to get into Ham radio. I'm very
interested in learning RF circuitry (Experimental Methods in RF Design

is enroute as we speak), and this is a perfect opportunity, because I actually need it! So Im up for getting a license.

2- The purpose of the radio is for emergency and for the cool factor of being able to talk to home from 100+ miles away in the desert and tell them about all the sand and rocks i see. Exciting for them!

3- The CB does sound better for emergency. So now, lets change the purpose of the ham radio to just "cool of taking to home 100+ miles away". And I will get a CB for emergency.

I had been leaning toward 20 meters since it has been described everywhere as the DX band of choice. Now I see that it may not work well so "close" as 100 miles. But wouldnt 80 meters have even more of a problem? I am still not clear on which band to use...maybe some more help please?

From 7914172350882333207
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
newshosting.com!novia!news-out.readnews.com!news-xxxfer.readnews.com!
news.misty.com!not-for-mail
From: "Geoffrey S. Mendelson" <gsm@mendelson.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100
 to 500 miles?
Date: Tue, 28 Jul 2009 21:29:05 +0000 (UTC)
Organization: MGT Consulting
Lines: 31
Message-ID: <slrnh6urbl.nev.gsm@cable.mendelson.com>
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
 <gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>
 <CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk>
 <slrnh6unej.jno.gsm@cable.mendelson.com>
 <XGf+w3ROQ2bKFwo2@g3ohx.demon.co.uk>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-139-112-64.bb.netvision.net.il
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: max.inside.misty.com 1248816545 9990 89.139.112.64 (28 Jul 2009 21:29:05 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Tue, 28 Jul 2009 21:29:05 +0000 (UTC)
User-Agent: slrn/pre1.0.0-2 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2955

Ian Jackson wrote:

> Agreed. Unless there are any hills in the way, legal 27MHz CB should get you a reliable 5 to 10 miles and, in the USA, I believe is a lot more popular than elsewhere, and you could well be within range of other CB users.

From what I have read it is very popular in the EU which has far less limitations on what you can do with it. There seems to be no practical limitation on equipment and power, I often see articles about people using 100 watt ham rigs, transmitting FM and packet data.

However, that's almost irrelevant, a 5 watt rig, even a 1970' handheld with channels 9,14 and 19 will do, a 40 channel ssb rig would almost be too much.

To keep it almost on topic, if you were to buy a long whip antenna, fold it over, (run it horizontaly), and connect it to an autotuner, you could use it for CB and NVIS ham communication.

NVIS is an interesting mode of communication, it uses vertical skywaves to get wider range local communication from HF radio.

It may all be a moot point anyway. If you join a club they will probably tell you what equipment you need. They probably standardized on something readily available without a license such as CB's, FRS or GMRS, or possibly if they thought no one would notice VHF marine radios (which are illegal to use on land, but required for almost anything that floats).

Geoff.

--

Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM

```
From -7091208656737304300
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news-
in-02.newsfeed.easynews.com!easynews.com!easynews!news-out.readnews.com!news-
xxxfer.readnews.com!news.misty.com!not-for-mail
From: "Geoffrey S. Mendelson" <gsm@mendelson.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100
 to  500  miles?
Date: Tue, 28 Jul 2009 21:34:04 +0000 (UTC)
Organization: MGT Consulting
Lines: 27
Message-ID: <slrnh6urhc.oau.gsm@cable.mendelson.com>
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
 <gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>
 <CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk>
 <slrnh6unej.jno.gsm@cable.mendelson.com>
 <XGf+w3ROQ2bKFwo2@g3ohx.demon.co.uk>
 <f07c20d1-6cee-4515-ab9c-2b67aa139f1e@v23g2000pro.googlegroups.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-139-112-64.bb.netvision.net.il
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: max.inside.misty.com 1248816844 11491 89.139.112.64 (28 Jul 2009 21:34:04
GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Tue, 28 Jul 2009 21:34:04 +0000 (UTC)
User-Agent: slrn/pre1.0.0-2 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2956
```

acannell@wwc.com wrote:

> 2- The purpose of the radio is for emergency and for the cool factor
> of being able to talk to home from 100+ miles away in the desert and
> tell them about all the sand and rocks i see. Exciting for them!

Ok, so that needs a general class or better license at both end. Do you
have a family member interested too?

> 3- The CB does sound better for emergency. So now, lets change the
> purpose of the ham radio to just "cool of taking to home 100+ miles
> away". And I will get a CB for emergency.
>
> I had been leaning toward 20 meters since it has been described
> everywhere as the DX band of choice. Now I see that it may not work
> well so "close" as 100 miles. But wouldnt 80 meters have even more of
> a problem? I am still not clear on which band to use...maybe some more
> help please?

Look up NVIS, I described it in a post that crossed yours.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM

```
From -5564152779635574925
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news3
From: Bill M <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100
```

to 500 miles?
Date: Tue, 28 Jul 2009 17:51:39 -0500
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 40
Message-ID: <h4nvdt04dj@news3.newsguy.com>
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
<gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>
<CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk> <slrnh6unej.jno.gsm@cable.mendelson.com>
<XGf+w3ROQ2bKFwo2@g3ohx.demon.co.uk> <f07c20d1-6cee-4515-ab9c-2b67aa139f1e@v23g2000pro.googlegroups.com>
NNTP-Posting-Host: p24d1bfbfff00000073b1290e905b03f4f4edcc2ec7af5129.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
In-Reply-To: <f07c20d1-6cee-4515-ab9c-2b67aa139f1e@v23g2000pro.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2957

acannell@wwc.com wrote:
> Thank you for all your excellent and useful responses!
>
> To clarify my purpose:
>
> 1- I've been waiting for an excuse to get into Ham radio. I'm very
> interested in learning RF circuitry (Experimental Methods in RF Design
> is enroute as we speak), and this is a perfect opportunity, because I
> actually need it! So Im up for getting a license.
>
> 2- The purpose of the radio is for emergency and for the cool factor
> of being able to talk to home from 100+ miles away in the desert and
> tell them about all the sand and rocks i see. Exciting for them!
>
> 3- The CB does sound better for emergency. So now, lets change the
> purpose of the ham radio to just "cool of taking to home 100+ miles
> away". And I will get a CB for emergency.
>
> I had been leaning toward 20 meters since it has been described
> everywhere as the DX band of choice. Now I see that it may not work
> well so "close" as 100 miles. But wouldnt 80 meters have even more of
> a problem? I am still not clear on which band to use...maybe some more
> help please?
>
>

I guess a cellphone is out of range? You're not going to have reliable
"100+ mile coverage" with a CB or even with ham radio on a simple "push
button to talk" basis unless both parties are licenced and have some
knowledge about how radio works.
You need one of those 'illegal' phones like they sell in Brasil :)

Sat phones do this type of thing, not inexpensive though. Some of those
Brasilian phones illegally utilise military frequencies via US-DOD
satellites!

May I recommend a digital camera, 99 cent spiral bound notebook and a
pencil as the latest and least inexpensive technological breakthrough?

-Bill

From 8526637016181931273
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!feed-me.highwinds-media.com!cyclone02.ams2.highwinds-media.com!news.highwinds-media.com!npeersf01.ams.highwinds-media.com!newsfe06.ams2.POSTED!7564ea0f!not-for-mail
Message-ID: <P6Q4PMZxG4bKFwIF@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100 to 500 miles?
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
<gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>
<CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk> <slrnh6unej.jno.gsm@cable.mendelson.com>
<XGf+w3ROQ2bKFwo2@g3ohx.demon.co.uk> <slrnh6urbl.nev.gsm@cable.mendelson.com>
Lines: 60
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.06-S (<XdXqW67$KPDn6PCj$ROoeAltD+>)
NNTP-Posting-Host: 80.176.138.122
X-Complaints-To: abuse@demon.net
X-Trace: newsfe06.ams2 1248821685 80.176.138.122 (Tue, 28 Jul 2009 22:54:45 UTC)
NNTP-Posting-Date: Tue, 28 Jul 2009 22:54:45 UTC
Date: Tue, 28 Jul 2009 23:54:41 +0100
Xref: g2news2.google.com rec.radio.amateur.homebrew:2958

In message <slrnh6urbl.nev.gsm@cable.mendelson.com>, Geoffrey S.
Mendelson <gsm@mendelson.com> writes
>Ian Jackson wrote:
>> Agreed. Unless there are any hills in the way, legal 27MHz CB should get
>> you a reliable 5 to 10 miles and, in the USA, I believe is a lot more
>> popular than elsewhere, and you could well be within range of other CB
>> users.
>
>From what I have read it is very popular in the EU which has far less
>limitations on what you can do with it. There seems to be no practical
>limitation on equipment and power, I often see articles about people
>using 100 watt ham rigs, transmitting FM and packet data.
>
Not legally! In the UK, CB is limited to 4W of FM. Most other European
countries are very similar, although some do also allow SSB (and maybe
even AM?).

>However, that's almost irrelevant, a 5 watt rig, even a 1970' handheld
>with channels 9,14 and 19 will do, a 40 channel ssb rig would almost be
>too much.
>
A handheld on a whip antenna might get you 20 miles but, more likely, 2.

>To keep it almost on topic, if you were to buy a long whip antenna, fold it
>over, (run it horizontaly), and connect it to an autotuner, you could use it
>for CB and NVIS ham communication.
>
>NVIS is an interesting mode of communication, it uses vertical skywaves to
>get wider range local communication from HF radio.
>
I don't think that you get much NVIS on the higher HF amateur bands.
However, you certainly do on 80m, where (at least in the UK) most
horizontal antennas are rarely much higher than 30' or 40'. The RF goes
straight up, and (if there's anything up there to reflect it back)
straight down again. In summer daytime, the RF tends to get absorbed by
the low-level D-layer (rather than reflected), so ranges are short, and
signal levels poor. This disperses at night, and the much-higher F-layer
allows a longer-range 'bounce' - even for signals with high-angle
radiation. Most really long distance stuff is via vertical antennas,
which are notoriously poor for relatively short-distance working (beyond
groundwave range). However, above around 5 or 6MHz, high-angle signals
tend to go straight through the ionosphere, and are lost for ever.

>It may all be a moot point anyway. If you join a club they will probably tell
>you what equipment you need. They probably standardized on something readily
>available without a license such as CB's, FRS or GMRS, or possibly if they
>thought no one would notice VHF marine radios (which are illegal to use
>on land, but required for almost anything that floats).
>
I don't want to be a 'misery-guts', but I would be a bit circumspect
about the idea of 'getting into amateur radio' because you want to be
able talk to the folks back home when you are on holiday. If you have no
previous experience of the characteristics of the amateur bands,
equipment, antennas etc, it's highly unlikely that you will be very
successful. To avoid disappointment, it might be best to stick to
tried-and-tested technology. On the other hand, why not simply forget
about the folks at home, enjoy your holiday, and take up amateur radio
when you get back!
--
Ian

From 8006288428394505374
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail

NNTP-Posting-Date: Tue, 28 Jul 2009 18:52:10 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: best setup for vehicle to base communication seperated by 100
 to
     500 miles?
Newsgroups: rec.radio.amateur.homebrew
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
     <gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>
     <CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk>
     <slrnh6unej.jno.gsm@cable.mendelson.com>
     <XGf+w3ROQ2bKFwo2@g3ohx.demon.co.uk>
     <f07c20d1-6cee-4515-ab9c-2b67aa139f1e@v23g2000pro.googlegroups.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <gIadnQr-p7m3EvLXnZ2dnUVZ_hxi4p2d@web-ster.com>
Date: Tue, 28 Jul 2009 18:52:10 -0500
Lines: 47
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-FONjzcjjXVsnbK1UE+M+JAZyBTmdEBmJwpO2CEhPsKmA1P/
zUMjvaLXUVnvNtrlO8Y7/0rJX34xqoXu!qQuKaypWBqUw8Wpclg+dEm2v5vZdXOJDbT8MLCqw3G8L0x/
bbAfjiy3FxmvMLLCPX4wf0HrJkcVR!DItxyh6XBxJJNt4=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 3556
Xref: g2news2.google.com rec.radio.amateur.homebrew:2959

On Tue, 28 Jul 2009 14:16:56 -0700, acannell@wwc.com wrote:

> Thank you for all your excellent and useful responses!
>
> To clarify my purpose:
>
> 1- I've been waiting for an excuse to get into Ham radio. I'm very
> interested in learning RF circuitry (Experimental Methods in RF Design
> is enroute as we speak), and this is a perfect opportunity, because I
> actually need it! So Im up for getting a license.

Go for it, then! You'll find that building stuff is definitely something that's only worth it if you have fun -- the days of building stuff on the cheap from dead TVs are long gone.

> 2- The purpose of the radio is for emergency and for the cool factor of
> being able to talk to home from 100+ miles away in the desert and tell
> them about all the sand and rocks i see. Exciting for them!

Hey! What about the rest of the world! You can talk to them, too.

> 3- The CB does sound better for emergency. So now, lets change the
> purpose of the ham radio to just "cool of taking to home 100+ miles

> away". And I will get a CB for emergency.
>
> I had been leaning toward 20 meters since it has been described
> everywhere as the DX band of choice. Now I see that it may not work well
> so "close" as 100 miles. But wouldnt 80 meters have even more of a
> problem? I am still not clear on which band to use...maybe some more
> help please?

Nearly all modern HF rigs cover 160 to 10 meters, so what you operate on out there is pretty much limited by your antenna. What band is good is mostly determined by the state of the ionosphere, which changes with the day, time of day, day of the year, and the state of the sun. So I'd recommend that you get or make an antenna that's good on a lot of bands, and find what works best for you.

The only real caveat to that is that longer wavelengths and small antennas don't go well together, so the system tends to be much lossier for 40m and longer with your average car-mount antenna. That doesn't mean it can't work, it just means that you have to take more care with the antenna, or plan on packing a BIG antenna that you can put up when you stop.

--
www.wescottdesign.com

```
From 8480074488139417627
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!u38g2000pro.googlegroups.com!not-for-
mail
From: "acannell@wwc.com" <acannell@wwc.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100 to
     500  miles?
Date: Tue, 28 Jul 2009 19:48:40 -0700 (PDT)
Organization: http://groups.google.com
Lines: 80
Message-ID: <784e660a-1708-4bc1-bc3c-69ddd749f68c@u38g2000pro.googlegroups.com>
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
     <gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>
<CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk>
     <slrnh6unej.jno.gsm@cable.mendelson.com> <XGf+w3ROQ2bKFwo2@g3ohx.demon.co.uk>
     <slrnh6urbl.nev.gsm@cable.mendelson.com> <P6Q4PMZxG4bKFwIF@g3ohx.demon.co.uk>
NNTP-Posting-Host: 68.111.195.232
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1248835721 17486 127.0.0.1 (29 Jul 2009 02:48:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 29 Jul 2009 02:48:41 +0000 (UTC)
```

```
Complaints-To: groups-abuse@google.com
Injection-Info: u38g2000pro.googlegroups.com; posting-host=68.111.195.232;
     posting-account=b3sKJgkAAADV_Tu4zSfMEcdQE5hB47UG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1) ),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2960

On Jul 28, 3:54=A0pm, Ian Jackson
<ianREMOVETHISjack...@g3ohx.demon.co.uk> wrote:
> In message <slrnh6urbl.nev....@cable.mendelson.com>, Geoffrey S.
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is anyone supposed to learn anything if they only do what they have
knowledge and experience in? This is what college does to people,
makes them extremely wary of learning things on their own or seeing
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From -5331328552508734321
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 29 Jul 2009 00:44:59 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: best setup for vehicle to base communication seperated by 100
 to
     500 miles?
Newsgroups: rec.radio.amateur.homebrew
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
     <gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>

```
     <CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk>
     <slrnh6unej.jno.gsm@cable.mendelson.com>
     <XGf+w3ROQ2bKFwo2@g3ohx.demon.co.uk>
     <slrnh6urbl.nev.gsm@cable.mendelson.com>
     <P6Q4PMZxG4bKFwIF@g3ohx.demon.co.uk>
     <784e660a-1708-4bc1-bc3c-69ddd749f68c@u38g2000pro.googlegroups.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <gIadnQX-p7lGfPLXnZ2dnUVZ_hxi4p2d@web-ster.com>
Date: Wed, 29 Jul 2009 00:44:59 -0500
Lines: 82
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
Tv6VVLYgkFhAQAZmCtQ1BwG5ykpF7in0RdFSB0WV832pxl2UsKwyJNDV+LXnCngDLKkW1/9xytgRvdy!
D8IEiIvD6slYWYXFg7HAz0NV/Bhy2vep/meL36NfKG63Lll0KgQrZhUiSIE7azKFMkiOa6gnKIXq!
ktWARVe4cwbdnOM=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 5440
Xref: g2news2.google.com rec.radio.amateur.homebrew:2961

On Tue, 28 Jul 2009 19:48:40 -0700, acannell@wwc.com wrote:

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Hey, thanks!

:-)

--

```
www.wescottdesign.com


From -5172022240595746708
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!feed-
me.highwinds-media.com!cyclone03.ams2.highwinds-media.com!news.highwinds-
media.com!npeersf02.ams.highwinds-media.com!newsfe10.ams2.POSTED!7564ea0f!not-for-
mail
Message-ID: <VL9uTrCGl$bKFwZo@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100 to
     500  miles?
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
 <gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>
 <CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk> <slrnh6unej.jno.gsm@cable.mendelson.com>
 <XGf+w3ROQ2bKFwo2@g3ohx.demon.co.uk> <slrnh6urbl.nev.gsm@cable.mendelson.com>
 <P6Q4PMZxG4bKFwIF@g3ohx.demon.co.uk>
 <784e660a-1708-4bc1-bc3c-69ddd749f68c@u38g2000pro.googlegroups.com>
 <gIadnQX-p7lGfPLXnZ2dnUVZ_hxi4p2d@web-ster.com>
Lines: 102
MIME-Version: 1.0
Content-Type: text/plain;charset=iso-8859-1;format=flowed
Content-Transfer-Encoding: 8bit
User-Agent: Turnpike/6.06-S (<XdRqW6rfKPDm4PCjnROoeAl1bN>)
NNTP-Posting-Host: 80.176.138.122
X-Complaints-To: abuse@demon.net
X-Trace: newsfe10.ams2 1248852299 80.176.138.122 (Wed, 29 Jul 2009 07:24:59 UTC)
NNTP-Posting-Date: Wed, 29 Jul 2009 07:24:59 UTC
Date: Wed, 29 Jul 2009 08:24:54 +0100
Xref: g2news2.google.com rec.radio.amateur.homebrew:2962

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>So you're explaining why I shouldn't go to college?
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>Hey, thanks!
>

I think that the OP is misinterpreting my comments! Trying to keep regular communication via HF radio - and especially HF amateur radio - can be very disappointing, especially at times like now, when there are virtually no sunspots to help propagation go with 'a bit of a zing' (sorry if I'm being too technical!).

It is indeed great fun to try and keep regular communication schedules, but I wouldn't take up amateur radio just to be able to talk to family and friends while on holiday - especially if you are going to set out on your holiday before you have had time to gain some experience about which bands (and which frequencies in the bands) to use, which times of day are best, which type of antenna you need to use etc.

There's a bit more to amateur radio than buying an off-the-shelf 100W multiband transceiver and an antenna (or antennas), connecting everything together, powering up and pressing the mic PTT button. But I'm sure the OP is already fully aware of this. I'm just a bit concerned that his planned debut into amateur radio might prove a little disappointing, and deter him from progressing further in the noble art. I'm certainly not trying to dissuade him.
--
Ian

From 4390377826259026802
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 29 Jul 2009 05:20:56 -0500
Date: Wed, 29 Jul 2009 10:20:55 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.22 (Windows/20090605)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100 to 500 miles?
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com> <gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com> <CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk> <slrnh6unej.jno.gsm@cable.mendelson.com>

<XGf+w3ROQ2bKFwo2@g3ohx.demon.co.uk> <f07c20d1-6cee-4515-ab9c-2b67aa139f1e@v23g2000pro.googlegroups.com>
In-Reply-To: <f07c20d1-6cee-4515-ab9c-2b67aa139f1e@v23g2000pro.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <O6Sdnfo2k9sVv-3XnZ2dnUVZ_oGdnZ2d@bright.net>
Lines: 34
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NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-AJ8bu+p+WzTTxxdKJE4LFoTaPjPKgmNABzQOOkIS4hR1GdT6QAcJ+SY8VDVii1irXxOMZgHeuivkuPA!b/SHJjW03PfbBDi+qEHbxK+KUONQdwnBsDj+Q/V1QS7c0B3KurY+bWC0kl0BIwON48KaDAGSTnSx!Dw1Bc7WZ6A==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 3005
Xref: g2news2.google.com rec.radio.amateur.homebrew:2963

acannell@wwc.com wrote:
> Thank you for all your excellent and useful responses!
>
> To clarify my purpose:
>
> 1- I've been waiting for an excuse to get into Ham radio. I'm very
> interested in learning RF circuitry (Experimental Methods in RF Design
> is enroute as we speak), and this is a perfect opportunity, because I
> actually need it! So Im up for getting a license.
>
> 2- The purpose of the radio is for emergency and for the cool factor
> of being able to talk to home from 100+ miles away in the desert and
> tell them about all the sand and rocks i see. Exciting for them!
>
> 3- The CB does sound better for emergency. So now, lets change the
> purpose of the ham radio to just "cool of taking to home 100+ miles
> away". And I will get a CB for emergency.
>
> I had been leaning toward 20 meters since it has been described
> everywhere as the DX band of choice. Now I see that it may not work
> well so "close" as 100 miles. But wouldnt 80 meters have even more of
> a problem? I am still not clear on which band to use...maybe some more
> help please?
>
>

Get a modern solid state radio that covers all HF ham bands and an
antenna such as the "Outbacker" or "Screwdriver" so that you have one
mobile antenna capable of being tuned to any HF band. I would say that
40 meters would be one of the better choices during the day but with the
multiband antenna, you try the different bands until you find the one
that works at the time you try calling.

Scott

N0EDV

```
From -1600287082308229770
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
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     <gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>
     <CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk>
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     <slrnh6urbl.nev.gsm@cable.mendelson.com>
     <P6Q4PMZxG4bKFwIF@g3ohx.demon.co.uk>
     <784e660a-1708-4bc1-bc3c-69ddd749f68c@u38g2000pro.googlegroups.com>
     <gIadnQX-p7lGfPLXnZ2dnUVZ_hxi4p2d@web-ster.com>
     <VL9uTrCGl$bKFwZo@g3ohx.demon.co.uk>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <drWdnWzFWLC2wu3XnZ2dnUVZ_jpi4p2d@web-ster.com>
Date: Wed, 29 Jul 2009 09:39:39 -0500
Lines: 123
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
hMmTRegnIOpilM+GRB43aX9Ytro1K4g7vxuVlyBDNOB0Dc8z1jArMAeZlKGnDyjUHGb8ToYSEA7CFyS!
7U4Y3dCHn9sECGAMppN/E0hOdrLYnbd01Bruw8kJa8pr4BCDb7n8Att4Dm2ucFXuHk6SkatkEcyz!nNae/
WaKTkREecU=
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X-Postfilter: 1.3.39
X-Original-Bytes: 7928
Xref: g2news2.google.com rec.radio.amateur.homebrew:2964

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>>>> equipment, antennas etc, it's highly unlikely that you will be very
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> virtually no sunspots to help propagation go with 'a bit of a zing'
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> There's a bit more to amateur radio than buying an off-the-shelf 100W
> multiband transceiver and an antenna (or antennas), connecting
> everything together, powering up and pressing the mic PTT button. But
> I'm sure the OP is already fully aware of this. I'm just a bit concerned
> that his planned debut into amateur radio might prove a little
> disappointing, and deter him from progressing further in the noble art.
> I'm certainly not trying to dissuade him.

Nah, he already said he's just using the "talk to home" thing as an
excuse to get him going, and he's already agreed to jettison it and get
into ham radio anyway (Good for you 'acannell'!).

And while there's more to it than connecting the bits together and
pushing the PTT, that's a good start.

(OP: Getting into a club is best; if you can't do that then at least get
a copy of the ARRL Operations Manual and read it before you go stomping
all over the airwaves. You'll have "newbie" written all over you no
matter what -- you want to aim for it to be "polite newbie" so people
will be nice.)

(And expect it to be a bit like newsgroups -- there are some read losers
out there and a few of them have call signs and HF rigs. Like any other
human activity there will be some hazing to politely ignore.)

--
www.wescottdesign.com

From 317829468460971151
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 29 Jul 2009 10:06:00 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
<gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>
<CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk> <slrnh6unej.jno.gsm@cable.mendelson.com>
<XGf+w3ROQ2bKFwo2@g3ohx.demon.co.uk> <slrnh6urbl.nev.gsm@cable.mendelson.com>
<P6Q4PMZxG4bKFwIF@g3ohx.demon.co.uk> <784e660a-1708-4bc1-
bc3c-69ddd749f68c@u38g2000pro.googlegroups.com>
Subject: Re: best setup for vehicle to base communication seperated by 100 to 500
miles?
Date: Wed, 29 Jul 2009 11:07:45 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <AoadnZiYIqnF-O3XnZ2dnUVZ_hmdnZ2d@earthlink.com>
Lines: 35
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.225.35.56
X-Trace: sv3-KHuvUdiGojKMFT/
mqPIk1x0nVpXWugidJjhD7V9gc53rNOI63EsFMeDTXlwANWMEnFS1EKW214HdLaS!
Rqwl0fbJNsQCnnuAOsracqUjBvp16qtgOJJ8Ox6vTk698j+RmjzfGofkoiFE9PDRF3YU7tbDrDsc!
h7ZRAYyxwMpy+CIuDbQAusdsNdVMko2Prmj4gw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 3115
Xref: g2news2.google.com rec.radio.amateur.homebrew:2965

<acannell@wwc.com> wrote in message news:784e660a-1708-4bc1-bc3c-
>Is it just me or is there ALWAYS someone on this group >explaining why
somebody else should not try something or do something? How on earth

is anyone supposed to learn anything if they only do what they have
knowledge and experience in? This is what college does to people,
makes them extremely wary of learning things on their own <or seeing
>other people attempt to do so.

It may have been the way you asked the question. If you had just asked what would be a good way of getting into ham radio and what would it take to talk around 100 to 200 miles for fun the response may have been differant. Your first statements made it seem like you wanted reliable communications for emergencies.

Anyway get a license and have fun. That seems to be your main objective.

If you have not checked into it, the license should be easy for someone that has an electronic background and any RF experiance at all. Just memorize the exect questions and answers. You can find them many places on the internet. You can go to arrl.org for one. Then go to qrz.com and take the practice test to see how well you are doing. You may even want to go there first and see how well you do without any perperation. Having been a ham for over 35 years and into electrical and electronic work, I can run through a test in less than 15 minuits and get around a 85% or higher. That is not even looking at the study questions in many years. I think a 70% is passing.

From 4989659174874504293
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!v37g2000prg.googlegroups.com!not-for-mail
From: "acannell@wwc.com" <acannell@wwc.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100 to
     500 miles?
Date: Wed, 29 Jul 2009 08:10:01 -0700 (PDT)
Organization: http://groups.google.com
Lines: 131
Message-ID: <7a803871-590a-4cae-b59a-deb355fcc9d7@v37g2000prg.googlegroups.com>
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
     <gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>
<CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk>
     <slrnh6unej.jno.gsm@cable.mendelson.com> <XGf+w3ROQ2bKFwo2@g3ohx.demon.co.uk>
     <slrnh6urbl.nev.gsm@cable.mendelson.com> <P6Q4PMZxG4bKFwIF@g3ohx.demon.co.uk>

```
     <784e660a-1708-4bc1-bc3c-69ddd749f68c@u38g2000pro.googlegroups.com>
     <gIadnQX-p7lGfPLXnZ2dnUVZ_hxi4p2d@web-ster.com>
<VL9uTrCGl$bKFwZo@g3ohx.demon.co.uk>
NNTP-Posting-Host: 68.111.195.232
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1248880201 16577 127.0.0.1 (29 Jul 2009 15:10:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 29 Jul 2009 15:10:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v37g2000prg.googlegroups.com; posting-host=68.111.195.232;
     posting-account=b3sKJgkAAADV_Tu4zSfMEcdQE5hB47UG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1) ),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2966

On Jul 29, 12:24=A0am, Ian Jackson
<ianREMOVETHISjack...@g3ohx.demon.co.uk> wrote:
> In message <gIadnQX-p7lGfPLXnZ2dnUVZ_hxi4...@web-ster.com>, Tim Wescott
> <t...@seemywebsite.com> writes
>
>
>
> >On Tue, 28 Jul 2009 19:48:40 -0700, acann...@wwc.com wrote:
>
> >> On Jul 28, 3:54=A0pm, Ian Jackson
> >> <ianREMOVETHISjack...@g3ohx.demon.co.uk> wrote:
> >>> In message <slrnh6urbl.nev....@cable.mendelson.com>, Geoffrey S.
> >>> Mendelson <g...@mendelson.com> writes>Ian Jackson wrote:
> >>> >> Agreed. Unless there are any hills in the way, legal 27MHz CB shou=
ld
> >>> >> get you a reliable 5 to 10 miles and, in the USA, I believe is a l=
ot
> >>> >> more popular than elsewhere, and you could well be within range of
> >>> >> other CB users.
>
> >>> >From what I have read it is very popular in the EU which has far les=
s
> >>> >limitations on what you can do with it. There seems to be no practic=
al
> >>> >limitation on equipment and power, I often see articles about people
> >>> >using 100 watt ham rigs, transmitting FM and packet data.
>
> >>> Not legally! In the UK, CB is limited to 4W of FM. Most other Europea=
n
> >>> countries are very similar, although some do also allow SSB (and mayb=
e
> >>> even AM?).
>
> >>> >However, that's almost irrelevant, a 5 watt rig, even a 1970' handhe=
ld
```

```
> >>> >with channels 9,14 and 19 will do, a 40 channel ssb rig would almost
> >>> >be too much.
>
> >>> A handheld on a whip antenna might get you 20 miles but, more likely,
> >>> 2.
>
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> disappointing, and deter him from progressing further in the noble art.
> I'm certainly not trying to dissuade him.
> --
> Ian- Hide quoted text -
>
> - Show quoted text -

Ahhh...I see now. Understood! ;)
```

```
From 7357285903256281183
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.194.250.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!
```

```
news.misty.com!not-for-mail
From: "Geoffrey S. Mendelson" <gsm@mendelson.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100
 to 500  miles?
Date: Wed, 29 Jul 2009 16:39:05 +0000 (UTC)
Organization: MGT Consulting
Lines: 40
Message-ID: <slrnh70uoh.2d4.gsm@cable.mendelson.com>
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
 <gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>
 <CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk>
 <slrnh6unej.jno.gsm@cable.mendelson.com>
 <XGf+w3ROQ2bKFwo2@g3ohx.demon.co.uk>
 <slrnh6urbl.nev.gsm@cable.mendelson.com>
 <P6Q4PMZxG4bKFwIF@g3ohx.demon.co.uk>
 <784e660a-1708-4bc1-bc3c-69ddd749f68c@u38g2000pro.googlegroups.com>
 <AoadnZiYIqnF-O3XnZ2dnUVZ_hmdnZ2d@earthlink.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-139-112-64.bb.netvision.net.il
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: max.inside.misty.com 1248885545 32350 89.139.112.64 (29 Jul 2009 16:39:05
GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Wed, 29 Jul 2009 16:39:05 +0000 (UTC)
User-Agent: slrn/pre1.0.0-2 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2967
```

Ralph Mowery wrote:

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Ralph, a lot has changed in the last 35 years. The tests are not designed to make sure that everyone who passes could build a transceiver from an old AM radio, or recognize the design of one.

They are now based on the concept that many hams will start out with a store bought rig and work up from that. In order to pass, you have to show enough understanding of electricity, electronics and RF that you don't endanger yourself, anyone else or cause any damage to the equipment.

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BTW, have you taken the test recently, over the years it has included new
things that hams did not have to know or care about. When I studied for
the extra exam (1996)*, it included tv stuff such as fields and frames.
Now that NTSC is dead, I wonder if it is still there and if it is, how
long it will be.

Geoff.

* just to be compelete, I never had time to take the 20wpm test before I
moved here, so I have an advanced class license. I live in one of the few
countries in the world that the VEC's were asked NOT to give tests in.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM

From 1574286970548113826
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 29 Jul 2009 12:35:46 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
<gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>
<CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk> <slrnh6unej.jno.gsm@cable.mendelson.com>
<XGf+w3ROQ2bKFwo2@g3ohx.demon.co.uk> <slrnh6urbl.nev.gsm@cable.mendelson.com>
<P6Q4PMZxG4bKFwIF@g3ohx.demon.co.uk> <784e660a-1708-4bc1-
bc3c-69ddd749f68c@u38g2000pro.googlegroups.com> <AoadnZiYIqnF-
O3XnZ2dnUVZ_hmdnZ2d@earthlink.com> <slrnh70uoh.2d4.gsm@cable.mendelson.com>
Subject: Re: best setup for vehicle to base communication seperated by 100 to 500
miles?
Date: Wed, 29 Jul 2009 13:37:31 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <boidncYZ1-DvFe3XnZ2dnUVZ_qSdnZ2d@earthlink.com>
Lines: 80
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.225.35.56
X-Trace: sv3-
Rf4WH+5Q4yp+Tg5JNwLxwOV0aUfS4eeksesijCtln1zDURHeS92562wJuAD61zh+d0RH4H27d0ac0Mi!
C+zVQ5g6nRsTfdmyu/kwuMZoG/ID+27+MY1NTYDxs5eLh4RZAD3/ZjqVfRCeq9fZZ0MBJnt4BU5k!
gWw8mTWaHDl8xsMySU13ngE6u1HQQI3cnhxLGQ==

X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 5285
Xref: g2news2.google.com rec.radio.amateur.homebrew:2968

"Geoffrey S. Mendelson" <gsm@mendelson.com> wrote in message
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> --
> Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM

I have taken the practice tests on qrz.com several times just to see how
well I can do. That is without doing any studying for them. Took it on
qrz.com a few weeks ago after our club had a hamfest and gave some tests.
Just wanted to refresh my memory of the questions.

I am a VEC with the local club. Have been from the time I passed the Extra. Forgot the exect year, but it was about a year before the FCC totally eliminated the 20 wpm code. Have to admitt that if it was not a choice question test that I could not have done the 20 wpm.

The test as it is now is made to get more hams on the air. I think it is good.
Should probably be more on the rules and operating proceduers, sort of like a drivers license test. There are very few new hams that can work on the modern rigs. I can handle the older tube and transisitor rigs, but do not even try to look at the latest rigs.

HOwever the test is a joke. Years ago my wife passed the the Technician test and I doubt she could plug in a rig and hook up the antenna.. Around 1972 I passed the first class phone test. Only 22 years old and had never seen a TV or comercial radio station transmitter, but that licened me to work on them. Never did get into the radio or tv field like I thought I would like to. Did not pay as much as the other jobs I had over the years.

NTSC is dead for comercial use in the usa, but probably will be used in the ham bands for a long time. Just as RTTY is. I have an old modle 19 set for rtty and it is still working. Must be around 50 years old or more by now. You can probably count the number of comercial rtty stations still on the air with one hand now.
Packet was hot for a few years, but I think it is almost gone except for a few DX clusters and the aprs system.
I think there will be some hams on almost all modes that have been used.

73 de KU4PT

From -1102165960644760337
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
Subject: Re: best setup for vehicle to base communication seperated by 100 to 500 miles?
Lines: 24
MIME-Version: 1.0

```
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <Jl2cm.1587$646.1047@nwrddc01.gnilink.net>
Date: Wed, 29 Jul 2009 20:32:41 GMT
NNTP-Posting-Host: 96.229.49.85
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1248899561 96.229.49.85 (Wed, 29 Jul 2009 16:32:41
EDT)
NNTP-Posting-Date: Wed, 29 Jul 2009 16:32:41 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2969

<acannell@wwc.com> wrote in message
news:e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com...
> im an EE, but have never gotten into ham radio. Now, I have a reason!
> Im going off roading in the california desert, and I'd like to be able
> to communicate back home in San Diego. What band and equipment would
> be the best (for both base and mobile) in order to communicate
> reliably during the day? Or is this unreasonable?

www.winsystem.org

Click on the link on the right that shows Site info/plots and see if your
area is covered.  Requires Tech class license or above.  May help in areas
not covered by cell phone.

HF mobile (requires General class or above) will work in areas not covered
by any other infrastructure depending on time of day and frequency
selection, which can be a problem because of the limitation of a
pre-determined contact schedule.  In any case, you should be able to talk to
somebody, somewhere who can get to a phone or e-mail.  The last resort would
be Sat Phone for use anytime, anywhere you can see the sky.

CB has mostly limited range.  You might get lucky if you are close enough to
a highway or town, but forget about 100-500 miles.




From 1115770176114939161
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
```

Newsgroups: rec.radio.amateur.homebrew
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com> <gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com> <CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk> <slrnh6unej.jno.gsm@cable.mendelson.com> <XGf+w3ROQ2bKFwo2@g3ohx.demon.co.uk> <f07c20d1-6cee-4515-ab9c-2b67aa139f1e@v23g2000pro.googlegroups.com>
Subject: Re: best setup for vehicle to base communication seperated by 100 to 500 miles?
Lines: 34
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <Qu2cm.1588$646.1528@nwrddc01.gnilink.net>
Date: Wed, 29 Jul 2009 20:42:24 GMT
NNTP-Posting-Host: 96.229.49.85
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1248900144 96.229.49.85 (Wed, 29 Jul 2009 16:42:24 EDT)
NNTP-Posting-Date: Wed, 29 Jul 2009 16:42:24 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2970

40 meters might be better. 20m if conditions permit. 80m at night but is more difficult for mobile ops. Your choice of frequencies depends on time of day, seasonal and subject to the ever changing ionosphere. Typically what frequency works at a given time of day will work the same time the next day but maybe not. Some study and experience is required.

<acannell@wwc.com> wrote in message news:f07c20d1-6cee-4515-ab9c-2b67aa139f1e@v23g2000pro.googlegroups.com...
> Thank you for all your excellent and useful responses!
>
> To clarify my purpose:
>
> 1- I've been waiting for an excuse to get into Ham radio. I'm very
> interested in learning RF circuitry (Experimental Methods in RF Design
> is enroute as we speak), and this is a perfect opportunity, because I
> actually need it! So Im up for getting a license.
>
> 2- The purpose of the radio is for emergency and for the cool factor
> of being able to talk to home from 100+ miles away in the desert and
> tell them about all the sand and rocks i see. Exciting for them!
>
> 3- The CB does sound better for emergency. So now, lets change the
> purpose of the ham radio to just "cool of taking to home 100+ miles
> away". And I will get a CB for emergency.
>
> I had been leaning toward 20 meters since it has been described

> everywhere as the DX band of choice. Now I see that it may not work
> well so "close" as 100 miles. But wouldnt 80 meters have even more of
> a problem? I am still not clear on which band to use...maybe some more
> help please?
>
>

From 6741694084151959082
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 29 Jul 2009 21:25:55 -0500
Date: Thu, 30 Jul 2009 02:25:55 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.22 (Windows/20090605)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100
 to 500 miles?
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
<Jl2cm.1587$646.1047@nwrddc01.gnilink.net>
In-Reply-To: <Jl2cm.1587$646.1047@nwrddc01.gnilink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <c4-dnXrSLZ0umezXnZ2dnUVZ_vxi4p2d@bright.net>
Lines: 8
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-t6iY6uG90SNHXGJQFd0/P5Itgqu/
Q1fByXfGijDSDYeH7i3PG4thK7tS+bPLVb9LXIJMAuEc89EwCsj!j3utWgzOb/
6rzr9m2IMydOfBx8BHMpa4YYtAvixH75g7HWzTItR1Eux3lfO7i8rNfhknDx8/sotM!Dt4CwYLzMA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1472
Xref: g2news2.google.com rec.radio.amateur.homebrew:2971

JB wrote:

>
> CB has mostly limited range. You might get lucky if you are close enough to
> a highway or town, but forget about 100-500 miles.
>

Unless you buy one of those illegal amps on eBay ;)

```
From 1047447208313454886
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-out.readnews.com!news-
xxxfer.readnews.com!news.misty.com!not-for-mail
From: "Geoffrey S. Mendelson" <gsm@mendelson.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100
 to 500 miles?
Date: Thu, 30 Jul 2009 04:49:04 +0000 (UTC)
Organization: MGT Consulting
Lines: 17
Message-ID: <slrnh729bd.ipe.gsm@cable.mendelson.com>
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
 <Jl2cm.1587$646.1047@nwrddc01.gnilink.net>
 <c4-dnXrSLZ0umezXnZ2dnUVZ_vxi4p2d@bright.net>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-139-112-64.bb.netvision.net.il
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: max.inside.misty.com 1248929344 6986 89.139.112.64 (30 Jul 2009 04:49:04
GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Thu, 30 Jul 2009 04:49:04 +0000 (UTC)
User-Agent: slrn/pre1.0.0-2 (Linux)
X-Original-Bytes: 1481
Xref: g2news2.google.com rec.radio.amateur.homebrew:2972

Scott wrote:


> Unless you buy one of those illegal amps on eBay ;)

I was the one who suggested he get a CB in the first place. It was not to
give him range, it was because it is more likely if he needs assistance
someone nearby will be listening on one.

That's also why I suggested he join an off-roader's club and use whatever
radios they do.

Geoff.



--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com  N3OWJ/4X1GM


From 7399523633716768338
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 30 Jul 2009 05:44:35 -0500
Date: Thu, 30 Jul 2009 10:44:33 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.22 (Windows/20090605)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100
 to 500 miles?
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
<Jl2cm.1587$646.1047@nwrddc01.gnilink.net> <c4-
dnXrSLZ0umezXnZ2dnUVZ_vxi4p2d@bright.net> <slrnh729bd.ipe.gsm@cable.mendelson.com>
In-Reply-To: <slrnh729bd.ipe.gsm@cable.mendelson.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <JLGdnXcHecc05OzXnZ2dnUVZ_sGdnZ2d@bright.net>
Lines: 27
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
SNaXyOkurNCTOZJv5aKefo8yEIjNnIUrjQFaofc61VuaS9ZFtNN8BRIrNin+am2zKp7q2Ywqs+5xo2o!
3ZXqIAljpOHfc5PelXrepaEAMLMVrD/6DI3G8BAkM1GSdN/n1JbDyQ5wW4oty0so2f+TYPQ4/hxA!
YOHpMGZGVw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2321
Xref: g2news2.google.com rec.radio.amateur.homebrew:2973

Geoffrey S. Mendelson wrote:
> Scott wrote:
>
>
>> Unless you buy one of those illegal amps on eBay ;)
>
> I was the one who suggested he get a CB in the first place. It was not to
> give him range, it was because it is more likely if he needs assistance
> someone nearby will be listening on one.
>
> That's also why I suggested he join an off-roader's club and use whatever
> radios they do.
>
> Geoff.
>
>

I understand. Yes, sadly, that is probably true nowadays. Calls on
most any 2M repeater in the USA go mostly unanswered, so if you need
some sort of assitance, CB may be the way to go. However, I applaud the
original poster on wanting to get a ham license regardless of whether it

would be the most practical route for him to take in his quest...for
times when he is not biking or whatever, he can chat with folks in any
of the four corners of the world (and actually, he CAN do it, even while
biking!) :)

Scott
N0EDV

```
From -9086199163694600358
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g6g2000vbr.googlegroups.com!not-for-
mail
From: stan <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100 to
     500 miles?
Date: Thu, 30 Jul 2009 08:18:03 -0700 (PDT)
Organization: http://groups.google.com
Lines: 36
Message-ID: <4c2fcc57-93f9-4d2f-96b2-b090f0e2aa70@g6g2000vbr.googlegroups.com>
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
     <gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>
<CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk>
     <slrnh6unej.jno.gsm@cable.mendelson.com> <XGf+w3ROQ2bKFwo2@g3ohx.demon.co.uk>
     <f07c20d1-6cee-4515-ab9c-2b67aa139f1e@v23g2000pro.googlegroups.com>
NNTP-Posting-Host: 142.162.128.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1248967084 10934 127.0.0.1 (30 Jul 2009 15:18:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 30 Jul 2009 15:18:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g6g2000vbr.googlegroups.com; posting-host=142.162.128.246;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2974
```

On Jul 28, 7:16=A0pm, "acann...@wwc.com" <acann...@wwc.com> wrote:

> Thank you for all your excellent and useful responses!
>
> To clarify my purpose:
>
> 1- I've been waiting for an excuse to get into Ham radio. I'm very
> interested in learning RF circuitry (Experimental Methods in RF Design
> is enroute as we speak), and this is a perfect opportunity, because I
> actually need it! So Im up for getting a license.
>
> 2- The purpose of the radio is for emergency and for the cool factor
> of being able to talk to home from 100+ miles away in the desert and

> tell them about all the sand and rocks i see. Exciting for them!
>
> 3- The CB does sound better for emergency. So now, lets change the
> purpose of the ham radio to just "cool of taking to home 100+ miles
> away". And I will get a CB for emergency.
>
> I had been leaning toward 20 meters since it has been described
> everywhere as the DX band of choice. Now I see that it may not work
> well so "close" as 100 miles. But wouldn't 80 meters have even more of
> a problem? I am still not clear on which band to use...maybe some more
> help please?

Just to give some idea of the variability of 'Amateur Bands' due to
solar radiation, time of day etc.
Back some 50+ years ago had a war surplus receiver and on 20 metres
(14 megahertz) band could listen to the Australian amateurs rolling in
and chatting with the UK and Stateside hams early morning while f
getting ready for work. And this was with AM (Amplitude modulation)
and often with self built rigs. A few years later 20 m was dead.
(Sunspot cycle!).
Also operating at 5 megahertz military reserve frequency we sometimes
could transmit/receive hundreds of miles but not 40 miles to another
unit. It's radio!
Have fun.

From -1682896374765055260
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com> <Jl2cm.1587$646.1047@nwrddc01.gnilink.net> <c4-dnXrSLZ0umezXnZ2dnUVZ_vxi4p2d@bright.net> <slrnh729bd.ipe.gsm@cable.mendelson.com> <JLGdnXcHeccO5OzXnZ2dnUVZ_sGdnZ2d@bright.net>
Subject: Re: best setup for vehicle to base communication seperated by 100 to 500 miles?
Lines: 40
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <guncm.1758$646.1504@nwrddc01.gnilink.net>
Date: Thu, 30 Jul 2009 20:35:24 GMT
NNTP-Posting-Host: 173.55.69.9

```
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1248986124 173.55.69.9 (Thu, 30 Jul 2009 16:35:24
EDT)
NNTP-Posting-Date: Thu, 30 Jul 2009 16:35:24 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2975
X-Original-Bytes: 2797

> >> Unless you buy one of those illegal amps on eBay ;)
> >
> > I was the one who suggested he get a CB in the first place. It was not
to
> > give him range, it was because it is more likely if he needs assistance
> > someone nearby will be listening on one.
> >
> > That's also why I suggested he join an off-roader's club and use
whatever
> > radios they do.
> >
> > Geoff.
> >
> >
> I understand.  Yes, sadly, that is probably true nowadays.  Calls on
> most any 2M repeater in the USA go mostly unanswered, so if you need
> some sort of assitance, CB may be the way to go.  However, I applaud the
> original poster on wanting to get a ham license regardless of whether it
> would be the most practical route for him to take in his quest...for
> times when he is not biking or whatever, he can chat with folks in any
> of the four corners of the world (and actually, he CAN do it, even while
> biking!) :)
>
> Scott
> N0EDV

Even with one of those illegal amps, you are still limited to the whim of
the ionosphere and absorption of the groundwave.  Especially if you are
stuck on 27 Mc.

True about 2m.  You never know where the repeaters are, what the frequency
and PL are, or if everybody is at work.  At least on $0 and 80 you can
always find retired old codgers.  The 440 or 1.2 guy might have his radio
right there in the shop or in the office and you can get a stern warning if
you disturb his private remote.

But CB might at least allow you to scope out where the hookers and drugs can
be found.




From 7553182979813375316
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 30 Jul 2009 19:11:10 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: best setup for vehicle to base communication seperated by 100
 to 500 miles?
Newsgroups: rec.radio.amateur.homebrew
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
     <gIadnQj-p7kJ2PLXnZ2dnUVZ_hxi4p2d@web-ster.com>
     <CyC7tUN5N1bKFw5j@g3ohx.demon.co.uk>
     <slrnh6unej.jno.gsm@cable.mendelson.com>
     <XGf+w3ROQ2bKFwo2@g3ohx.demon.co.uk>
     <f07c20d1-6cee-4515-ab9c-2b67aa139f1e@v23g2000pro.googlegroups.com>
     <O6Sdnfo2k9sVv-3XnZ2dnUVZ_oGdnZ2d@bright.net>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <1YednfjkocIDq-_XnZ2dnUVZ_sGdnZ2d@web-ster.com>
Date: Thu, 30 Jul 2009 19:11:10 -0500
Lines: 41
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-9UfRes8+akJuloJF5xoRNJt1Z01SWO3FdcmqoVw9ClJKr67RphKjtvvKyx/
ZcdyMx0uiOhxArvFQpmZ!
vsnRwrLcZCFtUK1JJjyCPpueaXmtNLYYitf48c4dHGk4Od7uoimqWi7ZsCtJHV/4ZJf1zYLMqN41!
im1d4oKliBQXXPA=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 3112
Xref: g2news2.google.com rec.radio.amateur.homebrew:2976

On Wed, 29 Jul 2009 10:20:55 +0000, Scott wrote:

> acannell@wwc.com wrote:
>> Thank you for all your excellent and useful responses!
>>
>> To clarify my purpose:
>>
>> 1- I've been waiting for an excuse to get into Ham radio. I'm very
>> interested in learning RF circuitry (Experimental Methods in RF Design
>> is enroute as we speak), and this is a perfect opportunity, because I
>> actually need it! So Im up for getting a license.
>>
>> 2- The purpose of the radio is for emergency and for the cool factor of
>> being able to talk to home from 100+ miles away in the desert and tell
>> them about all the sand and rocks i see. Exciting for them!
>>
>> 3- The CB does sound better for emergency. So now, lets change the
>> purpose of the ham radio to just "cool of taking to home 100+ miles

```
>> away". And I will get a CB for emergency.
>>
>> I had been leaning toward 20 meters since it has been described
>> everywhere as the DX band of choice. Now I see that it may not work
>> well so "close" as 100 miles. But wouldnt 80 meters have even more of a
>> problem? I am still not clear on which band to use...maybe some more
>> help please?
>>
>>
> Get a modern solid state radio that covers all HF ham bands and an
> antenna such as the "Outbacker" or "Screwdriver" so that you have one
> mobile antenna capable of being tuned to any HF band.  I would say that
> 40 meters would be one of the better choices during the day but with the
> multiband antenna, you try the different bands until you find the one
> that works at the time you try calling.
>
> Scott
> N0EDV

Yea verily.  What I was trying to say, only better stated.

--
http://www.wescottdesign.com



From 4566474163721090484
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!b14g2000yqd.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100 to
     500 miles?
Date: Thu, 30 Jul 2009 22:37:23 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <75eb9dd1-b9d6-4e75-a298-8e55566725f6@b14g2000yqd.googlegroups.com>
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
     <Jl2cm.1587$646.1047@nwrddc01.gnilink.net> <c4-
dnXrSLZ0umezXnZ2dnUVZ_vxi4p2d@bright.net>
     <slrnh729bd.ipe.gsm@cable.mendelson.com>
<JLGdnXcHeccO5OzXnZ2dnUVZ_sGdnZ2d@bright.net>
NNTP-Posting-Host: 76.226.217.126
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1249018643 19158 127.0.0.1 (31 Jul 2009 05:37:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 31 Jul 2009 05:37:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
```

```
Injection-Info: b14g2000yqd.googlegroups.com; posting-host=76.226.217.126;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.0.12)
     Gecko/2009070811 Ubuntu/9.04 (jaunty) Firefox/3.0.12,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2977

Hey OM:

I seen a van on youtube this guy had two dual 4-1000a PA's, and a gas
powered generator in the back. On 20 meters he'd be rocking the world.
Do you think he was running class A? I don't think he was using it to
break pileups.

73 OM
de n8zu



On Jul 30, 6:44=A0am, Scott <acepilotREM...@bloomer.net> wrote:
> Geoffrey S. Mendelson wrote:
> > Scott wrote:
>
> >> Unless you buy one of those illegal amps on eBay ;)
>
> > I was the one who suggested he get a CB in the first place. It was not =
to
> > give him range, it was because it is more likely if he needs assistance
> > someone nearby will be listening on one.

> > Geoff.
>
> I understand. =A0Yes, sadly, that is probably true nowadays. =A0Calls on
> most any 2M repeater in the USA go mostly unanswered, so if you need
> some sort of assitance, CB may be the way to go. =A0
>
> Scott
> N0EDV



From 4396472152961847103
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 31 Jul 2009 06:11:42 -0500
Date: Fri, 31 Jul 2009 11:11:42 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.22 (Windows/20090605)
```

```
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100
 to 500 miles?
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
<Jl2cm.1587$646.1047@nwrddc01.gnilink.net> <c4-
dnXrSLZ0umezXnZ2dnUVZ_vxi4p2d@bright.net> <slrnh729bd.ipe.gsm@cable.mendelson.com>
<JLGdnXcHeccO5OzXnZ2dnUVZ_sGdnZ2d@bright.net>
<guncm.1758$646.1504@nwrddc01.gnilink.net>
In-Reply-To: <guncm.1758$646.1504@nwrddc01.gnilink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Saydnd61CfzzTO_XnZ2dnUVZ_tGdnZ2d@bright.net>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-5so+fACRMq2dXELt1i/qO8bDEOlDfcJ0UPAVAuDTF+nf7hXOeCU/
VMfd8YH7luqAw3HDzshV+f/uCdx!DsDtAowaax7yQvK/
9b9Xpjm2a5Vy7ymS6lxkV3sQ9rhFHkjVMTjfDo9G0hu32TTHr0KHln6p2czr!JaddamR5Xw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1869
Xref: g2news2.google.com rec.radio.amateur.homebrew:2978
```

JB wrote:

>
> But CB might at least allow you to scope out where the hookers and drugs can
> be found.
>
>

Oops, forgot about that aspect! It looks like you get more bang for the
buck with CB (no pun intended) ;)

All kidding aside, I still encourage the op to get a license and get on
the bands. It can be relaxing to yack on the radio when you're NOT out
biking or doing other things...

Scott
N0EDV

```
From 8096748074646014813
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
newshosting.com!novia!border2.nntp.dca.giganews.com!nntp.giganews.com!
```

```
backlog2.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 31 Jul 2009 06:17:37 -0500
Date: Fri, 31 Jul 2009 11:17:36 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.22 (Windows/20090605)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100
 to  500 miles?
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
     <Jl2cm.1587$646.1047@nwrddc01.gnilink.net> <c4-
dnXrSLZ0umezXnZ2dnUVZ_vxi4p2d@bright.net>
<slrnh729bd.ipe.gsm@cable.mendelson.com>
<JLGdnXcHeccO5OzXnZ2dnUVZ_sGdnZ2d@bright.net> <75eb9dd1-b9d6-4e75-
a298-8e55566725f6@b14g2000yqd.googlegroups.com>
In-Reply-To: <75eb9dd1-b9d6-4e75-a298-8e55566725f6@b14g2000yqd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <TOKdnXyOl_tMT-_XnZ2dnUVZ_jmdnZ2d@bright.net>
Lines: 19
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace:
sv3-33mXaJfZxqHersk1GhSGBXdkEHVAwSTVt46RBs4bEfVxN6PYOOdLBVsp2ml1O1TdQxG033Ku/
zcVkkA!N2JbmjGxb9kybV8GQOJNbHFaH3r56OUG0CTl8+F32Tq26+6F2SJ/
vFMmzdjK0DT4+piaggUwkDfz!UOLtXyiPfA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2979
```

raypsi wrote:

> Hey OM:
>
> I seen a van on youtube this guy had two dual 4-1000a PA's, and a gas
> powered generator in the back. On 20 meters he'd be rocking the world.
> Do you think he was running class A? I don't think he was using it to
> break pileups.
>
> 73 OM
> de n8zu

>

A PAIR of 4-1000A's? HOLY CRAP, BATMAN!! I'd be surprised if he didn't melt the sides and roof off on the van :) Do you have a link to the video on youtube? I'd like to see that ;)

Scott
N0EDV

From -8510983500402306943
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!v37g2000prg.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: best setup for vehicle to base communication seperated by 100 to 500 miles?
Date: Fri, 31 Jul 2009 18:23:06 -0700 (PDT)
Organization: http://groups.google.com
Lines: 42
Message-ID: <990ecc73-31da-4201-a43f-2e1428e36258@v37g2000prg.googlegroups.com>
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
<Jl2cm.1587$646.1047@nwrddc01.gnilink.net> <c4-dnXrSLZ0umezXnZ2dnUVZ_vxi4p2d@bright.net>
<slrnh729bd.ipe.gsm@cable.mendelson.com>
<JLGdnXcHeccO5OzXnZ2dnUVZ_sGdnZ2d@bright.net>
<75eb9dd1-b9d6-4e75-a298-8e55566725f6@b14g2000yqd.googlegroups.com>
<TOKdnXyOl_tMT-_XnZ2dnUVZ_jmdnZ2d@bright.net>
NNTP-Posting-Host: 76.226.217.126
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1249089786 11849 127.0.0.1 (1 Aug 2009 01:23:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 1 Aug 2009 01:23:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v37g2000prg.googlegroups.com; posting-host=76.226.217.126; posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.12) Gecko/2009070611 Firefox/3.0.12 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2980

Hey OM

I am still tryin to cobble together a 4-1000a PA I first did my research googled the heck out of 4-1000a. By golly there is a tonne of stuff out there. I'm sure I found it while googling google video.

My base station would have frequency hopping beacons on all HF bands, so I could tell what the best frequency is to use. I would always get an update of the MUF off the internet. Along with any solar activity, the solar flux, A and K indices, sun spots are down so you won't have to worry about those for about 5 more years.

You just can't do that with a single band that's only a few Khz wide

Maybe he should go VLF like the bubble heads do and use D star digital on VLF band. With a big bug catcher basket wound coil on VLF would

```
look like a cooling tower on a van.

73 OM
de n8zu

On Jul 31, 7:17=A0am, Scott <acepilotREM...@bloomer.net> wrote:
> raypsi wrote:
> > Hey OM:
>
> > I seen a van on youtube this guy had two dual 4-1000a PA's, and a gas
> > powered generator in the back. On 20 meters he'd be rocking the world.
> > Do you think he was running class A? I don't think he was using it to
> > break pileups.
>
> > 73 OM
> > de n8zu
>
> A PAIR of 4-1000A's? =A0HOLY CRAP, BATMAN!! =A0I'd be surprised if he did=
n't
> =A0 melt the sides and roof off on the van :) =A0Do you have a link to th=
e
> video on youtube? =A0I'd like to see that ;)
>
> Scott
> N0EDV



From -5869887350970178161
X-Google-Thread: a4a23d5f63,d80abdb024304cc8,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2.glorb.com!
transit3.readnews.com!news-out.readnews.com!transit4.readnews.com!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1246428001@panix.com>
Followup-To: poster
Date: 1 Aug 2009 02:00:03 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 03 Sep 2009 02:00:00 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1249106400@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
```

NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1249106403 11583 166.84.1.2 (1 Aug 2009 06:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 1 Aug 2009 06:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
Xref: g2news2.google.com rec.radio.amateur.antenna:13344 rec.radio.amateur.dx:455 rec.radio.amateur.equipment:1686 rec.radio.amateur.homebrew:2981 rec.radio.amateur.misc:4391 rec.radio.amateur.policy:26557 rec.radio.amateur.space:269 rec.radio.info:879

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From 580269327449882856
X-Google-Thread: 241b302a50,df8ad46374736e7a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <e67c31a6-a42c-4c18-8ec0-a09881e8e418@y10g2000prf.googlegroups.com>
<Jl2cm.1587$646.1047@nwrddc01.gnilink.net> <c4-
dnXrSLZ0umezXnZ2dnUVZ_vxi4p2d@bright.net> <slrnh729bd.ipe.gsm@cable.mendelson.com>
<JLGdnXcHeccO5OzXnZ2dnUVZ_sGdnZ2d@bright.net> <75eb9dd1-b9d6-4e75-
a298-8e55566725f6@b14g2000yqd.googlegroups.com> <TOKdnXyOl_tMT-
_XnZ2dnUVZ_jmdnZ2d@bright.net> <990ecc73-31da-4201-
a43f-2e1428e36258@v37g2000prg.googlegroups.com>
Subject: Re: best setup for vehicle to base communication seperated by 100 to 500
miles?
Lines: 4
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <co0dm.141$nh2.44@nwrddc02.gnilink.net>
Date: Sat, 01 Aug 2009 19:07:52 GMT
NNTP-Posting-Host: 173.55.72.101
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1249153672 173.55.72.101 (Sat, 01 Aug 2009 15:07:52
EDT)
NNTP-Posting-Date: Sat, 01 Aug 2009 15:07:52 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2982
X-Original-Bytes: 1607
```

I find a set of 811As to be quite efficient and useful on occasion. I have no need of hundreds of people calling me in frustration who are 3 s-units below the noise floor.

From 5700328708003321138
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!188.40.43.213.MISMATCH!feeder.eternal-september.org!eternal-september.org!not-for-mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: home brew toroid winding machine
Date: Sat, 01 Aug 2009 22:13:19 -0400
Organization: A noiseless patient Spider
Lines: 10
Message-ID: <h52smq$cna$1@news.eternal-september.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.eternal-september.org U2FsdGVkX1+do/nLzpfUy8Hx+kR/Wj3Pjke0yLqaUDERFVwjCZvVSdb1/0ot1t03LZvvOUTr/i7pNZ/OxEpbhWGb3nkqYG67La51yVTZENY98qyJhcq6Jh6oaGuPq/6IZhK9N2wg698=
X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Sun, 2 Aug 2009 02:12:43 +0000 (UTC)
X-Auth-Sender: U2FsdGVkX19LvKVWE07o2dKp7jPp8LB4dduu6xoz7VCBywPL8KM1Bw==
Cancel-Lock: sha1:CXiXFh84OGczTyqFD5YLA82xp9w=
User-Agent: Mozilla-Thunderbird 2.0.0.19 (X11/20090103)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2983

This has got to be one of the most original bits of home brew art I've ever seen!

http://waterfuelcell.org/phpBB2/viewtopic.php?t=1034&postdays=0&postorder=asc&&start=0

Has anybody out there ever tried something like this? I wish I could figure out how to scale this down to wind smaller toroids.

BTW there is a commercial toroid winder on ebay right now, starting bid is $99 that will wind most toroid sizes useful for ham projects.

From 2333423951821244788
X-Google-Thread: 241b302a50,7d522504c6b8b129,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!eweka.nl!hq-usenetpeers.eweka.nl!cyclone01.ams2.highwinds-media.com!news.highwinds-media.com!npeersf01.ams.highwinds-media.com!newsfe03.ams2.POSTED!7564ea0f!not-for-mail
From: <helptheaged@oldies.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: So do you chaps
Lines: 8
MIME-Version: 1.0

```
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18005
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18005
Message-ID: <8dzdm.9031$Kh7.8780@newsfe03.ams2>
NNTP-Posting-Host: 82.17.187.40
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe03.ams2 1249296324 82.17.187.40 (Mon, 03 Aug 2009 10:45:24 UTC)
NNTP-Posting-Date: Mon, 03 Aug 2009 10:45:24 UTC
Organization: virginmedia.com
Date: Mon, 3 Aug 2009 11:45:20 +0100
Xref: g2news2.google.com rec.radio.amateur.homebrew:2984
```

So you chaps enjoy siting round drinking brew's
and listening to the radio all day?
Its a good way to get through the 'so called' summer hollidays.
I like uk radio 4, its a grand station. It has plays , book readings and
radio documentaries, loads better than that strange 'beat' music I don't
understand.
Anyhow good on you chaps, you sit back have a brew and enjoy the radio.

```
From 8839811051186702706
X-Google-Thread: 241b302a50,29e8389e3980d5b6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k13g2000prh.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: home brew toroid winding machine
Date: Mon, 3 Aug 2009 08:18:38 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <fd589c29-8082-4685-8c67-bbdaa7d49548@k13g2000prh.googlegroups.com>
References: <h52smq$cna$1@news.eternal-september.org>
NNTP-Posting-Host: 76.226.217.126
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1249312718 13072 127.0.0.1 (3 Aug 2009 15:18:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 3 Aug 2009 15:18:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k13g2000prh.googlegroups.com; posting-host=76.226.217.126;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
```

```
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.8.1)
     Gecko/20061010 Firefox/2.0,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2985

On Aug 1, 10:13 pm, Kenneth Scharf <wa2...@bellsouth.net> wrote:
> This has got to be one of the most original bits of home brew art I've
> ever seen!
>
> http://waterfuelcell.org/phpBB2/viewtopic.php?t=1034&postdays=0&posto...
>
> Has anybody out there ever tried something like this?  I wish I could
> figure out how to scale this down to wind smaller toroids.
>
> BTW there is a commercial toroid winder on ebay right now, starting bid
> is $99 that will wind most toroid sizes useful for ham projects.

Hey OM

Guess your link is broken.
Yeah being able to wind 4 AWG solid wire on a toroid would be nice.

73 OM
de n8zu



From -7624325989872038542
X-Google-Thread: 241b302a50,29e8389e3980d5b6
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
newsfeed.straub-nv.de!feeder.eternal-september.org!eternal-september.org!not-for-
mail
From: Kenneth Scharf <wa2mze@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: home brew toroid winding machine
Date: Mon, 03 Aug 2009 14:15:14 -0400
Organization: A noiseless patient Spider
Lines: 22
Message-ID: <h579se$oag$1@news.eternal-september.org>
References: <h52smq$cna$1@news.eternal-september.org> <fd589c29-8082-4685-8c67-
bbdaa7d49548@k13g2000prh.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.eternal-september.org
U2FsdGVkX1+yb7oMEt24Gmj0S0hmXm6BPPOrBcABAP+tI5RCucXbXmFRlw1VOA6HqexoZI7FWZVgDjtWZG
rayXs2oRjHM3EhUcEdLalx2Cc+PdwVGOCiSYE2vtv9U169fRDfe0l9vmAxFYu3XVSHNhYR23/jeT3k
X-Complaints-To: abuse@eternal-september.org
NNTP-Posting-Date: Mon, 3 Aug 2009 18:22:07 +0000 (UTC)
In-Reply-To: <fd589c29-8082-4685-8c67-bbdaa7d49548@k13g2000prh.googlegroups.com>
X-Auth-Sender: U2FsdGVkX1+F1t2ipkftHwcqpbFVBzRecGhuvp5v7ge4IxNxGySNig==
Cancel-Lock: sha1:aL51pjt/n+Ck6C74ZgIzBdo37Ns=
User-Agent: Mozilla-Thunderbird 2.0.0.22 (X11/20090707)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2986

raypsi wrote:
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>>
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>> figure out how to scale this down to wind smaller toroids.
>>
>> BTW there is a commercial toroid winder on ebay right now, starting bid
>> is $99 that will wind most toroid sizes useful for ham projects.
>
> Hey OM
>
> Guess your link is broken.
> Yeah being able to wind 4 AWG solid wire on a toroid would be nice.
>
> 73 OM
> de n8zu
I just tried the link and it connected.
Or you can google for 'home made toroid winding machine'


From 4375663043792832908
X-Google-Thread: 241b302a50,7d522504c6b8b129
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!newspeer1.se.telia.net!
se.telia.net!masternews.telia.net.!newsb.telia.net.POSTED!not-for-mail
From: "Eddy Grant" <Eddy.Grant_NOSPAM@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <8dzdm.9031$Kh7.8780@newsfe03.ams2>
Subject: Re: So do you chaps
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <pYFdm.10689$U5.138363@newsb.telia.net>
Date: Mon, 03 Aug 2009 18:25:25 GMT
NNTP-Posting-Host: 81.227.200.9
X-Complaints-To: abuse@telia.com
X-Trace: newsb.telia.net 1249323925 81.227.200.9 (Mon, 03 Aug 2009 20:25:25 CEST)
NNTP-Posting-Date: Mon, 03 Aug 2009 20:25:25 CEST
Organization: Telia Internet
Xref: g2news2.google.com rec.radio.amateur.homebrew:2987
```

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> and listening to the radio all day?
> Its a good way to get through the 'so called' summer hollidays.
> I like uk radio 4, its a grand station. It has plays , book readings and
> radio documentaries, loads better than that strange 'beat' music I don't
> understand.
> Anyhow good on you chaps, you sit back have a brew and enjoy the radio.

I wondered what the radio bit was - there are an awful
lot of radio topics. I thought this was a newsgroup for
amateur brewers, like me, who make their own beer and
wines and stuff.

I make wine, mead, and also a little vodka, but better
not shout too loundly about that ;-) I am willing to share
recipes, if anyone is interested.

```
From -3950754031165903904
X-Google-Thread: 241b302a50,7c322c4d10879683
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2.glorb.com!
bigfeed3.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!
news.bellsouth.net!bignews4.bellsouth.net.POSTED!0ed2130f!not-for-mail
From: "Mike Lucas" <w5chr@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
References: <fGS%l.14151$he4.7739@bignews3.bellsouth.net>
<YLqdnbkSzb7Alt3XnZ2dnUVZ_tednZ2d@giganews.com>
Subject: Re: IC's to finish some projects.
Lines: 30
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <UpU%l.58311$qa.14778@bignews4.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
npbhgpngjbkmjfegdbdpiflmbcekedmfhojhikkbagflhcboknnmakpepnjbnkaaeooennmcmaokhoinni
gimaeolggpchlfmeegfjfccljiklonmmobmnhejeihnjjgpllimejggkhpmjokbbokcphmohahbbgf
NNTP-Posting-Date: Mon, 22 Jun 2009 19:25:40 EDT
Organization: BellSouth Internet Group
Date: Mon, 22 Jun 2009 18:28:33 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:2886
```

"Dave M" <masondg4499@comcast.net> wrote in message >

> Your projects might be DIW if no one has them in their junquebox. What
> are your projects? Might be a workaround for some of the unobtanium
> parts.
>

Dave: Lots of projects, so little time and money! The LM373 is for a simple
SSB receiver for 3600-3800. HR in the early and mid 70's had a bunch
of projects using this chip, and I have everything needed to build a
nostalgia
receiver. I have read lots of bad stuff about the chip, how the audio is
distorted,
poor agc, etc, but I want to hear it for myself

Tnx for your recommend of Unicorn Electronics. I bought 1 of the LM373,
several of the 3911 Temp controller chips and some other obsolete IC's
at reasonable prices, just last month from them. Mike's Hobby, Warrenvill,
Il.
had a few LM series chips, and I cleaned them out last week.

All of the 300 series chips are available in big lots through the Evil
Chip-Mongers,
but onezies are difficult to locate.

Thanks for the post, Dave, I'll let the group know how the project turns out

Mike W5CHR
Memphis.

From -7991188907011207286
X-Google-Thread: 241b302a50,7c322c4d10879683
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: IC's to finish some projects.
Date: 23 Jun 2009 02:18:53 GMT
Lines: 29
Message-ID: <slrnh40esd.2mhb.bit-bucket@shell.config.com>
References: <fGS%l.14151$he4.7739@bignews3.bellsouth.net>
<YLqdnbkSzb7Alt3XnZ2dnUVZ_tednZ2d@giganews.com>
<UpU%l.58311$qa.14778@bignews4.bellsouth.net>
X-Trace: individual.net YY9NRw2VfQRogPZpeWGpeApvPj2tKX6+93LXvsXvBsaOYkv8jp
Cancel-Lock: sha1:MH7WXV4Ho4UwzXYt2L7cCv9zIL0=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2887

On Mon, 22 Jun 2009 18:28:33 -0500, Mike Lucas wrote:
> "Dave M" <masondg4499@comcast.net> wrote in message >

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> had a few LM series chips, and I cleaned them out last week.
>
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> Chip-Mongers,
> but onezies are difficult to locate.

Always keep in mind:

http://www.danssmallpartsandkits.net/

Jonesy

From -672790208427196240
X-Google-Thread: 241b302a50,cd6d94016638cf05
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!x6g2000prc.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Other uses for Microwave oven transformers?
Date: Tue, 23 Jun 2009 14:22:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 109
Message-ID: <48d33da4-4852-4662-b4f1-e4fc3f6ac294@x6g2000prc.googlegroups.com>
References: <a3476bb2-7b69-44a9-8b92-63eb7ebf4f94@g20g2000vba.googlegroups.com>
<Pine.NEB.4.64.0906221437010.10155@sdf.lonestar.org> <p3m4h6-vub.ln1@mikea.ath.cx>
<Pine.NEB.4.64.0906221744310.26472@sdf.lonestar.org>
NNTP-Posting-Host: 76.226.206.226
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1245792129 12370 127.0.0.1 (23 Jun 2009 21:22:09 GMT)
X-Complaints-To: groups-abuse@google.com

```
NNTP-Posting-Date: Tue, 23 Jun 2009 21:22:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x6g2000prc.googlegroups.com; posting-host=76.226.206.226;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.11)
     Gecko/2009060215 Firefox/3.0.11 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2889

On Jun 22, 1:47=A0pm, Stray Dog <qcwa...@sdf.lonestar.org> wrote:
> On Mon, 22 Jun 2009, mikea wrote:
> > Date: Mon, 22 Jun 2009 10:55:05 -0500
> > From: mikea <mi...@mikea.ath.cx>
> > Newsgroups: rec.radio.amateur.homebrew
> > Subject: Re: Other uses for Microwave oven transformers?
>
> > Stray Dog <qcwa...@sdf.lonestar.org> wrote in <Pine.NEB.4.64.0906221437=
010.10...@sdf.lonestar.org>:
>
> >> In the end, I wound up buying my plate transformers at hamfests and al=
so
> >> one, new, made by Hammond in Canada. Peter Dahl is out of business, an=
d
> >> Ameritron (I think) will sell plate transformers and some are reasonab=
ly
> >> priced for the power and voltage. Fair Radio Sales (Lima, Ohio) and
> >> Radio-Daze (NY) are two that sell Hammond transformers, including larg=
e
> >> plate transformers (many types, specs all over the map, too).
>
> > Well, yes, Peter is out of the business, but the transformers and other
> > items are still being built to his specs:
>
> > <http://forums.qrz.com/showthread.php?t=3D153611?
>
> > <blockquote>
> > Peter Dahl Company has NOT been sold. It is NOT moving across the borde=
r
> > to Mexico. Gary no longer works for the them. The Peter Dahl Company ha=
s
> > stopped production, is closing their doors, and will become part of
> > Amateur Radio History!
>
> > But the NAME lives on!
>
> > Jeff Weinberg, W8CQ of Harbach Electronics, has purchased the rights to
> > the name, the original transformer and choke specifications and designs=
,
> > and the design equipment.
>
> > The transformers will be built by MagCap Engineering using the original
> > PWD specs, and sold through Harbach Electronics under the Peter Dahl
> > name. The transformer and chokes will be FOB Canton, MA and shipped
```

> > directly to the customer from MagCap.
>
> > This is great news for the Amateur Radio Community and a great way to
> > memorialize the Peter Dahl Company who's innovations and designs have
> > brought so much to our hobby.
>
> > To nullify any further rumors or innuendos about the status or future o=
f
> > the Peter W Dahl Company, let me share the following e-mail with you
> > (edited for content)...
>
> > Quote:
> > Re: Harbach Electronics and Peter Dahl
> > From: "Jeff Weinberg W8CQ"
> > Date: Wed, February 20, 2008 2:30 pm
> > To: "Dino Darling"
>
> > Hi Dino,
> > Yes, the deal is finally completed. I have purchased all of the
> > transformer
> > designs and design equipment from Peter Dahl. I am moving the equipment
> > here to Ohio. Once all of the computer design work has been updated and
> > cataloged, I will be selling Peter Dahl transformers and chokes.
>
> > I should be up and running in a couple months.
>
> > (snip)
>
> > MagCap will be building the transformers according to the original Pete=
r
> > Dahl designs and specs and will be sold by Harbach Electronics under th=
e
> > Peter W. Dahl name.
>
> > Regards,
> > Jeff Weinberg W8CQ
> > Harbach Electronics
>
> >http://www.harbachelectronics.com
> > I've heard great things about Jeff and his company from people I know
> > and respect. To me this is a great day in Amateur Radio and I look
> > forward to the future with Peter W Dahl firmly rooted in our hobby!
> > </blockquote>
>
> > --
> > Mike Andrews, W5EGO
> > mi...@mikea.ath.cx
> > Tired old sysadmin
>
> Thanks for the info. It goes beyond what came out in QST at the time and
> that was that production was going to end, period. There was no hint at
> all in the QST anouncement that there was even any possibility for
> continuation.

Hey OM:

The only way to do them is to tear them down to the lams re insulate the lams and re stack them.

Only because they put weld shunt shorts on the lams that act as shorted windings, plus the welds hold the lams together, because they don't interweave them.

73 OM
de n8zu

From -4204735976995384664
X-Google-Thread: 241b302a50,76a60234dfdb40eb
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!feeder2.news.saunalahti.fi!uutiset.elisa.fi!7564ea0f!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Filter choke specs
Message-ID: <3ib345h0a19jhag2k7gql85aoothao0dkm@4ax.com>
References: <001be9d5$0$5786$c3e8da3@news.astraweb.com> <CHt%l.433$NF6.336@nwrddc02.gnilink.net> <33ea2446-6d9c-4579-b491-24073ef56508@q3g2000pra.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 31
Date: Wed, 24 Jun 2009 08:03:41 +0300
NNTP-Posting-Host: 85.77.243.201
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1245819821 85.77.243.201 (Wed, 24 Jun 2009 08:03:41 EEST)
NNTP-Posting-Date: Wed, 24 Jun 2009 08:03:41 EEST
Organization: Elisa Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:2890

On Tue, 23 Jun 2009 13:44:24 -0700 (PDT), raypsi <RBorowiak@gmail.com> wrote:

>I would steal a page from the japanesse, they came out with the best
>regulators by swamping components down.
>
>In this case they would swamp the inductor with a power resistor. I've
>never seen this tech used by anybody else, except in the orient.
>
>So to gain the extra current all you have to do is parallel a resistor
>across the choke.

>
>Even resistors will regulate, smart darn japanesse.
>
>So all the resistor has to do is soak up the other 250ma with a power
>rating that it can handle the current and voltage.
>
>You could even make it adjustable slider type so it could be tweaked.

In the OP's case, the swamping resistor would have to about twice the DC resistance of the choke to get about 2:1 current share between the choke and the resistor. These resistances are typically in the order of a few ohms.

Looking at the ripple frequencies 100/120 Hz and their harmonics, the inductive reactance for 5 H is in the order of kilo-ohms. A swamping resistor of a few ohms would be practically a short circuit across the choke.

Paul OH3LWR

From -7279953497177248142
X-Google-Thread: 241b302a50,cd6d94016638cf05
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!l28g2000vba.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Other uses for Microwave oven transformers?
Date: Wed, 24 Jun 2009 06:57:12 -0700 (PDT)
Organization: http://groups.google.com
Lines: 131
Message-ID: <4cec2556-388c-4105-a289-94c00eab5445@l28g2000vba.googlegroups.com>
References: <a3476bb2-7b69-44a9-8b92-63eb7ebf4f94@g20g2000vba.googlegroups.com>
     <Pine.NEB.4.64.0906221437010.10155@sdf.lonestar.org> <p3m4h6-vub.ln1@mikea.ath.cx>
     <Pine.NEB.4.64.0906221744310.26472@sdf.lonestar.org> <48d33da4-4852-4662-b4f1-e4fc3f6ac294@x6g2000prc.googlegroups.com>
NNTP-Posting-Host: 75.191.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
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X-Trace: posting.google.com 1245851835 12222 127.0.0.1 (24 Jun 2009 13:57:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 24 Jun 2009 13:57:15 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;

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     Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
     3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2891

On Jun 23, 5:22=A0pm, raypsi <RBorow...@gmail.com> wrote:
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> > On Mon, 22 Jun 2009, mikea wrote:
> > > Date: Mon, 22 Jun 2009 10:55:05 -0500
> > > From: mikea <mi...@mikea.ath.cx>
> > > Newsgroups: rec.radio.amateur.homebrew
> > > Subject: Re: Other uses for Microwave oven transformers?
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> > > Stray Dog <qcwa...@sdf.lonestar.org> wrote in <Pine.NEB.4.64.09062214=
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> > > To nullify any further rumors or innuendos about the status or future=
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> > > the Peter W Dahl Company, let me share the following e-mail with you
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> > > Quote:
> > > Re: Harbach Electronics and Peter Dahl
> > > From: "Jeff Weinberg W8CQ"
> > > Date: Wed, February 20, 2008 2:30 pm
> > > To: "Dino Darling"
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> > > Hi Dino,
> > > Yes, the deal is finally completed. I have purchased all of the
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> > > Peter W. Dahl name.
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> > > Regards,
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> > >http://www.harbachelectronics.com
> > > I've heard great things about Jeff and his company from people I know
> > > and respect. To me this is a great day in Amateur Radio and I look
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> > > mi...@mikea.ath.cx

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> Only because they put weld shunt shorts on the lams that act as
> shorted windings, plus the welds hold the lams together, because they
> don't interweave them.
>
> 73 OM
> de n8zu- Hide quoted text -
>
> - Show quoted text -
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I f you can find some of the older ones and they are getting harder to find you can just knock the shunts out with a hammer and punch. I have given some thought to trying cutting the welds out but I havent had a project lately that I am in that desperate of a need of a transformer..

Jimmie

```
From -8428465449923524518
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!x6g2000prc.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Other uses for Microwave oven transformers?
Date: Wed, 24 Jun 2009 11:23:52 -0700 (PDT)
Organization: http://groups.google.com
Lines: 146
Message-ID: <99b5206e-cc35-4022-8a9c-5a6693203cbe@x6g2000prc.googlegroups.com>
References: <a3476bb2-7b69-44a9-8b92-63eb7ebf4f94@g20g2000vba.googlegroups.com>
     <Pine.NEB.4.64.0906221437010.10155@sdf.lonestar.org> <p3m4h6-
vub.ln1@mikea.ath.cx>
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Complaints-To: groups-abuse@google.com
Injection-Info: x6g2000prc.googlegroups.com; posting-host=76.226.206.226;
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     Gecko/2009060215 Firefox/3.0.11 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2892

On Jun 24, 9:57=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
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From 8661449558511031366

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X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
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mail
From: stan <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Other uses for Microwave oven transformers?
Date: Wed, 24 Jun 2009 17:56:34 -0700 (PDT)
Organization: http://groups.google.com
Lines: 164
Message-ID: <11b9bcf0-079b-4bde-a43a-d97feb6f9105@s6g2000vbp.googlegroups.com>
References: <a3476bb2-7b69-44a9-8b92-63eb7ebf4f94@g20g2000vba.googlegroups.com>
     <Pine.NEB.4.64.0906221437010.10155@sdf.lonestar.org> <p3m4h6-
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     <99b5206e-cc35-4022-8a9c-5a6693203cbe@x6g2000prc.googlegroups.com>
NNTP-Posting-Host: 142.162.128.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1245891394 9393 127.0.0.1 (25 Jun 2009 00:56:34 GMT)
X-Complaints-To: groups-abuse@google.com
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
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Years ago, to my regret (got fed up with stubbing toes on oversize
door stop) I dumped a 115 volt input neon sign transformer that was
capable (IIRC) of some 15,000 volts?
Great big insulators on each end. Probably a few milliamps output.
Don't see them 'open wired' to the neon signs any more as we did many
years ago?




From 7061339768892433526
X-Google-Thread: 241b302a50,76a60234dfdb40eb
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
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Path: g2news2.google.com!postnews.google.com!q37g2000vbi.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Filter choke specs
Date: Thu, 25 Jun 2009 20:32:58 -0700 (PDT)
```

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Organization: http://groups.google.com
Lines: 46
Message-ID: <fe22c442-b836-4927-a31b-80d55bf41e1f@q37g2000vbi.googlegroups.com>
References: <001be9d5$0$5786$c3e8da3@news.astraweb.com>
<CHt%l.433$NF6.336@nwrddc02.gnilink.net>
     <33ea2446-6d9c-4579-b491-24073ef56508@q3g2000pra.googlegroups.com>
     <3ib345h0a19jhag2k7gql85aoothao0dkm@4ax.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1245987178 27342 127.0.0.1 (26 Jun 2009 03:32:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Jun 2009 03:32:58 +0000 (UTC)
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Injection-Info: q37g2000vbi.googlegroups.com; posting-host=76.226.206.226;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.0.11)
     Gecko/2009060309 Ubuntu/9.04 (jaunty) Firefox/3.0.11,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2895

On Jun 24, 1:03=A0am, Paul Keinanen <keina...@sci.fi> wrote:
> On Tue, 23 Jun 2009 13:44:24 -0700 (PDT), raypsi <RBorow...@gmail.com>
> wrote:
>
> >I would steal a page from the japanesse, they came out with the best
> >regulators by swamping components down.
>
> >In this case they would swamp the inductor with a power resistor. I've
> >never seen this tech used by anybody else, except in the orient.
>
> >So to gain the extra current all you have to do is parallel a resistor
> >across the choke.
>
> >Even resistors will regulate, smart darn japanesse.
>
> >So all the resistor has to do is soak up the other 250ma with a power
> >rating that it can handle the current and voltage.
>
> >You could even make it adjustable slider type so it could be tweaked.
>
> In the OP's case, the swamping resistor would have to about twice the
> DC resistance of the choke to get about 2:1 current share between the
> choke and the resistor. These resistances are typically in the order
> of a few ohms.
>
> Looking at the ripple frequencies 100/120 Hz and their harmonics, the
> inductive reactance for 5 H is in the order of kilo-ohms. A swamping
> resistor of a few ohms would be practically a short circuit across the
> choke.
>
> Paul OH3LWR
```

Hey OM:

Now for the rest of the story: use a high voltage FET 2Amp at 800V across the choke and regulate it with a LM431, programmable Zener. I has a EICO Triband HF rig model 753, it's power supply uses 2 chokes, I regulate the outputs: 790 Volts to the final and 275 Volts to the rest of the rig. Solid as a brick outhouse. The chokes take most of the load off the FET's. So if the chokes saturate the FET's take over. With all the mods I done to the EICO 753's regulating the DC outputs is best.

73 OM

de n8zu

```
From -220418412983046934
X-Google-Thread: 241b302a50,76a60234dfdb40eb
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!f10g2000vbf.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Filter choke specs
Date: Fri, 26 Jun 2009 08:39:10 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <40664f63-9b44-4b2b-80d2-1bfb9dcec1f9@f10g2000vbf.googlegroups.com>
References: <001be9d5$0$5786$c3e8da3@news.astraweb.com>
<CHt%l.433$NF6.336@nwrddc02.gnilink.net>
     <33ea2446-6d9c-4579-b491-24073ef56508@q3g2000pra.googlegroups.com>
     <3ib345h0a19jhag2k7gql85aoothao0dkm@4ax.com> <fe22c442-b836-4927-
a31b-80d55bf41e1f@q37g2000vbi.googlegroups.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1246030751 6047 127.0.0.1 (26 Jun 2009 15:39:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Jun 2009 15:39:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f10g2000vbf.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB6;
     .NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2896
```

On Jun 25, 11:32=A0pm, raypsi <RBorow...@gmail.com> wrote:
> Now for the rest of the story: use a high voltage FET 2Amp at 800V

```
> across the choke and regulate it with a =A0LM431, programmable Zener.
> I has a EICO Triband HF rig model 753, it's power supply uses 2
> chokes, I regulate the outputs: 790 Volts to the final and 275 Volts
> to the rest of the rig. Solid as a brick outhouse. The chokes take
> most of the load off the FET's. So if the chokes saturate the FET's
> take over. With all the mods I done to the EICO 753's regulating the
> DC outputs is best.

Ha! Hotmodding an Eico 753. Sorta like putting a supercharger on a
Yugo :-). I can see how both could be fun, in a kinda subversive "it
should've never been sold in the first place, and I'm now going to
take it to the extreme!" sense!

Tim N3QE



From 5349418560646092708
X-Google-Thread: 241b302a50,1d7968157adc95b4
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news6
From: Bill M <radioexray@geemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FS - my Hendricks Scout
Date: Fri, 26 Jun 2009 19:45:39 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 19
Message-ID: <h23mj5016n4@news6.newsguy.com>
References: <h1kmqu01v8d@news1.newsguy.com>
NNTP-Posting-Host: p66d75cef59f38f034e4b5cf6ccc3674f5e1eb7ad301ad163.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <h1kmqu01v8d@news1.newsguy.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2897

Bill M wrote:
> Great little receiver. Nothing that needs any apology.  I've just become
> more focused on my HB Kitchin receiver and hate to see the Scout sitting
> here without a daily walk.
>
> No problems with it.  I sucked out the 'kit building' factor so I'll go
> less than the retail price.  35 USD sound ok?  Plus shipping, call it $5
> in the US.
>
> Inquire to radioexray@gmail.com
>
> -Bill, WX4A
>
```

The Scout Receiver has been sold.

Tnx,
Bill

```
From 2826181852303118271
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g19g2000yql.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Other uses for Microwave oven transformers?
Date: Sat, 27 Jun 2009 11:07:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 187
Message-ID: <cabee138-7b14-4264-94a7-2a58d64f2cfa@g19g2000yql.googlegroups.com>
References: <a3476bb2-7b69-44a9-8b92-63eb7ebf4f94@g20g2000vba.googlegroups.com>
     <Pine.NEB.4.64.0906221437010.10155@sdf.lonestar.org> <p3m4h6-
vub.ln1@mikea.ath.cx>
     <Pine.NEB.4.64.0906221744310.26472@sdf.lonestar.org> <48d33da4-4852-4662-
b4f1-e4fc3f6ac294@x6g2000prc.googlegroups.com>
     <4cec2556-388c-4105-a289-94c00eab5445@l28g2000vba.googlegroups.com>
     <99b5206e-cc35-4022-8a9c-5a6693203cbe@x6g2000prc.googlegroups.com>
     <11b9bcf0-079b-4bde-a43a-d97feb6f9105@s6g2000vbp.googlegroups.com>
NNTP-Posting-Host: 75.191.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1246126025 24370 127.0.0.1 (27 Jun 2009 18:07:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Jun 2009 18:07:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g19g2000yql.googlegroups.com; posting-host=75.191.176.71;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; FunWebProducts; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET
     CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2898
```

```
On Jun 24, 8:56=A0pm, stan <tsanf...@nf.sympatico.ca> wrote:
> On Jun 24, 4:23=A0pm, raypsi <RBorow...@gmail.com> wrote:
>
>
>
>
>
> > On Jun 24, 9:57=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
> > > On Jun 23, 5:22=A0pm, raypsi <RBorow...@gmail.com> wrote:
```

```
>
> > > > On Jun 22, 1:47=A0pm, Stray Dog <qcwa...@sdf.lonestar.org> wrote:
>
> > > > > On Mon, 22 Jun 2009, mikea wrote:
> > > > > > Date: Mon, 22 Jun 2009 10:55:05 -0500
> > > > > > From: mikea <mi...@mikea.ath.cx>
> > > > > > Newsgroups: rec.radio.amateur.homebrew
> > > > > > Subject: Re: Other uses for Microwave oven transformers?
>
> > > > > > Stray Dog <qcwa...@sdf.lonestar.org> wrote in <Pine.NEB.4.64.09=
06221437010.10...@sdf.lonestar.org>:
>
> > > > > > >> In the end, I wound up buying my plate transformers at hamfest=
s and also
> > > > > > >> one, new, made by Hammond in Canada. Peter Dahl is out of busi=
ness, and
> > > > > > >> Ameritron (I think) will sell plate transformers and some are =
reasonably
> > > > > > >> priced for the power and voltage. Fair Radio Sales (Lima, Ohio=
) and
> > > > > > >> Radio-Daze (NY) are two that sell Hammond transformers, includ=
ing large
> > > > > > >> plate transformers (many types, specs all over the map, too).
>
> > > > > > Well, yes, Peter is out of the business, but the transformers a=
nd other
> > > > > > items are still being built to his specs:
>
> > > > > > <http://forums.qrz.com/showthread.php?t=3D153611?
>
> > > > > > <blockquote>
> > > > > > Peter Dahl Company has NOT been sold. It is NOT moving across t=
he border
> > > > > > to Mexico. Gary no longer works for the them. The Peter Dahl Co=
mpany has
> > > > > > stopped production, is closing their doors, and will become par=
t of
> > > > > > Amateur Radio History!
>
> > > > > > But the NAME lives on!
>
> > > > > > Jeff Weinberg, W8CQ of Harbach Electronics, has purchased the r=
ights to
> > > > > > the name, the original transformer and choke specifications and=
 designs,
> > > > > > and the design equipment.
>
> > > > > > The transformers will be built by MagCap Engineering using the =
original
> > > > > > PWD specs, and sold through Harbach Electronics under the Peter=
 Dahl
> > > > > > name. The transformer and chokes will be FOB Canton, MA and shi=
pped
```

```
> > > > > > directly to the customer from MagCap.
>
> > > > > > This is great news for the Amateur Radio Community and a great =
way to
> > > > > > memorialize the Peter Dahl Company who's innovations and design=
s have
> > > > > > brought so much to our hobby.
>
> > > > > > To nullify any further rumors or innuendos about the status or =
future of
> > > > > > the Peter W Dahl Company, let me share the following e-mail wit=
h you
> > > > > > (edited for content)...
>
> > > > > > Quote:
> > > > > > Re: Harbach Electronics and Peter Dahl
> > > > > > From: "Jeff Weinberg W8CQ"
> > > > > > Date: Wed, February 20, 2008 2:30 pm
> > > > > > To: "Dino Darling"
>
> > > > > > Hi Dino,
> > > > > > Yes, the deal is finally completed. I have purchased all of the
> > > > > > transformer
> > > > > > designs and design equipment from Peter Dahl. I am moving the e=
quipment
> > > > > > here to Ohio. Once all of the computer design work has been upd=
ated and
> > > > > > cataloged, I will be selling Peter Dahl transformers and chokes=
.
>
> > > > > > I should be up and running in a couple months.
>
> > > > > > (snip)
>
> > > > > > MagCap will be building the transformers according to the origi=
nal Peter
> > > > > > Dahl designs and specs and will be sold by Harbach Electronics =
under the
> > > > > > Peter W. Dahl name.
>
> > > > > > Regards,
> > > > > > Jeff Weinberg W8CQ
> > > > > > Harbach Electronics
>
> > > > > >http://www.harbachelectronics.com
> > > > > > I've heard great things about Jeff and his company from people =
I know
> > > > > > and respect. To me this is a great day in Amateur Radio and I l=
ook
> > > > > > forward to the future with Peter W Dahl firmly rooted in our ho=
bby!
> > > > > > </blockquote>
>
```

```
> > > > > > --
> > > > > > Mike Andrews, W5EGO
> > > > > > mi...@mikea.ath.cx
> > > > > > Tired old sysadmin
>
> > > > > Thanks for the info. It goes beyond what came out in QST at the t=
ime and
> > > > > that was that production was going to end, period. There was no h=
int at
> > > > > all in the QST anouncement that there was even any possibility fo=
r
> > > > > continuation.
>
> > > > Hey OM:
>
> > > > The only way to do them is to tear them down to the lams re insulat=
e
> > > > the lams and re stack them.
>
> > > > Only because they put weld shunt shorts on the lams that act as
> > > > shorted windings, plus the welds hold the lams together, because th=
ey
> > > > don't interweave them.
>
> > > > 73 OM
> > > > de n8zu- Hide quoted text -
>
> > > > - Show quoted text -
>
> > > I f you can find some of the older ones and they are getting harder t=
o
> > > find you can just knock the shunts out with a hammer and punch. I hav=
e
> > > given some thought to trying cutting the welds out but I haven't had =
a
> > > project lately that I am in that desperate of a need of a
> > > transformer..
>
> > > Jimmie
>
> > Hey OM:
>
> > I grind the shorts off on a grinder with 6 inch diameter grind stones.
> > Then I have to take the burrs off each lam. All the bear metal has to
> > be insulated. Then you can make like Tesla and series 3 transformers.
> > Talk about the air becoming alive. 7500 volts AC will show you how
> > much leakage there is in the air.- Hide quoted text -
>
> > - Show quoted text -
>
> Years ago, to my regret (got fed up with stubbing toes on oversize
> door stop) I dumped a 115 volt input neon sign transformer that was
> capable (IIRC) of some 15,000 volts?
```

> Great big insulators on each end. Probably a few milliamps output.
> Don't see them 'open wired' to the neon signs any more as we did many
> years ago?- Hide quoted text -
>
> - Show quoted text -

The local skating rink uses them. One toasted a couple of moonths ago when someone splashed it with a milkshake.Fire Brigade was called. I noticed the new transformer has a plexiglass cover . They are a lot of fun to play with. I got my hands on one when I was about 12. I made an electric sword with it and an old automotive radio antenna. Touched my brother on the butt with it. I knew it would shock him, I didnt know he would collapse to the ground .My mother always wondered how I made it to adulthood.

Jimmie

```
From 2989106187375806871
X-Google-Thread: a4a23d5f63,2c7c6e1fa70bd76a,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news-out.readnews.com!
transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1243836001@panix.com>
Followup-To: poster
Date: 1 Jul 2009 02:00:02 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 03 Aug 2009 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1246428001@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1246428002 4011 166.84.1.2 (1 Jul 2009 06:00:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 1 Jul 2009 06:00:02 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Xref: g2news2.google.com rec.radio.amateur.antenna:13068 rec.radio.amateur.dx:431
rec.radio.amateur.equipment:1615 rec.radio.amateur.homebrew:2899
```

rec.radio.amateur.misc:4326 rec.radio.amateur.policy:26457
rec.radio.amateur.space:259 rec.radio.info:818

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

From 1703256333827743258
X-Google-Thread: 241b302a50,1eb5281af73fc709,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-06.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: How do on-chip 90 degree phase shifters work?
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <UuQ2m.288556$jp1.80689@en-nntp-06.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Wed, 1 Jul 2009 14:25:07 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2900

Would anyone happen to know how a chip like this one: http://cds.linear.com/docs/Datasheet/5598f.pdf ...manages to generate an internal 90 degree phase shift from an LO input over the very wide range of 5MHz-1600MHz? The data sheet says it uses a "poly-phase phase shifter." I'm guessing... some adjustable analog phase shifters (that can provide up to 90 degrees of phase shift at 5MHz) that are controlled by a feedback loop that's looking to null the product of the LO and the (ostensibly 90 degree shifted) LO?

Seems like this is a bit easier to work with than chips that require 2x or 4x inputs to generate their 90 degree LO shifts!

Anyone have a favorite IQ modulator that'll work on 2m (and perhaps 70cm too)? The data sheet's detail of "industry standard pin-out" would suggest that there are others...

Thanks,
---Joel

From -989085574476008840
X-Google-Thread: 241b302a50,1eb5281af73fc709
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!

news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed3.bellsouth.net!
news.bellsouth.net!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 01 Jul 2009 20:49:03 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: How do on-chip 90 degree phase shifters work?
Newsgroups: rec.radio.amateur.homebrew
References: <UuQ2m.288556$jp1.80689@en-nntp-06.dc1.easynews.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <ju-dnZk1Jr6Sj9HXnZ2dnUVZ_g1i4p2d@web-ster.com>
Date: Wed, 01 Jul 2009 20:49:03 -0500
Lines: 23
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-fv1kUUV1sOOkqDTtbpkcizWSMl0qq60g3qnBIdE/
xAkLykZA7mUTgi0geZjfQ0cZ8T4DR302V8IoI22!+iO6sf9xtsZrKuV/
AEbyzIItL9MWUcSIE61JW6r7eOCWtdoJBvsvGO5IhSvbe0ChfqrnDHzNmgGL!NGX1Ws5ZkZE2RdE=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2901

On Wed, 01 Jul 2009 14:25:07 -0700, Joel Koltner wrote:

> Would anyone happen to know how a chip like this one:
> http://cds.linear.com/docs/Datasheet/5598f.pdf ...manages to generate an
> internal 90 degree phase shift from an LO input over the very wide range
> of 5MHz-1600MHz? The data sheet says it uses a "poly-phase phase
> shifter." I'm guessing... some adjustable analog phase shifters (that
> can provide up to 90 degrees of phase shift at 5MHz) that are controlled
> by a feedback loop that's looking to null the product of the LO and the
> (ostensibly 90 degree shifted) LO?
>
> Seems like this is a bit easier to work with than chips that require 2x
> or 4x inputs to generate their 90 degree LO shifts!
>
> Anyone have a favorite IQ modulator that'll work on 2m (and perhaps 70cm
> too)? The data sheet's detail of "industry standard pin-out" would
> suggest that there are others...

When you find out, let us know...

--
http://www.wescottdesign.com

From -6561805604802540558
X-Google-Thread: 241b302a50,1eb5281af73fc709

```
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!h2g2000yqg.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How do on-chip 90 degree phase shifters work?
Date: Wed, 1 Jul 2009 23:18:23 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <a97cf863-0852-42a9-9ba2-83e4e1cc816d@h2g2000yqg.googlegroups.com>
References: <UuQ2m.288556$jp1.80689@en-nntp-06.dc1.easynews.com>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1246515514 2462 127.0.0.1 (2 Jul 2009 06:18:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 2 Jul 2009 06:18:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h2g2000yqg.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.11)
     Gecko/2009060215 Firefox/3.0.11,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2902
```

On Jul 1, 2:25=A0pm, "Joel Koltner" <zapwireDASHgro...@yahoo.com> wrote:

...

>
> Anyone have a favorite IQ modulator that'll work on 2m (and perhaps 70cm = too)?
> The data sheet's detail of "industry standard pin-out" would suggest that
> there are others...

...

1GG7-4225?? :-)

Of course, there are others from places like Analog Devices, Hittite, Maxim etc.

I'm not sure how they work, but suppose that something similar to what's used for an audio phase shift network for use generating SSB could be used. At RF frequencies, the capacitors would not be large, and clearly it's not terribly difficult to integrate well-matched capacitors (e.g. in ADC converters). Perhaps I can probe some of my contacts to find out more...

Cheers,
Tom

From 3540287312784104655
X-Google-Thread: 241b302a50,1eb5281af73fc709
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-06.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <UuQ2m.288556$jp1.80689@en-nntp-06.dc1.easynews.com> <a97cf863-0852-42a9-9ba2-83e4e1cc816d@h2g2000yqg.googlegroups.com>
Subject: Re: How do on-chip 90 degree phase shifters work?
Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <5q53m.293009$jp1.98094@en-nntp-06.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Thu, 2 Jul 2009 09:40:32 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2903

"K7ITM" <k7itm@msn.com> wrote in message news:a97cf863-0852-42a9-9ba2-83e4e1cc816d@h2g2000yqg.googlegroups.com...
"I'm not sure how they work, but suppose that something similar to what's used for an audio phase shift network for use generating SSB could be used."

I suspect it's actually something a bit simpler in that the LO is supposed to be one frequency (perhaps with harmonics) and not something that moves around quickly (hence the idea that you can just use a feedback loop and track it), whereas with audio you're dealing with a whole bunch of frequencies at once (in a sense) and have to phase-shift them all 90 degree simultaneously.

I was planning on designing (or at least implmenting -- all the real design was by those filter guys decades back) an audio phase shift network, but since you need an IQ (-like) modulator anyway, and since I already needed a microcontroller for this design, I'm thinking these days it's just as easy to perform a Hilbert transform inside the microcontroller and spit out the audio and it's phase-shifted version on two DAC pins and call it good.

---Joel

From 1451620479612187684
X-Google-Thread: 241b302a50,8ec64aca223d28cc,start

```
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
news.mixmin.net!not-for-mail
From: Claude Frantz <r31dmaeu@unibw.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: Z-Match circuit
Date: Fri, 03 Jul 2009 07:27:42 +0200
Organization: Mixmin
Lines: 8
Message-ID: <h2k4sf$gk5$1@news.mixmin.net>
NNTP-Posting-Host: 552bcc9a15548fb1e69131a23a43d60c
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-15; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@mixmin.net
NNTP-Posting-Date: Fri, 3 Jul 2009 05:27:43 +0000 (UTC)
User-Agent: Thunderbird 2.0.0.9 (X11/20071031)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2904

You will find here
http://www.darc.de/distrikte/c/09/Claude/Z-Match.pdf
an article giving more information about the "single coil" Z-Match
circuit. In fact, the "single coil" is actually a coil assembly.

The article is long because it includes many figures.

Best 73 de Claude


From 6427977439712314070
X-Google-Thread: 241b302a50,1eb5281af73fc709
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!x25g2000prf.googlegroups.com!not-for-
mail
From: Roger <sailtamarack@yahoo.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How do on-chip 90 degree phase shifters work?
Date: Fri, 3 Jul 2009 23:25:08 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <93d11638-e352-4a45-b509-8d9924e97e34@x25g2000prf.googlegroups.com>
References: <UuQ2m.288556$jp1.80689@en-nntp-06.dc1.easynews.com>
     <a97cf863-0852-42a9-9ba2-83e4e1cc816d@h2g2000yqg.googlegroups.com>
     <5q53m.293009$jp1.98094@en-nntp-06.dc1.easynews.com>
NNTP-Posting-Host: 24.68.241.23
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1246688709 923 127.0.0.1 (4 Jul 2009 06:25:09 GMT)
```

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 4 Jul 2009 06:25:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x25g2000prf.googlegroups.com; posting-host=24.68.241.23;
     posting-account=dq7g2QkAAABAoYIKdqV_4MCe6upODvjO
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1)
     Gecko/20090624 Firefox/3.5 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2905

Joel,

You might find some answers in these papers:

http://www.eecg.toronto.edu/~kphang/papers/2001/dong_IQphase.pdf

http://www.ee.ucla.edu/~razavi/papers/Conferences/RCICC97_1.pdf

Roger







From 1333581058250056128
X-Google-Thread: 241b302a50,1845b57d5fe6b6e5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!i6g2000yqj.googlegroups.com!not-for-
mail
From: "KD8IMG, Robert Trendel, is a twice convicted stalker of women."
<mopeyzakween@yahoo.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Linear Amplifier Plans 1-16 Pill On DVD
Date: Mon, 6 Jul 2009 08:53:44 -0700 (PDT)
Organization: http://groups.google.com
Lines: 71
Message-ID: <f82eada0-dcb6-4c8b-90b2-de5cb9e8cd6a@i6g2000yqj.googlegroups.com>
References: <4a086abc@x-privat.org> <7a5421ab-79a2-4005-99f9-
e6a812081d17@b1g2000vbc.googlegroups.com>
     <gukl5r$bqb$2@news.mixmin.net>
NNTP-Posting-Host: 72.241.231.67
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1246895624 32756 127.0.0.1 (6 Jul 2009 15:53:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 6 Jul 2009 15:53:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i6g2000yqj.googlegroups.com; posting-host=72.241.231.67;
     posting-account=EYauFwoAAADpgTKtMQl5sSxO0kmxmu9w
```

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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT
     5.1),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:1626
rec.radio.amateur.homebrew:2906

On May 15, 5:00=A0pm, "Roger & Suzanne Nair" <r&sn...@lycos.com> wrote:
> "KD8IMG, Robert Trendel, is a twice convicted stalker of women."<mopeyzak=
w...@yahoo.com> wrote in message
>
> news:7a5421ab-79a2-4005-99f9-e6a812081d17@b1g2000vbc.googlegroups.com...
> On May 11, 2:13 pm, "kc8qjp" <cris...@hotmail.com> wrote:
>
>
>
>
>
> > This is the DVD every CB or Ham Radio Operator has been looking for who
> > likes to build their own Amplifiers.
>
> > 1 to 16 Pill AMP Designs....................
>
> >http://cgi.ebay.com/Linear-Amplifier-Plans-1-16-Pill-On-DVD_W0QQitemZ...
>
> > Description
>
> > Item Specifics - Item Condition
> > Condition: New
>
> > This is the DVD every CB or Ham Radio Operator has been
> > looking for who likes to build their own Amplifiers.
>
> > 1 to 16 Pill AMP Designs
>
> > Step by Step directions
>
> > Full Schematics
>
> > Full Color Pics of step by step build of each Box 1-16
> > pill
>
> > Full Parts List for each Design
>
> > And most important were to by all the parts you need is
> > included.
>
> > This DVD makes it very easy for the Novice to build their
> > Own Box
>
> > This is just plans we are not selling anything but plans
> > on how to build these units and its for Educational Purpose only.
>
> > No Returns or Money back.Each DVD is checked before they
```

~~~
> > are shipped to make sure they work 100%
>
> > begin 666 s.gif
> > M1TE&.#EA`0`!`)'_`/___P```,# P ```"'Y! $```(`+ `````!``$```("
> > $5 $`.P``
> > `
> > end
> > The poster of this message is moparholic at hotmail.com...he is
> > forging a female ham's callsign
>
> Who in their right mind would want to pretend to be kc8qjp crisco kathy??=
?
>
> http://wwwcsif.cs.ucdavis.edu/~loewen/fat-woman.jpg
>
> =A0 I don't want her
> =A0 you can have her
> =A0 she's too fat
> =A0 for me- Hide quoted text -
>
> - Show quoted text -

moparholic is Roger Nair of Winter Brook Dr. in Brunswick, Ohio...just
in case you did not know.


From 7963430911318252735
X-Google-Thread: 241b302a50,1845b57d5fe6b6e5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!h31g2000yqd.googlegroups.com!not-for-
mail
From: "KD8IMG, Robert Trendel, is a twice convicted stalker of women."
<mopeyzakween@yahoo.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Linear Amplifier Plans 1-16 Pill On DVD
Date: Mon, 6 Jul 2009 08:53:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 77
Message-ID: <462b4c3c-2ef3-459d-8897-8e5a2b205612@h31g2000yqd.googlegroups.com>
References: <4a086abc@x-privat.org> <7a5421ab-79a2-4005-99f9-
e6a812081d17@b1g2000vbc.googlegroups.com>
     <gukl5r$bqb$2@news.mixmin.net> <4a0df615@x-privat.org>
NNTP-Posting-Host: 72.241.231.67
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1246895630 32766 127.0.0.1 (6 Jul 2009 15:53:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 6 Jul 2009 15:53:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h31g2000yqd.googlegroups.com; posting-host=72.241.231.67;
~~~

```
     posting-account=EYauFwoAAADpgTKtMQl5sSxO0kmxmu9w
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT
     5.1),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:1627
rec.radio.amateur.homebrew:2907

On May 15, 7:08=A0pm, "Dan Valdez" <dv...@yahoo.com> wrote:
> "Roger & Suzanne Nair" <r&sn...@lycos.com> wrote in messagenews:gukl5r$bq=
b$2@news.mixmin.net...
>
>
>
>
>
> > "KD8IMG, Robert Trendel, is a twice convicted stalker of women."
> > <mopeyzakw...@yahoo.com> wrote in message
> >news:7a5421ab-79a2-4005-99f9-e6a812081d17@b1g2000vbc.googlegroups.com...
> > On May 11, 2:13 pm, "kc8qjp" <cris...@hotmail.com> wrote:
> >> This is the DVD every CB or Ham Radio Operator has been looking for wh=
o
> >> likes to build their own Amplifiers.
>
> >> 1 to 16 Pill AMP Designs...................
>
> >>http://cgi.ebay.com/Linear-Amplifier-Plans-1-16-Pill-On-DVD_W0QQitemZ..=
.
>
> >> Description
>
> >> Item Specifics - Item Condition
> >> Condition: New
>
> >> This is the DVD every CB or Ham Radio Operator has been
> >> looking for who likes to build their own Amplifiers.
>
> >> 1 to 16 Pill AMP Designs
>
> >> Step by Step directions
>
> >> Full Schematics
>
> >> Full Color Pics of step by step build of each Box 1-16
> >> pill
>
> >> Full Parts List for each Design
>
> >> And most important were to by all the parts you need is
> >> included.
>
> >> This DVD makes it very easy for the Novice to build their
> >> Own Box
>
```

```
> >> This is just plans we are not selling anything but plans
> >> on how to build these units and its for Educational Purpose only.
>
> >> No Returns or Money back.Each DVD is checked before they
> >> are shipped to make sure they work 100%
>
> >> begin 666 s.gif
> >> M1TE&.#EA`0`!`)'_`/___P```,# P ```"'Y! $```(`+ `````!``$```("
> >> $5 $`.P``
> >> `
> >> end
>
> >> The poster of this message is moparholic at hotmail.com...he is
> >> forging a female ham's callsign
>
> > Who in their right mind would want to pretend to be kc8qjp crisco kathy=
???
>
> >http://wwwcsif.cs.ucdavis.edu/~loewen/fat-woman.jpg
>
> > =A0I don't want her
> > =A0you can have her
> > =A0she's too fat
> > =A0for me
>
> Is kc8qjp out of prison again?- Hide quoted text -
>
> - Show quoted text -

moparholic is Roger Nair of Winter Brook Dr. in Brunswick, Ohio...just
in case you did not know.


From -2072936766338169985
X-Google-Thread: 241b302a50,1845b57d5fe6b6e5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g1g2000yqh.googlegroups.com!not-for-
mail
From: "KD8IMG, Robert Trendel, is a twice convicted stalker of women."
<mopeyzakween@yahoo.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Linear Amplifier Plans 1-16 Pill On DVD
Date: Mon, 6 Jul 2009 08:54:14 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
Message-ID: <b968e6b7-4688-46ba-b4cb-61526f4bb097@g1g2000yqh.googlegroups.com>
References: <4a086abc@x-privat.org> <7a5421ab-79a2-4005-99f9-
e6a812081d17@b1g2000vbc.googlegroups.com>
     <gukl5r$bqb$2@news.mixmin.net> <4a0df615@x-privat.org> <01d627ca-7c8c-4eda-
a243-c449ed34ca9c@d2g2000pra.googlegroups.com>
NNTP-Posting-Host: 72.241.231.67
```

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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1246895654 11666 127.0.0.1 (6 Jul 2009 15:54:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 6 Jul 2009 15:54:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g1g2000yqh.googlegroups.com; posting-host=72.241.231.67;
     posting-account=EYauFwoAAADpgTKtMQl5sSxO0kmxmu9w
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT
     5.1),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:1628
rec.radio.amateur.homebrew:2908

On May 25, 10:32=A0pm, raypsi <RBorow...@gmail.com> wrote:
> On May 15, 7:08=A0pm, "Dan Valdez" <dv...@yahoo.com> wrote:
>
> > "Roger & Suzanne Nair" <r&sn...@lycos.com> wrote in messagenews:gukl5r$=
bqb$2@news.mixmin.net...
>
> > Is kc8qjp out of prison again?-
>
> Hey OM
>
> She lives in the same area zip code looky the street view a real flag
> waver here:http://tinyurl.com/qnaxzn
>
> 73 OM
> de n8zu

moparholic is Roger Nair of Winter Brook Dr. in Brunswick, Ohio...just
in case you did not know.


From 6247613093738253890
X-Google-Thread: 241b302a50,1845b57d5fe6b6e5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!h18g2000yqj.googlegroups.com!not-for-
mail
From: "KD8IMG, Robert Trendel, is a twice convicted stalker of women."
<mopeyzakween@yahoo.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Linear Amplifier Plans 1-16 Pill On DVD
Date: Mon, 6 Jul 2009 08:54:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 29
Message-ID: <dfce40a8-5abe-4eaa-8587-376eafa7f9e8@h18g2000yqj.googlegroups.com>
References: <4a086abc@x-privat.org> <7a5421ab-79a2-4005-99f9-
e6a812081d17@b1g2000vbc.googlegroups.com>
     <gukl5r$bqb$2@news.mixmin.net> <4a0df615@x-privat.org> <01d627ca-7c8c-4eda-
```

```
a243-c449ed34ca9c@d2g2000pra.googlegroups.com>
     <4a1eb74c$1@x-privat.org>
NNTP-Posting-Host: 72.241.231.67
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1246895663 451 127.0.0.1 (6 Jul 2009 15:54:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 6 Jul 2009 15:54:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h18g2000yqj.googlegroups.com; posting-host=72.241.231.67;
     posting-account=EYauFwoAAADpgTKtMQl5sSxO0kmxmu9w
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT
     5.1),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:1629
rec.radio.amateur.homebrew:2909

On May 28, 12:09=A0pm, "Dan Valdez" <dv...@yahoo.com> wrote:
> "raypsi" <RBorow...@gmail.com> wrote in message
>
> news:01d627ca-7c8c-4eda-a243-c449ed34ca9c@d2g2000pra.googlegroups.com...
> On May 15, 7:08 pm, "Dan Valdez" <dv...@yahoo.com> wrote:
>
> > "Roger & Suzanne Nair" <r&sn...@lycos.com> wrote in
> > messagenews:gukl5r$bqb$2@news.mixmin.net...
>
> > Is kc8qjp out of prison again?-
>
> Hey OM
>
> She lives in the same area zip code looky the street view a real flag
> waver here:http://tinyurl.com/qnaxzn
>
> 73 OM
> de n8zu
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D
>
> It would appear her reputation has been soiled by N8WWM..
>
> http://www.google.com/search?hl=3Den&q=3Dkc8qjp&btnG=3DGoogle+Search&aq=
=3Df&o...

moparholic is Roger Nair of Winter Brook Dr. in Brunswick, Ohio...just
in case you did not know.


From 3925247207522409379
X-Google-Thread: a3e752f117,79edcc041cbde3ae,start
X-Google-Attributes: gida3e752f117,public,usenet
X-Google-NewGroupId: yes
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!news.kjsl.com!
news.alt.net!news.astraweb.com!border5.newsrouter.astraweb.com!
flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
nlpi071.nbdc.sbc.com!flpi144.ffdc.sbc.com.POSTED!9b0b1a69!not-for-mail
From: Anon bozo <anon@bozo.to>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C67772E6007F6A94B08A39AF@news.sf.sbcglobal.net>
Subject: Ham gear (used) cheap
Newsgroups:
rec.radio.amateur,rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.
amateur.homebrew,rec.radio.amateur.misc
Reply-To: anon@bozo.to
Lines: 5
NNTP-Posting-Host: 99.189.171.35
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi144.ffdc.sbc.com 1246897366 ST000 99.189.171.35 (Mon, 06 Jul 2009
12:22:46 EDT)
NNTP-Posting-Date: Mon, 06 Jul 2009 12:22:46 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
FKPGWXCEGJTSSQD[OBCD^VX@WB]^PCPDLXUNNH\KMAVNDQUBLNTC@AWZWDXZXQ[K\FFSKCVM@F_N_DOBWV
WG__LG@VVOIPLIGX\
\BU_B@\P\PFX\B[APHTWAHDCKJF^NHD[YJAZMCY_CWG[SX\Y]^KC\HSZRWSWKGAY_PC[BQ[BXAS\F\
\@DMTLFZFUE@\VL
Date: Mon, 6 Jul 2009 09:22:46 -0700
Xref: g2news2.google.com rec.radio.amateur.antenna:13103
rec.radio.amateur.equipment:1630 rec.radio.amateur.homebrew:2910
rec.radio.amateur.misc:4332

Friend is getting out of amateur:

http://dat7.com/sale/




From -5496228472785322832
X-Google-Thread: 241b302a50,4331d3aa4cb1cc9a,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!c36g2000yqn.googlegroups.com!not-for-
mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Use old microwave cabinets?
Date: Mon, 6 Jul 2009 09:41:08 -0700 (PDT)
Organization: http://groups.google.com
Lines: 5
```

```
Message-ID: <b1038409-08d1-41f6-ab48-5b92cae0b5a6@c36g2000yqn.googlegroups.com>
NNTP-Posting-Host: 142.162.128.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1246898468 9817 127.0.0.1 (6 Jul 2009 16:41:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 6 Jul 2009 16:41:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c36g2000yqn.googlegroups.com; posting-host=142.162.128.246;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2911

Has anyone had the idea of (or actually used) scrapped microwaves as
equipment cabinets for home-brew projects?
Seeing a nice small stainless steel one (physically intact) while at
the garbage dump (tip) other day renewed the thought!
Ideas?



From -7981986746237522212
X-Google-Thread: 241b302a50,1845b57d5fe6b6e5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!b14g2000yqd.googlegroups.com!not-for-
mail
From: "KD8IMG, Robert Trendel, is a twice convicted stalker of women."
<mopeyzakween@yahoo.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Linear Amplifier Plans 1-16 Pill On DVD
Date: Mon, 6 Jul 2009 16:16:36 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <29c464d6-bafa-47f5-8aa4-cc7dad39045c@b14g2000yqd.googlegroups.com>
References: <4a086abc@x-privat.org> <7a5421ab-79a2-4005-99f9-
e6a812081d17@b1g2000vbc.googlegroups.com>
     <gukl5r$bqb$2@news.mixmin.net> <a9c9d1f1-38b6-412c-
ac2c-1a351959a2b9@d19g2000prh.googlegroups.com>
NNTP-Posting-Host: 72.241.231.67
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1246922200 23024 127.0.0.1 (6 Jul 2009 23:16:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 6 Jul 2009 23:16:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b14g2000yqd.googlegroups.com; posting-host=72.241.231.67;
     posting-account=EYauFwoAAADpgTKtMQl5sSxO0kmxmu9w
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
     Trident/4.0),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:1639
rec.radio.amateur.homebrew:2912

On May 25, 10:26=A0pm, raypsi <RBorow...@gmail.com> wrote:
> On May 15, 5:00=A0pm, "Roger & Suzanne Nair" <r&sn...@lycos.com> wrote:
>
> > "KD8IMG, Robert Trendel, is a twice convicted stalker of women."<mopeyz=
akw...@yahoo.com> wrote in message
>
> Hey OM
>
> He's got a heck of a tower if you looky at this street view here:http://t=
inyurl.com/pw6fyl
> And a gr8t privacy fence.
>
> 73 OM
> de n8zu

moparholic is Roger Nair of Winter Brook Dr. in Brunswick,
Ohio...just
in case you did not know. He is the person posing as KC8QJP.




From -2541244841911060595
X-Google-Thread: 241b302a50,1845b57d5fe6b6e5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!b9g2000yqm.googlegroups.com!not-for-
mail
From: "KD8IMG, Robert Trendel, is a twice convicted stalker of women."
<mopeyzakween@yahoo.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Linear Amplifier Plans 1-16 Pill On DVD
Date: Mon, 6 Jul 2009 16:16:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 57
Message-ID: <fb5071eb-4a7e-43d2-9487-b196aa11d0eb@b9g2000yqm.googlegroups.com>
References: <4a086abc@x-privat.org>
NNTP-Posting-Host: 72.241.231.67
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1246922213 5095 127.0.0.1 (6 Jul 2009 23:16:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 6 Jul 2009 23:16:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b9g2000yqm.googlegroups.com; posting-host=72.241.231.67;
     posting-account=EYauFwoAAADpgTKtMQl5sSxO0kmxmu9w
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
     Trident/4.0),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:1640
rec.radio.amateur.homebrew:2913

On May 11, 2:13=A0pm, "kc8qjp" <cris...@hotmail.com> wrote:
> This is the DVD every CB or Ham Radio Operator has been looking for who
> likes to build their own Amplifiers.
>
> 1 to 16 Pill AMP Designs...................
>
> http://cgi.ebay.com/Linear-Amplifier-Plans-1-16-Pill-On-DVD_W0QQitemZ...
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Description
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0Item Specifics - Item Cond=
ition
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Condition=
: =A0New
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 This is the DVD every CB or Ham Radio=
 Operator has been
> looking for who likes to build their own Amplifiers.
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 1 to 16 Pill AMP Designs
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Step by Step directions
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Full Schematics
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Full Color Pics of step by step build=
 of each Box 1-16
> pill
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Full Parts List for each Design
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 And most important were to by all the=
 parts you need is
> included.
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 This DVD makes it very easy for the N=
ovice to build their
> Own Box
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 This is just plans we are not selling=
 anything but plans
> on how to build these units and its for Educational Purpose only.
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 No Returns or Money back.Each DVD is =
checked before they
> are shipped to make sure they work 100%
>
> begin 666 s.gif
> M1TE&.#EA`0`!`)'_`/___P```,# P ```"'Y! $```(`+ `````!``$```("
> $5 $`.P``
> `
> end
```

moparholic is Roger Nair of Winter Brook Dr. in Brunswick,
Ohio...just
in case you did not know. He is the person posing as KC8QJP.

```
From -8849753877984335230
X-Google-Thread: 241b302a50,4331d3aa4cb1cc9a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!3b5fc0bf!not-for-
mail
From: "Paul P" <REMOVE paul @ REMOVE ppinyot . REMOVEcom>
Newsgroups: rec.radio.amateur.homebrew
References: <b1038409-08d1-41f6-ab48-5b92cae0b5a6@c36g2000yqn.googlegroups.com>
In-Reply-To: <b1038409-08d1-41f6-ab48-5b92cae0b5a6@c36g2000yqn.googlegroups.com>
Subject: Re: Use old microwave cabinets?
Lines: 20
Organization: www.ppinyot.com
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18005
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18005
Message-ID: <npy4m.1239$P5.754@nwrddc02.gnilink.net>
Date: Tue, 07 Jul 2009 02:28:35 GMT
NNTP-Posting-Host: 96.236.156.213
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1246933715 96.236.156.213 (Mon, 06 Jul 2009 22:28:35
EDT)
NNTP-Posting-Date: Mon, 06 Jul 2009 22:28:35 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2914
```

I can think of one use if the shields/seals are intact. As a prototype RF
"silence" cage for testing noisy or low noise amps and such. Perhaps that
Hash generating switching supply or bubble jet printer. The fan should help
keep the gear cool.

What would a Steampunker do with one???
This for example:

http://forums.sketchucation.com/viewtopic.php?f=291&t=18097&p=149778

Paul P.

"terry" <tsanford@nf.sympatico.ca> wrote in message
news:b1038409-08d1-41f6-ab48-5b92cae0b5a6@c36g2000yqn.googlegroups.com...

> Has anyone had the idea of (or actually used) scrapped microwaves as
> equipment cabinets for home-brew projects?
> Seeing a nice small stainless steel one (physically intact) while at
> the garbage dump (tip) other day renewed the thought!
> Ideas?

```
From -7650674325106328894
X-Google-Thread: a4a23d5f63,93ceb600815cbe45,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1244354701@panix.com>
Followup-To: poster
Date: 7 Jul 2009 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 09 Aug 2009 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1246946700@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1246946701 19427 166.84.1.2 (7 Jul 2009 06:05:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 7 Jul 2009 06:05:01 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news2.google.com rec.radio.amateur.antenna:13118 rec.radio.amateur.dx:436
rec.radio.amateur.equipment:1642 rec.radio.amateur.homebrew:2915
rec.radio.amateur.misc:4333 rec.radio.amateur.policy:26467 rec.radio.info:831

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/
```

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

From 1122542450935001 28
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!newsfeed.straub-nv.de!feeder.eternal-september.org!eternal-september.org!newsfeed1.swip.net!newsfeed1.funet.fi!newsfeeds.funet.fi!feeder1.news.saunalahti.fi!uutiset.elisa.fi!7564ea0f!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Use old microwave cabinets?
Message-ID: <omt5551aobcsghuuvi1ujj38gm2ovu0fd7@4ax.com>
References: <b1038409-08d1-41f6-ab48-5b92cae0b5a6@c36g2000yqn.googlegroups.com> <npy4m.1239$P5.754@nwrddc02.gnilink.net>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 12
Date: Tue, 07 Jul 2009 10:21:45 +0300

NNTP-Posting-Host: 85.77.233.139
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1246951304 85.77.233.139 (Tue, 07 Jul 2009 10:21:44
EEST)
NNTP-Posting-Date: Tue, 07 Jul 2009 10:21:44 EEST
Organization: Elisa Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:2916

On Tue, 07 Jul 2009 02:28:35 GMT, "Paul P" <REMOVE paul @ REMOVE
ppinyot . REMOVEcom> wrote:

>I can think of one use if the shields/seals are intact. As a prototype RF
>"silence" cage for testing noisy or low noise amps and such.

This may be of interest if you are building 13 cm equipment, but since
the seals are usually resonant traps tuned to 2450 MHz, the
attenuation on other frequencies can be quite low.

Paul OH3LWR

From 3772201454398804788
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed3.bellsouth.net!
news.bellsouth.net!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 07 Jul 2009 11:13:00 -0500
From: Prashant <Prashant.4992986@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ExpressPCB to Gerber file converter?
Date: Tue, 7 Jul 2009 12:22:00 +0100
Message-ID: <Prashant.4992986@radiobanter.com>
Organization: RadioBanter.com
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
Lines: 32
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-YoTrPrxdjqu6tuqh1P3779cx/uwXhwjJMSclwCImqU8J+wSPMpUlqHFSiA/
KB8S1GRRoURfIJ3adE5t!BJexwP6ctZHt/
mclUNLuSQYOEXJ4IduUTQqZAot90l2ltUMNWhukbkuLjbEwDGD8J7UFOkaYCyQB!oHXCjg==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Lines: 22
Xref: g2news2.google.com rec.radio.amateur.homebrew:2917

Leland C. Scott;680414 Wrote:
> Does anybody have or know where to get a utility to convert from

> ExpressPCB
> file format to a standard Gerber file? If not any info on the file
> format
> itself?
>
>
> --
> Regards;
>
> Leland C. Scott
> KC8LDO
>
> "The most reliable components are
> the ones you leave out."
>
> By Gordon Bell, father of the
> minicomputer at DEC.

Hi !
you can save your files in form of PS.
Most PCB manufacturer accept this format also.
Or I can Offer you the service (Only $ 25).
It is also possible to convert PS file to gerber file this will solve
your problem.

--
Prashant

```
From 948763477344665655
X-Google-Thread: 241b302a50,4331d3aa4cb1cc9a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!n11g2000yqb.googlegroups.com!not-for-
mail
From: stan <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Use old microwave cabinets?
Date: Tue, 7 Jul 2009 12:14:57 -0700 (PDT)
Organization: http://groups.google.com
Lines: 25
Message-ID: <5ff470e3-0131-4678-9fbd-246c9460fc68@n11g2000yqb.googlegroups.com>
References: <b1038409-08d1-41f6-ab48-5b92cae0b5a6@c36g2000yqn.googlegroups.com>
     <npy4m.1239$P5.754@nwrddc02.gnilink.net>
<omt5551aobcsghuuvi1ujj38gm2ovu0fd7@4ax.com>
NNTP-Posting-Host: 142.162.128.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
```

```
X-Trace: posting.google.com 1246994097 20173 127.0.0.1 (7 Jul 2009 19:14:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 7 Jul 2009 19:14:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n11g2000yqb.googlegroups.com; posting-host=142.162.128.246;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2918

On Jul 7, 5:21=A0am, Paul Keinanen <keina...@sci.fi> wrote:
> On Tue, 07 Jul 2009 02:28:35 GMT, "Paul P" <REMOVE paul @ REMOVE
>
> ppinyot . REMOVEcom> wrote:
> >I can think of one use if the shields/seals are intact. =A0As a prototyp=
e RF
> >"silence" cage for testing noisy or low noise amps and such. =A0
>
> This may be of interest if you are building 13 cm equipment, but since
> the seals are usually resonant traps tuned to 2450 MHz, the
> attenuation on other frequencies can be quite low.
>
> Paul OH3LWR

Paul: That's interesting  2450 megs being around 12.2 centimetres
wavelength????
I'd alway thought they were just some sort of RF seal along edges of
the case!
Never thought about that whie repairing several except to get the
seals correctly back in place.
Thanks for the comment.
However my original thought was that an old microwave; because
frequently dumped when they go wrong due to a) Cost of labour, skills
and tools are needed for repair, and b) New ones can be bought
cheaply; is a ready made cabinet for some home brew project?


From -2802207722638473954
X-Google-Thread: 241b302a50,7cf082ab35213984,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
news.musoftware.de!wum.musoftware.de!fu-berlin.de!uni-berlin.de!news.dfncis.de!
not-for-mail
From: markus wolfgart <markus.wolfgart@dlr.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: Help need to identify some electronic parts.
Date: Wed, 08 Jul 2009 12:28:00 +0200
Lines: 12
Message-ID: <7bjal0F235biiU1@mid.dfncis.de>
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset=ISO-8859-15; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.dfncis.de C8BMJYSwJaA+Qm/svZnu+wGCvYWxWMU4RcWP7aMjD/H2zQ5P3UmtZ0FxjT
Cancel-Lock: sha1:3Okl6yPFl7sAMnSxQi9Esa+ggZ8=
User-Agent: Thunderbird 2.0.0.22 (Windows/20090605)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2919
```

Dear YL's/XYL's and OM's, ;-)

could you give me some hints concerning the listed parts listed under my url http://www.dl8mby.de/eparts/unknownparts.html or better show me a link where to find a data sheet of them.

Many thanks in advance.

Markus
DL8MBY

```
From -6378002302132470432
X-Google-Thread: 241b302a50,7cf082ab35213984
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <7bjal0F235biiU1@mid.dfncis.de>
Subject: Re: Help need to identify some electronic parts.
Lines: 6
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <3G25m.30$N5.8@nwrddc01.gnilink.net>
Date: Wed, 08 Jul 2009 15:10:55 GMT
NNTP-Posting-Host: 173.55.76.253
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1247065855 173.55.76.253 (Wed, 08 Jul 2009 11:10:55
EDT)
NNTP-Posting-Date: Wed, 08 Jul 2009 11:10:55 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2920
X-Original-Bytes: 1199
```

All but the last appear to be oscillators modules. Part #3 is a 19.44 MHz. All I can tell you beyond that is Google, Google, Google. I could tell you more by the end of the day for $200.

From 6771606625449622718
X-Google-Thread: 241b302a50,1eb5281af73fc709
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-06.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <UuQ2m.288556$jp1.80689@en-nntp-06.dc1.easynews.com> <a97cf863-0852-42a9-9ba2-83e4e1cc816d@h2g2000yqg.googlegroups.com> <5q53m.293009$jp1.98094@en-nntp-06.dc1.easynews.com> <93d11638-e352-4a45-b509-8d9924e97e34@x25g2000prf.googlegroups.com>
Subject: Re: How do on-chip 90 degree phase shifters work?
Lines: 3
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <Jla5m.337199$jp1.216659@en-nntp-06.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Wed, 8 Jul 2009 16:55:20 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2921

Thanks Roger, Dong's paper there was quite useful.

From 8023799285961544043
X-Google-Thread: 241b302a50,7cf082ab35213984
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!news-1.dfn.de!news.dfn.de!fu-berlin.de!uni-berlin.de!news.dfncis.de!not-for-mail
From: markus wolfgart <markus.wolfgart@dlr.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Help need to identify some electronic parts.

Date: Thu, 09 Jul 2009 09:26:35 +0200
Lines: 28
Message-ID: <7blkcqF23kui1U1@mid.dfncis.de>
References: <7bjal0F235biiU1@mid.dfncis.de> <3G25m.30$N5.8@nwrddc01.gnilink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.dfncis.de RBIYsTVs/1R+zFGVJDYMUQybbBOKNNdk6rsb2XWVGFzvUsCUC3PkPSrhbw
Cancel-Lock: sha1:jkaj1ZaMlQwoT4FNJczEHlOLq44=
User-Agent: Thunderbird 2.0.0.22 (Windows/20090605)
In-Reply-To: <3G25m.30$N5.8@nwrddc01.gnilink.net>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2922

Dear JB,

I will give you some suitable answer concerning some of the mentioned
parts for free, due to the ham spirit ;-)

Part #1: Skyworks 2Gc PIN attenuator.
Part #2: ALPS VXCO (Freq. ?)
Part #3: Delta XCO 19.44Mc
Part #4: Corning VXCO 52Mc
Part #5: probably SAW filter from Temex
Part #6-8: are Filters

In general I know what these parts are, but would like to find some
data sheet when using them in later prrojects as i get not just one
but a big amount of them.

Markus
DL8MBY

JB schrieb:
> All but the last appear to be oscillators modules. Part #3 is a 19.44 MHz.
> All I can tell you beyond that is Google, Google, Google. I could tell you
> more by the end of the day for $200.
>
>
>

From 5646189717681723 52
X-Google-Thread: 241b302a50,7cf082ab35213984
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>

From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <7bjal0F235biiU1@mid.dfncis.de> <3G25m.30$N5.8@nwrddc01.gnilink.net>
<7blkcqF23kui1U1@mid.dfncis.de>
Subject: Re: Help need to identify some electronic parts.
Lines: 75
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <J7q5m.240$N5.222@nwrddc01.gnilink.net>
Date: Thu, 09 Jul 2009 17:52:41 GMT
NNTP-Posting-Host: 96.229.49.251
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1247161961 96.229.49.251 (Thu, 09 Jul 2009 13:52:41
EDT)
NNTP-Posting-Date: Thu, 09 Jul 2009 13:52:41 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2923

"markus wolfgart" <markus.wolfgart@dlr.de> wrote in message
news:7blkcqF23kui1U1@mid.dfncis.de...
> Dear JB,
>
> I will give you some suitable answer concerning some of the mentioned
> parts for free, due to the ham spirit ;-)
>
> Part #1: Skyworks 2Gc PIN attenuator.
> Part #2: ALPS VXCO (Freq. ?)
> Part #3: Delta XCO 19.44Mc
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> Part #5: probably SAW filter from Temex
> Part #6-8: are Filters
>
> In general I know what these parts are, but would like to find some
> data sheet when using them in later prrojects as i get not just one
> but a big amount of them.
>
> Markus
> DL8MBY
>
>
>
> JB schrieb:
> > All but the last appear to be oscillators modules. Part #3 is a 19.44
MHz.
> > All I can tell you beyond that is Google, Google, Google. I could tell
you
> > more by the end of the day for $200.

> >
In the past when working on a synthesized data receiver module with a dead Ref Osc, I spent several hours tracking down such data from various websites in order to find a suitable replacement. Fortunately I had a customer to pay for the time spent because going off the clock would have meant a loss of earnings (and reduced tax contribution). Unfortunately, the company I was contracted with retained the information (or not) and I was unable to because of contract agreements.

The unit was mission critical in the automation of transportation and handling of Mega-Tons of grain for import and export of food staples on a massive scale and time was of the essence or the unit probably would have been scrapped.

I have long noted the value of Ham Radio for dealing with many natural and man made disasters, but the impact of economic disasters seems to have been completely ignored and underestimated. Capitalism has forged a monetary system as a common means of exchange between parties with different skill sets and even of different and widely separated areas and locations. Without a common and mutually beneficial monetary system, we would not have gotten beyond the most basic of trade, instead relying on the hunter-gatherer model even for our water. Those who were able to grow food from their location could not trade very far away because of spoilage, and because it would take them away from tending the farm. Communism must resort to extreme intimidation in order to co-exist with GREED - a common human frailty throughout the World. Indeed, greed is so universal, that it inevitably becomes one of the ultimate motivations in any power struggle. Indeed the naive concept of Communism is impossible because it isn't sustainable, instead morphing into a form of authoritarian exploitation of the productive members of society as a robber class sharpens its skills at deriving support from the productive class, inevitably resulting in slavery of the productive.

An agreed upon world-wide and secure system of exchange is vital to any system of sharing goods, resources, expertise and knowledge.   The collective threats against such a system tends to limit our ability to sustain a widespread and far-flung high standard of living. Although it doesn't guarantee that greed won't have a negative impact, we need to realize that greed isn't something that any system has been able rule out.

So Sir, in the spirit of Ham Radio, do it yourself and enjoy the thrill of your own accomplishment and self-reliance.

Jim

```
From -8360987635679503773
X-Google-Thread: 241b302a50,7cf082ab35213984
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
```

```
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 09 Jul 2009 15:55:45 -0500
Date: Thu, 09 Jul 2009 21:55:43 +0100
From: highlandham <rfburns@nospam.com>
User-Agent: Thunderbird 2.0.0.19 (X11/20090424)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Help need to identify some electronic parts.
References: <7bjal0F235biiU1@mid.dfncis.de> <3G25m.30$N5.8@nwrddc01.gnilink.net>
<7blkcqF23kui1U1@mid.dfncis.de> <J7q5m.240$N5.222@nwrddc01.gnilink.net>
In-Reply-To: <J7q5m.240$N5.222@nwrddc01.gnilink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <PNCdncBMh5vMxMvXnZ2dnUVZ8hCdnZ2d@pipex.net>
Lines: 81
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 88.111.53.207
X-Trace:
sv3-70h4611uuZ9JaPnGLCXmmGPk809fqpI3ZOZ3mocZ+MqF6RreXgDZ9VDOmXDJHLjUcvg0S7KmYLd9+F
b!OrZ8uMNb4g1EQir6sKwWxfP4aZOBFfIZ0/gtXdonfAzEgUHD6V2o25Tt/sw5PBLqP3z1uef5LFsU!
twkCAXRAl+gxDiNouurCmerGug==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 5082
Xref: g2news2.google.com rec.radio.amateur.homebrew:2924

JB wrote:
> "markus wolfgart" <markus.wolfgart@dlr.de> wrote in message
> news:7blkcqF23kui1U1@mid.dfncis.de...
>> Dear JB,
>>
>> I will give you some suitable answer concerning some of the mentioned
>> parts for free, due to the ham spirit ;-)
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>> Part #5: probably SAW filter from Temex
>> Part #6-8: are Filters
>>
>> In general I know what these parts are, but would like to find some
>> data sheet when using them in later prrojects as i get not just one
>> but a big amount of them.
>>
>> Markus
>> DL8MBY
>>
```

>>
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> MHz.
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> of earnings (and reduced tax contribution). Unfortunately, the company I
> was contracted with retained the information (or not) and I was unable to
> because of contract agreements.
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> handling of Mega-Tons of grain for import and export of food staples on a
> massive scale and time was of the essence or the unit probably would have
> been scrapped.
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> man made disasters, but the impact of economic disasters seems to have been
> completely ignored and underestimated. Capitalism has forged a monetary
> system as a common means of exchange between parties with different skill
> sets and even of different and widely separated areas and locations.
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> gotten beyond the most basic of trade, instead relying on the
> hunter-gatherer model even for our water. Those who were able to grow food
> from their location could not trade very far away because of spoilage, and
> because it would take them away from tending the farm. Communism must
> resort to extreme intimidation in order to co-exist with GREED - a common
> human frailty throughout the World. Indeed, greed is so universal, that it
> inevitably becomes one of the ultimate motivations in any power struggle.
> Indeed the naive concept of Communism is impossible because it isn't
> sustainable, instead morphing into a form of authoritarian exploitation of
> the productive members of society as a robber class sharpens its skills at
> deriving support from the productive class, inevitably resulting in slavery
> of the productive.
>
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> system of sharing goods, resources, expertise and knowledge.   The
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> sustain a widespread and far-flung high standard of living. Although it
> doesn't guarantee that greed won't have a negative impact, we need to
> realize that greed isn't something that any system has been able rule out.
>
> So Sir, in the spirit of Ham Radio, do it yourself and enjoy the thrill of
> your own accomplishment and self-reliance.
>
> Jim
>

==
My reply to the above would be just :
1)Amen
2) Long live the 'real' spirit of Ham Radio

Frank GM0CSZ / KN6WH

From 8944666838915854644
X-Google-Thread: 241b302a50,7cf082ab35213984
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!k19g2000yqn.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Help need to identify some electronic parts.
Date: Fri, 10 Jul 2009 01:33:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 124
Message-ID: <d66d89ba-908c-48ab-b38c-5a9fe6786abd@k19g2000yqn.googlegroups.com>
References: <7bjal0F235biiU1@mid.dfncis.de> <3G25m.30$N5.8@nwrddc01.gnilink.net>
     <7blkcqF23kui1U1@mid.dfncis.de> <J7q5m.240$N5.222@nwrddc01.gnilink.net>
     <PNCdncBMh5vMxMvXnZ2dnUVZ8hCdnZ2d@pipex.net>
NNTP-Posting-Host: 76.226.206.226
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1247214810 17970 127.0.0.1 (10 Jul 2009 08:33:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 10 Jul 2009 08:33:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k19g2000yqn.googlegroups.com; posting-host=76.226.206.226;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.0.11)
     Gecko/2009060309 Ubuntu/9.04 (jaunty) Firefox/3.0.11,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2925

On Jul 9, 4:55=A0pm, highlandham <rfbu...@nospam.com> wrote:
> JB wrote:
> > "markus wolfgart" <markus.wolfg...@dlr.de> wrote in message
> >news:7blkcqF23kui1U1@mid.dfncis.de...
> >> Dear JB,
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> >> DL8MBY
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> > pay for the time spent because going off the clock would have meant a l=
oss
> > of earnings (and reduced tax contribution). =A0Unfortunately, the compa=
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> > was contracted with retained the information (or not) and I was unable =
to
> > because of contract agreements.
>
> > The unit was mission critical in the automation of transportation and
> > handling of Mega-Tons of grain for import and export of food staples on=
 a
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>
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> > man made disasters, but the impact of economic disasters seems to have =
been
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> > sets and even of different and widely separated areas and locations.
> > Without a common and mutually beneficial monetary system, we would not =
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> > gotten beyond the most basic of trade, instead relying on the
> > hunter-gatherer model even for our water. =A0Those who were able to gro=
```

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> > from their location could not trade very far away because of spoilage, =
and
> > because it would take them away from tending the farm. =A0Communism mus=
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> > resort to extreme intimidation in order to co-exist with GREED - a comm=
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> > human frailty throughout the World. =A0Indeed, greed is so universal, t=
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> > Indeed the naive concept of Communism is impossible because it isn't
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> > deriving support from the productive class, inevitably resulting in sla=
very
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>
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> > system of sharing goods, resources, expertise and knowledge. =A0 The
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 it
> > doesn't guarantee that greed won't have a negative impact, we need to
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>
> > So Sir, in the spirit of Ham Radio, do it yourself and enjoy the thrill=
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> > Jim
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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> My reply to the above would be just :
> 1)Amen
> 2) Long live the 'real' spirit of Ham Radio
>
> Frank =A0GM0CSZ / KN6WH

Hey OM:

Nothing like agreeing with somebody that wants $200, then gives us a
lecture on the fine points of the worlds greatest style of gubermint:
communism.
I like trolls they live under the bridge just like me. And trolls
abound everywhere because there's lots of people that like them.
Long live the Queen and her trolls.

Looks like markus gots a load of parts from a cordless phone

manufacturer. Likely they are cordless phones that were made in a
former communist country.

73 OM
de n8zu

From -3918220107400007860
X-Google-Thread: 241b302a50,7cf082ab35213984
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
news.dfncis.de!not-for-mail
From: markus wolfgart <markus.wolfgart@dlr.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Help need to identify some electronic parts.
Date: Fri, 10 Jul 2009 13:13:09 +0200
Lines: 98
Message-ID: <7bom1kF246k50U1@mid.dfncis.de>
References: <7bjal0F235biiU1@mid.dfncis.de> <3G25m.30$N5.8@nwrddc01.gnilink.net>
     <7blkcqF23kui1U1@mid.dfncis.de> <J7q5m.240$N5.222@nwrddc01.gnilink.net>
     <PNCdncBMh5vMxMvXnZ2dnUVZ8hCdnZ2d@pipex.net> <d66d89ba-908c-48ab-
b38c-5a9fe6786abd@k19g2000yqn.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.dfncis.de 7f0NdYS8i98cmJlyTR5E+g7zg1iAPsorZGKkV0+/usli8n5VfcgMm3XUUJ
Cancel-Lock: sha1:mm++IVGyypcaCBMvBcvnae+F/wk=
User-Agent: Thunderbird 2.0.0.22 (Windows/20090605)
In-Reply-To: <d66d89ba-908c-48ab-b38c-5a9fe6786abd@k19g2000yqn.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2926

Hi Raypsi, ;-)

you are quite right, I got a black box of parts for cheap.
I had separate all the Analag Device beauties from the rest
and looking for data of the remain.

Thanks a lot for halp conversation and entertainment ;-)

Bye
Markus

DL8MBY

raypsi schrieb:
> On Jul 9, 4:55 pm, highlandham <rfbu...@nospam.com> wrote:
>> JB wrote:
>>> "markus wolfgart" <markus.wolfg...@dlr.de> wrote in message
>>> news:7blkcqF23kui1U1@mid.dfncis.de...
>>>> Dear JB,
>>>> I will give you some suitable answer concerning some of the mentioned

>>>> parts for free, due to the ham spirit ;-)
>>>> Part #1: Skyworks 2Gc PIN attenuator.
>>>> Part #2: ALPS VXCO (Freq. ?)
>>>> Part #3: Delta XCO 19.44Mc
>>>> Part #4: Corning VXCO 52Mc
>>>> Part #5: probably SAW filter from Temex
>>>> Part #6-8: are Filters
>>>> In general I know what these parts are, but would like to find some
>>>> data sheet when using them in later prrojects as i get not just one
>>>> but a big amount of them.
>>>> Markus
>>>> DL8MBY
>>>> JB schrieb:
>>>>> All but the last appear to be oscillators modules. Part #3 is a 19..44
>>> MHz.
>>>>> All I can tell you beyond that is Google, Google, Google. I could tell
>>> you
>>>>> more by the end of the day for $200.
>>> In the past when working on a synthesized data receiver module with a dead
>>> Ref Osc, I spent several hours tracking down such data from various websites
>>> in order to find a suitable replacement. Fortunately I had a customer to
>>> pay for the time spent because going off the clock would have meant a loss
>>> of earnings (and reduced tax contribution). Unfortunately, the company I
>>> was contracted with retained the information (or not) and I was unable to
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>>> system as a common means of exchange between parties with different skill
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>>> Without a common and mutually beneficial monetary system, we would not have
>>> gotten beyond the most basic of trade, instead relying on the
>>> hunter-gatherer model even for our water. Those who were able to grow food
>>> from their location could not trade very far away because of spoilage, and
>>> because it would take them away from tending the farm. Communism must
>>> resort to extreme intimidation in order to co-exist with GREED - a common
>>> human frailty throughout the World. Indeed, greed is so universal, that it
>>> inevitably becomes one of the ultimate motivations in any power struggle.
>>> Indeed the naive concept of Communism is impossible because it isn't
>>> sustainable, instead morphing into a form of authoritarian exploitation of
>>> the productive members of society as a robber class sharpens its skills at
>>> deriving support from the productive class, inevitably resulting in slavery
>>> of the productive.
>>> An agreed upon world-wide and secure system of exchange is vital to any
>>> system of sharing goods, resources, expertise and knowledge.   The
>>> collective threats against such a system tends to limit our ability to
>>> sustain a widespread and far-flung high standard of living. Although it
>>> doesn't guarantee that greed won't have a negative impact, we need to
>>> realize that greed isn't something that any system has been able rule out.

```
>>> So Sir, in the spirit of Ham Radio, do it yourself and enjoy the thrill of
>>> your own accomplishment and self-reliance.
>>> Jim
>> ========================================
>> My reply to the above would be just :
>> 1)Amen
>> 2) Long live the 'real' spirit of Ham Radio
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>> Frank  GM0CSZ / KN6WH
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>
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>
> Looks like markus gots a load of parts from a cordless phone
> manufacturer. Likely they are cordless phones that were made in a
> former communist country.
>
> 73 OM
> de n8zu


From 1568977875840897312
X-Google-Thread: 241b302a50,12dda802caeed290
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-03.dc1.easynews.com.POSTED!not-for-mail
From: "Roger (K8RI)" <validaddress@my.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: So I have all this old radio equipment...
Message-ID: <osfg55t841u9clpftcvcun7dmfcvfvurao@4ax.com>
References: <d35bedeb-809c-4156-945c-e02e80aa2061@h2g2000yqg.googlegroups.com>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 49
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Sat, 11 Jul 2009 03:37:12 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2927

On Wed, 17 Jun 2009 08:09:52 -0700 (PDT), Jake
```

<mechanicaljake@gmail.com> wrote:

>Hey all,
>
>Many years ago (Late 80's) I was given a variety of radio equipment
>from a gentleman I knew. He was going to new guinea as a missionary
>and gave me a bunch of parts/projects/stuff.
>
>I have identified one of the (transcievers?) as an ARC-5. Also there

I have absolutely no idea as to what they are going for now days.

ARC5's that we used to get for just a couple of bucks if not free are
now (in some areas sought after) There is a museum down in Texas that
is rebuilding old aircraft. They have the only flying B29 in the world
that I know of. Another might be the Experimental Aircraft Association
http://www.eaa.org/ They might know of some rebuilders interested and
give you a tax write off.

Of course there is always E-Bay. do a search on ARC-5 and see what
they are going for on there.

I have no idea as to how many of those I cut up for parts 30 or 40
years ago. I do know that the antique aircraft rebuilders are looking
for them.

73 and good luck,

>is at least 2 more of these in parts, maybe more. Also a bunch of
>variable capacitors (the air-core metal finned ones) and various tubes
>and coils and other random stuff.
>
>This stuff has been sitting in my attic for 20 years, slowly
>collecting dust and corrosion. A long time ago, I was going to get my
>general class license. I never took the test, and just don't have much
>hobby time anymore.

BTW, I wonder if your attic is close to mine (Midland Michigan)<:-))
>
>Does anyone know if this equipment is worth identifying and posting
>somewhere for sale/trade? And if so, where would I find people
>interested in this stuff?
>
>Thanks in advance :-D

From -8741667471055995158
X-Google-Thread: 241b302a50,8d37a1ae03eddab
X-Google-Attributes: gid241b302a50,public,usenet

```
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!t21g2000yqi.googlegroups.com!not-for-
mail
From: Eugene <aeonscii@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Uncle Ruport Is back in the news
Date: Sat, 11 Jul 2009 10:18:59 -0700 (PDT)
Organization: http://groups.google.com
Lines: 54
Message-ID: <7dad5dc8-d44c-48f4-bcb6-fb1ecffbca83@t21g2000yqi.googlegroups.com>
References: <f4d8acd9-21e8-4d06-a8c9-95122f9cf2e9@s31g2000vbp.googlegroups.com>
NNTP-Posting-Host: 71.93.190.132
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1247332740 22721 127.0.0.1 (11 Jul 2009 17:19:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 11 Jul 2009 17:19:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t21g2000yqi.googlegroups.com; posting-host=71.93.190.132;
     posting-account=IQux-AoAAAA9OpUWCwDE2Cb6BnPv4VqC
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; GTB5; MySpace;; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET
     CLR 3.5.30729; .NET CLR 1.1.4322; MySpace;),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2928

We, The People: outspoken and disenchanted with conservative views
once again find the liberals back in the news. WAKE UP! ! ! The dreams
passed  you bye. Another round for the Democrats?
>
> Uncle Ruport has been a schewd Sat Pirate. His many names were 2old
> 4this,dexter,squeem well he told me he had 8 guys keeping his 450
> pirate sites updated with new files! Nagravision was never hacked it
> was simply furnished by him to his pirate sat sites to make his goal
> of owning the satellite empire!
>
> He did so with finess ,after purchasing AT&T he put his oldest son in
> biz with AT&Tamp and sent him back to Australia,
> because of his religous convoctions!
> His yougest son Sir James was pulled out of law school at Harvard to
> fill the void and put in command of NDS.This gave Uncle Ruport free
> time to exploit the North American market.After becoming an American
> citizen Uncle Ruport was allowed to buy DTV.
> After Uncle Ruport dominated the Satellite biz he started to dabble
> in the internet of which he owns or has control of everything that
> goes on his World Wide Webb of deception including microsoft !!
>
> His pirate shops have came a long way from selling timed released
> files and cards to having a controling interest in FTA/DVB compatible
> STBs.
> His interest in Thompson Electronics and their ability to provide
> hardware to suit his fancy was merely the tip of the iceburg.He
> phased the DTV hack out of biz and blamed it on a change in their
> encryption..This was not reality just technobabble.
>
> Nagravision has never changed to NAG 2 nor
> NAG3 because the encrytion was never a danger to satellite PTV. After
> buying and selling DTV to John Malone there was a binding agreement
> not to release DTV/DSS files or else he would have to pay dearly.His
> plea agreement with Canal Plus has given John Malone the upper hand.
> The pirates dont know what went on they just swallowed the new
> encryption farse!
>
> Now Uncle Ruport is full speed ahead now with pushing IKS /DVB
> boxes .However he has to phase out his so called NAG2..Which is
> nothing more than dissabling the ppv channels in his files and
> blaming it on the new NAG 3 farse.
> During this dissabling of channels on the current STBs and still
> offering them on his IKS connection has sent the pirates into a
> buying freenzy.
> His IKS is florishing out of control$$$ He has gone as for as to
> delete the old files ,back when all the channels were included.So
> smart people wont realize how he is pushing his IKS connection.
> However there is a few that has realized what he was up to and has a
> stache of old files to fall back on!
>
> =A0and the show goes on
>
> Wheres My $5mil UNK ?



From 5957033898214844206
X-Google-Thread: 241b302a50,7cf082ab35213984
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <7bjal0F235biiU1@mid.dfncis.de> <3G25m.30$N5.8@nwrddc01.gnilink.net>
<7blkcqF23kui1U1@mid.dfncis.de> <J7q5m.240$N5.222@nwrddc01.gnilink.net>
<PNCdncBMh5vMxMvXnZ2dnUVZ8hCdnZ2d@pipex.net> <d66d89ba-908c-48ab-
b38c-5a9fe6786abd@k19g2000yqn.googlegroups.com>
Subject: Re: Help need to identify some electronic parts.
Lines: 147
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
```

```
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <ron6m.789$N5.403@nwrddc01.gnilink.net>
Date: Sun, 12 Jul 2009 15:34:47 GMT
NNTP-Posting-Host: 173.55.34.164
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1247412887 173.55.34.164 (Sun, 12 Jul 2009 11:34:47
EDT)
NNTP-Posting-Date: Sun, 12 Jul 2009 11:34:47 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2929

"raypsi" <RBorowiak@gmail.com> wrote in message
news:d66d89ba-908c-48ab-b38c-5a9fe6786abd@k19g2000yqn.googlegroups.com...
On Jul 9, 4:55 pm, highlandham <rfbu...@nospam.com> wrote:
> JB wrote:
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> >news:7blkcqF23kui1U1@mid.dfncis.de...
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> >> Part #3: Delta XCO 19.44Mc
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>
> >> Markus
> >> DL8MBY
>
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> >>> All but the last appear to be oscillators modules. Part #3 is a 19.44
> > MHz.
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> > In the past when working on a synthesized data receiver module with a
dead
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websites
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```

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of
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>
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>
> ==
> My reply to the above would be just :
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> Frank GM0CSZ / KN6WH

Hey OM:

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I like trolls they live under the bridge just like me. And trolls abound everywhere because there's lots of people that like them.
Long live the Queen and her trolls.

Looks like markus gots a load of parts from a cordless phone manufacturer. Likely they are cordless phones that were made in a former communist country.

73 OM
de n8zu

Unfortunately, outside of a small group of experimenters these parts are pretty much worthless. It is difficult enough to market finished products that consumers will shell out for. Very few will decide to conceive of, design and build a useful finished product based on a randomly acquired handful of parts. I actually stopped charging for repair parts so that I won't have to spend so much time and grievous effort into accounting and reporting for a resale license. I simply bid for Labor.

My advice would be to cut and paste specifications and part description and application summary into a text file and put them up on a website and submit them to a search engine for anyone that might be interested. I have noticed that some forums are regularly googled.

We could probably dispense with using the word "communist" because it is just a word. Lets just realize that greed for free stuff can lure us into slavery, because there are people who would make promises to lure the gullible into slavery.

With all the talk these days of "stimulus", it is my bet that most of the money went to buying votes and pet projects that will have no positive effect on economic recovery. It reminds me of Pharaoh contracting obelisks and monuments so that peoples attention will be diverted from building their own businesses, while Pharaoh consolidates his power through building the empire. The slaves will work and be happy for a time, and when the projects reach their fruitless conclusion they will have to look for work again. In my book this is exploitation. Didn't we learn anything from the "New Deal"?

```
From -457023216123928920
X-Google-Thread: 241b302a50,c608ad1117674384,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q35g2000vbi.googlegroups.com!not-for-
mail
From: spamhog <n1jpr@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: DIY/COTS PTO drive  -  ideas?
Date: Sun, 12 Jul 2009 13:46:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 39
Message-ID: <d5d7c235-ee07-43f3-9fcf-a222712ad5d1@q35g2000vbi.googlegroups.com>
NNTP-Posting-Host: 78.14.232.55
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1247431606 30816 127.0.0.1 (12 Jul 2009 20:46:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 12 Jul 2009 20:46:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q35g2000vbi.googlegroups.com; posting-host=78.14.232.55;
	posting-account=tuTwjgoAAABgsw0HP7EbLMV3yMd8jh4C
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.64 (Windows NT 5.1; U; en) Presto/
2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2930
```

I'm looking for ideas for sliding a ~2" ferrite core in and out of a coil. I've seen ways of tuning over a small range by means of a brass screw used as core. I need smtg better than that, with repeatable positioning and smooth movement.

Some ideas:

- micrometric screw:
use a preexisting screw taken from old depth gauge or bought standalone
PRO calibrated, demoltiplicated, high resolution position readout
CON expensive if new, still need to invent a way to fasten ferrite core to spindle, screw protudes.

- screw drive from scratch:
PRO can be taylored, can use knob with 360deg scale, turns determined by screw pitch - say 0-100 over 360deg @ 20 turns/inch produces 8,000 divisions over 2" linear displacement (if with vernier reaches 80,000), may use knob with turns counter
CON quite complicated to design, may reguire machining and searching for pieces.

- wire drive, like in old radios
PRO can reuse hardware like in old radio, if scale is linear-motion
the tuning indicator is directly attached to ferrite plunger
CON may suffer backlash, hardware disappearing, very short scale.

I only saw very rough solutions, such as gravity pulled ferrite in vertical coil, or using brass screw directly as core for small band coverage. No idea if there's some promising and available type of surplus drive.

Any ideas? Any plans anywhere for DIY? Kits???

(again, I _did_ see use of a small brass screw w/o ferrite!).

R & TIA

Filippo N1JPR

```
From -3242879437162169692
X-Google-Thread: 241b302a50,7a9317c4b5213fa5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!y10g2000prf.googlegroups.com!not-for-
mail
From: Eugene <aeonscii@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transceiver mod
Date: Sun, 12 Jul 2009 16:08:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <87ec74a1-3087-4537-a6d6-ea85ee5cb3ce@y10g2000prf.googlegroups.com>
References: <53d65d2e-49fd-4852-9695-e5389b985f3c@r33g2000yqn.googlegroups.com>
     <4bdue6-fn4.ln1@mail.specsol.com>
<8e14c33f-91c6-44f0-9ce4-2a6c8e587ff1@m19g2000yqk.googlegroups.com>
     <BUfTl.861$Cc1.158@nwrddc01.gnilink.net> <18f74751-d1d1-4cb3-b0d2-
deead7a58fa6@37g2000yqp.googlegroups.com>
     <lpzTl.1098$Cc1.481@nwrddc01.gnilink.net> <4eb5fa09-1da5-4ea2-b31e-
f59dacecfa9a@z7g2000vbh.googlegroups.com>
     <V-qdnWv_TJz7V7_XnZ2dnUVZ_hZi4p2d@bright.net>
NNTP-Posting-Host: 71.93.190.132
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1247440094 25161 127.0.0.1 (12 Jul 2009 23:08:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 12 Jul 2009 23:08:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y10g2000prf.googlegroups.com; posting-host=71.93.190.132;
     posting-account=IQux-AoAAAA9OpUWCwDE2Cb6BnPv4VqC
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.0; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2931

Here's using your head! 1KWH required for licensing within two miles
of an airport??? Within the US amateurs experiment.


On May 31, 11:20=A0am, Scott <acepilotREM...@bloomer.net> wrote:
> raypsi wrote:
> > =A0 Like checking the swimming pool to see if there is water in it
> >> first.
>
> > Hey OM:
>
> > My swimming pool is Lake Erie, be a long time for it to dry out.
>
> > 73 OM
> > de n8zu
>
> Isn't that like swimming in a cesspool? =A0Isn't that the most polluted o=
f
> the Great Lakes? =A0I live near Lake Superior...water looks clean but it'=
s
> damn cold (but the icebergs do give you a nice place to get out and rest
> on the swim from Ashland (WI) to Thunder Bay, Ontario) ;)
>
> Scott
> N0EDV



From -8358768287107845236
X-Google-Thread: 241b302a50,4331d3aa4cb1cc9a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f30g2000vbf.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Use old microwave cabinets?
Date: Sun, 12 Jul 2009 20:02:00 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <a1a44135-52b0-4259-a689-985344563922@f30g2000vbf.googlegroups.com>
References: <b1038409-08d1-41f6-ab48-5b92cae0b5a6@c36g2000yqn.googlegroups.com>
     <npy4m.1239$P5.754@nwrddc02.gnilink.net>
<omt5551aobcsghuuvi1ujj38gm2ovu0fd7@4ax.com>
     <5ff470e3-0131-4678-9fbd-246c9460fc68@n11g2000yqb.googlegroups.com>
NNTP-Posting-Host: 76.226.206.226
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
```

Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1247454120 1353 127.0.0.1 (13 Jul 2009 03:02:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 13 Jul 2009 03:02:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f30g2000vbf.googlegroups.com; posting-host=76.226.206.226;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.0.11)
     Gecko/2009060309 Ubuntu/9.04 (jaunty) Firefox/3.0.11,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2932

Hey OM:

Microwave ovens are built for a price, the cheaper the better. The chinesse have alot of crap out there. Even the fans are junk. I mean who uses a shaded pole syncro motor for a fan these days, power hungry junk. Best you could get out of a microwave oven is the metal cabinet can be cut up with scissors, that's right, dollar store scissors, will cut the sheet metal they use on microwave ovens. And with a good brake you can make a lot of project boxes.

Well stainless steel project boxes would look sweet.

73 OM
de n8zu

From -3008273702277918498
X-Google-Thread: da6537b9fb,7bb0f9e4b643a968,start
X-Google-Attributes: gidda6537b9fb,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!solaris.cc.vt.edu!
news.vt.edu!elk.ncren.net!usenet01.sei.cmu.edu!pitt.edu!egsner!news.cirr.com!
mcalhoun
From: Myron A. Calhoun <mcalhoun@freeshell.org>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.amateur.boatanchors
Subject: Anybody want Swan SWR-1A faceplate or internal workings?
Date: Mon, 13 Jul 2009 16:40:58 +0000 (UTC)
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 20
Distribution: usa
Message-ID: <h3fo2q$332$1@chessie.cirr.com>
NNTP-Posting-Host: norge.freeshell.org
X-Trace: chessie.cirr.com 1247503258 3170 192.94.73.3 (13 Jul 2009 16:40:58 GMT)
X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Mon, 13 Jul 2009 16:40:58 +0000 (UTC)
Summary: Free for shippin
Keywords: meter faceplate, swr sensor

User-Agent: nn/6.7.3
Xref: g2news2.google.com rec.radio.amateur.homebrew:2933 rec.radio.amateur.antenna:13178 rec.radio.amateur.boatanchors:3138

Crossposted to rec.radio.amateur.homebrew, rec.radio.amateur.antenna, and rec.radio.amateur.boatanchors

I wanted a dual-meter voltmeter to mount atop an LDG battery booster to continuously indicate input and output voltages, so I rebuilt an old SWAN Electronics SWR-1A meter and now have the faceplate and the internal SWR sensor unit left over.

I'll mail (without charge in the USA) the faceplate to the first person who wants to restore hizer scratched-up SWR-1A faceplate.

Although it weighs less than five ounces, the sensor unit is obviously a bit bulkier (about 5" x 2" x 1.5") than the flat faceplate!-) It includes two integrally-mounted SO-239 connectors, two diodes, two resistors, two capacitors, the dual pot and its knob, and the really-sturdy sensor (but NOT the two 100 microamp meters which I used in my project!-), all connected as they were in the original unit. If someone wants it, it should mail well and shouldn't take too much postage.

--73, W0PBV at ARRL dot net

From -6843238151268253006
X-Google-Thread: 241b302a50,c608ad1117674384
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f30g2000vbf.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DIY/COTS PTO drive - ideas?
Date: Mon, 13 Jul 2009 11:09:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <9dc707f6-5b0a-4c7c-a7e4-00a451191efd@f30g2000vbf.googlegroups.com>
References: <d5d7c235-ee07-43f3-9fcf-a222712ad5d1@q35g2000vbi.googlegroups.com>
NNTP-Posting-Host: 76.226.206.226
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1247508589 16091 127.0.0.1 (13 Jul 2009 18:09:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 13 Jul 2009 18:09:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f30g2000vbf.googlegroups.com; posting-host=76.226.206.226;
    posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.0.11)

Gecko/2009060309 Ubuntu/9.04 (jaunty) Firefox/3.0.11,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2934

Hey OM:

Brass is the old way to lower inductance. I like to use bismuth the
best metal for lowering inductance of a coil. There's no way that a
low power signal can cut thru bismuth.
And you can increase range by using tapered cone shaped slugs, and
centripetal casting is a lead pipe cinch with bismuth that melts at
271 degrees C.

I got a hold of sum 10 gram bismuth cylindrical slugs for like a buck
a piece. Really sweet for PTO and RF front ends. Depending on the size
of coil you have to match the right N150 to N750 capacitor, to
compensate for inductive temp drift. Or stick it in a small temp
controlled oven.
Or the new age method use AFC or PLL to catch the drift.

73 OM
de n8zu

From 6863948112461238197
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!l5g2000vbp.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DIY/COTS PTO drive - ideas?
Date: Mon, 13 Jul 2009 12:32:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 42
Message-ID: <8de4eb79-f749-4399-ba29-12e90f332e1b@l5g2000vbp.googlegroups.com>
References: <d5d7c235-ee07-43f3-9fcf-a222712ad5d1@q35g2000vbi.googlegroups.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1247513529 6423 127.0.0.1 (13 Jul 2009 19:32:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 13 Jul 2009 19:32:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l5g2000vbp.googlegroups.com; posting-host=170.121.14.12;
posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB6;
.NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2935

On Jul 12, 4:46=A0pm, spamhog <n1...@hotmail.com> wrote:
> I'm looking for ideas for sliding a ~2" ferrite core in and out of a

> coil. =A0I've seen ways of tuning over a small range by means of a brass
> screw used as core. I need smtg better than that, with repeatable
> positioning and smooth movement.
>
> Some ideas:
>
> - micrometric screw:
> use a preexisting screw taken from old depth gauge or bought
> standalone
> PRO calibrated, demoltiplicated, high resolution position readout
> CON expensive if new, still need to invent a way to fasten ferrite
> core to spindle, screw protudes.
>
> - screw drive from scratch:
> PRO can be taylored, can use knob with 360deg scale, turns determined
> by screw pitch - say 0-100 over 360deg @ 20 turns/inch produces 8,000
> divisions over 2" linear displacement (if with vernier reaches
> 80,000), may use knob with turns counter
> CON quite complicated to design, may reguire machining and searching
> for pieces.

Something that I thought always looked promising - but which I've
never used in a PTO - are the old floppy drives that used a Acme-style
gear rod driven by a stepper motor to slide the head back and forth
across the floppies. Most 8" floppy drives meet this description, but
only a few 5" floppies did (most 5" floppy drives use a steel band to
do the positioning).

The floppy head assembly had a set of nuts with some anti-backlash
springs. I would think that many of the parts would be quite useful
for a homebrew PTO drive.

Don't knock the "good enough" approach. The crude brass-rod-screw-and-
a-few-brass-nuts scheme used by KD1JV and others for a VFO is really
very usable, especially if you put a big 2" tuning knob on it, but for
portable use a smaller knob works without quite the smooth feeling.
It's not something that will let you cover a 0.5MHz band linearly, but
it will give you very nice coverage of for example a CW-subband.

Tim.

From 5587368514661768264
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!o6g2000yqj.googlegroups.com!not-for-mail
From: spamhog <n1jpr@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DIY/COTS PTO drive - ideas?
Date: Wed, 15 Jul 2009 07:09:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 36
Message-ID: <f4b3adea-df5b-4cca-aa50-8454c41214bb@o6g2000yqj.googlegroups.com>

```
References: <d5d7c235-ee07-43f3-9fcf-a222712ad5d1@q35g2000vbi.googlegroups.com>
NNTP-Posting-Host: 78.14.232.55
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1247666980 2654 127.0.0.1 (15 Jul 2009 14:09:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 15 Jul 2009 14:09:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o6g2000yqj.googlegroups.com; posting-host=78.14.232.55;
     posting-account=tuTwjgoAAABgsw0HP7EbLMV3yMd8jh4C
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.64 (Windows NT 5.1; U; en) Presto/
2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2936
```

Thank you all around!

I need to make an update.

If one keeps the slug travel requirement to 1" (which isn't bad at all, even for a broad-range PTO) and is willing to use an "outside" micrometer (for thickness/diameter) it's a different game: micrometric screws become really cheap! Bear in mind that repositioning trumps absolute precision, so cheap isn't perforce bad. You can get a 0-1" micrometer for well under $10, i.e. generally cheaper than depth micrometers and in the ballpark for axial slow motion drives with scales.

You can't directly drill holes in the base for front panel mounting, as you can do in depth gauges, but the arch that positions the reference surface opposite to the screw can be cut / drilled and used for securing the device internally. Many models have screw-fastened plastic grips and may not need drilling. Also, by securing it well inside the front panel, the protrusion of the screw can be reduced.

On ebay, this search produces drossfree results:
outside micrometer -electronic -digital -laser -stage -depth -internal
-bore -torque -caliper -lea* -marking

I'll experiment with supergluing a bit of ferrite to a micrometric screw tip with a bit of acrylic dowel in between.

On Jul 12, 8:46=A0pm, spamhog <n1...@hotmail.com> wrote:

> - micrometric screw:
> use a preexisting screw taken from old depth gauge or bought
> standalone
> PRO calibrated, demoltiplicated, high resolution position readout
> CON expensive if new, still need to invent a way to fasten ferrite
> core to spindle, screw protudes.

```
From 6450425855034713561
X-Google-Thread: 241b302a50,4331d3aa4cb1cc9a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!j12g2000vbl.googlegroups.com!not-for-
mail
From: stan <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Use old microwave cabinets?
Date: Wed, 15 Jul 2009 19:52:48 -0700 (PDT)
Organization: http://groups.google.com
Lines: 27
Message-ID: <7bae619a-1f0a-4975-b139-3ef106070062@j12g2000vbl.googlegroups.com>
References: <b1038409-08d1-41f6-ab48-5b92cae0b5a6@c36g2000yqn.googlegroups.com>
     <npy4m.1239$P5.754@nwrddc02.gnilink.net>
<omt5551aobcsghuuvi1ujj38gm2ovu0fd7@4ax.com>
     <5ff470e3-0131-4678-9fbd-246c9460fc68@n11g2000yqb.googlegroups.com>
     <a1a44135-52b0-4259-a689-985344563922@f30g2000vbf.googlegroups.com>
NNTP-Posting-Host: 142.162.128.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1247712768 19757 127.0.0.1 (16 Jul 2009 02:52:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 16 Jul 2009 02:52:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j12g2000vbl.googlegroups.com; posting-host=142.162.128.246;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2937

On Jul 13, 1:02=A0am, raypsi <RBorow...@gmail.com> wrote:
> Hey OM:
>
> Microwave ovens are built for a price, the cheaper the better. The
> Chinese have a lot of crap out there. Even the fans are junk. I mean
> who uses a shaded pole syncro motor for a fan these days, power hungry
> junk. Best you could get out of a microwave oven is the metal cabinet
> can be cut up with scissors, that's right, dollar store scissors, will
> cut the sheet metal they use on microwave ovens. And with a good brake
> you can make a lot of project boxes.
>
> Well stainless steel project boxes would look sweet.
>
> 73 OM
> de n8zu

Yup somebody gave me a stainless four section container which appears
to be unused and from an old fashioned ice-cream parlour/soda
```

fountain. There is also a single container, same depth and height etc.
And there is a nice rim around the open ends to which a front panel
could fastened!
Immediately thought of ready-made small equipment cabinets!
Scrapping a bunch of old microwaves is what raised the question of a
reuse for the cabinets. We had a school cafeteria operation one time
with three or four m.waves in use for short periods, on several
occasions was able to scrap older ones for parts for repairs. Now just
junk lying around!

From 3065778291410512906
X-Google-Thread: 241b302a50,837c4841cac42ce5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
gnilink.net!nx01.iad01.newshosting.com!newshosting.com!216.196.98.140.MISMATCH!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 22 May 2009 23:13:32 -0500
From: Myron <Myron.45d2d4d@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Free "lofer" Radio Scrap Books
Date: Sat, 23 May 2009 04:14:34 +0100
Message-ID: <Myron.45d2d4d@radiobanter.com>
Organization: RadioBanter.com
References: <de7ae273-95a4-483a-b484-fa92eb613813@h28g2000yqd.googlegroups.com>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
KVSsn9KiWQvjtCw414b4yEQnnBoKTDiQynqviAijo2FYGyHrnN8EZ96+43QnWDqQHmzQaLM/BflfGdc!
SFCYSmf7cqRBjBwpm2dH7cmh3bQRcwdLczWBYE9+n1Ja2iOkrf0F7WGnhL9eetRC3MTI/NVZExKu!Hg==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Lines: 8
X-Original-Bytes: 1485
Xref: g2news2.google.com rec.radio.amateur.homebrew:2732

Myron A. Calhoun;672124 Wrote:
> I'm finally admitting there are some interesting aspects of radio that
> I'm not going to live long enough to get around to, so I'll send the
> following ...:
> The low and medium frequency radio scrap book
> Addendum '77/'78 for thr low and medium radio....
> both "From the Editors of ham radio/Ken Cornell, W2IMB"
> ...snip...

I'm happy to say that the above have been taken!
--W0PBV

--
Myron

```
From 995190361091590900
X-Google-Thread: 241b302a50,8d37a1ae03eddab,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s31g2000vbp.googlegroups.com!not-for-
mail
From: joeturn <joeturn2000@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Uncle Ruport Is back in the news
Date: Sat, 23 May 2009 11:17:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 59
Message-ID: <f4d8acd9-21e8-4d06-a8c9-95122f9cf2e9@s31g2000vbp.googlegroups.com>
NNTP-Posting-Host: 24.95.252.127
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1243102636 29783 127.0.0.1 (23 May 2009 18:17:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 23 May 2009 18:17:16 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s31g2000vbp.googlegroups.com; posting-host=24.95.252.127;
     posting-account=TOBUfggAAAC5Ow7sgid-1fbF1N9O6T1h
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0; .NET
     CLR 2.0.50727; yie8),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2733
```

The Nagravision3 Farse Exposed

Uncle Ruport has been a schewd Sat Pirate. His many names were 2old 4this,dexter,squeem well he told me he had 8 guys keeping his 450 pirate sites updated with new files! Nagravision was never hacked it was simply furnished by him to his pirate sat sites to make his goal of owning the satellite empire!

He did so with finess ,after purchasing AT&T he put his oldest son in biz with AT&Tamp and sent him back to Australia,
because of his religous convoctions!

His yougest son Sir James was pulled out of law school at Harvard to fill the void and put in command of NDS.This gave Uncle Ruport free time to exploit the North American market.After becoming an American citizen Uncle Ruport was allowed to buy DTV.
After Uncle Ruport dominated the Satellite biz he started to dabble in the internet of which he owns or has control of everything that goes on his World Wide Webb of deception including microsoft !!

His pirate shops have came a long way from selling timed released files and cards to having a controling interest in FTA/DVB compatible STBs.
His interest in Thompson Electronics and their ability to provide hardware to suit his fancy was merely the tip of the iceburg.He phased the DTV hack out of biz and blamed it on a change in their encryption..This was not reality just technobabble.

Nagravision has never changed to NAG 2 nor
NAG3 because the encrytion was never a danger to satellite PTV. After buying and selling DTV to John Malone there was a binding agreement not to release DTV/DSS files or else he would have to pay dearly.His plea agreement with Canal Plus has given John Malone the upper hand.
The pirates dont know what went on they just swallowed the new encryption farse!

Now Uncle Ruport is full speed ahead now with pushing IKS /DVB boxes .However he has to phase out his so called NAG2..Which is nothing more than dissabling the ppv channels in his files and blaming it on the new NAG 3 farse.
During this dissabling of channels on the current STBs and still offering them on his IKS connection has sent the pirates into a buying freenzy.
His IKS is florishing out of control$$$ He has gone as for as to delete the old files ,back when all the channels were included.So smart people wont realize how he is pushing his IKS connection.
However there is a few that has realized what he was up to and has a stache of old files to fall back on!

and the show goes on

Wheres My $5mil UNK ?

```
From -577871585868978353
X-Google-Thread: 241b302a50,1845b57d5fe6b6e5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
```

```
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!d19g2000prh.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Linear Amplifier Plans 1-16 Pill On DVD
Date: Mon, 25 May 2009 19:26:11 -0700 (PDT)
Organization: http://groups.google.com
Lines: 12
Message-ID: <a9c9d1f1-38b6-412c-ac2c-1a351959a2b9@d19g2000prh.googlegroups.com>
References: <4a086abc@x-privat.org> <7a5421ab-79a2-4005-99f9-
e6a812081d17@b1g2000vbc.googlegroups.com>
     <gukl5r$bqb$2@news.mixmin.net>
NNTP-Posting-Host: 76.226.206.226
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1243304771 16528 127.0.0.1 (26 May 2009 02:26:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 May 2009 02:26:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d19g2000prh.googlegroups.com; posting-host=76.226.206.226;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.04506.648; .NET CLR 3.5.21022; .NET CLR
     3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:1560
rec.radio.amateur.homebrew:2734
```

On May 15, 5:00=A0pm, "Roger & Suzanne Nair" <r&sn...@lycos.com> wrote:
> "KD8IMG, Robert Trendel, is a twice convicted stalker of women."<mopeyzak=
w...@yahoo.com> wrote in message

Hey OM

He's got a heck of a tower if you looky at this street view here:
http://tinyurl.com/pw6fyl
And a gr8t privacy fence.

73 OM
de n8zu

```
From -3322206565399869520
X-Google-Thread: 241b302a50,1845b57d5fe6b6e5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!d2g2000pra.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
```

```
Subject: Re: Linear Amplifier Plans 1-16 Pill On DVD
Date: Mon, 25 May 2009 19:32:01 -0700 (PDT)
Organization: http://groups.google.com
Lines: 15
Message-ID: <01d627ca-7c8c-4eda-a243-c449ed34ca9c@d2g2000pra.googlegroups.com>
References: <4a086abc@x-privat.org> <7a5421ab-79a2-4005-99f9-
e6a812081d17@b1g2000vbc.googlegroups.com>
     <gukl5r$bqb$2@news.mixmin.net> <4a0df615@x-privat.org>
NNTP-Posting-Host: 76.226.206.226
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1243305121 17694 127.0.0.1 (26 May 2009 02:32:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 May 2009 02:32:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d2g2000pra.googlegroups.com; posting-host=76.226.206.226;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.04506.648; .NET CLR 3.5.21022; .NET CLR
     3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:1561
rec.radio.amateur.homebrew:2735

On May 15, 7:08=A0pm, "Dan Valdez" <dv...@yahoo.com> wrote:
> "Roger & Suzanne Nair" <r&sn...@lycos.com> wrote in messagenews:gukl5r$bq=
b$2@news.mixmin.net...

>
> Is kc8qjp out of prison again?-

Hey OM

She lives in the same area zip code looky the street view a real flag
waver here:
http://tinyurl.com/qnaxzn

73 OM
de n8zu



From 3109584697966986485
X-Google-Thread: 241b302a50,7a9317c4b5213fa5,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r33g2000yqn.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Transceiver mod
Date: Tue, 26 May 2009 16:51:00 -0700 (PDT)
```

```
Organization: http://groups.google.com
Lines: 7
Message-ID: <53d65d2e-49fd-4852-9695-e5389b985f3c@r33g2000yqn.googlegroups.com>
NNTP-Posting-Host: 75.191.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1243381860 26766 127.0.0.1 (26 May 2009 23:51:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 May 2009 23:51:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r33g2000yqn.googlegroups.com; posting-host=75.191.176.71;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
     3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2736

I have an HF transceiver which can be easily modified to work outside
the ham bands. I want to perform the mod so I can use the radio with
VHF/UHF transverters and cover the entire bands. Would this be legal?
I have discussed this with several fellow hams but have not really got
any kind of definitive answer yet.

Jimmie.


From -7748872352234270846
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!m19g2000yqk.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transceiver mod
Date: Tue, 26 May 2009 17:25:14 -0700 (PDT)
Organization: http://groups.google.com
Lines: 27
Message-ID: <50cb4682-a6b2-494d-94e7-b1b857303d97@m19g2000yqk.googlegroups.com>
References: <53d65d2e-49fd-4852-9695-e5389b985f3c@r33g2000yqn.googlegroups.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1243383914 1379 127.0.0.1 (27 May 2009 00:25:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 May 2009 00:25:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m19g2000yqk.googlegroups.com; posting-host=192.25.240.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.10)
     Gecko/2009042316 Firefox/3.0.10,gzip(gfe),gzip(gfe)
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:2737

On May 26, 4:51=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> I have an HF transceiver which can be easily modified to work outside
> the ham bands. I want to perform the mod so I can use the radio with
> VHF/UHF transverters and cover the entire bands. Would this be legal?
> I have discussed this with several fellow hams but have not really got
> any kind of definitive answer yet.
>
> Jimmie.

Assuming you're in a country where the governing agency lets hams build their own equipment for operation on ham bands, what could possibly be wrong with it? So long as you use modes, powers and frequencies for which you're licensed, and you transmit an appropriately clean signal, who's going to have any problem? You could, of course, get into trouble quickly if you transmit a signal on frequencies you're not licensed to use. Where I am, at least, I can legally build RF power generating equipment for any frequency I want, so long as I don't use it to transmit unauthorized signals. (My RF signal generator is capable of putting out enough power to get me into trouble all the way from kHz to several GHz if I connect it to an antenna, but that's not what I use it for. I've even been using it with a broadband 100 watt amplifier lately, and I'm not at all worried about the legalities, since the power goes into a dummy load where it's turned to heat.)

Cheers,
Tom

```
From 17933104859442196
X-Google-Thread: 241b302a50,7a9317c4b5213fa5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!24dd0da6!not-for-mail
Sender: Jim Pennino <jimp@mail.specsol.com>
Message-ID: <4bdue6-fn4.ln1@mail.specsol.com>
From: jimp@specsol.spam.sux.com
Subject: Re: Transceiver mod
Newsgroups: rec.radio.amateur.homebrew
References: <53d65d2e-49fd-4852-9695-e5389b985f3c@r33g2000yqn.googlegroups.com>
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (SunOS/5.10 (i86pc))
Lines: 18
Date: Wed, 27 May 2009 00:30:02 GMT
NNTP-Posting-Host: 71.118.11.57
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1243384202 71.118.11.57 (Tue, 26 May 2009 20:30:02 EDT)
```

```
NNTP-Posting-Date: Tue, 26 May 2009 20:30:02 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2738
X-Original-Bytes: 1461

JIMMIE <JIMMIEDEE123@yahoo.com> wrote:
> I have an HF transceiver which can be easily modified to work outside
> the ham bands. I want to perform the mod so I can use the radio with
> VHF/UHF transverters and cover the entire bands. Would this be legal?
> I have discussed this with several fellow hams but have not really got
> any kind of definitive answer yet.
>
> Jimmie.

As a licensed amateur (I'm assuming US), you can do anything you want
with your equipment as long as you don't transmit outside of the
frequencies and modes authorized by your class of license.



--
Jim Pennino

Remove .spam.sux to reply.



From -6638749341749792078
X-Google-Thread: 241b302a50,7a9317c4b5213fa5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!m19g2000yqk.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transceiver mod
Date: Tue, 26 May 2009 18:24:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <8e14c33f-91c6-44f0-9ce4-2a6c8e587ff1@m19g2000yqk.googlegroups.com>
References: <53d65d2e-49fd-4852-9695-e5389b985f3c@r33g2000yqn.googlegroups.com>
     <4bdue6-fn4.ln1@mail.specsol.com>
NNTP-Posting-Host: 75.191.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1243387449 12202 127.0.0.1 (27 May 2009 01:24:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 May 2009 01:24:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m19g2000yqk.googlegroups.com; posting-host=75.191.176.71;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
     3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2739

On May 26, 8:30=A0pm, j...@specsol.spam.sux.com wrote:
> JIMMIE <JIMMIEDEE...@yahoo.com> wrote:
> > I have an HF transceiver which can be easily modified to work outside
> > the ham bands. I want to perform the mod so I can use the radio with
> > VHF/UHF transverters and cover the entire bands. Would this be legal?
> > I have discussed this with several fellow hams but have not really got
> > any kind of definitive answer yet.
>
> > Jimmie.
>
> As a licensed amateur (I'm assuming US), you can do anything you want
> with your equipment as long as you don't transmit outside of the
> frequencies and modes authorized by your class of license.
>
> --
> Jim Pennino
>
> Remove .spam.sux to reply.

Thanks Tom and Jim, It was also my reasoning that if I could build my
own transmitter and operate it surely modifying equipment would be
legal as long as I did  not transmit outside the bands. The radio is
an Icom and I use software thst I wrote to control the frequency/mode.
It would not be too difficult to modify the software to limit the
frequency data sent to the transceiver in accordance with the band I
am using. The software already  "knows" when I use the transverters so
I get the proper frequency dispaly. As the XYL and YL may be using it
some goof proofing may be in order. Hopefully soon I will also have
the computer controling the switching of the transverters.

Jimmie


From 3549341093413585834
X-Google-Thread: 241b302a50,7a9317c4b5213fa5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 26 May 2009 20:34:29 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <53d65d2e-49fd-4852-9695-e5389b985f3c@r33g2000yqn.googlegroups.com>
Subject: Re: Transceiver mod
Date: Tue, 26 May 2009 21:35:45 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
```

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <hfGdnXxJPYk4BYHXnZ2dnUVZ_s2dnZ2d@earthlink.com>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.225.35.56
X-Trace: sv3-Tja67OOniT4882rk4Ym9QzdysoAPpvf5dpH+KgH2VJ0DA4Ra4sNuXFwrA7xJszcZpT/
LGn+U2/VBm26!+QwE9MmuEh1yW6AZeCLRXfdExi2xZpZKfdw4rjhghxG3HreIiK8g9pE6R4FafYs+xIO/
yM2TR4Ee!wpVYO7iG4l2vWWvA/hL20dvMZIT5dd2sDcd0Tg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2029
Xref: g2news2.google.com rec.radio.amateur.homebrew:2740

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
news:53d65d2e-49fd-4852-9695-e5389b985f3c@r33g2000yqn.googlegroups.com...
>I have an HF transceiver which can be easily modified to work outside
> the ham bands. I want to perform the mod so I can use the radio with
> VHF/UHF transverters and cover the entire bands. Would this be legal?
> I have discussed this with several fellow hams but have not really got
> any kind of definitive answer yet.
>
> Jimmie.

This is the basic way many transceivers have worked for many years. The
basic signal generating part is almost never on the same frequency as the
desired output.

As mentioned by others assuming you are in the US anyway it does not mater
what you do to generate the output frequency as long as the final results
are in the ham band and meets the other requirements.

From 1504664329483925399
X-Google-Thread: 241b302a50,7a9317c4b5213fa5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 27 May 2009 05:15:56 -0500
Date: Wed, 27 May 2009 10:15:55 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transceiver mod

```
References: <53d65d2e-49fd-4852-9695-e5389b985f3c@r33g2000yqn.googlegroups.com>
In-Reply-To: <53d65d2e-49fd-4852-9695-e5389b985f3c@r33g2000yqn.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <y7Kdnbbn0M5Bj4DXnZ2dnUVZ_r6dnZ2d@bright.net>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-ZcwikRuS0aViC70Y7q8qkylyyXOB/klinoTnxAKfjxWdlaPi/
cVj22lqTQhioMI5KtokinfW6R7C5qg!xzzFNjL9MHNbkRH4Dh+j/
Xjqi5hHw6efwPDnSWls0DE7prcQBYYpnMvkYw8a3QrrgTGipnSSWn7N!APbyMZ068Q==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2031
Xref: g2news2.google.com rec.radio.amateur.homebrew:2741
```

JIMMIE wrote:

> I have an HF transceiver which can be easily modified to work outside
> the ham bands. I want to perform the mod so I can use the radio with
> VHF/UHF transverters and cover the entire bands. Would this be legal?
> I have discussed this with several fellow hams but have not really got
> any kind of definitive answer yet.
>
> Jimmie.

Assuming you are a licensed ham, it is perfectly legal...IF...you do not transmit over the air on a frequency that is NOT authorized. With transverters, the RF coming out of the HF transceiver goes into the transverter on a coax cable. It is not going out over the air. The transverter output must be filtered enough to only pass the desired signal and must reduce harmonics and spurious emissions (of which your IF frequency could be considered a spurious emission).

```
From -2502347360275063981
X-Google-Thread: 241b302a50,29cbcc8fa177f369,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-
me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe09.iad.POSTED!
7564ea0f!not-for-mail
From: "Howard Kowall" <hkowall@shaw.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: test
Lines: 3
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
```

```
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Message-ID: <h2bTl.117664$5N7.107788@newsfe09.iad>
NNTP-Posting-Host: 24.79.5.64
X-Complaints-To: internet.abuse@sjrb.ca
X-Trace: newsfe09.iad 1243430157 24.79.5.64 (Wed, 27 May 2009 13:15:57 UTC)
NNTP-Posting-Date: Wed, 27 May 2009 13:15:57 UTC
Date: Wed, 27 May 2009 08:15:56 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:2445
```

sorry test only

```
From -4232267774025250783
X-Google-Thread: 241b302a50,7a9317c4b5213fa5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <53d65d2e-49fd-4852-9695-e5389b985f3c@r33g2000yqn.googlegroups.com>
<4bdue6-fn4.ln1@mail.specsol.com>
<8e14c33f-91c6-44f0-9ce4-2a6c8e587ff1@m19g2000yqk.googlegroups.com>
Subject: Re: Transceiver mod
Lines: 45
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <BUfTl.861$Cc1.158@nwrddc01.gnilink.net>
Date: Wed, 27 May 2009 18:46:57 GMT
NNTP-Posting-Host: 173.55.72.222
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1243450017 173.55.72.222 (Wed, 27 May 2009 14:46:57
EDT)
NNTP-Posting-Date: Wed, 27 May 2009 14:46:57 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2743
```

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
news:8e14c33f-91c6-44f0-9ce4-2a6c8e587ff1@m19g2000yqk.googlegroups.com...
On May 26, 8:30 pm, j...@specsol.spam.sux.com wrote:

> JIMMIE <JIMMIEDEE...@yahoo.com> wrote:
> > I have an HF transceiver which can be easily modified to work outside
> > the ham bands. I want to perform the mod so I can use the radio with
> > VHF/UHF transverters and cover the entire bands. Would this be legal?
> > I have discussed this with several fellow hams but have not really got
> > any kind of definitive answer yet.
>
> > Jimmie.
>
> As a licensed amateur (I'm assuming US), you can do anything you want
> with your equipment as long as you don't transmit outside of the
> frequencies and modes authorized by your class of license.
>
> --
> Jim Pennino
>
> Remove .spam.sux to reply.

>Thanks Tom and Jim, It was also my reasoning that if I could build my
own transmitter and operate it surely modifying equipment would be
legal as long as I did not transmit outside the bands. The radio is
an Icom and I use software thst I wrote to control the frequency/mode.
It would not be too difficult to modify the software to limit the
frequency data sent to the transceiver in accordance with the band I
am using. The software already "knows" when I use the transverters so
I get the proper frequency dispaly. As the XYL and YL may be using it
some goof proofing may be in order. Hopefully soon I will also have
the computer controling the switching of the transverters.

>Jimmie

The spectral purity specifications in part 97. Most HF rigs have allowed
some out of band operation ever since I could remember. It is the shared
responsibility of the station licensee and control ops to stay cleanly
within their grant. Regular RG 58c provides at least 60db of isolation from
adjacent cabling. Be aware of the possibilities of what might come out of
the antenna ports and take appropriate action. If you waste a little power
in an attenuator and/ or filter circuit on the input of the Xverter,
spurious from the driving radio are also reduced. Nice to be able to verify
with a spectrum analyzer too if you know someone. GL

From 7911899420832469843
X-Google-Thread: 241b302a50,7a9317c4b5213fa5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!37g2000yqp.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transceiver mod

```
Date: Wed, 27 May 2009 17:35:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 72
Message-ID: <18f74751-d1d1-4cb3-b0d2-deead7a58fa6@37g2000yqp.googlegroups.com>
References: <53d65d2e-49fd-4852-9695-e5389b985f3c@r33g2000yqn.googlegroups.com>
     <4bdue6-fn4.ln1@mail.specsol.com>
<8e14c33f-91c6-44f0-9ce4-2a6c8e587ff1@m19g2000yqk.googlegroups.com>
     <BUfTl.861$Cc1.158@nwrddc01.gnilink.net>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1243470935 15553 127.0.0.1 (28 May 2009 00:35:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 28 May 2009 00:35:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 37g2000yqp.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2744

On May 27, 2:46=A0pm, "JB" <nos...@goofball.net> wrote:
> "JIMMIE" <JIMMIEDEE...@YAHOO.COM> wrote in message
>
> news:8e14c33f-91c6-44f0-9ce4-2a6c8e587ff1@m19g2000yqk.googlegroups.com...
> On May 26, 8:30 pm, j...@specsol.spam.sux.com wrote:
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> > > I have discussed this with several fellow hams but have not really go=
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> > > any kind of definitive answer yet.
>
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> > Jim Pennino
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 from
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 of
> the antenna ports and take appropriate action. =A0If you waste a little p=
ower
> in an attenuator and/ or filter circuit on the input of the Xverter,
> spurious from the driving radio are also reduced. =A0Nice to be able to v=
erify
> with a spectrum analyzer too if you know someone. =A0GL- Hide quoted text=
 -
>
> - Show quoted text -

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that I could soon rig up to operate manually and hopefully controled
by the PC in the more distant future. The transverter I have was set
up for use with a 10M IF however if I could modify it for a 6M IF
things would be greatly simplified as the transceiver covers 6M at
reduce power(10 watts) compared to 100 watts on HF.

Jimmie

From -3357716109829139862
X-Google-Thread: da6537b9fb,56d2426b794be984,start
X-Google-Attributes: gidda6537b9fb,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h11g2000yqb.googlegroups.com!not-for-mail
From: "bill.meara@gmail.com" <bill.meara@gmail.com>
Newsgroups:

```
sci.electronics.basics,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: New Book about Radio and Electronics
Date: Wed, 27 May 2009 20:01:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <34a0a514-114b-4fe2-977b-fd5e8f91b264@h11g2000yqb.googlegroups.com>
NNTP-Posting-Host: 93.45.226.111
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1243479716 10792 127.0.0.1 (28 May 2009 03:01:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 28 May 2009 03:01:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h11g2000yqb.googlegroups.com; posting-host=93.45.226.111;
     posting-account=ePxsiwkAAACeKyenV1cL73nSaGPyDy3Q
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.0.10)
     Gecko/2009042316 Firefox/3.0.10,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com sci.electronics.basics:20695
rec.radio.amateur.homebrew:2745 rec.radio.amateur.boatanchors:2940
```

SolderSmoke -- A Global Adventure in Radio Electronics
From Crystal Radios to Podcast MP3s
With Occasional Forays into Astronomy, Kite Aerial Photography, and Model Rocketry

SolderSmoke is the story of a secret, round-the-world, after-hours life in electronics. Bill Meara started out as a normal kid, but around the age of 12 he got interested in radio... To make matters worse, when he got older he became a diplomat. In all of the places he has lived, his hobby caused him to seek out like-minded radio fiends, to stay up late into the night working on strange projects, and to build embarrassingly large antennas above innocent foreign neighborhoods. SolderSmoke takes you into the world of an expatriate geek. It is a technical memoir filled with funny stories and with serious descriptions of Bill's struggles to truly understand the theory behind the equipment that he built.

My intention was to produce a book that is both fun and useful. The memoir part of the book is about my life as electronics-addicted diplomat. But this is more than a memoir: portions of each chapter describe my struggles to really understand the theory behind the circuits that I was building. Throughout, I try to lace the text with inspirational descriptions of the fraternal, cooperative, international aspects of ham radio, of what we call "The International Brotherhood of Electronic Wizards." In short, its the kind of book that a techie would like to take to the beach.

Here is the web site -- it has the cover photo and a preview of the first chapter.

http://www.lulu.com/content/paperback-book/soldersmoke/6743576

```
From -5344960170714O2416
X-Google-Thread: 241b302a50,29cbcc8fa177f369
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <Invalid@Invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: test
Followup-To: rec.radio.amateur.homebrew
Date: Thu, 28 May 2009 16:49:23 +0100
Organization: BIAS Comms
Lines: 8
Message-ID: <787q43F1kdbkcU1@mid.individual.net>
References: <h2bTl.117664$5N7.107788@newsfe09.iad>
Reply-To: Invalid@Invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net 5oebkfU3/KUa0s5xwi8yMAhEZMmpaiUYV68tJYfagd/dEKM56m
Cancel-Lock: sha1:tSKciFlsrfCno3OXTnh16O8tmkw=
User-Agent: KNode/0.99.01
Xref: g2news2.google.com rec.radio.amateur.homebrew:2746
```

Howard Kowall wrote:

> sorry test only

Since there are /several/ test newsgroups, we can only presume that your
"test" failed, since it showed up here...!

```
From 5472070016882038148
X-Google-Thread: 241b302a50,1845b57d5fe6b6e5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
From: "Dan Valdez" <dval5@yahoo.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <4a086abc@x-privat.org> <7a5421ab-79a2-4005-99f9-
e6a812081d17@b1g2000vbc.googlegroups.com> <gukl5r$bqb$2@news.mixmin.net>
<4a0df615@x-privat.org> <01d627ca-7c8c-4eda-a243-
c449ed34ca9c@d2g2000pra.googlegroups.com>
Subject: Re: Linear Amplifier Plans 1-16 Pill On DVD
Date: Thu, 28 May 2009 12:09:39 -0400
Lines: 26
```

Organization: soft rock
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
NNTP-Posting-Host: $$5jnnqhingh7l64.newsfeed.x-privat.org
Message-ID: <4a1eb74c$1@x-privat.org>
X-Authenticated-User: $$q3_o_tx91q7xfh$rfsj2gd6
X-Complaints-To: abuse@x-privat.org
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!news-out2.kabelfoon.nl!newsfeed.kabelfoon.nl!xindi.nntp.kabelfoon.nl!x-privat.org!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.equipment:1563
rec.radio.amateur.homebrew:2747

"raypsi" <RBorowiak@gmail.com> wrote in message
news:01d627ca-7c8c-4eda-a243-c449ed34ca9c@d2g2000pra.googlegroups.com...
On May 15, 7:08 pm, "Dan Valdez" <dv...@yahoo.com> wrote:
> "Roger & Suzanne Nair" <r&sn...@lycos.com> wrote in
> messagenews:gukl5r$bqb$2@news.mixmin.net...

>
> Is kc8qjp out of prison again?-

Hey OM

She lives in the same area zip code looky the street view a real flag
waver here:
http://tinyurl.com/qnaxzn

73 OM
de n8zu

=============================

It would appear her reputation has been soiled by N8WWM..

http://www.google.com/search?hl=en&q=kc8qjp&btnG=Google+Search&aq=f&oq=&aqi=

From -3692642921581652698
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>

Newsgroups: rec.radio.amateur.homebrew
References: <53d65d2e-49fd-4852-9695-e5389b985f3c@r33g2000yqn.googlegroups.com>
<4bdue6-fn4.ln1@mail.specsol.com>
<8e14c33f-91c6-44f0-9ce4-2a6c8e587ff1@m19g2000yqk.googlegroups.com>
<BUfTl.861$Cc1.158@nwrddc01.gnilink.net> <18f74751-d1d1-4cb3-b0d2-deead7a58fa6@37g2000yqp.googlegroups.com>
Subject: Re: Transceiver mod
Lines: 75
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <lpzTl.1098$Cc1.481@nwrddc01.gnilink.net>
Date: Thu, 28 May 2009 16:58:57 GMT
NNTP-Posting-Host: 173.55.72.4
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1243529937 173.55.72.4 (Thu, 28 May 2009 12:58:57 EDT)
NNTP-Posting-Date: Thu, 28 May 2009 12:58:57 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2748

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up for use with a 10M IF however if I could modify it for a 6M IF
things would be greatly simplified as the transceiver covers 6M at
reduce power(10 watts) compared to 100 watts on HF.


>Jimmie

I certainly like the idea of using the ham rig as a decent general coverage
receiver for SWL and I had to do the mod anyway for 60m operation.  You just
have to get in the habit of looking at the radio to verify conditions before
keying up.  Like checking the swimming pool to see if there is water in it
first.



From -3715781472808999733
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!indigo.octanews.net!news-
out.octanews.net!teal.octanews.net!news.astraweb.com!
```

```
border5.newsrouter.astraweb.com!flph200.ffdc.sbc.com!prodigy.net!
flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!nlpi065.nbdc.sbc.com.POSTED!
9b0b1a69!not-for-mail
From: Usual Suspect <reply@thegroup.net>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
Subject: "Panel" style UHF DTV antenna?
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Reply-To: reply@thegroup.net
Lines: 19
NNTP-Posting-Host: 99.189.171.35
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi065.nbdc.sbc.com 1243729698 ST000 99.189.171.35 (Sat, 30 May 2009
20:28:18 EDT)
NNTP-Posting-Date: Sat, 30 May 2009 20:28:18 EDT
Organization: at&t http://my.att.net/
X-UserInfo1: O@ZQBWCDEZUUSVH]^JKBOW@@YJ_ZTB\MV@BD]
\YIJYWZUYICD^RAQBKZQTZTX\_I[^G_KGFNON[ZOE_AZNVO^\XGGNTCIRPIJH[@RQKBXLRZ@CD^HKANYVW
@RLGEZEJN@\_WZJBNZYYKVIOR]T]MNMG_Z[YVWSCH_Q[GPC_A@CARQVXDSDA^M]@DRVUM@RBM
Date: Sat, 30 May 2009 17:28:18 -0700
Xref: g2news2.google.com rec.radio.amateur.antenna:12272
rec.radio.amateur.homebrew:2749 alt.tv.tech.hdtv:18181
```

WInegard makes an antenna-in-a-box, the SS-1000 which lists ~4 db gain over the UHF TV range:

<http://tinyurl.com/nqpzm2>

I must say at the outset that I am hesitant to buy an antenna based on its form-factor, but I'm forced by the local code to not display bare-element type antennae on the mast.

I do like the panel style for the reason that I can arrange 3 around a common mast, aimed at remote cities, and join the outputs for increased coverage.

Has anyone experience with the SS-1000? Or can recommend a similar style antenna?

Thanks.
--
Al, the usual

```
From -90032831564878337
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!q16g2000yqg.googlegroups.com!not-for-
```

mail
From: stratus46@yahoo.com
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Date: Sat, 30 May 2009 22:33:40 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <1350ff6e-c913-46c0-958d-6d2e2daab934@q16g2000yqg.googlegroups.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
NNTP-Posting-Host: 68.225.243.210
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1243748020 4759 127.0.0.1 (31 May 2009 05:33:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 31 May 2009 05:33:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q16g2000yqg.googlegroups.com; posting-host=68.225.243.210;
posting-account=JX7V1wkAAAAeax67P9giUWdoKufQ8keT
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.63 (Windows NT 5.1; U; en) Presto/
2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:12292
rec.radio.amateur.homebrew:2751 alt.tv.tech.hdtv:18186

On May 30, 5:28=A0pm, Usual Suspect <re...@thegroup.net> wrote:

> WInegard makes an antenna-in-a-box, the SS-1000 which lists ~4 db
gain over
> the UHF TV range:
>
> <http://tinyurl.com/nqpzm2>
>
> I must say at the outset that I am hesitant to buy an antenna based
on its
> form-factor, but I'm forced by the local code to not display bare-
element
> type antennae on the mast.
>
> I do like the panel style for the reason that I can arrange 3
around a common
> mast, aimed at remote cities, and join the outputs for increased
coverage.
>
> Has anyone experience with the SS-1000? Or can recommend a similar
style
> antenna?
>
> Thanks.
> --
> Al, the usual

I've had one on the roof since Dec 2004 in 90274 35 miles from Mt
Wilson split 4 ways with no preamps. It's a fine little UHF antenna

and while they say it can do upper VHF, I have serious doubts. I'll
find out for certain in 2 weeks.

G=B2

From 5127038438766320096
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe21.iad.POSTED!7564ea0f!not-for-mail
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
Subject: Re: "Panel" style UHF DTV antenna?
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <QiqUl.64902$Rf7.19106@newsfe21.iad>
NNTP-Posting-Host: 72.199.58.188
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe21.iad 1243754800 72.199.58.188 (Sun, 31 May 2009 07:26:40 UTC)
NNTP-Posting-Date: Sun, 31 May 2009 07:26:40 UTC
Organization: Cox
Date: Sun, 31 May 2009 00:26:37 -0700
Xref: g2news2.google.com rec.radio.amateur.antenna:12293 rec.radio.amateur.homebrew:2752 alt.tv.tech.hdtv:18189

"Usual Suspect" <reply@thegroup.net> wrote in message
news:0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net...

< snip >

> I do like the panel style for the reason that I can arrange 3 around a
common
> mast, aimed at remote cities, and join the outputs for increased coverage.

You may encounter some undesired affects from joining antennas. If it
works, fine, but if it doesn't, consider switching among the three at the TV
set(s).

The problem is that the prime signal will be "contaminated" by signal pickup
from the other antenna(s). The degree of contamination may or not affect
reception.

Good luck.

```
From -2593906807753232546
X-Google-Thread: 241b302a50,34b95383f27d5295,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m19g2000yqk.googlegroups.com!not-for-
mail
From: EFR <kevin.voet@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: LMX2326 & Homebrew
Followup-To: rec.radio.amateur.homebrew
Date: Sun, 31 May 2009 00:34:57 -0700 (PDT)
Organization: http://groups.google.com
Lines: 7
Message-ID: <0f7ea44b-7da7-4a14-8982-b175e3e81092@m19g2000yqk.googlegroups.com>
NNTP-Posting-Host: 81.164.206.88
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1243755297 425 127.0.0.1 (31 May 2009 07:34:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 31 May 2009 07:34:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m19g2000yqk.googlegroups.com; posting-host=81.164.206.88;
     posting-account=Rl-rOgoAAAAXmwpvLh0Gj1nggU1UreIJ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; nl; rv:1.9.0.10)
     Gecko/2009042316 Firefox/3.0.10 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2753
```

I'm in possestion of 4 LMX2326 PLL IC's and I'm looking for projects
to use them in.

I was thinking of building and designing an RF Signal Generator but
I'm confused about the VCO. Is it possible to use the LMX2326 to drive
a VCO built up of discrete components or do you have to work with an
VCO IC like the ones from minicircuits?

```
From -4566702680422148596
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!news.glorb.com!news.astraweb.com!
border5.newsrouter.astraweb.com!flph200.ffdc.sbc.com!prodigy.net!
flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!nlpi065.nbdc.sbc.com.POSTED!
9b0b1a69!not-for-mail
From: Usual Suspect <reply@thegroup.net>
MIME-Version: 1.0
```

User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=iso-8859-15
Content-Transfer-Encoding: 8bit
Message-ID: <0001HW.C647E2D803F904A1B01AD9AF@news.sf.sbcglobal.net>
Subject: Re: "Panel" style UHF DTV antenna?
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Reply-To: reply@thegroup.net
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net> <1350ff6e-c913-46c0-958d-6d2e2daab934@q16g2000yqg.googlegroups.com>
Lines: 17
NNTP-Posting-Host: 99.189.171.35
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi065.nbdc.sbc.com 1243780296 ST000 99.189.171.35 (Sun, 31 May 2009 10:31:36 EDT)
NNTP-Posting-Date: Sun, 31 May 2009 10:31:36 EDT
Organization: at&t http://my.att.net/
X-UserInfo1: TSUGWXCEGJTSSQD[OBCD^VX@WB]^PCPDLXUNNHLIWIWTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCENSY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Sun, 31 May 2009 07:31:36 -0700
Xref: g2news2.google.com rec.radio.amateur.antenna:12301 rec.radio.amateur.homebrew:2754 alt.tv.tech.hdtv:18194

> I've had one on the roof since Dec 2004 in 90274 35 miles from Mt
> Wilson split 4 ways with no preamps. It's a fine little UHF antenna
> and while they say it can do upper VHF, I have serious doubts. I'll
> find out for certain in 2 weeks.
> G�

Thanks, G, for answering the question *asked*. I appreciate it. :-)

The issue re. rights may be interesting to some, but was not asked. (Man, the signal-to-noise ration on USENET is *so* low...)

If you think of it, please post a follow-up in 2 weeks.

Thanks.
--
Al, the usual

From 355747560371423719
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!nntp.posted.nuvoxcommunications!news.posted.nuvoxcommunications.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 31 May 2009 09:32:04 -0500

From: Rich Griffiths <richgrif@one.net>
Subject: Re: "Panel" style UHF DTV antenna?
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
<elmop-47688C.21325830052009@mara100-84.onlink.net>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <IrKdneCiEaF5Cb_XnZ2dnUVZ_oednZ2d@posted.nuvoxcommunications>
Date: Sun, 31 May 2009 09:32:04 -0500
Lines: 36
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.23.31.223
X-Trace: sv3-M7XxZJtBIPiYf9ySozwCBeY2Wro/
DnyUMaMVSmavT0EMDkSBgFWAWSiFx9e2DMXwt5YDHwZLrSD7Imd!
lTEE0NIvsuvPiNiyY8ralTxLjavV1kIJdW0dgusA0R7yvJ0HXMRknalC1gY0lDjW9PKOicjplbmG!
DN6rovEwtYCyRHR5Dax1hxQiO24UvM//SqiCj9LUAfw=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2828
Xref: g2news2.google.com rec.radio.amateur.antenna:12302
rec.radio.amateur.homebrew:2755 alt.tv.tech.hdtv:18195

On Sat, 30 May 2009 21:32:58 -0400, Elmo P. Shagnasty wrote:

> In article <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>,
> Usual Suspect <reply@thegroup.net> wrote:
>
>> I must say at the outset that I am hesitant to buy an antenna based on
>> its form-factor, but I'm forced by the local code to not display
>> bare-element type antennae on the mast.
>
> I don't believe the local code has any say in the matter.
>
> But if you want to give up your rights...

I believe what Elmo says is correct.

Check out: http://www.fcc.gov/mb/facts/otard.html

which says, in part:

The rule (47 C.F.R. Section 1.4000) has been in effect since October
1996, and it prohibits restrictions that impair the installation,
maintenance or use of antennas used to receive video programming. The
rule applies to video antennas including direct-to-home satellite dishes
that are less than one meter (39.37") in diameter (or of any size in
Alaska), TV antennas, and wireless cable antennas. The rule prohibits
most restrictions that: (1) unreasonably delay or prevent installation,
maintenance or use; (2) unreasonably increase the cost of installation,

maintenance or use; or (3) preclude reception of an acceptable quality signal.

In this ruling, the FCC pre-empted not only state and local government regulations but HOA CCR's and landlords' restrictions on renters.

This came about because the broadcasters have a strong lobby, and they didn't want widespread limitations on receiving their over-the-air or satellite transmissions.

```
From -5074848358374779036
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!
newsfeed2.telusplanet.net!newsfeed.telus.net!flph200.ffdc.sbc.com!prodigy.net!
flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!nlpi065.nbdc.sbc.com.POSTED!
9b0b1a69!not-for-mail
From: Usual Suspect <reply@thegroup.net>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C647EC5903FB3EF5B01AD9AF@news.sf.sbcglobal.net>
Subject: Re: "Panel" style UHF DTV antenna?
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Reply-To: reply@thegroup.net
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net> <1350ff6e-
c913-46c0-958d-6d2e2daab934@q16g2000yqg.googlegroups.com>
<0001HW.C647E2D803F904A1B01AD9AF@news.sf.sbcglobal.net>
<elmop-7CA5DC.10360931052009@mara100-84.onlink.net>
Lines: 20
NNTP-Posting-Host: 99.189.171.35
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi065.nbdc.sbc.com 1243782729 ST000 99.189.171.35 (Sun, 31 May 2009
11:12:09 EDT)
NNTP-Posting-Date: Sun, 31 May 2009 11:12:09 EDT
Organization: at&t http://my.att.net/
X-UserInfo1: O@ZQBWCDEZUUSVH]^JKBOW@@YJ_ZTB\MV@BD]
\YIJYWZUYICD^RAQBKZQTZTX\_I[^G_KGFNON[ZOE_AZNVO^\XGGNTCIRPIJH[@RQKBXLRZ@CD^HKANYVW
@RLGEZEJN@\_WZJBNZYYKVIOR]T]MNMG_Z[YVWSCH_Q[GPC_A@CARQVXDSDA^M]@DRVUM@RBM
Date: Sun, 31 May 2009 08:12:09 -0700
Xref: g2news2.google.com rec.radio.amateur.antenna:12305
rec.radio.amateur.homebrew:2757 alt.tv.tech.hdtv:18197
```

> Your question was framed around an assertion that is not true.
>
> As such, your question is moot. You, however, want an answer to a moot
> question? And when your false assertion is explained to you as being
> false, complete with details, you consider that "noise"?
>

> "How many baseballs can fit inside the soul of a poet?"

I asked a question. I didn't ask Is my assertion correct? Assume it is (regardless FCC mandates).

You (and others) decided to answer an unasked question.

But let's not drag this on. I'd like to hear from anyone who has used this antenna or other like it.

Thanks.
--
Al, the usual

```
From -2677080231477485526
X-Google-Thread: 241b302a50,7a9317c4b5213fa5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!z7g2000vbh.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transceiver mod
Date: Sun, 31 May 2009 08:25:00 -0700 (PDT)
Organization: http://groups.google.com
Lines: 10
Message-ID: <4eb5fa09-1da5-4ea2-b31e-f59dacecfa9a@z7g2000vbh.googlegroups.com>
References: <53d65d2e-49fd-4852-9695-e5389b985f3c@r33g2000yqn.googlegroups.com>
     <4bdue6-fn4.ln1@mail.specsol.com>
<8e14c33f-91c6-44f0-9ce4-2a6c8e587ff1@m19g2000yqk.googlegroups.com>
     <BUfTl.861$Cc1.158@nwrddc01.gnilink.net> <18f74751-d1d1-4cb3-b0d2-
deead7a58fa6@37g2000yqp.googlegroups.com>
     <lpzTl.1098$Cc1.481@nwrddc01.gnilink.net>
NNTP-Posting-Host: 76.226.206.226
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1243783501 20971 127.0.0.1 (31 May 2009 15:25:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 31 May 2009 15:25:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z7g2000vbh.googlegroups.com; posting-host=76.226.206.226;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.0.10)
     Gecko/2009042523 Ubuntu/9.04 (jaunty) Firefox/3.0.10,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2758
```

 =A0Like checking the swimming pool to see if there is water in it
> first.

Hey OM:

My swimming pool is Lake Erie, be a long time for it to dry out.

73 OM
de n8zu

From 5085479208185408l6
X-Google-Thread: 241b302a50,34b95383f27d5295
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!s28g2000vbp.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LMX2326 & Homebrew
Date: Sun, 31 May 2009 08:51:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <c648286c-67e9-4dac-9437-cd701035f7e3@s28g2000vbp.googlegroups.com>
References: <0f7ea44b-7da7-4a14-8982-b175e3e81092@m19g2000yqk.googlegroups.com>
NNTP-Posting-Host: 76.226.206.226
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1243785106 22423 127.0.0.1 (31 May 2009 15:51:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 31 May 2009 15:51:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s28g2000vbp.googlegroups.com; posting-host=76.226.206.226;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.0.10)
     Gecko/2009042523 Ubuntu/9.04 (jaunty) Firefox/3.0.10,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2759

On May 31, 3:34=A0am, EFR <kevin.v...@gmail.com> wrote:
> I'm in possestion of 4 LMX2326 PLL IC's and I'm looking for projects
> to use them in.
>
> I was thinking of building and designing an RF Signal Generator but
> I'm confused about the VCO. Is it possible to use the LMX2326 to drive
> a VCO built up of discrete components or do you have to work with an
> VCO IC like the ones from minicircuits?

Hey OM:

Sure discrete is ok, you are going to use GaAs fets i assume? The
caveat is feedback the correct signal level to Fin or NOT>Fin.

```
73 OM
de n8zu


From -5152459420359837582
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!r16g2000vbn.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Date: Sun, 31 May 2009 09:04:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 53
Message-ID: <eedf031f-c023-4a15-abea-8a3b22751339@r16g2000vbn.googlegroups.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
NNTP-Posting-Host: 76.226.206.226
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1243785862 24752 127.0.0.1 (31 May 2009 16:04:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 31 May 2009 16:04:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r16g2000vbn.googlegroups.com; posting-host=76.226.206.226;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.0.10)
     Gecko/2009042523 Ubuntu/9.04 (jaunty) Firefox/3.0.10,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:12308
rec.radio.amateur.homebrew:2761 alt.tv.tech.hdtv:18200

On May 30, 8:28=A0pm, Usual Suspect <re...@thegroup.net> wrote:
> WInegard makes an antenna-in-a-box, the SS-1000 which lists ~4 db gain ov=
er
> the UHF TV range:
>
> <http://tinyurl.com/nqpzm2>
>
> I must say at the outset that I am hesitant to buy an antenna based on it=
s
> form-factor, but I'm forced by the local code to not display bare-element
> type antennae on the mast.
>
> I do like the panel style for the reason that I can arrange 3 around a co=
mmon
> mast, aimed at remote cities, and join the outputs for increased coverage=
.
>
```

> Has anyone experience with the SS-1000? Or can recommend a similar style
> antenna?
>
> Thanks.
> --
> Al, the usual

Hey OM
This si just a rehash of another post awhile back in this here forum.
But DTV will never go away so:

I seen one on youtube, there are a tonne of them, but this, to the
best of my recollection, one used:

1pc 1x2 2ft long board
5 steel wire coat hangers
dry wall screws
and a 75 ohm to 300 ohm balun

to make a 4 bay bowtie antenna

Ideally that's 6 db over, just a single bowtie.

And an 8 bay bowtie would be 9db.

I the real world it would be slightly less

Capture area of stacked antennas is greater, so less UHF fading. Like
when the wind blows trees branches around and when cars and trucks go
by.

But nothing like watching a pixelated picture. Unless you got a good
memory in that set box.

73 OM
de n8zu

From 6099001341422052298
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 31 May 2009 12:06:46 -0500
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Date: Sun, 31 May 2009 10:06:45 -0700
Message-ID: <1rc525huu0prd8mq1hoc3cmqd7a6gug79b@4ax.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>

X-Newsreader: Forte Agent 5.00/32.1171 trialware
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 67
X-Trace: sv3-
RuRkUXY3DGi+1+HMZCdGxye7WOw2YFrRnWIFAfVQqZPaNziT4Q8b+IHHmAc42w9H3AuOK5Cf8u5ucg7!
FnyIbFUrcrWbUuru+/c3ONXLcTjjkS+R5067WO6uE1PuODy4fQBpiO/RNd1I9uqwMToJ5lQr3MvJ!
FhyYdg==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 4297
Xref: g2news2.google.com rec.radio.amateur.antenna:12309 rec.radio.amateur.homebrew:2762 alt.tv.tech.hdtv:18205

On Sat, 30 May 2009 17:28:18 -0700, Usual Suspect <reply@thegroup.net> wrote:

>WInegard makes an antenna-in-a-box, the SS-1000 which lists ~4 db gain over
>the UHF TV range:
><http://tinyurl.com/nqpzm2>

4dB isn't very much gain. Compare this with some other available antennas:
<http://www.hdtvprimer.com/ANTENNAS/comparing.html>
Unfortunately, the SS-1000 and SS-1000 are not listed.

Depending on the distance between your apartment and the antenna location, the +4dB antenna gain may not be sufficient to compensate for the coax loss. Are you in a weak signal or strong signal area? Is an antenna amplifier justified?   If so, you might need 3 amplifiers for your 3 different directions.

Also, a 4dB gain antenna will not have a very directional antenna pattern or be particularly directional. My guess(tm) is perhaps 120 degrees wide. There probably won't be much difference in signal strength if your 3 directions are within the beam width.

>I must say at the outset that I am hesitant to buy an antenna based on its
>form-factor, but I'm forced by the local code to not display bare-element
>type antennae on the mast.

As others have mentioned, this is mostly incorrect. The problem is in the interpretation of the word "unreasonable", which might be interpreted in a variety of ways. Without details on your situation, I can't comment on this.

>I do like the panel style for the reason that I can arrange 3 around a common
>mast, aimed at remote cities, and join the outputs for increased coverage.

Mast? Welcome to "unreasonable". The FCC 47.1.4000 clause that limits antenna installation has nothing to say about the supporting structure. While the HOA may not be able to prevent you from installing an antenna, they most certainly will have something to say about the design and construction of the supporting structure. They may also demand that it be installed by a licensed and insured installer to protect themselves against subsequent litigation. I know you don't want to hear about all this, but methinks you should at least be warned before blundering onward.

>Has anyone experience with the SS-1000? Or can recommend a similar style
>antenna?

No recommendations. Antennas are sized and designed to solve specific problems. The design required in a strong signal area is quite different from one in a weak signal area, in an urban canyon, for an indoor installation, or if it is intended to be disguised or minimalized. It's also important to know the lowest VHF frequency or channel that the antenna is expected to operate as this has a huge effect on the physical size of the antenna. Without a clue as to your situation, it's impossible to offer an endorsement or alternative. If you find it inconvenient to disclose such details, I suggest you use:
<http://www.antennaweb.org>
to optimize your selection and proposed installation.

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From 5856802750000528867
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-05.dc1.easynews.com.POSTED!not-for-mail
From: Richard Clark <kb7qhc@comcast.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Message-ID: <mqe525lg2q52l33ecmvkuj1u2h6sjfaifn@4ax.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 34
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we

will be unable to process your complaint properly.
Date: Sun, 31 May 2009 10:35:03 -0700
Xref: g2news2.google.com rec.radio.amateur.antenna:12310 rec.radio.amateur.homebrew:2763 alt.tv.tech.hdtv:18206

On Sat, 30 May 2009 17:28:18 -0700, Usual Suspect <reply@thegroup.net> wrote:

>but I'm forced by the local code to not display bare-element
>type antennae on the mast.

Seeing that you are forced into this, you will suffer by the same degree. In comparisons to others in the field, it is good by technical standards - for UHF (low VHF is just hopes and dreams). In comparisons to others in the field, it is mediocre by cost standards.

So you suffer in cost and coverage (if you want VHF); and form factor is always going to reign.

This should come as no surprise, certainly.

>Or can recommend a similar style
>antenna?

To suffer equally? As you really lead with your chin ("local code" and hewing to not arguing that line) and don't offer any technical specifics (where you live, what stations, what directions, what distances, what bands, what frequencies, what height mast - in short nothing) you might fill a 16x16x4 inch box with low denomination bills, attach a cord and see how that works. If it doesn't, then send the cash filled box to Winegard and ask that they fill the box with an antenna in return for what they find inside. It may work equally well.

Sorry for the lengthy answer that sums up to "maybe," short questions often require even more elaboration to upgrade to "perhaps."

73's
Richard Clark, KB7QHC

From 4952522288838904434
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!2a619d92!not-for-mail
From: "Jerry" <jerrymartes@verizon.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>

Subject: Re: "Panel" style UHF DTV antenna?
Lines: 43
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <mBzUl.1721$Cc1.1357@nwrddc01.gnilink.net>
Date: Sun, 31 May 2009 18:00:50 GMT
NNTP-Posting-Host: 173.60.107.35
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1243792850 173.60.107.35 (Sun, 31 May 2009 14:00:50 EDT)
NNTP-Posting-Date: Sun, 31 May 2009 14:00:50 EDT
Xref: g2news2.google.com rec.radio.amateur.antenna:12311
rec.radio.amateur.homebrew:2764 alt.tv.tech.hdtv:18208

"Usual Suspect" <reply@thegroup.net> wrote in message
news:0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net...

> WInegard makes an antenna-in-a-box, the SS-1000 which lists ~4 db gain
> over
> the UHF TV range:
>
> <http://tinyurl.com/nqpzm2>
>
> I must say at the outset that I am hesitant to buy an antenna based on its
> form-factor, but I'm forced by the local code to not display bare-element
> type antennae on the mast.
>
> I do like the panel style for the reason that I can arrange 3 around a
> common
> mast, aimed at remote cities, and join the outputs for increased coverage.
>
> Has anyone experience with the SS-1000? Or can recommend a similar style
> antenna?
>
> Thanks.
> --
> Al, the usual

Hi Al

The gain of an antenna is related to its radiation pattern shape.
When the signal ois divided between several antennas, the "gain" of the system is lowered.

For instance, when the "gain" of the antenna is the result of its directuivity being restricted to 180 degrees azimuth, and the second (identical) antenna is mounted to cover the other 180 degrees, the "gain of the both" is 3 dB. lower than the gain of either antenna alone.

If the "remote cities" produce signals that are weak enough that you are required to have antenna gain to receive them, you may need a switch that disconnects all but one antenna for channels from that city.

Jerry KD6JDJ

```
From 5353088905059632062
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!e20g2000vbc.googlegroups.com!not-for-
mail
From: stratus46@yahoo.com
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Date: Sun, 31 May 2009 11:16:42 -0700 (PDT)
Organization: http://groups.google.com
Lines: 102
Message-ID: <3607e29e-3401-4d4b-a053-6d9af8bdf100@e20g2000vbc.googlegroups.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
     <1rc525huu0prd8mq1hoc3cmqd7a6gug79b@4ax.com>
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Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 31 May 2009 18:16:42 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e20g2000vbc.googlegroups.com; posting-host=68.225.243.210;
     posting-account=JX7V1wkAAAAeax67P9giUWdoKufQ8keT
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.63 (Windows NT 5.1; U; en) Presto/
2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:12312
rec.radio.amateur.homebrew:2765 alt.tv.tech.hdtv:18211
```

```
On May 31, 10:06=A0am, Jeff Liebermann <je...@cruzio.com> wrote:
 > On Sat, 30 May 2009 17:28:18 -0700, Usual Suspect
<re...@thegroup.net>
 > wrote:
 >
 > >WInegard makes an antenna-in-a-box, the SS-1000 which lists ~4 db
gain over
 > >the UHF TV range:
 > ><http://tinyurl.com/nqpzm2>
 >
 > 4dB isn't very much gain. =A0Compare this with some other available
 > antennas:
```

 > <http://www.hdtvprimer.com/ANTENNAS/comparing.html>
 > Unfortunately, the SS-1000 and SS-1000 are not listed.

Sure it is but it's called 'Square Shooter'

 > Depending on the distance between your apartment and the antenna
 > location, the +4dB antenna gain may not be sufficient to compensate
 > for the coax loss. =A0Are you in a weak signal or strong signal area?
Is
 > an antenna amplifier justified? =A0 If so, you might need 3
amplifiers
 > for your 3 different directions.

As I said, I use it 35 miles out from Mt Wilson (Los Angeles) and have
it split 4 ways - no preamps. I do have Line Of Sight (just barely)

 > Also, a 4dB gain antenna will not have a very directional antenna
 > pattern or be particularly directional. =A0My guess(tm) is perhaps
120
 > degrees wide. =A0There probably won't be much difference in signal
 > strength if your 3 directions are within the beam width.

You're right, it isn't very directional but it has a reasonable front-
to-back ratio.

 > >I must say at the outset that I am hesitant to buy an antenna
based on its
 > >form-factor, but I'm forced by the local code to not display bare-
element
 > >type antennae on the mast.

I don't like getting into 'contests' with the HOAs if I can avoid it.
After all, we have to live with them.

 > As others have mentioned, this is mostly incorrect. =A0The problem is
in
 > the interpretation of the word "unreasonable", which might be
 > interpreted in a variety of ways. =A0Without details on your
situation,
 > I can't comment on this.
 >
 > >I do like the panel style for the reason that I can arrange 3
around a common
 > >mast, aimed at remote cities, and join the outputs for increased
coverage.
 >
 > Mast? =A0Welcome to "unreasonable". =A0The FCC 47.1.4000 clause that
 > limits antenna installation has nothing to say about the supporting
 > structure. =A0While the HOA may not be able to prevent you from
 > installing an antenna, they most certainly will have something to
say
 > about the design and construction of the supporting structure.
=A0They

```
 > may also demand that it be installed by a licensed and insured
 > installer to protect themselves against subsequent litigation. =A0I
know
 > you don't want to hear about all this, but methinks you should at
 > least be warned before blundering onward.
 >
 > >Has anyone experience with the SS-1000? Or can recommend a similar
style
 > >antenna?
 >
 > No recommendations. =A0Antennas are sized and designed to solve
specific
 > problems. =A0The design required in a strong signal area is quite
 > different from one in a weak signal area, in an urban canyon, for
an
 > indoor installation, or if it is intended to be disguised or
 > minimalized. =A0It's also important to know the lowest VHF frequency
or
 > channel that the antenna is expected to operate as this has a huge
 > effect on the physical size of the antenna. =A0Without a clue as to
your
 > situation, it's impossible to offer an endorsement or alternative.
=A0If
 > you find it inconvenient to disclose such details, I suggest you
use:
 > <http://www.antennaweb.org>
 > to optimize your selection and proposed installation.
 >
 > --
 > Jeff Liebermann =A0 =A0 je...@cruzio.com

All I can say is I've been using Winegard antennas since 1974 and have
found them to be well built good performers and have never been
disappointed with their products. Also, any friends who took my advice
were never disappointed with either the antannas OR me.

G=B2



From -2641554343204777401
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 31 May 2009 13:20:22 -0500
Date: Sun, 31 May 2009 18:20:22 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transceiver mod
References: <53d65d2e-49fd-4852-9695-e5389b985f3c@r33g2000yqn.googlegroups.com>
     <4bdue6-fn4.ln1@mail.specsol.com>
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<8e14c33f-91c6-44f0-9ce4-2a6c8e587ff1@m19g2000yqk.googlegroups.com>
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deead7a58fa6@37g2000yqp.googlegroups.com>
<lpzTl.1098$Cc1.481@nwrddc01.gnilink.net> <4eb5fa09-1da5-4ea2-b31e-
f59dacecfa9a@z7g2000vbh.googlegroups.com>
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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
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Message-ID: <V-qdnWv_TJz7V7_XnZ2dnUVZ_hZi4p2d@bright.net>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-cJt7jeXmXD2uk2CIcxoGcS9ozxdiO5qztVs0M3Xg6gS2pzcgPBV5UXG/
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34s+3ySqUg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2017
Xref: g2news2.google.com rec.radio.amateur.homebrew:2766

raypsi wrote:
>   Like checking the swimming pool to see if there is water in it
>> first.
>
> Hey OM:
>
> My swimming pool is Lake Erie, be a long time for it to dry out.
>
> 73 OM
> de n8zu
>

Isn't that like swimming in a cesspool?  Isn't that the most polluted of
the Great Lakes?  I live near Lake Superior...water looks clean but it's
damn cold (but the icebergs do give you a nice place to get out and rest
on the swim from Ashland (WI) to Thunder Bay, Ontario) ;)

Scott
N0EDV




From -1122840100841148783
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!
news.bellsouth.net!border2.nntp.dca.giganews.com!nntp.giganews.com!
```

backlog2.nntp.dca.giganews.com!nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 31 May 2009 13:52:29 -0500
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Date: Sun, 31 May 2009 11:52:28 -0700
Message-ID: <9dj525ls0f32k96aubotstuvjp6jmqt2vs@4ax.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net> <1rc525huu0prd8mq1hoc3cmqd7a6gug79b@4ax.com> <3607e29e-3401-4d4b-a053-6d9af8bdf100@e20g2000vbc.googlegroups.com>
X-Newsreader: Forte Agent 5.00/32.1171 trialware
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Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
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X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.antenna:12313 rec.radio.amateur.homebrew:2767 alt.tv.tech.hdtv:18215

On Sun, 31 May 2009 11:16:42 -0700 (PDT), stratus46@yahoo.com wrote:

>On May 31, 10:06�am, Jeff Liebermann <je...@cruzio.com> wrote:

> > <http://www.hdtvprimer.com/ANTENNAS/comparing.html>
> > Unfortunately, the SS-1000 and SS-1000 are not listed.
>
>Sure it is but it's called 'Square Shooter'

Sorry, typo error. I mean't the SS-1000 and SS-2000 (amplified). It
does list the "Sharp Shooter" which is a different indoor antenna.

What's inside the SS-1000 and some really weird "gain" tests:
<http://www.hdtvexpert.com/pages/squareshot.htm>

>As I said, I use it 35 miles out from Mt Wilson (Los Angeles) and have
>it split 4 ways - no preamps. I do have Line Of Sight (just barely)

Yes, but the original poster may not have such an ideal location.

Also, bad guess on the beamwidth. It's 54 (channel 69) to 95 (channel
7) degrees. Sorry.

>You're right, it isn't very directional but it has a reasonable front-

>to-back ratio.

It varies with frequency. It's only 2.6dB at channel 10. See specs below.

>All I can say is I've been using Winegard antennas since 1974 and have
>found them to be well built good performers and have never been
>disappointed with their products. Also, any friends who took my advice
>were never disappointed with either the antannas OR me.

I try to avoid shopping by brand. Even the best manufacturers have their lemons and losers. Right now, the advertising trend is to replace your existing antenna with an HD or Digital TV antenna, whatever that means. Also, to make it look like a DBS dish, which is generally accepted by most HOA.

Specs and details:
<http://www.winegarddirect.com/pdf/spec_ss1000-ss2000.pdf>
<http://www.winegarddirect.com/squareshooter-ss1000-ss2000/winegard-square-shooter.htm>
<http://www.winegarddirect.com/viewitem~p~ss-1000~d~Winegard-SS1000-SquareShooter-UHF-Only-DigitalAnalogHDTV-Antenna-System-(SS1000)~post~.htm>
I don't see much to complain about in the design and construction of this antenna. However, whether it's suitable for the OP's location and application is unknown.

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

```
From -8908189854131924 92
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
gnilink.net!bigfeed.bellsouth.net!news.bellsouth.net!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi065.nbdc.sbc.com.POSTED!9b0b1a69!not-for-mail
From: Usual Suspect <reply@thegroup.net>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C6483F02040E9E7FB01AD9AF@news.sf.sbcglobal.net>
Subject: Re: "Panel" style UHF DTV antenna?
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Reply-To: reply@thegroup.net
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
```

```
<1rc525huu0prd8mq1hoc3cmqd7a6gug79b@4ax.com> <3607e29e-3401-4d4b-
a053-6d9af8bdf100@e20g2000vbc.googlegroups.com>
<9dj525ls0f32k96aubotstuvjp6jmqt2vs@4ax.com>
Lines: 16
NNTP-Posting-Host: 99.189.171.35
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi065.nbdc.sbc.com 1243803890 ST000 99.189.171.35 (Sun, 31 May 2009
17:04:50 EDT)
NNTP-Posting-Date: Sun, 31 May 2009 17:04:50 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
TSU[@IONXJVWSRH[AZOFOFTBTR\B@GXLN@GZ_GYO^BVNDQUBLNTC@AWZWDXZXQ[K\FFSKCVM@F_N_DOBWV
WG__LG@VVOIPLIGX\
\BU_B@\P\PFX\B[APHTWAHDCKJF^NHD[YJAZMCY_CWG[SX\Y]^KC\HSZRWSWKGAY_PC[BQ[BXAS\F\
\@DMTLFZFUE@\VL
Date: Sun, 31 May 2009 14:04:50 -0700
Xref: g2news2.google.com rec.radio.amateur.antenna:12319
rec.radio.amateur.homebrew:2768 alt.tv.tech.hdtv:18219
```

> Yes, but the original poster may not have such an ideal location.

TV Fool azimuth plot:

<http://i44.tinypic.com/2a4wghx.jpg>

Was considering 3 antennae with wide reception angles pointed generally at
45, 140, 310 deg. Only 3 are LOS (15, 18, 33)

Pretty flat terrain, no tall structures nearby . Top of the mast: 14 ft. agl.

Thanks.
--
Al, the usual

```
From 2539455910338471379
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!b9g2000yqm.googlegroups.com!not-for-
mail
From: stratus46@yahoo.com
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Date: Sun, 31 May 2009 15:18:48 -0700 (PDT)
Organization: http://groups.google.com
Lines: 70
Message-ID: <0078dd88-c6d0-48f7-bf48-508fd6797d13@b9g2000yqm.googlegroups.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
     <1rc525huu0prd8mq1hoc3cmqd7a6gug79b@4ax.com> <3607e29e-3401-4d4b-
```

```
a053-6d9af8bdf100@e20g2000vbc.googlegroups.com>
     <9dj525ls0f32k96aubotstuvjp6jmqt2vs@4ax.com>
NNTP-Posting-Host: 68.225.243.210
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1243808329 30048 127.0.0.1 (31 May 2009 22:18:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 31 May 2009 22:18:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b9g2000yqm.googlegroups.com; posting-host=68.225.243.210;
     posting-account=JX7V1wkAAAAeax67P9giUWdoKufQ8keT
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.63 (Windows NT 5.1; U; en) Presto/
2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:12320
rec.radio.amateur.homebrew:2769 alt.tv.tech.hdtv:18220

On May 31, 11:52=A0am, Jeff Liebermann <je...@cruzio.com> wrote:
> On Sun, 31 May 2009 11:16:42 -0700 (PDT), stratu...@yahoo.com wrote:
> >On May 31, 10:06=A0am, Jeff Liebermann <je...@cruzio.com> wrote:
> > > <http://www.hdtvprimer.com/ANTENNAS/comparing.html>
> > > Unfortunately, the SS-1000 and SS-1000 are not listed.
>
> >Sure it is but it's called 'Square Shooter'
>
> Sorry, typo error. =A0I mean't the SS-1000 and SS-2000 (amplified). =A0It
> does list the "Sharp Shooter" which is a different indoor antenna.
>
> What's inside the SS-1000 and some really weird "gain" tests:
> <http://www.hdtvexpert.com/pages/squareshot.htm>

It's antenna 'M', the Square Shooter

> >As I said, I use it 35 miles out from Mt Wilson (Los Angeles) and have
> >it split 4 ways - no preamps. I do have Line Of Sight (just barely)
>
> Yes, but the original poster may not have such an ideal location.

And that is why I point out my line of sight condidtion at 35 miles

> Also, bad guess on the beamwidth. =A0It's 54 (channel 69) to 95 (channel
> 7) degrees. =A0Sorry.
>
> >You're right, it isn't very directional but it has a reasonable front-
> >to-back ratio.
>
> It varies with frequency. =A0It's only 2.6dB at channel 10. =A0See specs
> below.

I don't expect it to be usable where I'm at for channels 7,9,11 and
13. I'll try it and if / when it fails, I'll tie in the VHF of the
Winegard in the garage eaves. Hopefully its VHF performance will make
```

the grade under the roof 'chaff'. If the wife would put up with the
all channel garage antenna on the roof, it would certainly be fine BUT
she doesn't want to look at it, hence the SS-1000 at least for the
UHF.

> >All I can say is I've been using Winegard antennas since 1974 and have
> >found them to be well built good performers and have never been
> >disappointed with their products. Also, any friends who took my advice
> >were never disappointed with either the antannas OR me.
>
> I try to avoid shopping by brand. =A0Even the best manufacturers have
> their lemons and losers. =A0Right now, the advertising trend is to
> replace your existing antenna with an HD or Digital TV antenna,
> whatever that means. =A0Also, to make it look like a DBS dish, which is
> generally accepted by most HOA.
>
> Specs and details: =A0
> <http://www.winegarddirect.com/pdf/spec_ss1000-ss2000.pdf>
> <http://www.winegarddirect.com/squareshooter-ss1000-ss2000/winegard-sq...=
>
> <http://www.winegarddirect.com/viewitem~p~ss-1000~d~Winegard-SS1000-Sq...=
>
> I don't see much to complain about in the design and construction of
> this antenna. =A0However, whether it's suitable for the OP's location
> and application is unknown.
>
> --
> Jeff Liebermann =A0 =A0 je...@cruzio.com

You won't find any new Sony at our house but you will find 4 Gigabyte
motherboards with AMD processors, 3 old Technics receivers, 8 Advent
speakers, Canon cameras and a lot of who knows what. When one of the
brands falls short I'll re-evaluate but for now I'm happy.

G=B2

From -454850045401683455
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
From: Gordon <gonzo@alltomyself.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net> <eedf031f-c023-4a15-abea-8a3b22751339@r16g2000vbn.googlegroups.com>
Organization: Your Company
Message-ID: <Xns9C1CABF8C29B9greederxprtnet@194.177.98.144>
User-Agent: Xnews/5.04.25
NNTP-Posting-Host: $$aiwdkeimpd7t4.news.x-privat.org
Date: 1 Jun 2009 01:54:28 +0200
Lines: 27

X-Authenticated-User: $$k61syq0x5_n1niyemw
X-Complaints-To: abuse@x-privat.org
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!newsfeed.straub-nv.de!x-privat.org!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.antenna:12325 rec.radio.amateur.homebrew:2770 alt.tv.tech.hdtv:18225

raypsi <RBorowiak@gmail.com> wrote in news:eedf031f-c023-4a15-abea-8a3b22751339@r16g2000vbn.googlegroups.com:

> Hey OM
> This si just a rehash of another post awhile back in this here forum.
> But DTV will never go away so:
>
> I seen one on youtube, there are a tonne of them, but this, to the
> best of my recollection, one used:
>
> 1pc 1x2 2ft long board
> 5 steel wire coat hangers
> dry wall screws
> and a 75 ohm to 300 ohm balun
>
> to make a 4 bay bowtie antenna
>

That one is all over the internet. It works OK, but you would
get better results with copper wire, not steel coat hangers.
It also looks ugly.

For another idea, do a google for a Hoverman style antenna.

Then there is mine...

http://mysite.verizon.net/g_reeder/Content/DTV_antenna.html

From -6013692203186063681
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 31 May 2009 19:24:30 -0500
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Date: Sun, 31 May 2009 17:24:29 -0700
Message-ID: <pk6625dk2bi2l6c0e3bhf5lqctsq1n11lb@4ax.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net> <1rc525huu0prd8mq1hoc3cmqd7a6gug79b@4ax.com> <3607e29e-3401-4d4b-a053-6d9af8bdf100@e20g2000vbc.googlegroups.com> <9dj525ls0f32k96aubotstuvjp6jmqt2vs@4ax.com> <0001HW.C6483F02040E9E7FB01AD9AF@news.sf.sbcglobal.net>
X-Newsreader: Forte Agent 5.00/32.1171 trialware

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 55
X-Trace:
sv3-3f2eXUf3v1PB8lwrmn4Rm04KL2Fy3ZQFhvtrhE3EoiEN5mJc1Xs4iICmo0FVHNeSFEFqDpAaIvtF9W
J!LdHI1QX4LUdt90v/qFuj8NuWVp3pHYE7yqHQTmX/NM0qFBWjp7d68AJ5HFgC1gy+FbA84/ucHm4X!
U53ZzQ==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 3834
Xref: g2news2.google.com rec.radio.amateur.antenna:12326
rec.radio.amateur.homebrew:2771 alt.tv.tech.hdtv:18226

On Sun, 31 May 2009 14:04:50 -0700, Usual Suspect <reply@thegroup.net>
wrote:

>> Yes, but the original poster may not have such an ideal location.
>
>TV Fool azimuth plot:
><http://i44.tinypic.com/2a4wghx.jpg>

Nice plot. Kinda looks like you'll need a rotator. The -3dB
beamwidth varies from 54 to 95 degrees. At best, 3 antennas will
cover 3*95 = 285 degrees. At worst, 3*54 = 162 degrees.

>Was considering 3 antennae with wide reception angles pointed generally at
>45, 140, 310 deg. Only 3 are LOS (15, 18, 33)

What are the ranges and approximate signal strengths? Looks like 18
and 33 can be covered with one antenna pointed at about 250 degrees. A
second antenna at 45 degrees *MIGHT* catch the largest number of
channels. However, there's no optimum location for a 3rd antenna to
catch all the remaining stations. You'll probably have to pick and
choose among the relatively strong ones and take what you can get.
With a UHF only antenna, stations 2-13 are problematic (or
impossible). If you're going to run multiple antennas, you'll
probably need an antenna switch, 3 tower mounted amplifiers, and 3
coax cable runs. If you try to combine then with a power splitter,
you'll get interaction between antennas and an ugly and unpredictable
pattern.

With an indoor antenna of any sorts, which ones can you receive
(including the weak ones)? With only 4dBi of antenna gain, I don't
think you'll be able to dig the ones you can't receive out of the
noise.

>Pretty flat terrain, no tall structures nearby . Top of the mast: 14 ft. agl.

They let you have a 14 ft mast and you're worried about the antenna police? Might as well go for broke. Install a real yagi antenna, tower mounted amplifier, and rotator. For the tower amp, I recommend a Channel Master 7777.
<http://www.channelmasterintl.com/amplifiers.html>
For an antenna, whatever you can find. The bigger and uglier the antenna, the better it works. See specs at:
<http://www.hdtvprimer.com/ANTENNAS/comparing.html>

If you're not sure, buy just one antenna, hang it out the window on a broom stick, and see what it does. If you're close, continue with your proposed ideas. If it looks hopeless, give up before you burn any more money.

```
--
Jeff Liebermann     jeffl@cruzio.com
150 Felker St #D    http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann     AE6KS    831-336-2558
```

```
From 1602094791997160351
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 31 May 2009 22:13:58 -0500
Date: Sun, 31 May 2009 22:13:57 -0500
From: sorry-spammers <""w9wi\"@(sorry-spammers)">
Organization: Ham Radio W9WI
User-Agent: Thunderbird 2.0.0.21 (X11/20090318)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
     <elmop-47688C.21325830052009@mara100-84.onlink.net>
<IrKdneCiEaF5Cb_XnZ2dnUVZ_oednZ2d@posted.nuvoxcommunications>
In-Reply-To: <IrKdneCiEaF5Cb_XnZ2dnUVZ_oednZ2d@posted.nuvoxcommunications>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <I7CdnZxqDqTq2r7XnZ2dnUVZ_vWdnZ2d@earthlink.com>
Lines: 27
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 4.154.43.234
X-Trace: sv3-wUehKK5JYHbMQjQlEaThZEG61Ru/Oam/
B5XQlthLojGj9svHsv9hPEithL9WodEaMqjAOnfNIJPriSc!
QJ6BhPJ7MoY7RjLo01rbU6vXh2MrBgNeyVtweni4oQshsAELlFZ681EEu/dBEv8uqxG/5JTwp6Bp!
y5I1apO9LmFKWSa/VLD2WfK48vE=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
```

```
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2341
Xref: g2news2.google.com rec.radio.amateur.antenna:12328
rec.radio.amateur.homebrew:2772 alt.tv.tech.hdtv:18229

Rich Griffiths wrote:
> Check out:  http://www.fcc.gov/mb/facts/otard.html
 >
> ...
 >
> In this ruling, the FCC pre-empted not only state and local government
> regulations but HOA CCR's and landlords' restrictions on renters.
>
> This came about because the broadcasters have a strong lobby, and they
> didn't want widespread limitations on receiving their over-the-air or
> satellite transmissions.

I would suggest it came about because cable operators have a strong
lobby and wanted to be deregulated.  The FCC was reluctant to do so as
long as many apartment- and condo-dwellers had no choice but to
subscribe to cable.  By ensuring these people have access to OTA TV you
ensure (at least in theory) that if deregulated cable rates get too
high, one can switch to OTA or satellite.

=========================================

Either way, Elmo is indeed correct.

--

Doug Smith W9WI
Pleasant View, TN  EM66


From 6259222015547906334
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news2.google.com!npeer02.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
post02.iad.highwinds-media.com!newsfe10.iad.POSTED!7564ea0f!not-for-mail
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net> <eedf031f-
c023-4a15-abea-8a3b22751339@r16g2000vbn.googlegroups.com>
<Xns9C1CABF8C29B9greederxprtnet@194.177.98.144>
Subject: Re: "Panel" style UHF DTV antenna?
Lines: 39
X-Priority: 3
X-MSMail-Priority: Normal
```

X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <TfJUl.67232$ho7.5840@newsfe10.iad>
NNTP-Posting-Host: 72.199.58.188
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe10.iad 1243832435 72.199.58.188 (Mon, 01 Jun 2009 05:00:35 UTC)
NNTP-Posting-Date: Mon, 01 Jun 2009 05:00:35 UTC
Organization: Cox
Date: Sun, 31 May 2009 22:00:34 -0700
Xref: g2news2.google.com rec.radio.amateur.antenna:12329
rec.radio.amateur.homebrew:2773 alt.tv.tech.hdtv:18230

"Gordon" <gonzo@alltomyself.com> wrote in message
news:Xns9C1CABF8C29B9greederxprtnet@194.177.98.144...
> raypsi <RBorowiak@gmail.com> wrote in news:eedf031f-c023-4a15-abea-
> 8a3b22751339@r16g2000vbn.googlegroups.com:
>

>
> Then there is mine...
>
> http://mysite.verizon.net/g_reeder/Content/DTV_antenna.html

Hi, Gordon,

I recall when you introduced your neat handiwork to the group. I meant to ask a question:

Did you ever try connecting each of the antennas' twin lead to its own separate balun and combine the 75-ohm sides of the baluns into a single coax? A passive splitter, connected backwards, performs this function nicely.

I ask because, as you have your antenna wired (two antennas in parallel to a single balun) looks like an impedance mismatch; the balun wants a 300-ohm connection to the two screws and two 300-ohm antennas at the same time would be 150-ohms. I think you previously said you are not a techie, so forgive me if I'm using terms you don't know.

Not being one to argue with success, if you tried it and it wasn't any better, then more power to you. Rock on!

"Sal"

PS: For my fellow techies: Yes, I realize the 300-ohm figure for a bowtie is nominal and the actual impedance will differ from that figure. Paralleling the two antennas could be superior.

```
From 8517135066021235288
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
From: Gordon <gonzo@alltomyself.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net> <eedf031f-
c023-4a15-abea-8a3b22751339@r16g2000vbn.googlegroups.com>
<Xns9C1CABF8C29B9greederxprtnet@194.177.98.144>
<TfJUl.67232$ho7.5840@newsfe10.iad>
Organization: Your Company
Message-ID: <Xns9C1CE7992BD5Dgreederxprtnet@194.177.98.144>
User-Agent: Xnews/5.04.25
NNTP-Posting-Host: $$aiwdkeimpd7t4.news.x-privat.org
Date: 1 Jun 2009 07:46:08 +0200
Lines: 71
X-Authenticated-User: $$k61syq0x5_n1niyemw
X-Complaints-To: abuse@x-privat.org
Path: g2news2.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!oleane.net!oleane!news.ecp.fr!x-privat.org!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.antenna:12331
rec.radio.amateur.homebrew:2774 alt.tv.tech.hdtv:18231

"Sal M. Onella" <salmonella@food.poisoning.org> wrote in
news:TfJUl.67232$ho7.5840@newsfe10.iad:

>
> "Gordon" <gonzo@alltomyself.com> wrote in message
> news:Xns9C1CABF8C29B9greederxprtnet@194.177.98.144...
>> raypsi <RBorowiak@gmail.com> wrote in news:eedf031f-c023-4a15-abea-
>> 8a3b22751339@r16g2000vbn.googlegroups.com:
>>
>
>>
>> Then there is mine...
>>
>> http://mysite.verizon.net/g_reeder/Content/DTV_antenna.html
>
> Hi, Gordon,
>
>     I recall when you introduced your neat handiwork to the group.   I
>     meant
> to ask a question:
>
>     Did you ever try connecting each of the antennas' twin lead to its
>     own
> separate balun and combine the 75-ohm sides of the baluns into a
> single coax?  A passive splitter, connected backwards, performs this
> function nicely.
```

No, I didn't think to try that. I could give it a shot, I have all
the necessary parts. I am concerned about loss, and thought that
the extra hardware would introduce too much extra loss.

>
>   I ask because, as you have your antenna wired (two antennas in
>   parallel
> to a single balun) looks like an impedance mismatch; the balun wants
> a 300-ohm connection to the two screws and two 300-ohm antennas at the
> same time would be 150-ohms. I think you previously said you are not
> a techie, so forgive me if I'm using terms you don't know.

I'm following you.

Hmmm... Yes. I can see how there could be a mismatch. But I
thought that only applied to simple things like resistance in DC
and AC circuits. RF is not one of my forte`s.

Anyway, I was trying to mimic the Channelmaster two and 4 bay
bowtie designs, that seem to have a 300 ohm feed.

Maybe someone could explain that.

>
>   Not being one to argue with success, if you tried it and it wasn't
>   any
> better, then more power to you. Rock on!

Well, I got an improvement, probably in spite of myself. The
setup gives better signal strength, and is less suseptable to
interfearence (people walking aroung the room) than just a
single bowtie.

>
> "Sal"
>
> PS: For my fellow techies: Yes, I realize the 300-ohm figure for a
> bowtie is nominal and the actual impedance will differ from that
> figure. Paralleling the two antennas could be superior.
>
>
>

```
From -7238009093217394307
X-Google-Thread: 241b302a50,34b95383f27d5295
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!c9g2000yqm.googlegroups.com!not-for-mail
From: EFR <kevin.voet@gmail.com>
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LMX2326 & Homebrew
Date: Sun, 31 May 2009 22:55:17 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <08518b91-2644-4fa8-94fa-e167d72c30e4@c9g2000yqm.googlegroups.com>
References: <0f7ea44b-7da7-4a14-8982-b175e3e81092@m19g2000yqk.googlegroups.com>
     <c648286c-67e9-4dac-9437-cd701035f7e3@s28g2000vbp.googlegroups.com>
NNTP-Posting-Host: 81.164.206.88
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1243835717 17004 127.0.0.1 (1 Jun 2009 05:55:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 1 Jun 2009 05:55:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c9g2000yqm.googlegroups.com; posting-host=81.164.206.88;
     posting-account=Rl-rOgoAAAAXmwpvLh0Gj1nggU1UreIJ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; nl; rv:1.9.0.10)
     Gecko/2009042316 Firefox/3.0.10 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2775

On May 31, 5:51=A0pm, raypsi <RBorow...@gmail.com> wrote:
> On May 31, 3:34=A0am, EFR <kevin.v...@gmail.com> wrote:
>
> > I'm in possestion of 4 LMX2326 PLL IC's and I'm looking for projects
> > to use them in.
>
> > I was thinking of building and designing an RF Signal Generator but
> > I'm confused about the VCO. Is it possible to use the LMX2326 to drive
> > a VCO built up of discrete components or do you have to work with an
> > VCO IC like the ones from minicircuits?
>
> Hey OM:
>
> Sure discrete is ok, you are going to use =A0GaAs fets i assume? =A0The
> caveat is feedback the correct signal level to Fin or NOT>Fin.
>
> 73 OM
> de n8zu

I'll be using FET transistors, or experimenting. It's a learning
project anyway since I'm heading into microwave terrority next year
for my Master' degree. And I thought I'd get a head start by building
and designing some projects such as PLL driven VCO.

I'm now just looking for a good book on oscillator design. Any
suggestions?


From -2264844227311916870
X-Google-Thread: a4a23d5f63,6bb740fe266ce4f1,start
```

```
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!bloom-beacon.mit.edu!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Supersedes: <radio/ham-radio/moderated/crossposting-1-1241157601@panix.com>
Followup-To: poster
Date: 1 Jun 2009 02:00:03 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 04 Jul 2009 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1243836001@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1243836003 26885 166.84.1.2 (1 Jun 2009 06:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 1 Jun 2009 06:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting,
permitted
Xref: g2news2.google.com rec.radio.amateur.antenna:12332 rec.radio.amateur.dx:409
rec.radio.amateur.equipment:1567 rec.radio.amateur.homebrew:2776
rec.radio.amateur.misc:4278 rec.radio.amateur.policy:26325
rec.radio.amateur.space:225 rec.radio.info:763

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html
```

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

```
From 7722284612274514380
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!nlpi057.nbdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi065.nbdc.sbc.com.POSTED!b893d748!not-for-mail
From: Cecil Moore <nospam@w5dxp.com>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net> <eedf031f-
c023-4a15-abea-8a3b22751339@r16g2000vbn.googlegroups.com>
<Xns9C1CABF8C29B9greederxprtnet@194.177.98.144>
<TfJUl.67232$ho7.5840@newsfe10.iad>
<Xns9C1CE7992BD5Dgreederxprtnet@194.177.98.144>
In-Reply-To: <Xns9C1CE7992BD5Dgreederxprtnet@194.177.98.144>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 10
```

Message-ID: <1fPUl.27886$c45.4537@nlpi065.nbdc.sbc.com>
NNTP-Posting-Host: 75.23.35.5
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi065.nbdc.sbc.com 1243856957 ST000 75.23.35.5 (Mon, 01 Jun 2009 07:49:17 EDT)
NNTP-Posting-Date: Mon, 01 Jun 2009 07:49:17 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
TSUGW_SEVJTKBQ]XAZH@^TTDTJYNQBQLGPQRZUEK@YUDUWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
TINTDDMVW[X\THOPXZRVOCJTUTPC_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Mon, 01 Jun 2009 06:49:20 -0500
Xref: g2news2.google.com rec.radio.amateur.antenna:12337
rec.radio.amateur.homebrew:2777 alt.tv.tech.hdtv:18233

Gordon wrote:
> Well, I got an improvement, probably in spite of myself. The
> setup gives better signal strength, and is less suseptable to
> interfearence (people walking aroung the room) than just a
> single bowtie.

A mismatch can cause ghosting in an analog TV.
What does ghosting do to a digital TV signal?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

From 2449714624716752262
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news3
From: Bill M <radioexray@geemail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Date: Mon, 01 Jun 2009 08:31:50 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 15
Message-ID: <h00hnn0304c@news3.newsguy.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net> <eedf031f-c023-4a15-abea-8a3b22751339@r16g2000vbn.googlegroups.com>
<Xns9C1CABF8C29B9greederxprtnet@194.177.98.144>
<TfJUl.67232$ho7.5840@newsfe10.iad>
<Xns9C1CE7992BD5Dgreederxprtnet@194.177.98.144>
<1fPUl.27886$c45.4537@nlpi065.nbdc.sbc.com>
NNTP-Posting-Host: p34d1bfbfff00000039aa3817ddd3724a422f6b3c5c42ed17.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)

In-Reply-To: <1fPUl.27886$c45.4537@nlpi065.nbdc.sbc.com>
Xref: g2news2.google.com rec.radio.amateur.antenna:12338
rec.radio.amateur.homebrew:2778 alt.tv.tech.hdtv:18235

Cecil Moore wrote:
> Gordon wrote:
>> Well, I got an improvement, probably in spite of myself. The
>> setup gives better signal strength, and is less suseptable to
>> interfearence (people walking aroung the room) than just a single bowtie.
>
> A mismatch can cause ghosting in an analog TV.
> What does ghosting do to a digital TV signal?

If its bad enough it will wreck the reception. But the latest
processors can tolerate multipath that is only 1 db down.

They are getting better as they try to debug HDTV for mobile reception.

-Bill

From 6861936936826219599
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!n19g2000vba.googlegroups.com!not-for-mail
From: stratus46@yahoo.com
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Date: Mon, 1 Jun 2009 08:26:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <8a4f6c14-b5bf-40d3-a363-f511093a70ef@n19g2000vba.googlegroups.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
     <eedf031f-c023-4a15-abea-8a3b22751339@r16g2000vbn.googlegroups.com>
     <Xns9C1CABF8C29B9greederxprtnet@194.177.98.144>
<TfJUl.67232$ho7.5840@newsfe10.iad>
     <Xns9C1CE7992BD5Dgreederxprtnet@194.177.98.144>
<1fPUl.27886$c45.4537@nlpi065.nbdc.sbc.com>
NNTP-Posting-Host: 208.46.164.66
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1243869990 24978 127.0.0.1 (1 Jun 2009 15:26:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 1 Jun 2009 15:26:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n19g2000vba.googlegroups.com; posting-host=208.46.164.66;
     posting-account=JX7V1wkAAAAeax67P9giUWdoKufQ8keT
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.64 (Windows NT 5.1; U; en) Presto/

```
2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:12342
rec.radio.amateur.homebrew:2779 alt.tv.tech.hdtv:18238

On Jun 1, 4:49=A0am, Cecil Moore <nos...@w5dxp.com> wrote:
> Gordon wrote:
> > Well, I got an improvement, probably in spite of myself. =A0The
> > setup gives better signal strength, and is less suseptable to
> > interfearence (people walking aroung the room) than just a
> > single bowtie.
>
> A mismatch can cause ghosting in an analog TV.
> What does ghosting do to a digital TV signal?
> --
> 73, Cecil, IEEE, OOTC, =A0http://www.w5dxp.com

It puts 'ripples' into the passband. The ripples happen because of
phase cancelations. The ATI HDTV Wonder cards can handle variations to
around 8-10 dB. After that it just freezes up.

Near the bottom of the page in the link there is an example of the
ATSC spectrum. Add random dips into it.

http://www.hdtvprimer.com/ISSUES/what_is_ATSC.html

G=B2



From 1401147844591861238
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 01 Jun 2009 11:11:38 -0500
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Date: Mon, 01 Jun 2009 09:11:37 -0700
Message-ID: <ntu725964u1tkh09t4elcujbg4plg38r6s@4ax.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net> <eedf031f-
c023-4a15-abea-8a3b22751339@r16g2000vbn.googlegroups.com>
<Xns9C1CABF8C29B9greederxprtnet@194.177.98.144>
<TfJUl.67232$ho7.5840@newsfe10.iad>
<Xns9C1CE7992BD5Dgreederxprtnet@194.177.98.144>
<1fPUl.27886$c45.4537@nlpi065.nbdc.sbc.com>
X-Newsreader: Forte Agent 5.00/32.1171 trialware
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 22
```

X-Trace: sv3-
XziEKbdLfBZw31o5oOrQu2S81q30dyUItwJr6QZDzxu0NFcJ8MTswnLeiuqtDzlaPrmJKH586PYHNcm!
Ma+DvYGDLyqn3mdi85lse/4UHLAC7K7GVF8fGuYy1JZKU99CsEQV8dbqi7sxKXbc54OSHXYScKfa!
1UL6lw==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2269
Xref: g2news2.google.com rec.radio.amateur.antenna:12344
rec.radio.amateur.homebrew:2780 alt.tv.tech.hdtv:18239

On Mon, 01 Jun 2009 06:49:20 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>A mismatch can cause ghosting in an analog TV.
>What does ghosting do to a digital TV signal?

Your worst nightmare. From 10 years ago:
<http://www.businessweek.com/bwdaily/dnflash/aug1999/nf90826b.htm>
(Note the sales predictions, which were totally wrong).
All DTV chipsets now have ghost elimination circuitry, which does a
good job of reducing multipath problems. There's a spec for it but
I'm too lazy to look.   Here's the patent:
<http://www.google.com/patents?id=XNp3AAAAEBAJ&dq=7038732>
with references to others in citations. I won't pretend to understand
how it works.

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From -3814300537331448722
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!solaris.cc.vt.edu!
news.vt.edu!elk.ncren.net!newsswitch.lcs.mit.edu!news.uchicago.edu!nntp-server.caltech.edu!news.jpl.nasa.gov!not-for-mail
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: OTARD rules Re: "Panel" style UHF DTV antenna?
Date: Mon, 01 Jun 2009 10:23:25 -0700
Organization: JPL Information Services, InterNetNews
Lines: 40
Message-ID: <h012qd$8le$1@news.jpl.nasa.gov>

References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
<1rc525huu0prd8mq1hoc3cmqd7a6gug79b@4ax.com>
NNTP-Posting-Host: seraphic.jpl.nasa.gov
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.jpl.nasa.gov 1243877005 8878 137.79.6.96 (1 Jun 2009 17:23:25 GMT)
X-Complaints-To: newsmaster@jpl.nasa.gov
NNTP-Posting-Date: Mon, 1 Jun 2009 17:23:25 +0000 (UTC)
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
In-Reply-To: <1rc525huu0prd8mq1hoc3cmqd7a6gug79b@4ax.com>
X-Received-Date: Mon, 01 Jun 2009 18:10:11 CDT (news.uchicago.edu)
Xref: g2news2.google.com rec.radio.amateur.antenna:12347
rec.radio.amateur.homebrew:2781 alt.tv.tech.hdtv:18241

Jeff Liebermann wrote:

>> I must say at the outset that I am hesitant to buy an antenna based on its form-factor, but I'm forced by the local code to not display bare-element type antennae on the mast.
>
> As others have mentioned, this is mostly incorrect. The problem is in the interpretation of the word "unreasonable", which might be interpreted in a variety of ways. Without details on your situation, I can't comment on this.

The FCC website has quite a bit of info on interpretation (from various regulatory and legal actions) of what is and isn't unreasonable. Paint color: reasonable, restrictions on location: unreasonable, restrictions on form of antenna: unreasonable.

>
>> I do like the panel style for the reason that I can arrange 3 around a common mast, aimed at remote cities, and join the outputs for increased coverage.
>
> Mast? Welcome to "unreasonable". The FCC 47.1.4000 clause that limits antenna installation has nothing to say about the supporting structure. While the HOA may not be able to prevent you from installing an antenna, they most certainly will have something to say about the design and construction of the supporting structure. They may also demand that it be installed by a licensed and insured installer to protect themselves against subsequent litigation. I know you don't want to hear about all this, but methinks you should at least be warned before blundering onward.
>

Hah.. go look at the case of Stanley and Vera Holliday.. 5 masts 30 ft high, multiple dishes and antenans...

http://www.fcc.gov/Bureaus/Cable/Orders/1999/da992132.txt

an analysis at
http://dirt.umkc.edu//dd99/DD991025.htm

From 1414803640417926556
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!feeder2.news.saunalahti.fi!uutiset.elisa.fi!7564ea0f!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Message-ID: <apd825dus5d4b11qnds099cop5270tkku8@4ax.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net> <eedf031f-c023-4a15-abea-8a3b22751339@r16g2000vbn.googlegroups.com>
<Xns9C1CABF8C29B9greederxprtnet@194.177.98.144>
<TfJUl.67232$ho7.5840@newsfe10.iad>
<Xns9C1CE7992BD5Dgreederxprtnet@194.177.98.144>
<1fPUl.27886$c45.4537@nlpi065.nbdc.sbc.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 23
Date: Mon, 01 Jun 2009 23:27:01 +0300
NNTP-Posting-Host: 85.77.203.184
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1243888022 85.77.203.184 (Mon, 01 Jun 2009 23:27:02 EEST)
NNTP-Posting-Date: Mon, 01 Jun 2009 23:27:02 EEST
Organization: Elisa Customer
Xref: g2news2.google.com rec.radio.amateur.antenna:12353 rec.radio.amateur.homebrew:2782 alt.tv.tech.hdtv:18244

On Mon, 01 Jun 2009 06:49:20 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>Gordon wrote:
>> Well, I got an improvement, probably in spite of myself. The
>> setup gives better signal strength, and is less suseptable to
>> interfearence (people walking aroung the room) than just a
>> single bowtie.
>
>A mismatch can cause ghosting in an analog TV.
>What does ghosting do to a digital TV signal?

In countries using COFDM (DVB-T), the symbol time is about 1000 us
(8k) or 250 us (2k), so in the worst case with minimal guard
intervals, you can still use mismatched coaxial cables longer than 1
km without problems :-).

With ATSC 8VSB it depends how well the equalizer is capable of
detecting the characteristics of the radio and coaxial path with a
known signal pattern.

Paul OH3LWR

```
From -5919755927857983570
X-Google-Thread: 241b302a50,b3521a24c9810986,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
newshosting.com!novia!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 01 Jun 2009 23:13:54 -0500
From: newuser33 <newuser33.46a5c47@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: microDAC works in windows and linux!
Date: Tue, 2 Jun 2009 03:26:43 +0100
Message-ID: <newuser33.46a5c47@radiobanter.com>
Organization: RadioBanter.com
Lines: 19
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-ady0Xx2vIfOWSWWs6YI7N/
oMU0b1WZn+YcQmp36gJB6zBGWujiDdNITH4YSyVi5NMoz1HA/pl0GYNED!UDXU3cDIu/
w3okvZbzA6IveVPxlnGxeNIkbcoqA2YHKQaRoCWRhoqB85qWK9fs4ezW3QHnvVfp6Z!C42hfS4=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Lines: 13
Xref: g2news2.google.com rec.radio.amateur.homebrew:2783
```

yep its our new microDAC its out now!!!!

has windows and linux source code and applications!!!

tested on Ubuntu.

HID driver for windows, LIBusb for linux.

http://www.thesiliconhorizon.com

[image: http://www.thesiliconhorizon.com/content/microsplash.jpg]

thanks :)

```
--
newuser33


From -7446745830234691611
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!not-for-mail
Date: Tue, 02 Jun 2009 15:17:53 -0400
From: Radioguy <radioguy@tampabay.rr.com>
Reply-To: radioguy@thehighroad.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.21) Gecko/
20090403 SeaMonkey/1.1.16
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
<elmop-47688C.21325830052009@mara100-84.onlink.net>
In-Reply-To: <elmop-47688C.21325830052009@mara100-84.onlink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 16
Message-ID: <4a257ae2$0$5068$9a6e19ea@unlimited.newshosting.com>
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
NNTP-Posting-Host: 24.26.34.54
X-Complaints-To: abuse@newshosting.com
Xref: g2news2.google.com rec.radio.amateur.antenna:12397
rec.radio.amateur.homebrew:2784 alt.tv.tech.hdtv:18271

Elmo P. Shagnasty wrote:
> In article <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>,
>  Usual Suspect <reply@thegroup.net> wrote:
>
>> I must say at the outset that I am hesitant to buy an antenna based on its
>> form-factor, but I'm forced by the local code to not display bare-element
>> type antennae on the mast.
>
> I don't believe the local code has any say in the matter.
>
> But if you want to give up your rights...

This is true to a point.  Local codes no problem, BUT in HOA territory
these rules do not necessarily apply. In most cases the HOAs have
modified their rules. The small direct satellite lobby started the
trend.  Allowing these dishes they really had to include other TV antennas.
```

From -7781288539066406200
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!d2g2000pra.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Does anyone know anything about Voice above or over ip provider?
Date: Sun, 14 Jun 2009 21:48:37 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <75e02260-808d-47b1-bf12-0500fbdeb724@d2g2000pra.googlegroups.com>
References: <547a2f1e-d012-44e8-b887-c10e39f5538d@h23g2000vbc.googlegroups.com>
     <v28Xl.30871$VL5.12288@newsfe22.iad> <89d34c7d-1937-4e92-a08b-08300cdf4cba@i6g2000yqj.googlegroups.com>
     <you-5229E1.11455012062009@unknown.usenetserver.com>
NNTP-Posting-Host: 76.226.206.226
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1245041317 28607 127.0.0.1 (15 Jun 2009 04:48:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 15 Jun 2009 04:48:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d2g2000pra.googlegroups.com; posting-host=76.226.206.226;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.10)
     Gecko/2009042316 Firefox/3.0.10 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2836

On Jun 12, 3:45=A0pm, You <y...@shadow.orgs> wrote:

>
>
> there are plenty of Computer Apps that can demod VoIP streams,
> and None of those are VoIP Boxes......

Hey OM:

Plenty? Name 5 of those so called computer apps.

73 OM

de n8zu

From 2252916076549006732
X-Google-Thread: 241b302a50,200e892aa95da980
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news4.google.com!news1.google.com!npeer03.iad.highwinds-

```
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!
nwrddc01.gnilink.net.POSTED!24dd0da6!not-for-mail
Sender: Jim Pennino <jimp@mail.specsol.com>
Message-ID: <ve1hg6-iu1.ln1@mail.specsol.com>
From: jimp@specsol.spam.sux.com
Subject: Re: Does anyone know anything about Voice above or over ip provider?
Newsgroups: rec.radio.amateur.homebrew
References: <547a2f1e-d012-44e8-b887-c10e39f5538d@h23g2000vbc.googlegroups.com>
<v28Xl.30871$VL5.12288@newsfe22.iad> <89d34c7d-1937-4e92-
a08b-08300cdf4cba@i6g2000yqj.googlegroups.com>
<you-5229E1.11455012062009@unknown.usenetserver.com> <75e02260-808d-47b1-
bf12-0500fbdeb724@d2g2000pra.googlegroups.com>
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (SunOS/5.10 (i86pc))
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 22
Date: Mon, 15 Jun 2009 05:15:01 GMT
NNTP-Posting-Host: 71.118.11.57
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1245042901 71.118.11.57 (Mon, 15 Jun 2009 01:15:01
EDT)
NNTP-Posting-Date: Mon, 15 Jun 2009 01:15:01 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2837

raypsi <RBorowiak@gmail.com> wrote:
> On Jun 12, 3:45 pm, You <y...@shadow.orgs> wrote:
>>
>>
>> there are plenty of Computer Apps that can demod VoIP streams,
>> and None of those are VoIP Boxes......
>
> Hey OM:
>
> Plenty? Name 5 of those so called computer apps.
>
> 73 OM
>
> de n8zu

Go to freshmeat.net and type VOIP in the search box.


--
Jim Pennino

Remove .spam.sux to reply.


From -6900897849040047069
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!postnews.google.com!
```

w35g2000prg.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Does anyone know anything about Voice above or over ip provider?
Date: Mon, 15 Jun 2009 05:18:01 -0700 (PDT)
Organization: http://groups.google.com
Lines: 39
Message-ID: <a4d47f63-e8dc-412e-bcc9-2d7397438465@w35g2000prg.googlegroups.com>
References: <547a2f1e-d012-44e8-b887-c10e39f5538d@h23g2000vbc.googlegroups.com>
     <v28Xl.30871$VL5.12288@newsfe22.iad> <89d34c7d-1937-4e92-
a08b-08300cdf4cba@i6g2000yqj.googlegroups.com>
     <you-5229E1.11455012062009@unknown.usenetserver.com> <75e02260-808d-47b1-
bf12-0500fbdeb724@d2g2000pra.googlegroups.com>
     <ve1hg6-iu1.ln1@mail.specsol.com>
NNTP-Posting-Host: 76.226.206.226
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1245068281 30778 127.0.0.1 (15 Jun 2009 12:18:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 15 Jun 2009 12:18:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w35g2000prg.googlegroups.com; posting-host=76.226.206.226;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.8.1)
     Gecko/20061010 Firefox/2.0,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2838

On Jun 15, 1:15 am, j...@specsol.spam.sux.com wrote:
> raypsi <RBorow...@gmail.com> wrote:
> > On Jun 12, 3:45 pm, You <y...@shadow.orgs> wrote:
>
> >> there are plenty of Computer Apps that can demod VoIP streams,
> >> and None of those are VoIP Boxes......
>
> > Hey OM:
>
> > Plenty? Name 5 of those so called computer apps.
>
> > 73 OM
>
> > de n8zu
>
> Go to freshmeat.net and type VOIP in the search box.
>

Hey OM:

That's rich, a hacker putting a SIP program that can access a VIOP
stream then somehow miraculously transduce the SIP VIOP into acoustic
energy out the back of his computer.

All those programs you need a sound card and speakers or headphones. But hey maybe the hacker is using the modulating the case fans to make audio out the back of his computer.? He didn't say the voices were coming out his speakers.

How else is audio voices coming out the back of his computer? And through out his house? He sure doesn't have SIP VIOP software in his CD player?

Just tell me how to get SIP VIOP software into my cd player?

73 OM

de n8zu

```
From 3273851338838056079
X-Google-Thread: 241b302a50,200e892aa95da980
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <547a2f1e-d012-44e8-b887-c10e39f5538d@h23g2000vbc.googlegroups.com>
<v28Xl.30871$VL5.12288@newsfe22.iad> <89d34c7d-1937-4e92-
a08b-08300cdf4cba@i6g2000yqj.googlegroups.com>
<you-5229E1.11455012062009@unknown.usenetserver.com> <75e02260-808d-47b1-
bf12-0500fbdeb724@d2g2000pra.googlegroups.com> <ve1hg6-iu1.ln1@mail.specsol.com>
<a4d47f63-e8dc-412e-bcc9-2d7397438465@w35g2000prg.googlegroups.com>
Subject: Re: Does anyone know anything about Voice above or over ip provider?
Lines: 47
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <m7wZl.1166$P5.755@nwrddc02.gnilink.net>
Date: Mon, 15 Jun 2009 18:09:22 GMT
NNTP-Posting-Host: 173.55.76.215
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1245089362 173.55.76.215 (Mon, 15 Jun 2009 14:09:22
EDT)
NNTP-Posting-Date: Mon, 15 Jun 2009 14:09:22 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2839
```

"raypsi" <RBorowiak@gmail.com> wrote in message
news:a4d47f63-e8dc-412e-bcc9-2d7397438465@w35g2000prg.googlegroups.com...
> On Jun 15, 1:15 am, j...@specsol.spam.sux.com wrote:
> > raypsi <RBorow...@gmail.com> wrote:
> > > On Jun 12, 3:45 pm, You <y...@shadow.orgs> wrote:
> >
> > >> there are plenty of Computer Apps that can demod VoIP streams,
> > >> and None of those are VoIP Boxes......
> >
> > > Hey OM:
> >
> > > Plenty? Name 5 of those so called computer apps.
> >
> > > 73 OM
> >
> > > de n8zu
> >
> > Go to freshmeat.net and type VOIP in the search box.
> >
>
> Hey OM:
>
> That's rich, a hacker putting a SIP program that can access a VIOP
> stream then somehow miraculously transduce the SIP VIOP into acoustic
> energy out the back of his computer.
>
> All those programs you need a sound card and speakers or headphones.
> But hey maybe the hacker is using the modulating the case fans to make
> audio out the back of his computer.? He didn't say the voices were
> coming out his speakers.
>
> How else is audio voices coming out the back of his computer? And
> through out his house? He sure doesn't have SIP VIOP software in his
> CD player?
>
> Just tell me how to get SIP VIOP software into my cd player?
>
> 73 OM
>
> de n8zu
>

It's not uncommon for AM radio or CB to be induced into wiring and
demodulated simply by rectification. The result may be strong enough to
activate computer or stereo speakers or the little transducer on dial-up
modem cards or even metal flashing in the house.

From 6919201680898058360
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet

```
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g15g2000pra.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Subject: Re: ExpressPCB to Gerber file converter?
Date: Mon, 15 Jun 2009 15:18:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 54
Message-ID: <1d7c600d-08b1-46dd-baeb-c2acc11634f2@g15g2000pra.googlegroups.com>
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
     <INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1245104302 4268 127.0.0.1 (15 Jun 2009 22:18:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 15 Jun 2009 22:18:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g15g2000pra.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.10)
     Gecko/2009042316 Firefox/3.0.10,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2840 sci.electronics.cad:2753

On Jun 13, 12:36=A0pm, "Leland C. Scott" <kc8...@arrl.net> wrote:
> "Harold E. Johnson" <W4...@mchsi.com> wrote in messagenews:INSYl.740928$y=
E1.253509@attbi_s21...
>
>
>
> > "Leland C. Scott" <kc8...@arrl.net> wrote in message
> >news:JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com...
> >> Does anybody have or know where to get a utility to convert from
> >> ExpressPCB file format to a standard Gerber file? If not any info on t=
he
> >> file format itself?
>
> > Yup. You can pay Express PCB for the file. (No utility) $75 the last ti=
me
> > I bought one.
>
> That's not going to happen. I know I can get some reverse engineering
> software that will import the layout as a graphic then trace over it usin=
g
> the PCB layout software to generate standard Gerber files. I'm looking fo=
r
> something easy and I'm not paying them $75 a pop for each small board to
> convert.
```

>
> I also found out there maybe some utilities out, still looking, there tha=
t
> can convert from an exported PDF, or EPS file, to a Gerber format too.
> Getting a PDF printer driver is easy. Use the driver when printing out a
> copy of the board layout.
>
> --
> Regards;
>
> Leland C. Scott
> KC8LDO
>
> "Brilliance is typically the act of an
> individual, but incredible stupidity
> can usually be traced to an
> organization."
>
> Jon Bentley

FWIW, I've been using FreePCB for layouts the past year or so, and find it's pretty well documented and easy to use. It produces Gerbers, and of course you already know that once you have those, you can find lots of different places to order boards, some faster than others, some cheaper than others. I do end up having to build footprints for FreePCB fairly often, but even that's not too bad, and once built, I have them for the future.

Cheers,
Tom

From 7189047237061986799
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!209.197.12.242.MISMATCH!nx01.iad01.newshosting.com!newshosting.com!news-out.octanews.net!indigo.octanews.net!news-1.mpls.iphouse.net.POSTED!not-for-mail
Date: Mon, 15 Jun 2009 20:32:40 -0500
From: tom <news4792@taring.org>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
     <eedf031f-c023-4a15-abea-8a3b22751339@r16g2000vbn.googlegroups.com>
     <Xns9C1CABF8C29B9greederxprtnet@194.177.98.144>
<TfJUl.67232$ho7.5840@newsfe10.iad>
<Xns9C1CE7992BD5Dgreederxprtnet@194.177.98.144>
<1fPUl.27886$c45.4537@nlpi065.nbdc.sbc.com>

```
<apd825dus5d4b11qnds099cop5270tkku8@4ax.com>
<c8740$4a2f0a87$18d6b40c$28826@KNOLOGY.NET> <a65b8b25-51d6-4b31-b8e0-
bd84c78417f7@g15g2000pra.googlegroups.com>
In-Reply-To: <a65b8b25-51d6-4b31-b8e0-bd84c78417f7@g15g2000pra.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 16
Message-ID: <4a36f638$0$18864$8046368a@newsreader.iphouse.net>
Organization: ipHouse - Welcome Home!
NNTP-Posting-Date: 15 Jun 2009 20:32:40 CDT
NNTP-Posting-Host: f577e449.newsreader.iphouse.net
X-Trace:
DXC==[1_k@A5^Y;Lc3:0\M=Qh<UU[C:R=]Mb:eHS>e[L>830o[3hJW>R[19WX@ab@3=d:0Zn2>YI<c?
B>aF08=0bTj[?
X-Complaints-To: abuse@iphouse.net
Xref: g2news2.google.com rec.radio.amateur.antenna:12827
rec.radio.amateur.homebrew:2841 alt.tv.tech.hdtv:18981

stan wrote:

> It was identifying the reflection of radio signals from a flying
> aircraft that led to the development and use of radar.
> Radar was major factor in the successful defence of Britain (Britain
> 1940) against German bombing (The Blitz) early in WWII (1939-1945).
> Although it was initially very crude, (It was called Radio-location or
> RDF, Radio Direction Finding) at the time.
> Unfortunately the first war time US use of radar was misinterpreted
> when the Japanese attacked Pearl Harbour  in Dec 1941!

Actually it was blocking of a radio transmission by ships passing on a
river that led to the development of radar.

tom
K0TAR


From 4099545388713773791
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 15 Jun 2009 23:06:45 -0500
Reply-To: "Leland C. Scott" <kc8ldo@arrl.net>
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
<INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com> <1d7c600d-08b1-46dd-baeb-
c2acc11634f2@g15g2000pra.googlegroups.com>
Subject: Re: ExpressPCB to Gerber file converter?
```

```
Date: Tue, 16 Jun 2009 00:06:40 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <V_idnbb_aubIh6rXnZ2dnUVZ_umdnZ2d@giganews.com>
Lines: 75
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
PDYM7qzKySeqlCnYkdqhTgLMQI3ZUhAR120YQtWRqMdMCGk8T822zvGYkVzQSDkAbxS4AOPDwWlMqQV!
9B9bKqOm4PB00S1BHDAvPEwxHxiVKYAR7KQOuKRiWhV5G05oY+6jc+ieWU6DVwRF9Sxseak=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 3882
Xref: g2news2.google.com rec.radio.amateur.homebrew:2842 sci.electronics.cad:2754

Great. Thanks for the input. One other thing. I have a buddy who was looking
for a free Gerber editor for making minor artwork changes. He had some
boards done outside and needs to make some changes to fix a few boo-boos
when he did the design. You know of any? He only has Windows. I run Windows
and Linux so either would work. I could make the changes for him.

--
Regards;

Leland C. Scott
KC8LDO

"The most reliable components are
 the ones you leave out."

By Gordon Bell, father of the
minicomputer at DEC.



"K7ITM" <k7itm@msn.com> wrote in message
news:1d7c600d-08b1-46dd-baeb-c2acc11634f2@g15g2000pra.googlegroups.com...
On Jun 13, 12:36 pm, "Leland C. Scott" <kc8...@arrl.net> wrote:
> "Harold E. Johnson" <W4...@mchsi.com> wrote in
> messagenews:INSYl.740928$yE1.253509@attbi_s21...
>
>
>
> > "Leland C. Scott" <kc8...@arrl.net> wrote in message
> >news:JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com...
> >> Does anybody have or know where to get a utility to convert from
> >> ExpressPCB file format to a standard Gerber file? If not any info on
```

> >> the
> >> file format itself?
>
> > Yup. You can pay Express PCB for the file. (No utility) $75 the last
> > time
> > I bought one.
>
> That's not going to happen. I know I can get some reverse engineering
> software that will import the layout as a graphic then trace over it using
> the PCB layout software to generate standard Gerber files. I'm looking for
> something easy and I'm not paying them $75 a pop for each small board to
> convert.
>
> I also found out there maybe some utilities out, still looking, there that
> can convert from an exported PDF, or EPS file, to a Gerber format too.
> Getting a PDF printer driver is easy. Use the driver when printing out a
> copy of the board layout.
>
> --
> Regards;
>
> Leland C. Scott
> KC8LDO
>
> "Brilliance is typically the act of an
> individual, but incredible stupidity
> can usually be traced to an
> organization."
>
> Jon Bentley

FWIW, I've been using FreePCB for layouts the past year or so, and find it's pretty well documented and easy to use. It produces Gerbers, and of course you already know that once you have those, you can find lots of different places to order boards, some faster than others, some cheaper than others. I do end up having to build footprints for FreePCB fairly often, but even that's not too bad, and once built, I have them for the future.

Cheers,
Tom

From -8460185664897416373
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!x5g2000yqk.googlegroups.com!not-for-mail
From: JeffM <jeffm_@email.com>

```
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Subject: Re: ExpressPCB to Gerber file converter?
Date: Mon, 15 Jun 2009 21:40:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <9f6d3303-beb7-4aba-8c82-9caaaa662c36@x5g2000yqk.googlegroups.com>
References:
<JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com><INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com>
     <h-KdncQ1TbGa_qnXnZ2dnUVZ_ohi4p2d@web-ster.com> <u-6dnYjDg-
lZF6jXnZ2dnUVZ_r6dnZ2d@giganews.com>
NNTP-Posting-Host: 198.147.225.39
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1245127228 29214 127.0.0.1 (16 Jun 2009 04:40:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 16 Jun 2009 04:40:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x5g2000yqk.googlegroups.com; posting-host=198.147.225.39;
     posting-account=zOSGNAkAAACodzv53qV0nau9KezQHGvD
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2)
     Gecko/20040803,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2843 sci.electronics.cad:2755

>Tim Wescott
>>Reverse the "Express" and the "PCB" and you'll find a really nice
>>little company that will take Gerber files and make boards for you.
>>Eagle PCB is free for small two-layer boards, includes
>>schematic capture, and works well
>>once you get your brain wrapped around their way of doing things.
>>
Leland C. Scott wrote:
>I'm going to check them out. I do some small one-off PCB's
>to test some ideas out. I would like to have the Gerber files
>when I'm done in case I want to incorporate it in a larger design.

When someone gets hot to trot for the Cadsoft product,
I like to remind him that he may find the same situation:
*His* work product tied up in **their** proprietary format:

The Downside of EAGLE  aka ''The EAGLE virus'' by Markus Zingg
http://groups.google.com/group/comp.arch.embedded/browse_frm/thread/f794e82=
d26b59e18/d7cf4149edb93ac7?q=3D*-*-website+reuse+paying.*+*-I-will-switch+c=
racked-*+*.would.not.help.*+zzz+after-*-*-version-*+copied+*.*.unlock.*.des=
igns+*-*-*-*-exchange-*-*-*-*-third-party+reused+qq+*-*-single-bit-*-*-*-*+=
useless+*-*-*-projects-could-no-longer-be-opened


From -6655791689525964941
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
```

```
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!fu-berlin.de!
uni-berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Date: 16 Jun 2009 13:42:30 GMT
Lines: 22
Message-ID: <slrnh3f8a6.10mt.bit-bucket@shell.config.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net> <eedf031f-
c023-4a15-abea-8a3b22751339@r16g2000vbn.googlegroups.com>
<Xns9C1CABF8C29B9greederxprtnet@194.177.98.144>
<TfJUl.67232$ho7.5840@newsfe10.iad>
<Xns9C1CE7992BD5Dgreederxprtnet@194.177.98.144>
<1fPUl.27886$c45.4537@nlpi065.nbdc.sbc.com>
<apd825dus5d4b11qnds099cop5270tkku8@4ax.com>
<c8740$4a2f0a87$18d6b40c$28826@KNOLOGY.NET> <a65b8b25-51d6-4b31-b8e0-
bd84c78417f7@g15g2000pra.googlegroups.com>
<4a36f638$0$18864$8046368a@newsreader.iphouse.net>
Reply-To: If you must, <Reply_to@my.sig.adr>
X-Trace: individual.net Ca1s8+JfaJvIPFlu/L2SkAQDf74bkvJZssTswKLGDWrlVj+rZS
Cancel-Lock: sha1:E0/IerxeSzg5i/AT/vzSwF2i2Lc=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news2.google.com rec.radio.amateur.antenna:12829
rec.radio.amateur.homebrew:2844 alt.tv.tech.hdtv:19001

On Mon, 15 Jun 2009 20:32:40 -0500, tom wrote:
> stan wrote:
>
>> It was identifying the reflection of radio signals from a flying
>> aircraft that led to the development and use of radar.
>> Radar was major factor in the successful defence of Britain (Britain
>> 1940) against German bombing (The Blitz) early in WWII (1939-1945).
>> Although it was initially very crude, (It was called Radio-location or
>> RDF, Radio Direction Finding) at the time.
>> Unfortunately the first war time US use of radar was misinterpreted
>> when the Japanese attacked Pearl Harbour  in Dec 1941!
>
> Actually it was blocking of a radio transmission by ships passing on a
> river that led to the development of radar.

The Potomac --  I think that's what I read about it.

Jonesy
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    * Killfiling google & XXXXbanter.com: jonz.net/ng.htm


From 9082089158293106197
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
```

X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!w40g2000yqd.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Subject: Re: ExpressPCB to Gerber file converter?
Date: Tue, 16 Jun 2009 10:04:47 -0700 (PDT)
Organization: http://groups.google.com
Lines: 30
Message-ID: <4cb8be89-5209-4c67-be77-65015d644d63@w40g2000yqd.googlegroups.com>
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
     <INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com>
     <1d7c600d-08b1-46dd-baeb-c2acc11634f2@g15g2000pra.googlegroups.com>
     <V_idnbb_aubIh6rXnZ2dnUVZ_umdnZ2d@giganews.com>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1245171887 22022 127.0.0.1 (16 Jun 2009 17:04:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 16 Jun 2009 17:04:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w40g2000yqd.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.11)
     Gecko/2009060215 Firefox/3.0.11,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2845 sci.electronics.cad:2765

On Jun 15, 9:06=A0pm, "Leland C. Scott" <kc8...@arrl.net> wrote:
> Great. Thanks for the input. One other thing. I have a buddy who was look=
ing
> for a free Gerber editor for making minor artwork changes. He had some
> boards done outside and needs to make some changes to fix a few boo-boos
> when he did the design. You know of any? He only has Windows. I run Windo=
ws
> and Linux so either would work. I could make the changes for him.

...
Well, I'm using ViewMate from PentaLogix. I don't do anything very complex with it, basically just view my FreePCB outputs to make sure everything is OK. I also use it to print the Gerbers for assembly documentation and to make my own boards at home--I like the immediacy of being able to make a board in an hour or two. ViewMate's free... BUT it won't let you save changes. You have to spring for the upgrade to ViewMaster EZ for $50 to be able to save (and do some other things). There may be free solutions, but since ViewMate does what I need, I haven't gone looking for them.

For fixing boo-boos, I'd a lot rather go back to the PC design program
and make the changes there, rather than hand-editing Gerbers, but I
suppose there are good reasons to modify the Gerbers directly. I do
recall some hassles trying to get my layout program do what I wanted
with a solder mask recently, and was really tempted to try to modify
the Gerbers!

Cheers,
Tom

From -8946364966988047784
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 16 Jun 2009 12:15:45 -0500
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Date: Tue, 16 Jun 2009 10:15:44 -0700
Message-ID: <h2jf355h4guhvit8po0ngq5jfhbcn2s5ss@4ax.com>
References: <eedf031f-c023-4a15-abea-8a3b22751339@r16g2000vbn.googlegroups.com>
     <Xns9C1CABF8C29B9greederxprtnet@194.177.98.144>
<TfJUl.67232$ho7.5840@newsfe10.iad>
<Xns9C1CE7992BD5Dgreederxprtnet@194.177.98.144>
<1fPUl.27886$c45.4537@nlpi065.nbdc.sbc.com>
<apd825dus5d4b11qnds099cop5270tkku8@4ax.com>
<c8740$4a2f0a87$18d6b40c$28826@KNOLOGY.NET> <a65b8b25-51d6-4b31-b8e0-
bd84c78417f7@g15g2000pra.googlegroups.com>
<4a36f638$0$18864$8046368a@newsreader.iphouse.net>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 42
X-Trace: sv3-t4UCMVoO6XxkJ/
m36v3XscS3hB0gcDsSCDJ60apwdvvtiMEV0Q14zg2lwA79RUb9gxRL41qBKccFDUT!
QnhOIVyldEv1AlGRdOZ7bHhtdiG/gkuIBSD/LRy4WMx8sZ1RDpvqC71l10aUnRbh+JguNdcgE3bJ!y/
lzWg==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 3474
Xref: g2news2.google.com rec.radio.amateur.antenna:12830
rec.radio.amateur.homebrew:2846 alt.tv.tech.hdtv:19006

On Mon, 15 Jun 2009 20:32:40 -0500, tom <news4792@taring.org> wrote:

>stan wrote:

>
>> It was identifying the reflection of radio signals from a flying
>> aircraft that led to the development and use of radar.
>> Radar was major factor in the successful defence of Britain (Britain
>> 1940) against German bombing (The Blitz) early in WWII (1939-1945).
>> Although it was initially very crude, (It was called Radio-location or
>> RDF, Radio Direction Finding) at the time.
>> Unfortunately the first war time US use of radar was misinterpreted
>> when the Japanese attacked Pearl Harbour in Dec 1941!
>
>Actually it was blocking of a radio transmission by ships passing on a
>river that led to the development of radar.
>
>tom
>K0TAR

RF blocking was used by both sides as a "burglar alarm" to detect
naval vessels passing through narrow straights. Germany tried to get
such a system working across the Straits of Gibraltar, but were foiled
by Spain's failure to cooperate.

Radar was officially "invented" in 1935 when Watson-Watt was asked by
the air ministry to calculate the possibility of using RF as a "death
ray" to cook an airplane pilot in flight. Some calculations were
performed which quickly determined that it was impossible. However,
he suggested that a similar system could be used to detect the
airplane by combining the range finding of ionospheric layers
techniques and the direction finding techniques used to detect
thunderstorms. At the time, there were also proposals for aircraft
detection using infrared and sound detection. Not wanting to lose
their funding, it was agreed that RF reflection was a good idea and
that research should continue on this different path.

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From -7292219729707081158
X-Google-Thread: 241b302a50,200e892aa95da980
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!x6g2000vbg.googlegroups.com!not-for-mail
From: stan <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Does anyone know anything about Voice above or over ip provider?
Date: Tue, 16 Jun 2009 12:58:43 -0700 (PDT)
Organization: http://groups.google.com

```
Lines: 89
Message-ID: <ec788305-bc77-4a43-9669-dcb56ac092ef@x6g2000vbg.googlegroups.com>
References: <547a2f1e-d012-44e8-b887-c10e39f5538d@h23g2000vbc.googlegroups.com>
     <MPG.24941edd678f499e9896d9@news.bcsupernet.com> <v2jqf6-
b85.ln1@radagast.org>
NNTP-Posting-Host: 142.162.128.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1245182323 23713 127.0.0.1 (16 Jun 2009 19:58:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 16 Jun 2009 19:58:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x6g2000vbg.googlegroups.com; posting-host=142.162.128.246;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2847

On Jun 6, 2:45=A0pm, dpl...@radagast.org (Dave Platt) wrote:
> > I have been getting sounds in our house that seems to come from
> > electronic stuff around the house.
> > I also listened to what sounded like voices coming from behind the
> > computer?
>
> Voices coming out of loudspeakers or other electronic equipment which
> contains them, can occur as the result of strong radio frequency
> signals. =A0A strong enough RF signal, modulated by someone's voice, can
> be picked up by the household wiring (mains cables, telephone wire,
> speaker cables, etc.) and leak into the electronic equipment. =A0Once
> inside the equipment, it can be accidentally "detected" (converted
> from radio frequencies back to audio) by semiconductors in the
> circuitry, amplified, and played out through the equipment's speakers.
>
> Telephones, answering machines, baby monitors, powered subwoofers,
> computer speaker systems, etc. can all be prone to this. =A0I suppose
> that an internal modem card in a PC - one with a loudspeaker - could
> pick up enough RF via its phone-line connection to start detecting
> audio in this way.
>
> The strong RF signal might come from any of a number of sources... all
> probably fairly close to the house. =A0Commercial AM transmitters can
> cause this, as can ham-radio transmitters, and CB radios. =A0Here in the
> U.S., *legal* CB transmissions usually aren't strong enough to cause
> problems, but some CB operators use illegal high-power amplifiers that
> can boost the signal far enough to cause this sort of inadvertent
> pickup.
>
> I don't know what the law is about this sort of problem in Canada.
> Here in the U.S., the FCC generally considers it to be a defect in the
> equipment which is picking up the RF - if a device isn't *supposed* to
> be a radio, it shouldn't *behave" like a radio, is their thinking.
```

> It's referred to as "undesired operation", and the "Part 15" notice
> which comes with most consumer electronic devices says that the device
> "must accept radio frequency interference, including that which causes
> undesired operation."
>
> There are several ways to address the problem:
>
> - =A0Replace the RF-sensitive devices with better-designed devices that
> =A0 =A0don't have the problem.
>
> - =A0Add RF filters or chokes to the phone lines, speaker cables, power
> =A0 =A0lines, etc. to block the RF before it enters the equipment.
>
> - =A0Find the person or company whose transmitters are generating the RF,
> =A0 =A0and ask them to stop (they'll probably refuse, as they often have
> =A0 =A0a perfectly good legal license to transmit).
>
> - =A0Live with it.
>
> - =A0Move.
>
> If you can find which pieces of equipment are picking up the RF (and,
> in doing so, confirm that this is the problem) you can likely correct
> the problem with some clamp-on ferrite chokes, and/or a telephone-line
> RF filter (a DSL mini-filter may well do the job).
>
> Seehttp://www.palomar-engineers.com/RFI_Kit/rfi_kit.htmlfor a kit of
> ferrite components specifically intended for this sort of household
> problem.
>
> I'm not sure what connection there might be between the voices/noises
> you are hearing, and any "voice over IP provider". =A0Your message isn't
> clear whether you actually have telephone service over IP, or whether
> you think someone else's voice-over-IP service is affecting you
> accidentally (very unlikely, in my opinion).
>
> --
> Dave Platt <dpl...@radagast.org> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =
=A0 =A0 =A0 =A0 =A0 =A0 =A0 AE6EO
> Friends of Jade Warrior home page: =A0http://www.radagast.org/jade-warrio=
r
> =A0 I do _not_ wish to receive unsolicited commercial email, and I will
> =A0 =A0 =A0boycott any company which has the gall to send me such ads!

Agree with all of that. Even 'back when' stories abounded about people
picking up radio transmissions on all kinds of unlikely devices; one
was about a lady who 'received' faint radio signals radio on her
electric heater. The outcome was that a corroded connection was acting
as a detector (like in an old time crystal radio set) the coiled
heating element was an inductor and the metal case of the heater was
a sound box! When it was investigated she said she "Didn't mind a bit
and in fact thought it was quite entertaining"!
Today there are so many solid state devices around any home that one

wouldn't be surprised if one could 'hear' things from a ceiling fan,
dimmer switch, or certainly something with audio amplification such as
computer speakers!

```
From 1745849309079783653
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k8g2000yqn.googlegroups.com!not-for-
mail
From: Leon <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Subject: Re: ExpressPCB to Gerber file converter?
Date: Tue, 16 Jun 2009 15:57:52 -0700 (PDT)
Organization: http://groups.google.com
Lines: 11
Message-ID: <5fd970fa-feb9-41b1-b078-e9960f0de82e@k8g2000yqn.googlegroups.com>
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
     <INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com>
     <1d7c600d-08b1-46dd-baeb-c2acc11634f2@g15g2000pra.googlegroups.com>
     <V_idnbb_aubIh6rXnZ2dnUVZ_umdnZ2d@giganews.com>
NNTP-Posting-Host: 81.159.176.69
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1245193079 5931 127.0.0.1 (16 Jun 2009 22:57:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 16 Jun 2009 22:57:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k8g2000yqn.googlegroups.com; posting-host=81.159.176.69;
     posting-account=QWZLZQkAAADFmB_RJlmk3T-GvINRaZti
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.0.11)
     Gecko/2009060215 Firefox/3.0.11,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2848 sci.electronics.cad:2770
```

On 16 June, 05:06, "Leland C. Scott" <kc8...@arrl.net> wrote:
> Great. Thanks for the input. One other thing. I have a buddy who was looking
> for a free Gerber editor for making minor artwork changes. He had some
> boards done outside and needs to make some changes to fix a few boo-boos
> when he did the design. You know of any? He only has Windows. I run Windows
> and Linux so either would work. I could make the changes for him.

The Pulsonix software I use has can import Gerber files and edit them,
but it isn't free.

Leon

```
From -2420316101359591610
```

```
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 16 Jun 2009 18:02:12 -0500
Reply-To: "Leland C. Scott" <kc8ldo@arrl.net>
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
<INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com> <1d7c600d-08b1-46dd-baeb-
c2acc11634f2@g15g2000pra.googlegroups.com>
<V_idnbb_aubIh6rXnZ2dnUVZ_umdnZ2d@giganews.com> <4cb8be89-5209-4c67-
be77-65015d644d63@w40g2000yqd.googlegroups.com>
Subject: Re: ExpressPCB to Gerber file converter?
Date: Tue, 16 Jun 2009 19:02:05 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <R8WdnahE4qDpuaXXnZ2dnUVZ_sydnZ2d@giganews.com>
Lines: 59
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-JMbD/
LVevt3d9KAi6JUyoKj8L9ktdQKNIB4Q09WFFC+ycaDYKhM3WVHJhn+oySbobKnrNCGWoD+CHYK!
BMBNa+OyLD1a/2Qc2IDXYwXc8HuDTGcOCrXMCud5eh9NvRQdCaemzalMFMQiweBvTyJ+khdh97Y=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 3653
Xref: g2news2.google.com rec.radio.amateur.homebrew:2849 sci.electronics.cad:2771
```

Tom;

I understand your points. My buddy does not have access to the software that was used for the layout. That's why he wanted the Gerber editor.

What I have found so far is a free (GPL'd) Gerber file viewer, no editor.

http://gerbv.sourceforge.net/

There are both Windows and Linux versions available for down load. It has a few bugs but so far as a viewer it works remarkably well.

--

Regards;

Leland C. Scott
KC8LDO

"Brilliance is typically the act of an
individual, but incredible stupidity
can usually be traced to an
organization."

Jon Bentley

"K7ITM" <k7itm@msn.com> wrote in message
news:4cb8be89-5209-4c67-be77-65015d644d63@w40g2000yqd.googlegroups.com...
On Jun 15, 9:06 pm, "Leland C. Scott" <kc8...@arrl.net> wrote:
> Great. Thanks for the input. One other thing. I have a buddy who was
> looking
> for a free Gerber editor for making minor artwork changes. He had some
> boards done outside and needs to make some changes to fix a few boo-boos
> when he did the design. You know of any? He only has Windows. I run
> Windows
> and Linux so either would work. I could make the changes for him.

...
Well, I'm using ViewMate from PentaLogix. I don't do anything very
complex with it, basically just view my FreePCB outputs to make sure
everything is OK. I also use it to print the Gerbers for assembly
documentation and to make my own boards at home--I like the immediacy
of being able to make a board in an hour or two. ViewMate's free...
BUT it won't let you save changes. You have to spring for the upgrade
to ViewMaster EZ for $50 to be able to save (and do some other
things). There may be free solutions, but since ViewMate does what I
need, I haven't gone looking for them.

For fixing boo-boos, I'd a lot rather go back to the PC design program
and make the changes there, rather than hand-editing Gerbers, but I
suppose there are good reasons to modify the Gerbers directly. I do
recall some hassles trying to get my layout program do what I wanted
with a solder mask recently, and was really tempted to try to modify
the Gerbers!

Cheers,
Tom

From -6319821377340627129
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 16 Jun 2009 18:19:08 -0500
Reply-To: "Leland C. Scott" <kc8ldo@arrl.net>
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
References:
<JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com><INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com> <h-
KdncQ1TbGa_qnXnZ2dnUVZ_ohi4p2d@web-ster.com> <u-6dnYjDg-
lZF6jXnZ2dnUVZ_r6dnZ2d@giganews.com> <9f6d3303-
beb7-4aba-8c82-9caaaa662c36@x5g2000yqk.googlegroups.com>
Subject: Re: ExpressPCB to Gerber file converter?
Date: Tue, 16 Jun 2009 19:19:00 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <XY-dnTvrKOrxtaXXnZ2dnUVZ_t2dnZ2d@giganews.com>
Lines: 36
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
VeSGJolR1R+7VZpE0QAay3XbhYYl47n5mDmVWrp4GjqlK7lXznSfsYpXtnEsazFPUUNw0LnmRNeOEqN!
O6ic23raGgf87PNR+V4Zm1jJu8njnoZJbALiv0xeh0OJYSsjLK7Q5z9+5XatNZrIP9zGuEC4J2s=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2328
Xref: g2news2.google.com rec.radio.amateur.homebrew:2850 sci.electronics.cad:2772

"JeffM" <jeffm_@email.com> wrote in message
news:9f6d3303-beb7-4aba-8c82-9caaaa662c36@x5g2000yqk.googlegroups.com...
>When someone gets hot to trot for the Cadsoft product,
>I like to remind him that he may find the same situation:
>*His* work product tied up in **their** proprietary format:

Boo! Hiss! Kick the dog. Well the dog isn't to blame , maybe not a good idea to kick it.

Check this out.

http://gerbv.sourceforge.net/

http://pcb.gpleda.org/news.html#20090202

http://www.gpleda.org/index.html

I haven't tried out most of these tools. It would be interesting to get somebody's comments who has used them for a project.

--
Regards;

Leland C. Scott
KC8LDO

"Brilliance is typically the act of an
individual, but incredible stupidity
can usually be traced to an
organization."

Jon Bentley

```
From -4592041183357441532
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!bigfeed3.bellsouth.net!
news.bellsouth.net!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!nntp.megapath.net!news.megapath.net.POSTED!not-for-
mail
NNTP-Posting-Date: Tue, 16 Jun 2009 18:43:27 -0500
X-newsreader: xrn 9.02
X-Sender: murray@glypnod (Hal Murray)
From: hal-usenet@ip-64-139-1-69.sjc.megapath.net (Hal Murray)
Subject: Re: ExpressPCB to Gerber file converter?
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
<INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com> <1d7c600d-08b1-46dd-baeb-
c2acc11634f2@g15g2000pra.googlegroups.com>
<V_idnbb_aubIh6rXnZ2dnUVZ_umdnZ2d@giganews.com> <4cb8be89-5209-4c67-
be77-65015d644d63@w40g2000yqd.googlegroups.com>
<R8WdnahE4qDpuaXXnZ2dnUVZ_sydnZ2d@giganews.com>
Message-ID: <WMKdnZGBOo69s6XXnZ2dnUVZ_r5i4p2d@megapath.net>
Date: Tue, 16 Jun 2009 18:43:28 -0500
Lines: 12
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.139.1.69
X-Trace: sv3-9mgHM+EjDUwj0TaCgmOaSkkoOIwatvUf/
RlEJufuY1m4f6C514VewHp44UhDnKUzPu5JoDJMsx8G5/h!
asn0N+6Ka0sAS5E001yroOwK5PmJ0C9pqeQmMbQrSKrwdKkVqmqZX1xCKsTOODG+BKMYGlPZ5PPK!
MvAfcHQzWQPa
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2851 sci.electronics.cad:2773

>What I have found so far is a free (GPL'd) Gerber file viewer, no editor.

How much editing do you want to do?

Gerber files are just text. You can edit with a normal text editor.
As long as you have a good viewer you can see if your edits did what
you want.

--
These are my opinions, not necessarily my employer's. I hate spam.

From -3766510085097067827
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 16 Jun 2009 20:03:41 -0500
Reply-To: "Leland C. Scott" <kc8ldo@arrl.net>
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
<INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com> <1d7c600d-08b1-46dd-baeb-
c2acc11634f2@g15g2000pra.googlegroups.com>
<V_idnbb_aubIh6rXnZ2dnUVZ_umdnZ2d@giganews.com> <4cb8be89-5209-4c67-
be77-65015d644d63@w40g2000yqd.googlegroups.com>
<R8WdnahE4qDpuaXXnZ2dnUVZ_sydnZ2d@giganews.com>
<WMKdnZGBOo69s6XXnZ2dnUVZ_r5i4p2d@megapath.net>
Subject: Re: ExpressPCB to Gerber file converter?
Date: Tue, 16 Jun 2009 21:03:35 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <9ZmdneaPuo1w3aXXnZ2dnUVZ_rednZ2d@giganews.com>
Lines: 35
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Dq3muXTFNW+a1XKe4R1KwmYRcYOw2L/rdUITgzAjzoiB36HHMJhkVgnyrAYo5yVrDNf/
DomdZSRHWS3!fBiQBoLZiYefzqAa8g/eTA7klBdl4wk/5fqIsgS8PcJ0zHEMcoSrmRa69fV/
347Jpsx4FJ4G0ko=
X-Complaints-To: abuse@giganews.com

X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2486
Xref: g2news2.google.com rec.radio.amateur.homebrew:2852 sci.electronics.cad:2774

Hal;

May have to reroute a few traces that cross a significant length of the
board to fix some design errors. I haven't looked at the raw Gerber files to
see how easy doing the editing by hand word be to do.

--
Regards;

Leland C. Scott
KC8LDO

"The most reliable components are
 the ones you leave out."

By Gordon Bell, father of the
minicomputer at DEC.

"Hal Murray" <hal-usenet@ip-64-139-1-69.sjc.megapath.net> wrote in message
news:WMKdnZGBOo69s6XXnZ2dnUVZ_r5i4p2d@megapath.net...
>
>>What I have found so far is a free (GPL'd) Gerber file viewer, no editor.
>
> How much editing do you want to do?
>
> Gerber files are just text. You can edit with a normal text editor.
> As long as you have a good viewer you can see if your edits did what
> you want.
>
> --
> These are my opinions, not necessarily my employer's. I hate spam.
>

From -7361065945522341945
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!nx01.iad01.newshosting.com!newshosting.com!216.196.98.140.MISMATCH!

border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 16 Jun 2009 20:10:57 -0500
Reply-To: "Leland C. Scott" <kc8ldo@arrl.net>
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
<INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com> <1d7c600d-08b1-46dd-baeb-c2acc11634f2@g15g2000pra.googlegroups.com>
<V_idnbb_aubIh6rXnZ2dnUVZ_umdnZ2d@giganews.com> <5fd970fa-feb9-41b1-b078-e9960f0de82e@k8g2000yqn.googlegroups.com>
Subject: Re: ExpressPCB to Gerber file converter?
Date: Tue, 16 Jun 2009 21:10:52 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <kL6dneya5b4836XXnZ2dnUVZ_vSdnZ2d@giganews.com>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
X-Trace:
sv3-3YLZY210G4PIuk4Zk2RMybYJlcD4j0rDrbTn5jMOzkPBNXRHNjrXnH3JzdKMsvqgGXoDQRcjISMyUZ
j!V4BT7XqU6bDLY1N5YOsjclzAsMCPqKcLNWekKyY4/XV3tmILsdObflONgz1ndGForhl0BKuRvyk=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2032
Xref: g2news2.google.com rec.radio.amateur.homebrew:2853 sci.electronics.cad:2775

"Leon" <leon355@btinternet.com> wrote in message
news:5fd970fa-feb9-41b1-b078-e9960f0de82e@k8g2000yqn.googlegroups.com...
>
> The Pulsonix software I use has can import Gerber files and edit them,
> but it isn't free.

You have a rough idea as to the cost for the bare-bones PCB core? I didn't see any prices on the web sites from a quick look..

--
Regards;

Leland C. Scott
KC8LDO

"The most reliable components are
the ones you leave out."

By Gordon Bell, father of the
minicomputer at DEC.

```
From 6376533859034911548
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!
news2.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!
easynews.com!en-nntp-03.dc1.easynews.com.POSTED!not-for-mail
From: "JosephKK"<quiettechblue@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Subject: Re: ExpressPCB to Gerber file converter?
Reply-To: "JosephKK"<quiettechblue@yahoo.com>
Message-ID: <k0qg35lm3i3g9fsuvi0nbtq2di5cgst2go@4ax.com>
References:
<JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com><INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com>  <h-
KdncQ1TbGa_qnXnZ2dnUVZ_ohi4p2d@web-ster.com> <u-6dnYjDg-
lZF6jXnZ2dnUVZ_r6dnZ2d@giganews.com> <9f6d3303-
beb7-4aba-8c82-9caaaa662c36@x5g2000yqk.googlegroups.com>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable
Lines: 27
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Tue, 16 Jun 2009 20:52:00 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2854 sci.electronics.cad:2776

On Mon, 15 Jun 2009 21:40:28 -0700 (PDT), JeffM <jeffm_@email.com>
wrote:

>>Tim Wescott
>>>Reverse the "Express" and the "PCB" and you'll find a really nice
>>>little company that will take Gerber files and make boards for you.
>>>Eagle PCB is free for small two-layer boards, includes
>>>schematic capture, and works well
>>>once you get your brain wrapped around their way of doing things.
>>>
>Leland C. Scott wrote:
>>I'm going to check them out. I do some small one-off PCB's
>>to test some ideas out. I would like to have the Gerber files
>>when I'm done in case I want to incorporate it in a larger design.
```

>
>When someone gets hot to trot for the Cadsoft product,
>I like to remind him that he may find the same situation:
>*His* work product tied up in **their** proprietary format:
>
>The Downside of EAGLE aka ''The EAGLE virus'' by Markus Zingg
>http://groups.google.com/group/comp.arch.embedded/browse_frm/thread/f794=
e82d26b59e18/d7cf4149edb93ac7?q=3D*-*-website+reuse+paying.*+*-I-will-swi=
tch+cracked-*+*.would.not.help.*+zzz+after-*-*-version-*+copied+*.*.unloc=
k.*.designs+*-*-*-*-exchange-*-*-*-*-third-party+reused+qq+*-*-single-bit=
-*-*-*-*+useless+*-*-*-projects-could-no-longer-be-opened

Poxy hell mate. Have you never heard of tinyURL?

From -369593453265249022
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news2.google.com!news.glorb.com!
news2.glorb.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!
nntp.giganews.com!backlog2.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 17 Jun 2009 00:00:43 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: ExpressPCB to Gerber file converter?
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
<INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com>
<h-KdncQ1TbGa_qnXnZ2dnUVZ_ohi4p2d@web-ster.com>
<u-6dnYjDg-lZF6jXnZ2dnUVZ_r6dnZ2d@giganews.com>
<9f6d3303-beb7-4aba-8c82-9caaaa662c36@x5g2000yqk.googlegroups.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <OtidnTxsbo3h5aXXnZ2dnUVZ_uidnZ2d@web-ster.com>
Date: Wed, 17 Jun 2009 00:00:44 -0500
Lines: 32
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X-Trace: sv3-kJIJA7oLZJj9WLmIGkiMGdq6BiAWUJqThf6zs/WIsH45+
+F1KLstnWXUKtGQPSlHzKSlMKLvR9MPruO!yfDWzzTycEOIb3dvJGc9RHBwMb5qW0jnfT8BMs27/
lAfu+pV8az9PO+RryeS7U/LS2mHfALuZkIL!lD2v6N8H5gxj0E0=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2723
Xref: g2news2.google.com rec.radio.amateur.homebrew:2855 sci.electronics.cad:2777

On Mon, 15 Jun 2009 21:40:28 -0700, JeffM wrote:

```
>>Tim Wescott
>>>Reverse the "Express" and the "PCB" and you'll find a really nice
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>>>capture, and works well
>>>once you get your brain wrapped around their way of doing things.
>>>
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>
> When someone gets hot to trot for the Cadsoft product, I like to remind
> him that he may find the same situation: *His* work product tied up in
> **their** proprietary format:
>
> The Downside of EAGLE  aka ''The EAGLE virus'' by Markus Zingg
> http://groups.google.com/group/comp.arch.embedded/browse_frm/thread/
f794e82d26b59e18/d7cf4149edb93ac7?q=*-*-website+reuse+paying.*+*-I-will-
switch+cracked-*+*.would.not.help.*+zzz+after-*-*-version-*+copied
+*.*.unlock.*.designs+*-*-*-*-exchange-*-*-*-*-third-party+reused+qq+*-*-
single-bit-*-*-*-*+useless+*-*-*-projects-could-no-longer-be-opened

Ah, I forgot about that issue.

So, any _other_ PCB layout program that coughs up a Gerber.  Or be
careful of what you copy into your schematics.

--
www.wescottdesign.com


From 8563134109886583889
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed3.bellsouth.net!
news.bellsouth.net!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!nntp.megapath.net!news.megapath.net.POSTED!not-for-
mail
NNTP-Posting-Date: Wed, 17 Jun 2009 02:48:54 -0500
X-newsreader: xrn 9.02
X-Sender: murray@glypnod (Hal Murray)
From: hal-usenet@ip-64-139-1-69.sjc.megapath.net (Hal Murray)
Subject: Re: ExpressPCB to Gerber file converter?
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
<INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com> <1d7c600d-08b1-46dd-baeb-
c2acc11634f2@g15g2000pra.googlegroups.com>
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<V_idnbb_aubIh6rXnZ2dnUVZ_umdnZ2d@giganews.com> <4cb8be89-5209-4c67-
be77-65015d644d63@w40g2000yqd.googlegroups.com>
<R8WdnahE4qDpuaXXnZ2dnUVZ_sydnZ2d@giganews.com>
<WMKdnZGBOo69s6XXnZ2dnUVZ_r5i4p2d@megapath.net>
<9ZmdneaPuo1w3aXXnZ2dnUVZ_rednZ2d@giganews.com>
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Date: Wed, 17 Jun 2009 02:48:54 -0500
Lines: 21
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NNTP-Posting-Host: 64.139.1.69
X-Trace: sv3-PqZzI0LOdlZkTmPMcep2nHVpOzDDqijcBugLL92ro78uCSnAT8/
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E6qnlCdneziSoe+Z8UidvdkoyNffAqmnT+E51Te8Q0XupQVW4J42Pzsu54x6IjsovhdNOJqULx4e!
m8oiR0JEM2oV
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2856 sci.electronics.cad:2778

In article <9ZmdneaPuo1w3aXXnZ2dnUVZ_rednZ2d@giganews.com>,
"Leland C. Scott" <kc8ldo@arrl.net> writes:
>Hal;
>
>May have to reroute a few traces that cross a significant length of the
>board to fix some design errors. I haven't looked at the raw Gerber files to
>see how easy doing the editing by hand word be to do.

It's not the length that matters but the number of segments.

I didn't mean to suggest that it would be simple. It would take
a bit of trial and error to get going. You would probably have
to find some specs for the gerber file format.

I'd probably do the routing on paper and then transfer it to
the gerber file. The important point is that you can use the
viewer to show what you have so you know if you got it right.

--
These are my opinions, not necessarily my employer's. I hate spam.

From -4195504901512969684
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 17 Jun 2009 08:22:27 -0500
Reply-To: "Leland C. Scott" <kc8ldo@arrl.net>

From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
<INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com> <1d7c600d-08b1-46dd-baeb-c2acc11634f2@g15g2000pra.googlegroups.com>
<V_idnbb_aubIh6rXnZ2dnUVZ_umdnZ2d@giganews.com> <4cb8be89-5209-4c67-be77-65015d644d63@w40g2000yqd.googlegroups.com>
<R8WdnahE4qDpuaXXnZ2dnUVZ_sydnZ2d@giganews.com>
<WMKdnZGBOo69s6XXnZ2dnUVZ_r5i4p2d@megapath.net>
<9ZmdneaPuo1w3aXXnZ2dnUVZ_rednZ2d@giganews.com>
<QpqdnU3sNZt7AqXXnZ2dnUVZ_jti4p2d@megapath.net>
Subject: Re: ExpressPCB to Gerber file converter?
Date: Wed, 17 Jun 2009 09:22:22 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <DYudnfWY3PuOc6XXnZ2dnUVZ_tidnZ2d@giganews.com>
Lines: 50
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-kNLndjn07o0c+68Z25Tyf/
Rcm68ocjOrjpnO2Ja1hK8a5fQecgfvmbd5q8HTTCZEdxpkDLA7psLGIuv!
JDBxvhsQlWxJfmUnsDhbzagnbVHmBSHLGeJNzGqmsEehH2UCO7ggB85Gczxn1TJJhJz2XCqRJQ==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 3450
Xref: g2news2.google.com rec.radio.amateur.homebrew:2857 sci.electronics.cad:2787

Hal;

I'll suggest that to my buddy and see if he has any luck. I didn't consider trying that method. The board he has is about 10 by 12 inches, double sided with around 40 through hole chips on it with several dozen discrete components sprinkled around them. That could get very interesting.

Thanks for the suggestion and this may be what he will have to do. The free Gerber viewer I found will come in handy for checking the results as you pointed out. I'm sure I can find the spec's for the Gerber file format on line some place so that shouldn't be a problem.

Thanks;

Leland C. Scott
KC8LDO

"The most reliable components are
the ones you leave out."

By Gordon Bell, father of the
minicomputer at DEC.

"Hal Murray" <hal-usenet@ip-64-139-1-69.sjc.megapath.net> wrote in message
news:QpqdnU3sNZt7AqXXnZ2dnUVZ_jti4p2d@megapath.net...
> In article <9ZmdneaPuo1w3aXXnZ2dnUVZ_rednZ2d@giganews.com>,
> "Leland C. Scott" <kc8ldo@arrl.net> writes:
>>Hal;
>>
>>May have to reroute a few traces that cross a significant length of the
>>board to fix some design errors. I haven't looked at the raw Gerber files
>>to
>>see how easy doing the editing by hand word be to do.
>
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>
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>
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> the gerber file. The important point is that you can use the
> viewer to show what you have so you know if you got it right.
>
> --
> These are my opinions, not necessarily my employer's. I hate spam.
>

```
From -8642942792474513378
X-Google-Thread: 241b302a50,12dda802caeed290,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h2g2000yqg.googlegroups.com!not-for-
mail
From: Jake <mechanicaljake@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: So I have all this old radio equipment...
Date: Wed, 17 Jun 2009 08:09:52 -0700 (PDT)
Organization: http://groups.google.com
Lines: 21
Message-ID: <d35bedeb-809c-4156-945c-e02e80aa2061@h2g2000yqg.googlegroups.com>
NNTP-Posting-Host: 72.44.97.150
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1245251392 23166 127.0.0.1 (17 Jun 2009 15:09:52 GMT)
X-Complaints-To: groups-abuse@google.com
```

```
NNTP-Posting-Date: Wed, 17 Jun 2009 15:09:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h2g2000yqg.googlegroups.com; posting-host=72.44.97.150;
     posting-account=c9nuYgoAAAAs7P-mp6RIkO2PKu7eWoRO
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2858
```

Hey all,

Many years ago (Late 80's) I was given a variety of radio equipment
from a gentleman I knew. He was going to new guinea as a missionary
and gave me a bunch of parts/projects/stuff.

I have identified one of the (transcievers?) as an ARC-5. Also there
is at least 2 more of these in parts, maybe more. Also a bunch of
variable capacitors (the air-core metal finned ones) and various tubes
and coils and other random stuff.

This stuff has been sitting in my attic for 20 years, slowly
collecting dust and corrosion. A long time ago, I was going to get my
general class license. I never took the test, and just don't have much
hobby time anymore.

Does anyone know if this equipment is worth identifying and posting
somewhere for sale/trade? And if so, where would I find people
interested in this stuff?

Thanks in advance :-D

```
From 8387730222755196349
X-Google-Thread: 241b302a50,12dda802caeed290
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
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Path: g2news2.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 17 Jun 2009 10:51:13 -0500
Date: Wed, 17 Jun 2009 15:51:13 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: So I have all this old radio equipment...
References: <d35bedeb-809c-4156-945c-e02e80aa2061@h2g2000yqg.googlegroups.com>
In-Reply-To: <d35bedeb-809c-4156-945c-e02e80aa2061@h2g2000yqg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <tYWdnRcrLrxsjaTXnZ2dnUVZ_gxi4p2d@bright.net>
Lines: 26
```

X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-nGgw6Kf3r0Jr/
KcXcz80iUIpjci0dfMoUlTIq1Q9bs0o1uCzH77bbJpe4Jg3WaOMBceGGcvrFvDyEr4!
kfPlAyDIMj2ap8iH6pqjKwqjdJst3bZpNVSZN1/8KkaXIx2l1gdSxFS7LHxWuUObM11z9ZqUbEZb!
zbrbiYPMEg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2220
Xref: g2news2.google.com rec.radio.amateur.homebrew:2859

Jake wrote:
> Hey all,
>
> Many years ago (Late 80's) I was given a variety of radio equipment
> from a gentleman I knew. He was going to new guinea as a missionary
> and gave me a bunch of parts/projects/stuff.
>
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>
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> hobby time anymore.
>
> Does anyone know if this equipment is worth identifying and posting
> somewhere for sale/trade? And if so, where would I find people
> interested in this stuff?
>
> Thanks in advance :-D

rec.radio.amateur.boatanchors newsgroup. The ARC-5 is a WWII era
aircraft radio as I recall.

From -6191475677739133056
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!news-in-01.newsfeed.easynews.com!news-in-02.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-01.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
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<INSYl.740928$yE1.253509@attbi_s21>

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<V_idnbb_aubIh6rXnZ2dnUVZ_umdnZ2d@giganews.com> <5fd970fa-feb9-41b1-b078-e9960f0de82e@k8g2000yqn.googlegroups.com>
Subject: Re: ExpressPCB to Gerber file converter?
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <169_l.215435$Tp1.101458@en-nntp-01.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Wed, 17 Jun 2009 09:46:45 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2860 sci.electronics.cad:2789

"Leon" <leon355@btinternet.com> wrote in message
news:5fd970fa-feb9-41b1-b078-e9960f0de82e@k8g2000yqn.googlegroups.com...
> The Pulsonix software I use has can import Gerber files and edit them,
> but it isn't free.

It doesn't have many features that a purpose-built "Gerber editor" does, although it certainly works in a pinch. (The biggest problem seems to be that Pulsonix tries to be smart and figure out what things "are," whereas sometimes you just want a "dumb" editor that thinks of everything as a drawn line or a flashed shape.)

Protel used to have very good Gerber import abilities... I wonder if it still does?

From -5462653685347466701
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-02.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
<INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com> <1d7c600d-08b1-46dd-baeb-c2acc11634f2@g15g2000pra.googlegroups.com>
<V_idnbb_aubIh6rXnZ2dnUVZ_umdnZ2d@giganews.com> <5fd970fa-feb9-41b1-b078-e9960f0de82e@k8g2000yqn.googlegroups.com>
<kL6dneya5b4836XXnZ2dnUVZ_vSdnZ2d@giganews.com>

Subject: Re: ExpressPCB to Gerber file converter?
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <R99_l.195229$6p1.50984@en-nntp-02.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Wed, 17 Jun 2009 09:50:53 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2861 sci.electronics.cad:2790

"Leland C. Scott" <kc8ldo@arrl.net> wrote in message
news:kL6dneya5b4836XXnZ2dnUVZ_vSdnZ2d@giganews.com...

> You have a rough idea as to the cost for the bare-bones PCB core? I didn't see any prices on the web sites from a quick look..

That almost always implies at least four digits. :-)

You pretty much have to call up your local Pulsonix distributor to get pricing -- it tends to vary significantly worldwide. As of a little more than a year ago, any Pulsonix suite that included PCB layout was >$2k in the U.S. A full-featured suite with a handful of the "spendy" options (network licensing, database connectivity, chip packaging toolkit, etc.) would tend to top $10k in the U.S.

From -2096154740923566879
X-Google-Thread: 241b302a50,12dda802caeed290
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <d35bedeb-809c-4156-945c-e02e80aa2061@h2g2000yqg.googlegroups.com> <tYWdnRcrLrxsjaTXnZ2dnUVZ_gxi4p2d@bright.net>
Subject: Re: So I have all this old radio equipment...
Lines: 41
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <%Z9_l.3003$u86.2960@nwrddc01.gnilink.net>
Date: Wed, 17 Jun 2009 17:46:35 GMT
NNTP-Posting-Host: 71.177.25.82
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1245260795 71.177.25.82 (Wed, 17 Jun 2009 13:46:35 EDT)
NNTP-Posting-Date: Wed, 17 Jun 2009 13:46:35 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2862

"Scott" <acepilotREMOVE@bloomer.net> wrote in message
news:tYWdnRcrLrxsjaTXnZ2dnUVZ_gxi4p2d@bright.net...
> Jake wrote:
> > Hey all,
> >
> > Many years ago (Late 80's) I was given a variety of radio equipment
> > from a gentleman I knew. He was going to new guinea as a missionary
> > and gave me a bunch of parts/projects/stuff.
> >
> > I have identified one of the (transcievers?) as an ARC-5. Also there
> > is at least 2 more of these in parts, maybe more. Also a bunch of
> > variable capacitors (the air-core metal finned ones) and various tubes
> > and coils and other random stuff.
> >
> > This stuff has been sitting in my attic for 20 years, slowly
> > collecting dust and corrosion. A long time ago, I was going to get my
> > general class license. I never took the test, and just don't have much
> > hobby time anymore.
> >
> > Does anyone know if this equipment is worth identifying and posting
> > somewhere for sale/trade? And if so, where would I find people
> > interested in this stuff?
> >
> > Thanks in advance :-D
>
> rec.radio.amateur.boatanchors newsgroup. The ARC-5 is a WWII era
> aircraft radio as I recall.
>

The usual practice of widows and estate liquidators is to donate items left over from auctions to a local club to sort out.   Most will be taken to swap meets where most items of interest will fall into the right hands. As an alternative, post group photos of items on a web site and post the links here and in boatanchors newsgroups and allow interested parties to ask about items via e-mail address set aside for that purpose.

Lots of stuff is only museum interesting, but some that you described, continues to be useful for antenna matching and other projects. Radio is still RF and laws of Physics are still valid and some parts would always be useful.if in good shape. Corrosion is only appealing on art objects and yard ornaments.

```
From -1547960160308078114
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!weretis.net!
feeder2.news.weretis.net!feeder.motzarella.org!news.motzarella.org!motzarella.org!
news.motzarella.org!not-for-mail
From: Baron <baron.nospam@linuxmaniac.nospam.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Subject: Re: ExpressPCB to Gerber file converter?
Followup-To: rec.radio.amateur.homebrew
Date: Wed, 17 Jun 2009 19:55:40 +0100
Organization: The Listener.
Lines: 31
Message-ID: <h1be7e$43v$1@news.eternal-september.org>
References:
<JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com><INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com> <h-
KdncQ1TbGa_qnXnZ2dnUVZ_ohi4p2d@web-ster.com> <u-6dnYjDg-
lZF6jXnZ2dnUVZ_r6dnZ2d@giganews.com> <9f6d3303-
beb7-4aba-8c82-9caaaa662c36@x5g2000yqk.googlegroups.com> <XY-
dnTvrKOrxtaXXnZ2dnUVZ_t2dnZ2d@giganews.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: news.eternal-september.org U2FsdGVkX1+6gtyQfsME7lRdgkxlim1VXS/
TrtBkaivBySmNwrQYFjYc4xBrWvsG6ie9x+quHOXYYh0nhZf80LMKDhOY1yx4k1xZ69UNwQ38wD14nWZ8E
ioZHE+M4AsMEAvV9syCP8U=
X-Complaints-To: abuse@motzarella.org
NNTP-Posting-Date: Wed, 17 Jun 2009 18:55:47 +0000 (UTC)
X-Auth-Sender: U2FsdGVkX1/WAKg1mbqavuFsolcQgEWyPuQzqAs5cWY=
X-Face:  &$<ta)VLyIA9.&wi,VZOo{U#>FF)wSPKf^<\9t-EdG8Y3.~TajYb[GaJd/g)I-E;xb6`"=?
utf-8?q?=5E=0A=090=27/uh=5B?=@fp3e@<or*7-G<&EaQ-h/^qOBQ`#-TwaL0Ty?
4a~ui[\7Nt2~ZA^))!v/=1@=?utf-8?q?
ul3+=0A=09DmVQSUZ=60Ly=24=3F=7C=25=26vpCqIYGwlqBrOH=3DwD+y0?=         =?utf-8?q?
pev=5C?=,4^7,uN]jO|q[iOC{='6`qbBHA.v30@=?utf-8?q?=0A=09?="         =?utf-8?q?-
=7E=2EH=3B=60c!v-=3Bznm=7E=7BV=27UYZ2=26Bvj-m=7Dq48y-vM-z+G=25j?=         =?utf-8?
q?=5CM3Zf=27=5E0=5Fu=5Cn=7C=3Ap=27GJl=5Co2Z4Mt=23=0A=09m?
=@7+Jl9H,S5WXfC{xP5n_FF@b{X:!z*OXjSiB!S<B!Ez;NBs"^W(b)<X[}NxD,A,
Cancel-Lock: sha1:2LBsjeM//LnvuMpZjR5mzyflDV4=
User-Agent: KNode/0.10.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:2863 sci.electronics.cad:2792

Leland C. Scott wrote:

>
> "JeffM" <jeffm_@email.com> wrote in message
>
news:9f6d3303-beb7-4aba-8c82-9caaaa662c36@x5g2000yqk.googlegroups.com...
>>When someone gets hot to trot for the Cadsoft product,
>>I like to remind him that he may find the same situation:
>>*His* work product tied up in **their** proprietary format:
>
> Boo! Hiss! Kick the dog. Well the dog isn't to blame , maybe not a
> good idea to kick it.
>
> Check this out.
>
> http://gerbv.sourceforge.net/

I've used gerbv quite usefully !  It does take a little getting used to.

> http://pcb.gpleda.org/news.html#20090202
>
> http://www.gpleda.org/index.html
>
> I haven't tried out most of these tools. It would be interesting to
> get somebody's comments who has used them for a project.
>
>

--
Best Regards:
                     Baron.


From 4369867065536444318
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe18.iad.POSTED!7564ea0f!not-for-mail
Reply-To: "Brad Velander" <bveland@SpamThis.com>
From: "Brad Velander" <bveland@SpamThis.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
<INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com> <1d7c600d-08b1-46dd-baeb-
c2acc11634f2@g15g2000pra.googlegroups.com>
<V_idnbb_aubIh6rXnZ2dnUVZ_umdnZ2d@giganews.com> <5fd970fa-feb9-41b1-b078-
e9960f0de82e@k8g2000yqn.googlegroups.com> <169_l.215435$Tp1.101458@en-
nntp-01.dc1.easynews.com>
Subject: Re: ExpressPCB to Gerber file converter?
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <Svl_l.46$QS.5@newsfe18.iad>
NNTP-Posting-Host: 24.67.85.93
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X-Complaints-To: internet.abuse@sjrb.ca
X-Trace: newsfe18.iad 1245308018 24.67.85.93 (Thu, 18 Jun 2009 06:53:38 UTC)
NNTP-Posting-Date: Thu, 18 Jun 2009 06:53:38 UTC
Date: Wed, 17 Jun 2009 23:53:38 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2864 sci.electronics.cad:2793

Joel,
    I would counter your comment below. True that Protel can import Gerber
but it is specifically a very limited Gerber import that works mainly only
with it's own exported Gerbers. Try importing Gerbers created in another
toool and you are fighting a difficult if not loosing battle. There are all
sorts of legitimate Gerber expressions that it will just gag on.

--
Sincerely,
Brad Velander.

"Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in message
news:169_l.215435$Tp1.101458@en-nntp-01.dc1.easynews.com...
> "Leon" <leon355@btinternet.com> wrote in message
> news:5fd970fa-feb9-41b1-b078-e9960f0de82e@k8g2000yqn.googlegroups.com...
>
> Protel used to have very good Gerber import abilities... I wonder if it
> still does?




From 6264068542163907018
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!l8g2000vbp.googlegroups.com!not-for-
mail
From: Leon <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Subject: Re: ExpressPCB to Gerber file converter?
Date: Thu, 18 Jun 2009 12:24:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 29
Message-ID: <f15e1982-656f-4bde-96a6-0ae381ecdb6c@l8g2000vbp.googlegroups.com>
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
     <INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com>
     <1d7c600d-08b1-46dd-baeb-c2acc11634f2@g15g2000pra.googlegroups.com>
     <V_idnbb_aubIh6rXnZ2dnUVZ_umdnZ2d@giganews.com> <5fd970fa-feb9-41b1-b078-
e9960f0de82e@k8g2000yqn.googlegroups.com>
     <kL6dneya5b4836XXnZ2dnUVZ_vSdnZ2d@giganews.com>
NNTP-Posting-Host: 81.159.176.69
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
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X-Trace: posting.google.com 1245353086 27630 127.0.0.1 (18 Jun 2009 19:24:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 18 Jun 2009 19:24:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l8g2000vbp.googlegroups.com; posting-host=81.159.176.69;
     posting-account=QWZLZQkAAADFmB_RJlmk3T-GvINRaZti
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.0.11)
     Gecko/2009060215 Firefox/3.0.11,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2865 sci.electronics.cad:2798

On 17 June, 02:10, "Leland C. Scott" <kc8...@arrl.net> wrote:
> "Leon" <leon...@btinternet.com> wrote in message
>
> news:5fd970fa-feb9-41b1-b078-e9960f0de82e@k8g2000yqn.googlegroups.com...
>
>
>
> > The Pulsonix software I use has can import Gerber files and edit them,
> > but it isn't free.
>
> =A0You have a rough idea as to the cost for the bare-bones PCB core? I di=
dn't
> see any prices on the web sites from a quick look..
>
> --
> Regards;
>
> Leland C. Scott
> KC8LDO
>
> "The most reliable components are
> =A0the ones you leave out."
>
> By Gordon Bell, father of the
> minicomputer at DEC.

About $3,000.

Leon



From -3343891317683708882
X-Google-Thread: 241b302a50,76a60234dfdb40eb,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news.astraweb.com!
border1.newsrouter.astraweb.com!not-for-mail
Date: Thu, 18 Jun 2009 15:01:58 -0600
From: Hank Zoeller <bogusaddress@dontbothernotvalid.com>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
```

Newsgroups: rec.radio.amateur.homebrew
Subject: Filter choke specs
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 14
Message-ID: <001be9d5$0$5786$c3e8da3@news.astraweb.com>
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: c840f764.news.astraweb.com
X-Trace: DXC=Sb8dd[h6^_QLZ1S<EBWgfVL?0kYOcDh@ZA@hD?
XUC;E]g;0acW3Q^nRL`_@n9kh1mTP`JMmceD?ZQ6fKTSe?Fa3V
Xref: g2news2.google.com rec.radio.amateur.homebrew:2866

Hello,

Can power supply filter chokes be used beyond their stated current
ratings? Are they typically rated for continuous duty? If so, if used
in ICAS service can I draw more current than rated?

For example, I have a choke rated for 5 Henries at 400 MA (25 Ohms).
I'd like to use it in a circuit drawing up to 650 MA peak. This would
be for a class C amp -- CW only.

Thanks for any input.

73,
-HZ

From -7698129050386233276
X-Google-Thread: 241b302a50,76a60234dfdb40eb
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 18 Jun 2009 17:03:22 -0500
From: "Dave M" <masondg4499@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <001be9d5$0$5786$c3e8da3@news.astraweb.com>
Subject: Re: Filter choke specs
Date: Thu, 18 Jun 2009 18:03:21 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <R_OdnTvr4oc3JKfXnZ2dnUVZ_gednZ2d@giganews.com>
Lines: 42
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X-Trace: sv3-
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NiFo5nzv04Of5PQUgOTr9uz91p5HezG1+d41MXe8HUSo3w0bK8+SEDSbDXmlN+jNL3PRRNIxak0=

X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2848
Xref: g2news2.google.com rec.radio.amateur.homebrew:2867

"Hank Zoeller" <bogusaddress@dontbothernotvalid.com> wrote in message news:001be9d5$0$5786$c3e8da3@news.astraweb.com...

> Hello,
>
> Can power supply filter chokes be used beyond their stated current
> ratings? Are they typically rated for continuous duty? If so, if used in
> ICAS service can I draw more current than rated?
>
> For example, I have a choke rated for 5 Henries at 400 MA (25 Ohms). I'd
> like to use it in a circuit drawing up to 650 MA peak. This would be for
> a class C amp -- CW only.
>
> Thanks for any input.
>
> 73,
> -HZ

You're proposing to run the choke at more than 150% of its current rating.
That will have at least two very adverse effects.
First, you could overheat the windings to the point of burning insulation on the windings, burning the wire open, causing a fire, etc.
Second, you're running the very possible risk of saturating the core, causing major loss of inductance. The effect this would have on your circuit depends on its actual component values and how well the rest of the circuit can forgive the loss of inductance.
My recommendation would be to get a choke of the appropriate ratings.

That said, you should download a copy of Duncan's power supply designer from http://www.duncanamps.com/psud2/index.html and input your component values, load it with a stepped constant current load and see how it performs. This program will show you the current and voltage waveforms and values, but it won't show the core saturation effects. You'll need more sophisticated software for that (Spice).

Cheers

--
HAM AND EGGS -- A day's work for a chicken, a lifetime commitment for a pig.

Dave M

```
From 2320242037092600455
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!news1.google.com!
news.glorb.com!news.astraweb.com!border5.newsrouter.astraweb.com!not-for-mail
Date: Thu, 18 Jun 2009 20:08:33 -0600
From: Hank Zoeller <bogusaddress@dontbothernotvalid.com>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Filter choke specs
References: <001be9d5$0$5786$c3e8da3@news.astraweb.com>
<R_OdnTvr4oc3JKfXnZ2dnUVZ_gednZ2d@giganews.com>
In-Reply-To: <R_OdnTvr4oc3JKfXnZ2dnUVZ_gednZ2d@giganews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 19
Message-ID: <0082313b$0$5925$c3e8da3@news.astraweb.com>
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 4969e33d.news.astraweb.com
X-Trace: DXC=<_0lPXj2>`a5ljRKX^a8BhL?0kYOcDh@jg<3\1M1o\
[b1A88AjH;DmmL`_@n9kh1mdP`JMmceD?Zaj<7Wc?4<`ed
Xref: g2news2.google.com rec.radio.amateur.homebrew:2868

Dave M wrote:
> You're proposing to run the choke at more than 150% of its current rating.
> That will have at least two very adverse effects.
..edited for brevity..

Thanks for the reality check.  It was wishful thinking on my part --
based on some hazy recollection of running transformers in ICAS service
beyond their CCS ratings.


> That said, you should download a copy of Duncan's power supply designer from
> http://www.duncanamps.com/psud2/index.html
..edited for brevity..

That's a great resource.  Thank you for that link!

--
73,
HZ


From -4641637919170293548
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!
newsfeed2.telusplanet.net!newsfeed.telus.net!news-in-02.newsfeed.easynews.com!
easynews!core-easynews-01!easynews.com!en-nntp-05.dc1.easynews.com.POSTED!not-for-
mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
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Subject: Re: ExpressPCB to Gerber file converter?
Lines: 7
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <CTT_l.41756$op1.33593@en-nntp-05.dc1.easynews.com>
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Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Fri, 19 Jun 2009 14:59:59 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2869 sci.electronics.cad:2806

Thanks for the information, Brad. When I was using Protel's Gerber import functionality, it was only with Gerber files Protel itself had generated, so I never saw the important limitations you're describing.

---Joel

From 7238712716697786923
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
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Reply-To: "Brad Velander" <bveland@SpamThis.com>
From: "Brad Velander" <bveland@SpamThis.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
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Message-ID: <8r0%l.35839$QS.32568@newsfe18.iad>
NNTP-Posting-Host: 24.67.85.93
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X-Trace: newsfe18.iad 1245483844 24.67.85.93 (Sat, 20 Jun 2009 07:44:04 UTC)
NNTP-Posting-Date: Sat, 20 Jun 2009 07:44:04 UTC
Date: Sat, 20 Jun 2009 00:44:04 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2870 sci.electronics.cad:2807

Joel,

Glad I could enlighten or warn.

Plenty of users only find it out after their expectations are raised. The first one that I stumbled across was that it wouldn't even import some Protel Generated files that had been re-exported from their own Camtastic 2000DE after a couple of very minor edits.

Some externally generated Gerbers may be formatted much closer than others to the precise format required.for Protel import. I have heard of a couple people having success with only edits to the initial Gerber configuration statements (approx. the first dozen lines). That wasn't the case in a couple of my attempted imports, the required edits grew exponentially as I tried to progress.

--
Sincerely,
Brad Velander.

"Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in message
news:CTT_l.41756$op1.33593@en-nntp-05.dc1.easynews.com...

> Thanks for the information, Brad. When I was using Protel's Gerber import
> functionality, it was only with Gerber files Protel itself had generated,
> so I never saw the important limitations you're describing.
>
> ---Joel
>

From -6534597325849905590
X-Google-Thread: 241b302a50,76a60234dfdb40eb
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X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
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From: Stray Dog <qcwa150@sdf.lonestar.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Filter choke specs
Date: Sat, 20 Jun 2009 12:29:01 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 127

Message-ID: <Pine.NEB.4.64.0906201200120.25130@sdf.lonestar.org>
References: <001be9d5$0$5786$c3e8da3@news.astraweb.com>
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Xref: g2news2.google.com rec.radio.amateur.homebrew:2871

My comments are below....

On Thu, 18 Jun 2009, Dave M wrote:

> Date: Thu, 18 Jun 2009 18:03:21 -0400
> From: Dave M <masondg4499@comcast.net>
> Newsgroups: rec.radio.amateur.homebrew
> Subject: Re: Filter choke specs
>
> "Hank Zoeller" <bogusaddress@dontbothernotvalid.com> wrote in message
> news:001be9d5$0$5786$c3e8da3@news.astraweb.com...
>> Hello,
>>
>> Can power supply filter chokes be used beyond their stated current
>> ratings? Are they typically rated for continuous duty? If so, if used in
>> ICAS service can I draw more current than rated?

Good questions.

See below.

>> For example, I have a choke rated for 5 Henries at 400 MA (25 Ohms). I'd
>> like to use it in a circuit drawing up to 650 MA peak. This would be for
>> a class C amp -- CW only.
>>
>> Thanks for any input.
>>
>> 73,
>> -HZ
>
>
> You're proposing to run the choke at more than 150% of its current rating.
> That will have at least two very adverse effects.
> First, you could overheat the windings to the point of burning insulation on
> the windings, burning the wire open, causing a fire, etc.

People need to think about the duty cycle of CW. The 400 ma rating of the
choke _should_ be for CCS and that _should_ mean 100% duty cycle. Figure
out yourself what the duty cycle of CW would be: a string of dots would be
50% duty cycle. A string of dashes would be 75% duty cycle. The other

question would be, for CW, what is his key up resting current going to be compared to 650 ma (at peak)?

You have to think how much a choke heats up under its rated CCS current.

Hes got a choke with 25 ohms, so put a DC voltage accross that to get a current of 650 ma and feel the choke with your fingers every 4-5 minutes. Or get a thermometer and touch the bulb to the case of the choke and watch it to see if the temperature comes up to a plateau (it should).

Quite frankly, I think its a _go_ project.

More below.

> Second, you're running the very possible risk of saturating the core,
> causing major loss of inductance.

That would depend entirely on whether the core had an anti-saturation air gap somewhere. As far as I know (and there was one curve in QST decades ago on this), all chokes have an inductance which has some relationship to current. When I was a kid I built a magnetic amplifier (and it worked) based on variable inductance in one winding controlled by variable current in another winding.

If this choke is going into a power supply and you are worried about whether such currents are going to hurt your voltage regulation, then you can hook up an oscilloscope (through an appropriate dropping voltage divider) and go ahead and key the current.

There are a lot of high power amplifiers that don't even use chokes in their power supplies, but put in extra capacitance.

Of course, if you are a purist-perfectionist, then go and plunk out the money for the bigger choke.

If it were me, I'd consider the criteria I mentioned above, do the DC current experiment (one at 400 ma and one at 650 ma) and see how hot the choke got. When chokes and transformers get a little overheated, they may smoke or give off fumes that you can smell, too. If you let the thing keep smoking, then after some time you will start to damage the insulation and wax impregnated paper layers.

A 25 ohm choke would need a little under 12 volts to get the 400 ma, and maybe somewhere around 16-19 volts to get up to around 2/3 of an amp. That will end up (without doing the actual arithmetic) being about ten watts of heat to dissipate. Don't forget that the actual duty cycle will be 50-75%, on CW, so your choke at 650 ma intermittent service is probably going to be dissipating heat as if it were close to the 400 ma CCS operating conditions.

I still think the project is a _go_.

```
   The effect this would have on your
> circuit depends on its actual component values and how well the rest of the
> circuit can forgive the loss of inductance.
> My recommendation would be to get a choke of the appropriate ratings.
>
> That said, you should download a copy of Duncan's power supply designer from
> http://www.duncanamps.com/psud2/index.html and input your component values,
> load it with a stepped constant current load and see how it performs.  This
> program will show you the current and voltage waveforms and values, but it
> won't show the core saturation effects.  You'll need more sophisticated
> software for that (Spice).
>
> Cheers
> --
> HAM AND EGGS -- A day's work for a chicken, a lifetime commitment for a pig.
>
> Dave M
>
>
>
```

```
From -8724985378192108415
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border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.posted.visi!news.posted.visi.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 20 Jun 2009 17:00:18 -0500
From: "Bob" <kavacon@noga.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: cb to 10m conversion
Date: Sat, 20 Jun 2009 17:00:17 -0500
X-Priority: 3
X-MSMail-Priority: Normal
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
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63xcqNmlVfi1C5ZdciqnWQhVUTBfZZ4L0LHKZpgJfDw8Zw+VWRMnycbUdbdaNjJgRiOrG9eXZoso!i7ud
X-Complaints-To: abuse@visi.com
X-DMCA-Complaints-To: abuse@visi.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
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X-Original-Bytes: 1464
Xref: g2news2.google.com rec.radio.amateur.homebrew:2872

Hi gang,
I'm looking for any information regarding converting pll type cbs to 10m.
Specifically I picked up a couple of Cobra HH33 handhelds and it looks like
a simple reference oscillator xtal change along with a new 2nd oscillator
using the orignal pll rock will get these things somewhere on 10.
Ideas? Web sites? Books?

Thanks!

Bob

From 2636614367238826044
X-Google-Thread: 241b302a50,1cfb4421bfcc8f55
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
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NNTP-Posting-Date: Sat, 20 Jun 2009 17:57:54 -0500
From: "Dave M" <masondg4499@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <MLGdnTCT9K1uxqDXnZ2dnUVZ_tidnZ2d@posted.visi>
Subject: Re: cb to 10m conversion
Date: Sat, 20 Jun 2009 18:57:54 -0400
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X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2913
Xref: g2news2.google.com rec.radio.amateur.homebrew:2873

"Bob" <kavacon@noga.com> wrote in message news:MLGdnTCT9K1uxqDXnZ2dnUVZ_tidnZ2d@posted.visi...

> Hi gang,
> I'm looking for any information regarding converting pll type cbs to 10m.
> Specifically I picked up a couple of Cobra HH33 handhelds and it looks like a simple reference oscillator xtal change along with a new 2nd oscillator using the orignal pll rock will get these things somewhere on 10.
> Ideas? Web sites? Books?
>
> Thanks!
>
> Bob
>

Years ago (probably in the 70s), there was a flood of CB chassis on the surplus market from Hy-Gain, a major manufacturer that was going out of business. There was a number of magazine articles in 73 Magazine that went into excruciating detail on the CB-10M conversion. I never did one, but as I remember, it was a matter of changing crystals and some minor retuning. Don't remember if there were any component changes necessary, but if there were, they would likely be in the tuned RF circuits in the receiver front-end and in the transmitter final stage.
Take a look here (http://www.cbcintl.com/pllbook.htm) and you should get a pretty good idea on how to do your radio. If your Cobra is a recent model, the PLL might be completely different than the old PLL02 chips, but the theory should still be the same. There's also a doc on CB to 6M conversion at http://6mt.com/index.php?option=com_docman&task=doc_download&gid=21&Itemid=53.
First thing I could recommend would be to see if you can find a schematic for your radio. That would allow you to do the math on the crystals and how they mix to make it work.

Cheers,
--
Dave M
masondg44 at comcast dot net

One good thing about Alzheimer's; you get to meet new people every day.

```
From -3796245298526500670
X-Google-Thread: 241b302a50,1cfb4421bfcc8f55
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
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news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe07.iad.POSTED!7564ea0f!not-for-mail
From: "Dr. Barry L. Ornitz" <BLOrnitz48@charter.net>
Newsgroups: rec.radio.amateur.homebrew
Followup-To: rec.radio.amateur.homebrew
References: <MLGdnTCT9K1uxqDXnZ2dnUVZ_tidnZ2d@posted.visi>
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Lines: 61
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Date: Sat, 20 Jun 2009 23:12:43 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2874

"Dave M" <masondg4499@comcast.net> wrote in message
news:TeOdnRHM_vzv9KDXnZ2dnUVZ_vKdnZ2d@giganews.com...

> "Bob" <kavacon@noga.com> wrote in message
> news:MLGdnTCT9K1uxqDXnZ2dnUVZ_tidnZ2d@posted.visi...
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>> 10m.  Specifically I picked up a couple of Cobra HH33 handhelds and it
>> looks like a simple reference oscillator xtal change along with a new
>> 2nd oscillator using the orignal pll rock will get
?? these things somewhere on 10.
>> Ideas?  Web sites?  Books?

Changing the reference oscillator will change the channel spacing so
be careful here if you want the 10 meter channels to be 10 kHz apart.

> Years ago (probably in the 70s), there was a flood of CB chassis on the
> surplus market from Hy-Gain, a major manufacturer that was going out of
> business.  There was a number of magazine articles in 73 Magazine that
> went into excruciating detail on the CB-10M conversion.  I never did
```

> one, but as I remember, it was a matter of changing crystals and some minor retuning. Don't remember if there were any component changes necessary, but if there were, they would likely be in the tuned RF circuits in the receiver front-end and in the transmitter final stage.

I remember these. They were pretty trivial to convert to ham use. Actually almost all of the CB radios of that time period used identical circuit boards - except for the Tandy/Radio Shack models. In radios with an automatic noise limiter or noise blanker, for example, they just stuffed in a few more parts on the same printed circuit board. I remember taking the covers off a $600 rack-mounted radio (Dak) and showing the disappointed owner that inside it was identical to a $39 radio!

One local club even built a 10 meter repeater. Since it is relatively trivial to add FM to a transmitter, the repeater was FM-IN and AM-OUT. Those Hy-Gain/Uniden/Cobra/Midland/etc. radios were used with a varactor diode added to the transmit chain. The repeater used separate sites for the receiver and the transmitter instead of a duplexer. It worked quite well.

> Take a look here (http://www.cbcintl.com/pllbook.htm) and you should get a pretty good idea on how to do your radio. If your Cobra is a recent model, the PLL might be completely different than the old PLL02 chips, but the theory should still be the same. There's also a doc on CB to 6M conversion at
> http://6mt.com/index.php?option=com_docman&task=doc_download&gid=21&Itemid=53.
> First thing I could recommend would be to see if you can find a schematic for your radio. That would allow you to do the math on the crystals and how they mix to make it work.

Dave gave some good advice here. I do not know if it is true of modern CB radios, but in the late 1970's, manufacturers started using bandpass crystal filters in the transmit chain instead of a set of 3 or 4 tuned circuits to clean up the mixing products. This filter had a secondary purpose too - it prevented the radio from tuning very far from the original CB channels.

73, Barry WA4VZQ BLOrnitz48@charter.net

From 8104445875002520514
X-Google-Thread: 241b302a50,76a60234dfdb40eb
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
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NNTP-Posting-Date: Sat, 20 Jun 2009 23:42:33 -0500
From: "Lynn" <coffelt2@comcast.net>

Newsgroups: rec.radio.amateur.homebrew
References: <001be9d5$0$5786$c3e8da3@news.astraweb.com>
In-Reply-To: <001be9d5$0$5786$c3e8da3@news.astraweb.com>
Subject: Re: Filter choke specs
Date: Sat, 20 Jun 2009 21:42:30 -0700
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X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
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Xref: g2news2.google.com rec.radio.amateur.homebrew:2875

"Hank Zoeller" <bogusaddress@dontbothernotvalid.com> wrote in message news:001be9d5$0$5786$c3e8da3@news.astraweb.com...
> Hello,
>
> Can power supply filter chokes be used beyond their stated current
> ratings? Are they typically rated for continuous duty? If so, if used in
> ICAS service can I draw more current than rated?
>
> For example, I have a choke rated for 5 Henries at 400 MA (25 Ohms). I'd
> like to use it in a circuit drawing up to 650 MA peak. This would be for
> a class C amp -- CW only.
>
> Thanks for any input.
>
> 73,

If the choke ratings are actually CCS (and not ICAS as many were/are), I would go for it. If it doesn't quite work out, and the smoke bothers your eyes, there is another easy solution. Since this is about homebrew, it is a relatively simple project to rewind a choke (except, horror of horrors, a potted choke). Use a little heavier wire. Since there probably won't be enough

room for as many turns, you'll lose a little inductance, but who will know
the
difference? A little hum on a CW signal is quite distinguished anyway.

Old Chief Lynn, W7LTQ

From -6031436961659886033
X-Google-Thread: 241b302a50,1d7968157adc95b4,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news1
From: Bill M <radioexray@geemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FS - my Hendricks Scout
Date: Sun, 21 Jun 2009 03:17:47 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 12
Message-ID: <h1kmqu01v8d@news1.newsguy.com>
NNTP-Posting-Host: p24d1bfbfff00000073b1290e905b03f4f4edcc2ec7af5129.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2876

Great little receiver. Nothing that needs any apology. I've just become
more focused on my HB Kitchin receiver and hate to see the Scout sitting
here without a daily walk.

No problems with it. I sucked out the 'kit building' factor so I'll go
less than the retail price. 35 USD sound ok? Plus shipping, call it $5
in the US.

Inquire to radioexray@gmail.com

-Bill, WX4A

From 1630537189683082426
X-Google-Thread: 241b302a50,76a60234dfdb40eb
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!2dc089b5!not-for-
mail

From: "John KD5YI" <groups2_dot_jocjo@xoxy.net>
Newsgroups: rec.radio.amateur.homebrew
References: <001be9d5$0$5786$c3e8da3@news.astraweb.com>
Subject: Re: Filter choke specs
Lines: 49
MIME-Version: 1.0
Content-Type: text/plain;
    format=flowed;
    charset="iso-8859-1";
    reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-Antivirus: avast! (VPS 090620-0, 06/20/2009), Outbound message
X-Antivirus-Status: Clean
Message-ID: <CHt%l.433$NF6.336@nwrddc02.gnilink.net>
Date: Sun, 21 Jun 2009 17:01:22 GMT
NNTP-Posting-Host: 96.226.109.81
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1245603682 96.226.109.81 (Sun, 21 Jun 2009 13:01:22 EDT)
NNTP-Posting-Date: Sun, 21 Jun 2009 13:01:22 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2877

"Hank Zoeller" <bogusaddress@dontbothernotvalid.com> wrote in message news:001be9d5$0$5786$c3e8da3@news.astraweb.com...

> Hello,
>
> Can power supply filter chokes be used beyond their stated current
> ratings? Are they typically rated for continuous duty? If so, if used in
> ICAS service can I draw more current than rated?
>
> For example, I have a choke rated for 5 Henries at 400 MA (25 Ohms). I'd
> like to use it in a circuit drawing up to 650 MA peak. This would be for
> a class C amp -- CW only.
>
> Thanks for any input.
>
> 73,
> -HZ

I think most chokes today are rated for continuous duty. However, check with the manufacturer to be sure.

With respect to heating the choke, you can run higher current if you keep the rms value down to the choke's rating. To do this, you should have a duty factor as follows:

400 mA = 650 mA x sqrt(D) where D is the duty factor you must not exceed.

This gives (.4/.65)^2 or a duty factor of about 38%. (Can CW be sent at this duty?)

Expanding a bit on Dave M's comments:

Inductance at the higher current might be more problematic. As the iron gets closer to saturation, inductance takes a nose dive. This will cause higher peak currents which invalidate the above calculations because the higher peak currents mean higher RMS. This higher RMS current might also be bad for your filter capacitors. The only way to know for sure is to measure the true RMS choke and capacitor currents at the desired load current. You could then adjust your duty factor to not exceed the choke's rating. Then check the filter capacitor's RMS rating to see if it is exceeded. High RMS capacitor currents cause heating which dries out the electrolyte thus reducing the capacitor's life. Also check your ripple voltage to see if it is tolerable. Do all this without overheating the choke.

Good luck with your project.

John - KD5YI

```
From 1796432318116085217
X-Google-Thread: 241b302a50,cd6d94016638cf05,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!g20g2000vba.googlegroups.com!not-for-
mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Other uses for Microwave oven transformers?
Date: Sun, 21 Jun 2009 16:21:03 -0700 (PDT)
Organization: http://groups.google.com
Lines: 59
Message-ID: <a3476bb2-7b69-44a9-8b92-63eb7ebf4f94@g20g2000vba.googlegroups.com>
NNTP-Posting-Host: 142.162.128.246
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 21 Jun 2009 23:21:03 +0000 (UTC)
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     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
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     GTB6),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2878
```

Trying to clear out some 'junk' but have always tended to keep scrapped parts from old (UNREPAIRABLE/NOT-WORTH-FIXING) microwaves!

e.g. the transformers, fans, fuse holders, overheat switches. And even occasionally have used some of them for repairs to other microwaves!

I applied 115.7 volts AC to what had been the HV winding of one of these scrapped transf. recently and got about 6 volts on what had been the original primary. That established the ratio between the two windings as approx 20:1.

Also a small voltage (about 0.185 volts) across what had been the magnetron (Approx. 3 volt?) heater winding. Which gives ratio of about 1:33 to the original primary winding; also a ratio of about 1:700 from the original HV winding.

So the idea of using the transformer backwards comes to mind????

Depending on the unit they are typically rated as follows?

Input winding 115 volts at whatever total wattage of the magnetron circuit is. Assume say 1000 watts requiring about 8.7 amps primary current! Usually intermittent use.

The original HV secondary operates at around 2200 volts, so 1000 watts (ignore the magnetron heater current for a moment) would average about 400 to 500 milliamps? And pretty peaky because of the half wave high voltage doubling circuit???

More moderately; at 115 volts and say 400 m/a into the old HV winding the transformer might be able to supply around 6 volts at around 5 to 7 amps from what used to be the 115 volt primary?
Or at 115v/250 m/a maybe 3 to 5 amps? For 6.3v heaters?

Alternatively could such an ex-microwave power transformer be used in the plate circuit (non-push/pull) of an audio amp using say a 6v6 or 6L6 (perhaps triode connected?) with a DC plate current of 45 to 75 milliamps?

Thus in such an arrangement the 20:1 ratio to the original primary could provide something of a match for an 8 ohm speaker? (20)^2 x 8 = 3200

Problems; the laminations of such transformers do not seem to have air spaces as in some audio transformers carrying DC? The bottom (neutral) end of HV winding is sometimes at cabinet 'ground'. Hence a problem; unless the transformer is isolated and even then the transformer frame could be 'hot' whenever the unit is plugged in if that winding now used as the primary! Therefore unsafe.

Have also heard of cutting off the old HV winding etc. and using the remainder of transformer to make battery charger; down rating a typical transformer to say 500 watts (continuous) for battery charging

that's sort of around 30 to 40 amps at 12+ volts. Not sure what the
turns per volt would be but should be possible to poke a few turns
around the partially stripped core until one gets around 14 to 15
volts RMS.

This is all supposition at this stage! Any comments criticism????

From -8195207113836890O5
X-Google-Thread: 241b302a50,cd6d94016638cf05
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
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news.astraweb.com!border3.a.newsrouter.astraweb.com!not-for-mail
Message-ID: <QyRAELAbz2PKFwri@pentode.demon.co.uk>
Date: Mon, 22 Jun 2009 12:36:59 +0100
From: JC Morrice <John@pentode.demon.co.uk>
Reply-To: JC Morrice <john@pentode.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Other uses for Microwave oven transformers?
References: <a3476bb2-7b69-44a9-8b92-63eb7ebf4f94@g20g2000vba.googlegroups.com>
Organization: None
MIME-Version: 1.0
X-Newsreader: Turnpike Integrated Version 5.02 U <4btWri1UtseLgdvfeS6+dP5L8U>
Lines: 46
NNTP-Posting-Host: 92279f44.news.astraweb.com
X-Trace: DXC==UHe?a;Rm9dTSR1JO8jBlmL?
0kYOcDh@jS:OFC=6U_Xc<7H9dV`SKZo[g2M07Hfh_gfZ?;4EPC^<l=cP?6N_3@Gg
Xref: g2news2.google.com rec.radio.amateur.homebrew:2879

In article <a3476bb2-7b69-44a9-8b92-63eb7ebf4f94@g20g2000vba.googlegroup
s.com>, terry <tsanford@nf.sympatico.ca> writes

>Trying to clear out some 'junk' but have always tended to keep
>scrapped parts from old (UNREPAIRABLE/NOT-WORTH-FIXING) microwaves!
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>the original HV winding.
>
>So the idea of using the transformer backwards comes to mind????
snip.......

>Depending on the unit they are typically rated as follows?
>This is all supposition at this stage! Any comments criticism????

Seems there are quite a few uses for them!

Other uses:

good:
http://www.rhunt.f9.co.uk/Electronics/Spot_Welder/Spot_Welder_Page1.htm

Neat, but not so good - has he never heard of screening mains supplies?:
http://www.youtube.com/watch?v=Wp7JF2sANsw

Sheesh - doing this over large metal sheets with live mains involved an apparently zero mains insulation / isolation box / separation. Would *LOVE* to see his kilowatt linear; but perhaps not:
http://www.instructables.com/id/Build-a-Microwave-Transformer-Homemade-Welder/

John
--
JC Morrice
john@pentode.demon.co.uk

From -3160005343407622256
X-Google-Thread: 241b302a50,cd6d94016638cf05
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
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Path: g2news2.google.com!news1.google.com!news.glorb.com!news.cse.ohio-state.edu!pitt.edu!egsner!news.cirr.com!sdf.lonestar.org!qcwa150
From: Stray Dog <qcwa150@sdf.lonestar.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Other uses for Microwave oven transformers?
Date: Mon, 22 Jun 2009 14:40:26 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 222
Message-ID: <Pine.NEB.4.64.0906221437010.10155@sdf.lonestar.org>
References: <a3476bb2-7b69-44a9-8b92-63eb7ebf4f94@g20g2000vba.googlegroups.com>
NNTP-Posting-Host: sdf.lonestar.org
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: chessie.cirr.com 1245681630 21277 192.94.73.1 (22 Jun 2009 14:40:30 GMT)
X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Mon, 22 Jun 2009 14:40:30 +0000 (UTC)
In-Reply-To: <a3476bb2-7b69-44a9-8b92-63eb7ebf4f94@g20g2000vba.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2880

Your concepts are good, and if you do google searches on "microwave oven transformers" you will get websites that talk about their experiences.

I did buy a couple of used microwave ovens at local thrift stores for $5 each and played with the big transformers inside.

I was not satisfied with the result. One of the things some of the websites talk about is that you have to remove the "magnetic choke" that is part of the core. This needs a good hammer and a "punch" and was much harder to do for one transformer than another. And, after taking it out, it still did not perform.

The problem I found in both of my transformers is that at low voltages and a reasonable load, it was fine, but from about 50 volts and on up to line voltage into the primary, the primary current went up much faster than it should have considering the load that I put on the transformer secondary. I do not know what kind of load magnetrons put on power supply transformers but i suspect it is not like a continuous load. I tried to do google searches on magnetron current-voltage relationships but could not find anything. Certainly those "magnetic chokes" must be doing something.

In the end, I wound up buying my plate transformers at hamfests and also one, new, made by Hammond in Canada. Peter Dahl is out of business, and Ameritron (I think) will sell plate transformers and some are reasonably priced for the power and voltage. Fair Radio Sales (Lima, Ohio) and Radio-Daze (NY) are two that sell Hammond transformers, including large plate transformers (many types, specs all over the map, too).

//

On Sun, 21 Jun 2009, terry wrote:

> Date: Sun, 21 Jun 2009 16:21:03 -0700 (PDT)
> From: terry <tsanford@nf.sympatico.ca>
> Newsgroups: rec.radio.amateur.homebrew
> Subject: Other uses for Microwave oven transformers?
>
> Trying to clear out some 'junk' but have always tended to keep
> scrapped parts from old (UNREPAIRABLE/NOT-WORTH-FIXING) microwaves!
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>
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>
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```
From 7172986169167442616
X-Google-Thread: 241b302a50,cd6d94016638cf05
X-Google-Attributes: gid241b302a50,public,usenet
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Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
news.litech.org!not-for-mail
From: mikea <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Other uses for Microwave oven transformers?
Date: Mon, 22 Jun 2009 10:55:05 -0500
Organization: Litech Systems Design
Lines: 74
Sender: mikea@mikea.ath.cx
Message-ID: <p3m4h6-vub.ln1@mikea.ath.cx>
References: <a3476bb2-7b69-44a9-8b92-63eb7ebf4f94@g20g2000vba.googlegroups.com>
<Pine.NEB.4.64.0906221437010.10155@sdf.lonestar.org>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1245686093 22883 70.164.65.62 (22 Jun 2009 15:54:53 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Mon, 22 Jun 2009 15:54:53 +0000 (UTC)
X-Approved: YouBetcherArse@example.com
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (FreeBSD/7.1-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:2881
```

Stray Dog <qcwa150@sdf.lonestar.org> wrote in
<Pine.NEB.4.64.0906221437010.10155@sdf.lonestar.org>:

> In the end, I wound up buying my plate transformers at hamfests and also
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> priced for the power and voltage. Fair Radio Sales (Lima, Ohio) and
> Radio-Daze (NY) are two that sell Hammond transformers, including large
> plate transformers (many types, specs all over the map, too).

Well, yes, Peter is out of the business, but the transformers and other
items are still being built to his specs:

<http://forums.qrz.com/showthread.php?t=153611?

<blockquote>
Peter Dahl Company has NOT been sold. It is NOT moving across the border
to Mexico. Gary no longer works for the them. The Peter Dahl Company has

stopped production, is closing their doors, and will become part of Amateur Radio History!

But the NAME lives on!

Jeff Weinberg, W8CQ of Harbach Electronics, has purchased the rights to the name, the original transformer and choke specifications and designs, and the design equipment.

The transformers will be built by MagCap Engineering using the original PWD specs, and sold through Harbach Electronics under the Peter Dahl name. The transformer and chokes will be FOB Canton, MA and shipped directly to the customer from MagCap.

This is great news for the Amateur Radio Community and a great way to memorialize the Peter Dahl Company who's innovations and designs have brought so much to our hobby.

To nullify any further rumors or innuendos about the status or future of the Peter W Dahl Company, let me share the following e-mail with you (edited for content)...

Quote:
Re: Harbach Electronics and Peter Dahl
From: "Jeff Weinberg W8CQ"
Date: Wed, February 20, 2008 2:30 pm
To: "Dino Darling"

Hi Dino,
Yes, the deal is finally completed. I have purchased all of the transformer
designs and design equipment from Peter Dahl. I am moving the equipment here to Ohio. Once all of the computer design work has been updated and cataloged, I will be selling Peter Dahl transformers and chokes.

I should be up and running in a couple months.

(snip)

MagCap will be building the transformers according to the original Peter Dahl designs and specs and will be sold by Harbach Electronics under the Peter W. Dahl name.

Regards,
Jeff Weinberg W8CQ
Harbach Electronics

http://www.harbachelectronics.com
I've heard great things about Jeff and his company from people I know and respect. To me this is a great day in Amateur Radio and I look forward to the future with Peter W Dahl firmly rooted in our hobby!
</blockquote>

```
--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin


From -4878101053840461418
X-Google-Thread: 241b302a50,cd6d94016638cf05
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!w40g2000yqd.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Other uses for Microwave oven transformers?
Date: Mon, 22 Jun 2009 09:43:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 68
Message-ID: <7d4d5cef-94b0-43c5-a85c-8aab712fce63@w40g2000yqd.googlegroups.com>
References: <a3476bb2-7b69-44a9-8b92-63eb7ebf4f94@g20g2000vba.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 22 Jun 2009 16:43:28 +0000 (UTC)
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
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     3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2882

On Jun 21, 7:21=A0pm, terry <tsanf...@nf.sympatico.ca> wrote:
> Trying to clear out some 'junk' but have always tended to keep
> scrapped parts from old (UNREPAIRABLE/NOT-WORTH-FIXING) microwaves!
>
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>
> Also a small voltage (about 0.185 volts) across what had been the
> magnetron (Approx. 3 volt?) heater winding. Which gives ratio of about
> 1:33 to the original primary winding; also a ratio of about 1:700 from
> the original HV winding.
```

>
> So the idea of using the transformer backwards comes to mind????
>
> Depending on the unit they are typically rated as follows?
>
> Input winding 115 volts at whatever total wattage of the magnetron circuit is. Assume say 1000 watts requiring about 8.7 amps primary current! Usually intermittent use.
>
> The original HV secondary operates at around 2200 volts, so 1000 watts (ignore the magnetron heater current for a moment) would average about 400 to 500 milliamps? And pretty peaky because of the half wave high voltage doubling circuit???
>
> More moderately; at 115 volts and say 400 m/a into the old HV winding the transformer might be able to supply around 6 volts at around 5 to 7 amps from what used to be the 115 volt primary?
> Or at 115v/250 m/a maybe 3 to 5 amps? For 6.3v heaters?
>
> Alternatively could such an ex-microwave power transformer be used in the plate circuit (non-push/pull) of an audio amp using say a 6v6 or 6L6 (perhaps triode connected?) with a DC plate current of 45 to 75 milliamps?
>
> Thus in such an arrangement the 20:1 ratio to the original primary could provide something of a match for an 8 ohm speaker? (20)^2 x 8 =3D
> 3200
>
> Problems; the laminations of such transformers do not seem to have air spaces as in some audio transformers carrying DC? The bottom (neutral) end of HV winding is sometimes at cabinet 'ground'. Hence a problem; unless the transformer is isolated and even then the transformer frame could be 'hot' whenever the unit is plugged in if that winding now used as the primary! Therefore unsafe.
>
> Have also heard of cutting off the old HV winding etc. and using the remainder of transformer to make battery charger; down rating a typical transformer to say 500 watts (continuous) for battery charging that's sort of around 30 to 40 amps at 12+ volts. Not sure what =A0the turns per volt would be but should be possible to poke a few turns around the partially stripped core until one gets around 14 to 15 volts RMS.
>
> This is all supposition at this stage! Any comments criticism????

They are a great source of a core and primary for DIY transformers. Thes transformer were designed as a constant current source and have magnetic shunts that must be removed for most power supply applications

Jimmie

```
From -4724447801985676335
X-Google-Thread: 241b302a50,cd6d94016638cf05
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2.glorb.com!
news.cse.ohio-state.edu!pitt.edu!egsner!news.cirr.com!sdf.lonestar.org!qcwa150
From: Stray Dog <qcwa150@sdf.lonestar.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Other uses for Microwave oven transformers?
Date: Mon, 22 Jun 2009 17:47:32 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 220
Message-ID: <Pine.NEB.4.64.0906221744310.26472@sdf.lonestar.org>
References: <a3476bb2-7b69-44a9-8b92-63eb7ebf4f94@g20g2000vba.googlegroups.com>
 <Pine.NEB.4.64.0906221437010.10155@sdf.lonestar.org> <p3m4h6-
vub.ln1@mikea.ath.cx>
NNTP-Posting-Host: sdf.lonestar.org
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: chessie.cirr.com 1245692855 22712 192.94.73.1 (22 Jun 2009 17:47:35 GMT)
X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Mon, 22 Jun 2009 17:47:35 +0000 (UTC)
In-Reply-To: <p3m4h6-vub.ln1@mikea.ath.cx>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2883


On Mon, 22 Jun 2009, mikea wrote:

> Date: Mon, 22 Jun 2009 10:55:05 -0500
> From: mikea <mikea@mikea.ath.cx>
> Newsgroups: rec.radio.amateur.homebrew
> Subject: Re: Other uses for Microwave oven transformers?
>
> Stray Dog <qcwa150@sdf.lonestar.org> wrote in
<Pine.NEB.4.64.0906221437010.10155@sdf.lonestar.org>:
>
>> In the end, I wound up buying my plate transformers at hamfests and also
>> one, new, made by Hammond in Canada. Peter Dahl is out of business, and
>> Ameritron (I think) will sell plate transformers and some are reasonably
>> priced for the power and voltage. Fair Radio Sales (Lima, Ohio) and
>> Radio-Daze (NY) are two that sell Hammond transformers, including large
>> plate transformers (many types, specs all over the map, too).
>
> Well, yes, Peter is out of the business, but the transformers and other
> items are still being built to his specs:
>
> <http://forums.qrz.com/showthread.php?t=153611?
>
> <blockquote>
> Peter Dahl Company has NOT been sold. It is NOT moving across the border
> to Mexico. Gary no longer works for the them. The Peter Dahl Company has
```

> stopped production, is closing their doors, and will become part of
> Amateur Radio History!
>
> But the NAME lives on!
>
> Jeff Weinberg, W8CQ of Harbach Electronics, has purchased the rights to
> the name, the original transformer and choke specifications and designs,
> and the design equipment.
>
> The transformers will be built by MagCap Engineering using the original
> PWD specs, and sold through Harbach Electronics under the Peter Dahl
> name. The transformer and chokes will be FOB Canton, MA and shipped
> directly to the customer from MagCap.
>
> This is great news for the Amateur Radio Community and a great way to
> memorialize the Peter Dahl Company who's innovations and designs have
> brought so much to our hobby.
>
> To nullify any further rumors or innuendos about the status or future of
> the Peter W Dahl Company, let me share the following e-mail with you
> (edited for content)...
>
> Quote:
> Re: Harbach Electronics and Peter Dahl
> From: "Jeff Weinberg W8CQ"
> Date: Wed, February 20, 2008 2:30 pm
> To: "Dino Darling"
>
> Hi Dino,
> Yes, the deal is finally completed. I have purchased all of the
> transformer
> designs and design equipment from Peter Dahl. I am moving the equipment
> here to Ohio. Once all of the computer design work has been updated and
> cataloged, I will be selling Peter Dahl transformers and chokes.
>
> I should be up and running in a couple months.
>
> (snip)
>
> MagCap will be building the transformers according to the original Peter
> Dahl designs and specs and will be sold by Harbach Electronics under the
> Peter W. Dahl name.
>
> Regards,
> Jeff Weinberg W8CQ
> Harbach Electronics
>
> http://www.harbachelectronics.com
> I've heard great things about Jeff and his company from people I know
> and respect. To me this is a great day in Amateur Radio and I look
> forward to the future with Peter W Dahl firmly rooted in our hobby!
> </blockquote>
>

> --
> Mike Andrews, W5EGO
> mikea@mikea.ath.cx
> Tired old sysadmin
>

Thanks for the info. It goes beyond what came out in QST at the time and that was that production was going to end, period. There was no hint at all in the QST anouncement that there was even any possibility for continuation.

```
From 8443252309385529383
X-Google-Thread: 241b302a50,7c322c4d10879683,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews3.bellsouth.net.POSTED!0ed2130f!not-for-mail
From: "Mike Lucas" <w5chr@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: IC's to finish some projects.
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
```

X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <fGS%l.14151$he4.7739@bignews3.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcboccnceicehdoljdkmdgbaofdcdnckmbmini
gimaeolggpchlfmeegfjfccljiklonmmobmnhejeihnjjgimkljgnnkhhgkcbedllpnjjlobddhmhk
NNTP-Posting-Date: Mon, 22 Jun 2009 17:26:35 EDT
Organization: BellSouth Internet Group
Date: Mon, 22 Jun 2009 16:32:30 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:2884

Before I come down with CRS syndrome, I'd like to complete some
projects started in the early 70's. (!!!!!) Looking for National LM300
series IC's,
ie LM371, LM372, LM373, LM375. If you have any of these critters in can or
dip package, and they need a new home, email me with details please.
Cheap is great, free is even better.

Mike W5CHR
Memphis, Tenn

From -3074824513804795381
X-Google-Thread: 241b302a50,7c322c4d10879683
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 22 Jun 2009 17:53:17 -0500
From: "Dave M" <masondg4499@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <fGS%l.14151$he4.7739@bignews3.bellsouth.net>
Subject: Re: IC's to finish some projects.
Date: Mon, 22 Jun 2009 18:53:17 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <YLqdnbkSzb7Alt3XnZ2dnUVZ_tednZ2d@giganews.com>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-zPFQOR9itKp9b+O497o67Ja4HNkO1fcHoUvmZAAx13nIHyQKtzmHJapVnvvkX+AGIlw/
uj3rk5e6Fd4!
HnqIj5zNBq8LiZAhF7gSdwTAJ8F81ZGAbAV60J7IhpDNz54Tz0kuL0trXxlrFIVMjDF6JtFsbRh5
X-Complaints-To: abuse@giganews.com

X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2036
Xref: g2news2.google.com rec.radio.amateur.homebrew:2885

"Mike Lucas" <w5chr@bellsouth.net> wrote in message
news:fGS%l.14151$he4.7739@bignews3.bellsouth.net...
>   Before I come down with CRS syndrome, I'd like to complete some
> projects started in the early 70's. (!!!!!) Looking for National LM300
> series IC's,
> ie LM371, LM372, LM373, LM375. If you have any of these critters in can or
> dip package, and they need a new home, email me with details please.
> Cheap is great, free is even better.
>
> Mike W5CHR
> Memphis, Tenn
>

The only part that I could find anywhere was the LM373 at
http://www.unicornelectronics.com/IC/LINEAR.html. They have several other
LM3xx ICs on the list, but none of the parts you're looking for.
Your projects might be DIW if no one has them in their junquebox. What are
your projects? Might be a workaround for some of the unobtanium parts.

Cheeers

Dave M

From 4957234301361810490
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!nx01.iad01.newshosting.com!newshosting.com!198.186.194.250.MISMATCH!news-xxxfer.readnews.com!transit4.readnews.com!news-out.readnews.com!postnews3.readnews.com!nr5-q1.newsreader.com.POSTED!not-for-mail
Subject: Re: "Panel" style UHF DTV antenna?
From: cjdaytonjrnospam@cox.net
Organization: NewsReader.Com Subscriber
Message-ID: <20090602175224.422$Gx@newsreader.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
<elmop-47688C.21325830052009@mara100-84.onlink.net>
<4a257ae2$0$5068$9a6e19ea@unlimited.newshosting.com>
<elmop-1267E9.17380302062009@mara100-84.onlink.net>

```
X-NRC-Trace: NewsReader.Com EjJB8C5=Fl7A7aXDpc-si6+49OgoISO8EmHfreY2o=btbKhTFX
Date: 02 Jun 2009 21:53:41 GMT
Lines: 23
NNTP-Posting-Host: 34934dd1.nr5-q1.newsreader.com
X-Trace: DXC=m0]]becMnQBhcCb^6FjGAKbgZaH`e<A[IZ?:i9<JJBSN0Gh7Ehnl?
hKiJ;iV2YAoGE`EjQ?h??bmCj=7n;9f]\JN
X-Complaints-To: abuse@newsreader.com
Xref: g2news2.google.com rec.radio.amateur.antenna:12412
rec.radio.amateur.homebrew:2786 alt.tv.tech.hdtv:18281

"Elmo P. Shagnasty" <elmop@nastydesigns.com> wrote:
> In article <4a257ae2$0$5068$9a6e19ea@unlimited.newshosting.com>,
>  Radioguy <radioguy@tampabay.rr.com> wrote:
>
> > > I don't believe the local code has any say in the matter.
> > >
> > > But if you want to give up your rights...
> >
> > This is true to a point.  Local codes no problem, BUT in HOA territory
> > these rules do not necessarily apply. In most cases the HOAs have
> > modified their rules.
>
> The FCC is the entity here, not local communities.
>
> And neither HOA nor local communities can override FCC in this matter.

You SHOULD know better, Elmo. There are some restrictions an HOA can
place on a homeowner, but they are few. Here is a link to the FCC site:
http://www.fcc.gov/mb/facts/otard.html

--
-------------------- http://NewsReader.Com/ --------------------
Usenet Newsgroup Service                        $9.95/Month 30GB


From 5562869843375275873
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!
newsfeed.news.ucla.edu!news.ucr.edu!nntp-server.caltech.edu!news.jpl.nasa.gov!not-
for-mail
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Date: Tue, 02 Jun 2009 15:23:55 -0700
Organization: JPL Information Services, InterNetNews
Lines: 20
Message-ID: <h048pp$6hu$1@news.jpl.nasa.gov>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
<elmop-47688C.21325830052009@mara100-84.onlink.net>
<4a257ae2$0$5068$9a6e19ea@unlimited.newshosting.com>
```

```
NNTP-Posting-Host: seraphic.jpl.nasa.gov
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.jpl.nasa.gov 1243981433 6718 137.79.6.96 (2 Jun 2009 22:23:53 GMT)
X-Complaints-To: newsmaster@jpl.nasa.gov
NNTP-Posting-Date: Tue, 2 Jun 2009 22:23:53 +0000 (UTC)
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
In-Reply-To: <4a257ae2$0$5068$9a6e19ea@unlimited.newshosting.com>
Xref: g2news2.google.com rec.radio.amateur.antenna:12416
rec.radio.amateur.homebrew:2787 alt.tv.tech.hdtv:18285

Radioguy wrote:
> Elmo P. Shagnasty wrote:
>> In article <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>,
>>  Usual Suspect <reply@thegroup.net> wrote:
>>
>>> I must say at the outset that I am hesitant to buy an antenna based
>>> on its form-factor, but I'm forced by the local code to not display
>>> bare-element type antennae on the mast.
>>
>> I don't believe the local code has any say in the matter.
>>
>> But if you want to give up your rights...
>
> This is true to a point.  Local codes no problem, BUT in HOA territory
> these rules do not necessarily apply. In most cases the HOAs have
> modified their rules. The small direct satellite lobby started the
> trend.  Allowing these dishes they really had to include other TV antennas.
  the FCC premption (aka OTARD rules) is the key thing here.. The HOA
can't really do anything if it fits in the FCC guidelines.. dishes <1
meter, OTA TV any size.


From -5343952262374059640
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!a36g2000yqc.googlegroups.com!not-for-
mail
From: stratus46@yahoo.com
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Date: Tue, 2 Jun 2009 20:07:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <8b61e1ee-4e78-4e81-a1e5-e73a18285f7e@a36g2000yqc.googlegroups.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
     <elmop-47688C.21325830052009@mara100-84.onlink.net>
<4a257ae2$0$5068$9a6e19ea@unlimited.newshosting.com>
     <h048pp$6hu$1@news.jpl.nasa.gov>
NNTP-Posting-Host: 68.225.243.210
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1243998475 9545 127.0.0.1 (3 Jun 2009 03:07:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 3 Jun 2009 03:07:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a36g2000yqc.googlegroups.com; posting-host=68.225.243.210;
     posting-account=JX7V1wkAAAAeax67P9giUWdoKufQ8keT
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.63 (Windows NT 5.1; U; en) Presto/
2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:12423
rec.radio.amateur.homebrew:2788 alt.tv.tech.hdtv:18288

On Jun 2, 3:23=A0pm, Jim Lux <james.p....@jpl.nasa.gov> wrote:
 > trend. =A0Allowing these dishes they really had to include other TV
antennas.
 >
 > =A0 the FCC premption (aka OTARD rules) is the key thing here.. The
HOA
 > can't really do anything if it fits in the FCC guidelines.. dishes
<1
 > meter, OTA TV any size.

Nice thing about the Winegard SquareShooter is it resembles a dish
though my neighbors might think I don't have a clue how to aim it.
It's opposite where all the little dishes are aimed. They would have
laughed if they had seen the spectrum analyzer on the driveway next to
the car. I was on the roof with binoculars to see the screen.

G=B2


From -7292053105964845184
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!not-for-mail
Date: Tue, 02 Jun 2009 23:27:49 -0400
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
<QiqUl.64902$Rf7.19106@newsfe21.iad>
In-Reply-To: <QiqUl.64902$Rf7.19106@newsfe21.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
```

```
Lines: 29
Message-ID: <4a25edab$0$5074$9a6e19ea@unlimited.newshosting.com>
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
NNTP-Posting-Host: 70.121.205.178
X-Complaints-To: abuse@newshosting.com
Xref: g2news2.google.com rec.radio.amateur.antenna:12424
rec.radio.amateur.homebrew:2789 alt.tv.tech.hdtv:18289

Sal M. Onella wrote:
> "Usual Suspect" <reply@thegroup.net> wrote in message
> news:0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net...
>
> < snip >
>
>> I do like the panel style for the reason that I can arrange 3 around a
> common
>> mast, aimed at remote cities, and join the outputs for increased coverage.
>
> You may encounter some undesired affects from joining antennas.  If it
> works, fine, but if it doesn't, consider switching among the three at the TV
> set(s).
>
> The problem is that the prime signal will be "contaminated" by signal pickup
> from the other antenna(s).  The degree of contamination may or not affect
> reception.
>
> Good luck.
>
>
  It will suffer phase distortion. In the good old days we called that
"ghosting", now it will be signal drop outs!

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Use only Genuine Interocitor Parts" Tom Servo  ;-P


From -7929457760237506617
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!not-for-mail
Date: Tue, 02 Jun 2009 23:32:31 -0400
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
```

```
Subject: Re: "Panel" style UHF DTV antenna?
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
<elmop-47688C.21325830052009@mara100-84.onlink.net>
In-Reply-To: <elmop-47688C.21325830052009@mara100-84.onlink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 22
Message-ID: <4a25eec4$0$5074$9a6e19ea@unlimited.newshosting.com>
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
NNTP-Posting-Host: 70.121.205.178
X-Complaints-To: abuse@newshosting.com
Xref: g2news2.google.com rec.radio.amateur.antenna:12425
rec.radio.amateur.homebrew:2790 alt.tv.tech.hdtv:18290

Elmo P. Shagnasty wrote:
> In article <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>,
>  Usual Suspect <reply@thegroup.net> wrote:
>
>> I must say at the outset that I am hesitant to buy an antenna based on its
>> form-factor, but I'm forced by the local code to not display bare-element
>> type antennae on the mast.
>
> I don't believe the local code has any say in the matter.
>
> But if you want to give up your rights...

When I lived in Miami; there was a subdivision in Miami Lakes that had
banned TV antennas (before the FCC ruling). A homeowner had constructed
some form of "artwork" with a TV antenna in front of his house. It was
positioned toward the sky, unusable, but unmistakably a TV antenna!

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Use only Genuine Interocitor Parts" Tom Servo  ;-P


From 5079720345063788661
X-Google-Thread: 241b302a50,c0721f5602991b56,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!news.bellsouth.net!flph200.ffdc.sbc.com!prodigy.net!
flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!nlpi070.nbdc.sbc.com.POSTED!
c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: remote wireless device ?
Lines: 7
```

```
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
x-mimeole: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <4wBVl.18292$%54.8830@nlpi070.nbdc.sbc.com>
NNTP-Posting-Host: 70.143.52.101
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi070.nbdc.sbc.com 1244062848 ST000 70.143.52.101 (Wed, 03 Jun 2009
17:00:48 EDT)
NNTP-Posting-Date: Wed, 03 Jun 2009 17:00:48 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
OP[MBXSEFRUARSH]]RKB_UDAZZ\DPCPDLXUNNHPHBATBTSUBYFWEAE[YJLYPIWKHTFCMZKVMB^[Z^DOBRV
VMOSPFHNSYXVDIE@X\BUC@GTSX@DL^GKFFHQCCE\G[JJBMYDYIJCZM@AY]GNGPJD]YNNW\GSX^GSCKHA[]
@CCB\[@LATPD\L@J\\PF]VR[QPJN
Date: Wed, 3 Jun 2009 16:00:49 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:2791
```

I'd like to find a small battery powered wireless device that I could
install on a mailbox that would send a signal when the box is opened.
I'd install a set of contacts to either open or close, and have the
monitor in the house about 100 feet away. Any ideas appreciated.
Thanks
Hank

```
From -7232273608329787864
X-Google-Thread: 241b302a50,c0721f5602991b56
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!news-out.octanews.net!
indigo.octanews.net!news-1.mpls.iphouse.net.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: remote wireless device ?
From: Bert Hyman <bert@iphouse.com>
References: <4wBVl.18292$%54.8830@nlpi070.nbdc.sbc.com>
Organization: Not that you'd notice
Message-ID: <Xns9C1FA64B57A4DVeebleFetzer@216.250.184.7>
User-Agent: Xnews/2006.08.24
Date: 03 Jun 2009 21:20:50 GMT
Lines: 12
NNTP-Posting-Date: 03 Jun 2009 16:20:50 CDT
NNTP-Posting-Host: 765343b8.newsreader.iphouse.net
X-Trace: DXC=LL25YYN^U\Q:]nd_oAHjRPUU[C:R=]MbZeHS>e[L>83PlAaB]2?
```

```
6hJUc230oU7d71QX7@2h;nGb4]kYkie7i_c>S
X-Complaints-To: abuse@iphouse.net
X-Original-Bytes: 1238
Xref: g2news2.google.com rec.radio.amateur.homebrew:2792

In news:4wBVl.18292$%54.8830@nlpi070.nbdc.sbc.com "Henry Kolesnik"
<kolesnik@nojunksbcglobal.net> wrote:

> I'd like to find a small battery powered wireless device that I could
> install on a mailbox that would send a signal when the  box is opened.
> I'd install a set of contacts to either open or close, and have the
> monitor in the house about 100 feet away.  Any ideas appreciated.

Just google "wireless mailbox alarm" and you'll get tons of choices.

--
Bert Hyman    St. Paul, MN  bert@iphouse.com


From -8121749832619192946
X-Google-Thread: 241b302a50,c0721f5602991b56
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!
news2.glorb.com!news-xfer.nntp.sonic.net!news.astraweb.com!
border2.newsrouter.astraweb.com!flph200.ffdc.sbc.com!prodigy.net!
flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!nlpi070.nbdc.sbc.com.POSTED!
c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4wBVl.18292$%54.8830@nlpi070.nbdc.sbc.com>
<Xns9C1FA64B57A4DVeebleFetzer@216.250.184.7>
Subject: Re: remote wireless device ?
Lines: 19
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
x-mimeole: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <0mEVl.18313$%54.15295@nlpi070.nbdc.sbc.com>
NNTP-Posting-Host: 70.143.52.101
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi070.nbdc.sbc.com 1244074492 ST000 70.143.52.101 (Wed, 03 Jun 2009
20:14:52 EDT)
NNTP-Posting-Date: Wed, 03 Jun 2009 20:14:52 EDT
Organization: at&t http://my.att.net/
```

```
X-UserInfo1:
SCSYASJDZBUYR_PXGZID]_\@VR]^@B@MCPWZKB]MPXHTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Wed, 3 Jun 2009 19:14:53 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:2793

Thanks..
found one on eBay
http://cgi.ebay.com/Mail-Box-Remote-ALARM-MOTION-DETECTOR-WIRELESS-
Mailbox_W0QQcmdZViewItemQQcategoryZ102536QQihZ005QQitemZ150329575535QQsalenotsuppo
rted
"Bert Hyman" <bert@iphouse.com> wrote in message
news:Xns9C1FA64B57A4DVeebleFetzer@216.250.184.7...
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> Just google "wireless mailbox alarm" and you'll get tons of choices.
>
> --
> Bert Hyman St. Paul, MN bert@iphouse.com



From -2519319618604920926
X-Google-Thread: 241b302a50,34b95383f27d5295
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!s28g2000vbp.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LMX2326 & Homebrew
Date: Thu, 4 Jun 2009 05:09:41 -0700 (PDT)
Organization: http://groups.google.com
Lines: 48
Message-ID: <6bc50c25-5245-478b-a30d-bd2a0499e24b@s28g2000vbp.googlegroups.com>
References: <0f7ea44b-7da7-4a14-8982-b175e3e81092@m19g2000yqk.googlegroups.com>
     <c648286c-67e9-4dac-9437-cd701035f7e3@s28g2000vbp.googlegroups.com>
     <08518b91-2644-4fa8-94fa-e167d72c30e4@c9g2000yqm.googlegroups.com>
NNTP-Posting-Host: 76.226.206.226
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1244117381 26282 127.0.0.1 (4 Jun 2009 12:09:41 GMT)
X-Complaints-To: groups-abuse@google.com
```

```
NNTP-Posting-Date: Thu, 4 Jun 2009 12:09:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s28g2000vbp.googlegroups.com; posting-host=76.226.206.226;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.10)
     Gecko/2009042316 Firefox/3.0.10 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2794

On Jun 1, 1:55=A0am, EFR <kevin.v...@gmail.com> wrote:
> On May 31, 5:51=A0pm, raypsi <RBorow...@gmail.com> wrote:
>
>
>
> > On May 31, 3:34=A0am, EFR <kevin.v...@gmail.com> wrote:
>
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e
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>
> > Hey OM:
>
> > Sure discrete is ok, you are going to use =A0GaAs fets i assume? =A0The
> > caveat is feedback the correct signal level to Fin or NOT>Fin.
>
> > 73 OM
> > de n8zu
>
> I'll be using FET transistors, or experimenting. It's a learning
> project anyway since I'm heading into microwave terrority next year
> for my Master' degree. And I thought I'd get a head start by building
> and designing some projects such as PLL driven VCO.
>
> I'm now just looking for a good book on oscillator design. Any
> suggestions?

Hey OM:

Nothing like a book to use for information like this.
I would point you to Electronic Design News. The monthly rag that has
plenty more up to date articles and information with footnotes.
There's cornucopia of info just in the footnotes alone in every
article.

I remember one article, I like to catch so called knowledgeable people
with: a modulation domain analyzer. Nobody ever heard of it, one of
the best tools ever invented. Is what an spectrum analyzer is to a
time based sweep scope: as the modulation domain analyzer is to a
```

spectrum analyzer,

73 OM
de n8zu

```
From 2848936836058162967
X-Google-Thread: 241b302a50,34b95383f27d5295
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!r34g2000vba.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LMX2326 & Homebrew
Date: Thu, 4 Jun 2009 14:19:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 71
Message-ID: <fd8bbfdc-e4bc-4366-a14e-50705c19d31f@r34g2000vba.googlegroups.com>
References: <0f7ea44b-7da7-4a14-8982-b175e3e81092@m19g2000yqk.googlegroups.com>
     <c648286c-67e9-4dac-9437-cd701035f7e3@s28g2000vbp.googlegroups.com>
     <08518b91-2644-4fa8-94fa-e167d72c30e4@c9g2000yqm.googlegroups.com>
     <6bc50c25-5245-478b-a30d-bd2a0499e24b@s28g2000vbp.googlegroups.com>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1244150368 1744 127.0.0.1 (4 Jun 2009 21:19:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 4 Jun 2009 21:19:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r34g2000vba.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.10)
     Gecko/2009042316 Firefox/3.0.10,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2795

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there are also lots of articles from various magazines. "RF Design,"
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of "Wireless World," too.

Continuing the basenote drift: Dunno if it was ever marketed
specifically under the name "modulation domain analyzer," but the the
HP89410 series of Vector Signal Analyzers is extremely good at that
sort of thing. The Agilent 89600 series is likewise very good at

complex analysis tasks.

Cheers,
Tom

From -8067795405518349153
X-Google-Thread: 241b302a50,34b95383f27d5295
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 04 Jun 2009 21:15:07 -0500
From: "Dave M" <masondg4499@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <0f7ea44b-7da7-4a14-8982-b175e3e81092@m19g2000yqk.googlegroups.com>
<c648286c-67e9-4dac-9437-cd701035f7e3@s28g2000vbp.googlegroups.com>
<08518b91-2644-4fa8-94fa-e167d72c30e4@c9g2000yqm.googlegroups.com>
<6bc50c25-5245-478b-a30d-bd2a0499e24b@s28g2000vbp.googlegroups.com> <fd8bbfdc-
e4bc-4366-a14e-50705c19d31f@r34g2000vba.googlegroups.com>
Subject: Re: LMX2326 & Homebrew
Date: Thu, 4 Jun 2009 22:15:06 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <a_-dncwfH4c24rXXnZ2dnUVZ_hydnZ2d@giganews.com>
Lines: 83
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-HEKm3/kC3z6uKV2f7kT/
db3uNqbRsPO499vbJJ4rAkiZgt7xsA1zn1UjXqbsiLEqZJcZ6+SZc0VWQQL!
pSalqMT03KtBTG07S9a8I6GvCh9aBDj3VKvCt54jsg2ftuUFA14NizRegfGNjNU08sko9zEVGs0=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 4595
Xref: g2news2.google.com rec.radio.amateur.homebrew:2796

"K7ITM" <k7itm@msn.com> wrote in message
news:fd8bbfdc-e4bc-4366-a14e-50705c19d31f@r34g2000vba.googlegroups.com...
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Cheers,
Tom

A book that was recommended to me just a couple weeks ago is "RF and Microwave Transistor Oscillator Design", Grebennikov (Wiley, ISBN 0470025352). I haven't ordered a copy yet, but the recommendation came from a very knowledgeable designer.

--
Dave M
masondg44 at comcast dot net

One good thing about Alzheimer's; you get to meet new people every day.

```
From 3697057806976001752
X-Google-Thread: 241b302a50,34b95383f27d5295
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!c36g2000yqn.googlegroups.com!not-for-
mail
From: devil103 <kevin.voet@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LMX2326 & Homebrew
Date: Thu, 4 Jun 2009 22:41:56 -0700 (PDT)
Organization: http://groups.google.com
Lines: 100
Message-ID: <9fb91d5c-6aae-43dc-b7e5-47910ab70613@c36g2000yqn.googlegroups.com>
References: <0f7ea44b-7da7-4a14-8982-b175e3e81092@m19g2000yqk.googlegroups.com>
     <c648286c-67e9-4dac-9437-cd701035f7e3@s28g2000vbp.googlegroups.com>
     <08518b91-2644-4fa8-94fa-e167d72c30e4@c9g2000yqm.googlegroups.com>
     <6bc50c25-5245-478b-a30d-bd2a0499e24b@s28g2000vbp.googlegroups.com>
     <fd8bbfdc-e4bc-4366-a14e-50705c19d31f@r34g2000vba.googlegroups.com>
     <a_-dncwfH4c24rXXnZ2dnUVZ_hydnZ2d@giganews.com>
NNTP-Posting-Host: 78.20.253.190
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1244180517 4302 127.0.0.1 (5 Jun 2009 05:41:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 5 Jun 2009 05:41:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c36g2000yqn.googlegroups.com; posting-host=78.20.253.190;
```

```
     posting-account=Rl-rOgoAAAAXmwpvLh0Gj1nggU1UreIJ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.1; nl; rv:1.9.0.10)
     Gecko/2009042316 Firefox/3.0.10 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2797

On Jun 5, 4:15=A0am, "Dave M" <masondg4...@comcast.net> wrote:
> "K7ITM" <k7...@msn.com> wrote in message
>
> news:fd8bbfdc-e4bc-4366-a14e-50705c19d31f@r34g2000vba.googlegroups.com...
> On Jun 4, 5:09 am, raypsi <RBorow...@gmail.com> wrote:
>
>
>
> > On Jun 1, 1:55 am, EFR <kevin.v...@gmail.com> wrote:
> > > On May 31, 5:51 pm, raypsi <RBorow...@gmail.com> wrote:
>
> > > > On May 31, 3:34 am, EFR <kevin.v...@gmail.com> wrote:
>
> > > > > I'm in possestion of 4 LMX2326 PLL IC's and I'm looking for proje=
cts
> > > > > to use them in.
>
> > > > > I was thinking of building and designing an RF Signal Generator b=
ut
> > > > > I'm confused about the VCO. Is it possible to use the LMX2326 to
> > > > > drive
> > > > > a VCO built up of discrete components or do you have to work with=
 an
> > > > > VCO IC like the ones from minicircuits?
>
> > > > Hey OM:
>
> > > > Sure discrete is ok, you are going to use GaAs fets i assume? The
> > > > caveat is feedback the correct signal level to Fin or NOT>Fin.
>
> > > > 73 OM
> > > > de n8zu
>
> > > I'll be using FET transistors, or experimenting. It's a learning
> > > project anyway since I'm heading into microwave terrority next year
> > > for my Master' degree. And I thought I'd get a head start by building
> > > and designing some projects such as PLL driven VCO.
>
> > > I'm now just looking for a good book on oscillator design. Any
> > > suggestions?
>
> > Hey OM:
>
> > Nothing like a book to use for information like this.
> > I would point you to Electronic Design News. The monthly rag that has
> > plenty more up to date articles and information with footnotes.
> > There's cornucopia of info just in the footnotes alone in every
```

> > article.
>
> > I remember one article, I like to catch so called knowledgeable people
> > with: a modulation domain analyzer. Nobody ever heard of it, one of
> > the best tools ever invented. Is what an spectrum analyzer is to a
> > time based sweep scope: as the modulation domain analyzer is to a
> > spectrum analyzer,
>
> > 73 OM
> > de n8zu
>
> I'd say there are some good oscillator design books out there, and
> there are also lots of articles from various magazines. =A0"RF Design,"
> "Microwave Journal," and "Microwaves and RF" all come to mind. =A0I know
> that Ulrich Rohde has written some good articles on the subject. =A0He's
> also written books on the subject, like "Microwave and Wireless
> Synthesizers." =A0Dunno how good the book is, but I do respect the
> author. =A0Seems like I have some photocopies of decent VCO articles out
> of "Wireless World," too.
>
> Continuing the basenote drift: =A0Dunno if it was ever marketed
> specifically under the name "modulation domain analyzer," but the the
> HP89410 series of Vector Signal Analyzers is extremely good at that
> sort of thing. =A0The Agilent 89600 series is likewise very good at
> complex analysis tasks.
>
> Cheers,
> Tom
>
> A book that was recommended to me just a couple weeks ago is "RF and
> Microwave Transistor Oscillator Design", Grebennikov (Wiley, ISBN
> 0470025352). =A0I haven't ordered a copy yet, but the recommendation came=
 from
> a very knowledgeable designer.
>
> --
> Dave M
> masondg44 at comcast dot net
>
> One good thing about Alzheimer's; you get to meet new people every day.

I just bought that book by Grebennikov not 24 hours ago. I've quickly
scanned it through and it's a worthwhile addition to the library. It's
a little heavy on the math but has great examples and design
exercices. A serious knowledge of transistors and electronics is
required before starting in this book. Biasing and S-parameters aren't
explained (references given though).

And PCB layout isn't handled either, this is something of a drawback
if you ask me.

I'll be on the lookout for Ulrich Rohde's book.

```
From 62878547963216591
X-Google-Thread: 241b302a50,200e892aa95da980,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h23g2000vbc.googlegroups.com!not-for-mail
From: gumbyridespokey <gumbyridespokey@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Does anyone know anything about Voice above or over ip provider?
Date: Sat, 6 Jun 2009 06:43:59 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <547a2f1e-d012-44e8-b887-c10e39f5538d@h23g2000vbc.googlegroups.com>
NNTP-Posting-Host: 76.69.129.229
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1244295839 3685 127.0.0.1 (6 Jun 2009 13:43:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 6 Jun 2009 13:43:59 +0000 (UTC)
Cc: gooey@crawler.com
Complaints-To: groups-abuse@google.com
Injection-Info: h23g2000vbc.googlegroups.com; posting-host=76.69.129.229;
     posting-account=5bNk-AoAAABJqABavKq_0bFdF8qrNVpX
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 1.1.4322; .NET CLR 2.0.50727; MSN Optimized;CA; .NET
     CLR 3.0.4506.2152; .NET CLR 3.5.30729; MSN Optimized;CA),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2798
```

I have been getting sounds in our house that seems to come from electronic stuff around the house.
I also listened to what sounded like voices coming from behind the computer?

We as a Family are stumped. We have written Bell Canada as well as call there teck support, They don't understand what voice over ip provider?

Someone has mentioned that this could be happening to get into banks , homes, anything really. If you hack could you please tell me how to fix this.

As we said we are stumped?
Thanks
Dave
Toronto, Canada

From 4128884011259078328

X-Google-Thread: 241b302a50,200e892aa95da980
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!newsgate.cuhk.edu.hk!news.netfront.net!not-for-mail
From: Jitt <tser827@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Does anyone know anything about Voice above or over ip provider?
Date: Sat, 6 Jun 2009 07:37:20 -0700
Organization: Netfront http://www.netfront.net
Lines: 25
Message-ID: <MPG.24941edd678f499e9896d9@news.bcsupernet.com>
References: <547a2f1e-d012-44e8-b887-c10e39f5538d@h23g2000vbc.googlegroups.com>
NNTP-Posting-Host: 216.113.198.93
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-15"
Content-Transfer-Encoding: 7bit
X-Trace: adenine.netfront.net 1244299038 44337 216.113.198.93 (6 Jun 2009 14:37:18 GMT)
X-Complaints-To: news@netfront.net
NNTP-Posting-Date: Sat, 6 Jun 2009 14:37:18 +0000 (UTC)
User-Agent: MicroPlanet-Gravity/2.60.2060
Xref: g2news2.google.com rec.radio.amateur.homebrew:2799
X-Original-Bytes: 1833

In article <547a2f1e-d012-44e8-b887-c10e39f5538d@h23g2000vbc.googlegroups.com>, gumbyridespokey@gmail.com says...

> I have been getting sounds in our house that seems to come from
> electronic stuff around the house.
> I also listened to what sounded like voices coming from behind the
> computer?
>
> We as a Family are stumped. We have written Bell Canada as well as
> call there teck support, They don't understand what voice over ip
> provider?
>
> Someone has mentioned that this could be happening to get into banks ,
> homes, anything really. If you hack could you please tell me how to
> fix this.
>
> As we said we are stumped?
> Thanks
> Dave
> Toronto, Canada
>

Do you use dialup, with an internal modem? Modern telephone systems helpfully give a voice message for a busy signal. This would come through the sounder unit on the modem card: voice in the computer!

From 3641098621057132140
X-Google-Thread: 241b302a50,200e892aa95da980
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed3.bellsouth.net!news.bellsouth.net!border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 06 Jun 2009 12:08:06 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Does anyone know anything about Voice above or over ip provider?
References: <547a2f1e-d012-44e8-b887-c10e39f5538d@h23g2000vbc.googlegroups.com>
<MPG.24941edd678f499e9896d9@news.bcsupernet.com>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Sat, 6 Jun 2009 09:45:51 -0700
Message-ID: <v2jqf6-b85.ln1@radagast.org>
Lines: 73
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.159.209.148
X-Trace: sv3-YvuGhxNpCi8FPDpaIqnex63kvxp3BeufhFk9m2aSjPAk41VUmiY23MltHovOfhD6c2qQdqkX0W6C8jc!prhppK73qYA2UP2H3cD/n5sWomC9C9IsXsVs7dVFRmSJ2hDdv504YdtuOdfBBQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2800

> I have been getting sounds in our house that seems to come from
> electronic stuff around the house.
> I also listened to what sounded like voices coming from behind the
> computer?

Voices coming out of loudspeakers or other electronic equipment which contains them, can occur as the result of strong radio frequency signals. A strong enough RF signal, modulated by someone's voice, can be picked up by the household wiring (mains cables, telephone wire, speaker cables, etc.) and leak into the electronic equipment. Once inside the equipment, it can be accidentally "detected" (converted from radio frequencies back to audio) by semiconductors in the circuitry, amplified, and played out through the equipment's speakers.

Telephones, answering machines, baby monitors, powered subwoofers, computer speaker systems, etc. can all be prone to this. I suppose that an internal modem card in a PC - one with a loudspeaker - could pick up enough RF via its phone-line connection to start detecting audio in this way.

The strong RF signal might come from any of a number of sources... all probably fairly close to the house. Commercial AM transmitters can cause this, as can ham-radio transmitters, and CB radios. Here in the U.S., *legal* CB transmissions usually aren't strong enough to cause problems, but some CB operators use illegal high-power amplifiers that can boost the signal far enough to cause this sort of inadvertent pickup.

I don't know what the law is about this sort of problem in Canada. Here in the U.S., the FCC generally considers it to be a defect in the equipment which is picking up the RF - if a device isn't *supposed* to be a radio, it shouldn't *behave" like a radio, is their thinking. It's referred to as "undesired operation", and the "Part 15" notice which comes with most consumer electronic devices says that the device "must accept radio frequency interference, including that which causes undesired operation."

There are several ways to address the problem:

- Replace the RF-sensitive devices with better-designed devices that don't have the problem.

- Add RF filters or chokes to the phone lines, speaker cables, power lines, etc. to block the RF before it enters the equipment.

- Find the person or company whose transmitters are generating the RF, and ask them to stop (they'll probably refuse, as they often have a perfectly good legal license to transmit).

- Live with it.

- Move.

If you can find which pieces of equipment are picking up the RF (and, in doing so, confirm that this is the problem) you can likely correct the problem with some clamp-on ferrite chokes, and/or a telephone-line RF filter (a DSL mini-filter may well do the job).

See http://www.palomar-engineers.com/RFI_Kit/rfi_kit.html for a kit of ferrite components specifically intended for this sort of household problem.

I'm not sure what connection there might be between the voices/noises you are hearing, and any "voice over IP provider". Your message isn't clear whether you actually have telephone service over IP, or whether you think someone else's voice-over-IP service is affecting you accidentally (very unlikely, in my opinion).

--
Dave Platt <dplatt@radagast.org>   AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will

boycott any company which has the gall to send me such ads!

```
From -7471229251871132797
X-Google-Thread: a4a23d5f63,73142b94770f39d8,start
X-Google-Attributes: gida4a23d5f63,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!transit3.readnews.com!
news-out.readnews.com!transit4.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1241676300@panix.com>
Followup-To: poster
Date: 7 Jun 2009 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 10 Jul 2009 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1244354701@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1244354702 6252 166.84.1.2 (7 Jun 2009 06:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 7 Jun 2009 06:05:02 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news2.google.com rec.radio.amateur.antenna:12634 rec.radio.amateur.dx:412
rec.radio.amateur.equipment:1568 rec.radio.amateur.homebrew:2801
rec.radio.amateur.misc:4284 rec.radio.amateur.policy:26374 rec.radio.info:776

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/
```

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions. We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

From -5628138847531383342
X-Google-Thread: 733d321764,1f4fbd366b303df,start
X-Google-Attributes: gid733d321764,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2.glorb.com!
news.netfront.net!not-for-mail
From: "Rick" <pissousky@yahoo.ca>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebr
ew,rec.radio.amateur.misc,rec.radio.swap
Subject: Need help.: OMNI-D 546 Receiving problems.!
Date: Sun, 7 Jun 2009 21:57:26 -0400
Organization: Netfront http://www.netfront.net
Lines: 9
Message-ID: <h0hr6b$1i5p$1@adenine.netfront.net>
Reply-To: "Rick" <pissousky@yahoo.ca>
NNTP-Posting-Host: 66.130.219.31
X-Trace: adenine.netfront.net 1244426252 51385 66.130.219.31 (8 Jun 2009 01:57:32
GMT)
X-Complaints-To: news@netfront.net
NNTP-Posting-Date: Mon, 8 Jun 2009 01:57:32 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Xref: g2news2.google.com rec.radio.amateur.boatanchors:2986
rec.radio.amateur.equipment:1570 rec.radio.amateur.homebrew:2802
rec.radio.amateur.misc:4289 rec.radio.swap:2155

Please help me to solve my omni-d problem.... It lost 90% of the receive side.I can barely hear signals that were usually 30 over 9.but what gets me it is that I flip the switch in the back to "receive" instead of leaving it in the transceive position and use the receive jack(not the pl-259) and it receive normally.I opened it and checked the relay(contacts) and they are ok....I took a wire antenna and jumped it to the "input signal pin" of the rx mixer and the reception cames back....any ideas guys.......

```
From -6234954221781610134
X-Google-Thread: 241b302a50,e81a4197bd3cacb3,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l12g2000yqo.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Astron Power supply mod
Date: Sun, 7 Jun 2009 20:19:42 -0700 (PDT)
Organization: http://groups.google.com
Lines: 10
Message-ID: <baa7b8ba-ebf3-423d-b890-3dbd401ae86e@l12g2000yqo.googlegroups.com>
NNTP-Posting-Host: 75.191.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1244431183 4007 127.0.0.1 (8 Jun 2009 03:19:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 8 Jun 2009 03:19:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l12g2000yqo.googlegroups.com; posting-host=75.191.176.71;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
     3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2803
```

I have been considerring modify an Astron 30 amp power supply to work at 26 volts. I was thinking maybe I could do this by changing the half bridge rectifier to a full bridge unit. Replacing the caps and modifying the regulator circuit. I want to use the power supply to power some 24 volt equipment and also maintain the charge on a 24 volt 100 amp/hr battery. I shamefully admit that I havent done much research on doing this but was hoping someone else already had and could save me some work.

Jimmie

From 8229896318973716520
X-Google-Thread: 733d321764,1f4fbd366b303df
X-Google-Attributes: gid733d321764,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!news2.glorb.com!news.astraweb.com!border5.newsrouter.astraweb.com!flph200.ffdc.sbc.com!prodigy.net!news.linkpendium.com!news.linkpendium.com!pit-transit.telstra.net!news.telstra.net!news-server.bigpond.net.au!53ab2750!not-for-mail
From: "VK2KC" <vk2kcjohn@gmail.com>
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.swap
References: <h0hr6b$1i5p$1@adenine.netfront.net>
Subject: Re: Need help.: OMNI-D 546 Receiving problems.!
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <683Xl.17063$y61.3474@news-server.bigpond.net.au>
Date: Mon, 08 Jun 2009 07:32:18 GMT
NNTP-Posting-Host: 58.168.73.124
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1244446338 58.168.73.124 (Mon, 08 Jun 2009 17:32:18 EST)
NNTP-Posting-Date: Mon, 08 Jun 2009 17:32:18 EST
Organization: BigPond Internet Services
Xref: g2news2.google.com rec.radio.amateur.boatanchors:2988 rec.radio.amateur.equipment:1571 rec.radio.amateur.homebrew:2804 rec.radio.amateur.misc:4290 rec.radio.swap:2156

I used to own an Omni D 546, and I did have some problems with it, but not a receive problem but an email to TenTech, got me going in the right direction, and actually the manual that is supplied gives a huge amount of info on fault finding etc. Perhaps you could try to find a copy?

73
john
"Rick" <pissousky@yahoo.ca> wrote in message
news:h0hr6b$1i5p$1@adenine.netfront.net...
> Please help me to solve my omni-d problem.... It lost 90% of the receive
> side.I can barely hear signals that were usually 30 over 9.but what gets
> me it is that I flip the switch in the back to "receive" instead of
> leaving it in the transceive position and use the receive jack(not the
> pl-259) and it receive normally.I opened it and checked the
> relay(contacts) and they are ok....I took a wire antenna and jumped it to
> the "input signal pin" of the rx mixer and the reception cames back....any
> ideas guys.......

```
>
>




From -5156600004630503216
X-Google-Thread: 733d321764,1f4fbd366b303df
X-Google-Attributes: gid733d321764,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!h18g2000yqj.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebr
ew,rec.radio.amateur.misc,rec.radio.swap
Subject: Re: Need help.: OMNI-D 546 Receiving problems.!
Date: Mon, 8 Jun 2009 01:24:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <b4b07555-2a79-4219-8657-d742c2546d3e@h18g2000yqj.googlegroups.com>
References: <h0hr6b$1i5p$1@adenine.netfront.net>
NNTP-Posting-Host: 75.191.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1244449466 11736 127.0.0.1 (8 Jun 2009 08:24:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 8 Jun 2009 08:24:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h18g2000yqj.googlegroups.com; posting-host=75.191.176.71;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
     3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.boatanchors:2989
rec.radio.amateur.equipment:1573 rec.radio.amateur.homebrew:2805
rec.radio.amateur.misc:4291 rec.radio.swap:2157

On Jun 7, 9:57=A0pm, "Rick" <pissou...@yahoo.ca> wrote:
> Please help me to solve my =A0omni-d problem.... It lost 90% of the recei=
ve
> side.I can barely hear signals that were usually 30 over 9.but what gets =
me
> it is that I flip the switch in the back to "receive" instead of leaving =
it
> in the transceive position and use the receive jack(not the pl-259) and i=
t
> receive normally.I opened it and checked the relay(contacts) and they are
> ok....I took a wire antenna and jumped it to the "input signal pin" of th=
e
```

> rx mixer and the reception cames back....any ideas guys.......

How did you check the relay contacts? My neighbor, now SK, had one with a problem that sounds like yours and it was the relay. You cant always tell just by looking.

Jimmie

From -1897206771836438955
X-Google-Thread: 241b302a50,e81a4197bd3cacb3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!z9g2000yqi.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Astron Power supply mod
Date: Mon, 8 Jun 2009 01:50:10 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <2fc58de6-b684-47d4-9d88-6d9dbdfc0f70@z9g2000yqi.googlegroups.com>
References: <baa7b8ba-ebf3-423d-b890-3dbd401ae86e@l12g2000yqo.googlegroups.com>
NNTP-Posting-Host: 75.191.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1244451010 1304 127.0.0.1 (8 Jun 2009 08:50:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 8 Jun 2009 08:50:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z9g2000yqi.googlegroups.com; posting-host=75.191.176.71;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
     3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2806

On Jun 7, 11:19=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> I have been considerring modify an Astron 30 amp power supply to work
> at 26 volts. I was thinking maybe I could do this by changing the half
> bridge rectifier to a full bridge unit. Replacing the caps and
> modifying the regulator circuit. I want to use the power supply to
> power some 24 volt equipment and also maintain the charge on a 24 volt
> 100 amp/hr battery. I shamefully admit that I havent done much
> research on doing this but was hoping someone else already had and
> could save me some work.
>
> Jimmie

oops, now I see why that wont work. I guess I am going to have to do this from scratch

Jimmie

```
From 7175848142766105694
X-Google-Thread: 241b302a50,e81a4197bd3cacb3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e20g2000vbc.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Astron Power supply mod
Date: Mon, 8 Jun 2009 03:50:10 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <21164f12-4db1-48e5-aa15-b494fa200da4@e20g2000vbc.googlegroups.com>
References: <baa7b8ba-ebf3-423d-b890-3dbd401ae86e@l12g2000yqo.googlegroups.com>
     <2fc58de6-b684-47d4-9d88-6d9dbdfc0f70@z9g2000yqi.googlegroups.com>
NNTP-Posting-Host: 76.226.206.226
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1244458210 6069 127.0.0.1 (8 Jun 2009 10:50:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 8 Jun 2009 10:50:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e20g2000vbc.googlegroups.com; posting-host=76.226.206.226;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.0.10)
     Gecko/2009042523 Ubuntu/9.04 (jaunty) Firefox/3.0.10,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2807
```

>
> oops, now I see why that wont work. I guess I am going to have to do
> this from scratch
>
> Jimmie

Well OM:

Maybe and maybe not.

A battery charger IC would be a lot better than a regulator, like a
MAX713, which is for NiMh batteries, or the UC3906.
So if that's from scratch I guess you are right.

73 OM

de n8zu

```
From 3087807732912058147
X-Google-Thread: 241b302a50,e81a4197bd3cacb3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe22.iad.POSTED!7564ea0f!not-for-mail
From: "Larry Gauthier \(K8UT\)" <MyCallsign@ARRL.NET>
Newsgroups: rec.radio.amateur.homebrew
References: <baa7b8ba-ebf3-423d-b890-3dbd401ae86e@l12g2000yqo.googlegroups.com>
Subject: Re: Astron Power supply mod
Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <HK7Xl.30868$VL5.19447@newsfe22.iad>
NNTP-Posting-Host: ilkfdcjalhmfnfbeojolemlkdfkcgnoh
X-Complaints-To: abuse@charter.net
X-Trace:
mihnlfichcpjolhnkenaajobffgmphfmehcjlkbkahiojfjpilkfdcjalhmfnfbeppnpfhdkdajmobmehk
fbkjajmegdnladnonkdbkgfnhimmceejkoncbihfjgkopefdlbpmaelemcakjp
NNTP-Posting-Date: Mon, 08 Jun 2009 12:46:31 UTC
Date: Mon, 8 Jun 2009 08:46:22 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2808
```

Sounds like a lot of work. Have you considered buying another Astron supply and operating them in series?

Astron supplies can be used in series (double the voltage) and some in parallel (like the PS-50, double the current).
--
-larry
K8UT
"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
news:baa7b8ba-ebf3-423d-b890-3dbd401ae86e@l12g2000yqo.googlegroups.com...

> I have been considerring modify an Astron 30 amp power supply to work
> at 26 volts. I was thinking maybe I could do this by changing the half
> bridge rectifier to a full bridge unit. Replacing the caps and
> modifying the regulator circuit. I want to use the power supply to
> power some 24 volt equipment and also maintain the charge on a 24 volt
> 100 amp/hr battery. I shamefully admit that I havent done much
> research on doing this but was hoping someone else already had and
> could save me some work.
>
> Jimmie

From 2298770060824243526
X-Google-Thread: 241b302a50,200e892aa95da980
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe22.iad.POSTED!7564ea0f!not-for-mail
From: "Larry Gauthier \(K8UT\)" <MyCallsign@ARRL.NET>
Newsgroups: rec.radio.amateur.homebrew
References: <547a2f1e-d012-44e8-b887-c10e39f5538d@h23g2000vbc.googlegroups.com>
Subject: Re: Does anyone know anything about Voice above or over ip provider?
Lines: 65
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <v28Xl.30871$VL5.12288@newsfe22.iad>
NNTP-Posting-Host: ilkfdcjalhmfnfbeojolemlkdfkcgnoh
X-Complaints-To: abuse@charter.net
X-Trace: mihnlfichcpjolhnkenaajobffgmphfmbaogbmfckjpjdphjilkfdcjalhmfnfbeppnpfhdkdajmobmehkfbkjajmegdnladnonkdbkgfnhimmcedeecjajgffgdhndnfdlbpmaelemcakjp
NNTP-Posting-Date: Mon, 08 Jun 2009 13:07:39 UTC
Date: Mon, 8 Jun 2009 09:07:36 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2809

Dave,

Give us a little more information:

- are the sounds continuous? or only happen at certain times of the day?
- is it really voices? what does it sound like?
- "seems to come from electronic stuff around the house?" What kinds of stuff? Only the PC?

- do you hear the sound even when the "stuff" is turned off? Some very strong signals can by heard through stereo speakers even if the stereo is not running.
- "coming from BEHIND the computer?" In other words, not from the computer's speakers but somewhere else on the computer?
- How is your PC connected to the Internet: dial-up over phone lines? Cable TV modem? Phone company DSL?

A few troubleshooting hints:

Some people living near Radio or TV stations can hear those stations in electronic devices (phones, stereos, computer speakers). IF the sounds are continuous, that may be the source.

If the sounds are not continuous, but only heard once in a while, the sounds are more likely coming from some intermittent source. Perhaps a taxi cab or trucking company radio, a local CB or Ham radio operator... something like that.

Can you actually hear a voice, or does it sound like "Donald Duck?" If the voice is intelligible, it is more likely a CB operator running AM (amplitude modulation, the dominant mode on CB); whereas if it sounds like "Donald Duck" talking, it may be a Ham Radio running SSB (single sideband, the dominant mode on amateur radio).

As Dave Pratt mentioned in his excellent reply, there are ways to filter out unwanted stray RF energy.... but first you need to understand the source and how/where it is getting into your "stuff".

In my opinion, there is no way that VoIP (Voice over IP) could cause this problem... for a whole bunch of geeky reasons. You need to look somewhere else for the culprit.
--
-larry
K8UT
"gumbyridespokey" <gumbyridespokey@gmail.com> wrote in message
news:547a2f1e-d012-44e8-b887-c10e39f5538d@h23g2000vbc.googlegroups.com...
>I have been getting sounds in our house that seems to come from
> electronic stuff around the house.
> I also listened to what sounded like voices coming from behind the
> computer?
>
> We as a Family are stumped. We have written Bell Canada as well as
> call there teck support, They don't understand what voice over ip
> provider?
>
> Someone has mentioned that this could be happening to get into banks ,
> homes, anything really. If you hack could you please tell me how to
> fix this.
>
> As we said we are stumped?
> Thanks
> Dave
> Toronto, Canada

From 1306578095169533443
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew

```
References: <baa7b8ba-ebf3-423d-b890-3dbd401ae86e@l12g2000yqo.googlegroups.com>
<2fc58de6-b684-47d4-9d88-6d9dbdfc0f70@z9g2000yqi.googlegroups.com>
<21164f12-4db1-48e5-aa15-b494fa200da4@e20g2000vbc.googlegroups.com>
Subject: Re: Astron Power supply mod
Lines: 27
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <NRaXl.1395$u86.1392@nwrddc01.gnilink.net>
Date: Mon, 08 Jun 2009 16:18:53 GMT
NNTP-Posting-Host: 173.55.74.81
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1244477933 173.55.74.81 (Mon, 08 Jun 2009 12:18:53
EDT)
NNTP-Posting-Date: Mon, 08 Jun 2009 12:18:53 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2810

"raypsi" <RBorowiak@gmail.com> wrote in message
news:21164f12-4db1-48e5-aa15-b494fa200da4@e20g2000vbc.googlegroups.com...
>
> >
> > oops, now I see why that wont work. I guess I am going to have to do
> > this from scratch
> >
> > Jimmie
>
> Well OM:
>
> Maybe and maybe not.
>
> A battery charger IC would be a lot better than a regulator, like a
> MAX713, which is for NiMh batteries, or the UC3906.
> So if that's from scratch I guess you are right.
>
> 73 OM
> de n8zu

You can likely bypass the entire regulator and pick off 25 v raw from the
filter bank.  First thing to do would be to get the schematic.  You would
start by removing the regulator/crowbar anyway and swap in a perf board.  I
don't know what the voltage rating is on the filter bank though.  Schematics
are one page simple and out there on the Net.  There are some other  mods
out there with descriptions.  It is just a 723 comparator.



From -6532446481034160514
X-Google-Thread: 733d321764,1f4fbd366b303df
```

X-Google-Attributes: gid733d321764,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!STARBAND.NET-a2kHrUvQQWlmc!not-for-mail
From: You <you@shadow.orgs>
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.swap
Subject: Re: Need help.: OMNI-D 546 Receiving problems.!
Organization: Shadow.orgs
References: <h0hr6b$1i5p$1@adenine.netfront.net>
User-Agent: MT-NewsWatcher/3.5.3b2 (PPC Mac OS X)
Date: Mon, 08 Jun 2009 09:50:50 -0800
Message-ID: <you-86887F.09504808062009@unknown.usenetserver.com>
X-Complaints-To: abuse@usenetserver.com
Lines: 16
X-Trace: d4dd54a2d4f2831eb3df313664
Xref: g2news2.google.com rec.radio.amateur.boatanchors:2990 rec.radio.amateur.equipment:1576 rec.radio.amateur.homebrew:2811 rec.radio.amateur.misc:4292 rec.radio.swap:2158

In article <h0hr6b$1i5p$1@adenine.netfront.net>,
"Rick" <pissousky@yahoo.ca> wrote:

> Please help me to solve my omni-d problem.... It lost 90% of the receive
> side.I can barely hear signals that were usually 30 over 9.but what gets me
> it is that I flip the switch in the back to "receive" instead of leaving it
> in the transceive position and use the receive jack(not the pl-259) and it
> receive normally.I opened it and checked the relay(contacts) and they are
> ok....I took a wire antenna and jumped it to the "input signal pin" of the
> rx mixer and the reception cames back....any ideas guys.......

Grab the Schematic, ands start looking where the Transceive Input and
the Receive Only Input connect and then follow the Transceive line back
and test each component clear back to the connector.... You will likely
find it in the contacts, but it may be a PIN Diode Switch, or T/R Relay
problem depending on how the radio was designed...

From 4870467710135934468
X-Google-Thread: 241b302a50,1a09b1cdaada5211,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!newsp.newsguy.com!news1
From: Bill M <radioexray@geemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: The Scout kit
Date: Tue, 09 Jun 2009 21:12:13 -0400

Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 28
Message-ID: <h0n19g02mma@news1.newsguy.com>
NNTP-Posting-Host: p24d1bfbfff00000073b1290e905b03f4f4edcc2ec7af5129.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2812

http://www.qrpkits.com/scoutregen.html

I received mine and got it assembled this afternoon. Pretty nifty little radio and easy to build. No problems at all. The instruction manual gets an A+++. They did short me one part - A 1 meg/1/4w resistor.

I had just started my Kitchin rcvr when this one came out. After a few days of counting my coins I decided to go for it. Figured it would be fun to compare with my homebrew.
http://www.arrl.org/tis/info/pdf/95hb1768.pdf

The little rig works great. Frankly I think the front end is better than mine. Mine was crippled without a BCB trap to notch out my local station. This one has no trap and the local is not a bother. It also seems like its not as prone to overload as my circuit.

I thought the no-vernier tuning capacitor would be a big annoyance but its not so bad. The electronic fine tuning works great and the regeneration behaves well. I'm no fan of little tiny knobs but what the heck.

Gonna do some review on the front end of mine now that I see it could be better.

The kit gets a thumbs up from me. Total assembly time with the coil winding, decals, etc was about 4-5 leisurely hours.

-Bill WX4A

From 2044160508070359595
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net> <eedf031f-c023-4a15-abea-8a3b22751339@r16g2000vbn.googlegroups.com>
<Xns9C1CABF8C29B9greederxprtnet@194.177.98.144>

```
<TfJUl.67232$ho7.5840@newsfe10.iad>
<Xns9C1CE7992BD5Dgreederxprtnet@194.177.98.144>
<1fPUl.27886$c45.4537@nlpi065.nbdc.sbc.com>
<apd825dus5d4b11qnds099cop5270tkku8@4ax.com>
Subject: Re: "Panel" style UHF DTV antenna?
Date: Tue, 9 Jun 2009 20:21:07 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Message-ID: <c8740$4a2f0a87$18d6b40c$28826@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 12
X-Trace: c87404a2f0a87bd7311a928826
Xref: g2news2.google.com rec.radio.amateur.antenna:12733
rec.radio.amateur.homebrew:2813 alt.tv.tech.hdtv:18585



>>A mismatch can cause ghosting in an analog TV.
>>What does ghosting do to a digital TV signal?

  Just as a point of interest (to me at least) I grew up within 3 blocks of
an airport, it
was a several times a day occurance to have the picture flutter as an
airplane flew by.
                                                 Mike




From 6043378826243660734
X-Google-Thread: 241b302a50,28b81590dafe1e82,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y33g2000prg.googlegroups.com!not-for-
mail
From: bruteman <brutemann@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FOR GAMERS ONLY
Date: Wed, 10 Jun 2009 19:16:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <e29d222d-5bd4-40c4-8751-ff82de14d4e4@y33g2000prg.googlegroups.com>
NNTP-Posting-Host: 119.94.37.8
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1244686580 29298 127.0.0.1 (11 Jun 2009 02:16:20 GMT)
X-Complaints-To: groups-abuse@google.com
```

```
NNTP-Posting-Date: Thu, 11 Jun 2009 02:16:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y33g2000prg.googlegroups.com; posting-host=119.94.37.8;
     posting-account=l2Tf4QoAAACjUwxntj2nP7N6StVUob6R
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.10)
     Gecko/2009042316 Firefox/3.0.10,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2814

-------------------------------------------------

http://gpoi.mybrute.com/

-------------------------------------------------
```

Let's get it on!

Insert a name to create your own Brute.

You will be able to fight against other Brutes in the arena.

Gain experience and fight tough in the ranking to become...
THE BRUTE!

```
From 790332504767450363
```

```
From 790332504767450363
X-Google-Thread: 241b302a50,200e892aa95da980
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!i6g2000yqj.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Does anyone know anything about Voice above or over ip provider?
Date: Thu, 11 Jun 2009 21:34:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 97
Message-ID: <89d34c7d-1937-4e92-a08b-08300cdf4cba@i6g2000yqj.googlegroups.com>
References: <547a2f1e-d012-44e8-b887-c10e39f5538d@h23g2000vbc.googlegroups.com>
     <v28Xl.30871$VL5.12288@newsfe22.iad>
NNTP-Posting-Host: 68.61.97.40
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1244781250 24580 127.0.0.1 (12 Jun 2009 04:34:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 12 Jun 2009 04:34:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i6g2000yqj.googlegroups.com; posting-host=68.61.97.40;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.11)
```

```
     Gecko/2009060215 Firefox/3.0.11,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2815

hey OM:

I know the fix;get about 100ft roll of chicken wire. around your
computer built a small closet sized room with a door all from the
chicken wire. when you bring in the power lines put emi filters and
hash filters on the AC line. when bringing in the coax cable to the
modem put clamp on ferrite filters over the coax. use the shortest
possible lan cable to the computer from the modem. and then make sure
you ground the chicken wire to a good cold water pipe

another thing voip phone service can't be demodulated with anything
but a voip box. the modulation techniques they are using can't
demodulated  except with a voip box. And when they are in RF form the
cable modem has to demodulate the cable signals.

73 OM

de n8zu



On Jun 8, 9:07=A0am, "Larry Gauthier \(K8UT\)" <MyCalls...@ARRL.NET>
wrote:
> Dave,
>
> Give us a little more information:
>
> - are the sounds continuous? or only happen at certain times of the day?
> - is it really voices? what does it sound like?
> - "seems to come from electronic stuff around the house?" What kinds of
> stuff? Only the PC?
>
> - do you hear the sound even when the "stuff" is turned off? Some very
> strong signals can by heard through stereo speakers even if the stereo is
> not running.
> - "coming from BEHIND the computer?" In other words, not from the compute=
r's
> speakers but somewhere else on the computer?
> - How is your PC connected to the Internet: dial-up over phone lines? Cab=
le
> TV modem? Phone company DSL?
>
> A few troubleshooting hints:
>
> Some people living near Radio or TV stations can hear those stations in
> electronic devices (phones, stereos, computer speakers). IF the sounds ar=
e
> continuous, that may be the source.
>
> If the sounds are not continuous, but only heard once in a while, the sou=
nds
```

```
> are more likely coming from some intermittent source. Perhaps a taxi cab =
or
> trucking company radio, a local CB or Ham radio operator... something lik=
e
> that.
>
> Can you actually hear a voice, or does it sound like "Donald Duck?" If th=
e
> voice is intelligible, it is more likely a CB operator running AM (amplit=
ude
> modulation, the dominant mode on CB); whereas if it sounds like "Donald
> Duck" talking, it may be a Ham Radio running SSB (single sideband, the
> dominant mode on amateur radio).
>
> As Dave Pratt mentioned in his excellent reply, there are ways to filter =
out
> unwanted stray RF energy.... but first you need to understand the source =
and
> how/where it is getting into your "stuff".
>
> In my opinion, there is no way that VoIP (Voice over IP) could cause this
> problem... for a whole bunch of geeky reasons. You need to look somewhere
> else for the culprit.
> --
> -larry
> K8UT"gumbyridespokey" <gumbyridespo...@gmail.com> wrote in message
>
> news:547a2f1e-d012-44e8-b887-c10e39f5538d@h23g2000vbc.googlegroups.com...
>
> >I have been getting sounds in our house that seems to come from
> > electronic stuff around the house.
> > I also listened to what sounded like voices coming from behind the
> > computer?
>
> > We as a Family are stumped. We have written Bell Canada as well as
> > call there teck support, They don't understand what voice over ip
> > provider?
>
> > Someone has mentioned that this could be happening to get into banks ,
> > homes, anything really. If you hack could you please tell me how to
> > fix this.
>
> > As we said we are stumped?
> > Thanks
> > Dave
> > Toronto, Canada



From -9214096655093125510
X-Google-Thread: 241b302a50,28b81590dafe1e82
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed3.bellsouth.net!
news.bellsouth.net!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 12 Jun 2009 08:14:13 -0500
Date: Thu, 11 Jun 2009 10:55:38 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FOR GAMERS ONLY (hence not relevant to this NG)
References: <e29d222d-5bd4-40c4-8751-ff82de14d4e4@y33g2000prg.googlegroups.com>
In-Reply-To: <e29d222d-5bd4-40c4-8751-ff82de14d4e4@y33g2000prg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <-7qdnUvyuP04ya_XnZ2dnUVZ8nudnZ2d@pipex.net>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 85.210.102.176
X-Trace: sv3-sAnXUCzQGjKncpVcV8r0NexvPRu0DslV2HhGiTqk/NqLZBD9Rsp/
KNRjxYL6SEso2xZ+EfpoQpCjaWP!A1AhHERUWY/
OCixusKArfFvMjaxzosjnrGlDl3e+wJb7mSQ5BE02ownlSu2XR23kQLwx8nzz6HJp!
efhMKKgScqVB7GmlzzWEKwr8+ic=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2816
```

```
bruteman wrote:
> -------------------------------------------------
>
> http://gpoi.mybrute.com/
>
> -------------------------------------------------
>
> Let's get it on!
>
> Insert a name to create your own Brute.
>
> You will be able to fight against other Brutes in the arena.
>
> Gain experience and fight tough in the ranking to become...
> THE BRUTE!
=================================
There we go again !
This NG is increasingly contaminated with totally off-subject messages.

Frank   GM0CSZ / KN6WH
```

From 8283951316726002581
X-Google-Thread: 241b302a50,28b81590dafe1e82
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!news-out.octanews.net!indigo.octanews.net!news-2.mpls.iphouse.net.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FOR GAMERS ONLY (hence not relevant to this NG)
From: Bert Hyman <bert@iphouse.com>
References: <e29d222d-5bd4-40c4-8751-ff82de14d4e4@y33g2000prg.googlegroups.com>
<-7qdnUvyuP04ya_XnZ2dnUVZ8nudnZ2d@pipex.net>
Organization: Not that you'd notice
Message-ID: <Xns9C285E492E316VeebleFetzer@216.250.184.7>
User-Agent: Xnews/2006.08.24
Date: 12 Jun 2009 14:17:31 GMT
Lines: 12
NNTP-Posting-Date: 12 Jun 2009 09:17:31 CDT
NNTP-Posting-Host: 08338188.newsreader.iphouse.net
X-Trace:
DXC=9Gjoo\=7V:eXQj>8CA<DI`Vn\Tj8`^BbkeHS>e[L>83`<9bO`XBYJNmc230oU7d71aX7@2h;nGb4mNf^I_6B@KYd
X-Complaints-To: abuse@iphouse.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:2817

In news:-7qdnUvyuP04ya_XnZ2dnUVZ8nudnZ2d@pipex.net Highland Ham
<rfburns@allbands.net> wrote:

> There we go again !
> This NG is increasingly contaminated with totally off-subject
> messages.

I wonder why people feel compelled to repost an offensive article in its entirety just to complain about being offended.

--
Bert Hyman   St. Paul, MN bert@iphouse.com

From -1641401947703866503
X-Google-Thread: 241b302a50,200e892aa95da980
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!STARBAND.NET-a2kHrUvQQWlmc!not-for-mail
From: You <you@shadow.orgs>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Does anyone know anything about Voice above or over ip provider?
Organization: Shadow.orgs

References: <547a2f1e-d012-44e8-b887-c10e39f5538d@h23g2000vbc.googlegroups.com>
<v28Xl.30871$VL5.12288@newsfe22.iad> <89d34c7d-1937-4e92-
a08b-08300cdf4cba@i6g2000yqj.googlegroups.com>
User-Agent: MT-NewsWatcher/3.5.3b2 (PPC Mac OS X)
Date: Fri, 12 Jun 2009 11:45:53 -0800
Message-ID: <you-5229E1.11455012062009@unknown.usenetserver.com>
X-Complaints-To: abuse@usenetserver.com
Lines: 11
X-Trace: 26a004a32b01c31eb3df320833
Xref: g2news2.google.com rec.radio.amateur.homebrew:2818

In article
<89d34c7d-1937-4e92-a08b-08300cdf4cba@i6g2000yqj.googlegroups.com>,
 raypsi <RBorowiak@gmail.com> wrote:

> another thing voip phone service can't be demodulated with anything
> but a voip box. the modulation techniques they are using can't
> demodulated except with a voip box. And when they are in RF form the
> cable modem has to demodulate the cable signals.

BS... there are plenty of Computer Apps that can demod VoIP streams,
and None of those are VoIP Boxes......

From -4564780570799225556
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe11.iad.POSTED!7564ea0f!not-for-mail
From: "Dr. Barry L. Ornitz" <BLOrnitz48@charter.net>
Newsgroups: rec.radio.amateur.homebrew
Followup-To: rec.radio.amateur.homebrew
References: <e29d222d-5bd4-40c4-8751-ff82de14d4e4@y33g2000prg.googlegroups.com>
<-7qdnUvyuP04ya_XnZ2dnUVZ8nudnZ2d@pipex.net>
In-Reply-To: <-7qdnUvyuP04ya_XnZ2dnUVZ8nudnZ2d@pipex.net>
Subject: Re: FOR GAMERS ONLY (hence not relevant to this NG)
Lines: 36
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6002.18005
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6002.18005
X-RFC2646: Format=Flowed; Response
Message-ID: <ZVBYl.8$jI6.4@newsfe11.iad>
NNTP-Posting-Host: jnibogphckphemgkkgknfdakiclijcld
X-Complaints-To: abuse@charter.net
X-Trace:
dbdekibldngfpmaekenaajobffgmphfmijglijadegedmimbjnibogphckphemgkfllejjhdijjjcbpjec
gafafkmefiacnlcbohheckijlafegjekaoihokebddfeenofbanfllipfpcbfd
NNTP-Posting-Date: Fri, 12 Jun 2009 23:55:37 UTC
Date: Fri, 12 Jun 2009 19:55:34 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2819

"Highland Ham" <rfburns@allbands.net> wrote in message

news:-7qdnUvyuP04ya_XnZ2dnUVZ8nudnZ2d@pipex.net...
> This NG is increasingly contaminated with totally off-subject messages.
>
> Frank   GM0CSZ / KN6WH

Why complain here (and even quote the offending message again)? The spammer does not even read the newsgroups he posts to, so your complaint just wastes bandwidth. Why not learn to read the message headers? Then you can complain to system administrators who just might shut the spammer down. I always include Google, but I have yet to ever see them do anything.

In this particular case, I sent a complaint to:

Re: brutemann@gmail.com (Apparent email address where the spammer wants return mail)
    To: abuse@google.com
        groups-abuse@google.com

Re: [119.94.37.8] (IP address where message originated)
    To: abuse@pldt.com
         postmaster@pldt.com.ph
         customercare@pldt.com
         abuse@uu.net
         postmaster@pldt.com
         abuse-mail@verizonbusiness.com
         bizsol@pldt.com.ph
         abuse@pldt.net

Re: http://gpoi.mybrute.com/ (Website advertised in spam)
    To: postmaster@motion-twin.com
         noc@multi-visp.com
         geoffroy@secr.fr

From 4282317155527836616
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!y9g2000yqg.googlegroups.com!not-for-mail
From: stratus46@yahoo.com
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Date: Fri, 12 Jun 2009 17:53:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 34
Message-ID: <24d3eea0-2907-4cb1-a26e-2135cfe48e4b@y9g2000yqg.googlegroups.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
     <1350ff6e-c913-46c0-958d-6d2e2daab934@q16g2000yqg.googlegroups.com>

```
     <0001HW.C647E2D803F904A1B01AD9AF@news.sf.sbcglobal.net>
NNTP-Posting-Host: 68.225.243.210
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1244854429 5281 127.0.0.1 (13 Jun 2009 00:53:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 13 Jun 2009 00:53:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y9g2000yqg.googlegroups.com; posting-host=68.225.243.210;
     posting-account=JX7V1wkAAAAeax67P9giUWdoKufQ8keT
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.63 (Windows NT 5.1; U; en) Presto/
2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:12787
rec.radio.amateur.homebrew:2820 alt.tv.tech.hdtv:18771
```

On May 31, 7:31=A0am, Usual Suspect <re...@thegroup.net> wrote:

> > I've had one on the roof since Dec 2004 in 90274 35 miles from Mt
> > Wilson split 4 ways with no preamps. It's a fine little UHF
> > antenna
> > and while they say it can do upper VHF, I have serious doubts.
> > I'll
> > find out for certain in 2 weeks.
> > G=B2
>
> Thanks, G, for answering the question *asked*. I appreciate it. :-)
>
> The issue re. rights may be interesting to some, but was not asked.
> (Man, the
> signal-to-noise ration on USENET is *so* low...)
>
> If you think of it, please post a follow-up in 2 weeks.
>
> Thanks.
> --
> Al, the usual

Well, it's the 'big day' and while we have an excellent antenna at work, I didn't think the little 'SquareShooter' would be adequate for VHF-hi (channels 7-13) DTV. I brought home the spectrum analyzer to check out the signal before I tried a re-scan. So far 2 of the 4 VHF-hi have completed the change over. KABC-7 and KCAL-9 are in their new homes. The spectrum analyzer showed better than 20dB carrier to noise which should be OK. I then connected to the computer tuner and it works very well. I must say I am totally surprised about that as the analog stations 7-13 were SO weak as to not even SEE a locked umage from analog. As it is, it appears to be as good as the UHF DTV. If Fox 11 and KCOP-13 are as good as 7 and 9 I won't need to change a thing.

G=B2

```
From -4789012126731042535
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe05.iad.POSTED!7564ea0f!not-for-mail
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net> <1350ff6e-
c913-46c0-958d-6d2e2daab934@q16g2000yqg.googlegroups.com>
<0001HW.C647E2D803F904A1B01AD9AF@news.sf.sbcglobal.net> <24d3eea0-2907-4cb1-
a26e-2135cfe48e4b@y9g2000yqg.googlegroups.com>
Subject: Re: "Panel" style UHF DTV antenna?
Lines: 26
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <J4IYl.7361$mX2.4180@newsfe05.iad>
NNTP-Posting-Host: 72.199.59.151
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe05.iad 1244876201 72.199.59.151 (Sat, 13 Jun 2009 06:56:41 UTC)
NNTP-Posting-Date: Sat, 13 Jun 2009 06:56:41 UTC
Organization: Cox
Date: Fri, 12 Jun 2009 23:56:40 -0700
Xref: g2news2.google.com rec.radio.amateur.antenna:12791
rec.radio.amateur.homebrew:2821 alt.tv.tech.hdtv:18795
```

<stratus46@yahoo.com> wrote in message
news:24d3eea0-2907-4cb1-a26e-2135cfe48e4b@y9g2000yqg.googlegroups.com...

So far 2 of the 4 VHF-hi have completed the change over. KABC-7 and KCAL-9 are in their new homes. The spectrum analyzer showed better than 20dB carrier to noise which should be OK. I then connected to the computer tuner and it works very well. I must say I am totally surprised about that as the analog stations 7-13 were SO weak as to not even SEE a locked umage from analog. As it is, it appears to be as good as the UHF DTV. If Fox 11 and KCOP-13 are as good as 7 and 9 I won't need to change a thing.

=======================================

I got KABC but, so far, no KCAL. I'm in San Diego, so my situation will be variable, depending on the ducting. I think I've lost KCBS, since they moved to KCAL's old channel, 43, which has a local LPTV station sitting on it. I still have some more antenna tricks to try. KCAL on 43 was always very "iffy."

I've also lost KCET; There's a Mexican station (full power) on 28. KOCE generally good.

```
From -6688251451059035794
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!f19g2000yqh.googlegroups.com!not-for-
mail
From: stratus46@yahoo.com
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Date: Sat, 13 Jun 2009 01:08:24 -0700 (PDT)
Organization: http://groups.google.com
Lines: 50
Message-ID: <0bbb2bf3-3152-484b-8f6a-3ab5cba5e612@f19g2000yqh.googlegroups.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
     <1350ff6e-c913-46c0-958d-6d2e2daab934@q16g2000yqg.googlegroups.com>
     <0001HW.C647E2D803F904A1B01AD9AF@news.sf.sbcglobal.net> <24d3eea0-2907-4cb1-
a26e-2135cfe48e4b@y9g2000yqg.googlegroups.com>
     <J4IYl.7361$mX2.4180@newsfe05.iad>
NNTP-Posting-Host: 68.225.243.210
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1244880507 3643 127.0.0.1 (13 Jun 2009 08:08:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 13 Jun 2009 08:08:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f19g2000yqh.googlegroups.com; posting-host=68.225.243.210;
     posting-account=JX7V1wkAAAAeax67P9giUWdoKufQ8keT
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.63 (Windows NT 5.1; U; en) Presto/
2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:12792
rec.radio.amateur.homebrew:2822 alt.tv.tech.hdtv:18796

On Jun 12, 11:56=A0pm, "Sal M. Onella" <salmone...@food.poisoning.org>
wrote:
 > <stratu...@yahoo.com> wrote in message
 >
 > news:24d3eea0-2907-4cb1-
a26e-2135cfe48e4b@y9g2000yqg.googlegroups.com...
 >
 > So far 2 of the 4 VHF-
 > hi have completed the change over. KABC-7 and KCAL-9 are in their
new
 > homes. The spectrum analyzer showed better than 20dB carrier to
noise
 > which should be OK. I then connected to the computer tuner and it
 > works very well. I must say I am totally surprised about that as
the
 > analog stations 7-13 were SO weak as to not even SEE a locked umage
 > from analog. As it is, it appears to be as good as the UHF DTV. If
Fox
 > 11 and KCOP-13 are as good as 7 and 9 I won't need to change a
thing.
 >
 > =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
 >
 > I got KABC but, so far, no KCAL. =A0I'm in San Diego, =A0so my
situation will be
 > variable, depending on the ducting. =A0I think I've lost KCBS, since
they
 > moved to KCAL's old channel, 43, which has a local LPTV station
sitting on
 > it. =A0I still have some more antenna tricks to try. =A0KCAL on 43 was
always
 > very "iffy."
 >
 > I've also lost KCET; There's a Mexican station (full power) on 28.
=A0KOCE
 > generally good.

My optimism was premature. KABC is better than I expected and KCAL was
marginal. KTTV-11 Fox is way down in the mud and KCOP-13 is worse than
11, neither of which is usable at all. Keep in mind this is that
little SquareShooter (without the preamp) which is good for UHF isn't
going to make it for VHF hi. Oh well, some more cable along with a UHF/
VHF splitter (combiner) and that big Winegard in the garage will
hopefully cure it.

At 12:30am 6-13-09 KWHY-22 analog was still on the air but all that's
left are a few low power analogs - as they told us.

G=B2



From -7565346892191472659
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!b9g2000yqm.googlegroups.com!not-for-
mail
From: stratus46@yahoo.com
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Date: Sat, 13 Jun 2009 01:39:01 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <913746fa-b991-474a-b3b1-31745887fcbb@b9g2000yqm.googlegroups.com>
```

```
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
     <1350ff6e-c913-46c0-958d-6d2e2daab934@q16g2000yqg.googlegroups.com>
     <0001HW.C647E2D803F904A1B01AD9AF@news.sf.sbcglobal.net> <24d3eea0-2907-4cb1-
a26e-2135cfe48e4b@y9g2000yqg.googlegroups.com>
     <J4IYl.7361$mX2.4180@newsfe05.iad>
<0bbb2bf3-3152-484b-8f6a-3ab5cba5e612@f19g2000yqh.googlegroups.com>
NNTP-Posting-Host: 68.225.243.210
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1244882341 27047 127.0.0.1 (13 Jun 2009 08:39:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 13 Jun 2009 08:39:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b9g2000yqm.googlegroups.com; posting-host=68.225.243.210;
     posting-account=JX7V1wkAAAAeax67P9giUWdoKufQ8keT
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.63 (Windows NT 5.1; U; en) Presto/
2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:12793
rec.radio.amateur.homebrew:2823 alt.tv.tech.hdtv:18799
```

On Jun 13, 1:08=A0am, stratu...@yahoo.com wrote:
 >
 > At 12:30am 6-13-09 KWHY-22 analog was still on the air but all
that's
 > left are a few low power analogs - as they told us.
 >
 > G=B2

Dummy me, I just remembered KWHY is one of the LA nightlight stations
that will stay on another month with an infomercial on how to get your
TV converted.

G=B2

```
From -1677370440833759595
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!
newsfeed2.telusplanet.net!newsfeed.telus.net!news-in-02.newsfeed.easynews.com!
easynews!core-easynews-01!easynews.com!en-nntp-02.dc1.easynews.com.POSTED!not-for-
mail
From: Richard Clark <kb7qhc@comcast.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Message-ID: <nmm7355i2i2qd4bp8mnri4m2gl60pqaef7@4ax.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>  <1350ff6e-
c913-46c0-958d-6d2e2daab934@q16g2000yqg.googlegroups.com>
<0001HW.C647E2D803F904A1B01AD9AF@news.sf.sbcglobal.net> <24d3eea0-2907-4cb1-
```

```
a26e-2135cfe48e4b@y9g2000yqg.googlegroups.com>  <J4IYl.7361$mX2.4180@newsfe05.iad>
<0bbb2bf3-3152-484b-8f6a-3ab5cba5e612@f19g2000yqh.googlegroups.com>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 26
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Sat, 13 Jun 2009 10:10:24 -0700
Xref: g2news2.google.com rec.radio.amateur.antenna:12797
rec.radio.amateur.homebrew:2824 alt.tv.tech.hdtv:18812

On Sat, 13 Jun 2009 01:08:24 -0700 (PDT), stratus46@yahoo.com wrote:

>Oh well, some more cable along with a UHF/
>VHF splitter (combiner) and that big Winegard in the garage will
>hopefully cure it.

By this little snippet of what was intended as an aside may, in fact,
be your solution for VHF.  Given your predicament of "code" (arbitrary
or otherwise), you can put the cable to work.

The solution is called a "Franklin Antenna."  It would be disguised as
an antenna cable (or telephone cable, or power line, or other
innocuous wire) that trails up (to something innocuous), but never
connects (who is going to look?  and if they did, it could always be a
dummy connection).

A Franklin antenna is a stacked, gain antenna that is very colinear
(hence the cable motif).  These are most often described on the Web
for home wi-fi or bluetooth applications, but with scaling you can
bring them back down into the TV VHF band.  A quick search gives:
http://www.para.org.ph/membersarticles/DU1ANV/
Development%20of%20Collinear%20Antennas_Matching%20and%20Feeding%20Techniques%20-
%2021.pdf
which on page 11 gives a pictorial representation (I can't say I vouch
for the entire paper, but it is representative of the topic).

73's
Richard Clark, KB7QHC


From 7949336127246786122
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6,start
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
```

NNTP-Posting-Date: Sat, 13 Jun 2009 13:03:41 -0500
Reply-To: "Leland C. Scott" <kc8ldo@arrl.net>
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Subject: ExpressPCB to Gerber file converter?
Date: Sat, 13 Jun 2009 14:03:39 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
Lines: 18
X-Usenet-Provider: http://www.giganews.com
X-Trace:
sv3-7CrO7op2N6c5YXoUVkzmuuq0HxElVQ56n7YCdykWMMZbbJG7Oq8WfIv+IBGKPARN5h0T24dp4mSyy4
k!8krYuXOF9T33zdnBN+j2my2llE4+nLEqO8soe0H5EfUa+tgVLdqaAbbPqC4pLuQ6s3gg1bnsosc=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1504
Xref: g2news2.google.com rec.radio.amateur.homebrew:2825 sci.electronics.cad:2719

Does anybody have or know where to get a utility to convert from ExpressPCB
file format to a standard Gerber file? If not any info on the file format
itself?

--
Regards;

Leland C. Scott
KC8LDO

"The most reliable components are
the ones you leave out."

By Gordon Bell, father of the
minicomputer at DEC.

From -7920186569249412439
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-
mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad

References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
Subject: Re: ExpressPCB to Gerber file converter?
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <INSYl.740928$yE1.253509@attbi_s21>
NNTP-Posting-Host: 173.20.55.62
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1244920040 173.20.55.62 (Sat, 13 Jun 2009 19:07:20 GMT)
NNTP-Posting-Date: Sat, 13 Jun 2009 19:07:20 GMT
Organization: AT&T ASP.att.net
Date: Sat, 13 Jun 2009 19:07:20 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2826 sci.electronics.cad:2722

"Leland C. Scott" <kc8ldo@arrl.net> wrote in message
news:JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com...
> Does anybody have or know where to get a utility to convert from
> ExpressPCB file format to a standard Gerber file? If not any info on the
> file format itself?
>
Yup. You can pay Express PCB for the file. (No utility) $75 the last time I
bought one.

W4ZCB

From 4384614069898530796
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 13 Jun 2009 14:36:46 -0500
Reply-To: "Leland C. Scott" <kc8ldo@arrl.net>
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
<INSYl.740928$yE1.253509@attbi_s21>
Subject: Re: ExpressPCB to Gerber file converter?
Date: Sat, 13 Jun 2009 15:36:40 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com>
Lines: 38
X-Usenet-Provider: http://www.giganews.com

X-Trace: sv3-
V5zo8VHoGuluhM4GodpXjFiiC+fh73eP2EzpwHtALOTb7drGsO+mH71pN0VA77VaSFGe4aIzzoyDS29!
UhdH0XL5QpqZPyDLbYhIB6E/R4HSoWTq7dGE7jRwXvFnHUCUaVMm6akEbe8cCYVqxYwvH+ZL7LA=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2518
Xref: g2news2.google.com rec.radio.amateur.homebrew:2827 sci.electronics.cad:2723

"Harold E. Johnson" <W4ZCB@mchsi.com> wrote in message
news:INSYl.740928$yE1.253509@attbi_s21...
>
> "Leland C. Scott" <kc8ldo@arrl.net> wrote in message
> news:JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com...
>> Does anybody have or know where to get a utility to convert from
>> ExpressPCB file format to a standard Gerber file? If not any info on the
>> file format itself?
>>
> Yup. You can pay Express PCB for the file. (No utility) $75 the last time
> I bought one.

That's not going to happen. I know I can get some reverse engineering software that will import the layout as a graphic then trace over it using the PCB layout software to generate standard Gerber files. I'm looking for something easy and I'm not paying them $75 a pop for each small board to convert.

I also found out there maybe some utilities out, still looking, there that can convert from an exported PDF, or EPS file, to a Gerber format too. Getting a PDF printer driver is easy. Use the driver when printing out a copy of the board layout.

--
Regards;

Leland C. Scott
KC8LDO

"Brilliance is typically the act of an
individual, but incredible stupidity
can usually be traced to an
organization."

Jon Bentley

From 4892236709171396730

X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed3.bellsouth.net!news.bellsouth.net!border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 13 Jun 2009 19:28:57 -0500
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Date: Sat, 13 Jun 2009 17:28:56 -0700
Message-ID: <m4f835dfmegcbqru1r00j56lqfprlvml7s@4ax.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net> <1350ff6e-c913-46c0-958d-6d2e2daab934@q16g2000yqg.googlegroups.com> <0001HW.C647E2D803F904A1B01AD9AF@news.sf.sbcglobal.net> <24d3eea0-2907-4cb1-a26e-2135cfe48e4b@y9g2000yqg.googlegroups.com> <J4IYl.7361$mX2.4180@newsfe05.iad> <0bbb2bf3-3152-484b-8f6a-3ab5cba5e612@f19g2000yqh.googlegroups.com> <nmm7355i2i2qd4bp8mnri4m2gl60pqaef7@4ax.com>
X-Newsreader: Forte Agent 5.00/32.1171 trialware
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 71
X-Trace: sv3-NYqrSVqqG3Wa/ysc93oVWf2XAWEJMQ8+Uim/7XaTI682mONWCg/C3p9jRYWr/sGYgeN+dvhgbO7NpB7!+o/Dz1tduSCVAqpGVn8ztNeCp4/1K08RK3i9C4epp/KG6OxDj3bmImKkIhUuyErrFi4oMsc0KpQQ!7HiLjg==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.antenna:12801 rec.radio.amateur.homebrew:2828 alt.tv.tech.hdtv:18825

On Sat, 13 Jun 2009 10:10:24 -0700, Richard Clark <kb7qhc@comcast.net> wrote:

(...)
>The solution is called a "Franklin Antenna." It would be disguised as
>an antenna cable (or telephone cable, or power line, or other
>innocuous wire) that trails up (to something innocuous), but never
>connects (who is going to look? and if they did, it could always be a
>dummy connection).
>
>A Franklin antenna is a stacked, gain antenna that is very colinear
>(hence the cable motif). These are most often described on the Web
>for home wi-fi or bluetooth applications, but with scaling you can
>bring them back down into the TV VHF band. A quick search gives:
>http://www.para.org.ph/membersarticles/DU1ANV/

Development%20of%20Collinear%20Antennas_Matching%20and%20Feeding%20Techniques%20-%2021.pdf
>which on page 11 gives a pictorial representation (I can't say I vouch
>for the entire paper, but it is representative of the topic).
>
>73's
>Richard Clark, KB7QHC

The only problem is that a Franklin antenna is usually vertically polarized. TV is horizontal.... well some station have a vertically polarized component, but it's mostly horizontal.
<http://www.tvtechnology.com/article/68820>
The Franklin antenna is not very wide band, covering perhaps a few UHF channels, but certainly not the entire UHF TV band.

Topic drift: Franklin or AMOS antennas for Wi-Fi. NEC2 deck is under the "main" page and is easily scaled for your favorite TV channel.
<http://802.11junk.com/jeffl/antennas/AMOS-7/index.html>
<http://802.11junk.com/jeffl/antennas/AMOS-5/index.html>

I don't have photos of the "disguise" TV antenna I installed on top of a 175ft redwood tree. It was vertically polarized, crammed into a PVC pipe, and filled with urethane foam (fence post compound). 20dB gain wide band GaAsFET amp at the base. It was painted brown, to match the tree trunk.

Performance was a disaster. There wasn't enough gain so most stations were noisy. With an omnidirectinal pattern, it did a superior job of converting reflections from the surrounding mountains, into obnoxious and irritating ghosts. 4 tries, and no luck.

The plan was to install a pully near the top of the tree, and use a rope to raise and lower verious experiments. Unfortunately, I used a rope that did not do well in the sun. After about a year of trial and error, the rope crumbled. The pully is still in the tree and can probably be used again.

As for other disguise antennas, I've done some tinkering characterizing various road signs for operation as antennas. The aluminum sign is a tolerable radiator, but the galvanized steel support is a problem. I've also seen all manner of urethane sculptures, designed to resemble a tree, cactus, building materials, lamps, boulders, etc, each with an antenna behind or inside. Also fiberglass panels for hiding antennas in the sidewalk.

I've also crammed wi-fi repeaters inside a plastic owl. I've disguised a wi-fi antenna by making it look like a giant bird nest. If the neighbors asked, I told the owner to tell them it was a Roc nest.
<http://en.wikipedia.org/wiki/Roc_(mythology)>
For HF, I've loaded into the rain gutters, installed chicken wire under the carpeting for a ground, and strung wires between telephone poles.

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From -5365760780396O1058
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 13 Jun 2009 21:40:07 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: ExpressPCB to Gerber file converter?
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
     <INSYl.740928$yE1.253509@attbi_s21>
     <9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <h-KdncQ1TbGa_qnXnZ2dnUVZ_ohi4p2d@web-ster.com>
Date: Sat, 13 Jun 2009 21:40:07 -0500
Lines: 34
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-bcWD7jcjSCDHSDmeg+gjR5q8x+Z6r1S/jkeNHWxS4BbNrVh29r6Z6gSYz/
Dn0xpOvOsJHsS8tOEJtkF!
VxeaEXWyOaEzF6P21EuyFB7GKY4IB+nVPQurK6jX2+L0T0ymHyu4xbA4NPVmDUPhM1pRWdfErYI1!
8eUPgAseoe7xr60=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2659
Xref: g2news2.google.com rec.radio.amateur.homebrew:2829 sci.electronics.cad:2725

On Sat, 13 Jun 2009 15:36:40 -0400, Leland C. Scott wrote:

> "Harold E. Johnson" <W4ZCB@mchsi.com> wrote in message
> news:INSYl.740928$yE1.253509@attbi_s21...
>>
>> "Leland C. Scott" <kc8ldo@arrl.net> wrote in message
>> news:JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com...
>>> Does anybody have or know where to get a utility to convert from
>>> ExpressPCB file format to a standard Gerber file? If not any info on
>>> the file format itself?
>>>
>> Yup. You can pay Express PCB for the file. (No utility) $75 the last

>> time I bought one.
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> That's not going to happen. I know I can get some reverse engineering software that will import the layout as a graphic then trace over it using the PCB layout software to generate standard Gerber files. I'm looking for something easy and I'm not paying them $75 a pop for each small board to convert.
>
> I also found out there maybe some utilities out, still looking, there that can convert from an exported PDF, or EPS file, to a Gerber format too. Getting a PDF printer driver is easy. Use the driver when printing out a copy of the board layout.

Reverse the "Express" and the "PCB" and you'll find a really nice little company that will take Gerber files and make boards for you. Eagle PCB is free for small two-layer boards, includes schematic capture, and works well once you get your brain wrapped around their way of doing things.

http://www.pcbexpress.com/

--
http://www.wescottdesign.com

```
From -3679073145150949625
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!i6g2000yqj.googlegroups.com!not-for-
mail
From: stratus46@yahoo.com
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Date: Sat, 13 Jun 2009 22:55:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 43
Message-ID: <dc8ac04e-cddb-4911-913c-37900132cf19@i6g2000yqj.googlegroups.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
     <1350ff6e-c913-46c0-958d-6d2e2daab934@q16g2000yqg.googlegroups.com>
     <0001HW.C647E2D803F904A1B01AD9AF@news.sf.sbcglobal.net> <24d3eea0-2907-4cb1-
a26e-2135cfe48e4b@y9g2000yqg.googlegroups.com>
     <J4IYl.7361$mX2.4180@newsfe05.iad>
<0bbb2bf3-3152-484b-8f6a-3ab5cba5e612@f19g2000yqh.googlegroups.com>
     <nmm7355i2i2qd4bp8mnri4m2gl60pqaef7@4ax.com>
NNTP-Posting-Host: 68.225.243.210
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1244958946 5643 127.0.0.1 (14 Jun 2009 05:55:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 14 Jun 2009 05:55:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
```

```
Injection-Info: i6g2000yqj.googlegroups.com; posting-host=68.225.243.210;
     posting-account=JX7V1wkAAAAeax67P9giUWdoKufQ8keT
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.63 (Windows NT 5.1; U; en) Presto/
2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:12806
rec.radio.amateur.homebrew:2830 alt.tv.tech.hdtv:18838

On Jun 13, 10:10=A0am, Richard Clark <kb7...@comcast.net> wrote:
 > On Sat, 13 Jun 2009 01:08:24 -0700 (PDT), stratu...@yahoo.com
wrote:
 > >Oh well, some more cable along with a UHF/
 > >VHF splitter (combiner) and that big Winegard in the garage will
 > >hopefully cure it.
 >
 > By this little snippet of what was intended as an aside may, in
fact,
 > be your solution for VHF. =A0Given your predicament of
"code" (arbitrary
 > or otherwise), you can put the cable to work.
 >
 > The solution is called a "Franklin Antenna." =A0It would be disguised
as
 > an antenna cable (or telephone cable, or power line, or other
 > innocuous wire) that trails up (to something innocuous), but never
 > connects (who is going to look? =A0and if they did, it could always
be a
 > dummy connection).
 >
 > A Franklin antenna is a stacked, gain antenna that is very colinear
 > (hence the cable motif). =A0These are most often described on the Web
 > for home wi-fi or bluetooth applications, but with scaling you can
 > bring them back down into the TV VHF band. =A0A quick search
gives:http://www.para.org.ph/membersarticles/DU1ANV/Development%20of
%20Coll...
 > which on page 11 gives a pictorial representation (I can't say I
vouch
 > for the entire paper, but it is representative of the topic).
 >
 > 73's
 > Richard Clark, KB7QHC

I hung the spectrum analyzer on the Winegard all channel antenna in
the rafters of the garage. The VHF channels are strong and free of
response 'bumps' (meaning no serious multipath) and the UHF may be
better than the squareshooter on the roof. Tomorrow I shoot a hole in
the stucco wall to get the new RG-6 coax (crazy guy at Torrance
Electronics sold me 100 ft for $9) pulled in to the splitter to feed
the computers and STB. It looks like it will be good.

G=B2
```

```
From -690370995386111480
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y10g2000prc.googlegroups.com!not-for-
mail
From: Leon <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Subject: Re: ExpressPCB to Gerber file converter?
Date: Sun, 14 Jun 2009 05:30:19 -0700 (PDT)
Organization: http://groups.google.com
Lines: 43
Message-ID: <a3dcb9c9-811e-486a-8c74-d0791c8c4e0f@y10g2000prc.googlegroups.com>
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
     <INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com>
NNTP-Posting-Host: 81.159.176.69
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1244982620 14321 127.0.0.1 (14 Jun 2009 12:30:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 14 Jun 2009 12:30:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y10g2000prc.googlegroups.com; posting-host=81.159.176.69;
     posting-account=QWZLZQkAAADFmB_RJlmk3T-GvINRaZti
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.0.11)
     Gecko/2009060215 Firefox/3.0.11,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2831 sci.electronics.cad:2730

On 13 June, 20:36, "Leland C. Scott" <kc8...@arrl.net> wrote:
> "Harold E. Johnson" <W4...@mchsi.com> wrote in
messagenews:INSYl.740928$yE1.253509@attbi_s21...
>
>
>
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> copy of the board layout.
>
> --
> Regards;
>
> Leland C. Scott
> KC8LDO
>
> "Brilliance is typically the act of an
> individual, but incredible stupidity
> can usually be traced to an
> organization."
>
> Jon Bentley

Use Advanced Circuits. Their PCB Artist software is much better than
Express PCB's (it's actually a special version of Easy-PC) and you get
the Gerbers free with a second order for the same board, IIRC.

Leon

```
From -4775674665030737263
X-Google-Thread: a50ba34711,45055c9b10fdb88a
X-Google-Attributes: gida50ba34711,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g15g2000pra.googlegroups.com!not-for-
mail
From: stan <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv
Subject: Re: "Panel" style UHF DTV antenna?
Date: Sun, 14 Jun 2009 07:32:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 20
Message-ID: <a65b8b25-51d6-4b31-b8e0-bd84c78417f7@g15g2000pra.googlegroups.com>
References: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
     <eedf031f-c023-4a15-abea-8a3b22751339@r16g2000vbn.googlegroups.com>
     <Xns9C1CABF8C29B9greederxprtnet@194.177.98.144>
<TfJUl.67232$ho7.5840@newsfe10.iad>
     <Xns9C1CE7992BD5Dgreederxprtnet@194.177.98.144>
<1fPUl.27886$c45.4537@nlpi065.nbdc.sbc.com>
     <apd825dus5d4b11qnds099cop5270tkku8@4ax.com>
<c8740$4a2f0a87$18d6b40c$28826@KNOLOGY.NET>
NNTP-Posting-Host: 142.162.128.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1244989947 4657 127.0.0.1 (14 Jun 2009 14:32:27 GMT)
X-Complaints-To: groups-abuse@google.com
```

```
NNTP-Posting-Date: Sun, 14 Jun 2009 14:32:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g15g2000pra.googlegroups.com; posting-host=142.162.128.246;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:12808
rec.radio.amateur.homebrew:2832 alt.tv.tech.hdtv:18857

On Jun 9, 11:21=A0pm, "amdx" <a...@knology.net> wrote:
> >>A mismatch can cause ghosting in an analog TV.
> >>What does ghosting do to a digital TV signal?
>
> =A0 Just as a point of interest (to me at least) I grew up within 3 block=
s of
> an airport, it
> was a several times a day occurance to have the picture flutter as an
> airplane flew by.
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =
=A0 =A0 =A0 =A0 =A0 =A0 =A0Mike

It was identifying the reflection of radio signals from a flying
aircraft that led to the development and use of radar.
Radar was major factor in the successful defence of Britain (Britain
1940) against German bombing (The Blitz) early in WWII (1939-1945).
Although it was initially very crude, (It was called Radio-location or
RDF, Radio Direction Finding) at the time.
Unfortunately the first war time US use of radar was misinterpreted
when the Japanese attacked Pearl Harbour  in Dec 1941!


From -7829549703406223l0
X-Google-Thread: 241b302a50,b86ecd384e8a8d64,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!newsfeed2.telusplanet.net!
newsfeed.telus.net!edtnps82.POSTED!7564ea0f!not-for-mail
From: Thomas M. Alldread <tmall@telus.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: QEX DwnLoad - Dual 200 MHz RF Generator Article
Message-ID: <b3oa351b3u4vim648d9iov16ndj2u62095@4ax.com>
X-Newsreader: Forte Agent 1.8/32.548
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 16
Date: Sun, 14 Jun 2009 20:44:58 GMT
NNTP-Posting-Host: 99.199.163.174
X-Trace: edtnps82 1245012298 99.199.163.174 (Sun, 14 Jun 2009 14:44:58 MDT)
NNTP-Posting-Date: Sun, 14 Jun 2009 14:44:58 MDT
```

```
Xref: g2news2.google.com rec.radio.amateur.homebrew:2833
```

Greetings:

The ARRL, publisher of QEX Magazine, has granted me permission to
post the Acrobat Reader (pdf) files for the recently published
NimbleSig III DDS RF Generator article series. Anyone who so wishes
may download the article by taking the "QEX Article Downloads" link at
the top of the table of contents on my web page at the following URL:

http://www3.telus.net/ta/NimbleSig%20III/

--
Best Wishes,
Tom Alldread, VA7TA
tmall@telus.net

```
From 8714614456740775540
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 14 Jun 2009 18:39:11 -0500
Reply-To: "Leland C. Scott" <kc8ldo@arrl.net>
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
References: <JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com>
<INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com> <a3dcb9c9-811e-486a-8c74-
d0791c8c4e0f@y10g2000prc.googlegroups.com>
Subject: Re: ExpressPCB to Gerber file converter?
Date: Sun, 14 Jun 2009 19:39:07 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <QbudnQJiupeCF6jXnZ2dnUVZ_jCdnZ2d@giganews.com>
Lines: 69
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-U7ZqSeTAZAiEb7makwi/
s782FhE1wRkx3n1CFwFBx3kr0wylXcAkpTXOiUomyUk5j2F2kCcnNiI3d34!v/
UXAAwfhGVxzF6eXGqAHNOmXVKPNcBp7WJTMiX3sJtBdsbiCpnD934YdCe4Np8tgh5590o=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

```
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 3356
Xref: g2news2.google.com rec.radio.amateur.homebrew:2834 sci.electronics.cad:2740


"Leon" <leon355@btinternet.com> wrote in message
news:a3dcb9c9-811e-486a-8c74-d0791c8c4e0f@y10g2000prc.googlegroups.com...
> On 13 June, 20:36, "Leland C. Scott" <kc8...@arrl.net> wrote:
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>>
>>
>>
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```

> Express PCB's (it's actually a special version of Easy-PC) and you get
> the Gerbers free with a second order for the same board, IIRC.
>
> Leon

Thanks for the advise.

--
Regards;

Leland C. Scott
KC8LDO

"The most reliable components are
the ones you leave out."

By Gordon Bell, father of the
minicomputer at DEC.

From -7374851363843114333
X-Google-Thread: ba0e5b57c9,9c0767af7f94dbd6
X-Google-Attributes: gidba0e5b57c9,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 14 Jun 2009 18:41:55 -0500
Reply-To: "Leland C. Scott" <kc8ldo@arrl.net>
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
References:
<JLWdnYFglb9gdK7XnZ2dnUVZ_sSdnZ2d@giganews.com><INSYl.740928$yE1.253509@attbi_s21>
<9YKdnf9qLL1TYq7XnZ2dnUVZ_q2dnZ2d@giganews.com> <h-
KdncQ1TbGa_qnXnZ2dnUVZ_ohi4p2d@web-ster.com>
Subject: Re: ExpressPCB to Gerber file converter?
Date: Sun, 14 Jun 2009 19:41:50 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <u-6dnYjDg-lZF6jXnZ2dnUVZ_r6dnZ2d@giganews.com>
Lines: 56
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-1GZwiD8rTQKiXT8/TK5RlHWLZKCqz6s+13I3Dsv8RXrw1I4ABak/
DbyZtgWi8Uo5lZknoFNLkDI1deL!
VDYDCrY9ZO9GeCW4DNZkwzbveLFeOHA3/6VQ9XEAnWu0wbt0z7ooCqrbWmjC5rMdSOgWgPs=
X-Complaints-To: abuse@giganews.com

X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 3383
Xref: g2news2.google.com rec.radio.amateur.homebrew:2835 sci.electronics.cad:2741

"Tim Wescott" <tim@seemywebsite.com> wrote in message
news:h-KdncQ1TbGa_qnXnZ2dnUVZ_ohi4p2d@web-ster.com...
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>>
>> That's not going to happen. I know I can get some reverse engineering
>> software that will import the layout as a graphic then trace over it
>> using the PCB layout software to generate standard Gerber files. I'm
>> looking for something easy and I'm not paying them $75 a pop for each
>> small board to convert.
>>
>> I also found out there maybe some utilities out, still looking, there
>> that can convert from an exported PDF, or EPS file, to a Gerber format
>> too. Getting a PDF printer driver is easy. Use the driver when printing
>> out a copy of the board layout.
>
> Reverse the "Express" and the "PCB" and you'll find a really nice little
> company that will take Gerber files and make boards for you. Eagle PCB
> is free for small two-layer boards, includes schematic capture, and works
> well once you get your brain wrapped around their way of doing things.
>
> http://www.pcbexpress.com/
>
> --
> http://www.wescottdesign.com

I'm going to check them out. I do some small one-off PCB's to test some
ideas out. I would like to have the Gerber files when I'm done in case I
want to incorporate it in a larger design.

--
Regards;

Leland C. Scott
KC8LDO

"The most reliable components are
 the ones you leave out."

By Gordon Bell, father of the
minicomputer at DEC.

```
From -405546319492146105
X-Google-Thread: 241b302a50,fa9d79a1f390ba71
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 09 May 2009 14:25:30 -0500
Date: Sat, 09 May 2009 14:24:52 -0500
From: sorry-spammers <""w9wi\"@(sorry-spammers)">
Organization: Ham Radio W9WI
User-Agent: Thunderbird 2.0.0.21 (X11/20090318)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew antenna question please?
References: <dCfNl.37974$D9.32038@read2.cgocable.net>
In-Reply-To: <dCfNl.37974$D9.32038@read2.cgocable.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <XcmdnZkWkbo2RZjXnZ2dnUVZ_gGdnZ2d@earthlink.com>
Lines: 53
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NNTP-Posting-Host: 4.153.66.31
X-Trace: sv3-
LjwCfIdIGv20JElY5yP7LXxZO6+wispp23eeaHrpfjDPRh4OqhAuR60cnDil2HvgFhRRA9Pi6+Zuwcc!
OiboROidOPMATsrpGGd15LkN3dck3hTlLT0k+CXN+b7JOc7lQ4vba+curAIu+cnHUXjMfv/QVLxn!
s+Z82KYKgGNBZwUCzaJW31MoNw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 3480
Xref: g2news2.google.com rec.radio.amateur.homebrew:2682
```

Tuuk wrote:

> Hi
>
> Hope I can get some advice from the experts about my antenna.
>

> I have a 50ft self supporting tower, my goal is to put 2 antennas up.
> One dipole and one omni.
>
> I have an old omni direction antenna that I wish to put at the top, it
> has 3 traps in it with no writting on it so I am not sure what bands it
> will be suitable for however I have a pretty good tuner so I can use it
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> ground planes with it, 4 ground planes aluminum and longest possible is
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probably 20, 15, and 10 meters but "mikea" has the right idea,
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balun at the shack either.

It would be more useful if you were using coaxial cable to feed the dipole.

--

Doug Smith W9WI
Pleasant View, TN EM66

From 4578599042487919077
X-Google-Thread: 241b302a50,fa9d79a1f390ba71
X-Google-Attributes: gid241b302a50,public,usenet

```
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe03.iad.POSTED!7564ea0f!not-for-mail
From: "Dr. Barry L. Ornitz" <BLOrnitz48@charter.net>
Newsgroups: rec.radio.amateur.homebrew
References: <dCfNl.37974$D9.32038@read2.cgocable.net>
<XcmdnZkWkbo2RZjXnZ2dnUVZ_gGdnZ2d@earthlink.com>
In-Reply-To: <XcmdnZkWkbo2RZjXnZ2dnUVZ_gGdnZ2d@earthlink.com>
Subject: Re: Homebrew antenna question please?
Lines: 85
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
X-RFC2646: Format=Flowed; Response
Message-ID: <%RqNl.3898$qP.621@newsfe03.iad>
NNTP-Posting-Host: jnibogphckphemgkkgknfdakiclijcld
X-Complaints-To: abuse@charter.net
X-Trace:
ejcgghfdebcllckhkenaajobffgmphfmmnfjmjomlbmjklakjnibogphckphemgkfllejjhdijjjcbpjop
bdnpabllomlljbpdghhpdpigpgkldmbaipkldkohcplkengemlcloahffblffb
NNTP-Posting-Date: Sun, 10 May 2009 02:20:43 UTC
Date: Sat, 9 May 2009 22:20:39 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2683

"sorry-spammers" <""w9wi\"@(sorry-spammers)"> wrote in message
news:XcmdnZkWkbo2RZjXnZ2dnUVZ_gGdnZ2d@earthlink.com...
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The TR-7 is a nice rig. You should enjoy using it on the HF bands. Have fun...

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz48@charter.net

```
From 3547534911897603872
X-Google-Thread: 241b302a50,fa9d79a1f390ba71
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feed.cgocable.net!
read1.cgocable.net.POSTED!53ab2750!not-for-mail
From: " Tuuk" <nealr9000@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <dCfNl.37974$D9.32038@read2.cgocable.net>
<XcmdnZkWkbo2RZjXnZ2dnUVZ_gGdnZ2d@earthlink.com> <%RqNl.3898$qP.621@newsfe03.iad>
In-Reply-To: <%RqNl.3898$qP.621@newsfe03.iad>
Subject: Re: Homebrew antenna question please?
Lines: 112
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Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
Message-ID: <yKrNl.29560$gf.1301@read1.cgocable.net>
Date: Sat, 9 May 2009 23:20:53 -0400
NNTP-Posting-Host: 24.226.69.101
X-Complaints-To: news@cogeco.net
X-Trace: read1.cgocable.net 1241925662 24.226.69.101 (Sat, 09 May 2009 23:21:02
EDT)
NNTP-Posting-Date: Sat, 09 May 2009 23:21:02 EDT
Organization: Cogeco Cable
Xref: g2news2.google.com rec.radio.amateur.homebrew:2684
```

Thanks for the info

Yes, that is the Hy-Gain 14AVQ antenna I have. I found the owners manual online.

http://www.hy-gain.com/man/pdf/AV-14AVQ.pdf

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> 73, Dr. Barry L. Ornitz  WA4VZQ
> BLOrnitz48@charter.net
>
>



From -4441926446411811694
X-Google-Thread: 241b302a50,fa9d79a1f390ba71
X-Google-Attributes: gid241b302a50,public,usenet
```

X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news6
From: Bill M <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew antenna question please?
Date: Sat, 09 May 2009 22:17:32 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 132
Message-ID: <gu5kh10eio@news6.newsguy.com>
References: <dCfNl.37974$D9.32038@read2.cgocable.net>
<XcmdnZkWkbo2RZjXnZ2dnUVZ_gGdnZ2d@earthlink.com> <%RqNl.3898$qP.621@newsfe03.iad>
<yKrNl.29560$gf.1301@read1.cgocable.net>
NNTP-Posting-Host: pcbf604668169ab8a9024f38518c0e1ebea8c3d9c7555ab61.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
In-Reply-To: <yKrNl.29560$gf.1301@read1.cgocable.net>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2685

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> measure that but I don't have a resonance tester.
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> Thanks

I rebuilt some trap antennas many years ago and the main issues were simply minor mechanical things. Corrosion or loose sheet metal screws.

I'd suggest giving it a good mechanically-minded workover and you'll probably be good to go. I recall on my KLM beam that some of the plastic 'end' boots had deteriorated within just a few years so be wary of those plastic parts.

The bigger issue here would seem to be the ability to adjust the antenna. The dimensions are not necessarily "plug-n-play" and even in the best of situations with tuned radials may require some adjustment. It can work on top of a tower without the tuned radials but WILL require

some adjusting of the lengths unless you just want to accept it as it
happens to fall. Managing a vertical like that the top of a tower is an
exercise in physics leverage-wise and its no fun to do it multiple times :(

-Bill
>
>
>
>
>
>
>
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>> BLOrnitz48@charter.net
>>
>>
>

From -5482346111301208830
X-Google-Thread: da6537b9fb,156f06aab74a6426

```
X-Google-Attributes: gidda6537b9fb,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
newsfeed01.sul.t-online.de!t-online.de!fu-berlin.de!uni-berlin.de!individual.net!
not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Join the Most Exclusive Club on 20M!
Date: 10 May 2009 17:44:54 GMT
Lines: 24
Message-ID: <slrnh0e4km.1pbn.bit-bucket@shell.config.com>
References: <gt01u2$grg$1@panix2.panix.com>
<f52bebc0-8b95-46f9-8e1e-3dcb0ac00180@m24g2000vbp.googlegroups.com>
<gto60b$qgv$1@panix2.panix.com> <Ca-dnUZxW97oMGLUnZ2dnUVZ_oVi4p2d@bright.net>
Reply-To: If you must, <Reply_to@my.sig.adr>
X-Trace: individual.net 37zZRLsTY3eO8Qq6yVhBiggWEQ80i9TTOCHJD7XUVHdI4YhMn0
Cancel-Lock: sha1:/K4TsHsngtIV2zOKH8ecfylhY0I=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2686
rec.radio.amateur.boatanchors:2870

On Tue, 05 May 2009 03:07:43 +0000, Scott wrote:
> Scott Dorsey wrote:
>> bill.meara@gmail.com <bill.meara@gmail.com> wrote:
>>> Scott:  Great idea, but with the rocks on the operating freq I think
>>> you need to use either AM or DSB.  I recommend the latter.   Go for
>>> it!  73  Bill I0/N2CQR
>>
>> That's why if you order now you get this FREE MODULATION TRANSFORMER.
>> Postage and oil disposal fees not included.
>> --scott
>>
> I'm in an even more exclusive 20M club.  The "I never operate 20M club"
>   Seriously!  Every time I listen on 20M, sounds like a
> cesspool...oops...let me don my asbestos underwear...

Yep.  It was the head-butt-style jerks and the cesspool environment
on 75M and 20M that drove me to check out 6M some 12-13 years ago.
I've never looked back.

Jonesy
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    * Killfiling google & XXXXbanter.com: jonz.net/ng.htm


From 7142440273428166561
X-Google-Thread: da6537b9fb,156f06aab74a6426
X-Google-Attributes: gidda6537b9fb,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 10 May 2009 15:33:02 -0500
Date: Sun, 10 May 2009 20:33:01 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Join the Most Exclusive Club on 20M!
References: <gt01u2$grg$1@panix2.panix.com>
<f52bebc0-8b95-46f9-8e1e-3dcb0ac00180@m24g2000vbp.googlegroups.com>
<gto60b$qgv$1@panix2.panix.com> <Ca-dnUZxW97oMGLUnZ2dnUVZ_oVi4p2d@bright.net>
<slrnh0e4km.1pbn.bit-bucket@shell.config.com>
In-Reply-To: <slrnh0e4km.1pbn.bit-bucket@shell.config.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <nqmdnZ9V56tjpJrXnZ2dnUVZ_gmdnZ2d@bright.net>
Lines: 23
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-UVzazXPAusJ+mcwtEJyYgiDGMFs1UBdVM/FDt+ELsm/
ouO9m4LsJe9nX39BCqXpAjC3gtNQDAOLmyMR!14dnmosSS+HR+QRubFyy4jM0N3oviWwXhr/
jecsDwDbikVNx1A4pBiviOBIT85rek9O9+q6BYe9N!/E2kHsiMcw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2271
Xref: g2news2.google.com rec.radio.amateur.homebrew:2687
rec.radio.amateur.boatanchors:2871

Allodoxaphobia wrote:

>>>
>> I'm in an even more exclusive 20M club. The "I never operate 20M club"
>>   Seriously! Every time I listen on 20M, sounds like a
>> cesspool...oops...let me don my asbestos underwear...
>
> Yep. It was the head-butt-style jerks and the cesspool environment
> on 75M and 20M that drove me to check out 6M some 12-13 years ago.
> I've never looked back.
>
> Jonesy

Amen brother...When mobile, I use 17M if I need to be on HF. Otherwise, I am like you...I have 6M through 1296 plus 10 GHz now. Well, actually, I just finished up building the 1296 transverter today and did a quick checkout on the TX side...only 2 mW...should be about 20 mW, so I have to check into it, but I'm busy finishing up the checkout of a customers 1296 unit today so I can get it shipped to him (I built it for him).

Scott

N0EDV
http://corbenflyer.tripod.com/

```
From 2175064360654415657
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y6g2000prf.googlegroups.com!not-for-
mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Help with data for a microwave klystron power amplifier
Date: Mon, 11 May 2009 03:18:07 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
Message-ID: <a0ee99c9-296a-445e-80b0-50a642e0e7dd@y6g2000prf.googlegroups.com>
NNTP-Posting-Host: 222.152.26.172
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1242037087 5412 127.0.0.1 (11 May 2009 10:18:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 11 May 2009 10:18:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y6g2000prf.googlegroups.com; posting-host=222.152.26.172;
     posting-account=TfKoOgkAAABQzW2yM8tZrYe8S04m-wqP
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB6),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2688
```

Hi All,

A friend has acquired several Hughes 8781AH Klystron Amplifiers (from
AML-STX-141 transmitters).

The tubes apparently will generate about +45dBm at 12GHz from -2200V,
waveguide is WR75 / WG17 (10-15GHz)

Can anyone help with further information about this tube please.

I am interested in knowing the bandwidth (will it run at 10GHz).

Fire extinguisher and change of underwear are available for the first
powering up...

Thanks,

Mark

```
From -8244968486577709696
X-Google-Thread: 241b302a50,1845b57d5fe6b6e5,start
X-Google-Attributes: gid241b302a50,public,usenet
```

X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
From: "kc8qjp" <criscok@hotmail.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Linear Amplifier Plans 1-16 Pill On DVD
Date: Mon, 11 May 2009 14:13:06 -0400
Lines: 62
Organization: crisco kathy
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
NNTP-Posting-Host: $$5jnnqhingh7l64.newsfeed.x-privat.org
Message-ID: <4a086abc@x-privat.org>
X-Authenticated-User: $$q3_o_tx91q7xfh$rfsj2gd6
X-Complaints-To: abuse@x-privat.org
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!news.k-dsl.de!x-privat.org!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.equipment:1527 rec.radio.amateur.homebrew:2689

This is the DVD every CB or Ham Radio Operator has been looking for who likes to build their own Amplifiers.

1 to 16 Pill AMP Designs...................

http://cgi.ebay.com/Linear-Amplifier-Plans-1-16-Pill-On-DVD_W0QQitemZ200332937473QQcmdZViewItemQQptZLH_DefaultDomain_0?hash=item2ea4c60901&_trksid=p3286.c0.m14&_trkparms=72%3A1234%7C66%3A2%7C65%3A12%7C39%3A1%7C240%3A1318%7C301%3A0%7C293%3A1%7C294%3A50

Description

Item Specifics - Item Condition
Condition: New

This is the DVD every CB or Ham Radio Operator has been looking for who likes to build their own Amplifiers.

1 to 16 Pill AMP Designs

Step by Step directions

Full Schematics

Full Color Pics of step by step build of each Box 1-16 pill

Full Parts List for each Design

And most important were to by all the parts you need is included.

This DVD makes it very easy for the Novice to build their Own Box

This is just plans we are not selling anything but plans on how to build these units and its for Educational Purpose only.

No Returns or Money back.Each DVD is checked before they are shipped to make sure they work 100%

```
begin 666 s.gif
M1TE&.#EA`0`!`)'_`/___P```,# P ```"'Y! $```(`+ `````!``$```("
$5 $`.P``
`
end
```

From 1661308149605244174
X-Google-Thread: 241b302a50,1845b57d5fe6b6e5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 11 May 2009 17:20:05 -0500
Date: Mon, 11 May 2009 22:19:33 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Linear Amplifier Plans 1-16 Pill On DVD
References: <4a086abc@x-privat.org>
In-Reply-To: <4a086abc@x-privat.org>

```
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <4-adndQKs58LOZXXnZ2dnUVZ8oKdnZ2d@pipex.net>
Lines: 9
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 85.210.64.177
X-Trace: sv3-HH1CxWwv940MB5xW90re/6DK/
rw6cVJpkp+foH9Sn3BnkwtVzmKhHv1rcYULaB+Yyvv33HgxrE66Fln!
KeAActFkdbcN5W6dEpteUg7nl6v6te5emqDNDxdPZmwMJvuiMTep64jLUPgImkEVLNHd9hTz+enf!
BewqKVAcQuGNUGY2eBAzD1wPqQ==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1520
Xref: g2news2.google.com rec.radio.amateur.equipment:1528
rec.radio.amateur.homebrew:2690

kc8qjp wrote:
> This is the DVD every CB or Ham Radio Operator has been looking for who
> likes to build their own Amplifiers.

=======================================
CBers should NOT build any transmitting equipment ....because that is
illegal !

Frank   GM0CSZ / KN6WH


From 1041132058817995694
X-Google-Thread: 241b302a50,1845b57d5fe6b6e5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!r3g2000vbp.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Linear Amplifier Plans 1-16 Pill On DVD
Date: Mon, 11 May 2009 18:45:11 -0700 (PDT)
Organization: http://groups.google.com
Lines: 56
Message-ID: <47532aab-fe3e-49e4-9e41-ec35da576a1c@r3g2000vbp.googlegroups.com>
References: <4a086abc@x-privat.org>
NNTP-Posting-Host: 75.190.185.150
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1242092711 26339 127.0.0.1 (12 May 2009 01:45:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 12 May 2009 01:45:11 +0000 (UTC)
```

```
Complaints-To: groups-abuse@google.com
Injection-Info: r3g2000vbp.googlegroups.com; posting-host=75.190.185.150;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:1529
rec.radio.amateur.homebrew:2691

On May 11, 2:13=A0pm, "kc8qjp" <cris...@hotmail.com> wrote:
> This is the DVD every CB or Ham Radio Operator has been looking for who
> likes to build their own Amplifiers.
>
> 1 to 16 Pill AMP Designs....................
>
> http://cgi.ebay.com/Linear-Amplifier-Plans-1-16-Pill-On-DVD_W0QQitemZ...
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Description
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0Item Specifics - Item Cond=
ition
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Condition=
: =A0New
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 This is the DVD every CB or Ham Radio=
 Operator has been
> looking for who likes to build their own Amplifiers.
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 1 to 16 Pill AMP Designs
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Step by Step directions
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Full Schematics
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Full Color Pics of step by step build=
 of each Box 1-16
> pill
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Full Parts List for each Design
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 And most important were to by all the=
 parts you need is
> included.
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 This DVD makes it very easy for the N=
ovice to build their
> Own Box
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 This is just plans we are not selling=
 anything but plans
> on how to build these units and its for Educational Purpose only.
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 No Returns or Money back.Each DVD is =
checked before they
> are shipped to make sure they work 100%
>
> begin 666 s.gif
> M1TE&.#EA`0`!`)'_`/___P```,# P ```"'Y! $```(`+ `````!``$```("
> $5 $`.P``
> `
> end

I doubt if it will be long before its on the internet for free.

Jimmie



From -8493483779566984962
X-Google-Thread: 241b302a50,1845b57d5fe6b6e5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
newshosting.com!novia!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 11 May 2009 21:48:50 -0500
Date: Tue, 12 May 2009 02:48:50 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Linear Amplifier Plans 1-16 Pill On DVD
References: <4a086abc@x-privat.org> <4-adndQKs58LOZXXnZ2dnUVZ8oKdnZ2d@pipex.net>
In-Reply-To: <4-adndQKs58LOZXXnZ2dnUVZ8oKdnZ2d@pipex.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <hKmdnbHcGq0PfpXXnZ2dnUVZ_ridnZ2d@bright.net>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-SSyxGg9LlFl/lJINYIUYMSISi0FPcmEG2IOoBCpC/
fLqo0KA6DKesAHmFYnMa0uSQvE3dJk/BO9PBMr!
x3tjOlwRADEYR3LhYFA9yjXUX9QkkQaLqNL7yytvpRrj9eckXUU4TfhefW51gIfrIPITcw11mUEP!
Fpisl3aRgw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.equipment:1531
rec.radio.amateur.homebrew:2692

Highland Ham wrote:
> kc8qjp wrote:
>> This is the DVD every CB or Ham Radio Operator has been looking for
>> who likes to build their own Amplifiers.
```

```
>
> =======================================
> CBers should NOT build any transmitting equipment ....because that is
> illegal !
>
> Frank   GM0CSZ / KN6WH

Not to worry...it states the plans are for educational use only!  ;)
Maybe it would be good for CBers to build high voltage amps if you get
my drift ;)  Just kidding...they're people too...

Scott
N0EDV



From -439298315561989150
X-Google-Thread: 241b302a50,6272404d2b1399f4,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l28g2000vba.googlegroups.com!not-for-
mail
From: "tigerbusiness@gmail.com" <tigerbusiness@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Superstar3900 Black + Lemm 12 Ampere
Date: Thu, 14 May 2009 02:40:38 -0700 (PDT)
Organization: http://groups.google.com
Lines: 7
Message-ID: <7fbd18be-4f09-4ab7-a0f9-b1e75631bc29@l28g2000vba.googlegroups.com>
NNTP-Posting-Host: 94.163.193.102
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1242294039 31172 127.0.0.1 (14 May 2009 09:40:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 14 May 2009 09:40:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l28g2000vba.googlegroups.com; posting-host=94.163.193.102;
     posting-account=XIZldAoAAAC8UiwYrM8c2Y783MrGkUDG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; it; rv:1.9.0.10)
     Gecko/2009042316 Firefox/3.0.10,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2693

Superstar 3900 Black
http://tinyurl.com/pq4z8v
Lemm 12 Ampere
http://tinyurl.com/oxv8op

73 51 only
Alan
```

From 2888844696097378469
X-Google-Thread: 241b302a50,4be2fe2b9f840bc4,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
gnilink.net!nx01.iad01.newshosting.com!newshosting.com!216.196.98.140.MISMATCH!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 14 May 2009 17:13:32 -0500
From: Patrick Rimbault <Patrick.Rimbault.4524ce7@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re-Coil an FM, MW and SW radio?
Date: Thu, 14 May 2009 17:22:04 +0100
Message-ID: <Patrick.Rimbault.4524ce7@radiobanter.com>
Organization: RadioBanter.com
Lines: 27
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-x2Ohejg9psNte2/tkUnRUd9B6zrxG8K6KV7xX7WV/
oapa+MVmUL67Y9a4VNnbKCcrUxVz2q5tjXS2g0!W6CAPOxM/Ux3/x/
S0CENyzvHcA8a1Fnf8Q7oL7beZoOsbFmShYFPvv4sJA2x3HleNQLXlBX00HTe!uub4b/d8gH/eTvm3
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Lines: 10
X-Original-Bytes: 1965
Xref: g2news2.google.com rec.radio.amateur.homebrew:2694

heya fellas,

I recently took apart an old radio. My interest in radios has been growing for the past few months. The only problem is that I have no where near the funds required to set myself up with even a decent portable radio. Anyway, back to this radio. It was probably made in the late 80's to early 90's. It says its a Bluapunkt Sabre 90... Does this mean anything to you guys?

It is almost a standard radio, except that it can handle SW. Now, when I opened it up, I noticed 3 coils of wire wrapped around some sort of a tube. In my brain, im think that these 3 coils are for the 3 different frequency bands! So, now this gets me thinking, maybe I can make some different coils, and so change the frequency band? Is it that simple, or is there something more to it? I really want to listen in on our nearby airport at 121.9MHz... I think.

Are there any websites that I can visit to help aswell.

Kind regards,

Patrick

--
Patrick Rimbault

```
From -7553466039020376466
X-Google-Thread: 241b302a50,4be2fe2b9f840bc4
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news1
From: Bill M <radioexray@geemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Re-Coil an FM, MW and SW radio?
Date: Thu, 14 May 2009 18:49:39 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 40
Message-ID: <gui7660o9g@news1.newsguy.com>
References: <Patrick.Rimbault.4524ce7@radiobanter.com>
NNTP-Posting-Host: p24d1bfbfff00000073b1290e905b03f4f4edcc2ec7af5129.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <Patrick.Rimbault.4524ce7@radiobanter.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2695
```

Patrick Rimbault wrote:

>
> It is almost a standard radio, except that it can handle SW. Now, when
> I opened it up, I noticed 3 coils of wire wrapped around some sort of a
> tube. In my brain, im think that these 3 coils are for the 3 different
> frequency bands! So, now this gets me thinking, maybe I can make some
> different coils, and so change the frequency band? Is it that simple,
> or is there something more to it? I really want to listen in on our
> nearby airport at 121.9MHz... I think.
>
> Are there any websites that I can visit to help aswell.
>
> Kind regards,
> Patrick

Sounds like you are describing the ferrite rod internal antenna. The three coils might be LW, MW or 1-2 shortwave bands.

These are actually coils for the antenna input stage for those lower frequency bands. The equivalent "FM" coil is likely going to be a little tiny thing of several turns mounted on a circuit board.

Thats only half the story. There's also a set of oscillator coils for each band....maybe in little square cans or out in the open.

The quick answer is no, this isn't a simple modification. Many of us (me included) have done such things :) so I can't say its not possible but you would be much farther ahead maybe building a little Aircraft band converter kit of something of that nature.

Just my 2c

-Bill

>
>
>
>

```
From -4575897399549109822
X-Google-Thread: 241b302a50,4be2fe2b9f840bc4
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.posted.nuvoxcommunications!news.posted.nuvoxcommunications.POSTED!not-for-
mail
NNTP-Posting-Date: Thu, 14 May 2009 18:21:31 -0500
From: Rich Griffiths <richgrif@one.net>
Subject: Re: Re-Coil an FM, MW and SW radio?
Newsgroups: rec.radio.amateur.homebrew
References: <Patrick.Rimbault.4524ce7@radiobanter.com>
     <gui7660o9g@news1.newsguy.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <9bydnbqoGNXhOpHXnZ2dnUVZ_oudnZ2d@posted.nuvoxcommunications>
Date: Thu, 14 May 2009 18:21:32 -0500
Lines: 47
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.23.31.223
X-Trace: sv3-C4mTRRmTr3jejQPTqb+PKucgYmnwTZ7RnjsgRtSNsljRmI/MKZ/
s+4878IcOag311fUwFrnpFvP2s7N!LUBnu0Nvb7YAI3evjcq1d7MnZBs43mEX/
MFWCxyMWYCnm+LOjhuuisM+1BMSmdmLu4e/84o7D4js!pjdoNI+fHbjouBIcAe6FgB/
h4ty6cu0a7aS4Pq6ncHY=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

X-Postfilter: 1.3.39
X-Original-Bytes: 2913
Xref: g2news2.google.com rec.radio.amateur.homebrew:2696

On Thu, 14 May 2009 18:49:39 -0400, Bill M wrote:

> Patrick Rimbault wrote:
>
>
>> It is almost a standard radio, except that it can handle SW. Now, when
>> I opened it up, I noticed 3 coils of wire wrapped around some sort of a
>> tube. In my brain, im think that these 3 coils are for the 3 different
>> frequency bands! So, now this gets me thinking, maybe I can make some
>> different coils, and so change the frequency band? Is it that simple,
>> or is there something more to it? I really want to listen in on our
>> nearby airport at 121.9MHz... I think.
>>
>> Are there any websites that I can visit to help aswell.
>>
>> Kind regards,
>> Patrick
>
> Sounds like you are describing the ferrite rod internal antenna. The
> three coils might be LW, MW or 1-2 shortwave bands.
>
> These are actually coils for the antenna input stage for those lower
> frequency bands. The equivalent "FM" coil is likely going to be a
> little tiny thing of several turns mounted on a circuit board.
>
> Thats only half the story. There's also a set of oscillator coils for
> each band....maybe in little square cans or out in the open.
>
> The quick answer is no, this isn't a simple modification. Many of us
> (me included) have done such things :) so I can't say its not possible
> but you would be much farther ahead maybe building a little Aircraft
> band converter kit of something of that nature.
>
> Just my 2c
>
> -Bill
>
>
>

Also, if I remember correctly, aircraft use AM in the 108-136 MHz range.
So modifying the 88-108 MHz FM portion of the receiver wouldn't work.
And modifying one of the lower AM/SSB bands to work on VHF would be quite
a stretch.

... Rich   W2RG

From 4342326566277546227
X-Google-Thread: 241b302a50,4be2fe2b9f840bc4
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news5
From: Bill M <radioexray@geemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Re-Coil an FM, MW and SW radio?
Date: Thu, 14 May 2009 19:25:30 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 9
Message-ID: <gui99d052q@news5.newsguy.com>
References: <Patrick.Rimbault.4524ce7@radiobanter.com>
<gui7660o9g@news1.newsguy.com>
<9bydnbqoGNXhOpHXnZ2dnUVZ_oudnZ2d@posted.nuvoxcommunications>
NNTP-Posting-Host: p6af1ab3cc8bc9e0533ad058716a7a61513b75b8bc71d8a92.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <9bydnbqoGNXhOpHXnZ2dnUVZ_oudnZ2d@posted.nuvoxcommunications>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2697

Rich Griffiths wrote:

>
> Also, if I remember correctly, aircraft use AM in the 108-136 MHz range.
> So modifying the 88-108 MHz FM portion of the receiver wouldn't work.

Doesn't really matter much since you can slope tune it.

-B.

From 4503074150801147693
X-Google-Thread: 241b302a50,4be2fe2b9f840bc4
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.posted.nuvoxcommunications!news.posted.nuvoxcommunications.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 14 May 2009 19:14:44 -0500
From: Rich Griffiths <richgrif@one.net>
Subject: Re: Re-Coil an FM, MW and SW radio?
Newsgroups: rec.radio.amateur.homebrew
References: <Patrick.Rimbault.4524ce7@radiobanter.com>
<gui7660o9g@news1.newsguy.com>
<9bydnbqoGNXhOpHXnZ2dnUVZ_oudnZ2d@posted.nuvoxcommunications>

```
     <gui99d052q@news5.newsguy.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <9bydnbWoGNVpLpHXnZ2dnUVZ_oudnZ2d@posted.nuvoxcommunications>
Date: Thu, 14 May 2009 19:14:44 -0500
Lines: 18
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.23.31.223
X-Trace: sv3-Swgf0wY/npN2bTd0OVtDPfNwPdPWWFtutaBIdT3bc3/
tF3LVOUT0V7BNwiWqIxdHiuNgUEO+lznwkpG!kKIynRxF3AJ/k9iSidg/
LxqbgezwXGkErlMstQqtBGCnpsGR3ZA2QwBKaVG1qzmcVT97AtHfwXlm!
aetV96G1TwjDzHPzNEy5xXzVZ0ri4fvs66qu35qwGpg=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1748
Xref: g2news2.google.com rec.radio.amateur.homebrew:2698

On Thu, 14 May 2009 19:25:30 -0400, Bill M wrote:

> Rich Griffiths wrote:
>
>
>> Also, if I remember correctly, aircraft use AM in the 108-136 MHz
>> range. So modifying the 88-108 MHz FM portion of the receiver wouldn't
>> work.
>
> Doesn't really matter much since you can slope tune it.
>
> -B.

It's been a long time since I did it, but isn't slope detection for
receiving an FM signal using an AM receiver?  This is the reverse
situation.

... Rich



From -2736243686389383444
X-Google-Thread: 241b302a50,4be2fe2b9f840bc4
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 14 May 2009 19:24:53 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Re-Coil an FM, MW and SW radio?
References: <Patrick.Rimbault.4524ce7@radiobanter.com>
```

<gui7660o9g@news1.newsguy.com>
<9bydnbqoGNXhOpHXnZ2dnUVZ_oudnZ2d@posted.nuvoxcommunications>
<gui99d052q@news5.newsguy.com>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Thu, 14 May 2009 17:24:48 -0700
Message-ID: <gbpud6-trk.ln1@radagast.org>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.159.209.148
X-Trace: sv3-jGbp05U4nip9IexdrvUTMuPtj/hsHWWdqmNrmCxFYropQdOqt0WFjo8/
ZIOlJtOblzCoNWWmI/E/QFC!
1XoZtQ+ErH9j9zqcYxWMSSjrxNyChGBpfzHHy3lVzwRM0e12brqVjQBP2hJqcQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2224
Xref: g2news2.google.com rec.radio.amateur.homebrew:2699

In article <gui99d052q@news5.newsguy.com>,
Bill M <radioexray@geemail.com> wrote:

>> Also, if I remember correctly, aircraft use AM in the 108-136 MHz range.
>> So modifying the 88-108 MHz FM portion of the receiver wouldn't work.

>Doesn't really matter much since you can slope tune it.

IIRC, slope tuning can be used to allow an AM receiver to demodulate
FM (albeit somewhat crudely).

Does it work in reverse? Can you offset-tune an FM receiver, and get
its discriminator to demodulate an AM carrier-and-sidebands?

Seems to me that this wouldn't necessarily work... the
huge-amounts-of-gain-and-then-clip-the-result architecture of an FM's
IF strip is going to equalize out the amplitude variations in the AM
signal pretty effectively, won't it?

--
Dave Platt <dplatt@radagast.org>   AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From -7301193031878378557
X-Google-Thread: 241b302a50,4be2fe2b9f840bc4
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII

```
Path: g2news2.google.com!postnews.google.com!21g2000vbk.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Re-Coil an FM, MW and SW radio?
Date: Thu, 14 May 2009 17:41:54 -0700 (PDT)
Organization: http://groups.google.com
Lines: 39
Message-ID: <e813c742-d6dd-4e76-996f-645302c0720d@21g2000vbk.googlegroups.com>
References: <Patrick.Rimbault.4524ce7@radiobanter.com>
<gui7660o9g@news1.newsguy.com>
     <9bydnbqoGNXhOpHXnZ2dnUVZ_oudnZ2d@posted.nuvoxcommunications>
     <gui99d052q@news5.newsguy.com> <gbpud6-trk.ln1@radagast.org>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1242348114 5015 127.0.0.1 (15 May 2009 00:41:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 15 May 2009 00:41:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 21g2000vbk.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2700

On May 14, 8:24=A0pm, dpl...@radagast.org (Dave Platt) wrote:
> In article <gui99d0...@news5.newsguy.com>,
> Bill M =A0<radioex...@geemail.com> wrote:
>
> >> Also, if I remember correctly, aircraft use AM in the 108-136 MHz rang=
e. =A0
> >> So modifying the 88-108 MHz FM portion of the receiver wouldn't work. =
=A0
> >Doesn't really matter much since you can slope tune it.
>
> IIRC, slope tuning can be used to allow an AM receiver to demodulate
> FM (albeit somewhat crudely).
>
> Does it work in reverse? =A0Can you offset-tune an FM receiver, and get
> its discriminator to demodulate an AM carrier-and-sidebands?
>
> Seems to me that this wouldn't necessarily work... the
> huge-amounts-of-gain-and-then-clip-the-result architecture of an FM's
> IF strip is going to equalize out the amplitude variations in the AM
> signal pretty effectively, won't it?
>
> --
> Dave Platt <dpl...@radagast.org> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =
=A0 =A0 =A0 =A0 =A0 =A0 =A0 AE6EO
> Friends of Jade Warrior home page: =A0http://www.radagast.org/jade-warrio=
```

r
> =A0 I do _not_ wish to receive unsolicited commercial email, and I will
> =A0 =A0 =A0boycott any company which has the gall to send me such ads!

If an FM radio has a decent amount of limiting forget about receiving
FM but if the limiting can be removed or it doesnt have too much you
can receive AM on an FM receiver thought it may be fairly distored but
it most likely will be copyable. For example I have an ICOM two meter
FM transceiver that will tune the VHF aircraft frequencies. Sorry
but I forget the model # at present I bought it about 15 years ago and
havent tused it in 10 years.

Jimmie

```
From 3749463167399568092
X-Google-Thread: 241b302a50,4be2fe2b9f840bc4
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!z16g2000prd.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Re-Coil an FM, MW and SW radio?
Date: Thu, 14 May 2009 21:32:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 73
Message-ID: <13d9476f-c7e4-4ed0-8e18-b7b068d64d6f@z16g2000prd.googlegroups.com>
References: <Patrick.Rimbault.4524ce7@radiobanter.com>
<gui7660o9g@news1.newsguy.com>
     <9bydnbqoGNXhOpHXnZ2dnUVZ_oudnZ2d@posted.nuvoxcommunications>
     <gui99d052q@news5.newsguy.com> <gbpud6-trk.ln1@radagast.org>
     <e813c742-d6dd-4e76-996f-645302c0720d@21g2000vbk.googlegroups.com>
NNTP-Posting-Host: 76.226.206.226
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1242361948 16794 127.0.0.1 (15 May 2009 04:32:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 15 May 2009 04:32:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z16g2000prd.googlegroups.com; posting-host=76.226.206.226;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.10)
     Gecko/2009042316 Firefox/3.0.10 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2701
```

Hey OM:

Back that far they been using PLL for FM demod. Only because they

needed to demod stereo phase, at 15 some Khz. Find the slope in that
PLL and it'll detect AM. But most osc's in those things are only good
to 110Mhz, with 10.7 Mhz IF, that'll get you to 120.7Mhz You just
can't make the capacitance of the circuit go away with a coil.
If you are lucky the airport your near will be within 108 to 120.7 Mhz

You might as well just build a converter, like back in the day when FM
first came out they used a converter to take 88 to 108 MHz and put it
on the AM band. All you did was plug the box into the antenna of your
AM car radio and viola' FM and with a reverb you could even simulate
stereo. That was b4 8 track tape decks.

Heck I made a living making and selling a converter for police band
453Mhz to AM radio band you could actually tune 4 police channels in
the Detroit, MI USA area with the converter and any AM radio. We used
a CB crystal for the oscillator multiplied it up to 452 Mhz and viola'
police band on any AM radio. the converter was the size of a pack of
cigarettes.

This link will give you an idea now a days things are a lot easier:
http://tinyurl.com/qwk9pw

73 OM

de n8zu

On May 14, 8:41=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> On May 14, 8:24=A0pm, dpl...@radagast.org (Dave Platt) wrote:
>
>
>
> > In article <gui99d0...@news5.newsguy.com>,
> > Bill M =A0<radioex...@geemail.com> wrote:
>
> > >> Also, if I remember correctly, aircraft use AM in the 108-136 MHz ra=
nge. =A0
> > >> So modifying the 88-108 MHz FM portion of the receiver wouldn't work=
. =A0
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>
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>
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> > huge-amounts-of-gain-and-then-clip-the-result architecture of an FM's
> > IF strip is going to equalize out the amplitude variations in the AM
> > signal pretty effectively, won't it?
>
> > --

```
> > Dave Platt <dpl...@radagast.org> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 AE6EO
> > Friends of Jade Warrior home page: =A0http://www.radagast.org/jade-warr=
ior
> > =A0 I do _not_ wish to receive unsolicited commercial email, and I will
> > =A0 =A0 =A0boycott any company which has the gall to send me such ads!
>
> If an FM radio has a decent amount of limiting forget about receiving
> FM but if the limiting can be removed or it doesnt have too much you
> can receive AM on an FM receiver thought it may be fairly distored but
> it most likely will be copyable. For example I have an ICOM two meter
> FM =A0transceiver that =A0will tune the VHF aircraft frequencies. Sorry
> but I forget the model # at present I bought it about 15 years ago and
> havent tused it in 10 years.
>
> Jimmie



From 3498286047076759060
X-Google-Thread: 241b302a50,1845b57d5fe6b6e5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!b1g2000vbc.googlegroups.com!not-for-
mail
From: "KD8IMG, Robert Trendel, is a twice convicted stalker of women."
<mopeyzakween@yahoo.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Linear Amplifier Plans 1-16 Pill On DVD
Date: Fri, 15 May 2009 08:45:44 -0700 (PDT)
Organization: http://groups.google.com
Lines: 55
Message-ID: <7a5421ab-79a2-4005-99f9-e6a812081d17@b1g2000vbc.googlegroups.com>
References: <4a086abc@x-privat.org>
NNTP-Posting-Host: 72.240.210.0
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1242402344 10913 127.0.0.1 (15 May 2009 15:45:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 15 May 2009 15:45:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b1g2000vbc.googlegroups.com; posting-host=72.240.210.0;
     posting-account=EYauFwoAAADpgTKtMQl5sSxO0kmxmu9w
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT
     5.1),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:1542
rec.radio.amateur.homebrew:2702

On May 11, 2:13=A0pm, "kc8qjp" <cris...@hotmail.com> wrote:
> This is the DVD every CB or Ham Radio Operator has been looking for who
> likes to build their own Amplifiers.
>
> 1 to 16 Pill AMP Designs...................
>
> http://cgi.ebay.com/Linear-Amplifier-Plans-1-16-Pill-On-DVD_W0QQitemZ...
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Description
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0Item Specifics - Item Cond=
ition
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Condition=
: =A0New
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 This is the DVD every CB or Ham Radio=
 Operator has been
> looking for who likes to build their own Amplifiers.
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 1 to 16 Pill AMP Designs
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Step by Step directions
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Full Schematics
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Full Color Pics of step by step build=
 of each Box 1-16
> pill
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Full Parts List for each Design
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 And most important were to by all the=
 parts you need is
> included.
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 This DVD makes it very easy for the N=
ovice to build their
> Own Box
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 This is just plans we are not selling=
 anything but plans
> on how to build these units and its for Educational Purpose only.
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 No Returns or Money back.Each DVD is =
checked before they
> are shipped to make sure they work 100%
>
> begin 666 s.gif
> M1TE&.#EA`0`!`)'_`/___P```,# P ```"'Y! $```(`+ `````!``$```("
> $5 $`.P``
> `
> end
```

The poster of this message is moparholic at hotmail.com...he is
forging a female ham's callsign

```
From 4889095055640097878
X-Google-Thread: 241b302a50,1845b57d5fe6b6e5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news3
From: Bill M <radioexray@geemail.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Linear Amplifier Plans 1-16 Pill On DVD
Date: Fri, 15 May 2009 16:44:17 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 9
Message-ID: <gukk720rl2@news3.newsguy.com>
References: <4a086abc@x-privat.org> <7a5421ab-79a2-4005-99f9-
e6a812081d17@b1g2000vbc.googlegroups.com>
NNTP-Posting-Host: p24d1bfbfff00000073b1290e905b03f4f4edcc2ec7af5129.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <7a5421ab-79a2-4005-99f9-e6a812081d17@b1g2000vbc.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.equipment:1543
rec.radio.amateur.homebrew:2703
```

KD8IMG, Robert Trendel, is a twice convicted stalker of women. wrote:

>
> The poster of this message is moparholic at hotmail.com...he is
> forging a female ham's callsign

You're kidding, right?

-Bill

```
From -6591827899796854472
X-Google-Thread: 241b302a50,1845b57d5fe6b6e5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!
news2.glorb.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-online.de!
newsfeed.straub-nv.de!news.mixmin.net!not-for-mail
From: "Roger & Suzanne Nair" <r&snair@lycos.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Linear Amplifier Plans 1-16 Pill On DVD
Date: Fri, 15 May 2009 17:00:35 -0400
Organization: roger and sue
```

Lines: 64
Message-ID: <gukl5r$bqb$2@news.mixmin.net>
References: <4a086abc@x-privat.org> <7a5421ab-79a2-4005-99f9-e6a812081d17@b1g2000vbc.googlegroups.com>
NNTP-Posting-Host: fb23a3beb68234f52ed618768f4cdd88
X-Complaints-To: abuse@mixmin.net
NNTP-Posting-Date: Fri, 15 May 2009 21:00:43 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.equipment:1544 rec.radio.amateur.homebrew:2704

"KD8IMG, Robert Trendel, is a twice convicted stalker of women."
<mopeyzakween@yahoo.com> wrote in message
news:7a5421ab-79a2-4005-99f9-e6a812081d17@b1g2000vbc.googlegroups.com...
On May 11, 2:13 pm, "kc8qjp" <cris...@hotmail.com> wrote:
> This is the DVD every CB or Ham Radio Operator has been looking for who
> likes to build their own Amplifiers.
>
> 1 to 16 Pill AMP Designs...................
>
> http://cgi.ebay.com/Linear-Amplifier-Plans-1-16-Pill-On-DVD_W0QQitemZ...
>
> Description
>
> Item Specifics - Item Condition
> Condition: New
>
> This is the DVD every CB or Ham Radio Operator has been
> looking for who likes to build their own Amplifiers.
>
> 1 to 16 Pill AMP Designs
>
> Step by Step directions
>
> Full Schematics
>
> Full Color Pics of step by step build of each Box 1-16
> pill
>
> Full Parts List for each Design
>
> And most important were to by all the parts you need is
> included.
>
> This DVD makes it very easy for the Novice to build their
> Own Box
>
> This is just plans we are not selling anything but plans

~~~~
> on how to build these units and its for Educational Purpose only.
>
> No Returns or Money back.Each DVD is checked before they
> are shipped to make sure they work 100%
>
> begin 666 s.gif
> M1TE&.#EA`0`!`)'_`/___P```,# P ```"'Y! $```(`+ `````!``$```("
> $5 $`.P``
> `
> end

> The poster of this message is moparholic at hotmail.com...he is
> forging a female ham's callsign
>
>
Who in their right mind would want to pretend to be kc8qjp crisco kathy???

http://wwwcsif.cs.ucdavis.edu/~loewen/fat-woman.jpg

  I don't want her
  you can have her
  she's too fat
  for me





From -4239852533575420441
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!v17g2000vbb.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Re-Coil an FM, MW and SW radio?
Date: Fri, 15 May 2009 15:45:51 -0700 (PDT)
Organization: http://groups.google.com
Lines: 89
Message-ID: <090de694-cc4c-464e-b216-9c5e547e1f65@v17g2000vbb.googlegroups.com>
References: <Patrick.Rimbault.4524ce7@radiobanter.com>
<gui7660o9g@news1.newsguy.com>
     <9bydnbqoGNXhOpHXnZ2dnUVZ_oudnZ2d@posted.nuvoxcommunications>
     <gui99d052q@news5.newsguy.com> <gbpud6-trk.ln1@radagast.org>
     <e813c742-d6dd-4e76-996f-645302c0720d@21g2000vbk.googlegroups.com>
     <13d9476f-c7e4-4ed0-8e18-b7b068d64d6f@z16g2000prd.googlegroups.com>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1242427551 28540 127.0.0.1 (15 May 2009 22:45:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 15 May 2009 22:45:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
~~~~

```
Injection-Info: v17g2000vbb.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2705

On May 15, 12:32=A0am, raypsi <RBorow...@gmail.com> wrote:
> Hey OM:
>
> Back that far they been using PLL for FM demod. Only because they
> needed to demod stereo phase, at 15 some Khz. Find the slope in that
> PLL and it'll detect AM. But most osc's in those things are only good
> to 110Mhz, with 10.7 Mhz IF, =A0that'll get you to 120.7Mhz You just
> can't make the capacitance of the circuit go away with a coil.
> If you are lucky the airport your near will be within 108 to 120.7 Mhz
>
> You might as well just build a converter, like back in the day when FM
> first came out they used a converter to take 88 to 108 MHz and put it
> on the AM =A0band. All you did was plug the box into the antenna of your
> AM car radio and viola' FM and with a reverb you could even simulate
> stereo. That was b4 8 track tape decks.
>
> Heck I made a living making and selling a converter for police band
> 453Mhz to AM radio band you could actually tune 4 police channels in
> the Detroit, MI USA area with the converter and any AM radio. We used
> a CB crystal for the oscillator multiplied it up to 452 Mhz and viola'
> police band on any AM radio. the converter was the size of a pack of
> cigarettes.
>
> This link will give you an idea now a days things are a lot easier:http:/=
/tinyurl.com/qwk9pw
>
> 73 OM
>
> de n8zu
>
> On May 14, 8:41=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
>
>
> > On May 14, 8:24=A0pm, dpl...@radagast.org (Dave Platt) wrote:
>
> > > In article <gui99d0...@news5.newsguy.com>,
> > > Bill M =A0<radioex...@geemail.com> wrote:
>
> > > >> Also, if I remember correctly, aircraft use AM in the 108-136 MHz =
range. =A0
> > > >> So modifying the 88-108 MHz FM portion of the receiver wouldn't wo=
rk. =A0
> > > >Doesn't really matter much since you can slope tune it.
>
> > > IIRC, slope tuning can be used to allow an AM receiver to demodulate
> > > FM (albeit somewhat crudely).
>
> > > Does it work in reverse? =A0Can you offset-tune an FM receiver, and g=
et
> > > its discriminator to demodulate an AM carrier-and-sidebands?
>
> > > Seems to me that this wouldn't necessarily work... the
> > > huge-amounts-of-gain-and-then-clip-the-result architecture of an FM's
> > > IF strip is going to equalize out the amplitude variations in the AM
> > > signal pretty effectively, won't it?
>
> > > --
> > > Dave Platt <dpl...@radagast.org> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 AE6EO
> > > Friends of Jade Warrior home page: =A0http://www.radagast.org/jade-wa=
rrior
> > > =A0 I do _not_ wish to receive unsolicited commercial email, and I wi=
ll
> > > =A0 =A0 =A0boycott any company which has the gall to send me such ads=
!
>
> > If an FM radio has a decent amount of limiting forget about receiving
> > FM but if the limiting can be removed or it doesnt have too much you
> > can receive AM on an FM receiver thought it may be fairly distored but
> > it most likely will be copyable. For example I have an ICOM two meter
> > FM =A0transceiver that =A0will tune the VHF aircraft frequencies. Sorry
> > but I forget the model # at present I bought it about 15 years ago and
> > havent tused it in 10 years.
>
> > Jimmie- Hide quoted text -
>
> - Show quoted text -

I remember when those things were around. There was a group of my
friends who like to do a little street racing so we used it to keep up
with where the police were. We also used CB radio to talk to each
other. When we found out the police were on to us planing races on CB
we got where we would pass the mike around and pretend like we were
having a race and watch them run all over town. The things we had to
do back then to keep intertained.


Jimmie


From -3015223036120496657
X-Google-Thread: 241b302a50,1845b57d5fe6b6e5
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
From: "Dan Valdez" <dval5@yahoo.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <4a086abc@x-privat.org> <7a5421ab-79a2-4005-99f9-
```

```
e6a812081d17@b1g2000vbc.googlegroups.com> <gukl5r$bqb$2@news.mixmin.net>
Subject: Re: Linear Amplifier Plans 1-16 Pill On DVD
Date: Fri, 15 May 2009 19:08:59 -0400
Lines: 70
Organization: soft rock
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
NNTP-Posting-Host: $$5jnnqhingh7l64.newsfeed.x-privat.org
Message-ID: <4a0df615@x-privat.org>
X-Authenticated-User: $$q3_o_tx91q7xfh$rfsj2gd6
X-Complaints-To: abuse@x-privat.org
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!feeder.news-
service.com!news-out2.kabelfoon.nl!newsfeed.kabelfoon.nl!bandi.nntp.kabelfoon.nl!
x-privat.org!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.equipment:1545
rec.radio.amateur.homebrew:2706


"Roger & Suzanne Nair" <r&snair@lycos.com> wrote in message
news:gukl5r$bqb$2@news.mixmin.net...
>
> "KD8IMG, Robert Trendel, is a twice convicted stalker of women."
> <mopeyzakween@yahoo.com> wrote in message
> news:7a5421ab-79a2-4005-99f9-e6a812081d17@b1g2000vbc.googlegroups.com...
> On May 11, 2:13 pm, "kc8qjp" <cris...@hotmail.com> wrote:
>> This is the DVD every CB or Ham Radio Operator has been looking for who
>> likes to build their own Amplifiers.
>>
>> 1 to 16 Pill AMP Designs...................
>>
>> http://cgi.ebay.com/Linear-Amplifier-Plans-1-16-Pill-On-DVD_W0QQitemZ...
>>
>> Description
>>
>> Item Specifics - Item Condition
>> Condition: New
>>
>> This is the DVD every CB or Ham Radio Operator has been
>> looking for who likes to build their own Amplifiers.
>>
>> 1 to 16 Pill AMP Designs
>>
>> Step by Step directions
>>
>> Full Schematics
>>
>> Full Color Pics of step by step build of each Box 1-16
>> pill
>>
>> Full Parts List for each Design
```

~~~~
>>
>> And most important were to by all the parts you need is
>> included.
>>
>> This DVD makes it very easy for the Novice to build their
>> Own Box
>>
>> This is just plans we are not selling anything but plans
>> on how to build these units and its for Educational Purpose only.
>>
>> No Returns or Money back.Each DVD is checked before they
>> are shipped to make sure they work 100%
>>
>> begin 666 s.gif
>> M1TE&.#EA`0`!`)'_`/___P```,# P ```"'Y! $```(`+ `````!``$```("
>> $5 $`.P``
>> `
>> end
>
>> The poster of this message is moparholic at hotmail.com...he is
>> forging a female ham's callsign
>>
>>
> Who in their right mind would want to pretend to be kc8qjp crisco kathy???
>
> http://wwwcsif.cs.ucdavis.edu/~loewen/fat-woman.jpg
>
>  I don't want her
>  you can have her
>  she's too fat
>  for me
>
>
>
Is kc8qjp out of prison again?





From -3483119435086573844
X-Google-Thread: 241b302a50,d1d9ce75d7f5b5bc,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: GERMAN,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.249.MISMATCH!transit3.readnews.com!news-xxxfer.readnews.com!news-
out.readnews.com!postnews3.readnews.com!not-for-mail
Subject: Led Lcd Hdtv
From: Accardo@tish.com
Newsgroups: rec.radio.amateur.homebrew
Date: Monday, 18 May 09 8:24:46 GMT
Lines: 211
~~~~

```
Message-ID: <4a10f138$0$25012$586e9bf6@usenetnow.com>
NNTP-Posting-Host: ee5ef616.usenetnow.com
X-Trace: DXC=<^ODLoe:<UGW@GE`WYgjVAHfJNUg^G:>LT[lX>L[ToHElOmEM6D?
=mAM[\eaA<O5IFG\E;Pmdf@`G:9M51QHjRONK`:<[oGViHB
X-Complaints-To: abuse@usenetnow.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:2707
```

Samsung UN55B7000 55-Inch 1080p 120Hz LED HDTV
Price:$3,799.99
Image: http://bestdealfinder.us/image.php?id=B001UHMVR2
Best deal: http://bestdealfinder.us/index.php?id=B001UHMVR2

Samsung UN40B7000 40-Inch 1080p 120Hz LED HDTV
Price:$2,499.99
Image: http://bestdealfinder.us/image.php?id=B001UHMVEU
Best deal: http://bestdealfinder.us/index.php?id=B001UHMVEU

Samsung UN55B6000 55-Inch 1080p 120Hz LED HDTV
Price:$3,599.99
Image: http://bestdealfinder.us/image.php?id=B001UHMVDQ
Best deal: http://bestdealfinder.us/index.php?id=B001UHMVDQ

Samsung LN55B650 55-Inch 1080p 120 Hz LCD HDTV with Red Touch of Color
Price:$2,999.99
Image: http://bestdealfinder.us/image.php?id=B001WHICF0
Best deal: http://bestdealfinder.us/index.php?id=B001WHICF0

Samsung UN46B6000 46-Inch 1080p 120Hz LED HDTV
Price:$2,799.99
Image: http://bestdealfinder.us/image.php?id=B001UHMVC2
Best deal: http://bestdealfinder.us/index.php?id=B001UHMVC2

Toshiba REGZA 42ZV650U 42-Inch 1080p LCD HDTV with ClearScan 240, Black
Price:$1,299.99
Image: http://bestdealfinder.us/image.php?id=B001TOD3J6
Best deal: http://bestdealfinder.us/index.php?id=B001TOD3J6

Sony Bravia XBR KDL-46XBR8 46-Inch 1080p 120Hz Triluminos LED LCD HDTV
Price:$3,999.99
Image: http://bestdealfinder.us/image.php?id=B001GIPMNU
Best deal: http://bestdealfinder.us/index.php?id=B001GIPMNU

Toshiba REGZA 47ZV650U 47-Inch 1080p LCD HDTV with ClearScan 240, Black
Price:$1,699.99
Image: http://bestdealfinder.us/image.php?id=B001TOD3JG
Best deal: http://bestdealfinder.us/index.php?id=B001TOD3JG

Sony Bravia XBR KDL-55XBR8 55-Inch 1080p 120Hz Triluminos LED LCD HDTV
Price:$5,499.99
Image: http://bestdealfinder.us/image.php?id=B001GIPMO4
Best deal: http://bestdealfinder.us/index.php?id=B001GIPMO4

Samsung LN55A950 55-Inch Touch of Color 1080p 120 Hz LCD HDTV
Price:$4,999.99
Image: http://bestdealfinder.us/image.php?id=B001DT0LSI
Best deal: http://bestdealfinder.us/index.php?id=B001DT0LSI

Samsung UN55B7000 55-Inch 1080p 120Hz LED HDTV
Price:$3,799.99
Image: http://bestdealfinder.us/image.php?id=B001UHMVR2
Best deal: http://bestdealfinder.us/index.php?id=B001UHMVR2

Samsung UN40B7000 40-Inch 1080p 120Hz LED HDTV
Price:$2,499.99
Image: http://bestdealfinder.us/image.php?id=B001UHMVEU
Best deal: http://bestdealfinder.us/index.php?id=B001UHMVEU

Samsung UN55B6000 55-Inch 1080p 120Hz LED HDTV
Price:$3,599.99
Image: http://bestdealfinder.us/image.php?id=B001UHMVDQ
Best deal: http://bestdealfinder.us/index.php?id=B001UHMVDQ

Samsung LN55B650 55-Inch 1080p 120 Hz LCD HDTV with Red Touch of Color
Price:$2,999.99
Image: http://bestdealfinder.us/image.php?id=B001WHICF0
Best deal: http://bestdealfinder.us/index.php?id=B001WHICF0

Samsung UN46B6000 46-Inch 1080p 120Hz LED HDTV

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Image: http://bestdealfinder.us/image.php?id=B001UHMVC2
Best deal: http://bestdealfinder.us/index.php?id=B001UHMVC2

Toshiba REGZA 42ZV650U 42-Inch 1080p LCD HDTV with ClearScan 240, Black
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Image: http://bestdealfinder.us/image.php?id=B001TOD3J6
Best deal: http://bestdealfinder.us/index.php?id=B001TOD3J6

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Price:$3,999.99
Image: http://bestdealfinder.us/image.php?id=B001GIPMNU
Best deal: http://bestdealfinder.us/index.php?id=B001GIPMNU

Toshiba REGZA 47ZV650U 47-Inch 1080p LCD HDTV with ClearScan 240, Black
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Price:$5,499.99
Image: http://bestdealfinder.us/image.php?id=B001GIPMO4
Best deal: http://bestdealfinder.us/index.php?id=B001GIPMO4

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Image: http://bestdealfinder.us/image.php?id=B001DT0LSI
Best deal: http://bestdealfinder.us/index.php?id=B001DT0LSI

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Samsung UN55B6000 55-Inch 1080p 120Hz LED HDTV
Price:$3,599.99
Image: http://bestdealfinder.us/image.php?id=B001UHMVDQ
Best deal: http://bestdealfinder.us/index.php?id=B001UHMVDQ

Samsung LN55B650 55-Inch 1080p 120 Hz LCD HDTV with Red Touch of Color
Price:$2,999.99
Image: http://bestdealfinder.us/image.php?id=B001WHICF0
Best deal: http://bestdealfinder.us/index.php?id=B001WHICF0

Samsung UN46B6000 46-Inch 1080p 120Hz LED HDTV
Price:$2,799.99
Image: http://bestdealfinder.us/image.php?id=B001UHMVC2
Best deal: http://bestdealfinder.us/index.php?id=B001UHMVC2

Toshiba REGZA 42ZV650U 42-Inch 1080p LCD HDTV with ClearScan 240, Black
Price:$1,299.99
Image: http://bestdealfinder.us/image.php?id=B001TOD3J6
Best deal: http://bestdealfinder.us/index.php?id=B001TOD3J6

Sony Bravia XBR KDL-46XBR8 46-Inch 1080p 120Hz Triluminos LED LCD HDTV
Price:$3,999.99
Image: http://bestdealfinder.us/image.php?id=B001GIPMNU
Best deal: http://bestdealfinder.us/index.php?id=B001GIPMNU

Toshiba REGZA 47ZV650U 47-Inch 1080p LCD HDTV with ClearScan 240, Black
Price:$1,699.99
Image: http://bestdealfinder.us/image.php?id=B001TOD3JG
Best deal: http://bestdealfinder.us/index.php?id=B001TOD3JG

Sony Bravia XBR KDL-55XBR8 55-Inch 1080p 120Hz Triluminos LED LCD HDTV
Price:$5,499.99
Image: http://bestdealfinder.us/image.php?id=B001GIPMO4
Best deal: http://bestdealfinder.us/index.php?id=B001GIPMO4

Samsung LN55A950 55-Inch Touch of Color 1080p 120 Hz LCD HDTV
Price:$4,999.99

Image: http://bestdealfinder.us/image.php?id=B001DT0LSI
Best deal: http://bestdealfinder.us/index.php?id=B001DT0LSI

From -4687084058357651632
X-Google-Thread: 241b302a50,651f2971e49d4555,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!291cd109!not-for-mail
From: alchazz <no.spam@wanted.com>
Subject: 6 to 1 balun design
Newsgroups: rec.radio.amateur.homebrew
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 22
Message-ID: <okdQl.1761$wR5.875@nwrddc02.gnilink.net>
Date: Mon, 18 May 2009 13:24:36 GMT
NNTP-Posting-Host: 173.76.115.36
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1242653076 173.76.115.36 (Mon, 18 May 2009 09:24:36 EDT)
NNTP-Posting-Date: Mon, 18 May 2009 09:24:36 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2708

I am looking for a 6 to 1 balun, 300 ohms balanced to 50 ohms coax. I don't need one that handles transmitter power as I am only using it for a receiving antenna.

I have on hand several hundred feet of 50 ohm coax, RG58 modified (IEEE 802.3). I want to use it to connect my 300 ohm TV dipole antenna in my attic to my HDTV in the basement. And, of course, I would need a 50 ohm to 75 ohm match at the HDTV.

We only watch over-the-air TV. Why? Because I live within 2 miles of three 1000 ft TV towers. In fact, the dipole in the basement works quite well. But I do get dropouts during storms; go figure. I get 17 channels for free, so why go cable or FIOS. Nothing worthwhile there anyway.

So can someone point me to a good site for balun design. I've done the Google searches, but all that I find seem to be for high power applications.

Any help would be appreciated.

```
Al



From 967624614086496892
X-Google-Thread: 241b302a50,651f2971e49d4555
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news6
From: Bill M <radioexray@geemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6 to 1 balun design
Date: Mon, 18 May 2009 09:55:31 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 36
Message-ID: <gurpcm0h8j@news6.newsguy.com>
References: <okdQl.1761$wR5.875@nwrddc02.gnilink.net>
NNTP-Posting-Host: p6bc1065fd589331b9f313d669ee6fe67867c807adc513a01.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <okdQl.1761$wR5.875@nwrddc02.gnilink.net>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2709

alchazz wrote:
> I am looking for a 6 to 1 balun, 300 ohms balanced to 50 ohms coax. I
> don't need one that handles transmitter power as I am only using it for a
> receiving antenna.
>
> I have on hand several hundred feet of 50 ohm coax, RG58 modified (IEEE
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>
> We only watch over-the-air TV. Why? Because I live within 2 miles of
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> well. But I do get dropouts during storms; go figure. I get 17 channels
> for free, so why go cable or FIOS. Nothing worthwhile there anyway.
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> Google searches, but all that I find seem to be for high power
> applications.
>
> Any help would be appreciated.
>
> Al
>
```

Have you tried the 50 ohm cable directly (with a 4:1 xfmr at the dipole)
to see how it works? The 300 ohms for the dipole, etc only apply at one
single frequency and with signals that strong there really shouldn't be
an issue with additional loss. Reflections will not show up visibly
with digital tv.

Part of the issue here is winding the balun and set transformer at UHF
frequencies. Not impossible to do with inexpensive parts (multicore
ferrites) but I wonder if its really necessary?

GL,
Bill

From 1124302155650888548
X-Google-Thread: 241b302a50,651f2971e49d4555
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!
cyclone01.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf01.ams.highwinds-media.com!newsfe27.ams2.POSTED!7564ea0f!not-for-mail
Message-ID: <bFUWyrHwgXEKFwB3@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6 to 1 balun design
References: <okdQl.1761$wR5.875@nwrddc02.gnilink.net>
 <gurpcm0h8j@news6.newsguy.com>
Lines: 42
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.06-S (<nOWqW23rKPz33PCjahPoeAqojX>)
NNTP-Posting-Host: 80.176.138.122
X-Complaints-To: abuse@demon.net
X-Trace: newsfe27.ams2 1242658868 80.176.138.122 (Mon, 18 May 2009 15:01:08 UTC)
NNTP-Posting-Date: Mon, 18 May 2009 15:01:08 UTC
Date: Mon, 18 May 2009 16:01:04 +0100
Xref: g2news2.google.com rec.radio.amateur.homebrew:2710

In message <gurpcm0h8j@news6.newsguy.com>, Bill M
<radioexray@geemail.com> writes
>alchazz wrote:
>> I am looking for a 6 to 1 balun, 300 ohms balanced to 50 ohms coax. I
>>don't need one that handles transmitter power as I am only using it
>>for a receiving antenna.
>> I have on hand several hundred feet of 50 ohm coax, RG58 modified
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>>antenna in my attic to my HDTV in the basement. And, of course, I
>>would need a 50 ohm to 75 ohm match at the HDTV.
>> We only watch over-the-air TV. Why? Because I live within 2 miles of
>>three 1000 ft TV towers. In fact, the dipole in the basement works
>>quite well. But I do get dropouts during storms; go figure. I get 17
>>channels for free, so why go cable or FIOS. Nothing worthwhile there

```
>>
>>  So can someone point me to a good site for balun design. I've done
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>>applications.
>>  Any help would be appreciated.
>>  Al
>>
>
>Have you tried the 50 ohm cable directly (with a 4:1 xfmr at the
>dipole) to see how it works?  The 300 ohms for the dipole, etc only
>apply at one single frequency and with signals that strong there really
>shouldn't be an issue with additional loss. Reflections will not show
>up visibly with digital tv.
>
>Part of the issue here is winding the balun and set transformer at UHF
>frequencies.  Not impossible to do with inexpensive parts (multicore
>ferrites) but I wonder if its really necessary?
>
>GL,

Yes, just go ahead and use a normal 4:1 off-the-shelf TV/FM balun. They
are only a couple of dollars. The effects of the incorrect impedance
transformation will be negligible, and there's little to be gained by
trying for 'perfection'. If it doesn't work, you've lost virtually
nothing. [Note that, if it doesn't work, it won't be because the ratio
is wrong, or that the coax isn't 75 ohms.
--
Ian



From 9137162851273617971
X-Google-Thread: 241b302a50,651f2971e49d4555
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!291cd109!not-for-
mail
From: alchazz <no.spam@wanted.com>
Subject: Re: 6 to 1 balun design
Newsgroups: rec.radio.amateur.homebrew
References: <okdQl.1761$wR5.875@nwrddc02.gnilink.net>
     <gurpcm0h8j@news6.newsguy.com> <bFUWyrHwgXEKFwB3@g3ohx.demon.co.uk>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 50
Message-ID: <9jfQl.2062$5F2.1434@nwrddc01.gnilink.net>
Date: Mon, 18 May 2009 15:39:49 GMT
NNTP-Posting-Host: 173.76.115.36
X-Complaints-To: abuse@verizon.net
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X-Trace: nwrddc01.gnilink.net 1242661189 173.76.115.36 (Mon, 18 May 2009 11:39:49 EDT)
NNTP-Posting-Date: Mon, 18 May 2009 11:39:49 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2711

On Mon, 18 May 2009 16:01:04 +0100, Ian Jackson wrote:

> In message <gurpcm0h8j@news6.newsguy.com>, Bill M
> <radioexray@geemail.com> writes
>>alchazz wrote:
>>> I am looking for a 6 to 1 balun, 300 ohms balanced to 50 ohms coax. I
>>>don't need one that handles transmitter power as I am only using it for
>>>a receiving antenna.
>>> I have on hand several hundred feet of 50 ohm coax, RG58 modified
>>>(IEEE 802.3). I want to use it to connect my 300 ohm TV dipole antenna
>>>in my attic to my HDTV in the basement. And, of course, I would need a
>>>50 ohm to 75 ohm match at the HDTV.
>>> We only watch over-the-air TV. Why? Because I live within 2 miles of
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>>>the Google searches, but all that I find seem to be for high power
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>>>
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> nothing. [Note that, if it doesn't work, it won't be because the ratio
> is wrong, or that the coax isn't 75 ohms.

Yes, I thought I might try that. You guys are right. It should not be an issue at these signal levels. I have a bunch of the 4:1 baluns that I have gotten from our town's recycling station.

But it is still odd that I get dropouts when I am so close to the towers.

Al

```
From 1195964568112282802
X-Google-Thread: 241b302a50,651f2971e49d4555
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!feed-
me.highwinds-media.com!cyclone03.ams2.highwinds-media.com!news.highwinds-
media.com!npeersf02.ams.highwinds-media.com!newsfe27.ams2.POSTED!7564ea0f!not-for-
mail
Message-ID: <foXHJHO+$YEKFwT$@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6 to 1 balun design
References: <okdQl.1761$wR5.875@nwrddc02.gnilink.net>
 <gurpcm0h8j@news6.newsguy.com> <bFUWyrHwgXEKFwB3@g3ohx.demon.co.uk>
 <9jfQl.2062$5F2.1434@nwrddc01.gnilink.net>
Lines: 62
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.06-S (<XVQqWavfKPTmYPCjnBGoeAFx0S>)
NNTP-Posting-Host: 80.176.138.122
X-Complaints-To: abuse@demon.net
X-Trace: newsfe27.ams2 1242664964 80.176.138.122 (Mon, 18 May 2009 16:42:44 UTC)
NNTP-Posting-Date: Mon, 18 May 2009 16:42:44 UTC
Date: Mon, 18 May 2009 17:42:38 +0100
Xref: g2news2.google.com rec.radio.amateur.homebrew:2712

In message <9jfQl.2062$5F2.1434@nwrddc01.gnilink.net>, alchazz
<no.spam@wanted.com> writes
>On Mon, 18 May 2009 16:01:04 +0100, Ian Jackson wrote:
>
>> In message <gurpcm0h8j@news6.newsguy.com>, Bill M
>> <radioexray@geemail.com> writes
>>>alchazz wrote:
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```

```
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>issue at these signal levels. I have a bunch of the 4:1 baluns that I
>have gotten from our town's recycling station.
>
>But it is still odd that I get dropouts when I am so close to the towers.
>
That might well be due to multiple off-air reflections. Digital TV isn't
totally immune to the problems these cause (but, of course, you don't
see the reflections like you do on analog TV pictures).

Even if you live in an area of high signal strength, it's often
necessary first to get a clean signal from the antenna, which may need
to be a 'high-gain' design in order to reduce reflections. If you've got
too much signal at the TV set, you can always fit in-line attenuators at
the TV input (fixed barrels or variable 'twiddlers').
--
Ian



From -8095070807562627153
X-Google-Thread: 241b302a50,651f2971e49d4555
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 18 May 2009 18:25:59 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
```

References: <okdQl.1761$wR5.875@nwrddc02.gnilink.net>
Subject: Re: 6 to 1 balun design
Date: Mon, 18 May 2009 19:27:09 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <St6dnUaJ8Lgac4zXnZ2dnUVZ_sqdnZ2d@earthlink.com>
Lines: 44
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.225.35.56
X-Trace: sv3-mGw9az/Vo5anG2G0vflHJXYXBjQAoX/oSCgleV2hMV5cbjF6+xzPoGOo0ruaE/
FQWKIRDluE6tIj3DR!2BwTdKitCM6QzO2DrX4IyHRswsNwHVmxBdWit628KOP7HFWz4sq+eHMG/
m6C06mlhHNOBTrjgHt6!vLmlCQ2k8JVQPkzJBLZ2mZd6WX0VzmJcsIWCzQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 3157
Xref: g2news2.google.com rec.radio.amateur.homebrew:2713

"alchazz" <no.spam@wanted.com> wrote in message
news:okdQl.1761$wR5.875@nwrddc02.gnilink.net...
>I am looking for a 6 to 1 balun, 300 ohms balanced to 50 ohms coax. I
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>
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>
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>
> So can someone point me to a good site for balun design. I've done the
> Google searches, but all that I find seem to be for high power
> applications.
>
> Any help would be appreciated.
>
> Al
>

I would not worry about the balun for TV reception. Just use the 300 to 70 ohm one. I think you will get a lot of loss with the rg 58 coax. Go to the rg6 type coax for much lower loss.

I have a 2 meter horizontal M2 antenna up 70 feet and when the cable goes out I connect it to my converter box. It is fed with about 130 feet of low loss rg 8 type coax and from there I go to about 25 feet of rg-6 type to get to the TV. I get about 30 channels with this setup. Probably 30 to 50 miles from most of the transmitters.

It is possible the TV signals are overshooting you. Sometimes almost under a tower can be worse than being out several more miles. As someone mentioned you may be getting multible and causing dropouts. I had a 2 meter antenna in the house hooked on the back of a transceiver and people walking around the room would sometimes cause a dropout and they were not in a direct line from the rig to the repeater.

```
From 4591155930881219282
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o14g2000vbo.googlegroups.com!not-for-
mail
From: Travis <TravisCurrier@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Thanks
Date: Wed, 20 May 2009 10:34:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 20
Message-ID: <713529d1-dae3-4e58-990a-39f477e97cd2@o14g2000vbo.googlegroups.com>
NNTP-Posting-Host: 68.5.44.83
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1242840870 29968 127.0.0.1 (20 May 2009 17:34:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 20 May 2009 17:34:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o14g2000vbo.googlegroups.com; posting-host=68.5.44.83;
     posting-account=DlP5YwoAAABdjm_DJzoZgY1pnXMYD7rO
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.0; en-US)
     AppleWebKit/525.19 (KHTML, like Gecko) Chrome/1.0.154.65 Safari/
525.19,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2714
```

As a former Engineer I want to take the time to share a very good website to this group. They sale RF & Microwave Products. I don't want to spam this group I just thought you might be interested in my products. I will post sales everyonce in a while for you guys.

Please Visit:

www.RFKings.com

And here is a 20% off coupon to say thanks:

Coupon Code: RFK20SALE

Travis Currier
RF Kings
Phone: 949-276-7378
Email:sales@rfkings.com
Website: www.rfkings.com
Location: Laguna Niguel, CA

From -8860154728307538400
X-Google-Thread: 733d321764,59185215652f8bd9,start
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From: "Dr. Barry L. Ornitz" <BLOrnitz48@charter.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb,rec.radio.swap
References: <411b21aa-8e4a-4a65-ba77-04dfde623864@s21g2000vbb.googlegroups.com>
In-Reply-To: <411b21aa-8e4a-4a65-ba77-04dfde623864@s21g2000vbb.googlegroups.com>
Subject: Re: Thanks
Lines: 42
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
X-RFC2646: Format=Flowed; Original
Message-ID: <GiZQl.72958$CN5.15732@newsfe23.iad>
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X-Complaints-To: abuse@charter.net
X-Trace: aeeollfjikkhiokkkenaajobffgmphfmapmalpkfhajdmpkajnibogphckphemgkfllejjhdijjjcbpjijgmcmppglfjkejlpdghhpdpigpgkldmmianeppbkehklimoomehlggnafaaoamp
NNTP-Posting-Date: Wed, 20 May 2009 19:59:34 UTC
Date: Wed, 20 May 2009 15:59:36 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2715 rec.radio.cb:8580 rec.radio.swap:2104

"RF King" <TravisCurrier@gmail.com> wrote in message news:411b21aa-8e4a-4a65-ba77-04dfde623864@s21g2000vbb.googlegroups.com...
> As a former Engineer I want to take the time to share a very good
> website to this group. They sale RF & Microwave Products. I don't want
> to spam this group I just thought you might be interested in my
> products. I will post sales everyonce in a while for you guys.
>
> Please Visit:
>
> www.RFKings.com
>
> And here is a 20% off coupon to say thanks:

>
> Coupon Code: RFK20SALE
>
>
> Travis Currier
> RF Kings
> Phone: 949-276-7378
> Email:sales@rfkings.com
> Website: www.rfkings.com
> Location: Laguna Niguel, CA

He may not want to spam the group but he is more than willing to send spam individually to your email address if he reads it from a posting. He also sent at least seven other identical postings to different newsgroups instead of cross posting. The site he advertises is his. If you get spam, send your complaints to
    abuse@hostmysite.com, groups-abuse@google.com,
and to his posting host abuse@cox.net.
The registrar of his site is Godaddy so you might wish to complain there too. I have already received spam from this jerk before his Usenet postings were sent.

--
I HATE SPAM !
73, Dr. Barry L. Ornitz WA4VZQ
    BLOrnitz48@charter.net

From -6645070743285208377
X-Google-Thread: 241b302a50,651f2971e49d4555
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!z8g2000prd.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6 to 1 balun design
Date: Thu, 21 May 2009 04:12:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 12
Message-ID: <23e7f201-0ee0-4da7-80aa-7a60a46c8b5f@z8g2000prd.googlegroups.com>
References: <okdQl.1761$wR5.875@nwrddc02.gnilink.net>
<St6dnUaJ8Lgac4zXnZ2dnUVZ_sqdnZ2d@earthlink.com>
NNTP-Posting-Host: 76.226.206.226
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1242904359 29842 127.0.0.1 (21 May 2009 11:12:39 GMT)

X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 May 2009 11:12:39 +0000 (UTC)
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Injection-Info: z8g2000prd.googlegroups.com; posting-host=76.226.206.226;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.10)
     Gecko/2009042316 Firefox/3.0.10 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2716

Hey OM:
 A 3:1 mismatch you only lose 25% of the power. And that's power not
voltage. So with 50 to 75 ohms you are not going to lose much. And you
need plenty of signal so there won't be any pixelization. And if you
don't use a balun at all: you have the shield of your coax as an
antenna too. I say connect direct and forget about it.

There's only 2 possibles; either you don't get enough signal or you
do. Those are better odds than the lottery.

73 OM
de n8zu

From 4040750039653931712
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X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!feeder.news-service.com!cyclone02.ams2.highwinds-media.com!news.highwinds-media.com!npeersf02.ams.highwinds-media.com!newsfe21.ams2.POSTED!7564ea0f!not-for-mail
Message-ID: <U3h1uyAjZUFKFwai@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6 to 1 balun design
References: <okdQl.1761$wR5.875@nwrddc02.gnilink.net>
 <St6dnUaJ8Lgac4zXnZ2dnUVZ_sqdnZ2d@earthlink.com>
 <23e7f201-0ee0-4da7-80aa-7a60a46c8b5f@z8g2000prd.googlegroups.com>
Lines: 34
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User-Agent: Turnpike/6.06-S (<bafqWma3KPDh2MCjfdJoew5NBZ>)
NNTP-Posting-Host: 80.176.138.122
X-Complaints-To: abuse@demon.net
X-Trace: newsfe21.ams2 1242908269 80.176.138.122 (Thu, 21 May 2009 12:17:49 UTC)
NNTP-Posting-Date: Thu, 21 May 2009 12:17:49 UTC
Date: Thu, 21 May 2009 13:17:39 +0100
Xref: g2news2.google.com rec.radio.amateur.homebrew:2717

In message
<23e7f201-0ee0-4da7-80aa-7a60a46c8b5f@z8g2000prd.googlegroups.com>,

raypsi <RBorowiak@gmail.com> writes
>Hey OM:
> A 3:1 mismatch you only lose 25% of the power. And that's power not
>voltage.

Where does the 3:1 SWR come from? With the off-the-shelf $2 300:75 ohm
balun, connected to a 50 ohm feeder, the mismatch will be only 1.5:1.

>So with 50 to 75 ohms you are not going to lose much.

Exactly.

>And you
>need plenty of signal so there won't be any pixelization.

>And if you
>don't use a balun at all: you have the shield of your coax as an
>antenna too.

Arrrrrhg!!!!. That's NOT a situation you want to have!

>I say connect direct and forget about it.
>
And I say FIT IT and forget about it! It's so easy to do things
'properly'.

>There's only 2 possibles; either you don't get enough signal or you
>do. Those are better odds than the lottery.
>
You're correct about this bit!
--
Ian

From 5939272815277774832
X-Google-Thread: 241b302a50,5fded03d2b172fcf,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
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198.186.194.249.MISMATCH!transit3.readnews.com!news-xxxfer.readnews.com!news-
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nnrp3.asbnva.usenetmonster.com!not-for-mail
Subject: Tissot Men's TXL Dress Watch #T60.1.581.52
From: Aron@nikole.com
Newsgroups: rec.radio.amateur.homebrew
Date: Thursday, 21 May 09 7:52:28 GMT
Lines: 22
Message-ID: <4a1586c3$0$4897$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
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Xref: g2news2.google.com rec.radio.amateur.homebrew:2718
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Price:$450.00
Image: http://bestdeallocator.info/image.php?id=B000FBVN9G
Best deal: http://bestdeallocator.info/index.php?id=B000FBVN9G

From Tissot, this T-Trend men's watch is rugged and masculine in high performance stainless steel. Handsome satin finished steel case is presented on the emblematic link bracelet in brushed and polished steel. Polished, raised T center links on a satin finished background encircle the bracelet. Fully integrated bezel frames the black dial with silver colored hands, Arabic numeral and baton hour markers. Water resistant.

Complement your most stylish business suits with the modernly styled Tissot TXL men's stainless steel dress watch. This mid-sized watch features a squarish, tank-style watch case (with wide, polished track-like sides) that measures 32mm (1.25 inches) wide. It has a classic black dial face that's accented with silver stick markers, Arabic numerals at the quarter hours, thin silver baton hands (with seconds hand), and a date function at 6 o'clock. The vertical link stainless steel bracelet band is joined by a foldover safety clasp. Other features include a scratch-resistant sapphire crystal and water resistance to 30 meters (99 feet). About Tissot For more than 150 years, Tissot has embodied the innovation and tradition of Swiss watch-making. Based in the Neuchâtel area of the Jura Mountains, in Le Locle, Switzerland, Charles-Félicien Tissot and his son Charles-Emile created the watch making company Tissot in 1853. Whether in the technology of its movements, in the research for special materials or in the very functions of the watch itself, Tissot's engineers and watchmakers have developed pioneering timepieces over the years. A member of the Swatch Group since 1985, Tissot watches are available in over 140 countries around the world.   Tissot uses the best movements (from ETA SA Manufacture Horlogère Suisse), the highest quality materials (316L steel, 18K gold, titanium) and scratchproof glasses (sapphire crystal--at least 2500 Vickers). The company's timepieces have also been chosen as official timekeepers for world championships in cycling, motorcycling, fencing and ice hockey.

ACCESSORIES:

Tissot Men's T Race Chronograph Watch #T90.4.446.51:http://bestdeallocator.info/index.php?id=B000FBVNAK
Tissot Men's T Sport Titanium Watch #T65.7.581.31:http://bestdeallocator.info/index.php?id=B000FBXRTA

Tissot Men's TXL Dress Watch #T60.1.581.32:http://bestdeallocator.info/index.php?id=B000FBXRSQ

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posts.news.usenetmonster.com!nnrp3.asbnva.usenetmonster.com!not-for-mail
Subject: Bulova Women's Frank Lloyd Wright Willits Leather Strap Watch #96L63
From: Alverson@kayla.com
Newsgroups: rec.radio.amateur.homebrew
Date: Thursday, 21 May 09 8:13:07 GMT
Lines: 27
Message-ID: <4a158b9a$0$4897$ec3e2dad@news.usenetmonster.com>
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Price:$135.00
Image: http://bestdeallocator.info/image.php?id=B000FVC4TY
Best deal: http://bestdeallocator.info/index.php?id=B000FVC4TY

This quite unique and very cheap. I like the two level dial artwork. My only complaint is the strap is slack. I suggest installing a nice alligator strap.
I was very pleased when the watch arrived. It was in the original packaging, and it arrived quickly! The watch looks even more fantastic than in the pictures!

Only thing I was disappointed in is that when I opened the original packaging, it completely fell apart in my hands. I would not have cared if the watch were for myself. However, it is a gift, and I didn't expect to be giving someone something where the box fell apart...
I get compliments on this watch all the time even though I have other watches that cost considerably more
Bulova Ladies and Men?s Strap Collection Watch. This Bulova watch features a black leather strap with Willits white enamel dial. Curved crystal with design based on Ward W. Willits House window. Moisture resistant and stainless steel case. This watch is water resistant to 30 meters/100 feet.
Add a uniquely designed conversation piece to your watch collection with this Willits timepiece from Bulova's Frank Lloyd Wright collection. It's based on an

art glass design from the prairie-style Willits home in Highland Park, Illinois, constructed in 1901. This distinctively tall rectangular watch case emulates a stained glass window from the front of the residence, and it features a white enamel dial with art deco flourishes. The stainless steel case offers a polished finish and an off-center crown. It's matched with a smoothly supple black leather strap. This precise quartz timepiece also features a scratch-resistant mineral crystal and water resistance to 30 meters (99 feet). Frank Lloyd Wright (1867-1959) is recognized as one of the greatest architects of the twentieth century. Using innovations in design and engineering made possible by newly developed technology and materials, his work heralded a new thinking in architecture, stressing "organic" structures in harmony with their natural surroundings.

ACCESSORIES:

Bulova Marine Star_Watch Watch 98G10:http://bestdeallocator.info/index.php?id=B00021ASA4
Bulova Women's Diamond Accented Calendar Watch #98R104:http://bestdeallocator.info/index.php?id=B0018AN6SY
Bulova Women's Diamond Accented Calendar Watch #96R105:http://bestdeallocator.info/index.php?id=B0018AL3XY
Bulova Women's Diamond Accented Watch #98P102:http://bestdeallocator.info/index.php?id=B0018AL366
Bulova Women's Diamond Accented Watch #96R103:http://bestdeallocator.info/index.php?id=B0018AJJEE

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Subject: IWC Men's Ingenieur Chronograph AMG Watch #IW372503
From: Axtman@lindsay.com
Newsgroups: rec.radio.amateur.homebrew
Date: Thursday, 21 May 09 8:29:54 GMT
Lines: 23
Message-ID: <4a158f89$0$4897$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
NNTP-Posting-Host: 4b4046e8.news.usenetmonster.com
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X-Complaints-To: killthespammer@usenetmonster.com
X-Original-Bytes: 4687
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Xref: g2news2.google.com rec.radio.amateur.homebrew:2720

Price:$7,100.00
Image: http://bestdeallocator.info/image.php?id=B000LGFCRE
Best deal: http://bestdeallocator.info/index.php?id=B000LGFCRE

Titanium case and bracelet. Black chronograph dial. Screw-in crown. Sapphire crystal. Integrated shock-absorbing system. 44-hour power reserve. Case diameter 42.5mm. Titanium folding clasp. Automatic movement. Water resistant at 120 meters (440 feet). IWC Ingenieur Chronograph AMG Titanium Mens Watch 3725-03 / 372503 Understated and classic in design, the Ingenieur line of IWC watches continues the 50-year tradition of simplicity of function and high accuracy in timekeeping. Although there used to be an Ingenieur with a stopwatch function, this titanium model is the first to include a chronograph. It features an automatic 79350 calibre chronograph movement, small seconds hand with stop function and a chronograph with a central seconds hand and 30-minute counter. And since the 4 Hz movement is able to display times to an accuracy of one-eighth of a second, the dial includes an outer tachymeter scale for measuring time over distance. The round case and integrated bracelet band are made from solid titanium, which is nearly 50 percent lighter than steel, but 30 percent stronger. It's also particularly resistant to salt water corrosion, as well as hypo-allergenic--perfect for those with metal allergies.   Sublimely designed, this watch integrated the chronograph push buttons into the case and offers a raised bezel with polished highlights and screw-down accents. The black dial offers a patterned center, chrono subdials at the top and bottom, luminous stick markers, small minute indexes, and baton hands (with luminous stripes and seconds hand). Other features include a soft-iron inner case for protection against magnetic fields, anti-reflective sapphire glass crystal, a 31-jewel movement with 28,800 vibrations per hour, 44-hour power reserve, and water resistance to 120 meters (400 feet)--offering protection from accidental splashes as well suitable for swimming, snorkeling, and light recreational diving.   An automatic (or self-winding) watch is fitted with a device (rotor) that automatically winds the spring by using the force of gravity. It needs no battery, but it will stop if you have been physically inactive for an extended period of time--as long as you're moving, the watch will stay powered. Swiss watchmaker Abraham-Louis Perrelet invented the self-winding mechanism in 1770. It worked on the same principle as a modern pedometer, and was designed to wind as the owner walked.   About IWC While founded in Schaffhausen, Switzerland in 1868, the International Watch Company (IWC) was created by an American--Florentine Ariosto Jones. The Jones calibre, the very first movement manufactured by IWC contained a wealth of advanced technical features. These included an elongated index to regulate the balance hairspring and a bimetallic cut balance to compensate for fluctuations in temperature. In 2000, IWC introduced the 5000 calibre, a new automatic mechanical movement with a seven-day power reserve and the legendary winding mechanism of the patented Pellaton system. In the aftermath of World War II, IWC became a company of international scope. Exports to the United States increased and the brand became best known for its specialty watches (now highly prized as collectibles), such as the Mark XI and

Ingenieur--the first automatic IWC with a soft-iron inner case that protected the movement against magnetic fields.

ACCESSORIES:

IWC Men's Ingenieur Chronograph Watch #IW372501:http://bestdeallocator.info/index.php?id=B000LGG3V8
IWC Men's Ingenieur Chronograph AMG Watch #IW372504:http://bestdeallocator.info/index.php?id=B000LGHXFI
IWC Men's Pilot's Mark XV Spitfire Watch #IW325312:http://bestdeallocator.info/index.php?id=B000LGG3Q8
IWC Men's GST Chrono-Rattrapante Watch #IW371523:http://bestdeallocator.info/index.php?id=B000LGDD66

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out.readnews.com!postnews3.readnews.com!posts.news.usenetmonster.com!
nnrp3.asbnva.usenetmonster.com!not-for-mail
Subject: Bissell 3106A Featherweight Lightweight Vacuum
From: Amela@flossie.com
Newsgroups: rec.radio.amateur.homebrew
Date: Friday, 22 May 09 12:41:01 GMT
Lines: 29
Message-ID: <4a15ca64$0$4900$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
NNTP-Posting-Host: 29ec85dd.news.usenetmonster.com
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X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:2721
```

List Price:$24.99
Image: http://bestdeallocator.info/image.php?id=B00008NRU0
Best price found: http://bestdeallocator.info/index.php?id=B00008NRU0

I needed something lightweight to pick up the debris my dogs track in and leave on the hardwood and vinyl flooring downstairs. This is perfect for the purpose. And it's easy to empty. It performs much less well on carpet, but I have a standard vaccum for that. So I'm happy.

This works great on tile floors. The suction has a lot of power and it glides easily, also very lightweight which makes it all faster. Very handy to also be able to quickly pull the bottom rolling part off and have an instant hand vac to fit into crevices and small spaces. The filter cup opens very easily, dumps quick, and the filter itself is easily brushed off. Every other week or so I take the filter off and rinse it with some soap and water and then let it air dry. Its very easy to do as the durable white filter rotates on and off easily.   Sometimes I also add a few drops of my favorite essential oil into the dirt cup after I've emptied it and then when I vacuum my home has the wonderful aroma of the scented oil and it doesn't seem to hurt the plastic or the vacuum in any way! I use 100% pure organic essential oils in it though so I don't know if any other type of artificial or synthetic fragrance oils would work as well.

My last one of these stick vacs quit working after about 10 months of a lot of use, the motor stopped but for the low price that is no problem for me. But my local discount superstore stopped selling this brand and is selling an inferior brand that I already tried and returned. So glad that Amazon is selling these and with free shipping too!

These are really handy for a laundry room, small apartment, an RV, garage and anywhere you need speed vacuuming. Probably not the best for high pile carpet but excellent for low pile carpet, linoleum and tile and can also be used as your car vacuum!

I usually don't write reviews, but I had to for this one!! Because it's so not fair not to write anything about such a wonderful product. I use it for my wood floors and also carpets, works like a charm!! Works better than all those expensive vaccums

Does very well. Have a question. Is it alright to connect this to an extension cord? Cord that is with vac. soooooo short.

This works very well on our tile floors. I imagine that it would work just as well on any hard surface. It's not as easy to move on our carpet, but the hand-held vac on a stick is still great on carpets!

Bissell Featherweight Lightweight Vacuum

A remarkably lightweight cleaning unit, the Featherweight stick vacuum from Bissell offers dual functionality in one slim little machine. Suitable for bare floors, draperies, upholstery, and low-pile carpets, the Featherweight converts easily from a floor vacuum to a hand vacuum and includes a crevice tool for tight corners. Completely bagless, the unit collects debris in a dust cup with a washable cloth filter. When the cup fills up, you just pop it off and empty it. Handy for small areas or anyone who needs a lightweight cleaning tool, the Featherweight stands 44-1/2 inches high and has a 9-1/4-inch nozzle. It comes with an ergonomically designed grip, and Bissell includes a limited one-year warranty.
--Emily Bedard

SIMILAR PRODUCTS:

Bissell 32045 Vacuum Cleaner Filter (2 pack):http://bestdeallocator.info/index.php?id=B000FK9CBI

Bissell 1867-7 Steam Mop Hard-Floor Cleaner, Green Tea:http://

bestdeallocator.info/index.php?id=B000RPVHZU
Proctor Silex K2070H 1-Quart Automatic Electric Kettle, White:http://bestdeallocator.info/index.php?id=B00023XCWS
Bissell 3255 Steam Mop Microfiber Pad Replacement, 2 Pack:http://bestdeallocator.info/index.php?id=B000RPTVAS
Pyrex Storage 10-Piece Set, Clear with Blue Lids:http://bestdeallocator.info/index.php?id=B00005B8K5

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From 1492411614252016609
X-Google-Thread: 241b302a50,1da054305afd44a1,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.249.MISMATCH!transit3.readnews.com!news-xxxfer.readnews.com!
transit4.readnews.com!news-out.readnews.com!postnews3.readnews.com!
posts.news.usenetmonster.com!nnrp3.asbnva.usenetmonster.com!not-for-mail
Subject: Hoover S1156 Sidewinder Hand Vac, Metallic Gold
From: Appolonia@mona.com
Newsgroups: rec.radio.amateur.homebrew
Date: Friday, 22 May 09 1:01:32 GMT
Lines: 29
Message-ID: <4a15cf33$0$4900$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
NNTP-Posting-Host: ec730cf4.news.usenetmonster.com
X-Trace: DXC=D8g6KkKl77nPMmOiSHlUohm>XX`Id5knh`IohDjb_78lmZ@@O^EF>UiAZ;
\FaXd^klE:K>nNX\@laEY=P?Y5YYNf@B3ihebfL;jUaQ06hja9RhV1KWK0]CR>b
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:2722
```

List Price:$40.00
Image: http://bestdeallocator.info/image.php?id=B0000DASAK
Best price found: http://bestdeallocator.info/index.php?id=B0000DASAK

The Hoover S1156 Sidewinder hand vac is easy to handle, has great suction, and not overly noisy (unlike the Dirt Devil it replaced which was noisy and did a poor job of getting up dirt.) Used in my automobile. Cleaned seats beautifully and was strong enough to get grit, sand and small stones off the floor.
I have a great dog that sheds and this vac is fantastic picking up all fur off wood floors and carpeting. Thank the Fur Gods! at Hoover
I love this hand vac. I have used many different ones over the years but this is by far the best. I have two dogs and it works wonders on getting up the dog hair. It makes cleaning easier. I have not found any problems with it at all. You can't go wrong with this purchase.
I purchased the Hoover Sidewinder a little over a month ago and it never ceases to

impress me. I had originally bought it to take care of the cat hair on my dark blue furniture (which made it look like I had NO cats afterward) but then I used it to vacuum my area rugs, once again they look like new. Finally a few days ago I decided to use it to Vacuum my car and could not believe how great it did! The swiveling head makes getting into nooks and crannies a breeze, it has a long cord so you don't have to move to a different outlet every few feet and the rotating brush picks up the toughest of pet hair. No disappointments here and the price was very reasonable.

I liked this vac, as soon as we fired it up... great suction, and the beater brushes worked great picking the crud up off the carpet, or the furniture. However, much like the Dirt Devil hand vacs, they have a very poor design using a belt-driven beater brush, which is very prone to problems when hair gets around it, and when the belt warms up. The belt stretches out, and that with any hair on the brush, creates too much friction, preventing the brush from spinning. Someone needs to design something a little better to keep the brushes spinning. Or a better belt drive... something with a little strength to it... and not so prone to stretching. I ended up 'fattening up' the drive post that the belt goes around, with a little duct tape, which seems to have taken up the slip that the stretching caused. This got the vac back working like new... and it really did a great job cleaning. I do like the removeable / reusable bag much better than the Dirt Devil's cheap paper bag inserts.

A Versatile Hand Vac for Home & Shop - Exclusive 90" Swivel Nozzle - Powered Brush Roll - Bagless Design - E-Z Empty Dirt Cup - Washable Filter - 20' Power Cord

Sturdy as a belt sander, the Sidewinder Hand Vac is an all-purpose household tool with a cleverly helpful feature--a nozzle that swivels 90 degrees to provide more flexibility in vacuuming hard-to-reach spots. This is helpful in vacuuming out tricky spaces, such as between moldings and doorjambs, or the concavities of recessed windows. The Sidewinder also has a powered brush roll, especially useful on rugs or fabrics.   The Sidewinder has a 20-foot power cord, a workable length for most any household room. The body of the hand vacuum is made of sturdy glitter-gold plastic, and the transparent collector receptacle end is a darker, smoky-gray in color. Its removable filter is made of a long-life, washable plastic weave. The ergonomically molded handle is designed so that the on/off button is in a comfortable position to be used with one hand. Cleaning the Sidewinder Hand Vac is very easy. The collector cup detaches for easy emptying, and the filter is removable and can be washed in warm, soapy water. (The filter should be entirely dry before being replaced in the vacuum cleaner.) The motor/handle section is not immersible, and it is not advisable to put any of the components in the dishwasher. The Sidewinder measures 13 by 6 by 8-1/4 inches. Hoover products include a one-year warranty against defects and come with a detailed instruction booklet. --Garland Withers

SIMILAR PRODUCTS:

Eureka 71B Hand-Held Vacuum:http://bestdeallocator.info/index.php?id=B0006HUYGM
Hoover S2220 Flair Bagless Upright Stick Vacuum with Power Nozzle:http://bestdeallocator.info/index.php?id=B00020BQGK
Hoover S1120 Hand Held Wet/Dry Hand Vacuum Cleaner:http://bestdeallocator.info/index.php?id=B000981H6O

 Panasonic ES2206AC Rechargeable Ladies Wet/Dry Shaver:http://bestdeallocator.info/index.php?id=B0002D5Y60
 Presto 05420 FryDaddy Electric Deep Fryer:http://bestdeallocator.info/index.php?id=B00005KB37

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From 4012919164570079132
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 21 May 2009 18:07:28 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <okdQl.1761$wR5.875@nwrddc02.gnilink.net>
<St6dnUaJ8Lgac4zXnZ2dnUVZ_sqdnZ2d@earthlink.com>
<23e7f201-0ee0-4da7-80aa-7a60a46c8b5f@z8g2000prd.googlegroups.com>
<U3h1uyAjZUFKFwai@g3ohx.demon.co.uk>
Subject: Re: 6 to 1 balun design
Date: Thu, 21 May 2009 19:08:40 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <a4KdndaikcMtQ4jXnZ2dnUVZ_sednZ2d@earthlink.com>
Lines: 19
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NNTP-Posting-Host: 24.225.35.56
X-Trace: sv3-Yr6xX9WdyA08U2+tjLXJWzR4fhmRpivQRDieu1OCRBuUQsD6q/
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eCqSQHUeEFhtSrS34Bt70JDCgYYFxDtiC950e7kUOf5NVBtswjg3n31AG+!
PvWCFxLppyZr8ApAmxI9mR+BveyRWkF3X31KhQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1962
Xref: g2news2.google.com rec.radio.amateur.homebrew:2723
```

"Ian Jackson" <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote in message
news:U3h1uyAjZUFKFwai@g3ohx.demon.co.uk...
> In message
> <23e7f201-0ee0-4da7-80aa-7a60a46c8b5f@z8g2000prd.googlegroups.com>, raypsi
> <RBorowiak@gmail.com> writes
>>Hey OM:
>> A 3:1 mismatch you only lose 25% of the power. And that's power not
>>voltage.
>
> Where does the 3:1 SWR come from? With the off-the-shelf $2 300:75 ohm
> balun, connected to a 50 ohm feeder, the mismatch will be only 1.5:1.
>

A 3:1 swr does not really equate to a 25% power loss. I think it was the ARRL that published a chart that at first glance may make it look like that.

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From -2704394333227640530
X-Google-Thread: 241b302a50,651f2971e49d4555
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X-Google-NewGroupId: yes
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feeder2.news.saunalahti.fi!uutiset.elisa.fi!7564ea0f!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6 to 1 balun design
Message-ID: <hf8c15lkcu0q9l4dk2e75pqpsou1jsbhre@4ax.com>
References: <okdQl.1761$wR5.875@nwrddc02.gnilink.net>
<St6dnUaJ8Lgac4zXnZ2dnUVZ_sqdnZ2d@earthlink.com>
<23e7f201-0ee0-4da7-80aa-7a60a46c8b5f@z8g2000prd.googlegroups.com>
<U3h1uyAjZUFKFwai@g3ohx.demon.co.uk>
<a4KdndaikcMtQ4jXnZ2dnUVZ_sednZ2d@earthlink.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 30
Date: Fri, 22 May 2009 07:16:10 +0300
NNTP-Posting-Host: 85.77.235.123
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1242965767 85.77.235.123 (Fri, 22 May 2009 07:16:07
EEST)
NNTP-Posting-Date: Fri, 22 May 2009 07:16:07 EEST
Organization: Elisa Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:2724
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On Thu, 21 May 2009 19:08:40 -0500, "Ralph Mowery"
<rmowery28146@earthlink.net> wrote:

>
>A 3:1 swr does not really equate to a 25% power loss. I think it was the
>ARRL that published a chart that at first glance may make it look like
>that.

In a lossless missmatched feeder, part of power is reflected back at each end, while a portion is delivered to the antenna and radiated into space and finally after many reflections most of the power is finally radiated into space.

The localized voltage and current peaks can be an issue both in the feeder or transmitter.

However, with a lossy feeder, some power is attenuated i.e. converted to heat on the initial path to the antenna, also when part of the power is reflected from the mismatch at the antenna, the reflected wave will suffer from the attenuation and again after reflecting from the other end, it will again suffer some attenuation. After several reflections, quite a lot of the initially reflected power is converted to heat.

When looking at the ARRL charts, to get a 25 % or -1.25 dB power loss, the feeder loss when matched would be 0.8 dB and the additional loss due to the 3:1 SWR would be about 0.4 dB.

Paul OH3LWR

From 6709267177026389591
X-Google-Thread: 241b302a50,651f2971e49d4555
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
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Message-ID: <M2jjOqBoXlFKFwJg@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6 to 1 balun design
References: <okdQl.1761$wR5.875@nwrddc02.gnilink.net>
 <St6dnUaJ8Lgac4zXnZ2dnUVZ_sqdnZ2d@earthlink.com>
 <23e7f201-0ee0-4da7-80aa-7a60a46c8b5f@z8g2000prd.googlegroups.com>
 <U3h1uyAjZUFKFwai@g3ohx.demon.co.uk>
 <a4KdndaikcMtQ4jXnZ2dnUVZ_sednZ2d@earthlink.com>
 <hf8c15lkcu0q9l4dk2e75pqpsou1jsbhre@4ax.com>
Lines: 37
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.06-S (<nZaqWqHvKPzg7PCjrhIoeA2Zfn>)
NNTP-Posting-Host: 80.176.138.122
X-Complaints-To: abuse@demon.net
X-Trace: newsfe10.ams2 1242977774 80.176.138.122 (Fri, 22 May 2009 07:36:14 UTC)
NNTP-Posting-Date: Fri, 22 May 2009 07:36:14 UTC
Date: Fri, 22 May 2009 08:36:08 +0100
Xref: g2news2.google.com rec.radio.amateur.homebrew:2725

In message <hf8c15lkcu0q9l4dk2e75pqpsou1jsbhre@4ax.com>, Paul Keinanen <keinanen@sci.fi> writes
>On Thu, 21 May 2009 19:08:40 -0500, "Ralph Mowery"
><rmowery28146@earthlink.net> wrote:
>
>>
>>A 3:1 swr does not really equate to a 25% power loss. I think it was the

>>ARRL that published a chart that at first glance may make it look like
>>that.
>
>In a lossless missmatched feeder, part of power is reflected back at
>each end, while a portion is delivered to the antenna and radiated
>into space and finally after many reflections most of the power is
>finally radiated into space.
>
>The localized voltage and current peaks can be an issue both in the
>feeder or transmitter.
>
>However, with a lossy feeder, some power is attenuated i.e. converted
>to heat on the initial path to the antenna, also when part of the
>power is reflected from the mismatch at the antenna, the reflected
>wave will suffer from the attenuation and again after reflecting from
>the other end, it will again suffer some attenuation. After several
>reflections, quite a lot of the initially reflected power is converted
>to heat.
>
>When looking at the ARRL charts, to get a 25 % or -1.25 dB power loss,
>the feeder loss when matched would be 0.8 dB and the additional loss
>due to the 3:1 SWR would be about 0.4 dB.
>

But where has this mythical "3:1" SWR come from? I can't see what it has
to do with connecting a 300 ohm antenna (in the attic, and with or
without a matching transformer / balun) to a long run of 50 ohm coax
which eventually connects to a 75 ohm TV set (in the basement). I've
obviously missed something. Please would somebody explain!

--
Ian

```
From 1243032418223352O7
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X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
newshosting.com!198.186.194.249.MISMATCH!transit3.readnews.com!
textspool1.readnews.com!news-out.readnews.com!postnews3.readnews.com!
posts.news.usenetmonster.com!nnrp3.asbnva.usenetmonster.com!not-for-mail
Subject: Magnetic Tool Holder
From: Auker@emmie.com
Newsgroups: rec.radio.amateur.homebrew
Date: Friday, 22 May 09 11:08:37 GMT
Lines: 24
Message-ID: <4a165d71$0$4905$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
NNTP-Posting-Host: 6906957b.news.usenetmonster.com
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DXC=_d>SZdo6G7MW[dhGn>4:XOm>XX`Id5knH`IohDjb_78L;>SBGO_60bJdodn1Y5X\nDm>XX`Id5knH`
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```

X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:2726

Price:$17.99
Image: http://discountadvisor.info/image.php?id=B001DSXDLQ
Best deal: http://discountadvisor.info/index.php?id=B001DSXDLQ

Yes, this type of thing works, and might be OK for wrenches or pliers that never get used near electronic equipment. But do not use these for tools that might ever come near a computer, even if you own a degausser. And whatever you do, DO NOT hold edge-tools (like chisels or saws) with a bare metal magnet as shown in the photo.
Magnetic tool holder holds metal tools, keeping them in sight and on hand. No more rummaging through a crowded drawer. Keeps your chisel edges sharp and nick-free. Great for wrenches, chisels, screwdrivers, turning tools and more. 2" Wide X 18" Long.

ACCESSORIES:

Painters Pyramids, 10-Pack:http://discountadvisor.info/index.php?id=B001BM2DFQ
Titebond III Ultimate Wood Glue, 16 oz.:http://discountadvisor.info/index.php?id=B001DSXGKE
Rockler Universal Fence Clamps:http://discountadvisor.info/index.php?id=B001DSZFMG
Titebond III Ultimate Wood Glue, 4 oz.:http://discountadvisor.info/index.php?id=B001DT17LI
Rockler Thin Rip Tablesaw Jig:http://discountadvisor.info/index.php?id=B001DT1VMS

From -5481356979331597O1
X-Google-Thread: 241b302a50,874ede494f3d3289,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
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Subject: Hobart 770129 Oxy/Acet,Goggle - Flip Front- 50mm Eye Cup Shade5
From: Ahal@shirley.com
Newsgroups: rec.radio.amateur.homebrew
Date: Friday, 22 May 09 12:11:30 GMT

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Lines: 27
Message-ID: <4a166c2e$0$4905$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
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Xref: g2news2.google.com rec.radio.amateur.homebrew:2727
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Price:$8.99
Image: http://discountadvisor.info/image.php?id=B001FOPXGG
Best deal: http://discountadvisor.info/index.php?id=B001FOPXGG

Okay, there are two groups of folks looking at this item, Steampunk costume folks and welders.

For the welders:
- Well built, inexpensive
- Both the clear and shaded glass were flat and well-attached
- The ventilation on the goggles was especially good

For the steampunk folks:
- The googles themselves are rubber-plastic, would need decoration
- Strap is decidedly modern looking
- There is (safety) text on the lenses
- Look pretty good and are cheap

SIMILAR PRODUCTS:

Dr. Horrible's Sing-Along Blog:http://discountadvisor.info/index.php?id=B001M5UDGS
Hobart 770096 Welding Oxy-Acetylene Goggle - 50mm Eye Cup:http://discountadvisor.info/index.php?id=B0017Z04SK
Pride and Prejudice and Zombies: The Classic Regency Romance - Now with Ultraviolent Zombie Mayhem!:http://discountadvisor.info/index.php?id=1594743347
Norcross Safety Size 11 White Pvc Boot 12" 74928-11:http://discountadvisor.info/index.php?id=B000676YXE
US Forge 108 Shaded #5 Economy Cup Brazing Goggles:http://discountadvisor.info/index.php?id=B0000DD6JC

ACCESSORIES:

Rockwell RK9000 Jawhorse:http://discountadvisor.info/index.php?id=B0018MRUN4

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From -6795279825373107649
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X-Google-Language: ENGLISH,ASCII-7-bit
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news.highwinds-media.com!feed-me.highwinds-media.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!
newshosting.com!novia!transit3.readnews.com!news-xxxfer.readnews.com!news-
out.readnews.com!postnews3.readnews.com!posts.news.usenetmonster.com!
nnrp3.asbnva.usenetmonster.com!not-for-mail
Subject: 2-1/2'' Dust Collection Hose Splicer
From: Addeo@georgeanna.com
Newsgroups: rec.radio.amateur.homebrew
Date: Friday, 22 May 09 1:00:54 GMT
Lines: 15
Message-ID: <4a1677c3$0$4905$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
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[Fbg^b33DdUW347ZQ;WKj
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:2728
```

Price:$3.29
Image: http://megadealfinder.info/image.php?id=B001DSZZUI
Best deal: http://megadealfinder.info/index.php?id=B001DSZZUI

Splicer units are used to connect full sections of hose for longer runs or to utilize short sections. Available for both 2-1/2" and 4" hose.

```
From -5739025101873054432
X-Google-Thread: 241b302a50,3eaaae429a0840b,start
X-Google-Attributes: gid241b302a50,public,usenet
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news.highwinds-media.com!feed-me.highwinds-media.com!
```

```
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
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xxxfer.readnews.com!transit4.readnews.com!news-out.readnews.com!
postnews3.readnews.com!posts.news.usenetmonster.com!
nnrp3.asbnva.usenetmonster.com!not-for-mail
Subject: High-Speed Rotary Tool SPECIAL OFFER with 100-Piece Accessory Kit!
From: Alosta@sarai.com
Newsgroups: rec.radio.amateur.homebrew
Date: Friday, 22 May 09 1:06:39 GMT
Lines: 19
Message-ID: <4a16791b$0$4905$ec3e2dad@news.usenetmonster.com>
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NNTP-Posting-Host: 5a4d8885.news.usenetmonster.com
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IohDjb_78l[[D6dmTfHPj1[Fbg^b33DdUW347ZQ;WKj
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:2729
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Price:$89.99
Image: http://discountadvisor.info/image.php?id=B000HRCM0M
Best deal: http://discountadvisor.info/index.php?id=B000HRCM0M

*The ultimate rotary tool and accessory kit - an exceptional value!*Variable speed to 30,000 RPM, powerful 1 Amp long-life motor*INCLUDES 30" flex-shaft pencil grinder and stand - expensive extras with other kits*100-piece accessory kit comes in custom-fit wooden case - keeps bits easy to find*Multiple tools in one; grinder, sander, polisher, drill, rotary saw, cut-off - incredibly versatile!We consider this to be one of the most useful--and most used--tools in our workshop because it does so many different things well. We've used it to sharpen lawnmower and chainsaw blades, buff away rust, cut bolts and screws, sand hard-to-reach corners and make intricate wood cuts. The key to its varied functionality is a powerful 1-amp motor with variable speed up to 30,000 RPM. Includes wide variety of quick-change collets that let you swap functions instantly. For really tight spots the 30" flex-shaft pencil grinder attaches easily to the tool--which then hangs on the included adjustable-height stand. The rotary tool comes with 40 accessories but in this special offer we're including a fantastic 100-piece accessory kit in custom-fit wooden storage and carry case to keep your bits organized and easy to find.

SIMILAR PRODUCTS:

Diamond Burr Set - 1/8", 20Pc:http://discountadvisor.info/index.php?id=B000MOI9G6

```
From -1262291440453943811
X-Google-Thread: 241b302a50,aae55f80ab188c05,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
newshosting.com!198.186.190.251.MISMATCH!transit4.readnews.com!news-
out.readnews.com!postnews3.readnews.com!posts.news.usenetmonster.com!
nnrp3.asbnva.usenetmonster.com!not-for-mail
Subject: Porter-Cable PT501 1/2-Inch Pnuematic Impact Wrench
From: Aronov@torri.com
Newsgroups: rec.radio.amateur.homebrew
Date: Friday, 22 May 09 1:15:42 GMT
Lines: 33
Message-ID: <4a167b3a$0$4905$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
NNTP-Posting-Host: 5a4d8885.news.usenetmonster.com
X-Trace: DXC=C8F7I>:d?]
[Y14:adYZQ>Vm>XX`Id5knX`IohDjb_78\;>SBGO_60bZdodn1Y5X\nTm>XX`Id5knX`IohDjb_78\
[[D6dmTfHPZ1[Fbg^b33DTUW347ZQ;WKZ
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:2730
```

Price:$132.89
Image: http://megadealfinder.info/image.php?id=B00005R1IB
Best deal: http://megadealfinder.info/index.php?id=B00005R1IB

Works well ,but not as powerful as claimed, I have an old cheapie from harbor freight with 250 lbs of torque, this porter cable is no more powerful than it is. No power, no torque, you get what you pay for
I'm not brand loyal, I look for the best tool at the best price. I searched the local stores and this tool offered 400 ft/lbs for 79.95. Works great for home/garage use and looks great too.The 20 pc socket set can't be beat for the price either.
Get plenty of control, not to mention power, with the Porter-Cable PT501 1/2-Inch Pneumatic Impact Wrench. This variable-speed impact wrench allows for precise control during use, and its durable pin clutch mechanism ensures years of trouble-free operation. The PT501 displays exceptional power and speed reaching 7,000 RPM, 1,000 BPM, and an incredible 400 ft./lbs. of torque. This compact, 1/2-inch impact wrench manages 4.2 SCFM at 90 PSI, so it's compatible with most air compressors.

SIMILAR PRODUCTS:

Porter-Cable PTA10 12-piece 1/2-Inch Metric Deep Impact Socket Set:http://megadealfinder.info/index.php?id=B000256S5Y
GoodYear 045 3/8-Inch-by-50-Feet Safety Yellow Rubber Hose 3/8 -Inch by 50-Feet 250 PSI With 1/4-Inch Ends:http://megadealfinder.info/index.php?id=B0000225E0
Porter-Cable PTR381 3/8-Inch Pneumatic Ratchet Wrench:http://megadealfinder.info/index.php?id=B00005R1IJ
15pc 1/2" Drive Deep Impact Socket Set (S.A.E.):http://megadealfinder.info/index.php?id=B000FPKXP2

ACCESSORIES:

Milton 728BK M Style Quick Coupler: 1/4-Inch Female Plug:http://megadealfinder.info/index.php?id=B0000225EB
Williams WS-4-11RC 1/2-Inch Drive Impact Socket Set 11-PC:http://megadealfinder.info/index.php?id=B000289344
Hitachi 728530 14-Piece 1/2-Inch 6-Point Impact Socket Set:http://megadealfinder.info/index.php?id=B000256RR8
PUR-Hose PUR-38X100 3/8-Inch X 100 Foot Polyurethane 250 PSI Air Hose:http://megadealfinder.info/index.php?id=B000067O0L
PUR-Hose PUR-38X050 3/8-Inch x 50 Foot Polyurethane 250 PSI Air Hose:http://megadealfinder.info/index.php?id=B000067O0K

From -6968416346529826579
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news1.google.com!news.glorb.com!transit3.readnews.com!news-xxxfer.readnews.com!textspool1.readnews.com!news-out.readnews.com!postnews3.readnews.com!posts.news.usenetmonster.com!nnrp3.asbnva.usenetmonster.com!not-for-mail
Subject: Clarion VX709 7-Inch 2-DIN Mulitmedia Station with Touch Panel Control and USB Port
From: Abugn@ruthe.com
Newsgroups: rec.radio.amateur.homebrew
Date: Friday, 22 May 09 7:50:06 GMT
Lines: 28
Message-ID: <4a16d7aa$0$4897$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
NNTP-Posting-Host: ea7aa28f.news.usenetmonster.com
X-Trace: DXC=RW24j=CEJ;^V^X]SLM<RQQm>XX`Id5knX`IohDjb_78\<^Td:]>OkbU][N\T<T:i?[FA6l3VPmN5WV]UnmY7I`F^<HEJP]]fVXXJ@;DHQD]H6^gPJO\neh25W
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:2731

Price:$999.99
Image: http:///image.php?id=B001OQGDIM
Best deal: http:///index.php?id=B001OQGDIM

7¿ Touch Screen LCD Monitor ¿Black Box¿ Navigation Ready (NP509 and CCB509 Sold Separately)or NAX980HD Ready (1) Composite Audio/Video Input Rear Vision Composite Camera Input Soil Resistant Touch Screen Control Panel - CD/MP3/WMA/DVD/DivX Playback Built-in Bluetooth Interface with Internal Microphone Rear USB Port with iPod Direct Connect iPod Audio/Video Control (CCA723 Sold Separately) 200 Watts (50 Watts X 4) 6 Channel / 2 Volt RCA Output High and Low Pass Filters Beat EQ, Magna Bass EX 2 Zone Entertainment (Dedicated A/V Output) XM Satellite Radio Mini-Tuner Ready OEM Steering Wheel Remote.

SIMILAR PRODUCTS:

Clarion CCA723 iPod Audio Control/Video Playback Interface Cable for MAX685BT, VRX785BT:http:///index.php?id=B0017KTW0G
Clarion NAX980HD Hard Disk Drive Navigation System with November 2007 Mapping Database:http:///index.php?id=B0019VJ0D2

ACCESSORIES:

Autosound 2000 Disc Three System/Environmental Test CD:http:///index.php?id=B0000009EO
Maxell CD/CD-ROM Scratch Repair Kit:http:///index.php?id=B00000J1E6
DEI Heat Shrink Tubing Black 4-foot length 6-mm diameter:http:///index.php?id=B001PPIF8S
DEI Heat Shrink Tubing Black 4-foot length Assortment:http:///index.php?id=B001PPEX66
DEI Heat Shrink Tubing Black 4-foot length 3-mm diameter:http:///index.php?id=B001PPDO16

```
From -3693119594703446052
X-Google-Thread: 241b302a50,3178fe034e7087f4
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!b9f5fe08!not-for-
mail
From: "Rick" <ricknj10@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <49f6fd80$0$2295$91cee783@newsreader02.highway.telekom.at>
Subject: Re: Motorola transistor
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
```

X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <8_DJl.3276$b11.2719@nwrddc02.gnilink.net>
Date: Tue, 28 Apr 2009 14:00:36 GMT
NNTP-Posting-Host: 72.82.204.253
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1240927236 72.82.204.253 (Tue, 28 Apr 2009 10:00:36 EDT)
NNTP-Posting-Date: Tue, 28 Apr 2009 10:00:36 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2632

Hi Herb,

That number is "house number." Those numbers hide the commercial equivalent of that transistor. I doubt you will find any Motorola documentation giving you an equivalent. There may be some cross reference guide somewhere that some gracious soul assembled but I bet it will be without Motorolas blessing !
There is a very high probability that you can substitute any of hundreds of similar transistors and they will work, depending on the function of that transistor. If it was used for RF amplifier service you could try a 2N3866 or 2N5109, for example.

I used to work for Western Electric and the Bell System did something similar. We had "KS" parts. In most cases they were identical to commercial parts but we did quality sampling, life cycle testing, etc. on them and assured ourselves that we weren't getting scrap swept up off the floor. For this we marked up the price about ten fold (!!!) as we supplied these "approved" parts to our factories. The factories built things then that they expected to last 50 years. Motorola probably did the same. This also helped to keep repair technicians from substituting "commercial junk" into Motorola equipment and destroying their pristine reputation. But I digress......

Rick K2XT

From -1049002108581450844
X-Google-Thread: 241b302a50,3178fe034e7087f4
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!291cd109!not-for-mail
From: alchazz <no.spam@wanted.com>
Subject: Re: Motorola transistor
Newsgroups: rec.radio.amateur.homebrew
References: <49f6fd80$0$2295$91cee783@newsreader02.highway.telekom.at>

<8_DJl.3276$b11.2719@nwrddc02.gnilink.net>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 31
Message-ID: <q_EJl.3289$b11.2497@nwrddc02.gnilink.net>
Date: Tue, 28 Apr 2009 15:09:10 GMT
NNTP-Posting-Host: 173.48.59.231
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1240931350 173.48.59.231 (Tue, 28 Apr 2009 11:09:10 EDT)
NNTP-Posting-Date: Tue, 28 Apr 2009 11:09:10 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2633

On Tue, 28 Apr 2009 14:00:36 +0000, Rick wrote:

> Hi Herb,
>
> That number is "house number." Those numbers hide the commercial
> equivalent of that transistor. I doubt you will find any Motorola
> documentation giving you an equivalent. There may be some cross
> reference guide somewhere that some gracious soul assembled but I bet it
> will be without Motorolas blessing !
> There is a very high probability that you can substitute any of hundreds
> of similar transistors and they will work, depending on the function of
> that transistor. If it was used for RF amplifier service you could try
> a 2N3866 or 2N5109, for example.
>
> I used to work for Western Electric and the Bell System did something
> similar. We had "KS" parts. In most cases they were identical to
> commercial parts but we did quality sampling, life cycle testing, etc.
> on them and assured ourselves that we weren't getting scrap swept up off
> the floor. For this we marked up the price about ten fold (!!!) as we
> supplied these "approved" parts to our factories. The factories built
> things then that they expected to last 50 years. Motorola probably did
> the same. This also helped to keep repair technicians from substituting
> "commercial junk" into Motorola equipment and destroying their pristine
> reputation. But I digress......
>
> Rick K2XT

Hmm, I don't know if it is a house number. My 1987 D.A.T.A. Transistor
book goes up to only SS3638.

Al

From -9206214966232233701
X-Google-Thread: 241b302a50,3178fe034e7087f4
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII

```
Path: g2news2.google.com!postnews.google.com!w35g2000prg.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Motorola transistor
Date: Tue, 28 Apr 2009 08:44:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <5bd0cfb4-0642-4bd3-9f70-261151d92429@w35g2000prg.googlegroups.com>
References: <49f6fd80$0$2295$91cee783@newsreader02.highway.telekom.at>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240933445 20137 127.0.0.1 (28 Apr 2009 15:44:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 28 Apr 2009 15:44:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w35g2000prg.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2634
```

On Apr 28, 8:58=A0am, Herbert Breitenfellner
<herb.breitenfell...@aon.at> wrote:

> Hi All,
> i am looking for a datasheet for a transistor in a TO 5 Case with a
> Motorola logo on top.
> Label: 1.line is SS3693
> =A0 =A0 =A0 =A0 2.line is 836
> May someone have an old Motorola databook or something like that and can
> make a copy for me.
>
> Thanks and vy73 de Herb oe5brl

How was the transistor used, as much information you can give would be
helpful, frequency voltages power anything you can think of.

Jimmie

```
From 2203284455428619590
X-Google-Thread: 241b302a50,3178fe034e7087f4
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!l16g2000pra.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Motorola transistor
```

```
Date: Tue, 28 Apr 2009 09:00:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <9852e3d5-26e4-4de2-a96c-83bee4370d43@l16g2000pra.googlegroups.com>
References: <49f6fd80$0$2295$91cee783@newsreader02.highway.telekom.at>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240934421 26463 127.0.0.1 (28 Apr 2009 16:00:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 28 Apr 2009 16:00:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l16g2000pra.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2635

On Apr 28, 8:58=A0am, Herbert Breitenfellner
<herb.breitenfell...@aon.at> wrote:
> Hi All,
> i am looking for a datasheet for a transistor in a TO 5 Case with a
> Motorola logo on top.
> Label: 1.line is SS3693
> =A0 =A0 =A0 =A0 2.line is 836
> May someone have an old Motorola databook or something like that and can
> make a copy for me.
>
> Thanks and vy73 de Herb oe5brl

Web sites that do part # to Federal stock # can be a big help in
researching parts as they often include house numers and obsolete
parts. Once you find  FSN or NSN search for it by FSN and you may find
replacement parts. I recently located a replacement this way. I would
also try replacing the SS with 2n,2sc....ect and see what comes up.
Check the specs of the transistors it list against the requirements of
the circuit.

Good hunting.

Jimmie



From -4680004104241716986
X-Google-Thread: 241b302a50,3178fe034e7087f4
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
newsfeed.utanet.at!newsfeed.aon.at!newsreader01.highway.telekom.at!not-for-mail
Date: Tue, 28 Apr 2009 18:17:41 +0200
```

From: Herbert Breitenfellner <herb.breitenfellner@aon.at>
User-Agent: Thunderbird 2.0.0.21 (X11/20090318)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Motorola transistor
References: <49f6fd80$0$2295$91cee783@newsreader02.highway.telekom.at>
<5bd0cfb4-0642-4bd3-9f70-261151d92429@w35g2000prg.googlegroups.com>
In-Reply-To: <5bd0cfb4-0642-4bd3-9f70-261151d92429@w35g2000prg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 15
Message-ID: <49f72c2c$0$2295$91cee783@newsreader01.highway.telekom.at>
NNTP-Posting-Host: 62.47.56.28
X-Trace: 1240935468 newsreader01.highway.telekom.at 2295 62.47.56.28:6080
Xref: g2news2.google.com rec.radio.amateur.homebrew:2636

JIMMIE schrieb:

> How was the transistor used, as much information you can give would be
> helpful, frequency voltages power anything you can think of.
>
> Jimmie

Hi,
the transistor is unused sitting in my junkbox and is waiting for
something to do. hi
I have got more of them. If i can't find any infos, then i will try to
build,for example, a Norton ampl. and compare it with one of my
favorites like 2N5109 But voltages and power are vitally to know.

73 Herb

From 3244841202995814335
X-Google-Thread: 241b302a50,b8985eb83f3a944a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!usenet-fr.net!de-l.enfer-du-nord.net!border1.nntp.ams.giganews.com!nntp.giganews.com!feeder2.news.saunalahti.fi!uutiset.elisa.fi!7564ea0f!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimenting with Coils for Crystal Sets
Message-ID: <qtkfv4ho0cff499kso382gkktm5j7icig6@4ax.com>
References: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
<jv2dnX42nKLOR27UnZ2dnUVZ_sydnZ2d@web-ster.com> <277330a1-b3f5-4246-a82d-6b7fabfca602@d25g2000prn.googlegroups.com>
<7aqbv4tc4t83ppudunqerpmmlp7pgsnug4@4ax.com> <7c5cb0df-a6c7-471a-9dda-83712234fa12@v1g2000prd.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
Lines: 26
Date: Wed, 29 Apr 2009 07:35:33 +0300
NNTP-Posting-Host: 85.77.247.236
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1240979732 85.77.247.236 (Wed, 29 Apr 2009 07:35:32 EEST)
NNTP-Posting-Date: Wed, 29 Apr 2009 07:35:32 EEST
Organization: Elisa Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:2637

On Mon, 27 Apr 2009 16:34:23 -0700 (PDT), K7ITM <k7itm@msn.com> wrote:

>If I want an unloaded coil Q of 2000 at 10MHz, I'd expect to need a
>coil about 5 inches (13cm) diameter and 10 inches (26cm) long--or
>similar. That assumes no loss to radiation. If I shield it to make a
>helical resonator, the Q will actually be lowered slightly, though
>such a large coil may have enough loss to radiation that it would be a
>wash between turning it into a helical resonator or leaving it in free
>air. Of course, with the shielding, it's less susceptible to changes
>in the environment around it. Anyway, the shield for a helical
>resonator should be a couple times the diameter of the coil, so it's a
>rather large arrangement anyway!

1/4 wave filters used in repeater duplexers have quite high unloaded-Q and are available to at least down to 50 MHz. Of course these are long, but in order to reduce total shape, these might be bent into U-shape.

To go into even lower frequencies, the resonator can be bent into a helix. At least the design nomogram in old ARRL handbooks seem to indicate that with sufficient size very high unloaded-Q could be achieved (up to several thousands). Of course the helix itself and the inside of the resonator may have to be silver plated.

Paul OH3LWR

From 7435443245306099504
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a5g2000pre.googlegroups.com!not-for-mail
From: spamhog <n1jpr@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: interchangeable coils etc: new ideas for connectors?
Date: Wed, 29 Apr 2009 10:52:37 -0700 (PDT)
Organization: http://groups.google.com
Lines: 100
Message-ID: <61c894eb-4b55-4c3b-9451-e670ca139f6a@a5g2000pre.googlegroups.com>
NNTP-Posting-Host: 93.33.98.113
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1241045049 7212 127.0.0.1 (29 Apr 2009 22:44:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 29 Apr 2009 22:44:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a5g2000pre.googlegroups.com; posting-host=93.33.98.113;
    posting-account=tuTwjgoAAABgsw0HP7EbLMV3yMd8jh4C
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.64 (X11; Linux i686; U; en) Presto/2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2638

IDEA

Many things are much simpler to make if switching RF components is avoided.

Historically, the most common connection type used for interchangeable coils seems to have been the octal socket and plug. The practical cons of this and similar solution are availability, lead length, and 1:1 tank-circuit to plug ratio.

OBSERVATION

When I look at the long gold-plated multi-contact plug-in connections on a PCI bus et similia, I see several advantages:

- many connections to play with, often used for large bandwidth signals

- connections spread along one dimension, hence plugging more than one RF-separate group of components on one card in one gesture seems conceivable

- one board extends at 90deg from the other, adding useful real estate within a small radius (cautions apply...)

- the plug-in board can itself hold structures with a vertical component, such as small shielding enclosures

- multiple contacts can be used for grounding, effectively helping keeping multiple component groups well separated, and also for other low impedance connections

- last, but not trivial, a card could have some free flat space opposite the contact edge for grabbing and pushing without touching and stressing the components themselves.

COMMENTS

In practice, I want to resuscitate a rough avatar of the HRO "tuning drawers" of the 1930's.

As an example, I am designing a bi-directional triple-tuned circuit around a triple variable capacitor, for use as a full coverage preselector/output filter - potentially from LF to HF.

It would be nice to put three combinations of coils and capacitive trimmers on a single card and stick it in to change bands. If that were possible, it would be trivial to design some cards for broad tuned coverage, others for a narrower band or even non-tuneable for a single frequency - not using the variable capacitor.

As a matter of course, different LPF's could be swapped in the same way.

This would be less convenient than switching, but would also obviate the need of wafer switches, switching diodes, reed relays &c. &c. and potentially introduce scope-oriented, not just frequency-oriented modular flexibility.

If I could find blank two-face copper clad PCI cards in a few different sizes I'd surely know how to put them to good use!

QUESTIONS:

- I don't recall seeing examples of this, including components or groups of components that are
.   * multiple
.   * functionally separate
.   * RF-segregated
.   * RF-hot at the same time
.   * at successive stages on a signal path
.   * on a single plug-in card.

Other than the HRO drawers, are there any?

- Any suggestions for card and socket formats that are
.   * standardized
.   * widely available
.   * perf board or single / double copper clad
.   * blank or with minimal preset paths / swathes
.   * ...or just the gilt contact edge, on which a board could be bolted/glued?

I hope I have indeed missed the classic elephant in the courtyard, and that a solution is at hand at www dot whatanewbie dot com.... ;-)

Thanks in eager anticipation!

Filippo N1JPR / I2

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From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Frequency doubling: Is bandpass filtering needed?
Lines: 26
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <am5Kl.287309$rp7.257557@en-nntp-02.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Wed, 29 Apr 2009 16:25:57 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2639
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I'm making a quick and dirty frequency "octupler" (x8) that uses a string of three Mini-Circuits frequency doublers (AMK-2-13+, KC2-11+, KC2-19+) -- 300-312.5MHz in, 2400-2500MHz output (the ISM band). I believe these are just diode ring-based mixers hooked up and optimized to act as doublers; they have an insertion loss of around 11dB. I have buffer amplifiers at the output of each to make up for this loss, but I'm wondering... do I need to bother with bandpass filters as well? Without them each doubler suppresses the fundamental and 3rd harmonic by some 40-60dB (depends on input frequency); the 4th harmonic is suppressed by ~15dB. Is anything undesireable going to happen if I just let everything through? That would mean that at the final (x8) output, I'd still have plenty of lower frequencies around -- albeit pretty well suppressed -- as well as some x12, x16, etc... but the x8 component should still be the strongest by far.

For a diode ring-based mixer, it's not entirely clear to me whether or not having some low-level "junk" to the RF input is all that bad. As a man once said to me, "diode mixer RF ports like being driven by squares waves," so the higher harmonics don't seem as though they'd matter much... but will the lower-frequency signals tending to dither the exact turn-on point of the diodes be deleterious?

---Joel

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From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Motorola transistor
Date: Wed, 29 Apr 2009 04:44:01 -0700 (PDT)
Organization: http://groups.google.com
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Xref: g2news2.google.com rec.radio.amateur.homebrew:2640

On Apr 28, 10:00=A0am, "Rick" <rickn...@hotmail.com> wrote:
> Hi Herb,
>
> That number is "house number." =A0Those numbers hide the commercial equiv=
alent
> of that transistor. =A0I doubt you will find any Motorola documentation g=
iving
> you an equivalent. =A0There may be some cross reference guide somewhere t=
hat
> some gracious soul assembled but I bet it will be without Motorolas bless=
ing
> !
> There is a very high probability that you can substitute any of hundreds =
of
```

> similar transistors and they will work, depending on the function of that
> transistor. =A0If it was used for RF amplifier service you could try a 2N=
3866
> or 2N5109, for example.
>
> I used to work for Western Electric and the Bell System did something
> similar. =A0We had "KS" parts. =A0In most cases they were identical to
> commercial parts but we did quality sampling, life cycle testing, etc. on
> them and assured ourselves that we weren't getting scrap swept up off the
> floor. =A0For this we marked up the price about ten fold =A0(!!!) as we s=
upplied
> these "approved" parts to our factories. =A0The factories built things th=
en
> that they expected to last 50 years. =A0Motorola probably did the same. =
=A0This
> also helped to keep repair technicians from substituting "commercial junk=
"
> into Motorola equipment and destroying their pristine reputation. =A0But =
I
> digress......
>
> Rick =A0K2XT

I dont think SS was a house number. I remember using some of the SS
transistors in my military days. If I am correct they were made in the
60s and are just long time obsolete.. The ones I remember were used in
a servo amp for a mag tape drive and were bad about going out. When
the drive would fail we almost immediately would change the SS
transistors as a first course of troubleshooting since they were very
easy to change(socketed) and usually the problem.

Here is a list of transistor prefixes SS was used on Motorola silicon
transistors:

Here is a list of semiconductor prefixes.

Pro electron A... (germanium)
Prefixes in the Datenblattsammlung:AA... AC... AD... AE... AF... AS...
OUTER ONE... AY...
of the manufacturers: AEG Telefunken, SIEMENS, Sescosem>sgs thomson,
VALVO>PHILIPS

Pro electron B... (silicon)
Prefixes in the data sheet collection:
BA.. BB.. BC.. BD.. BF. BG.. SHEET. BP. BREAK. BS.. BT.. LE. BX.. BY..
BZ..
of the manufacturers:
AEG Telefunken, INTERCMetal, MOTOROLA, RCA, SIEMENS, Sescosem>sgs
thomson, Texas Instruments, VALVO>PHILIPS
some also of BENTRON, FAIRCHILD, FERRANTI, GENERAL INSTRUMENT,
NATIONAL SEMICONDUCTOR, SAMSUNG, SILICONIX, SPRAGUE
and for opto-electronic parts (BP...) also of SILICONE GENERAL and
BENTRON

and for thyristors, triacs uww.(BT...) also of TRANSITRON

Pro electron C... (gallium arsenide)
Prefixes of the data sheet collection:
APPROX.... CF... CN... CQ... CX...
of the manufacturers: AEG Telefunken, SIEMENS, VALVO

JEDEC Registration

1N.... (diodes)
In the data sheet collection of:
FAIRCHILD, GENERAL ELECTRIC>RCA, GENERAL INSTRUMENT, MOTOROLA, RCA, Sescosem>sgs thomson, SEMTECH, SOLITRON, Texas Instruments, UNITRODE some also of CODI, GENERAL SEMICONDUCTOR, HEWLETT-PACKARD, M/ACOM, MICROSEMICONDUCTOR CORP., SEMICON, SIEMENS, SILEC, TELEDYNE, TRANSITRON, UNIZON, VALVO

2N.... (transistors)
All American manufacturers, also many European and Japanese. Before 30 years it belonged to the good clay/tone to have at least some JEDEC types in the program. In the reason it unimportant also, from which manufacturer the data sheet comes, because the uniformity was more strictly supervised, as at most other families.

3N.... (FETs, opto coupler)
In the data sheet collection of:
GENERAL ELECTRIC>RCA, INTERSIL, MOTOROLA, RCA, SOLITRON, sprague, TELEDYNE, Texas Instruments

4N.... (opto couplers)
In the data sheet collection of:
HEWLETT-PACKARD, MII=3DMICROPAC INDUSTRIES Inc., SIEMENS, Texas Instruments, ENGINE

&Ntilde;.... (opto couplers)
In the data sheet collection of:
HEWLETT-PACKARD, MII=3DMICROPAC INDUSTRIES Inc..

Japanese type rows

1S.... (diodes)
In the data sheet collection of:
MATSUSHITA, MITSUBISHI, NEC, NJRC, ROHM, SANYO, SONY, TOSHIBA

2SA.... (PNP)
2SB.... (PNP, power)
2SC.... (NPN and NPN HF power)
2SD.... (NPN, power)
In the data sheet collection of: FUJITSU, HITACHI, MATSUSHITA, MITSUBISHI, NEC, ROHM, SAMSUNG, SANK, SANYO, SONY, TOSHIBA

2SJ.... (P channel FET)
In the data sheet collection of HITACHI, NEC, SONY, TOSHIBA

2SK.... (N channel FET)
In the data sheet collection of HITACHI, MATSUSHITA, MITSUBISHI, NEC, ROHM, SONY, TOSHIBA

3SK.... (N channel DGMOSFET)
In the data sheet collection of NEC and SONY

Pre manufacturer fixed
G GENERAL INSTRUMENT>GENERAL SEMICONDUCTOR (diode) Thomson csf>st MICROELECTRONICS
GAT PLESSEY>GEC PLESSEY SEMICONDUCTORS GIGAHERTZ DEVICE (varactor)
GD SIEMENS>INFINEON
GE HARRIS>INTERSIL (Ts, diodes)
GED GENERAL ELECTRIC>HARRIS>INTERSIL(FET)
GEG RCA>HARRIS>INTERSIL (FET)
GOES RCA>HARRIS>INTERSIL (FET)
GEP RCA>HARRIS>INTERSIL (FET)
GER RCA>HARRIS>INTERSIL (FET) GI GENERAL INSTRUMENT>GENERAL SEMICONDUCTOR (diode)
GHV GENERAL SEMICONDUCTOR IND.INC.(Suppressor)
GLA of CODI=3DCOMPUTER DIODE CORP.(Diode)
GSI HARRIS>INTERSIL (IGBT)
GSV GENERAL SEMICONDUCTOR IND.INC.
GT TOSHIBA (IGBT)
hp FERRANTI>GEC PLESSEY SEMICONDUCTORS (diode)
HFET HEWLETT PACKARD (ATM F T)
HGTA HARRIS>INTERSIL (IGBT)
HGTB HARRIS>INTERSIL (IGBT)
HGTD HARRIS>INTERSIL (IGBT)
HGTG HARRIS>INTERSIL (IGBT)
HGTH HARRIS>INTERSIL (IGBT)
HGTM HARRIS>INTERSIL (IGBT)
HGTP HARRIS>INTERSIL (IGBT)
HMF HARRIS>INTERSIL MICROWAVE SEMICOND.
HPWR HEWLETT PACKARD (MOSFET)
HT FERRANTI>GEC PLESSEY SEMICONDUCTORS (Ts)
HV ERIE (diode)
HVF UNITRODE (diode)
HVU HITACHI (C-diode)
ICT GENERAL SEMICONDUCTOR IND.INC.(Transzorb)
ICTE GENERAL SEMICONDUCTOR IND.INC.(Transzorb)
ID INTERSIL>HARRIS>INTERSIL (diode)
IGT HARRIS>INTERSIL (IGBT)
IMB ROHM (Ts)
IMD ROHM (Ts)
IMH ROHM (Ts)
IMT ROHM (Ts)
IMX ROHM (Ts)
IMZ ROHM (Ts)
IRF INTERNATIONAL of RECTIFIER (MOSFET)
IRFAC RCA>HARRIS>INTERSIL (MOSFET)

IRFBC RCA>HARRIS>INTERSIL (MOSFET)
IRFD INTERNATIONAL of RECTIFIER (MOSFET)
IRFF INTERNATIONAL of RECTIFIER (MOSFET)
IRFG INTERNATIONAL of RECTIFIER (MOSFET
IRFH INTERNATIONAL of RECTIFIER (MOSFET)
IRFJ INTERNATIONAL of RECTIFIER (MOSFET)
IRFP INTERNATIONAL of RECTIFIER (MOSFET)
IRFPC RCA>HARRIS>INTERSIL (MOSFET)
IRFR HARRIS>INTERSIL (MOSFET)
IRFU HARRIS>INTERSIL (MOSFETS)
IRFZ INTERNATIONAL of RECTIFIER (MOSFET)
IT INTERSIL>HARRIS>INTERSIL (MOSFET)
IVN INTERSIL>HARRIS>INTERSIL (MOSFET)
IXTH IXYS (MOSFET)
IXTM IXYS (MOSFET)
J SILICONIX (FET)
JO ENGINE SEMICONDUCTORS>MOTOROLA (Ts)
JPAD CALOGIC CORP. (diode)
K KMC SEMICONDUCTOR COR: (Ts) TELEFUNKEN>TEMIC (opto coupler), SGS>ST
MICROELECTRONICS (Ts)
KB UNIZON (diode)
KE SOLITRON (FET)
KSC SAMSUNG(discrete)>FAIRCHILD SEMICONDUCTOR (Ts)
KSD SAMSUNG(discrete)>FAIRCHILD SEMICONDUCTOR (Ts)
KTY VALVO>PHILIPS (temp sensor)
KV TOKO SEMICONDUCTORS (C-diode)
LD of CODI=3DCOMUTER DIODE CORP.(Diode)
LL INTERMETALL>GENERAL SEMICONDUCTOR (diode)
LNA of CODI=3DCOMPUTER DIODE CORP.(Diode)
LT ENGINE SEMICONDUCTORS>MOTOROLA (Ts)
LVA ENGINE SEMICONDUCTORS>MOTOROLA (diode)
M SEMTECH (diode) SILICONIX (FET) INTERSIL>HARRIS>INTERSIL (FET) mA
MICROWAVE ASSOCIATES=3DMACOM/AMP(Ts, Dioden) MOTOROLA (germanium)
MAC MOTOROLA (triac)
MT GENERAL INSTRUMENT>GENERAL SEMICONDUCTOR (Rect.)
MSC=3DMICROSEMICONDUCTOR CORP.(Diode)
MBD MOTOROLA (diode)
MBR MOTOROLA (diode) GENERAL INSTRUMENT>GENERAL SEMICONDUCTOR (diode)
MC MOTOROLA (IC)
MSC=3DMICROSEMICONDUCTOR CORP.(Diode)
MCL MOTOROLA (diode) MCR MOTOROLA (Thyr.usw.)
MCT GENERAL INSTRUMENT>GENERAL SEMICONDUCTORS (Optok.) MCTA
HARRIS>INTERSIL (MOS Thyr.)
MCTV HARRIS>INTERSIL (MOS Thyr.)
MD MOTOROLA (Ts)
MDA MOTOROLA (Rect.)
ME Thomson csf>st MICROELECTRONICS (diode)
MEM SILICONIX (MOSFET)
MFE MOTOROLA (FET)
MFR MOTOROLA (Ts)
mg TOSHIBA (IGBT)
MGF MITSUBISHI (ATM F T)
MH MSC=3DMICROSEMICONDUCTOR CORP.(Diode)

MI MITSUBISHI (diode)
MJ MOTOROLA (Ts)
MFE MOTOROLA (Ts)
ML PLESSEY>GEC PLESSEY SEMICONDUCTORS (Ts)
mm MOTOROLA (Ts)
MMBD MOTOROLA (diode)
MMBV MOTOROLA (diode)
MMCM MOTOROLA (Ts)
MMD MOTOROLA (diode)
MMT MOTOROLA (Ts)
MP MICRO POWER of SYSTEM (Ts) MOTOROLA (Ts)
MPC MOTOROLA (SMART)
MPF SILICONIX (FET) MOTOROLA (FET)
MPG GENERAL INSTRUMENT>GENERAL SEMICONDUCTOR (diode)
MPN MOTOROLA (diode)
MPS MOTOROLA (Ts) FAIRCHILD (Ts)
MPSA FAIRCHILD (Ts) MOTOROLA (Ts) FERRANTI>GEC PLESSEY SEMICONDUCTORS (Ts)
MPSD MOTOROLA (Ts) MPSH FAIRCHILD (Ts)
MPSL FAIRCHILD (Ts) MPSU MOTOROLA (Ts)
MPT MOTOROLA (Bilat.Trig.)
MPU MOTOROLA (UJTs)
MR MOTOROLA (diode)
MRA ENGINE SEMICONDUCTORS>MOTOROLA (Ts)
MRF MOTOROLA (Ts)
MSC MSC=3DMICROWAVE SEMICOND.CORP.>SIEMENS?(Ts)
MSD MOTOROLA (diodes)
MT MICROSEMICONDUCTOR CORP. (diode) PLESSEY>GEC PLESSEY SEMICONDUCTORS (FET)
MTM MOTOROLA (MOSFET)
MTP MOTOROLA (MOSFET) Sgs thomson>st MICROELECTRONICS (MOSFET)
MTS MOTOROLA (temp sensor)
MU MOTOROLA (diodes)
MUR RCA>HARRIS>INTERSIL(Dioden)
mV MOTOROLA (C-diode)
MVAM MOTOROLA (C-diode)
MZ MOTOROLA (breakdown diode) SILEC (diode)
WELL NSC=3DNATIONAL SEMICONDUCTOR CORP.(Ts)
NB NSC=3DNATIONAL SEMICONDUCTOR CORP.(Ts)
lp SILICONIX (MOSFET)
NE NEC (Ts)
NR NSC=3DNATIONAL SEMICONDUCTOR CORP.(Ts)
LV SOLITRON (diode)
NOS SILICONIX (MOSFET)
OA VALVO>PHILIPS (diode) degrees VALVO>PHILIPS (Ts)
INTERMETALL>GENERAL SEMICONDUCTOR (Ts) TELEFUNKEN (Ts)
OCP VALVO>PHILIPS (Ge photo Ts)
OD TELEFUNKEN (Ts)
ON VALVO>PHILIPS (Ts)
OI OPTRON (Opto)
OY AEG (diode)
P Siliconix (Ts) PLESSEY>GEC PLESSEY SEMICONDUCTORS (ATM F T) P6KE Sgs thomson>st MICROELECTRONICS (Suppressor)

P7T Sgs thomson>st MICROELECTRONICS (Suppressor)
PAD SILICONIX (diode) CALOGIC CORP. (diode)
PBYR PHILIPS'S (diode) PE FAIRCHILD (Ts)
PFR Sgs thomson>st MICROELECTRONICS (diode)
PG AMPOWER (diode)
pH MACOM=3DAMP (Ts) VALVO>PHILIPS (Ts)
PL Sgs thomson>st MICROELECTRONICS (Suppressor) Texas Instruments (Ts)
POLARIZES Sgs thomson>st MICROELECTRONICS (diode)
PMBF VALVO>PHILIPS (FET)
PMD LAMBDA (Ts)
pn FAIRCHILD (Ts)
PRD of CODI=3DCOMPUTER DIODE CORP. (diode)
HP of ENGINES SEMICONDUCTORS>MOTOROLA(Diode)
PT ENGINE SEMICONDUCTORS>MOTOROLA(Ts)
PTB ERICSSON (Ts)
PTC off =3D all bradly (Ts)
PZT VALVO>PHILIPS (Ts)
QSCH HEWLETT PACKARD (diode)
RB TOSHIBA? (diode)
RCH HARRIS>INTERSIL (IGBT)
RDF GENERAL INSTRUMENT>GENERAL SEMICONDUCTOR (Rect.)
RF EDI (diode) RFA HARRIS>INTERSIL (MOSFET)
RFW HARRIS>INTERSIL (MOSFET)
RK EDI (diode)
RMPG GENERAL INSTRUMENT>GENERAL SEMICONDUCTOR (diode)
RN TOSHIBA (Ts)
RTC TRANSITRON (Thyr.)
RTD TRANSITRON (Thyr)
RTGD TRANSITRON (GTO Thyr)
RTPC TRANSITRON (Opto Thyr.)
RTU TRANSITRON (SCR)
RUR HARRIS>INTERSIL (diode)
RURD HARRIS>INTERSIL (diode)
S SHINDENGEN (diode) SEMICON (diode) INTERMETALL>GENERAL SEMICONDUCTOR (diode)
CTC=3DCOMMUNICATIONS TRANSISTOR CORP. (Ts) AEG Telefunken (diode)
TOSHIBA (Ts) POWEREX (Thyr.) Texas Instruments (GaSaFET) SEMICON (Suppressor) SELF-service GENERAL INSTRUMENT>GENERAL SEMICONDUCTOR (diode) SANYO (diode)
SBL GENERAL INSTRUMENT>GENERAL SEMICONDUCTOR (diode) sports club GENERAL ELECTRIC>HARRIS>INTERSIL(Triac) MOTOROLA (triac) SCA SEMTECH (diode)
SCHF SEMTECH (diode)
SCHS SEMTECH (diode)
SCM SEMTECH (diode)
SCT SEMTECH (diode)
SD Sgs thomson>st MICROELECTRONICS (Ts) CALOGIC CORP.(CMOS) SOLITRON (diode) INTERMETALL>GENERAL SEMICONDUCTOR (diode) TOPAZ (MOSFET) UNITRODE (diode) SILICONE GENERAL (diode) SPI=3DSEMI PROCESSES Inc. (MOSFET)
SDF SOLITRON (FET) SDM SOLITRON (Ts)
SDT SOLITRON (Ts) SES UNITRODE (diode)

SFH SIEMENS>INFINEON (photo...)
SFT DITRATHERM (Ts)
SGH SONY (HEMT)
SGM SONY (ATM F T)
SGS Sgs thomson>st MICROELECTRONICS (diodes) SGSD Sgs thomson>st MICROELECTRONICS (Ts)
SGSP Sgs thomson>st MICROELECTRONICS (MOSFET)
SGT RCA>HARRIS>INTERSIL (Suppressor)
SI SIEMENS>INFINEON (diode)
SICT SEMICON (diode)
SID AEG (diode)
SIL INTERMETALL>GENERAL SEMICONDUCTOR (breakdown diode)
SKC SEMIKRON (Ts)
SM Sgs thomson>st MICROELECTRONICS (diode)
SMBT SIEMENS>INFINEON (Ts)
SMBYT Sgs thomson>st MICROELECTRONICS (diode)
SMD SILICONIX (Ts) SMF SOLITRON (FET)
SMM SILICONIX (MOSFET)
SMU SILICONIX (Ts)
SN SIEMENS>INFINEON (MOSFET)
FR SIEMENS>INFINEON (MOSFET) Sgs thomson>st MICROELECTRONICS (Ts)
SPD SOLITRON (diode)
SQ MSI (C-diode)
SRP GENERAL INSTRUMENT>GENERAL SEMICONDUCTOR (diode)
SS MOTOROLA (Ts)
SSiE SIEMENS>INFINEON (diode)
SST SILICONIX (FET) CALOGIC CORP. (FET)
STH Sgs thomson>st MICROELECTRONICS (IGBT)
STL Sgs thomson>st MICROELECTRONICS (MOSFET)
STV Sgs thomson>st MICROELECTRONICS (MOSFET)
CSU INTERSIL>HARRIS>INTERSIL (FET)
SUES SEMICON (diode) SONY? (diode)
SVD ENGINE SEMICONDUCTORS>MOTOROLA (diode)
SVT ENGINE SEMICONDUCTORS>MOTOROLA (Ts)
SX SEMTECH (breakdown diode) SYSTEM SEMTECH (breakdown diode)
sp MOTOROLA (breakdown diode)
T AEG (Thyr.) RCA>HARRIS>INTERSIL (Thyr.)
TBC THOSHIBA (Ts)
TC TRANSITRON (THYR.) Thomson csf>sgs thomson>st MICROELECTRONICS (ATM F T)
TCC Sgs thomson>st MICROELECTRONICS (Ts)
TCR TRANSITRON (Thyr.)
TCDT TELEFUNKEN (Optok.)
TD SILICONIX (MOSFET) AEG (Thyr.)
TDS Sgs thomson>st MICROELECTRONICS (Ts) TELEFUNKEN>TEMIC (Ts)
TEC TOSHIBA (Ts)
TED TOSHIBA (Ts)
TF SIEMENS>INFINEON (Ts)
TFR TRANSITRON (diode)
TGL GENERAL INSTRUMENT>GENERAL SEMICONDUCTOR (diode)
TH Sgs thomson>st MICROELECTRONICS (Ts)
THS TOSHIBA? (resounding sensor)
TI of Texas Instruments (Ts)

TIP Texas Instruments (Ts) SAMSUNG(discrete)>FAIRCHILD SEMICONDUCTOR
Sgs thomson>st MICROELECTRONICS
TIS Texas Instruments (Ts)
t-lva Sgs thomson>st MICROELECTRONICS (breakdown diode)
TM TRANSITRON (diode) Sgs thomson>st MICROELECTRONICS (breakdown
diode) TMF TELMOS (MOSFET)
TMM Sgs thomson>st MICROELECTRONICS (diode)
TN SILICONIX (MOSFET) SUPERTEX (MOSFET)
TP SUPERTEX (MOSFET) SIEMENS>INFINEON (photo.) ENGINES
SEMICONDUCTORS>MOTOROLA (Ts)
TPA Sgs thomson>st MICROELECTRONICS (Suppressor)
TPB Sgs thomson>st MICROELECTRONICS (Suppressor)
TPM ENGINE SEMICONDUCTORS>MOTOROLA (Ts)
TPV ENGINE SEMICONDUCTORS>MOTOROLA (Ts) ENGINE ENGINE
SEMICONDUCTORS>MOTOROLA (Ts)
TSF Texas Instruments (Temp.Sens.)
TSU Texas Instruments (Temp.Sens.)
TTB ERICSSON (Ts)
t-tip TECCOR ELECTRONICS Inc. (Ts)
DO SIEMENS>INFINEON (Tunneld.)
TVS UNITRODE (diode) powerplant AEG (diode)
TX SONY (MOSFET) HEWLETT-PACKARD (diode)
TXC SIEMENS>INFINEON (triac)
TXD SIEMENS>INFINEON (triac)
TZ TOPAZ (MOSFET) SEMICON (Z/Suppressor)
U SILICONIX (FET) INTERSIL>HARRIS>INTERSIL (FET) VALVO>PHILIPS (FET)
U2TA UNITRODE (Ts)
UC SOLITRON (FET)
UES UNITRODE (diode)
UF MACOM (Ts) GENERAL INSTRUMENT>GENERAL SEMICONDUCTOR (diode)
UFN UNITRODE (MOSFET)
UFNA UNITRODE (MOSFET)
UFND UNITRODE (MOSFET)
UFNF UNITRODE (MOSFET)
UHVP UNITRODE (diode) AROUND UNITRODE (diode)
UMT UNITRODE (Ts)
UPT UNITRODE (Ts)
UN MATSUSHITA (Ts)
UPP MICROSEMI CORP. (diode)
USD UNITRODE (diode)
USR SIEMENS>INFINEON (diode)
UT UNITRODE (diode)
UTR UNITRODE (diode)
UTV ACRIAN (Ts)
UTX UNITRODE (diode)
UZ UNITRODE (breakdown diode)
V TELEFUNKEN>TEMIC (Opto)
VCR SILICONIX (FET)
VMP SILICONIX (MOSFET)
VN SUPERTEX (MOSFET) INTERSIL>HARRIS>INTERSIL (MOSFET) SILICONIX
(MOSFET) TOPAZ (MOSFET)
VP TOPAZ (MOSFET) SUPERTEX (MOSFET)
VSK VARO SEMICONDUCTOR INC.(Diode)

WN SILICONIX (FET)
CR JRC=3DJAPAN RADIO CORP.(Z Diode)
YTS TOSHIBA (Ts)
Z INTERMETALL>GENERAL SEMICONDUCTOR (breakdown diode)
ZC FERRANTI>GEC PLESSEY SEMICONDUCTORS (diode)
ZD INTERMETALL>GENERAL SEMICONDUCTOR (breakdown diode)
ZF INTERMETALL>GENERAL SEMICONDUCTOR (breakdown diode)
ZL INTERMETALL>GENERAL SEMICONDUCTOR (breakdown diode)
ZM INTERMETALL>GENERAL SEMICONDUCTOR (breakdown diode)
ZPD INTERMETALL>GENERAL SEMICONDUCTOR (breakdown diode)
ZPU INTERMETALL>GENERAL SEMICONDUCTOR (breakdown diode)
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ZPY INTERMETALL>GENERAL SEMICONDUCTOR (breakdown diode)
ZSY INTERMETALL>GENERAL SEMICONDUCTOR (Suppressor)
ZTE INTERMETALL>GENERAL SEMICONDUCTOR (breakdown diode)
ZVN FERRANTI>GEC PLESSEY SEMICONDUCTORS (MOSFET)
ZX INTERMETALL>GENERAL SEMICONDUCTOR (breakdown diode)
ZY INTERMETALL>GENERAL SEMICONDUCTOR (breakdown diode)
ZZ INTERMETALL>GENERAL SEMICONDUCTOR (Suppressor)

JImmie

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MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Frequency doubling: Is bandpass filtering needed?
References: <am5Kl.287309$rp7.257557@en-nntp-02.dc1.easynews.com>
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21:10:00 EDT)
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Date: Wed, 29 Apr 2009 18:09:56 -0700

Xref: g2news2.google.com rec.radio.amateur.homebrew:2641

Joel Koltner wrote:
> I'm making a quick and dirty frequency "octupler" (x8) that uses a string of three Mini-Circuits frequency doublers (AMK-2-13+, KC2-11+, KC2-19+) -- 300-312.5MHz in, 2400-2500MHz output (the ISM band). I believe these are just diode ring-based mixers hooked up and optimized to act as doublers; they have an insertion loss of around 11dB. I have buffer amplifiers at the output of each to make up for this loss, but I'm wondering... do I need to bother with bandpass filters as well? Without them each doubler suppresses the fundamental and 3rd harmonic by some 40-60dB (depends on input frequency); the 4th harmonic is suppressed by ~15dB. Is anything undesireable going to happen if I just let everything through? That would mean that at the final (x8) output, I'd still have plenty of lower frequencies around -- albeit pretty well suppressed -- as well as some x12, x16, etc... but the x8 component should still be the strongest by far.
>
> For a diode ring-based mixer, it's not entirely clear to me whether or not having some low-level "junk" to the RF input is all that bad. As a man once said to me, "diode mixer RF ports like being driven by squares waves," so the higher harmonics don't seem as though they'd matter much... but will the lower-frequency signals tending to dither the exact turn-on point of the diodes be deleterious?
>

Yes, anything below the desired 8x frequency and anything above that isn't a harmonic of it will cause spurious mixing products when your intent is to drive the LO port of a DBM with it. What happens within your octupler doesn't matter much as long as you filter the final output.

BTW, in the olden days we preferred 3x, 5x per stage. Two 3x stages would give you 9x. The most brazen ones (not me) did a direct 7x or even 9x. We just drove transistors in class C real hard.

--
Regards, Joerg

http://www.analogconsultants.com/

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From: David <DavidBR549@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimenting with Coils for Crystal Sets
Date: Wed, 29 Apr 2009 18:20:21 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13

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Xref: g2news2.google.com rec.radio.amateur.homebrew:2642
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On Apr 25, 7:23=A0pm, David <DavidBR...@gmail.com> wrote:

> Was just wandering if anyone has used or experimented with television
> IF, Video and Detector coils, most are slug tuned coils that have a
> few uh to several hundred uh, some are sheilded some are not, i have
> about 500 that i bought years ago, a lot of them look very close too
> the old loopstick type coils, looking for
> ideas.
> Thanks David

Wonder if an adjustable coil loopstick and variable capacitor preselector between the antenna and the crystal set would improve reception for distant stations on the broadcast and high frequency bands? David

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Date: Wed, 29 Apr 2009 20:18:15 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.21 (X11/20090318)
MIME-Version: 1.0
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Xref: g2news2.google.com rec.radio.amateur.homebrew:2643

David wrote:
> On Apr 25, 7:23 pm, David <DavidBR...@gmail.com> wrote:
>> Was just wandering if anyone has used or experimented with television
>> IF, Video and Detector coils, most are slug tuned coils that have a
>> few uh to several hundred uh, some are sheilded some are not, i have
>> about 500 that i bought years ago, a lot of them look very close too
>> the old loopstick type coils, looking for
>> ideas.
>> Thanks David
>
> Wonder if an adjustable coil loopstick and variable capacitor
> preselector between the antenna and the crystal set would improve
> reception for distant stations on the broadcast and high frequency
> bands?                                                            David

Nope, you have the same problem with loaded vs. unloaded Q and efficiency.

You can get there from here, you just can't do it with that loopstick.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" was written for you.
See details at http://www.wescottdesign.com/actfes/actfes.html


From 4032898902538264830
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!a5g2000pre.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimenting with Coils for Crystal Sets
Date: Wed, 29 Apr 2009 21:43:27 -0700 (PDT)
Organization: http://groups.google.com
Lines: 82
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Xref: g2news2.google.com rec.radio.amateur.homebrew:2644

On Apr 28, 5:20=A0am, Bill M <radioex...@geeemail.com> wrote:
> K7ITM wrote:
> > On Apr 27, 8:02 pm, Bill M <radioex...@geeemail.com> wrote:
> >> K7ITM wrote:
>
> >>> To put some numbers on what Paul suggested:
> >>> If I want an unloaded coil Q of 2000 at 10MHz,
> >> I stopped here.
>
> >> I'd expect to need a....
>
> >> No way you'll ever see 2000 Q at 10 Mcs. Can't happen. Some guys are
> >> approaching 2000 at 1 MC BCB but there's lots of expensive hoops to ju=
mp
> >> through to reach that point. =A0Simply cannot be had at 10 Mcs. =A0200=
-300
> >> on a good SW coil is about all that can be achieved.
> > ...
> > Interesting comment. =A0In the filters I build for test fixtures, I use
> > air-core coils that are about 1" diameter and 1" long, and they give
> > me Qu in excess of 300 at 10MHz. =A0For what I do, I don't need Qu up i=
n
> > the thousands, and don't have room for really big coils, but can you
> > give me a reason I shouldn't expect Qu to scale linearly with size up
> > to the point where radiation losses become significant?
>
> > Can you tell me why I should think that the inductance calculator at
> >http://hamwaves.com/antennas/inductance.htmlis not giving me accurate
> > results when I put in, say, D=3D130mm, n=3D20, l=3D260mm, d=3D7mm, and
```

> > f=3D10MHz? =A0It agrees with other independent ways I have to estimate = the
> > Qu of the ~1 inch coils I build, and those coils measure within
> > engineering tolerance of the estimates.
>
> Self-capacitance (ultimately self-resonance) is always a contributing
> factor that prevents coils from achieving their maximum theoretical Q.
> Estimating coils whose Q is going to fall in the 200 range for other
> reasons is relatively easy but that doesn't mean you can scale upwards
> proportionately.
>
> I build air coils in the 3 inch range along the lines of what is
> pictured here, =A0http://www.sparkbench.com/homebrew/grebe/cr18.html
>
> They only *measure* in the 250 range. =A0Silver-plated wire could
> certainly improve a coil of this size but no way would you achieve
> numbers like 2000.
>
> -Bill

OK, I was curious. Was I way off-base, or is it reasonable to think that you can get a 10MHz Qu considerably higher than 250 (and possibly up in the stratosphere above 1000)? I'm not going to spend the time, effort and money to build a seriously large coil as the theory suggests I'd need, but I did wind a somewhat smaller one...

I wound 15 turns of #10 AWG (2.55mm) bare copper with about 2.25 inches ID and 3 inches long. I resonated it with 3 * 12pF C0G capacitors; it resonates at 9.088MHz. I coupled an output to an analyzer through 1pF tapped one turn up from the "cold" end, and loosely coupled an input from the analyzer's source using a one-turn loop spaced away from the coil. My back-of-the-envelope calculation says such a coil with air insulation should have a Qu around 740 at 9MHz. In a tank circuit, the finite Q of the capacitors will lower the tank Q below that value. What I actually measure is a 3dB bandwidth of 15.87kHz, for a tank Q of 572. OK, so that's a bit lower than I might have expected. BUT--this coil is wound on a length of black ABS drain pipe, which is an absolutely terrible thing to use as a coil form if you're trying to get the highest possible Q. (My plan was originally to take the coil off the form after I wound it, but it had too much of a mind of its own about what shape it was going to assume. I've wound some smaller self-supporting coils, but this one didn't work that way.)

I'm convinced by this little 'speriment that I could build an LC tank resonant at 10MHz with a tank Q above 1000 with no trouble--and probably _well_ above 1000 if I used really high Q capacitors and just enough low-loss solid insulation to keep the coil turns properly spaced. I don't need one at the moment, but if I ever do, I sure won't be afraid to try it.

Cheers,
Tom

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Xref: g2news2.google.com rec.radio.amateur.homebrew:2645

"Herbert Breitenfellner" <herb.breitenfellner@aon.at> wrote in message
news:49f72c2c$0$2295$91cee783@newsreader01.highway.telekom.at...
> JIMMIE schrieb:
>
> > How was the transistor used, as much information you can give would be
> > helpful, frequency voltages power anything you can think of.
> >
> > Jimmie
>
> Hi,
> the transistor is unused sitting in my junkbox and is waiting for
> something to do. hi
> I have got more of them. If i can't find any infos, then i will try to
> build,for example, a Norton ampl. and compare it with one of my
> favorites like 2N5109 But voltages and power are vitally to know.
>
> 73 Herb

```
Gee! just save it for show.




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Date: Thu, 30 Apr 2009 11:36:53 +0200
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Xref: g2news2.google.com rec.radio.amateur.homebrew:2646

JB schrieb:
> "Herbert Breitenfellner" <herb.breitenfellner@aon.at> wrote in message
> news:49f72c2c$0$2295$91cee783@newsreader01.highway.telekom.at...
>> JIMMIE schrieb:
>>
>>> How was the transistor used, as much information you can give would be
>>> helpful, frequency voltages power anything you can think of.
>>>
>>> Jimmie
>> Hi,
>> the transistor is unused sitting in my junkbox and is waiting for
>> something to do. hi
>> I have got more of them. If i can't find any infos, then i will try to
>> build,for example, a Norton ampl. and compare it with one of my
>> favorites like 2N5109 But voltages and power are vitally to know.
>>
>> 73 Herb
>
> Gee! just save it for show.
>
Yeah for my grandchildren!
73 Herb


From 1580285589098699515
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Date: Thu, 30 Apr 2009 05:43:05 -0400
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Organization: http://home.earthlink.net/~mike.terrell/index.html
X-Mailer: Mozilla 4.8 [en] (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com> <64d06f97-d4a2-4917-a0cc-
d79f91d3a428@m19g2000yqk.googlegroups.com>
<q2kpu4dsupiopinf8qjuoi9o2thqgvr0mr@4ax.com> <9f7d92d4-041d-4f08-
bfdd-01951381986c@k2g2000yql.googlegroups.com>
<uncqu4dj507nvghk36og3koa9mfrq1k4rm@4ax.com>
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Content-Transfer-Encoding: 8bit
X-NewsProxy: 1.2.5
Message-ID: <5o6dnchnGeo372TUnZ2dnUVZ_rqdnZ2d@earthlink.com>
Lines: 57
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.110.34.161
X-Trace: sv3-c8D+DWPFSVeLXR86LVS16+y8X9wTyi2gUPZvctPo3D3F0ZtxhxdlW9b6UwJd+99vd/
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hnY3jkQiaih8bm1b7!+mcwLohn+z3GpURKuz/UJar/EWZWynUXLern/hA=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 3689
Xref: g2news2.google.com sci.electronics.design:95037
rec.radio.amateur.homebrew:2647
```

```
John Larkin wrote:
>
> On Mon, 20 Apr 2009 13:57:26 -0700 (PDT), Tim Shoppa
> <shoppa@trailing-edge.com> wrote:
>
> >On Apr 20, 3:44 pm, John Larkin
> ><jjSNIPlar...@highTHISlandtechnology.com> wrote:
> >> On Mon, 20 Apr 2009 12:23:53 -0700 (PDT), Tim Shoppa
> >>
> >> <sho...@trailing-edge.com> wrote:
> >> >On Apr 20, 1:10 pm, John Larkin
> >> ><jjSNIPlar...@highTHISlandtechnology.com> wrote:
```

```
> >>
> >> >>http://en.wikipedia.org/wiki/Superheterodyne_receiver
> >>
> >> >I saw that in Wikipedia too. I didn't believe it, it doesn't make
> >> >sense. Why not just call all radio frequencies and IF frequencies
> >> >above 20kHz "supersonic"? Then all radios (*) are supersonic, and
> >> >we're back to super meaning nothing at all.
> >>
> >> Possibly because heterodyne receivers mixed to sonic frequencies.
> >
> >I didn't really trust Wikipedia on this (it uses unusual language to
> >talk about perfectly conventional subjects) but I did find my December
> >1922 QST, and it says (page 11):
> >
> >  In December, 1919, Major E. H. Armstrong gave
> >  publicity to an indirect method of obtaining
> >  short-wave amplification, called the Super-
> >  Heterodyne. The idea is to reduce the incoming
> >  frequency which may be, say 1,500,000 cycles
> >  (200 meters), to some suitable super-audible
> >  frequency which can be amplified efficiently, then
> >  passing this current through a radio frequency
> >  amplifier and finally rectifying and carrying on
> >  to one or two stages of audio frequency
> >  amplification.
> >
> >To me that sounds a little less awkward and more natural than the
> >derivation that Wikipedia tries to draw.
> >
> >Tim N3QE
>
> I did like the wiki bit about people using hundred-tube TRF receivers.


   And the claim that a TRF receiver was simpler to use than a
super�heterodyne.  It makes you wonder if the author even knows how a
TRF receiver works.  Most had a separate knob per tuned circuit, since
the attempts at gear driven tuners didn't track very well.






--
You can't have a sense of humor, if you have no sense!


From -7895543582017602256
X-Google-Thread: 241b302a50,35e559760df009ea
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X-Google-Language: ENGLISH,ASCII-7-bit
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border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
```

nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 30 Apr 2009 05:21:26 -0500
Date: Thu, 30 Apr 2009 10:21:28 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Frequency doubling: Is bandpass filtering needed?
References: <am5Kl.287309$rp7.257557@en-nntp-02.dc1.easynews.com>
<IT6Kl.20051$as4.15894@nlpi069.nbdc.sbc.com>
In-Reply-To: <IT6Kl.20051$as4.15894@nlpi069.nbdc.sbc.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
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Message-ID: <0Lednb30Td065mTUnZ2dnUVZ_uidnZ2d@bright.net>
Lines: 13
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NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-oVvHOPhvl3n7t3i3/z4AMuGbAf463R6/AZhSje2ajPBgNMmg3N+BYwF2dIMVRQ/
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1575
Xref: g2news2.google.com rec.radio.amateur.homebrew:2648

Joerg wrote:

>
> BTW, in the olden days we preferred 3x, 5x per stage. Two 3x stages
> would give you 9x. The most brazen ones (not me) did a direct 7x or even
> 9x. We just drove transistors in class C real hard.

Or today, many of us just overdrive an untuned MMIC amplifier and filter
out the unwanted harmonics...

Scott
N0EDV

From -8027758958794101453
X-Google-Thread: 241b302a50,35e559760df009ea
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X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-
mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew

```
References: <am5Kl.287309$rp7.257557@en-nntp-02.dc1.easynews.com>
<IT6Kl.20051$as4.15894@nlpi069.nbdc.sbc.com>
<0Lednb30Td065mTUnZ2dnUVZ_uidnZ2d@bright.net>
Subject: Re: Frequency doubling: Is bandpass filtering needed?
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <a4fKl.81798$DP1.79105@attbi_s22>
NNTP-Posting-Host: 173.20.54.34
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X-Trace: attbi_s22 1241087366 173.20.54.34 (Thu, 30 Apr 2009 10:29:26 GMT)
NNTP-Posting-Date: Thu, 30 Apr 2009 10:29:26 GMT
Organization: AT&T ASP.att.net
Date: Thu, 30 Apr 2009 10:29:26 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2649

>> BTW, in the olden days we preferred 3x, 5x per stage. Two 3x stages would
>> give you 9x. The most brazen ones (not me) did a direct 7x or even 9x. We
>> just drove transistors in class C real hard.
>
> Or today, many of us just overdrive an untuned MMIC amplifier and filter
> out the unwanted harmonics...
>
> Scott
> N0EDV
>
And often have unwanted sometimes unfound parametric oscillations that have
nothing to do with harmonic content.

W4ZCB




From -3546746179258715298
X-Google-Thread: 241b302a50,3178fe034e7087f4
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 30 Apr 2009 05:47:49 -0500
Date: Thu, 30 Apr 2009 10:47:39 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Motorola transistor
References: <49f6fd80$0$2295$91cee783@newsreader02.highway.telekom.at>
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In-Reply-To: <30413868-b582-4c86-8f2f-90a8b97839f5@v35g2000pro.googlegroups.com>
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X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2325
Xref: g2news2.google.com rec.radio.amateur.homebrew:2650

JIMMIE wrote:
> I dont think SS was a house number. I remember using some of the SS
> transistors in my military days. If I am correct they were made in the
> 60s and are just long time obsolete.. The ones I remember were used in
> a servo amp for a mag tape drive and were bad about going out. When
> the drive would fail we almost immediately would change the SS
> transistors as a first course of troubleshooting since they were very
> easy to change(socketed) and usually the problem.
>
> Here is a list of transistor prefixes SS was used on Motorola silicon
> transistors:
>
> Here is a list of semiconductor prefixes.
>
> Pro electron A... (germanium)
> Prefixes in the Datenblattsammlung:AA... AC... AD... AE... AF... AS...
> OUTER ONE... AY...
> of the manufacturers: AEG Telefunken, SIEMENS, Sescosem>sgs thomson,
> VALVO>PHILIPS
etc ...etc

Tnx Jimmie for this list ....very useful

Frank   GM0CSZ / KN6WH


From 447643306465048957
X-Google-Thread: 241b302a50,b8985eb83f3a944a
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X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
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news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news7
From: Bill M <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimenting with Coils for Crystal Sets
Date: Thu, 30 Apr 2009 05:59:47 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 83
Message-ID: <gtc3rm086a@news7.newsguy.com>
References: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
     <jv2dnX42nKLOR27UnZ2dnUVZ_sydnZ2d@web-ster.com> <277330a1-b3f5-4246-
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In-Reply-To: <577bca64-c74f-4419-9781-23681fa8a95d@a5g2000pre.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2651

K7ITM wrote:
> On Apr 28, 5:20 am, Bill M <radioex...@geeemail.com> wrote:
>> K7ITM wrote:
>>> On Apr 27, 8:02 pm, Bill M <radioex...@geeemail.com> wrote:
>>>> K7ITM wrote:
>>>>> To put some numbers on what Paul suggested:
>>>>> If I want an unloaded coil Q of 2000 at 10MHz,
>>>> I stopped here.
>>>> I'd expect to need a....
>>>> No way you'll ever see 2000 Q at 10 Mcs. Can't happen. Some guys are
>>>> approaching 2000 at 1 MC BCB but there's lots of expensive hoops to jump
>>>> through to reach that point. Simply cannot be had at 10 Mcs. 200-300
>>>> on a good SW coil is about all that can be achieved.
>>> ...
>>> Interesting comment. In the filters I build for test fixtures, I use
>>> air-core coils that are about 1" diameter and 1" long, and they give
>>> me Qu in excess of 300 at 10MHz. For what I do, I don't need Qu up in
>>> the thousands, and don't have room for really big coils, but can you
>>> give me a reason I shouldn't expect Qu to scale linearly with size up
>>> to the point where radiation losses become significant?
>>> Can you tell me why I should think that the inductance calculator at
>>> http://hamwaves.com/antennas/inductance.htmlis not giving me accurate
>>> results when I put in, say, D=130mm, n=20, l=260mm, d=7mm, and
>>> f=10MHz? It agrees with other independent ways I have to estimate the
>>> Qu of the ~1 inch coils I build, and those coils measure within
>>> engineering tolerance of the estimates.
>> Self-capacitance (ultimately self-resonance) is always a contributing

>> factor that prevents coils from achieving their maximum theoretical Q.
>> Estimating coils whose Q is going to fall in the 200 range for other
>> reasons is relatively easy but that doesn't mean you can scale upwards
>> proportionately.
>>
>> I build air coils in the 3 inch range along the lines of what is
>> pictured here, http://www.sparkbench.com/homebrew/grebe/cr18.html
>>
>> They only *measure* in the 250 range. Silver-plated wire could
>> certainly improve a coil of this size but no way would you achieve
>> numbers like 2000.
>>
>> -Bill
>
> OK, I was curious. Was I way off-base, or is it reasonable to think
> that you can get a 10MHz Qu considerably higher than 250 (and possibly
> up in the stratosphere above 1000)? I'm not going to spend the time,
> effort and money to build a seriously large coil as the theory
> suggests I'd need, but I did wind a somewhat smaller one...
>
> I wound 15 turns of #10 AWG (2.55mm) bare copper with about 2.25
> inches ID and 3 inches long. I resonated it with 3 * 12pF C0G
> capacitors; it resonates at 9.088MHz. I coupled an output to an
> analyzer through 1pF tapped one turn up from the "cold" end, and
> loosely coupled an input from the analyzer's source using a one-turn
> loop spaced away from the coil. My back-of-the-envelope calculation
> says such a coil with air insulation should have a Qu around 740 at
> 9MHz. In a tank circuit, the finite Q of the capacitors will lower
> the tank Q below that value. What I actually measure is a 3dB
> bandwidth of 15.87kHz, for a tank Q of 572. OK, so that's a bit lower
> than I might have expected. BUT--this coil is wound on a length of
> black ABS drain pipe, which is an absolutely terrible thing to use as
> a coil form if you're trying to get the highest possible Q. (My plan
> was originally to take the coil off the form after I wound it, but it
> had too much of a mind of its own about what shape it was going to
> assume. I've wound some smaller self-supporting coils, but this one
> didn't work that way.)
>
> I'm convinced by this little 'speriment that I could build an LC tank
> resonant at 10MHz with a tank Q above 1000 with no trouble--and
> probably _well_ above 1000 if I used really high Q capacitors and just
> enough low-loss solid insulation to keep the coil turns properly
> spaced. I don't need one at the moment, but if I ever do, I sure
> won't be afraid to try it.
>
> Cheers,
> Tom

Ok, I admit to lowballing my practical estimates. I don't want to be argumentative about it but it the steps of increase become incrementally more difficult to obtain as you approach higher levels of Q. Never any harm in trying to make the best possible coil for the application.

Good luck with your projects!

-Bill

```
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X-Google-Thread: 241b302a50,e226e962528db0c1
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X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!s38g2000prg.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: interchangeable coils etc: new ideas for connectors?
Date: Thu, 30 Apr 2009 06:31:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 24
Message-ID: <5e6e9f89-d287-4d68-a4da-77da13b0e5c4@s38g2000prg.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 30 Apr 2009 13:31:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s38g2000prg.googlegroups.com; posting-host=170.121.14.12;
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User-Agent: G2/1.0
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     .NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2652
```

On Apr 29, 1:52=A0pm, spamhog <n1...@hotmail.com> wrote:

> QUESTIONS:
>
> - I don't recall seeing examples of this, including components or
> groups of components that are
> . =A0 =A0 =A0 =A0 * multiple
> . =A0 =A0 =A0 =A0 * functionally separate
> . =A0 =A0 =A0 =A0 * RF-segregated
> . =A0 =A0 =A0 =A0 * RF-hot at the same time
> . =A0 =A0 =A0 =A0 * at successive stages on a signal path
> . =A0 =A0 =A0 =A0 * on a single plug-in card.
>
> Other than the HRO drawers, are there any?

I think Ten-Tec has a HF transceiver with plug-in modules, I don't
know exactly what's in each module.

The Norcal Sierra is a pretty spiffy implementation of I think exactly

what you are talking about. URL for a handbook article with really
nice pictures:

http://www.arrl.org/tis/info/pdf/96hb1789.pdf

Tim.

From -1990354693541827693
X-Google-Thread: 241b302a50,35e559760df009ea
X-Google-Attributes: gid241b302a50,public,usenet
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X-Google-Language: ENGLISH,ASCII-7-bit
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prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi069.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Frequency doubling: Is bandpass filtering needed?
References: <am5Kl.287309$rp7.257557@en-nntp-02.dc1.easynews.com>
<IT6Kl.20051$as4.15894@nlpi069.nbdc.sbc.com>
<0Lednb30Td065mTUnZ2dnUVZ_uidnZ2d@bright.net> <a4fKl.81798$DP1.79105@attbi_s22>
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X-Trace: nlpi069.nbdc.sbc.com 1241108118 ST000 75.26.175.11 (Thu, 30 Apr 2009
12:15:18 EDT)
NNTP-Posting-Date: Thu, 30 Apr 2009 12:15:18 EDT
Organization: at&t http://my.att.net/
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Date: Thu, 30 Apr 2009 09:15:12 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2653

Harold E. Johnson wrote:
>>> BTW, in the olden days we preferred 3x, 5x per stage. Two 3x stages would
>>> give you 9x. The most brazen ones (not me) did a direct 7x or even 9x. We
>>> just drove transistors in class C real hard.
>> Or today, many of us just overdrive an untuned MMIC amplifier and filter
>> out the unwanted harmonics...
>>
>> Scott
>> N0EDV
>>
> And often have unwanted sometimes unfound parametric oscillations that have

> nothing to do with harmonic content.
>

If a huge drab-green truck stops in front of the house and folks in fatigues and army boots hop off then the unfound oscillation has been found ;-)

--
73, Joerg

From -9129202090104839473
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!198.186.194.249.MISMATCH!transit3.readnews.com!news-out.readnews.com!news-xxxfer.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info
Subject: Crossposting Permitted to rec.radio.amateur.moderated
Followup-To: poster
Date: 1 May 2009 02:00:03 -0400
Organization: rec.radio.amateur.moderated Moderation Team
Lines: 47
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 03 Jun 2009 02:00:01 -0000
Message-ID: <radio/ham-radio/moderated/crossposting-1-1241157601@panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com (rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1241157603 22010 166.84.1.2 (1 May 2009 06:00:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 1 May 2009 06:00:03 +0000 (UTC)
Summary: Short reminder for unmoderated newsgroups that crossposting is permitted
Keywords: FAQ, ham, amateur, radio, moderated, unmoderated, crossposting, permitted
Xref: g2news2.google.com rec.radio.amateur.antenna:11478 rec.radio.amateur.dx:380 rec.radio.amateur.equipment:1510 rec.radio.amateur.homebrew:2654 rec.radio.amateur.misc:4227 rec.radio.amateur.policy:26086 rec.radio.amateur.space:213 rec.radio.info:713

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider amending its charter, and permit limited simultaneous crossposting to rec.radio.amateur.moderated and one other unmoderated amateur-radio-related discussion newsgroup. We are currently trying this on a temporary basis (90 days, through early July 2009), and adopt it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either "radio.amateur" or "ham-radio" in their names, including uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

Please direct any comments, questions, or criticisms to rec-radio-amateur-moderated-request@panix.com.

From -383276986428224572
X-Google-Thread: 241b302a50,35e559760df009ea
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 01 May 2009 05:38:19 -0500
Date: Fri, 01 May 2009 10:38:24 +0000
From: Scott <acepilotREMOVE@bloomer.net>

User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Frequency doubling: Is bandpass filtering needed?
References: <am5Kl.287309$rp7.257557@en-nntp-02.dc1.easynews.com>
<IT6Kl.20051$as4.15894@nlpi069.nbdc.sbc.com>
<0Lednb30Td065mTUnZ2dnUVZ_uidnZ2d@bright.net>
In-Reply-To: <0Lednb30Td065mTUnZ2dnUVZ_uidnZ2d@bright.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <RvudnSG6sPGGTGfUnZ2dnUVZ_rCdnZ2d@bright.net>
Lines: 14
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
iPYDDiLyGvcr3cxNGVqbvPBfHwwVV9C3BLNwiyPfs2HCfxcfI8nyXJevJstyMtoVicuLJQ65Xrk8Xg8!
mAEhYC0X73sNBPlDECoLIl6ac6OoUF/CNxtAnc6yPkh51uSF4VDkhtZz7yCGzwCvq04D/OpbPNXY!
vKF3AVZvTg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2655

Scott wrote:

>
> Or today, many of us just overdrive an untuned MMIC amplifier and filter
> out the unwanted harmonics...
>
> Scott
> N0EDV
>

Or should I say, we filter to SELECT the harmonic we want....

Scott

From -8729925429697631901
X-Google-Thread: 241b302a50,35e559760df009ea
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 01 May 2009 05:39:21 -0500
Date: Fri, 01 May 2009 10:39:26 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Frequency doubling: Is bandpass filtering needed?
References: <am5Kl.287309$rp7.257557@en-nntp-02.dc1.easynews.com>
<IT6Kl.20051$as4.15894@nlpi069.nbdc.sbc.com>
<0Lednb30Td065mTUnZ2dnUVZ_uidnZ2d@bright.net> <a4fKl.81798$DP1.79105@attbi_s22>
In-Reply-To: <a4fKl.81798$DP1.79105@attbi_s22>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <RvudnSC6sPHETGfUnZ2dnUVZ_rCdnZ2d@bright.net>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
CILljGd8hzssqncmhUmfbzChGM2GcywlZrTigfv1ZB1L+DX+2hB+t6RN61jtbMV7TTc6wlMOOt6qGg0!
7vaCXwnciU7/0dqt7SEwBjslP30m4CS36x0zjAGEwK0Fjs6iavpKJ/VlirBy/uiL0jDpPd6dJGg4!
iA8yi+Iy8A==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1901
Xref: g2news2.google.com rec.radio.amateur.homebrew:2656

Harold E. Johnson wrote:
>>> BTW, in the olden days we preferred 3x, 5x per stage. Two 3x stages would
>>> give you 9x. The most brazen ones (not me) did a direct 7x or even 9x. We
>>> just drove transistors in class C real hard.
>> Or today, many of us just overdrive an untuned MMIC amplifier and filter
>> out the unwanted harmonics...
>>
>> Scott
>> N0EDV
>>
> And often have unwanted sometimes unfound parametric oscillations that have
> nothing to do with harmonic content.
>
> W4ZCB
>
>
Probably true, but the spectrum analyzer shows anything amiss fairly well ;)

Scott



From -2741765762063552665
X-Google-Thread: 241b302a50,35e559760df009ea
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
```

NNTP-Posting-Date: Fri, 01 May 2009 05:45:28 -0500
Date: Fri, 01 May 2009 10:45:32 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Frequency doubling: Is bandpass filtering needed?
References: <am5Kl.287309$rp7.257557@en-nntp-02.dc1.easynews.com>
<IT6Kl.20051$as4.15894@nlpi069.nbdc.sbc.com>
<0Lednb30Td065mTUnZ2dnUVZ_uidnZ2d@bright.net> <a4fKl.81798$DP1.79105@attbi_s22>
<q8kKl.20098$as4.2660@nlpi069.nbdc.sbc.com>
In-Reply-To: <q8kKl.20098$as4.2660@nlpi069.nbdc.sbc.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <ptudnSLcjuRVT2fUnZ2dnUVZ_rmdnZ2d@bright.net>
Lines: 33
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-eVP09dfNr3v+0EOzMb1e6D5tuJhu/
t58Cw3Vr431GG0xY24h82flsbKCJNlJgreXWPdKD5l33oF9plu!
ESlMZ4zFDght4oIe+dnVSTrarcZDsVgU7ctERQTqrI96ubzbWlOuFCCuUNgdZ0ljtmZONLzsFAAc!
uWLUZfrO/g==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2757
Xref: g2news2.google.com rec.radio.amateur.homebrew:2657

Joerg wrote:
> Harold E. Johnson wrote:
>>>> BTW, in the olden days we preferred 3x, 5x per stage. Two 3x stages
>>>> would give you 9x. The most brazen ones (not me) did a direct 7x or
>>>> even 9x. We just drove transistors in class C real hard.
>>> Or today, many of us just overdrive an untuned MMIC amplifier and
>>> filter out the unwanted harmonics...
>>>
>>> Scott
>>> N0EDV
>>>
>> And often have unwanted sometimes unfound parametric oscillations that
>> have nothing to do with harmonic content.
>>
>
> If a huge drab-green truck stops in front of the house and folks in
> fatigues and army boots hop off then the unfound oscillation has been
> found ;-)
>

Listening to all the "crap" on the bands these days, I doubt ANY truck
from the government would ever show up ;) However, that being said, as
hams, we all need to make sure our "house is clean"...now about all that
other "crap"...has anyone else noticed all the interference these days

```
on 2M from other sources of "spurious junk"???  Examples:  I pull up to
gas pumps and the squelch opens on my 2M radio...driving down the
Interstate, I pass semi trucks and get a static burst from the
speaker...Drive through town, listening to 145.19 and get static bursts
(this just happens to be a cable TV frequency...isn't the idea of cable
TV to keep the signals INSIDE the cable?)....

Scott
N0EDV



From -8969524104192564498
X-Google-Thread: 241b302a50,35e559760df009ea
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!nlpi057.nbdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi065.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Frequency doubling: Is bandpass filtering needed?
References: <am5Kl.287309$rp7.257557@en-nntp-02.dc1.easynews.com>
<IT6Kl.20051$as4.15894@nlpi069.nbdc.sbc.com>
<0Lednb30Td065mTUnZ2dnUVZ_uidnZ2d@bright.net> <a4fKl.81798$DP1.79105@attbi_s22>
<q8kKl.20098$as4.2660@nlpi069.nbdc.sbc.com>
<ptudnSLcjuRVT2fUnZ2dnUVZ_rmdnZ2d@bright.net>
In-Reply-To: <ptudnSLcjuRVT2fUnZ2dnUVZ_rmdnZ2d@bright.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 47
Message-ID: <woFKl.25774$c45.10239@nlpi065.nbdc.sbc.com>
NNTP-Posting-Host: 75.26.187.110
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi065.nbdc.sbc.com 1241195164 ST000 75.26.187.110 (Fri, 01 May 2009
12:26:04 EDT)
NNTP-Posting-Date: Fri, 01 May 2009 12:26:04 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
TSU[@I_A\S@GRQ\Y\ZJB^WTAUKXD@D@MGPW^OBPLAH[\RSAANVUEAE[YETZPIWWI[FCIZA^NBFXZ_D[BFN
TCNVPDTNTKHWXKB@X^B_OCJLPZ@ET_O[G\XSG@E\G[ZKVLBL^CJINM@I_KVIOR\T_M_AW_M[_BWU_HFA_]
@A_A^SGFAUDE_DFTMQPFWVW[QPJN
Date: Fri, 01 May 2009 09:25:57 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2658

Scott wrote:
> Joerg wrote:
>> Harold E. Johnson wrote:
>>>>> BTW, in the olden days we preferred 3x, 5x per stage. Two 3x stages
>>>>> would give you 9x. The most brazen ones (not me) did a direct 7x or
>>>>> even 9x. We just drove transistors in class C real hard.
```

>>>> Or today, many of us just overdrive an untuned MMIC amplifier and
>>>> filter out the unwanted harmonics...
>>>>
>>>> Scott
>>>> N0EDV
>>>>
>>> And often have unwanted sometimes unfound parametric oscillations
>>> that have nothing to do with harmonic content.
>>>
>>
>> If a huge drab-green truck stops in front of the house and folks in
>> fatigues and army boots hop off then the unfound oscillation has been
>> found ;-)
>>
>
> Listening to all the "crap" on the bands these days, I doubt ANY truck
> from the government would ever show up ;) However, that being said, as
> hams, we all need to make sure our "house is clean"...now about all that
> other "crap"...has anyone else noticed all the interference these days
> on 2M from other sources of "spurious junk"??? Examples: I pull up to
> gas pumps and the squelch opens on my 2M radio...driving down the
> Interstate, I pass semi trucks and get a static burst from the
> speaker...Drive through town, listening to 145.19 and get static bursts
> (this just happens to be a cable TV frequency...isn't the idea of cable
> TV to keep the signals INSIDE the cable?)....
>

Sure, but when you see how cable "professionals" handle stuff you'd get
the goose bumps. We don't have a cable subscription but a cable box down
the street. Often I see workers in the street and when walking the dogs
next day the lid on the green box is askew. Heck, often they didn't even
slide the lid all the way in, let alone lock it. Being a guy who can't
stand the sight of electronics just rotting and corroding away because
of neglect I always push it back on. Once the lid was completely off, it
rained and water was dripping from all the coaxes. This doesn't exactly
improve shielding effectiveness ;-)

--
Regards, Joerg

http://www.analogconsultants.com/

From -6819889393113213154
X-Google-Thread: 241b302a50,35e559760df009ea
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news.litech.org!not-for-mail
From: mikea <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Frequency doubling: Is bandpass filtering needed?

Date: Fri, 1 May 2009 11:55:29 -0500
Organization: Litech Systems Design
Lines: 52
Sender: mikea@mikea.ath.cx
Message-ID: <15mrc6-srb2.ln1@mikea.ath.cx>
References: <am5Kl.287309$rp7.257557@en-nntp-02.dc1.easynews.com>
<IT6Kl.20051$as4.15894@nlpi069.nbdc.sbc.com>
<0Lednb30Td065mTUnZ2dnUVZ_uidnZ2d@bright.net> <a4fKl.81798$DP1.79105@attbi_s22>
<q8kKl.20098$as4.2660@nlpi069.nbdc.sbc.com>
<ptudnSLcjuRVT2fUnZ2dnUVZ_rmdnZ2d@bright.net>
<woFKl.25774$c45.10239@nlpi065.nbdc.sbc.com>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1241196976 16539 70.164.65.62 (1 May 2009 16:56:16 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Fri, 1 May 2009 16:56:16 +0000 (UTC)
X-Approved: YouBetcherArse@example.com
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (FreeBSD/7.1-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:2659

Joerg <notthisjoergsch@removethispacbell.net> wrote in
<woFKl.25774$c45.10239@nlpi065.nbdc.sbc.com>:
> Scott wrote:
>> Joerg wrote:

>>> If a huge drab-green truck stops in front of the house and folks in
>>> fatigues and army boots hop off then the unfound oscillation has been
>>> found ;-)

>> Listening to all the "crap" on the bands these days, I doubt ANY truck
>> from the government would ever show up ;) However, that being said, as
>> hams, we all need to make sure our "house is clean"...now about all that
>> other "crap"...has anyone else noticed all the interference these days
>> on 2M from other sources of "spurious junk"??? Examples: I pull up to
>> gas pumps and the squelch opens on my 2M radio...driving down the
>> Interstate, I pass semi trucks and get a static burst from the
>> speaker...Drive through town, listening to 145.19 and get static bursts
>> (this just happens to be a cable TV frequency...isn't the idea of cable
>> TV to keep the signals INSIDE the cable?)....

> Sure, but when you see how cable "professionals" handle stuff you'd get
> the goose bumps. We don't have a cable subscription but a cable box down
> the street. Often I see workers in the street and when walking the dogs
> next day the lid on the green box is askew. Heck, often they didn't even
> slide the lid all the way in, let alone lock it. Being a guy who can't
> stand the sight of electronics just rotting and corroding away because
> of neglect I always push it back on. Once the lid was completely off, it
> rained and water was dripping from all the coaxes. This doesn't exactly
> improve shielding effectiveness ;-)

The FCC *does* sometimes pursue interference and leakage complaints
against cable companies. It may take a while to get them moving, but
there are NOVs (Notice of Violation)s filed by the FCC against some
cable companies with more leakage than allowed.

A fair number of cable techs are hams, too, though not all. Calling the cableco office and reporting interference, with a followup paper letter, generally will get someone's attention.

Around here (Central Oklahoma, EM15gf in particular), it's the LED traffic signals and the casino signs that put out hash. The traffic signals are bad up around 2 meters, and there's one casino sign that was taking everything from 40 (or 80) meters up through 2 meters.

HB content: I'm thinking of building one of the little receivers shown at <http://mikea.ath.cx/1-chip-rx.html/>, just for hunting QRM. Note: the second image has some editing performed on it to make some things a little clearer; the first one is as it came off EDN.

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From 2466326118239421777
X-Google-Thread: 241b302a50,35e559760df009ea
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-09.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <am5Kl.287309$rp7.257557@en-nntp-02.dc1.easynews.com> <IT6Kl.20051$as4.15894@nlpi069.nbdc.sbc.com> <0Lednb30Td065mTUnZ2dnUVZ_uidnZ2d@bright.net> <a4fKl.81798$DP1.79105@attbi_s22> <q8kKl.20098$as4.2660@nlpi069.nbdc.sbc.com> <ptudnSLcjuRVT2fUnZ2dnUVZ_rmdnZ2d@bright.net> <woFKl.25774$c45.10239@nlpi065.nbdc.sbc.com> <15mrc6-srb2.ln1@mikea.ath.cx>
Subject: Re: Frequency doubling: Is bandpass filtering needed?
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <j6SKl.263276$UR4.132721@en-nntp-09.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Fri, 1 May 2009 23:54:06 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2660

"mikea" <mikea@mikea.ath.cx> wrote in message news:15mrc6-srb2.ln1@mikea.ath.cx...

> HB content: I'm thinking of building one of the little receivers shown
> at <http://mikea.ath.cx/1-chip-rx.html/>, just for hunting QRM.

I like his sentence, "you can do only so much work on a notebook computer with no reference material around." Wow -- 1997, before ubiquitous high-speed Internet access (...reference material on pretty much anything you want in seconds...) in airports was available! And it doesn't even seem that long ago now!

I suspect taking a radio like that to an airport these days is also going to get you a lot of close scrutiny going through security... so I like your idea of using it for QRM hunting.

```
From -267439989306161528
X-Google-Thread: 241b302a50,35e559760df009ea
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!
news.bellsouth.net!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 02 May 2009 07:06:30 -0500
Date: Sat, 02 May 2009 12:06:33 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Frequency doubling: Is bandpass filtering needed?
References: <am5Kl.287309$rp7.257557@en-nntp-02.dc1.easynews.com>
<IT6Kl.20051$as4.15894@nlpi069.nbdc.sbc.com>
<0Lednb30Td065mTUnZ2dnUVZ_uidnZ2d@bright.net> <a4fKl.81798$DP1.79105@attbi_s22>
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<woFKl.25774$c45.10239@nlpi065.nbdc.sbc.com> <15mrc6-srb2.ln1@mikea.ath.cx>
<j6SKl.263276$UR4.132721@en-nntp-09.dc1.easynews.com>
In-Reply-To: <j6SKl.263276$UR4.132721@en-nntp-09.dc1.easynews.com>
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Content-Transfer-Encoding: 7bit
Message-ID: <d9CdnUsWUJvbqmHUnZ2dnUVZ_vidnZ2d@bright.net>
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X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
qpm8ILaTAaHlKafDFp+eACYyV+dzVYuwWPucgdaaty5sO89MrDmSTATT+zOLk+CxZ2gJrsiZpCWdpFi!
iHkO2r4zAcQPO32RiKQ59dooMTMnE8bltTn53A/i0ZRGuDGJ69hDXLfZVvRF2M4OWaYtmyOna77y!
swOKRHnMgg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

```
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2661
```

Joel Koltner wrote:

>
> I suspect taking a radio like that to an airport these days is also going to
> get you a lot of close scrutiny going through security...
>
>

Speaking of getting "jacked up" by "the man"...try setting up a dish for
10 GHz these days at a county park...been there, done that ;)

Scott, N0EDV
Still buildin' stuff for the microwave bands (for me and for others)...
http://corbenflyer.tripod.com/

```
From -5142540802211900137
X-Google-Thread: da6537b9fb,156f06aab74a6426
X-Google-Attributes: gidda6537b9fb,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!m24g2000vbp.googlegroups.com!not-for-
mail
From: "bill.meara@gmail.com" <bill.meara@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Join the Most Exclusive Club on 20M!
Date: Sat, 2 May 2009 09:42:40 -0700 (PDT)
Organization: http://groups.google.com
Lines: 41
Message-ID: <f52bebc0-8b95-46f9-8e1e-3dcb0ac00180@m24g2000vbp.googlegroups.com>
References: <gt01u2$grg$1@panix2.panix.com>
NNTP-Posting-Host: 93.45.195.140
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1241282560 30406 127.0.0.1 (2 May 2009 16:42:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 2 May 2009 16:42:40 +0000 (UTC)
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Injection-Info: m24g2000vbp.googlegroups.com; posting-host=93.45.195.140;
     posting-account=ePxsiwkAAACeKyenV1cL73nSaGPyDy3Q
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.0.9)
     Gecko/2009040821 Firefox/3.0.9,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2662
rec.radio.amateur.boatanchors:2835
```

On Apr 25, 11:13=A0pm, klu...@panix.com (Scott Dorsey) wrote:

> Perhaps you've heard of the Colorburst Club, that elite band of 80M
> hams that hang out around the colorburst frequency using homebrew rigs

> and crystals scrapped from old TV sets.
>
> Now is your chance to become a part of a group so much more restricted
> that perhaps you've never heard of it before. =A0You see, 14.31818 is
> a standard microprocessor clock frequency, and consequently there are
> surplus crystals available for it, right in the middle of the soon to
> be active twenty-meter amateur band. =A0And you can join the specialized
> and esoteric bunch who hang out there.
>
> All you need to do is send me $1 for your pair of 14.31818 MHz crystals,
> and you can do with them what you like. =A0You can use them in your own
> homebrew QRP rig, or in an exciter driving a commercial transmitter to
> the legal limit. =A0There's no end to the fun you can have when you have
> the power and the glory of being able to hang out with the best of the
> best on 14.31818. =A0These crystals are made of genuine quartz, carefully
> A-T cut by anonymous and unknown craftsmen in a distant land, and then
> lapped to frequency with actual abrasives. =A0You can use them to talk
> anywhere in the world.
>
> Once you're on 14.31818 you'll be one of a tight group of people so
> secret that nobody knows who they are. =A0Other clubs issue certificates
> of membership, but the 14.31818 club is SO SECRET that we won't give
> it away that you're a member by issuing a certificate. =A0Only you will
> know for sure that you have the honor of being a member.
>
> Is this whole thing actually a ploy for me to unload a lot of surplus
> microprocessor crystals? =A0Of course. =A0My wife is threatening to throw
> them out if I don't get them out of the living room. =A0But that in no
> way diminishes the importance of this club. =A0So don't delay, send your
> money now.
> --scott
>
> --
> "C'est un Nagra. =A0C'est suisse, et tres, tres precis."

Scott: Great idea, but with the rocks on the operating freq I think
you need to use either AM or DSB. I recommend the latter.   Go for
it! 73 Bill I0/N2CQR

From -3785890191457294294
X-Google-Thread: 241b302a50,35e559760df009ea
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!nlpi057.nbdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
flpi144.ffdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Frequency doubling: Is bandpass filtering needed?

```
References: <am5Kl.287309$rp7.257557@en-nntp-02.dc1.easynews.com>
<IT6Kl.20051$as4.15894@nlpi069.nbdc.sbc.com>
<0Lednb30Td065mTUnZ2dnUVZ_uidnZ2d@bright.net> <a4fKl.81798$DP1.79105@attbi_s22>
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<ptudnSLcjuRVT2fUnZ2dnUVZ_rmdnZ2d@bright.net>
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<j6SKl.263276$UR4.132721@en-nntp-09.dc1.easynews.com>
In-Reply-To: <j6SKl.263276$UR4.132721@en-nntp-09.dc1.easynews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 45
Message-ID: <AD0Ll.13288$jZ1.11084@flpi144.ffdc.sbc.com>
NNTP-Posting-Host: 75.26.187.160
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi144.ffdc.sbc.com 1241290336 ST000 75.26.187.160 (Sat, 02 May 2009
14:52:16 EDT)
NNTP-Posting-Date: Sat, 02 May 2009 14:52:16 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
[[PAPDCA[S@GRQ\Y\ZJB^WTAUKXD@D@MGPW^OBPLAH[\RWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
TINTDDMVW[X\THOPXZRVOCJTUTPC\_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Sat, 02 May 2009 11:52:06 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2663
```

Joel Koltner wrote:
> "mikea" <mikea@mikea.ath.cx> wrote in message
> news:15mrc6-srb2.ln1@mikea.ath.cx...
>> HB content: I'm thinking of building one of the little receivers shown
>> at <http://mikea.ath.cx/1-chip-rx.html/>, just for hunting QRM.
>
> I like his sentence, "you can do only so much work on a notebook computer with
> no reference material around." Wow -- 1997, before ubiquitous high-speed
> Internet access (...reference material on pretty much anything you want in
> seconds...) in airports was available! And it doesn't even seem that long ago
> now!
>

I don't agree with Steve there. In the early 90's I regularly carried my trusty old Compaq Contura 410 on longhaul flights. And I sure was glad it allowed up to 6 hours on a battery charge. Did a lot of schematics, module specs and so on. Seen many business execs with their high faluting IBM laptops fold'em because their batteries were at zilch, grumpily watching me plugging along until 2nd mealtime.

The trick was to place asterisks in the document whenever I could not complete something because I didn't have the datasheet right there. At the destination I'd then go from one asterisk to the next and complete the module spec. Same for new non-lib CAD parts where I didn't have the pinout, I just placed an asterisk in the schematic. One can get a whole lot of work done at an airport or during a flight.

Nowadays you can carry tens of thousands of PDF datasheets on the hard drive of your laptop. Easily the equivalent of a large book shelf full of databooks.

> I suspect taking a radio like that to an airport these days is also going to
> get you a lot of close scrutiny going through security... so I like your idea
> of using it for QRM hunting.
>

I was lazy and just bought a Realistic Jetstream pocket radio. $30 or $40, looks like a normal pocket radio but has regular AM plus airband, no FM.

--
Regards, Joerg

http://www.analogconsultants.com/

From 4166143091694051244
X-Google-Thread: 241b302a50,e226e962528db0c1
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,CP1252
Path: g2news2.google.com!postnews.google.com!l5g2000vbc.googlegroups.com!not-for-mail
From: spamhog <n1jpr@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: interchangeable coils etc: new ideas for connectors?
Date: Sat, 2 May 2009 14:29:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <1ee468e1-9abe-441c-9fdf-be9d04bb18be@l5g2000vbc.googlegroups.com>
References: <61c894eb-4b55-4c3b-9451-e670ca139f6a@a5g2000pre.googlegroups.com>
     <5e6e9f89-d287-4d68-a4da-77da13b0e5c4@s38g2000prg.googlegroups.com>
NNTP-Posting-Host: 93.33.105.239
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1241299779 15951 127.0.0.1 (2 May 2009 21:29:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 2 May 2009 21:29:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l5g2000vbc.googlegroups.com; posting-host=93.33.105.239;
     posting-account=tuTwjgoAAABgsw0HP7EbLMV3yMd8jh4C
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.64 (X11; Linux i686; U; en) Presto/2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2664

Thank you Tim, problem solved. As you said the Sierra multiband CW transceiver proves the viability of edgecards for plug-in band-specific subassemblies, the article even points out how simpler the

plug-in implementation is, compared to the switching solutions for the
same problem, citing Wayne Burdick, N6KR's older Safari-4.

After a bit of checking, the current sockets are these:
- Manufacturer: www.sullinscorp.com p.n. EBM25DRXH
- Digi-Key: p.n. S3355-ND

PBT/Phosphor Bronze, Contact Surface: .000010=94 Gold
Termination: .000100=94 Pure Tin, Matte
.156=94 [3.96mm] Contact Centers
50 total contacts, Dual Readout
.200=94 [5.08mm] Row Spacing; .137=94[3.48] Long Dip Solder, straight
Mounting With .125" Hole

Pretty sure I can find similar edgecards & sockets around here.

Thanks again.

Filippo

```
From 9133253399121757441
X-Google-Thread: 241b302a50,d6daf85b243020bc
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!n8g2000vbb.googlegroups.com!not-for-
mail
From: tack1@flash.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: XTAL Radio Receiver Circuits
Date: Sat, 2 May 2009 20:09:57 -0700 (PDT)
Organization: http://groups.google.com
Lines: 75
Message-ID: <14a3bd99-066f-4ae9-983c-6112e7198fe9@n8g2000vbb.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 3 May 2009 03:09:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n8g2000vbb.googlegroups.com; posting-host=68.91.129.39;
     posting-account=nhfLowkAAAAhJaiA0nU4Ur6n5GsqUwkb
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152;
     .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2665
```

On Apr 24, 7:35=A0pm, Bill M <radioex...@geeemail.com> wrote:
> David wrote:
> > On Apr 20, 1:34 pm, David <DavidBR...@gmail.com> wrote:
> >> Looking for Crystal Radio Receiver Circuits, that have a voltage
> >> quadrupler to increase headphone volume without batteries or AC power.
>
> > On my original post i was, and still looking for a quadrupler circuit,
> > not information on why it does not work.
>
> Sorry. =A0Frankly I've never seen one but I guess you could lash somethin=
g
> together easy enough. =A0May try asking over at the Rap-n-Tap forum. =A0I=
f
> anybody knows of one that group would surely know.
>
> Rgds,
> Bill

Greetings; I just happened upon this discussion while searching for more crystal set information. I've tinkered with "free power" sets back in the seventies, and am currently an experimenter/collector with/of vintage radio. It is possible to build voltage triplers and quadruplers for crystal radio, but it isn't practical. No one does it since it doesn't work very well. Pretty crappy.too much loss in diodes Waste of time. BUT, certain full wave set-ups DO work and work quite well. There has been much engineering and engineer-speak concerning crystal radio. Much SPICE work, much analysis's, many mathematical equations. But there appears to be a paradigm going on that makes it verboten to consider the lost cycle. Standard crystal sets (and those that use several detector diodes in parallel like the schottky 2380) are half wave rectifiers. What about the other half of the Electromagnetic wave? Half the potential power of the radio wave is gone, wasted. It can be recovered and utilized. But it must be done correctly. At any given cycle the current must flow through one diode, and only one (I'm considering multiple diodes in parallel as one here). So bridge rectifiers are out. Triplers and quads are out. You can use a coil with a center tap, essentially two half-wave rectifiers, each one detecting half the signal. Another way that works is making a half-wave voltage doubler. Imagine a standard crystal diode set-up; tank coil on the left, diode at the top with cathode line to the right facing the 'phones, and the anode end facing left towards the coil. Now add a fairly large capacitor, mica or low-loss metal film or poly inserted between the diode's anode and the coil. The system still works as a standard crystal set; except for a little capacitive reactance, the signal passes along as usual. Now picture a second diode with it's cathode end connected to the connection between the capacitor and the first diodes anode. Again, this setup works like a standard crystal radio, when the cycle is positive. But now, when the cycle turns negative, instead of the negative cycle being blocked by the first diode and being wasted, the negative cycle is "shorted" out by the second diode, and goes to ground. Shunted to ground, but not wasted. The capacitor now has a charge on it equal to the RMS value of the wave times the square root of 2, or 1.414. It's been charged. Electrons are piled up on the right hand side of the capacitor, towards the anode end of the first diode. Now when the signal swings positive again, the electrons of the signal pass around through the negative/ground side, through the 'phones, through the cathode end of the first diode, and out the anode of the first diode, where they encounter the capacitor. It doesn't exactly work like this, but this is a good way to get the picture. Anyway, the electrons going out the anode end encounter the capacitor where electrons are piled up/stored on the capacitor's plate facing the anode end of the diode. The two charges combine, nearly doubling the power.

Try at least a 1000 (.001 uf) picofarad capacitor. Some folk use 5000 or a .01uf. You should still use a filter cap across the 'phones, like about 500p.

I've seen where people have built such a circuit, and claim it's no good. One such circuit only had a 30p capacitor. Of course it didn't work! There's nothing new about this type of voltage doubler that makes use of the other half of the wave. There's nothing new about a full-wave rectifier using two diodes (one for each wave cycle) and a center-tapped coil. it's been published back in the early 20th century. With a good antenna you can drive a high-impedance speaker!

```
From 5010134148092645401
X-Google-Thread: 241b302a50,d6daf85b243020bc
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
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news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news5
From: Bill M <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: XTAL Radio Receiver Circuits
Date: Sun, 03 May 2009 18:57:13 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 34
Message-ID: <gtlehd025o3@news5.newsguy.com>
References: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
     <6a26629a-3cea-4890-9fe9-a58d0b6592c0@t21g2000yqi.googlegroups.com>
     <gstlrl01jsk@news4.newsguy.com>
<14a3bd99-066f-4ae9-983c-6112e7198fe9@n8g2000vbb.googlegroups.com>
NNTP-Posting-Host: p75aaa6a32a77fc136350d4038459bc6edbf9bbf169993b19.newsdawg.com
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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
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In-Reply-To: <14a3bd99-066f-4ae9-983c-6112e7198fe9@n8g2000vbb.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2666
```

tack1@flash.net wrote:

> What about the other half of
> the Electromagnetic wave? Half the potential power of the radio wave
> is gone, wasted. It can be recovered and utilized. But it must be
> done correctly.

Hi tack. I've seen you on some of the other forums.

No disagreement in that you can recover the other half and add things together. I offered the full-wave centre-tapped coil as an example.

But that only works for humble 'local station' circuitry.

How can we do the same thing for low-level/high selectivity circuits? I dunno. The predominant thinking is that you get the voltage 'gain' by going to the moon with hi-q rf circuitry which is at odds with a bunch of diodes configured as a multiplier because of the loading factor. Or having some other mass of wire on the same coil form. Kills the Q and consequently kills off the voltage gain.

Now if a guy has enough room...I'm only being partly facetious...to have tuned circuit A separated far enough away from tuned circuit B (or C or D) he could probably find a way to combine them. A good hi-q circuit might require 12 inches plus of physical isolation. I've not seen anybody approach it that way . Probably because the expense and effort of multiple tanks is mitigated by less effort on a good single tank.

Crystal sets remain to be a fascinating 'open book' for experimentation.

-Bill

From 3176359637969972359
X-Google-Thread: 241b302a50,35e559760df009ea
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X-Google-NewGroupId: yes
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From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <am5Kl.287309$rp7.257557@en-nntp-02.dc1.easynews.com>
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<AD0Ll.13288$jZ1.11084@flpi144.ffdc.sbc.com>

Subject: Re: Frequency doubling: Is bandpass filtering needed?
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <s8JLl.278599$UR4.78867@en-nntp-09.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Mon, 4 May 2009 14:31:03 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2667

"Joerg" <notthisjoergsch@removethispacbell.net> wrote in message news:AD0Ll.13288$jZ1.11084@flpi144.ffdc.sbc.com...
> I don't agree with Steve there. In the early 90's I regularly carried my
> trusty old Compaq Contura 410 on longhaul flights.

...and I bet your 50MHz 486SX2 seemed just as fast with the software you were using at the time as your 1.6GHz netbook does now? ;-)

> And I sure was glad it allowed up to 6 hours on a battery charge. Did a lot
> of schematics, module specs and so on. Seen many business execs with their
> high faluting IBM laptops fold'em because their batteries were at zilch,
> grumpily watching me plugging along until 2nd mealtime.

Some of them might have considered the shorter battery life a *feature*, you know. "Well, I did what I could on the annual report until the battery died, at which point I decided to see how good the stewardesses were at making martinis!"

---Joel

From -670417038777250298
X-Google-Thread: 241b302a50,35e559760df009ea
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!flpi144.ffdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Frequency doubling: Is bandpass filtering needed?
References: <am5Kl.287309$rp7.257557@en-nntp-02.dc1.easynews.com>

```
<IT6Kl.20051$as4.15894@nlpi069.nbdc.sbc.com>
<0Lednb30Td065mTUnZ2dnUVZ_uidnZ2d@bright.net> <a4fKl.81798$DP1.79105@attbi_s22>
<q8kKl.20098$as4.2660@nlpi069.nbdc.sbc.com>
<ptudnSLcjuRVT2fUnZ2dnUVZ_rmdnZ2d@bright.net>
<woFKl.25774$c45.10239@nlpi065.nbdc.sbc.com> <15mrc6-srb2.ln1@mikea.ath.cx>
<j6SKl.263276$UR4.132721@en-nntp-09.dc1.easynews.com>
<AD0Ll.13288$jZ1.11084@flpi144.ffdc.sbc.com> <s8JLl.278599$UR4.78867@en-
nntp-09.dc1.easynews.com>
In-Reply-To: <s8JLl.278599$UR4.78867@en-nntp-09.dc1.easynews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 41
Message-ID: <JsJLl.14784$jZ1.14030@flpi144.ffdc.sbc.com>
NNTP-Posting-Host: 75.26.166.205
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi144.ffdc.sbc.com 1241473961 ST000 75.26.166.205 (Mon, 04 May 2009
17:52:41 EDT)
NNTP-Posting-Date: Mon, 04 May 2009 17:52:41 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
OX[MR\OGRZRUBRH]^JKBOW@@YJ_ZTB\MV@BT]_MIJQR@EPIB_VUKAH_[MTX\IS[K[NGYJJFNOFZR_G[BUN
TAOQLFE^TEHRPI]PZZRP_BMDSFQFL_]CBHXRWCMDCUZAZN@D_AKMNLEI]MWHCSXL^]NNC__CZFGSGHYYXW
PFG@SCAVA]\FT\@B\RDGENSUQS^M
Date: Mon, 04 May 2009 14:52:30 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2668

Joel Koltner wrote:
> "Joerg" <notthisjoergsch@removethispacbell.net> wrote in message
> news:AD0Ll.13288$jZ1.11084@flpi144.ffdc.sbc.com...
>> I don't agree with Steve there. In the early 90's I regularly carried my
>> trusty old Compaq Contura 410 on longhaul flights.
>
> ...and I bet your 50MHz 486SX2 seemed just as fast with the software you were
> using at the time as your 1.6GHz netbook does now? ;-)
>

Ok, strictly DOS on business trips. There was no need for more, and
besides PDF viewing and stuff there still isn't. OrCad-SDT, MS-Word 5.0,
CompuServe email client, PSpice, some filter simulators, beam profile
calculator. What more could mankind want?


>> And I sure was glad it allowed up to 6 hours on a battery charge. Did a lot
>> of schematics, module specs and so on. Seen many business execs with their
>> high faluting IBM laptops fold'em because their batteries were at zilch,
>> grumpily watching me plugging along until 2nd mealtime.
>
> Some of them might have considered the shorter battery life a *feature*, you
> know.  "Well, I did what I could on the annual report until the battery died,
> at which point I decided to see how good the stewardesses were at making
> martinis!"
>
```

Oh, I had my brewskys, cognac and the occasional bloody mary while using
the laptop. Of course, nowadays it's easier since I have that
spill-proof Durabook laptop that is almost mil-spec. The old Compaq
began to physically disintegrate after roughly 1/2 million miles,
courtesy of a few really rough flights and landings. At the end the
battery kept falling out of it.

--
Regards, Joerg

http://www.analogconsultants.com/

"gmail" domain blocked because of excessive spam.
Use another domain or send PM.

From 8019918641149523043
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!transit3.readnews.com!
news-out.readnews.com!news-xxxfer.readnews.com!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Join the Most Exclusive Club on 20M!
Date: 4 May 2009 21:50:03 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 12
Message-ID: <gto60b$qgv$1@panix2.panix.com>
References: <gt01u2$grg$1@panix2.panix.com>
<f52bebc0-8b95-46f9-8e1e-3dcb0ac00180@m24g2000vbp.googlegroups.com>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1241488203 13629 166.84.1.2 (5 May 2009 01:50:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 5 May 2009 01:50:03 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2669
rec.radio.amateur.boatanchors:2848

bill.meara@gmail.com <bill.meara@gmail.com> wrote:
>
>Scott: Great idea, but with the rocks on the operating freq I think
>you need to use either AM or DSB. I recommend the latter.   Go for
>it! 73 Bill I0/N2CQR

That's why if you order now you get this FREE MODULATION TRANSFORMER.
Postage and oil disposal fees not included.
--scott

--
"C'est un Nagra. C'est suisse, et tres, tres precis."

From -820243009346260647
X-Google-Thread: da6537b9fb,156f06aab74a6426
X-Google-Attributes: gidda6537b9fb,public,usenet

```
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 04 May 2009 22:07:32 -0500
Date: Tue, 05 May 2009 03:07:43 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Join the Most Exclusive Club on 20M!
References: <gt01u2$grg$1@panix2.panix.com>
<f52bebc0-8b95-46f9-8e1e-3dcb0ac00180@m24g2000vbp.googlegroups.com>
<gto60b$qgv$1@panix2.panix.com>
In-Reply-To: <gto60b$qgv$1@panix2.panix.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Ca-dnUZxW97oMGLUnZ2dnUVZ_oVi4p2d@bright.net>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-a1S9g0/rjH8PPzLfD9e/taGAuwUNXeBIHyVpPl0lomTQKboOvkdjoKEfPMKkLe5klm/
hXqT1hQrL7gU!/zSiJZxW+RDLAC1UPKnFpweuZ6e6ugJg953gTGa/
C4rBzUmj377aKWQQ+SFBPXb45FscRh5Lv7+I!KkvKSmBWbA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1864
Xref: g2news2.google.com rec.radio.amateur.homebrew:2670
rec.radio.amateur.boatanchors:2849

Scott Dorsey wrote:
> bill.meara@gmail.com <bill.meara@gmail.com> wrote:
>> Scott:  Great idea, but with the rocks on the operating freq I think
>> you need to use either AM or DSB.  I recommend the latter.   Go for
>> it!  73  Bill I0/N2CQR
>
> That's why if you order now you get this FREE MODULATION TRANSFORMER.
> Postage and oil disposal fees not included.
> --scott
>
I'm in an even more exclusive 20M club.  The "I never operate 20M club"
  Seriously!  Every time I listen on 20M, sounds like a
cesspool...oops...let me don my asbestos underwear...

Scott
Mainly 6M-10 GHz



From 6155995157630603823
```

X-Google-Thread: 241b302a50,ac2d6d5f74c352e3,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 06 May 2009 22:07:03 -0500
Date: Thu, 07 May 2009 03:07:16 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: WSJT Users...
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <TIqdnQ4tddHKzZ_XnZ2dnUVZ_tWdnZ2d@bright.net>
Lines: 7
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-UcxatS0p8eQ615/UsVW37PTxfX76LwePPFB3+gc6x68T5LuWujqCjv/
hM79gQdEqG8ez1NKon9zRASd!eFSEIp9KhRfYR7/
siThMC6x9pmH05UGhl05ijYuuirayCY9OvmURe4J21Wlfc5lVqvBtYE00Zql2!3pl6/LYNxg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1307
Xref: g2news2.google.com rec.radio.amateur.homebrew:2671

Wondering if any of you who use Dimesion 4 software to keep the PC clock
accurate, have you noticed that it appears the site (tick.usno.navy.mil)
that is used for time updates is down??? My last correction was on 29
April 2009. Keeps timing out. Anyone else see this?

Scott
N0EDV

From 3655792176692843638
X-Google-Thread: 241b302a50,ac2d6d5f74c352e3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-
me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!
nwrddc02.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <TIqdnQ4tddHKzZ_XnZ2dnUVZ_tWdnZ2d@bright.net>
Subject: Re: WSJT Users...

```
Lines: 9
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <gAsMl.4900$b11.3921@nwrddc02.gnilink.net>
Date: Thu, 07 May 2009 03:29:16 GMT
NNTP-Posting-Host: 173.55.72.113
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1241666956 173.55.72.113 (Wed, 06 May 2009 23:29:16
EDT)
NNTP-Posting-Date: Wed, 06 May 2009 23:29:16 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2672

> Wondering if any of you who use Dimesion 4 software to keep the PC clock
> accurate, have you noticed that it appears the site (tick.usno.navy.mil)
> that is used for time updates is down???  My last correction was on 29
> April 2009.  Keeps timing out.  Anyone else see this?
>
> Scott
> N0EDV

Make sure your firewall allows it.  Check your logs.  The site works for me.


From 8302836451850116642
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-out.readnews.com!
transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1239084301@panix.com>
Followup-To: poster
Date: 7 May 2009 02:05:00 -0400
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 09 Jun 2009 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1241676300@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1241676301 13275 166.84.1.2 (7 May 2009 06:05:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 7 May 2009 06:05:01 +0000 (UTC)
```

Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
X-Original-Bytes: 2709
Xref: g2news2.google.com rec.radio.amateur.antenna:11672 rec.radio.amateur.dx:389 rec.radio.amateur.equipment:1523 rec.radio.amateur.homebrew:2673 rec.radio.amateur.misc:4244 rec.radio.amateur.policy:26141 rec.radio.info:724

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

From 7903027361380103270
X-Google-Thread: 241b302a50,ac2d6d5f74c352e3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 07 May 2009 05:32:29 -0500
Date: Thu, 07 May 2009 10:32:29 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WSJT Users...
References: <TIqdnQ4tddHKzZ_XnZ2dnUVZ_tWdnZ2d@bright.net>
<gAsMl.4900$b11.3921@nwrddc02.gnilink.net>
In-Reply-To: <gAsMl.4900$b11.3921@nwrddc02.gnilink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <CZSdnWoz66YjJZ_XnZ2dnUVZ_t2dnZ2d@bright.net>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-xeJx1yWjdXU96RWQlsovqGRnlGT+lmtz/
dt4oqxDfJkrqDoIKOlAF59bU+7sOLBcfecUWppppQS+GGi!
W930hSixTTYTJwuo208zmUlrCDISrJ+nfxvJgTLahxW53g5HV5ctmUTwOyvIaFpvajkYZWAx+uoF!
if4kTP0jKA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1773
Xref: g2news2.google.com rec.radio.amateur.homebrew:2674

JB wrote:
>> Wondering if any of you who use Dimesion 4 software to keep the PC clock
>> accurate, have you noticed that it appears the site (tick.usno.navy.mil)
>> that is used for time updates is down??? My last correction was on 29
>> April 2009. Keeps timing out. Anyone else see this?
>>
>> Scott
>> N0EDV
>
> Make sure your firewall allows it. Check your logs. The site works for me.

Hmmm...mine used to work. In fact, it was working fine up until April
29th...I selected a different site (St. Paul, MN) last night and it is
updating normally...

Scott
N0EDV

From -2636854800191324689
X-Google-Thread: 241b302a50,ac2d6d5f74c352e3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!news-out.octanews.net!indigo.octanews.net!news-1.mpls.iphouse.net.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WSJT Users...
From: Bert Hyman <bert@iphouse.com>
References: <TIqdnQ4tddHKzZ_XnZ2dnUVZ_tWdnZ2d@bright.net>
Organization: Not that you'd notice
Message-ID: <Xns9C044F530754FVeebleFetzer@216.250.184.7>
User-Agent: Xnews/2006.08.24
Date: 07 May 2009 12:47:52 GMT
Lines: 15
NNTP-Posting-Date: 07 May 2009 07:47:52 CDT
NNTP-Posting-Host: 927b53c9.newsreader.iphouse.net
X-Trace: DXC=Fj5ZailFR[1ahdnY2iP9G1UU[C:R=]Mb:eHS>e[L>830_6<?F3cWVD:c230oU7d711X7@2h;nGb4=]gmQFFQ]QM2
X-Complaints-To: abuse@iphouse.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:2675

In news:TIqdnQ4tddHKzZ_XnZ2dnUVZ_tWdnZ2d@bright.net Scott <acepilotREMOVE@bloomer.net> wrote:

> Wondering if any of you who use Dimesion 4 software to keep the PC clock
> accurate, have you noticed that it appears the site (tick.usno.navy.mil)
> that is used for time updates is down??? My last correction was on 29
> April 2009. Keeps timing out. Anyone else see this?

I just changed my config to point to that server and it's working OK for me.

I usually use my ISP's own time server.

--
Bert Hyman   St. Paul, MN bert@iphouse.com

From 3488152791987836567
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!eweka.nl!lightspeed.eweka.nl!newsfeed.xs4all.nl!newsfeed5.news.xs4all.nl!xs4all!news.stack.nl!aioe.org!fmmck
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WSJT Users...
Date: Thu, 07 May 2009 14:34:02 -0400
Organization: Aioe.org NNTP Server
Lines: 12
Message-ID: <fmmck-12C8D2.14340107052009@nntp.aioe.org>
References: <TIqdnQ4tddHKzZ_XnZ2dnUVZ_tWdnZ2d@bright.net>
NNTP-Posting-Host: aJtSTy+8diLv03FK/d3yAA.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Thu, 7 May 2009 18:34:05 +0000 (UTC)
X-Notice: Filtered by postfilter v. 0.7.8

Cancel-Lock: sha1:xIfw8yFNvDpV8OBhmlCZ8qUHv3Q=
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2676

In article <TIqdnQ4tddHKzZ_XnZ2dnUVZ_tWdnZ2d@bright.net>,
 Scott <acepilotREMOVE@bloomer.net> wrote:

> it appears the site (tick.usno.navy.mil)
> that is used for time updates is down

Scott-

If tick is down, try tock.usno.navy.mil.

Fred
K4DII

From -7889021146358290989
X-Google-Thread: 241b302a50,ac2d6d5f74c352e3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 08 May 2009 04:56:00 -0500
Date: Fri, 08 May 2009 09:55:59 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WSJT Users...
References: <TIqdnQ4tddHKzZ_XnZ2dnUVZ_tWdnZ2d@bright.net>
<Xns9C044F530754FVeebleFetzer@216.250.184.7>
In-Reply-To: <Xns9C044F530754FVeebleFetzer@216.250.184.7>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <CfudnbmMMcEtnJnXnZ2dnUVZ_h2dnZ2d@bright.net>
Lines: 19
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-pqlp3+FMVpg1UOBCGwlEQVVsSzED2/gg7I1n+fLODd0YeuZJx0v/JD4h9uMblB7GE/
LlbrRGsJ1BwB+!
QMyg27Zylf0P6ZlcvA5LoIGVGqEfIMdltD9hkFmOxcOUSjjry2Wbi83ZIybhHketb17RFA8f7W6Q!
30Yt5qx90A==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2034
Xref: g2news2.google.com rec.radio.amateur.homebrew:2677

Bert Hyman wrote:
> In news:TIqdnQ4tddHKzZ_XnZ2dnUVZ_tWdnZ2d@bright.net Scott
> <acepilotREMOVE@bloomer.net> wrote:
>
>> Wondering if any of you who use Dimesion 4 software to keep the PC clock
>> accurate, have you noticed that it appears the site (tick.usno.navy.mil)
>> that is used for time updates is down??? My last correction was on 29
>> April 2009. Keeps timing out. Anyone else see this?
>
> I just changed my config to point to that server and it's working OK for
> me.
>
> I usually use my ISP's own time server.
>

Hi Bert,
Thanks...I suspect it's something with my ISP. I have lots of these
things happening...someone sends me a link to a webpage and I copy/paste
the address and it says it can't find the site yet it seems everyone
else can. I changed to the nss.nts.umn.edu site and it's working fine.

```
From 474310660965479481
X-Google-Thread: 241b302a50,ac2d6d5f74c352e3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 08 May 2009 05:02:57 -0500
Date: Fri, 08 May 2009 10:02:56 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WSJT Users...
References: <TIqdnQ4tddHKzZ_XnZ2dnUVZ_tWdnZ2d@bright.net>
<fmmck-12C8D2.14340107052009@nntp.aioe.org>
In-Reply-To: <fmmck-12C8D2.14340107052009@nntp.aioe.org>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <E_-dnXXp1cbMnpnXnZ2dnUVZ_rSdnZ2d@bright.net>
Lines: 27
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
hgzAH73wyEaLKRvLH6QS3E8r2xgm5z5nYyufTI11xdeY6hgfDrO3EhK5AWjtDk7arpbt43DHeRYhRTq!
FRkVEPkD7TaCzsYJvqiaDsqXeNko7UHSGVX/MGN1J/mEmn9RpcUJyfET0IwBe3mmhdE1N5s59QKn!
Wvkgbw/PqQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
```

```
X-Original-Bytes: 2185
Xref: g2news2.google.com rec.radio.amateur.homebrew:2678

Fred McKenzie wrote:
> In article <TIqdnQ4tddHKzZ_XnZ2dnUVZ_tWdnZ2d@bright.net>,
>  Scott <acepilotREMOVE@bloomer.net> wrote:
>
>> it appears the site (tick.usno.navy.mil)
>> that is used for time updates is down
>
> Scott-
>
> If tick is down, try tock.usno.navy.mil.
>
> Fred
> K4DII
Hi Fred,
Actually, I did that with the same results.  Several others didn't seem
to work, but I found one in St. Paul, MN that works fine.  Others have
reported that "tick" is working fine for them.  I suspect something with
my ISP as I have had quite a few problems viewing websites that others
send me a link to and I get the "site could not be found" error message.
  I've called my ISP and they say that everything is working OK.  Some
have suggested my firewall may be blocking sites, etc., but the tick
site had been working fine up until April 29th when I got the last
update and I haven't dinked around with any router settings here for
ages...mystifying :(

Scott
N0EDV



From -6351158413133251476
X-Google-Thread: 241b302a50,ac2d6d5f74c352e3
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!u9g2000pre.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WSJT Users...
Date: Fri, 8 May 2009 04:47:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 57
Message-ID: <7213cca2-d4bc-4bf5-a8f9-abcc56e1edda@u9g2000pre.googlegroups.com>
References: <TIqdnQ4tddHKzZ_XnZ2dnUVZ_tWdnZ2d@bright.net>
<fmmck-12C8D2.14340107052009@nntp.aioe.org>
     <E_-dnXXp1cbMnpnXnZ2dnUVZ_rSdnZ2d@bright.net>
NNTP-Posting-Host: 76.226.138.86
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
```

```
X-Trace: posting.google.com 1241783240 17424 127.0.0.1 (8 May 2009 11:47:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 8 May 2009 11:47:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u9g2000pre.googlegroups.com; posting-host=76.226.138.86;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.10)
     Gecko/2009042316 Firefox/3.0.10 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2679
```

On May 8, 6:02=A0am, Scott <acepilotREM...@bloomer.net> wrote:

```
> Fred McKenzie wrote:
> > In article <TIqdnQ4tddHKzZ_XnZ2dnUVZ_tWdn...@bright.net>,
> > =A0Scott <acepilotREM...@bloomer.net> wrote:
>
> >> it appears the site (tick.usno.navy.mil)
> >> that is used for time updates is down
>
> > Scott-
>
> > If tick is down, try tock.usno.navy.mil.
>
> > Fred
> > K4DII
>
> Hi Fred,
> Actually, I did that with the same results. =A0Several others didn't seem
> to work, but I found one in St. Paul, MN that works fine. =A0Others have
> reported that "tick" is working fine for them. =A0I suspect something wit=
h
> my ISP as I have had quite a few problems viewing websites that others
> send me a link to and I get the "site could not be found" error message.
> =A0 I've called my ISP and they say that everything is working OK. =A0Som=
e
> have suggested my firewall may be blocking sites, etc., but the tick
> site had been working fine up until April 29th when I got the last
> update and I haven't dinked around with any router settings here for
> ages...mystifying :(
>
> Scott
> N0EDV
```

Hey OM:

I likes to use tcpdump, or the GUI version Wireshark. These baby's are great sniffers I found a java problem I had once, because of a setting in a router, I had no control over. Seems someone got the great idea to block ICMP protocol going thru the router. It was this very protocol that java used to acknowledge the extension of the MTU from the max allowable 1500 to a larger MTU. My computer would sit there waiting forever for that acknowledgment it was never going to get. Later I found out why ICMP was blocked. As the router had been taken down by a denial of service request attack via ICMP. Lowering the MTU on my computer to allow for java to extend the lower MTU without having to do a ICMP request, fixed the trouble. I ended up using 1300 MTU.

Then there's whois, it's possible you have the IP addy stored away in the program and it doesn't use a DNS to look up the IP addy and the mil site may have changed the IP addy in which case your program won't find the site it was looking for. Your browser will find it if it's using a DNS to look up the site. But if the settings are right/wrong it is possible for the browser to use a cached IP addy that would be stale, and so you don't go to where you wanted to go.

73 OM
de n8zu

From 4069747159662778217
X-Google-Thread: 241b302a50,fa9d79a1f390ba71,start
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
feed.cgocable.net!read2.cgocable.net.POSTED!53ab2750!not-for-mail
From: " Tuuk" <nealr9000@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Homebrew antenna question please?
Lines: 37
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
Message-ID: <dCfNl.37974$D9.32038@read2.cgocable.net>
Date: Sat, 9 May 2009 09:32:56 -0400
NNTP-Posting-Host: 24.226.69.101
X-Complaints-To: news@cogeco.net
X-Trace: read2.cgocable.net 1241875977 24.226.69.101 (Sat, 09 May 2009 09:32:57
EDT)
NNTP-Posting-Date: Sat, 09 May 2009 09:32:57 EDT
Organization: Cogeco Cable
Xref: g2news2.google.com rec.radio.amateur.homebrew:2680

Hi

Hope I can get some advice from the experts about my antenna.

I have a 50ft self supporting tower, my goal is to put 2 antennas up. One dipole and one omni.

I have an old omni direction antenna that I wish to put at the top, it has 3 traps in it with no writting on it so I am not sure what bands it will be suitable for however I have a pretty good tuner so I can use it on most bands. I also have one of those brackets that allows me to use ground planes with it, 4 ground planes aluminum and longest possible is what I try because the wind brings them down fast.

Second is a simple dipole, I think it is 60 foot each side or little more however it hangs over the trees on each side so it isn't perfectly straight. It is connected to a ladder line then connected to my tuner then my Drake TR7.

These two seem to work OK for me in the past, I hope for some advice on these and please answer the following questions.

1- Any idea what the omni direction antenna with the three traps is for which bands? It is about 22ft long with the three traps on the bottom half, old aluminum antenna.

2- What about those ground planes? Are they necessary?

3- On the dipole, I have a 1:1 balun in the garage, should I use this with the dipole? The antenna tuner already has some device to balance so is it necessary for the other balun? Someone told me it is so I must ask.

any advice would be great,,, thanks

Neal

From 5733993822170732301
X-Google-Thread: 241b302a50,fa9d79a1f390ba71
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news.litech.org!not-for-mail
From: mikea <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew antenna question please?
Date: Sat, 9 May 2009 09:49:08 -0500
Organization: Litech Systems Design
Lines: 13
Sender: mikea@mikea.ath.cx
Message-ID: <4ohgd6-ndk.ln1@mikea.ath.cx>
References: <dCfNl.37974$D9.32038@read2.cgocable.net>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1241880616 25895 70.164.65.62 (9 May 2009 14:50:16 GMT)
X-Complaints-To: usenet@litech.org

NNTP-Posting-Date: Sat, 9 May 2009 14:50:16 +0000 (UTC)
X-Approved: YouBetcherArse@example.com
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (FreeBSD/7.1-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:2681

Tuuk <nealr9000@yahoo.com> wrote in <dCfNl.37974$D9.32038@read2.cgocable.net>:

> 1- Any idea what the omni direction antenna with the three traps is for
> which bands? It is about 22ft long with the three traps on the bottom half,
> old aluminum antenna.

Can you borrow an MFJ 259 or equivalent gadget? It will tell you where
the antenna is resonant. I use mine a *lot* for things like this.

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From -7388996252653217657
X-Google-Thread: fc2a5,d6daf85b243020bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe14.iad.POSTED!7564ea0f!not-for-mail
From: "Unca Pete" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
<eaidnT16IoW_aHHUnZ2dnUVZ_v6dnZ2d@web-ster.com> <75703417-7862-44fb-
b43f-11e09f7e9e17@w35g2000prg.googlegroups.com> <gsm23e0qvc@news3.newsguy.com>
<a28cb646-5ebd-4d82-92e8-1595a364fab8@y10g2000prc.googlegroups.com>
<VmPHl.69696$GU6.51002@newsfe09.iad> <d6c7702a-5b2d-4eeb-9e71-
f85635f2dcb1@x29g2000prf.googlegroups.com> <yY4Il.82101$TD1.68906@newsfe18.iad>
<gsr0mu02502@news3.newsguy.com>
Subject: Re: XTAL Radio Receiver Circuits
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <DY7Il.50051$Qh6.18452@newsfe14.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe14.iad 1240533923 68.229.77.6 (Fri, 24 Apr 2009 00:45:23 UTC)
NNTP-Posting-Date: Fri, 24 Apr 2009 00:45:23 UTC
Organization: Cox
Date: Thu, 23 Apr 2009 20:45:13 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2582

"Bill M" <radioexray@geeemail.com> wrote in message > Basically true but in fairness to the folks who have never tried it you
> MAY get some additional volume on a reasonably strong local station. You
> shoot your selectivity and ultimate sensitivity in the foot, though,
> because of the extra loading on the tank. ie, not a DX set.
>
> There's one circuit floating around that uses a dual center-tapped tank
> (so to speak) with a diode on each side and their outputs are combined.
> One fellow said it worked pretty well as a workaround for the loading
> concern.   Still not a DXers set but better than attempting a voltage
> doubling detector.
>
> -Bill

Basically a fullwave rectifier?

I'd still opt for a quality matching transformer, and go for the max.
volume if that is the goal.

Pete

From 7981343896598819526
X-Google-Thread: fc2a5,d814ddbd924d1874
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-01.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <d8ef4a43-b0b4-44e1-bebe-aa2d8c6397eb@l9g2000vba.googlegroups.com> <757ef230-3bbd-4de6-9126-2fa6f772f0d2@y6g2000prf.googlegroups.com> <gsm2hi0rb1@news3.newsguy.com> <A7JHl.130838$BR.72251@en-nntp-04.dc1.easynews.com>
Subject: Re: Headphone Impedance
Lines: 3
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <428Il.13958$nC7.4099@en-nntp-01.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Thu, 23 Apr 2009 17:51:10 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2583

Thanks guys, I appreciate the history lesson and the links!

From 1214301747633211535
X-Google-Thread: fc2a5,c28ceab18268e02e,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-03.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Source for high-Q HF inductors
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <Bb8Il.215669$UQ6.79164@en-nntp-03.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Thu, 23 Apr 2009 18:01:17 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2584

Are there some vendors of readily available (stock) inductors that have reasonably good Q's (>100) throughout the HF band?

I'm familiar with something like the Coilcraft "maxi springs" (http://coilcraft.com/maxi.cfm), and while they hit Q's of 100 by 30MHz, I'd really like something that's already there by 3MHz or less (...and still have a self-resonant frequency of >30MHz). This seems quite doable simply by making a larger coil with thicker wire, I'd just like to find a place that offers such inductors off-the-shelf rather than having to wind my own. Inductance in the ballpark of 1-10uH would be good, although it's not critical.

The goal here is to try out making some adjustable notch filters for a receiver (by switching L's and C's in and out, like antenna tuners do). Hence, high Q is important, but power handling capability isn't so much, and anything smaller than a breadbox is fine size-wise.

Thanks,
---Joel

From -5309234539689391508
X-Google-Thread: fc2a5,d6daf85b243020bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!newsp.newsguy.com!news4
From: Bill M <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: XTAL Radio Receiver Circuits
Date: Thu, 23 Apr 2009 20:26:29 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 37
Message-ID: <gsr80p02kcb@news4.newsguy.com>
References: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com> <eaidnT16IoW_aHHUnZ2dnUVZ_v6dnZ2d@web-ster.com> <75703417-7862-44fb-b43f-11e09f7e9e17@w35g2000prg.googlegroups.com> <gsm23e0qvc@news3.newsguy.com> <a28cb646-5ebd-4d82-92e8-1595a364fab8@y10g2000prc.googlegroups.com> <VmPHl.69696$GU6.51002@newsfe09.iad> <d6c7702a-5b2d-4eeb-9e71-f85635f2dcb1@x29g2000prf.googlegroups.com> <yY4Il.82101$TD1.68906@newsfe18.iad> <gsr0mu02502@news3.newsguy.com> <DY7Il.50051$Qh6.18452@newsfe14.iad>
NNTP-Posting-Host: p84d1bfbfff000000049802d754a7a7dd21cd850bb3e40c5c.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
In-Reply-To: <DY7Il.50051$Qh6.18452@newsfe14.iad>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2585

Unca Pete wrote:
> "Bill M" <radioexray@geeemail.com> wrote in message > Basically true but in
> fairness to the folks who have never tried it you
>> MAY get some additional volume on a reasonably strong local station. You
>> shoot your selectivity and ultimate sensitivity in the foot, though,
>> because of the extra loading on the tank. ie, not a DX set.
>>
>> There's one circuit floating around that uses a dual center-tapped tank
>> (so to speak) with a diode on each side and their outputs are combined.
>> One fellow said it worked pretty well as a workaround for the loading
>> concern.   Still not a DXers set but better than attempting a voltage
>> doubling detector.
>>
>> -Bill
>
> Basically a fullwave rectifier?
>
> I'd still opt for a quality matching transformer, and go for the max.
> volume if that is the goal.
>
> Pete
>
>
Yabbut...max volume isn't the same as max sensitivity in DX sets. Its
only one part of the scheme. I used the term "house of mirrors" in all
seriousness. You upgrade the xfmr to a certain point then you need a
diode that performs to that level and then you need to upgrade the tank

to that level...and so it goes. Thats why high performance crystal radios are so fascinating. And they really are. I've logged Brasilians at 3500 miles away.

The guys who are top-scoring in the annual 'test' are logging 100-200 stations. You get there with selectivity and sensitivity...and patience with good ears. No doubling, tripling, quadrupling circuits are in the mix. They don't pan out. Its all well documented.

-Bill

```
From 8819436030334435161
X-Google-Thread: fc2a5,c28ceab18268e02e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!f41g2000pra.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Source for high-Q HF inductors
Date: Thu, 23 Apr 2009 21:29:42 -0700 (PDT)
Organization: http://groups.google.com
Lines: 67
Message-ID: <7924a886-adee-484e-8828-046f46e3fa9b@f41g2000pra.googlegroups.com>
References: <Bb8Il.215669$UQ6.79164@en-nntp-03.dc1.easynews.com>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240547382 4032 127.0.0.1 (24 Apr 2009 04:29:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 24 Apr 2009 04:29:42 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f41g2000pra.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.8)
     Gecko/2009032609 Firefox/3.0.8,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2289

On Apr 23, 6:01=A0pm, "Joel Koltner" <zapwireDASHgro...@yahoo.com>
wrote:
> Are there some vendors of readily available (stock) inductors that have
> reasonably good Q's (>100) throughout the HF band?
>
> I'm familiar with something like the Coilcraft "maxi springs"
> (http://coilcraft.com/maxi.cfm), and while they hit Q's of 100 by 30MHz, =
I'd
> really like something that's already there by 3MHz or less (...and still =
have
> a self-resonant frequency of >30MHz). =A0This seems quite doable simply b=
y
```

> making a larger coil with thicker wire, I'd just like to find a place tha=
t
> offers such inductors off-the-shelf rather than having to wind my own.
> Inductance in the ballpark of 1-10uH would be good, although it's not
> critical.
>
> The goal here is to try out making some adjustable notch filters for a
> receiver (by switching L's and C's in and out, like antenna tuners do).
> Hence, high Q is important, but power handling capability isn't so much, =
and
> anything smaller than a breadbox is fine size-wise.
>
> Thanks,
> ---Joel

You'll be limited by physics, Joel...I know you know that, but I think it's worth putting bounds on things. If you're willing to use a coil on a powdered iron core, you should be able to get the sort of Qu you're asking for in a fairly compact coil. If you want to order production quantities, you can easily find vendors willing to wind specific coils for you, but if you want just one or a few, you may have more difficulty. I've had situations where I wanted to avoid the distortion of a powdered iron core, and used some "air core" coils (actually phenolic, I think) from API Delevan and equivalent ones from Gowanda. They were "stock" values, but I learned that they commonly build them when they get an order, but try to have a few around they can ship as samples. But again, they aren't as high Q as you want at the lower HF frequencies.

For an air-core coil at HF, you can estimate the size required for a given Qu pretty accurately as Qu =3D 100 * D(inches) * sqrt(f(MHz)). That's about right for a coil the same length as its diameter. There's a chart in the Sams/ITT Reference Data for Engineers book that gives essentially a correction for the length, if it's shorter or longer than that. At lower frequencies (AM broadcast band, and up to a very few MHz) you can do a bit better with the appropriate Litz wire. Anyway, for example at 4MHz, expect to need an air-core coil about 1/2 inch diameter to get Qu around 100.

It used to be that you could buy a supply of AirDux or equivalent coil stock, and just cut off the number of turns you needed for some specific inductance. My answer to that these days is to thread some plastic tube on a lathe, and have a few different thread pitches around, then just wind magnet wire down in the groove to get what I need "on demand." It's easy to do the winding and makes a nice, uniform-looking coil. I've used that technique to make sets of coils for reasonably sharp cutoff bandpass, lowpass and highpass filters with very low distortion that I've used to characterize the distortion performance of amplifiers and the like.

Sorry that I don't have a better source of ready-made coils...maybe someone else has.

Cheers,
Tom

```
From -3151593079904836847
X-Google-Thread: fc2a5,d6daf85b243020bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!t21g2000yqi.googlegroups.com!not-for-
mail
From: David <DavidBR549@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: XTAL Radio Receiver Circuits
Date: Fri, 24 Apr 2009 06:05:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 6
Message-ID: <6a26629a-3cea-4890-9fe9-a58d0b6592c0@t21g2000yqi.googlegroups.com>
References: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
NNTP-Posting-Host: 216.79.54.210
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240578339 25335 127.0.0.1 (24 Apr 2009 13:05:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 24 Apr 2009 13:05:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t21g2000yqi.googlegroups.com; posting-host=216.79.54.210;
     posting-account=p0TJ8QoAAAC8u-pFGl8koNnuPbGXl0aa
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR
     3.0.04506.648),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2587
```

On Apr 20, 1:34=A0pm, David <DavidBR...@gmail.com> wrote:
> Looking for Crystal Radio Receiver Circuits, that have a voltage
> quadrupler to increase headphone volume without batteries or AC power.

On my original post i was, and still looking for a quadrupler circuit,
not information on why it does not work.

```
From 426782493936962193
X-Google-Thread: fc2a5,c28ceab18268e02e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!2dc089b5!not-for-
mail
From: "John KD5YI" <groups2_dot_jocjo@xoxy.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Bb8Il.215669$UQ6.79164@en-nntp-03.dc1.easynews.com> <7924a886-
```

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adee-484e-8828-046f46e3fa9b@f41g2000pra.googlegroups.com>
Subject: Re: Source for high-Q HF inductors
Lines: 55
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-Antivirus: avast! (VPS 090423-0, 04/23/2009), Outbound message
X-Antivirus-Status: Clean
Message-ID: <agjIl.2609$b11.1481@nwrddc02.gnilink.net>
Date: Fri, 24 Apr 2009 13:37:10 GMT
NNTP-Posting-Host: 173.64.203.137
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1240580230 173.64.203.137 (Fri, 24 Apr 2009 09:37:10
EDT)
NNTP-Posting-Date: Fri, 24 Apr 2009 09:37:10 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2588


"K7ITM" <k7itm@msn.com> wrote in message
news:7924a886-adee-484e-8828-046f46e3fa9b@f41g2000pra.googlegroups.com...
On Apr 23, 6:01 pm, "Joel Koltner" <zapwireDASHgro...@yahoo.com>
wrote:
> Are there some vendors of readily available (stock) inductors that have
> reasonably good Q's (>100) throughout the HF band?
>
> I'm familiar with something like the Coilcraft "maxi springs"
> (http://coilcraft.com/maxi.cfm), and while they hit Q's of 100 by 30MHz,
> I'd
> really like something that's already there by 3MHz or less (...and still
> have
> a self-resonant frequency of >30MHz). This seems quite doable simply by
> making a larger coil with thicker wire, I'd just like to find a place that
> offers such inductors off-the-shelf rather than having to wind my own.
> Inductance in the ballpark of 1-10uH would be good, although it's not
> critical.
>
> The goal here is to try out making some adjustable notch filters for a
> receiver (by switching L's and C's in and out, like antenna tuners do).
> Hence, high Q is important, but power handling capability isn't so much,
> and
> anything smaller than a breadbox is fine size-wise.
>
> Thanks,
> ---Joel

(snip some of Tom's good stuff)
```

"It used to be that you could buy a supply of AirDux or equivalent coil stock, and just cut off the number of turns you needed for some specific inductance. My answer to that these days is to thread some plastic tube on a lathe, and have a few different thread pitches around, then just wind magnet wire down in the groove to get what I need "on demand." It's easy to do the winding and makes a nice, uniform-looking coil. I've used that technique to make sets of coils for reasonably sharp cutoff bandpass, lowpass and highpass filters with very low distortion that I've used to characterize the distortion performance of amplifiers and the like."

"Sorry that I don't have a better source of ready-made coils...maybe someone else has."

Cheers,
Tom

Apparently, AirDux is still available:

http://www.airdux.com/

73,
John

From 5749103030492240994
X-Google-Thread: fc2a5,c28ceab18268e02e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!v4g2000vba.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Source for high-Q HF inductors
Date: Fri, 24 Apr 2009 07:57:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 44
Message-ID: <93c0014d-1694-47ae-afec-348946a09ded@v4g2000vba.googlegroups.com>
References: <Bb8Il.215669$UQ6.79164@en-nntp-03.dc1.easynews.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240585046 14304 127.0.0.1 (24 Apr 2009 14:57:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 24 Apr 2009 14:57:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v4g2000vba.googlegroups.com; posting-host=170.121.14.12;
posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0

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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB5;
     .NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2589

On Apr 23, 9:01=A0pm, "Joel Koltner" <zapwireDASHgro...@yahoo.com>
wrote:
> Are there some vendors of readily available (stock) inductors that have
> reasonably good Q's (>100) throughout the HF band?
>
> I'm familiar with something like the Coilcraft "maxi springs"
> (http://coilcraft.com/maxi.cfm), and while they hit Q's of 100 by 30MHz, =
I'd
> really like something that's already there by 3MHz or less (...and still =
have
> a self-resonant frequency of >30MHz). =A0This seems quite doable simply b=
y
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> critical.
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> receiver (by switching L's and C's in and out, like antenna tuners do).
> Hence, high Q is important, but power handling capability isn't so much, =
and
> anything smaller than a breadbox is fine size-wise.

I usually design my filters to work reasonably well with lowish Q
inductors, say 100, so that I don't have to ever worry about the
actual Q. My rough measurements is that a Q of 100 is reasonably
reached using ferrite toroids not too far off from their optimal
frequencies etc. But some have done very good measurements of many
different coil types in search of extremely high Q inductors, the best
writeup I know is at:

  http://w7zoi.net/coilq.pdf

His conclusion was that Q's of 300's over an octave or two on ferrite
cores are very practical.

Other experiments and measurements he does go through Litz wire, Litz
rope, spider coils, etc. achieving some spectacularly high Q's.

I don't think any of this helps your "off the shelf" requirement, but
ferrite cores work well within their frequency range.

Tim N3QE


From 8765376055649313135
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
```

X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g19g2000vbi.googlegroups.com!not-for-mail
From: "aj-smith@blueyonder.co.uk" <aj-smith@blueyonder.co.uk>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Fri, 24 Apr 2009 09:38:12 -0700 (PDT)
Organization: http://groups.google.com
Lines: 37
Message-ID: <53e718dd-5ce7-4795-b716-ac16d6f483b8@g19g2000vbi.googlegroups.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
NNTP-Posting-Host: 82.32.50.77
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240591092 1524 127.0.0.1 (24 Apr 2009 16:38:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 24 Apr 2009 16:38:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g19g2000vbi.googlegroups.com; posting-host=82.32.50.77;
posting-account=auFIiAoAAABtic_Yn8z8E8BJaCm33hnL
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-GB; rv:1.9.0.9)
Gecko/2009040821 Firefox/3.0.9,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:93591
rec.radio.amateur.homebrew:2590

On Apr 20, 5:50=A0pm, Tim Shoppa <sho...@trailing-edge.com> wrote:
> A terminology question I suppose about the derivation of the term
> "Superheterodyne" more than anything else:
>
> Does the "Super" actually mean anything? Is there a Subheterodyne?
>
> Traditionally superhets mix a higher radio frequency down to a lower
> IF frequency, but certainly in the past few decades radios with IF's
> above the RF frequency have become very common in broadband
> applications, and those are still called superhets, not subhets :-).
>
> Google turns up a couple hits on subheterodyne but other than one that
> might mean "IF higher in frequency than RF" I don't recognize what
> they mean..
>
> I suspect that "Super" was more a marketing term than anything
> else :-).
>
> Tim N3QE

I think that the way to answer a question like this is to try to find
written material which originated as close as possible in time to the
introduction of the term in question. Wikki entries should give
references to original material, but of course those are not always
easy for everyone to find, and to study.

The best that I can do in the way of original references with the books on my shelves is to quote from the 'Admiralty Handbook of Wireless Telegraphy 1931', HMSO, London, 1932. On page 721 is written - '... This use of amplification at a frequency intermediate between that of the incoming signal and an audible frequency gives this circuit its name of super-heterodyne, or supersonic heterodyne receiver'.

The discussion goes on to describe an Admiralty receiver having an IF frequency of 30kHz, which is just what you would expect a supersonic frequency to be. To my mind this settles the question. Andy G4OEP

```
From 7042827485046087381
X-Google-Thread: fc2a5,d6daf85b243020bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!n4g2000vba.googlegroups.com!not-for-mail
From: "aj-smith@blueyonder.co.uk" <aj-smith@blueyonder.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: XTAL Radio Receiver Circuits
Date: Fri, 24 Apr 2009 09:59:08 -0700 (PDT)
Organization: http://groups.google.com
Lines: 129
Message-ID: <d550659d-dabf-47cc-92b3-ba0a4a39a257@n4g2000vba.googlegroups.com>
References: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
NNTP-Posting-Host: 82.32.50.77
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 24 Apr 2009 16:59:09 +0000 (UTC)
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Injection-Info: n4g2000vba.googlegroups.com; posting-host=82.32.50.77;
     posting-account=auFIiAoAAABtic_Yn8z8E8BJaCm33hnL
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-GB; rv:1.9.0.9)
     Gecko/2009040821 Firefox/3.0.9,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2294
```

On Apr 20, 7:34=A0pm, David <DavidBR...@gmail.com> wrote:

> Looking for Crystal Radio Receiver Circuits, that have a voltage
> quadrupler to increase headphone volume without batteries or AC power.

Hi David - I think this idea will not work well for the reasons others have already given - (a) the forward voltage drop of the diodes (2 instead of 1) which means that you must have an rf signal of around 1.2v instead of just 0.6v before you hear anything at all, and (b) the question of the availability of power. A quadrupler will not increase the very small amount of power picked up by the aerial.

However, all is not lost. Other enthusiasts have been at work with a crystal set which uses a 'zero gate-threshold' FET as a form of passive synchrodyne detector. The incoming signal opens and closes the conducting channel of the fet at the same frequency as the signal applied to the earphones through the channel (they are both the same signal). This give synchronous mixing and hence detection of the rf envelope. The advantage is that the fet has low and high impedances in the right places (low channel impedance, high gate impedance) and so is highly efficient.

Forgive the long posting, but here is something copied from the GQRP Yahoo group, with references. Andy G4OEP

Hi to everyone on the list,

For those who have been following the "High sensitivity Crystal Set" and "More ham xtal set DX heard tonight on 80m" threads on this list I should like to share my recent experiences/observations using the ALD110900A device as a synchronous detector/crystal receiver.

The high sensitivity crystal set was featured again in the current Rad-Com (June 2007 edition, page 60) and the RSGB have made available a limited number of the ALD110900A devices on a first-come-first-served basis via RSGB sales. I obtained a small number of the ALD110900A devices so I could compare the performance to the 2N3819 jfet which I had been using in my version of the receiver based on the design by David Cripe (NE4AM) in his article "Nostagia For The Future" (Amateur Radio Today, Dec. 1995 pages 14-16) a copy of which can be found on this web page...

http://members.wideband.net.au/gzimmer/XtalSets/Detectors/FET1.html

The article referenced above was the inspiration for the more recent article in the January edition of QST, a copy of the QST article appears here...

www.arrl.org/qst/2007/01/culter.pdf

Observations/Comments:
I found the best results are obtained using the design described by David Cripes (NE4AM) in his 1995 article. His use of two tapped tuned circuits (band pass filter arangement) permits precise matching of both the antenna and the load, both of which are vital for best crystal set performance. In operation I found the receiver to perform very well with resuls comparable to a BC receiver, seperation of stations was readily achieved with good volume and loud enough for this "deaf old coot" to be able to listen to news broadcasts etc and understand what was being said. The antenna used is about 60 feet of wire and a central heating system counterpoise. My receiver shares the two 4 inch diameter coils used in the NE4AM design, it also shares the jfet (2N3819) with gate bias as described by David in his article.

The June Rad-Com article does not seem to place enough emphasis on the importance of matching the ALD110900A sorce/drain impedance and load (headphones) to the tuned circuit. My opinion is that best results are obtained with a good selection of tappings on the coil as described by NE4AM. The ALD110900A (or jfet plus negative gate bias supply) circuit demonstrates its superior performance over the OA81, OA91 etc style detector circuits when detecting weaker signals. Signals which are simply inaudible to the OAxx style detectors are rendered audible by the ALD or jfet synchronous detector design. The ALD or jfet design definately offer better performane for "crystal set DX for 80 Mtrs" or other similar applications.

I note that in both the January QST and June Rad-Com articles they used a low impedance telephone earpiece via an autotransformer for matching. In the Rad-Com article they said that "an old pair of Hi-Z headphones" was substituted for the low-Z earphone/autotransformer with no noticable improvement. I can only conclude that the "old pair of Hi-Z headphones" must have been very poor quality or had weak magnets, in my tests substituting my pair of "old Hi-Z headphones" into the circuit made a very significant difference. I tested several low-Z telephone earpieces (all worked) but the Hi-Z phones (4000 Ohms) consistently outperformed the low-Z units. Its also worth pointing out that the difference was most notable on weaker signals. On strong (local) signals the difference was much less obvious. I currently do not have a crystal earphone to test with but I suspect a crystal earphone would also outperform most low-Z earphones/matching transformer configurations.

And finally:
I would strongly advse anyone who is thinking about experimenting with this form of synchronous detector to first read David Cripes (NE4AM) article as a starting point and also give serious consideration to using a 2N3819 jfet plus adjustable negative gate bias supply in preference to the ALD110900A device. The only significant advantage I can see with the ALD device is that its zero Volts gate threshold avoids the requirement for the seperate negative gate bias supply required by the jfet arangement and thus saves a few components.

The RSGB are currently offering the ALD110900A devices for 4 UK pounds each (including UK postage) but if you already have a 2N3819 (or similar N-ch' jfet) in the junk box then try that first with an adjustable negative gate supply and evaluate the circuit for yourself before spending your 4 pounds. One additional advantage of the jfet plus negative gate bias approach I have found is that by making the bias adjustable (front panel control) you can improve performance/sound quality on strong signals. The bias point for best sensitivity and lowest distortion (on stronger signals) are not the same so the ability to make bias adjustments "on-the-fly" is an advantage.

Conclusion:
If you are building a crystal set for the "local" station(s) then I see no real advantage in bothering with the syncronous detector

approach but if you want a crystal set with highest possible performance then the syncronous detector plus tapped coils (for matching) gives outstanding performance.

I wonder, has anyone else on this list experimented with the ALD devices and if so what are your experiences?

73,s to all on the list.

Des (M0AYF G-QRP 9788)

```
From -5467484494116103367
X-Google-Thread: fc2a5,d6daf85b243020bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!d38g2000prn.googlegroups.com!not-for-
mail
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: XTAL Radio Receiver Circuits
Date: Fri, 24 Apr 2009 10:02:40 -0700 (PDT)
Organization: http://groups.google.com
Lines: 47
Message-ID: <128b1050-0546-44f8-80ba-5c879f359257@d38g2000prn.googlegroups.com>
References: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
     <eaidnT16IoW_aHHUnZ2dnUVZ_v6dnZ2d@web-ster.com> <75703417-7862-44fb-
b43f-11e09f7e9e17@w35g2000prg.googlegroups.com>
     <gsm23e0qvc@news3.newsguy.com>
<a28cb646-5ebd-4d82-92e8-1595a364fab8@y10g2000prc.googlegroups.com>
     <VmPHl.69696$GU6.51002@newsfe09.iad> <d6c7702a-5b2d-4eeb-9e71-
f85635f2dcb1@x29g2000prf.googlegroups.com>
     <yY4Il.82101$TD1.68906@newsfe18.iad> <gsr0mu02502@news3.newsguy.com>
NNTP-Posting-Host: 72.0.177.83
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240592560 11173 127.0.0.1 (24 Apr 2009 17:02:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 24 Apr 2009 17:02:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d38g2000prn.googlegroups.com; posting-host=72.0.177.83;
     posting-account=LQVNZAkAAAAHQ9vQRrCB-Qc9fLbREhw4
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.9)
     Gecko/2009040821 Firefox/3.0.9,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2592
```

On Apr 23, 5:21=A0pm, Bill M <radioex...@geeemail.com> wrote:

> Unca Pete wrote:

```
> > "raypsi" <RBorow...@gmail.com> wrote in message
> >news:d6c7702a-5b2d-4eeb-9e71-f85635f2dcb1@x29g2000prf.googlegroups.com..=
.
> > On Apr 22, 9:18 pm, "Unca Pete" <radioconnect...@cox.net> wrote:
>
> >> For an education:
>
> >>http://www.bentongue.com/xtalset/xtalset.html
>
> > Hey OM:
>
> > That's a nice link. But nowhere could I find a diode double, tripler,
> > or quadrupler detector.
>
> > 73 OM
>
> > Probably because they don't deliver any benefits?
>
> Basically true but in fairness to the folks who have never tried it you
> MAY get some additional volume on a reasonably strong local station.
> You shoot your selectivity and ultimate sensitivity in the foot, though,
> because of the extra loading on the tank. ie, not a DX set.
>
> There's one circuit floating around that uses a dual center-tapped tank
> (so to speak) =A0with a diode on each side and their outputs are combined=
.
> =A0 =A0 One fellow said it worked pretty well as a workaround for the
> loading concern. =A0 Still not a DXers set but better than attempting a
> voltage doubling detector.
>
> -Bill

Bill.
I built one of those several years ago. Plans came from a CQ magazine
article some years before. I couldn't get it to work very well back
then. couldn't get both circuits to tune to the same frequency, even
though it was built symetrically. A week ago, I brought it into the
shack from the shop and tried it again, using my 160 meter lazy quad
antenna. Still couldn't figure any way to get both sides to tune and
track together.

Looks nice and someone may have gotten it to work, but for now, it's
going back to the top shelf in the shop.

Paul, KD7HB


From 6756855270838616560
X-Google-Thread: fc2a5,c28ceab18268e02e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news-
in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
```

nntp-06.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <Bb8Il.215669$UQ6.79164@en-nntp-03.dc1.easynews.com>
Subject: Re: Source for high-Q HF inductors
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <7tmIl.202047$Yx2.65263@en-nntp-06.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Fri, 24 Apr 2009 10:15:45 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2593

Thanks for the information, guys -- it's very useful. I'll plan on winding my own coils initially, I guess.

Hey, weren't we supposed to have room-temperature super-conducting wires by now!? <<Grumble>>

---Joel

From -1840832601843043237
X-Google-Thread: fc2a5,c28ceab18268e02e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe03.iad.POSTED!269d8c94!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Source for high-Q HF inductors
References: <Bb8Il.215669$UQ6.79164@en-nntp-03.dc1.easynews.com> <7tmIl.202047$Yx2.65263@en-nntp-06.dc1.easynews.com>
From: Lawrence Statton <yankeeinexile@gmail.com>
Message-ID: <m1fxfygc2h.fsf@mac.gateway.2wire.net>
User-Agent: Gnus/5.11 (Gnus v5.11) Emacs/22.3 (darwin)
Cancel-Lock: sha1:w2RjMfGVN7dIKSHREGcaa8pEw4Y=
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Lines: 9
X-Complaints-To: abuse@WWWSpace.NET
NNTP-Posting-Date: Fri, 24 Apr 2009 18:07:35 UTC
Date: Fri, 24 Apr 2009 13:07:34 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:2297

```
"Joel Koltner" <zapwireDASHgroups@yahoo.com> writes:
>
> Hey, weren't we supposed to have room-temperature super-conducting wires by
> now!?  <<Grumble>>
>

That and hover-cars.  Where's my hover-car?  You kids get off my lawn!

-n1gak


From 4774209330412567736
X-Google-Thread: fc2a5,c28ceab18268e02e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!p11g2000yqe.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Source for high-Q HF inductors
Date: Fri, 24 Apr 2009 11:34:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <c42c4e89-9b6f-4831-810d-a7703f1d23fb@p11g2000yqe.googlegroups.com>
References: <Bb8Il.215669$UQ6.79164@en-nntp-03.dc1.easynews.com>
     <7tmIl.202047$Yx2.65263@en-nntp-06.dc1.easynews.com>
<m1fxfygc2h.fsf@mac.gateway.2wire.net>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240598062 24209 127.0.0.1 (24 Apr 2009 18:34:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 24 Apr 2009 18:34:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p11g2000yqe.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB5;
     .NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2595

On Apr 24, 2:07=A0pm, Lawrence Statton <yankeeinex...@gmail.com> wrote:
> "Joel Koltner" <zapwireDASHgro...@yahoo.com> writes:
>
> > Hey, weren't we supposed to have room-temperature super-conducting wire=
s by
> > now!? =A0<<Grumble>>
>
> That and hover-cars. =A0Where's my hover-car? =A0You kids get off my lawn=
!

I want a pair of jet pants, so I can pull them on and fly off the
```

balcony like Astro Boy!

Tim.

```
From -4800280619742515674
X-Google-Thread: fc2a5,7562479b1dafd367,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
x3g2000yqa.googlegroups.com!not-for-mail
From: David <DavidBR549@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Crystal Diode Books
Date: Fri, 24 Apr 2009 13:07:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 5
Message-ID: <3ac4bd52-0ca1-40ee-a5da-9014fd8dcda1@x3g2000yqa.googlegroups.com>
NNTP-Posting-Host: 216.79.54.210
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1240603667 9877 127.0.0.1 (24 Apr 2009 20:07:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 24 Apr 2009 20:07:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x3g2000yqa.googlegroups.com; posting-host=216.79.54.210;
     posting-account=p0TJ8QoAAAC8u-pFGl8koNnuPbGXl0aa
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR
     3.0.04506.648),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2299
```

2 books everyone should have are, (Crystal Diode Circuit Kinks by Sylvania Electric Products) and (40 Uses for Germanium Diodes by Sylvania Electric Products) These have lots of simple circuits from ham radio to the experimenter or crystal radio and even test equipment.

```
From 5219950777114453785
X-Google-Thread: fc2a5,d6daf85b243020bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news4
From: Bill M <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: XTAL Radio Receiver Circuits
Date: Fri, 24 Apr 2009 18:35:00 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
```

```
Lines: 14
Message-ID: <gstlrl01jsk@news4.newsguy.com>
References: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
<6a26629a-3cea-4890-9fe9-a58d0b6592c0@t21g2000yqi.googlegroups.com>
NNTP-Posting-Host: p670890ebff000000c6e76203bb33481fea24bcb0ab3674a2.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
In-Reply-To: <6a26629a-3cea-4890-9fe9-a58d0b6592c0@t21g2000yqi.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2597

David wrote:
> On Apr 20, 1:34 pm, David <DavidBR...@gmail.com> wrote:
>> Looking for Crystal Radio Receiver Circuits, that have a voltage
>> quadrupler to increase headphone volume without batteries or AC power.
>
> On my original post i was, and still looking for a quadrupler circuit,
> not information on why it does not work.

Sorry.  Frankly I've never seen one but I guess you could lash something
together easy enough.  May try asking over at the Rap-n-Tap forum.  If
anybody knows of one that group would surely know.

Rgds,
Bill



From -7796232320880669490
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!fu-berlin.de!
uni-berlin.de!individual.net!not-for-mail
From: "Phil Allison" <philallison@tpg.com.au>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Sat, 25 Apr 2009 12:20:42 +1000
Lines: 74
Message-ID: <75fabnF16u8dhU1@mid.individual.net>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<53e718dd-5ce7-4795-b716-ac16d6f483b8@g19g2000vbi.googlegroups.com>
X-Trace: individual.net OZ5H27HMc1J+17tlh3Yn5g7Panjl/DC1n7h5y9hVjklCp2PLbu
Cancel-Lock: sha1:7WVXGSycNPndvEZOsJF4aIklhSs=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Xref: g2news1.google.com sci.electronics.design:78990
rec.radio.amateur.homebrew:2301
```

<aj-smith@blueyonder.co.uk
Tim Shoppa

> A terminology question I suppose about the derivation of the term
> "Superheterodyne" more than anything else:

I think that the way to answer a question like this is to try to find written material which originated as close as possible in time to the introduction of the term in question. Wikki entries should give references to original material, but of course those are not always easy for everyone to find, and to study.

** All one had to do was follow up on the "external links" at the end of the superhet Wiki

http://en.wikipedia.org/wiki/Superheterodyne_receiver

the very first one of which is:

http://antiqueradios.com/superhet/

Then go to footnote #11:

" Armstrong, "A New System of Short Wave Amplification," Proc. I.R.E. 9 (Feb. 1921), pp. 3-27. QST 3 (Feb. 1920), pp.5-9, 13.
This paper uses the term superaudible heterodyne, from which superheterodyne is derived. The British tended to use supersonic. Incidentally, the first use of the word superheterodyne that I have seen, is in QST for March 1921 (p.41) but evidently from the context it was in common use by then. "

Note the reference to " superaudible heterodyne " is from 1921 and Armstrong himself !!

Also it explains how the Poms (Armstrong was an American) liked to use "supersonic" in relation to those frequencies above the audible range.

The best that I can do in the way of original references with the books on my shelves is to quote from the 'Admiralty Handbook of Wireless Telegraphy 1931', HMSO, London, 1932. On page 721 is written - '... This use of amplification at a frequency intermediate between that of the incoming signal and an audible frequency gives this circuit its name of super-heterodyne, or supersonic heterodyne receiver'.

** Fine, but that book is ten years later and has no direct connection to Armstrong's invention.

The discussion goes on to describe an Admiralty receiver having an IF frequency of 30kHz, which is just what you would expect a supersonic frequency to be. To my mind this settles the question.

** The Q was settled by the first couple of replies Shoppa got here - but he simply had no interest in having one of his mad, pet theories proved wrong so easily.

Shoppa was trolling as usual and no simple facts were not gonna spoil his puerile mischief.

..... Phil

```
From 1263195502383276339
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newshub.sdsu.edu!news.alt.net!
blackhelicopter.databasix.com!not-for-mail
From: Bob Larter <bobbylarter@gmail.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Sat, 25 Apr 2009 18:54:32 +1000
Organization: DataBasix - Continuing to kick USENet ass.
Lines: 12
Message-ID: <gsuj20$1p0$1@blackhelicopter.databasix.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com> <64d06f97-d4a2-4917-a0cc-
d79f91d3a428@m19g2000yqk.googlegroups.com>
<q2kpu4dsupiopinf8qjuoi9o2thqgvr0mr@4ax.com> <9f7d92d4-041d-4f08-
bfdd-01951381986c@k2g2000yql.googlegroups.com> <661f780c-
eef9-4d70-92e1-628f97277533@k19g2000prh.googlegroups.com>
<7552fvF15d317U1@mid.individual.net> <s6u0c6-b4n1.ln1@mikea.ath.cx>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: blackhelicopter.databasix.com 1240649600 1824
blackhelicopter.databasix.com (25 Apr 2009 08:53:20 GMT)
X-Complaints-To: abuse@databasix.com
NNTP-Posting-Date: Sat, 25 Apr 2009 08:53:20 +0000 (UTC)
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.21) Gecko/
20090302 Thunderbird/2.0.0.21 Mnenhy/0.7.6.666
```

```
In-Reply-To: <s6u0c6-b4n1.ln1@mikea.ath.cx>
Xref: g2news2.google.com sci.electronics.design:93757
rec.radio.amateur.homebrew:2599

mikea wrote:
[Philthy snipped]

> Killfile, Phil. Phil, killfile.

Hi Mike, nice to see you here!

--
    W
  . | ,. w ,   "Some people are alive only because
   \|/  \|/     it is illegal to kill them."    Perna condita delenda est
---^----^---------------------------------------------------------------



From 8259500733955505881
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 25 Apr 2009 08:58:03 -0500
Date: Sat, 25 Apr 2009 13:58:28 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
     <cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com> <64d06f97-d4a2-4917-a0cc-
d79f91d3a428@m19g2000yqk.googlegroups.com> <49F0F505.50ABB8B7@hotmail.com>
<75cesbF170aesU1@mid.individual.net>
In-Reply-To: <75cesbF170aesU1@mid.individual.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <VYedncMIoKp2i27UnZ2dnUVZ8t-dnZ2d@pipex.net>
Lines: 21
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.72.230
X-Trace: sv3-
C9dJbYGyo2Ne6g64KuV47MhWpMp3UIe63W9cMzlNiiq3gD3jTayUY4wWXnczTlJtQo27EYPfVRyLJ/f!
INAU547sZl0Imxoy6Hr4YqcXOLNUnHXXAQ3ckLjyynHjPeMhuJBYlcqXZbCBEcK+o8QXyJFz0YE1!
JAFtJuqJ554prV8Ok8vpuNphUA==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

```
X-Postfilter: 1.3.39
X-Original-Bytes: 2035
Xref: g2news1.google.com sci.electronics.design:79089
rec.radio.amateur.homebrew:2303

Phil Allison wrote:
> "Eeysore the Fucking LIAR "
>
>> Supersonic today means travelling faster than the speed of sound.
>
>
> **  Not when the context is frequency -  you fucking MORON.
>
> http://en.wiktionary.org/wiki/supersonic
>
>
>
> .......    Phil
>
>
=============================================
Phil ,It will be a relief to all (civilised) users of this NG ,if you
would discharge your life's frustrations onto another more appropriate
NG.   It is clear ,to me at least ,that you need help.

Frank    GM0CSZ / KN6WH


From 5884857789325175892
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
news2.arglkargh.de!news.musoftware.de!wum.musoftware.de!fu-berlin.de!uni-
berlin.de!individual.net!not-for-mail
From: "Phil Allison" <philallison@tpg.com.au>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Sun, 26 Apr 2009 00:14:08 +1000
Lines: 55
Message-ID: <75gk5cF18ii7eU1@mid.individual.net>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
     <cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com> <64d06f97-d4a2-4917-a0cc-
d79f91d3a428@m19g2000yqk.googlegroups.com> <49F0F505.50ABB8B7@hotmail.com>
<75cesbF170aesU1@mid.individual.net> <VYedncMIoKp2i27UnZ2dnUVZ8t-dnZ2d@pipex.net>
X-Trace: individual.net DxhPBCYPXpqcpRHQOHN8yQQyLhEl6Ac6saMB5i7rLXg+big9B0
Cancel-Lock: sha1:+U9IU5FYhflOM4G4qhHpz6XcKZI=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Response
```

Xref: g2news1.google.com sci.electronics.design:79091
rec.radio.amateur.homebrew:2304

"Highland Ham"

** Whoopeee   !!!!

Another totally anencephalic, radio ham wack-job opens his dumb gob.

>> "Eeysore the Fucking LIAR "
>>
>>> Supersonic today means travelling faster than the speed of sound.
>>
>>
>> ** Not when the context is frequency - you fucking MORON.
>>
>> http://en.wiktionary.org/wiki/supersonic
>>

>
> ==
> Phil ,

** Never address me personally via any NG

-   you pig ignorant   CUNT.

> It will be a relief to all (civilised) users of this NG

** Leaves all self appointed, net cop cunts like you out

-   don't it   ???

> Frank   GM0CSZ / KN6WH

** Fuck the hell off   -   Frank.

IMO, radio hams are the scum of the earth.

Go stick your stupid, smug opinions straight up your FAT ARSE.

...... Phil

```
From 1321131666900567739
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 25 Apr 2009 12:16:47 -0500
Date: Sat, 25 Apr 2009 13:16:42 -0400
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Organization: http://home.earthlink.net/~mike.terrell/index.html
X-Mailer: Mozilla 4.8 [en] (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
     <cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com> <64d06f97-d4a2-4917-a0cc-
d79f91d3a428@m19g2000yqk.googlegroups.com> <49F0F505.50ABB8B7@hotmail.com>
<75cesbF170aesU1@mid.individual.net> <VYedncMIoKp2i27UnZ2dnUVZ8t-dnZ2d@pipex.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-NewsProxy: 1.2.5
Message-ID: <PLKdnZVRV-ni2G7UnZ2dnUVZ_vudnZ2d@earthlink.com>
Lines: 29
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.110.34.161
X-Trace: sv3-
frhY6PtQ8p6YJWTXa8fb9NDYbvarL2TRSM7s1hwSHooysFjGuYtD5T3wbh6FBj2dTunCsL/V1xJhFIR!
3hxGJBz49NJPnSS1K6dtpDyDDsYfrMMvarMSQEk6aIIevveIghBHiUIUfZI6Y4g0FHIdZvThY8Vy!
NqZLFNNYlIu5JKugEDBaYalW/RQjIjxe3+2fI5U=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2212
Xref: g2news1.google.com sci.electronics.design:79117
rec.radio.amateur.homebrew:2305
```

Highland Ham wrote:
>
> Phil Allison wrote:
> > "Eeysore the Fucking LIAR "
> >

> >> Supersonic today means travelling faster than the speed of sound.
> >
> >
> > ** Not when the context is frequency - you fucking MORON.
> >
> > http://en.wiktionary.org/wiki/supersonic
> >
> >
> >
> > ....   Phil
> >
> >
> ==
> Phil ,It will be a relief to all (civilised) users of this NG ,if you
> would discharge your life's frustrations onto another more appropriate
> NG.   It is clear ,to me at least ,that you need help.

Killfile him, for your own sanity.

--
You can't have a sense of humor, if you have no sense!

From -8459738299497046891
X-Google-Thread: fc2a5,156f06aab74a6426,start
X-Google-Thread: fc8b1,156f06aab74a6426,start
X-Google-Attributes: gidfc2a5,gidfc8b1,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
usenet01.sei.cmu.edu!elk.ncren.net!newsswitch.lcs.mit.edu!bloom-beacon.mit.edu!
panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Join the Most Exclusive Club on 20M!
Date: 25 Apr 2009 18:13:22 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 37
Message-ID: <gt01u2$grg$1@panix2.panix.com>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1240697602 21961 166.84.1.2 (25 Apr 2009 22:13:22 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 25 Apr 2009 22:13:22 +0000 (UTC)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2306
rec.radio.amateur.boatanchors:2448

Perhaps you've heard of the Colorburst Club, that elite band of 80M
hams that hang out around the colorburst frequency using homebrew rigs
and crystals scrapped from old TV sets.

Now is your chance to become a part of a group so much more restricted that perhaps you've never heard of it before. You see, 14.31818 is a standard microprocessor clock frequency, and consequently there are surplus crystals available for it, right in the middle of the soon to be active twenty-meter amateur band. And you can join the specialized and esoteric bunch who hang out there.

All you need to do is send me $1 for your pair of 14.31818 MHz crystals, and you can do with them what you like. You can use them in your own homebrew QRP rig, or in an exciter driving a commercial transmitter to the legal limit. There's no end to the fun you can have when you have the power and the glory of being able to hang out with the best of the best on 14.31818. These crystals are made of genuine quartz, carefully A-T cut by anonymous and unknown craftsmen in a distant land, and then lapped to frequency with actual abrasives. You can use them to talk anywhere in the world.

Once you're on 14.31818 you'll be one of a tight group of people so secret that nobody knows who they are. Other clubs issue certificates of membership, but the 14.31818 club is SO SECRET that we won't give it away that you're a member by issuing a certificate. Only you will know for sure that you have the honor of being a member.

Is this whole thing actually a ploy for me to unload a lot of surplus microprocessor crystals? Of course. My wife is threatening to throw them out if I don't get them out of the living room. But that in no way diminishes the importance of this club. So don't delay, send your money now.
--scott

--
"C'est un Nagra. C'est suisse, et tres, tres precis."

From 3344762463593911694
X-Google-Thread: fc2a5,b8985eb83f3a944a,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q33g2000pra.googlegroups.com!not-for-mail
From: David <DavidBR549@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Experimenting with Coils for Crystal Sets
Date: Sat, 25 Apr 2009 17:23:06 -0700 (PDT)
Organization: http://groups.google.com
Lines: 7
Message-ID: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
NNTP-Posting-Host: 216.79.54.210
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1240705387 18137 127.0.0.1 (26 Apr 2009 00:23:07 GMT)
X-Complaints-To: groups-abuse@google.com

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NNTP-Posting-Date: Sun, 26 Apr 2009 00:23:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q33g2000pra.googlegroups.com; posting-host=216.79.54.210;
     posting-account=p0TJ8QoAAAC8u-pFGl8koNnuPbGXl0aa
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR
     3.0.04506.648),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2307
```

Was just wandering if anyone has used or experimented with television
IF, Video and Detector coils, most are slug tuned coils that have a
few uh to several hundred uh, some are sheilded some are not, i have
about 500 that i bought years ago, a lot of them look very close too
the old loopstick type coils, looking for
ideas.
Thanks David

```
From 4403843311660303703
X-Google-Thread: fc2a5,b8985eb83f3a944a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news6
From: Bill M <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimenting with Coils for Crystal Sets
Date: Sat, 25 Apr 2009 18:40:56 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 20
Message-ID: <gt0aj401jbe@news6.newsguy.com>
References: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
NNTP-Posting-Host: p8074872289f717769ba1ff05670fad9e0cf9e1e6dd3c8f44.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
In-Reply-To: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:2308
```

David wrote:
> Was just wandering if anyone has used or experimented with television
> IF, Video and Detector coils, most are slug tuned coils that have a
> few uh to several hundred uh, some are sheilded some are not, i have
> about 500 that i bought years ago, a lot of them look very close too
> the old loopstick type coils, looking for
> ideas.
> Thanks David

I got beat up on my last reply offering comments....but, whatever.

The small slug tuned HF coils in cans really have no place in crystal radio circuits. However, the long ferrite rod loopstick coils are quite good and are popular.

I'll offer an invitation to   http://theradioboard.com/rb/ if you aren't familiar with the site. You should be able to scrounge up some additonal suggestions there.

-Bill

From 1303885032341986745
X-Google-Thread: fc2a5,bc5b055e2b69127a,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!v23g2000pro.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Heath CM-1
Date: Sat, 25 Apr 2009 20:20:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 9
Message-ID: <99cd2260-079d-4b16-ba3a-4c8c74d7b7c9@v23g2000pro.googlegroups.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1240716027 20437 127.0.0.1 (26 Apr 2009 03:20:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 26 Apr 2009 03:20:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v23g2000pro.googlegroups.com; posting-host=75.190.189.120;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2309

Many years ago I converted a CM-1 capacitance meter to solid state using a 555 osc in place of the tube circuit. I no longer have the meter or the schematic I developed. I was wondering if anyone else had done this hoping I would not have to reinvent the wheel again. Knowing the osc frequecies for the various ranges whould be a huge help at giving me a starting point. Otherwise I will probably have to borrow a function generator.

Jimmie

From -251945389596330401
X-Google-Thread: fc2a5,b8985eb83f3a944a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
gnilink.net!nx01.iad01.newshosting.com!newshosting.com!novia!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 25 Apr 2009 22:51:46 -0500
Date: Sat, 25 Apr 2009 20:51:46 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.21 (X11/20090318)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimenting with Coils for Crystal Sets
References: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
In-Reply-To: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <jv2dnX42nKLOR27UnZ2dnUVZ_sydnZ2d@web-ster.com>
Lines: 26
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-qQp3VgJufD9siQZUhaK/
90pvb9ArSqCEQKJk1PuJFpSOyTatSEzeUKRwvhjxM0Wm+2UUK7SAQQg8lOt!
+1q6TFhXwZ4hodJUI7w5R0OCPS8yJW+/gJqrHOA0PT5T/HmHxNHsbAkhKEP7cpi4CVdOazn/smZj!
qzRlMMgL4hnlmOY=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:2310

David wrote:
> Was just wandering if anyone has used or experimented with television
> IF, Video and Detector coils, most are slug tuned coils that have a
> few uh to several hundred uh, some are sheilded some are not, i have
> about 500 that i bought years ago, a lot of them look very close too
> the old loopstick type coils, looking for
> ideas.
> Thanks David

They'll have very low Q, and therefore not really be suitable for a crystal radio, where low-Q coils fight your ability to get good selectivity without burning up all your signal before it gets to the headphones.

There's a whole bunch of _other_ cool things you can do with them, just not Xtal sets.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

```
Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" was written for you.
See details at http://www.wescottdesign.com/actfes/actfes.html


From 6541425415633576503
X-Google-Thread: fc2a5,c28ceab18268e02e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
feeder.news-service.com!news.astraweb.com!border3.a.newsrouter.astraweb.com!not-
for-mail
Message-ID: <BVH0tKAKiB9JFwn8@pentode.demon.co.uk>
Date: Sun, 26 Apr 2009 09:17:14 +0100
From: JC Morrice <John@pentode.demon.co.uk>
Reply-To: JC Morrice <john@pentode.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Source for high-Q HF inductors
References: <Bb8Il.215669$UQ6.79164@en-nntp-03.dc1.easynews.com>
 <7tmIl.202047$Yx2.65263@en-nntp-06.dc1.easynews.com>
 <m1fxfygc2h.fsf@mac.gateway.2wire.net>
 <c42c4e89-9b6f-4831-810d-a7703f1d23fb@p11g2000yqe.googlegroups.com>
Organization: None
MIME-Version: 1.0
Content-Type: text/plain;charset=iso-8859-1
Content-Transfer-Encoding: 8bit
X-Newsreader: Turnpike Integrated Version 5.02 U <lAkWrOQJtsOZdevf7Px+d7Uu2y>
Lines: 25
NNTP-Posting-Host: a13760cd.news.astraweb.com
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^IoYKS_EkS2be;6_mlN
Xref: g2news1.google.com rec.radio.amateur.homebrew:2311

In article <c42c4e89-9b6f-4831-810d-a7703f1d23fb@p11g2000yqe.googlegroup
s.com>, Tim Shoppa <shoppa@trailing-edge.com> writes

>On Apr 24, 2:07�pm, Lawrence Statton <yankeeinex...@gmail.com> wrote:
>> "Joel Koltner" <zapwireDASHgro...@yahoo.com> writes:
>>
>> > Hey, weren't we supposed to have room-temperature super-conducting wires by
>> > now!? �<<Grumble>>
>>
>> That and hover-cars. �Where's my hover-car? �You kids get off my lawn!
>
>I want a pair of jet pants, so I can pull them on and fly off the
>balcony like Astro Boy!

Yeah - and all the other stuff that in the past they said we would have
by now.  I want my stuff.........  :D

        http://www.davidszondy.com/future/futurepast.htm
```

```
John
G0QAJ
--
JC Morrice
john@pentode.demon.co.uk


From 5191587587878147492
X-Google-Thread: fc2a5,b8985eb83f3a944a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!v23g2000pro.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimenting with Coils for Crystal Sets
Date: Sun, 26 Apr 2009 03:54:56 -0700 (PDT)
Organization: http://groups.google.com
Lines: 38
Message-ID: <089cfa56-a232-47b6-adfa-9531d29f32ba@v23g2000pro.googlegroups.com>
References: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
     <jv2dnX42nKLOR27UnZ2dnUVZ_sydnZ2d@web-ster.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240743296 11531 127.0.0.1 (26 Apr 2009 10:54:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 26 Apr 2009 10:54:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v23g2000pro.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2312

On Apr 25, 11:51=A0pm, Tim Wescott <t...@seemywebsite.com> wrote:
> David wrote:
> > Was just wandering if anyone has used or experimented with television
> > IF, Video and Detector coils, most are slug tuned coils that have a
> > few uh to several hundred uh, some are sheilded some are not, i have
> > about 500 that i bought years ago, a lot of them look very close too
> > the old loopstick type coils, looking for
> > ideas.
> > Thanks David
>
> They'll have very low Q, and therefore not really be suitable for a
> crystal radio, where low-Q coils fight your ability to get good
> selectivity without burning up all your signal before it gets to the
> headphones.
>
> There's a whole bunch of _other_ cool things you can do with them, just
```

> not Xtal sets.
>
> --
>
> Tim Wescott
> Wescott Design Serviceshttp://www.wescottdesign.com
>
> Do you need to implement control loops in software?
> "Applied Control Theory for Embedded Systems" was written for you.
> See details athttp://www.wescottdesign.com/actfes/actfes.html

I tinkered around a lot with crystal radios back when I was a kid. It seemed that the most important thing was matching the impedance of the radio to the antenna. This is much more critical on crystal set than a modern superhet The only ham in the county impressed me very much with what a crystal set could do if properly matched to a good antenna system. He had worked all the states and a lot of the countries using a crystal radio as his rx. I do think he kind of cheated though by finding the signal on his regular station rx and then listening for it on the crystal set.

Jimmie

From -8076989997315335176
X-Google-Thread: fc2a5,b8985eb83f3a944a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!weretis.net!feeder2.news.weretis.net!news-peer.in.tum.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimenting with Coils for Crystal Sets
Date: Sun, 26 Apr 2009 18:23:14 +0000
Organization: Bias Comms
Lines: 18
Message-ID: <75jn31F18cr5cU1@mid.individual.net>
References: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net gZ5paG6GFI+IokYEPTWhzw1wSrchlMv1FUnjAyfwVqP2xz/x35
Cancel-Lock: sha1:UJ9ypplf95T35mdHq3gdk3BZAF8=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:2313

David wrote:

> Was just wandering if anyone has used or experimented with television
> IF, Video and Detector coils, most are slug tuned coils that have a

```
> few uh to several hundred uh, some are sheilded some are not, i have
> about 500 that i bought years ago, a lot of them look very close too
> the old loopstick type coils, looking for
> ideas.

Unfortunately, the *Q* of those coils will be much too low for effective use
in crystal receivers.  The best results I've had with "no power" receivers
involved the use of FET detectors and /very/ High-Q coils.  The inductors
usually have to be large diameter air-cored, but you can get away with toroid
or ferrite rod types if you can accept poorer results.  It's quite
illuminating to browse the offerings on the web.

Bob




From 1797665778011519071
X-Google-Thread: 241b302a50,b8985eb83f3a944a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe09.iad.POSTED!7564ea0f!not-for-mail
From: Bill Janssen <billj@ieee.org>
Reply-To: billjNOT_THIS@ieee.org
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimenting with Coils for Crystal Sets
References: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
<75jn31F18cr5cU1@mid.individual.net>
In-Reply-To: <75jn31F18cr5cU1@mid.individual.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 27
Message-ID: <2F9Jl.91349$GU6.3575@newsfe09.iad>
X-Complaints-To: abuse-news@frontiernet.net
NNTP-Posting-Date: Mon, 27 Apr 2009 03:30:06 UTC
Organization: Frontier
Date: Sun, 26 Apr 2009 20:31:24 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2611

Bob wrote:
> David wrote:
>
>
>> Was just wandering if anyone has used or experimented with television
>> IF, Video and Detector coils, most are slug tuned coils that have a
>> few uh to several hundred uh, some are sheilded some are not, i have
>> about 500 that i bought years ago, a lot of them look very close too
>> the old loopstick type coils, looking for
>> ideas.
```

>>
>
> Unfortunately, the *Q* of those coils will be much too low for effective use
> in crystal receivers. The best results I've had with "no power" receivers
> involved the use of FET detectors and /very/ High-Q coils. The inductors
> usually have to be large diameter air-cored, but you can get away with toroid
> or ferrite rod types if you can accept poorer results. It's quite
> illuminating to browse the offerings on the web.
>
> Bob

How about making an Air Core Toroid. That can be made using a wax core.
Then after winding it,
some QDope or something in strips to hold the windings and then melting
the wax. Or maybe a foam
plastic core.

Bill K7NOM

From 1312569142355876O7
X-Google-Thread: 241b302a50,c81da0a04b8aae02
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi068.nbdc.sbc.com.POSTED!78bb86ef!not-for-mail
From: "JosephKK"<quiettechblue@yahoo.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Reply-To: "JosephKK"<quiettechblue@yahoo.com>
Message-ID: <uafav4psjf2j0msjdf3k69gn14l3jqjlo0@4ax.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com> <64d06f97-d4a2-4917-a0cc-
d79f91d3a428@m19g2000yqk.googlegroups.com>
<q2kpu4dsupiopinf8qjuoi9o2thqgvr0mr@4ax.com> <9f7d92d4-041d-4f08-
bfdd-01951381986c@k2g2000yql.googlegroups.com> <661f780c-
eef9-4d70-92e1-628f97277533@k19g2000prh.googlegroups.com>
<7552fvF15d317U1@mid.individual.net> <a716def6-9cd2-48a8-b202-
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X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
Lines: 51
NNTP-Posting-Host: 69.239.106.210
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi068.nbdc.sbc.com 1240809081 ST000 69.239.106.210 (Mon, 27 Apr 2009
01:11:21 EDT)
NNTP-Posting-Date: Mon, 27 Apr 2009 01:11:21 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
Q[OGRYKGPBRCRI@YORO@^TDBAJT@QDDMEPWXODMMHXMTWA]EPMS[AACY@TZZXQ[KS^ESKCJLOF_J_NGAWN

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@EGA_[FXAQ@E^TGNMUXGYNS[QQVL
Date: Sun, 26 Apr 2009 22:11:20 -0700
Xref: g2news2.google.com sci.electronics.design:94142
rec.radio.amateur.homebrew:2612

On Tue, 21 Apr 2009 05:34:25 -0700 (PDT), Tim Shoppa
<shoppa@trailing-edge.com> wrote:

>On Apr 21, 1:05=A0am, "Phil Allison" <philalli...@tpg.com.au> wrote:
>> "AF6AY"
>>
>> > Everyone ought to realize that "Wikipedia" data can be written by
>> > ANYONE
>>
>> ** As are NG posts.
>>
>> The difference being that Wikis are full of checkable references and =
are
>> subject to on-going correction.
>
>The best Wikipedia articles are often filled with good checkable
>references, but other times it sounds like they were written in a
>foreign language and translated into English and have few (if any)
>good references.
>
>Just because a Wikipedia entry isn't well-written or sounds awkward
>doesn't mean it's wrong, but I will often reject what I don't like in
>the poorly written ones.
>
>Somewhere there's a bunch of people who spend their time correcting
>and improving Wikipedia entries, and I think overall they are doing a
>good job, but that doesn't mean the result is always devoted to my
>interests. Just like anything else in this world, it's got workers and
>it's got managers and they aren't always devoting their attention to
>the little corners of arcania that I live in.
>
>It's not that the Encyclopedia Britannica is perfect either. I can
>open it up to the very few subjects that I happen to be expert on and
>find over-simplifications and a lack of cites to what I consider to be
>the best references. That doesn't mean it's out-and-out wrong, just
>that it's an Encyclopedia, and by definition they can't do anything
>but touch on the surface of all the interesting stuff in the world.
>
>Of course in academia I got real used to opening a journal and instead
>of reading the articles, to go straight to the references and see if
>they are quoting one of my articles :-). Breadth vs specialization,
>can't pick them both.
>
>Tim.

Just the same, i try.  perhaps my approach can be better described as
having adequate coverage at adequate depth.  Or sort of turning thinge
```

sideways and trying to get best area with a very complex shape with
many largish estensions in some areas and virtually none in other
places. Knowledge is kind of fractal any way.

  .

```
From 1342417541711274106
X-Google-Thread: 241b302a50,c81da0a04b8aae02
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi068.nbdc.sbc.com.POSTED!78bb86ef!not-for-mail
From: "JosephKK"<quiettechblue@yahoo.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Reply-To: "JosephKK"<quiettechblue@yahoo.com>
Message-ID: <pvfav4dvg8ovh7no66mvnmjb8pugq4njso@4ax.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com>
<ZcudnVO8laZ3FW3UnZ2dnUVZ_o2dnZ2d@supernews.com>
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Content-Transfer-Encoding: quoted-printable
Lines: 44
NNTP-Posting-Host: 69.239.106.210
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi068.nbdc.sbc.com 1240809581 ST000 69.239.106.210 (Mon, 27 Apr 2009
01:19:41 EDT)
NNTP-Posting-Date: Mon, 27 Apr 2009 01:19:41 EDT
Organization: at&t http://my.att.net/
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Date: Sun, 26 Apr 2009 22:19:41 -0700
Xref: g2news2.google.com sci.electronics.design:94144
rec.radio.amateur.homebrew:2613
```

On Thu, 23 Apr 2009 11:27:37 -0400, Phil Hobbs
<pcdhSpamMeSenseless@electrooptical.net> wrote:

>John Larkin wrote:
>> On Mon, 20 Apr 2009 09:50:05 -0700 (PDT), Tim Shoppa
>> <shoppa@trailing-edge.com> wrote:
>>=20
>>> A terminology question I suppose about the derivation of the term
>>> "Superheterodyne" more than anything else:
>>>
>>> Does the "Super" actually mean anything? Is there a Subheterodyne?
>>>

```
>>> Traditionally superhets mix a higher radio frequency down to a lower
>>> IF frequency, but certainly in the past few decades radios with IF's
>>> above the RF frequency have become very common in broadband
>>> applications, and those are still called superhets, not subhets :-).
>>>
>>> Google turns up a couple hits on subheterodyne but other than one =
that
>>> might mean "IF higher in frequency than RF" I don't recognize what
>>> they mean..
>>>
>>> I suspect that "Super" was more a marketing term than anything
>>> else :-).
>>>
>>> Tim N3QE
>>=20
>> Supersonic.
>>=20
>> http://en.wikipedia.org/wiki/Superheterodyne_receiver
>>=20
>>=20
>> John
>>=20
>
>Not a bad article, except that he seems to think that cascading multiple=
=20
>stages at a single IF improves image rejection, and that very high IFs=20
>are much less common than double conversion.  (Does *anyone* use double=20
>conversion anymore?  Spur city.)

Double conversion may be thought to be passe an awful lot of sattelite
TV receivers are double conversion or triple conversion.  Think LNB.
  .


From -2194391664961597655
X-Google-Thread: 241b302a50,c81da0a04b8aae02
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi068.nbdc.sbc.com.POSTED!78bb86ef!not-for-mail
From: "JosephKK"<quiettechblue@yahoo.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Reply-To: "JosephKK"<quiettechblue@yahoo.com>
Message-ID: <jdgav4h6acuaje2c4un5e624941bu80tlp@4ax.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
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MIME-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
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01:26:35 EDT)
NNTP-Posting-Date: Mon, 27 Apr 2009 01:26:35 EDT
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Date: Sun, 26 Apr 2009 22:26:34 -0700
Xref: g2news2.google.com sci.electronics.design:94145
rec.radio.amateur.homebrew:2614

On Tue, 21 Apr 2009 17:38:47 -0700, Joerg
<notthisjoergsch@removethispacbell.net> wrote:

>TheM wrote:
>> "Robert Baer" <robertbaer@localnet.com> wrote in message =
news:taqdnWXbhNru4HDUnZ2dnUVZ_vOdnZ2d@posted.localnet...
>>> Joerg wrote:
>>>
>>>> John Larkin wrote:
>>>>
>>>>> On Mon, 20 Apr 2009 12:36:12 -0700, Joerg
>>>>> <notthisjoergsch@removethispacbell.net> wrote:
>>>>>
>>>>>> Tim Shoppa wrote:
>>>>>>
>>>>>>> A terminology question I suppose about the derivation of the term
>>>>>>> "Superheterodyne" more than anything else:
>>>>>>>
>>>>>>> Does the "Super" actually mean anything? Is there a =
Subheterodyne?
>>>>>>>
>>>>>>> Traditionally superhets mix a higher radio frequency down to a =
lower
>>>>>>> IF frequency, but certainly in the past few decades radios with =
IF's
>>>>>>> above the RF frequency have become very common in broadband
>>>>>>> applications, and those are still called superhets, not subhets =
:-).
>>>>>>>
>>>>>>> Google turns up a couple hits on subheterodyne but other than one=
 that
>>>>>>> might mean "IF higher in frequency than RF" I don't recognize =
what
>>>>>>> they mean..
>>>>>>>
>>>>>>> I suspect that "Super" was more a marketing term than anything
>>>>>>> else :-).
>>>>>>>
>>>>>> If you want to file a new patent for old stuff you could try =
subheterodyne and it just might sail through :-)
>>>>>>
>>>>>> Oh wait, call it hyperheterodyne, has more glitz. Just like the =
supermercados in Spain.
>>>>>
>>>> I meant hypermercados :-)
>>>>
>>>>
>>>>> I think we're going to be doing a superhet receiver soon. Maybe =
we'll
>>>>> do it in an FPGA!
>>>>>
>>>> How'd you do the preamp in there?
>>>>
>>>   Bit shift?
>>=20
>> Yes, but 2x zero is still zero... :)
>>=20
>> M=20
>
>... +/-3dB.

That's it.  You are now on the list of posters that are not safe to
read with a mouthful.
  .



From 4134375760755610025
X-Google-Thread: 241b302a50,b8985eb83f3a944a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!d25g2000prn.googlegroups.com!not-for-
mail
From: David <DavidBR549@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimenting with Coils for Crystal Sets
Date: Mon, 27 Apr 2009 05:32:07 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <277330a1-b3f5-4246-a82d-6b7fabfca602@d25g2000prn.googlegroups.com>
References: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
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NNTP-Posting-Host: 216.79.54.210
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NNTP-Posting-Date: Mon, 27 Apr 2009 12:32:07 +0000 (UTC)
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     1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR
     3.0.04506.648),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2615

On Apr 25, 10:51=A0pm, Tim Wescott <t...@seemywebsite.com> wrote:
> David wrote:
> > Was just wandering if anyone has used or experimented with television
> > IF, Video and Detector coils, most are slug tuned coils that have a
> > few uh to several hundred uh, some are sheilded some are not, i have
> > about 500 that i bought years ago, a lot of them look very close too
> > the old loopstick type coils, looking for
> > ideas.
> > Thanks David
>
> They'll have very low Q, and therefore not really be suitable for a
> crystal radio, where low-Q coils fight your ability to get good
> selectivity without burning up all your signal before it gets to the
> headphones.
>
> There's a whole bunch of _other_ cool things you can do with them, just
> not Xtal sets.
>
> --
>
> Tim Wescott
> Wescott Design Serviceshttp://www.wescottdesign.com
>
> Do you need to implement control loops in software?
> "Applied Control Theory for Embedded Systems" was written for you.
> See details athttp://www.wescottdesign.com/actfes/actfes.html

What would be a good Q range for AM broadcast & Shortwave bands.
Another thing is that a lot of these coils have only one coil on a
form like an adjustable loopstick, maybe i'll never know unless i try
them. Holding them next to each other they look alike.


From 6522042226887439761
X-Google-Thread: 241b302a50,b8985eb83f3a944a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!v1g2000prd.googlegroups.com!not-for-
mail
From: David <DavidBR549@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
```

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Subject: Re: Experimenting with Coils for Crystal Sets
Date: Mon, 27 Apr 2009 05:40:27 -0700 (PDT)
Organization: http://groups.google.com
Lines: 36
Message-ID: <ae7ad27b-ab79-4ac1-9678-236093cf22b4@v1g2000prd.googlegroups.com>
References: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
     <75jn31F18cr5cU1@mid.individual.net> <2F9Jl.91349$GU6.3575@newsfe09.iad>
NNTP-Posting-Host: 216.79.54.210
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240836027 23280 127.0.0.1 (27 Apr 2009 12:40:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 27 Apr 2009 12:40:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v1g2000prd.googlegroups.com; posting-host=216.79.54.210;
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR
     3.0.04506.648),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2616

On Apr 26, 10:31=A0pm, Bill Janssen <bi...@ieee.org> wrote:
> Bob wrote:
> > David wrote:
>
> >> Was just wandering if anyone has used or experimented with television
> >> IF, Video and Detector coils, most are slug tuned coils that have a
> >> few uh to several hundred uh, some are sheilded some are not, i have
> >> about 500 that i bought years ago, a lot of them look very close too
> >> the old loopstick type coils, looking for
> >> ideas.
>
> > Unfortunately, the *Q* of those coils will be much too low for effectiv=
e use
> > in crystal receivers. =A0The best results I've had with "no power" rece=
ivers
> > involved the use of FET detectors and /very/ High-Q coils. =A0The induc=
tors
> > usually have to be large diameter air-cored, but you can get away with =
toroid
> > or ferrite rod types if you can accept poorer results. =A0It's quite
> > illuminating to browse the offerings on the web.
>
> > Bob
>
> How about making an Air Core Toroid. That can be made using a wax core.
> Then after winding it,
> some QDope or something in strips to hold the windings and then melting
> the wax. Or maybe a foam
> plastic core.
>
```

> Bill K7NOM- Hide quoted text -
>
> - Show quoted text -

Have used glue from a hot glue gun before, the coils will never move
once the glue sets.

From -2618798091219937957
X-Google-Thread: 241b302a50,b8985eb83f3a944a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
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news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news7
From: Bill M <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimenting with Coils for Crystal Sets
Date: Mon, 27 Apr 2009 07:22:35 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 19
Message-ID: <gt4bjj028rh@news7.newsguy.com>
References: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
<75jn31F18cr5cU1@mid.individual.net> <2F9Jl.91349$GU6.3575@newsfe09.iad>
NNTP-Posting-Host: p29f0943b9847926c9d3a7e37d5bca9f7a9b6f0b64a4f5720.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
In-Reply-To: <2F9Jl.91349$GU6.3575@newsfe09.iad>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2617

Bill Janssen wrote:

> How about making an Air Core Toroid. That can be made using a wax core.
> Then after winding it,
> some QDope or something in strips to hold the windings and then melting
> the wax. Or maybe a foam
> plastic core.
>
> Bill K7NOM

There was a manufacturer in the 20s that used a coil like that. Thorola
- they called them donut coils. Looks like they just wound them on a
small form, maybe 1 inch, and then slid it off and bent it around
afterwards into the form of a donut.

Never heard any comment yeah or nay about their efficacy.

-Bill M

```
From -9079389350260608816
X-Google-Thread: 241b302a50,b8985eb83f3a944a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!a5g2000pre.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimenting with Coils for Crystal Sets
Date: Mon, 27 Apr 2009 09:15:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <2310c5d3-c948-4ced-bb49-22fec5a79bb3@a5g2000pre.googlegroups.com>
References: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
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     <gt4bjj028rh@news7.newsguy.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240848930 1457 127.0.0.1 (27 Apr 2009 16:15:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 27 Apr 2009 16:15:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2618

On Apr 27, 9:22=A0am, Bill M <radioex...@geeemail.com> wrote:
> Bill Janssen wrote:
> > How about making an Air Core Toroid. That can be made using a wax core.
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> > some QDope or something in strips to hold the windings and then melting
> > the wax. Or maybe a foam
> > plastic core.
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> > Bill K7NOM
>
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a
> - they called them donut coils. =A0Looks like they just wound them on a
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> afterwards into the form of a donut.
>
> Never heard any comment yeah or nay about their efficacy.
>
> -Bill M
```

I think the best one I ever made used an oatmeal box for a form. Big air core coils seems to be the way to go. I built a kit that used a pair of loopstick coils and the best I could ever do wiith it was a couple of local stations. I think it was a Heathkit. A good RF ground seemed to benifit the receiver more than the antenna. Back in the day my father had a service station with about two acres of concrete out front. I was able to connect into a ground point that hooked it up to all the wire and rebar in the concrete.

Jimmie

From -9110638278144667382
X-Google-Thread: 241b302a50,b8985eb83f3a944a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
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From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimenting with Coils for Crystal Sets
Message-ID: <7aqbv4tc4t83ppudunqerpmmlp7pgsnug4@4ax.com>
References: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com> <jv2dnX42nKLOR27UnZ2dnUVZ_sydnZ2d@web-ster.com> <277330a1-b3f5-4246-a82d-6b7fabfca602@d25g2000prn.googlegroups.com>
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MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 46
Date: Mon, 27 Apr 2009 20:30:41 +0300
NNTP-Posting-Host: 85.77.239.47
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1240853440 85.77.239.47 (Mon, 27 Apr 2009 20:30:40 EEST)
NNTP-Posting-Date: Mon, 27 Apr 2009 20:30:40 EEST
Organization: Elisa Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:2619

On Mon, 27 Apr 2009 05:32:07 -0700 (PDT), David <DavidBR549@gmail.com> wrote:

>On Apr 25, 10:51�pm, Tim Wescott <t...@seemywebsite.com> wrote:
>> David wrote:
>> > Was just wandering if anyone has used or experimented with television
>> > IF, Video and Detector coils, most are slug tuned coils that have a
>> > few uh to several hundred uh, some are sheilded some are not, i have
>> > about 500 that i bought years ago, a lot of them look very close too
>> > the old loopstick type coils, looking for
>> > ideas.

```
>> > Thanks David
>>
>> They'll have very low Q, and therefore not really be suitable for a
>> crystal radio, where low-Q coils fight your ability to get good
>> selectivity without burning up all your signal before it gets to the
>> headphones.
>>
>> There's a whole bunch of _other_ cool things you can do with them, just
>> not Xtal sets.
>>
>> --
>>
>> Tim Wescott
>> Wescott Design Serviceshttp://www.wescottdesign.com
>>
>> Do you need to implement control loops in software?
>> "Applied Control Theory for Embedded Systems" was written for you.
>> See details athttp://www.wescottdesign.com/actfes/actfes.html
>
>What would be a good Q range for AM broadcast & Shortwave bands.

If your _loaded_ Q is 100, the -3 dB bandwidth at 1 MHz would be 10
kHz (i.e. +/- 5 kHz from the carrier). The question is, what should
the _un_loaded Q be ?

If you have a full sized antenna, the signal strength would be
sufficient even with an unloaded Q of just 100-200.

At the middle of the HF band (10 MHz) a loaded Q of 1000 would be
required for a single station bandwidth and quite large helical
resonators would be required to get a usable unloaded Q without
damping the resonant circuit Q too much.

Paul OH3LWR



From 4850740689357272045
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X-Google-NewGroupId: yes
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ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 27 Apr 2009 15:43:42 -0500
Date: Mon, 27 Apr 2009 13:43:41 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.21 (X11/20090318)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimenting with Coils for Crystal Sets
References: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
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<jv2dnX42nKLOR27UnZ2dnUVZ_sydnZ2d@web-ster.com> <277330a1-b3f5-4246-
a82d-6b7fabfca602@d25g2000prn.googlegroups.com>
<7aqbv4tc4t83ppudunqerpmmlp7pgsnug4@4ax.com>
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properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2620

Paul Keinanen wrote:
> On Mon, 27 Apr 2009 05:32:07 -0700 (PDT), David <DavidBR549@gmail.com>
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>
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>>>
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```

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>
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>
> Paul OH3LWR
>

What Paul didn't mention is that the ratio between the unloaded and loaded Q is pretty much the ratio between the energy coming from the antenna and the energy that's wasted in the tank.

I.e. if your unloaded Q equals your loaded Q, then you're using up _all_ the energy in the tank, and there's none left over for your headphones.
  If your unloaded Q is 200 and your loaded is the 100 that you'd want for AM reception, you're using as much energy heating up your tank circuit as you are using to drive your headphones.

So insanely efficient tank circuits are a necessity for a crystal set.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

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From -7081595480360075791
X-Google-Thread: 241b302a50,b8985eb83f3a944a
X-Google-Attributes: gid241b302a50,public,usenet
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feeder2.news.weretis.net!feeder.erje.net!feeder2.news.saunalahti.fi!
uutiset.elisa.fi!7564ea0f!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimenting with Coils for Crystal Sets
Message-ID: <naccv49oa82e8kb19q9po7sb9235viqms1@4ax.com>
References: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
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MIME-Version: 1.0

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NNTP-Posting-Date: Tue, 28 Apr 2009 01:49:17 EEST
Organization: Elisa Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:2621

On Mon, 27 Apr 2009 13:43:41 -0700, Tim Wescott <tim@seemywebsite.com>
wrote:

>Paul Keinanen wrote:
>> On Mon, 27 Apr 2009 05:32:07 -0700 (PDT), David <DavidBR549@gmail.com>
>> wrote:
>>
>>> On Apr 25, 10:51 pm, Tim Wescott <t...@seemywebsite.com> wrote:
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> If your unloaded Q is 200 and your loaded is the 100 that you'd want
>for AM reception, you're using as much energy heating up your tank
>circuit as you are using to drive your headphones.

I fully agree with this. With a Qu/Ql ratio 2:1 you end up with only 6
dB insertion loss.

However, the antenna capture area and hence the captured power (for a
constant field strength and hence constant power density) is inversely
proportional to the square of frequency (-6 dB/octave).

While a 1/2 wavelength dipole might be sufficient to feed a crystal
detector at 1 MHz, a 1/2 wave dipole at 10 MHz will unfortunately
produce only 1/100 the power.

Paul OH3LWR

From 2676548206058490285
X-Google-Thread: 241b302a50,c28ceab18268e02e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
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newshosting.com!newsfeed.news2me.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!
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nlpi070.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Source for high-Q HF inductors
References: <Bb8Il.215669$UQ6.79164@en-nntp-03.dc1.easynews.com>
In-Reply-To: <Bb8Il.215669$UQ6.79164@en-nntp-03.dc1.easynews.com>
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X-Complaints-To: abuse@prodigy.net
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Date: Mon, 27 Apr 2009 16:30:35 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2622

Joel Koltner wrote:
> Are there some vendors of readily available (stock) inductors that have
> reasonably good Q's (>100) throughout the HF band?
>
> I'm familiar with something like the Coilcraft "maxi springs"
> (http://coilcraft.com/maxi.cfm), and while they hit Q's of 100 by 30MHz, I'd
> really like something that's already there by 3MHz or less (...and still have
> a self-resonant frequency of >30MHz). This seems quite doable simply by
> making a larger coil with thicker wire, I'd just like to find a place that
> offers such inductors off-the-shelf rather than having to wind my own.
> Inductance in the ballpark of 1-10uH would be good, although it's not
> critical.
>
> The goal here is to try out making some adjustable notch filters for a
> receiver (by switching L's and C's in and out, like antenna tuners do).
> Hence, high Q is important, but power handling capability isn't so much, and
> anything smaller than a breadbox is fine size-wise.
>

There isn't much of a market for this stuff anymore, at least not since
the days of cloth-insulated wire :-)

Since it's for a receiver, how about building a Q-multiplier? Ok, many
youngster will scoff at that as being "archaic" but those things can
really rock.

--
Regards, Joerg

http://www.analogconsultants.com/

From -6660242844217983800
X-Google-Thread: 241b302a50,b8985eb83f3a944a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!v1g2000prd.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Re: Experimenting with Coils for Crystal Sets
Date: Mon, 27 Apr 2009 16:34:23 -0700 (PDT)
Organization: http://groups.google.com
Lines: 83
Message-ID: <7c5cb0df-a6c7-471a-9dda-83712234fa12@v1g2000prd.googlegroups.com>
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Xref: g2news2.google.com rec.radio.amateur.homebrew:2623

On Apr 27, 10:30=A0am, Paul Keinanen <keina...@sci.fi> wrote:
> On Mon, 27 Apr 2009 05:32:07 -0700 (PDT), David <DavidBR...@gmail.com>
> wrote:
>
>
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>
> If your _loaded_ Q is 100, the -3 dB bandwidth at 1 MHz would be 10
> kHz (i.e. +/- 5 kHz from the carrier). The question is, what should
> the _un_loaded Q be ?
>
> If you have a full sized antenna, the signal strength would be
> sufficient even with an unloaded Q of just 100-200.
>
> At the middle of the HF band (10 MHz) a loaded Q of 1000 would be
> required for a single station bandwidth and quite large helical
> resonators would be required to get a usable unloaded Q without
> damping the resonant circuit Q too much.
>
> Paul OH3LWR

To put some numbers on what Paul suggested:

If I want an unloaded coil Q of 2000 at 10MHz, I'd expect to need a coil about 5 inches (13cm) diameter and 10 inches (26cm) long--or similar. That assumes no loss to radiation. If I shield it to make a helical resonator, the Q will actually be lowered slightly, though such a large coil may have enough loss to radiation that it would be a wash between turning it into a helical resonator or leaving it in free air. Of course, with the shielding, it's less susceptible to changes in the environment around it. Anyway, the shield for a helical resonator should be a couple times the diameter of the coil, so it's a rather large arrangement anyway!

If you have very sensitive earphones (and sensitive ears!) and a good antenna, what may matter more than keeping the loss down to an absolute minimum is getting rid of interfering signals. A single-tuned circuit with 10kHz -3dB bandwidth offers only 20dB attenuation of a signal 50kHz away, and a signal 200kHz away is attenuated only about 32dB (assuming I didn't mess up my mental arithmetic). That's not a lot if you live in a metropolitan area with several stations nearby, and you want to hear the ones from far away. You can make the tuner with two or even three tuned circuits that are properly coupled, and get much better attenuation of those unwanted signals. But more tuned circuits means more loss in the tuner, too, even if you use high Q coils.

It's a really good idea to check out what others have done to advance the art of winding high Q coils for AM broadcast band frequencies, and of the circuits to use those coils to best advantage.

Cheers,

Tom

```
From 5917671292038746061
X-Google-Thread: 241b302a50,c28ceab18268e02e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 27 Apr 2009 19:57:54 -0500
Date: Mon, 27 Apr 2009 17:57:53 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.21 (X11/20090318)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Source for high-Q HF inductors
References: <Bb8Il.215669$UQ6.79164@en-nntp-03.dc1.easynews.com> <werJl.15475$
%54.9869@nlpi070.nbdc.sbc.com>
In-Reply-To: <werJl.15475$%54.9869@nlpi070.nbdc.sbc.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <lOCdnTo_6oYPyWvUnZ2dnUVZ_vSdnZ2d@web-ster.com>
Lines: 40
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
K0z2Hk3IZGdVBvhcAJefIpFWwVTGmRPRigpDSZ18Z4ySpN+Usxb7SIf5nlA5CM5JCTTA0q8dU9qpYyn!
8J2gj8vID6rkx2otRxJTPYrTb+BE81XhiWNbx73/fDWIUm7oEgP9rvQAPRS9nDdqd58MP/NHqnSM!
sZ+Wfc9la148pU4=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2873
Xref: g2news2.google.com rec.radio.amateur.homebrew:2624

Joerg wrote:
> Joel Koltner wrote:
>> Are there some vendors of readily available (stock) inductors that
>> have reasonably good Q's (>100) throughout the HF band?
>>
>> I'm familiar with something like the Coilcraft "maxi springs"
>> (http://coilcraft.com/maxi.cfm), and while they hit Q's of 100 by
>> 30MHz, I'd really like something that's already there by 3MHz or less
>> (...and still have a self-resonant frequency of >30MHz).  This seems
>> quite doable simply by making a larger coil with thicker wire, I'd
>> just like to find a place that offers such inductors off-the-shelf
>> rather than having to wind my own. Inductance in the ballpark of
>> 1-10uH would be good, although it's not critical.
>>
>> The goal here is to try out making some adjustable notch filters for a
>> receiver (by switching L's and C's in and out, like antenna tuners
```

>> do). Hence, high Q is important, but power handling capability isn't
>> so much, and anything smaller than a breadbox is fine size-wise.
>>
>
> There isn't much of a market for this stuff anymore, at least not since
> the days of cloth-insulated wire :-)
>
> Since it's for a receiver, how about building a Q-multiplier? Ok, many
> youngster will scoff at that as being "archaic" but those things can
> really rock.
>

I second that motion (since I'm not doing the work...).

I had thought of suggesting it, I should have done so.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" was written for you.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From -2433115852438638111
X-Google-Thread: 241b302a50,c28ceab18268e02e
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!prodigy.net!
flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!nlpi070.nbdc.sbc.com.POSTED!
78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Source for high-Q HF inductors
References: <Bb8Il.215669$UQ6.79164@en-nntp-03.dc1.easynews.com> <werJl.15475$
%54.9869@nlpi070.nbdc.sbc.com> <lOCdnTo_6oYPyWvUnZ2dnUVZ_vSdnZ2d@web-ster.com>
In-Reply-To: <lOCdnTo_6oYPyWvUnZ2dnUVZ_vSdnZ2d@web-ster.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 39
Message-ID: <6MsJl.15482$%54.12352@nlpi070.nbdc.sbc.com>
NNTP-Posting-Host: 75.26.183.172
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi070.nbdc.sbc.com 1240881282 ST000 75.26.183.172 (Mon, 27 Apr 2009
21:14:42 EDT)
NNTP-Posting-Date: Mon, 27 Apr 2009 21:14:42 EDT
Organization: at&t http://my.att.net/
```

```
X-UserInfo1:
SCSYQNON_ZUYB_TY]ZKTOFTBTR\B@GXLN@GZ_GYO^ZUDUWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
TINTDDMVW[X\THOPXZRVOCJTUTPC\_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Mon, 27 Apr 2009 18:14:41 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2625

Tim Wescott wrote:
> Joerg wrote:
>> Joel Koltner wrote:
>>> Are there some vendors of readily available (stock) inductors that
>>> have reasonably good Q's (>100) throughout the HF band?
>>>
>>> I'm familiar with something like the Coilcraft "maxi springs"
>>> (http://coilcraft.com/maxi.cfm), and while they hit Q's of 100 by
>>> 30MHz, I'd really like something that's already there by 3MHz or less
>>> (...and still have a self-resonant frequency of >30MHz).  This seems
>>> quite doable simply by making a larger coil with thicker wire, I'd
>>> just like to find a place that offers such inductors off-the-shelf
>>> rather than having to wind my own. Inductance in the ballpark of
>>> 1-10uH would be good, although it's not critical.
>>>
>>> The goal here is to try out making some adjustable notch filters for
>>> a receiver (by switching L's and C's in and out, like antenna tuners
>>> do). Hence, high Q is important, but power handling capability isn't
>>> so much, and anything smaller than a breadbox is fine size-wise.
>>>
>>
>> There isn't much of a market for this stuff anymore, at least not
>> since the days of cloth-insulated wire :-)
>>
>> Since it's for a receiver, how about building a Q-multiplier? Ok, many
>> youngster will scoff at that as being "archaic" but those things can
>> really rock.
>>
> I second that motion (since I'm not doing the work...).
>
> I had thought of suggesting it, I should have done so.
>

But now we gave away our age ;-)

--
Regards, Joerg

http://www.analogconsultants.com/


From -4515940933116948681
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
gnilink.net!spln!extra.newsguy.com!newsp.newsguy.com!news1
```

From: Bill M <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimenting with Coils for Crystal Sets
Date: Mon, 27 Apr 2009 21:02:33 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 33
Message-ID: <gt5rkd01cuk@news1.newsguy.com>
References: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
<jv2dnX42nKLOR27UnZ2dnUVZ_sydnZ2d@web-ster.com> <277330a1-b3f5-4246-a82d-6b7fabfca602@d25g2000prn.googlegroups.com>
<7aqbv4tc4t83ppudunqerpmmlp7pgsnug4@4ax.com> <7c5cb0df-a6c7-471a-9dda-83712234fa12@v1g2000prd.googlegroups.com>
NNTP-Posting-Host: p14d1bfbfff00000011b4ca8178c42f995e0853484e3ba9c3.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
In-Reply-To: <7c5cb0df-a6c7-471a-9dda-83712234fa12@v1g2000prd.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2626

K7ITM wrote:

>
> To put some numbers on what Paul suggested:
>
> If I want an unloaded coil Q of 2000 at 10MHz,

I stopped here.

I'd expect to need a....

No way you'll ever see 2000 Q at 10 Mcs. Can't happen. Some guys are approaching 2000 at 1 MC BCB but there's lots of expensive hoops to jump through to reach that point. Simply cannot be had at 10 Mcs. 200-300 on a good SW coil is about all that can be achieved.

> If you have very sensitive earphones (and sensitive ears!) and a good
> antenna, what may matter more than keeping the loss down to an
> absolute minimum is getting rid of interfering signals.

Thats Q.

=

> It's a really good idea to check out what others have done to advance
> the art of winding high Q coils for AM broadcast band frequencies, and
> of the circuits to use those coils to best advantage.

Indeed. But that agreed to there's no method to make the same numbers and techniques work at 10 Mcs. You really cannot achieve the numbers on SW as you can BCB given the 10x frequency difference.

```
From 6046273395155036295
X-Google-Thread: 241b302a50,b8985eb83f3a944a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!ecngs!feeder2.ecngs.de!feeder.erje.net!
feeder2.news.saunalahti.fi!uutiset.elisa.fi!7564ea0f!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimenting with Coils for Crystal Sets
Message-ID: <cd6dv4dis13l91nrbtls4e3a3n9v8bffor@4ax.com>
References: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
<jv2dnX42nKLOR27UnZ2dnUVZ_sydnZ2d@web-ster.com> <277330a1-b3f5-4246-
a82d-6b7fabfca602@d25g2000prn.googlegroups.com>
<7aqbv4tc4t83ppudunqerpmmlp7pgsnug4@4ax.com> <7c5cb0df-
a6c7-471a-9dda-83712234fa12@v1g2000prd.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 25
Date: Tue, 28 Apr 2009 08:59:14 +0300
NNTP-Posting-Host: 85.77.218.247
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1240898352 85.77.218.247 (Tue, 28 Apr 2009 08:59:12
EEST)
NNTP-Posting-Date: Tue, 28 Apr 2009 08:59:12 EEST
Organization: Elisa Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:2627
```

On Mon, 27 Apr 2009 16:34:23 -0700 (PDT), K7ITM <k7itm@msn.com> wrote:

>If you have very sensitive earphones (and sensitive ears!) and a good
>antenna, what may matter more than keeping the loss down to an
>absolute minimum is getting rid of interfering signals. A single-
>tuned circuit with 10kHz -3dB bandwidth offers only 20dB attenuation
>of a signal 50kHz away, and a signal 200kHz away is attenuated only
>about 32dB (assuming I didn't mess up my mental arithmetic). That's
>not a lot if you live in a metropolitan area with several stations
>nearby, and you want to hear the ones from far away. You can make the
>tuner with two or even three tuned circuits that are properly coupled,
>and get much better attenuation of those unwanted signals. But more
>tuned circuits means more loss in the tuner, too, even if you use high
>Q coils.

Unless you live very near an international SW broadcasters, how do you expect to get any usable amplitude modulated signal in the middle of the SW band for your crystal set ?

To make the situation even worse, the power delivered by a matched dipole at 10 MHz is only 1/100 (-20 dB) of the power delivered by a matched dipole on 1 MHz due to the antenna capture area.

Paul OH3LWR

```
From -1839310233522632452
X-Google-Thread: 241b302a50,b8985eb83f3a944a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!j9g2000prh.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimenting with Coils for Crystal Sets
Date: Mon, 27 Apr 2009 23:55:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 36
Message-ID: <b2ce8e90-5924-4a9b-9dd4-95b079443ba3@j9g2000prh.googlegroups.com>
References: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
     <jv2dnX42nKLOR27UnZ2dnUVZ_sydnZ2d@web-ster.com> <277330a1-b3f5-4246-
a82d-6b7fabfca602@d25g2000prn.googlegroups.com>
     <7aqbv4tc4t83ppudunqerpmmlp7pgsnug4@4ax.com> <7c5cb0df-
a6c7-471a-9dda-83712234fa12@v1g2000prd.googlegroups.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240901751 21625 127.0.0.1 (28 Apr 2009 06:55:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 28 Apr 2009 06:55:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j9g2000prh.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.9)
     Gecko/2009040821 Firefox/3.0.9,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2628
```

On Apr 27, 10:59=A0pm, Paul Keinanen <keina...@sci.fi> wrote:

```
> On Mon, 27 Apr 2009 16:34:23 -0700 (PDT), K7ITM <k7...@msn.com> wrote:
> >If you have very sensitive earphones (and sensitive ears!) and a good
> >antenna, what may matter more than keeping the loss down to an
> >absolute minimum is getting rid of interfering signals. =A0A single-
> >tuned circuit with 10kHz -3dB bandwidth offers only 20dB attenuation
> >of a signal 50kHz away, and a signal 200kHz away is attenuated only
> >about 32dB (assuming I didn't mess up my mental arithmetic). =A0That's
> >not a lot if you live in a metropolitan area with several stations
> >nearby, and you want to hear the ones from far away. =A0You can make the
> >tuner with two or even three tuned circuits that are properly coupled,
```

> >and get much better attenuation of those unwanted signals. =A0But more
> >tuned circuits means more loss in the tuner, too, even if you use high
> >Q coils.
>
> Unless you live very near an international SW broadcasters, how do you
> expect to get any usable amplitude modulated signal in the middle of
> the SW band for your crystal set ?
>
> To make the situation even worse, the power delivered by a matched
> dipole at 10 MHz is only 1/100 (-20 dB) of the power delivered by a
> matched dipole on 1 MHz due to the antenna capture area.
>
> Paul OH3LWR

Actually, I was thinking in the paragraph you quoted more of MW broadcast, but since you mention SW: I have it on good authority that European SW broadcasters put 7MHz signals into the East coast of the US at levels up to close to 0dBm into a receiver's antenna terminals when the skip is right. That's using an antenna with a bit of gain over a dipole, but nothing fantastic. (That level gave me a goal for strong-signal handling for an HF receiver I recently put into production.)

Cheers,
Tom

From 1548039851187368833
X-Google-Thread: 241b302a50,b8985eb83f3a944a
X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!p6g2000pre.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimenting with Coils for Crystal Sets
Date: Tue, 28 Apr 2009 00:18:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 40
Message-ID: <27884c27-0037-4b50-8368-c83a80c8cf1a@p6g2000pre.googlegroups.com>
References: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
<jv2dnX42nKLOR27UnZ2dnUVZ_sydnZ2d@web-ster.com> <277330a1-b3f5-4246-a82d-6b7fabfca602@d25g2000prn.googlegroups.com>
<7aqbv4tc4t83ppudunqerpmmlp7pgsnug4@4ax.com> <7c5cb0df-a6c7-471a-9dda-83712234fa12@v1g2000prd.googlegroups.com>
<gt5rkd01cuk@news1.newsguy.com>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240903100 17622 127.0.0.1 (28 Apr 2009 07:18:20 GMT)
X-Complaints-To: groups-abuse@google.com

```
NNTP-Posting-Date: Tue, 28 Apr 2009 07:18:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p6g2000pre.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.9)
     Gecko/2009040821 Firefox/3.0.9,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2629

On Apr 27, 8:02=A0pm, Bill M <radioex...@geeemail.com> wrote:
> K7ITM wrote:
>
> > To put some numbers on what Paul suggested:
>
> > If I want an unloaded coil Q of 2000 at 10MHz,
>
> I stopped here.
>
> I'd expect to need a....
>
> No way you'll ever see 2000 Q at 10 Mcs. Can't happen. Some guys are
> approaching 2000 at 1 MC BCB but there's lots of expensive hoops to jump
> through to reach that point. =A0Simply cannot be had at 10 Mcs. =A0200-30=
0
> on a good SW coil is about all that can be achieved.
...
Interesting comment.  In the filters I build for test fixtures, I use
air-core coils that are about 1" diameter and 1" long, and they give
me Qu in excess of 300 at 10MHz.  For what I do, I don't need Qu up in
the thousands, and don't have room for really big coils, but can you
give me a reason I shouldn't expect Qu to scale linearly with size up
to the point where radiation losses become significant?

Can you tell me why I should think that the inductance calculator at
http://hamwaves.com/antennas/inductance.html is not giving me accurate
results when I put in, say, D=3D130mm, n=3D20, l=3D260mm, d=3D7mm, and
f=3D10MHz?  It agrees with other independent ways I have to estimate the
Qu of the ~1 inch coils I build, and those coils measure within
engineering tolerance of the estimates.

When you go to very large coils like this, you have to be careful
about the self-resonance becoming too low, but in the example above,
it's (barely) OK at 10MHz.  (Actually, you better be careful about the
self-resonance of any coil...)  Fewer turns of larger diameter
"wire" (tubing:  cheaper, and easier to work with) can yield about the
same Qu and a considerably higher self-resonance.

Cheers,
Tom


From -5820924797758052072
X-Google-Thread: 241b302a50,b8985eb83f3a944a
```

X-Google-Attributes: gid241b302a50,public,usenet
X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!newsp.newsguy.com!news5
From: Bill M <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimenting with Coils for Crystal Sets
Date: Tue, 28 Apr 2009 06:20:15 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 43
Message-ID: <gt6sa10uli@news5.newsguy.com>
References: <88950a76-bcf3-4e0d-bd7d-67700339d036@q33g2000pra.googlegroups.com>
<jv2dnX42nKLOR27UnZ2dnUVZ_sydnZ2d@web-ster.com> <277330a1-b3f5-4246-a82d-6b7fabfca602@d25g2000prn.googlegroups.com>
<7aqbv4tc4t83ppudunqerpmmlp7pgsnug4@4ax.com> <7c5cb0df-a6c7-471a-9dda-83712234fa12@v1g2000prd.googlegroups.com>
<gt5rkd01cuk@news1.newsguy.com> <27884c27-0037-4b50-8368-c83a80c8cf1a@p6g2000pre.googlegroups.com>
NNTP-Posting-Host: p3ab1e6356e1b8c42620e5065023de76509a4749d046ce9f1.newsdawg.com
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
In-Reply-To: <27884c27-0037-4b50-8368-c83a80c8cf1a@p6g2000pre.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2630

K7ITM wrote:
> On Apr 27, 8:02 pm, Bill M <radioex...@geeemail.com> wrote:
>> K7ITM wrote:
>>
>>> To put some numbers on what Paul suggested:
>>> If I want an unloaded coil Q of 2000 at 10MHz,
>> I stopped here.
>>
>> I'd expect to need a....
>>
>> No way you'll ever see 2000 Q at 10 Mcs. Can't happen. Some guys are
>> approaching 2000 at 1 MC BCB but there's lots of expensive hoops to jump
>> through to reach that point. Simply cannot be had at 10 Mcs. 200-300
>> on a good SW coil is about all that can be achieved.
> ...
> Interesting comment. In the filters I build for test fixtures, I use
> air-core coils that are about 1" diameter and 1" long, and they give
> me Qu in excess of 300 at 10MHz. For what I do, I don't need Qu up in
> the thousands, and don't have room for really big coils, but can you
> give me a reason I shouldn't expect Qu to scale linearly with size up
> to the point where radiation losses become significant?
>
> Can you tell me why I should think that the inductance calculator at
> http://hamwaves.com/antennas/inductance.html is not giving me accurate
> results when I put in, say, D=130mm, n=20, l=260mm, d=7mm, and

> f=10MHz? It agrees with other independent ways I have to estimate the Qu of the ~1 inch coils I build, and those coils measure within engineering tolerance of the estimates.

Self-capacitance (ultimately self-resonance) is always a contributing factor that prevents coils from achieving their maximum theoretical Q. Estimating coils whose Q is going to fall in the 200 range for other reasons is relatively easy but that doesn't mean you can scale upwards proportionately.

I build air coils in the 3 inch range along the lines of what is pictured here, http://www.sparkbench.com/homebrew/grebe/cr18.html

They only *measure* in the 250 range. Silver-plated wire could certainly improve a coil of this size but no way would you achieve numbers like 2000.

-Bill

From 8612116724757183897
X-Google-Thread: 241b302a50,3178fe034e7087f4,start
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X-Google-NewGroupId: yes
X-Google-Language: ENGLISH,ASCII-7-bit
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Date: Tue, 28 Apr 2009 14:58:33 +0200
From: Herbert Breitenfellner <herb.breitenfellner@aon.at>
User-Agent: Thunderbird 2.0.0.21 (X11/20090318)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Motorola transistor
Content-Type: text/plain; charset=ISO-8859-15; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 11
Message-ID: <49f6fd80$0$2295$91cee783@newsreader02.highway.telekom.at>
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X-Trace: 1240923520 newsreader02.highway.telekom.at 2295 62.47.56.28:15240
Xref: g2news2.google.com rec.radio.amateur.homebrew:2631

Hi All,
i am looking for a datasheet for a transistor in a TO 5 Case with a Motorola logo on top.
Label: 1.line is SS3693
        2.line is 836
May someone have an old Motorola databook or something like that and can make a copy for me.

Thanks and vy73 de Herb oe5brl

From -4872740661777419506
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!x6g2000vbg.googlegroups.com!not-for-mail
From: Mike Silva <snarflemike@yahoo.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Tue, 21 Apr 2009 07:00:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <324f9220-eb00-4fc5-a025-902eba9f62e9@x6g2000vbg.googlegroups.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
NNTP-Posting-Host: 74.5.191.236
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240322427 6243 127.0.0.1 (21 Apr 2009 14:00:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 21 Apr 2009 14:00:27 +0000 (UTC)
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posting-account=QgO_5wkAAACZKtAvkb3f1VNDm9C58qLr
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
.NET CLR 2.0.50727; .NET CLR 3.0.04506; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:92554
rec.radio.amateur.homebrew:2532

On Apr 20, 12:50=A0pm, Tim Shoppa <sho...@trailing-edge.com> wrote:
> A terminology question I suppose about the derivation of the term
> "Superheterodyne" more than anything else:
>
> Does the "Super" actually mean anything? Is there a Subheterodyne?
>
> Traditionally superhets mix a higher radio frequency down to a lower
> IF frequency, but certainly in the past few decades radios with IF's
> above the RF frequency have become very common in broadband
> applications, and those are still called superhets, not subhets :-).
>
> Google turns up a couple hits on subheterodyne but other than one that
> might mean "IF higher in frequency than RF" I don't recognize what
> they mean..
>
> I suspect that "Super" was more a marketing term than anything
> else :-).
>
> Tim N3QE

Remember that his previous receiver invention, the regenerative detector, would produce an audible heterodyne when used in the oscillating-detector mode (for reception of CW, not AM signals). So it would make sense for him to think of his new principle as producing a supersonic heterodyne (IIRC around 50kHz or so).

And then there's the super regenerative detector, a regenerative detector which is driven into and out of oscillation at (typically) a supersonic frequency.

Mike

From 5312066609798578712
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!dd653b87!not-for-mail
From: Rich Grise <rich@example.net>
Subject: Re: If Superheterodyne, why not Subheterodyne?
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table)
Message-Id: <pan.2009.04.21.20.39.01.742398@example.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<3a6dad5b-16e9-40fe-9acc-9fde88f0ba46@j18g2000prm.googlegroups.com>
<997d4b3b-1a92-4136-9d2e-81bc210f1c7b@e21g2000yqb.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 12
Date: Tue, 21 Apr 2009 19:39:14 GMT
NNTP-Posting-Host: 71.119.122.152
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1240342754 71.119.122.152 (Tue, 21 Apr 2009 15:39:14 EDT)
NNTP-Posting-Date: Tue, 21 Apr 2009 15:39:14 EDT
Xref: g2news1.google.com sci.electronics.design:77933
rec.radio.amateur.homebrew:2236
X-Original-Bytes: 1459

On Mon, 20 Apr 2009 23:02:59 -0700, Greegor wrote:
>
> A 5-tubes superhet receiver made in Japan about 1955.

Notwithstanding I didn't see this line at
http://en.wikipedia.org/wiki/Superheterodyne_receiver ,
when I was a kid, we had an "All-American Five" WELL before 1955.
http://en.wikipedia.org/wiki/All_American_Five

Hope This Helps!

Rich

```
From 7159165288988045075
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flpi107.ffdc.sbc.com!nlpi070.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: nixie driver
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
     <01029c48-2d92-46cf-ac3f-cdc0ded782aa@f14g2000vbf.googlegroups.com>
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a5ac-89a22df83350@x6g2000vbg.googlegroups.com>
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X-Trace: nlpi070.nbdc.sbc.com 1240349671 ST000 75.26.174.11 (Tue, 21 Apr 2009
17:34:31 EDT)
NNTP-Posting-Date: Tue, 21 Apr 2009 17:34:31 EDT
Organization: at&t http://my.att.net/
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Date: Tue, 21 Apr 2009 14:34:28 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2534

JIMMIE wrote:
> On Apr 19, 2:00 pm, Bruce W. Ellis <el...@means.net> wrote:
>> On Wed, 8 Apr 2009 06:51:53 -0700 (PDT), Tim Shoppa
>>
>>
>>
>>
>>
>> <sho...@trailing-edge.com> wrote:
>>> On Apr 3, 10:34 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>>>> I have a Systron Donner frequency counter that uses Nixie tubes. The
>>>> counter works fine but I am forever replacing the Nixie drivers
>>>> 74141s. I started to use it this AM an one was out. Is there a
>>>> replacement for the 74141, I couldnt find one, or is there a circuit I
>>>> could build on a DIP header to replace them. I could probably design
```

>>>> one but I wanted something tried an tested as I dont want to put my
>>>> counter board at more risk than I have to.
>>> Domestic 74141's are hard to find these days but on E-bay the Russian
>>> equivalent is very common.
>>> Yes, you could build just about anything with a one-of-ten decoder and
>>> some current-sink drivers to do the same.
>>> If the goal isn't nixie tubes but is a working frequency counter, you
>>> could probably put the counter up on E-bay for somebody who wants
>>> nixie tubes, and use the money to buy several superior frequency
>>> counters.
>>> Tim N3QE
>> Just remember to cut down on the voltage and current to the nixie
>> tubes and the 141s will last forever...
>>
>> Bruce W0BF- Hide quoted text -
>>
>> - Show quoted text -
>
> Thanks all for the input. I managed to cut the voltage back from about
> 210VDC to 185VDC and the display still looks good, the change in
> brightness was barely discernable. It may take a while to see if this
> helped. What voltage do you normally run on nixies. I wish I had more
> data on the nixies but I dont have a part number.
>

Yikes, 210V sounds high. I just took a look at the old 1985 databook
from TI. It does not state an abs max off-state voltage but under
recommended operating conditions it says 60V. If memory serves me right
mine used to run around 150V.

This datasheet says 60V minimum and it appears there are zeners built in
that limit what the 74141 output transistor sees:

http://wiki.cecs.pdx.edu/pub/JoeProjects/NixieClock/74141.pdf

Probably that zener is low enough in voltage not to fry the transistor
yet high enough that the nixie element will extinguish. BTW there are
lots of 74141 on Ebay for around $0.50-$1.00 in medium quantities. Looks
like they are from Russia.

--
73, Joerg

From -8920649693156509879
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
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X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!x5g2000yqk.googlegroups.com!not-for-mail
From: AF6AY <LenAnderson@ieee.org>

```
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Tue, 21 Apr 2009 14:46:47 -0700 (PDT)
Organization: http://groups.google.com
Lines: 74
Message-ID: <9b3d591c-39b0-45d9-85e0-7277039882d3@x5g2000yqk.googlegroups.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
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d79f91d3a428@m19g2000yqk.googlegroups.com>
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NNTP-Posting-Date: Tue, 21 Apr 2009 21:46:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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Xref: g2news1.google.com sci.electronics.design:77988
rec.radio.amateur.homebrew:2238

On Apr 21, 5:34=EF=BF=BDam, Tim Shoppa <sho...@trailing-edge.com> wrote:
> On Apr 21, 1:05=EF=BF=BDam, "Phil Allison" <philalli...@tpg.com.au> wrote=
:
>
> > "AF6AY"
>
> > > Everyone ought to realize that "Wikipedia" data can be written by
> > > ANYONE
>
> > ** As are NG posts.
>
> > The difference being that Wikis are full of checkable references and ar=
e
> > subject to on-going correction.
>
> The best Wikipedia articles are often filled with good checkable
> references, but other times it sounds like they were written in a
> foreign language and translated into English and have few (if any)
> good references.
```

One can write just about anything so that it looks good and authentic. :-)

There is plenty of rather authentic information on Edward Howard Armstrong, including scans of Armstrong's patents.

As to the words "supersonic" and "subsonic" I doubt that those were coined
prior to around 1930, rather long after the superheterodyne came into being as the very model of a modern major receiver structure.

Argument over the 'super' prefix/designator would come a cropper on things
like the super-regenerative receiver which use a sort of burst oscillation at
frequencies quite higher than young adult hearing maximum of 15 KHz, i.e., "supersonic" in terms of frequency. In aerospace, "supersonic" is a term for going faster than the speed of sound.

As to "typically converting the signal frequency below the range of tuning," that WAS true but it applies only to most superhets that were designed prior to WWII (at least 60 years ago). Those mixers used only the difference frequency output while the sum frequency output just dissipated internally. That changed with UP-conversion, notably in Collins Radio designs for their lowest selectable bands, then in the first wideband spectrum analyzers covering a full GHz in one sweep. Those early spectrum analyzers would up-convert 0 to 1 GHz to a 2 GHz first IF, then down-convert from there. 2 GHz is so far above 'supersonic' that it would be a misuse of it.

> Somewhere there's a bunch of people who spend their time correcting
> and improving Wikipedia entries, and I think overall they are doing a
> good job, but that doesn't mean the result is always devoted to my
> interests. Just like anything else in this world, it's got workers and
> it's got managers and they aren't always devoting their attention to
> the little corners of arcania that I live in.

There's also a lot more folks who just vent their frustrations on everyone else, such as Phil Allison (who's profile can't be accessed because he violated the Terms of Service on Google).

As to the ORIGIN of technical terms, speaking as a lifetime engineer and technician and worker IN engineering, it matters little as to etymology but a great deal more on the SUBJECT the word is referring to.

If anyone wants to think "supersonic" applied in 1918 to anything at all, then they are welcome to point out the "supersonic" aircraft of that time...made of pieces of steel, wood, wire, and fabric. :-) It was a long time between 1918 and 1947 when the first aircraft broke the 'sound barrier' (Bell X-1 piloted by Chuck Yeager).

73, Len AF6AY

From 4252279571515952093
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flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!nlpi066.nbdc.sbc.com.POSTED!
78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: nixie driver
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
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NNTP-Posting-Host: 75.26.174.11
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X-Trace: nlpi066.nbdc.sbc.com 1240351647 ST000 75.26.174.11 (Tue, 21 Apr 2009
18:07:27 EDT)
NNTP-Posting-Date: Tue, 21 Apr 2009 18:07:27 EDT
Organization: at&t http://my.att.net/
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POG@SSAZQ\LE[DCNMUPG_VSC@VJM
Date: Tue, 21 Apr 2009 15:07:25 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:2239

Bruce W. Ellis wrote:
> On Wed, 8 Apr 2009 06:51:53 -0700 (PDT), Tim Shoppa
> <shoppa@trailing-edge.com> wrote:
>
>> On Apr 3, 10:34 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>>> I have a Systron Donner frequency counter that uses Nixie tubes. The
>>> counter works fine but I am forever replacing the Nixie drivers
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>>> replacement for the 74141, I couldnt find one, or is there a circuit I
>>> could build on a DIP header to replace them. I could probably design
>>> one but I wanted something tried an tested as I dont want to put my
>>> counter board at more risk than I have to.
>> Domestic 74141's are hard to find these days but on E-bay the Russian
>> equivalent is very common.
>>

>> Yes, you could build just about anything with a one-of-ten decoder and
>> some current-sink drivers to do the same.
>>
>> If the goal isn't nixie tubes but is a working frequency counter, you
>> could probably put the counter up on E-bay for somebody who wants
>> nixie tubes, and use the money to buy several superior frequency
>> counters.
>>
>> Tim N3QE
>
> Just remember to cut down on the voltage and current to the nixie
> tubes and the 141s will last forever...
>

One risk with such chips is that a nixie element occasionally reaches
strike voltage while the respective driver output is off. Or doesn't
extinguish right away when turned off. Then the dissipation in the 55V
zeners inside might be too much to stomach for the little chip.
According to the datasheet those things aren't really high voltage switches.

--
73, Joerg

From -7550842720702112578
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
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bignumber.bellsouth.net!news.bellsouth.net!bignews4.bellsouth.net.POSTED!2eb35c21!
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From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Mozilla-Thunderbird 2.0.0.19 (X11/20090103)
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Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
     <Xns9BF37A18D3745VeebleFetzer@216.250.184.7> <9fc4e2d5-f652-4719-
b3d9-4a0edb0b5451@y9g2000yqg.googlegroups.com>
In-Reply-To: <9fc4e2d5-f652-4719-b3d9-4a0edb0b5451@y9g2000yqg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 29
Message-ID: <xlsHl.31995$qa.18506@bignews4.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
npbhgpngjbkmjfegdbdpiflmbcekedmfhojhikkbagflhcbocaobojgloamjelglmnmfofihnblfeanpjn
bldokjdnhofocmhlbjpbippnceoinfkhfaopkljblkfoadaobjebnohcglfhdjebeelhcnmdabofba
NNTP-Posting-Date: Tue, 21 Apr 2009 19:08:13 EDT
Organization: BellSouth Internet Group

```
Date: Tue, 21 Apr 2009 19:14:27 -0400
Xref: g2news1.google.com sci.electronics.design:78010
rec.radio.amateur.homebrew:2240

Jean-Christophe wrote:
> On Apr 20, 5:50 pm, Tim Shoppa <sho...@trailing-edge.com> wrote:
>> A terminology question I suppose about the derivation of the term
>> "Superheterodyne" more than anything else:
>>
>> Does the "Super" actually mean anything? Is there a Subheterodyne?
>> Traditionally superhets mix a higher radio frequency down to a lower
>> IF frequency, but certainly in the past few decades radios with IF's
>> above the RF frequency have become very common in broadband
>> applications, and those are still called superhets, not subhets :-).
>> Google turns up a couple hits on subheterodyne but other than one that
>> might mean "IF higher in frequency than RF" I don't recognize what
>> they mean..
>
> A superheterodyne can be Supradyne or Infradyne,
> depending of the IF against the RF.
>
>> I suspect that "Super" was more a marketing term than anything
>> else :-).
>
> I don't superthink so.
There was a type of circuit called the 'heterodyne', which is actually
just a direct conversion receiver.  Adding the IF stage made it a
'super' heterodyne.

Also remember the 'super-regenerative' circuit?  That was an improvement
over the regenerative receiver in that feedback could be increased past
the self oscillation point to get even more gain via the use of a
supersonic quench oscillator.  So maybe the prefex DOES refer to supersonic.


From 2834326409211395764
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!npeer03.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews4.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Mozilla-Thunderbird 2.0.0.19 (X11/20090103)
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<754kfcF1691ciU1@mid.individual.net>
In-Reply-To: <754kfcF1691ciU1@mid.individual.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
```

```
Content-Transfer-Encoding: 7bit
Lines: 7
Message-ID: <VssHl.31998$qa.20466@bignews4.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
npbhgpngjbkmjfegdbdpiflmbcekedmfhojhikkbagflhcboeopmdgpokkklmabgbcjhjhfbdgakjgbkjn
bldokjdnhofocmhlbjpbippnceoinfkhfaopkljblkfoadlpkhcgeimdedfnmnihoeacghehcllhhe
NNTP-Posting-Date: Tue, 21 Apr 2009 19:16:05 EDT
Organization: BellSouth Internet Group
Date: Tue, 21 Apr 2009 19:22:19 -0400
Xref: g2news1.google.com sci.electronics.design:78014
rec.radio.amateur.homebrew:2241

P>
>> Is there a Subheterodyne?
>
> **  No.
>
But if you wind your tickler coil bass-ackwards you end up
with a degenerative receiver circuit.



From 1431364888646320439
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: "Phil Allison" <philallison@tpg.com.au>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Wed, 22 Apr 2009 10:35:50 +1000
Lines: 27
Message-ID: <757736F16phubU1@mid.individual.net>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com> <64d06f97-d4a2-4917-a0cc-
d79f91d3a428@m19g2000yqk.googlegroups.com>
<q2kpu4dsupiopinf8qjuoi9o2thqgvr0mr@4ax.com> <9f7d92d4-041d-4f08-
bfdd-01951381986c@k2g2000yql.googlegroups.com> <661f780c-
eef9-4d70-92e1-628f97277533@k19g2000prh.googlegroups.com>
<7552fvF15d317U1@mid.individual.net> <a716def6-9cd2-48a8-b202-
e408e7900ce1@k38g2000yqh.googlegroups.com>
<9b3d591c-39b0-45d9-85e0-7277039882d3@x5g2000yqk.googlegroups.com>
X-Trace: individual.net Da7ygAOGlt/O7yjeQOLlogxaS2AX6c7RfO7d+K46jGRkQeajYm
Cancel-Lock: sha1:gH3Zfik8fP5YGmxq7mw4B7CKAWQ=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Xref: g2news1.google.com sci.electronics.design:78032
```

rec.radio.amateur.homebrew:2242

"AF6AY" = radio ham nutter

One can write just about anything so that it looks good and
authentic. :-)

** Shame how that leaves this retarded old ham out in the cold.

As to the words "supersonic" and "subsonic" I doubt that those were
coined prior to around 1930,

** So the clot has no idea what terms were in use back then at all - but
it suits him to pretend that he knows.

What a hee-hawing bloody ASS.

...... Phil

From -905552072964930143
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!newshub.sdsu.edu!
flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!nlpi065.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<M84Hl.25054$Ws1.15748@nlpi064.nbdc.sbc.com>
<k5kpu49aemc48i3u7hemml9jelg6plu7br@4ax.com>
<yl4Hl.25056$Ws1.2821@nlpi064.nbdc.sbc.com>
<taqdnWXbhNru4HDUnZ2dnUVZ_vOdnZ2d@posted.localnet>
<AUiHl.6549$ZY2.261740@news.siol.net>
In-Reply-To: <AUiHl.6549$ZY2.261740@news.siol.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

Lines: 55
Message-ID: <tGtHl.25165$c45.16415@nlpi065.nbdc.sbc.com>
NNTP-Posting-Host: 75.26.174.11
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi065.nbdc.sbc.com 1240360729 ST000 75.26.174.11 (Tue, 21 Apr 2009
20:38:49 EDT)
NNTP-Posting-Date: Tue, 21 Apr 2009 20:38:49 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
TSUGG[[DPRR]R_DYFBCD^VX@WB]^PCPDLXUNNHLIWIWTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Tue, 21 Apr 2009 17:38:47 -0700
Xref: g2news1.google.com sci.electronics.design:78035
rec.radio.amateur.homebrew:2243

TheM wrote:
> "Robert Baer" <robertbaer@localnet.com> wrote in message
news:taqdnWXbhNru4HDUnZ2dnUVZ_vOdnZ2d@posted.localnet...
>> Joerg wrote:
>>
>>> John Larkin wrote:
>>>
>>>> On Mon, 20 Apr 2009 12:36:12 -0700, Joerg
>>>> <notthisjoergsch@removethispacbell.net> wrote:
>>>>
>>>>> Tim Shoppa wrote:
>>>>>
>>>>>> A terminology question I suppose about the derivation of the term
>>>>>> "Superheterodyne" more than anything else:
>>>>>>
>>>>>> Does the "Super" actually mean anything? Is there a Subheterodyne?
>>>>>>
>>>>>> Traditionally superhets mix a higher radio frequency down to a lower
>>>>>> IF frequency, but certainly in the past few decades radios with IF's
>>>>>> above the RF frequency have become very common in broadband
>>>>>> applications, and those are still called superhets, not subhets :-).
>>>>>>
>>>>>> Google turns up a couple hits on subheterodyne but other than one that
>>>>>> might mean "IF higher in frequency than RF" I don't recognize what
>>>>>> they mean..
>>>>>>
>>>>>> I suspect that "Super" was more a marketing term than anything
>>>>>> else :-).
>>>>>>
>>>>> If you want to file a new patent for old stuff you could try subheterodyne
and it just might sail through :-)
>>>>>
>>>>> Oh wait, call it hyperheterodyne, has more glitz. Just like the
supermercados in Spain.
>>>>
>>> I meant hypermercados :-)
>>>

```
>>>
>>>> I think we're going to be doing a superhet receiver soon. Maybe we'll
>>>> do it in an FPGA!
>>>>
>>> How'd you do the preamp in there?
>>>
>>   Bit shift?
>
> Yes, but 2x zero is still zero... :)
>
> M

... +/-3dB.

--
Regards, Joerg

http://www.analogconsultants.com/

"gmail" domain blocked because of excessive spam.
Use another domain or send PM.


From 4251463171951513947
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
feeder.erje.net!newsfeed.velia.net!news.tu-darmstadt.de!fu-berlin.de!uni-
berlin.de!individual.net!not-for-mail
From: "Phil Allison" <philallison@tpg.com.au>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Wed, 22 Apr 2009 10:43:29 +1000
Lines: 29
Message-ID: <7577hhF15ouijU1@mid.individual.net>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<3a6dad5b-16e9-40fe-9acc-9fde88f0ba46@j18g2000prm.googlegroups.com>
<997d4b3b-1a92-4136-9d2e-81bc210f1c7b@e21g2000yqb.googlegroups.com> <a100ab99-
e376-4fbd-9950-6b811457c392@k41g2000yqh.googlegroups.com>
X-Trace: individual.net LjPTc7RViIsDxBe5vw8JQwdNP/xsVqad55p2DKmqQq7MSHO8XF
Cancel-Lock: sha1:3kmiPivXspUZyQb5BSfLkiahYyc=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Xref: g2news2.google.com sci.electronics.design:92749
rec.radio.amateur.homebrew:2541
```

"Tim Shoppa the Wanker "
 Greegor the Geek
> What specifically are your complaints with this Wiki ?
>
> http://en.wikipedia.org/wiki/Superheterodyne_receiver

A 180 Kbyte article about a technology developed in the 1910's,

** Irrelevant when it was first developed - cos it is still current tech.

    The article is not pretending to be being a history lesson.

A smaller point, is that the language sounds a lot like it was written
in a language other than English and then translated.

** That is an utterly absurd idea.

   Smacks of paranoid schizophrenia.

   Shoppa has completely lost it.

.....   Phil

From -5749569375588892945
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: "Phil Allison" <philallison@tpg.com.au>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Tim Shoppa the Shithead Troll
Date: Wed, 22 Apr 2009 10:54:07 +1000
Lines: 62
Message-ID: <75785fF16246sU1@mid.individual.net>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com> <64d06f97-d4a2-4917-a0cc-
d79f91d3a428@m19g2000yqk.googlegroups.com>
<q2kpu4dsupiopinf8qjuoi9o2thqgvr0mr@4ax.com> <9f7d92d4-041d-4f08-
bfdd-01951381986c@k2g2000yql.googlegroups.com> <661f780c-
eef9-4d70-92e1-628f97277533@k19g2000prh.googlegroups.com>
<7552fvF15d317U1@mid.individual.net> <a716def6-9cd2-48a8-b202-
e408e7900ce1@k38g2000yqh.googlegroups.com> <755tmqF16oherU1@mid.individual.net>
<ff1ed7d5-0843-4747-9ff8-79cf65f62664@n8g2000vbb.googlegroups.com>
X-Trace: individual.net G/nH7+ZpRzk2m1GWPyKAVwPri9i4p5nNKV38RG6IOWAPi2eRNZ

Cancel-Lock: sha1:1D3I4q/I81l4bIoqCriPkAhgl8I=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Xref: g2news1.google.com sci.electronics.design:78041
rec.radio.amateur.homebrew:2245

"Tim Shoppa the Shithead Troll "

> > Everyone ought to realize that "Wikipedia" data can be written by
> > ANYONE
>
> ** As are NG posts.
>
> The difference being that Wikis are full of checkable references and are
> subject to on-going correction.

The best Wikipedia articles are often filled with good checkable
references, but other times it sounds like they were written in a
foreign language and translated into English

** Only indicates your lack of comprehension.

Just because a Wikipedia entry isn't well-written or sounds awkward

** You are irrationally obsessed with style over content.

Mostly likely because you cannot comprehend the content.

Somewhere there's a bunch of people who spend their time correcting
and improving Wikipedia entries, and I think overall they are doing a
good job, but that doesn't mean the result is always devoted to my
interests.

** What a revolting, pompous little narcissist you are - Tim.

Just like anything else in this world, it's got workers and
it's got managers and they aren't always devoting their attention to
the little corners of arcania that I live in.

** I was much too kind earlier ....

It's not that the Encyclopedia Britannica is perfect either. I can
open it up to the very few subjects that I happen to be expert on and
find over-simplifications and a lack of cites to what I consider to be

the best references.

** Mere narcissism has just turned into full blown ego-mania.

Of course in academia I got real used to opening a journal and instead
of reading the articles, to go straight to the references and see if
they are quoting one of my articles :-).

** Wot a nauseating computer geek puke.

......   Phil

From -7720141739686559798
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!x3g2000yqa.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Tim Shoppa the Shithead Troll
Date: Tue, 21 Apr 2009 18:47:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 12
Message-ID: <1f7e0374-bccd-4a23-bf58-9cd66e16fbe0@x3g2000yqa.googlegroups.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
     <cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com> <64d06f97-d4a2-4917-a0cc-d79f91d3a428@m19g2000yqk.googlegroups.com>
     <q2kpu4dsupiopinf8qjuoi9o2thqgvr0mr@4ax.com> <9f7d92d4-041d-4f08-bfdd-01951381986c@k2g2000yql.googlegroups.com>
     <661f780c-eef9-4d70-92e1-628f97277533@k19g2000prh.googlegroups.com>
     <7552fvF15d317U1@mid.individual.net> <a716def6-9cd2-48a8-b202-e408e7900ce1@k38g2000yqh.googlegroups.com>
     <755tmqF16oherU1@mid.individual.net>
<ff1ed7d5-0843-4747-9ff8-79cf65f62664@n8g2000vbb.googlegroups.com>
     <75785fF16246sU1@mid.individual.net>
NNTP-Posting-Host: 63.73.218.138
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240364824 5121 127.0.0.1 (22 Apr 2009 01:47:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 22 Apr 2009 01:47:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com

```
Injection-Info: x3g2000yqa.googlegroups.com; posting-host=63.73.218.138;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB5;
     .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com sci.electronics.design:78055
rec.radio.amateur.homebrew:2246
```

On Apr 21, 5:54=A0pm, "Phil Allison" <philalli...@tpg.com.au> wrote:

> ** =A0Only indicates your lack of comprehension.
> ** You are irrationally obsessed with style over content.
> ** What a revolting, pompous little narcissist you are =A0-
> ** =A0I was much too kind earlier ....
> ** =A0Mere narcissism has just turned into full blown ego-mania.
> ** Wot a nauseating computer geek puke.

There is a thin line between ignorance and arrogance, Phil. I have
erased that line!

Tim.

```
From 6590115553753093959
X-Google-Thread: fc2a5,d6daf85b243020bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!w35g2000prg.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: XTAL Radio Receiver Circuits
Date: Tue, 21 Apr 2009 18:47:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 49
Message-ID: <75703417-7862-44fb-b43f-11e09f7e9e17@w35g2000prg.googlegroups.com>
References: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
     <eaidnT16IoW_aHHUnZ2dnUVZ_v6dnZ2d@web-ster.com>
NNTP-Posting-Host: 76.226.138.86
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240364843 20354 127.0.0.1 (22 Apr 2009 01:47:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 22 Apr 2009 01:47:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w35g2000prg.googlegroups.com; posting-host=76.226.138.86;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.8)
     Gecko/2009032609 Firefox/3.0.8 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2544
```

On Apr 20, 6:20=A0pm, Tim Wescott <t...@seemywebsite.com> wrote:

> David wrote:
> > Looking for Crystal Radio Receiver Circuits, that have a voltage
> > quadrupler to increase headphone volume without batteries or AC power.
>
> If you are quadrupling the voltage at the headphones, then you are, of
> necessity, dividing the impedance at the detector by a factor of 16.
>
> You only have so much power available at the antenna; a detector
> followed by an unpowered "voltage quadrupler" won't extract any more
> power than any other equivalently-well-matched detector, and so won't
> put any more power to the headphones.
>
> If you really want to do this passively, and not rely on some near-by
> strong station for power, then you need to optimize your circuit and
> headphones for efficiency, and you need to get a _lot_ of wire into the a=
ir.
>
> --
>
> Tim Wescott
> Wescott Design Serviceshttp://www.wescottdesign.com
>
> Do you need to implement control loops in software?
> "Applied Control Theory for Embedded Systems" was written for you.
> See details athttp://www.wescottdesign.com/actfes/actfes.html

Hey OM:

What you claim may be true, but if I use a pair of 2000 ohm headphones
and have 100 millivolts into those phones, I would developed a power
into those headphones of 5 microwatts. Now if the voltage goes up 4
times to 400 millivolts the power developed into the phones is 80
microwatts. So it don't matter what the detector impedance is. The
headphones don't care what the impedance is, in this case.

Now if the detector impedance was 10,000 ohms then you have a
problem.

So basically is it optimized for say Edison electric to run a 50 amp
main to my house when I only use a 100 watt light bulb? The source
impedance is a lot lower than my 100 watt light bulb.

Don't forget a good ground connection also.

73 OM

de N8ZU

From -7701472561223063249
X-Google-Thread: fc2a5,d6daf85b243020bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet

X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!y33g2000prg.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: XTAL Radio Receiver Circuits
Date: Tue, 21 Apr 2009 19:00:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 39
Message-ID: <d3d8de38-56df-4166-ae8a-f0e4512f525f@y33g2000prg.googlegroups.com>
References: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
     <n31qu4d1v9v6636fdlr5au4mcl80n9cap5@4ax.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240365635 7576 127.0.0.1 (22 Apr 2009 02:00:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 22 Apr 2009 02:00:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y33g2000prg.googlegroups.com; posting-host=76.226.138.86;
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User-Agent: G2/1.0
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     Gecko/2009032609 Firefox/3.0.8 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2545

On Apr 20, 7:40=A0pm, Paul Keinanen <keina...@sci.fi> wrote:
> On Mon, 20 Apr 2009 11:34:49 -0700 (PDT), David <DavidBR...@gmail.com>
> wrote:
>
> >Looking for Crystal Radio Receiver Circuits, that have a voltage
> >quadrupler to increase headphone volume without batteries or AC power.
>
> I assume you are talking about a broadcast receiver for frequencies
> below 1600 kHz. At such frequencies and with a typical 500 pF variable
> capacitor, the impedance levels for an LC resonant circuit is quite
> high.
>
> Loading it with a crystal detector and some low impedance (30 or less)
> headphone will load the resonant circuit quite heavily, reducing the
> output quite heavily.
>
> In the old days, the typical impedance of a headphone might have been
> about 2000 ohms, loading the resonant circuit much less. In order to
> cause a similar loading to the resonant circuit using current
> headphones, you need an audio transformer with 2000:30 impedance ratio
> or 8:1 turns ratio.
>
> Paul OH3LWR

Hey OM

I know they still make 2000 ohm headphones, Philmore still makes them, then there is a crystal headphone.
A crystal headphone you can make yourself. It''s just a crystal microphone in reverse. I seen the QST article on how to make a crystal microphone.

But the best bar none, is a balanced armature headphones, those things are self powered, or so they say. And balanced armature headphones cost an arm and a leg too.

73 OM

de n8zu

From -2828654976506575913
X-Google-Thread: 112d1e,c81da0a04b8aae02
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X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
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From: "Phil Allison" <philallison@tpg.com.au>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Tim Shoppa the Autistic Troll
Date: Wed, 22 Apr 2009 12:03:07 +1000
Lines: 58
Message-ID: <757c6tF16tn21U1@mid.individual.net>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com> <cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com> <64d06f97-d4a2-4917-a0cc-d79f91d3a428@m19g2000yqk.googlegroups.com> <q2kpu4dsupiopinf8qjuoi9o2thqgvr0mr@4ax.com> <9f7d92d4-041d-4f08-bfdd-01951381986c@k2g2000yql.googlegroups.com> <661f780c-eef9-4d70-92e1-628f97277533@k19g2000prh.googlegroups.com> <7552fvF15d317U1@mid.individual.net> <a716def6-9cd2-48a8-b202-e408e7900ce1@k38g2000yqh.googlegroups.com> <755tmqF16oherU1@mid.individual.net> <ff1ed7d5-0843-4747-9ff8-79cf65f62664@n8g2000vbb.googlegroups.com> <75785fF16246sU1@mid.individual.net> <1f7e0374-bccd-4a23-bf58-9cd66e16fbe0@x3g2000yqa.googlegroups.com>
X-Trace: individual.net U+blUXgQFrL/vXjIXMj2ugv+rll/ZOGtt7C2czupkL5GrIcQpD
Cancel-Lock: sha1:NfWPNoNu1S9G6vy9+9eZG1pGz1o=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Xref: g2news1.google.com sci.electronics.design:78062 rec.radio.amateur.homebrew:2249

"Tim Shoppa = Autistic Troll "

The best Wikipedia articles are often filled with good checkable references, but other times it sounds like they were written in a foreign language and translated into English

** Only indicates an autistic lack of comprehension.

Just because a Wikipedia entry isn't well-written or sounds awkward

** You are autistically obsessed with imaginary flaws in the writing.

Mostly likely because you have gone quite insane.

Somewhere there's a bunch of people who spend their time correcting and improving Wikipedia entries, and I think overall they are doing a good job, but that doesn't mean the result is always devoted to my interests.

** What a revolting, pompous narcissistic pig you are - Tim.

Just like anything else in this world, it's got workers and it's got managers and they aren't always devoting their attention to the little corners of arcania that I live in.

** I was much too kind earlier ....

It's not that the Encyclopedia Britannica is perfect either. I can open it up to the very few subjects that I happen to be expert on and find over-simplifications and a lack of cites to what I consider to be the best references.

** Mere narcissism has just turned into full blown, autistic ego-mania.

Of course in academia I got real used to opening a journal and instead of reading the articles, to go straight to the references and see if they are quoting one of my articles :-).

** Shoppa's self delusions have made him a legend in his own mind.

When all he really has become is " history ".

..... Phil

From -2214534212593414OO
X-Google-Thread: fc2a5,d814ddbd924d1874
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!y6g2000prf.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Headphone Impedance
Date: Tue, 21 Apr 2009 19:19:06 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <757ef230-3bbd-4de6-9126-2fa6f772f0d2@y6g2000prf.googlegroups.com>
References: <d8ef4a43-b0b4-44e1-bebe-aa2d8c6397eb@l9g2000vba.googlegroups.com>
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X-Trace: posting.google.com 1240366746 26488 127.0.0.1 (22 Apr 2009 02:19:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 22 Apr 2009 02:19:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y6g2000prf.googlegroups.com; posting-host=76.226.138.86;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.8)
     Gecko/2009032609 Firefox/3.0.8 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2547

On Apr 20, 5:46=A0pm, David <DavidBR...@gmail.com> wrote:

> After measuring the headphones with an LCR meter, is there a way to
> take the inductance, capacitance and resistance to find the AC
> impedance of the headphones at 1KHZ?

Hay OM:

I wondered what the impedance of a crystal headphone would be. I guess just the capacitance and inductance of the wire going to the crystal. And at 1000 cycles that would be way up there.

I can bet for a certainty that 32 ohm headphones will be 32 ohms of impedance at 1000 cycles. Just think how much the inductance and capacitance will figure into the equation? Under 1% I bet at 1000 cycles.

73 OM

de n8zu

```
From 8182432123524805966
X-Google-Thread: fc2a5,d6daf85b243020bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news3
From: Bill M <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: XTAL Radio Receiver Circuits
Date: Tue, 21 Apr 2009 21:14:47 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 30
Message-ID: <gsm23e0qvc@news3.newsguy.com>
References: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
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b43f-11e09f7e9e17@w35g2000prg.googlegroups.com>
NNTP-Posting-Host: p24d1bfbfff00000073b1290e905b03f4f4edcc2ec7af5129.newsdawg.com
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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
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In-Reply-To: <75703417-7862-44fb-b43f-11e09f7e9e17@w35g2000prg.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:2251
```

raypsi wrote:

> Hey OM:
>
> What you claim may be true, but if I use a pair of 2000 ohm headphones and have 100 millivolts into those phones, I would developed a power into those headphones of 5 microwatts. Now if the voltage goes up 4 times to 400 millivolts the power developed into the phones is 80 microwatts. So it don't matter what the detector impedance is. The headphones don't care what the impedance is, in this case.

Yes it does. And no, your math is wrong. Phones don't respond to watts.

In a simple crystal radio the voltage is gained by NOT loading down the preceeding circuit. If you load down a simple LC circuit with a doubler/quadrupler as opposed to 'one clean diode' then you lose more than you gain. And you take an additional hit on selectivity because the Q of the RF circuit becomes loaded excessively. Thats why the doubler/quadrupler schemes that look good on paper don't pass muster with xtal radio enthusiasts.

Detector impedance, headphone impedance are the meat and potatoes in "dx" crystal radio circuits. Its a house of mirrors, so to speak. Poor impedance match at the fones will kill RF selectivity, for example. Yes, you have to look at it that way.

Doesn't matter much with a Rocket Radio or a Cub Scout radio but if you get into the high end of xtal sets its very important.

-Bill

From -1199816725138836850
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news3
From: Bill M <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Headphone Impedance
Date: Tue, 21 Apr 2009 21:22:20 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 29
Message-ID: <gsm2hi0rb1@news3.newsguy.com>
References: <d8ef4a43-b0b4-44e1-bebe-aa2d8c6397eb@l9g2000vba.googlegroups.com>
<757ef230-3bbd-4de6-9126-2fa6f772f0d2@y6g2000prf.googlegroups.com>
NNTP-Posting-Host: p24d1bfbfff00000073b1290e905b03f4f4edcc2ec7af5129.newsdawg.com
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Xref: g2news1.google.com rec.radio.amateur.homebrew:2252

raypsi wrote:
> On Apr 20, 5:46 pm, David <DavidBR...@gmail.com> wrote:
>> After measuring the headphones with an LCR meter, is there a way to
>> take the inductance, capacitance and resistance to find the AC
>> impedance of the headphones at 1KHZ?
>
> Hay OM:
>
> I wondered what the impedance of a crystal headphone would be. I guess
> just the capacitance and inductance of the wire going to the crystal.
> And at 1000 cycles that would be way up there.
>
> I can bet for a certainty that 32 ohm headphones will be 32 ohms of
> impedance at 1000 cycles. Just think how much the inductance and
> capacitance will figure into the equation? Under 1% I bet at 1000
> cycles.
>
> 73 OM
>
> de n8zu

Impedance of xtal phones is often in the 10s of k. But their efficiency
stinks.

```
Regular old-time "2k"  phones ohm out pretty close to 2k in DC
resistance and their impedance is in that same ballpark.  They are all
over the place nowadays .  May be fine on a regen set but suck horribly
on a crystal set.



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X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!f19g2000yqh.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: nixie driver
Date: Tue, 21 Apr 2009 20:40:01 -0700 (PDT)
Organization: http://groups.google.com
Lines: 53
Message-ID: <576cfe9d-fd3b-42ea-992d-9f3b95d166be@f19g2000yqh.googlegroups.com>
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
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NNTP-Posting-Date: Wed, 22 Apr 2009 03:40:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f19g2000yqh.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2550

On Apr 21, 6:07=A0pm, Joerg <notthisjoerg...@removethispacbell.net>
wrote:
> Bruce W. Ellis wrote:
> > On Wed, 8 Apr 2009 06:51:53 -0700 (PDT), Tim Shoppa
> > <sho...@trailing-edge.com> wrote:
>
> >> On Apr 3, 10:34 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> >>> I have a Systron Donner frequency counter that uses Nixie tubes. The
> >>> counter works fine but I am forever replacing the Nixie drivers
> >>> 74141s. I started to use it this AM an one was out. Is there a
> >>> replacement for the 74141, I couldnt find one, or is there a circuit =
I
> >>> could build on a DIP header to replace them. I could probably design
> >>> one but I wanted something tried an tested as I dont want to put my
```

> >>> counter board at more risk than I have to.
> >> Domestic 74141's are hard to find these days but on E-bay the Russian
> >> equivalent is very common.
>
> >> Yes, you could build just about anything with a one-of-ten decoder and
> >> some current-sink drivers to do the same.
>
> >> If the goal isn't nixie tubes but is a working frequency counter, you
> >> could probably put the counter up on E-bay for somebody who wants
> >> nixie tubes, and use the money to buy several superior frequency
> >> counters.
>
> >> Tim N3QE
>
> > Just remember to cut down on the voltage and current to the nixie
> > tubes and the 141s will last forever...
>
> One risk with such chips is that a nixie element occasionally reaches
> strike voltage while the respective driver output is off. Or doesn't
> extinguish right away when turned off. Then the dissipation in the 55V
> zeners inside might be too much to stomach for the little chip.
> According to the datasheet those things aren't really high voltage switch=
es.
>
> --
> 73, Joerg- Hide quoted text -
>
> - Show quoted text -

The current limiting resistor going to the tubes is 39K. Im going to
increase that to 47K and see what happens. After putting in new chips
it may be months to a year before I see another problem with it. I
wish I knew what I was up against if I had a schematic, knew what the
voltages were supposed to be it would help greatly. I bought one a
surplus from where I work and from what I heard of its history it had
ths problem for along time. The second one I got ws at a hamfest and
it too seems to have the same problem. Could it be bad nixie tubes?

Jimmie

From -4995863536297879370
X-Google-Thread: fc2a5,d6daf85b243020bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!y10g2000prc.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: XTAL Radio Receiver Circuits
Date: Tue, 21 Apr 2009 20:56:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 15

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Message-ID: <a28cb646-5ebd-4d82-92e8-1595a364fab8@y10g2000prc.googlegroups.com>
References: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
     <eaidnT16IoW_aHHUnZ2dnUVZ_v6dnZ2d@web-ster.com> <75703417-7862-44fb-
b43f-11e09f7e9e17@w35g2000prg.googlegroups.com>
     <gsm23e0qvc@news3.newsguy.com>
NNTP-Posting-Host: 76.226.138.86
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 22 Apr 2009 03:56:50 +0000 (UTC)
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     Gecko/2009040821 Firefox/3.0.9 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2254

On Apr 21, 11:14=A0pm, Bill M <radioex...@geeemail.com> wrote:


>. =A0Phones don't respond to watts.


> -Bill

Hey OM:

Thanks for the sardonic epiphany.

73 OM

de n8zu


From -4262304334326599162
X-Google-Thread: fc2a5,90a989b032f13f4c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!j18g2000yql.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: nixie driver
Date: Tue, 21 Apr 2009 21:02:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 74
Message-ID: <162a4625-cefe-4929-9edc-75370829209f@j18g2000yql.googlegroups.com>
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
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<zsrHl.28160$YU2.24589@nlpi066.nbdc.sbc.com>
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Content-Type: text/plain; charset=ISO-8859-1
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 22 Apr 2009 04:02:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j18g2000yql.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2255

On Apr 21, 11:40=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> On Apr 21, 6:07=A0pm, Joerg <notthisjoerg...@removethispacbell.net>
> wrote:
>
>
>
>
>
> > Bruce W. Ellis wrote:
> > > On Wed, 8 Apr 2009 06:51:53 -0700 (PDT), Tim Shoppa
> > > <sho...@trailing-edge.com> wrote:
>
> > >> On Apr 3, 10:34 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> > >>> I have a Systron Donner frequency counter that uses Nixie tubes. Th=
e
> > >>> counter works fine but I am forever replacing the Nixie drivers
> > >>> 74141s. I started to use it this AM an one was out. Is there a
> > >>> replacement for the 74141, I couldnt find one, or is there a circui=
t I
> > >>> could build on a DIP header to replace them. I could probably desig=
n
> > >>> one but I wanted something tried an tested as I dont want to put my
> > >>> counter board at more risk than I have to.
> > >> Domestic 74141's are hard to find these days but on E-bay the Russia=
n
> > >> equivalent is very common.
>
> > >> Yes, you could build just about anything with a one-of-ten decoder a=
nd
> > >> some current-sink drivers to do the same.
>
> > >> If the goal isn't nixie tubes but is a working frequency counter, yo=
u
> > >> could probably put the counter up on E-bay for somebody who wants
> > >> nixie tubes, and use the money to buy several superior frequency
> > >> counters.
```

>
> > >> Tim N3QE
>
> > > Just remember to cut down on the voltage and current to the nixie
> > > tubes and the 141s will last forever...
>
> > One risk with such chips is that a nixie element occasionally reaches
> > strike voltage while the respective driver output is off. Or doesn't
> > extinguish right away when turned off. Then the dissipation in the 55V
> > zeners inside might be too much to stomach for the little chip.
> > According to the datasheet those things aren't really high voltage swit=
ches.
>
> > --
> > 73, Joerg- Hide quoted text -
>
> > - Show quoted text -
>
> The current limiting resistor going to the tubes is 39K. Im going to
> increase that to 47K and see what happens. After putting in new chips
> it may be months to a year before I see another problem with it. I
> wish I knew what I was up against if I had a schematic, knew what the
> voltages were supposed to be it would help greatly. I bought one a
> surplus from where I work and from what I heard of its history it had
> ths problem for along time. The second one I got ws at a hamfest and
> it too seems to have the same problem. Could it be bad nixie tubes?
>
> Jimmie- Hide quoted text -
>
> - Show quoted text -

nixies are a burroughs 57505s and some other not readable type.
Ican make out the word "electronics" and the number "7341"
Interestingly these are the ones I dont have a problem with. Maybe I
have found my problem. Now to find a solution. Where can I find these
nxies?

Jimmie

From 6264132027820243002
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe17.iad.POSTED!7564ea0f!not-for-mail
From: Archimedes' Lever <OneBigLever@InfiniteSeries.Org>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Tim Shoppa the Shithead Troll
Organization: Archimedes'Palimpsest
Reply-To: My Assistant: Zhang Heng

```
Message-ID: <ae9tu45bl55i5d62r46842f3pudc3apktu@4ax.com>
References: <q2kpu4dsupiopinf8qjuoi9o2thqgvr0mr@4ax.com> <9f7d92d4-041d-4f08-
bfdd-01951381986c@k2g2000yql.googlegroups.com> <661f780c-
eef9-4d70-92e1-628f97277533@k19g2000prh.googlegroups.com>
<7552fvF15d317U1@mid.individual.net> <a716def6-9cd2-48a8-b202-
e408e7900ce1@k38g2000yqh.googlegroups.com> <755tmqF16oherU1@mid.individual.net>
<ff1ed7d5-0843-4747-9ff8-79cf65f62664@n8g2000vbb.googlegroups.com>
<75785fF16246sU1@mid.individual.net>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 10
NNTP-Posting-Host: 72.197.142.200
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe17.iad 1240376832 72.197.142.200 (Wed, 22 Apr 2009 05:07:12 UTC)
NNTP-Posting-Date: Wed, 22 Apr 2009 05:07:12 UTC
Date: Tue, 21 Apr 2009 22:07:03 -0700
Xref: g2news1.google.com sci.electronics.design:78103
rec.radio.amateur.homebrew:2256
```

On Wed, 22 Apr 2009 10:54:07 +1000, "Phil Allison"
<philallison@tpg.com.au> wrote:

>"Tim Shoppa the Shithead Troll "
>

NO, PHIL... You dumbfuck!

YOU are the SHITHEAD and YOU are the STUPID fucking TROLL!

```
From -8270171470201938275
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
indigo.octanews.net!news-out.octanews.net!mauve.octanews.net!news.astraweb.com!
border5.newsrouter.astraweb.com!not-for-mail
From: Bill Palmer <Biiil@none.not>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Wed, 22 Apr 2009 05:32:36 -0400
Message-ID: <i0ptu4l5intmj0grbakbhhhiihl06aei1c@4ax.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com> <64d06f97-d4a2-4917-a0cc-
d79f91d3a428@m19g2000yqk.googlegroups.com>
<q2kpu4dsupiopinf8qjuoi9o2thqgvr0mr@4ax.com> <9f7d92d4-041d-4f08-
bfdd-01951381986c@k2g2000yql.googlegroups.com> <661f780c-
eef9-4d70-92e1-628f97277533@k19g2000prh.googlegroups.com>
<7552fvF15d317U1@mid.individual.net> <s6u0c6-b4n1.ln1@mikea.ath.cx>
```

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X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 8
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 7357d95b.news.astraweb.com
X-Trace: DXC=;aj?2E9fBVO7dZd0V0aUXKL?0kYOcDh@J`:9U0LHX=]A4?
AkOE<0P<NPeOS=4QdOe@d<9Jem4[7?L9Y>8ig7O82D
Xref: g2news1.google.com sci.electronics.design:78151
rec.radio.amateur.homebrew:2257

On Tue, 21 Apr 2009 08:27:24 -0500 mikea <mikea@mikea.ath.cx> wrote in
Message id: <s6u0c6-b4n1.ln1@mikea.ath.cx>:

[...]

>Killfile, Phil. Phil, killfile.

What took you so long?



From 8737410631531535679
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!f19g2000yqo.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Tim Shoppa the Autistic Troll
Date: Wed, 22 Apr 2009 05:24:57 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <3aa27212-5ae2-4aaa-b7c4-c165bb761532@f19g2000yqo.googlegroups.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
     <cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com> <64d06f97-d4a2-4917-a0cc-
d79f91d3a428@m19g2000yqk.googlegroups.com>
     <q2kpu4dsupiopinf8qjuoi9o2thqgvr0mr@4ax.com> <9f7d92d4-041d-4f08-
bfdd-01951381986c@k2g2000yql.googlegroups.com>
     <661f780c-eef9-4d70-92e1-628f97277533@k19g2000prh.googlegroups.com>
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bf58-9cd66e16fbe0@x3g2000yqa.googlegroups.com>
     <757c6tF16tn21U1@mid.individual.net>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
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X-Trace: posting.google.com 1240403097 12972 127.0.0.1 (22 Apr 2009 12:24:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 22 Apr 2009 12:24:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f19g2000yqo.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB5;
     .NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:92875
rec.radio.amateur.homebrew:2555

On Apr 21, 10:03=A0pm, "Phil Allison" <philalli...@tpg.com.au> wrote:
> ** Only indicates an autistic lack of comprehension.
> ** You are autistically obsessed with imaginary flaws in the writing.
> **=A0 Mostly likely because you have gone quite insane.
> ** What a revolting, pompous narcissistic pig you are =A0- =A0Tim.
> ** =A0I was much too kind earlier ....
> ** Mere narcissism has just turned into full blown, autistic ego-mania.
> ** =A0Shoppa's self delusions have made him a legend in his own mind.
> ** =A0When all he really has become is " history ".

You forgot to add, Phil, that my mother was a hamster and my father
smelt of eldeberries.

Tim.



From -6145241124592571355
X-Google-Thread: fc2a5,90a989b032f13f4c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!newshub.sdsu.edu!
flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!nlpi068.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: nixie driver
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
     <01029c48-2d92-46cf-ac3f-cdc0ded782aa@f14g2000vbf.googlegroups.com>
     <35fvt41qqila7fmq29hdst7b4baj9kknqm@4ax.com>
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fd3b-42ea-992d-9f3b95d166be@f19g2000yqh.googlegroups.com>
In-Reply-To: <576cfe9d-fd3b-42ea-992d-9f3b95d166be@f19g2000yqh.googlegroups.com>
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Lines: 61
Message-ID: <CjEHl.27604$yr3.1657@nlpi068.nbdc.sbc.com>
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08:45:22 EDT)
NNTP-Posting-Date: Wed, 22 Apr 2009 08:45:22 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
Q[R_@SNDZJWWSUD[MBIDM^P@VZ\LPCXLLBWLOOAFQATJUZ]CDVW[AKK[J\]^HVKHG^EWZHBLO^[\NH_AZF
WGN^\DHNVMX_DHHX[FSQKBOTS@@BP^]C@RHS_AGDDC[AJM_T[GZNRNZAY]GNCPBDYKOLK^_CZFWPGHZIXW
@C[AFKBBQS@E@DAZ]VDFUNTQQ]FN
Date: Wed, 22 Apr 2009 05:45:17 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:2259

JIMMIE wrote:
> On Apr 21, 6:07 pm, Joerg <notthisjoerg...@removethispacbell.net>
> wrote:
>> Bruce W. Ellis wrote:
>>> On Wed, 8 Apr 2009 06:51:53 -0700 (PDT), Tim Shoppa
>>> <sho...@trailing-edge.com> wrote:
>>>> On Apr 3, 10:34 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>>>>> I have a Systron Donner frequency counter that uses Nixie tubes. The
>>>>> counter works fine but I am forever replacing the Nixie drivers
>>>>> 74141s. I started to use it this AM an one was out. Is there a
>>>>> replacement for the 74141, I couldnt find one, or is there a circuit I
>>>>> could build on a DIP header to replace them. I could probably design
>>>>> one but I wanted something tried an tested as I dont want to put my
>>>>> counter board at more risk than I have to.
>>>> Domestic 74141's are hard to find these days but on E-bay the Russian
>>>> equivalent is very common.
>>>> Yes, you could build just about anything with a one-of-ten decoder and
>>>> some current-sink drivers to do the same.
>>>> If the goal isn't nixie tubes but is a working frequency counter, you
>>>> could probably put the counter up on E-bay for somebody who wants
>>>> nixie tubes, and use the money to buy several superior frequency
>>>> counters.
>>>> Tim N3QE
>>> Just remember to cut down on the voltage and current to the nixie
>>> tubes and the 141s will last forever...
>> One risk with such chips is that a nixie element occasionally reaches
>> strike voltage while the respective driver output is off. Or doesn't
>> extinguish right away when turned off. Then the dissipation in the 55V
>> zeners inside might be too much to stomach for the little chip.
>> According to the datasheet those things aren't really high voltage switches.
>>
>> --
>> 73, Joerg- Hide quoted text -
>>
>> - Show quoted text -
>
> The current limiting resistor going to the tubes is 39K. Im going to
> increase that to 47K and see what happens. After putting in new chips
> it may be months to a year before I see another problem with it. I
> wish I knew what I was up against if I had a schematic, knew what the
> voltages were supposed to be it would help greatly. I bought one a
> surplus from where I work and from what I heard of its history it had
> ths problem for along time. The second one I got ws at a hamfest and
```

> it too seems to have the same problem. Could it be bad nixie tubes?
>

Unlikely, when nixies go bad they become dim, then at some point elements fail to strike at all. It's just that the 210V you mentioned in another post sounds unusually high. Leaves a whopping 150V between that and the 55-60V zener in the output of the 74141. My nixies would light at that voltage. So if you'd have one that occasionally lit or stayed lit and drew, say, 3ma then that results in 150mW dissipation in a very tiny area of the chip ... phsssst ... phut ... gone. When pulling down to near GND the chips can sink that current forever but not if 60V are dropped.

But all this is speculation because we both don't know what kind of nixies are in there and what the voltage was designed to be.

--
73, Joerg

From 8757451827314090337
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!newsfeed.freenet.de!bolzen.all.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: "Phil Allison" <philallison@tpg.com.au>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Tim Shoppa= Autistic Troll
Date: Wed, 22 Apr 2009 23:24:37 +1000
Lines: 60
Message-ID: <758k4lF1718gbU1@mid.individual.net>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com> <cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com> <64d06f97-d4a2-4917-a0cc-d79f91d3a428@m19g2000yqk.googlegroups.com> <q2kpu4dsupiopinf8qjuoi9o2thqgvr0mr@4ax.com> <9f7d92d4-041d-4f08-bfdd-01951381986c@k2g2000yql.googlegroups.com> <661f780c-eef9-4d70-92e1-628f97277533@k19g2000prh.googlegroups.com> <7552fvF15d317U1@mid.individual.net> <a716def6-9cd2-48a8-b202-e408e7900ce1@k38g2000yqh.googlegroups.com> <755tmqF16oherU1@mid.individual.net> <ff1ed7d5-0843-4747-9ff8-79cf65f62664@n8g2000vbb.googlegroups.com> <75785fF16246sU1@mid.individual.net> <1f7e0374-bccd-4a23-bf58-9cd66e16fbe0@x3g2000yqa.googlegroups.com> <757c6tF16tn21U1@mid.individual.net> <3aa27212-5ae2-4aaa-b7c4-c165bb761532@f19g2000yqo.googlegroups.com>
X-Trace: individual.net gAORv2+k0hZuVnDCqbg4tQcXYGKotu/SbPv4K/s3+kXlqVb/95
Cancel-Lock: sha1:79ymxRG+I+r5MxhvzhNMkQ6/mew=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350

X-RFC2646: Format=Flowed; Original
Xref: g2news1.google.com sci.electronics.design:78175
rec.radio.amateur.homebrew:2260

"Tim Shoppa = Autistic Troll "

The best Wikipedia articles are often filled with good checkable references, but other times it sounds like they were written in a foreign language and translated into English

** Only indicates an autistic lack of comprehension.

Just because a Wikipedia entry isn't well-written or sounds awkward

** You are autistically obsessed with imaginary flaws in the writing.

Most likely because you have gone quite insane.

Somewhere there's a bunch of people who spend their time correcting and improving Wikipedia entries, and I think overall they are doing a good job, but that doesn't mean the result is always devoted to my interests.

** What a revolting, pompous narcissistic pig you are - Tim.

Just like anything else in this world, it's got workers and it's got managers and they aren't always devoting their attention to the little corners of arcania that I live in.

** I was much too kind earlier ....

It's not that the Encyclopedia Britannica is perfect either. I can open it up to the very few subjects that I happen to be expert on and find over-simplifications and a lack of cites to what I consider to be the best references.

** Mere narcissism has just turned into full blown, autistic ego-mania.

Of course in academia I got real used to opening a journal and instead of reading the articles, to go straight to the references and see if they are quoting one of my articles :-).

** Shoppa's self delusions have made him a legend in his own mind.

When all he really has become is " history ".

.....   Phil

```
From 3891400105279318796
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
gnilink.net!nx02.iad01.newshosting.com!newshosting.com!198.186.194.249.MISMATCH!
news-out.readnews.com!transit3.readnews.com!border2.nntp.dca.giganews.com!
nntp.giganews.com!backlog2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-
mail
NNTP-Posting-Date: Wed, 22 Apr 2009 09:01:37 -0500
From: John O'Flaherty <quiasmox@yeeha.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Tim Shoppa the Autistic Troll
Date: Wed, 22 Apr 2009 09:01:33 -0500
Message-ID: <5p8uu45ben95hk2om300nevvc7g5oucqhp@4ax.com>
References: <7552fvF15d317U1@mid.individual.net> <a716def6-9cd2-48a8-b202-
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Content-Transfer-Encoding: 8bit
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X-Trace: sv3-
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X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com sci.electronics.design:92894
```

```
rec.radio.amateur.homebrew:2558

On Wed, 22 Apr 2009 05:24:57 -0700 (PDT), Tim Shoppa
<shoppa@trailing-edge.com> wrote:

>On Apr 21, 10:03�pm, "Phil Allison" <philalli...@tpg.com.au> wrote:
>> ** Only indicates an autistic lack of comprehension.
>> ** You are autistically obsessed with imaginary flaws in the writing.
>> **� Mostly likely because you have gone quite insane.
>> ** What a revolting, pompous narcissistic pig you are �- �Tim.
>> ** �I was much too kind earlier ....
>> ** Mere narcissism has just turned into full blown, autistic ego-mania.
>> ** �Shoppa's self delusions have made him a legend in his own mind.
>> ** �When all he really has become is " history ".
>
>You forgot to add, Phil, that my mother was a hamster and my father
>smelt of eldeberries.

Even when he was young?
--
John



From 1426157590162306663
X-Google-Thread: fc2a5,90a989b032f13f4c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!newshub.sdsu.edu!
flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!nlpi065.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: nixie driver
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
     <01029c48-2d92-46cf-ac3f-cdc0ded782aa@f14g2000vbf.googlegroups.com>
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<zsrHl.28160$YU2.24589@nlpi066.nbdc.sbc.com>   <576cfe9d-
fd3b-42ea-992d-9f3b95d166be@f19g2000yqh.googlegroups.com> <162a4625-
cefe-4929-9edc-75370829209f@j18g2000yql.googlegroups.com>
In-Reply-To: <162a4625-cefe-4929-9edc-75370829209f@j18g2000yql.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 76
Message-ID: <y3JHl.25208$c45.24575@nlpi065.nbdc.sbc.com>
NNTP-Posting-Host: 75.26.180.1
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi065.nbdc.sbc.com 1240423774 ST000 75.26.180.1 (Wed, 22 Apr 2009
14:09:34 EDT)
NNTP-Posting-Date: Wed, 22 Apr 2009 14:09:34 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
```

```
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\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Wed, 22 Apr 2009 11:09:29 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:2262

JIMMIE wrote:
> On Apr 21, 11:40 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>> On Apr 21, 6:07 pm, Joerg <notthisjoerg...@removethispacbell.net>
>> wrote:
>>
>>
>>
>>
>>
>>> Bruce W. Ellis wrote:
>>>> On Wed, 8 Apr 2009 06:51:53 -0700 (PDT), Tim Shoppa
>>>> <sho...@trailing-edge.com> wrote:
>>>>> On Apr 3, 10:34 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>>>>>> I have a Systron Donner frequency counter that uses Nixie tubes. The
>>>>>> counter works fine but I am forever replacing the Nixie drivers
>>>>>> 74141s. I started to use it this AM an one was out. Is there a
>>>>>> replacement for the 74141, I couldnt find one, or is there a circuit I
>>>>>> could build on a DIP header to replace them. I could probably design
>>>>>> one but I wanted something tried an tested as I dont want to put my
>>>>>> counter board at more risk than I have to.
>>>>> Domestic 74141's are hard to find these days but on E-bay the Russian
>>>>> equivalent is very common.
>>>>> Yes, you could build just about anything with a one-of-ten decoder and
>>>>> some current-sink drivers to do the same.
>>>>> If the goal isn't nixie tubes but is a working frequency counter, you
>>>>> could probably put the counter up on E-bay for somebody who wants
>>>>> nixie tubes, and use the money to buy several superior frequency
>>>>> counters.
>>>>> Tim N3QE
>>>> Just remember to cut down on the voltage and current to the nixie
>>>> tubes and the 141s will last forever...
>>> One risk with such chips is that a nixie element occasionally reaches
>>> strike voltage while the respective driver output is off. Or doesn't
>>> extinguish right away when turned off. Then the dissipation in the 55V
>>> zeners inside might be too much to stomach for the little chip.
>>> According to the datasheet those things aren't really high voltage switches.
>>> --
>>> 73, Joerg- Hide quoted text -
>>> - Show quoted text -
>> The current limiting resistor going to the tubes is 39K. Im going to
>> increase that to 47K and see what happens. After putting in new chips
>> it may be months to a year before I see another problem with it. I
>> wish I knew what I was up against if I had a schematic, knew what the
>> voltages were supposed to be it would help greatly. I bought one a
>> surplus from where I work and from what I heard of its history it had
>> ths problem for along time. The second one I got ws at a hamfest and
>> it too seems to have the same problem. Could it be bad nixie tubes?
```

>>
>> Jimmie- Hide quoted text -
>>
>> - Show quoted text -
>
> nixies are a burroughs 57505s and some other not readable type.
> Ican make out the word "electronics" and the number "7341"
> Interestingly these are the ones I dont have a problem with. Maybe I
> have found my problem. Now to find a solution. Where can I find these
> nxies?
>

The Burroughs cause problems? And someone replaced a few with other types? Getting a certain brand and type nixie will be tough. Most nixies offered these days seem to be from Russian sources. There is also a guy in NL who specializes in nixie retro clocks, he might know more. If you really can't find any, there could be a somewhat scientific solution:

Pop one each out of there and hang them onto a voltage source, with series resistor. Crank it up from zero, see where it lights, then turn it down and see where it extinguishes. Try at a somewhat elevated temperature as well. Then you'd have to get the supply voltage inside the counter to the sweet spot where it's nearly guaranteed that the 74141 will never sit with an output high (meaning 55-60V) and the segment still lit. This could be done by dropping the ones with lower striking voltage with a zener plus small bleeder.

--
73, Joerg

From 3834005201670186692
X-Google-Thread: fc2a5,d814ddbd924d1874
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-04.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <d8ef4a43-b0b4-44e1-bebe-aa2d8c6397eb@l9g2000vba.googlegroups.com>
<757ef230-3bbd-4de6-9126-2fa6f772f0d2@y6g2000prf.googlegroups.com>
<gsm2hi0rb1@news3.newsguy.com>
Subject: Re: Headphone Impedance
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <A7JHl.130838$BR.72251@en-nntp-04.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/

X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Wed, 22 Apr 2009 11:13:46 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2560

"Bill M" <radioexray@geeemail.com> wrote in message
news:gsm2hi0rb1@news3.newsguy.com...

> Regular old-time "2k" phones ohm out pretty close to 2k in DC resistance
> and their impedance is in that same ballpark. They are all over the place
> nowadays . May be fine on a regen set but suck horribly on a crystal set.

Hmm... so a crystal radio would effectively perform better using a 1k<-->8 ohm audio transfer than just using the "traditional" crystal earphones?

Are crystal earphones called that because they're used with crystal radios, or because they really do have some sort of crystal in them (seems unlikely)?

---Joel

From 5740078986863232152
X-Google-Thread: fc2a5,d814ddbd924d1874
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!news.netcologne.de!newsfeed-fusi2.netcologne.de!newsfeed.straub-nv.de!news.albasani.net!not-for-mail
From: M0WYM <Sansspam@peartreegreen.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Headphone Impedance
Date: Wed, 22 Apr 2009 21:24:43 +0100
Organization: albasani.net
Lines: 29
Message-ID: <gsnueb$v5l$1@news.albasani.net>
References: <d8ef4a43-b0b4-44e1-bebe-aa2d8c6397eb@l9g2000vba.googlegroups.com> <757ef230-3bbd-4de6-9126-2fa6f772f0d2@y6g2000prf.googlegroups.com> <gsm2hi0rb1@news3.newsguy.com> <A7JHl.130838$BR.72251@en-nntp-04.dc1.easynews.com>
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Content-Transfer-Encoding: 7bit
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X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Wed, 22 Apr 2009 20:24:43 +0000 (UTC)
X-User-ID: mhNzryjTDoPDMfT2f/L8YlW/F0vOtmj0y323KlG+JQgK1ExdCNK82r8dU9ZniKjKYK9auoaIdAXdepWIJL1OjQ==
In-Reply-To: <A7JHl.130838$BR.72251@en-nntp-04.dc1.easynews.com>
Cancel-Lock: sha1:HydE21tKqLLKuC8mm47IrB2IO+g=
User-Agent: Thunderbird 2.0.0.21 (X11/20090318)
X-NNTP-Posting-Host: jd+GZZQCygtFnGymTzmPYLn5ktdyX59IirpJbPVERII=

Xref: g2news2.google.com rec.radio.amateur.homebrew:2561

Joel Koltner wrote:

> Are crystal earphones called that because they're used with crystal radios, or
> because they really do have some sort of crystal in them (seems unlikely)?
>
> ---Joel
>
>

Not at all unlikely :-) Crystal earphones are piezoelectric devices
- the small electrical AF signal produces a small mechanical
movement. These devices have very high impedances so are ideal for
extremely low power circuits such as crystal sets.
See also crystal cartridges for playing records, these were some
what chunkier and would produce a lot of output and a typical cheap
record player might consist of a crystal cartridge (pickup) driving
the grid of a tridode / pentode arrangement (EL86 I think).

Charlie.

--
M0WYM
www.radiowymsey.org

Sign today!
http://petitions.pm.gov.uk/SaveShortwave/

From 2117230904388640678
X-Google-Thread: fc2a5,d814ddbd924d1874
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 22 Apr 2009 16:34:26 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <d8ef4a43-b0b4-44e1-bebe-aa2d8c6397eb@l9g2000vba.googlegroups.com>
<757ef230-3bbd-4de6-9126-2fa6f772f0d2@y6g2000prf.googlegroups.com>
<gsm2hi0rb1@news3.newsguy.com> <A7JHl.130838$BR.72251@en-nntp-04.dc1.easynews.com>
Subject: Re: Headphone Impedance
Date: Wed, 22 Apr 2009 17:35:24 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response

Message-ID: <7IadnaN19Lv_EHLUnZ2dnUVZ_judnZ2d@earthlink.com>
Lines: 20
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1967
Xref: g2news2.google.com rec.radio.amateur.homebrew:2562

"Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in message news:A7JHl.130838$BR.72251@en-nntp-04.dc1.easynews.com...

> Are crystal earphones called that because they're used with crystal radios, or because they really do have some sort of crystal in them (seems unlikely)?
>
> ---Joel
>
>

The crystal earphone is called that because it does contain a crystal, similar to some microphones.

The crystal in a crystal radio is the diode that does the conversion from RF to AF. It started off years ago as a real crystal. A semiconductive mineral crystal, usually lead sulfide (galena) or cadmium sulfide.

From -3298420947893187603
X-Google-Thread: fc2a5,d814ddbd924d1874
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe09.iad.POSTED!7564ea0f!not-for-mail
From: "Unca Pete" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <d8ef4a43-b0b4-44e1-bebe-aa2d8c6397eb@l9g2000vba.googlegroups.com> <757ef230-3bbd-4de6-9126-2fa6f772f0d2@y6g2000prf.googlegroups.com> <gsm2hi0rb1@news3.newsguy.com> <A7JHl.130838$BR.72251@en-nntp-04.dc1.easynews.com> <7IadnaN19Lv_EHLUnZ2dnUVZ_judnZ2d@earthlink.com>
Subject: Re: Headphone Impedance
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal

X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
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Message-ID: <okPHl.69647$GU6.47674@newsfe09.iad>
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X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe09.iad 1240449428 68.229.77.6 (Thu, 23 Apr 2009 01:17:08 UTC)
NNTP-Posting-Date: Thu, 23 Apr 2009 01:17:08 UTC
Organization: Cox
Date: Wed, 22 Apr 2009 21:16:59 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:2267

Ben Tongue's website offers exellent engineering analysis
and practical information on crystal set design:

http://www.bentongue.com/xtalset/xtalset.html

For good practical discussions try TheRadioBoard.com.
Lot's of xtal set experimenters over there to answer
questions...

Pete k1zjh

From 6481572289550835155
X-Google-Thread: fc2a5,d814ddbd924d1874
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe09.iad.POSTED!7564ea0f!not-for-mail
From: "Unca Pete" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <d8ef4a43-b0b4-44e1-bebe-aa2d8c6397eb@l9g2000vba.googlegroups.com>
<757ef230-3bbd-4de6-9126-2fa6f772f0d2@y6g2000prf.googlegroups.com>
<gsm2hi0rb1@news3.newsguy.com> <A7JHl.130838$BR.72251@en-nntp-04.dc1.easynews.com>
<7IadnaN19Lv_EHLUnZ2dnUVZ_judnZ2d@earthlink.com>
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Lines: 11
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <okPHl.69646$GU6.42377@newsfe09.iad>
NNTP-Posting-Host: 68.229.77.6
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X-Trace: newsfe09.iad 1240449428 68.229.77.6 (Thu, 23 Apr 2009 01:17:08 UTC)
NNTP-Posting-Date: Thu, 23 Apr 2009 01:17:08 UTC
Organization: Cox

Date: Wed, 22 Apr 2009 21:13:56 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:2266

The impedance of the headphone is pretty much meaningless.
The sensitivity is critical. Impedance matching can be done with
high quality audio interstage transformers. The most popular
headsets are made from sound powered Deck-Talkers used on
WWII era military ships. They have balanced armatures and
are extremely sensitive, and very low impedance.

Pete K1ZJH

From -5908634410115300178
X-Google-Thread: fc2a5,d6daf85b243020bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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media.com!newsfe09.iad.POSTED!7564ea0f!not-for-mail
From: "Unca Pete" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
<eaidnT16IoW_aHHUnZ2dnUVZ_v6dnZ2d@web-ster.com> <75703417-7862-44fb-
b43f-11e09f7e9e17@w35g2000prg.googlegroups.com> <gsm23e0qvc@news3.newsguy.com>
<a28cb646-5ebd-4d82-92e8-1595a364fab8@y10g2000prc.googlegroups.com>
Subject: Re: XTAL Radio Receiver Circuits
Lines: 25
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <VmPHl.69696$GU6.51002@newsfe09.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe09.iad 1240449589 68.229.77.6 (Thu, 23 Apr 2009 01:19:49 UTC)
NNTP-Posting-Date: Thu, 23 Apr 2009 01:19:49 UTC
Organization: Cox
Date: Wed, 22 Apr 2009 21:18:51 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:2268

"raypsi" <RBorowiak@gmail.com> wrote in message
news:a28cb646-5ebd-4d82-92e8-1595a364fab8@y10g2000prc.googlegroups.com...
On Apr 21, 11:14 pm, Bill M <radioex...@geeemail.com> wrote:

>. Phones don't respond to watts.

> -Bill

Hey OM:

Thanks for the sardonic epiphany.

73 OM

For an education:

http://www.bentongue.com/xtalset/xtalset.html

de n8zu

```
From 2925527633349430249
X-Google-Thread: fc2a5,90a989b032f13f4c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!g19g2000yql.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: nixie driver
Date: Wed, 22 Apr 2009 20:41:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 95
Message-ID: <3ba43081-5845-4317-9b22-40a4a94c8d00@g19g2000yql.googlegroups.com>
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
     <01029c48-2d92-46cf-ac3f-cdc0ded782aa@f14g2000vbf.googlegroups.com>
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NNTP-Posting-Date: Thu, 23 Apr 2009 03:41:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g19g2000yql.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2269
```

```
On Apr 22, 2:09=A0pm, Joerg <notthisjoerg...@removethispacbell.net>
wrote:
> JIMMIE wrote:
> > On Apr 21, 11:40 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> >> On Apr 21, 6:07 pm, Joerg <notthisjoerg...@removethispacbell.net>
> >> wrote:
>
> >>> Bruce W. Ellis wrote:
> >>>> On Wed, 8 Apr 2009 06:51:53 -0700 (PDT), Tim Shoppa
> >>>> <sho...@trailing-edge.com> wrote:
> >>>>> On Apr 3, 10:34 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> >>>>>> I have a Systron Donner frequency counter that uses Nixie tubes. T=
he
> >>>>>> counter works fine but I am forever replacing the Nixie drivers
> >>>>>> 74141s. I started to use it this AM an one was out. Is there a
> >>>>>> replacement for the 74141, I couldnt find one, or is there a circu=
it I
> >>>>>> could build on a DIP header to replace them. I could probably desi=
gn
> >>>>>> one but I wanted something tried an tested as I dont want to put m=
y
> >>>>>> counter board at more risk than I have to.
> >>>>> Domestic 74141's are hard to find these days but on E-bay the Russi=
an
> >>>>> equivalent is very common.
> >>>>> Yes, you could build just about anything with a one-of-ten decoder =
and
> >>>>> some current-sink drivers to do the same.
> >>>>> If the goal isn't nixie tubes but is a working frequency counter, y=
ou
> >>>>> could probably put the counter up on E-bay for somebody who wants
> >>>>> nixie tubes, and use the money to buy several superior frequency
> >>>>> counters.
> >>>>> Tim N3QE
> >>>> Just remember to cut down on the voltage and current to the nixie
> >>>> tubes and the 141s will last forever...
> >>> One risk with such chips is that a nixie element occasionally reaches
> >>> strike voltage while the respective driver output is off. Or doesn't
> >>> extinguish right away when turned off. Then the dissipation in the 55=
V
> >>> zeners inside might be too much to stomach for the little chip.
> >>> According to the datasheet those things aren't really high voltage sw=
itches.
> >>> --
> >>> 73, Joerg- Hide quoted text -
> >>> - Show quoted text -
> >> The current limiting resistor going to the tubes is 39K. Im going to
> >> increase that to 47K and see what happens. After putting in new chips
> >> it may be months to a year before I see another problem with it. I
> >> wish I knew what I was up against if I had a schematic, knew what the
> >> voltages were supposed to be it would help greatly. I bought one a
> >> surplus from where I work and from what I heard of its history it had
```

> >> ths problem for along time. The second one I got ws at a hamfest and
> >> it too seems to have the same problem. Could it be bad nixie tubes?
>
> >> Jimmie- Hide quoted text -
>
> >> - Show quoted text -
>
> > nixies are a burroughs 57505s and some other not readable type.
> > Ican make out the word "electronics" and the number "7341"
> > Interestingly these are the ones I dont have a problem with. Maybe I
> > have found my problem. Now to find a solution. Where can I find these
> > nxies?
>
> The Burroughs cause problems? And someone replaced a few with other
> types? Getting a certain brand and type nixie will be tough. Most nixies
> offered these days seem to be from Russian sources. There is also a guy
> in NL who specializes in nixie retro clocks, he might know more. If you
> really can't find any, there could be a somewhat scientific solution:
>
> Pop one each out of there and hang them onto a voltage source, with
> series resistor. Crank it up from zero, see where it lights, then turn
> it down and see where it extinguishes. Try at a somewhat elevated
> temperature as well. Then you'd have to get the supply voltage inside
> the counter to the sweet spot where it's nearly guaranteed that the
> 74141 will never sit with an output high (meaning 55-60V) and the
> segment still lit. This could be done by dropping the ones with lower
> striking voltage with a zener plus small bleeder.
>
> --
> 73, Joerg- Hide quoted text -
>
> - Show quoted text -

Thanks Joerg

Im not sure if the 210 volts is the design voltage or if something is
wrong with the power supply. I added a zener to get it down to 180. At
180 I think the characters are a little less hazy looking and only
slightly dimmer. I guess I will just have to see how it goes.for now
and keep my eye out for a maintenance manual.

Jimmie

From 7266991722280376588
X-Google-Thread: fc2a5,d6daf85b243020bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!x29g2000prf.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Re: XTAL Radio Receiver Circuits
Date: Wed, 22 Apr 2009 20:45:47 -0700 (PDT)
Organization: http://groups.google.com
Lines: 15
Message-ID: <d6c7702a-5b2d-4eeb-9e71-f85635f2dcb1@x29g2000prf.googlegroups.com>
References: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
     <eaidnT16IoW_aHHUnZ2dnUVZ_v6dnZ2d@web-ster.com> <75703417-7862-44fb-
b43f-11e09f7e9e17@w35g2000prg.googlegroups.com>
     <gsm23e0qvc@news3.newsguy.com>
<a28cb646-5ebd-4d82-92e8-1595a364fab8@y10g2000prc.googlegroups.com>
     <VmPHl.69696$GU6.51002@newsfe09.iad>
NNTP-Posting-Host: 76.226.138.86
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240458347 29097 127.0.0.1 (23 Apr 2009 03:45:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 23 Apr 2009 03:45:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x29g2000prf.googlegroups.com; posting-host=76.226.138.86;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.9)
     Gecko/2009040821 Firefox/3.0.9 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2270

On Apr 22, 9:18=A0pm, "Unca Pete" <radioconnect...@cox.net> wrote:

>
> For an education:
>
> http://www.bentongue.com/xtalset/xtalset.html

Hey OM:

That's a nice link. But nowhere could I find a diode double, tripler,
or quadrupler detector.

73 OM

de n8zu


From 394206566352003722
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-xfer.nntp.sonic.net!
news.astraweb.com!border1.newsrouter.astraweb.com!not-for-mail
Date: Thu, 23 Apr 2009 14:29:59 +1000
From: Sylvia Else <sylvia@not.at.this.address>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
```

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MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
In-Reply-To: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 16
Message-ID: <002839ba$0$19747$c3e8da3@news.astraweb.com>
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 5c1d8aeb.news.astraweb.com
X-Trace: DXC=mmeFo]V5?[L0UO2<>T]L;AL?
0kYOcDh@J`:9U0LHX=]ASC`<i>AH3OH5;;M`E3\MLL0RAGG4SR[>@M\Ql<N20LKM6na[JlP_B5K
Xref: g2news2.google.com sci.electronics.design:93138
rec.radio.amateur.homebrew:2568

Tim Shoppa wrote:
> A terminology question I suppose about the derivation of the term
> "Superheterodyne" more than anything else:
>
> Does the "Super" actually mean anything? Is there a Subheterodyne?
>
> Traditionally superhets mix a higher radio frequency down to a lower
> IF frequency, but certainly in the past few decades radios with IF's
> above the RF frequency have become very common in broadband
> applications, and those are still called superhets, not subhets :-).

If it comes to that, old Longwave/Mediumwave superhet receivers
generated an IF for the LW band that was higher than the frequency of
the incoming signal. The IF was usually a frequency between the two bands.

Sylvia.


From 3877247353428128960
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 23 Apr 2009 10:27:38 -0500
Date: Thu, 23 Apr 2009 11:27:37 -0400
From: Phil Hobbs <pcdhSpamMeSenseless@electrooptical.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.19) Gecko/
20081204 SeaMonkey/1.1.14 Mnenhy/0.7.6.666
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com>
In-Reply-To: <cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com>
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Content-Transfer-Encoding: 7bit
Message-ID: <ZcudnVO8laZ3FW3UnZ2dnUVZ_o2dnZ2d@supernews.com>
Lines: 45
X-Trace: sv3-
jnnYIjaVwIU10ga37hiF3HuJZcXba7IxKyrj+2JaYK4kwTtzNf2TEr5hu3mTS4fA7TW8LBwwpMcKMa7!
xDi7/LirKGcDppSr1eHz6gyA1YuZkKsyLvEps2AMWobWa8n8jMfLHoxxNkzTlmTMXj3CzjnsmUE8!
cqdtvayUUws=
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2786
Xref: g2news1.google.com sci.electronics.design:78515
rec.radio.amateur.homebrew:2272

John Larkin wrote:
> On Mon, 20 Apr 2009 09:50:05 -0700 (PDT), Tim Shoppa
> <shoppa@trailing-edge.com> wrote:
>
>> A terminology question I suppose about the derivation of the term
>> "Superheterodyne" more than anything else:
>>
>> Does the "Super" actually mean anything? Is there a Subheterodyne?
>>
>> Traditionally superhets mix a higher radio frequency down to a lower
>> IF frequency, but certainly in the past few decades radios with IF's
>> above the RF frequency have become very common in broadband
>> applications, and those are still called superhets, not subhets :-).
>>
>> Google turns up a couple hits on subheterodyne but other than one that
>> might mean "IF higher in frequency than RF" I don't recognize what
>> they mean..
>>
>> I suspect that "Super" was more a marketing term than anything
>> else :-).
>>
>> Tim N3QE
>
> Supersonic.
>
> http://en.wikipedia.org/wiki/Superheterodyne_receiver
>
>
> John
>

Not a bad article, except that he seems to think that cascading multiple
stages at a single IF improves image rejection, and that very high IFs
are much less common than double conversion. (Does *anyone* use double
conversion anymore? Spur city.)

--
Dr Philip C D Hobbs
Principal
ElectroOptical Innovations
55 Orchard Rd
Briarcliff Manor NY 10510
845-480-2058
hobbs at electrooptical dot net
http://electrooptical.net

From -1795500204042093319
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 23 Apr 2009 10:41:45 -0500
From: John Larkin <jjlarkin@highNOTlandTHIStechnologyPART.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Thu, 23 Apr 2009 08:41:46 -0700
Message-ID: <tr21v4tb3sgbqjc38r1hcouaj657358hl9@4ax.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com>
<ZcudnVO8laZ3FW3UnZ2dnUVZ_o2dnZ2d@supernews.com>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 49
X-Trace: sv3-HDnibPHI3lsfAVD/mj601bFE++2GUxPM5XD/38gbQ4SRlYxzMJ5J7PM1j59aV/
fYDJ7YFUD0Cn9+FD6!iYjLViC4iSPU2cFlpIy/l1RgXlYS/
fnvuroyls2L6YJ1NHoDugSXAhJcYuseb7WWJ04X4Kx6uP6L!IZAWPQ==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2963
Xref: g2news1.google.com sci.electronics.design:78521
rec.radio.amateur.homebrew:2273

On Thu, 23 Apr 2009 11:27:37 -0400, Phil Hobbs
<pcdhSpamMeSenseless@electrooptical.net> wrote:

>John Larkin wrote:
>> On Mon, 20 Apr 2009 09:50:05 -0700 (PDT), Tim Shoppa
>> <shoppa@trailing-edge.com> wrote:

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>>>
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>>
>> Supersonic.
>>
>> http://en.wikipedia.org/wiki/Superheterodyne_receiver
>>
>>
>> John
>>
>
>Not a bad article, except that he seems to think that cascading multiple
>stages at a single IF improves image rejection, and that very high IFs
>are much less common than double conversion. (Does *anyone* use double
>conversion anymore? Spur city.)

I did a double-conversion superhet FSK receiver for Reuters, umm,
maybe 20 years ago. I used state-of-the-art MF10 filter chips. Just
after I did it, they dumped all their wireline FSK newsfeeeds for the
Internet. Pity, it was a neat design.

We may do it again soon, for a scientific instrument, more digital
this time.

John

From 8884224951276383909
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news.alt.net!news-xfer.nntp.sonic.net!posts.news.sonic.net!
nnrp1.nntp.sonic.net!not-for-mail

```
Date: Thu, 23 Apr 2009 09:55:27 -0700
From: John Nagle <nagle@animats.com>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
In-Reply-To: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
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Lines: 21
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NNTP-Posting-Date: 23 Apr 2009 16:18:51 GMT
NNTP-Posting-Host: d8e28a7e.news.sonic.net
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X-Complaints-To: abuse@sonic.net
Xref: g2news2.google.com sci.electronics.design:93242
rec.radio.amateur.homebrew:2571
```

Tim Shoppa wrote:

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> IF frequency, but certainly in the past few decades radios with IF's
> above the RF frequency have become very common in broadband
> applications, and those are still called superhets, not subhets :-).

The IF frequency is above the signal frequency, hence the "super" prefix.

There are also "homodyne" receivers, where the local oscillator is at the same frequency as the received carrier. These convert the input signal all the way down to the output signal in one step. This was an early idea, but until phase locked loops were figured out, hard to make work. It's used today in some microwave and optical systems.

John Nagle

```
From 2189574565799667461
X-Google-Thread: fc2a5,d6daf85b243020bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe18.iad.POSTED!7564ea0f!not-for-mail
From: "Unca Pete" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
```

References: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
<eaidnT16IoW_aHHUnZ2dnUVZ_v6dnZ2d@web-ster.com> <75703417-7862-44fb-
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<a28cb646-5ebd-4d82-92e8-1595a364fab8@y10g2000prc.googlegroups.com>
<VmPHl.69696$GU6.51002@newsfe09.iad> <d6c7702a-5b2d-4eeb-9e71-
f85635f2dcb1@x29g2000prf.googlegroups.com>
Subject: Re: XTAL Radio Receiver Circuits
Lines: 25
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <yY4Il.82101$TD1.68906@newsfe18.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe18.iad 1240521630 68.229.77.6 (Thu, 23 Apr 2009 21:20:30 UTC)
NNTP-Posting-Date: Thu, 23 Apr 2009 21:20:30 UTC
Organization: Cox
Date: Thu, 23 Apr 2009 17:20:20 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2572

"raypsi" <RBorowiak@gmail.com> wrote in message
news:d6c7702a-5b2d-4eeb-9e71-f85635f2dcb1@x29g2000prf.googlegroups.com...
On Apr 22, 9:18 pm, "Unca Pete" <radioconnect...@cox.net> wrote:

>
> For an education:
>
> http://www.bentongue.com/xtalset/xtalset.html

Hey OM:

That's a nice link. But nowhere could I find a diode double, tripler,
or quadrupler detector.

73 OM

Probably because they don't deliver any benefits?

de n8zu

From 5570111971175817083
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe18.iad.POSTED!7564ea0f!not-for-mail
From: "Unca Pete" <radioconnection@cox.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<49f094eb$0$1595$742ec2ed@news.sonic.net>
Subject: Re: If Superheterodyne, why not Subheterodyne?
Lines: 3
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <F_4Il.82107$TD1.3658@newsfe18.iad>
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X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe18.iad 1240521765 68.229.77.6 (Thu, 23 Apr 2009 21:22:45 UTC)
NNTP-Posting-Date: Thu, 23 Apr 2009 21:22:45 UTC
Organization: Cox
Date: Thu, 23 Apr 2009 17:22:35 -0400
Xref: g2news2.google.com sci.electronics.design:93331
rec.radio.amateur.homebrew:2573
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Subheterodyne?? BFO???

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X-Google-Thread: fc2a5,c81da0a04b8aae02
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X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!z16g2000prd.googlegroups.com!not-for-
mail
From: kevin93 <kevin@whitedigs.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Thu, 23 Apr 2009 15:09:42 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <9af3d8cc-8501-41fa-aa06-165b0766bd6b@z16g2000prd.googlegroups.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
NNTP-Posting-Host: 71.116.65.178
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240524583 934 127.0.0.1 (23 Apr 2009 22:09:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 23 Apr 2009 22:09:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
```

Injection-Info: z16g2000prd.googlegroups.com; posting-host=71.116.65.178;
     posting-account=Jf_6BQoAAABLoKF4Ku8KsxDqTYaPlBN8
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.9)
     Gecko/2009040821 Firefox/3.0.9,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:93339
rec.radio.amateur.homebrew:2574

On Apr 20, 9:50=A0am, Tim Shoppa <sho...@trailing-edge.com> wrote:
> A terminology question I suppose about the derivation of the term
> "Superheterodyne" more than anything else:
>
> Does the "Super" actually mean anything? Is there a Subheterodyne?
>
> Traditionally superhets mix a higher radio frequency down to a lower
> IF frequency, but certainly in the past few decades radios with IF's
> above the RF frequency have become very common in broadband
> applications, and those are still called superhets, not subhets :-).
>
> Google turns up a couple hits on subheterodyne but other than one that
> might mean "IF higher in frequency than RF" I don't recognize what
> they mean..
>
> I suspect that "Super" was more a marketing term than anything
> else :-).
>
> Tim N3QE

I thought it was a contraction of "supersonic heterodyne".

At that time receivers were TRF and in many cases used reaction (i.e.
controlled positive feedback) to improve selectivity and gain. This
could be exploited to receive CW signals by advancing to the point of
feedback resulting in an audible heterodyne (whistle) at the output
whwn tuned close to a signal.

The supersonic heterodyne performed in a similar way but was
intentionally above audible range (i.e. supersonic) for amplification
at the intermediate frequency.

kevin

From -8945937140500673678
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!club-internet.fr!feedme-
small.clubint.net!news.astraweb.com!border1.a.newsrouter.astraweb.com!not-for-mail
Message-ID: <49F0F417.DDA0C0D0@hotmail.com>
Date: Fri, 24 Apr 2009 00:04:55 +0100

From: Eeyore <rabbitsfriendsandrelations@hotmail.com>
Organization: Eeyore's gloomy place
X-Mailer: Mozilla 4.8 [en] (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<Xns9BF37A18D3745VeebleFetzer@216.250.184.7>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 19
NNTP-Posting-Host: ca478df9.news.astraweb.com
X-Trace: DXC=oTVM\7MEkT?SG6fD[7G;H=L?0kYOcDh@:73I2W[YToJ;b]RS[Z@U7C;>W1Kfo5C?
<=RREDYWKC`Z>Cka]45VD4I1
Xref: g2news2.google.com sci.electronics.design:93357
rec.radio.amateur.homebrew:2575

Bert Hyman wrote:

> Tim Shoppa <shoppa@trailing-edge.com> wrote:
>
> > A terminology question I suppose about the derivation of the term
> > "Superheterodyne" more than anything else:
> >
> > Does the "Super" actually mean anything?
>
> My recollection is that Armstrong used the term "supersonic heterodyne"
> to note the fact that the beat frequency between the signal and LO
> was "supersonic."

Ultrasonic of course, so it's been the wrong name all along.

Graham

From 1238612856017937201
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
news.astraweb.com!border3.a.newsrouter.astraweb.com!not-for-mail
Message-ID: <49F0F505.50ABB8B7@hotmail.com>
Date: Fri, 24 Apr 2009 00:08:53 +0100
From: Eeyore <rabbitsfriendsandrelations@hotmail.com>
Organization: Eeyore's gloomy place
X-Mailer: Mozilla 4.8 [en] (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew

Subject: Re: If Superheterodyne, why not Subheterodyne?
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com> <64d06f97-d4a2-4917-a0cc-d79f91d3a428@m19g2000yqk.googlegroups.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 41
NNTP-Posting-Host: ca478df9.news.astraweb.com
X-Trace: DXC=<h\WMb4mX2U1IA2mQNenURL?0kYOcDh@Z73I2W[YToJ[b]RS[Z@U7C[>W1Kfo5C?
<]RREDYWKC`Z^Cka]45VD4IQ
Xref: g2news1.google.com sci.electronics.design:78649
rec.radio.amateur.homebrew:2279

Tim Shoppa wrote:

> John Larkin <jjSNIPlar...@highTHISlandtechnology.com> wrote:
> > Tim Shoppa <sho...@trailing-edge.com> wrote:
> > >A terminology question I suppose about the derivation of the term
> > >"Superheterodyne" more than anything else:
> >
> > >Does the "Super" actually mean anything? Is there a Subheterodyne?
> >
> > >Traditionally superhets mix a higher radio frequency down to a lower
> > >IF frequency, but certainly in the past few decades radios with IF's
> > >above the RF frequency have become very common in broadband
> > >applications, and those are still called superhets, not subhets :-).
> >
> > >Google turns up a couple hits on subheterodyne but other than one that
> > >might mean "IF higher in frequency than RF" I don't recognize what
> > >they mean..
> >
> > >I suspect that "Super" was more a marketing term than anything
> > >else :-).
> >
> > >Tim N3QE
> >
> > Supersonic.
> >
> > http://en.wikipedia.org/wiki/Superheterodyne_receiver
>
> I saw that in Wikipedia too. I didn't believe it, it doesn't make
> sense. Why not just call all radio frequencies and IF frequencies
> above 20kHz "supersonic"? Then all radios (*) are supersonic, and
> we're back to super meaning nothing at all.

Supersonic today means travelling faster than the speed of sound. The correct
word now would be ultrasonic.

So maybe they should be recalled ultraheterodyne receivers.

Graham

From -1323702982127673662
X-Google-Thread: fc2a5,d814ddbd924d1874
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news3
From: Bill M <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Headphone Impedance
Date: Thu, 23 Apr 2009 18:12:10 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 21
Message-ID: <gsr04t024hl@news3.newsguy.com>
References: <d8ef4a43-b0b4-44e1-bebe-aa2d8c6397eb@l9g2000vba.googlegroups.com>
<757ef230-3bbd-4de6-9126-2fa6f772f0d2@y6g2000prf.googlegroups.com>
<gsm2hi0rb1@news3.newsguy.com> <A7JHl.130838$BR.72251@en-nntp-04.dc1.easynews.com>
<7IadnaN19Lv_EHLUnZ2dnUVZ_judnZ2d@earthlink.com>
<okPHl.69647$GU6.47674@newsfe09.iad>
NNTP-Posting-Host: p24d1bfbfff00000073b1290e905b03f4f4edcc2ec7af5129.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
In-Reply-To: <okPHl.69647$GU6.47674@newsfe09.iad>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2577

Unca Pete wrote:
> Ben Tongue's website offers exellent engineering analysis
> and practical information on crystal set design:
>
> http://www.bentongue.com/xtalset/xtalset.html
>
> For good practical discussions try TheRadioBoard.com.
> Lot's of xtal set experimenters over there to answer
> questions...
>
> Pete k1zjh
>
>
>

Was gonna recommend the same. Along the lines of good 'crystal radio' headphones some of the guys have found some of the little piezo devices make for a very sensitive, high-impedance DIY headfone project. I think one of the guys is selling them as a kit, with shooter's muffs included. Haven't tried them myself but the reports are very favorable.

-Bill

From 6167789420588010892
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
newsfeed.straub-nv.de!news.albasani.net!fu-berlin.de!uni-berlin.de!individual.net!
not-for-mail
From: "Phil Allison" <philallison@tpg.com.au>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Fri, 24 Apr 2009 10:16:19 +1000
Lines: 28
Message-ID: <75cemgF17ntdsU1@mid.individual.net>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<Xns9BF37A18D3745VeebleFetzer@216.250.184.7> <49F0F417.DDA0C0D0@hotmail.com>
X-Trace: individual.net IALKf9a7IRsvQ4CJhl0KiAMkNxrcpDTtpYWTjGrjNGOLP1x3cD
Cancel-Lock: sha1:jYK2rcVf7lwM+Mannfn2EQlIw8U=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Xref: g2news2.google.com sci.electronics.design:93386
rec.radio.amateur.homebrew:2578

"Eeysore the Fuckwit "
> Tim Shoppa the ASD fucked Shithead "
>>
>> > A terminology question I suppose about the derivation of the term
>> > "Superheterodyne" more than anything else:
>> >
>> > Does the "Super" actually mean anything?
>>
>> My recollection is that Armstrong used the term "supersonic heterodyne"
>> to note the fact that the beat frequency between the signal and LO
>> was "supersonic."
>
> Ultrasonic of course,

** There is no "of course" about it".

> so it's been the wrong name all along.

** Pedantic, insane bollocks.

.....   Phil

```
From 1048076904022838455
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
news2.arglkargh.de!nuzba.szn.dk!pnx.dk!fu-berlin.de!uni-berlin.de!individual.net!
not-for-mail
From: "Phil Allison" <philallison@tpg.com.au>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Fri, 24 Apr 2009 10:19:25 +1000
Lines: 15
Message-ID: <75cesbF170aesU1@mid.individual.net>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
     <cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com> <64d06f97-d4a2-4917-a0cc-
d79f91d3a428@m19g2000yqk.googlegroups.com> <49F0F505.50ABB8B7@hotmail.com>
X-Trace: individual.net lM6XPvx7zFrBrGswXYP4jQ5v4AIvips2a1AgiaDlEGHuIFQmJl
Cancel-Lock: sha1:IkFrTEFsoh74aGRk3WjhT2cea+k=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Xref: g2news1.google.com sci.electronics.design:78678
rec.radio.amateur.homebrew:2282
```

"Eeysore the Fucking LIAR "

> Supersonic today means travelling faster than the speed of sound.

** Not when the context is frequency - you fucking MORON.

http://en.wiktionary.org/wiki/supersonic

......   Phil

```
From -5212365772791682805
X-Google-Thread: fc2a5,d6daf85b243020bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
```

newsp.newsguy.com!news3
From: Bill M <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: XTAL Radio Receiver Circuits
Date: Thu, 23 Apr 2009 18:21:46 -0600
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 30
Message-ID: <gsr0mu02502@news3.newsguy.com>
References: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
<eaidnT16IoW_aHHUnZ2dnUVZ_v6dnZ2d@web-ster.com> <75703417-7862-44fb-
b43f-11e09f7e9e17@w35g2000prg.googlegroups.com> <gsm23e0qvc@news3.newsguy.com>
<a28cb646-5ebd-4d82-92e8-1595a364fab8@y10g2000prc.googlegroups.com>
<VmPHl.69696$GU6.51002@newsfe09.iad> <d6c7702a-5b2d-4eeb-9e71-
f85635f2dcb1@x29g2000prf.googlegroups.com> <yY4Il.82101$TD1.68906@newsfe18.iad>
NNTP-Posting-Host: p24d1bfbfff00000073b1290e905b03f4f4edcc2ec7af5129.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
In-Reply-To: <yY4Il.82101$TD1.68906@newsfe18.iad>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2580

Unca Pete wrote:
> "raypsi" <RBorowiak@gmail.com> wrote in message
> news:d6c7702a-5b2d-4eeb-9e71-f85635f2dcb1@x29g2000prf.googlegroups.com...
> On Apr 22, 9:18 pm, "Unca Pete" <radioconnect...@cox.net> wrote:
>
>> For an education:
>>
>> http://www.bentongue.com/xtalset/xtalset.html
>
> Hey OM:
>
> That's a nice link. But nowhere could I find a diode double, tripler,
> or quadrupler detector.
>
> 73 OM
>
> Probably because they don't deliver any benefits?

Basically true but in fairness to the folks who have never tried it you
MAY get some additional volume on a reasonably strong local station.
You shoot your selectivity and ultimate sensitivity in the foot, though,
because of the extra loading on the tank. ie, not a DX set.

There's one circuit floating around that uses a dual center-tapped tank
(so to speak) with a diode on each side and their outputs are combined.
One fellow said it worked pretty well as a workaround for the
loading concern. Still not a DXers set but better than attempting a
voltage doubling detector.

-Bill

```
From -2064592883489551281
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: "Phil Allison" <philallison@tpg.com.au>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Fri, 24 Apr 2009 10:25:21 +1000
Lines: 17
Message-ID: <75cf7eF1807ubU1@mid.individual.net>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<49f094eb$0$1595$742ec2ed@news.sonic.net>
X-Trace: individual.net c/3gwnhhZXsCKUDUiMFKZAXdDblsPg9Hvnn0c4bUPH32Q/MNi9
Cancel-Lock: sha1:G2Qvb3YVoIi6CmbIQSZqQfFM+WM=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Response
Xref: g2news1.google.com sci.electronics.design:78682
rec.radio.amateur.homebrew:2284
```

"John Nagle the Flatulent Fool"

> The IF frequency is above the signal frequency, hence the "super"
> prefix.

** Nagle just did another smelly fart.

Peeeeeeuuueeee

.... Phil

```
From 1940023830002060644
X-Google-Thread: fc2a5,90a989b032f13f4c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!q16g2000yqg.googlegroups.com!not-for-
mail
From: "sdswartz@comcast.net" <sdswartz@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
```

```
Subject: Re: nixie driver
Date: Sat, 18 Apr 2009 21:54:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 12
Message-ID: <bda18c0b-6475-471c-b316-648508318c10@q16g2000yqg.googlegroups.com>
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
     <01029c48-2d92-46cf-ac3f-cdc0ded782aa@f14g2000vbf.googlegroups.com>
     <730ba22a-3477-4ec5-8615-1432871e624a@h28g2000yqd.googlegroups.com>
     <i3JEl.5384$Lr6.4870@flpi143.ffdc.sbc.com> <gsab8r$ifa$1@serv1.iunet.it>
NNTP-Posting-Host: 65.96.168.232
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240116885 6200 127.0.0.1 (19 Apr 2009 04:54:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 19 Apr 2009 04:54:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q16g2000yqg.googlegroups.com; posting-host=65.96.168.232;
     posting-account=ne323goAAACY2DkPtuatk1srGLAFeAiF
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
     AppleWebKit/525.28 (KHTML, like Gecko) Version/3.2.2 Safari/
525.28.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2482

On Apr 17, 12:38=A0pm, "LAB" <n...@mail.com> wrote:
> =A0 =A0 You can find K155ID1 here for 1.50USD:http://www.tubehobby.com/sh=
ow_det.php?det=3D34
>
> --
> Gianluca

Maybe it is a little un-cool for me to mention this but there is an
entire yahoo group devoted to all things nixie including tubes drivers
parts procurement  circuit s etc.

Steve



From -2321021637846339453
X-Google-Thread: fc2a5,c21f234e2546f0aa
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!goblin1!goblin.stu.neva.ru!
feeder.news.heanet.ie!news.indigo.ie!not-for-mail
From: Eamon Skelton <Xnospam@oceanfree.net>
Subject: Re: Looking for M67715 PA Module
Newsgroups: rec.radio.amateur.homebrew
References: <69CdnYFqo8lXAXfUnZ2dnUVZ_qadnZ2d@bright.net>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
```

```
Lines: 23
Message-ID: <J7GGl.28768$j7.491748@news.indigo.ie>
Date: Sun, 19 Apr 2009 14:00:09 GMT
NNTP-Posting-Host: 83.71.106.237
X-Complaints-To: abuse@eircom.net
X-Trace: news.indigo.ie 1240149609 83.71.106.237 (Sun, 19 Apr 2009 15:00:09 BST)
NNTP-Posting-Date: Sun, 19 Apr 2009 15:00:09 BST
Organization: Eircom.Net http://www.eircom.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:2186

On Sun, 19 Apr 2009 03:38:50 +0000, Scott wrote:

> Anyone have a new one for sale?  My usual supplier (RF Parts) says they
> are all gone.  Need one for my 1296 transverter project.
>
> Scott, N0EDV
> http://shop.ebay.com/merchant/
jracepilot_W0QQ_dmdZ1QQ_in_kwZ1QQ_ipgZ50QQ_sopZ12?_rdc=1


Barend Hendrikson seem to have them in stock.
Not cheap!

http://www.xs4all.nl/~barendh/Indexeng.htm






--
Remove 'X' to reply by e-mail.
Linux-2.6.26




From -6763107778643444101
X-Google-Thread: fc2a5,c21f234e2546f0aa
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 19 Apr 2009 09:23:13 -0500
Date: Sun, 19 Apr 2009 14:23:13 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for M67715 PA Module
References: <69CdnYFqo8lXAXfUnZ2dnUVZ_qadnZ2d@bright.net>
<J7GGl.28768$j7.491748@news.indigo.ie>
In-Reply-To: <J7GGl.28768$j7.491748@news.indigo.ie>
Content-Type: text/plain; charset=UTF-8; format=flowed
```

Content-Transfer-Encoding: 7bit
Message-ID: <coSdnSMekaZMrnbUnZ2dnUVZ_v6dnZ2d@bright.net>
Lines: 25
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-O9Dzj4ZQ5laKMrf1tVvznPFLWhkvEMuVjUlutWWliXeripv9wAIo+mUlvxn6aMjoJ/
D04GgkCGctW04!ax3eGnu2FcHBMm0EgqNLeRytzu/
rX1NuHdtoZX1o9rfpp99Nq1sFtdW4t62vxF6prKjZiObB7BHT!/ydlnxpWZA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1769
Xref: g2news2.google.com rec.radio.amateur.homebrew:2484

OEamon Skelton wrote:
> On Sun, 19 Apr 2009 03:38:50 +0000, Scott wrote:
>
>> Anyone have a new one for sale? My usual supplier (RF Parts) says they
>> are all gone. Need one for my 1296 transverter project.
>>
>> Scott, N0EDV
>> http://shop.ebay.com/merchant/
jracepilot_W0QQ_dmdZ1QQ_in_kwZ1QQ_ipgZ50QQ_sopZ12?_rdc=1
>
>
> Barend Hendrikson seem to have them in stock.
> Not cheap!
>
> http://www.xs4all.nl/~barendh/Indexeng.htm
>
>
>
>
>

Ouch. VERY ouch. Guess I'll have to look at one of the MOSFET "RA"
modules....

Thanks for the link though!

From -4848682878453571949
X-Google-Thread: fc2a5,90a989b032f13f4c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.netfront.net!not-for-mail
From: Bruce W. Ellis <ellis@means.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: nixie driver
Date: Sun, 19 Apr 2009 13:00:56 -0500

```
Organization: Netfront http://www.netfront.net
Lines: 29
Message-ID: <35fvt41qqila7fmq29hdst7b4baj9kknqm@4ax.com>
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
<01029c48-2d92-46cf-ac3f-cdc0ded782aa@f14g2000vbf.googlegroups.com>
Reply-To: ellis*nospam*@means.net
NNTP-Posting-Host: 206.8.12.143
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Trace: adenine.netfront.net 1240163917 18105 206.8.12.143 (19 Apr 2009 17:58:37
GMT)
X-Complaints-To: news@netfront.net
NNTP-Posting-Date: Sun, 19 Apr 2009 17:58:37 +0000 (UTC)
X-Newsreader: Forte Agent 3.1/32.783
Xref: g2news1.google.com rec.radio.amateur.homebrew:2188

On Wed, 8 Apr 2009 06:51:53 -0700 (PDT), Tim Shoppa
<shoppa@trailing-edge.com> wrote:

>On Apr 3, 10:34�am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>> I have a Systron Donner frequency counter that uses Nixie tubes. The
>> counter works fine but I am forever replacing the Nixie drivers
>> 74141s. I started to use it this AM an one was out. Is there a
>> replacement for the 74141, I couldnt find one, or is there a circuit I
>> could build on a DIP header to replace them. I could probably design
>> one but I wanted something tried an tested as I dont want to put my
>> counter board at more risk than I have to.
>
>Domestic 74141's are hard to find these days but on E-bay the Russian
>equivalent is very common.
>
>Yes, you could build just about anything with a one-of-ten decoder and
>some current-sink drivers to do the same.
>
>If the goal isn't nixie tubes but is a working frequency counter, you
>could probably put the counter up on E-bay for somebody who wants
>nixie tubes, and use the money to buy several superior frequency
>counters.
>
>Tim N3QE

Just remember to cut down on the voltage and current to the nixie
tubes and the 141s will last forever...

Bruce  W0BF


From 4663769035734581119
X-Google-Thread: fc2a5,90a989b032f13f4c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!x6g2000vbg.googlegroups.com!not-for-
```

mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: nixie driver
Date: Sun, 19 Apr 2009 12:13:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 44
Message-ID: <7706b893-51ae-433c-a5ac-89a22df83350@x6g2000vbg.googlegroups.com>
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
<01029c48-2d92-46cf-ac3f-cdc0ded782aa@f14g2000vbf.googlegroups.com>
<35fvt41qqila7fmq29hdst7b4baj9kknqm@4ax.com>
NNTP-Posting-Host: 165.254.211.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240168393 29852 127.0.0.1 (19 Apr 2009 19:13:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 19 Apr 2009 19:13:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x6g2000vbg.googlegroups.com; posting-host=165.254.211.4;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2486

On Apr 19, 2:00=A0pm, Bruce W. Ellis <el...@means.net> wrote:
> On Wed, 8 Apr 2009 06:51:53 -0700 (PDT), Tim Shoppa
>
>
>
>
>
> <sho...@trailing-edge.com> wrote:
> >On Apr 3, 10:34=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> >> I have a Systron Donner frequency counter that uses Nixie tubes. The
> >> counter works fine but I am forever replacing the Nixie drivers
> >> 74141s. I started to use it this AM an one was out. Is there a
> >> replacement for the 74141, I couldnt find one, or is there a circuit I
> >> could build on a DIP header to replace them. I could probably design
> >> one but I wanted something tried an tested as I dont want to put my
> >> counter board at more risk than I have to.
>
> >Domestic 74141's are hard to find these days but on E-bay the Russian
> >equivalent is very common.
>
> >Yes, you could build just about anything with a one-of-ten decoder and
> >some current-sink drivers to do the same.
>
> >If the goal isn't nixie tubes but is a working frequency counter, you
> >could probably put the counter up on E-bay for somebody who wants
> >nixie tubes, and use the money to buy several superior frequency
> >counters.

>
> >Tim N3QE
>
> Just remember to cut down on the voltage and current to the nixie
> tubes and the 141s will last forever...
>
> Bruce =A0W0BF- Hide quoted text -
>
> - Show quoted text -

Thanks all for the input. I managed to cut the voltage back from about
210VDC to 185VDC and the display still looks good, the change in
brightness was barely discernable. It may take a while to see if this
helped. What voltage do you normally run on nixies. I wish I had more
data on the nixies but I dont have a part number.

Jimmie

From 978308898262056657
X-Google-Thread: fc2a5,c21f234e2546f0aa
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-
me.highwinds-media.com!nntp.club.cc.cmu.edu!feeder.erje.net!feeder.news-
service.com!xlned.com!feeder3.xlned.com!news2.euro.net!newsgate.cistron.nl!
newsgate.news.xs4all.nl!post.news.xs4all.nl!not-for-mail
From: Geert Jan de Groot
Subject: Re: Looking for M67715 PA Module
Organization: YMBK
References: <coSdnSMekaZMrnbUnZ2dnUVZ_v6dnZ2d@bright.net>
Newsgroups: rec.radio.amateur.homebrew
Date: 19 Apr 2009 22:37:01 GMT
Lines: 19
Message-ID: <49eba78d$0$189$e4fe514c@news.xs4all.nl>
NNTP-Posting-Host: 213.84.211.19
X-Trace: 1240180621 news.xs4all.nl 189 [::ffff:213.84.211.19]:59187
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:2190

>>> Anyone have a new one for sale? My usual supplier (RF Parts) says they
>>> are all gone. Need one for my 1296 transverter project.
>> Barend Hendrikson seem to have them in stock.
>> Not cheap!
> Ouch. VERY ouch. Guess I'll have to look at one of the MOSFET "RA"
> modules....

67715's have been out of production for a number of years now,
because their MOSFET counterparts are better: more linear,
higher gain, more efficient.

I realize it hurts when you can't just plunk in a part but in the end you'll feel better, honest..

73,

Geert Jan PE1HZG

```
From -5316304111542987801
X-Google-Thread: fc2a5,c21f234e2546f0aa
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 20 Apr 2009 05:20:53 -0500
Date: Mon, 20 Apr 2009 10:20:50 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for M67715 PA Module
References: <coSdnSMekaZMrnbUnZ2dnUVZ_v6dnZ2d@bright.net>
<49eba78d$0$189$e4fe514c@news.xs4all.nl>
In-Reply-To: <49eba78d$0$189$e4fe514c@news.xs4all.nl>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <oP6dnSSkwOkb0XHUnZ2dnUVZ_sWdnZ2d@bright.net>
Lines: 27
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: 
sv3-5NDPh8cWQ9YRVz0PrDi31BXv4aYuDluWXwnT709SrRoV4QUCzeOU4N+FOm9DwvH+OA1BetBT1sgd1C
x!KBvOJFCg0lJ+lr2BEmrI5AW32Zz4bJ+5tEhEEZbgi30EClWiSx7vuGgNUBOQvAh0N3S6KBAzwZus!
A7vewpwOYA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint 
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1993
Xref: g2news1.google.com rec.radio.amateur.homebrew:2191
```

Geert Jan de Groot wrote:

>
> 67715's have been out of production for a number of years now,
> because their MOSFET counterparts are better: more linear,
> higher gain, more efficient.
>
> I realize it hurts when you can't just plunk in a part but
> in the end you'll feel better, honest..
>

> 73,
>
> Geert Jan PE1HZG
>
>

I think we are possibly talking about different MOSFET modules. The one I specifically refer to for use at 1240-1300 MHz (RA181213G). The data sheet says it is designed for FM (NON-linear) but can be set up for linear use by setting Id with Vgg and controlling the output level with the input (RF) level. http://www.rfparts.com/pdf_docs/RA/RA18H1213G.pdf

It should work...it will just require a few additional components.

Scott
N0EDV

From -8788460328183413447
X-Google-Thread: fc2a5,ea7e6399f9c3d96c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!b1g2000vbc.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW connector
Date: Mon, 20 Apr 2009 08:20:01 -0700 (PDT)
Organization: http://groups.google.com
Lines: 74
Message-ID: <e90e55ca-2bd9-483d-82c3-91f3658adeb5@b1g2000vbc.googlegroups.com>
References: <F-qdnRCDEM-qlHjUnZ2dnUVZ_vadnZ2d@earthlink.com>
     <287b1174-0625-4660-8320-556f067ed696@s20g2000yqh.googlegroups.com>
     <8187339e-bd55-466b-a4e0-30da711f1e72@h2g2000yqg.googlegroups.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240240801 19505 127.0.0.1 (20 Apr 2009 15:20:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 20 Apr 2009 15:20:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b1g2000vbc.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB5;
     .NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2489

On Apr 16, 9:55=A0pm, K7ITM <k7...@msn.com> wrote:
> On Apr 16, 1:17=A0pm, Tim Shoppa <sho...@trailing-edge.com> wrote:
>

>
>
>
>
> > On Apr 14, 6:07=A0pm, David Harmon <sou...@netcom.com> wrote:
>
> > > Is there any particular plug/socket type connector that is an accepte=
d
> > > standard or most prevalent kind for connecting a CW key to a radio?
>
> > Quarter inch phone plug is most common on equipment from the 50's,
> > 60's, 70's. A few use a phono (RCA) plug.
>
> > A lot of recent equipment has an 1/8" stereo jack that allows you to
> > use an iambic paddle on the rig's built in keyer.
>
> > There have in the past few months been a couple of QST reviews of
> > paddles and portable paddles where, for some bizarre reason, the
> > reviewer assumed that a typical user was incapable of wiring the
> > connecting plug or correcting the wiring if left and right was
> > reversed. I thought this was a little odd, but maybe a lot of newbie
> > hams really cannot wire a plug. I will admit that the cheapie plugs
> > and jacks from Radio Shack, Mouser, etc., are pretty crappy and melt
> > the insulator if you are too heavy handed with a soldering gun. The
> > Switchcraft plugs and jacks (a lot more money than the cheap stuff!)
> > are a joy to work with.
>
> > Tim.
>
> Which is not to say that Mouser ONLY carries "cheapie" plugs and
> jacks. =A0They are a Deltron distributor, and Deltron makes some really
> fine parts. =A0For one of their 1/4" phone plugs, seehttp://www.dem-uk.co=
m/DEM_PDFs/326.pdf. =A0I've been using Deltron XLR
> connectors for over 10 years, and find they are a real joy to assemble
> and to use, and have held up extremely well in a professional audio
> environment. =A0The XLRs beat the Switchcrafts hands down, and I
> personally like them better than Neutrik. =A0But their over $10 each
> price for 1/4" phone plugs probably isn't for everyone. =A0;-) =A0(Mouser
> also sells Switchcraft...)

I also like the Neutrik's but at least with the connectors I've seen,
the insulators are thermosetting plastics that can melt under
soldering temperatures.

One of my pet peeves (extending back to polystyrene coil forms in my
childhood) is that I really really hate it when plastic starts melting
when I use a soldering iron in a fairly normal fashion. I will admit
that there are special cases where extra precautins must be taken, and
I will admit that sometimes I may be a little heavy handed with my
WTCPT (which is temperature regulated).

But I can also see a newbie (like maybe that QST reviewer) using a non-regulated-temperature soldering iron and getting frustrated with soldering simple connectors.

I really really like the Switchcrafts for their solid feel and unmeltable insulators. I admit that Neutrik et al are pretty good too, and I can put myself in the mindset of "be careful, don't melt it!" when I use them, but I just adore the Switchcrafts.

Radio Shack and Mouser have some other brands at differing price points and differing gold plating but I honestly have little to no feel for where they fall on actual usability. With any brand other than Switchcraft, I always have the fear that I'll pay extra money and end up with cheap crap. With Switchcrafts, I know that I'll pay the extra money but also know I'll never end up with cheap crap.

I do like some of the other Deltron-branded stuff from Mouser, especially their chassis punches.

Tim N3QE

```
From -51939823068758406
X-Google-Thread: fc2a5,ea7e6399f9c3d96c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 20 Apr 2009 10:39:43 -0500
Date: Mon, 20 Apr 2009 10:39:07 -0500
From: sorry-spammers <""w9wi\"@(sorry-spammers)">
Organization: Ham Radio W9WI
User-Agent: Thunderbird 2.0.0.21 (X11/20090318)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW connector
References: <F-qdnRCDEM-qlHjUnZ2dnUVZ_vadnZ2d@earthlink.com>
     <287b1174-0625-4660-8320-556f067ed696@s20g2000yqh.googlegroups.com>
     <8187339e-bd55-466b-a4e0-30da711f1e72@h2g2000yqg.googlegroups.com>
<e90e55ca-2bd9-483d-82c3-91f3658adeb5@b1g2000vbc.googlegroups.com>
In-Reply-To: <e90e55ca-2bd9-483d-82c3-91f3658adeb5@b1g2000vbc.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Yt-dnWIRwYCiCnHUnZ2dnUVZ_qCdnZ2d@earthlink.com>
Lines: 32
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 4.154.42.120
X-Trace: sv3-
KVuAP20cpAFL7UBaTpp+RJ9vSQpxRwla1xbJINZSYAGsQLMZ46z4irR5JiEGkI2CJ6bd3eCRQFIZPIL!
WOppbwlRLmWRG6LhDvtI44g91fvS9SMaNjC42Hod+dB77U3Qb+6M4wJIKpQeaJhkZR05ucJDTTeD!
CPMVAEMaFFzqFaXIOVMJFt8QV/Q=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

X-Postfilter: 1.3.39
X-Original-Bytes: 2748
Xref: g2news2.google.com rec.radio.amateur.homebrew:2490

Tim Shoppa wrote:
> I also like the Neutrik's but at least with the connectors I've seen,
> the insulators are thermosetting plastics that can melt under
> soldering temperatures.

This came up on one of the broadcasting groups a few weeks ago.

I suppose use of XLR connectors is rare in amateur radio but...

I've had problems with Neutrik connectors. On the cable connectors, I've had problems with the strain relief mechanisms breaking. On brand new ones, if you try to tighten them too tight. ("too tight" is to easy to achieve) On ones that have been in service for awhile, they seem to break with less abuse than Switchcraft. (in a field environment they WILL be abused)

On the chassis connectors, at least they used to use "pot metal" for the frame - and the frames would break. We made the mistake of using some for a side connector panel on a live truck, and within a few months they'd managed to push several connectors all the way through the panel.

They're probably OK when used in a situation where they won't be touched very often.

I share the disgust for connectors that melt when soldered in a normal fashion. Haven't had much trouble with that on 1/4" connectors but some on 1/8" and a LOT on RCA connectors.

--

Doug Smith W9WI
Pleasant View, TN EM66

From -3808085469007070840
X-Google-Thread: 112d1e,c81da0a04b8aae02,start
X-Google-Thread: fc2a5,c81da0a04b8aae02,start
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p11g2000yqe.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: If Superheterodyne, why not Subheterodyne?
Date: Mon, 20 Apr 2009 09:50:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
Message-ID: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
NNTP-Posting-Host: 170.121.14.12

Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1240246205 28007 127.0.0.1 (20 Apr 2009 16:50:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 20 Apr 2009 16:50:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p11g2000yqe.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB5;
     .NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com sci.electronics.design:77595
rec.radio.amateur.homebrew:2194

A terminology question I suppose about the derivation of the term
"Superheterodyne" more than anything else:

Does the "Super" actually mean anything? Is there a Subheterodyne?

Traditionally superhets mix a higher radio frequency down to a lower
IF frequency, but certainly in the past few decades radios with IF's
above the RF frequency have become very common in broadband
applications, and those are still called superhets, not subhets :-).

Google turns up a couple hits on subheterodyne but other than one that
might mean "IF higher in frequency than RF" I don't recognize what
they mean..

I suspect that "Super" was more a marketing term than anything
else :-).

Tim N3QE

From -5354136065770039388
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2.glorb.com!news-out.octanews.net!indigo.octanews.net!news-2.mpls.iphouse.net.POSTED!not-for-mail
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
From: Bert Hyman <bert@iphouse.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
Organization: Not that you'd notice
Message-ID: <Xns9BF37A18D3745VeebleFetzer@216.250.184.7>
User-Agent: Xnews/2006.08.24
Date: 20 Apr 2009 17:01:22 GMT
Lines: 15
NNTP-Posting-Date: 20 Apr 2009 12:01:22 CDT
NNTP-Posting-Host: b009967b.newsreader.iphouse.net

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X-Trace:
DXC=DAPfECO8@JP32ZU[B06JIPVn\Tj8`^Bb[eHS>e[L>83Pln8_Pj@<Z_\c230oU7d71QX7@2h;nGb4]B
6\0BFGHFVU
X-Complaints-To: abuse@iphouse.net
Xref: g2news2.google.com sci.electronics.design:92311
rec.radio.amateur.homebrew:2492

In
news:aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com
Tim Shoppa <shoppa@trailing-edge.com> wrote:

> A terminology question I suppose about the derivation of the term
> "Superheterodyne" more than anything else:
>
> Does the "Super" actually mean anything?

My recollection is that Armstrong used the term "supersonic heterodyne"
to note the fact that the beat frequency between the signal and LO
was "supersonic."

--
Bert Hyman    St. Paul, MN  bert@iphouse.com


From 8144525116259800106
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y9g2000yqg.googlegroups.com!not-for-
mail
From: Jean-Christophe <5.d@free.fr>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Mon, 20 Apr 2009 10:09:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 20
Message-ID: <9fc4e2d5-f652-4719-b3d9-4a0edb0b5451@y9g2000yqg.googlegroups.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
     <Xns9BF37A18D3745VeebleFetzer@216.250.184.7>
NNTP-Posting-Host: 81.57.243.236
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1240247367 31627 127.0.0.1 (20 Apr 2009 17:09:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 20 Apr 2009 17:09:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y9g2000yqg.googlegroups.com; posting-host=81.57.243.236;
     posting-account=lF06ZAkAAADrGPBheeaddQl-ysmEnsS4
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; iebar;
     SV1),gzip(gfe),gzip(gfe)
```

Xref: g2news2.google.com sci.electronics.design:92316
rec.radio.amateur.homebrew:2493

On Apr 20, 5:50 pm, Tim Shoppa <sho...@trailing-edge.com> wrote:
> A terminology question I suppose about the derivation of the term
> "Superheterodyne" more than anything else:
>
> Does the "Super" actually mean anything? Is there a Subheterodyne?
> Traditionally superhets mix a higher radio frequency down to a lower
> IF frequency, but certainly in the past few decades radios with IF's
> above the RF frequency have become very common in broadband
> applications, and those are still called superhets, not subhets :-).
> Google turns up a couple hits on subheterodyne but other than one that
> might mean "IF higher in frequency than RF" I don't recognize what
> they mean..

A superheterodyne can be Supradyne or Infradyne,
depending of the IF against the RF.

> I suspect that "Super" was more a marketing term than anything
> else :-).

I don't superthink so.

From 8071712001053078575
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 20 Apr 2009 12:11:06 -0500
From: John Larkin <jjSNIPlarkin@highTHISlandtechnology.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Mon, 20 Apr 2009 10:10:48 -0700
Organization: hti
Reply-To: jjSNIPlarkin@highTHISlandtechnology.com
Message-ID: <cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
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MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 29
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m!Kf9nL+lS17bawFqFcJnrBOkLfNFoKtTk/INLvv3WSsDuOVszROaSld0+D9BdMq83hvhrFPo+WlDN!
P1c=
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html

```
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2127
Xref: g2news1.google.com sci.electronics.design:77607
rec.radio.amateur.homebrew:2197

On Mon, 20 Apr 2009 09:50:05 -0700 (PDT), Tim Shoppa
<shoppa@trailing-edge.com> wrote:

>A terminology question I suppose about the derivation of the term
>"Superheterodyne" more than anything else:
>
>Does the "Super" actually mean anything? Is there a Subheterodyne?
>
>Traditionally superhets mix a higher radio frequency down to a lower
>IF frequency, but certainly in the past few decades radios with IF's
>above the RF frequency have become very common in broadband
>applications, and those are still called superhets, not subhets :-).
>
>Google turns up a couple hits on subheterodyne but other than one that
>might mean "IF higher in frequency than RF" I don't recognize what
>they mean..
>
>I suspect that "Super" was more a marketing term than anything
>else :-).
>
>Tim N3QE

Supersonic.

http://en.wikipedia.org/wiki/Superheterodyne_receiver


John




From -8000245632203470430
X-Google-Thread: fc2a5,d6daf85b243020bc,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z19g2000vbz.googlegroups.com!not-for-
mail
From: David <DavidBR549@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: XTAL Radio Receiver Circuits
Date: Mon, 20 Apr 2009 11:34:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 2
Message-ID: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
NNTP-Posting-Host: 216.79.54.210
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NNTP-Posting-Date: Mon, 20 Apr 2009 18:34:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z19g2000vbz.googlegroups.com; posting-host=216.79.54.210;
     posting-account=p0TJ8QoAAAC8u-pFGl8koNnuPbGXl0aa
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR
     3.0.04506.648),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2198
```

Looking for Crystal Radio Receiver Circuits, that have a voltage
quadrupler to increase headphone volume without batteries or AC power.

```
From -1492652165309388559
X-Google-Thread: fc2a5,c21f234e2546f0aa
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
news.bellsouth.net!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 20 Apr 2009 13:36:42 -0500
Date: Mon, 20 Apr 2009 19:36:55 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for M67715 PA Module
References: <69CdnYFqo8lXAXfUnZ2dnUVZ_qadnZ2d@bright.net>
<J7GGl.28768$j7.491748@news.indigo.ie>
In-Reply-To: <J7GGl.28768$j7.491748@news.indigo.ie>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
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Lines: 24
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NNTP-Posting-Host: 81.178.72.230
X-Trace: sv3-PsEJ9N/
VNc5cRUuCLS+uKnw1hozS2IEyH3rxCq+ND7JdIVN6fX+S5vgMTRXp6wZL20ZklWPg1IxGN9f!
wDmokZl34gxdyoN86D/58nd3WxoDixMQE3bAy/1mUe72wPIzbwJlRt6KDCpmfmBQRlCOd5AwawLu!
dAiFj72dRRmmVHLmZsX+7LxbxQ==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:2199
```

Eamon Skelton wrote:
> On Sun, 19 Apr 2009 03:38:50 +0000, Scott wrote:
>
>> Anyone have a new one for sale? My usual supplier (RF Parts) says they
>> are all gone. Need one for my 1296 transverter project.
>>
>> Scott, N0EDV
>> http://shop.ebay.com/merchant/
> jracepilot_W0QQ_dmdZ1QQ_in_kwZ1QQ_ipgZ50QQ_sopZ12?_rdc=1
>
>
> Barend Hendrikson seem to have them in stock.
> Not cheap!
>
> http://www.xs4all.nl/~barendh/Indexeng.htm

===
Another possible source is Mainline Electronics : PO Box 235
Leicester LE2 9SH - England ,UK
tel : +44 116 277 7648 ; Fax +44 116 247 7551
http://mainline-group.com/

They also have a 'surplus department'

Frank GM0CSZ / KN6WH

```
From 4475218909219642105
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 20 Apr 2009 13:46:22 -0500
Date: Mon, 20 Apr 2009 19:46:34 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
In-Reply-To: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
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Lines: 25
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NNTP-Posting-Host: 81.178.72.230
X-Trace: sv3-GTtVqLD2Zs3dfPCD0JXCbnyOJLNoK/m5QTYb1/
P4rWBS6eN0rM9armbS00IWVfoRq3rVHtLYbQPP+3i!
5cugW+GaxhgA7MhbKCE6k17junoy0HiQNXYp7fLixQ5VDXqQGOFkPnVtELoQpdsONG/PCX/Iztbl!
```

asYXZO3EFVgn8Do1u6pPValuYA==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2258
Xref: g2news2.google.com sci.electronics.design:92359 rec.radio.amateur.homebrew:2497

Tim Shoppa wrote:
> A terminology question I suppose about the derivation of the term
> "Superheterodyne" more than anything else:
>
> Does the "Super" actually mean anything? Is there a Subheterodyne?
>
> Traditionally superhets mix a higher radio frequency down to a lower
> IF frequency, but certainly in the past few decades radios with IF's
> above the RF frequency have become very common in broadband
> applications, and those are still called superhets, not subhets :-).
>
> Google turns up a couple hits on subheterodyne but other than one that
> might mean "IF higher in frequency than RF" I don't recognize what
> they mean..

======================
Many of not most modern HF receivers have a first IF in the 45-75 MHz range.

==
>
> I suspect that "Super" was more a marketing term than anything
> else :-).
>
> Tim N3QE

frank GM0CSZ / KN6WH

From -2002754908976405543
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!m19g2000yqk.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Mon, 20 Apr 2009 12:23:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 47
Message-ID: <64d06f97-d4a2-4917-a0cc-d79f91d3a428@m19g2000yqk.googlegroups.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>

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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 20 Apr 2009 19:23:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m19g2000yqk.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB5;
     .NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com sci.electronics.design:77662
rec.radio.amateur.homebrew:2201

On Apr 20, 1:10=A0pm, John Larkin
<jjSNIPlar...@highTHISlandtechnology.com> wrote:
> On Mon, 20 Apr 2009 09:50:05 -0700 (PDT), Tim Shoppa
>
>
>
>
>
> <sho...@trailing-edge.com> wrote:
> >A terminology question I suppose about the derivation of the term
> >"Superheterodyne" more than anything else:
>
> >Does the "Super" actually mean anything? Is there a Subheterodyne?
>
> >Traditionally superhets mix a higher radio frequency down to a lower
> >IF frequency, but certainly in the past few decades radios with IF's
> >above the RF frequency have become very common in broadband
> >applications, and those are still called superhets, not subhets :-).
>
> >Google turns up a couple hits on subheterodyne but other than one that
> >might mean "IF higher in frequency than RF" I don't recognize what
> >they mean..
>
> >I suspect that "Super" was more a marketing term than anything
> >else :-).
>
> >Tim N3QE
>
> Supersonic.
>
> http://en.wikipedia.org/wiki/Superheterodyne_receiver

I saw that in Wikipedia too. I didn't believe it, it doesn't make
sense. Why not just call all radio frequencies and IF frequencies
above 20kHz "supersonic"? Then all radios (*) are supersonic, and
we're back to super meaning nothing at all.
```

(*) OK, I know about lowfers and there is submarine RF communication
below 20kHz. If I listen in to that with a superhet is it then really
a subhet?

Reminds me of a Simpsons episode where Bart and Homer are arguing
about something, and Bart parrots what Wikipedia says on the subject.
Homer says in a deep resentful voice "We'll fix THAT when we get
home!"

Tim.

```
From 6031616370402692189
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news-xfer.nntp.sonic.net!
news.astraweb.com!border5.newsrouter.astraweb.com!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi064.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
In-Reply-To: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
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NNTP-Posting-Host: 75.26.160.99
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi064.nbdc.sbc.com 1240256172 ST000 75.26.160.99 (Mon, 20 Apr 2009
15:36:12 EDT)
NNTP-Posting-Date: Mon, 20 Apr 2009 15:36:12 EDT
Organization: at&t http://my.att.net/
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SA_QLFC^RQHUPH[P[NRWCCMLSNPOD_ESALHUK@TDFUZHBLJ\XGKL^NXA\EVHSP[D_C^B_^JCX^W]CHBAX]
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Date: Mon, 20 Apr 2009 12:36:12 -0700
Xref: g2news2.google.com sci.electronics.design:92375
rec.radio.amateur.homebrew:2499
```

Tim Shoppa wrote:

> A terminology question I suppose about the derivation of the term
> "Superheterodyne" more than anything else:
>
> Does the "Super" actually mean anything? Is there a Subheterodyne?
>

> Traditionally superhets mix a higher radio frequency down to a lower
> IF frequency, but certainly in the past few decades radios with IF's
> above the RF frequency have become very common in broadband
> applications, and those are still called superhets, not subhets :-).
>
> Google turns up a couple hits on subheterodyne but other than one that
> might mean "IF higher in frequency than RF" I don't recognize what
> they mean..
>
> I suspect that "Super" was more a marketing term than anything
> else :-).
>

If you want to file a new patent for old stuff you could try
subheterodyne and it just might sail through :-)

Oh wait, call it hyperheterodyne, has more glitz. Just like the
supermercados in Spain.

--
Regards, Joerg

http://www.analogconsultants.com/

"gmail" domain blocked because of excessive spam.
Use another domain or send PM.

```
From -3586735082025186082
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!news1.google.com!
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backlog2.nntp.dca.giganews.com!nntp.supernews.com!news.supernews.com.POSTED!not-
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NNTP-Posting-Date: Mon, 20 Apr 2009 14:44:30 -0500
From: John Larkin <jjSNIPlarkin@highTHISlandtechnology.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Mon, 20 Apr 2009 12:44:12 -0700
Organization: hti
Reply-To: jjSNIPlarkin@highTHISlandtechnology.com
Message-ID: <q2kpu4dsupiopinf8qjuoi9o2thqgvr0mr@4ax.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
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MIME-Version: 1.0
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Content-Transfer-Encoding: 8bit
Lines: 46
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X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2821
Xref: g2news1.google.com sci.electronics.design:77668
rec.radio.amateur.homebrew:2203

On Mon, 20 Apr 2009 12:23:53 -0700 (PDT), Tim Shoppa
<shoppa@trailing-edge.com> wrote:

>On Apr 20, 1:10�pm, John Larkin
><jjSNIPlar...@highTHISlandtechnology.com> wrote:
>> On Mon, 20 Apr 2009 09:50:05 -0700 (PDT), Tim Shoppa
>>
>>
>>
>>
>>
>> <sho...@trailing-edge.com> wrote:
>> >A terminology question I suppose about the derivation of the term
>> >"Superheterodyne" more than anything else:
>>
>> >Does the "Super" actually mean anything? Is there a Subheterodyne?
>>
>> >Traditionally superhets mix a higher radio frequency down to a lower
>> >IF frequency, but certainly in the past few decades radios with IF's
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>> >applications, and those are still called superhets, not subhets :-).
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>>
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>>
>> >Tim N3QE
>>
>> Supersonic.
>>
>> http://en.wikipedia.org/wiki/Superheterodyne_receiver
>
>I saw that in Wikipedia too. I didn't believe it, it doesn't make
>sense. Why not just call all radio frequencies and IF frequencies
>above 20kHz "supersonic"? Then all radios (*) are supersonic, and
>we're back to super meaning nothing at all.

Possibly because heterodyne receivers mixed to sonic frequencies.

John

```
From -1914400207118171424
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
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X-Google-Language: ENGLISH,ASCII-7-bit
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for-mail
NNTP-Posting-Date: Mon, 20 Apr 2009 14:46:07 -0500
From: John Larkin <jjSNIPlarkin@highTHISlandtechnology.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Mon, 20 Apr 2009 12:45:49 -0700
Organization: hti
Reply-To: jjSNIPlarkin@highTHISlandtechnology.com
Message-ID: <k5kpu49aemc48i3u7hemml9jelg6plu7br@4ax.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
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W18=
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2451
Xref: g2news1.google.com sci.electronics.design:77670
rec.radio.amateur.homebrew:2204
```

On Mon, 20 Apr 2009 12:36:12 -0700, Joerg
<notthisjoergsch@removethispacbell.net> wrote:

>Tim Shoppa wrote:
>> A terminology question I suppose about the derivation of the term
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>>

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>>
>
>If you want to file a new patent for old stuff you could try
>subheterodyne and it just might sail through :-)
>
>Oh wait, call it hyperheterodyne, has more glitz. Just like the
>supermercados in Spain.

I think we're going to be doing a superhet receiver soon. Maybe we'll
do it in an FPGA!

John

From 8127691697202741371
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!headwall.stanford.edu!
newsfeed.stanford.edu!newshub.sdsu.edu!flph200.ffdc.sbc.com!prodigy.net!
flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!nlpi064.nbdc.sbc.com.POSTED!
78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
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NNTP-Posting-Host: 75.26.160.99
X-Complaints-To: abuse@prodigy.net

X-Trace: nlpi064.nbdc.sbc.com 1240256990 ST000 75.26.160.99 (Mon, 20 Apr 2009 15:49:50 EDT)
NNTP-Posting-Date: Mon, 20 Apr 2009 15:49:50 EDT
Organization: at&t http://my.att.net/
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\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Mon, 20 Apr 2009 12:49:51 -0700
Xref: g2news1.google.com sci.electronics.design:77671
rec.radio.amateur.homebrew:2205

John Larkin wrote:
> On Mon, 20 Apr 2009 12:36:12 -0700, Joerg
> <notthisjoergsch@removethispacbell.net> wrote:
>
>> Tim Shoppa wrote:
>>> A terminology question I suppose about the derivation of the term
>>> "Superheterodyne" more than anything else:
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>> Oh wait, call it hyperheterodyne, has more glitz. Just like the
>> supermercados in Spain.
>

I meant hypermercados :-)

> I think we're going to be doing a superhet receiver soon. Maybe we'll
> do it in an FPGA!
>

How'd you do the preamp in there?

--
Regards, Joerg

```
http://www.analogconsultants.com/

"gmail" domain blocked because of excessive spam.
Use another domain or send PM.


From -2880517553420356636
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news-
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nntp-03.dc1.easynews.com.POSTED!not-for-mail
From: Spehro Pefhany <speffSNIP@interlogDOTyou.knowwhat>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Organization: Rather
Message-ID: <ppkpu4h95oka73o1h9232kn0jtukevte5t@4ax.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
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Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 36
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will be unable to process your complaint properly.
Date: Mon, 20 Apr 2009 15:56:53 -0400
Xref: g2news2.google.com sci.electronics.design:92382
rec.radio.amateur.homebrew:2503

On Mon, 20 Apr 2009 12:49:51 -0700, Joerg
<notthisjoergsch@removethispacbell.net> wrote:

>John Larkin wrote:
>> On Mon, 20 Apr 2009 12:36:12 -0700, Joerg
>> <notthisjoergsch@removethispacbell.net> wrote:
>>
>>> Tim Shoppa wrote:
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>>>>
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```

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>>>> else :-).
>>>>
>>> If you want to file a new patent for old stuff you could try
>>> subheterodyne and it just might sail through :-)
>>>
>>> Oh wait, call it hyperheterodyne, has more glitz. Just like the
>>> supermercados in Spain.
>>
>
>I meant hypermercados :-)

So a convenience store would be a "hypomercado"?

```
From -8085347548013564675
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
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X-Google-Language: ENGLISH,ASCII-7-bit
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nlpi064.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
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Content-Transfer-Encoding: 7bit
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X-Trace: nlpi064.nbdc.sbc.com 1240257426 ST000 75.26.160.99 (Mon, 20 Apr 2009
15:57:06 EDT)
NNTP-Posting-Date: Mon, 20 Apr 2009 15:57:06 EDT
Organization: at&t http://my.att.net/
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\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
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Date: Mon, 20 Apr 2009 12:57:06 -0700
Xref: g2news2.google.com sci.electronics.design:92385
rec.radio.amateur.homebrew:2504

Spehro Pefhany wrote:
> On Mon, 20 Apr 2009 12:49:51 -0700, Joerg
> <notthisjoergsch@removethispacbell.net> wrote:
>
>> John Larkin wrote:
>>> On Mon, 20 Apr 2009 12:36:12 -0700, Joerg
>>> <notthisjoergsch@removethispacbell.net> wrote:
>>>
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>> I meant hypermercados :-)
>
> So a convenience store would be a "hypomercado"?
>

:-)

Those actually called themselves supermercado a lot, probably the reason
why the real ones of the size of a Safeway had to notch it up one category.

--
Regards, Joerg

http://www.analogconsultants.com/

"gmail" domain blocked because of excessive spam.
Use another domain or send PM.

```
From -6201796134338270504
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!k2g2000yql.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Mon, 20 Apr 2009 13:57:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 65
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References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
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NNTP-Posting-Date: Mon, 20 Apr 2009 20:57:26 +0000 (UTC)
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB5;
     .NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com sci.electronics.design:77686
rec.radio.amateur.homebrew:2208

On Apr 20, 3:44=A0pm, John Larkin
<jjSNIPlar...@highTHISlandtechnology.com> wrote:
> On Mon, 20 Apr 2009 12:23:53 -0700 (PDT), Tim Shoppa
>
>
>
>
>
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```

```
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> >> >Tim N3QE
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>
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>
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> >we're back to super meaning nothing at all.
>
> Possibly because heterodyne receivers mixed to sonic frequencies.

I didn't really trust Wikipedia on this (it uses unusual language to
talk about perfectly conventional subjects) but I did find my December
1922 QST, and it says (page 11):

  In December, 1919, Major E. H. Armstrong gave
  publicity to an indirect method of obtaining
  short-wave amplification, called the Super-
  Heterodyne. The idea is to reduce the incoming
  frequency which may be, say 1,500,000 cycles
  (200 meters), to some suitable super-audible
  frequency which can be amplified efficiently, then
  passing this current through a radio frequency
  amplifier and finally rectifying and carrying on
  to one or two stages of audio frequency
  amplification.

To me that sounds a little less awkward and more natural than the
derivation that Wikipedia tries to draw.

Tim N3QE


From 2518667408895488330
X-Google-Thread: fc2a5,d814ddbd924d1874,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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Path: g2news2.google.com!postnews.google.com!l9g2000vba.googlegroups.com!not-for-mail
From: David <DavidBR549@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Headphone Impedance
Date: Mon, 20 Apr 2009 14:46:48 -0700 (PDT)
Organization: http://groups.google.com
Lines: 3
Message-ID: <d8ef4a43-b0b4-44e1-bebe-aa2d8c6397eb@l9g2000vba.googlegroups.com>
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Content-Transfer-Encoding: 7bit
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 20 Apr 2009 21:46:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l9g2000vba.googlegroups.com; posting-host=216.79.54.210;
posting-account=p0TJ8QoAAAC8u-pFGl8koNnuPbGXl0aa
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 3.0.04506.648),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2506

After measuring the headphones with an LCR meter, is there a way to
take the inductance, capacitance and resistance to find the AC
impedance of the headphones at 1KHZ?

From 2780032240981722975
X-Google-Thread: fc2a5,d6daf85b243020bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew
References: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
Subject: Re: XTAL Radio Receiver Circuits
Date: Mon, 20 Apr 2009 16:48:39 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
Message-ID: <cee6$49ecedbb$d8baf3ed$27657@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 15
X-Trace: 0cee649ecedbb7d1f564827657
Xref: g2news2.google.com rec.radio.amateur.homebrew:2507

"David" <DavidBR549@gmail.com> wrote in message
news:5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com...
> Looking for Crystal Radio Receiver Circuits, that have a voltage
> quadrupler to increase headphone volume without batteries or AC power.

Hi David,
I don't think it really works that way. The audio is level is dependent on
the level of the RF signal.
Get a long antenna and sensitive headphones.
Check the http://members.shaw.ca/ve7sl/crystal.html
and see the list at the bottom, check out Rap N Tap.
Mike

From -3724968386735131521
X-Google-Thread: fc2a5,d6daf85b243020bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 20 Apr 2009 17:06:28 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
Subject: Re: XTAL Radio Receiver Circuits
Date: Mon, 20 Apr 2009 18:07:25 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <e8udnd3oN795bHHUnZ2dnUVZ_gqdnZ2d@earthlink.com>
Lines: 11
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.225.35.56
X-Trace:
sv3-8iwU3ldQve4DukShH2PwYGFHhPKMCqYwoqPTYm1Bsbv6DG0WRoKhOh2bJUncQdO867VQGGN6NMKCp5
2!4nDewBenlybXvqHoHA89QhcjEzFRJsDnG6BTrRDsQLhSqqpmlZqQRUvze1xd65DeoNxlnD7LFFfU!
ANOFp03L0VncE69N3z+otWxbgK8DLBqmSXEFFA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1682
Xref: g2news1.google.com rec.radio.amateur.homebrew:2211

"David" <DavidBR549@gmail.com> wrote in message

news:5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com...
> Looking for Crystal Radio Receiver Circuits, that have a voltage
> quadrupler to increase headphone volume without batteries or AC power.

I don't have a circuit, but have seen where a transistor was powered by a
rectified radio signal to boost the audio signal. I think a seperate
antenna and tuned circuit was used on the strongest signal in the area.

From -2187698575055378331
X-Google-Thread: fc2a5,c21f234e2546f0aa
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
feeder.news.heanet.ie!news.indigo.ie!not-for-mail
From: Eamon Skelton <Xnospam@oceanfree.net>
Subject: Re: Looking for M67715 PA Module
Newsgroups: rec.radio.amateur.homebrew
References: <69CdnYFqo8lXAXfUnZ2dnUVZ_qadnZ2d@bright.net>
     <J7GGl.28768$j7.491748@news.indigo.ie>
     <-8qdnccp9pMnXXHUnZ2dnUVZ8g-dnZ2d@pipex.net>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 22
Message-ID: <sn6Hl.28794$j7.492956@news.indigo.ie>
Date: Mon, 20 Apr 2009 22:08:24 GMT
NNTP-Posting-Host: 86.41.173.225
X-Complaints-To: abuse@eircom.net
X-Trace: news.indigo.ie 1240265304 86.41.173.225 (Mon, 20 Apr 2009 23:08:24 BST)
NNTP-Posting-Date: Mon, 20 Apr 2009 23:08:24 BST
Organization: Eircom.Net http://www.eircom.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:2509

On Mon, 20 Apr 2009 19:36:55 +0000, Highland Ham wrote:

> === Another possible
> source is Mainline Electronics : PO Box 235 Leicester LE2 9SH -
> England ,UK
> tel : +44 116 277 7648 ; Fax +44 116 247 7551 http://mainline-group.com/
>
> They also have a 'surplus department'
>
> Frank GM0CSZ / KN6WH

Or GH Engineering http://www.ghengineering.co.uk/products/Mitsubishi.htm
They list the M67715 as: "£48 - obsolete - while stocks last"

--
Remove 'X' to reply by e-mail.
Linux-2.6.26

```
From -1254103146840681362
X-Google-Thread: fc2a5,d814ddbd924d1874
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 20 Apr 2009 17:15:54 -0500
Date: Mon, 20 Apr 2009 15:15:44 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.21 (X11/20090318)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Headphone Impedance
References: <d8ef4a43-b0b4-44e1-bebe-aa2d8c6397eb@l9g2000vba.googlegroups.com>
In-Reply-To: <d8ef4a43-b0b4-44e1-bebe-aa2d8c6397eb@l9g2000vba.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <C96dnX6LKumHaXHUnZ2dnUVZ_gti4p2d@web-ster.com>
Lines: 19
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-RQ36T/
4l1cqHY3iVdQ3GPPZ9mMY1DqaHhrJZXr8KsGK+VKhA4TCDs3bkyaL2kp1KlX5kSTC3pZG2o17!0BK/
hmcwYDV4QWda7Ch+l0axwZPm+0jVMeZevqg/ADbvR83i6sNKrBj1nXdmzAaCCDi4267FisK5!
o437k6M0eYiXKCY=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1763
Xref: g2news1.google.com rec.radio.amateur.homebrew:2213
```

David wrote:

> After measuring the headphones with an LCR meter, is there a way to
> take the inductance, capacitance and resistance to find the AC
> impedance of the headphones at 1KHZ?

If you measured all three at 1kHz, yes.

Otherwise you may find that the _effective_ L, C and R at 1kHz was just that -- effective, not actual.

--

Tim Wescott

Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" was written for you.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From 3108625780098183880
X-Google-Thread: fc2a5,d6daf85b243020bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 20 Apr 2009 17:20:18 -0500
Date: Mon, 20 Apr 2009 15:20:07 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.21 (X11/20090318)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: XTAL Radio Receiver Circuits
References: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
In-Reply-To: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <eaidnT16IoW_aHHUnZ2dnUVZ_v6dnZ2d@web-ster.com>
Lines: 25
X-Usenet-Provider: http://www.giganews.com
X-Trace:
sv3-3a7g8OZFDGy7mn9gOvikKSPE2GrrzgMi0yo3x3fcn8WVb+NJwDgJRPAnX2U0orisRnTxVQ0Mwk6+ss
X!0XvIxq6ODBLS6kaIVkVv7uJyr8Ns7Oq+6GJGp/Ionnw51rUHt/A1KnuHAGacdiL518I6O8lYo/xD!
Nj+CR9HOANbfedE=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2207
Xref: g2news2.google.com rec.radio.amateur.homebrew:2511
```

David wrote:
> Looking for Crystal Radio Receiver Circuits, that have a voltage
> quadrupler to increase headphone volume without batteries or AC power.

If you are quadrupling the voltage at the headphones, then you are, of necessity, dividing the impedance at the detector by a factor of 16.

You only have so much power available at the antenna; a detector followed by an unpowered "voltage quadrupler" won't extract any more power than any other equivalently-well-matched detector, and so won't put any more power to the headphones.

If you really want to do this passively, and not rely on some near-by strong station for power, then you need to optimize your circuit and headphones for efficiency, and you need to get a _lot_ of wire into the air.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" was written for you.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From -6120590949768803O1
X-Google-Thread: fc2a5,d814ddbd924d1874
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 20 Apr 2009 17:28:36 -0500
Date: Mon, 20 Apr 2009 23:28:49 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Headphone Impedance
References: <d8ef4a43-b0b4-44e1-bebe-aa2d8c6397eb@l9g2000vba.googlegroups.com>
In-Reply-To: <d8ef4a43-b0b4-44e1-bebe-aa2d8c6397eb@l9g2000vba.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <sZOdnT3xluyJanHUnZ2dnUVZ8tqdnZ2d@pipex.net>
Lines: 21
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.72.230
X-Trace: sv3-
iFwfdGpEz1+09DqppTPH0/4O+mpW1QgeBjiUHBSCefDgks07uii0UYyefJjEgzj4NcPsw0jIjFvmgm0!
xSIYRWaLY8saAyKpN8tKBPlZWK6hYP+zW2TjFpjezCVhvHyC7Dz4BFn6m0WCpxeNfTDk2cG/hkJC!yc/
2AmBQxpv7knM43aPlzSCN7Q==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1857
Xref: g2news1.google.com rec.radio.amateur.homebrew:2215
```

David wrote:
> After measuring the headphones with an LCR meter, is there a way to
> take the inductance, capacitance and resistance to find the AC
> impedance of the headphones at 1KHZ?

===
the Thandar Electronics Ltd LCR meter model TC200 with LCD readout
(approx 20 yrs old) operates at 1kHz.

I use the instrument regularly ie > once a week.

Thandar Electronics Ltd
London Road
St Ives
Huntingdon
Cambs PE17 4HJ

Now renamed Thrulby-Thandar Instruments Ltd
http://www.tti-test.com/

Frank   GM0CSZ / KN6WH

From 3515193221468053551
X-Google-Thread: fc2a5,d6daf85b243020bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe19.iad.POSTED!7564ea0f!not-for-mail
From: "Unca Pete" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
Subject: Re: XTAL Radio Receiver Circuits
Lines: 14
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <Xi7Hl.18411$gC1.13234@newsfe19.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe19.iad 1240269111 68.229.77.6 (Mon, 20 Apr 2009 23:11:51 UTC)
NNTP-Posting-Date: Mon, 20 Apr 2009 23:11:51 UTC
Organization: Cox
Date: Mon, 20 Apr 2009 18:24:53 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2513

"David" <DavidBR549@gmail.com> wrote in message
news:5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com...
> Looking for Crystal Radio Receiver Circuits, that have a voltage
> quadrupler to increase headphone volume without batteries or AC power.

It is better to play with the design to achieve the desired matching between
the tuner, detector and headphones. Diodes have losses, and fancy

circuits like your suggesting will only multiply the losses, not the
voltage.

Pete

From -1952333497558681807
X-Google-Thread: fc2a5,d6daf85b243020bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!eweka.nl!hq-usenetpeers.eweka.nl!border1.nntp.ams.giganews.com!nntp.giganews.com!feeder2.news.saunalahti.fi!uutiset.elisa.fi!7564ea0f!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: XTAL Radio Receiver Circuits
Message-ID: <n31qu4d1v9v6636fdlr5au4mcl80n9cap5@4ax.com>
References: <5caa0a68-500d-4d9d-b9e4-8a1dc295fa74@z19g2000vbz.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 23
Date: Tue, 21 Apr 2009 02:40:35 +0300
NNTP-Posting-Host: 85.77.249.142
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1240270835 85.77.249.142 (Tue, 21 Apr 2009 02:40:35 EEST)
NNTP-Posting-Date: Tue, 21 Apr 2009 02:40:35 EEST
Organization: Elisa Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:2514

On Mon, 20 Apr 2009 11:34:49 -0700 (PDT), David <DavidBR549@gmail.com>
wrote:

>Looking for Crystal Radio Receiver Circuits, that have a voltage
>quadrupler to increase headphone volume without batteries or AC power.

I assume you are talking about a broadcast receiver for frequencies
below 1600 kHz. At such frequencies and with a typical 500 pF variable
capacitor, the impedance levels for an LC resonant circuit is quite
high.

Loading it with a crystal detector and some low impedance (30 or less)
headphone will load the resonant circuit quite heavily, reducing the
output quite heavily.

In the old days, the typical impedance of a headphone might have been
about 2000 ohms, loading the resonant circuit much less. In order to
cause a similar loading to the resonant circuit using current

headphones, you need an audio transformer with 2000:30 impedance ratio
or 8:1 turns ratio.

Paul OH3LWR

```
From -6897226300977283824
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!newshub.sdsu.edu!
flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!flpi143.ffdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
     <cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com> <64d06f97-d4a2-4917-a0cc-
d79f91d3a428@m19g2000yqk.googlegroups.com>
<q2kpu4dsupiopinf8qjuoi9o2thqgvr0mr@4ax.com> <9f7d92d4-041d-4f08-
bfdd-01951381986c@k2g2000yql.googlegroups.com>
In-Reply-To: <9f7d92d4-041d-4f08-bfdd-01951381986c@k2g2000yql.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 51
Message-ID: <fn8Hl.5835$Lr6.4517@flpi143.ffdc.sbc.com>
NNTP-Posting-Host: 75.26.160.99
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi143.ffdc.sbc.com 1240273483 ST000 75.26.160.99 (Mon, 20 Apr 2009
20:24:43 EDT)
NNTP-Posting-Date: Mon, 20 Apr 2009 20:24:43 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
OX[MR\OGRZRUBRH]^JKBOW@@YJ_ZTB\MV@BNMRQIMASJETAANVW[AKWZE\]^XQWIGNE_[EBL@^_\^JOCQ^
RSNVLGTFTKHTXHHP[NB\_C@\SD@EP_[KCXX__AGDDEKGFNB\ZOKLRNCY_CGG[RHT_UN@C_BSY\G__IJIX_
PLSA[CCFAULEY\FL\VLGANTQQ]FN
Date: Mon, 20 Apr 2009 17:28:15 -0700
Xref: g2news1.google.com sci.electronics.design:77734
rec.radio.amateur.homebrew:2218
```

Tim Shoppa wrote:
> On Apr 20, 3:44 pm, John Larkin
> <jjSNIPlar...@highTHISlandtechnology.com> wrote:
>> On Mon, 20 Apr 2009 12:23:53 -0700 (PDT), Tim Shoppa
>>
>>
>>
>>

>>
>> <sho...@trailing-edge.com> wrote:
>>> On Apr 20, 1:10 pm, John Larkin
>>> <jjSNIPlar...@highTHISlandtechnology.com> wrote:
>>>> On Mon, 20 Apr 2009 09:50:05 -0700 (PDT), Tim Shoppa
>>>> <sho...@trailing-edge.com> wrote:
>>>>> A terminology question I suppose about the derivation of the term
>>>>> "Superheterodyne" more than anything else:
>>>>> Does the "Super" actually mean anything? Is there a Subheterodyne?
>>>>> Traditionally superhets mix a higher radio frequency down to a lower
>>>>> IF frequency, but certainly in the past few decades radios with IF's
>>>>> above the RF frequency have become very common in broadband
>>>>> applications, and those are still called superhets, not subhets :-).
>>>>> Google turns up a couple hits on subheterodyne but other than one that
>>>>> might mean "IF higher in frequency than RF" I don't recognize what
>>>>> they mean..
>>>>> I suspect that "Super" was more a marketing term than anything
>>>>> else :-).
>>>>> Tim N3QE
>>>> Supersonic.
>>>> http://en.wikipedia.org/wiki/Superheterodyne_receiver
>>> I saw that in Wikipedia too. I didn't believe it, it doesn't make
>>> sense. Why not just call all radio frequencies and IF frequencies
>>> above 20kHz "supersonic"? Then all radios (*) are supersonic, and
>>> we're back to super meaning nothing at all.
>> Possibly because heterodyne receivers mixed to sonic frequencies.
>
> I didn't really trust Wikipedia on this (it uses unusual language to
> talk about perfectly conventional subjects) but I did find my December
> 1922 QST, and it says (page 11):
>

Wow! I didn't know you were this old.

[...]

--
SCNR, Joerg

http://www.analogconsultants.com/

"gmail" domain blocked because of excessive spam.
Use another domain or send PM.

From 7364442620563240426
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: "Phil Allison" <philallison@tpg.com.au>

Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Tue, 21 Apr 2009 11:05:46 +1000
Lines: 39
Message-ID: <754kfcF1691ciU1@mid.individual.net>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
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Cancel-Lock: sha1:Mae1O1Ut2Jv3Te2+zzNhQ0roUpw=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Xref: g2news2.google.com sci.electronics.design:92468
rec.radio.amateur.homebrew:2516

"Tim Shoppa"

>
>A terminology question I suppose about the derivation of the term
> "Superheterodyne" more than anything else:
>
> Does the "Super" actually mean anything?

** Refers to the term " supersonic frequency " - the general name for any frequency between the upper limit of the audible range (20kHz) and the lower limit of common radio transmission frequencies or "long waves" at about 150kHz.

> Is there a Subheterodyne?

** No.

> Traditionally superhets mix a higher radio frequency down to a lower
> IF frequency, but certainly in the past few decades radios with IF's
> above the RF frequency have become very common in broadband
> applications, and those are still called superhets, not subhets :-).

** The name now refers to any receiver that involves a frequency changer stage prior to detection.

If you want to know the meaning of any term, you have to study how PEOPLE used it - both in the past and the present.

Only complete fools and radio hams study the words themselves in isolation and try to de-construct them.

..... Phil

```
From 2299600689874280274
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
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nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 20 Apr 2009 21:45:10 -0500
From: John Larkin <jjlarkin@highNOTlandTHIStechnologyPART.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Mon, 20 Apr 2009 19:45:10 -0700
Message-ID: <uncqu4dj507nvghk36og3koa9mfrq1k4rm@4ax.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
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Content-Transfer-Encoding: 8bit
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ax5+YA==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 4030
Xref: g2news1.google.com sci.electronics.design:77779
rec.radio.amateur.homebrew:2220
```

On Mon, 20 Apr 2009 13:57:26 -0700 (PDT), Tim Shoppa
<shoppa@trailing-edge.com> wrote:

```
>On Apr 20, 3:44�pm, John Larkin
><jjSNIPlar...@highTHISlandtechnology.com> wrote:
>> On Mon, 20 Apr 2009 12:23:53 -0700 (PDT), Tim Shoppa
>>
>>
>>
>>
>>
```

```
>> <sho...@trailing-edge.com> wrote:
>> >On Apr 20, 1:10�pm, John Larkin
>> ><jjSNIPlar...@highTHISlandtechnology.com> wrote:
>> >> On Mon, 20 Apr 2009 09:50:05 -0700 (PDT), Tim Shoppa
>>
>> >> <sho...@trailing-edge.com> wrote:
>> >> >A terminology question I suppose about the derivation of the term
>> >> >"Superheterodyne" more than anything else:
>>
>> >> >Does the "Super" actually mean anything? Is there a Subheterodyne?
>>
>> >> >Traditionally superhets mix a higher radio frequency down to a lower
>> >> >IF frequency, but certainly in the past few decades radios with IF's
>> >> >above the RF frequency have become very common in broadband
>> >> >applications, and those are still called superhets, not subhets :-).
>>
>> >> >Google turns up a couple hits on subheterodyne but other than one that
>> >> >might mean "IF higher in frequency than RF" I don't recognize what
>> >> >they mean..
>>
>> >> >I suspect that "Super" was more a marketing term than anything
>> >> >else :-).
>>
>> >> >Tim N3QE
>>
>> >> Supersonic.
>>
>> >>http://en.wikipedia.org/wiki/Superheterodyne_receiver
>>
>> >I saw that in Wikipedia too. I didn't believe it, it doesn't make
>> >sense. Why not just call all radio frequencies and IF frequencies
>> >above 20kHz "supersonic"? Then all radios (*) are supersonic, and
>> >we're back to super meaning nothing at all.
>>
>> Possibly because heterodyne receivers mixed to sonic frequencies.
>
>I didn't really trust Wikipedia on this (it uses unusual language to
>talk about perfectly conventional subjects) but I did find my December
>1922 QST, and it says (page 11):
>
>  In December, 1919, Major E. H. Armstrong gave
>  publicity to an indirect method of obtaining
>  short-wave amplification, called the Super-
>  Heterodyne. The idea is to reduce the incoming
>  frequency which may be, say 1,500,000 cycles
>  (200 meters), to some suitable super-audible
>  frequency which can be amplified efficiently, then
>  passing this current through a radio frequency
>  amplifier and finally rectifying and carrying on
>  to one or two stages of audio frequency
>  amplification.
>
>To me that sounds a little less awkward and more natural than the
```

>derivation that Wikipedia tries to draw.
>
>Tim N3QE

I did like the wiki bit about people using hundred-tube TRF receivers.

John

From 972778981420671305
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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flpi143.ffdc.sbc.com.POSTED!730e41d2!not-for-mail
From: hatespam@hatespam.com (hollow state)
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Message-ID: <49ed3857.41031686@news.houston.sbcglobal.net>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
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X-Newsreader: Forte Free Agent 1.21/32.243
Lines: 15
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X-Trace: flpi143.ffdc.sbc.com 1240283784 ST000 70.241.115.42 (Mon, 20 Apr 2009
23:16:24 EDT)
NNTP-Posting-Date: Mon, 20 Apr 2009 23:16:24 EDT
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Date: Tue, 21 Apr 2009 03:19:39 GMT
Xref: g2news2.google.com sci.electronics.design:92498
rec.radio.amateur.homebrew:2518

John Larkin <jjSNIPlarkin@highTHISlandtechnology.com> wrote:

>On Mon, 20 Apr 2009 09:50:05 -0700 (PDT), Tim Shoppa
><shoppa@trailing-edge.com> wrote:
>
>>A terminology question I suppose about the derivation of the term
>>"Superheterodyne" more than anything else:
>>
>>Does the "Super" actually mean anything? Is there a Subheterodyne?
>
>Supersonic.

So, if a basketball player from a certain team in Seattle were flying on the Concorde, and listening to a particular brand of antique radio, it'd be a supersonic SuperSonic's Superdyne supersonic heterodyne?

```
From 3931790182928402494
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X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!j18g2000prm.googlegroups.com!not-for-
mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Mon, 20 Apr 2009 21:07:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 79
Message-ID: <3a6dad5b-16e9-40fe-9acc-9fde88f0ba46@j18g2000prm.googlegroups.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
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Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 21 Apr 2009 04:07:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j18g2000prm.googlegroups.com; posting-host=207.200.116.11;
     posting-account=0Q4qJQoAAAB4vjIbnPnpY8JqAcYZv7Os
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3.0.04506),gzip(gfe),gzip(gfe)
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     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com sci.electronics.design:77794
rec.radio.amateur.homebrew:2222
```

On Apr 20, 9:50=EF=BF=BDam, Tim Shoppa <sho...@trailing-edge.com> wrote:

>A terminology question I suppose about the derivation of the term
>"Superheterodyne" more than anything else:
>
>Does the "Super" actually mean anything? Is there a Subheterodyne?

The heterodyning of two signals was barely known around 1902 to 1904 when very early entrepreneur-experimenter Reginald Fessenden was fooling around in his lab trying to improve the sensitivity of early coherer-type detectors. Fessenden tried mixing the output of a very low-power spark transmitter with his simple receiver and reported getting a clearer tone from a distant station. Fessenden was keen on making himself known so he wrote that up and it was published.

However, by 1906 the first audion tube was made and in a few years later, some production units were available for experimenters, namely a very young Armstrong...who went on to start gaining fame with his regenerative tube receiver. By 1918, Amstrong was now a Major in the US Army and stationed in Paris with WW One having stopped. Armstrong remembered the Fessenden experiment and remembered the 'heterodyning' process of mixing low-level RF signals with higher-level RF (the 'Local Oscillator' as it became known), getting two extra mixing products out of a 'mixer' stage (sum and difference of the two main input frequencies). By now academics had gone into the heterodyning process in more detail with at least 14 years between Fessenden's experiment and Armstrong's tube version.

Armstrong's patent application promised an equal-selectivity at any antenna-input frequency, something not possible with TRF receivers, narrower at lower frequencies, wider at higher ones.

>I suspect that "Super" was more a marketing term than anything
>else :-).

Might have been had there been ANY real "market" for radios back then. Of course, anything RF done with vacuum tubes beat the pants off any crystal detector and spark transmitter, so it was definitely a 'super' thing. :-)

Actually, Ed Armstrong had a battle with various nations on the patent for his superheterodyne, at least a year or two later with someone in England and another in France. Patent suits would continue to dog Armstrong until the end of his life, probably causing the depression that, in turn, caused him to suicide.
Just the same, Armstrong had the chutzpah to promote his ideas and he is truly the father of FM broadcasting allowing high-fidelity music to any FM receiver. He was no slouch in getting organized and promoting himself.

There's a whole lot of material on Edwin Howard Armstrong at several websites, reachable through members of the Radio Club of America, the oldest association (since 1909) and still going.

The three basic forms of modulation of a carrier (amplitude, frequency, phase) were worked out by John Carson of AT&T in 1915, before Armstrong got going on his 'superhet' idea. Whether or not Ed saw those is unknown, but Carson had them worked out already.
Those very early 'radio' experimenters, from academics to amateurs, were very very busy in the first two decades of 'radio' existance, going from essentially nothing to several somethings. 'Radio' stayed a fertile field for scientific-engineering innovation for three more decades, spurred into a couple quantum jumps during the World War II years.

Reginald Fessenden sort of faded into the woodwork after his famous "Christmas Eve" sound broadcast of 1906...using a spark transmitter whose antenna wire was modulated by a special carbon microphone! I doubt that any AM broadcast station ever tried to use that system since so it was an early curiosity in radio history. Armstrong's name spread and so did his inventions...not just the regen or superhet, but also the super-regenerative for high HF and into VHF (note the 'super' addition by the extra oscillation) and, of course, to FM broadcasting.

73, Len AF6AY

```
From 3644808202899498352
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X-Google-Thread: fc2a5,c81da0a04b8aae02
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X-Google-Language: ENGLISH,UTF8
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mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Mon, 20 Apr 2009 21:20:11 -0700 (PDT)
Organization: http://groups.google.com
Lines: 42
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Xref: g2news1.google.com sci.electronics.design:77796
rec.radio.amateur.homebrew:2223
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```
On Apr 20, 1:57=EF=BF=BDpm, Tim Shoppa <sho...@trailing-edge.com> wrote:
> On Apr 20, 3:44=EF=BF=BDpm, John Larkin
>
> didn't really trust Wikipedia on this (it uses unusual language to
>talk about perfectly conventional subjects) but I did find my December
>1922 QST, and it says (page 11):
>
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>  publicity to an indirect method of obtaining
>  short-wave amplification, called the Super-
>  Heterodyne. The idea is to reduce the incoming
>  frequency which may be, say 1,500,000 cycles
>  (200 meters), to some suitable super-audible
>  frequency which can be amplified efficiently, then
>  passing this current through a radio frequency
>  amplifier and finally rectifying and carrying on
>  to one or two stages of audio frequency
>  amplification.
>
>To me that sounds a little less awkward and more natural than the
>derivation that Wikipedia tries to draw.

Everyone ought to realize that "Wikipedia" data can be written by
ANYONE
and that the ARRL (who has always published QST) is NOT a technical-
expertise source.  Ed Armstrong's original patent on the
superheterodyne
can be found on the 'web in digitized image form.  Takes some
searching.

The word prefix 'super' generally refers to something 'better' than
the word
without that prefix.  Armstrong got a patent for the regenerative
detector,  He
also got a patent for a SUPER-Regenerative detector.

Think also SUPERman.  'Mercado' has already been mentioned, but folks
have neglected the MARKET...which expanded into SUPERmarket, generally
a chain of them under one label or another.

73, Len AF6AY
ex-ARRL member (for good reason)


From 4328874331841172465
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: "Phil Allison" <philallison@tpg.com.au>
```

Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Tue, 21 Apr 2009 15:05:01 +1000
Lines: 39
Message-ID: <7552fvF15d317U1@mid.individual.net>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com> <cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com> <64d06f97-d4a2-4917-a0cc-d79f91d3a428@m19g2000yqk.googlegroups.com> <q2kpu4dsupiopinf8qjuoi9o2thqgvr0mr@4ax.com> <9f7d92d4-041d-4f08-bfdd-01951381986c@k2g2000yql.googlegroups.com> <661f780c-eef9-4d70-92e1-628f97277533@k19g2000prh.googlegroups.com>
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Cancel-Lock: sha1:mv035qh7WN8DV5HlXTHo5jYvhag=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
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X-RFC2646: Format=Flowed; Original
Xref: g2news1.google.com sci.electronics.design:77802 rec.radio.amateur.homebrew:2224

"AF6AY"

> Everyone ought to realize that "Wikipedia" data can be written by
> ANYONE

** As are NG posts.

The difference being that Wikis are full of checkable references and are subject to on-going correction.

>The word prefix 'super' generally refers to something 'better' than
> the word without that prefix.

** So this radio ham clot has no idea what the origin of the term is really is (although it has been posted) and is making the classic fuckwit BLUNDER of trying to de-cipher the meaning from the word alone.

>Think also SUPERman.

** And supercilious.

> 73, Len AF6AY
> ex-ARRL member (for good reason)

** Lunatics like Len are not welcome as members ?

..... Phil

From 4728786478891385037
X-Google-Thread: fc2a5,c21f234e2546f0aa
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for M67715 PA Module
Date: Tue, 21 Apr 2009 05:27:59 +0000
Organization: Bias Comms
Lines: 15
Message-ID: <7553pdF1681daU1@mid.individual.net>
References: <69CdnYFqo8lXAXfUnZ2dnUVZ_qadnZ2d@bright.net> <J7GGl.28768$j7.491748@news.indigo.ie> <-8qdnccp9pMnXXHUnZ2dnUVZ8g-dnZ2d@pipex.net>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net 2KrHZjRDGxGKAwpufoowHwTzM8nGcJ7a8DqpSxqWT6Y9hJuyKZ
Cancel-Lock: sha1:FIYCmgWfSxVMJ6xFljQwadvDMwU=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:2225

Highland Ham wrote:

> Another possible source is Mainline Electronics : PO Box 235
> Leicester LE2 9SH - England ,UK
> tel : +44 116 277 7648 ; Fax +44 116 247 7551
> http://mainline-group.com/
>

They are *unbelievably* expensive! I presume that all their coil winding wire is gold!

> They also have a 'surplus department'

... Not listed on their appalling website!

Bob

From -8206531353015692126
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
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From: Greegor <Greegor47@gmail.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Mon, 20 Apr 2009 23:02:59 -0700 (PDT)
Organization: http://groups.google.com
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rec.radio.amateur.homebrew:2226

What specifically are your complaints with this Wiki ?

http://en.wikipedia.org/wiki/Superheterodyne_receiver

Superheterodyne receiver
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A 5-tubes superhet receiver made in Japan about 1955.In electronics, the superheterodyne receiver (also known as the supersonic heterodyne receiver, or by the abbreviated form superhet) is a receiver which uses the principle of frequency mixing or heterodyning to convert the received signal to a lower (sometimes higher) "intermediate" frequency, which can be more conveniently processed than the original carrier frequency. Virtually all modern radio and TV receivers use the Superheterodyne principle.

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[edit] History

Two section variable capacitor, used in superhet receiverThe word heterodyne is derived from the Greek roots hetero- "different", and -dyne "power". The original heterodyne technique was pioneered by Canadian inventor-engineer Reginald Fessenden but was not pursued far because local oscillators were not very stable at the time.[1]

Later, the superheterodyne (superhet) principle was conceived in 1918 by Edwin Armstrong during World War I, as a means of overcoming the deficiencies of early vacuum triodes used as high-frequency amplifiers in radio direction finding (RDF) equipment. Unlike simple radio communication, which only needs to make transmitted signals audible, RDF requires actual measurements of received signal strength, which necessitates linear amplification of the actual carrier wave.

In a triode RF amplifier, if both the plate and grid are connected to resonant circuits tuned to the same frequency, stray capacitive coupling between the grid and the plate will cause the amplifier to go into oscillation if the stage gain is much more than unity. In early designs, dozens (in some cases over 100) low-gain triode stages had to be connected in cascade to make workable equipment, which drew enormous amounts of power in operation and required a team of maintenance engineers. The strategic value was so high, however, that the British Admiralty felt the high cost was justified.

Armstrong had realized that if RDF could be operated at a higher frequency, it would allow detection of enemy shipping much more effectively, but at the time, no practical "short wave" amplifier existed, (defined then as any frequency above 500 kHz) due to the limitations of triodes of the day.

A "heterodyne" refers a beat or "difference" frequency produced when two or more radio frequency carrier waves are fed to a detector. The term was originally coined by Canadian Engineer Reginald Fessenden describing his proposed method of making Morse Code transmissions from an Alexanderson alternator type transmitter audible. With the Spark gap transmitters then in wide use, the Morse Code signal consisted of short bursts of a heavily modulated carrier wave which could be clearly heard as a series of short chirps or buzzes in the receiver's headphones.

The signal from an Alexanderson Alternator on the other hand, did not have any such inherent modulation and Morse Code from one of those would only be heard as a series of clicks or thumps. Fessenden's idea was to run two Alexanderson Alternators, one producing a carrier frequency 3kHz higher than the other. In the receiver's detector the two carriers would beat together to produce a 3kHz tone and so in the headphones the morse signals would then be heard as a series of 3kHz beeps. For this he coined the term "heterodyne" meaning "Generated by a Difference" (in frequency).

Later, when vacuum triodes became available, the same result could be achieved more conveniently by incorporating a "local oscillator" in the receiver, which became known as a "Beat Frequency Oscillator" or BFO. As the BFO frequency was varied, the pitch of the heterodyne could be heard to vary with it. If the frequences were too far apart the heterodyne became supersonic and hence no longert audible.

It had been noticed some time before that if a regenerative receiver was allowed to go into oscillation, other receivers nearby would suddenly start picking up stations on frequencies different from those that the stations were actually transmitted on. Armstrong (and others) eventually deduced that this was caused by a "supersonic heterodyne" between the station's carrier frequency and the oscillator frequency. Thus, for example, if a station was transmitting on 300 kHz and the oscillating receiver was set to 400 kHz, the station would be heard not only at the original 300 kHz, but also at 100 kHz and 700 kHz.

Armstrong realized that this was a potential solution to the "short wave" amplification problem, since the beat frequency still retained its original moduation, but on a lower carrier frequency. To monitor a frequency of 1500 kHz for example, he could set up an oscillator to say, 1560 kHz, which would produce a heterodyne of 60kHz, a frequency that could then be much more conveniently amplified by the triodes of the day. He termed this the "Intermediate Frequency" often abbreviated to "IF"

Early Superheterodyne receivers actually used IFs as low as 20 kHz, often based around the self-resonance of iron-cored transformers. This made them extremely susceptible to image frequency interference, but at the time, the main objective was sensitivity rather than selectivity. Using this technique, a small number triodes could be made to do work that formerly required dozens or even hundreds.

1920s commercial IF transformers actually look very similar to 1920s audio interstage coupling transformers, and were wired up in an almost identical manner. By the mid-1930s superhets were using much higher intermediate frequencies, (typically around 440-470kHz), using tuned coils very similar in construction to the aerial and oscillator coils. However the term "Intermediate Frequency Transformer" or "IFT" still persists to this day.

Modern receivers typically use a mixture of Ceramic Filters and/or Saw Resonators as well as traditional tuned-inductor IF transformers

Armstrong was able to put his ideas into practice quite quickly, and the technique was rapidly adopted by the military. However, it was less popular when commercial radio broadcasting began in the 1920s. There were many factors involved,but the main issues were the need for an extra tube for the oscillator, the generally higher cost of the receiver, and the level of technical skill required to operate it. For early domestic radios, Tuned RFs ("TRF"), also called the Neutrodyne, were much more popular because they were cheaper, easier for a non-technical owner to use, and less costly to operate. Armstrong eventually sold his superheterodyne patent to Westinghouse, who then sold it to RCA, the latter monopolizing the market for superheterodyne receivers until 1930.[2]

By the 1930s, improvements in vacuum tube technology rapidly eroded the TRF receiver's cost advantages, and the explosion in the number of broadcasting stations created a demand for cheaper, higher-performance receivers.

First, the development of practical indirectly-heated-cathode tubes allowed the mixer and oscillator functions to be combined in a single Pentode tube, in the so-called Autodyne mixer. This was rapidly followed by the introduction of low-cost multi-element tubes specifically designed for superheterodyne operation. These allowed the use of much higher Intermediate Frequencies (typically around 440-470kHz) which eliminated the problem of image frequency interference. By the mid-30s, for commercial receiver production the TRF technique was obsolete.

The superheterodyne principle was eventually taken up for virtually all commercial radio and TV designs.

[edit] Overview

The superhet receiver consists of three principle parts, the local oscillator, a mixer that mixes the local oscillator's signal with the received signal, and a tuned amplifier.

Reception starts with an antenna signal, optionally amplified, including the frequency the user wishes to tune, fd. The local oscillator is tuned to produce a frequency close to fd, fLO. The received signal is mixed with the local oscillator's, producing four frequencies in the output; the original signal, the original fLO, and the two new frequencies fd+fLO and fd-fLO. The output signal also generally contains a number of undesirable mixtures as well. (These are 3rd- and higher-order intermodulation products. If the mixing were performed as a pure, ideal multiplication, the original fd and fLO would also not appear; in practice they do appear because mixing is done by a nonlinear process that only approximates true ideal multiplication.)

The amplifier portion of the system is tuned to be highly selective at a single frequency, fIF. By changing fLO, the resulting fd-fLO (or fd +fLO) signal can be tuned to the amplifier's fIF. In typical amplitude modulation ("AM radio" in the U.S., or MW) receivers, that frequency is 455 kHz; for FM receivers, it is usually 10.7 MHz; for television, 45 MHz. Other signals from the mixed output of the heterodyne are filtered out by the amplifier.

[edit] Design and its evolution

The diagram below shows the basic elements of a single conversion superhet receiver. The essential elements of a local oscillator and a mixer followed by a fixed-tuned filter and IF amplifier are common to all superhet circuits. Cost-optimized designs may use one active device for both local oscillator and mixer--this is sometimes called a "converter" stage. One such example is the pentagrid converter.

The advantage to this method is that most of the radio's signal path has to be sensitive to only a narrow range of frequencies. Only the front end (the part before the frequency converter stage) needs to be sensitive to a wide frequency range. For example, the front end might need to be sensitive to 1-30 MHz, while the rest of the radio might need to be sensitive only to 455 kHz, a typical IF. Only one or two tuned stages need to be adjusted to track over the tuning range of the receiver; all the intermediate-frequency stages operate at a fixed frequency which need not be adjusted.

To overcome obstacles such as image response, multiple IF stages are used, and in some case multiple stages with two IFs of different values. For example, the front end might be sensitive to 1-30 MHz, the first half of the radio to 5 MHz, and the last half to 50 kHz. Two frequency converters would be used, and the radio would be a "Double Conversion Super Heterodyne"--a common example is a television receiver where the audio information is obtained from a second stage of intermediate frequency conversion. Occasionally special-purpose receivers will use an intermediate frequency much higher than the signal, in order to obtain very high image rejection.

Superheterodyne receivers have superior characteristics to simpler receiver types in frequency stability and selectivity. They offer much better stability than Tuned radio frequency receivers (TRF) because a tuneable oscillator is more easily stabilized than a tuneable amplifier, especially with modern frequency synthesizer technology. IF filters can give much narrower passbands at the same Q factor than an equivalent RF filter. A fixed IF also allows the use of a crystal filter when exceptionally high selectivity is necessary. Regenerative and super-regenerative receivers offer better sensitivity than a TRF receiver, but suffer from stability and selectivity problems.

In the case of modern television receivers, no other technique was able to produce the precise bandpass characteristic needed for vestigial sideband reception, first used with the original NTSC system introduced in 1941. This originally involved a complex collection of tuneable inductors which needed careful adjustment, but since the early 1980s these have been replaced with precision electromechanical surface acoustic wave (SAW) filters. Fabricated by precision laser milling techniques, SAW filters are much cheaper to produce, can be made to extremely close tolerances, and are extremely stable in operation.

Microprocessor technology allows replacing the superheterodyne receiver design by a software defined radio architecture, where the IF processing after the initial IF filter is implemented in software. This technique is already in use in certain designs, such as very low cost FM radios incorporated into mobile phones where the necessary microprocessor is already present in the system.

Radio transmitters may also use a mixer stage to produce an output frequency, working more or less as the reverse of a superheterodyne receiver.

[edit] Drawbacks

Drawbacks to the superheterodyne receiver include interference from signal frequencies close to the intermediate frequency. To prevent this, IF frequencies are generally controlled by regulatory authorities, and this is the reason most receivers use common IFs. Examples are 455 kHz for AM radio, 10.7 MHz for FM, and 38.9 MHz (Europe) 45 MHz (US) for television.

(For AM radio, a variety of IFs have been used, but most of the Western World settled on 455kHz, in large part because of the almost universal transition to Japanese-made ceramic resonators which used the US standard of 455kHz. In more recent digitally tuned receivers, this was changed to 450kHz as this figure simplifies the design of the synthesizer circuitry).

Additionally, in urban environments with many strong signals, the signals from multiple transmitters may combine in the mixer stage to interfere with the desired signal.

[edit] High-side and low-side injection

The amount that a signal is down-shifted by the local oscillator depends on whether its frequency f is higher or lower than fLO. That is because its new frequency is |f - fLO| in either case. Therefore, there are potentially two signals that could both shift to the same fIF one at f = fLO + fIF and another at f = fLO - fIF. One or the other of those signals, called the image frequency, has to be filtered out prior to the mixer to avoid aliasing. When the upper one is filtered out, it is called high-side injection, because fLO is above the frequency of the received signal. The other case is called low-side injection. High-side injection also reverses the order of a signal's frequency components. Whether or not that actually changes the signal depends on whether it has spectral symmetry or not. The reversal can be undone later in the receiver, if necessary.

[edit] Image Frequency (fimage)

One major disadvantage to the superheterodyne receiver is the problem of image frequency. In heterodyne receivers, an image frequency is an undesired input frequency equal to the station frequency plus twice the intermediate frequency. The image frequency results in two stations being received at the same time, thus producing interference. Image frequencies can be eliminated by sufficient attenuation on the incoming signal by the RF amplifier filter of the superheterodyne receiver.

Early Autodyne receivers typically used IFs of only 150kHz or so, as it was difficult to maintain reliable oscillation if higher frequencies were used. As a consequence, most Autodyne receivers needed quite elaborate antenna tuning networks, often involving double-tuned coils, to avoid image interference. Later superhets used tubes especialy designed for oscillator/mixer use, which were able work reliably with much higher IFs, reducing th eproblem of image interference and so allowing simpler and cheaper aerial tuning circuitry.

[edit] Local oscillator radiation

It is difficult to keep stray radiation from the local oscillator below the level that a nearby receiver can detect. This means that there can be mutual interference in the operation of two or more superheterodyne receivers in close proximity. In espionage, oscillator radiation gives a means to detect a covert receiver and its operating frequency.

Further information: Electromagnetic compatibility

[edit] Local oscillator sideband noise

Local oscillators typically generate a single frequency signal that has negligible amplitude modulation but some random phase modulation. Either of these impurities spreads some of the signal's energy into sideband frequencies. That causes a corresponding widening of the receiver's frequency response, which would defeat the aim to make a very narrow bandwidth receiver such as to receive low-rate digital signals. Care needs to be taken to minimize osicllator phase noise, usually by ensuring that the oscillator never enters a non-linear mode.

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"Greegor" <Greegor47@gmail.com>

> What specifically are your complaints with this Wiki ?

** What a fucking stupid thing to do -   post an entire bloody 180KB Wiki
!!!

Even worse, the post is nor directed to anyone.

Greegor   = MORON !!

..... Phil

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rec.radio.amateur.homebrew:2228

Joerg wrote:

> John Larkin wrote:
>
>> On Mon, 20 Apr 2009 12:36:12 -0700, Joerg
>> <notthisjoergsch@removethispacbell.net> wrote:
>>
>>> Tim Shoppa wrote:
>>>
>>>> A terminology question I suppose about the derivation of the term
>>>> "Superheterodyne" more than anything else:
>>>>
>>>> Does the "Super" actually mean anything? Is there a Subheterodyne?
>>>>
>>>> Traditionally superhets mix a higher radio frequency down to a lower
>>>> IF frequency, but certainly in the past few decades radios with IF's
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```

>>>> applications, and those are still called superhets, not subhets :-).
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>>>> I suspect that "Super" was more a marketing term than anything
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>>>>
>>> If you want to file a new patent for old stuff you could try
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>>> Oh wait, call it hyperheterodyne, has more glitz. Just like the
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>>
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From -346133062889195198
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"Robert Baer" <robertbaer@localnet.com> wrote in message
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> Joerg wrote:
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>> John Larkin wrote:
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>   Bit shift?

Yes, but 2x zero is still zero... :)

M

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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 21 Apr 2009 12:34:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k38g2000yqh.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB5;
     .NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com sci.electronics.design:92544
rec.radio.amateur.homebrew:2527
```

On Apr 21, 1:05=A0am, "Phil Allison" <philalli...@tpg.com.au> wrote:
> "AF6AY"
>
> > Everyone ought to realize that "Wikipedia" data can be written by
> > ANYONE

>
> ** As are NG posts.
>
> The difference being that Wikis are full of checkable references and are
> subject to on-going correction.

The best Wikipedia articles are often filled with good checkable references, but other times it sounds like they were written in a foreign language and translated into English and have few (if any) good references.

Just because a Wikipedia entry isn't well-written or sounds awkward doesn't mean it's wrong, but I will often reject what I don't like in the poorly written ones.

Somewhere there's a bunch of people who spend their time correcting and improving Wikipedia entries, and I think overall they are doing a good job, but that doesn't mean the result is always devoted to my interests. Just like anything else in this world, it's got workers and it's got managers and they aren't always devoting their attention to the little corners of arcania that I live in.

It's not that the Encyclopedia Britannica is perfect either. I can open it up to the very few subjects that I happen to be expert on and find over-simplifications and a lack of cites to what I consider to be the best references. That doesn't mean it's out-and-out wrong, just that it's an Encyclopedia, and by definition they can't do anything but touch on the surface of all the interesting stuff in the world.

Of course in academia I got real used to opening a journal and instead of reading the articles, to go straight to the references and see if they are quoting one of my articles :-). Breadth vs specialization, can't pick them both.

Tim.

From -6361678842112252198
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: "Phil Allison" <philallison@tpg.com.au>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Tue, 21 Apr 2009 22:49:28 +1000
Lines: 62
Message-ID: <755tmqF16oherU1@mid.individual.net>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com> <cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com> <64d06f97-d4a2-4917-a0cc-d79f91d3a428@m19g2000yqk.googlegroups.com>

```
<q2kpu4dsupiopinf8qjuoi9o2thqgvr0mr@4ax.com> <9f7d92d4-041d-4f08-
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eef9-4d70-92e1-628f97277533@k19g2000prh.googlegroups.com>
<7552fvF15d317U1@mid.individual.net> <a716def6-9cd2-48a8-b202-
e408e7900ce1@k38g2000yqh.googlegroups.com>
X-Trace: individual.net OmwbwHA9WolUBcb8KT3zUwxLZvxTSpfDD6rp+47XCb8nwTJjOG
Cancel-Lock: sha1:3Bn/0Sac9nEb7knI1mEw5lET7yw=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Xref: g2news1.google.com sci.electronics.design:77836
rec.radio.amateur.homebrew:2231
```

"Tim Shoppa"
"Phil Allison"

> > Everyone ought to realize that "Wikipedia" data can be written by
> > ANYONE
>
> ** As are NG posts.
>
> The difference being that Wikis are full of checkable references and are
> subject to on-going correction.

The best Wikipedia articles are often filled with good checkable references, but other times it sounds like they were written in a foreign language and translated into English

** Only indicates your lack of comprehension.

Just because a Wikipedia entry isn't well-written or sounds awkward

** You are irrationally obsessed with style over content.

Mostly likely because you cannot comprehend the content.

Somewhere there's a bunch of people who spend their time correcting and improving Wikipedia entries, and I think overall they are doing a good job, but that doesn't mean the result is always devoted to my interests.

** What a revolting, pompous little narcissist you are - Tim.

Just like anything else in this world, it's got workers and it's got managers and they aren't always devoting their attention to the little corners of arcania that I live in.

** I was much too kind earlier ....

It's not that the Encyclopedia Britannica is perfect either. I can open it up to the very few subjects that I happen to be expert on and find over-simplifications and a lack of cites to what I consider to be the best references.

** Mere narcissism has just turned into full blown ego-mania.

Of course in academia I got real used to opening a journal and instead of reading the articles, to go straight to the references and see if they are quoting one of my articles :-).

** Wot a nauseating computer geek puke.

......   Phil

```
From -2539090754531994239
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!k41g2000yqh.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Tue, 21 Apr 2009 06:23:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <a100ab99-e376-4fbd-9950-6b811457c392@k41g2000yqh.googlegroups.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
     <3a6dad5b-16e9-40fe-9acc-9fde88f0ba46@j18g2000prm.googlegroups.com>
     <997d4b3b-1a92-4136-9d2e-81bc210f1c7b@e21g2000yqb.googlegroups.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240320225 5845 127.0.0.1 (21 Apr 2009 13:23:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 21 Apr 2009 13:23:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k41g2000yqh.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB5;
.NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com sci.electronics.design:77840
rec.radio.amateur.homebrew:2232

On Apr 21, 2:02=A0am, Greegor <Greego...@gmail.com> wrote:
> What specifically are your complaints with this Wiki ?
>
> http://en.wikipedia.org/wiki/Superheterodyne_receiver

A 180 Kbyte article about a technology developed in the 1910's, yet the oldest reference is to a textbook from 1996 aimed at freshman or sophomore EE students of the 90's. More original references would have gone a long way, especially to the patents and journals of the 1910's and 1920's.

Don't get me wrong, it's a kinda nice textbook that they reference, as I realize that by the 90's many EE programs had been so entirely taken over by VLSI and CAD techniques and the particular textbook fills a very important niche in education. It isn't the textbook that I learned about radio from but I see how it fits the modern times well. (I prefer Terman or Clarke&Hess but those guys weren't around in 1918 either.).

A smaller point, is that the language sounds a lot like it was written in a language other than English and then translated. In principle this isn't fundamentally bad, it's just that a lot of the terminology used sounds very awkward. I think that's fine if they reference 80 year old patents using the same language, but they don't.

Tim.

From -1066940132495029476
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!n8g2000vbb.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Tue, 21 Apr 2009 06:26:25 -0700 (PDT)
Organization: http://groups.google.com
Lines: 12
Message-ID: <ff1ed7d5-0843-4747-9ff8-79cf65f62664@n8g2000vbb.googlegroups.com>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com> <64d06f97-d4a2-4917-a0cc-d79f91d3a428@m19g2000yqk.googlegroups.com>
<q2kpu4dsupiopinf8qjuoi9o2thqgvr0mr@4ax.com> <9f7d92d4-041d-4f08-bfdd-01951381986c@k2g2000yql.googlegroups.com>

```
     <661f780c-eef9-4d70-92e1-628f97277533@k19g2000prh.googlegroups.com>
     <7552fvF15d317U1@mid.individual.net> <a716def6-9cd2-48a8-b202-
e408e7900ce1@k38g2000yqh.googlegroups.com>
     <755tmqF16oherU1@mid.individual.net>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1240320385 6389 127.0.0.1 (21 Apr 2009 13:26:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 21 Apr 2009 13:26:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n8g2000vbb.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB5;
     .NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com sci.electronics.design:77841
rec.radio.amateur.homebrew:2233

On Apr 21, 8:49=A0am, "Phil Allison" <philalli...@tpg.com.au> wrote:
> ** =A0Only indicates your lack of comprehension.
> ** You are irrationally obsessed with style over content.
> ** What a revolting, pompous little narcissist you are =A0- =A0Tim.
> ** =A0I was much too kind earlier ....
> ** =A0Mere narcissism has just turned into full blown ego-mania.
> ** =A0Wot a nauseating computer geek puke.

There's a thin line between ignorance and arrogance, Phil. I have
erased that line.

Tim.



From 5187322823555462939
X-Google-Thread: 112d1e,c81da0a04b8aae02
X-Google-Thread: fc2a5,c81da0a04b8aae02
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.litech.org!not-for-
mail
From: mikea <mikea@mikea.ath.cx>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: If Superheterodyne, why not Subheterodyne?
Date: Tue, 21 Apr 2009 08:27:24 -0500
Organization: Litech Systems Design
Lines: 41
Sender: mikea@mikea.ath.cx
Approved: YouBetcherArse@example.com
Message-ID: <s6u0c6-b4n1.ln1@mikea.ath.cx>
References: <aeb0ddac-6f08-4d5b-8463-ad34a71e27de@p11g2000yqe.googlegroups.com>
<cuapu493arqnk5disoe9p66dqlhtmp56t2@4ax.com> <64d06f97-d4a2-4917-a0cc-
d79f91d3a428@m19g2000yqk.googlegroups.com>
```

<q2kpu4dsupiopinf8qjuoi9o2thqgvr0mr@4ax.com> <9f7d92d4-041d-4f08-
bfdd-01951381986c@k2g2000yql.googlegroups.com> <661f780c-
eef9-4d70-92e1-628f97277533@k19g2000prh.googlegroups.com>
<7552fvF15d317U1@mid.individual.net>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1240320496 23189 70.164.65.62 (21 Apr 2009 13:28:16 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Tue, 21 Apr 2009 13:28:16 +0000 (UTC)
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (FreeBSD/7.1-RELEASE (i386))
Xref: g2news1.google.com sci.electronics.design:77842
rec.radio.amateur.homebrew:2234

In rec.radio.amateur.homebrew Phil Allison <philallison@tpg.com.au> wrote:
>
> "AF6AY"
>
>
>> Everyone ought to realize that "Wikipedia" data can be written by
>> ANYONE
>
> ** As are NG posts.
>
> The difference being that Wikis are full of checkable references and are
> subject to on-going correction.
>
>
>>The word prefix 'super' generally refers to something 'better' than
>> the word without that prefix.
>
>
> ** So this radio ham clot has no idea what the origin of the term is really
> is (although it has been posted) and is making the classic fuckwit
> BLUNDER of trying to de-cipher the meaning from the word alone.
>
>
>
>>Think also SUPERman.
>
> ** And supercilious.
>
>
>> 73, Len AF6AY
>> ex-ARRL member (for good reason)
>
>
> ** Lunatics like Len are not welcome as members ?

Killfile, Phil. Phil, killfile.

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

```
From 2604887352098841720
X-Google-Thread: fc2a5,2e351383df16bcb9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!e25g2000vbe.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Boys Book Of Radio And Electronics - Destroyed!
Date: Fri, 27 Mar 2009 06:52:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 74
Message-ID: <c5abd0cd-e5c6-4f2a-b119-6ff2ea3c6c6f@e25g2000vbe.googlegroups.com>
References: <nvqyl.484582$Mh5.400664@bgtnsc04-news.ops.worldnet.att.net>
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NNTP-Posting-Date: Fri, 27 Mar 2009 13:52:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e25g2000vbe.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2382

On Mar 27, 7:57=A0am, "RadioGuy" <nos...@nospam.com> wrote:
> "dave" <d...@dave.dave> wrote in message
>
> news:49cc1a4f$0$31214$bd467cd0@news.dslextreme.com...
>
>
>
>
>
> > John Ferrell wrote:
> >> On Wed, 25 Mar 2009 13:40:35 GMT, "RadioGuy" <nos...@nospam.com>
> >> wrote:
>
> >>> Childrens books (including Alfred Morgan's) before 1985 are being
> >>> destroyed due to lead content in the ink as per Consumer Product Safe=
ty
> >>> Commission ruling.
>
> >>> Please review article:http://www.city-journal.org/2009/eon0212wo.html
```

>
> >>> RG
> >> You need to read "Fahrenfeit 451" =A0by Ray Bradbury I think.
>
> >> John Ferrell W8CCW
>
> > It was two books. =A0Boys' [First] Book of Radio and Electronics and
>
> > Boys' Second Book of Radio and Electronics.
>
> > I learned a lot more from The Radio Amateur's Handbook
>
> I wonder... what's to stop them from going beyond children books? =A0Besi=
des,
> what is a children's bookhttp://en.wikipedia.org/wiki/Children's_booksI
> never did find a suitable definition and for the precocious child it coul=
d
> be anything. =A0And for that matter, what about any pre-1985 book in the
> vicinity of children. =A0I can see how can this develop over time... hand=
lers
> of books will slowly avoid any pre-1985 books from fear of liability
> suits---perhaps even history books printed in the 1940's. =A0Consider the
> overall results 50 years from now.
>
> Yes... I went through the first, second, third and fourth 'Boy's Book'. =
=A0I
> built the crystal sets, one transistor CK722 amplifier, one tube amplifie=
r
> and Geiger Counter. =A0I wish I could afford collecting those old Morgan =
books
> but at $100 or more each forget it. =A0Then there were those countless AR=
RL
> publications from QST to the 'Handbook' with those big B&W photos of
> goregous point-to-point wiring with lead ink that I would drool over for
> countless hours.
>
> With regard to '451', the theme of censorship has appeared in many novels=
 in
> widely different plots... but they all express censorship and attempt the
> control of thoughts and ideas. =A0The CPSC ruling is a disturbing precede=
nt!
>
> Perhaps the digitizing of books may be a safe recourse---but who can be
> trusted to make the selections of what to digitize, who will maintain and
> oversee electronic libraries?
>
> RG- Hide quoted text -
>
> - Show quoted text -

I had all the Boy's Books, I bought them from a local library for $.50
a piece. unfortunately they were all lost along with 50s and 60s ARRL
handbooks when my rental storage got brooken into.

Jimmie

```
From -8152466966218746430
X-Google-Thread: fc2a5,3a78cb4828ccc76a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!m36g2000vbp.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Nuvistor TV preamp mod
Date: Fri, 27 Mar 2009 07:37:59 -0700 (PDT)
Organization: http://groups.google.com
Lines: 65
Message-ID: <1fa6b8fd-e7bc-4086-a7ec-d10034d599de@m36g2000vbp.googlegroups.com>
References: <b8ab8090-d338-4dfd-8857-6c49a4ec75a1@c36g2000yqn.googlegroups.com>
     <49c1b2d6$0$4955$9a6e19ea@unlimited.newshosting.com> <fca765c0-750c-48fc-
aed7-6ecfc20d83c8@e35g2000yqc.googlegroups.com>
     <1b2b82c0-a044-4a64-94b7-b380ec118c23@l22g2000vba.googlegroups.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1238164679 6881 127.0.0.1 (27 Mar 2009 14:37:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 27 Mar 2009 14:37:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m36g2000vbp.googlegroups.com; posting-host=76.226.138.86;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.0.6)
     Gecko/2009020911 Ubuntu/8.04 (hardy) Firefox/3.0.6,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2383

On Mar 27, 8:22=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> On Mar 27, 3:59=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
>
>
> > On Mar 18, 10:50=A0pm, RFI-EMI-GUY <Rhyol...@NETTALLY.COM> wrote:
>
> > > JIMMIE wrote:
> > > > I have 3 mast mounted nuvistor pre amps less power supplies. I was
> > > > looking for information on these to convert them to use on the 6 an=
d 2
> > > > meter =A0and 70cm ham bands. I may still have a power supply around=
 but
> > > > as of yet I havent been able to find it. The pre amps are mount in =
a
> > > > somewhat egg shaped plastic container with twin lead connections on
> > > > them. Im not sure of the manufacturer. Schematics on the amplifiers
```

> > > > and power supplies would be nice. Directions on doing the mod would=
 be
> > > > great. There are plans for ham band nuvistor preamps around so if I
> > > > could figure out what I have it shouldnt be that difficult to conve=
r
> > > > it to what I want. Besides that it will give me something to do wit=
h
> > > > these old 6cw4s.
>
> > > > Jimmie
>
> > > You would do good to find a 70's or earlier ARRL handbook. There were
> > > many articles about Nuvistors.
>
> > > --
> > > Joe Leikhim K4SAT
> > > "The RFI-EMI-GUY"=A9
>
> > > "Use only Genuine Interocitor Parts" Tom Servo =A0;-P
>
> > Well I got a little 2M nuvistor pre-amp put together last night. Im
> > not sure of the noise figure of the amp but according to my S meter it
> > must have about at least 20 db of gain, maybe 30.
>
> > I will have to take it into work were I have the =A0test equipment to
> > check it out better.
>
> > Jimmie- Hide quoted text -
>
> > - Show quoted text -
>
> Anyone know what kind of noise figure I could expect out of a 6cw4
> nuvistor preamp. I only saw one reference and it mentioned 3db but
> mostly all the other references just talked about gain.
>
> Jimmie

Hey OM

The reason you see those high noise figures: Carbon comp resistors
being used in tube circuits. The gain of the preamp amplifies the
noise of the carbon comp resistors. Best is to use metal film
resistors much lower noise.
And squeezing 20db out of a 6cw4 that has only gain of around 64 or
about 14 db is quite the feat.

73 OM
de n8zu

From 8653052983216575648
X-Google-Thread: fc2a5,3a78cb4828ccc76a
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flpi143.ffdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
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     <925d16ee-c235-44ed-ac1c-4679c400f740@p42g2000prp.googlegroups.com>
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Date: Fri, 27 Mar 2009 08:06:23 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2384
```

AF6AY wrote:

> On Mar 24, 3:44�pm, Joerg <notthisjoerg...@removethispacbell.net>
> wrote:
>
>> Full disclosure: I am also an IEEE member. However, despite numerous
>> efforts by myself and others they could not even get the virtual...
>
> You seem frustrated and are Venting about something that isn't even
> remotely "homebrew." When you pick up on a signature, that is a sure
> sign you are spoiling for some kind of Fight. <shrug>
>

Not a pick of a fight, I am not that kind of guy. Has in part to do with
my other affiliation (church). I just found it a bit strange when you
blasted the ARRL and at the end in the sig line listed IEEE as a
professional organization. Which I do not see quite that way.

> I've been getting paid for moving electrons around, guiding fields and
> waves for 56 years. I've been playing around with a slightly
> different
> area of electronics for 62 years as a pure hobbyist, not seeking some
> kind of fame or notoriety or anything else, just for the fascination
> of moving electrons the way I'd like them to move. I don't pretend to
> be an "expert" in electronics or radio...just one who has been around
> both the electronics industry (in rather different areas, not always
> of my own chosing) and hobby electronics for a rather long time. I'd
> thought that more people might be interested in some different ways to
> do the same circuit tasks, therefore I suggested those from time to
> time in places such as forums. Obviously not. Too many have THEIR
> "best way" on things and what THEY do is "so much better." Sigh...
>
> My enthusiasm for electronics got the better of me and, after a long
> absence of not bothering to post anything in rec.radio.homebrew, I
> brought up RELAYS as an ALTERNATE way of switching RF circuits at HF.
> I will apologize for that since I can (obviously) see that some have
> their "pet" ways of doing things and aren't open to suggestions.

Not a pet way. All I wanted to do is show the pitfalls because newer hobbysits need to be aware of those. For high-powered stuff I also use relays, just as you do.

> ------------------
> I became a member of the IEEE late, in 1973. Dues-paying kind. Main
> reason was to add to my WORK knowledge...that which paid for my
> living.
> I did not go into it for any "benefits" package advantages because I
> had most such benefits already. I am not one to "fall" for
> professional Advertising (I am a "hard sell" for all salespeople).
> Under IEEE association bylaws, Life Membership is achieved solely by
> tenure, no extra monies involved nor are accepted to achieve that.
> On reaching Life Membership, NO dues are required, full membership
> is free, and members get the informative membership magazine
> "Spectrum" free every month. It is a Professional organization
> because it is all about the Profession of electronics. ...

I wish it was professional all the way, not just partly. The last FAP mailer from them with the "professionality" level of a credit card solicitation came Friday. Well, at least it was useful to start the wood stove ;-)

> ... I regard
> myself as a "professional" for the simple reason of getting paid for
> work in that field, like that work, like that play (as a hobbyist)
> and have been doing it for over a half century. I've been fortunate
> (sometimes unfortunate) to work in several varied disciplines within
> electronics and got interested in those disciplines. Sometimes the

> different techniques could apply themselves to hobby activities and sometimes hobby experiments were useful in professional work. There never has been a clear-cut demarkation line of technology between avocational activies and occupational activities except as forced by certain groups within the overall activity.
>

That's a great career, when you can bring hobby experience into professional work. Same here, but only about 25 years pro work experience since my degree. Lots of homebrew electronics before that. However, I don't see this kind of cross-fertilization between hobby and professional life happen much in the next generation :-(

> You will notice a "callsign" in my signature, that of an Amateur Extra class callsign group assigned by the FCC. I did not bother with getting my first-ever amateur radio license until some time in January 2007 and then to pass all test elements on one Sunday afternoon on 25 February 2007. I did that for two reasons: I was able to do it (and had the chutzpah to do so); it was a convenience to have the least restrictions on operation in what MIGHT have been an enjoyable pasttime in my retirement (I still work in electronics but only on my terms (therefore not often) and not in "regular hours." I run into the SAME sort of "I SHOULD have done it <so-and-so>" in nearly every field of endeavor where there are CERTAIN ways that things "MUST be done."
>
> In a burst of enthusiasm, I joined the ARRL immediately after getting my federal amateur radio license grant (one cannot be a voting member without that grant according to League rules). That was another mistake I made. That AMATEUR organization membership is expiring at the end of March and I am not renewing. As a hobbyist, that AMATEUR membership has offered me almost NOTHING in return.

Ok, can't speak to that because I was a member in the German club (DARC). But ARRL did one great thing for me: Very low cost books, full of very useful technical information. Lots of stuff and antennas were built with the help of ARRL books.

> I have voiced my opinion on that AMATEUR organization in OTHER forums, to the FCC on amateur radio regulations, and enought that I don't wish to go into it here. Despite having started in big time HF communications 56 years ago, long-time amateurs consider me a "newbie," a "beginner in radio" and that is disheartening, taking away much of my interest in ALL electronics.
>

I remember that, in Germany call signs were issued in alphanumeric order (like non-vanity license plates in most states here) and some hams had the tendency of prejudice. Newer call sign ... aha, rookie. Which just wasn't true in many cases.

> In other forums NOT on amateur radio, I have been negatively criticized for being a member of certain organizations that the "expert" critics champion or dislike. For example, the ACM. the first professional association about computing worldwide. NOW, I see complaints about BENEFITS packages of the IEEE not meeting with certain individual's approval. I am not a follower nor an approver of Benefits Packages, nor a spokesperson of any kind for of those. ...

Just my humble opinion: If an organization can't get commercial products like FAP straight they ought to dump them and not keep them to make a penny. It's unprofessional, no matter what organization. And PL insurance is not a benefit, it's a paid commercial product that numerous members direly need in this case. Note the other thing I mentioned, much more important: Member forums, has to do with learning, helping others, exactly what also happens in a hobby. It ain't rocket science to set that up yet they blew it. Like you were with ARRL I was twice just about to ditch my IEEE membership but didn't at the last minute. Haven't given up hope yet, but I've learned that one has to be rather loud in the IEEE to be heard. It seems there are strict hierarchies that slow things down a lot. It should not be that way.

> ... There is very little in ANY Benefits Package that is of "benefit" in ANY homebrew electronics hobby activity. I will emphasize HOMEBREW. Radio. Electronics.
>

Right. Once you are retired, or mostly retired in your case, and insured by Medicare none of that insurance stuff matters anymore. But it does matter to the majority of members who aren't there yet. My advice to them would be: If you can't offer it as a decent product, don't offer it at all. Just like I (and probably you) would not want to be engaged in an engineering project we didn't believe in.

> For all my time spent working with, or being hobbyist in, electronics, many and varied "experts" have TOLD me in no uncertain terms that "This is the way 'we' do it in <activity>." I MUST do it as those "experts" say. Sorry, but having been IN the activity for a long time and watching the technology CHANGE, to have NEW ways and components introduced since 1947, I have to throw that didactic insistence (indeed a polemical philosophy) in the dumpster. If someone finds/discovers/innovates something while engaged in hombrewing some radio or other electronics, something NOT normally done but still follows established laws of physics, then it should be, in my viewpoint, be presented for other hobbyists. In the spirit of that being a possible useful thing that others might be able to use in their hobby activity. It should NOT be given in

```
> terms of "look what *I* did" as some claim to "expertise."  It
> might be USEFUL to others in their hobby work.  I feel that anyone
> who wants to discuss matters totally different than a forum's
> intended sphere of interest go find the appropriate forum to vent.
>
> I've learned one more thing in Life here.  Do not indicate one's
> affiliation or pride or other personal feelings in a
> "signature" of a posting...others do not like that. ...


Should be ok to do that. But people will see it and might react to it ;-)


>                                                 ... No matter,
> my amateur radio license callsign can get my legal address.
>

Mine's DK9JK. Not active at all right now though. Once I retire I plan
to sit for the US license exam just like you did. Probably will start
back out on 15m and 40m, CW and SSB, and maybe some of the newer modes.

--
73, Joerg


From 2276482342686382086
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mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Nuvistor TV preamp mod
Date: Fri, 27 Mar 2009 08:10:01 -0700 (PDT)
Organization: http://groups.google.com
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On Mar 27, 10:37=A0am, raypsi <RBorow...@gmail.com> wrote:
> On Mar 27, 8:22=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
>
>
>
>
> > On Mar 27, 3:59=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
> > > On Mar 18, 10:50=A0pm, RFI-EMI-GUY <Rhyol...@NETTALLY.COM> wrote:
>
> > > > JIMMIE wrote:
> > > > > I have 3 mast mounted nuvistor pre amps less power supplies. I wa=
s
> > > > > looking for information on these to convert them to use on the 6 =
and 2
> > > > > meter =A0and 70cm ham bands. I may still have a power supply arou=
nd but
> > > > > as of yet I havent been able to find it. The pre amps are mount i=
n a
> > > > > somewhat egg shaped plastic container with twin lead connections =
on
> > > > > them. Im not sure of the manufacturer. Schematics on the amplifie=
rs
> > > > > and power supplies would be nice. Directions on doing the mod wou=
ld be
> > > > > great. There are plans for ham band nuvistor preamps around so if=
 I
> > > > > could figure out what I have it shouldnt be that difficult to con=
ver
> > > > > it to what I want. Besides that it will give me something to do w=
ith
> > > > > these old 6cw4s.
>
> > > > > Jimmie
>
> > > > You would do good to find a 70's or earlier ARRL handbook. There we=
re
> > > > many articles about Nuvistors.
>
> > > > --
> > > > Joe Leikhim K4SAT
> > > > "The RFI-EMI-GUY"=A9
>
> > > > "Use only Genuine Interocitor Parts" Tom Servo =A0;-P
>
> > > Well I got a little 2M nuvistor pre-amp put together last night. Im
> > > not sure of the noise figure of the amp but according to my S meter i=
t
> > > must have about at least 20 db of gain, maybe 30.
>
> > > I will have to take it into work were I have the =A0test equipment to
> > > check it out better.
>
> > > Jimmie- Hide quoted text -
>
> > > - Show quoted text -
>
> > Anyone know what kind of noise figure I could expect out of a 6cw4
> > nuvistor preamp. I only saw one reference and it mentioned 3db but
> > mostly all the other references just talked about gain.
>
> > Jimmie
>
> Hey OM
>
> The reason you see those high noise figures: Carbon comp resistors
> being used in tube circuits. The gain of the preamp amplifies the
> noise of the carbon comp resistors. Best is to use metal film
> resistors much lower noise.
> And squeezing 20db out of a 6cw4 that has only gain of around 64 or
> about 14 db is quite the feat.
>
> 73 OM
> de n8zu- Hide quoted text -
>
> - Show quoted text -

Yeah I used metal film on my preamp. I tossed all of my carbon
resistors a few years ago after I fixed a guitar amp for a friend and
he brought it back telling me how noisy it was. I traced the problem
back to the NOS(40 years) resistors I had used.

Like I said those were S meter db.  :))

Jimmie


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From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Nuvistor TV preamp mod
References: <b8ab8090-d338-4dfd-8857-6c49a4ec75a1@c36g2000yqn.googlegroups.com>
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Date: Fri, 27 Mar 2009 09:43:39 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2386

JIMMIE wrote:
> On Mar 27, 3:59 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
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>>
>>
>>
>>
>>
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>>> Joe Leikhim K4SAT
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>>> "Use only Genuine Interocitor Parts" Tom Servo  ;-P
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>>
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>>
>> Jimmie- Hide quoted text -
>>
>> - Show quoted text -
>
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> mostly all the other references just talked about gain.
>

 From vague memory I think Geloso used them a lot and got a little under
4dB out of those on 144MHz. In case anyone needs a datasheet:

http://www.r-type.org/pdfs/6cw4.pdf

--
73, Joerg


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From: Bill M <radioexray@geemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Boys Book Of Radio And Electronics - Destroyed!
Date: Fri, 27 Mar 2009 16:42:13 -0400
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http://www.snopes.com/inboxer/pending/cpsia.asp


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Organization: Cox
Date: Fri, 27 Mar 2009 16:51:32 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:2091
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"Bill M" <radioexray@geemail.com> wrote in message
news:gqjdn601lsv@news4.newsguy.com...
> http://www.snopes.com/inboxer/pending/cpsia.asp

A careful reading still implies that vendors should be suspious
of items made prior to 1985. That date is the crux of matter.
Vendors selling used post 1985 items would be free to assume they
are safe....

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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews4.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Mozilla-Thunderbird 2.0.0.19 (X11/20090103)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Boys Book Of Radio And Electronics - Destroyed!
References: <nvqyl.484582$Mh5.400664@bgtnsc04-news.ops.worldnet.att.net>
```

```
In-Reply-To: <nvqyl.484582$Mh5.400664@bgtnsc04-news.ops.worldnet.att.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 16
Message-ID: <feqzl.22031$qa.11908@bignews4.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
npbhgpngjbkmjfegdbdpiflmbcekedmfhojhikkbagflhcbogabjmnjbbkpgcdpkmnmfofihnblfeanpph
lpckcfgojbpmagobcmcjkhbgbpoobgoeeifleajbajgfpipdapjegbmfccfaajopgkhfbmgdpmhfjg
NNTP-Posting-Date: Sat, 28 Mar 2009 10:11:23 EDT
Organization: BellSouth Internet Group
Date: Sat, 28 Mar 2009 10:16:20 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2389

RadioGuy wrote:
> Childrens books (including Alfred Morgan's) before 1985 are being destroyed
> due to lead content in the ink as per Consumer Product Safety Commission
> ruling.
>
> Please review article: http://www.city-journal.org/2009/eon0212wo.html
>
> RG
>
>
The lead content in ink would be very low, and only could poison you if
you ATE the book.  Any child who would read one of the Morgan books
would be old enough to no longer be chewing on books.

Of course such books shouldn't be thrown in landfill (and burning them
would be bad too as it would release the lead to the atmosphere!).


From 4669358490454183200
X-Google-Thread: fc2a5,2e351383df16bcb9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!j8g2000yql.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Boys Book Of Radio And Electronics - Destroyed!
Date: Sat, 28 Mar 2009 07:46:02 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <a0b80737-27c6-4615-83cf-02436776d917@j8g2000yql.googlegroups.com>
References: <nvqyl.484582$Mh5.400664@bgtnsc04-news.ops.worldnet.att.net>
     <feqzl.22031$qa.11908@bignews4.bellsouth.net>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1238251562 24287 127.0.0.1 (28 Mar 2009 14:46:02 GMT)
```

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 28 Mar 2009 14:46:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j8g2000yql.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2093

On Mar 28, 10:16=A0am, ken scharf <wa2mzeNOSPAMB...@bellsouth.net>
wrote:
> RadioGuy wrote:
> > Childrens books (including Alfred Morgan's) before 1985 are being destr=
oyed
> > due to lead content in the ink as per Consumer Product Safety Commissio=
n
> > ruling.
>
> > Please review article:http://www.city-journal.org/2009/eon0212wo.html
>
> > RG
>
> The lead content in ink would be very low, and only could poison you if
> you ATE the book. =A0Any child who would read one of the Morgan books
> would be old enough to no longer be chewing on books.
>
> Of course such books shouldn't be thrown in landfill (and burning them
> would be bad too as it would release the lead to the atmosphere!).

Its probably more likely they would eat it instead of reading it.

Jimmie


From 482704063508745285
X-Google-Thread: fc2a5,29927434537d9c1,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q16g2000yqg.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Radio books
Date: Sat, 28 Mar 2009 08:06:08 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <149d9b88-500e-4a6e-b83a-a14110d93d8f@q16g2000yqg.googlegroups.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1238252768 5477 127.0.0.1 (28 Mar 2009 15:06:08 GMT)
```

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 28 Mar 2009 15:06:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q16g2000yqg.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2391
```

I am trying to remember the name of a radio book that was stolen from me years ago. It was a simple entry level book that had construction projects. It featured a series of valve transmitter each a little more complex and powerful than the next. A 1 valve 2 valve and a 3 valve tx that would put out 75 watts and used an 829B in the final in a push-pull configuration. It wasnt a large book and I remember the cover was black. Also stolen was a science project book that showed how to build cloud chambers, your own x- ray machine and a particle accelerator. I built the xray machiine and most of a siesmograph. I had put the siesmograph project on hold because I couldnt find some of the key parts.

Jimmie

```
From 8575448687233901340
X-Google-Thread: fc2a5,44603003e3f37b26
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews5.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Mozilla-Thunderbird 2.0.0.19 (X11/20090103)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6M amp
References: <6b29f753-ad87-4e98-acef-41fcd772c971@u1g2000vbb.googlegroups.com>
     <I9xxl.90981$Rg3.38225@newsfe17.iad> <8a2a3649-0270-4d65-
ad4b-0eb03710f8d2@e3g2000vbe.googlegroups.com>
In-Reply-To: <8a2a3649-0270-4d65-ad4b-0eb03710f8d2@e3g2000vbe.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 24
Message-ID: <Wsrzl.21782$v8.21235@bignews5.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcbodhjgkhhghdmbganlfjcbmomclaoomcmmph
lpckcfgojbpmagobcmcjkhbgbpoobgoeeifleajbajgfpimmmlfedghneffciamliilenkkflkggbe
NNTP-Posting-Date: Sat, 28 Mar 2009 11:35:18 EDT
Organization: BellSouth Internet Group
Date: Sat, 28 Mar 2009 11:45:30 -0400
```

```
Xref: g2news2.google.com rec.radio.amateur.homebrew:2392

JIMMIE wrote:
> On Mar 22, 4:25 pm, "Unca Pete" <radioconnect...@cox.net> wrote:
>> I'd think an old Ohmmite Z-50 would be ideal. Wonder
>> what the value in uH was?
>>
>> Pete
>
> I thought about a Z-50. I have one I use on a 6 Meter amp using a pair
> of 6146Bs. I didnt know if it would work with the 4cx250s or not.
>
> 6.8 uh rings a bell but Im not sure.
>
> Id rather wind my own if it will keep me from having to pull out the
> credit card and pay more shipping than what the thing cost.
>
>
> Jimme
Any choke that is not self resonant at 50MHz and has enough inductance
to give an impedance at least 10 times the plate load resistance will
work.  It, of course, must be able to handle the required voltage and
current.  The form can be ceramic, Teflon, or any material that does not
absorb RF at 50 MHz. An air wound choke will work too, but would have to
be wound with thick enough wire to be self supporting, and it might be
hard to meet the other requirements with this type of construction.


From 2221321775516951175
X-Google-Thread: fc2a5,d8f5c1e658b3c68d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews5.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Mozilla-Thunderbird 2.0.0.19 (X11/20090103)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-
bdd0-49eba484eef0@w35g2000yqm.googlegroups.com>
<QX3wl.67367$FI5.20197@newsfe07.iad> <Xns9BD2BB30CC7EFwa2ise@69.16.185.252>
     <9085826d-e72a-4cbe-9493-ff92406d552b@q18g2000vbn.googlegroups.com>
     <bRVwl.18562$b9.1772@bignews6.bellsouth.net> <9364817a-7a42-475a-a510-
a974d4cd16fb@r28g2000vbp.googlegroups.com>
<6Kcxl.24422$yr3.18211@nlpi068.nbdc.sbc.com>
<2cbf8d02-8d16-4e1a-809e-641710a64fee@l22g2000vba.googlegroups.com>
<tmxxl.15147$D32.4047@flpi146.ffdc.sbc.com>
In-Reply-To: <tmxxl.15147$D32.4047@flpi146.ffdc.sbc.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 81
```

```
Message-ID: <Wyrzl.21784$v8.10557@bignews5.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcbogcdnnfhacomfjjgmobbbcmckokoagpklph
lpckcfgojbpmagobcmcjkhbgbpoobgoeeifleajbajgfpiooidenccijboiinmgoegkahdbomedkmj
NNTP-Posting-Date: Sat, 28 Mar 2009 11:41:42 EDT
Organization: BellSouth Internet Group
Date: Sat, 28 Mar 2009 11:51:53 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:2096

Joerg wrote:
> JIMMIE wrote:
>> On Mar 21, 5:11 pm, Joerg <notthisjoerg...@removethispacbell.net>
>> wrote:
>>> JIMMIE wrote:
>>>> On Mar 20, 6:47 pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
>>>>> JIMMIE wrote:
>>>>>> On Mar 18, 9:24 pm, Robert casey <wa2...@ix.netcom.com> wrote:
>>>>>>>> The design used plug-in coils for the osc and rf stages, and
>>>>>>>  they were double conversion designs, with a first IF of
>>>>>>>  1600 kc and a second IF of either 100 kc or 85 kc (when
>>>>>>>  using surplus ARC-5 IFTs.)  The 1800 mc xtal you bought
>>>>>>>  your dad was used for the second coversion osc. to convert
>>>>>>>  the 1600 kc IF down to 100 kc.  Many hams deviated from
>>>>>>>  the exact original IF frequencies (i.e. strong local BC
>>>>>>>  station on 1600 kc) which might explain why the xtal
>>>>>>>> was chosen for 1800 kc instead of 1500 or 1700.
>>>>>>> We have a local mid power station at 1600KHz, WWRL, at my
>>>>>>> parents' house,
>>>>>>> so my father might have wanted to avoid problems with it.
>>>>>>> His radio had a bandswitch instead of plug in coils, and he'd
>>>>>>> receive
>>>>>>> various broadcast SW stations.  He wasn't a ham at the time just
>>>>>>> yet.
>>>>>> I had a friend who was a retired engineer with GE turned TV tech who
>>>>>> built
>>>>>> one with a band switch and he later modified it to
>>>>>> be more of a general purpose SW receiver. His name was Olin Griggs.
>>>>>> Jimmie.
>>>>> I once saw an article in 73 magazine showing a HB receiver that used a
>>>>> re-worked turret tv tuner as a band switch.  The coils were re-wound
>>>>> onto the original forms, but some have just replaced the forms with
>>>>> some
>>>>> of the smaller sized toroid cores.  I have a bunch of old tv tuners in
>>>>> the junk box, but over the years the contacts have gone bad and now
>>>>> show
>>>>> a high resistance.   Maybe they could be cleaned up, but it no longer
>>>>> seems worth the effort.  My new idea is to use miniature relays to
>>>>> switch the circuits.  I recently found nearly a gross of small relays
>>>>> for free so why not?- Hide quoted text -
>>>>> - Show quoted text -
>>>> I tried the TV tuner trick one time and it didnt work well at all.
```

```
>>>> Most tuners are tossed because the contacts fail. ...
>>> Not really. Back then TVs were often tossed because the flyback xfmr had
>>> blown and repair was deemed uneconomical. Or someone said that because
>>> in reality they wanted that brand spanking new set that was one sale.
>>>
>>> But this is so long ago that if there's any left the contacts will have
>>> corrodes away.
>>>
>>> [...]
>>>
>>> --
>>> 73, Joerg- Hide quoted text -
>>>
>>> - Show quoted text -
>>
>> You must be younger than me, Ive replaced a lot of TV tuners and
>> flybacks. It was in the early 80s that i first noticed
>> TVs becoming diposable and quit working on them. Luckily for me there
>> was still a lot of other electtronic repair work needed to be done.
>> Most of the  local industry was becoming more electronic oriented  in
>> their equipment and needed someone to maintain their equipment but did
>> not want to hire a full time tech. The sawmills, textile plants, food
>> processing plants kept me pretty busy aand i enjoyed the work much
>> more not having to deal with the usual customers.
>>
>
> Same here, in the early 80's I began to refuse fixing TVs and stuff. But
> even before that, I remember the flyback transformers for some sets
> being so outrageously expensive that a repair plain didn't make sense.
> Especially if it had taken out the H-deflection tube and some other
> stuff with it or the set itself had already been quite tired at the time
> it hissed its good-bye. This was in Europe.
>
I once fixed my parents tv by replacing the yoke, and I more recently
fixed my wife's tv set by replacing the flyback (AND the horizontal
output transistor).  The first set was a tube type Zenith B&W 19"
portable.  The second was a Trinitron color portable.
I think you still can get replacement yokes, flybacks, and even CRT's
for recent tv's.  Good luck getting anything else!


From 2427912852144848497
X-Google-Thread: fc2a5,d8f5c1e658b3c68d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nlpi057.nbdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!
prodigy.com!flpi107.ffdc.sbc.com!flpi147.ffdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
```

```
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-
bdd0-49eba484eef0@w35g2000yqm.googlegroups.com>
<QX3wl.67367$FI5.20197@newsfe07.iad> <Xns9BD2BB30CC7EFwa2ise@69.16.185.252>
     <9085826d-e72a-4cbe-9493-ff92406d552b@q18g2000vbn.googlegroups.com>
     <bRVwl.18562$b9.1772@bignews6.bellsouth.net> <9364817a-7a42-475a-a510-
a974d4cd16fb@r28g2000vbp.googlegroups.com>
<6Kcxl.24422$yr3.18211@nlpi068.nbdc.sbc.com>
<2cbf8d02-8d16-4e1a-809e-641710a64fee@l22g2000vba.googlegroups.com>
<tmxxl.15147$D32.4047@flpi146.ffdc.sbc.com>
<Wyrzl.21784$v8.10557@bignews5.bellsouth.net>
In-Reply-To: <Wyrzl.21784$v8.10557@bignews5.bellsouth.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 93
Message-ID: <ZWrzl.14543$8_3.6723@flpi147.ffdc.sbc.com>
NNTP-Posting-Host: 75.26.184.217
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi147.ffdc.sbc.com 1238256441 ST000 75.26.184.217 (Sat, 28 Mar 2009
12:07:21 EDT)
NNTP-Posting-Date: Sat, 28 Mar 2009 12:07:21 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
Q[R_PJSCOPTMRT@[IZOBORTDEB\@PD\MNPWZKB]MPXHDUWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
TINTDDMVW[X\THOPXZRVOCJTUTPC\_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Sat, 28 Mar 2009 09:13:23 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:2097

ken scharf wrote:
> Joerg wrote:
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>>> wrote:
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>>>>>>>>> The design used plug-in coils for the osc and rf stages, and
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>>>>>>>>  using surplus ARC-5 IFTs.)  The 1800 mc xtal you bought
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```

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>>>>
>>>> But this is so long ago that if there's any left the contacts will have
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>>>>
>>>> [...]
>>>>
>>>> --
>>>> 73, Joerg- Hide quoted text -
>>>>
>>>> - Show quoted text -
>>>
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>>> Most of the local industry was becoming more electronic oriented in
>>> their equipment and needed someone to maintain their equipment but did
>>> not want to hire a full time tech. The sawmills, textile plants, food
>>> processing plants kept me pretty busy aand i enjoyed the work much
>>> more not having to deal with the usual customers.
>>>
>>
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>>
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> portable. The second was a Trinitron color portable.
> I think you still can get replacement yokes, flybacks, and even CRT's
> for recent tv's. Good luck getting anything else!

I think the real challenge will come when one of those monstrous LCD TV
sets goes on the fritz and it's anything other than the backlight
inverter that died.

--
73, Joerg

```
From -1705698903087559788
X-Google-Thread: fc2a5,d8f5c1e658b3c68d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
news.glorb.com!bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews6.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Mozilla-Thunderbird 2.0.0.19 (X11/20090103)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-
bdd0-49eba484eef0@w35g2000yqm.googlegroups.com>
<QX3wl.67367$FI5.20197@newsfe07.iad> <Xns9BD2BB30CC7EFwa2ise@69.16.185.252>
     <9085826d-e72a-4cbe-9493-ff92406d552b@q18g2000vbn.googlegroups.com>
     <bRVwl.18562$b9.1772@bignews6.bellsouth.net> <9364817a-7a42-475a-a510-
a974d4cd16fb@r28g2000vbp.googlegroups.com>
<6Kcxl.24422$yr3.18211@nlpi068.nbdc.sbc.com>
<2cbf8d02-8d16-4e1a-809e-641710a64fee@l22g2000vba.googlegroups.com>
<tmxxl.15147$D32.4047@flpi146.ffdc.sbc.com>
<Wyrzl.21784$v8.10557@bignews5.bellsouth.net>
<ZWrzl.14543$8_3.6723@flpi147.ffdc.sbc.com>
In-Reply-To: <ZWrzl.14543$8_3.6723@flpi147.ffdc.sbc.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 103
Message-ID: <XDszl.21736$b9.2541@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcboecajbhhaoiahkebmbknbjjcmonkcfibaph
lpckcfgojbpmagobcmcjkhbgbpoobgoeeifleajbajgfpinkiiioapbgglifojoloklmoeejkgfcme
NNTP-Posting-Date: Sat, 28 Mar 2009 12:55:19 EDT
Organization: BellSouth Internet Group
Date: Sat, 28 Mar 2009 13:00:52 -0400
```

```
Xref: g2news1.google.com rec.radio.amateur.homebrew:2098

Joerg wrote:
> ken scharf wrote:
>> Joerg wrote:
>>> JIMMIE wrote:
>>>> On Mar 21, 5:11 pm, Joerg <notthisjoerg...@removethispacbell.net>
>>>> wrote:
>>>>> JIMMIE wrote:
>>>>>> On Mar 20, 6:47 pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net>
>>>>>> wrote:
>>>>>>> JIMMIE wrote:
>>>>>>>> On Mar 18, 9:24 pm, Robert casey <wa2...@ix.netcom.com> wrote:
>>>>>>>>>> The design used plug-in coils for the osc and rf stages, and
>>>>>>>>>  they were double conversion designs, with a first IF of
>>>>>>>>>  1600 kc and a second IF of either 100 kc or 85 kc (when
>>>>>>>>>  using surplus ARC-5 IFTs.)  The 1800 mc xtal you bought
>>>>>>>>>  your dad was used for the second coversion osc. to convert
>>>>>>>>>  the 1600 kc IF down to 100 kc.  Many hams deviated from
>>>>>>>>>  the exact original IF frequencies (i.e. strong local BC
>>>>>>>>>  station on 1600 kc) which might explain why the xtal
>>>>>>>>>> was chosen for 1800 kc instead of 1500 or 1700.
>>>>>>>>> We have a local mid power station at 1600KHz, WWRL, at my
>>>>>>>>> parents' house,
>>>>>>>>> so my father might have wanted to avoid problems with it.
>>>>>>>>> His radio had a bandswitch instead of plug in coils, and he'd
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>>>>>>>>> various broadcast SW stations.  He wasn't a ham at the time
>>>>>>>>> just yet.
>>>>>>>> I had a friend who was a retired engineer with GE turned TV tech
>>>>>>>> who
>>>>>>>> built
>>>>>>>> one with a band switch and he later modified it to
>>>>>>>> be more of a general purpose SW receiver. His name was Olin Griggs.
>>>>>>>> Jimmie.
>>>>>>> I once saw an article in 73 magazine showing a HB receiver that
>>>>>>> used a
>>>>>>> re-worked turret tv tuner as a band switch.  The coils were re-wound
>>>>>>> onto the original forms, but some have just replaced the forms
>>>>>>> with some
>>>>>>> of the smaller sized toroid cores.  I have a bunch of old tv
>>>>>>> tuners in
>>>>>>> the junk box, but over the years the contacts have gone bad and
>>>>>>> now show
>>>>>>> a high resistance.   Maybe they could be cleaned up, but it no
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>>>>>>> seems worth the effort.  My new idea is to use miniature relays to
>>>>>>> switch the circuits.  I recently found nearly a gross of small
>>>>>>> relays
>>>>>>> for free so why not?- Hide quoted text -
>>>>>>> - Show quoted text -
>>>>>> I tried the TV tuner trick one time and it didnt work well at all.
>>>>>> Most tuners are tossed because the contacts fail. ...
```

>>>>> Not really. Back then TVs were often tossed because the flyback
>>>>> xfmr had
>>>>> blown and repair was deemed uneconomical. Or someone said that because
>>>>> in reality they wanted that brand spanking new set that was one sale.
>>>>>
>>>>> But this is so long ago that if there's any left the contacts will
>>>>> have
>>>>> corrodes away.
>>>>>
>>>>> [...]
>>>>>
>>>>> --
>>>>> 73, Joerg- Hide quoted text -
>>>>>
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>>>> You must be younger than me, Ive replaced a lot of TV tuners and
>>>> flybacks. It was in the early 80s that i first noticed
>>>> TVs becoming diposable and quit working on them. Luckily for me there
>>>> was still a lot of other electtronic repair work needed to be done.
>>>> Most of the local industry was becoming more electronic oriented in
>>>> their equipment and needed someone to maintain their equipment but did
>>>> not want to hire a full time tech. The sawmills, textile plants, food
>>>> processing plants kept me pretty busy aand i enjoyed the work much
>>>> more not having to deal with the usual customers.
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>>> Same here, in the early 80's I began to refuse fixing TVs and stuff.
>>> But even before that, I remember the flyback transformers for some
>>> sets being so outrageously expensive that a repair plain didn't make
>>> sense. Especially if it had taken out the H-deflection tube and some
>>> other stuff with it or the set itself had already been quite tired at
>>> the time it hissed its good-bye. This was in Europe.
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>> I once fixed my parents tv by replacing the yoke, and I more recently
>> fixed my wife's tv set by replacing the flyback (AND the horizontal
>> output transistor). The first set was a tube type Zenith B&W 19"
>> portable. The second was a Trinitron color portable.
>> I think you still can get replacement yokes, flybacks, and even CRT's
>> for recent tv's. Good luck getting anything else!
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>
> I think the real challenge will come when one of those monstrous LCD TV
> sets goes on the fritz and it's anything other than the backlight
> inverter that died.
>
The backlight itself is actually part of the LCD panel in most cases,
so when that dies, you need to replace the panel, which means the tv is
toast.

Most of the other parts are low power, except for the panel drivers,
which themselves may be part of the panel!

```
From 2916493433339078039
X-Google-Thread: fc2a5,d8f5c1e658b3c68d
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Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!
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nlpi066.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-
bdd0-49eba484eef0@w35g2000yqm.googlegroups.com>
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     <9085826d-e72a-4cbe-9493-ff92406d552b@q18g2000vbn.googlegroups.com>
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<6Kcxl.24422$yr3.18211@nlpi068.nbdc.sbc.com>
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<tmxxl.15147$D32.4047@flpi146.ffdc.sbc.com>
<Wyrzl.21784$v8.10557@bignews5.bellsouth.net>
<ZWrzl.14543$8_3.6723@flpi147.ffdc.sbc.com>
<XDszl.21736$b9.2541@bignews6.bellsouth.net>
In-Reply-To: <XDszl.21736$b9.2541@bignews6.bellsouth.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
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X-Trace: nlpi066.nbdc.sbc.com 1238260712 ST000 75.26.184.217 (Sat, 28 Mar 2009
13:18:32 EDT)
NNTP-Posting-Date: Sat, 28 Mar 2009 13:18:32 EDT
Organization: at&t http://my.att.net/
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\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Sat, 28 Mar 2009 10:18:23 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:2099
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Often you can get to that inverter. Then if you are lucky it's the two
transistors. If not it's usually the transformer and then the catalog
chase begins.

> Most of the other parts are low power, except for the panel drivers,
> which themselves may be part of the panel!

Got to be careful. I've designed a HV generator with CCFL transformers for a client last year. Guess who was the first one it bit?

The remainder of those TVs is often largely high integration. DSPs, special video chips, memory, FPGA, ASICs. Very hard to debug because they won't give you any technical documents, usually.

--
73, Joerg

```
From -1659421194018153295
X-Google-Thread: fc2a5,2e351383df16bcb9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
From: "RadioGuy" <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
References: <nvqyl.484582$Mh5.400664@bgtnsc04-news.ops.worldnet.att.net>
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<ua3zl.84854$4m1.66260@bgtnsc05-news.ops.worldnet.att.net> <c5abd0cd-e5c6-4f2a-
b119-6ff2ea3c6c6f@e25g2000vbe.googlegroups.com> <gqjdn601lsv@news4.newsguy.com>
Subject: Re: Boys Book Of Radio And Electronics - Destroyed!
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
Message-ID: <uTvzl.87505$4m1.30306@bgtnsc05-news.ops.worldnet.att.net>
Date: Sat, 28 Mar 2009 20:36:42 GMT
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X-Trace: bgtnsc05-news.ops.worldnet.att.net 1238272602 12.78.66.163 (Sat, 28 Mar
2009 20:36:42 GMT)
NNTP-Posting-Date: Sat, 28 Mar 2009 20:36:42 GMT
Organization: AT&T Worldnet
Xref: g2news1.google.com rec.radio.amateur.homebrew:2100
```

"Bill M" <radioexray@geemail.com> wrote in message
news:gqjdn601lsv@news4.newsguy.com...
> http://www.snopes.com/inboxer/pending/cpsia.asp

Good link and the references were appreciated though the discussion was a bit confusing.

So in other words to all those that have suspect items; err on the safe side and discard them safely so as to avoid any possible infractions and liabilities.

```
From -4720030623287542594
X-Google-Thread: fc2a5,44603003e3f37b26
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!z9g2000yqi.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6M amp
Date: Sat, 28 Mar 2009 17:19:01 -0700 (PDT)
Organization: http://groups.google.com
Lines: 36
Message-ID: <8373ffee-7372-4bb8-89d2-eebf872d3931@z9g2000yqi.googlegroups.com>
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NNTP-Posting-Date: Sun, 29 Mar 2009 00:19:01 +0000 (UTC)
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Injection-Info: z9g2000yqi.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2398

On Mar 28, 11:45=A0am, ken scharf <wa2mzeNOSPAMB...@bellsouth.net>
wrote:
> JIMMIE wrote:
> > On Mar 22, 4:25 pm, "Unca Pete" <radioconnect...@cox.net> wrote:
> >> I'd think an old Ohmmite Z-50 would be ideal. Wonder
> >> what the value in uH was?
>
> >> Pete
>
> > I thought about a Z-50. I have one I use on a 6 Meter amp using a pair
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> > 6.8 uh rings a bell but Im not sure.
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> > Id rather wind my own if it will keep me from having to pull out the
> > credit card and pay more shipping than what the thing cost.
>
> > Jimme
>
```

```
> Any choke that is not self resonant at 50MHz and has enough inductance
> to give an impedance at least 10 times the plate load resistance will
> work. =A0It, of course, must be able to handle the required voltage and
> current. =A0The form can be ceramic, Teflon, or any material that does no=
t
> absorb RF at 50 MHz. An air wound choke will work too, but would have to
> be wound with thick enough wire to be self supporting, and it might be
> hard to meet the other requirements with this type of construction.- Hide=
 quoted text -
>
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OK I made a coil per the instructions I mentioned and placed it in
parallell with a 50 ohm resistor and connected it to my antenna
analyzer. There is a big spike in the SWR at about 75 Mhz. I assume
this is the self resonant frequency of the coil. Is this far enough
away from 50Mhz to use as a plate choke?



From -8211472957729935717
X-Google-Thread: fc2a5,44603003e3f37b26
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews3.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Mozilla-Thunderbird 2.0.0.19 (X11/20090103)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6M amp
References: <6b29f753-ad87-4e98-acef-41fcd772c971@u1g2000vbb.googlegroups.com>
     <I9xxl.90981$Rg3.38225@newsfe17.iad> <8a2a3649-0270-4d65-
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eebf872d3931@z9g2000yqi.googlegroups.com>
In-Reply-To: <8373ffee-7372-4bb8-89d2-eebf872d3931@z9g2000yqi.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 36
Message-ID: <jQKzl.22146$v8.18890@bignews3.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcbolojhmagdahlebpbobknbjjcmonkcfibaph
lpckcfgojbpmagenhcokpdiifknenhojpelidommdnlohhhfbiljnfniokhpbpoloklmoeejkgfcme
NNTP-Posting-Date: Sun, 29 Mar 2009 09:37:19 EDT
Organization: BellSouth Internet Group
Date: Sun, 29 Mar 2009 09:44:46 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2399

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That's half an octave away.  Good enough.
I would install the choke in the circuit and without applying power or
drive put a gird dip meter to the choke and double check for resonance
again.  IF resonance at 50 mhz is detected, swing the tank capacitors to
make sure you are just detecting resonance in the tank circuit coupled
through the choke.  If that is what you see, it's OK.



From -3667136806897390289
X-Google-Thread: fc2a5,2e351383df16bcb9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!s28g2000vbp.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Boys Book Of Radio And Electronics - Destroyed!
Date: Sun, 29 Mar 2009 08:13:25 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <dbdbfa51-d58e-4558-bf2b-378a7ed442bc@s28g2000vbp.googlegroups.com>
References: <nvqyl.484582$Mh5.400664@bgtnsc04-news.ops.worldnet.att.net>
     <feqzl.22031$qa.11908@bignews4.bellsouth.net>
NNTP-Posting-Host: 76.226.138.86
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Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1238339606 11387 127.0.0.1 (29 Mar 2009 15:13:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 29 Mar 2009 15:13:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s28g2000vbp.googlegroups.com; posting-host=76.226.138.86;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.0.6)
     Gecko/2009020911 Ubuntu/8.04 (hardy) Firefox/3.0.6,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2400

On Mar 28, 10:16=A0am, ken scharf <wa2mzeNOSPAMB...@bellsouth.net>
wrote:
> RadioGuy wrote:
Hey OM:

Sort o reminds me of the FCC ACT of 1934. Where they started stripping
frequencies away from amateurs. Soon we will end up all on a party
line frequency like 10.7 CM along with the solar flux, what the flux?

73 OM
de n8zu




> > Childrens books (including Alfred Morgan's) before 1985 are being destr=
oyed
> > due to lead content in the ink as per Consumer Product Safety Commissio=
n
> > ruling.
>
> > Please review article:http://www.city-journal.org/2009/eon0212wo.html
>
> > RG
>
> The lead content in ink would be very low, and only could poison you if
> you ATE the book. =A0Any child who would read one of the Morgan books
> would be old enough to no longer be chewing on books.
>
> Of course such books shouldn't be thrown in landfill (and burning them
> would be bad too as it would release the lead to the atmosphere!).



From -67630319974850694
X-Google-Thread: fc2a5,2e351383df16bcb9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
```

```
nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!post02.iad!
news.dslextreme.com!not-for-mail
Date: Tue, 31 Mar 2009 13:16:52 -0700
From: dave <dave@dave.dave>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.19) Gecko/
20081204 SeaMonkey/1.1.14
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Boys Book Of Radio And Electronics - Destroyed!
References: <nvqyl.484582$Mh5.400664@bgtnsc04-news.ops.worldnet.att.net>
<2p1os45j6u9rqpdc17eiport9tpi4a70nh@4ax.com>
<49cc1a4f$0$31214$bd467cd0@news.dslextreme.com> <ua3zl.84854$4m1.66260@bgtnsc05-
news.ops.worldnet.att.net>
In-Reply-To: <ua3zl.84854$4m1.66260@bgtnsc05-news.ops.worldnet.att.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 12
Message-ID: <49d27a38$0$31177$bd467cd0@news.dslextreme.com>
Organization: dslextreme.com
X-Complaints-To: abuse@dslextreme.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:2104

RadioGuy wrote:

>
> Perhaps the digitizing of books may be a safe recourse---but who can be
> trusted to make the selections of what to digitize, who will maintain and
> oversee electronic libraries?
>
> RG
>
>
Isn't the whole point of the internet the fact that there are no
gatekeepers?


From 6083543661385575534
X-Google-Thread: fc2a5,3a78cb4828ccc76a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!y13g2000yqn.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Nuvistor TV preamp mod
Date: Tue, 31 Mar 2009 20:16:38 -0700 (PDT)
Organization: http://groups.google.com
Lines: 63
Message-ID: <21a42443-cfc9-4353-ae28-71b13a8f9dce@y13g2000yqn.googlegroups.com>
References: <b8ab8090-d338-4dfd-8857-6c49a4ec75a1@c36g2000yqn.googlegroups.com>
     <49c1b2d6$0$4955$9a6e19ea@unlimited.newshosting.com> <fca765c0-750c-48fc-
aed7-6ecfc20d83c8@e35g2000yqc.googlegroups.com>
     <1b2b82c0-a044-4a64-94b7-b380ec118c23@l22g2000vba.googlegroups.com>
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NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1238555798 11189 127.0.0.1 (1 Apr 2009 03:16:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 1 Apr 2009 03:16:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y13g2000yqn.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2402

On Mar 27, 12:43=A0pm, Joerg <notthisjoerg...@removethispacbell.net>
wrote:
> JIMMIE wrote:
> > On Mar 27, 3:59 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> >> On Mar 18, 10:50 pm, RFI-EMI-GUY <Rhyol...@NETTALLY.COM> wrote:
>
> >>> JIMMIE wrote:
> >>>> I have 3 mast mounted nuvistor pre amps less power supplies. I was
> >>>> looking for information on these to convert them to use on the 6 and=
 2
> >>>> meter =A0and 70cm ham bands. I may still have a power supply around =
but
> >>>> as of yet I havent been able to find it. The pre amps are mount in a
> >>>> somewhat egg shaped plastic container with twin lead connections on
> >>>> them. Im not sure of the manufacturer. Schematics on the amplifiers
> >>>> and power supplies would be nice. Directions on doing the mod would =
be
> >>>> great. There are plans for ham band nuvistor preamps around so if I
> >>>> could figure out what I have it shouldnt be that difficult to conver
> >>>> it to what I want. Besides that it will give me something to do with
> >>>> these old 6cw4s.
> >>>> Jimmie
> >>> You would do good to find a 70's or earlier ARRL handbook. There were
> >>> many articles about Nuvistors.
> >>> --
> >>> Joe Leikhim K4SAT
> >>> "The RFI-EMI-GUY"=A9
> >>> "Use only Genuine Interocitor Parts" Tom Servo =A0;-P
> >> Well I got a little 2M nuvistor pre-amp put together last night. Im
> >> not sure of the noise figure of the amp but according to my S meter it
> >> must have about at least 20 db of gain, maybe 30.
>
> >> I will have to take it into work were I have the =A0test equipment to
> >> check it out better.
>
> >> Jimmie- Hide quoted text -
>
```

```
> >> - Show quoted text -
>
> > Anyone know what kind of noise figure I could expect out of a 6cw4
> > nuvistor preamp. I only saw one reference and it mentioned 3db but
> > mostly all the other references just talked about gain.
>
> =A0From vague memory I think Geloso used them a lot and got a little unde=
r
> 4dB out of those on 144MHz. In case anyone needs a datasheet:
>
> http://www.r-type.org/pdfs/6cw4.pdf
>
> --
> 73, Joerg- Hide quoted text -
>
> - Show quoted text -

Thanks, I was just trrying to finish up a project I started years ago,
my wife had been getting on to me about not completing what I start.
Tinkering with the nuvistors also sounded like fun. Well I now realize
why you dont see projects based on them and noone is scouring the
tables at the hamfest looking for nuvistors. There are better/easier
of ways  of skinning this cat. A DC to Daylight preamp using a MMIC
may well have better NF and gain.

Jimmie



From 883578547786533469
X-Google-Thread: fc2a5,2e351383df16bcb9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f19g2000yqo.googlegroups.com!not-for-
mail
From: joeturn <joeturn2000@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Boys Book Of Radio And Electronics - Destroyed!
Date: Tue, 31 Mar 2009 20:34:57 -0700 (PDT)
Organization: http://groups.google.com
Lines: 3
Message-ID: <84523d98-3086-4284-9150-8811e663e369@f19g2000yqo.googlegroups.com>
References: <nvqyl.484582$Mh5.400664@bgtnsc04-news.ops.worldnet.att.net>
     <2p1os45j6u9rqpdc17eiport9tpi4a70nh@4ax.com>
<49cc1a4f$0$31214$bd467cd0@news.dslextreme.com>
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     <49d27a38$0$31177$bd467cd0@news.dslextreme.com>
NNTP-Posting-Host: 24.95.252.127
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1238556898 26411 127.0.0.1 (1 Apr 2009 03:34:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 1 Apr 2009 03:34:58 +0000 (UTC)
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Trident/4.0; .NET CLR 1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0;
     yie8),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2403
```

PHD at work how are we going to keep the wormed?

http://www.columbiamissourian.com/stories/2009/03/19/consumer-product-safety-commission-urges-libraries-take-childrens-books-printed-1986-their-shelves/

```
From -7482989807306565453
X-Google-Thread: fc2a5,3a78cb4828ccc76a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
flpi150.ffdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Nuvistor TV preamp mod
References: <b8ab8090-d338-4dfd-8857-6c49a4ec75a1@c36g2000yqn.googlegroups.com>
     <49c1b2d6$0$4955$9a6e19ea@unlimited.newshosting.com> <fca765c0-750c-48fc-
aed7-6ecfc20d83c8@e35g2000yqc.googlegroups.com>     <1b2b82c0-a044-4a64-94b7-
b380ec118c23@l22g2000vba.googlegroups.com>     <5n7zl.10750$
%54.6437@nlpi070.nbdc.sbc.com> <21a42443-cfc9-4353-
ae28-71b13a8f9dce@y13g2000yqn.googlegroups.com>
In-Reply-To: <21a42443-cfc9-4353-ae28-71b13a8f9dce@y13g2000yqn.googlegroups.com>
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Lines: 80
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NNTP-Posting-Host: 75.26.170.178
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi150.ffdc.sbc.com 1238557080 ST000 75.26.170.178 (Tue, 31 Mar 2009
23:38:00 EDT)
NNTP-Posting-Date: Tue, 31 Mar 2009 23:38:00 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
SCSYQNON_ZUYB_TY]ZKTOFTBTR\B@GXLN@GZ_GYO^JWTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Tue, 31 Mar 2009 20:37:58 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2404
```

JIMMIE wrote:
> On Mar 27, 12:43 pm, Joerg <notthisjoerg...@removethispacbell.net>

> wrote:
>> JIMMIE wrote:
>>> On Mar 27, 3:59 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>>>> On Mar 18, 10:50 pm, RFI-EMI-GUY <Rhyol...@NETTALLY.COM> wrote:
>>>>> JIMMIE wrote:
>>>>>> I have 3 mast mounted nuvistor pre amps less power supplies. I was
>>>>>> looking for information on these to convert them to use on the 6 and 2
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>>>>>> and power supplies would be nice. Directions on doing the mod would be
>>>>>> great. There are plans for ham band nuvistor preamps around so if I
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>>>>>> Jimmie
>>>>> You would do good to find a 70's or earlier ARRL handbook. There were
>>>>> many articles about Nuvistors.
>>>>> --
>>>>> Joe Leikhim K4SAT
>>>>> "The RFI-EMI-GUY"�
>>>>> "Use only Genuine Interocitor Parts" Tom Servo ;-P
>>>> Well I got a little 2M nuvistor pre-amp put together last night. Im
>>>> not sure of the noise figure of the amp but according to my S meter it
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>>>> I will have to take it into work were I have the test equipment to
>>>> check it out better.
>>>> Jimmie- Hide quoted text -
>>>> - Show quoted text -
>>> Anyone know what kind of noise figure I could expect out of a 6cw4
>>> nuvistor preamp. I only saw one reference and it mentioned 3db but
>>> mostly all the other references just talked about gain.
>> From vague memory I think Geloso used them a lot and got a little under
>> 4dB out of those on 144MHz. In case anyone needs a datasheet:
>>
>> http://www.r-type.org/pdfs/6cw4.pdf
>>
>> --
>> 73, Joerg- Hide quoted text -
>>
>> - Show quoted text -
>
> Thanks, I was just trrying to finish up a project I started years ago,
> my wife had been getting on to me about not completing what I start.

Somehow this sounds quite familiar :-)

> Tinkering with the nuvistors also sounded like fun. Well I now realize
> why you dont see projects based on them and noone is scouring the
> tables at the hamfest looking for nuvistors. There are better/easier

> of ways of skinning this cat. A DC to Daylight preamp using a MMIC
> may well have better NF and gain.
>

True, but tubes and even those tiny ones do have one distinct advantage. When a thunderstorm rolls through town or you accidentally transmit into your pre-amp their chance of survival is orders of magnitude higher. Just imagine, when placing a hard 50V spike onto the grid a tube won't even flinch. A GaAs-FET or MMIC? Tsssk ... *BANG*.

I realized this early on after getting my license. The transistor in the pre-amp on the roof had died for the umpteenth time during a thunderstorm. But this time the moss on the roof was quite thick and I almost slid down. Whew! That did it. Built one with a tube (army surplus, NOS, long lifetime version), and it never died again. Oh yeah, and more than once did I accidentally transmit into the back of it. Left it completely unfazed. Losing a dB or two in noise figure for the sake of not having to scale that roof was well worth it :-)

I have seen Russians offer cartons full of nuvistors on auction sites, they almost look like bonbon boxes. They must have a sizeable stash of those over there.

--
73, Joerg

From -8340261812651432144
X-Google-Thread: fc2a5,2e351383df16bcb9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!newshub.sdsu.edu!
flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!nlpi069.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Boys Book Of Radio And Electronics - Destroyed!
References: <nvqyl.484582$Mh5.400664@bgtnsc04-news.ops.worldnet.att.net>
<2p1os45j6u9rqpdc17eiport9tpi4a70nh@4ax.com>
<49cc1a4f$0$31214$bd467cd0@news.dslextreme.com>
<ua3zl.84854$4m1.66260@bgtnsc05-news.ops.worldnet.att.net>
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<84523d98-3086-4284-9150-8811e663e369@f19g2000yqo.googlegroups.com>
In-Reply-To: <84523d98-3086-4284-9150-8811e663e369@f19g2000yqo.googlegroups.com>
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Content-Transfer-Encoding: 7bit
Lines: 17
Message-ID: <eyBAl.17241$as4.2888@nlpi069.nbdc.sbc.com>
NNTP-Posting-Host: 75.26.170.178
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi069.nbdc.sbc.com 1238557962 ST000 75.26.170.178 (Tue, 31 Mar 2009

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23:52:42 EDT)
NNTP-Posting-Date: Tue, 31 Mar 2009 23:52:42 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
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Date: Tue, 31 Mar 2009 20:52:21 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:2108
```

joeturn wrote:

> PHD at work how are we going to keep the wormed?
>
> http://www.columbiamissourian.com/stories/2009/03/19/consumer-product-safety-commission-urges-libraries-take-childrens-books-printed-1986-their-shelves/

Quote "If that child were to actually start mouthing the book ..."

What has society come to? Where's the parents? In my youth parents or grandparents would read to the children. Leaving a very small child alone with a book would have been considered rather daft.

Maybe the next ARRL Handbook will contain a bold warning "Do not put in mouth" in English, Spanish and Klingon ;-)

--
73, Joerg

```
From 8087076627614555548
X-Google-Thread: fc2a5,3a78cb4828ccc76a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!
news2.glorb.com!newsfeed.xs4all.nl!newsfeed6.news.xs4all.nl!
newsfeed5.news.xs4all.nl!xs4all!feeds.phibee-telecom.net!
border2.nntp.ams.giganews.com!nntp.giganews.com!feeder2.news.saunalahti.fi!
uutiset.elisa.fi!7564ea0f!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Nuvistor TV preamp mod
Message-ID: <s7v5t4letkghfhlljqq5gqgfpqshijn900@4ax.com>
References: <b8ab8090-d338-4dfd-8857-6c49a4ec75a1@c36g2000yqn.googlegroups.com>
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aed7-6ecfc20d83c8@e35g2000yqc.googlegroups.com>    <1b2b82c0-a044-4a64-94b7-
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MIME-Version: 1.0
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Lines: 53
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X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1238565948 85.77.207.251 (Wed, 01 Apr 2009 09:05:48 EEST)
NNTP-Posting-Date: Wed, 01 Apr 2009 09:05:48 EEST
Organization: Elisa Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:2406

On Tue, 31 Mar 2009 20:37:58 -0700, Joerg
<notthisjoergsch@removethispacbell.net> wrote:

>JIMMIE wrote:
>> On Mar 27, 12:43 pm, Joerg <notthisjoerg...@removethispacbell.net>
>> wrote:

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>>> 4dB out of those on 144MHz. In case anyone needs a datasheet:
>>>
>>> http://www.r-type.org/pdfs/6cw4.pdf

According to this page
http://www.amsat.org/amsat/archive/amsat-bb/200409/msg00451.html
Geloso got 3.6 dB@50/144 MHz to 6.0 dB@432 MHz.

The VHF numbers are still usable at terrestrial VHF communication due
to the high band noise. For satellite and EME communication, the
performance it not very good at VHF and practically useless on UHF.

>> Tinkering with the nuvistors also sounded like fun. Well I now realize
>> why you dont see projects based on them and noone is scouring the
>> tables at the hamfest looking for nuvistors. There are better/easier
>> of ways of skinning this cat. A DC to Daylight preamp using a MMIC
>> may well have better NF and gain.
>>
>
>True, but tubes and even those tiny ones do have one distinct advantage.
>When a thunderstorm rolls through town or you accidentally transmit into
>your pre-amp their chance of survival is orders of magnitude higher.
>Just imagine, when placing a hard 50V spike onto the grid a tube won't
>even flinch. A GaAs-FET or MMIC? Tsssk ... *BANG*.

Most part of the lightning electromagnetic radiation is at quite low
frequencies (below 1 MHz) and a typical VHF/UHF antenna will have a
quite low effective height at such low frequencies, thus not much low
frequency energy should enter the preamp.

However, during thunderstorms, quite large static charges can be
accumulated in ungrounded antenna elements and if there is a DC path

to the transistor, there is a significant risk of damage.

Using a folded dipole and grounding the center point will reduce the static build up. The folded dipole will also act as a very small magnetic loop, reducing the LF pickup of the lightning EM pulse. A strong DC path (such as a shorted 1/4 wavelength stub) from the amplifier input to ground will also reduce the DC and low frequency pickup, thus reducing the risk for dangerously large voltages at the transistor base/gate.

Paul OH3LWR

From 3758811561966250256
X-Google-Thread: fc2a5,29927434537d9c1
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!feeder.erje.net!feeder.news-service.com!cyclone02.ams2.highwinds-media.com!news.highwinds-media.com!npeersf02.ams.highwinds-media.com!newsfe19.ams2.POSTED!7564ea0f!not-for-mail
From: "Theo" <theodore.twyler@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
References: <149d9b88-500e-4a6e-b83a-a14110d93d8f@q16g2000yqg.googlegroups.com>
Subject: Re: Radio books
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
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X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe19.ams2 1238582220 86.15.186.181 (Wed, 01 Apr 2009 10:37:00 UTC)
NNTP-Posting-Date: Wed, 01 Apr 2009 10:37:00 UTC
Organization: virginmedia.com
Date: Wed, 1 Apr 2009 11:36:54 +0100
Xref: g2news1.google.com rec.radio.amateur.homebrew:2110

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
news:149d9b88-500e-4a6e-b83a-a14110d93d8f@q16g2000yqg.googlegroups.com...
>I am trying to remember the name of a radio book that was stolen from
> me years ago. It was a simple entry level book that had construction
> projects. It featured a series of valve transmitter each a little more
> complex and powerful than the next. A 1 valve 2 valve and a 3 valve tx
> that would put out 75 watts and used an 829B in the final in a push-
> pull configuration. It wasnt a large book and I remember the cover was
> black. Also stolen was a science project book that showed how to build
> cloud chambers, your own x- ray machine and a particle accelerator. I
> built the xray machiine and most of a siesmograph. I had put the

> siesmograph project on hold because I couldnt find some of the key
> parts.
>
> Jimmie

I remember a book from my youth which sounds like the one you may be
thinking of , it was called something like "The Scientific American Book of
Projects and Experiments"

Theo

```
From 6240847675360501182
X-Google-Thread: fc2a5,3a78cb4828ccc76a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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nlpi069.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Nuvistor TV preamp mod
References: <b8ab8090-d338-4dfd-8857-6c49a4ec75a1@c36g2000yqn.googlegroups.com>
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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 65
Message-ID: <1BMAl.17261$as4.11861@nlpi069.nbdc.sbc.com>
NNTP-Posting-Host: 75.26.176.225
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi069.nbdc.sbc.com 1238603197 ST000 75.26.176.225 (Wed, 01 Apr 2009
12:26:37 EDT)
NNTP-Posting-Date: Wed, 01 Apr 2009 12:26:37 EDT
Organization: at&t http://my.att.net/
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QCOA_SAH@TPD^\AL\RLGRFWEARBM
Date: Wed, 01 Apr 2009 09:26:33 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2408
```

Paul Keinanen wrote:

> On Tue, 31 Mar 2009 20:37:58 -0700, Joerg
> <notthisjoergsch@removethispacbell.net> wrote:
>
>> JIMMIE wrote:
>>> On Mar 27, 12:43 pm, Joerg <notthisjoerg...@removethispacbell.net>
>>> wrote:
>
>>>> From vague memory I think Geloso used them a lot and got a little under
>>>> 4dB out of those on 144MHz. In case anyone needs a datasheet:
>>>>
>>>> http://www.r-type.org/pdfs/6cw4.pdf
>
> According to this page
> http://www.amsat.org/amsat/archive/amsat-bb/200409/msg00451.html
> Geloso got 3.6 dB@50/144 MHz to 6.0 dB@432 MHz.
>
> The VHF numbers are still usable at terrestrial VHF communication due
> to the high band noise. For satellite and EME communication, the
> performance it not very good at VHF and practically useless on UHF.
>

Although back in those days UHF was reserved for the more well-heeled
hams. I thought the 2m performance that old John got out of the
nuvistors was pretty good.

>
>>> Tinkering with the nuvistors also sounded like fun. Well I now realize
>>> why you dont see projects based on them and noone is scouring the
>>> tables at the hamfest looking for nuvistors. There are better/easier
>>> of ways of skinning this cat. A DC to Daylight preamp using a MMIC
>>> may well have better NF and gain.
>>>
>> True, but tubes and even those tiny ones do have one distinct advantage.
>> When a thunderstorm rolls through town or you accidentally transmit into
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>> Just imagine, when placing a hard 50V spike onto the grid a tube won't
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>
> Most part of the lightning electromagnetic radiation is at quite low
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> quite low effective height at such low frequencies, thus not much low
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> magnetic loop, reducing the LF pickup of the lightning EM pulse. A
> strong DC path (such as a shorted 1/4 wavelength stub) from the
> amplifier input to ground will also reduce the DC and low frequency
> pickup, thus reducing the risk for dangerously large voltages at the

> transistor base/gate.
>

The trouble in my case was that this thing was also used for the upper shortwave bands, when doing duplex transmissions. Similar to what is nowadays called an active antenna. I didn't have the space for a 2nd large antenna, the first one was already quite a stretch. This was in Germany where properties are quite tiny.

--
73, Joerg

```
From 4768628868535955676
X-Google-Thread: fc2a5,67214346154f09ab,start
X-Google-Thread: fcc6e,67214346154f09ab,start
X-Google-Attributes: gidfc2a5,gidfcc6e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi064.nbdc.sbc.com.POSTED!476e347b!not-for-mail
From: "News Features" <news@lanews.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Silenced Hams Mean Safer County
Lines: 230
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
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X-Complaints-To: abuse@prodigy.net
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13:59:05 EDT)
NNTP-Posting-Date: Wed, 01 Apr 2009 13:59:05 EDT
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\@DMTLFZFUE@\VL
Date: Wed, 1 Apr 2009 10:59:08 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:2112
rec.radio.amateur.antenna:8938
```

SILENCED HAMS MEAN SAFER COUNTY

-from the Los Angeles Press-Telegram (4/1/2009)

San Luis Obispo county supervisors took drastic and unprecedented action yesterday by passing an ordinance that would prohibit amateur radio operators, known as "hams", from operating their transmitting stations. The measure was put in place to eliminate what officials said were health risks associated with transmitters located close to children. A legal struggle is expected.

By a vote of 4 to 1 with one abstention, the governing board of SLO county took action aimed at addressing a recent Stanford University study that showed a correlation between ham radios and attention deficit disorder and hyperactivity in children, as well as nagging reports of interference caused by radio hams operating their high-powered transmitters in residential neighborhoods.

"Our primary responsibility is to provide a safe environment for children to live without the dangerous effects of radio waves constantly bombarding them and causing proven neurological and psychological problems," said E. Duane Nyborg, an attorney who represented the county in several court cases in the past year. "Hams are not the only culprits, but they are usually in very close proximity to children and are no doubt a major contributor to the health problems we've been seeing. The interference is just the last straw that convinced the county that something had to be done about it."

Atascadero city manager Laura Lopez said that she has seen a tenfold increase in the number of complaints of interference from ham radio operators in the last six months. New housing developments which have dramatically increased the population there and placed homes unusually close to each other are the predominant contributing factor. Similar conditions exist in most of the county.

"We have radio hams getting into toasters, electric pianos, light bulbs, everything, from their powerful transmitters that cause all this static. Many of our citizens can't use basic appliances or watch television because of all the junk that the hams are broadcasting," she told the Press-Telegram by telephone.

Hams can't say they didn't see this coming. They were warned by the county last year that if they did not submit to a check of their stations by officials, they would have limits imposed on their operation. Few consented to the searches, which most decried as invasive. But nobody expected a total ban on transmissions.

"This is outrageous. You'd better believe we're going to fight back and win. This is a totalitarian seizure of our rights that is totally illegal and can't stand up," said Frank Wilson, a local ham club president. He said there were no formal plans for an appeal yet but preparations were underway.

Wilson claims that a federal preemption of local zoning ordinances, called PRB-1, delineates three rules for local municipalities to follow in accomodating antenna structures such as are used by hams. But Nyborg says that PRB-1 applies to antenna structures only, and not the transmitters used to feed the antennas with a radio signal. "We know all about PRB-1. That's why we said nothing about antennas. This law is not about antennas. It goes after the root of the problem, which is the transmitters that put out huge signals that get into the brains of our children and short-circuit them out. Those are the facts, that's what the scientific evidence points to," he said at a news conference called shortly after the county's action.

In 2008, a group of researchers in the school of Environmental Health and Safety at Stanford published their findings that exposure to ham radio signals for three hours per day increased the risk of hyperactivity and related disorders by 10% in children aged 12 and under. This effect was seen when a typical ham radio was turned on up to � mile away. The San Luis Obispo city office says that up to 11,000 children in that city live that close to a ham radio station.

The Stanford study showed that frequencies around 3.5, 7, and 14 Megahertz were the most harmful, but that the danger existed all the way up to 450 Megahertz and above.

"We know where the hams are, that information is easy to get on the Internet," said former mayor of Paso Robles and current county supervisor Anthony Wu. "Most of these guys are running one hundred watts of power, that's an incredible amount of radiation, and you can't block it out. It enters your house, it gets into your body and does a lot of damage there."

Cindy MacMahon, 41, of Morro Bay, soccer mom of two and volunteer at city bake sales, praised the action by the board of supervisors and looked forward to radio-free days ahead. "I'm always getting interference on my TV and stereo that I'm sure is from the guy down the street with his big tower. I don't know why they even allow those big, ugly things. I know that my kids are harder to control when he turns that thing on and I've been saying that for three years."

Most area hams were totally unaware of the new law and Wilson believes there will be a revolt when they discover it. "I will be speaking about it at our club meeting on Friday. We would normally disseminate the information by radio, but of course that's illegal for the moment."

Amateur radio operator Clay Collins of Pismo Beach, was incredulous. "We provide free emergency communications for the county, we assist the police department, we help out several times a year on all manner of public events, and this is the thanks we get. Someone is badly informed. Next thing you know, we'll be accused of being responsible for global warming." Another radio ham who identified himself only as "Deke" said that although a number of hams were mobilizing to do what they could he was pessimistic. "I actually know that Nyborg guy. He walks around twelve hours a day with a cell phone up to his head and yet he's worried about the tiny amount of radiation from my transmitter." Deke claims that the frequencies of a cell phone are close to that of a microwave oven. "You hold a [cell] phone up to your head, you're cooking your brain slowly," he warned.

Collins, a ham of fifty-three years and grandfather of six, lives in a housing tract with a homeowners' association that already regulates ham radio operators. He says that restrictive HOA agreements exacerbate the problem. "By prohibiting high antenna towers, [the HOA rules] force me to place my antennas lower and closer to my neighbors, and force me to use higher power to make up for the difference in performance." He said that his antenna, which is located in his attic, creates far more radiation on the ground than if it were up on a 50-foot tower-the same type of tower Collins applied for in 1997 but was denied a permit for. Hams are required by the FCC to keep track of the amount of radiation from their antennas but Collins' station is far below the allowable limits, he says. "In the next earthquake, all of my neighbors will be running to my house to send messages out to their loved ones in other places. I hope they remember this."

Dick Henley, a member of the Electronic Industries Association who lives in Ann Arbor, Michigan, claims that most of the interference to appliances, televisions, and phones can't be blamed on hams going about their normal activity. "The vast majority of these appliances is insufficiently shielded against external fields. The slightest interference- even from a garage door opener or a cell phone-can disrupt it. In most cases, it's not the ham's fault." He said that on the contrary, hams are usually the ones who must suffer with interference from these electronic devices. "Most of the stuff coming out of China spews interference to radios, but the hams have just learned to live with it. Homeowners are totally oblivious to this," he said.

Xiang Qang, the principal investigator at Stanford who co-published the original paper, explained that the radio waves, over the long term, polarize cells in the brain tissue and bias a child toward rough or anti-social behavior. "We saw these children who couldn't sit still, couldn't listen to a book being read to them, and who had severe reading delays and disabilities. We started to see that each time a television was turned on near them, they would actually exhibit worse behavior. So we followed that path: why the television? Why the television? Then we discovered that is wasn't the television, but the radiation from it. So we tested many other types of transmitters and found that the worst ones were ham transmitters from Icom and Yaesu, with the Kenwoods being marginally better."

Qang explains that it is the brain's frontal lobe which is most vulnerable to external radiation due to its location at the front of the cranium just behind the forehead, its proximity to the sphenoid wing- the bone at the temple that houses the pituitary gland- and it's large size. "The frontal lobe absorbs a lot of radiation and since it governs our behavior, this is why we think that attention deficit and hyperactivity are the symptoms of prolonged absorption of high-frequency waves in that region," she said.

"Nonsense," says Dr. V. Subrahaminayalakshminirayana, head of neurology at Kaiser Permanente in San Francisco. "There is absolutely no conclusive evidence in the literature to support an ambitious and imaginative theory that ionizing radiation can deleteriously and negatively affect behavior in children whether the exposure is at a relatively constant low-level or periodic." He believes that attention deficit hyperactivity is more likely a function of exhaustive over-stimulation of the brain by video games, texting, and television viewing. "Ask the Asian parents of your child's playmate why they never seem to have this problem," he laughed.

In fact, the Stanford study found that Hispanic children were fourteen times as likely to suffer the effects of radio waves than were Asian children. Hydra Brock-Parker, dean of sociology at Cal Poly San Luis Obispo and a consultant named in the Stanford study, says that Hispanics live in depressed parts of a city where houses and apartments are packed closer together and the possibility of exposure is much greater. "Where are all of those children going to go to escape radiation from transmitters? There's no backyard to play in and besides, you wouldn't want your children playing outside in those neighborhoods. If you've got, you know, a ham serial-killer type next door flooding your apartment with high-intensity radio waves, you have no choice but to sit there and get sick," she said.

Representatives from Marin, Ventura, and Los Angeles counties were present at the press conference and were said to be keenly interested in the implementation of the new law. A similar measure was introduced into the L.A. County Board's docket on Monday and may be considered at the next session in May.

From -692479069968529519
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news-1.dfn.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Reinhard Zwirner <reinhard_zwirner@web.de>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Silenced Hams Mean Safer County
Date: Wed, 01 Apr 2009 20:27:44 +0200
Lines: 7
Message-ID: <49D3B220.B5A9E29A@t-online.de>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:2113
rec.radio.amateur.antenna:8939

News Features schrieb:
>
> SILENCED HAMS MEAN SAFER COUNTY

I do really hope that this article is related to today's date ...

Reinhard

From -7717803142645647342
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newsswitch.lcs.mit.edu!news.uchicago.edu!nntp-server.caltech.edu!

```
news.jpl.nasa.gov!not-for-mail
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Silenced Hams Mean Safer County
Date: Wed, 01 Apr 2009 15:25:20 -0700
Organization: JPL Information Services, InterNetNews
Lines: 8
Message-ID: <gr0pkh$ome$2@news.jpl.nasa.gov>
References: <JXNAl.23466$Ws1.4318@nlpi064.nbdc.sbc.com> <49D3B220.B5A9E29A@t-
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User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
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Xref: g2news2.google.com rec.radio.amateur.homebrew:2411
rec.radio.amateur.antenna:10719

Reinhard Zwirner wrote:
> News Features schrieb:
>> SILENCED HAMS MEAN SAFER COUNTY
>
> I do really hope that this article is related to today's date ...
>
> Reinhard
Google "Los Angeles Press-Telegram", the purported source..


From 5360447639811870890
X-Google-Thread: fc2a5,67214346154f09ab
X-Google-Thread: fcc6e,67214346154f09ab
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X-Google-Language: ENGLISH,ASCII-7-bit
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news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
References: <JXNAl.23466$Ws1.4318@nlpi064.nbdc.sbc.com>
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Lines: 19
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Content-Type: text/plain;
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Content-Transfer-Encoding: 7bit
X-Priority: 3
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Xref: g2news2.google.com rec.radio.amateur.homebrew:2412 rec.radio.amateur.antenna:10728

lanews.com is a fake spam site

So how do you keep April fools jokes from being picked up by wackos that quote it as gospel and try to institute illegal measures in their own jurisdiction to drag people down by forcing them to defend themselves at great cost or default, like they tried to do in Lancaster.

Quit picking on ham radio.

Instead, lets tell the one where the leader decides a small but identifiable group is to blame for all the ills of the world and should be outlawed, forced to labor and finally exterminated. Oh wait! That really happened!

"News Features" <news@lanews.com> wrote in message
news:JXNAl.23466$Ws1.4318@nlpi064.nbdc.sbc.com...

> SILENCED HAMS MEAN SAFER COUNTY

From 667259624012472267
X-Google-Thread: fc2a5,67214346154f09ab
X-Google-Thread: fcc6e,67214346154f09ab
X-Google-Attributes: gidfc2a5,gidfcc6e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 02 Apr 2009 17:01:00 -0500
Date: Thu, 02 Apr 2009 22:00:59 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Silenced Hams Mean Safer County
References: <JXNAl.23466$Ws1.4318@nlpi064.nbdc.sbc.com>
In-Reply-To: <JXNAl.23466$Ws1.4318@nlpi064.nbdc.sbc.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

```
Message-ID: <VMOdndzSkf4BqEjUnZ2dnUVZ_trinZ2d@bright.net>
Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-3HP07geAsH++kDP1bH7m8jiThSM426wsXyCEpnF/h8s2ykQNHC/ABH3pSPuNWh+/
mT+qGQMvXuW4Wfp!qqHhTfZmXK7CjPo4M54/OnRMZ+am+Gv/
KKboHv9GFOIaQw9WPFzRiSy46SInTg8ab3gCdTUp/W28!4qvqAle1dA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1795
Xref: g2news1.google.com rec.radio.amateur.homebrew:2116
rec.radio.amateur.antenna:8961
```

News Features wrote:

> SILENCED HAMS MEAN SAFER COUNTY
>
>
>
>
>
> -from the Los Angeles Press-Telegram (4/1/2009)
>
>
>
>
>
> San Luis Obispo county supervisors took drastic and unprecedented action
> yesterday by passing an ordinance that would prohibit amateur radio
> operators, known as "hams", from operating their transmitting stations. The
> measure was put in place to eliminate what officials said were health risks
> associated with transmitters located close to children. A legal struggle is
> expected.

Good thing this came out on APRIL FIRST...

```
From -6727790715039451092
X-Google-Thread: fc2a5,3a78cb4828ccc76a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!p11g2000yqe.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Nuvistor TV preamp mod
Date: Thu, 2 Apr 2009 16:23:01 -0700 (PDT)
```

```
Organization: http://groups.google.com
Lines: 85
Message-ID: <7d0b6cc1-23ce-43b2-9454-87df1ac1ff01@p11g2000yqe.googlegroups.com>
References: <b8ab8090-d338-4dfd-8857-6c49a4ec75a1@c36g2000yqn.googlegroups.com>
     <49c1b2d6$0$4955$9a6e19ea@unlimited.newshosting.com> <fca765c0-750c-48fc-
aed7-6ecfc20d83c8@e35g2000yqc.googlegroups.com>
     <1b2b82c0-a044-4a64-94b7-b380ec118c23@l22g2000vba.googlegroups.com>
     <5n7zl.10750$%54.6437@nlpi070.nbdc.sbc.com> <21a42443-cfc9-4353-
ae28-71b13a8f9dce@y13g2000yqn.googlegroups.com>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1238714581 14656 127.0.0.1 (2 Apr 2009 23:23:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 2 Apr 2009 23:23:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p11g2000yqe.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2117

On Mar 31, 11:16=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> On Mar 27, 12:43=A0pm, Joerg <notthisjoerg...@removethispacbell.net>
> wrote:
>
>
>
>
>
> > JIMMIE wrote:
> > > On Mar 27, 3:59 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> > >> On Mar 18, 10:50 pm, RFI-EMI-GUY <Rhyol...@NETTALLY.COM> wrote:
>
> > >>> JIMMIE wrote:
> > >>>> I have 3 mast mounted nuvistor pre amps less power supplies. I was
> > >>>> looking for information on these to convert them to use on the 6 a=
nd 2
> > >>>> meter =A0and 70cm ham bands. I may still have a power supply aroun=
d but
> > >>>> as of yet I havent been able to find it. The pre amps are mount in=
 a
> > >>>> somewhat egg shaped plastic container with twin lead connections o=
n
> > >>>> them. Im not sure of the manufacturer. Schematics on the amplifier=
s
> > >>>> and power supplies would be nice. Directions on doing the mod woul=
d be
> > >>>> great. There are plans for ham band nuvistor preamps around so if =
I
> > >>>> could figure out what I have it shouldnt be that difficult to conv=
```

er
> > >>>> it to what I want. Besides that it will give me something to do wi=
th
> > >>>> these old 6cw4s.
> > >>>> Jimmie
> > >>> You would do good to find a 70's or earlier ARRL handbook. There we=
re
> > >>> many articles about Nuvistors.
> > >>> --
> > >>> Joe Leikhim K4SAT
> > >>> "The RFI-EMI-GUY"=A9
> > >>> "Use only Genuine Interocitor Parts" Tom Servo =A0;-P
> > >> Well I got a little 2M nuvistor pre-amp put together last night. Im
> > >> not sure of the noise figure of the amp but according to my S meter =
it
> > >> must have about at least 20 db of gain, maybe 30.
>
> > >> I will have to take it into work were I have the =A0test equipment t=
o
> > >> check it out better.
>
> > >> Jimmie- Hide quoted text -
>
> > >> - Show quoted text -
>
> > > Anyone know what kind of noise figure I could expect out of a 6cw4
> > > nuvistor preamp. I only saw one reference and it mentioned 3db but
> > > mostly all the other references just talked about gain.
>
> > =A0From vague memory I think Geloso used them a lot and got a little un=
der
> > 4dB out of those on 144MHz. In case anyone needs a datasheet:
>
> >http://www.r-type.org/pdfs/6cw4.pdf
>
> > --
> > 73, Joerg- Hide quoted text -
>
> > - Show quoted text -
>
> Thanks, I was just trrying to finish up a project I started years ago,
> my wife had been getting on to me about not completing what I start.
> Tinkering with the nuvistors also sounded like fun. Well I now realize
> why you dont see projects based on them and noone is scouring the
> tables at the hamfest looking for nuvistors. There are better/easier
> of ways =A0of skinning this cat. A DC to Daylight preamp using a MMIC
> may well have better NF and gain.
>
> Jimmie- Hide quoted text -
>
> - Show quoted text -

OH, what the heck,Since I got the preamp stage built I might as well build a 2M to 10M rx converter.

Jimmie

```
From -9032153699135864329
X-Google-Thread: fc2a5,67214346154f09ab
X-Google-Thread: fcc6e,67214346154f09ab
X-Google-Attributes: gidfc2a5,gidfcc6e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!n33g2000vba.googlegroups.com!not-for-
mail
From: stan <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Silenced Hams Mean Safer County
Date: Fri, 3 Apr 2009 05:43:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 28
Message-ID: <cc0486b7-fe6a-4950-97cd-6945d1c2efae@n33g2000vba.googlegroups.com>
References: <JXNAl.23466$Ws1.4318@nlpi064.nbdc.sbc.com>
<VMOdndzSkf4BqEjUnZ2dnUVZ_trinZ2d@bright.net>
NNTP-Posting-Host: 142.162.128.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1238762602 593 127.0.0.1 (3 Apr 2009 12:43:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 3 Apr 2009 12:43:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n33g2000vba.googlegroups.com; posting-host=142.162.128.246;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB5),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2118
rec.radio.amateur.antenna:8975

On Apr 2, 7:00=A0pm, Scott <acepilotREM...@bloomer.net> wrote:
> News Features wrote:
> > SILENCED HAMS MEAN SAFER COUNTY
>
> > -from the Los Angeles Press-Telegram (4/1/2009)
>
> > San Luis Obispo county supervisors took drastic and unprecedented actio=
n
> > yesterday by passing an ordinance that would prohibit amateur radio
> > operators, known as "hams", from operating their transmitting stations.=
 The
> > measure was put in place to eliminate what officials said were health r=
isks
> > associated with transmitters located close to children. A legal struggl=
e is
> > expected.
```

>
> Good thing this came out on APRIL FIRST...- Hide quoted text -
>
> - Show quoted text -

Reminds one of an outburst of complaints about interferenec to to TV
from one UK radio amateur station back in the 1950s.
While Britain had some TV back in 1937 the 1950s saw a fast growing
increase in domestic TV set ownership; quickly nicknamed 'The Telly'.
The interference complaints bubble burst rather rapidly when it turned
out the amateur in question, ad all his family, had been away from
home for the entire period of the complaints!

```
From -5795106063560301649
X-Google-Thread: fc2a5,90a989b032f13f4c,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q9g2000yqc.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: nixie driver
Date: Fri, 3 Apr 2009 07:34:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 9
Message-ID: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1238769256 27886 127.0.0.1 (3 Apr 2009 14:34:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 3 Apr 2009 14:34:16 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q9g2000yqc.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2416
```

I have a Systron Donner frequency counter that uses Nixie tubes. The
counter works fine but I am forever replacing the Nixie drivers
74141s. I started to use it this AM an one was out. Is there a
replacement for the 74141, I couldnt find one, or is there a circuit I
could build on a DIP header to replace them. I could probably design
one but I wanted something tried an tested as I dont want to put my
counter board at more risk than I have to.

Jimmie

```
From 1001002893624565450
X-Google-Thread: fc2a5,90a989b032f13f4c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe21.iad.POSTED!7564ea0f!not-for-mail
From: Bruce W. Ellis <ellis@means.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: nixie driver
Organization: Not much
Reply-To: ellis*nospam*@means.net
Message-ID: <dpcct4ll7oq0nul287n92edue7b0r3d61q@4ax.com>
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
X-Newsreader: Forte Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 18
NNTP-Posting-Host: cemanefaibpodkimbbgkebpicgchjoji
X-Complaints-To: abuse@charter.net
X-Trace:
jeofijbaflpkodfamcjobjcmnmlfmhhakpgfmikfhagpenjmcemanefaibpodkimofcnbohckcbeklaogb
cngkandjemhbmoedhggecnjoijjjofenficboaokjbcmgenbbjahdmbpmhjpdc
NNTP-Posting-Date: Fri, 03 Apr 2009 16:06:58 UTC
Date: Fri, 03 Apr 2009 11:06:09 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:2417

On Fri, 3 Apr 2009 07:34:16 -0700 (PDT), JIMMIE
<JIMMIEDEE123@YAHOO.COM> wrote:

>I have a Systron Donner frequency counter that uses Nixie tubes. The
>counter works fine but I am forever replacing the Nixie drivers
>74141s. I started to use it this AM an one was out. Is there a
>replacement for the 74141, I couldnt find one, or is there a circuit I
>could build on a DIP header to replace them. I could probably design
>one but I wanted something tried an tested as I dont want to put my
>counter board at more risk than I have to.
>
>Jimmie

You might try reducing the current to the nixies by adding some series
resistance.  Those 74141s are going to get hard to get.  I made a
clock with nixies in the early 70's and it is still working fine.

W0BF


From 3420676562970388278
X-Google-Thread: fc2a5,67214346154f09ab
X-Google-Thread: fcc6e,67214346154f09ab
X-Google-Attributes: gidfc2a5,gidfcc6e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!news-in-02.newsfeed.easynews.com!easynews.com!easynews!news.he.net!news.snarked.org!
not-for-mail
From: "D. Stussy" <spam@bde-arc.ampr.org>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Silenced Hams Mean Safer County
Date: Fri, 3 Apr 2009 17:32:23 -0700
Lines: 21
Message-ID: <gr69r5$l4t$1@aux.snarked.org>
References: <JXNAl.23466$Ws1.4318@nlpi064.nbdc.sbc.com> <49D3B220.B5A9E29A@t-online.de> <gr0pkh$ome$2@news.jpl.nasa.gov>
Reply-To: "D. Stussy" <replies@newsgroups.kd6lvw.ampr.org>
NNTP-Posting-Host: pool-71-106-211-188.lsanca.dsl-w.verizon.net
X-Trace: aux.snarked.org 1238805157 21661 71.106.211.188 (4 Apr 2009 00:32:37 GMT)
X-Complaints-To: newsmaster@snarked.org
NNTP-Posting-Date: Sat, 4 Apr 2009 00:32:37 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Xref: g2news2.google.com rec.radio.amateur.homebrew:2418
rec.radio.amateur.antenna:10778

"Jim Lux" <james.p.lux@jpl.nasa.gov> wrote in message
news:gr0pkh$ome$2@news.jpl.nasa.gov...

> Reinhard Zwirner wrote:
> > News Features schrieb:
> >> SILENCED HAMS MEAN SAFER COUNTY
> >
> > I do really hope that this article is related to today's date ...
> >
> > Reinhard
> Google "Los Angeles Press-Telegram", the purported source..

RE- google: And your point is?

Although the main newspaper in LA (City) is the Times, there is a newspaper in LA County called the Press-Telegram. It's in Long Beach.

The date of the article is conclusive; the name of the alleged newspaper is NOT - it's a common mistake. The LBPT does have some readership in LA. It's one of the County's major regional papers.

From -6120200543981489213
X-Google-Thread: fc2a5,90a989b032f13f4c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news.alt.net!
news.astraweb.com!border5.newsrouter.astraweb.com!not-for-mail

From: geek <geek@localhost.localdomain>
Subject: Re: nixie driver
Date: Fri, 03 Apr 2009 23:20:36 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2009.04.04.06.20.36.514124@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 6
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: df4718e1.news.astraweb.com
X-Trace: DXC=92C9YKRijghMm1IZKF?@MbL?
0kYOcDh@jYMF1K]Zc@Ei[m]jKSSSC0mFDS<UL7kA@lnh2cCTA><0oc8B5`?GblRbiZkK5V;eOoe
Xref: g2news2.google.com rec.radio.amateur.homebrew:2419

Yeah, a handful of MPSA42.

If you find a reliable source of 74141, I'm in for some too.

Cheers!

From -1239517755165193656
X-Google-Thread: fc2a5,90a989b032f13f4c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!f4af025b!not-for-
mail
From: "Norm Mann" <folder0735@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
Subject: Re: nixie driver
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <zQDBl.1517$Q52.623@nwrddc02.gnilink.net>
Date: Sat, 04 Apr 2009 07:17:51 GMT
NNTP-Posting-Host: 71.102.225.245
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1238829471 71.102.225.245 (Sat, 04 Apr 2009 03:17:51
EDT)
NNTP-Posting-Date: Sat, 04 Apr 2009 03:17:51 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:2123

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
news:83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com...

>I have a Systron Donner frequency counter that uses Nixie tubes. The
> counter works fine but I am forever replacing the Nixie drivers
> 74141s. I started to use it this AM an one was out. Is there a
> replacement for the 74141, I couldnt find one, or is there a circuit I
> could build on a DIP header to replace them. I could probably design
> one but I wanted something tried an tested as I dont want to put my
> counter board at more risk than I have to.

The 7441 appears to be pin-for-pin compatible, but with a different decode pattern (one element is always on). It sounds like you might first want to check the nixie power supply voltage, not just using a voltmeter, but with a scope to see if it has spikes which might be destroying your driver outputs. This is much more likely if the counter is using leading zero suppression and the failed drivers are in the group which often in the blanked state.

HTH,

-NM

From -6363904640762594214
X-Google-Thread: fc2a5,67214346154f09ab
X-Google-Thread: fcc6e,67214346154f09ab
X-Google-Attributes: gidfc2a5,gidfcc6e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews5.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Mozilla-Thunderbird 2.0.0.19 (X11/20090103)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Silenced Hams Mean Safer County
References: <JXNAl.23466$Ws1.4318@nlpi064.nbdc.sbc.com> <49D3B220.B5A9E29A@t-online.de>
In-Reply-To: <49D3B220.B5A9E29A@t-online.de>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 11
Message-ID: <QvJBl.24607$v8.5525@bignews5.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcbojbobfggnpklmmdoahpibdmhglmjhdnidnf
jgpjikdjhijjommkdakffhajmlbojijbaohfbofmmmkjljdbnmoidlikdgjaokfhmnjcldkjelblnp
NNTP-Posting-Date: Sat, 04 Apr 2009 09:45:20 EDT
Organization: BellSouth Internet Group

```
Date: Sat, 04 Apr 2009 09:55:58 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:2124
rec.radio.amateur.antenna:9011

Reinhard Zwirner wrote:
> News Features schrieb:
>> SILENCED HAMS MEAN SAFER COUNTY
>
> I do really hope that this article is related to today's date ...
>
> Reinhard
It is.
If it were real, it would be the first law I'd break, then after
being arrested take the bastards to federal court, sue, win a gazillion
dollars and retire.


From 3630971457322079956
X-Google-Thread: fc2a5,90a989b032f13f4c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews5.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Mozilla-Thunderbird 2.0.0.19 (X11/20090103)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: nixie driver
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
In-Reply-To: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 15
Message-ID: <EyJBl.24609$v8.6061@bignews5.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcbobeginkedbbehegnnhpibdmhglmjhdnidnf
jgpjikdjhijjommkdakffhajmlbojijbaohfbofmmmkjljhepibidmaaicippffhmnjcldkjelblnp
NNTP-Posting-Date: Sat, 04 Apr 2009 09:48:20 EDT
Organization: BellSouth Internet Group
Date: Sat, 04 Apr 2009 09:58:57 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:2125

JIMMIE wrote:
> I have a Systron Donner frequency counter that uses Nixie tubes. The
> counter works fine but I am forever replacing the Nixie drivers
> 74141s. I started to use it this AM an one was out. Is there a
> replacement for the 74141, I couldnt find one, or is there a circuit I
> could build on a DIP header to replace them. I could probably design
> one but I wanted something tried an tested as I dont want to put my
```

> counter board at more risk than I have to.
>
> Jimmie

The chips are failing for one of two reasons, over voltage or over current. Try reducing the supply voltage to the minimum that will light the nixies. Also try heatsinking the 74141's. They do make clip on heatsinks for dip packages, but you can just superglue scraps of aluminum to the top of the chips.

```
From 2748248124863464959
X-Google-Thread: fc2a5,90a989b032f13f4c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!37g2000yqp.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: nixie driver
Date: Sat, 4 Apr 2009 08:09:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 30
Message-ID: <f25fafc3-51f3-4a48-a8fc-f4e351e50431@37g2000yqp.googlegroups.com>
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
     <EyJBl.24609$v8.6061@bignews5.bellsouth.net>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1238857766 12315 127.0.0.1 (4 Apr 2009 15:09:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 4 Apr 2009 15:09:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 37g2000yqp.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2423
```

On Apr 4, 9:58=A0am, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:

> JIMMIE wrote:
> > I have a Systron Donner frequency counter that uses Nixie tubes. The
> > counter works fine but I am forever replacing the Nixie drivers
> > 74141s. I started to use it this AM an one was out. Is there a
> > replacement for the 74141, I couldnt find one, or is there a circuit I
> > could build on a DIP header to replace them. I could probably design
> > one but I wanted something tried an tested as I dont want to put my
> > counter board at more risk than I have to.
>
> > Jimmie
>
> The chips are failing for one of two reasons, over voltage or over

> current. =A0Try reducing the supply voltage to the minimum that will ligh=
t
> the nixies. =A0Also try heatsinking the 74141's. =A0They do make clip on
> heatsinks for dip packages, but you can just superglue scraps of
> aluminum to the top of the chips.

This has been a problem on two different Systron Donner counters I own
and one we used at work years ago. It was such a regular thing at work
we added sockets to facilitate replacing the chips. I have done
likewise to mine but only as the chips failed. There are still a
couple of origonal chips in it. Mycounters are model 6153. I have
never had a schematic or manual for them and
This makes maintaining them a little difficult but having two of them
helps allowing me to compare signals and swap boards to help isolate
problems. If anyone has a schematic I would greatly appreciate it.

Jimmie

```
From -4139595627821055287
X-Google-Thread: fc2a5,67214346154f09ab
X-Google-Thread: fcc6e,67214346154f09ab
X-Google-Attributes: gidfc2a5,gidfcc6e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 04 Apr 2009 11:27:28 -0500
Date: Sat, 04 Apr 2009 16:27:28 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Silenced Hams Mean Safer County
References: <JXNAl.23466$Ws1.4318@nlpi064.nbdc.sbc.com> <49D3B220.B5A9E29A@t-
online.de> <QvJBl.24607$v8.5525@bignews5.bellsouth.net>
In-Reply-To: <QvJBl.24607$v8.5525@bignews5.bellsouth.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <lNWdnc5yE8TtF0rUnZ2dnUVZ_rudnZ2d@bright.net>
Lines: 16
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-93AqBmEChoy/
fjKULE7lfY7iaFoWdNHjQFjDq2S1oZCsnNQc8IOXUz59zDceDRV0gwJuAHei7XkZrq8!
4qd1Sh6cRsfcgS7YFl22bnW3w6mYvBbKC+j9dkbAim2axeusniTXxUnkdf9Hlk69/+NhpPHhYGdb!
3oLZsTfK3Q==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1761
Xref: g2news2.google.com rec.radio.amateur.homebrew:2424
```

```
rec.radio.amateur.antenna:10793

ken scharf wrote:
> Reinhard Zwirner wrote:
>> News Features schrieb:
>>> SILENCED HAMS MEAN SAFER COUNTY
>>
>> I do really hope that this article is related to today's date ...
>>
>> Reinhard
> It is.
> If it were real, it would be the first law I'd break, then after
> being arrested take the bastards to federal court, sue, win a gazillion
> dollars and retire.

Would that be a gazillion dollars hot off the printing presses?  You
might want to get that payment in gold and silver ;)




From 4399932850628246353
X-Google-Thread: fc2a5,67214346154f09ab
X-Google-Thread: fcc6e,67214346154f09ab
X-Google-Attributes: gidfc2a5,gidfcc6e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
References: <JXNAl.23466$Ws1.4318@nlpi064.nbdc.sbc.com> <49D3B220.B5A9E29A@t-
online.de> <gr0pkh$ome$2@news.jpl.nasa.gov> <gr69r5$l4t$1@aux.snarked.org>
Subject: Re: Silenced Hams Mean Safer County
Lines: 12
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <E8NBl.1530$6n.937@nwrddc01.gnilink.net>
Date: Sat, 04 Apr 2009 17:53:40 GMT
NNTP-Posting-Host: 173.55.75.39
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1238867620 173.55.75.39 (Sat, 04 Apr 2009 13:53:40
EDT)
NNTP-Posting-Date: Sat, 04 Apr 2009 13:53:40 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2425
rec.radio.amateur.antenna:10796
```

```
> Although the main newspaper in LA (City) is the Times, there is a
newspaper
> in LA County called the Press-Telegram.  It's in Long Beach.
>
> The date of the article is conclusive; the name of the alleged newspaper
is
> NOT - it's a common mistake.  The LBPT does have some readership in LA.
> It's one of the County's major regional papers.
>
But the story can't be found on their website, nor can any story referenced
to ham radio.



From 5466233993979774411
X-Google-Thread: fc2a5,2e351383df16bcb9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wn13feed!worldnet.att.net!bgtnsc04-
news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
From: "RadioGuy" <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
References: <nvqyl.484582$Mh5.400664@bgtnsc04-news.ops.worldnet.att.net>
     <2p1os45j6u9rqpdc17eiport9tpi4a70nh@4ax.com>
<49cc1a4f$0$31214$bd467cd0@news.dslextreme.com>
<ua3zl.84854$4m1.66260@bgtnsc05-news.ops.worldnet.att.net> <c5abd0cd-e5c6-4f2a-
b119-6ff2ea3c6c6f@e25g2000vbe.googlegroups.com> <gqjdn601lsv@news4.newsguy.com>
<uTvzl.87505$4m1.30306@bgtnsc05-news.ops.worldnet.att.net>
Subject: Re: Boys Book Of Radio And Electronics - Destroyed!
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
Message-ID: <dOSBl.524136$Mh5.272210@bgtnsc04-news.ops.worldnet.att.net>
Date: Sun, 05 Apr 2009 00:19:21 GMT
NNTP-Posting-Host: 12.78.47.3
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1238890761 12.78.47.3 (Sun, 05 Apr
2009 00:19:21 GMT)
NNTP-Posting-Date: Sun, 05 Apr 2009 00:19:21 GMT
Organization: AT&T Worldnet
Xref: g2news1.google.com rec.radio.amateur.homebrew:2129


"RadioGuy" <nospam@nospam.com> wrote in message
news:uTvzl.87505$4m1.30306@bgtnsc05-news.ops.worldnet.att.net...
>
> "Bill M" <radioexray@geemail.com> wrote in message
> news:gqjdn601lsv@news4.newsguy.com...
```

>> http://www.snopes.com/inboxer/pending/cpsia.asp
>
> Good link and the references were appreciated though the discussion was a
> bit confusing.
>
> So in other words to all those that have suspect items; err on the safe
> side and discard them safely so as to avoid any possible infractions and
> liabilities.
>

I guess CPSC isn't stopping with books... now its all terrain vehicles!

It seems that CPSC is using lead as a method of legislating anything 'they' don't want out of existence by claiming that it is unsafe for childeren. I don't see this trend stopping anytime soon---it will be interesting to see whats next.

From 7228748912935317496
X-Google-Thread: fc2a5,ec0cda4bc0391a16,start
X-Google-Thread: 1109af,ec0cda4bc0391a16,start
X-Google-Attributes: gidfc2a5,gid1109af,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!news2.glorb.com!feed.cgocable.net!read1.cgocable.net.POSTED!53ab2750!not-for-mail
From: "Norm VE3CZI" <ve3czi@arrl.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.swap
Subject: Wanted: Info on Testing Cordless Phones
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Message-ID: <nD4Cl.23509$gf.3673@read1.cgocable.net>
Date: Sun, 5 Apr 2009 12:03:26 -0400
NNTP-Posting-Host: 24.141.81.109
X-Complaints-To: news@cogeco.net
X-Trace: read1.cgocable.net 1238947411 24.141.81.109 (Sun, 05 Apr 2009 12:03:31 EDT)
NNTP-Posting-Date: Sun, 05 Apr 2009 12:03:31 EDT
Organization: Cogeco Cable
Xref: g2news1.google.com rec.radio.amateur.homebrew:2130 rec.radio.swap:1500

I have been requested to test some of those Cordless Telephones that are so popular today.
However, We have a Computerized Phone System and can not get to an outside line to get the 50V and Dial Tone to test the incoming rings OR to test it's outgoing operation.

Does anyone (1) Have or know of a device that I could buy or (2) Information & Schematic so I could construct such a device myself.

Tnx for all comments...... 73...Norm VE3CZI   www.rodemi.com

From -5412453459307549013
X-Google-Thread: fc2a5,ec0cda4bc0391a16
X-Google-Thread: 1109af,ec0cda4bc0391a16
X-Google-Attributes: gidfc2a5,gid1109af,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!gnilink.net!nx02.iad01.newshosting.com!newshosting.com!198.186.194.249.MISMATCH!transit3.readnews.com!news-out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: "Geoffrey S. Mendelson" <gsm@mendelson.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.swap
Subject: Re: Wanted: Info on Testing Cordless Phones
Date: Sun, 5 Apr 2009 19:57:17 +0000 (UTC)
Organization: MGT Consulting
Lines: 20
Message-ID: <slrngti39a.cei.gsm@cable.mendelson.com>
References: <nD4Cl.23509$gf.3673@read1.cgocable.net>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-138-172-164.bb.netvision.net.il
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: max.inside.misty.com 1238961437 26427 89.138.172.164 (5 Apr 2009 19:57:17 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Sun, 5 Apr 2009 19:57:17 +0000 (UTC)
User-Agent: slrn/pre0.9.9-111 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2428 rec.radio.swap:1922

Norm VE3CZI wrote:
> I have been requested to test some of those Cordless Telephones that are so
> popular today.
> However, We have a Computerized Phone System and can not get to an outside
> line to get the 50V and Dial Tone to test the incoming rings OR to test it's
> outgoing operation.
>
> Does anyone (1) Have or know of a device that I could buy or (2)
> Information & Schematic so I could construct such a device myself.

Linksys PAP2 or any one of the hundreds of other devices?

If you are not into SIP, you can get one that connects via USB to a computer
and is driven by SKYPE.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM

```
From -6313328369276315755
X-Google-Thread: fc2a5,67214346154f09ab
X-Google-Thread: fcc6e,67214346154f09ab
X-Google-Attributes: gidfc2a5,gidfcc6e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
flpi143.ffdc.sbc.com.POSTED!9ba57bb5!not-for-mail
From: "David G. Nagel" <nagel.david@sbcglobal.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Silenced Hams Mean Safer County
References: <JXNAl.23466$Ws1.4318@nlpi064.nbdc.sbc.com>
<0R7Bl.1196$6n.319@nwrddc01.gnilink.net>
In-Reply-To: <0R7Bl.1196$6n.319@nwrddc01.gnilink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 32
Message-ID: <kn9Cl.4951$Lr6.2011@flpi143.ffdc.sbc.com>
NNTP-Posting-Host: 75.61.53.11
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi143.ffdc.sbc.com 1238966864 ST000 75.61.53.11 (Sun, 05 Apr 2009
17:27:44 EDT)
NNTP-Posting-Date: Sun, 05 Apr 2009 17:27:44 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
[[PGGYCERJWKBQYYORNVOTTDFZ\@@FXLM@TDOCQDJ@_@FN\CDVW[AKK[J\]^HVKHG^EWZHBLO^[\NH_AZF
WGN^\DHNVMX_DHHX[FSQKBOTS@@BP^]C@RHS_AGDDC[AJM_T[GZNRNZAY]GNCPBDYKOLK^_CZFWPGHZIXW
@C[AFKBBQS@E@DAZ]VDFUNTQQ]FN
Date: Sun, 05 Apr 2009 16:31:02 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:2132
rec.radio.amateur.antenna:9031
```

JB wrote:

> lanews.com is a fake spam site
>
> So how do you keep April fools jokes from being picked up by wackos that quote it as gospel and try to institute illegal measures in their own jurisdiction to drag people down by forcing them to defend themselves at great cost or default, like they tried to do in Lancaster.
>
> Quit picking on ham radio.
>
> Instead, lets tell the one where the leader decides a small but identifiable group is to blame for all the ills of the world and should be outlawed, forced to labor and finally exterminated. Oh wait! That really happened!

>
>
>
> "News Features" <news@lanews.com> wrote in message
> news:JXNAl.23466$Ws1.4318@nlpi064.nbdc.sbc.com...
>> SILENCED HAMS MEAN SAFER COUNTY
>

Gentlemen and Ladies;

Let's not forget that this story is purported to occur in the Peoples Democratic Republic of California. There was a City Council out there that recently tried to ban the possession of DiHydrogen MonoOxide as a deadly and extremely hazardous substance. The measure almost passed when someone noticed that the chemical formula was H20.....

Anything can happen out there in the land of fruits and nuts. (with apologizes to my relatives in San Diego.

```
From -4299286033123948454
X-Google-Thread: fc2a5,ec0cda4bc0391a16
X-Google-Thread: 1109af,ec0cda4bc0391a16
X-Google-Attributes: gidfc2a5,gid1109af,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.swap
References: <nD4Cl.23509$gf.3673@read1.cgocable.net>
<slrngti39a.cei.gsm@cable.mendelson.com>
Subject: Re: Wanted:  Info on Testing Cordless Phones
Lines: 1
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <fleCl.1936$Q52.1526@nwrddc02.gnilink.net>
Date: Mon, 06 Apr 2009 03:06:51 GMT
NNTP-Posting-Host: 173.55.67.191
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1238987211 173.55.67.191 (Sun, 05 Apr 2009 23:06:51
EDT)
NNTP-Posting-Date: Sun, 05 Apr 2009 23:06:51 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:2133 rec.radio.swap:1504
```

Call the phone guy.

From 4677546671998108043
X-Google-Thread: fc2a5,ec0cda4bc0391a16
X-Google-Thread: 1109af,ec0cda4bc0391a16
X-Google-Attributes: gidfc2a5,gid1109af,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!nlpi070.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.swap
Subject: Re: Wanted: Info on Testing Cordless Phones
References: <nD4Cl.23509$gf.3673@read1.cgocable.net>
In-Reply-To: <nD4Cl.23509$gf.3673@read1.cgocable.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 19
Message-ID: <QrrCl.11585$%54.2387@nlpi070.nbdc.sbc.com>
NNTP-Posting-Host: 75.26.185.108
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi070.nbdc.sbc.com 1239040880 ST000 75.26.185.108 (Mon, 06 Apr 2009 14:01:20 EDT)
NNTP-Posting-Date: Mon, 06 Apr 2009 14:01:20 EDT
Organization: at&t http://my.att.net/
X-UserInfo1: OX[MR\OGRZRUBRH]^JKBOW@@YJ_ZTB\MV@BZMVMHQAVTUZ]CLNTCPFK[WDXDHV[K^FCGJCJLPF_D_NCC@FUG^Q\DINVAXSLIFXYJSSCCALP@PB@\OS@BITWAH\CQZKJMMD^SJA^NXA\GVLSRBD^M_NW_F[YLVTWIGAXAQBOATKBBQRXECDFDMQ\DZFUE@\JM
Date: Mon, 06 Apr 2009 11:01:19 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:2134 rec.radio.swap:1507

Norm VE3CZI wrote:
> I have been requested to test some of those Cordless Telephones that are so
> popular today.
> However, We have a Computerized Phone System and can not get to an outside
> line to get the 50V and Dial Tone to test the incoming rings OR to test it's
> outgoing operation.
>
> Does anyone (1) Have or know of a device that I could buy or ...

Yes, maybe this suits your needs:

http://www.digitalproductsco.com/

It's a friend of mine. But remember, this is for the phone standard used
in the continental US. I don't know if Canada is the same.

```
--
73, Joerg


From -6888258866626055995
X-Google-Thread: fc2a5,d66c8ffab8b2bd4e,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
feeder.erje.net!news.panservice.it!feeder.news.tin.it!spool.news.tin.it!not-for-
mail
Date: Mon, 06 Apr 2009 20:27:25 +0200
From: Emanuele Colucci <emack@gameprog.it>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Cassegrain Antenna development
Content-Type: text/plain; charset=ISO-8859-15; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 12
Message-ID: <49da4991$0$830$4fafbaef@reader5.news.tin.it>
Organization: TIN.IT (http://www.tin.it)
X-Comments: Please send technical notifications to newsmaster@tin.it
NNTP-Posting-Host: 79.43.95.189
X-Trace: 1239042449 reader5.news.tin.it 830 79.43.95.189:10899
X-Complaints-To: Please send abuse reports to abuse@retail.telecomitalia.it
Xref: g2news1.google.com rec.radio.amateur.homebrew:2135

Hi there,
this is my first post here, hope not being off topic :)
I was asking myself if there were resources over the net that cover the
development of a cassegrain antenna [from the design up to the building]
in a homebrew fashion.

Thank you for paying attention towards this mail :)

Bye bye

Emanuele Colucci
emack@gameprog.it


From -6793150903792692841
X-Google-Thread: fc2a5,2e351383df16bcb9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
tr22g12.aset.psu.edu!not-for-mail
From: Michael Coslo <mjc5@psu.edu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Boys Book Of Radio And Electronics - Destroyed!
Date: Mon, 06 Apr 2009 14:45:06 -0400
Organization: Penn State University, Academic Services and Emerging Technology
```

Lines: 32
Message-ID: <grdiji$do4e$1@tr22n12.aset.psu.edu>
References: <nvqyl.484582$Mh5.400664@bgtnsc04-news.ops.worldnet.att.net>
     <2p1os45j6u9rqpdc17eiport9tpi4a70nh@4ax.com>
<49cc1a4f$0$31214$bd467cd0@news.dslextreme.com>
<ua3zl.84854$4m1.66260@bgtnsc05-news.ops.worldnet.att.net> <c5abd0cd-e5c6-4f2a-b119-6ff2ea3c6c6f@e25g2000vbe.googlegroups.com> <gqjdn601lsv@news4.newsguy.com>
<uTvzl.87505$4m1.30306@bgtnsc05-news.ops.worldnet.att.net>
<dOSBl.524136$Mh5.272210@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: nat4.arl.psu.edu
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: tr22n12.aset.psu.edu 1239043506 450702 128.118.40.79 (6 Apr 2009 18:45:06 GMT)
X-Complaints-To: usenet@tr22n12.aset.psu.edu
NNTP-Posting-Date: Mon, 6 Apr 2009 18:45:06 +0000 (UTC)
User-Agent: Thunderbird 2.0.0.21 (Macintosh/20090302)
In-Reply-To: <dOSBl.524136$Mh5.272210@bgtnsc04-news.ops.worldnet.att.net>
Xref: g2news1.google.com rec.radio.amateur.homebrew:2136

RadioGuy wrote:
> "RadioGuy" <nospam@nospam.com> wrote in message
> news:uTvzl.87505$4m1.30306@bgtnsc05-news.ops.worldnet.att.net...
>> "Bill M" <radioexray@geemail.com> wrote in message
>> news:gqjdn601lsv@news4.newsguy.com...
>>> http://www.snopes.com/inboxer/pending/cpsia.asp
>> Good link and the references were appreciated though the discussion was a
>> bit confusing.
>>
>> So in other words to all those that have suspect items; err on the safe
>> side and discard them safely so as to avoid any possible infractions and
>> liabilities.
>>
> I guess CPSC isn't stopping with books... now its all terrain vehicles!

Where did that come from?

>
> It seems that CPSC is using lead as a method of legislating anything 'they'
> don't want out of existence by claiming that it is unsafe for childeren. I
> don't see this trend stopping anytime soon---it will be interesting to see
> whats next.

See that red dot that says "false"?

Confusing language and the law of unintended consequences is the
problem, no vast conspiracy to deprive people of their old books or kids
clothing. So it's been delayed. Maybe we can now go back to chemtrails
or something......

```
From 5047273479063618975
X-Google-Thread: fc2a5,d66c8ffab8b2bd4e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
news2.arglkargh.de!nuzba.szn.dk!pnx.dk!fu-berlin.de!uni-berlin.de!individual.net!
not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cassegrain Antenna development
Date: 6 Apr 2009 18:51:31 GMT
Lines: 17
Message-ID: <slrngtkjpj.2r6p.bit-bucket@shell.config.com>
References: <49da4991$0$830$4fafbaef@reader5.news.tin.it>
Reply-To: If you must, <Reply_to@my.sig.adr>
X-Trace: individual.net fRTbe9IAVZT8hz+wCR7IlA49J87mUvRt1YBARgvZ8kSSgp2cK9
Cancel-Lock: sha1:0JLC/n8O/GrHM6vBMdkR4XlGTZg=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2137

On Mon, 06 Apr 2009 20:27:25 +0200, Emanuele Colucci wrote:
> Hi there,
> this is my first post here, hope not being off topic :)

After all the Off Topic postings on lead in childrens books and cordless
phone tests equipment, yours is the first truly On Topic post I've seen
in quite some time!  Thank you!!  :-)

But, alas, I can give you no advice on your search for cassegrain
antenna design.

Regards,
Jonesy
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    * Killfiling google & XXXXbanter.com: jonz.net/ng.htm


From 3617084162192656876
X-Google-Thread: fc2a5,d66c8ffab8b2bd4e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 06 Apr 2009 18:02:44 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <49da4991$0$830$4fafbaef@reader5.news.tin.it>
Subject: Re: Cassegrain Antenna development
```

```
Date: Mon, 6 Apr 2009 19:03:33 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <CuOdnX98apGJF0fUnZ2dnUVZ_j6WnZ2d@earthlink.com>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.225.35.56
X-Trace: sv3-i6RsbWi2I0lmz21YvREhKGGWQGZB+VnS7rrfOuIB8egpcBHGEo2Qxh1fxgLBtKEC3mI/
f9B4ee0fra+!
08b61rChOaS2Tq+p04Dm6xIJn4BR8YBOwMFmJVWGCKMlPYAQkGQtafYc6tbXDZXve3Y36Kj1BVqV!
zRFaRb06oTIcg9/EDiKpPqUiT4tI1x9ujXXGYA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1733
Xref: g2news2.google.com rec.radio.amateur.homebrew:2435


"Emanuele Colucci" <emack@gameprog.it> wrote in message
news:49da4991$0$830$4fafbaef@reader5.news.tin.it...
> Hi there,
> this is my first post here, hope not being off topic :)
> I was asking myself if there were resources over the net that cover the
> development of a cassegrain antenna [from the design up to the building]
> in a homebrew fashion.
>
> Thank you for paying attention towards this mail :)
>
> Bye bye
>
> Emanuele Colucci
> emack@gameprog.it

Not off topic at all.  You may want to try the rec.radio.amateur.antenna
group.




From -1602783553124884385
X-Google-Thread: fc2a5,d66c8ffab8b2bd4e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!n7g2000prc.googlegroups.com!not-for-
mail
From: johncincotta@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cassegrain Antenna development
Date: Mon, 6 Apr 2009 17:59:17 -0700 (PDT)
```

```
Organization: http://groups.google.com
Lines: 22
Message-ID: <50b9c3e6-5186-4a0d-ae48-b0d94de36a06@n7g2000prc.googlegroups.com>
References: <49da4991$0$830$4fafbaef@reader5.news.tin.it>
NNTP-Posting-Host: 76.220.57.68
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1239065958 28562 127.0.0.1 (7 Apr 2009 00:59:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 7 Apr 2009 00:59:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n7g2000prc.googlegroups.com; posting-host=76.220.57.68;
     posting-account=pOkSBgoAAAAYLkvCaL05Wsc8bA7sY_eK
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.8)
     Gecko/2009032609 Firefox/3.0.8 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2139

On Apr 6, 11:27=A0am, Emanuele Colucci <em...@gameprog.it> wrote:
> Hi there,
> this is my first post here, hope not being off topic :)
> I was asking myself if there were resources over the net that cover the
> development of a cassegrain antenna [from the design up to the building]
> in a homebrew fashion.
>
> Thank you for paying attention towards this mail :)
>
> Bye bye
>
> Emanuele Colucci
> em...@gameprog.it


you might try w1ghz I believe he has some stuff(spreadsheet) to
calculate params for a cas.
you might also look into optical design software a cas is the same
just the wavelength is longer in the one you are probably thinking of.

good luck
73 de n6plr


From -2142722751698238052
X-Google-Thread: fcc6e,d77006ccb5d906e,start
X-Google-Thread: 11480d,d77006ccb5d906e,start
X-Google-Thread: 108122,d77006ccb5d906e,start
X-Google-Thread: fc2a5,d77006ccb5d906e,start
X-Google-Attributes: gidfcc6e,gid11480d,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
```

Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1236409501@panix.com>
Followup-To: poster
Date: 7 Apr 2009 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 10 May 2009 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1239084301@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1239084302 10289 166.84.1.2 (7 Apr 2009 06:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 7 Apr 2009 06:05:02 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news2.google.com rec.radio.amateur.antenna:10826 rec.radio.amateur.dx:355
rec.radio.amateur.equipment:1435 rec.radio.amateur.homebrew:2437
rec.radio.amateur.misc:4179 rec.radio.amateur.policy:25854 rec.radio.info:671

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

From 2753117414741523559
X-Google-Thread: fc2a5,d66c8ffab8b2bd4e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!feeder.news-service.com!news.panservice.it!feeder.news.tin.it!spool.news.tin.it!not-for-mail
Date: Tue, 07 Apr 2009 19:48:39 +0200
From: Emanuele Colucci <emack@gameprog.it>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cassegrain Antenna development
References: <49da4991$0$830$4fafbaef@reader5.news.tin.it> <50b9c3e6-5186-4a0d-ae48-b0d94de36a06@n7g2000prc.googlegroups.com>
In-Reply-To: <50b9c3e6-5186-4a0d-ae48-b0d94de36a06@n7g2000prc.googlegroups.com>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 18
Message-ID: <49db91fa$0$1114$4fafbaef@reader2.news.tin.it>
Organization: TIN.IT (http://www.tin.it)
X-Comments: Please send technical notifications to newsmaster@tin.it
NNTP-Posting-Host: 79.42.7.64
X-Trace: 1239126522 reader2.news.tin.it 1114 79.42.7.64:8488
X-Complaints-To: Please send abuse reports to abuse@retail.telecomitalia.it
Xref: g2news1.google.com rec.radio.amateur.homebrew:2141

Many thanks to everyone answered my message :)

> you might try w1ghz I believe he has some stuff(spreadsheet) to
> calculate params for a cas.

Yep, I saw. :)

> you might also look into optical design software a cas is the same
> just the wavelength is longer in the one you are probably thinking of.

Could you explain which software do you mean? For optical design do you
mean optical cas telescope or optical geometry approximation?

Thank you again!

From -7470075277308731898
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!h28g2000yqd.googlegroups.com!not-for-mail
From: "Myron A. Calhoun" <mcalhoun@ksu.edu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Free "lofer" Radio Scrap Books
Date: Tue, 7 Apr 2009 14:34:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
Message-ID: <de7ae273-95a4-483a-b484-fa92eb613813@h28g2000yqd.googlegroups.com>
NNTP-Posting-Host: 70.242.176.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1239140068 25458 127.0.0.1 (7 Apr 2009 21:34:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 7 Apr 2009 21:34:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h28g2000yqd.googlegroups.com; posting-host=70.242.176.246;
     posting-account=mpQ51woAAAB7BmhJj-PrzL35zO0SpJmC
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
     SV1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2142

I'm finally admitting there are some interesting aspects
of radio that I'm not going to live long enough to get around to, so
I'll send the following to the first technically-oriented person who
agrees to pay $10 for postage (inside the USA) and my trip to the
Post Office:

The low and medium frequency radio scrap book
Addendum '77/'78 for thr low and medium radio....
  both "From the Editors of ham radio/
           Ken Cornell, W2IMB"

A collection of articles and writings about antennas, receivers,
loops, coils, and coil winding for getting on the VLF "lowfer" band.
Mostly tube gear with transistor gear mostly in the supplements.
About 180 8.5 x 11 pages, 3-hole-punched loose-leaf with heavy paper
covers.

Email W0PBV@ARRL.net if you want them.

From -4293223207585107320
X-Google-Thread: fc2a5,90a989b032f13f4c

```
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!f14g2000vbf.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: nixie driver
Date: Wed, 8 Apr 2009 06:51:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 21
Message-ID: <01029c48-2d92-46cf-ac3f-cdc0ded782aa@f14g2000vbf.googlegroups.com>
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1239198713 1116 127.0.0.1 (8 Apr 2009 13:51:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 8 Apr 2009 13:51:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f14g2000vbf.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB5;
     .NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2440
```

On Apr 3, 10:34=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:

> I have a Systron Donner frequency counter that uses Nixie tubes. The counter works fine but I am forever replacing the Nixie drivers 74141s. I started to use it this AM an one was out. Is there a replacement for the 74141, I couldnt find one, or is there a circuit I could build on a DIP header to replace them. I could probably design one but I wanted something tried an tested as I dont want to put my counter board at more risk than I have to.

Domestic 74141's are hard to find these days but on E-bay the Russian equivalent is very common.

Yes, you could build just about anything with a one-of-ten decoder and some current-sink drivers to do the same.

If the goal isn't nixie tubes but is a working frequency counter, you could probably put the counter up on E-bay for somebody who wants nixie tubes, and use the money to buy several superior frequency counters.

Tim N3QE

```
From -7898651771761700140
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!h28g2000yqd.googlegroups.com!not-for-
```

```
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: nixie driver
Date: Wed, 8 Apr 2009 18:52:27 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <730ba22a-3477-4ec5-8615-1432871e624a@h28g2000yqd.googlegroups.com>
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
     <01029c48-2d92-46cf-ac3f-cdc0ded782aa@f14g2000vbf.googlegroups.com>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1239241947 31584 127.0.0.1 (9 Apr 2009 01:52:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 9 Apr 2009 01:52:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h28g2000yqd.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2144

On Apr 8, 9:51=A0am, Tim Shoppa <sho...@trailing-edge.com> wrote:
> On Apr 3, 10:34=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
> > I have a Systron Donner frequency counter that uses Nixie tubes. The
> > counter works fine but I am forever replacing the Nixie drivers
> > 74141s. I started to use it this AM an one was out. Is there a
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> > could build on a DIP header to replace them. I could probably design
> > one but I wanted something tried an tested as I dont want to put my
> > counter board at more risk than I have to.
>
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>
> Yes, you could build just about anything with a one-of-ten decoder and
> some current-sink drivers to do the same.
>
> If the goal isn't nixie tubes but is a working frequency counter, you
> could probably put the counter up on E-bay for somebody who wants
> nixie tubes, and use the money to buy several superior frequency
> counters.
>
> Tim N3QE

I forgot that the 74141 was also a decoder chip. I was thinking it was
just a driver. That complicates things a bit.
As far as the quality of the counter goes it works just fine and I
still have a few 74141s though my supply is getting low. I may try
```

some of the Russian chips.

JImmie

From -3020119613099628933
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 09 Apr 2009 05:02:37 -0500
Date: Thu, 09 Apr 2009 10:02:37 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: nixie driver
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
     <01029c48-2d92-46cf-ac3f-cdc0ded782aa@f14g2000vbf.googlegroups.com>
<730ba22a-3477-4ec5-8615-1432871e624a@h28g2000yqd.googlegroups.com>
In-Reply-To: <730ba22a-3477-4ec5-8615-1432871e624a@h28g2000yqd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Wd-dnSJwO6ogWkDUnZ2dnUVZ_iydnZ2d@bright.net>
Lines: 42
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
Y5rW2njSTKyq9kfJdCGfzHZEV5geFULCkn0eY5swqEI+nC5NDdbn3+mBtPL7nPE4Z3Un85ICNABeo3v!
0GTSkcW8P6u/3SudGv8Y3H5ThQ12kRTu8XFCwAVwWIFdeRPFylEfkJg268vwnQxUdVS3Ykt4WyZD!
VqQlVfonMA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 3077
Xref: g2news1.google.com rec.radio.amateur.homebrew:2145

JIMMIE wrote:
> On Apr 8, 9:51 am, Tim Shoppa <sho...@trailing-edge.com> wrote:
>> On Apr 3, 10:34 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>>
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>> Domestic 74141's are hard to find these days but on E-bay the Russian
>> equivalent is very common.
>>

```
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>>
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> still have a few 74141s though my supply is getting low. I may try
> some of the Russian chips.
>
>
> JImmie

As I noted in a previous email, the 74141 is still available, but
looking at Mouser, I see they are not exactly cheap...but...it beats
hacking up a piece of equipment and trying to use a completely different
part...here's the link to Mouser's part...

http://www.mouser.com/Search/Refine.aspx?Keyword=nte74141

Scott
N0EDV


From -4640710442181159328
X-Google-Thread: fc2a5,90a989b032f13f4c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 09 Apr 2009 05:02:53 -0500
Date: Thu, 09 Apr 2009 10:02:53 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: nixie driver
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
     <01029c48-2d92-46cf-ac3f-cdc0ded782aa@f14g2000vbf.googlegroups.com>
<730ba22a-3477-4ec5-8615-1432871e624a@h28g2000yqd.googlegroups.com>
In-Reply-To: <730ba22a-3477-4ec5-8615-1432871e624a@h28g2000yqd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Wd-dnV1wO6pQWkDUnZ2dnUVZ_iwAAAAA@bright.net>
Lines: 41
X-Usenet-Provider: http://www.giganews.com
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NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-5FcE/
eid7ACm7RHc8Y9brsYB10Dxk+BQTtGqKGzgREVyeQNiwOBIYLkFD+heZOROjNZo38BQcCH2dEg!
ZwLOYJSwUABCKyfp305277apVs0PyLDyWWJEj8ZA/JRs+Jxf3VpPfm1b9tOxoUzgZXifKj3inOtm!
THOGgsZVEg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2935
Xref: g2news2.google.com rec.radio.amateur.homebrew:2443

JIMMIE wrote:
> On Apr 8, 9:51 am, Tim Shoppa <sho...@trailing-edge.com> wrote:
>> On Apr 3, 10:34 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>>
>>> I have a Systron Donner frequency counter that uses Nixie tubes. The
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>
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> As far as the quality of the counter goes it works just fine and I
> still have a few 74141s though my supply is getting low. I may try
> some of the Russian chips.
>
>
> JImmie

It appears they still make the 74141. Here's a list of suppliers
according to NTE...

http://dilp.netcomponents.com/cgi-bin/nteinc.asp?partnumber1=nte74141&partnumber2=

Scott
N0EDV

```
From 3570126186748838129
X-Google-Thread: fcc6e,52e29831ceda3ccb,start
X-Google-Thread: fc2a5,52e29831ceda3ccb,start
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!24dd0da6!not-for-
mail
Sender: Jim Pennino <jimp@mail.specsol.com>
Message-ID: <29p1b6-1kc.ln1@mail.specsol.com>
From: jimp@specsol.spam.sux.com
Subject: Semi rigid coax source
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (SunOS/5.10 (i86pc))
Lines: 10
Date: Thu, 09 Apr 2009 18:00:00 GMT
NNTP-Posting-Host: 71.118.11.57
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1239300000 71.118.11.57 (Thu, 09 Apr 2009 14:00:00
EDT)
NNTP-Posting-Date: Thu, 09 Apr 2009 14:00:00 EDT
Xref: g2news1.google.com rec.radio.amateur.antenna:9080
rec.radio.amateur.homebrew:2147

Anyone know of a source for semi rigid coax in general and RG-401 in
particular in hobby quantities like 3 to 6 feet?

I can find lots of places willing to sell me a 50 foot spool.



--
Jim Pennino

Remove .spam.sux to reply.
```

```
From -8869149164569314408
X-Google-Thread: fcc6e,52e29831ceda3ccb
X-Google-Thread: fc2a5,52e29831ceda3ccb
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!u8g2000yqn.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Semi rigid coax source
Date: Thu, 9 Apr 2009 12:55:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <bda6bc83-1106-41da-9ec5-0118cbbacf29@u8g2000yqn.googlegroups.com>
```

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References: <29p1b6-1kc.ln1@mail.specsol.com>
NNTP-Posting-Host: 165.254.211.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1239306939 25725 127.0.0.1 (9 Apr 2009 19:55:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 9 Apr 2009 19:55:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u8g2000yqn.googlegroups.com; posting-host=165.254.211.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:10859
rec.radio.amateur.homebrew:2445

On Apr 9, 2:00=A0pm, j...@specsol.spam.sux.com wrote:
> Anyone know of a source for semi rigid coax in general and RG-401 in
> particular in hobby quantities like 3 to 6 feet?
>
> I can find lots of places willing to sell me a 50 foot spool.
>
> --
> Jim Pennino
>
> Remove .spam.sux to reply.

I have seen some of the surplus places have it from time to time.
Sometimes a phone call to them will get you things they dont have in
their catalog.

Jimmie


From 5213238023579806462
X-Google-Thread: fcc6e,52e29831ceda3ccb
X-Google-Thread: fc2a5,52e29831ceda3ccb
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!f19g2000yqh.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Semi rigid coax source
Date: Thu, 9 Apr 2009 14:38:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
Message-ID: <a4581596-2eeb-4456-b2f6-df6367473f5a@f19g2000yqh.googlegroups.com>
References: <29p1b6-1kc.ln1@mail.specsol.com>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1239313119 13217 127.0.0.1 (9 Apr 2009 21:38:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 9 Apr 2009 21:38:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f19g2000yqh.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.8)
     Gecko/2009032609 Firefox/3.0.8,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.antenna:9082
rec.radio.amateur.homebrew:2149

On Apr 9, 11:00=A0am, j...@specsol.spam.sux.com wrote:
> Anyone know of a source for semi rigid coax in general and RG-401 in
> particular in hobby quantities like 3 to 6 feet?
>
> I can find lots of places willing to sell me a 50 foot spool.
>
> --
> Jim Pennino
>
> Remove .spam.sux to reply.

Have you tried asking manufacturers like Micro-Coax who their stocking
distributors are?  One of the distributors may take pity on you and
sell you a small quantity.  You _might_ even be able to sweet-talk a
manufacturer/rep out of a sample of 3 feet of the stuff.

Cheers,
Tom



From 2005585527770165996
X-Google-Thread: fcc6e,52e29831ceda3ccb
X-Google-Thread: fc2a5,52e29831ceda3ccb
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!24dd0da6!not-for-
mail
Sender: Jim Pennino <jimp@mail.specsol.com>
Message-ID: <lk72b6-n6e.ln1@mail.specsol.com>
From: jimp@specsol.spam.sux.com
Subject: Re: Semi rigid coax source
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <29p1b6-1kc.ln1@mail.specsol.com> <a4581596-2eeb-4456-b2f6-
df6367473f5a@f19g2000yqh.googlegroups.com>
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (SunOS/5.10 (i86pc))
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
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Lines: 29
Date: Thu, 09 Apr 2009 22:00:01 GMT
NNTP-Posting-Host: 71.118.11.57
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1239314401 71.118.11.57 (Thu, 09 Apr 2009 18:00:01
EDT)
NNTP-Posting-Date: Thu, 09 Apr 2009 18:00:01 EDT
Xref: g2news2.google.com rec.radio.amateur.antenna:10862
rec.radio.amateur.homebrew:2447

In rec.radio.amateur.antenna K7ITM <k7itm@msn.com> wrote:
> On Apr 9, 11:00 am, j...@specsol.spam.sux.com wrote:
>> Anyone know of a source for semi rigid coax in general and RG-401 in
>> particular in hobby quantities like 3 to 6 feet?
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>> I can find lots of places willing to sell me a 50 foot spool.
>>
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>> Jim Pennino
>>
>> Remove .spam.sux to reply.
>
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> distributors are?  One of the distributors may take pity on you and
> sell you a small quantity.  You _might_ even be able to sweet-talk a
> manufacturer/rep out of a sample of 3 feet of the stuff.
>
> Cheers,
> Tom

Almost all the distributors are willing to sell short lengths with
an added flat, short length, cutting fee ranging from $15 to $25,
which at the price of this stuff may be the way to go.


--
Jim Pennino

Remove .spam.sux to reply.


From -2965224209997932847
X-Google-Thread: fcc6e,52e29831ceda3ccb
X-Google-Thread: fc2a5,52e29831ceda3ccb
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!
easynews.com!en-nntp-01.dc1.easynews.com.POSTED!not-for-mail
From: MTV <volztexas355@comcast.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
```

Subject: Re: Semi rigid coax source
References: <29p1b6-1kc.ln1@mail.specsol.com>
In-Reply-To: <29p1b6-1kc.ln1@mail.specsol.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 11
Message-ID: <_euDl.12227$5q1.10098@en-nntp-01.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Thu, 09 Apr 2009 17:01:25 -0500
Xref: g2news2.google.com rec.radio.amateur.antenna:10863 rec.radio.amateur.homebrew:2448

jimp@specsol.spam.sux.com wrote:
> Anyone know of a source for semi rigid coax in general and RG-401 in
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>
>

Cable Experts: www.cablexperts.com

Marv

From 3036147229919385419
X-Google-Thread: fcc6e,52e29831ceda3ccb
X-Google-Thread: fc2a5,52e29831ceda3ccb
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <29p1b6-1kc.ln1@mail.specsol.com>
Subject: Re: Semi rigid coax source
Date: Thu, 9 Apr 2009 21:26:01 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Message-ID: <8c3d6$49deae3b$18d6b40c$31595@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 20
X-Trace: 8c3d649deae3bbd7311a931595
Xref: g2news2.google.com rec.radio.amateur.antenna:10867 rec.radio.amateur.homebrew:2449

<jimp@specsol.spam.sux.com> wrote in message
news:29p1b6-1kc.ln1@mail.specsol.com...

> Anyone know of a source for semi rigid coax in general and RG-401 in
> particular in hobby quantities like 3 to 6 feet?
>
> I can find lots of places willing to sell me a 50 foot spool.
>
>
> --
> Jim Pennino
>
> Remove .spam.sux to reply.

Ebay has RG402 in 10 ft sections 1.5 times more loss (only .26db additional
for 10ft) and smaller diameter.

http://shop.ebay.com/items/?_nkw=1673a+rg402+rg401&_in_kw=2&_ex_kw=&_sacat=See-All-Categories&_okw=1673a+rg402+rg401&_oexkw=&_udlo=&_udhi=&_ftrt=901&_ftrv=1&_sabdlo=&_sabdhi=&_samilow=&_samihi=&_sadis=200&_fpos=Zip+code&_fsct=&LH_SALE_CURRENCY=0&_sop=12&_dmd=1&_ipg=50

```
From 1078660417297336194
X-Google-Thread: fc2a5,35cac6c641b9379f,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!2dc089b5!not-for-
mail
From: "John KD5YI" <groups2_dot_jocjo@xoxy.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Need help with GPIB on HP 3586
Lines: 17
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-Antivirus: avast! (VPS 090412-0, 04/12/2009), Outbound message
X-Antivirus-Status: Clean
Message-ID: <l1HEl.657$WK5.613@nwrddc01.gnilink.net>
Date: Mon, 13 Apr 2009 13:23:29 GMT
```

NNTP-Posting-Host: 96.226.109.223
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1239629009 96.226.109.223 (Mon, 13 Apr 2009 09:23:29 EDT)
NNTP-Posting-Date: Mon, 13 Apr 2009 09:23:29 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:2153

I have questions like:

* The 3586 manual says in one place that the frequency increase/decrease buttons do not function in the remote mode. In the chart of commands, it says that the GPIB command for increase is UP and the GPIB command for decrease is DN. Does anyone know whether these are valid commands or not?

* Can anyone provide a step-by-step procedure for the command sequence to read the 3586 signal magnitude using GPIB?

* Which GPIB adaptor do you use?

Many thanks.

Cheers,
John - KD5YI

From -1755178622449637974
X-Google-Thread: fc2a5,90a989b032f13f4c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!flpi143.ffdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: nixie driver
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
<01029c48-2d92-46cf-ac3f-cdc0ded782aa@f14g2000vbf.googlegroups.com>
<730ba22a-3477-4ec5-8615-1432871e624a@h28g2000yqd.googlegroups.com>
In-Reply-To: <730ba22a-3477-4ec5-8615-1432871e624a@h28g2000yqd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 52
Message-ID: <i3JEl.5384$Lr6.4870@flpi143.ffdc.sbc.com>
NNTP-Posting-Host: 75.26.182.53
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi143.ffdc.sbc.com 1239637326 ST000 75.26.182.53 (Mon, 13 Apr 2009 11:42:06 EDT)
NNTP-Posting-Date: Mon, 13 Apr 2009 11:42:06 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:

[[PAPDON_ZUYB_TY]ZKTOFTBTR\B@GXLN@GZ_GYO^JWTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Mon, 13 Apr 2009 08:45:23 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:2154

JIMMIE wrote:
> On Apr 8, 9:51 am, Tim Shoppa <sho...@trailing-edge.com> wrote:
>> On Apr 3, 10:34 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>>
>>> I have a Systron Donner frequency counter that uses Nixie tubes. The
>>> counter works fine but I am forever replacing the Nixie drivers
>>> 74141s. I started to use it this AM an one was out. Is there a
>>> replacement for the 74141, I couldnt find one, or is there a circuit I
>>> could build on a DIP header to replace them. I could probably design
>>> one but I wanted something tried an tested as I dont want to put my
>>> counter board at more risk than I have to.
>> Domestic 74141's are hard to find these days but on E-bay the Russian
>> equivalent is very common.
>>
>> Yes, you could build just about anything with a one-of-ten decoder and
>> some current-sink drivers to do the same.
>>
>> If the goal isn't nixie tubes but is a working frequency counter, you
>> could probably put the counter up on E-bay for somebody who wants
>> nixie tubes, and use the money to buy several superior frequency
>> counters.
>>
>> Tim N3QE
>
> I forgot that the 74141 was also a decoder chip. I was thinking it was
> just a driver. That complicates things a bit.
> As far as the quality of the counter goes it works just fine and I
> still have a few 74141s though my supply is getting low. I may try
> some of the Russian chips.
>

If this keeps going on and becomes a money pit without a bottom there is
still the unthinkable: Hack the counter and put 7-segment LED displays
in it. Ok, all that nice Nixie-ambience will be lost but you can apply
those $7-8 per 74141 towards a more worthy cause, like a nice six-pack
of fine porter or pale ale :-)

To maintain somewhat of a vintage look: For a brief time period there
were 7-segment displays with small filaments in there. But could be
tough to find in surplus store and usually you have to buy the equipment
around them along with the display. Another nice option (if there is
enough space depth-wise) were displays with individual lamps and number
lenses. Those look really cool.

Also helpful could be to use a DSO and scope out what happens when the
counter gets turned on and off, and when the numbers are changing
wildly. Maybe some electrolytic cap has dried out and an overvoltage

spike shows up only the Nixie supply rail, occasionally frying a driver.
Ground contacts in the driver board area are also worth to be checked out.

--
73, Joerg

```
From 310147961325061297
X-Google-Thread: fc2a5,90a989b032f13f4c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews4.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Mozilla-Thunderbird 2.0.0.19 (X11/20090103)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: nixie driver
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
     <01029c48-2d92-46cf-ac3f-cdc0ded782aa@f14g2000vbf.googlegroups.com>
<730ba22a-3477-4ec5-8615-1432871e624a@h28g2000yqd.googlegroups.com>
<i3JEl.5384$Lr6.4870@flpi143.ffdc.sbc.com>
In-Reply-To: <i3JEl.5384$Lr6.4870@flpi143.ffdc.sbc.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 55
Message-ID: <SkOEl.28745$qa.6649@bignews4.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
npbhgpngjbkmjfegdbdpiflmbcekedmfhojhikkbagflhcboiabnlapalhagggeihpibdmhglmjhdnidjn
bldokjdnhofocmdhfpkonoianenokijdhgacabpkaeaeajiphibpdelfapbamhoephfhlojiceiccf
NNTP-Posting-Date: Mon, 13 Apr 2009 17:42:10 EDT
Organization: BellSouth Internet Group
Date: Mon, 13 Apr 2009 17:47:59 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2452
```

Joerg wrote:
> JIMMIE wrote:
>> On Apr 8, 9:51 am, Tim Shoppa <sho...@trailing-edge.com> wrote:
>>> On Apr 3, 10:34 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
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>>>> 74141s. I started to use it this AM an one was out. Is there a
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>>>> could build on a DIP header to replace them. I could probably design
>>>> one but I wanted something tried an tested as I dont want to put my
>>>> counter board at more risk than I have to.
>>> Domestic 74141's are hard to find these days but on E-bay the Russian
>>> equivalent is very common.

>>>
>>> Yes, you could build just about anything with a one-of-ten decoder and
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>>>
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>>> could probably put the counter up on E-bay for somebody who wants
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>>>
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>>
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>>
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> in it. Ok, all that nice Nixie-ambience will be lost but you can apply
> those $7-8 per 74141 towards a more worthy cause, like a nice six-pack
> of fine porter or pale ale :-)
>
> To maintain somewhat of a vintage look: For a brief time period there
> were 7-segment displays with small filaments in there. But could be
> tough to find in surplus store and usually you have to buy the equipment
> around them along with the display. Another nice option (if there is
> enough space depth-wise) were displays with individual lamps and number
> lenses. Those look really cool.
>
> Also helpful could be to use a DSO and scope out what happens when the
> counter gets turned on and off, and when the numbers are changing
> wildly. Maybe some electrolytic cap has dried out and an overvoltage
> spike shows up only the Nixie supply rail, occasionally frying a driver.
> Ground contacts in the driver board area are also worth to be checked out.
>
Use the 74141 (or a 7441 I think is the lv version of the 1 out of 10
decoder) to drive HV NPN transistors. The 2n5400/5401 pnp and
2n5550/2n5551 npn are dirt cheap 120/150 volt transistors that could be
used.

From -6297692280001134l9
X-Google-Thread: fc2a5,35cac6c641b9379f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi065.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need help with GPIB on HP 3586
References: <l1HEl.657$WK5.613@nwrddc01.gnilink.net>
In-Reply-To: <l1HEl.657$WK5.613@nwrddc01.gnilink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 26
Message-ID: <lOREl.23902$c45.16523@nlpi065.nbdc.sbc.com>
NNTP-Posting-Host: 75.26.194.110
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi065.nbdc.sbc.com 1239673105 ST000 75.26.194.110 (Mon, 13 Apr 2009 21:38:25 EDT)
NNTP-Posting-Date: Mon, 13 Apr 2009 21:38:25 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
TSU[@I_A\S@GRQ\Y\ZJB^WTAUKXD@D@MGPW^OBPLAH[\RSAANVUEAE[YETZPIWWI[FCIZA^NBFXZ_D[BFN
TCNVPDTNTKHWXKB@X^B_OCJLPZ@ET_O[G\XSG@E\G[ZKVLBL^CJINM@I_KVIOR\T_M_AW_M[_BWU_HFA_]
@A_A^SGFAUDE_DFTMQPFWVW[QPJN
Date: Mon, 13 Apr 2009 18:38:21 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:2156

John KD5YI wrote:

> I have questions like:
>
> * The 3586 manual says in one place that the frequency increase/decrease buttons do not function in the remote mode. In the chart of commands, it says that the GPIB command for increase is UP and the GPIB command for decrease is DN. Does anyone know whether these are valid commands or not?
>
> * Can anyone provide a step-by-step procedure for the command sequence to read the 3586 signal magnitude using GPIB?
>

No idea, but why not just try it out? In case you don't have all the manuals they can be found here, scroll down about 40%:

http://www.w5jgv.com/amateur_radio.htm

> * Which GPIB adaptor do you use?
>

The Prologix USB. Works fine (after finding a level threshold bug and the designer made new firmware for it).

--
73, Joerg

From 6586446780974922917
X-Google-Thread: fc2a5,35cac6c641b9379f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!2dc089b5!not-for-mail
From: "John KD5YI" <groups2_dot_jocjo@xoxy.net>
Newsgroups: rec.radio.amateur.homebrew
References: <l1HEl.657$WK5.613@nwrddc01.gnilink.net>
<lOREl.23902$c45.16523@nlpi065.nbdc.sbc.com>
Subject: Re: Need help with GPIB on HP 3586
Lines: 43
MIME-Version: 1.0
Content-Type: text/plain;
format=flowed;
charset="iso-8859-1";
reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-Antivirus: avast! (VPS 090413-0, 04/13/2009), Outbound message
X-Antivirus-Status: Clean
Message-ID: <irSEl.793$b11.78@nwrddc02.gnilink.net>
Date: Tue, 14 Apr 2009 02:22:06 GMT
NNTP-Posting-Host: 96.226.109.223
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1239675726 96.226.109.223 (Mon, 13 Apr 2009 22:22:06 EDT)
NNTP-Posting-Date: Mon, 13 Apr 2009 22:22:06 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2454

"Joerg" <notthisjoergsch@removethispacbell.net> wrote in message
news:lOREl.23902$c45.16523@nlpi065.nbdc.sbc.com...

> John KD5YI wrote:
>> I have questions like:
>>
>> * The 3586 manual says in one place that the frequency increase/decrease
>> buttons do not function in the remote mode. In the chart of commands, it
>> says that the GPIB command for increase is UP and the GPIB command for
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>>
>> * Can anyone provide a step-by-step procedure for the command sequence to
>> read the 3586 signal magnitude using GPIB?
>>
>
> No idea, but why not just try it out? In case you don't have all the
> manuals they can be found here, scroll down about 40%:
>
> http://www.w5jgv.com/amateur_radio.htm
>
>
>> * Which GPIB adaptor do you use?
>>

>
> The Prologix USB. Works fine (after finding a level threshold bug and the
> designer made new firmware for it).
>
> --
> 73, Joerg

Hi, Joerg -

I was using a Softmark USB-GPIB unit. Although they responded to commands, I spent about 20 hours trying to get a reply other than gibberish from three different instruments with no success. I may have to roll my own controller, but first I have to understand GPIB.

Thanks for the link, but I already have the manuals. It is the operator's manual that I referred to above when I pointed out what I think is a contradiction.

73,
John

From 7699154692982516062
X-Google-Thread: fc2a5,90a989b032f13f4c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!v15g2000yqn.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: nixie driver
Date: Tue, 14 Apr 2009 08:23:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 76
Message-ID: <b3fdebe3-37c4-4cc3-b15a-6401e9ee27a1@v15g2000yqn.googlegroups.com>
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
    <01029c48-2d92-46cf-ac3f-cdc0ded782aa@f14g2000vbf.googlegroups.com>
    <730ba22a-3477-4ec5-8615-1432871e624a@h28g2000yqd.googlegroups.com>
    <i3JEl.5384$Lr6.4870@flpi143.ffdc.sbc.com>
<SkOEl.28745$qa.6649@bignews4.bellsouth.net>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1239722616 22127 127.0.0.1 (14 Apr 2009 15:23:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 14 Apr 2009 15:23:36 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v15g2000yqn.googlegroups.com; posting-host=75.190.189.120;
    posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR

```
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2455

On Apr 13, 5:47=A0pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
> Joerg wrote:
> > JIMMIE wrote:
> >> On Apr 8, 9:51 am, Tim Shoppa <sho...@trailing-edge.com> wrote:
> >>> On Apr 3, 10:34 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
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> >>>> I have a Systron Donner frequency counter that uses Nixie tubes. The
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> >>>> 74141s. I started to use it this AM an one was out. Is there a
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 I
> >>>> could build on a DIP header to replace them. I could probably design
> >>>> one but I wanted something tried an tested as I dont want to put my
> >>>> counter board at more risk than I have to.
> >>> Domestic 74141's are hard to find these days but on E-bay the Russian
> >>> equivalent is very common.
>
> >>> Yes, you could build just about anything with a one-of-ten decoder an=
d
> >>> some current-sink drivers to do the same.
>
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> >>> could probably put the counter up on E-bay for somebody who wants
> >>> nixie tubes, and use the money to buy several superior frequency
> >>> counters.
>
> >>> Tim N3QE
>
> >> I forgot that the 74141 was also a decoder chip. I was thinking it was
> >> just a driver. That complicates things a bit.
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> >> still have a few 74141s though my supply is getting low. I may try
> >> some of the Russian chips.
>
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s
> > still the unthinkable: Hack the counter and put 7-segment LED displays
> > in it. Ok, all that nice Nixie-ambience will be lost but you can apply
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>
> > To maintain somewhat of a vintage look: For a brief time period there
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t
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> > lenses. Those look really cool.
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> > Also helpful could be to use a DSO and scope out what happens when the
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> > wildly. Maybe some electrolytic cap has dried out and an overvoltage
> > spike shows up only the Nixie supply rail, occasionally frying a driver=
.
> > Ground contacts in the driver board area are also worth to be checked o=
ut.
>
> Use the 74141 (or a 7441 I think is the lv version of the 1 out of 10
> decoder) to drive HV NPN transistors. =A0The 2n5400/5401 pnp and
> 2n5550/2n5551 npn are dirt cheap 120/150 volt transistors that could be
> used.- Hide quoted text -
>
> - Show quoted text -

I manage to get a dozen chips for $.50 a piece form a mom/pop place I
buy parts from. I bought the last they had and probably ever will
have.. If  I could find a schematic on the thing I would see what I
could do about reducing the voltage. Im afraid to do too much
experimenting with the thing because its a good counter with at least
some sentimental value I dont want to risk damaging it. The back of
the counter has a connector with BCD output I guess I could always
build a display to work from there.

Systron Donner 6153 if there is a schematic available.

Jimmie



From -1365981233104084607
X-Google-Thread: fc2a5,245347c59c857409,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!r8g2000yql.googlegroups.com!not-for-
mail
From: spamhog <n1jpr@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: superregen resonant cavity for narrow band reception - any prior art?
Date: Tue, 14 Apr 2009 09:46:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 48
Message-ID: <fa8131f8-55db-418b-bdd3-7e2432e4fdd4@r8g2000yql.googlegroups.com>
NNTP-Posting-Host: 85.20.216.126
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1239727580 24464 127.0.0.1 (14 Apr 2009 16:46:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 14 Apr 2009 16:46:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r8g2000yql.googlegroups.com; posting-host=85.20.216.126;
     posting-account=tuTwjgoAAABgsw0HP7EbLMV3yMd8jh4C
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.64 (Windows NT 5.1; U; en) Presto/
```

```
2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2159
```

As the sunspot cycle is inching forward, I've been considering adding an upconverter to Charles Kitchin's 50MHz audio-squelched superregen design, in order to make a sensitive and very quickly tuneable 15-30MHz receiver intended to take the pulse of propagation on the higher HF bands. The idea came from an unpretentious Russian design. (No, it wasn't a fremodyne).

In a classic case of mission creep, I observed that a fixed IF lends itself to a further step. I searched for prior art in inducing super-regeneration in a resonant cavity.

If that could help narrowing the passband, it would be a nice trick for upconversion.

I found few and laconic references at almost-otherwordly microwave frequencies, Gunn diodes, folded spectra, etc etc.

If I could make a resonant cavity in no time I'd not ask for advice before jumping in, but this would be my very first, and shooting for 40-60Mz IF it risks being somewhat monumental - short of pigtailing the resonator, or doing a folded design, or some other "Grande Complication" which might negate the very idea of using a cavity.

******   Prior art pointers, anyone?   ******

TIA

Filippo N1JPR

P.S.: Just to prempt repetitions of the obvious I'll repeat it myself:
Why don't you use a [superhet =A6 xtal roofing filter =A6 downconversion =A6 cod liver oil =A6 snake oil]. Sorry I never heard of it, so it's likely to be a bad idea. Are you a Communist? Never heard of a 40MHz cavity. A superregen won't demod [CW =A6 SSB =A6 [QM=A6P]SKxx =A6 delta-sigma =A6 ancient Greek] ! Is this gonna be a portable receiver in that you can put it in the back of a SUV - if someone helps you carry the 6' long cavity, that is? You will need a [BFO =A6 product detector =A6 AMS =A6 DSP =A6 LPF =A6 postprocessing =A6 Photoshop]. IF passband wi=
ll be
too broad, although I have no idea how broad since I never used a cavity for that. :-o

From -4574268506791933954
X-Google-Thread: fc2a5,245347c59c857409
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 14 Apr 2009 13:55:10 -0500
Date: Tue, 14 Apr 2009 11:55:06 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.21 (X11/20090318)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: superregen resonant cavity for narrow band reception - any prior art?
References: <fa8131f8-55db-418b-bdd3-7e2432e4fdd4@r8g2000yql.googlegroups.com>
In-Reply-To: <fa8131f8-55db-418b-bdd3-7e2432e4fdd4@r8g2000yql.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <lLOdnfuwre-TQXnUnZ2dnUVZ_v2dnZ2d@web-ster.com>
Lines: 52
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-q0SaHLr5ekbibXEgjC26bZPgmv6BoaUousGincK+S+WKfdJQxzf4jMHACHkvjffat/U6+0Tk2ccyY8r!YmZgn4jnxkgVThbqT8uLlEDe81XXVvgiLN7JeqEMfQWeLD/qcU3NCVJpLt8FSaUy1nLiY/QzjUz/!T2xjoJZIo9x6G/U=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:2160

spamhog wrote:
> As the sunspot cycle is inching forward, I've been considering adding
> an upconverter to Charles Kitchin's 50MHz audio-squelched superregen
> design, in order to make a sensitive and very quickly tuneable
> 15-30MHz receiver intended to take the pulse of propagation on the
> higher HF bands. The idea came from an unpretentious Russian design.
> (No, it wasn't a fremodyne).
>
> In a classic case of mission creep, I observed that a fixed IF lends
> itself to a further step. I searched for prior art in inducing super-
> regeneration in a resonant cavity.
>
> If that could help narrowing the passband, it would be a nice trick
> for upconversion.
>
> I found few and laconic references at almost-otherwordly microwave
> frequencies, Gunn diodes, folded spectra, etc etc.
>
> If I could make a resonant cavity in no time I'd not ask for advice
> before jumping in, but this would be my very first, and shooting for
> 40-60Mz IF it risks being somewhat monumental - short of pigtailing
> the resonator, or doing a folded design, or some other "Grande

> Complication" which might negate the very idea of using a cavity.
>
> ******   Prior art pointers, anyone?   ******

"Coaxial Line V.H.F. Receivers", Joseph Santangelo, W1NXY, QST, March 1948, volume XXXII, number 3.

Basically it was a superregen using a coaxial cavity to increase the Q. Reported sizes were 7.5" x 2" for the outer conductor, 7.5" by 0.5" for the inner. The author's version was silver plated, but he reported that aluminum and copper had been used. He loaded it with a cap to get the right frequency.

It didn't look too hard to build, but its going to have to grow for 6m. You _ought_ to be able to do this with CATV hardline if you don't mind lots of connectors at the bends or a really long, skinny radio. You _may_ be able to get a decent Q just using some really efficient flexible coax, coiled up. I'd even see if I could find some semi-hardline that I could bend into a serpentine shape, were I playing with this notion.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" was written for you.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From -1631468156457852052
X-Google-Thread: fc2a5,adc1a84f0d25a2f1,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!69.16.177.254.MISMATCH!cyclone01.ams2.highwinds-media.com!news.highwinds-media.com!npeersf02.ams.highwinds-media.com!newsfe12.ams2.POSTED!7564ea0f!not-for-mail
From: "Theo" <theodore.twyler@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Article wanted
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <TU6Fl.22916$Le.1499@newsfe12.ams2>
NNTP-Posting-Host: 86.15.186.181
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe12.ams2 1239743155 86.15.186.181 (Tue, 14 Apr 2009 21:05:55 UTC)
```

```
NNTP-Posting-Date: Tue, 14 Apr 2009 21:05:55 UTC
Organization: virginmedia.com
Date: Tue, 14 Apr 2009 22:05:51 +0100
Xref: g2news2.google.com rec.radio.amateur.homebrew:2458
```

Does anyone have a copy of CQ magazine for November 1951 please?
The issue contains a construction article - the "Standard of Comparison" receiver.
If anyone can supply a high definition copy of this article, or know of an alternative source, I would be extremely grateful.

Theo

```
From 4942309066908606728
X-Google-Thread: fc2a5,245347c59c857409
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!r33g2000yqn.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: superregen resonant cavity for narrow band reception - any prior
     art?
Date: Tue, 14 Apr 2009 14:21:56 -0700 (PDT)
Organization: http://groups.google.com
Lines: 60
Message-ID: <25ccc6fd-e1a0-43a7-af14-cf12d5ab221b@r33g2000yqn.googlegroups.com>
References: <fa8131f8-55db-418b-bdd3-7e2432e4fdd4@r8g2000yql.googlegroups.com>
     <lLOdnfuwre-TQXnUnZ2dnUVZ_v2dnZ2d@web-ster.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1239744116 13146 127.0.0.1 (14 Apr 2009 21:21:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 14 Apr 2009 21:21:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r33g2000yqn.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2162
```

On Apr 14, 2:55=A0pm, Tim Wescott <t...@seemywebsite.com> wrote:
> spamhog wrote:
> > As the sunspot cycle is inching forward, I've been considering adding
> > an upconverter to Charles Kitchin's 50MHz audio-squelched superregen

> > design, in order to make a sensitive and very quickly tuneable
> > 15-30MHz receiver intended to take the pulse of propagation on the
> > higher HF bands. =A0The idea came from an unpretentious Russian design.
> > (No, it wasn't a fremodyne).
>
> > In a classic case of mission creep, I observed that a fixed IF lends
> > itself to a further step. I searched for prior art in inducing super-
> > regeneration in a resonant cavity.
>
> > If that could help narrowing the passband, it would be a nice trick
> > for upconversion.
>
> > I found few and laconic references at almost-otherwordly microwave
> > frequencies, Gunn diodes, folded spectra, etc etc.
>
> > If I could make a resonant cavity in no time I'd not ask for advice
> > before jumping in, but this would be my very first, and shooting for
> > 40-60Mz IF it risks being somewhat monumental - short of pigtailing
> > the resonator, or doing a folded design, or some other "Grande
> > Complication" which might negate the very idea of using a cavity.
>
> > ****** =A0 Prior art pointers, anyone? =A0 =A0******
>
> "Coaxial Line V.H.F. Receivers", Joseph Santangelo, W1NXY, QST, March
> 1948, volume XXXII, number 3.
>
> Basically it was a superregen using a coaxial cavity to increase the Q.
> =A0 Reported sizes were 7.5" x 2" for the outer conductor, 7.5" by 0.5"
> for the inner. =A0The author's version was silver plated, but he reported
> that aluminum and copper had been used. =A0He loaded it with a cap to get
> the right frequency.
>
> It didn't look too hard to build, but its going to have to grow for 6m.
> You _ought_ to be able to do this with CATV hardline if you don't mind
> lots of connectors at the bends or a really long, skinny radio. =A0You
> _may_ be able to get a decent Q just using some really efficient
> flexible coax, coiled up. =A0I'd even see if I could find some
> semi-hardline that I could bend into a serpentine shape, were I playing
> with this notion.
>
> --
>
> Tim Wescott
> Wescott Design Serviceshttp://www.wescottdesign.com
>
> Do you need to implement control loops in software?
> "Applied Control Theory for Embedded Systems" was written for you.
> See details athttp://www.wescottdesign.com/actfes/actfes.html- Hide quote=
d text -
>
> - Show quoted text -

I know a guy that built a stripline output circuit for a 6M amp.I think it was about 4 ft long.

Jimmie

From 9200083404035383920
X-Google-Thread: fc2a5,35cac6c641b9379f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-xfer.nntp.sonic.net!
news.astraweb.com!border1.newsrouter.astraweb.com!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi066.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need help with GPIB on HP 3586
References: <l1HEl.657$WK5.613@nwrddc01.gnilink.net>
<lOREl.23902$c45.16523@nlpi065.nbdc.sbc.com>
<irSEl.793$b11.78@nwrddc02.gnilink.net>
In-Reply-To: <irSEl.793$b11.78@nwrddc02.gnilink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 47
Message-ID: <E77Fl.26956$YU2.4180@nlpi066.nbdc.sbc.com>
NNTP-Posting-Host: 75.26.200.122
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi066.nbdc.sbc.com 1239744100 ST000 75.26.200.122 (Tue, 14 Apr 2009
17:21:40 EDT)
NNTP-Posting-Date: Tue, 14 Apr 2009 17:21:40 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
[[PAPDCA[S@GRQ\Y\ZJB^WTAUKXD@D@MGPW^OBPLAH[\RSAANVUEAE[YETZPIWWI[FCIZA^NBFXZ_D[BFN
TCNVPDTNTKHWXKB@X^B_OCJLPZ@ET_O[G\XSG@E\G[ZKVLBL^CJINM@I_KVIOR\T_M_AW_M[_BWU_HFA_]
@A_A^SGFAUDE_DFTMQPFWVW[QPJN
Date: Tue, 14 Apr 2009 14:21:38 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:2163

John KD5YI wrote:
> "Joerg" <notthisjoergsch@removethispacbell.net> wrote in message
> news:lOREl.23902$c45.16523@nlpi065.nbdc.sbc.com...
>> John KD5YI wrote:
>>> I have questions like:
>>>
>>> * The 3586 manual says in one place that the frequency
>>> increase/decrease buttons do not function in the remote mode. In the
>>> chart of commands, it says that the GPIB command for increase is UP
>>> and the GPIB command for decrease is DN. Does anyone know whether
>>> these are valid commands or not?
>>>
>>> * Can anyone provide a step-by-step procedure for the command
>>> sequence to read the 3586 signal magnitude using GPIB?

>>>
>>
>> No idea, but why not just try it out? In case you don't have all the
>> manuals they can be found here, scroll down about 40%:
>>
>> http://www.w5jgv.com/amateur_radio.htm
>>
>>
>>> * Which GPIB adaptor do you use?
>>>
>>
>> The Prologix USB. Works fine (after finding a level threshold bug and
>> the designer made new firmware for it).
>>
>> --
>> 73, Joerg
>
> Hi, Joerg -
>
> I was using a Softmark USB-GPIB unit. Although they responded to
> commands, I spent about 20 hours trying to get a reply other than
> gibberish from three different instruments with no success. I may have
> to roll my own controller, but first I have to understand GPIB.
>

That's what I had at first as well, just gibberish. Turned out the logic
threshold is way too high in the Prologix. Engaging the internal
pull-ups of the uC in there did the trick.

[...]

--
73, Joerg

From -5417420881568881986
X-Google-Thread: fc2a5,ea7e6399f9c3d96c,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 14 Apr 2009 17:07:50 -0500
From: David Harmon <source@netcom.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: CW connector
Date: Tue, 14 Apr 2009 15:07:04 -0700
Organization: I support http://www.answers.com/topic/boulder-pledge
Reply-To: "Newsgroup only please, address is no longer replyable."
<bad@example.invalid>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
Message-ID: <F-qdnRCDEM-qlHjUnZ2dnUVZ_vadnZ2d@earthlink.com>
Lines: 4
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 4.131.132.192
X-Trace: sv3-c8fuU1+gHfhHkMzF6v/
FEtu1pd7SBtANK5Uh4oVO7ToBV5Kj0hm5shyZ+xnH6sbTyaEFdvfarYFfLbG!LjHfEkgY/
ABwvIue5cSSeInKwdQ+ZnizQenz9R3QAe2UmeCR2AeZK+15tjaDo3IHB5q1gM3mpMuk!
n1K9phAEXra0x5s8DeO7Y/fPPRAKHoiX
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1313
Xref: g2news1.google.com rec.radio.amateur.homebrew:2164

Is there any particular plug/socket type connector that is an accepted standard or most prevalent kind for connecting a CW key to a radio?

From 7879046662469558303
X-Google-Thread: fc2a5,ea7e6399f9c3d96c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 14 Apr 2009 17:17:59 -0500
Date: Tue, 14 Apr 2009 15:17:59 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.21 (X11/20090318)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW connector
References: <F-qdnRCDEM-qlHjUnZ2dnUVZ_vadnZ2d@earthlink.com>
In-Reply-To: <F-qdnRCDEM-qlHjUnZ2dnUVZ_vadnZ2d@earthlink.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <xNudnZnOQokKlnjUnZ2dnUVZ_qidnZ2d@web-ster.com>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-HfBrn23f2E23uCtrbUNprSogf/EBhl6BujnZ6lS1/nu/B6BvJqOjuXvlDvFjnY/
5D5IoGYfA2t8aXan!
RCzht0z9TjR0gEKWs7nSYktDlziLUPL2Ad54VnxsuUVLoALl7aSZ16Tx2IcfjANrXGgi1ioay5ny!
Nl4x5BN+QDQ1hE4=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1759
Xref: g2news2.google.com rec.radio.amateur.homebrew:2462

David Harmon wrote:
> Is there any particular plug/socket type connector that is an accepted
> standard or most prevalent kind for connecting a CW key to a radio?
>
>

All my older rigs use a 1/4" audio connector, like a mono microphone. I tend to use 1/8" connectors, for space reasons.

Really old rigs used all sorts of things, often binding posts or tip jacks.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" was written for you.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From -923387855750956074
X-Google-Thread: fc2a5,ea7e6399f9c3d96c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!npeer01.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!spln!
extra.newsguy.com!newsp.newsguy.com!news1
From: Bill M <radioexray@geemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW connector
Date: Tue, 14 Apr 2009 18:19:26 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 6
Message-ID: <gs325f011pc@news1.newsguy.com>
References: <F-qdnRCDEM-qlHjUnZ2dnUVZ_vadnZ2d@earthlink.com>
NNTP-Posting-Host: p14d1bfbfff00000011b4ca8178c42f995e0853484e3ba9c3.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <F-qdnRCDEM-qlHjUnZ2dnUVZ_vadnZ2d@earthlink.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:2166
```

David Harmon wrote:
> Is there any particular plug/socket type connector that is an accepted
> standard or most prevalent kind for connecting a CW key to a radio?
>
>

Prevalent seems to the the 1/4 inch phone jack.

```
From 6088674177316960703
X-Google-Thread: fc2a5,ea7e6399f9c3d96c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.glorb.com!news-
out.octanews.net!indigo.octanews.net!news-2.mpls.iphouse.net.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW connector
From: Bert Hyman <bert@iphouse.com>
References: <F-qdnRCDEM-qlHjUnZ2dnUVZ_vadnZ2d@earthlink.com>
<gs325f011pc@news1.newsguy.com>
Organization: Not that you'd notice
Message-ID: <Xns9BEDB2606C424VeebleFetzer@216.250.184.7>
User-Agent: Xnews/2006.08.24
Date: 14 Apr 2009 22:33:18 GMT
Lines: 16
NNTP-Posting-Date: 14 Apr 2009 17:33:18 CDT
NNTP-Posting-Host: afa16833.newsreader.iphouse.net
X-Trace: DXC=;[gmWbfA<CUn@6@2jf]AAYVn\Tj8`^Bb[eHS>e[L>83P]l?
ecXJ@L=Vc230oU7d71QX7@2h;nGb4]VN1LKYN`0]V
X-Complaints-To: abuse@iphouse.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:2167

In news:gs325f011pc@news1.newsguy.com Bill M <radioexray@geemail.com>
wrote:

> David Harmon wrote:
>> Is there any particular plug/socket type connector that is an
>> accepted standard or most prevalent kind for connecting a CW key to a
>> radio?
>>
>>
> Prevalent seems to the the 1/4 inch phone jack.

And if the rig has a built-in keyer, usually of the three-circuit
variety.

--
Bert Hyman    St. Paul, MN  bert@iphouse.com


From 9055609152051690888
X-Google-Thread: fc2a5,35cac6c641b9379f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!2dc089b5!not-for-
mail
From: "John KD5YI" <groups2_dot_jocjo@xoxy.net>
Newsgroups: rec.radio.amateur.homebrew
References: <l1HEl.657$WK5.613@nwrddc01.gnilink.net>
```

```
<lOREl.23902$c45.16523@nlpi065.nbdc.sbc.com>
<irSEl.793$b11.78@nwrddc02.gnilink.net>
<E77Fl.26956$YU2.4180@nlpi066.nbdc.sbc.com>
Subject: Re: Need help with GPIB on HP 3586
Lines: 59
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-Antivirus: avast! (VPS 090414-0, 04/14/2009), Outbound message
X-Antivirus-Status: Clean
Message-ID: <gpcFl.925$b11.646@nwrddc02.gnilink.net>
Date: Wed, 15 Apr 2009 03:21:48 GMT
NNTP-Posting-Host: 96.226.109.223
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1239765708 96.226.109.223 (Tue, 14 Apr 2009 23:21:48
EDT)
NNTP-Posting-Date: Tue, 14 Apr 2009 23:21:48 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:2168


"Joerg" <notthisjoergsch@removethispacbell.net> wrote in message
news:E77Fl.26956$YU2.4180@nlpi066.nbdc.sbc.com...
> John KD5YI wrote:
>> "Joerg" <notthisjoergsch@removethispacbell.net> wrote in message
>> news:lOREl.23902$c45.16523@nlpi065.nbdc.sbc.com...
>>> John KD5YI wrote:
>>>> I have questions like:
>>>>
>>>> * The 3586 manual says in one place that the frequency
>>>> increase/decrease buttons do not function in the remote mode. In the
>>>> chart of commands, it says that the GPIB command for increase is UP and
>>>> the GPIB command for decrease is DN. Does anyone know whether these are
>>>> valid commands or not?
>>>>
>>>> * Can anyone provide a step-by-step procedure for the command sequence
>>>> to read the 3586 signal magnitude using GPIB?
>>>>
>>>
>>> No idea, but why not just try it out? In case you don't have all the
>>> manuals they can be found here, scroll down about 40%:
>>>
>>> http://www.w5jgv.com/amateur_radio.htm
>>>
>>>
>>>> * Which GPIB adaptor do you use?
>>>>
```

>>>
>>> The Prologix USB. Works fine (after finding a level threshold bug and
>>> the designer made new firmware for it).
>>>
>>> --
>>> 73, Joerg
>>
>> Hi, Joerg -
>>
>> I was using a Softmark USB-GPIB unit. Although they responded to
>> commands, I spent about 20 hours trying to get a reply other than
>> gibberish from three different instruments with no success. I may have to
>> roll my own controller, but first I have to understand GPIB.
>>
>
> That's what I had at first as well, just gibberish. Turned out the logic
> threshold is way too high in the Prologix. Engaging the internal pull-ups
> of the uC in there did the trick.
>
> [...]
>
> --
> 73, Joerg

I'm glad you got them to fix it because I ordered a Prologix one yesterday.
I think I should have gotten the Prologix to begin with because I need to
write my own software to do things and the Softmark was not set up for that.

73,
John

From -5448792213211926046
X-Google-Thread: fc2a5,245347c59c857409
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!f1g2000prb.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: superregen resonant cavity for narrow band reception - any prior art?
Date: Tue, 14 Apr 2009 22:29:27 -0700 (PDT)
Organization: http://groups.google.com
Lines: 67
Message-ID: <b8d41730-5e2e-4aab-877e-87d99b68c941@f1g2000prb.googlegroups.com>
References: <fa8131f8-55db-418b-bdd3-7e2432e4fdd4@r8g2000yql.googlegroups.com>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

```
X-Trace: posting.google.com 1239773367 23484 127.0.0.1 (15 Apr 2009 05:29:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 15 Apr 2009 05:29:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f1g2000prb.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.8)
     Gecko/2009032609 Firefox/3.0.8,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2169

On Apr 14, 9:46=A0am, spamhog <n1...@hotmail.com> wrote:
> As the sunspot cycle is inching forward, I've been considering adding
> an upconverter to Charles Kitchin's 50MHz audio-squelched superregen
> design, in order to make a sensitive and very quickly tuneable
> 15-30MHz receiver intended to take the pulse of propagation on the
> higher HF bands. =A0The idea came from an unpretentious Russian design.
> (No, it wasn't a fremodyne).
>
> In a classic case of mission creep, I observed that a fixed IF lends
> itself to a further step. I searched for prior art in inducing super-
> regeneration in a resonant cavity.
>
> If that could help narrowing the passband, it would be a nice trick
> for upconversion.
>
> I found few and laconic references at almost-otherwordly microwave
> frequencies, Gunn diodes, folded spectra, etc etc.
>
> If I could make a resonant cavity in no time I'd not ask for advice
> before jumping in, but this would be my very first, and shooting for
> 40-60Mz IF it risks being somewhat monumental - short of pigtailing
> the resonator, or doing a folded design, or some other "Grande
> Complication" which might negate the very idea of using a cavity.
>
> ****** =A0 Prior art pointers, anyone? =A0 =A0******
>
> TIA
>
> Filippo N1JPR
>
> -------------------------------------------
>
> P.S.: Just to prempt repetitions of the obvious I'll repeat it myself:
> Why don't you use a [ superhet =A6 xtal roofing filter =A6 downconversion
> =A6 cod liver oil =A6 snake oil ]. =A0Sorry I never heard of it, so it's
> likely to be a bad idea. =A0Are you a Communist? =A0Never heard of a 40MH=
z
> cavity. =A0A superregen won't demod [ CW =A6 SSB =A6 [QM=A6P]SKxx =A6 del=
ta-
> sigma =A6 ancient Greek ] ! =A0Is this gonna be a portable receiver in
> that you can put it in the back of a SUV - if someone helps you carry
> the 6' long cavity, that is? =A0You will need a [ BFO =A6 product detecto=
r
> =A6 AMS =A6 DSP =A6 LPF =A6 postprocessing =A6 Photoshop ]. =A0IF passban=
d will be
> too broad, although I have no idea how broad since I never used a
> cavity for that. =A0:-o

I think it's the APN141 that uses a gated regen with a cavity.  You
might get some interesting ideas from it, if you can find any
documentation on it.  It's a cute design that made me think "out of
the box" when I learned it many years ago.

You're talking about a low enough frequency that you'll probably
benefit from a calculation of the size of resonator you'll need to get
the same Q as you can get from an LC tank.  I suspect that unless you
are willing to make a really big coaxial resonator, you'll be able to
do better with an LC tank, or equivalently a helical resonator.  At
1GHz and above, a cavity or coaxial resonator usually makes a lot of
sense.  At 1MHz, a cavity or coaxial resonator probably never makes
sense.  At 50MHz---well, do some careful thinking about it before you
jump in.  A coil a couple inches in diameter and two to four inches
long should get you to Qu well in excess of 1000, if you are careful
with the construction.

Cheers,
Tom



From 8903391256185790431
X-Google-Thread: fc2a5,245347c59c857409
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!q2g2000vbr.googlegroups.com!not-for-
mail
From: "JRCCrabtree@gmail.com" <JRCCrabtree@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: superregen resonant cavity for narrow band reception - any prior
     art?
Date: Wed, 15 Apr 2009 06:08:11 -0700 (PDT)
Organization: http://groups.google.com
Lines: 42
Message-ID: <caad68b6-3a3c-42f0-a928-b431f0ba65ed@q2g2000vbr.googlegroups.com>
References: <fa8131f8-55db-418b-bdd3-7e2432e4fdd4@r8g2000yql.googlegroups.com>
NNTP-Posting-Host: 205.188.117.19
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1239800891 14571 127.0.0.1 (15 Apr 2009 13:08:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 15 Apr 2009 13:08:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q2g2000vbr.googlegroups.com; posting-host=205.188.117.19;
     posting-account=oReaeAoAAAC8QjvgaTJKVc8n6hZSq0yP
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 7.0; Windows NT
     5.1),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-dtc-te03.proxy.aol.com[CDBC7083] (Prism/1.2.1),
     HTTP/1.1 cache-dtc-ae15.proxy.aol.com[CDBC7513] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:2170

On Apr 14, 11:46=EF=BF=BDam, spamhog <n1...@hotmail.com> wrote:
> As the sunspot cycle is inching forward, I've been considering adding
> an upconverter to Charles Kitchin's 50MHz audio-squelched superregen
> design, in order to make a sensitive and very quickly tuneable
> 15-30MHz receiver intended to take the pulse of propagation on the
> higher HF bands. =EF=BF=BDThe idea came from an unpretentious Russian des=
ign.
> (No, it wasn't a fremodyne).
>
> In a classic case of mission creep, I observed that a fixed IF lends
> itself to a further step. I searched for prior art in inducing super-
> regeneration in a resonant cavity.
>
> If that could help narrowing the passband, it would be a nice trick
> for upconversion.
>
> I found few and laconic references at almost-otherwordly microwave
> frequencies, Gunn diodes, folded spectra, etc etc.
>
> If I could make a resonant cavity in no time I'd not ask for advice
> before jumping in, but this would be my very first, and shooting for
> 40-60Mz IF it risks being somewhat monumental - short of pigtailing
> the resonator, or doing a folded design, or some other "Grande
> Complication" which might negate the very idea of using a cavity.
>
> ****** =EF=BF=BD Prior art pointers, anyone? =EF=BF=BD =EF=BF=BD******
>
> TIA
>
> Filippo N1JPR
>

IIRC N1TEV's design used a sine wave waveform in the quench
oscillator.  As such the receiver is slope controlled, in which case
the bandwidth depends upon the rate of change of the admittance across
the tuned circuit as it goes into an oscillation condition, and not
the Q of the resonant circuit.

The standard reference is "Super-Regenerative Receivers", by J.R.
Whitehead, Cambridge University Press, 1950.

73 John  KC0G


From -5233380681914697280
X-Google-Thread: fc2a5,ea7e6399f9c3d96c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 15 Apr 2009 09:45:51 -0500
Date: Wed, 15 Apr 2009 12:07:02 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW connector
References: <F-qdnRCDEM-qlHjUnZ2dnUVZ_vadnZ2d@earthlink.com>
In-Reply-To: <F-qdnRCDEM-qlHjUnZ2dnUVZ_vadnZ2d@earthlink.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <XcOdnbYn3LaCbnjUnZ2dnUVZ8tCdnZ2d@pipex.net>
Lines: 11
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.72.230
X-Trace: sv3-b9I+ItjhnWXA58eJu5w+NUXQA9BzH/
ze22+L5k2476yn2RRwk2+aNV2cngB1WbRoLfz9tMh3cjnasKj!Ub30J8CmaFCToUSQEsCdci7ziO0gUch/
77n+zIX2ufXNrnjKs2qtCayPEX2MAtmpO87k9F8gU9p5!iGuozwqrpgHhIUcI98K3YkiO9Q==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1684
Xref: g2news2.google.com rec.radio.amateur.homebrew:2468

David Harmon wrote:
> Is there any particular plug/socket type connector that is an accepted
> standard or most prevalent kind for connecting a CW key to a radio?
>
>
============================================
Most (older) radios have a 6.3 mm (1/4 inch) telephone jack socket
either 2 lead or 3 lead  (stereo model)  when having a built-in keyer.
I also have seen radios with for the Key  a RCA  audio socket .

Frank   GM0CSZ / KN6WH


From 1438240067375616289
X-Google-Thread: fc2a5,ea7e6399f9c3d96c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
```

```
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <F-qdnRCDEM-qlHjUnZ2dnUVZ_vadnZ2d@earthlink.com>
Subject: Re: CW connector
Lines: 10
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <TGnFl.984$b11.740@nwrddc02.gnilink.net>
Date: Wed, 15 Apr 2009 16:11:31 GMT
NNTP-Posting-Host: 96.229.49.15
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1239811891 96.229.49.15 (Wed, 15 Apr 2009 12:11:31
EDT)
NNTP-Posting-Date: Wed, 15 Apr 2009 12:11:31 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2469
X-Original-Bytes: 1545

"David Harmon" <source@netcom.com> wrote in message
news:F-qdnRCDEM-qlHjUnZ2dnUVZ_vadnZ2d@earthlink.com...
> Is there any particular plug/socket type connector that is an accepted
> standard or most prevalent kind for connecting a CW key to a radio?
>
Most are 1/4 or more recently 1/8 for straight keys with 3 circuit for
keyers.  It varies some.  I find it easier to keep the cord with the radio
and use insulated alligator clips and move the favorite key around.  This is
the tip for club stations and FD where people bring in their own key.



From -8118357993118809410
X-Google-Thread: fc2a5,35cac6c641b9379f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
flpi147.ffdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need help with GPIB on HP 3586
References: <l1HEl.657$WK5.613@nwrddc01.gnilink.net>
<lOREl.23902$c45.16523@nlpi065.nbdc.sbc.com>
<irSEl.793$b11.78@nwrddc02.gnilink.net>
<E77Fl.26956$YU2.4180@nlpi066.nbdc.sbc.com>
<gpcFl.925$b11.646@nwrddc02.gnilink.net>
In-Reply-To: <gpcFl.925$b11.646@nwrddc02.gnilink.net>
```

```
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 72
Message-ID: <MVnFl.15757$8_3.2939@flpi147.ffdc.sbc.com>
NNTP-Posting-Host: 75.26.160.250
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi147.ffdc.sbc.com 1239812844 ST000 75.26.160.250 (Wed, 15 Apr 2009
12:27:24 EDT)
NNTP-Posting-Date: Wed, 15 Apr 2009 12:27:24 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
Q[R_PJON_ZUYB_TY]ZKTOFTBTR\B@GXLN@GZ_GYO^ZWZUYICD^RAQBKZQTZTX\_I[^G_KGFNON[ZOE_AZN
VO^\XGGNTCIRPIJH[@RQKBXLRZ@CD^HKANYVW@RLGEZEJN@\_WZJBNZYYKVIOR]T]MNMG_Z[YVWSCH_Q[G
PC_A@CARQVXDSDA^M]@DRVUM@RBM
Date: Wed, 15 Apr 2009 09:33:53 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2470

John KD5YI wrote:
>
> "Joerg" <notthisjoergsch@removethispacbell.net> wrote in message
> news:E77Fl.26956$YU2.4180@nlpi066.nbdc.sbc.com...
>> John KD5YI wrote:
>>> "Joerg" <notthisjoergsch@removethispacbell.net> wrote in message
>>> news:lOREl.23902$c45.16523@nlpi065.nbdc.sbc.com...
>>>> John KD5YI wrote:
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>>>>> * The 3586 manual says in one place that the frequency
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>>>>> whether these are valid commands or not?
>>>>>
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>>>>>
>>>>
>>>> No idea, but why not just try it out? In case you don't have all the
>>>> manuals they can be found here, scroll down about 40%:
>>>>
>>>> http://www.w5jgv.com/amateur_radio.htm
>>>>
>>>>
>>>>> * Which GPIB adaptor do you use?
>>>>>
>>>>
>>>> The Prologix USB. Works fine (after finding a level threshold bug
>>>> and the designer made new firmware for it).
>>>>
>>>> --
>>>> 73, Joerg
>>>
>>> Hi, Joerg -
```

>>>
>>> I was using a Softmark USB-GPIB unit. Although they responded to
>>> commands, I spent about 20 hours trying to get a reply other than
>>> gibberish from three different instruments with no success. I may
>>> have to roll my own controller, but first I have to understand GPIB.
>>>
>>
>> That's what I had at first as well, just gibberish. Turned out the
>> logic threshold is way too high in the Prologix. Engaging the internal
>> pull-ups of the uC in there did the trick.
>>
>> [...]
>>
>> --
>> 73, Joerg
>
>
> I'm glad you got them to fix it because I ordered a Prologix one
> yesterday. I think I should have gotten the Prologix to begin with
> because I need to write my own software to do things and the Softmark
> was not set up for that.
>

If you run into issues and think it's related to the Prologix design just write to the designer (Abdul). He is very responsive and actually the firmware you are getting with the new one will reflect the Vt change he and I found necessary. All others with older versions can just download the new firmware from the Prologix site.

I guess you've already found this site but just in case others here have not, this is a great tool set for GPIB:

http://www.thegleam.com/ke5fx/gpib/readme.htm

--
73, Joerg

From -8312125208336529152
X-Google-Thread: fc2a5,35cac6c641b9379f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!news.bellsouth.net!border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 15 Apr 2009 14:08:04 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need help with GPIB on HP 3586
References: <l1HEl.657$WK5.613@nwrddc01.gnilink.net>
<E77Fl.26956$YU2.4180@nlpi066.nbdc.sbc.com>
<gpcFl.925$b11.646@nwrddc02.gnilink.net>

```
<MVnFl.15757$8_3.2939@flpi147.ffdc.sbc.com>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Wed, 15 Apr 2009 11:49:18 -0700
Message-ID: <eqmhb6-cmq.ln1@radagast.org>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.159.209.148
X-Trace: sv3-CAayXIo+LOBUzvEo2T3aL4MN96f/oPha04JkpBXlv2qpTG/lD/
l0MEJoj0VGZ2LecqngNE6HAztt8Ao!2WtY4JCNGDSCcFelYFrYei0RRjjpqVjD4cDa/
omzK1I5BhXxPSS2YeeUKLTt4w==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:2174

In article <MVnFl.15757$8_3.2939@flpi147.ffdc.sbc.com>,
Joerg  <notthisjoergsch@removethispacbell.net> wrote:

>If you run into issues and think it's related to the Prologix design
>just write to the designer (Abdul). He is very responsive and actually
>the firmware you are getting with the new one will reflect the Vt change
>he and I found necessary. All others with older versions can just
>download the new firmware from the Prologix site.

Except for those of us with the first-generation Prologix product,
alas.  It has a different architecture, and (as far as I can tell) no
upgrade path available.

It works reasonably well with my Tek scope, as long as I'm careful
with the command sequences and don't ask the scope to send any data
back in binary mode.

-- 
Dave Platt <dplatt@radagast.org>                                   AE6EO
Friends of Jade Warrior home page:  http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!


From 8011185275620565214
X-Google-Thread: fc2a5,245347c59c857409
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!h28g2000yqd.googlegroups.com!not-for-
mail
From: "JRCCrabtree@gmail.com" <JRCCrabtree@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: superregen resonant cavity for narrow band reception - any prior
     art?
```

```
Date: Wed, 15 Apr 2009 12:56:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 46
Message-ID: <e3f43d4e-4ee5-4952-98cc-2b0fd7cfc101@h28g2000yqd.googlegroups.com>
References: <fa8131f8-55db-418b-bdd3-7e2432e4fdd4@r8g2000yql.googlegroups.com>
     <caad68b6-3a3c-42f0-a928-b431f0ba65ed@q2g2000vbr.googlegroups.com>
NNTP-Posting-Host: 64.12.117.19
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1239825373 28849 127.0.0.1 (15 Apr 2009 19:56:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 15 Apr 2009 19:56:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h28g2000yqd.googlegroups.com; posting-host=64.12.117.19;
     posting-account=oReaeAoAAAC8QjvgaTJKVc8n6hZSq0yP
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 7.0; Windows NT
     5.1),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-mtc-te03.proxy.aol.com[400C7083] (Prism/1.2.1),
     HTTP/1.1 cache-mtc-ae15.proxy.aol.com[400C7513] (Traffic-Server/6.1.5 [uScM])
Xref: g2news2.google.com rec.radio.amateur.homebrew:2472

On Apr 15, 8:08=EF=BF=BDam, "JRCCrabt...@gmail.com" <JRCCrabt...@gmail.com>
wrote:
> On Apr 14, 11:46 am, spamhog <n1...@hotmail.com> wrote:
> >
> > As the sunspot cycle is inching forward, I've been considering adding
> > an upconverter to Charles Kitchin's 50MHz audio-squelched superregen
> > design, in order to make a sensitive and very quickly tuneable
> > 15-30MHz receiver intended to take the pulse of propagation on the
> > higher HF bands. The idea came from an unpretentious Russian design.
> > (No, it wasn't a fremodyne).
>
> > In a classic case of mission creep, I observed that a fixed IF lends
> > itself to a further step. I searched for prior art in inducing super-
> > regeneration in a resonant cavity.
>
> > If that could help narrowing the passband, it would be a nice trick
> > for upconversion.
>
> > I found few and laconic references at almost-otherwordly microwave
> > frequencies, Gunn diodes, folded spectra, etc etc.
>
> > If I could make a resonant cavity in no time I'd not ask for advice
> > before jumping in, but this would be my very first, and shooting for
> > 40-60Mz IF it risks being somewhat monumental - short of pigtailing
> > the resonator, or doing a folded design, or some other "Grande
> > Complication" which might negate the very idea of using a cavity.
>
> > ****** Prior art pointers, anyone? ******
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```

>
> > Filippo N1JPR
>
> IIRC N1TEV's design used a sine wave waveform in the quench
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> the bandwidth depends upon the rate of change of the admittance across
> the tuned circuit as it goes into an oscillation condition, and not
> the Q of the resonant circuit.
>
> The standard reference is "Super-Regenerative Receivers", by J.R.
> Whitehead, Cambridge University Press, 1950.
>
> 73 John =EF=BF=BDKC0G-

I meant to say "conductance" not "admittance"

From -8507151517490400961
X-Google-Thread: fc2a5,35cac6c641b9379f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!2dc089b5!not-for-
mail
From: "John KD5YI" <groups2_dot_jocjo@xoxy.net>
Newsgroups: rec.radio.amateur.homebrew
References: <l1HEl.657$WK5.613@nwrddc01.gnilink.net>
<lOREl.23902$c45.16523@nlpi065.nbdc.sbc.com>
<irSEl.793$b11.78@nwrddc02.gnilink.net>
<E77Fl.26956$YU2.4180@nlpi066.nbdc.sbc.com>
<gpcFl.925$b11.646@nwrddc02.gnilink.net>
<MVnFl.15757$8_3.2939@flpi147.ffdc.sbc.com>
Subject: Re: Need help with GPIB on HP 3586
Lines: 85
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-Antivirus: avast! (VPS 090415-0, 04/15/2009), Outbound message
X-Antivirus-Status: Clean
Message-ID: <DWxFl.381$N5.158@nwrddc01.gnilink.net>
Date: Thu, 16 Apr 2009 03:50:59 GMT
NNTP-Posting-Host: 96.226.109.223
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1239853859 96.226.109.223 (Wed, 15 Apr 2009 23:50:59

```
EDT)
NNTP-Posting-Date: Wed, 15 Apr 2009 23:50:59 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:2176
X-Original-Bytes: 4300


"Joerg" <notthisjoergsch@removethispacbell.net> wrote in message
news:MVnFl.15757$8_3.2939@flpi147.ffdc.sbc.com...
> John KD5YI wrote:
>>
>> "Joerg" <notthisjoergsch@removethispacbell.net> wrote in message
>> news:E77Fl.26956$YU2.4180@nlpi066.nbdc.sbc.com...
>>> John KD5YI wrote:
>>>> "Joerg" <notthisjoergsch@removethispacbell.net> wrote in message
>>>> news:lOREl.23902$c45.16523@nlpi065.nbdc.sbc.com...
>>>>> John KD5YI wrote:
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>>>>>> * The 3586 manual says in one place that the frequency
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>>>>> No idea, but why not just try it out? In case you don't have all the
>>>>> manuals they can be found here, scroll down about 40%:
>>>>>
>>>>> http://www.w5jgv.com/amateur_radio.htm
>>>>>
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>>>>>> * Which GPIB adaptor do you use?
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>>>>>
>>>>> The Prologix USB. Works fine (after finding a level threshold bug and
>>>>> the designer made new firmware for it).
>>>>>
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>>>> Hi, Joerg -
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>>>> I was using a Softmark USB-GPIB unit. Although they responded to
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>>>> gibberish from three different instruments with no success. I may have
>>>> to roll my own controller, but first I have to understand GPIB.
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>>> threshold is way too high in the Prologix. Engaging the internal
```

>>> pull-ups of the uC in there did the trick.
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>> because I need to write my own software to do things and the Softmark was
>> not set up for that.
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> If you run into issues and think it's related to the Prologix design just
> write to the designer (Abdul). He is very responsive and actually the
> firmware you are getting with the new one will reflect the Vt change he
> and I found necessary. All others with older versions can just download
> the new firmware from the Prologix site.
>
> I guess you've already found this site but just in case others here have
> not, this is a great tool set for GPIB:
>
> http://www.thegleam.com/ke5fx/gpib/readme.htm
>
> --
> 73, Joerg

I got it today and it works very well. I had it talking and listening to all
three of the GPIB-capable instruments I have in less than an hour.

Thanks for the link.

73,
John

From -515053363361087450
X-Google-Thread: fc2a5,35cac6c641b9379f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!newshub.sdsu.edu!
flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!nlpi061.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need help with GPIB on HP 3586
References: <l1HEl.657$WK5.613@nwrddc01.gnilink.net>

```
<lOREl.23902$c45.16523@nlpi065.nbdc.sbc.com>
<irSEl.793$b11.78@nwrddc02.gnilink.net>
<E77Fl.26956$YU2.4180@nlpi066.nbdc.sbc.com>
<gpcFl.925$b11.646@nwrddc02.gnilink.net>
<MVnFl.15757$8_3.2939@flpi147.ffdc.sbc.com>
<DWxFl.381$N5.158@nwrddc01.gnilink.net>
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Lines: 91
Message-ID: <7KHFl.4995$im1.1689@nlpi061.nbdc.sbc.com>
NNTP-Posting-Host: 75.26.172.232
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi061.nbdc.sbc.com 1239894019 ST000 75.26.172.232 (Thu, 16 Apr 2009
11:00:19 EDT)
NNTP-Posting-Date: Thu, 16 Apr 2009 11:00:19 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
SCSYQN_@FS@GRQ\Y\ZJB^WTAUKXD@D@MGPW^OBPLAH[\RWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
TINTDDMVW[X\THOPXZRVOCJTUTPC\_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Thu, 16 Apr 2009 08:00:15 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:2177

John KD5YI wrote:
>
> "Joerg" <notthisjoergsch@removethispacbell.net> wrote in message
> news:MVnFl.15757$8_3.2939@flpi147.ffdc.sbc.com...
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> all three of the GPIB-capable instruments I have in less than an hour.
>
> Thanks for the link.

```
>

Great! Yours is probably screaming-yellow, mine's the now ancient silver
version. I still have to make angles for the GPIB side from Digikey
connectors and some ribbon cable. The Prologix plus USB cable sticks out
too much towards the back, easy to crush when moving an older analyzer.

--
73, Joerg


From 8129844712622861039
X-Google-Thread: fc2a5,245347c59c857409
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!h28g2000yqd.googlegroups.com!not-for-
mail
From: spamhog <n1jpr@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: superregen resonant cavity for narrow band reception - any prior
     art?
Date: Thu, 16 Apr 2009 08:42:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 4
Message-ID: <f129ec65-b488-47a4-a8d4-fac4b0c3b766@h28g2000yqd.googlegroups.com>
References: <fa8131f8-55db-418b-bdd3-7e2432e4fdd4@r8g2000yql.googlegroups.com>
     <caad68b6-3a3c-42f0-a928-b431f0ba65ed@q2g2000vbr.googlegroups.com>
     <e3f43d4e-4ee5-4952-98cc-2b0fd7cfc101@h28g2000yqd.googlegroups.com>
NNTP-Posting-Host: 85.20.216.126
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1239896529 30040 127.0.0.1 (16 Apr 2009 15:42:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 16 Apr 2009 15:42:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h28g2000yqd.googlegroups.com; posting-host=85.20.216.126;
     posting-account=tuTwjgoAAABgsw0HP7EbLMV3yMd8jh4C
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.64 (Windows NT 5.1; U; en) Presto/
2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2178

Tim, Tom, Jimmie, John, thanks you all! This thing might work, There's
no way around the need to get my feet wet and build/find some cavity.

Filippo N1JPR


From 5911883913074580006
X-Google-Thread: fc2a5,245347c59c857409
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
```

```
Path: g2news2.google.com!postnews.google.com!f19g2000yqh.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: superregen resonant cavity for narrow band reception - any prior
     art?
Date: Thu, 16 Apr 2009 09:14:51 -0700 (PDT)
Organization: http://groups.google.com
Lines: 59
Message-ID: <eb7761ed-69db-41c8-9088-4b80aa6a0161@f19g2000yqh.googlegroups.com>
References: <fa8131f8-55db-418b-bdd3-7e2432e4fdd4@r8g2000yql.googlegroups.com>
     <caad68b6-3a3c-42f0-a928-b431f0ba65ed@q2g2000vbr.googlegroups.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1239898491 3893 127.0.0.1 (16 Apr 2009 16:14:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 16 Apr 2009 16:14:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f19g2000yqh.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2476

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> The standard reference is "Super-Regenerative Receivers", by J.R.
> Whitehead, Cambridge University Press, 1950.
>
> 73 John =A0KC0G- Hide quoted text -
>
> - Show quoted text -

Initially I thought the OP was going to incorporate the very high Q
resonant circuit in his converter , to me that would be the logical
thing to do, then I re-read it. Of course you are correct. I can
greatly appreciate that the OP wants to do things his way just
because thats the way he wants to do it. Given the complexity of the
circuit he is going to eventually have I think he should just build a
little superhet for his purposes.

Jimmie

From -5936125918338461315
X-Google-Thread: fc2a5,245347c59c857409
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!s21g2000vbb.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: superregen resonant cavity for narrow band reception - any prior art?
Date: Thu, 16 Apr 2009 11:54:15 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <e3067d97-4db6-4249-871b-0ff8138d4517@s21g2000vbb.googlegroups.com>
References: <fa8131f8-55db-418b-bdd3-7e2432e4fdd4@r8g2000yql.googlegroups.com>
<caad68b6-3a3c-42f0-a928-b431f0ba65ed@q2g2000vbr.googlegroups.com>
<e3f43d4e-4ee5-4952-98cc-2b0fd7cfc101@h28g2000yqd.googlegroups.com>
<f129ec65-b488-47a4-a8d4-fac4b0c3b766@h28g2000yqd.googlegroups.com>

NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1239908055 19740 127.0.0.1 (16 Apr 2009 18:54:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 16 Apr 2009 18:54:15 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s21g2000vbb.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.8)
     Gecko/2009032609 Firefox/3.0.8,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2477

On Apr 16, 8:42=A0am, spamhog <n1...@hotmail.com> wrote:
> Tim, Tom, Jimmie, John, thanks you all! This thing might work, There's
> no way around the need to get my feet wet and build/find some cavity.
>
> Filippo N1JPR

Further to my comment about how big a coaxial resonator must be to get high Q: to get Qu of 1000 at 50MHz will require an air-dielectric line almost 1.5 inches OD. A quarter wavelength is about 60 inches; you can shorten that some by loading the open end with capacitance, but expect it will be at least half that long. Compare that with a coil of 8 turns of #10 AWG copper wire 1.25 inches ID, spaced 2 wire diameters center-to-center (less than 2 inches total length) that will also give you a Qu over 1000.

I think if I had an overwhelming urge to try a design using a cavity (or coaxial cavity) resonator, I'd do it at about 1GHz, or maybe even 500MHz, where I can make a resonator with high Qu in a practical size, and where I can't wind a coil that's big enough to get really high Q and also have a high self resonant frequency. For example, at 1GHz, a quarter wave air dielectric cavity will be about 3 inches long, and if I make it from "3/4-inch" copper pipe (properly cleaned), I can get Qu well over 2000; it will be very tough to make a coil that has a self-resonance above 1GHz that has a Qu even close to 1000 (short of using superconducting wire!).

There are very practical reasons that you don't see cavity resonators at low frequencies: you can do better with smaller, cheaper parts.

Cheers,
Tom

From -6560190875616049084
X-Google-Thread: fc2a5,ea7e6399f9c3d96c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!s20g2000yqh.googlegroups.com!not-for-

```
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW connector
Date: Thu, 16 Apr 2009 13:17:31 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <287b1174-0625-4660-8320-556f067ed696@s20g2000yqh.googlegroups.com>
References: <F-qdnRCDEM-qlHjUnZ2dnUVZ_vadnZ2d@earthlink.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1239913051 19075 127.0.0.1 (16 Apr 2009 20:17:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 16 Apr 2009 20:17:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s20g2000yqh.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB5;
     .NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2181

On Apr 14, 6:07=A0pm, David Harmon <sou...@netcom.com> wrote:
> Is there any particular plug/socket type connector that is an accepted
> standard or most prevalent kind for connecting a CW key to a radio?

Quarter inch phone plug is most common on equipment from the 50's,
60's, 70's. A few use a phono (RCA) plug.

A lot of recent equipment has an 1/8" stereo jack that allows you to
use an iambic paddle on the rig's built in keyer.

There have in the past few months been a couple of QST reviews of
paddles and portable paddles where, for some bizarre reason, the
reviewer assumed that a typical user was incapable of wiring the
connecting plug or correcting the wiring if left and right was
reversed. I thought this was a little odd, but maybe a lot of newbie
hams really cannot wire a plug. I will admit that the cheapie plugs
and jacks from Radio Shack, Mouser, etc., are pretty crappy and melt
the insulator if you are too heavy handed with a soldering gun. The
Switchcraft plugs and jacks (a lot more money than the cheap stuff!)
are a joy to work with.

Tim.


From -1637584241744494650
X-Google-Thread: fc2a5,ea7e6399f9c3d96c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!h2g2000yqg.googlegroups.com!not-for-
```

mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW connector
Date: Thu, 16 Apr 2009 18:55:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 38
Message-ID: <8187339e-bd55-466b-a4e0-30da711f1e72@h2g2000yqg.googlegroups.com>
References: <F-qdnRCDEM-qlHjUnZ2dnUVZ_vadnZ2d@earthlink.com>
     <287b1174-0625-4660-8320-556f067ed696@s20g2000yqh.googlegroups.com>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1239933349 3650 127.0.0.1 (17 Apr 2009 01:55:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 17 Apr 2009 01:55:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h2g2000yqg.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.8)
     Gecko/2009032609 Firefox/3.0.8,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2182

On Apr 16, 1:17=A0pm, Tim Shoppa <sho...@trailing-edge.com> wrote:
> On Apr 14, 6:07=A0pm, David Harmon <sou...@netcom.com> wrote:
>
> > Is there any particular plug/socket type connector that is an accepted
> > standard or most prevalent kind for connecting a CW key to a radio?
>
> Quarter inch phone plug is most common on equipment from the 50's,
> 60's, 70's. A few use a phono (RCA) plug.
>
> A lot of recent equipment has an 1/8" stereo jack that allows you to
> use an iambic paddle on the rig's built in keyer.
>
> There have in the past few months been a couple of QST reviews of
> paddles and portable paddles where, for some bizarre reason, the
> reviewer assumed that a typical user was incapable of wiring the
> connecting plug or correcting the wiring if left and right was
> reversed. I thought this was a little odd, but maybe a lot of newbie
> hams really cannot wire a plug. I will admit that the cheapie plugs
> and jacks from Radio Shack, Mouser, etc., are pretty crappy and melt
> the insulator if you are too heavy handed with a soldering gun. The
> Switchcraft plugs and jacks (a lot more money than the cheap stuff!)
> are a joy to work with.
>
> Tim.

Which is not to say that Mouser ONLY carries "cheapie" plugs and jacks. They are a Deltron distributor, and Deltron makes some really fine parts. For one of their 1/4" phone plugs, see

http://www.dem-uk.com/DEM_PDFs/326.pdf. I've been using Deltron XLR
connectors for over 10 years, and find they are a real joy to assemble
and to use, and have held up extremely well in a professional audio
environment. The XLRs beat the Switchcrafts hands down, and I
personally like them better than Neutrik. But their over $10 each
price for 1/4" phone plugs probably isn't for everyone. ;-) (Mouser
also sells Switchcraft...)

Cheers,
Tom

From -3502760014887503763
X-Google-Thread: fc2a5,90a989b032f13f4c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news.newsland.it!
nntp.infostrada.it!i2unix!not-for-mail
From: "LAB" <no@mail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: nixie driver
Date: Fri, 17 Apr 2009 18:38:01 +0200
Organization: IUnet
Lines: 7
Message-ID: <gsab8r$ifa$1@serv1.iunet.it>
References: <83cd6cb3-043d-4bf3-ac92-4dd429e7a7bc@q9g2000yqc.googlegroups.com>
     <01029c48-2d92-46cf-ac3f-cdc0ded782aa@f14g2000vbf.googlegroups.com>
<730ba22a-3477-4ec5-8615-1432871e624a@h28g2000yqd.googlegroups.com>
<i3JEl.5384$Lr6.4870@flpi143.ffdc.sbc.com>
NNTP-Posting-Host: 212.162.109.107
X-Trace: serv1.iunet.it 1239986267 18922 212.162.109.107 (17 Apr 2009 16:37:47
GMT)
X-Complaints-To: newsmaster@iunet.it
NNTP-Posting-Date: 17 Apr 2009 16:37:47 GMT
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Xref: g2news2.google.com rec.radio.amateur.homebrew:2480

    You can find K155ID1 here for 1.50USD:
http://www.tubehobby.com/show_det.php?det=34

--
Gianluca

From -4141635796244434765
X-Google-Thread: fc2a5,c21f234e2546f0aa,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nx02.iad01.newshosting.com!
newshosting.com!novia!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 18 Apr 2009 22:38:50 -0500
Date: Sun, 19 Apr 2009 03:38:50 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Thunderbird 2.0.0.21 (Windows/20090302)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Looking for M67715 PA Module
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <69CdnYFqo8lXAXfUnZ2dnUVZ_qadnZ2d@bright.net>
Lines: 5
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-WrndxBLPTCLdgugVxjtxLXS2GehBPnML5l6xoUUa0rtUs4rE3KjD/
QHAKjyIY8OMixuAuD6Df7rQ/Em!m7NGsL+um6rGPI0bCf5uIuO1KwB0ctmLBH/
MSCZ2DHv1XW6brDZo16WMZBNHz+gYXrYrF3D9+cJg!kcMa8iXuCw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2481
```

Anyone have a new one for sale? My usual supplier (RF Parts) says they
are all gone. Need one for my 1296 transverter project.

Scott, N0EDV
http://shop.ebay.com/merchant/jracepilot_W0QQ_dmdZ1QQ_in_kwZ1QQ_ipgZ50QQ_sopZ12?
_rdc=1

```
From 8838566583413071920
X-Google-Thread: fc2a5,2bf81b15d27f746f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
a39g2000yqc.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: If a mosfet works fine than why not use a thyristor ?
Date: Mon, 2 Mar 2009 10:25:13 -0800 (PST)
Organization: http://groups.google.com
Lines: 20
Message-ID: <eb285b6d-bc54-440f-820c-09ddbbff79d5@a39g2000yqc.googlegroups.com>
References: <49aa4d34$0$31185$6d4158fb@reader.xsnews.nl>
<70v7hqFi5e1lU1@mid.individual.net>
     <49aac7ea$0$17425$6d4158fb@reader.xsnews.nl>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
```

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Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1236018313 31320 127.0.0.1 (2 Mar 2009 18:25:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 2 Mar 2009 18:25:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a39g2000yqc.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1985

On Mar 1, 12:37=A0pm, "D. v. Bilt" <n...@here.com> wrote:
> "Bob" <biasco...@invalid.inv>
>
> >> =A0 =A0 Because a power mosfet is far too expensive to hobby around wi=
th.
>
> > What? =A0The IRF730 (for example) is capable of 50 Watts at up to 25 MH=
z for
> > very little drive, and costs under $1!
>
> > Bob
>
> =A0 Agreed. But now the 150 W and up versions for 2 meters..
>
> =A0 b.t.w. since when did the u.s. agree to go metric ? (1888?) =A0not on=
ly for hams.

I wonder what the cost would be on an SCR that oprates at 150 Mhz.

Jimmie


From -4770276808502963245
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
news.cse.ohio-state.edu!pitt.edu!egsner!news.cirr.com!sdf.lonestar.org!sdog2008
From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: #Re: Sharing Internet Connection
Date: Mon, 2 Mar 2009 18:54:58 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 44
Message-ID: <Pine.NEB.4.64.0903021853010.26935@sdf.lonestar.org>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
 <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
 <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
 <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
 <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
 <i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
 <3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
<QpLpl.36525$g63.20199@newsfe24.iad>
 <0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
 <slrngqf939.1rqr.nomail@xs7.xs4all.nl>
<0001HW.C5CCE8A9006B85F9B01AD9AF@news.sf.sbcglobal.net>
NNTP-Posting-Host: sdf.lonestar.org
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: chessie.cirr.com 1236020102 18904 192.94.73.1 (2 Mar 2009 18:55:02 GMT)
X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Mon, 2 Mar 2009 18:55:02 +0000 (UTC)
In-Reply-To: <0001HW.C5CCE8A9006B85F9B01AD9AF@news.sf.sbcglobal.net>
Xref: g2news2.google.com rec.radio.amateur.antenna:10224
rec.radio.amateur.homebrew:2283 rec.radio.amateur.misc:4140
```

Don't feed the trolls, don't be a troll.

Some trolls like to think they have a right to be: netcop, self-appointed censors, judges-juries-executioners, etc.

On Fri, 27 Feb 2009, Esther & Fester Bestertester wrote:

```
> Date: Fri, 27 Feb 2009 00:47:37 -0800
> From: Esther & Fester Bestertester <not@me.really>
> Newsgroups: rec.radio.amateur.antenna, rec.radio.amateur.homebrew,
>     rec.radio.amateur.misc
> Subject: Re: Sharing Internet Connection
>
>> Again???  What do you want?
>
> Relax...
>
> There have been 4 OT posts. Each poster apparently needs a little help...
>
>> It has been taken to another thread and still you repeat your comment.
>
> Can you please take this to another thread of its own?
>
> (Sorry, I couldn't resist.)
>
>
```

```
From 5269281384064083548
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!nntp.club.cc.cmu.edu!
pitt.edu!egsner!news.cirr.com!sdf.lonestar.org!sdog2008
From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: #Re: Hijacking Newsgroup Threads
Date: Mon, 2 Mar 2009 18:58:36 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 404
Message-ID: <Pine.NEB.4.64.0903021856270.26935@sdf.lonestar.org>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
 <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
 <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
 <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
 <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
 <i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
 <3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
<QpLpl.36525$g63.20199@newsfe24.iad>
 <0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
 <slrngqf939.1rqr.nomail@xs7.xs4all.nl> <z0XW9BGlk6pJFwzc@g3ohx.demon.co.uk>
 <slrngqfah4.1rqr.nomail@xs7.xs4all.nl> <6UEUF5Hrz6pJFwQ7@g3ohx.demon.co.uk>
NNTP-Posting-Host: sdf.lonestar.org
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: chessie.cirr.com 1236020320 18912 192.94.73.1 (2 Mar 2009 18:58:40 GMT)
X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Mon, 2 Mar 2009 18:58:40 +0000 (UTC)
In-Reply-To: <6UEUF5Hrz6pJFwQ7@g3ohx.demon.co.uk>
Xref: g2news1.google.com rec.radio.amateur.antenna:8447
rec.radio.amateur.homebrew:1987 rec.radio.amateur.misc:3886
```

On Fri, 27 Feb 2009, Ian Jackson wrote:

> Date: Fri, 27 Feb 2009 09:05:47 +0000
> From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
> Newsgroups: rec.radio.amateur.antenna, rec.radio.amateur.homebrew,
>   rec.radio.amateur.misc
> Subject: Hijacking Newsgroup Threads
>
> In message <slrngqfah4.1rqr.nomail@xs7.xs4all.nl>, Rob <nomail@example.com>
> writes
>> Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>>> In message <slrngqf939.1rqr.nomail@xs7.xs4all.nl>, Rob
>>> <nomail@example.com> writes
>>>> Esther & Fester Bestertester <not@me.really> wrote:
>>>>>> I hope I've made my viewpoint clear.
>>>>>
>>>>> Can you please take this to another thread of its own?
>>>>
>>>> Again??? What do you want?
>>>> It has been taken to another thread and still you repeat your comment.
>>>
>>> No it hasn't. The original thread, 'Hack a DTV antenna for dual
>>> directions?' has been hijacked, and changed to 'Sharing Internet
>>> Connection'.
>>
>> So now it is a new thread "Sharing Internet Connection". That is
>> what was requested. No need to put more comments about changing thread
>> into there.
>
> Don't you absolutely hate people who hijack threads by changing the subject?
> --
> Ian
>

FYI,

There is a sociological phenomenon called "Godwin's Law"

Here is a copy.....

Subject: How to post about Nazis and get away with it - the Godwin's Law FAQ

Archive-name: usenet/legends/godwin
Posting-Frequency: monthly
Last-Modified: October 7, 2003
Version: 1.15
URL: http://www.killfile.org/faqs/godwin.faq
Maintainer: tskirvin@killfile.org (Tim Skirvin)

Godwin's Law FAQ
-or-
"How to post about Nazis and get away with it"

One of the most famous pieces of Usenet trivia out there is "if you mention Hitler or Nazis in a post, you've automatically ended whatever discussion you were taking part in". Known as Godwin's Law, this rule of Usenet has a long and sordid history on the network - and is absolutely wrong. This FAQ is an attempt to set straight as much of the history and meaning of Godwin's Law as possible, and hopefully encourage users to invoke it a bit more sparingly. Of course, knowing Usenet, it won't do an ounce of good...

[Standard Disclaimers: this document assumes you have some basic knowledge of Usenet; if you don't, go check out news.announce.newusers for a while to gain said knowledge. Misuse of the information contained within this FAQ is not the responsibility of the author (though he's pretty confused exactly how you could misuse this information). Copyright 1999-2002, Tim Skirvin, all rights reserved, <FISH><, fnord, furrfu.]

I. The Basics

1. What is Godwin's Law?

Godwin's Law is a natural law of Usenet named after Mike Godwin (godwin@eff.org) concerning Usenet "discussions". It reads, according to the Jargon File:

> As a Usenet discussion grows longer, the probability of a comparison involving Nazis or Hitler approaches one.

2. What does it mean?

It pretty much means exactly what it says - as a Usenet thread goes on, the chances of somebody or something being compared to a Nazi approach one.

3. Yes, but what does it *mean*?

Aah, now *there's* the real question.

In case your head has been buried in the sand for the last sixty years or so, the Nazis were a German political party led by Adolf Hitler that slaughtered upwards of ten million people that didn't meet their standards of "ethnic purity" and set off to conquer Europe and the world in World War II. They are generally considered the most evil group of people to live in modern times, and to compare something or someone to them is usually considered the gravest insult imaginable.

As a Usenet discussion gets longer it tends to get more heated; as more heat enters the discussion, tensions get higher and people start to insult each other over anything they can think of. Godwin's Law merely notes that, eventually, those tensions eventually cause someone to find the worst insults that come to mind - which will almost always include a Nazi comparison.

4. That still doesn't answer my question. What does it *MEAN*?

The Law is generally used on Usenet as an indicator of whether a thread has gone on too long, who's playing fair and who's just slinging mud, and who finally gets to "win" the discussion. It has, over time, become the closest thing to an impartial moderator that Usenet can get.

So, what this means in practical terms:

- If someone brings up Nazis in general conversation when it wasn't necessary or germane without it necessarily being an insult, it's probably about time for the thread to end.
- If someone brings up Nazis in general conversation when it was vaguely related but is basically being used as an insult, the speaker can be considered to be flaming and not debating.
- If someone brings up Nazis in any conversation that has been going on too long for one of the parties, it can be used as a fair excuse to end the thread and declare victory for the other side.

5. So - *WHAT DOES IT MEAN*?

Fine, fine - it means that somebody's eventually going to say something about the Nazis in any thread that lasts very long. When it happens, the thread is going to start either degenerating into a long flamewar over Nazi Germany or about Godwin's Law. Either way, the thread is effectively over, and you can safely killfile the thread and move on.

II. What does it mean?

1. Didn't we already spend the last section talking about this?

Well, yeah, but people don't seem to get the point...

2. What happens if we're actually talking about Nazis?

Then you've already invoked Godwin's Law, and the chances are that your thread isn't going to last all that much longer as a sane discussion. Them's the breaks.

That isn't to say, of course, that you can't talk about Nazis and such on Usenet - this *is* Usenet, after all, where virtually every conversation that goes on is fairly ludicrous in the first place. It's just going to take you a lot more effort to find real information out of there and to avoid getting yourself off on side-threads - which you'll eventually do regardless, but you can try to put it off.

This also applies if a thread mutates into an actual discussion of Nazis, of course.

3. What about arguing with Neo-Nazis?

Arguing with Neo-Nazis is probably the quickest path to getting Nazi invocations, because, well, they're actually accurate. Still, trying to invoke Godwin's Law near a Neo-Nazi isn't really a good idea because it's not terribly original and they'll probably get off on it anyway. Just ignore them and occasionally publish a FAQ detailing what actually happened during the Holocaust and such; arguing probably isn't going to help you.

4. How can I use Godwin's Law to my advantage?

In the proper kind of flamewar, Godwin's Law can be used as a gambit - how can you force your opponent to invoke the Law? Actually teaching these skills is tough, of course, and is best done through experience. Experience with chess and alt.flame are recommended.

5. What should I do if somebody else invokes Godwin's Law?

The obvious response is to call them on it, say "thread's over", and declare victory. This is also one of the stupidest possible responses, because it involves believing far too much in the power of a few rules that don't say exactly what you wish they said anyway. The proper response to an invocation is probably to simply followup with a message saying "Oh. I'm a Nazi? Sure. Bye" and leave, and in most cases even that much of a post is unnecessary.

6. "Hitler!" Ha! The thread is over!

Nope, doesn't work that way. Not only is it wrong to say that a thread is over when Godwin's Law is invoked anyway (Usenet threads virtually always outlive their usefulness), but long ago a corollary to the Law was proposed and accepted by Taki "Quirk" Kogama (quirk@swcp.com):

> Quirk's Exception: Intentional invocation of this so-called
> "Nazi Clause" is ineffectual.

Sorry, folks. Nice try, though.

7. Does Godwin's Law apply in the real world?

Actually, yeah, but usually discussions in Real Life end by somebody wandering off in disgust before it can be invoked.

8. Are there any topics that lead directly to Godwin Invocations?

Well, yeah. Of course. Case's Corollary to the Law states "if the subject is Heinlein or homosexuality, the probability of a Hitler/Nazi comparison being made becomes equal to one" - but that's just an old list. Abortion and gun control debates always lead to Nazi comparisons; talk with a Libertarian for more than a few hours and he'll almost certainly bring up Nazis; book-burning is pretty much considered a sub-topic of Nazism at this point. Hell, talk about anything politically related and you'll eventually get there.

If you're really bored, a fun game to play is Six Degrees of Godwin. Take a topic - any topic - and see how quickly you can relate it to Nazis using legitimate topic drift methods. For example: a discussion about computers will eventually lead to discussions of keyboards and which are best, followed by a lot of complaining about the Windows key on 104-key keyboards, leading to complaints about Microsoft, forcing the standard MS-vs-government flamewar that I'm sure you're all aware of, leading to attacks on Microsoft's "fascist" tactics by one side or another, which will force the other side to start talking about the differences between fascism, capitalism, and, of course, Nazism! The fun never stops!

Appendix A: The Many Forms of Godwin's Law

"You can tell when a USENET discussion is getting old when one of the participants drags out Hitler and the Nazis."
- Richard Sexton (http://www.vrx.net/richard/) stating what would later be known as Godwin's Law, Message-ID <21000@gryphon.COM>, 16 Oct 1989

  http://groups.google.com/groups?selm=21000%40gryphon.COM&output=gplain

"Godwin's Rule of Nazi Analogies: As a Usenet discussion grows longer, the probability of a comparison involving Nazis or Hitler approaches one."
- Mike Godwin, first article about the topic in the Google archives, Message-ID <1991Aug18.215029.19421@eff.org>, 18 Aug 1991

  http://groups.google.com/groups?selm=1991Aug18.215029.19421%40eff.org

:Godwin's Law: /prov./ [Usenet] "As a Usenet discussion grows longer, the probability of a comparison involving Nazis or Hitler approaches one." There is a tradition in many groups that, once this occurs, that thread is over, and whoever mentioned the Nazis has automatically lost whatever argument was in progress. Godwin's Law thus practically guarantees the existence of an upper bound on thread length in those groups.
- The Jargon File (http://www.ccil.org/jargon/)

Hitler, Nazis, nazis, and net.cops:

Warning: now that this FAQ has mentioned Hitler and Nazis, UseNet Rule #4 (also known as Godwin's Rule, after Mike Godwin of the EFF, sci.crypt, and comp.org.eff.talk, a sometime foe of David Sternlight (q.v.) [even though it was apparently in use, by Richard Sexton {q.v.} among others, before Mike's 1988 (?) net.advent; the "Godwin's" part seems to stem from "Rich Rosen's Rules of Net.Debate, which I don't have a copy of]) says it will be coming to an irrelevant and off-topic end soon. Just as there will always be newbies ("It's *always* September, *somewhere* on the net" - response to a 1993 wave of delphi.com postings on a.f.u), there will always be people who see the net and are repulsed because there's stuff there they don't want to see - so they set out to make sure noone else can, either. They invariably fail, because there are no net.cops to enforce any such rules on UseNet; in the course of the heated flamewar that usually follows, things escalate until either Hitler or Nazis (or both) put in an appearance, at which point the thread has officially lost all relevance. People scream at each other a bit more, then give up and go home. Bleah. "Keep your brains up top; don't be a net.cop."

This has mutated, in true UseNet fashion, to encompass *any* continuing thread; if you mention Hitler or Nazis out of the blue, the thread is sure to die irrelevantly soon (and, incidentally, you've lost the argument, whatever it was)... and every continuing thread on UseNet *must* contain such a reference sooner or later. Invoking Rule #4 deliberately in hopes of ending a thread, however, is doomed to failure (Quirk's Exception)...

UseNet Rules #n:

No firm info at the present time is available on just what the other UseNet Rules #n are. However, at a guess, they include:

--

Rule #nonumber: There are no hard-and-fast Rules on UseNet, only Guidelines, which are more or less strictly enforced (and differ) from group to group; this is why it's generally wise to read any group for a bit before ever posting to it.

Rule #0: *There* *is* *no* *C*b*l*. There *is*, however, a net-wide conspiracy designed solely to lead Dave Hayes (q.v.) to believe that there is a C*b*l.

Corollary: *There* *are* *no* *pods*.

Rule #9: It's *always* September, *somewhere* on the Net.

Dave Fischer's Extension: 1993 was The Year September Never Ended [so far, there doesn't seem to be much evidence he's wrong...]

Rule #17: Go not to UseNet for counsel, for they will say both `No' and `Yes' and `Try another newsgroup'.

Rule #2 (John Gilmore): "The Net interprets censorship as damage and routes around it."

Rule #108 (from the soc.motss FAQ): "What will happen to me if I read soc.motss?" "In general, nothing. (You may be informed or infuriated, of course; but that's a standard Usenet hazard.)"

Rule #666: Old alt groups never die. They don't fade away nicely, either.

Rule #7-B: There is no topic so thoroughly covered that noone will ever bring it up again.

Rule #90120: Applying your standards to someone else's post *will* result in a flamewar.

Rule #1: Spellling and grammer counts. So do grace, wit, and a sense of humor (the latter two are different), as well as a willingness to meet odd people, but these are lesser considerations.

Rule #x^2: FAQs are asked frequently. Get used to them.
Rule #29: no rational discourse can happen in a thread cross-posted to more than two newsgroups.
rule #6 (Eddie Saxe): don't post to misc.test unless you understand the consequences.
Rule #547 (Arne Adolfsen): When people know they're wrong they resort to ad hominems.
Rule #37 (Faisal Nameer Jawdat): Read the thread from the beginning, or else.
Rule #5 (Reimer's Reason): Nobody ever ignores what they should ignore on Usenet.
Rule $19.99 (Brad `Squid' Shapcott): The Internet *isn't* *free*. It just has an economy that makes no sense to capitalism.
Rule #3 ("Why 3?" "Because we felt like it"): For every opinion there is at least one equally loud and opposing opinion; sometimes stated as:
Rule #27 (Gary Lewandowski): "In cyberspace, *everyone* can hear you scream."
And for completeness' sake:

Rule #4: (Godwin's Rule) Any off-topic mention of Hitler or Nazis will cause the thread it is mentioned in to an irrelevant and off-topic end very soon; every thread on UseNet has a constantly-increasing probability to contain such a mention.
Quirk's Exception: Intentional invocation of this so-called "Nazi Clause" is ineffectual.
Case's Corollary: If the subject is Heinlein or homosexuality, the probability of a Hitler/Nazi comparison being made becomes equal to one.
- net.legends FAQ (http://www.killfile.org/faqs/legends.html)

Appendix B: Addendums, Commentary, and Miscellaneous

1. Bentsen's Defense

For some, there is another way around Godwin's Law:

"Not this time. I know Mike Godwin. Mike Godwin is a friend of mine. Senator, you're no Mike Godwin."

This, of course, only applies to friends of Mike Godwin. The originator of this rule, Earl Cooley III (shiva@io.com), is one of those people. If you have to ask, you don't apply. I don't apply, so don't feel bad.

Note that this was named after Senator Lloyd Bentsen's "You're no Jack Kennedy" line from the 1988 vice-presidential debates. And the original usage can be found in <3b09d2e6.79411309@news.supernews.com>:

http://groups.google.com/groups?as_umsgid=3b09d2e6.79411309@news.supernews.com

2. Godwin's Commentary

Godwin actually wrote a short article for Wired Magazine on the

Law back in 1994:

http://www.wired.com/wired/archive/2.10/godwin.if_pr.html

The article is actually more about the power and danger of memes (thought-viruses) than about Godwin's Law itself, but it's worthwhile reading for anybody who actually got this far into the FAQ.

3. Author's Note on the Holocaust

Over the years, I have received several emails regarding this FAQ regarding the Holocaust itself, either disputing the holocaust or the numbers listed in this FAQ. I'd just like to make it clear that I don't have any particular desire to debate these points; this FAQ is meant to point out and explain a quirk of human nature, not to codify the history of World War II.

4. Additional Corollaries

There have been many additional corollaries and otherwise related rules created since the net.legends FAQ codified them, and/or missed in that FAQ. Those that have been brought to the author's attention:

Stead's Law (named for Lew Stead of alt.pagan fame):
Any discussion between more than 2 Pagans will eventually come around to Christianity.
- Reported by Donal Brewich <donal@brewich.com>
- More information regarding its history would be appreciated

--
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http://www.killfile.org/faqs/godwin.faq

```
From -7690339099238224000
X-Google-Thread: fc2a5,ab42477333153d9c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2.glorb.com!news-
in-01.newsfeed.easynews.com!news-in-02.newsfeed.easynews.com!easynews!core-
easynews-01!easynews.com!en-nntp-07.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <GYgql.13366$W06.8172@flpi148.ffdc.sbc.com> <1098f503-293c-40fd-
a0c2-6abf9b9539fa@h20g2000yqn.googlegroups.com>
Subject: Re: An idea for s source for o,scope deflection amplifiers.
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
```

X-RFC2646: Format=Flowed; Original
Message-ID: <r_Wql.12633$PS5.4021@en-nntp-07.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Mon, 2 Mar 2009 12:05:41 -0800
Xref: g2news2.google.com rec.radio.amateur.homebrew:2285

"raypsi" <RBorowiak@gmail.com> wrote in message
news:1098f503-293c-40fd-a0c2-6abf9b9539fa@h20g2000yqn.googlegroups.com...
"I remember my days at RETS electronics schools we had a instructor his
name was Armstrong the cousin of the inventor of FM. In his class you
got to build a 100Mhz tube only scope, you bought all the parts from
him, nice scam, including the CRT, he made the CRT's himself from
scratch."

Doesn't sound like a scam at all unless he was seriously inflating the prices of the parts compared to what you'd normally get them for. Indeed, assuming the prices were in-line, it sounds like a great dead, since especailly for something like the CRT, he's the one warrantying it and you know exactly where the guy works. :-)

From -6187058422034913922
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad.newshosting.com!newshosting.com!post02.iad!news.dslextreme.com!not-for-mail
Date: Mon, 02 Mar 2009 13:52:23 -0800
From: dave <dave@dave.dave>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.19) Gecko/20081204 SeaMonkey/1.1.14
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: #Re: Hijacking Newsgroup Threads
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
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<i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
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<QpLpl.36525$g63.20199@newsfe24.iad>

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<0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
<slrngqf939.1rqr.nomail@xs7.xs4all.nl> <z0XW9BGlk6pJFwzc@g3ohx.demon.co.uk>
<slrngqfah4.1rqr.nomail@xs7.xs4all.nl> <6UEUF5Hrz6pJFwQ7@g3ohx.demon.co.uk>
<Pine.NEB.4.64.0903021856270.26935@sdf.lonestar.org>
In-Reply-To: <Pine.NEB.4.64.0903021856270.26935@sdf.lonestar.org>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 10
Message-ID: <49ac5518$0$31170$bd467cd0@news.dslextreme.com>
Organization: dslextreme.com
X-Complaints-To: abuse@dslextreme.com
Xref: g2news1.google.com rec.radio.amateur.antenna:8453
rec.radio.amateur.homebrew:1989 rec.radio.amateur.misc:3887

Stray Dog wrote:

>>
>
> FYI,
>
> There is a sociological phenomenon called "Godwin's Law"
>

I don't believe in Godwin.


From 6900916812310070289
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad.newshosting.com!newshosting.com!69.16.185.11.MISMATCH!
npeer01.iad.highwinds-media.com!feed-me.highwinds-media.com!
cyclone01.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf01.ams.highwinds-media.com!newsfe24.ams2.POSTED!7564ea0f!not-for-mail
Message-ID: <r5SAugF6EHrJFwwG@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: #Re: Hijacking Newsgroup Threads
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
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 <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
 <i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
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 <slrngqf939.1rqr.nomail@xs7.xs4all.nl> <z0XW9BGlk6pJFwzc@g3ohx.demon.co.uk>
 <slrngqfah4.1rqr.nomail@xs7.xs4all.nl> <6UEUF5Hrz6pJFwQ7@g3ohx.demon.co.uk>
 <Pine.NEB.4.64.0903021856270.26935@sdf.lonestar.org>
 <49ac5518$0$31170$bd467cd0@news.dslextreme.com>
Lines: 20
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.06-S (<XCaqWGP7KPTwWPCjOBBoeAZYQR>)
NNTP-Posting-Host: 80.176.138.122
X-Complaints-To: abuse@demon.net
X-Trace: newsfe24.ams2 1236037950 80.176.138.122 (Mon, 02 Mar 2009 23:52:30 UTC)
NNTP-Posting-Date: Mon, 02 Mar 2009 23:52:30 UTC
Date: Mon, 2 Mar 2009 23:52:26 +0000
Xref: g2news1.google.com rec.radio.amateur.antenna:8454
rec.radio.amateur.homebrew:1990 rec.radio.amateur.misc:3888

In message <49ac5518$0$31170$bd467cd0@news.dslextreme.com>, dave
<dave@dave.dave> writes
>Stray Dog wrote:
>
>>>
>>  FYI,
>>  There is a sociological phenomenon called "Godwin's Law"
>>
>
>I don't believe in Godwin.

To me, the fact that His Law (in one form or another) is true proves
that He exists.

In the UK, in uk.radio.amateur, after about three 'overs', all threads
get hijacked and turn into a slanging match which is invariably about
the UK amateur 'Foundation Licence' (effectively a low-grade novice
licence). This is much more important than Nazis and the like.
--
Ian



From -4660012583446926412
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!newshub.sdsu.edu!
flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!nlpi069.nbdc.sbc.com.POSTED!9b0b1a69!not-for-mail
From: Esther & Fester Bestertester <not@me.really>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C5D1E78C0196EE13B01AD9AF@news.sf.sbcglobal.net>
```

Subject: Re: #Re: Hijacking Newsgroup Threads
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Reply-To: not@me.really
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk> <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
<i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
<3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
<QpLpl.36525$g63.20199@newsfe24.iad>
<0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
<slrngqf939.1rqr.nomail@xs7.xs4all.nl> <z0XW9BGlk6pJFwzc@g3ohx.demon.co.uk>
<slrngqfah4.1rqr.nomail@xs7.xs4all.nl> <6UEUF5Hrz6pJFwQ7@g3ohx.demon.co.uk>
<Pine.NEB.4.64.0903021856270.26935@sdf.lonestar.org>
Lines: 3
NNTP-Posting-Host: 99.189.171.35
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi069.nbdc.sbc.com 1236051850 ST000 99.189.171.35 (Mon, 02 Mar 2009 22:44:10 EST)
NNTP-Posting-Date: Mon, 02 Mar 2009 22:44:10 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
[[PAPDCAOHUQB_LX^ZHB^VTDEB\@PD\MNPWZKB]MPXHBTWICYFWUQBKZQLYJX_ITFD_KFVLUN[DOM_A_NSYNWPFWNS[XV\I]PZ@BQ[@CDQDPCL^FKCBIPC@KLGEZEFNMDYMKHRL_YYYGDSSODXYN@[\BK[LVTWI@AXGQCOA_SAH@TPD^\AL\RLGRFWEARBM
Date: Mon, 2 Mar 2009 19:44:12 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:8459
rec.radio.amateur.homebrew:1991 rec.radio.amateur.misc:3889

Is there a corollary of Godwin Law where the original thread devolves into a discussion of Godwin's Law?

From -2836647218633675715
X-Google-Thread: fcc6e,d7d337db35f23326,start
X-Google-Thread: 11480d,d7d337db35f23326,start
X-Google-Thread: 108122,d7d337db35f23326,start
X-Google-Thread: fc2a5,d7d337db35f23326,start
X-Google-Thread: 107ada,d7d337db35f23326,start
X-Google-Thread: 10bf43,d7d337db35f23326,start
X-Google-Thread: 10e8ad,d7d337db35f23326,start
X-Google-Thread: 3a471f,d7d337db35f23326,start
X-Google-Attributes:
gidfcc6e,gid11480d,gid108122,gidfc2a5,gid107ada,gid10bf43,gid10e8ad,gid3a471f,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!

```
198.186.194.249.MISMATCH!news-out.readnews.com!transit3.readnews.com!panix!
rram.panix.com!robomod!not-for-mail
From: rram@panix.com (rec.radio.amateur.moderated Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amat
eur.space,rec.radio.amateur.moderated
Subject: [ADMIN,META] Allow crossposting to rec.radio.amateur.moderated?
Followup-To: poster
Date: Tue, 3 Mar 2009 09:22:16 EST
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 190
Approved: RRAM Approval Key <rram-approval-key@panix.com>
Message-ID: <gojeci$m74$1@reader1.panix.com>
Reply-To: rec-radio-amateur-moderated-request@panix.com
(rec.radio.amateur.moderated Admin)
NNTP-Posting-Host: panix1.panix.com
X-Trace: reader1.panix.com 1236090134 24881 166.84.1.1 (3 Mar 2009 14:22:14 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 3 Mar 2009 14:22:14 +0000 (UTC)
X-RRAM-Policy: http://www.panix.com/~rram/usenet/rram/index.html
X-RRAM-Info-1: Send submissions to             rec-radio-amateur-
moderated@panix.com
X-RRAM-Info-2: Send technical complaints to    rec-radio-amateur-moderated-
request@panix.com
X-RRAM-Info-3: Send complaints about policy to rec-radio-amateur-moderated-
request@panix.com
X-RRAM-Info-4: GnuPG 1.4.5 Public Key at http://www.panix.com/~rram/gpg.html
X-Comment-1: The moderators do not necessarily agree or disagree with this
article.
X-Comment-2: Moderators do not verify the accuracy of posted information.
X-Comment-3: Acceptance does not convey approval of any external references.
X-Robomod: STUMP, ichudov@algebra.com (Igor Chudov), C++/Perl/Unix Consulting
X-Moderation-1: Hassle-Free commercial hosting of moderation sites available
X-Moderation-2: See http://www.algebra.com/~ichudov/stump
Old-NNTP-Posting-Host: panix2.panix.com
Old-X-Complaints-To: abuse@panix.com
Old-NNTP-Posting-Date: Tue, 3 Mar 2009 14:21:06 +0000 (UTC)
User-Agent: nn/6.7.3
X-Auth: PGPMoose V2.0 PGP rec.radio.amateur.moderated
 iJwEAQECAAYFAkmtPRgACgkQSO8RITXCfvsqawP6A17K4vQTN1WcmyH33GYFlYpz
 oliF+zVQUJ3gKBpEnAKbvUcfNm5ntO9hhCk1d6eiI7Iu9CwsSMwmkFN0azdbzudR
 4ZCsAlkmJ5O35zeE2jNvE+uoJYFHTjVxnsHLKsTVVBLAs1bNT1xMfWOEhawlAUGZ
 WnNgKz5TaViRJKL4u0k=
 =iVUy
Xref: g2news1.google.com rec.radio.amateur.antenna:8464 rec.radio.amateur.dx:280
rec.radio.amateur.equipment:1165 rec.radio.amateur.homebrew:1992
rec.radio.amateur.misc:3890 rec.radio.amateur.policy:22546
rec.radio.amateur.space:170 rec.radio.amateur.moderated:775
```

(Followups directed to poster by default. If followup to newsgroups is desired, edit your headers on followup to drop rec.radio.amateur.moderated from the Newsgroups line, else your article will be rejected.)

The rec.radio.amateur.moderated newsgroup enters its 3rd year of operation this month. Since its creation in February of 2007, we have approved nearly 3,000 articles about amateur radio and closely related subjects. We would like to thank our readers and posters for their quality contributions to our newsgroup.

When we first started out, consistent with our newsgroup's Charter and Posting Guidelines:

http://www.panix.com/~rram/usenet/rram/

we allowed discussion threads to be posted to our newsgroup only. Our moderation software is programmed to automatically reject any crossposts. The one exception has been periodic information postings that are crossposted to rec.radio.info, rec.answers, and/or news.answers.

Some moderated newsgroups, such as those in the comp.lang.perl.* and misc.kids.* hierarchies, started accepting crosspostings to appropriate unmoderated newsgroups after a suitable waiting period from their initial creation. Now that our newsgroup is well-established and carried at most major sites, we would like to implement this customary followup and allow some crossposting. We would propose to allow simultaneous crossposting (i.e., one article, with all newsgroups specified at once on the Newsgroups line in the headers) to rec.radio.amateur.moderated and one other unmoderated newsgroup in the rec.radio.amateur.*, alt.radio.amateur.*, and alt.ham-radio.* hierarchies only.

Pros:

- Allows the moderated and unmoderated newsgroups to share discussion threads of common interest, without propagating more than one set of articles to news, or showing them more than once in a newsreader. Presently, threads of common interest have to run in parallel, with different sets of followups, and requiring readers to have to follow two threads, possibly with duplicate articles, in different newsgroups. We have seen multiple examples of this happening in the amateur-radio-related newsgroups over the past 2 years.

- Provides the default action of submitting articles and followups to moderator review, as news servers will forward to us for approval any article that contains rec.radio.amateur.moderated on the Newsgroups line. This allows the moderated newsgroup crossposting to serve as a "guardian" or "sentinel" to discourage threads from getting hijacked into running off-topic or into personal abuse. This may also encourage posters to use the underutilized rec.radio.amateur.misc or .policy newsgroups as crossposting targets for articles that might otherwise be posted only to .moderated.

- Readers of the unmoderated newsgroups will enjoy high-quality, on-topic, discussion threads that would otherwise require subscribing to and reading a moderated newsgroup. Readers of the moderated newsgroup will enjoy high-quality, on-topic, discussion threads that would otherwise require subscribing to and reading other unmoderated newsgroups. Those unmoderated newsgroups may contain articles of widely varying degrees of quality and topic relevance.

- Participation in this crossposting scheme is completely voluntary. Posters of initial articles in threads will make the voluntary choice to add rec.radio.amateur.moderated and one other unmoderated newsgroup to the Newsgroups line when posting. Those following up to these crossposted threads will make a voluntary choice whether to keep rec.radio.amateur.moderated or any other newsgroup on the Newsgroups line, or remove them. Followups may be directed by default to any subset of the newsgroups on the Newsgroups line (or via E-mail to "poster") by specifying them on an appropriate Followup-To line. In short, you control what you post, where you post it, and what default destinations you want for any followups. This proposed crossposting scheme does not change any of these long-standing features of Usenet and newsreader software.

Cons:

- This will subject all such simultaneously crossposted articles to moderator review by us. If they do not meet the Charter and Posting Guidelines of rec.radio.amateur.moderated, they will be rejected. We will attempt to work with submitters to let them know what is happening, and how their articles can be fixed for eventual approval. However, rejected articles that were submitted anonymously without a traceable/derivable E-mail address or identity will have to be dropped silently without feedback to the unreachable submitter.

- Moderator review will introduce some posting delay. However, it has been our experience over the last 2 years that with our large moderation team distributed across many time zones, and the automation provided by our moderation software, we can turn submissions around relatively quickly, often within an hour.

- Many newsreaders do not give clear feedback to the user what newsgroups in which a given article appears, nor to what newsgroups a followup to that article will be sent by default. We expect to initially have to handle a few confused, possibly angry, submitters who will insist that they did not intend to post to a moderated newsgroup. We are willing to provide the necessary polite feedback and user education to them to allow this crossposting scheme to work effectively. This will help ensure that the scheme is only used by those who are reasonably aware of the various pros and cons. We hope that this problem will diminish with time and greater user awareness.

- Not all newsgroups, especially those in the alt.* hierarchy, are carried at all sites. Users may find themselves following up by default to newsgroups that do not exist on their local news server, possibly resulting in article rejection from their server. Those users would have to edit their Newsgroups line for successful resubmission. We will work with users to get appropriate newsgroups added to their local servers, as well as with Panix to get those newsgroups added to Panix's server. However, as with default followups described in the previous paragraph, we expect to have to go through an initial period of user and news service provider education and polite feedback. We hope that this problem also will diminish with time and greater user awareness.

We propose to enforce this scheme in our moderation software as follows:

- Submissions simultaneously crossposted to more than 2 newsgroups will be automatically rejected with a rejection form letter (same as what happens now to submissions that are posted to more than 1 newsgroup).

- Submissions that contain newsgroups on the Newsgroups line other than approved newsgroups in the rec.radio.amateur.*, alt.radio.amateur.*, or alt.ham-radio.* hierarchies will be automatically rejected with a rejection form letter.

  Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

  Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

  http://www.faqs.org/faqs/alt-creation-guide/

  We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

To help publicize this new editorial policy, we will update our Posting Guidelines, which are posted to the moderated newsgroup on the 15th of each month. Changes to our Posting Guidelines are indicated by an updated date in the Revision: auxiliary header at the top of the body, as well as "change bars" ('|') after each modified line of text. We will also add a short announcement, posted on the 1st of each month and cross-posted to the unmoderated newsgroups, restating this new editorial policy, and encouraging crossposted submissions.

Since this is a change to our newsgroup's editorial policies, and with some impact to the readers and posters of the unmoderated newsgroups, we would like to solicit 30 days of direct feedback and/or public discussion regarding this proposed change. For example, we would be interested to know if allowing crossposting to one other unmoderated newsgroup is enough, or if two would be preferable. We feel that more than two additional crossposted newsgroups greatly increases the probability of misconduct or accidental misposting that may result in article rejection by us. Also, should this scheme be opened up to uk.radio.amateur and aus.radio.amateur.* as well? You may send us E-mail directly to our administrative contact address below, which is the default Followup-To/Reply-To for this article. You may also discuss this publicly on the unmoderated newsgroups. In fact, we cannot stop you from doing so. We will make every reasonable effort to incorporate any feedback and suggestions. If we decide to implement this proposal, we will make a public announcement shortly after the end of the 30-day discussion period.

(Followups directed to poster by default. If followup to newsgroups is desired, edit your headers on followup to drop rec.radio.amateur.moderated from the Newsgroups line, else your article will be rejected.)

--
rec.radio.amateur.moderated Admin
rec-radio-amateur-moderated-request@panix.com

From -9186527216483038424
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
gnilink.net!nx01.iad.newshosting.com!newshosting.com!newsfeed.icl.net!
newsfeed.fjserv.net!newsfeed.freenet.de!195.208.113.1.MISMATCH!goblin3!goblin1!
goblin.stu.neva.ru!egsner!news.cirr.com!sdf.lonestar.org!sdog2008
From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: # Re: #Re: Hijacking Newsgroup Threads
Date: Tue, 3 Mar 2009 15:53:46 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 62
Message-ID: <Pine.NEB.4.64.0903031540110.12210@sdf.lonestar.org>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
 <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
 <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>

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 <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
 <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
 <i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
 <3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
<QpLpl.36525$g63.20199@newsfe24.iad>
 <0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
 <slrngqf939.1rqr.nomail@xs7.xs4all.nl> <z0XW9BGlk6pJFwzc@g3ohx.demon.co.uk>
 <slrngqfah4.1rqr.nomail@xs7.xs4all.nl> <6UEUF5Hrz6pJFwQ7@g3ohx.demon.co.uk>
 <Pine.NEB.4.64.0903021856270.26935@sdf.lonestar.org>
 <0001HW.C5D1E78C0196EE13B01AD9AF@news.sf.sbcglobal.net>
NNTP-Posting-Host: sdf.lonestar.org
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: chessie.cirr.com 1236095630 2381 192.94.73.1 (3 Mar 2009 15:53:50 GMT)
X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Tue, 3 Mar 2009 15:53:50 +0000 (UTC)
In-Reply-To: <0001HW.C5D1E78C0196EE13B01AD9AF@news.sf.sbcglobal.net>
Xref: g2news1.google.com rec.radio.amateur.antenna:8465
rec.radio.amateur.homebrew:1993 rec.radio.amateur.misc:3891
```

On Mon, 2 Mar 2009, Esther & Fester Bestertester wrote:

> Date: Mon, 2 Mar 2009 19:44:12 -0800
> From: Esther & Fester Bestertester <not@me.really>
> Newsgroups: rec.radio.amateur.antenna, rec.radio.amateur.homebrew,
>   rec.radio.amateur.misc
> Subject: Re: #Re: Hijacking Newsgroup Threads
>
> Is there a corollary of Godwin Law where the original thread devolves into a
> discussion of Godwin's Law?

I am not aware of this, but the chances are surely infinitesimal.

A related (psychological) phenomenon is: "the elephant in the livingroom" which is a tag label for people who are unaware of their own problems even though everyone around them can see it.

My own pet notions about newsgroup threads are as follows:

1. It is a fact that dogs, when out being walked by their owners (or dogs wandering on their own), go around and sniff fire hydrants and tree trunks for dog piss residue. Because of their olfactory sensitivity, dogs can identify other dogs on piss smell alone. So, its a form of communication. After the sniff, the dog pisses on top of the prior layer of piss to tell the next dog (maybe the same one as before) something like "Hi Joe, this is Pete", etc., and thus makes dog socializing possible (as for millions of years), and now, humans can do the same on newsgroup threads (read the post, reply to the post, etc., thus giving rize to terms like "pissing contest" etc).

2. There is a certain resemblance, to a certain degree, to the bar scene

in the movie "Star Wars"

3. I've also had the observations that: i) no matter what you say, and no matter what your intentions, there will always be at least one person out there who will be unhappy with what you say, ii) they will also completely misunderstand what you say, and iii) no matter what you do to try to explain it, it will still be misunderstood. In my retirement years I've been reading a lot of history; kinda makes it obvious why we've had thousands of years of wars, destruction, death, pain. Hmmmmmm? Is there a lesson there? On newsgroups, thus, we get flamewars as a substitute.

From 8083461272331510765
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!
198.186.190.251.MISMATCH!transit4.readnews.com!news-out.readnews.com!
transit3.readnews.com!panix!wb8foz
From: David Lesher <wb8foz@panix.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Date: Tue, 3 Mar 2009 19:43:14 +0000 (UTC)
Organization: NRK Clinic for habitual NetNews Abusers - Beltway Annex
Lines: 21
Message-ID: <gok18h$6b1$2@reader1.panix.com>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
<gnsn2a02c53@news2.newsguy.com> <lmlol.19722$g63.6848@newsfe24.iad>
<0001HW.C5C7B170013DD1A8B01AD9AF@news.sf.sbcglobal.net>

```
<v6udnRjJ9fLYEj_UnZ2dnUVZ_rrinZ2d@bright.net>
<G42dnR3iQYKeCT_UnZ2dnUVZ8vCdnZ2d@pipex.net> <rlQAJ4B9CqoJFw5Z@g3ohx.demon.co.uk>
<0001HW.C5C813DA0154E27FB01AD9AF@news.sf.sbcglobal.net>
NNTP-Posting-Host: panix5.panix.com
X-Trace: reader1.panix.com 1236109394 6497 166.84.1.5 (3 Mar 2009 19:43:14 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 3 Mar 2009 19:43:14 +0000 (UTC)
User-Agent: nn/6.7.3
Xref: g2news2.google.com rec.radio.amateur.antenna:10246
rec.radio.amateur.homebrew:2291 rec.radio.amateur.misc:4147

Esther & Fester Bestertester <not@me.really> writes:

>> However, you are far, far better off with a separate feeder and a 2-way
>> A/B switch. They are only a few dollars each.

>Better in the sense of being there to throw the switch, maybe. But I've got a
>programmable-event DTV converter box which allows me to record shows
>automatically. The antenna set-up needs to be automated.

Two friends both bought a $125 dual DTV RX box; its output is TCP/IP and the
control input a web browser.

One antenna goes each way....




--
A host is a host from coast to coast................wb8foz@nrk.com
& no one will talk to a host that's close........[v].(301) 56-LINUX
Unless the host (that isn't close).........................pob 1433
is busy, hung or dead....................................20915-1433



From 4863868621897292921
X-Google-Thread: 107ada,c0bc76570b6c0280,start
X-Google-Thread: 108122,c0bc76570b6c0280,start
X-Google-Thread: fc2a5,c0bc76570b6c0280,start
X-Google-Attributes: gid107ada,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o8g2000pre.googlegroups.com!not-for-
mail
From: "dave.harper" <dave.harper@gmail.com>
Newsgroups:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Peak-to-peak voltage for mic input?
Date: Tue, 3 Mar 2009 14:19:14 -0800 (PST)
Organization: http://groups.google.com
Lines: 9
Message-ID: <dde847a2-7e8e-41f0-ae2f-561089232dcf@o8g2000pre.googlegroups.com>
NNTP-Posting-Host: 128.158.1.161
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
```

```
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1236118754 6840 127.0.0.1 (3 Mar 2009 22:19:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 3 Mar 2009 22:19:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o8g2000pre.googlegroups.com; posting-host=128.158.1.161;
     posting-account=rHEQaggAAAAFTscVchKefpnjROFHTWH8
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.4)
     Gecko/2008102920 Firefox/3.0.3,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.misc:3894
rec.radio.amateur.equipment:1166 rec.radio.amateur.homebrew:1995
```

I've made a digital modem and am trying to figure out how much I need to reduce the modem's audio output before piping the signal into an IC-V8. I want to make sure the voltage is high enough to RX well, but not so high that the signal is clipped of the IC-V8 is damaged. Anyone know what the typical peak-to-peak voltage is for a standard mic input?

Thanks in advance for any advice!
Dave

```
From 1440303390706680672
X-Google-Thread: 107ada,c0bc76570b6c0280
X-Google-Thread: 108122,c0bc76570b6c0280
X-Google-Thread: fc2a5,c0bc76570b6c0280
X-Google-Attributes: gid107ada,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 03 Mar 2009 16:54:55 -0600
Date: Tue, 03 Mar 2009 22:54:53 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Peak-to-peak voltage for mic input?
References: <dde847a2-7e8e-41f0-ae2f-561089232dcf@o8g2000pre.googlegroups.com>
In-Reply-To: <dde847a2-7e8e-41f0-ae2f-561089232dcf@o8g2000pre.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <v8ednVDGKJiiKDDUnZ2dnUVZ8gCWnZ2d@pipex.net>
Lines: 19
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.71.168
X-Trace: sv3-ZjZyDqQ4RaZEeuBb77hvQt9+6mqeWcs7nK6/
UZ7Cj3uzLEgP1worfnlvpJHPpUPyFolAmg+CZup8dVW!/CFdmElUwXlKNKADwl8QKKv5UR/
a6UGbrau5Q7F3OPE6lJdxeyMtzT/DPMRW4WzTs2rXk40wUzQt!Q1YF6L3cbANbhkmCe9xHM5a9hA==
X-Complaints-To: abuse@dsl.pipex.net
```

```
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.misc:4150
rec.radio.amateur.equipment:1381 rec.radio.amateur.homebrew:2293
```

dave.harper wrote:

> I've made a digital modem and am trying to figure out how much I need
> to reduce the modem's audio output before piping the signal into an IC-
> V8. I want to make sure the voltage is high enough to RX well, but
> not so high that the signal is clipped of the IC-V8 is damaged.
> Anyone know what the typical peak-to-peak voltage is for a standard
> mic input?
>
> Thanks in advance for any advice!

========================

Assuming that the modem has an adjustable output , I would suggest you
hook it up to the radio and ,starting at zero input ,see at what mike
input level you get an output by listening to a receiver.
If the radio has its own mike being an electret type (possibly with an
additional built-in pre-amplifier) the mike input signal will highly
likely be in the 50 - 300 mV range .

Frank   GM0CSZ / KN6WH

```
From -8585267490071537445
X-Google-Thread: fc2a5,c8bd9814774d0c5b,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y33g2000prg.googlegroups.com!not-for-
mail
From: Ammankumar <s.ammankumar@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Modulation Techniques for MODEM with 128Kbps at 100Khz
Followup-To: rec.radio.amateur.homebrew
Date: Tue, 3 Mar 2009 20:35:53 -0800 (PST)
Organization: http://groups.google.com
Lines: 12
Message-ID: <a3d872fe-4125-409b-b1df-172524dbee31@y33g2000prg.googlegroups.com>
NNTP-Posting-Host: 125.18.18.11
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1236141353 13844 127.0.0.1 (4 Mar 2009 04:35:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 4 Mar 2009 04:35:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y33g2000prg.googlegroups.com; posting-host=125.18.18.11;
     posting-account=G-Ju7QoAAAAp4ss-uQGGjZoVEqFpWNUK
```

```
User-Agent: G2/1.0
X-HTTP-Via: 1.1 BLRSECPRX
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
     AppleWebKit/525.13 (KHTML, like Gecko) Chrome/0.2.149.29 Safari/
525.13,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1997

Hi  All,

 1) I  want to implement MODEM with 128Kbps at 100Khz  with high
doppler shift channel. Which modulation technique would be suitable .
Whether I can go with OFDM or SC-FDMA?    Any suggestions

 2) Is it possible to simulate  128Kbps with Matlab



Thanks & Regards,
Ammankumar.S



From 922252640627121572
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!newshub.sdsu.edu!
flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!nlpi065.nbdc.sbc.com.POSTED!9b0b1a69!not-for-mail
From: Esther & Fester Bestertester <not@me.really>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C5D37ECD01F660E2B01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Hack a DTV antenna for dual directions?
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Reply-To: not@me.really
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
<gnsn2a02c53@news2.newsguy.com> <lmlol.19722$g63.6848@newsfe24.iad>
<0001HW.C5C7B170013DD1A8B01AD9AF@news.sf.sbcglobal.net>
<v6udnRjJ9fLYEj_UnZ2dnUVZ_rrinZ2d@bright.net>
<G42dnR3iQYKeCT_UnZ2dnUVZ8vCdnZ2d@pipex.net> <rlQAJ4B9CqoJFw5Z@g3ohx.demon.co.uk>
<0001HW.C5C813DA0154E27FB01AD9AF@news.sf.sbcglobal.net>
<gok18h$6b1$2@reader1.panix.com>
Lines: 7
NNTP-Posting-Host: 99.189.171.35
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi065.nbdc.sbc.com 1236156109 ST000 99.189.171.35 (Wed, 04 Mar 2009
03:41:49 EST)
NNTP-Posting-Date: Wed, 04 Mar 2009 03:41:49 EST
```

```
Organization: at&t http://my.att.net/
X-UserInfo1:
TSU[@I_AOHUQB_LX^ZHB^VTDEB\@PD\MNPWZKB]MPXHJUZ]CDVW[AKK[J\]^HVKHG^EWZHBLO^[\NH_AZF
WGN^\DHNVMX_DHHX[FSQKBOTS@@BP^]C@RHS_AGDDC[AJM_T[GZNRNZAY]GNCPBDYKOLK^_CZFWPGHZIXW
@C[AFKBBQS@E@DAZ]VDFUNTQQ]FN
Date: Wed, 4 Mar 2009 00:41:49 -0800
Xref: g2news2.google.com rec.radio.amateur.antenna:10254
rec.radio.amateur.homebrew:2295 rec.radio.amateur.misc:4151

> Two friends both bought a $125 dual DTV RX box; its output is TCP/IP and the
> control input a web browser.

Would that be:

<http://www.silicondust.com/products/hdhomerun_atsc> ?




From -7363354023349384669
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!
198.186.190.251.MISMATCH!news-out.readnews.com!transit4.readnews.com!panix!wb8foz
From: David Lesher <wb8foz@panix.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Date: Wed, 4 Mar 2009 19:23:26 +0000 (UTC)
Organization: NRK Clinic for habitual NetNews Abusers - Beltway Annex
Lines: 16
Message-ID: <gomkfe$aeb$5@reader1.panix.com>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
<gnsn2a02c53@news2.newsguy.com> <lmlol.19722$g63.6848@newsfe24.iad>
<0001HW.C5C7B170013DD1A8B01AD9AF@news.sf.sbcglobal.net>
<v6udnRjJ9fLYEj_UnZ2dnUVZ_rrinZ2d@bright.net>
<G42dnR3iQYKeCT_UnZ2dnUVZ8vCdnZ2d@pipex.net> <rlQAJ4B9CqoJFw5Z@g3ohx.demon.co.uk>
<0001HW.C5C813DA0154E27FB01AD9AF@news.sf.sbcglobal.net>
<gok18h$6b1$2@reader1.panix.com>
<0001HW.C5D37ECD01F660E2B01AD9AF@news.sf.sbcglobal.net>
NNTP-Posting-Host: panix5.panix.com
X-Trace: reader1.panix.com 1236194606 10699 166.84.1.5 (4 Mar 2009 19:23:26 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 4 Mar 2009 19:23:26 +0000 (UTC)
User-Agent: nn/6.7.3
Xref: g2news1.google.com rec.radio.amateur.antenna:8504
rec.radio.amateur.homebrew:1999 rec.radio.amateur.misc:3898

Esther & Fester Bestertester <not@me.really> writes:
```

>> Two friends both bought a $125 dual DTV RX box; its output is TCP/IP and the
>> control input a web browser.

>Would that be:

><http://www.silicondust.com/products/hdhomerun_atsc> ?

That looks like it but I'd have to ask to be sure...

--
A host is a host from coast to coast................wb8foz@nrk.com
& no one will talk to a host that's close........[v].(301) 56-LINUX
Unless the host (that isn't close).........................pob 1433
is busy, hung or dead....................................20915-1433

From 7708056895578321034
X-Google-Thread: fc2a5,4a98662a17cf2ca7,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i20g2000prf.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HV SMPS
Date: Wed, 4 Mar 2009 16:20:17 -0800 (PST)
Organization: http://groups.google.com
Lines: 12
Message-ID: <ac16b7df-daba-421e-84df-5b33898b0ddc@i20g2000prf.googlegroups.com>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1236212417 11810 127.0.0.1 (5 Mar 2009 00:20:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 5 Mar 2009 00:20:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i20g2000prf.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2000

Ive been playing around with some old UPSs that are the switch mode
type, the ones without the big iron transformers. I m not sure if I
have a handle on how they work or not but it seems very similar to a
Class D amplifier amplifiying a 60HZ input, well sort of. It seems
like they dont actually input a 60Hz signal rather they just go
directly from digital by generating the pulse width modulated
waveforms with a computer. I was thinking that a transformer might be
placed before the output low pass filter to step up the voltage for
tube circuits, maybe even a TX PA. No doubt for this to have any merit

the LPF would have to be redsigned.

Jimmie

From -7643959082251169065
X-Google-Thread: fcc6e,58fd8713c4063803,start
X-Google-Thread: 11480d,58fd8713c4063803,start
X-Google-Thread: 108122,58fd8713c4063803,start
X-Google-Thread: fc2a5,58fd8713c4063803,start
X-Google-Thread: 107ada,58fd8713c4063803,start
X-Google-Thread: 10bf43,58fd8713c4063803,start
X-Google-Thread: 10b9c8,58fd8713c4063803,start
X-Google-Attributes:
gidfcc6e,gid11480d,gid108122,gidfc2a5,gid107ada,gid10bf43,gid10b9c8,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1233990300@panix.com>
Followup-To: poster
Date: 7 Mar 2009 02:05:02 -0500
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 09 Apr 2009 03:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1236409501@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1236409502 17435 166.84.1.2 (7 Mar 2009 07:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 7 Mar 2009 07:05:02 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:8560 rec.radio.amateur.dx:288
rec.radio.amateur.equipment:1175 rec.radio.amateur.homebrew:2001
rec.radio.amateur.misc:3901 rec.radio.amateur.policy:22556 rec.radio.info:542

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

```
 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month
```

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

```
From 2546238125865466931
X-Google-Thread: fc2a5,4a98662a17cf2ca7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news2.google.com!postnews.google.com!
e5g2000vbe.googlegroups.com!not-for-mail
From: jgboyles@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HV SMPS
Date: Sun, 8 Mar 2009 16:32:38 -0700 (PDT)
Organization: http://groups.google.com
Lines: 39
Message-ID: <01290be1-9634-446f-8158-a2902a00890e@e5g2000vbe.googlegroups.com>
References: <ac16b7df-daba-421e-84df-5b33898b0ddc@i20g2000prf.googlegroups.com>
NNTP-Posting-Host: 205.188.117.19
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1236555158 15520 127.0.0.1 (8 Mar 2009 23:32:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 8 Mar 2009 23:32:38 +0000 (UTC)
```

```
Complaints-To: groups-abuse@google.com
Injection-Info: e5g2000vbe.googlegroups.com; posting-host=205.188.117.19;
     posting-account=EDccDAkAAAABP46fNoIwHp5AsVAkR7WJ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
     GTB5; SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506;
     InfoPath.2),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.2 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-dtc-td06.proxy.aol.com[CDBC7066] (Prism/1.2.1), HTTP/1.1
     cache-dtc-ae15.proxy.aol.com[CDBC7513] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:2002
```

On Mar 4, 7:20=EF=BF=BDpm, JIMMIE <jimmi...@gmail.com> wrote:

> Ive been playing around with some old UPSs that =EF=BF=BDare the switch m=
> ode
> type, the ones =EF=BF=BDwithout the big iron transformers. I m not sure i=
> f I
> have a handle on how they work or not but it seems very similar to =EF=BF=
> =BDa
> Class D amplifier amplifiying a 60HZ input, well sort of. It seems
> like they dont actually input a 60Hz signal rather they just go
> directly from digital by generating the pulse width modulated
> waveforms with a computer. I was thinking that a transformer might be
> placed before the output low pass filter to step up the voltage for
> tube circuits, maybe even a TX PA. No doubt for this to have any merit
> the LPF would have to be redsigned.
>
> Jimmie

There are a number of different topologies. One is to convert the 120VAC to 167VDC and then chop it up, usually >20khz and feed that to transformers to convert to the desired voltages, and then rectify and filter it once again to get the DC outputs.

The utility of a SMPS is the efficiency, and the light wieght. Efficient because it operates class D and light because the magnetics at high frequencies are much lighter than 60hz.

The downside of SMPS is the electronics are rather complex, and the magnetics are hard to (for me) design.

I don't see any reason you could not modify a SMPS to get a couple KV for Tube operation. Seems I remember someone advertising a SMPS capabible of KV output, but I can't put my hands on it. Keep in mind that a SMPS will tear up you receiver all up and down the bands unless it is very well designed to eliminate noise.

I use a commercial 50VDC 22AMP SMPS to run my 600 watt solid state amp.

73 Gary N4AST

```
From -9097120495086910994
X-Google-Thread: fc2a5,4a98662a17cf2ca7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!c11g2000yqj.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HV SMPS
Date: Sun, 8 Mar 2009 18:23:27 -0700 (PDT)
Organization: http://groups.google.com
Lines: 44
Message-ID: <ca5ea42e-e065-4230-8509-979166654a39@c11g2000yqj.googlegroups.com>
References: <ac16b7df-daba-421e-84df-5b33898b0ddc@i20g2000prf.googlegroups.com>
     <01290be1-9634-446f-8158-a2902a00890e@e5g2000vbe.googlegroups.com>
NNTP-Posting-Host: 165.254.211.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1236561807 4357 127.0.0.1 (9 Mar 2009 01:23:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 9 Mar 2009 01:23:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c11g2000yqj.googlegroups.com; posting-host=165.254.211.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2300

On Mar 8, 7:32=A0pm, jgboy...@aol.com wrote:
> On Mar 4, 7:20 pm, JIMMIE <jimmi...@gmail.com> wrote:
>
> > Ive been playing around with some old UPSs that are the switch mode
> > type, the ones without the big iron transformers. I m not sure if I
> > have a handle on how they work or not but it seems very similar to a
> > Class D amplifier amplifiying a 60HZ input, well sort of. It seems
> > like they dont actually input a 60Hz signal rather they just go
> > directly from digital by generating the pulse width modulated
> > waveforms with a computer. I was thinking that a transformer might be
> > placed before the output low pass filter to step up the voltage for
> > tube circuits, maybe even a TX PA. No doubt for this to have any merit
> > the LPF would have to be redsigned.
>
> > Jimmie
>
> There are a number of different topologies. =A0One is to convert the
> 120VAC to 167VDC and then chop it up, usually >20khz and feed that to
> transformers to convert to the desired voltages, and then rectify and
> filter it once again to get the DC outputs.
>
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> Efficient because it operates class D and light because the magnetics
```

> at high frequencies are much lighter than 60hz.
>
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>
> I don't see any reason you could not modify a SMPS to get a couple KV
> for Tube operation. =A0Seems I remember someone advertising a SMPS
> capabible of KV output, but I can't put my hands on it. =A0Keep in mind
> that a SMPS will tear up you receiver all up and down the bands unless
> it is very well designed to eliminate noise.
>
> I use a commercial 50VDC 22AMP SMPS to run my 600 watt solid state
> amp.
>
> 73 Gary N4AST

Gary I have likewise used a UPS for a DC power supply by taking the
voltage of from across the batteries. I briefly had a similar amp that
I was repairing for a friend and thats the way I powered it.

Jimmie

From -1927886426874713016
X-Google-Thread: fc2a5,4a98662a17cf2ca7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v15g2000yqn.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HV SMPS
Date: Mon, 9 Mar 2009 20:02:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 63
Message-ID: <f756def7-cd91-410d-9b66-0a9c8cc6188c@v15g2000yqn.googlegroups.com>
References: <ac16b7df-daba-421e-84df-5b33898b0ddc@i20g2000prf.googlegroups.com>
     <01290be1-9634-446f-8158-a2902a00890e@e5g2000vbe.googlegroups.com>
     <ca5ea42e-e065-4230-8509-979166654a39@c11g2000yqj.googlegroups.com>
NNTP-Posting-Host: 76.232.148.162
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1236654149 9512 127.0.0.1 (10 Mar 2009 03:02:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 10 Mar 2009 03:02:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v15g2000yqn.googlegroups.com; posting-host=76.232.148.162;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.17)
     Gecko/20080829 Firefox/2.0.0.17,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2301

On Mar 8, 9:23 pm, JIMMIE <jimmi...@gmail.com> wrote:
> On Mar 8, 7:32 pm, jgboy...@aol.com wrote:
>
>
>
> > On Mar 4, 7:20 pm, JIMMIE <jimmi...@gmail.com> wrote:
>
> > > Ive been playing around with some old UPSs that are the switch mode
> > > type, the ones without the big iron transformers. I m not sure if I
> > > have a handle on how they work or not but it seems very similar to a
> > > Class D amplifier amplifiying a 60HZ input, well sort of. It seems
> > > like they dont actually input a 60Hz signal rather they just go
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> > > tube circuits, maybe even a TX PA. No doubt for this to have any merit
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> > There are a number of different topologies. One is to convert the
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> > transformers to convert to the desired voltages, and then rectify and
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> > capabible of KV output, but I can't put my hands on it. Keep in mind
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73 OM
n8zu

```
From 5664072787516688849
X-Google-Thread: fc2a5,4a98662a17cf2ca7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!v19g2000yqn.googlegroups.com!not-for-
mail
From: jgboyles@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HV SMPS
Date: Tue, 10 Mar 2009 11:36:15 -0700 (PDT)
Organization: http://groups.google.com
Lines: 96
Message-ID: <a8efd22c-20ea-48d6-8a86-1f434c93ca36@v19g2000yqn.googlegroups.com>
References: <ac16b7df-daba-421e-84df-5b33898b0ddc@i20g2000prf.googlegroups.com>
     <01290be1-9634-446f-8158-a2902a00890e@e5g2000vbe.googlegroups.com>
     <ca5ea42e-e065-4230-8509-979166654a39@c11g2000yqj.googlegroups.com>
     <f756def7-cd91-410d-9b66-0a9c8cc6188c@v15g2000yqn.googlegroups.com>
NNTP-Posting-Host: 64.12.117.19
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1236710175 12700 127.0.0.1 (10 Mar 2009 18:36:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 10 Mar 2009 18:36:15 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v19g2000yqn.googlegroups.com; posting-host=64.12.117.19;
     posting-account=EDccDAkAAAABP46fNoIwHp5AsVAkR7WJ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
     GTB5; SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506;
     InfoPath.2),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.2 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-mtc-tg04.proxy.aol.com[400C70C4] (Prism/1.2.1), HTTP/1.1
     cache-mtc-ae15.proxy.aol.com[400C7513] (Traffic-Server/6.1.5 [uScM])
Xref: g2news2.google.com rec.radio.amateur.homebrew:2302
```

On Mar 9, 10:02=EF=BF=BDpm, raypsi <RBorow...@gmail.com> wrote:

> On Mar 8, 9:23 pm, JIMMIE <jimmi...@gmail.com> wrote:
>
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> n8zu- Hide quoted text -
>
> - Show quoted text -

Mag Amps were used quite a bit in battery chargers, AC motor controls, AC generator excitation systems, voltage regulators ect., they were as you say, simple and rugged. I think it was in the 80's when power semiconductors started getting bigger and better that they started to get phased out. There is a book about mag amps written in 1960 that you can download on the free tech books site. It talks about how amazed the British engineers were at the Germans use of mag amps in their rockets and fire control systems. Even though vacuum tubes had been around for several years, the Germans discovered that mag amps were superior in many applications.

I don't think they would make a very practical HF amplifier, because they operate with AC supply voltages. They will not effectively amplify an AC voltage whose frequency is any higher than its supply voltage frequency. That is why mag amps usually operate at 60HZ, there are plenty of 60HZ power supplies around.

Gary N4AST

From 7472739955725663366
X-Google-Thread: fc2a5,4a98662a17cf2ca7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!q9g2000yqc.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HV SMPS
Date: Wed, 11 Mar 2009 05:59:25 -0700 (PDT)
Organization: http://groups.google.com
Lines: 114

```
Message-ID: <c7e55015-92c6-4913-a55f-0c7c0abc0f31@q9g2000yqc.googlegroups.com>
References: <ac16b7df-daba-421e-84df-5b33898b0ddc@i20g2000prf.googlegroups.com>
     <01290be1-9634-446f-8158-a2902a00890e@e5g2000vbe.googlegroups.com>
     <ca5ea42e-e065-4230-8509-979166654a39@c11g2000yqj.googlegroups.com>
     <f756def7-cd91-410d-9b66-0a9c8cc6188c@v15g2000yqn.googlegroups.com>
     <a8efd22c-20ea-48d6-8a86-1f434c93ca36@v19g2000yqn.googlegroups.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1236776365 10473 127.0.0.1 (11 Mar 2009 12:59:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 11 Mar 2009 12:59:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q9g2000yqc.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2006

On Mar 10, 2:36=A0pm, jgboy...@aol.com wrote:
> On Mar 9, 10:02 pm, raypsi <RBorow...@gmail.com> wrote:
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Ive worked on equipment that used magnetic amplifiers for over 30
years but have never really gotten my head around how they worked. Ive
seen them used in welders,computers and radars,all now very obsolete.
From what I have read they sound a lot like a parametric amplifiier.

Jimmie

From -1769432081052630434
X-Google-Thread: fc2a5,81163697d6039ad3,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!h20g2000yqn.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: When is class C no longer good enough for digital modes?
Date: Wed, 11 Mar 2009 06:41:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 21
Message-ID: <e4e3da2d-3451-41f9-8740-4131cc5a3174@h20g2000yqn.googlegroups.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1236778915 18758 127.0.0.1 (11 Mar 2009 13:41:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 11 Mar 2009 13:41:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h20g2000yqn.googlegroups.com; posting-host=170.121.14.12;

posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
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.NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2007

Class C operation seems very well suited to HF CW operation. At least if the resulting envelope looks "nice" by ARRL handbook definition of keyclick reduction, I guess.

But is it good enough for RTTY?

How about for PSK-31? Olivia?

What I've got is an old Eico 720 (Novice 75W-class transmitter biased for deep class C, for those too young to remember) that I currently use for CW, but would like to try out for RTTY or maybe PSK-31 by feeding appropriate waveforms into the "VFO in" jack. My gut feeling is that RTTY would be OK but don't really understand how class C will mess up the PSK-31 waveform or introduce intermod that will make the resulting spectrum broader than necessary.

The Class C stages will clearly fail the usual SSB two-tone testing but what is a more appropriate test to say that it's good enough - or not - for PSK-31?

Tim N3QE

From 6086600562185250197
X-Google-Thread: fcc6e,bbadff45a63d88b2,start
X-Google-Thread: fc2a5,bbadff45a63d88b2,start
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!nlpi057.nbdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi066.nbdc.sbc.com.POSTED!9b0b1a69!not-for-mail
From: Usual Suspect <reply@thegroup.net>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C5DD2AE101A1C1C2B02049AF@news.sf.sbcglobal.net>
Subject: More reflectors = better?
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Reply-To: reply@thegroup.net
Lines: 16
NNTP-Posting-Host: 99.189.171.35
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi066.nbdc.sbc.com 1236786385 ST000 99.189.171.35 (Wed, 11 Mar 2009
11:46:25 EDT)
NNTP-Posting-Date: Wed, 11 Mar 2009 11:46:25 EDT
Organization: at&t http://my.att.net/

X-UserInfo1:
[[PAPDCAOHUQB_LX^ZHB^VTDEB\@PD\MNPWZKB]MPXHJUZ]CDVW[AKK[J\]^HVKHG^EWZHBLO^[\NH_AZF
WGN^\DHNVMX_DHHX[FSQKBOTS@@BP^]C@RHS_AGDDC[AJM_T[GZNRNZAY]GNCPBDYKOLK^_CZFWPGHZIXW
@C[AFKBBQS@E@DAZ]VDFUNTQQ]FN
Date: Wed, 11 Mar 2009 08:46:25 -0700
Xref: g2news1.google.com rec.radio.amateur.antenna:8615
rec.radio.amateur.homebrew:2008

Hoverman design for UHF TV:

<http://www.digitalhome.ca/ota/superantenna/design.htm>

More reflectors would make it easier to bond them together (ie, a screen with
only horizontal elements) for more physical strength.

Does adding more reflectors introduce any negative byproducts?

I see that in this design the reflectors are of particular lengths. Does this
imply that lengthening them is counterproductive?

Thanks.
--
Al, the usual

From -8154549634952831987
X-Google-Thread: fcc6e,bbadff45a63d88b2
X-Google-Thread: fc2a5,bbadff45a63d88b2
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!o11g2000yql.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: More reflectors = better?
Date: Wed, 11 Mar 2009 11:40:01 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <37bfffac-513e-47af-8fd1-a048ae8e4d37@o11g2000yql.googlegroups.com>
References: <0001HW.C5DD2AE101A1C1C2B02049AF@news.sf.sbcglobal.net>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1236796801 11846 127.0.0.1 (11 Mar 2009 18:40:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 11 Mar 2009 18:40:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o11g2000yql.googlegroups.com; posting-host=192.25.142.225;
posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.7)

```
     Gecko/2009021910 Firefox/3.0.7,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.antenna:8618
rec.radio.amateur.homebrew:2009

On Mar 11, 8:46=A0am, Usual Suspect <re...@thegroup.net> wrote:
> Hoverman design for UHF TV:
>
> <http://www.digitalhome.ca/ota/superantenna/design.htm>
>
> More reflectors would make it easier to bond them together (ie, a screen =
with
> only horizontal elements) for more physical strength.
>
> Does adding more reflectors introduce any negative byproducts?
>
> I see that in this design the reflectors are of particular lengths. Does =
this
> imply that lengthening them is counterproductive?
>
> Thanks.
> --
> Al, the usual

From the discussion on that website, they make it sound like the
antenna is pretty insensitive to whether a reflector screen or
individual tuned reflectors are used.  But it's obvious that there've
been several folk involved with modelling and building these antennas
in that group.  Have you tried asking them?  Seems like they're the
ones with the experience.

It's nice to see a practical homebrew antenna design like that.
Thanks for posting the link.

Cheers,
Tom



From -7756041203292616859
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!j35g2000yqh.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: When is class C no longer good enough for digital modes?
Date: Wed, 11 Mar 2009 11:55:11 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <bb3ab395-e5ee-4c51-b7b2-db6f39a82847@j35g2000yqh.googlegroups.com>
References: <e4e3da2d-3451-41f9-8740-4131cc5a3174@h20g2000yqn.googlegroups.com>
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Mime-Version: 1.0
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NNTP-Posting-Date: Wed, 11 Mar 2009 18:55:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j35g2000yqh.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.7)
     Gecko/2009021910 Firefox/3.0.7,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2307

On Mar 11, 6:41=A0am, Tim Shoppa <sho...@trailing-edge.com> wrote:
> Class C operation seems very well suited to HF CW operation. At least
> if the resulting envelope looks "nice" by ARRL handbook definition of
> keyclick reduction, I guess.
>
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>
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> feeding appropriate waveforms into the "VFO in" jack. My gut feeling
> is that RTTY would be OK but don't really understand how class C will
> mess up the PSK-31 waveform or introduce intermod that will make the
> resulting spectrum broader than necessary.
>
> The Class C stages will clearly fail the usual SSB two-tone testing
> but what is a more appropriate test to say that it's good enough - or
> not - for PSK-31?
>
> Tim N3QE

PSK-31 is just slow phase-shift keying, no? If the 720 had very
narrow tuned circuits in it, it could be a problem preserving the
fidelity of really fast phase-shift keying, but for the speeds
involved, a very tiny percentage of the bandwidth of the transmitter,
there simply shouldn't be any problem. I suppose there could be an
issue if the transmitter tries to self-oscillate, but if it does,
you've got bigger problems than PSK-31 transmission!

Cheers,
Tom

From -3181736352783965597
X-Google-Thread: fc2a5,81163697d6039ad3
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!

```
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 11 Mar 2009 20:40:10 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: When is class C no longer good enough for digital modes?
Newsgroups: rec.radio.amateur.homebrew
References: <e4e3da2d-3451-41f9-8740-4131cc5a3174@h20g2000yqn.googlegroups.com>
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MIME-Version: 1.0
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qrhLDxW6lSvYBM0=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2308
```

On Wed, 11 Mar 2009 06:41:55 -0700, Tim Shoppa wrote:

> Class C operation seems very well suited to HF CW operation. At least if
> the resulting envelope looks "nice" by ARRL handbook definition of
> keyclick reduction, I guess.
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> RTTY would be OK but don't really understand how class C will mess up
> the PSK-31 waveform or introduce intermod that will make the resulting
> spectrum broader than necessary.
>
> The Class C stages will clearly fail the usual SSB two-tone testing but
> what is a more appropriate test to say that it's good enough - or not -
> for PSK-31?
>
> Tim N3QE

If the signal has a constant envelope then it'll be fine with class C.

RTTY should be fine, I don't know about PSK-31 or Olivia.

```
--
http://www.wescottdesign.com


From 3964561243825675080
X-Google-Thread: fc2a5,81163697d6039ad3
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
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border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.linkline.com!news.linkline.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 11 Mar 2009 21:11:18 -0500
From: Bart Rowlett <bart@wb6hqk.ampr.org>
Subject: Re: When is class C no longer good enough for digital modes?
Newsgroups: rec.radio.amateur.homebrew
References: <e4e3da2d-3451-41f9-8740-4131cc5a3174@h20g2000yqn.googlegroups.com>
     <bb3ab395-e5ee-4c51-b7b2-db6f39a82847@j35g2000yqh.googlegroups.com>
User-Agent: Pan/0.133 (House of Butterflies)
MIME-Version: 1.0
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Date: Wed, 11 Mar 2009 21:11:18 -0500
Lines: 41
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X-Complaints-To: abuse@linkline.com
X-DMCA-Complaints-To: abuse@linkline.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:2012

On Wed, 11 Mar 2009 11:55:11 -0700, K7ITM wrote:

> On Mar 11, 6:41 am, Tim Shoppa <sho...@trailing-edge.com> wrote:
>> Class C operation seems very well suited to HF CW operation. At least
>> if the resulting envelope looks "nice" by ARRL handbook definition of
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```

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> PSK-31 is just slow phase-shift keying, no? If the 720 had very narrow
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> percentage of the bandwidth of the transmitter, there simply shouldn't
> be any problem. I suppose there could be an issue if the transmitter
> tries to self-oscillate, but if it does, you've got bigger problems than
> PSK-31 transmission!
>

PSK31 uses a raised cosine amplitude weighted amplitude function in order to contain the occupied bandwidth. Use of a class C amplifier disrupts the weighting and causes the bandwidth to spread considerably. The demodulator will still work fairly well but the spectral spreading is considered un-neighborly!

bart
wb6hqk

```
From -2530742047299970136
X-Google-Thread: fc2a5,81163697d6039ad3
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
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nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 11 Mar 2009 23:36:57 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: When is class C no longer good enough for digital modes?
Newsgroups: rec.radio.amateur.homebrew
References: <e4e3da2d-3451-41f9-8740-4131cc5a3174@h20g2000yqn.googlegroups.com>
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     <NPednVj9INvb8iXUnZ2dnUVZ_hmcnZ2d@linkline.com>
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Date: Wed, 11 Mar 2009 23:36:57 -0500
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iGLJNOHPwmYPjDplaWkdk/tmjL1qngX+3qEbQng/WzMLVas4QBGQxMD5YIQAtzuervqJkzlnXNsh!
DRsaTA444zCpLiE=
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:2013

On Wed, 11 Mar 2009 21:11:18 -0500, Bart Rowlett wrote:

> On Wed, 11 Mar 2009 11:55:11 -0700, K7ITM wrote:
>
>> On Mar 11, 6:41 am, Tim Shoppa <sho...@trailing-edge.com> wrote:
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> bart
> wb6hqk

So, PSK-31 is out.

(Unless you want to get fancy and amplitude modulate to preserve the envelope at the same time that you phase modulate the VFO input to preserve the phase. There's almost no sane reason to try this, but it'd be fun if it worked. Kind of a "Look how well my old iron works! (pay no attention to the DSP behind the curtain).")

--
http://www.wescottdesign.com

From -8904554429299472732
X-Google-Thread: fc2a5,81163697d6039ad3
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Path: g2news1.google.com!news3.google.com!news.germany.com!newsfeed3.funet.fi!newsfeeds.funet.fi!feeder2.news.saunalahti.fi!uutiset.elisa.fi!7564ea0f!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: When is class C no longer good enough for digital modes?
Message-ID: <uv7hr41vihjeu5j64g8ug1mmqnj0go2fhq@4ax.com>
References: <e4e3da2d-3451-41f9-8740-4131cc5a3174@h20g2000yqn.googlegroups.com>
<bb3ab395-e5ee-4c51-b7b2-db6f39a82847@j35g2000yqh.googlegroups.com>
<NPednVj9INvb8iXUnZ2dnUVZ_hmcnZ2d@linkline.com>
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X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 34
Date: Thu, 12 Mar 2009 07:46:59 +0200
NNTP-Posting-Host: 85.77.244.35
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: uutiset.elisa.fi 1236836817 85.77.244.35 (Thu, 12 Mar 2009 07:46:57 EET)
NNTP-Posting-Date: Thu, 12 Mar 2009 07:46:57 EET
Organization: Elisa Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:2014

On Wed, 11 Mar 2009 23:36:57 -0500, Tim Wescott <tim@seemywebsite.com>
wrote:

>On Wed, 11 Mar 2009 21:11:18 -0500, Bart Rowlett wrote:

>> PSK31 uses a raised cosine amplitude weighted amplitude function in
>> order to contain the occupied bandwidth. Use of a class C amplifier
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>> wb6hqk
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>preserve the phase. There's almost no sane reason to try this, but it'd
>be fun if it worked. Kind of a "Look how well my old iron works! (pay no
>attention to the DSP behind the curtain).")

A plate modulated AM transmitter is basically a class C amplifier with variable supply voltage, unfortunately it is hard to get 100 % modulation with such simple systems, i.e. it is hard to get the power down to 0. However, much of the PSK-31 envelope can still be simulated.

Plate modulated AM transmitters for voice communication might have a modulation transformer with a quite limited bandwidth, which might not work well the slow PSK31 envelope.

Paul OH3LWR

```
From 8997372311614749103
X-Google-Thread: fc2a5,81163697d6039ad3
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X-Google-Language: ENGLISH,ASCII
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mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: When is class C no longer good enough for digital modes?
Date: Thu, 12 Mar 2009 09:00:10 -0700 (PDT)
Organization: http://groups.google.com
Lines: 30
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NNTP-Posting-Date: Thu, 12 Mar 2009 16:00:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2015
```

On Mar 11, 9:41=A0am, Tim Shoppa <sho...@trailing-edge.com> wrote:
> Class C operation seems very well suited to HF CW operation. At least
> if the resulting envelope looks "nice" by ARRL handbook definition of
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>
> Tim N3QE

Its not just a matter of whether or not it will work but whether it
not it will work within the confinments of the allocatted bandwidth. I
think any mode normally used with a SSB transmition would probably
flunk this test.

Jimmie

```
From -5330048943723949803
X-Google-Thread: fc2a5,8da8f10cf70f51d4,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q9g2000yqc.googlegroups.com!not-for-mail
From: slohand <jglass@ab9if.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: USREPEATERS.COM downloadable digital database directory list.
Date: Thu, 12 Mar 2009 13:59:15 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <7cc2c045-87a5-4bdc-ba59-f2618f2ce80e@q9g2000yqc.googlegroups.com>
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NNTP-Posting-Date: Thu, 12 Mar 2009 20:59:15 +0000 (UTC)
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727; InfoPath.1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: 1.1 jamar-duluth.apigroupinc.com (squid/3.0.STABLE10)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2313
```

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```
From -5589669126993920002
X-Google-Thread: fc2a5,74cfb0961e7f9d22,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l16g2000yqo.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Magnetic Amplifiers
Date: Thu, 12 Mar 2009 14:50:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 8
Message-ID: <af807495-2ad3-4bce-b95a-ffa0715889bc@l16g2000yqo.googlegroups.com>
NNTP-Posting-Host: 165.254.211.4
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Content-Transfer-Encoding: 7bit
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Injection-Info: l16g2000yqo.googlegroups.com; posting-host=165.254.211.4;
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2314
```

I would like to experiment with some magnetic amplifier circuits but I havent been able to find any practical circuits I could build. I am interested in relalitively small signal amplification of AF and possibly ultrasonic frequencies purely for educational purpose. I have a couple of transformers and wan to see what I can do with them.

Jimmie

From 6344316677857460384
X-Google-Thread: fc2a5,74cfb0961e7f9d22
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!news1.optus.net.au!optus!newsfeeder.syd.optusnet.com.au!news.optusnet.com.au!not-for-mail
Date: Fri, 13 Mar 2009 09:31:44 +1100
From: Clifford Heath <no@spam.please.net>
User-Agent: Mozilla-Thunderbird 2.0.0.17 (X11/20081018)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Magnetic Amplifiers
References: <af807495-2ad3-4bce-b95a-ffa0715889bc@l16g2000yqo.googlegroups.com>
In-Reply-To: <af807495-2ad3-4bce-b95a-ffa0715889bc@l16g2000yqo.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 11
Message-ID: <49b98e2b$0$20620$afc38c87@news.optusnet.com.au>
NNTP-Posting-Host: 122.107.155.136
X-Trace: 1236897323 20620 122.107.155.136
X-Original-Bytes: 1292
Xref: g2news2.google.com rec.radio.amateur.homebrew:2315

JIMMIE wrote:
> I would like to experiment with some magnetic amplifier circuits but I
> havent been able to find any practical circuits I could build. I am
> interested in relalitively small signal amplification of AF and
> possibly ultrasonic frequencies purely for educational purpose. I have
> a couple of transformers and wan to see what I can do with them.

I've seen this discussed on sci.electronics.design, and there are
probably folk there who can help you.

Clifford Heath, VK3CLF.

From -1531415658894692892
X-Google-Thread: fc2a5,74cfb0961e7f9d22
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!z1g2000yqn.googlegroups.com!not-for-mail
From: jgboyles@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Magnetic Amplifiers
Date: Thu, 12 Mar 2009 16:21:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 15

```
Message-ID: <95623b76-ed28-41f1-9e3e-8aa69f24a364@z1g2000yqn.googlegroups.com>
References: <af807495-2ad3-4bce-b95a-ffa0715889bc@l16g2000yqo.googlegroups.com>
NNTP-Posting-Host: 205.188.117.19
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1236900070 11401 127.0.0.1 (12 Mar 2009 23:21:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 12 Mar 2009 23:21:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z1g2000yqn.googlegroups.com; posting-host=205.188.117.19;
     posting-account=EDccDAkAAAABP46fNoIwHp5AsVAkR7WJ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
     GTB5; SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506;
     InfoPath.2),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.2 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-dtc-te08.proxy.aol.com[CDBC7088] (Prism/1.2.1), HTTP/1.1
     cache-dtc-ae15.proxy.aol.com[CDBC7513] (Traffic-Server/6.1.5 [uScM])
Xref: g2news2.google.com rec.radio.amateur.homebrew:2316
```

On Mar 12, 4:50=EF=BF=BDpm, JIMMIE <jimmi...@gmail.com> wrote:

> I would like to experiment with some magnetic amplifier circuits but I
> havent been able to find any practical circuits I could build. I am
> interested in relalitively small signal amplification of =EF=BF=BDAF and
> possibly ultrasonic frequencies purely for educational purpose. I have
> a couple of transformers and wan to see what I can do with them.
>
> Jimmie

Jimmie, download "Magnetic Amplifiers" by Paul Mali. Google and it is
free. I mentioned this in the HV SMPS thread. This is the only text
I have ever read on Mag. Amps, and it is good. Should give you ideas
for experimentation.

Gary N4AST

```
From 6952145310584021578
X-Google-Thread: fc2a5,74cfb0961e7f9d22
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!w34g2000yqm.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Magnetic Amplifiers
Date: Fri, 13 Mar 2009 02:54:08 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <3e7f1c78-dc79-408d-9c35-d2ae928b8ec8@w34g2000yqm.googlegroups.com>
References: <af807495-2ad3-4bce-b95a-ffa0715889bc@l16g2000yqo.googlegroups.com>
NNTP-Posting-Host: 76.232.148.162
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1236938048 9377 127.0.0.1 (13 Mar 2009 09:54:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 13 Mar 2009 09:54:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w34g2000yqm.googlegroups.com; posting-host=76.232.148.162;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.17)
     Gecko/20080829 Firefox/2.0.0.17,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2317

On Mar 12, 5:50 pm, JIMMIE <jimmi...@gmail.com> wrote:
> I would like to experiment with some magnetic amplifier circuits but I
> havent been able to find any practical circuits I could build. I am
> interested in relalitively small signal amplification of  AF and
> possibly ultrasonic frequencies purely for educational purpose. I have
> a couple of transformers and wan to see what I can do with them.
>
> Jimmie

Hey OM:

I can see a great linear amp antenna output switch. I've been looking
for a cheap way to switch all that power and vacuum relays I don't
have in my junk box. I do have some T200's and FT240's. Using a small
DC voltage to saturate the core on and off, making the output coil
switch from a milli ohm resistance to thousands of ohms of impedance.
Sweet.
I know mag amps were used in audio applications, I can see a QRP rig
with no transistors or tubes. Using just toroids.
73 OM

de n8zu



From 4912360356493744357
X-Google-Thread: fc2a5,74cfb0961e7f9d22
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!q11g2000yqh.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Magnetic Amplifiers
Date: Fri, 13 Mar 2009 12:49:02 -0700 (PDT)
Organization: http://groups.google.com
Lines: 34
Message-ID: <b5f2fb4c-7fb8-4f84-851d-4f79840d5d31@q11g2000yqh.googlegroups.com>
References: <af807495-2ad3-4bce-b95a-ffa0715889bc@l16g2000yqo.googlegroups.com>
     <3e7f1c78-dc79-408d-9c35-d2ae928b8ec8@w34g2000yqm.googlegroups.com>
```

```
NNTP-Posting-Host: 165.254.211.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1236973742 27103 127.0.0.1 (13 Mar 2009 19:49:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 13 Mar 2009 19:49:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q11g2000yqh.googlegroups.com; posting-host=165.254.211.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2021

On Mar 13, 5:54=A0am, raypsi <RBorow...@gmail.com> wrote:
> On Mar 12, 5:50 pm, JIMMIE <jimmi...@gmail.com> wrote:
>
> > I would like to experiment with some magnetic amplifier circuits but I
> > havent been able to find any practical circuits I could build. I am
> > interested in relalitively small signal amplification of =A0AF and
> > possibly ultrasonic frequencies purely for educational purpose. I have
> > a couple of transformers and wan to see what I can do with them.
>
> > Jimmie
>
> Hey OM:
>
> I can see a great linear amp antenna output switch. I've been looking
> for a cheap way to switch all that power and vacuum relays I don't
> have in my junk box. I do have some T200's and FT240's. Using a small
> DC voltage to saturate the core on and off, making the output coil
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> Sweet.
> I know mag amps were used in audio applications, I can see a QRP rig
> with no transistors or tubes. Using just toroids.
> 73 OM
>
> de n8zu

My experience with them has been limited to pulse amplifiers but I was
under the impression that they could also be used in a linear mode, at
least it seems I heard that some where. It would be neat to have a
stereo amp with no tubes or transistors. As far as QRP goes I dont
think they work well above 1 Mhz but that was best info I had 40 years
ago. With new core mixes it may be possible.


Jimmie


From 2528799084099368906
X-Google-Thread: fc2a5,7828c8791c1b4869,start
```

```
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!41g2000yqf.googlegroups.com!not-for-
mail
From: joeturn <joeturn2000@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Grant Funding Search Scam
Date: Fri, 13 Mar 2009 15:46:56 -0700 (PDT)
Organization: http://groups.google.com
Lines: 54
Message-ID: <af0b91fc-e2b8-41f3-8d93-b5dac98f41d5@41g2000yqf.googlegroups.com>
NNTP-Posting-Host: 24.95.252.127
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1236984416 24829 127.0.0.1 (13 Mar 2009 22:46:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 13 Mar 2009 22:46:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 41g2000yqf.googlegroups.com; posting-host=24.95.252.127;
     posting-account=TOBUfggAAAC5Ow7sgid-1fbF1N9O6T1h
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2319
```

I was misled by a local tv broadcast stating a survey was done on grovernment grant assitance programs!!
 Well it must have been a bought advertisement instead of a survey,it pointed out certain sies to steer away from but also recommened this one highly.

grantfundingsearch.com

The informercial said these people only charged a shipping fee! So I jumped on the band wagon a free government grant to never have to repay and all you had do was order the cd explaing the how to !!

I gave them my credit card information to charge my account $1.98 shipping. After recieving the CD it was a disappointment it only told you to be proper and ernest and use request letter that would not be shit canned!!

Not what I was looking for at all,I wanted specifics maybe something I could simply sign and be considered since soo much research had gone into the program being offered!!

$1.98 well I felt decieved yet it was a cheap lesson and I forgot

about it!! Three months later I recieve a statement from
grantfundingsearch that my account was charged this time for $69.95
which after a call was told that I was put on a 7 day trail if I was
unsatisisfied I was to cancle my subscription!

I had to give the phone to my wife as I was not easily adjusting to
the DOT HEAD on the other end!! When I returned from a cooldown walk

>> The wife told me That Not only did I get scamed for the CD$1.98

yet I was charged for a membership fee of $69.95! The fine print gave
me a time limit to deny the charges or else they assumed I was
wanting
to become a member of this Scam Organization!

How low will they go well not only had I not advised them via email
or
a written statement, that I would be charged on a regular basis..Who
knows how much or for how long!! I hope the FEDS does there job here
and bust the chops of this scam, However I'm afraid to think it is
most likely a FERDERALLY backed SCam opperation >>ORGANIZED CRIME
rides again

```
From 6630173461819455809
X-Google-Thread: fc2a5,313f5dd27f9f61ce,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news2.google.com!postnews.google.com!e1g2000pra.googlegroups.com!not-for-
mail
From: Jim <k0jkj@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Homebrew Double conversion tube receiver Not HBR
Date: Fri, 13 Mar 2009 19:51:01 -0700 (PDT)
Organization: http://groups.google.com
Lines: 36
Message-ID: <ed168150-ef46-4749-81fd-6d278093bcf1@e1g2000pra.googlegroups.com>
NNTP-Posting-Host: 24.9.112.189
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1236999061 10515 127.0.0.1 (14 Mar 2009 02:51:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 14 Mar 2009 02:51:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e1g2000pra.googlegroups.com; posting-host=24.9.112.189;
     posting-account=gkPtGgkAAAA5qZ20QdFR0i4D9Yti2ZE5
User-Agent: G2/1.0
```

X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.0.7)
Gecko/2009030503 Fedora/3.0.7-1.fc10 Firefox/3.0.7,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2320

I recently acquired a HOME BREW double conversion 23 channel CB receiver, yes I now it's not a real boat anchor but given that it has 11 tubes plus several diodes , I thought I'd ask about it here. It looks very well made. I was hoping that some one would recognize it by tube line up. I have started drawing the schematic . It has the following tubes, 6EH7 (the RF amp) , 12AT7, 12AU7, 6BN8, 6HR6, 6BA6, 6BE6, 6GX6, 12AX7, 6AQ5, and an OA2. It has 6 RF and IF transformers.

The antenna is connected directly to an untuned transformer with the RF amp feed by a cap off the secondary. The first oscillator uses a 29305 Kc crystal for the first oscillator stage. So a simple change of crystal will put it on 10 meters AM. It has a =93S meter=94 and what I suspect is a meter adj. pot on the back. There is a octal socket on the back labeled transmitter that has two lines jumped as well as a voltage divider with a large electrolytic to ground in the middle of the divider.

The tuning cap is three section with one section switched by a control on the front panel. The tuning cap is driven by a very nicely home made dial cord mechanism with a heavy flywheel. So far I have figured out the RF and audio gain controls. The other two front panels pots function are a question as well as the functions of four multi section toggle switches. With the filter caps being bad. I have not powered it up for more than two minutes.

Does anyone remember a home brew rig with these features HAM or CB? I would like to find a schematic if possible. As I am only about half way through drawing up one. I looked at the HBR site and it doesn't seem to match anything there. But given the limited 23 channel coverage (plus channels A-D) it looks like it's from the late 1960's or real early 1970's .

Thanks For any Info.

Jim

From 7663015211376520132
X-Google-Thread: fc2a5,313f5dd27f9f61ce
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!postnews.google.com!z1g2000yqn.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Double conversion tube receiver Not HBR
Date: Fri, 13 Mar 2009 21:02:39 -0700 (PDT)
Organization: http://groups.google.com

```
Lines: 47
Message-ID: <415b578d-8a28-4f5d-bd67-018b89e0b40f@z1g2000yqn.googlegroups.com>
References: <ed168150-ef46-4749-81fd-6d278093bcf1@e1g2000pra.googlegroups.com>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1237003359 24181 127.0.0.1 (14 Mar 2009 04:02:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 14 Mar 2009 04:02:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z1g2000yqn.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2024

On Mar 13, 10:51=A0pm, Jim <k0...@arrl.net> wrote:
> I recently acquired a HOME BREW =A0double conversion 23 channel CB
> receiver, yes I now it's not a real boat anchor but given that it has
> 11 tubes plus several diodes , I thought I'd ask about it here. It
> looks very well made. =A0I was hoping that some one would recognize it
> by tube line up. I =A0have started drawing the schematic . It has the
> following tubes, 6EH7 (the RF amp) , 12AT7, 12AU7, 6BN8, 6HR6, 6BA6,
> 6BE6, 6GX6, 12AX7, 6AQ5, and an OA2. =A0It has 6 RF and IF
> transformers.
>
> =A0The antenna is connected directly to an untuned transformer with the
> RF amp feed by a cap off the secondary. =A0The first oscillator uses a
> 29305 Kc crystal for the first oscillator stage. So a simple change of
> crystal will put it on 10 meters AM. It has a =93S meter=94 and what I
> suspect is a meter adj. pot on the back. There is a octal socket on
> the back labeled transmitter that has two lines jumped as well as a
> voltage divider with a large electrolytic to ground in the middle of
> the divider.
>
> =A0The tuning cap is three section with one section switched by a
> control on the front panel. The tuning cap is driven by a very nicely
> home made dial cord mechanism with a heavy flywheel. =A0So far I have
> figured out =A0the RF and audio gain controls. The other two front
> panels pots function are a question as well as the functions of =A0four
> multi section toggle switches. =A0With the filter caps being bad. I have
> not powered it up for more than two minutes.
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> way through drawing up one. I looked at the HBR site and it doesn't
> seem to match anything there. But given the limited 23 channel
> coverage (plus channels A-D) =A0it looks like it's from the late 1960's
> or real early 1970's .
>
> Thanks For any Info.
```

>
> Jim

Maybe its a copy of a Browning Eagle CB. These were popular back then, . I remember there were some people making a Super Eagle transmitter back then. It had a 6146 final. I think the guy making them was from Baxley Ga.

Jimmie

From 800963602513347140
X-Google-Thread: fc2a5,74cfb0961e7f9d22
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
news2.glorb.com!news.litech.org!not-for-mail
From: mikea <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Magnetic Amplifiers
Date: Sat, 14 Mar 2009 17:08:15 -0500
Organization: Litech Systems Design
Lines: 40
Sender: mikea@mikea.ath.cx
Message-ID: <ffmt86-1kn2.ln1@mikea.ath.cx>
References: <af807495-2ad3-4bce-b95a-ffa0715889bc@l16g2000yqo.googlegroups.com>
<3e7f1c78-dc79-408d-9c35-d2ae928b8ec8@w34g2000yqm.googlegroups.com>
<b5f2fb4c-7fb8-4f84-851d-4f79840d5d31@q11g2000yqh.googlegroups.com>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1237068496 19029 70.164.65.62 (14 Mar 2009 22:08:16 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Sat, 14 Mar 2009 22:08:16 +0000 (UTC)
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (FreeBSD/7.1-RELEASE (i386))
Xref: g2news1.google.com rec.radio.amateur.homebrew:2025

JIMMIE <jimmie68@gmail.com> wrote in
<b5f2fb4c-7fb8-4f84-851d-4f79840d5d31@q11g2000yqh.googlegroups.com>:
> On Mar 13, 5:54?am, raypsi <RBorow...@gmail.com> wrote:
>> On Mar 12, 5:50 pm, JIMMIE <jimmi...@gmail.com> wrote:
>>
>> > I would like to experiment with some magnetic amplifier circuits but I
>> > havent been able to find any practical circuits I could build. I am
>> > interested in relalitively small signal amplification of ?AF and
>> > possibly ultrasonic frequencies purely for educational purpose. I have
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>>
>> > Jimmie
>>
>> Hey OM:
>>

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>> have in my junk box. I do have some T200's and FT240's. Using a small
>> DC voltage to saturate the core on and off, making the output coil
>> switch from a milli ohm resistance to thousands of ohms of impedance.
>> Sweet.
>> I know mag amps were used in audio applications, I can see a QRP rig
>> with no transistors or tubes. Using just toroids.
>> 73 OM
>>
>> de n8zu
>
> My experience with them has been limited to pulse amplifiers but I was
> under the impression that they could also be used in a linear mode, at
> least it seems I heard that some where. It would be neat to have a
> stereo amp with no tubes or transistors. As far as QRP goes I dont
> think they work well above 1 Mhz but that was best info I had 40 years
> ago. With new core mixes it may be possible.

I worked on gear that used them when I was in the USAF. Pretty neat way
to regulate a DC PS.

--
When I hit a *nix workstation with an axe, I'm interacting with it.
It's not necessarily the sort of interaction contemplated by the
designers, but it _is_ interaction.

```
From 9186153871385391440
X-Google-Thread: fc2a5,313f5dd27f9f61ce
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!postnews.google.com!t3g2000yqa.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Double conversion tube receiver Not HBR
Date: Sat, 14 Mar 2009 16:37:38 -0700 (PDT)
Organization: http://groups.google.com
Lines: 59
Message-ID: <b595bb92-64bb-4709-846e-c27ee8355696@t3g2000yqa.googlegroups.com>
References: <ed168150-ef46-4749-81fd-6d278093bcf1@e1g2000pra.googlegroups.com>
     <415b578d-8a28-4f5d-bd67-018b89e0b40f@z1g2000yqn.googlegroups.com>
NNTP-Posting-Host: 76.232.148.162
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1237073858 18978 127.0.0.1 (14 Mar 2009 23:37:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 14 Mar 2009 23:37:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t3g2000yqa.googlegroups.com; posting-host=76.232.148.162;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
```

```
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.7)
     Gecko/2009021910 Firefox/3.0.7 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2026

On Mar 14, 12:02=A0am, JIMMIE <jimmi...@gmail.com> wrote:
> On Mar 13, 10:51=A0pm, Jim <k0...@arrl.net> wrote:
>
>
>
> > I recently acquired a HOME BREW =A0double conversion 23 channel CB
> > receiver, yes I now it's not a real boat anchor but given that it has
> > 11 tubes plus several diodes , I thought I'd ask about it here. It
> > looks very well made. =A0I was hoping that some one would recognize it
> > by tube line up. I =A0have started drawing the schematic . It has the
> > following tubes, 6EH7 (the RF amp) , 12AT7, 12AU7, 6BN8, 6HR6, 6BA6,
> > 6BE6, 6GX6, 12AX7, 6AQ5, and an OA2. =A0It has 6 RF and IF
> > transformers.
>
> > =A0The antenna is connected directly to an untuned transformer with the
> > RF amp feed by a cap off the secondary. =A0The first oscillator uses a
> > 29305 Kc crystal for the first oscillator stage. So a simple change of
> > crystal will put it on 10 meters AM. It has a =93S meter=94 and what I
> > suspect is a meter adj. pot on the back. There is a octal socket on
> > the back labeled transmitter that has two lines jumped as well as a
> > voltage divider with a large electrolytic to ground in the middle of
> > the divider.
>
> > =A0The tuning cap is three section with one section switched by a
> > control on the front panel. The tuning cap is driven by a very nicely
> > home made dial cord mechanism with a heavy flywheel. =A0So far I have
> > figured out =A0the RF and audio gain controls. The other two front
> > panels pots function are a question as well as the functions of =A0four
> > multi section toggle switches. =A0With the filter caps being bad. I hav=
e
> > not powered it up for more than two minutes.
>
> > Does anyone remember a home brew rig with these features HAM or CB? I
> > would like to find a schematic if possible. As I am only about half
> > way through drawing up one. I looked at the HBR site and it doesn't
> > seem to match anything there. But given the limited 23 channel
> > coverage (plus channels A-D) =A0it looks like it's from the late 1960's
> > or real early 1970's .
>
> > Thanks For any Info.
>
> > Jim
>
> Maybe its a copy of a Browning Eagle CB. These were popular back
> then, . I remember there were some people making a Super Eagle
> transmitter back then. It had a 6146 final. I think the guy making
> them was from Baxley Ga.
>
```

> Jimmie

Hey OM:

Multi Elmac used to be just down the street from where I worked and they made a double conversion 9 tube receiver a model PMR-8. They sold the S meter as an accessory.
Looks like 3 stages of IF. So 1 RF, 2 mixer, and 3 IF transformers.

73 OM
de n8zu

```
From 9124372860237861501
X-Google-Thread: fc2a5,3a78cb4828ccc76a,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!c36g2000yqn.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Nuvistor TV preamp mod
Date: Tue, 17 Mar 2009 15:56:43 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <b8ab8090-d338-4dfd-8857-6c49a4ec75a1@c36g2000yqn.googlegroups.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1237330603 26940 127.0.0.1 (17 Mar 2009 22:56:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 17 Mar 2009 22:56:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c36g2000yqn.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2324
```

I have 3 mast mounted nuvistor pre amps less power supplies. I was looking for information on these to convert them to use on the 6 and 2 meter and 70cm ham bands. I may still have a power supply around but as of yet I havent been able to find it. The pre amps are mount in a somewhat egg shaped plastic container with twin lead connections on them. Im not sure of the manufacturer. Schematics on the amplifiers and power supplies would be nice. Directions on doing the mod would be great. There are plans for ham band nuvistor preamps around so if I could figure out what I have it shouldnt be that difficult to conver it to what I want. Besides that it will give me something to do with these old 6cw4s.

Jimmie

From 4426045660163207808
X-Google-Thread: fc2a5,d8f5c1e658b3c68d,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe18.iad.POSTED!a5a3f2a0!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Was my fatehr's homebrew double conversion SW receiver a HBR?
From: Robert casey <wa2ise@ix.netcom.com>
Organization: wa2ise
Message-ID: <Xns9BD1E1FB4B216wa2ise@69.16.185.252>
User-Agent: Xnews/5.04.25
Lines: 13
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Wed, 18 Mar 2009 05:12:54 UTC
Date: Wed, 18 Mar 2009 05:12:54 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:2028

Looking thru a friend's Feb 2009 QST, saw an article on the W6TC "HBR" double conversion homebrew radio. Which my father may have built a copy of. I no longer have that radio, but looking at the pictures of teh sets in the QST article, it looks very similar to what my father built. I do remember that he used a 1.8MHz crystal for what might have been the 1st IF to 2nd IF conversion mixer. I also remember, in the mid 60's (I was in grammar school) getting this crystal for my father as an Xmas gift (well, I gave him money that he used to order the crystal, I would not have been old enough to know how to mail order stuff myself yet).

Anyway, did the HBR use a crystal of a frequency like this as a conversion local osc mixer? Or maybe the crystal wasn't in an oscillator circuit, but maybe as a bandpass filter?

From 3119720710629061578
X-Google-Thread: fc2a5,d8f5c1e658b3c68d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!w35g2000yqm.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my fatehr's homebrew double conversion SW receiver a HBR?
Date: Wed, 18 Mar 2009 00:43:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 38
Message-ID: <3151f9e3-fa2d-40f0-bdd0-49eba484eef0@w35g2000yqm.googlegroups.com>
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252>
NNTP-Posting-Host: 75.190.189.120

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Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1237362194 7906 127.0.0.1 (18 Mar 2009 07:43:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 18 Mar 2009 07:43:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w35g2000yqm.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2029

On Mar 18, 1:12=A0am, Robert casey <wa2...@ix.netcom.com> wrote:
> Looking thru a friend's Feb 2009 QST, saw an article on the W6TC "HBR"
> double conversion homebrew radio. =A0Which my father may have built a cop=
y
> of. =A0I no longer have that radio, but looking at the pictures of teh se=
ts
> in the QST article, it looks very similar to what my father built. =A0I d=
o
> remember that he used a 1.8MHz crystal for what might have been the 1st I=
F
> to 2nd IF conversion mixer. =A0I also remember, in the mid 60's (I was in
> grammar school) getting this crystal for my father as an Xmas gift (well,=
 I
> gave him money that he used to order the crystal, I would not have been o=
ld
> enough to know how to mail order stuff myself yet). =A0
>
> Anyway, did the HBR use a crystal of a frequency like this as a conversio=
n
> local osc mixer? =A0Or maybe the crystal wasn't in an oscillator circuit,=
 but
> maybe as a bandpass filter? =A0

I dont know about HBR but Bill Orr published plans for a radio like
that.
The radio was intended to be use with external down converter to cover
all
the ham bands.I think it was a pretty popular construction project for
a lot
of hams.

pmillet has copies of old copyright expired books and I think they
have a copy of Bill Orr"s
handbook that will have the plans I am talking about. You can download
the books for free.


Jimmie
```

From 6536143897650519808
X-Google-Thread: fc2a5,d8f5c1e658b3c68d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe07.iad.POSTED!7564ea0f!not-for-mail
From: "Unca Pete" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-bdd0-49eba484eef0@w35g2000yqm.googlegroups.com>
Subject: Re: Was my fatehr's homebrew double conversion SW receiver a HBR?
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <QX3wl.67367$FI5.20197@newsfe07.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe07.iad 1237371760 68.229.77.6 (Wed, 18 Mar 2009 10:22:40 UTC)
NNTP-Posting-Date: Wed, 18 Mar 2009 10:22:40 UTC
Organization: Cox
Date: Wed, 18 Mar 2009 06:22:30 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2327

The HBRs were a series of receivers designed by the late Ted Crosby, W6TC and published in QST during the late 50s and early 60s.

The design used plug-in coils for the osc and rf stages, and they were double conversion designs, with a first IF of 1600 kc and a second IF of either 100 kc or 85 kc (when using surplus ARC-5 IFTs.) The 1800 mc xtal you bought your dad was used for the second coversion osc. to convert the 1600 kc IF down to 100 kc. Many hams deviated from the exact original IF frequencies (i.e. strong local BC station on 1600 kc) which might explain why the xtal was chosen for 1800 kc instead of 1500 or 1700.

I'm gathering parts to build a more updated version, using half-lattice filters salvaged from Heath HR-10 receivers for a first IF at 1682 kc.

Pete

From -7971471224158039089
X-Google-Thread: fc2a5,d8f5c1e658b3c68d

```
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe14.iad.POSTED!a5a3f2a0!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
From: Robert casey <wa2ise@ix.netcom.com>
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-
bdd0-49eba484eef0@w35g2000yqm.googlegroups.com>
<QX3wl.67367$FI5.20197@newsfe07.iad>
Organization: wa2ise
Message-ID: <Xns9BD2BB30CC7EFwa2ise@69.16.185.252>
User-Agent: Xnews/5.04.25
Lines: 18
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Thu, 19 Mar 2009 01:24:06 UTC
Date: Thu, 19 Mar 2009 01:24:06 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2328



>
> The design used plug-in coils for the osc and rf stages, and
 they were double conversion designs, with a first IF of
 1600 kc and a second IF of either 100 kc or 85 kc (when
 using surplus ARC-5 IFTs.)  The 1800 mc xtal you bought
 your dad was used for the second coversion osc. to convert
 the 1600 kc IF down to 100 kc.  Many hams deviated from
 the exact original IF frequencies (i.e. strong local BC
 station on 1600 kc) which might explain why the xtal
> was chosen for 1800 kc instead of 1500 or 1700.
>

We have a local mid power station at 1600KHz, WWRL, at my parents' house,
so my father might have wanted to avoid problems with it.

His radio had a bandswitch instead of plug in coils, and he'd receive
various broadcast SW stations.  He wasn't a ham at the time just yet.



From 3964288322049994011
X-Google-Thread: fc2a5,d8f5c1e658b3c68d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!q18g2000vbn.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
Date: Wed, 18 Mar 2009 19:09:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 27
Message-ID: <9085826d-e72a-4cbe-9493-ff92406d552b@q18g2000vbn.googlegroups.com>
```

```
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-
bdd0-49eba484eef0@w35g2000yqm.googlegroups.com>
     <QX3wl.67367$FI5.20197@newsfe07.iad> <Xns9BD2BB30CC7EFwa2ise@69.16.185.252>
NNTP-Posting-Host: 165.254.211.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1237428556 16456 127.0.0.1 (19 Mar 2009 02:09:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 19 Mar 2009 02:09:16 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q18g2000vbn.googlegroups.com; posting-host=165.254.211.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2032

On Mar 18, 9:24=A0pm, Robert casey <wa2...@ix.netcom.com> wrote:
> > The design used plug-in coils for the osc and rf stages, and
>
> =A0they were double conversion designs, with a first IF of
> =A01600 kc and a second IF of either 100 kc or 85 kc (when
> =A0using surplus ARC-5 IFTs.) =A0The 1800 mc xtal you bought
> =A0your dad was used for the second coversion osc. to convert
> =A0the 1600 kc IF down to 100 kc. =A0Many hams deviated from
> =A0the exact original IF frequencies (i.e. strong local BC
> =A0station on 1600 kc) which might explain why the xtal
>
> > was chosen for 1800 kc instead of 1500 or 1700.
>
> We have a local mid power station at 1600KHz, WWRL, at my parents' house,
> so my father might have wanted to avoid problems with it.
>
> His radio had a bandswitch instead of plug in coils, and he'd receive
> various broadcast SW stations. =A0He wasn't a ham at the time just yet. =
=A0

I had a friend who was a retired engineer with GE turned TV tech who
built
one with a band switch and he later modified it to
be more of a general purpose SW receiver. His name was Olin Griggs.


Jimmie.



From -8799945860007234852
X-Google-Thread: fc2a5,3a78cb4828ccc76a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!
```

tmp-post01.iad!news.highwinds-media.com!not-for-mail
Date: Wed, 18 Mar 2009 22:50:02 -0400
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Nuvistor TV preamp mod
References: <b8ab8090-d338-4dfd-8857-6c49a4ec75a1@c36g2000yqn.googlegroups.com>
In-Reply-To: <b8ab8090-d338-4dfd-8857-6c49a4ec75a1@c36g2000yqn.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 24
Message-ID: <49c1b2d6$0$4955$9a6e19ea@unlimited.newshosting.com>
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
NNTP-Posting-Host: 70.121.205.178
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:2033

JIMMIE wrote:
> I have 3 mast mounted nuvistor pre amps less power supplies. I was
> looking for information on these to convert them to use on the 6 and 2
> meter and 70cm ham bands. I may still have a power supply around but
> as of yet I havent been able to find it. The pre amps are mount in a
> somewhat egg shaped plastic container with twin lead connections on
> them. Im not sure of the manufacturer. Schematics on the amplifiers
> and power supplies would be nice. Directions on doing the mod would be
> great. There are plans for ham band nuvistor preamps around so if I
> could figure out what I have it shouldnt be that difficult to conver
> it to what I want. Besides that it will give me something to do with
> these old 6cw4s.
>
>
> Jimmie

You would do good to find a 70's or earlier ARRL handbook. There were
many articles about Nuvistors.

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Use only Genuine Interocitor Parts" Tom Servo ;-P

From -6289601059202895300
X-Google-Thread: fc2a5,3a78cb4828ccc76a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!l16g2000yqo.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Re: Nuvistor TV preamp mod
Date: Thu, 19 Mar 2009 05:20:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <957da915-f5ac-40f5-b98c-b755b8cc4c35@l16g2000yqo.googlegroups.com>
References: <b8ab8090-d338-4dfd-8857-6c49a4ec75a1@c36g2000yqn.googlegroups.com>
     <49c1b2d6$0$4955$9a6e19ea@unlimited.newshosting.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1237465228 17696 127.0.0.1 (19 Mar 2009 12:20:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 19 Mar 2009 12:20:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l16g2000yqo.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2034
```

On Mar 18, 10:50=A0pm, RFI-EMI-GUY <Rhyol...@NETTALLY.COM> wrote:
> JIMMIE wrote:
> > I have 3 mast mounted nuvistor pre amps less power supplies. I was
> > looking for information on these to convert them to use on the 6 and 2
> > meter =A0and 70cm ham bands. I may still have a power supply around but
> > as of yet I havent been able to find it. The pre amps are mount in a
> > somewhat egg shaped plastic container with twin lead connections on
> > them. Im not sure of the manufacturer. Schematics on the amplifiers
> > and power supplies would be nice. Directions on doing the mod would be
> > great. There are plans for ham band nuvistor preamps around so if I
> > could figure out what I have it shouldnt be that difficult to conver
> > it to what I want. Besides that it will give me something to do with
> > these old 6cw4s.
>
> > Jimmie
>
> You would do good to find a 70's or earlier ARRL handbook. There were
> many articles about Nuvistors.
>
> --
> Joe Leikhim K4SAT
> "The RFI-EMI-GUY"=A9
>
> "Use only Genuine Interocitor Parts" Tom Servo =A0;-P

I used to have access to the handbooks of the 60s and early 70s. I
thought those were some of the best years. Im always on the lookout
for some but it seems a lot of other people share my opinion and dont
want to part with them.

Jimmie

From 1941630526076277939
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news1.google.com!newsfeed.stanford.edu!
newshub.sdsu.edu!flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!
prodigy.com!flpi107.ffdc.sbc.com!flpi149.ffdc.sbc.com.POSTED!ac3deb13!not-for-mail
From: Esther & Fester Bestertester <not@me.really>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C5CAB7D801F3517DB01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Hack a DTV antenna for dual directions?
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Reply-To: not@me.really
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-
ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
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bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
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<0vDp7kG2QRpJFwFL@g3ohx.demon.co.uk>
Lines: 6
NNTP-Posting-Host: 99.189.171.35
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi149.ffdc.sbc.com 1235581227 ST000 99.189.171.35 (Wed, 25 Feb 2009
12:00:27 EST)
NNTP-Posting-Date: Wed, 25 Feb 2009 12:00:27 EST
Organization: at&t http://my.att.net/
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Q[R_PJSCO@TARWDX]RKXOFTBTR\B@GXLN@GZ_GYO^JWTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Wed, 25 Feb 2009 08:54:48 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:8365
rec.radio.amateur.homebrew:1935 rec.radio.amateur.misc:3846

> I don't think there's anything wrong with the materials.

Wood is a great retainer of moisture (indeed it holds a great quantity of
water). Isn't this likely to electrically short (to some degree) the elements
and reduce gain or... ?

From -8229841592375899873

X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!newshub.sdsu.edu!flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!flpi149.ffdc.sbc.com.POSTED!ac3deb13!not-for-mail
From: Esther & Fester Bestertester <not@me.really>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C5CAB8AE01F3838FB01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Hack a DTV antenna for dual directions?
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Reply-To: not@me.really
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
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@CCB\[@LATPD\L@J\\PF]VR[QPJN
Date: Wed, 25 Feb 2009 08:58:22 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:8366
rec.radio.amateur.homebrew:1936 rec.radio.amateur.misc:3847

> Here in Britain it is illegal to 'tap' an individual's or
> organisation's/company's Wifi

Can you please take this to another thread of its own?

From -3891538044348880693
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet

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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 25 Feb 2009 14:08:04 -0600
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
<0001HW.C5C9D75201BEB22FB04379AF@news.sf.sbcglobal.net>
<OvDp7kG2QRpJFwFL@g3ohx.demon.co.uk>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Wed, 25 Feb 2009 11:34:58 -0800
Message-ID: <24jg76-b54.ln1@radagast.org>
Lines: 31
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NNTP-Posting-Host: 71.159.209.148
X-Trace: sv3-RPcsGgOe3jYJs2mQAKozkq74kj2fMjta33Ea2UPCbMK5BfqarRCLrM9cpYmAauQ/
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.antenna:10146
rec.radio.amateur.homebrew:2234 rec.radio.amateur.misc:4103
```

>I don't think there's anything wrong with the materials. It's basically
>a sound design. It's just that (unless I'm very much mistaken) the
>elements need be around a quarterwave in front of the reflector (more
>like 6 inches instead of the less than 2 inches shown)

I don't think that this is necessarily true. There are many valid antenna designs in which the reflector spacing varies quite a lot from 1/4 wavelength.

In Yagi designs, for instance, the spacing between driven element and reflector has a big effect on the antenna's feedpoint impedance, and is sometimes set to yield a convenient feedpoint impedance match with the cable. It doesn't have all that much effect on forward gain.

With a "sheet reflector" antenna design, I suspect that the reflector spacing won't have much effect on either forward gain or on front-to-back ratio. It's entirely possible that (in this design) it was set as it was in order to result in a not-intolerable impedance match over the relatively broad range of frequencies that this antenna needs to be able to cover.

>   and you need to
>mount the antenna 'in the clear', and point it towards the transmitter.

Yup, that's best.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From -7980304263943202894
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!newsp.newsguy.com!news1
From: Bill M <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Date: Wed, 25 Feb 2009 18:56:57 -0700
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 15
Message-ID: <go4ste01r2l@news1.newsguy.com>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com> <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com> <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net> <1uz374a3sHpJFwj5@g3ohx.demon.co.uk> <0001HW.C5C9D75201BEB22FB04379AF@news.sf.sbcglobal.net> <OvDp7kG2QRpJFwFL@g3ohx.demon.co.uk> <0001HW.C5CAB7D801F3517DB01AD9AF@news.sf.sbcglobal.net>
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Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
In-Reply-To: <0001HW.C5CAB7D801F3517DB01AD9AF@news.sf.sbcglobal.net>
Xref: g2news1.google.com rec.radio.amateur.antenna:8375 rec.radio.amateur.homebrew:1938 rec.radio.amateur.misc:3849

Esther & Fester Bestertester wrote:
>> I don't think there's anything wrong with the materials.
>
> Wood is a great retainer of moisture (indeed it holds a great quantity of
> water). Isn't this likely to electrically short (to some degree) the elements
> and reduce gain or... ?
>
No doubt, so I don't think a wooden antenna is the final solution. Best

check out how the scheme might work with scrap wood and coathangers and if that works then you could upgrade to finer materials for a more permanent solution that works in the rain.

On the other hand it may work well for you in spite of the loss in gain.

-Bill

```
From 3037997244750605246
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe17.iad.POSTED!7564ea0f!not-for-mail
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
     <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
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<i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net>
Subject: Re: Hack a DTV antenna for dual directions?
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <Oyopl.282$Rg3.263@newsfe17.iad>
NNTP-Posting-Host: 72.199.60.254
X-Complaints-To: newsmaster@cox.net
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Organization: Cox
Date: Wed, 25 Feb 2009 20:06:05 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:8376
rec.radio.amateur.homebrew:1939 rec.radio.amateur.misc:3850
```

"Highland Ham" <rfburns@allbands.net> wrote in message
news:i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net...

>
> If I had a neighbour close by I would be happy to share my connection.
>
> Frank GM0CSZ / KN6WH

Nice idea in theory, bad idea in practice, since you can't monitor his PC.
If something illegal goes on from his computer, your IP address will be
logged as the source.

I note a valid objection to this thread going OT and will not post on it
again.

From -510494858217270256
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 26 Feb 2009 06:08:37 -0600
Date: Thu, 26 Feb 2009 12:08:35 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-
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iMY0skqc8g==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39

Xref: g2news1.google.com rec.radio.amateur.antenna:8378
rec.radio.amateur.homebrew:1940 rec.radio.amateur.misc:3851

Bill M wrote:

> Esther & Fester Bestertester wrote:
>
>>> I don't think there's anything wrong with the materials.
>>
>>
>> Wood is a great retainer of moisture (indeed it holds a great quantity
>> of water). Isn't this likely to electrically short (to some degree)
>> the elements and reduce gain or... ?
>
> No doubt, so I don't think a wooden antenna is the final solution. Best
> check out how the scheme might work with scrap wood and coathangers and
> if that works then you could upgrade to finer materials for a more
> permanent solution that works in the rain.
>
> On the other hand it may work well for you in spite of the loss in gain.
>
> -Bill

That's what spar varnish is for. Metal booms with the uninsulated
elements going through are probably more "shorted" than from wet wood!
When aluminum is out in the rain, it's just as wet as wood would be.
The water may detune it slightly. Wood can be a great choice for boom
material (with proper varnishing)...it would probably outlast an
aluminum one in a salt air environment....

Scott
N0EDV

From -8577647610164962986
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
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X-Google-Language: ENGLISH,ASCII-7-bit
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From: dave <dave@dave.dave>
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MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
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Content-Transfer-Encoding: 7bit
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wJS8qjPYMFZKCmmGnJbUlvEZMmCEFJN6
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:8379
rec.radio.amateur.homebrew:1941 rec.radio.amateur.misc:3852

Sal M. Onella wrote:
> "Highland Ham" <rfburns@allbands.net> wrote in message
> news:i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net...
>
>
>> If I had a neighbour close by I would be happy to share my connection.
>>
>> Frank  GM0CSZ / KN6WH
>
> Nice idea in theory, bad idea in practice, since you can't monitor his PC.
> If something illegal goes on from his computer, your IP address will be
> logged as the source.
>
So?



From 7970555287838654084
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!v38g2000yqb.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Date: Thu, 26 Feb 2009 05:09:20 -0800 (PST)
Organization: http://groups.google.com
```

```
Lines: 36
Message-ID: <ec280372-769e-4aa4-bd5e-171e9dd4e177@v38g2000yqb.googlegroups.com>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
     <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
     <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-
bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
     <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
     <0001HW.C5C9D75201BEB22FB04379AF@news.sf.sbcglobal.net>
<OvDp7kG2QRpJFwFL@g3ohx.demon.co.uk>
     <0001HW.C5CAB7D801F3517DB01AD9AF@news.sf.sbcglobal.net>
<go4ste01r2l@news1.newsguy.com>
     <sfSdnS4J6tXYGzvUnZ2dnUVZ_uidnZ2d@bright.net>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1235653760 24155 127.0.0.1 (26 Feb 2009 13:09:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Feb 2009 13:09:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v38g2000yqb.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.antenna:8380
rec.radio.amateur.homebrew:1942 rec.radio.amateur.misc:3853

On Feb 26, 7:08=A0am, Scott <acepilotREM...@bloomer.net> wrote:
> Bill M wrote:
> > Esther & Fester Bestertester wrote:
>
> >>> I don't think there's anything wrong with the materials.
>
> >> Wood is a great retainer of moisture (indeed it holds a great quantity
> >> of water). Isn't this likely to electrically short (to some degree)
> >> the elements and reduce gain or... ?
>
> > No doubt, so I don't think a wooden antenna is the final solution. =A0B=
est
> > check out how the scheme might work with scrap wood and coathangers and
> > if that works then you could upgrade to finer materials for a more
> > permanent solution that works in the rain.
>
> > On the other hand it may work well for you in spite of the loss in gain=
.
>
> > -Bill
>
> That's what spar varnish is for. =A0Metal booms with the uninsulated
> elements going through are probably more "shorted" than from wet wood!
> When aluminum is out in the rain, it's just as wet as wood would be.
```

> The water may detune it slightly. =A0Wood can be a great choice for boom
> material (with proper varnishing)...it would probably outlast an
> aluminum one in a salt air environment....
>
> Scott
> N0EDV- Hide quoted text -
>
> - Show quoted text -

In this case the wood is being used as the feedpoint insulator.

Jimmie

```
From 7607256308631975225
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!newshub.sdsu.edu!
news.astraweb.com!border2.newsrouter.astraweb.com!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi070.nbdc.sbc.com.POSTED!ac3deb13!not-for-mail
From: Esther & Fester Bestertester <not@me.really>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C5CC07F70036DC69B01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Hack a DTV antenna for dual directions?
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Reply-To: not@me.really
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-
ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-
bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk> <d36b413a-da35-430c-b8c2-
a34816a62fce@v19g2000yqn.googlegroups.com>
<i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
<3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
Lines: 9
NNTP-Posting-Host: 99.189.171.35
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi070.nbdc.sbc.com 1235666935 ST000 99.189.171.35 (Thu, 26 Feb 2009
11:48:55 EST)
NNTP-Posting-Date: Thu, 26 Feb 2009 11:48:55 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
SCSYQN_@FS@CRRDYEZO@OQTDEB\@PD\MNPWZKB]MPXHTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
```

```
Date: Thu, 26 Feb 2009 08:48:55 -0800
Xref: g2news2.google.com rec.radio.amateur.antenna:10160
rec.radio.amateur.homebrew:2240 rec.radio.amateur.misc:4109
```

>> Nice idea in theory, bad idea in practice, since you can't monitor his PC.
>> If something illegal goes on from his computer, your IP address will be
>> logged as the source.

> So?

Can you please take this to another thread of its own?

```
From -4288044052041637884
X-Google-Thread: fc2a5,1e65b0ccc004e66d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!33g2000yqm.googlegroups.com!not-for-
mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Smith Chart Tutorial
Date: Thu, 26 Feb 2009 12:01:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 33
Message-ID: <07a12625-a883-4f7b-a3fd-299fdf5d2d3f@33g2000yqm.googlegroups.com>
References: <805d5ff2-47da-44b1-a987-151dc2ffef55@13g2000yql.googlegroups.com>
NNTP-Posting-Host: 125.237.177.159
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1235678488 7655 127.0.0.1 (26 Feb 2009 20:01:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Feb 2009 20:01:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 33g2000yqm.googlegroups.com; posting-host=125.237.177.159;
     posting-account=TfKoOgkAAABQzW2yM8tZrYe8S04m-wqP
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB5; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2241
```

Hi Brent,

This is actually very good, well done.

If it could be made available as a stand alone application you are
heading towards a very useful educational tool.

I would prefer not to have the animated aircraft, but otherwise
excellent.

-Mark

On Feb 24, 2:09=A0pm, buleg...@columbus.rr.com wrote:
> Hi,
>
> I have created a Smith Chart Tutorial located here:
>
> http://www.fourier-series.com/rf-concepts/smithchart.html
>
> It is comprised of flash programs with embedded audio. =A0It allows you
> to learn the smith chart through the interactive nature of the flash
> program.
>
> I The tutorial explains the smith chart, allows for
> capacitive/inductive matching and introduces how a transmision line
> affects the reflection coefficient and how to use transmission line
> stubs as matching elements.
>
> Good Luck with this
>
> Brent

From -2427979589363257986
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe13.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-
ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-
bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
<0001HW.C5C9D75201BEB22FB04379AF@news.sf.sbcglobal.net>
<OvDp7kG2QRpJFwFL@g3ohx.demon.co.uk>
<0001HW.C5CAB7D801F3517DB01AD9AF@news.sf.sbcglobal.net>
<go4ste01r2l@news1.newsguy.com>
Subject: Re: Hack a DTV antenna for dual directions?
Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512

```
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <rDFpl.2157$Tp5.1918@newsfe13.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe13.iad 1235691095 68.229.77.6 (Thu, 26 Feb 2009 23:31:35 UTC)
NNTP-Posting-Date: Thu, 26 Feb 2009 23:31:35 UTC
Organization: Cox
Date: Thu, 26 Feb 2009 18:31:22 -0500
Xref: g2news2.google.com rec.radio.amateur.antenna:10166
rec.radio.amateur.homebrew:2242 rec.radio.amateur.misc:4112
```

"Bill M" <radioexray@geeemail.com> wrote in message
news:go4ste01r2l@news1.newsguy.com...

> \>> No doubt, so I don't think a wooden antenna is the final solution.
> Best check out how the scheme might work with scrap wood and coathangers
> and if that works then you could upgrade to finer materials for a more
> permanent solution that works in the rain.
>
> On the other hand it may work well for you in spite of the loss in gain.
>
> -Bill

Wood is fine, it has been used for UHF colinears for decades....
The trick is to have the elements supported (in contact with
wood) at the low voltage,
high current points. CC made a colinear back in the 60s
that used good insulators, but had them on the high voltage
points, which affected the antenna's performance.

Pete

```
From -3356715595064124278
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe24.iad.POSTED!7564ea0f!not-for-mail
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
     <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
     <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-
bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
```

<1uz374a3sHpJFwj5@g3ohx.demon.co.uk> <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
<i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
<3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
Subject: Sharing Internet Connection
Lines: 37
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <QpLpl.36525$g63.20199@newsfe24.iad>
NNTP-Posting-Host: 72.199.60.254
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe24.iad 1235714800 72.199.60.254 (Fri, 27 Feb 2009 06:06:40 UTC)
NNTP-Posting-Date: Fri, 27 Feb 2009 06:06:40 UTC
Organization: Cox
Date: Thu, 26 Feb 2009 22:06:40 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:8391 rec.radio.amateur.homebrew:1946 rec.radio.amateur.misc:3858

"dave" <dave@dave.dave> wrote in message
news:3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com...

which was OT in thread "Hack a DTV antenna for dual directions?"

> > "Highland Ham" <rfburns@allbands.net> wrote in message
> > news:i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net...
> >
> >
> >> If I had a neighbour close by I would be happy to share my connection.
> >>
> >> Frank GM0CSZ / KN6WH
> >
> > Nice idea in theory, bad idea in practice, since you can't monitor his PC.
> > If something illegal goes on from his computer, your IP address will be
> > logged as the source.
> >
> So?

Criminal penalties apply to computer crimes that could be committed via such a shared connection. Notable are the downloading of child pornography (a five-year federal felony in the US) and the misuse of a "zombie" computer for conducting a distributed denial-of-service attack or for sending spam.

In these and other computer crimes, the shared connection is via the subscriber's IP, no matter where the misused computer is located -- in the house, in the barn, in the street, next door, etc. The authorities want to talk to YOU!

Even if the person with whom you share your connection is a model citizen, you still face a risk of misuse out of his sight.

I hope I've made my viewpoint clear.

From 431356357450678549
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!newshub.sdsu.edu!
flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!nlpi070.nbdc.sbc.com.POSTED!ac3deb13!not-for-mail
From: Esther & Fester Bestertester <not@me.really>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Sharing Internet Connection
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Reply-To: not@me.really
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-
ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-
bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk> <d36b413a-da35-430c-b8c2-
a34816a62fce@v19g2000yqn.googlegroups.com>
<i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
<3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
<QpLpl.36525$g63.20199@newsfe24.iad>
Lines: 4
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X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi070.nbdc.sbc.com 1235718604 ST000 99.189.171.35 (Fri, 27 Feb 2009
02:10:04 EST)
NNTP-Posting-Date: Fri, 27 Feb 2009 02:10:04 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
OH[AR_KDFRVOBFH[OZK@_TDAYZOZ@GXOXB_J]Q]KEYUNDQUCCNSUAACY@L[ZX__HGFD]JBJNSFXTOOGA_V
WY^_HG@FW_HUTHOH]TBPGCO\P^PLP^@[GLHUK@WLECKFVL^TYG[@RMWQXIWM[SDDYWNLG_G[_BWUCHFY_Y
@AS@Q[B\APPF@DCZM_PG_VSCPQZM
Date: Thu, 26 Feb 2009 23:10:04 -0800
Xref: g2news2.google.com rec.radio.amateur.antenna:10170
rec.radio.amateur.homebrew:2244 rec.radio.amateur.misc:4114

> I hope I've made my viewpoint clear.

Can you please take this to another thread of its own?

```
From 7732189973604286272
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-
online.de!feeder.news-service.com!xlned.com!feeder3.xlned.com!news2.euro.net!
newsgate.cistron.nl!newsgate.news.xs4all.nl!194.109.133.81.MISMATCH!
newsfeed.xs4all.nl!newsfeed2.news.xs4all.nl!xs4all!post.news.xs4all.nl!not-for-
mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
From: Rob <nomail@example.com>
Subject: Re: Sharing Internet Connection
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
 <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
 <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
 <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
 <1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
 <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
 <i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net>
 <Oyopl.282$Rg3.263@newsfe17.iad>
 <3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
 <QpLpl.36525$g63.20199@newsfe24.iad>
 <0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
User-Agent: slrn/pre0.9.9-102 (FreeBSD)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrngqf939.1rqr.nomail@xs7.xs4all.nl>
Date: 27 Feb 2009 08:29:29 GMT
Lines: 7
NNTP-Posting-Host: 194.109.21.7
X-Trace: 1235723369 news.xs4all.nl 190 [::ffff:194.109.21.7]:54655
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.antenna:8393
rec.radio.amateur.homebrew:1948 rec.radio.amateur.misc:3860
```

Esther & Fester Bestertester <not@me.really> wrote:

>> I hope I've made my viewpoint clear.
>
> Can you please take this to another thread of its own?

Again??? What do you want?
It has been taken to another thread and still you repeat your comment.

```
From -2189892049282149679
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!newshub.sdsu.edu!
flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!nlpi070.nbdc.sbc.com.POSTED!ac3deb13!not-for-mail
From: Esther & Fester Bestertester <not@me.really>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C5CCE8A9006B85F9B01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Sharing Internet Connection
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Reply-To: not@me.really
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-
ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-
bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk> <d36b413a-da35-430c-b8c2-
a34816a62fce@v19g2000yqn.googlegroups.com>
<i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
<3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
<QpLpl.36525$g63.20199@newsfe24.iad>
<0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
<slrngqf939.1rqr.nomail@xs7.xs4all.nl>
Lines: 12
NNTP-Posting-Host: 99.189.171.35
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi070.nbdc.sbc.com 1235724457 ST000 99.189.171.35 (Fri, 27 Feb 2009
03:47:37 EST)
NNTP-Posting-Date: Fri, 27 Feb 2009 03:47:37 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
SCSYQN_@O@TARWDX]RKXOFTBTR\B@GXLN@GZ_GYO^ZUDUWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
TINTDDMVW[X\THOPXZRVOCJTUTPC\_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Fri, 27 Feb 2009 00:47:37 -0800
Xref: g2news2.google.com rec.radio.amateur.antenna:10172
rec.radio.amateur.homebrew:2246 rec.radio.amateur.misc:4116
```

> Again??? What do you want?

Relax...

There have been 4 OT posts. Each poster apparently needs a little help...

> It has been taken to another thread and still you repeat your comment.

Can you please take this to another thread of its own?

(Sorry, I couldn't resist.)

From -8792520440268013366
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.buerger.net!
aioe.org!ianREMOVETHISjackson
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Sharing Internet Connection
Date: Fri, 27 Feb 2009 08:49:41 +0000
Organization: Aioe.org NNTP Server
Lines: 15
Message-ID: <z0XW9BGlk6pJFwzc@g3ohx.demon.co.uk>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
<ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
<1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
<d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
<i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
<3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
<QpLpl.36525$g63.20199@newsfe24.iad>
<0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
<slrngqf939.1rqr.nomail@xs7.xs4all.nl>
NNTP-Posting-Host: 8ScIRg/PZPLSC4RDtCvRow.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Fri, 27 Feb 2009 08:49:25 +0000 (UTC)
X-Notice: Filtered by postfilter v. 0.7.7
Cancel-Lock: sha1:NKFYNfGy8hQhRozw616VdSfU2Dk=
User-Agent: Turnpike/6.06-S (<XNYqW6PbKPT04PCjmBMoeAlQRL>)
Xref: g2news2.google.com rec.radio.amateur.antenna:10173
rec.radio.amateur.homebrew:2247 rec.radio.amateur.misc:4117

In message <slrngqf939.1rqr.nomail@xs7.xs4all.nl>, Rob
<nomail@example.com> writes
>Esther & Fester Bestertester <not@me.really> wrote:
>>> I hope I've made my viewpoint clear.
>>
>> Can you please take this to another thread of its own?

>
>Again??? What do you want?
>It has been taken to another thread and still you repeat your comment.

No it hasn't. The original thread, 'Hack a DTV antenna for dual
directions?' has been hijacked, and changed to 'Sharing Internet
Connection'.
--
Ian

```
From 8247216743738174429
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!
news2.euro.net!newsgate.cistron.nl!newsgate.news.xs4all.nl!xs4all!
post.news.xs4all.nl!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
From: Rob <nomail@example.com>
Subject: Re: Sharing Internet Connection
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
 <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
 <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
 <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
 <1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
 <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
 <i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net>
 <Oyopl.282$Rg3.263@newsfe17.iad>
 <3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
 <QpLpl.36525$g63.20199@newsfe24.iad>
 <0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
 <slrngqf939.1rqr.nomail@xs7.xs4all.nl>
 <0001HW.C5CCE8A9006B85F9B01AD9AF@news.sf.sbcglobal.net>
User-Agent: slrn/pre0.9.9-102 (FreeBSD)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrngqfacb.1rqr.nomail@xs7.xs4all.nl>
Date: 27 Feb 2009 08:51:24 GMT
Lines: 10
NNTP-Posting-Host: 194.109.21.7
X-Trace: 1235724684 news.xs4all.nl 190 [::ffff:194.109.21.7]:54655
X-Complaints-To: abuse@xs4all.nl
Xref: g2news2.google.com rec.radio.amateur.antenna:10174
rec.radio.amateur.homebrew:2248 rec.radio.amateur.misc:4118
```

Esther & Fester Bestertester <not@me.really> wrote:

>> Again??? What do you want?
>
> Relax...
>
> There have been 4 OT posts. Each poster apparently needs a little help...

You have been replying "take it to another thread" on a post that already
has changed the subject.
When you don't consider that another thread, pity for you.

From 456850046550312516
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!newsfeed.kpn.net!pfeed08.wxs.nl!newsfeed.xs4all.nl!newsfeed6.news.xs4all.nl!xs4all!post.news.xs4all.nl!not-for-mail
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
From: Rob <nomail@example.com>
Subject: Re: Sharing Internet Connection
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
 <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
 <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
 <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
 <1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
 <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
 <i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net>
 <Oyopl.282$Rg3.263@newsfe17.iad>
 <3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
 <QpLpl.36525$g63.20199@newsfe24.iad>
 <0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
 <slrngqf939.1rqr.nomail@xs7.xs4all.nl> <z0XW9BGlk6pJFwzc@g3ohx.demon.co.uk>
User-Agent: slrn/pre0.9.9-102 (FreeBSD)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrngqfah4.1rqr.nomail@xs7.xs4all.nl>
Date: 27 Feb 2009 08:53:56 GMT
Lines: 18
NNTP-Posting-Host: 194.109.21.7
X-Trace: 1235724836 news.xs4all.nl 190 [::ffff:194.109.21.7]:54655
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.antenna:8397 rec.radio.amateur.homebrew:1952 rec.radio.amateur.misc:3864

Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
> In message <slrngqf939.1rqr.nomail@xs7.xs4all.nl>, Rob
> <nomail@example.com> writes

```
>>Esther & Fester Bestertester <not@me.really> wrote:
>>>> I hope I've made my viewpoint clear.
>>>
>>> Can you please take this to another thread of its own?
>>
>>Again???  What do you want?
>>It has been taken to another thread and still you repeat your comment.
>
> No it hasn't. The original thread, 'Hack a DTV antenna for dual
> directions?' has been hijacked, and changed  to 'Sharing Internet
> Connection'.
```

So now it is a new thread "Sharing Internet Connection". That is
what was requested. No need to put more comments about changing thread
into there.

```
From -8547439693858544061
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!feed-
me.highwinds-media.com!cyclone02.ams2.highwinds-media.com!news.highwinds-
media.com!npeersf02.ams.highwinds-media.com!newsfe29.ams2.POSTED!7564ea0f!not-for-
mail
Message-ID: <6UEUF5Hrz6pJFwQ7@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Hijacking Newsgroup Threads
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
 <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
 <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
 <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
 <1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
 <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
 <i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
 <3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
 <QpLpl.36525$g63.20199@newsfe24.iad>
 <0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
 <slrngqf939.1rqr.nomail@xs7.xs4all.nl> <z0XW9BGlk6pJFwzc@g3ohx.demon.co.uk>
 <slrngqfah4.1rqr.nomail@xs7.xs4all.nl>
Lines: 25
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.06-S (<XCaqWGP7KPTwWPCjOBBoeAZYQR>)
NNTP-Posting-Host: 80.176.138.122
X-Complaints-To: abuse@demon.net
X-Trace: newsfe29.ams2 1235725553 80.176.138.122 (Fri, 27 Feb 2009 09:05:53 UTC)
NNTP-Posting-Date: Fri, 27 Feb 2009 09:05:53 UTC
```

```
Date: Fri, 27 Feb 2009 09:05:47 +0000
Xref: g2news2.google.com rec.radio.amateur.antenna:10176
rec.radio.amateur.homebrew:2250 rec.radio.amateur.misc:4120

In message <slrngqfah4.1rqr.nomail@xs7.xs4all.nl>, Rob
<nomail@example.com> writes
>Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>> In message <slrngqf939.1rqr.nomail@xs7.xs4all.nl>, Rob
>> <nomail@example.com> writes
>>>Esther & Fester Bestertester <not@me.really> wrote:
>>>>> I hope I've made my viewpoint clear.
>>>>
>>>> Can you please take this to another thread of its own?
>>>
>>>Again???  What do you want?
>>>It has been taken to another thread and still you repeat your comment.
>>
>> No it hasn't. The original thread, 'Hack a DTV antenna for dual
>> directions?' has been hijacked, and changed  to 'Sharing Internet
>> Connection'.
>
>So now it is a new thread "Sharing Internet Connection".  That is
>what was requested.  No need to put more comments about changing thread
>into there.

Don't you absolutely hate people who hijack threads by changing the
subject?
--
Ian



From -2353055791107782300
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!xlned.com!
feeder3.xlned.com!news2.euro.net!newsgate.cistron.nl!newsgate.news.xs4all.nl!
194.109.133.82.MISMATCH!newsfeed.xs4all.nl!newsfeed3.news.xs4all.nl!xs4all!
post.news.xs4all.nl!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
From: Rob <nomail@example.com>
Subject: Re: Hijacking Newsgroup Threads
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
 <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
 <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
 <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
 <1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
 <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
 <i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net>
 <Oyopl.282$Rg3.263@newsfe17.iad>
 <3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
 <QpLpl.36525$g63.20199@newsfe24.iad>
 <0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
 <slrngqf939.1rqr.nomail@xs7.xs4all.nl> <z0XW9BGlk6pJFwzc@g3ohx.demon.co.uk>
 <slrngqfah4.1rqr.nomail@xs7.xs4all.nl> <6UEUF5Hrz6pJFwQ7@g3ohx.demon.co.uk>
User-Agent: slrn/pre0.9.9-102 (FreeBSD)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrngqfdn3.1thn.nomail@xs7.xs4all.nl>
Date: 27 Feb 2009 09:48:19 GMT
Lines: 26
NNTP-Posting-Host: 194.109.21.7
X-Trace: 1235728099 news.xs4all.nl 182 [::ffff:194.109.21.7]:57450
X-Complaints-To: abuse@xs4all.nl
Xref: g2news2.google.com rec.radio.amateur.antenna:10177
rec.radio.amateur.homebrew:2251 rec.radio.amateur.misc:4121

Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
> In message <slrngqfah4.1rqr.nomail@xs7.xs4all.nl>, Rob
> <nomail@example.com> writes
>>Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>>> In message <slrngqf939.1rqr.nomail@xs7.xs4all.nl>, Rob
>>> <nomail@example.com> writes
>>>>Esther & Fester Bestertester <not@me.really> wrote:
>>>>>> I hope I've made my viewpoint clear.
>>>>>
>>>>> Can you please take this to another thread of its own?
>>>>
>>>>Again???  What do you want?
>>>>It has been taken to another thread and still you repeat your comment.
>>>
>>> No it hasn't. The original thread, 'Hack a DTV antenna for dual
>>> directions?' has been hijacked, and changed  to 'Sharing Internet
>>> Connection'.
>>
>>So now it is a new thread "Sharing Internet Connection".  That is
>>what was requested.  No need to put more comments about changing thread
>>into there.
>
> Don't you absolutely hate people who hijack threads by changing the
> subject?

Get a newsreader that threads by subject, and be done with it.


From 4213228096771005632
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news1.google.com!news2.google.com!news1.google.com!npeer01.iad.highwinds-
media.com!feed-me.highwinds-media.com!cyclone01.ams2.highwinds-media.com!
news.highwinds-media.com!npeersf01.ams.highwinds-media.com!newsfe29.ams2.POSTED!
7564ea0f!not-for-mail
Message-ID: <aHBsRMM+u7pJFwli@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Newsreaders that thread by subject
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
 <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
 <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
 <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
 <1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
 <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
 <i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
 <3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
 <QpLpl.36525$g63.20199@newsfe24.iad>
 <0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
 <slrngqf939.1rqr.nomail@xs7.xs4all.nl> <z0XW9BGlk6pJFwzc@g3ohx.demon.co.uk>
 <slrngqfah4.1rqr.nomail@xs7.xs4all.nl> <6UEUF5Hrz6pJFwQ7@g3ohx.demon.co.uk>
 <slrngqfdn3.1thn.nomail@xs7.xs4all.nl>
Lines: 41
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.06-S (<XFcqWafbKPT1YPCj2BEoeAFAgm>)
NNTP-Posting-Host: 80.176.138.122
X-Complaints-To: abuse@demon.net
X-Trace: newsfe29.ams2 1235729347 80.176.138.122 (Fri, 27 Feb 2009 10:09:07 UTC)
NNTP-Posting-Date: Fri, 27 Feb 2009 10:09:07 UTC
Date: Fri, 27 Feb 2009 10:09:02 +0000
Xref: g2news1.google.com rec.radio.amateur.antenna:8400
rec.radio.amateur.homebrew:1955 rec.radio.amateur.misc:3867

In message <slrngqfdn3.1thn.nomail@xs7.xs4all.nl>, Rob
<nomail@example.com> writes
>Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>> In message <slrngqfah4.1rqr.nomail@xs7.xs4all.nl>, Rob
>> <nomail@example.com> writes
>>>Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>>>> In message <slrngqf939.1rqr.nomail@xs7.xs4all.nl>, Rob
>>>> <nomail@example.com> writes
>>>>>Esther & Fester Bestertester <not@me.really> wrote:
>>>>>>> I hope I've made my viewpoint clear.
>>>>>>
>>>>>> Can you please take this to another thread of its own?
>>>>>
>>>>>Again???  What do you want?
>>>>>It has been taken to another thread and still you repeat your comment.
>>>>
>>>> No it hasn't. The original thread, 'Hack a DTV antenna for dual
>>>> directions?' has been hijacked, and changed  to 'Sharing Internet
```

```
>>>> Connection'.
>>>
>>>So now it is a new thread "Sharing Internet Connection".  That is
>>>what was requested.  No need to put more comments about changing thread
>>>into there.
>>
>> Don't you absolutely hate people who hijack threads by changing the
>> subject?
>
>Get a newsreader that threads by subject, and be done with it.

I thought that mine did!

When the tree is collapsed, the subject is 'Hack a DTV antenna for dual
directions?' It's only when you expand it, and look 66 postings down the
tree, that you find that some idiot has changed the subject to
'Newsreaders that thread by subject'

Are there any news readers which allow you to rearrange news posts,
which have already been received, into a separate, new thread, and then
have further incoming posts automatically routed there?
--
Ian



From 1735041752020453412
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.brightview.com!news.brightview.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 27 Feb 2009 04:13:49 -0600
From: HighlandObserver@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hijacking Newsgroup Threads
Date: Fri, 27 Feb 2009 10:13:49 +0000
Sender: HighlandObserver@gmail.com
Reply-To: HighlandObserver@gmail.com
Message-ID: <96ffq4hul44eh0rfc4gp12ilv6ouq8bk65@4ax.com>
References: <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
<i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
<3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
<QpLpl.36525$g63.20199@newsfe24.iad>
<0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
<slrngqf939.1rqr.nomail@xs7.xs4all.nl> <z0XW9BGlk6pJFwzc@g3ohx.demon.co.uk>
<slrngqfah4.1rqr.nomail@xs7.xs4all.nl> <6UEUF5Hrz6pJFwQ7@g3ohx.demon.co.uk>
<slrngqfdn3.1thn.nomail@xs7.xs4all.nl>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 5
```

```
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 194.105.190.17
X-Trace: sv3-ueo5KamlLt0yNIO2p78YT/
uSDLUbRELeOQLhj4aLd4XruJgKr2ocvW8p5WQ9Z6Fdac95v+RdH8sTLnd!
OlGYCeHmWzFVUepzrdt0JtZkc6Nrx0KM4yi0bEGj0AgeHxLD/xQtr4Q2M0/if1M5ZkSSsJP4t0rn!
n2cvk3iJXZO7Wp6ehjjBeOzzYyKkn6hhB4h5lJ79chzk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1956

On 27 Feb 2009 09:48:19 GMT, Rob <nomail@example.com> wrote:

>Get a newsreader that threads by subject, and be done with it.

Get a GSOH



From 3670829622259065738
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!news2.euro.net!
newsgate.cistron.nl!newsgate.news.xs4all.nl!194.109.133.81.MISMATCH!
newsfeed.xs4all.nl!newsfeed2.news.xs4all.nl!xs4all!post.news.xs4all.nl!not-for-
mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
From: Rob <nomail@example.com>
Subject: Re: Newsreaders that thread by subject
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
 <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
 <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
 <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
 <1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
 <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
 <i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net>
 <Oyopl.282$Rg3.263@newsfe17.iad>
 <3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
 <QpLpl.36525$g63.20199@newsfe24.iad>
 <0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
 <slrngqf939.1rqr.nomail@xs7.xs4all.nl> <z0XW9BGlk6pJFwzc@g3ohx.demon.co.uk>
 <slrngqfah4.1rqr.nomail@xs7.xs4all.nl> <6UEUF5Hrz6pJFwQ7@g3ohx.demon.co.uk>
 <slrngqfdn3.1thn.nomail@xs7.xs4all.nl> <aHBsRMM+u7pJFwli@g3ohx.demon.co.uk>
User-Agent: slrn/pre0.9.9-102 (FreeBSD)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrngqfg1f.1ulv.nomail@xs7.xs4all.nl>
```

```
Date: 27 Feb 2009 10:27:59 GMT
Lines: 7
NNTP-Posting-Host: 194.109.21.7
X-Trace: 1235730479 news.xs4all.nl 201 [::ffff:194.109.21.7]:64448
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.antenna:8401
rec.radio.amateur.homebrew:1957 rec.radio.amateur.misc:3868

Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
> Are there any news readers which allow you to rearrange news posts,
> which have already been received, into a separate, new thread, and then
> have further incoming posts automatically routed there?

My newsreader, slrn, does just that.  It is starting a new thread at
toplevel everytime you change the subject.



From 2050427578411603697
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!
69.16.177.246.MISMATCH!cyclone03.ams2.highwinds-media.com!news.highwinds-
media.com!npeersf02.ams.highwinds-media.com!newsfe07.ams2.POSTED!7564ea0f!not-for-
mail
Message-ID: <vh0EqlN6S8pJFwQn@ntlworld.com>
From: Ian Wade <g3nrw@yahoo.co.uk>
Sender: g3nrw@yahoo.co.uk
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Newsreaders that thread by subject
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
 <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
 <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
 <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
 <1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
 <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
 <i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
 <3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
 <QpLpl.36525$g63.20199@newsfe24.iad>
 <0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
 <slrngqf939.1rqr.nomail@xs7.xs4all.nl> <z0XW9BGlk6pJFwzc@g3ohx.demon.co.uk>
 <slrngqfah4.1rqr.nomail@xs7.xs4all.nl> <6UEUF5Hrz6pJFwQ7@g3ohx.demon.co.uk>
 <slrngqfdn3.1thn.nomail@xs7.xs4all.nl> <aHBsRMM+u7pJFwli@g3ohx.demon.co.uk>
 <slrngqfg1f.1ulv.nomail@xs7.xs4all.nl>
Lines: 46
Organization: None
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii
```

User-Agent: Turnpike/6.02-U (<Lk0q1Sj1GvJmS5jLpLcX4s4JBW>)
NNTP-Posting-Host: 82.7.40.167
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe07.ams2 1235731714 82.7.40.167 (Fri, 27 Feb 2009 10:48:34 UTC)
NNTP-Posting-Date: Fri, 27 Feb 2009 10:48:34 UTC
Date: Fri, 27 Feb 2009 10:47:22 +0000
Xref: g2news1.google.com rec.radio.amateur.antenna:8402
rec.radio.amateur.homebrew:1958 rec.radio.amateur.misc:3869

From: Rob <nomail@example.com>
Date: Fri, 27 Feb 2009   Time: 10:27:59

>Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>> Are there any news readers which allow you to rearrange news posts,
>> which have already been received, into a separate, new thread, and then
>> have further incoming posts automatically routed there?
>
>My newsreader, slrn, does just that. It is starting a new thread at
>toplevel everytime you change the subject.

Your newsreader is broken -- it doesn't understand threads. Here are all
the contributors to the "Hack a DTV antenna for dual directions?"
thread:

```
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
 <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
 <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
 <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
 <1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
 <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
 <i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net>
 <Oyopl.282$Rg3.263@newsfe17.iad>
 <3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
 <QpLpl.36525$g63.20199@newsfe24.iad>
 <0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
 <slrngqf939.1rqr.nomail@xs7.xs4all.nl>
<z0XW9BGlk6pJFwzc@g3ohx.demon.co.uk>
 <slrngqfah4.1rqr.nomail@xs7.xs4all.nl>
<6UEUF5Hrz6pJFwQ7@g3ohx.demon.co.uk>
 <slrngqfdn3.1thn.nomail@xs7.xs4all.nl>
<aHBsRMM+u7pJFwli@g3ohx.demon.co.uk>
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

They are all in the *same* thread, even though a couple people changed
the Subject on the way.

In the world of Usenet groups, changing the Subject line does *not*
start a new thread.

--
73

Ian, G3NRW

```
From -7421755813073375449
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 27 Feb 2009 05:12:30 -0600
Date: Fri, 27 Feb 2009 11:12:29 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Sharing Internet Connection
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
     <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
     <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-
bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk> <d36b413a-da35-430c-b8c2-
a34816a62fce@v19g2000yqn.googlegroups.com>
<i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
<3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
<QpLpl.36525$g63.20199@newsfe24.iad>
In-Reply-To: <QpLpl.36525$g63.20199@newsfe24.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <XMydnYUINNcDVzrUnZ2dnUVZ8omWnZ2d@pipex.net>
Lines: 39
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.71.168
X-Trace: sv3-3q8nip0OTbXd7WtKyJp2dLgizd7N8M26hklP7pCDkW07yZTMXMaL0F1riNW+FKOC1l/
3Q80tESR2uoo!AAOK011ChvNZWl/KvO/9cSSjkI2HV+wCzGBflPPej4cZSOR7GFZ3Kk4tY5SNwz/
MImaBkDC4+UdN!2Scwx2es6camBBobOQvOFa853w==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.antenna:10181
rec.radio.amateur.homebrew:2256 rec.radio.amateur.misc:4125
```

Sal M. Onella wrote:
> "dave" <dave@dave.dave> wrote in message
> news:3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com...

```
>
> which was OT in thread "Hack a DTV antenna for dual directions?"
>
>>> "Highland Ham" <rfburns@allbands.net> wrote in message
>>> news:i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net...
>>>
>>>
>>>> If I had a neighbour close by I would be happy to share my connection.
>>>>
>>>> Frank  GM0CSZ / KN6WH
>>> Nice idea in theory, bad idea in practice, since you can't monitor his
> PC.
>>> If something illegal goes on from his computer, your IP address will be
>>> logged as the source.
>>>
>> So?
>
> Criminal penalties apply to computer crimes that could be committed via such
> a shared connection.  Notable are the downloading of child pornography (a
> five-year federal felony in the US) and the misuse of a "zombie" computer
> for conducting a distributed denial-of-service attack or for sending spam.
>
> In these and other computer crimes, the shared connection is via the
> subscriber's IP,  no matter where the misused computer is located -- in the
> house, in the barn, in the street, next door, etc.  The authorities want to
> talk to YOU!
>
> Even if the person with whom you  share your connection is a model citizen,
> you still face a risk of misuse out of his sight.
>
> I hope I've made my viewpoint clear.
=====================
Indeed you have. In the end it all boils down to : Trust thy neigbour.
Also ,there is no life without risk.

Frank     GM0CSZ / KN6WH



From -1260788871817663552
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!feed-
me.highwinds-media.com!cyclone02.ams2.highwinds-media.com!news.highwinds-
media.com!npeersf02.ams.highwinds-media.com!newsfe24.ams2.POSTED!7564ea0f!not-for-
mail
Message-ID: <9m01JVWov8pJFwyV@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Newsreaders that thread by subject
```

```
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
 <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
 <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
 <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
 <1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
 <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
 <i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
 <3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
 <QpLpl.36525$g63.20199@newsfe24.iad>
 <0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
 <slrngqf939.1rqr.nomail@xs7.xs4all.nl> <z0XW9BGlk6pJFwzc@g3ohx.demon.co.uk>
 <slrngqfah4.1rqr.nomail@xs7.xs4all.nl> <6UEUF5Hrz6pJFwQ7@g3ohx.demon.co.uk>
 <slrngqfdn3.1thn.nomail@xs7.xs4all.nl> <aHBsRMM+u7pJFwli@g3ohx.demon.co.uk>
 <slrngqfg1f.1ulv.nomail@xs7.xs4all.nl> <vh0EqlN6S8pJFwQn@ntlworld.com>
Lines: 12
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.06-S (<XCaqWGP7KPTwWPCjOBBoeAZYQR>)
NNTP-Posting-Host: 80.176.138.122
X-Complaints-To: abuse@demon.net
X-Trace: newsfe24.ams2 1235733486 80.176.138.122 (Fri, 27 Feb 2009 11:18:06 UTC)
NNTP-Posting-Date: Fri, 27 Feb 2009 11:18:06 UTC
Date: Fri, 27 Feb 2009 11:18:00 +0000
Xref: g2news2.google.com rec.radio.amateur.antenna:10182
rec.radio.amateur.homebrew:2257 rec.radio.amateur.misc:4126

In message <vh0EqlN6S8pJFwQn@ntlworld.com>, Ian Wade <g3nrw@yahoo.co.uk>
writes
>>>
>>
>
>In the world of Usenet groups, changing the Subject line does *not*
>start a new thread.
>
But maybe it depends on the news reader? I suppose it would indeed be a
neat feature if it did this!
--
Ian



From 2801730612808495243
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!j39g2000yqn.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
```

```
Date: Fri, 27 Feb 2009 03:34:53 -0800 (PST)
Organization: http://groups.google.com
Lines: 32
Message-ID: <f99b1cda-168f-4654-a1ac-afaa10afc928@j39g2000yqn.googlegroups.com>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
     <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
     <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-
bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
     <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
     <0001HW.C5C9D75201BEB22FB04379AF@news.sf.sbcglobal.net>
<OvDp7kG2QRpJFwFL@g3ohx.demon.co.uk>
     <0001HW.C5CAB7D801F3517DB01AD9AF@news.sf.sbcglobal.net>
<go4ste01r2l@news1.newsguy.com>
     <rDFpl.2157$Tp5.1918@newsfe13.iad>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1235734494 26917 127.0.0.1 (27 Feb 2009 11:34:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 27 Feb 2009 11:34:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j39g2000yqn.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:10183
rec.radio.amateur.homebrew:2258 rec.radio.amateur.misc:4127

On Feb 26, 6:31=A0pm, "Tio Pedro" <radioconnect...@cox.net> wrote:
> "Bill M" <radioex...@geeemail.com> wrote in message
>
> news:go4ste01r2l@news1.newsguy.com...
>
> > =A0>> No doubt, so I don't think a wooden antenna is the final solution=
.
> > Best check out how the scheme might work with scrap wood and coathanger=
s
> > and if that works then you could upgrade to finer materials for a more
> > permanent solution that works in the rain.
>
> > On the other hand it may work well for you in spite of the loss in gain=
.
>
> > -Bill
>
> Wood is fine, it has been used for UHF colinears for decades....
> The trick is to have the elements supported (in contact with
> wood) at the low voltage,
> high current points. =A0CC made a colinear back in the 60s
> that used good insulators, but had them on the high voltage
```

> points, which affected the antenna's performance.
>
> Pete

True enough if the design work has been do to ensure that the high impedance points arent in contact with the wood.
In the concerned case this may not be and probably isnt true for all frequencies concerned..

Jimmie

```
From -246492432013002388
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
newsfeed.xs4all.nl!newsfeed5.news.xs4all.nl!xs4all!post.news.xs4all.nl!not-for-
mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
From: Rob <nomail@example.com>
Subject: Re: Newsreaders that thread by subject
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
 <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
 <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
 <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
 <1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
 <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
 <i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net>
 <Oyopl.282$Rg3.263@newsfe17.iad>
 <3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
 <QpLpl.36525$g63.20199@newsfe24.iad>
 <0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
 <slrngqf939.1rqr.nomail@xs7.xs4all.nl> <z0XW9BGlk6pJFwzc@g3ohx.demon.co.uk>
 <slrngqfah4.1rqr.nomail@xs7.xs4all.nl> <6UEUF5Hrz6pJFwQ7@g3ohx.demon.co.uk>
 <slrngqfdn3.1thn.nomail@xs7.xs4all.nl> <aHBsRMM+u7pJFwli@g3ohx.demon.co.uk>
 <slrngqfg1f.1ulv.nomail@xs7.xs4all.nl> <vh0EqlN6S8pJFwQn@ntlworld.com>
User-Agent: slrn/pre0.9.9-102 (FreeBSD)
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <slrngqfred.24a1.nomail@xs7.xs4all.nl>
Date: 27 Feb 2009 13:42:37 GMT
Lines: 9
NNTP-Posting-Host: 194.109.21.7
X-Trace: 1235742157 news.xs4all.nl 182 [::ffff:194.109.21.7]:54979
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.antenna:8406
rec.radio.amateur.homebrew:1962 rec.radio.amateur.misc:3873
```

Ian Wade <g3nrw@yahoo.co.uk> wrote:
> They are all in the *same* thread, even though a couple people changed
> the Subject on the way.
>
> In the world of Usenet groups, changing the Subject line does *not*
> start a new thread.

Then stop the discussion about starting a new thread, as that just isn't
going to happen.

From -5036805814527324140
X-Google-Thread: fc2a5,7625634cca088955
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 27 Feb 2009 11:13:34 -0600
From: fghi544 <fghi544.3edd498@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WIA 'Amateur Radio' 10m FM Tcvr
Date: Fri, 27 Feb 2009 12:06:44 +0000
Message-ID: <fghi544.3edd498@radiobanter.com>
Organization: RadioBanter.com
References: <5MSdnThvLMVIeRTUnZ2dnUVZ8u6dnZ2d@posted.plusnet>
<882dnVdFLMcf_j3UnZ2dnUVZ8uGdnZ2d@posted.plusnet>
<IMednQBqwcEoaD_UnZ2dnUVZ8trinZ2d@posted.plusnet>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-dz4aENVReTyBLd8jZ8LLSxF5AiwRf3Gupoby/
YETNT5fLW5l1nD3ONZD7uOS8GTHPyLdwnYhdLZ09y1!IJdU6RoAP8LZ1q/
13xwYhG2sOWSE3Vtwy2bvWGM0xTpWrFBRJmruE+eVkLcvnC3M4ogfPTTFc+ye!VKsv
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Lines: 1
Xref: g2news1.google.com rec.radio.amateur.homebrew:1963

'Ralph Lauren' (http://ralph-lauren-polo-shirts.blogspot.com/), a
designer who let the United States-style in his hands turned into real
values. Has been preoccupied with shaping the minds of the convergence
of the Wild West, Indian culture, the old Hollywood feeling of
"American style" is the journal of the media who were called on behalf
of the "American classic" designers. In his well-operating under the
'Ralph Lauren Polo shirts'
(http://ralph-lauren-polo-shirts.blogspot.com/) company is the perfect
interpretation of American cowboy casual style. Knitted T-shirts are
probably the most successful among the polo shirts. Polo shirts are the

creator of American fashion designers Ralph Lauren (Ralph Lauren), Ralph Lauren Polo shirts, whether it is being loaded or casual wear, has a modern elegance, the First 'Ralph Lauren Polo shirts' (http://ralph-lauren-polo-shirts.blogspot.com/) design cool, neutral, slender lines appeared hearty and vibrant; with some sexy in a simple style to show their strong American style.

--
fghi544

```
From -9154285897449510094
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe16.iad.POSTED!7564ea0f!not-for-mail
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
     <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
     <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-
bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk> <d36b413a-da35-430c-b8c2-
a34816a62fce@v19g2000yqn.googlegroups.com>
<i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
<3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
<QpLpl.36525$g63.20199@newsfe24.iad> <XMydnYUINNcDVzrUnZ2dnUVZ8omWnZ2d@pipex.net>
Subject: Re: Sharing Internet Connection
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <dg3ql.51296$uG1.45551@newsfe16.iad>
NNTP-Posting-Host: 72.199.60.254
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe16.iad 1235796105 72.199.60.254 (Sat, 28 Feb 2009 04:41:45 UTC)
NNTP-Posting-Date: Sat, 28 Feb 2009 04:41:45 UTC
Organization: Cox
Date: Fri, 27 Feb 2009 20:41:44 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:8410
rec.radio.amateur.homebrew:1964 rec.radio.amateur.misc:3874
```

"Highland Ham" <rfburns@allbands.net> wrote in message
news:XMydnYUINNcDVzrUnZ2dnUVZ8omWnZ2d@pipex.net...

> In the end it all boils down to : Trust thy neigbour.
> Also ,there is no life without risk.
>
> Frank   GM0CSZ / KN6WH

Glory be to God! I failed absolutely!

No, no NO! What I said was: Do NOT trust your neighbor with your Internet connection. He is not as concerned with keeping you out of prison as you would want him to be if you are a freedom-loving soul. His misdeeds (or the misdeeds of people who have access to his computer, connected wirelessly to your 802.11 Internet connection) will be blamed on you. He does the deed -- you get the beating.

If there is no life without risk, go down to the packing plant and stick your dick in the pickle slicer. Maybe nothing will happen.

;-)
"Sal"
(KD6VKW, a Lowland Ham -- 458 ft AMSL and hoping for not very much sea level rise)

From -5801527418400434235
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe17.iad.POSTED!7564ea0f!not-for-mail
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk> <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
<i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
<3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
<QpLpl.36525$g63.20199@newsfe24.iad>
<0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
<slrngqf939.1rqr.nomail@xs7.xs4all.nl> <z0XW9BGlk6pJFwzc@g3ohx.demon.co.uk>
<slrngqfah4.1rqr.nomail@xs7.xs4all.nl>

Subject: Re: Sharing Internet Connection
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <kB3ql.19874$Rg3.4451@newsfe17.iad>
NNTP-Posting-Host: 72.199.60.254
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe17.iad 1235797456 72.199.60.254 (Sat, 28 Feb 2009 05:04:16 UTC)
NNTP-Posting-Date: Sat, 28 Feb 2009 05:04:16 UTC
Organization: Cox
Date: Fri, 27 Feb 2009 21:04:16 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:8411
rec.radio.amateur.homebrew:1965 rec.radio.amateur.misc:3875

"Rob" <nomail@example.com> wrote in message
news:slrngqfah4.1rqr.nomail@xs7.xs4all.nl...
> Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
> > In message <slrngqf939.1rqr.nomail@xs7.xs4all.nl>, Rob
> > <nomail@example.com> writes
> >>Esther & Fester Bestertester <not@me.really> wrote:
> >>>> I hope I've made my viewpoint clear.
> >>>
> >>> Can you please take this to another thread of its own?
> >>
> >>Again??? What do you want?
> >>It has been taken to another thread and still you repeat your comment.
> >
> > No it hasn't. The original thread, 'Hack a DTV antenna for dual
> > directions?' has been hijacked, and changed to 'Sharing Internet
> > Connection'.
>
> So now it is a new thread "Sharing Internet Connection". That is
> what was requested. No need to put more comments about changing thread
> into there.

From 5789679892260384031
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe04.iad.POSTED!7564ea0f!not-for-mail
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk> <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
<i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
<3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
<QpLpl.36525$g63.20199@newsfe24.iad>
<0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
<slrngqf939.1rqr.nomail@xs7.xs4all.nl>
<0001HW.C5CCE8A9006B85F9B01AD9AF@news.sf.sbcglobal.net>
<slrngqfacb.1rqr.nomail@xs7.xs4all.nl>
Subject: Re: Sharing Internet Connection
Lines: 29
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <o35ql.33570$EO2.4665@newsfe04.iad>
NNTP-Posting-Host: 72.199.60.254
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe04.iad 1235803476 72.199.60.254 (Sat, 28 Feb 2009 06:44:36 UTC)
NNTP-Posting-Date: Sat, 28 Feb 2009 06:44:36 UTC
Organization: Cox
Date: Fri, 27 Feb 2009 21:19:28 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:8413
rec.radio.amateur.homebrew:1966 rec.radio.amateur.misc:3876

"Rob" <nomail@example.com> wrote in message
news:slrngqfacb.1rqr.nomail@xs7.xs4all.nl...
> Esther & Fester Bestertester <not@me.really> wrote:
> >> Again??? What do you want?
> >
> > Relax...
> >
> > There have been 4 OT posts. Each poster apparently needs a little
help...
>
> You have been replying "take it to another thread" on a post that already
> has changed the subject.
> When you don't consider that another thread, pity for you.

Seriously, do the headers retain a record of a past thread when the subject
line is changed? I ask because I do not recall whether I did that or
whether I went to the <File> menu and initiated a <New News Message>.

When I saw the complaint about being off-topic, I really, truly, sincerely
wanted to comply with general NG etiquette (and I thought I was doing so).

I already Googled for NG etiquette and got a lot of stuff, nothing conclusive on this subject. URLs, please. If I do wrong, I need to undo it.

"Sal"

```
From -3007770979234527376
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe25.iad.POSTED!7564ea0f!not-for-mail
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-
ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-
bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk> <d36b413a-da35-430c-b8c2-
a34816a62fce@v19g2000yqn.googlegroups.com>
<i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
<3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
<QpLpl.36525$g63.20199@newsfe24.iad>
<0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
<slrngqf939.1rqr.nomail@xs7.xs4all.nl>
<0001HW.C5CCE8A9006B85F9B01AD9AF@news.sf.sbcglobal.net>
<slrngqfacb.1rqr.nomail@xs7.xs4all.nl> <o35ql.33570$EO2.4665@newsfe04.iad>
Subject: Re: Sharing Internet Connection
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <LD6ql.29216$Hy7.14031@newsfe25.iad>
NNTP-Posting-Host: 72.199.60.254
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe25.iad 1235809899 72.199.60.254 (Sat, 28 Feb 2009 08:31:39 UTC)
NNTP-Posting-Date: Sat, 28 Feb 2009 08:31:39 UTC
Organization: Cox
Date: Sat, 28 Feb 2009 00:31:38 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:8414
rec.radio.amateur.homebrew:1967 rec.radio.amateur.misc:3877
```

"Sal M. Onella" <salmonella@food.poisoning.org> wrote in message news:o35ql.33570$EO2.4665@newsfe04.iad...

>
> Seriously, do the headers retain a record of a past thread when the subject
> line is changed? I ask because I do not recall whether I did that or
> whether I went to the <File> menu and initiated a <New News Message>.

Answering my own question, for some newsreaders, a change of the subject
line DOES NOT create a new thread.

Therefore, to avoid taking the "Hacking a DTV Antenna ..." thread off-topic,
I should have posted a new message.   We're all still learning.

From -7353650774304165854
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news1.google.com!news.glorb.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 28 Feb 2009 06:14:21 -0600
Date: Sat, 28 Feb 2009 12:14:20 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
     <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
     <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
<0001HW.C5C9D75201BEB22FB04379AF@news.sf.sbcglobal.net>
<OvDp7kG2QRpJFwFL@g3ohx.demon.co.uk>
<0001HW.C5CAB7D801F3517DB01AD9AF@news.sf.sbcglobal.net>
<go4ste01r2l@news1.newsguy.com> <sfSdnS4J6tXYGzvUnZ2dnUVZ_uidnZ2d@bright.net>
<ec280372-769e-4aa4-bd5e-171e9dd4e177@v38g2000yqb.googlegroups.com>
In-Reply-To: <ec280372-769e-4aa4-bd5e-171e9dd4e177@v38g2000yqb.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <5bqdnYFR3-EAtzTUnZ2dnUVZ_u6dnZ2d@bright.net>
Lines: 25
X-Usenet-Provider: http://www.giganews.com

NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
nwbGSqNkROoZWw0qpp+Q+uBuBv2HnI0rQ9Mw9+xncjfAiKmjkH9mV1NEQlmRXAhOH9rZ+h/vKhN91rA!
WiZyg2/cO5Njv2Ae3KyfDos/u2TUJWb2VEQWHMAYeAqcGNTwhJNImrfZctuHgHliCbfQ8SsfnSfX!
CKPyx1x8kQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:8415
rec.radio.amateur.homebrew:1968 rec.radio.amateur.misc:3878

JIMMIE wrote:

>>
>>That's what spar varnish is for. Metal booms with the uninsulated
>>elements going through are probably more "shorted" than from wet wood!
>>When aluminum is out in the rain, it's just as wet as wood would be.
>>The water may detune it slightly. Wood can be a great choice for boom
>>material (with proper varnishing)...it would probably outlast an
>>aluminum one in a salt air environment....
>>
>>Scott
>>N0EDV- Hide quoted text -
>>
>>- Show quoted text -
>
>
> In this case the wood is being used as the feedpoint insulator.
>
> Jimmie

OK, throw on another coat of varnish if it makes you feel better...I
usually use 3 heavy, slopped on coats...I don't care about runs or beauty ;)

Scott

From 2485810834947449854
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 28 Feb 2009 08:40:27 -0600
Date: Sat, 28 Feb 2009 06:40:29 -0800
From: dave <dave@dave.dave>
User-Agent: Thunderbird 2.0.0.19 (X11/20090105)
MIME-Version: 1.0

Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Sharing Internet Connection
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-
ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-
bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk> <d36b413a-da35-430c-b8c2-
a34816a62fce@v19g2000yqn.googlegroups.com>
<i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
<3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
<QpLpl.36525$g63.20199@newsfe24.iad>
<0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
<slrngqf939.1rqr.nomail@xs7.xs4all.nl>
<0001HW.C5CCE8A9006B85F9B01AD9AF@news.sf.sbcglobal.net>
<slrngqfacb.1rqr.nomail@xs7.xs4all.nl> <o35ql.33570$EO2.4665@newsfe04.iad>
In-Reply-To: <o35ql.33570$EO2.4665@newsfe04.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <YKKdnf74QIZG0TTUnZ2dnUVZ_rwLAAAA@earthlink.com>
Lines: 28
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NNTP-Posting-Host: 75.79.51.198
X-Trace: sv3-
X1E7dEIgOc409AC9n8m5o3l1hSWp2CQrlWo21yFNTCoPztTV5zUm50q96P4Z1ektARFOGuUar09i8ul!
C9BqRKJJNeQTtqkIWlEhJTgYm5smZOmm4jwqN+CCoTZDbFJ+WCwH4Y2k03KssVTELQfDMD6tjHkr!
n86jJzUNBUnQCjXgpKws+XRzNydgnF0d
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.antenna:10195
rec.radio.amateur.homebrew:2266 rec.radio.amateur.misc:4134

Sal M. Onella wrote:
> "Rob" <nomail@example.com> wrote in message
> news:slrngqfacb.1rqr.nomail@xs7.xs4all.nl...
>> Esther & Fester Bestertester <not@me.really> wrote:
>>>> Again??? What do you want?
>>> Relax...
>>>
>>> There have been 4 OT posts. Each poster apparently needs a little
> help...
>> You have been replying "take it to another thread" on a post that already
>> has changed the subject.
>> When you don't consider that another thread, pity for you.
>
> Seriously, do the headers retain a record of a past thread when the subject
> line is changed? I ask because I do not recall whether I did that or
> whether I went to the <File> menu and initiated a <New News Message>.
>
> When I saw the complaint about being off-topic, I really, truly, sincerely

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> wanted to comply with general NG etiquette (and I thought I was doing so).
>
> I already Googled for NG etiquette and got a lot of stuff, nothing
> conclusive on this subject.  URLs, please.  If I do wrong, I need to undo
> it.
>
> "Sal"
>
>
This thread was earlier called: Hack a DTV antenna for dual direction



From -1529837715652429647
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 28 Feb 2009 10:11:22 -0600
Date: Sat, 28 Feb 2009 08:11:24 -0800
From: dave <dave@dave.dave>
User-Agent: Thunderbird 2.0.0.19 (X11/20090105)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Sharing Internet Connection
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-
ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-
bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk> <d36b413a-da35-430c-b8c2-
a34816a62fce@v19g2000yqn.googlegroups.com>
<i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
<3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
<QpLpl.36525$g63.20199@newsfe24.iad>
<0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
<slrngqf939.1rqr.nomail@xs7.xs4all.nl>
<0001HW.C5CCE8A9006B85F9B01AD9AF@news.sf.sbcglobal.net>
<slrngqfacb.1rqr.nomail@xs7.xs4all.nl> <o35ql.33570$EO2.4665@newsfe04.iad>
<LD6ql.29216$Hy7.14031@newsfe25.iad>
In-Reply-To: <LD6ql.29216$Hy7.14031@newsfe25.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <mqadnS8KQIu3_zTUnZ2dnUVZ_gSWnZ2d@earthlink.com>
Lines: 19
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 75.79.51.198
X-Trace: sv3-
g7nGHE8OHiT+09+3EN1s28pBrbcCSuz8F0t0MbbNt68wXtF30Z8ahOBdspZK0233zTxjT6HPH36x4D2!
```

```
rHBRKTNO1KmYLs6b8Kjv5jQjQX8wICe/Raj7Os40JdvFIWqZdXNnCIOqRVJiVEwtX8sg5uVoTdST!
crngL1ZsN254aPqgGJJm9OTEo4JY88um
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:8418
rec.radio.amateur.homebrew:1970 rec.radio.amateur.misc:3880

Sal M. Onella wrote:
> "Sal M. Onella" <salmonella@food.poisoning.org> wrote in message
> news:o35ql.33570$EO2.4665@newsfe04.iad...
>
>
>> Seriously, do the headers retain a record of a past thread when the
> subject
>> line is changed?  I ask because I do not recall whether I did that or
>> whether I went to the <File> menu and initiated a <New News Message>.
>
> Answering my own question, for some newsreaders, a change of the subject
> line DOES NOT create a new thread.
>
> Therefore, to avoid taking the "Hacking a DTV Antenna ..." thread off-topic,
> I should have posted a new message.    We're all still learning.
>
>
I'd use Thunderbird (as opposed to MS Outlook).  You can see a history
of a thread with a single click.


From 712723123217538546
X-Google-Thread: fc2a5,ab42477333153d9c,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!nlpi057.nbdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
flpi148.ffdc.sbc.com.POSTED!35cb456c!not-for-mail
From: "N9WOS" <Don't@bug.me>
Newsgroups: rec.radio.amateur.homebrew
Subject: An idea for s source for o,scope deflection amplifiers.
Lines: 48
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <GYgql.13366$W06.8172@flpi148.ffdc.sbc.com>
NNTP-Posting-Host: 66.72.68.90
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi148.ffdc.sbc.com 1235852198 ST000 66.72.68.90 (Sat, 28 Feb 2009
15:16:38 EST)
NNTP-Posting-Date: Sat, 28 Feb 2009 15:16:38 EST
Organization: at&t http://my.att.net/
```

X-UserInfo1:
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VMOSPFHNSYXVDIE@X\BUC@GTSX@DL^GKFFHQCCE\G[JJBMYDYIJCZM@AY]GNGPJD]YNNW\GSX^GSCKHA[]
@CCB\[@LATPD\L@J\\PF]VR[QPJN
Date: Sat, 28 Feb 2009 15:16:10 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:2268

The hardest part to build on an oscilloscope (while still maintaining bandwidth) is the final deflection amplifiers.
Something had occurred to me a little while ago. There is a readily available supply of chips that will do the job in a specific product. That product is CRT SVGA monitors.

The video amplifiers that drive the grids of the electron guns.

Normal supply voltage is 80 to 100V.
Normal output swing is 10 to 75V or 10 to 95V
Normal signal input voltage 0 to 5V
They are capable of driving 8pf loads which is close to the value of a deflection plate.
Output response times are 10us or faster. Some of the newest are down to 2.5us.
Corresponding bandwidth is DC to 50 or 200MHZ
They normally come in a self contained package that contains three amplifiers.

Since most scope most scope tubes take less than 80 volts per plate for full deflection (all the ones i have seen), then they make a great deflection amplifier.

They would be great for upgrading an old tube type scope up to a solid state 100Mhz unit. The rest of the amplifier chain would be easy to built. They would also be great for building a scope from scratch. Remember to keep lead lengths short, and use shielded interconnect cables, because at 100Mhz it will oscillate if it can hear it's self.

That is what I am currently doing to an old EICO scope. I already have the vertical amplifier in place. It uses two sections of a VPS10S. For The horizontal amplifier I am going with discrete components, because it doesn't need to be as high of bandwidth. I have got the horizontal amplifier built, and I just need to get it mounted.

The next stage is the amplifier stages between the input, and deflection circuits. They are all going to be 5V rail to ground. There will be a couple +10 and -5V point in the circuit for level transition, and signal inversions. And I have to build the horizontal oscillator and triggering circuits.

The only thing that has been bugging me is, what can I do with the old tube sockets. I have been trying to think of some tube circuits I could use. The only things I could think of is a high impedance input buffer. Or use a 6AL5 as a wide band RF rectifier. Or I could put in a sweep oscillator and a IF amplifier and make a rudimentary spectrum analyzer.

```
From -1352055888164956095
X-Google-Thread: fc2a5,ab42477333153d9c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!o8g2000pre.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: An idea for s source for o,scope deflection amplifiers.
Date: Sat, 28 Feb 2009 18:52:31 -0800 (PST)
Organization: http://groups.google.com
Lines: 35
Message-ID: <b486b0c7-3eb1-4af2-9e3c-377e56d3c2a7@o8g2000pre.googlegroups.com>
References: <GYgql.13366$W06.8172@flpi148.ffdc.sbc.com>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1235875951 9000 127.0.0.1 (1 Mar 2009 02:52:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 1 Mar 2009 02:52:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o8g2000pre.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.6)
     Gecko/2009011913 Firefox/3.0.6,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2269

On Feb 28, 12:16=A0pm, "N9WOS" <Do...@bug.me> wrote:
> The hardest part to build on an oscilloscope (while still maintaining
> bandwidth) is the final deflection amplifiers.
> Something had occurred to me a little while ago. There is a readily
> available supply of chips that will do the job in a specific product. Tha=
t
> product is CRT SVGA monitors.

...

Wow, I admire you for even thinking of tackling something like this!
You're right that the video drivers from modern fast monitors should
work fine for deflection amplifiers, perhaps with a bit of care about
frequency compensation, and so long as they have enough output to
drive your particular CRT.

On the other hand, it does seem like a LOT of work to go to
considering that you can get a really nice used analog scope for under
$100.  I have an HP1715A 200MHz 2-channel scope with nice main+delayed
sweep that I need to put on ebay (or equivalent), and I seriously
```

doubt I'll get $100 for it.

If you do go to all the trouble to revamp your Eico (maybe the same scope model I started with almost 50 years ago??!!), I do hope you'll put a good triggered sweep in it, and not just a "horizontal oscillator." It's not too difficult to make a very respectable linear sweep with op amps and fast comparators these days. For triggering, for example, have a look at the Analog Devices ADCMP02 and its siblings: fast, built-in hysteresis... I'm using one in the input of a counter, and it goes to 100MHz easily for low level inputs, and to well over 200MHz if I jack up the input a bit.

Cheers,
Tom

```
From -7942602783859617773
X-Google-Thread: fc2a5,ab42477333153d9c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!nlpi057.nbdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi067.nbdc.sbc.com.POSTED!35cb456c!not-for-mail
From: "N9WOS" <Don't@bug.me>
Newsgroups: rec.radio.amateur.homebrew
References: <GYgql.13366$W06.8172@flpi148.ffdc.sbc.com>
<b486b0c7-3eb1-4af2-9e3c-377e56d3c2a7@o8g2000pre.googlegroups.com>
Subject: Re: An idea for s source for o,scope deflection amplifiers.
Lines: 41
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <pmoql.23823$ZP4.9001@nlpi067.nbdc.sbc.com>
NNTP-Posting-Host: 66.72.68.28
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi067.nbdc.sbc.com 1235882517 ST000 66.72.68.28 (Sat, 28 Feb 2009
23:41:57 EST)
NNTP-Posting-Date: Sat, 28 Feb 2009 23:41:57 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
F[OORRZGZZRSP_@YMZJ\_Q\@TJ_ZTB\MV@BL\QMIWIWTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Sat, 28 Feb 2009 23:41:55 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:2270
```

>On the other hand, it does seem like a LOT of work to go to
>considering that you can get a really nice used analog scope for under

>$100. I have an HP1715A 200MHz 2-channel scope with nice main+delayed
>sweep that I need to put on ebay (or equivalent), and I seriously
>doubt I'll get $100 for it.

I have the old scope laying around so why not? And almost everything I am using in it is salvaged parts. Including capacitors, transistors, transformers, and the video chips in question. I will probably have under 10 dollars in it after I am done. (That includes the $5 I paid for the scope a few years ago.)

>If you do go to all the trouble to revamp your Eico (maybe the same
>scope model I started with almost 50 years ago??!!), I do hope you'll
>put a good triggered sweep in it, and not just a "horizontal
>oscillator." It's not too difficult to make a very respectable linear
>sweep with op amps and fast comparators these days. For triggering,
>for example, have a look at the Analog Devices ADCMP02 and its
>siblings: fast, built-in hysteresis... I'm using one in the input of
>a counter, and it goes to 100MHz easily for low level inputs, and to
>well over 200MHz if I jack up the input a bit.

For the sweep, I was planning on using a transistor as a constant current source to charge the capacitor for a nice linear sweep. And use JK or D flip flops for trigger and state control. The flip flops would be triggered and reset by comparators.

The clock input to the flip flop will be feed from a comparator and used as the trigger input. When the capacitor reaches a certain value (end of sweep) a comparator would reset the flip flop. When the flip flop rests, it will discharge the cap. After a dwell time (cap discharge period), the data input to the flip flop will be brought high. The next clock input (trigger) will set the flip flop and the cap will start charging which commences the sweep.

I should be able to do the sweep and triggering circuit with a dual D flip flop, a quad comparator, and a transistor with some other components. with a comparator and D flip flop to spare.

From 7462247937385127236
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe09.iad.POSTED!7564ea0f!not-for-mail
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>

<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk> <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
<i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net> <Oyopl.282$Rg3.263@newsfe17.iad>
<3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
<QpLpl.36525$g63.20199@newsfe24.iad>
<0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
<slrngqf939.1rqr.nomail@xs7.xs4all.nl>
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<YKKdnf74QIZG0TTUnZ2dnUVZ_rwLAAAA@earthlink.com>
Subject: Re: Sharing Internet Connection
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <I%qql.51852$cI2.35948@newsfe09.iad>
NNTP-Posting-Host: 72.199.60.254
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe09.iad 1235893352 72.199.60.254 (Sun, 01 Mar 2009 07:42:32 UTC)
NNTP-Posting-Date: Sun, 01 Mar 2009 07:42:32 UTC
Organization: Cox
Date: Sat, 28 Feb 2009 23:42:31 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:8429 rec.radio.amateur.homebrew:1974 rec.radio.amateur.misc:3883

"dave" <dave@dave.dave> wrote in message
news:YKKdnf74QIZG0TTUnZ2dnUVZ_rwLAAAA@earthlink.com...

< snip >

> This thread was earlier called: Hack a DTV antenna for dual direction.

Yes, and I screwed it up by changing the <Subject>, thinking I was creating a new thread. However it doesn't always happen that way.

It went off topic, I followed and was called on it. The attempted "fix" turned out to be my screw-up.

From 6721279950752334644
X-Google-Thread: fc2a5,2bf81b15d27f746f,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!feed.xsnews.nl!ramfeed-1.ams.xsnews.nl!upload-1.xsnews.nl!frontend-

```
F08-06.ams.reader.xsnews.nl
From: "D. v. Bilt" <not@here.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: If a mosfet works fine than why not use a thyristor ?
Date: Sun, 1 Mar 2009 09:53:11 +0100
Organization: flup
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Lines: 6
Message-ID: <49aa4d34$0$31185$6d4158fb@reader.xsnews.nl>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2272



    It just crossed my mind. If a mosfet used in switch mode should or
    could a thyristor also work. Do manufacturers make them already
    for high frequencies ?
    Because a power mosfet is far too expensive to hobby around with.


From -8861467994985178379
X-Google-Thread: fc2a5,2bf81b15d27f746f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news2.glorb.com!news-
xfer.nntp.sonic.net!news.astraweb.com!border2.newsrouter.astraweb.com!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: If a mosfet works fine than why not use a thyristor ?
Date: Sun, 01 Mar 2009 02:14:23 -0800
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2009.03.01.10.14.23.123127@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <49aa4d34$0$31185$6d4158fb@reader.xsnews.nl>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 9
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 2796cf4d.news.astraweb.com
X-Trace: DXC=[BOoA@c55d?CObSL`Ra@h6L?0kYOcDh@:_d>jF6@cXi5Rc?
eJb_80L;FDS<UL7kA@<nh2cCTA><0?68hHc9b?HH6=AU8U6db\?>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1976

Hi,
```

Early TV's used them in their power supplies. Some used a SCR, others used fancier devices.

MOSFET's give a higher efficiency and are a lot easier to drive, so they were pretty much abandoned.

Cheers!

From -4349338368109953973
X-Google-Thread: fc2a5,2bf81b15d27f746f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
news2.arglkargh.de!news.n-ix.net!newsfeed.freenet.de!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: If a mosfet works fine than why not use a thyristor ?
Date: Sun, 01 Mar 2009 10:50:07 +0000
Organization: Bias Comms
Lines: 16
Message-ID: <70v7hqFi5e1lU1@mid.individual.net>
References: <49aa4d34$0$31185$6d4158fb@reader.xsnews.nl>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net hQ0e3vQ7bKdhrJKOW9M1yQ6uOBYZfpbxreLjvjwoAXMcHJhdP2
Cancel-Lock: sha1:HvRNo1cljiB8pyT/n2U7m8typlk=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:2274

D. v. Bilt wrote:

> It just crossed my mind. If a mosfet used in switch mode should or
> could a thyristor also work. Do manufacturers make them already
> for high frequencies ?

I've done it in the past, but they're not really capable of high frequencies (mine was at 173 kHz).

> Because a power mosfet is far too expensive to hobby around with.

What? The IRF730 (for example) is capable of 50 Watts at up to 25 MHz for very little drive, and costs under $1!

Bob

From 5259294848658338482

X-Google-Thread: fc2a5,2bf81b15d27f746f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 01 Mar 2009 10:59:26 -0600
Date: Sun, 01 Mar 2009 16:59:26 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: If a mosfet works fine than why not use a thyristor ?
References: <49aa4d34$0$31185$6d4158fb@reader.xsnews.nl> <70v7hqFi5e1lU1@mid.individual.net>
In-Reply-To: <70v7hqFi5e1lU1@mid.individual.net>
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Content-Transfer-Encoding: 7bit
Message-ID: <KIadnSfFbrZyIzfUnZ2dnUVZ_ozinZ2d@bright.net>
Lines: 16
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-gq1VAu4WxgZVV5pL1sWqhgc0GK/SZmOIml4vT3aYtmzfWbDW0mGbGYJwE1joMwL+klkwvBJZfRchGxi!CKF2G4yWFQ0q9yCav927jiaOZ2p5w5CFwXQEoChzVY/EcKdbLpgHvfssrKDsb79k6J4dlPI8NE1r!LFtD49HCyg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1978

Bob wrote:

>
>
>>   Because a power mosfet is far too expensive to hobby around with.
>
>
> What? The IRF730 (for example) is capable of 50 Watts at up to 25 MHz for
> very little drive, and costs under $1!
>
> Bob
>

Hams is cheap! ;) If it ain't free, it's too expensive to bother with ;)

Scott
N0EDV

From -1098875340851585289

```
X-Google-Thread: fc2a5,2bf81b15d27f746f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!
feed.xsnews.nl!ramfeed-2.ams.xsnews.nl!upload-1.xsnews.nl!frontend-
F08-02.ams.reader.xsnews.nl
From: "D. v. Bilt" <not@here.com>
Newsgroups: rec.radio.amateur.homebrew
References: <49aa4d34$0$31185$6d4158fb@reader.xsnews.nl>
<70v7hqFi5e1lU1@mid.individual.net>
Subject: Re: If a mosfet works fine than why not use a thyristor ?
Date: Sun, 1 Mar 2009 18:37:03 +0100
Organization: flup
MIME-Version: 1.0
Content-Type: text/plain;
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     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Lines: 13
Message-ID: <49aac7ea$0$17425$6d4158fb@reader.xsnews.nl>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1979


"Bob" <biascomms@invalid.inv>

>>     Because a power mosfet is far too expensive to hobby around with.
>
> What?  The IRF730 (for example) is capable of 50 Watts at up to 25 MHz for
> very little drive, and costs under $1!
>
> Bob

  Agreed. But now the 150 W and up versions for 2 meters..

  b.t.w. since when did the u.s. agree to go metric ? (1888?)  not only for hams.


From -5050623654822598625
X-Google-Thread: fc2a5,2bf81b15d27f746f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
flpi148.ffdc.sbc.com.POSTED!35cb456c!not-for-mail
From: "N9WOS" <Don't@bug.me>
Newsgroups: rec.radio.amateur.homebrew
References: <49aa4d34$0$31185$6d4158fb@reader.xsnews.nl>
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Subject: Re: If a mosfet works fine than why not use a thyristor ?
Lines: 26
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <JSzql.13409$W06.5702@flpi148.ffdc.sbc.com>
NNTP-Posting-Host: 66.72.70.113
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi148.ffdc.sbc.com 1235929641 ST000 66.72.70.113 (Sun, 01 Mar 2009 12:47:21 EST)
NNTP-Posting-Date: Sun, 01 Mar 2009 12:47:21 EST
Organization: at&t http://my.att.net/
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Date: Sun, 1 Mar 2009 12:47:19 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:2277

"D. v. Bilt" <not@here.com> wrote in message
news:49aa4d34$0$31185$6d4158fb@reader.xsnews.nl...

> It just crossed my mind. If a mosfet used in switch mode should or
> could a thyristor also work. Do manufacturers make them already
> for high frequencies ?
> Because a power mosfet is far too expensive to hobby around with.

The main problem I see is the fact that they are generally designed to lock into the on state, until the load current drops to zero. For a switch mode power supply, the switching device has to be able to break full current. If you used an SCR it would lock on, and things would melt under most conditions.

The only switching circuits they can be used in is circuits that are designed to drop to zero on it's own for the SCR to unlatch. Like AC load control, where the sine wave drops to zero at a 120 times a second.

Like the old computer line printers. They had a bank of SCRs driving the printing heads. The inductive rebound would bring the current to zero and allow the SCR to unlatch after triggering. But If one stuck on, you better shut the system down quick, or the thing was going to burst into flame.

From -2713529092843965O9
X-Google-Thread: fc2a5,2bf81b15d27f746f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII

Path: g2news1.google.com!postnews.google.com!d19g2000yqb.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: If a mosfet works fine than why not use a thyristor ?
Date: Sun, 1 Mar 2009 13:29:35 -0800 (PST)
Organization: http://groups.google.com
Lines: 11
Message-ID: <1504250a-5d35-4dc0-b59f-1d0c720fe95f@d19g2000yqb.googlegroups.com>
References: <49aa4d34$0$31185$6d4158fb@reader.xsnews.nl>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1235942975 26834 127.0.0.1 (1 Mar 2009 21:29:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 1 Mar 2009 21:29:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d19g2000yqb.googlegroups.com; posting-host=75.190.189.120;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1981

On Mar 1, 3:53=A0am, "D. v. Bilt" <n...@here.com> wrote:
> =A0 =A0 It just crossed my mind. If a mosfet used in switch mode should o=
r
> =A0 =A0 could a thyristor also work. Do manufacturers make them already
> =A0 =A0 for high frequencies ?
> =A0 =A0 Because a power mosfet is far too expensive to hobby around with.

They are relaatively slow, You might could build a VLF transmitter
using them.

Jimmie

From -1157287653262882237
X-Google-Thread: fc2a5,ab42477333153d9c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news2.glorb.com!
nlpi057.nbdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!nlpi066.nbdc.sbc.com.POSTED!ef855899!not-for-mail
From: patrick jankowiak <eccm@swbell.net>
Reply-To: recyclerREMOVE_THIS@swbell.net
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: An idea for s source for o,scope deflection amplifiers.
References: <GYgql.13366$W06.8172@flpi148.ffdc.sbc.com>
<b486b0c7-3eb1-4af2-9e3c-377e56d3c2a7@o8g2000pre.googlegroups.com>

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<pmoql.23823$ZP4.9001@nlpi067.nbdc.sbc.com>
In-Reply-To: <pmoql.23823$ZP4.9001@nlpi067.nbdc.sbc.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 090301-0, 03/01/2009), Outbound message
X-Antivirus-Status: Clean
Lines: 54
Message-ID: <bZEql.17426$YU2.8900@nlpi066.nbdc.sbc.com>
NNTP-Posting-Host: 208.190.133.204
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi066.nbdc.sbc.com 1235950535 ST000 208.190.133.204 (Sun, 01 Mar 2009
18:35:35 EST)
NNTP-Posting-Date: Sun, 01 Mar 2009 18:35:35 EST
Organization: at&t http://my.att.net/
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[[PGW\KEVJUSP_T[LJJ\OPLI[B]NQHMIQQ]ZMVMHQAVTUZ]CLNTCPFK[WDXDHV[K^FCGJCJLPF_D_NCC@F
UG^Q\DINVAXSLIFXYJSSCCALP@PB@\OS@BITWAH\CQZKJMMD^SJA^NXA\GVLSRBD^M_NW_F[YLVTWIGAXA
QBOATKBBQRXECDFDMQ\DZFUE@\JM
Date: Sun, 01 Mar 2009 17:35:44 -0600
Xref: g2news1.google.com rec.radio.amateur.homebrew:1982
```

N9WOS wrote:

> > On the other hand, it does seem like a LOT of work to go to
> > considering that you can get a really nice used analog scope for under
> > $100. I have an HP1715A 200MHz 2-channel scope with nice main+delayed
> > sweep that I need to put on ebay (or equivalent), and I seriously
> > doubt I'll get $100 for it.
>
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>
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>
> For the sweep, I was planning on using a transistor as a constant current
> source to charge the capacitor for a nice linear sweep. And use JK or D flip
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> reset by comparators.
>
> The clock input to the flip flop will be feed from a comparator and used as
> the trigger input. When the capacitor reaches a certain value (end of sweep)
> a comparator would reset the flip flop. When the flip flop rests, it will
> discharge the cap. After a dwell time (cap discharge period), the data input

> to the flip flop will be brought high. The next clock input (trigger) will
> set the flip flop and the cap will start charging which commences the sweep.
>
> I should be able to do the sweep and triggering circuit with a dual D flip
> flop, a quad comparator, and a transistor with some other components. with a
> comparator and D flip flop to spare.
>
>

Thanks for posting this interesting topic! I thought no one else cared about CRTs. I've been messing with scopes and CRTs a long time. It's always fun. I always see the 3" tubes built into people's projects, running on 1-3KV. They are never very bright. I like the larger 5" ones of recent manufacture (recent being a relative term). Half the fun is doing it yourself. Even the HV supply is a fun project when you get into serious scope tubes. In general, it will take at least 6KV to get a real bright one going. - but the tube has to be able to take it! In case anyone needs a good CRT, there are many here, for cheap, and quite a few HP or TEK types:
http://www.magnetosphere.net/

PJ

From -7649253469116449505
X-Google-Thread: fc2a5,2bf81b15d27f746f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 01 Mar 2009 20:16:53 -0600
Reply-To: "Leland C. Scott" <kc8ldo@arrl.net>
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <49aa4d34$0$31185$6d4158fb@reader.xsnews.nl>
Subject: Re: If a mosfet works fine than why not use a thyristor ?
Date: Sun, 1 Mar 2009 21:16:56 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <SrGdnaG7kIAI3DbUnZ2dnUVZ_t3inZ2d@giganews.com>
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X-Trace: sv3-dBE5VV6KbkhdnupIjQBR8lO7dBydaIjA5gtjVpbNWS+
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WjQEmRbiLSNV6apN5ZCOBT6Fna8ZCB7yc5AyazT2bq57ZY=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint

properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2280

"D. v. Bilt" <not@here.com> wrote in message
news:49aa4d34$0$31185$6d4158fb@reader.xsnews.nl...
>
>
> It just crossed my mind. If a mosfet used in switch mode should or could a thyristor also work.

Yes they would however the circuit complexity is higher. Other than the frequency issue the problem is turning off the SCR. This requires some careful design techniques to commutate the SCR off once it is turned on. That's where the complexity comes in to play. Various methods are used to accomplish this. Also SCR's have other problems too such as turn-on di/dt limits, dv/dt limits at turn off (which can cause retriggering), recovery time requirements, high recovered charge etc making snubber circuit design a challenge.

http://nptel.iitm.ac.in/courses/Webcourse-contents/IIT%20Kharagpur/Power%20Electronics/PDF/L-19(SSG)(PE)%20((EE)NPTEL)%20.pdf

http://forum.vtu.ac.in/~edusat/Prog6/pelec/tka/Thyristor-Commutation-Techniques.ppt#113

--
Regards,
Leland C. Scott
KC8LDO

Do manufacturers make them already
> for high frequencies ?
> Because a power mosfet is far too expensive to hobby around with.

From -3274097199293387220
X-Google-Thread: fc2a5,ab42477333153d9c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!h20g2000yqn.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: An idea for s source for o,scope deflection amplifiers.
Date: Sun, 1 Mar 2009 18:38:47 -0800 (PST)
Organization: http://groups.google.com
Lines: 77
Message-ID: <1098f503-293c-40fd-a0c2-6abf9b9539fa@h20g2000yqn.googlegroups.com>

References: <GYgql.13366$W06.8172@flpi148.ffdc.sbc.com>
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.6)
Gecko/2009011913 Firefox/3.0.6 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1984

Hey OM:

I remember my days at RETS electronics schools we had a instructor his
name was Armstrong the cousin of the inventor of FM. In his class you
got to build a 100Mhz tube only scope, you bought all the parts from
him, nice scam, including the CRT, he made the CRT's himself from
scratch. I didn't get him as an instructor so I missed out on a great
deal. We got to play with computers the relay tube type. When I
graduated, Armstrong finally broke down and put an FET into his scope.
I have to add that his scope was flat + - 3db all the way out to
100MHZ. dual trace with a triggered sweep.
Don't forget your astigmatism

73 OM
de n8zu

On Feb 28, 3:16=A0pm, "N9WOS" <Do...@bug.me> wrote:

> The hardest part to build on an oscilloscope (while still maintaining
> bandwidth) is the final deflection amplifiers.
> Something had occurred to me a little while ago. There is a readily
> available supply of chips that will do the job in a specific product. Tha=
t
> product is CRT SVGA monitors.
>
> The video amplifiers that drive the grids of the electron guns.
>
> Normal supply voltage is 80 to 100V.
> Normal output swing is 10 to 75V or 10 to 95V
> Normal signal input voltage 0 to 5V
> They are capable of driving 8pf loads which is close to the value of a
> deflection plate.
> Output response times are 10us or faster. Some of the newest are down to
> 2.5us.
> Corresponding bandwidth is DC to 50 or 200MHZ
> They normally come in a self contained package that contains three
> amplifiers.

```
>
> Since most scope most scope tubes take less than 80 volts per plate for f=
ull
> deflection (all the ones i have seen), then they make a great deflection
> amplifier.
>
> They would be great for upgrading an old tube type scope up to a solid st=
ate
> 100Mhz unit. The rest of the amplifier chain would be easy to built. They
> would also be great for building a scope from scratch. Remember to keep l=
ead
> lengths short, and use shielded interconnect cables, because at 100Mhz it
> will oscillate if it can hear it's self.
>
> That is what I am currently doing to an old EICO scope. I already have th=
e
> vertical amplifier in place. It uses two sections of a VPS10S. For The
> horizontal amplifier I am going with discrete components, because it does=
n't
> need to be as high of bandwidth. I have got the horizontal amplifier buil=
t,
> and I just need to get it mounted.
>
> The next stage is the amplifier stages between the input, and deflection
> circuits. They are all going to be 5V rail to ground. There will be a cou=
ple
> +10 and -5V point in the circuit for level transition, and signal
> inversions. And I have to build the horizontal oscillator and triggering
> circuits.
>
> The only thing that has been bugging me is, what can I do with the old tu=
be
> sockets. I have been trying =A0to think of some tube circuits I could use=
. The
> only things I could think of is a high impedance input buffer. Or use a 6=
AL5
> as a wide band RF rectifier. Or I could put in a sweep oscillator and a I=
F
> amplifier and make a rudimentary spectrum analyzer.
```

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From -3117142291681474028
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
w9g2000yqa.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Nuvistor TV preamp mod
Date: Fri, 20 Mar 2009 06:33:57 -0700 (PDT)
Organization: http://groups.google.com
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Lines: 53
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Xref: g2news1.google.com rec.radio.amateur.homebrew:2035

On Mar 19, 8:20=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> On Mar 18, 10:50=A0pm, RFI-EMI-GUY <Rhyol...@NETTALLY.COM> wrote:
>
>
>
> > JIMMIE wrote:
> > > I have 3 mast mounted nuvistor pre amps less power supplies. I was
> > > looking for information on these to convert them to use on the 6 and =
2
> > > meter =A0and 70cm ham bands. I may still have a power supply around b=
ut
> > > as of yet I havent been able to find it. The pre amps are mount in a
> > > somewhat egg shaped plastic container with twin lead connections on
> > > them. Im not sure of the manufacturer. Schematics on the amplifiers
> > > and power supplies would be nice. Directions on doing the mod would b=
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> > > could figure out what I have it shouldnt be that difficult to conver
> > > it to what I want. Besides that it will give me something to do with
> > > these old 6cw4s.
>
> > > Jimmie
>
> > You would do good to find a 70's or earlier ARRL handbook. There were
> > many articles about Nuvistors.
>
> > --
> > Joe Leikhim K4SAT
> > "The RFI-EMI-GUY"=A9
>
> > "Use only Genuine Interocitor Parts" Tom Servo =A0;-P
>
> I used to have access to the handbooks of the 60s and early 70s. I
```

> thought those were some of the best years. Im always on the lookout
> for some but it seems a lot of other people share my opinion and dont
> want to part with them.
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Hey OM:

Really though sounds like you have low and high band VHF wideband
preamps for maybe TV use. The low band being 54 to 88 MHz and the
high band is 174 MHz to 230 MHz. So 6 and 2 meters is doable.

I don't know if you could squeeze UHF out of them, 6cw4s' input C is
way to high.
In tube TV's they used 6af4's for the UHF band half the input C of a
6cw4. And even that was a oscillator not a preamp.

73 OM

de n8zu

From 397776934637491828
X-Google-Thread: fc2a5,3a78cb4828ccc76a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
j8g2000yql.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Nuvistor TV preamp mod
Date: Fri, 20 Mar 2009 07:23:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 69
Message-ID: <426c859e-943c-4b09-86b8-32458300ff16@j8g2000yql.googlegroups.com>
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NNTP-Posting-Date: Fri, 20 Mar 2009 14:23:13 +0000 (UTC)
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB5;
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Xref: g2news1.google.com rec.radio.amateur.homebrew:2036

On Mar 19, 8:20=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
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> want to part with them.

They aren't that hard to find :-). The early-mid-60's handbooks would
be your best bet for finding Nuvistor construction articles.

But what you really want is to look up the 60's QST articles on
Nuvistor based preamps:

Sep 1960: Nuvistor as an RF Amplifier at 144 Mc
Jan 1961: K1IJB Nuvistor Preamplifier
Aug 1961: Nuvistor Preamplifiers for 50 and 144 Mc
Jul 1962: Nuvistor Converter for 220 Mc
Jul 1962: Improving Performance of Nuvistor 144 Mc converters
Aug 1962: Using the QST Nuvistor Converters with Amateur-Bands only
receivers
Jan 1963: An All-Nuvistor Convertor for 420 Mc

Apr 1963: Two Nuvistor Converters for 220 Mc
May 1963: Nuvistor Goes Mobile on 50 Mc

If you get the impression that early 60's was the peak for Nuvistor usage, you'd be about right. The August 61 article is IMHO the definitive one on preamp usage.

For using a TV preamp, all you'd want to do is remove any traps that get rid of the ham bands. But you'd do much better with tuned input circuit for only the ham band of interest.

You can download all the above for free from the ARRL if you log in with your member ID. With all the old QST's available on the web, everyone ought to be a member!

Tim N3QE

From 2075570616274664348
X-Google-Thread: fc2a5,3a78cb4828ccc76a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!r18g2000vbi.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Nuvistor TV preamp mod
Date: Fri, 20 Mar 2009 11:39:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 71
Message-ID: <78e32262-e7a5-40b2-ba2e-48869ad86430@r18g2000vbi.googlegroups.com>
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X-Trace: posting.google.com 1237574361 15332 127.0.0.1 (20 Mar 2009 18:39:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 20 Mar 2009 18:39:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2334

On Mar 20, 9:33=A0am, raypsi <RBorow...@gmail.com> wrote:
> On Mar 19, 8:20=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
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```

```
>
> 73 OM
>
> de n8zu- Hide quoted text -
>
> - Show quoted text -

6cw4s may not be what is in the amps but I do have a few and a few
others. I thik the 6cw4s were something I bought for a project and the
others are left over from when I worked on TVs back in the early 70s.
They are probably the right kind. Im pretty sure I kept these preamps
because they worked because at one time I had a bushel of them most of
which had a fair amount of lightning damage.

Jimmie



From -8495635630448284146
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not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Mozilla-Thunderbird 2.0.0.19 (X11/20090103)
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Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-
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In-Reply-To: <9085826d-e72a-4cbe-9493-ff92406d552b@q18g2000vbn.googlegroups.com>
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Content-Transfer-Encoding: 7bit
Lines: 34
Message-ID: <bRVwl.18562$b9.1772@bignews6.bellsouth.net>
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X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
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Organization: BellSouth Internet Group
Date: Fri, 20 Mar 2009 18:47:25 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2335

JIMMIE wrote:
> On Mar 18, 9:24 pm, Robert casey <wa2...@ix.netcom.com> wrote:
>>> The design used plug-in coils for the osc and rf stages, and
>>  they were double conversion designs, with a first IF of
>>  1600 kc and a second IF of either 100 kc or 85 kc (when
>>  using surplus ARC-5 IFTs.)  The 1800 mc xtal you bought
>>  your dad was used for the second coversion osc. to convert
>>  the 1600 kc IF down to 100 kc.  Many hams deviated from
>>  the exact original IF frequencies (i.e. strong local BC
>>  station on 1600 kc) which might explain why the xtal
>>
>>> was chosen for 1800 kc instead of 1500 or 1700.
>> We have a local mid power station at 1600KHz, WWRL, at my parents' house,
>> so my father might have wanted to avoid problems with it.
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>> His radio had a bandswitch instead of plug in coils, and he'd receive
>> various broadcast SW stations.  He wasn't a ham at the time just yet.
>
> I had a friend who was a retired engineer with GE turned TV tech who
> built
> one with a band switch and he later modified it to
> be more of a general purpose SW receiver. His name was Olin Griggs.
>
>
> Jimmie.
I once saw an article in 73 magazine showing a HB receiver that used a
re-worked turret tv tuner as a band switch.  The coils were re-wound
onto the original forms, but some have just replaced the forms with some
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the junk box, but over the years the contacts have gone bad and now show
a high resistance.   Maybe they could be cleaned up, but it no longer
seems worth the effort.  My new idea is to use miniature relays to
switch the circuits.  I recently found nearly a gross of small relays
for free so why not?


From -1324113615101263510
X-Google-Thread: fc2a5,e8a250ae4a42ab1,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
flpi148.ffdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Icom R1500 USB driver, intermittent, audio dead
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 16
Message-ID: <3dWwl.14783$W06.8779@flpi148.ffdc.sbc.com>
NNTP-Posting-Host: 75.26.170.94
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi148.ffdc.sbc.com 1237594047 ST000 75.26.170.94 (Fri, 20 Mar 2009
20:07:27 EDT)
NNTP-Posting-Date: Fri, 20 Mar 2009 20:07:27 EDT
Organization: at&t http://my.att.net/
```

X-UserInfo1:
SCSYQNON_ZUYB_TY]ZKTOFTBTR\B@GXLN@GZ_GYO^BVNDQUBLNTC@AWZWDXZXQ[K\FFSKCVM@F_N_DOBWV
WG__LG@VVOIPLIGX\
\BU_B@\P\PFX\B[APHTWAHDCKJF^NHD[YJAZMCY_CWG[SX\Y]^KC\HSZRWSWKGAY_PC[BQ[BXAS\F\
\@DMTLFZFUE@\VL
Date: Fri, 20 Mar 2009 17:07:20 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:2039

Hello Folks,

Has anyone ever had this happen and maybe knows what could be wrong?

The Icom R1500 behaves like a PCR1500 when controlled via the PC. Or so says Icom. When I try to control it through the virtual COM3 port via USB it seems to have lots of data traffic jams. If I turn the "virtual" dial too fast the R1500 seems to lag. Sometimes it doesn't react at all and seconds later starts slowly tuning through all the frequencies I had chosen. This can go on for half a minute until it has trundled out.

Audio is supposed to go via the same USB cable but not as a serial COM port. Well, that part doesn't work at all, no audio.

--
73, Joerg

From -2260395957291792949
X-Google-Thread: fc2a5,d8f5c1e658b3c68d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
nlpi057.nbdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!nlpi068.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-
bdd0-49eba484eef0@w35g2000yqm.googlegroups.com>
<QX3wl.67367$FI5.20197@newsfe07.iad> <Xns9BD2BB30CC7EFwa2ise@69.16.185.252>
<9085826d-e72a-4cbe-9493-ff92406d552b@q18g2000vbn.googlegroups.com>
<bRVwl.18562$b9.1772@bignews6.bellsouth.net>
In-Reply-To: <bRVwl.18562$b9.1772@bignews6.bellsouth.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 49
Message-ID: <x4Xwl.24362$yr3.21444@nlpi068.nbdc.sbc.com>
NNTP-Posting-Host: 75.26.170.94
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi068.nbdc.sbc.com 1237597597 ST000 75.26.170.94 (Fri, 20 Mar 2009
21:06:37 EDT)
NNTP-Posting-Date: Fri, 20 Mar 2009 21:06:37 EDT

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Organization: at&t http://my.att.net/
X-UserInfo1:
Q[OGRYSEGZWUSWHXNCOF_W\@PJ_^PBQLGPQRZ_MHEQR@ETUCCNSKQFCY@TXDX_WHSVB]ZEJLSNY\^J[CUV
SA_QLFC^RQHUPH[P[NRWCCMLSNPOD_ESALHUK@TDFUZHBLJ\XGKL^NXA\EVHSP[D_C^B_^JCX^W]CHBAX]
POG@SSAZQ\LE[DCNMUPG_VSC@VJM
Date: Fri, 20 Mar 2009 18:06:30 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:2040

ken scharf wrote:
> JIMMIE wrote:
>> On Mar 18, 9:24 pm, Robert casey <wa2...@ix.netcom.com> wrote:
>>>> The design used plug-in coils for the osc and rf stages, and
>>>  they were double conversion designs, with a first IF of
>>>  1600 kc and a second IF of either 100 kc or 85 kc (when
>>>  using surplus ARC-5 IFTs.)  The 1800 mc xtal you bought
>>>  your dad was used for the second coversion osc. to convert
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>>>
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>>>
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>>
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>>
>>
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> for free so why not?


Relays will most likely bring some grief over the years with contacts
not conducting 100% and such. Better use band switching diodes or PIN
diodes.

--
Regards, Joerg
```

http://www.analogconsultants.com/

"gmail" domain blocked because of excessive spam.
Use another domain or send PM.

From -6337826166308796411
X-Google-Thread: fc2a5,3a78cb4828ccc76a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe24.iad.POSTED!7564ea0f!not-for-mail
From: "Unca Pete" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <b8ab8090-d338-4dfd-8857-6c49a4ec75a1@c36g2000yqn.googlegroups.com>
<49c1b2d6$0$4955$9a6e19ea@unlimited.newshosting.com> <957da915-f5ac-40f5-b98c-b755b8cc4c35@l16g2000yqo.googlegroups.com>
<426c859e-943c-4b09-86b8-32458300ff16@j8g2000yql.googlegroups.com>
Subject: Re: Nuvistor TV preamp mod
Lines: 14
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <d7Xwl.30779$5t4.22583@newsfe24.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe24.iad 1237597769 68.229.77.6 (Sat, 21 Mar 2009 01:09:29 UTC)
NNTP-Posting-Date: Sat, 21 Mar 2009 01:09:29 UTC
Organization: Cox
Date: Fri, 20 Mar 2009 21:09:12 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:2041

"Tim Shoppa" <shoppa@trailing-edge.com> wrote in message news:426c859e-943c
You can download all the above for free from the ARRL if you log in
with your member ID. With all the old QST's available on the web,
everyone ought to be a member!

Tim N3QE

I'll join the ARRL the day I can choose QEX over the QST
forced subscription that comes with the membership.

Pete k1zjh

From 7222425721875889961
X-Google-Thread: fc2a5,3a78cb4828ccc76a

X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe18.iad.POSTED!269d8c94!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Nuvistor TV preamp mod
References: <b8ab8090-d338-4dfd-8857-6c49a4ec75a1@c36g2000yqn.googlegroups.com>
<49c1b2d6$0$4955$9a6e19ea@unlimited.newshosting.com> <957da915-f5ac-40f5-b98c-
b755b8cc4c35@l16g2000yqo.googlegroups.com>
<426c859e-943c-4b09-86b8-32458300ff16@j8g2000yql.googlegroups.com>
<d7Xwl.30779$5t4.22583@newsfe24.iad>
From: Lawrence Statton <yankeeinexile@gmail.com>
Message-ID: <m1iqm3t2ec.fsf@mac.gateway.2wire.net>
User-Agent: Gnus/5.11 (Gnus v5.11) Emacs/22.3 (darwin)
Cancel-Lock: sha1:8V9oaK39XhKpJQ8IrvQxvMgo8iM=
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Lines: 13
X-Complaints-To: abuse@WWWSpace.NET
NNTP-Posting-Date: Sat, 21 Mar 2009 13:46:02 UTC
Date: Sat, 21 Mar 2009 07:46:03 -0600
Xref: g2news1.google.com rec.radio.amateur.homebrew:2042

"Unca Pete" <radioconnection@cox.net> writes:
>
> I'll join the ARRL the day I can choose QEX over the QST
> forced subscription that comes with the membership.
>
> Pete k1zjh

Have you ever thought of JOINING ARRL, and using your position as
a member to petition for this change?

Change is made by those who participate.

--N1GAK

From -5463614916775065797
X-Google-Thread: fc2a5,d8f5c1e658b3c68d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
gnilink.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews3.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Mozilla-Thunderbird 2.0.0.19 (X11/20090103)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-

```
bdd0-49eba484eef0@w35g2000yqm.googlegroups.com>
<QX3wl.67367$FI5.20197@newsfe07.iad> <Xns9BD2BB30CC7EFwa2ise@69.16.185.252>
<9085826d-e72a-4cbe-9493-ff92406d552b@q18g2000vbn.googlegroups.com>
<bRVwl.18562$b9.1772@bignews6.bellsouth.net>
<x4Xwl.24362$yr3.21444@nlpi068.nbdc.sbc.com>
In-Reply-To: <x4Xwl.24362$yr3.21444@nlpi068.nbdc.sbc.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 56
Message-ID: <gG6xl.18580$v8.3165@bignews3.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcbodejmmfnccknakjkjfjcbmomclaoomcmmcd
iomnifaijnlfkbkkgjkafalphifcmloapdjinoploeaipieagmihhafnkeeehknimnploccabjmioa
NNTP-Posting-Date: Sat, 21 Mar 2009 10:17:48 EDT
Organization: BellSouth Internet Group
Date: Sat, 21 Mar 2009 10:24:44 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2340

Joerg wrote:
> ken scharf wrote:
>> JIMMIE wrote:
>>> On Mar 18, 9:24 pm, Robert casey <wa2...@ix.netcom.com> wrote:
>>>>> The design used plug-in coils for the osc and rf stages, and
>>>>  they were double conversion designs, with a first IF of
>>>>  1600 kc and a second IF of either 100 kc or 85 kc (when
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>> the junk box, but over the years the contacts have gone bad and now show
```

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>> switch the circuits. I recently found nearly a gross of small relays
>> for free so why not?
>
>
> Relays will most likely bring some grief over the years with contacts
> not conducting 100% and such. Better use band switching diodes or PIN
> diodes.
>

There is a trick with relays, they must conduct a minimum amount of current or the contacts won't self clean. Using relays to switch receiver input circuits that are only passing micro amps will eventually cause problems. But, if you bias the circuits with some resistors so the relay must switch at least a few milliamps they will last longer. Another idea if the relays are computer controlled would be to switch in a high current source (few hundred ma) before opening or closing the desired relays, then switch off the high current source. Relays should not be any worse than switches as far as contacts go, however rotary switches would tend to be self cleaning due to the wiping action. Relays are often used in switching low pass filers used after solid state finals. Here they ARE carrying high current (rf output) but not switching it.

```
From 6344371192939610188
X-Google-Thread: fc2a5,d8f5c1e658b3c68d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 21 Mar 2009 09:49:52 -0500
Date: Sat, 21 Mar 2009 14:50:19 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-
bdd0-49eba484eef0@w35g2000yqm.googlegroups.com>
<QX3wl.67367$FI5.20197@newsfe07.iad> <Xns9BD2BB30CC7EFwa2ise@69.16.185.252>
<9085826d-e72a-4cbe-9493-ff92406d552b@q18g2000vbn.googlegroups.com>
<bRVwl.18562$b9.1772@bignews6.bellsouth.net>
<x4Xwl.24362$yr3.21444@nlpi068.nbdc.sbc.com>
<gG6xl.18580$v8.3165@bignews3.bellsouth.net>
In-Reply-To: <gG6xl.18580$v8.3165@bignews3.bellsouth.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <pPadncoJ-fINY1nUnZ2dnUVZ8gyWnZ2d@pipex.net>
Lines: 25
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.71.168
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X-Trace: sv3-BXEvg2U72ZKrUrahYJP+HhrCMox+h+l730Pu0/aePKxQzemwpQpcSeCXOOn/
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Pk6RDkkH+ftjgshU59pl+G/yA!9nHfevolVZqRFJpuvPQvivgk/w==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2341

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> switches would tend to be self cleaning due to the wiping action.
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> state finals.  Here they ARE carrying high current (rf output) but not
> switching it.
=============================================
Had this relay switching problem with my (almost vintage) Ten Tec
Paragon trx (AD 1988) a few years ago and ordered a relay from TenTec ,
but never had to  change ,because the original relay cleared itself.
Would suggest to operate  an 'ailing' rx relay a number of times ,eg
10-20 times within a short period ; its contact(s) might then clear itself.

Frank     GM0CSZ / KN6WH



From 8051943159462480727
X-Google-Thread: fc2a5,3a78cb4828ccc76a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 21 Mar 2009 09:56:40 -0500
Date: Sat, 21 Mar 2009 14:57:09 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Nuvistor TV preamp mod
References: <b8ab8090-d338-4dfd-8857-6c49a4ec75a1@c36g2000yqn.googlegroups.com>
```

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<49c1b2d6$0$4955$9a6e19ea@unlimited.newshosting.com> <957da915-f5ac-40f5-b98c-
b755b8cc4c35@l16g2000yqo.googlegroups.com>
<426c859e-943c-4b09-86b8-32458300ff16@j8g2000yql.googlegroups.com>
<d7Xwl.30779$5t4.22583@newsfe24.iad>
In-Reply-To: <d7Xwl.30779$5t4.22583@newsfe24.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Vf2dnWcdK-q1nVjUnZ2dnUVZ8tOWnZ2d@pipex.net>
Lines: 32
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.71.168
X-Trace: sv3-CULpWNK5dZm+be66/GkJPzyzF+TQtJWfZQg0Apf7ZkdJOumsRjwI9MapZn5O6HgR1Uru/
JNWVgQctdo!3F3vvOTii6tx+1kfPD+GNL3Hsv6BlGBMoLCad6TDTbdztG2MCtdkpo8a9u0dM/
OzxshbGWwjT9ar!15RkiXo0j3vPQSzwBoC1zaUN4Q==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2342

Unca Pete wrote:
> "Tim Shoppa" <shoppa@trailing-edge.com> wrote in message news:426c859e-943c
> You can download all the above for free from the ARRL if you log in
> with your member ID. With all the old QST's available on the web,
> everyone ought to be a member!
>
> Tim N3QE
>
> I'll join the ARRL the day I can choose QEX over the QST
> forced subscription that comes with the membership.
>
> Pete k1zjh
>========================================================================
Have you ever thought of JOINING ARRL, and using your position as
a member to petition for this change?

Change is made by those who participate.

--N1GAK
===============================
Agree with that ,although ARRL members should have a choice.
If they prefer QEX over QST they should have that option.
ARRL news is sent weekly  by e-mail upon request .Moreover, members can
access QST articles via the ARRL web site, and also can access QEX articles.

Living in the UK I have opted for the annual CD-ROM ,which is published
in March ,including QST , QEX and the Contest Mag. covering the past
calendar year     ,which suits me fine.
However I believe this option is not available to US residents .
Perhaps something to go for.
```

Frank   GM0CSZ / KN6WH

From -2072283382509857205
X-Google-Thread: fc2a5,3a78cb4828ccc76a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe13.iad.POSTED!7564ea0f!not-for-mail
From: "Unca Pete" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <b8ab8090-d338-4dfd-8857-6c49a4ec75a1@c36g2000yqn.googlegroups.com> <49c1b2d6$0$4955$9a6e19ea@unlimited.newshosting.com> <957da915-f5ac-40f5-b98c-b755b8cc4c35@l16g2000yqo.googlegroups.com> <426c859e-943c-4b09-86b8-32458300ff16@j8g2000yql.googlegroups.com> <d7Xwl.30779$5t4.22583@newsfe24.iad> <m1iqm3t2ec.fsf@mac.gateway.2wire.net>
Subject: Re: Nuvistor TV preamp mod
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <NN7xl.71073$Tp5.62094@newsfe13.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
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NNTP-Posting-Date: Sat, 21 Mar 2009 15:34:05 UTC
Organization: Cox
Date: Sat, 21 Mar 2009 11:33:47 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2343

"Lawrence Statton" <yankeeinexile@gmail.com> wrote in message
news:m1iqm3t2ec.fsf@mac.gateway.2wire.net...
> "Unca Pete" <radioconnection@cox.net> writes:
>> > Have you ever thought of JOINING ARRL, and using your position as
> a member to petition for this change?
>
> Change is made by those who participate.
>
> --N1GAK

The name of the game is $$$$$.

They'd lose advertising revenues if folks were given the
choice. I vote with my WALLET; and I let them know it.
QST has been dumbed down to meet the needs of the
new 2x1 callsign holders--the ones who can't figure the
out how make a dipole or solder a PL-259. And the
fact they destroyed the competition (Communications
Quarterly) doesn't sit well with many of us.

Pete k1zjh

From -7616203400324195059
X-Google-Thread: fc2a5,3a78cb4828ccc76a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news2.glorb.com!
news.litech.org!not-for-mail
From: mikea <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Nuvistor TV preamp mod
Date: Sat, 21 Mar 2009 12:23:11 -0500
Organization: Litech Systems Design
Lines: 43
Sender: mikea@mikea.ath.cx
Approved: YouBetcherArse@example.com
Message-ID: <vckf96-mcd2.ln1@mikea.ath.cx>
References: <b8ab8090-d338-4dfd-8857-6c49a4ec75a1@c36g2000yqn.googlegroups.com>
<49c1b2d6$0$4955$9a6e19ea@unlimited.newshosting.com> <957da915-f5ac-40f5-b98c-
b755b8cc4c35@l16g2000yqo.googlegroups.com>
<426c859e-943c-4b09-86b8-32458300ff16@j8g2000yql.googlegroups.com>
<d7Xwl.30779$5t4.22583@newsfe24.iad> <Vf2dnWcdK-q1nVjUnZ2dnUVZ8tOWnZ2d@pipex.net>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1237656256 31235 70.164.65.62 (21 Mar 2009 17:24:16 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Sat, 21 Mar 2009 17:24:16 +0000 (UTC)
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (FreeBSD/7.1-RELEASE (i386))
Xref: g2news1.google.com rec.radio.amateur.homebrew:2047

Highland Ham <rfburns@allbands.net> wrote in <Vf2dnWcdK-
q1nVjUnZ2dnUVZ8tOWnZ2d@pipex.net>:
> Unca Pete wrote:
>> "Tim Shoppa" <shoppa@trailing-edge.com> wrote in message news:426c859e-943c
>> You can download all the above for free from the ARRL if you log in
>> with your member ID. With all the old QST's available on the web,
>> everyone ought to be a member!
>>
>> Tim N3QE
>>
>> I'll join the ARRL the day I can choose QEX over the QST
>> forced subscription that comes with the membership.
>>
>> Pete k1zjh
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> Have you ever thought of JOINING ARRL, and using your position as
> a member to petition for this change?
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> Change is made by those who participate.
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> ===============================
> Agree with that ,although ARRL members should have a choice.
> If they prefer QEX over QST they should have that option.
> ARRL news is sent weekly by e-mail upon request .Moreover, members can
> access QST articles via the ARRL web site, and also can access QEX articles.

Erm ... while I dislike contradicting you directly, I just tried to download a
QEX article, afer logging in to my ARRL.net account, and got the following:

: The ARRL Periodicals Archive and Search is both an index of articles and an
archive of downloadable material. However, not everything in the index is
available for download.
:
: The item you requested is not in the archive of downloadable information. This
may be because:
:
:   * Most QST material newer than 2005 is not available for download
:   * QEX, NCJ and Ham Radio material is not available for download

I subscribe to QEX as well as QST, and really would like QEX to be downloadable.
I see in my future a letter to the Powers That Be.

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From 9045515131273970659
X-Google-Thread: fc2a5,d8f5c1e658b3c68d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!flpi144.ffdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-bdd0-49eba484eef0@w35g2000yqm.googlegroups.com>
<QX3wl.67367$FI5.20197@newsfe07.iad> <Xns9BD2BB30CC7EFwa2ise@69.16.185.252>
<9085826d-e72a-4cbe-9493-ff92406d552b@q18g2000vbn.googlegroups.com>
<bRVwl.18562$b9.1772@bignews6.bellsouth.net>
<x4Xwl.24362$yr3.21444@nlpi068.nbdc.sbc.com>
<gG6xl.18580$v8.3165@bignews3.bellsouth.net>
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Content-Transfer-Encoding: 7bit
Lines: 73
Message-ID: <bubxl.10257$jZ1.9376@flpi144.ffdc.sbc.com>

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X-Trace: flpi144.ffdc.sbc.com 1237664775 ST000 75.26.191.139 (Sat, 21 Mar 2009
15:46:15 EDT)
NNTP-Posting-Date: Sat, 21 Mar 2009 15:46:15 EDT
Organization: at&t http://my.att.net/
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Date: Sat, 21 Mar 2009 12:46:06 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:2048

ken scharf wrote:
> Joerg wrote:
>> ken scharf wrote:
>>> JIMMIE wrote:
>>>> On Mar 18, 9:24 pm, Robert casey <wa2...@ix.netcom.com> wrote:
>>>>>> The design used plug-in coils for the osc and rf stages, and
>>>>>  they were double conversion designs, with a first IF of
>>>>>  1600 kc and a second IF of either 100 kc or 85 kc (when
>>>>>  using surplus ARC-5 IFTs.)  The 1800 mc xtal you bought
>>>>>  your dad was used for the second coversion osc. to convert
>>>>>  the 1600 kc IF down to 100 kc.  Many hams deviated from
>>>>>  the exact original IF frequencies (i.e. strong local BC
>>>>>  station on 1600 kc) which might explain why the xtal
>>>>>
>>>>>> was chosen for 1800 kc instead of 1500 or 1700.
>>>>> We have a local mid power station at 1600KHz, WWRL, at my parents'
>>>>> house,
>>>>> so my father might have wanted to avoid problems with it.
>>>>>
>>>>> His radio had a bandswitch instead of plug in coils, and he'd receive
>>>>> various broadcast SW stations.  He wasn't a ham at the time just yet.
>>>>
>>>> I had a friend who was a retired engineer with GE turned TV tech who
>>>> built
>>>> one with a band switch and he later modified it to
>>>> be more of a general purpose SW receiver. His name was Olin Griggs.
>>>>
>>>>
>>>> Jimmie.
>>> I once saw an article in 73 magazine showing a HB receiver that used
>>> a re-worked turret tv tuner as a band switch.  The coils were
>>> re-wound onto the original forms, but some have just replaced the
>>> forms with some
>>> of the smaller sized toroid cores.  I have a bunch of old tv tuners in
>>> the junk box, but over the years the contacts have gone bad and now show
>>> a high resistance.   Maybe they could be cleaned up, but it no longer
>>> seems worth the effort.  My new idea is to use miniature relays to
>>> switch the circuits.  I recently found nearly a gross of small relays
>>> for free so why not?
>>
```

>>
>> Relays will most likely bring some grief over the years with contacts
>> not conducting 100% and such. Better use band switching diodes or PIN
>> diodes.
>>
> There is a trick with relays, they must conduct a minimum amount of
> current or the contacts won't self clean. Using relays to switch
> receiver input circuits that are only passing micro amps will eventually
> cause problems. But, if you bias the circuits with some resistors so
> the relay must switch at least a few milliamps they will last longer.
> Another idea if the relays are computer controlled would be to switch in
> a high current source (few hundred ma) before opening or closing the
> desired relays, then switch off the high current source. Relays should
> not be any worse than switches as far as contacts go, however rotary
> switches would tend to be self cleaning due to the wiping action.
> Relays are often used in switching low pass filers used after solid
> state finals. Here they ARE carrying high current (rf output) but not
> switching it.

Yeah, I wish the designers of the NRD-515 here had known that as well.
Every few months a relay will become "sticky". The S-meter drops to
zilch, rock the attenuator switch 5-10 times, and it's back :-(

Relays with some current are ok but I prefer the electronic method. PIN
diodes with lots of current and plenty of carrier lifetime usually work.
One just has to make sure there aren't any rectification effects that
can cause IM or harmonics in the presence of strong signals. FET
switches are sometimes a good deal as well but since the SD5000 and
SD5400 have gone towards high-priced boutique status not so much anymore.

--
73, Joerg

From -401037778902537465
X-Google-Thread: fc2a5,d8f5c1e658b3c68d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!r28g2000vbp.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
Date: Sat, 21 Mar 2009 13:58:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 51
Message-ID: <9364817a-7a42-475a-a510-a974d4cd16fb@r28g2000vbp.googlegroups.com>
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-bdd0-49eba484eef0@w35g2000yqm.googlegroups.com>
<QX3wl.67367$FI5.20197@newsfe07.iad> <Xns9BD2BB30CC7EFwa2ise@69.16.185.252>
<9085826d-e72a-4cbe-9493-ff92406d552b@q18g2000vbn.googlegroups.com>
<bRVwl.18562$b9.1772@bignews6.bellsouth.net>

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NNTP-Posting-Date: Sat, 21 Mar 2009 20:58:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r28g2000vbp.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2346

On Mar 20, 6:47=A0pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
> JIMMIE wrote:
> > On Mar 18, 9:24 pm, Robert casey <wa2...@ix.netcom.com> wrote:
> >>> The design used plug-in coils for the osc and rf stages, and
> >> =A0they were double conversion designs, with a first IF of
> >> =A01600 kc and a second IF of either 100 kc or 85 kc (when
> >> =A0using surplus ARC-5 IFTs.) =A0The 1800 mc xtal you bought
> >> =A0your dad was used for the second coversion osc. to convert
> >> =A0the 1600 kc IF down to 100 kc. =A0Many hams deviated from
> >> =A0the exact original IF frequencies (i.e. strong local BC
> >> =A0station on 1600 kc) which might explain why the xtal
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se,
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. =A0
>
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>
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> of the smaller sized toroid cores. =A0I have a bunch of old tv tuners in
> the junk box, but over the years the contacts have gone bad and now show
> a high resistance. =A0 Maybe they could be cleaned up, but it no longer
> seems worth the effort. =A0My new idea is to use miniature relays to
> switch the circuits. =A0I recently found nearly a gross of small relays
> for free so why not?- Hide quoted text -
>
```

> - Show quoted text -

I tried the TV tuner trick one time and it didnt work well at all.
Most tuners are tossed because the contacts fail. Various contact
cleaners will only help for a while because wor out is worn out and
there is not a long term fix you can do for them. The exception to
this was a very old one I found that was at least as big or bigger
than a shoe box. Shame on me but I used one like this to build my own
CB radio tx. I was using it to switch crystals and trimmer caps for
the osc.

Jimmie

From -341734876526145167
X-Google-Thread: fc2a5,d8f5c1e658b3c68d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!newshub.sdsu.edu!
flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!nlpi068.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-
bdd0-49eba484eef0@w35g2000yqm.googlegroups.com>
<QX3wl.67367$FI5.20197@newsfe07.iad> <Xns9BD2BB30CC7EFwa2ise@69.16.185.252>
     <9085826d-e72a-4cbe-9493-ff92406d552b@q18g2000vbn.googlegroups.com>
     <bRVwl.18562$b9.1772@bignews6.bellsouth.net> <9364817a-7a42-475a-a510-
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X-Trace: nlpi068.nbdc.sbc.com 1237669890 ST000 75.26.191.139 (Sat, 21 Mar 2009
17:11:30 EDT)
NNTP-Posting-Date: Sat, 21 Mar 2009 17:11:30 EDT
Organization: at&t http://my.att.net/
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QCOA_SAH@TPD^\AL\RLGRFWEARBM
Date: Sat, 21 Mar 2009 14:11:21 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:2050

JIMMIE wrote:

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>> for free so why not?- Hide quoted text -
>>
>> - Show quoted text -
>
> I tried the TV tuner trick one time and it didnt work well at all.
> Most tuners are tossed because the contacts fail. ...

Not really. Back then TVs were often tossed because the flyback xfmr had
blown and repair was deemed uneconomical. Or someone said that because
in reality they wanted that brand spanking new set that was one sale.

But this is so long ago that if there's any left the contacts will have
corrodes away.

[...]

--
73, Joerg

From 7332644148199649198
X-Google-Thread: fc2a5,d8f5c1e658b3c68d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet

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mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
Date: Sat, 21 Mar 2009 14:21:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 112
Message-ID: <6ebc24d7-9c72-46c5-bcb4-b7b7dd4c459c@z6g2000pre.googlegroups.com>
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Complaints-To: groups-abuse@google.com
Injection-Info: z6g2000pre.googlegroups.com; posting-host=207.200.116.11;
     posting-account=0Q4qJQoAAAB4vjIbnPnpY8JqAcYZv7Os
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
     SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
3.0.04506),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-ntc-ta06.proxy.aol.com[CFC87006] (Prism/1.2.1), HTTP/1.1
     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:2051
```

```
"Joerg" posted on Fri, Mar 20 2009 6:06 pm

>ken scharf wrote:
>> JIMMIE wrote:
>>> On Mar 18, 9:24 pm, Robert casey <wa2...@ix.netcom.com> wrote:

>> I once saw an article in 73 magazine showing a HB receiver that used a
>> re-worked turret tv tuner as a band switch.  The coils were re-wound
>> onto the original forms, but some have just replaced the forms with some
>> of the smaller sized toroid cores.  I have a bunch of old tv tuners in
>> the junk box, but over the years the contacts have gone bad and now show
>> a high resistance.   Maybe they could be cleaned up, but it no longer
>> seems worth the effort.  My new idea is to use miniature relays to
>> switch the circuits.  I recently found nearly a gross of small relays
>> for free so why not?
>
>Relays will most likely bring some grief over the years with contacts
>not conducting 100% and such. Better use band switching diodes or PIN
```

>diodes.

I disagree based on some experience in environmentally testing relays ranging from high-power to low-power to 'choppers' in so-called stabilized
(DC) amplifiers for military avionics, then doing comparative testing against the cheaper commercial relay designs on the market over 50 years
ago.

About the only "grief" is one can get is failure to wire it correctly or
not understanding what relay contacts acually do or how to power their actuating coils.

Power relays CAN result in contact pitting and poor resistance as a result
of many multiple activations while carrying inductive loads of many Amperes of current with resulting very high voltage back-EMF ('flyback')
conditions on contact separation. That is NOT the case with receiver bandswitching applications. Not even close.

There are some unusual contact effects in so-called "dry" circuits carrying femtoAmpere currents or less but those won't affect high-impedance input and output circuits common to vacuum tubes. One of the
better choices for no-nonsense, easier to implement bandswitch conversions without much cost is to use modern, easy-to-get small relays
requiring only 100 to 150 mW coil powers, available in coil operating voltage increments of 6, 12, 18, 24 VDC...or, if salvaging older tube equipment, the "plate relays" of a half century ago designed for higher
12 to 30 VDC, comparable powers for a few mA of plate current in coils.
[much harder to get now given all electronics is firmly in the solid-state era starting over 40 years ago] Some relay makers, such as Omron, are widely used in electronics, especially for automotive applications and are found listed in all major distributor catalogs.

Relay contacts can easily withstand 200 to 400 VDC stock of now v. old (half-century ago). The make or break contacts do NOT involve any unusual RF impedance characteristics other than a few pFd of capacitance
equivalent to ordinary point-to-point wiring or the lead-length inductance of some short point-to-point wire inductance in the low nanoHy range. It has an excellent open or closed contact condition with excellent isolation between actuating coil and contact set.

By contrast, conventional rotary bandswitch structures designed around 60 to 70 years ago, are open to all sorts of contamination, including OXIDATION of contacts plus wear of typically cheap contact construction of a bygone era. Sealed or semi-sealed rotary switch wafers of the post-WWII era have much longer life than the old open-to-everything wafer designs that may look good in their first half decade, then degrade from oxidation after that, before normal wear effects show up.

Based on over a decade of using the TV channel "turret tuner" (such as the cheap products of Standard Coil tuners of long ago) types just for TV channel selection, I wouldn't try to convert those to anything else than scrap. I'm being kind on that evaluation. The MECHANICS of such turret tuners may look good, but VHF-UHF circuits don't work on either mechanics or appearance. HF circuits might squeak by, but the typical contact set of turret tuners was never optimized for either wear or contact resistance. It was 'optimized' entirely for maximum profit from lowest-possible cost of components in a highly-competitive TV market of long ago.

Today there are a number of inexpensive small relays used in HF radio equipment, especially in automatic antenna tuners (used for switching banks of binary-progression-values of inductors and capacitors) from direct microcontroller control of actuating coils. Those work very well and show no degredation running with 100 W of RF or more at 50 Ohm impedances. Millions of automobiles on the road today are tooling around with little packages of relays controlling everything from headlights to sensor selection in adverse temperature ranges and high vibration, no real problems from those relays.

In short, small semi-sealed low-power relays are FINE for vacuum tube circuit switching in homebrew electronics, properly applied. They can easily replace most rotary bandswitching applications in layout with less stray circuit series-inductance and parallel-to-ground capacitance than with point-to-point wiring.

73, Len AF6AY
LenAnderson@ieee.org

From 103452648611199691
X-Google-Thread: fc2a5,e8a250ae4a42ab1
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!f9g2000vbf.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Icom R1500 USB driver, intermittent, audio dead
Date: Sat, 21 Mar 2009 14:23:26 -0700 (PDT)

Organization: http://groups.google.com
Lines: 37
Message-ID: <0d0c0526-154a-4950-af2c-314354452014@f9g2000vbf.googlegroups.com>
References: <3dWwl.14783$W06.8779@flpi148.ffdc.sbc.com>
NNTP-Posting-Host: 165.254.210.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1237670606 12068 127.0.0.1 (21 Mar 2009 21:23:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 21 Mar 2009 21:23:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f9g2000vbf.googlegroups.com; posting-host=165.254.210.4;
    posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
    CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2349

On Mar 20, 8:07=A0pm, Joerg <notthisjoerg...@removethispacbell.net>
wrote:
> Hello Folks,
>
> Has anyone ever had this happen and maybe knows what could be wrong?
>
> The Icom R1500 behaves like a PCR1500 when controlled via the PC. Or so
> says Icom. When I try to control it through the virtual COM3 port via
> USB it seems to have lots of data traffic jams. If I turn the "virtual"
> dial too fast the R1500 seems to lag. Sometimes it doesn't react at all
> and seconds later starts slowly tuning through all the frequencies I had
> chosen. This can go on for half a minute until it has trundled out.
>
> Audio is supposed to go via the same USB cable but not as a serial COM
> port. Well, that part doesn't work at all, no audio.
>
> --
> 73, Joerg

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much data. I changed the way the radio was tuned by installing virtual
buttons over and under each digit of thee display. Clicking on one of
these buttons would increase/decrease the frequency by
10,100,1000.....Hz.

Something that may cause a similar problem might be if the baud rate
is not set high enough on the radio. I believe on mine you could
select 2400 or 9600 baud. My software worked much better at 9600 baud.
At a slower baud rate I could click a frequency increase buton 3 times
then look at my radio and see them change the radio there was so much
delay.

Jimmie

```
From 2013056525153581477
X-Google-Thread: fc2a5,e8a250ae4a42ab1
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
gnilink.net!newsfeed.news2me.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi068.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Icom R1500 USB driver, intermittent, audio dead
References: <3dWwl.14783$W06.8779@flpi148.ffdc.sbc.com> <0d0c0526-154a-4950-
af2c-314354452014@f9g2000vbf.googlegroups.com>
In-Reply-To: <0d0c0526-154a-4950-af2c-314354452014@f9g2000vbf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 48
Message-ID: <d_cxl.24424$yr3.5143@nlpi068.nbdc.sbc.com>
NNTP-Posting-Host: 75.26.191.139
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi068.nbdc.sbc.com 1237670921 ST000 75.26.191.139 (Sat, 21 Mar 2009
17:28:41 EDT)
NNTP-Posting-Date: Sat, 21 Mar 2009 17:28:41 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
Q[R_PJON_ZUYB_TY]ZKTOFTBTR\B@GXLN@GZ_GYO^BSZUSAANVUEAE[YETZPIWWI[FCIZA^NBFXZ_D[BFN
TCNVPDTNTKHWXKB@X^B_OCJLPZ@ET_O[G\XSG@E\G[ZKVLBL^CJINM@I_KVIOR\T_M_AW_M[_BWU_HFA_]
@A_A^SGFAUDE_DFTMQPFWVW[QPJN
Date: Sat, 21 Mar 2009 14:28:32 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2350
```

JIMMIE wrote:

> On Mar 20, 8:07 pm, Joerg <notthisjoerg...@removethispacbell.net>
> wrote:
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>>
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>> and seconds later starts slowly tuning through all the frequencies I had
>> chosen. This can go on for half a minute until it has trundled out.
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> At a slower baud rate I could click a frequency increase buton 3 times
> then look at my radio and see them change the radio there was so much
> delay.
>

I think the default baud rate of the R1500 is 38400 baud. Should be
plenty. But you could be right, there may be a buffer overflow somewhere
and then it chokes. Sometimes when it has finally trundled out it sits
at the final frequency but the mode didn't switch.

All I really want to do is use the set as a spectrum analyzer, at least
most of the time. And I am really wondering why the USB packet data
doesn't work at all.

--
73, Joerg

From 3870235787159889088
X-Google-Thread: fc2a5,d8f5c1e658b3c68d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!o2g2000prl.googlegroups.com!not-for-mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my fatehr's homebrew double conversion SW receiver a HBR?
Date: Sat, 21 Mar 2009 14:36:12 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <003f3a46-d0a5-4037-9b62-18e609ed5df2@o2g2000prl.googlegroups.com>
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8

```
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1237671372 14501 127.0.0.1 (21 Mar 2009 21:36:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 21 Mar 2009 21:36:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o2g2000prl.googlegroups.com; posting-host=207.200.116.11;
     posting-account=0Q4qJQoAAAB4vjIbnPnpY8JqAcYZv7Os
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
     SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
3.0.04506),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-ntc-td06.proxy.aol.com[CFC87066] (Prism/1.2.1), HTTP/1.1
     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news2.google.com rec.radio.amateur.homebrew:2351

On Mar 17, 10:12=EF=BF=BDpm, Robert casey <wa2...@ix.netcom.com> wrote:
> Looking thru a friend's Feb 2009 QST, saw an article on the W6TC "HBR"
> double conversion homebrew radio. =EF=BF=BDWhich my father may have built=
 a copy
> of. =EF=BF=BDI no longer have that radio, but looking at the pictures of =
teh sets
> in the QST article, it looks very similar to what my father built. =EF=BF=
=BDI do
> remember that he used a 1.8MHz crystal for what might have been the 1st I=
F
> to 2nd IF conversion mixer. =EF=BF=BDI also remember, in the mid 60's (I =
was in
> grammar school) getting this crystal for my father as an Xmas gift (well,=
 I
> gave him money that he used to order the crystal, I would not have been o=
ld
> enough to know how to mail order stuff myself yet). =EF=BF=BD
>
> Anyway, did the HBR use a crystal of a frequency like this as a conversio=
n
> local osc mixer? =EF=BF=BDOr maybe the crystal wasn't in an oscillator ci=
rcuit, but
> maybe as a bandpass filter? =EF=BF=BD

Bob, try www.qsl.net/k5bcq/HBR/hbr.html for a rather complete
collection of
Home Brew Receiver photos, schematics, details, hints&kinks, etc.,
which is Kees Talen's website.  It isn't as squashed together as QST
articles (which don't cover all the HBR versions) nor does it have the
extra 450 KB warning page present with QST article downloads.

73, Len AF6AY


From 4460084598588265808
X-Google-Thread: fc2a5,e8a250ae4a42ab1
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
```

```
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!u1g2000vbb.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Icom R1500 USB driver, intermittent, audio dead
Date: Sat, 21 Mar 2009 15:15:01 -0700 (PDT)
Organization: http://groups.google.com
Lines: 67
Message-ID: <3fffbb9c-a88a-4b62-a8f2-e9cdfe01a935@u1g2000vbb.googlegroups.com>
References: <3dWwl.14783$W06.8779@flpi148.ffdc.sbc.com> <0d0c0526-154a-4950-
af2c-314354452014@f9g2000vbf.googlegroups.com>
     <d_cxl.24424$yr3.5143@nlpi068.nbdc.sbc.com>
NNTP-Posting-Host: 165.254.211.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1237673702 11537 127.0.0.1 (21 Mar 2009 22:15:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 21 Mar 2009 22:15:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u1g2000vbb.googlegroups.com; posting-host=165.254.211.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2352

On Mar 21, 5:28=A0pm, Joerg <notthisjoerg...@removethispacbell.net>
wrote:
> JIMMIE wrote:
> > On Mar 20, 8:07 pm, Joerg <notthisjoerg...@removethispacbell.net>
> > wrote:
> >> Hello Folks,
>
> >> Has anyone ever had this happen and maybe knows what could be wrong?
>
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> >> dial too fast the R1500 seems to lag. Sometimes it doesn't react at al=
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> >> and seconds later starts slowly tuning through all the frequencies I h=
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> >> chosen. This can go on for half a minute until it has trundled out.
>
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> >> --
> >> 73, Joerg
```

>
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> All I really want to do is use the set as a spectrum analyzer, at least
> most of the time. And I am really wondering why the USB packet data
> doesn't work at all.
>
> --
> 73, Joerg- Hide quoted text -
>
> - Show quoted text -

Yes, Sorry I wasnt thinking about it being USB and it sounded so much
like the problem I had. I wrote the program before USB ports were
around.
Have you tried another computer, remember you are running Windoze.
 I was thinking of getting one of those radios as I listen a lot more
than Im on the air. The earilest radio I have is nearly 20 years old
huge and clunky. Besides the computer interface not working as
expected what do you thin of the radio?

Jimmie

From 7704887066532275708
X-Google-Thread: fc2a5,e8a250ae4a42ab1
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
gnilink.net!newsfeed.news2me.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
flpi148.ffdc.sbc.com.POSTED!78df62d6!not-for-mail

From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
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References: <3dWwl.14783$W06.8779@flpi148.ffdc.sbc.com> <0d0c0526-154a-4950-af2c-314354452014@f9g2000vbf.googlegroups.com>
<d_cxl.24424$yr3.5143@nlpi068.nbdc.sbc.com> <3fffbb9c-a88a-4b62-a8f2-e9cdfe01a935@u1g2000vbb.googlegroups.com>
In-Reply-To: <3fffbb9c-a88a-4b62-a8f2-e9cdfe01a935@u1g2000vbb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 77
Message-ID: <bHexl.14852$W06.14180@flpi148.ffdc.sbc.com>
NNTP-Posting-Host: 75.26.191.139
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi148.ffdc.sbc.com 1237677895 ST000 75.26.191.139 (Sat, 21 Mar 2009 19:24:55 EDT)
NNTP-Posting-Date: Sat, 21 Mar 2009 19:24:55 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
SCSYQN_@FS@GRQ\Y\ZJB^WTAUKXD@D@MGPW^OBPLAH[\RSAANVUEAE[YETZPIWWI[FCIZA^NBFXZ_D[BFNTCNVPDTNTKHWXKB@X^B_OCJLPZ@ET_O[G\XSG@E\G[ZKVLBL^CJINM@I_KVIOR\T_M_AW_M[_BWU_HFA_]@A_A^SGFAUDE_DFTMQPFWVW[QPJN
Date: Sat, 21 Mar 2009 16:24:46 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:2056

JIMMIE wrote:
> On Mar 21, 5:28 pm, Joerg <notthisjoerg...@removethispacbell.net>
> wrote:
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>> and then it chokes. Sometimes when it has finally trundled out it sits
>> at the final frequency but the mode didn't switch.
>>
>> All I really want to do is use the set as a spectrum analyzer, at least
>> most of the time. And I am really wondering why the USB packet data
>> doesn't work at all.
>>
>> --
>> 73, Joerg- Hide quoted text -
>>
>> - Show quoted text -
>
> Yes, Sorry I wasnt thinking about it being USB and it sounded so much
> like the problem I had. I wrote the program before USB ports were
> around.

Well, it is USB but inside is a bridge. One data stream is serial and
(via the driver) the PC sees that as a regular COM port. The other part
is a USB packet stream. Or, in my case, should have been. Both via the
same USB plug.

> Have you tried another computer, remember you are running Windoze.
> I was thinking of getting one of those radios as I listen a lot more
> than Im on the air. The earilest radio I have is nearly 20 years old
> huge and clunky. Besides the computer interface not working as
> expected what do you thin of the radio?
>

It's pretty good. Does have some issues with very strong signals, I have
some TV stations burst into non-TV VHF, for example. Sensitivity above a
GHz or so is pretty poor but there ain't much there anyhow. The hardware
seems ok but the software that Icom supplied is not, IMHO. Also, this
radio could be a really nice spectrum analyzer but Icom doesn't seem to
understand the market potential there. Thinking outside the box may not
be their strength. So WinRadio is going to eat their lunch in that domain.

I bought it at AES. I'd go for the best price, "bonus" software such as
Bonito is IMHO not worth it.

--
73, Joerg

```
From 4826496659273287717
X-Google-Thread: fc2a5,d8f5c1e658b3c68d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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border1.newsrouter.astraweb.com!flph200.ffdc.sbc.com!prodigy.net!
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78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-
bdd0-49eba484eef0@w35g2000yqm.googlegroups.com>
<QX3wl.67367$FI5.20197@newsfe07.iad> <Xns9BD2BB30CC7EFwa2ise@69.16.185.252>
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     <bRVwl.18562$b9.1772@bignews6.bellsouth.net>
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b7b7dd4c459c@z6g2000pre.googlegroups.com>
In-Reply-To: <6ebc24d7-9c72-46c5-bcb4-b7b7dd4c459c@z6g2000pre.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
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Message-ID: <UNexl.10286$%54.8159@nlpi070.nbdc.sbc.com>
NNTP-Posting-Host: 75.26.191.139
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi070.nbdc.sbc.com 1237678324 ST000 75.26.191.139 (Sat, 21 Mar 2009
19:32:04 EDT)
NNTP-Posting-Date: Sat, 21 Mar 2009 19:32:04 EDT
Organization: at&t http://my.att.net/
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PLSA[CCFAULEY\FL\VLGANTQQ]FN
Date: Sat, 21 Mar 2009 16:31:54 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:2057

AF6AY wrote:
> "Joerg" posted on Fri, Mar 20 2009 6:06 pm
>
>> ken scharf wrote:
>>> JIMMIE wrote:
>>>> On Mar 18, 9:24 pm, Robert casey <wa2...@ix.netcom.com> wrote:
>
>>> I once saw an article in 73 magazine showing a HB receiver that used a
>>> re-worked turret tv tuner as a band switch.  The coils were re-wound
>>> onto the original forms, but some have just replaced the forms with some
>>> of the smaller sized toroid cores.  I have a bunch of old tv tuners in
>>> the junk box, but over the years the contacts have gone bad and now show
>>> a high resistance.   Maybe they could be cleaned up, but it no longer
>>> seems worth the effort.  My new idea is to use miniature relays to
>>> switch the circuits.  I recently found nearly a gross of small relays
```

>>> for free so why not?
>> Relays will most likely bring some grief over the years with contacts
>> not conducting 100% and such. Better use band switching diodes or PIN
>> diodes.
>
> I disagree based on some experience in environmentally testing relays
> ranging from high-power to low-power to 'choppers' in so-called
> stabilized
> (DC) amplifiers for military avionics, then doing comparative testing
> against the cheaper commercial relay designs on the market over 50
> years
> ago.
>
> About the only "grief" is one can get is failure to wire it correctly
> or
> not understanding what relay contacts acually do or how to power their
> actuating coils.
>
> Power relays CAN result in contact pitting and poor resistance as a
> result
> of many multiple activations while carrying inductive loads of many
> Amperes of current with resulting very high voltage back-EMF
> ('flyback')
> conditions on contact separation. That is NOT the case with receiver
> bandswitching applications. Not even close.
>
> There are some unusual contact effects in so-called "dry" circuits
> carrying femtoAmpere currents or less but those won't affect high-
> impedance input and output circuits common to vacuum tubes. One of
> the
> better choices for no-nonsense, easier to implement bandswitch
> conversions without much cost is to use modern, easy-to-get small
> relays
> requiring only 100 to 150 mW coil powers, available in coil operating
> voltage increments of 6, 12, 18, 24 VDC...or, if salvaging older tube
> equipment, the "plate relays" of a half century ago designed for
> higher
> 12 to 30 VDC, comparable powers for a few mA of plate current in
> coils.
> [much harder to get now given all electronics is firmly in the solid-
> state era starting over 40 years ago] Some relay makers, such as
> Omron, are widely used in electronics, especially for automotive
> applications and are found listed in all major distributor catalogs.
>
> Relay contacts can easily withstand 200 to 400 VDC stock of now v. old
> (half-century ago). The make or break contacts do NOT involve any
> unusual RF impedance characteristics other than a few pFd of
> capacitance
> equivalent to ordinary point-to-point wiring or the lead-length
> inductance of some short point-to-point wire inductance in the low
> nanoHy range. It has an excellent open or closed contact condition
> with excellent isolation between actuating coil and contact set.
>

> By contrast, conventional rotary bandswitch structures designed around
> 60 to 70 years ago, are open to all sorts of contamination, including
> OXIDATION of contacts plus wear of typically cheap contact
> construction
> of a bygone era. Sealed or semi-sealed rotary switch wafers of the
> post-WWII era have much longer life than the old open-to-everything
> wafer designs that may look good in their first half decade, then
> degrade from oxidation after that, before normal wear effects show up.
>
> Based on over a decade of using the TV channel "turret tuner" (such as
> the cheap products of Standard Coil tuners of long ago) types just for
> TV channel selection, I wouldn't try to convert those to anything else
> than scrap. I'm being kind on that evaluation. The MECHANICS of such
> turret tuners may look good, but VHF-UHF circuits don't work on either
> mechanics or appearance. HF circuits might squeak by, but the typical
> contact set of turret tuners was never optimized for either wear or
> contact resistance. It was 'optimized' entirely for maximum profit
> from
> lowest-possible cost of components in a highly-competitive TV market
> of
> long ago.
>
> Today there are a number of inexpensive small relays used in HF radio
> equipment, especially in automatic antenna tuners (used for switching
> banks of binary-progression-values of inductors and capacitors) from
> direct microcontroller control of actuating coils. Those work very
> well
> and show no degredation running with 100 W of RF or more at 50 Ohm
> impedances. Millions of automobiles on the road today are tooling
> around
> with little packages of relays controlling everything from headlights
> to
> sensor selection in adverse temperature ranges and high vibration, no
> real problems from those relays.
>
> In short, small semi-sealed low-power relays are FINE for vacuum tube
> circuit switching in homebrew electronics, properly applied. They can
> easily replace most rotary bandswitching applications in layout with
> less stray circuit series-inductance and parallel-to-ground
> capacitance
> than with point-to-point wiring.
>

Relays are ok in those applications, where there are actual currents
flowing. What I meant was pure signal switching with no DC currents.
Sealed relays, Reeds, mercury-wetted and such work quite well there. But
non-sealed versions have issues and a snap-on plastic cap ain't a seal.
Those problems became really nasty after we moved across an ocean and
all this stuff was in a sea container for two months. After that almost
all the band switching relays had problems, had to clean all of them.
Now I am down to one sticky relay every couple month or so. Some I have
replaced with PIN diode circuits and that, of course, made the issues
completely go away. But it's always a hassle to do in an exisitng circuit.

--
73, Joerg

From -6576554396434349064
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X-Google-Language: ENGLISH,ASCII-7-bit
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From: "Unca Pete" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-bdd0-49eba484eef0@w35g2000yqm.googlegroups.com>
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<9085826d-e72a-4cbe-9493-ff92406d552b@q18g2000vbn.googlegroups.com>
<bRVwl.18562$b9.1772@bignews6.bellsouth.net>
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<bubxl.10257$jZ1.9376@flpi144.ffdc.sbc.com>
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
Lines: 33
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X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
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Organization: Cox
Date: Sun, 22 Mar 2009 11:52:58 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2355

"Joerg" <notthisjoergsch@removethispacbell.net> wrote in message >
> Yeah, I wish the designers of the NRD-515 here had known that as well.
> Every few months a relay will become "sticky". The S-meter drops to zilch,
> rock the attenuator switch 5-10 times, and it's back :-(
>
> Relays with some current are ok but I prefer the electronic method. PIN
> diodes with lots of current and plenty of carrier lifetime usually work.
> One just has to make sure there aren't any rectification effects that can
> cause IM or harmonics in the presence of strong signals. FET switches are
> sometimes a good deal as well but since the SD5000 and SD5400 have gone
> towards high-priced boutique status not so much anymore.
>
> --
> 73, Joerg

Hello Joerg

Odd you're having that problem with the NRD-515. So far mine
has been rock solid, except for the rotting foam disease in the
mechanical filters... But... I do have constant problems with
the relay that selects the external VFO in the NSD-515
transmitter! It always needs attention and cleaning. Its the
odd-ball relay that was added on the bottom of the mother
board. I'm wondering if you have had the same problem
with the transmitter (assuming you own the pair) and what
you did to fix it.

73

Peter k1zjh

From -8842695351707503O6
X-Google-Thread: fc2a5,3a78cb4828ccc76a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe02.iad.POSTED!7564ea0f!not-for-mail
From: "Unca Pete" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <b8ab8090-d338-4dfd-8857-6c49a4ec75a1@c36g2000yqn.googlegroups.com> <49c1b2d6$0$4955$9a6e19ea@unlimited.newshosting.com> <957da915-f5ac-40f5-b98c-b755b8cc4c35@l16g2000yqo.googlegroups.com> <426c859e-943c-4b09-86b8-32458300ff16@j8g2000yql.googlegroups.com> <d7Xwl.30779$5t4.22583@newsfe24.iad> <Vf2dnWcdK-q1nVjUnZ2dnUVZ8tOWnZ2d@pipex.net>
Subject: Re: Nuvistor TV preamp mod
Lines: 36
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <Tytxl.105098$rb1.66833@newsfe02.iad>
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X-Trace: newsfe02.iad 1237738803 68.229.77.6 (Sun, 22 Mar 2009 16:20:03 UTC)
NNTP-Posting-Date: Sun, 22 Mar 2009 16:20:03 UTC
Organization: Cox
Date: Sun, 22 Mar 2009 11:59:07 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2356

"Highland Ham" <rfburns@allbands.net> wrote in message
news:Vf2dnWcdK-q1nVjUnZ2dnUVZ8tOWnZ2d@pipex.net...

> > ===============================
> Agree with that ,although ARRL members should have a choice.
> If they prefer QEX over QST they should have that option.
> ARRL news is sent weekly by e-mail upon request .Moreover, members can
> access QST articles via the ARRL web site, and also can access QEX
> articles.
>
> Living in the UK I have opted for the annual CD-ROM ,which is published in
> March ,including QST , QEX and the Contest Mag. covering the past calendar
> year   ,which suits me fine.
> However I believe this option is not available to US residents .
> Perhaps something to go for.
>
> Frank   GM0CSZ / KN6WH

The ARRL derrives a lot of income from the QST
advertisements. Decreased circulation numbers would cost
them revenue. I'm sure the answer would be increasing
the circulation figures for QEX, and making up the revenue
there, but the logistics might be too great. That's why the
QSTs are delivered on a timely basis stateside; stale 12
month old adds delivered by CD won't make the advertisers
happy. I've complained about this in the past (dumbing down
of QST) and was told that they are serving the majority
of the membership with the current content.

Anyway, I feel I might have hijacked Jimmies' thread, and
I'll stop posting with this last comment.

Pete

From -586699156139080764
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newsfeed.stanford.edu!newshub.sdsu.edu!flph200.ffdc.sbc.com!prodigy.net!
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78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-
bdd0-49eba484eef0@w35g2000yqm.googlegroups.com>
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<bRVwl.18562$b9.1772@bignews6.bellsouth.net>

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<x4Xwl.24362$yr3.21444@nlpi068.nbdc.sbc.com>
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12:40:07 EDT)
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Date: Sun, 22 Mar 2009 09:39:57 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2357

Unca Pete wrote:
> "Joerg" <notthisjoergsch@removethispacbell.net> wrote in message  >
>> Yeah, I wish the designers of the NRD-515 here had known that as well.
>> Every few months a relay will become "sticky". The S-meter drops to zilch,
>> rock the attenuator switch 5-10 times, and it's back :-(
>>
>> Relays with some current are ok but I prefer the electronic method. PIN
>> diodes with lots of current and plenty of carrier lifetime usually work.
>> One just has to make sure there aren't any rectification effects that can
>> cause IM or harmonics in the presence of strong signals. FET switches are
>> sometimes a good deal as well but since the SD5000 and SD5400 have gone
>> towards high-priced boutique status not so much anymore.
>>
>> --
>> 73, Joerg
>
> Hello Joerg
>
> Odd you're having that problem with the NRD-515. So far mine
> has been rock solid, except for the rotting foam disease in the
> mechanical filters... But... I do have constant problems with
> the relay that selects the external VFO in the NSD-515
> transmitter! It always needs attention and cleaning. Its the
> odd-ball relay that was added on the bottom of the mother
> board. I'm wondering if you have had the same problem
> with the transmitter (assuming you own the pair) and what
> you did to fix it.
>

Actually I only have the receiver. Besides relays there is one other
serious problem: The bearings of the tune encoder are seriously worn,
the shaft sloshes around. I am not looking forward to the day when I
```

have to disect that thing.

Rotting foam in filters? Whoops, I've got to watch out for that. As for
relays, my problem really got worse after all this was in a sea
container for a while and crossed an ocean.

--
73, Joerg

From -2584577410759617415
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From: joeturn <joeturn2000@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Grant Funding Search Scam
Date: Sun, 22 Mar 2009 11:06:02 -0700 (PDT)
Organization: http://groups.google.com
Lines: 8
Message-ID: <448b54df-a664-4d5a-9c08-6da010daafe1@a12g2000yqm.googlegroups.com>
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2358

One bad apple is all it took!! Think the TV stations that promoted
the
scam to begin with can save face now?? Those informercials ought not
to be televised without a PayPal approval huh?

http://ripoffreport.com/reports/0/432/ripoff0432085.htm

From 1391045679717381302
X-Google-Thread: fc2a5,d8f5c1e658b3c68d
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X-Google-Language: ENGLISH,ASCII

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mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
Date: Sun, 22 Mar 2009 11:29:21 -0700 (PDT)
Organization: http://groups.google.com
Lines: 73
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Complaints-To: groups-abuse@google.com
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     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2359

On Mar 21, 5:11=A0pm, Joerg <notthisjoerg...@removethispacbell.net>
wrote:
> JIMMIE wrote:
> > On Mar 20, 6:47 pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
> >> JIMMIE wrote:
> >>> On Mar 18, 9:24 pm, Robert casey <wa2...@ix.netcom.com> wrote:
> >>>>> The design used plug-in coils for the osc and rf stages, and
> >>>> =A0they were double conversion designs, with a first IF of
> >>>> =A01600 kc and a second IF of either 100 kc or 85 kc (when
> >>>> =A0using surplus ARC-5 IFTs.) =A0The 1800 mc xtal you bought
> >>>> =A0your dad was used for the second coversion osc. to convert
> >>>> =A0the 1600 kc IF down to 100 kc. =A0Many hams deviated from
> >>>> =A0the exact original IF frequencies (i.e. strong local BC
> >>>> =A0station on 1600 kc) which might explain why the xtal
> >>>>> was chosen for 1800 kc instead of 1500 or 1700.
> >>>> We have a local mid power station at 1600KHz, WWRL, at my parents' h=
ouse,
> >>>> so my father might have wanted to avoid problems with it.
> >>>> His radio had a bandswitch instead of plug in coils, and he'd receiv=
e
> >>>> various broadcast SW stations. =A0He wasn't a ham at the time just y=
et. =A0
```

> >>> I had a friend who was a retired engineer with GE turned TV tech who
> >>> built
> >>> one with a band switch and he later modified it to
> >>> be more of a general purpose SW receiver. His name was Olin Griggs.
> >>> Jimmie.
> >> I once saw an article in 73 magazine showing a HB receiver that used a
> >> re-worked turret tv tuner as a band switch. =A0The coils were re-wound
> >> onto the original forms, but some have just replaced the forms with so=
me
> >> of the smaller sized toroid cores. =A0I have a bunch of old tv tuners =
in
> >> the junk box, but over the years the contacts have gone bad and now sh=
ow
> >> a high resistance. =A0 Maybe they could be cleaned up, but it no longe=
r
> >> seems worth the effort. =A0My new idea is to use miniature relays to
> >> switch the circuits. =A0I recently found nearly a gross of small relay=
s
> >> for free so why not?- Hide quoted text -
>
> >> - Show quoted text -
>
> > I tried the TV tuner trick one time and it didnt work well at all.
> > Most tuners are tossed because the contacts fail. ...
>
> Not really. Back then TVs were often tossed because the flyback xfmr had
> blown and repair was deemed uneconomical. Or someone said that because
> in reality they wanted that brand spanking new set that was one sale.
>
> But this is so long ago that if there's any left the contacts will have
> corrodes away.
>
> [...]
>
> --
> 73, Joerg- Hide quoted text -
>
> - Show quoted text -

You must be younger than me, Ive replaced a lot of TV tuners and
flybacks. It was in the early 80s that i first noticed
TVs becoming diposable and quit working on them. Luckily for me there
was still a lot of other electtronic repair work needed to be done.
Most of the local industry was becoming more electronic oriented in
their equipment and needed someone to maintain their equipment but did
not want to hire a full time tech. The sawmills, textile plants, food
processing plants kept me pretty busy aand i enjoyed the work much
more not having to deal with the usual customers.

Jimme

```
From -2726443993271037987
X-Google-Thread: fc2a5,44603003e3f37b26,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!u1g2000vbb.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: 6M amp
Date: Sun, 22 Mar 2009 12:53:01 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
Message-ID: <6b29f753-ad87-4e98-acef-41fcd772c971@u1g2000vbb.googlegroups.com>
NNTP-Posting-Host: 165.254.210.4
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1237751581 2094 127.0.0.1 (22 Mar 2009 19:53:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 22 Mar 2009 19:53:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u1g2000vbb.googlegroups.com; posting-host=165.254.210.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:2063
```

Ive been building a 6M amp using a 4CX250B. I was looking through the schematic of other amps to get an idea of what is needed for a plate choke. In the Sep 1984 QST page 12 I found a plate choke described as 1-5/8 inches of # 22 enameled wire close wound on a 3/8 inch Teflon rod. COULD THIS BE CORRECT??. That sounds like about two turns of wire to me.

I believe what they meant to say was 'close wind the wire until the coil is 1-5/8 inches long'.

I also do not have the Teflon(tm) rod that was also part of the discription. Would ceramic work as well?

BTW I have no plans of building a cathode driven amp as dhown in the article. I was just stealing plans for the choke.

Jimmie

```
From 3597021873686650092
X-Google-Thread: fc2a5,44603003e3f37b26
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!npeer02.iad.highwinds-
```

```
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
post01.iad.highwinds-media.com!newsfe17.iad.POSTED!7564ea0f!not-for-mail
From: "Unca Pete" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <6b29f753-ad87-4e98-acef-41fcd772c971@u1g2000vbb.googlegroups.com>
Subject: Re: 6M amp
Lines: 7
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <I9xxl.90981$Rg3.38225@newsfe17.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe17.iad 1237753576 68.229.77.6 (Sun, 22 Mar 2009 20:26:16 UTC)
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Organization: Cox
Date: Sun, 22 Mar 2009 16:25:53 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:2064
```

I'd think an old Ohmmite Z-50 would be ideal. Wonder
what the value in uH was?

Pete

```
From 2878843446550848742
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Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!newshub.sdsu.edu!
flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!flpi146.ffdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-
bdd0-49eba484eef0@w35g2000yqm.googlegroups.com>
<QX3wl.67367$FI5.20197@newsfe07.iad> <Xns9BD2BB30CC7EFwa2ise@69.16.185.252>
     <9085826d-e72a-4cbe-9493-ff92406d552b@q18g2000vbn.googlegroups.com>
     <bRVwl.18562$b9.1772@bignews6.bellsouth.net> <9364817a-7a42-475a-a510-
a974d4cd16fb@r28g2000vbp.googlegroups.com>
<6Kcxl.24422$yr3.18211@nlpi068.nbdc.sbc.com>
<2cbf8d02-8d16-4e1a-809e-641710a64fee@l22g2000vba.googlegroups.com>
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X-Complaints-To: abuse@prodigy.net
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16:39:53 EDT)
NNTP-Posting-Date: Sun, 22 Mar 2009 16:39:53 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
[[OGRYSEGZWUSWHXNCOF_W\@PJ_^PBQLGPQRZQ]KEYUNDQUCCNSUAACY@L[ZX__HGFD]JBJNSFXTOOGA_V
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@AS@Q[B\APPF@DCZM_PG_VSCPQZM
Date: Sun, 22 Mar 2009 13:45:59 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:2065

JIMMIE wrote:
> On Mar 21, 5:11 pm, Joerg <notthisjoerg...@removethispacbell.net>
> wrote:
>> JIMMIE wrote:
>>> On Mar 20, 6:47 pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
>>>> JIMMIE wrote:
>>>>> On Mar 18, 9:24 pm, Robert casey <wa2...@ix.netcom.com> wrote:
>>>>>>> The design used plug-in coils for the osc and rf stages, and
>>>>>>  they were double conversion designs, with a first IF of
>>>>>>  1600 kc and a second IF of either 100 kc or 85 kc (when
>>>>>>  using surplus ARC-5 IFTs.)  The 1800 mc xtal you bought
>>>>>>  your dad was used for the second coversion osc. to convert
>>>>>>  the 1600 kc IF down to 100 kc.  Many hams deviated from
>>>>>>  the exact original IF frequencies (i.e. strong local BC
>>>>>>  station on 1600 kc) which might explain why the xtal
>>>>>>> was chosen for 1800 kc instead of 1500 or 1700.
>>>>>> We have a local mid power station at 1600KHz, WWRL, at my parents' house,
>>>>>> so my father might have wanted to avoid problems with it.
>>>>>> His radio had a bandswitch instead of plug in coils, and he'd receive
>>>>>> various broadcast SW stations.  He wasn't a ham at the time just yet.
>>>>> I had a friend who was a retired engineer with GE turned TV tech who
>>>>> built
>>>>> one with a band switch and he later modified it to
>>>>> be more of a general purpose SW receiver. His name was Olin Griggs.
>>>>> Jimmie.
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>>>> re-worked turret tv tuner as a band switch.  The coils were re-wound
>>>> onto the original forms, but some have just replaced the forms with some
>>>> of the smaller sized toroid cores.  I have a bunch of old tv tuners in
>>>> the junk box, but over the years the contacts have gone bad and now show
>>>> a high resistance.   Maybe they could be cleaned up, but it no longer
>>>> seems worth the effort.  My new idea is to use miniature relays to
>>>> switch the circuits.  I recently found nearly a gross of small relays
>>>> for free so why not?- Hide quoted text -
>>>> - Show quoted text -
>>> I tried the TV tuner trick one time and it didnt work well at all.
>>> Most tuners are tossed because the contacts fail. ...
```

>> Not really. Back then TVs were often tossed because the flyback xfmr had
>> blown and repair was deemed uneconomical. Or someone said that because
>> in reality they wanted that brand spanking new set that was one sale.
>>
>> But this is so long ago that if there's any left the contacts will have
>> corrodes away.
>>
>> [...]
>>
>> --
>> 73, Joerg- Hide quoted text -
>>
>> - Show quoted text -
>
> You must be younger than me, Ive replaced a lot of TV tuners and
> flybacks. It was in the early 80s that i first noticed
> TVs becoming diposable and quit working on them. Luckily for me there
> was still a lot of other electtronic repair work needed to be done.
> Most of the local industry was becoming more electronic oriented in
> their equipment and needed someone to maintain their equipment but did
> not want to hire a full time tech. The sawmills, textile plants, food
> processing plants kept me pretty busy aand i enjoyed the work much
> more not having to deal with the usual customers.
>

Same here, in the early 80's I began to refuse fixing TVs and stuff. But even before that, I remember the flyback transformers for some sets being so outrageously expensive that a repair plain didn't make sense. Especially if it had taken out the H-deflection tube and some other stuff with it or the set itself had already been quite tired at the time it hissed its good-bye. This was in Europe.

--
73, Joerg

From -3122477775853237151
X-Google-Thread: fc2a5,d8f5c1e658b3c68d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!y6g2000prf.googlegroups.com!not-for-mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
Date: Sun, 22 Mar 2009 15:14:12 -0700 (PDT)
Organization: http://groups.google.com
Lines: 87
Message-ID: <539de539-e159-4900-bd9b-a24ab8cd8946@y6g2000prf.googlegroups.com>
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-bdd0-49eba484eef0@w35g2000yqm.googlegroups.com>
<QX3wl.67367$FI5.20197@newsfe07.iad> <Xns9BD2BB30CC7EFwa2ise@69.16.185.252>
<9085826d-e72a-4cbe-9493-ff92406d552b@q18g2000vbn.googlegroups.com>

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     <bRVwl.18562$b9.1772@bignews6.bellsouth.net>
<x4Xwl.24362$yr3.21444@nlpi068.nbdc.sbc.com>
     <6ebc24d7-9c72-46c5-bcb4-b7b7dd4c459c@z6g2000pre.googlegroups.com>
     <UNexl.10286$%54.8159@nlpi070.nbdc.sbc.com>
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Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 22 Mar 2009 22:14:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y6g2000prf.googlegroups.com; posting-host=207.200.116.11;
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     SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
3.0.04506),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s ]), HTTP/1.1
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     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news2.google.com rec.radio.amateur.homebrew:2363
```

On Mar 21, 4:31=EF=BF=BDpm, Joerg <notthisjoerg...@removethispacbell.net>
wrote:

> AF6AY wrote:
> > "Joerg" posted on Fri, Mar 20 2009 6:06 pm
> >> ken scharf wrote:
> >>> JIMMIE wrote:
>
> Relays are ok in those applications, where there are actual currents
> flowing. What I meant was pure signal switching with no DC currents.

That's called "dry" switching in the electronics industry, has been called that for over a half century.

> Sealed relays, Reeds, mercury-wetted and such work quite well there. But
> non-sealed versions have issues and a snap-on plastic cap ain't a seal.

Didn't say that that it was a seal. But...there are many kinds of 'seals' and there are many kinds of contact alloys which few hobbyists investigate.

> Those problems became really nasty after we moved across an ocean and
> all this stuff was in a sea container for two months. After that almost
> all the band switching relays had problems, had to clean all of them.
> Now I am down to one sticky relay every couple month or so.

My wife and I own a nice 2005 model Chevrolet Malibu MAXX that we've driven in both driving rain with some intermittent ice to Wisconsin from California and back, to Washington state from California and back. It has two little boxes of many small-signal relays, only a very few qualifying for large-signal types. Never a problem since we got it in late June of 2005. Those relay boxes all have lids and the small relays have little covers and that auto has definitely been exposed to the environment many times in the last 4 years.

I can sympathize with your bad sea container shipping experience but consumer-grade radios (such as for amateur radio) were never designed to be exposed to sea evnvironments. Ask yourself how all those off-shore made radios made it to the USA? Inside standardized container boxes.

I didn't make my comment lightly or pretend that I know everything there is to electronics. I do know, by a rather large set of experiences that 'dry' circuit relays (hermetically sealed OR by reasonably-good individual covers) will work without having to be 'operated many times' in order to 'clean their contacts.'

I'll cite one application that is military, the US AN/PRC-104 manpack HF transceiver. About one-third of that backpack radio is an automatic antenna tuner so that one whip length can be optimized for best electrical characteristics. It does that with a rather conventional microprocessor control driving two banks of binary-sequence inductance and capacitance values switched by relays. It has been in operational status with the US Army since around 1984 and is expected to be phased out soon in favor of more modern HF-to-UHF transceiver designs. It's been a while since I've seen the guts of it but I don't recall that it had any hermetically-sealed relays in it.

Right now I'm beginning to start cutting holes for a rebuild of an 'ancient' HF receiver once made for my late father wanting to tune to some SW BC stations, principally Radio Sweden back in 1964. I've been fortunate to get a large collection of North Electric small sealed relays dating back to about 1955 production which I've already breadboarded for bandswitching use. Very familiar with relay testing, I found NO problems from 'dry' contact switching. The low capacitance to ground and minimal series inductance from the contact set do NOT upset any of the L-C circuits being switched.

> replaced with PIN diode circuits and that, of course, made the issues
> completely go away. But it's always a hassle to do in an exisitng circuit=
.

Yes, I have that in the filter board of my two decade old Icom IC-R70, all switched with 'RF switch' diodes (no registry number). If needs be, that entire filter board could be enclosed to prevent any problems from the environment. Icom used that sort of semi-conductor switching for ease of overall parts cost along with reduced labor costs to Icom. Such work fine at the LOW impedances involved (50 to 75 Ohms) but I've tried to duplicate that at 10 KOhms on a breadboard and have run into problems with diodes' own impedances affecting circuit operation. Those could be solved, I'm sure, but I didn't care to spend weeks fiddling with them for my rebuild project. The relay contact set had only the shunt capacity and series inductance to contend with and those were very low values and easily compensated for alignment.

73, Len AF6AY
LenAnderson@ieee.org

```
From 8454249118486218463
X-Google-Thread: fc2a5,44603003e3f37b26
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!e3g2000vbe.googlegroups.com!not-for-mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6M amp
Date: Sun, 22 Mar 2009 16:14:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <8a2a3649-0270-4d65-ad4b-0eb03710f8d2@e3g2000vbe.googlegroups.com>
References: <6b29f753-ad87-4e98-acef-41fcd772c971@u1g2000vbb.googlegroups.com>
     <I9xxl.90981$Rg3.38225@newsfe17.iad>
NNTP-Posting-Host: 165.254.211.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1237763666 8613 127.0.0.1 (22 Mar 2009 23:14:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 22 Mar 2009 23:14:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000vbe.googlegroups.com; posting-host=165.254.211.4;
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2364
```

On Mar 22, 4:25=A0pm, "Unca Pete" <radioconnect...@cox.net> wrote:

> I'd think an old Ohmmite Z-50 would be ideal. Wonder
> what the value in uH was?
>
> Pete

I thought about a Z-50. I have one I use on a 6 Meter amp using a pair
of 6146Bs. I didnt know if it would work with the 4cx250s or not.

6.8 uh rings a bell but Im not sure.

Id rather wind my own if it will keep me from having to pull out the
credit card and pay more shipping than what the thing cost.

Jimme

```
From 5334193103280877110
X-Google-Thread: fc2a5,3a78cb4828ccc76a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p42g2000prp.googlegroups.com!not-for-
mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Nuvistor TV preamp mod
Date: Sun, 22 Mar 2009 16:42:07 -0700 (PDT)
Organization: http://groups.google.com
Lines: 105
Message-ID: <925d16ee-c235-44ed-ac1c-4679c400f740@p42g2000prp.googlegroups.com>
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NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1237765327 21109 127.0.0.1 (22 Mar 2009 23:42:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 22 Mar 2009 23:42:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p42g2000prp.googlegroups.com; posting-host=207.200.116.11;
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     SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
3.0.04506),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-ntc-td05.proxy.aol.com[CFC87065] (Prism/1.2.1), HTTP/1.1
     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news2.google.com rec.radio.amateur.homebrew:2365

Lawrence Statton posted on Sat, Mar 21 2009 6:46 am

>"Unca Pete" <radioconnection@cox.net> writes:
>>
>> I'll join the ARRL the day I can choose QEX over the QST
>> forced subscription that comes with the membership.
>>
>> Pete k1zjh
>
>Have you ever thought of JOINING ARRL, and using your position as
>a member to petition for this change?
>
>Change is made by those who participate.
>
>--N1GAK
```

CHANGE is made by those who cozy up to the Old Boys Network of the League. The arch-conservatives there want only ONE thing: Preservation of their rank/status/title and the ability to Rule. The rest is just PR BS to convince members that They are 'for' members. As a voting member of the ARRL (until end of March) for two years, I've gotten a chance to 'vote' just once and then only for lower positions; candidacy for Director was unopposed so the incumbent was 'automatically' elevated to another term. Some 'voting,' not.

As one who has been around the electronics industry for over a half century, I KNOW all the styles of writing that are acceptable in written correspondence. After three such carefully-structured correspondences FAILED to get an answer (one Form Letter reply is not counted as any sort of real reply), there wasn't any point of wasting my time with them.

The Editor of QST seems technically inept but appears to have the 'company man.' The Editor of QEX is technically better but could spend more time going over manuscripts to 'tighten up' some text and yield more technical explanations in the same amount of pages. QST's flavor of presentation is getting more and more like 'Ham Radio for Dummies.' Ohm's Law of Resistance is apparently 'rocket science' according to QST pages...if there is any in between the blitz of self-important PR BS there. Bear in mind I've been (first) a contributor to, then Associate Editor (for two years) at Ham Radio magazine back before 1990 and when I did not have any amateur radio license (just a First 'Phone granted in 1956).

Yes, if one wants (marginal quality) PDF downloads from QST since the year dot, membership might be worth something. Most of those PDFs come with an inserted first page of copyright warnings which is about 450 KB size all by itself, always the same page. Makes a lot of difference in downloading over a dial-up connection. It is better to just plain BUY a CD of selected years rather than download the same thing over and over again. That has the advantage of greater monetary revenue for the League...something They NEED to keep the paid high-level staff in 6-figure annual incomes.

With paid membership (and its 'voting rights') comes a 3:1 ratio of surface mail spam to BUY BUY BUY this and that as compared to actual worthwhile news/information. Good copy, cleverly misinforms the 'lowered cost of shipping' (on 'specials') as 'member money savings.' Never mind that I can go to HRO or AES outlets and get the SAME product over the couner at the SAME price with NO shipping charges. Shipping direct from Newington Hq means they are pocketing the difference local stores make as profit for reselling, another small revenue booster for the League. Not much, to be sure, but it denies any real savings to paid members.

The usual rejoinder from League sycophants is "members get QST free!" as if that were an excuse. Hello? The paid advertising space in ANY hobby magazine pays the staff and most overhead (except fulfillment services, aka mail subscription delivery) to keep everyone working. CQ works that way, 73 and Ham Radio magazines worked that way as Independent periodical publishers for years until the advertisers had to tighten their economic belts. By virtue of being a virtual monopoly on amateur radio publications, the ARRL can offer the widest exposure to advertisers so, when economic chips started to deplete beginning around 1990, advertisers gravitated to QST with its demographic guarantee of about 120K 'sales' per issue back then.

Just WHAT has the ARRL gotten for YOU in the past decades? Their influence with the FCC is dropping, witness all the Report and Orders footnotes and denials on dockets 98-143, 05-235, and at least three of the 18 Petitions for change in between those two landmark regulation changes. The ARRL hasn't achieved any new bands on HF except for 5 channels at '60m.' They never got a whole band to play hams-are-vital-and-important to the nation in times of crises. Five CHANNELS. As if the 'technical experts' there had never seen the giant frequency allocation chart in Part 2, Title 47 C.F.R. that shows where everyone is allowed from 9 KHz to 300 GHz...nor did they seem to have a handle on government radio use in HF. The 'WARC' bands came about in 1979 (at WARC-79) by the ITU, not the ARRL. ARRL has yet to join the rest of the IARU in going for any LF bands for amateurs as they do in Europe.

For an excellent peek into thinking of the higher-ups in the League, just read their Minutes of Regional meetings. Most of it is just self-congratulatory high-fives among the insiders praising each other. WE don't get to see any talks of 'change' (horrors!) in much of anything. You might say the Spirit of AIG had invaded the ARRL long ago. In between asking for More Money for the 'Spectrum Defense Fund' and the 'Foundation' and 'Buying a Brick for the Diamond Terrace,' Will the League soon be asking for 'bail-out money' from ongress? :-(

Len Anderson, AF6AY
Life Member, IEEE (a Professional Association)

From -8637799402632319270
X-Google-Thread: fc2a5,44603003e3f37b26
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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NNTP-Posting-Date: Sun, 22 Mar 2009 21:19:33 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <6b29f753-ad87-4e98-acef-41fcd772c971@u1g2000vbb.googlegroups.com> <I9xxl.90981$Rg3.38225@newsfe17.iad> <8a2a3649-0270-4d65-ad4b-0eb03710f8d2@e3g2000vbe.googlegroups.com>
Subject: Re: 6M amp

Date: Sun, 22 Mar 2009 22:20:14 -0500
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X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <lL6dnRPVxvgobFvUnZ2dnUVZ_jyWnZ2d@earthlink.com>
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gIklcFzl3ZZ2hqgdZjadE819zZeXaWIFqEhGEw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:2069

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
news:8a2a3649-0270-4d65-ad4b-0eb03710f8d2@e3g2000vbe.googlegroups.com...
On Mar 22, 4:25 pm, "Unca Pete" <radioconnect...@cox.net> wrote:
> I'd think an old Ohmmite Z-50 would be ideal. Wonder
> what the value in uH was?
>
> Pete

I thought about a Z-50. I have one I use on a 6 Meter amp using a pair of 6146Bs. I didnt know if it would work with the 4cx250s or not.

6.8 uh rings a bell but Im not sure.

Id rather wind my own if it will keep me from having to pull out the credit card and pay more shipping than what the thing cost.

Jimme
&&&&&&&&&&&&&&&&&&&&&

One book calls for an 8.2 uH choke.
One design is for using # 28 wire spaced 1 wire diameter on a 1/2 inch form and 1 3/4 inches long.
Another calls for 30 turs of # 20 wire spaced 1 wire diameter on a 3/4 inch diameter form that is 3 3/4 inches long. I think the wire stops about 1/2 inch from each end on that form.
If the z50 would handle the current it should be ideal.

From -5041885460742035501

X-Google-Thread: fc2a5,44603003e3f37b26
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
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From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6M amp
Date: Sun, 22 Mar 2009 20:56:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 38
Message-ID: <d465defb-7644-4f97-8768-11139036bb58@v37g2000vbb.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 23 Mar 2009 03:56:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v37g2000vbb.googlegroups.com; posting-host=165.254.211.4;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
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CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2367

On Mar 22, 11:20=A0pm, "Ralph Mowery" <rmowery28...@earthlink.net>
wrote:
> "JIMMIE" <JIMMIEDEE...@YAHOO.COM> wrote in message
>
> news:8a2a3649-0270-4d65-ad4b-0eb03710f8d2@e3g2000vbe.googlegroups.com...
> On Mar 22, 4:25 pm, "Unca Pete" <radioconnect...@cox.net> wrote:
>
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> > what the value in uH was?
>
> > Pete
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>
> 6.8 uh rings a bell but Im not sure.
>
> Id rather wind my own if it will keep me from having to pull out the
> credit card and pay more shipping than what the thing cost.
>
> Jimme
> &&&&&&&&&&&&&&&&&&&&&

```
>
> One book calls for an 8.2 uH choke.
> One design is for using # 28 wire spaced 1 wire diameter on a 1/2 inch fo=
rm
> and 1 3/4 inches long.
> Another calls for 30 turs of # 20 wire spaced 1 wire diameter on a 3/4 in=
ch
> diameter form that is 3 3/4 inches long. =A0I think the wire stops about =
1/2
> inch from each end on that form.
> If the z50 would handle the current it should be ideal.

Thanks for the info 32 turns is what I calculated. I was guessing on
the wire size/ spacing.

Jimmie



From 8954181106494054206
X-Google-Thread: fc2a5,44603003e3f37b26
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6M amp
Date: Sun, 22 Mar 2009 23:16:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 40
Message-ID: <85f361bd-ea3b-42d2-8020-fbac4afb2df4@o11g2000yql.googlegroups.com>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:2071

On Mar 22, 11:20=A0pm, "Ralph Mowery" <rmowery28...@earthlink.net>
wrote:
> "JIMMIE" <JIMMIEDEE...@YAHOO.COM> wrote in message
```

```
>
> news:8a2a3649-0270-4d65-ad4b-0eb03710f8d2@e3g2000vbe.googlegroups.com...
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> and 1 3/4 inches long.
> Another calls for 30 turs of # 20 wire spaced 1 wire diameter on a 3/4 in=
ch
> diameter form that is 3 3/4 inches long. =A0I think the wire stops about =
1/2
> inch from each end on that form.
> If the z50 would handle the current it should be ideal.

I found a circuit that uses a 50 ohm % watt wirewound resistor for a
plate RFC on a 4cx250.
I may have to try that.


Jimmie



From 3560154051552017152
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-
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X-Complaints-To: abuse@prodigy.net
X-Trace: flpi150.ffdc.sbc.com 1237847577 ST000 75.26.199.113 (Mon, 23 Mar 2009
18:32:57 EDT)
NNTP-Posting-Date: Mon, 23 Mar 2009 18:32:57 EDT
Organization: at&t http://my.att.net/
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Date: Mon, 23 Mar 2009 15:32:56 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2369

AF6AY wrote:
> On Mar 21, 4:31�pm, Joerg <notthisjoerg...@removethispacbell.net>
> wrote:
>> AF6AY wrote:
>>> "Joerg" posted on Fri, Mar 20 2009 6:06 pm
>>>> ken scharf wrote:
>>>>> JIMMIE wrote:
>> Relays are ok in those applications, where there are actual currents
>> flowing. What I meant was pure signal switching with no DC currents.
>
> That's called "dry" switching in the electronics industry, has been
> called that for over a half century.
>
>> Sealed relays, Reeds, mercury-wetted and such work quite well there. But
>> non-sealed versions have issues and a snap-on plastic cap ain't a seal.
>
> Didn't say that that it was a seal.  But...there are many kinds of
> 'seals' and there are many kinds of contact alloys which few hobbyists
> investigate.
>

Most must make do with whatever places such as Digikey offer at
affordable cost.


>> Those problems became really nasty after we moved across an ocean and
>> all this stuff was in a sea container for two months. After that almost
>> all the band switching relays had problems, had to clean all of them.
```

>> Now I am down to one sticky relay every couple month or so.
>
> My wife and I own a nice 2005 model Chevrolet Malibu MAXX that we've
> driven in both driving rain with some intermittent ice to Wisconsin
> from California and back, to Washington state from California and
> back. It has two little boxes of many small-signal relays, only a
> very few qualifying for large-signal types. Never a problem since we
> got it in late June of 2005. Those relay boxes all have lids and the
> small relays have little covers and that auto has definitely been
> exposed to the environment many times in the last 4 years.
>

Sure, but in a car relays always switch something that draws a serious current, more than a few milliamps. That works for a long time. Well, until a "weld wart" shows up, like it did on a relay in out Genie garage door opener.

> I can sympathize with your bad sea container shipping experience but
> consumer-grade radios (such as for amateur radio) were never designed
> to be exposed to sea evnvironments. Ask yourself how all those off-
> shore made radios made it to the USA? Inside standardized container
> boxes.
>

Usually they are carefully packaged and silica gel is included. When you move that usually ain't the case. Plus the radio was quite old by that time.

> I didn't make my comment lightly or pretend that I know everything
> there is to electronics. I do know, by a rather large set of
> experiences that 'dry' circuit relays (hermetically sealed OR by
> reasonably-good individual covers) will work without having to be
> 'operated many times' in order to 'clean their contacts.'
>

Hmm, I've had that happen even in $xxxxx lab gear, not quite consumer-grade. Never really with mil gear though but those guys can often design to "the sky's the limit" cost goals.

> I'll cite one application that is military, the US AN/PRC-104 manpack
> HF transceiver. About one-third of that backpack radio is an
> automatic antenna tuner so that one whip length can be optimized for
> best electrical characteristics. It does that with a rather
> conventional microprocessor control driving two banks of binary-
> sequence inductance and capacitance values switched by relays. It has
> been in operational status with the US Army since around 1984 and is
> expected to be phased out soon in favor of more modern HF-to-UHF
> transceiver designs. It's been a while since I've seen the guts of it
> but I don't recall that it had any hermetically-sealed relays in it.
>

But I bet no expense was spared to pick the very best parts for that radio.

> Right now I'm beginning to start cutting holes for a rebuild of an
> 'ancient' HF receiver once made for my late father wanting to tune to
> some SW BC stations, principally Radio Sweden back in 1964. I've been
> fortunate to get a large collection of North Electric small sealed
> relays dating back to about 1955 production which I've already
> breadboarded for bandswitching use. Very familiar with relay testing,
> I found NO problems from 'dry' contact switching. The low capacitance
> to ground and minimal series inductance from the contact set do NOT
> upset any of the L-C circuits being switched.
>

Sealed relays are ok. I also have a few really old ones here and so far they have never let me down. But I don't have enough to equip a filter bank with 15-20 in- and outputs. For that I've got a stash of HSMP-3810 PIN diodes.

>> replaced with PIN diode circuits and that, of course, made the issues
>> completely go away. But it's always a hassle to do in an exisitng circuit.
>
> Yes, I have that in the filter board of my two decade old Icom IC-R70,
> all switched with 'RF switch' diodes (no registry number). If needs
> be, that entire filter board could be enclosed to prevent any problems
> from the environment. Icom used that sort of semi-conductor switching
> for ease of overall parts cost along with reduced labor costs to
> Icom. Such work fine at the LOW impedances involved (50 to 75 Ohms)
> but I've tried to duplicate that at 10 KOhms on a breadboard and have
> run into problems with diodes' own impedances affecting circuit
> operation. Those could be solved, I'm sure, but I didn't care to
> spend weeks fiddling with them for my rebuild project. The relay
> contact set had only the shunt capacity and series inductance to
> contend with and those were very low values and easily compensated for
> alignment.
>

Yeah, anything above 1K or so is less suitable for diodes. That's where JFETs come in which, in turn, are not so hot for anything low impedance. Unless you use the fat expensive kind and they've got too high capacitances. Many fine FETs like the P8000 have gone over the rainbow bridge by now. I guess they only found homes in ham gear and that wasn't a large enough market.

--
73, Joerg

From 7823488802824081590
X-Google-Thread: fc2a5,d8f5c1e658b3c68d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8

Path: g2news2.google.com!postnews.google.com!b7g2000pre.googlegroups.com!not-for-mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
Date: Tue, 24 Mar 2009 09:37:36 -0700 (PDT)
Organization: http://groups.google.com
Lines: 108
Message-ID: <bb971169-7b97-4507-9473-3db88ffa3633@b7g2000pre.googlegroups.com>
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     <QX3wl.67367$FI5.20197@newsfe07.iad> <Xns9BD2BB30CC7EFwa2ise@69.16.185.252>
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     <bRVwl.18562$b9.1772@bignews6.bellsouth.net>
<x4Xwl.24362$yr3.21444@nlpi068.nbdc.sbc.com>
     <6ebc24d7-9c72-46c5-bcb4-b7b7dd4c459c@z6g2000pre.googlegroups.com>
     <UNexl.10286$%54.8159@nlpi070.nbdc.sbc.com> <539de539-e159-4900-bd9b-a24ab8cd8946@y6g2000prf.googlegroups.com>
     <t6Uxl.12819$hc1.9131@flpi150.ffdc.sbc.com>
NNTP-Posting-Host: 207.200.116.11
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Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1237912657 7588 127.0.0.1 (24 Mar 2009 16:37:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 24 Mar 2009 16:37:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b7g2000pre.googlegroups.com; posting-host=207.200.116.11;
     posting-account=0Q4qJQoAAAB4vjIbnPnpY8JqAcYZv7Os
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
     SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s]), HTTP/1.1
     spider-ntc-tb03.proxy.aol.com[CFC87023] (Prism/1.2.1), HTTP/1.1
     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news2.google.com rec.radio.amateur.homebrew:2370

On Mar 23, 3:32=EF=BF=BDpm, Joerg <notthisjoerg...@removethispacbell.net> wrote:
> AF6AY wrote:
> > On Mar 21, 4:31 pm, Joerg <notthisjoerg...@removethispacbell.net>
> > wrote:
> >> AF6AY wrote:
> >>> "Joerg" posted on Fri, Mar 20 2009 6:06 pm
> >>>> ken scharf wrote:
> >>>>> JIMMIE wrote:
> >> Relays are ok in those applications, where there are actual currents
> >> flowing. What I meant was pure signal switching with no DC currents.
>
> > That's called "dry" switching in the electronics industry, has been
> > called that for over a half century.
>

```
> >> Sealed relays, Reeds, mercury-wetted and such work quite well there. B=
ut
> >> non-sealed versions have issues and a snap-on plastic cap ain't a seal=
.
>
> > Didn't say that that it was a seal. =EF=BF=BDBut...there are many kinds=
 of
> > 'seals' and there are many kinds of contact alloys which few hobbyists
> > investigate.
>
> Most must make do with whatever places such as Digikey offer at
> affordable cost.

I disagree considering that Digikey is one of the largest
distributors
in the world of electronics and offers so many different models AND
price ranges.  Then there is Mouser, and Newark, and Allied, and
Jameco, and Ocean State, and Futurlec, and....a whole bunch of
them.  None of those are 'giving away' anything.

> Sure, but in a car relays always switch something that draws a serious
> current, more than a few milliamps. That works for a long time. Well,
> until a "weld wart" shows up, like it did on a relay in out Genie garage
> door opener.

I will disagree again, but not on our particular Chevrolet...I only
got a
glance at the electronics wiring manual at a local dealership service
shop and NOT all the controlled circuits were "serious current" ones.
But, if you are convinced that they ALL are, I can't convince you...

> Hmm, I've had that happen even in $xxxxx lab gear, not quite
> consumer-grade. Never really with mil gear though but those guys can
> often design to "the sky's the limit" cost goals.

Sorry, but that is URBAN MYTH among amateurs.  What amateurs
don't realize is that components are elevated in cost by EXTREME
ENVIRONMENTS required.  Sure, everything at room temperature
works dandy and one can use any kind of schlock parts and get away
with it.  Freeze it below brass-monkey temps or heat it more than
boiling water, drop-kick it across the room, run it under extreme
vibration, it MUST WORK.  Put most ham gear through that and you
won't have enough left to sell anything but its manuals on e-bay.
Been
there, done that for years...its what I did for a living.

----------------<on the AN/PRC-104 HF transceiver>
> But I bet no expense was spared to pick the very best parts for that radi=
o.

I'll bet you've never seen the inside of it, let alone talk with any
of the
staff at Hughes Ground Systems that designed it.  If you want to
```

investigate it, the TMs (user to depot level) are available on the
'Web.
Hard to find and you may need special clearance to access some
military sites nowadays, but it is available for nothing. If you want
to
pay money for such a manual, fine, those are easier to get.

> Sealed relays are ok.

Thank you for such permission. I was using salvaged components
from junkyard electronics a half-century old and know how to test
things that are salvaged. Note: I'm not just making conversation
here,
I'm trying to point out a few things which defy Urban Myth and what
the ARRL deems 'useful' for amateurs.

> I also have a few really old ones here and so far
> they have never let me down. But I don't have enough to equip a filter
> bank with 15-20 in- and outputs. For that I've got a stash of HSMP-3810
> PIN diodes.

I'm not swayed or impressed by a bunch of house numbers. Neither do
I need over a dozen different things switching in/out. For that
matter, I've
tried out 3-penny-apiece 1N4148 diodes (100-lot price), plain old
ordinary
old-fashioned silicon switching diodes and they could work just fine
for
4 different HF circuits...but NOT easily for B+ at 100 VDC...and they
need
more circuitry for controlling them than just relay coils needing only
a back-
EMF clamp diode.

But, what the hey, if you are convinced in only your way of doing
things,
fine, go do it. Excuse me, I'm going off-line and spend some quality
workshop time putting some hardware together. QRT.

73, Len AF6AY

From 3174334453842712686
X-Google-Thread: fc2a5,d8f5c1e658b3c68d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
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prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
flpi149.ffdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Was my father's homebrew double conversion SW receiver a HBR?
References: <Xns9BD1E1FB4B216wa2ise@69.16.185.252> <3151f9e3-fa2d-40f0-bdd0-49eba484eef0@w35g2000yqm.googlegroups.com>
<QX3wl.67367$FI5.20197@newsfe07.iad> <Xns9BD2BB30CC7EFwa2ise@69.16.185.252>
<9085826d-e72a-4cbe-9493-ff92406d552b@q18g2000vbn.googlegroups.com>
<bRVwl.18562$b9.1772@bignews6.bellsouth.net>
<x4Xwl.24362$yr3.21444@nlpi068.nbdc.sbc.com> <6ebc24d7-9c72-46c5-bcb4-b7b7dd4c459c@z6g2000pre.googlegroups.com> <UNexl.10286$%54.8159@nlpi070.nbdc.sbc.com> <539de539-e159-4900-bd9b-a24ab8cd8946@y6g2000prf.googlegroups.com>
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X-Trace: flpi149.ffdc.sbc.com 1237921302 ST000 75.26.187.254 (Tue, 24 Mar 2009 15:01:42 EDT)
NNTP-Posting-Date: Tue, 24 Mar 2009 15:01:42 EDT
Organization: at&t http://my.att.net/
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Date: Tue, 24 Mar 2009 11:55:33 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2371

AF6AY wrote:
> On Mar 23, 3:32�pm, Joerg <notthisjoerg...@removethispacbell.net>
> wrote:
>> AF6AY wrote:
>>> On Mar 21, 4:31 pm, Joerg <notthisjoerg...@removethispacbell.net>
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>>>> AF6AY wrote:
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>>>>>> ken scharf wrote:
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>>>> Relays are ok in those applications, where there are actual currents
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>>> That's called "dry" switching in the electronics industry, has been
>>> called that for over a half century.
>>>> Sealed relays, Reeds, mercury-wetted and such work quite well there. But
>>>> non-sealed versions have issues and a snap-on plastic cap ain't a seal.
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>>> 'seals' and there are many kinds of contact alloys which few hobbyists
>>> investigate.
>> Most must make do with whatever places such as Digikey offer at
>> affordable cost.
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> I disagree considering that Digikey is one of the largest

> distributors
> in the world of electronics and offers so many different models AND
> price ranges. Then there is Mouser, and Newark, and Allied, and
> Jameco, and Ocean State, and Futurlec, and....a whole bunch of
> them. None of those are 'giving away' anything.
>

Sorry, maybe I didn't express it well enough. My point was that not
everyone has a mil budget or a Rockefeller-sized bank account ;-)

>> Sure, but in a car relays always switch something that draws a serious
>> current, more than a few milliamps. That works for a long time. Well,
>> until a "weld wart" shows up, like it did on a relay in out Genie garage
>> door opener.
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> I will disagree again, but not on our particular Chevrolet...I only
> got a
> glance at the electronics wiring manual at a local dealership service
> shop and NOT all the controlled circuits were "serious current" ones.
> But, if you are convinced that they ALL are, I can't convince you...
>

Interesting, my car doesn't have that. Now I am curious. What are they
switching in a car where there is no DC current?

>> Hmm, I've had that happen even in $xxxxx lab gear, not quite
>> consumer-grade. Never really with mil gear though but those guys can
>> often design to "the sky's the limit" cost goals.
>
> Sorry, but that is URBAN MYTH among amateurs. What amateurs
> don't realize is that components are elevated in cost by EXTREME
> ENVIRONMENTS required. Sure, everything at room temperature
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> with it. Freeze it below brass-monkey temps or heat it more than
> boiling water, drop-kick it across the room, run it under extreme
> vibration, it MUST WORK. Put most ham gear through that and you
> won't have enough left to sell anything but its manuals on e-bay.
> Been
> there, done that for years...its what I did for a living.
>

As I said this was high-Dollar lab gear. The kind where they don't even
flinch when an engineer says "this needs a piece of rigid coax".

> ----------------<on the AN/PRC-104 HF transceiver>
>> But I bet no expense was spared to pick the very best parts for that radio.
>
> I'll bet you've never seen the inside of it, let alone talk with any
> of the
> staff at Hughes Ground Systems that designed it. If you want to

> investigate it, the TMs (user to depot level) are available on the
> 'Web.

I've served (army), had to deal with radio/telco equipment. Cleaned many
relays there with Emery paper and alcohol. There is a reason for
instructions like this:

http://www.ansaldo-sts.com/EN/AnsaldoSTS/private/private_files/corporate/Mechanical_Relay_Manuals/SM_4560_-_Instructions_for_Relay_Cleaning.pdf

> Hard to find and you may need special clearance to access some
> military sites nowadays, but it is available for nothing. If you want
> to
> pay money for such a manual, fine, those are easier to get.
>
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>
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>
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>
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> matter, I've
> tried out 3-penny-apiece 1N4148 diodes (100-lot price), plain old
> ordinary
> old-fashioned silicon switching diodes and they could work just fine
> for
> 4 different HF circuits...but NOT easily for B+ at 100 VDC...and they
> need
> more circuitry for controlling them than just relay coils needing only
> a back-
> EMF clamp diode.
>

Yep, usually a resistor plus on occasion a choke in series with it, and
enough voltage to be able to be able to reverse the diodes far enough.

> But, what the hey, if you are convinced in only your way of doing
> things,
> fine, go do it. Excuse me, I'm going off-line and spend some quality
> workshop time putting some hardware together. QRT.

```
>

Have fun :-)

I am going to have to repair a bench supply that blew its power
transistors way down in there. Not much fun.

--
73, Joerg


From 6564262637734119763
X-Google-Thread: fc2a5,3a78cb4828ccc76a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
flpi147.ffdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Nuvistor TV preamp mod
References: <b8ab8090-d338-4dfd-8857-6c49a4ec75a1@c36g2000yqn.googlegroups.com>
     <49c1b2d6$0$4955$9a6e19ea@unlimited.newshosting.com> <957da915-f5ac-40f5-
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18:38:52 EDT)
NNTP-Posting-Date: Tue, 24 Mar 2009 18:38:52 EDT
Organization: at&t http://my.att.net/
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TINTDDMVW[X\THOPXZRVOCJTUTPC\_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Tue, 24 Mar 2009 15:44:56 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2372

AF6AY wrote:
> Lawrence Statton posted on Sat, Mar 21 2009 6:46 am
>
>> "Unca Pete" <radioconnection@cox.net> writes:
>>> I'll join the ARRL the day I can choose QEX over the QST
>>> forced subscription that comes with the membership.
```

>>>
>>> Pete k1zjh
>> Have you ever thought of JOINING ARRL, and using your position as
>> a member to petition for this change?
>>
>> Change is made by those who participate.
>>
>> --N1GAK
>
> CHANGE is made by those who cozy up to the Old Boys Network of the
> League. The arch-conservatives there want only ONE thing: Preservation
> of their rank/status/title and the ability to Rule. The rest is just
> PR BS to convince members that They are 'for' members. As a voting
> member of the ARRL (until end of March) for two years, I've gotten a
> chance to 'vote' just once and then only for lower positions;
> candidacy for Director was unopposed so the incumbent was
> 'automatically' elevated to another term. Some 'voting,' not.
>

[...]

Ok, understood, although the ARRL Handbook was "the" eye opener for me as a kid.

But:

```
>
> Len Anderson, AF6AY
> Life Member, IEEE (a Professional Association)
                      ^^^^^^^^^^^^^^^^^^^^^^^^^^
```

Full disclosure: I am also an IEEE member. However, despite numerous efforts by myself and others they could not even get the virtual communities off the ground and with that dreaded web interface they insist on keeping they never will. Now I haven't given up yet and one of the forum admins is also pushing to at least provide a parallel newsreader access. It certainly ain't rocket science. We'll see.

Then the "professional" side of their member benefits such as the Financial Advantage Program or FAP. Yesterday I called for the umpteenth time because a new client of mine wants to see professional liability insurance. The answer: As usual they will decline to quote because part of my job is to design medical devices. The topper was when they told me that the IEEE plan does not cover any work for a company outside the US (this one is) even if we'd exclude medical devices. Almost dropped my water bottle. Is the earth still flat and at the end of the oceans we'd fall off of it? And here I thought they had made it into the 21st century ...

Oh, and when I asked for a homeowners insurance quote a while ago the answer was "no plans available for the county where I live". To be honest, all this doesn't convey too much professionalism.

--
73, Joerg

```
From -7245138989170115904
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!wn11feed!
worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
From: "RadioGuy" <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Boys Book Of Radio And Electronics - Destroyed!
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
Message-ID: <nvqyl.484582$Mh5.400664@bgtnsc04-news.ops.worldnet.att.net>
Date: Wed, 25 Mar 2009 13:40:35 GMT
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2009 13:40:35 GMT)
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Organization: AT&T Worldnet
Xref: g2news2.google.com rec.radio.amateur.homebrew:2373
```

Childrens books (including Alfred Morgan's) before 1985 are being destroyed
due to lead content in the ink as per Consumer Product Safety Commission
ruling.

Please review article: http://www.city-journal.org/2009/eon0212wo.html

RG

```
From -8663532356789294449
X-Google-Thread: fc2a5,2e351383df16bcb9
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in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-
nntp-01.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <nvqyl.484582$Mh5.400664@bgtnsc04-news.ops.worldnet.att.net>
Subject: Re: Boys Book Of Radio And Electronics - Destroyed!
Lines: 15
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X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <VYNyl.86214$9j5.23196@en-nntp-01.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Thu, 26 Mar 2009 09:22:11 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:2374

"RadioGuy" <nospam@nospam.com> wrote in message
news:nvqyl.484582$Mh5.400664@bgtnsc04-news.ops.worldnet.att.net...
> Childrens books (including Alfred Morgan's) before 1985 are being destroyed
> due to lead content in the ink as per Consumer Product Safety Commission
> ruling.

Sounds dumb, but I'm not surprised. One of the downsides of living in a relatively modern society, I guess.

With the "lead in toys from China" fiasco last year, the lost Goodwills stopped accepting any toys 100%, apparently figuring that many consumers would use them as a "dumping ground" for recalled toys and not have the resources to verify whether specific incoming toys were on the recall list. :-(

From 7396397358914913793
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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newsfeed2.telusplanet.net!newsfeed.telus.net!edtnps83.POSTED!7564ea0f!not-for-mail
From: Thomas M. Alldread <tmall@telus.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Dual 200MHz AM/FM DDS RF Gen./LvlMeter Project
Message-ID: <2jqns4pphv1h7gi9tqdrpvjqicedvfjvs9@4ax.com>
X-Newsreader: Forte Agent 1.8/32.548
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Content-Transfer-Encoding: 7bit
Lines: 18
Date: Thu, 26 Mar 2009 21:01:04 GMT
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X-Trace: edtnps83 1238101264 205.250.177.233 (Thu, 26 Mar 2009 15:01:04 MDT)
NNTP-Posting-Date: Thu, 26 Mar 2009 15:01:04 MDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:2078

Greetings Fellow Surface Mount Construction Enthusiests:

Additional information on my new NimbleSig III dual output AM/FM,
relative phase controlled DDS signal generator/signal level meter
project currently being published in the first three 2009 issues of
the ARRL's QEX magazine can be found on my website at:

http://www3.telus.net/ta/NimbleSig%20III/

Note: The successful completion of this project requires good
surface mount construction skills and tools.

73 & Enjoy!
Tom, VA7TA
va7ta@telus.net

From 8267966506731753111
X-Google-Thread: fc2a5,2e351383df16bcb9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!news-in-01.newsfeed.easynews.com!easynews!core-easynews-01!easynews.com!en-nntp-03.dc1.easynews.com.POSTED!not-for-mail
From: John Ferrell <johnferrell@sprintmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Boys Book Of Radio And Electronics - Destroyed!
Message-ID: <2p1os45j6u9rqpdc17eiport9tpi4a70nh@4ax.com>
References: <nvqyl.484582$Mh5.400664@bgtnsc04-news.ops.worldnet.att.net>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
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Content-Transfer-Encoding: 7bit
Lines: 14
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Thu, 26 Mar 2009 18:54:23 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:2079

On Wed, 25 Mar 2009 13:40:35 GMT, "RadioGuy" <nospam@nospam.com>
wrote:

>Childrens books (including Alfred Morgan's) before 1985 are being destroyed
>due to lead content in the ink as per Consumer Product Safety Commission
>ruling.
>
>Please review article: http://www.city-journal.org/2009/eon0212wo.html
>
>RG
>

You need to read "Fahrenfeit 451" by Ray Bradbury I think.

John Ferrell W8CCW

From -6068078785023755243
X-Google-Thread: fc2a5,2e351383df16bcb9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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gnilink.net!nx01.iad.newshosting.com!newshosting.com!post02.iad!
news.dslextreme.com!not-for-mail
Date: Thu, 26 Mar 2009 17:14:05 -0700
From: dave <dave@dave.dave>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.19) Gecko/
20081204 SeaMonkey/1.1.14
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Boys Book Of Radio And Electronics - Destroyed!
References: <nvqyl.484582$Mh5.400664@bgtnsc04-news.ops.worldnet.att.net>
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Organization: dslextreme.com
X-Complaints-To: abuse@dslextreme.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:2080

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>>
>> Please review article: http://www.city-journal.org/2009/eon0212wo.html
>>
>> RG
>>
> You need to read "Fahrenfeit 451" by Ray Bradbury I think.
>
> John Ferrell W8CCW

It was two books. Boys' [First] Book of Radio and Electronics and

Boys' Second Book of Radio and Electronics.

I learned a lot more from The Radio Amateur's Handbook

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From -6003718196522452938
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mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Nuvistor TV preamp mod
Date: Thu, 26 Mar 2009 17:49:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 113
Message-ID: <26b847ed-ade3-4897-a0bf-7ba1cdfaac0e@d25g2000prn.googlegroups.com>
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     spider-ntc-td05.proxy.aol.com[CFC87065] (Prism/1.2.1), HTTP/1.1
     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news2.google.com rec.radio.amateur.homebrew:2378
```

On Mar 24, 3:44=EF=BF=BDpm, Joerg <notthisjoerg...@removethispacbell.net> wrote:

>Full disclosure: I am also an IEEE member. However, despite numerous
>efforts by myself and others they could not even get the virtual...

You seem frustrated and are Venting about something that isn't even remotely "homebrew." When you pick up on a signature, that is a sure sign you are spoiling for some kind of Fight. <shrug>

I've been getting paid for moving electrons around, guiding fields and waves for 56 years. I've been playing around with a slightly different area of electronics for 62 years as a pure hobbyist, not seeking some kind of fame or notoriety or anything else, just for the fascination of moving electrons the way I'd like them to move. I don't pretend to be an "expert" in electronics or radio...just one who has been around both the electronics industry (in rather different areas, not always of my own chosing) and hobby electronics for a rather long time. I'd thought that more people might be interested in some different ways to do the same circuit tasks, therefore I suggested those from time to time in places such as forums. Obviously not. Too many have THEIR "best way" on things and what THEY do is "so much better." Sigh...

My enthusiasm for electronics got the better of me and, after a long absence of not bothering to post anything in rec.radio.homebrew, I brought up RELAYS as an ALTERNATE way of switching RF circuits at HF. I will apologize for that since I can (obviously) see that some have their "pet" ways of doing things and aren't open to suggestions.

I became a member of the IEEE late, in 1973. Dues-paying kind. Main reason was to add to my WORK knowledge...that which paid for my living.
I did not go into it for any "benefits" package advantages because I had most such benefits already. I am not one to "fall" for professional Advertising (I am a "hard sell" for all salespeople).
Under IEEE association bylaws, Life Membership is achieved solely by tenure, no extra monies involved nor are accepted to achieve that.
On reaching Life Membership, NO dues are required, full membership is free, and members get the informative membership magazine "Spectrum" free every month. It is a Professional organization because it is all about the Profession of electronics. I regard myself as a "professional" for the simple reason of getting paid for work in that field, like that work, like that play (as a hobbyist) and have been doing it for over a half century. I've been fortunate (sometimes unfortunate) to work in several varied disciplines within electronics and got interested in those disciplines. Sometimes the different techniques could apply themselves to hobby activities and sometimes hobby experiments were useful in professional work. There never has been a clear-cut demarkation line of technology between avocational activies and occupational activities except as forced by certain groups within the overall activity.

You will notice a "callsign" in my signature, that of an Amateur Extra class callsign group assigned by the FCC. I did not bother with getting my first-ever amateur radio license until some time in January 2007 and then to pass all test elements on one Sunday afternoon on 25 February 2007. I did that for two reasons: I was able to do it (and had the chutzpah to do so); it was a convenience to have the least restrictions on operation in what MIGHT have been an enjoyable pasttime in my retirement (I still work in electronics but only on my terms (therefore not often) and not in "regular hours." I run into the SAME sort of "I SHOULD have done it <so-and-so>" in nearly every field of endeavor where there are CERTAIN ways that things "MUST be done."

In a burst of enthusiasm, I joined the ARRL immediately after getting my federal amateur radio license grant (one cannot be a voting member without that grant according to League rules). That was another mistake I made. That AMATEUR organization membership is expiring at the end of March and I am not renewing. As a hobbyist, that AMATEUR membership has offered me almost NOTHING in return. I have voiced my opinion on that AMATEUR organization in OTHER forums, to the FCC on amateur radio regulations, and enought that I don't wish to go into it here. Despite having started in big time HF communications 56 years ago, long-time amateurs consider me a "newbie," a "beginner in radio" and that is disheartening, taking away much of my interest in ALL electronics.

In other forums NOT on amateur radio, I have been negatively criticized for being a member of certain organizations that the "expert" critics champion or dislike. For example, the ACM. the first professional association about computing worldwide. NOW, I see complaints about BENEFITS packages of the IEEE not meeting with certain individual's approval. I am not a follower nor an approver of Benefits Packages, nor a spokesperson of any kind for of those. There is very little in ANY Benefits Package that is of "benefit" in ANY homebrew electronics hobby activity. I will emphasize HOMEBREW. Radio. Electronics.

For all my time spent working with, or being hobbyist in, electronics, many and varied "experts" have TOLD me in no uncertain terms that "This is the way 'we' do it in <activity>." I MUST do it as those "experts" say. Sorry, but having been IN the activity for a long time and watching the technology CHANGE, to have NEW ways and components introduced since 1947, I have to throw that didactic insistence (indeed a polemical philosophy) in the dumpster. If someone finds/discovers/innovates something while engaged in hombrewing some radio or other electronics, something NOT normally done but still follows established laws of physics, then it should be, in my viewpoint, be presented for other hobbyists. In the spirit of that being a possible useful thing that others might be able to use in their hobby activity. It should NOT be given in terms of "look what *I* did" as some claim to "expertise." It might be USEFUL to others in their hobby work. I feel that anyone who wants to discuss matters totally different than a forum's intended sphere of interest go find the appropriate forum to vent.

I've learned one more thing in Life here. Do not indicate one's affiliation or pride or other personal feelings in a "signature" of a posting...others do not like that. No matter, my amateur radio license callsign can get my legal address.

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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII

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Path: g2news1.google.com!postnews.google.com!e35g2000yqc.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Nuvistor TV preamp mod
Date: Fri, 27 Mar 2009 00:59:21 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
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Xref: g2news1.google.com rec.radio.amateur.homebrew:2082

On Mar 18, 10:50=A0pm, RFI-EMI-GUY <Rhyol...@NETTALLY.COM> wrote:
> JIMMIE wrote:
> > I have 3 mast mounted nuvistor pre amps less power supplies. I was
> > looking for information on these to convert them to use on the 6 and 2
> > meter =A0and 70cm ham bands. I may still have a power supply around but
> > as of yet I havent been able to find it. The pre amps are mount in a
> > somewhat egg shaped plastic container with twin lead connections on
> > them. Im not sure of the manufacturer. Schematics on the amplifiers
> > and power supplies would be nice. Directions on doing the mod would be
> > great. There are plans for ham band nuvistor preamps around so if I
> > could figure out what I have it shouldnt be that difficult to conver
> > it to what I want. Besides that it will give me something to do with
> > these old 6cw4s.
>
> > Jimmie
>
> You would do good to find a 70's or earlier ARRL handbook. There were
> many articles about Nuvistors.
>
> --
> Joe Leikhim K4SAT
> "The RFI-EMI-GUY"=A9
>
> "Use only Genuine Interocitor Parts" Tom Servo =A0;-P

Well I got a little 2M nuvistor pre-amp put together last night. Im
not sure of the noise figure of the amp but according to my S meter it
```

```
must have about at least 20 db of gain, maybe 30.

I will have to take it into work were I have the  test equipment to
check it out better.

Jimmie



From -3529689973376394308
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From: "RadioGuy" <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
References: <nvqyl.484582$Mh5.400664@bgtnsc04-news.ops.worldnet.att.net>
<2p1os45j6u9rqpdc17eiport9tpi4a70nh@4ax.com>
<49cc1a4f$0$31214$bd467cd0@news.dslextreme.com>
Subject: Re: Boys Book Of Radio And Electronics - Destroyed!
Lines: 52
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X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
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Message-ID: <ua3zl.84854$4m1.66260@bgtnsc05-news.ops.worldnet.att.net>
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2009 11:57:14 GMT)
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Organization: AT&T Worldnet
Xref: g2news2.google.com rec.radio.amateur.homebrew:2380



"dave" <dave@dave.dave> wrote in message
news:49cc1a4f$0$31214$bd467cd0@news.dslextreme.com...
> John Ferrell wrote:
>> On Wed, 25 Mar 2009 13:40:35 GMT, "RadioGuy" <nospam@nospam.com>
>> wrote:
>>
>>> Childrens books (including Alfred Morgan's) before 1985 are being
>>> destroyed due to lead content in the ink as per Consumer Product Safety
>>> Commission ruling.
>>>
>>> Please review article: http://www.city-journal.org/2009/eon0212wo.html
>>>
>>> RG
>> You need to read "Fahrenfeit 451"  by Ray Bradbury I think.
>>
>> John Ferrell W8CCW
```

>
> It was two books. Boys' [First] Book of Radio and Electronics and
>
> Boys' Second Book of Radio and Electronics.
>
> I learned a lot more from The Radio Amateur's Handbook

I wonder... what's to stop them from going beyond children books? Besides, what is a children's book http://en.wikipedia.org/wiki/Children's_books I never did find a suitable definition and for the precocious child it could be anything. And for that matter, what about any pre-1985 book in the vicinity of children. I can see how can this develop over time... handlers of books will slowly avoid any pre-1985 books from fear of liability suits---perhaps even history books printed in the 1940's. Consider the overall results 50 years from now.

Yes... I went through the first, second, third and fourth 'Boy's Book'. I built the crystal sets, one transistor CK722 amplifier, one tube amplifier and Geiger Counter. I wish I could afford collecting those old Morgan books but at $100 or more each forget it. Then there were those countless ARRL publications from QST to the 'Handbook' with those big B&W photos of goregous point-to-point wiring with lead ink that I would drool over for countless hours.

With regard to '451', the theme of censorship has appeared in many novels in widely different plots... but they all express censorship and attempt the control of thoughts and ideas. The CPSC ruling is a disturbing precedent!

Perhaps the digitizing of books may be a safe recourse---but who can be trusted to make the selections of what to digitize, who will maintain and oversee electronic libraries?

RG

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From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Nuvistor TV preamp mod
Date: Fri, 27 Mar 2009 05:22:26 -0700 (PDT)
Organization: http://groups.google.com
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Xref: g2news1.google.com rec.radio.amateur.homebrew:2084

On Mar 27, 3:59=A0am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> On Mar 18, 10:50=A0pm, RFI-EMI-GUY <Rhyol...@NETTALLY.COM> wrote:
>
>
>
>
>
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> > > I have 3 mast mounted nuvistor pre amps less power supplies. I was
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2
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ut
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e
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>
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>
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>
> > --
> > Joe Leikhim K4SAT
> > "The RFI-EMI-GUY"=A9
>
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>
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> must have about at least 20 db of gain, maybe 30.
>
```

> I will have to take it into work were I have the =A0test equipment to
> check it out better.
>
> Jimmie- Hide quoted text -
>
> - Show quoted text -

Anyone know what kind of noise figure I could expect out of a 6cw4
nuvistor preamp. I only saw one reference and it mentioned 3db but
mostly all the other references just talked about gain.

Jimmie

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Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2m Bandpass Filter
References: <e779fe3d-653f-4b3f-af66-4b9f50a1a8d9@v39g2000yqm.googlegroups.com>
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Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Fri, 20 Feb 2009 11:18:37 -0800
Message-ID: <d9c376-2mn.ln1@radagast.org>
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properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1885
```

In article <3bonl.35433$qt3.917@newsfe10.iad>,
Tio Pedro <radioconnection@cox.net> wrote:

>If the interference is the result of a third order IMD product,
>each 3 dB of rejection will yield a 9 dB improvement in the
>third order intercept point.
>

>A modest filter might yield surprising results, it isn't a linear
>relationship.

For what it's worth: I used to have terrible pager-intermod problems with my Yaesu VX-5, when used with any reasonably-efficent antenna (e.g. J-pole)... pager-transmitter intermod drove it wild. This seems to be a common problem with most current-generation HTs, with their wide-open "DC to daylight" front ends whose high sensitivity (for use with lossy rubber-duck antennas) leaves them prone to being badly blasted by strong signals.

The solution I settled upon was the PAR Electronics VHFTN152-158, a notch filter specifically tuned to eliminate the VHF paging band, while passing other signals. PAR claims a notch depth of 50 dB (typical) at pager frequencies, with low loss at 2M and 440 frequencies. From the look of the filter, I believe it's probably a set of three helical resonators shunted across the line.

Problem solved - the VX-5 suffers no pager intermod at all that I can hear.

The same filter did *not* help, though, in curing a desense problem with our repeater's remote-link receiver, which was being blasted by a newly-installed paging system located in the same building. The pager was operating up in the mid-160MHz range, outside of the PAR filter's notch. We installed a DCI cavity-bandpass filter and the problem went away.

In re the OP's problem - I wonder whether it might be possible to home-brew a moderate-Q helical filter to serve as a notch? The old ARRL VHF handbook has some diagrams of this sort of thing. As Tio points out, one might not need all that deep a notch to result in an acceptable reduction in intermodulation and desense.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

From 6943447113169653907
X-Google-Thread: fc2a5,7625634cca088955
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.posted.plusnet!news.posted.plusnet.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 21 Feb 2009 14:26:42 -0600
From: "John" <jrw[no_spam_today_thank_you]@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <5MSdnThvLMVIeRTUnZ2dnUVZ8u6dnZ2d@posted.plusnet>
Subject: WIA 'Amateur Radio' 10m FM Tcvr

Date: Sat, 21 Feb 2009 20:29:16 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <882dnVdFLMcf_j3UnZ2dnUVZ8uGdnZ2d@posted.plusnet>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-lIrnzXhZ9ClHZXB6WjTzAqHhCNCryopDUM40xEhweT+aeCQTBzXpTZ3Dc6S6DX5aI+wUOOWciGjMA00!ffTcDAOZyF51v1b0mhl6sYvtrqvtNTecV62hWYP8KNdvIienkHA/BAalhrfTwYWvtchQwH3ZxYmv!SamaemTYsrqt
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2183

Hello folks,

I read with interest on this web page http://blog.marxy.org/2009/01/amazing-transmitter-that-uses-atmega16.html about an article in WIA's Amateur Radio featuring a 10m FM transceiver design using an AD9851 and an ATmega16. Does anyone have a copy of this article (and the software to go on the chips) so I could have a look at it please?

73

John

--
www.wells10000.plus.com/m5aml
--

From 4535110751077415508
X-Google-Thread: fc2a5,a4faf611d5ee7b21
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!newsfeed.straub-nv.de!news.albasani.net!not-for-mail
From: No Spam <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transmitter filter relay switching?

```
Date: Sat, 21 Feb 2009 20:38:01 +0000 (UTC)
Organization: albasani.net
Lines: 34
Message-ID: <gnpon8$b1k$2@news.albasani.net>
References: <0e6dcccd-d955-4119-bfba-1de3d447bd49@s24g2000vbp.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
X-Trace: news.albasani.net
stjUcSbmmeGUnZiibWYxh00OAFcJoiVsViao8VCcwKuns9avnAJptDyoy9FGw8rP4Kyhqfm39nxwiXh4KJ
39v+D3BBBEVHwqgY++xI9U2KEh4T6H5D8R9O7vf6XLS2qk
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Sat, 21 Feb 2009 20:38:01 +0000 (UTC)
X-User-ID: v7Br9VzJoFntt45C2MjLY5mRjuXLwbAHwQ9qAQZsu+4=
Cancel-Lock: sha1:7G2LvAIbvKIRacO0g+TNUKxaW/U=
X-NNTP-Posting-Host: o20CfsxWJNOn/y0XxARD04XtdzbalJ+IVOmWyxUeUhc=
Xref: g2news2.google.com rec.radio.amateur.homebrew:2184

On Tue, 17 Feb 2009 08:25:16 -0800, Ross, NS7F wrote:

> This is with regards to a medium-power (~50W) CW transmitter that I am
> building for 40, 20, 15, & 10m. I would like to use relays to switch the
> output filters, but have no idea what kind of relay I will need. Dr
> Sabin mentioned that a high-quality relay is required (http://
> www.google.com/url?url=http://groups.google.com/g/d5a7ff03/
t/3d5e036fddd024eb/d/355b6c8e64361096%3Fhl%3Den%26ie%3DUTF-8%26oe%3Dutf-8%
26q%3Dsabin%2Brelay%2Bband%2Bfilter%23355b6c8e64361096&ei=u-SaSdCSGIOU-
wGVlcGnBQ&sa=t&ct=res&cd=1&source=groups&usg=AFQjCNHG7VKozzInElLsIi0baYXpyphcAw
> ) but I have been unable to find anything specific. Could anybody please
> direct me to a resource that would help me answer this question? Thank
> you very much.
>
> For reference, the transmitter is a redesign of the classic '60s
> "inexpensive 75W transmitter", originally by Lew McCoy (I believe), one
> version of which can be found at (http://www.mines.uidaho.edu/
> ~glowbugs/inexpensive75wattxmitter.pdf ). It is a simple crystal-
> controlled 6AG7 followed by an 807 amplifier at 75W input (<50W output).
> The filters are from Ed Wetherhold's article- (available at
> http://www.arrl.org/tis/info/pdf/9902044.pdf ) 7th order "Chebyshev With
> Added Zero" to give better second harmonic attenuation.
>
> Best regards,
> Ross, NS7F

I've found that for RF below 2m, about any really will work within
reason. Bad relays to use are reed relays or any relays where the RF
leads are wrapped or parallel with large surfaces. Yaesu and Icom use
smaller DIP based relays just like the ones at radio shack. I would
simply calculate the current at the power level you need and use the
appropriate relay. I use "KP" relays all the time. even in the 2m band.
```

```
From 6117133140375613036
X-Google-Thread: fc2a5,b85401acd1414d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.posted.plusnet!news.posted.plusnet.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 22 Feb 2009 07:46:22 -0600
From: "John" <jrw[no_spam_today_thank_you]@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <af9e400d-b057-4cc8-8b19-4ae9179b3705@l33g2000pri.googlegroups.com>
<e9f20187-9263-4782-85e0-84bcd5227837@b30g2000prf.googlegroups.com>
Subject: Re: how to reduce charging time of capacitor
Date: Sun, 22 Feb 2009 13:49:38 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <3ZydndT4lbyzyjzUnZ2dnUVZ8qLinZ2d@posted.plusnet>
Lines: 16
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
KiCQVWIxrK7SWh+6pHxIG3v5k8NWo7k0r7Isx25P6Qe83LZNu7hEXVsNHyxJ82eqhLR2aly5Ynt2LmJ!
IbN8P9k1VLrktkX0G1M3mzXyC9cmFonE6Ld9ARKzoen3soyggL8tAtRGj5ejUwbtoEe9tThM9KeZ!
NHf70LU9zZYe
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2185
```

More info on Solarroller:
http://en.wikipedia.org/wiki/Solarroller

JOHN

--

 -
 - - - - - - -
If you're looking for a service provider that gives you a fast,
award winning & reliable service at a great price, PlusNet
is definitely for you.

http://www.wells10000.plus.com/   for more info.

```
From 8971803992531224016
X-Google-Thread: fc2a5,ae3166f19c9219c1,start
X-Google-Thread: 107ada,ae3166f19c9219c1,start
```

```
X-Google-Attributes: gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
flpi149.ffdc.sbc.com.POSTED!ac3deb13!not-for-mail
From: Esther & Fester Bestertester <not@me.really>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
Subject: Hack a DTV antenna for dual directions?
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Reply-To: not@me.really
Lines: 21
NNTP-Posting-Host: 99.189.171.35
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi149.ffdc.sbc.com 1235343980 ST000 99.189.171.35 (Sun, 22 Feb 2009
18:06:20 EST)
NNTP-Posting-Date: Sun, 22 Feb 2009 18:06:20 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
Q[OCRZKE^ZRWBQH]^JKBOW@@YJ_ZTB\MV@BNMRQIMASJETAANVW[AKWZE\]^XQWIGNE_[EBL@^_\^JOCQ^
RSNVLGTFTKHTXHHP[NB\_C@\SD@EP_[KCXX__AGDDEKGFNB\ZOKLRNCY_CGG[RHT_UN@C_BSY\G__IJIX_
PLSA[CCFAULEY\FL\VLGANTQQ]FN
Date: Sun, 22 Feb 2009 15:00:44 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:8293
rec.radio.amateur.homebrew:1889 rec.radio.amateur.misc:3802
```

I've got this antenna:

<http://www.hdtvprimer.com/ANTENNAS/cm4228.html>

From my location the 2 largest DTV transmitter clusters are approximately 60 degrees apart.

How effective would it be to modify this antenna such that each of the 2 bays pointed to each transmitter cluster?

Yes, I know it's probably best to buy 2 antennae and couple them, but funds are really scarce and I've got time on my hands.

1. Would it work?
2. What are the practical down-sides (engineering blasphemies aside)?

I know this is not an elegant solution, so if your only comment is to say this, please resist.

Thanks.

From 6237183482980787632
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe18.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Hack a DTV antenna for dual directions?
Lines: 7
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <9Zkol.46432$RJ7.41918@newsfe18.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe18.iad 1235344325 68.229.77.6 (Sun, 22 Feb 2009 23:12:05 UTC)
NNTP-Posting-Date: Sun, 22 Feb 2009 23:12:05 UTC
Organization: Cox
Date: Sun, 22 Feb 2009 18:12:02 -0500
Xref: g2news1.google.com rec.radio.amateur.antenna:8294
rec.radio.amateur.homebrew:1890 rec.radio.amateur.misc:3803

I'd think you'd really sacrifice the VHF hi-band coverage if you
do so. Do you, or will you, have and digital stations that will
remain in the VHF band?

Pete

From 7469357310828435576
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news2
From: Bill M <radioexray@geeemail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Date: Sun, 22 Feb 2009 16:28:02 -0700

```
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 40
Message-ID: <gnsn2a02c53@news2.newsguy.com>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
NNTP-Posting-Host: p34d1bfbfff00000039aa3817ddd3724a422f6b3c5c42ed17.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
In-Reply-To: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
Xref: g2news1.google.com rec.radio.amateur.antenna:8296
rec.radio.amateur.homebrew:1891 rec.radio.amateur.misc:3804
```

Esther & Fester Bestertester wrote:

> I've got this antenna:
>
> <http://www.hdtvprimer.com/ANTENNAS/cm4228.html>
>
> From my location the 2 largest DTV transmitter clusters are approximately 60
> degrees apart.
>
> How effective would it be to modify this antenna such that each of the 2 bays
> pointed to each transmitter cluster?
>
> Yes, I know it's probably best to buy 2 antennae and couple them, but funds
> are really scarce and I've got time on my hands.
>
> 1. Would it work?
> 2. What are the practical down-sides (engineering blasphemies aside)?
>
> I know this is not an elegant solution, so if your only comment is to say
> this, please resist.
>
> Thanks.
>

Can't find an old Tenna-Rotor for cheap? Me neither.

Hate to suggest hacking up your antenna but sure, I think you could 'bend' it down the middle 60 degrees and accomplish that.

In the analog days that might have resulted in terrible ghosting but the latest 8VSB technology can operate even with a multipath signal at 1-2db down.

(That also means that if you have a 2004 vintage DTV or DTV converter it might not work if multipath comes into play)

Second idea. If you are in a fairly strong reception area why not simply build a pair of homebrew antennas before hacking up your good one? There's some plans on the web, one notorious one is on YouTube with DIY instructions.

-Bill

```
From -5010848274786361991
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!v19g2000yqn.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Date: Sun, 22 Feb 2009 15:32:58 -0800 (PST)
Organization: http://groups.google.com
Lines: 31
Message-ID: <e62e7222-3d24-4d31-b9f7-614640da7a11@v19g2000yqn.googlegroups.com>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
NNTP-Posting-Host: 165.254.211.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1235345579 31356 127.0.0.1 (22 Feb 2009 23:32:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 22 Feb 2009 23:32:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v19g2000yqn.googlegroups.com; posting-host=165.254.211.4;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:10075
rec.radio.amateur.homebrew:2189 rec.radio.amateur.misc:4060
```

On Feb 22, 6:00=A0pm, Esther & Fester Bestertester <n...@me.really>
wrote:

> I've got this antenna:
>
> <http://www.hdtvprimer.com/ANTENNAS/cm4228.html>
>
> From my location the 2 largest DTV transmitter clusters are approximately=
 60
> degrees apart.
>
> How effective would it be to modify this antenna such that each of the 2 =
bays
> pointed to each transmitter cluster?
>
> Yes, I know it's probably best to buy 2 antennae and couple them, but fun=
ds
> are really scarce and I've got time on my hands.
>

> 1. Would it work?
> 2. What are the practical down-sides (engineering blasphemies aside)?
>
> I know this is not an elegant solution, so if your only comment is to say
> this, please resist.
>
> Thanks.

I think hacking an antenna so that half is pointing in one direction
and half 60 degrees awy would be worse than just pointing the antenna
half way between the two TV clusters.

Jimmie

From -8742760946320921928
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe24.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
<gnsn2a02c53@news2.newsguy.com>
Subject: Re: Hack a DTV antenna for dual directions?
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <lmlol.19722$g63.6848@newsfe24.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe24.iad 1235345937 68.229.77.6 (Sun, 22 Feb 2009 23:38:57 UTC)
NNTP-Posting-Date: Sun, 22 Feb 2009 23:38:57 UTC
Organization: Cox
Date: Sun, 22 Feb 2009 18:38:55 -0500
Xref: g2news2.google.com rec.radio.amateur.antenna:10076
rec.radio.amateur.homebrew:2190 rec.radio.amateur.misc:4061

http://www.wa5vjb.com/references/CheapYagi4HDTV.pdf

Well, if funds are tight, and you have time, build two of
these antennas designed by Kent Britain. They'll work
better than the antenna you cited (for UHF), and also
have the benefit of being 75-ohm impedance.

Pete k1zjh

From -1445544311022281978
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news-in-01.newsfeed.easynews.com!news-
in-02.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-
nntp-03.dc1.easynews.com.POSTED!not-for-mail
From: Richard Clark <kb7qhc@comcast.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Message-ID: <2fu3q49rtg1qltrvtia6g76nu0l6jk1ipi@4ax.com>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 24
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Sun, 22 Feb 2009 17:27:22 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:8299
rec.radio.amateur.homebrew:1894 rec.radio.amateur.misc:3808

On Sun, 22 Feb 2009 15:00:44 -0800, Esther & Fester Bestertester
<not@me.really> wrote:

><http://www.hdtvprimer.com/ANTENNAS/cm4228.html>
>
>From my location the 2 largest DTV transmitter clusters are approximately 60
>degrees apart.
>
>How effective would it be to modify this antenna such that each of the 2 bays
>pointed to each transmitter cluster?

hacksaw the top and bottom angle bars to just break the lip that
extends out from the mast (rather than lays against the mast).

Bend the angle bars and screen 60 degrees along the length of the mast
so that each side points towards the separate transmitter clusters.
(Giving the appearance of a ship prow pointing halfway between the two
clusters.)

Effectivity? You lose up to 3dB gain; your nulls fill in somewhat;
you don't spend any money.

73's

Richard Clark, KB7QHC

```
From 3109023301185497531
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!newshub.sdsu.edu!
flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!nlpi069.nbdc.sbc.com.POSTED!34b04584!not-for-mail
From: "998cc" <hrd998cc@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<q486l.14057$M01.1560@bignews3.bellsouth.net>
Subject: Re: 6L6 substitute
Lines: 34
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <jcnol.14413$as4.4443@nlpi069.nbdc.sbc.com>
NNTP-Posting-Host: 71.136.181.107
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi069.nbdc.sbc.com 1235353487 ST000 71.136.181.107 (Sun, 22 Feb 2009
20:44:47 EST)
NNTP-Posting-Date: Sun, 22 Feb 2009 20:44:47 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
[[PA@SNG@ZRUCQXYKRKD]_\@VR]^@B@MCPWZKB]MPXHBTWICYFWUQBKZQLYJX\_ITFD_KFVLUN[DOM_A_N
SYNWPFWNS[XV\I]PZ@BQ[@CDQDPCL^FKCBIPC@KLGEZEFNMDYMKHRL_YYYGDSSODXYN@[\BK[LVTWI@AXG
QCOA_SAH@TPD^\AL\RLGRFWEARBM
Date: Sun, 22 Feb 2009 17:44:39 -0800
Xref: g2news2.google.com rec.radio.amateur.homebrew:2192
```

Check out the 6CD6, 20 watts plate dissipation; max plate volts 700. The 6DQ6 is a similar tube but onlt 18 watts PD but handles 770 volts. The next step up will be novar/duodecar compactron color TV sweep tubes which can be expensive due to the explosion of sweep tube CB linear amps in past years/decades.

Why not just design it around a 6146?? Easy to find--and maybe free from another ham.

Best 73.
Russ

"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:q486l.14057$M01.1560@bignews3.bellsouth.net...
> JIMMIE wrote:
>> After years of avoiding morse code I am finally getting into it. the
>> ideal of operating a very simple transmitter appeals to my junkbox/
>> trashcan construction mentality.

>> I am looking for a substitue for a 6L6 that has the plate brought out
>> the top. I was trying to build a little Glowbug transmitter but was
>> having all kinds of problems neutralizing the the thing. I think I
>> would have better luck if I can separate the grid and plate circuits
>> from each other. I am considering an 807 as a replacement Suggestions
>> would be appreciated.
>>
>> Jimmie
> To Hijack an old thread...
>
> The way tubes were numbered sometimes....
> The 25L6 and 50L6 are NOT 6L6's with different heater voltages.
> Actually both of these tubes are IDENTICAL with the 6W6GT except for the
> heater ratings.

From 3353489225914454326
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news.astraweb.com!
border5.newsrouter.astraweb.com!flph200.ffdc.sbc.com!prodigy.net!
flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!flpi149.ffdc.sbc.com.POSTED!
ac3deb13!not-for-mail
From: Esther & Fester Bestertester <not@me.really>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C5C7B170013DD1A8B01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Hack a DTV antenna for dual directions?
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Reply-To: not@me.really
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
<gnsn2a02c53@news2.newsguy.com> <lmlol.19722$g63.6848@newsfe24.iad>
Lines: 15
NNTP-Posting-Host: 99.189.171.35
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi149.ffdc.sbc.com 1235382976 ST000 99.189.171.35 (Mon, 23 Feb 2009
04:56:16 EST)
NNTP-Posting-Date: Mon, 23 Feb 2009 04:56:16 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
Q[R_@SFD\ZVER_@Y@BCD^VX@WB]^PCPDLXUNNHXIJYWZUYICD^RAQBKZQTZTX_I[^G_KGFNON[ZOE_AZN
VO^\XGGNTCIRPIJH[@RQKBXLRZ@CD^HKANYVW@RLGEZEJN@_WZJBNZYYKVIOR]T]MNMG_Z[YVWSCH_Q[G
PC_A@CARQVXDSDA^M]@DRVUM@RBM
Date: Mon, 23 Feb 2009 01:50:40 -0800
Xref: g2news2.google.com rec.radio.amateur.antenna:10084

rec.radio.amateur.homebrew:2193 rec.radio.amateur.misc:4064

> http://www.wa5vjb.com/references/CheapYagi4HDTV.pdf
>
> Well, if funds are tight, and you have time, build two of
> these antennas designed by Kent Britain. They'll work
> better than the antenna you cited (for UHF), and also
> have the benefit of being 75-ohm impedance.
>
> Pete k1zjh

If I DIY, I'll need only one; I'll keep the 4228 and couple it with the DIY.

How do I couple two antennae onto one cable?

Thanks.

From 8300562434894072733
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
news.cs.univ-paris8.fr!side3.eu!news.motzarella.org!motzarella.org!
news.motzarella.org!not-for-mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Date: Mon, 23 Feb 2009 11:32:51 +0000
Organization: A noiseless patient Spider
Lines: 38
Message-ID: <xD3mwNSjlooJFw5u@g3ohx.demon.co.uk>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <2fu3q49rtg1qltrvtia6g76nu0l6jk1ipi@4ax.com>
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
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le7ApLaN64L+WdxZ3XZvzsbfK6he/ErGIBk7HnUhRe4E8eM+KgYmpfW4xkSBkrVGW23oNE/
DYF1Sg1b7nbgjX2KUZRN6WLQiyYGAph5vw==
X-Complaints-To: Please send complaints to abuse@motzarella.org with full headers
NNTP-Posting-Date: Mon, 23 Feb 2009 11:33:00 +0000 (UTC)
X-Auth-Sender: U2FsdGVkX19orL1LKcHHT8ZaNnKp8MzTc567FuB7r1N0s72moBOY3g==
Cancel-Lock: sha1:0kxqb9PcSy5ztXP+hw8RA99rBSI=
User-Agent: Turnpike/6.06-S (<XyVqWG5fKPDDUPCjVRDoeAZnGA>)
Xref: g2news1.google.com rec.radio.amateur.antenna:8307
rec.radio.amateur.homebrew:1897 rec.radio.amateur.misc:3810

In message <2fu3q49rtg1qltrvtia6g76nu0l6jk1ipi@4ax.com>, Richard Clark
<kb7qhc@comcast.net> writes

```
>On Sun, 22 Feb 2009 15:00:44 -0800, Esther & Fester Bestertester
><not@me.really> wrote:
>
>><http://www.hdtvprimer.com/ANTENNAS/cm4228.html>
>>
>>From my location the 2 largest DTV transmitter clusters are approximately 60
>>degrees apart.
>>
>>How effective would it be to modify this antenna such that each of the 2 bays
>>pointed to each transmitter cluster?
>
>hacksaw the top and bottom angle bars to just break the lip that
>extends out from the mast (rather than lays against the mast).
>
>Bend the angle bars and screen 60 degrees along the length of the mast
>so that each side points towards the separate transmitter clusters.
>(Giving the appearance of a ship prow pointing halfway between the two
>clusters.)
>
>Effectivity?  You lose up to 3dB gain; your nulls fill in somewhat;
>you don't spend any money.
>
If you can stand a loss of 3dB, I reckon that should work OK.

As you increase the angle between the two parts of the antenna, the
presently 'pointed' polar diagram will broaden and flatten, then it will
start going heart-shaped (with an increasingly deep null in the centre).
The only downside is that, when you are looking at one transmitter, you
will be picking any reflections coming from the direction of the other.
But, being digital, you will probably get away with it.

Just one point: I'm wondering if, for the highest gain towards each
transmitter, the bend should be 60 degrees - or maybe something a bit
more would be better?
--
Ian



From -8349880272865093810
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 23 Feb 2009 05:57:57 -0600
Date: Mon, 23 Feb 2009 11:57:57 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
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```
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Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
<gnsn2a02c53@news2.newsguy.com> <lmlol.19722$g63.6848@newsfe24.iad>
<0001HW.C5C7B170013DD1A8B01AD9AF@news.sf.sbcglobal.net>
In-Reply-To: <0001HW.C5C7B170013DD1A8B01AD9AF@news.sf.sbcglobal.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
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Message-ID: <v6udnRjJ9fLYEj_UnZ2dnUVZ_rrinZ2d@bright.net>
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X-Trace: sv3-6ObBU65ya5iurrlfSfubT2mpj/rmz8T0H897kQrWtDyDG0jyoemJqpK/
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HqcHDIco6hUJUVHILtyZfYO+qdUitNMLDga6FwfOMkIc5Y88DsMGOyx6dq4hK5ukeEcFgDJDUa1q!
ILKjqkwnMQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.antenna:10086
rec.radio.amateur.homebrew:2195 rec.radio.amateur.misc:4066

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>>http://www.wa5vjb.com/references/CheapYagi4HDTV.pdf
>>
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>>
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>
>
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>
TV splitter.  Any place such as Best Buy, Wal Mart, Radio Shack should
have them.  Normally used to split one antenna to two TVs.  Just reverse
it and put it up by the antennas.  This will "combine" the two antennas
and send the signals down one coax to the TV.

Scott
N0EDV


From 7759163957450302498
X-Google-Thread: fcc6e,ae3166f19c9219c1
```

```
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
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NNTP-Posting-Date: Mon, 23 Feb 2009 06:18:11 -0600
Date: Mon, 23 Feb 2009 12:18:10 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
<gnsn2a02c53@news2.newsguy.com> <lmlol.19722$g63.6848@newsfe24.iad>
<0001HW.C5C7B170013DD1A8B01AD9AF@news.sf.sbcglobal.net>
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Lines: 17
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NNTP-Posting-Host: 81.178.71.168
X-Trace: sv3-PY7dWQOBgmXfAarEwBJqO8bmi8u46/
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vxbmn401lVrp4zJUKyqN3LDkiA==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:8309
rec.radio.amateur.homebrew:1899 rec.radio.amateur.misc:3812



>> How do I couple two antennae onto one cable?
>>
>> Thanks.
>>
> TV splitter.  Any place such as Best Buy, Wal Mart, Radio Shack should
> have them.  Normally used to split one antenna to two TVs.  Just reverse
> it and put it up by the antennas.  This will "combine" the two antennas
> and send the signals down one coax to the TV.
>
> Scott N0EDV
============================================
Have a Time Warner labeled cable TV splitter here: 5 -1000 MHz with
F-type female connectors.  Attenuation 3.5 dB applicable to each channel
```

Ex US fleamarket

Frank   GM0CSZ / KN6WH

```
From -7060403057892566987
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
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Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
newsfeed.straub-nv.de!news.motzarella.org!motzarella.org!news.motzarella.org!not-
for-mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Date: Mon, 23 Feb 2009 13:12:29 +0000
Organization: A noiseless patient Spider
Lines: 30
Message-ID: <rlQAJ4B9CqoJFw5Z@g3ohx.demon.co.uk>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <gnsn2a02c53@news2.newsguy.com> <lmlol.19722$g63.6848@newsfe24.iad>
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Xref: g2news2.google.com rec.radio.amateur.antenna:10089
rec.radio.amateur.homebrew:2197 rec.radio.amateur.misc:4068

In message <G42dnR3iQYKeCT_UnZ2dnUVZ8vCdnZ2d@pipex.net>, Highland Ham
<rfburns@allbands.net> writes
>
>>> How do I couple two antennae onto one cable?
>>>
>>> Thanks.
>>>
>> TV splitter.  Any place such as Best Buy, Wal Mart, Radio Shack
>>should  have them.  Normally used to split one antenna to two TVs.
>>Just reverse  it and put it up by the antennas.  This will "combine"
>>the two antennas  and send the signals down one coax to the TV.
>>  Scott N0EDV
>=============================================
```

>Have a Time Warner labeled cable TV splitter here: 5 -1000 MHz with
>F-type female connectors. Attenuation 3.5 dB applicable to each
>channel Ex US fleamarket
>
>Frank   GM0CSZ / KN6WH

If it had been for analogue, I would have said no, no, no, no, no, no - never EVER use a wideband splitter to combiner two antenna feeds. When you are looking at one transmitter, you will be picking any reflections coming from the direction of the other. However, as this is digital, you may get away with it (just like bending the antenna to obtain two lobes).

However, you are far, far better off with a separate feeder and a 2-way A/B switch. They are only a few dollars each.
--
Ian

```
From -293770954358084431
X-Google-Thread: fc2a5,28281fe14addbe1a,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!33g2000yqm.googlegroups.com!not-for-
mail
From: thepeddler09@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: lot of antique transistor radios-KOYO PARROT-SONY-AIRWAY
     DELUXE-WESTINGHOUSE-MOTOROLA-GE-RCA-more
Date: Mon, 23 Feb 2009 05:35:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 21
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Content-Transfer-Encoding: 7bit
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NNTP-Posting-Date: Mon, 23 Feb 2009 13:35:28 +0000 (UTC)
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x
     4.90),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2198
```

estate sale of a radio collector-clearance !

http://shop.ebay.com/merchant/66-catalina_W0QQ_nkwZQQ_armrsZ1QQ_fromZQQ_mdoZ

VINTAGE GE TRANSISTOR RADIO-LARGE BATTERY-TESTED/WORKS- 0 Bids

$24.99 6d 13h 56m
 GE TRANSISTOR RADIO-VINTAGE P-1728, TESTED & IT WORKS-$ 0 Bids $9.98
6d 13h 56m
 KOYO PARROT KR-4S1 SUBMINIATURE TUBE RADIO-WHITE-RARE!! 0 Bids
$199.88
$400.00 6d 13h 56m
 RCA MODEL RZG 101J VINTAGE TRANSISTOR RADIO-COMPLETE-$ 0 Bids $9.98
6d 13h 56m
 WESTINGHOUSE MOD.H-938P6GP WHITE TRANSISTOR RADIO-$$$$$ 0 Bids $9.98
6d 13h 56m
 MOTOROLA X23E VINTAGE TRANSISTOR RADIO-complete-$$$ 0 Bids $9.98 6d
13h 56m
 VINTAGE EXPO '70 TRANSISTOR RADIO-YELLOW-COMPLETE-$$$$$ 0 Bids
$24.99 6d 13h 56m
 AIRWAY DELUXE TRANSISTOR RADIO MODEL YT-161 working !!! 0 Bids
$24.99 6d 13h 56m

From 2902791513165638417
X-Google-Thread: fc2a5,a5de35fe1e1c59c3,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e3g2000vbe.googlegroups.com!not-for-mail
From: Old Mac User <chendrixstats@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: "Essentials of Radio" text book
Date: Mon, 23 Feb 2009 05:50:43 -0800 (PST)
Organization: http://groups.google.com
Lines: 32
Message-ID: <66b8abdb-ba02-4248-9722-0c853fd88fb6@e3g2000vbe.googlegroups.com>
NNTP-Posting-Host: 71.164.54.62
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1235397043 2399 127.0.0.1 (23 Feb 2009 13:50:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 23 Feb 2009 13:50:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000vbe.googlegroups.com; posting-host=71.164.54.62;
     posting-account=sIHvzQoAAAAAbQfprR9TA-TBGGA1ySG5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.6)
     Gecko/2009011913 Firefox/3.0.6,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1902

"Essentials of Radio" by Morris Slurzberg and William Osterheld.
McGraw-Hill Books; 1948; Hardback; 805 pages

Introduction to radio
Circuit analysis
Simple receiving circuits
Vacuum tubes

Detector circuits
Tuning circuits
RF amplified circuits
Audio-frequency voltage amplified circuits
Power amplified circuits
Vacuum-tube oscillator circuits
Power supply circuits
Audio units
Transmitting circuits
Receiving circuits
Test equipment
and 18 sections in the appendix.

This was written and published when books were made with quality.
It's in excellent condition. No writing inside other than my name
stamped inside the cover.

Realize this was written in the "vacuum tube era".

$25 + shipping.
Shipping will be "media mail" via U.S. Post Office.
That's the cheapest rate for books.

Please use Reply to Author when responding.
That will get the fastest attention.

From 7163536090787864963
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
feeder.erje.net!newsfeed.xs4all.nl!newsfeed6.news.xs4all.nl!newsgate.cistron.nl!
newsgate.news.xs4all.nl!xs4all!post.news.xs4all.nl!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
From: Rob <nomail@example.com>
Subject: Re: Hack a DTV antenna for dual directions?
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
<gnsn2a02c53@news2.newsguy.com> <lmlol.19722$g63.6848@newsfe24.iad>
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<G42dnR3iQYKeCT_UnZ2dnUVZ8vCdnZ2d@pipex.net>
<rlQAJ4B9CqoJFw5Z@g3ohx.demon.co.uk>
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Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
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Message-ID: <slrngq5ja2.hv.nomail@xs7.xs4all.nl>
Date: 23 Feb 2009 16:22:26 GMT
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X-Trace: 1235406146 news.xs4all.nl 194 [::ffff:194.109.21.7]:58781
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.antenna:8315
rec.radio.amateur.homebrew:1903 rec.radio.amateur.misc:3815
```

Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:

> However, you are far, far better off with a separate feeder and a 2-way
> A/B switch. They are only a few dollars each.

And then, what? Walk to the switch to throw it from A to B or vice-versa
every time you zap to another channel?
That does not sound like "better off" to me...

```
From 1174568393722687003
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
news.astraweb.com!border5.newsrouter.astraweb.com!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
flpi149.ffdc.sbc.com.POSTED!ac3deb13!not-for-mail
From: Esther & Fester Bestertester <not@me.really>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C5C813DA0154E27FB01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Hack a DTV antenna for dual directions?
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Reply-To: not@me.really
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
<gnsn2a02c53@news2.newsguy.com> <lmlol.19722$g63.6848@newsfe24.iad>
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11:56:10 EST)
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Organization: at&t http://my.att.net/
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Date: Mon, 23 Feb 2009 08:50:34 -0800
Xref: g2news2.google.com rec.radio.amateur.antenna:10094
```

rec.radio.amateur.homebrew:2201 rec.radio.amateur.misc:4071

> However, you are far, far better off with a separate feeder and a 2-way
> A/B switch. They are only a few dollars each.

Better in the sense of being there to throw the switch, maybe. But I've got a programmable-event DTV converter box which allows me to record shows automatically. The antenna set-up needs to be automated.

Thanks.

From -6270266807460464788
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!feeder.erje.net!news.motzarella.org!motzarella.org!news.motzarella.org!not-for-mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Date: Mon, 23 Feb 2009 17:15:51 +0000
Organization: A noiseless patient Spider
Lines: 14
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<0001HW.C5C7B170013DD1A8B01AD9AF@news.sf.sbcglobal.net>
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<rlQAJ4B9CqoJFw5Z@g3ohx.demon.co.uk> <slrngq5ja2.hv.nomail@xs7.xs4all.nl>
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Xref: g2news2.google.com rec.radio.amateur.antenna:10095
rec.radio.amateur.homebrew:2202 rec.radio.amateur.misc:4072

In message <slrngq5ja2.hv.nomail@xs7.xs4all.nl>, Rob
<nomail@example.com> writes
>Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:

>> However, you are far, far better off with a separate feeder and a 2-way
>> A/B switch. They are only a few dollars each.
>
>And then, what? Walk to the switch to throw it from A to B or vice-versa
>every time you zap to another channel?
>That does not sound like "better off" to me...

As I'm sure you know, Sunshine, life's tough at times. 'Ye canna change
the laws of physics'.
--
Ian

From 7074136391815257874
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!news-in-01.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-nntp-09.dc1.easynews.com.POSTED!not-for-mail
From: Richard Clark <kb7qhc@comcast.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Message-ID: <aio5q411vqju5khalr7tf402af6thmdnr4@4ax.com>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
<2fu3q49rtg1qltrvtia6g76nu0l6jk1ipi@4ax.com> <xD3mwNSjlooJFw5u@g3ohx.demon.co.uk>
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MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 16
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Mon, 23 Feb 2009 09:54:05 -0800
Xref: g2news2.google.com rec.radio.amateur.antenna:10096
rec.radio.amateur.homebrew:2203 rec.radio.amateur.misc:4073

On Mon, 23 Feb 2009 11:32:51 +0000, Ian Jackson
<ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:

>>From my location the 2 largest DTV transmitter clusters are approximately 60
>>degrees apart.
...
>>Bend the angle bars and screen 60 degrees along the length of the mast
>>so that each side points towards the separate transmitter clusters.
...
> the bend should be 60 degrees - or maybe something a bit
>more would be better?

?

73's
Richard Clark, KB7QHC

From -5996128405839676384
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 23 Feb 2009 13:08:04 -0600
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
<G42dnR3iQYKeCT_UnZ2dnUVZ8vCdnZ2d@pipex.net> <rlQAJ4B9CqoJFw5Z@g3ohx.demon.co.uk>
<0001HW.C5C813DA0154E27FB01AD9AF@news.sf.sbcglobal.net>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Mon, 23 Feb 2009 11:04:16 -0800
Message-ID: <gi8b76-90f.ln1@radagast.org>
Lines: 26
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u3fCrPA1Ws35R6G8nSOvKa/qvdrkYWs3/CnkZZ29PdbfdBCe9y4xMI5MyfsExg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:8320
rec.radio.amateur.homebrew:1907 rec.radio.amateur.misc:3819

>Better in the sense of being there to throw the switch, maybe. But I've got a
>programmable-event DTV converter box which allows me to record shows
>automatically. The antenna set-up needs to be automated.

Some DTV converter boxes support the CEA-909 or CEA-909A "smart antenna" interface, which allow a command to be sent to the antenna to change the antenna's behavior (directionality, frequency setting, etc.). A good DTV converter will identify the best antenna setting for each channel (I imagine this takes place during the initial scan-for-channels process) and will switch the antenna system each time it tunes to a new channel. In CEA-909A, the signalling can be

done over the same coax cable which carries the antenna signal; the
older CEA-909 requires a separate control cable.

Not all converter boxes support this feature, and of course you need
to have an antenna which has Smart Antenna support.

Unfortunately, the Smart Antenna specs are not freely available... a
hardcopy or download version costs somewhere in the neighborhood of
$70. I don't know if anyone has reverse-engineered the data format.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From -7056509471940158784
X-Google-Thread: fc2a5,7625634cca088955
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
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nntp.posted.plusnet!news.posted.plusnet.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 23 Feb 2009 13:15:01 -0600
From: "John" <jrw[no_spam_today_thank_you]@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <5MSdnThvLMVIeRTUnZ2dnUVZ8u6dnZ2d@posted.plusnet>
<882dnVdFLMcf_j3UnZ2dnUVZ8uGdnZ2d@posted.plusnet>
Subject: Re: WIA 'Amateur Radio' 10m FM Tcvr
Date: Mon, 23 Feb 2009 19:18:08 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <IMednQBqwcEoaD_UnZ2dnUVZ8trinZ2d@posted.plusnet>
Lines: 7
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X-Trace: sv3-sBfdgpTaF37H6crp1Aef37LWagzLcJ928KOG4p0elUiJdw/
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WJiaJqQnY6FN
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1908

I now have it thanks.

JOHN M5AML

www.wells10000.plus.com/m5aml

```
From 9164511039259966789
X-Google-Thread: fcc6e,ae3166f19c9219c1
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X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
news.motzarella.org!motzarella.org!news.motzarella.org!not-for-mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Date: Mon, 23 Feb 2009 19:16:32 +0000
Organization: A noiseless patient Spider
Lines: 34
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qRQtohG7L4NcO0AfZsGGye2dOhA==
X-Complaints-To: Please send complaints to abuse@motzarella.org with full headers
NNTP-Posting-Date: Mon, 23 Feb 2009 19:16:47 +0000 (UTC)
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Cancel-Lock: sha1:4bZoUGtZedTyrqwQ5C+Al8Zr3rk=
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Xref: g2news1.google.com rec.radio.amateur.antenna:8321
rec.radio.amateur.homebrew:1909 rec.radio.amateur.misc:3820

In message <aio5q411vqju5khalr7tf402af6thmdnr4@4ax.com>, Richard Clark
<kb7qhc@comcast.net> writes
>On Mon, 23 Feb 2009 11:32:51 +0000, Ian Jackson
><ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>
>>>From my location the 2 largest DTV transmitter clusters are approximately 60
>>>degrees apart.
>...
>>>Bend the angle bars and screen 60 degrees along the length of the mast
>>>so that each side points towards the separate transmitter clusters.
>...
>> the bend should be 60 degrees - or maybe something a bit
>>more would be better?
>
>?
>
```

!!!

Well, if you put a smallish bend in the antenna of (say) 10 degrees, you will still have one lobe, although it wider and the gain will be lower. Only when you increase the bend to (maybe) 20 degrees will you start to get two separate lobes.

I'm somewhat guessing, but I reckon that the angle between the two lobes will continue to be less than the angle of bend until the bend is considerable - and possibly more than the 60 degrees between the transmitters. Eventually, the angle between the lobes will 'catch up' with the angle of the bend - but maybe only when the bend is a full 180 degrees.

So, for the two lobes really to be 60 degrees apart, maybe the bend will have to be (say) 65 degrees? What do you reckon?

--

Ian

From -3930437493323765210
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news2.glorb.com!news-in-01.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-nntp-06.dc1.easynews.com.POSTED!not-for-mail
From: Richard Clark <kb7qhc@comcast.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Message-ID: <ed06q4pegvmvk4u6kkr8ukik0jojocs0q2@4ax.com>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <2fu3q49rtg1qltrvtia6g76nu0l6jk1ipi@4ax.com> <xD3mwNSjlooJFw5u@g3ohx.demon.co.uk> <aio5q411vqju5khalr7tf402af6thmdnr4@4ax.com> <Vw7f8qDQYvoJFwuM@g3ohx.demon.co.uk>
X-Newsreader: Forte Agent 5.00/32.1171
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 21
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Mon, 23 Feb 2009 12:11:00 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:8322 rec.radio.amateur.homebrew:1910 rec.radio.amateur.misc:3821

On Mon, 23 Feb 2009 19:16:32 +0000, Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:

>I'm somewhat guessing, but I reckon that the angle between the two lobes

>will continue to be less than the angle of bend until the bend is
>considerable - and possibly more than the 60 degrees between the
>transmitters. Eventually, the angle between the lobes will 'catch up'
>with the angle of the bend - but maybe only when the bend is a full 180
>degrees.
>
>So, for the two lobes really to be 60 degrees apart, maybe the bend will
>have to be (say) 65 degrees? What do you reckon?

Hi Ian,

That sounds more reasonable, but I would suspect that when the hammer
is swung, that 5 degree slop will par for the course. It will take
more sophistication to peak both clusters independantly to prove your
point, but it could well be.

73's
Richard Clark, KB7QHC

From 8147698982640647442
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!newsfeed.straub-nv.de!news.motzarella.org!motzarella.org!news.motzarella.org!not-for-mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Date: Mon, 23 Feb 2009 20:33:02 +0000
Organization: A noiseless patient Spider
Lines: 37
Message-ID: <kLgjCwQ+fwoJFw74@g3ohx.demon.co.uk>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <2fu3q49rtg1qltrvtia6g76nu0l6jk1ipi@4ax.com>
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WYED+652rvE2epWJTpDfJggrHpNvjOedSAUZ0ap1IbAOT0vSkYkkWlVJ3SuViKugBuljIzPiAX9g==
X-Complaints-To: Please send complaints to abuse@motzarella.org with full headers
NNTP-Posting-Date: Mon, 23 Feb 2009 20:52:03 +0000 (UTC)
X-Auth-Sender: U2FsdGVkX1+leBzycrqmf+8RBl5QVE6ybm31EWf9suh08NgaYrxJww==
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Xref: g2news1.google.com rec.radio.amateur.antenna:8323
rec.radio.amateur.homebrew:1911 rec.radio.amateur.misc:3822

In message <ed06q4pegvmvk4u6kkr8ukik0jojocs0q2@4ax.com>, Richard Clark
<kb7qhc@comcast.net> writes
>On Mon, 23 Feb 2009 19:16:32 +0000, Ian Jackson
><ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>>I'm somewhat guessing, but I reckon that the angle between the two lobes
>>will continue to be less than the angle of bend until the bend is
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>>degrees.
>>
>>So, for the two lobes really to be 60 degrees apart, maybe the bend will
>>have to be (say) 65 degrees? What do you reckon?
>
>Hi Ian,
>
>That sounds more reasonable, but I would suspect that when the hammer
>is swung, that 5 degree slop will par for the course. It will take
>more sophistication to peak both clusters independantly to prove your
>point, but it could well be.
>
>73's
>Richard Clark, KB7QHC

I thought I wasn't talking total rubbish (like I usually do).

Unfortunately, I've just spotted a problem with bending the antenna. If
you cut partially through the two angle bars to weaken them, and then
bend them and the reflector backwards by 60 degrees, the 'feeder' which
joins the two halves of the antenna will have to be stretched - and you
won't be able to do that. You would have to replace it.

Nah... It would be silly to ruin a handsome antenna. Far better to put
up a separate antenna and feeder, and use some sort of A/B switch at the
TV end.
--
Ian

From -4857650357871497227
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!e24g2000vbe.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Subject: Re: Hack a DTV antenna for dual directions?
Date: Mon, 23 Feb 2009 12:59:13 -0800 (PST)
Organization: http://groups.google.com
Lines: 36
Message-ID: <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
NNTP-Posting-Host: 76.232.148.162
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1235422753 17264 127.0.0.1 (23 Feb 2009 20:59:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 23 Feb 2009 20:59:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e24g2000vbe.googlegroups.com; posting-host=76.232.148.162;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.6)
     Gecko/2009011913 Firefox/3.0.6 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:10102
rec.radio.amateur.homebrew:2209 rec.radio.amateur.misc:4078

On Feb 22, 6:00=A0pm, Esther & Fester Bestertester <n...@me.really>
wrote:
> I've got this antenna:
>
> <http://www.hdtvprimer.com/ANTENNAS/cm4228.html>
>
> From my location the 2 largest DTV transmitter clusters are approximately=
 60
> degrees apart.
>
> How effective would it be to modify this antenna such that each of the 2 =
bays
> pointed to each transmitter cluster?
>
> Yes, I know it's probably best to buy 2 antennae and couple them, but fun=
ds
> are really scarce and I've got time on my hands.
>
> 1. Would it work?
> 2. What are the practical down-sides (engineering blasphemies aside)?
>
> I know this is not an elegant solution, so if your only comment is to say
> this, please resist.
>
> Thanks.

Hey OM
I guess nobody here is a youtuber? I seen on youtube a guy has a 4 bay
bow tie, shows how to make one for chump change. Like 5 steel wire
coat hangers and a 2 ft 1X2 and some screws, and a balun transformer.
I saw it on youtube he makes a 4 bay bow tie antenna in under 5

minutes. It doesn't have a screen reflector, it's more like
bidirectional, well almost.

73 OM
de n8zu

From -4796082971388469442
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe08.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
<gnsn2a02c53@news2.newsguy.com> <lmlol.19722$g63.6848@newsfe24.iad>
<0001HW.C5C7B170013DD1A8B01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Hack a DTV antenna for dual directions?
Lines: 29
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <S6Eol.23441$pX4.21842@newsfe08.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe08.iad 1235422770 68.229.77.6 (Mon, 23 Feb 2009 20:59:30 UTC)
NNTP-Posting-Date: Mon, 23 Feb 2009 20:59:30 UTC
Organization: Cox
Date: Mon, 23 Feb 2009 15:59:25 -0500
Xref: g2news1.google.com rec.radio.amateur.antenna:8325
rec.radio.amateur.homebrew:1913 rec.radio.amateur.misc:3824

"Esther & Fester Bestertester" <not@me.really> wrote in message
news:0001HW.C5C7B170013DD1A8B01AD9AF@news.sf.sbcglobal.net...
>> http://www.wa5vjb.com/references/CheapYagi4HDTV.pdf
>>
>> Well, if funds are tight, and you have time, build two of
>> these antennas designed by Kent Britain. They'll work
>> better than the antenna you cited (for UHF), and also
>> have the benefit of being 75-ohm impedance.
>>
>> Pete k1zjh
>
> If I DIY, I'll need only one; I'll keep the 4228 and couple it with the
> DIY.

>
> How do I couple two antennae onto one cable?
>
> Thanks.
>

You can't; one is 75 ohms and it looks like the one you have
is 300 ohms. You'd need a balun on the 300-ohm bowtie antenna to
make it 75 ohms, and then use a TV combiner/splitter to
combine the two antenna feedlines down to one single
feedline.

Pete

```
From 8779396530199495513
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!newshub.sdsu.edu!
flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!flpi149.ffdc.sbc.com.POSTED!ac3deb13!not-for-mail
From: SparkyGuy <sparkyguy@mumcrank.ck>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C5C867FD01689AAAB01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Hack a DTV antenna for dual directions?
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-
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Lines: 7
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X-Trace: flpi149.ffdc.sbc.com 1235429710 ST000 99.189.171.35 (Mon, 23 Feb 2009
17:55:10 EST)
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Organization: at&t http://my.att.net/
X-UserInfo1:
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Date: Mon, 23 Feb 2009 14:49:33 -0800
Xref: g2news2.google.com rec.radio.amateur.antenna:10104
rec.radio.amateur.homebrew:2211 rec.radio.amateur.misc:4080
```

> I guess nobody here is a youtuber?

This is my favorite ;-) (note that that's a wink emoti)

<http://www.youtube.com/watch?v=TRS4GMGJr7M>

From 5032472569252516956
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!flpi149.ffdc.sbc.com.POSTED!ac3deb13!not-for-mail
From: Esther & Fester Bestertester <not@me.really>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
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Subject: Re: Hack a DTV antenna for dual directions?
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Reply-To: not@me.really
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
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Organization: at&t http://my.att.net/
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Date: Mon, 23 Feb 2009 14:55:54 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:8327
rec.radio.amateur.homebrew:1915 rec.radio.amateur.misc:3826

> I guess nobody here is a youtuber? I seen on youtube a guy has a 4 bay
> bow tie, shows how to make one for chump change. Like 5 steel wire
> coat hangers and a 2 ft 1X2 and some screws, and a balun transformer.
> I saw it on youtube he makes a 4 bay bow tie antenna in under 5
> minutes. It doesn't have a screen reflector, it's more like
> bidirectional, well almost.

I don't see that one, but this one has several possible configurations, one of which includes multiple bays aimed in different directions:

<http://www.youtube.com/watch?v=Y0m6AfR-9As&NR=1>

Thanks.

From -5300906009363515210
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
news.motzarella.org!motzarella.org!news.motzarella.org!not-for-mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Date: Mon, 23 Feb 2009 23:17:51 +0000
Organization: A noiseless patient Spider
Lines: 24
Message-ID: <aXIsFepf6yoJFw8J@g3ohx.demon.co.uk>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
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X-Complaints-To: Please send complaints to abuse@motzarella.org with full headers
NNTP-Posting-Date: Mon, 23 Feb 2009 23:20:32 +0000 (UTC)
X-Auth-Sender: U2FsdGVkX1+TKz+gcsIzdHAY6T03T9KxRNmwYBuTdJoBbG4+vSGFMQ==
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Xref: g2news2.google.com rec.radio.amateur.antenna:10106
rec.radio.amateur.homebrew:2213 rec.radio.amateur.misc:4082

In message <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>,
Esther & Fester Bestertester <not@me.really> writes
>> I guess nobody here is a youtuber? I seen on youtube a guy has a 4 bay
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>> I saw it on youtube he makes a 4 bay bow tie antenna in under 5
>> minutes. It doesn't have a screen reflector, it's more like
>> bidirectional, well almost.
>
>I don't see that one, but this one has several possible configurations, one
>of which includes multiple bays aimed in different directions:
>
><http://www.youtube.com/watch?v=Y0m6AfR-9As&NR=1>
>
Umm .....

I've skipped through the video, so maybe I've missed one or two key
facts. However:
1. Are there three identical antenna, each pointing 120 degrees apart,
each with its own feeder, or
Are all three combined to make an approximately omnidirectional antenna?
2. The reflector seems to be far too close to the active elements. I
would have expected it to be a quarter wavelength away.
--
Ian

```
From -1831971893003028088
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
flpi149.ffdc.sbc.com.POSTED!ac3deb13!not-for-mail
From: SparkyGuy <sparkyguy@mumcrank.ck>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C5C871D9016AEA4AB01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Hack a DTV antenna for dual directions?
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-
ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
<aXIsFepf6yoJFw8J@g3ohx.demon.co.uk>
Lines: 5
NNTP-Posting-Host: 99.189.171.35
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi149.ffdc.sbc.com 1235432234 ST000 99.189.171.35 (Mon, 23 Feb 2009
18:37:14 EST)
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Organization: at&t http://my.att.net/
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Date: Mon, 23 Feb 2009 15:31:37 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:8329
rec.radio.amateur.homebrew:1917 rec.radio.amateur.misc:3828
```

> 2. The reflector seems to be far too close to the active elements. I
> would have expected it to be a quarter wavelength away.

It's "2x4" separation... ;-)

```
From -1329482991766580539
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news2.glorb.com!
feeder.erje.net!news.motzarella.org!motzarella.org!reader.motzarella.org!not-for-
mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Date: Mon, 23 Feb 2009 23:45:44 +0000
Organization: A noiseless patient Spider
Lines: 10
Message-ID: <gnliZNsoUzoJFwpP@g3ohx.demon.co.uk>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
 <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
 <aXIsFepf6yoJFw8J@g3ohx.demon.co.uk>
 <0001HW.C5C871D9016AEA4AB01AD9AF@news.sf.sbcglobal.net>
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.eternal-september.org
U2FsdGVkX1+hSvq1kDYlIZWfnPxDK3Rk6wNtSzkTzA5jjrCPVO0xzj6cen82HMvXdoGKys9cSJM/
iEGTNiqhymmBqybwZApwKyaRxd2pF0e9nqTneTpp2TFbVhMsJuJFkTUfZ26ORhfJbpy1jc7VQw==
X-Complaints-To: Please send complaints to abuse@motzarella.org with full headers
NNTP-Posting-Date: Mon, 23 Feb 2009 23:45:53 +0000 (UTC)
X-Auth-Sender: U2FsdGVkX1+b7fiS+rz/WHUKYrUUV+bFv379acSVCKxpZt9wDp6pfg==
Cancel-Lock: sha1:PjczVmAiiaAr7pbuMsg8NdLrpn4=
User-Agent: Turnpike/6.06-S (<XdRqW6rfKPDm4PCjnROoeAl1bN>)
Xref: g2news1.google.com rec.radio.amateur.antenna:8330
rec.radio.amateur.homebrew:1918 rec.radio.amateur.misc:3829

In message <0001HW.C5C871D9016AEA4AB01AD9AF@news.sf.sbcglobal.net>,
SparkyGuy <sparkyguy@mumcrank.ck> writes
>> 2. The reflector seems to be far too close to the active elements. I
>> would have expected it to be a quarter wavelength away.
>
>It's "2x4" separation... ;-)
>
OK. What IS "2x4" separation?
--
Ian


From -1486111382541979072
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
```

```
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!newsfeed.stanford.edu!
newshub.sdsu.edu!flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!
prodigy.com!flpi107.ffdc.sbc.com!flpi149.ffdc.sbc.com.POSTED!ac3deb13!not-for-mail
From: SparkyGuy <sparkyguy@mumcrank.ck>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C5C885DA016F9A84B04379AF@news.sf.sbcglobal.net>
Subject: Re: Hack a DTV antenna for dual directions?
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-
ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
<aXIsFepf6yoJFw8J@g3ohx.demon.co.uk>
<0001HW.C5C871D9016AEA4AB01AD9AF@news.sf.sbcglobal.net>
<gnliZNsoUzoJFwpP@g3ohx.demon.co.uk>
Lines: 16
NNTP-Posting-Host: 99.189.171.35
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi149.ffdc.sbc.com 1235437355 ST000 99.189.171.35 (Mon, 23 Feb 2009
20:02:35 EST)
NNTP-Posting-Date: Mon, 23 Feb 2009 20:02:35 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
Q[R_PJSCO@TARWDX]RKXOFTBTR\B@GXLN@GZ_GYO^JWTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Mon, 23 Feb 2009 16:56:58 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:8331
rec.radio.amateur.homebrew:1919 rec.radio.amateur.misc:3830
```

>> It's "2x4" separation... ;-)

> OK. What IS "2x4" separation?

Sorry, that was a little American-centric comment (must remember: Imperial Measurement System is not universal...)

The most basic standard lumber used in construction in N. America is the 2x4 stud (2 inches x 4 inches cross-section, available in 8, 10, 12, 16, and (I think) 20 foot lengths).

This is what the guy building the antenna is using as the structural wood members.

Dave

```
From 7220939177510048392
X-Google-Thread: fc2a5,1e65b0ccc004e66d,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!13g2000yql.googlegroups.com!not-for-
mail
From: bulegoge@columbus.rr.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Smith Chart Tutorial
Date: Mon, 23 Feb 2009 17:09:19 -0800 (PST)
Organization: http://groups.google.com
Lines: 25
Message-ID: <805d5ff2-47da-44b1-a987-151dc2ffef55@13g2000yql.googlegroups.com>
NNTP-Posting-Host: 76.181.242.227
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1235437759 353 127.0.0.1 (24 Feb 2009 01:09:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 24 Feb 2009 01:09:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 13g2000yql.googlegroups.com; posting-host=76.181.242.227;
     posting-account=PCksUwoAAAAsb8KSbS36lmWOqee5wTyG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1920
```

Hi,

I have created a Smith Chart Tutorial located here:

http://www.fourier-series.com/rf-concepts/smithchart.html

It is comprised of flash programs with embedded audio. It allows you to learn the smith chart through the interactive nature of the flash program.

I The tutorial explains the smith chart, allows for capacitive/inductive matching and introduces how a transmision line affects the reflection coefficient and how to use transmission line stubs as matching elements.

Good Luck with this

Brent

```
From -4606779743222905188
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.posted.easystreetonline!news.posted.easystreetonline.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 23 Feb 2009 19:49:33 -0600
Date: Mon, 23 Feb 2009 17:49:31 -0800
From: Roy Lewallen <w7el@eznec.com>
Organization: EZNEC Antenna Software
User-Agent: Thunderbird 2.0.0.19 (Windows/20081209)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-
ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
<aXIsFepf6yoJFw8J@g3ohx.demon.co.uk>
<0001HW.C5C871D9016AEA4AB01AD9AF@news.sf.sbcglobal.net>
<gnliZNsoUzoJFwpP@g3ohx.demon.co.uk>
<0001HW.C5C885DA016F9A84B04379AF@news.sf.sbcglobal.net>
In-Reply-To: <0001HW.C5C885DA016F9A84B04379AF@news.sf.sbcglobal.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <DrOdnSvuwNuwzz7UnZ2dnUVZ_vGdnZ2d@posted.easystreetonline>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 208.161.106.19
X-Trace: sv3-VBXeviCpjNzSqHAwfHm1tKIe8eoTz3tFa/T/
98Bng9ttRSEUeG+stz2sV4RYTM0wtIZtaur75YdpRps!
dsxSKWWA0ozgpb2TC0dwQdHCCbEYsC+4rPAmCjhXqb2hIVAUN7FLK6iTMyGbXQc88qo/hV9XvFnG!N/
n2CpgTtYJSeBs+LLJI3S9HSAgB5vHttvGL
X-Complaints-To: abuse@easystreet.com
X-DMCA-Complaints-To: abuse@easystreet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:8333
rec.radio.amateur.homebrew:1921 rec.radio.amateur.misc:3831
```

SparkyGuy wrote:

> . . .
> The most basic standard lumber used in construction in N. America is the 2x4
> stud (2 inches x 4 inches cross-section, available in 8, 10, 12, 16, and (I
> think) 20 foot lengths). . .

Actually, dimensional lumber has shrunk over the years just like candy bars and dollars. Only in very old houses will you find 2 X 4s that are 2" X 4". I'm getting pretty geezerly, and it was before my day -- they were down to 1-5/8" X 3-5/8" at the earliest I can remember. Now a "two-by-four" has shrunk to 1-1/2" X 3-1/2". When they get down to 2 X 4 cm, we can finally go metric without having to do any conversions. Maybe when they get down to 1/4 X 1/2 inch they'll get revalued like a peso?

Roy Lewallen, W7EL

```
From 673324661084473090
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!newshub.sdsu.edu!
feeder.erje.net!news.motzarella.org!motzarella.org!news.motzarella.org!not-for-
mail
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Date: Tue, 24 Feb 2009 08:05:05 +0000
Organization: A noiseless patient Spider
Lines: 14
Message-ID: <Y1jM9cAxo6oJFw$W@g3ohx.demon.co.uk>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
 <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
 <aXIsFepf6yoJFw8J@g3ohx.demon.co.uk>
 <0001HW.C5C871D9016AEA4AB01AD9AF@news.sf.sbcglobal.net>
 <gnliZNsoUzoJFwpP@g3ohx.demon.co.uk>
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.eternal-september.org U2FsdGVkX1+Oto+3rYsJxcSC3I2DgGaCLwbIoo/
Gz0pWu2ImTfQjz6AozNsjYWFVV+wlzjCS7PrUSa6bctWhB1Hm/MirjkVn5wSIPJu1/
B4F6dzidj50WaVP1VxgsTB+j7VDsqyRjsPYrc6x7YUB4A==
X-Complaints-To: Please send complaints to abuse@motzarella.org with full headers
NNTP-Posting-Date: Tue, 24 Feb 2009 08:10:22 +0000 (UTC)
X-Auth-Sender: U2FsdGVkX19bv/Cfx1sB8fTHOZCFG0KPCv4n/wzJWGySXLTq392fXA==
Cancel-Lock: sha1:yZ1LgNnxfCLmO5JiVyp4NTDJtYU=
User-Agent: Turnpike/6.06-S (<cvfqWyZwKPDdiNCjcaMoestOox>)
Xref: g2news1.google.com rec.radio.amateur.antenna:8337
rec.radio.amateur.homebrew:1922 rec.radio.amateur.misc:3832
```

In message <gnliZNsoUzoJFwpP@g3ohx.demon.co.uk>, Ian Jackson
<ianREMOVETHISjackson@g3ohx.demon.co.uk> writes

>In message <0001HW.C5C871D9016AEA4AB01AD9AF@news.sf.sbcglobal.net>,
>SparkyGuy <sparkyguy@mumcrank.ck> writes
>>> 2. The reflector seems to be far too close to the active elements. I
>>> would have expected it to be a quarter wavelength away.

```
>>
>>It's "2x4" separation... ;-)
>>
>OK. What IS "2x4" separation?

OK. Too late last night to 'twig'! But don't you mean "4x2"?
--
Ian


From -4706423702737251548
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!newshub.sdsu.edu!
flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!flpi149.ffdc.sbc.com.POSTED!ac3deb13!not-for-mail
From: SparkyGuy <sparkyguy@mumcrank.ck>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C5C8FB10018B1304B01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Hack a DTV antenna for dual directions?
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-
ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
<aXIsFepf6yoJFw8J@g3ohx.demon.co.uk>
<0001HW.C5C871D9016AEA4AB01AD9AF@news.sf.sbcglobal.net>
<gnliZNsoUzoJFwpP@g3ohx.demon.co.uk> <Y1jM9cAxo6oJFw$W@g3ohx.demon.co.uk>
Lines: 6
NNTP-Posting-Host: 99.189.171.35
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi149.ffdc.sbc.com 1235467361 ST000 99.189.171.35 (Tue, 24 Feb 2009
04:22:41 EST)
NNTP-Posting-Date: Tue, 24 Feb 2009 04:22:41 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
Q[RGGZCDVZTUCWPXNCOF_W\@PJ_^PBQLGPQRJWQHBATBTSUBYFWEAE[YJLYPIWKHTFCMZKVMB^[Z^DOBRV
VMOSPFHNSYXVDIE@X\BUC@GTSX@DL^GKFFHQCCE\G[JJBMYDYIJCZM@AY]GNGPJD]YNNW\GSX^GSCKHA[]
@CCB\[@LATPD\L@J\\PF]VR[QPJN
Date: Tue, 24 Feb 2009 01:17:04 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:8338
rec.radio.amateur.homebrew:1923 rec.radio.amateur.misc:3833

> OK. Too late last night to 'twig'! But don't you mean "4x2"?

"Po-tay-to", "po-tah-to".

Actually I mean 1-1/2 x 3-1/2. ;-)
From 230086291380038565
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
feeder.erje.net!news.k-dsl.de!aioe.org!ianREMOVETHISjackson
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Date: Tue, 24 Feb 2009 09:32:22 +0000
Organization: Aioe.org NNTP Server
Lines: 12
Message-ID: <FG27hhIm67oJFwvc@g3ohx.demon.co.uk>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
 <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
 <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
 <aXIsFepf6yoJFw8J@g3ohx.demon.co.uk>
 <0001HW.C5C871D9016AEA4AB01AD9AF@news.sf.sbcglobal.net>
 <gnliZNsoUzoJFwpP@g3ohx.demon.co.uk> <Y1jM9cAxo6oJFw$W@g3ohx.demon.co.uk>
 <0001HW.C5C8FB10018B1304B01AD9AF@news.sf.sbcglobal.net>
NNTP-Posting-Host: 8ScIRg/PZPLSC4RDtCvRow.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Tue, 24 Feb 2009 09:34:16 +0000 (UTC)
X-Notice: Filtered by postfilter v. 0.7.7
Cancel-Lock: sha1:wCCfv9eWELM4YhPZSZ4/5J/gtvc=
User-Agent: Turnpike/6.06-S (<XlZqWaJbKPDUYPCjkREoeAFW6w>)
Xref: g2news2.google.com rec.radio.amateur.antenna:10118
rec.radio.amateur.homebrew:2221 rec.radio.amateur.misc:4089

In message <0001HW.C5C8FB10018B1304B01AD9AF@news.sf.sbcglobal.net>,
SparkyGuy <sparkyguy@mumcrank.ck> writes
>> OK. Too late last night to 'twig'! But don't you mean "4x2"?
>
>"Po-tay-to", "po-tah-to".
>
>Actually I mean 1-1/2 x 3-1/2. ;-)
>
Well, surely 1.5 inches is nowhere near enough? However, I suppose it
preserves that nice slimline look.
--
Ian


From -8425876429691498677
X-Google-Thread: fcc6e,ae3166f19c9219c1
```

```
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!f24g2000vbf.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Date: Tue, 24 Feb 2009 13:50:52 -0800 (PST)
Organization: http://groups.google.com
Lines: 24
Message-ID: <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
     <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
     <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
NNTP-Posting-Host: 76.232.148.162
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1235512253 18491 127.0.0.1 (24 Feb 2009 21:50:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 24 Feb 2009 21:50:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f24g2000vbf.googlegroups.com; posting-host=76.232.148.162;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.04506.648; .NET CLR 3.5.21022; .NET CLR
     3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:10125
rec.radio.amateur.homebrew:2222 rec.radio.amateur.misc:4091
```

On Feb 23, 5:55=A0pm, Esther & Fester Bestertester <n...@me.really>
wrote:
> > I guess nobody here is a youtuber? I seen on youtube a guy has a 4 bay
> > bow tie, shows how to make one for chump change. Like 5 steel wire
> > coat hangers and a 2 ft 1X2 and some screws, and a balun transformer.
> > I saw it on youtube he makes a 4 bay bow tie antenna in under 5
> > minutes. It doesn't have a screen reflector, it's more like
> > bidirectional, well almost.
>
> I don't see that one, but this one has several possible configurations, o=
ne
> of which includes multiple bays aimed in different directions:
>
> <http://www.youtube.com/watch?v=3DY0m6AfR-9As&NR=3D1>
>
> Thanks.

Hey OM
This is the youtube video I ment: http://www.youtube.com/watch?v=3DEWQhlmJT=

Mzw
6 coathangers and 7 minutes long.

73 OM
de n8zu

From 6107243140577857753
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!newshub.sdsu.edu!
flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!flpi149.ffdc.sbc.com.POSTED!ac3deb13!not-for-mail
From: DaveC <me@bogusdomain.net>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
Subject: Re: Hack a DTV antenna for dual directions?
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Reply-To: me@bogusdomain.net
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-
ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-
bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
Lines: 17
NNTP-Posting-Host: 99.189.171.35
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi149.ffdc.sbc.com 1235515650 ST000 99.189.171.35 (Tue, 24 Feb 2009
17:47:30 EST)
NNTP-Posting-Date: Tue, 24 Feb 2009 17:47:30 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
Q[R_PJSCO@TARWDX]RKXOFTBTR\B@GXLN@GZ_GYO^JWTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Tue, 24 Feb 2009 14:41:52 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:8348
rec.radio.amateur.homebrew:1926 rec.radio.amateur.misc:3837

> http://www.youtube.com/watch?v=EWQhlmJTMzw

What are the critical dimensions? If one wanted to use better materials
(plastic rather than wood for the base; aluminum tube rather than wire), how
does one calculate the dimensions?

I mean, "about 2 inches down" and "about 5-3/4 inches between elements", and
"tips about 3 inches apart" are the results of some calculations. What are

the calculations that determine these dimensions for this style of antenna?

Thanks,
--
DaveC
me@bogusdomain.net
This is an invalid return address
Please reply in the news group

From 5007555731500459444
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
69.16.177.242.MISMATCH!cyclone02.ams2.highwinds-media.com!news.highwinds-media.com!npeersf02.ams.highwinds-media.com!newsfe29.ams2.POSTED!7564ea0f!not-for-mail
Message-ID: <1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
<ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
<1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
Lines: 18
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Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.06-S (<XwbqWOJ$KPDAePCjtRBoeARfO1>)
NNTP-Posting-Host: 80.176.138.122
X-Complaints-To: abuse@demon.net
X-Trace: newsfe29.ams2 1235516219 80.176.138.122 (Tue, 24 Feb 2009 22:56:59 UTC)
NNTP-Posting-Date: Tue, 24 Feb 2009 22:56:59 UTC
Date: Tue, 24 Feb 2009 22:56:55 +0000
Xref: g2news1.google.com rec.radio.amateur.antenna:8349
rec.radio.amateur.homebrew:1927 rec.radio.amateur.misc:3838

In message <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>,
DaveC <me@bogusdomain.net> writes
>> http://www.youtube.com/watch?v=EWQhlmJTMzw
>
>What are the critical dimensions? If one wanted to use better materials
>(plastic rather than wood for the base; aluminum tube rather than wire), how
>does one calculate the dimensions?
>
>I mean, "about 2 inches down" and "about 5-3/4 inches between elements", and
>"tips about 3 inches apart" are the results of some calculations. What are

>the calculations that determine these dimensions for this style of antenna?
>
All dimensions will be approximately +/- 0.001".

Seriously, when the antenna simply gets dumped behind the TV set, do you
really think that any of the dimensions will be very critical?
--
Ian

From 2875501005564595403
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!newshub.sdsu.edu!
flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!flpi149.ffdc.sbc.com.POSTED!ac3deb13!not-for-mail
From: DaveC <me@bogusdomain.net>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C5C9D75201BEB22FB04379AF@news.sf.sbcglobal.net>
Subject: Re: Hack a DTV antenna for dual directions?
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Reply-To: me@bogusdomain.net
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <ebd65c07-
ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-
bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
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NNTP-Posting-Host: 99.189.171.35
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi149.ffdc.sbc.com 1235523748 ST000 99.189.171.35 (Tue, 24 Feb 2009
20:02:28 EST)
NNTP-Posting-Date: Tue, 24 Feb 2009 20:02:28 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
Q[R_@SFD\ZVER_@Y@BCD^VX@WB]^PCPDLXUNNHXIJYWZUYICD^RAQBKZQTZTX_I[^G_KGFNON[ZOE_AZN
VO^\XGGNTCIRPIJH[@RQKBXLRZ@CD^HKANYVW@RLGEZEJN@_WZJBNZYYKVIOR]T]MNMG_Z[YVWSCH_Q[G
PC_A@CARQVXDSDA^M]@DRVUM@RBM
Date: Tue, 24 Feb 2009 16:56:50 -0800
Xref: g2news2.google.com rec.radio.amateur.antenna:10131
rec.radio.amateur.homebrew:2225 rec.radio.amateur.misc:4094

> Seriously, when the antenna simply gets dumped behind the TV set, do you
> really think that any of the dimensions will be very critical?

If one were to build something to better specs, with better materials, in a much better location (not dumped behind anything)?

I presume there's antenna design formulae that result in the proper dimensions for this type of antenna. Where can I find this information (preferably on-line)?

With my Google criteria, I don't find much that's useful.

Thanks.
--
DaveC
me@bogusdomain.net
This is an invalid return address
Please reply in the news group

From -1371158422500113358
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 24 Feb 2009 20:23:50 -0600
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net> <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net> <1uz374a3sHpJFwj5@g3ohx.demon.co.uk> <0001HW.C5C9D75201BEB22FB04379AF@news.sf.sbcglobal.net>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Tue, 24 Feb 2009 18:23:24 -0800
Message-ID: <slme76-1na.ln1@radagast.org>
Lines: 23
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.159.209.148
X-Trace: sv3-x9ST11fkltyK/75MKmwcbY3jq2or9V4eI36xU33vzrRMzzVe92WbvQR5k4wkWVngxX4cKx1P/T5b2ZF!+a7YndedIOVXfM2Nuyh1bsojLG1inantm+vHalYpzCRt+oj02Cs3DRR9DNohdA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.antenna:10132 rec.radio.amateur.homebrew:2226 rec.radio.amateur.misc:4095

```
>> Seriously, when the antenna simply gets dumped behind the TV set, do you
>> really think that any of the dimensions will be very critical?
>
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>much better location (not dumped behind anything)?
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>dimensions for this type of antenna. Where can I find this information
>(preferably on-line)?

The following may be useful:

   http://www.digitalhome.ca/ota/superantenna/index.htm

Single- and double-bay Gray-Hoverman UHF antennas, which can be built
using either of several styles of reflector - a full screen, a split
screen, or a set of collinear rods.

--
Dave Platt <dplatt@radagast.org>                                   AE6EO
Friends of Jade Warrior home page:  http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!


From -4293373287336618003
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!v19g2000yqn.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Date: Tue, 24 Feb 2009 20:46:35 -0800 (PST)
Organization: http://groups.google.com
Lines: 46
Message-ID: <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
     <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
     <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-
bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
     <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
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NNTP-Posting-Date: Wed, 25 Feb 2009 04:46:35 +0000 (UTC)
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     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.antenna:8355
rec.radio.amateur.homebrew:1930 rec.radio.amateur.misc:3841

On Feb 24, 5:56=A0pm, Ian Jackson
<ianREMOVETHISjack...@g3ohx.demon.co.uk> wrote:
> In message <0001HW.C5C9B7B001B74859B0437...@news.sf.sbcglobal.net>,
> DaveC <m...@bogusdomain.net> writes>>http://www.youtube.com/watch?v=3DEWQ=
hlmJTMzw
>
> >What are the critical dimensions? If one wanted to use better materials
> >(plastic rather than wood for the base; aluminum tube rather than wire),=
 how
> >does one calculate the dimensions?
>
> >I mean, "about 2 inches down" and "about 5-3/4 inches between elements",=
 and
> >"tips about 3 inches apart" are the results of some calculations. What a=
re
> >the calculations that determine these dimensions for this style of anten=
na?
>
> All dimensions will be approximately +/- 0.001".
>
> Seriously, when the antenna simply gets dumped behind the TV set, do you
> really think that any of the dimensions will be very critical?
> --
> Ian

When I lived in the Air Force barracks a guy bought a very similar
antenna at Radio Shack. This was after cable had been removed because
so many people were stealing it.
Anyway it didnt take long before everyone started building their own
antenna copied from the RS one. The stock of brazing rods at the
motorpool was depleated very quickly.

Funny thing, I was accused of stealing cable though I wasnt hooked up
to it. I was able to demonstrate to the First Sargent that I could
receive Cable TV just off of the leakage from the system and argued
that the Cable company had the responsibility to prevent radiation
from their equipment. He agreed. What I learned was  really happening
was that the guy in the room next to me had his rabbit ears connected
to the cable input of his TV  and was broadcastinig it. About 10 rooms
could clearly pickup the signal from this. Unfortunately several
people had simply made illegal connections to the cable system. I
understand that the same thing is happening now with internaet service
```

in the barracks. My nephew tells me that it has been forbidden to have
a wireless router in the barracks for ths isame reason.

Jimmie

```
From 6952961829286078671
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe22.iad.POSTED!7564ea0f!not-for-mail
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
<0001HW.C5C9D75201BEB22FB04379AF@news.sf.sbcglobal.net>
<slme76-1na.ln1@radagast.org>
Subject: Re: Hack a DTV antenna for dual directions?
Lines: 25
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <Gp4pl.16030$Si4.8836@newsfe22.iad>
NNTP-Posting-Host: 72.199.60.254
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe22.iad 1235538662 72.199.60.254 (Wed, 25 Feb 2009 05:11:02 UTC)
NNTP-Posting-Date: Wed, 25 Feb 2009 05:11:02 UTC
Organization: Cox
Date: Tue, 24 Feb 2009 21:11:02 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:8356
rec.radio.amateur.homebrew:1931 rec.radio.amateur.misc:3842
```

"Dave Platt" <dplatt@radagast.org> wrote in message
news:slme76-1na.ln1@radagast.org...

< snip >

> The following may be useful:
>
>   http://www.digitalhome.ca/ota/superantenna/index.htm
>
> Single- and double-bay Gray-Hoverman UHF antennas, which can be built
> using either of several styles of reflector - a full screen, a split
> screen, or a set of collinear rods.

I see the 300 ohm feedpoint for the single bay but the double bay is a
little different. I can see something's attached to the two bars that run
vertically and join the antennas (in the photo that shows the double bay
with PVC frame), but I can't tell if there's a balun there. Do we know what
the impedance is at that point?

I may need to try reaching the people who did the web page. Thanks.

"Sal"

From 5942090796307989181
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news2
From: Bill M <radioexray@geeemail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Date: Tue, 24 Feb 2009 22:23:42 -0700
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 14
Message-ID: <go2kl512s3b@news2.newsguy.com>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
<0001HW.C5C9D75201BEB22FB04379AF@news.sf.sbcglobal.net>
<slme76-1na.ln1@radagast.org> <Gp4pl.16030$Si4.8836@newsfe22.iad>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
In-Reply-To: <Gp4pl.16030$Si4.8836@newsfe22.iad>
Xref: g2news2.google.com rec.radio.amateur.antenna:10135
rec.radio.amateur.homebrew:2229 rec.radio.amateur.misc:4098

Sal M. Onella wrote:

>
> I see the 300 ohm feedpoint for the single bay but the double bay is a
> little different. I can see something's attached to the two bars that run
> vertically and join the antennas (in the photo that shows the double bay
> with PVC frame), but I can't tell if there's a balun there. Do we know what
> the impedance is at that point?

Given that the presumed bandwidth of the antenna ranges from 470 to 700
Mhz (not counting any VHF bonus) I figure there's no specific impedance
other than 'ballpark'.

-Bill

From 7141074138658968809
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!
multikabel.net!newsfeed20.multikabel.net!zen.net.uk!dedekind.zen.co.uk!aioe.org!
ianREMOVETHISjackson
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
Date: Wed, 25 Feb 2009 09:49:42 +0000
Organization: Aioe.org NNTP Server
Lines: 24
Message-ID: <OvDp7kG2QRpJFwFL@g3ohx.demon.co.uk>
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
<ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
<1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
<0001HW.C5C9D75201BEB22FB04379AF@news.sf.sbcglobal.net>
NNTP-Posting-Host: 8ScIRg/PZPLSC4RDtCvRow.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Wed, 25 Feb 2009 09:49:27 +0000 (UTC)
X-Notice: Filtered by postfilter v. 0.7.7
Cancel-Lock: sha1:Q0TFeMQDltmJbeyPpp6pwJVBoxM=
User-Agent: Turnpike/6.06-S (<XCXqWG77KPDzWPCjeRDoeAZsun>)
Xref: g2news1.google.com rec.radio.amateur.antenna:8359
rec.radio.amateur.homebrew:1933 rec.radio.amateur.misc:3844

In message <0001HW.C5C9D75201BEB22FB04379AF@news.sf.sbcglobal.net>,
DaveC <me@bogusdomain.net> writes
>> Seriously, when the antenna simply gets dumped behind the TV set, do you
>> really think that any of the dimensions will be very critical?
>
>If one were to build something to better specs, with better materials, in a
>much better location (not dumped behind anything)?
>
>I presume there's antenna design formulae that result in the proper
>dimensions for this type of antenna. Where can I find this information

```
>(preferably on-line)?
>
>With my Google criteria, I don't find much that's useful.
>
I don't think there's anything wrong with the materials. It's basically
a sound design. It's just that (unless I'm very much mistaken) the
elements need be around a quarterwave in front of the reflector (more
like 6 inches instead of the less than 2 inches shown), and you need to
mount the antenna 'in the clear', and point it towards the transmitter.
Obviously, with these materials, the antenna is best suited to mounting
in a loft, provided that the roof tiles and lining are adequately
transparent to UHF RF.
--
Ian



From 6391190587316038343
X-Google-Thread: fcc6e,ae3166f19c9219c1
X-Google-Thread: fc2a5,ae3166f19c9219c1
X-Google-Thread: 107ada,ae3166f19c9219c1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 25 Feb 2009 05:20:28 -0600
Date: Wed, 25 Feb 2009 11:20:27 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Hack a DTV antenna for dual directions?
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
     <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
     <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net> <1a221a01-4140-4008-
bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk> <d36b413a-da35-430c-b8c2-
a34816a62fce@v19g2000yqn.googlegroups.com>
In-Reply-To: <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.71.168
X-Trace: sv3-
pN3Zi10GlmU16fgWTJ6auwU9RrYspijSDPPaS93j0dvlvf6sXLsOpqA0SY5P8jwynqI8f2+xreeknyb!
s64Nt2sA/8f4izKNqUjyJn9Cn6+zhJQwlEfMYq4uqqH0e3gKnWX4XCk81i1AVyTQ2U7K3NR5WWUa!
2BASNZQxCeKZeRTLJszmdovXAw==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
```

```
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:8361
rec.radio.amateur.homebrew:1934 rec.radio.amateur.misc:3845

JIMMIE wrote:
 > snip
> Unfortunately several
> people had simply made illegal connections to the cable system. I
> understand that the same thing is happening now with internaet service
> in the barracks. My nephew tells me that it has been forbidden to have
> a wireless router in the barracks for ths isame reason.
>
> Jimmie
==============================================
Here in Britain it is illegal to 'tap' an individual's or
organisation's/company's Wifi for Internet Access without permission,
however with consent of the Wifi router  owner it is permitted.
I know that for example in the Netherlands (usually large)houses are
often occupied by up to 20 students . With 1 Hi-speed /unlimited
download (A)DSL connection , they all share that 1 connection.
They don't need an e-mail address from the ISP but have one or more from
Google or Yahoo .

If I had a neighbour close by I would be happy to share my connection.

Frank  GM0CSZ / KN6WH


From -8799933762269421203
X-Google-Thread: fc2a5,2d355c96148df6c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 05 Feb 2009 15:26:45 -0600
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups: rec.radio.amateur.homebrew
References: <YKHil.8275$aJ3.8054@newsfe23.ams2>
Subject: Re: 2SC2509 ?
Date: Thu, 5 Feb 2009 16:26:43 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <GvednVQGVYYIxBbUnZ2dnUVZ_u2dnZ2d@giganews.com>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-kdi3qY/YtQ5aL5gFhDi1i7JcSktvK/
```

aCoWb+vieXfoGc9V9JWxRvKk5SfMZZHBEC9Teq7N4M+G9Wap8!
mnSqEojWdOMMmswyGWQm81SgMtAFCxGMZ89/tbpyq4auh/BUCkK87nMXflaIYHvGpqu9bSmAztL6
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1835

"Theo" <theodore.twyler@ntlworld.com> wrote in message news:YKHil.8275$aJ3.8054@newsfe23.ams2...
> Anyone out there know where I can buy a couple of 2SC2509 transistors?
> Any help will be greatly appreciated.
>
> Theo
>

These sites indicate that they have stock:
http://www.mcmelectronics.com/product/2SC2509
and
http://www.ceitron.com/semi/semi.phtml?part=2SC2509+

--
Dave M
MasonDG44 at comcast dot net (Just substitute the appropriate characters in the address)

Life is like a roll of toilet paper; the closer it gets to the end, the faster it goes.

From 3485131548442002674
X-Google-Thread: fc2a5,2d355c96148df6c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 05 Feb 2009 16:31:58 -0600
Date: Thu, 05 Feb 2009 22:31:58 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2SC2509 ?
References: <YKHil.8275$aJ3.8054@newsfe23.ams2>
In-Reply-To: <YKHil.8275$aJ3.8054@newsfe23.ams2>
Content-Type: text/plain; charset=us-ascii; format=flowed

```
Content-Transfer-Encoding: 7bit
Message-ID: <RoednavOHpJC9RbUnZ2dnUVZ_vSdnZ2d@bright.net>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
Vz8FMVoo+9DJDo0fD1+57+ySldHlOH4U8l1QKlkT2JOhje8U4MJwZJkoIB0Vf2v6GhN7S10sj5ZZL5/!
etyPnSoRh0LghyvmZSMC9sRtb0lbfcDxqdkVTf+2dhupmFFteLZn5y4cZ+tjqt5NN/lPf//LLPeA!
vNDAkojvLw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2133

Theo wrote:
> Anyone out there know where I can buy a couple of 2SC2509 transistors?
> Any help will be greatly appreciated.
>
> Theo
>
>

It says "Call" for price and they have a $25 minimum order, but at least
they might have them...

http://www.rfparts.com/transistors_2SC.html#2458

Scott
N0EDV



From -2898305143991366319
X-Google-Thread: fc2a5,913a84dc6110da18,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: FINNISH,ASCII
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad.newshosting.com!newshosting.com!newsfeed.icl.net!
newsfeed.fjserv.net!newsfeed.ision.net!newsfeed2.easynews.net!ision!
news.shlink.de!not-for-mail
From: Toni Karppinen <toni@metall.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kubuntusta
Followup-To:
sfnet.keskustelu.skeptismi,sfnet.keskustelu.tyoelama,sfnet.urheilu.yleisurheilu,re
c.radio.amateur.homebrew
Date: Fri, 6 Feb 2009 02:17:24 +0000 (UTC)
Organization: SHLINK Internet Service
Lines: 47
Message-ID: <yl_ck.29839$_03.3892@225.233.113.121>
References: <4876E5CE.358C@enef.fi>
NNTP-Posting-Host: 66.230.230.230
Mime-Version: 1.0
```

Content-Type: text/plain;
Content-Transfer-Encoding: 8bit
X-Trace: news.shlink.de 1233886644 8862 66.230.230.230 (6 Feb 2009 02:17:24 GMT)
X-Complaints-To: abuse@shlink.de
NNTP-Posting-Date: Fri, 6 Feb 2009 02:17:24 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2134

M.T.09.05-08.Tanskan insin��riliitossa uskotaan uusiutuvaan energiaan "Energiasuunnitelma 2030"- nimisen raportin (ES). Sen tekoon osallistui 1 600 insin��ri� ja muita energia-asiantuntijoita. ES:st� sijoitukset uudisenergiaan ovat ekologisesti ja taloudellisesti hyvin perusteltuja. Samoin varteenotettavia vientimahdollisuuksia. Uudisenergia tulee rajusti lis��ntym��n. Tanska p��see v.2030 pitk�lle kokonaan uudisenergiaan. Arvellaan 50% osuutta jo silloin.

Kasvihuonep��st�ist� poistuu 60% ja n�in s��styy 15 miljardia kruunua/v. Investointitulojen kasvuksi 30 miljardista 160 miljardiin v-30. S��st�� 845 petajoulesta 580 petajouleen. Suomessa 1 400 petajoulea. Teollisuus voi v�hent�� 30%! S��st�� t�st� 6 miljardia kruunua. Takaisinmaksuaika investoinneista 6-7 vuodessa. T�h�n budjetti 107 milj. euroa. Rakennusten energiankulutuksen puolitus 2030. 15% tulisi aurinkoenergiasta. S�hk�st� pois 40%. Jo 2020 j�lkeen rakennettavien talojen arvioidaan olevan JO energianeutraalin. Energias��st�s��ti��n pannaan miljardi kruunua.

Liikenne Tanskassa viel� kasvaa 2%/v. Siit� tullaan poistamaan 20% nykytasosta korvaamalla siit� biopolttoaineella. Viidennes s�hk�autoihin. Rautateille lis�yst�. Verotus suosimaan ymp�rist�yst�v�llisi� autoja. Kuljetuksiin 200 miljardia kruunua l. 27miljardia. V�hent�en terveydenhuoltoa, ruuhkien ja ymp�rist�nsuojelun menot. Huomattavasti nykyist� suurempi osuus uusiutuvista l�hteist�. Tuulipuolella Tanska suuntaa merien offshoretuulivoimaan. ES:n tavoite on kaksinkertaistaa tuulivoimaansa s�hk�st� huikeaan 60 prosenttiin!!!

Aurinkosoluille 2030 ennakoidaan 2% ja aaltovoiman 5% s�hk�ntuotannosta. Aaltovoimaa pidet��n eritt�in merkitt�v�n�. Biomassasta ennakoidaan 30% v.2030. Mukana biopolttoaineiden 20%. Biokaasuun luotetaan, samoin uuden sukupolven biopolttoaineisiin. N�ihin Tanska sijoittaa paljon. Biopolttoainesektorikasvaa 20 miljardiin kruunuun 2,7miljardiin euroon. Kolmannes 2030 voimaloista k�ytt�� jo tehokkaita polttokennoja ja l�mp�pumput ovat arkilaitteita. Tutkimuksiin nostetaan 350 miljoonasta miljardiin kruunuun. Valtio kevitt�� uudisenergiainvestointiriskitt�m�mpi� sy�tt�tariffeja. "Saastuttaja maksaa periaatteella!"(Suomessa ydinalalle moinen olisi ennenkokematonta!)

Suositellaan luopumista verotuksesta joka est�� siirtymist� fossiileista uudisenergiaan. Lentopetrolille veroa. Tanskassa on oleellisesti helpompaa toteuttaa uutta energiapolitiikkaa. Valitettavasti meill� ei edelleenk��n olla valmiita sellaisiin toimiin, joilla kokonaisenergian kulutus saadaan selv��n laskuun ja uusiutuvan energian ja sit� tukevan teknologian k�ytt� vahvaan nousuun.

U.B. Linstr�m kehitys- ja ymp�rist�kysymyksiin erikoistunen professorin yleis�osastokirjoituslyhemnelm�.

From 3995272037149874223
X-Google-Thread: fc2a5,2d355c96148df6c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!69.16.177.246.MISMATCH!cyclone03.ams2.highwinds-media.com!news.highwinds-media.com!npeersf01.ams.highwinds-media.com!newsfe22.ams2.POSTED!7564ea0f!not-for-mail
From: "Theo" <theodore.twyler@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
References: <YKHil.8275$aJ3.8054@newsfe23.ams2>
<RoednavOHpJC9RbUnZ2dnUVZ_vSdnZ2d@bright.net>
Subject: Re: 2SC2509 ?
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <oq0jl.7869$n_6.2251@newsfe22.ams2>
NNTP-Posting-Host: 86.15.197.154
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe22.ams2 1233949460 86.15.197.154 (Fri, 06 Feb 2009 19:44:20 UTC)
NNTP-Posting-Date: Fri, 06 Feb 2009 19:44:20 UTC
Organization: virginmedia.com
Date: Fri, 6 Feb 2009 19:44:14 -0000
Xref: g2news2.google.com rec.radio.amateur.homebrew:2135

"Scott" <acepilotREMOVE@bloomer.net> wrote in message
news:RoednavOHpJC9RbUnZ2dnUVZ_vSdnZ2d@bright.net...
> Theo wrote:
>> Anyone out there know where I can buy a couple of 2SC2509 transistors?
>> Any help will be greatly appreciated.
>>
>> Theo
>
> It says "Call" for price and they have a $25 minimum order, but at least
> they might have them...
>
> http://www.rfparts.com/transistors_2SC.html#2458

Thanks Scott,
I have contacted RF Parts who inform me the transistor is now obsolete and so is the equivalent.
Does anyone know what the equivalent is to the 2SC2509 so I can search for that too?

```
From 4035259521808437968
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!w1g2000prm.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
Date: Fri, 6 Feb 2009 11:56:37 -0800 (PST)
Organization: http://groups.google.com
Lines: 43
Message-ID: <a583f333-5677-479d-8340-684ed8d6c8e2@w1g2000prm.googlegroups.com>
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
     <EdB1l.16656$uS1.14886@newsfe19.iad> <mVHHgPEIM2RJFADl@ifwtech.co.uk>
     <f286a892-c26b-4e87-b474-cfd5318669d2@z28g2000prd.googlegroups.com>
     <aMCY2+hTsWSJFAdI@ifwtech.co.uk> <cf31fe1d-
d5f0-4661-9950-4b2a1140f058@a29g2000pra.googlegroups.com>
     <6265054f-7d25-4349-8a97-abeb6f340754@r2g2000vbp.googlegroups.com>
     <wAD2l.532$P5.219@nwrddc02.gnilink.net> <58ec09e8-
cb50-4dea-962e-3ddfc9ea06d9@v42g2000yqv.googlegroups.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1233950198 16410 127.0.0.1 (6 Feb 2009 19:56:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 6 Feb 2009 19:56:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w1g2000prm.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1839
```

On Dec 19 2008, 12:14=A0pm, raypsi <RBorow...@gmail.com> wrote:
> On Dec 18, 9:23=A0pm, "Dale Parfitt" <pari...@verizon.net> wrote:
>
>
>
>
>
> > =A0>> Jimmie
>
> > > Hey OM
>
> > > did you looky at harbor freight tools?
>
> > > I seen a twin blade circular saw $60 only
>
> > > 73 OM

```
>
> > > n8zu
>
> > Commercially, we use a triple chip blade. The current blade is almost 1=
0
> > years old and leaves a mirror finish on the aluminum cut.
>
> > Dale W4OP
>
> Hey OM
> If a twin blade 6.25 inch blade cuts like a 14 inch blade what's a
> triple blade cut like?
>
> And can you shave your face with that mirror?
> That would make one heck of a disco ceiling mirror ball.
>
> Twin blade is lifetime gaurantee.
>
> 73 OM
> n8zu- Hide quoted text -
>
> - Show quoted text -

For those still interested I found that Delta makes a non ferrous
blade that sells for about $25 USD.

Jimmie



From 2897305571856760199
X-Google-Thread: fc2a5,2d355c96148df6c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 06 Feb 2009 15:08:04 -0600
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2SC2509 ?
References: <YKHil.8275$aJ3.8054@newsfe23.ams2>
<RoednavOHpJC9RbUnZ2dnUVZ_vSdnZ2d@bright.net> <oq0jl.7869$n_6.2251@newsfe22.ams2>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Fri, 6 Feb 2009 13:00:31 -0800
Message-ID: <f0lu56-rgc.ln1@radagast.org>
Lines: 32
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.159.209.148
X-Trace: sv3-
s47HUZHtuVGCQvHY0Rx9tU5PoWWJExjs1Ip2j8vlTFCbMXkA7LLVqEeR0xhjdPumJjqWlD+AdkZ+hT9!
2yEYeGHjvke+D58rG14IS1m3uV094fRm2fJeitRKRWKspPivpdhWVfRhmvjMuQ==
```

X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2137

In article <oq0jl.7869$n_6.2251@newsfe22.ams2>,
Theo <theodore.twyler@ntlworld.com> wrote:

>Thanks Scott,
>I have contacted RF Parts who inform me the transistor is now obsolete and
>so is the equivalent.
>Does anyone know what the equivalent is to the 2SC2509 so I can search for
>that too?

It looks as if ECG236 is one possible substitute, and 2SC1945 is
another. You might also check out 2SC1969 and MRF-485... depending on
your application they might work. Kenwood apparently recommends the
2SC3133 as a substitute in the TS-450.

The lead configurations for these substitutes may be different and
require lead-swapping, and other parts changes may be required when
using substitute transistors.

Beware of possible fake/forged/counterfeit parts.

I believe I've seen some mod workups for CB rigs, which substitute an
entirely different sort of part (e.g. the IRF510) as an RF driver or
final. Using the IRF510 or similar MOSFETs as RF finals requires
substantial circuit modification, and from what I've heard the
efficiency is likely to be poor if you're driving them from a 12-volt
supply.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From 3443189530456357047
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news1.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe24.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com> <EdB1l.16656$uS1.14886@newsfe19.iad> <mVHHgPEIM2RJFADl@ifwtech.co.uk> <f286a892-c26b-4e87-b474-cfd5318669d2@z28g2000prd.googlegroups.com> <aMCY2+hTsWSJFAdI@ifwtech.co.uk> <cf31fe1d-

d5f0-4661-9950-4b2a1140f058@a29g2000pra.googlegroups.com>
<6265054f-7d25-4349-8a97-abeb6f340754@r2g2000vbp.googlegroups.com>
<wAD2l.532$P5.219@nwrddc02.gnilink.net> <58ec09e8-cb50-4dea-962e-3ddfc9ea06d9@v42g2000yqv.googlegroups.com>
<a583f333-5677-479d-8340-684ed8d6c8e2@w1g2000prm.googlegroups.com>
Subject: Re: Cutting non ferrous metals with a table saw
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <NE2jl.449$AC1.378@newsfe24.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe24.iad 1233958573 68.229.77.6 (Fri, 06 Feb 2009 22:16:13 UTC)
NNTP-Posting-Date: Fri, 06 Feb 2009 22:16:13 UTC
Organization: Cox
Date: Fri, 6 Feb 2009 17:16:02 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1841

"JIMMIE" <jimmie68@gmail.com> wrote in message news:a583f333-5677-479d > >
 >> Jimmie
 > For those still interested I found that Delta makes a non ferrous
blade that sells for about $25 USD.

Jimmie

Very interested. What size blade, and how does it cut aluminum?

Pete

From 3957311576936215710
X-Google-Thread: fc2a5,2d355c96148df6c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!feed-me.highwinds-media.com!cyclone01.ams2.highwinds-media.com!news.highwinds-media.com!npeersf01.ams.highwinds-media.com!newsfe15.ams2.POSTED!7564ea0f!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Followup-To: rec.radio.amateur.homebrew
Lines: 7
From: Colin J Thomson <colin@gsixavk.demon.co.uk>
Subject: Re: 2SC2509 ?
Reply-To: colin@g6avk.demon.co.uk
References: <YKHil.8275$aJ3.8054@newsfe23.ams2>
<RoednavOHpJC9RbUnZ2dnUVZ_vSdnZ2d@bright.net> <oq0jl.7869$n_6.2251@newsfe22.ams2>
User-Agent: KNode/0.99.01

```
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7Bit
Message-ID: <gu3jl.26109$eY.21667@newsfe15.ams2>
NNTP-Posting-Host: 80.176.89.37
X-Complaints-To: abuse@demon.net
X-Trace: newsfe15.ams2 1233961996 80.176.89.37 (Fri, 06 Feb 2009 23:13:16 UTC)
NNTP-Posting-Date: Fri, 06 Feb 2009 23:13:16 UTC
Date: Fri, 06 Feb 2009 23:11:32 +0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:1842
```

Theo wrote:

```
>>> Anyone out there know where I can buy a couple of 2SC2509 transistors?
>>> Any help will be greatly appreciated.
```

Someone has a pair on Ebay # 270328247825

73 Colin - G6AVK

```
From -2911080259195976395
X-Google-Thread: fc2a5,2d355c96148df6c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 06 Feb 2009 19:05:47 -0600
Date: Sat, 07 Feb 2009 01:05:46 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2SC2509 ?
References: <YKHil.8275$aJ3.8054@newsfe23.ams2>
<RoednavOHpJC9RbUnZ2dnUVZ_vSdnZ2d@bright.net> <oq0jl.7869$n_6.2251@newsfe22.ams2>
In-Reply-To: <oq0jl.7869$n_6.2251@newsfe22.ams2>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <FfydnWu_XbT2QxHUnZ2dnUVZ_jWWnZ2d@bright.net>
Lines: 38
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-aEB6/
f58p58d1mmZvg8kXeziE62OxMm4NOsSapgMPUEBLUKLK61fTgljtmnZHfgxq1VDC8GnA/4ILzh!
8vTG6SBIiIOuOZzwqZClbMMumLF9vrQkSwwomwljG3jz411geVUTeabvtnGhmvNSXtxkBNRHaEXP!
fjixGPY5vA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

```
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2140

Theo wrote:
> "Scott" <acepilotREMOVE@bloomer.net> wrote in message
> news:RoednavOHpJC9RbUnZ2dnUVZ_vSdnZ2d@bright.net...
>
>>Theo wrote:
>>
>>>Anyone out there know where I can buy a couple of 2SC2509 transistors?
>>>Any help will be greatly appreciated.
>>>
>>>Theo
>>
>>It says "Call" for price and they have a $25 minimum order, but at least
>>they might have them...
>>
>>http://www.rfparts.com/transistors_2SC.html#2458
>
>
> Thanks Scott,
> I have contacted RF Parts who inform me the transistor is now obsolete and
> so is the equivalent.
> Does anyone know what the equivalent is to the 2SC2509 so I can search for
> that too?
>
>
Crap.  Sorry about that :(  Is everything obsolete these days such that
nobody can build anything anymore?  I was going to make another 222
transverter from W1GHZ, but the stupid helical filters aren't available
anymore (I think Digikey still has some but they want $48 each for a 222
  three pole filter.  That's nuts!  So, I have a blank board and I'm
going to try to make a simple filter and see if I can make it
work...I've been "build crazy" for the past couple years and it's
getting harder and harder!  You have to pretty much build something very
soon after it appears in a magazine or some part will go obsolete and
you're stuck...

Scott
N0EDV




From 5842660816501819217
X-Google-Thread: fcc6e,ae88261a71a60bd9,start
X-Google-Thread: 11480d,ae88261a71a60bd9,start
X-Google-Thread: 108122,ae88261a71a60bd9,start
X-Google-Thread: fc2a5,ae88261a71a60bd9,start
X-Google-Thread: 107ada,ae88261a71a60bd9,start
X-Google-Thread: 10bf43,ae88261a71a60bd9,start
X-Google-Thread: 10b9c8,ae88261a71a60bd9,start
X-Google-Attributes:
gidfcc6e,gid11480d,gid108122,gidfc2a5,gid107ada,gid10bf43,gid10b9c8,domainid0,publ
```

ic,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad.newshosting.com!
newshosting.com!newspeer.monmouth.com!newsswitch.lcs.mit.edu!bloom-beacon.mit.edu!
panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1231311901@panix.com>
Followup-To: poster
Date: 7 Feb 2009 02:05:01 -0500
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 12 Mar 2009 03:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1233990300@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1233990302 22241 166.84.1.2 (7 Feb 2009 07:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 7 Feb 2009 07:05:02 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:7906 rec.radio.amateur.dx:258
rec.radio.amateur.equipment:1127 rec.radio.amateur.homebrew:1844
rec.radio.amateur.misc:3583 rec.radio.amateur.policy:21980 rec.radio.info:488

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT

Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions. We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

From 6119970300588932727
X-Google-Thread: fc2a5,2d355c96148df6c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.astraweb.com!
border5.newsrouter.astraweb.com!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: 2SC2509 ?
Date: Fri, 06 Feb 2009 23:28:25 -0800
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2009.02.07.07.28.25.161100@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <YKHil.8275$aJ3.8054@newsfe23.ams2>
<RoednavOHpJC9RbUnZ2dnUVZ_vSdnZ2d@bright.net> <oq0jl.7869$n_6.2251@newsfe22.ams2>
<gu3jl.26109$eY.21667@newsfe15.ams2>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 14
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 166850ab.news.astraweb.com
X-Trace: DXC=8i]=bFRSATnf3Y_QHDVbKhL?
0kYOcDh@jG=RXWURi7Od<SU1M`NkC4iE225kP77^Sd:i1N2;`Z\ioNccJo_\da3e
Xref: g2news1.google.com rec.radio.amateur.homebrew:1845

On Fri, 06 Feb 2009 23:11:32 +0000, Colin J Thomson wrote:

> Theo wrote:
>>>> Anyone out there know where I can buy a couple of 2SC2509 transistors?
>>>> Any help will be greatly appreciated.
>
> Someone has a pair on Ebay # 270328247825
>
> 73 Colin - G6AVK

Look at his feedback before deciding to bid.

From my standpoint, he has stupidly excessive shipping for transistors.

From -6766078977623868540
X-Google-Thread: fc2a5,2d355c96148df6c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!t3g2000yqa.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2SC2509 ?
Date: Sat, 7 Feb 2009 03:37:57 -0800 (PST)
Organization: http://groups.google.com
Lines: 15
Message-ID: <590b54d4-e2b4-4857-beb7-903dca5822ac@t3g2000yqa.googlegroups.com>
References: <YKHil.8275$aJ3.8054@newsfe23.ams2>
NNTP-Posting-Host: 76.232.148.162
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1234006678 12072 127.0.0.1 (7 Feb 2009 11:37:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 7 Feb 2009 11:37:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t3g2000yqa.googlegroups.com; posting-host=76.232.148.162;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1846

On Feb 5, 3:12=A0pm, "Theo" <theodore.twy...@ntlworld.com> wrote:
> Anyone out there know where I can buy a couple of 2SC2509 transistors?
> Any help will be greatly appreciated.
>
> Theo

Hey OM

I'd use a 2SC1969, used almost in every common CB radio as a final.
I saw them here with no minimum order I can see:

http://tinyurl.com/b5gv7e

73 OM
de n8zu

```
From 3567292176151255802
X-Google-Thread: fc2a5,b8313cb81a65bf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 07 Feb 2009 06:07:01 -0600
Date: Sat, 07 Feb 2009 12:06:59 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery matching solution?
References: <3F4051E2.64CD6570@NoDirectMail.com>
<k3kin4dqtedltd3qq4afr19qtk3pdi1j4j@4ax.com>
<9mamn41dl9c38q3gbblg2prd3kjqrjko2i@4ax.com>
<bzLel.1756$Aw2.1450@nwrddc02.gnilink.net>
<BJqdnVDwcunZwOPUnZ2dnUVZ8tzinZ2d@pipex.net> <oTJfl.90$N5.23@nwrddc01.gnilink.net>
In-Reply-To: <oTJfl.90$N5.23@nwrddc01.gnilink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <PbydnXn2a6745BDUnZ2dnUVZ8tninZ2d@pipex.net>
Lines: 25
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.71.231
X-Trace: sv3-
x0YcqRBENJNhqqVAmRgYaFqgNHDwoznJxY+67F679jMWtymDG4wrnOhKjBlRStTbzV2EQlXpAAXa39H!
UI3lIfpwLM4rPUHj1U2qUjvBL3qyIZqy1+OftB3BwHYUoExrtiaAj+qgvqcg6T+1/lsC8bpXijRb!
1hxqAW75b0pvAqpMoLWze03VBA==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2144

>> Nicad and NimH cells not regularly used can be best continously tickle
>> charged at  10 -40 mA depending on size/capacity.
>> Example : I have a Wahl cordless battery powered soldering iron 2.4 V (2
>> cells) which is continously trickle charged at 10 mA . When in use the
>> charge rate is switched to 300 mA.
>>
>> Frank      KN6WH / GM0CSZ
------------------------------
> > I have one of those too.  The originals were NiCad ? mAH, Then the 1.2 AH
> fast charge cells, but this last replacement bunch are NiMh 3 AH cells that
> I pulled out of a new Radio Shack race car battery.  This has never gone
> dead on me even after sitting a month in the tool box.   I have both the
> original charger and the Orange one that is just enough for a decent charge
> but has no idea when to shut off.  NiMh don't mind being topped off, but
> don't like to be hit really hard like NiCads do.
```

The original charger inside the orange coloured stand is just a
transformer with an 'embedded' diode ,rather crude .
I have removed the transformer , fitted the stand on top of a small
plastic enclosure in which I have put a transformer with 12V output , a
rectifier and a LM317 with appropriate resistors and a switch for a
constant charging rate of 300 or 10 mA .

Frank GM0CSZ / KN6WH   (back in GM land)

From 6330756800298595489
X-Google-Thread: fc2a5,f286dc97f3ab2170,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe12.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: WTB: HC/6u sockets with xtal clips
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <zRjjl.868$E67.827@newsfe12.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe12.iad 1234029023 68.229.77.6 (Sat, 07 Feb 2009 17:50:23 UTC)
NNTP-Posting-Date: Sat, 07 Feb 2009 17:50:23 UTC
Organization: Cox
Date: Sat, 7 Feb 2009 12:50:10 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:2145

Hi

I need some HC6/u ceramic xtal sockets and the
metal clips that hold the xtals (and ground them.)
I'd be happy just to find the CLIPS, as I do have
a resource for the sockets. Can anyone help
with clips (with or without sockets..)

Pete

From 6043386184468457992
X-Google-Thread: fc2a5,f286dc97f3ab2170
X-Google-Attributes: gidfc2a5,domainid0,public,usenet

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!8c40745b!not-for-mail
Reply-To: "Dale Parfitt" <parinc1@verizon.net>
From: "Dale Parfitt" <parinc1@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <zRjjl.868$E67.827@newsfe12.iad>
Subject: Re: HC/6u sockets with xtal clips
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <8Mkjl.1577$N02.1459@nwrddc02.gnilink.net>
Date: Sat, 07 Feb 2009 18:52:52 GMT
NNTP-Posting-Host: 72.71.113.87
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1234032772 72.71.113.87 (Sat, 07 Feb 2009 13:52:52 EST)
NNTP-Posting-Date: Sat, 07 Feb 2009 13:52:52 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:1849
X-Original-Bytes: 1460

"Tio Pedro" <radioconnection@cox.net> wrote in message
news:zRjjl.868$E67.827@newsfe12.iad...
> Hi
>
> I need some HC6/u ceramic xtal sockets and the
> metal clips that hold the xtals (and ground them.)
> I'd be happy just to find the CLIPS, as I do have
> a resource for the sockets. Can anyone help
> with clips (with or without sockets..)
>
> Pete

Hi Pete,
You could easily make your own out of 1/4" strips of phosphor bronze- Small Parts or K&S Engineering may carry the strips.

Dale

From -9085290282307718233
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!m40g2000yqh.googlegroups.com!not-for-mail

From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
Date: Sat, 7 Feb 2009 12:16:26 -0800 (PST)
Organization: http://groups.google.com
Lines: 23
Message-ID: <581ea8ed-3c03-43e8-832a-f9697581d86d@m40g2000yqh.googlegroups.com>
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
     <EdB1l.16656$uS1.14886@newsfe19.iad> <mVHHgPEIM2RJFADl@ifwtech.co.uk>
     <f286a892-c26b-4e87-b474-cfd5318669d2@z28g2000prd.googlegroups.com>
     <aMCY2+hTsWSJFAdI@ifwtech.co.uk> <cf31fe1d-
d5f0-4661-9950-4b2a1140f058@a29g2000pra.googlegroups.com>
     <6265054f-7d25-4349-8a97-abeb6f340754@r2g2000vbp.googlegroups.com>
     <wAD2l.532$P5.219@nwrddc02.gnilink.net> <58ec09e8-
cb50-4dea-962e-3ddfc9ea06d9@v42g2000yqv.googlegroups.com>
     <a583f333-5677-479d-8340-684ed8d6c8e2@w1g2000prm.googlegroups.com>
     <NE2jl.449$AC1.378@newsfe24.iad>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1234037786 13673 127.0.0.1 (7 Feb 2009 20:16:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 7 Feb 2009 20:16:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m40g2000yqh.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1850

On Feb 6, 5:16=A0pm, "Tio Pedro" <radioconnect...@cox.net> wrote:
> "JIMMIE" <jimmi...@gmail.com> wrote in message news:a583f333-5677-479d > =
>
>
> =A0>> Jimmie
> =A0> For those still interested I found that Delta makes a non ferrous
> blade that sells for about $25 USD.
>
> Jimmie
>
> Very interested. What size blade, and how does it cut aluminum?
>
> Pete

Blade is 10 inch, fits my chop saw , radial arm and table saw.
Ive used it to cut Al tubing and some square bar stock and it seemed
to do a good job.
I tried it on some Al sheet metal and it did pretty awful. I think
this has something to do with the alloy more than the blade. I have
always had trouble doing anything with this piece of stock. It binds
up drill bits in a second.

Jimmie

```
From 8955373514417700279
X-Google-Thread: fc2a5,2d355c96148df6c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.plusnet!news.posted.plusnet.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 07 Feb 2009 14:29:48 -0600
From: "John" <jrw<spam_up>@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <YKHil.8275$aJ3.8054@newsfe23.ams2> <590b54d4-e2b4-4857-
beb7-903dca5822ac@t3g2000yqa.googlegroups.com>
Subject: Re: 2SC2509 ?
Date: Sat, 7 Feb 2009 20:31:08 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <D-OdncE-EIahchDUnZ2dneKdnZydnZ2d@posted.plusnet>
Lines: 36
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-7K33jTkyumSITkjeLdkP35Yg/
A2vwBJsGPFdUOBAxWQ7BJnSJU1nHiKYq6spB61VlXDB7Htrh1vT4JZ!
7ORTB5krOoFGsX0kSDzU7AE8lBMbMZU69SSZFji1zJ5YNfRkxpriiuThaGxdSW0e2esRFpgVwp+u!
Mr0y9q/Ux1Ou
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2148
```

HI

Also try http://www.jabdog.com/semi-tra6.htm for 2SC1969 while stocks last.
Sadly no 2SC2509s though.

Watch out though. Looking on http://www.modecomponents.co.uk/ under the
Transistors section it states:
Due To Mitsubishi discontinuing the below devices and so many
fakes on the market I am no longer stocking them. 2SC1969 is one of the
listed items.

73
John
--
www.wells10000.plus.com/m5aml

"raypsi" <RBorowiak@gmail.com> wrote in message

```
news:590b54d4-e2b4-4857-beb7-903dca5822ac@t3g2000yqa.googlegroups.com...
On Feb 5, 3:12 pm, "Theo" <theodore.twy...@ntlworld.com> wrote:
> Anyone out there know where I can buy a couple of 2SC2509 transistors?
> Any help will be greatly appreciated.
>
> Theo

Hey OM

I'd use a 2SC1969, used almost in every common CB radio as a final.
I saw them here with no minimum order I can see:

http://tinyurl.com/b5gv7e

73 OM
de n8zu




From 1450543853766137127
X-Google-Thread: fc2a5,12dee750b351a0ef
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!feed-
me.highwinds-media.com!cyclone01.ams2.highwinds-media.com!news.highwinds-
media.com!npeersf01.ams.highwinds-media.com!newsfe27.ams2.POSTED!7564ea0f!not-for-
mail
From: "Theo" <theodore.twyler@ntlworld.com>
Newsgroups:
sfnet.harrastus.autot.maahantuonti,sfnet.harrastus.tanssi,sfnet.tori.myydaan.muut,
rec.radio.amateur.homebrew
References: <487516c3$0$15000$8f74b9c5@news.maxinetti.fi>
<3drhk.189$Rh.145@ulogisk.com> <vg6%k.3804$3M4.1132@newsfe20.ams2>
<qSE8l.21$8g5.20@read4.inet.fi>
Subject: Re: testi-testi
Lines: 4
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <KXBjl.5249$9u6.1095@newsfe27.ams2>
NNTP-Posting-Host: 86.15.197.154
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe27.ams2 1234103146 86.15.197.154 (Sun, 08 Feb 2009 14:25:46 UTC)
NNTP-Posting-Date: Sun, 08 Feb 2009 14:25:46 UTC
Organization: virginmedia.com
Date: Sun, 8 Feb 2009 14:25:37 -0000
Xref: g2news1.google.com sfnet.harrastus.autot.maahantuonti:180
sfnet.harrastus.tanssi:132 sfnet.tori.myydaan.muut:682
rec.radio.amateur.homebrew:1852
```

El frinder shetterlimpt den custe mied avserboln.

From -345422149181317112
X-Google-Thread: fc2a5,ebf2f0587f98581d,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 09 Feb 2009 11:13:27 -0600
From: totomarkoto <totomarkoto.3d6199a@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: icom 765
Date: Mon, 9 Feb 2009 12:25:20 +0000
Message-ID: <totomarkoto.3d6199a@radiobanter.com>
Organization: RadioBanter.com
Lines: 10
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-ZQZLPSs1YkwCir+KU/
zjecEjAp5j3QTqWt74RDQu1OIFIwMWHbAsKdyIVN8SfHVaqfjgxPjUlEhuZYO!LEgOy/oRQRa/
bxihqbVuzlodR97EsUauNSB7wq7uhFISjKTSXTIU6ydiZjo0SYv2Apklef2BGSD3!K2W3E5NrHQ==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Lines: 2
Xref: g2news2.google.com rec.radio.amateur.homebrew:2150

Hai there..
i am new commer in this side, Is there any information about
transceiver icom 765, I would like to buy it if possible for me
ofcourse

--
totomarkoto

From 3595953856283135414
X-Google-Thread: fc2a5,ebf2f0587f98581d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail

```
NNTP-Posting-Date: Mon, 09 Feb 2009 13:18:22 -0600
Date: Mon, 09 Feb 2009 19:18:21 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: icom 765
References: <totomarkoto.3d6199a@radiobanter.com>
In-Reply-To: <totomarkoto.3d6199a@radiobanter.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <gv2dnXDyQYvjHA3UnZ2dnUVZ8uidnZ2d@pipex.net>
Lines: 10
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.71.231
X-Trace: sv3-8jBTaLeOw1/
lgv9yi6MNMFsuzZpZThBRlXIZ4B2Hd6q6Cz0w7Ww6Jhs3GM2bgjdUoSZNhhJ9PsK0U5J!
Z6PNvRbcDZdwwGGxs7/Bi0cuLLkW/hYrYfpjjExWlPNFfH1bhfjCjWW83ZfGD9NRRruOi58/YK3Y!
SSRA+1y+l+/vn5OXYZ3FNolhGA==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2151

totomarkoto wrote:
> Hai there..
> i am new commer in this side, Is there any information about
> transceiver icom 765, I would like to buy it if possible for me
> ofcourse
=======
Suggest you go to www.mods.dk  ; there you'll find the instruction
manual for this transceiver;   look for : manuals: Icom ---> 765

Frank    GM0CSZ / KN6WH


From -5269591548790349039
X-Google-Thread: fc2a5,792b18619115bad,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!h5g2000yqh.googlegroups.com!not-for-
mail
From: Jean <ve2ghi@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Looking for voltmeter kit
Date: Thu, 12 Feb 2009 16:19:39 -0800 (PST)
Organization: http://groups.google.com
Lines: 16
Message-ID: <a16c7bca-6ca8-40dd-9804-eb7b45e74315@h5g2000yqh.googlegroups.com>
NNTP-Posting-Host: 24.49.235.246
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1234484379 22182 127.0.0.1 (13 Feb 2009 00:19:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 13 Feb 2009 00:19:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h5g2000yqh.googlegroups.com; posting-host=24.49.235.246;
     posting-account=W_Bp5woAAACuGysMTRX4Go9z8rtaYKEO
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; fr; rv:1.9.0.5)
     Gecko/2008120122 Firefox/3.0.5,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1855

Hello all of you
I am in the process of completing the "power supply of my dream".
One of the problem i meet is the meetering.
I would like to use a digital voltmeter (those with red led). I
alwready use the LCD volmeter but i dont like them. They are way too
much sensitive to static, they dont really produce a bright display
and they dont seem to like to have volt on their input when they are
off.

Does anyone could point me to some kit for that purpose.
I have room on the face plate for two of them (5 cmx2cm)

I am not sure the second one for amp would be usefull. Amp change very
rapidly and maybe there is another way to measure them.

72/73 de Jean(VE2GHI)


From 3118735235523123810
X-Google-Thread: fc2a5,792b18619115bad
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!8c40745b!not-for-
mail
Reply-To: "Dale Parfitt" <parinc1@verizon.net>
From: "Dale Parfitt" <parinc1@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <a16c7bca-6ca8-40dd-9804-eb7b45e74315@h5g2000yqh.googlegroups.com>
Subject: Re: Looking for voltmeter kit
Lines: 26
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <Kd4ll.398$ac6.193@nwrddc02.gnilink.net>
Date: Fri, 13 Feb 2009 01:42:02 GMT
```

```
NNTP-Posting-Host: 72.71.108.90
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1234489322 72.71.108.90 (Thu, 12 Feb 2009 20:42:02
EST)
NNTP-Posting-Date: Thu, 12 Feb 2009 20:42:02 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:1856


"Jean" <ve2ghi@gmail.com> wrote in message
news:a16c7bca-6ca8-40dd-9804-eb7b45e74315@h5g2000yqh.googlegroups.com...
> Hello all of you
> I am in the process of completing the "power supply of my dream".
> One of the problem i meet is the meetering.
> I would like to use a digital voltmeter (those with red led). I
> alwready use the LCD volmeter but i dont like them. They are way too
> much sensitive to static, they dont really produce a bright display
> and they dont seem to like to have volt on their input when they are
> off.
>
> Does anyone could point me to some kit for that purpose.
> I have room on the face plate for two of them (5 cmx2cm)
>
> I am not sure the second one for amp would be usefull. Amp change very
> rapidly and maybe there is another way to measure them.
>
> 72/73 de Jean(VE2GHI)

Marlin P Jones in N Palm FL has what you need.
mpja.com  (?)

Dale W4OP





From 5482143163605164089
X-Google-Thread: 111d0a,9bc4c86cd7b74557,start
X-Google-Thread: fc2a5,9bc4c86cd7b74557,start
X-Google-Attributes: gid111d0a,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!r41g2000yqm.googlegroups.com!not-for-
mail
From: "bill.meara@gmail.com" <bill.meara@gmail.com>
Newsgroups: sci.electronics.basics,rec.radio.amateur.homebrew
Subject: SolderSmoke Podcast
Date: Sun, 15 Feb 2009 00:40:49 -0800 (PST)
Organization: http://groups.google.com
Lines: 39
Message-ID: <338ec41a-a924-4727-b08d-0e0581f27124@r41g2000yqm.googlegroups.com>
NNTP-Posting-Host: 83.103.40.160
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
```

```
X-Trace: posting.google.com 1234687249 24678 127.0.0.1 (15 Feb 2009 08:40:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 15 Feb 2009 08:40:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r41g2000yqm.googlegroups.com; posting-host=83.103.40.160;
     posting-account=ePxsiwkAAACeKyenV1cL73nSaGPyDy3Q
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.0.6)
     Gecko/2009011913 Firefox/3.0.6,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com sci.electronics.basics:14361
rec.radio.amateur.homebrew:1857
```

http://www.soldersmoke.com

http://soldersmoke.blogspot.com

Superbowl Sunday in Rome. "Playing for Pizza." Spirals on the Piazza
Empire of the Air -- Gerbils Renamed
"Electrons on Parade" Good RCA film about tubes
Minimalist Mania:
   ET-1/FETer transmitter built -- some problems
   New Minimalist Yahoo group
   AA1TJ and AA1MY make QRP History with tunnel diode rig
QRSS News:
   New beacons and grabbers in US and Canada
   K6HX and the lure of the whisperers
   Upside down FSK for VK/ZL observers?
Chip extraction tips (belated)
What "s.o.t." means.
MAILBAG:
Brad WA5PSA still jogging in Tulsa
Ted AJ8T and Paul VK5PH: Lake not named for Lee
Neil G7AQK HB mystery box
Doug WB5TKI on how to extract chips
Ron AA5RS advises Billy to stick with Linux
Bill AA0RQ uses the hard stuff
Sott on Heaviside: Good guy or not?
Brent in Twin Cities: SWL Rockmite and SS lead to ham radio
Dan NM5DV building SDR QRSS rig
Jeff K07M listens while flying private plane
John W6TC has great article for Electronic Design
Edwin WA4YHL: Amateur Logic TV #23 is available
Dale WA5DJJ on the possible benefits of upside down FSK
Eddie G3JZO: Upside down FSK looks like laundry on the line!
Jerry NR5A has the minimalist bug

For the podcast go to:
http://www.soldersmoke.com

For the new SolderSmoke Store:
http://www.cafepress.com/SolderSmoke

```
From 7466738520457079222
X-Google-Thread: fc2a5,ce6d2ff355f13fe8,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!postnews.google.com!g1g2000pra.googlegroups.com!not-for-
mail
From: karthikvceg@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Indcon
Date: Sun, 15 Feb 2009 12:11:22 -0800 (PST)
Organization: http://groups.google.com
Lines: 46
Message-ID: <b13ecf87-5493-43f1-9867-a0f875a571af@g1g2000pra.googlegroups.com>
NNTP-Posting-Host: 122.164.37.91
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1234728682 10231 127.0.0.1 (15 Feb 2009 20:11:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 15 Feb 2009 20:11:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g1g2000pra.googlegroups.com; posting-host=122.164.37.91;
     posting-account=Lu-9MwoAAACkhjipub2Y9-mkI3Y_CnVl
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.5)
     Gecko/2008120122 Firefox/3.0.5,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1858
```

INDCON =9209   March 12, 13 & 14

INDCON is flagship event of the Department of Industrial Engineering, Anna University, Chennai. Having its roots in the early 90=92s, INDCON has stood the test of time among the plethora of college symposiums. Among the usual events like paper presentations INDCON has always fostered innovation through events like PRODOMANIA, INNOVATE among others. This year it is being planned on a massive scale, with huge prize amount and a staggering number of events, the main focus being on having something for everyone who participates in the symposium. From the really technical events to the =91Letting your hair down=91 events like SHOWDOWN and events for the part-time students, we have made sure that no one is left out.

CONCLAVE =96 For the first time in INDIA a conclave of Industrial Engineers experts from all over the country will congregate at the IE CONCLAVE to share their thoughts on emerging IE trends. This event is expected to be a huge hit among the research scholars.

PRODAMANIA =96 Prodomania is design and present event which endeavors to challenge your designing skills to come up with new products /ideas and stimulates your creative ability in coming up with improvements for existing products.

INNOVATE =96 Combines =91Contraptions=92 with =91Rumble in the junk=92 will

surely set the adrenaline pumping in the hearts of its participants
and the viewers alike.

INDUSTRIAL STRATEGIST =96 For all you management geeks out there this is
THE event to be in.
An interesting array of Quizzes are also being lined up and the word
is going around that even die hard Quiz buffs are going to find these
ones a hard nut to crack.

Check out www.indcon.ieceg.in for more details.

List of events :
=95 Prodomania
=95 IE Conclave
=95 Industrial Strategist
=95 Paper presentation
=95 Innovate
=95 Biz quiz
=95 Quality quiz
=95 Math quiz
=95 Black Box

From -4807292687379484814
X-Google-Thread: fc2a5,73ce42603c6fe62b,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e18g2000yqo.googlegroups.com!not-for-mail
From: radio shack <cheesegrater87@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HUGE lot 37+ old transistor radios-KOYO PARROT-SONY 3F-85WA, EXPO '
70, many many more ! ALL FOR ONE PRICE !
Date: Tue, 17 Feb 2009 07:29:27 -0800 (PST)
Organization: http://groups.google.com
Lines: 1
Message-ID: <43c67eed-1612-4ff6-94e1-0fbc2b8fb7ab@e18g2000yqo.googlegroups.com>
NNTP-Posting-Host: 208.111.213.161
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1234884568 20840 127.0.0.1 (17 Feb 2009 15:29:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 17 Feb 2009 15:29:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e18g2000yqo.googlegroups.com; posting-host=208.111.213.161;
posting-account=uQvKgAoAAAAdZrWCA3sZO5dRZdp6k611
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x
4.90),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2156

http://cgi.ebay.com/ws/eBayISAPI.dll?

```
ViewItem&ssPageName=STRK:MESELX:IT&item=140300868459


From 791714920183880130
X-Google-Thread: fc2a5,a4faf611d5ee7b21,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s24g2000vbp.googlegroups.com!not-for-
mail
From: "Ross, NS7F" <rjtucke@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Transmitter filter relay switching?
Date: Tue, 17 Feb 2009 08:25:16 -0800 (PST)
Organization: http://groups.google.com
Lines: 23
Message-ID: <0e6dcccd-d955-4119-bfba-1de3d447bd49@s24g2000vbp.googlegroups.com>
NNTP-Posting-Host: 98.174.202.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1234887917 21648 127.0.0.1 (17 Feb 2009 16:25:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 17 Feb 2009 16:25:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s24g2000vbp.googlegroups.com; posting-host=98.174.202.120;
     posting-account=dcJvXgoAAABRlhSfOMmtMBXWf-dUgzU6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.6)
     Gecko/2009011913 Firefox/3.0.6,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1860

This is with regards to a medium-power (~50W) CW transmitter that I am
building for 40, 20, 15, & 10m. I would like to use relays to switch
the output filters, but have no idea what kind of relay I will need.
Dr Sabin mentioned that a high-quality relay is required (http://
www.google.com/url?url=3Dhttp://groups.google.com/g/d5a7ff03/t/3d5e036fddd0=
24eb/d/355b6c8e64361096%3Fhl%3Den%26ie%3DUTF-8%26oe%3Dutf-8%26q%3Dsabin%2Br=
elay%2Bband%2Bfilter%23355b6c8e64361096&ei=3Du-SaSdCSGIOU-wGVlcGnBQ&sa=3Dt&=
ct=3Dres&cd=3D1&source=3Dgroups&usg=3DAFQjCNHG7VKozzInElLsIi0baYXpyphcAw
) but I have been unable to find anything specific. Could anybody
please direct me to a resource that would help me answer this
question? Thank you very much.

For reference, the transmitter is a redesign of the classic '60s
"inexpensive 75W transmitter", originally by Lew McCoy (I believe),
one version of which can be found at (http://www.mines.uidaho.edu/
~glowbugs/inexpensive75wattxmitter.pdf ). It is a simple crystal-
controlled 6AG7 followed by an 807 amplifier at 75W input (<50W
output). The filters are from Ed Wetherhold's article- (available at
http://www.arrl.org/tis/info/pdf/9902044.pdf ) 7th order "Chebyshev
With Added Zero" to give better second harmonic attenuation.

Best regards,
```

Ross, NS7F

```
From -7992459499943228378
X-Google-Thread: fc2a5,792b18619115bad
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!r41g2000yqm.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for voltmeter kit
Date: Tue, 17 Feb 2009 09:05:56 -0800 (PST)
Organization: http://groups.google.com
Lines: 36
Message-ID: <04ea6c5d-ad16-45b4-b5b1-357581a7c517@r41g2000yqm.googlegroups.com>
References: <a16c7bca-6ca8-40dd-9804-eb7b45e74315@h5g2000yqh.googlegroups.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1234890357 7344 127.0.0.1 (17 Feb 2009 17:05:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 17 Feb 2009 17:05:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r41g2000yqm.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; GTB5;
     .NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2158
```

On Feb 12, 7:19=A0pm, Jean <ve2...@gmail.com> wrote:

> Hello all of you
> I am in the process of completing the "power supply of my dream".
> One of the problem i meet is the meetering.
> I would like to use a digital voltmeter (those with red led). I
> alwready use the LCD volmeter but i dont like them. They are way too
> much sensitive to static, they dont really produce a bright display
> and they dont seem to like to have volt on their input when they are
> off.

LCD displays may be more viewable than LED in sunlight.

LCD displays are available with backlights for use in dim environments.

There are both LCD and LED panel meters available but they use very similar chipsets so I'm not sure "too much sensitive to static" would be true for one but not the other.

> Does anyone could point me to some kit for that purpose.
> I have room on the face plate for two of them (5 cmx2cm)

Go to Digikey and search for "LED panel meter".

> I am not sure the second one for amp would be usefull. Amp change very
> rapidly and maybe there is another way to measure them.

For rapidly varying quantities nothing beats a good old analog meter.

For slowly changing quantities you need to know to 4 decimal places
nothing beats a digital meter.

Sometimes digital meters are supplemented with a bargraph type display
to show rapid changes graphically.

Tim N3QE

From -384075279214217678
X-Google-Thread: fc2a5,a4faf611d5ee7b21
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!v19g2000yqn.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transmitter filter relay switching?
Date: Tue, 17 Feb 2009 18:20:32 -0800 (PST)
Organization: http://groups.google.com
Lines: 28
Message-ID: <e944509a-baaa-4e09-97cc-afdcd4217ab3@v19g2000yqn.googlegroups.com>
References: <0e6dcccd-d955-4119-bfba-1de3d447bd49@s24g2000vbp.googlegroups.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1234923633 16915 127.0.0.1 (18 Feb 2009 02:20:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 18 Feb 2009 02:20:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v19g2000yqn.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2159

On Feb 17, 11:25=A0am, "Ross, NS7F" <rjtu...@gmail.com> wrote:
> This is with regards to a medium-power (~50W) CW transmitter that I am
> building for 40, 20, 15, & 10m. I would like to use relays to switch
> the output filters, but have no idea what kind of relay I will need.
> Dr Sabin mentioned that a high-quality relay is required (http://www.goog=
le.com/url?url=3Dhttp://groups.google.com/g/d5a7ff03/t/3d5e036f...
>) but I have been unable to find anything specific. Could anybody

```
> please direct me to a resource that would help me answer this
> question? Thank you very much.
>
> For reference, the transmitter is a redesign of the classic '60s
> "inexpensive 75W transmitter", originally by Lew McCoy (I believe),
> one version of which can be found at (http://www.mines.uidaho.edu/
> ~glowbugs/inexpensive75wattxmitter.pdf ). It is a simple crystal-
> controlled 6AG7 followed by an 807 amplifier at 75W input (<50W
> output). The filters are from Ed Wetherhold's article- (available athttp:=
//www.arrl.org/tis/info/pdf/9902044.pdf) 7th order "Chebyshev
> With Added Zero" to give better second harmonic attenuation.
>
> Best regards,
> Ross, NS7F

My friend used to do something similar at the antenna and using SPST
contacotrs that were used to switch an air conditioner compressor on
and off. Three of these could easily fit under a Pi-net coil. Ill try
to find picks and part numbers.

Jimmie



From 5585099380622704789
X-Google-Thread: fc2a5,862b32a0280f4314,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!newshub.sdsu.edu!
flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!flpi146.ffdc.sbc.com.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: AC/DC radio filter cap source?
Lines: 6
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <TOYml.13183$D32.1320@flpi146.ffdc.sbc.com>
NNTP-Posting-Host: 70.142.52.157
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi146.ffdc.sbc.com 1234983219 ST000 70.142.52.157 (Wed, 18 Feb 2009
13:53:39 EST)
NNTP-Posting-Date: Wed, 18 Feb 2009 13:53:39 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
[[OERYWDPZRORRDXN[O@_WH@YR_B@EXLLBWLOOAFMASJETAANVW[AKWZE\]^XQWIGNE_[EBL@^_\^JOCQ^
```

RSNVLGTFTKHTXHHP[NB_C@\SD@EP_[KCXX__AGDDEKGFNB\ZOKLRNCY_CGG[RHT_UN@C_BSY\G__IJIX_
PLSA[CCFAULEY\FL\VLGANTQQ]FN
Date: Wed, 18 Feb 2009 12:59:18 -0600
Xref: g2news1.google.com rec.radio.amateur.homebrew:1863

What's a good place to get some good ones, reasonable? I've got
several AA5 radios with hum and need to fix them. All my new old stock
capacitors are dry.
thanks
Hank wd5jfr

From -518229161226268656
X-Google-Thread: fc2a5,862b32a0280f4314
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!j8g2000yql.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: AC/DC radio filter cap source?
Date: Wed, 18 Feb 2009 11:39:30 -0800 (PST)
Organization: http://groups.google.com
Lines: 16
Message-ID: <12401983-61e0-493d-a4c8-fb428876f75c@j8g2000yql.googlegroups.com>
References: <TOYml.13183$D32.1320@flpi146.ffdc.sbc.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1234985970 15226 127.0.0.1 (18 Feb 2009 19:39:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 18 Feb 2009 19:39:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j8g2000yql.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1864

On Feb 18, 1:59=A0pm, "Henry Kolesnik" <koles...@nojunksbcglobal.net>
wrote:
> What's a good place to get some good ones, =A0reasonable? =A0I've got
> several AA5 radios with hum and need to fix them. =A0All my new old stock
> capacitors are dry.
> thanks
> Hank wd5jfr

Finding the multi- section caps may be impossible. A local parts
dealer had some long skinny caps I bundled 3 of them together with
heat shrink for a replacement.

They were at Slayton's in Charlotte NC. Parts like that come and go
there and they often dont know what they have unless its regular
stock. Its a great place to browse on Saturday mornings.

Jimmie

```
From -4726135422688320681
X-Google-Thread: fc2a5,862b32a0280f4314
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <TOYml.13183$D32.1320@flpi146.ffdc.sbc.com>
Subject: Re: AC/DC radio filter cap source?
Lines: 16
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <JDZml.163$tw4.97@nwrddc01.gnilink.net>
Date: Wed, 18 Feb 2009 19:50:01 GMT
NNTP-Posting-Host: 173.55.34.116
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1234986601 173.55.34.116 (Wed, 18 Feb 2009 14:50:01
EST)
NNTP-Posting-Date: Wed, 18 Feb 2009 14:50:01 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:1865
```

"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in message
news:TOYml.13183$D32.1320@flpi146.ffdc.sbc.com...

> What's a good place to get some good ones, reasonable? I've got
> several AA5 radios with hum and need to fix them. All my new old stock
> capacitors are dry.
> thanks
> Hank wd5jfr

Buy new ones. Small, fresh axial and pc mount 160 to 450v. I was surprised
how much smaller than the originals.

http://www.nteinc.com/

```
From -4648089951019552753
X-Google-Thread: fc2a5,862b32a0280f4314
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe09.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <TOYml.13183$D32.1320@flpi146.ffdc.sbc.com>
Subject: Re: AC/DC radio filter cap source?
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <l1_ml.13422$cI2.3581@newsfe09.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe09.iad 1234988241 68.229.77.6 (Wed, 18 Feb 2009 20:17:21 UTC)
NNTP-Posting-Date: Wed, 18 Feb 2009 20:17:21 UTC
Organization: Cox
Date: Wed, 18 Feb 2009 15:17:14 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:2163


"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in message
news:TOYml.13183$D32.1320@flpi146.ffdc.sbc.com...
> What's a good place to get some good ones,  reasonable?  I've got
> several AA5 radios with hum and need to fix them.  All my new old stock
> capacitors are dry.
> thanks
> Hank wd5jfr
>

Hank

Check www.dialcover.com.  Bill Turner makes look-alike
replacements in several values. They are good if you want
to keep the underchassis appearances. Otherwise, use
discrete axials.

Pete




From 6566922051561375444
X-Google-Thread: fc2a5,862b32a0280f4314
```

```
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!69.16.185.16.MISMATCH!
npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!post02.iad.highwinds-media.com!newsfe09.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <TOYml.13183$D32.1320@flpi146.ffdc.sbc.com>
<l1_ml.13422$cI2.3581@newsfe09.iad>
Subject: Re: AC/DC radio filter cap source?
Lines: 5
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <42_ml.13423$cI2.4642@newsfe09.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe09.iad 1234988288 68.229.77.6 (Wed, 18 Feb 2009 20:18:08 UTC)
NNTP-Posting-Date: Wed, 18 Feb 2009 20:18:08 UTC
Organization: Cox
Date: Wed, 18 Feb 2009 15:18:01 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:2164

http://www.dialcover.com/capacitors2.html

more to the point....




From -6593442529102764201
X-Google-Thread: fc2a5,6382ae51f4e49c58,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-
me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe09.iad.POSTED!
ac5b2f37!not-for-mail
From: "Joe L." <invalid@falseddress2004.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Norcal FCC-2 DDS kit
User-Agent: MT-NewsWatcher/3.4 (PPC Mac OS X)
Message-ID: <invalid-5B5802.14220618022009@free.teranews.com>
Lines: 12
X-Complaints-To: abuse@teranews.com
NNTP-Posting-Date: Wed, 18 Feb 2009 20:22:22 UTC
Organization: TeraNews.com
Date: Wed, 18 Feb 2009 14:22:21 -0600
Xref: g2news2.google.com rec.radio.amateur.homebrew:2165
```

Has anyone here ever built a RX or TX using the Norcal FCC-2 DDS kit?
I've just finished building the kit and it worked on the first try. I'm
planning to use it as the LO for a multi-band version of the KK7B R1
direct conversion receiver, then will probably add TX to it later. Just
wondering if anyone had any experiences with this kit that they'd like
to discuss. I'll post my findings here in the coming days or weeks.

Norcal did a nice job putting together the FCC-1 frequency counter kit
and FCC-2 DDS kit. Thanks Norcal!

73,
Joe K9LY

From -1672162371694806809
X-Google-Thread: fc2a5,862b32a0280f4314
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 18 Feb 2009 18:39:36 -0600
Date: Thu, 19 Feb 2009 00:39:34 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: AC/DC radio filter cap source?
References: <TOYml.13183$D32.1320@flpi146.ffdc.sbc.com>
In-Reply-To: <TOYml.13183$D32.1320@flpi146.ffdc.sbc.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <fKmdnTrq4qzVNwHUnZ2dnUVZ8u6dnZ2d@pipex.net>
Lines: 18
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 85.210.80.114
X-Trace: sv3-Xbp8ZG/
OCkU4N1kHm3TOeSsDTbK9ZKHRI+xNypNK9b00G9AQCatWfFCoU105iE0ODko23/KnHl9hncE!zL9E/
HaP1WZ9aIKlMXfx8LL4vUE3kkI5en2yqaJL5nJ07wOdtEsjr4ByBkA4OCAzKWdEvvm4c9Bn!
Xm+P5cf2lUqyRIinSUZdMXhxug==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1869

Henry Kolesnik wrote:
> What's a good place to get some good ones, reasonable? I've got
> several AA5 radios with hum and need to fix them. All my new old stock
> capacitors are dry.
> thanks

> Hank wd5jfr
>

===================================
Suggest you look for good electrolytic caps in scrap (not too old) PC SMPS units . I have removed quite a few of adequate capacitance and working voltage to be used in valve (tube) type radio ,assuming AA5 radios are of the tube variety.
When removed from scrap equipment , it is best to slowly cycle them (charge/discharge) a few times up to the stated working voltage .
If necessary test them in a real equivalent circuit and check ripple with a scope . A bit of work ,but imho a rewarding activity.

Frank   GM0CSZ / KN6WH

```
From 5326050397318600145
X-Google-Thread: fc2a5,495a862542f66e93,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!v39g2000yqm.googlegroups.com!not-for-
mail
From: tomcorker@googlemail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: 2m Bandpass Filter
Date: Thu, 19 Feb 2009 01:38:33 -0800 (PST)
Organization: http://groups.google.com
Lines: 18
Message-ID: <e779fe3d-653f-4b3f-af66-4b9f50a1a8d9@v39g2000yqm.googlegroups.com>
NNTP-Posting-Host: 90.198.118.6
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1235036316 16020 127.0.0.1 (19 Feb 2009 09:38:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 19 Feb 2009 09:38:36 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v39g2000yqm.googlegroups.com; posting-host=90.198.118.6;
     posting-account=rK_oxQoAAACa91KfohNpt5xGH5Ia-wkt
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.6;
     .NET CLR 2.0.50727; ffco7) Gecko/2009011913 Firefox/3.0.6,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2167
```

I recently acquired one of these cheap 2m handhelds from China, an FDC-150 I think. It's great for the price (=A330) apart from a problem with QRM.

I use the radio with a 3 element beam from SOTA activations from hill tops. It varies from location to location, but I often get strong intermodulation effects (caused by pagers I think). I suspect the radio, being wide band 136-174MHz, has insufficient filtering to reject these strong signals.

```
The intermod is a real problem, as I am often unable to hear stations,
or only get half of what they are saying before they are wiped out. I
was wondering about building a 2m bandpass filter like the one at
http://www.arrl.org/tis/info/pdf/0005054.pdf

Does this look like a good bet?
Also any ideas where I can get the semi-rigid coax (UT-141 or RG-402)
in the UK?



From -4927049562857176821
X-Google-Thread: fc2a5,495a862542f66e93
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Date: Thu, 19 Feb 2009 11:09:47 +0000
From: stev eh
<stevejhasdghsjhsdghjdghdghghghdhghgdgdhsgdsgdsgGDJHGJHSJHDGSJHGDJHGDJHGJH@TFIF.CO
.UK>
Reply-To:

stevejhasdghsjhsdghjdghdghghghdhghgdgdhsgdsgdsgGDJHGJHSJHDGSJHGDJHGDJHGJH@TFIF.CO.
UK
Organization: NOT A LOT
User-Agent: Thunderbird 2.0.0.19 (Windows/20081209)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2m Bandpass Filter
References: <e779fe3d-653f-4b3f-af66-4b9f50a1a8d9@v39g2000yqm.googlegroups.com>
In-Reply-To: <e779fe3d-653f-4b3f-af66-4b9f50a1a8d9@v39g2000yqm.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Message-ID: <499d3df8$1_2@mk-nntp-2.news.uk.tiscali.com>
Lines: 31
X-Original-NNTP-Posting-Host: 79.79.57.75
NNTP-Posting-Host: mk-nntp-2.news.uk.tiscali.com
X-Trace: 19 Feb 2009 11:09:47 GMT, mk-nntp-2.news.uk.tiscali.com
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
news.astraweb.com!border1.a.newsrouter.astraweb.com!tiscali!
newsfeed2.ip.tiscali.net!212.74.112.120.MISMATCH!mk-nntp-1.news.uk.tiscali.com!mk-
nntp-2.news.uk.tiscali.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:1871

tomcorker@googlemail.com wrote:
> I recently acquired one of these cheap 2m handhelds from China, an
> FDC-150 I think. It's great for the price (�30) apart from a problem
> with QRM.
>
> I use the radio with a 3 element beam from SOTA activations from hill
> tops. It varies from location to location, but I often get strong
> intermodulation effects (caused by pagers I think). I suspect the
> radio, being wide band 136-174MHz, has insufficient filtering to
> reject these strong signals.
>
```

> The intermod is a real problem, as I am often unable to hear stations,
> or only get half of what they are saying before they are wiped out. I
> was wondering about building a 2m bandpass filter like the one at
> http://www.arrl.org/tis/info/pdf/0005054.pdf
>
> Does this look like a good bet?
> Also any ideas where I can get the semi-rigid coax (UT-141 or RG-402)
> in the UK?

Try Westlake, if they don't have it they may point you in the right
direction.
http://whwestlake.110mb.com/

A simple helical filter as fitted to some of the early Japanese ham band
only sets may be a bit more compact and still have enough rejection of
out of band signals as most of the pagers in the UK are around 153 MHz.
I use one scavenged from a scrap Icom IC22 but most of the radios from
that era used them.

Steve H

From 3165126782748451149
X-Google-Thread: fc2a5,495a862542f66e93
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!p23g2000prp.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2m Bandpass Filter
Date: Thu, 19 Feb 2009 11:52:02 -0800 (PST)
Organization: http://groups.google.com
Lines: 43
Message-ID: <f699ac59-84c5-41b3-9306-dc826d043106@p23g2000prp.googlegroups.com>
References: <e779fe3d-653f-4b3f-af66-4b9f50a1a8d9@v39g2000yqm.googlegroups.com>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1235073122 9254 127.0.0.1 (19 Feb 2009 19:52:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 19 Feb 2009 19:52:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p23g2000prp.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.6)
     Gecko/2009011913 Firefox/3.0.6,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2169

On Feb 19, 1:38=A0am, tomcor...@googlemail.com wrote:
> I recently acquired one of these cheap 2m handhelds from China, an

> FDC-150 I think. It's great for the price (=A330) apart from a problem
> with QRM.
>
> I use the radio with a 3 element beam from SOTA activations from hill
> tops. It varies from location to location, but I often get strong
> intermodulation effects (caused by pagers I think). I suspect the
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>
> The intermod is a real problem, as I am often unable to hear stations,
> or only get half of what they are saying before they are wiped out. I
> was wondering about building a 2m bandpass filter like the one athttp://w=
ww.arrl.org/tis/info/pdf/0005054.pdf
>
> Does this look like a good bet?
> Also any ideas where I can get the semi-rigid coax (UT-141 or RG-402)
> in the UK?

This kinda agrees with what Steve posted...

First, if you want to build it, there's no reason you have to use semi-rigid. It should work fine with any reasonably low loss coax if you adjust for velocity factor variations from the design-specified coax.

But...if you have a way to tune an LC filter, you can make a more compact filter using coils and either explicit capacitors or the distributed capacitance as in a helical resonator. Using RG-59 size coax at 150MHz, you'll get resonators with an unloaded Q about 100 -- and it takes a piece of line about 40 cm long to do it. You can get well over twice the unloaded Q from a coil only about 6mm diameter and 6mm long. Higher unloaded Q allows you to build sharper filters and/or filters with lower insertion loss. Coaxial stub filters make sense--a lot of sense--at GHz and higher frequencies, but unless you want to use really large diameter resonators for something like a repeater duplexer that requires seriously high Qu, you're probably better off with an LC filter at 150MHz. If you don't have access to equipment to tune up a home-brew filter, use of a pre-tuned filter like the helical resonator Steve suggested is a good idea.

Cheers,
Tom

From 7756581378234903712
X-Google-Thread: fc2a5,495a862542f66e93
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!194.117.148.138.MISMATCH!pe2.news.blueyonder.co.uk!
blueyonder!cyclone01.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf02.ams.highwinds-media.com!newsfe04.ams2.POSTED!8bc1e37e!not-for-mail
From: Chris Jones <lugnut808@yahoo.com>
Subject: Re: 2m Bandpass Filter

Newsgroups: rec.radio.amateur.homebrew
References: <e779fe3d-653f-4b3f-af66-4b9f50a1a8d9@v39g2000yqm.googlegroups.com>
Lines: 25
User-Agent: KNode/0.10.9
MIME-Version: 1.0
Content-Type: text/plain; charset=utf-8
Content-Transfer-Encoding: 8Bit
Message-ID: <XLinl.7814$FN7.1847@newsfe04.ams2>
X-Complaints-To: abuse@WWWSpace.NET
NNTP-Posting-Date: Thu, 19 Feb 2009 19:52:23 UTC
Date: Thu, 19 Feb 2009 19:52:45 +0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:1873

tomcorker@googlemail.com wrote:

> I recently acquired one of these cheap 2m handhelds from China, an
> FDC-150 I think. It's great for the price (£30) apart from a problem
> with QRM.
>
> I use the radio with a 3 element beam from SOTA activations from hill
> tops. It varies from location to location, but I often get strong
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> reject these strong signals.
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> or only get half of what they are saying before they are wiped out. I
> was wondering about building a 2m bandpass filter like the one at
> http://www.arrl.org/tis/info/pdf/0005054.pdf
>
> Does this look like a good bet?
> Also any ideas where I can get the semi-rigid coax (UT-141 or RG-402)
> in the UK?

Farnell and RS if you only want a short length, or FC Lane if you want more,
but they are more used to dealing with business customers.

Chris

From -7508696114780124021
X-Google-Thread: fcc6e,ffbdd5df80ea6a80,start
X-Google-Thread: fc2a5,ffbdd5df80ea6a80,start
X-Google-Thread: 1109af,ffbdd5df80ea6a80,start
X-Google-Attributes: gidfcc6e,gidfc2a5,gid1109af,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
news.glorb.com!feed.cgocable.net!read2.cgocable.net.POSTED!53ab2750!not-for-mail
From: "Norm VE3CZI" <ve3czi@arrl.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.swap
Subject: FA: Omega Noise Bridge - - Eldico Antennascope
Lines: 9
X-Priority: 3

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Message-ID: <C0knl.16867$D9.9268@read2.cgocable.net>
Date: Thu, 19 Feb 2009 16:18:23 -0500
NNTP-Posting-Host: 24.141.81.109
X-Complaints-To: news@cogeco.net
X-Trace: read2.cgocable.net 1235078306 24.141.81.109 (Thu, 19 Feb 2009 16:18:26 EST)
NNTP-Posting-Date: Thu, 19 Feb 2009 16:18:26 EST
Organization: Cogeco Cable
Xref: g2news1.google.com rec.radio.amateur.antenna:8251 rec.radio.amateur.homebrew:1874 rec.radio.swap:1300

Omega Noise Bridge
http://cgi.ebay.ca/ws/eBayISAPI.dll?ViewItem&ssPageName=STRK:MESELX:IT&item=320341958440

Eldico Antique Antennascope
http://cgi.ebay.ca/ANTENNASCOPE-MODEL-AT-1-MFR-Eldico_W0QQitemZ320342097215QQcmdZViewItemQQptZVintage_Electronics_R2?hash=item320342097215&_trksid=p3911.c0.m14&_trkparms=72%3A1215%7C66%3A2%7C65%3A12%7C39%3A1%7C240%3A1318

Tnx for looking....Norm VE3CZI

From -2139975471932665320
X-Google-Thread: fc2a5,495a862542f66e93
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!o11g2000yql.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2m Bandpass Filter
Date: Thu, 19 Feb 2009 15:43:04 -0800 (PST)
Organization: http://groups.google.com
Lines: 27
Message-ID: <850bef7a-e7b6-4671-9a72-cc90e7c63caf@o11g2000yql.googlegroups.com>
References: <e779fe3d-653f-4b3f-af66-4b9f50a1a8d9@v39g2000yqm.googlegroups.com>
NNTP-Posting-Host: 165.254.211.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1235086985 21302 127.0.0.1 (19 Feb 2009 23:43:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 19 Feb 2009 23:43:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o11g2000yql.googlegroups.com; posting-host=165.254.211.4;

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     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2172

On Feb 19, 4:38=A0am, tomcor...@googlemail.com wrote:
> I recently acquired one of these cheap 2m handhelds from China, an
> FDC-150 I think. It's great for the price (=A330) apart from a problem
> with QRM.
>
> I use the radio with a 3 element beam from SOTA activations from hill
> tops. It varies from location to location, but I often get strong
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> was wondering about building a 2m bandpass filter like the one athttp://w=
ww.arrl.org/tis/info/pdf/0005054.pdf
>
> Does this look like a good bet?
> Also any ideas where I can get the semi-rigid coax (UT-141 or RG-402)
> in the UK?

If you are right about it being from a paging system the problem may
have nothing to do with the quality of radio you have. I have
experienced the same thing with a cavity filter on the front end of a
rx. Often the problem is with the pager transmiter. In that case no
amount of filtering will help.

Jimmie


From 6997688085122548923
X-Google-Thread: fc2a5,792b18619115bad
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!a12g2000yqm.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for voltmeter kit
Date: Thu, 19 Feb 2009 17:28:17 -0800 (PST)
Organization: http://groups.google.com
Lines: 22
Message-ID: <fa045f76-a2f4-4956-8ab3-86a9c2f9e118@a12g2000yqm.googlegroups.com>
References: <a16c7bca-6ca8-40dd-9804-eb7b45e74315@h5g2000yqh.googlegroups.com>
NNTP-Posting-Host: 76.232.148.162
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
```

```
X-Trace: posting.google.com 1235093297 6139 127.0.0.1 (20 Feb 2009 01:28:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 20 Feb 2009 01:28:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a12g2000yqm.googlegroups.com; posting-host=76.232.148.162;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.6)
     Gecko/2009011913 Firefox/3.0.6,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1876

On Feb 12, 7:19=A0pm, Jean <ve2...@gmail.com> wrote:
> Hello all of you
> I am in the process of completing the "power supply of my dream".
> One of the problem i meet is the meetering.
> I would like to use a digital voltmeter (those with red led). I
> alwready use the LCD volmeter but i dont like them. They are way too
> much sensitive to static,

Hey OM
I don't think it's all about static per say. But the high input
impedance you have to worry about I seen those things going up to 200
meg input, just looking at it would change the potential across a 200
meg input.
There's other cons about LCD like if it gets cold forget it, those
liquid crystals just don't want to do their thing, when exposed to the
energizing electric field at low temps. Sure you can get back lite
LCD's but what happens when the back lite burns out?
I like LED displays but even then you are going to want to swamp down
the meter input with like 1000 ohms.

73 OM
de n8zu


From 4964093198035665477
X-Google-Thread: fc2a5,495a862542f66e93
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <e779fe3d-653f-4b3f-af66-4b9f50a1a8d9@v39g2000yqm.googlegroups.com>
<850bef7a-e7b6-4671-9a72-cc90e7c63caf@o11g2000yql.googlegroups.com>
Subject: Re: 2m Bandpass Filter
Lines: 55
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
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Content-Transfer-Encoding: 8bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <DSnnl.470$tw4.380@nwrddc01.gnilink.net>
Date: Fri, 20 Feb 2009 01:40:51 GMT
NNTP-Posting-Host: 96.229.49.177
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1235094051 96.229.49.177 (Thu, 19 Feb 2009 20:40:51 EST)
NNTP-Posting-Date: Thu, 19 Feb 2009 20:40:51 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:2174

"JIMMIE" <jimmie68@gmail.com> wrote in message
news:850bef7a-e7b6-4671-9a72-cc90e7c63caf@o11g2000yql.googlegroups.com...
On Feb 19, 4:38 am, tomcor...@googlemail.com wrote:
> I recently acquired one of these cheap 2m handhelds from China, an
> FDC-150 I think. It's great for the price (�30) apart from a problem
> with QRM.
>
> I use the radio with a 3 element beam from SOTA activations from hill
> tops. It varies from location to location, but I often get strong
> intermodulation effects (caused by pagers I think). I suspect the
> radio, being wide band 136-174MHz, has insufficient filtering to
> reject these strong signals.
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> The intermod is a real problem, as I am often unable to hear stations,
> or only get half of what they are saying before they are wiped out. I
> was wondering about building a 2m bandpass filter like the one
athttp://www.arrl.org/tis/info/pdf/0005054.pdf
>
> Does this look like a good bet?
> Also any ideas where I can get the semi-rigid coax (UT-141 or RG-402)
> in the UK?

>>If you are right about it being from a paging system the problem may have nothing to do with the quality of radio you have. I have experienced the same thing with a cavity filter on the front end of a rx. Often the problem is with the pager transmiter. In that case no amount of filtering will help.

>>Jimmie

Sad but true. A cavity the size of a backpack might only give you 30db of rejection, but you might need more than 60db of rejection and you could never get that without putting the radio in a sealed di-cast box with bypassed power and audio. It would certainly be better though to start with a RX module with some isolation. The fact is, that scanners and cheap HT's might be rated at -40 db to -60 db of alternate channel rejection and get blasted by everything on the mountain as well as everything on every other mountain within 20 miles too!   This is only a published spec. and doesn't really tell you how much actual signal will result in overload of your RX deck to cause Desense, nor does it guarantee that something else won't cause a mix that falls right on the frequency you want to hear!

Or you could start with a top notch commercial RX deck with -90 db or better and hope you can work on that.

If your problem is -only- paging TX, say 1000 WERP or +60dbm and you can stand right under the tower (for maximum vertical separation) you might have at least reduced the energy at your antenna to 0 dbm but more likely +20 dbm. Now you will have to notch out the offender by 140 db more to render it truly invisible. Rotsa ruck, but if you had a radio with a 5 pole helical resonator and Hi level mixer, you would be certainly better than with a scanner, which would be like sending a baby in to fight the fires in the Twin Towers.

```
From -2443069398194714008
X-Google-Thread: fc2a5,495a862542f66e93
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe10.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <e779fe3d-653f-4b3f-af66-4b9f50a1a8d9@v39g2000yqm.googlegroups.com>
<850bef7a-e7b6-4671-9a72-cc90e7c63caf@o11g2000yql.googlegroups.com>
<DSnnl.470$tw4.380@nwrddc01.gnilink.net>
Subject: Re: 2m Bandpass Filter
Lines: 74
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <3bonl.35433$qt3.917@newsfe10.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe10.iad 1235095359 68.229.77.6 (Fri, 20 Feb 2009 02:02:39 UTC)
NNTP-Posting-Date: Fri, 20 Feb 2009 02:02:39 UTC
Organization: Cox
Date: Thu, 19 Feb 2009 21:02:30 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1878
```

"JB" <nospam@goofball.net> wrote in message
news:DSnnl.470$tw4.380@nwrddc01.gnilink.net...

>
> "JIMMIE" <jimmie68@gmail.com> wrote in message
> news:850bef7a-e7b6-4671-9a72-cc90e7c63caf@o11g2000yql.googlegroups.com...
> On Feb 19, 4:38 am, tomcor...@googlemail.com wrote:

```
>> I recently acquired one of these cheap 2m handhelds from China, an
>> FDC-150 I think. It's great for the price (�30) apart from a problem
>> with QRM.
>>
>> I use the radio with a 3 element beam from SOTA activations from hill
>> tops. It varies from location to location, but I often get strong
>> intermodulation effects (caused by pagers I think). I suspect the
>> radio, being wide band 136-174MHz, has insufficient filtering to
>> reject these strong signals.
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>> The intermod is a real problem, as I am often unable to hear stations,
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> athttp://www.arrl.org/tis/info/pdf/0005054.pdf
>>
>> Does this look like a good bet?
>> Also any ideas where I can get the semi-rigid coax (UT-141 or RG-402)
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>
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> have nothing to do with the quality of radio you have. I have
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> amount of filtering will help.
>
>>>Jimmie
>
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> mountain within 20 miles too!   This is only a published spec. and doesn't
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> deck to cause Desense, nor does it guarantee that something else won't
> cause
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>
> Or you could start with a top notch commercial RX deck with -90 db or
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> and hope you can work on that.
>
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> have
> at least reduced the energy at your antenna to 0 dbm but more likely +20
> dbm.  Now you will have to notch out the offender by 140 db more to render
> it truly invisible.  Rotsa ruck, but if you had a radio with a 5 pole
> helical resonator and Hi level mixer, you would be certainly better than
```

> with a scanner, which would be like sending a baby in to fight the fires
> in
> the Twin Towers.
>

If the interference is the result of a third order IMD product,
each 3 dB of rejection will yield a 9 dB improvement in the
third order intercept point.

A modest filter might yield surprising results, it isn't a linear
relationship.

Pete k1zjh

From 5082625133950914777
X-Google-Thread: fc2a5,862b32a0280f4314
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feed.news.qwest.net!mpls-nntp-07.inet.qwest.net!news.qwest.net!not-for-mail
Date: Thu, 19 Feb 2009 18:54:02 -0800
From: PhattyMo <phattymo@not.net>
User-Agent: Thunderbird 2.0.0.19 (Windows/20081209)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: AC/DC radio filter cap source?
References: <TOYml.13183$D32.1320@flpi146.ffdc.sbc.com>
In-Reply-To: <TOYml.13183$D32.1320@flpi146.ffdc.sbc.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 12
Message-ID: <499e1b39$0$89386$815e3792@news.qwest.net>
Organization: Qwest Communications Corporation
NNTP-Posting-Host: f7c8d808.news.qwest.net
X-Trace:
DXC=VTfI6HRoC2^NiJg=d3Bfe\F85SKJoGf>Tm_BVX^4EjPHfQ1a503Y0\F85SKJoGf>T4W_Jl68_91\jcJbE@D9BA\5\=Q\0jL3M^
X-Complaints-To: news@qwest.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:2176

Henry Kolesnik wrote:
> What's a good place to get some good ones, reasonable? I've got
> several AA5 radios with hum and need to fix them. All my new old stock
> capacitors are dry.
> thanks
> Hank wd5jfr
>

There's places like
www.triodeelectronics.com

```
From 5526235973098643051
X-Google-Thread: fc2a5,495a862542f66e93
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.eclipse.net.uk!news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 20 Feb 2009 03:01:38 -0600
Message-ID: <Uig$wxI1AnnJFAnc@ifwtech.co.uk>
Date: Fri, 20 Feb 2009 08:56:21 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2m Bandpass Filter
References: <e779fe3d-653f-4b3f-af66-4b9f50a1a8d9@v39g2000yqm.googlegroups.com>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=iso-8859-1;format=flowed
Content-Transfer-Encoding: 8bit
User-Agent: Turnpike/6.05-M (<5i6kzDhxO5sCRFKkOh0HHcuw$V>)
Lines: 60
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 91.84.209.172
X-Trace:
sv3-9Iq2dxFyJyz3q4eBPNiXEz921qYnChdnzNZNHnas2LrIOfeUpvVqNf943s46QlvtguFFkMWqsDeYj/
K!0b2/FMJ2dtSAeBKA6pBrjCCalHpRVN3dlkc9ITDAJaytNHDdRNpiie/TwMYa4vZh977sr4Ztlw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2177

tomcorker@googlemail.com wrote:
>I recently acquired one of these cheap 2m handhelds from China, an
>FDC-150 I think. It's great for the price (�30) apart from a problem
>with QRM.
>
>I use the radio with a 3 element beam from SOTA activations from hill
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>http://www.arrl.org/tis/info/pdf/0005054.pdf
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>Does this look like a good bet?
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```

>in the UK?

Might have just what you need... it's somewhere in the back of the mind...

Some years ago John Regnault G4SWX was experimenting with various kinds of filters using coaxial stubs. Many of the most useful ones were published in Radcom and found their way onto my 'In Practice' website:

http://tinyurl.com/g4swxfilters

One of John's ideas was a filter with notches just above and below the 2m band, specifically to knock down the strong carriers from pagers. It only needs two pieces of coax and two small trimmers.

The idea starts with an open-circuit quarter wave stub which is produces a notch on the pager frequency, above or below the 2m band. To make it field tunable, the stub is cut a little short and a small trimmer inserted in series with the hot end. The only problem is that such a stub will produce a mismatch at 145MHz: a stub that is resonant above the band will appear capacitive at 145MHz, while a stub resonant below the band will appear inductive.

These reactances can be compensated by a shunt inductor or capacitor, but G4SWX's bright idea was always to use *both* stubs - regardless of where the pagers are - and let them compensate each other.

Some work with an optimizer was needed to produce the best design, which proved to be quite tolerant of practical variations. We had an article almost ready for publication since 2002, but didn't go ahead because it seemed like "a solution waiting for a problem" - until this week.

A copy has been e-mailed to the OP, and if it works for him we will publish it.

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From 7032506304071265743
X-Google-Thread: fc2a5,495a862542f66e93
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 20 Feb 2009 05:40:22 -0600
Date: Fri, 20 Feb 2009 11:40:21 +0000

From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2m Bandpass Filter
References: <e779fe3d-653f-4b3f-af66-4b9f50a1a8d9@v39g2000yqm.googlegroups.com>
<Uig$wxI1AnnJFAnc@ifwtech.co.uk>
In-Reply-To: <Uig$wxI1AnnJFAnc@ifwtech.co.uk>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <EvednX1S8Y07CwPUnZ2dnUVZ8v-WnZ2d@pipex.net>
Lines: 31
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 85.210.80.114
X-Trace: sv3-Dd4dj6Kl7ro9j+
+O08tHfczwc0upZnmr1tZjxJe4jNzXXDq115ajUYmyitJCloqGMZMhzV0VKgAavN/!
WtgpQduBrb6JoZOiolk182ZGwmECh5BmDBIGOI9LiDtmtSLY4xKfojC3X227PxeIGHNVO0OxrYDz!
E97KTl0YFOq3UN6n6N70cAiO9w==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1881

Ian White GM3SEK wrote:

> snip

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> These reactances can be compensated by a shunt inductor or capacitor,
> but G4SWX's bright idea was always to use *both* stubs - regardless of
> where the pagers are - and let them compensate each other.

================================

Tnx Ian for the very useful info.

Frank GM0CSZ / KN6WH

```
From 3158055032714007320
X-Google-Thread: fc2a5,495a862542f66e93
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!f20g2000yqg.googlegroups.com!not-for-
mail
From: tomcorker@googlemail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2m Bandpass Filter
Date: Fri, 20 Feb 2009 03:53:24 -0800 (PST)
Organization: http://groups.google.com
Lines: 49
Message-ID: <b5273617-3b46-42fa-a765-93021b8c8392@f20g2000yqg.googlegroups.com>
References: <e779fe3d-653f-4b3f-af66-4b9f50a1a8d9@v39g2000yqm.googlegroups.com>
     <Uig$wxI1AnnJFAnc@ifwtech.co.uk>
NNTP-Posting-Host: 90.195.205.82
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1235130804 29365 127.0.0.1 (20 Feb 2009 11:53:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 20 Feb 2009 11:53:24 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f20g2000yqg.googlegroups.com; posting-host=90.195.205.82;
     posting-account=rK_oxQoAAACa91KfohNpt5xGH5Ia-wkt
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-GB; rv:1.9.0.3)
     Gecko/2008101315 Ubuntu/8.10 (intrepid) Firefox/3.0.3,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1882
```

On Feb 20, 8:56=A0am, Ian White GM3SEK <gm3...@ifwtech.co.uk> wrote:

>
> Might have just what you need... it's somewhere in the back of the
> mind...
>
> Some years ago John Regnault G4SWX was experimenting with various kinds
> of filters using coaxial stubs. Many of the most useful ones were
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> seemed like "a solution waiting for a problem" - until this week.
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> A copy has been e-mailed to the OP, and if it works for him we will
> publish it.
>
> --
>
> 73 from Ian GM3SEK =A0 =A0 =A0 =A0 'In Practice' columnist for RadCom (RS=
GB)http://www.ifwtech.co.uk/g3sek

Thanks for the advice everyone has given.

I've decided to give Ian's solution a try when I get the relevant
lengths of coax and trimmers in a week or so.

I'll report back when I've built it.

73s de 2E0WNT

From 5387773378914229848
X-Google-Thread: fc2a5,862b32a0280f4314
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!c12g2000yqj.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: AC/DC radio filter cap source?
Date: Fri, 20 Feb 2009 06:30:44 -0800 (PST)
Organization: http://groups.google.com
Lines: 39
Message-ID: <0a1bc2ac-97e0-487c-9ba4-da3596ae9b87@c12g2000yqj.googlegroups.com>
References: <TOYml.13183$D32.1320@flpi146.ffdc.sbc.com>
NNTP-Posting-Host: 76.232.148.162
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1235140244 28835 127.0.0.1 (20 Feb 2009 14:30:44 GMT)

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 20 Feb 2009 14:30:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c12g2000yqj.googlegroups.com; posting-host=76.232.148.162;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.6)
     Gecko/2009011913 Firefox/3.0.6,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1883

On Feb 18, 1:59=A0pm, "Henry Kolesnik" <koles...@nojunksbcglobal.net>
wrote:
> What's a good place to get some good ones, =A0reasonable? =A0I've got
> several AA5 radios with hum and need to fix them. =A0All my new old stock
> capacitors are dry.
> thanks
> Hank wd5jfr

Hey OM.
I used to make a living selling Mallory capacitors. Mallory came out
with a book called the Bird's and Bee's of electrolytic capacitors.
Well the electrolyte in these capacitors does dry out, but not from
sitting around in room temps. The electrolyte dries up from discharge
and charge, each time of a charge or discharge cycle the electrolyte
breaks down, into gas, that's why they have to be vented, or they
would explode. The electrolyte also dries up if you heat them up. In
the old days they used a lot of electrolyte.

So why don't they have capacity? The electrolyte in old style
capacitors has lots of room in between the plates and seperators, and
with time the electrolyte settles via gravity, At this point the
plates are no longer fully covered with electrolyte so the capacity
goes down the crapper.

>When removed from scrap equipment , it is best to slowly cycle them
>(charge/discharge) a few times  up to the stated working voltage .
>If necessary test them in a real equivalent circuit and check ripple
>with a scope .  A bit of work ,but imho a rewarding activity.

>Frank   GM0CSZ / KN6WH

^Is right for the most part, the key really is to ramp the voltage.
from 0 to full rated WVDC, up slowly, real real real slow, like days
to a week, this will wick the electrolyte back up on the plates and
once again the capacitor will be usable. So a NOS capacitor off the
self at room temp can be brought back from the grave

73 OM
de n8zu


From 4091960218033267940
X-Google-Thread: fc2a5,495a862542f66e93
```

X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <e779fe3d-653f-4b3f-af66-4b9f50a1a8d9@v39g2000yqm.googlegroups.com> <850bef7a-e7b6-4671-9a72-cc90e7c63caf@o11g2000yql.googlegroups.com> <DSnnl.470$tw4.380@nwrddc01.gnilink.net> <3bonl.35433$qt3.917@newsfe10.iad>
Subject: Re: 2m Bandpass Filter
Lines: 28
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <IFBnl.574$tw4.235@nwrddc01.gnilink.net>
Date: Fri, 20 Feb 2009 17:22:48 GMT
NNTP-Posting-Host: 173.55.68.37
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1235150568 173.55.68.37 (Fri, 20 Feb 2009 12:22:48 EST)
NNTP-Posting-Date: Fri, 20 Feb 2009 12:22:48 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:2181

> If the interference is the result of a third order IMD product,
> each 3 dB of rejection will yield a 9 dB improvement in the
> third order intercept point.
>
> A modest filter might yield surprising results, it isn't a linear
> relationship.
>
> Pete k1zjh

"Surprising results" in a lab maybe. Still far short of real. An attenuator would tell you how much you really need. I used to use an HT with a dummy load instead of an antenna from Mt. Wilson to be able to talk into a box on Santiago Pk.   Otherwise the HT couldn't even hear 500 WERP on-channel from the tower I could see with my own eyes. Be aware that you might only have 30 to 60 db of bolt on attenuation before case or cable leakage takes over.

I used an Alinco 2m HT with a two section helical resonator outboard (most portable solution). There was 3 db of insertion loss and 20 db of rejection outside of a 3 Mhz window. This was a packet radio and resulted in a 10db improvement in performance on-channel, but this was a home station on a 6db stick 20 ft in the air. Would have been far short on a mountain though. I aslo used that combination for T-Hunting in addition to a fixed 60db pad and a switched 20/20/10db pad with double shielded coax and 4 el. Quad. My best solutions was to find places to listen from that were shielded from the major mountain tops.

```
From -2464933290958589258
X-Google-Thread: fc2a5,c022b489567f3664
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!24dd0da6!not-for-
mail
Sender: Jim Pennino <jimp@mail.specsol.com>
Message-ID: <pldd26-4h4.ln1@mail.specsol.com>
From: jimp@specsol.spam.sux.com
Subject: Re: capacitor
Newsgroups: rec.radio.amateur.homebrew
References: <fce61c84-61f5-4a61-b899-829cf3f82deb@u18g2000pro.googlegroups.com>
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (SunOS/5.10 (i86pc))
Lines: 11
Date: Thu, 25 Dec 2008 22:30:00 GMT
NNTP-Posting-Host: 71.118.11.57
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1230244200 71.118.11.57 (Thu, 25 Dec 2008 17:30:00
EST)
NNTP-Posting-Date: Thu, 25 Dec 2008 17:30:00 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:1930
```

swapu <swapna_kolluru@yahoo.com> wrote:

Yet another attempt to get traffic at his web site.

This twit has been spamming the physics groups with similar nonsense.

--
Jim Pennino

Remove .spam.sux to reply.

```
From -9150934278157189262
X-Google-Thread: fc2a5,d20a0bf6c6d96187
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 25 Dec 2008 17:19:14 -0600
```

From: Tim Wescott <tim@justseemywebsite.com>
Subject: Re: Directly heated tube, cathode bias
Newsgroups: rec.radio.amateur.homebrew
References: <giupbk0gnv@news3.newsguy.com>
    <JOKdndxVR-3GuM7UnZ2dnUVZ_hOdnZ2d@web-ster.com>
    <t7O4l.13126$UI2.1453@bignews6.bellsouth.net>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <_f2dnQI3I4FvicnUnZ2dnUVZ_j-dnZ2d@web-ster.com>
Date: Thu, 25 Dec 2008 17:19:14 -0600
Lines: 51
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-zO8MWXELM7m8Z3WH/L63RQlC8bjTwvx/7Va98mMw6LghwXV89qtz/
vrIgG8Duo5IyXecXDlsVUsUV3Q!WEfnjt7cZy+DOsI2J9b4e5ceNtWl+azu7cTxIvVmehTI6jBq/
XxPxjIGqGRp7eWi/OxxGnZ6S5IZ!VK+ZcMyTErJviFY=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1634

On Thu, 25 Dec 2008 11:03:48 -0500, ken scharf wrote:

> Tim Wescott wrote:
>> Bill M wrote:
>>> I'm a little confused again.
>>>
>>> Setting up a 1624 tube for cathode biasing and also need to create a
>>> center tap for keying to ground.
>>>
>>> The book says 610 ohms at my voltage. So would I use a pair of 1200
>>> ohm resistors in this case?
>>>
>>> My logic is since there is not a separate cathode then the two R in
>>> parallel would raise the filament 'cathode' 600 ohms above B-minus.
>>>
>>> TIA and Merry Christmas,
>>>
>>> Bill
>>
>> (Disclaimer -- I haven't done this. It's just knowledge gotten from
>> lots of books, and lots of solid-state circuit design experience).
>>
>> No, because all the filament voltage will go to mildly heating up the
>> resistors, and none will go to wildly heating up the filament.
>>
>> Use a center-tapped filament transformer, and put the 600 ohm resistor
>> between its center tap and ground. If necessary, use a separate
>> transformer just for the 1624s.
>>
> If his un-centertapped filament winding is ONLY supplying that one tube

> and he has each leg going to ground through a 1200 ohm resistor that
> would result in a 600 ohm connection to ground. So it should work.
> Remember that's 2400 ohms across the filament, it won't suck up much
> heater current at all.

Sorry. I was visualizing the 1200 ohms each in series with the transformer, whose center tap is grounded.

Of course the alternate way makes perfect sense.

And here it is too late to ask Santa for more brains for Christmas.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From 7812188922319915723
X-Google-Thread: fc2a5,d20a0bf6c6d96187
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe22.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <giupbk0gnv@news3.newsguy.com>
<1f42d213-5a49-4d5e-8ad3-8ba7a03036e0@k36g2000pri.googlegroups.com>
<6b6bec9f-9cc4-40cc-b043-d213c606ff92@z28g2000prd.googlegroups.com>
<h4R4l.13210$UI2.4658@bignews6.bellsouth.net>
Subject: Re: Directly heated tube, cathode bias
Lines: 47
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <LFW4l.177$em5.61@newsfe22.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe22.iad 1230255851 68.229.77.6 (Fri, 26 Dec 2008 01:44:11 UTC)
NNTP-Posting-Date: Fri, 26 Dec 2008 01:44:11 UTC
Organization: Cox
Date: Thu, 25 Dec 2008 20:44:08 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1635
```

```
"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:h4R4l.13210$UI2.4658@bignews6.bellsouth.net...
> raypsi wrote:
>> On Dec 25, 12:46 pm, raypsi <RBorow...@gmail.com> wrote:
>>> On Dec 24, 8:58 pm, Bill M <radioex...@geemail.com> wrote:
>>>
>>>> I'm a little confused again.
>>>> Setting up a 1624 tube for cathode biasing and also need to create a
>>>> center tap for keying to ground.
>>>> The book says 610 ohms at my voltage.  So would I use a pair of 1200
>>>> ohm
>>>> resistors in this case?
>>>> My logic is since there is not a separate cathode then the two R in
>>>> parallel would raise the filament 'cathode' 600 ohms above B-minus.
>>>> TIA and Merry Christmas,
>>>> Bill
>>> hey OM:
>>>
>>> Exactly and you will need at least 10 watts of resistors to be safe.
>>> Because they also will have to handle plate, grid1, grid2, and the
>>> current they draw across the filament. I suppose if they where wire
>>> wound like 25 watt you could stick a ferrite rod in their hole and
>>> make them your filament chokes also. But if you use carbon comp
>>> resistors then part of your drive will go heating those resistors, so
>>> not much gain going on there.
>>>
>>> 73 OM
>>> n8zu
>>
>> Well they ain't filament chokes, but in the drive circuit the drive
>> signal won't go to heating them up if they are chokes. So they will
>> only be taking about 1 mil of current from the filament circuit.
>>
>> 73
>> n8zu
> One possible problem.  If this is an RF amplifier circuit you probably
> want to use NON-INDUCTIVE resistors in the circuit or they WILL act as
> chokes!

Would that make a difference?  I'd also assume there's two RF cathode
bypass caps in there; otherwise the circuit would be extremely
degenerative.

Pete





From -8043291930641543508
X-Google-Thread: fc2a5,f8aacb18f2367a53
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!v42g2000yqj.googlegroups.com!not-for-
```

```
mail
From: fazamy <fazamy@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Rig Response 3 , expected 38
Date: Fri, 26 Dec 2008 08:57:54 -0800 (PST)
Organization: http://groups.google.com
Lines: 115
Message-ID: <17f4ebde-58e1-4617-b0e2-fb790612188a@v42g2000yqj.googlegroups.com>
References: <9f8a03d9-db46-441f-aece-75c28afe3400@e3g2000vbe.googlegroups.com>
     <Pine.NEB.4.64.0812221626260.7004@sdf.lonestar.org> <slrngl03uu.mos.bit-
bucket@shell.config.com>
     <01a6435a-977f-4791-843c-b4eaac39ab6f@i24g2000prf.googlegroups.com>
NNTP-Posting-Host: 68.195.72.29
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1230310674 5431 127.0.0.1 (26 Dec 2008 16:57:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Dec 2008 16:57:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v42g2000yqj.googlegroups.com; posting-host=68.195.72.29;
     posting-account=fhjp8woAAACjooYbCZGv8loJZMngOnKX
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.5)
     Gecko/2008120122 Firefox/3.0.5,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1933

On Dec 25, 1:36=A0pm, raypsi <RBorow...@gmail.com> wrote:
> On Dec 22, 5:08 pm, Allodoxaphobia <bit-buc...@config.com> wrote:
>
>
>
> > On Mon, 22 Dec 2008 16:34:26 +0000, Stray Dog wrote:
> > > On Sun, 21 Dec 2008, fazamy wrote:
>
> > >> Date: Sun, 21 Dec 2008 21:32:55 -0800 (PST)
> > >> From: fazamy <faz...@aol.com>
> > >> Newsgroups: rec.radio.amateur.homebrew
> > >> Subject: Rig Response 3 , expected 38
>
> > >> I've posted this on the =A0XmLog group without a response explaining=
 the
> > >> meaning of this message: =A0"Rig Response 3 , expected 38." Attempti=
ng
> > >> to configure a so-called virtual com port from a freeware program so
> > >> that I can run that log software on a discrete port, I get that
> > >> message. =A0What is 3? =A0And if 38 is the optimal figure, how do I =
get to
> > >> 38?
>
> > >> Is there nyone in this group who can explain this?
>
> > > It would help if you listed critical details like:
```

>
> > > 1. what is the name of the application.
> > > 2. its version number.
> > > 3. whether the documentation specifies what kind of operating system =
it
> > > =A0 =A0needs, what kind of hardware is a pre-requisit. And, whether t=
here
> > > =A0 =A0is a "readme" file with description of issues.
> > > 4. what OS you actually are using.
> > > 5. whether you attempted to contact the source of the software for an
> > > =A0 =A0answer.
> > > 6. whether the com port is specifiable from the software.
> > > 7. does the com port hardware actually exist and correspond to what i=
s
> > > =A0 =A0configurable from the software.
> > > 8. and out of curiosity, what is supposed to go in or out of the com =
port
> > > =A0 =A0in this "logging" software? And, what is it supposed to connec=
t with?
> > > 9. did you buy the software or get it from someone else who has it
> > > =A0 =A0working? (ask them for help?).
>
> > > That is for starters.
>
> > Really?
>
> > =A00.5. What does this have to do with homebrew?
>
> hey OM:
>
> Well you have to be desperate to ask what does it have to do with
> homebrew?
> When you should have asked: what does it have to do with amateur radio
> homebrew?
>
> But this ham needs is support. Not condescending attitudes. His first
> problem is he gots Windoz.
> The second trouble is that's like freeware. You gits no support.
>
> A whois lookup of xmlog.com I finds this information:
>
> Administrative Contact:
> =A0 =A0 =A0 McAmis, Mike =A0 =A0 =A0 =A0 =A0 =A0 =A0m.mca...@VALLEY.NET
> =A0 =A0 =A0 Blat
> =A0 =A0 =A0 433 Hanover Center Road
> =A0 =A0 =A0 Etna, NH 03750
> =A0 =A0 =A0 US
> =A0 =A0 =A0 603-643-4361 fax: 603-643-4217
>
> Now that FAX number is sum church. So whether you can gits ahold of
> Mike at the phone number listed as his registrar contact, you might
> end up on a wild goose chase.
> Maybe you should try emailing mike.

>
> It's obvious what that means, the freeware =A0is looking for a 38 and
> your rig is telling the freeware 3. =A0Your'e set up for the wrong rig.
> You have to go into the settings and find what rig is listed as 3 and
> set the sittings for that rig.
>
> Towit it's like you set it up for say a 706MkII when you should have
> set it up for a 706MkIIG.
>
> Now if you can't figure it out then you are going to have to try them
> all twice. The second times always the charm.
>
> good luck on straight key night.
>
> 73 OM
> n8zu

Dear OM,
TU. An original post was on the XMLog group and it took a long while, in my estimate, to get a response. However, I got a couple of suggestions and an explanation which involved the sending of ASCII characters.

I don't mind asking questions that might be perceived as dumb. (Just look at my history of posts to various groups. Many years ago I created quite a stir when I asked a question about a Beverage antenna, hi hi.)

So, to all the helpful and compassionate Ops, thank you very much. Over the years, I received a lot of help from the many groups on which I posted.

73,
Evan

From 4854606405490285351
X-Google-Thread: fc2a5,d20a0bf6c6d96187
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news2!bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews3.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Directly heated tube, cathode bias
References: <giupbk0gnv@news3.newsguy.com>
<1f42d213-5a49-4d5e-8ad3-8ba7a03036e0@k36g2000pri.googlegroups.com>
<6b6bec9f-9cc4-40cc-b043-d213c606ff92@z28g2000prd.googlegroups.com>

```
<h4R4l.13210$UI2.4658@bignews6.bellsouth.net> <LFW4l.177$em5.61@newsfe22.iad>
In-Reply-To: <LFW4l.177$em5.61@newsfe22.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 48
Message-ID: <tI85l.12819$M01.10000@bignews3.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcbondomdfmojppfmgmfbknbjjcmonkcfibada
bknnjjejjlcdffociehgkokhbpepehncmdhcleiijhgcdmefkgepaiaklkgpghpiemmhgefmiapjod
NNTP-Posting-Date: Fri, 26 Dec 2008 12:42:49 EST
Organization: BellSouth Internet Group
Date: Fri, 26 Dec 2008 12:46:32 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1637

Tio Pedro wrote:
> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
> news:h4R4l.13210$UI2.4658@bignews6.bellsouth.net...
>> raypsi wrote:
>>> On Dec 25, 12:46 pm, raypsi <RBorow...@gmail.com> wrote:
>>>> On Dec 24, 8:58 pm, Bill M <radioex...@geemail.com> wrote:
>>>>
>>>>> I'm a little confused again.
>>>>> Setting up a 1624 tube for cathode biasing and also need to create a
>>>>> center tap for keying to ground.
>>>>> The book says 610 ohms at my voltage.  So would I use a pair of 1200
>>>>> ohm
>>>>> resistors in this case?
>>>>> My logic is since there is not a separate cathode then the two R in
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>>>>> TIA and Merry Christmas,
>>>>> Bill
>>>> hey OM:
>>>>
>>>> Exactly and you will need at least 10 watts of resistors to be safe.
>>>> Because they also will have to handle plate, grid1, grid2, and the
>>>> current they draw across the filament. I suppose if they where wire
>>>> wound like 25 watt you could stick a ferrite rod in their hole and
>>>> make them your filament chokes also. But if you use carbon comp
>>>> resistors then part of your drive will go heating those resistors, so
>>>> not much gain going on there.
>>>>
>>>> 73 OM
>>>> n8zu
>>> Well they ain't filament chokes, but in the drive circuit the drive
>>> signal won't go to heating them up if they are chokes. So they will
>>> only be taking about 1 mil of current from the filament circuit.
>>>
>>> 73
>>> n8zu
>> One possible problem.  If this is an RF amplifier circuit you probably
>> want to use NON-INDUCTIVE resistors in the circuit or they WILL act as
>> chokes!
>
> Would that make a difference?  I'd also assume there's two RF cathode
> bypass caps in there; otherwise the circuit would be extremely
> degenerative.
>
> Pete
>
>
So long as the inductance of the resistors doesn't resonate with the
bypass capacitors at some frequency of interest.


From 8663032291472207980
X-Google-Thread: fc2a5,d20a0bf6c6d96187
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news7
From: Bill M <radioexray@geemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Directly heated tube, cathode bias
Date: Fri, 26 Dec 2008 14:08:49 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 8
Message-ID: <gj36ji12sfk@news7.newsguy.com>
References: <giupbk0gnv@news3.newsguy.com>
<1f42d213-5a49-4d5e-8ad3-8ba7a03036e0@k36g2000pri.googlegroups.com>
<6b6bec9f-9cc4-40cc-b043-d213c606ff92@z28g2000prd.googlegroups.com>
<h4R4l.13210$UI2.4658@bignews6.bellsouth.net> <LFW4l.177$em5.61@newsfe22.iad>
<tI85l.12819$M01.10000@bignews3.bellsouth.net>
NNTP-Posting-Host: p27a8222ebc976896645e63c17d0cf1f241232610e2a025e9.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <tI85l.12819$M01.10000@bignews3.bellsouth.net>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1638

ken scharf wrote:

> So long as the inductance of the resistors doesn't resonate with the
> bypass capacitors at some frequency of interest.

Thanks for all the tips, guys.

-Bill


From 1656360389718321754
X-Google-Thread: fc2a5,d20a0bf6c6d96187
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe14.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <giupbk0gnv@news3.newsguy.com>
<1f42d213-5a49-4d5e-8ad3-8ba7a03036e0@k36g2000pri.googlegroups.com>
<6b6bec9f-9cc4-40cc-b043-d213c606ff92@z28g2000prd.googlegroups.com>
<h4R4l.13210$UI2.4658@bignews6.bellsouth.net> <LFW4l.177$em5.61@newsfe22.iad>
<tI85l.12819$M01.10000@bignews3.bellsouth.net>
Subject: Re: Directly heated tube, cathode bias
Lines: 54
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <Te95l.7625$mE3.3205@newsfe14.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe14.iad 1230315571 68.229.77.6 (Fri, 26 Dec 2008 18:19:31 UTC)
NNTP-Posting-Date: Fri, 26 Dec 2008 18:19:31 UTC
Organization: Cox
Date: Fri, 26 Dec 2008 13:19:27 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1639


"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:tI85l.12819$M01.10000@bignews3.bellsouth.net...
> Tio Pedro wrote:
>> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
>> news:h4R4l.13210$UI2.4658@bignews6.bellsouth.net...
>>> raypsi wrote:
>>>> On Dec 25, 12:46 pm, raypsi <RBorow...@gmail.com> wrote:
>>>>> On Dec 24, 8:58 pm, Bill M <radioex...@geemail.com> wrote:
>>>>>
>>>>>> I'm a little confused again.
>>>>>> Setting up a 1624 tube for cathode biasing and also need to create a
>>>>>> center tap for keying to ground.
>>>>>> The book says 610 ohms at my voltage.  So would I use a pair of 1200
>>>>>> ohm
>>>>>> resistors in this case?
>>>>>> My logic is since there is not a separate cathode then the two R in
>>>>>> parallel would raise the filament 'cathode' 600 ohms above B-minus.
>>>>>> TIA and Merry Christmas,
>>>>>> Bill
>>>>> hey OM:
>>>>>
>>>>> Exactly and you will need at least 10 watts of resistors to be safe.
>>>>> Because they also will have to handle plate, grid1, grid2, and the
>>>>> current they draw across the filament. I suppose if they where wire
>>>>> wound like 25 watt you could stick a ferrite rod in their hole and
```

>>>>> make them your filament chokes also. But if you use carbon comp
>>>>> resistors then part of your drive will go heating those resistors, so
>>>>> not much gain going on there.
>>>>>
>>>>> 73 OM
>>>>> n8zu
>>>> Well they ain't filament chokes, but in the drive circuit the drive
>>>> signal won't go to heating them up if they are chokes. So they will
>>>> only be taking about 1 mil of current from the filament circuit.
>>>>
>>>> 73
>>>> n8zu
>>> One possible problem. If this is an RF amplifier circuit you probably
>>> want to use NON-INDUCTIVE resistors in the circuit or they WILL act as
>>> chokes!
>>
>> Would that make a difference? I'd also assume there's two RF cathode
>> bypass caps in there; otherwise the circuit would be extremely
>> degenerative.
>>
>> Pete
> So long as the inductance of the resistors doesn't resonate with the
> bypass capacitors at some frequency of interest.

But would the impedance ever be lower than the ohmic resistance
for the resistor?

From 3652299189010815097
X-Google-Thread: fc2a5,a212beb9aba35df9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h20g2000yqn.googlegroups.com!not-for-mail
From: joeturn <joeturn2000@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Free downloads for life
Date: Fri, 26 Dec 2008 10:24:04 -0800 (PST)
Organization: http://groups.google.com
Lines: 17
Message-ID: <4e8ac39e-84c9-49fb-8dd6-bed4f988d80f@h20g2000yqn.googlegroups.com>
References: <ecd78346-623f-4eb9-8d8a-573afefe2713@h16g2000yqj.googlegroups.com>
     <2b754d9f-6fb4-434e-a1e7-e6a523727952@g3g2000pre.googlegroups.com>
NNTP-Posting-Host: 24.95.252.127
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1230315845 21193 127.0.0.1 (26 Dec 2008 18:24:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Dec 2008 18:24:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com

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Injection-Info: h20g2000yqn.googlegroups.com; posting-host=24.95.252.127;
     posting-account=TOBUfggAAAC5Ow7sgid-1fbF1N9O6T1h
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1937

This means pokerrng 7, pocket aces, all the bots , and every file
that hits the internet,plus music& videos to members for free!! Now
heres the christmas special $5.00 usualy is good for only three days
but if
you sign up now, the $5.00 will be for a life time membership! Soo
Merry
christmas from me<I;-)


http://www.warezaccess.com/signup.html


This cheatware is used by players at "ALL" the online sites,  to win
free seats in the WSOP or cheat online players out of millions at
SNGs
to purchase their own seats $$$$$$$$$$$$$$$$$$$$




From -7763885010360509411
X-Google-Thread: fc2a5,7ac17e8cf4cbeff2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!nlpi057.nbdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi065.nbdc.sbc.com.POSTED!68f42d48!not-for-mail
From: "no" <no@no.com>
Newsgroups: rec.radio.amateur.homebrew
References: <Nwg5l.11115$x%.1336@nlpi070.nbdc.sbc.com> <86166b1a-8cdc-4098-b267-
d2b3e7df588a@a29g2000pra.googlegroups.com>
<a286l.14052$M01.5666@bignews3.bellsouth.net>
Subject: Re: You know your passenger is a geek when ...
Lines: 26
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <p9Q6l.11888$c45.10252@nlpi065.nbdc.sbc.com>
NNTP-Posting-Host: 70.243.201.101
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi065.nbdc.sbc.com 1230753493 ST000 70.243.201.101 (Wed, 31 Dec 2008
14:58:13 EST)
NNTP-Posting-Date: Wed, 31 Dec 2008 14:58:13 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
```

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TCNVPDTNTKHWXKB@X^B_OCJLPZ@ET_O[G\XSG@E\G[ZKVLBL^CJINM@I_KVIOR\T_M_AW_M[_BWU_HFA_]
@A_A^SGFAUDE_DFTMQPFWVW[QPJN
Date: Wed, 31 Dec 2008 13:58:14 -0600
Xref: g2news2.google.com rec.radio.amateur.homebrew:2030


"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:a286l.14052$M01.5666@bignews3.bellsouth.net...
> JIMMIE wrote:
>> On Dec 26, 9:36 pm, "no" <n...@no.com> wrote:
>>> He notices that the digital display on your dash is a clock set to GMT.
>>
>> My daughter must think Im a geek, She gave me a "Fibonacci  as easy as
>> 1,1,2,3,....." T shirt for Xmas.
>>
>> Jimmie
> I remember seeing a T shirt with "...as easy as Pi" someplace.  Same idea.

Last year I gave my wife a shirt that said "if you're not part of the
solution, you're part of the precipitate." (She's a biologist) and my son
got "I'm as [Gaussian distribution equation] as anyone," both from
Thinkgeek.com.

I saw plans for a one-button Morse Code electronic combination lock once,
but never got around to making one.  Also, it would be nice if someone made
a Java ap. that allowed text entry via Morse code.  My daughter can type
fast and accurately without looking using T9 on the keypad, but I always end
up with the wrong ambiguous word (e. g. "good" in place of "home") in my
messages.





From -6499049622059475636
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 31 Dec 2008 15:58:29 -0600
From: "Lynn" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <3z86l.34897$fs1.18091@newsfe05.iad> <c76f70ef-0cc1-49f8-
b161-897bd8b470a0@r37g2000prr.googlegroups.com>
<Eqt6l.429$Y32.30@bignews8.bellsouth.net> <6Du6l.44247$an4.16900@newsfe08.iad>
<kKKdnVTSmMnkS8fUnZ2dnUVZ_rydnZ2d@giganews.com>
<c%N6l.828$rF5.804@bignews6.bellsouth.net> <Q-
mdnXCTJryEJ8bUnZ2dnUVZ_t3inZ2d@giganews.com>
<sgP6l.825$vs6.577@bignews7.bellsouth.net>
In-Reply-To: <sgP6l.825$vs6.577@bignews7.bellsouth.net>
Subject: Re: 01 tube as RF amp..
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Date: Wed, 31 Dec 2008 13:57:19 -0800
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
Message-ID: <HeednVuz9LWYdsbUnZ2dnUVZ_u6dnZ2d@giganews.com>
Lines: 68
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
RjGxn7iyW8NsWK1tQRTkJN8TFHVGPzypaDZBhaZ3gC6C6wOgs9NDAHs6kZJXsXXeEyjCgO7WpQMSe1U!/
0QFYJ85DzyQtcGcNJ3cDGbxWNxuGw2dTrheCPOXV0ghupXNDhTV1O2dn86c0Gz7UXUKsxF8
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1734


"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:sgP6l.825$vs6.577@bignews7.bellsouth.net...
> Lynn wrote:
>>
>> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
>> news:c%N6l.828$rF5.804@bignews6.bellsouth.net...
>>> Lynn wrote:
>>>>
>>>> "Tio Pedro" <radioconnection@cox.net> wrote in message
>>>> news:6Du6l.44247$an4.16900@newsfe08.iad...
>>>>>
>>>>> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
>>>>> news:Eqt6l.429$Y32.30@bignews8.bellsouth.net...
>>>>>>  > Even with it's 'hard vacuum' the 01 didn't have as good a 'getter'
>>>>>> as later tubes and would arc over with more than 130 volts or so.  It
>>>>>> was used as a transmitter before the type 202 tube became widely
>>>>>> available, but was a QRP thing, less than a watt input.
>>>>>
>>>>> Will it have enough output to drive a 245?
>>>> I doubt it very seriously. I suppose if perfection was achieved in
>>>> matching
>>>> the 01's output to the 245's grid was possible (I, for one cannot do
>>>> it),
>>>> the losses would be enough to tickle it into the beginning of class C.
>>>>
>>>> Ken's idea of going to class A might work, but the 245 would be running
>>>> in a very inefficient mode. There is one website showing a couple of
```

>>>> 45's running in AB2 (how do you make a sub 2?) . Another website
>>>> has some interesting stuff with 245 chatter...... (you may have already
>>>> seen it, but just in case..........
>>>>
>>>> http://www.antiquewireless.org/otb/29amp.htm
>>>>
>>>> Old Chief Lynn, W7LTQ and a couple commercials
>>> Actually AB1 would be better. My point was that you don't need driving
>>> power until you start drawing grid current. As long as the final
>>> doesn't draw grid current you are not loading down the oscillator tube.
>>> The question was would the 01A be able to drive a '45. My answer is
>>> yes, but probably not to full output....meaning you won't be able to
>>> supply much grid current
>>
>> Yor're correct (as qualified, and as usual)
>> But the 01A is NOT a suitable (satisfactory?) driver
>> for a 45.
>>
>> Happy New Year! (Will I see any of you on "Straight Key Night?(
>>
>> Old Chief Lynn
> Well the original question was would it work, and the answer is yes, but
> not very well.
>
> If you want to use tubes from the same era, then I'd pick a '27 for the
> oscillator. The 27 is probably the first tube in a chain of evolution
> that led up to the 1626 which was used for the same purpose in the ARC-5
> transmitters. (though the 1625 is a heck of a lot easier to drive than a
> '45!).

Right again, Ken. Those ARC-5's were sure a lot of fun when new ones
were $5 a crack! Used one for VFO on a BC-375 when the'375 was
$45, new, complete with all tuning units, dynamotor, antenna tuner,
antenna switch with RF ammeter, etc! Glory days of radio. If one didn't
mind a little "yoooooop de yoooop yoooop" on CW, the 211 in the
'375 in MOPA mode made a nice oscillator tube as well!

Old Chief Lynn

From -4084949353864655423
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe02.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <3z86l.34897$fs1.18091@newsfe05.iad> <c76f70ef-0cc1-49f8-
b161-897bd8b470a0@r37g2000prr.googlegroups.com>

<Eqt6l.429$Y32.30@bignews8.bellsouth.net> <6Du6l.44247$an4.16900@newsfe08.iad>
<kKKdnVTSmMnkS8fUnZ2dnUVZ_rydnZ2d@giganews.com>
<c%N6l.828$rF5.804@bignews6.bellsouth.net> <Q-mdnXCTJryEJ8bUnZ2dnUVZ_t3inZ2d@giganews.com>
<sgP6l.825$vs6.577@bignews7.bellsouth.net>
Subject: Re: 01 tube as RF amp..
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <lWR6l.13472$4u2.13449@newsfe02.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe02.iad 1230760721 68.229.77.6 (Wed, 31 Dec 2008 21:58:41 UTC)
NNTP-Posting-Date: Wed, 31 Dec 2008 21:58:41 UTC
Organization: Cox
Date: Wed, 31 Dec 2008 16:58:50 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1735

"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message > If you
want to use tubes from the same era, then I'd pick a '27 for the
> oscillator. The 27 is probably the first tube in a chain of evolution
> that led up to the 1626 which was used for the same purpose in the ARC-5
> transmitters. (though the 1625 is a heck of a lot easier to drive than a
> '45!).
>

I agree Ken. A lot of the early 30s rigs used a tetrode driving a 45.
I'll have to dig deeper. (Looking for retirement projects!)
I saw a neat design using a pair of 30s to drive a P-P pair of 33s in
one battery TX QST ran in 32 or so.

Pete

From 1010120622999997657
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!e1g2000pra.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 01 tube as RF amp..
Date: Wed, 31 Dec 2008 18:14:49 -0800 (PST)
Organization: http://groups.google.com
Lines: 23
Message-ID: <f2cb0684-92e2-43f9-950e-fc1cdef0bdec@e1g2000pra.googlegroups.com>

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References: <3z86l.34897$fs1.18091@newsfe05.iad> <c76f70ef-0cc1-49f8-
b161-897bd8b470a0@r37g2000prr.googlegroups.com>
     <Eqt6l.429$Y32.30@bignews8.bellsouth.net>
<6Du6l.44247$an4.16900@newsfe08.iad>
     <WCx6l.495$3y5.269@bignews4.bellsouth.net>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1230776089 32525 127.0.0.1 (1 Jan 2009 02:14:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 1 Jan 2009 02:14:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e1g2000pra.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.5)
     Gecko/2008120122 Firefox/3.0.5,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1736

On Dec 30, 2:54=A0pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
> Tio Pedro wrote:
> > "ken scharf" <wa2mzeNOSPAMB...@bellsouth.net> wrote in message
> >news:Eqt6l.429$Y32.30@bignews8.bellsouth.net...
> >> =A0> Even with it's 'hard vacuum' the 01 didn't have as good a 'getter=
' as
> >> later tubes and would arc over with more than 130 volts or so. =A0It w=
as
> >> used as a transmitter before the type 202 tube became widely available=
,
> >> but was a QRP thing, less than a watt input.
>
> > Will it have enough output to drive a 245?
>
> I'm sure it will drive a neutralized 245 to provide some gain.
> You might not get enough drive for full power output from the 245.
> (even if the 245 was run in class A, which requires NO driving power
> you would still see SOME power gain).

Hmmmm...You think class A at RF requires no driving power??

Cheers,
Tom


From 9154139620545539291
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews5.bellsouth.net.POSTED!2eb35c21!
not-for-mail
```

```
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 01 tube as RF amp..
References: <3z86l.34897$fs1.18091@newsfe05.iad> <c76f70ef-0cc1-49f8-
b161-897bd8b470a0@r37g2000prr.googlegroups.com>
<Eqt6l.429$Y32.30@bignews8.bellsouth.net> <6Du6l.44247$an4.16900@newsfe08.iad>
     <WCx6l.495$3y5.269@bignews4.bellsouth.net> <f2cb0684-92e2-43f9-950e-
fc1cdef0bdec@e1g2000pra.googlegroups.com>
In-Reply-To: <f2cb0684-92e2-43f9-950e-fc1cdef0bdec@e1g2000pra.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 25
Message-ID: <ruW6l.1076$gE4.1056@bignews5.bellsouth.net>
Date: Wed, 31 Dec 2008 22:16:06 -0500
NNTP-Posting-Host: 74.233.73.20
X-Complaints-To: abuse@bellsouth.net
X-Trace: bignews5.bellsouth.net 1230779415 74.233.73.20 (Wed, 31 Dec 2008 22:10:15
EST)
NNTP-Posting-Date: Wed, 31 Dec 2008 22:10:15 EST
Organization: BellSouth Internet Group
Xref: g2news2.google.com rec.radio.amateur.homebrew:2034

K7ITM wrote:
> On Dec 30, 2:54 pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
>> Tio Pedro wrote:
>>> "ken scharf" <wa2mzeNOSPAMB...@bellsouth.net> wrote in message
>>> news:Eqt6l.429$Y32.30@bignews8.bellsouth.net...
>>>>  > Even with it's 'hard vacuum' the 01 didn't have as good a 'getter' as
>>>> later tubes and would arc over with more than 130 volts or so.  It was
>>>> used as a transmitter before the type 202 tube became widely available,
>>>> but was a QRP thing, less than a watt input.
>>> Will it have enough output to drive a 245?
>> I'm sure it will drive a neutralized 245 to provide some gain.
>> You might not get enough drive for full power output from the 245.
>> (even if the 245 was run in class A, which requires NO driving power
>> you would still see SOME power gain).
>
> Hmmmm...You think class A at RF requires no driving power??
>
> Cheers,
> Tom
Only voltage, no current.
Of course some power gets wasted since resistance isn't zero and some
heat is generated in the coils, etc.  I guess there is some power factor
in the grid / cathode capacitance etc.  The input impedance of the '45
in class A SHOULD BE infinite.  It isn't, but it IS VERY HIGH.  So
except for losses, no driving power, only voltage.


From -7663140170614017705
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
```

X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 01 tube as RF amp..
References: <3z86l.34897$fs1.18091@newsfe05.iad> <c76f70ef-0cc1-49f8-b161-897bd8b470a0@r37g2000prr.googlegroups.com> <Eqt6l.429$Y32.30@bignews8.bellsouth.net> <6Du6l.44247$an4.16900@newsfe08.iad> <kKKdnVTSmMnkS8fUnZ2dnUVZ_rydnZ2d@giganews.com> <c%N6l.828$rF5.804@bignews6.bellsouth.net> <Q-mdnXCTJryEJ8bUnZ2dnUVZ_t3inZ2d@giganews.com> <sgP6l.825$vs6.577@bignews7.bellsouth.net> <lWR6l.13472$4u2.13449@newsfe02.iad>
In-Reply-To: <lWR6l.13472$4u2.13449@newsfe02.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 23
Message-ID: <HwW6l.1077$gE4.631@bignews5.bellsouth.net>
Date: Wed, 31 Dec 2008 22:18:31 -0500
NNTP-Posting-Host: 74.233.73.20
X-Complaints-To: abuse@bellsouth.net
X-Trace: bignews5.bellsouth.net 1230779559 74.233.73.20 (Wed, 31 Dec 2008 22:12:39 EST)
NNTP-Posting-Date: Wed, 31 Dec 2008 22:12:39 EST
Organization: BellSouth Internet Group
Xref: g2news2.google.com rec.radio.amateur.homebrew:2035

Tio Pedro wrote:
> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message > If you
> want to use tubes from the same era, then I'd pick a '27 for the
>> oscillator. The 27 is probably the first tube in a chain of evolution
>> that led up to the 1626 which was used for the same purpose in the ARC-5
>> transmitters. (though the 1625 is a heck of a lot easier to drive than a
>> '45!).
>>
>
> I agree Ken. A lot of the early 30s rigs used a tetrode driving a 45.
> I'll have to dig deeper. (Looking for retirement projects!)
> I saw a neat design using a pair of 30s to drive a P-P pair of 33s in
> one battery TX QST ran in 32 or so.
>
> Pete
>
>
The 27 is an indirectly heated triode.
Except for the Kellog tube, it was the first one ever made.
(not talking prototypes though).

The 24A is a tetrode. Than might make a nice xtal oscillator to drive
the '45.

From 4052476648060217858
X-Google-Thread: fc2a5,610ea0ef9ba9a3fd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l33g2000pri.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Spectrum Analyser Using Tek 465
Date: Thu, 1 Jan 2009 08:58:11 -0800 (PST)
Organization: http://groups.google.com
Lines: 24
Message-ID: <8675865b-5ba0-46cc-b7c6-1037f2af107e@l33g2000pri.googlegroups.com>
References: <gjd6fv$htk$1@news.albasani.net>
NNTP-Posting-Host: 76.226.132.176
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1230829091 29194 127.0.0.1 (1 Jan 2009 16:58:11 GMT)
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NNTP-Posting-Date: Thu, 1 Jan 2009 16:58:11 +0000 (UTC)
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User-Agent: G2/1.0
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     Gecko/20080829 Firefox/2.0.0.17,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1739

On Dec 30 2008, 8:08 am, M0WYM <Sanss...@peartreegreen.org> wrote:
> I wonder if anyone knows of a project or kit that uses a 'scope
> timebase output as the basis of an HF spectrum analyser. My aim is
> to make something that would be useful for filter work so I'm not
> necessarily looking for very wide frequency sweep.
>
> TIA,
>
> Charlie.
>
> --
> M0WYMwww.radiowymsey.org
>
> Sign today!http://petitions.pm.gov.uk/SaveShortwave/

Hey OM
In the old analog TV days I used a cable ready varactor tuner as a
sweep generator to drive the scope and MAKE it a spectrum analyzer.
All you needed was a ramp voltage to sweep the varactor tuning with.
Nowadays I could use a transceiver hooked up to a computer and use

digipan or ham radio deluxe to do that.

73 OM
n8zu

```
From -4448790082739292389
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!q30g2000prq.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 01 tube as RF amp..
Date: Thu, 1 Jan 2009 10:29:50 -0800 (PST)
Organization: http://groups.google.com
Lines: 45
Message-ID: <a9cf3995-1ed3-438c-aab4-429a346ed98f@q30g2000prq.googlegroups.com>
References: <3z86l.34897$fs1.18091@newsfe05.iad> <c76f70ef-0cc1-49f8-
b161-897bd8b470a0@r37g2000prr.googlegroups.com>
     <Eqt6l.429$Y32.30@bignews8.bellsouth.net>
<6Du6l.44247$an4.16900@newsfe08.iad>
     <WCx6l.495$3y5.269@bignews4.bellsouth.net> <f2cb0684-92e2-43f9-950e-
fc1cdef0bdec@e1g2000pra.googlegroups.com>
     <ruW6l.1076$gE4.1056@bignews5.bellsouth.net>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 1 Jan 2009 18:29:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q30g2000prq.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.5)
     Gecko/2008120122 Firefox/3.0.5,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2037
```

```
On Dec 31 2008, 7:16=A0pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net>
wrote:
> K7ITM wrote:
> > On Dec 30, 2:54 pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
> >> Tio Pedro wrote:
> >>> "ken scharf" <wa2mzeNOSPAMB...@bellsouth.net> wrote in message
> >>>news:Eqt6l.429$Y32.30@bignews8.bellsouth.net...
> >>>> =A0> Even with it's 'hard vacuum' the 01 didn't have as good a 'gett=
er' as
> >>>> later tubes and would arc over with more than 130 volts or so. =A0It=
 was
> >>>> used as a transmitter before the type 202 tube became widely availab=
le,
> >>>> but was a QRP thing, less than a watt input.
> >>> Will it have enough output to drive a 245?
> >> I'm sure it will drive a neutralized 245 to provide some gain.
> >> You might not get enough drive for full power output from the 245.
> >> (even if the 245 was run in class A, which requires NO driving power
> >> you would still see SOME power gain).
>
> > Hmmmm...You think class A at RF requires no driving power??
>
> > Cheers,
> > Tom
>
> Only voltage, no current.
> Of course some power gets wasted since resistance isn't zero and some
> heat is generated in the coils, etc. =A0I guess there is some power facto=
r
> in the grid / cathode capacitance etc. =A0The input impedance of the '45
> in class A SHOULD BE infinite. =A0It isn't, but it IS VERY HIGH. =A0So
> except for losses, no driving power, only voltage.

OK, to get an _accurate_ answer with respect to grid driving power,
you need to account for the effects of the electrons going from
cathode to plate as they pass by the grid.  At high enough frequency,
this becomes significant.  This is quite apart from losses in elements
external to the tube.  One reference about this is Terman's "Radio
Engineers' Handbook, section 4, paragraph 9.  But just consider that
it takes a certain amount of _energy_ to push those electrons around
and control them, even if they don't actually ever come in contact
with the grid.

Cheers,
Tom


From 4857818654418242276
X-Google-Thread: fc2a5,610ea0ef9ba9a3fd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Path: g2news1.google.com!postnews.google.com!z28g2000prd.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Spectrum Analyser Using Tek 465
Date: Thu, 1 Jan 2009 18:53:27 -0800 (PST)
Organization: http://groups.google.com
Lines: 39
Message-ID: <2319fda0-833a-4cd3-b63c-e3319929010d@z28g2000prd.googlegroups.com>
References: <gjd6fv$htk$1@news.albasani.net> <xqq6l.24140$701.1410@newsfe12.iad>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
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X-Trace: posting.google.com 1230864807 7851 127.0.0.1 (2 Jan 2009 02:53:27 GMT)
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NNTP-Posting-Date: Fri, 2 Jan 2009 02:53:27 +0000 (UTC)
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1741

On Dec 30 2008, 9:41=A0am, "Tio Pedro" <radioconnect...@cox.net> wrote:
> "M0WYM" <Sanss...@peartreegreen.org> wrote in message
>
> news:gjd6fv$htk$1@news.albasani.net...
>
> >I wonder if anyone knows of a project or kit that uses a 'scope timebase
> >output as the basis of an HF spectrum analyser. My aim is to make someth=
ing
> >that would be useful for filter work so I'm not necessarily looking for
> >very wide frequency sweep.
> =A0> Charlie. M0WYM
>
> My own analyzer was a kit for a QST project sold by
> A&A Engineering; the design centered around a CATV
> module and had it's own timebase and IF strip/log detector
> internally. The analyzer used the scope as a X-Y display.
> For serious SSB and CW filter work the VCO is going to
> be tricky, you'll need low phase noise, etc.; and a good
> set of narrow IF filters that can be swept is another
> can of worms. =A0Most of the ham analyzers are better
> suited for wider IF responses and wide sweep ranges.
> I did a major rework of the IF and Log Amp using an
> Analog Devices chip, but the analyzer still has
> limitations.
>
> I'd seriously look at some of the DSP receiver kits that
> are now on the market--most offer spectrum display
> on the computer screen, and adding a good, but
> simple, sweep generator might be an easier approach.
>
> Pete

I had a little one band kit radio that was varactor tuned in my hands
for a while and used the sweep voltage from a scope to to drive the
varactors. I was interesting but the scope didnt have enogh
persistence to show a good display. It really looked cool when you
used a marker generator with it in a dark room.

JImmie


From -466611011777541497
```

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X-Google-Thread: fc2a5,d20a0bf6c6d96187
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gnilink.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews3.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Directly heated tube, cathode bias
References: <giupbk0gnv@news3.newsguy.com>
<1f42d213-5a49-4d5e-8ad3-8ba7a03036e0@k36g2000pri.googlegroups.com>
<6b6bec9f-9cc4-40cc-b043-d213c606ff92@z28g2000prd.googlegroups.com>
<h4R4l.13210$UI2.4658@bignews6.bellsouth.net> <LFW4l.177$em5.61@newsfe22.iad>
<tI85l.12819$M01.10000@bignews3.bellsouth.net> <Te95l.7625$mE3.3205@newsfe14.iad>
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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
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Lines: 54
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X-Trace:
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NNTP-Posting-Date: Fri, 26 Dec 2008 14:06:44 EST
Organization: BellSouth Internet Group
Date: Fri, 26 Dec 2008 14:10:27 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1938

Tio Pedro wrote:
> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
> news:tI85l.12819$M01.10000@bignews3.bellsouth.net...
>> Tio Pedro wrote:
>>> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
>>> news:h4R4l.13210$UI2.4658@bignews6.bellsouth.net...
>>>> raypsi wrote:
>>>>> On Dec 25, 12:46 pm, raypsi <RBorow...@gmail.com> wrote:
>>>>>> On Dec 24, 8:58 pm, Bill M <radioex...@geemail.com> wrote:
>>>>>>
>>>>>>> I'm a little confused again.
>>>>>>> Setting up a 1624 tube for cathode biasing and also need to create a
>>>>>>> center tap for keying to ground.
>>>>>>> The book says 610 ohms at my voltage.  So would I use a pair of 1200
>>>>>>> ohm
>>>>>>> resistors in this case?
>>>>>>> My logic is since there is not a separate cathode then the two R in
>>>>>>> parallel would raise the filament 'cathode' 600 ohms above B-minus.
>>>>>>> TIA and Merry Christmas,
>>>>>>> Bill
>>>>>> hey OM:
```

```
>>>>>>
>>>>>> Exactly and you will need at least 10 watts of resistors to be safe.
>>>>>> Because they also will have to handle plate, grid1, grid2, and the
>>>>>> current they draw across the filament. I suppose if they where wire
>>>>>> wound like 25 watt you could stick a ferrite rod in their hole and
>>>>>> make them your filament chokes also. But if you use carbon comp
>>>>>> resistors then part of your drive will go heating those resistors, so
>>>>>> not much gain going on there.
>>>>>>
>>>>>> 73 OM
>>>>>> n8zu
>>>>> Well they ain't filament chokes, but in the drive circuit the drive
>>>>> signal won't go to heating them up if they are chokes. So they will
>>>>> only be taking about 1 mil of current from the filament circuit.
>>>>>
>>>>> 73
>>>>> n8zu
>>>> One possible problem.  If this is an RF amplifier circuit you probably
>>>> want to use NON-INDUCTIVE resistors in the circuit or they WILL act as
>>>> chokes!
>>> Would that make a difference?  I'd also assume there's two RF cathode
>>> bypass caps in there; otherwise the circuit would be extremely
>>> degenerative.
>>>
>>> Pete
>> So long as the inductance of the resistors doesn't resonate with the
>> bypass capacitors at some frequency of interest.
>
> But would the impedance ever be lower than the ohmic resistance
> for the resistor?
>
>
It would be an inductor with very low Q.


From -3204410040068620531
X-Google-Thread: fc2a5,d20a0bf6c6d96187
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe08.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <giupbk0gnv@news3.newsguy.com>
<1f42d213-5a49-4d5e-8ad3-8ba7a03036e0@k36g2000pri.googlegroups.com>
<6b6bec9f-9cc4-40cc-b043-d213c606ff92@z28g2000prd.googlegroups.com>
<h4R4l.13210$UI2.4658@bignews6.bellsouth.net> <LFW4l.177$em5.61@newsfe22.iad>
<tI85l.12819$M01.10000@bignews3.bellsouth.net> <Te95l.7625$mE3.3205@newsfe14.iad>
<8X95l.12843$M01.7177@bignews3.bellsouth.net>
Subject: Re: Directly heated tube, cathode bias
Lines: 66
X-Priority: 3
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X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
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Message-ID: <9Sb5l.6636$an4.5324@newsfe08.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe08.iad 1230326277 68.229.77.6 (Fri, 26 Dec 2008 21:17:57 UTC)
NNTP-Posting-Date: Fri, 26 Dec 2008 21:17:57 UTC
Organization: Cox
Date: Fri, 26 Dec 2008 16:17:54 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1939


"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:8X95l.12843$M01.7177@bignews3.bellsouth.net...
> Tio Pedro wrote:
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>> news:tI85l.12819$M01.10000@bignews3.bellsouth.net...
>>> Tio Pedro wrote:
>>>> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
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>>>>>>>
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```

>>>>>>
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>>>> Pete
>>> So long as the inductance of the resistors doesn't resonate with the
>>> bypass capacitors at some frequency of interest.
>>
>> But would the impedance ever be lower than the ohmic resistance
>> for the resistor?
>>
>>
> It would be an inductor with very low Q.

Yes, but it is still Hi Z, the resistive portion
is in series with the inductive reactance.

Pete

From -8984535847185938157
X-Google-Thread: fc2a5,610ea0ef9ba9a3fd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
newsfeed.straub-nv.de!news.albasani.net!not-for-mail
From: M0WYM <Sansspam@peartreegreen.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Spectrum Analyser Using Tek 465
Date: Fri, 02 Jan 2009 10:16:19 +0000
Organization: albasani.net
Lines: 27
Message-ID: <gjkphj$pke$1@news.albasani.net>
References: <gjd6fv$htk$1@news.albasani.net> <xqq6l.24140$701.1410@newsfe12.iad>
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Xref: g2news2.google.com rec.radio.amateur.homebrew:2039
```

JIMMIE wrote:
<SNIP>

> I had a little one band kit radio that was varactor tuned in my hands
> for a while and used the sweep voltage from a scope to to drive the
> varactors. I was interesting but the scope didnt have enogh
> persistence to show a good display. It really looked cool when you
> used a marker generator with it in a dark room.
>
> JImmie

Jimmie,

That sounds like fun - I will have to try that with my BITX20A which
I modding to varactor tuning

Charlie.

--
M0WYM
www.radiowymsey.org

Sign today!
http://petitions.pm.gov.uk/SaveShortwave/

```
From 3135064772941918745
X-Google-Thread: fc2a5,7ac17e8cf4cbeff2,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!newshub.sdsu.edu!
flph200.ffdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!nlpi070.nbdc.sbc.com.POSTED!68f42d48!not-for-mail
From: "no" <no@no.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: You know your passenger is a geek when ...
Lines: 3
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <Nwg5l.11115$x%.1336@nlpi070.nbdc.sbc.com>
NNTP-Posting-Host: 66.140.58.113
```

```
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi070.nbdc.sbc.com 1230345389 ST000 66.140.58.113 (Fri, 26 Dec 2008
21:36:29 EST)
NNTP-Posting-Date: Fri, 26 Dec 2008 21:36:29 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
Q[R_PJSCTS@[RVP[KRXL_TXBUSXB@DTMNHWB_EYLJZ]BGIELCNSKQFCY@TXDX_WHSVB]ZEJLSNY\^J[CUV
SA_QLFC^RQHUPH[P[NRWCCMLSNPOD_ESALHUK@TDFUZHBLJ\XGKL^NXA\EVHSP[D_C^B_^JCX^W]CHBAX]
POG@SSAZQ\LE[DCNMUPG_VSC@VJM
Date: Fri, 26 Dec 2008 20:36:32 -0600
Xref: g2news1.google.com rec.radio.amateur.homebrew:1643
```

He notices that the digital display on your dash is a clock set to GMT.

```
From -4854826323583413892
X-Google-Thread: fc2a5,7ac17e8cf4cbeff2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news3
From: Bill M <radioexray@geemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: You know your passenger is a geek when ...
Date: Fri, 26 Dec 2008 23:36:33 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 18
Message-ID: <gj47s30um9@news3.newsguy.com>
References: <Nwg5l.11115$x%.1336@nlpi070.nbdc.sbc.com>
NNTP-Posting-Host: p14d1bfbfff00000011b4ca8178c42f995e0853484e3ba9c3.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <Nwg5l.11115$x%.1336@nlpi070.nbdc.sbc.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:1941
```

no wrote:
> He notices that the digital display on your dash is a clock set to GMT.
>
>

Haha...

I have a similar story.   I was at our local medical GP's office for something and his cellphone started beeping CW. It spelled out the call letters and said the name of the company (I've never heard cellfones do that) and I said "Oh, it just said 'KJH123 Verizon Com'" or whatever it was.

He gave me the strangest look!

I said, 'I mean your cellfone, it just sent something in Morse code'.

He gave me the strange look again and says 'Uh, mmm-kay'.

-Bill

```
From -496085762579926539
X-Google-Thread: fc2a5,6bdb6006ae7c897b,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,BIG5
Path: g2news1.google.com!postnews.google.com!e1g2000pra.googlegroups.com!not-for-
mail
From: "Gian, I7SWX" <i7swx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: PA3AKE Project Update - DDS
Date: Fri, 2 Jan 2009 08:46:25 -0800 (PST)
Organization: http://groups.google.com
Lines: 30
Message-ID: <7841a382-aede-4f19-a1ca-c897e7647338@e1g2000pra.googlegroups.com>
NNTP-Posting-Host: 82.49.24.165
Mime-Version: 1.0
Content-Type: text/plain; charset=Big5
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1230914785 28854 127.0.0.1 (2 Jan 2009 16:46:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 2 Jan 2009 16:46:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e1g2000pra.googlegroups.com; posting-host=82.49.24.165;
     posting-account=udTjrAoAAAAiwxU1IW0RllxgGCbsoHkm
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1743
```

Hi All,

First of all, Happy New Year 2009 and wish you the Best on your radio activities and projects.

I like to inform you that our friend Martein, PA3AKE, has updated his web page on high performance analog front-end.
See the below sub-directories where you will find a lot of information and measurements on DDS.

http://www.xs4all.nl/~martein/pa3ake/hmode/index.html

Local Oscillator:

o Impact on Dynamic Range
o   Design Choices
=84X 1GHz Reference Clock
=84X AD9910 Prototype Board

=84X AD9910 and SSB-Noise
=84X AD9910 and PM-Noise

o Sideband Noise Measurement
=84X Reciprocal Mixing
=84X Crystal Notch Filter
=84X Quadrature Mixing

Best 73 and enjoy the visit

Gian
I7SWX

From 1689335860276194762
X-Google-Thread: fc2a5,610ea0ef9ba9a3fd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!69.16.177.246.MISMATCH!cyclone03.ams2.highwinds-media.com!news.highwinds-media.com!npeersf02.ams.highwinds-media.com!newsfe17.ams2.POSTED!8bc1e37e!not-for-mail
From: Chris Jones <lugnut808@yahoo.com>
Subject: Re: Spectrum Analyser Using Tek 465
Newsgroups: rec.radio.amateur.homebrew
References: <gjd6fv$htk$1@news.albasani.net>
<ZCq6l.1994$Es4.1304@nwrddc01.gnilink.net>
Lines: 29
User-Agent: KNode/0.10.9
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <eNt7l.96766$9U2.48215@newsfe17.ams2>
X-Complaints-To: abuse@WWWSpace.NET
NNTP-Posting-Date: Fri, 02 Jan 2009 19:19:38 UTC
Date: Fri, 02 Jan 2009 19:19:40 +0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:1744

Dale Parfitt wrote:

>
> "M0WYM" <Sansspam@peartreegreen.org> wrote in message
> news:gjd6fv$htk$1@news.albasani.net...
>>I wonder if anyone knows of a project or kit that uses a 'scope timebase
>>output as the basis of an HF spectrum analyser. My aim is to make
>>something that would be useful for filter work so I'm not necessarily
>>looking for very wide frequency sweep.
>>
>> TIA,
>>
>>
>> Charlie.
>>

> Hi Charlie,
> For very little money, you can buy the miniVNA:
> http://www.miniradiosolutions.com/
>
> That will far outplay anything you can build. Because it makes use of a
> PC, it will have features well beyond a simple SA + tracking generator. In
> addition, it's a vector device.
>
> GL,
> Dale W4OP

You could build a N2PK VNA which is pretty accurate.

Chris

From 141438612371580444
X-Google-Thread: fc2a5,7ac17e8cf4cbeff2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!news.astraweb.com!
border5.newsrouter.astraweb.com!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: You know your passenger is a geek when ...
Date: Sat, 27 Dec 2008 01:24:28 -0800
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.12.27.09.24.28.747909@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <Nwg5l.11115$x%.1336@nlpi070.nbdc.sbc.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 5
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: d0945222.news.astraweb.com
X-Trace: DXC=Y_SD?SK8[CL7dZd0V0aUXKL?
0kYOcDh@JTG5oCeeJ@lIGM_BolTg0i@FDS<UL7kA@Lnh2cCTA><0OU3oLSeF5[7K=AU8U6db\?N
Xref: g2news2.google.com rec.radio.amateur.homebrew:1942

On Fri, 26 Dec 2008 20:36:32 -0600, no wrote:

> He notices that the digital display on your dash is a clock set to GMT.

Good one!

From 6048350959805307310
X-Google-Thread: fc2a5,7ac17e8cf4cbeff2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-xfer.nntp.sonic.net!
news.astraweb.com!border5.newsrouter.astraweb.com!not-for-mail
From: geek <geek@localhost.localdomain>

Subject: Re: You know your passenger is a geek when ...
Date: Sat, 27 Dec 2008 01:25:52 -0800
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.12.27.09.25.51.311061@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <Nwg5l.11115$x%.1336@nlpi070.nbdc.sbc.com>
<gj47s30um9@news3.newsguy.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 23
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: d0945222.news.astraweb.com
X-Trace: DXC==`_j9ee@2COjEc;hW[JGKHL?
0kYOcDh@JTG5oCeeJ@lIGM_BolTg0i@FDS<UL7kA@Lnh2cCTA><0OU3oLSeF5[7K=AU8U6db\?N
Xref: g2news1.google.com rec.radio.amateur.homebrew:1646

On Fri, 26 Dec 2008 23:36:33 -0400, Bill M wrote:

> no wrote:
>> He notices that the digital display on your dash is a clock set to GMT.
>>
>>
> Haha...
>
> I have a similar story.   I was at our local medical GP's office for
> something and his cellphone started beeping CW. It spelled out the call
> letters and said the name of the company (I've never heard cellfones do
> that) and I said "Oh, it just said 'KJH123 Verizon Com'" or whatever it was.
>
> He gave me the strangest look!
>
> I said, 'I mean your cellfone, it just sent something in Morse code'.
>
> He gave me the strange look again and says 'Uh, mmm-kay'.
>
> -Bill

Ooooh, we can get CW ringtones? I'm in!

From 4705015684957472651
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a29g2000pra.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 01 tube as RF amp..
Date: Sat, 3 Jan 2009 10:12:07 -0800 (PST)
Organization: http://groups.google.com

```
Lines: 53
Message-ID: <c36de62a-322b-47d2-8cfc-5c9927d00dcc@a29g2000pra.googlegroups.com>
References: <3z86l.34897$fs1.18091@newsfe05.iad> <c76f70ef-0cc1-49f8-
b161-897bd8b470a0@r37g2000prr.googlegroups.com>
     <Eqt6l.429$Y32.30@bignews8.bellsouth.net>
<6Du6l.44247$an4.16900@newsfe08.iad>
     <WCx6l.495$3y5.269@bignews4.bellsouth.net> <f2cb0684-92e2-43f9-950e-
fc1cdef0bdec@e1g2000pra.googlegroups.com>
     <ruW6l.1076$gE4.1056@bignews5.bellsouth.net> <a9cf3995-1ed3-438c-
aab4-429a346ed98f@q30g2000prq.googlegroups.com>
NNTP-Posting-Host: 76.226.136.131
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1231006327 3308 127.0.0.1 (3 Jan 2009 18:12:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Jan 2009 18:12:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a29g2000pra.googlegroups.com; posting-host=76.226.136.131;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.17)
     Gecko/20080829 Firefox/2.0.0.17,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2042

On Jan 1, 1:29 pm, K7ITM <k7...@msn.com> wrote:
> On Dec 31 2008, 7:16 pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net>
> wrote:
>
>
>
> > K7ITM wrote:
> > > On Dec 30, 2:54 pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
> > >> Tio Pedro wrote:
> > >>> "ken scharf" <wa2mzeNOSPAMB...@bellsouth.net> wrote in message
> > >>>news:Eqt6l.429$Y32.30@bignews8.bellsouth.net...
> > >>>>  > Even with it's 'hard vacuum' the 01 didn't have as good a 'getter' as
> > >>>> later tubes and would arc over with more than 130 volts or so.  It was
> > >>>> used as a transmitter before the type 202 tube became widely available,
> > >>>> but was a QRP thing, less than a watt input.
> > >>> Will it have enough output to drive a 245?
> > >> I'm sure it will drive a neutralized 245 to provide some gain.
> > >> You might not get enough drive for full power output from the 245.
> > >> (even if the 245 was run in class A, which requires NO driving power
> > >> you would still see SOME power gain).
>
> > > Hmmmm...You think class A at RF requires no driving power??
>
> > > Cheers,
> > > Tom
>
> > Only voltage, no current.
> > Of course some power gets wasted since resistance isn't zero and some
> > heat is generated in the coils, etc.  I guess there is some power factor
> > in the grid / cathode capacitance etc.  The input impedance of the '45
> > in class A SHOULD BE infinite.  It isn't, but it IS VERY HIGH.  So
> > except for losses, no driving power, only voltage.
>
> OK, to get an _accurate_ answer with respect to grid driving power,
> you need to account for the effects of the electrons going from
> cathode to plate as they pass by the grid.  At high enough frequency,
> this becomes significant.  This is quite apart from losses in elements
> external to the tube.  One reference about this is Terman's "Radio
> Engineers' Handbook, section 4, paragraph 9.  But just consider that
> it takes a certain amount of _energy_ to push those electrons around
> and control them, even if they don't actually ever come in contact
> with the grid.
>
> Cheers,
> Tom

Hey OM
I guess it's so ez to forget about the law. The law of conservation of
energy.
You can't create or destroy energy. Physics 101.

73 OM
n8zu



From -5269108779807506087
X-Google-Thread: fc2a5,610ea0ef9ba9a3fd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y1g2000pra.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Spectrum Analyser Using Tek 465
Date: Sat, 3 Jan 2009 10:41:41 -0800 (PST)
Organization: http://groups.google.com
Lines: 39
Message-ID: <f229cb0a-8de8-44cc-bd9b-91c484e07f22@y1g2000pra.googlegroups.com>
References: <gjd6fv$htk$1@news.albasani.net> <xqq6l.24140$701.1410@newsfe12.iad>
     <2319fda0-833a-4cd3-b63c-e3319929010d@z28g2000prd.googlegroups.com>
     <gjkphj$pke$1@news.albasani.net>
NNTP-Posting-Host: 76.226.136.131
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1231008101 8658 127.0.0.1 (3 Jan 2009 18:41:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Jan 2009 18:41:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y1g2000pra.googlegroups.com; posting-host=76.226.136.131;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
```

User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.17)
     Gecko/20080829 Firefox/2.0.0.17,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2043

On Jan 2, 5:16 am, M0WYM <Sanss...@peartreegreen.org> wrote:
> JIMMIE wrote:
>
> <SNIP>
>
>
>
> > I had a little one band kit radio that was varactor tuned in my hands
> > for a while and used the sweep voltage from a scope to to drive the
> > varactors. I was interesting but the scope didnt have enogh
> > persistence to show a good display. It really looked cool when you
> > used a marker generator with it in a dark room.
>
> > JImmie
>
> Jimmie,
>
> That sounds like fun - I will have to try that with my BITX20A which
> I modding to varactor tuning
>
> Charlie.
>
> --
> M0WYMwww.radiowymsey.org
>
> Sign today!http://petitions.pm.gov.uk/SaveShortwave/

Hey OM
You'll have to find that sweet spot for the ramp sweep frequency,
depends on the bandwidth of the scope or the persistence of the crt.
The sweep bandwidth depends on the varactor tuning voltage, not on
the frequency. So you have to adjust the peak voltage of the ramp to
adjust the bandwidth. On the scope where X input is your ramp voltage
and Y input is the detected output of the tuner, with the sweep on the
scope turned off. The resolution will depend on the input bandwidth of
the tuner.

73 OM
n8zu

From 7641315848091618025
X-Google-Thread: fc2a5,7ac17e8cf4cbeff2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.ntd.net!news.ntd.net.POSTED!not-for-mail

NNTP-Posting-Date: Sat, 27 Dec 2008 08:55:10 -0600
From: "philo" <philo@privacy.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Nwg5l.11115$x%.1336@nlpi070.nbdc.sbc.com>
<pan.2008.12.27.09.24.28.747909@localhost.localdomain>
Subject: Re: You know your passenger is a geek when ...
Date: Sat, 27 Dec 2008 08:59:07 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1933
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1933
X-Antivirus: avast! (VPS 081226-0, 12/26/2008), Outbound message
X-Antivirus-Status: Clean
Message-ID: <0sSdndsReO5T3MvUnZ2dnUVZ_rXinZ2d@ntd.net>
Lines: 14
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 209.242.235.160
X-Trace: sv3-SJ5KhkgiWy0hzoX2CdwQxRNdD5O8l3/
JhqLPpQaBRR8suUz8GZfmM7eR1rjbvtXtaGqzXijv1ttIZXl!
OdTTd0Pv3LqkmxPZXQ8hOUG6FKhYNbGN0Ttq0i0+vY5q6oOKdH4hrqkzKnBXi57S3u+nArR6YQEL!uTFr
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:1944

"geek" <geek@localhost.localdomain> wrote in message
news:pan.2008.12.27.09.24.28.747909@localhost.localdomain...
> On Fri, 26 Dec 2008 20:36:32 -0600, no wrote:
>
> > He notices that the digital display on your dash is a clock set to GMT.
>
> Good one!

Even worse is if the guy has a WWV implant
and notices that the clock is off by a second!

From 2655909187771469832
X-Google-Thread: fc2a5,7ac17e8cf4cbeff2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!
nwrddc02.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew

References: <Nwg5l.11115$x%.1336@nlpi070.nbdc.sbc.com>
<gj47s30um9@news3.newsguy.com>
<pan.2008.12.27.09.25.51.311061@localhost.localdomain>
Subject: Re: You know your passenger is a geek when ...
Lines: 28
MIME-Version: 1.0
Content-Type: text/plain;
    charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <mzr5l.1363$BC4.1323@nwrddc02.gnilink.net>
Date: Sat, 27 Dec 2008 15:10:10 GMT
NNTP-Posting-Host: 71.104.211.143
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1230390610 71.104.211.143 (Sat, 27 Dec 2008 10:10:10 EST)
NNTP-Posting-Date: Sat, 27 Dec 2008 10:10:10 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:1945

"geek" <geek@localhost.localdomain> wrote in message
news:pan.2008.12.27.09.25.51.311061@localhost.localdomain...
> On Fri, 26 Dec 2008 23:36:33 -0400, Bill M wrote:
>
> > no wrote:
> >> He notices that the digital display on your dash is a clock set to GMT.
> >>
> >>
> > Haha...
> >
> > I have a similar story.   I was at our local medical GP's office for
> > something and his cellphone started beeping CW. It spelled out the call
> > letters and said the name of the company (I've never heard cellfones do
> > that) and I said "Oh, it just said 'KJH123 Verizon Com'" or whatever it
was.
> >
> > He gave me the strangest look!
> >
> > I said, 'I mean your cellfone, it just sent something in Morse code'.
> >
> > He gave me the strange look again and says 'Uh, mmm-kay'.
> >
> > -Bill
>
> Ooooh, we can get CW ringtones? I'm in!

If only you could get it to interface with caller ID.

From 4595431584047862798

X-Google-Thread: fc2a5,ffb76f4b9cfbe75c,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.posted.cpinternet!news.posted.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 03 Jan 2009 14:01:59 -0600
Date: Sat, 03 Jan 2009 14:03:50 -0600
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Multicast Tunneling Experiments
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <0e-dnbzibvuqWcLUnZ2dnUVZ_oWdnZ2d@posted.cpinternet>
Lines: 29
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-VkUCcDku3EZ1JAuKcZbyf0c6MVMstBRjvnoJp42XB1WsNK9Wj9QwJfhuoKnQJIC7n0LfSUMuKZ8cSa6!c8awNQFZY1mP5EImfqfFzRty6CT2XeIjtAAWPSE7gqjlBYwHna3B3Iqtb5By4V0Q+0AOTmAH7QJT!Mkq4af/H/+Yg8Xoul9kUIA==
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1747

I would like to experiment with delivery of receiver audio over the Internet to multicast receivers (clients); currently I use SIP and RTP (conventional VoIP calls and UnRealMedia streams) which establish a single session per listener, which is not the best use of bandwidth and rapidly saturates a slow pipe with multiple listeners. Multicast delivery of audio avoids this problem but is not widely implemented on the public Internet. However, folks who happen to have a LAN connected to the 'Net through a *nix box can run a multicast routing process (example, 'mrouted') to encapsulate and tunnel multicast packets between LANs. The MBone virtual multicast network (and similar projects) used this approach.

Would anyone care to set up a multicast tunnel with me for experiments? I am running 'mrouted [version 3.8,prune,genid,mtrace]' and can provide binaries and source code for whatever flavor of *ix you can run on your edge router, or if you have Cisco IOS that supports DVMRP, that would work well too.

Once connected, either side can deliver video and audio to multiple hosts on the other side using no more bandwidth than is required for a single unicast session. The BBC for example offers higher quality radio streams

to users who access them over multicast as it conserves bandwidth and
reduces cost, but in the U.S. there is less interest at the moment.

My receiver happens to be homebrew, which makes this request at least
nominally on-topic ;)

TIA,

Michael

From -6262208934115112768
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe08.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <3z86l.34897$fs1.18091@newsfe05.iad> <c76f70ef-0cc1-49f8-
b161-897bd8b470a0@r37g2000prr.googlegroups.com>
<Eqt6l.429$Y32.30@bignews8.bellsouth.net> <6Du6l.44247$an4.16900@newsfe08.iad>
<kKKdnVTSmMnkS8fUnZ2dnUVZ_rydnZ2d@giganews.com>
<c%N6l.828$rF5.804@bignews6.bellsouth.net> <Q-
mdnXCTJryEJ8bUnZ2dnUVZ_t3inZ2d@giganews.com>
<sgP6l.825$vs6.577@bignews7.bellsouth.net> <lWR6l.13472$4u2.13449@newsfe02.iad>
<HwW6l.1077$gE4.631@bignews5.bellsouth.net>
Subject: Re: 01 tube as RF amp..
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <6qQ7l.70441$an4.16055@newsfe08.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe08.iad 1231016706 68.229.77.6 (Sat, 03 Jan 2009 21:05:06 UTC)
NNTP-Posting-Date: Sat, 03 Jan 2009 21:05:06 UTC
Organization: Cox
Date: Sat, 3 Jan 2009 16:05:14 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1748

I've noticed a lot of the early designs from the late 20s
and early 30s used cathode bias (resistors to B- off the
directly heated filaments) on triode RF power
amplifiers. Were they adding a small amount of
bias to make them easier to drive? Or, for what reason?

One other thing, I don't remember seeing parasitic
suppressors on early rigs; did the need become
evident when TV became popular in the late

40s? I know those early TXs could take off in
the nether regions :)

Pete

```
From 1708424388239338834
X-Google-Thread: fc2a5,f510d141b792e350,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!r15g2000prd.googlegroups.com!not-for-
mail
From: bapetrading@hotmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: www.08-trade.com supply cheap Nike, Adidas shoes, handbags,
     Sunglasses, Jeans, MP3, MP4, Psp, PS3, Watch, Tshirt, jordan, AF1, Dunk ,
     Airmax, Shox, diesel, Puma, Juicy, chloe, PRADA, FENDI, LV, GUCCI, chanel,
     DIOR, Coach Etc Trade Co.ltd
Date: Sun, 4 Jan 2009 04:11:14 -0800 (PST)
Organization: http://groups.google.com
Lines: 28
Message-ID: <acebaae2-e059-4843-8b30-629994984a62@r15g2000prd.googlegroups.com>
NNTP-Posting-Host: 121.205.209.6
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1231071074 15176 127.0.0.1 (4 Jan 2009 12:11:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 4 Jan 2009 12:11:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r15g2000prd.googlegroups.com; posting-host=121.205.209.6;
     posting-account=WHK1OwoAAAD-SlhaDfEbIIDnnhwq9WKW
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     TencentTraveler 4.0; Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1)
     ),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1749
```

www.08-trade.com

About us

08-Trade Sporting Goods Co.,Ltd

Sport shoes world, wide choice of brand name shoes such as Nike
Jordan , Air Force, Max, Addidas, Timberland, Dunk, Prada

,ps3,etc. We have abundant experience of shoes exporting and we also
deal in clothes. If you are interested in our

products and want to business please contact us without delay. We welcome customers from home and abroad. Wholesale or

retail is available.

Our company is located in Putian city, Fujian Province . It is famous
for its shoes exporting. We can offer you not only

competitive price but also good quality products. We'd like to
establish business relations with you on mutual benefit.

Thank you for the favor of your attention.

Mail : 08-trade@live.cn

MSN : 08trade@live.cn 08-trade@live.cn

From -3128950022892893341
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews3.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 01 tube as RF amp..
References: <3z86l.34897$fs1.18091@newsfe05.iad> <c76f70ef-0cc1-49f8-
b161-897bd8b470a0@r37g2000prr.googlegroups.com>
<Eqt6l.429$Y32.30@bignews8.bellsouth.net> <6Du6l.44247$an4.16900@newsfe08.iad>
<kKKdnVTSmMnkS8fUnZ2dnUVZ_rydnZ2d@giganews.com>
<c%N6l.828$rF5.804@bignews6.bellsouth.net> <Q-
mdnXCTJryEJ8bUnZ2dnUVZ_t3inZ2d@giganews.com>
<sgP6l.825$vs6.577@bignews7.bellsouth.net> <lWR6l.13472$4u2.13449@newsfe02.iad>
<HwW6l.1077$gE4.631@bignews5.bellsouth.net> <6qQ7l.70441$an4.16055@newsfe08.iad>
In-Reply-To: <6qQ7l.70441$an4.16055@newsfe08.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 32
Message-ID: <6P48l.2344$fE1.53@bignews3.bellsouth.net>
Date: Sun, 04 Jan 2009 10:47:50 -0500
NNTP-Posting-Host: 74.233.73.31
X-Complaints-To: abuse@bellsouth.net
X-Trace: bignews3.bellsouth.net 1231083842 74.233.73.31 (Sun, 04 Jan 2009 10:44:02
EST)
NNTP-Posting-Date: Sun, 04 Jan 2009 10:44:02 EST
Organization: BellSouth Internet Group
Xref: g2news2.google.com rec.radio.amateur.homebrew:2047

Tio Pedro wrote:
> I've noticed a lot of the early designs from the late 20s

> and early 30s used cathode bias (resistors to B- off the
> directly heated filaments) on triode RF power
> amplifiers. Were they adding a small amount of
> bias to make them easier to drive? Or, for what reason?
>
> One other thing, I don't remember seeing parasitic
> suppressors on early rigs; did the need become
> evident when TV became popular in the late
> 40s? I know those early TXs could take off in
> the nether regions :)
>
> Pete
>
>

Cathode bias resistors on rf power amps were a safety measure.
If the tube lost drive with no bias it could draw enough plate current
to MELT the plate, especially if run with a high voltage near (or OVER!)
the maximum ratings. Of course, using a C- supply would serve the
same purpose. Many rigs actually used batteries. Since the grid
current flowed in the reverse direction from the battery, a C battery
would actually be RECHARGED in normal use, so they tended to last a long
time.

Parasitic suppressors were not used in the early days since no one was
on the vhf frequencies there wasn't anybody to interfere with!

Actually, parasitic oscillation might show up in other ways making the
amplifier hard to load, and if detected this way the builder would take
steps to stabilize the circuit.

From 383365404429384777
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe13.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <3z86l.34897$fs1.18091@newsfe05.iad> <c76f70ef-0cc1-49f8-b161-897bd8b470a0@r37g2000prr.googlegroups.com>
<Eqt6l.429$Y32.30@bignews8.bellsouth.net> <6Du6l.44247$an4.16900@newsfe08.iad>
<kKKdnVTSmMnkS8fUnZ2dnUVZ_rydnZ2d@giganews.com>
<c%N6l.828$rF5.804@bignews6.bellsouth.net> <Q-mdnXCTJryEJ8bUnZ2dnUVZ_t3inZ2d@giganews.com>
<sgP6l.825$vs6.577@bignews7.bellsouth.net> <lWR6l.13472$4u2.13449@newsfe02.iad>
<HwW6l.1077$gE4.631@bignews5.bellsouth.net> <6qQ7l.70441$an4.16055@newsfe08.iad>
<6P48l.2344$fE1.53@bignews3.bellsouth.net>
Subject: Re: 01 tube as RF amp..
Lines: 33
X-Priority: 3

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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <n258l.2786$716.144@newsfe13.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe13.iad 1231084819 68.229.77.6 (Sun, 04 Jan 2009 16:00:19 UTC)
NNTP-Posting-Date: Sun, 04 Jan 2009 16:00:19 UTC
Organization: Cox
Date: Sun, 4 Jan 2009 11:00:28 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1751


"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:6P48l.2344$fE1.53@bignews3.bellsouth.net...
 >>
> Cathode bias resistors on rf power amps were a safety measure.
> If the tube lost drive with no bias it could draw enough plate current to
> MELT the plate, especially if run with a high voltage near (or OVER!) the
> maximum ratings. Of course, using a C- supply would serve the
> same purpose.  Many rigs actually used batteries.  Since the grid current
> flowed in the reverse direction from the battery, a C battery would
> actually be RECHARGED in normal use, so they tended to last a long time.
>
> Parasitic suppressors were not used in the early days since no one was on
> the vhf frequencies there wasn't anybody to interfere with!
>
> Actually, parasitic oscillation might show up in other ways making the
> amplifier hard to load, and if detected this way the builder would take
> steps to stabilize the circuit.
>

The reason I asked this that Bill (Exray) ran
 into some problems with his early TX project.
The old neon lamp trick showed
the presence of VHF parasitics, and adding suppressors
improved a few of the problems he was having.

We were discussing the use of cathode bias resistors, and
I couldn't quite grasp the reason for using them, but
tube protection makes sense.

Pete




From 6503545198505771387
X-Google-Thread: fc2a5,892931030c36cf0,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: FINNISH,ASCII
Subject: 2.Inarilainen 23.12 ampiaiskato.
```

From: Perttu Saari <perttu.saari@hyannis.com>
Date: Mon, 05 Jan 2009 21:50:00 -0600
Message-ID: <g79gil$25s$4@113.121.1.10>
References: <1215795968_22571@news-in1.superfeed.net>
Lines: 92
NNTP-Posting-Host: ip-195-24-77-134.server.lu
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!gnilink.net!nx01.iad.newshosting.com!newshosting.com!novia!transit3.readnews.com!news-xxxfer.readnews.com!news-out.readnews.com!transit4.readnews.com!news-out.usenet.com!prop.superfeed.net!news-in1.superfeed.net!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
X-Trace: news-in1.superfeed.net 1231213800 ip-195-24-77-134.server.lu (5 Jan 2009 21:50:00 -0600)
Followup-To: sfnet.harrastus,sfnet.opiskelu,sfnet.tietoliikenne,rec.radio.amateur.homebrew
MIME-Version: 1.0
Content-Type: text/plain;
Content-Transfer-Encoding: 8bit
Xref: g2news2.google.com rec.radio.amateur.homebrew:2049

Kaupunkisuunnittelu   [Sofia Williams, 08.05.2008]

Ensimm�inen ekokaupunki syntyy keskelle aavikkoa

Abu Dhabin l�helle rakennettava Masdar py�rii aurinkoenergialla ja lupaa vet�� 50 000 asukasta. Kaupunki ei tuota lainkaan hiilidioksidip��st�j�. �

T&T-Uutiskommentti   [Kari Ojanper�, 08.05.2008]

Mets�n myynti tarvitsee oman tosi-tv:n

Mets�teollisuuden kannattaisi rakentaa mets�n omistamisesta ja puun myynnist� osakepelaamiseen verrattava kiva ja tuottoisa harrastus. Mets�nomistajien jatkuva julkinen mollaaminen vie takuuvarmasti mets��n.   �
Aiemmin verkkopalvelussa
Paperin yhdestoista hetki ly� jo �
Teollisuuden halpisretki Ven�j�n metsiin loppui �
Stora Enso peitti muut syyt puun hintaan �

Hiilidioksidi   [Sofia Williams, 08.05.2008]

Islantilaiset kivett�v�t kasvihuonekaasuja vaarattomiksi

Ilmastoa l�mmitt�vien kasvihuonekaasujen karsimista yritet��n seuraavaksi kivett�m�ll� ja merenpohjan alle pakkaamalla. �

*No onnistuu se n�emm� ongelmitta, kun vaan edes yritet��n CO2 poistoa!

Suhdanteet   [Jarmo Sepp�l�, 08.05.2008]

Volkswagen tuo s�hk�auton markkinoille jo 2010

Euroopan suurin autoyhti� ottaa kaupallisen s�hk�auton tuotantoon vuonna 2010. Auto on tyrkyll� suurkaupunkien ekoautoksi. �

Bioenergia   [Jarmo Sepp�l�, 07.05.2008]

Turpeen poltto ajoi puun energiak�yt�n laskuun

L�mp�- ja voimalaitokset k�yttiv�t vuonna 2007 energiantuotantoon kiinteit� puupolttoaineita 12 prosenttia v�hemm�n ja mets�haketta 13 prosenttia v�hemm�n kuin vuotta aiemmin. P��syy k�yt�n v�henemiseen oli Metlan mukaan p��st�oikeuksien hintojen voimakas lasku, mik� lis�si etenkin turpeen polttoa. �

Strategia   [Paula Launonen, 08.05.2008]

Kemira yhdenmukaistaa energiaostot
Suomalainen kemikaalij�tti tavoittelee yhten�ist� energiastrategiaa kaikilla mantereilla. Oma tuotanto vakauttaa asemaa ep�varmassa ymp�rist�ss�. �

*Mik� on vastuu lehdell� t�ll�isen MEGAGIKAdisinformaartiohuijauksensa julkaistessaan? Vai onko koko ankan ainoa tarkoitus katsoa kansan aktivisuutta reagoida sysimustaan valtiovalheeseen? Ett� SUPO/Sis�ministeri p��sisi selville maamme ydinvastustajien tasoista toimia ja noin.

****ALLERT sitten n�hd��n miten valtavisa harhoissa ydinalamme uraanikaivoksiaan maahamme on tekem�ss�, hei HALOOO!!! Jotain rajaa!!*****

Sotaj�lkien siivous   [Raili Leino, 08.05.2008]

Sieni sitoo uraanin vaarattomaksi

*Lienee muuten maailmankaikkeuden ensimm�inen ja viimeinen sieni joka tuhoaa ALKUAINEITA 4,5miljardin vuoden s�teilykestokuormineen! Vaan jos lienee sellainen "Atomipommin r�j�hdyssieni " koko sekouutinen T�?!

Maaper�ss� esiintyv�t sienet voivat muuttaa ymp�rist�lle haitallisen k�yhdytetyn uraanin harmittomaksi. �

From 1299289381084899161

```
X-Google-Thread: 105eed,afb7c69c6643497c
X-Google-Thread: 10fafe,7fd40f11a6b803d3
X-Google-Thread: ffcf3,d963f26a418b15fd
X-Google-Thread: fc2a5,12dee750b351a0ef
X-Google-Attributes: gid105eed,gid10fafe,gidffcf3,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
feeder.erje.net!feeder2.news.saunalahti.fi!feeder1.news.saunalahti.fi!
nntp.inet.fi!central1.inet.fi!inet.fi!read4.inet.fi.POSTED!53ab2750!not-for-mail
From: "O.K." <kylkyl@juuriniin.com>
Newsgroups:
sfnet.harrastus.autot.maahantuonti,sfnet.harrastus.tanssi,sfnet.tori.myydaan.muut,
rec.radio.amateur.homebrew
References: <487516c3$0$15000$8f74b9c5@news.maxinetti.fi>
<3drhk.189$Rh.145@ulogisk.com> <vg6%k.3804$3M4.1132@newsfe20.ams2>
Subject: Re: testi-testi
Lines: 14
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <qSE8l.21$8g5.20@read4.inet.fi>
Date: Tue, 06 Jan 2009 08:45:10 GMT
NNTP-Posting-Host: 88.192.45.10
X-Complaints-To: abuse@inet.fi
X-Trace: read4.inet.fi 1231231510 88.192.45.10 (Tue, 06 Jan 2009 10:45:10 EET)
NNTP-Posting-Date: Tue, 06 Jan 2009 10:45:10 EET
Organization: Sonera Customer
Xref: g2news1.google.com sfnet.harrastus.autot.maahantuonti:144
sfnet.harrastus.tanssi:115 sfnet.tori.myydaan.muut:619
rec.radio.amateur.homebrew:1753

Have I ever...

--



          -o.k-

"Theo" <theodore.twyler@ntlworld.com> wrote in message
news:vg6%k.3804$3M4.1132@newsfe20.ams2...
> Have you Finnished?
>
>





From 3757347450646339731
X-Google-Thread: fc2a5,47e514c8168a12bd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!news2.google.com!news.glorb.com!feed.news.qwest.net!mpls-nntp-05.inet.qwest.net!news.qwest.net!not-for-mail
Date: Tue, 06 Jan 2009 00:46:25 -0800
From: PhattyMo <phattymo@not.net>
User-Agent: Thunderbird 2.0.0.19 (Windows/20081209)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Paralleling computer power supplies
References: <D366l.1734$Es4.1168@nwrddc01.gnilink.net>
<y776l.1774$BC4.1163@nwrddc02.gnilink.net> <mfmdnWpMk-UplMTUnZ2dnUVZ_gsAAAAA@web-ster.com> <7B96l.57095$X05.5123@newsfe03.iad>
<LomdncoRZ818zMTUnZ2dnUVZ_oDinZ2d@giganews.com>
In-Reply-To: <LomdncoRZ818zMTUnZ2dnUVZ_oDinZ2d@giganews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 29
Message-ID: <49631a4d$0$89875$815e3792@news.qwest.net>
Organization: Qwest Communications Corporation
NNTP-Posting-Host: 614cba30.news.qwest.net
X-Trace: DXC=>lHMOTMFEJDU\n47:\;RiEF85SKJoGf>D?
aVdY80FcLKHfQ1a503Y0LF85SKJoGf>DEb_eKO]>MUHS0j[Bgo2_o@oZS59fd877L
X-Complaints-To: news@qwest.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:2051

DaveM wrote:
> "Tio Pedro" <radioconnection@cox.net> wrote in message
> news:7B96l.57095$X05.5123@newsfe03.iad...
>> Is there a feedback sensing line for voltage regulation
>> in the computer supplies that is accessible?
>> One trick I've seen done is to diode OR
>> the supplies, with the sense lines on the common
>> supply bus, after the diodes. MACom did this
>> on the massive switchers we used in our old fiber
>> nodes at work.
>>
>
> There are no sense lines available externally on a PC power supply.

Actually,Alot of ATX supplies have atleast a sense line on one of the
3.3V connections to the motherboard,IIRC it's usually brown,or
orange,and of a smaller gauge than the main wire.
I've seen some older Compaq server supplies that had sense lines on each
rail.

 >You might
> take a look at the article on modding PC power supplies at
> http://www.pavouk.org/hw/en_atxps.html. It shows a typical schematic (albeit a
> bit aged now). Look at it and you can see where you might bring the sense lines
> out of a "master" unit and run them into the "slave" units. No guarantee that
> it will work, but I'd rather try that approach before the diode or resistor
> solutions.
> Of course, your PSUs will be different from the schematic in the web page, but
> it should be similar enough that you can figure it out.

From 5345328747359855142
X-Google-Thread: fc2a5,234ea08e4cf87005,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: FINNISH,ASCII
Subject: Re: Kinkku otettu uunista
From: Reima Meyer <reima@viola.net>
Date: Tue, 06 Jan 2009 14:00:37 -0600
Message-ID: <jozok.81$7d4.21@dorit.com>
References: <06adk.242$fR4.15@read4.inet.fi>
Lines: 38
NNTP-Posting-Host: 66.230.230.230
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!news-out.newsfeeds.com!
prop.superfeed.net!news-in1.superfeed.net!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
X-Trace: news-in1.superfeed.net 1231272037 66.230.230.230 (6 Jan 2009 14:00:37
-0600)
Followup-To: sfnet.atk.ms-
dos,sfnet.harrastus.melonta,sfnet.tori.myydaan.atk.ohjelmat,rec.radio.amateur.home
brew
MIME-Version: 1.0
Content-Type: text/plain;
Content-Transfer-Encoding: 8bit
X-Original-Bytes: 2906
X-Original-Lines: 49
Xref: g2news1.google.com rec.radio.amateur.homebrew:1755

S.K.22.05.2008."P�lytt�jien t�yskato uhkaa vied� kes�n marjat. Omenapuut ja herukat kukkivat monin paikoin jo t�ysill�, mutta puutarhoissa on hiljaista. P�lytt�ji� ei ole liikkeell�. S��n l�mpeneminenk��n ei lupaa helpotusta, sill� luonnonvaraisten p�lytt�jien kannat ovat romahtaneet l�hes OLEMATTOMIIN! vaarassa ovat my�s mets�marjat, siel� esim. mustikan, puolukan ja vadelman p�lytys on l�hes yksinomaan kimalaisten varassa.

Mehil�istenhoidonneuvoja Ari Sepp�l� on kartoittanut p�lytt�jien tilannetta koko Suomessa. Uutiset ovat olleet yksinomaan HUONOJA! -arvioisin, ett� kimalaisia ja ampiaisia on nyt korkeintaan KYMMENESOSA normaalista tasosta. Tutulla omenanviljelij�ll� on tarhassaan tuhat kukivaa puuta. H�n ei ole n�hnyt t�n� kev��n� ensimm�ist�k��n kimalaista. Kimalaiset ja ampiaiset katosivat yll�tt�en Suomesta viime kes�m�. Syyt� katoon ei tiedet�. Sepp�l� ei usko tilanteen korjaantuvan edes seuraavana kes�n�!"

Niin TUSKIN tarvitsee jatkaa? Poriin on yl�tuuleen matkaa TVO:lle jo yli 50km. Ja kuten todettiin 90% katoaluetta aina kukkak�rp�si� my�ten on aivan hurjaa. (Huvittavinta, ett� kyseiselle kaverille l�hetin vain parisen viikoa sitten tiedot ydinaavikoitumisfaktasta, ja KAS oivalteli! Ei sanan sanaa siit�, ettei Suomella olisi mehil�isist� ongelmia. Kiitokset Ari n�in netin kautta, oikeesti! no toisaalta kaverin netit kuulema turpoavat kiukkuisen kent�n kommentteja aiemmasta virhetiedotuksista! Taisi ryhm�kuri olla mukana.))) .. Ydinvoimalan p��st�t tappaa siis todetusti jo kautta Suomen! Joten H�VETK�� muuta t��ll� aiemmin ved�telleet!

Vaikka t��ll� yritet��n pajunk�ytt�� ties mit� "varmaa" virus,punkki,bakteri,mit�lie tekaisua" toteenn�ytetyksi niin Sepp�l� kuittaa t�llaiset luulot jopa yll�tt�en ilmoittamalla, ettei syist� ole hajuja! Porissa vain muutamasta talvipes�st� on jokusia punkkeja l�ytynmyt ja mehil�iskato on edelleen mysteeri. Niin.. .? Tai oikeammin tarkoittaa sit�, ett� YKSIK��N julkisuuden tautipelleilyharhautus ei vakuuta ket��n! Eli j�� j�ljelle j�lleen keran VAIN ne joista kuiskitaan ovien takana. Ydinionisaation aiheuttama suunnistuseksymiselle j�lleen tutusti pojot! Sanoi ydinklingonit mit� lyst��! Outoa kapinointia kent�lt�, jopa musta, ettei jotain ole tekaistu syyksi klassisista huijauksista, vaikka ydinala on parisen vuotta puukottanut? Lieneek� vaan niin, ettei valheet mehil�iskasvattajiin en�� uoppoa, kun netiss� puhelevat tiet�v�mm�t syyksi ydinavikoitumisia, ja beetasoihtup��st�j�?)

```
From -7563426662840882592
X-Google-Thread: 108122,70070abf2c73107d,start
X-Google-Thread: fc2a5,70070abf2c73107d,start
X-Google-Thread: 10b9c8,70070abf2c73107d,start
X-Google-Attributes: gid108122,gidfc2a5,gid10b9c8,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!news-out.readnews.com!
transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1228633501@panix.com>
Followup-To: poster
Date: 7 Jan 2009 02:05:01 -0500
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 09 Feb 2009 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1231311901@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1231311901 14537 166.84.1.2 (7 Jan 2009 07:05:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 7 Jan 2009 07:05:01 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
X-Original-Bytes: 2655
Xref: g2news1.google.com rec.radio.amateur.antenna:7204 rec.radio.amateur.dx:220
rec.radio.amateur.equipment:1002 rec.radio.amateur.homebrew:1756
rec.radio.info:434

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
```

Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

From -5750955991104790548
X-Google-Thread: fc2a5,ca04963427eb1bc2,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
w24g2000prd.googlegroups.com!not-for-mail
From: "Ross, NS7F" <rjtucke@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 0.1" computer jumper crimping tool
Date: Wed, 7 Jan 2009 10:47:30 -0800 (PST)
Organization: http://groups.google.com
Lines: 11
Message-ID: <129625ae-cb30-4672-a46b-1f0c8502c84f@w24g2000prd.googlegroups.com>

NNTP-Posting-Host: 98.174.202.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1231354051 25620 127.0.0.1 (7 Jan 2009 18:47:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 7 Jan 2009 18:47:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w24g2000prd.googlegroups.com; posting-host=98.174.202.120;
posting-account=dcJvXgoAAABRlhSfOMmtMBXWf-dUgzU6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9)
Gecko/2008052906 Firefox/3.0,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1757

Has anybody had any experience with those little cables used for connections on computer motherboards, typically to front panel LEDs, etc? The pins are 0.1" centered and would be extremely handy for routing +12v around while breadboarding stuff. I think the official name is IDT cables. However, whenever I search for them, I get the crimpers for the massive 40 or 80-conductor cables for ATA ribbons! I just want to make the little 2-3 conductor thingies...

Thanks for taking a look.

73 de Ross, NS7F

From 5857467695461817434
X-Google-Thread: fc2a5,ca04963427eb1bc2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <129625ae-cb30-4672-a46b-1f0c8502c84f@w24g2000prd.googlegroups.com>
Subject: Re: 0.1" computer jumper crimping tool
Lines: 23
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <T279l.3782$BC4.2541@nwrddc02.gnilink.net>
Date: Wed, 07 Jan 2009 19:06:27 GMT
NNTP-Posting-Host: 71.118.1.54

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X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1231355187 71.118.1.54 (Wed, 07 Jan 2009 14:06:27
EST)
NNTP-Posting-Date: Wed, 07 Jan 2009 14:06:27 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:1758
X-Original-Bytes: 2041


"Ross, NS7F" <rjtucke@gmail.com> wrote in message
news:129625ae-cb30-4672-a46b-1f0c8502c84f@w24g2000prd.googlegroups.com...
> Has anybody had any experience with those little cables used for
> connections on computer motherboards, typically to front panel LEDs,
> etc? The pins are 0.1" centered and would be extremely handy for
> routing +12v around while breadboarding stuff. I think the official
> name is IDT cables. However, whenever I search for them, I get the
> crimpers for the massive 40 or 80-conductor cables for ATA ribbons! I
> just want to make the little 2-3 conductor thingies...
>
> Thanks for taking a look.
>
> 73 de Ross, NS7F

I have only seen these done on a machine.  There are probably jaws available
for crimpers but I would think it would be a total fumble since they are so
small.

If you only need a few, then get them out of junk gear.  You can get eye
strain trying to chase stuff like that down on-line or in catalogs and have
to pad for the minimum order .




From -4061732560135529581
X-Google-Thread: fc2a5,ca04963427eb1bc2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!y1g2000pra.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 0.1" computer jumper crimping tool
Date: Wed, 7 Jan 2009 20:46:41 -0800 (PST)
Organization: http://groups.google.com
Lines: 24
Message-ID: <d7c8ccc1-2f0e-4d87-8de0-14e520c97a7f@y1g2000pra.googlegroups.com>
References: <129625ae-cb30-4672-a46b-1f0c8502c84f@w24g2000prd.googlegroups.com>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1231390001 5790 127.0.0.1 (8 Jan 2009 04:46:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Jan 2009 04:46:41 +0000 (UTC)
```

Complaints-To: groups-abuse@google.com
Injection-Info: y1g2000pra.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.5)
     Gecko/2008120122 Firefox/3.0.5,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2056

On Jan 7, 10:47=A0am, "Ross, NS7F" <rjtu...@gmail.com> wrote:
> Has anybody had any experience with those little cables used for
> connections on computer motherboards, typically to front panel LEDs,
> etc? The pins are 0.1" centered and would be extremely handy for
> routing +12v around while breadboarding stuff. I think the official
> name is IDT cables. However, whenever I search for them, I get the
> crimpers for the massive 40 or 80-conductor cables for ATA ribbons! I
> just want to make the little 2-3 conductor thingies...
>
> Thanks for taking a look.
>
> 73 de Ross, NS7F

"IDC" perhaps? "Insulation displacement connectors." The ones that
go on ribbon cable can usually be installed using a vice, or perhaps
even a pair of pliers for a small one. The ones I tend to use because
they are available to me have loose contacts that crimp one at a time
to wires that have been stripped, and then snap into bodies. I use
them exactly as you suggest, for running power supply connections to
little boards. Both DigiKey and Mouser catalogs have large connector
sections, and I'm sure you can find appropriate ones in there.

Cheers,
Tom

From -7630206583264158128
X-Google-Thread: fc2a5,ca04963427eb1bc2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <129625ae-cb30-4672-a46b-1f0c8502c84f@w24g2000prd.googlegroups.com>
<d7c8ccc1-2f0e-4d87-8de0-14e520c97a7f@y1g2000pra.googlegroups.com>
Subject: Re: 0.1" computer jumper crimping tool
Lines: 59
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <31l9l.460276$TT4.6927@attbi_s22>

NNTP-Posting-Host: 173.21.179.211
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1231412415 173.21.179.211 (Thu, 08 Jan 2009 11:00:15 GMT)
NNTP-Posting-Date: Thu, 08 Jan 2009 11:00:15 GMT
Organization: AT&T ASP.att.net
Date: Thu, 08 Jan 2009 11:00:15 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:1760

"K7ITM" <k7itm@msn.com> wrote in message
news:d7c8ccc1-2f0e-4d87-8de0-14e520c97a7f@y1g2000pra.googlegroups.com...
On Jan 7, 10:47 am, "Ross, NS7F" <rjtu...@gmail.com> wrote:
> Has anybody had any experience with those little cables used for
> connections on computer motherboards, typically to front panel LEDs,
> etc? The pins are 0.1" centered and would be extremely handy for
> routing +12v around while breadboarding stuff. I think the official
> name is IDT cables. However, whenever I search for them, I get the
> crimpers for the massive 40 or 80-conductor cables for ATA ribbons! I
> just want to make the little 2-3 conductor thingies...
>
> Thanks for taking a look.
>
> 73 de Ross, NS7F

"IDC" perhaps? "Insulation displacement connectors." The ones that go on ribbon cable can usually be installed using a vice, or perhaps even a pair of pliers for a small one. The ones I tend to use because they are available to me have loose contacts that crimp one at a time to wires that have been stripped, and then snap into bodies. I use them exactly as you suggest, for running power supply connections to little boards. Both DigiKey and Mouser catalogs have large connector sections, and I'm sure you can find appropriate ones in there.

Cheers,
Tom

And, after pinching the "tabs" on both the bared wire as well as the insulation with a small pair of forceps for more years than I care to remember, and being shocked at the $350 price tag for the tool for them in Digi, I was directed to Jameco. They have

http://www.jameco.com/webapp/wcs/stores/servlet/ProductDisplay?
langId=-1&storeId=10001&catalogId=10001&productId=159266&

(If that URL gets screwed up, it's their part number 159266. It crimps nicely and curls the tabs around the conductor and pinches the ends into the wire)
At $12.95, (Made you know where, but appears to be sturdy even after considerable use), makes me want to cry that I hadn't found it earlier.

W4ZCB

From 6124102983991322281
X-Google-Thread: fc2a5,ca04963427eb1bc2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!w1g2000prm.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 0.1" computer jumper crimping tool
Date: Thu, 8 Jan 2009 05:56:38 -0800 (PST)
Organization: http://groups.google.com
Lines: 52
Message-ID: <5aa89203-c469-427d-8c82-6a43133dd99e@w1g2000prm.googlegroups.com>
References: <129625ae-cb30-4672-a46b-1f0c8502c84f@w24g2000prd.googlegroups.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1231422999 8663 127.0.0.1 (8 Jan 2009 13:56:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Jan 2009 13:56:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w1g2000prm.googlegroups.com; posting-host=170.121.14.12;
posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1761

On Jan 7, 1:47=A0pm, "Ross, NS7F" <rjtu...@gmail.com> wrote:
> Has anybody had any experience with those little cables used for
> connections on computer motherboards, typically to front panel LEDs,
> etc? The pins are 0.1" centered and would be extremely handy for
> routing +12v around while breadboarding stuff. I think the official
> name is IDT cables. However, whenever I search for them, I get the
> crimpers for the massive 40 or 80-conductor cables for ATA ribbons! I

> just want to make the little 2-3 conductor thingies...

Ross -
  There are 0.1" dual-row headers that use 0.05" spacing ribbon cables, and the connectors crimp on. These are "IDC" or "Insulation Displacement Connectors". You can assemble these with a little vise quite reliably. You don't often see these below 10 conductors, and I don't think this is what you are asking about because you want the connectors for 2 or 3 or 4 wires. But you'd be surprised how quickly you need an extra conductor here and there and pretty soon end up at 10. And they are so cheap and so reliably assembled that even though you don't need 10 conductors, you might want to use them anyway. As long as you line up the polarizing stripe on the cable with the socket, these are very reliably and very quickly assembled using nothing more than a vise.

  There are also single-row headers as well as dual-row headers that use housings and discrete wires. These are "rectangular" connectors, and I think this is what you want. The board side is called a "header" and the wire side has a "housing" which holds the contacts. The contacts are crimped onto the wires and there are different contacts for different size wires. There are some specialized versions of these for terminating miniature coax. There are many manufacturers of housings and pins/sockets and crimpers and usually it's best to make sure that you are using all the matching stuff. Molex and AMP are the names to see in the catalogs. A "production" crimper can set you back many hundred dollars but a "prototype" crimper for $10-$20 is what you want. If you use a crimper that does not match the contact, the first time you tug on the wire the contact will stay in the housing and the wire will slide right out of the contact. So make sure you order matching crimper and housing and contacts.

  It's real boring to terminate more than just onesy-twosy wires using the handheld crimpers. That's why the "IDC" versions for ribbon cable are so popular. Even though you're not asking for the IDC/ribbon cable versions, if I were you I'd seriously consider using them even though you don't think you need so many contacts.

  There are also IDC versions of these single-row connectors for discrete wire termination. They only work reliably for very narrow wire ranges, and if you aren't working with exactly matching wires I'd advise that you stay away from them.

Tim N3QE

From 5059552043056376396
X-Google-Thread: fc2a5,ca04963427eb1bc2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!news.mixmin.net!fmmck

From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 0.1" computer jumper crimping tool
Date: Thu, 08 Jan 2009 13:56:04 -0500
Organization: Mixmin
Lines: 20
Message-ID: <fmmck-9C242A.13560208012009@news.mixmin.net>
References: <129625ae-cb30-4672-a46b-1f0c8502c84f@w24g2000prd.googlegroups.com>
<d7c8ccc1-2f0e-4d87-8de0-14e520c97a7f@y1g2000pra.googlegroups.com>
<31l9l.460276$TT4.6927@attbi_s22>
NNTP-Posting-Host: b5f86689c5ecb7c7d882c7f0ed454369
X-Complaints-To: abuse@mixmin.net
NNTP-Posting-Date: Thu, 8 Jan 2009 18:56:12 +0000 (UTC)
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2059

In article <31l9l.460276$TT4.6927@attbi_s22>,
 "Harold E. Johnson" <W4ZCB@mchsi.com> wrote:

> And, after pinching the "tabs" on both the bared wire as well as the
> insulation with a small pair of forceps for more years than I care to
> remember, and being shocked at the $350 price tag for the tool for them in
> Digi, I was directed to Jameco. They have
>
> http://www.jameco.com/webapp/wcs/stores/servlet/ProductDisplay?langId=-1&store
> Id=10001&catalogId=10001&productId=159266&

Harold-

That tool looks a lot like the Radio Shack Catalog Number 64-410,
"Crimping Tool With Wire Cutter For Installing Solderless Terminals".
The Radio Shack tool has five crimp wells instead of two or three on the
Jameco Tool, and crimps 14 through 28 AWG terminals.

Fred
K4DII

From 8443402442450890173
X-Google-Thread: fc2a5,ca04963427eb1bc2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!k36g2000yqe.googlegroups.com!not-for-mail
From: Leon <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 0.1" computer jumper crimping tool
Date: Fri, 9 Jan 2009 02:43:33 -0800 (PST)
Organization: http://groups.google.com
Lines: 27
Message-ID: <4e73ca8b-961f-43f7-9347-68de62cef2a4@k36g2000yqe.googlegroups.com>
References: <129625ae-cb30-4672-a46b-1f0c8502c84f@w24g2000prd.googlegroups.com>
     <d7c8ccc1-2f0e-4d87-8de0-14e520c97a7f@y1g2000pra.googlegroups.com>

```
     <31l9l.460276$TT4.6927@attbi_s22>
<fmmck-9C242A.13560208012009@news.mixmin.net>
NNTP-Posting-Host: 86.135.13.97
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1231497813 10402 127.0.0.1 (9 Jan 2009 10:43:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 9 Jan 2009 10:43:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k36g2000yqe.googlegroups.com; posting-host=86.135.13.97;
     posting-account=QWZLZQkAAADFmB_RJlmk3T-GvINRaZti
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.0.5)
     Gecko/2008120122 Firefox/3.0.5,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2060

On 8 Jan, 18:56, Fred McKenzie <fm...@aol.com> wrote:
> In article <31l9l.460276$TT4.6927@attbi_s22>,
> =A0"Harold E. Johnson" <W4...@mchsi.com> wrote:
>
> > And, after pinching the "tabs" on both the bared wire as well as the
> > insulation with a small pair of forceps for more years than I care to
> > remember, and being shocked at the $350 price tag for the tool for them=
 in
> > Digi, I was directed =A0to Jameco. They have
>
> >http://www.jameco.com/webapp/wcs/stores/servlet/ProductDisplay?langId...
> > Id=3D10001&catalogId=3D10001&productId=3D159266&
>
> Harold-
>
> That tool looks a lot like the Radio Shack Catalog Number 64-410,
> "Crimping Tool With Wire Cutter For Installing Solderless Terminals". =A0
> The Radio Shack tool has five crimp wells instead of two or three on the
> Jameco Tool, and crimps 14 through 28 AWG terminals.
>
> Fred
> K4DII

I use the same low-cost tool that I use for crimping Molex KK
terminals. It's not the right tool, but it works OK if I'm careful.

Leon


From 806335286106572l992
X-Google-Thread: fc2a5,ca04963427eb1bc2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!spln!extra.newsguy.com!
newsp.newsguy.com!mzenier
From: mzenier@eskimo.com (Mark Zenier)
```

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 0.1" computer jumper crimping tool
Date: Thu, 8 Jan 2009 23:39:37 GMT
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 29
Message-ID: <gk82ea01rad@enews2.newsguy.com>
References: <129625ae-cb30-4672-a46b-1f0c8502c84f@w24g2000prd.googlegroups.com>
NNTP-Posting-Host:
p54d1bfbfff00000039c785dd912dbe5695f57bd8cc15fdd4be79de0161753f2d.newsdawg.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:1764

In article <129625ae-cb30-4672-a46b-1f0c8502c84f@w24g2000prd.googlegroups.com>,
Ross, NS7F <rjtucke@gmail.com> wrote:
>Has anybody had any experience with those little cables used for
>connections on computer motherboards, typically to front panel LEDs,
>etc? The pins are 0.1" centered and would be extremely handy for
>routing +12v around while breadboarding stuff. I think the official
>name is IDT cables. However, whenever I search for them, I get the
>crimpers for the massive 40 or 80-conductor cables for ATA ribbons! I
>just want to make the little 2-3 conductor thingies...
>
>Thanks for taking a look.

Try Jameco. They have '.100" Non-Polarized Connector Housings and Crimp
Pins' (Page 62 in the November 2008) catalog. (Part No. 100766 for
the female terminal, to disambiguate things). This is the closest (or
the same stuff) that I've seen to that used for computer reset button
wiring and the like. The recommended crimper is cheap, too at $12.95.

Another possible is the Molex KK line, with .100" spacing.

And for premium stuff, Dupont Berg Mini-PV, but if you have
to ask, you can't afford it.

Also many outfits (Molex, Panduit) have single row .100" inch
IDC connectors that take individual wires. (Newark?)

Mark Zenier mzenier@eskimo.com
Googleproofaddress(account:mzenier provider:eskimo domain:com)

From -8276133424997467770
X-Google-Thread: fc2a5,d292f439035d3da3,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.germany.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!feeder2.news.saunalahti.fi!
reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Kari B <kba@nic.fi>
User-Agent: Thunderbird 2.0.0.19 (Windows/20081209)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew

Subject: Noise power measurement...
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 15
Message-ID: <8kO9l.116622$_03.110330@reader1.news.saunalahti.fi>
Date: Fri, 09 Jan 2009 22:17:50 +0200
NNTP-Posting-Host: 85.77.201.32
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1231532420 85.77.201.32 (Fri, 09 Jan 2009 22:20:20 EET)
NNTP-Posting-Date: Fri, 09 Jan 2009 22:20:20 EET
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:2062

Hi all

I have got very simple noise source for receiver measurements, but
noise power verification makes some trouble...
Old analyzer noise floor is around -125dbm without input and noise power
using 10kHz BW is -95dbm using display 'peak' setting and long video
filter at 30MHz...

Same setup with display 'inf' setting shows -105dbm for the noise.

Sorry I don't have a manual for the analyzer to find what the 'inf'
means... but which value would be acceptable ?
I would use the first one ?

br Kari B

From -7022940436353736005
X-Google-Thread: fc2a5,ca04963427eb1bc2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!t39g2000prh.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 0.1" computer jumper crimping tool
Date: Sat, 10 Jan 2009 07:08:35 -0800 (PST)
Organization: http://groups.google.com
Lines: 16
Message-ID: <bdabc36f-2259-41c0-9281-e5e33e9f201a@t39g2000prh.googlegroups.com>
References: <129625ae-cb30-4672-a46b-1f0c8502c84f@w24g2000prd.googlegroups.com>
     <gk82ea01rad@enews2.newsguy.com>
NNTP-Posting-Host: 76.226.137.177
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1231600115 29484 127.0.0.1 (10 Jan 2009 15:08:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 10 Jan 2009 15:08:35 +0000 (UTC)

```
Complaints-To: groups-abuse@google.com
Injection-Info: t39g2000prh.googlegroups.com; posting-host=76.226.137.177;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.17)
     Gecko/20080829 Firefox/2.0.0.17,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2063



>
> Try Jameco.  They have '.100" Non-Polarized Connector Housings and Crimp
> Pins'  (Page 62 in the November 2008) catalog.  (Part No. 100766 for
> the female terminal, to disambiguate things).  This is the closest (or
> the same stuff) that I've seen to that used for computer reset button
> wiring and the like.  The recommended crimper is cheap, too at $12.95.
>

Hey OM
From a shortened URL the sockets are here online: http://tinyurl.com/8sr7ll
On that page there's a link to page 64 that lists the shells.

73 OM

n8zu



From -7213222396252184286
X-Google-Thread: fc2a5,696d08425b2846c9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o4g2000pra.googlegroups.com!not-for-
mail
From: joeturn <joeturn2000@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio Shack Pro 2011 scanner schematic
Date: Sat, 27 Dec 2008 08:37:46 -0800 (PST)
Organization: http://groups.google.com
Lines: 16
Message-ID: <7a5d33ec-770d-445e-884f-d4de71e1281b@o4g2000pra.googlegroups.com>
References: <8eac5907-d1ed-4cba-bff9-0be68557b4e3@f18g2000vbf.googlegroups.com>
     <eb8e9b49-5957-48ed-a844-dbdc667e64ef@x14g2000yqk.googlegroups.com>
NNTP-Posting-Host: 24.95.252.127
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1230395866 12704 127.0.0.1 (27 Dec 2008 16:37:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Dec 2008 16:37:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o4g2000pra.googlegroups.com; posting-host=24.95.252.127;
     posting-account=TOBUfggAAAC5Ow7sgid-1fbF1N9O6T1h
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1946
```

Service manuals are hard to come by anymore but I'll bet this guy can
fix you right up!

http://www.qsl.net/ka2pyj/pro2011.htm

I have a pro 2096 I bought off ebay for $50.00 as a tech special
guaranteed to be DOA

I shiped it to rat shack and they returned it saying parts no longer
available now I'm at $84.00 and counting!

I found on fixya, a problem with the ribbon connections but the tech
said the 103 pin chip was shorted!!

I refuse to believe that as it was one of the first batch that could
be modified to no gap status!! ! Now what shall I do??

```
From 754651770855879477
X-Google-Thread: 108122,bec8c143b2a8b16b
X-Google-Thread: fc2a5,bec8c143b2a8b16b
X-Google-Thread: 107ada,bec8c143b2a8b16b
X-Google-Thread: 110c99,bec8c143b2a8b16b
X-Google-Thread: 111320,bec8c143b2a8b16b
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o4g2000pra.googlegroups.com!not-for-
mail
From: joeturn <joeturn2000@yahoo.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: Re: Big Boobs on Parade
Date: Sat, 27 Dec 2008 09:03:14 -0800 (PST)
Organization: http://groups.google.com
Lines: 1
Message-ID: <a4ca7bd2-83b9-4c4a-a3e7-eea10cd152cc@o4g2000pra.googlegroups.com>
References: <0b599d6c-9a90-4bac-9b52-94a5c583fa29@u18g2000pro.googlegroups.com>
NNTP-Posting-Host: 24.95.252.127
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1230397395 7003 127.0.0.1 (27 Dec 2008 17:03:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Dec 2008 17:03:15 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o4g2000pra.googlegroups.com; posting-host=24.95.252.127;
     posting-account=TOBUfggAAAC5Ow7sgid-1fbF1N9O6T1h
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:1171
rec.radio.amateur.homebrew:1947 rec.radio.amateur.misc:2060 rec.running:7642
rec.scouting.issues:1822
```

http://redtube.com/ I like this one better

```
From -8800817043552774269
X-Google-Thread: fc2a5,7ac17e8cf4cbeff2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!newsfeed.news2me.com!
newspump.sol.net!post2.nntp.sol.net!posts.news.twtelecom.net!nnrp3.twtelecom.net!
not-for-mail
From: "Garry W Tidler" <gtidler@bluemarble.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Nwg5l.11115$x%.1336@nlpi070.nbdc.sbc.com>
<gj47s30um9@news3.newsguy.com>
<pan.2008.12.27.09.25.51.311061@localhost.localdomain>
<mzr5l.1363$BC4.1323@nwrddc02.gnilink.net>
In-Reply-To: <mzr5l.1363$BC4.1323@nwrddc02.gnilink.net>
Subject: Re: You know your passenger is a geek when ...
Date: Sat, 27 Dec 2008 12:20:39 -0500
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
Lines: 13
Message-ID: <495663f2$0$3714$39cecf19@news.twtelecom.net>
Organization: Time-Warner Telecom
NNTP-Posting-Date: 27 Dec 2008 17:20:50 GMT
NNTP-Posting-Host: 377e40f5.news.twtelecom.net
X-Trace: DXC=7d8lgD?UVO]I<hWO\?DTQQC_A=>8kQj6]=_1NR_H?JP]IlNgE;MlE]^hS?
Oj6[1LOSmPKA_oh<>bV
X-Complaints-To: abuse@twtelecom.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:1651
```

CW ring tones

click here >   http://www.planetofnoise.com/midi/morse2mid.php   <click

here

Garry WW9GT

```
From 6133621489727367337
X-Google-Thread: fc2a5,afcc8c7a6e5626b,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news2.google.com!postnews.google.com!o40g2000prn.googlegroups.com!not-for-
mail
From: nandi <bodakka@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Kurukshetra '09
Date: Fri, 16 Jan 2009 06:44:48 -0800 (PST)
Organization: http://groups.google.com
Lines: 14
Message-ID: <35a3bbdb-0572-40ae-8730-4af3bad743d1@o40g2000prn.googlegroups.com>
NNTP-Posting-Host: 116.75.194.39
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1232117088 15828 127.0.0.1 (16 Jan 2009 14:44:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 16 Jan 2009 14:44:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o40g2000prn.googlegroups.com; posting-host=116.75.194.39;
     posting-account=UapMsAoAAABLv5WXwYRw5KP6SzKVOzjy
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
     .NET CLR 2.0.50727; Media Center PC 5.0; InfoPath.2; .NET CLR 3.5.30729; .NET
     CLR 3.0.30618),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2064
```

Kurukshetra =9209, the annual international techno-management festival of the College of Engineering, Guindy, Anna University, Chennai, India, is here with a myriad of events to test your skills and showcase your talents in front of some of the brightest brains of the country.

Do check out Fox Hunt - A transmitter finding event for the amateur radio enthusiast, this event is aimed at boosting the spirit of the age old radio techniques. One of the best kept secrets in Ham radio, Fox hunt is a fresh start to a new adventure.

This SCIENTIFIC GAME helps every enthusiast to gain knowledge about radio direction finding, attenuation techniques and associated concepts like direct signal and reflected signal detection, orientation etc.

Visit the official site www.kurukshetra.org.in for more details.

```
From 851340702483203145
```

```
X-Google-Thread: fc2a5,2fc5f03994f48b12,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 16 Jan 2009 23:59:35 -0600
From: "Lynn" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: no traffic here?
Date: Fri, 16 Jan 2009 21:59:34 -0800
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
Message-ID: <5Mqdnb1dj5da7uzUnZ2dnUVZ_vOdnZ2d@giganews.com>
Lines: 1
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-jP5eVupFTOk++L8IrcB9zWQiI1NKxRBV/j4jig0/
iz59D36WTMohngmdiFjQ1qaQ1j8eeVkPb9Bb86v!E/FsFtYiEvNh9S2/bpUBO53DMgJ/
9DMm1sFgByMSlTIQLcitHfRs1uwNyowxHgKc4PzUE4ZY
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1768
```

Test to see if group is still alive in giganews

```
From -4177144924941818065
X-Google-Thread: fc2a5,696d08425b2846c9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2!news.glorb.com!
news.cse.ohio-state.edu!pitt.edu!egsner!news.cirr.com!freeshell.org!sdog2008
From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio Shack Pro 2011 scanner schematic
Date: Sat, 27 Dec 2008 18:35:36 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 58
Message-ID: <Pine.NEB.4.64.0812271823530.7863@sdf.lonestar.org>
References: <8eac5907-d1ed-4cba-bff9-0be68557b4e3@f18g2000vbf.googlegroups.com>
  <eb8e9b49-5957-48ed-a844-dbdc667e64ef@x14g2000yqk.googlegroups.com>
```

<7a5d33ec-770d-445e-884f-d4de71e1281b@o4g2000pra.googlegroups.com>
NNTP-Posting-Host: freeshell.org
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: chessie.cirr.com 1230402959 1832 192.94.73.30 (27 Dec 2008 18:35:59 GMT)
X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Sat, 27 Dec 2008 18:35:59 +0000 (UTC)
In-Reply-To: <7a5d33ec-770d-445e-884f-d4de71e1281b@o4g2000pra.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:1949

On Sat, 27 Dec 2008, joeturn wrote:

> Date: Sat, 27 Dec 2008 08:37:46 -0800 (PST)
> From: joeturn <joeturn2000@yahoo.com>
> Newsgroups: rec.radio.amateur.homebrew
> Subject: Re: Radio Shack Pro 2011 scanner schematic
>
> Service manuals are hard to come by anymore but I'll bet this guy can fix you right up!
>
> http://www.qsl.net/ka2pyj/pro2011.htm
>
> I have a pro 2096 I bought off ebay for $50.00 as a tech special guaranteed to be DOA
>
> I shiped it to rat shack and they returned it saying parts no longer available now I'm at $84.00 and counting!
>
> I found on fixya, a problem with the ribbon connections but the tech said the 103 pin chip was shorted!!
>
> I refuse to believe that as it was one of the first batch that could be modified to no gap status!! ! Now what shall I do??

There are guys who will go to the limits to repair DOA gear.

Maybe some other guys here will encourage you with suggestions. My suggestion is, unless there are some very unique technical specifications that you really need, to cut your losses up to this point and buy something that you have a high probability expectation will work, out of the box, and has some warranty protection (which usually means they may just give you a new device instead of fixing the old one).

I know someone who is working on a dead ham transceiver, all solid state and major ricebox brand, who has already spent enormous numbers of hours with little progress and with the full knowledge that most of the chips and sub-assemblies are no longer available or supported by the company.

We have been in this "new" throw-away economy evern since chips started coming out where the technology understandably must progress in a manner that automatically makes obsolete the prior generation of technology for the purpose of causing ownership of capabilities to be more expensive than if the older technology were made repairable.

```
From -8140682430488004162
X-Google-Thread: fc2a5,7ac17e8cf4cbeff2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!
nwrddc02.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Nwg5l.11115$x%.1336@nlpi070.nbdc.sbc.com>
<gj47s30um9@news3.newsguy.com>
<pan.2008.12.27.09.25.51.311061@localhost.localdomain>
<mzr5l.1363$BC4.1323@nwrddc02.gnilink.net>
<495663f2$0$3714$39cecf19@news.twtelecom.net>
Subject: Re: You know your passenger is a geek when ...
Lines: 12
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <aMw5l.1422$BC4.186@nwrddc02.gnilink.net>
Date: Sat, 27 Dec 2008 21:05:10 GMT
NNTP-Posting-Host: 71.104.211.143
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1230411910 71.104.211.143 (Sat, 27 Dec 2008 16:05:10
EST)
NNTP-Posting-Date: Sat, 27 Dec 2008 16:05:10 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:1653
X-Original-Bytes: 1444
```

Bitchin'
"Garry W Tidler" <gtidler@bluemarble.net> wrote in message
news:495663f2$0$3714$39cecf19@news.twtelecom.net...
>
> CW ring tones
> click here >   http://www.planetofnoise.com/midi/morse2mid.php   <click
> here
>
>
> Garry WW9GT
>

From 2254795046698590372
X-Google-Thread: fc2a5,2fc5f03994f48b12
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 17 Jan 2009 01:08:04 -0600
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: no traffic here?
References: <5Mqdnb1dj5da7uzUnZ2dnUVZ_vOdnZ2d@giganews.com>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Fri, 16 Jan 2009 22:33:46 -0800
Message-ID: <ana846-ilj.ln1@radagast.org>
Lines: 9
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.159.209.148
X-Trace: sv3-GG2joBxjFyzZQ3+i5MnjBSzZWKf9vslPi9w/
qRuAQPrtSMuuuMhzklFn4ZGsJO52sjtiL6nxhWqed8d!
0Wbpm34l7QuVsn0KH2lPoplP7EJWQRJAOPB4zYF4bEnzouTCSo96Yc+vvlUnSw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2066

>Test to see if group is still alive in giganews

Seems to be!

--
Dave Platt <dplatt@radagast.org>   AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

```
From -7089126197998808717
X-Google-Thread: fc2a5,2fc5f03994f48b12
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!291cd109!not-for-
mail
From: alchazz <no.spam@wanted.com>
Subject: Re: no traffic here?
Newsgroups: rec.radio.amateur.homebrew
References: <5Mqdnb1dj5da7uzUnZ2dnUVZ_vOdnZ2d@giganews.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 7
Message-ID: <FCmcl.197$Aw2.42@nwrddc02.gnilink.net>
Date: Sat, 17 Jan 2009 15:15:49 GMT
NNTP-Posting-Host: 173.48.59.231
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1232205349 173.48.59.231 (Sat, 17 Jan 2009 10:15:49
EST)
NNTP-Posting-Date: Sat, 17 Jan 2009 10:15:49 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:2067
X-Original-Bytes: 1022

On Fri, 16 Jan 2009 21:59:34 -0800, Lynn wrote:

> Test to see if group is still alive in giganews

I thought you only used your ham radios. What are you doing on the
internet?  ;-)



From -8648050112856682099
X-Google-Thread: fc2a5,696d08425b2846c9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!v4g2000yqa.googlegroups.com!not-for-
mail
From: joeturn <joeturn2000@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio Shack Pro 2011 scanner schematic
Date: Sat, 27 Dec 2008 13:43:21 -0800 (PST)
Organization: http://groups.google.com
Lines: 11
Message-ID: <f2ff4555-35d9-419f-81ac-1fdd49298dcf@v4g2000yqa.googlegroups.com>
References: <8eac5907-d1ed-4cba-bff9-0be68557b4e3@f18g2000vbf.googlegroups.com>
     <eb8e9b49-5957-48ed-a844-dbdc667e64ef@x14g2000yqk.googlegroups.com>
     <7a5d33ec-770d-445e-884f-d4de71e1281b@o4g2000pra.googlegroups.com>
     <Pine.NEB.4.64.0812271823530.7863@sdf.lonestar.org>
NNTP-Posting-Host: 24.95.252.127
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1230414202 3171 127.0.0.1 (27 Dec 2008 21:43:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Dec 2008 21:43:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v4g2000yqa.googlegroups.com; posting-host=24.95.252.127;
     posting-account=TOBUfggAAAC5Ow7sgid-1fbF1N9O6T1h
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1654

Throw aways:
Actually I saw that coming about 20 years ago with the works in a
drawer by magnovox.
I ordered a surface mount hearing kit from Ramsey!! Had to use a
toothpic and super glue the components into place before I could
solder them! Back then the flex monuted magnifier was saficient,
now ,it requires a jewlers loop to see them!!..
However GRE should have offered to fix mine as it was the GRE
400/500 .They never answered my email??
Oh well I'll catch someone who wants to tinker or find a junk one in a
pawn shop??



From 1533948473571682746
X-Google-Thread: fc2a5,7ac17e8cf4cbeff2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
feeder.erje.net!newsfeed1.swip.net!nntpserver.swip.net!not-for-mail
Message-ID: <4956A6C0.5000306@nowhere.com>
From: nobody <nobody@nowhere.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.0.2) Gecko/
20021120 Netscape/7.01
X-Accept-Language: sv, en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: You know your passenger is a geek when ...
References: <Nwg5l.11115$x%.1336@nlpi070.nbdc.sbc.com>
<gj47s30um9@news3.newsguy.com>
<pan.2008.12.27.09.25.51.311061@localhost.localdomain>
<mzr5l.1363$BC4.1323@nwrddc02.gnilink.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 9
Date: Sat, 27 Dec 2008 23:05:52 +0100
NNTP-Posting-Host: 213.101.96.18
X-Complaints-To: news-abuse@swip.net
```

```
X-Trace: nntpserver.swip.net 1230415600 213.101.96.18 (Sat, 27 Dec 2008 23:06:40
CEST)
NNTP-Posting-Date: Sat, 27 Dec 2008 23:06:40 CEST
Organization: A Customer of Tele2
Xref: g2news1.google.com rec.radio.amateur.homebrew:1655
```

>
> If only you could get it to interface with caller ID.

I have not tried it yet as I don't want others to know who's calling me,
  but on my Ericsson P1 I can choose personal ringtones so it would be
possible to connect a CW-call to someone in my phone-book.

/L

```
From 3336330267157601090
X-Google-Thread: fc8b1,30bde57010031c1a
X-Google-Thread: fc2a5,30bde57010031c1a
X-Google-Thread: 108122,30bde57010031c1a
X-Google-Attributes: gidfc8b1,gidfc2a5,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!j38g2000yqa.googlegroups.com!not-for-
mail
From: terryS <tsanford@nf.sympatico.ca>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.equipme
nt
Subject: Re: FA: MOPA 2-Tube Transmitter Instant Junkbox parts assortment
Date: Sat, 27 Dec 2008 15:19:32 -0800 (PST)
Organization: http://groups.google.com
Lines: 58
Message-ID: <ba5af0b0-d0d2-4273-af7e-8cde7c5ab52a@j38g2000yqa.googlegroups.com>
References: <4fcc0d8f-5a41-46e9-be38-c1619125043f@y18g2000yqn.googlegroups.com>
     <dc5059f2-63d7-4818-a518-1d9bb79bd062@y18g2000yqn.googlegroups.com>
     <ab4948f6-89a2-4ae9-b128-31740dc76fde@k24g2000pri.googlegroups.com>
     <DaC0l.16363$Ax1.3514@newsfe29.ams2> <6d62330c-f9a1-494e-
b7c0-4fc5c68c3433@o40g2000prn.googlegroups.com>
NNTP-Posting-Host: 142.162.129.76
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1230419972 20747 127.0.0.1 (27 Dec 2008 23:19:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Dec 2008 23:19:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j38g2000yqa.googlegroups.com; posting-host=142.162.129.76;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727; .NET CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.boatanchors:1963
```

```
rec.radio.amateur.homebrew:1953 rec.radio.amateur.equipment:1172

On Dec 13, 3:49=A0pm, mjsi...@embarqmail.com wrote:
> On Dec 12, 6:09=A0pm, "Theo" <theodore.twy...@ntlworld.com> wrote:
>
>
>
>
>
> > <mjsi...@embarqmail.com> wrote in message
>
> >news:ab4948f6-89a2-4ae9-b128-31740dc76fde@k24g2000pri.googlegroups.com..=
.
> > On Dec 11, 3:58 pm, raypsi <RBorow...@gmail.com> wrote:
>
> > > On Dec 8, 12:07 pm, mjsi...@embarqmail.com wrote:
>
> > > > I had this idea a while back, to thin out my stuff in what I think =
is
> > > > a useful and interesting way. Along the way I ended up having to bu=
y
> > > > a bunch of new stuff as well (e.g. the brand new tune and load
> > > > variable caps). So take a look - might be a fun way to spend some
> > > > winter evenings.
>
> > > >http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3D160303721771
>
> > > > 73,
> > > > Mike, KK6GM
>
> > > Hey OM
>
> > > I should has learned to play the guitar. Instead I got into
> > > electronics built my first xmitter in '67 using a 6BQ5 xtal osc and
> > > 6146A final.
> > > Everything was hot. I used series twist lock caps in the ps, B&W coil=
,
> > > with aligator clip adjust, multi elmac plate and tune caps, a tv set
> > > power xformer, all that on a punched out 5x7x2 LMB chassis. Even the
> > > Key was hot as I keyed the screen of the 6146A.
>
> > > 73 OM
> > > n8zu
>
> > That's pretty impressive, fitting that on a 5x7 chassis!
>
> > (Actually 5ft x 7ft !) =A0;-)- Hide quoted text -
>
> > - Show quoted text -
>
> You mean kinda like this?
>
> http://i408.photobucket.com/albums/pp169/snarflemike/SCAN0006.jpg- Hide q=
uoted text -
>
> - Show quoted text -

Hey. Notice how everyone in that picture is wearing a tie? The guy on
the left is wearing a bow tie, I thnk? Proper dressing; these days we
are too sloppy; eh? Cheers.


From 687642247542044932
X-Google-Thread: fc2a5,ca04963427eb1bc2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!35g2000pry.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 0.1" computer jumper crimping tool
Date: Sat, 17 Jan 2009 09:54:14 -0800 (PST)
Organization: http://groups.google.com
Lines: 17
Message-ID: <3ff489ca-dccf-467e-b84e-b0dfd3e0a42a@35g2000pry.googlegroups.com>
References: <129625ae-cb30-4672-a46b-1f0c8502c84f@w24g2000prd.googlegroups.com>
NNTP-Posting-Host: 68.15.194.155
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1232214854 24791 127.0.0.1 (17 Jan 2009 17:54:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 17 Jan 2009 17:54:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 35g2000pry.googlegroups.com; posting-host=68.15.194.155;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2068

On Jan 7, 1:47=A0pm, "Ross, NS7F" <rjtu...@gmail.com> wrote:
> Has anybody had any experience with those little cables used for
> connections on computer motherboards, typically to front panel LEDs,
> etc? The pins are 0.1" centered and would be extremely handy for
> routing +12v around while breadboarding stuff. I think the official
> name is IDT cables. However, whenever I search for them, I get the
> crimpers for the massive 40 or 80-conductor cables for ATA ribbons! I
> just want to make the little 2-3 conductor thingies...
>
> Thanks for taking a look.
>
> 73 de Ross, NS7F

I use crimp on female RS 232 connectors
If you cant find a crimp tool they solder on very easily
```

Jimmie

```
From -8748315378641623987
X-Google-Thread: f7810,5f9d4ed44a17104a
X-Google-Thread: 114a57,5f9d4ed44a17104a
X-Google-Thread: fc734,5f9d4ed44a17104a
X-Google-Thread: 108778,5f9d4ed44a17104a
X-Google-Thread: 108122,5f9d4ed44a17104a
X-Google-Thread: fc2a5,5f9d4ed44a17104a
X-Google-Thread: 107ada,5f9d4ed44a17104a
X-Google-Thread: 10bf43,5f9d4ed44a17104a
X-Google-Attributes:
gidf7810,gid114a57,gidfc734,gid108778,gid108122,gidfc2a5,gid107ada,gid10bf43,domai
nid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
newsfeed01.sul.t-online.de!newsfeed00.sul.t-online.de!t-online.de!
Xl.tags.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
local02.nntp.dca.giganews.com!nntp.got.net!news.got.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 17 Jan 2009 12:23:33 -0600
From: dloyd@gmail.com
Newsgroups: alt.ham-radio.dxing,alt.ham-radio.hf,alt.ham-
radio.ssb,alt.radio.amateur,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: AY YI YI YI YES ITS THE PORKBUTT SONG
Date: Sat, 17 Jan 2009 13:29:02 -0500
Message-ID: <nd84n49hajptmcdcm3nkfk5rt1dosr3dg1@4ax.com>
References: <vn07nhkt1kngc6@corp.supernews.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 27
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.19.113.131
X-Trace:
sv3-3cDbnWU+ovhkH4boDOP7xxAfx5JV5pjF813nJBiWUz6ImDZhGv7ggE0E8EHJIXVdcfjq0Inks2ueXe
7!+rU8kjXgAM1SK3AovzWBB4gUTjxuuBBLJvnrl5QTyGMItMgZDsiJ2ldgz3dbAMkgszi2MzFA2y9e!
l0iH
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com alt.ham-radio.dxing:213 alt.ham-radio.hf:65 alt.ham-
radio.ssb:23 alt.radio.amateur:95 rec.radio.amateur.equipment:1251
rec.radio.amateur.homebrew:2069 rec.radio.amateur.misc:2793
rec.radio.amateur.policy:23796
```

On Tue, 23 Sep 2003 18:22:42 -0400, " BIG AL"
<bigal3.894.5@bigal3.894.5.com> wrote:

```
>BE ON 3894.5 TONITE. THE ARKANSAS BOYS NEED TO BE SHOWN THE DOOR. HO HO
>
>THE REST OF YOU LIMPS ONE NEED TO STAY AWAY. HO HO
>
>AY YI YI YI YES ITS THE PORKBUTT SONG
>
>AY YI YI YI YES ITS THE PORKBUTT SONG
>
>AY YI YI YI YES ITS THE PORKBUTT SONG
>

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act


From 9041760398391840409
X-Google-Thread: f7810,7c4e300b889bebb7
X-Google-Thread: 114a57,7c4e300b889bebb7
X-Google-Thread: fc734,7c4e300b889bebb7
X-Google-Thread: 108122,7c4e300b889bebb7
X-Google-Thread: fc2a5,7c4e300b889bebb7
X-Google-Thread: 107ada,7c4e300b889bebb7
X-Google-Thread: 10bf43,7c4e300b889bebb7
X-Google-Attributes:
gidf7810,gid114a57,gidfc734,gid108122,gidfc2a5,gid107ada,gid10bf43,domainid0,publi
c,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
bigfeed2.bellsouth.net!news.bellsouth.net!Xl.tags.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.got.net!news.got.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 17 Jan 2009 12:23:35 -0600
From: dloyd@gmail.com
Newsgroups: alt.ham-radio.dxing,alt.ham-radio.hf,alt.ham-
radio.ssb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur
.misc,rec.radio.amateur.policy
Subject: Re: SHOW ME YOUR LITTLE ONE AND I'LL SHOW YOU MY BIG ONE BOY
Date: Sat, 17 Jan 2009 13:29:02 -0500
Message-ID: <3e84n416cldpq6csql51dh501m3ilu3vq2@4ax.com>
References: <vn07rpnvkjh12c@corp.supernews.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
```

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 24
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.19.113.131
X-Trace: sv3-FN751U6PenU9i+ioyn7dCAnKnsW/
+4dZXQCDEI+ckGy8p3lvP8g9bLLVoUtVTh2ReGYmR8QCdgH8TL/!hIFd61N3Cv//
vVIzUQcA2iZsuMra7bMM5JeS/gbdmzcLVblT4CnB20pYDXh00gx7Ii5NcXLGmcrL!LB6q
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com alt.ham-radio.dxing:216 alt.ham-radio.hf:67 alt.ham-radio.ssb:24 rec.radio.amateur.equipment:1252 rec.radio.amateur.homebrew:2070 rec.radio.amateur.misc:2795 rec.radio.amateur.policy:23798

On Tue, 23 Sep 2003 23:24:55 -0400, " BIG AL"
<bigal3.894.5@bigal3.894.5.com> wrote:

>THIS IS K4OKA THE CARING STATION. HO HO
>
>STOP PLAYING WITH YOURSELF BOY.
>
> HO HO
>
>

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

From 2634467959772908871
X-Google-Thread: fc2a5,7ac17e8cf4cbeff2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews8.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: You know your passenger is a geek when ...
References: <Nwg5l.11115$x%.1336@nlpi070.nbdc.sbc.com>
In-Reply-To: <Nwg5l.11115$x%.1336@nlpi070.nbdc.sbc.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 6
Message-ID: <cPy5l.13286$YU6.1668@bignews8.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mabncmnekmdohbabdbdpiflmbcekedmfhojhikkbagflhcbolcafidmdebhlabcommcagnnghgflfjida
bknnjjejjlcdffffniogjeiaoabfjhncmdhcleiijhgcdmocgglghecelinbhcbhfokipbhgdhggfd
NNTP-Posting-Date: Sat, 27 Dec 2008 18:24:56 EST
Organization: BellSouth Internet Group
Date: Sat, 27 Dec 2008 18:27:59 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1954

no wrote:
> He notices that the digital display on your dash is a clock set to GMT.
>
>
You mean "you know your passenger is a ham when ..."
If he were a geek, the clock would read out in BINARY (or Hexadecimal).


From -1385703651236936738
X-Google-Thread: fc2a5,696d08425b2846c9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2!news.cse.ohio-
state.edu!pitt.edu!egsner!news.cirr.com!freeshell.org!sdog2008
From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio Shack Pro 2011 scanner schematic
Date: Sun, 28 Dec 2008 00:59:07 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 44
Message-ID: <Pine.NEB.4.64.0812280049040.6443@sdf.lonestar.org>
References: <8eac5907-d1ed-4cba-bff9-0be68557b4e3@f18g2000vbf.googlegroups.com>
  <eb8e9b49-5957-48ed-a844-dbdc667e64ef@x14g2000yqk.googlegroups.com>
 <7a5d33ec-770d-445e-884f-d4de71e1281b@o4g2000pra.googlegroups.com>
 <Pine.NEB.4.64.0812271823530.7863@sdf.lonestar.org>
 <f2ff4555-35d9-419f-81ac-1fdd49298dcf@v4g2000yqa.googlegroups.com>
NNTP-Posting-Host: freeshell.org
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: chessie.cirr.com 1230425953 4624 192.94.73.30 (28 Dec 2008 00:59:13 GMT)
X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Sun, 28 Dec 2008 00:59:13 +0000 (UTC)
In-Reply-To: <f2ff4555-35d9-419f-81ac-1fdd49298dcf@v4g2000yqa.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1658
```

On Sat, 27 Dec 2008, joeturn wrote:

> Date: Sat, 27 Dec 2008 13:43:21 -0800 (PST)
> From: joeturn <joeturn2000@yahoo.com>
> Newsgroups: rec.radio.amateur.homebrew
> Subject: Re: Radio Shack Pro 2011 scanner schematic
>
> Throw aways:
> Actually I saw that coming about 20 years ago with the works in a
> drawer by magnovox.
> I ordered a surface mount hearing kit from Ramsey!! Had to use a
> toothpic and super glue the components into place before I could
> solder them! Back then the flex monuted magnifier was saficient,
> now ,it requires a jewlers loop to see them!!..
> However GRE should have offered to fix mine as it was the GRE
> 400/500 .They never answered my email??
> Oh well I'll catch someone who wants to tinker or find a junk one in a
> pawn shop??
>

Well, there has been a lot of useful technical progress but I am a little bit bothered by this trend to _also_ (besides not being able to fix anything because it is 'throw away") the trend to make stuff so that it actually has to be fixed by bringing the unit in for some kind of aftermarket repair, adjustment, etc., and it costs some money in addition to the inconvienience.

Cell phone viruses, for example, are known and the stories say they are already out there (one will drain your battery on you), and, so as we get more web access via PDA-type devices, what do you do if your thing starts acting up? Go to a URL and download a "fix" and if the virus fixes it so you can 't do that, then you have to send in your whole thing with $100 or so to have _them_ fix it? This is about what it's going to start taking soon.

From -8737777948513729118
X-Google-Thread: 108122,7c4e300b889bebb7
X-Google-Thread: fc2a5,7c4e300b889bebb7
X-Google-Thread: 107ada,7c4e300b889bebb7
X-Google-Thread: 10bf43,7c4e300b889bebb7
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid10bf43,domainid0,public,usenet

```
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!r27g2000vbp.googlegroups.com!not-for-
mail
From: dloydlavies@hotmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
radio.amateur.policy
Subject: Re: SHOW ME YOUR LITTLE ONE AND I'LL SHOW YOU MY BIG ONE BOY
Date: Sat, 17 Jan 2009 11:30:03 -0800 (PST)
Organization: http://groups.google.com
Lines: 34
Message-ID: <bb65d8bf-375b-4cc6-a882-56a35763edbc@r27g2000vbp.googlegroups.com>
References: <vn07rpnvkjh12c@corp.supernews.com>
<3e84n416cldpq6csql51dh501m3ilu3vq2@4ax.com>
NNTP-Posting-Host: 64.12.116.143
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1232220603 10441 127.0.0.1 (17 Jan 2009 19:30:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 17 Jan 2009 19:30:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r27g2000vbp.googlegroups.com; posting-host=64.12.116.143;
     posting-account=LlKlpQoAAAACKApcMghEg1tHuqFnsbsX
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 5.1;
     .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-mtc-tc10.proxy.aol.com[400C704A] (Prism/1.2.1), HTTP/1.1
     cache-mtc-ac14.proxy.aol.com[400C748F] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.equipment:1040
rec.radio.amateur.homebrew:1774 rec.radio.amateur.misc:2563
rec.radio.amateur.policy:20758

On Jan 17, 1:29=EF=BF=BDpm, dl...@gmail.com wrote:
> On Tue, 23 Sep 2003 23:24:55 -0400, " BIG =EF=BF=BDAL"
>
> <bigal3.89...@bigal3.894.5.com> wrote:
> >THIS IS K4OKA THE CARING STATION. HO HO
>
> >STOP PLAYING WITH YOURSELF BOY.
>
> > HO HO
>
> "one useless man is disgrace 2 become a law firm 3 or more become a congr=
ess"
> adams
>
> woger you are a Congress all in your own head
>
> http://kb9rqz.bravejournal.com/
> altopia is never used by KB9RQZ
> nor is Konst...@hotmail.com ever
```

> btw i can be found at
> 17366 N River Rd
> Chassel Mi
>
> but the cowards asking lack the gut to act

Mark, KB9RQZ you are funny, trying to fool folks into thinking that
you are me by using "dloyd" but still posting under your Hughes
account and using your sig line....LOL

You are one kooky kook.

Have fun...while I sit back and laugh.

DL

```
From 2821159005877738262
X-Google-Thread: fc2a5,8afd947ac32c8371,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v18g2000pro.googlegroups.com!not-for-
mail
From: Fred <whru@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Subminiature tube CK526AX
Date: Sat, 17 Jan 2009 12:42:44 -0800 (PST)
Organization: http://groups.google.com
Lines: 6
Message-ID: <5439128a-3ccf-41d0-af62-54d1ef482737@v18g2000pro.googlegroups.com>
NNTP-Posting-Host: 69.104.17.53
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1232224964 29413 127.0.0.1 (17 Jan 2009 20:42:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 17 Jan 2009 20:42:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v18g2000pro.googlegroups.com; posting-host=69.104.17.53;
     posting-account=-SZ03wkAAAD7BxbV9mzlvEJrI-dolajt
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     AntivirXP08),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2072
```

Hi,
I would like to use this tube for QRP purposes. Anybody out there with
schematics, plans, experience etc.?
Tnx
73
Fred

From 5401520717898453214
X-Google-Thread: fc2a5,8afd947ac32c8371
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews3.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Subminiature tube CK526AX
References: <5439128a-3ccf-41d0-af62-54d1ef482737@v18g2000pro.googlegroups.com>
In-Reply-To: <5439128a-3ccf-41d0-af62-54d1ef482737@v18g2000pro.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 37
Message-ID: <Inscl.5143$aO6.4736@bignews3.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcbohngbnclbnhekeamofjcbmomclaoomcmmbb
mmhmnnigmhcgekijdhmeaimkpaoppdlhikpiefcfcnlkioijeppgejlojlcgllaenoggmapnngflle
NNTP-Posting-Date: Sat, 17 Jan 2009 16:49:28 EST
Organization: BellSouth Internet Group
Date: Sat, 17 Jan 2009 16:53:26 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:2073

Fred wrote:
> Hi,
> I would like to use this tube for QRP purposes. Anybody out there with
> schematics, plans, experience etc.?
> Tnx
> 73
> Fred

http://www.google.com/url?
sa=t&source=web&ct=res&cd=3&url=http%3A%2F%2Fscottbecker.net%2Ftube%2Fsheets%2F138
%2Fc%2FCK526AX.pdf&ei=H1FySZ-
_Nsyatwebh8DnCA&usg=AFQjCNEzXT2dgcDMb_MLDmxc8HSgpnVOtA&sig2=S_kGJ8FaEJccu06qj-hsuA

seems to be a battery directly heated pentode / beam power tube.
Max ratings:
Vf = 1.25 +/- 20%
If = 20ma
Vp = 45v
Vg2 = 45v
Ik = 1ma

Typical operation:
Vp = 22.5v
Vg2 = 22.5v
Vg1 = -1.5v
Peak grid signal voltage 1.5v

Ip = .45ma
Ig2 = .12ma
Transconductance 400umhos
Rp = .22meg ohm
Rl = .05meg ohm
Distortion = 10%
Power out = 3.75mw

lead 1 = plate (red dot)
lead 2 = G2
lead 3 = F+
lead 4 = G1
lead 5 = F-

G3 (deflector plates) internally connected to filament.

```
From 5539267180659863542
X-Google-Thread: fc2a5,464c4e18e63ae625,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!r41g2000prr.googlegroups.com!not-for-mail
From: BV <bv@mailme.dk>
Newsgroups: rec.radio.amateur.homebrew
Subject: UHF (70cm) PA
Date: Sun, 18 Jan 2009 08:20:05 -0800 (PST)
Organization: http://groups.google.com
Lines: 37
Message-ID: <6721ab92-e477-4bb7-96fa-5d6b176eb3c9@r41g2000prr.googlegroups.com>
NNTP-Posting-Host: 87.58.248.146
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1232295605 15574 127.0.0.1 (18 Jan 2009 16:20:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 18 Jan 2009 16:20:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r41g2000prr.googlegroups.com; posting-host=87.58.248.146;
     posting-account=O5CbzgkAAAAox3K5exA2xEFdrB5yacDq
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
     .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506;
     InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1777
```

Hi

Got a pair of MRF648 and would like to build a 100W 70cm PA running at 13,8V.
I have been looking for constructions/id=E9eas on Google without luck.
Anybody able to help me?

If You got an article i can use, please mail it to me: bv(--at..) mailme.dk

MRF648 data:

DESCRIPTION:
The ASI MRF648 is Designed for
12.5 V UHF large signal amplifier
applications up to 512 MHz.

FEATURES:
. Internal Input Matching Network
. PG =3D 4.4 dB at 60 W/470 MHz
. OmnigoldT Metalization System

MAXIMUM RATINGS

IC	11 A
VCBO	36 V
VCEO	16 V
VEBO	4.0 V
PDISS	175 W @ TC =3D 25 =B0C
TJ	-65 =B0C to +200 =B0C
TSTG	-65 =B0C to +150 =B0C
?JC	1.0 =B0C/W

73 de OZ1BV, Brian

From 448983898985368743
X-Google-Thread: fc2a5,464c4e18e63ae625
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y1g2000pra.googlegroups.com!not-for-mail
From: BV <bv@mailme.dk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UHF (70cm) PA
Date: Sun, 18 Jan 2009 08:36:36 -0800 (PST)
Organization: http://groups.google.com
Lines: 4
Message-ID: <77d3aaec-50e2-40fc-ab88-d864ffdf8555@y1g2000pra.googlegroups.com>
References: <6721ab92-e477-4bb7-96fa-5d6b176eb3c9@r41g2000prr.googlegroups.com>
NNTP-Posting-Host: 87.58.248.146
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1232296597 18444 127.0.0.1 (18 Jan 2009 16:36:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 18 Jan 2009 16:36:37 +0000 (UTC)

```
Complaints-To: groups-abuse@google.com
Injection-Info: y1g2000pra.googlegroups.com; posting-host=87.58.248.146;
     posting-account=O5CbzgkAAAAox3K5exA2xEFdrB5yacDq
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
     .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506;
     InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1778
```

P.S. It's a linear amp i want to build

73 de OZ1BV, Brian

```
From -4662015113915980089
X-Google-Thread: fc2a5,8afd947ac32c8371
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k36g2000pri.googlegroups.com!not-for-
mail
From: Fred <whru@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Subminiature tube CK526AX
Date: Sun, 18 Jan 2009 11:40:18 -0800 (PST)
Organization: http://groups.google.com
Lines: 7
Message-ID: <ccb161ce-b7c1-4e84-8434-cf5142dd28ec@k36g2000pri.googlegroups.com>
References: <5439128a-3ccf-41d0-af62-54d1ef482737@v18g2000pro.googlegroups.com>
     <Inscl.5143$aO6.4736@bignews3.bellsouth.net>
NNTP-Posting-Host: 68.125.34.143
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1232307618 19770 127.0.0.1 (18 Jan 2009 19:40:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 18 Jan 2009 19:40:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k36g2000pri.googlegroups.com; posting-host=68.125.34.143;
     posting-account=-SZ03wkAAAD7BxbV9mzlvEJrI-dolajt
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     AntivirXP08),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1779
```

Thanks Ken,
now I'm looking for receiver and or transmitter circuits for this
tube.
Tnks
73
Fred.

```
From 4739129220610011555
X-Google-Thread: fc2a5,464c4e18e63ae625
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!w24g2000prd.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UHF (70cm) PA
Date: Sun, 18 Jan 2009 19:24:59 -0800 (PST)
Organization: http://groups.google.com
Lines: 50
Message-ID: <ac592f5e-61b1-46b6-a52c-272db903daf7@w24g2000prd.googlegroups.com>
References: <6721ab92-e477-4bb7-96fa-5d6b176eb3c9@r41g2000prr.googlegroups.com>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1232335499 7036 127.0.0.1 (19 Jan 2009 03:24:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Jan 2009 03:24:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w24g2000prd.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.5)
     Gecko/2008120122 Firefox/3.0.5,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1780

On Jan 18, 8:20=A0am, BV <b...@mailme.dk> wrote:
> Hi
>
> Got a pair of MRF648 and would like to build a 100W 70cm PA running at
> 13,8V.
> I have been looking for constructions/id=E9eas on Google without luck.
> Anybody able to help me?
>
> If You got an article i can use, please mail it to me: bv(--at..)
> mailme.dk
>
> MRF648 data:
>
> DESCRIPTION:
> The ASI MRF648 is Designed for
> 12.5 V UHF large signal amplifier
> applications up to 512 MHz.
>
> FEATURES:
> . Internal Input Matching Network
> . PG =3D 4.4 dB at 60 W/470 MHz
> . OmnigoldT Metalization System
>
```

```
> MAXIMUM RATINGS
> IC =A0 =A0 =A0 =A0 =A0 =A0 =A011 A
> VCBO =A0 =A0 =A0 36 V
> VCEO =A0 =A0 =A0 16 V
> VEBO =A0 =A0 =A0 =A04.0 V
> PDISS =A0 =A0 =A0 =A0175 W @ TC =3D 25 =B0C
> TJ =A0 =A0 =A0 =A0 =A0 =A0 =A0 -65 =B0C to +200 =B0C
> TSTG =A0 =A0 =A0 =A0 -65 =B0C to +150 =B0C
> ?JC =A0 =A0 =A0 =A0 =A0 =A01.0 =B0C/W
>
> 73 de OZ1BV, Brian
```

Hi Brian,

My Motorola data book says these are designed for class C (e.g. FM) amplifier service, not linear. I suppose you should expect to get a little less PEP power out of them in linear service, for good linearity.

The Moto data sheet has a test circuit; I could scan it, if it would be any use to you. The microstrip dimensions are for glass-teflon board, er=3D2.55, 1/16" (1.6mm) thick. Of course, the test circuit is for a single transistor, not a pair. It is solidly class C: the base and emitter are both at DC ground.

Cheers,
Tom

```
From -8049931749654196777
X-Google-Thread: fc2a5,7ac17e8cf4cbeff2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!h5g2000yqh.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: You know your passenger is a geek when ...
Date: Sun, 28 Dec 2008 00:19:53 -0800 (PST)
Organization: http://groups.google.com
Lines: 15
Message-ID: <bd4a7fa6-97af-4485-8330-e6a7b932e6b2@h5g2000yqh.googlegroups.com>
References: <Nwg5l.11115$x%.1336@nlpi070.nbdc.sbc.com>
<gj47s30um9@news3.newsguy.com>
NNTP-Posting-Host: 76.226.231.61
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1230452394 10915 127.0.0.1 (28 Dec 2008 08:19:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 28 Dec 2008 08:19:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h5g2000yqh.googlegroups.com; posting-host=76.226.231.61;
```

```
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1659

On Dec 26, 10:36=A0pm, Bill M <radioex...@geemail.com> wrote:
>
> I said, 'I mean your cellfone, it just sent something in Morse code'.
>
> He gave me the strange look again and says 'Uh, mmm-kay'.
>
> -Bill
Hey OM:
The messages on my cell are sent in CW. I used it just for work. My
boss sent her phone number and it came to me in CW on my phone. My
phone was a refurb. so I don't know how they did it. I've searched for
that program but to no avail.

73 OM
n8zu



From -8619263750281384402
X-Google-Thread: fc2a5,464c4e18e63ae625
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
feeder.erje.net!news2.arglkargh.de!news.musoftware.de!wum.musoftware.de!fu-
berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UHF (70cm) PA
Date: Mon, 19 Jan 2009 06:00:45 +0000
Organization: Bias Comms
Lines: 21
Message-ID: <6tij81Fb5r7cU1@mid.individual.net>
References: <6721ab92-e477-4bb7-96fa-5d6b176eb3c9@r41g2000prr.googlegroups.com>
<77d3aaec-50e2-40fc-ab88-d864ffdf8555@y1g2000pra.googlegroups.com>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net +Q12/UVQMshYFPCGJ4WobAHxtk+myqOJAP6iy6D61WyxgXzKVD
Cancel-Lock: sha1:he2HYMelBcdHE6RsPAX6bjTQysQ=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1781

BV wrote:

> P.S. It's a linear amp i want to build
>
```

> 73 de OZ1BV, Brian

A bit of advice:

The Motorola data book suggests that these devices are designed for Class C service, and their design guide gives a circuit without DC bias. The Vbe max is only 4 Volts, which gives a useful hint!

Your DC bias circuit needs to /very/ accurately track temperature to prevent thermal runaway - the design of the bias circuit /will/ /not/ be trivial.

The gain of the circuit will be disappointing - you'll be lucky to get close to 10 dB - so the drive requirement will be surprisingly high.

If I was designing a UHF PA, I'd choose FETs these days!

Bob

From 6033327934021276022
X-Google-Thread: fc734,5f9d4ed44a17104a
X-Google-Thread: 108778,5f9d4ed44a17104a
X-Google-Thread: fc2a5,5f9d4ed44a17104a
X-Google-Thread: 10bf43,5f9d4ed44a17104a
X-Google-Attributes: gidfc734,gid108778,gidfc2a5,gid10bf43,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.got.net!news.got.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 Jan 2009 02:39:47 -0600
From: dloydlavies@hotmail.com
Newsgroups: alt.ham-radio.dxing,alt.ham-radio.hf,alt.ham-
radio.ssb,alt.radio.amateur,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: AY YI YI YI YES ITS THE PORKBUTT SONG
Date: Mon, 19 Jan 2009 03:45:34 -0500
Message-ID: <ddf8n49tl3ig1pjh3a687gkevsio9usr2i@4ax.com>
References: <vn07nhkt1kngc6@corp.supernews.com>
<nd84n49hajptmcdcm3nkfk5rt1dosr3dg1@4ax.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 29
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.19.113.131
X-Trace: sv3-PvAF5WTXd+qGu64T80lQOqi/
5FmbGCM3VeT5d0DWbYr9pJCFkFmpv6wyxv9UHKnIQLOaOEZJspEXNbg!Hj/
kKIZKtR7wXxkAOYfXo9WQifUTFNVXZ864Rvn5Ck3Cot3xOFM+TIhqXRsNZwvaU5ehqEF4hnDI!dFLe
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39

```
Xref: g2news1.google.com alt.ham-radio.dxing:288 alt.ham-radio.hf:70 alt.ham-
radio.ssb:23 alt.radio.amateur:91 rec.radio.amateur.equipment:1048
rec.radio.amateur.homebrew:1782 rec.radio.amateur.misc:2743
rec.radio.amateur.policy:20970

On Sat, 17 Jan 2009 13:29:02 -0500, dloyd@gmail.com wrote:

>On Tue, 23 Sep 2003 18:22:42 -0400, " BIG AL"
><bigal3.894.5@bigal3.894.5.com> wrote:
>
>>BE ON 3894.5 TONITE. THE ARKANSAS BOYS NEED TO BE SHOWN THE DOOR. HO HO
>>
>>THE REST OF YOU LIMPS ONE NEED TO STAY AWAY. HO HO
>>
>>AY YI YI YI YES ITS THE PORKBUTT SONG
>>
>>AY YI YI YI YES ITS THE PORKBUTT SONG
>>
>>AY YI YI YI YES ITS THE PORKBUTT SONG
>>
>
>"one useless man is disgrace 2 become a law firm 3 or more become a congress"
>adams
>
>woger you are a Congress all in your own head
>
>http://kb9rqz.bravejournal.com/
>altopia is never used by KB9RQZ
>nor is Konstans@hotmail.com ever
>btw i can be found at
>17366 N River Rd
>Chassel Mi
>
>but the cowards asking lack the gut to act


From 2319839979365748765
X-Google-Thread: fc2a5,696d08425b2846c9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!r24g2000vbp.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio Shack Pro 2011 scanner schematic
Date: Sun, 28 Dec 2008 12:50:00 -0800 (PST)
Organization: http://groups.google.com
Lines: 30
Message-ID: <025ac844-dff2-4328-ad0f-1d63f8dac768@r24g2000vbp.googlegroups.com>
References: <8eac5907-d1ed-4cba-bff9-0be68557b4e3@f18g2000vbf.googlegroups.com>
     <eb8e9b49-5957-48ed-a844-dbdc667e64ef@x14g2000yqk.googlegroups.com>
     <7a5d33ec-770d-445e-884f-d4de71e1281b@o4g2000pra.googlegroups.com>
NNTP-Posting-Host: 75.190.189.120
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1230497400 26714 127.0.0.1 (28 Dec 2008 20:50:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 28 Dec 2008 20:50:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r24g2000vbp.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1957
```

On Dec 27, 11:37=A0am, joeturn <joeturn2...@yahoo.com> wrote:

> Service manuals are hard to come by anymore but I'll bet this guy can
> fix you right up!
>
> http://www.qsl.net/ka2pyj/pro2011.htm
>
> I have a pro 2096 I bought off ebay for $50.00 as a tech special
> guaranteed to be DOA
>
> I shiped it to rat shack and they returned it saying parts no longer
> available now I'm at $84.00 and counting!
>
> I found on fixya, a problem with the ribbon connections but the tech
> said the 103 pin chip was shorted!!
>
> I refuse to believe that as it was one of the first batch that could
> be modified to no gap status!! ! Now what shall I do??

Thanks but I tried him already , my email got bounced. That account no
longer exist.

Most of the frequency blocking is done iin the uP board. If this can
be bypassed using a PC interface you are in business.
Interfaces to replace the uP board have been built around a PIC but I
have almost zero experience with a PIC.

Jimmie

```
From -2454146760374834381
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!l16g2000yqo.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: You know your passenger is a geek when ...
```

```
Date: Sun, 28 Dec 2008 13:05:37 -0800 (PST)
Organization: http://groups.google.com
Lines: 14
Message-ID: <b8281002-9ece-4016-8b0b-a4bfdb4b9b6d@l16g2000yqo.googlegroups.com>
References: <Nwg5l.11115$x%.1336@nlpi070.nbdc.sbc.com>
<cPy5l.13286$YU6.1668@bignews8.bellsouth.net>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1230498337 19333 127.0.0.1 (28 Dec 2008 21:05:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 28 Dec 2008 21:05:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l16g2000yqo.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1661

On Dec 27, 6:27=A0pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
> no wrote:
> > He notices that the digital display on your dash is a clock set to GMT.
>
> You mean "you know your passenger is a ham when ..."
> If he were a geek, the clock would read out in BINARY (or Hexadecimal).

I worked on mainframe  computer systems for 27 years and had a BCD
clock with neon lamp display, the counters used 12AX7s. It ran on my
desk for years and one of the new guys had built one  using 74 seies
ICs. He just could not believe it the day he saw me changing tubes in
my clock.

Jimmie


From -1982186388169698252
X-Google-Thread: fc2a5,7ac17e8cf4cbeff2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!e6g2000vbe.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: You know your passenger is a geek when ...
Date: Sun, 28 Dec 2008 13:11:35 -0800 (PST)
Organization: http://groups.google.com
Lines: 22
Message-ID: <a7dc32f0-5dec-4649-901d-134c17aa4061@e6g2000vbe.googlegroups.com>
References: <Nwg5l.11115$x%.1336@nlpi070.nbdc.sbc.com>
<gj47s30um9@news3.newsguy.com>
     <bd4a7fa6-97af-4485-8330-e6a7b932e6b2@h5g2000yqh.googlegroups.com>
```

NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1230498695 30657 127.0.0.1 (28 Dec 2008 21:11:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 28 Dec 2008 21:11:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e6g2000vbe.googlegroups.com; posting-host=75.190.189.120;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1662

On Dec 28, 3:19=A0am, raypsi <RBorow...@gmail.com> wrote:
> On Dec 26, 10:36=A0pm, Bill M <radioex...@geemail.com> wrote:
>
> > I said, 'I mean your cellfone, it just sent something in Morse code'.
>
> > He gave me the strange look again and says 'Uh, mmm-kay'.
>
> > -Bill
>
> Hey OM:
> The messages on my cell are sent in CW. I used it just for work. My
> boss sent her phone number and it came to me in CW on my phone. My
> phone was a refurb. so I don't know how they did it. I've searched for
> that program but to no avail.
>
> 73 OM
> n8zu

Years ago I was hooked up to some medical gear that beeped a CW ON or
OFF.with corresponding state change.

Jimmie

From -6152593250952105599
X-Google-Thread: fc2a5,7ac17e8cf4cbeff2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!a29g2000pra.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: You know your passenger is a geek when ...
Date: Sun, 28 Dec 2008 13:16:02 -0800 (PST)
Organization: http://groups.google.com
Lines: 7
Message-ID: <86166b1a-8cdc-4098-b267-d2b3e7df588a@a29g2000pra.googlegroups.com>
References: <Nwg5l.11115$x%.1336@nlpi070.nbdc.sbc.com>

```
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1230498962 21221 127.0.0.1 (28 Dec 2008 21:16:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 28 Dec 2008 21:16:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a29g2000pra.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1663
```

On Dec 26, 9:36=A0pm, "no" <n...@no.com> wrote:

> He notices that the digital display on your dash is a clock set to GMT.

My daughter must think Im a geek, She gave me a "Fibonacci as easy as 1,1,2,3,....." T shirt for Xmas.

Jimmie

```
From 2769908911394176523
X-Google-Thread: fc2a5,783c3451e5a982cb,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!w1g2000prm.googlegroups.com!not-for-
mail
From: lagagnon <lagagnon@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: RF probe for millivolts?
Date: Sun, 28 Dec 2008 13:41:23 -0800 (PST)
Organization: http://groups.google.com
Lines: 23
Message-ID: <738b45fe-43d6-44b1-b643-35c437815d64@w1g2000prm.googlegroups.com>
NNTP-Posting-Host: 216.210.111.126
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
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User-Agent: G2/1.0
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Xref: g2news2.google.com rec.radio.amateur.homebrew:1961
```

I need to make some trimmer cap replacements to an IC-735 and then do a PL adjustment after replacing them. To do this properly (according to the service manual) I need an RF voltmeter capable of measuring the range of 40-400mV.

I have a DMM with an input impedance of 10M ohms. I was hoping to construct a simple RF probe to the DMM and thus measure RF volts. However, the way I understand it, most of the suggested RF probe schematics (eg - the one in the ARRL Handbook) would only work in the range of volts, rather than millvolts, due to the voltage drop on the detector diode.

I have found a solution in the RSGB "Test Equipment for the Radio Amateur" book, which unfortunately requires building 4 transistor array to amplify the signal. A bit more work than I want to get involved in unless necessary!

So my question is if anyone knows of a simpler solution for an RF probe that can measure RF millivolts without an amplifier array?

Any suggestions greatly appreciated.

Larry VE7EA

```
From -8790002355160195229
X-Google-Thread: fc2a5,783c3451e5a982cb
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe04.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <738b45fe-43d6-44b1-b643-35c437815d64@w1g2000prm.googlegroups.com>
Subject: Re: RF probe for millivolts?
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
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Message-ID: <zGS5l.38388$sC4.12117@newsfe04.iad>
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X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe04.iad 1230501663 68.229.77.6 (Sun, 28 Dec 2008 22:01:03 UTC)
NNTP-Posting-Date: Sun, 28 Dec 2008 22:01:03 UTC
Organization: Cox
Date: Sun, 28 Dec 2008 17:00:55 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1665
```

Well, the old Boonton RF millivolters are dirt cheap these days...

Do you have a good scope on hand? Something along the lines of more modern Tektronix? That would be the easiest way to

do it. You can make a cheap RF probe using a hot carrier diode
or germanium diode, but the reading accuracy would be
questionable, especially at very low RF voltage levels.

From 1470249311744341952
X-Google-Thread: fc2a5,783c3451e5a982cb
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe19.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <738b45fe-43d6-44b1-b643-35c437815d64@w1g2000prm.googlegroups.com>
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X-Trace: newsfe19.iad 1230504300 68.229.77.6 (Sun, 28 Dec 2008 22:45:00 UTC)
NNTP-Posting-Date: Sun, 28 Dec 2008 22:45:00 UTC
Organization: Cox
Date: Sun, 28 Dec 2008 17:44:52 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1666

Are you looking for a peak while tuning, a relative indication?
Or, do you need to know the exact RF voltage level?

Pete

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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!v4g2000vbb.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio Shack Pro 2011 scanner schematic
Date: Sun, 28 Dec 2008 16:39:29 -0800 (PST)
Organization: http://groups.google.com

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Lines: 51
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     <7a5d33ec-770d-445e-884f-d4de71e1281b@o4g2000pra.googlegroups.com>
     <Pine.NEB.4.64.0812271823530.7863@sdf.lonestar.org>
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     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1667
```

On Dec 27, 1:35=A0pm, Stray Dog <sdog2...@sdf.lonestar.org> wrote:
> On Sat, 27 Dec 2008, joeturn wrote:
> > Date: Sat, 27 Dec 2008 08:37:46 -0800 (PST)
> > From: joeturn <joeturn2...@yahoo.com>
> > Newsgroups: rec.radio.amateur.homebrew
> > Subject: Re: Radio Shack Pro 2011 scanner schematic
>
> > Service manuals are hard to come by anymore but I'll bet this guy can
> > fix you right up!
>
> >http://www.qsl.net/ka2pyj/pro2011.htm
>
> > I have a pro 2096 I bought off ebay for $50.00 as a tech special
> > guaranteed to be DOA
>
> > I shiped it to rat shack and they returned it saying parts no longer
> > available now I'm at $84.00 and counting!
>
> > I found on fixya, a problem with the ribbon connections but the tech
> > said the 103 pin chip was shorted!!
>
> > I refuse to believe that as it was one of the first batch that could
> > be modified to no gap status!! ! Now what shall I do??
>
> There are guys who will go to the limits to repair DOA gear.
>
> Maybe some other guys here will encourage you with suggestions. My
> suggestion is, unless there are some very unique technical specifications
> that you really need, to cut your losses up to this point and buy
> something that you have a high probability expectation will work, out of
> the box, and has some warranty protection (which usually means they may
> just give you a new device instead of fixing the old one).

```
>
> I know someone who is working on a dead ham transceiver, all solid state
> and major ricebox brand, who has already spent enormous numbers of hours
> with little progress and with the full knowledge that most of the chips
> and sub-assemblies are no longer available or supported by the company.
>
> We have been in this "new" throw-away economy evern since chips started
> coming out where the technology understandably must progress in a manner
> that automatically makes obsolete the prior generation of technology for
> the purpose of causing ownership of capabilities to be more expensive tha=
n
> if the older technology were made repairable.- Hide quoted text -
>
> - Show quoted text -

Things like the PRO 2011 are fun to repair. It was built before chip
componets.

Jimmie



From 3928715691351412159
X-Google-Thread: fc2a5,783c3451e5a982cb
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!r15g2000prd.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RF probe for millivolts?
Date: Sun, 28 Dec 2008 16:58:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 58
Message-ID: <00278a4d-f14e-49f5-9cb3-b5113424e93c@r15g2000prd.googlegroups.com>
References: <738b45fe-43d6-44b1-b643-35c437815d64@w1g2000prm.googlegroups.com>
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Content-Transfer-Encoding: quoted-printable
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NNTP-Posting-Date: Mon, 29 Dec 2008 00:58:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r15g2000prd.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.5)
     Gecko/2008120122 Firefox/3.0.5,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1668

On Dec 28, 1:41=A0pm, lagagnon <lagag...@gmail.com> wrote:
> I need to make some trimmer cap replacements to an IC-735 and then do
> a PL adjustment after replacing them. To do this properly (according
```

> to the service manual) I need an RF voltmeter capable of measuring
> the range of 40-400mV.
>
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> construct a simple RF probe to the DMM and thus measure RF volts.
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> range of volts, rather than millvolts, due to the voltage drop on the
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> Amateur" book, which unfortunately requires building 4 transistor
> array to amplify the signal. A bit more work than I want to get
> involved in unless necessary!
>
> So my question is if anyone knows of a simpler solution for an RF
> probe that can measure RF millivolts without an amplifier array?
>
> Any suggestions greatly appreciated.
>
> Larry VE7EA

It's a common misconception that detector diodes (or any other semiconductor diodes, for that matter) don't turn on at all below some magic voltage. That's a lie! The conduction current versus bias voltage is a smooth curve that passes through 0 current at 0 volts (assuming you don't have light falling on the junction ;-), but there's more conduction at +1 millivolt than there is a -1 millivolt. I've built single diode detectors that I've used to detect RF as low as about 100 MICROvolts. It's QUITE EASY to see the output for a 40 millivolt input even if you use a cheap 1N4148 silicon diode as a detector and a not very fancy DVM to read it out. Try it! The thing is, the output at low voltages will be a voltage that is linearly proportional to the _square_ of the input voltage. That transitions to being linear with input voltage as you get to RF voltages in the range of "one diode drop," or about half a volt for standard silicon diodes. That square thing means sensitivity drops rapidly as you get to low RF voltages: cut the RF in half and the DC output drops to 1/4 what it was.

If you can get an RF Schottky diode, or a germanium detector diode, you'll have greater sensitivity, but if your volt meter goes down to below a millivolt (e.g., a 3-1/2 digit DVM with a 200mV range), you should be able to easily see the response to 40mV of RF with just a 1N4148-based probe.

To be sure I'm not trying to blow smoke some bad place, I just tried this, with a 1N4148 as detector. Using a _very_ cheap DVM with 1 megohm input resistance, I got 0.1mV output with about 30mV RF input. With a better DVM with 10 megohm input resistance, 15mV of RF is easily detectable at 0.1mV output. This was at 50MHz, but holds down at lower frequencies too.

Cheers,
Tom

From -1910675004570520243
X-Google-Thread: fc2a5,783c3451e5a982cb
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe22.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <738b45fe-43d6-44b1-b643-35c437815d64@w1g2000prm.googlegroups.com>
<00278a4d-f14e-49f5-9cb3-b5113424e93c@r15g2000prd.googlegroups.com>
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
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Message-ID: <E7W5l.1666$em5.1105@newsfe22.iad>
NNTP-Posting-Host: 68.229.77.6
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X-Trace: newsfe22.iad 1230515812 68.229.77.6 (Mon, 29 Dec 2008 01:56:52 UTC)
NNTP-Posting-Date: Mon, 29 Dec 2008 01:56:52 UTC
Organization: Cox
Date: Sun, 28 Dec 2008 20:56:44 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1966

"K7ITM" <k7itm@msn.com> wrote in message
news:00278a4d-f14e-49f5-9cb3-b5113424e93c@r15g2000prd.googlegroups.com...
To be sure I'm not trying to blow smoke some bad place, I just tried
this, with a 1N4148 as detector. Using a _very_ cheap DVM with 1
megohm input resistance, I got 0.1mV output with about 30mV RF input.
With a better DVM with 10 megohm input resistance, 15mV of RF is
easily detectable at 0.1mV output. This was at 50MHz, but holds down
at lower frequencies too.

Cheers,
Tom

You ain't blowing smoke or whistling Dixie, otherwise the diode
detector probes for the Boonton RF millivolters would never
have worked!

Pete

```
From -9103434254699259199
X-Google-Thread: 112d1e,741330d89a00600b,start
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X-Google-Language: ENGLISH,ASCII-7-bit
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border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 28 Dec 2008 21:00:04 -0600
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
From: Frnak McKenney <frnak@far.from.the.madding.crowd.com>
Subject: Modding an AM BCB radio for VLF reception
Followup-To: sci.electronics.design
Keywords: LF VLF modify AM receiver
User-Agent: slrn/0.9.7.3 (OS/2)
Message-ID: <JsidnbYp05epoMXUnZ2dnUVZ_gSdnZ2d@earthlink.com>
Date: Sun, 28 Dec 2008 21:00:04 -0600
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NNTP-Posting-Host: 96.248.0.155
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com sci.electronics.design:51256
rec.radio.amateur.homebrew:1670
```

I'd like to listen in on NIST's 60kHz time broadcasts on WWVB "directly", but I like building things, and besides, I'm too chea... er, "thrifty" to go out and buy a VLF-specific receiver.

Down in the basement (a.k.a. The Gorge of Eternal Electronic Peril) I have a couple of AM/FM clock-radios I've accumulated (yard sale? local thrift shop? I forget). Unlike today's Walkman-alike radios, these tend to have large, discrete, and easy-to-reach components, so I wondered if it would be possible to modify one of these to tune in RF in the WWVB and LF-RFID (125kHz) neighborhoods.

Before pulling anything apaprt I thought I'd check the math see if it was even reasonable. I assume these units are standard superhet designs with a local oscillator and a 455kHz IF section, such as the circuit at:

  http://ourworld.compuserve.com.homepages/Bill_Bowden/radio.htm

```
  AM BCB:             540-1600 kHz
  Tuning capacitor:   140-  15 pF (RF)
```

60- 10 pF (LO)
0- 12 pF (trimmers)

From Ye Olde Traditional Formula:

F = 1/(2 * %pi * sqrt(L * C))

it follows that, for a fixed L, F varies with 1/sqrt(C). The capacitance of the RF gang of the tuning capacitor has a 10:1 range, so it can control a frequency range of 1:sqrt(10), or 1:3.2. Similarly, the LO section provides a frequency range of 1:sqrt(6), or 1:2.4.

Working this backwards, it looks like an antenna loop designed for this capacitor would be between 620uH and 660uH; choosing 640uH and working forward the RF section would tune from 532 to 1624 kHz.

This means the LO will run from (532+455) or 987kHz to (1624+455) or 2079kHz kHz, a range of 2.1. Calculating from the low end the associated inductor (LO tank coil) would need to be 428uH yielding an LO range of 993-2433kHz; working from the high end we get 586uH, an LO range of 849-2079kHz. Even if I choose a "middle" value of 500uH, my LO calculations imply that the LO will be as much as 200kHz "off" from the ideal mixing frequency of (RF+455kHz) at either end of the dial; since radios appear (in general) to work, I'll have to assume there's a problem with my LO math.

But ignoring that for now (famous last words <grin!>), that says that if I stick a 75000uH choke in series with the radio's ferrite loopstick, giving a total inductance of 75640uH, the _RF_ section will (theoretically) have a tuning range of 49-149kHz. _IF_ I can get a LO that tunes in sync with this, that is, 504-604kHz, then the IF section will accept and amplify any AM signal from 49 to 149kHz, envelope-detect it, and feed the result through the receiver's amplifier.

I can see a couple of problems, even if I figure out why my LO math doesn't work out:

1) My desired LO range is 1:1.2, well below what the LO section of the tuning capacitor is designed for (1:2.4). However, it looks like slapping a 100pF disk cap in parallel with the LO section will reduce its range to around 1:1.2, and I'd need to find (or wind) a new tank coil anyway.

2) By putting a (relatively huge) RF choke in series with the loopstick antenna, I'm creating a fairly unbalanced "tapped inductor". I have no idea what problems might result from this.

3) I'll be limited to broadcast-alike (10kHz AM) or similar signals unless I want to add a BFO. Since curiosity is what's prompting me, I can live with this restriction.

4) Something Completely Different that I haven't even considered. <grin!>

Has anyone tried this? I looked around the 'web a bit, and did find some "upconverter kits" which appear to turn a superhet receiver into a super-superhet receiver <grin!>, but no one attempting to directly modify an AM receiver.

I have a couple of other items with higher priority (e.g. my "Federal and State 2008 Final Tax Exam") I have to get out of the way before I'll have time to solder anything, but I would like to hear from anyone who caes to comment (especially on my math <grin!>).

Thanks...

Frank McKenney
--
All scientific men were formerly accused of practicing magic.
And no wonder, for each said to himself, "I have carried human
intelligence as far as it will go, and yet So-and-so has gone
further than I. Ergo, he has taken to sorcery."
-- Baron de Montesquieu
--
Frank McKenney, McKenney Associates
Richmond, Virginia / (804) 320-4887
Munged E-mail: frank uscore mckenney ayut mined spring dawt cahm (y'all)

From 6300772888046732550
X-Google-Thread: fc2a5,696d08425b2846c9
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X-Google-Language: ENGLISH,ASCII-7-bit
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From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <8eac5907-d1ed-4cba-bff9-0be68557b4e3@f18g2000vbf.googlegroups.com> <eb8e9b49-5957-48ed-a844-dbdc667e64ef@x14g2000yqk.googlegroups.com> <7a5d33ec-770d-445e-884f-d4de71e1281b@o4g2000pra.googlegroups.com> <Pine.NEB.4.64.0812271823530.7863@sdf.lonestar.org> <27a2de99-a7c5-4499-88d4-90ffde352f61@v4g2000vbb.googlegroups.com>
Subject: Re: Radio Shack Pro 2011 scanner schematic
Lines: 11
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X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
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Message-ID: <zGZ5l.22455$mE3.3752@newsfe14.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net

X-Trace: newsfe14.iad 1230530335 68.229.77.6 (Mon, 29 Dec 2008 05:58:55 UTC)
NNTP-Posting-Date: Mon, 29 Dec 2008 05:58:55 UTC
Organization: Cox
Date: Mon, 29 Dec 2008 00:58:49 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1968

Hey Jimmie! My Panasonic inverter microwave croaked. I got
a chance to replace the power supply! The transformer looks
just like a fancy TV flyback, and the entire board weighs
about 8 ounces. The supplies are about 50 bucks new. Panasonic
vented the ovens through the top, and the moist air flows around
the electronics on the side, causing many early failure modes.
Figured you'd be interested.

Pete

From 2453323006955386513
X-Google-Thread: 112d1e,741330d89a00600b
X-Google-Thread: fc2a5,741330d89a00600b
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
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newsp.newsguy.com!news5
From: Bill M <radioexray@geemail.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Modding an AM BCB radio for VLF reception
Date: Mon, 29 Dec 2008 07:17:39 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 10
Message-ID: <gjabkk012vl@news5.newsguy.com>
References: <JsidnbYp05epoMXUnZ2dnUVZ_gSdnZ2d@earthlink.com>
NNTP-Posting-Host: p5a3697dac95f0a4f32e07be32a17ce7ec953276e4a720412.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <JsidnbYp05epoMXUnZ2dnUVZ_gSdnZ2d@earthlink.com>
Xref: g2news1.google.com sci.electronics.design:51291
rec.radio.amateur.homebrew:1672

Frnak McKenney wrote:
> I'd like to listen in on NIST's 60kHz time broadcasts on WWVB
> "directly", but I like building things, and besides, I'm too chea...
> er, "thrifty" to go out and buy a VLF-specific receiver.

May be a moot point if you're just doing this for the heckuvit but
there's nothing to listen to per se at WWVB since the time is encoded
with pulse width modulation, ie no voice.

GL, Bill

From 7630710827510766025
X-Google-Thread: fc2a5,696d08425b2846c9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
v31g2000vbb.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio Shack Pro 2011 scanner schematic
Date: Mon, 29 Dec 2008 04:38:10 -0800 (PST)
Organization: http://groups.google.com
Lines: 30
Message-ID: <876df091-3dea-4cc6-a05e-f92ff7002b73@v31g2000vbb.googlegroups.com>
References: <8eac5907-d1ed-4cba-bff9-0be68557b4e3@f18g2000vbf.googlegroups.com>
 <eb8e9b49-5957-48ed-a844-dbdc667e64ef@x14g2000yqk.googlegroups.com>
 <7a5d33ec-770d-445e-884f-d4de71e1281b@o4g2000pra.googlegroups.com>
 <Pine.NEB.4.64.0812271823530.7863@sdf.lonestar.org> <27a2de99-a7c5-4499-88d4-90ffde352f61@v4g2000vbb.googlegroups.com>
 <zGZ5l.22455$mE3.3752@newsfe14.iad>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1230554290 27147 127.0.0.1 (29 Dec 2008 12:38:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 29 Dec 2008 12:38:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v31g2000vbb.googlegroups.com; posting-host=75.190.189.120;
 posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1673

On Dec 29, 12:58=A0am, "Tio Pedro" <radioconnect...@cox.net> wrote:
> Hey Jimmie! =A0My Panasonic inverter microwave croaked. =A0I got
> a chance to replace the power supply! =A0The transformer looks
> just like a fancy TV flyback, and the entire board weighs
> about 8 ounces. =A0The supplies are about 50 bucks new. Panasonic
> vented the ovens through the top, and the moist air flows around
> the electronics on the side, causing many early failure modes.
> Figured you'd be interested.
>
> Pete

Thanks Pete, I order one a couple of months ago to play with and found another at the thrift store the other day. I havent had much of a chance lately. I worked on main frame computer systems for over 20 years and now they put in a new system that is all PCs. You just replace the box when it breaks. I have been going to school on that so much lately I havent gotten back to my project. I do think that there is a place for HVSPs in amateur radio, maybe not microwave oven inverters but someone is going to come up with a good pwer supply at a reasonable price. I invision a device that would mount in place of an existing transformer and maybe sell for half the price of the replacement transformer. Lately my thoughts have gone more towards ways of modifying UPSs. The UPSs operate in a PWM switch mode to convert high frequency chopped signal to 60hz. I figure if you could modify the PWM data that is being used you could drive a step up transformer for HV. One problem I have is finding data on how these operate. It seems no one publishes a schematic.

Jimmie

```
From 8162027802495710240
X-Google-Thread: 112d1e,741330d89a00600b
X-Google-Thread: fc2a5,741330d89a00600b
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 29 Dec 2008 08:41:20 -0600
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
From: Frnak McKenney <frnak@far.from.the.madding.crowd.com>
Subject: Re: Modding an AM BCB radio for VLF reception
References: <JsidnbYp05epoMXUnZ2dnUVZ_gSdnZ2d@earthlink.com>
<gjabkk012vl@news5.newsguy.com>
User-Agent: slrn/0.9.7.3 (OS/2)
Message-ID: <8eSdnUhPWPkNfMXUnZ2dnUVZ_jidnZ2d@earthlink.com>
Date: Mon, 29 Dec 2008 08:41:20 -0600
Lines: 43
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 96.248.0.155
X-Trace: sv3-Ea00HT5/rmLMzXiT/
8TqSxH2ulF5kQ3DhUJlKFFFUR14YWEdLAXa1G2Yt9sRhW5Gh0YLuO7kPaXkwgs!
MSle8l4d7gHsvDH+TtxZdrLQjLNZESGmXwcOcQk+TrLiiIffHT/DUkoWrzTB69pzlWpL7R3r4I/9!
GkVavDUUedRTrtpg/Mh+wybhFrelGWizUZv2ijmZRQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com sci.electronics.design:51317
rec.radio.amateur.homebrew:1674
```

Bill,

Thanks for the comments.

On Mon, 29 Dec 2008 07:17:39 -0400, Bill M <radioexray@geemail.com> wrote:

> Frnak McKenney wrote:
>> I'd like to listen in on NIST's 60kHz time broadcasts on WWVB
>> "directly", but I like building things, and besides, I'm too chea...
>> er, "thrifty" to go out and buy a VLF-specific receiver.
>
> May be a moot point if you're just doing this for the heckuvit but
> there's nothing to listen to per se at WWVB since the time is encoded
> with pulse width modulation, ie no voice.

I'm hoping that what I build will at least give me some idea of the WWVB signal strength. I started out being curious about the various "Atomic clocks" and thought about building a dedicated 60kHz WWVB receiver, but one of the problems one runs into with an idea like that is that "debugging" can be exremely frustrating without some piece of equipment that can offer a "second opinion".

It's a question of "navigating" towards a solution. Without some sort of compass -- or at least some recognizable waypoints -- you have no idea if you're getting closer to a working design, going in circles, or moving further and further away. VOMs, 'scopes, signal generators, spectrum analyzers, PRINT/printf(), and even (Ack! Phlbbbbt!) 16" tall fanfold core dumps are all tools we have created for helping us find our way through mazes where our everyday senses are useless.

And, as you say, I'm just curious: if WWVB is out there, unheard (by me, so far), I wonder what else might be? <grin!>

Frank
--
    If you are not being criticized, you may not be doing much.
                              -- Donald Rumsfeld
--
Frank McKenney, McKenney Associates
Richmond, Virginia / (804) 320-4887
Munged E-mail: frank uscore mckenney ayut mined spring dawt cahm (y'all)

From -1848894613972919540
X-Google-Thread: 112d1e,741330d89a00600b
X-Google-Thread: fc2a5,741330d89a00600b
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!8c40745b!not-for-mail
Reply-To: "Dale Parfitt" <parinc1@verizon.net>
From: "Dale Parfitt" <parinc1@verizon.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
References: <JsidnbYp05epoMXUnZ2dnUVZ_gSdnZ2d@earthlink.com> <gjabkk012vl@news5.newsguy.com> <8eSdnUhPWPkNfMXUnZ2dnUVZ_jidnZ2d@earthlink.com>

Subject: Re: Modding an AM BCB radio for VLF reception
Lines: 36
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <W166l.1733$Es4.402@nwrddc01.gnilink.net>
Date: Mon, 29 Dec 2008 15:29:58 GMT
NNTP-Posting-Host: 96.235.87.149
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1230564598 96.235.87.149 (Mon, 29 Dec 2008 10:29:58 EST)
NNTP-Posting-Date: Mon, 29 Dec 2008 10:29:58 EST
Xref: g2news2.google.com sci.electronics.design:66031 rec.radio.amateur.homebrew:1972

"Frnak McKenney" <frnak@far.from.the.madding.crowd.com> wrote in message
news:8eSdnUhPWPkNfMXUnZ2dnUVZ_jidnZ2d@earthlink.com...
>
> Bill,
>
> Thanks for the comments.
>
> On Mon, 29 Dec 2008 07:17:39 -0400, Bill M <radioexray@geemail.com> wrote:
>> Frnak McKenney wrote:
>>> I'd like to listen in on NIST's 60kHz time broadcasts on WWVB
>>> "directly", but I like building things, and besides, I'm too chea...
>>> er, "thrifty" to go out and buy a VLF-specific receiver.
>>
>> May be a moot point if you're just doing this for the heckuvit but
>> there's nothing to listen to per se at WWVB since the time is encoded
>> with pulse width modulation, ie no voice.
>
> I'm hoping that what I build will at least give me some idea of
> the WWVB signal strength. I started out being curious about the
> various "Atomic clocks" and thought about building a dedicated
> 60kHz WWVB receiver, but one of the problems one runs into with
> an idea like that is that "debugging" can be exremely frustrating
> without some piece of equipment that can offer a "second opinion".
>

For $14 you can buy a decent converter- and put it on a decent receiver.
http://jacksonharbor.home.att.net/lfconv.htm

WWVB may be strong, but you may never know with your idea, - not knowing
your converted receiver's sensitivity, immunity to overload, images and the
ability to have a decent antenna.

Dale W4OP

```
From -92368882095634783
X-Google-Thread: fc2a5,47e514c8168a12bd,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!8c40745b!not-for-
mail
Reply-To: "Dale Parfitt" <parinc1@verizon.net>
From: "Dale Parfitt" <parinc1@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Paralleling computer power supplies
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <D366l.1734$Es4.1168@nwrddc01.gnilink.net>
Date: Mon, 29 Dec 2008 15:31:47 GMT
NNTP-Posting-Host: 96.235.87.149
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1230564707 96.235.87.149 (Mon, 29 Dec 2008 10:31:47
EST)
NNTP-Posting-Date: Mon, 29 Dec 2008 10:31:47 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:1973
X-Original-Bytes: 1097
```

Has anyone connected a pair of identical computer supplies in parallel for additional current capabilities? Did it require a low R resistor to allow for any mismatch?

Tnx,

Dale W4OP

```
From -3268032495971570067
X-Google-Thread: fc2a5,47e514c8168a12bd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!v15g2000vbb.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Paralleling computer power supplies
Date: Mon, 29 Dec 2008 08:29:22 -0800 (PST)
Organization: http://groups.google.com
Lines: 19
```

```
Message-ID: <63338202-3c36-41fd-8e50-b23f55e2cb89@v15g2000vbb.googlegroups.com>
References: <D366l.1734$Es4.1168@nwrddc01.gnilink.net>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1230568162 14878 127.0.0.1 (29 Dec 2008 16:29:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 29 Dec 2008 16:29:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v15g2000vbb.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1677

On Dec 29, 10:31=A0am, "Dale Parfitt" <pari...@verizon.net> wrote:
> Has anyone connected a pair of identical computer supplies in parallel fo=
r
> additional current capabilities? Did it require a low R resistor to allow
> for any mismatch?
>
> Tnx,
>
> Dale W4OP

It is something I looked in to one time. I hsd s few power supplies
and thought I would try it. I checked the outputs into a 10 amp loaded
and decided they werent a close enough match to even try. With no
voltage adjust on the power supplies I confess I gave up pretty
easily. If the outputs could be matched I would think this would work.
I would always try to use equalizing resistors. I have  had bad
expeiences when I didnt.

Jimmie



From 6177946886581775705
X-Google-Thread: fc2a5,47e514c8168a12bd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!f4af025b!not-for-
mail
From: "Norm Mann" <folder0735@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <D366l.1734$Es4.1168@nwrddc01.gnilink.net>
Subject: Re: Paralleling computer power supplies
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
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X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <y776l.1774$BC4.1163@nwrddc02.gnilink.net>
Date: Mon, 29 Dec 2008 16:44:14 GMT
NNTP-Posting-Host: 71.102.225.245
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1230569054 71.102.225.245 (Mon, 29 Dec 2008 11:44:14 EST)
NNTP-Posting-Date: Mon, 29 Dec 2008 11:44:14 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:1678

"Dale Parfitt" <parinc1@verizon.net> wrote in message news:D366l.1734$Es4.1168@nwrddc01.gnilink.net...

> Has anyone connected a pair of identical computer supplies in parallel for additional current capabilities? Did it require a low R resistor to allow for any mismatch?
>

Since you've asked a general question, I'll give a general answer.
The problem with paralleling power supplies is that the voltage regulators will fight each other if they are not set to regulate at the same voltage. Using a low value resistor to isolate the outputs will work, but it will use power you may not want to waste and your voltage regulation will not be as good. A technique that was used on mainframe power supplies was to put low value resistors (actually, calibrated current shunts) on both outputs into a common load. Then the regulator on one power supply would be adjusted so that the voltage drop across its resistor would match the voltage drop across the other resistor. Once the regulators were balanced in this fashion, the resistors were removed from the circuit and the power supplies were connected directly to the load. As long as the power supply regulators tracked identically, there was no problem.

HTH,

-NM

From -5268740589301564646
X-Google-Thread: fc2a5,47e514c8168a12bd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 29 Dec 2008 11:32:36 -0600
Date: Mon, 29 Dec 2008 09:32:41 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
MIME-Version: 1.0

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Paralleling computer power supplies
References: <D366l.1734$Es4.1168@nwrddc01.gnilink.net>
<y776l.1774$BC4.1163@nwrddc02.gnilink.net>
In-Reply-To: <y776l.1774$BC4.1163@nwrddc02.gnilink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <mfmdnWpMk-UplMTUnZ2dnUVZ_gsAAAAA@web-ster.com>
Lines: 49
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
Esq75G3Lz+HgTHGZtzZtu6cVwyMpbvFqPYI57GoRFsZZ9KvJBQc7EDgF1J6ixIdmbI+3q6kPRuCJ5eu!
W5Ijwvz/ehp059MdJtb+HBLAmLWLqKK0AuRjG++7w1N73UfVhcS9+4s9cYIeGqFt0+4+OKbAPI/W!
bjJOSkuvfMnLG9k=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:1976

Norm Mann wrote:
> "Dale Parfitt" <parinc1@verizon.net> wrote in message
> news:D366l.1734$Es4.1168@nwrddc01.gnilink.net...
>> Has anyone connected a pair of identical computer supplies in parallel for
>> additional current capabilities? Did it require a low R resistor to allow
>> for any mismatch?
>>
>
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> value resistors (actually, calibrated current shunts) on both outputs into a
> common load. Then the regulator on one power supply would be adjusted so
> that the voltage drop across its resistor would match the voltage drop
> across the other resistor. Once the regulators were balanced in this
> fashion, the resistors were removed from the circuit and the power supplies
> were connected directly to the load. As long as the power supply regulators
> tracked identically, there was no problem.
>
> HTH,
>
> -NM
>
>

Another method that is currently popular among high-end supplies is to
have a current command output and a current slave input. With proper
jumpering, you set up one power supply as a "master" that outputs a
current command, and have a bunch of "helper" supplies that _don't_
attempt to regulate voltage, but just supply current on command.

If you're _buying_ supplies to do this, I'd suggest hitting the surplus
places for general-purpose switching supplies. MPJA has a good
selection, and I recall being able to find the manufacturer's data
sheets with some digging. You can get much nicer prospects that way
than trying to hack a PC power supply, although it's not as cheap as
dumpster diving for PC parts.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From -2408483779941977844
X-Google-Thread: fc2a5,7ac17e8cf4cbeff2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews3.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: You know your passenger is a geek when ...
References: <Nwg5l.11115$x%.1336@nlpi070.nbdc.sbc.com> <86166b1a-8cdc-4098-b267-
d2b3e7df588a@a29g2000pra.googlegroups.com>
In-Reply-To: <86166b1a-8cdc-4098-b267-d2b3e7df588a@a29g2000pra.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 9
Message-ID: <a286l.14052$M01.5666@bignews3.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcboohjkdflgnbblfkpkmmcagnnghgflfjida
bknnjjejjlcdffcbifclokgogomcbhncmdhcleiijhgcdmleobcmodpholmcjnbhfokipbhgdhggfd
NNTP-Posting-Date: Mon, 29 Dec 2008 12:46:46 EST
Organization: BellSouth Internet Group
Date: Mon, 29 Dec 2008 12:50:32 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1680

JIMMIE wrote:
> On Dec 26, 9:36 pm, "no" <n...@no.com> wrote:
>> He notices that the digital display on your dash is a clock set to GMT.
>
> My daughter must think Im a geek, She gave me a "Fibonacci as easy as

```
> 1,1,2,3,....." T shirt for Xmas.
>
> Jimmie
I remember seeing a T shirt with "...as easy as Pi" someplace.  Same idea.


From 3567287656466559592
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews3.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
In-Reply-To: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 18
Message-ID: <q486l.14057$M01.1560@bignews3.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcbogjlmfpiepodecccphpibdmhglmjhdnidda
bknnjjejjlcdffcbifclokgogomcbhncmdhcleiijhgcdmjeckhgaclccbcjidekfngodfappodfma
NNTP-Posting-Date: Mon, 29 Dec 2008 12:49:10 EST
Organization: BellSouth Internet Group
Date: Mon, 29 Dec 2008 12:52:56 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1681

JIMMIE wrote:
> After years of avoiding morse code I am finally getting into it. the
> ideal of operating a very simple transmitter appeals to my junkbox/
> trashcan construction mentality.
> I am looking for a substitue for a 6L6 that has the plate brought out
> the top. I was trying to build a little Glowbug transmitter but was
> having all kinds of problems neutralizing the the thing. I think I
> would have better luck if I can separate the grid and plate circuits
> from each other. I am considering an 807 as a replacement Suggestions
> would be appreciated.
>
> Jimmie
To Hijack an old thread...

The way tubes were numbered sometimes....
The 25L6 and 50L6 are NOT 6L6's with different heater voltages.
Actually both of these tubes are IDENTICAL with the 6W6GT except for the
heater ratings.
```

From -7663281342100220301
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe05.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com> <q486l.14057$M01.1560@bignews3.bellsouth.net>
Subject: Re: 6L6 substitute
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <3y86l.34896$fs1.26748@newsfe05.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe05.iad 1230574847 68.229.77.6 (Mon, 29 Dec 2008 18:20:47 UTC)
NNTP-Posting-Date: Mon, 29 Dec 2008 18:20:47 UTC
Organization: Cox
Date: Mon, 29 Dec 2008 13:20:47 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1682

"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message news:q486l.14057$M01.1560@bignews3.bellsouth.net...

> > To Hijack an old thread...
>
> The way tubes were numbered sometimes....
> The 25L6 and 50L6 are NOT 6L6's with different heater voltages.
> Actually both of these tubes are IDENTICAL with the 6W6GT except for the
> heater ratings.

Ken, isn't the 6W6 a high perveance tube, hence the relatively high filament current? If so, it might work well in a TX with slightly lower plate volages. I have a sleeve or two of those looking for a project...

Pete

From 1828077582298081194
X-Google-Thread: fc2a5,464c4e18e63ae625
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!news.alt.net!

```
news.astraweb.com!border2.newsrouter.astraweb.com!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: UHF (70cm) PA
Date: Mon, 19 Jan 2009 01:17:52 -0800
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2009.01.19.09.17.52.302313@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <6721ab92-e477-4bb7-96fa-5d6b176eb3c9@r41g2000prr.googlegroups.com>
<77d3aaec-50e2-40fc-ab88-d864ffdf8555@y1g2000pra.googlegroups.com>
<6tij81Fb5r7cU1@mid.individual.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 10
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 9d6b5855.news.astraweb.com
X-Trace: DXC=jTP9SQjb0ZIRm_f?\>0G3FL?
0kYOcDh@JcKbERRL;ZcGL9l6XX8>c:LFDS<UL7kA@Lnh2cCTA><0OU2\;XR<1a1LU6^DRb;TR8@
Xref: g2news1.google.com rec.radio.amateur.homebrew:1783

On Mon, 19 Jan 2009 06:00:45 +0000, Bob wrote:

<snip>

> If I was designing a UHF PA, I'd choose FETs these days!

Alas, if automobiles used 48V instead of 12 ;-)

Cheers!



From -535523943429181102
X-Google-Thread: fc2a5,464c4e18e63ae625
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!p2g2000prn.googlegroups.com!not-for-
mail
From: BV <bv@mailme.dk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UHF (70cm) PA
Date: Mon, 19 Jan 2009 02:32:10 -0800 (PST)
Organization: http://groups.google.com
Lines: 31
Message-ID: <f536e4eb-bf0a-4a19-bfc5-dc68a7f950f8@p2g2000prn.googlegroups.com>
References: <6721ab92-e477-4bb7-96fa-5d6b176eb3c9@r41g2000prr.googlegroups.com>
     <ac592f5e-61b1-46b6-a52c-272db903daf7@w24g2000prd.googlegroups.com>
NNTP-Posting-Host: 87.58.248.146
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1232361130 20991 127.0.0.1 (19 Jan 2009 10:32:10 GMT)
X-Complaints-To: groups-abuse@google.com
```

```
NNTP-Posting-Date: Mon, 19 Jan 2009 10:32:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p2g2000prn.googlegroups.com; posting-host=87.58.248.146;
     posting-account=O5CbzgkAAAAox3K5exA2xEFdrB5yacDq
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
     .NET CLR 2.0.50727; .NET CLR 3.0.04506; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2081

Hi Tom

> Hi Brian,
>
> My Motorola data book says these are designed for class C (e.g. FM)
> amplifier service, not linear. =A0I suppose you should expect to get a
> little less PEP power out of them in linear service, for good
> linearity.
>
> The Moto data sheet has a test circuit; I could scan it, if it would
> be any use to you. =A0The microstrip dimensions are for glass-teflon
> board, er=3D2.55, 1/16" (1.6mm) thick. =A0Of course, the test circuit is
> for a single transistor, not a pair. =A0It is solidly class C: =A0the bas=
e
> and emitter are both at DC ground.
>
> Cheers,
> Tom- Skjul tekst i anf=F8rselstegn -
>
> - Vis tekst i anf=F8rselstegn -

This is correct, but I found out that Tokyo Hy-Power HL-120U uses
these transistors in this PA. If they are able to make a 100W linear
amp i hope to be able to do the same:-)
 (The list where I figured out what transistor type is udes in PA's:
http://www.electronicpool.de/en/funkgeraetetypen.html)

I have not been able to find a schematic for HL-120U. It would be nice
to see how they designed the bias circuit.

Medt 73 de OZ1BV, Brian


From 2606638082855782010
X-Google-Thread: fc2a5,464c4e18e63ae625
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad.newshosting.com!
newshosting.com!69.16.185.21.MISMATCH!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe09.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
```

References: <6721ab92-e477-4bb7-96fa-5d6b176eb3c9@r41g2000prr.googlegroups.com> <ac592f5e-61b1-46b6-a52c-272db903daf7@w24g2000prd.googlegroups.com> <f536e4eb-bf0a-4a19-bfc5-dc68a7f950f8@p2g2000prn.googlegroups.com>
Subject: Re: UHF (70cm) PA
Lines: 40
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <8qZcl.29187$qi.10872@newsfe09.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe09.iad 1232364292 68.229.77.6 (Mon, 19 Jan 2009 11:24:52 UTC)
NNTP-Posting-Date: Mon, 19 Jan 2009 11:24:52 UTC
Organization: Cox
Date: Mon, 19 Jan 2009 06:24:33 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:2082

"BV" <bv@mailme.dk> wrote in message
news:f536e4eb-bf0a-4a19-bfc5-dc68a7f950f8@p2g2000prn.googlegroups.com...
Hi Tom

> Hi Brian,
>
> My Motorola data book says these are designed for class C (e.g. FM)
> amplifier service, not linear. I suppose you should expect to get a
> little less PEP power out of them in linear service, for good
> linearity.
>
> The Moto data sheet has a test circuit; I could scan it, if it would
> be any use to you. The microstrip dimensions are for glass-teflon
> board, er=2.55, 1/16" (1.6mm) thick. Of course, the test circuit is
> for a single transistor, not a pair. It is solidly class C: the base
> and emitter are both at DC ground.
>
> Cheers,
> Tom- Skjul tekst i anf�rselstegn -
>
> - Vis tekst i anf�rselstegn -

This is correct, but I found out that Tokyo Hy-Power HL-120U uses
these transistors in this PA. If they are able to make a 100W linear
amp i hope to be able to do the same:-)
(The list where I figured out what transistor type is udes in PA's:
http://www.electronicpool.de/en/funkgeraetetypen.html)

I have not been able to find a schematic for HL-120U. It would be nice
to see how they designed the bias circuit.

Medt 73 de OZ1BV, Brian

You will find that the Mirage linears used the same family of
transistors as well.

pete

```
From -3163343528767555425
X-Google-Thread: fc2a5,464c4e18e63ae625
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!p2g2000prn.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UHF (70cm) PA
Date: Mon, 19 Jan 2009 08:28:06 -0800 (PST)
Organization: http://groups.google.com
Lines: 15
Message-ID: <c66d41d6-498b-4352-af48-bcea0a57776c@p2g2000prn.googlegroups.com>
References: <6721ab92-e477-4bb7-96fa-5d6b176eb3c9@r41g2000prr.googlegroups.com>
     <77d3aaec-50e2-40fc-ab88-d864ffdf8555@y1g2000pra.googlegroups.com>
     <6tij81Fb5r7cU1@mid.individual.net>
<pan.2009.01.19.09.17.52.302313@localhost.localdomain>
NNTP-Posting-Host: 68.15.194.155
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1232382487 20804 127.0.0.1 (19 Jan 2009 16:28:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Jan 2009 16:28:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p2g2000prn.googlegroups.com; posting-host=68.15.194.155;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2083
```

On Jan 19, 4:17=A0am, geek <g...@localhost.localdomain> wrote:

> On Mon, 19 Jan 2009 06:00:45 +0000, Bob wrote:
>
> <snip>
>
> > If I was designing a UHF PA, I'd choose FETs these days!
>
> Alas, if automobiles used 48V instead of 12 ;-)
>
> Cheers!

48 volts is not that hard to do in an auto if you can mount a second
alternator. There is plenty of info on this on the web.

Jimmie

```
From -3057886120080265401
X-Google-Thread: fc2a5,464c4e18e63ae625
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
feeder.erje.net!news2.arglkargh.de!news.karotte.org!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UHF (70cm) PA
Date: 19 Jan 2009 17:49:47 GMT
Lines: 16
Message-ID: <slrngn9f9q.2v41.bit-bucket@shell.config.com>
References: <6721ab92-e477-4bb7-96fa-5d6b176eb3c9@r41g2000prr.googlegroups.com>
<77d3aaec-50e2-40fc-ab88-d864ffdf8555@y1g2000pra.googlegroups.com>
<6tij81Fb5r7cU1@mid.individual.net>
<pan.2009.01.19.09.17.52.302313@localhost.localdomain>
Reply-To: If you must, <Reply_to@my.sig.adr>
X-Trace: individual.net 2lP9bVzZzH0gZTVY394agQYT5jjs13TCfkOnTiNrqyF71fOv7v
Cancel-Lock: sha1:AFcKBj1QvgaShogEuG7SY9xAjDA=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1787

On Mon, 19 Jan 2009 01:17:52 -0800, geek wrote:
> On Mon, 19 Jan 2009 06:00:45 +0000, Bob wrote:
>
><snip>
>
>> If I was designing a UHF PA, I'd choose FETs these days!
>
> Alas, if automobiles used 48V instead of 12 ;-)

They will.

Jonesy
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    * Killfiling google & XXXXbanter.com: jonz.net/ng.htm
```

```
From -3546068113400837171
X-Google-Thread: fc2a5,d292f439035d3da3
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
news2.arglkargh.de!news.mixmin.net!fmmck
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
```

Subject: Re: Noise power measurement...
Date: Mon, 19 Jan 2009 14:00:52 -0500
Organization: Mixmin
Lines: 40
Message-ID: <fmmck-BA9A2A.14004819012009@news.mixmin.net>
References: <8kO9l.116622$_03.110330@reader1.news.saunalahti.fi>
NNTP-Posting-Host: 12b4b7107e4be83caed43e2b6215bebd
X-Complaints-To: abuse@mixmin.net
NNTP-Posting-Date: Mon, 19 Jan 2009 19:00:58 +0000 (UTC)
User-Agent: MT-NewsWatcher/3.5.3b3 (Intel Mac OS X)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1788

In article <8kO9l.116622$_03.110330@reader1.news.saunalahti.fi>,
Kari B <kba@nic.fi> wrote:

> I have got very simple noise source for receiver measurements, but
> noise power verification makes some trouble...
> Old analyzer noise floor is around -125dbm without input and noise power
> using 10kHz BW is -95dbm using display 'peak' setting and long video
> filter at 30MHz...
>
> Same setup with display 'inf' setting shows -105dbm for the noise.
>
> Sorry I don't have a manual for the analyzer to find what the 'inf'
> means... but which value would be acceptable ?
> I would use the first one ?

Kari-

I was hoping your question would elicit comments from others who are experienced in noise measurement.

Back in the 60s I had a job as a test technician. One assignment was to measure noise power in an AM aircraft receiver. I didn't know anything about noise, but had a procedure to follow.

As I recall, you set up the receiver with audio output that would drive an AC voltmeter calibrated in dB. You were to inject a modulated signal at the frequency where the receiver was tuned, and increase the signal level until the audio output increased by 3 dB above the noise level. The theory was that that signal power would be equal to the noise power in the channel.

I still don't know much about noise measurement. I can see how this test might be valid for an SSB or CW receiver, but doubt it was any more than a go/no go test for the AM receiver.

In your case, wouldn't RMS noise measurement be required rather than peak measurement?

Fred
K4DII

```
From 7600768479953107682
X-Google-Thread: fc2a5,464c4e18e63ae625
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
feeder.erje.net!feeder2.news.saunalahti.fi!feeder1.news.saunalahti.fi!
reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UHF (70cm) PA
Message-ID: <vij9n4df0u26qb682vkq3hgstv15uejn4i@4ax.com>
References: <6721ab92-e477-4bb7-96fa-5d6b176eb3c9@r41g2000prr.googlegroups.com>
<77d3aaec-50e2-40fc-ab88-d864ffdf8555@y1g2000pra.googlegroups.com>
<6tij81Fb5r7cU1@mid.individual.net>
<pan.2009.01.19.09.17.52.302313@localhost.localdomain> <slrngn9f9q.2v41.bit-
bucket@shell.config.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 19
Date: Mon, 19 Jan 2009 21:05:25 +0200
NNTP-Posting-Host: 85.77.222.117
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1232391922 85.77.222.117 (Mon, 19 Jan 2009
21:05:22 EET)
NNTP-Posting-Date: Mon, 19 Jan 2009 21:05:22 EET
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:2086
```

On 19 Jan 2009 17:49:47 GMT, Allodoxaphobia <bit-bucket@config.com>
wrote:

>On Mon, 19 Jan 2009 01:17:52 -0800, geek wrote:
>> On Mon, 19 Jan 2009 06:00:45 +0000, Bob wrote:
>>
>><snip>
>>
>>> If I was designing a UHF PA, I'd choose FETs these days!
>>
>> Alas, if automobiles used 48V instead of 12 ;-)
>
>They will.

A few years ago 42 V (3x14 V) was supposed to be the new automobile
voltage, but I have not heard much of it lately :-).

Paul OH3LWR

```
From -2614367066438116434
```

X-Google-Thread: fc2a5,d292f439035d3da3
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <8kO9l.116622$_03.110330@reader1.news.saunalahti.fi> <fmmck-BA9A2A.14004819012009@news.mixmin.net>
Subject: Re: Noise power measurement...
Lines: 29
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <uh6dl.476486$TT4.304467@attbi_s22>
NNTP-Posting-Host: 173.21.179.211
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1232400602 173.21.179.211 (Mon, 19 Jan 2009 21:30:02 GMT)
NNTP-Posting-Date: Mon, 19 Jan 2009 21:30:02 GMT
Organization: AT&T ASP.att.net
Date: Mon, 19 Jan 2009 21:30:02 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:1790

> I was hoping your question would elicit comments from others who are experienced in noise measurement.
>
> Back in the 60s I had a job as a test technician. One assignment was to measure noise power in an AM aircraft receiver. I didn't know anything about noise, but had a procedure to follow.
>
> As I recall, you set up the receiver with audio output that would drive an AC voltmeter calibrated in dB. You were to inject a modulated signal at the frequency where the receiver was tuned, and increase the signal level until the audio output increased by 3 dB above the noise level. The theory was that that signal power would be equal to the noise power in the channel.
>
> I still don't know much about noise measurement. I can see how this test might be valid for an SSB or CW receiver, but doubt it was any more than a go/no go test for the AM receiver.
>
> In your case, wouldn't RMS noise measurement be required rather than peak measurement?
>
> Fred
> K4DII

See G8KBB's website. Like to measure to 3 decimals?

W4ZCB

```
From 2181931890564607330
X-Google-Thread: fc2a5,464c4e18e63ae625
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!r41g2000prr.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UHF (70cm) PA
Date: Mon, 19 Jan 2009 14:13:29 -0800 (PST)
Organization: http://groups.google.com
Lines: 29
Message-ID: <91645d22-5db2-4243-ada7-5718cc554708@r41g2000prr.googlegroups.com>
References: <6721ab92-e477-4bb7-96fa-5d6b176eb3c9@r41g2000prr.googlegroups.com>
     <77d3aaec-50e2-40fc-ab88-d864ffdf8555@y1g2000pra.googlegroups.com>
     <6tij81Fb5r7cU1@mid.individual.net>
NNTP-Posting-Host: 76.226.137.177
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1232403209 20308 127.0.0.1 (19 Jan 2009 22:13:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Jan 2009 22:13:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r41g2000prr.googlegroups.com; posting-host=76.226.137.177;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1791

On Jan 19, 1:00=A0am, Bob <biasco...@invalid.inv> wrote:
> BV wrote:
> > P.S. It's a linear amp i want to build
>
> > 73 de OZ1BV, Brian
>
> A bit of advice:
>
>.........a circuit without DC bias. =A0The Vbe max
> is only 4 Volts, which gives a useful hint!
>
Hey OM,

I don't thin so. The hint should be the input impedence is like less
than 1 ohm. And although you may state that Vbe max is 4, that may
apply in class C but not say class AB where the all yoiu will be doing
is varying the current thru the base and the voltage will swing next
to nothing, like a base swing current of 10 or more amps into the base
```

impendence.

So you can't find a good schematic for a linear, I suggest you get a good spice program, and a really big smith chart.

I wouldn't use teflon board of any kind, when teflon burns it turns to mustard gas.

73 OM

n8zu

```
From -1560094509498148108
X-Google-Thread: fc2a5,8afd947ac32c8371
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews8.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Subminiature tube CK526AX
References: <5439128a-3ccf-41d0-af62-54d1ef482737@v18g2000pro.googlegroups.com>
     <Inscl.5143$aO6.4736@bignews3.bellsouth.net> <ccb161ce-b7c1-4e84-8434-
cf5142dd28ec@k36g2000pri.googlegroups.com>
In-Reply-To: <ccb161ce-b7c1-4e84-8434-cf5142dd28ec@k36g2000pri.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 10
Message-ID: <TJ7dl.5980$Ex.526@bignews8.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mabncmnekmdohbabdbdpiflmbcekedmfhojhikkbagflhcbokpendjdocieaaenlbcjhjhfbdgakjgbkbb
mmhmnnigmhcgekhbiladbojmmblehelhikpiefcfcnlkiojinhjmdnlnfbpiegfjebpcldjjpilnie
NNTP-Posting-Date: Mon, 19 Jan 2009 18:08:35 EST
Organization: BellSouth Internet Group
Date: Mon, 19 Jan 2009 18:11:50 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1792
X-Original-Bytes: 1550
```

Fred wrote:
> Thanks Ken,
> now I'm looking for receiver and or transmitter circuits for this
> tube.
> Tnks
> 73
> Fred.
>

http://schmarder.com/radios/tube/index.htm
He has a project using a sub-mini tube that you could adapt

From -1472872931896237372
X-Google-Thread: fc2a5,464c4e18e63ae625
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
feeder.erje.net!news.musoftware.de!wum.musoftware.de!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 48V automotive systems -- WAS: [UHF (70cm) PA]
Date: 19 Jan 2009 23:43:39 GMT
Lines: 22
Message-ID: <slrngna41b.1rce.bit-bucket@shell.config.com>
References: <6721ab92-e477-4bb7-96fa-5d6b176eb3c9@r41g2000prr.googlegroups.com>
<77d3aaec-50e2-40fc-ab88-d864ffdf8555@y1g2000pra.googlegroups.com>
<6tij81Fb5r7cU1@mid.individual.net>
<pan.2009.01.19.09.17.52.302313@localhost.localdomain> <slrngn9f9q.2v41.bit-bucket@shell.config.com> <vij9n4df0u26qb682vkq3hgstv15uejn4i@4ax.com>
Reply-To: If you must, <Reply_to@my.sig.adr>
X-Trace: individual.net XbhdIXiCSZnc0Palv1kyqgA2tzlGHb5oYLkOK7/f9cv3f8HZJ9
Cancel-Lock: sha1:XyRkkk/ifqm1LhctqtNVPrlXQ18=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1793

On Mon, 19 Jan 2009 21:05:25 +0200, Paul Keinanen wrote:
> On 19 Jan 2009 17:49:47 GMT, Allodoxaphobia wrote:
>>On Mon, 19 Jan 2009 01:17:52 -0800, geek wrote:
>>> On Mon, 19 Jan 2009 06:00:45 +0000, Bob wrote:
>>>
>>><snip>
>>>
>>>> If I was designing a UHF PA, I'd choose FETs these days!
>>>
>>> Alas, if automobiles used 48V instead of 12 ;-)
>>
>>They will.
>
> A few years ago 42 V (3x14 V) was supposed to be the new automobile
> voltage, but I have not heard much of it lately :-).

I read about the engineering and design that was going into the "new
48V automotive systems" in the IEEE Spectrum in the last year or so.

A brief Google search of ieee.org did not locate the article for me.

Jonesy

From -6713180674838571325

X-Google-Thread: fc2a5,464c4e18e63ae625
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!k36g2000pri.googlegroups.com!not-for-mail
From: joeturn <joeturn2000@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 48V automotive systems -- WAS: [UHF (70cm) PA]
Date: Mon, 19 Jan 2009 16:07:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 26
Message-ID: <e3442914-ea78-4cb5-803e-1def7252398d@k36g2000pri.googlegroups.com>
References: <6721ab92-e477-4bb7-96fa-5d6b176eb3c9@r41g2000prr.googlegroups.com>
     <77d3aaec-50e2-40fc-ab88-d864ffdf8555@y1g2000pra.googlegroups.com>
     <6tij81Fb5r7cU1@mid.individual.net>
<pan.2009.01.19.09.17.52.302313@localhost.localdomain>
     <slrngn9f9q.2v41.bit-bucket@shell.config.com>
<vij9n4df0u26qb682vkq3hgstv15uejn4i@4ax.com>
     <slrngna41b.1rce.bit-bucket@shell.config.com>
NNTP-Posting-Host: 24.95.252.127
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1232410048 8855 127.0.0.1 (20 Jan 2009 00:07:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 20 Jan 2009 00:07:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k36g2000pri.googlegroups.com; posting-host=24.95.252.127;
     posting-account=TOBUfggAAAC5Ow7sgid-1fbF1N9O6T1h
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2091

On Jan 19, 6:43=A0pm, Allodoxaphobia <bit-buc...@config.com> wrote:
> On Mon, 19 Jan 2009 21:05:25 +0200, Paul Keinanen wrote:
> > On 19 Jan 2009 17:49:47 GMT, Allodoxaphobia wrote:
> >>On Mon, 19 Jan 2009 01:17:52 -0800, geek wrote:
> >>> On Mon, 19 Jan 2009 06:00:45 +0000, Bob wrote:
>
> >>><snip>
>
> >>>> If I was designing a UHF PA, I'd choose FETs these days!
>
> >>> Alas, if automobiles used 48V instead of 12 ;-)
>
> >>They will.
>
> > A few years ago 42 V (3x14 V) was supposed to be the new automobile
> > voltage, but I have not heard much of it lately :-).
>
> I read about the engineering and design that was going into the "new
> 48V automotive systems" in the IEEE Spectrum in the last year or so.

```
>
> A brief Google search of ieee.org did not locate the article for me.
>
> Jonesy

http://search.yahoo.com/search;_ylt=3DA0geu.k3FXVJ4h8B_O1XNyoA?p=3D42+V+aut=
omobile&y=3DSearch&fr=3Db1ie7


From -5754120350724729560
X-Google-Thread: fc2a5,2fc5f03994f48b12
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!a12g2000pro.googlegroups.com!not-for-
mail
From: joeturn <joeturn2000@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: no traffic here?
Date: Mon, 19 Jan 2009 16:15:37 -0800 (PST)
Organization: http://groups.google.com
Lines: 8
Message-ID: <4e920021-3a6c-4676-a82e-c369f0fe0d38@a12g2000pro.googlegroups.com>
References: <5Mqdnb1dj5da7uzUnZ2dnUVZ_vOdnZ2d@giganews.com>
     <FCmcl.197$Aw2.42@nwrddc02.gnilink.net>
NNTP-Posting-Host: 24.95.252.127
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1232410537 11023 127.0.0.1 (20 Jan 2009 00:15:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 20 Jan 2009 00:15:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a12g2000pro.googlegroups.com; posting-host=24.95.252.127;
     posting-account=TOBUfggAAAC5Ow7sgid-1fbF1N9O6T1h
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1795

On Jan 17, 10:15=A0am, alchazz <no.s...@wanted.com> wrote:
> On Fri, 16 Jan 2009 21:59:34 -0800, Lynn wrote:
> > Test to see if group is still alive in giganews
>
> I thought you only used your ham radios. What are you doing on the
> internet? =A0;-)

dont have a radio


From -3538001946935689790
X-Google-Thread: fc2a5,464c4e18e63ae625
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news1.google.com!postnews.google.com!g39g2000pri.googlegroups.com!not-for-
mail
From: BV <bv@mailme.dk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UHF (70cm) PA
Date: Tue, 20 Jan 2009 05:47:01 -0800 (PST)
Organization: http://groups.google.com
Lines: 6
Message-ID: <89a9fc5b-1cd8-4978-978e-f2a7533223ab@g39g2000pri.googlegroups.com>
References: 6721ab92-e477-4bb7-96fa-5d6b176eb3c9@r41g2000prr.googlegroups.com
NNTP-Posting-Host: 87.58.248.146
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1232459221 31705 127.0.0.1 (20 Jan 2009 13:47:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 20 Jan 2009 13:47:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g39g2000pri.googlegroups.com; posting-host=87.58.248.146;
     posting-account=O5CbzgkAAAAox3K5exA2xEFdrB5yacDq
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1796
```

Hi folks

I found this: http://www.emartin.it/it9vky/Risorse/uhfpa/uhfpa.htm
Seems like a very good, even a PCB layout is downloadable...

Best 73 de OZ1BV, Brian

```
From -6718864920597690379
X-Google-Thread: fc2a5,4b721111888fee38,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y1g2000pra.googlegroups.com!not-for-
mail
From: Travis <TravisCurrier@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: New Coaxial Products Catalog
Date: Tue, 20 Jan 2009 11:17:29 -0800 (PST)
Organization: http://groups.google.com
Lines: 20
Message-ID: <a9fad34f-b514-444d-8ffd-507d18bbba44@y1g2000pra.googlegroups.com>
NNTP-Posting-Host: 72.54.251.178
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1232479049 28770 127.0.0.1 (20 Jan 2009 19:17:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 20 Jan 2009 19:17:29 +0000 (UTC)
```

Complaints-To: groups-abuse@google.com
Injection-Info: y1g2000pra.googlegroups.com; posting-host=72.54.251.178;
     posting-account=DlP5YwoAAABdjm_DJzoZgY1pnXMYD7rO
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.0; en-US)
     AppleWebKit/525.19 (KHTML, like Gecko) Chrome/1.0.154.43 Safari/
525.19,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1797

New Coaxial Products Catalog

CABLE ASSEMBLIESCONNECTORS**ADAPTERS**ATTENUATORS**RF
COMPONENTS**TOOLS**BULK COAX CABLE**

NEW CATALOG:

http://www.aaarfproducts.com/catalog/CATALOGSmallFile.pdf

INVENTORY CLEARANCE SALE:

http://www.aaarfproducts.com/catalog/CSAAARF4.pdf

AAA RF Products
Phone: 949-481-3154
Email:sales@aaarfproducts.com
Website: www.aaarfproducts.com
Location: San Clemente, CA

From -6129073060141342111
X-Google-Thread: fc2a5,d292f439035d3da3
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
gnilink.net!nx01.iad.newshosting.com!newshosting.com!news2.euro.net!
newsfeed.freenet.de!news.osn.de!diablo1.news.osn.de!feeder.erje.net!
feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Kari B <kba@nic.fi>
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Noise power measurement...
References: <8kO9l.116622$_03.110330@reader1.news.saunalahti.fi> <fmmck-
BA9A2A.14004819012009@news.mixmin.net>
In-Reply-To: <fmmck-BA9A2A.14004819012009@news.mixmin.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 54
Message-ID: <bZpdl.121602$_03.25069@reader1.news.saunalahti.fi>
Date: Tue, 20 Jan 2009 21:56:09 +0200

NNTP-Posting-Host: 85.77.208.39
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1232481223 85.77.208.39 (Tue, 20 Jan 2009 21:53:43 EET)
NNTP-Posting-Date: Tue, 20 Jan 2009 21:53:43 EET
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:2095

Fred McKenzie wrote:
> In article <8kO9l.116622$_03.110330@reader1.news.saunalahti.fi>,
> Kari B <kba@nic.fi> wrote:
>
>
>> I have got very simple noise source for receiver measurements, but
>> noise power verification makes some trouble...
>> Old analyzer noise floor is around -125dbm without input and noise power
>> using 10kHz BW is -95dbm using display 'peak' setting and long video
>> filter at 30MHz...
>>
>> Same setup with display 'inf' setting shows -105dbm for the noise.
>>
>> Sorry I don't have a manual for the analyzer to find what the 'inf'
>> means... but which value would be acceptable ?
>> I would use the first one ?
>>
>
> Kari-
>
> I was hoping your question would elicit comments from others who are
> experienced in noise measurement.
>
> Back in the 60s I had a job as a test technician. One assignment was to
> measure noise power in an AM aircraft receiver. I didn't know anything
> about noise, but had a procedure to follow.
>
> As I recall, you set up the receiver with audio output that would drive
> an AC voltmeter calibrated in dB. You were to inject a modulated signal
> at the frequency where the receiver was tuned, and increase the signal
> level until the audio output increased by 3 dB above the noise level.
> The theory was that that signal power would be equal to the noise power
> in the channel.
>
> I still don't know much about noise measurement. I can see how this
> test might be valid for an SSB or CW receiver, but doubt it was any more
> than a go/no go test for the AM receiver.
>
> In your case, wouldn't RMS noise measurement be required rather than
> peak measurement?
>
> Fred
> K4DII
>
Hello Fred

Ok, average value was a good point, power is usually measured in RMS. I
believe it applies also to
wideband noise. Analyzer has also some own input noise, but noise
source signal was quite much
almost 20dB above it so there is some gap.
I guess taking off the 'peak' display will give readings good enough.

br Kari B

```
From 1345138226119090413
X-Google-Thread: fc2a5,464c4e18e63ae625
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.glorb.com!
feeder.erje.net!news.osn.de!diablo1.news.osn.de!newsfeed.freenet.de!
news2.euro.net!newsfeed.bit.nl!eweka.nl!hq-usenetpeers.eweka.nl!
cyclone03.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf02.ams.highwinds-media.com!newsfe30.ams2.POSTED!8bc1e37e!not-for-mail
From: Chris Jones <lugnut808@yahoo.com>
Subject: Re: UHF (70cm) PA
Newsgroups: rec.radio.amateur.homebrew
References: <6721ab92-e477-4bb7-96fa-5d6b176eb3c9@r41g2000prr.googlegroups.com>
<77d3aaec-50e2-40fc-ab88-d864ffdf8555@y1g2000pra.googlegroups.com>
<6tij81Fb5r7cU1@mid.individual.net>
<pan.2009.01.19.09.17.52.302313@localhost.localdomain>
Lines: 23
User-Agent: KNode/0.10.9
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <61rdl.6$6p.3@newsfe30.ams2>
X-Complaints-To: abuse@WWWSpace.NET
NNTP-Posting-Date: Tue, 20 Jan 2009 21:06:10 UTC
Date: Tue, 20 Jan 2009 21:06:17 +0000
Xref: g2news2.google.com rec.radio.amateur.homebrew:2096
```

geek wrote:

> On Mon, 19 Jan 2009 06:00:45 +0000, Bob wrote:
>
> <snip>
>
>> If I was designing a UHF PA, I'd choose FETs these days!
>
> Alas, if automobiles used 48V instead of 12 ;-)
>
> Cheers!

A lot of stereos have a DC-DC converter to generate a supply voltage like
that for the audio amplifier.

If you do build a DC-DC converter, then at least the output voltage could be well regulated and free of spikes, unlike an automotive "12V" supply. Of course quite a bit of shielding and LC filtering of the supply may be needed to stop the PA supply from having ripple that will cause AM sidebands on the Tx signal at an offset equal to the switcher frequency.

Chris

```
From 7480365828893716261
X-Google-Thread: fc2a5,2fc5f03994f48b12
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!r32g2000vba.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: no traffic here?
Date: Tue, 20 Jan 2009 19:54:16 -0800 (PST)
Organization: http://groups.google.com
Lines: 17
Message-ID: <f4ff4c40-b53c-4af2-aeb2-3ac6f8135e7d@r32g2000vba.googlegroups.com>
References: <5Mqdnb1dj5da7uzUnZ2dnUVZ_vOdnZ2d@giganews.com>
     <FCmcl.197$Aw2.42@nwrddc02.gnilink.net> <4e920021-3a6c-4676-a82e-
c369f0fe0d38@a12g2000pro.googlegroups.com>
NNTP-Posting-Host: 76.226.137.177
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1232510056 24021 127.0.0.1 (21 Jan 2009 03:54:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 21 Jan 2009 03:54:16 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r32g2000vba.googlegroups.com; posting-host=76.226.137.177;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.0.5)
     Gecko/2008121622 Ubuntu/8.04 (hardy) Firefox/3.0.5,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1800
```

On Jan 19, 7:15=A0pm, joeturn <joeturn2...@yahoo.com> wrote:
> On Jan 17, 10:15=A0am, alchazz <no.s...@wanted.com> wrote:
>
> > On Fri, 16 Jan 2009 21:59:34 -0800, Lynn wrote:
> > > Test to see if group is still alive in giganews
>
> > I thought you only used your ham radios. What are you doing on the
> > internet? =A0;-)
>
> dont have a radio

Hey Om

What do you call that filling in your tooth? A crystal radio..

73 OM
n8zu

From 3003755846727951954
X-Google-Thread: fc2a5,4b721111888fee38
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!backlog2.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 21 Jan 2009 13:06:10 -0600
From: Dave <joe@somewhere.com>
Subject: Re: New Coaxial Products Catalog
Newsgroups: rec.radio.amateur.homebrew
References: <a9fad34f-b514-444d-8ffd-507d18bbba44@y1g2000pra.googlegroups.com>
User-Agent: Pan/0.129 (Benson & Hedges Moscow Gold)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <VICdnRQo6JC_7-rUnZ2dnUVZ_oTinZ2d@earthlink.com>
Date: Wed, 21 Jan 2009 13:06:10 -0600
Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 173.98.24.101
X-Trace: sv3-
XAFOH8kdNkaUzmDUdMCeChqtRhlNMq9AhgM2T9+AmKnQoGPsII1YqqAfqIcGwPR6Fj0v8HblPTumI1X!
UH0rntukzjzrD2BAflNxfJiUJxVGPWPFEve/SDtLZt23FJnvWl8/RamzkwZb7QxZRCQUDJvFyFB2!
oBY8yo2BShpdI/MZqyXtgBQiEXqttFuCpQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 1725
Xref: g2news2.google.com rec.radio.amateur.homebrew:2098

On Tue, 20 Jan 2009 11:17:29 -0800, Travis wrote:

> New Coaxial Products Catalog
>
> **CABLE ASSEMBLIES**CONNECTORS**ADAPTERS**ATTENUATORS**RF
> COMPONENTS**TOOLS**BULK COAX CABLE**
>
>
> NEW CATALOG:
>
> http://www.aaarfproducts.com/catalog/CATALOGSmallFile.pdf
>
> INVENTORY CLEARANCE SALE:
>

> http://www.aaarfproducts.com/catalog/CSAAARF4.pdf
>
>
> AAA RF Products
> Phone: 949-481-3154
> Email:sales@aaarfproducts.com
> Website: www.aaarfproducts.com
> Location: San Clemente, CA

Looks just like Pasternack's catalog

http://www.pasternack.com/DownloadCatalogs.aspx

From -2921092179059670273
X-Google-Thread: 108778,fc94239d11d5edfe
X-Google-Thread: 10ed5f,fc94239d11d5edfe
X-Google-Thread: fc2a5,fc94239d11d5edfe
X-Google-Thread: 10bf43,b4e1387c9243c5aa,start
X-Google-Thread: 107ada,b4e1387c9243c5aa,start
X-Google-Attributes:
gid108778,gid10ed5f,gidfc2a5,gid10bf43,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
gnilink.net!nx01.iad.newshosting.com!newshosting.com!216.196.98.140.MISMATCH!
Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local02.nntp.dca.giganews.com!nntp.got.net!news.got.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 23 Jan 2009 13:31:27 -0600
From: dloydlavies@gmail.com
Newsgroups: rec.radio.amateur,alt.radio.amateur,alt.ham-radio,rec.ham-radio,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.amateur.misc
Subject: Re: How to measure battery capacity?
Date: Fri, 23 Jan 2009 14:36:58 -0500
Message-ID: <63kin4dminbvp7mufa8fcm9ev3f3ejbmi8@4ax.com>
References: <3F3FFF00.6EB8E115@NoDirectMail.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.19.113.131
X-Trace: sv3-WbLShxMT/RIit47LX0XzBMcOpK2t7TZGs/V5+Nhbzq4Xklk59G/
bVLgFpFaVMr4zLdW3PyPH+lIEDgh!TzhZK1/vBZnM83p1IED3o13juisIhLKuSLRvE5wR/
usCpTbDQNnRnuUSqGl+U+38nrAKYQEnh0sV!amF4
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com alt.radio.amateur:98 alt.ham-radio:766
rec.radio.amateur.homebrew:1802 rec.radio.amateur.policy:21318
rec.radio.amateur.misc:3065

On Sun, 17 Aug 2003 18:17:36 -0400, "Bruce W.1" <bw@NoDirectMail.com> wrote:

>I'm trying to find a way to measure the capacity of single -- mainly AA
>-- batteries. Some of my battery packs don't last as long as they
>should because of mismatches in cell capacity.
>
>I've got a good assortment of electronic equipment, variable power
>supplies, high power resistors, etc. I've even got a Maha MH-C777PLUS
>charger/discharger. But this doesn't let you do single cells.
>
>I can come up with some -- not so great -- ways to measure capacity,
>like discharging thru a resistor while monitoring voltage. This would
>allow me to at least match batteries somewhat but not really measure
>true capacity. For true capacity I need a constant current device, and
>that's where I'm stumped.
>
>This could be electronic, if it's inexpensive and I can get the parts at
>Radio Shack. But I'm thinking more along the lines of a mechanical
>device to drain the battery in a constant current fashion. An electric
>motor would just slow down, so that wouln't work. What type of
>mechanical device pulls a constant current regardless of input voltage?
>
>Does anyone have any suggestions on how to do this?
>
>Thanks for your help.

From 7075460217606519947
X-Google-Thread: 108778,b8313cb81a65bf
X-Google-Thread: 10ed5f,b8313cb81a65bf
X-Google-Thread: fc2a5,b8313cb81a65bf
X-Google-Thread: 10bf43,55592315fa7518b6,start
X-Google-Thread: 107ada,55592315fa7518b6,start
X-Google-Attributes: gid108778,gid10ed5f,gidfc2a5,gid10bf43,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.got.net!news.got.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 23 Jan 2009 13:31:29 -0600
From: dloydlavies@gmail.com
Newsgroups: rec.radio.amateur,alt.radio.amateur,alt.ham-radio,rec.ham-radio,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.amateur.misc
Subject: Re: Battery matching solution?
Date: Fri, 23 Jan 2009 14:36:58 -0500
Message-ID: <k3kin4dqtedltd3qq4afr19qtk3pdi1j4j@4ax.com>
References: <3F4051E2.64CD6570@NoDirectMail.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

```
Lines: 27
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.19.113.131
X-Trace: sv3-
VFql9MeCB3qzOILdR2zZ1JQF2dXWwAgf6UouOqRqC84SGLSIbuBSIkEW5xejtsV1ilvoDKgMhpFvFIz!
eMgBDpERyTFQKTZr3T2423QbxllvfW+Aq4CIWm3Sz/VzNTOH1NxbefAvmZLnjmp4jdQzIS5ZjWXj!7Ztm
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com alt.radio.amateur:99 alt.ham-radio:767
rec.radio.amateur.homebrew:1803 rec.radio.amateur.policy:21319
rec.radio.amateur.misc:3066

On Mon, 18 Aug 2003 00:11:14 -0400, "Bruce W.1" <bw@NoDirectMail.com>
wrote:

>Please see previous thread.
>
>I'm trying to match AA battery capacities so they can be used together
>in battery packs and I think created a low-tech way to do this.  I'd
>like to hear more informed opinions.
>
>This would apply to NiCads and NiMh but it should work with lithium-ions
>too.
>
>Take all your batteries of the same type and charge them all in parallel
>to the same voltage.  Then one at a time remove them from the float
>voltage and attach them to a fixed size resistor (say 6 ohms) for a
>fixed period of time (say 3 hours) then measure their voltage.  Well
>matched batteries should have similar voltages.
>
>Does this wash?
>
>The only thing I wonder about is the full charge state voltage.  Say I'm
>doing Ni-Cads which usually top-out around 1.65 volts (where they
>experience a voltage drop), and I set the float voltage for the bunch at
>1.5 volts.  Would the maximum voltage of each cell make a difference
>here?
>
>Thanks for your help.



From -2071083956205071269
X-Google-Thread: fc2a5,6bdb6006ae7c897b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 23 Jan 2009 17:15:01 -0600
From: carlos2007 <carlos2007.3c00476@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
```

```
Subject: Re: PA3AKE Project Update - DDS
Date: Fri, 23 Jan 2009 20:21:02 +0000
Message-ID: <carlos2007.3c00476@radiobanter.com>
Organization: RadioBanter.com
References:  <7841a382-aede-4f19-a1ca-c897e7647338@e1g2000pra.googlegroups.com>
Lines: 38
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-m25hKRTsX9l7/kCKTQb+EX0ToOJkYY43f2Jzi+YCa+aUerfimkCGX2vSgohJ/
0Sa54nYyeIwvCX/JCJ!FActH8eR/7P/
gSJk8J7Icc2FJPVPMDXOJeRirftms1ZW2P9ekGDmG2B1ptomALP/GuvzDO0JEqTl!JgMITISU
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Lines: 31
Xref: g2news2.google.com rec.radio.amateur.homebrew:2101


Gian, I7SWX;662006 Wrote:
> Hi All,
>
> First of all, Happy New Year 2009 and wish you the Best on your radio
> activities and projects.
>
> I like to inform you that our friend Martein, PA3AKE, has updated his
> web page on high performance analog front-end.
> See the below sub-directories where you will find a lot of information
> and measurements on DDS.
>
> http://www.xs4all.nl/~martein/pa3ake/hmode/index.html
>
> Local Oscillator:
>
> o Impact on Dynamic Range
> o  Design Choices
> &#8222;X    1GHz Reference Clock
> &#8222;X    AD9910 Prototype Board
> &#8222;X    AD9910 and SSB-Noise
> &#8222;X    AD9910 and PM-Noise
>
> o Sideband Noise Measurement
> &#8222;X    Reciprocal Mixing
> &#8222;X    Crystal Notch Filter
> &#8222;X    Quadrature Mixing
>
> Best 73 and enjoy the visit
>
> Gian
> I7SWX
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
sssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
```

--
carlos2007

```
From -8623947482820658039
X-Google-Thread: fc2a5,9fc6201b92c6c1e8,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2.glorb.com!
feeder.erje.net!news.motzarella.org!motzarella.org!news.motzarella.org!not-for-
mail
From: "Bob" <someone@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: seeking "airdux" coil
Date: Sat, 24 Jan 2009 14:45:03 -0500
Organization: A noiseless patient Spider
Lines: 14
Message-ID: <glfr41$d75$1@news.motzarella.org>
X-Trace: news.eternal-september.org U2FsdGVkX187+osttjNOI8pqe8FdxByM6rymHuXM/
qaQfVMb+hyyqLUfdYhkB+ysIr+ApVu2uyA5BHju91CwxpFlUfeeiTrGvYoTkVWVplzBYvtO8TC75RMnohq
PI1e8SRXIEubzJCA=
X-Complaints-To: Please send complaints to abuse@motzarella.org with full headers
NNTP-Posting-Date: Sat, 24 Jan 2009 19:45:05 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5508
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.5508
X-Auth-Sender: U2FsdGVkX19rk38ByUH0Jnao/+TFlZmQFm+wGG9APcI=
Cancel-Lock: sha1:dGZORNWN27Ck6kb1Pai37YfGF4s=
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.homebrew:2104
```

anybody have any airdux (or similar) coil stock they wish to part with (cheap)?
Looking for something #16 wire, about 2" diameter, maybe 3" long. Needs to be about 10 turns per inch.
Actually, if is is 2" diameter and 10 TPI, I need a 2" chunk for the 13-ish uH needed.
It's for a 6146 homebrew transmitter final amp.
tnx,
Bob
kb8tl at yahoo dot com

```
From -5978181953401187695
```

X-Google-Thread: fc2a5,b8313cb81a65bf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <3F4051E2.64CD6570@NoDirectMail.com>
<k3kin4dqtedltd3qq4afr19qtk3pdi1j4j@4ax.com>
<9mamn41dl9c38q3gbblg2prd3kjqrjko2i@4ax.com>
Subject: Re: Battery matching solution?
Lines: 56
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <bzLel.1756$Aw2.1450@nwrddc02.gnilink.net>
Date: Sat, 24 Jan 2009 21:16:55 GMT
NNTP-Posting-Host: 71.110.225.89
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1232831815 71.110.225.89 (Sat, 24 Jan 2009 16:16:55 EST)
NNTP-Posting-Date: Sat, 24 Jan 2009 16:16:55 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:2105

> >>I'm trying to match AA battery capacities so they can be used together
> >>in battery packs and I think created a low-tech way to do this. I'd
> >>like to hear more informed opinions.
> >>
> >>This would apply to NiCads and NiMh but it should work with lithium-ions
> >>too.
> >>
> >>Take all your batteries of the same type and charge them all in parallel
> >>to the same voltage. Then one at a time remove them from the float
> >>voltage and attach them to a fixed size resistor (say 6 ohms) for a
> >>fixed period of time (say 3 hours) then measure their voltage. Well
> >>matched batteries should have similar voltages.
> >>
> >>Does this wash?
> >>
> >>The only thing I wonder about is the full charge state voltage. Say I'm
> >>doing Ni-Cads which usually top-out around 1.65 volts (where they
> >>experience a voltage drop), and I set the float voltage for the bunch at
> >>1.5 volts. Would the maximum voltage of each cell make a difference
> >>here?
> >>

> >>Thanks for your help.
>
> Under the parallel charging scenario you outline you should be
> charging your NiCds with a CURRENT appropriate for the total amount of
> capacity you have in parallel. I'd suggest the cells be reasonably
> well charged before paralleling them for a final finishing charge.
>
> The Li-Ion cells are the ones you need to charge to a specific (and
> safe) voltage.
>
> Your discharge regime sounds OK, but in addition to a discharge for a
> certain length of time I'd continue that to the desired cutoff voltage
> for the cell in question and record the time required to reach that
> point. That will require you to be there and be more vigilant, but it
> will give a far better figure for cell comparison.
>
> You might want to plot voltage vs time at rather close intervals on at
> least one cell just to see how voltage changes over time. Do that and
> you'll probably see why I recommend measuring the time to a specific
> cutoff voltage.

Lithium Ions are odd.

For the others, It is best to stay with same model cells. They are not created equal. It is pretty easy to just make the pack and do your testing with the MAHA, then throw out the cells that fall down first. I have the Radio Shack/MAHA and sometimes it doesn't detect properly until the pack gets going.

I have a handful of surplus NiMh 1ah AA cells that I constantly rotate and they get used in cameras, radios, flashlights and anything else. They were tab type that I pulled the tabs off and soldered a blob of Silver solder on the plus to make them fit in holders. Been using them for at least 5 years now.

From -9014182812053115148
X-Google-Thread: fc2a5,6bdb6006ae7c897b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,BIG5
Path: g2news1.google.com!postnews.google.com!q18g2000vbn.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PA3AKE Project Update - DDS
Date: Sat, 24 Jan 2009 13:38:39 -0800 (PST)
Organization: http://groups.google.com
Lines: 43
Message-ID: <f630ab16-e843-4bb5-830e-9aa852eb8a99@q18g2000vbn.googlegroups.com>
References: <7841a382-aede-4f19-a1ca-c897e7647338@e1g2000pra.googlegroups.com>
NNTP-Posting-Host: 76.226.137.177
Mime-Version: 1.0

```
Content-Type: text/plain; charset=Big5
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1232833119 14613 127.0.0.1 (24 Jan 2009 21:38:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 24 Jan 2009 21:38:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q18g2000vbn.googlegroups.com; posting-host=76.226.137.177;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1809

On Jan 2, 11:46 am, "Gian, I7SWX" <i7...@yahoo.com> wrote:
> Hi All,
>
> First of all, Happy New Year 2009 and wish you the Best on your radio
> activities and projects.
>
> I like to inform you that our friend Martein, PA3AKE, has updated his
> web page on high performance analog front-end.
> See the below sub-directories where you will find a lot of information
> and measurements on DDS.
>
> http://www.xs4all.nl/~martein/pa3ake/hmode/index.html
>
> Local Oscillator:
>
> o Impact on Dynamic Range
> o       Design Choices
> =84X     1GHz Reference Clock
> =84X     AD9910 Prototype Board
> =84X     AD9910 and SSB-Noise
> =84X     AD9910 and PM-Noise
>
> o Sideband Noise Measurement
> =84X     Reciprocal Mixing
> =84X     Crystal Notch Filter
> =84X     Quadrature Mixing
>
> Best 73 and enjoy the visit
>
> Gian
> I7SWX

Hey OM

One of the instructions for an FM transmitter using the AD chip is:
wait for interrupt and loop forever, this thing will be rocking at 1
giga samples per second.

Think I could put one of these chips in my yl?
```

73 OM
de n8zu

From -4417589556434097771
X-Google-Thread: fc2a5,464c4e18e63ae625
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 24 Jan 2009 20:00:59 -0600
Date: Sat, 24 Jan 2009 21:00:25 -0500
From: highlandham <rfburns@nospam.com>
User-Agent: Icedove 1.5.0.9 (X11/20061220)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UHF (70cm) PA
References: <6721ab92-e477-4bb7-96fa-5d6b176eb3c9@r41g2000prr.googlegroups.com>
<77d3aaec-50e2-40fc-ab88-d864ffdf8555@y1g2000pra.googlegroups.com>
<6tij81Fb5r7cU1@mid.individual.net>
<pan.2009.01.19.09.17.52.302313@localhost.localdomain>
In-Reply-To: <pan.2009.01.19.09.17.52.302313@localhost.localdomain>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <r_mdnUuZRaRGWubUnZ2dnUVZ8vednZ2d@pipex.net>
Lines: 12
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.107.29.68
X-Trace: sv3-tDGecREs/AnOxJKDnIITvsOfcgTYZBKlRO4+qSDD5DhSMFG1BzuLLYFOMPL1V/
IbJmzBiUu6Gp66o3b!D1ST4XzzXVYdKgNnQzIJqwMNRXABWAXJ7+nv3Ndcant8YmJFNcX/
kYsN8lIPfmt33oOyVwW+H+L2!+KjrAsqJbe5ysf9Efqk6Ni3C
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1810

geek wrote:
> On Mon, 19 Jan 2009 06:00:45 +0000, Bob wrote:
>
> <snip>
>
>> If I was designing a UHF PA, I'd choose FETs these days!
>
> Alas, if automobiles used 48V instead of 12 ;-)
================
Switch Mode converter 12V ------> 48 V

Frank   KN6WH / GM0CSZ

From 7789510749956625639
X-Google-Thread: fc2a5,9fc6201b92c6c1e8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-
me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe09.iad.POSTED!
7564ea0f!not-for-mail
From: "NoSPAM" <unknown@nospam.org>
Newsgroups: rec.radio.amateur.homebrew
Followup-To: rec.radio.amateur.homebrew
References: <glfr41$d75$1@news.motzarella.org>
In-Reply-To: <glfr41$d75$1@news.motzarella.org>
Subject: Re: seeking "airdux" coil
Lines: 32
MIME-Version: 1.0
Content-Type: text/plain;
 format=flowed;
 charset="Windows-1252";
 reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
Message-ID: <bNPel.13972$k57.13909@newsfe09.iad>
NNTP-Posting-Host: jnibogphckphemgkkgknfdakiclijcld
X-Complaints-To: abuse@charter.net
X-Trace:
gbibggbfamgkfdiomcjobjcmnmlfmhhaackpbnigiakejijmjnibogphckphemgkfllejjhdijjjcbpjfn
bofapapohnehejlbfbcegppdjeklejjokkpehkkfmickjachpfalgfbjoakmml
NNTP-Posting-Date: Sun, 25 Jan 2009 02:04:55 UTC
Date: Sat, 24 Jan 2009 21:04:46 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:2108

"Bob" <someone@nospam.com> wrote in message
news:glfr41$d75$1@news.motzarella.org...
> anybody have any airdux (or similar) coil stock they wish to part with
> (cheap)?
> Looking for something #16 wire, about 2" diameter, maybe 3" long. Needs
> to be about 10 turns per inch.
> Actually, if is is 2" diameter and 10 TPI, I need a 2" chunk for the
> 13-ish uH needed.
> It's for a 6146 homebrew transmitter final amp.
> tnx,
> Bob
> kb8tl at yahoo dot com

Have you ever thought about winding your own? Find something of the right
diameter - PVC pipe, wood dowel, cardboard roll, etc. Wrap it with waxed
paper, then wind the wire on it tightly holding the ends down with tape.

Mix up some epoxy (24-hour cure will be stronger and more flexible, but 5-minute epoxy will also work). Apply the mixed epoxy to your coil in lines about 1/4 inch wide. Use at least six lines to make a sturdy coil. Let the epoxy cure for several hours to overnight depending on the epoxy chosen. Carefully withdraw the form and unroll the waxed paper from the inside of the coil. It's really simple to do and you have a real homebrew rig.

Make sure you use bare copper or tinned copper wire if you have to tap the coil. If you use bare copper, do not use polyester resin instead of the epoxy as it will not cure properly. I won't say why, but instead leave this as a mystery for the readers of this newsgroup.

73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz84@charter.net [transpose the digits to reply]

```
From -7234173371332524875
X-Google-Thread: fc2a5,9b0da7afd6d8439c,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!j39g2000yqn.googlegroups.com!not-for-mail
From: joeturn <joeturn2000@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: How about this one Unk??
Date: Sat, 24 Jan 2009 18:06:44 -0800 (PST)
Organization: http://groups.google.com
Lines: 1
Message-ID: <c3e64747-e692-42f4-a6d1-7e1355982578@j39g2000yqn.googlegroups.com>
NNTP-Posting-Host: 24.95.252.127
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1232849204 512 127.0.0.1 (25 Jan 2009 02:06:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 25 Jan 2009 02:06:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j39g2000yqn.googlegroups.com; posting-host=24.95.252.127;
	posting-account=TOBUfggAAAC5Ow7sgid-1fbF1N9O6T1h
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
	1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1812
```

http://groups.google.com/group/rec.gambling.poker/browse_thread/thread/ba9da4f2e926e620#

```
From -7783336135388528587
X-Google-Thread: fc2a5,fc94239d11d5edfe
X-Google-Thread: 10bf43,b4e1387c9243c5aa
```

```
X-Google-Thread: 107ada,b4e1387c9243c5aa
X-Google-Attributes: gidfc2a5,gid10bf43,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 24 Jan 2009 20:38:27 -0600
Date: Sat, 24 Jan 2009 21:37:52 -0500
From: highlandham <rfburns@nospam.com>
User-Agent: Icedove 1.5.0.9 (X11/20061220)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur,alt.radio.amateur,alt.ham-radio,rec.ham-
radio,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.amateur.misc
Subject: Re: How to measure battery capacity?
References: <3F3FFF00.6EB8E115@NoDirectMail.com>
<63kin4dminbvp7mufa8fcm9ev3f3ejbmi8@4ax.com>
In-Reply-To: <63kin4dminbvp7mufa8fcm9ev3f3ejbmi8@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <k_6dnXd-5cU-TebUnZ2dnUVZ8oGWnZ2d@pipex.net>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.107.29.68
X-Trace: sv3-9wcJA0/cjnrqvYVelkNz0onsbMkuCF5+nK14ynAPl3/
UD93c2wq4GDH9f3XrTE0mkp2Z2d624S9fvnQ!
+b145Z8osp62mNP85rxtETwHK0mzT1KIpc2uBcOfU+C4Iwrz4i02ZYklLlGrYxjZj/tLd9mIQ3Xc!
AcBJbjdzuqVl6rphJONdeP2i
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com alt.radio.amateur:100 alt.ham-radio:814
rec.radio.amateur.homebrew:1813 rec.radio.amateur.policy:21376
rec.radio.amateur.misc:3122

dloydlavies@gmail.com wrote:
> On Sun, 17 Aug 2003 18:17:36 -0400, "Bruce W.1" <bw@NoDirectMail.com>
> wrote:
>
>> I'm trying to find a way to measure the capacity of single -- mainly AA
>> -- batteries.  Some of my battery packs don't last as long as they
>> should because of mismatches in cell capacity.
>>
>> I've got a good assortment of electronic equipment, variable power
>> supplies, high power resistors, etc.  I've even got a Maha MH-C777PLUS
>> charger/discharger.  But this doesn't let you do single cells.
=======================================
Are you sure ?  A Maha MH-C777 I have does single  1.2 V cells.

Frank   KN6WH / GM0CSZ
```

```
From 6361365131803053171
X-Google-Thread: fc2a5,9fc6201b92c6c1e8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news2
From: Bill M <radioexray@geemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking "airdux" coil
Date: Sat, 24 Jan 2009 22:44:06 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 31
Message-ID: <glgjls02990@news2.newsguy.com>
References: <glfr41$d75$1@news.motzarella.org>
<bNPel.13972$k57.13909@newsfe09.iad>
NNTP-Posting-Host: p34d1bfbfff00000039aa3817ddd3724a422f6b3c5c42ed17.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <bNPel.13972$k57.13909@newsfe09.iad>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1814

NoSPAM wrote:
> "Bob" <someone@nospam.com> wrote in message
> news:glfr41$d75$1@news.motzarella.org...
>> anybody have any airdux (or similar) coil stock they wish to part with
>> (cheap)?

>
> Have you ever thought about winding your own?  Find something of the
> right diameter - PVC pipe, wood dowel, cardboard roll, etc.  Wrap it
> with waxed paper, then wind the wire on it tightly holding the ends down
> with tape. Mix up some epoxy (24-hour cure will be stronger and more
> flexible, but 5-minute epoxy will also work).  Apply the mixed epoxy to
> your coil in lines about 1/4 inch wide.  Use at least six lines to make
> a sturdy coil. Let the epoxy cure for several hours to overnight
> depending on the epoxy chosen.  Carefully withdraw the form and unroll
> the waxed paper from the inside of the coil.  It's really simple to do
> and you have a real homebrew rig.

Thats my plan.  I cannot afford the real air/mini-dux. :(

http://www.sparkbench.com/homebrew/grebe/rear.jpg

Forget the epoxy and use Duco Cement.

"polyester resin instead of the epoxy as it will not cure properly.  I
won't say why, but instead leave this as a mystery for the readers of
this newsgroup."
```

For me the Duco Cement has always held better than epoxy.

-Bill

```
From 1054523491166543797
X-Google-Thread: fc2a5,9fc6201b92c6c1e8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-
me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe19.iad.POSTED!
7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <glfr41$d75$1@news.motzarella.org>
<bNPel.13972$k57.13909@newsfe09.iad> <glgjls02990@news2.newsguy.com>
Subject: Re: seeking "airdux" coil
Lines: 14
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <XzQel.209641$2w3.201491@newsfe19.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe19.iad 1232852343 68.229.77.6 (Sun, 25 Jan 2009 02:59:03 UTC)
NNTP-Posting-Date: Sun, 25 Jan 2009 02:59:03 UTC
Organization: Cox
Date: Sat, 24 Jan 2009 21:58:50 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:2112
```

I'm not sure if you thought of this, but there are a few guys who do nothing but part out Heathkits and sell the parts on eBay. Right now there's a DX-40 PA coil going for a few bucks. I've seen tons of AirDux styles (such as the DX-40), and also fiberglas and ceramic tanks from later Heathkits. I picked up a PA tank (ceramic form) for a TX project I'm planning. Often the PA tank switch is included, along with the standoff insulators. Worth a shot if nothing pans out here.

Pete k1zjh

```
From 7963952618187807080
X-Google-Thread: 10ed5f,fc94239d11d5edfe
X-Google-Thread: fc2a5,fc94239d11d5edfe
X-Google-Thread: 10bf43,b4e1387c9243c5aa
```

```
X-Google-Thread: 107ada,b4e1387c9243c5aa
X-Google-Attributes:
gid10ed5f,gidfc2a5,gid10bf43,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!r34g2000vbp.googlegroups.com!not-for-
mail
From: dloydlavies@hotmail.com
Newsgroups: alt.ham-
radio,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.amateur.misc
Subject: Re: How to measure battery capacity?
Date: Sun, 25 Jan 2009 03:58:24 -0800 (PST)
Organization: http://groups.google.com
Lines: 48
Message-ID: <00d6348d-9524-427b-9ed8-990cd2374fae@r34g2000vbp.googlegroups.com>
References: <3F3FFF00.6EB8E115@NoDirectMail.com>
<63kin4dminbvp7mufa8fcm9ev3f3ejbmi8@4ax.com>
     <k_6dnXd-5cU-TebUnZ2dnUVZ8oGWnZ2d@pipex.net>
NNTP-Posting-Host: 64.12.117.134
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1232884705 32297 127.0.0.1 (25 Jan 2009 11:58:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 25 Jan 2009 11:58:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r34g2000vbp.googlegroups.com; posting-host=64.12.117.134;
     posting-account=LlKlpQoAAAACKApcMghEg1tHuqFnsbsX
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.1; AOLBuild
     4334.5003; Windows NT 5.1; SV1; .NET CLR 1.0.3705; .NET CLR 1.1.4322; Media
     Center PC 3.1; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s ]), HTTP/1.0
     spider-mtc-th07.proxy.aol.com[400C70E7] (Prism/1.2.1), HTTP/1.1
     cache-mtc-ag06.proxy.aol.com[400C7586] (Traffic-Server/6.1.5 [uScM])
Xref: g2news2.google.com alt.ham-radio:958 rec.radio.amateur.homebrew:2113
rec.radio.amateur.policy:24442 rec.radio.amateur.misc:3380

On Jan 24, 9:37=EF=BF=BDpm, highlandham <rfbu...@nospam.com> wrote:
> dloydlav...@gmail.com wrote:
> > On Sun, 17 Aug 2003 18:17:36 -0400, "Bruce W.1" <b...@NoDirectMail.com>
> > wrote:
>
> >> I'm trying to find a way to measure the capacity of single -- mainly A=
A
> >> -- batteries. =EF=BF=BDSome of my battery packs don't last as long as =
they
> >> should because of mismatches in cell capacity.
>
> >> I've got a good assortment of electronic equipment, variable power
> >> supplies, high power resistors, etc. =EF=BF=BDI've even got a Maha MH-=
C777PLUS
> >> charger/discharger. =EF=BF=BDBut this doesn't let you do single cells.
>
```

> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
> Are you sure ? =EF=BF=BDA Maha MH-C777 I have does single =EF=BF=BD1.2 V =
cells.
>
> Frank =EF=BF=BD KN6WH / GM0CSZ

Frank, don't respond to dloydlavies@gmail.com, this address is false
and is not an active address, this person is actually Mark Morgan
KB9RQZ, who is flooding/disrupting usenet as usual, as you can see the
original post is from 2003.

Feel free to report Mr. Morgan to abuse@giganews.com, and to Google
Groups

and to Google citing his other addresses
kb9rqz@aprs.com
kb9rqz_ars@hotmail.com
kb9rqz@yahoo.com
konstans@hotmail.com
kb9rqz__ars@hotmail.com
a_old_friends@yahoo.com
kb9rqz___ars@hotmail.com
kb9rqz@hotmail.com
upperpenarmyguy@yahoo.com
kb9rqz-ars@hotmail.com
kb9rqz_ars@yahoo.com
kb9rqz@markmorgan.com
kb9rqz@markmorgan.net
kb9rqz@amsat.org
kb9rqz--ars@hotmail.com
kb9rqz-MCM@hotmail.com

From 8553118092277559643
X-Google-Thread: 10ed5f,fc94239d11d5edfe
X-Google-Thread: fc2a5,fc94239d11d5edfe
X-Google-Thread: 10bf43,b4e1387c9243c5aa
X-Google-Thread: 107ada,b4e1387c9243c5aa
X-Google-Attributes:
gid10ed5f,gidfc2a5,gid10bf43,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!t3g2000yqa.googlegroups.com!not-for-mail
From: dloydlavies@hotmail.com
Newsgroups: alt.ham-radio,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.amateur.misc
Subject: Re: How to measure battery capacity?
Date: Sun, 25 Jan 2009 04:06:09 -0800 (PST)
Organization: http://groups.google.com
Lines: 58
Message-ID: <37a4eb73-cb40-4861-aae5-f02931de0b30@t3g2000yqa.googlegroups.com>
References: <3F3FFF00.6EB8E115@NoDirectMail.com>

```
<63kin4dminbvp7mufa8fcm9ev3f3ejbmi8@4ax.com>
     <k_6dnXd-5cU-TebUnZ2dnUVZ8oGWnZ2d@pipex.net>
<00d6348d-9524-427b-9ed8-990cd2374fae@r34g2000vbp.googlegroups.com>
NNTP-Posting-Host: 64.12.117.134
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1232885169 15663 127.0.0.1 (25 Jan 2009 12:06:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 25 Jan 2009 12:06:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t3g2000yqa.googlegroups.com; posting-host=64.12.117.134;
     posting-account=LlKlpQoAAAACKApcMghEg1tHuqFnsbsX
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.1; AOLBuild
     4334.5003; Windows NT 5.1; SV1; .NET CLR 1.0.3705; .NET CLR 1.1.4322; Media
     Center PC 3.1; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-mtc-th07.proxy.aol.com[400C70E7] (Prism/1.2.1), HTTP/1.1
     cache-mtc-ag06.proxy.aol.com[400C7586] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com alt.ham-radio:816 rec.radio.amateur.homebrew:1817
rec.radio.amateur.policy:21378 rec.radio.amateur.misc:3126

On Jan 25, 6:58=EF=BF=BDam, dloydlav...@hotmail.com wrote:
> On Jan 24, 9:37 pm, highlandham <rfbu...@nospam.com> wrote:
>
>
>
>
>
> > dloydlav...@gmail.com wrote:
> > > On Sun, 17 Aug 2003 18:17:36 -0400, "Bruce W.1" <b...@NoDirectMail.co=
m>
> > > wrote:
>
> > >> I'm trying to find a way to measure the capacity of single -- mainly=
 AA
> > >> -- batteries. Some of my battery packs don't last as long as they
> > >> should because of mismatches in cell capacity.
>
> > >> I've got a good assortment of electronic equipment, variable power
> > >> supplies, high power resistors, etc. I've even got a Maha MH-C777PLU=
S
> > >> charger/discharger. But this doesn't let you do single cells.
>
> > =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
> > Are you sure ? A Maha MH-C777 I have does single 1.2 V cells.
>
> > Frank KN6WH / GM0CSZ
>
> Frank, don't respond to dloydlav...@gmail.com, this address is false
> and is not an active address, this person is actually Mark Morgan
```

> KB9RQZ, who is flooding/disrupting usenet as usual, as you can see the
> original post is from 2003.
>
> Feel free to report Mr. Morgan to ab...@giganews.com, and to Google
> Groups
>
> and to Google citing his other addresses
> kb9...@aprs.com
> kb9rqz_...@hotmail.com
> kb9...@yahoo.com
> konst...@hotmail.com
> kb9rqz__...@hotmail.com
> a_old_frie...@yahoo.com
> kb9rqz___...@hotmail.com
> kb9...@hotmail.com
> upperpenarmy...@yahoo.com
> kb9rqz-...@hotmail.com
> kb9rqz_...@yahoo.com
> kb9...@markmorgan.com
> kb9...@markmorgan.net
> kb9...@amsat.org
> kb9rqz--...@hotmail.com
> kb9rqz-...@hotmail.com

and don't forget to add Mark@kb9rqz.org
>
> - Show quoted text -

```
From -1973152436496001638
X-Google-Thread: fc2a5,9fc6201b92c6c1e8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!f40g2000pri.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking "airdux" coil
Date: Sun, 25 Jan 2009 05:55:40 -0800 (PST)
Organization: http://groups.google.com
Lines: 32
Message-ID: <8d00d6f2-f0a1-449d-b8b9-d0836880ffe9@f40g2000pri.googlegroups.com>
References: <glfr41$d75$1@news.motzarella.org>
<bNPel.13972$k57.13909@newsfe09.iad>
     <glgjls02990@news2.newsguy.com> <XzQel.209641$2w3.201491@newsfe19.iad>
NNTP-Posting-Host: 76.226.137.177
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1232891740 21958 127.0.0.1 (25 Jan 2009 13:55:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 25 Jan 2009 13:55:40 +0000 (UTC)
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Complaints-To: groups-abuse@google.com
Injection-Info: f40g2000pri.googlegroups.com; posting-host=76.226.137.177;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.0.5)
     Gecko/2008121622 Ubuntu/8.04 (hardy) Firefox/3.0.5,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2115

On Jan 24, 9:58=A0pm, "Tio Pedro" <radioconnect...@cox.net> wrote:
> I'm not sure if you thought of this, but there are
> a few guys who do nothing but part out Heathkits
> and sell the parts on eBay. =A0Right now there's a
> DX-40 PA coil going for a few bucks. I've seen
> tons of AirDux styles (such as the DX-40), and
> also fiberglas and ceramic tanks from later
> Heathkits. I picked up a PA tank (ceramic form)
> for a TX project I'm planning. Often the PA
> tank switch is included, along with the standoff
> insulators. Worth a shot if nothing pans out here.
>
> Pete k1zjh

Hey OM

I don't know about that, I bought an airdux coil off of ebay came
with the catalog spec sheet for airdux coils
The guy listed it as a 100 watt rated coil turned out to be a 1000
watt coil verified by the spec sheet that came with it  Although I'll
say this nobody else bid on it. And sometimes they use other ebayers
pictures and tell you yup what you see is what you get. And the
picture isn't a picture of the item.

Personally I would roll my own. The trick that not to many people know
about epoxy is: heat it up first in a microwave oven, so hot that you
can't touch it. Then mix it.
I roll up a newspaper, in my case junk mail advertizing  flyers, for
the coil form, you can get any diameter you want this way.

Good luck and 73 OM
de n8zu


From 6606882045041l7916
X-Google-Thread: fc2a5,9fc6201b92c6c1e8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe12.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <glfr41$d75$1@news.motzarella.org>
<bNPel.13972$k57.13909@newsfe09.iad> <glgjls02990@news2.newsguy.com>
```

<XzQel.209641$2w3.201491@newsfe19.iad> <8d00d6f2-f0a1-449d-b8b9-d0836880ffe9@f40g2000pri.googlegroups.com>
Subject: Re: seeking "airdux" coil
Lines: 41
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <Vc%el.149558$H12.23013@newsfe12.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe12.iad 1232895925 68.229.77.6 (Sun, 25 Jan 2009 15:05:25 UTC)
NNTP-Posting-Date: Sun, 25 Jan 2009 15:05:25 UTC
Organization: Cox
Date: Sun, 25 Jan 2009 10:05:09 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1819

"raypsi" <RBorowiak@gmail.com> wrote in message
news:8d00d6f2-f0a1-449d-b8b9-d0836880ffe9@f40g2000pri.googlegroups.com...
On Jan 24, 9:58 pm, "Tio Pedro" <radioconnect...@cox.net> wrote:
> I'm not sure if you thought of this, but there are
> a few guys who do nothing but part out Heathkits
> and sell the parts on eBay. Right now there's a
> DX-40 PA coil going for a few bucks. I've seen
> tons of AirDux styles (such as the DX-40), and
> also fiberglas and ceramic tanks from later
> Heathkits. I picked up a PA tank (ceramic form)
> for a TX project I'm planning. Often the PA
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> insulators. Worth a shot if nothing pans out here.
>
> Pete k1zjh

Hey OM

I don't know about that, I bought an airdux coil off of ebay came
with the catalog spec sheet for airdux coils
The guy listed it as a 100 watt rated coil turned out to be a 1000
watt coil verified by the spec sheet that came with it Although I'll
say this nobody else bid on it. And sometimes they use other ebayers
pictures and tell you yup what you see is what you get. And the
picture isn't a picture of the item.
Good luck and 73 OM
de n8zu

You misread what I said. My advice was to look for a PA
tank that was salvaged from a DX-40, DX-60, HW-101, etc.
Not NOS AirDux stock. Unfortunately there seems to be a
lot of folks chopping these old rigs up for parts and selling
them off piece meal. The early DX series used AirDux
like coils, and they are already tapped for the five original

HF bands. There isn't a big market for them so they
sell cheap.

Pete

```
From -6244327846779929 91
X-Google-Thread: fc2a5,9fc6201b92c6c1e8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news2.glorb.com!news-
out.octanews.net!indigo.octanews.net!news-1.mpls.iphouse.net.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking "airdux" coil
From: Bert Hyman <bert@iphouse.com>
References: <glfr41$d75$1@news.motzarella.org>
<bNPel.13972$k57.13909@newsfe09.iad> <glgjls02990@news2.newsguy.com>
Organization: Not that you'd notice
Message-ID: <Xns9B9E61059DB51VeebleFetzer@216.250.184.7>
User-Agent: Xnews/2006.08.24
Date: 25 Jan 2009 15:32:15 GMT
Lines: 19
NNTP-Posting-Date: 25 Jan 2009 09:32:15 CST
NNTP-Posting-Host: 333c5ad8.newsreader.iphouse.net
X-Trace:
DXC=HoRj0GIH`jc]_3IfkVB[VnUU[C:R=]MbjeHS>e[L>83`o[3hJW>R[1ic230oU7d71aX7@2h;nGb4mX
Q1F83N5Dbc
X-Complaints-To: abuse@iphouse.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:1820
```

In news:glgjls02990@news2.newsguy.com Bill M <radioexray@geemail.com>
wrote:

> I cannot afford the real air/mini-dux. :(

This thread prompted me to look at B&W's Web site.

The price of the real Airdux is breathtaking.

A single piece of the 1610TL (10" long, 2" diameter, 10tpi, 16 gauge
wire) that the OP is looking for is $100.

Even the lesser-rated 3027 Miniductor is a hefty $40.

http://www.bwantennas.com/coils/aduxlex.htm
http://www.bwantennas.com/coils/mini.htm

--
Bert Hyman   St. Paul, MN bert@iphouse.com

From 1805476805939179289
X-Google-Thread: fc2a5,9fc6201b92c6c1e8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
gnilink.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews1.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking "airdux" coil
References: <glfr41$d75$1@news.motzarella.org>
<bNPel.13972$k57.13909@newsfe09.iad> <glgjls02990@news2.newsguy.com>
<Xns9B9E61059DB51VeebleFetzer@216.250.184.7>
In-Reply-To: <Xns9B9E61059DB51VeebleFetzer@216.250.184.7>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 27
Message-ID: <GY%el.736$pq.138@bignews1.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
pcpocbcnbdmdhgfgdbdpiflmbcekedmfhojhikkbagflhcboblgdjkfggbiaopfnobbbcmckokoagpklnm
eaebmagaaibmcfochfhfhedkkjfjjfakngmmneimggmmdkomgcgeplalemeldgaoaggfblacphkafe
NNTP-Posting-Date: Sun, 25 Jan 2009 10:56:22 EST
Organization: BellSouth Internet Group
Date: Sun, 25 Jan 2009 11:03:33 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1821

Bert Hyman wrote:
> In news:glgjls02990@news2.newsguy.com Bill M <radioexray@geemail.com>
> wrote:
>
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>
> This thread prompted me to look at B&W's Web site.
>
> The price of the real Airdux is breathtaking.
>
> A single piece of the 1610TL (10" long, 2" diameter, 10tpi, 16 gauge
> wire) that the OP is looking for is $100.
>
> Even the lesser-rated 3027 Miniductor is a hefty $40.
>
> http://www.bwantennas.com/coils/aduxlex.htm
> http://www.bwantennas.com/coils/mini.htm
>

Even inflation doesn't account for those prices!
In 1967 I bought some mini-inductor stock for building a receiver
project from PE magazine. The #3016 mini-inductor was $1.03 and the
#3013 was $0.63 each. Today, they are listed on the website at $60 and

$20 each! Over a 50X increase in price! Inflation over some 40 years wasn't THAT bad (or gas would be over $15/gal today).

Note that the web site implies that they are no longer making the coils anymore, and that a 'special order' might be involved.

```
From 1875364387128579943
X-Google-Thread: 10ed5f,fc94239d11d5edfe
X-Google-Thread: fc2a5,fc94239d11d5edfe
X-Google-Thread: 10bf43,b4e1387c9243c5aa
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.got.net!news.got.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 25 Jan 2009 19:16:32 -0600
From: dloydlavies@hotmail.com
Newsgroups: rec.radio.amateur,alt.radio.amateur,alt.ham-radio,rec.ham-
radio,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.amateur.misc
Subject: Re: How to measure battery capacity?
Date: Sun, 25 Jan 2009 20:22:40 -0500
Message-ID: <u24qn4t2scdens91tv34ne44kfp6h0v38j@4ax.com>
References: <3F3FFF00.6EB8E115@NoDirectMail.com>
<63kin4dminbvp7mufa8fcm9ev3f3ejbmi8@4ax.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 28
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.19.113.131
X-Trace: sv3-47878IqoalheBv3S0kPozKU9fqPhSZjn6LE7AYNs/
35hDXJyGBo+85uZyZuJ7IiSW9oOTaBBlpGX/zl!
BIxa3Qi4X7YJqBk4qQ55LGqWjlLbJxhy6Sr0m2KqIdlSkFaa+/jGB/v5TqBzuDk+Qu37fLrWodcw!AyjH
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com alt.radio.amateur:113 alt.ham-radio:895
rec.radio.amateur.homebrew:1822 rec.radio.amateur.policy:21485
rec.radio.amateur.misc:3211
```

On Fri, 23 Jan 2009 14:36:58 -0500, dloydlavies@gmail.com wrote:

>On Sun, 17 Aug 2003 18:17:36 -0400, "Bruce W.1" <bw@NoDirectMail.com>
>wrote:
>
>>I'm trying to find a way to measure the capacity of single -- mainly AA
>>-- batteries. Some of my battery packs don't last as long as they
>>should because of mismatches in cell capacity.

>>
>>I've got a good assortment of electronic equipment, variable power
>>supplies, high power resistors, etc. I've even got a Maha MH-C777PLUS
>>charger/discharger. But this doesn't let you do single cells.
>>
>>I can come up with some -- not so great -- ways to measure capacity,
>>like discharging thru a resistor while monitoring voltage. This would
>>allow me to at least match batteries somewhat but not really measure
>>true capacity. For true capacity I need a constant current device, and
>>that's where I'm stumped.
>>
>>This could be electronic, if it's inexpensive and I can get the parts at
>>Radio Shack. But I'm thinking more along the lines of a mechanical
>>device to drain the battery in a constant current fashion. An electric
>>motor would just slow down, so that wouln't work. What type of
>>mechanical device pulls a constant current regardless of input voltage?
>>
>>Does anyone have any suggestions on how to do this?
>>
>>Thanks for your help.

From -3627421424179367606
X-Google-Thread: fc2a5,b8313cb81a65bf
X-Google-Thread: 10bf43,55592315fa7518b6
X-Google-Thread: 107ada,55592315fa7518b6
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.got.net!news.got.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 25 Jan 2009 19:17:01 -0600
From: dloydlavies@hotmail.com
Newsgroups: rec.radio.amateur,alt.radio.amateur,alt.ham-radio,rec.ham-radio,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.amateur.misc
Subject: Re: Battery matching solution?
Date: Sun, 25 Jan 2009 20:22:57 -0500
Message-ID: <g34qn4to0dek1bd90f0k0ln3jcndtdfllp@4ax.com>
References: <3F4051E2.64CD6570@NoDirectMail.com>
<k3kin4dqtedltd3qq4afr19qtk3pdi1j4j@4ax.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 29
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NNTP-Posting-Host: 69.19.113.131
X-Trace: sv3-6Fq3ZZiLvHR0PmpyUQIT/Q3rZ3Z05yJlNLw8wZ7DLfbP6tVQJXmrplvArj43YIhy+DDcdpghTK4ZHh4!qZVmhZFCP9PWw22oP4FHT8l90IJw6Sx2bX9/+XW5puwdh3K5yq/4UC3HmjSJ+0XpmoEEVS1KDUn7!Qp9w
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly

```
X-Postfilter: 1.3.39
Xref: g2news1.google.com alt.radio.amateur:114 alt.ham-radio:900
rec.radio.amateur.homebrew:1823 rec.radio.amateur.policy:21490
rec.radio.amateur.misc:3216

On Fri, 23 Jan 2009 14:36:58 -0500, dloydlavies@gmail.com wrote:

>On Mon, 18 Aug 2003 00:11:14 -0400, "Bruce W.1" <bw@NoDirectMail.com>
>wrote:
>
>>Please see previous thread.
>>
>>I'm trying to match AA battery capacities so they can be used together
>>in battery packs and I think created a low-tech way to do this.  I'd
>>like to hear more informed opinions.
>>
>>This would apply to NiCads and NiMh but it should work with lithium-ions
>>too.
>>
>>Take all your batteries of the same type and charge them all in parallel
>>to the same voltage.  Then one at a time remove them from the float
>>voltage and attach them to a fixed size resistor (say 6 ohms) for a
>>fixed period of time (say 3 hours) then measure their voltage.  Well
>>matched batteries should have similar voltages.
>>
>>Does this wash?
>>
>>The only thing I wonder about is the full charge state voltage.  Say I'm
>>doing Ni-Cads which usually top-out around 1.65 volts (where they
>>experience a voltage drop), and I set the float voltage for the bunch at
>>1.5 volts.  Would the maximum voltage of each cell make a difference
>>here?
>>
>>Thanks for your help.


From -1776927081958716234
X-Google-Thread: fc2a5,9fc6201b92c6c1e8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 26 Jan 2009 07:12:11 -0600
From: "ReasonableMan" <ReasonableMen..com>
Newsgroups: rec.radio.amateur.homebrew
References: <glfr41$d75$1@news.motzarella.org>
<bNPel.13972$k57.13909@newsfe09.iad> <glgjls02990@news2.newsguy.com>
<Xns9B9E61059DB51VeebleFetzer@216.250.184.7>
<GY%el.736$pq.138@bignews1.bellsouth.net>
Subject: Re: seeking "airdux" coil
Date: Mon, 26 Jan 2009 07:12:12 -0600
X-Priority: 3
```

```
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <tdWdnZ9-X6E2K-DUnZ2dnUVZ_uKWnZ2d@giganews.com>
Lines: 34
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-9TVQkO4I/
QC0XVTDTAeaSceE3L7EN8kYXE3hWyAYXjZYjvX8VmwfCIkS9g8QnGy1VJr6H2QsMFlVS5b!
P0BnzL66Kr6p8Dt+MnT+wftM1lnu6QjX/5jU5oLBHrkBsgNNQFrxiLVaIFJNWq8kfwChCzOsqGo=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2121
```

SUPPLY AND DEMAND....
That is the only thing the really counts.......

"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:GY%el.736$pq.138@bignews1.bellsouth.net...

```
> Bert Hyman wrote:
>> In news:glgjls02990@news2.newsguy.com Bill M <radioexray@geemail.com>
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>>> I cannot afford the real air/mini-dux. :(
>>
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>> 1610TL (10" long, 2" diameter, 10tpi, 16 gauge
>> wire) that the OP is looking for is $100. Even the lesser-rated 3027
>> Miniductor is a hefty $40.
>>
>> http://www.bwantennas.com/coils/aduxlex.htm
>> http://www.bwantennas.com/coils/mini.htm
>>
> Even inflation doesn't account for those prices!
> In 1967 I bought some mini-inductor stock for building a receiver project
> from PE magazine.  The #3016 mini-inductor was $1.03 and the #3013 was
> $0.63 each.  Today, they are listed on the website at $60 and $20 each!
> Over a 50X increase in price!  Inflation over some 40 years wasn't THAT
> bad (or gas would be over $15/gal today).
>
> Note that the web site implies that they are no longer making the coils
> anymore, and that a 'special order' might be involved.
```

```
From 3200734400312223544
X-Google-Thread: fc2a5,9fc6201b92c6c1e8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!mzenier
From: mzenier@eskimo.com (Mark Zenier)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking "airdux" coil
Date: Sun, 25 Jan 2009 20:25:49 GMT
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 56
Message-ID: <glklst01mq@enews2.newsguy.com>
References: <glfr41$d75$1@news.motzarella.org>
<bNPel.13972$k57.13909@newsfe09.iad>
NNTP-Posting-Host:
p34d1bfbfff00000075d74a17a612d9d6714a05f946e87fc7e896643f5c8e55d6.newsdawg.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:2122
```

In article <bNPel.13972$k57.13909@newsfe09.iad>,
NoSPAM <unknown@nospam.org> wrote:

>"Bob" <someone@nospam.com> wrote in message
>news:glfr41$d75$1@news.motzarella.org...
>> anybody have any airdux (or similar) coil stock they wish to part with
>> (cheap)?
>> Looking for something #16 wire, about 2" diameter, maybe 3" long. Needs
>> to be about 10 turns per inch.
>> Actually, if is is 2" diameter and 10 TPI, I need a 2" chunk for the
>> 13-ish uH needed.
>> It's for a 6146 homebrew transmitter final amp.
>> tnx,
>> Bob
>> kb8tl at yahoo dot com
>
>Have you ever thought about winding your own? Find something of the right
>diameter - PVC pipe, wood dowel, cardboard roll, etc. Wrap it with waxed
>paper, then wind the wire on it tightly holding the ends down with tape.
>Mix up some epoxy (24-hour cure will be stronger and more flexible, but
>5-minute epoxy will also work). Apply the mixed epoxy to your coil in
>lines about 1/4 inch wide. Use at least six lines to make a sturdy coil.
>Let the epoxy cure for several hours to overnight depending on the epoxy
>chosen. Carefully withdraw the form and unroll the waxed paper from the
>inside of the coil. It's really simple to do and you have a real homebrew
>rig.
>
>Make sure you use bare copper or tinned copper wire if you have to tap the
>coil. If you use bare copper, do not use polyester resin instead of the
>epoxy as it will not cure properly. I won't say why, but instead leave
>this as a mystery for the readers of this newsgroup.

suggestions.

1) Fiberglass perf board is drilled on .1 centers so you can cut a piece down the middle of the holes, a bit of hacksaw work if needed, and use it as a comb spacer glued from the outside.

2) just cut several .2 inch strips of perf board with a row of holes in the middle, start at one end and feed a preformed slinky of the wire so that the strips space and support it.

2 is less work than 1, but it's real hard to get it nice looking.

3) Another way is to wind with a second wire used as an interleave, hot glue both wires and then pull out the second wire, (insulated which doesn't take the glue as well as the bare wire and stranded for flexability), from the inside after removed from the forming dowel. For transmitters, you'd probably need to treat the hot glue as a temporary scaffold and use a better glue for the final structure.

Mark Zenier mzenier@eskimo.com
Googleproofaddress(account:mzenier provider:eskimo domain:com)

From -8618510078163242497
X-Google-Thread: fc2a5,9fc6201b92c6c1e8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!z28g2000prd.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking "airdux" coil
Date: Mon, 26 Jan 2009 09:27:22 -0800 (PST)
Organization: http://groups.google.com
Lines: 30
Message-ID: <27debf34-8ef0-4b0e-8115-518dfd7bb397@z28g2000prd.googlegroups.com>
References: <glfr41$d75$1@news.motzarella.org>
<bNPel.13972$k57.13909@newsfe09.iad>
     <glgjls02990@news2.newsguy.com> <Xns9B9E61059DB51VeebleFetzer@216.250.184.7>
NNTP-Posting-Host: 155.178.5.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1232990843 14712 127.0.0.1 (26 Jan 2009 17:27:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 26 Jan 2009 17:27:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z28g2000prd.googlegroups.com; posting-host=155.178.5.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0

```
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2123

On Jan 25, 9:32=A0am, Bert Hyman <b...@iphouse.com> wrote:
> Innews:glgjls02990@news2.newsguy.comBill M <radioex...@geemail.com>
> wrote:
>
> > I cannot afford the real air/mini-dux. :(
>
> This thread prompted me to look at B&W's Web site.
>
> The price of the real Airdux is breathtaking.
>
> A single piece of the 1610TL (10" long, 2" diameter, 10tpi, 16 gauge
> wire) that the OP is looking for is $100.
>
> Even the lesser-rated 3027 Miniductor is a hefty $40.
>
> http://www.bwantennas.com/coils/aduxlex.htmhttp://www.bwantennas.com/coil=
s/mini.htm
>
> --
> Bert Hyman =A0 =A0 =A0St. Paul, MN =A0 =A0b...@iphouse.com

Getting set up to fabricate these coils may be a good garage business
for someone. I made some one time utilizing a metal dowel that already
had four groves spaced a 90 degress. I wrapped the wire around the
dowel and filled the grove with resin. This worked fairly decent. Im
sure that someone who already had some metal working tools could
fabricate similar setup or probably come up with something better to
set up an "as required" production line.

Jimmie


From 2802715867478573406
X-Google-Thread: fc2a5,b8313cb81a65bf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 26 Jan 2009 19:03:00 -0600
Date: Mon, 26 Jan 2009 17:02:58 -0800
From: highlandham <rfburns@nospam.sco>
User-Agent: Thunderbird 2.0.0.19 (Windows/20081209)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery matching solution?
References: <3F4051E2.64CD6570@NoDirectMail.com>
<k3kin4dqtedltd3qq4afr19qtk3pdi1j4j@4ax.com>
<9mamn41dl9c38q3gbblg2prd3kjqrjko2i@4ax.com>
```

```
<bzLel.1756$Aw2.1450@nwrddc02.gnilink.net>
In-Reply-To: <bzLel.1756$Aw2.1450@nwrddc02.gnilink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <BJqdnVDwcunZwOPUnZ2dnUVZ8tzinZ2d@pipex.net>
Lines: 64
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.107.29.68
X-Trace: sv3-
JoTiovUW4JHuaENoFgvu2Y0lvsvDBpohtHZzHUbl3g7uZc38ovc2AB7Af+G83GeKyK9Wi30eo6myoeW!
N8YOXj25/uSAc5+05afpGpgrQiZTblSbKF65j1vm5rc+zH/9R4ZBdgy3JH91IR+9DzYXh1VVfY0t!
ZTqJYsFT7wmP6eYzw7WKhl36
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2124

JB wrote:
>>>> I'm trying to match AA battery capacities so they can be used together
>>>> in battery packs and I think created a low-tech way to do this.  I'd
>>>> like to hear more informed opinions.
>>>>
>>>> This would apply to NiCads and NiMh but it should work with lithium-ions
>>>> too.
>>>>
>>>> Take all your batteries of the same type and charge them all in parallel
>>>> to the same voltage.  Then one at a time remove them from the float
>>>> voltage and attach them to a fixed size resistor (say 6 ohms) for a
>>>> fixed period of time (say 3 hours) then measure their voltage.  Well
>>>> matched batteries should have similar voltages.
>>>>
>>>> Does this wash?
>>>>
>>>> The only thing I wonder about is the full charge state voltage.  Say I'm
>>>> doing Ni-Cads which usually top-out around 1.65 volts (where they
>>>> experience a voltage drop), and I set the float voltage for the bunch at
>>>> 1.5 volts.  Would the maximum voltage of each cell make a difference
>>>> here?
>>>>
>>>> Thanks for your help.
>> Under the parallel charging scenario you outline you should be
>> charging your NiCds with a CURRENT appropriate for the total amount of
>> capacity you have in parallel.  I'd suggest the cells be reasonably
>> well charged before paralleling them for a final finishing charge.
>>
>> The Li-Ion cells are the ones you need to charge to a specific (and
>> safe) voltage.
>>
>> Your discharge regime sounds OK, but in addition to a discharge for a
>> certain length of time I'd continue that to the desired cutoff voltage
```

>> for the cell in question and record the time required to reach that
>> point. That will require you to be there and be more vigilant, but it
>> will give a far better figure for cell comparison.
>>
>> You might want to plot voltage vs time at rather close intervals on at
>> least one cell just to see how voltage changes over time. Do that and
>> you'll probably see why I recommend measuring the time to a specific
>> cutoff voltage.
>
> Lithium Ions are odd.
>
> For the others, It is best to stay with same model cells. They are not
> created equal. It is pretty easy to just make the pack and do your testing
> with the MAHA, then throw out the cells that fall down first. I have the
> Radio Shack/MAHA and sometimes it doesn't detect properly until the pack
> gets going.
>
> I have a handful of surplus NiMh 1ah AA cells that I constantly rotate and
> they get used in cameras, radios, flashlights and anything else. They were
> tab type that I pulled the tabs off and soldered a blob of Silver solder on
> the plus to make them fit in holders. Been using them for at least 5 years
> now.
==
Nicad and NimH cells not regularly used can be best continously tickle
charged at 10 -40 mA depending on size/capacity.
Example : I have a Wahl cordless battery powered soldering iron 2.4 V (2
cells) which is continously trickle charged at 10 mA . When in use the
charge rate is switched to 300 mA.

Frank   KN6WH / GM0CSZ

From 4386244285426568586
X-Google-Thread: fc2a5,9fc6201b92c6c1e8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!u18g2000pro.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking "airdux" coil
Date: Mon, 26 Jan 2009 19:40:34 -0800 (PST)
Organization: http://groups.google.com
Lines: 54
Message-ID: <76f42369-997a-44e2-9e62-3ca49c6058d5@u18g2000pro.googlegroups.com>
References: <glfr41$d75$1@news.motzarella.org>
<bNPel.13972$k57.13909@newsfe09.iad>
     <glgjls02990@news2.newsguy.com> <XzQel.209641$2w3.201491@newsfe19.iad>
     <8d00d6f2-f0a1-449d-b8b9-d0836880ffe9@f40g2000pri.googlegroups.com>
     <Vc%el.149558$H12.23013@newsfe12.iad>
NNTP-Posting-Host: 76.226.137.177
Mime-Version: 1.0

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Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1233027634 13137 127.0.0.1 (27 Jan 2009 03:40:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Jan 2009 03:40:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u18g2000pro.googlegroups.com; posting-host=76.226.137.177;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2125

On Jan 25, 10:05=A0am, "Tio Pedro" <radioconnect...@cox.net> wrote:
> "raypsi" <RBorow...@gmail.com> wrote in message
>
> news:8d00d6f2-f0a1-449d-b8b9-d0836880ffe9@f40g2000pri.googlegroups.com...
> On Jan 24, 9:58 pm, "Tio Pedro" <radioconnect...@cox.net> wrote:
>
> > I'm not sure if you thought of this, but there are
> > a few guys who do nothing but part out Heathkits
> > and sell the parts on eBay. Right now there's a
> > DX-40 PA coil going for a few bucks. I've seen
> > tons of AirDux styles (such as the DX-40), and
> > also fiberglas and ceramic tanks from later
> > Heathkits. I picked up a PA tank (ceramic form)
> > for a TX project I'm planning. Often the PA
> > tank switch is included, along with the standoff
> > insulators. Worth a shot if nothing pans out here.
>
> > Pete k1zjh
>
> Hey OM
>
> I don't know about that, I bought an airdux coil off of ebay came
> with the catalog spec sheet for airdux coils
> The guy listed it as a 100 watt rated coil turned out to be a 1000
> watt coil verified by the spec sheet that came with it =A0Although I'll
> say this nobody else bid on it. And sometimes they use other ebayers
> pictures and tell you yup what you see is what you get. And the
> picture isn't a picture of the item.
> =A0Good luck and 73 OM
> de n8zu
>
> You misread what I said. My advice was to look for a PA
> tank that was salvaged from a DX-40, DX-60, HW-101, etc.
> Not NOS AirDux stock. Unfortunately there seems to be a
> lot of folks chopping these old rigs up for parts and selling
> them off piece meal. =A0The early DX series used AirDux
> like coils, and they are already tapped for the five original
> HF bands. =A0There isn't a big market for them so they
> sell cheap.
>
```

```
> Pete

Hey OM

I think yoiu mis read what I wrote. I'm just slamming ebay, not what
you should or shouldn't be looking for.
Towit if you see a pix of a coil pulled from a rig and the description
says its from that rig, doesn't mean it's the truth the whole truth
and nothing but the truth.You'd be better off using craigslist.com.
When using ebay it's like dropping a bar of soap in the shower in
jail.

73 OM
de n8zu


From -6624425769904720786
X-Google-Thread: fc2a5,9fc6201b92c6c1e8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news4
From: Bill M <radioexray@geemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: seeking "airdux" coil
Date: Mon, 26 Jan 2009 23:55:28 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 23
Message-ID: <glm0jg01fcm@news4.newsguy.com>
References: <glfr41$d75$1@news.motzarella.org>
<bNPel.13972$k57.13909@newsfe09.iad> <glgjls02990@news2.newsguy.com>
<XzQel.209641$2w3.201491@newsfe19.iad>    <8d00d6f2-f0a1-449d-b8b9-
d0836880ffe9@f40g2000pri.googlegroups.com>
<Vc%el.149558$H12.23013@newsfe12.iad>
<76f42369-997a-44e2-9e62-3ca49c6058d5@u18g2000pro.googlegroups.com>
NNTP-Posting-Host: p6b6cbfbfff00000021f644f471e8deb8c6e383d13444b10f.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <76f42369-997a-44e2-9e62-3ca49c6058d5@u18g2000pro.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1829

raypsi wrote:
> On Jan 25, 10:05 am, "Tio Pedro" <radioconnect...@cox.net> wrote:
>> "raypsi" <RBorow...@gmail.com> wrote in message
>>
>> news:8d00d6f2-f0a1-449d-b8b9-d0836880ffe9@f40g2000pri.googlegroups.com...
>> On Jan 24, 9:58 pm, "Tio Pedro" <radioconnect...@cox.net> wrote:
>>
>>> I'm not sure if you thought of this,
>
```

> I think yoiu mis read what I wrote. I'm just slamming ebay, not what
> you should or shouldn't be looking for.
> Towit if you see a pix of a coil pulled from a rig and the description
> says its from that rig, doesn't mean it's the truth the whole truth
> and nothing but the truth.You'd be better off using craigslist.com.
> When using ebay it's like dropping a bar of soap in the shower in
> jail.
>
> 73 OM
> de n8zu

Yeah, pete. What were you thinking? Real homebrewers don't use
ebay...craigslist is better.

```
From 2372003415224596427
X-Google-Thread: fc2a5,9fc6201b92c6c1e8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news.astraweb.com!
border2.newsrouter.astraweb.com!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: seeking "airdux" coil
Date: Mon, 26 Jan 2009 20:18:02 -0800
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2009.01.27.04.18.02.6659@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <glfr41$d75$1@news.motzarella.org>
<bNPel.13972$k57.13909@newsfe09.iad> <glgjls02990@news2.newsguy.com>
<Xns9B9E61059DB51VeebleFetzer@216.250.184.7>
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DUnZ2dnUVZ_uKWnZ2d@giganews.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 6
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: b269fb80.news.astraweb.com
X-Trace: DXC=@N@b>ELQXnWZio4aKR`fh\L?
0kYOcDh@ZEdMnS:4>:J_TYHSj\YTXdZE225kP77^ST:i1N2;`Z\i_KH_@hNodRaX
Xref: g2news2.google.com rec.radio.amateur.homebrew:2127
```

On Mon, 26 Jan 2009 07:12:12 -0600, ReasonableMan wrote:

> SUPPLY AND DEMAND....
> That is the only thing the really counts.......

And stupid consumers.

```
From -6559877238282941229
X-Google-Thread: fc2a5,b8313cb81a65bf
```

```
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <3F4051E2.64CD6570@NoDirectMail.com>
<k3kin4dqtedltd3qq4afr19qtk3pdi1j4j@4ax.com>
<9mamn41dl9c38q3gbblg2prd3kjqrjko2i@4ax.com>
<bzLel.1756$Aw2.1450@nwrddc02.gnilink.net>
<BJqdnVDwcunZwOPUnZ2dnUVZ8tzinZ2d@pipex.net>
Subject: Re: Battery matching solution?
Lines: 86
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <oTJfl.90$N5.23@nwrddc01.gnilink.net>
Date: Tue, 27 Jan 2009 20:11:00 GMT
NNTP-Posting-Host: 71.104.210.224
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1233087060 71.104.210.224 (Tue, 27 Jan 2009 15:11:00
EST)
NNTP-Posting-Date: Tue, 27 Jan 2009 15:11:00 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:2128
```

"highlandham" <rfburns@nospam.sco> wrote in message
news:BJqdnVDwcunZwOPUnZ2dnUVZ8tzinZ2d@pipex.net...

```
> JB wrote:
> >>>> I'm trying to match AA battery capacities so they can be used
together
> >>>> in battery packs and I think created a low-tech way to do this.  I'd
> >>>> like to hear more informed opinions.
> >>>>
> >>>> This would apply to NiCads and NiMh but it should work with
lithium-ions
> >>>> too.
> >>>>
> >>>> Take all your batteries of the same type and charge them all in
parallel
> >>>> to the same voltage.  Then one at a time remove them from the float
> >>>> voltage and attach them to a fixed size resistor (say 6 ohms) for a
> >>>> fixed period of time (say 3 hours) then measure their voltage.  Well
> >>>> matched batteries should have similar voltages.
> >>>>
> >>>> Does this wash?
```

> >>>>
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I'm
> >>>> doing Ni-Cads which usually top-out around 1.65 volts (where they
> >>>> experience a voltage drop), and I set the float voltage for the bunch
at
> >>>> 1.5 volts. Would the maximum voltage of each cell make a difference
> >>>> here?
> >>>>
> >>>> Thanks for your help.
> >> Under the parallel charging scenario you outline you should be
> >> charging your NiCds with a CURRENT appropriate for the total amount of
> >> capacity you have in parallel. I'd suggest the cells be reasonably
> >> well charged before paralleling them for a final finishing charge.
> >>
> >> The Li-Ion cells are the ones you need to charge to a specific (and
> >> safe) voltage.
> >>
> >> Your discharge regime sounds OK, but in addition to a discharge for a
> >> certain length of time I'd continue that to the desired cutoff voltage
> >> for the cell in question and record the time required to reach that
> >> point. That will require you to be there and be more vigilant, but it
> >> will give a far better figure for cell comparison.
> >>
> >> You might want to plot voltage vs time at rather close intervals on at
> >> least one cell just to see how voltage changes over time. Do that and
> >> you'll probably see why I recommend measuring the time to a specific
> >> cutoff voltage.
> >
> > Lithium Ions are odd.
> >
> > For the others, It is best to stay with same model cells. They are not
> > created equal. It is pretty easy to just make the pack and do your
testing
> > with the MAHA, then throw out the cells that fall down first. I have
the
> > Radio Shack/MAHA and sometimes it doesn't detect properly until the pack
> > gets going.
> >
> > I have a handful of surplus NiMh 1ah AA cells that I constantly rotate
and
> > they get used in cameras, radios, flashlights and anything else. They
were
> > tab type that I pulled the tabs off and soldered a blob of Silver solder
on
> > the plus to make them fit in holders. Been using them for at least 5
years
> > now.
> ==
> Nicad and NimH cells not regularly used can be best continously tickle
> charged at 10 -40 mA depending on size/capacity.
> Example : I have a Wahl cordless battery powered soldering iron 2.4 V (2
> cells) which is continously trickle charged at 10 mA . When in use the

> charge rate is switched to 300 mA.
>
> Frank   KN6WH / GM0CSZ
>

I have one of those too. The originals were NiCad ? mAH, Then the 1.2 AH fast charge cells, but this last replacement bunch are NiMh 3 AH cells that I pulled out of a new Radio Shack race car battery. This has never gone dead on me even after sitting a month in the tool box.   I have both the original charger and the Orange one that is just enough for a decent charge but has no idea when to shut off. NiMh don't mind being topped off, but don't like to be hit really hard like NiCads do.

```
From -191561674426221260
X-Google-Thread: fc2a5,dbae402e1b6a9c82,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o11g2000yql.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Looking for dead HP848x RF power sensor head
Date: Sat, 31 Jan 2009 17:05:19 -0800 (PST)
Organization: http://groups.google.com
Lines: 8
Message-ID: <b0b9e9c2-e7c9-4779-b71e-2d94e98f2db4@o11g2000yql.googlegroups.com>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1233450320 445 127.0.0.1 (1 Feb 2009 01:05:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 1 Feb 2009 01:05:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o11g2000yql.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.5)
     Gecko/2008120122 Firefox/3.0.5,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2129
```

I'm looking for a dead HP848_ (e.g., 8482A) power sensor head that someone just hasn't gotten around to throwing out yet. I'm just looking for the connector to the cable to the power meter box, actually. Anyone??

Cheers,
Tom
k7itm

From -8866640662747985424
X-Google-Thread: fc2a5,7625634cca088955,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.plusnet!news.posted.plusnet.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 04 Feb 2009 12:56:21 -0600
From: "John" <jrw<spam_up>@gmx.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: WIA 'Amateur Radio' 10m FM Tcvr
Date: Wed, 4 Feb 2009 18:57:26 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <5MSdnThvLMVIeRTUnZ2dnUVZ8u6dnZ2d@posted.plusnet>
Lines: 25
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
ABFlarnadFZPEDQaw6aMAyfAJfYkFSIgON2CLyVTmZOs9HAQRKYrGhxd0R+UYZg2hJ4NY9VG1gMFxCQ!
mk2JczUnKll68gD3KAH37yFzaoVMKC4laSiyh5+unVERIB/fCrHegNBq94lLrZhOljtlftyUNyn9!
2IAOK2+rh6dQ
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2130

Hello folks,

I read with interest on this web page http://blog.marxy.org/ about an article in WIA's Amateur Radio featuring a 10m FM transceiver design using an AD9851 and an ATmega16. Does anyone have a copy of this article (and the source code) so I could have a look at it please?

73

John

--
www.wells10000.plus.com/m5aml
--

- -
If you're looking for a service provider that gives you a fast,
award winning & reliable service at a great price, PlusNet
is definitely for you.

http://www.wells10000.plus.com/   for more info.

```
From 7328796037084129040
X-Google-Thread: fc2a5,2d355c96148df6c7,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
news.wiretrip.org!border1.nntp.ams.giganews.com!nntp.giganews.com!
pe2.news.blueyonder.co.uk!blueyonder!pe1.news.blueyonder.co.uk!blueyonder!
cyclone02.ams2.highwinds-media.com!news.highwinds-media.com!
npeersf01.ams.highwinds-media.com!newsfe23.ams2.POSTED!7564ea0f!not-for-mail
From: "Theo" <theodore.twyler@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 2SC2509 ?
Lines: 6
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <YKHil.8275$aJ3.8054@newsfe23.ams2>
NNTP-Posting-Host: 86.15.197.154
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe23.ams2 1233864760 86.15.197.154 (Thu, 05 Feb 2009 20:12:40 UTC)
NNTP-Posting-Date: Thu, 05 Feb 2009 20:12:40 UTC
Organization: virginmedia.com
Date: Thu, 5 Feb 2009 20:12:36 -0000
Xref: g2news2.google.com rec.radio.amateur.homebrew:2131
```

Anyone out there know where I can buy a couple of 2SC2509 transistors?
Any help will be greatly appreciated.

Theo

```
From 9106299051046662172
X-Google-Thread: fc2a5,e90ebd6f8b1e4db,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe05.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: 01 tube as RF amp..
Lines: 7
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
```

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <3z86l.34897$fs1.18091@newsfe05.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe05.iad 1230574911 68.229.77.6 (Mon, 29 Dec 2008 18:21:51 UTC)
NNTP-Posting-Date: Mon, 29 Dec 2008 18:21:51 UTC
Organization: Cox
Date: Mon, 29 Dec 2008 13:21:51 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1683

Anyone really, really old dudes on hear who can advise
on how much RF power an 01 can handle? Can it drive
a 45 power stage?

Pete

From -4323975399604039750
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews4.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<q486l.14057$M01.1560@bignews3.bellsouth.net> <3y86l.34896$fs1.26748@newsfe05.iad>
In-Reply-To: <3y86l.34896$fs1.26748@newsfe05.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 32
Message-ID: <Hd96l.14276$mw2.7254@bignews4.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
npbhgpngjbkmjfegdbdpiflmbcekedmfhojhikkbagflhcbongpagcddjhddfnjpbknbjjcmonkcfibada
bknnjjejjlcdffcbifclokgogomcbhncmdhcleiijhgcdmhccbpnhdkiclokmipiemmhgefmiapjod
NNTP-Posting-Date: Mon, 29 Dec 2008 14:07:19 EST
Organization: BellSouth Internet Group
Date: Mon, 29 Dec 2008 14:09:13 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1981

Tio Pedro wrote:
> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
> news:q486l.14057$M01.1560@bignews3.bellsouth.net...
>> > To Hijack an old thread...

>>
>> The way tubes were numbered sometimes....
>> The 25L6 and 50L6 are NOT 6L6's with different heater voltages.
>> Actually both of these tubes are IDENTICAL with the 6W6GT except for the
>> heater ratings.
>
> Ken, isn't the 6W6 a high perveance tube, hence the relatively high
> filament current? If so, it might work well in a TX with slightly
> lower plate volages. I have a sleeve or two of those looking for
> a project...
>
> Pete
>
>
Based on what I found on google for 'high perveance' I guess so.
This tube has a max plate voltage rating of 330v, and a max G2 rating of
165 volts. It was used as an AF output tube in low plate voltage
radios, and in TV sets as a vertical output tube.

The 6Y6 is a similar tube, with 50ma more heater current and the same
plate dissipation rating in a larger bulb. It can handle higher plate
current than the 6W6, and it's max plate voltage and G2 rating is 200v.

I know that 50c5's and 50l6's were used in transmitter projects, so the
6W6 will work in the same circuits. The 6Y6 might bear looking into as
well.

From -1941189054434625681
X-Google-Thread: fc2a5,47e514c8168a12bd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe03.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <D366l.1734$Es4.1168@nwrddc01.gnilink.net>
<y776l.1774$BC4.1163@nwrddc02.gnilink.net> <mfmdnWpMk-UplMTUnZ2dnUVZ_gsAAAAA@web-ster.com>
Subject: Re: Paralleling computer power supplies
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <7B96l.57095$X05.5123@newsfe03.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe03.iad 1230579139 68.229.77.6 (Mon, 29 Dec 2008 19:32:19 UTC)

```
NNTP-Posting-Date: Mon, 29 Dec 2008 19:32:19 UTC
Organization: Cox
Date: Mon, 29 Dec 2008 14:32:19 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1685
```

Is there a feedback sensing line for voltage regulation
in the computer supplies that is accessible?
One trick I've seen done is to diode OR
the supplies, with the sense lines on the common
supply bus, after the diodes. MACom did this
on the massive switchers we used in our old fiber
nodes at work.

```
From -5452700358175546410
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews8.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 01 tube as RF amp..
References: <3z86l.34897$fs1.18091@newsfe05.iad>
In-Reply-To: <3z86l.34897$fs1.18091@newsfe05.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 18
Message-ID: <eJ96l.9$Y32.6@bignews8.bellsouth.net>
Date: Mon, 29 Dec 2008 14:44:03 -0500
NNTP-Posting-Host: 74.233.92.89
X-Complaints-To: abuse@bellsouth.net
X-Trace: bignews8.bellsouth.net 1230579658 74.233.92.89 (Mon, 29 Dec 2008 14:40:58
EST)
NNTP-Posting-Date: Mon, 29 Dec 2008 14:40:58 EST
Organization: BellSouth Internet Group
Xref: g2news1.google.com rec.radio.amateur.homebrew:1686
```

Tio Pedro wrote:
> Anyone really, really old dudes on hear who can advise
> on how much RF power an 01 can handle? Can it drive
> a 45 power stage?
>
> Pete
>
>

I have various old tube manuals in print and on disk.

None of them seem to list the maximum ratings for the 01A.
Maximum plate voltage seems to be 135 volts and max plate current
seems to be 3-5 ma. No mention of plate dissipation, but I think
that the plate voltage/current limitations will be the factor
here. I think the type '171 ('71A) which was used as an output stage in
old radios would make a better tube for this purpose. It can handle
up to 180 volts and at least 20ma of plate current. Again no plate
dissipation rating given. Also consider the type 12A, which is
a 'heavier' 01A rated to 180 volts and maybe 10ma of plate current.

From -1560550155362383185
X-Google-Thread: fc2a5,47e514c8168a12bd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news2!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews8.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Paralleling computer power supplies
References: <D366l.1734$Es4.1168@nwrddc01.gnilink.net>
<y776l.1774$BC4.1163@nwrddc02.gnilink.net> <mfmdnWpMk-UplMTUnZ2dnUVZ_gsAAAAA@web-
ster.com> <7B96l.57095$X05.5123@newsfe03.iad>
In-Reply-To: <7B96l.57095$X05.5123@newsfe03.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 13
Message-ID: <6L96l.11$Y32.5@bignews8.bellsouth.net>
Date: Mon, 29 Dec 2008 14:46:04 -0500
NNTP-Posting-Host: 74.233.92.89
X-Complaints-To: abuse@bellsouth.net
X-Trace: bignews8.bellsouth.net 1230579778 74.233.92.89 (Mon, 29 Dec 2008 14:42:58
EST)
NNTP-Posting-Date: Mon, 29 Dec 2008 14:42:58 EST
Organization: BellSouth Internet Group
Xref: g2news1.google.com rec.radio.amateur.homebrew:1687

Tio Pedro wrote:
> Is there a feedback sensing line for voltage regulation
> in the computer supplies that is accessible?
> One trick I've seen done is to diode OR
> the supplies, with the sense lines on the common
> supply bus, after the diodes. MACom did this
> on the massive switchers we used in our old fiber
> nodes at work.
>
>
I'd vote for the diode method, moving the sense line to after the diodes
OR just adjusting the supplies for about .6V more than what you want to
compensate for the diode voltage drop.

```
From 5205536215550011603
X-Google-Thread: 112d1e,741330d89a00600b
X-Google-Thread: fc2a5,741330d89a00600b
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews8.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Modding an AM BCB radio for VLF reception
References: <JsidnbYp05epoMXUnZ2dnUVZ_gSdnZ2d@earthlink.com>
<gjabkk012vl@news5.newsguy.com> <8eSdnUhPWPkNfMXUnZ2dnUVZ_jidnZ2d@earthlink.com>
In-Reply-To: <8eSdnUhPWPkNfMXUnZ2dnUVZ_jidnZ2d@earthlink.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 50
Message-ID: <9Q96l.13$Y32.0@bignews8.bellsouth.net>
Date: Mon, 29 Dec 2008 14:51:26 -0500
NNTP-Posting-Host: 74.233.92.89
X-Complaints-To: abuse@bellsouth.net
X-Trace: bignews8.bellsouth.net 1230580101 74.233.92.89 (Mon, 29 Dec 2008 14:48:21
EST)
NNTP-Posting-Date: Mon, 29 Dec 2008 14:48:21 EST
Organization: BellSouth Internet Group
Xref: g2news2.google.com sci.electronics.design:66094
rec.radio.amateur.homebrew:1985

Frnak McKenney wrote:
> Bill,
>
> Thanks for the comments.
>
> On Mon, 29 Dec 2008 07:17:39 -0400, Bill M <radioexray@geemail.com> wrote:
>> Frnak McKenney wrote:
>>> I'd like to listen in on NIST's 60kHz time broadcasts on WWVB
>>> "directly", but I like building things, and besides, I'm too chea...
>>> er, "thrifty" to go out and buy a VLF-specific receiver.
>> May be a moot point if you're just doing this for the heckuvit but
>> there's nothing to listen to per se at WWVB since the time is encoded
>> with pulse width modulation, ie no voice.
>
> I'm hoping that what I build will at least give me some idea of
> the WWVB signal strength. I started out being curious about the
> various "Atomic clocks" and thought about building a dedicated
> 60kHz WWVB receiver, but one of the problems one runs into with
> an idea like that is that "debugging" can be exremely frustrating
> without some piece of equipment that can offer a "second opinion".
```

```
>
> It's a question of "navigating" towards a solution. Without some
> sort of compass -- or at least some recognizable waypoints -- you
> have no idea if you're getting closer to a working design, going
> in circles, or moving further and further away. VOMs, 'scopes,
> signal generators, spectrum analyzers, PRINT/printf(), and even
> (Ack! Phlbbbbt!) 16" tall fanfold core dumps are all tools we
> have created for helping us find our way through mazes where our
> everyday senses are useless.
>
> And, as you say, I'm just curious: if WWVB is out there, unheard
> (by me, so far), I wonder what else might be? <grin!>
>
>
> Frank
> --
>     If you are not being criticized, you may not be doing much.
>                               -- Donald Rumsfeld
> --
> Frank McKenney, McKenney Associates
> Richmond, Virginia / (804) 320-4887
> Munged E-mail: frank uscore mckenney ayut mined spring dawt cahm (y'all)
I wonder if NAA is still on the air.  They were on 14 KHZ IIRC and at
least the were sending CW.  I remember an article in QST where someone
built a regenerative receiver to pick up their signal using old
honeycomb coils and a .001uf variable capacitor.  Someone else did the
same thing, but used an old tv flyback transformer (minus the ferrite
core) for the coil and a three gang TRF capacitor to tune it.

But how long is a 1/2 wave antenna at that frequency?


From 8726048343323592623
X-Google-Thread: fc2a5,741330d89a00600b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe05.iad.POSTED!7564ea0f!not-for-mail
From: "NoSPAM" <unknown@nospam.org>
Newsgroups: rec.radio.amateur.homebrew
Followup-To: rec.radio.amateur.homebrew
References: <JsidnbYp05epoMXUnZ2dnUVZ_gSdnZ2d@earthlink.com>
<gjabkk012vl@news5.newsguy.com> <8eSdnUhPWPkNfMXUnZ2dnUVZ_jidnZ2d@earthlink.com>
In-Reply-To: <8eSdnUhPWPkNfMXUnZ2dnUVZ_jidnZ2d@earthlink.com>
Subject: Re: Modding an AM BCB radio for VLF reception
Lines: 41
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="Windows-1252";
     reply-type=original
Content-Transfer-Encoding: 7bit
```

X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
Message-ID: <__96l.34909$fs1.2495@newsfe05.iad>
NNTP-Posting-Host: jnibogphckphemgkkgknfdakiclijcld
X-Complaints-To: abuse@charter.net
X-Trace:
dbkajaeeceiapgbcmcjobjcmnmlfmhhaabellhmmkhnkmoiljnibogphckphemgkfllejjhdijjjcbpjfo
ijfnklladaifhbogcofbnhmhlejmogdhfockohaadfndcpomehlggnafaaoamp
NNTP-Posting-Date: Mon, 29 Dec 2008 19:59:54 UTC
Date: Mon, 29 Dec 2008 15:00:00 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1986

"Frnak McKenney" <frnak@far.from.the.madding.crowd.com> wrote in message
news:8eSdnUhPWPkNfMXUnZ2dnUVZ_jidnZ2d@earthlink.com...
> I'm hoping that what I build will at least give me some idea of
> the WWVB signal strength. I started out being curious about the
> various "Atomic clocks" and thought about building a dedicated
> 60kHz WWVB receiver, but one of the problems one runs into with
> an idea like that is that "debugging" can be exremely frustrating
> without some piece of equipment that can offer a "second opinion".

I suggest you consult http://tf.nist.gov/stations/wwvbcoverage.htm. This shows the predicted coverage of WWVB at two hour intervals. Quoting from NIST's text:

"The coverage maps shown below are computer-generated estimates of WWVB signal strength under typical conditions. They show estimated signal coverage at two-hour intervals over the course of a day with WWVB operating at 50 kW radiated power. The shaded areas indicate those areas where signal levels are 100 microvolts per meter or greater. Note that the coverage area contracts during daylight hours and expands during nighttime hours."

It appears that, except for Florida, the middle and northern East Coast, and selected portions of the Northwest, the continental United States coverage is pretty solid. With the cost of commercial WWVB clocks being as low as $10.00, I'd buy one just to see if it can synchronize where you live.

QST and Ham Radio magazines have published several low frequency converter designs that may be useful for study:

Apr 2002 QST, Frank Gentges and Steve Ratzlaff: AMRAD Low Frequency Upconverter (correction Oct 2002)
Jun 1977 QST, Doug DeMaw & Jay Rusgrove: A High-Performance Low-Frequency Converter
Nov 1976 Ham Radio, Guenter Ruehr:Tuned Very Low-Frequency Converter
Apr 1964 QST, G. Holmes Wilson: A Simple Low-Frequency Converter
and for the Boatanchor enthusiast
Sep 1940 QST, Raymond Woodward, A Low-Frequency Converter

73, Dr. Barry L. Ornitz WA4VZQ

From -358054056186239236
X-Google-Thread: fc2a5,783c3451e5a982cb
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2!news.ripco.com!feeder.erje.net!news.mixmin.net!fmmck
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RF probe for millivolts?
Date: Mon, 29 Dec 2008 15:05:48 -0500
Organization: Mixmin
Lines: 25
Message-ID: <fmmck-2F9622.15054829122008@news.mixmin.net>
References: <738b45fe-43d6-44b1-b643-35c437815d64@w1g2000prm.googlegroups.com>
<00278a4d-f14e-49f5-9cb3-b5113424e93c@r15g2000prd.googlegroups.com>
NNTP-Posting-Host: 7b335e1ffb47976b7feafe44c59a33dd
X-Complaints-To: abuse@mixmin.net
NNTP-Posting-Date: Mon, 29 Dec 2008 20:05:49 +0000 (UTC)
User-Agent: MT-NewsWatcher/3.5.3b2 (Intel Mac OS X)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1987

In article
<00278a4d-f14e-49f5-9cb3-b5113424e93c@r15g2000prd.googlegroups.com>,
K7ITM <k7itm@msn.com> wrote:

> To be sure I'm not trying to blow smoke some bad place, I just tried
> this, with a 1N4148 as detector.

Tom & Larry-

Perhaps it is understood but not mentioned. If a test point has a DC level, connecting a diode might disturb the circuit.

If an oscilloscope is not available, I would use a 0.001 MFD series capacitor from the circuit, to a 10K Ohm resistor shunted by a 1N4148 diode to ground. The junction of the capacitor and diode/resistor combination, becomes a new test point that can be read on the lower ranges of a DC multimeter.

Of course the reading is only relative, but is quite handy when you need to tune for maximum output. In some cases I've permanently wired these test points into the circuit. That way you don't change tuning by removing the circuit.

Fred
K4DII

From 9211128558694740032

X-Google-Thread: fc2a5,783c3451e5a982cb
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe09.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <738b45fe-43d6-44b1-b643-35c437815d64@w1g2000prm.googlegroups.com>
<00278a4d-f14e-49f5-9cb3-b5113424e93c@r15g2000prd.googlegroups.com>
<fmmck-2F9622.15054829122008@news.mixmin.net>
Subject: Re: RF probe for millivolts?
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <Wda6l.19240$H11.15805@newsfe09.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe09.iad 1230581750 68.229.77.6 (Mon, 29 Dec 2008 20:15:50 UTC)
NNTP-Posting-Date: Mon, 29 Dec 2008 20:15:50 UTC
Organization: Cox
Date: Mon, 29 Dec 2008 15:15:51 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1691

"Fred McKenzie" <fmmck@aol.com> wrote in message news:fmmck-2F9622 > Of
course the reading is only relative, but is quite handy when you need
> to tune for maximum output. In some cases I've permanently wired these
> test points into the circuit. That way you don't change tuning by
> removing the circuit.
>
> Fred
> K4DII

It would be easy to cobble a FET cathode follower to avoid
the loading issues, but that might be more than the OP wants
to get involved with.

From 4835944578401823619
X-Google-Thread: fc2a5,8ef8363318947086,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 29 Dec 2008 14:33:16 -0600
From: "Hello.com" <hi@hello..com>

Newsgroups: rec.radio.amateur.homebrew
Subject: HC16 DSP Development Kit - M68HC16TK - M68HC16A1EVB
Date: Mon, 29 Dec 2008 14:33:19 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <TrqdnQIUfoKRqcTUnZ2dnUVZ_jqdnZ2d@giganews.com>
Lines: 7
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
QVK29lv9eOzO62WL5qUNjehtH2hZLjIyghHCJ1Aq9HtgKd3cREMKqZeqCfIYyx2sARLwZk651QZx9VW!
0lO7IescES13VDPTsb3Ctk1b6uVZrTZEhYUl2mqg8rknplXp9B9caeP+lLGgyW5jjATlAiWf00I=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:1989

HC16 DSP Development Kit - M68HC16TK - M68HC16A1EVB

http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&ssPageName=STRK:MESELX:IT&item=150318142852

From 5560765528107038811
X-Google-Thread: fc2a5,783c3451e5a982cb
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!c36g2000prc.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RF probe for millivolts?
Date: Mon, 29 Dec 2008 12:33:33 -0800 (PST)
Organization: http://groups.google.com
Lines: 52
Message-ID: <714d35e6-e2ae-4469-885f-bb257428d2ae@c36g2000prc.googlegroups.com>
References: <738b45fe-43d6-44b1-b643-35c437815d64@w1g2000prm.googlegroups.com>
    <00278a4d-f14e-49f5-9cb3-b5113424e93c@r15g2000prd.googlegroups.com>
    <fmmck-2F9622.15054829122008@news.mixmin.net>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1230582813 27481 127.0.0.1 (29 Dec 2008 20:33:33 GMT)

X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 29 Dec 2008 20:33:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c36g2000prc.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.5)
     Gecko/2008120122 Firefox/3.0.5,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1693

On Dec 29, 12:05=A0pm, Fred McKenzie <fm...@aol.com> wrote:
> In article
> <00278a4d-f14e-49f5-9cb3-b5113424e...@r15g2000prd.googlegroups.com>,
>
> =A0K7ITM <k7...@msn.com> wrote:
> > To be sure I'm not trying to blow smoke some bad place, I just tried
> > this, with a 1N4148 as detector.
>
> Tom & Larry-
>
> Perhaps it is understood but not mentioned. =A0If a test point has a DC
> level, connecting a diode might disturb the circuit.
>
> If an oscilloscope is not available, I would use a 0.001 MFD series
> capacitor from the circuit, to a 10K Ohm resistor shunted by a 1N4148
> diode to ground. =A0The junction of the capacitor and diode/resistor
> combination, becomes a new test point that can be read on the lower
> ranges of a DC multimeter.
>
> Of course the reading is only relative, but is quite handy when you need
> to tune for maximum output. =A0In some cases I've permanently wired these
> test points into the circuit. =A0That way you don't change tuning by
> removing the circuit.
>
> Fred
> K4DII

Yes, I was thinking that I probably should have shared the circuit I used. With proper construction the load on the RF circuit is mainly the diode's capacitance. For the test circuit, I used a 100pF cap from the RF to be measured, to the diode's cathode. Diode's anode to ground. I put a 10k resistor from the junction of the cap and diode off to an 0.1uF cap to ground, and monitored the voltage across that 0.1uF cap with the volt meter. I'd have used an RF choke instead of the resistor if I were trying to optimize it for some specific range of frequencies, or just a high value resistor. But since my source was a nice low impedance, there wasn't any need to optimize that part of the circuit further.

Sensitivity for very low RF voltages is greatly enhanced by using a high impedance meter. I would NOT put a 10k resistor to ground there if I wanted sensitivity to low millivolt RF, since the diode average current at low RF voltages is very low indeed. You can see that from

my reported results with the 1N4148 detector, with a 1 megohm meter
load versus with a 10 megohm meter load. With the high impedances
involved, the 100pF cap allows response down to well below what would
normally be considered RF frequencies. In the circuit described
above, the low-side 3dB corner frequency will be about that of the
100pF cap and the 10k resistor.

Cheers,
Tom

From 3724562777529996180
X-Google-Thread: fc2a5,8ef8363318947086
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe05.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <TrqdnQIUfoKRqcTUnZ2dnUVZ_jqdnZ2d@giganews.com>
Subject: Re: HC16 DSP Development Kit - M68HC16TK - M68HC16A1EVB
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <nQa6l.34912$fs1.27629@newsfe05.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe05.iad 1230584211 68.229.77.6 (Mon, 29 Dec 2008 20:56:51 UTC)
NNTP-Posting-Date: Mon, 29 Dec 2008 20:56:51 UTC
Organization: Cox
Date: Mon, 29 Dec 2008 15:56:52 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1991

"Hello.com" <hi@hello..com> wrote in message
news:TrqdnQIUfoKRqcTUnZ2dnUVZ_jqdnZ2d@giganews.com...
> HC16 DSP Development Kit - M68HC16TK - M68HC16A1EVB
>
> http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&ssPageName=STRK:MESELX:IT&item=150318142852
>

Not being a computer geek, would be this be usable for playing around with
hardware/software to control a PLL and maybe a display for a homebrew RX?

Pete

From 3700835317764649552
X-Google-Thread: fc2a5,47e514c8168a12bd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 29 Dec 2008 16:40:33 -0600
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups: rec.radio.amateur.homebrew
References: <D366l.1734$Es4.1168@nwrddc01.gnilink.net>
<y776l.1774$BC4.1163@nwrddc02.gnilink.net> <mfmdnWpMk-UplMTUnZ2dnUVZ_gsAAAAA@web-
ster.com> <7B96l.57095$X05.5123@newsfe03.iad>
Subject: Re: Paralleling computer power supplies
Date: Mon, 29 Dec 2008 17:40:31 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <LomdncoRZ818zMTUnZ2dnUVZ_oDinZ2d@giganews.com>
Lines: 29
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-UZrn+3TUMrvGnYKIkmRQyNDfT0lEbCO4vgqzbWKDthQd/pQaO/
5aocHXRTxLOkFS9wEP2nmE8QR6vtV!
FCjYslFW2AsEDEoV38qH+9TbLj0QFpIY07R6YoA5vMYI7x7MguotQZY7SO9ObDpQr+jJmm7DCXln
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:1992

"Tio Pedro" <radioconnection@cox.net> wrote in message
news:7B96l.57095$X05.5123@newsfe03.iad...
> Is there a feedback sensing line for voltage regulation
> in the computer supplies that is accessible?
> One trick I've seen done is to diode OR
> the supplies, with the sense lines on the common
> supply bus, after the diodes. MACom did this
> on the massive switchers we used in our old fiber
> nodes at work.
>

There are no sense lines available externally on a PC power supply. You might
take a look at the article on modding PC power supplies at
http://www.pavouk.org/hw/en_atxps.html. It shows a typical schematic (albeit a
bit aged now). Look at it and you can see where you might bring the sense lines
out of a "master" unit and run them into the "slave" units. No guarantee that
it will work, but I'd rather try that approach before the diode or resistor
solutions.
Of course, your PSUs will be different from the schematic in the web page, but

```
it should be similar enough that you can figure it out.
--
Dave M
MasonDG44 at comcast dot net  (Just substitute the appropriate characters in the
address)

Life is like a roll of toilet paper; the closer it gets to the end, the faster
it goes.




From 4291369512870689157
X-Google-Thread: fc2a5,8ef8363318947086
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews5.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HC16 DSP Development Kit - M68HC16TK - M68HC16A1EVB
References: <TrqdnQIUfoKRqcTUnZ2dnUVZ_jqdnZ2d@giganews.com>
<nQa6l.34912$fs1.27629@newsfe05.iad>
In-Reply-To: <nQa6l.34912$fs1.27629@newsfe05.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 16
Message-ID: <90d6l.85$gE4.63@bignews5.bellsouth.net>
Date: Mon, 29 Dec 2008 18:31:48 -0500
NNTP-Posting-Host: 74.233.92.89
X-Complaints-To: abuse@bellsouth.net
X-Trace: bignews5.bellsouth.net 1230593157 74.233.92.89 (Mon, 29 Dec 2008 18:25:57
EST)
NNTP-Posting-Date: Mon, 29 Dec 2008 18:25:57 EST
Organization: BellSouth Internet Group
Xref: g2news2.google.com rec.radio.amateur.homebrew:1993

Tio Pedro wrote:
> "Hello.com" <hi@hello..com> wrote in message
> news:TrqdnQIUfoKRqcTUnZ2dnUVZ_jqdnZ2d@giganews.com...
>> HC16 DSP Development Kit - M68HC16TK - M68HC16A1EVB
>>
>> http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&ssPageName=STRK:MESELX:IT&item=150318142852
>>
> Not being a computer geek, would be this be usable for playing around with
> hardware/software to control a PLL and maybe a display for a homebrew RX?
>
> Pete
```

```
>
>
A bit overkill for that.  DSP cpu's are good for signal processing such
as digital filtering of audio.  Look for a nice AVR or PIC development
board.



From -2478997379211952355
X-Google-Thread: fc2a5,783c3451e5a982cb
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i20g2000prf.googlegroups.com!not-for-
mail
From: lagagnon <lagagnon@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RF probe for millivolts?
Date: Mon, 29 Dec 2008 19:28:05 -0800 (PST)
Organization: http://groups.google.com
Lines: 13
Message-ID: <efe081fa-2dc9-4758-aece-ff147ba132e1@i20g2000prf.googlegroups.com>
References: <738b45fe-43d6-44b1-b643-35c437815d64@w1g2000prm.googlegroups.com>
     <zGS5l.38388$sC4.12117@newsfe04.iad>
NNTP-Posting-Host: 216.210.111.126
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1230607686 6632 127.0.0.1 (30 Dec 2008 03:28:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 30 Dec 2008 03:28:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i20g2000prf.googlegroups.com; posting-host=216.210.111.126;
     posting-account=GnZlZQoAAABffIJMUqK4qmBnjQy6OSgi
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.16)
     Gecko/20080716 SeaMonkey/1.1.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1697

On Dec 29, 6:00 am, "Tio Pedro" <radioconnect...@cox.net> wrote:
> Well, the old Boonton RF millivolters are dirt cheap these days...
>
> Do you have a good scope on hand?

DOH! In fact I do have access to one via a friend. Why didn't I think
of that in the first place? Too much wine and egg nog over Christmas I
guess. But also, thanks to v\everyone for all their comments - all
very useful and if the scope doesn't work for me I will try some of
the other ideas out. Cheers...

Larry VE7EA



From 3124207365194791646
```

```
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 29 Dec 2008 22:04:27 -0600
From: "Lynn" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <3z86l.34897$fs1.18091@newsfe05.iad>
In-Reply-To: <3z86l.34897$fs1.18091@newsfe05.iad>
Subject: Re: 01 tube as RF amp..
Date: Mon, 29 Dec 2008 20:04:18 -0800
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
Message-ID: <29Kdne8Xn-VWAMTUnZ2dnUVZ_gydnZ2d@giganews.com>
Lines: 30
X-Usenet-Provider: http://www.giganews.com
X-Trace:
sv3-7qjzmTGL8dK+0rxA95EJgbE1bwhmhwA5VoBWl1hd7Jo74JlbgmxkdWZMAV5Pugmbvce83kfiUerjTu
X!PIfygtBJR9L1v3LhIKJGHu0cToggoipIk6CHyL3LgsYw/HtkDqjhmal7rZkb9pTvvmjP3+nz
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1698
```

"Tio Pedro" <radioconnection@cox.net> wrote in message
news:3z86l.34897$fs1.18091@newsfe05.iad...

> Anyone really, really old dudes on hear who can advise
> on how much RF power an 01 can handle? Can it drive
> a 45 power stage?
>
> Pete

No. I don't have technical references as Ken does, but from practical experience (hope I'm not disclosing my age here), but the 01A is much better suited as a receiver RF stage, or a one tube "regenerative" set.......... or maybe an audio amp driving headphones.

If you're bound and determined to use these old bottles, a

better choice (I think) would be a 45 oscillator driving another
45 amplifier stage.

I've tried using 01A's in transmitter duty, but usually ended up
noticing a bright flash and then no more glow at all!....SOB

A 45 by itself as a one tube, crystal controlled transmitter isn't
too bad either. An FCC monitoring station somewhere in
Nebraska (If I recall correctly) objected to my 45's key clicks,
however. (And I was running an honest 3 watts on 40 in
Washington State.

Old Chief Lynn

From 6921232603273951798
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe21.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <3z86l.34897$fs1.18091@newsfe05.iad> <29Kdne8Xn-VWAMTUnZ2dnUVZ_gydnZ2d@giganews.com>
Subject: Re: 01 tube as RF amp..
Lines: 29
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <NKh6l.12318$gY5.3589@newsfe21.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe21.iad 1230612525 68.229.77.6 (Tue, 30 Dec 2008 04:48:45 UTC)
NNTP-Posting-Date: Tue, 30 Dec 2008 04:48:45 UTC
Organization: Cox
Date: Mon, 29 Dec 2008 23:48:50 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1996

"Lynn" <coffelt2@comcast.net> wrote in message
news:29Kdne8Xn-VWAMTUnZ2dnUVZ_gydnZ2d@giganews.com...
>
 > If you're bound and determined to use these old bottles, a
> better choice (I think) would be a 45 oscillator driving another
> 45 amplifier stage.
>
> I've tried using 01A's in transmitter duty, but usually ended up
> noticing a bright flash and then no more glow at all!....SOB

>
> A 45 by itself as a one tube, crystal controlled transmitter isn't
> too bad either. An FCC monitoring station somewhere in
> Nebraska (If I recall correctly) objected to my 45's key clicks,
> however. (And I was running an honest 3 watts on 40 in
> Washington State.
>
> Old Chief Lynn

If I had the money, I'd be using 10s, 801s or one of the
bottles that are so coveted by the audio guys these days..
I saw a few 01 xtal oscillators in early QSTs, but very
little information was given about them. Globe 45 tube
are extremely pricey too, unfortunately. I have a few
45 globes in the stash..

Pete

From -3133305174802220161
X-Google-Thread: fc2a5,783c3451e5a982cb
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe19.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <738b45fe-43d6-44b1-b643-35c437815d64@w1g2000prm.googlegroups.com> <zGS5l.38388$sC4.12117@newsfe04.iad> <efe081fa-2dc9-4758-aece-ff147ba132e1@i20g2000prf.googlegroups.com>
Subject: Re: RF probe for millivolts?
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <Vki6l.31223$ly1.3460@newsfe19.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe19.iad 1230614965 68.229.77.6 (Tue, 30 Dec 2008 05:29:25 UTC)
NNTP-Posting-Date: Tue, 30 Dec 2008 05:29:25 UTC
Organization: Cox
Date: Tue, 30 Dec 2008 00:29:30 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1997

" > DOH! In fact I do have access to one via a friend. Why didn't I think
> of that in the first place? Too much wine and egg nog over Christmas I
> guess. But also, thanks to v\everyone for all their comments - all

> very useful and if the scope doesn't work for me I will try some of
> the other ideas out. Cheers...
>
> Larry VE7EA
>

don't forget the scope is going to give you a very high reading,
since the display is peak-to-peak. You'll have to take the
reading from the waveform's 0 voltage cross-over
poiint to the peak of on one side of the full
waveform, and multiply by .707 to get the RMS value.

Pete

From -1723364921844192586
X-Google-Thread: fc2a5,8ef8363318947086
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe21.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <TrqdnQIUfoKRqcTUnZ2dnUVZ_jqdnZ2d@giganews.com>
<nQa6l.34912$fs1.27629@newsfe05.iad> <90d6l.85$gE4.63@bignews5.bellsouth.net>
Subject: Re: HC16 DSP Development Kit - M68HC16TK - M68HC16A1EVB
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <Pzi6l.12347$gY5.6568@newsfe21.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe21.iad 1230615919 68.229.77.6 (Tue, 30 Dec 2008 05:45:19 UTC)
NNTP-Posting-Date: Tue, 30 Dec 2008 05:45:19 UTC
Organization: Cox
Date: Tue, 30 Dec 2008 00:45:24 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1701

"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:90d6l.85$gE4.63@bignews5.bellsouth.net...
> >>
> A bit overkill for that. DSP cpu's are good for signal processing such as
> digital filtering of audio. Look for a nice AVR or PIC development board.

Duh!! Stupid me! I glossed right over the DSP part, I thought it
was an earlier Motorola processor evaluation board.

Pete

```
From 807742883689891614
X-Google-Thread: fc2a5,783c3451e5a982cb
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!v5g2000prm.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RF probe for millivolts?
Date: Mon, 29 Dec 2008 23:32:18 -0800 (PST)
Organization: http://groups.google.com
Lines: 31
Message-ID: <de4af91c-b836-4bab-aa19-91ff73c34e3a@v5g2000prm.googlegroups.com>
References: <738b45fe-43d6-44b1-b643-35c437815d64@w1g2000prm.googlegroups.com>
     <zGS5l.38388$sC4.12117@newsfe04.iad> <efe081fa-2dc9-4758-aece-
ff147ba132e1@i20g2000prf.googlegroups.com>
     <Vki6l.31223$ly1.3460@newsfe19.iad>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1230622338 8624 127.0.0.1 (30 Dec 2008 07:32:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 30 Dec 2008 07:32:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v5g2000prm.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.5)
     Gecko/2008120122 Firefox/3.0.5,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1702

On Dec 29, 9:29=A0pm, "Tio Pedro" <radioconnect...@cox.net> wrote:
> " > DOH! In fact I do have access to one via a friend. Why didn't I think
>
> > of that in the first place? Too much wine and egg nog over Christmas I
> > guess. But also, thanks to v\everyone for all their comments - all
> > very useful and if the scope doesn't work for me I will try some of
> > the other ideas out. Cheers...
>
> > Larry VE7EA
>
> don't forget the scope is going to give you a very high reading,
> since the display is peak-to-peak. =A0You'll have to take the
> reading from the waveform's =A00 voltage cross-over
> poiint to the peak of on one side of the full
> waveform, and multiply by .707 to get the RMS value.
```

>
> Pete

Another point about scopes and their probes: they commonly put quite
a bit of capacitance (several pF) at the point they're measuring. A
10:1 passive probe with a couple meters of cable will have several
tens of pF capacitance in the cable, and the capacitive part of the
divider at the probe body can't drop that by more than 10:1. I'm not
sure where the OP will be probing; it may be low enough frequency and
low enough impedance that it doesn't matter. But it's quite possible
for a decent diode-based RF probe to present lower capacitance than a
scope probe. Probing things without disturbing them can be very
tricky at times.

Cheers,
Tom

```
From 3609702688699334737
X-Google-Thread: fc2a5,47e514c8168a12bd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
v13g2000yqm.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Paralleling computer power supplies
Date: Tue, 30 Dec 2008 00:51:41 -0800 (PST)
Organization: http://groups.google.com
Lines: 41
Message-ID: <9d02a994-58b3-49a8-99ab-4a1aabf2bfab@v13g2000yqm.googlegroups.com>
References: <D366l.1734$Es4.1168@nwrddc01.gnilink.net>
<y776l.1774$BC4.1163@nwrddc02.gnilink.net>
     <mfmdnWpMk-UplMTUnZ2dnUVZ_gsAAAAA@web-ster.com>
<7B96l.57095$X05.5123@newsfe03.iad>
     <LomdncoRZ818zMTUnZ2dnUVZ_oDinZ2d@giganews.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1230627101 1843 127.0.0.1 (30 Dec 2008 08:51:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 30 Dec 2008 08:51:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v13g2000yqm.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1703
```

On Dec 29, 5:40=A0pm, "DaveM" <masondg4...@comcast99.net> wrote:
> "Tio Pedro" <radioconnect...@cox.net> wrote in message

```
>
> news:7B96l.57095$X05.5123@newsfe03.iad...
>
> > Is there a feedback sensing line for voltage regulation
> > in the computer supplies that is accessible?
> > One trick I've seen done is to diode OR
> > the supplies, with the sense lines on the common
> > supply bus, after the diodes. =A0MACom did this
> > on the massive switchers we used in our old fiber
> > nodes at work.
>
> There are no sense lines available externally on a PC power supply. =A0Yo=
u might
> take a look at the article on modding PC power supplies athttp://www.pavo=
uk.org/hw/en_atxps.html. =A0It shows a typical schematic (albeit a
> bit aged now). =A0Look at it and you can see where you might bring the se=
nse lines
> out of a "master" unit and run them into the "slave" units. =A0No guarant=
ee that
> it will work, but I'd rather try that approach before the diode or resist=
or
solutions.
> Of course, your PSUs will be different from the schematic in the web page=
, but
> it should be similar enough that you can figure it out.
> --
> Dave M
> MasonDG44 at comcast dot net =A0(Just substitute the appropriate characte=
rs in the
> address)
>
> Life is like a roll of toilet paper; the closer it gets to the end, the f=
aster
> it goes.

As long as they use the same IC it shouldnt be too difficult to
figure  it out even if the rest of the circuit is different.

Jimmie



From -8223815422988025374
X-Google-Thread: fc2a5,47e514c8168a12bd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!x16g2000prn.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Paralleling computer power supplies
Date: Tue, 30 Dec 2008 04:03:22 -0800 (PST)
Organization: http://groups.google.com
Lines: 22
```

```
Message-ID: <84c626e3-0387-44c5-b736-27e65d2b6d40@x16g2000prn.googlegroups.com>
References: <D366l.1734$Es4.1168@nwrddc01.gnilink.net>
NNTP-Posting-Host: 76.226.132.176
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1230638602 26196 127.0.0.1 (30 Dec 2008 12:03:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 30 Dec 2008 12:03:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x16g2000prn.googlegroups.com; posting-host=76.226.132.176;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.17)
     Gecko/20080829 Firefox/2.0.0.17,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2001

On Dec 29, 10:31 am, "Dale Parfitt" <pari...@verizon.net> wrote:
> Has anyone connected a pair of identical computer supplies in parallel for
> additional current capabilities? Did it require a low R resistor to allow
> for any mismatch?
>
> Tnx,
>
> Dale W4OP

Hey OM
With my credit union branch going bellie up they tossed out tons of
computers. I can imagine there is comp supplies aplenty out there now
I see the wires them selves acting as milli volt drops. I mean how
many ground wires are coming out 8? Just use one ground wire and they
act like resistors. Albeit you better load those puppies up so that
little 18 AWG ground wire will do it's balancing act. I remember
buying comp supplies at Dayton one year for 50 cent they only worked
good when I loaded the 5 volt up big tme. Probably rejects brand new
in the box.

73 OM
n8zu


From 5370469829155618231
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r37g2000prr.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 01 tube as RF amp..
Date: Tue, 30 Dec 2008 04:56:41 -0800 (PST)
Organization: http://groups.google.com
Lines: 15
```

```
Message-ID: <c76f70ef-0cc1-49f8-b161-897bd8b470a0@r37g2000prr.googlegroups.com>
References: <3z86l.34897$fs1.18091@newsfe05.iad>
NNTP-Posting-Host: 76.226.132.176
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1230641801 3470 127.0.0.1 (30 Dec 2008 12:56:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 30 Dec 2008 12:56:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r37g2000prr.googlegroups.com; posting-host=76.226.132.176;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.17)
     Gecko/20080829 Firefox/2.0.0.17,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2002

On Dec 29, 1:21 pm, "Tio Pedro" <radioconnect...@cox.net> wrote:
> Anyone really, really old dudes on hear who can advise
> on how much RF power an 01 can handle? Can it drive
> a 45 power stage?
>
> Pete

Hey OM
How old is a really really old dude? Is that like Methuselah?
Although Ima really old fart. I think there would be to much gas in
that tube for you to use it for anything but a gas regulator tube. I
bet it would fire up at 150 VDC wit that nice blueish glow.

73 OM
n8zu



From -5264741885656791167
X-Google-Thread: fc2a5,783c3451e5a982cb
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.albasani.net!not-
for-mail
From: M0WYM <Sansspam@peartreegreen.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RF probe for millivolts?
Date: Tue, 30 Dec 2008 12:57:04 +0000
Organization: albasani.net
Lines: 31
Message-ID: <gjd5r0$g4t$1@news.albasani.net>
References: <738b45fe-43d6-44b1-b643-35c437815d64@w1g2000prm.googlegroups.com>
     <00278a4d-f14e-49f5-9cb3-b5113424e93c@r15g2000prd.googlegroups.com>
     <fmmck-2F9622.15054829122008@news.mixmin.net> <714d35e6-e2ae-4469-885f-
bb257428d2ae@c36g2000prc.googlegroups.com>
Mime-Version: 1.0
```

Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
INHdxAfOCC8Kbxx64ZLPdnAuts9bQs4MwdlQb5JCkXnDatJsPchUVp3U6tkqtxeRH63CuubSiu3wlLiWTo
LQNtJkKrHqtCmnniv/djv8G5WVEnAgVHj7AvJn+6M3sOuX
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Tue, 30 Dec 2008 12:57:04 +0000 (UTC)
X-User-ID: 0knTZnlIjjbsASDGeW1aPG0ihlbe4xp3DzmYbahfBOKdpbd0PPouUdY/
ImGvI7OvRLoR4yEsRv5opLIev0w8Og==
In-Reply-To: <714d35e6-e2ae-4469-885f-bb257428d2ae@c36g2000prc.googlegroups.com>
Cancel-Lock: sha1:/zfbfeasx6ZgtjDAv1U7TS+OFy8=
User-Agent: Thunderbird 2.0.0.18 (X11/20081125)
X-NNTP-Posting-Host: wXMIczVQicbDDYTvZxfogHXrs4Xhd+GSkBtD2shF3hU=
Xref: g2news2.google.com rec.radio.amateur.homebrew:2003

K7ITM wrote:
<SNIP>

>
> Sensitivity for very low RF voltages is greatly enhanced by using a
> high impedance meter. I would NOT put a 10k resistor to ground there
> if I wanted sensitivity to low millivolt RF, since the diode average
> current at low RF voltages is very low indeed. You can see that from
> my reported results with the 1N4148 detector, with a 1 megohm meter
> load versus with a 10 megohm meter load. With the high impedances
> involved, the 100pF cap allows response down to well below what would
> normally be considered RF frequencies. In the circuit described
> above, the low-side 3dB corner frequency will be about that of the
> 100pF cap and the 10k resistor.
>
> Cheers,
> Tom

You might find this interesting:
http://www.cliftonlaboratories.com/diodes_for_rf_probes.htm

Charlie.

--
M0WYM
www.radiowymsey.org

Sign today!
http://petitions.pm.gov.uk/SaveShortwave/

From -527898095923319064
X-Google-Thread: fc2a5,610ea0ef9ba9a3fd,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!

```
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.albasani.net!not-
for-mail
From: M0WYM <Sansspam@peartreegreen.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Spectrum Analyser Using Tek 465
Date: Tue, 30 Dec 2008 13:08:14 +0000
Organization: albasani.net
Lines: 17
Message-ID: <gjd6fv$htk$1@news.albasani.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
wgPAcwlkooiEntWNj9DigCRm0568IgyoxMfpIOFe9+DegZleG5dlTk+bENYhxAsjHOPGpkw6R5fN8HjZQH
yacMF+ZQHYEJjDiExtBGBN3nmmXLJ4P3Yl3ixqsscxbPlK
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Tue, 30 Dec 2008 13:08:15 +0000 (UTC)
X-User-ID: IeXBJP/
jDQhwCgJK8qlNx2N2Zvqr+XDroEZoGintaJWphEbHvw3aYtuEgF9hnFljHOCBSLVp+dKQNkkDvd4PJQ==
Cancel-Lock: sha1:eSxDddjt8QSXuy0Fv6n9Z0/U134=
User-Agent: Thunderbird 2.0.0.18 (X11/20081125)
X-NNTP-Posting-Host: S167jLHk0+MABHZmgT+UrlGor2+6qbwlVyoP/ryNkZ0=
Xref: g2news2.google.com rec.radio.amateur.homebrew:2004

I wonder if anyone knows of a project or kit that uses a 'scope
timebase output as the basis of an HF spectrum analyser. My aim is
to make something that would be useful for filter work so I'm not
necessarily looking for very wide frequency sweep.

TIA,


Charlie.

--
M0WYM
www.radiowymsey.org

Sign today!
http://petitions.pm.gov.uk/SaveShortwave/




From -6852286925977093281
X-Google-Thread: 112d1e,741330d89a00600b
X-Google-Thread: fc2a5,741330d89a00600b
X-Google-Attributes: gid112d1e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 30 Dec 2008 08:24:13 -0600
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
```

From: Frnak McKenney <frnak@far.from.the.madding.crowd.com>
Subject: Re: Modding an AM BCB radio for VLF reception
References: <JsidnbYp05epoMXUnZ2dnUVZ_gSdnZ2d@earthlink.com>
<gjabkk012vl@news5.newsguy.com> <8eSdnUhPWPkNfMXUnZ2dnUVZ_jidnZ2d@earthlink.com>
<W166l.1733$Es4.402@nwrddc01.gnilink.net>
User-Agent: slrn/0.9.7.3 (OS/2)
Message-ID: <nI-dncMZdfCQssfUnZ2dnUVZ_oninZ2d@earthlink.com>
Date: Tue, 30 Dec 2008 08:24:13 -0600
Lines: 58
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 96.248.0.155
X-Trace: sv3-vOxaxFn7RcYrLbRwI/g8WEEApAr1Ojpp/
jItL44YQpKzdydIhQ71rQQzrKdxqgvEFy1fEw0u3JPtNk8!
GJdbOzhdKrqzxwFvjdRZbjEfeLONiawxpebB/3A1VRAP9KdkVoiDMZI1KWtSx1CrOVx2T/vljFog!
P1lU32e0xASAb/l3yNFvjioSAZZBuOW6Gptp7/U0Mg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com sci.electronics.design:66312
rec.radio.amateur.homebrew:2005

On Mon, 29 Dec 2008 15:29:58 GMT, Dale Parfitt <parinc1@verizon.net> wrote:
>
> "Frnak McKenney" <frnak@far.from.the.madding.crowd.com> wrote in message
> news:8eSdnUhPWPkNfMXUnZ2dnUVZ_jidnZ2d@earthlink.com...
--snip--
>> On Mon, 29 Dec 2008 07:17:39 -0400, Bill M <radioexray@geemail.com> wrote:
>>> Frnak McKenney wrote:
>>>> I'd like to listen in on NIST's 60kHz time broadcasts on WWVB
>>>> "directly", but I like building things, and besides, I'm too chea...
>>>> er, "thrifty" to go out and buy a VLF-specific receiver.
>>>
>>> May be a moot point if you're just doing this for the heckuvit but
>>> there's nothing to listen to per se at WWVB since the time is encoded
>>> with pulse width modulation, ie no voice.
>>
>> I'm hoping that what I build will at least give me some idea of
>> the WWVB signal strength. I started out being curious about the
>> various "Atomic clocks" and thought about building a dedicated
>> 60kHz WWVB receiver, but one of the problems one runs into with
>> an idea like that is that "debugging" can be exremely frustrating
>> without some piece of equipment that can offer a "second opinion".

> For $14 you can buy a decent converter- and put it on a decent receiver.
> http://jacksonharbor.home.att.net/lfconv.htm
>
> WWVB may be strong, but you may never know with your idea, - not knowing
> your converted receiver's sensitivity, immunity to overload, images and the
> ability to have a decent antenna.

Dale,

Thanks for the pointer. I apparently overlooked this one. Now all I have to do is find "a decent receiver". <grin!>

Actually, it's a good excuse to fire up the old Heathkit Mohican shortwave set (with SIX -- count 'em! SIX transistors!) my father and I built some years back as a brithday gift for my mother. I replaced the power supply electrolytics a few years ago so I could hear static and background hiss over the hum (yes, it was that bad <grin!>), but the insides could use a good dusting as well. Tighten up the dial cord. That sort of thing.

And $14 vs. several hours with a 'scope and a signal generator trying to tune my "hacked" RF and LO sections sounds like a good choice.

Thanks.

Frank
--
> Once we believe in ourselves, we can risk curiosity, wonder,
> spontaneous delight, or any experience that reveals the human
> spirit. -- e e cummings

--
Frank McKenney, McKenney Associates
Richmond, Virginia / (804) 320-4887
Munged E-mail: frank uscore mckenney ayut mined spring dawt cahm (y'all)

From 7504762921154552687
X-Google-Thread: fc2a5,610ea0ef9ba9a3fd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe12.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <gjd6fv$htk$1@news.albasani.net>
Subject: Re: Spectrum Analyser Using Tek 465
Lines: 31
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <xqq6l.24140$701.1410@newsfe12.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe12.iad 1230648093 68.229.77.6 (Tue, 30 Dec 2008 14:41:33 UTC)
NNTP-Posting-Date: Tue, 30 Dec 2008 14:41:33 UTC
Organization: Cox
Date: Tue, 30 Dec 2008 09:41:38 -0500

Xref: g2news2.google.com rec.radio.amateur.homebrew:2006

"M0WYM" <Sansspam@peartreegreen.org> wrote in message
news:gjd6fv$htk$1@news.albasani.net...
>I wonder if anyone knows of a project or kit that uses a 'scope timebase
>output as the basis of an HF spectrum analyser. My aim is to make something
>that would be useful for filter work so I'm not necessarily looking for
>very wide frequency sweep.
> Charlie. M0WYM
>

My own analyzer was a kit for a QST project sold by
A&A Engineering; the design centered around a CATV
module and had it's own timebase and IF strip/log detector
internally. The analyzer used the scope as a X-Y display.
For serious SSB and CW filter work the VCO is going to
be tricky, you'll need low phase noise, etc.; and a good
set of narrow IF filters that can be swept is another
can of worms. Most of the ham analyzers are better
suited for wider IF responses and wide sweep ranges.
I did a major rework of the IF and Log Amp using an
Analog Devices chip, but the analyzer still has
limitations.

I'd seriously look at some of the DSP receiver kits that
are now on the market--most offer spectrum display
on the computer screen, and adding a good, but
simple, sweep generator might be an easier approach.

Pete

From -3298656167197945586
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe12.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <3z86l.34897$fs1.18091@newsfe05.iad> <c76f70ef-0cc1-49f8-b161-897bd8b470a0@r37g2000prr.googlegroups.com>
Subject: Re: 01 tube as RF amp..
Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original

```
Message-ID: <Esq6l.24143$701.10437@newsfe12.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe12.iad 1230648228 68.229.77.6 (Tue, 30 Dec 2008 14:43:48 UTC)
NNTP-Posting-Date: Tue, 30 Dec 2008 14:43:48 UTC
Organization: Cox
Date: Tue, 30 Dec 2008 09:43:53 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1710
```

"raypsi" <RBorowiak@gmail.com> wrote in message
news:c76f70ef-0cc1-49f8-b161-897bd8b470a0@r37g2000prr.googlegroups.com...

> >
> Hey OM
> How old is a really really old dude? Is that like Methuselah?
> Although Ima really old fart. I think there would be to much gas in
> that tube for you to use it for anything but a gas regulator tube. I
> bet it would fire up at 150 VDC wit that nice blueish glow.
>
> 73 OM
> n8zu

Old, crotchity, and ill temptered!! Ha ha.. Definitely in the Old Fart catagory. QST did show some circuits using the 01s in xtal oscillators, so I know it was done.Whether it worked worth a darn, who knows! I suffer from too much gas, but I've never glowed like a Smurf.

Pete

```
From 9106664636590936949
X-Google-Thread: fc2a5,610ea0ef9ba9a3fd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!8c40745b!not-for-
mail
Reply-To: "Dale Parfitt" <parinc1@verizon.net>
From: "Dale Parfitt" <parinc1@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <gjd6fv$htk$1@news.albasani.net>
Subject: Re: Spectrum Analyser Using Tek 465
Lines: 25
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <ZCq6l.1994$Es4.1304@nwrddc01.gnilink.net>
```

```
Date: Tue, 30 Dec 2008 14:54:49 GMT
NNTP-Posting-Host: 96.235.87.149
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1230648889 96.235.87.149 (Tue, 30 Dec 2008 09:54:49
EST)
NNTP-Posting-Date: Tue, 30 Dec 2008 09:54:49 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:1711
```

"M0WYM" <Sansspam@peartreegreen.org> wrote in message
news:gjd6fv$htk$1@news.albasani.net...

>I wonder if anyone knows of a project or kit that uses a 'scope timebase
>output as the basis of an HF spectrum analyser. My aim is to make something
>that would be useful for filter work so I'm not necessarily looking for
>very wide frequency sweep.
>
> TIA,
>
>
> Charlie.
>

Hi Charlie,
For very little money, you can buy the miniVNA:
http://www.miniradiosolutions.com/

That will far outplay anything you can build. Because it makes use of a PC, it will have features well beyond a simple SA + tracking generator. In addition, it's a vector device.

GL,
Dale W4OP

```
From 3616545293122308872
X-Google-Thread: fc2a5,610ea0ef9ba9a3fd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe01.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <gjd6fv$htk$1@news.albasani.net>
<ZCq6l.1994$Es4.1304@nwrddc01.gnilink.net>
Subject: Re: Spectrum Analyser Using Tek 465
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
```

Message-ID: <T0s6l.25065$hr3.2131@newsfe01.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe01.iad 1230654643 68.229.77.6 (Tue, 30 Dec 2008 16:30:43 UTC)
NNTP-Posting-Date: Tue, 30 Dec 2008 16:30:43 UTC
Organization: Cox
Date: Tue, 30 Dec 2008 11:30:48 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1712

"Dale Parfitt" <parinc1@verizon.net> wrote in message news:ZCq6l.1994$ >>
> Hi Charlie,
> For very little money, you can buy the miniVNA:
> http://www.miniradiosolutions.com/
>
> That will far outplay anything you can build. Because it makes use of a
> PC, it will have features well beyond a simple SA + tracking generator. In
> addition, it's a vector device.
>
> GL,
> Dale W4OP
>

Their scalar network analyzer looks awesome too!
There's an amazing lack of "boatanchor" hardware
in these devices.

From 2257656089562092262
X-Google-Thread: fc2a5,47e514c8168a12bd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe02.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <D366l.1734$Es4.1168@nwrddc01.gnilink.net> <84c626e3-0387-44c5-
b736-27e65d2b6d40@x16g2000prn.googlegroups.com>
Subject: Re: Paralleling computer power supplies
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <E7s6l.167$4u2.58@newsfe02.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe02.iad 1230655076 68.229.77.6 (Tue, 30 Dec 2008 16:37:56 UTC)
NNTP-Posting-Date: Tue, 30 Dec 2008 16:37:56 UTC

Organization: Cox
Date: Tue, 30 Dec 2008 11:38:02 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1713

"raypsi" <RBorowiak@gmail.com> wrote in message news:84c626e3- I remember
> buying comp supplies at Dayton one year for 50 cent they only worked
> good when I loaded the 5 volt up big tme. Probably rejects brand new
> in the box.
>
> 73 OM
> n8zu

That is not unusual. Many of those supplies require loads
or they will crowbar.

Pete

From -5889759638246891993
X-Google-Thread: fc2a5,610ea0ef9ba9a3fd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!news.germany.com!newsfeed.straub-nv.de!
news.albasani.net!not-for-mail
From: M0WYM <Sansspam@peartreegreen.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Spectrum Analyser Using Tek 465
Date: Tue, 30 Dec 2008 18:05:31 +0000
Organization: albasani.net
Lines: 31
Message-ID: <gjdntc$8i5$1@news.albasani.net>
References: <gjd6fv$htk$1@news.albasani.net>
<ZCq6l.1994$Es4.1304@nwrddc01.gnilink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
X-Trace: news.albasani.net Ku1cKZFN5EXnWDQMwKWgDa/NIJuC2MN+whRCazC99cWq4c/
YqS6IjKm7T6cMIjrt8ixSnkCb6ZZ4isRgOG6KgKb0aMbjW5kSpNKjmP6ggTz2Yp1IWWVFiurP1vqsj/p+
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Tue, 30 Dec 2008 18:05:33 +0000 (UTC)
X-User-ID: KdI+98lytpQJhPRd3iiJHac4F070e6LSo/2a045Aksfdc3eQ2N35Q/
vI9w9yfyyf2gH2BYJfDmMaWD8fgg24cA==
In-Reply-To: <ZCq6l.1994$Es4.1304@nwrddc01.gnilink.net>
Cancel-Lock: sha1:5WGRVGO3Fumo1U2r0nzvIBMa1t8=
User-Agent: Thunderbird 2.0.0.18 (X11/20081125)
X-NNTP-Posting-Host: FfiFP2ZPiMOvD/TlDDDEkf2msrA2YBt+hf/k7pQdo5M=
Xref: g2news1.google.com rec.radio.amateur.homebrew:1714

Dale Parfitt wrote:
<SNIP>

> For very little money, you can buy the miniVNA:
> http://www.miniradiosolutions.com/
>
> That will far outplay anything you can build. Because it makes use of a PC,
> it will have features well beyond a simple SA + tracking generator. In
> addition, it's a vector device.
>
> GL,
> Dale W4OP
>
>

Dale,

That is neat but it works out as over �200 here (around $300). I
will bear it in mind as it would be great for antenna work using a
laptop.

Thanks,

Charlie.

--
M0WYM
www.radiowymsey.org

Sign today!
http://petitions.pm.gov.uk/SaveShortwave/

```
From 6115830742940792247
X-Google-Thread: fc2a5,610ea0ef9ba9a3fd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
feeder.erje.net!newsfeed.straub-nv.de!news.albasani.net!not-for-mail
From: M0WYM <Sansspam@peartreegreen.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Spectrum Analyser Using Tek 465
Date: Tue, 30 Dec 2008 18:07:59 +0000
Organization: albasani.net
Lines: 30
Message-ID: <gjdo1v$8i5$2@news.albasani.net>
References: <gjd6fv$htk$1@news.albasani.net> <xqq6l.24140$701.1410@newsfe12.iad>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
NLT4dLSwfSeeW5gGbqyUviNNltgOQwiQPby2CwTP0iYyVVRXjMfstwGgg0tV2ugvjJRNGYpWItz3O7B4b0
B1ZCecsPnHjDa4al/eGDlbR0uAvdUZLW8KeyNhfBwvUWUx
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Tue, 30 Dec 2008 18:08:00 +0000 (UTC)
```

```
X-User-ID: /
6Z3BkTdtrQZT7vWGgl6a2bfG77E6FntlXVFk67EbEvfWQiyVmvNRY5VLaWLBu9caYru+1LnlXGlqEilKMv
HKA==
In-Reply-To: <xqq6l.24140$701.1410@newsfe12.iad>
Cancel-Lock: sha1:74BS4krL1JlG7iZXxMdGjCBzyUc=
User-Agent: Thunderbird 2.0.0.18 (X11/20081125)
X-NNTP-Posting-Host: lCbdcyPEa2Te66oZ2iGOdH4Qf/67nh4a5JdlFdaybdE=
Xref: g2news2.google.com rec.radio.amateur.homebrew:2012

Tio Pedro wrote:
<SNIP>
>
> I'd seriously look at some of the DSP receiver kits that
> are now on the market--most offer spectrum display
> on the computer screen, and adding a good, but
> simple, sweep generator might be an easier approach.
>
> Pete
>
>

Pete,

That does sound interesting and pretty inexpensive. You have me
thinking now :)


Thanks,


Charlie.

--
M0WYM
www.radiowymsey.org

Sign today!
http://petitions.pm.gov.uk/SaveShortwave/




From 6036449363606659275
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews8.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 01 tube as RF amp..
```

References: <3z86l.34897$fs1.18091@newsfe05.iad> <c76f70ef-0cc1-49f8-b161-897bd8b470a0@r37g2000prr.googlegroups.com>
In-Reply-To: <c76f70ef-0cc1-49f8-b161-897bd8b470a0@r37g2000prr.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 30
Message-ID: <Eqt6l.429$Y32.30@bignews8.bellsouth.net>
Date: Tue, 30 Dec 2008 13:09:32 -0500
NNTP-Posting-Host: 74.233.101.81
X-Complaints-To: abuse@bellsouth.net
X-Trace: bignews8.bellsouth.net 1230660388 74.233.101.81 (Tue, 30 Dec 2008 13:06:28 EST)
NNTP-Posting-Date: Tue, 30 Dec 2008 13:06:28 EST
Organization: BellSouth Internet Group
Xref: g2news1.google.com rec.radio.amateur.homebrew:1716

raypsi wrote:
> On Dec 29, 1:21 pm, "Tio Pedro" <radioconnect...@cox.net> wrote:
>> Anyone really, really old dudes on hear who can advise
>> on how much RF power an 01 can handle? Can it drive
>> a 45 power stage?
>>
>> Pete
>
> Hey OM
> How old is a really really old dude? Is that like Methuselah?
> Although Ima really old fart. I think there would be to much gas in
> that tube for you to use it for anything but a gas regulator tube. I
> bet it would fire up at 150 VDC wit that nice blueish glow.
>
> 73 OM
> n8zu

The 01A was considered a 'hard vacuum' tube, the '00 was a 'vapor' tube, or soft vacuum tube. The only reason that the '00 was even made was because many 'old timers' (at the time that the '00 came out) remembered using the ORIGINAL DeForest Audio which was a soft vacuum tube. By carefully adjusting the plate and filament voltages a very sensitive operating point could be found. The tube was probably acting as a thyratron at this point, on the verge of super-conduction. The '00 could also operate this way, but since it's manufacture was more controlled than the original Audion the operating point was well known.

Even with it's 'hard vacuum' the 01 didn't have as good a 'getter' as later tubes and would arc over with more than 130 volts or so. It was used as a transmitter before the type 202 tube became widely available, but was a QRP thing, less than a watt input.

From -1271010870220346493
X-Google-Thread: fc2a5,610ea0ef9ba9a3fd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2!feeder.erje.net!

```
news2.arglkargh.de!news.albasani.net!not-for-mail
From: M0WYM <Sansspam@peartreegreen.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Spectrum Analyser Using Tek 465
Date: Tue, 30 Dec 2008 18:15:55 +0000
Organization: albasani.net
Lines: 18
Message-ID: <gjdogs$9at$1@news.albasani.net>
References: <gjd6fv$htk$1@news.albasani.net>
<ZCq6l.1994$Es4.1304@nwrddc01.gnilink.net> <gjdntc$8i5$1@news.albasani.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
X-Trace: news.albasani.net
fzgQG8U4y4FjVJh8ZZ4ZEAxK5e3rIIgHQWmOxBOSre9LAEiiqgVMYA5ZbH6kHFGDIExcSwgehnHUVUrPBn
Miidbn70/LEZqez0nNEc1x0FBGbPx9HhmyTIeG8it2kH91
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Tue, 30 Dec 2008 18:15:56 +0000 (UTC)
X-User-ID:
lwlWMYgkIMXLMwZMcBzsL9TIvMi8O0X4CdoWwQG9xD9HI4HzMsu5ATTreqjpKlUcmMypgAzjkZK6YPp+9D
tJ6w==
In-Reply-To: <gjdntc$8i5$1@news.albasani.net>
Cancel-Lock: sha1:Ddwd6v71WFuIo1DxOB2gKFE0DLg=
User-Agent: Thunderbird 2.0.0.18 (X11/20081125)
X-NNTP-Posting-Host: 9KsJZbct+6i2qzdQQABJwkh+0J/iaRWgTDYvj+PVMus=
Xref: g2news2.google.com rec.radio.amateur.homebrew:2014
```

M0WYM wrote:

>
> That is neat but it works out as over �200 here

Just seen an add for it in this months RadCom, Martin Lynch has it
at �259.95 ($426)!

Charlie.

--
M0WYM
www.radiowymsey.org

Sign today!
http://petitions.pm.gov.uk/SaveShortwave/

```
From -7334801813310180638
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
```

```
media.com!newsfe08.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <3z86l.34897$fs1.18091@newsfe05.iad> <c76f70ef-0cc1-49f8-
b161-897bd8b470a0@r37g2000prr.googlegroups.com>
<Eqt6l.429$Y32.30@bignews8.bellsouth.net>
Subject: Re: 01 tube as RF amp..
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <6Du6l.44247$an4.16900@newsfe08.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe08.iad 1230665282 68.229.77.6 (Tue, 30 Dec 2008 19:28:02 UTC)
NNTP-Posting-Date: Tue, 30 Dec 2008 19:28:02 UTC
Organization: Cox
Date: Tue, 30 Dec 2008 14:28:09 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:2015
```

"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:Eqt6l.429$Y32.30@bignews8.bellsouth.net...

> > Even with it's 'hard vacuum' the 01 didn't have as good a 'getter' as
> later tubes and would arc over with more than 130 volts or so. It was
> used as a transmitter before the type 202 tube became widely available,
> but was a QRP thing, less than a watt input.

Will it have enough output to drive a 245?

```
From 7629629426366193713
X-Google-Thread: fc2a5,610ea0ef9ba9a3fd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!8c40745b!not-for-
mail
Reply-To: "Dale Parfitt" <parinc1@verizon.net>
From: "Dale Parfitt" <parinc1@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <gjd6fv$htk$1@news.albasani.net>
<ZCq6l.1994$Es4.1304@nwrddc01.gnilink.net> <T0s6l.25065$hr3.2131@newsfe01.iad>
Subject: Re: Spectrum Analyser Using Tek 465
Lines: 25
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
```

```
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <CVu6l.2012$BC4.173@nwrddc02.gnilink.net>
Date: Tue, 30 Dec 2008 19:47:46 GMT
NNTP-Posting-Host: 96.235.87.149
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1230666466 96.235.87.149 (Tue, 30 Dec 2008 14:47:46
EST)
NNTP-Posting-Date: Tue, 30 Dec 2008 14:47:46 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:1719
X-Original-Bytes: 1707


"Tio Pedro" <radioconnection@cox.net> wrote in message
news:T0s6l.25065$hr3.2131@newsfe01.iad...
>
> "Dale Parfitt" <parinc1@verizon.net> wrote in message news:ZCq6l.1994$ >>
>> Hi Charlie,
>> For very little money, you can buy the miniVNA:
>> http://www.miniradiosolutions.com/
>>
>> That will far outplay anything you can build. Because it makes use of a
>> PC, it will have features well beyond a simple SA + tracking generator.
>> In addition, it's a vector device.
>>
>> GL,
>> Dale W4OP
>>
>
> Their scalar network analyzer looks awesome too!
> There's an amazing lack of "boatanchor" hardware
> in these devices.
Not even any condensers.

Dale





From -2448106864687371073
X-Google-Thread: fc2a5,610ea0ef9ba9a3fd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!8c40745b!not-for-
mail
Reply-To: "Dale Parfitt" <parinc1@verizon.net>
From: "Dale Parfitt" <parinc1@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <gjd6fv$htk$1@news.albasani.net>
<ZCq6l.1994$Es4.1304@nwrddc01.gnilink.net> <gjdntc$8i5$1@news.albasani.net>
<gjdogs$9at$1@news.albasani.net>
```

```
Subject: Re: Spectrum Analyser Using Tek 465
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <yWu6l.2013$BC4.1770@nwrddc02.gnilink.net>
Date: Tue, 30 Dec 2008 19:48:46 GMT
NNTP-Posting-Host: 96.235.87.149
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1230666526 96.235.87.149 (Tue, 30 Dec 2008 14:48:46
EST)
NNTP-Posting-Date: Tue, 30 Dec 2008 14:48:46 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:2017
X-Original-Bytes: 1452


"M0WYM" <Sansspam@peartreegreen.org> wrote in message
news:gjdogs$9at$1@news.albasani.net...
> M0WYM wrote:
>
>>
>> That is neat but it works out as over �200 here
>
> Just seen an add for it in this months RadCom, Martin Lynch has it at
> �259.95 ($426)!
>
>
> Charlie.
>
> --
> M0WYM

For what it does- that's a great price.
I have  $14K in my HP.
Dale

Dale W4OP





From -403105437336407253
X-Google-Thread: fc2a5,610ea0ef9ba9a3fd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!newshub.sdsu.edu!
spln!extra.newsguy.com!newsp.newsguy.com!news5
From: Bill M <radioexray@geemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Spectrum Analyser Using Tek 465
Date: Tue, 30 Dec 2008 15:51:21 -0400
```

```
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 27
Message-ID: <gjdu3r0k77@news5.newsguy.com>
References: <gjd6fv$htk$1@news.albasani.net>
<ZCq6l.1994$Es4.1304@nwrddc01.gnilink.net> <gjdntc$8i5$1@news.albasani.net>
<gjdogs$9at$1@news.albasani.net> <yWu6l.2013$BC4.1770@nwrddc02.gnilink.net>
NNTP-Posting-Host: pae9ca21fa5f2b248e6c87643fb817565feac0a0f60bff099.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <yWu6l.2013$BC4.1770@nwrddc02.gnilink.net>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1721

Dale Parfitt wrote:
> "M0WYM" <Sansspam@peartreegreen.org> wrote in message
> news:gjdogs$9at$1@news.albasani.net...
>> M0WYM wrote:
>>
>>> That is neat but it works out as over �200 here
>> Just seen an add for it in this months RadCom, Martin Lynch has it at
>> �259.95 ($426)!
>>
>>
>> Charlie.
>>
>> --
>> M0WYM
>
> For what it does- that's a great price.
> I have  $14K in my HP.
> Dale
>
> Dale W4OP
>
>


Wow!

-ex



From 1962607198314253111
X-Google-Thread: fc2a5,610ea0ef9ba9a3fd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!z27g2000prd.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Spectrum Analyser Using Tek 465
Date: Tue, 30 Dec 2008 11:58:02 -0800 (PST)
```

```
Organization: http://groups.google.com
Lines: 16
Message-ID: <f56bd8a4-ca56-4c81-958b-f1f1a6a66023@z27g2000prd.googlegroups.com>
References: <gjd6fv$htk$1@news.albasani.net>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1230667082 26206 127.0.0.1 (30 Dec 2008 19:58:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 30 Dec 2008 19:58:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z27g2000prd.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1722

On Dec 30, 8:08=A0am, M0WYM <Sanss...@peartreegreen.org> wrote:
> I wonder if anyone knows of a project or kit that uses a 'scope
> timebase output as the basis of an HF spectrum analyser. My aim is
> to make something that would be useful for filter work so I'm not
> necessarily looking for very wide frequency sweep.
>
> TIA,
>
> Charlie.

For filter work, I think you probably want a "sweep generator", not a
"spectrum analyzer". Many of the elements are the same but a sweep
generator is a far less ambitious project that is probably what you
want for alignments and filter design.

Tim N3QE



From 2353619009350363016
X-Google-Thread: fc2a5,610ea0ef9ba9a3fd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe04.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <gjd6fv$htk$1@news.albasani.net> <f56bd8a4-ca56-4c81-958b-
f1f1a6a66023@z27g2000prd.googlegroups.com>
Subject: Re: Spectrum Analyser Using Tek 465
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
```

```
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <Byw6l.57951$sC4.57187@newsfe04.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe04.iad 1230673185 68.229.77.6 (Tue, 30 Dec 2008 21:39:45 UTC)
NNTP-Posting-Date: Tue, 30 Dec 2008 21:39:45 UTC
Organization: Cox
Date: Tue, 30 Dec 2008 16:39:50 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:2020
```

"Tim Shoppa" <shoppa@trailing-edge.com> wrote in message
news:f56bd8a4-ca56-4c81-958b-f1f1a6a66023@z27g2000prd.googlegroups.com...

> Charlie.

For filter work, I think you probably want a "sweep generator", not a "spectrum analyzer". Many of the elements are the same but a sweep generator is a far less ambitious project that is probably what you want for alignments and filter design.

Tim N3QE

I would think a good SA with a tracking generator would be cat's meow. I wonder how a flat noise source would work in lieu of the TG to plot filter responses on a SA?

```
From -2748734449707108707
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews4.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 01 tube as RF amp..
References: <3z86l.34897$fs1.18091@newsfe05.iad> <c76f70ef-0cc1-49f8-
b161-897bd8b470a0@r37g2000prr.googlegroups.com>
<Eqt6l.429$Y32.30@bignews8.bellsouth.net> <6Du6l.44247$an4.16900@newsfe08.iad>
In-Reply-To: <6Du6l.44247$an4.16900@newsfe08.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 15
Message-ID: <WCx6l.495$3y5.269@bignews4.bellsouth.net>
Date: Tue, 30 Dec 2008 17:54:32 -0500
NNTP-Posting-Host: 74.233.101.81
X-Complaints-To: abuse@bellsouth.net
```

```
X-Trace: bignews4.bellsouth.net 1230677558 74.233.101.81 (Tue, 30 Dec 2008
17:52:38 EST)
NNTP-Posting-Date: Tue, 30 Dec 2008 17:52:38 EST
Organization: BellSouth Internet Group
Xref: g2news2.google.com rec.radio.amateur.homebrew:2021

Tio Pedro wrote:
> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
> news:Eqt6l.429$Y32.30@bignews8.bellsouth.net...
>>  > Even with it's 'hard vacuum' the 01 didn't have as good a 'getter' as
>> later tubes and would arc over with more than 130 volts or so.  It was
>> used as a transmitter before the type 202 tube became widely available,
>> but was a QRP thing, less than a watt input.
>
> Will it have enough output to drive a 245?
>
>
I'm sure it will drive a neutralized 245 to provide some gain.
You might not get enough drive for full power output from the 245.
(even if the 245 was run in class A, which requires NO driving power
you would still see SOME power gain).



From 6656348399197784674
X-Google-Thread: fc2a5,610ea0ef9ba9a3fd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
69.16.177.246.MISMATCH!cyclone03.ams2.highwinds-media.com!news.highwinds-
media.com!npeersf02.ams.highwinds-media.com!newsfe09.ams2.POSTED!7564ea0f!not-for-
mail
Message-ID: <B3sTuHg8iqWJFwM5@g3ohx.demon.co.uk>
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Spectrum Analyser Using Tek 465
References: <gjd6fv$htk$1@news.albasani.net>
 <f56bd8a4-ca56-4c81-958b-f1f1a6a66023@z27g2000prd.googlegroups.com>
 <Byw6l.57951$sC4.57187@newsfe04.iad>
Lines: 27
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.06-S (<XlfqWaZ7KPDVaPCj8REoeAFOiD>)
NNTP-Posting-Host: 80.176.138.122
X-Complaints-To: abuse@demon.net
X-Trace: newsfe09.ams2 1230678212 80.176.138.122 (Tue, 30 Dec 2008 23:03:32 UTC)
NNTP-Posting-Date: Tue, 30 Dec 2008 23:03:32 UTC
Date: Tue, 30 Dec 2008 23:03:24 +0000
Xref: g2news2.google.com rec.radio.amateur.homebrew:2022

In message <Byw6l.57951$sC4.57187@newsfe04.iad>, Tio Pedro
<radioconnection@cox.net> writes
>
>"Tim Shoppa" <shoppa@trailing-edge.com> wrote in message
```

```
>news:f56bd8a4-ca56-4c81-958b-f1f1a6a66023@z27g2000prd.googlegroups.com...
> > Charlie.
>
>For filter work, I think you probably want a "sweep generator", not a
>"spectrum analyzer". Many of the elements are the same but a sweep
>generator is a far less ambitious project that is probably what you
>want for alignments and filter design.
>
>Tim N3QE
>
>I would think a good SA with a tracking generator would be
>cat's meow. I wonder how a flat noise source would work
>in lieu of the TG to plot filter responses on a SA?
>
A flat noise generator does indeed work well as a wideband signal
source. However, to make sense of the trace, the spectrum analyser needs
a lot of lowpass filtering of the signal (after detection). This is
averages the spiky noise signal. Most modern digital analysers do have
an 'averaging' function but, on the older 'analogue' analysers,
filtering works fine. You would normally the maximum filtering possible
- typically 100 or 30Hz.
--
Ian



From 93047949800986694
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 30 Dec 2008 20:18:33 -0600
From: "Lynn" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <3z86l.34897$fs1.18091@newsfe05.iad> <c76f70ef-0cc1-49f8-
b161-897bd8b470a0@r37g2000prr.googlegroups.com>
<Eqt6l.429$Y32.30@bignews8.bellsouth.net> <6Du6l.44247$an4.16900@newsfe08.iad>
In-Reply-To: <6Du6l.44247$an4.16900@newsfe08.iad>
Subject: Re: 01 tube as RF amp..
Date: Tue, 30 Dec 2008 18:18:26 -0800
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
Message-ID: <kKKdnVTSmMnkS8fUnZ2dnUVZ_rydnZ2d@giganews.com>
Lines: 26
```

X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-FNA/t0hbzOaQNffoSOZG4pERbaFEzg+SzJ3SsL7M5ZwbNfWvlVTe4M502o1N3Vcbu/
SB7Gn2Dsadnqz!
wGWuWVQACTOCzvnLFadTVgWcr6U19+VHt5SR6UXLaecozom6+FFBshig6yKhEx2MAj9LuoxP
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2023

"Tio Pedro" <radioconnection@cox.net> wrote in message
news:6Du6l.44247$an4.16900@newsfe08.iad...
>
> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
> news:Eqt6l.429$Y32.30@bignews8.bellsouth.net...
>> > Even with it's 'hard vacuum' the 01 didn't have as good a 'getter' as
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> Will it have enough output to drive a 245?

I doubt it very seriously. I suppose if perfection was achieved in matching
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Ken's idea of going to class A might work, but the 245 would be running
in a very inefficient mode. There is one website showing a couple of
45's running in AB2 (how do you make a sub 2?) . Another website
has some interesting stuff with 245 chatter...... (you may have already
seen it, but just in case..........

http://www.antiquewireless.org/otb/29amp.htm

Old Chief Lynn, W7LTQ and a couple commercials

From -3535361380763168779
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!newshub.sdsu.edu!
spln!extra.newsguy.com!newsp.newsguy.com!news1
From: Bill M <radioexray@geemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 01 tube as RF amp..
Date: Tue, 30 Dec 2008 23:18:01 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 11
Message-ID: <gjeo9b01e6v@news1.newsguy.com>

References: <3z86l.34897$fs1.18091@newsfe05.iad> <c76f70ef-0cc1-49f8-b161-897bd8b470a0@r37g2000prr.googlegroups.com>
<Eqt6l.429$Y32.30@bignews8.bellsouth.net> <6Du6l.44247$an4.16900@newsfe08.iad>
<kKKdnVTSmMnkS8fUnZ2dnUVZ_rydnZ2d@giganews.com>
NNTP-Posting-Host: p14d1bfbfff00000011b4ca8178c42f995e0853484e3ba9c3.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <kKKdnVTSmMnkS8fUnZ2dnUVZ_rydnZ2d@giganews.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1727

Lynn wrote:
>

>
> Ken's idea of going to class A might work, but the 245 would be running
> in a very inefficient mode.

I can't fathom a 20s xmtr circuit running the PA in Class A.

-ex

From -5281275239614316445
X-Google-Thread: fc2a5,610ea0ef9ba9a3fd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-online.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Spectrum Analyser Using Tek 465
Date: Wed, 31 Dec 2008 09:26:37 +0000
Organization: Bias Comms
Lines: 18
Message-ID: <6s0s5vF3obpcU1@mid.individual.net>
References: <gjd6fv$htk$1@news.albasani.net>
<ZCq6l.1994$Es4.1304@nwrddc01.gnilink.net> <gjdntc$8i5$1@news.albasani.net>
<gjdogs$9at$1@news.albasani.net>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=utf-8
Content-Transfer-Encoding: 8Bit
X-Trace: individual.net I8EPcMCRyVolIu7be134lAC+pqyI2eBDiOVkUFWI6iGnDvEINi
Cancel-Lock: sha1:yKnhstFtgR9EHnVC9SPPx19pqNw=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:2025

M0WYM wrote:

> M0WYM wrote:
>
>>
>> That is neat but it works out as over £200 here
>
> Just seen an add for it in this months RadCom, Martin Lynch has it
> at £259.95 ($426)!
>
>
> Charlie.

That's a pretty good price, but if you're prepared to import it yourself, you can save some money. My HP and Avantek SAs cost over £35000 together!

Bob

```
From -8339652539247633188
X-Google-Thread: fc2a5,610ea0ef9ba9a3fd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!v15g2000yqn.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Spectrum Analyser Using Tek 465
Date: Wed, 31 Dec 2008 05:53:01 -0800 (PST)
Organization: http://groups.google.com
Lines: 24
Message-ID: <f4036645-544b-4395-992c-5011f8ca9028@v15g2000yqn.googlegroups.com>
References: <gjd6fv$htk$1@news.albasani.net> <f56bd8a4-ca56-4c81-958b-
f1f1a6a66023@z27g2000prd.googlegroups.com>
     <Byw6l.57951$sC4.57187@newsfe04.iad>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1230731581 17008 127.0.0.1 (31 Dec 2008 13:53:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 31 Dec 2008 13:53:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v15g2000yqn.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2026
```

On Dec 30, 4:39=A0pm, "Tio Pedro" <radioconnect...@cox.net> wrote:
> "TimShoppa" <sho...@trailing-edge.com> wrote in message
>

> news:f56bd8a4-ca56-4c81-958b-f1f1a6a66023@z27g2000prd.googlegroups.com...
> =A0> Charlie.
>
> For filter work, I think you probably want a "sweep generator", not a
> "spectrum analyzer". Many of the elements are the same but a sweep
> generator is a far less ambitious project that is probably what you
> want for alignments and filter design.
>
> Tim N3QE
>
> I would think a good SA with a tracking generator would be
> cat's meow.

Well, yeah, if you can swing it. But a sweep generator is more than
sufficient for filter design and alignments. And every decent radio/TV
repair shop had one already meaning they show up really really cheap
on E-bay or hamfests a lot. Or you can homebrew a sweep generator (see
EMRFD or a ARRL handbook) out of junk box parts for your particular
band of interest.

Tim N3QE

From 3147506675430106203
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2!news.glorb.com!bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews6.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 01 tube as RF amp..
References: <3z86l.34897$fs1.18091@newsfe05.iad> <c76f70ef-0cc1-49f8-b161-897bd8b470a0@r37g2000prr.googlegroups.com>
<Eqt6l.429$Y32.30@bignews8.bellsouth.net> <6Du6l.44247$an4.16900@newsfe08.iad>
<kKKdnVTSmMnkS8fUnZ2dnUVZ_rydnZ2d@giganews.com>
In-Reply-To: <kKKdnVTSmMnkS8fUnZ2dnUVZ_rydnZ2d@giganews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 32
Message-ID: <c%N6l.828$rF5.804@bignews6.bellsouth.net>
Date: Wed, 31 Dec 2008 12:33:09 -0500
NNTP-Posting-Host: 74.233.101.81
X-Complaints-To: abuse@bellsouth.net
X-Trace: bignews6.bellsouth.net 1230744648 74.233.101.81 (Wed, 31 Dec 2008 12:30:48 EST)
NNTP-Posting-Date: Wed, 31 Dec 2008 12:30:48 EST
Organization: BellSouth Internet Group
Xref: g2news2.google.com rec.radio.amateur.homebrew:2027

Lynn wrote:
>
> "Tio Pedro" <radioconnection@cox.net> wrote in message
> news:6Du6l.44247$an4.16900@newsfe08.iad...
>>
>> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
>> news:Eqt6l.429$Y32.30@bignews8.bellsouth.net...
>>> > Even with it's 'hard vacuum' the 01 didn't have as good a 'getter'
>>> as later tubes and would arc over with more than 130 volts or so. It
>>> was used as a transmitter before the type 202 tube became widely
>>> available, but was a QRP thing, less than a watt input.
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>> Will it have enough output to drive a 245?
> I doubt it very seriously. I suppose if perfection was achieved in matching
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> http://www.antiquewireless.org/otb/29amp.htm
>
> Old Chief Lynn, W7LTQ and a couple commercials
Actually AB1 would be better. My point was that you don't need driving
power until you start drawing grid current. As long as the final
doesn't draw grid current you are not loading down the oscillator tube.
The question was would the 01A be able to drive a '45. My answer is
yes, but probably not to full output....meaning you won't be able to
supply much grid current.

From -8200391851962130301
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 31 Dec 2008 12:29:45 -0600
From: "Lynn" <coffelt2@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <3z86l.34897$fs1.18091@newsfe05.iad> <c76f70ef-0cc1-49f8-
b161-897bd8b470a0@r37g2000prr.googlegroups.com>
<Eqt6l.429$Y32.30@bignews8.bellsouth.net> <6Du6l.44247$an4.16900@newsfe08.iad>
<kKKdnVTSmMnkS8fUnZ2dnUVZ_rydnZ2d@giganews.com>
<c%N6l.828$rF5.804@bignews6.bellsouth.net>
In-Reply-To: <c%N6l.828$rF5.804@bignews6.bellsouth.net>
Subject: Re: 01 tube as RF amp..
Date: Wed, 31 Dec 2008 10:29:42 -0800
MIME-Version: 1.0

```
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
Message-ID: <Q-mdnXCTJryEJ8bUnZ2dnUVZ_t3inZ2d@giganews.com>
Lines: 45
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-RgIUbH2TP5UOzmebUS/G2mZpE3D7/
SiM4G3Uv9dpzXjlvVyxAPTAr6lHjjgnOyIXN+uMrv8A3B+BbXB!
hoeiHFw1yOgYVrqKtKWvbkpu+XNGj2jkJGDERvRHl+hdeuSjcvOHYQGE5WrRKs1NsOv8BBsf
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2028


"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:c%N6l.828$rF5.804@bignews6.bellsouth.net...
> Lynn wrote:
>>
>> "Tio Pedro" <radioconnection@cox.net> wrote in message
>> news:6Du6l.44247$an4.16900@newsfe08.iad...
>>>
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>>>>  > Even with it's 'hard vacuum' the 01 didn't have as good a 'getter'
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>> Old Chief Lynn, W7LTQ and a couple commercials
```

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> draw grid current you are not loading down the oscillator tube.
> The question was would the 01A be able to drive a '45. My answer is yes,
> but probably not to full output....meaning you won't be able to supply
> much grid current

Yor're correct (as qualified, and as usual)
But the 01A is NOT a suitable (satisfactory?) driver
for a 45.

Happy New Year! (Will I see any of you on "Straight Key Night?(

Old Chief Lynn

```
From -1908707437956654517
X-Google-Thread: fc2a5,e90ebd6f8b1e4db
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2!news.glorb.com!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews7.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 01 tube as RF amp..
References: <3z86l.34897$fs1.18091@newsfe05.iad> <c76f70ef-0cc1-49f8-
b161-897bd8b470a0@r37g2000prr.googlegroups.com>
<Eqt6l.429$Y32.30@bignews8.bellsouth.net> <6Du6l.44247$an4.16900@newsfe08.iad>
<kKKdnVTSmMnkS8fUnZ2dnUVZ_rydnZ2d@giganews.com>
<c%N6l.828$rF5.804@bignews6.bellsouth.net> <Q-
mdnXCTJryEJ8bUnZ2dnUVZ_t3inZ2d@giganews.com>
In-Reply-To: <Q-mdnXCTJryEJ8bUnZ2dnUVZ_t3inZ2d@giganews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 56
Message-ID: <sgP6l.825$vs6.577@bignews7.bellsouth.net>
Date: Wed, 31 Dec 2008 14:05:39 -0500
NNTP-Posting-Host: 74.233.101.81
X-Complaints-To: abuse@bellsouth.net
X-Trace: bignews7.bellsouth.net 1230749848 74.233.101.81 (Wed, 31 Dec 2008
13:57:28 EST)
NNTP-Posting-Date: Wed, 31 Dec 2008 13:57:28 EST
Organization: BellSouth Internet Group
Xref: g2news1.google.com rec.radio.amateur.homebrew:1732
```

Lynn wrote:
>
> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
> news:c%N6l.828$rF5.804@bignews6.bellsouth.net...

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>>>>
>>>> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
>>>> news:Eqt6l.429$Y32.30@bignews8.bellsouth.net...
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>>>
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>>>
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> But the 01A is NOT a suitable (satisfactory?) driver
> for a 45.
>
> Happy New Year! (Will I see any of you on "Straight Key Night?(
>
> Old Chief Lynn
Well the original question was would it work, and the answer is yes, but
not very well.

If you want to use tubes from the same era, then I'd pick a '27 for the
oscillator. The 27 is probably the first tube in a chain of evolution
that led up to the 1626 which was used for the same purpose in the ARC-5
transmitters. (though the 1625 is a heck of a lot easier to drive than
a '45!).

```
From -2775318150701031289
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.eclipse.net.uk!news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 17 Dec 2008 15:25:44 -0600
Message-ID: <aMCY2+hTsWSJFAdI@ifwtech.co.uk>
Date: Wed, 17 Dec 2008 21:11:47 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
 <EdB1l.16656$uS1.14886@newsfe19.iad> <mVHHgPEIM2RJFADl@ifwtech.co.uk>
 <f286a892-c26b-4e87-b474-cfd5318669d2@z28g2000prd.googlegroups.com>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=iso-8859-1;format=flowed
Content-Transfer-Encoding: 8bit
User-Agent: Turnpike/6.05-M (<5mwkzTBRO5sETFKkGhyHHc+YXH>)
Lines: 34
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 91.84.209.172
X-Trace: sv3-Zjn9h+9S2u03GHYve8rTRTEoy/sut6n/
r5LF89t6BE6vUuSTBQmBcAYhE2lokwAbHCSxD9308GmbuGW!
Nj9Th5H7T4eSBj0Q1w1IxMncVoIeadRZJsMwzMg55OnJjT/WSw+d9saf5pJcH20crvxGlH4+Xw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:1877

JIMMIE wrote:
>On Dec 16, 3:12�am, Ian White GM3SEK <gm3...@ifwtech.co.uk> wrote:
>>Circular saw blades
>> for non-ferrous metal cutting are specially designed to reduce the
>> dangers of jammed blades and flying metal.
>>
>> As well as having many small teeth, the front cutting edge of each tooth
>> slopes slightly backward to avoid digging into the soft metal (known as
>> "negative rake"). Also the top profile of each tooth is designed to
>> remove the metal as small chips.
>>
>> Even negative rake blades are not jam-proof, especially when cutting
>> through tubing. Half-way through the cut, it becomes very easy to hook a
>> tooth into the wall of the tube, and BANG - it jams. Larry is very right
>> to be using a jig to hold everything very firmly.
>>

>
```

>I also believe in the right tool for the right job too but when I saw
>the $80 USD price tag on the right blade using the wrong one became
>more appealing.

We can pay those prices for big-name industrial saw blades in Europe
too. However, a 10in/254mm blade with negative rake carbide teeth can
also be found for less than $30:
http://tinyurl.com/4lflw2

That's not so bad, and I'd guess that someone in the USA is selling them
too.

--

73 from Ian GM3SEK

```
From 2110555962699056423
X-Google-Thread: fc2a5,ce1420f5d1625f56
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2!dotsrc.org!
filter.dotsrc.org!news.dotsrc.org!not-for-mail
From: "Ebbe \(7000\)" <es44(snabela)pc[punktum]dk>
Newsgroups: rec.radio.amateur.homebrew
References: <83d41cda-dca7-4709-adce-86dc13148353@f24g2000vbf.googlegroups.com>
<4946e567$0$90274$14726298@news.sunsite.dk> <5032bd78-4b6c-4067-b5d0-
dc05be22b472@r15g2000prh.googlegroups.com>
<4948ffcd$0$90272$14726298@news.sunsite.dk> <109576e8-
b7b1-4dbc-98ab-7614a27145c6@i18g2000prf.googlegroups.com>
Subject: Re: Reference oscillators
Date: Thu, 18 Dec 2008 09:23:22 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1933
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1933
Lines: 19
Message-ID: <494a087c$0$90266$14726298@news.sunsite.dk>
Organization: SunSITE.dk - Supporting Open source
NNTP-Posting-Host: 90.185.218.32
X-Trace: news.sunsite.dk DXC=0L\OKTHg<C52]0d4PBa<C>YSB=nbEKnk;L?
8>K\5E[I;QoGdV]kG`j80P:`QfVhB03KAib\KDO`h2hJ2L1l8hbU1?5P@KQJ1?K7@Uhj=bTEUE7
X-Complaints-To: staff@sunsite.dk
Xref: g2news2.google.com rec.radio.amateur.homebrew:1878
```

K7ITM wrote:
| On Dec 17, 5:33 am, "Ebbe \(7000\)" <es44(snabela)pc[punktum]dk>
| wrote:
| ...
|
|
| Well, I managed to get one package down under 50 grams. Drop me an

| email if interested. My call at msn.com. I tried sending you one,
| but don't know if it got through.
|
| Cheers,
| Tom

Oh yes, Your mail found the right receiver, return mail sent :-)

Best regards
Ebbe

```
From 5696036162257445182
X-Google-Thread: fc2a5,6d7118b26a1f9d68
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
q26g2000prq.googlegroups.com!not-for-mail
From: Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted BC454 bfo coil
Date: Thu, 18 Dec 2008 04:42:02 -0800 (PST)
Organization: http://groups.google.com
Lines: 19
Message-ID: <b6afc7f3-a94a-43db-b5cf-5de236cac0e9@q26g2000prq.googlegroups.com>
References: <Sw_0l.7953$UI2.6555@bignews6.bellsouth.net>
<PeednWs5At2MK9nUnZ2dnUVZ8uGdnZ2d@pipex.net>
NNTP-Posting-Host: 218.215.177.11
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1229604122 31482 127.0.0.1 (18 Dec 2008 12:42:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 18 Dec 2008 12:42:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q26g2000prq.googlegroups.com; posting-host=218.215.177.11;
     posting-account=LRLqpgkAAACt8OsWZnclc0j8ufDGwSA0
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.19)
     Gecko/20081201 Firefox/2.0.0.19,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1582
```

On Dec 14, 6:30 pm, highlandham <rfbu...@nospam.com> wrote:
> ken scharf wrote:
> > Anybody have a BFO coil from a BC454 receiver?
> > I have a homebrew receiver project in mind using some of the
> > 1415 khz IF transformers out of one of these but I don't have
> > the BFO coil.
>
> ======================================
> This being a homebrew NG.......would it not be possible to make the BFO

> coil ,or is it a RF transformer , yourself ?
>
> Frank   KN6WH

Your being a bit precious, surely - he is BUILDING something using
surplus bits.
Do you mine and smelt your own copper wire, then grow the cotton to
insulate it? - if not, well, are you a TRUE homebrewer?

Andrew VK3BFA.

```
From -4160094659863011319
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!r34g2000vbp.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
Date: Thu, 18 Dec 2008 16:30:42 -0800 (PST)
Organization: http://groups.google.com
Lines: 6
Message-ID: <59359661-1448-4fcc-b855-c20cd8a44dca@r34g2000vbp.googlegroups.com>
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
     <EdB1l.16656$uS1.14886@newsfe19.iad> <mVHHgPEIM2RJFADl@ifwtech.co.uk>
     <f286a892-c26b-4e87-b474-cfd5318669d2@z28g2000prd.googlegroups.com>
     <aMCY2+hTsWSJFAdI@ifwtech.co.uk>
NNTP-Posting-Host: 76.226.231.61
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1229646643 1452 127.0.0.1 (19 Dec 2008 00:30:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 19 Dec 2008 00:30:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r34g2000vbp.googlegroups.com; posting-host=76.226.231.61;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1583
```

Delving further I surfed across a twin blade circular saw.
Two counter rotating circular blades that leave no burrs in aluminum.
Makes lots of aluminum waste though.

73 OM
n8zu

```
From -6489847703231028141
```

```
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
a29g2000pra.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
Date: Thu, 18 Dec 2008 16:51:40 -0800 (PST)
Organization: http://groups.google.com
Lines: 42
Message-ID: <cf31fe1d-d5f0-4661-9950-4b2a1140f058@a29g2000pra.googlegroups.com>
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
     <EdB1l.16656$uS1.14886@newsfe19.iad> <mVHHgPEIM2RJFADl@ifwtech.co.uk>
     <f286a892-c26b-4e87-b474-cfd5318669d2@z28g2000prd.googlegroups.com>
     <aMCY2+hTsWSJFAdI@ifwtech.co.uk>
NNTP-Posting-Host: 155.178.5.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229647900 26146 127.0.0.1 (19 Dec 2008 00:51:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 19 Dec 2008 00:51:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a29g2000pra.googlegroups.com; posting-host=155.178.5.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.5)
     Gecko/2008120122 Firefox/3.0.5,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1584

On Dec 17, 4:11=A0pm, Ian White GM3SEK <gm3...@ifwtech.co.uk> wrote:
> JIMMIE wrote:
> >On Dec 16, 3:12=A0am, Ian White GM3SEK <gm3...@ifwtech.co.uk> wrote:
> >>Circular saw blades
> >> for non-ferrous metal cutting are specially designed to reduce the
> >> dangers of jammed blades and flying metal.
>
> >> As well as having many small teeth, the front cutting edge of each too=
th
> >> slopes slightly backward to avoid digging into the soft metal (known a=
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> >> "negative rake"). Also the top profile of each tooth is designed to
> >> remove the metal as small chips.
>
> >> Even negative rake blades are not jam-proof, especially when cutting
> >> through tubing. Half-way through the cut, it becomes very easy to hook=
 a
> >> tooth into the wall of the tube, and BANG - it jams. Larry is very rig=
ht
> >> to be using a jig to hold everything very firmly.
>
> >I also believe in the right tool for the right job too but when I saw
```

> >the $80 USD price tag on the right blade using the wrong one became
> >more appealing.
>
> We can pay those prices for big-name industrial saw blades in Europe
> too. However, a 10in/254mm blade with negative rake carbide teeth can
> also be found for less than $30:http://tinyurl.com/4lflw2
>
> That's not so bad, and I'd guess that someone in the USA is selling them
> too.
>
> --
>
> 73 from Ian GM3SEK

If anyone over here is selling them near that price I can't find them.
I may splurge a bit and get an $80 one.
A big piece of aluminum stuck between my fingers convinced me.

Jimmie

```
From -4385518541180161393
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r2g2000vbp.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
Date: Thu, 18 Dec 2008 18:02:25 -0800 (PST)
Organization: http://groups.google.com
Lines: 51
Message-ID: <6265054f-7d25-4349-8a97-abeb6f340754@r2g2000vbp.googlegroups.com>
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
     <EdB1l.16656$uS1.14886@newsfe19.iad> <mVHHgPEIM2RJFADl@ifwtech.co.uk>
     <f286a892-c26b-4e87-b474-cfd5318669d2@z28g2000prd.googlegroups.com>
     <aMCY2+hTsWSJFAdI@ifwtech.co.uk> <cf31fe1d-
d5f0-4661-9950-4b2a1140f058@a29g2000pra.googlegroups.com>
NNTP-Posting-Host: 76.226.231.61
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1229652145 17222 127.0.0.1 (19 Dec 2008 02:02:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 19 Dec 2008 02:02:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r2g2000vbp.googlegroups.com; posting-host=76.226.231.61;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.5)
     Gecko/20060127 Netscape/8.1,gzip(gfe),gzip(gfe)
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:1882

On Dec 18, 7:51 pm, JIMMIE <jimmi...@gmail.com> wrote:
> On Dec 17, 4:11 pm, Ian White GM3SEK <gm3...@ifwtech.co.uk> wrote:
>
>
>
> > JIMMIE wrote:
> > >On Dec 16, 3:12 am, Ian White GM3SEK <gm3...@ifwtech.co.uk> wrote:
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> > too.
>
> > --
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> > 73 from Ian GM3SEK
>
> If anyone over here is selling them near that price I can't find them.
> I may splurge a bit and get an $80 one.
> A big piece of aluminum stuck between my fingers convinced me.
>
> Jimmie

Hey OM

did you looky at harbor freight tools?

I seen a twin blade circular saw $60 only

73 OM

n8zu

From -5075518420092205752
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!8c40745b!not-for-mail
Reply-To: "Dale Parfitt" <parinc1@verizon.net>
From: "Dale Parfitt" <parinc1@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com> <EdB1l.16656$uS1.14886@newsfe19.iad> <mVHHgPEIM2RJFADl@ifwtech.co.uk> <f286a892-c26b-4e87-b474-cfd5318669d2@z28g2000prd.googlegroups.com> <aMCY2+hTsWSJFAdI@ifwtech.co.uk> <cf31fe1d-d5f0-4661-9950-4b2a1140f058@a29g2000pra.googlegroups.com> <6265054f-7d25-4349-8a97-abeb6f340754@r2g2000vbp.googlegroups.com>
Subject: Re: Cutting non ferrous metals with a table saw
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <wAD2l.532$P5.219@nwrddc02.gnilink.net>
Date: Fri, 19 Dec 2008 02:23:24 GMT
NNTP-Posting-Host: 72.71.99.41
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1229653404 72.71.99.41 (Thu, 18 Dec 2008 21:23:24 EST)
NNTP-Posting-Date: Thu, 18 Dec 2008 21:23:24 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:1586

>> Jimmie
>
> Hey OM
>
> did you looky at harbor freight tools?
>
> I seen a twin blade circular saw $60 only
>
> 73 OM
>
> n8zu

Commercially, we use a triple chip blade. The current blade is almost 10 years old and leaves a mirror finish on the aluminum cut.

Dale W4OP

From -2787895879561644500
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!news1.optus.net.au!optus!
newsfeeder.syd.optusnet.com.au!news.optusnet.com.au!not-for-mail
Date: Fri, 19 Dec 2008 14:47:20 +1100
From: Clifford Heath <no@spam.please.net>
User-Agent: Mozilla-Thunderbird 2.0.0.17 (X11/20081018)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
<EdB1l.16656$uS1.14886@newsfe19.iad> <mVHHgPEIM2RJFADl@ifwtech.co.uk>
In-Reply-To: <mVHHgPEIM2RJFADl@ifwtech.co.uk>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 6
Message-ID: <494b1992$0$32001$afc38c87@news.optusnet.com.au>
NNTP-Posting-Host: 122.107.155.136
X-Trace: 1229658514 32001 122.107.155.136
X-Original-Bytes: 1071
Xref: g2news2.google.com rec.radio.amateur.homebrew:1884

Ian White GM3SEK wrote:
> At last - someone using the right tool for the job

You can get fine-kerf angle-grinder blades, that's what I use.
They need frequent replacement, but for the occasional cut, it
beats a hacksaw.

From 8797248910266422128
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!u14g2000yqg.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
Date: Thu, 18 Dec 2008 23:04:55 -0800 (PST)
Organization: http://groups.google.com
Lines: 24
Message-ID: <6f771a4f-9340-43ae-8774-5cb0109bfaaf@u14g2000yqg.googlegroups.com>
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
    <EdB1l.16656$uS1.14886@newsfe19.iad> <mVHHgPEIM2RJFADl@ifwtech.co.uk>
    <f286a892-c26b-4e87-b474-cfd5318669d2@z28g2000prd.googlegroups.com>
    <aMCY2+hTsWSJFAdI@ifwtech.co.uk> <cf31fe1d-
d5f0-4661-9950-4b2a1140f058@a29g2000pra.googlegroups.com>

```
     <6265054f-7d25-4349-8a97-abeb6f340754@r2g2000vbp.googlegroups.com>
     <wAD2l.532$P5.219@nwrddc02.gnilink.net>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229670295 3095 127.0.0.1 (19 Dec 2008 07:04:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 19 Dec 2008 07:04:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u14g2000yqg.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1885

On Dec 18, 9:23=A0pm, "Dale Parfitt" <pari...@verizon.net> wrote:
> =A0>> Jimmie
>
>
>
> > Hey OM
>
> > did you looky at harbor freight tools?
>
> > I seen a twin blade circular saw $60 only
>
> > 73 OM
>
> > n8zu
>
> Commercially, we use a triple chip blade. The current blade is almost 10
> years old and leaves a mirror finish on the aluminum cut.
>
> Dale W4OP

I just realized I worked 37 hrs of overtime in the last 2 weeks. I
think I am going to treat myself to one of the triple chip blades.

Jimmie


From -2748704860913568456
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
backlog2.nntp.dca.giganews.com!nntp.eclipse.net.uk!news.eclipse.net.uk.POSTED!not-
for-mail
NNTP-Posting-Date: Fri, 19 Dec 2008 09:48:20 -0600
Message-ID: <94wRbmGa97SJFArU@ifwtech.co.uk>
```

```
Date: Fri, 19 Dec 2008 15:35:54 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
 <EdB1l.16656$uS1.14886@newsfe19.iad> <mVHHgPEIM2RJFADl@ifwtech.co.uk>
 <f286a892-c26b-4e87-b474-cfd5318669d2@z28g2000prd.googlegroups.com>
 <aMCY2+hTsWSJFAdI@ifwtech.co.uk>
 <cf31fe1d-d5f0-4661-9950-4b2a1140f058@a29g2000pra.googlegroups.com>
 <6265054f-7d25-4349-8a97-abeb6f340754@r2g2000vbp.googlegroups.com>
 <wAD2l.532$P5.219@nwrddc02.gnilink.net>
 <6f771a4f-9340-43ae-8774-5cb0109bfaaf@u14g2000yqg.googlegroups.com>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=iso-8859-1;format=flowed
Content-Transfer-Encoding: 8bit
User-Agent: Turnpike/6.05-M (<Zd2kz$b1O5M19FKk9B7HHcQDWu>)
Lines: 19
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 91.84.209.172
X-Trace: sv3-
NLpVUYIKBnXcEpCEEi8LmxoVz6QDOeKjMwuzb5RwKKCXXv7w+xz1nVabqN4uTRxV9YCvD/aYmNQ/I3Q!
uJ5oYxt7cO2HuHSQ83N4W2HV53lX77Dj8ElHa7/L0UqfV6lWBQ+CcTCxGFqOwHc3GSLw6jd6eQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Bytes: 2121
Xref: g2news1.google.com rec.radio.amateur.homebrew:1589

JIMMIE wrote:
>On Dec 18, 9:23�pm, "Dale Parfitt" <pari...@verizon.net> wrote:
>>
>> Commercially, we use a triple chip blade. The current blade is almost 10
>> years old and leaves a mirror finish on the aluminum cut.
>>
>> Dale W4OP
>
>I just realized I worked 37 hrs of overtime in the last 2 weeks. I
>think I am going to treat myself to one of the triple chip blades.
>

Yeah, go on... "Because You're Worth It"   :-)


--

73 from Ian GM3SEK
http://www.ifwtech.co.uk/g3sek


From 2962073206865803845
```

```
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!postnews.google.com!
v42g2000yqv.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
Date: Fri, 19 Dec 2008 09:14:59 -0800 (PST)
Organization: http://groups.google.com
Lines: 31
Message-ID: <58ec09e8-cb50-4dea-962e-3ddfc9ea06d9@v42g2000yqv.googlegroups.com>
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
     <EdB1l.16656$uS1.14886@newsfe19.iad> <mVHHgPEIM2RJFADl@ifwtech.co.uk>
     <f286a892-c26b-4e87-b474-cfd5318669d2@z28g2000prd.googlegroups.com>
     <aMCY2+hTsWSJFAdI@ifwtech.co.uk> <cf31fe1d-
d5f0-4661-9950-4b2a1140f058@a29g2000pra.googlegroups.com>
     <6265054f-7d25-4349-8a97-abeb6f340754@r2g2000vbp.googlegroups.com>
     <wAD2l.532$P5.219@nwrddc02.gnilink.net>
NNTP-Posting-Host: 76.226.231.61
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229706899 9346 127.0.0.1 (19 Dec 2008 17:14:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 19 Dec 2008 17:14:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v42g2000yqv.googlegroups.com; posting-host=76.226.231.61;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1590

On Dec 18, 9:23=A0pm, "Dale Parfitt" <pari...@verizon.net> wrote:
> =A0>> Jimmie
>
>
>
> > Hey OM
>
> > did you looky at harbor freight tools?
>
> > I seen a twin blade circular saw $60 only
>
> > 73 OM
>
> > n8zu
>
> Commercially, we use a triple chip blade. The current blade is almost 10
> years old and leaves a mirror finish on the aluminum cut.
>
> Dale W4OP
```

Hey OM
If a twin blade 6.25 inch blade cuts like a 14 inch blade what's a
triple blade cut like?

And can you shave your face with that mirror?
That would make one heck of a disco ceiling mirror ball.

Twin blade is lifetime gaurantee.

73 OM
n8zu

```
From -3738711732281508560
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!k36g2000yqe.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
Date: Fri, 19 Dec 2008 09:20:44 -0800 (PST)
Organization: http://groups.google.com
Lines: 26
Message-ID: <e3c5231d-d72a-468b-a543-4c01e541ade0@k36g2000yqe.googlegroups.com>
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
     <EdB1l.16656$uS1.14886@newsfe19.iad> <mVHHgPEIM2RJFADl@ifwtech.co.uk>
     <f286a892-c26b-4e87-b474-cfd5318669d2@z28g2000prd.googlegroups.com>
     <aMCY2+hTsWSJFAdI@ifwtech.co.uk> <cf31fe1d-
d5f0-4661-9950-4b2a1140f058@a29g2000pra.googlegroups.com>
     <6265054f-7d25-4349-8a97-abeb6f340754@r2g2000vbp.googlegroups.com>
     <wAD2l.532$P5.219@nwrddc02.gnilink.net>
<6f771a4f-9340-43ae-8774-5cb0109bfaaf@u14g2000yqg.googlegroups.com>
     <94wRbmGa97SJFArU@ifwtech.co.uk>
NNTP-Posting-Host: 76.226.231.61
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229707244 10468 127.0.0.1 (19 Dec 2008 17:20:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 19 Dec 2008 17:20:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k36g2000yqe.googlegroups.com; posting-host=76.226.231.61;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1591
```

On Dec 19, 10:35=A0am, Ian White GM3SEK <gm3...@ifwtech.co.uk> wrote:
> JIMMIE wrote:

```
> >On Dec 18, 9:23=A0pm, "Dale Parfitt" <pari...@verizon.net> wrote:
>
> >> Commercially, we use a triple chip blade. The current blade is almost =
10
> >> years old and leaves a mirror finish on the aluminum cut.
>
> >> Dale W4OP
>
> >I just realized I worked 37 hrs of overtime in the last 2 weeks. I
> >think I am going to treat myself to one of the triple chip blades.
>
> Yeah, go on... "Because You're Worth It" =A0 :-)
>
> --
>
> 73 from Ian GM3SEKhttp://www.ifwtech.co.uk/g3sek

Hey OM

Heck just across the pond in Germany they gits 4 month paid vacation
plenty of time to use a diamond fingernail file to cut that aluminum.

73 OM
n8zu



From -3167910067767162834
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!8c40745b!not-for-
mail
Reply-To: "Dale Parfitt" <parinc1@verizon.net>
From: "Dale Parfitt" <parinc1@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
<EdB1l.16656$uS1.14886@newsfe19.iad> <mVHHgPEIM2RJFADl@ifwtech.co.uk> <f286a892-
c26b-4e87-b474-cfd5318669d2@z28g2000prd.googlegroups.com>
<aMCY2+hTsWSJFAdI@ifwtech.co.uk> <cf31fe1d-
d5f0-4661-9950-4b2a1140f058@a29g2000pra.googlegroups.com>
<6265054f-7d25-4349-8a97-abeb6f340754@r2g2000vbp.googlegroups.com>
<wAD2l.532$P5.219@nwrddc02.gnilink.net> <58ec09e8-
cb50-4dea-962e-3ddfc9ea06d9@v42g2000yqv.googlegroups.com>
Subject: Re: Cutting non ferrous metals with a table saw
Lines: 43
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <1SQ2l.19$Es4.2@nwrddc01.gnilink.net>
```

Date: Fri, 19 Dec 2008 17:29:33 GMT
NNTP-Posting-Host: 72.71.99.41
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1229707773 72.71.99.41 (Fri, 19 Dec 2008 12:29:33 EST)
NNTP-Posting-Date: Fri, 19 Dec 2008 12:29:33 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:1592
X-Original-Bytes: 2461

"raypsi" <RBorowiak@gmail.com> wrote in message
news:58ec09e8-cb50-4dea-962e-3ddfc9ea06d9@v42g2000yqv.googlegroups.com...
On Dec 18, 9:23 pm, "Dale Parfitt" <pari...@verizon.net> wrote:
> >> Jimmie
>
>
>
> > Hey OM
>
> > did you looky at harbor freight tools?
>
> > I seen a twin blade circular saw $60 only
>
> > 73 OM
>
> > n8zu
>
> Commercially, we use a triple chip blade. The current blade is almost 10
> years old and leaves a mirror finish on the aluminum cut.
>
> Dale W4OP

Hey OM
If a twin blade 6.25 inch blade cuts like a 14 inch blade what's a
triple blade cut like?

And can you shave your face with that mirror?
That would make one heck of a disco ceiling mirror ball.

Twin blade is lifetime gaurantee.

73 OM
n8zu

It is a single blade- and the triple chip refers to the rake of individual teeth. I think every aluminum house uses a triple chip blade. Not cheap at $150 or so- but as I said, one of our blades is around 10 years old, is used daily and still cuts with a mirror finish.

Dale W4OP

```
From 2065005674334454033
X-Google-Thread: fc2a5,ffb4995423606c03
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!u14g2000yqg.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Doubling
Date: Fri, 19 Dec 2008 10:09:21 -0800 (PST)
Organization: http://groups.google.com
Lines: 22
Message-ID: <4bdd29cc-d41d-4245-b3dd-874dd7376a55@u14g2000yqg.googlegroups.com>
References: <gg7qs402stp@news1.newsguy.com>
<Pine.NEB.4.64.0811230222280.12668@sdf.lonestar.org>
     <53d62848-294c-4264-80f3-68e772536ce4@i24g2000prf.googlegroups.com>
     <6cj1l.8926$5P1.7597@newsfe13.iad> <nSj1l.8928$5P1.2861@newsfe13.iad>
     <B0l1l.1290$fv3.794@newsfe06.iad> <d2b47540-3d78-46bf-8a1f-
e981ad77d300@i18g2000prf.googlegroups.com>
     <N8G1l.9048$5P1.6421@newsfe13.iad>
NNTP-Posting-Host: 76.226.231.61
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229710161 18729 127.0.0.1 (19 Dec 2008 18:09:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 19 Dec 2008 18:09:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u14g2000yqg.googlegroups.com; posting-host=76.226.231.61;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1593

On Dec 15, 11:29=A0pm, "NoSPAM" <unkn...@nospam.org> wrote:
> "Telstar Electronics" <briangrif...@sbcglobal.net> wrote in message
>
> news:d2b47540-3d78-46bf-8a1f-e981ad77d300@i18g2000prf.googlegroups.com...
>
> > You mean to tell me that you take a clean sine wave... pass it
> > through... say a single-ended class A amp... and you can put a tank on
> > the output of that amplifier... and tune for a harmonic? You will get
> > nothing.
>
> Of course you will. =A0No active device is perfect.

Hey OM
The nature of the beast is:
single ended amps produce rich even harmonics
Push Pull amps produce  rich odd harmonics
```

so you can gits odd harmonics from single ended but they are poor like
me.

73 OM
n8zu

From 5092822290750447547
X-Google-Thread: fc2a5,8dec11fcd30661da,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe05.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Full Lattice Filter Design
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <ef83l.10283$zs1.8113@newsfe05.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe05.iad 1229787210 68.229.77.6 (Sat, 20 Dec 2008 15:33:30 UTC)
NNTP-Posting-Date: Sat, 20 Dec 2008 15:33:30 UTC
Organization: Cox
Date: Sat, 20 Dec 2008 10:33:20 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1891

I'm thinking of using the crystals from a few scrapped
Heath HR-10 receivers (cheap half lattice design) in
a cascaded half-lattice or in a full lattice filter for a
receiver project. I've found tons of info on half-lattice
design, but the full lattice info has been a problem--
anyone have any links to articles in the vintage QSTs?
I have the CDs..

Pete

From -6311404516692017789
X-Google-Thread: fc2a5,8dec11fcd30661da
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!u18g2000pro.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Re: Full Lattice Filter Design
Date: Sat, 20 Dec 2008 11:45:40 -0800 (PST)
Organization: http://groups.google.com
Lines: 21
Message-ID: <282362dd-7936-4401-b931-73bae1f377c5@u18g2000pro.googlegroups.com>
References: <ef83l.10283$zs1.8113@newsfe05.iad>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229802341 24347 127.0.0.1 (20 Dec 2008 19:45:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 20 Dec 2008 19:45:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u18g2000pro.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.5)
     Gecko/2008120122 Firefox/3.0.5,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1892
```

On Dec 20, 7:33=A0am, "Tio Pedro" <radioconnect...@cox.net> wrote:

> I'm thinking of using the crystals from a few scrapped
> Heath HR-10 receivers (cheap half lattice design) in
> a cascaded half-lattice or in a full lattice filter for a
> receiver project. I've found tons of info on half-lattice
> design, but the full lattice info has been a problem--
> anyone have any links to articles in the vintage QSTs?
> I have the CDs..
>
> Pete

Hola, Pedro,

I could scan sections about full lattice filters from Zverev and from Van Valkenburg into PDFs, if you're interested. For Van Valkenburg, it's a whole chapter. It would then be left as a "small exercise" to go from their math to what you want. I suspect a Spice simulation would be appropriate.

Cheers,
Tom

```
From -4389821163939014973
X-Google-Thread: fc2a5,8dec11fcd30661da
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe04.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
```

References: <ef83l.10283$zs1.8113@newsfe05.iad> <282362dd-7936-4401-b931-73bae1f377c5@u18g2000pro.googlegroups.com>
Subject: Re: Full Lattice Filter Design
Lines: 33
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <bAc3l.107$sC4.57@newsfe04.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe04.iad 1229804935 68.229.77.6 (Sat, 20 Dec 2008 20:28:55 UTC)
NNTP-Posting-Date: Sat, 20 Dec 2008 20:28:55 UTC
Organization: Cox
Date: Sat, 20 Dec 2008 15:28:45 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1596

"K7ITM" <k7itm@msn.com> wrote in message
news:282362dd-7936-4401-b931-73bae1f377c5@u18g2000pro.googlegroups.com...
On Dec 20, 7:33 am, "Tio Pedro" <radioconnect...@cox.net> wrote:
> I'm thinking of using the crystals from a few scrapped
> Heath HR-10 receivers (cheap half lattice design) in
> a cascaded half-lattice or in a full lattice filter for a
> receiver project. I've found tons of info on half-lattice
> design, but the full lattice info has been a problem--
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> I have the CDs..
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Cheers,
Tom

Hi Tom, nothing that design heavy... I have to work with the parts I have, and was looking for some practical guidance on the subject. I'll have to dig into the old SSB Handbook and see if the QST references will uncover any leads.

Pete k1zjh

```
From 7498487713996832859
X-Google-Thread: fc2a5,30bde57010031c1a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-
me.highwinds-media.com!bigfeed2.bellsouth.net!bignumber.bellsouth.net!
news.bellsouth.net!bignews5.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FA: MOPA 2-Tube Transmitter Instant Junkbox parts assortment
References: <4fcc0d8f-5a41-46e9-be38-c1619125043f@y18g2000yqn.googlegroups.com>
     <dc5059f2-63d7-4818-a518-1d9bb79bd062@y18g2000yqn.googlegroups.com>
     <5a_0l.7945$UI2.3187@bignews6.bellsouth.net>
<4947c1ff$0$20283$607ed4bc@cv.net> <fe0f9c5b-263a-4f54-9350-
f058c09ce17b@o4g2000pra.googlegroups.com>
In-Reply-To: <fe0f9c5b-263a-4f54-9350-f058c09ce17b@o4g2000pra.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 56
Message-ID: <MQd3l.10654$nD1.3083@bignews5.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcboaekooflnkhfjddgjobbbcmckokoagpklda
bknnjjejjlcdffjmgfgffnmhklbjenncmdhcleiijhgcdmikmlciinmnkecjblpallfhahjefbfekj
NNTP-Posting-Date: Sat, 20 Dec 2008 16:54:52 EST
Organization: BellSouth Internet Group
Date: Sat, 20 Dec 2008 17:00:31 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1597

Mike Silva wrote:
> On Dec 16, 9:58 am, "Rick" <rickn...@hotmail.com> wrote:
>> A few years ago someone gave me a box of tube sockets and some 5763s.  I
>> always wondered if they were any good.  So I built up a sloppy little
>> oscillator, running on 7038 and 22 out of 23 of them oscillated.  It takes
>> 17 seconds for a filament to warm up and the circuit to start putting out
>> power.
>> Ok so what next?  I notice in the tube manual, ARRL handbook 1966, that it
>> has 13 watts plate dissipation.  Wow that seems like a lot for a little 9
>> pin tube.  So I built another stage next to the oscillator and a little pi
>> network output and drove the heck out of it.  Only got 3 watts.  Then double
>> checked the voltages since I was running on a variac and lo and behold I
>> only had 5 volts on the filament so cranked her up where she should be and
>> now getting 9 watts into 50 ohms.
>> Then checked the great W8JI website and see where he put some shaping into
>> his DX60 to clean up the clicks so I looked at my output with a scope with
>> my keyer banging away at the thing and ye Gads, a square wave.  So now
>> working on values of a grid block keyer circuit to round off the edges.
>> Fun stuff.
>> Added a socket for an 807.  Wow, got plenty of drive !! 55 watts out with
```

>> 600 volts on the plate. 2nd harmonic 45 db down, not too bad. Total money
>> expended to date - $zero.
>> Anyone like to do something similar? If you need a 5763 and socket just let
>> me know. All I ask is you to really use it, not just throw it in the drawer
>> for some day in the future.
>> Oh by the way. This is just posted to homebrew, don't need to cross post it
>> to the other newsgroups, too much of that going on. Pick the group that it
>> belongs in and they will find it if they are interested.
>> 73,
>> Rick K2XT
>
> About 5 or 6 years ago I think the government must have dumped its
> supply of 5763s since they started showing up by the thousands, 1980s
> manufacture. Since as a kid I had seen lots of articles that used
> them, I quickly bought Too Many. I think everybody I know has at
> least 25 and often 100. Since then I've donated some and sold some
> and used some. It's a very nice little tube, and should last forever
> (+/-) in oscillator or QRP service.
>
> Very interesting to hear how much difference the lower heater voltage
> made. It's tempting these days to just make up a 6.3VDC regulator and
> be done with it.
>
> 73,
> Mike, KK6GM

The 5763 seems to be an original design as opposed to a re-design of an
octal tube into a miniature tube format. I can't find any similar beam
power tubes with a 6.3v .75 amp heater in larger format.
It is amazing just how many miniature tubes are simply re-hashes of a
similar tube in a larger format.

For example, the 6AQ5 is a rehash of the 6V6. The 6BQ5 and 6GK6 are
rehashes of the 6F6 (which itself is a rehash of the 42 and 2A5, and
similar to the directly heated '47). The 6AK6 is a rehash of the 6G6G.
The 6CL6 is a rehash of the 6AG7. I could name many more, and I haven't
even considered the Lockal equalivants either.

From -5565837125817675345
X-Google-Thread: fc2a5,8dec11fcd30661da
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe02.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <ef83l.10283$zs1.8113@newsfe05.iad> <282362dd-7936-4401-b931-73bae1f377c5@u18g2000pro.googlegroups.com> <bAc3l.107$sC4.57@newsfe04.iad>
Subject: Re: Full Lattice Filter Design
Lines: 7
X-Priority: 3
X-MSMail-Priority: Normal

X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <Wzh3l.285$fc3.137@newsfe02.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe02.iad 1229825398 68.229.77.6 (Sun, 21 Dec 2008 02:09:58 UTC)
NNTP-Posting-Date: Sun, 21 Dec 2008 02:09:58 UTC
Organization: Cox
Date: Sat, 20 Dec 2008 21:09:48 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1598

I've figured out to use QST View... Finally! And was able to
dig up quite a few articles from the 50s into the early 60s.
I have enough reading matter to come to some conclusions..

Pete

From 9036253563951950208
X-Google-Thread: fc2a5,faaaf697f63f0721
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 20 Dec 2008 23:13:15 -0600
From: k7elp60 <k7elp60.39385d7@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MC2831
Date: Sun, 21 Dec 2008 02:32:48 +0000
Message-ID: <k7elp60.39385d7@radiobanter.com>
Organization: RadioBanter.com
References: <ghjt4i$ihr$1@panix2.panix.com>
<74KdnYJ0AKoi46DUnZ2dnUVZ_hydnZ2d@giganews.com>
Lines: 46
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-pJaKL50VuF9ARB0yXLX8tAKC4R2h1+dTJh0aIqUCHVgPYb7flmQECxjHipwmdNcH3/
HTHmiO6qGO2Ty!
TFV7gUhhRb8Fq1XXtxD9HVAqUyYPexzsqdkCmeyKH4LnfrpSxIOxTSrP0uOUnfzfgLsBoHwdasDl!TlFS
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Lines: 29
Xref: g2news1.google.com rec.radio.amateur.homebrew:1599

DaveM;658774 Wrote:
> "Scott Dorsey" kludge@panix.com wrote in message

> news:ghjt4i$ihr$1@panix2.panix.com...-
> Not really a boatanchor question, but I am looking for some of the
> old
> Motorola MC2831 FM transmitter chips which were discontinued a decade
> or
> so ago. I'd take one of the MC2833 chips which are similar (they have
> a
> second
> dedicated transistor instead of a tone generator on-chip).   I'd
> prefer
> the DIP package but I'd even take an SMT that I could stick on an
> adaptor.
>
> Anybody got a couple in their junk box?
> --scott
> --
> "C'est un Nagra. C'est suisse, et tres, tres precis."-
>
>
> Consolidated Electronics online catalog says they have the MC2831 in
> stock
> (http://www.ceitron.com/semi/semi.phtml?part=MC2831).
>
> Hth,
> --
> Dave M
> MasonDG44 at comcast dot net (Just substitute the appropriate
> characters in the
> address)
>
> Life is like a roll of toilet paper; the closer it gets to the end, the
> faster
> it goes.

I have one(MC2833N) on a circuit board all wired and working as a 6M FM
transmitter as shown on a Motorola data sheet, would this be of benefit
for you?
Ned
I can be reached via email at autoivins at Q.com

--
k7elp60

From -1525323991322144322
X-Google-Thread: fc2a5,69a1df69e34838f,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m4g2000vbp.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Schematic circuits to browse
Date: Sun, 21 Dec 2008 06:45:33 -0800 (PST)
Organization: http://groups.google.com
Lines: 8
Message-ID: <6340c055-9019-4af0-8fc3-22c4996c8fc8@m4g2000vbp.googlegroups.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1229870734 3139 127.0.0.1 (21 Dec 2008 14:45:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 21 Dec 2008 14:45:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m4g2000vbp.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1897

I found this group of schematic circuits. Many looked interesting

http://www.schematicmag.com/htm1/Sch_cic.html.

Enjoy


Jimmie



From -7814323977912633326
X-Google-Thread: 108122,bec8c143b2a8b16b,start
X-Google-Thread: fc2a5,bec8c143b2a8b16b,start
X-Google-Thread: 107ada,bec8c143b2a8b16b,start
X-Google-Thread: 110c99,bec8c143b2a8b16b,start
X-Google-Thread: 111320,bec8c143b2a8b16b,start
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!u18g2000pro.googlegroups.com!not-for-
mail
From: elvinabr@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: Big Boobs on Parade
Date: Sun, 21 Dec 2008 08:56:18 -0800 (PST)
Organization: http://groups.google.com
Lines: 5
Message-ID: <0b599d6c-9a90-4bac-9b52-94a5c583fa29@u18g2000pro.googlegroups.com>
NNTP-Posting-Host: 94.178.165.210
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1229878578 5531 127.0.0.1 (21 Dec 2008 16:56:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 21 Dec 2008 16:56:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u18g2000pro.googlegroups.com; posting-host=94.178.165.210;
     posting-account=Iq4AEgoAAAAzw2EHegLKObvlQ62MXhS6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor;  Embedded Web Browser from: http://bsalsa.com/; Avant Browser; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:953
rec.radio.amateur.homebrew:1601 rec.radio.amateur.misc:1727 rec.running:5941
rec.scouting.issues:958

http://sosed.smutwebsites.com/  Big Boobs on Parade rulez the world of
Big Boobs! This site offers a categorized selection of the most unique
Free Big Boobs Movies ever filmed. Our team of hard working slaves
picks each and every one of these fine babes warranting the finest big
boobs videos for our fellow surfers



From 3672943405786749001
X-Google-Thread: fc2a5,696d08425b2846c9,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f18g2000vbf.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Radio Shack Pro 2011 scanner schematic
Date: Sun, 21 Dec 2008 10:25:47 -0800 (PST)
Organization: http://groups.google.com
Lines: 13
Message-ID: <8eac5907-d1ed-4cba-bff9-0be68557b4e3@f18g2000vbf.googlegroups.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1229883948 10743 127.0.0.1 (21 Dec 2008 18:25:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 21 Dec 2008 18:25:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f18g2000vbf.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1899

Good afternoon you all, I just got an early Christmas president. My
```

friend dropped off a Radio Shack Pro 2011 scanner a couple of weeks ago for me to take a look at and now he says for me to just keep it. The problem seems to be in the liitle uP board. It will work a while and then just go crazy. I thought maybe it was a power supply problem but even running it from a battery doesnt help. Ive tried replacing caps on the uP board with no help. I had really given up on it but I would like to try one other thing now that its mine. IF I could bet a schematic on the thing I would like to see if I could control the radio from a PC port. I have done this before by bit banging data into the PLL circuit.

If you have a schematic you could email me I would be thankful.

```
From 8087415780132918617
X-Google-Thread: fc2a5,30bde57010031c1a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!v13g2000yqm.googlegroups.com!not-for-
mail
From: Mike Silva <snarflemike@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FA: MOPA 2-Tube Transmitter Instant Junkbox parts assortment
Date: Sun, 21 Dec 2008 11:38:01 -0800 (PST)
Organization: http://groups.google.com
Lines: 90
Message-ID: <f7ac74e2-433c-4e0e-86c8-e222d0feaffe@v13g2000yqm.googlegroups.com>
References: <4fcc0d8f-5a41-46e9-be38-c1619125043f@y18g2000yqn.googlegroups.com>
     <dc5059f2-63d7-4818-a518-1d9bb79bd062@y18g2000yqn.googlegroups.com>
     <5a_0l.7945$UI2.3187@bignews6.bellsouth.net>
<4947c1ff$0$20283$607ed4bc@cv.net>
     <fe0f9c5b-263a-4f54-9350-f058c09ce17b@o4g2000pra.googlegroups.com>
     <MQd3l.10654$nD1.3083@bignews5.bellsouth.net>
NNTP-Posting-Host: 71.3.103.150
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229888281 2679 127.0.0.1 (21 Dec 2008 19:38:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 21 Dec 2008 19:38:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v13g2000yqm.googlegroups.com; posting-host=71.3.103.150;
     posting-account=QgO_5wkAAACZKtAvkb3f1VNDm9C58qLr
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
     .NET CLR 2.0.50727; .NET CLR 3.0.04506; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1603
```

On Dec 20, 5:00=A0pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
> Mike Silva wrote:
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> >> A few years ago someone gave me a box of tube sockets and some 5763s. =

```
=A0I
> >> always wondered if they were any good. =A0So I built up a sloppy littl=
e
> >> oscillator, running on 7038 and 22 out of 23 of them oscillated. =A0It=
 takes
> >> 17 seconds for a filament to warm up and the circuit to start putting =
out
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> >> Ok so what next? =A0I notice in the tube manual, ARRL handbook 1966, t=
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> >> network output and drove the heck out of it. =A0Only got 3 watts. =A0T=
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> >> checked the voltages since I was running on a variac and lo and behold=
 I
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 and
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into
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with
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ow
> >> working on values of a grid block keyer circuit to round off the edges=
.
> >> Fun stuff.
> >> Added a socket for an 807. =A0Wow, got plenty of drive !! 55 watts out=
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tal money
> >> expended to date - $zero.
> >> Anyone like to do something similar? =A0If you need a 5763 and socket =
just let
> >> me know. =A0All I ask is you to really use it, not just throw it in th=
e drawer
> >> for some day in the future.
> >> Oh by the way. =A0This is just posted to homebrew, don't need to cross=
 post it
> >> to the other newsgroups, too much of that going on. =A0Pick the group =
that it
> >> belongs in and they will find it if they are interested.
> >> 73,
> >> Rick =A0K2XT
>
> > About 5 or 6 years ago I think the government must have dumped its
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> > Mike, KK6GM
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>
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> The 6CL6 is a rehash of the 6AG7. I could name many more, and I haven't
> even considered the Lockal equalivants either.- Hide quoted text -
>
> - Show quoted text -

You're right on both counts.  The 5763 is an original design (at
least, I've never seen anything like it in octal), and most of the
first generation miniature tubes were direct or near-direct copies of
existing octal designs.  Only later did the myriad tubes intended for
TV service appear, and to a much smaller degree, the hi-fi tubes.

73,
Mike, KK6GM


From -3973642634127800602
X-Google-Thread: fc2a5,5df8d02d19c25ed6,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w24g2000prd.googlegroups.com!not-for-
mail
From: "Tom, N3IJ" <n3ij@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Raising laptop headphone output to line level
Date: Sun, 21 Dec 2008 11:45:51 -0800 (PST)
Organization: http://groups.google.com
Lines: 10
Message-ID: <c50e4df8-395f-430e-b8ab-dd0ca43c470c@w24g2000prd.googlegroups.com>
NNTP-Posting-Host: 68.33.244.185
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1229888751 25534 127.0.0.1 (21 Dec 2008 19:45:51 GMT)
```

X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 21 Dec 2008 19:45:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w24g2000prd.googlegroups.com; posting-host=68.33.244.185;
     posting-account=DkCicQoAAAARcMzvFC_jtpRYIIdGNZzK
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.60 (Windows NT 5.0; U; en) Presto/
2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1604

Can anyone suggest a source of a circuit or kit for a mono amp to
increase my laptop's headphone output level to line level?

As a starting point, it would be helpful just to learn what these
levels are. I want to drive a line-level transceiver input for digital
hamming.

Any suggestions would be appreciated.

Tnx & 73, Tom

From 523231955305166236
X-Google-Thread: fc2a5,5df8d02d19c25ed6
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!fdn.fr!
feeder.erje.net!news.motzarella.org!motzarella.org!news.motzarella.org!not-for-
mail
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Raising laptop headphone output to line level
Date: Sun, 21 Dec 2008 14:57:03 -0500
Organization: A noiseless patient Spider
Lines: 24
Message-ID: <gim72f$jhb$1@news.motzarella.org>
References: <c50e4df8-395f-430e-b8ab-dd0ca43c470c@w24g2000prd.googlegroups.com>
X-Trace: news.eternal-september.org
U2FsdGVkX1/6jz0b0DXtonsaBzc1BpJyE0g2zKy0YXczI3rYi9p2axKPgDgbHcrE2SVIJyrLD1vefE+1gh
Ef0YczstzC60oHprVTy0iiiU4jwf5CB+XLDfv4tj4687zNhfYMLddcGeQ=
X-Complaints-To: Please send complaints to abuse@motzarella.org with full headers
NNTP-Posting-Date: Sun, 21 Dec 2008 19:57:03 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-Auth-Sender: U2FsdGVkX18cN2GAln3thisHasLyRzzaw8lpFNy33jYy8B1ErZNjYw==
Cancel-Lock: sha1:VQaWFmyhRcrkzsQFY+ZbeOy/POQ=
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:1605

"Tom, N3IJ" <n3ij@comcast.net> wrote in message

news:c50e4df8-395f-430e-b8ab-dd0ca43c470c@w24g2000prd.googlegroups.com...
> Can anyone suggest a source of a circuit or kit for a mono amp to
> increase my laptop's headphone output level to line level?
>
> As a starting point, it would be helpful just to learn what these
> levels are. I want to drive a line-level transceiver input for digital
> hamming.
>
> Any suggestions would be appreciated.
>
> Tnx & 73, Tom

Typically it needs DECREASED not increased. There are circuits on the internet for attenuating the output sound level from the computer to be acceptable to the radio for digital modes. One could potentially use the volume control on the computer but since the level is relatively high, it's hard to get the fine control without an attenuator between the computer and radio.

Dee, N8UZE

From -6998812849921308742
X-Google-Thread: fc2a5,5df8d02d19c25ed6
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2!feeder.erje.net!news2.arglkargh.de!news.albasani.net!not-for-mail
From: No Spam <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Raising laptop headphone output to line level
Date: Sun, 21 Dec 2008 23:13:01 +0000 (UTC)
Organization: albasani.net
Lines: 13
Message-ID: <gimihs$l3n$1@news.albasani.net>
References: <c50e4df8-395f-430e-b8ab-dd0ca43c470c@w24g2000prd.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
X-Trace: news.albasani.net m2LwrWIkwamqROVsAGiENTFDl76bDzC2u2lhKUX3l33SL3kGEIhepi9zYzHPJwzSPAs9/j2H6fIUgoMREMNV1X6r90OFltrJ22unNRzq3CYKaa0u3zotJgsjtnYEVc/n
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Sun, 21 Dec 2008 23:13:01 +0000 (UTC)
X-User-ID: TY0ZMB5vNRpBmzLcgLIWdrKsqQ2Dwjscd7rfdC+B8E0=
Cancel-Lock: sha1:rjZUnnzn0eeDo9cuwAEt3gVgA+s=
X-NNTP-Posting-Host: 6rIaeL+32bQSnBtxKgqtwiNq32NCSi6ii035VZ81VoE=
Xref: g2news2.google.com rec.radio.amateur.homebrew:1903

On Sun, 21 Dec 2008 11:45:51 -0800, Tom, N3IJ wrote:

```
> Can anyone suggest a source of a circuit or kit for a mono amp to
> increase my laptop's headphone output level to line level?
>
> As a starting point, it would be helpful just to learn what these levels
> are. I want to drive a line-level transceiver input for digital hamming.
>
> Any suggestions would be appreciated.

You have an impedance mis-match. Use a radioshack xformer with the 8ohm
side on the headphones jack and the 5k output to the line level. You will
need a pad or simply a pot after that.


From 5476032537828676811
X-Google-Thread: fc2a5,5df8d02d19c25ed6
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g38g2000yqn.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Raising laptop headphone output to line level
Date: Sun, 21 Dec 2008 15:18:13 -0800 (PST)
Organization: http://groups.google.com
Lines: 33
Message-ID: <37a317f9-cc04-4ac6-9c53-245c557c1cb9@g38g2000yqn.googlegroups.com>
References: <c50e4df8-395f-430e-b8ab-dd0ca43c470c@w24g2000prd.googlegroups.com>
     <gim72f$jhb$1@news.motzarella.org>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229901493 10550 127.0.0.1 (21 Dec 2008 23:18:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 21 Dec 2008 23:18:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g38g2000yqn.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1904

On Dec 21, 2:57=A0pm, "Dee Flint" <deeflin...@comcast.net> wrote:
> "Tom, N3IJ" <n...@comcast.net> wrote in message
>
> news:c50e4df8-395f-430e-b8ab-dd0ca43c470c@w24g2000prd.googlegroups.com...
>
> > Can anyone suggest a source of a circuit or kit for a mono amp to
> > increase my laptop's headphone output level to line level?
>
> > As a starting point, it would be helpful just to learn what these
> > levels are. I want to drive a line-level transceiver input for digital
> > hamming.
>
> > Any suggestions would be appreciated.
>
> > Tnx & 73, Tom
>
> Typically it needs DECREASED not increased. =A0There are circuits on the
> internet for attenuating the output sound level from the computer to be
> acceptable to the radio for digital modes. =A0One could potentially use t=
he
> volume control on the computer but since the level is relatively high, it=
's
> hard to get the fine control without an attenuator between the computer a=
nd
> radio.
>
> Dee, N8UZE

I saw something with an 8 ohm resistor from the output of the
soundboard to ground and a 10k resistor from there to the input of a
tape recorder.

Jimmie



From 5150945661684005041
X-Google-Thread: fc2a5,87fcd8a4295b74cb
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!m12g2000vbp.googlegroups.com!not-for-
mail
From: "Tom, N3IJ" <n3ij@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Interface Toughbook Mic Input to Line Out from SWL's PSK20
Date: Sun, 21 Dec 2008 21:26:46 -0800 (PST)
Organization: http://groups.google.com
Lines: 28
Message-ID: <d555423c-4882-4b14-9798-05304bdab9ed@m12g2000vbp.googlegroups.com>
References: <87af20e2-cf37-4334-bfc6-c532ac8b4394@w3g2000yqc.googlegroups.com>
NNTP-Posting-Host: 68.33.244.185
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229923607 12501 127.0.0.1 (22 Dec 2008 05:26:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 22 Dec 2008 05:26:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m12g2000vbp.googlegroups.com; posting-host=68.33.244.185;
     posting-account=DkCicQoAAAARcMzvFC_jtpRYIIdGNZzK
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.60 (Windows NT 5.0; U; en) Presto/
2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1608
```

On Nov 27, 11:35=A0am, "Tom, N3IJ" <n...@comcast.net> wrote:
> I want to interface the audio from the Small Wonder Labs PSK20 to the
> mic input in the Toughbook CF27 laptop. The computer has no line
> input, and I plan to use the mic input via the port replicator. The
> Toughbook reference manual doesn't give any specs for the mic input.
> The user manual does contain this caution:
>
> "Use only a monaural condenser microphone (miniature jack). Using
> an input source other than a monaural condenser microphone
> may not allow audio to be input or may damage the equipment."
>
> Reading suggests that an L pad in the 40-60 dB range is required, but
> I would like to narrow this down before experimenting. Any experiences
> using the Toughbook on PSK would be helpful.
>
> Thanks, Tom, N3IJ

What I ended up with is an L-pad with 10K in series with the input and 100 across the output. This is supposed to be a 40dB pad. I may need something in the high 30s instead of 40, because to get a satisfactory waterfall, I need to max the mic gain in Windows 2K. Tomorrow I'll get a 5K pot and connect it in series with a 5K resistor in place of the current 10K resistor. 8-9K might be where I need to be to have the Windows level control somewhere in the middle of its range.

Thanks to all for the suggestions.

Tom

From 8956111863309832484
X-Google-Thread: fc2a5,f8aacb18f2367a53,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000vbe.googlegroups.com!not-for-mail
From: fazamy <fazamy@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Rig Response 3 , expected 38
Date: Sun, 21 Dec 2008 21:32:55 -0800 (PST)
Organization: http://groups.google.com
Lines: 11
Message-ID: <9f8a03d9-db46-441f-aece-75c28afe3400@e3g2000vbe.googlegroups.com>
NNTP-Posting-Host: 68.161.127.217
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1229923975 13746 127.0.0.1 (22 Dec 2008 05:32:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 22 Dec 2008 05:32:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000vbe.googlegroups.com; posting-host=68.161.127.217;

posting-account=fhjp8woAAACjooYbCZGv8loJZMngOnKX
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.1)
Gecko/2008070208 Firefox/3.0.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1906

I've posted this on the XmLog group without a response explaining the meaning of this message: "Rig Response 3 , expected 38." Attempting to configure a so-called virtual com port from a freeware program so that I can run that log software on a discrete port, I get that message. What is 3? And if 38 is the optimal figure, how do I get to 38?

Is there nyone in this group who can explain this?

Thanks & 73,
Evan

From 261609081945087541
X-Google-Thread: fc2a5,5df8d02d19c25ed6
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe13.iad.POSTED!7564ea0f!not-for-mail
From: "Larry Gauthier \(K8UT\)" <MyCallsign@ARRL.NET>
Newsgroups: rec.radio.amateur.homebrew
References: <c50e4df8-395f-430e-b8ab-dd0ca43c470c@w24g2000prd.googlegroups.com>
Subject: Re: Raising laptop headphone output to line level
Lines: 25
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <SEK3l.73116$5P1.53498@newsfe13.iad>
NNTP-Posting-Host: lfofhnglmmpaloopdgpdjlklegbcecnk
X-Complaints-To: abuse@charter.net
X-Trace:
jkfjokholhdhgpccfkhgnhldfhiklkalhbnhppgceofpjhaplfofhnglmmpaloopkiofidakjcepaaimoj
ppajjmbaenmdligdogmpfpenaaojaecahhjkcbmcbcbkbebgjklipccefckbgb
NNTP-Posting-Date: Mon, 22 Dec 2008 11:14:58 UTC
Date: Mon, 22 Dec 2008 06:14:56 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1610

Tom,

I'm not using a laptop, but my desktop has sufficient audio output to drive line-in levels on the rear of Icom transceivers. If your laptop does not produce high enough levels (see other responses about impedance matching), it might be cheaper and "cleaner" to buy a little USB audio sound card (Turtle Beach has one for $30, about the size of a thumb drive) and grab

audio output from that.
--
-larry
K8UT
"Tom, N3IJ" <n3ij@comcast.net> wrote in message
news:c50e4df8-395f-430e-b8ab-dd0ca43c470c@w24g2000prd.googlegroups.com...
> Can anyone suggest a source of a circuit or kit for a mono amp to
> increase my laptop's headphone output level to line level?
>
> As a starting point, it would be helpful just to learn what these
> levels are. I want to drive a line-level transceiver input for digital
> hamming.
>
> Any suggestions would be appreciated.
>
> Tnx & 73, Tom

From 8118996445387365619
X-Google-Thread: fc2a5,5df8d02d19c25ed6
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe08.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <c50e4df8-395f-430e-b8ab-dd0ca43c470c@w24g2000prd.googlegroups.com>
<gimihs$l3n$1@news.albasani.net>
Subject: Re: Raising laptop headphone output to line level
Lines: 30
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <GfO3l.483$an4.52@newsfe08.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe08.iad 1229959270 68.229.77.6 (Mon, 22 Dec 2008 15:21:10 UTC)
NNTP-Posting-Date: Mon, 22 Dec 2008 15:21:10 UTC
Organization: Cox
Date: Mon, 22 Dec 2008 10:21:09 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1908

"No Spam" <nospam@nospam.com> wrote in message
news:gimihs$l3n$1@news.albasani.net...
> On Sun, 21 Dec 2008 11:45:51 -0800, Tom, N3IJ wrote:
>
>> Can anyone suggest a source of a circuit or kit for a mono amp to

>> increase my laptop's headphone output level to line level?
>>
>> As a starting point, it would be helpful just to learn what these levels
>> are. I want to drive a line-level transceiver input for digital hamming.
>>
>> Any suggestions would be appreciated.
>
> You have an impedance mis-match. Use a radioshack xformer with the 8ohm
> side on the headphones jack and the 5k output to the line level. You will
> need a pad or simply a pot after that.

An impedance mismatch in this case only equates to a possible power loss.
The transformer (I think RS only offers a 600:600 ohm line transformer)
is good because it offers some isolation between the equipment.

Is your laptop audio stereo or mono? You'll have to take that into
consideration,
since you don't want to short on of the channels using a mono plug.
If stereo, you will need to work up some sort of passive mixer
(resistors would do it) to combine the two channels.

Pete

From 525400236756161764
X-Google-Thread: fc2a5,f8aacb18f2367a53
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.cse.ohio-state.edu!
pitt.edu!egsner!news.cirr.com!freeshell.org!sdog2008
From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Rig Response 3 , expected 38
Date: Mon, 22 Dec 2008 16:34:26 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 73
Message-ID: <Pine.NEB.4.64.0812221626260.7004@sdf.lonestar.org>
References: <9f8a03d9-db46-441f-aece-75c28afe3400@e3g2000vbe.googlegroups.com>
NNTP-Posting-Host: freeshell.org
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: chessie.cirr.com 1229963670 23710 192.94.73.30 (22 Dec 2008 16:34:30 GMT)
X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Mon, 22 Dec 2008 16:34:30 +0000 (UTC)
In-Reply-To: <9f8a03d9-db46-441f-aece-75c28afe3400@e3g2000vbe.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1612

On Sun, 21 Dec 2008, fazamy wrote:

> Date: Sun, 21 Dec 2008 21:32:55 -0800 (PST)

> From: fazamy <fazamy@aol.com>
> Newsgroups: rec.radio.amateur.homebrew
> Subject: Rig Response 3 , expected 38
>
> I've posted this on the XmLog group without a response explaining the meaning of this message: "Rig Response 3 , expected 38." Attempting to configure a so-called virtual com port from a freeware program so that I can run that log software on a discrete port, I get that message. What is 3? And if 38 is the optimal figure, how do I get to 38?
>
> Is there nyone in this group who can explain this?
>
> Thanks & 73,
> Evan
>

It would help if you listed critical details like:

1. what is the name of the application.
2. its version number.
3. whether the documentation specifies what kind of operating system it needs, what kind of hardware is a pre-requisit. And, whether there is a "readme" file with description of issues.
4. what OS you actually are using.
5. whether you attempted to contact the source of the software for an answer.
6. whether the com port is specifiable from the software.
7. does the com port hardware actually exist and correspond to what is configurable from the software.
8. and out of curiosity, what is supposed to go in or out of the com port in this "logging" software? And, what is it supposed to connect with?
9. did you buy the software or get it from someone else who has it working? (ask them for help?).

That is for starters.

```
From -6311257876451303590
X-Google-Thread: fc2a5,696d08425b2846c9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!postnews.google.com!
x14g2000yqk.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio Shack Pro 2011 scanner schematic
Date: Mon, 22 Dec 2008 09:33:41 -0800 (PST)
Organization: http://groups.google.com
Lines: 27
Message-ID: <eb8e9b49-5957-48ed-a844-dbdc667e64ef@x14g2000yqk.googlegroups.com>
References: <8eac5907-d1ed-4cba-bff9-0be68557b4e3@f18g2000vbf.googlegroups.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229967221 16017 127.0.0.1 (22 Dec 2008 17:33:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 22 Dec 2008 17:33:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x14g2000yqk.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1910
```

On Dec 21, 1:25=A0pm, JIMMIE <jimmi...@gmail.com> wrote:

> Good afternoon you all, I just got an early Christmas president. My
> friend dropped off a Radio Shack Pro 2011 scanner =A0a couple of weeks
> ago for me to take a look at and now he says for me to just keep it.
> The problem seems to be in the liitle uP board. It will work a while
> and then just go crazy. I thought maybe it was a power supply problem

> but even running it from a battery doesnt help. Ive tried replacing
> caps on the uP board with no help. I had really given up on it but I
> would like to try one other thing now that its mine. IF I could bet a
> schematic on the thing I would like to see if I could control the
> radio from a PC port. I have done this before by bit banging data into
> the PLL circuit.
>
> If you have a schematic you could email me I would be thankful.

Hey I found the problem. The little board isnt a uP board after all. I thought the big glob of epoxy on it was encapsulating a uP. Apparently its just a keyboard matrix with the decoding done on the main board. I found some really bad cold soder joints that connected the keypad to the main board. When I pulled the wires loose they had no solder on them at all. Called my friend and told him to come get it and he still said it was mine. I would still like a schematic or sevice manual for it. Does anyone know how old it is. Also I think GRE made the radio and also sold the radio under their name. Does anyone know which model that was.

Jimmie

From -2284192312998649747
X-Google-Thread: fc2a5,5df8d02d19c25ed6
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!y1g2000pra.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Raising laptop headphone output to line level
Date: Mon, 22 Dec 2008 10:46:11 -0800 (PST)
Organization: http://groups.google.com
Lines: 24
Message-ID: <f74b3c5e-5806-4b12-b790-6f09679f0960@y1g2000pra.googlegroups.com>
References: <c50e4df8-395f-430e-b8ab-dd0ca43c470c@w24g2000prd.googlegroups.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229971571 17984 127.0.0.1 (22 Dec 2008 18:46:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 22 Dec 2008 18:46:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y1g2000pra.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1911

On Dec 21, 2:45=A0pm, "Tom, N3IJ" <n...@comcast.net> wrote:

> Can anyone suggest a source of a circuit or kit for a mono amp to
> increase my laptop's headphone output level to line level?
>
> As a starting point, it would be helpful just to learn what these
> levels are. I want to drive a line-level transceiver input for digital
> hamming.
>
> Any suggestions would be appreciated.

Line Level for consumer audio is -10dBV or 0.316V RMS or just below a
volt peak-to-peak. Solid state audio equipment typically has an input
impedance in the kohm range.

Usually a headphone jack has more than enough output. Some sound cards
or laptops are "energy smart" and turn off the output if they don't
see a low-impedance load plugged in. Other times they have their own
volume controls that can be overridden by Windows and sound card
settings. Other times common-mode noise can dominate (drowning out the
signal) giving a very real advantage to using an isolation
transformer. There are many many articles on the web about using
isolation transformers to hook your computer to your radio.

Tim N3QE

From -7120396643766400032
X-Google-Thread: fc2a5,f8aacb18f2367a53
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Rig Response 3 , expected 38
Date: 22 Dec 2008 22:08:30 GMT
Lines: 40
Message-ID: <slrngl03uu.mos.bit-bucket@shell.config.com>
References: <9f8a03d9-db46-441f-aece-75c28afe3400@e3g2000vbe.googlegroups.com>
<Pine.NEB.4.64.0812221626260.7004@sdf.lonestar.org>
X-Trace: individual.net ikq/tfsOcv4SUK5KD0tVhgp+u49jtiSfnCI2cHRYd/yN6m7j5V
Cancel-Lock: sha1:4uK0upT9SIK1YZR5Oi/rJyaHyXw=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1912

On Mon, 22 Dec 2008 16:34:26 +0000, Stray Dog wrote:
> On Sun, 21 Dec 2008, fazamy wrote:
>
>> Date: Sun, 21 Dec 2008 21:32:55 -0800 (PST)
>> From: fazamy <fazamy@aol.com>
>> Newsgroups: rec.radio.amateur.homebrew
>> Subject: Rig Response 3 , expected 38
>>
>> I've posted this on the XmLog group without a response explaining the

```
>> meaning of this message:  "Rig Response 3 , expected 38." Attempting
>> to configure a so-called virtual com port from a freeware program so
>> that I can run that log software on a discrete port, I get that
>> message.  What is 3?  And if 38 is the optimal figure, how do I get to
>> 38?
>>
>> Is there nyone in this group who can explain this?
>
> It would help if you listed critical details like:
>
> 1. what is the name of the application.
> 2. its version number.
> 3. whether the documentation specifies what kind of operating system it
>    needs, what kind of hardware is a pre-requisit. And, whether there
>    is a "readme" file with description of issues.
> 4. what OS you actually are using.
> 5. whether you attempted to contact the source of the software for an
>    answer.
> 6. whether the com port is specifiable from the software.
> 7. does the com port hardware actually exist and correspond to what is
>    configurable from the software.
> 8. and out of curiosity, what is supposed to go in or out of the com port
>    in this "logging" software? And, what is it supposed to connect with?
> 9. did you buy the software or get it from someone else who has it
>    working? (ask them for help?).
>
> That is for starters.

Really?

 0.5. What does this have to do with homebrew?
```

```
From 265653351772590820
X-Google-Thread: fc2a5,30bde57010031c1a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews2.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FA: MOPA 2-Tube Transmitter Instant Junkbox parts assortment
References: <4fcc0d8f-5a41-46e9-be38-c1619125043f@y18g2000yqn.googlegroups.com>
     <dc5059f2-63d7-4818-a518-1d9bb79bd062@y18g2000yqn.googlegroups.com>
     <5a_0l.7945$UI2.3187@bignews6.bellsouth.net>
<4947c1ff$0$20283$607ed4bc@cv.net>   <fe0f9c5b-263a-4f54-9350-
f058c09ce17b@o4g2000pra.googlegroups.com>
<MQd3l.10654$nD1.3083@bignews5.bellsouth.net> <f7ac74e2-433c-4e0e-86c8-
e222d0feaffe@v13g2000yqm.googlegroups.com>
```

In-Reply-To: <f7ac74e2-433c-4e0e-86c8-e222d0feaffe@v13g2000yqm.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 72
Message-ID: <rEV3l.11541$dc4.4642@bignews2.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcboncdlhfmffbmehjglabfapeepnpfngoaeda
bknnjjejjlcdffllibfpmdpgedmhplncmdhcleiijhgcdmcfjjpfnphemgcfkfkckonbdakjeedbgi
NNTP-Posting-Date: Mon, 22 Dec 2008 18:45:27 EST
Organization: BellSouth Internet Group
Date: Mon, 22 Dec 2008 18:52:40 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1913

Mike Silva wrote:
> On Dec 20, 5:00 pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
>> Mike Silva wrote:
>>> On Dec 16, 9:58 am, "Rick" <rickn...@hotmail.com> wrote:
>>>> A few years ago someone gave me a box of tube sockets and some 5763s. I
>>>> always wondered if they were any good. So I built up a sloppy little
>>>> oscillator, running on 7038 and 22 out of 23 of them oscillated. It takes
>>>> 17 seconds for a filament to warm up and the circuit to start putting out
>>>> power.
>>>> Ok so what next? I notice in the tube manual, ARRL handbook 1966, that it
>>>> has 13 watts plate dissipation. Wow that seems like a lot for a little 9
>>>> pin tube. So I built another stage next to the oscillator and a little pi
>>>> network output and drove the heck out of it. Only got 3 watts. Then double
>>>> checked the voltages since I was running on a variac and lo and behold I
>>>> only had 5 volts on the filament so cranked her up where she should be and
>>>> now getting 9 watts into 50 ohms.
>>>> Then checked the great W8JI website and see where he put some shaping into
>>>> his DX60 to clean up the clicks so I looked at my output with a scope with
>>>> my keyer banging away at the thing and ye Gads, a square wave. So now
>>>> working on values of a grid block keyer circuit to round off the edges.
>>>> Fun stuff.
>>>> Added a socket for an 807. Wow, got plenty of drive !! 55 watts out with
>>>> 600 volts on the plate. 2nd harmonic 45 db down, not too bad. Total money
>>>> expended to date - $zero.
>>>> Anyone like to do something similar? If you need a 5763 and socket just let
>>>> me know. All I ask is you to really use it, not just throw it in the drawer
>>>> for some day in the future.
>>>> Oh by the way. This is just posted to homebrew, don't need to cross post it
>>>> to the other newsgroups, too much of that going on. Pick the group that it
>>>> belongs in and they will find it if they are interested.
>>>> 73,
>>>> Rick K2XT
>>> About 5 or 6 years ago I think the government must have dumped its
>>> supply of 5763s since they started showing up by the thousands, 1980s
>>> manufacture. Since as a kid I had seen lots of articles that used
>>> them, I quickly bought Too Many. I think everybody I know has at
>>> least 25 and often 100. Since then I've donated some and sold some
>>> and used some. It's a very nice little tube, and should last forever

```
>>> (+/-) in oscillator or QRP service.
>>> Very interesting to hear how much difference the lower heater voltage
>>> made.  It's tempting these days to just make up a 6.3VDC regulator and
>>> be done with it.
>>> 73,
>>> Mike, KK6GM
>> The 5763 seems to be an original design as opposed to a re-design of an
>> octal tube into a miniature tube format.  I can't find any similar beam
>> power tubes with a 6.3v .75 amp heater in larger format.
>> It is amazing just how many miniature tubes are simply re-hashes of a
>> similar tube in a larger format.
>>
>> For example, the 6AQ5 is a rehash of the 6V6.  The 6BQ5 and 6GK6 are
>> rehashes of the 6F6 (which itself is a rehash of the 42 and 2A5, and
>> similar to the directly heated '47).  The 6AK6 is a rehash of the 6G6G.
>> The 6CL6 is a rehash of the 6AG7. I could name many more, and I haven't
>> even considered the Lockal equalivants either.- Hide quoted text -
>>
>> - Show quoted text -
>
> You're right on both counts.  The 5763 is an original design (at
> least, I've never seen anything like it in octal), and most of the
> first generation miniature tubes were direct or near-direct copies of
> existing octal designs.  Only later did the myriad tubes intended for
> TV service appear, and to a much smaller degree, the hi-fi tubes.
>
> 73,
> Mike, KK6GM
Most of the 'HiFi' tubes were better build versions of existing tubes.
The improvements reduced hum by shielding G1 better from the heater, and
also reduced microphonics by simply building the tubes more rigid and
rugged ("like a brick s@#T house").  They were probably tested better
too, with the ones not making the grade re-branded with the part number
of the original lower grade type.


From 1450010058846639240
X-Google-Thread: fc2a5,51c4c67dfee0d3ea,start
X-Google-Thread: 107ada,51c4c67dfee0d3ea,start
X-Google-Thread: 111320,51c4c67dfee0d3ea,start
X-Google-Attributes: gidfc2a5,gid107ada,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w1g2000prm.googlegroups.com!not-for-
mail
From: elvinabr@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: Lesbians cuple USA
Date: Wed, 24 Dec 2008 14:26:47 -0800 (PST)
Organization: http://groups.google.com
Lines: 1
Message-ID: <0a03888d-57a5-448b-9960-f16acba72abf@w1g2000prm.googlegroups.com>
```

```
NNTP-Posting-Host: 92.112.159.148
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1230157607 1593 127.0.0.1 (24 Dec 2008 22:26:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 24 Dec 2008 22:26:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w1g2000prm.googlegroups.com; posting-host=92.112.159.148;
     posting-account=Iq4AEgoAAAAzw2EHegLKObvlQ62MXhS6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor;  Embedded Web Browser from: http://bsalsa.com/; Avant Browser; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:956
rec.radio.amateur.homebrew:1620 rec.radio.amateur.misc:1787 rec.running:6035
rec.scouting.issues:963
```

Lesbi cuple want sex right now http://lesbicouple.pornblink.com/

```
From 6949189338175701114
X-Google-Thread: fc2a5,d20a0bf6c6d96187,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news3
From: Bill M <radioexray@geemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Directly heated tube, cathode bias
Date: Wed, 24 Dec 2008 21:58:09 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 14
Message-ID: <giupbk0gnv@news3.newsguy.com>
NNTP-Posting-Host: p14d1bfbfff00000011b4ca8178c42f995e0853484e3ba9c3.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1621
```

I'm a little confused again.

Setting up a 1624 tube for cathode biasing and also need to create a center tap for keying to ground.

The book says 610 ohms at my voltage. So would I use a pair of 1200 ohm resistors in this case?

My logic is since there is not a separate cathode then the two R in parallel would raise the filament 'cathode' 600 ohms above B-minus.

TIA and Merry Christmas,

Bill

```
From -8823101677592482357
X-Google-Thread: fc2a5,d20a0bf6c6d96187
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 25 Dec 2008 00:16:59 -0600
Date: Wed, 24 Dec 2008 22:17:10 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Directly heated tube, cathode bias
References: <giupbk0gnv@news3.newsguy.com>
In-Reply-To: <giupbk0gnv@news3.newsguy.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <JOKdndxVR-3GuM7UnZ2dnUVZ_hOdnZ2d@web-ster.com>
Lines: 35
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
shYcmQr9BHIKKlxv51ui+7XkxXQ2iBHJsb9R80JspjPmYJM2b1ofXosxvqhIdPWlsU2twrsBxwC+jMO!
wlipINMiQRX5uMG8JAVuSAkNaXWUGVB1yqTYNqCdPYJjh5Xs6tzeZ1mpt0rfihQvvrefruVTogDp!
hSArlqIwdMTZlR0=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1622
```

Bill M wrote:

> I'm a little confused again.
>
> Setting up a 1624 tube for cathode biasing and also need to create a
> center tap for keying to ground.
>
> The book says 610 ohms at my voltage. So would I use a pair of 1200 ohm
> resistors in this case?
>
> My logic is since there is not a separate cathode then the two R in
> parallel would raise the filament 'cathode' 600 ohms above B-minus.
>
> TIA and Merry Christmas,
>
> Bill

(Disclaimer -- I haven't done this. It's just knowledge gotten from lots of books, and lots of solid-state circuit design experience).

No, because all the filament voltage will go to mildly heating up the resistors, and none will go to wildly heating up the filament.

Use a center-tapped filament transformer, and put the 600 ohm resistor between its center tap and ground. If necessary, use a separate transformer just for the 1624s.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From 1541574423869865370
X-Google-Thread: fc2a5,d20a0bf6c6d96187
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews6.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Directly heated tube, cathode bias
References: <giupbk0gnv@news3.newsguy.com>
In-Reply-To: <giupbk0gnv@news3.newsguy.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 28
Message-ID: <N4O4l.13124$UI2.10089@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcboleffpceacadpjdababfapeepnpfngoaeda
bknnjjejjlcdffempecfgcmfnigpimncmdhcleiijhgcdmkehgepnbnnkaocfakckonbdakjeedbgi
NNTP-Posting-Date: Thu, 25 Dec 2008 10:58:37 EST
Organization: BellSouth Internet Group
Date: Thu, 25 Dec 2008 11:00:55 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1920
```

Bill M wrote:
> I'm a little confused again.
>

> Setting up a 1624 tube for cathode biasing and also need to create a
> center tap for keying to ground.
>
> The book says 610 ohms at my voltage. So would I use a pair of 1200 ohm
> resistors in this case?
>
> My logic is since there is not a separate cathode then the two R in
> parallel would raise the filament 'cathode' 600 ohms above B-minus.
>
> TIA and Merry Christmas,
>
> Bill

If the tube filament is running on AC then a resistor from the
transformer winding center tap to ground would do the job. If the
filament winding isn't center tapped, then two resistors form the center
tap. Usually two low ohm resistors (say 22 ohms) are used with a third
resistor to ground for the cathode bias from the junction of the two
resistors.
You could just use two larger resistors as you suggest, but in the case
of an audio amplifier how would you bypass it with a capacitor? (use TWO
capacitors).

If the tube filament is running on AC then the problem is compounded
since you might not be able to isolate the filament supply from ground.
Guess battery operated radios used C batteries.

From -8221726407241797402
X-Google-Thread: fc2a5,d20a0bf6c6d96187
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews6.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Directly heated tube, cathode bias
References: <giupbk0gnv@news3.newsguy.com> <JOKdndxVR-3GuM7UnZ2dnUVZ_hOdnZ2d@web-
ster.com>
In-Reply-To: <JOKdndxVR-3GuM7UnZ2dnUVZ_hOdnZ2d@web-ster.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 32
Message-ID: <t7O4l.13126$UI2.1453@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcboddnckdbkaiaoiogcbknbjjcmonkcfibada
bknnjjejjlcdffempecfgcmfnigpimncmdhcleiijhgcdmpcjbijhddgmhlbafpiemmhgefmiapjod
NNTP-Posting-Date: Thu, 25 Dec 2008 11:01:29 EST

```
Organization: BellSouth Internet Group
Date: Thu, 25 Dec 2008 11:03:48 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1921

Tim Wescott wrote:
> Bill M wrote:
>> I'm a little confused again.
>>
>> Setting up a 1624 tube for cathode biasing and also need to create a
>> center tap for keying to ground.
>>
>> The book says 610 ohms at my voltage.  So would I use a pair of 1200
>> ohm resistors in this case?
>>
>> My logic is since there is not a separate cathode then the two R in
>> parallel would raise the filament 'cathode' 600 ohms above B-minus.
>>
>> TIA and Merry Christmas,
>>
>> Bill
>
> (Disclaimer -- I haven't done this.  It's just knowledge gotten from
> lots of books, and lots of solid-state circuit design experience).
>
> No, because all the filament voltage will go to mildly heating up the
> resistors, and none will go to wildly heating up the filament.
>
> Use a center-tapped filament transformer, and put the 600 ohm resistor
> between its center tap and ground.  If necessary, use a separate
> transformer just for the 1624s.
>
If his un-centertapped filament winding is ONLY supplying that one tube
and he has each leg going to ground through a 1200 ohm resistor that
would result in a 600 ohm connection to ground.  So it should work.
Remember that's 2400 ohms across the filament, it won't suck up much
heater current at all.


From 1284298578651581321
X-Google-Thread: fc2a5,c022b489567f3664,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!u18g2000pro.googlegroups.com!not-for-
mail
From: swapu <swapna_kolluru@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: capacitor
Date: Thu, 25 Dec 2008 08:06:38 -0800 (PST)
Organization: http://groups.google.com
Lines: 7
Message-ID: <fce61c84-61f5-4a61-b899-829cf3f82deb@u18g2000pro.googlegroups.com>
NNTP-Posting-Host: 123.201.75.196
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1230221198 29614 127.0.0.1 (25 Dec 2008 16:06:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 25 Dec 2008 16:06:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u18g2000pro.googlegroups.com; posting-host=123.201.75.196;
     posting-account=huBkBgoAAADfSllYVs6LE-6dfeZQXNnG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.18)
     Gecko/20081029 Firefox/2.0.0.18,gzip(gfe),gzip(gfe)
X-HTTP-Via: 1.1 viz-cac01 (NetCache NetApp/6.0.6)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1922
```

A capacitor is an electrical/electronic device that can store energy in the electric field between a pair of conductors (called "plates"). The process of storing energy in the capacitor is known as "charging", and involves electric charges of equal magnitude, but opposite polarity, building up on each plate.

http://electronicstopics.blogspot.com/2008/10/capacitor.html

```
From 4103943862211283241
X-Google-Thread: fc2a5,d20a0bf6c6d96187
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe10.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <giupbk0gnv@news3.newsguy.com>
Subject: Re: Directly heated tube, cathode bias
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <1dP4l.3441$Uk3.619@newsfe10.iad>
NNTP-Posting-Host: 68.229.77.6
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe10.iad 1230225341 68.229.77.6 (Thu, 25 Dec 2008 17:15:41 UTC)
NNTP-Posting-Date: Thu, 25 Dec 2008 17:15:41 UTC
Organization: Cox
Date: Thu, 25 Dec 2008 12:15:37 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1923
```

"Bill M" <radioexray@geemail.com> wrote in message
news:giupbk0gnv@news3.newsguy.com...

> I'm a little confused again.

>
> Setting up a 1624 tube for cathode biasing and also need to create a
> center tap for keying to ground.
>
> The book says 610 ohms at my voltage. So would I use a pair of 1200 ohm
> resistors in this case?
>

Correct, both resistors would essentially be in parallel, and from
the hot cathode to ground. Using two resistors would help
balance out the 60 cycle hum as an added benefit, which is
what I assume you're trying to accomplish.

Pete

From -8896209139703026860
X-Google-Thread: fc2a5,d20a0bf6c6d96187
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k36g2000pri.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Directly heated tube, cathode bias
Date: Thu, 25 Dec 2008 09:46:57 -0800 (PST)
Organization: http://groups.google.com
Lines: 28
Message-ID: <1f42d213-5a49-4d5e-8ad3-8ba7a03036e0@k36g2000pri.googlegroups.com>
References: <giupbk0gnv@news3.newsguy.com>
NNTP-Posting-Host: 76.226.231.61
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1230227217 14951 127.0.0.1 (25 Dec 2008 17:46:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 25 Dec 2008 17:46:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k36g2000pri.googlegroups.com; posting-host=76.226.231.61;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.17)
     Gecko/20080829 Firefox/2.0.0.17,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1627

On Dec 24, 8:58 pm, Bill M <radioex...@geemail.com> wrote:
> I'm a little confused again.
>
> Setting up a 1624 tube for cathode biasing and also need to create a
> center tap for keying to ground.

>
> The book says 610 ohms at my voltage. So would I use a pair of 1200 ohm
> resistors in this case?
>
> My logic is since there is not a separate cathode then the two R in
> parallel would raise the filament 'cathode' 600 ohms above B-minus.
>
> TIA and Merry Christmas,
>
> Bill

hey OM:

Exactly and you will need at least 10 watts of resistors to be safe. Because they also will have to handle plate, grid1, grid2, and the current they draw across the filament. I suppose if they where wire wound like 25 watt you could stick a ferrite rod in their hole and make them your filament chokes also. But if you use carbon comp resistors then part of your drive will go heating those resistors, so not much gain going on there.

73 OM
n8zu

From 4097330596943956840
X-Google-Thread: fc2a5,c022b489567f3664
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ITALIAN,ASCII
Path: g2news1.google.com!news4.google.com!news.germany.com!newsfeed01.sul.t-online.de!newsfeed00.sul.t-online.de!t-online.de!tiscali!newsfeed1.ip.tiscali.net!draco.tiscalinet.it!news-f2.tiscali.it!not-for-mail
Date: Thu, 25 Dec 2008 19:24:32 +0100
From: "i3hev, mario" <marioheld@tiscali.it>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, eo, it
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: capacitor
References: <fce61c84-61f5-4a61-b899-829cf3f82deb@u18g2000pro.googlegroups.com>
In-Reply-To: <fce61c84-61f5-4a61-b899-829cf3f82deb@u18g2000pro.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 15
Message-ID: <4953cfbf$0$11386$5fc30a8@news.tiscali.it>
Organization: Tiscali SpA
NNTP-Posting-Host: 94.36.8.114
X-Trace: 1230229439 news.tiscali.it 11386 94.36.8.114:1417
X-Complaints-To: abuse@tiscali.it
Xref: g2news1.google.com rec.radio.amateur.homebrew:1628

swapu wrote:

```
> A capacitor is an electrical/electronic device...

wow, a great piece of news! :)

--
73 es 51 de i3hev, op. mario

Non � Radioamatore, se non gli fuma il saldatore!
- Campagna 2006 "Il Radioamatore non � uno che ascolta la radio"

it.hobby.radioamatori.moderato
http://digilander.libero.it/hamweb
http://digilander.libero.it/esperantovenezia


From -6297414583695851065
X-Google-Thread: fc2a5,f8aacb18f2367a53
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i24g2000prf.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Rig Response 3 , expected 38
Date: Thu, 25 Dec 2008 10:36:01 -0800 (PST)
Organization: http://groups.google.com
Lines: 88
Message-ID: <01a6435a-977f-4791-843c-b4eaac39ab6f@i24g2000prf.googlegroups.com>
References: <9f8a03d9-db46-441f-aece-75c28afe3400@e3g2000vbe.googlegroups.com>
     <Pine.NEB.4.64.0812221626260.7004@sdf.lonestar.org> <slrngl03uu.mos.bit-
bucket@shell.config.com>
NNTP-Posting-Host: 76.226.231.61
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1230230161 23919 127.0.0.1 (25 Dec 2008 18:36:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 25 Dec 2008 18:36:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i24g2000prf.googlegroups.com; posting-host=76.226.231.61;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.17)
     Gecko/20080829 Firefox/2.0.0.17,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1926

On Dec 22, 5:08 pm, Allodoxaphobia <bit-buc...@config.com> wrote:
> On Mon, 22 Dec 2008 16:34:26 +0000, Stray Dog wrote:
> > On Sun, 21 Dec 2008, fazamy wrote:
>
> >> Date: Sun, 21 Dec 2008 21:32:55 -0800 (PST)
> >> From: fazamy <faz...@aol.com>
```

> >> Newsgroups: rec.radio.amateur.homebrew
> >> Subject: Rig Response 3 , expected 38
>
> >> I've posted this on the XmLog group without a response explaining the
> >> meaning of this message: "Rig Response 3 , expected 38." Attempting
> >> to configure a so-called virtual com port from a freeware program so
> >> that I can run that log software on a discrete port, I get that
> >> message. What is 3? And if 38 is the optimal figure, how do I get to
> >> 38?
>
> >> Is there nyone in this group who can explain this?
>
> > It would help if you listed critical details like:
>
> > 1. what is the name of the application.
> > 2. its version number.
> > 3. whether the documentation specifies what kind of operating system it
> >   needs, what kind of hardware is a pre-requisit. And, whether there
> >   is a "readme" file with description of issues.
> > 4. what OS you actually are using.
> > 5. whether you attempted to contact the source of the software for an
> >   answer.
> > 6. whether the com port is specifiable from the software.
> > 7. does the com port hardware actually exist and correspond to what is
> >   configurable from the software.
> > 8. and out of curiosity, what is supposed to go in or out of the com port
> >   in this "logging" software? And, what is it supposed to connect with?
> > 9. did you buy the software or get it from someone else who has it
> >   working? (ask them for help?).
>
> > That is for starters.
>
> Really?
>
> 0.5. What does this have to do with homebrew?

hey OM:

Well you have to be desperate to ask what does it have to do with
homebrew?
When you should have asked: what does it have to do with amateur radio
homebrew?

But this ham needs is support. Not condescending attitudes. His first
problem is he gots Windoz.
The second trouble is that's like freeware. You gits no support.

A whois lookup of xmlog.com I finds this information:

Administrative Contact:
McAmis, Mike   m.mcamis@VALLEY.NET
Blat
433 Hanover Center Road

Etna, NH 03750
US
603-643-4361 fax: 603-643-4217

Now that FAX number is sum church. So whether you can gits ahold of Mike at the phone number listed as his registrar contact, you might end up on a wild goose chase.
Maybe you should try emailing mike.

It's obvious what that means, the freeware is looking for a 38 and your rig is telling the freeware 3. Your'e set up for the wrong rig. You have to go into the settings and find what rig is listed as 3 and set the sittings for that rig.

Towit it's like you set it up for say a 706MkII when you should have set it up for a 706MkIIG.

Now if you can't figure it out then you are going to have to try them all twice. The second times always the charm.

good luck on straight key night.

73 OM
n8zu

From -6981664837176040438
X-Google-Thread: fc2a5,d20a0bf6c6d96187
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!z28g2000prd.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Directly heated tube, cathode bias
Date: Thu, 25 Dec 2008 10:47:23 -0800 (PST)
Organization: http://groups.google.com
Lines: 37
Message-ID: <6b6bec9f-9cc4-40cc-b043-d213c606ff92@z28g2000prd.googlegroups.com>
References: <giupbk0gnv@news3.newsguy.com>
<1f42d213-5a49-4d5e-8ad3-8ba7a03036e0@k36g2000pri.googlegroups.com>
NNTP-Posting-Host: 76.226.231.61
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1230230843 3571 127.0.0.1 (25 Dec 2008 18:47:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 25 Dec 2008 18:47:23 +0000 (UTC)

```
Complaints-To: groups-abuse@google.com
Injection-Info: z28g2000prd.googlegroups.com; posting-host=76.226.231.61;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.17)
     Gecko/20080829 Firefox/2.0.0.17,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1927

On Dec 25, 12:46 pm, raypsi <RBorow...@gmail.com> wrote:
> On Dec 24, 8:58 pm, Bill M <radioex...@geemail.com> wrote:
>
> > I'm a little confused again.
>
> > Setting up a 1624 tube for cathode biasing and also need to create a
> > center tap for keying to ground.
>
> > The book says 610 ohms at my voltage.  So would I use a pair of 1200 ohm
> > resistors in this case?
>
> > My logic is since there is not a separate cathode then the two R in
> > parallel would raise the filament 'cathode' 600 ohms above B-minus.
>
> > TIA and Merry Christmas,
>
> > Bill
>
> hey OM:
>
> Exactly and you will need at least 10 watts of resistors to be safe.
> Because they also will have to handle plate, grid1, grid2, and the
> current they draw across the filament. I suppose if they where wire
> wound like 25 watt you could stick a ferrite rod in their hole and
> make them your filament chokes also. But if you use carbon comp
> resistors then part of your drive will go heating those resistors, so
> not much gain going on there.
>
> 73 OM
> n8zu

Well they ain't filament chokes, but in the drive circuit the drive
signal won't go to heating them up if they are chokes. So they will
only be taking about 1 mil of current from the filament circuit.

73
n8zu


From -5951170303921237O3
X-Google-Thread: fc2a5,d20a0bf6c6d96187
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news2!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
```

```
bignews6.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Directly heated tube, cathode bias
References: <giupbk0gnv@news3.newsguy.com>
<1f42d213-5a49-4d5e-8ad3-8ba7a03036e0@k36g2000pri.googlegroups.com>
<6b6bec9f-9cc4-40cc-b043-d213c606ff92@z28g2000prd.googlegroups.com>
In-Reply-To: <6b6bec9f-9cc4-40cc-b043-d213c606ff92@z28g2000prd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 35
Message-ID: <h4R4l.13210$UI2.4658@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcboocjopolljmgjipeemnmfofihnblfeanpda
bknnjjejjlcdffempecfgcmfnigpimncmdhcleiijhgcdmglcdmppplfcfhgdogghbjjfoaiemglci
NNTP-Posting-Date: Thu, 25 Dec 2008 14:22:53 EST
Organization: BellSouth Internet Group
Date: Thu, 25 Dec 2008 14:25:11 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1631

raypsi wrote:
> On Dec 25, 12:46 pm, raypsi <RBorow...@gmail.com> wrote:
>> On Dec 24, 8:58 pm, Bill M <radioex...@geemail.com> wrote:
>>
>>> I'm a little confused again.
>>> Setting up a 1624 tube for cathode biasing and also need to create a
>>> center tap for keying to ground.
>>> The book says 610 ohms at my voltage.  So would I use a pair of 1200 ohm
>>> resistors in this case?
>>> My logic is since there is not a separate cathode then the two R in
>>> parallel would raise the filament 'cathode' 600 ohms above B-minus.
>>> TIA and Merry Christmas,
>>> Bill
>> hey OM:
>>
>> Exactly and you will need at least 10 watts of resistors to be safe.
>> Because they also will have to handle plate, grid1, grid2, and the
>> current they draw across the filament. I suppose if they where wire
>> wound like 25 watt you could stick a ferrite rod in their hole and
>> make them your filament chokes also. But if you use carbon comp
>> resistors then part of your drive will go heating those resistors, so
>> not much gain going on there.
>>
>> 73 OM
>> n8zu
>
> Well they ain't filament chokes, but in the drive circuit the drive
> signal won't go to heating them up if they are chokes. So they will
> only be taking about 1 mil of current from the filament circuit.
```

```
>
> 73
> n8zu
One possible problem.  If this is an RF amplifier circuit you probably
want to use NON-INDUCTIVE resistors in the circuit or they WILL act as
chokes!


From 4076462198428318373
X-Google-Thread: fc2a5,c022b489567f3664
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2!wn13feed!
worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
From: You <you@shadow.orgs>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: capacitor
Organization: Shadow.orgs
References: <fce61c84-61f5-4a61-b899-829cf3f82deb@u18g2000pro.googlegroups.com>
User-Agent: MT-NewsWatcher/3.5.3b2 (PPC Mac OS X)
Message-ID: <you-9218A1.13121025122008@netnews.worldnet.att.net>
Lines: 16
Date: Thu, 25 Dec 2008 22:11:29 GMT
NNTP-Posting-Host: 12.12.208.88
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1230243089 12.12.208.88 (Thu, 25 Dec
2008 22:11:29 GMT)
NNTP-Posting-Date: Thu, 25 Dec 2008 22:11:29 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1929

In article
<fce61c84-61f5-4a61-b899-829cf3f82deb@u18g2000pro.googlegroups.com>,
 swapu <swapna_kolluru@yahoo.com> wrote:

> A capacitor is an electrical/electronic device that can store energy
> in the electric field between a pair of conductors (called "plates").
> The process of storing energy in the capacitor is known as "charging",
> and involves electric charges of equal magnitude, but opposite
> polarity, building up on each plate.
>
> http://electronicstopics.blogspot.com/2008/10/capacitor.html

SSSTOP the Presses,this is BIG News... Get out a Special Edition...
This Yahoo Dufus has made a GIANt Breakthru in Electronic Theory....

Sonny, give the world a break, and take you BS somewhere else....


From 4994088462231642679
X-Google-Thread: 108122,b95dec3d20a255fd
X-Google-Thread: fc2a5,b95dec3d20a255fd
X-Google-Thread: 107ada,b95dec3d20a255fd
X-Google-Thread: 110c99,b95dec3d20a255fd
```

```
X-Google-Thread: 111320,b95dec3d20a255fd
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews5.bellsouth.net.POSTED!534065d3!not-for-mail
From: Eagle@bellsouth.net (J. Hugh Sullivan)
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: Re: Females love to show off in front of their webcams
Message-ID: <49347c37.40462203@newsgroups.bellsouth.net>
References: <b8ce10db-378c-4ac2-81a5-f4fb023239ac@f3g2000yqf.googlegroups.com>
<zVYYk.2602$UI2.2449@bignews6.bellsouth.net>
X-Newsreader: Forte Free Agent 1.21/32.243
Lines: 19
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcboeleohmdinfhnhnmpmmjjbckkldkhbdolbi
ipkoanookdfhleoldlmclpbpmfiahemfajldofeiileooanflhbhgdfkjbjiebhbfbbgdbemghfool
NNTP-Posting-Date: Mon, 01 Dec 2008 19:02:59 EST
Organization: BellSouth Internet Group
Date: Tue, 02 Dec 2008 00:08:17 GMT
Xref: g2news1.google.com rec.radio.amateur.equipment:908
rec.radio.amateur.homebrew:1379 rec.radio.amateur.misc:1607 rec.running:5487
rec.scouting.issues:950

On Mon, 1 Dec 2008 16:47:04 -0500, "Ed Cregger"
<ecregger@bellsouff.net> wrote:

>If they're not talking on ham radio, we're not interested.
>
>Ed, N2ECW

Concur.

Hugh, WA4QZU
>
>-------
>
><elvinabr@gmail.com> wrote in message
>news:b8ce10db-378c-4ac2-81a5-f4fb023239ac@f3g2000yqf.googlegroups.com...
>> Females love webcams http://westsex.withsex.com
>
>



From -5042571945338784115
X-Google-Thread: fc2a5,62157ffe5eecd30f,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
```

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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l33g2000pri.googlegroups.com!not-for-
mail
From: "Ross, NS7F" <rjtucke@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: uses for exotic capacitor types?
Date: Mon, 1 Dec 2008 20:27:52 -0800 (PST)
Organization: http://groups.google.com
Lines: 39
Message-ID: <cf368a30-7a6e-49cb-b403-15d3c5bb1759@l33g2000pri.googlegroups.com>
NNTP-Posting-Host: 68.231.78.69
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1228192073 21293 127.0.0.1 (2 Dec 2008 04:27:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 2 Dec 2008 04:27:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l33g2000pri.googlegroups.com; posting-host=68.231.78.69;
     posting-account=dcJvXgoAAABRlhSfOMmtMBXWf-dUgzU6
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X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; Intel Mac OS X 10.5; en-US;
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Xref: g2news2.google.com rec.radio.amateur.homebrew:1677
```

Dear List,
I am looking for your wisdom and lore regarding uses for some of the more exotic capacitors found in my junque-box. I have been a ham for a whole sunspot cycle now. I know what an NP0/C0G capacitor is and when to use it, I know electrolytics, tantalum, and about the use of Temperature Compensating capacitors. I have checked the usual places (books, ARRL TIS, the archives of this list, etc) and none of these resources tell me several important things: what they look like and where would I use them in ham homebrew circuits. Here is my list:

UNKNOWN TYPE AND APPLICATION:
1. Blue, really shiny, flat, and small like a disc ceramic.

2. Orange and shiny- definitely not electrolytic or tantalum. Both bulgy and flattish.

3. Green and shiny- both bulgy and flattish. (I've heard these are either mylar or polyester film. How do I tell them apart?)

4. Dark orange (maybe brownish?) and bulgy.

5. Yellow rectangular blocks.

KNOWN TYPE, UNKNOWN APPLICATION
6. Labeled "monolithic dip"- what do I use these for?

7. "Mallory DC Film" (250V)- what do I use these for?

8. What's the difference between the following three types of mica
capacitors?
* Dipped silver mica
* Old-style micas (colored dots and physically large rectangular
blocks)
* Modern, not dipped-silver micas

Thank you VERY much for any input on this matter.

73,
Ross, NS7F

From 6837106920457089925
X-Google-Thread: fc2a5,62157ffe5eecd30f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: uses for exotic capacitor types?
Date: Tue, 2 Dec 2008 07:22:49 +0100 (CET)
Organization: Mostly In Piles
Lines: 82
Message-ID: <Xns9B683DCE1CDB2MDWN@194.177.96.78>
References: <cf368a30-7a6e-49cb-b403-15d3c5bb1759@l33g2000pri.googlegroups.com>
NNTP-Posting-Host: hsOQiDg5qol7S7FpZnzS8A.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Tue, 2 Dec 2008 06:22:49 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.5
Xref: g2news1.google.com rec.radio.amateur.homebrew:1381

Howdy,

Without seeing the parts I can only take a WAG at what the
capacitors in question might be. This web site might help.
http://www.faradnet.com/

> UNKNOWN TYPE AND APPLICATION:
> 1. Blue, really shiny, flat, and small like a disc ceramic.

Possibly Murata (or others) ceramic capacitors designed for
use in AC line filters.

> 2. Orange and shiny- definitely not electrolytic or tantalum. Both
> bulgy and flattish.

Possibly Sprage Orange drop polypropylene film capacitors. There are
various types in this product family. Generally good for high dV/dT
or pulse current applications like snubbers. Could be metallized film

or film and foil.

> 3. Green and shiny- both bulgy and flattish. (I've heard these are
> either mylar or polyester film. How do I tell them apart?)

I think this is a good guess. Mylar is a polyester film.

> 4. Dark orange (maybe brownish?) and bulgy.

Another film capacitor. If brown possibly Panasonic polyester.

> 5. Yellow rectangular blocks.

It's a film capacitor, Possibly Wima. I can't remember what the material is. Could be Philips polyester too.

> KNOWN TYPE, UNKNOWN APPLICATION
> 6. Labeled "monolithic dip"- what do I use these for?

General low energy use, coupling, by pass and filtering.

> 7. "Mallory DC Film" (250V)- what do I use these for?

Polypropylene, bypass or noise suppression.

> 8. What's the difference between the following three types of mica
> capacitors?

> * Dipped silver mica
> * Old-style micas (colored dots and physically large rectangular
> blocks)
> * Modern, not dipped-silver micas

Dipped mica is still made and good for RF coupling and snubbers. I use these in antenna tuners.

The box type with dots are similar construction but with metal plates instead of metalization. They're good for RF coupling and high current like tank circuits.

The non-dipped I'm guessing Unelco metal clad which are more like the box style without the box. Less series inductance so better high frequency performance. I've used these in solid state linears up into the VHF range.

The film capacitors vary in the material, polyester (mylar) polyproylene, polycarbonate, polystyrene and more exotic films like polysulphone...each has its strong and weak points. Some use mixed dielectrics. The construction can be metalized film, metal foil, double layer (self healing) or stacked film. The method for attachment of the lead wires may vary too with high current capacitors having thicker termination or schouping (sp?)

metal sprayed onto the ends of the foil or film. The Farad Net site
documents some of the types and applications.

As always YMMV. I'm just guessing.

73,
Grumpy

From -3563470832851690068
X-Google-Thread: fc2a5,62157ffe5eecd30f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news3
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: uses for exotic capacitor types?
Date: Tue, 02 Dec 2008 07:24:52 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 26
Message-ID: <gh35u70tc@news3.newsguy.com>
References: <cf368a30-7a6e-49cb-b403-15d3c5bb1759@l33g2000pri.googlegroups.com>
<Xns9B683DCE1CDB2MDWN@194.177.96.78>
NNTP-Posting-Host: p24d1bfbfff00000073b1290e905b03f4f4edcc2ec7af5129.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
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User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <Xns9B683DCE1CDB2MDWN@194.177.96.78>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1382

Grumpy The Mule wrote:
> Howdy,
>
>
> Without seeing the parts I can only take a WAG at what the
> capacitors in question might be. This web site might help.
> http://www.faradnet.com/
>
>> UNKNOWN TYPE AND APPLICATION:
>> 1. Blue, really shiny, flat, and small like a disc ceramic.
>
> Possibly Murata (or others) ceramic capacitors designed for
> use in AC line filters.

I'll add my cents worth.
A few years ago I bought some high-voltage disc ceramics like you are
describing. 6kv rating in 'rf' values like "681" (680pf). About 10mm

in diameter and 5cm thick. The 1kv ones are about half that size.

I used them in the output pi-network loading of a Galaxy 5 and they were
up to the task although they are plain Z5U types.

They are marked, btw, no mystery as to their rating. You don't normally
look at something this small and think 6kv!

-Bill

From -1008474020369500868
X-Google-Thread: fc2a5,62157ffe5eecd30f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
13g2000yql.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: uses for exotic capacitor types?
Date: Tue, 2 Dec 2008 08:32:44 -0800 (PST)
Organization: http://groups.google.com
Lines: 57
Message-ID: <5054e888-a57e-4208-ae70-74228e3bd48c@13g2000yql.googlegroups.com>
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NNTP-Posting-Date: Tue, 2 Dec 2008 16:32:45 +0000 (UTC)
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Injection-Info: 13g2000yql.googlegroups.com; posting-host=170.121.14.12;
    posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
    CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1383

On Dec 1, 11:27=A0pm, "Ross, NS7F" <rjtu...@gmail.com> wrote:
> Dear List,
> I am looking for your wisdom and lore regarding uses for some of the
> more exotic capacitors found in my junque-box. I have been a ham for a
> whole sunspot cycle now. I know what an NP0/C0G capacitor is and when
> to use it, I know electrolytics, tantalum, and about the use of
> Temperature Compensating capacitors. I have checked the usual places
> (books, ARRL TIS, the archives of this list, etc) and none of these
> resources tell me several important things: what they look like and
> where would I use them in ham homebrew circuits. Here is my list:
>
> UNKNOWN TYPE AND APPLICATION:
> 1. Blue, really shiny, flat, and small like a disc ceramic.

Probably is a disc ceramic :-). Some makers use blue on their higher-voltage disk ceramics. Labeling will probably tell voltage and capacitance.

> 2. Orange and shiny- definitely not electrolytic or tantalum. Both bulgy and flattish.
>
> 3. Green and shiny- both bulgy and flattish. (I've heard these are either mylar or polyester film. How do I tell them apart?)
>
> 4. Dark orange (maybe brownish?) and bulgy.
>
> 5. Yellow rectangular blocks.

All of the above are probably film capacitors of some kind or another. Color doesn't mean much except maybe to an audiofile.

> KNOWN TYPE, UNKNOWN APPLICATION
> 6. Labeled "monolithic dip"- what do I use these for?

Widely used ceramic capacitors. Small values are good for RF, larger for bypass. Depending on the dielectric may not be worthwhile for audio.

> 7. "Mallory DC Film" (250V)- what do I use these for?

These are higher voltage film polypropylene capacitors.
>
> 8. What's the difference between the following three types of mica capacitors?
> * Dipped silver mica
> * Old-style micas (colored dots and physically large rectangular blocks)
> * Modern, not dipped-silver micas

All are potentially useful where you need a low-dissipation capacitor. The old-style micas less so. Sometimes even if it's a rectangular package with colored dots, they are just ceramic and not micas.

For many modern purposes, modern C0G ceramics will be superior (better lower tempco) to the long-recommended silver micas.

Tim N3QE

From 4357815316891352666
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!

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border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 02 Dec 2008 11:29:16 -0600
From: John Navas <spamfilter1@navasgroup.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
Date: Tue, 02 Dec 2008 09:29:14 -0800
Organization: The Navas Group <http://navasgroup.com>
Message-ID: <gsraj4lelo15685lhiaet0p5nf2riut5a6@4ax.com>
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
<FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>
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Lines: 28
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X-Trace: sv3-oMVqpwbdn0SL6DsERymnVt8iac9dhe0QVjPIMKZSB4fI1/5a/955kQvV/
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pxAMAiW5yDzFbfOmuhF0y49HQ==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.antenna:7944
rec.radio.amateur.homebrew:1681 alt.internet.wireless:4406
```

On Fri, 21 Nov 2008 09:00:09 -0500, "Bill Kearney"
<wkearney99@hotmail.com> wrote in
<FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>:

>"DaveC" <me@bogusdomain.net> wrote in message
>news:0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net...

>> Is there any reason to not go for the greatest gain antenna, given that
>> cost is not too important (within reason)?
>
>Alligator effect. Wide mouth receiving everything.

"Alligator effect" normally refers to higher transmit power (not higher
antenna gain) -- big mouth, small ears.

>If you don't need to
>pickup everything then why bother? It just makes it harder for your WiFi
>router to cut through all the noise of distant stations it doesn't
>communicate with. ...

It actually usually makes sense, since higher gain means narrower
receive pattern, which better rejects off-axis interference.
Interference in exactly the same path is possible but unlikely.

```
--
Best regards,   FAQ for Wireless Internet: <http://wireless.navas.us>
John Navas      FAQ for Wi-Fi:  <http://wireless.navas.us/wiki/Wi-Fi>
           Wi-Fi How To:  <http://wireless.navas.us/wiki/Wi-Fi_HowTo>
Fixes to Wi-Fi Problems:  <http://wireless.navas.us/wiki/Wi-Fi_Fixes>


From 7808991619838829670
X-Google-Thread: fc2a5,62157ffe5eecd30f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
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NNTP-Posting-Date: Tue, 02 Dec 2008 12:19:22 -0600
Date: Tue, 02 Dec 2008 13:18:32 -0500
From: highlandham <rfburns@nospam.com>
User-Agent: Icedove 1.5.0.9 (X11/20061220)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: uses for exotic capacitor types?
References: <cf368a30-7a6e-49cb-b403-15d3c5bb1759@l33g2000pri.googlegroups.com>
<Xns9B683DCE1CDB2MDWN@194.177.96.78> <gh35u70tc@news3.newsguy.com>
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Lines: 39
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.107.29.68
X-Trace: sv3-Ie2V+zVMoOj7XALo7IG93ZLrlRVRKUhA+4DvK+rh1C/
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zIHyO78sPto0jlv6lmpe+xBF
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1385

exray wrote:
> Grumpy The Mule wrote:
>> Howdy,
>>
>>
>> Without seeing the parts I can only take a WAG at what the
>> capacitors in question might be.  This web site might help.
>> http://www.faradnet.com/
>>
>>> UNKNOWN TYPE AND APPLICATION:
>>> 1. Blue, really shiny, flat, and small like a disc ceramic.
```

>>
>> Possibly Murata (or others) ceramic capacitors designed for
>> use in AC line filters.
>
> I'll add my cents worth.
> A few years ago I bought some high-voltage disc ceramics like you are
> describing. 6kv rating in 'rf' values like "681" (680pf). About 10mm
> in diameter and 5cm thick. The 1kv ones are about half that size.
>
> I used them in the output pi-network loading of a Galaxy 5 and they were
> up to the task although they are plain Z5U types.
>
> They are marked, btw, no mystery as to their rating. You don't normally
> look at something this small and think 6kv.

=======================================

They might be OK capacity and voltage wise ,but are possibly not
suitable to handle RF current ,so when using them in HV RF circuits it
might be better to use a few in parallel.

Frank   KN6WH

```
From -4282676764409964896
X-Google-Thread: fc2a5,62157ffe5eecd30f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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headwall.stanford.edu!newshub.sdsu.edu!spln!extra.newsguy.com!newsp.newsguy.com!
news3
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: uses for exotic capacitor types?
Date: Tue, 02 Dec 2008 15:03:38 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 12
Message-ID: <gh40qb0k0e@news3.newsguy.com>
References: <cf368a30-7a6e-49cb-b403-15d3c5bb1759@l33g2000pri.googlegroups.com>
<Xns9B683DCE1CDB2MDWN@194.177.96.78> <gh35u70tc@news3.newsguy.com>
<xu2dnbdgg4W24ajUnZ2dnUVZ8uudnZ2d@pipex.net>
NNTP-Posting-Host: p24d1bfbfff00000073b1290e905b03f4f4edcc2ec7af5129.newsdawg.com
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User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <xu2dnbdgg4W24ajUnZ2dnUVZ8uudnZ2d@pipex.net>
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:1386

highlandham wrote:

> They might be OK capacity and voltage wise ,but are possibly not
> suitable to handle RF current ,so when using them in HV RF circuits it
> might be better to use a few in parallel.
>
> Frank   KN6WH

That may well be true but thats also why I stated a case of a 200-watt
output rig where they DID work.

-Bill

From -5541434734978668056
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
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X-Google-Thread: 108122,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,gid106d41,gid108122,domainid0,public,usenet
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Path: g2news2.google.com!postnews.google.com!l39g2000yqn.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb,rec.radio.amateur.equipment
Subject: Re: VoiceMax Speech Processor
Date: Wed, 3 Dec 2008 13:51:53 -0800 (PST)
Organization: http://groups.google.com
Lines: 46
Message-ID: <7ed1b40c-3269-4713-a1ea-a4b1e2a72a6e@l39g2000yqn.googlegroups.com>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1228341113 22947 127.0.0.1 (3 Dec 2008 21:51:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 3 Dec 2008 21:51:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l39g2000yqn.googlegroups.com; posting-host=76.226.127.85;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap

User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.18)
Gecko/20081029 Firefox/2.0.0.18,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1684 rec.radio.cb:6100
rec.radio.amateur.equipment:1128

On Nov 29, 5:42 pm, Steve <moparho...@hotmail.com> wrote:
> JIMMIE <jimmi...@gmail.com> wrote:
> > On Nov 29, 9:44=A0am, Telstar Electronics <briangrif...@sbcglobal.net>
> > wrote:
> > > > So did Mouser assist you in the design, or put up money to market you
> > > > splatter circuit? Do they get a cut of your business? Do they sell
> > > > your junk in their catalog? Or is your only partnership just that you
> > > > order parts from them? Do they even know what you order parts for?
> > > > Partner with Mouser, yeah right, just more telestar hype.
>
> > > Commander... Like I said earlier... the dictionary defines partner as
> > > "One that is united or associated
> > > with another or others in an activity or a sphere of common interest."
> > > I guess you're not able to comprehend that sentence. Not really
> > > surprising. If you're looking for an argument... I only argue with
> > > worthwhile adversaries... lol
>
> > Perhaps Mouser should be informed of this claim to partnership. They
> > may very interested.
>
> > Jimmie
>
> Oh no, are you going to report him to Mouser?
>
> --
> http://NewsReader.Com/

Hey OM

well I tell you what let's say a certain company is running
racketeering like some big electronics firm.
This racket involves taking peoples money and laundering it then
giving it back after it's been laundered. Now lets say you partnered
with this company then you too would be guilty of racketeering which
under RICO laws is a felony.

So in the end your so called definition of partner would fall under
the guise of RICO and you will go to jail for a real long time and
your best friend in jail will be bubba.

In other words your guilty by association.

73 OM

n8zu

From 7676231979939876325
X-Google-Thread: fc2a5,62157ffe5eecd30f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news4.google.com!goblin1!goblin.stu.neva.ru!egsner!news.cirr.com!sdf.lonestar.org!sdog2008
From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: uses for exotic capacitor types?
Date: Wed, 3 Dec 2008 23:40:33 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 131
Message-ID: <Pine.NEB.4.64.0812032329080.21666@sdf.lonestar.org>
References: <cf368a30-7a6e-49cb-b403-15d3c5bb1759@l33g2000pri.googlegroups.com>
NNTP-Posting-Host: sdf.lonestar.org
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: chessie.cirr.com 1228347640 19119 192.94.73.1 (3 Dec 2008 23:40:40 GMT)
X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Wed, 3 Dec 2008 23:40:40 +0000 (UTC)
In-Reply-To: <cf368a30-7a6e-49cb-b403-15d3c5bb1759@l33g2000pri.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1388

On Mon, 1 Dec 2008, Ross, NS7F wrote:

> Date: Mon, 1 Dec 2008 20:27:52 -0800 (PST)
> From: "Ross, NS7F" <rjtucke@gmail.com>
> Newsgroups: rec.radio.amateur.homebrew
> Subject: uses for exotic capacitor types?
>
> Dear List,
> I am looking for your wisdom and lore regarding uses for some of the
> more exotic capacitors found in my junque-box. I have been a ham for a
> whole sunspot cycle now. I know what an NP0/C0G capacitor is and when
> to use it, I know electrolytics, tantalum, and about the use of
> Temperature Compensating capacitors. I have checked the usual places
> (books, ARRL TIS, the archives of this list, etc) and none of these
> resources tell me several important things: what they look like and
> where would I use them in ham homebrew circuits. Here is my list:
>
> UNKNOWN TYPE AND APPLICATION:
> 1. Blue, really shiny, flat, and small like a disc ceramic.
>
> 2. Orange and shiny- definitely not electrolytic or tantalum. Both
> bulgy and flattish.
>
> 3. Green and shiny- both bulgy and flattish. (I've heard these are
> either mylar or polyester film. How do I tell them apart?)
>
> 4. Dark orange (maybe brownish?) and bulgy.
>
> 5. Yellow rectangular blocks.

>
> KNOWN TYPE, UNKNOWN APPLICATION
> 6. Labeled "monolithic dip"- what do I use these for?
>
> 7. "Mallory DC Film" (250V)- what do I use these for?
>
> 8. What's the difference between the following three types of mica capacitors?
> * Dipped silver mica

Capacitance should be more stable with temperature change.

> * Old-style micas (colored dots and physically large rectangular blocks)

Cheaper than silver mica.

> * Modern, not dipped-silver micas

Should be larger (?) and more for higher currents (RF) and maybe voltages.

Micas should be very resistant to the kind of ageing in paper dielectric caps (leakage, change in value, short, open). And, also, some capacitors, such as electrolytics have capacitance changes as a function of voltage applied, and thus are very non-linear.

> Thank you VERY much for any input on this matter.

If this is important to you, then it would have been more helpful to us if you gave some specific dimensions of an example or two, and described any writing or other markings (such as bands, "+", "="), and voltage and capacitance numbers or even code numbers. Many new caps don't have specific characteristics on them any more, just code numbers and you have to guess or know what they mean.

Another possiblity would be to obtain catalogs, even current catalogs, from parts suppliers. Often they have pictures or line drawings that can give you hints.

I don't know about the newest ARRL handbooks, but many of the old ones have typical pictures of examples and you can go by that.

Be aware that some of the newer caps do not have forms or colors that are as standardized as they once were and the external appearance might not give you a good clue as to what you have.

Capacitor color codes (six dots) on the old caps are also "decoded" in some of the older handbooks.

> 73,
> Ross, NS7F
>

```
From -4157517754711804162
X-Google-Thread: fc2a5,8c2592a01c6ef65f,start
```

X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!feeder.news-service.com!69.16.177.246.MISMATCH!cyclone03.ams.highwinds-media.com!news.highwinds-media.com!npeersf02.ams.highwinds-media.com!newsfe16.ams2.POSTED!7564ea0f!not-for-mail
From: "doug" <doug.morsit@virgin.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: icom 7400 ext.spkr socket
Lines: 6
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <3dIZk.1247$gx1.453@newsfe16.ams2>
NNTP-Posting-Host: 62.255.104.3
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe16.ams2 1228361663 62.255.104.3 (Thu, 04 Dec 2008 03:34:23 UTC)
NNTP-Posting-Date: Thu, 04 Dec 2008 03:34:23 UTC
Organization: virginmedia.com
Date: Thu, 4 Dec 2008 03:33:27 -0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:1389

Need to replace or resolder ext. speaker socket on Icom 7400,and wonder if anyone has knowhow on this job. Thanks for any info.!

doug.

From -5739608055692547699
X-Google-Thread: fc2a5,62157ffe5eecd30f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!q9g2000yqc.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: uses for exotic capacitor types?
Date: Thu, 4 Dec 2008 01:36:39 -0800 (PST)
Organization: http://groups.google.com
Lines: 53
Message-ID: <3d81a4e0-1c9f-4cd1-81e2-0519fc2018a4@q9g2000yqc.googlegroups.com>
References: <cf368a30-7a6e-49cb-b403-15d3c5bb1759@l33g2000pri.googlegroups.com>
NNTP-Posting-Host: 76.226.127.85
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1228383399 22295 127.0.0.1 (4 Dec 2008 09:36:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 4 Dec 2008 09:36:39 +0000 (UTC)

Complaints-To: groups-abuse@google.com
Injection-Info: q9g2000yqc.googlegroups.com; posting-host=76.226.127.85;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1687

On Dec 1, 11:27=A0pm, "Ross, NS7F" <rjtu...@gmail.com> wrote:
> Dear List,
> I am looking for your wisdom and lore regarding uses for some of the
> more exotic capacitors found in my junque-box. I have been a ham for a
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>
> 5. Yellow rectangular blocks.
>
> KNOWN TYPE, UNKNOWN APPLICATION
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>
> 8. What's the difference between the following three types of mica
> capacitors?
> * Dipped silver mica
> * Old-style micas (colored dots and physically large rectangular
> blocks)
> * Modern, not dipped-silver micas
>
> Thank you VERY much for any input on this matter.
>
> 73,
> Ross, NS7F

Hey OM

I hate to inform you but not one of those is an exotic capacitor. They

are all garden variety.
Now maybe a Russian made 1 farad 28WVDC capacitor the size of an overnight bag that would be exotic.
Since yoiu been a ham for a sunspot cycle maybe you can find sum sun spots in that junque box for me eh? I could use sum sun spots.

73 OM
n8zu

```
From -444184220103290546
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!v4g2000yqa.googlegroups.com!not-for-
mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb,rec.radio.amateur.equipment
Subject: Re: VoiceMax Speech Processor
Date: Thu, 4 Dec 2008 04:33:01 -0800 (PST)
Organization: http://groups.google.com
Lines: 14
Message-ID: <9411fb1f-87c4-4746-b4e6-da5017bb2024@v4g2000yqa.googlegroups.com>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
     <10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
     <tZgXk.6309$W06.728@flpi148.ffdc.sbc.com> <020a50e0-c5ad-4a71-8e59-
eb90b328855d@z1g2000yqn.googlegroups.com>
     <ggmekg$fmh$1@news.albasani.net> <47ae8004-
a482-406b-99fb-31fb85ed9222@20g2000yqt.googlegroups.com>
     <ggn7sd$eu2$1@news.albasani.net> <c227abd5-71b7-4351-aff0-
f50ce28999bd@s20g2000yqh.googlegroups.com>
     <046342db-07ed-476e-875e-468d8b576a21@y1g2000pra.googlegroups.com>
     <190175b5-13d0-4767-9d43-4adb2874f545@20g2000yqt.googlegroups.com>
     <00da575c-7189-4369-8eed-bc0b7a9ea78f@t11g2000yqg.googlegroups.com>
     <20081129174111.728$gv@newsreader.com> <7ed1b40c-3269-4713-a1ea-
a4b1e2a72a6e@l39g2000yqn.googlegroups.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1228393981 29261 127.0.0.1 (4 Dec 2008 12:33:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 4 Dec 2008 12:33:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v4g2000yqa.googlegroups.com; posting-host=216.203.30.4;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1688 rec.radio.cb:6110
rec.radio.amateur.equipment:1129
```

> well I tell you what let's say a certain company is running

> racketeering like some big electronics firm.
> This racket involves taking peoples money and laundering it then
> giving it back after it's been laundered. Now lets say you partnered
> with this company then you too would be guilty of racketeering =A0which
> under RICO laws is a felony.
> So in the end your so called definition of partner would fall under
> the guise of RICO and you will go to jail for a real long time and
> your best friend in jail will be bubba.
> In other words your guilty by association.
> n8zu

I had no idea so many attorneys frequented this group... lol

```
From -6783705420822408242
X-Google-Thread: fc2a5,4da60416ef44f0c4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!k19g2000yqg.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Article about a portable PC that runs on 12v?
Date: Thu, 4 Dec 2008 05:42:40 -0800 (PST)
Organization: http://groups.google.com
Lines: 49
Message-ID: <748d0ebf-83eb-41d6-8471-c1f52b328943@k19g2000yqg.googlegroups.com>
References: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com>
     <tN6dnTLjt9YZNoXUnZ2dneKdnZydnZ2d@pipex.net> <90853ff4-
a29e-4167-900c-77583682f7f0@l33g2000pri.googlegroups.com>
     <6ns6alFl5pmU1@mid.individual.net>
<b825958f-871c-49e2-9067-81f9a4ead046@i20g2000prf.googlegroups.com>
     <6num1sF10ncjU1@mid.individual.net>
<celmh4h2mkhfbiq9a36pmek558j5k4k30p@4ax.com>
     <6o1a3rF1cileU2@mid.individual.net>
NNTP-Posting-Host: 155.178.4.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1228398160 1954 127.0.0.1 (4 Dec 2008 13:42:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 4 Dec 2008 13:42:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k19g2000yqg.googlegroups.com; posting-host=155.178.4.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1392
```

On Nov 12, 7:18=A0pm, Bob <biasco...@invalid.inv> wrote:
> Dan Richardson wrote:

```
> > On Wed, 12 Nov 2008 00:24:01 +0000, Bob <biasco...@invalid.inv> wrote:
>
> >> can't understand the reluctance of the Americans to use Linux. =A0Ther=
e has
> >>been no real reason to use Windows for a long time (unless you want to =
play
> >>games, but a PS3 is best for that). =A0Over here in Europe, Linux uptak=
e
> >>continues rapidly - as each new Windows virus or worm hits, ever more p=
eople
> >>and businesses migrate.
>
> > Maybe it is because it can be very difficult, if not impossible, to
> > find necessary hardware drivers. Especially, if you have some of the
> > latest equipment models. I have found Linux to be more useful on older
> > computers as one is much more likely to find the necessary drivers.
>
> > For example have recently added a new HP all-in-one laser printer that
> > includes a scanner and FAX. I have it installed on a dual boot
> > (Linux/Windows XP) system. While I'm able to print with the Linux
> > system good luck trying to get the scanner and FAX working. That's
> > just one example. I have a litany of them.
>
> Funnily enough, I have much the same, but found that HPLip handled printi=
ng
> perfectly, and Xsane handled scanning. =A0Hylafax also works very effecti=
vely.
> No difficult installation or configuration required with the /very/ lates=
t
> hardware - modern Linux distros have all that pretty much licked!
>
> Just don't buy Canon or Lexmark gear - both companies /actively/ /discour=
age/
> the development of Linux drivers.
>
> Bob- Hide quoted text -
>
> - Show quoted text -

For an everyday driver  I do find putting together a computer using
Linux a bit of a hassle. However for a special purpose computer like a
server I prefer Linux systems. I guess Windows has become the WD40 of
operating systems, its useful for a lot of things but for most special
purposes yo ucan find something better.


Jimmie



From -3921909746951121456
X-Google-Thread: fc2a5,36847f1ed742f97c,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!postnews.google.com!t3g2000yqa.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 6L6 substitute
Date: Thu, 4 Dec 2008 06:23:48 -0800 (PST)
Organization: http://groups.google.com
Lines: 11
Message-ID: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
NNTP-Posting-Host: 155.178.5.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1228400628 15514 127.0.0.1 (4 Dec 2008 14:23:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 4 Dec 2008 14:23:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t3g2000yqa.googlegroups.com; posting-host=155.178.5.10;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1690

After years of avoiding morse code I am finally getting into it. the
ideal of operating a very simple transmitter appeals to my junkbox/
trashcan construction mentality.
I am looking for a substitue for a 6L6 that has the plate brought out
the top. I was trying to build a little Glowbug transmitter but was
having all kinds of problems neutralizing the the thing. I think I
would have better luck if I can separate the grid and plate circuits
from each other. I am considering an 807 as a replacement Suggestions
would be appreciated.

Jimmie

From 1341014551790416325
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!newsfeed.straub-nv.de!news.albasani.net!not-for-mail
From: Stev eH <StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfghgjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbllyxdldf@tfif.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Date: Thu, 04 Dec 2008 17:56:27 +0000
Organization: Digital preserves music the way that formaldehyde preserves
frogs. You kill it, and it lasts forever
Lines: 18

Message-ID: <gh95kc$ats$1@news.albasani.net>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
Reply-To:
StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfghg
jsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbll
yxdldf@tfif.co.uk
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net qljRm96H6SZNQmIXnEjBcsGpgsucfhibe/
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8x8FEtA2+OmXhc4VIAPYR
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Thu, 4 Dec 2008 17:56:29 +0000 (UTC)
X-User-ID: Vljv8CUxpL5TaoaqRafWMbx2HbuX3V5Sb8lzluvGPFo=
In-Reply-To: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
Cancel-Lock: sha1:eiFY5GfOUZedgQNRHzOdOPPeNrI=
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
X-NNTP-Posting-Host: EfkFzIHDxhDHPBQy6yeTxQNo0ULTrXmCEwjnZHEXOus=
Xref: g2news1.google.com rec.radio.amateur.homebrew:1394

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> having all kinds of problems neutralizing the the thing. I think I
> would have better luck if I can separate the grid and plate circuits
> from each other. I am considering an 807 as a replacement Suggestions
> would be appreciated.
>
> Jimmie

An 807 IS a 6L6 with a top cap anode connection. Any of the TV line
output valves will also do the job if you want cheap, the 6DQ6B works
well and has an octal base (The sockets for the 807 are rare).
6146 or 2e26 etc work well but will cost you more.

Steve H

From 3499892137929574196
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!
spln!extra.newsguy.com!newsp.newsguy.com!news3
From: Registered User <n4jvp@ix.netcom.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Date: Thu, 04 Dec 2008 13:20:33 -0500
Organization: subdevo.com

Lines: 10
Message-ID: <ra7gj4dt1kdpau3fvgrenldl36dh39vnkh@4ax.com>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<gh95kc$ats$1@news.albasani.net>
Reply-To: n4jvp@ix.netcom.com
NNTP-Posting-Host: pd5607c4aff000000e1611f4f350239312b2c764060bbdc5e.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Newsreader: Forte Agent 3.3/32.846
Xref: g2news2.google.com rec.radio.amateur.homebrew:1692
X-Original-Bytes: 1231

On Thu, 04 Dec 2008 17:56:27 +0000, Stev eH
<StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfgh
gjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbl
lyxdldf@tfif.co.uk>
wrote:

>The sockets for the 807 are rare

The 807 uses a readily available 5 contact socket. The 1625 (12V
equivalent) uses a 7 contact socket which can be difficult to locate.

73 de n4jvp

From -4037664648708286273
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Date: Thu, 04 Dec 2008 19:02:28 +0000
Organization: Bias Comms
Lines: 18
Message-ID: <6pqnq5F9fetmU1@mid.individual.net>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net AepZEao174RTdlsgtYRA2QLxVQkx/+FRDX71v4iYH1Pa0g/Z3U
Cancel-Lock: sha1:s1WhL/TufknnZBvzHWC1uuFlsdY=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1396

JIMMIE wrote:

> After years of avoiding morse code I am finally getting into it. the
> ideal of operating a very simple transmitter appeals to my junkbox/
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> I am looking for a substitue for a 6L6 that has the plate brought out
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> having all kinds of problems neutralizing the the thing. I think I
> would have better luck if I can separate the grid and plate circuits
> from each other. I am considering an 807 as a replacement Suggestions
> would be appreciated.
>
> Jimmie

I'd go for a PL509 sweep output tube. I've had a kilowatt out of four of them!

Bob

```
From -1242385181404601172
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-
online.de!news.albasani.net!not-for-mail
From: Stev eH
<StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfgh
gjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbl
lyxdldf@tfif.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Date: Thu, 04 Dec 2008 21:24:37 +0000
Organization: Digital preserves music the way that formaldehyde preserves
 frogs. You kill it, and it lasts forever
Lines: 15
Message-ID: <gh9hqm$r40$1@news.albasani.net>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<gh95kc$ats$1@news.albasani.net> <ra7gj4dt1kdpau3fvgrenldl36dh39vnkh@4ax.com>
Reply-To:
StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfghg
jsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbll
yxdldf@tfif.co.uk
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
7ai0oyl8qFQGTWoZHvgpPHOiZUceP4qCdY330CADf8ATEX2LcJpHcQ987eTiRdjtGC6TpIHyk1fluf/
AD91NGHNVyFs7feWZFrW3eTkCHLs7Hm2xDQ5YOxcW2QGkCm1A
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Thu, 4 Dec 2008 21:24:38 +0000 (UTC)
X-User-ID: y9P8M5dbY5BXhEEq3IqFmrDGUk3ObBEwzp11jIcTBMY=
In-Reply-To: <ra7gj4dt1kdpau3fvgrenldl36dh39vnkh@4ax.com>
Cancel-Lock: sha1:rTYnCXYvdqfYc0t7PLEVAwyrv28=
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
X-NNTP-Posting-Host: UxOdFcufduatW0BOMm0j8TmMlb3axdW+hvLG3n8vKkg=
Xref: g2news1.google.com rec.radio.amateur.homebrew:1397

Registered User wrote:
> On Thu, 04 Dec 2008 17:56:27 +0000, Stev eH
>
<StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfgh
gjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbl
lyxdldf@tfif.co.uk>
> wrote:
>
>> The sockets for the 807 are rare
>
> The 807 uses a readily available 5 contact socket. The 1625 (12V
> equivalent) uses a 7 contact socket which can be difficult to locate.
>
> 73 de n4jvp
I'm in the UK and haven't been able to find any at the local hamfests,
where can I get them from?  Octal sockets are readily available over here.

Steve H


From 7911500837972668706
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.germany.com!newsfeed.straub-nv.de!
news.albasani.net!not-for-mail
From: Stev eH
<StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfgh
gjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbl
lyxdldf@tfif.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Date: Thu, 04 Dec 2008 22:10:01 +0000
Organization: Digital preserves music the way that formaldehyde preserves
 frogs. You kill it, and it lasts forever
Lines: 25
Message-ID: <gh9kfq$ueh$1@news.albasani.net>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<6pqnq5F9fetmU1@mid.individual.net>
Reply-To:
StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfghg
jsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbll
yxdldf@tfif.co.uk
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net fbXl6ecQS9dMmYk4iUrrJo4v4/T/sFv1B4srj7efLu+gkyHA2W/
n7AIvW2Qt/2d3iVwHlXynjoiDLJjPrNSBk5vfhlaLNVoBGfONGo0MkliPkfqekcQ//FhTTlXffndj
X-Complaints-To: abuse@albasani.net
```

```
NNTP-Posting-Date: Thu, 4 Dec 2008 22:10:02 +0000 (UTC)
X-User-ID: XprnRBepR7VWe0b6tYU5DvqdMa4EaFG23DfUF8T4YI8=
In-Reply-To: <6pqnq5F9fetmU1@mid.individual.net>
Cancel-Lock: sha1:0mYcfP7OzF6kLBBJBCI41QXfKd8=
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
X-NNTP-Posting-Host: ETQ2oYFpb4Rxht+pJp/JyYIEYnellYcEVO9RaDOzPN4=
Xref: g2news2.google.com rec.radio.amateur.homebrew:1695

Bob wrote:
> JIMMIE wrote:
>
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>> trashcan construction mentality.
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>> having all kinds of problems neutralizing the the thing. I think I
>> would have better luck if I can separate the grid and plate circuits
>> from each other. I am considering an 807 as a replacement Suggestions
>> would be appreciated.
>>
>> Jimmie
>
> I'd go for a PL509 sweep output tube.  I've had a kilowatt out of four of
> them!
>
> Bob
My first amp had 3 PL519s with a lethal power supply using a voltage
tripper direct off the 240V mains, heaters were direct off mains via a
1n5406 diode. It's still up in the parents loft somewhere, must dig it
out over the holidays and give it a try....

Steve H


From -8201556351460509561
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
news2.arglkargh.de!news.mixmin.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Date: Fri, 5 Dec 2008 01:25:50 +0100 (CET)
Organization: Mostly In Piles
Lines: 32
Message-ID: <Xns9B6ABB7CD8FA12MDWN@194.177.96.78>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
NNTP-Posting-Host: CGkD4bZU79Wm2MvzV/k6Yg.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Fri, 5 Dec 2008 00:25:50 +0000 (UTC)
User-Agent: Xnews/5.04.25
```

X-Notice: Filtered by postfilter v. 0.7.5
Xref: g2news2.google.com rec.radio.amateur.homebrew:1696

Howdy,

When you get bored of big jugs with nipples on the top, you
might try a 6T9 compactron. It's very nice for a small transmitter.
You get a high mu triode and beam power pentode in one package.
I think the pentode is good for 12W.

I'd probably use a 1625 since they're cheap from Fair Radio
and sockets... we don't need no stinking sockets!

73,
Grumpy

JIMMIE <jimmie68@gmail.com> wrote in news:9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com:

> After years of avoiding morse code I am finally getting into it. the
> ideal of operating a very simple transmitter appeals to my junkbox/
> trashcan construction mentality.
> I am looking for a substitue for a 6L6 that has the plate brought out
> the top. I was trying to build a little Glowbug transmitter but was
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> would be appreciated.
>
> Jimmie

From -935176382608976059
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!spln!extra.newsguy.com!newsp.newsguy.com!news2
From: Registered User <n4jvp@ix.netcom.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Date: Thu, 04 Dec 2008 19:30:30 -0500
Organization: subdevo.com
Lines: 26
Message-ID: <lpsgj41l2s7o9gi6d7md4uaaecbuuufcn9@4ax.com>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com> <gh95kc$ats$1@news.albasani.net> <ra7gj4dt1kdpau3fvgrenldl36dh39vnkh@4ax.com>

```
<gh9hqm$r40$1@news.albasani.net>
Reply-To: n4jvp@ix.netcom.com
NNTP-Posting-Host: p24d1bfbfff000000295c9a644d10ab27636ceb0d6aa4c12e.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Newsreader: Forte Agent 3.3/32.846
Xref: g2news2.google.com rec.radio.amateur.homebrew:1697
X-Original-Bytes: 2104

On Thu, 04 Dec 2008 21:24:37 +0000, Stev eH
<StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfgh
gjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbl
lyxdldf@tfif.co.uk>
wrote:

>Registered User wrote:
>> On Thu, 04 Dec 2008 17:56:27 +0000, Stev eH
>>
<StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfgh
gjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbl
lyxdldf@tfif.co.uk>
>> wrote:
>>
>>> The sockets for the 807 are rare
>>
>> The 807 uses a readily available 5 contact socket. The 1625 (12V
>> equivalent) uses a 7 contact socket which can be difficult to locate.
>>
>> 73 de n4jvp
>I'm in the UK and haven't been able to find any at the local hamfests,
>where can I get them from?  Octal sockets are readily available over here.
>
Hmm, I'm surprised you haven't come across any at boot sales. I'm of
no help when it comes to vendors in the UK. You might try your
favorite search engine. The first page of this search links to several
vendors including one in AU.
http://www.google.com/search?hl=en&q=5-pin+tube+socket&aq=f&oq=
eBay is another possibility.

73 de n4jvp


From -6240032639831294533
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!goblin1!goblin.stu.neva.ru!egsner!
news.cirr.com!sdf.lonestar.org!sdog2008
From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Date: Fri, 5 Dec 2008 01:26:05 +0000
```

Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 70
Message-ID: <Pine.NEB.4.64.0812050119150.21918@sdf.lonestar.org>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
NNTP-Posting-Host: sdf.lonestar.org
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: chessie.cirr.com 1228440368 1006 192.94.73.1 (5 Dec 2008 01:26:08 GMT)
X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Fri, 5 Dec 2008 01:26:08 +0000 (UTC)
In-Reply-To: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1401

On Thu, 4 Dec 2008, JIMMIE wrote:

> Date: Thu, 4 Dec 2008 06:23:48 -0800 (PST)
> From: JIMMIE <jimmie68@gmail.com>
> Newsgroups: rec.radio.amateur.homebrew
> Subject: 6L6 substitute
>
> After years of avoiding morse code I am finally getting into it. the
> ideal of operating a very simple transmitter appeals to my junkbox/
> trashcan construction mentality.
> I am looking for a substitue for a 6L6 that has the plate brought out
> the top. I was trying to build a little Glowbug transmitter but was
> having all kinds of problems neutralizing the the thing. I think I
> would have better luck if I can separate the grid and plate circuits
> from each other.

Maybe you should look at how you bypassed the screen grid to ground with a capacitor. Once I built a 6146 pentode, grounded-cathode amplifier for 160 meters and was disappointed that it went into self-oscillation. After thinking about it, and then the light bulb over my head went off, I looked and realized I did not have the screen grid bypassed to ground (what, 0.01 mfd or so?), and when I soldered one in, all of my self oscilation stopped. You should not have to worry about neutralization if you are anywhere in the HF bands (or, at the worst, maybe on ten meters).

I've built several 6AQ5, 6V6, etc., one tube, xtal-controlled
CW transmitters. All worked fine.

I am considering an 807 as a replacement Suggestions
> would be appreciated.

You might also want to check the connections to the control grid. If for some reason you have a -- for example -- cold solder joint and the control grid is actually floating, then it will oscillate all by itself, too.

> Jimmie
>

```
From -2833092254383352787
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!newsfeed.stanford.edu!
pitt.edu!egsner!news.cirr.com!sdf.lonestar.org!sdog2008
From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Date: Fri, 5 Dec 2008 01:28:06 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 88
Message-ID: <Pine.NEB.4.64.0812050126590.21918@sdf.lonestar.org>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
 <gh95kc$ats$1@news.albasani.net> <ra7gj4dt1kdpau3fvgrenldl36dh39vnkh@4ax.com>
 <gh9hqm$r40$1@news.albasani.net> <lpsgj41l2s7o9gi6d7md4uaaecbuuufcn9@4ax.com>
NNTP-Posting-Host: sdf.lonestar.org
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: chessie.cirr.com 1228440489 1012 192.94.73.1 (5 Dec 2008 01:28:09 GMT)
X-Complaints-To: abuse@cirr.com
```

NNTP-Posting-Date: Fri, 5 Dec 2008 01:28:09 +0000 (UTC)
In-Reply-To: <lpsgj41l2s7o9gi6d7md4uaaecbuuufcn9@4ax.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1402

On Thu, 4 Dec 2008, Registered User wrote:

> Date: Thu, 04 Dec 2008 19:30:30 -0500
> From: Registered User <n4jvp@ix.netcom.com>
> Newsgroups: rec.radio.amateur.homebrew
> Subject: Re: 6L6 substitute
>
> On Thu, 04 Dec 2008 21:24:37 +0000, Stev eH
>
<StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfgh
gjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbl
lyxdldf@tfif.co.uk>
> wrote:
>
>> Registered User wrote:
>>> On Thu, 04 Dec 2008 17:56:27 +0000, Stev eH
>>>
<StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfgh
gjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbl
lyxdldf@tfif.co.uk>
>>> wrote:
>>>
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>>>
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>>>
>>> 73 de n4jvp
>> I'm in the UK and haven't been able to find any at the local hamfests,
>> where can I get them from? Octal sockets are readily available over here.
>>
> Hmm, I'm surprised you haven't come across any at boot sales. I'm of
> no help when it comes to vendors in the UK. You might try your
> favorite search engine. The first page of this search links to several
> vendors including one in AU.
> http://www.google.com/search?hl=en&q=5-pin+tube+socket&aq=f&oq=
> eBay is another possibility.
>
> 73 de n4jvp
>

Might try Fair Radio Sales, in Lima Ohio (USA). I think www.fairradio.com,
and they do (most of the time) answer email. They have stuff that is not
in the catalog, too.

From -8043775878529693062
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!

post01.iad.highwinds-media.com!newsfe12.iad.POSTED!7564ea0f!not-for-mail
From: "NoSPAM" <unknown@nospam.org>
Newsgroups: rec.radio.amateur.homebrew
Followup-To: rec.radio.amateur.homebrew
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<6pqnq5F9fetmU1@mid.individual.net> <gh9kfq$ueh$1@news.albasani.net>
In-Reply-To: <gh9kfq$ueh$1@news.albasani.net>
Subject: Re: 6L6 substitute
Lines: 35
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MIMEOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
X-RFC2646: Format=Flowed; Response
Message-ID: <6j0_k.43032$zQ3.33628@newsfe12.iad>
NNTP-Posting-Host: jnibogphckphemgkkgknfdakiclijcld
X-Complaints-To: abuse@charter.net
X-Trace:
dolmjbnehhedbigjfkhgnhldfhiklkaliinhiacdbgiagogljnibogphckphemgkfllejjhdijjjcbpjoc
amnepmfjiapmpgogcofbnhmhlejmoglaniffgdjmmcdelkfengolcelnpbekad
NNTP-Posting-Date: Fri, 05 Dec 2008 02:26:10 UTC
Date: Thu, 4 Dec 2008 21:26:11 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1403

"Stev eH"
<StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfgh
gjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbl
lyxdldf@tfif.co.uk>
wrote in message news:gh9kfq$ueh$1@news.albasani.net...
> My first amp had 3 PL519s with a lethal power supply using a voltage
> tripp{l}er direct off the 240V mains, heaters were direct off mains via a
> 1n5406 diode. It's still up in the parents loft somewhere, must dig it
> out over the holidays and give it a try....
>
> Steve H

Do you realize that the RMS value of half-wave rectified AC is not one half
of the applied RMS voltage but rather 0.707 of the applied RMS voltage. So
your three 40 volt filament PL519s actually saw about 56 volts RMS across
each filament. I'll bet you wondered why the filaments were so bright.

To properly measure this voltage, you need a true RMS voltmeter. Most
inepensive AC voltmeters actually measure the peak voltage and display the
result on a scale calibrated for a sine wave input. RMS (root mean square)
is the equivalent DC voltage that would produce the same HEATING in a
resistance as the applied waveform.

Most hams are quite confused by this. Looking over some websites
explaining this, one of the better ones is a Google Book Search of
"Electric Machinery Fundamentals" by Stephen J. Chapman who presents the
mathematics in detail starting on page 163:
http://books.google.com/books?

id=ltg6QWnn2_4C&pg=PA163&lpg=PA163&dq=RMS+value+of+half+wave+rectified+AC&source=web&ots=MAd5Qt1_Qr&sig=qj4RhhaoT6OgA34lCcYxK2cy18k&hl=en&sa=X&oi=book_result&resnum=10&ct=result

As an interesting side note, the Philips datasheet on the PL519 is the
first I have seen that explicitly discusses Barkhausen interference and how
to suppress it.

73, Dr. Barry L. Ornitz   WA4VZQ

From 6862786900425428567
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
87.106.161.54.MISMATCH!feeder1.news.weretis.net!newsfeeder.dynfx.net!weretis.net!
news.buerger.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Date: Fri, 5 Dec 2008 04:28:14 +0100 (CET)
Organization: Mostly In Piles
Lines: 19
Message-ID: <Xns9B6ADA690E12A2MDWN@194.177.96.78>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<6pqnq5F9fetmU1@mid.individual.net> <gh9kfq$ueh$1@news.albasani.net>
<6j0_k.43032$zQ3.33628@newsfe12.iad>
NNTP-Posting-Host: CGkD4bZU79Wm2MvzV/k6Yg.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Fri, 5 Dec 2008 03:28:14 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.5
Xref: g2news2.google.com rec.radio.amateur.homebrew:1701

"NoSPAM" <unknown@nospam.org> wrote in
news:6j0_k.43032$zQ3.33628@newsfe12.iad:

snips
> "Electric Machinery Fundamentals" by Stephen J. Chapman who presents
> the mathematics in detail starting on page 163:

snips

Howdy,

Coincidence! That book is on my kitchen table at the moment.
It's ok, but this is probably more suited to the purpose;
http://www.tpub.com/neets/book7/27a.htm

73,Grumpy

From -5492163270554566267
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!news.astraweb.com!
border2.newsrouter.astraweb.com!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: 6L6 substitute
Date: Thu, 04 Dec 2008 22:25:25 -0800
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.12.05.06.25.23.830720@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<gh95kc$ats$1@news.albasani.net> <ra7gj4dt1kdpau3fvgrenldl36dh39vnkh@4ax.com>
<gh9hqm$r40$1@news.albasani.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 24
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 739b7f4c.news.astraweb.com
X-Trace: DXC=l<\b@81E68]1IA2mQNenURL?
0kYOcDh@Z_d>jF6@cXiUfm4VOD<6AgQFDS<UL7kA@\nh2cCTA><0_SoJVkR6Z=:Ye;<U3`DH`6^
Xref: g2news1.google.com rec.radio.amateur.homebrew:1405

On Thu, 04 Dec 2008 21:24:37 +0000, Stev eH wrote:

> Registered User wrote:
>> On Thu, 04 Dec 2008 17:56:27 +0000, Stev eH
>>
<StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfgh
gjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbl
lyxdldf@tfif.co.uk>
>> wrote:
>>
>>> The sockets for the 807 are rare
>>
>> The 807 uses a readily available 5 contact socket. The 1625 (12V
>> equivalent) uses a 7 contact socket which can be difficult to locate.
>>
>> 73 de n4jvp
> I'm in the UK and haven't been able to find any at the local hamfests,
> where can I get them from? Octal sockets are readily available over here.
>
> Steve H

I have some. How many you need?

Cheers,

Gregg

From -4096730012241220130
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!v42g2000yqv.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Date: Fri, 5 Dec 2008 06:10:54 -0800 (PST)
Organization: http://groups.google.com
Lines: 22
Message-ID: <2e970708-85ce-41e6-9015-f51585bb1f6e@v42g2000yqv.googlegroups.com>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<gh95kc$ats$1@news.albasani.net> <ra7gj4dt1kdpau3fvgrenldl36dh39vnkh@4ax.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1228486254 11645 127.0.0.1 (5 Dec 2008 14:10:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 5 Dec 2008 14:10:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v42g2000yqv.googlegroups.com; posting-host=170.121.14.12;
posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1703

On Dec 4, 1:20=A0pm, Registered User <n4...@ix.netcom.com> wrote:
> On Thu, 04 Dec 2008 17:56:27 +0000, Stev eH
> <StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjz=
sd=ADgfgsfghgjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfg=
hvbly=ADrylxybvryvbfbllyxd...@tfif.co.uk>
> wrote:
>
> >The sockets for the 807 are rare
>
> The 807 uses a readily available 5 contact socket. The 1625 (12V
> equivalent) uses a 7 contact socket which can be difficult to locate.

Chinese Ceramic 5- and 7-pin sockets for 807's and 1625's are readily
available. e.g. P-ST5-216 and P-ST7-311 from Antique Electronic
Supply, or the same thing from ESRC on Ebay, items 130273824548 and
130273500741, or similar thigns from at least a dozen other web

suppliers. (Antique Electronic Supply and ESRC I've been doing
business with for many years). Vintage ceramic sockets from the 40's
and 50's made by EF Johnson etc. turn up at hamfests pretty regularly
too.

Tim N3QE

From 8849407503729424458
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 05 Dec 2008 10:24:11 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: 6L6 substitute
Newsgroups: rec.radio.amateur.homebrew
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <29SdnaLYCv02yKTUnZ2dnUVZ_gqdnZ2d@web-ster.com>
Date: Fri, 05 Dec 2008 10:24:11 -0600
Lines: 31
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
PUDqx2PKAEZWOrOscnPm9JYb7PDmAV8XVRftgg8aahLCVMfsbOZvtz+7OR16AzOXw4HxtWbURDrGiG1!
jSyjbVUgB3gfbcucngpJO41F7ON/1Hb89eGbzdfBgPegdBGJd9c6Na9bx7RXT9KARP4Q54X6nkHQ!
Gf0M9brcCjRxQk4=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:1704

On Thu, 04 Dec 2008 06:23:48 -0800, JIMMIE wrote:

> After years of avoiding morse code I am finally getting into it. the
> ideal of operating a very simple transmitter appeals to my junkbox/
> trashcan construction mentality.
> I am looking for a substitue for a 6L6 that has the plate brought out
> the top. I was trying to build a little Glowbug transmitter but was
> having all kinds of problems neutralizing the the thing. I think I would
> have better luck if I can separate the grid and plate circuits from each
> other. I am considering an 807 as a replacement Suggestions would be
> appreciated.
>
> Jimmie

Dunno if it's been mentioned yet -- 2E26. The 807 is _not_ a 6L6 in a different envelope -- it's quit arguably the 6L6's big brother, but it's got different ratings; it could probably be shoe-horned into a circuit designed for the 6L6, but you'd be missing out on about 6dB of final output power.

Antique Electronics Supply has 2E26's for $6.00 each, so it's not a bad buy -- and the 2E26 goes into an octal socket.

--
Tim Wescott
Control systems and communications consulting
http://www.wescottdesign.com

Need to learn how to apply control theory in your embedded system?
"Applied Control Theory for Embedded Systems" by Tim Wescott
Elsevier/Newnes, http://www.wescottdesign.com/actfes/actfes.html

```
From -8754824954325240772
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 05 Dec 2008 10:28:43 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: 6L6 substitute
Newsgroups: rec.radio.amateur.homebrew
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <29Sdnd3YCv0my6TUnZ2dnUVZ_gqdnZ2d@web-ster.com>
Date: Fri, 05 Dec 2008 10:28:43 -0600
Lines: 32
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-sGOGNwiSUVTYRsyeOVREcsqH7r7/EedStCxRvjTjUn9vx6nnam+B/
+okRUIiuDeHNLZTffF2jeMJg+l!
96daRlp9XPPt7Q44aGNripNeULEYguTVxtepiGrXPEBTYFDH9GRJxkBaLd4cTlLsWJNdNgMNkQCX!
fGSlBg10tQK6sG8=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:1705
```

On Thu, 04 Dec 2008 06:23:48 -0800, JIMMIE wrote:

> After years of avoiding morse code I am finally getting into it. the
> ideal of operating a very simple transmitter appeals to my junkbox/
> trashcan construction mentality.

> I am looking for a substitue for a 6L6 that has the plate brought out
> the top. I was trying to build a little Glowbug transmitter but was
> having all kinds of problems neutralizing the the thing. I think I would
> have better luck if I can separate the grid and plate circuits from each
> other. I am considering an 807 as a replacement Suggestions would be
> appreciated.
>
> Jimmie

Have you considered a 6L6 with careful shielding at the socket? IIRC the pins that neighbor the plate pin would be at RF potential; you could put a big, flat, high-value ceramic right between those socket pins to shield the grid, and possible even extend the shield out if you were willing to hand-make a cap from copper strip and Kapton tape.

It's kinda heroic measures to take on a tube that's more expensive now than it's "high-tech" RF brethren, but if you just gotta have that metal-tube look it may do the trick.

--
Tim Wescott
Control systems and communications consulting
http://www.wescottdesign.com

Need to learn how to apply control theory in your embedded system?
"Applied Control Theory for Embedded Systems" by Tim Wescott
Elsevier/Newnes, http://www.wescottdesign.com/actfes/actfes.html

From 2002209301785153295
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!20g2000yqt.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Date: Fri, 5 Dec 2008 09:16:59 -0800 (PST)
Organization: http://groups.google.com
Lines: 42
Message-ID: <bec827ed-f2d7-4754-abfe-684b92916ba9@20g2000yqt.googlegroups.com>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
     <29Sdnd3YCv0my6TUnZ2dnUVZ_gqdnZ2d@web-ster.com>
NNTP-Posting-Host: 155.178.6.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1228497420 30162 127.0.0.1 (5 Dec 2008 17:17:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 5 Dec 2008 17:17:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 20g2000yqt.googlegroups.com; posting-host=155.178.6.10;

```
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.4)
     Gecko/2008102920 Firefox/3.0.4,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1409

On Dec 5, 11:28=A0am, Tim Wescott <t...@seemywebsite.com> wrote:
> On Thu, 04 Dec 2008 06:23:48 -0800, JIMMIE wrote:
> > After years of avoiding morse code I am finally getting into it. the
> > ideal of operating a very simple transmitter appeals to my junkbox/
> > trashcan construction mentality.
> > I am looking for a substitue for a 6L6 that has the plate brought out
> > the top. I was trying to build a little Glowbug transmitter but was
> > having all kinds of problems neutralizing the the thing. I think I woul=
d
> > have better luck if I can separate the grid and plate circuits from eac=
h
> > other. I am considering an 807 as a replacement Suggestions would be
> > appreciated.
>
> > Jimmie
>
> Have you considered a 6L6 with careful shielding at the socket? =A0IIRC t=
he
> pins that neighbor the plate pin would be at RF potential; you could put
> a big, flat, high-value ceramic right between those socket pins to shield
> the grid, and possible even extend the shield out if you were willing to
> hand-make a cap from copper strip and Kapton tape.
>
> It's kinda heroic measures to take on a tube that's more expensive now
> than it's "high-tech" RF brethren, but if you just gotta have that metal-
> tube look it may do the trick.
>
> --
> Tim Wescott
> Control systems and communications consultinghttp://www.wescottdesign.com
>
> Need to learn how to apply control theory in your embedded system?
> "Applied Control Theory for Embedded Systems" by Tim Wescott
> Elsevier/Newnes,http://www.wescottdesign.com/actfes/actfes.html

I have a NOS 6DQ6 I can use in place of the 6L6s. I think they will
work. the biggest problem will be relocating the plate circuit. I will
have to add a front panel to my "fool killer" to hold the tuning
caps.


Jimmie


From -5741334352889717804
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!news.germany.com!
news.musoftware.de!wum.musoftware.de!news.albasani.net!not-for-mail
From: Stev eH
<StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfgh
gjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbl
lyxdldf@tfif.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Date: Fri, 05 Dec 2008 17:27:27 +0000
Organization: Digital preserves music the way that formaldehyde preserves
 frogs. You kill it, and it lasts forever
Lines: 29
Message-ID: <ghboa1$9a5$1@news.albasani.net>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<gh95kc$ats$1@news.albasani.net> <ra7gj4dt1kdpau3fvgrenldl36dh39vnkh@4ax.com>
<gh9hqm$r40$1@news.albasani.net>
<pan.2008.12.05.06.25.23.830720@localhost.localdomain>
Reply-To:
StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfghg
jsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbll
yxdldf@tfif.co.uk
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
455V5I1lMGbrTjqEqbjC1Daduj4rH8HT0HnYXzHsKo+TlM2B7EmTuFhDc0e6C+Scq9Ph0M7Xfn130iWkVn
8tZO+uMYwzmu1p18Oc224qUk3eaDCOApyXkbJmrEarrxq0
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Fri, 5 Dec 2008 17:27:29 +0000 (UTC)
X-User-ID: 3iYesFQxF2bCBJjD16QeF/Cdh1ctQjSoJAC0smfLwnY=
In-Reply-To: <pan.2008.12.05.06.25.23.830720@localhost.localdomain>
Cancel-Lock: sha1:DBoRUwV/Ou3k0QpiEf9NoCH6dxw=
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
X-NNTP-Posting-Host: 97eVulp8CyOTv+3AIZuM6wnITGpxAZc9+ZTjYLfd24A=
Xref: g2news2.google.com rec.radio.amateur.homebrew:1707

geek wrote:
> On Thu, 04 Dec 2008 21:24:37 +0000, Stev eH wrote:
>
>> Registered User wrote:
>>> On Thu, 04 Dec 2008 17:56:27 +0000, Stev eH
>>>
<StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfgh
gjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbl
lyxdldf@tfif.co.uk>
>>> wrote:
>>>
>>>> The sockets for the 807 are rare
>>> The 807 uses a readily available 5 contact socket. The 1625 (12V
>>> equivalent) uses a 7 contact socket which can be difficult to locate.
>>>
>>> 73 de n4jvp

```
>> I'm in the UK and haven't been able to find any at the local hamfests,
>> where can I get them from?  Octal sockets are readily available over here.
>>
>> Steve H
>
> I have some. How many you need?
>
> Cheers,
>
> Gregg
>
I could do with a pair, I have several 807 in the junk box and the look
far better to me than the "Modern" style of valve.  The email address is
valid BTW.

Steve H



From -3946928915884218112
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Thread: 106d41,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,gid106d41,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!x38g2000yqj.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb,rec.radio.amateur.equipment
Subject: Re: VoiceMax Speech Processor
Date: Fri, 5 Dec 2008 10:04:30 -0800 (PST)
Organization: http://groups.google.com
Lines: 65
Message-ID: <d6511cf0-1b00-4906-b953-86b366b5da03@x38g2000yqj.googlegroups.com>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
     <10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
     <tZgXk.6309$W06.728@flpi148.ffdc.sbc.com> <020a50e0-c5ad-4a71-8e59-
eb90b328855d@z1g2000yqn.googlegroups.com>
     <ggmekg$fmh$1@news.albasani.net> <47ae8004-
a482-406b-99fb-31fb85ed9222@20g2000yqt.googlegroups.com>
     <ggn7sd$eu2$1@news.albasani.net> <c227abd5-71b7-4351-aff0-
f50ce28999bd@s20g2000yqh.googlegroups.com>
     <046342db-07ed-476e-875e-468d8b576a21@y1g2000pra.googlegroups.com>
     <190175b5-13d0-4767-9d43-4adb2874f545@20g2000yqt.googlegroups.com>
     <00da575c-7189-4369-8eed-bc0b7a9ea78f@t11g2000yqg.googlegroups.com>
     <20081129174111.728$gv@newsreader.com> <7ed1b40c-3269-4713-a1ea-
a4b1e2a72a6e@l39g2000yqn.googlegroups.com>
NNTP-Posting-Host: 155.178.5.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1228500271 5834 127.0.0.1 (5 Dec 2008 18:04:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 5 Dec 2008 18:04:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
```

```
Injection-Info: x38g2000yqj.googlegroups.com; posting-host=155.178.5.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.4)
     Gecko/2008102920 Firefox/3.0.4,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1708 rec.radio.cb:6136
rec.radio.amateur.equipment:1135

On Dec 3, 4:51=A0pm, raypsi <RBorow...@gmail.com> wrote:
> On Nov 29, 5:42 pm, Steve <moparho...@hotmail.com> wrote:
>
>
>
>
>
>
>
> > JIMMIE <jimmi...@gmail.com> wrote:
> > > On Nov 29, 9:44=3DA0am, Telstar Electronics <briangrif...@sbcglobal.n=
et>
> > > wrote:
> > > > > So did Mouser assist you in the design, or put up money to market=
 you
> > > > > splatter circuit? Do they get a cut of your business? Do they sel=
l
> > > > > your junk in their catalog? Or is your only partnership just that=
 you
> > > > > order parts from them? Do they even know what you order parts for=
?
> > > > > Partner with Mouser, yeah right, just more telestar hype.
>
> > > > Commander... Like I said earlier... the dictionary defines partner =
as
> > > > "One that is united or associated
> > > > with another or others in an activity or a sphere of common interes=
t."
> > > > I guess you're not able to comprehend that sentence. Not really
> > > > surprising. If you're looking for an argument... I only argue with
> > > > worthwhile adversaries... lol
>
> > > Perhaps Mouser should be informed of this claim to partnership. They
> > > may very interested.
>
> > > Jimmie
>
> > Oh no, are you going to report him to Mouser?
>
> > --
> > =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0http://NewsReader.Com/
>
> Hey OM
>
> well I tell you what let's say a certain company is running
```

> racketeering like some big electronics firm.
> This racket involves taking peoples money and laundering it then
> giving it back after it's been laundered. Now lets say you partnered
> with this company then you too would be guilty of racketeering =A0which
> under RICO laws is a felony.
>
> So in the end your so called definition of partner would fall under
> the guise of RICO and you will go to jail for a real long time and
> your best friend in jail will be bubba.
>
> In other words your guilty by association.
>
> 73 OM
>
> n8zu

Thats happened, when you raid a cathouse you get the piano player too.
Perhaps one could prove their disassociation enough to stay out of
jail but your lawyer may be putting a new addition on his house and
dedicating it to you.

```
From -2391272161216160259
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!j32g2000yqn.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Date: Fri, 5 Dec 2008 12:50:34 -0800 (PST)
Organization: http://groups.google.com
Lines: 13
Message-ID: <535f4dfe-0fef-4e06-95e6-36fb5ce2cacb@j32g2000yqn.googlegroups.com>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
     <gh95kc$ats$1@news.albasani.net> <ra7gj4dt1kdpau3fvgrenldl36dh39vnkh@4ax.com>
     <gh9hqm$r40$1@news.albasani.net>
<pan.2008.12.05.06.25.23.830720@localhost.localdomain>
     <ghboa1$9a5$1@news.albasani.net>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1228510235 20934 127.0.0.1 (5 Dec 2008 20:50:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 5 Dec 2008 20:50:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j32g2000yqn.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:1709

On Dec 5, 12:27=A0pm, Stev eH

> I could do with a pair, I have several 807 in the junk box and the look
> far better to me than the "Modern" style of valve.

Even modern Chinese-made 807's have the ST glass shape.

The one that is not sexy is the 807W.

My favorite book of tube pr0n is "RCA Air-Cooled Transmitting Tubes",
TT3. Great big full-page engravings of the best tubes. Worth all 25
cents.

Tim.

From 503287045521753435
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Thread: 106d41,fc6cbb34a018c5bc
X-Google-Thread: 108122,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,gid106d41,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!news-xxxfer.readnews.com!transit4.readnews.com!news-out.readnews.com!postnews3.readnews.com!nr5c.newsreader.com.POSTED!not-for-mail
Subject: Re: VoiceMax Speech Processor
From: Steve <moparholic@hotmail.com>
Organization: essb audio
Message-ID: <20081205192241.772$qD@newsreader.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb,rec.radio.amateur.equipment
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com> <10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com> <tZgXk.6309$W06.728@flpi148.ffdc.sbc.com> <020a50e0-c5ad-4a71-8e59-eb90b328855d@z1g2000yqn.googlegroups.com> <ggmekg$fmh$1@news.albasani.net> <47ae8004-a482-406b-99fb-31fb85ed9222@20g2000yqt.googlegroups.com> <ggn7sd$eu2$1@news.albasani.net> <c227abd5-71b7-4351-aff0-f50ce28999bd@s20g2000yqh.googlegroups.com> <046342db-07ed-476e-875e-468d8b576a21@y1g2000pra.googlegroups.com> <190175b5-13d0-4767-9d43-4adb2874f545@20g2000yqt.googlegroups.com> <00da575c-7189-4369-8eed-bc0b7a9ea78f@t11g2000yqg.googlegroups.com> <20081129174111.728$gv@newsreader.com> <7ed1b40c-3269-4713-a1ea-a4b1e2a72a6e@l39g2000yqn.googlegroups.com>
X-NRC-Trace: NewsReader.Com y52Ep6BZsFRu40GR05BmSoy+tiQM4zi1HfqL@cjY-XV48U
Date: 06 Dec 2008 00:23:43 GMT
Lines: 58
NNTP-Posting-Host: 007722fb.nr5c.newsreader.com
X-Trace: DXC=KVSeG`[MMOdgANm88P;Z?dTBAE>]OkP]m_U[i288Bd=hie>QonokMnch?P8;AJZT_hg_TfMHQMcfa
X-Complaints-To: abuse@newsreader.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:1710 rec.radio.cb:6144 rec.radio.amateur.equipment:1136

raypsi <RBorowiak@gmail.com> wrote:
> On Nov 29, 5:42 pm, Steve <moparho...@hotmail.com> wrote:
> > JIMMIE <jimmi...@gmail.com> wrote:
> > > On Nov 29, 9:44=A0am, Telstar Electronics
> > > <briangrif...@sbcglobal.net> wrote:
> > > > > > So did Mouser assist you in the design, or put up money to market
> > > > > > you splatter circuit? Do they get a cut of your business? Do they
> > > > > > sell your junk in their catalog? Or is your only partnership just
> > > > > > that you order parts from them? Do they even know what you order
> > > > > > parts for? Partner with Mouser, yeah right, just more telestar
> > > > > > hype.
> >
> > > > > Commander... Like I said earlier... the dictionary defines partner
> > > > > as "One that is united or associated
> > > > > with another or others in an activity or a sphere of common
> > > > > interest." I guess you're not able to comprehend that sentence. Not
> > > > > really surprising. If you're looking for an argument... I only
> > > > > argue with worthwhile adversaries... lol
> >
> > > > Perhaps Mouser should be informed of this claim to partnership. They
> > > > may very interested.
> >
> > > > Jimmie
> >
> > Oh no, are you going to report him to Mouser?
> >
> > --
> >   http://NewsReader.Com/
>
> Hey OM
>
> well I tell you what let's say a certain company is running
> racketeering like some big electronics firm.
> This racket involves taking peoples money and laundering it then
> giving it back after it's been laundered. Now lets say you partnered
> with this company then you too would be guilty of racketeering which
> under RICO laws is a felony.
>
> So in the end your so called definition of partner would fall under
> the guise of RICO and you will go to jail for a real long time and
> your best friend in jail will be bubba.
>
> In other words your guilty by association.
>
> 73 OM
>
> n8zu
>
Hello zu,

You're right about the guilt by association, just look at what happened to
OJ Simpsons' friend today. 15 years is along way to go for a ride along.

73
Steve.

--
http://NewsReader.Com/

```
From -1504701572390172717
X-Google-Thread: fc2a5,63f59b4c8f748dff,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!n10g2000yqm.googlegroups.com!not-for-mail
From: Dirac1pt6@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Ganged variable capacitor question
Date: Fri, 5 Dec 2008 16:34:24 -0800 (PST)
Organization: http://groups.google.com
Lines: 20
Message-ID: <98045ffa-4dfe-40a3-8500-807e47b518a2@n10g2000yqm.googlegroups.com>
NNTP-Posting-Host: 151.199.247.192
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1228523664 6865 127.0.0.1 (6 Dec 2008 00:34:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 6 Dec 2008 00:34:24 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n10g2000yqm.googlegroups.com; posting-host=151.199.247.192;
     posting-account=ALWtmgoAAABBV9RuYxwp2cEOz3ovgo2L
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.0.14eol)
     Gecko/20070505 (Debian-1.8.0.15~pre080614d-0etch1) Epiphany/2.14,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1711
```

Dear all,
I am just taking my first small steps into homebrew and learning as much as I can, but I have run into a problem that has me stumped. I'm seeing some odd behavior with a variable air capacitor (first time I have played with one of these), and have not been able to hunt down anything relevant searching the net, so I am hoping someone out there might be able to help me understand this. It is a 6 gang model with sections of 120,150,20,30,90,and 30 pf. I was able to use a continuity meter to work out the lugs, and found that the rotor is continuous with the frame, and stator is isolated into 6 seperate sections with no continuity between the rotor and stator. I assumed that I could jump the stator lugs (none of which are continuous with the rotor) with some copper wire to add up the gangs, but when I do this the continuity meter tells me that the rotor and stator are connected. It only happens to the gangs that I jump. I was expecting continuity between the stator segments of the jumped gangs, but not between the stator and rotor. Can anyone let me know if this is an

expected result, and if not suggest what I might be doing wrong?
Thanks in advance for your help.
Rusty.

From -5029153901430094901
X-Google-Thread: fc2a5,63f59b4c8f748dff
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.visi!news.posted.visi.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 05 Dec 2008 19:39:24 -0600
From: "Bob Liesenfeld" <wb0poq@visi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <98045ffa-4dfe-40a3-8500-807e47b518a2@n10g2000yqm.googlegroups.com>
Subject: Re: Ganged variable capacitor question
Date: Fri, 5 Dec 2008 19:39:27 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <ot6dndwCbftRSqTUnZ2dnUVZ_oTinZ2d@posted.visi>
Lines: 39
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 209.98.172.152
X-Trace: sv3-
TwmUREjIa99KjCgDmewMZiQpRfKttOa5YiiBhQUIM7PAJI8bHRhGYsTmVDdEKAUzMzKlv3Hf9QdK2ON!
zim+Ba2aH3JahX3hPhHUkJ2u4muowumZQSs1iUVsJZHqfOuvVtf3odl86uVgE9yIPSdIRbOOCOoH!wRKc
X-Complaints-To: abuse@visi.com
X-DMCA-Complaints-To: abuse@visi.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:1712

Rusty,
  That is an odd result...Are you certain that you don't have a stray wire
touching the frame somewhere?
If you measure an open from two gangs to the frame, and then jumper those
two gangs, measure a short, and then cut (not desolder) the wire connecting
them, are both stators still open with respect to the frame?
Are there trimmer capacitors connected from each gang to the frame (screws
with a thin mica insulator between the plates)? If so, perhaps you are
damaging them when you solder wires to the stator lugs. (Assuming you are
soldering).
Let us know how this comes out. Homebrewing is great.

Bob WB0POQ

```
<Dirac1pt6@aol.com> wrote in message
news:98045ffa-4dfe-40a3-8500-807e47b518a2@n10g2000yqm.googlegroups.com...
> Dear all,
> I am just taking my first small steps into homebrew and learning as
> much as I can, but I have run into a problem that has me stumped.  I'm
> seeing some odd behavior with a variable air capacitor (first time I
> have played with one of these), and have not been able to hunt down
> anything relevant searching the net, so I am hoping someone out there
> might be able to help me understand this.  It is a 6 gang model with
> sections of 120,150,20,30,90,and 30 pf.  I was able to use a
> continuity meter to work out the lugs, and found that the rotor is
> continuous with the frame, and stator is isolated into 6 seperate
> sections with no continuity between the rotor and stator.  I assumed
> that I could jump the stator lugs (none of which are continuous with
> the rotor) with some copper wire to add up the gangs, but when I do
> this the continuity meter tells me that the rotor and stator are
> connected.  It only happens to the gangs that I jump.  I was expecting
> continuity between the stator segments of the jumped gangs, but not
> between the stator and rotor.  Can anyone let me know if this is an
> expected result, and if not suggest what I might be doing wrong?
> Thanks in advance for your help.
> Rusty.
```

```
From 1860182453092902035
X-Google-Thread: fc2a5,63f59b4c8f748dff
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
d14g2000yqb.googlegroups.com!not-for-mail
From: Dirac1pt6@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ganged variable capacitor question
Date: Fri, 5 Dec 2008 18:52:54 -0800 (PST)
Organization: http://groups.google.com
Lines: 12
Message-ID: <75eb931e-74df-4503-a39a-88959e734697@d14g2000yqb.googlegroups.com>
References: <98045ffa-4dfe-40a3-8500-807e47b518a2@n10g2000yqm.googlegroups.com>
     <ot6dndwCbftRSqTUnZ2dnUVZ_oTinZ2d@posted.visi>
NNTP-Posting-Host: 151.199.247.192
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1228531974 21809 127.0.0.1 (6 Dec 2008 02:52:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 6 Dec 2008 02:52:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d14g2000yqb.googlegroups.com; posting-host=151.199.247.192;
     posting-account=ALWtmgoAAABBV9RuYxwp2cEOz3ovgo2L
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.0.14eol)
```

```
     Gecko/20070505 (Debian-1.8.0.15~pre080614d-0etch1) Epiphany/
2.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1416
```

Bob,
I think I just sent you an email by mistake when I was trying to post a reply (sorry about that). In case anyone else is interested, it turns out that the suggestion to cut the wire instead of desoldering led me to find that just heating the lug could recreate the short. Apparently there is some solder on the inside of the capacitor that caused the short after it melted when I was adding the jumper wire. Desoldering the wire must have coincidentally reversed this. I was able to heat and tap to get rid of the short and all seems to be working now.
Thanks for the help,
Rusty.

```
From 6446442574154523509
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!news.astraweb.com!
border2.newsrouter.astraweb.com!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: 6L6 substitute
Date: Fri, 05 Dec 2008 20:23:26 -0800
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.12.06.04.23.20.470395@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<gh95kc$ats$1@news.albasani.net> <ra7gj4dt1kdpau3fvgrenldl36dh39vnkh@4ax.com>
<gh9hqm$r40$1@news.albasani.net>
<pan.2008.12.05.06.25.23.830720@localhost.localdomain>
<ghboa1$9a5$1@news.albasani.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 42
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: fcd2247f.news.astraweb.com
X-Trace: DXC=E4`5MC[]SQd5ljRKX^a8BhL?
0kYOcDh@jTG5oCeeJ@liHnkUZAR=oQfFDS<UL7kA@lnh2cCTA><0oVQFea=Z3b3bl@gV8R1F;ll
Xref: g2news2.google.com rec.radio.amateur.homebrew:1714
```

On Fri, 05 Dec 2008 17:27:27 +0000, Stev eH wrote:

```
> geek wrote:
>> On Thu, 04 Dec 2008 21:24:37 +0000, Stev eH wrote:
>>
>>> Registered User wrote:
>>>> On Thu, 04 Dec 2008 17:56:27 +0000, Stev eH
>>>>
```

```
<StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfgh
gjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbl
lyxdldf@tfif.co.uk>
>>>> wrote:
>>>>
>>>>> The sockets for the 807 are rare
>>>> The 807 uses a readily available 5 contact socket. The 1625 (12V
>>>> equivalent) uses a 7 contact socket which can be difficult to locate.
>>>>
>>>> 73 de n4jvp
>>> I'm in the UK and haven't been able to find any at the local hamfests,
>>> where can I get them from?  Octal sockets are readily available over here.
>>>
>>> Steve H
>>
>> I have some. How many you need?
>>
>> Cheers,
>>
>> Gregg
>>
> I could do with a pair, I have several 807 in the junk box and the look
> far better to me than the "Modern" style of valve.  The email address is
> valid BTW.
>
> Steve H

Hi Steve,

Sent you an email :-)

Mine is geek <at> scorpiorising <dot> ca  if you don't get it.

Cheers,

Gregg




From 8593909167642749556
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews7.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<gh95kc$ats$1@news.albasani.net>
```

```
In-Reply-To: <gh95kc$ats$1@news.albasani.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 20
Message-ID: <GSw_k.4664$n_5.4380@bignews7.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
enggpaojkliedbjjdbdpiflmbcekedmfhojhikkbagflhcbocpgokimkdehepopjfjcbmomclaoomcmmdf
klpnickmioilafgkijmcjgblkkcjmfihbbjoldfngcmehngmmgeahdcpbfcbpponlccicdnhdddkbb
NNTP-Posting-Date: Sat, 06 Dec 2008 10:28:38 EST
Organization: BellSouth Internet Group
Date: Sat, 06 Dec 2008 10:36:05 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1418

Stev eH wrote:
> JIMMIE wrote:
>> After years of avoiding morse code I am finally getting into it. the
>> ideal of operating a very simple transmitter appeals to my junkbox/
>> trashcan construction mentality.
>> I am looking for a substitute for a 6L6 that has the plate brought out
>> the top. I was trying to build a little Glowbug transmitter but was
>> having all kinds of problems neutralizing the the thing. I think I
>> would have better luck if I can separate the grid and plate circuits
>> from each other. I am considering an 807 as a replacement Suggestions
>> would be appreciated.
>>
>> Jimmie
> An 807 IS a 6L6 with a top cap anode connection. Any of the TV line
> output valves will also do the job if you want cheap, the 6DQ6B works
> well and has an octal base (The sockets for the 807 are rare).
> 6146 or 2e26 etc work well but will cost you more.
>
> Steve H
The 6BG6G / GA sweep tube is identical to the 6L6G but with a top plate cap.


From 8554986385340871985
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews7.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<29SdnaLYCv02yKTUnZ2dnUVZ_gqdnZ2d@web-ster.com>
In-Reply-To: <29SdnaLYCv02yKTUnZ2dnUVZ_gqdnZ2d@web-ster.com>
Content-Type: text/plain; charset=UTF-8; format=flowed
```

Content-Transfer-Encoding: 7bit
Lines: 63
Message-ID: <5gx_k.4672$n_5.1973@bignews7.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
enggpaojkliedbjjdbdpiflmbcekedmfhojhikkbagflhcboamkhbohlondemkkcbcjhjhfbdgakjgbkdf
klpnickmioilafgkijmcjgblkkcjmfihbbjoldfngcmehnbhpckbgpnlbnlbmkhdababebmbgeeiji
NNTP-Posting-Date: Sat, 06 Dec 2008 10:55:45 EST
Organization: BellSouth Internet Group
Date: Sat, 06 Dec 2008 11:03:12 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1716

Tim Wescott wrote:
> On Thu, 04 Dec 2008 06:23:48 -0800, JIMMIE wrote:
>
>> After years of avoiding morse code I am finally getting into it. the
>> ideal of operating a very simple transmitter appeals to my junkbox/
>> trashcan construction mentality.
>> I am looking for a substitue for a 6L6 that has the plate brought out
>> the top. I was trying to build a little Glowbug transmitter but was
>> having all kinds of problems neutralizing the the thing. I think I would
>> have better luck if I can separate the grid and plate circuits from each
>> other. I am considering an 807 as a replacement Suggestions would be
>> appreciated.
>>
>> Jimmie
>
> Dunno if it's been mentioned yet -- 2E26. The 807 is _not_ a 6L6 in a
> different envelope -- it's quit arguably the 6L6's big brother, but it's
> got different ratings; it could probably be shoe-horned into a circuit
> designed for the 6L6, but you'd be missing out on about 6dB of final
> output power.
>

The 807 IS a 6L6G with a 5 pin base and the plate connected to the top.
The published ratings of the 6L6G look different than the 807 because of
their intended use. ICAS ratings for the 6L6G were never published.
Also the 807 has additional shielding and insulation over the 6L6G that
make it usable at higher frequencies and voltages than the 6L6G. Most
807's have ceramic spaces to support the plate which are lacking in the
6L6G. But make no mistake about it, the two tubes share the IDENTICAL
cathode, grids, and plate structures.

The 6BG6G tv sweep tube IS an 807 with an octal base. It has the same
ceramic plate supports, but lacks the extra rf shielding.

The 1625 is an 807 with a 12.6 volt heater and a large (same as type
'59) 7 pin base.

The type 1614 is a metal tube based on the 6L6. It is a transmitting
version, and probably has additional shielding. Otherwise its internal
structure is the same as the 6L6 metal type.

The type 1619 is sorta kinda a 6L6 with a directly heated 2.5v cathode. Same metal bulb as the 6L6. Specs' are different due to the different element spacing thanks to the filament cathode. This tube is often triode connected to replace 45's and 2A3's in old radios with a socket adapter.

As a result the of the construction differences regarding shielding, the 807 often would NOT need neutralization while 6L6G's and 6BG6G tubes used as rf power amps do.

The 6L6GA was identical to the 6L6G except that the bulb shrunk from an ST16 to an ST14 size. The 6L6GB was identical except for the bulb changing again to a T14. The 6L6GC is a totally different bottle with higher plate and screen dissipation and plate voltage ratings. The 6L6GC was said to be a plug in replacement for the older 6L6 tubes, but RCA kept the 6L6GB around for a while anyway. In fact a bias re-adjustment was a good idea when replacing an older 6L6 with the 'GC version if a cathode bias resistor wasn't used.

> Antique Electronics Supply has 2E26's for $6.00 each, so it's not a bad
> buy -- and the 2E26 goes into an octal socket.
>

From 7774796022287799662
X-Google-Thread: fcc6e,53719fb70b4edb6c,start
X-Google-Thread: fc2a5,53719fb70b4edb6c,start
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!flph200.ffdc.sbc.com!prodigy.net!
flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!nlpi061.nbdc.sbc.com.POSTED!
ac3deb13!not-for-mail
From: SparkyGuy <sparkyguy@mumcrank.ck>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net>
Subject: Antenna dimensions?
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Lines: 20
NNTP-Posting-Host: 67.124.37.94
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi061.nbdc.sbc.com 1228594640 ST000 67.124.37.94 (Sat, 06 Dec 2008
15:17:20 EST)
NNTP-Posting-Date: Sat, 06 Dec 2008 15:17:20 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
OH[AR_KDFRVOBFH[OZK@_TDAYZOZ@GXOXZYT]UEK@YUDUWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
TINTDDMVW[X\THOPXZRVOCJTUTPC_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM

Date: Sat, 6 Dec 2008 12:17:20 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:6306
rec.radio.amateur.homebrew:1420

Building a small 2.4 GHz detector:

<http://www.atvinderby.co.uk/2.4Ghz_SWR_Meter.htm>

Regarding the dimensions of the wire loops:

ant: 28 mm square
reflector: 30 mm square
separation: 10mm
wire: 14ga solid (1.6mm dia)

Are these dimensions center-to-center of the conductors? Or are these dimensions the space between the conductors? With a conductor diam of 1.6mm, this is more than 10 percent of one dimension (separation), so I think it's important to get it right.

Also, is the reflector to be grounded or floating?

Thanks.

From -4071645438716151708
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!news.k-dsl.de!aioe.org!fmmck
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Date: Sat, 06 Dec 2008 15:56:38 -0500
Organization: Aioe.org NNTP Server
Lines: 24
Message-ID: <fmmck-632AC2.15563806122008@nntp.aioe.org>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
NNTP-Posting-Host: L/gIsCwp7AfTwBFdSThLHg.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Sat, 6 Dec 2008 20:56:40 +0000 (UTC)
User-Agent: MT-NewsWatcher/3.5.3b2 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.7.5
Xref: g2news1.google.com rec.radio.amateur.homebrew:1421

In article
<9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>,
JIMMIE <jimmie68@gmail.com> wrote:

> I am considering an 807 as a replacement

Jimmie-

Just how simple will this transmitter be? My first novice transmitter was built from an ARRL publication back in the 50s. The specification was for a single 6V6, used as a crystal oscillator with output coupled to the antenna.

I found I could get more power with a 6L6 plugged into the same socket. Along the way to getting more power, I found that crystal current would increase to the point where the crystal would fracture!

If you use a 807 or 1625, I hope you will have a lower power oscillator driving it. Something like a 6AG7 would make a nice crystal oscillator, and should have sufficient output to drive an 807.

73,
Fred
K4DII

```
From -9006165685257244753
X-Google-Thread: 108122,b95dec3d20a255fd
X-Google-Thread: fc2a5,b95dec3d20a255fd
X-Google-Thread: 107ada,b95dec3d20a255fd
X-Google-Thread: 110c99,b95dec3d20a255fd
X-Google-Thread: 111320,b95dec3d20a255fd
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2!feeder.erje.net!
fdn.fr!news.wanadoo.fr!news.wanadoo.fr!not-for-mail
From: "Runge13" <philsa@bigfoot.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
References: <b8ce10db-378c-4ac2-81a5-f4fb023239ac@f3g2000yqf.googlegroups.com>
<zVYYk.2602$UI2.2449@bignews6.bellsouth.net>
<49347c37.40462203@newsgroups.bellsouth.net>
In-Reply-To: <49347c37.40462203@newsgroups.bellsouth.net>
Subject: Re: Females love to show off in front of their webcams
Date: Sat, 6 Dec 2008 22:24:53 +0100
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 8bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6000.16480
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6000.16669
Lines: 23
Message-ID: <493aedb9$0$938$ba4acef3@news.orange.fr>
```

```
Organization: les newsgroups par Orange
NNTP-Posting-Date: 06 Dec 2008 22:25:14 CET
NNTP-Posting-Host: 83.114.232.115
X-Trace: 1228598714 news.orange.fr 938 83.114.232.115:2711
X-Complaints-To: abuse@orange.fr
Xref: g2news2.google.com rec.radio.amateur.equipment:1137
rec.radio.amateur.homebrew:1719 rec.radio.amateur.misc:1874 rec.running:7219
rec.scouting.issues:1810

Hypocrits
"J. Hugh Sullivan" <Eagle@bellsouth.net> a �crit dans le message de
news:49347c37.40462203@newsgroups.bellsouth.net...
> On Mon, 1 Dec 2008 16:47:04 -0500, "Ed Cregger"
> <ecregger@bellsouff.net> wrote:
>
>>If they're not talking on ham radio, we're not interested.
>>
>>Ed, N2ECW
>
> Concur.
>
> Hugh, WA4QZU
>>
>>-------
>>
>><elvinabr@gmail.com> wrote in message
>>news:b8ce10db-378c-4ac2-81a5-f4fb023239ac@f3g2000yqf.googlegroups.com...
>>> Females love webcams http://westsex.withsex.com
>>
>>
>



From -6901078226939393187
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 06 Dec 2008 15:28:18 -0600
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Sat, 6 Dec 2008 13:26:08 -0800
Message-ID: <g87r06-b4r.ln1@radagast.org>
Lines: 46
```

X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.159.209.148
X-Trace: sv3-sWOLM0WIq7IgUsO68UgMmpiKEAU0C8yquZpsIucl/izyvd9rBo7d70Z/Dog6Bh6P1XSyjXqvqDiNHUj!kNuK48qLSrckk/GoJTgGaxCQBFHRu2LrBiRk0pb4qATcMFuwQ0i38ADhOgtdQg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:6308 rec.radio.amateur.homebrew:1423

><http://www.atvinderby.co.uk/2.4Ghz_SWR_Meter.htm>
>
>Regarding the dimensions of the wire loops:
>
>ant: 28 mm square
>reflector: 30 mm square
>separation: 10mm
>wire: 14ga solid (1.6mm dia)
>
>Are these dimensions center-to-center of the conductors? Or are these
>dimensions the space between the conductors? With a conductor diam of 1.6mm,
>this is more than 10 percent of one dimension (separation), so I think it's
>important to get it right.

It's probably not actually all that important. Quads are not highly in their dimensioning. Altering the positioning between the driven (active) element, and the reflector, will change the antenna's pattern (gain and front-to-back radio) slightly, and will alter the feedpoint impedance slightly. Neither of these changes is going to be particularly significant (and quite possibly not easy to detect) in this situation. The fact that there's a lot of additional metal in the neighborhood of the antenna (the BNC connector, etc.) is probably going to alter the pattern more than the spacing different will (compared to a theoretically perfect quad in free space).

The pattern of a two-element quad is fairly broad, and the front-to-back ratio isn't terribly high. It's not the best design for pinpoint aiming / location of a microwave source... but that isn't really what this device was intended for. As a field-strength meter, it'll work fine (and probably just about equally well) with a 10mm separation edge-to-edge or center-to-center.

>Also, is the reflector to be grounded or floating?

In a quad, it is usual for all of the elements other than the driven one to be floating. Since the article says that the reflector is fastened with a dollop of glue, I think it's safe to assume that it's intended to be floating.

That detector is a slick little design - thanks for posting the link!

```
--
Dave Platt <dplatt@radagast.org>                                   AE6EO
Friends of Jade Warrior home page:  http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!


From -4041934586238184479
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews8.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<fmmck-632AC2.15563806122008@nntp.aioe.org>
In-Reply-To: <fmmck-632AC2.15563806122008@nntp.aioe.org>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 29
Message-ID: <6hC_k.4612$YU6.3409@bignews8.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mabncmnekmdohbabdbdpiflmbcekedmfhojhikkbagflhcboanioloaejbpebfbjhpibdmhglmjhdniddf
klpnickmioilafgkijmcjgblkkcjmfihbbjoldfngcmehnnjmndoeopnbekfgfcmibnkoacmafknha
NNTP-Posting-Date: Sat, 06 Dec 2008 16:38:10 EST
Organization: BellSouth Internet Group
Date: Sat, 06 Dec 2008 16:41:00 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1424

Fred McKenzie wrote:
> In article
> <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>,
>  JIMMIE <jimmie68@gmail.com> wrote:
>
>> I am considering an 807 as a replacement
>
> Jimmie-
>
> Just how simple will this transmitter be?  My first novice transmitter
> was built from an ARRL publication back in the 50s.  The specification
> was for a single 6V6, used as a crystal oscillator with output coupled
> to the antenna.
>
> I found I could get more power with a 6L6 plugged into the same socket.
> Along the way to getting more power, I found that crystal current would
> increase to the point where the crystal would fracture!
```

>
> If you use a 807 or 1625, I hope you will have a lower power oscillator
> driving it. Something like a 6AG7 would make a nice crystal oscillator,
> and should have sufficient output to drive an 807.
>
> 73,
> Fred
> K4DII

The 6AG7 - 807 combo is a classic. E. F. Johnson sold a 50 Watt Novice transmitter in the '50's with this tube line up (also a 5R4GY rectifier IIRC). Other tubes that have been used as the oscillator/driver were the 6CL6, 12BY7, 6GK6, and 5763.

```
From -4490760753186944 32
X-Google-Thread: fc2a5,62157ffe5eecd30f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe08.iad.POSTED!7564ea0f!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <cf368a30-7a6e-49cb-b403-15d3c5bb1759@l33g2000pri.googlegroups.com>
<Xns9B683DCE1CDB2MDWN@194.177.96.78> <gh35u70tc@news3.newsguy.com>
<xu2dnbdgg4W24ajUnZ2dnUVZ8uudnZ2d@pipex.net> <gh40qb0k0e@news3.newsguy.com>
Subject: Re: uses for exotic capacitor types?
Lines: 29
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <bVC_k.40758$kn7.27228@newsfe08.iad>
NNTP-Posting-Host: gpeodennkhijilocoacpcglhnmahciga
X-Complaints-To: abuse@charter.net
X-Trace:
chhpdeimhjhhahnffkhgnhldfhiklkalfldgphlmfgahceejgpeodennkhijilocjbdinhpldelioihkib
ncpdamnmfiokpdogcofbnhmhlejmogffpkgacjdphfcahdchpfalgfbjoakmml
NNTP-Posting-Date: Sat, 06 Dec 2008 22:20:55 UTC
Date: Sat, 6 Dec 2008 17:20:49 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1722
```

"exray" <radioexray@geeemail.com> wrote in message news:gh40qb0k0e@news3.newsguy.com...
> highlandham wrote:
>
>> They might be OK capacity and voltage wise ,but are possibly not suitable
>> to handle RF current ,so when using them in HV RF circuits it might be
>> better to use a few in parallel.
>>
>> Frank   KN6WH

>
> That may well be true but thats also why I stated a case of a 200-watt
> output rig where they DID work.
>
> -Bill

A year or so ago I toasted a cap in my SDG tuner. I don't recall the value
but it was one of a few in that tuner with ratings between 7.5 and 15 kV.
They looked just like you described. I order a replacement, plus
replacements for all the other HV caps in that tuner just in case. The
parts from Digikey looked just like the parts in the tuner, blue, shaped
kind of like an overweight disc ceramic.

Only a 100 watt rig, but if you hit the feedline with enough SWR you sure
can get the volts right up there.

..

```
From -3744679812522748219
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.ntd.net!news.ntd.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 06 Dec 2008 18:19:43 -0600
From: "philo" <philo@privacy.net>
Newsgroups: rec.radio.amateur.homebrew
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<gh95kc$ats$1@news.albasani.net>
Subject: Re: 6L6 substitute
Date: Sat, 6 Dec 2008 18:22:58 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1933
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1933
X-Antivirus: avast! (VPS 081205-0, 12/05/2008), Outbound message
X-Antivirus-Status: Clean
Message-ID: <psudnVF_9b0Ci6bUnZ2dnUVZ_vGdnZ2d@ntd.net>
Lines: 37
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 209.242.235.6
X-Trace: sv3-1pMbHP5F8olHdM/
kL09+9NDmoE2njV8UGXCjk+2fmV3SbaH+YdblsY0WsndvIb7Kjjj+ZiXssqFvGE9!
d+VG+HU43KNIxgpJ5ZF1Yfkn8Zi0OvFeS42v6ZdelzMINuLydPJJW9ZgGstPPYFAyXgIfTeo2h7G!qw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1426
```

```
"Stev eH"
<StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdg
fgsfghgjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyry
lxybvryvbfbllyxdldf@tfif.co.uk> wrote in message
news:gh95kc$ats$1@news.albasani.net...
> JIMMIE wrote:
> > After years of avoiding morse code I am finally getting into it. the
> > ideal of operating a very simple transmitter appeals to my junkbox/
> > trashcan construction mentality.
> > I am looking for a substitute for a 6L6 that has the plate brought out
> > the top. I was trying to build a little Glowbug transmitter but was
> > having all kinds of problems neutralizing the the thing. I think I
> > would have better luck if I can separate the grid and plate circuits
> > from each other. I am considering an 807 as a replacement Suggestions
> > would be appreciated.
> >
> > Jimmie
> An 807 IS a 6L6 with a top cap anode connection. Any of the TV line
> output valves will also do the job if you want cheap, the 6DQ6B works
> well and has an octal base (The sockets for the 807 are rare).
> 6146 or 2e26 etc work well but will cost you more.
>
> Steve H


No way!

Back in the old days I've used both 6L6 and 807's and they are not the same
tube at all.

You could probably use a 6L6 to drive an 807 though

IIRC, the usual driver for an 807 was often a 6AG7  but I'd sure a 6L6 would
be fine





From -5236614323572120617
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews6.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
```

<gh95kc$ats$1@news.albasani.net> <psudnVF_9b0Ci6bUnZ2dnUVZ_vGdnZ2d@ntd.net>
In-Reply-To: <psudnVF_9b0Ci6bUnZ2dnUVZ_vGdnZ2d@ntd.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 53
Message-ID: <k3H_k.4873$UI2.3075@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcbodobfagfjpnfllomafjcbmomclaoomcmmdf
klpnickmioilafgkijmcjgblkkcjmfihbbjoldfngcmehnohlnanaaojincjpcegjhegfjmpeppmjp
NNTP-Posting-Date: Sat, 06 Dec 2008 22:04:48 EST
Organization: BellSouth Internet Group
Date: Sat, 06 Dec 2008 22:06:55 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1427

philo wrote:
> "Stev eH"
> <StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdg
> fgsfghgjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyry
> lxybvryvbfbllyxdldf@tfif.co.uk> wrote in message
> news:gh95kc$ats$1@news.albasani.net...
>> JIMMIE wrote:
>>> After years of avoiding morse code I am finally getting into it. the
>>> ideal of operating a very simple transmitter appeals to my junkbox/
>>> trashcan construction mentality.
>>> I am looking for a substitute for a 6L6 that has the plate brought out
>>> the top. I was trying to build a little Glowbug transmitter but was
>>> having all kinds of problems neutralizing the the thing. I think I
>>> would have better luck if I can separate the grid and plate circuits
>>> from each other. I am considering an 807 as a replacement Suggestions
>>> would be appreciated.
>>>
>>> Jimmie
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>> well and has an octal base (The sockets for the 807 are rare).
>> 6146 or 2e26 etc work well but will cost you more.
>>
>> Steve H
>
>
> No way!
>
> Back in the old days I've used both 6L6 and 807's and they are not the same
> tube at all.
>
> You could probably use a 6L6 to drive an 807 though
>
> IIRC, the usual driver for an 807 was often a 6AG7 but I'd sure a 6L6 would
> be fine
>
>

Just for grins I got out the RCA tube handbook and compared the plate curves for the 807 and the 6L6. Up to the limits for the 6L6, they are IDENTICAL. The 807 curves go to higher plate voltage and current.

The 807 and the 6L6 have the SAME cathode, grid and plate structures. The differences are in the shielding added to the 807 to reduce grid-plate and grid-cathode capacitance, and in the plate support spacers which are ceramic in the 807 to increase the operating voltage rating of the tube (which is also helped by the plate top connection). You can see the added shielding just above and below the plate supports. The 807 is a MUCH better performer at RF than the 6L6, it usually does NOT require neutralization and would have more power gain than the 6L6.

At Audio frequencies the two tubes will perform IDENTICALLY within their maximum ratings.

```
From 8112046716201998022
X-Google-Thread: fcc6e,9e162f6508849ef5,start
X-Google-Thread: 11480d,9e162f6508849ef5,start
X-Google-Thread: 108122,9e162f6508849ef5,start
X-Google-Thread: fc2a5,9e162f6508849ef5,start
X-Google-Thread: 10b9c8,9e162f6508849ef5,start
X-Google-Attributes:
gidfcc6e,gid11480d,gid108122,gidfc2a5,gid10b9c8,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1226041500@panix.com>
Followup-To: poster
Date: 7 Dec 2008 02:05:01 -0500
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 09 Jan 2009 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1228633501@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1228633502 22231 166.84.1.2 (7 Dec 2008 07:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 7 Dec 2008 07:05:02 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:6325 rec.radio.amateur.dx:197
rec.radio.amateur.equipment:926 rec.radio.amateur.homebrew:1428 rec.radio.info:386
```

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

From 7892598460589036579
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!flph200.ffdc.sbc.com!prodigy.net!
flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!flpi146.ffdc.sbc.com.POSTED!
ac3deb13!not-for-mail
From: SparkyGuy <sparkyguy@mumcrank.ck>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C560C363002469FFB01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Antenna dimensions?
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net> <g87r06-b4r.ln1@radagast.org>
Lines: 17
NNTP-Posting-Host: 67.124.37.94
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi146.ffdc.sbc.com 1228636772 ST000 67.124.37.94 (Sun, 07 Dec 2008 02:59:32 EST)
NNTP-Posting-Date: Sun, 07 Dec 2008 02:59:32 EST
Organization: at&t http://my.att.net/
X-UserInfo1: [[PAPDCA[S@CRRDYEZO@OQTDEB\@PD\MNPWZKB]MPXHZUYICD^RAQBKZQTZTX_I[^G_KGFNON[ZOE_AZNVO^\XGGNTCIRPIJH[@RQKBXLRZ@CD^HKANYVW@RLGEZEJN@_WZJBNZYYKVIOR]T]MNMG_Z[YVWSCH_Q[GPC_A@CARQVXDSDA^M]@DRVUM@RBM
Date: Sun, 7 Dec 2008 00:03:47 -0800
Xref: g2news2.google.com rec.radio.amateur.antenna:8107 rec.radio.amateur.homebrew:1726

> It's probably not actually all that important.
> dplatt

- - -

Thanks for your comments and evaluation of the project. They are helpful to someone not skilled in the black art of wireless :-)

I plan to modify the design a bit, eliminating all coax connectors & adapters, using just 2 banana plugs (and supporting plastic block) as the connection to the meter.

Is it any more efficient to use copper foil or PCB material as the reflector rather than wire?

Thanks.

From 6318552255978242925
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!195.208.113.67.MISMATCH!goblin1!goblin.stu.neva.ru!eweka.nl!hq-usenetpeers.eweka.nl!cyclone03.ams.highwinds-media.com!news.highwinds-media.com!npeersf02.ams.highwinds-media.com!newsfe24.ams2.POSTED!7564ea0f!not-for-mail
Message-ID: <W2iE4gpFj5OJFweJ@birchnet.demon.co.uk>
From: Bill <Bill@birchnet.demon.co.uk>

```
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net>
 <g87r06-b4r.ln1@radagast.org>
 <0001HW.C560C363002469FFB01AD9AF@news.sf.sbcglobal.net>
Lines: 29
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.07-M (<sOQN$qDA8fN4plJQ8aoAlRyTHS>)
NNTP-Posting-Host: 81.103.51.137
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe24.ams2 1228642634 81.103.51.137 (Sun, 07 Dec 2008 09:37:14 UTC)
NNTP-Posting-Date: Sun, 07 Dec 2008 09:37:14 UTC
Organization: virginmedia.com
Date: Sun, 7 Dec 2008 09:35:01 +0000
Xref: g2news1.google.com rec.radio.amateur.antenna:6330
rec.radio.amateur.homebrew:1430
```

In message <0001HW.C560C363002469FFB01AD9AF@news.sf.sbcglobal.net>,
SparkyGuy <sparkyguy@mumcrank.ck> writes

>> It's probably not actually all that important.
>> dplatt
>
>- - -
>
>Thanks for your comments and evaluation of the project. They are helpful to
>someone not skilled in the black art of wireless :-)
>
>I plan to modify the design a bit, eliminating all coax connectors &
>adapters, using just 2 banana plugs (and supporting plastic block) as the
>connection to the meter.
>
>Is it any more efficient to use copper foil or PCB material as the reflector
>rather than wire?
>
>Thanks.
>

A novel bit of kit, looking at the photos it appears to be being used with a DVM, depending on how you want to use it you may find an analogue meter easier. It will show changes better than a DVM. How about buying a movement and a box and building a totally dedicated unit? I'm tempted to make something similar.

--
Bill
May God defend me from my friends; I can defend myself against my enemies.

```
From 3316173133723465339
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!
nx01.iad.newshosting.com!newshosting.com!post01.iad!post02.iad!
news.suddenlink.net!not-for-mail
Date: Sun, 07 Dec 2008 06:43:37 -0600
From: Bob Bob <bob3bob3@suddenlink.net>
User-Agent: Thunderbird 2.0.0.14 (X11/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net>
In-Reply-To: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <q0ts06-o7v.ln1@p400bob.personal.cox.net>
Lines: 20
NNTP-Posting-Host: 74.193.53.43
X-Complaints-To: abuse@suddenlink.net
Xref: g2news2.google.com rec.radio.amateur.antenna:8110
rec.radio.amateur.homebrew:1728
X-Original-Bytes: 1692

An interesting design...

Keep in mind that you are building a relative, not absolute measurement device. ie you can calibrate (or not) it anyway you like. Any piece of wire will have a voltage induced into it by a passing EM field!

The only real concern is that you may want to ensure that the directivity of the quad is reasonably unidirectional. Some quad designs have pretty bad front to back performance. This may give you erronous results if you start seeing reflections or other TX's of the back of your antenna. The easy way to overcome this is to calibrate the pattern by rotating the unit in an active 2.4GHz field and noting some values. You can then use these in later tests.

Cheers Bob

SparkyGuy wrote:
>
> Regarding the dimensions of the wire loops:
>

From 8781089706699694433
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.ntd.net!news.ntd.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 07 Dec 2008 09:16:03 -0600

```
From: "philo" <philo@privacy.net>
Newsgroups: rec.radio.amateur.homebrew
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<gh95kc$ats$1@news.albasani.net> <psudnVF_9b0Ci6bUnZ2dnUVZ_vGdnZ2d@ntd.net>
<k3H_k.4873$UI2.3075@bignews6.bellsouth.net>
Subject: Re: 6L6 substitute
Date: Sun, 7 Dec 2008 09:19:19 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1933
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1933
X-Antivirus: avast! (VPS 081206-0, 12/06/2008), Outbound message
X-Antivirus-Status: Clean
Message-ID: <wpWdnQOHtbQudabUnZ2dnUVZ_vGdnZ2d@ntd.net>
Lines: 83
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 209.242.235.6
X-Trace: sv3-yWBttixSgbkQD+JVrYkg0/qtiVN//
xi9mFAPrP8vWs38oZqT6145TfvMT4B4aBwwG+3wXIX4qsQREOA!+UnAg6C6APkeon3u4/LiGCK0aYM/
M54BfZ7h5+xXRIqUT9VWInCgNPbKp9e+ddcbPHYoy4VAQgmW!Tw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1432


"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:k3H_k.4873$UI2.3075@bignews6.bellsouth.net...
> philo wrote:
> > "Stev eH"
> >
<StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdg
> >
fgsfghgjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyry
> > lxybvryvbfbllyxdldf@tfif.co.uk> wrote in message
> > news:gh95kc$ats$1@news.albasani.net...
> >> JIMMIE wrote:
> >>> After years of avoiding morse code I am finally getting into it. the
> >>> ideal of operating a very simple transmitter appeals to my junkbox/
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> >>> I am looking for a substitute for a 6L6 that has the plate brought out
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> >> well and has an octal base (The sockets for the 807 are rare).
> >> 6146 or 2e26 etc work well but will cost you more.
```

> >>
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> >
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occurred right around 50watts input.

(probably on 40 meters. I'm sure that on ten meters it would have been a lot
less)

Ran my 807 rig for years like that.

Don't really know what my 6L6 transmitter would have done...
just ran it on 40 meters at about 25 watts input...we always just considered
them to be audio tubes.

If I were going to build a tube transmitter today, I'd probably use a 6146B.

```
From 8222761465843788214
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 07 Dec 2008 11:08:04 -0600
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net> <g87r06-
b4r.ln1@radagast.org> <0001HW.C560C363002469FFB01AD9AF@news.sf.sbcglobal.net>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Sun, 7 Dec 2008 08:54:39 -0800
Message-ID: <fnbt06-um1.ln1@radagast.org>
Lines: 38
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.159.209.148
X-Trace: sv3-
qD8YzRkBhCtUWZ3lYpvLEXO4D3QLew03t+jzGMIiHOLJ8VXFn780Xrk8fYuY0LplHyDalFo0FmLMxb4!
oez7THZ0anb69i9Ma3/Gu6Q6tsenf7zYOX5dMEXC5xO6/1poDaZl7K0fesu64Q==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:6338
rec.radio.amateur.homebrew:1433
```

>Thanks for your comments and evaluation of the project. They are helpful to
>someone not skilled in the black art of wireless :-)
>
>I plan to modify the design a bit, eliminating all coax connectors &
>adapters, using just 2 banana plugs (and supporting plastic block) as the
>connection to the meter.

That should certainly work!

>Is it any more efficient to use copper foil or PCB material as the reflector
>rather than wire?

I believe not.

PCB material will probably be less efficient - standard FR-4 fiberglass-and-epoxy has significant losses at 2.4 GHz. Also, the presence of the FR-4 will change the effective length/diameter of the reflector loop... you might have to change the loop diameter to compensate.

Foil would probably be bit less efficient than wire, assuming that the width of the foil was the same as the diameter of the wire - less surface area for the current to flow through, and perhaps more current crowding to the edges of the foil due to skin effect. It'd also be significantly less rugged.

Once again, neither of these losses of efficiency is likely to be terribly important in this application, but why run the risk?

I'd just stick with solid copper wire of a reasonable diameter/gauge, as it'll be electrically efficient and mechanically strong and rigid, easy to get, and inexpensive.

```
--
Dave Platt <dplatt@radagast.org>                                  AE6EO
Friends of Jade Warrior home page:  http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!
```

```
From 6795762890791123723
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews2.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<gh95kc$ats$1@news.albasani.net> <psudnVF_9b0Ci6bUnZ2dnUVZ_vGdnZ2d@ntd.net>
<k3H_k.4873$UI2.3075@bignews6.bellsouth.net>
<wpWdnQOHtbQudabUnZ2dnUVZ_vGdnZ2d@ntd.net>
In-Reply-To: <wpWdnQOHtbQudabUnZ2dnUVZ_vGdnZ2d@ntd.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 105
Message-ID: <JWT_k.4856$dc4.2866@bignews2.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcboiokcgebiolhbbfkkbcjhjhfbdgakjgbkdf
klpnickmioilafflkmngjbbhlgnmibihbbjoldfngcmehnnkfojbngkdmefkbgegpdpbocmdfhlmhm
NNTP-Posting-Date: Sun, 07 Dec 2008 12:43:05 EST
Organization: BellSouth Internet Group
Date: Sun, 07 Dec 2008 12:49:55 -0500
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:1434

philo wrote:
> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
> news:k3H_k.4873$UI2.3075@bignews6.bellsouth.net...
>> philo wrote:
>>> "Stev eH"
>>>
> <StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdg
> fgsfghgjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyry
>>> lxybvryvbfbllyxdldf@tfif.co.uk> wrote in message
>>> news:gh95kc$ats$1@news.albasani.net...
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>>>>> ideal of operating a very simple transmitter appeals to my junkbox/
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>>>> An 807 IS a 6L6 with a top cap anode connection. Any of the TV line
>>>> output valves will also do the job if you want cheap, the 6DQ6B works
>>>> well and has an octal base (The sockets for the 807 are rare).
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Well the 6L6 has changed over the years, while the 807 never did (except for the 'W' version). Later 6L6 versions might have changed the outward appearance of the plate in response to cost cutting and automated assembly lines, but the internal spacing of the elements remained the same. If you look on the QST archives (are you an ARRL member?) on line for those old 'QSL 40' series of articles on home brew transmitters using the 6L6G tube you can see in the pictures how the plate structure is the same for the original 6L6G tube as the 807. And if the claims for this tube in those home brew articles is true, the 6L6 was JUST as rugged as the 807 in being pushed past it's ratings. Only the 6L6 would probably arc over at the socket before the plate voltage reached what the 807 would handle (I've heard of 807's taking over 1000 volts on the plate just fine!).

The official ICAS ratings for the 807 allow up to 750 volts at 100ma plate current, and there is a typical operation shown at 75 watts input, so at 50w your transmitter wasn't even breaking a sweat yet! A pair of 807's in AB2 (SSB linear) will put out 120w PEP, just about the same as a pair of 6146's. The 6146B officially will do about 135-140w in the same service.

Note that ICAS ratings for the 6L6 were never published, but you can assume that the 6L6 is identical to the 807 EXCEPT for the plate voltage rating, which I would guess is good to 500v or so.

```
From -4043387138089089551
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.ntd.net!news.ntd.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 07 Dec 2008 12:06:06 -0600
From: "philo" <philo@privacy.net>
Newsgroups: rec.radio.amateur.homebrew
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<gh95kc$ats$1@news.albasani.net> <psudnVF_9b0Ci6bUnZ2dnUVZ_vGdnZ2d@ntd.net>
<k3H_k.4873$UI2.3075@bignews6.bellsouth.net>
<wpWdnQOHtbQudabUnZ2dnUVZ_vGdnZ2d@ntd.net>
<JWT_k.4856$dc4.2866@bignews2.bellsouth.net>
Subject: Re: 6L6 substitute
Date: Sun, 7 Dec 2008 12:09:22 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1933
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1933
X-Antivirus: avast! (VPS 081206-0, 12/06/2008), Outbound message
X-Antivirus-Status: Clean
Message-ID: <PP6dnYqIjIsTjaHUnZ2dnUVZ_gadnZ2d@ntd.net>
Lines: 131
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 209.242.235.6
X-Trace: sv3-
EWqQRPuD7cK2oWP4DRZWQMdINQ0HuRtP07f6pvjZhzHnqZGiBtRBsKLLA92urXbgT153+X24QAeSwY4!
ERW0DYm5TmGP9edfucVQkdB0thc5lcCx0cC2PfOUO5I+Dpus7ofF6LT7Z+cMhhbv2XLXJiUnLuNR!Mw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1435


"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:JWT_k.4856$dc4.2866@bignews2.bellsouth.net...
> philo wrote:
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> >> philo wrote:
> >>> "Stev eH"
> >>>
> >
<StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdg
> >
fgsfghgjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyry
> >>> lxybvryvbfbllyxdldf@tfif.co.uk> wrote in message
```

> >>> news:gh95kc$ats$1@news.albasani.net...
> >>>> JIMMIE wrote:
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> same service.
>
> Note that ICAS ratings for the 6L6 were never published, but you can
> assume that the 6L6 is identical to the 807 EXCEPT for the plate voltage
> rating, which I would guess is good to 500v or so.

Been a long time...but I am sure the plate voltage on my 807 was at least 600 volts or so.

One thing I also recall, when I had a filter cap short out on a different set...
is seeing the rectifier tube arc over.

Of course, once the faulty cap. was replaced...the tube worked fine!

```
From 2961056590616475474
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Sun, 07 Dec 2008 10:55:34 -0800
Organization: albasani.net
Lines: 51
Message-ID: <ghh674$bc5$1@news.albasani.net>
References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net> <g87r06-b4r.ln1@radagast.org> <0001HW.C560C363002469FFB01AD9AF@news.sf.sbcglobal.net> <fnbt06-um1.ln1@radagast.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net BIqsOYmIbMjpBuUZi+Gt0UDHLCJijSb/kg0UeMoPk6FHzf20ejWwhIlyf7cu6mgmeEOxPNeV8Z8530YfoyhmrWCumLAuwHo9UFPGdrnLaYez/4PLEeDilA6Ckd8KwT+8
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Sun, 7 Dec 2008 18:55:32 +0000 (UTC)
X-User-ID: gLAoobTVw2bdx7GEjVE2xPNetqqSL7wN92iMuFo0x7c=
In-Reply-To: <fnbt06-um1.ln1@radagast.org>
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 081206-0, 12/06/2008), Outbound message
Cancel-Lock: sha1:WPWRTeMNpx+L/j+jlWDU5ci95jA=
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
X-NNTP-Posting-Host: HrlOrdTEl99dDnfItcBP+0x1/hjX9pr3RbnjSZf7BEs=
Xref: g2news1.google.com rec.radio.amateur.antenna:6339 rec.radio.amateur.homebrew:1436
```

Dave Platt wrote:

>> Is it any more efficient to use copper foil or PCB material as the reflector
>> rather than wire?

>
> I believe not.
>
> PCB material will probably be less efficient - standard FR-4
> fiberglass-and-epoxy has significant losses at 2.4 GHz. Also, the
> presence of the FR-4 will change the effective length/diameter of the
> reflector loop... you might have to change the loop diameter to
> compensate.
>

I would think so, at 2.4Ghz there is, no doubt, "only skin effect." Although, I doubt you would notice a great change in efficiency, it should be prove-able, at least on paper. The biquad uses a solid reflector plate for good reason, wire is cheaper/easier to obtain. If the foil side faces the element, I should doubt any rf gets past it to the fiberglass-epoxy to be "lost" in efficiency.

> Foil would probably be bit less efficient than wire, assuming that the
> width of the foil was the same as the diameter of the wire - less
> surface area for the current to flow through, and perhaps more current
> crowding to the edges of the foil due to skin effect. It'd also be
> significantly less rugged.
>

My statement above applies here ... all the wire element can "see" is reflector, with foil.

> Once again, neither of these losses of efficiency is likely to be
> terribly important in this application, but why run the risk?
>
> I'd just stick with solid copper wire of a reasonable diameter/gauge,
> as it'll be electrically efficient and mechanically strong and rigid,
> easy to get, and inexpensive.
>

Tear apart some LNA/satellite feeds to the dish, you will not see them using wire reflectors there; I think there is good reason.

Just my opinions drawn from my readings/study, looking at commercial equipment and hands-on ...

One thing I do totally agree with, it WILL work well with just a wire reflector.

Regards,
JS

From 4591947933903577596
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news2!feeder.erje.net!
newsfeed.straub-nv.de!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Sun, 07 Dec 2008 11:04:44 -0800
Organization: albasani.net
Lines: 15
Message-ID: <ghh6o8$bc5$2@news.albasani.net>
References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net> <g87r06-
b4r.ln1@radagast.org> <0001HW.C560C363002469FFB01AD9AF@news.sf.sbcglobal.net>
<fnbt06-um1.ln1@radagast.org> <ghh674$bc5$1@news.albasani.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
6sBWjjiKGM2kiOS19xpxelkBZL9dt79iP5xvmUe2Nbf6CvwAUVwBiIOmj8fcrq4dEG8eF7C8TmuGu2H1zN
rCbfW5ufgRoeNsf508+NMt/n4LPzX8vqsZKrdevYds+XGq
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Sun, 7 Dec 2008 19:04:40 +0000 (UTC)
X-User-ID: KqwVuur5fBXtQ4utip8NrITTaIfpphciwQuaBdo5ILo=
In-Reply-To: <ghh674$bc5$1@news.albasani.net>
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 081206-0, 12/06/2008), Outbound message
Cancel-Lock: sha1:D6ICaPMJnX7JmIuxPVbLJxXbNlo=
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
X-NNTP-Posting-Host: y2zRf5avYeRn7gem/GoHbtxRGXQpn079IyHZLgRHJEs=
Xref: g2news1.google.com rec.radio.amateur.antenna:6341
rec.radio.amateur.homebrew:1437

John Smith wrote:

> ...
> One thing I do totally agree with, it WILL work well with just a wire
> reflector.
>
> Regards,
> JS
>

I built this, actually, a while back. Toss in a director (what is one
more wire?); I found that to be a worthwhile mod ...

Regards,
JS

From -3461673076162782158
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!

border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.cpinternet!news.posted.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 07 Dec 2008 13:07:32 -0600
Date: Sun, 07 Dec 2008 13:08:00 -0600
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<gh95kc$ats$1@news.albasani.net> <psudnVF_9b0Ci6bUnZ2dnUVZ_vGdnZ2d@ntd.net>
<k3H_k.4873$UI2.3075@bignews6.bellsouth.net>
<wpWdnQOHtbQudabUnZ2dnUVZ_vGdnZ2d@ntd.net>
<JWT_k.4856$dc4.2866@bignews2.bellsouth.net>
In-Reply-To: <JWT_k.4856$dc4.2866@bignews2.bellsouth.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <3ZydnRS1bpFpg6HUnZ2dnUVZ_tfinZ2d@posted.cpinternet>
Lines: 23
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-ExbOwHP5pSYjgj+iCa1FN0TxhVlJ4Me0HrzgvdFj2xP/
DI4yZ3eTVfouNLTtb1GQlxyvsf//4UOe+1k!fAaXWOxx5fMUXU03Iw601rhzXevkpxPahg+xY9dbjsV/
3JXY/9atjj9Vmy8hVezV0eH9dmWC5Cgz!Dez5nRS3wQ+lQMCkF/V1/Q==
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1438

ken scharf wrote:

<snip>
(I've heard of 807's taking over 1000 volts on the
> plate just fine!).
>
> The official ICAS ratings for the 807 allow up to 750 volts at 100ma
> plate current, and there is a typical operation shown at 75 watts input,
> so at 50w your transmitter wasn't even breaking a sweat yet! A pair of
> 807's in AB2 (SSB linear) will put out 120w PEP, just about the same as
> a pair of 6146's. The 6146B officially will do about 135-140w in the
> same service.
<snip>

FWIW, here is a homebrew quad 837/807 linear that does 2kw PEP with 2KV on the
plates (I have it but did not homebrew this one):

http://www.cybertheque.org/homebrew/837_linear

I took the photos some years ago using a digital camera with focus and image
burn issues; this summer I intend to reshoot these with a better camera.

Michael

From 5418439272932941658
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!flph200.ffdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi068.nbdc.sbc.com.POSTED!ac3deb13!not-for-mail
From: SparkyGuy <sparkyguy@mumcrank.ck>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C56169EA0026DBAEB01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Antenna dimensions?
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net> <g87r06-
b4r.ln1@radagast.org> <0001HW.C560C363002469FFB01AD9AF@news.sf.sbcglobal.net>
<fnbt06-um1.ln1@radagast.org> <ghh674$bc5$1@news.albasani.net>
<ghh6o8$bc5$2@news.albasani.net>
Lines: 10
NNTP-Posting-Host: 67.124.37.94
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi068.nbdc.sbc.com 1228679658 ST000 67.124.37.94 (Sun, 07 Dec 2008
14:54:18 EST)
NNTP-Posting-Date: Sun, 07 Dec 2008 14:54:18 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
Q[OCRZKE^ZRWBQH]^JKBOW@@YJ_ZTB\MV@BL\QMIWIWTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Sun, 7 Dec 2008 11:54:18 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:6342
rec.radio.amateur.homebrew:1439

> I built this, actually, a while back. Toss in a director (what is one
> more wire?); I found that to be a worthwhile mod ...
>
> Regards,
> JS

Suggestions re. dimensions and location of a director?

Thanks.

```
From 8312733578770387138
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.ntd.net!news.ntd.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 07 Dec 2008 14:32:52 -0600
From: "philo" <philo@privacy.net>
Newsgroups: rec.radio.amateur.homebrew
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<gh95kc$ats$1@news.albasani.net> <psudnVF_9b0Ci6bUnZ2dnUVZ_vGdnZ2d@ntd.net>
<k3H_k.4873$UI2.3075@bignews6.bellsouth.net>
<wpWdnQOHtbQudabUnZ2dnUVZ_vGdnZ2d@ntd.net>
<JWT_k.4856$dc4.2866@bignews2.bellsouth.net>
<3ZydnRS1bpFpg6HUnZ2dnUVZ_tfinZ2d@posted.cpinternet>
Subject: Re: 6L6 substitute
Date: Sun, 7 Dec 2008 14:36:08 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1933
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1933
X-Antivirus: avast! (VPS 081206-0, 12/06/2008), Outbound message
X-Antivirus-Status: Clean
Message-ID: <RbKdnTKl9fhpr6HUnZ2dnUVZ_judnZ2d@ntd.net>
Lines: 35
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 209.242.235.6
X-Trace: sv3-RqS8E93tkT0XmH/
coSIqyDISE3CN2wcBxjoAQNPYse6fizGh0Gs5lB1L7FBWemBoYdye1uIqyns0BoK!
SEG2wcik8F2JW37QQmBmKlNcpVmCc0+kLadSzUnWKr8yQXShz0DydFCPu/Pzn4f5XnXWnAzULqrS!1g==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:1737
```

"msg" <msg@_cybertheque.org_> wrote in message
news:3ZydnRS1bpFpg6HUnZ2dnUVZ_tfinZ2d@posted.cpinternet...

```
> ken scharf wrote:
>
> <snip>
> (I've heard of 807's taking over 1000 volts on the
> > plate just fine!).
> >
> > The official ICAS ratings for the 807 allow up to 750 volts at 100ma
> > plate current, and there is a typical operation shown at 75 watts input,
> > so at 50w your transmitter wasn't even breaking a sweat yet!  A pair of
> > 807's in AB2 (SSB linear) will put out 120w PEP, just about the same as
> > a pair of 6146's.  The 6146B officially will do about 135-140w in the
> > same service.
> <snip>
```

>
> FWIW, here is a homebrew quad 837/807 linear that does 2kw PEP with 2KV on
the
> plates (I have it but did not homebrew this one):
>
> http://www.cybertheque.org/homebrew/837_linear
>
> I took the photos some years ago using a digital camera with focus and
image
> burn issues; this summer I intend to reshoot these with a better camera.
>
> Michael

Looks good!

For "on-line" viewing the photos you took look fine on this end.

From -8471338169964473664
X-Google-Thread: fcc6e,8595798a6a30ef54,start
X-Google-Thread: fc2a5,8595798a6a30ef54,start
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!flph200.ffdc.sbc.com!prodigy.net!
flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!nlpi068.nbdc.sbc.com.POSTED!
ac3deb13!not-for-mail
From: SparkyGuy <sparkyguy@mumcrank.ck>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C561768E0029D229B01AD9AF@news.sf.sbcglobal.net>
Subject: "Dual crimp" coax connectors?
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Lines: 16
NNTP-Posting-Host: 67.124.37.94
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi068.nbdc.sbc.com 1228682894 ST000 67.124.37.94 (Sun, 07 Dec 2008
15:48:14 EST)
NNTP-Posting-Date: Sun, 07 Dec 2008 15:48:14 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
Q[R_PJSCO@TARWDX]RKXOFTBTR\B@GXLN@GZ_GYO^BSZUSAANVUEAE[YETZPIWWI[FCIZA^NBFXZ_D[BFN
TCNVPDTNTKHWXKB@X^B_OCJLPZ@ET_O[G\XSG@E\G[ZKVLBL^CJINM@I_KVIOR\T_M_AW_M[_BWU_HFA_]
@A_A^SGFAUDE_DFTMQPFWVW[QPJN
Date: Sun, 7 Dec 2008 12:48:14 -0800
Xref: g2news2.google.com rec.radio.amateur.antenna:8121
rec.radio.amateur.homebrew:1738

Halfway down this page (it's a PDF doc):

<http://www.cablesandconnectors.com/PIX/CC-040.pdf>

the TNC and BNC connectors are advertised as "dual-crimp". What does this mean? "Dual" as in center in crimp and outer shield ferrule crimp?

As opposed to what? Single-crimp? That would be connectors that use the center, solid conductor as the center pin and then crimp the shield ferrule? Or...?

Newly (did you guess?) into small coax connectors and trying to get the terminology straight...

Thanks.

```
From 9211603201804529612
X-Google-Thread: fc2a5,63f59b4c8f748dff
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!j35g2000yqh.googlegroups.com!not-for-
mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ganged variable capacitor question
Date: Sun, 7 Dec 2008 12:55:11 -0800 (PST)
Organization: http://groups.google.com
Lines: 17
Message-ID: <17ccfc53-790c-45ea-b9a2-f152c4cb0ed2@j35g2000yqh.googlegroups.com>
References: <98045ffa-4dfe-40a3-8500-807e47b518a2@n10g2000yqm.googlegroups.com>
     <ot6dndwCbftRSqTUnZ2dnUVZ_oTinZ2d@posted.visi> <75eb931e-74df-4503-
a39a-88959e734697@d14g2000yqb.googlegroups.com>
NNTP-Posting-Host: 142.162.129.19
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1228683311 31353 127.0.0.1 (7 Dec 2008 20:55:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 7 Dec 2008 20:55:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j35g2000yqh.googlegroups.com; posting-host=142.162.129.19;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727; .NET CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1442
```

On Dec 5, 11:52=A0pm, Dirac1...@aol.com wrote:
> Bob,
> I think I just sent you an email by mistake when I was trying to post
> a reply (sorry about that). =A0In case anyone else is interested, it

> turns out that the suggestion to cut the wire instead of desoldering
> led me to find that just heating the lug could recreate the short.
> Apparently there is some solder on the inside of the capacitor that
> caused the short after it melted when I was adding the jumper wire.
> Desoldering the wire must have coincidentally reversed this. =A0I was
> able to heat and tap to get rid of the short and all seems to be
> working now.
> Thanks for the help,
> Rusty.

Good for you: A good find and good practice for looking for the
obvious and non-technical answer to a problem. Very interesting six
section capacitor!

```
From -7165321928523631318
X-Google-Thread: fcc6e,8595798a6a30ef54
X-Google-Thread: fc2a5,8595798a6a30ef54
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad.newshosting.com!newshosting.com!post02.iad!
news.dslextreme.com!not-for-mail
Date: Sun, 07 Dec 2008 21:16:03 +0000
From: Dave <dave@dave.dave>
User-Agent: Thunderbird 2.0.0.18 (X11/20081125)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: "Dual crimp" coax connectors?
References: <0001HW.C561768E0029D229B01AD9AF@news.sf.sbcglobal.net>
In-Reply-To: <0001HW.C561768E0029D229B01AD9AF@news.sf.sbcglobal.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 18
Message-ID: <493c3d13$0$31190$bd467cd0@news.dslextreme.com>
Organization: dslextreme.com
X-Complaints-To: abuse@dslextreme.com
Xref: g2news1.google.com rec.radio.amateur.antenna:6346
rec.radio.amateur.homebrew:1443
```

SparkyGuy wrote:
> Halfway down this page (it's a PDF doc):
>
> <http://www.cablesandconnectors.com/PIX/CC-040.pdf>
>
> the TNC and BNC connectors are advertised as "dual-crimp". What does this
> mean? "Dual" as in center in crimp and outer shield ferrule crimp?
>
> As opposed to what? Single-crimp? That would be connectors that use the
> center, solid conductor as the center pin and then crimp the shield ferrule?
> Or...?
>
> Newly (did you guess?) into small coax connectors and trying to get the

> terminology straight...
>
> Thanks.
>
No soldering. You need the correct Paladin die.

From -8475124617030318195
X-Google-Thread: fcc6e,8595798a6a30ef54
X-Google-Thread: fc2a5,8595798a6a30ef54
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 07 Dec 2008 15:23:33 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: "Dual crimp" coax connectors?
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <0001HW.C561768E0029D229B01AD9AF@news.sf.sbcglobal.net>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <ofqdncHyWvtIo6HUnZ2dnUVZ_hydnZ2d@web-ster.com>
Date: Sun, 07 Dec 2008 15:23:33 -0600
Lines: 45
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Fbg/maDJhObxaUNjcDADwjiMDri3kFG/9cS584ZbXQkmvsSr+K+kuLwv93SPvo8JAN7q3hwMrzRiyDz!LENlhUdZPM1fAhU6jgTrEIX/skVBqX7LiHFWs/MgFdRPB7dT82UFOlSEBzI6vnF65L5ePCtyiWEK!CnKuCIsoQzLgwDQ=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:6348 rec.radio.amateur.homebrew:1444

On Sun, 07 Dec 2008 12:48:14 -0800, SparkyGuy wrote:

> Halfway down this page (it's a PDF doc):
>
> <http://www.cablesandconnectors.com/PIX/CC-040.pdf>
>
> the TNC and BNC connectors are advertised as "dual-crimp". What does
> this mean? "Dual" as in center in crimp and outer shield ferrule crimp?
>
> As opposed to what? Single-crimp? That would be connectors that use the
> center, solid conductor as the center pin and then crimp the shield
> ferrule? Or...?
>
> Newly (did you guess?) into small coax connectors and trying to get the
> terminology straight...

>
> Thanks.

The common BNC "crimp" connectors have you solder the center pin to the center conductor of the cable, then assemble the outer with a crimp.

It works quite well in my experience, but I have yet to do this without distorting the center insulator and having to trim it with an X-acto knife to get it to fit, and I'm sure that in a critical application (like TNC in the GHz) that I'd be creating an unpredictable impedance bump with my hacking. This is bad enough with cables that have solid dielectric; I can only imagine the pain it would be with foam. In a production environment I'd almost certainly want to spring for the necessary crimp tool to crimp the inner, if the quality were there.

(This is opposed to BNC connectors where you thread in a plug to capture the outer conductor between the outer shell and a rubber insert. It also works well, but it is bulky and the connectors cost more. And you're still asked to solder the center pin on, with all of the accompanying center insulator distortion issues).

--
Tim Wescott
Control systems and communications consulting
http://www.wescottdesign.com

Need to learn how to apply control theory in your embedded system?
"Applied Control Theory for Embedded Systems" by Tim Wescott
Elsevier/Newnes, http://www.wescottdesign.com/actfes/actfes.html

From 759193056060667774
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!news1.optus.net.au!optus!newsfeeder.syd.optusnet.com.au!news.optusnet.com.au!not-for-mail
Date: Mon, 08 Dec 2008 08:37:34 +1100
From: Clifford Heath <no@spam.please.net>
User-Agent: Mozilla-Thunderbird 2.0.0.14 (X11/20080509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net> <g87r06-b4r.ln1@radagast.org> <0001HW.C560C363002469FFB01AD9AF@news.sf.sbcglobal.net> <W2iE4gpFj5OJFweJ@birchnet.demon.co.uk>
In-Reply-To: <W2iE4gpFj5OJFweJ@birchnet.demon.co.uk>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 13

Message-ID: <493c4266$0$9582$afc38c87@news.optusnet.com.au>
NNTP-Posting-Host: 122.107.155.136
X-Trace: 1228685926 9582 122.107.155.136
X-Original-Bytes: 1361
Xref: g2news2.google.com rec.radio.amateur.antenna:8128
rec.radio.amateur.homebrew:1742

Bill wrote:
> looking at the photos it appears to be being used
> with a DVM, depending on how you want to use it you may find an analogue
> meter easier. It will show changes better than a DVM.

The author says he tried that and it didn't work as well:
"I tried connecting the antenna directly to a micro amp moving
coil meter, however there was very little meter deflection from
a Wireless LAN card."

Impedance too low, perhaps?

Clifford Heath.

From -5579281493683634793
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe09.iad.POSTED!7564ea0f!not-for-mail
From: Bruce W. Ellis <ellis@means.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Organization: Not much
Reply-To: ellis*nospam*@means.net
Message-ID: <f2hoj4pfc8g52bhlh1qdupnnjfch31fq47@4ax.com>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<gh95kc$ats$1@news.albasani.net> <psudnVF_9b0Ci6bUnZ2dnUVZ_vGdnZ2d@ntd.net>
<k3H_k.4873$UI2.3075@bignews6.bellsouth.net>
<wpWdnQOHtbQudabUnZ2dnUVZ_vGdnZ2d@ntd.net>
<JWT_k.4856$dc4.2866@bignews2.bellsouth.net>
<3ZydnRS1bpFpg6HUnZ2dnUVZ_tfinZ2d@posted.cpinternet>
X-Newsreader: Forte Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 33
NNTP-Posting-Host: cemanefaibpodkimglljobhobokhhogk
X-Complaints-To: abuse@charter.net
X-Trace:
gbibggbfamgkfdiofkhgnhldfhiklkalbgbimefjopklhhmpcemanefaibpodkimegeimmginmfonhafee
fniiaeloklpidmomgnlefphppmfgllgjbklckhpdmgaanifdlbpmaelemcakjp
NNTP-Posting-Date: Sun, 07 Dec 2008 21:51:55 UTC
Date: Sun, 07 Dec 2008 15:51:41 -0600

Xref: g2news1.google.com rec.radio.amateur.homebrew:1446

On Sun, 07 Dec 2008 13:08:00 -0600, msg <msg@_cybertheque.org_> wrote:

>ken scharf wrote:
>
><snip>
>(I've heard of 807's taking over 1000 volts on the
>> plate just fine!).
>>
>> The official ICAS ratings for the 807 allow up to 750 volts at 100ma
>> plate current, and there is a typical operation shown at 75 watts input,
>> so at 50w your transmitter wasn't even breaking a sweat yet! A pair of
>> 807's in AB2 (SSB linear) will put out 120w PEP, just about the same as
>> a pair of 6146's. The 6146B officially will do about 135-140w in the
>> same service.
><snip>
>
>FWIW, here is a homebrew quad 837/807 linear that does 2kw PEP with 2KV on the
>plates (I have it but did not homebrew this one):
>
>http://www.cybertheque.org/homebrew/837_linear
>
>I took the photos some years ago using a digital camera with focus and image
>burn issues; this summer I intend to reshoot these with a better camera.
>
>Michael

I built a 837 "linear" back around 1958. I used mercury vapor
rectifier tubes - love that blue glow. It worked pretty well at about
1200V. I used it mostly for CW and some AM. The 837s were cheap and
pretty rugged. Damn near killed my self on the high voltage so I got
rid of it.

Bruce W0BF

From -5375692375591977558
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe06.iad.POSTED!7564ea0f!not-for-mail
From: Bruce W. Ellis <ellis@means.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Organization: Not much
Reply-To: ellis*nospam*@means.net
Message-ID: <dfhoj4to6ajeuug34ovdj46f076pg65019@4ax.com>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<fmmck-632AC2.15563806122008@nntp.aioe.org>
<6hC_k.4612$YU6.3409@bignews8.bellsouth.net>

X-Newsreader: Forte Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 38
NNTP-Posting-Host: cemanefaibpodkimglljobhobokhhogk
X-Complaints-To: abuse@charter.net
X-Trace:
emlnjhpjaknjmmohfkhgnhldfhiklkalioacfaancbbppfkjcemanefaibpodkimegeimmginmfonhafee
fniiaeloklpidmomgnlefphppmfgllkiaflcpcpnklkfhmfdlbpmaelemcakjp
NNTP-Posting-Date: Sun, 07 Dec 2008 22:04:29 UTC
Date: Sun, 07 Dec 2008 16:04:16 -0600
Xref: g2news1.google.com rec.radio.amateur.homebrew:1447

On Sat, 06 Dec 2008 16:41:00 -0500, ken scharf
<wa2mzeNOSPAMBOTS@bellsouth.net> wrote:

>Fred McKenzie wrote:
>> In article
>> <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>,
>> JIMMIE <jimmie68@gmail.com> wrote:
>>
>>> I am considering an 807 as a replacement
>>
>> Jimmie-
>>
>> Just how simple will this transmitter be? My first novice transmitter
>> was built from an ARRL publication back in the 50s. The specification
>> was for a single 6V6, used as a crystal oscillator with output coupled
>> to the antenna.
>>
>> I found I could get more power with a 6L6 plugged into the same socket.
>> Along the way to getting more power, I found that crystal current would
>> increase to the point where the crystal would fracture!
>>
>> If you use a 807 or 1625, I hope you will have a lower power oscillator
>> driving it. Something like a 6AG7 would make a nice crystal oscillator,
>> and should have sufficient output to drive an 807.
>>
>> 73,
>> Fred
>> K4DII
>The 6AG7 - 807 combo is a classic. E. F. Johnson sold a 50 Watt Novice
>transmitter in the '50's with this tube line up (also a 5R4GY rectifier
>IIRC). Other tubes that have been used as the oscillator/driver were
>the 6CL6, 12BY7, 6GK6, and 5763.

That would be the Johnson Viking Adventurer. I built one in 1955 from
a kit. I later replaced the 807 with a 6146 - didn't make much
difference, actually.

Bruce W0BF

```
From -7324720256511907157
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!
news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Sun, 07 Dec 2008 14:55:55 -0800
Organization: albasani.net
Lines: 23
Message-ID: <ghhk9r$sb6$1@news.albasani.net>
References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net> <g87r06-
b4r.ln1@radagast.org> <0001HW.C560C363002469FFB01AD9AF@news.sf.sbcglobal.net>
<fnbt06-um1.ln1@radagast.org> <ghh674$bc5$1@news.albasani.net>
<ghh6o8$bc5$2@news.albasani.net>
<0001HW.C56169EA0026DBAEB01AD9AF@news.sf.sbcglobal.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
5sTEclgMuc9v95bSeSz6sxwYPFJCWbDEzF9Jurbk6Rih+o7nmUV3XDFDhxLVHaS8YvjqwzUvJ1aRyan7d/
rEje6N15wDEalD4wbcHzXf34u/AiCX1GmLb0DT+6JSTqN+
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Sun, 7 Dec 2008 22:55:56 +0000 (UTC)
X-User-ID: +Cs3QEN3clzP4YDsfJQSdD9aoRfpVPTdjS+P8tdNijI=
In-Reply-To: <0001HW.C56169EA0026DBAEB01AD9AF@news.sf.sbcglobal.net>
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 081207-0, 12/07/2008), Outbound message
Cancel-Lock: sha1:l7qWqzgQG/fU3wXm1ZOTc9i39Yg=
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
X-NNTP-Posting-Host: oeYFzPFessVa6bxMM8QDlole0LBjWEld4uP7V8LTpJc=
Xref: g2news2.google.com rec.radio.amateur.antenna:8129
rec.radio.amateur.homebrew:1745
```

SparkyGuy wrote:

>> I built this, actually, a while back. Toss in a director (what is one more wire?); I found that to be a worthwhile mod ...
>>
>> Regards,
>> JS
>
> Suggestions re. dimensions and location of a director?
>
> Thanks.
>

I believe I tried lengths of a 3% to 5% shorter length with the director, than the drive element (i.e., the one in front of the reflector), settling on a 4% shorter length ... anyway, that is common in HF parasitic arrays ... this is equiv. to a 3-element quad on HF.

I just dug it out and measured it, this is what it appears to be,
alright. With a spacing between driven element and director of ~0.2
wavelength, center-to-center.

Regards,
JS

```
From -6675829153271098193
X-Google-Thread: fcc6e,8595798a6a30ef54
X-Google-Thread: fc2a5,8595798a6a30ef54
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!x8g2000yqk.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: "Dual crimp" coax connectors?
Date: Sun, 7 Dec 2008 15:52:21 -0800 (PST)
Organization: http://groups.google.com
Lines: 59
Message-ID: <3e69dca0-879f-4d57-b413-5cfea58aee79@x8g2000yqk.googlegroups.com>
References: <0001HW.C561768E0029D229B01AD9AF@news.sf.sbcglobal.net>
     <ofqdncHyWvtIo6HUnZ2dnUVZ_hydnZ2d@web-ster.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1228693941 28679 127.0.0.1 (7 Dec 2008 23:52:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 7 Dec 2008 23:52:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x8g2000yqk.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:8132
rec.radio.amateur.homebrew:1746
```

On Dec 7, 4:23=A0pm, Tim Wescott <t...@seemywebsite.com> wrote:
> On Sun, 07 Dec 2008 12:48:14 -0800, SparkyGuy wrote:
> > Halfway down this page (it's a PDF doc):
>
> > <http://www.cablesandconnectors.com/PIX/CC-040.pdf>
>
> > the TNC and BNC connectors are advertised as "dual-crimp". What does
> > this mean? "Dual" as in center in crimp and outer shield ferrule crimp?
>
> > As opposed to what? Single-crimp? That would be connectors that use the
> > center, solid conductor as the center pin and then crimp the shield

```
> > ferrule? Or...?
>
> > Newly (did you guess?) into small coax connectors and trying to get the
> > terminology straight...
>
> > Thanks.
>
> The common BNC "crimp" connectors have you solder the center pin to the
> center conductor of the cable, then assemble the outer with a crimp.
>
> It works quite well in my experience, but I have yet to do this without
> distorting the center insulator and having to trim it with an X-acto
> knife to get it to fit, and I'm sure that in a critical application (like
> TNC in the GHz) that I'd be creating an unpredictable impedance bump with
> my hacking. =A0This is bad enough with cables that have solid dielectric;=
 I
> can only imagine the pain it would be with foam. =A0In a production
> environment I'd almost certainly want to spring for the necessary crimp
> tool to crimp the inner, if the quality were there.
>
> (This is opposed to BNC connectors where you thread in a plug to capture
> the outer conductor between the outer shell and a rubber insert. =A0It al=
so
> works well, but it is bulky and the connectors cost more. =A0And you're
> still asked to solder the center pin on, with all of the accompanying
> center insulator distortion issues).
>
> --
> Tim Wescott
> Control systems and communications consultinghttp://www.wescottdesign.com
>
> Need to learn how to apply control theory in your embedded system?
> "Applied Control Theory for Embedded Systems" by Tim Wescott
> Elsevier/Newnes,http://www.wescottdesign.com/actfes/actfes.html- Hide quo=
ted text -
>
> - Show quoted text -

Tim, I solder these on the N connectors all the time with no problems.
I have an old Weller soldering gun with the tip removed. I wedge the
pin between the two electodes on the gun, slide the pin over the
tinned center conductor and pull the trigger for a couple of seconds.
The pin cools almost instantly preventing deformation of the
insulation. Ive been doing this for over 20 years using the same gun.
This may take a little practice not to melt the insulation. I
remember  that it wasnt to bad getting the hang of it.

Jimmie


From -4323336798167108218
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.ntd.net!news.ntd.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 07 Dec 2008 17:55:45 -0600
From: "philo" <philo@privacy.net>
Newsgroups: rec.radio.amateur.homebrew
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<fmmck-632AC2.15563806122008@nntp.aioe.org>
<6hC_k.4612$YU6.3409@bignews8.bellsouth.net>
<dfhoj4to6ajeuug34ovdj46f076pg65019@4ax.com>
Subject: Re: 6L6 substitute
Date: Sun, 7 Dec 2008 17:59:01 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1933
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1933
X-Antivirus: avast! (VPS 081207-0, 12/07/2008), Outbound message
X-Antivirus-Status: Clean
Message-ID: <V-2dnWtWO98c_6HUnZ2dnUVZ_oPinZ2d@ntd.net>
Lines: 58
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 209.242.235.6
X-Trace: sv3-IaroLIHb4+dAKKSy0Ztml/pT1ETkvTDT/7Q1aibHKZK6+TGW3jgcrEqIVz1NBHV/
urwVvHfKAn2fcQ9!HOojUGqRpuLIwB+uJwaGcTTY8OE1R0KhWzcDy36+pATDN3qPzqvnJQdeOdD/
Z36P63A/lzyeKVDd!6Q==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1450

"Bruce W. Ellis" <ellis@means.net> wrote in message
news:dfhoj4to6ajeuug34ovdj46f076pg65019@4ax.com...
> On Sat, 06 Dec 2008 16:41:00 -0500, ken scharf
> <wa2mzeNOSPAMBOTS@bellsouth.net> wrote:
>
> >Fred McKenzie wrote:
> >> In article
> >> <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>,
> >> JIMMIE <jimmie68@gmail.com> wrote:
> >>
> >>> I am considering an 807 as a replacement
> >>
> >> Jimmie-
> >>
> >> Just how simple will this transmitter be? My first novice transmitter
> >> was built from an ARRL publication back in the 50s. The specification
> >> was for a single 6V6, used as a crystal oscillator with output coupled
> >> to the antenna.
> >>
> >> I found I could get more power with a 6L6 plugged into the same socket.

```
> >> Along the way to getting more power, I found that crystal current would
> >> increase to the point where the crystal would fracture!
> >>
> >> If you use a 807 or 1625, I hope you will have a lower power oscillator
> >> driving it.  Something like a 6AG7 would make a nice crystal
oscillator,
> >> and should have sufficient output to drive an 807.
> >>
> >> 73,
> >> Fred
> >> K4DII
> >The 6AG7 - 807 combo is a classic.  E. F. Johnson sold a 50 Watt Novice
> >transmitter in the '50's with this tube line up (also a 5R4GY rectifier
> >IIRC).  Other tubes that have been used as the oscillator/driver were
> >the 6CL6, 12BY7, 6GK6, and 5763.
>
> That would be the Johnson Viking Adventurer.  I built one in 1955 from
> a kit.  I later replaced the 807 with a 6146 - didn't make much
> difference, actually.
>
> Bruce  W0BF


Yep, that's what I started out with. Bought my Adventurer used back in 1964
along with an HQ-110c.
When I got my General ticket I got a nice drifty Knight Kit VFO.

My antenna relay was taken from an old pinball machine!

My best contact was Ascension Island . Africa on a 40 meter CW..

I used a
wire vertical...
that was not terribly vertical <G>






From 6614502040778547919
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!d23g2000yqc.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Date: Sun, 7 Dec 2008 16:05:09 -0800 (PST)
Organization: http://groups.google.com
Lines: 42
Message-ID: <12f9873b-6e91-42a5-8591-8c7c09d14a4c@d23g2000yqc.googlegroups.com>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
```

```
     <29Sdnd3YCv0my6TUnZ2dnUVZ_gqdnZ2d@web-ster.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1228694709 30959 127.0.0.1 (8 Dec 2008 00:05:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 8 Dec 2008 00:05:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d23g2000yqc.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1451

On Dec 5, 11:28=A0am, Tim Wescott <t...@seemywebsite.com> wrote:
> On Thu, 04 Dec 2008 06:23:48 -0800, JIMMIE wrote:
> > After years of avoiding morse code I am finally getting into it. the
> > ideal of operating a very simple transmitter appeals to my junkbox/
> > trashcan construction mentality.
> > I am looking for a substitue for a 6L6 that has the plate brought out
> > the top. I was trying to build a little Glowbug transmitter but was
> > having all kinds of problems neutralizing the the thing. I think I woul=
d
> > have better luck if I can separate the grid and plate circuits from eac=
h
> > other. I am considering an 807 as a replacement Suggestions would be
> > appreciated.
>
> > Jimmie
>
> Have you considered a 6L6 with careful shielding at the socket? =A0IIRC t=
he
> pins that neighbor the plate pin would be at RF potential; you could put
> a big, flat, high-value ceramic right between those socket pins to shield
> the grid, and possible even extend the shield out if you were willing to
> hand-make a cap from copper strip and Kapton tape.
>
> It's kinda heroic measures to take on a tube that's more expensive now
> than it's "high-tech" RF brethren, but if you just gotta have that metal-
> tube look it may do the trick.
>
> --
> Tim Wescott
> Control systems and communications consultinghttp://www.wescottdesign.com
>
> Need to learn how to apply control theory in your embedded system?
> "Applied Control Theory for Embedded Systems" by Tim Wescott
> Elsevier/Newnes,http://www.wescottdesign.com/actfes/actfes.html

Thanks Tim, I rplaced the 6L6 with a 6DQ6 and all is right with the
world on this end. Im putting out about 40 watts on 80M.
```

My next project may be building a little super rengerative receiver.
Im trying to see just how little I can get by with and still have a
productive station.

Jimmie

From -3220451033641561413
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Sun, 07 Dec 2008 21:40:38 -0800
Organization: albasani.net
Lines: 24
Message-ID: <ghic0l$i0j$1@news.albasani.net>
References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net> <g87r06-
b4r.ln1@radagast.org> <0001HW.C560C363002469FFB01AD9AF@news.sf.sbcglobal.net>
<fnbt06-um1.ln1@radagast.org> <ghh674$bc5$1@news.albasani.net>
<ghh6o8$bc5$2@news.albasani.net>
<0001HW.C56169EA0026DBAEB01AD9AF@news.sf.sbcglobal.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net Jevdog5X3gl4fNwhHS5jGf/
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Xref: g2news2.google.com rec.radio.amateur.antenna:8136
rec.radio.amateur.homebrew:1749

SparkyGuy wrote:

> ...
> Suggestions re. dimensions and location of a director?
>
> Thanks.
>

Had company today, been in and out all day ... sorry I didn't offer more.

A wavelength at 2.4Ghz will be approx. 12cm, half-wave ~6cm, 1/4 wave
~3cm. (with a very thin wire 1/2 wave monopole-omni-element I find
~12.25cm works for me, element dia. will affect this, as other factors ...)

Anyway, I looked though my old emails for something a friend sent me,
thought if you were interested in the 2.4g fsm, you might be interested
in this, if nothing else, just because the dude is so complete!:

http://www.users.bigpond.com/darren.fulton/yagi/13_element_yagi_antenna_for_2.htm

You will notice, he uses a plate reflector ...

Regards,
JS

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rec.radio.amateur.homebrew:1453
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> I believe I tried lengths of a 3% to 5% shorter length with the
> director, than the drive element (i.e., the one in front of the
> reflector), settling on a 4% shorter length ...

So about 26.8mm square?

> With a spacing between driven element and director of ~0.2
> wavelength, center-to-center.

So the director should be 25 mm forward (toward the uwave source) of the driven element? (3e8 / 2.4e9) x 0.2 = ~25mm

Do these numbers look right?

Thanks.

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From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Sun, 07 Dec 2008 23:38:07 -0800
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
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Xref: g2news1.google.com rec.radio.amateur.antenna:6360
rec.radio.amateur.homebrew:1454

On Sun, 07 Dec 2008 21:40:38 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>A wavelength at 2.4Ghz will be approx. 12cm, half-wave ~6cm, 1/4 wave
>~3cm.  (with a very thin wire 1/2 wave monopole-omni-element I find
>~12.25cm works for me, element dia. will affect this, as other factors ...)
>
>Anyway, I looked though my old emails for something a friend sent me,
>thought if you were interested in the 2.4g fsm, you might be interested
>in this, if nothing else, just because the dude is so complete!:
>
>http://www.users.bigpond.com/darren.fulton/yagi/13_element_yagi_antenna_for_2.htm
>
>You will  notice, he uses a plate reflector ...
>
>Regards,
>JS

I also noticed that he cut his elements to a precision of 0.1mm.  That
would be correct if the boom were an insulator or the elements were
inserted in insulating sleeves.  However, since the 10mm square boom
is metal and effectively "shorts" part of each element, the actual
element length includes part of the diameter of the boom, thus adding
approximately 5mm to each element length (not including the reflector
and driven element).  A VSWR sweep test would have shown the problem.

--
Jeff Liebermann     jeffl@cruzio.com
150 Felker St #D    http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann     AE6KS    831-336-2558


From -6141425382257204820
X-Google-Thread: fcc6e,53719fb70b4edb6c
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From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Mon, 08 Dec 2008 00:02:45 -0800
Organization: albasani.net
Lines: 36
Message-ID: <ghikb2$pia$1@news.albasani.net>
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<fnbt06-um1.ln1@radagast.org> <ghh674$bc5$1@news.albasani.net>
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Xref: g2news2.google.com rec.radio.amateur.antenna:8139
rec.radio.amateur.homebrew:1752
```

SparkyGuy wrote:

>> I believe I tried lengths of a 3% to 5% shorter length with the
>> director, than the drive element (i.e., the one in front of the
>> reflector), settling on a 4% shorter length ...
>
> So about 26.8mm square?
>
>> With a spacing between driven element and director of ~0.2
>> wavelength, center-to-center.
>
> So the director should be 25 mm forward (toward the uwave source) of the
> driven element? (3e8 / 2.4e9) x 0.2 = ~25mm
>
> Do these numbers look right?
>
> Thanks.
>

My elements are made from #14 bare copper wire. It is difficult to measure each side, individually, when constructing the antenna. Better to cut the wire to 1 wavelength, then make your bends forming it into a square. Of course, every attempt possible should be made to keep each side 1/4 of this length, exactly.

In measuring the one before me, which I constructed, this total length, about the quad, is ~12.5cm.

However, here is a calculator I referenced in my constructions:

It is a java application, you must have java on your computer. Let me know if you can't access it and I will give you the figures it spits

out, 2.4ghz = 2400mhz. Just let me know what wifi channel you wish to
center on (frequency.)

Regards,
JS

From 7523896455147131874
X-Google-Thread: fcc6e,53719fb70b4edb6c
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From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Mon, 08 Dec 2008 00:04:08 -0800
Organization: albasani.net
Lines: 19
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Xref: g2news2.google.com rec.radio.amateur.antenna:8140 rec.radio.amateur.homebrew:1753

John Smith wrote:

> ...
> However, here is a calculator I referenced in my constructions:
>
> It is a java application, you must have java on your computer. Let me
> know if you can't access it and I will give you the figures it spits

> out, 2.4ghz = 2400mhz. Just let me know what wifi channel you wish to
> center on (frequency.)
>
> Regards,
> JS

Well, da! It would help if I cut loose with the URL. <sheepish smile>

http://www.n6mrx.com/Antenna/Cubical-Quad1.htm

Regards,
JS

From -6092452666297411762
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From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Mon, 08 Dec 2008 00:23:16 -0800
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Xref: g2news2.google.com rec.radio.amateur.antenna:8141 rec.radio.amateur.homebrew:1754

Jeff Liebermann wrote:

> ...
> I also noticed that he cut his elements to a precision of 0.1mm. That would be correct if the boom were an insulator or the elements were inserted in insulating sleeves. However, since the 10mm square boom is metal and effectively "shorts" part of each element, the actual element length includes part of the diameter of the boom, thus adding approximately 5mm to each element length (not including the reflector and driven element). A VSWR sweep test would have shown the problem.
>

I have always used #8 wire as a boom on ghz yagis' (constructed a 7 element once.) Since the boom is at a current antinode (voltage node), I ignored the boom.

The boom you mention is rather LARGE, give the freqs in question.

One of my next projects is a GOOD VSWR meter for ghz ... unfortuantly, on the list of priorities here, it is low on the list ... :-(

I have just tended to take the % signal readings on the chans as good enough, and trimmed my antennas accordingly. I know, this does NOT take into account the functioning/power-fluctuations/antenna(s)/etc. of the AP over these ranges ...

But, excellent point, glad you mentioned it ... but you are right, my elements end up being filed down a bit from the figures the calculator spits out ...

Warm regards,
JS

From 8790178899360947241
X-Google-Thread: fcc6e,53719fb70b4edb6c
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From: Jeff Liebermann <jeffl@cruzio.com>
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Subject: Re: Antenna dimensions?
Date: Mon, 08 Dec 2008 00:33:16 -0800
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X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:6364 rec.radio.amateur.homebrew:1458

On Mon, 08 Dec 2008 08:37:34 +1100, Clifford Heath <no@spam.please.net> wrote:

>Bill wrote:
>> looking at the photos it appears to be being used
>> with a DVM, depending on how you want to use it you may find an analogue
>> meter easier. It will show changes better than a DVM.
>
>The author says he tried that and it didn't work as well:
>"I tried connecting the antenna directly to a micro amp moving
>coil meter, however there was very little meter deflection from
>a Wireless LAN card."
>
>Impedance too low, perhaps?
>
>Clifford Heath.

Maybe, but more likely, not enough RF to do anything useful with an un-amplified meter.

What's missing from everyone's posting is what they plan to do with this field strength meter.

Let's play with the numbers. The average wi-fi access point belches about +12dBm (32 mw) RF into an antenna with perhaps 2dBi gain. The FSM has a gain of perhaps 0dB. At a distance of about 3 meters (10ft) the path loss at 2.4GHz is about 50dB which will deliver about -30dBm to the diode. On the most sensitive voltage range, the DVM has an input impedance of at least 1Mohm and can be treated like an open circuit load to the detector.

-30dBm into 50 ohms is 0.224 vrms. Transforming linearly from 50 ohm reference to perhaps 150 ohms loop antenna impedance yields about 600mv rms. (Note: I know this is a bad guess but it's midnight and I'm tired). Resonating the loop probably raises the impedance even higher, thus resulting in even more rectified voltage.

The resultant DC voltage will be about the same at about 600mv DC. However, for wi-fi use, the xmit duty cycle is quite low, sending just beacons, when there is no traffic moving. The 1000pf cap will need to be paralleled with a much larger cap in order to form a usable peak detector.

So, with a high imput impedance DVM the antenna and detector is quite efficient and can generate quite a bit of voltage. However, when the DVM is replaced with a non-amplified meter, the relatively low impedance of the meter shorts out the diode and signifigantly reduces the Q of the resonant loop antenna, resulting in much lower detected voltage.

I've built several transmitter hunt "sniffers" using almost exactly the same circuit, except that I use a hot carrier Schottky diode for the RF detector, and the cheapest Harbor Freight DVM (because it always gets destroyed or lost during the hunt). For 2.4GHz, I use a dish antenna, RF amplifier, step-up xformer (coax balun), diode detector, and DVM.

I also made a really ugly hack that uses a satellite TV signal meter.
<http://www.sadoun.com/Sat/Products/Accessories/Meters/SF95L-DSS-FTA-Satellite-Signal-meter.htm>
These work from about 900 to 1800MHz with a minimum detectable meter sensitivity of about -70dBm. They are comatose at 860 (cellular) and 2.4GHz but are great for 900 and 1900MHz (PCS) sniffing. The input port is connected to a 900MHz or 1.2GHz antenna of any sorts. The output goes to a 75 ohm load and a 12V battery (gel cell) through an RF choke.

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From -4555822666479689779
X-Google-Thread: fcc6e,53719fb70b4edb6c
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NNTP-Posting-Date: Mon, 08 Dec 2008 02:48:19 -0600
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Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew

Subject: Re: Antenna dimensions?
References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net> <g87r06-b4r.ln1@radagast.org> <0001HW.C560C363002469FFB01AD9AF@news.sf.sbcglobal.net> <fnbt06-um1.ln1@radagast.org> <ghh674$bc5$1@news.albasani.net> <ghh6o8$bc5$2@news.albasani.net> <0001HW.C56169EA0026DBAEB01AD9AF@news.sf.sbcglobal.net> <ghic0l$i0j$1@news.albasani.net> <d3jpj4p60dn5ltdno9qko2uisfi2ehnhgd@4ax.com> <ghilhh$qmp$1@news.albasani.net>
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X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.antenna:8143 rec.radio.amateur.homebrew:1756

John Smith wrote:

> Jeff Liebermann wrote:
>
>> ...
>> I also noticed that he cut his elements to a precision of 0.1mm. That
>> would be correct if the boom were an insulator or the elements were
>> inserted in insulating sleeves. However, since the 10mm square boom
>> is metal and effectively "shorts" part of each element, the actual
>> element length includes part of the diameter of the boom, thus adding
>> approximately 5mm to each element length (not including the reflector
>> and driven element). A VSWR sweep test would have shown the problem.
>>
>
> I have always used #8 wire as a boom on ghz yagis' (constructed a 7
> element once.) Since the boom is at a current antinode (voltage node),
> I ignored the boom.
>
> The boom you mention is rather LARGE, give the freqs in question.
>
> One of my next projects is a GOOD VSWR meter for ghz ... unfortuantly,
> on the list of priorities here, it is low on the list ... :-(

What about surplus directional couplers and a bolometer set (various military versions used to be quite affordable)? Used to show up at

hamfests regularly too, covered 1 to 20 GHz or so in the kit; sorry
I forget the AN number at the moment, but it came with half a dozen
directional couplers for the various bands and lots of adapters.

Michael

From 2164171848752340790
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nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Dec 2008 02:57:59 -0600
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Mon, 08 Dec 2008 00:57:58 -0800
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:6366
rec.radio.amateur.homebrew:1460

On Mon, 08 Dec 2008 00:23:16 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>One of my next projects is a GOOD VSWR meter for ghz ... unfortuantly,
>on the list of priorities here, it is low on the list ... :-(

<http://pe2er.nl/wifiswr/>

I've built several. They work nicely and are a very important tool. My main inspiration was blowing up my Wiltron Model something SWR bridge and discovering the exhorbitant cost of a repair or replacement. The designs are sufficiently similar that I can substitute. Of course, it's not flat over many decades of bandwidth, but for fairly narrow bands, it's quite adequate.

>I have just tended to take the % signal readings on the chans as good
>enough, and trimmed my antennas accordingly. I know, this does NOT take
>into account the functioning/power-fluctuations/antenna(s)/etc. of the
>AP over these ranges ...

I have a handy distant reference signal for 2.4GHz. It's line of sight and creates no Fresnel Zone issues, so it's useful for antenna testing. I start with my "standard" gain panel antenna and take a measurement. I then take the antenna under test, and compare. I rarely make an absolute level measurement. It's always relative to some other antenna of known characteristics.

The only problem is that I have to climb onto my roof to do the measuring. I'm currently at the tail end of radiation oncology (no big deal), which makes me kinda tired. I find myself somewhat tipsy on the roof, so no antenna measurements for a few more weeks. One might also suggest that it affects my math and memory, but they're currently just as bad as always.

>But, excellent point, glad you mentioned it ... but you are right, my
>elements end up being filed down a bit from the figures the calculator
>spits out ...

Suggestion: I always build a 3 element yagi first. Just the director, driven element, and reflector. With the antenna on the bench (after clearing off the chain saw and bicycle repair debris), I run a fairly wide sweep using a reflection coefficient bridge or VSWR bridge to an oscilloscope. I then trim the various elements for resonance. My sweeper has a marker generator, but an external generator (or wi-fi trash generator) can also be used. Adding additional elements does change the tuning a bit, but the really big frequency determining elements are the first 3 elements.
<http://802.11junk.com/jeffl/pics/home/slides/lab.html>
Incidentally, don't forget the mounting bracket. I just hate it when I prototype an antenna, and then find that the bracket, radome, potting foam, serial number sticker, or other irrelevent hardware detune the antenna.

Another trick that I use with wire rod type of antennas is to thread the end of the rods. Attached to these are threaded standoffs. These can be rotated to adjust the length of the elements. Also, don't forget to round off or chamfer the ends of each element to improve the bandwidth.

1AM. Time to give up before I start babbling nonsense.

>Warm regards,
>JS

Bah-Humbug (T'is the season).

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From 3695430689686963970
X-Google-Thread: fcc6e,53719fb70b4edb6c
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newsfeed.straub-nv.de!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Mon, 08 Dec 2008 00:59:16 -0800
Organization: albasani.net
Lines: 25
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References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net> <g87r06-
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rec.radio.amateur.homebrew:1461

Jeff Liebermann wrote:

> ...

> Maybe, but more likely, not enough RF to do anything useful with an
> un-amplified meter.
>
> What's missing from everyone's posting is what they plan to do with
> this field strength meter.
>
> Let's play with the numbers. The average wi-fi access point belches
> about +12dBm (32 mw) RF into an antenna with perhaps 2dBi gain. The

Hmmm, max power for a wifi router is 1 watt!

Here is a full power one:

http://www.wirelessnetworkproducts.com/index.asp?PageAction=VIEWPROD&ProdID=1425

The router I presently use is "belching" 500mw into a 7.5db antenna
(well, I might question the 7.5db ...)

Throw out your access point man! Get a decent one ...

Regards,
JS

From -3599986500109435779
X-Google-Thread: fcc6e,53719fb70b4edb6c
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From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.antenna:8146 rec.radio.amateur.homebrew:1759

On Mon, 08 Dec 2008 00:59:16 -0800, John Smith <assemblywizard@gmail.com> wrote:

>Jeff Liebermann wrote:
>
>> ...
>> Maybe, but more likely, not enough RF to do anything useful with an
>> un-amplified meter.
>>
>> What's missing from everyone's posting is what they plan to do with
>> this field strength meter.
>>
>> Let's play with the numbers. The average wi-fi access point belches
>> about +12dBm (32 mw) RF into an antenna with perhaps 2dBi gain. The

>Hmmm, max power for a wifi router is 1 watt!

I said "average wi-fi access point". 1 watt routers are relatively rare among the common home wireless routers. Most run about 32mw. Some Buffalo models run about 250mw. 2wire 2701 can run up to about 450mw. I think Enginius also makes one at around 1 watt.

The problem with this is what I call the "alligator" effect. An alligator is an animal with a big mouth and small ears. Running a 1 watt access point will make the xmitter heard over a much wider area than it can hear the responses from the clients. Unless the other end of the link (i.e. client radios) are also running the same high power level, the range will be limited by the clients tx power. In other words, the system gain and power levels in both directions have to be evenly matched to avoid turning the high power access point into what I consider to be no better than a jamming transmitter. If you need a slogan, you should use "only as much power as necessary" which doesn't mean crank it up to the max. Please print this slogan on a large sign and plaster it in front of your desk until the meaning sinks in. Also, note that most modern communications technologies includes automatic transmit power control (usually based on RX SNR or BER) to prevent alligators and systems like yours from becoming a problem.

>Here is a full power one:
>http://www.wirelessnetworkproducts.com/index.asp?PageAction=VIEWPROD&ProdID=1425
>The router I presently use is "belching" 500mw into a 7.5db antenna
>(well, I might question the 7.5db ...)

Turn down the power to about 100mw. The antenna is fine because it results in a symmetrical improvement in system gain. Also, give

yourself a slap on the wrist, repent your evil ways, and pray for
forgiveness.

>Throw out your access point man! Get a decent one ...

You haven't seen my office. I never throw anything away.

>Regards,
>JS

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

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From 7479561646301446707
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
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newsfeed.straub-nv.de!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Mon, 08 Dec 2008 01:51:53 -0800
Organization: albasani.net
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Xref: g2news1.google.com rec.radio.amateur.antenna:6369
rec.radio.amateur.homebrew:1463
```

Jeff Liebermann wrote:

> ...
> Turn down the power to about 100mw. The antenna is fine because it
> results in a symmetrical improvement in system gain. Also, give
> yourself a slap on the wrist, repent your evil ways, and pray for
> forgiveness.
>
>> Throw out your access point man! Get a decent one ...
>
> You haven't seen my office. I never throw anything away.
>
>> Regards,
>> JS

Yes, my AP's software allows for power control. Indeed, the AP will,
automatically, only supply enough power to make a, almost, error free
transmission link.

Having one side of transmission link error free is MUCH superior to have
both sides error prone!

However, although I have a pocketfull of various USB dongles, my
external USB wifi "card" is the highest output I could find which is
cost effective (@ 500mw.) External USB being powered off the USB buss
must stay 500ma (@ 5v) or below, total consumption. And, would more
than allow for a 1 watt USB dongle.

Here is a USB card to match my router:

http://www.data-alliance.net/servlet/the-90/802.11g-USB-802.11b-802.11n/Detail

Try one, you'll like it, "Mikey does!" <grin>

Regards,
JS

From -5187415902711338968
X-Google-Thread: fc2a5,4cec8e316e6881c9,start
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From: "Theo" <theodore.twyler@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Millen items anyone?
Lines: 12
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180

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Date: Mon, 8 Dec 2008 09:58:51 -0000
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Organization: virginmedia.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:1464

I am looking for the following items:-

Two Millen 64456 456kc Interstage I.F. Transformers
One  Millen 64454 456kc I.F. Diode Transformer
One  Millen 65456 456kc BFO Assembly

Any assistance would be gratefully accepted.

Theo





From -4590186570736061352
X-Google-Thread: 105eed,afb7c69c6643497c
X-Google-Thread: 10fafe,7fd40f11a6b803d3,start
X-Google-Thread: ffcf3,d963f26a418b15fd
X-Google-Thread: fc2a5,12dee750b351a0ef
X-Google-Attributes: gid105eed,gid10fafe,gidffcf3,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news4.google.com!goblin1!
goblin.stu.neva.ru!eweka.nl!hq-usenetpeers.eweka.nl!cyclone03.ams.highwinds-
media.com!news.highwinds-media.com!npeersf02.ams.highwinds-media.com!
newsfe20.ams2.POSTED!7564ea0f!not-for-mail
From: "Theo" <theodore.twyler@ntlworld.com>
Newsgroups:
sfnet.harrastus.autot.maahantuonti,sfnet.harrastus.tanssi,sfnet.tori.myydaan.muut,
rec.radio.amateur.homebrew
References: <487516c3$0$15000$8f74b9c5@news.maxinetti.fi>
<3drhk.189$Rh.145@ulogisk.com>
Subject: Re: testi-testi
Lines: 3
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <vg6%k.3804$3M4.1132@newsfe20.ams2>
Date: Mon, 8 Dec 2008 10:01:58 -0000
NNTP-Posting-Host: 86.15.197.154
X-Complaints-To: http://netreport.virginmedia.com
```

```
X-Trace: newsfe20.ams2 1228730523 86.15.197.154 (Mon, 08 Dec 2008 10:02:03 UTC)
NNTP-Posting-Date: Mon, 08 Dec 2008 10:02:03 UTC
Organization: virginmedia.com
Xref: g2news1.google.com sfnet.harrastus.autot.maahantuonti:131
sfnet.harrastus.tanssi:91 sfnet.tori.myydaan.muut:580
rec.radio.amateur.homebrew:1465
```

Have you Finnished?

```
From 2325364820856761215
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2!eweka.nl!hq-
usenetpeers.eweka.nl!cyclone03.ams.highwinds-media.com!news.highwinds-media.com!
npeersf01.ams.highwinds-media.com!newsfe20.ams2.POSTED!7564ea0f!not-for-mail
From: "Theo" <theodore.twyler@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<gh95kc$ats$1@news.albasani.net>
Subject: Re: 6L6 substitute
Lines: 3
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <pl6%k.3844$3M4.1113@newsfe20.ams2>
Date: Mon, 8 Dec 2008 10:07:11 -0000
NNTP-Posting-Host: 86.15.197.154
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe20.ams2 1228730837 86.15.197.154 (Mon, 08 Dec 2008 10:07:17 UTC)
NNTP-Posting-Date: Mon, 08 Dec 2008 10:07:17 UTC
Organization: virginmedia.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:1763
```

You could try the 5B/254M which is a smaller and slimmer version of the 807.

```
From -2510023667605870862
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!goblin1!goblin.stu.neva.ru!eweka.nl!hq-
usenetpeers.eweka.nl!cyclone03.ams.highwinds-media.com!news.highwinds-media.com!
npeersf02.ams.highwinds-media.com!newsfe20.ams2.POSTED!7564ea0f!not-for-mail
From: "Theo" <theodore.twyler@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
```

References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<29Sdnd3YCv0my6TUnZ2dnUVZ_gqdnZ2d@web-ster.com>
<12f9873b-6e91-42a5-8591-8c7c09d14a4c@d23g2000yqc.googlegroups.com>
Subject: Re: 6L6 substitute
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <nt6%k.3910$3M4.2160@newsfe20.ams2>
Date: Mon, 8 Dec 2008 10:15:42 -0000
NNTP-Posting-Host: 86.15.197.154
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe20.ams2 1228731347 86.15.197.154 (Mon, 08 Dec 2008 10:15:47 UTC)
NNTP-Posting-Date: Mon, 08 Dec 2008 10:15:47 UTC
Organization: virginmedia.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:1467

"JIMMIE" <jimmie68@gmail.com> wrote in message
news:12f9873b-6e91-42a5-8591-8c7c09d14a4c@d23g2000yqc.googlegroups.com...
.
My next project may be building a little super rengerative receiver.

You mean a regenerative receiver, surely?

From 5235692083660189104
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!v15g2000yqn.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Date: Mon, 8 Dec 2008 05:24:56 -0800 (PST)
Organization: http://groups.google.com
Lines: 13
Message-ID: <5f35c586-832d-4514-a23c-65acd76a8fef@v15g2000yqn.googlegroups.com>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
     <29Sdnd3YCv0my6TUnZ2dnUVZ_gqdnZ2d@web-ster.com>
<12f9873b-6e91-42a5-8591-8c7c09d14a4c@d23g2000yqc.googlegroups.com>
     <nt6%k.3910$3M4.2160@newsfe20.ams2>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1228742696 10519 127.0.0.1 (8 Dec 2008 13:24:56 GMT)
X-Complaints-To: groups-abuse@google.com

```
NNTP-Posting-Date: Mon, 8 Dec 2008 13:24:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v15g2000yqn.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1468

On Dec 8, 5:15=A0am, "Theo" <theodore.twy...@ntlworld.com> wrote:
> "JIMMIE" <jimmi...@gmail.com> wrote in message
>
> news:12f9873b-6e91-42a5-8591-8c7c09d14a4c@d23g2000yqc.googlegroups.com...
> .
> My next project may be building a little super rengerative receiver.
>
> You mean a regenerative receiver, surely?

Yes one should not type and carry on a conversation with thier wife
at  the same time.

Jimmie



From 4209391814814751574
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!flph200.ffdc.sbc.com!prodigy.net!
flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!nlpi068.nbdc.sbc.com.POSTED!
ac3deb13!not-for-mail
From: SparkyGuy <sparkyguy@mumcrank.ck>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C5628A57006A7532B01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Antenna dimensions?
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net> <g87r06-
b4r.ln1@radagast.org> <0001HW.C560C363002469FFB01AD9AF@news.sf.sbcglobal.net>
<fnbt06-um1.ln1@radagast.org> <ghh674$bc5$1@news.albasani.net>
<ghh6o8$bc5$2@news.albasani.net>
<0001HW.C56169EA0026DBAEB01AD9AF@news.sf.sbcglobal.net>
<ghhk9r$sb6$1@news.albasani.net>
<0001HW.C5620B8E004CBE0BB01AD9AF@news.sf.sbcglobal.net>
<ghikb2$pia$1@news.albasani.net> <ghikdj$pia$2@news.albasani.net>
Lines: 15
NNTP-Posting-Host: 67.124.37.94
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi068.nbdc.sbc.com 1228753496 ST000 67.124.37.94 (Mon, 08 Dec 2008
```

11:24:56 EST)
NNTP-Posting-Date: Mon, 08 Dec 2008 11:24:56 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
Q[R_PJON]JTURSD[LRHDM^P@VZ\LPCXLLBWLOOAFQATJUZ]CDVW[AKK[J\]^HVKHG^EWZHBLO^[\NH_AZF
WGN^\DHNVMX_DHHX[FSQKBOTS@@BP^]C@RHS_AGDDC[AJM_T[GZNRNZAY]GNCPBDYKOLK^_CZFWPGHZIXW
@C[AFKBBQS@E@DAZ]VDFUNTQQ]FN
Date: Mon, 8 Dec 2008 08:24:55 -0800
Xref: g2news2.google.com rec.radio.amateur.antenna:8151
rec.radio.amateur.homebrew:1766

> http://www.n6mrx.com/Antenna/Cubical-Quad1.htm

Thanks for the link. The calculator works for me.

One remaining Q: how do I take into account the "pigtails" of the driven
element? A nice square loop is nice, but I've got to connect it to the
(relatively) big diode, and this requires a bit more wire from the loop to
the diode (on the + side of the loop) and to the meter connector (on the -
side). Do I include these wire lengths in the loop size calculation? Or
ignore them?

Or does the 1000pF cap effectively terminate the loop (re. size)?

Thanks.

From 4767095224389172989
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe08.iad.POSTED!7564ea0f!not-for-mail
From: Bruce W. Ellis <ellis@means.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Organization: Not much
Reply-To: ellis*nospam*@means.net
Message-ID: <kciqj4h7vc1pvfm2526ck87fhspcojlrtd@4ax.com>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<gh95kc$ats$1@news.albasani.net> <pl6%k.3844$3M4.1113@newsfe20.ams2>
X-Newsreader: Forte Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 12
NNTP-Posting-Host: cemanefaibpodkimglljobhobokhhogk
X-Complaints-To: abuse@charter.net
X-Trace:
chhpdeimhjhhahnffkhgnhldfhiklkalokgnefanecebmakbcemanefaibpodkimggghocdondpdlcglpb
geklfgnpmafnpaomgnlefphppmfgllcaemelcmeboaiggafdlbpmaelemcakjp

NNTP-Posting-Date: Mon, 08 Dec 2008 16:25:45 UTC
Date: Mon, 08 Dec 2008 10:25:30 -0600
Xref: g2news1.google.com rec.radio.amateur.homebrew:1470

On Mon, 8 Dec 2008 10:07:11 -0000, "Theo"
<theodore.twyler@ntlworld.com> wrote:

>You could try the 5B/254M which is a smaller and slimmer version of the 807.
>
Somewhat OT..   Oldtimers refer to a bottle of beer as an 807. Never
heard of a 6L6GT referred to that way. I suppose a whiskey bottle
could be called an 813.

Time for a couple of 807's.

Bruce W0BF

From 1036291814811616198
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Dec 2008 10:34:01 -0600
Date: Mon, 08 Dec 2008 08:34:06 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<29SdnaLYCv02yKTUnZ2dnUVZ_gqdnZ2d@web-ster.com>
<5gx_k.4672$n_5.1973@bignews7.bellsouth.net>
In-Reply-To: <5gx_k.4672$n_5.1973@bignews7.bellsouth.net>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <_v6dnSH6xpnk0aDUnZ2dnUVZ_h2dnZ2d@web-ster.com>
Lines: 78
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-pgatctUZ215jWY+rOmt0OuF8PgGX4PrxGDw1Ojp/
ejVNw5DST33fcl0MYLzKGKUYcRmJax07veHDUbb!
FDGUYu4sXCfYkWqI0VQwrly75vsFnCklZABCl+baiygeQ17LaGcvPiuQxU4MitmtCgb2rTqiPxIe!
LhjaJddFS39QhJw=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:1768

ken scharf wrote:
> Tim Wescott wrote:

>> On Thu, 04 Dec 2008 06:23:48 -0800, JIMMIE wrote:
>>
>>> After years of avoiding morse code I am finally getting into it. the
>>> ideal of operating a very simple transmitter appeals to my junkbox/
>>> trashcan construction mentality.
>>> I am looking for a substitue for a 6L6 that has the plate brought out
>>> the top. I was trying to build a little Glowbug transmitter but was
>>> having all kinds of problems neutralizing the the thing. I think I would
>>> have better luck if I can separate the grid and plate circuits from each
>>> other. I am considering an 807 as a replacement Suggestions would be
>>> appreciated.
>>>
>>> Jimmie
>>
>> Dunno if it's been mentioned yet -- 2E26. The 807 is _not_ a 6L6 in a
>> different envelope -- it's quit arguably the 6L6's big brother, but
>> it's got different ratings; it could probably be shoe-horned into a
>> circuit designed for the 6L6, but you'd be missing out on about 6dB of
>> final output power.
>>
> The 807 IS a 6L6G with a 5 pin base and the plate connected to the top.
> The published ratings of the 6L6G look different than the 807 because of
> their intended use. ICAS ratings for the 6L6G were never published.
> Also the 807 has additional shielding and insulation over the 6L6G that
> make it usable at higher frequencies and voltages than the 6L6G. Most
> 807's have ceramic spaces to support the plate which are lacking in the
> 6L6G. But make no mistake about it, the two tubes share the IDENTICAL
> cathode, grids, and plate structures.
>
> The 6BG6G tv sweep tube IS an 807 with an octal base. It has the same
> ceramic plate supports, but lacks the extra rf shielding.
>
> The 1625 is an 807 with a 12.6 volt heater and a large (same as type
> '59) 7 pin base.
>
> The type 1614 is a metal tube based on the 6L6. It is a transmitting
> version, and probably has additional shielding. Otherwise its internal
> structure is the same as the 6L6 metal type.
>
> The type 1619 is sorta kinda a 6L6 with a directly heated 2.5v cathode.
> Same metal bulb as the 6L6. Specs' are different due to the different
> element spacing thanks to the filament cathode. This tube is often
> triode connected to replace 45's and 2A3's in old radios with a socket
> adapter.
>
> As a result the of the construction differences regarding shielding, the
> 807 often would NOT need neutralization while 6L6G's and 6BG6G tubes
> used as rf power amps do.
>
>
> The 6L6GA was identical to the 6L6G except that the bulb shrunk from an
> ST16 to an ST14 size. The 6L6GB was identical except for the bulb
> changing again to a T14. The 6L6GC is a totally different bottle with

> higher plate and screen dissipation and plate voltage ratings. The
> 6L6GC was said to be a plug in replacement for the older 6L6 tubes, but
> RCA kept the 6L6GB around for a while anyway. In fact a bias
> re-adjustment was a good idea when replacing an older 6L6 with the 'GC
> version if a cathode bias resistor wasn't used.
>

I bow to your superior knowledge.

How do you know? Time spent busting tubes and looking inside? Old-time service and/or circuit design experience? Experience building tubes?

I'd love to see a detailed family tree for some of the more popular tube types.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From -2557952902943164650
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Dec 2008 10:35:19 -0600
Date: Mon, 08 Dec 2008 08:35:24 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<29SdnaLYCv02yKTUnZ2dnUVZ_gqdnZ2d@web-ster.com>
<5gx_k.4672$n_5.1973@bignews7.bellsouth.net>
In-Reply-To: <5gx_k.4672$n_5.1973@bignews7.bellsouth.net>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <_v6dnSD6xpla0aDUnZ2dnUVZ_h2dnZ2d@web-ster.com>
Lines: 42
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
vhOKvKIx6PjVPMhj2Dhc3lqFhIJMpbbqzn20zGAukkQjA2UbaKHrlfAcq8Oly5Lbxc3sXUc3W9AtTmv!
wP9141c1wCYaS+tnt2+RSG1HqESdubVuLdKUsiJ0ZfePyXQWO+VCBuEyU7Nj9mpGaZrjkQHaBAd7!
tfH8m450Zfi5Liw=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers

```
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:1769

ken scharf wrote:
> Tim Wescott wrote:
>> On Thu, 04 Dec 2008 06:23:48 -0800, JIMMIE wrote:
>>
>>> After years of avoiding morse code I am finally getting into it. the
>>> ideal of operating a very simple transmitter appeals to my junkbox/
>>> trashcan construction mentality.
>>> I am looking for a substitue for a 6L6 that has the plate brought out
>>> the top. I was trying to build a little Glowbug transmitter but was
>>> having all kinds of problems neutralizing the the thing. I think I would
>>> have better luck if I can separate the grid and plate circuits from each
>>> other. I am considering an 807 as a replacement Suggestions would be
>>> appreciated.
>>>
>>> Jimmie
>>
>> Dunno if it's been mentioned yet -- 2E26.  The 807 is _not_ a 6L6 in a
>> different envelope -- it's quit arguably the 6L6's big brother, but
>> it's got different ratings; it could probably be shoe-horned into a
>> circuit designed for the 6L6, but you'd be missing out on about 6dB of
>> final output power.
>>
> The 807 IS a 6L6G with a 5 pin base and the plate connected to the top.
> The published ratings of the 6L6G look different than the 807 because of

-- snip --

> The type 1614 is a metal tube based on the 6L6.  It is a transmitting
> version, and probably has additional shielding. Otherwise its internal
> structure is the same as the 6L6 metal type.
>
How is the 6L6 metal type different internally from the 6L6G?

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html


From 8744403664044036487
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Dec 2008 11:06:40 -0600
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Mon, 08 Dec 2008 09:06:39 -0800
Message-ID: <49jqj4lha0fn08npu3kn3va9b6l83jvl0l@4ax.com>
References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net> <g87r06-b4r.ln1@radagast.org> <0001HW.C560C363002469FFB01AD9AF@news.sf.sbcglobal.net>
<W2iE4gpFj5OJFweJ@birchnet.demon.co.uk>
<493c4266$0$9582$afc38c87@news.optusnet.com.au>
<14kpj49614u4jrjm92sg5q0pqs5qapg3rv@4ax.com> <ghinl1$shf$1@news.albasani.net>
<hnopj4h6727gdtsjet4qke6o1j6lu0gkqa@4ax.com> <ghiqnm$aq$1@news.albasani.net>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 98
X-Trace: sv3-DWz1xs2BjZPjOvfxEtef0h+U22zWXi8TpSe76e6xpOsASaB1vpdllAgj0/rxAtRM/XVU4LQXUr8gW7Q!mqJAKW01n1Mc2mkc9pKdyJMo44etReZ4hcSOkmGoUlJnGPQkSHD42UaitZq6apMTlGipNnOwHyFg!n689Xw==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:6377 rec.radio.amateur.homebrew:1473

On Mon, 08 Dec 2008 01:51:53 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>Jeff Liebermann wrote:
>
>> ...
>> Turn down the power to about 100mw. The antenna is fine because it
>> results in a symmetrical improvement in system gain. Also, give
>> yourself a slap on the wrist, repent your evil ways, and pray for
>> forgiveness.
>>
>>> Throw out your access point man! Get a decent one ...
>>
>> You haven't seen my office. I never throw anything away.
>>
>>> Regards,
>>> JS

>Yes, my AP's software allows for power control. Indeed, the AP will,

>automatically, only supply enough power to make a, almost, error free
>transmission link.

I beg to differ. Unless I missed something in my post-midnight scan of the specs, the wireless router's TX power is set and forget. If it receives an extremely strong signal level report in the 802.11 management packet, the power remains the same. The ability to do power control is there (because each device reports its RX signal strength and SNR) but very few access points even try.

>Having one side of transmission link error free is MUCH superior to have
>both sides error prone!

I beg to differ. You're creating un-necessary interference. Let's play with the numbers.

The commodity wireless router belches about +12dBm. Yours is allegedly +27dBm. Range doubles for every 6dB increase in TX power. Therefore, your TX range is:

(27 - 12) / 6 = 7.5

time more than would be with a commodity wireless router. In terms of coverage area, that's:

7.5^2 = 56.3

times the area. Assuming a uniform density of WLAN users in your vicinity, you're trashing 56.3 times as many users or systems as necessary.

You're also partly wrong about asymmetrical systems being superior. The transition between a fairly good BER or PER (packet error rate) is rather abrupt. What happens is that the AP simply slows down the data rate until the PER improves. Since the connection speed can be different in each direction, you'll get very good speed in one direction, and probably very slow speed in the other. In addition, things go insane above 54Mbits/sec connection speed. You might have enough signal to go faster than 54Mbits/sec in one direction, but if it's lacking in the other direction, the AP will simply revert to 802.11g and limit the speed in the stronger direction to 54Mbits/sec. That's not a problem as few systems can operate reliably at 54Mbits/sec beyond a few meters range and in the presence of interference.

Meanwhile, you're operating an alligator, jamming 56 times as many users as necessary, and polluting the airwaves with your overpowered xmitter. It's like operating a kilowatt xmitter in the middle of the QRP frequencies. Your stuff gets through, but nobody else's. I suggest you do the math, repent your evil ways, offer sacrifice to the radio gods on the hibachi, slap yourself on the wrist several times for penitence, and stop playing with the dark side.

>However, although I have a pocketfull of various USB dongles, my
>external USB wifi "card" is the highest output I could find which is
>cost effective (@ 500mw.) External USB being powered off the USB buss
>must stay 500ma (@ 5v) or below, total consumption. And, would more

>than allow for a 1 watt USB dongle.

You would do better with a directional antenna, so as to not both
pickup and deliver interference from other systems. Antennas with
gain also improve the system gain in both directions, thus preventing
the creation of an alligator.

>Here is a USB card to match my router:
>http://www.data-alliance.net/servlet/the-90/802.11g-USB-802.11b-802.11n/Detail
>
>Try one, you'll like it, "Mikey does!" <grin>

Nope. Instead, I was instrumental in convincing at least one mesh
wi-fi vendor to reduce their poletop TX power, as they were causing
most of their own interference. Asymmetric systems suck.

>Regards,
>JS

Bah-Humbug (T'is the season).

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From 6117444796584O7994
X-Google-Thread: fc8b1,30bde57010031c1a,start
X-Google-Thread: fc2a5,30bde57010031c1a,start
X-Google-Thread: 108122,30bde57010031c1a,start
X-Google-Attributes: gidfc8b1,gidfc2a5,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y18g2000yqn.googlegroups.com!not-for-mail
From: mjsilva@embarqmail.com
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: FA: MOPA 2-Tube Transmitter Instant Junkbox parts assortment
Date: Mon, 8 Dec 2008 09:07:22 -0800 (PST)
Organization: http://groups.google.com
Lines: 10
Message-ID: <4fcc0d8f-5a41-46e9-be38-c1619125043f@y18g2000yqn.googlegroups.com>
NNTP-Posting-Host: 71.3.103.150
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1228756043 10979 127.0.0.1 (8 Dec 2008 17:07:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 8 Dec 2008 17:07:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com

Injection-Info: y18g2000yqn.googlegroups.com; posting-host=71.3.103.150;
     posting-account=1stP5woAAADDs6CGcEBL7H05Epw-H_jm
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
     .NET CLR 2.0.50727; .NET CLR 3.0.04506; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.boatanchors:1884
rec.radio.amateur.homebrew:1771 rec.radio.amateur.equipment:1142

I had this idea a while back, to thin out my stuff in what I think is
a useful and interesting way. Along the way I ended up having to buy
a bunch of new stuff as well (e.g. the brand new tune and load
variable caps). So take a look - might be a fun way to spend some
winter evenings.

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=160303721771

73,
Mike, KK6GM

From -2367855896047144632
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!v15g2000yqn.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Date: Mon, 8 Dec 2008 09:08:03 -0800 (PST)
Organization: http://groups.google.com
Lines: 43
Message-ID: <4cd6853b-e2a0-4efc-a938-a481af030f3c@v15g2000yqn.googlegroups.com>
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
     <6pqnq5F9fetmU1@mid.individual.net> <gh9kfq$ueh$1@news.albasani.net>
     <6j0_k.43032$zQ3.33628@newsfe12.iad>
NNTP-Posting-Host: 76.226.127.85
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1228756083 20402 127.0.0.1 (8 Dec 2008 17:08:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 8 Dec 2008 17:08:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v15g2000yqn.googlegroups.com; posting-host=76.226.127.85;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.4)
     Gecko/2008102920 Firefox/3.0.4,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1772

On Dec 4, 9:26=A0pm, "NoSPAM" <unkn...@nospam.org> wrote:

> "Stev eH"
> <StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjz=
sdgfgsfghgjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvb=
lyrylxybvryvbfbllyxd...@tfif.co.uk>
> wrote in messagenews:gh9kfq$ueh$1@news.albasani.net...
>
> > My first amp had 3 PL519s with a lethal power supply using a voltage
> > tripp{l}er direct off the 240V mains, heaters were direct off mains via=
 a
> > 1n5406 diode. It's still up in the parents loft somewhere, must dig it
> > out over the holidays and give it a try....
>
> > Steve H
>
> Do you realize that the RMS value of half-wave rectified AC is not one ha=
lf
> of the applied RMS voltage but rather 0.707 of the applied RMS voltage. =
=A0So
> your three 40 volt filament PL519s actually saw about 56 volts RMS across
> each filament.

Hey OM
I beg to differ. As any casual observer can see that peek is 330V and
the average would be 0.363 of the peak so that's 40 volts in my
calculator all day long, for a 3 tube string.

Lets take a square wave, the average would be 0.5 of peek, far lower
than 0.707 you are used to using. Even if it was full wave 120 cycle
dc, the average would only be 0.636 still lower than 0.707.

I tell you what. Take a diode and rectify the mains with it and
measure the DC voltage with a DVM, VTVM or a VOM and 0.363 of peak is
what you will get for a DC voltage on that meter. Or do the real
integral of the dv/dt and see for yourself.

The TV repair business I was in manufacturers put 50volt peak on a CRT
6.3volt filament, the average voltage was 6.3 volts. Lets see you RMS
that one.

73 OM

n8zu

From -8374357882333784788
X-Google-Thread: fcc6e,8595798a6a30ef54
X-Google-Thread: fc2a5,8595798a6a30ef54
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!x8g2000yqk.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew

Subject: Re: "Dual crimp" coax connectors?
Date: Mon, 8 Dec 2008 09:24:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 81
Message-ID: <08156e7a-1ba3-40ea-bf98-ed89a51b1f63@x8g2000yqk.googlegroups.com>
References: <0001HW.C561768E0029D229B01AD9AF@news.sf.sbcglobal.net>
     <ofqdncHyWvtIo6HUnZ2dnUVZ_hydnZ2d@web-ster.com> <3e69dca0-879f-4d57-
b413-5cfea58aee79@x8g2000yqk.googlegroups.com>
NNTP-Posting-Host: 76.226.127.85
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1228757068 14000 127.0.0.1 (8 Dec 2008 17:24:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 8 Dec 2008 17:24:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x8g2000yqk.googlegroups.com; posting-host=76.226.127.85;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.4)
     Gecko/2008102920 Firefox/3.0.4,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.antenna:6378
rec.radio.amateur.homebrew:1476

On Dec 7, 6:52=A0pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> On Dec 7, 4:23=A0pm, Tim Wescott <t...@seemywebsite.com> wrote:
>
>
>
> > On Sun, 07 Dec 2008 12:48:14 -0800, SparkyGuy wrote:
> > > Halfway down this page (it's a PDF doc):
>
> > > <http://www.cablesandconnectors.com/PIX/CC-040.pdf>
>
> > > the TNC and BNC connectors are advertised as "dual-crimp". What does
> > > this mean? "Dual" as in center in crimp and outer shield ferrule crim=
p?
>
> > > As opposed to what? Single-crimp? That would be connectors that use t=
he
> > > center, solid conductor as the center pin and then crimp the shield
> > > ferrule? Or...?
>
> > > Newly (did you guess?) into small coax connectors and trying to get t=
he
> > > terminology straight...
>
> > > Thanks.
>
> > The common BNC "crimp" connectors have you solder the center pin to the
> > center conductor of the cable, then assemble the outer with a crimp.
>
> > It works quite well in my experience, but I have yet to do this without

```
> > distorting the center insulator and having to trim it with an X-acto
> > knife to get it to fit, and I'm sure that in a critical application (li=
ke
> > TNC in the GHz) that I'd be creating an unpredictable impedance bump wi=
th
> > my hacking. =A0This is bad enough with cables that have solid dielectri=
c; I
> > can only imagine the pain it would be with foam. =A0In a production
> > environment I'd almost certainly want to spring for the necessary crimp
> > tool to crimp the inner, if the quality were there.
>
> > (This is opposed to BNC connectors where you thread in a plug to captur=
e
> > the outer conductor between the outer shell and a rubber insert. =A0It =
also
> > works well, but it is bulky and the connectors cost more. =A0And you're
> > still asked to solder the center pin on, with all of the accompanying
> > center insulator distortion issues).
>
> > --
> > Tim Wescott
> > Control systems and communications consultinghttp://www.wescottdesign.c=
om
>
> > Need to learn how to apply control theory in your embedded system?
> > "Applied Control Theory for Embedded Systems" by Tim Wescott
> > Elsevier/Newnes,http://www.wescottdesign.com/actfes/actfes.html-Hide qu=
oted text -
>
> > - Show quoted text -
>
> Tim, I solder these on the N connectors all the time with no problems.
> I have an old Weller soldering gun with the tip removed. I wedge the
> pin between the two electodes on the gun, slide the pin over the
> tinned center conductor and pull the trigger for a couple of seconds.
> The pin cools almost instantly preventing deformation of the
> insulation. Ive been doing this for over 20 years using the same gun.
> This may take a little practice not to melt the insulation. I
> remember =A0that it wasnt to bad getting the hang of it.
>
> Jimmie

Hey OM
What size gun did you has a 240watt? How did you get the electrodes so
close together? Isn't the center pin of an N connector really small?
Or maybe you making lots 7/8 inch of heliax cables huh? Where the
center conductor is like 3/8 in copper tubing. Where the 3/8 inch
copper tubing would conduct all the heat away from the insulation?


73 OM
n8zu
```

From 3421589708328751310
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Dec 2008 11:30:09 -0600
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Mon, 08 Dec 2008 09:30:08 -0800
Message-ID: <fjlqj4pgg2m4d4ac65vsqtcmdps3i5iutd@4ax.com>
References: <g87r06-b4r.ln1@radagast.org> <0001HW.C560C363002469FFB01AD9AF@news.sf.sbcglobal.net> <fnbt06-um1.ln1@radagast.org> <ghh674$bc5$1@news.albasani.net> <ghh6o8$bc5$2@news.albasani.net> <0001HW.C56169EA0026DBAEB01AD9AF@news.sf.sbcglobal.net> <ghhk9r$sb6$1@news.albasani.net> <0001HW.C5620B8E004CBE0BB01AD9AF@news.sf.sbcglobal.net> <ghikb2$pia$1@news.albasani.net> <ghikdj$pia$2@news.albasani.net> <0001HW.C5628A57006A7532B01AD9AF@news.sf.sbcglobal.net>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 27
X-Trace:
sv3-1Bgr9CjEppnqEPOmb2bfHRkSCj7zSWwQgi4RWsNKEhyOUujikoKUUEj9e13HolqacsfQd0PYsQwYIEO!6FfuvwnZs2opPQFoIsg6H7VafNhjKZUEP/jWd9BY40uvAnHDQ2M3bHfWgTvArInCrH818WbzNZj8!Eqvi2g==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:6380 rec.radio.amateur.homebrew:1477

On Mon, 8 Dec 2008 08:24:55 -0800, SparkyGuy <sparkyguy@mumcrank.ck> wrote:

>Q: how do I take into account the "pigtails" of the driven
>element? A nice square loop is nice, but I've got to connect it to the
>(relatively) big diode,

You don't need to include diode lead length in the quad antenna calculations. The "loop" in the quad driven element is just an LC tuned circuit. It's as bit less than one wavelength around the loop and resonated to 2.4GHz by the tuning cap. The diode and other components do add some capacitance, which will lower the frequency somewhat, but the adjustment cap is substantially larger than these capacitances. For example, the off capacitance of a Schottky diode is about 0.5pf. You do need to keep lead length short as the added inductance will act as an RF choke.

However, instead of the giant diode, I suggest something smaller and better, such as a Schottky diode:
<http://www.adsemi.com/diodes/schottky_barrier_mixer_detector.shtml>
<http://www.macom.com/psc/jsp/ListParts.jsp?dataFile=mixing_detector_diodes.txt>

```
-- 
Jeff Liebermann     jeffl@cruzio.com
150 Felker St #D    http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann     AE6KS    831-336-2558
```

```
From -1923450734189046013
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nlpi057.nbdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!
prodigy.com!flpi107.ffdc.sbc.com!nlpi070.nbdc.sbc.com.POSTED!ac3deb13!not-for-mail
From: SparkyGuy <sparkyguy@mumcrank.ck>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C5629CEF006ED092B01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Antenna dimensions?
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <g87r06-b4r.ln1@radagast.org>
<0001HW.C560C363002469FFB01AD9AF@news.sf.sbcglobal.net> <fnbt06-
um1.ln1@radagast.org> <ghh674$bc5$1@news.albasani.net>
<ghh6o8$bc5$2@news.albasani.net>
<0001HW.C56169EA0026DBAEB01AD9AF@news.sf.sbcglobal.net>
<ghhk9r$sb6$1@news.albasani.net>
<0001HW.C5620B8E004CBE0BB01AD9AF@news.sf.sbcglobal.net>
<ghikb2$pia$1@news.albasani.net> <ghikdj$pia$2@news.albasani.net>
<0001HW.C5628A57006A7532B01AD9AF@news.sf.sbcglobal.net>
<fjlqj4pgg2m4d4ac65vsqtcmdps3i5iutd@4ax.com>
Lines: 5
NNTP-Posting-Host: 67.124.37.94
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi070.nbdc.sbc.com 1228758255 ST000 67.124.37.94 (Mon, 08 Dec 2008
12:44:15 EST)
NNTP-Posting-Date: Mon, 08 Dec 2008 12:44:15 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
Q[R_@SFD\ZVER_@Y@BCD^VX@WB]^PCPDLXUNNHLHQAVTUZ]CLNTCPFK[WDXDHV[K^FCGJCJLPF_D_NCC@F
```

```
UG^Q\DINVAXSLIFXYJSSCCALP@PB@\OS@BITWAH\CQZKJMMD^SJA^NXA\GVLSRBD^M_NW_F[YLVTWIGAXA
QBOATKBBQRXECDFDMQ\DZFUE@\JM
Date: Mon, 8 Dec 2008 09:44:15 -0800
Xref: g2news2.google.com rec.radio.amateur.antenna:8161
rec.radio.amateur.homebrew:1775

> You don't need to include diode lead length in the quad antenna
> calculations.

Thanks, Jeff. Very much appreciated.




From 6462589021041968573
X-Google-Thread: fc2a5,d52b4755bda28509
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!41g2000yqf.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Passive grid linear
Date: Mon, 8 Dec 2008 10:19:30 -0800 (PST)
Organization: http://groups.google.com
Lines: 29
Message-ID: <ab91cae7-f6e3-4852-ad44-2db2a3025edf@41g2000yqf.googlegroups.com>
References: <pQBXk.774$nD1.745@bignews5.bellsouth.net>
NNTP-Posting-Host: 75.190.189.120
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 8 Dec 2008 18:19:30 +0000 (UTC)
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1479

On Nov 27, 1:45=A0pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
> Anybody here ever build a passive grid linear amp?
> That's where you simply terminate the grid of a tetrode with a 50 ohm
> resistor and just drive it directly. =A0Svetlana recommended that
> configuration with their 4cx400, 4xc800 and 4cx1600 tubes, and it should
> work well with more commone surplus 4cx250's.
>
> I was thinking of using a 4:1 or 9:1 balum and increasing the grid
> resistor value to 200 or 450 ohms to reduce the amount of driving power
> required. =A0With the 4cx250 a peak grid drive of about 50 volts is
> required in class AB1. =A0With a 50 ohm termination the driving power
```

> would be 50 watts, with a 200 ohm =A0termination 12.5 watts, and with the
> 450 ohm termination 5.6 watts. =A0That's actually just the power sucked u=
p
> in the resistor, but the tube requires less than 1 watt of drive itself
> in class AB1. =A0Some power might be lost in the balum, so maybe the
> actual driving power might increase by a watt or two. =A0 Since I wanted
> this to be a final for a QRP rig the larger terminating resistance
> looked like a better way to go. =A0The only issue is how high can you go
> with the termination resistance and keep the tube stable without
> neutralization being required?

I was recently playing around with a 6DQ6 PA and it did not require
netralization with 2K ohms on the gridI didnt try anything higher than
that. Using broadband transformers will introduce some reactance that
may have to be tuned out. I suspect this may not become a problem
until you get up to 10M or so.

Jimmie

From -1236507782269024443
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X-Google-Thread: fc2a5,53719fb70b4edb6c
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From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Mon, 08 Dec 2008 11:32:57 -0800
Organization: albasani.net
Lines: 139
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X-Antivirus-Status: Clean

X-Antivirus: avast! (VPS 081208-0, 12/08/2008), Outbound message
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User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
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Xref: g2news1.google.com rec.radio.amateur.antenna:6395
rec.radio.amateur.homebrew:1480

Jeff Liebermann wrote:

>
> I beg to differ. Unless I missed something in my post-midnight scan
> of the specs, the wireless router's TX power is set and forget. If it
> receives an extremely strong signal level report in the 802.11
> management packet, the power remains the same. The ability to do
> power control is there (because each device reports its RX signal
> strength and SNR) but very few access points even try.
>

You are speaking of the specs on the USB card, I am speaking access
point ... and actually, I have never searched for power-throttling in
the USB card, I simply would not use it ... when the wife and I go out
and I search for APs, I want every possible mw in action, at a clients,
hotel, hospital, etc.

>> Having one side of transmission link error free is MUCH superior to have
>> both sides error prone!
>
> I beg to differ. You're creating un-necessary interference. Let's
> play with the numbers.
>

Let's not, I said what I meant, and meant what I said, one side error
free is better than two sides error prone.

> The commodity wireless router belches about +12dBm. Yours is
> allegedly +27dBm. Range doubles for every 6dB increase in TX power.
> Therefore, your TX range is:
>   (27 - 12) / 6 = 7.5
> time more than would be with a commodity wireless router. In terms of
> coverage area, that's:
>   7.5^2 = 56.3
> times the area. Assuming a uniform density of WLAN users in your
> vicinity, you're trashing 56.3 times as many users or systems as
> necessary.
>

No problem. I don't live in a dorm, trailer park, high-rise or
apartment building ... the software will automatically adjust to find
the best chan and recheck this decision, from time-to-time. If others
don't have that capability, they may wish to upgrade ... like I have
strongly implied, already, "If your AP is crap, toss it out!" I can't
imagine anyone here who failed to read specs before purchasing, however ???

> You're also partly wrong about asymmetrical systems being superior. The transition between a fairly good BER or PER (packet error rate) is rather abrupt. What happens is that the AP simply slows down the data rate until the PER improves. Since the connection speed can be different in each direction, you'll get very good speed in one direction, and probably very slow speed in the other. In addition, things go insane above 54Mbits/sec connection speed. You might have enough signal to go faster than 54Mbits/sec in one direction, but if it's lacking in the other direction, the AP will simply revert to 802.11g and limit the speed in the stronger direction to 54Mbits/sec. That's not a problem as few systems can operate reliably at 54Mbits/sec beyond a few meters range and in the presence of interference.
>

The equip can do b/g/n (b&g for the usb card in question, multiple computers here) With a windows widget to monitor my ap/card connection (transfer rate, errors, signal strength, etc.), I see it rise and fall from time to time. Sometimes I have seen the connection renegotiate from n to g to b ... however, at this same time AirSnare has went nuts. Seems wardriving teens are to blame ... <grin> I was a teen once, so long ago, I fear I may forget ... :-(

But, I will tell you, if ever I notice a problem with the errors (just looked, 3 errors), I will remember your words.

> Meanwhile, you're operating an alligator, jamming 56 times as many users as necessary, and polluting the airwaves with your overpowered xmitter. It's like operating a kilowatt xmitter in the middle of the QRP frequencies. Your stuff gets through, but nobody else's. I suggest you do the math, repent your evil ways, offer sacrifice to the radio gods on the hibachi, slap yourself on the wrist several times for penitence, and stop playing with the dark side.
>

Although, I am sure one or two of my neighbors are savvy enough to set their routers into non-broadcast mode of the SSID, and have WPA and filter on mac addresses, I just don't see the traffic/jam you speak of. But, like I say, if I do, I shall remember your words.

>> However, although I have a pocketfull of various USB dongles, my external USB wifi "card" is the highest output I could find which is cost effective (@ 500mw.) External USB being powered off the USB buss must stay 500ma (@ 5v) or below, total consumption. And, would more than allow for a 1 watt USB dongle.
>
> You would do better with a directional antenna, so as to not both pickup and deliver interference from other systems. Antennas with gain also improve the system gain in both directions, thus preventing the creation of an alligator.
>

No, I would NOT. When I take my laptop and USB antenna analyzer out to the antenna(s), I appreciate my omni. When I take my laptop and USB ODB II out to the car (in another direction), I appreciate my omni. When teens go by wardriving and trigger AirSnare warnings (and giving me one-hell-of-a-kick!), I appreciate my omni. You hang around with the old men here, beware the cynicism, it IS contagious!

>> Here is a USB card to match my router:
>> http://www.data-alliance.net/servlet/the-90/802.11g-USB-802.11b-802.11n/Detail
>>
>> Try one, you'll like it, "Mikey does!" <grin>
>
> Nope. Instead, I was instrumental in convincing at least one mesh
> wi-fi vendor to reduce their poletop TX power, as they were causing
> most of their own interference. Asymmetric systems suck.
>

Beware. Again you risk being controlled by the control freaks here. Glad it works for you, attempt to enforce it for me, we have a battle ... you know, there is equip and hacks available to open up chans far in excess of what is legal, I am sure some are savvy and use them ... perhaps teenagers? <straight face> I have even heard of some flashing their ap/cards with the foreign version of the software for them and exceeding power/chans ... shame on them! :-|

>> Regards,
>> JS
>
> Bah-Humbug (T'is the season).
>

However, you provide good discussion, and have valid arguments, I am sure--some will agree with and appreciate--perhaps even some which are state-of-the-art!

Personally, I would NEVER suggest purchasing an AP/card with less than 350mw capability. And, only then if you get one-hell-of-a-buy.

Warm regards,
JS

From 7205382951860287084
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
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From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Mon, 08 Dec 2008 11:35:12 -0800

Organization: albasani.net
Lines: 17
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Xref: g2news2.google.com rec.radio.amateur.antenna:8174
rec.radio.amateur.homebrew:1778

John Smith wrote:

> ...
> Personally, I would NEVER suggest purchasing an AP/card with less than
> 350mw capability. And, only then if you get one-hell-of-a-buy.
>
> Warm regards,
> JS
>

Sorry to have been so verbal. I could have summed that up rather
quickly, nicely and sweetly, I choose not to ...

You see millions of cell phones; You see a LOT of problems?

Regards,
JS

From -1624784985024825179
X-Google-Thread: fc8b1,faaaf697f63f0721,start
X-Google-Thread: fc2a5,faaaf697f63f0721,start
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nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!newspeer.monmouth.com!
newsswitch.lcs.mit.edu!bloom-beacon.mit.edu!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: MC2831
Date: 8 Dec 2008 14:38:58 -0500
Organization: Former users of Netcom shell (1989-2000)
Lines: 10
Message-ID: <ghjt4i$ihr$1@panix2.panix.com>
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X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 8 Dec 2008 19:38:54 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.boatanchors:1886
rec.radio.amateur.homebrew:1779

Not really a boatanchor question, but I am looking for some of the old
Motorola MC2831 FM transmitter chips which were discontinued a decade or
so ago. I'd take one of the MC2833 chips which are similar (they have a second
dedicated transistor instead of a tone generator on-chip).   I'd prefer
the DIP package but I'd even take an SMT that I could stick on an adaptor.

Anybody got a couple in their junk box?
--scott
--
"C'est un Nagra. C'est suisse, et tres, tres precis."

From -5956119572292887209
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X-Google-Thread: fc2a5,53719fb70b4edb6c
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Path: g2news2.google.com!news3.google.com!feeder.news-service.com!
news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Mon, 08 Dec 2008 11:39:20 -0800
Organization: albasani.net
Lines: 26
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X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 081208-0, 12/08/2008), Outbound message
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User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
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Xref: g2news2.google.com rec.radio.amateur.antenna:8176
rec.radio.amateur.homebrew:1780

SparkyGuy wrote:
>> http://www.n6mrx.com/Antenna/Cubical-Quad1.htm
>
> Thanks for the link. The calculator works for me.
>
> One remaining Q: how do I take into account the "pigtails" of the driven
> element? A nice square loop is nice, but I've got to connect it to the
> (relatively) big diode, and this requires a bit more wire from the loop to
> the diode (on the + side of the loop) and to the meter connector (on the -
> side). Do I include these wire lengths in the loop size calculation? Or
> ignore them?
>
> Or does the 1000pF cap effectively terminate the loop (re. size)?
>
> Thanks.
>

You MUST take into consideration every single mm of the loops length!
Leads (apparently "pigtails") ARE the loop ...

But, nothing stops you from being creative. The guy whos'
construction(s) we are following did have about optimum parts to work
with--you will just have to be "creative" ... good-luck.

Warm regards,
JS

From 6561137074824283875
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.germany.com!news.musoftware.de!
wum.musoftware.de!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew

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Subject: Re: Antenna dimensions?
Date: Mon, 08 Dec 2008 11:40:37 -0800
Organization: albasani.net
Lines: 13
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rec.radio.amateur.homebrew:1484
```

Jeff Liebermann wrote:

> ...
> However, instead of the giant diode, I suggest something smaller and
> better, such as a Schottky diode:
> <http://www.adsemi.com/diodes/schottky_barrier_mixer_detector.shtml>
> <http://www.macom.com/psc/jsp/ListParts.jsp?dataFile=mixing_detector_diodes.txt>
>

SMC sounds good ...

Regards,
JS

```
From -5318497371137076842
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X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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Path: g2news1.google.com!news2.google.com!news.glorb.com!news2!feeder.erje.net!
newsfeed.straub-nv.de!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Mon, 08 Dec 2008 11:42:07 -0800
Organization: albasani.net
Lines: 12
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<ghikb2$pia$1@news.albasani.net> <ghikdj$pia$2@news.albasani.net>
<0001HW.C5628A57006A7532B01AD9AF@news.sf.sbcglobal.net>
<fjlqj4pgg2m4d4ac65vsqtcmdps3i5iutd@4ax.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net Eq5WASpAPmUhiFCtUV4jn58fhHcFjusfrGyM1cfIYfy6yjpB/
MV4VRNkiDqyG/qWkXE7mfc5zz8O9y+SA/2EoWnEZh/2+m/YNdwrL4QAx+6EcCBZDMeZiWB7/FN/TtGq
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Mon, 8 Dec 2008 19:42:07 +0000 (UTC)
X-User-ID: Gz03uXiKPQas6cZ7rJDGGsMGnd9j1prKVyrrBtoc5GM=
In-Reply-To: <fjlqj4pgg2m4d4ac65vsqtcmdps3i5iutd@4ax.com>
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 081208-0, 12/08/2008), Outbound message
Cancel-Lock: sha1:ZCyXJwyOGsdtYPkvo013ystTJ9A=
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
X-NNTP-Posting-Host: g/S8w5Kn1gH20tJlNbRN8MXvzNrbxg0nO/wSS66BMO4=
Xref: g2news1.google.com rec.radio.amateur.antenna:6400
rec.radio.amateur.homebrew:1485
```

Jeff Liebermann wrote:

>
> You don't need to include diode lead length in the quad antenna
> calculations. The "loop" in the quad driven element is just an LC
> ...

Hmmm, perhaps I read him wrong, you ARE correct here ... that
clarification is appreciated.

Regards,
JS

```
From 1842645822049816770
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
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X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Dec 2008 14:08:04 -0600
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net>
<14kpj49614u4jrjm92sg5q0pqs5qapg3rv@4ax.com> <ghinl1$shf$1@news.albasani.net>
<hnopj4h6727gdtsjet4qke6o1j6lu0gkqa@4ax.com>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Mon, 8 Dec 2008 11:17:10 -0800
Message-ID: <me8016-mft.ln1@radagast.org>
Lines: 36
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.159.209.148
X-Trace: sv3-
IJXFQyncMzq0duLf3kiSSlO0sfIYueLgCJMO0OmW+cuGhwcj+qExfvXlXlTA2vQtfXgb3tClp1UWySO!
igYcrbqdLVnWfI6in/UCzeZE45w9bI6b64Agjc0Tt8KUgciooPOSmPJhor36qw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.antenna:8182
rec.radio.amateur.homebrew:1783
```

In article <hnopj4h6727gdtsjet4qke6o1j6lu0gkqa@4ax.com>,

>The problem with this is what I call the "alligator" effect. An
>alligator is an animal with a big mouth and small ears. Running a 1
>watt access point will make the xmitter heard over a much wider area
>than it can hear the responses from the clients. Unless the other end
>of the link (i.e. client radios) are also running the same high power
>level, the range will be limited by the clients tx power. In other
>words, the system gain and power levels in both directions have to be
>evenly matched to avoid turning the high power access point into what
>I consider to be no better than a jamming transmitter.

A not-uncommon scenario, I think. I've seen APs which put out a signal that has useful strength for blocks, and yet you have to be within about 100 feet of them to establish contact with a typical client system.

This same issue is significant in other bands, as well. My area's ham-radio VHF/UHF repeater coordination group has a firm principle... a coordinated repeater's transmit coverage and receive coverage should be consistent. Having an ultra-high-powered transmitter simply causes interference well outside the repeater's practical use range.

Having overly-sensitive receivers can also be a problem, albeit a
lesser one, as it means that the repeater can be "keyed up" by remote
stations too far away to hear the repeater properly. It's less of
a problem, though, as most repeaters use CTCSS tone squelch these days
and won't respond to signals intended for co-channel repeaters with a
different CTCSS tone. I don't think this is an issue for 802.11
access points at all.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From -8035623505394185576
X-Google-Thread: fc8b1,faaaf697f63f0721
X-Google-Thread: fc2a5,faaaf697f63f0721
X-Google-Attributes: gidfc8b1,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Dec 2008 14:08:31 -0600
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
References: <ghjt4i$ihr$1@panix2.panix.com>
Subject: Re: MC2831
Date: Mon, 8 Dec 2008 15:08:29 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <74KdnYJ0AKoi46DUnZ2dnUVZ_hydnZ2d@giganews.com>
Lines: 28
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X-Trace: sv3-JPrLMmxAje7SzbQRXJVfsIxyw034AxlqxTVy/OwOC/
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JFWvh0lIMhz0zVdtF4UpMICWxG4M7UcMlhG/X5mQlfPhJ8Kp9
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.boatanchors:1531
rec.radio.amateur.homebrew:1487

"Scott Dorsey" <kludge@panix.com> wrote in message
news:ghjt4i$ihr$1@panix2.panix.com...
> Not really a boatanchor question, but I am looking for some of the old
> Motorola MC2831 FM transmitter chips which were discontinued a decade or

> so ago. I'd take one of the MC2833 chips which are similar (they have a
> second
> dedicated transistor instead of a tone generator on-chip).   I'd prefer
> the DIP package but I'd even take an SMT that I could stick on an adaptor.
>
> Anybody got a couple in their junk box?
> --scott
> --
> "C'est un Nagra. C'est suisse, et tres, tres precis."

Consolidated Electronics online catalog says they have the MC2831 in stock
(http://www.ceitron.com/semi/semi.phtml?part=MC2831).

Hth,
--
Dave M
MasonDG44 at comcast dot net (Just substitute the appropriate characters in the address)

Life is like a roll of toilet paper; the closer it gets to the end, the faster it goes.

From -7621060809446068291
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Dec 2008 14:36:36 -0600
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Mon, 08 Dec 2008 12:36:36 -0800
Message-ID: <k40rj4puigbjmi3mcqj3mg6p8pjnj6hjbg@4ax.com>
References: <g87r06-b4r.ln1@radagast.org>
<0001HW.C560C363002469FFB01AD9AF@news.sf.sbcglobal.net>
<W2iE4gpFj5OJFweJ@birchnet.demon.co.uk>
<493c4266$0$9582$afc38c87@news.optusnet.com.au>
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<hnopj4h6727gdtsjet4qke6o1j6lu0gkqa@4ax.com> <ghiqnm$aq$1@news.albasani.net>
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Content-Transfer-Encoding: 7bit
Lines: 38

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X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:6406 rec.radio.amateur.homebrew:1488

On Mon, 08 Dec 2008 11:35:12 -0800, John Smith <assemblywizard@gmail.com> wrote:

>You see millions of cell phones; You see a LOT of problems?

Oh yes, I certainly do see problems. They're well hidden and mitigated in various ways. For example, if the error rate climbs, the adaptive tx power control cranks up the power on both the handset and the cell site end. If it persists, you get disconnected. Rather than have the user sound like they're talking while gargling ball bearings, the cell site just pulls the plug. Incidentally, the tx power control algorithm is rather messy as it has to handle different data types, at different rates, all while doing its best not to drain the handset battery. One the cell site end, it's no better as the power consumption of a typical cell site is non-trivial.

Problems? Well:
<http://www.roughlydrafted.com/2008/08/28/the-inside-deets-on-iphone-202-and-dropped-calls/>
Hmmm... power control algorithm again.

Todays typical cell phones run about 150mw max average power output (according to the FCC ID data). Some are even less. None are anywhere near the 600mw legal maximum. If they could, you would have a dead battery within about an hour. (Do the math).

Back to wi-fi and your setup. Sure, you'll have fairly good preformance with a high power setup. 14 times the usual power is bound to do some good. However, I suspect your neighbors are not so thrilled and will probably also be shopping for higher power hardware. It will be like an arms race, where the biggest bomb allegedly wins. Dealing with mutual interference is no fun, especially with only 3 available non-overlapping channels.

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

```
From -1918068553192030788
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Dec 2008 15:00:05 -0600
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Mon, 08 Dec 2008 13:00:04 -0800
Message-ID: <uc1rj49tdhcnnhblc5gcf81sdgs1om6rl9@4ax.com>
References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net>
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<hnopj4h6727gdtsjet4qke6o1j6lu0gkqa@4ax.com> <me8016-mft.ln1@radagast.org>
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MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 75
X-Trace: sv3-
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lhn7EeMrRUxqYoL0G16EA7uPlkLQN1zXljLYJIN4filgJ3IIKz1+TWWwtOdQHBkgyF+2Lku3aHEV!
nac5vw==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:6407
rec.radio.amateur.homebrew:1489
```

On Mon, 8 Dec 2008 11:17:10 -0800, dplatt@radagast.org (Dave Platt) wrote:

>A not-uncommon scenario, I think. I've seen APs which put out a
>signal that has useful strength for blocks, and yet you have to be
>within about 100 feet of them to establish contact with a typical
>client system.

About a year ago, I was trying to find the source of a very strong 2.4GHz signal in the downtown Santa Cruz mall area. Wi-Fi communications among the various coffee shops and hot spots was ummm.... a challenge. I eventually traced it down to a tall residential hotel and a 2.4GHz cordless digital phone running what I guess was a 10 watt power amplifier. Instead of a cell phone, this person decided to provide his own cordless phone service that covered the entire downtown area. You could see it anywhere but as is predictable, his useful range was limited by the handset power, which was well less than 10 watts. I'm not going to go into detail on exactly what happened, but it should be sufficient that he's now aware of the problem he was causing and is off the air.

Be the first in your neighborhood to dominate the airwaves:
<http://www.ssbusa.com/kunamp1.html>
Cool... 50 watt linear on 2.4GHz. Now, we're cooking.

>This same issue is significant in other bands, as well. My area's ham-radio VHF/UHF repeater coordination group has a firm principle... a coordinated repeater's transmit coverage and receive coverage should be consistent. Having an ultra-high-powered transmitter simply causes interference well outside the repeater's practical use range.

Good plan but there are problems. Most hams these daze use walkie talkies with perhaps 1 watt of TX RF. The typical repeater is running perhaps 10 to 40 watts out (after the duplexer). The walkie can hear the repeater almost anywhere, but when trying to talk, they drop in and out all the time. The mobiles, which run more power, are usually well matched to the repeater's tx power. I've suggested adaptive tx power control (to preserve battery power) on our 2 meter repeater, but nobody wants it.

>Having overly-sensitive receivers can also be a problem, albeit a lesser one, as it means that the repeater can be "keyed up" by remote stations too far away to hear the repeater properly. It's less of a problem, though, as most repeaters use CTCSS tone squelch these days and won't respond to signals intended for co-channel repeaters with a different CTCSS tone.

We had a co-channel user that was running carrier squelch. It took only about 7 years of constantly pounding on the trustees before they would install PL. They lied on their NARCC application claiming they had a functional PL system. The experience taught me a few things, one of which is that hams generally make lousy RF neighbors.

>I don't think this is an issue for 802.11 access points at all.

No, it's not for most home systems. There's a similar coexistence problem with mesh networks and municipal networks. Neither of these scale very well. They work ok with a small number of repeaters, but rapidly foul up as the usage, traffic, and number of repeaters increases to the point of mutual interference. Details and a rant on request.

There's also a problem with wi-fi and omnidirectional antennas. These pickup and spew inference from all direction equally well. Same with reflections and multi-path. If the main area of operation can better be covered with a directional antenna, then it should be used. It may create hidden nodes, but those can be handled by enabling flow control.

--

Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

```
From -6913374277717450079
X-Google-Thread: fcc6e,8595798a6a30ef54
X-Google-Thread: fc2a5,8595798a6a30ef54
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Dec 2008 15:13:50 -0600
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: "Dual crimp" coax connectors?
Date: Mon, 08 Dec 2008 13:13:49 -0800
Message-ID: <ro2rj4ld7cokug911lal92fdh41sfdm1pb@4ax.com>
References: <0001HW.C561768E0029D229B01AD9AF@news.sf.sbcglobal.net>
<ofqdncHyWvtIo6HUnZ2dnUVZ_hydnZ2d@web-ster.com> <3e69dca0-879f-4d57-
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X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.antenna:8187
rec.radio.amateur.homebrew:1787
```

On Sun, 7 Dec 2008 15:52:21 -0800 (PST), JIMMIE <JIMMIEDEE123@YAHOO.COM> wrote:

>Tim, I solder these on the N connectors all the time with no problems.

In past life, in a land far far away (Smog Angeles), I once worked for and later ran a comm shop. At the time, UG-21/U male N connectors were commonly available and in fashion. Our 460MHz repeater systems were full of them so I had plenty of experience in soldering, assembling, and repairing these connectors. I don't want to remember all the 25 mile joy rides up the fire road to Santiago and Mojeska Pk just to fix a problem caused by a flakey UG-21/U coax connector. Well, to be totally accurate, I had equal problems with soldered PL-259 connectors. I fought these problems for years because I assumed there was no better way.

Meanwhile, I was also involved in an avionics shop (on the business end). They were slowly switching from soldered to crimp type connectors. The owner insisted that is was worth the effort because the number of connector failures and rework had approached zero with the crimp type. I became a believer overnight.

Many years later, I designed a few marine radios for the USCG. The specs would tolerate either solder or crimp. So, I asked which they preferred. Crimp was the answer, because they never could teach the techs how to properly solder a connector, while the crimper always does it right. All our radios used crimp connectors, even on the inside.

Roll forward more years and we have 10Base2 and 10baseT ethernet. The former uses UG-21/u N connectors. The latter uses BNC. The nice yellow coax cable with the flakey connector was a constant source of headaches. The crimp type BNC's never failed (unless abused).

I'm not sure what to suggest. With skill UG-21/u can be made to work. With luck, they can even be kept working in the field. However, I'll take crimp type any day, especially after many year of experience dealing with both.

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From 2584674964912271689
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
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NNTP-Posting-Date: Mon, 08 Dec 2008 17:08:03 -0600
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net>
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<uc1rj49tdhcnnhblc5gcf81sdgs1om6rl9@4ax.com>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Mon, 8 Dec 2008 14:18:49 -0800
Message-ID: <93j016-nsm.ln1@radagast.org>

Lines: 65
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jE1l16iJD+0wbV1L8SDeh9FUrBOcED3cTlhiR9grRpeInmYml8!
pX+Nyqk3Wf1shc89z1nQeZhFyaathZ9hTmOb6IGVRtbzl20TANmHscsSRWpT2w==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:6411
rec.radio.amateur.homebrew:1491

In article <uc1rj49tdhcnnhblc5gcf81sdgs1om6rl9@4ax.com>,
Jeff Liebermann <jeffl@cruzio.com> wrote:

>Good plan but there are problems. Most hams these daze use walkie
>talkies with perhaps 1 watt of TX RF. The typical repeater is running
>perhaps 10 to 40 watts out (after the duplexer). The walkie can hear
>the repeater almost anywhere, but when trying to talk, they drop in
>and out all the time. The mobiles, which run more power, are usually
>well matched to the repeater's tx power. I've suggested adaptive tx
>power control (to preserve battery power) on our 2 meter repeater, but
>nobody wants it.

Seems to me that would introduce another set of incompatibilities.
People out on the fringe area of the repeater's coverage would be able
to hear repeated signals from weak transmitters (e.g. HTs), but if the
repeater saw a strong input signal from a mobile (or an HT near the
site) and dropped its transmitter power, the repeater coverage area
would shrink abruptly and those users out around the edges could lose
coverage. This could re-create the "hidden node" problem in a new way!

I don't think adaptive power management can work reliably in the
absense of a signal-quality feedback from each station which is
accessing the repeater/AP.

>We had a co-channel user that was running carrier squelch. It took
>only about 7 years of constantly pounding on the trustees before they
>would install PL. They lied on their NARCC application claiming they
>had a functional PL system.

Grrr.   <Worf> "Romulans have *no* sense of honor." </Worf>

Our system (W6ASH, SPECS, at El Camino Hospital in Mountain View)
switched over to PL-tone-only years ago, and it helps in numerous
ways... the absence of noise-initiated kerchunking is a real blessing.
I've preserved the ability to switch the repeaters over to
carrier-sense-only in an emergency but really don't expect to ever
need to use this feature.

>   The experience taught me a few things,
>one of which is that hams generally make lousy RF neighbors.

Some are lousy neighbors, lazy and self-centered. Others hold
themselves and their equipment and operation to very high standards. I
think it depends very much on the individuals involved, on their
attitudes, and on their level of prior experience in supporting a
real-world user community.

>No, it's not for most home systems. There's a similar coexistence
>problem with mesh networks and municipal networks. Neither of these
>scale very well. They work ok with a small number of repeaters, but
>rapidly foul up as the usage, traffic, and number of repeaters
>increases to the point of mutual interference. Details and a rant on
>request.

I believe you!

My impression is that a limited set of mesh repeaters, and a plentiful
set of direct backhaul links on a different (non-interfering) band,
works out rather better.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From 2774193238182794266
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
newsfeed.straub-nv.de!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Mon, 08 Dec 2008 15:26:32 -0800
Organization: albasani.net
Lines: 73
Message-ID: <ghkaf9$lab$1@news.albasani.net>
References: <g87r06-b4r.ln1@radagast.org>
<0001HW.C560C363002469FFB01AD9AF@news.sf.sbcglobal.net>
<W2iE4gpFj5OJFweJ@birchnet.demon.co.uk>
<493c4266$0$9582$afc38c87@news.optusnet.com.au>
<14kpj49614u4jrjm92sg5q0pqs5qapg3rv@4ax.com> <ghinl1$shf$1@news.albasani.net>
<hnopj4h6727gdtsjet4qke6o1j6lu0gkqa@4ax.com> <ghiqnm$aq$1@news.albasani.net>
<49jqj4lha0fn08npu3kn3va9b6l83jvl0l@4ax.com> <ghjspb$6g0$1@news.albasani.net>
<ghjstg$6g0$2@news.albasani.net> <k40rj4puigbjmi3mcqj3mg6p8pjnj6hjbg@4ax.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net G7xHW6HjBagVj4eKE9/

Fc1DwkBFXwX+X40HEec1YNcvP4d3LNJWvQUXCdA61HUFssrApaJEbTRgUSJPuF/
7MCAltANVDrAY1ehDP4TpZoJQGYBbdqJFIv91UGXFj+aiv
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Mon, 8 Dec 2008 23:26:34 +0000 (UTC)
X-User-ID: qPbqIfoIdLhelE7uaxEQSpYy8ygCU1mOdxey1OxVsbw=
In-Reply-To: <k40rj4puigbjmi3mcqj3mg6p8pjnj6hjbg@4ax.com>
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 081208-0, 12/08/2008), Outbound message
Cancel-Lock: sha1:X+7FzTyq5TNM2J7CjW+qHtXGO54=
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
X-NNTP-Posting-Host: nBOfopwPXPeLWxPxHegcY38TipOrsRJsCvivU/kgEF8=
Xref: g2news1.google.com rec.radio.amateur.antenna:6413
rec.radio.amateur.homebrew:1492

Jeff Liebermann wrote:
> On Mon, 08 Dec 2008 11:35:12 -0800, John Smith
> <assemblywizard@gmail.com> wrote:
>
>> You see millions of cell phones; You see a LOT of problems?
>
> Oh yes, I certainly do see problems. They're well hidden and
> mitigated in various ways. For example, if the error rate climbs, the
> adaptive tx power control cranks up the power on both the handset and
> the cell site end. If it persists, you get disconnected. Rather than
> have the user sound like they're talking while gargling ball bearings,
> the cell site just pulls the plug. Incidentally, the tx power control
> algorithm is rather messy as it has to handle different data types, at
> different rates, all while doing its best not to drain the handset
> battery. One the cell site end, it's no better as the power
> consumption of a typical cell site is non-trivial.
>

Yes, hackers (well, you may prefer programmers/software-engineers?) do a
very nice job, they have done it with wifi too, still doing it actually,
personally--I suspect viagra! LOL

> Problems? Well:
> <http://www.roughlydrafted.com/2008/08/28/the-inside-deets-on-iphone-202-and-dropped-calls/>
> Hmmm... power control algorithm again.
>
> Todays typical cell phones run about 150mw max average power output
> (according to the FCC ID data). Some are even less. None are
> anywhere near the 600mw legal maximum. If they could, you would have
> a dead battery within about an hour. (Do the math).
>

Yeah, personally, I could handle a cell phone 2x to 3x the size, most of
it battery ... my cellphone is 300mw out (max, but variable, as needed,
as you state), I read those specs before purchasing, also. 4 hours max
talk time (like if your sitting right under the tower?) is no problem
for me, mine averages 2-3hrs, but I have a pocket charger, takes two AA
high output recharge-ables (you can chuck alkaline in if needed) and is

quick, chat while charging, so never without power (did I mention 2 week standby time?), now ask the wife, you get another answer ...

> Back to wi-fi and your setup. Sure, you'll have fairly good preformance with a high power setup. 14 times the usual power is bound to do some good. However, I suspect your neighbors are not so thrilled and will probably also be shopping for higher power hardware. It will be like an arms race, where the biggest bomb allegedly wins. Dealing with mutual interference is no fun, especially with only 3 available non-overlapping channels.
>

My son and I, once or twice a year, attend a game fest. There is more high power equip set up than you can shake a whatever at ... doom, heretic, diablo, etc. (you can tell, I like the old ones :-( ) nets all off separate APs, the wifi cards are simply uncountable--if you think thats nuts, attend a gaming convention in Nevada, frankly, I would have to state, from REAL hands-on, the problems you state just don't exist to a REAL degree ... if they/it did, they would be fixing that now (more chans, tighter packet packing/encryption, more-adaptable, spread spectrum, etc. Remember, networking has NOT EVEN reached its' infancy, yet!) Without a doubt, there are conflicts and lost packets--you just never notice them--now, if everyone there started, separately, watching a HD movie, most-likely no joy ... :-(

Besides, my neighbors are idiots (technical idiots, I admit, I like a couple of 'em), I doubt they do anything but email/surf and download an illegal movie/song now-and-then -- well, I suspect them of porn--but I am like that yanno? Suspicious.

But hey, if everyone agreed with me, I would NOT be here, and this would NOT be fun--did I mention it would be boring? <wink>

Warm regards,
JS

From -8261472821606740368
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!newsfeed.straub-nv.de!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Mon, 08 Dec 2008 15:31:50 -0800
Organization: albasani.net
Lines: 42
Message-ID: <ghkap8$lni$1@news.albasani.net>
References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net> <14kpj49614u4jrjm92sg5q0pqs5qapg3rv@4ax.com> <ghinl1$shf$1@news.albasani.net>

<hnopj4h6727gdtsjet4qke6o1j6lu0gkqa@4ax.com> <me8016-mft.ln1@radagast.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
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Ogcw/E0Kx+VUuaWDFNAoAL4U4BnGRMaILELPPWmyEMmwVX
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Mon, 8 Dec 2008 23:31:52 +0000 (UTC)
X-User-ID: 2ObDxKxYfrUuZ9RxRC1s738IzTBD8F+8ZhHrY2hMxOY=
In-Reply-To: <me8016-mft.ln1@radagast.org>
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 081208-0, 12/08/2008), Outbound message
Cancel-Lock: sha1:CK805LacvErzfxgAnrFiI73prNs=
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
X-NNTP-Posting-Host: RLfPFcOS1BOi+dv1UeOQptuSNCAjewj9VwLWgX1R92M=
Xref: g2news1.google.com rec.radio.amateur.antenna:6414
rec.radio.amateur.homebrew:1493

Dave Platt wrote:
> In article <hnopj4h6727gdtsjet4qke6o1j6lu0gkqa@4ax.com>,
>
>> The problem with this is what I call the "alligator" effect. An
>> alligator is an animal with a big mouth and small ears. Running a 1
>> watt access point will make the xmitter heard over a much wider area
>> than it can hear the responses from the clients. Unless the other end
>> of the link (i.e. client radios) are also running the same high power
>> level, the range will be limited by the clients tx power. In other
>> words, the system gain and power levels in both directions have to be
>> evenly matched to avoid turning the high power access point into what
>> I consider to be no better than a jamming transmitter.
>
> A not-uncommon scenario, I think. I've seen APs which put out a
> signal that has useful strength for blocks, and yet you have to be
> within about 100 feet of them to establish contact with a typical
> client system.
>
> This same issue is significant in other bands, as well. My area's
> ham-radio VHF/UHF repeater coordination group has a firm principle...
> a coordinated repeater's transmit coverage and receive coverage should
> be consistent. Having an ultra-high-powered transmitter simply causes
> interference well outside the repeater's practical use range.
>
> Having overly-sensitive receivers can also be a problem, albeit a
> lesser one, as it means that the repeater can be "keyed up" by remote
> stations too far away to hear the repeater properly. It's less of
> a problem, though, as most repeaters use CTCSS tone squelch these days
> and won't respond to signals intended for co-channel repeaters with a
> different CTCSS tone. I don't think this is an issue for 802.11
> access points at all.
>

All the problems you state would disappear with the correct algorithms

controlling the packets/encryption/compaction ... there is just not
enough interest to put together a team together to do it, and a
for-profit organization would go broke doing it ... and, you can't get
everyone to agree. The (A)ncient (R)etarded (R)adio (L)aggards) don't
see a need--you see, no brass is required ... :-(

Regards,
JS

```
From -3263864688730960877
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Dec 2008 17:53:31 -0600
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Mon, 08 Dec 2008 15:53:43 -0800
Organization: Committee to Maintain an Independent Xenix
Reply-To: jeffl@cruzio.com
Message-ID: <a3brj4pn0p63trndql052isbclfp6k2s52@4ax.com>
References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net>
<hnopj4h6727gdtsjet4qke6o1j6lu0gkqa@4ax.com> <me8016-mft.ln1@radagast.org>
<uc1rj49tdhcnnhblc5gcf81sdgs1om6rl9@4ax.com> <93j016-nsm.ln1@radagast.org>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 081208-0, 12/08/2008), Outbound message
X-Antivirus-Status: Clean
Lines: 146
X-Trace: sv3-
VpT3LeQnTWp1oFiajKc1tq9gK50Uha+nl8As5cZammkwg0bRjrKh75C1pFLq3W+EF9VEwpAb/iAJxnM!
D8TJMvq91DeSPXr86SgItFska7TbWF8xDgr2GuchIf7sipxLdOqOsA5udvzLkATAuo94U6/lVQqL!N4kz
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:6416
rec.radio.amateur.homebrew:1494
```

On Mon, 8 Dec 2008 14:18:49 -0800, dplatt@radagast.org (Dave Platt)
wrote:

>In article <uc1rj49tdhcnnhblc5gcf81sdgs1om6rl9@4ax.com>,
>Jeff Liebermann <jeffl@cruzio.com> wrote:

>
>>Good plan but there are problems. Most hams these daze use walkie
>>talkies with perhaps 1 watt of TX RF. The typical repeater is running
>>perhaps 10 to 40 watts out (after the duplexer). The walkie can hear
>>the repeater almost anywhere, but when trying to talk, they drop in
>>and out all the time. The mobiles, which run more power, are usually
>>well matched to the repeater's tx power. I've suggested adaptive tx
>>power control (to preserve battery power) on our 2 meter repeater, but
>>nobody wants it.
>
>Seems to me that would introduce another set of incompatibilities.
>People out on the fringe area of the repeater's coverage would be able
>to hear repeated signals from weak transmitters (e.g. HTs), but if the
>repeater saw a strong input signal from a mobile (or an HT near the
>site) and dropped its transmitter power, the repeater coverage area
>would shrink abruptly and those users out around the edges could lose
>coverage. This could re-create the "hidden node" problem in a new way!

Good point, but that's not what I had in mind. I was aware of the problem and suggested that the power control be run by a micro. The algorithm needs to be worked out, but basically, the weakest signal sets the power level. The range of power adjustment also will not be huge or large enough to have much of an effect on distant stations. Our current 60 watt amplifier might have the power output reduced to about 20 watts or 4.5dB power reduction. That's less than one S-unit and probably wouldn't be noticeable even by distant stations. However, it will make a huge difference in power consumption and battery operation run time. There are a few other economies that can be thrown in, such as having the repeater always ID in low power. Of course, there are complications, such as the mobiles and handhelds not reporting their RX signal quality, which makes deciding the repeater power output somewhat problematic when dealing with the traditional broken radios. (Same people, same radios, same problems, same club net, every time). Incidentally, this was suppose to be a minor feature of a proposed repeater voting system, which is another can of worms.

>I don't think adaptive power management can work reliably in the
>absense of a signal-quality feedback from each station which is
>accessing the repeater/AP.

Yes it can. I intentionally reduced the repeater TX power during a club net from 60 watts (before the duplexer) to about 20 watts. Nobody said anything, there were no complaints, and nobody noticed, even after I mentioned it after the close of the net. As long as I don't run the power output to near zero, it can me made to work, even if the power level is set manually with a touch tone command.

>>We had a co-channel user that was running carrier squelch. It took
>>only about 7 years of constantly pounding on the trustees before they
>>would install PL. They lied on their NARCC application claiming they
>>had a functional PL system.
>

>Grrr.   <Worf> "Romulans have *no* sense of honor." </Worf>

Actually, it was far more stupid than it appears. We had several of the club politicians pounding on the alleged trustee of the repeater, who literally didn't care, didn't communicate with the rest of the organization, broke numerous promises to take it up with the board, and so on. Complaints to NARCC went to the trustee with predictable results. We were simply talking to the wrong person. One day, we caught the right person on the air working on the repeater. He was informed of the situation, after a few emails and the usual miscommunications, the PL decoder magically appeared. As would be expected, the initial transistion was slow. First there was no-PL during their club nets. Later, it became full time. There was also some work done on placing a notch in the antenna pattern in the direction of Santa Cruz. That has worked quite nicely.

>Our system (W6ASH, SPECS, at El Camino Hospital in Mountain View)
>switched over to PL-tone-only years ago, and it helps in numerous
>ways... the absence of noise-initiated kerchunking is a real blessing.
>I've preserved the ability to switch the repeaters over to
>carrier-sense-only in an emergency but really don't expect to ever
>need to use this feature.

That alleged benefit is that no PL allows visitors and hams with antique hardware to use the repeater. We have a control code that is available to anyone that will temporarily disable the PL for a specified time period. It actually does get used by some hams who apparently plan on being buried with their ancient radios and have no intention of ever selling them.

>>   The experience taught me a few things,
>>one of which is that hams generally make lousy RF neighbors.
>
>Some are lousy neighbors, lazy and self-centered. Others hold
>themselves and their equipment and operation to very high standards. I
>think it depends very much on the individuals involved, on their
>attitudes, and on their level of prior experience in supporting a
>real-world user community.

It varies. I consider myself a good example of one of the lousy RF neighbors, so I know they exist.

>My impression is that a limited set of mesh repeaters, and a plentiful
>set of direct backhaul links on a different (non-interfering) band,
>works out rather better.

Sure, but that's not the way most municipal wireless networks are umm.... engineered. Most are single channel, store and forward repeaters. The problem is that if you're perhaps 3 nodes away from where it hits the wired internet, you will have 4 identical duplicated packets flying through the air. If everyone can see everyone else (as is the case with omni antennas on office rooftops), only one of those radios can be transmitting at a time. That means that you would be

hogging at least 3 times the shared bandwidth (airtime is shared) to
deliver one lousy packet. Add the problem of trying to create the
ultimate geographic routing algorithm, and mesh networks have a
propensity to fill the airtime with duplicates, retransmissions, and
junk. The worst of the worst are broadcasts, noteably ARP requests,
which go everywhere. I was monitoring what was coming out of Google's
Mtn View network and finding about 60% of the airtime occupied by ARP
requests. Of course, when the proponents of municipal wireless find
that there are holes in their coverage, they just add yet another
store and forward mesh repeater. Eventually, the density is high
enough for the mesh repeaters to start interfering with each other.
Since this is difficult to diagnose, the usual solution is to increase
the TX power of the mesh node. That does the opposite of what might
be expected, but until the numbers are in for availability testing,
everyone just assumes that more power is more better. It took quite a
bit of arguing to convince one mesh operator to reduce their power and
even more to demonstrate that it worked. As an example, see the data
and conclusions from the old MIT RoofNet at:
<http://pdos.csail.mit.edu/roofnet/doku.php?id=interesting>
Note the probabilies of actually delivering a packet through just one
hop. Yech.

I couldn't resist and just had to rant. But, it was worth it.

Onward to another thrilling day of doing battle with QuickBooks and my
traditional end of the year billing nightmare...

```
-- 
# Jeff Liebermann 150 Felker St #D Santa Cruz CA 95060
# 831-336-2558            jeffl@comix.santa-cruz.ca.us
# http://802.11junk.com               jeffl@cruzio.com
# http://www.LearnByDestroying.com               AE6KS
```

```
From -1425307794999393172
X-Google-Thread: fcc6e,53719fb70b4edb6c
X-Google-Thread: fc2a5,53719fb70b4edb6c
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.cse.ohio-state.edu!
usenet01.sei.cmu.edu!elk.ncren.net!newsswitch.lcs.mit.edu!news.uchicago.edu!nntp-
server.caltech.edu!news.jpl.nasa.gov!not-for-mail
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Mon, 08 Dec 2008 17:13:48 -0800
Organization: JPL Information Services, InterNetNews
Lines: 24
Message-ID: <ghkgob$k0s$1@news.jpl.nasa.gov>
References: <0001HW.C5601DD000F264B8B01AD9AF@news.sf.sbcglobal.net>
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<hnopj4h6727gdtsjet4qke6o1j6lu0gkqa@4ax.com> <me8016-mft.ln1@radagast.org>
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<a3brj4pn0p63trndql052isbclfp6k2s52@4ax.com>
NNTP-Posting-Host: seraphic.jpl.nasa.gov
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: news.jpl.nasa.gov 1228785227 20508 137.79.6.96 (9 Dec 2008 01:13:47 GMT)
X-Complaints-To: newsmaster@jpl.nasa.gov
NNTP-Posting-Date: Tue, 9 Dec 2008 01:13:47 +0000 (UTC)
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
In-Reply-To: <a3brj4pn0p63trndql052isbclfp6k2s52@4ax.com>
X-Received-Date: Mon, 08 Dec 2008 20:01:02 CST (news.uchicago.edu)
Xref: g2news1.google.com rec.radio.amateur.antenna:6418 rec.radio.amateur.homebrew:1495

Jeff Liebermann wrote:

> Good point, but that's not what I had in mind. I was aware of the problem and suggested that the power control be run by a micro. The algorithm needs to be worked out, but basically, the weakest signal sets the power level. The range of power adjustment also will not be huge or large enough to have much of an effect on distant stations. Our current 60 watt amplifier might have the power output reduced to about 20 watts or 4.5dB power reduction. That's less than one S-unit and probably wouldn't be noticeable even by distant stations. However, it will make a huge difference in power consumption and battery operation run time.

Would it? A lot of amplifiers don't change their power consumption all that much, especially if they're designed for saturated operation (i.e. if you reduce the input drive, they either distort, or drop into linear mode and dissipation goes up).

if you have an amplifier designed for variable power output, then what you say might be a good idea.

From -1980868637167736783
X-Google-Thread: fcc6e,8595798a6a30ef54
X-Google-Thread: fc2a5,8595798a6a30ef54
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Mon, 08 Dec 2008 22:12:44 -0600
From: "Bryan" <bryan.swadenerNOSPAM@comcast.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew

References: <0001HW.C561768E0029D229B01AD9AF@news.sf.sbcglobal.net>
<ofqdncHyWvtIo6HUnZ2dnUVZ_hydnZ2d@web-ster.com> <3e69dca0-879f-4d57-b413-5cfea58aee79@x8g2000yqk.googlegroups.com> <08156e7a-1ba3-40ea-bf98-ed89a51b1f63@x8g2000yqk.googlegroups.com>
Subject: Re: "Dual crimp" coax connectors?
Date: Mon, 8 Dec 2008 20:12:47 -0800
X-Priority: 3
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X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
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Message-ID: <r-adnbrpUp6hbaDUnZ2dnUVZ_gadnZ2d@giganews.com>
Lines: 24
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X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:6431 rec.radio.amateur.homebrew:1496

raypsi wrote:
> Hey OM
> What size gun did you has a 240watt?
[snip]
> 73 OM
> n8zu

Weller manufactures the following of that type of solder guns:

8200 = 140/100W
D550 = 260/200W
D650 = 300/200W

See http://www.cooperhandtools.com/brands/weller/index.cfm

I have an 8200. They make plain copper and iron-clad copper tips (the iron-clad tips last longer). The beauty is that, when your only tip goes open and the local hardware store is closed and you HAVE TO solder something, 12ga solid copper wire can be formed into a tip. :)

vy 73,
Bryan WA7PRC

From -8710381804660221723

X-Google-Thread: fcc6e,8595798a6a30ef54
X-Google-Thread: fc2a5,8595798a6a30ef54
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
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bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews4.bellsouth.net.POSTED!7eee1d3b!not-for-mail
From: "Ed Cregger" <ecregger@bellsouff.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <0001HW.C561768E0029D229B01AD9AF@news.sf.sbcglobal.net>
<ofqdncHyWvtIo6HUnZ2dnUVZ_hydnZ2d@web-ster.com> <3e69dca0-879f-4d57-
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Subject: Re: "Dual crimp" coax connectors?
Lines: 38
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X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <WXm%k.5708$mw2.3205@bignews4.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
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X-Trace:
npbhgpngjbkmjfegdbdpiflmbcekedmfhojhikkbagflhcboflkngckdjfbbgpkcpohemacbphcocjhaif
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NNTP-Posting-Date: Tue, 09 Dec 2008 00:00:38 EST
Organization: BellSouth Internet Group
Date: Tue, 9 Dec 2008 00:02:18 -0500
Xref: g2news1.google.com rec.radio.amateur.antenna:6433
rec.radio.amateur.homebrew:1497

I still have a dual power (500/250) model Weller gun that a friend bought while we were in the Air Force. He took it out of the package and dropped it on the floor accidentially. A tiny piece of non functional plastic busted off the top, so he threw it in the trash can (he was having a bad day). I pulled it out of the trash, plugged it in and showed him that it still worked fine. I then offered it back to him. He wanted no parts of it. I'm still using it to this day. That 500 watt heating range actually comes in handy now and then.

Ed Cregger

"Bryan" <bryan.swadenerNOSPAM@comcast.net> wrote in message
news:r-adnbrpUp6hbaDUnZ2dnUVZ_gadnZ2d@giganews.com...
> raypsi wrote:
>> Hey OM
>> What size gun did you has a 240watt?
> [snip]
>> 73 OM
>> n8zu
>

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> D650 = 300/200W
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> iron-clad tips last longer).  The beauty is that, when your only tip goes
> open and the local hardware store is closed and you HAVE TO solder
> something, 12ga solid copper wire can be formed into a tip. :)
>
> vy 73,
> Bryan WA7PRC
>
```

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From -7681174784663981752
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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newshosting.com!69.16.185.16.MISMATCH!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe08.iad.POSTED!7564ea0f!not-for-mail
From: "Dr. Barry L. Ornitz" <NoSPAM@unknown.org>
Newsgroups: rec.radio.amateur.homebrew
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<6pqnq5F9fetmU1@mid.individual.net> <gh9kfq$ueh$1@news.albasani.net>
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Lines: 928
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NNTP-Posting-Date: Tue, 09 Dec 2008 07:01:15 UTC
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X-Original-Lines: 1
Xref: g2news1.google.com rec.radio.amateur.homebrew:1499

This is a multi-part message in MIME format.

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Content-Type: text/plain;
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Content-Transfer-Encoding: quoted-printable

  "raypsi" <RBorowiak@gmail.com> wrote in message =
news:4cd6853b-e2a0-4efc-a938-a481af030f3c@v15g2000yqn.googlegroups.com...=

  On Dec 4, 9:26 pm, "NoSPAM" <unkn...@nospam.org> wrote:
  > "Stev eH"
  > =
<StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjz=
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vblyrylxybvryvbfbllyxd...@tfif.co.uk>
  > wrote in messagenews:gh9kfq$ueh$1@news.albasani.net...
  >
  > > My first amp had 3 PL519s with a lethal power supply using a =
voltage
  > > tripp{l}er direct off the 240V mains, heaters were direct off =
mains via a
  > > 1n5406 diode. It's still up in the parents loft somewhere, must =
dig it
  > > out over the holidays and give it a try....
  >
  > > Steve H
  >
  > Do you realize that the RMS value of half-wave rectified AC is not =
one half
  > of the applied RMS voltage but rather 0.707 of the applied RMS =
voltage. So
  > your three 40 volt filament PL519s actually saw about 56 volts RMS =
across
  > each filament.

  Hey OM
  I beg to differ. As any casual observer can see that peek is 330V and
  the average would be 0.363 of the peak so that's 40 volts in my
  calculator all day long, for a 3 tube string.

  Lets take a square wave, the average would be 0.5 of peek, far lower
  than 0.707 you are used to using. Even if it was full wave 120 cycle
  dc, the average would only be 0.636 still lower than 0.707.

  I tell you what. Take a diode and rectify the mains with it and
  measure the DC voltage with a DVM, VTVM or a VOM and 0.363 of peak is
  what you will get for a DC voltage on that meter. Or do the real
  integral of the dv/dt and see for yourself.
```

The TV repair business I was in manufacturers put 50volt peak on a CRT 6.3volt filament, the average voltage was 6.3 volts. Lets see you RMS that one.

73 OM

n8zu

Ray,

=20

You obviously do not understand the meaning of RMS as you are confusing = the average voltage with the RMS voltage. In a resistive circuit, the = RMS voltage of any waveform will produce identical _heating_ as a DC = voltage of the same value. This is an important point which is often = overlooked, and it is why measuring the RMS value of a waveform is = difficult. Let's start with some numbers but avoiding the use of = integration...

=20

Assume we have an AC voltage described by:

=20

Vac =3D 339.41 sin[(2*Pi*f)t] where (2*Pi*f) is 376.99 for 60 Hz or = 314.159 for 50 Hz power

Vac =3D 339.41 sin(376.99*t)

=20

Since this is a symmetrical waveform, the _average_ value is 0 while the = _peak_ positive voltage is 339.41 volts.

=20

Now let us apply this voltage to a 1000 ohm resistor. Using Ohm's

Law, we can calculate the current, I=3DV/R.

=20

Iac =3D 339.41 sin(376.99*t) volts/1000 ohms

Iac =3D 0.33941 sin(376.99*t) amps

=20

Again this a symmetrical waveform with an average of 0, and a peak = positive current of 0.33941 amps.

=20

The instantaneous power dissipated by this resistor can be calculated by =
multiplying the voltage by the current.

=20

Pac =3D 339.41 sin(376.99*t) * 0.33941 sin(376.99*t) watts

Pac =3D 115.20 [sin(376.99*t) * sin(376.99*t)] watts

=20

Using a trigonometric identity =
(http://en.wikipedia.org/wiki/List_of_trigonometric_identities) this can =
be rearranged to:

=20

Pac =3D 115.20 * [1 - cos(2*376.99*t)]/2 watts

=20

It is important to understand this function. The value of this function =
goes from zero to a peak of 115.20 watts at twice the frequency of the =
original waveform. The average value is no longer zero but is now 57.6 =
watts. =20

=20

Now let us go back to using RMS values. Since the waveform is =
sinusoidal, we can use some common formulas.

=20

Vrms =3D 0.707107 * Vpeak =3D 0.707107 * 339.41 =3D 240 volts

Irms =3D 240/1000 =3D 0.240 amps

Prms =3D 240 * 0.24 =3D 57.6 watts=20

=20

This is exactly the same as the average of the power calculated above. =
If we had applied 240 volts DC to the 1000 ohm resistor, the power would =
again be 57.6 watts.

=20

Now let us half-wave rectify the original AC waveform. The peak voltage =
will be the same as before, 339.41 volts. But the waveform is no longer =
symmetrical about zero. The average value is:

=20

Vavg =3D Vpeak/Pi =3D 339.41/3.14159 =3D 108.038 volts

=20

The RMS value is:

=20

Vrms =3D Vpeak/2 =3D 169.706 volts

=20

Applying this to the same 1000 ohm resistor gives a current of

=20

Irms =3D Vrms/1000 =3D 0.169706 amps

=20

The RMS power dissipated by the resistor is=20

=20

Prms =3D Vrms * Irms =3D 28.8 watts

=20

Note that this exactly _twice_ the power if the waveform had not been =
rectified.

Now let us do the same calculations for a symmetrical square wave.

=20

Vpeak =3D 339.41 volts

=20

Vavg =3D 0 volts

=20

Vrms =3D 339.41 volts

=20

Ipeak =3D 0.33941 amps

=20

Iavg =3D 0 amps

=20

Irms =3D 0.33941 amps

=20

Prms =3D 115.2 watts

=20

If the square wave is half wave rectified,

=20

Vpeak =3D 339.41 volts

=20

Vavg =3D 169.71 volts

=20

Vrms =3D 169.71 volts

=20

Ipeak =3D 0.33941 amps

=20

Iavg =3D 0.16971 amps

=20

Irms =3D 0.16971 amps

=20

Prms =3D 28.80 watts

=20

Note that this is exactly the same as with the sinusoidal waveform. =
This is exactly the point, half wave rectification produces =
_one_half_of_the_power_ that would be produced by the original =
sinusoidal AC waveform. It does not produce half of the original peak =
voltage. It produces SQRT(2)/2 times the original RMS voltage.

=20

As for your numbers, Ray, you need a refresher course in mathematics. =
As for DVM, VTVM, or VOM readings, you will have to specify the =
filtering of the waveform before I can tell you the value. In the case =
of the CRT filament

(and I really think you might mean the HV rectifier filament) power is =
supplied by a waveform having a high peak value but an RMS value that is =
low. Again you would need to specify the waveform exactly.

=20

There is a very simple way to prove that my calculations are right. Get =
two incandescent light bulbs of the same type and wattage. Wire a diode =
of adequate voltage and current rating in series with one bulb and =
connect to the wall outlet. Use a variac to feed the second bulb. With =
the bulbs side by side, adjust the variac until both bulbs are the same =
brightness. Measure the variac output voltage. You will find that it =
is not 50% of the line voltage but instead very close to 70.7% of the =
line voltage.

=20

In fact, the most accurate RMS voltmeters operate in a similar fashion. =
They let the unknown voltage heat a resistor. Then they use an =
adjustable DC voltage to heat an identical resistor. When both =
resistors are at the same temperature, the DC voltage is the RMS value =
of the unknown voltage. Consult the Linear Technology LT1088

datasheet for a description of one method of doing this. =
http://www.datasheetcatalog.org/datasheet/lineartechnology/lt1088.pdf

=20

The same company also offers several other RMS-to-DC converters that =
operate on a delta-sigma computation technique.

http://www.linear.com/pc/downloadDocument.do?navId=3DH0,C1,C1154,C1086,D4=
486

=20

A general discussion of RMS measurements may be found at:

http://www.edn.com/contents/images/46857.pdf.

=20

This last reference shows typical errors for different types of RMS =
measuring meters. I strongly suggest to anyone still confused to read =
it. And I really hope Phil tries the experiment I suggested.

=20

```
        73, Barry L. Ornitz, PhD   WA4VZQ

=20

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...@tfif.co.uk</A>&gt;<BR>&gt;=20
  wrote in messagenews:gh9kfq$ueh$1@news.albasani.net...<BR>&gt;<BR>&gt; =
&gt; My=20
  first amp had 3 PL519s with a lethal power supply using a =
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  tripp{l}er direct off the 240V mains, heaters were direct off mains =
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  that peek is 330V and<BR>the average would be 0.363 of the peak so =
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diode and=20
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  filament, the average voltage was 6.3 volts. Lets see you RMS<BR>that=20
  one.<BR><BR>73 OM<BR><BR>n8zu</BLOCKQUOTE><BR>
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<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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178.65pt"><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">You obviously do not understand the =
meaning=20
of RMS as you are confusing the average voltage with the RMS =
voltage.&nbsp; In a=20
resistive circuit, the RMS voltage of any waveform will produce =
identical=20
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is difficult.&nbsp; Let=92s start with some numbers but avoiding the use =
of=20
```

```
integration...</SPAN><o:p></o:p></P>
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<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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style=3D"FONT-FAMILY: 'Courier New'">Assume we have an AC voltage =
described=20
by:</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Vac =3D 339.41 sin[(2*Pi*f)t]&nbsp; =
where=20
(2*Pi*f) is 376.99 for 60 Hz or 314.159 for 50 Hz =
power</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Vac =3D 339.41=20
sin(376.99*t)</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Since this is a symmetrical =
waveform, the=20
_average_ value is 0 while the _peak_ positive voltage is 339.41=20
volts.</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Now let us apply this voltage to a =
1000 ohm=20
resistor.&nbsp; Using Ohm's</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Law, we can calculate the current,=20
I=3DV/R.</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Iac =3D 339.41 sin(376.99*t) =
volts/1000=20
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ohms</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Iac =3D 0.33941 sin(376.99*t)=20
amps</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Again this a symmetrical waveform =
with an=20
average of 0, and a peak positive current of 0.33941 =
amps.</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">The instantaneous power dissipated =
by this=20
resistor can be calculated by multiplying the voltage by the=20
current.</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Pac =3D 339.41 sin(376.99*t) * =
0.33941=20
sin(376.99*t) watts</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Pac =3D 115.20 [sin(376.99*t) * =
sin(376.99*t)]=20
watts</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Using a trigonometric identity (<A=20
title=3D"http://en.wikipedia.org/wiki/List_of_trigonometric_identities&#1=
0;CTRL + Click to follow link"=20
href=3D"http://en.wikipedia.org/wiki/List_of_trigonometric_identities"><F=
ONT=20
color=3D#800040>http://en.wikipedia.org/wiki/List_of_trigonometric_identi=
ties</FONT></A>)=20
this can be rearranged to:</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Pac =3D 115.20 * [1 - =
cos(2*376.99*t)]/2=20
watts</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">It is important to understand this=20
function.&nbsp; The value of this function goes from zero to a peak of =
115.20=20
watts at twice the frequency of the original waveform.&nbsp; The average =
value=20
is no longer zero but is now 57.6 watts.&nbsp; </SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Now let us go back to using RMS =
values.&nbsp;=20
Since the waveform is sinusoidal, we can use some common=20
formulas.</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Vrms =3D 0.707107 * Vpeak =3D =
0.707107 * 339.41 =3D=20
240 volts</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Irms =3D 240/1000 =3D 0.240=20
amps</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Prms =3D 240 * 0.24 =3D 57.6=20
watts&nbsp;</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">This&nbsp;is exactly the same as =
the average=20
of the power calculated above.&nbsp; If we had applied 240 volts DC to =
the 1000=20
ohm resistor, the power would again be 57.6 watts.</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Now let us half-wave rectify the =
original AC=20
waveform.&nbsp; The peak voltage will be the same as before, 339.41 =
volts.&nbsp;=20
But the waveform is no longer symmetrical about zero.&nbsp; The average =
value=20
is:</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Vavg =3D Vpeak/Pi =3D =
339.41/3.14159 =3D 108.038=20
volts</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">The RMS value =
is:</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Vrms =3D Vpeak/2 =3D&nbsp;169.706=20
volts</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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style=3D"FONT-FAMILY: 'Courier New'">Applying this to the same 1000 ohm =
resistor=20
gives a current of</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
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face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Irms =3D Vrms/1000 =3D 0.169706=20
amps</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">The RMS power dissipated by the =
resistor is=20
</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Prms =3D Vrms * Irms =3D&nbsp;28.8=20
watts</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Note that this exactly _twice_ the =
power if=20
the waveform had not been rectified.</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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style=3D"FONT-FAMILY: 'Courier New'">Now let us do the same calculations =
for a=20
symmetrical square wave.</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Vpeak =3D 339.41 =
volts</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
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face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Vavg =3D 0 =
volts</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Vrms =3D 339.41 =
volts</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
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face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Ipeak =3D 0.33941 =
amps</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
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face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Iavg =3D 0 =
amps</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Irms =3D 0.33941 =
amps</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Prms =3D 115.2 =
watts</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">If the square wave is half wave=20
rectified,</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Vpeak =3D 339.41 =
volts</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
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<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Vavg =3D 169.71 =
volts</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
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face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Vrms =3D 169.71 =
volts</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
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178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Ipeak =3D 0.33941 =
amps</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
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178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Iavg =3D 0.16971 =
amps</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
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face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Irms =3D 0.16971 =
amps</SPAN><o:p></o:p></P>
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178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;&nbsp;&nbsp;&nbsp;</FONT><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Prms =3D 28.80 =
watts</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">Note that this is exactly the same =
as with=20
the sinusoidal waveform.&nbsp; This is exactly the point, half wave=20
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rectification produces _one_half_of_the_power_ that would be produced by =
the=20
original sinusoidal AC waveform.&nbsp; It does not produce half of the =
original=20
peak voltage.&nbsp; It produces SQRT(2)/2 times the original RMS=20
voltage.</SPAN><o:p></o:p></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><FONT=20
face=3D"Times New Roman">&nbsp;<o:p></o:p></FONT></P>
<P class=3DMsoNormal style=3D"MARGIN: 0in 0in 0pt; tab-stops: =
178.65pt"><SPAN=20
style=3D"FONT-FAMILY: 'Courier New'">As for your numbers, Ray, you need =
a=20
refresher course in mathematics.&nbsp; As for DVM, VTVM, or VOM =
readings, you=20
will have to specify the filtering of the waveform before I can tell you =
the=20
value.&nbsp; In the case of the CRT filament</SPAN><o:p></o:p></P>
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the HV=20
rectifier filament) power is supplied by a waveform having a high peak =
value but=20
an RMS value that is low.&nbsp; Again you would need to specify the =
waveform=20
exactly.</SPAN><o:p></o:p></P>
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that my=20
calculations are right.&nbsp; Get two incandescent light bulbs of the =
same type=20
and wattage.&nbsp; Wire a diode of adequate voltage and current rating =
in series=20
with one bulb and connect to the wall outlet.&nbsp; Use a variac to feed =
the=20
second bulb.&nbsp; With the bulbs side by side, adjust the variac until =
both=20
bulbs are the same brightness.&nbsp; Measure the variac output =
voltage.&nbsp;=20
You will find that it is not 50% of the line voltage but instead very =
close to=20
70.7% of the line voltage.</SPAN><o:p></o:p></P>
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operate in a similar fashion.&nbsp; They let the unknown voltage heat a=20
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voltage=20
is the RMS value of the unknown voltage.&nbsp; Consult the Linear =
Technology=20
LT1088</SPAN><o:p></o:p></P>
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several other=20
RMS-to-DC converters that operate on a delta-sigma computation=20
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style=3D"FONT-FAMILY: 'Courier New'">A general discussion of RMS =
measurements may=20
be found at:</SPAN><o:p></o:p></P>
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PhD&nbsp;&nbsp;=20
WA4VZQ</SPAN><o:p></o:p></P>
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vblyrylxybvryvbfbllyxd...@tfif.co.uk>
  > wrote in messagenews:gh9kfq$ueh$1@news.albasani.net...
  >
  > > My first amp had 3 PL519s with a lethal power supply using a =
voltage
  > > tripp{l}er direct off the 240V mains, heaters were direct off =
mains via a
  > > 1n5406 diode. It's still up in the parents loft somewhere, must =
dig it
  > > out over the holidays and give it a try....
  >
  > > Steve H
  >
  > Do you realize that the RMS value of half-wave rectified AC is not =
one half
  > of the applied RMS voltage but rather 0.707 of the applied RMS =
voltage. So
  > your three 40 volt filament PL519s actually saw about 56 volts RMS =
across
  > each filament.

  Hey OM
  I beg to differ. As any casual observer can see that peek is 330V and
  the average would be 0.363 of the peak so that's 40 volts in my
  calculator all day long, for a 3 tube string.
```

Lets take a square wave, the average would be 0.5 of peek, far lower
than 0.707 you are used to using. Even if it was full wave 120 cycle
dc, the average would only be 0.636 still lower than 0.707.

I tell you what. Take a diode and rectify the mains with it and
measure the DC voltage with a DVM, VTVM or a VOM and 0.363 of peak is
what you will get for a DC voltage on that meter. Or do the real
integral of the dv/dt and see for yourself.

The TV repair business I was in manufacturers put 50volt peak on a CRT
6.3volt filament, the average voltage was 6.3 volts. Lets see you RMS
that one.

73 OM

n8zu
Ray,

You obviously do not understand the meaning of RMS as you are confusing =
the average voltage with the RMS voltage. In a resistive circuit, the =
RMS voltage of any waveform will produce identical _heating_ as a DC =
voltage of the same value. This is an important point which is often =
overlooked, and it is why measuring the RMS value of a waveform is =
difficult. Let's start with some numbers but avoiding the use of =
integration...

Assume we have an AC voltage described by:

Vac =3D 339.41 sin[(2*Pi*f)t] where (2*Pi*f) is 376.99 for 60 Hz or =
314.159 for 50 Hz power
Vac =3D 339.41 sin(376.99*t)

Since this is a symmetrical waveform, the _average_ value is 0 while the =
peak positive voltage is 339.41 volts.

Now let us apply this voltage to a 1000 ohm resistor. Using Ohm's
Law, we can calculate the current, I=3DV/R.

Iac =3D 339.41 sin(376.99*t) volts/1000 ohms
Iac =3D 0.33941 sin(376.99*t) amps

Again this a symmetrical waveform with an average of 0, and a peak =
positive current of 0.33941 amps.

The instantaneous power dissipated by this resistor can be calculated by =
multiplying the voltage by the current.

Pac =3D 339.41 sin(376.99*t) * 0.33941 sin(376.99*t) watts
Pac =3D 115.20 [sin(376.99*t) * sin(376.99*t)] watts

Using a trigonometric identity =
(http://en.wikipedia.org/wiki/List_of_trigonometric_identities) this can =

be rearranged to:

    Pac =3D 115.20 * [1 - cos(2*376.99*t)]/2 watts

It is important to understand this function. The value of this function = goes from zero to a peak of 115.20 watts at twice the frequency of the = original waveform. The average value is no longer zero but is now 57.6 = watts. =20

Now let us go back to using RMS values. Since the waveform is = sinusoidal, we can use some common formulas.

    Vrms =3D 0.707107 * Vpeak =3D 0.707107 * 339.41 =3D 240 volts
    Irms =3D 240/1000 =3D 0.240 amps
    Prms =3D 240 * 0.24 =3D 57.6 watts=20

This is exactly the same as the average of the power calculated above. = If we had applied 240 volts DC to the 1000 ohm resistor, the power would = again be 57.6 watts.

Now let us half-wave rectify the original AC waveform. The peak voltage = will be the same as before, 339.41 volts. But the waveform is no longer = symmetrical about zero. The average value is:

    Vavg =3D Vpeak/Pi =3D 339.41/3.14159 =3D 108.038 volts

The RMS value is:

    Vrms =3D Vpeak/2 =3D 169.706 volts

Applying this to the same 1000 ohm resistor gives a current of

    Irms =3D Vrms/1000 =3D 0.169706 amps

The RMS power dissipated by the resistor is=20

    Prms =3D Vrms * Irms =3D 28.8 watts

Note that this exactly _twice_ the power if the waveform had not been = rectified.
Now let us do the same calculations for a symmetrical square wave.

    Vpeak =3D 339.41 volts

    Vavg =3D 0 volts

    Vrms =3D 339.41 volts

    Ipeak =3D 0.33941 amps

    Iavg =3D 0 amps

    Irms =3D 0.33941 amps

    Prms =3D 115.2 watts

If the square wave is half wave rectified,

    Vpeak =3D 339.41 volts

    Vavg =3D 169.71 volts

    Vrms =3D 169.71 volts

    Ipeak =3D 0.33941 amps

    Iavg =3D 0.16971 amps

    Irms =3D 0.16971 amps

    Prms =3D 28.80 watts

Note that this is exactly the same as with the sinusoidal waveform. =
This is exactly the point, half wave rectification produces =
_one_half_of_the_power_ that would be produced by the original =
sinusoidal AC waveform. It does not produce half of the original peak =
voltage. It produces SQRT(2)/2 times the original RMS voltage.

As for your numbers, Ray, you need a refresher course in mathematics. =
As for DVM, VTVM, or VOM readings, you will have to specify the =
filtering of the waveform before I can tell you the value. In the case =
of the CRT filament
(and I really think you might mean the HV rectifier filament) power is =
supplied by a waveform having a high peak value but an RMS value that is =
low. Again you would need to specify the waveform exactly.

There is a very simple way to prove that my calculations are right. Get =
two incandescent light bulbs of the same type and wattage. Wire a diode =
of adequate voltage and current rating in series with one bulb and =
connect to the wall outlet. Use a variac to feed the second bulb. With =
the bulbs side by side, adjust the variac until both bulbs are the same =
brightness. Measure the variac output voltage. You will find that it =
is not 50% of the line voltage but instead very close to 70.7% of the =
line voltage.

In fact, the most accurate RMS voltmeters operate in a similar fashion. =
They let the unknown voltage heat a resistor. Then they use an =
adjustable DC voltage to heat an identical resistor. When both =
resistors are at the same temperature, the DC voltage is the RMS value =
of the unknown voltage. Consult the Linear Technology LT1088
datasheet for a description of one method of doing this. =
http://www.datasheetcatalog.org/datasheet/lineartechnology/lt1088.pdf

The same company also offers several other RMS-to-DC converters that =
operate on a delta-sigma computation technique.
http://www.linear.com/pc/downloadDocument.do?navId=3DH0,C1,C1154,C1086,D4=

A general discussion of RMS measurements may be found at:
http://www.edn.com/contents/images/46857.pdf.

This last reference shows typical errors for different types of RMS =
measuring meters. I strongly suggest to anyone still confused to read =
it. And I really hope Phil tries the experiment I suggested.

```
        73, Barry L. Ornitz, PhD   WA4VZQ
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  wrote in messagenews:gh9kfq$ueh$1@news.albasani.net...<BR>&gt;<BR>&gt; =
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  Or do the real<BR>integral of the dv/dt and see for =
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  filament, the average voltage was 6.3 volts. Lets see you RMS<BR>that=20
  one.<BR><BR>73 OM<BR><BR>n8zu</BLOCKQUOTE>
<DIV><FONT face=3D"Courier New">Ray,</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">You obviously do not understand the =
meaning of RMS=20
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a=20
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<DIV><FONT face=3D"Courier New">Assume we have an AC voltage described=20
by:</FONT></DIV>
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<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Vac =3D 339.41=20
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<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
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current.</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Pac =3D 339.41 =
sin(376.99*t)=20
* 0.33941 sin(376.99*t) watts</FONT></DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Pac =3D 115.20=20
[sin(376.99*t) * sin(376.99*t)] watts</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">Using a trigonometric identity (<A=20
title=3D"http://en.wikipedia.org/wiki/List_of_trigonometric_identities&#1=
0;CTRL + Click to follow link"=20
href=3D"http://en.wikipedia.org/wiki/List_of_trigonometric_identities">ht=
tp://en.wikipedia.org/wiki/List_of_trigonometric_identities</A>)=20
this can be rearranged to:</FONT></DIV>
```

```
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Pac =3D 115.20 * =
[1 -=20
cos(2*376.99*t)]/2 watts</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">It is important to understand this =
function.&nbsp;=20
The value of this function goes from zero to a peak of 115.20 watts at =
twice the=20
frequency of the original waveform.&nbsp; The average value is no longer =
zero=20
but is now 57.6 watts.&nbsp; </FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">Now let us go back to using RMS =
values.&nbsp;=20
Since the waveform is sinusoidal, we can use some common =
formulas.</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Vrms =3D =
0.707107 * Vpeak =3D=20
0.707107 * 339.41 =3D 240 volts</FONT></DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Irms =3D =
240/1000 =3D 0.240=20
amps</FONT></DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Prms =3D 240 * =
0.24 =3D 57.6=20
watts&nbsp;</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">This&nbsp;is exactly the same as the =
average of=20
the power calculated above.&nbsp; If we had applied 240 volts DC to the =
1000 ohm=20
resistor, </FONT><FONT face=3D"Courier New">the power would again be =
57.6=20
watts.</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">Now let us half-wave rectify the =
original AC=20
waveform.&nbsp; The peak voltage will be the same as before, 339.41 =
volts.&nbsp;=20
But the waveform is no longer symmetrical about zero.&nbsp; The average =
value=20
is:</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Vavg =3D =
Vpeak/Pi =3D=20
339.41/3.14159 =3D 108.038 volts</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">The RMS value is:</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Vrms =3D Vpeak/2 =

=3D&nbsp;169.706 volts</FONT></DIV>
```

```
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">Applying this to the same 1000 ohm =
resistor gives=20
a current of</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Irms =3D =
Vrms/1000 =3D=20
0.169706 amps</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">The RMS power dissipated by the resistor =
is=20
</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Prms =3D Vrms * =
Irms=20
=3D&nbsp;28.8 watts</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">Note that this exactly _twice_ the power =
if the=20
waveform had not been rectified.</FONT></DIV>
<DIV><FONT face=3D"Courier New">Now let us do the same calculations for =
a=20
symmetrical square wave.</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Vpeak =3D 339.41 =

volts</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Vavg =3D 0=20
volts</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Vrms =3D 339.41=20
volts</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Ipeak =3D =
0.33941=20
amps</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Iavg =3D 0 =
amps</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Irms =3D 0.33941 =

amps</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Prms =3D 115.2=20
watts</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">If the square wave is half wave=20
rectified,</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Vpeak =3D 339.41 =
volts</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Vavg =3D 169.71=20
volts</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Vrms =3D 169.71=20
volts</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Ipeak =3D =
0.33941=20
amps</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Iavg =3D 0.16971 =

amps</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Irms =3D 0.16971 =

amps</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;<FONT face=3D"Courier New">Prms =3D 28.80=20
watts</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">Note that this is exactly the same as =
with the=20
sinusoidal waveform.&nbsp; This is exactly the point, half wave =
rectification=20
produces _one_half_of_the_power_ that would be produced by the original=20
sinusoidal AC waveform.&nbsp; It does not produce half of the original =
peak=20
voltage.&nbsp; It produces SQRT(2)/2 times the original RMS=20
voltage.</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">As for your numbers, Ray, you need a =
refresher=20
course in mathematics.&nbsp; As for DVM, VTVM, or VOM readings, you will =
have to=20
specify the filtering of the waveform before I can tell you the =
value.&nbsp; In=20
the case of the CRT filament</FONT></DIV>
<DIV><FONT face=3D"Courier New">(and I really think you might mean the =
HV=20
rectifier filament) power is supplied by a waveform having a high peak =
value but=20
an RMS value that is low.&nbsp; Again you would need to specify the =
waveform=20
exactly.</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">There is a very simple way to prove that =
my=20
calculations are right.&nbsp; Get two incandescent light bulbs of the =
same type=20
and wattage.&nbsp; Wire a diode of adequate voltage and current rating =
in series=20
with one bulb and connect to the wall outlet.&nbsp; Use a variac to feed =
the=20
second bulb.&nbsp; With the bulbs side by side, adjust the variac until =
both=20
bulbs are the same brightness.&nbsp; </FONT><FONT face=3D"Courier =
New">Measure the=20
variac output voltage.&nbsp; You will find that it is not 50% of the =
line=20
voltage but instead very close to 70.7% of the line =
voltage.</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">In fact, the most accurate RMS =
voltmeters operate=20
in a similar fashion.&nbsp; They let the unknown voltage heat a =
resistor.&nbsp;=20
Then they use an adjustable&nbsp;DC voltage to heat an identical =
resistor.&nbsp;=20
When both resistors are at the same temperature, the DC voltage is the =
RMS value=20
of the unknown voltage.&nbsp; Consult the Linear Technology =
LT1088</FONT></DIV>
<DIV><FONT face=3D"Courier New">datasheet for a description of one =
method of doing=20
this. <A=20
title=3D"http://www.datasheetcatalog.org/datasheet/lineartechnology/lt108=
8.pdf&#10;CTRL + Click to follow link"=20
href=3D"http://www.datasheetcatalog.org/datasheet/lineartechnology/lt1088=
.pdf">http://www.datasheetcatalog.org/datasheet/lineartechnology/lt1088.p=
df</A></FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">The same company also offers several =
other=20
RMS-to-DC converters that operate on a delta-sigma computation=20
technique.</FONT></DIV>
<DIV><FONT face=3D"Courier New"><A=20
title=3D"http://www.linear.com/pc/downloadDocument.do?navId=3DH0,C1,C1154=
,C1086,D4486&#10;CTRL + Click to follow link"=20
href=3D"http://www.linear.com/pc/downloadDocument.do?navId=3DH0,C1,C1154,=
C1086,D4486">http://www.linear.com/pc/downloadDocument.do?navId=3DH0,C1,C=
1154,C1086,D4486</A></FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">A general discussion of RMS measurements =
may be=20
found at:</FONT></DIV>
<DIV><FONT face=3D"Courier New"><A=20
title=3D"http://www.edn.com/contents/images/46857.pdf&#10;CTRL + Click =
to follow link"=20
href=3D"http://www.edn.com/contents/images/46857.pdf">http://www.edn.com/=
contents/images/46857.pdf</A>.</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">This last reference shows typical errors =
for=20
```

```
different types of RMS measuring meters.&nbsp; I strongly suggest to =
anyone=20
still confused to read it.&nbsp; And I really hope Phil tries the =
experiment I=20
suggested.</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<FONT=20
face=3D"Courier New">73, Barry L. Ornitz, PhD&nbsp;&nbsp;=20
WA4VZQ</FONT></DIV></BODY></HTML>

------=_NextPart_000_0012_01C959A0.E83C11A0--




From -2907096160085141493
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X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!news-
xxxfer.readnews.com!news-out.readnews.com!postnews3.readnews.com!
nr5c.newsreader.com.POSTED!not-for-mail
Subject: Re: WiFi antenna recommendations?
From: d_musicant@yahoo.com
Organization: -
Message-ID: <20081209034833.746$Xg@newsreader.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
X-NRC-Trace: NewsReader.Com zdtFzavaLV33ySUqIFa9wVp=qsQfPbZN7g.mfpJ3cnZwMfEX
Date: 09 Dec 2008 08:49:40 GMT
Lines: 21
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P8;AJZT_83EI?nZC=b@4
X-Complaints-To: abuse@newsreader.com
Xref: g2news2.google.com rec.radio.amateur.antenna:8217
rec.radio.amateur.homebrew:1797 alt.internet.wireless:4594

DaveC <me@bogusdomain.net> wrote:
> Looking for outdoor omni "whip" antenna for 2.4 GHz.
>
> Is there any reason to not go for the greatest gain antenna, given that
> cost is not too important (within reason)?
>
> There are scads of these on the 'net. I'm looking for someone who has
> experience with one or more of them and can make a recommendation for
> one.
>
> Thanks,

This antenna works great wit my laptop and desktop:
```

D-Link ANT24-0700 Antenna, 7db gain
http://dealnews.com/D-Link-7-d-Bi-Omni-Directional-Indoor-Wireless-Antenna-for-15-after-rebate-free-shipping/262642.html

--
-

From 6632653616400797835
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!novia!news-xxxfer.readnews.com!transit4.readnews.com!news-out.readnews.com!postnews3.readnews.com!nr5c.newsreader.com.POSTED!not-for-mail
Subject: Re: WiFi antenna recommendations?
From: d_musicant@yahoo.com
Organization: -
Message-ID: <20081209035344.902$Lu@newsreader.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
<FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>
<2hIVk.8327$be.2733@nlpi061.nbdc.sbc.com>
<0001HW.C54CDDD400BED186B01AD9AF@news.sf.sbcglobal.net> <3K-dnZg7rqMVqrXUnZ2dnUVZ_obinZ2d@speakeasy.net>
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X-Complaints-To: abuse@newsreader.com
Xref: g2news1.google.com rec.radio.amateur.antenna:6440
rec.radio.amateur.homebrew:1501 alt.internet.wireless:3489

"Bill Kearney" <wkearney99@hotmail.com> wrote:
> > OK, time to clarify...
>
> You still don't describe what sort of connection you're trying to make.

I have this Comet antenna mounted on my roof and it works super!

http://www.wlanparts.com/product/GP-24/GP24_24GHz_15dbi_Omni_from_Comet.html

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-

```
From -1105632746721233700
X-Google-Thread: fcc6e,8595798a6a30ef54
X-Google-Thread: fc2a5,8595798a6a30ef54
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!a12g2000yqm.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: "Dual crimp" coax connectors?
Date: Tue, 9 Dec 2008 01:38:35 -0800 (PST)
Organization: http://groups.google.com
Lines: 27
Message-ID: <d1d682f3-4cb8-4158-8a69-07d9a2c14e11@a12g2000yqm.googlegroups.com>
References: <0001HW.C561768E0029D229B01AD9AF@news.sf.sbcglobal.net>
     <ofqdncHyWvtIo6HUnZ2dnUVZ_hydnZ2d@web-ster.com> <3e69dca0-879f-4d57-
b413-5cfea58aee79@x8g2000yqk.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 9 Dec 2008 09:38:36 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a12g2000yqm.googlegroups.com; posting-host=76.226.127.85;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.antenna:6441
rec.radio.amateur.homebrew:1502

On Dec 8, 11:12=A0pm, "Bryan" <bryan.swadenerNOS...@comcast.net> wrote:
> raypsi wrote:
> > Hey OM
> > What size gun did you has a 240watt?
> [snip]
> > 73 OM
> > n8zu
>
> Weller manufactures the following of that type of solder guns:
>
> 8200 =3D 140/100W
> D550 =3D 260/200W
> D650 =3D 300/200W
>
> Seehttp://www.cooperhandtools.com/brands/weller/index.cfm
```

>
> I have an 8200. =A0They make plain copper and iron-clad copper tips (the

Hey OM

But can you wedge a center pin from an N connector in between the
electrodes of your 140watt gun (without a tip in the gun) and solder
in the center conductor of a piece of coax? hmmm?

73 OM

n8zu

```
From -5831008987218432231
X-Google-Thread: 108122,31960fe760eab04,start
X-Google-Thread: fc2a5,31960fe760eab04,start
X-Google-Thread: 107ada,31960fe760eab04,start
X-Google-Thread: 110c99,31960fe760eab04,start
X-Google-Thread: 111320,31960fe760eab04,start
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s9g2000prg.googlegroups.com!not-for-
mail
From: elvinabr@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: our real femme
Date: Tue, 9 Dec 2008 07:37:11 -0800 (PST)
Organization: http://groups.google.com
Lines: 1
Message-ID: <42837a00-2f00-4c66-a754-8150029c8cb3@s9g2000prg.googlegroups.com>
NNTP-Posting-Host: 94.178.166.17
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1228837032 15314 127.0.0.1 (9 Dec 2008 15:37:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 9 Dec 2008 15:37:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s9g2000prg.googlegroups.com; posting-host=94.178.166.17;
     posting-account=Iq4AEgoAAAAzw2EHegLKObvlQ62MXhS6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:931
rec.radio.amateur.homebrew:1503 rec.radio.amateur.misc:1632 rec.running:5714
rec.scouting.issues:956
```

```
Some of our real femme http://wesexy.byethost8.com/



From -2509319816684719674
X-Google-Thread: fcc6e,8595798a6a30ef54
X-Google-Thread: fc2a5,8595798a6a30ef54
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!l39g2000yqn.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: "Dual crimp" coax connectors?
Date: Tue, 9 Dec 2008 07:52:00 -0800 (PST)
Organization: http://groups.google.com
Lines: 63
Message-ID: <5292332f-af39-4560-91b4-a556ba28779e@l39g2000yqn.googlegroups.com>
References: <0001HW.C561768E0029D229B01AD9AF@news.sf.sbcglobal.net>
     <ofqdncHyWvtIo6HUnZ2dnUVZ_hydnZ2d@web-ster.com> <3e69dca0-879f-4d57-
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NNTP-Posting-Host: 75.190.189.120
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1228837920 13281 127.0.0.1 (9 Dec 2008 15:52:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 9 Dec 2008 15:52:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l39g2000yqn.googlegroups.com; posting-host=75.190.189.120;
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Xref: g2news1.google.com rec.radio.amateur.antenna:6443
rec.radio.amateur.homebrew:1504

On Dec 8, 4:13=A0pm, Jeff Liebermann <je...@cruzio.com> wrote:
> On Sun, 7 Dec 2008 15:52:21 -0800 (PST), JIMMIE
>
> <JIMMIEDEE...@YAHOO.COM> wrote:
> >Tim, I solder these on the N connectors all the time with no problems.
>
> In past life, in a land far far away (Smog Angeles), I once worked for
> and later ran a comm shop. =A0At the time, UG-21/U male N connectors
> were commonly available and in fashion. =A0Our 460MHz repeater systems
> were full of them so I had plenty of experience in soldering,
> assembling, and repairing these connectors. =A0I don't want to remember
> all the 25 mile joy rides up the fire road to Santiago and Mojeska Pk
> just to fix a problem caused by a flakey UG-21/U coax connector. Well,
> to be totally accurate, I had equal problems with soldered PL-259
> connectors. =A0I fought these problems for years because I assumed there
> was no better way.
```

>
> Meanwhile, I was also involved in an avionics shop (on the business
> end). =A0They were slowly switching from soldered to crimp type
> connectors. =A0The owner insisted that is was worth the effort because
> the number of connector failures and rework had approached zero with
> the crimp type. =A0I became a believer overnight.
>
> Many years later, I designed a few marine radios for the USCG. =A0The
> specs would tolerate either solder or crimp. =A0So, I asked which they
> preferred. =A0Crimp was the answer, because they never could teach the
> techs how to properly solder a connector, while the crimper always
> does it right. =A0All our radios used crimp connectors, even on the
> inside.
>
> Roll forward more years and we have 10Base2 and 10baseT ethernet. =A0The
> former uses UG-21/u N connectors. =A0The latter uses BNC. =A0The nice
> yellow coax cable with the flakey connector was a constant source of
> headaches. =A0The crimp type BNC's never failed (unless abused).
>
> I'm not sure what to suggest. =A0With skill UG-21/u can be made to work.
> With luck, they can even be kept working in the field. =A0However, I'll
> take crimp type any day, especially after many year of experience
> dealing with both.
>
> --
> Jeff Liebermann =A0 =A0 je...@cruzio.com
> 150 Felker St #D =A0 =A0http://www.LearnByDestroying.com
> Santa Cruz CA 95060http://802.11junk.com
> Skype: JeffLiebermann =A0 =A0 AE6KS =A0 =A0831-336-2558

I dont have a problem with crimp on terminals just that where I work
someone has always borrowed the crimp tool just when I need it. I
always have my trusty soldeing gun handy, no one wants to borrow it.
For me one is as easy and works as well as the other. The biggest
problem I have with the non crimp type is the shield is eventually
cut from the connector. The ones at work that are disconnected weekly
for preventive maintenance have only lasted about 20 years before
needing the connectors replaced, BUMMER. The crimp-on type are not
without their problems. I was doing an inspection after some equipment
installation and was able to pull the the ends off of 20 BNC
connectors. The inspection stopped at that point and the decision was
made to reaccomplish all of the connectors, about 200 of them. The
installer was not happy. The problem turned out to be a bad crimp
tool. Like the solder-ons if done properly they are both reliable
connections.

Jimmie

From -8438109672909213918
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NNTP-Posting-Date: Tue, 09 Dec 2008 11:22:09 -0600
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: "Dual crimp" coax connectors?
Date: Tue, 09 Dec 2008 09:22:09 -0800
Message-ID: <5s8tj4p6njavr9eg05f4jhdq18f7qsnj3i@4ax.com>
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properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:6448
rec.radio.amateur.homebrew:1505

On Tue, 9 Dec 2008 07:52:00 -0800 (PST), JIMMIE <jimmie68@gmail.com>
wrote:

>I dont have a problem with crimp on terminals just that where I work
>someone has always borrowed the crimp tool just when I need it.

I know the problem. Tools are expensive. However, there are a
variety of cheap replacements that seem to work well for me:
<http://802.11junk.com/jeffl/antennas/Misc/slides/crimpers.html>
I have several sets of these that cover everything from RG-188 to
LMR-400 size coax. There's also one for LMR-600 but it was being
borrowed when I took the photo. (Yes, it came back eventually). I
think I paid about $35/ea for the tools in the photo. At that price,
spares are an option.

>I
>always have my trusty soldeing gun handy, no one wants to borrow it.

When I was working on the bench, I had my soldering iron bolted to a
large block of wood to discourage the borrowers. My biggest problem

was someone trading or outright stealing my Weller solder tips. I kept my supply locked up and hidden.

>For me one is as easy and works as well as the other.

I beg to differ. Many of my connector installs had to be done in the field, usually at a mountain top repeater site or up on a tower. The problem was that the wind would cool just about any soldering iron, gun, or even a propane torch, sufficiently to cause problems. Same with the USCG vessels, where the coax was snaked through the mast, and the connector had to be crimped at the top in the field. The only place where I would effectively solder a connector was inside a building. I do recall one day on a tower, when I draped my jacket over my head, and soldered some connector by flashlight, but I don't recommend doing that.

>The biggest
>problem I have with the non crimp type is the shield is eventually
>cut from the connector.

Agreed. I have the problem with my test cables. A good strain relief is a big help at immobilizing the shield. Pomona jumper cables have molded plastic strain relief's. I use clear shrink tube (so I can see when things are starting to come apart). In general, it's nut much of a problem as I have far more UG-88/u BNC plugs fall apart than the crimped variety.

>The ones at work that are disconnected weekly
>for preventive maintenance have only lasted about 20 years before
>needing the connectors replaced, BUMMER.

Weekly? 52 weeks per year times 20 years is over 1000 connector cycles. That's quite a few. I suspect the ears on the BNC jacks will also be worn. I'm not surprised that they're failing. I did some Googling and found specs for UG-88/u connectors ranging from 500-1000 mating cycles. Methinks you're at the upper limit of the lifetime.

>The crimp-on type are not
>without their problems. I was doing an inspection after some equipment
>installation and was able to pull the the ends off of 20 BNC
>connectors. The inspection stopped at that point and the decision was
>made to reaccomplish all of the connectors, about 200 of them. The
>installer was not happy. The problem turned out to be a bad crimp
>tool. Like the solder-ons if done properly they are both reliable
>connections.

Bummer. At one employer, we had an Amp-o-lectric crimping machine. Someone found that it was possible to mis-adjust the tool to produce defective crimps and proceeded to explore the possibilities. I was blessed with dozens of field failures and a recall because nobody had thought to run a pull test on the crimped connections. Everyone assumed the machine could do no wrong. However, that's the big advantage of a crimped connection... it's consistent. I can't get that kind of consistency from soldered connectors, especially those done in the field.

Incidentally, I've seen more damage done by the razor blade coax stripping tools, than by the crimping or soldering. One nick in a solid center conductor and the center pin connection falls apart inside the connector. I try to use a thermal wire stripper, but that also takes some skill.

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From -2380130036414253598
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From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Antenna dimensions?
Date: Tue, 09 Dec 2008 09:47:45 -0800
Message-ID: <daatj4ldcqpfk2na5sp2m9jrjtoldbbcmv@4ax.com>
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Xref: g2news1.google.com rec.radio.amateur.antenna:6450
rec.radio.amateur.homebrew:1506

On Mon, 08 Dec 2008 17:13:48 -0800, Jim Lux <james.p.lux@jpl.nasa.gov> wrote:

>Jeff Liebermann wrote:
>>
>> Good point, but that's not what I had in mind. I was aware of the problem and suggested that the power control be run by a micro. The algorithm needs to be worked out, but basically, the weakest signal sets the power level. The range of power adjustment also will not be huge or large enough to have much of an effect on distant stations. Our current 60 watt amplifier might have the power output reduced to about 20 watts or 4.5dB power reduction. That's less than one S-unit and probably wouldn't be noticeable even by distant stations. However, it will make a huge difference in power consumption and battery operation run time.

>Would it? A lot of amplifiers don't change their power consumption all that much, especially if they're designed for saturated operation (i.e. if you reduce the input drive, they either distort, or drop into linear mode and dissipation goes up).

For FM repeater use, the amplifiers are usually Class C or overdriven Class AB. The output devices are alternately driven into saturation and cutoff. I have some measurements somewhere for our various repeaters buried somewhere. As I vaguely recall, the overall system efficiency was about 50% for VHF and about 35% for the UHF repeater. Of course, everything is properly logged and documented:
<http://www.LearnByDestroying.com/k6bj/K6BJ%20Repeater/slides/Documentation.html>

There are a variety of methods of reducing power, but for Class C, the easiest is to reduce the collector or drain voltage on the RF output stages. This works well down to about 20% of rated output power, but often causes nasty oscillations and parasitics. It also burns quite a bit of power in the linear voltage regulator. Not ideal, but I know it works from experience designing marine VHF radios, which were adjustable and stable from 10-25 watts RF out.

My guess(tm) is that the VHF rack burns about 10A in transmit at 13.6VDC. The UHF box burns about 15A in transmit. The idea is to reduce this to the absolute minimum, and still have a usable machine. Ideally, the power control should be automatic.

You're correct that the efficiency drops badly at lower power, but reducing the overall current consumption is the goal here. The efficiency may be lousy at low power, but if the overall current consumption drops proportionately, it's good enough. The idea is to be able to run the repeater for several days, in an emergency, on battery power:
<http://www.LearnByDestroying.com/k6bj/K6BJ%20Repeater/slides/Batteries.html>
I might setup a switching regulator to reduce the power dissipated in the voltage regulator circuit. I've never tried this but it seems easy enough. Power amp distortion is not an issue here as the FM repeater doesn't have any linear components in the RF signal.

The K6BJ repeater:
<http://www.k6bj.org>
<http://www.LearnByDestroying.com/k6bj/K6BJ%20Repeater/index.html
<http://www.LearnByDestroying.com/k6bj/IRLP/index.html>

>if you have an amplifier designed for variable power output, then what
>you say might be a good idea.

Nope. None of the amps are designed to be operated that way. Few commerical FM transmitters and power amps are designed for adjustable power. Such details have never stopped me in the past. However, club politics, other priorities, and my health issues have slowed me down, thus nothing has been done.

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

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From: ml <m@di.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: "Dual crimp" coax connectors?
References: <0001HW.C561768E0029D229B01AD9AF@news.sf.sbcglobal.net>
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Xref: g2news1.google.com rec.radio.amateur.antenna:6464 rec.radio.amateur.homebrew:1507

In article <0001HW.C561768E0029D229B01AD9AF@news.sf.sbcglobal.net>,
 SparkyGuy <sparkyguy@mumcrank.ck> wrote:

> Halfway down this page (it's a PDF doc):
>
> <http://www.cablesandconnectors.com/PIX/CC-040.pdf>
>
> the TNC and BNC connectors are advertised as "dual-crimp". What does this
> mean? "Dual" as in center in crimp and outer shield ferrule crimp?

<<yes

>
> As opposed to what? Single-crimp? That would be connectors that use the
> center, solid conductor as the center pin
yes>>>(solder or captivated

and then crimp the shield ferrule?
> Or...? >>>yes
>
> Newly (did you guess?) into small coax connectors and trying to get the
> terminology straight...
<you did good

are you just trying to learn the terminology or do you really
need to make some connectors and seek the best/easiest? way to
do that??

if you did you got a bunch of good tips here from the others

>
> Thanks.

i'll throw in a few other simular options to connectors

there are strip tools that can cleanly and safely strip the coax
they just spin around and do a great job i've seen cost between 50
to 100bucks depending on coax

also you can get a fixed center pin whereby you don't have to
solder or crimp, the captivated connectors the outer
sheild part gets a crimp only typically a bit of glue on the
inside heavy ga heat shrink shrink goes over all

they are rated very good soare are the center pins /outer shield
that gets crimped using the right tool of course

no matter what you use skills at doing the job and
inspection/testing of the work will always remain a constant

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Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <0001HW.C561768E0029D229B01AD9AF@news.sf.sbcglobal.net>
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Date: Wed, 10 Dec 2008 01:44:29 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:6489
rec.radio.amateur.homebrew:1508

> One nick in a
> solid center conductor and the center pin connection falls apart
> inside the connector.

Can you say more about this? Or point to some web discussions / photos?

Thanks.



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Subject: Re: "Dual crimp" coax connectors?
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
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Date: Wed, 10 Dec 2008 01:45:05 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:6490
rec.radio.amateur.homebrew:1509

> no matter  what you use      skills   at doing the job  and
> inspection/testing  of the work   will always    remain  a constant

Your    spacing  makes    for difficult  parsing and     comprehension.



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Date: Wed, 10 Dec 2008 14:01:40 +0000
From: Dave <dave@dave.dave>
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MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: "Dual crimp" coax connectors?
References: <0001HW.C561768E0029D229B01AD9AF@news.sf.sbcglobal.net>
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<0001HW.C564CF7D00F2A984B01AD9AF@news.sf.sbcglobal.net>
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Content-Transfer-Encoding: 7bit
Lines: 12
Message-ID: <493fcbc4$0$31202$bd467cd0@news.dslextreme.com>
Organization: dslextreme.com
X-Complaints-To: abuse@dslextreme.com
```

```
Xref: g2news1.google.com rec.radio.amateur.antenna:6494
rec.radio.amateur.homebrew:1510

SparkyGuy wrote:
>> One nick in a
>> solid center conductor and the center pin connection falls apart
>> inside the connector.
>
> Can you say more about this? Or point to some web discussions / photos?
>
> Thanks.
>

Any time you nick a solid copper wire it will be severely weakened and
will likely break.


From 7121760592174858108
X-Google-Thread: fcc6e,8595798a6a30ef54
X-Google-Thread: fc2a5,8595798a6a30ef54
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <0001HW.C561768E0029D229B01AD9AF@news.sf.sbcglobal.net>
<ofqdncHyWvtIo6HUnZ2dnUVZ_hydnZ2d@web-ster.com> <3e69dca0-879f-4d57-
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Subject: Re: "Dual crimp" coax connectors?
Lines: 10
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Content-Transfer-Encoding: 7bit
X-Priority: 3
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <6OQ%k.883$c35.89@nwrddc02.gnilink.net>
Date: Wed, 10 Dec 2008 14:58:10 GMT
NNTP-Posting-Host: 71.104.205.43
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1228921090 71.104.205.43 (Wed, 10 Dec 2008 09:58:10
EST)
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NNTP-Posting-Date: Wed, 10 Dec 2008 09:58:10 EST
Xref: g2news1.google.com rec.radio.amateur.antenna:6496
rec.radio.amateur.homebrew:1511
X-Original-Bytes: 1853

> Any time you nick a solid copper wire it will be severely weakened and
> will likely break.

Dittos, can short internally too.

If it is anything important, the cable should be swept or at least checked for return loss at a higher frequency. Just in case the parts were mismatched out of the bag. Quality control can be a batch problem even in the high end stuff. Good help is hard to find.

From -1432100073437885812
X-Google-Thread: fcc6e,8595798a6a30ef54
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X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!g38g2000yqn.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: "Dual crimp" coax connectors?
Date: Wed, 10 Dec 2008 09:03:06 -0800 (PST)
Organization: http://groups.google.com
Lines: 23
Message-ID: <518774c6-0e14-436e-9f7b-55515992990a@g38g2000yqn.googlegroups.com>
References: <0001HW.C561768E0029D229B01AD9AF@news.sf.sbcglobal.net>
<ofqdncHyWvtIo6HUnZ2dnUVZ_hydnZ2d@web-ster.com> <3e69dca0-879f-4d57-b413-5cfea58aee79@x8g2000yqk.googlegroups.com>
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<5s8tj4p6njavr9eg05f4jhdq18f7qsnj3i@4ax.com>
<0001HW.C564CF7D00F2A984B01AD9AF@news.sf.sbcglobal.net>
<493fcbc4$0$31202$bd467cd0@news.dslextreme.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 10 Dec 2008 17:03:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
2.0.50727),gzip(gfe),gzip(gfe)

```
Xref: g2news1.google.com rec.radio.amateur.antenna:6497
rec.radio.amateur.homebrew:1512

On Dec 10, 9:58=A0am, "JB" <nos...@goofball.net> wrote:
> > Any time you nick a solid copper wire it will be severely weakened and
> > will likely break.
>
> Dittos, can short internally too.
>
> If it is anything important, the cable should be swept or at least checke=
d
> for return loss at a higher frequency. =A0Just in case the parts were
> mismatched out of the bag. =A0Quality control can be a batch problem even=
 in
> the high end stuff. =A0Good help is hard to find.

I learned to make cables while assisting installation of a Doppler VOR
facility . We were sweeping the pre-made cables  that came with the
system and finding a lot of them bad. We cut open a few of the bad
cables and founnd the center conductor was not in the center of the
cable. All of a couple of hundred cables had to be remade and cut for
proper phase. The other grunt worker Dust Craig and I  became very
proficient at putting N connectors on RG-214 and using a vector
voltmeter.

Jimmie



From 3072689535203082176
X-Google-Thread: fcc6e,8595798a6a30ef54
X-Google-Thread: fc2a5,8595798a6a30ef54
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 10 Dec 2008 11:26:44 -0600
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: "Dual crimp" coax connectors?
Date: Wed, 10 Dec 2008 09:26:43 -0800
Message-ID: <stsvj4phsvib8a4f2hr3jkbvnd965o5fun@4ax.com>
References: <0001HW.C561768E0029D229B01AD9AF@news.sf.sbcglobal.net>
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a556ba28779e@l39g2000yqn.googlegroups.com>
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<0001HW.C564CF7D00F2A984B01AD9AF@news.sf.sbcglobal.net>
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MIME-Version: 1.0
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qUdzNg==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.antenna:8277
rec.radio.amateur.homebrew:1810

On Wed, 10 Dec 2008 01:44:29 -0800, SparkyGuy <sparkyguy@mumcrank.ck>
wrote:

>> One nick in a
>> solid center conductor and the center pin connection falls apart
>> inside the connector.

>Can you say more about this? Or point to some web discussions / photos?
>Thanks.

There's not much to say or show. The usual example is the common RG-6/u cable TV coax, that uses the solid center wire as the center pin of the F connector. By necessity, the center wire is rather stiff. There's also no way to immobilize the center wire as there would be no room for the mating jack. If the rotary razor blade wire stripper or half asleep tech with the wire cutters manages to nick the center wire, chances are good that moving the cable around will eventually break the center wire at the nick.

Crimp type BNC plugs are also susceptible in the same area. The difference is that the center pin is either crimped or soldered. The center pin is also supported by the Teflon insulator. However, if the coax is moved constantly, as is common with test cables, any nicks in the center wire will eventually turn into a break. This one is particularly insidious because it occurs inside the connector, where both ends of the break are supported in place, resulting in an intermittent, rather than a clean break.

Big fat center wires are not immune. They just have a different problem. When one of the heavy stranded center wires from RG-8/u style coax breaks at a nick, it's usually perfectly positioned to short to ground. In the common PL-259 UHF connector, the coax end of the break is not supported, resulting in a difficult to find, and impossible to see, intermittent.

In my limited experience, the tools that cause the most problems are the ones with the built in razor blades:
<http://www.mytoolstore.com/ideal/ide08-07.html>
<http://www.mytoolstore.com/ideal/ide08-06.html#coax>

<http://www.mytoolstore.com/ideal/ide08-08.html>
<http://www.fab-corp.com/product.php?productid=1665&cat=281&page=1>
<http://www.hyperlinktech.com/item.aspx?id=879>
(Note the huge variation in pricing)

As long as the blades are sharp they work just fine. However, when the blades get dull, the user tends to bend the cable to assist in the cutting, which sometimes results in a nicked center wire. Cleaning up the stripping job with a pair of diagonal cutters also causes problems. Stripping is also difficult with Teflon insulated wire and non-wicking insulation (marine coax), where the dielectric materials are bonded to the conductors. The best way to strip these materials and to be sure not to nick the wires is with a thermal wire stripper.
<http://www.teledyneinterconnect.com/products/wire_strippers/wirestrip.asp>
I got lucky and ended up with pile of these from some aerospace surplus outlet. Very handy. Just take care not to breath the fumes.

However, if you're working with LMR-400, LMR-600, or larger, the blades of the thermal stripper cannot expand wide enough to fit the coax cable. Therefore, I suggest getting the correct Times Microwave EZ-Strip coax stripper for these cables:
<http://www.hyperlinktech.com/item.aspx?id=881>
<http://www.hyperlinktech.com/item.aspx?id=882>

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From -2220426063409888907
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Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
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Lines: 1

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NNTP-Posting-Date: Wed, 10 Dec 2008 13:39:03 EST
Xref: g2news1.google.com rec.radio.amateur.antenna:6503
rec.radio.amateur.homebrew:1514
X-Original-Bytes: 1489
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A lot of this would seem to be trade secrets.

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Path: g2news1.google.com!postnews.google.com!q30g2000vbn.googlegroups.com!not-for-
mail
From: "thegrumpymule@gmail.com" <thegrumpymule@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Date: Wed, 10 Dec 2008 18:27:13 -0800 (PST)
Organization: http://groups.google.com
Lines: 41
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<6hC_k.4612$YU6.3409@bignews8.bellsouth.net>
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Content-Transfer-Encoding: 7bit
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 11 Dec 2008 02:27:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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     posting-account=SmYj1woAAAC0piLqVPxA-uzEoyvKgzTZ
User-Agent: G2/1.0
X-HTTP-UserAgent: unknown,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1515
```

Howdy,

```
A 6L6 immersed in a can of peanut oil is an old timey final, smells
good too.


73,
Grumpy
(Who can't get news express to work withg AIOE anymore.)

ken scharf wrote:
> Fred McKenzie wrote:
> > In article
> > <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>,
> >  JIMMIE <jimmie68@gmail.com> wrote:
> >
> >> I am considering an 807 as a replacement
> >
> > Jimmie-
> >
> > Just how simple will this transmitter be?  My first novice transmitter
> > was built from an ARRL publication back in the 50s.  The specification
> > was for a single 6V6, used as a crystal oscillator with output coupled
> > to the antenna.
> >
> > I found I could get more power with a 6L6 plugged into the same socket.
> > Along the way to getting more power, I found that crystal current would
> > increase to the point where the crystal would fracture!
> >
> > If you use a 807 or 1625, I hope you will have a lower power oscillator
> > driving it.  Something like a 6AG7 would make a nice crystal oscillator,
> > and should have sufficient output to drive an 807.
> >
> > 73,
> > Fred
> > K4DII
> The 6AG7 - 807 combo is a classic.  E. F. Johnson sold a 50 Watt Novice
> transmitter in the '50's with this tube line up (also a 5R4GY rectifier
> IIRC).  Other tubes that have been used as the oscillator/driver were
> the 6CL6, 12BY7, 6GK6, and 5763.


From -492020358559996021
X-Google-Thread: fcc6e,8595798a6a30ef54
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news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe03.iad.POSTED!7564ea0f!not-for-mail
From: "NoSPAM" <unknown@nospam.org>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <0001HW.C561768E0029D229B01AD9AF@news.sf.sbcglobal.net>
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a556ba28779e@l39g2000yqn.googlegroups.com>
<5s8tj4p6njavr9eg05f4jhdq18f7qsnj3i@4ax.com>
<0001HW.C564CF7D00F2A984B01AD9AF@news.sf.sbcglobal.net>
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Subject: Re: "Dual crimp" coax connectors?  [Thermal Wire Strippers]
Lines: 29
MIME-Version: 1.0
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     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
Message-ID: <3O00l.9828$vI1.2848@newsfe03.iad>
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Date: Wed, 10 Dec 2008 23:37:19 -0500
Xref: g2news2.google.com rec.radio.amateur.antenna:8296
rec.radio.amateur.homebrew:1813
```

"Jeff Liebermann" <jeffl@cruzio.com> wrote in message
news:stsvj4phsvib8a4f2hr3jkbvnd965o5fun@4ax.com...

> As long as the blades are sharp they work just fine. However, when
> the blades get dull, the user tends to bend the cable to assist in the
> cutting, which sometimes results in a nicked center wire. Cleaning up
> the stripping job with a pair of diagonal cutters also causes
> problems. Stripping is also difficult with Teflon insulated wire and
> non-wicking insulation (marine coax), where the dielectric materials
> are bonded to the conductors. The best way to strip these materials
> and to be sure not to nick the wires is with a thermal wire stripper.
> <http://www.teledyneinterconnect.com/products/wire_strippers/wirestrip.asp>
> I got lucky and ended up with pile of these from some aerospace
> surplus outlet. Very handy. Just take care not to breath the fumes.

Before retirement, many of my instrument designs had to work in high-temperature, corrosive environments, so I frequently used PTFE* insulated wires. I purchased one of the Teledyne thermal strippers and was VERY pleased with its operation. The next year I found one for sale at a hamfest for $5. I snapped it up immediately for home use. If you work with small gauge wires, and especially with PTFE insulated wires, I strongly recommend these units.

73, Dr. Barry L. Ornitz WA4VZQ

* A later job with W. L. Gore & Associates thoroughly indoctrinated in me
that Teflon was a DuPont trademark!

```
From -95153087894326489
X-Google-Thread: fcc6e,8595798a6a30ef54
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X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!r13g2000vbp.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: "Dual crimp" coax connectors? [Thermal Wire Strippers]
Date: Thu, 11 Dec 2008 04:48:42 -0800 (PST)
Organization: http://groups.google.com
Lines: 45
Message-ID: <e23eaa7a-79d8-466a-8948-315ee367d122@r13g2000vbp.googlegroups.com>
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Xref: g2news1.google.com rec.radio.amateur.antenna:6522
rec.radio.amateur.homebrew:1517
```

On Dec 10, 11:37=A0pm, "NoSPAM" <unkn...@nospam.org> wrote:

> "Jeff Liebermann" <je...@cruzio.com> wrote in message
>
> news:stsvj4phsvib8a4f2hr3jkbvnd965o5fun@4ax.com...
>

```
> > As long as the blades are sharp they work just fine. =A0However, when
> > the blades get dull, the user tends to bend the cable to assist in the
> > cutting, which sometimes results in a nicked center wire. =A0Cleaning u=
p
> > the stripping job with a pair of diagonal cutters also causes
> > problems. =A0Stripping is also difficult with Teflon insulated wire and
> > non-wicking insulation (marine coax), where the dielectric materials
> > are bonded to the conductors. =A0The best way to strip these materials
> > and to be sure not to nick the wires is with a thermal wire stripper.
> > <http://www.teledyneinterconnect.com/products/wire_strippers/wirestrip.=
..>
> > I got lucky and ended up with pile of these from some aerospace
> > surplus outlet. =A0Very handy. =A0Just take care not to breath the fume=
s.
>
> Before retirement, many of my instrument designs had to work in
> high-temperature, corrosive environments, so I frequently used PTFE*
> insulated wires. =A0I purchased one of the Teledyne thermal strippers and=
 was
> VERY pleased with its operation. =A0The next year I found one for sale at=
 a
> hamfest for $5. =A0I snapped it up immediately for home use. =A0If you wo=
rk
> with small gauge wires, and especially with PTFE insulated wires, I
> strongly recommend these units.
>
> =A0 =A0 73, Dr. Barry L. Ornitz =A0WA4VZQ
>
> * A later job with W. L. Gore & Associates thoroughly indoctrinated in me
> that Teflon was a DuPont trademark!

We have a couple at work and I think they are the greatest thing since
sliced bread and I wanted one for home use but didnt have quite the
need to match the cost.

Not being lucky enough to find one for $5 I ground a notch in a hose
clamp and fastened it to my soldering iron. It works well on just
about anything except PTFE.

Jimmie



From -1207312287758l957
X-Google-Thread: fc2a5,36847f1ed742f97c
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X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!a37g2000pre.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
Date: Thu, 11 Dec 2008 06:11:19 -0800 (PST)
Organization: http://groups.google.com
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Xref: g2news2.google.com rec.radio.amateur.homebrew:1815

On Dec 10, 9:27=A0pm, "thegrumpym...@gmail.com"
<thegrumpym...@gmail.com> wrote:
> Howdy,
>
> A 6L6 immersed in a can of peanut oil is an old timey final, smells
> good too.
>
> 73,
> Grumpy
> (Who can't get news express to work withg AIOE anymore.)
>
>
>
I tried doing that with a 4cx250 once.  Never got it to work. Looking
back on it I should have mounted the base of the tube to the paint can
lid and hung it in the bucket upside down.
Hmmm, might be something fun to try this winter.

Jimmie



From 7169062398780773071
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From: SparkyGuy <sparkyguy@mumcrank.ck>
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Message-ID: <0001HW.C5668F8500278D9CB01AD9AF@news.sf.sbcglobal.net>
Subject: Re: "Dual crimp" coax connectors? [Thermal Wire Strippers]
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <0001HW.C561768E0029D229B01AD9AF@news.sf.sbcglobal.net>
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Date: Thu, 11 Dec 2008 09:36:05 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:6526
rec.radio.amateur.homebrew:1519

> Not being lucky enough to find one for $5 I ground a notch in a hose
> clamp and fastened it to my soldering iron.

Can't quite picture this. Got a photo?

From 8524803220345117936
X-Google-Thread: fcc6e,8595798a6a30ef54
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NNTP-Posting-Date: Thu, 11 Dec 2008 12:04:00 -0600
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: "Dual crimp" coax connectors? [Thermal Wire Strippers]
Date: Thu, 11 Dec 2008 10:03:57 -0800
Message-ID: <anj2k49t0epdc8ift0v8colsfa2st0dpeo@4ax.com>
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properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:6528
rec.radio.amateur.homebrew:1520

On Wed, 10 Dec 2008 23:37:19 -0500, "NoSPAM" <unknown@nospam.org>
wrote:

>"Jeff Liebermann" <jeffl@cruzio.com> wrote in message
>news:stsvj4phsvib8a4f2hr3jkbvnd965o5fun@4ax.com...
>
>> As long as the blades are sharp they work just fine.  However, when
>> the blades get dull, the user tends to bend the cable to assist in the
>> cutting, which sometimes results in a nicked center wire.  Cleaning up
>> the stripping job with a pair of diagonal cutters also causes
>> problems.  Stripping is also difficult with Teflon insulated wire and
>> non-wicking insulation (marine coax), where the dielectric materials
>> are bonded to the conductors.  The best way to strip these materials
>> and to be sure not to nick the wires is with a thermal wire stripper.
>> <http://www.teledyneinterconnect.com/products/wire_strippers/wirestrip.asp>
>> I got lucky and ended up with pile of these from some aerospace
>> surplus outlet.  Very handy.  Just take care not to breath the fumes.
>
>Before retirement, many of my instrument designs had to work in
>high-temperature, corrosive environments, so I frequently used PTFE*
>insulated wires.  I purchased one of the Teledyne thermal strippers and was
>VERY pleased with its operation.  The next year I found one for sale at a
>hamfest for $5.  I snapped it up immediately for home use.  If you work
>with small gauge wires, and especially with PTFE insulated wires, I
>strongly recommend these units.
>
>    73, Dr. Barry L. Ornitz  WA4VZQ
>
>* A later job with W. L. Gore & Associates thoroughly indoctrinated in me
>that Teflon was a DuPont trademark!
```

Thanks much. I checked my email this morning and found one person asking me to sell them one of these strippers, and two more asking questions about their operation. Apparently, there's some interest so I'll post my answers.

1. You can find various thermal wire strippers on eBay, usually for peanuts. For example:
<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=320323912948>
The problem is this style of stripper is only suitable for small diameter wires and small diameter coax cables. RG-6/u can be done, but it's tricky. Make sure you get the long jaws if you want something fairly universal. The problem is not getting the jaws wide enough. It's preventing the end of the coax cable from getting jammed into the narrow part of the jaws.

2. Teledyne does make the TW-6 model, that's made specifically for coax cable.
<http://www.teledyneinterconnect.com/products/stripall/models.asp>
I have several of these. We used these in a production environment to strip RG-188/u with PTFE wrap insulation and dielectric. We tried using blades, but thermal stripping was far superior.

3. Note that most models come with various forms of power control. This is not mandatory, as I have become quite proficient at timing the push button for temperature control. However, if you want to avoid overheating, burned out tips, and meltdowns, make sure you get the temperature control. If the tips glow red, it's far too hot. Adjust the operating point with an infra-red optical thermometer,

4. You can make your own thermal strippers from a length of nichrome resistance heater wire and a small soldering iron. Remove the copper tip and replace with a piece of nichrome. I've also seen a production machine made from a plastic bag cutter/sealer and another from a foam cutter. A low voltage filament transformer and a variac can also be made to work. Obviously, some experimentation will be required, but it will get warm and eventually work. Nichrome wire is available at most hardware stores for repairing heaters, toasters, and telescope condensation prevention heaters. You will need to supply some spring tension as the wire stretches when it gets warm.

The problem with using wire is that it doesn't last very long. The large heating tips of the Teledyne strippers are sufficiently massive to survive for years of constant production line operation. I can't say the same for using wire.

I suspect that one of the handheld battery operated soldering irons, could be morphed into a thermal wire stripper by replacing the heating tip with a nichrome wire.

--
Jeff Liebermann   jeffl@cruzio.com

150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From 170191168514501445
X-Google-Thread: fcc6e,8595798a6a30ef54
X-Google-Thread: fc2a5,8595798a6a30ef54
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feeder1-2.proxad.net!newsfeed.straub-nv.de!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: "Dual crimp" coax connectors? [Thermal Wire Strippers]
Date: Thu, 11 Dec 2008 10:12:09 -0800
Organization: albasani.net
Lines: 15
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Xref: g2news2.google.com rec.radio.amateur.antenna:8307
rec.radio.amateur.homebrew:1818

Jeff Liebermann wrote:

[...]

Not being in the industry, I have never seen them.

However, I am having visions (sometimes I do that, yanno', must be the

60's or sumthin'? <grin>) I see myself grabbing a small brad in a pair
of needle nose, heating it red hot and running it about the diameter of
a wire--in a pinch.

Replacing the high tech brad as necessary ... <straight face>

Regards,
JS

From -3618150715310100419
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From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: "Dual crimp" coax connectors? [Thermal Wire Strippers]
Date: Thu, 11 Dec 2008 10:37:19 -0800
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properly
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Xref: g2news2.google.com rec.radio.amateur.antenna:8310
rec.radio.amateur.homebrew:1819

On Thu, 11 Dec 2008 10:12:09 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>Jeff Liebermann wrote:

>
>[...]
>
>Not being in the industry, I have never seen them.

That's because everyone in the industry steals them, takes them home, and uses them for the rest of their life. They're hard to find.

>However, I am having visions (sometimes I do that, yanno', must be the
>60's or sumthin'? <grin>) I see myself grabbing a small brad in a pair
>of needle nose, heating it red hot and running it about the diameter of
>a wire--in a pinch.

Won't work. There's not enough thermal mass in your hot brad to do the job. The hot brad will need to hit the coax braid, or wire center conductor, in order to thermally cut through the insulation. Copper is a very good thermal conductor. As soon as the hot brad touches the copper, the heat gets sucked out of the brad rather rapidly. It might work if you're careful or very fast, but methinks it's not very practical.

Of course, you can use a large block of hot aluminum or copper with a cutting edge, but that would be potentially dangerous and certainly rather messy if you mishandled it. Of course, you're welcome to try it. Have burn grease, Band-Aids, and a fire extinguisher ready.

>Replacing the high tech brad as necessary ... <straight face>

Incidentally, I got my experience with hot wire cutters (and burned fingers) at my father's lingerie factory in Smog Angeles. We made our own as the commercial versions were seriously overpriced. My childhood wasn't totally wasted.

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

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From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: Re: FA: MOPA 2-Tube Transmitter Instant Junkbox parts assortment

```
Date: Thu, 11 Dec 2008 12:58:22 -0800 (PST)
Organization: http://groups.google.com
Lines: 24
Message-ID: <dc5059f2-63d7-4818-a518-1d9bb79bd062@y18g2000yqn.googlegroups.com>
References: <4fcc0d8f-5a41-46e9-be38-c1619125043f@y18g2000yqn.googlegroups.com>
NNTP-Posting-Host: 76.226.231.61
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229029103 17027 127.0.0.1 (11 Dec 2008 20:58:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 11 Dec 2008 20:58:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y18g2000yqn.googlegroups.com; posting-host=76.226.231.61;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.boatanchors:1552
rec.radio.amateur.homebrew:1523 rec.radio.amateur.equipment:934

On Dec 8, 12:07=A0pm, mjsi...@embarqmail.com wrote:
> I had this idea a while back, to thin out my stuff in what I think is
> a useful and interesting way. =A0Along the way I ended up having to buy
> a bunch of new stuff as well (e.g. the brand new tune and load
> variable caps). =A0So take a look - might be a fun way to spend some
> winter evenings.
>
> http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3D160303721771
>
> 73,
> Mike, KK6GM

Hey OM

I should has learned to play the guitar. Instead I got into
electronics built my first xmitter in '67 using a 6BQ5 xtal osc and
6146A final.
Everything was hot. I used series twist lock caps in the ps, B&W coil,
with aligator clip adjust, multi elmac plate and  tune caps, a tv set
power xformer, all that on a punched out 5x7x2 LMB chassis. Even the
Key was hot as I keyed the screen of the 6146A.

73 OM
n8zu


From -6854066111980065022
X-Google-Thread: fc8b1,30bde57010031c1a
X-Google-Thread: fc2a5,30bde57010031c1a
X-Google-Thread: 108122,30bde57010031c1a
X-Google-Attributes: gidfc8b1,gidfc2a5,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
```

```
Path: g2news2.google.com!postnews.google.com!k24g2000pri.googlegroups.com!not-for-
mail
From: mjsilva@embarqmail.com
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.equipme
nt
Subject: Re: FA: MOPA 2-Tube Transmitter Instant Junkbox parts assortment
Date: Fri, 12 Dec 2008 10:02:40 -0800 (PST)
Organization: http://groups.google.com
Lines: 30
Message-ID: <ab4948f6-89a2-4ae9-b128-31740dc76fde@k24g2000pri.googlegroups.com>
References: <4fcc0d8f-5a41-46e9-be38-c1619125043f@y18g2000yqn.googlegroups.com>
     <dc5059f2-63d7-4818-a518-1d9bb79bd062@y18g2000yqn.googlegroups.com>
NNTP-Posting-Host: 71.3.103.150
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229104990 32160 127.0.0.1 (12 Dec 2008 18:03:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 12 Dec 2008 18:03:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k24g2000pri.googlegroups.com; posting-host=71.3.103.150;
     posting-account=1stP5woAAADDs6CGcEBL7H05Epw-H_jm
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
     .NET CLR 2.0.50727; .NET CLR 3.0.04506; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.boatanchors:1911
rec.radio.amateur.homebrew:1821 rec.radio.amateur.equipment:1150

On Dec 11, 3:58=A0pm, raypsi <RBorow...@gmail.com> wrote:
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> power xformer, all that on a punched out 5x7x2 LMB chassis. Even the
> Key was hot as I keyed the screen of the 6146A.
```

>
> 73 OM
> n8zu

That's pretty impressive, fitting that on a 5x7 chassis!

Mike

From 3850971438457202956
X-Google-Thread: fc2a5,741a296564fdad4e,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe02.iad.POSTED!7564ea0f!not-for-mail
From: "Rich Klestinez" <replytogroup@noplace.cc>
Newsgroups: rec.radio.amateur.homebrew
Subject: Power transformers
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <iOx0l.2811$iB4.945@newsfe02.iad>
NNTP-Posting-Host: ndfoanihlmjokbhjjfonefdbdmdblpim
X-Complaints-To: abuse@charter.net
X-Trace: pdjoodfomhkjcoobfkhgnhldfhiklkalohidojokagdfiecbndfoanihlmjokbhjbledcglkfpfalkkgdkpnncjmpgnmfjgbjdalollpoehomolpifkhpdechablpmkiplepgefcpbbnokgh
NNTP-Posting-Date: Fri, 12 Dec 2008 18:10:22 UTC
Date: Fri, 12 Dec 2008 12:11:22 -0600
Xref: g2news2.google.com rec.radio.amateur.homebrew:1822

I am shuting down my shop after 40+ years of electronic repair services. Mostly tube type equipment.

I have several used transformers that could be used to make some tube type transmitters(low power). Also bunches of new and NOS tubes. Just bunches of stuff.

One transformer has 478-0-478, 50vac bias winding and a 5v winding for a 5u4. It wieghs in at 7 pounds and is a horizontal thru-chases mount. USA shipping only.

send me an email;

(((((richklestinez(at)charter.net)))))

with INVENTORY REQUEST in the subject line.

Thanks for your interest.

Rich

```
From 6661517199235842l4
X-Google-Thread: fc2a5,ce1420f5d1625f56,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f24g2000vbf.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Reference oscillators
Date: Fri, 12 Dec 2008 13:21:37 -0800 (PST)
Organization: http://groups.google.com
Lines: 18
Message-ID: <83d41cda-dca7-4709-adce-86dc13148353@f24g2000vbf.googlegroups.com>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1229116898 32175 127.0.0.1 (12 Dec 2008 21:21:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 12 Dec 2008 21:21:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f24g2000vbf.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.4)
     Gecko/2008102920 Firefox/3.0.4,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1823
```

Hi all,

Over the past few years, I've had the opportunity to save some decent reference oscillators from being thrown away, by removing them from scrap boards. They're typically good stability (temp. compensated), and reasonably low phase noise. I have 10MHz, 20MHz and 100MHz, and a couple others. Some have a voltage control input. All are 5V (but I know some will work down to 3.3V), logic output (but "logic" means PECL for the 100MHz ones). I'd be happy to send one or two to folk who have a specific reasonably immediate need for such a beast. If you're interested, drop me an email to let me know exactly what you're looking for and why you want it. I'll let you know if you made the cutoff. I may ask for shipping costs if I can't figure out how to send them cheaply enough but packaged safely. The oscillators will be free to good homes, though.

Cheers,
Tom

```
From 2308092120413967019
X-Google-Thread: fc8b1,30bde57010031c1a
X-Google-Thread: fc2a5,30bde57010031c1a
X-Google-Thread: 108122,30bde57010031c1a
X-Google-Attributes: gidfc8b1,gidfc2a5,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!
69.16.177.246.MISMATCH!cyclone03.ams.highwinds-media.com!news.highwinds-media.com!
npeersf01.ams.highwinds-media.com!newsfe29.ams2.POSTED!7564ea0f!not-for-mail
From: "Theo" <theodore.twyler@ntlworld.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.equipme
nt
References: <4fcc0d8f-5a41-46e9-be38-c1619125043f@y18g2000yqn.googlegroups.com>
<dc5059f2-63d7-4818-a518-1d9bb79bd062@y18g2000yqn.googlegroups.com>
<ab4948f6-89a2-4ae9-b128-31740dc76fde@k24g2000pri.googlegroups.com>
Subject: Re: FA: MOPA 2-Tube Transmitter Instant Junkbox parts assortment
Lines: 35
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <DaC0l.16363$Ax1.3514@newsfe29.ams2>
NNTP-Posting-Host: 86.15.197.154
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe29.ams2 1229123363 86.15.197.154 (Fri, 12 Dec 2008 23:09:23 UTC)
NNTP-Posting-Date: Fri, 12 Dec 2008 23:09:23 UTC
Organization: virginmedia.com
Date: Fri, 12 Dec 2008 23:09:21 -0000
Xref: g2news2.google.com rec.radio.amateur.boatanchors:1916
rec.radio.amateur.homebrew:1824 rec.radio.amateur.equipment:1152


<mjsilva@embarqmail.com> wrote in message
news:ab4948f6-89a2-4ae9-b128-31740dc76fde@k24g2000pri.googlegroups.com...
On Dec 11, 3:58 pm, raypsi <RBorow...@gmail.com> wrote:
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>
> 73 OM
> n8zu

That's pretty impressive, fitting that on a 5x7 chassis!

(Actually 5ft x 7ft !) ;-)

From -9148502692081178406
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!news2!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews2.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<29SdnaLYCv02yKTUnZ2dnUVZ_gqdnZ2d@web-ster.com>
<5gx_k.4672$n_5.1973@bignews7.bellsouth.net>
<_v6dnSD6xpla0aDUnZ2dnUVZ_h2dnZ2d@web-ster.com>
In-Reply-To: <_v6dnSD6xpla0aDUnZ2dnUVZ_h2dnZ2d@web-ster.com>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 45
Message-ID: <Q3E0l.7119$dc4.167@bignews2.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcbojmplmdggamonjdaohpibdmhglmjhdniddf
klpnickmioilafbanmbibeagkehceiihbbjoldfngcmehnlminkfpjhlbiefgjjjhkmcgcaokgfgda
NNTP-Posting-Date: Fri, 12 Dec 2008 20:18:40 EST
Organization: BellSouth Internet Group
Date: Fri, 12 Dec 2008 20:25:50 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1528

Tim Wescott wrote:
> ken scharf wrote:
>> Tim Wescott wrote:

>>> On Thu, 04 Dec 2008 06:23:48 -0800, JIMMIE wrote:
>>>
>>>> After years of avoiding morse code I am finally getting into it. the
>>>> ideal of operating a very simple transmitter appeals to my junkbox/
>>>> trashcan construction mentality.
>>>> I am looking for a substitue for a 6L6 that has the plate brought out
>>>> the top. I was trying to build a little Glowbug transmitter but was
>>>> having all kinds of problems neutralizing the the thing. I think I
>>>> would
>>>> have better luck if I can separate the grid and plate circuits from
>>>> each
>>>> other. I am considering an 807 as a replacement Suggestions would be
>>>> appreciated.
>>>>
>>>> Jimmie
>>>
>>> Dunno if it's been mentioned yet -- 2E26. The 807 is _not_ a 6L6 in
>>> a different envelope -- it's quit arguably the 6L6's big brother, but
>>> it's got different ratings; it could probably be shoe-horned into a
>>> circuit designed for the 6L6, but you'd be missing out on about 6dB
>>> of final output power.
>>>
>> The 807 IS a 6L6G with a 5 pin base and the plate connected to the top.
>> The published ratings of the 6L6G look different than the 807 because of
>
> -- snip --
>
>> The type 1614 is a metal tube based on the 6L6. It is a transmitting
>> version, and probably has additional shielding. Otherwise its internal
>> structure is the same as the 6L6 metal type.
>>
> How is the 6L6 metal type different internally from the 6L6G?
>

I've never xrayed or took a 6L6M apart. However the 6L6M would have
shorter leads and different inter-electrode capacitance specs due to the
metal envelope and the shorter leads. Also the metal envelope might
lead to a lower max plate voltage rating due to the danger of arc-over
to the envelope (which is connected to pin 1 for ground/shield). The
glass envelope version of the tube has more electrical insulation in
this regard. The 1614 is a transmitting version of the 6L6M. Other
than being spec'ed for ICAS operation and *maybe* having additional
internal shielding it's identical to the 6L6M.

From 922928203798397284
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!news2!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews2.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)

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MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
     <fmmck-632AC2.15563806122008@nntp.aioe.org>
<6hC_k.4612$YU6.3409@bignews8.bellsouth.net>   <c951dda6-3205-4805-9c8b-
c521a9837658@q30g2000vbn.googlegroups.com> <645cddb4-3421-4970-8f0e-
a8480015d69d@a37g2000pre.googlegroups.com>
In-Reply-To: <645cddb4-3421-4970-8f0e-a8480015d69d@a37g2000pre.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 25
Message-ID: <F7E0l.7121$dc4.1599@bignews2.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcbobonbgcfglijcknplbcjhjhfbdgakjgbkdf
klpnickmioilafbanmbibeagkehceiihbbjoldfngcmehnbmonfegjmbcblgdahdababebmbgeeiji
NNTP-Posting-Date: Fri, 12 Dec 2008 20:22:45 EST
Organization: BellSouth Internet Group
Date: Fri, 12 Dec 2008 20:29:55 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1529

JIMMIE wrote:
> On Dec 10, 9:27 pm, "thegrumpym...@gmail.com"
> <thegrumpym...@gmail.com> wrote:
>> Howdy,
>>
>> A 6L6 immersed in a can of peanut oil is an old timey final, smells
>> good too.
>>
>> 73,
>> Grumpy
>> (Who can't get news express to work withg AIOE anymore.)
>>
>>
>>
> I tried doing that with a 4cx250 once.  Never got it to work. Looking
> back on it I should have mounted the base of the tube to the paint can
> lid and hung it in the bucket upside down.
> Hmmm, might be something fun to try this winter.
>
> Jimmie
I recall an article on using a 4cx250 with water cooling.  Actually it
sat upside down in a pool of water which was allowed to boil off from
the heat of the tube.  Which means the tube didn't get hotter than 100
degrees C (until all the water boiled away).  This is known as 'vapor
phase cooling'.  Believe it or not you can cool a tube with STEAM!


From -6661887758773178541
X-Google-Thread: fc2a5,36847f1ed742f97c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
```

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Path: g2news2.google.com!news1.google.com!news.glorb.com!news2!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews2.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6L6 substitute
References: <9dcff61e-91dd-4b57-8572-908eb16f4117@t3g2000yqa.googlegroups.com>
<29SdnaLYCv02yKTUnZ2dnUVZ_gqdnZ2d@web-ster.com>
<5gx_k.4672$n_5.1973@bignews7.bellsouth.net>
<_v6dnSH6xpnk0aDUnZ2dnUVZ_h2dnZ2d@web-ster.com>
In-Reply-To: <_v6dnSH6xpnk0aDUnZ2dnUVZ_h2dnZ2d@web-ster.com>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 92
Message-ID: <IjE0l.7125$dc4.741@bignews2.bellsouth.net>
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X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcboghdjlngpblpjappfmmcagnngghgflfjidf
klpnickmioilafbanmbibeagkehceiihbbjoldfngcmehndimafmagpcmphbmgjcgfbiocdjinejdo
NNTP-Posting-Date: Fri, 12 Dec 2008 20:35:36 EST
Organization: BellSouth Internet Group
Date: Fri, 12 Dec 2008 20:42:46 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1827
```

```
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>>> it's got different ratings; it could probably be shoe-horned into a
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>>> of final output power.
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```

>> The 807 IS a 6L6G with a 5 pin base and the plate connected to the top.
>> The published ratings of the 6L6G look different than the 807 because
>> of their intended use. ICAS ratings for the 6L6G were never published.
>> Also the 807 has additional shielding and insulation over the 6L6G
>> that make it usable at higher frequencies and voltages than the 6L6G.
>> Most 807's have ceramic spaces to support the plate which are lacking
>> in the 6L6G. But make no mistake about it, the two tubes share the
>> IDENTICAL cathode, grids, and plate structures.
>>
>> The 6BG6G tv sweep tube IS an 807 with an octal base. It has the same
>> ceramic plate supports, but lacks the extra rf shielding.
>>
>> The 1625 is an 807 with a 12.6 volt heater and a large (same as type
>> '59) 7 pin base.
>>
>> The type 1614 is a metal tube based on the 6L6. It is a transmitting
>> version, and probably has additional shielding. Otherwise its internal
>> structure is the same as the 6L6 metal type.
>>
>> The type 1619 is sorta kinda a 6L6 with a directly heated 2.5v cathode.
>> Same metal bulb as the 6L6. Specs' are different due to the different
>> element spacing thanks to the filament cathode. This tube is often
>> triode connected to replace 45's and 2A3's in old radios with a socket
>> adapter.
>>
>> As a result the of the construction differences regarding shielding,
>> the 807 often would NOT need neutralization while 6L6G's and 6BG6G
>> tubes used as rf power amps do.
>>
>>
>> The 6L6GA was identical to the 6L6G except that the bulb shrunk from
>> an ST16 to an ST14 size. The 6L6GB was identical except for the bulb
>> changing again to a T14. The 6L6GC is a totally different bottle with
>> higher plate and screen dissipation and plate voltage ratings. The
>> 6L6GC was said to be a plug in replacement for the older 6L6 tubes,
>> but RCA kept the 6L6GB around for a while anyway. In fact a bias
>> re-adjustment was a good idea when replacing an older 6L6 with the 'GC
>> version if a cathode bias resistor wasn't used.
>>
> I bow to your superior knowledge.
>
> How do you know? Time spent busting tubes and looking inside? Old-time
> service and/or circuit design experience? Experience building tubes?
>
> I'd love to see a detailed family tree for some of the more popular tube
> types.
>

I've done a lot of reading on this subject. Old QST's (from the '30s),
books about tubes, and I've smashed a few open (dead ones of course).
I also have a small collection of old tube manuals (in print and pdf off
the 'web).
BTW the 6L6 family tree is quite large and includes bottles such as the
7027/A (really a 6L6 with a bigger plate and TWO base pin connections

for G1 and G2). Most sweep tubes are descendants of the 6L6 (the 6BG6G directly and others indirectly). Other 'hifi' output BP tubes such as the 6550, and the 'KT' series are based on the 6L6 with larger elements for handling more power. The British have in interesting twist on the language. KT stands for 'Kinkless Tetrode' which refers to the lack of the dip in plate current as the screen voltage reaches the critical point of secondary emission in tetrodes. BP tubes are considered tetrodes since they lack a third grid, but those BP tubes with beam deflection elements should be considered 5 element tubes. (Not all BP tubes have the deflection plates. The critical parts of the BP formula are aligned turns on G1 and G2, critical spacing between G2 and the plate, and optionally deflection elements to focus the electrons into sheets. Having a plate with 'catch pockets' such as on the 4-400 works as well as the BD elements.)

From -4391989096044672264
X-Google-Thread: fc2a5,8c2592a01c6ef65f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <3dIZk.1247$gx1.453@newsfe16.ams2>
Subject: Re: icom 7400 ext.spkr socket
Lines: 8
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <gkF0l.1312$c35.901@nwrddc02.gnilink.net>
Date: Sat, 13 Dec 2008 02:44:28 GMT
NNTP-Posting-Host: 71.119.233.7
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1229136268 71.119.233.7 (Fri, 12 Dec 2008 21:44:28 EST)
NNTP-Posting-Date: Fri, 12 Dec 2008 21:44:28 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:1531

> Need to replace or resolder ext. speaker socket on Icom 7400,and wonder if
> anyone has knowhow on this job. Thanks for any info.!
>
> doug.
>

$50 +shipping and parts

http://infotech.awardspace.com/

```
From -3349139030611849377
X-Google-Thread: fc8b1,30bde57010031c1a
X-Google-Thread: fc2a5,30bde57010031c1a
X-Google-Thread: 108122,30bde57010031c1a
X-Google-Attributes: gidfc8b1,gidfc2a5,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!o40g2000prn.googlegroups.com!not-for-
mail
From: mjsilva@embarqmail.com
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.equipme
nt
Subject: Re: FA: MOPA 2-Tube Transmitter Instant Junkbox parts assortment
Date: Sat, 13 Dec 2008 10:49:58 -0800 (PST)
Organization: http://groups.google.com
Lines: 45
Message-ID: <6d62330c-f9a1-494e-b7c0-4fc5c68c3433@o40g2000prn.googlegroups.com>
References: <4fcc0d8f-5a41-46e9-be38-c1619125043f@y18g2000yqn.googlegroups.com>
     <dc5059f2-63d7-4818-a518-1d9bb79bd062@y18g2000yqn.googlegroups.com>
     <ab4948f6-89a2-4ae9-b128-31740dc76fde@k24g2000pri.googlegroups.com>
     <DaC0l.16363$Ax1.3514@newsfe29.ams2>
NNTP-Posting-Host: 71.3.103.150
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229194199 10016 127.0.0.1 (13 Dec 2008 18:49:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 13 Dec 2008 18:49:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o40g2000prn.googlegroups.com; posting-host=71.3.103.150;
     posting-account=1stP5woAAADDs6CGcEBL7H05Epw-H_jm
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
     .NET CLR 2.0.50727; .NET CLR 3.0.04506; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.boatanchors:1563
rec.radio.amateur.homebrew:1532 rec.radio.amateur.equipment:942

On Dec 12, 6:09=A0pm, "Theo" <theodore.twy...@ntlworld.com> wrote:
> <mjsi...@embarqmail.com> wrote in message
>
> news:ab4948f6-89a2-4ae9-b128-31740dc76fde@k24g2000pri.googlegroups.com...
> On Dec 11, 3:58 pm, raypsi <RBorow...@gmail.com> wrote:
>
>
>
>
>
> > On Dec 8, 12:07 pm, mjsi...@embarqmail.com wrote:
```

>
> > > I had this idea a while back, to thin out my stuff in what I think is
> > > a useful and interesting way. Along the way I ended up having to buy
> > > a bunch of new stuff as well (e.g. the brand new tune and load
> > > variable caps). So take a look - might be a fun way to spend some
> > > winter evenings.
>
> > >http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3D160303721771
>
> > > 73,
> > > Mike, KK6GM
>
> > Hey OM
>
> > I should has learned to play the guitar. Instead I got into
> > electronics built my first xmitter in '67 using a 6BQ5 xtal osc and
> > 6146A final.
> > Everything was hot. I used series twist lock caps in the ps, B&W coil,
> > with aligator clip adjust, multi elmac plate and tune caps, a tv set
> > power xformer, all that on a punched out 5x7x2 LMB chassis. Even the
> > Key was hot as I keyed the screen of the 6146A.
>
> > 73 OM
> > n8zu
>
> That's pretty impressive, fitting that on a 5x7 chassis!
>
> (Actually 5ft x 7ft !) =A0;-)- Hide quoted text -
>
> - Show quoted text -

You mean kinda like this?

http://i408.photobucket.com/albums/pp169/snarflemike/SCAN0006.jpg

From -2687163721713191197
X-Google-Thread: fc8b1,30bde57010031c1a
X-Google-Thread: fc2a5,30bde57010031c1a
X-Google-Thread: 108122,30bde57010031c1a
X-Google-Attributes: gidfc8b1,gidfc2a5,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!s14g2000vbp.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: Re: FA: MOPA 2-Tube Transmitter Instant Junkbox parts assortment
Date: Sat, 13 Dec 2008 15:38:34 -0800 (PST)
Organization: http://groups.google.com
Lines: 63
Message-ID: <0a1be5d2-178a-4874-8ef7-736970ac7404@s14g2000vbp.googlegroups.com>

```
References: <4fcc0d8f-5a41-46e9-be38-c1619125043f@y18g2000yqn.googlegroups.com>
     <dc5059f2-63d7-4818-a518-1d9bb79bd062@y18g2000yqn.googlegroups.com>
     <ab4948f6-89a2-4ae9-b128-31740dc76fde@k24g2000pri.googlegroups.com>
     <DaC0l.16363$Ax1.3514@newsfe29.ams2> <6d62330c-f9a1-494e-
b7c0-4fc5c68c3433@o40g2000prn.googlegroups.com>
NNTP-Posting-Host: 155.178.5.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229211514 5287 127.0.0.1 (13 Dec 2008 23:38:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 13 Dec 2008 23:38:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s14g2000vbp.googlegroups.com; posting-host=155.178.5.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.4)
     Gecko/2008102920 Firefox/3.0.4,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.boatanchors:1920
rec.radio.amateur.homebrew:1830 rec.radio.amateur.equipment:1157

On Dec 13, 1:49=A0pm, mjsi...@embarqmail.com wrote:
> On Dec 12, 6:09=A0pm, "Theo" <theodore.twy...@ntlworld.com> wrote:
>
>
>
> > <mjsi...@embarqmail.com> wrote in message
>
> >news:ab4948f6-89a2-4ae9-b128-31740dc76fde@k24g2000pri.googlegroups.com..=
.
> > On Dec 11, 3:58 pm, raypsi <RBorow...@gmail.com> wrote:
>
> > > On Dec 8, 12:07 pm, mjsi...@embarqmail.com wrote:
>
> > > > I had this idea a while back, to thin out my stuff in what I think =
is
> > > > a useful and interesting way. Along the way I ended up having to bu=
y
> > > > a bunch of new stuff as well (e.g. the brand new tune and load
> > > > variable caps). So take a look - might be a fun way to spend some
> > > > winter evenings.
>
> > > >http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3D160303721771
>
> > > > 73,
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```

,
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> > > n8zu
>
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>
> > (Actually 5ft x 7ft !) =A0;-)- Hide quoted text -
>
> > - Show quoted text -
>
> You mean kinda like this?
>
> http://i408.photobucket.com/albums/pp169/snarflemike/SCAN0006.jpg

My neighbor gave me one of those 5 tube AM BCB radio kits back when I
was a kid. It was part of an electronics correspondence course he was
taking. The idea was to put it together breadboard fashion on the
schematic then when you got it working move it to the chassis. I
thought it was cool just keeping it on the breadboard and hauled it
around for years until it finally got stolen out of storage about 20
years ago. Over the years I had tested several mods on it. HF
converters, adding another IF stage, a BFO, Q multiplier and reworked
the series filament string for parallel operation. I'm sure if it was
still around I would still be tinkering with it.

Jimmie

From 6971881957242897900
X-Google-Thread: fc8b1,30bde57010031c1a
X-Google-Thread: fc2a5,30bde57010031c1a
X-Google-Thread: 108122,30bde57010031c1a
X-Google-Attributes: gidfc8b1,gidfc2a5,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews6.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.equipme
nt
Subject: Re: FA: MOPA 2-Tube Transmitter Instant Junkbox parts assortment
References: <4fcc0d8f-5a41-46e9-be38-c1619125043f@y18g2000yqn.googlegroups.com>
<dc5059f2-63d7-4818-a518-1d9bb79bd062@y18g2000yqn.googlegroups.com>
In-Reply-To: <dc5059f2-63d7-4818-a518-1d9bb79bd062@y18g2000yqn.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed

Content-Transfer-Encoding: 7bit
Lines: 48
Message-ID: <5a_0l.7945$UI2.3187@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcbomjfchiphdpgphgmjmnmfofihnblfeanpdf
klpnickmioilafjjneebceapajlkfgihbbjoldfngcmehnpggecabbpplcmceinimjijeefldcoilp
NNTP-Posting-Date: Sat, 13 Dec 2008 21:27:13 EST
Organization: BellSouth Internet Group
Date: Sat, 13 Dec 2008 21:29:26 -0500
Xref: g2news1.google.com rec.radio.amateur.boatanchors:1565
rec.radio.amateur.homebrew:1534 rec.radio.amateur.equipment:944

raypsi wrote:

> On Dec 8, 12:07 pm, mjsi...@embarqmail.com wrote:
>> I had this idea a while back, to thin out my stuff in what I think is a useful and interesting way. Along the way I ended up having to buy a bunch of new stuff as well (e.g. the brand new tune and load variable caps). So take a look - might be a fun way to spend some winter evenings.
>>
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>
> 73 OM
> n8zu

I didn't build a transmitter when I got my Novice License (in my teens), though I did start collecting parts to do so. I was going to build a rig using a 6GK6 oscillator and an 807 final. But, on Washington's birthday I went down to Harrison's in NYC for their big yearly sale. They had a stack of Elmac AF67 transmitters for about $15 each, so I got one. I had to build a power supply for it though. This I did using a junk salvaged from old TV sets found curbside on garbage pick up days.

I used to ride around the neighborhood on my bicycle looking for thrown out TV sets. I carried enough tools with me to pull a chassis out of a cabinet and lug it home. Then I'd tear it apart in the basement and keep the goodies.

Seems all of those AF67's had the same problem, burned out modulation transformers. But they worked great on CW with crystal control. Some of them also had bad VFO's.

Years later when my brother got his novice license we found him a used Lafayette HA350 receiver and I built him a two tube transmitter. Actually I used parts from my now defunct AF67 stuffed into a large minibox as a chassis. It used the 6GK6 (from the junk box) and a 6146 in the final (from the AF67). I wonder if he still has that transmitter lost in his basement? I might want it (and the HA350) back.

```
From -3381424873398053389
X-Google-Thread: fc2a5,6d7118b26a1f9d68,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews6.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Wanted BC454 bfo coil
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 4
Message-ID: <Sw_0l.7953$UI2.6555@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcbofhabbgbnaffogcohhpibdmhglmjhdniddf
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Organization: BellSouth Internet Group
Date: Sat, 13 Dec 2008 21:53:43 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1832
```

Anybody have a BFO coil from a BC454 receiver?
I have a homebrew receiver project in mind using some of the
1415 khz IF transformers out of one of these but I don't have
the BFO coil.

```
From -8853593411611131517
X-Google-Thread: fc2a5,6d7118b26a1f9d68
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 14 Dec 2008 01:30:25 -0600
Date: Sun, 14 Dec 2008 02:30:16 -0500
From: highlandham <rfburns@nospam.com>
```

User-Agent: Icedove 1.5.0.9 (X11/20061220)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted BC454 bfo coil
References: <Sw_0l.7953$UI2.6555@bignews6.bellsouth.net>
In-Reply-To: <Sw_0l.7953$UI2.6555@bignews6.bellsouth.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <PeednWs5At2MK9nUnZ2dnUVZ8uGdnZ2d@pipex.net>
Lines: 10
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.107.29.68
X-Trace: sv3-2fj7e+1MUvTsrACCB6m86xiXFrxOp/B0cDoFyR2DyX/EeDEfZs/3o22SjOTuo/
7LQEBUgQPvt0sibau!kVUT1ZbgJHCH84AGB5N9O6jxGFFR6N7WZa7xdDmdqL7bnd/
67C9H16eKHdQHB3iHOzzxzbaKhFXO!ehbtmQb5F/mo6lp8yNktmv7Z
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:1833

ken scharf wrote:
> Anybody have a BFO coil from a BC454 receiver?
> I have a homebrew receiver project in mind using some of the
> 1415 khz IF transformers out of one of these but I don't have
> the BFO coil.

======================================
This being a homebrew NG.......would it not be possible to make the BFO
coil ,or is it a RF transformer , yourself ?

Frank   KN6WH

From 4099427777003467775
X-Google-Thread: fc2a5,ffb4995423606c03
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!i24g2000prf.googlegroups.com!not-for-
mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Doubling
Date: Sun, 14 Dec 2008 08:20:56 -0800 (PST)
Organization: http://groups.google.com
Lines: 9
Message-ID: <53d62848-294c-4264-80f3-68e772536ce4@i24g2000prf.googlegroups.com>
References: <gg7qs402stp@news1.newsguy.com>
<Pine.NEB.4.64.0811230222280.12668@sdf.lonestar.org>
NNTP-Posting-Host: 99.145.82.225
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Content-Type: text/plain; charset=ISO-8859-1

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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229271657 19152 127.0.0.1 (14 Dec 2008 16:20:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 14 Dec 2008 16:20:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i24g2000prf.googlegroups.com; posting-host=99.145.82.225;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
     .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506;
     InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1537

On Nov 22, 8:43=A0pm, Stray Dog <sdog2...@sdf.lonestar.org> wrote:
> Despite what at least one other person responding to this said, I can res=
t
> assure you that if you run a doubler/multiplier stage even in a linear
> mode, AND if you tune the output of that stage to the multiple harmonic,
> you will definitely get output at that harmonic frequency which is
> stronger than the input drive voltage.

Huh? No way... you MUST have non-linearities to make a doubler.


From 1675048355914147965
X-Google-Thread: fc2a5,6d7118b26a1f9d68
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews5.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted BC454 bfo coil
References: <Sw_0l.7953$UI2.6555@bignews6.bellsouth.net>
<PeednWs5At2MK9nUnZ2dnUVZ8uGdnZ2d@pipex.net>
In-Reply-To: <PeednWs5At2MK9nUnZ2dnUVZ8uGdnZ2d@pipex.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 13
Message-ID: <OLb1l.7959$nD1.7880@bignews5.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcbokfjfiedbclhgbdodnaejpmbmdhpolmlhdf
klpnickmioilafggmigdagghennllmihbbjoldfngcmehngagjjlimobijigfogghipkbjhfldconn
NNTP-Posting-Date: Sun, 14 Dec 2008 12:54:54 EST
Organization: BellSouth Internet Group
Date: Sun, 14 Dec 2008 13:00:27 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1538
```

```
highlandham wrote:
> ken scharf wrote:
>> Anybody have a BFO coil from a BC454 receiver?
>> I have a homebrew receiver project in mind using some of the
>> 1415 khz IF transformers out of one of these but I don't have
>> the BFO coil.
> =====================================
> This being a homebrew NG.......would it not be possible to make the BFO
> coil ,or is it a RF transformer ,  yourself ?
>
> Frank      KN6WH
I do have a few extra 1415 khz if transformers so I could probably
convert one into a bfo coil if I can't find the real McCoy.
```

```
From 4346008239169998417
X-Google-Thread: fc2a5,979f84c05fc97670,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!postnews.google.com!b38g2000prf.googlegroups.com!not-for-
mail
From: "Gian, I7SWX" <i7swx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: PA3AKE Project Update - DDS
Date: Sun, 14 Dec 2008 12:32:26 -0800 (PST)
Organization: http://groups.google.com
Lines: 42
Message-ID: <f4882ffa-49e7-4c25-917d-a2de727c6e07@b38g2000prf.googlegroups.com>
NNTP-Posting-Host: 82.51.11.225
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229286746 25525 127.0.0.1 (14 Dec 2008 20:32:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 14 Dec 2008 20:32:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b38g2000prf.googlegroups.com; posting-host=82.51.11.225;
     posting-account=udTjrAoAAAAiwxU1IW0RllxgGCbsoHkm
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1539
```

Hi all,

I have been talking to Colin Horrabin, G3SBI, and we spoke about the
good work Meirtein Bakker, PA3AKE, is doing on his high performance
analog front-end receiver using the H-Mode Mixer.
Martein is a very good research engineer and amateur radio. With his
knowledge, determination and attention, using homemade test equipment
and a W&G spectrum analyzer he has identified a design problem in the
AD9910 which will probably also affect the AD9912 and other recent DDS
chips by ADI. Colin was able to talk to Analog Device high speed DDS

group in North Carolina. There was a great deal of reluctance to accept Martein's findings. Eventually they were able to duplicate his results and they were very grateful to Martein because the same mistake will not be made in their new designs. We have a very low phase noise with ADI 9910-12 DDS but we are discovering AM noise !!!! a problem not present with the AD9951.

As Colin stated, the remarkable thing is that it has taken an amateur radio state of the art receiver project to identify this and it has not been found by Analog Devices big customers with all their high tech test equipment.

The bad news is that it is unlikely there will be a chip revision, even though the fix is simple unless there is pressure from a major customer. Maybe this is a good pressure some of our colleagues could apply to ADI from their engineering key positions.

Analog Devices is a company we all have a lot of respect for. The high speed DDS chips are a major technical achievement and are useful to our hobby as Martein will show. During chip development the design team probably paid too much attention to results from their high tech measuring equipment when by design it rejected a device parameter they should also have been looking for.

Martein has just published an update to report on the evaluation of the AD9910 DDS chip to be used as the DDS-Local Oscillator that complements the Down Conversion Frontend. The research regarding the AD9910 and especially its noise characteristics is finished. Those interested can visit his web page:

http://www.xs4all.nl/~martein/pa3ake/hmode/index.html

73 and with the occasion Season=92s Greetings

Gian
I7SWX

From 4517405568808738436
X-Google-Thread: fc2a5,74151061e9274a7c,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!17g2000vbf.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Cutting non ferrous metals with a table saw
Date: Sun, 14 Dec 2008 13:27:36 -0800 (PST)
Organization: http://groups.google.com
Lines: 13
Message-ID: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
NNTP-Posting-Host: 155.178.6.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1229290056 2144 127.0.0.1 (14 Dec 2008 21:27:36 GMT)
X-Complaints-To: groups-abuse@google.com

```
NNTP-Posting-Date: Sun, 14 Dec 2008 21:27:36 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 17g2000vbf.googlegroups.com; posting-host=155.178.6.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.4)
     Gecko/2008102920 Firefox/3.0.4,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1837
```

I have some door kick panels, some brass and a couple of Al ones. I have used these before to make enclosures but in the past I always cut them with a reciprocating saw then did a lot of filing to get the edges straight and pretty. I was wondering if I could cut these using my table saw. The motor is sealed so I don't have to worry about getting metal shavings in it. Anyone here ever done this before. If so what kind of blade did you use? Were there any special techniques you applied?

It seems like this would save me a lot of finish work if I could do it.

Jimmie

```
From -3605083279484971085
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.cpinternet!news.posted.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 14 Dec 2008 15:52:52 -0600
Date: Sun, 14 Dec 2008 15:54:28 -0600
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
In-Reply-To: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
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iSVl8eSNlPL97muQSXHsWx!UkdQCfBm1eiRVa7GNy43uw==
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
```

X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:1838

JIMMIE wrote:

> I have some door kick panels, some brass and a couple of Al ones. I
> have used these before to make enclosures but in the past I always cut
> them with a reciprocating saw then did a lot of filing to get the
> edges straight and pretty. I was wondering if I could cut these using
> my table saw. The motor is sealed so I don't have to worry about
> getting metal shavings in it. Anyone here ever done this before. If so
> what kind of blade did you use? Were there any special techniques you
> applied?
>
> It seems like this would save me a lot of finish work if I could do
> it.
>
> Jimmie

I have used high speed small table slitting saws to cut small pieces of non-ferrous; for larger projects, I have used a table saw, radial-arm saw or circular saw, with the blade reversed (old plywood blades generally). Except for the large kerf, I get straight edges. For most projects however I resort to the hand hack saw and file ;)

One can make a high speed slitting table saw from a lateral mounting of a dremel tool; use multiple emery cutoff wheels on the arbor or a diamond wheel.

Michael

Michael

From 182100070122071558
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews6.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com> <k4mdncusi9ipHdjUnZ2dnUVZ_o7inZ2d@posted.cpinternet>

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In-Reply-To: <k4mdncusi9ipHdjUnZ2dnUVZ_o7inZ2d@posted.cpinternet>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
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Lines: 40
Message-ID: <8vf1l.8341$UI2.22@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcbohhbeaanomoibdbmeobbbcmckokoagpkldf
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NNTP-Posting-Date: Sun, 14 Dec 2008 17:10:12 EST
Organization: BellSouth Internet Group
Date: Sun, 14 Dec 2008 17:12:26 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1839
X-Original-Bytes: 2891

msg wrote:
> JIMMIE wrote:
>
>> I have some door kick panels, some brass and a couple of Al ones. I
>> have used these before to make enclosures but in the past I always cut
>> them with a reciprocating saw then did a lot of filing to get the
>> edges straight and pretty. I was wondering if I could cut these using
>> my table saw. The motor is sealed so I don't have to worry about
>> getting metal shavings in it. Anyone here ever done this before. If so
>> what kind of blade did you use? Were there any special techniques you
>> applied?
>>
>> It seems like this would save me a lot of finish work if I could do
>> it.
>>
>> Jimmie
>
> I have used high speed small table slitting saws to cut small pieces
> of non-ferrous; for larger projects, I have used a table saw, radial-arm
> saw or circular saw, with the blade reversed (old plywood blades
> generally).
> Except for the large kerf, I get straight edges.  For most projects however
> I resort to the hand hack saw and file ;)
>
> One can make a high speed slitting table saw from a lateral mounting of
> a dremel tool; use multiple emery cutoff wheels on the arbor or a diamond
> wheel.
>
> Michael
>
> Michael
>
I've heard of people cutting non-ferrous metal with a table saw.
If the metal is not too thin it should work, thin metal may curl up and
bind in the saw, or worse go flying off the table!
If you must cut thin metal back it with a piece of thin hardwood.
```

I've also heard of people mounting the blade backwards so the teeth face away from the work to cut aluminum. Not sure how this helps, but others say it works.

```
From 3467783354963271896
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.cpinternet!news.posted.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 14 Dec 2008 16:38:38 -0600
Date: Sun, 14 Dec 2008 16:40:15 -0600
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
<k4mdncusi9ipHdjUnZ2dnUVZ_o7inZ2d@posted.cpinternet>
<8vf1l.8341$UI2.22@bignews6.bellsouth.net>
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Content-Transfer-Encoding: 7bit
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Lines: 14
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NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-buOJFHlK2ShbRo3V4K72Jx19vXPF/Ar6BNAInKoSOCe0KXmVp3lidDJ2T9Eb/
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ZFpdIFK6cAqhwy4HZV6rvg==
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1543
```

ken scharf wrote:

<snip>

> I've also heard of people mounting the blade backwards so the teeth face away from the work to cut aluminum. Not sure how this helps, but others say it works.

Perhaps I should have said 'backward' rather than 'reversed' as the latter may imply reversed rotation. Mounting the blade opposite to its normal orientation is what I meant and that has worked for me on light gauge

metal. For thicker Al and brass, I have used the dremel slitting saw
method.

Michael

```
From -4965670153688032997
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!npeer03.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
post01.iad.highwinds-media.com!newsfe04.iad.POSTED!7564ea0f!not-for-mail
From: "NoSPAM" <unknown@nospam.org>
Newsgroups: rec.radio.amateur.homebrew
Followup-To: rec.radio.amateur.homebrew
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
In-Reply-To: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
Subject: Re: Cutting non ferrous metals with a table saw
Lines: 21
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Content-Transfer-Encoding: 7bit
X-Priority: 3
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X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
Message-ID: <MXf1l.5628$hs1.3621@newsfe04.iad>
NNTP-Posting-Host: jnibogphckphemgkkgknfdakiclijcld
X-Complaints-To: abuse@charter.net
X-Trace:
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NNTP-Posting-Date: Sun, 14 Dec 2008 22:40:44 UTC
Date: Sun, 14 Dec 2008 17:40:38 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1544
```

"JIMMIE" <jimmie68@gmail.com> wrote in message
news:2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com...

>I have some door kick panels, some brass and a couple of Al ones. I
> have used these before to make enclosures but in the past I always cut
> them with a reciprocating saw then did a lot of filing to get the
> edges straight and pretty. I was wondering if I could cut these using
> my table saw. The motor is sealed so I don't have to worry about
> getting metal shavings in it. Anyone here ever done this before. If so
> what kind of blade did you use? Were there any special techniques you
> applied?
>
> It seems like this would save me a lot of finish work if I could do it.

I have cut hard aluminum using a table saw with a tungsten carbide blade.
You have to be careful to feed the work slowly to the saw if you want
smooth edges. SAFETY GLASSES OR GOGGLES ARE A MUST!

73, Dr. Barry L. Ornitz WA4VZQ

```
From -8684884460042672887
X-Google-Thread: fc2a5,ffb4995423606c03
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!goblin2!goblin1!goblin.stu.neva.ru!
egsner!news.cirr.com!sdf.lonestar.org!sdog2008
From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Doubling
Date: Sun, 14 Dec 2008 22:57:30 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 62
Message-ID: <Pine.NEB.4.64.0812142250080.23242@sdf.lonestar.org>
References: <gg7qs402stp@news1.newsguy.com>
<Pine.NEB.4.64.0811230222280.12668@sdf.lonestar.org>
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X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Sun, 14 Dec 2008 22:57:32 +0000 (UTC)
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Xref: g2news2.google.com rec.radio.amateur.homebrew:1842

  This message is in MIME format.  The first part should be readable text,
  while the remaining parts are likely unreadable without MIME-aware tools.

--0-570127266-1229295450=:23242
Content-Type: TEXT/PLAIN; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: QUOTED-PRINTABLE



On Sun, 14 Dec 2008, Telstar Electronics wrote:

> Date: Sun, 14 Dec 2008 08:20:56 -0800 (PST)
> From: Telstar Electronics <briangriffey@sbcglobal.net>
> Newsgroups: rec.radio.amateur.homebrew
> Subject: Re: Doubling
>=20
> On Nov 22, 8:43=A0pm, Stray Dog <sdog2...@sdf.lonestar.org> wrote:
>> Despite what at least one other person responding to this said, I can re=
st
```

>> assure you that if you run a doubler/multiplier stage even in a linear
>> mode, AND if you tune the output of that stage to the multiple harmonic,
>> you will definitely get output at that harmonic frequency which is
>> stronger than the input drive voltage.
>
> Huh? No way... you MUST have non-linearities to make a doubler.

All tubes (and transistors, etc) have non-linearities (if the transfer=20
characteristics are non-straight lines) if that is what you are talking=20
about.

However, I have observed output on a scope of second harmonics (and, yes,=
=20
the time base was set right and auto-self triggering) and the=20
amplifier was running no higher than Class B. You should actually try this=
=20
yourself and see for yourself. Tune the output to the second harmonic and=
=20
you will see grow out of the vally new "peaks" corresponding to that=20
second harmonic.

I don't know what the solid state gear is doing, but from many schematics=
=20
of the vintage tube gear I'm familiar with show, and measure, biasing for=
=20
linear operation, even in stages meant to multiply frequency.

--0-570127266-1229295450=:23242--

From -7020107810223707780
X-Google-Thread: fc2a5,ffb4995423606c03
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From: "NoSPAM" <unknown@nospam.org>
Newsgroups: rec.radio.amateur.homebrew
Followup-To: rec.radio.amateur.homebrew>
References: <gg7qs402stp@news1.newsguy.com>
<Pine.NEB.4.64.0811230222280.12668@sdf.lonestar.org>
<53d62848-294c-4264-80f3-68e772536ce4@i24g2000prf.googlegroups.com>
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Lines: 292
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This is a multi-part message in MIME format.

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Content-Transfer-Encoding: quoted-printable

"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message =
news:53d62848-294c-4264-80f3-68e772536ce4@i24g2000prf.googlegroups.com...=

>On Nov 22, 8:43 pm, Stray Dog <sdog2...@sdf.lonestar.org> wrote:
?> Despite what at least one other person responding to this said, I can =
rest
>> assure you that if you run a doubler/multiplier stage even in a =
linear
>> mode, AND if you tune the output of that stage to the multiple =
harmonic,
>> you will definitely get output at that harmonic frequency which is
>> stronger than the input drive voltage.
>
>Huh? No way... you MUST have non-linearities to make a doubler.

Actually you do not need any nonlinearity to make a doubler (quadrupler, =
etc.).

Assume you have two Class B (or AB) stages that are driven in push-pull. =
 The outputs are connected in parallel.  And to make things even more =
linear, let each stage have a resistive load.  Each stage will produce a =
linearly amplified (but inverted) version of the input signal FOR THE =
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POSITIVE HALF of the driving waveform only. Being driven 180 degrees =
out of phase with the input signal, the second stage will produce a =
linearly amplified but (again inverted) version of the input signal FOR =
THE NEGATIVE HALF of the driving waveform. Both outputs will have a DC =
offset of the plate (collector, drain) voltage.

The resultant waveform with the outputs in parallel will look like much =
like a full wave rectified version of the input signal subtracted from =
the plate voltage. To express this mathematically, let the input signal =
be expressed as:

Vin =3D A sin(wt)

Now let the voltage gain of each stage be "-k" and the plate voltage be =
"B". The resultant waveform of the two stages connected in parallel =
will be:

Vout =3D B - abs[A*k sin(wt)]   where "abs" is the absolute value

Vout =3D B - A*k sin(wt)   for   0 < wt < Pi   and
=3D B + A*k sin(wt)   for   Pi < wt > 2Pi or alternately =
for -Pi < wt <0

We can then calculate the Fourier series of this waveform to determine =
its spectrum. I will not present the calculations here as it is too =
difficult to show the integration over defined integrals using only =
plain text (and I doubt many readers will have math fonts anyway). If =
you wish to see the math for the Fourier series for a number of =
functions, read:
http://www.maths.qmul.ac.uk/~agp/calc3/notes2.pdf or
http://www.physics.hku.hk/~phys2325/notes/chap7.doc.

Vout =3D B - 2*A*K/Pi * [1 - SUMMATION {2*cos(nwt)/(n*n - 1)] for =
n=3D2, 4, 6, 8...

Note that the original frequency has been eliminated and that only even =
order harmonics are present, and that the amplitudes drop off quite =
rapidly. For example, the fourth harmonic will be one fifth of the =
second harmonic.=20

For those that need a simplified explanation of Fourier series, Don =
Lancaster wrote a good article that can be found at:
http://www.tinaja.com/glib/muse90.pdf. I always thought Don had a ham =
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In a real implementation of this multiplier, a tuned circuit would be =
used as the plate load. The Q of this tuned circuit will assure that =
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need to be well balanced if cancellation of odd harmonics and the =
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73, Dr. Barry L. Ornitz WA4VZQ

```
POSTSCRIPT:=20

Now let me describe how it is possible to produce ONLY the second =
harmonic.  Instead of using two Class B or AB stages, it is possible to =
use triodes operating where their plate current is proportional to the =
square of the grid voltage.  Driving the two such stages in push-pull =
with the outputs in parallel with a resistive load, the output waveform =
will be:

    Vout =3D B - A*A*k sin(wt)*sin(wt)

Using a trigonometric identity {see:
http://en.wikipedia.org/wiki/List_of_trigonometric_identities},
  =20
    sin(x)*sin(x) =3D sin(x)^2 =3D 0.5[1-cos(2x)]

thus    Vout =3D B - A*A*K/2 + A*A*k/2 cos(2wt)

This shows that only the second harmonic is found at the output.=20


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face=3D"Courier New">briangriffey@sbcglobal.net</FONT></A><FONT=20
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<DIV><FONT face=3D"Courier New">&gt;On Nov 22, 8:43 pm, Stray Dog =
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href=3D"mailto:sdog2...@sdf.lonestar.org"><FONT=20
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<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">&nbsp;&nbsp;&nbsp; Vin =3D A =
sin(wt)</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">Now let the voltage gain of each stage =
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<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">&nbsp;&nbsp;&nbsp; Vout =3D B - abs[A*k=20
sin(wt)]&nbsp;&nbsp;&nbsp;&nbsp; where "abs" is the absolute =
value</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">&nbsp;&nbsp;&nbsp; Vout =3D B - A*k=20
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sin(wt)&nbsp;&nbsp;&nbsp;&nbsp; for&nbsp;&nbsp;&nbsp;&nbsp; 0 &lt; wt =
&lt;=20
Pi&nbsp;&nbsp; and</FONT></DIV>
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New">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;=3D B +=20
A*k sin(wt)&nbsp;&nbsp;&nbsp;&nbsp; for&nbsp;&nbsp;&nbsp;&nbsp;Pi &lt; =
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<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">We can then&nbsp;calculate the Fourier =
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cs.hku.hk/~phys2325/notes/chap7.doc">http://www.maths.qmul.ac.uk/~agp/cal=
c3/notes2.pdf</A>&nbsp;or</FONT></DIV>
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href=3D"http://www.physics.hku.hk/~phys2325/notes/chap7.doc">http://www.p=
hysics.hku.hk/~phys2325/notes/chap7.doc</A>.</FONT></U><FONT=20
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<DIV><FONT face=3D"Courier New">&nbsp; Vout =3D B - 2*A*K/Pi * [1 - =
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<DIV><FONT face=3D"Courier New"><A=20
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<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
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multiplier, a=20
tuned circuit would be used as the plate load.&nbsp; The Q of this tuned =
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<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">&nbsp;&nbsp;&nbsp; 73, Dr. Barry L. =
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WA4VZQ</FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">POSTSCRIPT: </FONT></DIV>
<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
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to produce=20
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<DIV><FONT face=3D"Courier New"></FONT>&nbsp;</DIV>
<DIV><FONT face=3D"Courier New">&nbsp;&nbsp;&nbsp; Vout =3D B - A*A*k=20
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<DIV><FONT face=3D"Courier New"><A=20
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/DIV>
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From: Bill Janssen <billj@ieee.org>
Reply-To: Bill Janssen <billj@ieee.org>
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Doubling
References: <gg7qs402stp@news1.newsguy.com>
<Pine.NEB.4.64.0811230222280.12668@sdf.lonestar.org>
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Organization: Frontier
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> driven 180 degrees out of phase with the input signal, the second
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> stage will produce a linearly amplified but (again inverted) version
> of the input signal FOR THE NEGATIVE HALF of the driving waveform.
> Both outputs will have a DC offset of the plate (collector, drain)
> voltage.

Class B or even Class AB in the circuit you described are non-linear.
Try that circuit
with Class A biasing.

Bill K7NOM

>
> The resultant waveform with the outputs in parallel will look like
> much like a full wave rectified version of the input signal subtracted
> from the plate voltage. To express this mathematically, let the input
> signal be expressed as:
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>   Vout = B - abs[A*k sin(wt)]   where "abs" is the absolute value
>
>   Vout = B - A*k sin(wt)   for   0 < wt < Pi   and
>   = B + A*k sin(wt)   for   Pi < wt > 2Pi or
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> We can then calculate the Fourier series of this waveform to determine
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> thus   Vout = B - A*A*K/2 + A*A*k/2 cos(2wt)
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X-Google-Thread: fc2a5,ffb4995423606c03
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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From: "NoSPAM" <unknown@nospam.org>
Newsgroups: rec.radio.amateur.homebrew
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References: <gg7qs402stp@news1.newsguy.com>
<Pine.NEB.4.64.0811230222280.12668@sdf.lonestar.org>
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<6cj1l.8926$5P1.7597@newsfe13.iad> <nSj1l.8928$5P1.2861@newsfe13.iad>
In-Reply-To: <nSj1l.8928$5P1.2861@newsfe13.iad>
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Date: Sun, 14 Dec 2008 23:27:11 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1845

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>> <mailto:briangriffey@sbcglobal.net>> wrote in message
>> news:53d62848-294c-4264-80f3-68e772536ce4@i24g2000prf.googlegroups.com...
>> >On Nov 22, 8:43 pm, Stray Dog <sdog2...@sdf.lonestar.org
>> <mailto:sdog2...@sdf.lonestar.org>> wrote:
>> ?> Despite what at least one other person responding to this said, I can
>> rest
>> >> assure you that if you run a doubler/multiplier stage even in a
>> >> linear
>> >> mode, AND if you tune the output of that stage to the multiple
>> harmonic,
>> >> you will definitely get output at that harmonic frequency which is
>> >> stronger than the input drive voltage.
>> >
>> >Huh? No way... you MUST have non-linearities to make a doubler.
>>  Actually you do not need any nonlinearity to make a doubler
>> (quadrupler, etc.).
>>  Assume you have two Class B (or AB) stages that are driven in
>> push-pull.  The outputs are connected in parallel.  And to make things
>> even more linear, let each stage have a resistive load.  Each stage will
>> produce a linearly amplified (but inverted) version of the input signal
>> FOR THE POSITIVE HALF of the driving waveform only.  Being driven 180
>> degrees out of phase with the input signal, the second stage will
>> produce a linearly amplified but (again inverted) version of the input
>> signal FOR THE NEGATIVE HALF of the driving waveform.  Both outputs will
>> have a DC offset of the plate (collector, drain) voltage.
> Class B or even Class AB in the circuit you described are non-linear. Try
> that circuit
> with Class A biasing.
>
> Bill K7NOM


All that is really required is that the active devices have a different
gain with positive input signals than with negative input signals.  This is
easily achieved with Class B and Class AB stages.  As long as both stages
are identical the fundamental and odd order harmonics will cancel.  You are
```

correct that with two Class A stages where the gain is identical for either polarity of input, the output signal will perfectly cancel. To make the method work here, you could synchronously switch the input signal between two perfectly linear stages. My point was that a full-wave rectified signal contains only even order harmonics.

In the real world, as Stray Dog pointed out, ALL amplifier stages are nonlinear to some degree. The reason that Class AB and B amplifiers are considered linear RF amplifiers is that the tuned circuit on the output supplies supplies the "missing half" of the waveform. Without the tuned circuit, harmonics of the 2nd, 4th, 6th, etc. order as well as the fundamental are present. Odd order harmonics are only found if the gain is nonlinear for positive input signals. The tuned output stage passes the fundamental and suppresses the harmonics.

Thanks for pointing this out, Bill.

    73, Barry WA4VZQ

```
From -3816332024611553817
X-Google-Thread: fc2a5,ffb4995423606c03
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
i18g2000prf.googlegroups.com!not-for-mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Doubling
Date: Mon, 15 Dec 2008 06:16:29 -0800 (PST)
Organization: http://groups.google.com
Lines: 8
Message-ID: <d2b47540-3d78-46bf-8a1f-e981ad77d300@i18g2000prf.googlegroups.com>
References: <gg7qs402stp@news1.newsguy.com>
<Pine.NEB.4.64.0811230222280.12668@sdf.lonestar.org>
     <53d62848-294c-4264-80f3-68e772536ce4@i24g2000prf.googlegroups.com>
     <6cj1l.8926$5P1.7597@newsfe13.iad> <nSj1l.8928$5P1.2861@newsfe13.iad>
     <B0l1l.1290$fv3.794@newsfe06.iad>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229350589 14966 127.0.0.1 (15 Dec 2008 14:16:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 15 Dec 2008 14:16:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i18g2000prf.googlegroups.com; posting-host=216.203.30.4;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1549
```

On Dec 14, 10:27=A0pm, "NoSPAM" <unkn...@nospam.org> wrote:

> >> =A0Actually you do not need any nonlinearity to make a doubler
> >> (quadrupler, etc.).

You mean to tell me that you take a clean sine wave... pass it through... say a single-ended class A amp... and you can put a tank on the output of that amplifier... and tune for a harmonic? You will get nothing.

From 6233194758804463901
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s9g2000prm.googlegroups.com!not-for-mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
Date: Mon, 15 Dec 2008 08:49:27 -0800 (PST)
Organization: http://groups.google.com
Lines: 5
Message-ID: <e02f2c41-57c2-4120-b031-add44d224d8d@s9g2000prm.googlegroups.com>
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
<MXf1l.5628$hs1.3621@newsfe04.iad>
NNTP-Posting-Host: 97.95.43.124
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1229359774 9369 127.0.0.1 (15 Dec 2008 16:49:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 15 Dec 2008 16:49:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s9g2000prm.googlegroups.com; posting-host=97.95.43.124;
posting-account=K8YolwoAAADy0A2iW37gF9k2mykeXqaI
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1550

We cut .090" aluminum sheets all the time... We do it on a 10" table saw with a 6", fine tooth blade, high speed steel, no off set in the teeth, feed it sloooow, and wear ear muffs......

denny - k8do

From 5196561478149384362
X-Google-Thread: fc2a5,8a79679b8ee62eb3,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e18g2000vbe.googlegroups.com!not-for-

mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ionized air cooler
Date: Mon, 15 Dec 2008 08:56:56 -0800 (PST)
Organization: http://groups.google.com
Lines: 19
Message-ID: <ae076a63-47ea-4d56-a8fc-21431790b6ac@e18g2000vbe.googlegroups.com>
NNTP-Posting-Host: 76.226.231.61
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1229360217 28289 127.0.0.1 (15 Dec 2008 16:56:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 15 Dec 2008 16:56:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e18g2000vbe.googlegroups.com; posting-host=76.226.231.61;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1551

Ima seriously looking at cooling with negative ions, I've seen an article once before in Popular Electronics or Radio Electronics.

But on further researching I found this: "If a gentle stream of charged air is directed at a red-hot metal object, the stream of air will cool the object as if its velocity were around 50MPH! Charged air causes anomalous cooling of hot objects and anomalous heating of cold objects.

at this site: http://amasci.com/freenrg/iontest.html

So then I'm using a bug zapper xformer, at about 5,000 VDC. At 10,000VDC it will blow out the flame of my BIC lighter. At these potentials how should one measure the temp?

Except for that High Voltage sizzle it's pretty darn quite.

73
n8zu

From -7648790820578392555
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!p2g2000prf.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw

Date: Mon, 15 Dec 2008 10:11:37 -0800 (PST)
Organization: http://groups.google.com
Lines: 26
Message-ID: <70e99ceb-4497-4cd3-9e2b-6bd633b4dbc8@p2g2000prf.googlegroups.com>
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229364698 24020 127.0.0.1 (15 Dec 2008 18:11:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 15 Dec 2008 18:11:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p2g2000prf.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1552

On Dec 14, 4:27=A0pm, JIMMIE <jimmi...@gmail.com> wrote:
> I have some door kick panels, some brass and a couple of Al ones. I
> have used these before to make enclosures but in the past I always cut
> them with a reciprocating saw then did a lot of filing to get the
> edges straight and pretty. I was wondering if I could cut these using
> my table saw. The motor is sealed so I don't have to worry about
> getting metal shavings in it. Anyone here ever done this before. If so
> what kind of blade did you use? Were there any special techniques you
> applied?

Fine-toothed circular saw blade made for cutting metal works wonders
on not just aluminum and brass but also many hard plastics.

You will probably not find the optimal blade at your local home depot
or hardware store. Check out mcmaster.com

If you can clamp the material or build a custom fence to hold down
thin material you will greatly reduce the vibration and noise.

Ear and eye protection is a must.

Believe it or not, I have seen aluminum machining done with a 2 or
2.25 HP electric router on long (20, 30 foot) bars for cutting slots
etc.

Tim.

From 3935807260271732472
X-Google-Thread: fc2a5,ffb4995423606c03
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2!news.cse.ohio-

```
state.edu!pitt.edu!egsner!news.cirr.com!sdf.lonestar.org!sdog2008
From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Doubling
Date: Mon, 15 Dec 2008 19:27:08 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 132
Message-ID: <Pine.NEB.4.64.0812151908400.23962@sdf.lonestar.org>
References: <gg7qs402stp@news1.newsguy.com>
<Pine.NEB.4.64.0811230222280.12668@sdf.lonestar.org>
 <53d62848-294c-4264-80f3-68e772536ce4@i24g2000prf.googlegroups.com>
 <6cj1l.8926$5P1.7597@newsfe13.iad> <nSj1l.8928$5P1.2861@newsfe13.iad>
 <B0l1l.1290$fv3.794@newsfe06.iad>
NNTP-Posting-Host: sdf.lonestar.org
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: chessie.cirr.com 1229369235 4840 192.94.73.1 (15 Dec 2008 19:27:15 GMT)
X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Mon, 15 Dec 2008 19:27:15 +0000 (UTC)
In-Reply-To: <B0l1l.1290$fv3.794@newsfe06.iad>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1553


On Sun, 14 Dec 2008, NoSPAM wrote:

> Date: Sun, 14 Dec 2008 23:27:11 -0500
> From: NoSPAM <unknown@nospam.org>
> Newsgroups: rec.radio.amateur.homebrew
> Followup-To: rec.radio.amateur.homebrew
> Subject: Re: Doubling
>
> "Bill Janssen" <billj@ieee.org> wrote in message
> news:nSj1l.8928$5P1.2861@newsfe13.iad...
>> NoSPAM wrote:
>>> "Telstar Electronics" <briangriffey@sbcglobal.net
>>> <mailto:briangriffey@sbcglobal.net>> wrote in message
>>> news:53d62848-294c-4264-80f3-68e772536ce4@i24g2000prf.googlegroups.com...
>>> >On Nov 22, 8:43 pm, Stray Dog <sdog2...@sdf.lonestar.org
>>> <mailto:sdog2...@sdf.lonestar.org>> wrote:
>>> ?> Despite what at least one other person responding to this said, I can
>>> rest
>>> >> assure you that if you run a doubler/multiplier stage even in a >>
>>> linear
>>> >> mode, AND if you tune the output of that stage to the multiple
>>> harmonic,
>>> >> you will definitely get output at that harmonic frequency which is
>>> >> stronger than the input drive voltage.
>>> >
>>> >Huh? No way... you MUST have non-linearities to make a doubler.
>>>  Actually you do not need any nonlinearity to make a doubler (quadrupler,
>>> etc.).
>>>  Assume you have two Class B (or AB) stages that are driven in push-pull.
>>> The outputs are connected in parallel.  And to make things even more
```

>>> linear, let each stage have a resistive load. Each stage will produce a
>>> linearly amplified (but inverted) version of the input signal FOR THE
>>> POSITIVE HALF of the driving waveform only. Being driven 180 degrees out
>>> of phase with the input signal, the second stage will produce a linearly
>>> amplified but (again inverted) version of the input signal FOR THE
>>> NEGATIVE HALF of the driving waveform. Both outputs will have a DC offset
>>> of the plate (collector, drain) voltage.
>> Class B or even Class AB in the circuit you described are non-linear. Try
>> that circuit
>> with Class A biasing.
>>
>> Bill K7NOM
>
>
> All that is really required is that the active devices have a different gain
> with positive input signals than with negative input signals. This is easily
> achieved with Class B and Class AB stages. As long as both stages are
> identical the fundamental and odd order harmonics will cancel. You are
> correct that with two Class A stages where the gain is identical for either
> polarity of input, the output signal will perfectly cancel. To make the
> method work here, you could synchronously switch the input signal between two
> perfectly linear stages. My point was that a full-wave rectified signal
> contains only even order harmonics.
>
> In the real world, as Stray Dog pointed out, ALL amplifier stages are
> nonlinear to some degree. The reason that Class AB and B amplifiers are
> considered linear RF amplifiers is that the tuned circuit on the output
> supplies supplies the "missing half" of the waveform. Without the tuned
> circuit, harmonics of the 2nd, 4th, 6th, etc. order as well as the
> fundamental are present. Odd order harmonics are only found if the gain is
> nonlinear for positive input signals. The tuned output stage passes the
> fundamental and suppresses the harmonics.
>
> Thanks for pointing this out, Bill.
>
>   73, Barry WA4VZQ
>

I'll just add a footnote. When I actually built a few "buffer" amplifiers (tube jobs, 12BY7s, 6AG7s, etc), and for the hell of it, hooked up my scope (an old Tektronix solid state scope with one microsecond/div timebase, max) and actually looked at the sine wave (it looked 'nice' by the way) and then tuned the air variable through both the fundamental or the second harmonic (and I'm talking about 2-3 mHz signal source), I was amazed to be able to easily see the extra "peaks" come out of the "valleys" of the fundamental and I'm running these tubes at zero bias, low plate voltage, too. Look in the tube manuals for any class C tube and they talk about -50 to -70 v, grid negative wrt cathode. Class B and below talk about negative bias much lower but still pretty negative.

Like I said, I was surprised. This _should_ be discussed in the ARRL handbooks (maybe it is, but I couldn't find it [maybe I didn't look hard enough?]) and it would be worth 1-2 pages to show everyone what these signals have in them.

Here is another goodie (true story). R-390 local oscillator (runs 2.4 to 3.4 mHz, single 6BA6 tube). Had it set to about 3 mHz and looking at that "nice" (I have no harmonic meter to measure distortion) sine wave on the scope, and I "loaded down" the oscillator output lead with a tuned circuit and tuned that circuit to about 6 mHz. Guess what? Got double the number of peaks on the scope, just as with the linear amplifier. All calculate out on peaks vs time base divisions. So? Does anyone want to suggest that having the output LC circuit of an LC free-running oscillator tuned to double the frequency of the LC circuit is making it "oscillate" on its second overtone? ;-)

Yeah, I checked resonant frequencies with a GDO on all this stuff, too. I'm not making any of this up.

For the record, I also have an old Knight Kit RF oscillator (100Kc to 400 mHz on 3rd harmonic) and put that into my scope and the waveform looks like crap (but you can pick up the signal on a SW receiver set to where the scale matches the frequency of the oscillator). And, the shape of the crap changes from one end of the band to the other. Also have an old HP audio oscillator (high quality stuff) and it puts out a _very_ 'nice' sine wave no matter where in the range you set the dial (one Hz to 200 kHz).

73 all,

From -7622250958097281368
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet

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X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!l33g2000pri.googlegroups.com!not-for-
mail
From: None <monk36098674@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
Date: Mon, 15 Dec 2008 11:31:09 -0800 (PST)
Organization: http://groups.google.com
Lines: 21
Message-ID: <c6790e14-da87-4846-818a-ea67ef9eb7a5@l33g2000pri.googlegroups.com>
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
NNTP-Posting-Host: 67.150.15.41
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229369469 21272 127.0.0.1 (15 Dec 2008 19:31:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 15 Dec 2008 19:31:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l33g2000pri.googlegroups.com; posting-host=67.150.15.41;
     posting-account=qPmjVAoAAABChxhUT98G1CXn3HdkIPW6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.4)
     Gecko/2008102920 Firefox/3.0.4,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1554

On Dec 14, 1:27=A0pm, JIMMIE <jimmi...@gmail.com> wrote:
> I have some door kick panels, some brass and a couple of Al ones. I
> have used these before to make enclosures but in the past I always cut
> them with a reciprocating saw then did a lot of filing to get the
> edges straight and pretty. I was wondering if I could cut these using
> my table saw. The motor is sealed so I don't have to worry about
> getting metal shavings in it. Anyone here ever done this before. If so
> what kind of blade did you use? Were there any special techniques you
> applied?
>
> It seems like this would save me a lot of finish work if I could do
> it.
>
> Jimmie

For thinner panels I use a large paper cutter that I reinforced the
hinge mount. This also cuts larger circuit board. For smaller circuit
board I use a tile cutter I picked up at a garage sale for a buck.

=20
Wayne kd7rur


From 8067063451942322604
X-Google-Thread: fc2a5,ffb4995423606c03
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe06.iad.POSTED!7564ea0f!not-for-mail
From: "NoSPAM" <unknown@nospam.org>
Newsgroups: rec.radio.amateur.homebrew
Followup-To: rec.radio.amateur.homebrew
References: <gg7qs402stp@news1.newsguy.com>
<Pine.NEB.4.64.0811230222280.12668@sdf.lonestar.org>
<53d62848-294c-4264-80f3-68e772536ce4@i24g2000prf.googlegroups.com>
<6cj1l.8926$5P1.7597@newsfe13.iad> <nSj1l.8928$5P1.2861@newsfe13.iad>
<B0l1l.1290$fv3.794@newsfe06.iad> <d2b47540-3d78-46bf-8a1f-
e981ad77d300@i18g2000prf.googlegroups.com>
In-Reply-To: <d2b47540-3d78-46bf-8a1f-e981ad77d300@i18g2000prf.googlegroups.com>
Subject: Re: Doubling
Lines: 28
MIME-Version: 1.0
Content-Type: text/plain;
format=flowed;
charset="iso-8859-1";
reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
Message-ID: <zty1l.1382$fv3.804@newsfe06.iad>
NNTP-Posting-Host: jnibogphckphemgkkgknfdakiclijcld
X-Complaints-To: abuse@charter.net
X-Trace:
emlnjhpjaknjmmohfkhgnhldfhiklkalfikjdelanncjdiedjnibogphckphemgkfllejjhdijjjcbpjed
fglgncipploddnogcofbnhmhlejmogegkjmjldceddcfmpchpfalgfbjoakmml
NNTP-Posting-Date: Mon, 15 Dec 2008 19:45:35 UTC
Date: Mon, 15 Dec 2008 14:45:31 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1555

"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
news:d2b47540-3d78-46bf-8a1f-e981ad77d300@i18g2000prf.googlegroups.com...

> You mean to tell me that you take a clean sine wave... pass it
> through... say a single-ended class A amp... and you can put a tank on
> the output of that amplifier... and tune for a harmonic? You will get
> nothing.

Class A means that plate current is flowing throughout the entire cycle of the input wave with the tube operated between cutoff and saturation. It says nothing about the linearity of the tube's transconductance (plate current as a function of grid voltage). With real devices, the transconductance curve is ALWAYS nonlinear to some degree, producing distortion (and harmonics). As you decrease the drive to a single-ended Class A amplifier, you are working on a smaller and smaller portion portion of the transconductance curve which decreases distortion. In the limit where only an infinitesimal part of the transconductance curve is used, you will get no distortion and no harmonics. Of course, in this situation the tube produces NO output.while drawing current from the power supply.

The scheme that I was talking about, known as a push-push doubler, generally uses the tubes operated in Class B although AB operation will work too, but it produces less harmonics. The real advantage of a push-push doubler is that odd order harmonics and the fundamental cancel out, making the resultant waveform easier to filter.

73, Barry WA4VZQ

From -5688780366728921738
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195.208.113.67.MISMATCH!goblin1!goblin.stu.neva.ru!egsner!news.cirr.com!
sdf.lonestar.org!sdog2008
From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Doubling
Date: Mon, 15 Dec 2008 19:46:23 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 84
Message-ID: <Pine.NEB.4.64.0812151929510.23962@sdf.lonestar.org>
References: <gg7qs402stp@news1.newsguy.com>
<Pine.NEB.4.64.0811230222280.12668@sdf.lonestar.org>
<53d62848-294c-4264-80f3-68e772536ce4@i24g2000prf.googlegroups.com>
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Mime-Version: 1.0
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X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Mon, 15 Dec 2008 19:46:29 +0000 (UTC)
In-Reply-To: <d2b47540-3d78-46bf-8a1f-e981ad77d300@i18g2000prf.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:1853

This message is in MIME format. The first part should be readable text,
while the remaining parts are likely unreadable without MIME-aware tools.

--0-1295698328-1229370383=:23962
Content-Type: TEXT/PLAIN; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: QUOTED-PRINTABLE

On Mon, 15 Dec 2008, Telstar Electronics wrote:

> Date: Mon, 15 Dec 2008 06:16:29 -0800 (PST)
> From: Telstar Electronics <briangriffey@sbcglobal.net>

```
> Newsgroups: rec.radio.amateur.homebrew
> Subject: Re: Doubling
>=20
> On Dec 14, 10:27=A0pm, "NoSPAM" <unkn...@nospam.org> wrote:
>>>> =A0Actually you do not need any nonlinearity to make a doubler
>>>> (quadrupler, etc.).
>
> You mean to tell me that you take a clean sine wave...

You might want to consider qualifying your thinking on this by setting a=20
specification for harmonic distortion (in other words, you might need to=20
consider how much of that "clean sine wave" signal has other components=20
in it, including non-harmonic componentes)

  pass it
> through... say a single-ended class A amp...

You might also want to consider, here, too, how much harmonic distortion=20
THAT class A amplifier also causes which makes a contribution to the=20
output.

  and you can put a tank on
> the output of that amplifier... and tune for a harmonic? You will get
> nothing.

You might even more also want to consider that any tuned circuit will pass=
=20
energy not at the resonance of that tuned circuit.

You would probably contribute to your own enlightenment if you actually=20
did some real experiments on this. It does not take long to do.

Back when I was an undergraduate student with major in physics (BS, 1966),=
=20
I worked in a Mossbauer Effect spectrometer lab and we built most of our=20
equipment (dual delay line pulse amplifiers, regulated DC power supplies,=
=20
repairing survey meters, etc) my boss had me build a waveform converter=20
that used a network of resistors and diodss to convert a sawtooth waveform=
=20
to sine wave and he was doing this because the book he got the circuit=20
from said that there would be less than 1% harmonic distortion and he was=
=20
interested in that specification for the spectrometer drives and all of=20
our commercial high quality signal generators were worse in that=20
specification, particulary at the very low frequencies we ran the drives=20
at (less than one cycle per second).

So, you have to define what you mean by "clean sine wave." But, I'll also
say that, no, you will not get nothing if you tune to the second harmonic
and have a linear amplifier (unless, maybe, you have a _perfect_ sine wave
and a _perfect_ linear amplifier [the rest of you guys might want to commen=
t
```

on this <yeah, I know about Fourier analysis, too>]).

--0-1295698328-1229370383=:23962--

From 2202572533524007473
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X-Google-Language: ENGLISH,ASCII-7-bit
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news.motzarella.org!motzarella.org!news.motzarella.org!not-for-mail
From: Just Me <demo@crat.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
Date: Mon, 15 Dec 2008 17:29:28 -0500
Organization: A noiseless patient Spider
Lines: 23
Message-ID: <3fmdk4hjg58t5oihhrtlad4nq21uvl0h1c@4ax.com>
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
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X-Complaints-To: Please send complaints to abuse@motzarella.org with full headers
NNTP-Posting-Date: Mon, 15 Dec 2008 22:29:40 +0000 (UTC)
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Xref: g2news1.google.com rec.radio.amateur.homebrew:1557

On Sun, 14 Dec 2008 13:27:36 -0800 (PST), JIMMIE <jimmie68@gmail.com>
wrote:

>I have some door kick panels, some brass and a couple of Al ones. I
>have used these before to make enclosures but in the past I always cut

>them with a reciprocating saw then did a lot of filing to get the
>edges straight and pretty. I was wondering if I could cut these using
>my table saw. The motor is sealed so I don't have to worry about
>getting metal shavings in it. Anyone here ever done this before. If so
>what kind of blade did you use? Were there any special techniques you
>applied?
>
>It seems like this would save me a lot of finish work if I could do
>it.
>
>Jimmie

I have used composition blades for aluminum/steel/copper sheet, angle,
tubing and rods with good luck.

Wear eye protection and hearing protection!

The cut edges will be sharp, file or sand until smooth.

From -7563402058187305099
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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From: "Larry Gauthier \(K8UT\)" <MyCallsign@ARRL.NET>
Newsgroups: rec.radio.amateur.homebrew
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
Subject: Re: Cutting non ferrous metals with a table saw
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <EdB1l.16656$uS1.14886@newsfe19.iad>
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X-Trace: alfcnpnhbafhfffefkhgnhldfhiklkalnhnbllkhoohdjbkclfofhnglmmpaloopkiofidakjcepaaimbkkgfcnooccdefcilphifombmffdfhokfgoadiecikgpmglkbgjklipccefckbgb
NNTP-Posting-Date: Mon, 15 Dec 2008 22:53:24 UTC
Date: Mon, 15 Dec 2008 17:53:21 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1558

I bought a non-ferrous metal blade for my power miter saw - works great on
antenna aluminum projects - even built a special jig for cutting vertical
"slits" in aluminum tubing.

--
-larry

```
K8UT
"JIMMIE" <jimmie68@gmail.com> wrote in message
news:2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com...
>I have some door kick panels, some brass and a couple of Al ones. I
> have used these before to make enclosures but in the past I always cut
> them with a reciprocating saw then did a lot of filing to get the
> edges straight and pretty. I was wondering if I could cut these using
> my table saw. The motor is sealed so I don't have to worry about
> getting metal shavings in it. Anyone here ever done this before. If so
> what kind of blade did you use? Were there any special techniques you
> applied?
>
> It seems like this would save me a lot of finish work if I could do
> it.
>
> Jimmie




From 6643735957144960
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Path: g2news1.google.com!news2.google.com!news.glorb.com!news.tele.dk!
feed118.news.tele.dk!dotsrc.org!filter.dotsrc.org!news.dotsrc.org!not-for-mail
From: "Ebbe \(7000\)" <es44(snabela)pc[punktum]dk>
Newsgroups: rec.radio.amateur.homebrew
References: <83d41cda-dca7-4709-adce-86dc13148353@f24g2000vbf.googlegroups.com>
Subject: Re: Reference oscillators
Date: Tue, 16 Dec 2008 00:16:46 +0100
X-Priority: 3
X-MSMail-Priority: Normal
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X-Complaints-To: staff@sunsite.dk
Xref: g2news1.google.com rec.radio.amateur.homebrew:1559

K7ITM wrote:
|| Hi all,
||
|| Over the past few years, I've had the opportunity to save some decent
|| reference oscillators from being thrown away, by removing them from
|| scrap boards.  They're typically good stability (temp. compensated),
|| and reasonably low phase noise.  I have 10MHz, 20MHz and 100MHz, and
|| a couple others.  Some have a voltage control input.  All are 5V
```

|| (but I know some will work down to 3.3V), logic output (but "logic"
|| means PECL for the 100MHz ones). I'd be happy to send one or two to
|| folk who have a specific reasonably immediate need for such a beast.
|| If you're interested, drop me an email to let me know exactly what
|| you're looking for and why you want it. I'll let you know if you
|| made the cutoff. I may ask for shipping costs if I can't figure out
|| how to send them cheaply enough but packaged safely. The
|| oscillators will be free to good homes, though.
||
|| Cheers,
|| Tom

Really generous offer, unfortunately i'm too far away to take advantage of
your nice gesture :-(
Funny thing, it feels like i live in a place where things like that is
impossible to get near, (unless i buy via the internet, and at a price that
makes it unattractive to me).

Have a merry Christmas and a happy new year.
oz1esc, Ebbe

From -5556158705969250371
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!v31g2000vbb.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
Date: Mon, 15 Dec 2008 19:08:54 -0800 (PST)
Organization: http://groups.google.com
Lines: 39
Message-ID: <be4b2c12-e533-4a39-8a69-26825ea54560@v31g2000vbb.googlegroups.com>
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
     <EdB1l.16656$uS1.14886@newsfe19.iad>
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     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1560

On Dec 15, 5:53=A0pm, "Larry Gauthier \(K8UT\)" <MyCalls...@ARRL.NET>
wrote:
> I bought a non-ferrous metal blade for my power miter saw - works great o=
n
> antenna aluminum projects - even built a special jig for cutting vertical
> "slits" in aluminum tubing.
>
> --
> -larry
> K8UT"JIMMIE" <jimmi...@gmail.com> wrote in message
>
> news:2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com...
>
>
>
> >I have some door kick panels, some brass and a couple of Al ones. I
> > have used these before to make enclosures but in the past I always cut
> > them with a reciprocating saw then did a lot of filing to get the
> > edges straight and pretty. I was wondering if I could cut these using
> > my table saw. The motor is sealed so I don't have to worry about
> > getting metal shavings in it. Anyone here ever done this before. If so
> > what kind of blade did you use? Were there any special techniques you
> > applied?
>
> > It seems like this would save me a lot of finish work if I could do
> > it.
>
> > Jimmie- Hide quoted text -
>
> - Show quoted text -

Well, I tried using a carbide tipped blade to cut some thick aluminum
plate and will never do that again. There is an extreme tendency
toward kick back. The same blade performed well for cutting Al tubing
in my radial arm saw. I think the problem is mostly becase of the way
the angle at which the blade is ground. Perhaps installing the blade
backwards may solve this problem.

Jimmie

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From: "NoSPAM" <unknown@nospam.org>
Newsgroups: rec.radio.amateur.homebrew
Followup-To: rec.radio.amateur.homebrew
References: <gg7qs402stp@news1.newsguy.com>
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NNTP-Posting-Date: Tue, 16 Dec 2008 04:29:33 UTC
Date: Mon, 15 Dec 2008 23:29:35 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1561
```

"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
news:d2b47540-3d78-46bf-8a1f-e981ad77d300@i18g2000prf.googlegroups.com...

> You mean to tell me that you take a clean sine wave... pass it
> through... say a single-ended class A amp... and you can put a tank on
> the output of that amplifier... and tune for a harmonic? You will get
> nothing.

Of course you will. No active device is perfect.

I decided to illustrate the fact that a single ended triode operated in Class A can produce harmonics. For a tube, I used a 6C4 (1/2 of a 12AU7) operated with 300 volts on the plate, a grid bias voltage of -7 volts, driven with a pure sine wave of 14 volts peak-to-peak. The high driving voltage was chosen to illustrate my earlier points, but the stage _IS_ operated Class A with the plate current between cutoff and saturation.

Since the "rec"groups are not supposed to have binaries in them, I placed the graphics as PDF attachments to a post entitled "Harmonics generated by a Class A stage" in the "alt.binaries.ham-radio" newsgroup. If anyone wishes to see these curves and their newsgroup provider does not provide this group, I apologize. I believe Google Groups may not provide binaries, so I suggest getting a real newsreader and a good newsfeed.

The first graph is entitled "Transconductance.pdf" and it shows the plate current as a function of the grid voltage. This data was obtained directly from the General Electric datasheet, ET-T1604 dated March, 1960. Since Excel stinks when plotting and doing calculations with data that is not best expressed in a bar chart, I used an evaluation copy of PSIPlot from Poly Software International (http://www.polysoftware,com) to generate the plots. {Real scientists and engineers never use a bar chart except when making presentations to brain challenged management!} :-)

The driving waveform and the resultant plate current waveform are shown in the graph entitled "Waveforms.pdf". The obvious flattening is due to cutoff being approached at the crest of the driving waveform. After all, the transconductance curve is not perfectly a straight line.

Finally, the spectrum of current waveform is plotted in the graph called "Spectrum.pdf". The spectrum has been normalized with respect to the DC output. The scale of the X-axis is slightly off but it was not worth my time correcting it. The fundamental is about 60 to 70 percent of the DC output, and the second harmonic is about 40 percent of the DC output. All higher harmonic are less than one percent of the DC output except the fifth. Higher harmonics are still greater than one tenth of a percent of the DC up to the _13th_ harmonic. Harmonics beyond the 14th are still readily measured.

In conclusion, even single ended Class A amplifiers generate harmonics. If a lower driving voltage were used, the amplitudes of the harmonics would be reduced, but the fundamental would also be reduced. Please follow-up to the "rec.radio.amateur.homebrew" newsgroup. Golden-eared audiophools will be ignored.

73, Dr. Barry L. Ornitz WA4VZQ

From -2232054139811795958
X-Google-Thread: fc2a5,ffb4995423606c03
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Doubling
Message-ID: <ommek4h6dubdsklehatlb7ga60kqlnv6um@4ax.com>
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X-Complaints-To: newsmaster@saunalahti.com
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NNTP-Posting-Date: Tue, 16 Dec 2008 09:47:21 EET
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:1859

On Mon, 15 Dec 2008 23:29:35 -0500, "NoSPAM" <unknown@nospam.org>
wrote:

>"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
>news:d2b47540-3d78-46bf-8a1f-e981ad77d300@i18g2000prf.googlegroups.com...
>
>> You mean to tell me that you take a clean sine wave... pass it
>> through... say a single-ended class A amp... and you can put a tank on
>> the output of that amplifier... and tune for a harmonic? You will get
>> nothing.
>
>Of course you will. No active device is perfect.
>
>I decided to illustrate the fact that a single ended triode operated in
>Class A can produce harmonics. For a tube, I used a 6C4 (1/2 of a 12AU7)
>operated with 300 volts on the plate, a grid bias voltage of -7 volts,
>driven with a pure sine wave of 14 volts peak-to-peak. The high driving
>voltage was chosen to illustrate my earlier points, but the stage _IS_
>operated Class A with the plate current between cutoff and saturation.

Did you bypass the cathode resistor or not ?

All active elements are more or less nonlinear, so if you need more or
less linear amplification, you need to use feedback/feedforward.

A non-bypassed cathode/emitter resistor will greatly improve the
linearity of a single stage.

Paul OH3LWR

From 6878205054953975343
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Message-ID: <mVHHgPEIM2RJFADl@ifwtech.co.uk>

Date: Tue, 16 Dec 2008 08:12:56 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
 <EdB1l.16656$uS1.14886@newsfe19.iad>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<5mwkzTBRO5sETFKkGhyHHc+YXH>)
Lines: 24
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 91.84.209.172
X-Trace: sv3-
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4iBVsn0iYUqAzJ9eDjhALT4Qg54aL+QL0m0d+aDh5TFBHdtzHg+KHiGXV5b3P69QneXotGXCQw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1563

Larry Gauthier (K8UT) wrote:
>I bought a non-ferrous metal blade for my power miter saw - works great
>on antenna aluminum projects - even built a special jig for cutting
>vertical "slits" in aluminum tubing.

At last - someone using the right tool for the job! Circular saw blades for non-ferrous metal cutting are specially designed to reduce the dangers of jammed blades and flying metal.

As well as having many small teeth, the front cutting edge of each tooth slopes slightly backward to avoid digging into the soft metal (known as "negative rake"). Also the top profile of each tooth is designed to remove the metal as small chips.

Even negative rake blades are not jam-proof, especially when cutting through tubing. Half-way through the cut, it becomes very easy to hook a tooth into the wall of the tube, and BANG - it jams. Larry is very right to be using a jig to hold everything very firmly.

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From 5250665965765113937
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe08.iad.POSTED!7564ea0f!not-for-mail
From: "Larry Gauthier \(K8UT\)" <MyCallsign@ARRL.NET>
Newsgroups: rec.radio.amateur.homebrew
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
<EdB1l.16656$uS1.14886@newsfe19.iad> <mVHHgPEIM2RJFADl@ifwtech.co.uk>
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Lines: 40
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <ZyM1l.20458$R43.19431@newsfe08.iad>
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NNTP-Posting-Date: Tue, 16 Dec 2008 11:47:05 UTC
Date: Tue, 16 Dec 2008 06:46:54 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1861

Well <blush> let's not heap too much praise on my solution... someone else told me that this was the best/safest way to go. I clamp everything down before lowering the blade onto it.

One other trick I use to prevent a bunch of metal debris from flying around: my miter saw came with a cheap little "sawdust collector bag" that only catches about 50% of the debris. I remove that bag and attach my shop vac hose to the outlet from the saw. This works great and results in very little debris (I still wear safety glasses and work gloves, of course).
--
-larry
K8UT
"Ian White GM3SEK" <gm3sek@ifwtech.co.uk> wrote in message
news:mVHHgPEIM2RJFADl@ifwtech.co.uk...
> Larry Gauthier (K8UT) wrote:
>>I bought a non-ferrous metal blade for my power miter saw - works great on
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>
> At last - someone using the right tool for the job! Circular saw blades
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>
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> "negative rake"). Also the top profile of each tooth is designed to remove
> the metal as small chips.
>
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> through tubing. Half-way through the cut, it becomes very easy to hook a
> tooth into the wall of the tube, and BANG - it jams. Larry is very right
> to be using a jig to hold everything very firmly.
>
>
> --
>
> 73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
> http://www.ifwtech.co.uk/g3sek

From -4935134002447111013
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Path: g2news1.google.com!news2.google.com!postnews.google.com!
z28g2000prd.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
Date: Tue, 16 Dec 2008 06:28:10 -0800 (PST)
Organization: http://groups.google.com
Lines: 37
Message-ID: <f286a892-c26b-4e87-b474-cfd5318669d2@z28g2000prd.googlegroups.com>
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
     <EdB1l.16656$uS1.14886@newsfe19.iad> <mVHHgPEIM2RJFADl@ifwtech.co.uk>
NNTP-Posting-Host: 75.190.189.120
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NNTP-Posting-Date: Tue, 16 Dec 2008 14:28:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z28g2000prd.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1566

On Dec 16, 3:12=A0am, Ian White GM3SEK <gm3...@ifwtech.co.uk> wrote:
> Larry Gauthier (K8UT) wrote:
> >I bought a non-ferrous metal blade for my power miter saw - works great
> >on antenna aluminum projects - even built a special jig for cutting
> >vertical "slits" in aluminum tubing.
>
> At last - someone using the right tool for the job! Circular saw blades
> for non-ferrous metal cutting are specially designed to reduce the
> dangers of jammed blades and flying metal.
>

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> slopes slightly backward to avoid digging into the soft metal (known as
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> remove the metal as small chips.
>
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> through tubing. Half-way through the cut, it becomes very easy to hook a
> tooth into the wall of the tube, and BANG - it jams. Larry is very right
> to be using a jig to hold everything very firmly.
>
> --
>
> 73 from Ian GM3SEK =A0 =A0 =A0 =A0 'In Practice' columnist for RadCom (RS=
GB)http://www.ifwtech.co.uk/g3sek

I also believe in the right tool for the right job too but when I saw
the $80 USD price tag on the right blade using the wrong one became
more appealing. Also I had read a magazine article on using regular
carbide tipped tools meant for wood to cut non ferrous metal. The
article is WRONG, Its dangerous. I finished cutting my panels with a
jig saw. I lowered the table on drill press to make it flush with my
table saw to make use of it's fench as a guide and installed a mill in
the press. I used the mill to plane the edges of raw cuts. Unless I
ever find the occasion to do small production run this will be the
way I do it from now on.

Jimmie

```
From -9159214581446612978
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newshosting.com!69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!
news.cv.net!not-for-mail
From: "Rick" <ricknj10@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <4fcc0d8f-5a41-46e9-be38-c1619125043f@y18g2000yqn.googlegroups.com>
<dc5059f2-63d7-4818-a518-1d9bb79bd062@y18g2000yqn.googlegroups.com>
<5a_0l.7945$UI2.3187@bignews6.bellsouth.net>
Subject: Re: FA: MOPA 2-Tube Transmitter Instant Junkbox parts assortment
Date: Tue, 16 Dec 2008 09:58:06 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Lines: 30
Message-ID: <4947c1ff$0$20283$607ed4bc@cv.net>
Organization: Optimum Online
NNTP-Posting-Host: 67.82.182.203
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X-Complaints-To: abuse@cv.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:1567

A few years ago someone gave me a box of tube sockets and some 5763s. I always wondered if they were any good. So I built up a sloppy little oscillator, running on 7038 and 22 out of 23 of them oscillated. It takes 17 seconds for a filament to warm up and the circuit to start putting out power.

Ok so what next? I notice in the tube manual, ARRL handbook 1966, that it has 13 watts plate dissipation. Wow that seems like a lot for a little 9 pin tube. So I built another stage next to the oscillator and a little pi network output and drove the heck out of it. Only got 3 watts. Then double checked the voltages since I was running on a variac and lo and behold I only had 5 volts on the filament so cranked her up where she should be and now getting 9 watts into 50 ohms.

Then checked the great W8JI website and see where he put some shaping into his DX60 to clean up the clicks so I looked at my output with a scope with my keyer banging away at the thing and ye Gads, a square wave. So now working on values of a grid block keyer circuit to round off the edges.

Fun stuff.

Added a socket for an 807. Wow, got plenty of drive !! 55 watts out with 600 volts on the plate. 2nd harmonic 45 db down, not too bad. Total money expended to date - $zero.

Anyone like to do something similar? If you need a 5763 and socket just let me know. All I ask is you to really use it, not just throw it in the drawer for some day in the future.

Oh by the way. This is just posted to homebrew, don't need to cross post it to the other newsgroups, too much of that going on. Pick the group that it belongs in and they will find it if they are interested.

73,
Rick K2XT

From -3486281867320085133
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From: Yukio YANO <yano@shaw.ca>
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ionized air cooler
References: <ae076a63-47ea-4d56-a8fc-21431790b6ac@e18g2000vbe.googlegroups.com>
In-Reply-To: <ae076a63-47ea-4d56-a8fc-21431790b6ac@e18g2000vbe.googlegroups.com>
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NNTP-Posting-Date: Tue, 16 Dec 2008 19:12:40 UTC
Date: Tue, 16 Dec 2008 13:12:39 -0600
Xref: g2news1.google.com rec.radio.amateur.homebrew:1568

raypsi wrote:
>    At these
> potentials how should one measure the temp?
>
>  Except for that High Voltage sizzle it's pretty darn quite.
>
> 73
> n8zu
  I just spotted a local xmas advert, for a Infra-red Thermometer   for
~$25.00
Just the ticket for measuring these ticklish situations !
At that price I am tempted !

Yukio YANO



From 233979842345816443
X-Google-Thread: fc2a5,ffb4995423606c03
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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195.208.113.67.MISMATCH!goblin1!goblin.stu.neva.ru!egsner!news.cirr.com!
sdf.lonestar.org!sdog2008
From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Doubling
Date: Tue, 16 Dec 2008 19:16:29 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 74
Message-ID: <Pine.NEB.4.64.0812161916220.14267@sdf.lonestar.org>
References: <gg7qs402stp@news1.newsguy.com>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:1569
```

On Tue, 16 Dec 2008, Paul Keinanen wrote:

> Date: Tue, 16 Dec 2008 09:47:22 +0200
> From: Paul Keinanen <keinanen@sci.fi>
> Newsgroups: rec.radio.amateur.homebrew
> Subject: Re: Doubling
>
> On Mon, 15 Dec 2008 23:29:35 -0500, "NoSPAM" <unknown@nospam.org>
> wrote:
>
>> "Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
>> news:d2b47540-3d78-46bf-8a1f-e981ad77d300@i18g2000prf.googlegroups.com...
>>
>>> You mean to tell me that you take a clean sine wave... pass it
>>> through... say a single-ended class A amp... and you can put a tank on
>>> the output of that amplifier... and tune for a harmonic? You will get
>>> nothing.
>>
>> Of course you will. No active device is perfect.
>>
>> I decided to illustrate the fact that a single ended triode operated in
>> Class A can produce harmonics. For a tube, I used a 6C4 (1/2 of a 12AU7)
>> operated with 300 volts on the plate, a grid bias voltage of -7 volts,
>> driven with a pure sine wave of 14 volts peak-to-peak. The high driving
>> voltage was chosen to illustrate my earlier points, but the stage _IS_
>> operated Class A with the plate current between cutoff and saturation.
>
> Did you bypass the cathode resistor or not ?

I did the same experiment that he did (6C4) only ran the cathod at
chassis, and grid through an RF choke, and 100 vDC on plate, and drove at
about 1/2-1 volt and that is zero bias, no need for cathode cap bypass, and
I got gain and second harmonic.

> All active elements are more or less nonlinear, so if you need more or
> less linear amplification, you need to use feedback/feedforward.
>
> A non-bypassed cathode/emitter resistor will greatly improve the
> linearity of a single stage.

I'm still waiting for any "expert" comments from anyone who would care to
speculate on the contributions, from oscillator harmonic content vs
contribution from harmonic distortion in the amplifier.

> Paul OH3LWR
>

>

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From 6792628980369597013
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s16g2000vbp.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ionized air cooler
Date: Tue, 16 Dec 2008 15:08:05 -0800 (PST)
Organization: http://groups.google.com
Lines: 17
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     <I4T1l.182$Us1.68@newsfe05.iad>
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     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1570
```

> =A0 I just spotted a local xmas advert, for a Infra-red Thermometer =A0 f=
or
> ~$25.00
> Just the ticket for measuring these ticklish situations !
> At that price I am tempted !
>
> Yukio YANO

Hey OM

your right of coarse I seen 'em at harbor freight tools also. I just rememebered the one I was trying to think of is ultra sonic sound used to measure tempurature. Something I would take a piezo transducer or tweeter and detect the temperature that way.

73 OM
n8zu

From 3697470272561761383
X-Google-Thread: fc2a5,ffb4995423606c03
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From: "NoSPAM" <unknown@nospam.org>
Newsgroups: rec.radio.amateur.homebrew
Followup-To: rec.radio.amateur.homebrew
References: <gg7qs402stp@news1.newsguy.com>
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X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
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NNTP-Posting-Date: Wed, 17 Dec 2008 00:33:50 UTC
Date: Tue, 16 Dec 2008 19:33:53 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1868

"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
news:a92ca348-3dde-4261-b01b-f694c2a21c83@z1g2000yqn.googlegroups.com...

> Nonsense... please read the definition section at
> http://minicircuits.com/pages/pdfs/doub9-2.pdf

You are grasping at straws trying to defend your beliefs. Their definition only applies to their products. You should have read the entire article. If you consider the single discontinuity of an ideal diode at the origin as nonlinear, then you are correct. In practice, two Class AB or B amplifiers, operated over their most linear region (each individually producing harmonics and intermodulation over 40 dB down from the fundamental), can be used in a push-push configuration to produce even order harmonics. I believe "Stray Dog" and I both have shown that single ended Class A amplifiers DO produce harmonics.

The Mini Circuits "doubler" is, I believe, essentially a full wave rectifier using Schottky diodes. If the diodes were ideal, i.e. had no highly non-linear region at low voltages, there would be no fundamental output or odd order harmonics. From my earlier discussion of full wave rectification, perfect diodes would produce the fourth harmonic 14 dB lower than the second harmonic, and the sixth harmonic slightly over 7 dB down from the fourth. The Minicircuits device produces at its output the fundamental and odd order harmonics in addition to the desired even order harmonics. It also requires a drive level of between 0 and 20 dBm. Too low a drive and the doubling action disappears; too high a drive and the amplitude of the higher harmonics increases (until the device burns out).

Some further research into the push-push doubler reveals that two sharp cutoff pentodes would do a better job than triodes for this application. Also junction field effect transistors follow square law characteristics over a fairly wide range making them ideal in frequency doubler operation too. It is also possible to nearly achieve ideal diode behavior with the use of very high gain amplifiers with feedback through the diode. See the following Intersil ap-note for details:
http://www.intersil.com/data/an/an1114.pdf.

My post of the graphs has not appeared on the "alt.binaries.ham-radio" Usenet newsgroup, even on my nntp server which still insists that the newsgroup exists. I'll try again using "alt.binaries.radio.misc" this time. My thanks go to "Stray Dog" for his efforts in also experimenting with a single ended 6C4 triode.

73, Dr. Barry L. Ornitz WA4VZQ

From -5274052989842002865

```
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
v42g2000yqv.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
Date: Tue, 16 Dec 2008 17:05:05 -0800 (PST)
Organization: http://groups.google.com
Lines: 10
Message-ID: <fe555d4f-52b2-4fe3-80a1-2a066f379cef@v42g2000yqv.googlegroups.com>
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
     <EdB1l.16656$uS1.14886@newsfe19.iad> <mVHHgPEIM2RJFADl@ifwtech.co.uk>
     <f286a892-c26b-4e87-b474-cfd5318669d2@z28g2000prd.googlegroups.com>
NNTP-Posting-Host: 76.226.231.61
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1229475906 1774 127.0.0.1 (17 Dec 2008 01:05:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 17 Dec 2008 01:05:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v42g2000yqv.googlegroups.com; posting-host=76.226.231.61;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1572
```

Hey OM

I'd give my right kidney for a water jet cutter. 60,000 psi water out of a saphire jet nozzle with a 10 mil opening feed by a high pressure 1/8 inch tubing. Uses only 1.2 gpm of water. Cuts even titatium like a knife thru butter.

73 OM

n8zu

```
From 1134355325725087881
X-Google-Thread: fc2a5,74151061e9274a7c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!f18g2000vbf.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutting non ferrous metals with a table saw
Date: Tue, 16 Dec 2008 17:43:39 -0800 (PST)
Organization: http://groups.google.com
```

```
Lines: 27
Message-ID: <e8e8e871-64c2-4a31-97ba-27925d3264e8@f18g2000vbf.googlegroups.com>
References: <2e974a98-78bf-4310-9661-826948e0fe2c@17g2000vbf.googlegroups.com>
     <EdB1l.16656$uS1.14886@newsfe19.iad> <mVHHgPEIM2RJFADl@ifwtech.co.uk>
     <f286a892-c26b-4e87-b474-cfd5318669d2@z28g2000prd.googlegroups.com>
     <fe555d4f-52b2-4fe3-80a1-2a066f379cef@v42g2000yqv.googlegroups.com>
NNTP-Posting-Host: 155.178.6.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229478220 23314 127.0.0.1 (17 Dec 2008 01:43:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 17 Dec 2008 01:43:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f18g2000vbf.googlegroups.com; posting-host=155.178.6.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.4)
     Gecko/2008102920 Firefox/3.0.4,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1870
```

On Dec 16, 8:05=A0pm, raypsi <RBorow...@gmail.com> wrote:

> Hey OM
>
> I'd give my right kidney for a water jet cutter. 60,000 psi water =A0out
> of a saphire jet nozzle with a 10 mil opening feed by a high pressure
> 1/8 inch tubing. Uses only 1.2 gpm of water. Cuts even titatium like a
> knife thru butter.
>
> 73 OM
>
> n8zu

My cousin runs one or did. He is/was a civilian employee at a naval base, he may be retired now.. I think he spent more time cutting parts out for custom cars than anything else. I remember the first time I saw the thing was in the early 80s and the computer that ran it took up 3 or 4 rack cabinets and data for the pattern was put in on mylar punch tape. The last time I saw it there were just a couple of PCs. He has even used the thing to cut automotive glass. Slices through it like the proverbial butter. There were rumors that Santa may bring me a plasma tourch set this year but I don't think its going to happen. He already remodeled my bathroom.

Jimmie

Jimmie

```
From -8708512532152313272
X-Google-Thread: fc2a5,ce1420f5d1625f56
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
```

```
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!r15g2000prh.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Reference oscillators
Date: Tue, 16 Dec 2008 20:39:27 -0800 (PST)
Organization: http://groups.google.com
Lines: 40
Message-ID: <5032bd78-4b6c-4067-b5d0-dc05be22b472@r15g2000prh.googlegroups.com>
References: <83d41cda-dca7-4709-adce-86dc13148353@f24g2000vbf.googlegroups.com>
     <4946e567$0$90274$14726298@news.sunsite.dk>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229488767 5711 127.0.0.1 (17 Dec 2008 04:39:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 17 Dec 2008 04:39:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r15g2000prh.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.4)
     Gecko/2008102920 Firefox/3.0.4,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1871

On Dec 15, 3:16=A0pm, "Ebbe \(7000\)" <es44(snabela)pc[punktum]dk>
wrote:
> K7ITM wrote:
>
> || Hi all,
> ||
> || Over the past few years, I've had the opportunity to save some decent
> || reference oscillators from being thrown away, by removing them from
> || scrap boards. =A0They're typically good stability (temp. compensated),
> || and reasonably low phase noise. =A0I have 10MHz, 20MHz and 100MHz, and
> || a couple others. =A0Some have a voltage control input. =A0All are 5V
> || (but I know some will work down to 3.3V), logic output (but "logic"
> || means PECL for the 100MHz ones). I'd be happy to send one or two to
> || folk who have a specific reasonably immediate need for such a beast.
> || If you're interested, drop me an email to let me know exactly what
> || you're looking for and why you want it. =A0I'll let you know if you
> || made the cutoff. =A0I may ask for shipping costs if I can't figure out
> || how to send them cheaply enough but packaged safely. =A0The
> || oscillators will be free to good homes, though.
> ||
> || Cheers,
> || Tom
>
> Really generous offer, unfortunately i'm too far away to take advantage o=
f
> your nice gesture :-(
```

> Funny thing, it feels like i live in a place where things like that is
> impossible to get near, (unless i buy via the internet, and at a price th=
at
> makes it unattractive to me).
>
> Have a merry Christmas and a happy new year.
> oz1esc, Ebbe

Hmmm. Do you live in some place that does not have mail service? I
don't recall putting any particular geographical boundaries on the
offer.

Cheers,
Tom

From -705954683219822345
X-Google-Thread: fc2a5,ffb4995423606c03
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2!news.glorb.com!
news.cse.ohio-state.edu!pitt.edu!egsner!news.cirr.com!sdf.lonestar.org!sdog2008
From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Doubling
Date: Wed, 17 Dec 2008 04:59:27 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 317
Message-ID: <Pine.NEB.4.64.0812170459170.2678@sdf.lonestar.org>
References: <gg7qs402stp@news1.newsguy.com>
<Pine.NEB.4.64.0811230222280.12668@sdf.lonestar.org>
 <53d62848-294c-4264-80f3-68e772536ce4@i24g2000prf.googlegroups.com>
 <6cj1l.8926$5P1.7597@newsfe13.iad> <a92ca348-3dde-4261-b01b-
f694c2a21c83@z1g2000yqn.googlegroups.com>
 <ONX1l.20868$R43.7319@newsfe08.iad>
NNTP-Posting-Host: sdf.lonestar.org
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: chessie.cirr.com 1229489971 29324 192.94.73.1 (17 Dec 2008 04:59:31 GMT)
X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Wed, 17 Dec 2008 04:59:31 +0000 (UTC)
In-Reply-To: <ONX1l.20868$R43.7319@newsfe08.iad>
Xref: g2news2.google.com rec.radio.amateur.homebrew:1872

See minor point at end....

On Tue, 16 Dec 2008, NoSPAM wrote:

> Date: Tue, 16 Dec 2008 19:33:53 -0500
> From: NoSPAM <unknown@nospam.org>
> Newsgroups: rec.radio.amateur.homebrew
> Followup-To: rec.radio.amateur.homebrew

> Subject: Re: Doubling
>
> "Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
> news:a92ca348-3dde-4261-b01b-f694c2a21c83@z1g2000yqn.googlegroups.com...
>> Nonsense... please read the definition section at
>> http://minicircuits.com/pages/pdfs/doub9-2.pdf
>
> You are grasping at straws trying to defend your beliefs. Their definition
> only applies to their products. You should have read the entire article. If
> you consider the single discontinuity of an ideal diode at the origin as
> nonlinear, then you are correct. In practice, two Class AB or B amplifiers,
> operated over their most linear region (each individually producing harmonics
> and intermodulation over 40 dB down from the fundamental), can be used in a
> push-push configuration to produce even order harmonics. I believe "Stray
> Dog" and I both have shown that single ended Class A amplifiers DO produce
> harmonics.
>
> The Mini Circuits "doubler" is, I believe, essentially a full wave rectifier
> using Schottky diodes. If the diodes were ideal, i.e. had no highly
> non-linear region at low voltages, there would be no fundamental output or
> odd order harmonics. From my earlier discussion of full wave rectification,
> perfect diodes would produce the fourth harmonic 14 dB lower than the second
> harmonic, and the sixth harmonic slightly over 7 dB down from the fourth.
> The Minicircuits device produces at its output the fundamental and odd order
> harmonics in addition to the desired even order harmonics. It also requires
> a drive level of between 0 and 20 dBm. Too low a drive and the doubling
> action disappears; too high a drive and the amplitude of the higher harmonics
> increases (until the device burns out).
>
> Some further research into the push-push doubler reveals that two sharp
> cutoff pentodes would do a better job than triodes for this application. Also
> junction field effect transistors follow square law characteristics over a
> fairly wide range making them ideal in frequency doubler operation too. It
> is also possible to nearly achieve ideal diode behavior with the use of very
> high gain amplifiers with feedback through the diode. See the following
> Intersil ap-note for details: http://www.intersil.com/data/an/an1114.pdf.
>
> My post of the graphs has not appeared on the "alt.binaries.ham-radio" Usenet
> newsgroup, even on my nntp server which still insists that the newsgroup
> exists. I'll try again using "alt.binaries.radio.misc" this time.

I learned many years ago that even non-binary newsgroups _can_ carry
attached files (in any format), but then later learned that ISPs can
configure their newsservers in ways that can prevent you from making a
post with an attached file. I discovered that when a post I tried to make
with a new ISP gave me an error message. It is possible that you have an
ISP that somehow prevents either/or the body and/or the attached file from
being posted either dependently or independently from each other. And,
tech support people don't understand this, and sometimes even the geeky
whips who are sysops don't understand it, either.

You might actually do better if you can set up a "personal" web page and
just load the jpeg or gif files with associated URLs.

```
    My thanks
> go to "Stray Dog" for his efforts in also experimenting with a single ended
> 6C4 triode.

Thank you for taking the time to read about my "discovery" and making an
acknowledgement. But, most of the tube transmitter schematics I ever
looked at for driver/buffer/multiplier stages sure looked like they
were running linear bias voltages on the control grids instead of
class C biases. And, it was quite an experience to see, on a quality
oscilloscope, that second harmonic come out of nothing as the air variable
capacitor was adjusted for the second harmonic frequency. And, the S-meter
on the receiver, tuned to the second harmonic frequency, also bumped up a
few S units, too, at the same time.

>
>   73, Dr. Barry L. Ornitz  WA4VZQ
>
>
```

```
>



From 6955968719484916079
X-Google-Thread: fc2a5,ce1420f5d1625f56
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!goblin2!goblin.stu.neva.ru!news.net.uni-c.dk!dotsrc.org!filter.dotsrc.org!news.dotsrc.org!not-for-mail
From: "Ebbe \(7000\)" <es44(snabela)pc[punktum]dk>
Newsgroups: rec.radio.amateur.homebrew
```

```
References: <83d41cda-dca7-4709-adce-86dc13148353@f24g2000vbf.googlegroups.com>
<4946e567$0$90274$14726298@news.sunsite.dk> <5032bd78-4b6c-4067-b5d0-
dc05be22b472@r15g2000prh.googlegroups.com>
Subject: Re: Reference oscillators
Date: Wed, 17 Dec 2008 14:33:46 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1933
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1933
Lines: 19
Message-ID: <4948ffcd$0$90272$14726298@news.sunsite.dk>
Organization: SunSITE.dk - Supporting Open source
NNTP-Posting-Host: 90.185.218.32
X-Trace: news.sunsite.dk
DXC=GQSZHl<8_A@Si^`20K04QCYSB=nbEKnkKTekT_m2IJNJQoGdV]kG`jH0P:`QfVhB0CKAib\KDO`hBh
J2L1l8hbUA?5P@KQJ1?KG=3N_Hb9ddo@
X-Complaints-To: staff@sunsite.dk
Xref: g2news2.google.com rec.radio.amateur.homebrew:1873

K7ITM wrote:
|
| Hmmm.  Do you live in some place that does not have mail service?  I
| don't recall putting any particular geographical boundaries on the
| offer.
|
| Cheers,
| Tom

Hehe, no we do still have mail, though the level of service is dropping
rapidly :-)
I was just guessing, that shipping would be too high to make it realistic.

Best regards
Ebbe





From -3276323730832294510
X-Google-Thread: 108122,f6e1f27739624bb1,start
X-Google-Thread: fc2a5,f6e1f27739624bb1,start
X-Google-Thread: 107ada,f6e1f27739624bb1,start
X-Google-Thread: 110c99,f6e1f27739624bb1,start
X-Google-Thread: 111320,f6e1f27739624bb1,start
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!t39g2000prh.googlegroups.com!not-for-
mail
From: elvinabr@gmail.com
Newsgroups:
```

```
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: Sexy celeb
Date: Wed, 17 Dec 2008 06:08:50 -0800 (PST)
Organization: http://groups.google.com
Lines: 7
Message-ID: <1b7441a3-7aed-46cc-8b53-ea59f507c71d@t39g2000prh.googlegroups.com>
NNTP-Posting-Host: 92.112.203.156
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1229522930 5356 127.0.0.1 (17 Dec 2008 14:08:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 17 Dec 2008 14:08:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t39g2000prh.googlegroups.com; posting-host=92.112.203.156;
     posting-account=Iq4AEgoAAAAzw2EHegLKObvlQ62MXhS6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:947
rec.radio.amateur.homebrew:1577 rec.radio.amateur.misc:1687 rec.running:5865
rec.scouting.issues:957

http://reggi.coolpage.biz  Angelina Jolie Under The Sheets Charlize
Theron walks through a house, slowly peeling her clothes off! Farrah
Fawcett Topless Kelly Ripa Striptease  Meg Ryan Getting It On Meg hops
on for the ride! Melanie Griffith Nude Check her out before her
implants!  If they get rid of the butch amazon woman, sign me up. Orgy
- The New Reality Show Get J-Lo and her rear- end at their finest and
on your screen with... Alyssa Milano Sexy Photoshoot


From 30107598286231392
X-Google-Thread: fc2a5,ce1420f5d1625f56
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!i18g2000prf.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Reference oscillators
Date: Wed, 17 Dec 2008 11:30:02 -0800 (PST)
Organization: http://groups.google.com
Lines: 11
Message-ID: <109576e8-b7b1-4dbc-98ab-7614a27145c6@i18g2000prf.googlegroups.com>
References: <83d41cda-dca7-4709-adce-86dc13148353@f24g2000vbf.googlegroups.com>
     <4946e567$0$90274$14726298@news.sunsite.dk> <5032bd78-4b6c-4067-b5d0-
dc05be22b472@r15g2000prh.googlegroups.com>
     <4948ffcd$0$90272$14726298@news.sunsite.dk>
NNTP-Posting-Host: 71.112.191.81
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229542202 13716 127.0.0.1 (17 Dec 2008 19:30:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 17 Dec 2008 19:30:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i18g2000prf.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.4)
     Gecko/2008102920 Firefox/3.0.4,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1578
```

On Dec 17, 5:33=A0am, "Ebbe \(7000\)" <es44(snabela)pc[punktum]dk>
wrote:
...

Well, I managed to get one package down under 50 grams. Drop me an email if interested. My call at msn.com. I tried sending you one, but don't know if it got through.

Cheers,
Tom

```
From -2976370619135962551
X-Google-Thread: fc2a5,30bde57010031c1a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!o4g2000pra.googlegroups.com!not-for-
mail
From: Mike Silva <snarflemike@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FA: MOPA 2-Tube Transmitter Instant Junkbox parts assortment
Date: Wed, 17 Dec 2008 12:58:51 -0800 (PST)
Organization: http://groups.google.com
Lines: 59
Message-ID: <fe0f9c5b-263a-4f54-9350-f058c09ce17b@o4g2000pra.googlegroups.com>
References: <4fcc0d8f-5a41-46e9-be38-c1619125043f@y18g2000yqn.googlegroups.com>
     <dc5059f2-63d7-4818-a518-1d9bb79bd062@y18g2000yqn.googlegroups.com>
     <5a_0l.7945$UI2.3187@bignews6.bellsouth.net>
<4947c1ff$0$20283$607ed4bc@cv.net>
NNTP-Posting-Host: 71.3.103.150
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1229547531 11353 127.0.0.1 (17 Dec 2008 20:58:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 17 Dec 2008 20:58:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o4g2000pra.googlegroups.com; posting-host=71.3.103.150;
```

```
     posting-account=QgO_5wkAAACZKtAvkb3f1VNDm9C58qLr
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
     .NET CLR 2.0.50727; .NET CLR 3.0.04506; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1579

On Dec 16, 9:58=A0am, "Rick" <rickn...@hotmail.com> wrote:
> A few years ago someone gave me a box of tube sockets and some 5763s. =A0=
I
> always wondered if they were any good. =A0So I built up a sloppy little
> oscillator, running on 7038 and 22 out of 23 of them oscillated. =A0It ta=
kes
> 17 seconds for a filament to warm up and the circuit to start putting out
> power.
> Ok so what next? =A0I notice in the tube manual, ARRL handbook 1966, that=
 it
> has 13 watts plate dissipation. =A0Wow that seems like a lot for a little=
 9
> pin tube. =A0So I built another stage next to the oscillator and a little=
 pi
> network output and drove the heck out of it. =A0Only got 3 watts. =A0Then=
 double
> checked the voltages since I was running on a variac and lo and behold I
> only had 5 volts on the filament so cranked her up where she should be an=
d
> now getting 9 watts into 50 ohms.
> Then checked the great W8JI website and see where he put some shaping int=
o
> his DX60 to clean up the clicks so I looked at my output with a scope wit=
h
> my keyer banging away at the thing and ye Gads, a square wave. =A0So now
> working on values of a grid block keyer circuit to round off the edges.
> Fun stuff.
> Added a socket for an 807. =A0Wow, got plenty of drive !! 55 watts out wi=
th
> 600 volts on the plate. =A02nd harmonic 45 db down, not too bad. =A0Total=
 money
> expended to date - $zero.
> Anyone like to do something similar? =A0If you need a 5763 and socket jus=
t let
> me know. =A0All I ask is you to really use it, not just throw it in the d=
rawer
> for some day in the future.
> Oh by the way. =A0This is just posted to homebrew, don't need to cross po=
st it
> to the other newsgroups, too much of that going on. =A0Pick the group tha=
t it
> belongs in and they will find it if they are interested.
> 73,
> Rick =A0K2XT

About 5 or 6 years ago I think the government must have dumped its
```

supply of 5763s since they started showing up by the thousands, 1980s manufacture. Since as a kid I had seen lots of articles that used them, I quickly bought Too Many. I think everybody I know has at least 25 and often 100. Since then I've donated some and sold some and used some. It's a very nice little tube, and should last forever (+/-) in oscillator or QRP service.

Very interesting to hear how much difference the lower heater voltage made. It's tempting these days to just make up a 6.3VDC regulator and be done with it.

73,
Mike, KK6GM

From 7418635953345746575
X-Google-Thread: fc2a5,fed6e1dd20d4a5c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!t3g2000yqa.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Danby Mirowave Oven = lousy faraday cage
Date: Wed, 26 Nov 2008 20:39:55 -0800 (PST)
Organization: http://groups.google.com
Lines: 57
Message-ID: <348e0606-a3d3-4569-9ef3-321bcb9ef325@t3g2000yqa.googlegroups.com>
References: <IrmWk.26027$VN1.10274@newsfe02.iad>
<492a09a4$0$17057$9a6e19ea@unlimited.newshosting.com>
<49fb9437-ba47-4099-8138-4357f4bfca08@r15g2000prh.googlegroups.com>
NNTP-Posting-Host: 76.226.127.85
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227760795 30482 127.0.0.1 (27 Nov 2008 04:39:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 27 Nov 2008 04:39:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t3g2000yqa.googlegroups.com; posting-host=76.226.127.85;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1624

Hey OM:

I have a zapper field strength meter and even on the most attenuated setting I read a 400W microwave oven form 100ft away. Now if that thing lites up an NE2 bulb outside the cabinet then you better worry. The guts of a microwave oven is no faraday cage. You want a real faraday cage did you try tossing it in the 12 ft section of a built in swimming pool?

73 OM
n8zu

On Nov 24, 2:42=A0am, MarkAren <markare...@yahoo.com> wrote:
> I would think 10mW-ish (+10dBm) leakage around the seal of an oven
> would be reasonably safe, this is down from 1kW (+60dBm) output from
> the magnetron.
>
> 50dB attenuation should have a marked impact on range for a cordless
> phone.
>
> Still all rather inconclusive, but maybe time to buy a leakage
> detector just to be safe...
>
> -Mark
>
> On Nov 24, 2:56=A0pm, RFI-EMI-GUY <Rhyol...@NETTALLY.COM> wrote:
>
>
>
> > Alan Cruikshank wrote:
> > > I have a Motorola Cordless Phone model SD4551, and a Danby Mirowave o=
ven
> > > model DMW902W(-1). I tried putting the cordless handset into the clos=
ed
> > > microwave and sucessfully paged it. Should I be worried?
>
> > Next time you try this, put the oven in defrost mode for about 30
> > seconds. The "problem" should resolve itself. };^}
>
> > Your Motorola phone is 2.4 GHz model the results are interesting, but
> > not conclusive since the seal is probably only effective for some 10's
> > of dB's and your phone system has an effective path loss of perhaps 100=
 dB.
>
> > --
> > Joe Leikhim K4SAT
> > "The RFI-EMI-GUY"=A9
>
> > "Treason doth never prosper: what's the reason?
> > For if it prosper, none dare call it treason."
>
> > "Follow The Money" =A0;-P- Hide quoted text -
>
> - Show quoted text -

From 7265084822878246837

X-Google-Thread: fc2a5,ffb4995423606c03
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 27 Nov 2008 00:30:50 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Doubling
Newsgroups: rec.radio.amateur.homebrew
References: <gg7qs402stp@news1.newsguy.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <DPedndJHQ50Ho7PUnZ2dnUVZ_tzinZ2d@web-ster.com>
Date: Thu, 27 Nov 2008 00:30:50 -0600
Lines: 39
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-7bY6Clvgao7m1J1wo52UhtwSl7JIylLUg1yJI/
ICUfkpyMJJByu8A74o83udvQDgydG7KoLMIKCO2w1!
HElzP5irBfALyZGqeIywJIoHcLJaJrjYN7T0Pzh05ysYN+aqz2u4L2xrqEQ9Txep2+LUXshIuiu8!
UfDSPuSHry22P0Y=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1328

On Fri, 21 Nov 2008 22:30:24 -0400, exray wrote:

> This is a really dumb question but it dawned on me that I did not know
> the correct answer.
>
> In terms of old transmitters from the 20s/30s...In a crystal oscillator
> I understand the concept of setting the oscillator output tank to
> favor the harmonic from the crystal. (Stop me if I'm wrong already...)

You're wrong already, kinda.

Most of the schematics that I've seen from back then have the crystal oscillating at it's fundamental. If the energy extracted from the oscillator is at twice the crystal frequency it's because of harmonics generated in the tube.

I don't have a lot of reference material to look at, but I don't think that using a crystal's overtones to generate RF really picked up until the 50's (it was probably done during WW-II, but I only see it put forth as a common method starting with my '50's ARRL handbooks).

> But in a doubling amplifier stage am I counting on having enough
> harmonic content at the input or am I creating the harmonic with the
> non-linearity of the amplifier?

You're creating the harmonic with the nonlinearity of the amplifier. A class C stage (which is pretty much assumed for CW transmitters) is very rich in harmonics, and the harder you drive it the higher the harmonics go. So it's pretty easy to get one to generate considerable energy at a harmonic frequency, which you then pick out with your tank circuit.

--
Tim Wescott
Control systems and communications consulting
http://www.wescottdesign.com

Need to learn how to apply control theory in your embedded system?
"Applied Control Theory for Embedded Systems" by Tim Wescott
Elsevier/Newnes, http://www.wescottdesign.com/actfes/actfes.html

From -4782640488160613687
X-Google-Thread: fc2a5,ffb4995423606c03
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!gnilink.net!spln!extra.newsguy.com!newsp.newsguy.com!news2
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Doubling
Date: Thu, 27 Nov 2008 08:31:55 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 23
Message-ID: <ggm3vu0q76@news2.newsguy.com>
References: <gg7qs402stp@news1.newsguy.com> <DPedndJHQ50Ho7PUnZ2dnUVZ_tzinZ2d@web-ster.com>
NNTP-Posting-Host: p6d3abfbfff00000037bc45504eee9881a65083647b23a1c6.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <DPedndJHQ50Ho7PUnZ2dnUVZ_tzinZ2d@web-ster.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1329

Tim Wescott wrote:
> On Fri, 21 Nov 2008 22:30:24 -0400, exray wrote:
>
>> This is a really dumb question but it dawned on me that I did not know
>> the correct answer.
>>
>> In terms of old transmitters from the 20s/30s...In a crystal oscillator
>>   I understand the concept of setting the oscillator output tank to
>> favor the harmonic from the crystal. (Stop me if I'm wrong already...)
>
> You're wrong already, kinda.
>

> Most of the schematics that I've seen from back then have the crystal
> oscillating at it's fundamental. If the energy extracted from the
> oscillator is at twice the crystal frequency it's because of harmonics
> generated in the tube.

Ok, I'll buy that. One description I read of the tritet osc described
it as being an oscillator with inherent class c amplification, hence the
plate circuit being tuned to the desired 'harmonic' and the crystal is
indeed operating at its fundamental freq.

-Bill

From 9109017478390425939
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!flph200.ffdc.sbc.com!prodigy.net!
flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!flpi147.ffdc.sbc.com.POSTED!
a44c331b!not-for-mail
From: "Nelson Ogden" <nelsonogden-remove-this-to-email-me@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
<FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>
<4926c4f8$0$31141$bd467cd0@news.dslextreme.com>
<gb6dneuUo5Ygw7rUnZ2dnUVZ8qbinZ2d@pipex.net>
Subject: Re: WiFi antenna recommendations?
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1933
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1933
Message-ID: <kMxXk.5169$8_3.4782@flpi147.ffdc.sbc.com>
NNTP-Posting-Host: 76.253.122.6
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi147.ffdc.sbc.com 1227794576 ST000 76.253.122.6 (Thu, 27 Nov 2008
09:02:56 EST)
NNTP-Posting-Date: Thu, 27 Nov 2008 09:02:56 EST
Organization: at&t http://my.att.net/
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SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Thu, 27 Nov 2008 09:07:14 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1330

Outdoor lawn/garden water timer boxes work well for outdoor wireless
projects. They are inexpensive, too.

"highlandham" <rfburns@nospam.com> wrote in message
news:gb6dneuUo5Ygw7rUnZ2dnUVZ8qbinZ2d@pipex.net...
> Dave wrote:

```
> > Short Pringle's can, 1/4 wave probe, 1/2 wave from closed end, soldered
> > to female TNC.
> ==================================
> Yes these cans work well ; the problem is the type and length  of coax .
> A suitable arangement is a WiFi router near the antenna (if necessary in
> a wx proof box ) with an ethernet cat5 cable running to the equipment.
>
> Another possibility is a USB WiFi adaptor in the focal point of a
> satellite dish with a USB to ethernet converter.
>
> Frank    KN6WH




From 7359800121293221213
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-
online.de!news.albasani.net!not-for-mail
From: Stev eH
<StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfgh
gjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbl
lyxdldf@tfif.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor
Date: Thu, 27 Nov 2008 15:33:42 +0000
Organization: Digital preserves music the way that formaldehyde preserves
 frogs. You kill it, and it lasts forever
Lines: 16
Message-ID: <ggmekg$fmh$1@news.albasani.net>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
     <10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
     <tZgXk.6309$W06.728@flpi148.ffdc.sbc.com> <020a50e0-c5ad-4a71-8e59-
eb90b328855d@z1g2000yqn.googlegroups.com>
Reply-To:
StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfghg
jsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbll
yxdldf@tfif.co.uk
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
E7pQ9xKX+vpGJqsvpntWkbUWWyevqcrk3Mnc8Kn+UButi7JKUUqzB3mtl9qgP5OxFnMSVP34oDQhvCiqvQ
GIl5T6UZ1Pr5NniWiA6AxQ0yBHpG4nS95+qUNznih7nRjq
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Thu, 27 Nov 2008 15:33:37 +0000 (UTC)
X-User-ID: z50yLY1xqpt1TNCZuPJBVR9MjgbAeSHdlTya71yF5/w=
In-Reply-To: <020a50e0-c5ad-4a71-8e59-eb90b328855d@z1g2000yqn.googlegroups.com>
Cancel-Lock: sha1:z3YWG+c01V9RH2vxNY4sOG/Tuzo=
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
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X-NNTP-Posting-Host: CMo5lW5fGXhESTNqo/6xMtj4bfM/6KWEZ2gQs9Jw/VA=
Xref: g2news1.google.com rec.radio.amateur.homebrew:1331
```

Tel star Electronics briangriffey@sbcglobal.net <briangriffey@sbcglobal.net>
  wrote:

>> His website claims that Mouser Electronics is a "partner." Searches on
>> Mouser for "Telstar" and "VoiceMax" return zero results. Hmm. . does buying
>> some parts from Mouser make them a "partner." If so, I'm a "partner" with
>> Mouser, too.
>
> The dictionary defines partner as "One that is united or associated
> with another or others in an activity or a sphere of common interest."
> So yes, in your example... you would be a partner of Mouser.
> briangriffey@sbcglobal.net <briangriffey@sbcglobal.net>

If I advertised that my company was a partner with HP (we bought the
computers from them) and Kenco I think they may object ....

Steve H

```
From 5530457733066225921
X-Google-Thread: fc2a5,87fcd8a4295b74cb,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
w3g2000yqc.googlegroups.com!not-for-mail
From: "Tom, N3IJ" <n3ij@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Interface Toughbook Mic Input to Line Out from SWL's PSK20
Date: Thu, 27 Nov 2008 08:35:48 -0800 (PST)
Organization: http://groups.google.com
Lines: 15
Message-ID: <87af20e2-cf37-4334-bfc6-c532ac8b4394@w3g2000yqc.googlegroups.com>
NNTP-Posting-Host: 69.251.158.135
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1227803748 21644 127.0.0.1 (27 Nov 2008 16:35:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 27 Nov 2008 16:35:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w3g2000yqc.googlegroups.com; posting-host=69.251.158.135;
     posting-account=DkCicQoAAAARcMzvFC_jtpRYIIdGNZzK
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.60 (Windows NT 5.0; U; en) Presto/
2.1.1,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1332
```

I want to interface the audio from the Small Wonder Labs PSK20 to the
mic input in the Toughbook CF27 laptop. The computer has no line
input, and I plan to use the mic input via the port replicator. The
Toughbook reference manual doesn't give any specs for the mic input.

The user manual does contain this caution:

"Use only a monaural condenser microphone (miniature jack). Using
an input source other than a monaural condenser microphone
may not allow audio to be input or may damage the equipment."

Reading suggests that an L pad in the 40-60 dB range is required, but
I would like to narrow this down before experimenting. Any experiences
using the Toughbook on PSK would be helpful.

Thanks, Tom, N3IJ

```
From -5443042547163497768
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
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X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!q30g2000prq.googlegroups.com!not-for-
mail
From: seaweedsl <seaweedsteve@gmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
Date: Thu, 27 Nov 2008 08:52:56 -0800 (PST)
Organization: http://groups.google.com
Lines: 13
Message-ID: <249c95e5-13df-4b5d-85e5-78378261b1ab@q30g2000prq.googlegroups.com>
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
     <f18ee327-fbd3-4e0b-9810-c36001b94a3a@e1g2000pra.googlegroups.com>
     <fast-D4F3C4.09381826112008@netnews.worldnet.att.net>
NNTP-Posting-Host: 67.142.130.45
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227804777 12251 127.0.0.1 (27 Nov 2008 16:52:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 27 Nov 2008 16:52:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q30g2000prq.googlegroups.com; posting-host=67.142.130.45;
     posting-account=OWk94goAAAAU2lfftqEm-7rWoOPDfnJW
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9)
     Gecko/2008052906 Firefox/3.0,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.antenna:5927
rec.radio.amateur.homebrew:1333 alt.internet.wireless:3169
```

On Nov 26, 12:38=A0pm, Bruce in alaska <f...@btpost.net> wrote:

> There are outfits that make Omni Antennas for the 2.4 Ghz Band, that
> have Down-tilt designed into them.......Works well for a Central Distribu=
tion.

>
> --

Agreed, for an AP, if 360 coverage is needed, an omni with downtilt
is an appropriate option.

Not for clients.

From 5300479575890594082
X-Google-Thread: fc2a5,87fcd8a4295b74cb
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <87af20e2-cf37-4334-bfc6-c532ac8b4394@w3g2000yqc.googlegroups.com>
Subject: Re: Interface Toughbook Mic Input to Line Out from SWL's PSK20
Lines: 44
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <o8BXk.1445$us6.477@nwrddc01.gnilink.net>
Date: Thu, 27 Nov 2008 17:53:24 GMT
NNTP-Posting-Host: 71.110.227.13
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1227808404 71.110.227.13 (Thu, 27 Nov 2008 12:53:24 EST)
NNTP-Posting-Date: Thu, 27 Nov 2008 12:53:24 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:1631

"Tom, N3IJ" <n3ij@comcast.net> wrote in message
news:87af20e2-cf37-4334-bfc6-c532ac8b4394@w3g2000yqc.googlegroups.com...
> I want to interface the audio from the Small Wonder Labs PSK20 to the
> mic input in the Toughbook CF27 laptop. The computer has no line
> input, and I plan to use the mic input via the port replicator. The
> Toughbook reference manual doesn't give any specs for the mic input.
> The user manual does contain this caution:
>
> "Use only a monaural condenser microphone (miniature jack). Using
> an input source other than a monaural condenser microphone
> may not allow audio to be input or may damage the equipment."

>
> Reading suggests that an L pad in the 40-60 dB range is required, but
> I would like to narrow this down before experimenting. Any experiences
> using the Toughbook on PSK would be helpful.
>
> Thanks, Tom, N3IJ

Microphone does work well if you have a decent one. Also has the advantage of being able to record both sides of conversations for logging purposes.

The inputs are usually 500-2000 ohm impedance and have a DC bias for powering the mic.

I have always used what is in the junk box to make the transition. The speaker output is fed to a low impedance audio transformer. It may be 8 ohm to 2000 ohm or 500-500 ohm or whatever in that range. Such things are easily obtainable at RS and other sources. The output of the transformer is loaded with a resistor of 1k-10 k and a series resistor of 100k or more feeds the mic input. This will usually reduce the input to mic level and the transformer will break up any common mode potentials between the chassis of the computer and the radio that tend to bring hum and noise. You will also see a flatter response than with acoustic coupling. You should be able to reduce the mic level in the mixer applet to normal level. You may have to play with the 100k and may need to shunt the mic input as well but you will find this by experimentation to get it right. A purist might also series the input with a 1uf to 10 uf capacitor to completely block the DC component but the series 100k should limit that sufficiently. Some experimentation could be done for more precise equalization if you still have time on your hands.

This should work with any sound card mode.

From 1428438782089992844
X-Google-Thread: fc2a5,d52b4755bda28509,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews5.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Passive grid linear
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 19
Message-ID: <pQBXk.774$nD1.745@bignews5.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:

ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcboeoehgahcmbmleepelllbpipikkjbbjchec
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NNTP-Posting-Date: Thu, 27 Nov 2008 13:40:21 EST
Organization: BellSouth Internet Group
Date: Thu, 27 Nov 2008 13:45:33 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1632

Anybody here ever build a passive grid linear amp?
That's where you simply terminate the grid of a tetrode with a 50 ohm resistor and just drive it directly. Svetlana recommended that configuration with their 4cx400, 4xc800 and 4cx1600 tubes, and it should work well with more commone surplus 4cx250's.

I was thinking of using a 4:1 or 9:1 balum and increasing the grid resistor value to 200 or 450 ohms to reduce the amount of driving power required. With the 4cx250 a peak grid drive of about 50 volts is required in class AB1. With a 50 ohm termination the driving power would be 50 watts, with a 200 ohm termination 12.5 watts, and with the 450 ohm termination 5.6 watts. That's actually just the power sucked up in the resistor, but the tube requires less than 1 watt of drive itself in class AB1. Some power might be lost in the balum, so maybe the actual driving power might increase by a watt or two. Since I wanted this to be a final for a QRP rig the larger terminating resistance looked like a better way to go. The only issue is how high can you go with the termination resistance and keep the tube stable without neutralization being required?

From -434071174335640202
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X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!wn13feed!worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
From: Bruce in alaska <fast@btpost.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
Organization: Bruce's Trading Post
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net> <f18ee327-fbd3-4e0b-9810-c36001b94a3a@e1g2000pra.googlegroups.com> <fast-D4F3C4.09381826112008@netnews.worldnet.att.net>
<249c95e5-13df-4b5d-85e5-78378261b1ab@q30g2000prq.googlegroups.com>
User-Agent: MT-NewsWatcher/3.5.3b2 (PPC Mac OS X)
Message-ID: <fast-6A54B4.10105927112008@netnews.worldnet.att.net>
Lines: 24
Date: Thu, 27 Nov 2008 19:10:55 GMT
NNTP-Posting-Host: 12.12.208.37
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2008 19:10:55 GMT)
NNTP-Posting-Date: Thu, 27 Nov 2008 19:10:55 GMT
Xref: g2news1.google.com rec.radio.amateur.antenna:5933
rec.radio.amateur.homebrew:1336 alt.internet.wireless:3170

In article
<249c95e5-13df-4b5d-85e5-78378261b1ab@q30g2000prq.googlegroups.com>,
 seaweedsl <seaweedsteve@gmail.com> wrote:

> On Nov 26, 12:38�pm, Bruce in alaska <f...@btpost.net> wrote:
>
> > There are outfits that make Omni Antennas for the 2.4 Ghz Band, that
> > have Down-tilt designed into them.......Works well for a Central
> > Distribution.
> >
> > --
>
>
> Agreed, for an AP,  if 360 coverage is needed, an omni with downtilt
> is an appropriate option.
>
> Not for clients.

Yep, for Clients, I use 12dbi Panel Antennas, which are very compact and
provide the required F/B Ratio and gain, for each link.

--
Bruce in alaska
add <path> after <fast> to reply


From -2509466132333208053
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wn13feed!worldnet.att.net!bgtnsc04-
news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
From: Bruce in alaska <fast@btpost.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WiFi antenna recommendations?
Organization: Bruce's Trading Post
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
<FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>
<4926c4f8$0$31141$bd467cd0@news.dslextreme.com>
<gb6dneuUo5Ygw7rUnZ2dnUVZ8qbinZ2d@pipex.net>
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User-Agent: MT-NewsWatcher/3.5.3b2 (PPC Mac OS X)
Message-ID: <fast-1B83E4.10170327112008@netnews.worldnet.att.net>
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Date: Thu, 27 Nov 2008 19:16:51 GMT
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X-Complaints-To: abuse@worldnet.att.net
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2008 19:16:51 GMT)
NNTP-Posting-Date: Thu, 27 Nov 2008 19:16:51 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:1337
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In article <kMxXk.5169$8_3.4782@flpi147.ffdc.sbc.com>,
 "Nelson Ogden" <nelsonogden-remove-this-to-email-me@gmail.com> wrote:

> Outdoor lawn/garden water timer boxes work well for outdoor wireless
> projects. They are inexpensive, too.

I use Plastic Buckets turned upside down, that fit over a 1/2" Plywood
Base cut to just fit inside the open rim of the bucket. They make
Excellent RayDomes clear up thru 5 Ghz, and come in various sizes from
Pints, Quarts, and Gallons, up thru 5 USG.

--
Bruce in alaska
add <path> after <fast> to reply

```
From 9051439145224959604
X-Google-Thread: fc2a5,d52b4755bda28509
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.germany.com!news.k-dsl.de!aioe.org!
not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Passive grid linear
Date: Thu, 27 Nov 2008 20:28:25 +0100 (CET)
Organization: Mostly In Piles
Lines: 47
Message-ID: <Xns9B63890F04B3F2MDWN@194.177.96.78>
References: <pQBXk.774$nD1.745@bignews5.bellsouth.net>
NNTP-Posting-Host: ZA9ug+Joqh/BEaq/fbWTlQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Thu, 27 Nov 2008 19:28:25 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.5
Xref: g2news2.google.com rec.radio.amateur.homebrew:1635
```

Howdy,

I've only read about them. G2DAF wrote extensively
on pasive grid linears.

I think the ultimate value of grid resistor will
depend on the grid capacitance and layout parasitics.
The articles I've read use 300 Ohms as the grid swamping
resistor but with a 4CX250 450 Ohms might be possible.

Here is an article you may find useful.
http://www.radioamator.ro/articole/files/291_1.pdf

I have a bucket full of 4CX250B's and would like
to try passive grid someday. Please Let us know
how yours shapes up if you decide to build one.

73,
Grumpy

ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in
news:pQBXk.774$nD1.745@bignews5.bellsouth.net:

> Anybody here ever build a passive grid linear amp?
> That's where you simply terminate the grid of a tetrode with a 50 ohm
> resistor and just drive it directly. Svetlana recommended that
> configuration with their 4cx400, 4xc800 and 4cx1600 tubes, and it should
> work well with more commone surplus 4cx250's.
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> I was thinking of using a 4:1 or 9:1 balum and increasing the grid
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> in class AB1. Some power might be lost in the balum, so maybe the
> actual driving power might increase by a watt or two.   Since I wanted
> this to be a final for a QRP rig the larger terminating resistance
> looked like a better way to go. The only issue is how high can you go
> with the termination resistance and keep the tube stable without
> neutralization being required?
>

From 5768415556387494948
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X-Google-Thread: 106d41,fc6cbb34a018c5bc
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!20g2000yqt.googlegroups.com!not-for-mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb
Subject: Re: VoiceMax Speech Processor
Date: Thu, 27 Nov 2008 12:47:23 -0800 (PST)
Organization: http://groups.google.com
Lines: 9
Message-ID: <47ae8004-a482-406b-99fb-31fb85ed9222@20g2000yqt.googlegroups.com>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>

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     <10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
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eb90b328855d@z1g2000yqn.googlegroups.com>
     <ggmekg$fmh$1@news.albasani.net>
NNTP-Posting-Host: 99.140.254.59
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 27 Nov 2008 20:47:23 +0000 (UTC)
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Injection-Info: 20g2000yqt.googlegroups.com; posting-host=99.140.254.59;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
     .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506;
     InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1636 rec.radio.cb:6030
```

> If I advertised that my company was a partner with HP (we bought the
> computers from them) and Kenco I think they may object ....
> Steve H

Well... I can't speak for your business... but my partners are
overjoyed that they are mentioned and have links available to their
sites.
www.telstar-electronics.com

```
From -1066055568922012450
X-Google-Thread: fc2a5,d52b4755bda28509
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
gnilink.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews2.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Passive grid linear
References: <pQBXk.774$nD1.745@bignews5.bellsouth.net>
<Xns9B63890F04B3F2MDWN@194.177.96.78>
In-Reply-To: <Xns9B63890F04B3F2MDWN@194.177.96.78>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
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Lines: 78
Message-ID: <TZDXk.881$dc4.619@bignews2.bellsouth.net>
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X-Abuse-Info: Please forward a copy of all headers for proper handling
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NNTP-Posting-Date: Thu, 27 Nov 2008 16:06:59 EST
Organization: BellSouth Internet Group
Date: Thu, 27 Nov 2008 16:13:32 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1637

Grumpy The Mule wrote:
> Howdy,
>
>
> I've only read about them. G2DAF wrote extensively
> on pasive grid linears.
>
> I think the ultimate value of grid resistor will
> depend on the grid capacitance and layout parasitics.
> The articles I've read use 300 Ohms as the grid swamping
> resistor but with a 4CX250 450 Ohms might be possible.
>
> Here is an article you may find useful.
> http://www.radioamator.ro/articole/files/291_1.pdf
>
> I have a bucket full of 4CX250B's and would like
> to try passive grid someday.  Please Let us know
> how yours shapes up if you decide to build one.
>
>
> 73,
> Grumpy
>
>
> ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in
> news:pQBXk.774$nD1.745@bignews5.bellsouth.net:
>
>> Anybody here ever build a passive grid linear amp?
>> That's where you simply terminate the grid of a tetrode with a 50 ohm
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>> this to be a final for a QRP rig the larger terminating resistance
>> looked like a better way to go.  The only issue is how high can you go
>> with the termination resistance and keep the tube stable without
```

>> neutralization being required?
>>
>
That's an interesting article. He shows no matching network between his exciter and the linear so there would be a 6:1 SWR with the 300 ohm termination, though a tube type transmitter with a Pi network might still be able to load into it. Deriving the screen voltage from the rf drive seems a hybrid method of doing grounded grid. I was thinking of an amplifier with normal bias and screen supplies which would reduce the drive required.

I have a pair of used 7034's (4cx250's with glass seals) but I have no idea how much life (if any) are left in them. My idea was to build an amplifier chassis that could be used to experiment with several tube configurations. I've found a source for a 400VA toroidal power transformer with two 550v and two 6.3v (5A) secondaries and a 120/240 v primary for about $65 postpaid. In a bridge rectifier configuration with a capacitor input filter using large capacitors it should yield about 1400 volts under load. This would be a suitable plate voltage for a single 811A/572B or a 4CX250A. With the bridge rectifier configuration the center tap of the HV secondary will provide 700 volts that can be regulated down to the 300-350 volts required for the screen of a 4CX250. One of the 6v filament windings would power the tube (unless I find some 4CX250F/G's which would require an extra 25v transformer) and the other winding could be used with a voltage multiplier for the bias supply (or drive another filament transformer bassackwards for that purpose).

So I could build up a power supply and tank circuit that could serve either configuration, and swap out one of two chassis; one for a single 811A/572B and one for a 4CX250.350/400A. The target amp would be between 150 to 250 watts output (a nice afterburner for a 10-20 watt QRP rig I'm thinking about).

```
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
newsfeed.straub-nv.de!news.albasani.net!not-for-mail
From: Stev eH
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lyxdldf@tfif.co.uk>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb
Subject: Re: VoiceMax Speech Processor
Date: Thu, 27 Nov 2008 22:44:29 +0000
Organization: Digital preserves music the way that formaldehyde preserves
 frogs. You kill it, and it lasts forever
Lines: 14
Message-ID: <ggn7sd$eu2$1@news.albasani.net>
```

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References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
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X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Thu, 27 Nov 2008 22:44:29 +0000 (UTC)
X-User-ID: Wf/iK61+/iI6/DOshQv1Q3onaIfksYRSROlPDkIRImQ=
In-Reply-To: <47ae8004-a482-406b-99fb-31fb85ed9222@20g2000yqt.googlegroups.com>
Cancel-Lock: sha1:EReUdkuHhpVMQ0CudL/mzJBSwVQ=
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
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Xref: g2news1.google.com rec.radio.amateur.homebrew:1341 rec.radio.cb:4741

Tel star Electronics briangriffey@sbcglobal.net
<briangriffey@sbcglobal.net> wrote:
>> If I advertised that my company was a partner with HP (we bought the
>> computers from them) and Kenco I think they may object .......
>> Steve H
>
> Well... I can't speak for your business... but my partners are
> overjoyed that they are mentioned and have links available to their
> sites.
> www.telstar-electronics.com briangriffey@sbcglobal.net
<briangriffey@sbcglobal.net>
>
I bet they don't have a link to your site;c)

Steve H



From 1538657021970094658
X-Google-Thread: fc2a5,d52b4755bda28509
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Thu, 27 Nov 2008 17:19:46 -0600
Message-ID: <hxwGZKG+qyLJFAQq@ifwtech.co.uk>
Date: Thu, 27 Nov 2008 23:18:22 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
```

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Passive grid linear
References: <pQBXk.774$nD1.745@bignews5.bellsouth.net>
 <Xns9B63890F04B3F2MDWN@194.177.96.78>
Organization: IFWtech
MIME-Version: 1.0
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1342

Grumpy The Mule wrote:

>I've only read about them. G2DAF wrote extensively on pasive grid
>linears.
>
>I think the ultimate value of grid resistor will depend on the grid
>capacitance and layout parasitics. The articles I've read use 300 Ohms
>as the grid swamping resistor but with a 4CX250 450 Ohms might be
>possible.
>
>Here is an article you may find useful.
>http://www.radioamator.ro/articole/files/291_1.pdf
>
>I have a bucket full of 4CX250B's and would like to try passive grid
>someday. Please Let us know how yours shapes up if you decide to build
>one.

The defining feature of a G2DAF amplifier is not the untuned passive grid input, but the method of grid biasing. It has no control grid bias and the screen voltage is developed by rectifying the RF drive.

Most passive grid tetrode amplifiers use conventional fixed bias voltages on g1 and g2. Commercial examples include the Alpha 91b/99 and the Australian Emtron range.

G2DAF's published articles on amplifiers are on my web site, and the RSGB historical collection still has his original receiver, transmitter and amplifier, along with many hand-written notes. The 2 x 4-125A amplifier that featured in his published articles still exists, but at some later time he had removed the screen rectifier tubes and converted the amplifier into a very basic grounded-grid configuration.

--

73 from Ian GM3SEK
http://www.ifwtech.co.uk/g3sek

From -1502035968209813258
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Thread: 106d41,fc6cbb34a018c5bc
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From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb
Subject: Re: VoiceMax Speech Processor
Date: Thu, 27 Nov 2008 16:00:34 -0800 (PST)
Organization: http://groups.google.com
Lines: 6
Message-ID: <c227abd5-71b7-4351-aff0-f50ce28999bd@s20g2000yqh.googlegroups.com>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
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     <ggmekg$fmh$1@news.albasani.net> <47ae8004-a482-406b-99fb-31fb85ed9222@20g2000yqt.googlegroups.com>
     <ggn7sd$eu2$1@news.albasani.net>
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     InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1343 rec.radio.cb:4743

> I bet they don't have a link to your site;c)
> Steve H

That's entirely up to them...
www.telstar-electronics.com

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From -2997253404840881353
X-Google-Thread: fc2a5,d52b4755bda28509
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Passive grid linear
References: <pQBXk.774$nD1.745@bignews5.bellsouth.net>
<Xns9B63890F04B3F2MDWN@194.177.96.78> <hxwGZKG+qyLJFAQq@ifwtech.co.uk>
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Organization: BellSouth Internet Group
Date: Thu, 27 Nov 2008 19:42:15 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1344

Ian White GM3SEK wrote:
> Grumpy The Mule wrote:
>>
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>>
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>>
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>>
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>>
>
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>
```

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>
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> the amplifier into a very basic grounded-grid configuration.
>
>
>

I really don't see any advantage in his circuit over a conventional zero
bias grounded grid amp, at least not with the 4-xxx series of tubes.
With the 4CX250 series it makes some sense since these tubes CAN'T be
run in zero bias grounded grid due to the fragile grid structure in
these tubes.

From 8965710007451477046
X-Google-Thread: fc2a5,d52b4755bda28509
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 27 Nov 2008 23:00:13 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Passive grid linear
Newsgroups: rec.radio.amateur.homebrew
References: <pQBXk.774$nD1.745@bignews5.bellsouth.net>
User-Agent: Pan/0.132 (Waxed in Black)
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+IiQchTb6azP/4I=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1345

On Thu, 27 Nov 2008 13:45:33 -0500, ken scharf wrote:

> Anybody here ever build a passive grid linear amp? That's where you
> simply terminate the grid of a tetrode with a 50 ohm resistor and just
> drive it directly. Svetlana recommended that configuration with their
> 4cx400, 4xc800 and 4cx1600 tubes, and it should work well with more
> commone surplus 4cx250's.
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> I was thinking of using a 4:1 or 9:1 balum and increasing the grid
> resistor value to 200 or 450 ohms to reduce the amount of driving power
> required. With the 4cx250 a peak grid drive of about 50 volts is
> required in class AB1. With a 50 ohm termination the driving power
> would be 50 watts, with a 200 ohm termination 12.5 watts, and with the
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> in the resistor, but the tube requires less than 1 watt of drive itself
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> actual driving power might increase by a watt or two.   Since I wanted
> this to be a final for a QRP rig the larger terminating resistance
> looked like a better way to go. The only issue is how high can you go
> with the termination resistance and keep the tube stable without
> neutralization being required?

This should jump out at you with the proper circuit analysis. Just
analyze the circuit with a parallel tank load on the plate, and look for
negative resistance showing up at the grid. Your grid swamping resistor
would need to take care of the worst-case negative resistance.

Then spend a month tearing your hair out over parasitics that increase
the plate-grid coupling over and above what the data sheet says they are.

--
Tim Wescott
Control systems and communications consulting
http://www.wescottdesign.com

Need to learn how to apply control theory in your embedded system?
"Applied Control Theory for Embedded Systems" by Tim Wescott
Elsevier/Newnes, http://www.wescottdesign.com/actfes/actfes.html

From -6335375184540544 15
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From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Passive grid linear
Date: Fri, 28 Nov 2008 01:45:07 -0800 (PST)
Organization: http://groups.google.com
Lines: 45
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     Gecko/20081029 Firefox/2.0.0.18,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1346
```

On Nov 28, 12:00 am, Tim Wescott <t...@seemywebsite.com> wrote:

> On Thu, 27 Nov 2008 13:45:33 -0500, ken scharf wrote:
>
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> --
> Tim Wescott
> Control systems and communications consultinghttp://www.wescottdesign.com
>
> Need to learn how to apply control theory in your embedded system?
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> Elsevier/Newnes,http://www.wescottdesign.com/actfes/actfes.html

Hey OM:

I don't see plate grid coupling with a grounded screen and the cathode
at negative screen voltage? eh?

73 OM
n8zu

From -7825540785563244041
X-Google-Thread: fc2a5,d52b4755bda28509
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Passive grid linear
Date: Fri, 28 Nov 2008 13:27:28 +0000
Organization: Digital preserves music the way that formaldehyde preserves
 frogs. You kill it, and it lasts forever
Lines: 15
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References: <pQBXk.774$nD1.745@bignews5.bellsouth.net>
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NNTP-Posting-Date: Fri, 28 Nov 2008 13:27:28 +0000 (UTC)
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Xref: g2news1.google.com rec.radio.amateur.homebrew:1348

ken scharf wrote:

>>
> I really don't see any advantage in his circuit over a conventional zero

> bias grounded grid amp, at least not with the 4-xxx series of tubes.
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> these tubes.
You only needed 20W of drive power and a single HT supply. I have one
using a pair of 813s, 10W from my TS-120 drives it to about 200W output.

It looks to be exactly the same layout as the one on Ian's site but has
had the valve rectifiers replaced with solid state at some time.

Steve H

From 6613609085809703674
X-Google-Thread: fc2a5,d52b4755bda28509
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
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From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Passive grid linear
References: <pQBXk.774$nD1.745@bignews5.bellsouth.net>
<Xns9B63890F04B3F2MDWN@194.177.96.78> <hxwGZKG+qyLJFAQq@ifwtech.co.uk>
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Organization: BellSouth Internet Group
Date: Fri, 28 Nov 2008 09:58:13 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1349

Stev eH wrote:
> ken scharf wrote:
>
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> You only needed 20W of drive power and a single HT supply. I have one

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>
> It looks to be exactly the same layout as the one on Ian's site but has
> had the valve rectifiers replaced with solid state at some time.
>
> Steve H

200W from a PAIR of 813's? You must be running them with less than
1.5KV on the plates. That's the problem with 813's, they don't live up
to their potential (pardon the pun) unless you run them with lots of HV.
  The point though is that in conventional grounded grid (all three
'grids' grounded) you still don't need a SG supply and the drive power
should be about the same.

From -1355907141424596378
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Passive grid linear
References: <pQBXk.774$nD1.745@bignews5.bellsouth.net>
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NNTP-Posting-Date: Fri, 28 Nov 2008 09:58:20 EST
Organization: BellSouth Internet Group
Date: Fri, 28 Nov 2008 10:06:43 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1350

raypsi wrote:
> On Nov 28, 12:00 am, Tim Wescott <t...@seemywebsite.com> wrote:
>> On Thu, 27 Nov 2008 13:45:33 -0500, ken scharf wrote:
>>> Anybody here ever build a passive grid linear amp? That's where you
>>> simply terminate the grid of a tetrode with a 50 ohm resistor and just
>>> drive it directly. Svetlana recommended that configuration with their
>>> 4cx400, 4xc800 and 4cx1600 tubes, and it should work well with more
>>> commone surplus 4cx250's.
>>> I was thinking of using a 4:1 or 9:1 balum and increasing the grid

```
>>> resistor value to 200 or 450 ohms to reduce the amount of driving power
>>> required.  With the 4cx250 a peak grid drive of about 50 volts is
>>> required in class AB1.  With a 50 ohm termination the driving power
>>> would be 50 watts, with a 200 ohm  termination 12.5 watts, and with the
>>> 450 ohm termination 5.6 watts.  That's actually just the power sucked up
>>> in the resistor, but the tube requires less than 1 watt of drive itself
>>> in class AB1.  Some power might be lost in the balum, so maybe the
>>> actual driving power might increase by a watt or two.   Since I wanted
>>> this to be a final for a QRP rig the larger terminating resistance
>>> looked like a better way to go.  The only issue is how high can you go
>>> with the termination resistance and keep the tube stable without
>>> neutralization being required?
>> This should jump out at you with the proper circuit analysis.  Just
>> analyze the circuit with a parallel tank load on the plate, and look for
>> negative resistance showing up at the grid.  Your grid swamping resistor
>> would need to take care of the worst-case negative resistance.
>>
>> Then spend a month tearing your hair out over parasitics that increase
>> the plate-grid coupling over and above what the data sheet says they are.
>>
>> --
>> Tim Wescott
>> Control systems and communications consultinghttp://www.wescottdesign.com
>>
>> Need to learn how to apply control theory in your embedded system?
>> "Applied Control Theory for Embedded Systems" by Tim Wescott
>> Elsevier/Newnes,http://www.wescottdesign.com/actfes/actfes.html
>
> Hey OM:
>
> I don't see plate grid coupling with a grounded screen and the cathode
> at negative screen voltage? eh?
>
> 73 OM
> n8zu
I think he means that any feedback which would induce instability can be
translated as a negative resistance seen at the grid (all an oscillator
is after all, is a negative resistance generator).  And ANY tube
exhibits some degree of plate to grid coupling in the form of stray
capacitance between the elements.  Even Pentodes with two grounded (for
rf) elements between the plate and grid show SOME coupling (though in
the case of screen grid tubes the value is reduced to values of a few pf
or less).  The grounded grid circuit reduces the feedback even more by
introducing a phase shift as well, but some grounded grid amps still
need some neutralization (especially if you mess things up by putting 4
bottles in parallel.)


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X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g38g2000yqn.googlegroups.com!not-for-
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mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Passive grid linear
Date: Fri, 28 Nov 2008 08:39:34 -0800 (PST)
Organization: http://groups.google.com
Lines: 32
Message-ID: <ba72175f-9614-46ec-922e-7a75331dd3d5@g38g2000yqn.googlegroups.com>
References: <pQBXk.774$nD1.745@bignews5.bellsouth.net>
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NNTP-Posting-Date: Fri, 28 Nov 2008 16:39:34 +0000 (UTC)
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Xref: g2news2.google.com rec.radio.amateur.homebrew:1649

On Nov 27, 1:45=A0pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
> Anybody here ever build a passive grid linear amp?
> That's where you simply terminate the grid of a tetrode with a 50 ohm
> resistor and just drive it directly. =A0Svetlana recommended that
> configuration with their 4cx400, 4xc800 and 4cx1600 tubes, and it should
> work well with more commone surplus 4cx250's.
>
> I was thinking of using a 4:1 or 9:1 balum and increasing the grid
> resistor value to 200 or 450 ohms to reduce the amount of driving power
> required. =A0With the 4cx250 a peak grid drive of about 50 volts is
> required in class AB1. =A0With a 50 ohm termination the driving power
> would be 50 watts, with a 200 ohm =A0termination 12.5 watts, and with the
> 450 ohm termination 5.6 watts. =A0That's actually just the power sucked u=
p
> in the resistor, but the tube requires less than 1 watt of drive itself
> in class AB1. =A0Some power might be lost in the balum, so maybe the
> actual driving power might increase by a watt or two. =A0 Since I wanted
> this to be a final for a QRP rig the larger terminating resistance
> looked like a better way to go. =A0The only issue is how high can you go
> with the termination resistance and keep the tube stable without
> neutralization being required?

Ive seen one amp that I know worked using a 4cx250B using a 16:1
transformer. He used tha amp on 6M. I think he still added a little
capacitance to tune out some of the inductance in the transformers.
The best I remember he really didnt have to do this. He just did it so
he would see a perfect 1:1 SWR beteween the exciter and amp. I
modified an old 2X 6146 amp with tunned grid by ripping out the tuned
circuit and replacing it with a 200 ohm resistor. 5 watts was more

than enough drive.

Jimmie

From 9144369981097221639
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nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 28 Nov 2008 11:02:46 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Passive grid linear
Newsgroups: rec.radio.amateur.homebrew
References: <pQBXk.774$nD1.745@bignews5.bellsouth.net>
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properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:1650

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> raypsi wrote:
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>>>
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>>> Tim Wescott
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>>> consultinghttp://www.wescottdesign.com
>>>
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>>> Elsevier/Newnes,http://www.wescottdesign.com/actfes/actfes.html
>>
>> Hey OM:
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>> at negative screen voltage? eh?
>>
>> 73 OM
>> n8zu
> I think he means that any feedback which would induce instability can be
> translated as a negative resistance seen at the grid (all an oscillator
> is after all, is a negative resistance generator).

Yes, that's what I meant. And if you're looking to figure out the
largest parallel grid resistance that will still effectively swamp out
the instability, I think that's the best approach to take.

> And ANY tube
> exhibits some degree of plate to grid coupling in the form of stray
> capacitance between the elements. Even Pentodes with two grounded (for
> rf) elements between the plate and grid show SOME coupling (though in
> the case of screen grid tubes the value is reduced to values of a few pf
> or less). The grounded grid circuit reduces the feedback even more by
> introducing a phase shift as well, but some grounded grid amps still
> need some neutralization (especially if you mess things up by putting 4
> bottles in parallel.)

In theory, any tube is going to have _some_ coupling straight through the grids. In practice its probably vanishingly small.

But for many tubes you'll have to spend a long time optimizing the
physical layout of the circuit before you have more coupling through the
tube than you have around it.

--
Tim Wescott
Control systems and communications consulting
http://www.wescottdesign.com

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"Applied Control Theory for Embedded Systems" by Tim Wescott
Elsevier/Newnes, http://www.wescottdesign.com/actfes/actfes.html

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lyxdldf@tfif.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Passive grid linear
Date: Fri, 28 Nov 2008 17:49:28 +0000
Organization: Digital preserves music the way that formaldehyde preserves
 frogs. You kill it, and it lasts forever
Lines: 32
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References: <pQBXk.774$nD1.745@bignews5.bellsouth.net>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:1354

me9@privacy.net wrote:
> On 28 Nov,
>      ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net> wrote:
>
>> 200W from a PAIR of 813's?  You must be running them with less than
>> 1.5KV on the plates.  That's the problem with 813's, they don't live up
>> to their potential (pardon the pun) unless you run them with lots of HV.
>>   The point though is that in conventional grounded grid (all three
>> 'grids' grounded) you still don't need a SG supply and the drive power
>> should be about the same.
>
> I could get well over 400w (probably nearer 800w) out of mine, with 2,5-3KV
> on the anodes.
>
> With G2DAF mode I found the screen grid supply (from the RF drive) produced
> lots more TVI than when conventionally used in class AB2. That's why I
> changed. I used separate screen and bias supplies, but made sure the anode
> supply was present before the screen was energised.
>
That's with 10W of drive (From a 10W radio) and 2KV on the anode,
maximum output is around 600W with about 40W of drive.  You can wet away
with over 3KV on the anode if you are careful.
If you introduce a 4:1 transformer on the input the drive required is
far lower.
I have a KW500 with a single 813 in grounded grid, it produces 40W with
10W in and is a bad load for a transistor TX (No tuned input as it was
designed to work with a valve TX).  With passive grid you don't need a
separate tuned input for each band so it keeps it simple.

Steve H




From 5186477245879665108
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X-Google-Thread: 106d41,fc6cbb34a018c5bc
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From: cmdr buzz corey <cmdr-buzz-corey@mailcity.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb
Subject: Re: VoiceMax Speech Processor
Date: Fri, 28 Nov 2008 20:12:23 -0800 (PST)
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Xref: g2news2.google.com rec.radio.amateur.homebrew:1652 rec.radio.cb:6044

On Nov 27, 5:00 pm, Telstar Electronics <briangrif...@sbcglobal.net>
wrote:
> > I bet they don't have a link to your site;c)
> > Steve H
>
> That's entirely up to them...www.telstar-electronics.com

So did Mouser assist you in the design, or put up money to market you splatter circuit? Do they get a cut of your business? Do they sell your junk in their catalog? Or is your only partnership just that you order parts from them? Do they even know what you order parts for?

Partner with Mouser, yeah right, just more telestar hype.

From 2420207194749285814
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From: an_old_friend <konstans@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb
Subject: Re: VoiceMax Speech Processor
Date: Fri, 28 Nov 2008 22:22:38 -0800 (PST)
Organization: http://groups.google.com
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Message-ID: <8ec96ed1-1db9-4307-987d-5f47bb4bc503@j32g2000yqn.googlegroups.com>

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Xref: g2news1.google.com rec.radio.amateur.homebrew:1356 rec.radio.cb:4754
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On Nov 28, 11:12=A0pm, cmdr buzz corey <cmdr-buzz-co...@mailcity.com>
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>
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if you don't

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From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb,rec.radio.amateur.equipment
Subject: Re: VoiceMax Speech Processor
Date: Sat, 29 Nov 2008 06:44:33 -0800 (PST)
Organization: http://groups.google.com
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     <ggmekg$fmh$1@news.albasani.net> <47ae8004-
a482-406b-99fb-31fb85ed9222@20g2000yqt.googlegroups.com>
     <ggn7sd$eu2$1@news.albasani.net> <c227abd5-71b7-4351-aff0-
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f50ce28999bd@s20g2000yqh.googlegroups.com>
     <046342db-07ed-476e-875e-468d8b576a21@y1g2000pra.googlegroups.com>
NNTP-Posting-Host: 99.140.254.59
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1227969874 855 127.0.0.1 (29 Nov 2008 14:44:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 29 Nov 2008 14:44:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 20g2000yqt.googlegroups.com; posting-host=99.140.254.59;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
     .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506;
     InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1357 rec.radio.cb:4756
rec.radio.amateur.equipment:890
```

> So did Mouser assist you in the design, or put up money to market you
> splatter circuit? Do they get a cut of your business? Do they sell
> your junk in their catalog? Or is your only partnership just that you
> order parts from them? Do they even know what you order parts for?
> Partner with Mouser, yeah right, just more telestar hype.

Commander... Like I said earlier... the dictionary defines partner as
"One that is united or associated
with another or others in an activity or a sphere of common interest."
I guess you're not able to comprehend that sentence. Not really
surprising. If you're looking for an argument... I only argue with
worthwhile adversaries... lol

```
From 7873019735555681721
X-Google-Thread: fc2a5,f3d583e9669398a1,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.cpinternet!news.posted.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 29 Nov 2008 13:21:20 -0600
Date: Sat, 29 Nov 2008 13:21:34 -0600
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: CQ-TV Magazine article needed from issues 132 and 133
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <aPCdnfPoHtKtC6zUnZ2dnUVZ_j-dnZ2d@posted.cpinternet>
Lines: 9
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X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-8oU/HJr7Id2JXn8qz4c4gKj1wxdwXTEu65IIjQ1Fi05OR7/
wTBgtAEbOsHnAQ2zOQQajPdTW9GrQLuI!lpyR/
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ir6LOV6UG+XfMK6CPQ==
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1358
```

Greetings,

CQ-TV Magazine published an article in several parts entitled "Modifying the Sony HVS2000 video mixer"
sometime before 1997, in issues 132 and 133 (years not known); I would appreciate scans of this
article from someone who has those issues.

Many thanks,

Michael

```
From 8587183967219850760
X-Google-Thread: fc2a5,f3d583e9669398a1
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.cpinternet!news.posted.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 29 Nov 2008 13:27:33 -0600
Date: Sat, 29 Nov 2008 13:27:52 -0600
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CQ-TV Magazine article needed from issues 132 and 133
References: <aPCdnfPoHtKtC6zUnZ2dnUVZ_j-dnZ2d@posted.cpinternet>
In-Reply-To: <aPCdnfPoHtKtC6zUnZ2dnUVZ_j-dnZ2d@posted.cpinternet>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <dNydnShIWt44CqzUnZ2dnUVZ_rvinZ2d@posted.cpinternet>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-
wYRmKl4mxRIelxa2tt1pixSlCZ8FcfjvFdEPZBsRhsddstK0W8JBi3Zrugw0sYE+kNTZTKQ4r+QDLPS!
```

Y7Xh7OG6yzbWUDNU29iiTIoAUDwgePVtNfje7VPwgBf/YZ12PjPXqEWDpInYuQrRI/Or2S0OnYuO!
24MkrSJm/2R0SYreTS29uQ==
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1359

msg wrote:

> Greetings,
>
> CQ-TV Magazine published an article in several parts entitled "Modifying
> the Sony HVS2000 video mixer"
> sometime before 1997, in issues 132 and 133 (years not known); I would
> appreciate scans of this
> article from someone who has those issues.

Thought I'd reply to myself after a bit more diggin online; I discovered an archive of CQ-TV issues online at http://www.batc.org.uk/cq-tv/archive/

I am downloading the two issues and will report if the article is indeed found within.

Michael

From -1962384953800088385
X-Google-Thread: fc2a5,f3d583e9669398a1
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.posted.cpinternet!news.posted.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 29 Nov 2008 13:49:57 -0600
Date: Sat, 29 Nov 2008 13:50:16 -0600
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CQ-TV Magazine article needed from issues 132 and 133
References: <aPCdnfPoHtKtC6zUnZ2dnUVZ_j-dnZ2d@posted.cpinternet>
<dNydnShIWt44CqzUnZ2dnUVZ_rvinZ2d@posted.cpinternet>
In-Reply-To: <dNydnShIWt44CqzUnZ2dnUVZ_rvinZ2d@posted.cpinternet>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <kbednf1-UdB4AazUnZ2dnUVZ_qadnZ2d@posted.cpinternet>
Lines: 25
X-Usenet-Provider: http://www.giganews.com

```
NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-HpIqVOn/TjMa7KI5V/
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Nh0TQ+LsPo0dHsbZnEtEFmbGkFptUO+rHDQ4wjo+rjY/SXj8I3v4iZIzkc1laCLQfZ+EdTg9Tfcd!
b51yfSZbpvMI6qSLOQtWVA==
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1360

msg wrote:

> msg wrote:
>
>> Greetings,
>>
>> CQ-TV Magazine published an article in several parts entitled
>> "Modifying the Sony HVS2000 video mixer"
>> sometime before 1997, in issues 132 and 133 (years not known); I would
>> appreciate scans of this
>> article from someone who has those issues.
>
>
> Thought I'd reply to myself after a bit more diggin online; I discovered
> an archive of CQ-TV issues online at http://www.batc.org.uk/cq-tv/archive/
>
> I am downloading the two issues and will report if the article is indeed
> found within.
>

Indeed, it is there.  I was initially confused by the title of the
publication, expecting that it was an offshoot of "CQ Magazine" but indeed no,
it is a British ATV publication and thankfully fully archived at the above site.

Michael


From -1275314961693741581
X-Google-Thread: fc2a5,74f5e6f0487df3c7,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.cpinternet!news.posted.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 29 Nov 2008 13:58:15 -0600
Date: Sat, 29 Nov 2008 13:58:34 -0600
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
```

MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Sony HVS-2000 luma keyer (used in ATV projects) svc manual or schematic needed
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <rdKdnUY-yLFKA6zUnZ2dnUVZ_gWdnZ2d@posted.cpinternet>
Lines: 9
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-zGYTbaEA1ZNN3EQnSwnRU/8kKKCAtkRfFhYDdKA8M2by/
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isd2uUAYQHanl+5bM3pXA7HQvcoHlUyuU+Nih2SVtX2zNZfTKwPUhqUSi0LQ4v8k9ryHWLm2MwL+!
lw+w3Y05blGMWGMC4qY8og==
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1361

On the off chance that a reader of this newsgroup has worked with the Sony HVS-2000 luma keyer and has the manual with schematics, I would appreciate some scans ;) (I am aware of commercial manual sellers online who list the service manual, one of which offers a pdf version; has anyone seen that one?)

Many thanks,

Michael

From -7848382386660556012
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Thread: 106d41,fc6cbb34a018c5bc
X-Google-Thread: 108122,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,gid106d41,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!t11g2000yqg.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb,rec.radio.amateur.equipment
Subject: Re: VoiceMax Speech Processor
Date: Sat, 29 Nov 2008 13:34:31 -0800 (PST)
Organization: http://groups.google.com
Lines: 19
Message-ID: <00da575c-7189-4369-8eed-bc0b7a9ea78f@t11g2000yqg.googlegroups.com>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
<10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
<tZgXk.6309$W06.728@flpi148.ffdc.sbc.com> <020a50e0-c5ad-4a71-8e59-eb90b328855d@z1g2000yqn.googlegroups.com>
<ggmekg$fmh$1@news.albasani.net> <47ae8004-

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     <ggn7sd$eu2$1@news.albasani.net> <c227abd5-71b7-4351-aff0-
f50ce28999bd@s20g2000yqh.googlegroups.com>
     <046342db-07ed-476e-875e-468d8b576a21@y1g2000pra.googlegroups.com>
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Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227994471 4846 127.0.0.1 (29 Nov 2008 21:34:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 29 Nov 2008 21:34:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t11g2000yqg.googlegroups.com; posting-host=155.178.6.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1362 rec.radio.cb:4757
rec.radio.amateur.equipment:891

On Nov 29, 9:44=A0am, Telstar Electronics <briangrif...@sbcglobal.net>
wrote:
> > So did Mouser assist you in the design, or put up money to market you
> > splatter circuit? Do they get a cut of your business? Do they sell
> > your junk in their catalog? Or is your only partnership just that you
> > order parts from them? Do they even know what you order parts for?
> > Partner with Mouser, yeah right, just more telestar hype.
>
> Commander... Like I said earlier... the dictionary defines partner as
> "One that is united or associated
> with another or others in an activity or a sphere of common interest."
> I guess you're not able to comprehend that sentence. Not really
> surprising. If you're looking for an argument... I only argue with
> worthwhile adversaries... lol

Perhaps Mouser should be informed of this claim to partnership. They
may very interested.

Jimmie



From -4152022338368271309
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Thread: 106d41,fc6cbb34a018c5bc
X-Google-Thread: 108122,fc6cbb34a018c5bc
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!news-
xxxfer.readnews.com!news-out.readnews.com!postnews3.readnews.com!
nr5c.newsreader.com.POSTED!not-for-mail
Subject: Re: VoiceMax Speech Processor
From: Steve <moparholic@hotmail.com>
```

```
Organization: essb audio
Message-ID: <20081129174111.728$gv@newsreader.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb,rec.radio.amateur.equipment
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
<10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
<tZgXk.6309$W06.728@flpi148.ffdc.sbc.com> <020a50e0-c5ad-4a71-8e59-
eb90b328855d@z1g2000yqn.googlegroups.com> <ggmekg$fmh$1@news.albasani.net>
<47ae8004-a482-406b-99fb-31fb85ed9222@20g2000yqt.googlegroups.com>
<ggn7sd$eu2$1@news.albasani.net> <c227abd5-71b7-4351-aff0-
f50ce28999bd@s20g2000yqh.googlegroups.com>
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<00da575c-7189-4369-8eed-bc0b7a9ea78f@t11g2000yqg.googlegroups.com>
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Date: 29 Nov 2008 22:42:06 GMT
Lines: 25
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P8;AJZT_XiPj?_P130jZ
X-Complaints-To: abuse@newsreader.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:1363 rec.radio.cb:4759
rec.radio.amateur.equipment:892

JIMMIE <jimmie68@gmail.com> wrote:
> On Nov 29, 9:44=A0am, Telstar Electronics <briangrif...@sbcglobal.net>
> wrote:
> > > So did Mouser assist you in the design, or put up money to market you
> > > splatter circuit? Do they get a cut of your business? Do they sell
> > > your junk in their catalog? Or is your only partnership just that you
> > > order parts from them? Do they even know what you order parts for?
> > > Partner with Mouser, yeah right, just more telestar hype.
> >
> > Commander... Like I said earlier... the dictionary defines partner as
> > "One that is united or associated
> > with another or others in an activity or a sphere of common interest."
> > I guess you're not able to comprehend that sentence. Not really
> > surprising. If you're looking for an argument... I only argue with
> > worthwhile adversaries... lol
>
> Perhaps Mouser should be informed of this claim to partnership. They
> may very interested.
>
> Jimmie
>
Oh no, are you going to report him to Mouser?

-- 
                 http://NewsReader.Com/


From 1298995197343395387
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Thread: 106d41,fc6cbb34a018c5bc
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X-Google-Thread: 108122,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,gid106d41,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news.glorb.com!goblin2!goblin1!
goblin.stu.neva.ru!egsner!news.cirr.com!sdf.lonestar.org!sdog2008
From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb,rec.radio.amateur.equipment
Subject: Re: VoiceMax Speech Processor
Date: Sat, 29 Nov 2008 23:23:21 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 63
Message-ID: <Pine.NEB.4.64.0811292318210.22660@sdf.lonestar.org>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
  <10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
 <tZgXk.6309$W06.728@flpi148.ffdc.sbc.com>
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  <ggn7sd$eu2$1@news.albasani.net> <c227abd5-71b7-4351-aff0-
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NNTP-Posting-Host: sdf.lonestar.org
Mime-Version: 1.0
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X-Trace: chessie.cirr.com 1228001010 23755 192.94.73.1 (29 Nov 2008 23:23:30 GMT)
X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Sat, 29 Nov 2008 23:23:30 +0000 (UTC)
In-Reply-To: <00da575c-7189-4369-8eed-bc0b7a9ea78f@t11g2000yqg.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1364 rec.radio.cb:4760
rec.radio.amateur.equipment:893

  This message is in MIME format.  The first part should be readable text,
  while the remaining parts are likely unreadable without MIME-aware tools.

--0-678719977-1228001001=:22660
Content-Type: TEXT/PLAIN; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: QUOTED-PRINTABLE



On Sat, 29 Nov 2008, JIMMIE wrote:

> Date: Sat, 29 Nov 2008 13:34:31 -0800 (PST)
> From: JIMMIE <jimmie68@gmail.com>
> Newsgroups: rec.radio.amateur.homebrew, rec.radio.cb,
>     rec.radio.amateur.equipment
> Subject: Re: VoiceMax Speech Processor
>=20
> On Nov 29, 9:44=A0am, Telstar Electronics <briangrif...@sbcglobal.net>
> wrote:
>>> So did Mouser assist you in the design, or put up money to market you
>>> splatter circuit? Do they get a cut of your business? Do they sell
>>> your junk in their catalog? Or is your only partnership just that you
>>> order parts from them? Do they even know what you order parts for?
>>> Partner with Mouser, yeah right, just more telestar hype.
>>
>> Commander... Like I said earlier... the dictionary defines partner as
>> "One that is united or associated
>> with another or others in an activity or a sphere of common interest."
>> I guess you're not able to comprehend that sentence. Not really
>> surprising. If you're looking for an argument... I only argue with
>> worthwhile adversaries... lol
>
> Perhaps Mouser should be informed of this claim to partnership. They
> may very interested.
>
> Jimmie
>

Maybe not "informed" but ask people THERE, at Mouser, what their=20
"definition" of _partner_ is and then tell them about this guy.

"Dictionary" definitions should not be confused with word usage within=20
contexts that alter the meaning of words. For example, the word=20
_sterilize_ has a different meaning in banking/finance compared to=20
microbiology.

In a business context, "partners"  generally implies that an ongoing=20
relationship exists by virtue of a written contract. If party A buys parts=
=20
from party B, and pays for those parts with money, that establishes a=20
provider-customer relationship, not a partnership.
```

```
--0-678719977-1228001001=:22660--
```

```
From 2461175746736191389
X-Google-Thread: 106d41,fc6cbb34a018c5bc
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Thread: 108122,fc6cbb34a018c5bc
X-Google-Attributes: gid106d41,gidfc2a5,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news2!news.cse.ohio-
state.edu!pitt.edu!egsner!news.cirr.com!sdf.lonestar.org!sdog2008
```

From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: Re: VoiceMax Speech Processor
Date: Sat, 29 Nov 2008 23:29:31 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 98
Message-ID: <Pine.NEB.4.64.0811292329230.22660@sdf.lonestar.org>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
 <10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
 <tZgXk.6309$W06.728@flpi148.ffdc.sbc.com>
NNTP-Posting-Host: sdf.lonestar.org
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: chessie.cirr.com 1228001378 23840 192.94.73.1 (29 Nov 2008 23:29:38 GMT)
X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Sat, 29 Nov 2008 23:29:38 +0000 (UTC)
In-Reply-To: <tZgXk.6309$W06.728@flpi148.ffdc.sbc.com>
Xref: g2news1.google.com rec.radio.cb:4761 rec.radio.amateur.homebrew:1365
rec.radio.amateur.equipment:894

On Wed, 26 Nov 2008, Rectifier wrote:

> Date: Wed, 26 Nov 2008 12:56:20 -0600
> From: Rectifier <redgranite_2000@yahoo.com>
> Newsgroups: rec.radio.cb, rec.radio.amateur.homebrew,
>   rec.radio.amateur.equipment
> Subject: Re: VoiceMax Speech Processor
>
>
> "cmdr buzz corey" <cmdr-buzz-corey@mailcity.com> wrote in message
> news:10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com...
>> On Nov 14, 5:13 am, Telstar Electronics <briangrif...@sbcglobal.net>
>> wrote:
>>> The VoiceMax speech processor is not for everyone...
>>> It's only for radio operators that want maximum range from their rig.
>>
>> Along with maximum splatter.
>
>
> LOL.
>
> His website claims that Mouser Electronics is a "partner." Searches on
> Mouser for "Telstar" and "VoiceMax" return zero results. Hmm. . does buying
> some parts from Mouser make them a "partner." If so, I'm a "partner" with
> Mouser, too.
>
> LOL
>
> LOL
>

I have their 2008 sept-oct catalog and "Telstar" is not listed in the supplier index at the end.

Does Telstar provide any kind of study data that defines what "maximum range from their rig" actually means?

And documents that the processor actually does something measurably beneficial at the receive end?

```
From -984598329462969916
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Thread: 106d41,fc6cbb34a018c5bc
X-Google-Thread: 108122,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,gid106d41,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!20g2000yqt.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb,rec.radio.amateur.equipment
Subject: Re: VoiceMax Speech Processor
Date: Sat, 29 Nov 2008 16:29:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 49
Message-ID: <64be9677-e7b2-4152-a4dc-f3c2db8730fa@20g2000yqt.googlegroups.com>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
     <10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
     <tZgXk.6309$W06.728@flpi148.ffdc.sbc.com> <020a50e0-c5ad-4a71-8e59-
eb90b328855d@z1g2000yqn.googlegroups.com>
     <ggmekg$fmh$1@news.albasani.net> <47ae8004-
a482-406b-99fb-31fb85ed9222@20g2000yqt.googlegroups.com>
     <ggn7sd$eu2$1@news.albasani.net> <c227abd5-71b7-4351-aff0-
f50ce28999bd@s20g2000yqh.googlegroups.com>
     <046342db-07ed-476e-875e-468d8b576a21@y1g2000pra.googlegroups.com>
     <190175b5-13d0-4767-9d43-4adb2874f545@20g2000yqt.googlegroups.com>
     <00da575c-7189-4369-8eed-bc0b7a9ea78f@t11g2000yqg.googlegroups.com>
     <20081129174111.728$gv@newsreader.com>
NNTP-Posting-Host: 155.178.4.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1228004968 2979 127.0.0.1 (30 Nov 2008 00:29:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 30 Nov 2008 00:29:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 20g2000yqt.googlegroups.com; posting-host=155.178.4.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1663 rec.radio.cb:6053
rec.radio.amateur.equipment:1109

On Nov 29, 5:42=A0pm, Steve <moparho...@hotmail.com> wrote:
> JIMMIE <jimmi...@gmail.com> wrote:
> > On Nov 29, 9:44=3DA0am, Telstar Electronics <briangrif...@sbcglobal.net=
>
> > wrote:
> > > > So did Mouser assist you in the design, or put up money to market y=
ou
> > > > splatter circuit? Do they get a cut of your business? Do they sell
> > > > your junk in their catalog? Or is your only partnership just that y=
ou
> > > > order parts from them? Do they even know what you order parts for?
> > > > Partner with Mouser, yeah right, just more telestar hype.
>
> > > Commander... Like I said earlier... the dictionary defines partner as
> > > "One that is united or associated
> > > with another or others in an activity or a sphere of common interest.=
"
> > > I guess you're not able to comprehend that sentence. Not really
> > > surprising. If you're looking for an argument... I only argue with
> > > worthwhile adversaries... lol
>
> > Perhaps Mouser should be informed of this claim to partnership. They
> > may very interested.
>
> > Jimmie
>
> Oh no, are you going to report him to Mouser?
>
> --
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0http://NewsReader.Com/- Hide quoted te=
xt -
>
> - Show quoted text -

The last I heard a partnership required a legal agreement between two
or more parties agreeing to be parters. It may be a case of the powers
that be at Mouser asking themselves "Can I make more money off of
Telstar by doing business with or by taking legal actioon against
Telstar".

I once had a similar complaint lodged against me when I had my own
business because my sign and letterhead read ....serving in
partnership with a well known electronics supply firm. I manage to get
away with it because they had sent me a letter after I had opened my
account with them stating how they "anticipated serving in partnership
with my business". I had based my shingle on this quote.


Jimmie
```

From -4716662886625307716
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Thread: 106d41,fc6cbb34a018c5bc
X-Google-Thread: 108122,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,gid106d41,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!news.glorb.com!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb,rec.radio.amateur.equipment
Subject: Re: VoiceMax Speech Processor
Date: Sun, 30 Nov 2008 02:58:43 +0100 (CET)
Organization: Mostly In Piles
Lines: 55
Message-ID: <Xns9B65CB3B5C2D52MDWN@194.177.96.78>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
<10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
<tZgXk.6309$W06.728@flpi148.ffdc.sbc.com> <020a50e0-c5ad-4a71-8e59-eb90b328855d@z1g2000yqn.googlegroups.com> <ggmekg$fmh$1@news.albasani.net>
<47ae8004-a482-406b-99fb-31fb85ed9222@20g2000yqt.googlegroups.com>
<ggn7sd$eu2$1@news.albasani.net> <c227abd5-71b7-4351-aff0-f50ce28999bd@s20g2000yqh.googlegroups.com>
<046342db-07ed-476e-875e-468d8b576a21@y1g2000pra.googlegroups.com>
<190175b5-13d0-4767-9d43-4adb2874f545@20g2000yqt.googlegroups.com>
<00da575c-7189-4369-8eed-bc0b7a9ea78f@t11g2000yqg.googlegroups.com>
<Pine.NEB.4.64.0811292318210.22660@sdf.lonestar.org>
NNTP-Posting-Host: bjSA4AVnj21JsSLsyXOV0A.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Sun, 30 Nov 2008 01:58:43 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.5
Xref: g2news1.google.com rec.radio.amateur.homebrew:1367 rec.radio.cb:4763
rec.radio.amateur.equipment:896

There are no federal laws in the USA governing partnerships.
It may be covered by some state law where Mouser is incorporated.
The issue is trademark infringement. Something most companies
take quite seriously.

Stray Dog <sdog2008@sdf.lonestar.org> wrote in
news:Pine.NEB.4.64.0811292318210.22660@sdf.lonestar.org:

>
> On Sat, 29 Nov 2008, JIMMIE wrote:
>
>> Date: Sat, 29 Nov 2008 13:34:31 -0800 (PST)
>> From: JIMMIE <jimmie68@gmail.com>
>> Newsgroups: rec.radio.amateur.homebrew, rec.radio.cb,
>>   rec.radio.amateur.equipment

```
>> Subject: Re: VoiceMax Speech Processor
>>
>> On Nov 29, 9:44�am, Telstar Electronics <briangrif...@sbcglobal.net>
>> wrote:
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>
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> contexts that alter the meaning of words. For example, the word
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>
> In a business context, "partners"  generally implies that an ongoing
> relationship exists by virtue of a written contract. If party A buys
> parts from party B, and pays for those parts with money, that
> establishes a provider-customer relationship, not a partnership.



From 6703633171731167581
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Thread: 106d41,fc6cbb34a018c5bc
X-Google-Thread: 108122,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,gid106d41,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-xfer.nntp.sonic.net!
news.alt.net!transit4.readnews.com!news-out.readnews.com!postnews3.readnews.com!
nr5c.newsreader.com.POSTED!not-for-mail
Subject: Re: VoiceMax Speech Processor
From: Steve <moparholic@hotmail.com>
Organization: essb audio
Message-ID: <20081129215210.672$0g@newsreader.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb,rec.radio.amateur.equipment
```

```
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
<10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
<tZgXk.6309$W06.728@flpi148.ffdc.sbc.com> <020a50e0-c5ad-4a71-8e59-
eb90b328855d@z1g2000yqn.googlegroups.com> <ggmekg$fmh$1@news.albasani.net>
<47ae8004-a482-406b-99fb-31fb85ed9222@20g2000yqt.googlegroups.com>
<ggn7sd$eu2$1@news.albasani.net> <c227abd5-71b7-4351-aff0-
f50ce28999bd@s20g2000yqh.googlegroups.com>
<046342db-07ed-476e-875e-468d8b576a21@y1g2000pra.googlegroups.com>
<190175b5-13d0-4767-9d43-4adb2874f545@20g2000yqt.googlegroups.com>
<00da575c-7189-4369-8eed-bc0b7a9ea78f@t11g2000yqg.googlegroups.com>
<20081129174111.728$gv@newsreader.com> <64be9677-e7b2-4152-a4dc-
f3c2db8730fa@20g2000yqt.googlegroups.com>
X-NRC-Trace: NewsReader.Com iUcAV16StGxNJH4r=3leat48,dwQ2F1N,e=gXk_AwAVlZwUve.
Date: 30 Nov 2008 02:53:05 GMT
Lines: 15
NNTP-Posting-Host: 22e0ff94.nr5c.newsreader.com
X-Trace: DXC=Jgcml9joddHV9NL5`XOACGTBAE>]OkP]M_3knc<U@l\Hmg7f1SY3d1Ch?
P8;AJZT_HJgkdf8]I?\D
X-Complaints-To: abuse@newsreader.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:1368 rec.radio.cb:4764
rec.radio.amateur.equipment:897

JIMMIE <jimmie68@gmail.com> wrote:
 <snip>
> I had based my shingle on this quote.
>
> Jimmie
>
I hear you Jimmie, the simple fact is Brian uses google to cross post/spew
his product. As far as I know they don't give a flying rats ass about
usenet abuse.

I say no one is buying it anyway so let Brian carry on from his parents
basement. No harm no foul.

--
                 http://NewsReader.Com/


From -3555849970636632466
X-Google-Thread: fc2a5,3b4f73404c92d22b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!20g2000yqt.googlegroups.com!not-for-
mail
From: just_rtfm@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hellenedyne: a new type of regen-reflex radio
Date: Sat, 29 Nov 2008 21:08:51 -0800 (PST)
Organization: http://groups.google.com
Lines: 10
Message-ID: <88e31052-a3ab-4de1-9789-98eb844916a7@20g2000yqt.googlegroups.com>
References: <e26d552c-9837-4a9f-aea8-49f4de517652@k16g2000hsf.googlegroups.com>
```

```
     <6fc112f2-646f-41af-9939-c237d3866967@y21g2000hsf.googlegroups.com>
NNTP-Posting-Host: 71.207.5.252
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1228021731 15940 127.0.0.1 (30 Nov 2008 05:08:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 30 Nov 2008 05:08:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 20g2000yqt.googlegroups.com; posting-host=71.207.5.252;
     posting-account=HOm27AoAAADi0W5mB5I30A_1_jxK7WVv
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.9)
     Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1666
```

hi n8zu!

you're very welcome. sorry for the late response: i'm not on usenet
much. wow your supply idea is great. btw, i posted a more reproducible
version of the Hellenedyne and some related PDFs:

http://home.comcast.net/~phils_radio_designs/

regards,
phil :)

```
From -41604778495176075
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!o2g2000yqd.googlegroups.com!not-for-
mail
From: an_old_friend <konstans@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb,rec.radio.amateur.equipment
Subject: Re: VoiceMax Speech Processor
Date: Sat, 29 Nov 2008 23:57:19 -0800 (PST)
Organization: http://groups.google.com
Lines: 18
Message-ID: <4b4115ee-39f2-4e2f-824a-9c504bab9d18@o2g2000yqd.googlegroups.com>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
     <10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
     <tZgXk.6309$W06.728@flpi148.ffdc.sbc.com> <020a50e0-c5ad-4a71-8e59-
eb90b328855d@z1g2000yqn.googlegroups.com>
     <ggmekg$fmh$1@news.albasani.net> <47ae8004-
a482-406b-99fb-31fb85ed9222@20g2000yqt.googlegroups.com>
     <ggn7sd$eu2$1@news.albasani.net> <c227abd5-71b7-4351-aff0-
f50ce28999bd@s20g2000yqh.googlegroups.com>
     <046342db-07ed-476e-875e-468d8b576a21@y1g2000pra.googlegroups.com>
     <190175b5-13d0-4767-9d43-4adb2874f545@20g2000yqt.googlegroups.com>
     <00da575c-7189-4369-8eed-bc0b7a9ea78f@t11g2000yqg.googlegroups.com>
     <20081129174111.728$gv@newsreader.com> <64be9677-e7b2-4152-a4dc-
```

```
f3c2db8730fa@20g2000yqt.googlegroups.com>
     <20081129215210.672$0g@newsreader.com>
NNTP-Posting-Host: 69.19.14.18
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1228031840 11046 127.0.0.1 (30 Nov 2008 07:57:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 30 Nov 2008 07:57:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o2g2000yqd.googlegroups.com; posting-host=69.19.14.18;
     posting-account=10Pv3QoAAAAjTC9fwUuRD-bApJtUG_pO
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1667 rec.radio.cb:6060
rec.radio.amateur.equipment:1112

On Nov 29, 9:53=A0pm, Steve <moparho...@hotmail.com> wrote:
> JIMMIE <jimmi...@gmail.com> wrote:
>
> =A0<snip>> I had based my shingle on this quote.
>
> > Jimmie
>
> I hear you Jimmie, the simple fact is Brian uses google to cross post/spe=
w
> his product. As far as I know they don't give a flying rats ass about
> usenet abuse.
>
> I say no one is buying it anyway so let Brian carry on from his parents
> basement. No harm no foul.

the problem is certainly guy seem to have a case of OCD concernign him
and he uses them to ppormote his product a nice way of making
lemonaide of that problem


From -2410588559989907591
X-Google-Thread: fc2a5,be0eb912426ab0f,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!z1g2000yqn.googlegroups.com!not-for-
mail
From: ronayling@hotmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Old Practical Wireless article wanted
Date: Sun, 30 Nov 2008 01:27:11 -0800 (PST)
Organization: http://groups.google.com
Lines: 5
Message-ID: <5ca58f68-a145-4b32-abf3-f4e308af1d38@z1g2000yqn.googlegroups.com>
NNTP-Posting-Host: 88.105.114.31
Mime-Version: 1.0
```

Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1228037231 26999 127.0.0.1 (30 Nov 2008 09:27:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 30 Nov 2008 09:27:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z1g2000yqn.googlegroups.com; posting-host=88.105.114.31;
posting-account=KI1yZAoAAACCQ7qRQHQ3SxAmKDb7NXct
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1668

Hi, I'm looking for an article that was in an old Practical Wireless
magazine about early to mid 50's it was about a simple two valve HF
transmitter, it was unusual as the chassis was made of Hardboard!! I'd
very much appreciate a scan if anyone can find it, or possible an idea
of the month and year of the article, thanks from Ron G3YUH...

From -7189867566151076199
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Thread: 106d41,fc6cbb34a018c5bc
X-Google-Thread: 108122,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,gid106d41,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
t2g2000yqm.googlegroups.com!not-for-mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb,rec.radio.amateur.equipment
Subject: Re: VoiceMax Speech Processor
Date: Sun, 30 Nov 2008 08:52:09 -0800 (PST)
Organization: http://groups.google.com
Lines: 7
Message-ID: <2c347ec8-5acd-4c17-8ec9-f6457140e91b@t2g2000yqm.googlegroups.com>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
<10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
<tZgXk.6309$W06.728@flpi148.ffdc.sbc.com> <020a50e0-c5ad-4a71-8e59-
eb90b328855d@z1g2000yqn.googlegroups.com>
<ggmekg$fmh$1@news.albasani.net> <47ae8004-
a482-406b-99fb-31fb85ed9222@20g2000yqt.googlegroups.com>
<ggn7sd$eu2$1@news.albasani.net> <c227abd5-71b7-4351-aff0-
f50ce28999bd@s20g2000yqh.googlegroups.com>
<046342db-07ed-476e-875e-468d8b576a21@y1g2000pra.googlegroups.com>
<190175b5-13d0-4767-9d43-4adb2874f545@20g2000yqt.googlegroups.com>
<00da575c-7189-4369-8eed-bc0b7a9ea78f@t11g2000yqg.googlegroups.com>
NNTP-Posting-Host: 99.140.254.59
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1228063930 3725 127.0.0.1 (30 Nov 2008 16:52:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 30 Nov 2008 16:52:10 +0000 (UTC)

```
Complaints-To: groups-abuse@google.com
Injection-Info: t2g2000yqm.googlegroups.com; posting-host=99.140.254.59;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
     .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506;
     InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1372 rec.radio.cb:4770
rec.radio.amateur.equipment:901
```

> Perhaps Mouser should be informed of this claim to partnership. They
> may very interested.
> Jimmie

Yes Jimmie-boy... I think you should alert them immediately... lol
www.telstar-electronics.com

```
From -1516706813203718004
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
l42g2000yqe.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor
Date: Sun, 30 Nov 2008 14:38:33 -0800 (PST)
Organization: http://groups.google.com
Lines: 66
Message-ID: <648df768-0d81-40d7-972e-027e18c6571b@l42g2000yqe.googlegroups.com>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
     <10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
     <tZgXk.6309$W06.728@flpi148.ffdc.sbc.com> <020a50e0-c5ad-4a71-8e59-
eb90b328855d@z1g2000yqn.googlegroups.com>
     <ggmekg$fmh$1@news.albasani.net> <47ae8004-
a482-406b-99fb-31fb85ed9222@20g2000yqt.googlegroups.com>
     <ggn7sd$eu2$1@news.albasani.net> <c227abd5-71b7-4351-aff0-
f50ce28999bd@s20g2000yqh.googlegroups.com>
     <046342db-07ed-476e-875e-468d8b576a21@y1g2000pra.googlegroups.com>
     <190175b5-13d0-4767-9d43-4adb2874f545@20g2000yqt.googlegroups.com>
     <00da575c-7189-4369-8eed-bc0b7a9ea78f@t11g2000yqg.googlegroups.com>
     <Pine.NEB.4.64.0811292318210.22660@sdf.lonestar.org>
<Xns9B65CB3B5C2D52MDWN@194.177.96.78>
NNTP-Posting-Host: 155.178.4.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1228084713 30060 127.0.0.1 (30 Nov 2008 22:38:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 30 Nov 2008 22:38:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
```

```
Injection-Info: l42g2000yqe.googlegroups.com; posting-host=155.178.4.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1373

On Nov 29, 8:58=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> There are no federal laws in the USA governing partnerships.
> It may be covered by some state law where Mouser is incorporated.
> The issue is trademark infringement. =A0Something most companies
> take quite seriously.
>
> Stray Dog <sdog2...@sdf.lonestar.org> wrote innews:Pine.NEB.4.64.08112923=
18210.22660@sdf.lonestar.org:
>
>
>
>
>
> > On Sat, 29 Nov 2008, JIMMIE wrote:
>
> >> Date: Sat, 29 Nov 2008 13:34:31 -0800 (PST)
> >> From: JIMMIE <jimmi...@gmail.com>
> >> Newsgroups: rec.radio.amateur.homebrew, rec.radio.cb,
> >> =A0 =A0 rec.radio.amateur.equipment
> >> Subject: Re: VoiceMax Speech Processor
>
> >> On Nov 29, 9:44=A0am, Telstar Electronics <briangrif...@sbcglobal.net>
> >> wrote:
> >>>> So did Mouser assist you in the design, or put up money to market
> >>>> you splatter circuit? Do they get a cut of your business? Do they
> >>>> sell your junk in their catalog? Or is your only partnership just
> >>>> that you order parts from them? Do they even know what you order
> >>>> parts for? Partner with Mouser, yeah right, just more telestar
> >>>> hype.
>
> >>> Commander... Like I said earlier... the dictionary defines partner
> >>> as "One that is united or associated
> >>> with another or others in an activity or a sphere of common
> >>> interest." I guess you're not able to comprehend that sentence. Not
> >>> really surprising. If you're looking for an argument... I only argue
> >>> with worthwhile adversaries... lol
>
> >> Perhaps Mouser should be informed of this claim to partnership. They
> >> may very interested.
>
> >> Jimmie
>
> > Maybe not "informed" but ask people THERE, at Mouser, what their
> > "definition" of _partner_ is and then tell them about this guy.
>
> > "Dictionary" definitions should not be confused with word usage within
```

> > contexts that alter the meaning of words. For example, the word
> > _sterilize_ has a different meaning in banking/finance compared to
> > microbiology.
>
> > In a business context, "partners" =A0generally implies that an ongoing
> > relationship exists by virtue of a written contract. If party A buys
> > parts from party B, and pays for those parts with money, that
> > establishes a provider-customer relationship, not a partnership.- Hide =
quoted text -
>
> - Show quoted text -

Trademark infrindgement was there complaint against me. I was young
and more foolish than I am now and thought the little blurb on my
shingle would be funny and no one would even notice. They noticed and
didnt think my humor was that funny. For me it only took about 10
minutes and some black paint to remedy the problem.

Jimmie

From -887359947363871568
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Thread: 106d41,fc6cbb34a018c5bc
X-Google-Thread: 108122,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,gid106d41,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!nntpserver.com!zeus.nntpserver.com!pfilter-
v0.1!news.teranews.com!not-for-mail
From: kb9rqz@yahoo.com
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb,rec.radio.amateur.equipment
Subject: Re: VoiceMax Speech Processor
Date: Sun, 30 Nov 2008 17:01:37 -0500
Message-ID: <u836j4db2v49muee1441f0tj95hhnsv5a9@4ax.com>
References: <ggmekg$fmh$1@news.albasani.net> <47ae8004-
a482-406b-99fb-31fb85ed9222@20g2000yqt.googlegroups.com>
<ggn7sd$eu2$1@news.albasani.net> <c227abd5-71b7-4351-aff0-
f50ce28999bd@s20g2000yqh.googlegroups.com>
<046342db-07ed-476e-875e-468d8b576a21@y1g2000pra.googlegroups.com>
<190175b5-13d0-4767-9d43-4adb2874f545@20g2000yqt.googlegroups.com>
<00da575c-7189-4369-8eed-bc0b7a9ea78f@t11g2000yqg.googlegroups.com>
<2c347ec8-5acd-4c17-8ec9-f6457140e91b@t2g2000yqm.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@teranews.com
Organization: www.TeraNews.com
Lines: 28
NNTP-Posting-Date: Sun, 30 Nov 2008 16:58:29 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1374 rec.radio.cb:4784

```
rec.radio.amateur.equipment:903

On Sun, 30 Nov 2008 08:52:09 -0800 (PST), Telstar Electronics
<briangriffey@sbcglobal.net> wrote:

>> Perhaps Mouser should be informed of this claim to partnership. They
>> may very interested.
>> Jimmie
>
>Yes Jimmie-boy... I think you should alert them immediately... lol
>www.telstar-electronics.com


I don't personaly see much need for your product but I do enjoy the
way you make lemonaide of your detractors

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act
** Posted from http://www.teranews.com **


From 7715198320761813405
X-Google-Thread: fc2a5,b95dec3d20a255fd,start
X-Google-Thread: 107ada,b95dec3d20a255fd,start
X-Google-Thread: 110c99,b95dec3d20a255fd,start
X-Google-Thread: 111320,b95dec3d20a255fd,start
X-Google-Attributes:
gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!f3g2000yqf.googlegroups.com!not-for-
mail
From: elvinabr@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: Females love to show off in front of their webcams
Date: Mon, 1 Dec 2008 07:03:25 -0800 (PST)
Organization: http://groups.google.com
Lines: 1
Message-ID: <b8ce10db-378c-4ac2-81a5-f4fb023239ac@f3g2000yqf.googlegroups.com>
NNTP-Posting-Host: 92.112.204.237
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1228143806 2851 127.0.0.1 (1 Dec 2008 15:03:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 1 Dec 2008 15:03:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f3g2000yqf.googlegroups.com; posting-host=92.112.204.237;
     posting-account=Iq4AEgoAAAAzw2EHegLKObvlQ62MXhS6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:905
rec.radio.amateur.homebrew:1375 rec.radio.amateur.misc:1605 rec.running:5465
rec.scouting.issues:948

Females love webcams http://westsex.withsex.com



From -8915738597864493646
X-Google-Thread: fc2a5,ffb4995423606c03
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!r40g2000yqj.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Doubling
Date: Mon, 1 Dec 2008 09:25:21 -0800 (PST)
Organization: http://groups.google.com
Lines: 17
Message-ID: <2a6063fd-4cde-4a57-b2ae-49dc10b827f4@r40g2000yqj.googlegroups.com>
References: <gg7qs402stp@news1.newsguy.com> <DPedndJHQ50Ho7PUnZ2dnUVZ_tzinZ2d@web-
ster.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1228152322 26433 127.0.0.1 (1 Dec 2008 17:25:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 1 Dec 2008 17:25:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r40g2000yqj.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1673

On Nov 27, 1:30=A0am, Tim Wescott <t...@seemywebsite.com> wrote:
> I don't have a lot of reference material to look at, but I don't think
> that using a crystal's overtones to generate RF really picked up until
```

> the 50's (it was probably done during WW-II, but I only see it put forth
> as a common method starting with my '50's ARRL handbooks).

In 1930's QST's it's not too uncommon to see neophytes warned that
crystals will often oscillate on something other than their marked
frequency. They didn't call this overtone operation, though.

BC-604's (WWII era) start with a ridiculously low crystal (400ish kHz)
frequency and multiply up but I think the reason for this is more to
do with FM deviation than anything else. ("Armstrong method"?) For
many decades, broadcast FM stations similarly started with low crystal
frequencies and multiplied up.

Tim.

From 1859186578067519725
X-Google-Thread: fc2a5,ffb4995423606c03
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Doubling
Date: Mon, 01 Dec 2008 18:06:28 +0000
Organization: Bias Comms
Lines: 35
Message-ID: <6pine3F85uioU1@mid.individual.net>
References: <gg7qs402stp@news1.newsguy.com> <DPedndJHQ50Ho7PUnZ2dnUVZ_tzinZ2d@web-
ster.com> <2a6063fd-4cde-4a57-b2ae-49dc10b827f4@r40g2000yqj.googlegroups.com>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net +K0/h1FAXlOoqkPVVjhudQLJV4gpiNbC3hoMEGJg7qjWB1man3
Cancel-Lock: sha1:+rICPfi74o/0GMcNUcYIJCxulIM=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:1674

Tim Shoppa wrote:

> In 1930's QST's it's not too uncommon to see neophytes warned that
> crystals will often oscillate on something other than their marked
> frequency. They didn't call this overtone operation, though.

They /might/ be suggesting that frequency can change with loading. I find
that some of the reference crystals I use are quite some way off their marked
frequency when given capacitive loading that differs from that recommended by
the manufacturers!

> BC-604's (WWII era) start with a ridiculously low crystal (400ish kHz)

> frequency and multiply up but I think the reason for this is more to
> do with FM deviation than anything else. ("Armstrong method"?) For
> many decades, broadcast FM stations similarly started with low crystal
> frequencies and multiplied up.

Some of the broadcast transmitters I worked on 25 years ago used this method for FM, and were /really/ difficult to line up! They also included complex circuitry for the required "pre-distortion" of the audio to compensate for the non-linear deviation you got out of a crystal oscillators. Some manufacturers tried to overcome the distortion issue by using phase modulation and the "right" audio curves, but these required even more stages of multiplication!

One of my earliest jobs as a broadcast transmitter engineer was to develop a PLL to replace the horrible multiplier chains in some of these transmitters. I used (normally) either half or quarter frequency generation, and used the last one or two multiplier stages. The CMOS PLL circuitry could be prone to bizarre effects with high field strengths, so they were built in sealed diecast boxes, and the lower frequency generation meant that the high power output stages were unlikely to couple back into the oscillator!

Bob

From -3312569405010234493
X-Google-Thread: 108122,b95dec3d20a255fd
X-Google-Thread: fc2a5,b95dec3d20a255fd
X-Google-Thread: 107ada,b95dec3d20a255fd
X-Google-Thread: 110c99,b95dec3d20a255fd
X-Google-Thread: 111320,b95dec3d20a255fd
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews6.bellsouth.net.POSTED!7eee1d3b!not-for-mail
From: "Ed Cregger" <ecregger@bellsouff.net>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
References: <b8ce10db-378c-4ac2-81a5-f4fb023239ac@f3g2000yqf.googlegroups.com>
Subject: Re: Females love to show off in front of their webcams
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <zVYYk.2602$UI2.2449@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:

```
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcboekblmaojffmmnckihpgjkleeaomodjdaif
eckepfagppmljicfanacojdoofoiooncmdhcleiijhgcdmkliedflhfbeiklbegghbjjfoaiemglci
NNTP-Posting-Date: Mon, 01 Dec 2008 16:45:03 EST
Organization: BellSouth Internet Group
Date: Mon, 1 Dec 2008 16:47:04 -0500
Xref: g2news1.google.com rec.radio.amateur.equipment:906
rec.radio.amateur.homebrew:1378 rec.radio.amateur.misc:1606 rec.running:5479
rec.scouting.issues:949
```

If they're not talking on ham radio, we're not interested.

Ed, N2ECW

<elvinabr@gmail.com> wrote in message
news:b8ce10db-378c-4ac2-81a5-f4fb023239ac@f3g2000yqf.googlegroups.com...

> Females love webcams http://westsex.withsex.com

```
From 1246219126676192757
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews2.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: weller EC2002C soldering station
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
     <490BECC9.3070005@NETTALLY.COM> <Xns9B499C88C85BC2MDWN@194.177.96.78>
<9ea9aaa3-b83c-465e-b370-d13686810d01@a17g2000prm.googlegroups.com>
In-Reply-To: <9ea9aaa3-b83c-465e-b370-d13686810d01@a17g2000prm.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 17
Message-ID: <EPJTk.66346$Ep1.55496@bignews2.bellsouth.net>
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X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcboccabfhmpkeegiopinaejpmbmdhpolmlhec
kpcepijbifckoefjpjcigpcgdiikbcdgccdebdgpgdfpfbcpaobapgfijkopgenjgdkcepeeifcdbb
NNTP-Posting-Date: Sat, 15 Nov 2008 19:29:24 EST
Organization: BellSouth Internet Group
Date: Sat, 15 Nov 2008 19:35:39 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:3627
```

Tim Shoppa wrote:

> On Nov 1, 4:23 pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
>> We had one of these irons at work and replaced it with a WTCP
>> station.
>
> I cannot say how much I love the WTCP's for being a rugged reliable
> workhorse.
>
> Tim N3QE

I went through two WTCP's. They worked ok, but eventually got
intermittent and would not stay hot. I now have a WES51/PES51 setup.
No more changing tips to change temperature, just dial it in. No led
display, but the dial is calibrated close enough. Also the soldering
pencil is lighter and less bulky than the WTCP was. Still I did like
the WTCP's all in one construction over the two piece (power supply and
iron stand) of the 'ES51. The Coper group has destroyed Weller. I
collect old Weller guns whenever I find them, the new ones SUCK.

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From 7675530911008292332
X-Google-Thread: fc2a5,2a05b9acf3aa71
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!u18g2000pro.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew breadboard xmtr
Date: Sat, 15 Nov 2008 17:19:00 -0800 (PST)
Organization: http://groups.google.com
Lines: 71
Message-ID: <12bf1192-4c25-4628-86f0-0ff72d87767b@u18g2000pro.googlegroups.com>
References: <gfdmdq01f4h@news6.newsguy.com> <wsCdnXAGXr3jg4LUnZ2dnUVZ_oLinZ2d@web-
ster.com>
NNTP-Posting-Host: 155.178.6.10
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1226798341 24257 127.0.0.1 (16 Nov 2008 01:19:01 GMT)
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NNTP-Posting-Date: Sun, 16 Nov 2008 01:19:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u18g2000pro.googlegroups.com; posting-host=155.178.6.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3628
```

On Nov 15, 2:10=A0pm, Tim Wescott <t...@seemywebsite.com> wrote:
> exray wrote:
> > Hi,
> > I've gotten far enough along with this project to where I'm ready to
> > toss it out for public scrutiny, so have at me, guys.

>
> > I'm a receiver guy - never built a tube transmitter from scratch and
> > this is my first go. =A0My goals were, in no particular order, to build
> > something with a early 30s breadboard look, xtal control, 40/20 meters
> > primarily - 80/30 as bonus, moderate power for getting on the air
> > barefoot while not overpowering a future amp idea...and of course using
> > accessible parts.
>
> > This is sort of my compilation of ideas from old QST articles. =A0Robbe=
d
> > ideas from this and that to make them fit. =A0I made some major boo-boo=
s
> > at first but I think I finally have them sorted out. =A0Something that
> > dawned on me a little bit slowly is that none of those old xmtrs were
> > set up to operate 40 meters with a 7 Mc xtal. =A0Much of the emphasis w=
as
> > on double this/double that. =A0Nowadays we have 7 and 14 Mc fundamental
> > xtals abounding so I went the route of reinventing the wheel so to spea=
k.
>
> > The rig is working at this stage...at least straight thru on 40. Waitin=
g
> > for some other bits and bobs to carry on to other bands. =A0The note
> > sounds good and its nothing I'm reluctant to put on the air. =A0On the
> > other hand its a massive amount of wood and metal for a measly 5 or 6
> > watts :) =A0A little slatboard 6V6 chirper would have been much easier.
>
> > Anyway, I'm not a veteran with old xmtrs so I'm putting it out for
> > comments, questions, critiques, etc. =A0Flame suit is handy!
>
> > Schematic:
> >http://i132.photobucket.com/albums/q18/billynaty/1stXmtr/schema111108...
>
> > View:
> >http://i132.photobucket.com/albums/q18/billynaty/1stXmtr/Dscf1436.jpg
>
> > -Bill WX4A/KP4
>
> Nothing that pretty can possibly work.
>
> :-)
>
> --
>
> Tim Wescott
> Wescott Design Serviceshttp://www.wescottdesign.com
>
> Do you need to implement control loops in software?
> "Applied Control Theory for Embedded Systems" gives you just what it says=
.
> See details athttp://www.wescottdesign.com/actfes/actfes.html- Hide quote=
d text -
>

> - Show quoted text -

Looks like something I found in my grandfather's car house. His was a
wood frame with copper sheeting. He said he built it a few years
before WWII. We cleaned it up and he fired it up and he lit up a
little light bulb so I'm figuring 3 or 4 watts. After that I polished
up the copper and really cleaned it up and fired it up one more time.
He ran a depot for the railroad and was always going to get his ham
ticket but never did though he knew morse code extremely well and
built several transmitters and receivers.

Jimmie

From 3931450516598585783
X-Google-Thread: fc2a5,c642c69e8cf197c5
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bignumber.bellsouth.net!news.bellsouth.net!bignews8.bellsouth.net.POSTED!2eb35c21!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: mechanical coil switching of two coils`
References: <36e541e1-2127-4496-85b9-910b9f44f594@f37g2000pri.googlegroups.com>
<3c3a2e54-2f2b-471d-89f5-70f45cce162a@q30g2000prq.googlegroups.com>
In-Reply-To: <3c3a2e54-2f2b-471d-89f5-70f45cce162a@q30g2000prq.googlegroups.com>
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X-Abuse-Info: Please forward a copy of all headers for proper handling
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NNTP-Posting-Date: Sat, 15 Nov 2008 20:56:02 EST
Organization: BellSouth Internet Group
Date: Sat, 15 Nov 2008 20:58:39 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1178

Tim Shoppa wrote:
> On Nov 13, 12:26 pm, Ross Tucker <rjtu...@gmail.com> wrote:
>> I am almost ready to begin fabrication of a new transmitter that I
>> have been working on for a long time now. However, one detail is still
>> eluding me- I would like to use a single rotary switch to select taps
>> on two different coils. In-line ganged switching would be inconvenient
>> for my layout. Is it possible to homebrew a mechanical linkage to turn
>> two switches? I have a front panel and metal deck (vacuum tube

```
>> construction style), so I could mount gears and cams and stuff, and my
>> layout does have a good clear space between the coils, so there is
>> room. My problem is that I have never read anything about doing this
>> and don't know where to begin looking for parts, etc. Again, I have
>> two coils with four taps each for 40, 20, 15, 10m.
>>
>> Thank you very much for any thoughts on this matter.
>
> Look at the parts assortments that Robotics Hobbyists buy, from e.g.
> Jameco and other places. http://www.jameco.com/ search for "robotics".
>
> Berg and Small Parts Inc sell gears and sprockets and roller chain in
> small quantities but they are not cheap. Jameco is cheap.
>
> Sprockets and roller chain or belts are surprisingly effective if not
> all your shafts are in-line.
>
> For low-level switching, using relays controlled by DC voltage busses
> is great. Surplus small relays are available in vast quantities at
> very cheap prices. For non-mechanical switching, diodes can be biased
> on and off by DC voltages to act as switches. But once you get to
> higher level switching (e.g. transmitter tanks) the cheap relays may
> not take the currents or voltages involved. Still, there was an
> article in QST a few months ago that used small relays to change the
> electrical length of a wire antenna, I was a little surprised at how
> do-able it looked.
>
> Tim N3QE
Another good source for gears and sprockets is www.smallparts.com  They
have lots of couplers, tubing, tools, etc as well.  Great source for
robot prototyping too.


From -1248654484787468390
X-Google-Thread: fc2a5,c642c69e8cf197c5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!k24g2000pri.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: mechanical coil switching of two coils`
Date: Sat, 15 Nov 2008 19:02:29 -0800 (PST)
Organization: http://groups.google.com
Lines: 34
Message-ID: <0bcd0e38-fd8e-40ce-8610-72258027aa95@k24g2000pri.googlegroups.com>
References: <36e541e1-2127-4496-85b9-910b9f44f594@f37g2000pri.googlegroups.com>
NNTP-Posting-Host: 76.232.149.28
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1226804549 10166 127.0.0.1 (16 Nov 2008 03:02:29 GMT)
X-Complaints-To: groups-abuse@google.com
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NNTP-Posting-Date: Sun, 16 Nov 2008 03:02:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1179

On Nov 13, 12:26=A0pm, Ross Tucker <rjtu...@gmail.com> wrote:
> I am almost ready to begin fabrication of a new transmitter that I
> have been working on for a long time now. However, one detail is still

Hey Ross:

I would think outside the box, forget a mechanical arrangement, use
the In line ganged to control relay switching.

And if you really want to go mechanical for some strange reason I'd
use a flex shaft. Bend a flex shaft 180 degress and viola'.
I too have thought about this very topic, for my amp I might try pin
diodes since I'm a not using GG.

73 OM
n8zu

> eluding me- I would like to use a single rotary switch to select taps
> on two different coils. In-line ganged switching would be inconvenient
> for my layout. Is it possible to homebrew a mechanical linkage to turn
> two switches? I have a front panel and metal deck (vacuum tube
> construction style), so I could mount gears and cams and stuff, and my
> layout does have a good clear space between the coils, so there is
> room. My problem is that I have never read anything about doing this
> and don't know where to begin looking for parts, etc. Again, I have
> two coils with four taps each for 40, 20, 15, 10m.
>
> Thank you very much for any thoughts on this matter.
>
> 73,
> Ross, NS7F

From -7116843989643569746
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
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Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: weller EC2002C soldering station
Date: Sun, 16 Nov 2008 04:19:02 +0100 (CET)
Organization: Mostly In Piles
Lines: 54
Message-ID: <Xns9B57D8DD99DA12MDWN@194.177.96.78>
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
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<EPJTk.66346$Ep1.55496@bignews2.bellsouth.net>
NNTP-Posting-Host: IKNo1p/1EhfkrlMZB9f6hQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Sun, 16 Nov 2008 03:19:02 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3631

Howdy,

I've managed several labs where we had dozens of WTCP stations in daily use.

The only problem I found with WTCP is the connector between the base and the cord. I usually remove the connector and hardwire the cord at the base. It causes the intermittent operation that you've decribed.

I couldn't agree with you more concerning the damage Cooper did to the Weller brand. Since they moved production to Mexico the quality control is nonexistant. Some of the design changes which I believe were intended as cost reductions were ill advised too. The old Weller soldering guns are indestructable.

At home I have a Pace soldering/desoldering station and a Metcal SMT station. I've no complaints other than the price.

At work we have a Hakko soldering/deslodering station and it's a real work horse. We also have a Metcal SMT station which is a bit fussy but it has been though hell and back. We just bought a couple Pace ST70 soldering stations for general purpose work. I think we will buy a few more, they're great.

It's too bad that Wahl quit selling Sterling soldering irons in the US. It's an odd little iron but I love it. Thirty years old and it's still the first iron I reach for in my shop. The original tip is perfect! I called Wahl about buying a second iron and no one there knew what I was talking about. The most clever feature is an aluminum washer between the tip and body of the iron. The difference in coefficient of expansion keeps the tip from seizing. It says made in England on the body. Google was no help... sigh.

73,

Grumpy

ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in
news:EPJTk.66346$Ep1.55496@bignews2.bellsouth.net:

>> Tim N3QE
> I went through two WTCP's. They worked ok, but eventually got
> intermittent and would not stay hot. I now have a WES51/PES51 setup.
> No more changing tips to change temperature, just dial it in. No led
> display, but the dial is calibrated close enough. Also the soldering
> pencil is lighter and less bulky than the WTCP was. Still I did like
> the WTCP's all in one construction over the two piece (power supply and
> iron stand) of the 'ES51. The Coper group has destroyed Weller. I
> collect old Weller guns whenever I find them, the new ones SUCK.
>

From -8980039618854253976
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nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 15 Nov 2008 22:22:08 -0600
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
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<EPJTk.66346$Ep1.55496@bignews2.bellsouth.net>
<Xns9B57D8DD99DA12MDWN@194.177.96.78>
Subject: Re: weller EC2002C soldering station
Date: Sat, 15 Nov 2008 23:23:51 -0500
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X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <YbydndoLzKBtAoLUnZ2dnUVZ_sWdnZ2d@earthlink.com>
Lines: 22
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39

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Xref: g2news1.google.com rec.radio.amateur.homebrew:1181
```

"Grumpy The Mule" <s_foonly@foo.bar> wrote in message
news:Xns9B57D8DD99DA12MDWN@194.177.96.78...

```
>
>> I couldn't agree with you more concerning the damage Cooper
> did to the Weller brand.  Since they moved production to Mexico
> the quality control is nonexistant.  Some of the design changes
> which I believe were intended as cost reductions were ill advised
> too.  The old Weller soldering guns are indestructable.
>
```

I have the Weller guns in 3 differant wattage ranges. I think this is one of each that they made. The 8200 I have is over 40 years old. The middle wattage gun is one that does not have the hollow nuts that screw into the end of the rods comming out of the gun. It is labled intermittent duty where the other 2 do not have this lable. It seems to be lighter than the smaller rated gun also. I don't use them much any more except to put the connectors on the PL-259.

I really like the guns for the bigger stuff the pencles will not work. I even used the 8200 on some of the older and larger PC boards.

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From 7515599102104535782
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X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
q26g2000prq.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: mechanical coil switching of two coils`
Date: Sat, 15 Nov 2008 22:00:24 -0800 (PST)
Organization: http://groups.google.com
Lines: 12
Message-ID: <f4c01f1a-c2af-47a6-947b-f668e9ee2f2d@q26g2000prq.googlegroups.com>
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Content-Transfer-Encoding: quoted-printable
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NNTP-Posting-Date: Sun, 16 Nov 2008 06:00:24 +0000 (UTC)
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Injection-Info: q26g2000prq.googlegroups.com; posting-host=76.232.149.28;
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     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1182

On Nov 15, 10:02=A0pm, raypsi <RBorow...@gmail.com> wrote:
> On Nov 13, 12:26=A0pm, Ross Tucker <rjtu...@gmail.com> wrote:> I am almos=
t ready to begin fabrication of a new transmitter that I
> > have been working on for a long time now. However, one detail is still
>
Hey Ross:

Then again you could get a roller inductor and forget the glorified
bandswitch arrangement.

73 OM
n8zu

From -4378907142453290240
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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NNTP-Posting-Date: Sun, 16 Nov 2008 01:55:12 -0600
Message-ID: <P+e96NG2F9HJFAkD@ifwtech.co.uk>
Date: Sun, 16 Nov 2008 07:53:26 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: weller EC2002C soldering station
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
 <490BECC9.3070005@NETTALLY.COM> <Xns9B499C88C85BC2MDWN@194.177.96.78>
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 <EPJTk.66346$Ep1.55496@bignews2.bellsouth.net>
 <Xns9B57D8DD99DA12MDWN@194.177.96.78>
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3634

Grumpy The Mule wrote:

>
>I've managed several labs where we had dozens of WTCP stations in daily
>use.
>
>The only problem I found with WTCP is the connector between the base
>and the cord. I usually remove the connector and hardwire the cord at
>the base. It causes the intermittent operation that you've decribed.
>
>I couldn't agree with you more concerning the damage Cooper did to the
>Weller brand. Since they moved production to Mexico the quality
>control is nonexistant. Some of the design changes which I believe
>were intended as cost reductions were ill advised too. The old Weller
>soldering guns are indestructable.
>

I wouldn't be without my TCP, and spares are still available. Cooper
Tools in the UK give excellent customer support (though that's the
people, not the product).

>At home I have a Pace soldering/desoldering station and a Metcal SMT
>station. I've no complaints other than the price.
>
>At work we have a Hakko soldering/deslodering station and it's a real
>work horse. We also have a Metcal SMT station which is a bit fussy but
>it has been though hell and back. We just bought a couple Pace ST70
>soldering stations for general purpose work. I think we will buy a few
>more, they're great.
>

Also take a look at the JBC range of soldering stations. They are beyond
my amateur budget but professional friends rave about them - they seem
to do everything the Metcal range can (and more) without the complex and
expensive RF heating. There's a video presentation at:
http://uk.youtube.com/watch?v=v2hLFmHTQvo

>It's too bad that Wahl quit selling Sterling soldering irons in the US.
>It's an odd little iron but I love it. Thirty years old and it's still
>the first iron I reach for in my shop. The original tip is perfect! I
>called Wahl about buying a second iron and no one there knew what I was
>talking about. The most clever feature is an aluminum washer between
>the tip and body of the iron. The difference in coefficient of
>expansion keeps the tip from seizing. It says made in England on the
>body. Google was no help... sigh.
>

If you can post a photograph on a website, someone here in the UK may be
able to identify it.

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

```
From -7819466949784317701
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v39g2000pro.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Battery charger
Date: Sun, 16 Nov 2008 13:21:58 -0800 (PST)
Organization: http://groups.google.com
Lines: 8
Message-ID: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com>
NNTP-Posting-Host: 155.178.4.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1226870518 8628 127.0.0.1 (16 Nov 2008 21:21:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 16 Nov 2008 21:21:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v39g2000pro.googlegroups.com; posting-host=155.178.4.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3635
```

I want to add a couple of deep discharge type batteries to my truck
for camping but how do I intermix them with the normal auto battery
and charging system. I was thinking about getting a charger meant for
charging batteries from solar panels and connecting the solar panel
input to the generator. A 20A charger cost about $50USD .This would be
very reasonable if I knew it would work as expected.

Jimmie

```
From 3523320276979596468
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.brightview.com!news.brightview.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 16 Nov 2008 15:42:43 -0600
From: HighlandObserver@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
Date: Sun, 16 Nov 2008 21:42:43 +0000
Sender: HighlandObserver@gmail.com
Reply-To: HighlandObserver@gmail.com
Message-ID: <bt41i4tcebp44tl0694j629jbn1be81cnq@4ax.com>
```

```
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com>
X-Newsreader: Forte Agent 5.00/32.1160
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 081116-0, 16/11/2008), Outbound message
X-Antivirus-Status: Clean
Lines: 3
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 80.189.250.231
X-Trace: sv3-LENHP5KncYNimEjUDhunuIzQZ5rY/
mmKUKReW+Pv7D0wWfatIbftmTpmqSyWs8npO1pZOAwEDITQYfZ!
MthAP6IqVhDDz0jvllYjUDrBwtHVqiQxFGdfCCvxKyqlEEzaSZrDohnIgn9d5QWaeKwwMrNh9a77!
5T92R2ModKStE8JixpEL/MjNm44g/tulq00TRuMpRzxa
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3636
```

Why not use a traditional split charge relay.
Alternator output then becomes the limiting factor

```
From 3398284529982509689
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
news.mixmin.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: weller EC2002C soldering station
Date: Mon, 17 Nov 2008 00:08:46 +0100 (CET)
Organization: Mostly In Piles
Lines: 26
Message-ID: <Xns9B58AE6F762962MDWN@194.177.96.78>
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
<490BECC9.3070005@NETTALLY.COM> <Xns9B499C88C85BC2MDWN@194.177.96.78> <9ea9aaa3-
b83c-465e-b370-d13686810d01@a17g2000prm.googlegroups.com>
<EPJTk.66346$Ep1.55496@bignews2.bellsouth.net>
<Xns9B57D8DD99DA12MDWN@194.177.96.78> <P+e96NG2F9HJFAkD@ifwtech.co.uk>
NNTP-Posting-Host: biF3wlqwFDjKtofG6Q7SGg.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Sun, 16 Nov 2008 23:08:46 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1186
```

Howdy,

Thank you for the suggestion. I have posted an image of the iron at www.dwave.net/~twomules/sterling_iron.jpg

The manufacturer's name is Sterling and it's marked made in
England. The handle is tri-lobular in cross section. In the
handle there is a thermostat which is adjusted by means ofan
allen key and there is a neon bulb indicating the heater status.

I'd like to know if it's still being manufactured.

73,
Grumpy

Ian White GM3SEK <gm3sek@ifwtech.co.uk> wrote in
news:P+e96NG2F9HJFAkD@ifwtech.co.uk:

SNIP
> If you can post a photograph on a website, someone here in the UK may be
> able to identify it.
>
>

From 2060050214915066015
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.k-dsl.de!aioe.org!
not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
Date: Mon, 17 Nov 2008 00:29:19 +0100 (CET)
Organization: Mostly In Piles
Lines: 38
Message-ID: <Xns9B58B1EAA956F2MDWN@194.177.96.78>
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com>
NNTP-Posting-Host: biF3wlqwFDjKtofG6Q7SGg.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Sun, 16 Nov 2008 23:29:19 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3638

Hello Jimmie,

I've used a relay to disconnect the auxilliary battery when either
the ignition is off or the auxilliary battery voltage is low ~11.5V.

There is a series diode and resistor in parallel with the relay contacts to bring the auxilliary battery back up slowly when the engine is running so the undervoltage lockout can reclose the relay and not dump the discharged battery on the alternator.

The automotive "ice cube" relays are good for this I've seen some rated as high as 80A.

Another refinement I did not try is a switch to override the undervoltage lockout so I could jump the vehicle off the auxillary battery. Perhaps the switch should be across the diode so the auxillary battery slowly charges the main battery?

73,
Grumpy

JIMMIE <jimmie68@gmail.com> wrote in news:b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com:

> I want to add a couple of deep discharge type batteries to my truck
> for camping but how do I intermix them with the normal auto battery
> and charging system. I was thinking about getting a charger meant for
> charging batteries from solar panels and connecting the solar panel
> input to the generator. A 20A charger cost about $50USD .This would be
> very reasonable if I knew it would work as expected.
>
> Jimmie
>

From 1998618204555736196
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!news2.arglkargh.de!news.mixmin.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
Date: Mon, 17 Nov 2008 00:30:55 +0100 (CET)
Organization: Mostly In Piles
Lines: 10
Message-ID: <Xns9B58B230598522MDWN@194.177.96.78>
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com> <Xns9B58B1EAA956F2MDWN@194.177.96.78>
NNTP-Posting-Host: biF3wlqwFDjKtofG6Q7SGg.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Sun, 16 Nov 2008 23:30:55 +0000 (UTC)
User-Agent: Xnews/5.04.25

X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3639

Grumpy The Mule <s_foonly@foo.bar> wrote in
news:Xns9B58B1EAA956F2MDWN@194.177.96.78:

A correction...

> Another refinement I did not try is a switch to override the _ignition_
> lockout so I could jump the vehicle off the auxillary battery. Perhaps
> the switch should be across the diode so the auxillary battery slowly
> charges the main battery?

From -2550578655408770908
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.eclipse.net.uk!news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 17 Nov 2008 02:35:10 -0600
Message-ID: <4inwt7LtvSIJFAqN@ifwtech.co.uk>
Date: Mon, 17 Nov 2008 08:31:41 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: weller EC2002C soldering station
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
 <490BECC9.3070005@NETTALLY.COM> <Xns9B499C88C85BC2MDWN@194.177.96.78>
 <9ea9aaa3-b83c-465e-b370-d13686810d01@a17g2000prm.googlegroups.com>
 <EPJTk.66346$Ep1.55496@bignews2.bellsouth.net>
 <Xns9B57D8DD99DA12MDWN@194.177.96.78> <P+e96NG2F9HJFAkD@ifwtech.co.uk>
 <Xns9B58AE6F762962MDWN@194.177.96.78>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<5mwkzTBRO5sETFKkGhyHHc+YXH>)
Lines: 27
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 91.84.209.172
X-Trace: sv3-uQyw/mUTOV4HSgPdiIs6JB/
ezX9fkIqXiV2x33mcuHya3OnXQN0GkblFEy5KeIdeIr0cjzJ59lIXGN7!
pp1BouQeimrtCS0VZ4yTb5hsYpILU30vCzM8s35jL29oTVwDBDNry4j/5mF/AWFnbI5Etzq+DA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3640

Grumpy The Mule wrote:
>Howdy,

```
>
>Thank you for the suggestion.  I have posted an image of the
>iron at  www.dwave.net/~twomules/sterling_iron.jpg
>
>The manufacturer's name is Sterling and it's marked made in
>England.  The handle is tri-lobular in cross section.  In the
>handle there is a thermostat which is adjusted by means ofan
>allen key and there is a neon bulb indicating the heater status.
>
>I'd like to know if it's still being manufactured.
>
```

I used to have one of those, but it didn't last as well as yours did so it's long gone... along with all memory of the name!

Cross-posted to the good people at uk.d-i-y, some of whom have a bottomless memory about old tools.

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

```
From 1947121159794369351
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!1g2000prd.googlegroups.com!not-for-
mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor
Date: Mon, 17 Nov 2008 02:37:01 -0800 (PST)
Organization: http://groups.google.com
Lines: 12
Message-ID: <5b2dba02-9143-4e84-bc46-934e0716e6a2@1g2000prd.googlegroups.com>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
     <gfk5ca$osk$1@news.albasani.net> <62e2cb0e-90c6-42ee-
a80b-9ace32b89730@u29g2000pro.googlegroups.com>
     <gfnk50$ner$1@news.albasani.net>
NNTP-Posting-Host: 75.34.27.147
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1226918221 19441 127.0.0.1 (17 Nov 2008 10:37:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 17 Nov 2008 10:37:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 1g2000prd.googlegroups.com; posting-host=75.34.27.147;
```

```
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
     .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506;
     InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1190

> Most people would build one rather than buy one and many would even
> design one based on RF processing as this would be far better for
> amateur use.
>
> You would be far better off targeting gullible CB users.
> Steve H

SteveH, sorry you have such a low opinion of CB operators... I don't
believe they think much of you either... lol
www.telstar-electronics.com




From 5828827012927826380
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.eclipse.net.uk!news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 17 Nov 2008 06:20:15 -0600
Message-ID: <JCw8VCazAWIJFAOj@ifwtech.co.uk>
Date: Mon, 17 Nov 2008 12:14:43 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: weller EC2002C soldering station
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
 <490BECC9.3070005@NETTALLY.COM> <Xns9B499C88C85BC2MDWN@194.177.96.78>
 <9ea9aaa3-b83c-465e-b370-d13686810d01@a17g2000prm.googlegroups.com>
 <EPJTk.66346$Ep1.55496@bignews2.bellsouth.net>
 <Xns9B57D8DD99DA12MDWN@194.177.96.78> <P+e96NG2F9HJFAkD@ifwtech.co.uk>
 <Xns9B58AE6F762962MDWN@194.177.96.78> <4inwt7LtvSIJFAqN@ifwtech.co.uk>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=iso-8859-1;format=flowed
Content-Transfer-Encoding: 8bit
User-Agent: Turnpike/6.05-M (<5m2kzTRxO5sFRFKkehyHHc+AP0>)
Lines: 51
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 91.84.209.172
X-Trace: sv3-dHgPx+oR5jyRA9dwMjMYmN/YBvMOSPaMMI/
q91jeI83834FY5Jvsl0jvYEvW2qUaSIsxeCdM1CleHoP!
UTLJe9DULpztmi1xDKy1fVc+OHbvBe2g6dZfaUl0KV9NtUMV+24HfJaT6deDOdZcO9KWpa/iWQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
```

X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3642

Ian White GM3SEK wrote:
>Grumpy The Mule wrote:
>>Howdy,
>>
>>Thank you for the suggestion. I have posted an image of the
>>iron at www.dwave.net/~twomules/sterling_iron.jpg
>>
>>The manufacturer's name is Sterling and it's marked made in
>>England. The handle is tri-lobular in cross section. In the
>>handle there is a thermostat which is adjusted by means ofan
>>allen key and there is a neon bulb indicating the heater status.
>>
>>I'd like to know if it's still being manufactured.
>>
>
>I used to have one of those, but it didn't last as well as yours did so
>it's long gone... along with all memory of the name!
>
>Cross-posted to the good people at uk.d-i-y, some of whom have a
>bottomless memory about old tools.

Oh boy, do they ever! Thirteen replies already, all heavily laden with
soldering iron nostalgia... this thread will run and run.

One of them was even the right answer. From Jeff Layman:
>
>It's an Oryx 50.

Yes, that's the one I used to have.

>The name should be on the opposite side to that shown in the photo. Has
>interchangeable tips, is thermostically controlled, and the temperature
>is ajustable (up to 400�C), by mans of a hex key (1/16"?) set in a
>small plastic handle. I've had mine over 40 years, and it's still
>going strong.
>
>Mine doesn't have "Made in England" - just "Model 50; 220-240v. 50w". I
>guess the MiE was for the US market, as the iron was made in 24, 50,
>115, and 210/250v versions.
>

A bit of further Googling reveals that the Oryx tradename is still in
use, apparently owned by an Irish company named Portasol which now
specialises in gas-fueled irons (www.portasol.com).

--

73 from Ian GM3SEK 'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From 1245343791133123420
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: John Robert McFerren <robbie.mcferren@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
Date: Mon, 17 Nov 2008 08:55:20 -0500
Organization: Aioe.org NNTP Server
Lines: 9
Message-ID: <gfrt4m$one$1@aioe.org>
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com> <bt41i4tcebp44tl0694j629jbn1be81cnq@4ax.com>
NNTP-Posting-Host: QqSAez56kSVKdXq68G+BHg.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Mon, 17 Nov 2008 13:55:34 +0000 (UTC)
X-Notice: Filtered by postfilter v. 0.7.4
User-Agent: KNode/0.10.9
Xref: g2news1.google.com rec.radio.amateur.homebrew:1192

HighlandObserver@gmail.com wrote:

> Why not use a traditional split charge relay.
> Alternator output then becomes the limiting factor

I'm not familiar with the term split charge relay, but if it is what is referred to as a "Battery Isolator" then I actually like the idea. A good isolator will charge the starting battery first then it will take leftover power to charge the other battery. Combine this with solar power and you have a winning combination in my book.

From 5444217974336931701
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!e1g2000pra.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
Date: Mon, 17 Nov 2008 09:06:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 12

Message-ID: <8795bf5a-715c-4a24-8290-ab69d748782a@e1g2000pra.googlegroups.com>
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com>
<bt41i4tcebp44tl0694j629jbn1be81cnq@4ax.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1226941589 4489 127.0.0.1 (17 Nov 2008 17:06:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 17 Nov 2008 17:06:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e1g2000pra.googlegroups.com; posting-host=75.190.189.120;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1193

On Nov 16, 4:42=A0pm, HighlandObser...@gmail.com wrote:
> Why not use a traditional split charge relay.
> Alternator =A0output then becomes the limiting factor

I didnt think you could charge a deep cycle battery in an automotive system without damaging the battery. Its my understanding that car batteries are designed for a quick charge at realativly high current while deep cycle batteries require a long low current charge. To make it work thought you had to have a special charge regulator for the deep cycle battery.

Jimmie

From -7919060878639562375
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
news.mixmin.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: weller EC2002C soldering station
Date: Mon, 17 Nov 2008 19:11:43 +0100 (CET)
Organization: Mostly In Piles
Lines: 24
Message-ID: <Xns9B597C127AF762MDWN@194.177.96.78>
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
<490BECC9.3070005@NETTALLY.COM> <Xns9B499C88C85BC2MDWN@194.177.96.78> <9ea9aaa3-
b83c-465e-b370-d13686810d01@a17g2000prm.googlegroups.com>
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X-Complaints-To: abuse@aioe.org
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User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3645
```

Howdy,

Thanks Ian! Sounds like I'm out of luck on buying
a new Oryx 50. The writing on the handle is nearly
worn off. Now I can see why the people at Wahl didn't
know what I was talking about. I had it all wrong.

DOH! I Should have looked carefully at the stand!
It plainly reads ORYX and below that Reading England.
The name is moulded into the black plastic base but
not painted or ink stamped. I just never noticed it
before.

Wahl is still selling their battery powered soldering
iron. I used to own one of those until the nicad's
went bad. They're in Sterling Ill.

73,
Grumpy

```
From -5747902333907559285
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
news.mixmin.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
Date: Mon, 17 Nov 2008 19:58:18 +0100 (CET)
Organization: Mostly In Piles
Lines: 40
Message-ID: <Xns9B5983F85FB342MDWN@194.177.96.78>
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com>
<bt41i4tcebp44tl0694j629jbn1be81cnq@4ax.com> <8795bf5a-715c-4a24-8290-
ab69d748782a@e1g2000pra.googlegroups.com>
NNTP-Posting-Host: RZz3t56hNp5IKhwGryduEQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Mon, 17 Nov 2008 18:58:18 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:1195

Howdy,

What type of deep discharge battery do you mean?
Gell vs AGM vs VRLA vs Flooded battery generally
require different care.

I use low maintenance flooded deep disharge batteries
and charge them at 20% of their AHr capacity rating.
I'd have no worries about mounting one of these remotely
from the alternator (like in the trunk) and letting the
vehicle system charge it.

Gell or AGM I'd charge at 10% capacity or less. These
would require some current limiting circuit.

The volts per cell for full charge and float charge will be
different too. Though if you keep the battery between 80%
and 20% of full charge it's not an issue.

73,
Grumpy

JIMMIE <jimmie68@gmail.com> wrote in news:8795bf5a-715c-4a24-8290-ab69d748782a@e1g2000pra.googlegroups.com:

> On Nov 16, 4:42�pm, HighlandObser...@gmail.com wrote:
>> Why not use a traditional split charge relay.
>> Alternator �output then becomes the limiting factor
>
> I didnt think you could charge a deep cycle battery in an
> automotive system without damaging the battery. Its my understanding
> that car batteries are designed for a quick charge at realativly high
> current while deep cycle batteries require a long low current charge.
> To make it work thought you had to have a special charge regulator for
> the deep cycle battery.
>
> Jimmie

From 7906116656387176274
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>

```
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com>
Subject: Re: Battery charger
Lines: 27
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X-Priority: 3
X-MSMail-Priority: Normal
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <esjUk.1137$4g5.953@nwrddc01.gnilink.net>
Date: Mon, 17 Nov 2008 19:18:34 GMT
NNTP-Posting-Host: 71.118.3.126
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1226949514 71.118.3.126 (Mon, 17 Nov 2008 14:18:34
EST)
NNTP-Posting-Date: Mon, 17 Nov 2008 14:18:34 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:3647
```

"JIMMIE" <jimmie68@gmail.com> wrote in message
news:b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com...

> I want to add a couple of deep discharge type batteries to my truck
> for camping but how do I intermix them with the normal auto battery
> and charging system. I was thinking about getting a charger meant for
> charging batteries from solar panels and connecting the solar panel
> input to the generator. A 20A charger cost about $50USD .This would be
> very reasonable if I knew it would work as expected.
>
> Jimmie

If the RV isn't being used all the time the Battery chemistry is less of an issue. Deep cycles should be charged at roughly no more than 10 amps. and floated at 13.2 v. But if it is being cycled, the float value is less of an issue. You will need the long trip to insure it is up for the next stop.

If you are mounting the second battery under the hood, close to the charger, then it is best to use NR 10 or 12 wire for the charge line to limit the current and be able to disable the RV relay rather than leave it charging every day on long commutes. You will need to check the water more often.

I didn't see my earlier post, again DON'T use a solar charge controller as most regulate by shorting down the solar panel. If the system voltage is normal, nothing happens. If it should go high for any reason then it would simply burn out things.

```
From 267081410190315457
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Message-ID: <dW15AzhmocIJFAtK@ifwtech.co.uk>
Date: Mon, 17 Nov 2008 19:46:46 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: weller EC2002C soldering station
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
 <490BECC9.3070005@NETTALLY.COM> <Xns9B499C88C85BC2MDWN@194.177.96.78>
 <9ea9aaa3-b83c-465e-b370-d13686810d01@a17g2000prm.googlegroups.com>
 <EPJTk.66346$Ep1.55496@bignews2.bellsouth.net>
 <Xns9B57D8DD99DA12MDWN@194.177.96.78> <P+e96NG2F9HJFAkD@ifwtech.co.uk>
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 <JCw8VCazAWIJFAOj@ifwtech.co.uk> <Xns9B597C127AF762MDWN@194.177.96.78>
Organization: IFWtech
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Lines: 34
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3648

Grumpy The Mule wrote:
>Howdy,
>
>
>Thanks Ian! Sounds like I'm out of luck on buying
>a new Oryx 50. The writing on the handle is nearly
>worn off. Now I can see why the people at Wahl didn't
>know what I was talking about. I had it all wrong.
>
>DOH! I Should have looked carefully at the stand!
>It plainly reads ORYX and below that Reading England.
>The name is moulded into the black plastic base but
>not painted or ink stamped. I just never noticed it
>before.
>
>Wahl is still selling their battery powered soldering
>iron. I used to own one of those until the nicad's
>went bad. They're in Sterling Ill.

>
Ah, too bad. Here's another picture of the genuine article:

>>Someone in the USA would like to identify this old British made
>>soldering iron:
>
>As others have said - Oryx
>Photo of mine (with stand - sponge missing) at:-
>http://www.diy.110mb.com/oryx.jpg
>

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From -4686251907322853748
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
<490BECC9.3070005@NETTALLY.COM> <Xns9B499C88C85BC2MDWN@194.177.96.78> <9ea9aaa3-b83c-465e-b370-d13686810d01@a17g2000prm.googlegroups.com>
<EPJTk.66346$Ep1.55496@bignews2.bellsouth.net>
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<dW15AzhmocIJFAtK@ifwtech.co.uk>
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Message-ID: <Y2lUk.1149$4g5.951@nwrddc01.gnilink.net>
Date: Mon, 17 Nov 2008 21:08:08 GMT
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X-Trace: nwrddc01.gnilink.net 1226956088 71.118.3.126 (Mon, 17 Nov 2008 16:08:08 EST)

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NNTP-Posting-Date: Mon, 17 Nov 2008 16:08:08 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:3649
X-Original-Bytes: 1777

> >Wahl is still selling their battery powered soldering
> >iron.  I used to own one of those until the nicad's
> >went bad.  They're in Sterling Ill.

I have had one since 79' and is on it's 5th set of batteries.  I replaced
the last set with 3ah NiMH and they never seem to go down now and has a
permanent place in my field case.




From 4896728778775977795
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!q26g2000prq.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
Date: Mon, 17 Nov 2008 14:19:59 -0800 (PST)
Organization: http://groups.google.com
Lines: 53
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     <Xns9B5983F85FB342MDWN@194.177.96.78>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1226960399 16390 127.0.0.1 (17 Nov 2008 22:19:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 17 Nov 2008 22:19:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q26g2000prq.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
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     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3650

On Nov 17, 1:58=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> Howdy,
>
> What type of deep discharge battery do you mean?
> Gell vs AGM vs VRLA vs Flooded battery generally
> require different care. =A0
>
```

> I use low maintenance flooded deep disharge batteries
> and charge them at 20% of their AHr capacity rating.
> I'd have no worries about mounting one of these remotely
> from the alternator (like in the trunk) and letting the
> vehicle system charge it.
>
> Gell or AGM I'd charge at 10% capacity or less. =A0These
> would require some current limiting circuit.
>
> The volts per cell for full charge and float charge will be
> different too. =A0Though if you keep the battery between 80%
> and 20% of full charge it's not an issue.
>
> 73,
> Grumpy
>
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> ab69d7487...@e1g2000pra.googlegroups.com:
>
>
>
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> > automotive system without damaging the battery. Its my understanding
> > that car batteries are designed for a quick charge at realativly high
> > current while deep cycle batteries require a long low current charge.
> > To make it work thought you had to have a special charge regulator for
> > the deep cycle battery.
>
> > Jimmie- Hide quoted text -
>
> - Show quoted text -

Im not sure but they are sealed 100Ahr batteries and the max recharge
rate is 10amps so definitly not FLOOD.
I have recharged them from my aux power connector in my truck bed but
this took a lot more care and effort than I wanted to give. Wife and
kid thought I was paying more attention to the batteries than them.. I
thought about feeding them from a constant current source. In this
case it would act more like a current limiter.

Jimmie

From -938184544558015059
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.germany.com!news.k-dsl.de!aioe.org!

not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
Date: Tue, 18 Nov 2008 00:52:43 +0100 (CET)
Organization: Mostly In Piles
Lines: 68
Message-ID: <Xns9B59B5E27331E2MDWN@194.177.96.78>
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com> <bt41i4tcebp44tl0694j629jbn1be81cnq@4ax.com> <8795bf5a-715c-4a24-8290-ab69d748782a@e1g2000pra.googlegroups.com> <Xns9B5983F85FB342MDWN@194.177.96.78> <0309608e-8c61-4bac-a667-a00320bc3e93@q26g2000prq.googlegroups.com>
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X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Mon, 17 Nov 2008 23:52:43 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1200

Howdy,

Ok, the minimum you'd need to charge these is a voltage and current regulated supply limited to less than 10A and 13.62 for AGM or 13.50 for gell (check the manufacturer's stated the float voltage). No more than 14.1V in any case.

The vehicle voltage is not much higer than this with the engine is running. It's possible to build a low drop linear regulator to serve this function. Linear Technology or Micrel should have an app note you can work from. This is the one device solution. You'll get a couple of hundred milliamps to an amp at 13.6V from as low as 14V maybe a bit less. Good for keeping the auxilliary battery topped off but not so good for recharging.

If you want faster recharge (which still won't be very fast since 120%-140% of 100Ahr is is going to take 12H-14Hr at 10A) I suggest a SMPS running off the vehicle battery it can charge the gell cell even when the engine isn't running.

Try National Semiconductor's Web Bench power design tool and roll your own with their parts.
http://www.national.com/appinfo/power/webench.html

For minimum recharge time a bigger SMPS (maybe a nice push-pull) is required. I might try a simple switcher boost converter or switched capacitor converter and raise the vehicle supplied voltage to about 24V at a few milliamps to bias a series pass MOSFET linear regulator. The output current and drop-out voltage are then only limited by the mosfet pass device(s) ... virtually unlimited! Though not as efficient as the switcher. Maybe a good idea to throttle back the current limit from 10A when the engine is running to a few hundred milliamps when it is not. Though even that's too much if the vehicle sits unused for too long.

Which causes me to ponder... you'll drain the vehicle battery unless the engine is running. Even at 10A charge current a full recharge requires a fair amout of driving! Perhaps it's better to plan on recharging the battery from "dock side" power and only trickle charge the battery from the vehicle to keep it topped off. One of the low drop regulator IC's set to 13.6V or a simple switcher(tm) would be all you need for that.

73,
Grumpy

JIMMIE <jimmie68@gmail.com> wrote in news:0309608e-8c61-4bac-a667-a00320bc3e93@q26g2000prq.googlegroups.com:

> Im not sure but they are sealed 100Ahr batteries and the max recharge
> rate is 10amps so definitly not FLOOD.
> I have recharged them from my aux power connector in my truck bed but
> this took a lot more care and effort than I wanted to give. Wife and
> kid thought I was paying more attention to the batteries than them.. I
> thought about feeding them from a constant current source. In this
> case it would act more like a current limiter.
>
> Jimmie
>

From 5044361252112443123
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!c36g2000prc.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
Date: Mon, 17 Nov 2008 16:28:07 -0800 (PST)
Organization: http://groups.google.com
Lines: 25
Message-ID: <355e6bae-ab52-4d0e-8fde-ffa06fec1d7d@c36g2000prc.googlegroups.com>
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com>
NNTP-Posting-Host: 76.232.149.28
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1226968087 12786 127.0.0.1 (18 Nov 2008 00:28:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 18 Nov 2008 00:28:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c36g2000prc.googlegroups.com; posting-host=76.232.149.28;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3652

On Nov 16, 4:21=A0pm, JIMMIE <jimmi...@gmail.com> wrote:
> I want to add a couple of deep discharge type batteries to my truck
> for camping but how do I intermix them with the normal auto battery
> and charging system. I was thinking about getting a charger meant for
> charging batteries from solar panels and connecting the solar panel
> input to the generator. A 20A charger cost about $50USD .This would be
> very reasonable if I knew it would work as expected.
>
> Jimmie

Hey jimmie:

TI makes a really sweet ic for charging batteries the UC3906. Is the greatest IC since sliced bread for charging batteries. It took forever to charge my deep cycle marine battery like a110AHr. A straight charger it would take a week to charge 100% it's that last 15% that's the toughest. The UC3906 charged my deep cycle marine battery to full charge from dead in 10 hours. It's one of the greatest homebrew jobs I've done. I used it to charge a 110AHr deep cycle marine battery for my electric bike. I could ride 2 days on a single charge like $0.25 worth of electricty back and forth to work. 45 miles on a single charge.

73 OM
n8zu

From -6656094137868958935
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
Date: Tue, 18 Nov 2008 01:41:36 +0100 (CET)
Organization: Mostly In Piles
Lines: 33
Message-ID: <Xns9B59BE2C59F02MDWN@194.177.96.78>
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com>

<355e6bae-ab52-4d0e-8fde-ffa06fec1d7d@c36g2000prc.googlegroups.com>
NNTP-Posting-Host: EFHXJRK/NqiLe0Ue30zikQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Tue, 18 Nov 2008 00:41:36 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3653

Agreed! I designed a DC UPS power supply for Harris using the UC3906 to charge a 4Ahr gell cell for wireless pbx. The only down side is it requires some head voltage for the regulator, so it won't work well off a 12V vehicle system unless the engine is running and then not so great.

I still have two of those Harris power supplies one runs an HT monitoring a repeater and the other runs a scanner and a small transmitter. The batteries are ten years old and show little loss of capacity.

raypsi <RBorowiak@gmail.com> wrote in news:355e6bae-ab52-4d0e-8fde-ffa06fec1d7d@c36g2000prc.googlegroups.com:

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> greatest IC since sliced bread for charging batteries. It took forever
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> worth of electricty back and forth to work. 45 miles on a single
> charge.
>
> 73 OM
> n8zu
>

From 9163563020523782859
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!w1g2000prk.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
Date: Mon, 17 Nov 2008 22:13:12 -0800 (PST)

```
Organization: http://groups.google.com
Lines: 49
Message-ID: <1fa6ec49-6eab-4cb6-8eeb-2ad47bd5e460@w1g2000prk.googlegroups.com>
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com>
     <355e6bae-ab52-4d0e-8fde-ffa06fec1d7d@c36g2000prc.googlegroups.com>
     <Xns9B59BE2C59F02MDWN@194.177.96.78>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1226988792 4039 127.0.0.1 (18 Nov 2008 06:13:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 18 Nov 2008 06:13:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w1g2000prk.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3654

On Nov 17, 7:41=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> Agreed! =A0I designed a DC UPS power supply for Harris using the
> UC3906 to charge a 4Ahr gell cell for wireless pbx. =A0The only
> down side is it requires some head voltage for the regulator,
> so it won't work well off a 12V vehicle system unless the engine
> is running and then not so great.
>
> I still have two of those Harris power supplies one runs an HT
> monitoring a repeater and the other runs a scanner and a small
> transmitter. =A0The batteries are ten years old and show little
> loss of capacity.
>
> raypsi <RBorow...@gmail.com> wrote in news:355e6bae-ab52-4d0e-8fde-
> ffa06fec1...@c36g2000prc.googlegroups.com:
>
>
>
> > TI makes a really sweet ic for charging batteries the UC3906. Is the
> > greatest IC since sliced bread for charging batteries. It took forever
> > to charge my deep cycle marine battery like a110AHr. A straight
> > charger it would take a week to charge 100% it's that last 15% that's
> > the toughest. The UC3906 charged my deep cycle marine battery to full
> > charge from dead in 10 hours. It's one of the greatest homebrew jobs
> > I've done. I used it to charge a 110AHr deep cycle marine battery for
> > my electric bike. I could ride 2 days on a single charge like $0.25
> > worth of electricty back and forth to work. 45 miles on a single
> > charge.
>
> > 73 OM
> > n8zu- Hide quoted text -
>
> - Show quoted text -
```

I think I am going to try charging it through a 10 amp constant current source. If it works the way I am thinking as the battery nears full charge the pass transistor should saturate applying nearly full generator voltage across the battery topping off the battery. Im thinking(hoping) that when this occours the voltage drop across the transistor may be just enough to yield nearly the ideal float voltage for the batteries.

The batteries normally power my heater and lights for my popup camper and a couple of radios that are mostly used for rx. With only an initial charge from the battey charger before leaving home I can camp about 4 days. With some additioal charging I am hoping to extend it another 2 oor 3 days. Since our trips usually include a few hours a day of driving I thought I would use this oppurtunity to top off the batteries. I have leaned against the idea of just running the engine for that purpose. The incandescent bulbs I am using in the camper are the main draw on the batteries perhaps going to LEDs would help.

From 1115296234303806215
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!volia.net!news2.volia.net!feed-A.news.volia.net!newsfeed01.sul.t-online.de!newsfeed00.sul.t-online.de!t-online.de!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
Date: Tue, 18 Nov 2008 08:46:24 +0100 (CET)
Organization: Mostly In Piles
Lines: 61
Message-ID: <Xns9B5A120DDA5BA2MDWN@194.177.96.78>
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com>
<355e6bae-ab52-4d0e-8fde-ffa06fec1d7d@c36g2000prc.googlegroups.com>
<Xns9B59BE2C59F02MDWN@194.177.96.78>
<1fa6ec49-6eab-4cb6-8eeb-2ad47bd5e460@w1g2000prk.googlegroups.com>
NNTP-Posting-Host: Ud/lTGgBnh4V4SSO1Fzx5w.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Tue, 18 Nov 2008 07:46:24 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1204

Howdy,

The saturation voltage will probably be less than a volt, likely only a few tenths of a volt. When the vehicle is running the output voltage could be too high. A transistor that comfortably handles the ten amps is going to be something like a 2N2955 or 2N3055 there are curves on the data sheets that tell the story. As the current souce runs out of compliance and the current drops, the output voltage rises because the saturation voltage decreases.

There is an easy fix if you use a PNP pass transistor. Clamp the base at 13.6V plus a base emitter drop, say 0.8V, the output can't rise higher than the float voltage.

Better yet, use a TL431 to sense the battery voltage to end the constant current charge by reducing the bias and enter float mode. (The TL431 is a very handy device and cheap. Check the app notes and I'm sure you'll find many other uses for it.) Then either NPN or PNP will work, choose your poison.

I modified a junky old eight amp Kmart charger like this with a PNP device for charging the six volt battery in my tractor.

You'll need some sort of short circuit protection. During a short the ten amps times the supply voltage will be dissipated in the pass device. Could be a fuse or breaker or active protection. I left this out of my first attempt and the pass device didn't like being shorted for even a moment. Luckily I tested this before putting it all back together rather than finding out later on in a snow storm. The existing thermal breaker was much too slow.

LEDs would be a huge improvement.

73,
Grumpy

JIMMIE <jimmie68@gmail.com> wrote in news:1fa6ec49-6eab-4cb6-8eeb-2ad47bd5e460@w1g2000prk.googlegroups.com:

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> full charge the pass transistor should saturate applying nearly full
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> batteries. I have leaned against the idea of just running the engine
> for that purpose. The incandescent bulbs I am using in the camper are
> the main draw on the batteries perhaps going to LEDs would help.
>

```
From -6056593047788824397
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!35g2000pry.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
Date: Tue, 18 Nov 2008 01:44:01 -0800 (PST)
Organization: http://groups.google.com
Lines: 75
Message-ID: <bd86116f-bbc7-42a3-b414-bb8b224666ca@35g2000pry.googlegroups.com>
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com>
     <355e6bae-ab52-4d0e-8fde-ffa06fec1d7d@c36g2000prc.googlegroups.com>
     <Xns9B59BE2C59F02MDWN@194.177.96.78>
<1fa6ec49-6eab-4cb6-8eeb-2ad47bd5e460@w1g2000prk.googlegroups.com>
     <Xns9B5A120DDA5BA2MDWN@194.177.96.78>
NNTP-Posting-Host: 76.226.127.85
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227001441 6809 127.0.0.1 (18 Nov 2008 09:44:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 18 Nov 2008 09:44:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 35g2000pry.googlegroups.com; posting-host=76.226.127.85;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3656

On Nov 18, 2:46=A0am, Grumpy The Mule <s_foo...@foo.bar> wrote:
> Howdy,
>
> The saturation voltage will probably be less than a volt,
> likely only a few tenths of a volt. =A0When the vehicle is
> running the output voltage could be too high. =A0A transistor
> that comfortably handles the ten amps is going to be something
> like a 2N2955 or 2N3055 there are curves on the data sheets
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> and the current drops, the output voltage rises because the
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> Better yet, use a TL431 to sense the battery voltage to end the
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> (The TL431 is a very handy device and cheap. =A0Check the app notes
```

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> You'll need some sort of short circuit protection. =A0During a short
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> device. =A0Could be a fuse or breaker or active protection. =A0I left
> this out of my first attempt and the pass device didn't like being
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> all back together rather than finding out later on in a snow storm.
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>
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> 73,
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>
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> 2ad47bd5e...@w1g2000prk.googlegroups.com:
>
>
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> > for that purpose. The incandescent bulbs I am using in the camper are
> > the main draw on the batteries perhaps going to LEDs would help.- Hide =
quoted text -
>
> - Show quoted text -

Saturation voltage my oh my. A simple DC to DC convertor on the gate
of a FET of like 4 milli ohm so no more Vsat. I've done it with the
UC3906 which is designed to charge lead acid. All you need is a source
that'll will handle all that current. All the tricks I've seen done
with lead acid charging constant current will fawk up ur battery
unless you know when to shut it off like the UC3906 does.
Maybe 3 TL431's as sensors and you can do it. But the UC3906 can
sense a shorted cell and will not charge the battery if there is a
shorted cell.

73 OM
n8zu

```
From 1459721437439546232
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!c22g2000prc.googlegroups.com!not-for-
mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: weller EC2002C soldering station
Date: Tue, 18 Nov 2008 02:30:54 -0800 (PST)
Organization: http://groups.google.com
Lines: 16
Message-ID: <07e60cd4-2a83-4d86-8f86-d86c8463fc3e@c22g2000prc.googlegroups.com>
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
NNTP-Posting-Host: 75.34.27.147
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227004254 16214 127.0.0.1 (18 Nov 2008 10:30:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 18 Nov 2008 10:30:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c22g2000prc.googlegroups.com; posting-host=75.34.27.147;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
     .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506;
     InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3657
```

```
On Oct 31, 5:47=A0pm, "Ralph Mowery" <rmowery28...@earthlink.net> wrote:
> I was given this Weller soldering station. =A0The display is not working.=
 =A0It
> does flash 888 on it when first turned on. =A0The tip does heat up, but I=
 have
> not determined if I can vary the heat or not. =A0Also have an extra solde=
ring
> pencle that plugs in it. =A0Changed them to see if the display would ligh=
t,
> but it didnot. =A0Any hints on it ?
```

They gave it to you because Weller stuff is junk. I have seen more
Weller soldering stations fail then I care to remember over the years.
Don't spend a lot of time on it. Break down and buy a Hexacon station.
We have four here. They have worked flawlessly for over ten years with
heavy use.

```
From 2906031822009271847
X-Google-Thread: fc2a5,2a05b9acf3aa71
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.clear.net.nz!news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 18 Nov 2008 05:46:28 -0600
Date: Wed, 19 Nov 2008 00:46:35 +1300
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew breadboard xmtr
References: <gfdmdq01f4h@news6.newsguy.com> <wsCdnXAGXr3jg4LUnZ2dnUVZ_oLinZ2d@web-ster.com> <12bf1192-4c25-4628-86f0-0ff72d87767b@u18g2000pro.googlegroups.com>
In-Reply-To: <12bf1192-4c25-4628-86f0-0ff72d87767b@u18g2000pro.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 081117-0, 17/11/2008), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-4-119.dsl.telstraclear.net
Message-ID: <4922ab11$1@clear.net.nz>
X-Original-Trace: 19 Nov 2008 00:46:25 +1300, 121-72-4-119.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints abuse@clear.net.nz
Lines: 80
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-AuthenticatedUsername: news10531
X-Trace: sv3-j8VaOmnfJf8QFehhV2gW8hLrhVyFIQFfZUglKN9OZ7P1GR6OMsyn13nPl0C1eQW0dFcCqoel40EP0iu!FTnOhrqZFfuHUVOkSYWfuiSKDh8BJY1sgkzrD18q6yBs410+381W9Gsc9A==
X-Complaints-To: abuse@clear.net.nz
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1207
```

JIMMIE wrote:

> On Nov 15, 2:10 pm, Tim Wescott <t...@seemywebsite.com> wrote:
>
>>exray wrote:
>>
>>>Hi,
>>>I've gotten far enough along with this project to where I'm ready to
>>>toss it out for public scrutiny, so have at me, guys.
>>

>>>I'm a receiver guy - never built a tube transmitter from scratch and
>>>this is my first go. My goals were, in no particular order, to build
>>>something with a early 30s breadboard look, xtal control, 40/20 meters
>>>primarily - 80/30 as bonus, moderate power for getting on the air
>>>barefoot while not overpowering a future amp idea...and of course using
>>>accessible parts.
>>
>>>This is sort of my compilation of ideas from old QST articles. Robbed
>>>ideas from this and that to make them fit. I made some major boo-boos
>>>at first but I think I finally have them sorted out. Something that
>>>dawned on me a little bit slowly is that none of those old xmtrs were
>>>set up to operate 40 meters with a 7 Mc xtal. Much of the emphasis was
>>>on double this/double that. Nowadays we have 7 and 14 Mc fundamental
>>>xtals abounding so I went the route of reinventing the wheel so to speak.
>>
>>>The rig is working at this stage...at least straight thru on 40. Waiting
>>>for some other bits and bobs to carry on to other bands. The note
>>>sounds good and its nothing I'm reluctant to put on the air. On the
>>>other hand its a massive amount of wood and metal for a measly 5 or 6
>>>watts :) A little slatboard 6V6 chirper would have been much easier.
>>
>>>Anyway, I'm not a veteran with old xmtrs so I'm putting it out for
>>>comments, questions, critiques, etc. Flame suit is handy!
>>
>>>Schematic:
>>>http://i132.photobucket.com/albums/q18/billynaty/1stXmtr/schema111108...
>>
>>>View:
>>>http://i132.photobucket.com/albums/q18/billynaty/1stXmtr/Dscf1436.jpg
>>
>>>-Bill WX4A/KP4
>>
>>Nothing that pretty can possibly work.
>>
>>:-)
>>
>>--
>>
>>Tim Wescott
>>Wescott Design Serviceshttp://www.wescottdesign.com
>>
>>Do you need to implement control loops in software?
>>"Applied Control Theory for Embedded Systems" gives you just what it says.
>>See details athttp://www.wescottdesign.com/actfes/actfes.html- Hide quoted text
-
>>
>>- Show quoted text -
>
>
> Looks like something I found in my grandfather's car house. His was a
> wood frame with copper sheeting. He said he built it a few years
> before WWII. We cleaned it up and he fired it up and he lit up a
> little light bulb so I'm figuring 3 or 4 watts. After that I polished

> up the copper and really cleaned it up and fired it up one more time.
> He ran a depot for the railroad and was always going to get his ham
> ticket but never did though he knew morse code extremely well and
> built several transmitters and receivers.
>
>
> Jimmie

Very Nice Tim OM!
A few years back I built an 80M rig from a 1928 QST design.
A bit bigger than that basically a T20 triode driving (I think)a 100TH
Colpitts oscillator and power amplifier. It worked surprisingly well,
put out about 60 watts and to mysurprise was much more stable that I
expected given a VFO putting out about 7 watts of RF!!!
Had few QSO's with it and then had to dispose of it when I retired and
moved house. I hope my fellow NZ Vintage radio club member is looking
after it! Of course they can be a bit lethal mine had 1Kv ht and apart
from an insulated front panel it was all accessible.
73 Cliff Wright ZL1BDA ex G3NIA

From -8261230615282072346
X-Google-Thread: fc2a5,4da60416ef44f0c4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.clear.net.nz!news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 18 Nov 2008 05:50:56 -0600
Date: Wed, 19 Nov 2008 00:51:02 +1300
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Article about a portable PC that runs on 12v?
References: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com> <gfkvam$i6s$1@aioe.org>
In-Reply-To: <gfkvam$i6s$1@aioe.org>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 081117-0, 17/11/2008), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-4-119.dsl.telstraclear.net
Message-ID: <4922ac1d$1@clear.net.nz>
X-Original-Trace: 19 Nov 2008 00:50:53 +1300, 121-72-4-119.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints abuse@clear.net.nz
Lines: 23
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-AuthenticatedUsername: news10531
X-Trace: sv3-GB9FCotHX/fKB6awyGCIFa0R4deTHRvYGuo+pxJO0yGYiNSXZZPyw/VYR/thwRZLQc7Y/

```
OjpjvcUHyp!HHf3KxMiupGMVrdOZad4k4tHVte1A8t0MEoyFFe7FirG3Bt8iCdeMQmIvg==
X-Complaints-To: abuse@clear.net.nz
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3659

#!/bin/bash wrote:

> KC7PM wrote:
>
>>I saw something in the last year or two about building a PC that runs
>>entirely on 12V and with low power consumption.  Does anyone know
>>where I can find that article or website?
>
>
> Oh you can roll your own quite easily.  Go to http://www.mini-box.com
> and put together a combination of case, system board, and power supply.
>  You'll need to add memory and disk to it, as well.  I'm currently using
> an Intel system board (D945GCLF2) which comes with a dual core Atom 330
> processor soldered on.  I'm running my on 110VAC but it's quite a
> capable system board and I wouldn't hesitate to try to build a 12VDC
> system around it.
Of course you can roll your own switchmode psu from 12 volts to whatever
votage a laptop requires. That would be easiest. I've made a couple from
a circuit in the Aussie magazine "Silicon Chip" a year or so back and
they have worked well. The output can be varied from 12 volts to about
20 volts at up to 3 amps with no problems. I used mine to run a laptop
to drive my telescope in the field from a car battery supply.
Cliff Wright ZL1BDA


From -359644419723546677
X-Google-Thread: fc2a5,b2ec69f4d35c5dd,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!u29g2000pro.googlegroups.com!not-for-
mail
From: kendal.goodson@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Question about unwanted VFO pulling during transmit
Date: Tue, 18 Nov 2008 06:22:19 -0800 (PST)
Organization: http://groups.google.com
Lines: 21
Message-ID: <8a21c62a-4311-4e3b-a0fc-01808006b7df@u29g2000pro.googlegroups.com>
NNTP-Posting-Host: 66.148.153.108
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1227018139 25257 127.0.0.1 (18 Nov 2008 14:22:19 GMT)
X-Complaints-To: groups-abuse@google.com
```

```
NNTP-Posting-Date: Tue, 18 Nov 2008 14:22:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u29g2000pro.googlegroups.com; posting-host=66.148.153.108;
     posting-account=eAoMFQoAAAD90cDWNr1A3WHL08KDNabV
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR
     3.0.04506.648),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1209
```

Hello all,

Can someone explain to me the mechanism of how a VFO "pulls" during transmit? I have a transmitter circuit I've breadboarded, ugly construction style, and the VFO will pull up ~2kHz with the key down. The transmitter circuit is borrowed almost verbatim from the K1SWL SW40+ transceiver.

I've checked the following:

1. dropped off the driver and final amp circuit with no change in behavior
2. the tuning voltage to the varactor in the tank circuit does not change during keydown.

I know there could be several answers here. What should I be looking for?

Thanks to all,
Kenn
KA5KXW

```
From -8422521303725653794
X-Google-Thread: fc2a5,b2ec69f4d35c5dd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
From: <hmtavella@cybertap.com.ar>
Newsgroups: rec.radio.amateur.homebrew
References: <8a21c62a-4311-4e3b-a0fc-01808006b7df@u29g2000pro.googlegroups.com>
Subject: Re: Question about unwanted VFO pulling during transmit
Date: Tue, 18 Nov 2008 14:08:47 -0300
Lines: 32
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 5.00.2919.6600
X-MIMEOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
NNTP-Posting-Host: $$6cknniingh7n6.news.x-privat.org
Message-ID: <4922e71d@news.x-privat.org>
Organization: X-Privat.Org NNTP Server - http://www.x-privat.org
X-Authenticated-User: $$l1dodqu9tn$idhdv-zi5hlm-q
X-Complaints-To: abuse@x-privat.org
Path: g2news2.google.com!news1.google.com!news.glorb.com!x-privat.org!not-for-mail
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:3661

hI:

Try shielding your VFO
Good Luck

Heriberto
LU6DBU
<kendal.goodson@gmail.com> escribi� en el mensaje
news:8a21c62a-4311-4e3b-a0fc-01808006b7df@u29g2000pro.googlegroups.com...
> Hello all,
>
> Can someone explain to me the mechanism of how a VFO "pulls" during
> transmit? I have a transmitter circuit I've breadboarded, ugly
> construction style, and the VFO will pull up ~2kHz with the key down.
> The transmitter circuit is borrowed almost verbatim from the K1SWL
> SW40+ transceiver.
>
> I've checked the following:
>
> 1. dropped off the driver and final amp circuit with no change in
> behavior
> 2. the tuning voltage to the varactor in the tank circuit does not
> change during keydown.
>
> I know there could be several answers here. What should I be looking
> for?
>
> Thanks to all,
> Kenn
> KA5KXW

From -91780876659196195
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
Date: Tue, 18 Nov 2008 17:09:12 +0100 (CET)
Organization: Mostly In Piles
Lines: 27
Message-ID: <Xns9B5A674DDC0672MDWN@194.177.96.78>
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com>
<355e6bae-ab52-4d0e-8fde-ffa06fec1d7d@c36g2000prc.googlegroups.com>
<Xns9B59BE2C59F02MDWN@194.177.96.78>
<1fa6ec49-6eab-4cb6-8eeb-2ad47bd5e460@w1g2000prk.googlegroups.com>
<Xns9B5A120DDA5BA2MDWN@194.177.96.78>
NNTP-Posting-Host: mCkKyPp8+ae8u2WQrFgLTg.user.aioe.org

X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Tue, 18 Nov 2008 16:09:12 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1211

Howdy,

Geez... I read this and it confused me. I haven't been sleeping much and shouldn't post late at night.

The easy fix is to use an emitter follower circuit where the the constant current load is connected to the emitter. If you put the regulator in the Positive side lead use an NPN.

In my instance the current regulator's pass transistor is in the negative lead so the heatsink is at the same potential as the vehicle chassis. No insulating hardware is required.

73,
Grumpy

Grumpy The Mule <s_foonly@foo.bar> wrote in
news:Xns9B5A120DDA5BA2MDWN@194.177.96.78:

> There is an easy fix if you use a PNP pass transistor. Clamp
> the base at 13.6V plus a base emitter drop, say 0.8V, the output
> can't rise higher than the float voltage.

From 2741696992695836003
X-Google-Thread: fc2a5,b2ec69f4d35c5dd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
news.mixmin.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question about unwanted VFO pulling during transmit
Date: Tue, 18 Nov 2008 17:21:53 +0100 (CET)
Organization: Mostly In Piles
Lines: 19
Message-ID: <Xns9B5A6973E4A342MDWN@194.177.96.78>
References: <8a21c62a-4311-4e3b-a0fc-01808006b7df@u29g2000pro.googlegroups.com>
NNTP-Posting-Host: mCkKyPp8+ae8u2WQrFgLTg.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Tue, 18 Nov 2008 16:21:53 +0000 (UTC)
User-Agent: Xnews/5.04.25

X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3663

Howdy,

If the supply voltage to the oscillator changes, even though the tuning voltage is stable, it may chirp or pull.

If the change is slow look for thermally induced changes like
You may not be able to feel this change with a finger. Applying a bit more heat to suspected parts might indicate the culprit.

Also look for changes in the voltage on large capacitors. It wouldn't be unusual for bias voltages to change when the oscillator starts up. An extreme case of this is squegging.

73,
Grumpy

From -5525348132243671583
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.brightview.com!news.brightview.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 18 Nov 2008 10:22:51 -0600
From: HighlandObserver@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
Date: Tue, 18 Nov 2008 16:22:51 +0000
Sender: HighlandObserver@gmail.com
Reply-To: HighlandObserver@gmail.com
Message-ID: <duq5i450pofnqgsre6qgu610gk873rv4lv@4ax.com>
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com> <bt41i4tcebp44tl0694j629jbn1be81cnq@4ax.com> <8795bf5a-715c-4a24-8290-ab69d748782a@e1g2000pra.googlegroups.com>
X-Newsreader: Forte Agent 5.00/32.1160
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 6
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 194.105.190.17
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint

properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1213

On Mon, 17 Nov 2008 09:06:28 -0800 (PST), JIMMIE <jimmie68@gmail.com> wrote:

>I didnt think you could charge a deep cycle battery in an
>automotive system without damaging the battery.

Hmmm mine is 7yrs old

From -6682249298668494819
X-Google-Thread: fc2a5,b2ec69f4d35c5dd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news2!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question about unwanted VFO pulling during transmit
Date: Tue, 18 Nov 2008 16:58:09 +0000
Organization: Bias Comms
Lines: 45
Message-ID: <6ogahsF3597pU1@mid.individual.net>
References: <8a21c62a-4311-4e3b-a0fc-01808006b7df@u29g2000pro.googlegroups.com>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net 97idyURhycm9CpY/EWLPWgYL9V+NHMeHY13bI1KlBLhhgVwbo4
Cancel-Lock: sha1:GI2nYMOKavpYSa37v1w9jxBc0mI=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1214

kendal.goodson@gmail.com wrote:

> Hello all,
>
> Can someone explain to me the mechanism of how a VFO "pulls" during
> transmit? I have a transmitter circuit I've breadboarded, ugly
> construction style, and the VFO will pull up ~2kHz with the key down.
> The transmitter circuit is borrowed almost verbatim from the K1SWL
> SW40+ transceiver.
>
> I've checked the following:
>
> 1. dropped off the driver and final amp circuit with no change in
> behaviour
> 2. the tuning voltage to the varactor in the tank circuit does not
> change during keydown.
>

> I know there could be several answers here. What should I be looking
> for?

There could be many culprits:

Check the supply voltage to the oscillator. Does it change when the key's down? If so, try better supply regulation to the oscillator.

Does anything get warm either in the oscillator or nearby? If so, you've got thermal problems - changing the layout may help, or correcting the thermal drift with temperature-compensating components (I used to use thermistors to change the bias on varicap diodes to do this).

Does the loading on the output of the oscillator change at key down? If so, you need a better buffer stage. I usually use FET buffers for very light loading (high input impedance).

If all else fails, you're going to have to either rebuild the oscillator, or consider some kind of stabiliser. I sometimes use PLL circuits (you can get 1 kHz steps on any band up to 30 MHz with just three cheap 74HC chips) or a fast "huff-and-puff" stabiliser for stable tuning with very small step size - see http://downloads.hanssummers.com/qexnov98.pdf - which is astonishingly stable and very cheap to build.

HTH

Bob

From -5891138536999577876
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
Date: Tue, 18 Nov 2008 18:14:39 +0100 (CET)
Organization: Mostly In Piles
Lines: 42
Message-ID: <Xns9B5A7266041062MDWN@194.177.96.78>
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com>
<355e6bae-ab52-4d0e-8fde-ffa06fec1d7d@c36g2000prc.googlegroups.com>
<Xns9B59BE2C59F02MDWN@194.177.96.78>
<1fa6ec49-6eab-4cb6-8eeb-2ad47bd5e460@w1g2000prk.googlegroups.com>
<Xns9B5A120DDA5BA2MDWN@194.177.96.78>
NNTP-Posting-Host: mCkKyPp8+ae8u2WQrFgLTg.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Tue, 18 Nov 2008 17:14:39 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4

Xref: g2news1.google.com rec.radio.amateur.homebrew:1215

Howdy

I didn't describe this fully.

Dissipation protection... Put the diode of an optocoupler with a resistor in series across the pass device's emitter and collector. Then connect the opto's transistor to the reference feeding the base of the pass device. Adjust the resistor in series with the LED so that when there's too much voltage across the pass device the led lights and decreases the reference voltage which reduces the current in the pass device.

Another way to do this requires a zener, two transistors and three resistors. Optos are cheap enough and it's less parts to wire up.

I fused the output in case something breaks, to keep the circuit from being slagged. In a short the thermal breaker on the transformer took about 45 seconds to trip. I've no idea what the fault current was but the needle of the lazy ten amp full scale meter that's built into the charger was slammed forcefully against the stop.

73,
Grumpy

Grumpy The Mule <s_foonly@foo.bar> wrote in
news:Xns9B5A120DDA5BA2MDWN@194.177.96.78:

> You'll need some sort of short circuit protection. During a short
> the ten amps times the supply voltage will be dissipated in the pass
> device. Could be a fuse or breaker or active protection. I left
> this out of my first attempt and the pass device didn't like being
> shorted for even a moment. Luckily I tested this before putting it
> all back together rather than finding out later on in a snow storm.
> The existing thermal breaker was much too slow.
>

From 2700378062558064447
X-Google-Thread: fc2a5,b2ec69f4d35c5dd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!w1g2000prk.googlegroups.com!not-for-mail
From: Kendal Goodson <kendalg@yahoo.com>

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question about unwanted VFO pulling during transmit
Date: Tue, 18 Nov 2008 09:25:45 -0800 (PST)
Organization: http://groups.google.com
Lines: 25
Message-ID: <c6d9a871-5210-4248-a5bc-eb7e2c323a58@w1g2000prk.googlegroups.com>
References: <8a21c62a-4311-4e3b-a0fc-01808006b7df@u29g2000pro.googlegroups.com>
<Xns9B5A6973E4A342MDWN@194.177.96.78>
NNTP-Posting-Host: 66.148.153.108
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227029145 17989 127.0.0.1 (18 Nov 2008 17:25:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 18 Nov 2008 17:25:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w1g2000prk.googlegroups.com; posting-host=66.148.153.108;
posting-account=eAoMFQoAAAD90cDWNr1A3WHL08KDNabV
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR
3.0.04506.648),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3667

On Nov 18, 10:21=A0am, Grumpy The Mule <s_foo...@foo.bar> wrote:
> Howdy,
>
> If the supply voltage to the oscillator changes, even though the
> tuning voltage is stable, it may chirp or pull.
>
> If the change is slow look for thermally induced changes like
> You may not be able to feel this change with a finger. Applying
> a bit more heat to suspected parts might indicate the culprit. =A0
>
> Also look for changes in the voltage on large capacitors. It
> wouldn't be unusual for bias voltages to change when the oscillator
> starts up. =A0An extreme case of this is squegging.
>
> 73,
> Grumpy

Thanks Grumpy. I'll check supply voltage next. It's not a thermal
problem. The output is nice and stable until key down when it pulls.
It's also frequency stable during keydown, just on a different
frequency. The oscillator isn't keyed, so I don't think it's an
oscillator startup issue.

73,
Kenn

From -5846715624475838809
X-Google-Thread: fc2a5,2a05b9acf3aa71

X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
i18g2000prf.googlegroups.com!not-for-mail
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew breadboard xmtr
Date: Tue, 18 Nov 2008 11:02:56 -0800 (PST)
Organization: http://groups.google.com
Lines: 58
Message-ID: <15f8b95e-a2ae-46a0-8a43-5da21face1bf@i18g2000prf.googlegroups.com>
References: <gfdmdq01f4h@news6.newsguy.com>
NNTP-Posting-Host: 72.0.177.83
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227034976 10818 127.0.0.1 (18 Nov 2008 19:02:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 18 Nov 2008 19:02:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i18g2000prf.googlegroups.com; posting-host=72.0.177.83;
     posting-account=LQVNZAkAAAAHQ9vQRrCB-Qc9fLbREhw4
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.4)
     Gecko/2008102920 Firefox/3.0.4,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1217

Hi, Bill.
Indeed it is a great looking project.

I don't see anyone attempting to answer you question about why the
early transmitters always doubled or tripled from stage to stage. As I
recall, this was used to minimize the loading on previous stages as a
subsequent stage was tuned. The loading caused frequency changes. This
was used only on triode tubes. When screen grid stages were used, it
was no longer necessary.

Further research would have shown 160 meter crystals were frequently
used to control 80 meter transmitters. It wasn't just because the
higher frequency crystals were not available. They were just more
expensive.

Again, a great looking project. I do see a modern resister in there,
however.

73's, Paul, KD7HB

On Nov 11, 8:35=A0pm, exray <radioex...@geeemail.com> wrote:
> Hi,
> I've gotten far enough along with this project to where I'm ready to
> toss it out for public scrutiny, so have at me, guys.
>

> I'm a receiver guy - never built a tube transmitter from scratch and
> this is my first go. =A0My goals were, in no particular order, to build
> something with a early 30s breadboard look, xtal control, 40/20 meters
> primarily - 80/30 as bonus, moderate power for getting on the air
> barefoot while not overpowering a future amp idea...and of course using
> accessible parts.
>
> This is sort of my compilation of ideas from old QST articles. =A0Robbed
> ideas from this and that to make them fit. =A0I made some major boo-boos
> at first but I think I finally have them sorted out. =A0Something that
> dawned on me a little bit slowly is that none of those old xmtrs were
> set up to operate 40 meters with a 7 Mc xtal. =A0Much of the emphasis was
> on double this/double that. =A0Nowadays we have 7 and 14 Mc fundamental
> xtals abounding so I went the route of reinventing the wheel so to speak.
>
> The rig is working at this stage...at least straight thru on 40.
> Waiting for some other bits and bobs to carry on to other bands. =A0The
> note sounds good and its nothing I'm reluctant to put on the air. =A0On
> the other hand its a massive amount of wood and metal for a measly 5 or
> 6 watts :) =A0A little slatboard 6V6 chirper would have been much easier.
>
> Anyway, I'm not a veteran with old xmtrs so I'm putting it out for
> comments, questions, critiques, etc. =A0Flame suit is handy!
>
> Schematic:http://i132.photobucket.com/albums/q18/billynaty/1stXmtr/schema=
111108...
>
> View:http://i132.photobucket.com/albums/q18/billynaty/1stXmtr/Dscf1436.jp=
g
>
> -Bill WX4A/KP4

From -6156931908758762662
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 18 Nov 2008 13:16:55 -0600
Date: Tue, 18 Nov 2008 19:16:57 +0000
From: highlandham <rfburns@nospam.sco>
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: weller EC2002C soldering station
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com> <490BECC9.3070005@NETTALLY.COM> <Xns9B499C88C85BC2MDWN@194.177.96.78> <9ea9aaa3-b83c-465e-b370-d13686810d01@a17g2000prm.googlegroups.com> <EPJTk.66346$Ep1.55496@bignews2.bellsouth.net> <Xns9B57D8DD99DA12MDWN@194.177.96.78> <P+e96NG2F9HJFAkD@ifwtech.co.uk>

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<Xns9B58AE6F762962MDWN@194.177.96.78> <4inwt7LtvSIJFAqN@ifwtech.co.uk>
<JCw8VCazAWIJFAOj@ifwtech.co.uk> <Xns9B597C127AF762MDWN@194.177.96.78>
In-Reply-To: <Xns9B597C127AF762MDWN@194.177.96.78>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <JP2dnZ5xvJ06ib7UnZ2dnUVZ8qPinZ2d@pipex.net>
Lines: 12
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NNTP-Posting-Host: 71.107.29.68
X-Trace: sv3-
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IO6mccpo6GY816H3bIM/yKXe+AAysRu1Ieh4twdFyLfX7roc+f5KtCYTDYJd+ZltlR+RoWFvQG/F!
PLC3snGmEO11G93C2Txh/Bzd
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1218

> Wahl is still selling their battery powered soldering
> iron.  I used to own one of those until the nicad's
> went bad.  They're in Sterling Ill.
=======================================
I am using a Wahl battery powered soldering iron since the 1980s
However the battery charger is rather crude ;just a transformer with an
embedded diode.
I have changed the charging circuit by using a 12V transformer
,rectifier and an LM317 and a switch enabling charging at 300 mA (when
soldering iron is in use)and 10 mA (permanently) when iron is not in use.

Frank    KN6WH                  (GM0CSZ temporarily in California)


From -5470197916382769966
X-Google-Thread: fc2a5,b2ec69f4d35c5dd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!
spln!extra.newsguy.com!newsp.newsguy.com!news5
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question about unwanted VFO pulling during transmit
Date: Tue, 18 Nov 2008 15:19:19 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 17
Message-ID: <gfv4fp01d8l@news5.newsguy.com>
References: <8a21c62a-4311-4e3b-a0fc-01808006b7df@u29g2000pro.googlegroups.com>
     <Xns9B5A6973E4A342MDWN@194.177.96.78> <c6d9a871-5210-4248-a5bc-
eb7e2c323a58@w1g2000prk.googlegroups.com>
NNTP-Posting-Host: pd55d6467661e1bf9ece0a4eeca681596799e98c607dcd554.newsdawg.com
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <c6d9a871-5210-4248-a5bc-eb7e2c323a58@w1g2000prk.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3670
X-Original-Bytes: 1502

Kendal Goodson wrote:

> Thanks Grumpy. I'll check supply voltage next. It's not a thermal
> problem. The output is nice and stable until key down when it pulls.
> It's also frequency stable during keydown, just on a different
> frequency. The oscillator isn't keyed, so I don't think it's an
> oscillator startup issue.
>
> 73,
> Kenn

I'm missing something. You said that the 'driver' etc were disconnected
and the osc is not being keyed.

So what is actually being keyed?

-Bill

From 4775786325725356344
X-Google-Thread: fc2a5,2a05b9acf3aa71
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
cyclone1.gnilink.net!gnilink.net!spln!extra.newsguy.com!newsp.newsguy.com!news5
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew breadboard xmtr
Date: Tue, 18 Nov 2008 15:25:07 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 32
Message-ID: <gfv4ql01djs@news5.newsguy.com>
References: <gfdmdq01f4h@news6.newsguy.com> <15f8b95e-
a2ae-46a0-8a43-5da21face1bf@i18g2000prf.googlegroups.com>
NNTP-Posting-Host: pb3eb419107c096a709da0b136c02114aac25c562f50a4507.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <15f8b95e-a2ae-46a0-8a43-5da21face1bf@i18g2000prf.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1220
X-Original-Bytes: 2124

pdrahn@coinet.com wrote:

> Hi, Bill.
> Indeed it is a great looking project.
>
> I don't see anyone attempting to answer you question about why the early transmitters always doubled or tripled from stage to stage. As I recall, this was used to minimize the loading on previous stages as a subsequent stage was tuned. The loading caused frequency changes. This was used only on triode tubes. When screen grid stages were used, it was no longer necessary.
>
> Further research would have shown 160 meter crystals were frequently used to control 80 meter transmitters. It wasn't just because the higher frequency crystals were not available. They were just more expensive.
>
> Again, a great looking project. I do see a modern resister in there, however.
>
> 73's, Paul, KD7HB

Thanks, Paul. There wasn't really a question there other than the rhetorical observation that 'straight-thru' operation on 7 Mc and above wasn't the norm. Thats not always clear to the reader in year 2008!

As for the modern resistor...umm, well, there's more than one in there at this stage of experimentation :) Will take care of that after nailing down all of the parameters.

73,
-Bill

From -3053116634437610187
X-Google-Thread: fc2a5,b2ec69f4d35c5dd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!v22g2000pro.googlegroups.com!not-for-mail
From: Kendal Goodson <kendalg@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question about unwanted VFO pulling during transmit
Date: Tue, 18 Nov 2008 14:21:39 -0800 (PST)
Organization: http://groups.google.com
Lines: 29
Message-ID: <94ddf96b-a61d-4e16-b5c2-c4dd1d72e488@v22g2000pro.googlegroups.com>
References: <8a21c62a-4311-4e3b-a0fc-01808006b7df@u29g2000pro.googlegroups.com>
<Xns9B5A6973E4A342MDWN@194.177.96.78> <c6d9a871-5210-4248-a5bc-eb7e2c323a58@w1g2000prk.googlegroups.com>
<gfv4fp01d8l@news5.newsguy.com>
NNTP-Posting-Host: 66.148.153.108
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 18 Nov 2008 22:21:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR
     3.0.04506.648),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1221

On Nov 18, 1:19=A0pm, exray <radioex...@geeemail.com> wrote:
> Kendal Goodson wrote:
> > Thanks Grumpy. =A0I'll check supply voltage next. It's not a thermal
> > problem. =A0The output is nice and stable until key down when it pulls.
> > It's also frequency stable during keydown, just on a different
> > frequency. =A0The oscillator isn't keyed, so I don't think it's an
> > oscillator startup issue.
>
> > 73,
> > Kenn
>
> I'm missing something. =A0You said that the 'driver' etc were disconnecte=
d
> and the osc is not being keyed.
>
> So what is actually being keyed?
>
> -Bill

I see I've done a poor job of writing up the problem statement.  The
VFO at ~3.050 feeds a SA612 whose internal oscillator runs at 4.0 Mhz
and mixes the two to come up with ~7.050Mhz.  Output from the mixer
goes through a tuned bandpass filter to a class A driver and then to a
class C final.  When I found I had a problem with the VFO staying on
frequency during transmit, I disconnected the driver stage and
replaced it with a resistor termination.  The problem stayed
consistent.  The SA612 and the buffer/driver stage are both keyed.

-Kenn


From 3092890153839367605
X-Google-Thread: fc2a5,b2ec69f4d35c5dd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2!news-
in-01.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-
nntp-09.dc1.easynews.com.POSTED!FUNGUS
Newsgroups: rec.radio.amateur.homebrew
From: gwhite@alum.mit.edu (Doug White)
```

```
Subject: Re: Question about unwanted VFO pulling during transmit
References: <8a21c62a-4311-4e3b-a0fc-01808006b7df@u29g2000pro.googlegroups.com>
X-Newsreader: News Xpress 2.01
Lines: 26
Message-ID: <xzHUk.263558$4p1.157377@en-nntp-09.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Tue, 18 Nov 2008 22:44:43 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3673

In article <8a21c62a-4311-4e3b-a0fc-01808006b7df@u29g2000pro.googlegroups.com>,
kendal.goodson@gmail.com wrote:
>Hello all,
>
>Can someone explain to me the mechanism of how a VFO "pulls" during
>transmit?  I have a transmitter circuit I've breadboarded, ugly
>construction style, and the VFO will pull up ~2kHz with the key down.
>The transmitter circuit is borrowed almost verbatim from the K1SWL
>SW40+ transceiver.
>
>I've checked the following:
>
>1. dropped off the driver and final amp circuit with no change in
>behavior
>2. the tuning voltage to the varactor in the tank circuit does not
>change during keydown.
>
>I know there could be several answers here.  What should I be looking
>for?

It could also be a loading/buffering issue.  If the load the VFO sees
changes when you key on the rest of the system, that will also cause
pulling.  You need lots of isolation between the two pieces.  A gain
stage with good front-to-back isolation followed by an attenuator will
provide plenty.

Doug White


From -7484625297938218590
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 18 Nov 2008 19:28:30 -0600
Date: Tue, 18 Nov 2008 17:28:20 +0000
From: highlandham <rfburns@nospam.sco>
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
MIME-Version: 1.0
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Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com>
     <bt41i4tcebp44tl0694j629jbn1be81cnq@4ax.com> <8795bf5a-715c-4a24-8290-
ab69d748782a@e1g2000pra.googlegroups.com>
In-Reply-To: <8795bf5a-715c-4a24-8290-ab69d748782a@e1g2000pra.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
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Message-ID: <Uv2dnWJjtbYj9r7UnZ2dnUVZ8hydnZ2d@pipex.net>
Lines: 17
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X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1223

JIMMIE wrote:
> On Nov 16, 4:42 pm, HighlandObser...@gmail.com wrote:
>> Why not use a traditional split charge relay.
>> Alternator output then becomes the limiting factor
>
> I didnt think you could charge a deep cycle battery in an
> automotive system without damaging the battery. Its my understanding
> that car batteries are designed for a quick charge at realativly high
> current while deep cycle batteries require a long low current charge.
> To make it work thought you had to have a special charge regulator for
> the deep cycle battery.

==========================
'Deep Cycle' batteries should be charged with a current not exceeding
0.1C , meaning that a 80Ah battery should be charged with a current not
exceeding 8 Amperes.

Frank   KN6WH

From 449574776890906962
X-Google-Thread: fc2a5,b2ec69f4d35c5dd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k24g2000pri.googlegroups.com!not-for-
mail
From: Kendal Goodson <kendalg@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question about unwanted VFO pulling during transmit
Date: Tue, 18 Nov 2008 17:32:46 -0800 (PST)
Organization: http://groups.google.com

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Lines: 42
Message-ID: <5fdaac42-62b7-4789-b9f4-65f4899e0f50@k24g2000pri.googlegroups.com>
References: <8a21c62a-4311-4e3b-a0fc-01808006b7df@u29g2000pro.googlegroups.com>
     <xzHUk.263558$4p1.157377@en-nntp-09.dc1.easynews.com>
NNTP-Posting-Host: 68.94.87.37
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1227058366 1000 127.0.0.1 (19 Nov 2008 01:32:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 19 Nov 2008 01:32:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k24g2000pri.googlegroups.com; posting-host=68.94.87.37;
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; PPC Mac OS X Mach-O; en;
     rv:1.8.1.11) Gecko/20071128 Camino/1.5.4,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1224

On Nov 18, 4:44 pm, gwh...@alum.mit.edu (Doug White) wrote:
> In article <8a21c62a-4311-4e3b-a0fc-01808006b...@u29g2000pro.googlegroups.com>,
kendal.good...@gmail.com wrote:
>
>
>
> >Hello all,
>
> >Can someone explain to me the mechanism of how a VFO "pulls" during
> >transmit?  I have a transmitter circuit I've breadboarded, ugly
> >construction style, and the VFO will pull up ~2kHz with the key down.
> >The transmitter circuit is borrowed almost verbatim from the K1SWL
> >SW40+ transceiver.
>
> >I've checked the following:
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> >1. dropped off the driver and final amp circuit with no change in
> >behavior
> >2. the tuning voltage to the varactor in the tank circuit does not
> >change during keydown.
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> >I know there could be several answers here.  What should I be looking
> >for?
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> It could also be a loading/buffering issue.  If the load the VFO sees
> changes when you key on the rest of the system, that will also cause
> pulling.  You need lots of isolation between the two pieces.  A gain
> stage with good front-to-back isolation followed by an attenuator will
> provide plenty.
>
> Doug White
I've located the problem.  I thought it would be something pretty
subtle and it turned out to be just that.  One of the pins on the
SA612 did not go into the socket properly.  It bent under and was just
```

almost touching the socket contact. I guess it was capacitively
coupling to the VFO output instead of getting a good feed. I've
straightened it and I'm up and running.

Thanks for all of the suggestions.

72,
Kenn
KA5KXW

```
From -61455417416167180
X-Google-Thread: fc2a5,b2ec69f4d35c5dd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!a29g2000pra.googlegroups.com!not-for-
mail
From: Kendal Goodson <kendalg@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question about unwanted VFO pulling during transmit
Date: Tue, 18 Nov 2008 17:33:16 -0800 (PST)
Organization: http://groups.google.com
Lines: 42
Message-ID: <5c53c4a1-f124-45e4-a0be-de141477da95@a29g2000pra.googlegroups.com>
References: <8a21c62a-4311-4e3b-a0fc-01808006b7df@u29g2000pro.googlegroups.com>
     <xzHUk.263558$4p1.157377@en-nntp-09.dc1.easynews.com>
NNTP-Posting-Host: 68.94.87.37
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1227058397 15860 127.0.0.1 (19 Nov 2008 01:33:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 19 Nov 2008 01:33:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a29g2000pra.googlegroups.com; posting-host=68.94.87.37;
     posting-account=eAoMFQoAAAD90cDWNr1A3WHL08KDNabV
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; PPC Mac OS X Mach-O; en;
     rv:1.8.1.11) Gecko/20071128 Camino/1.5.4,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1225
```

On Nov 18, 4:44 pm, gwh...@alum.mit.edu (Doug White) wrote:
> In article <8a21c62a-4311-4e3b-a0fc-01808006b...@u29g2000pro.googlegroups.com>,
kendal.good...@gmail.com wrote:
>
>
>
> >Hello all,
>
> >Can someone explain to me the mechanism of how a VFO "pulls" during
> >transmit? I have a transmitter circuit I've breadboarded, ugly
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```
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coupling to the VFO output instead of getting a good feed. I've
straightened it and I'm up and running.

Thanks for all of the suggestions.

72,
Kenn
KA5KXW


From -6822019699793761853
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 22 Nov 2008 21:42:15 -0600
Date: Sat, 22 Nov 2008 19:42:04 +0000
From: highlandham <rfburns@nospam.sco>
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
<FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>
<4926c4f8$0$31141$bd467cd0@news.dslextreme.com>
<343Wk.311$QX3.169@nwrddc02.gnilink.net>
In-Reply-To: <343Wk.311$QX3.169@nwrddc02.gnilink.net>
```

```
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <ftKdnfQTmcyKTLXUnZ2dnUVZ8qydnZ2d@pipex.net>
Lines: 13
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.107.29.68
X-Trace: sv3-jGIWSed8Zg9+ESQTA6wuIsdbApQx33KMaJMJuMc07WEKJtetc31UCeoIWHVtfo/
bkA4X4oWL1N+yzC/!e99nBpEaQaqVjw4Gj3p4BF3Xs4IewE+ARVnuOS/
FxeEEVbxDaWcH+P8aj+dfW1FdEJs6dVNcUo+6!z2IOf96MvAj07m/O8NHiKEx3
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.antenna:7511
rec.radio.amateur.homebrew:1573 alt.internet.wireless:4209

> I have need of a directional antenna for a 30 foot path within the house.
> (the microwave oven wipes out the signal).
>
> Do you have any better details on construction?
======================================================
If  your WiFi device is near the microwave oven , you indeed have a problem.
In my situation the oven is away (approx 7 - 8  metres) from the Wifi
system ,both router and laptop ,and I no longer had interference when
setting the WiFI System to the highest frequency (channel) with the
microwave oven freq at about 2390MHz.

Frank   KN6WH




From 2411580275063404060
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!v38g2000yqb.googlegroups.com!not-for-
mail
From: Knight <petelarosa@comcast.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
Date: Sun, 23 Nov 2008 06:05:03 -0800 (PST)
Organization: http://groups.google.com
Lines: 35
Message-ID: <ad1aef1d-2981-48be-bdd9-03ff4c8e51e6@v38g2000yqb.googlegroups.com>
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
     <FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>
<4926c4f8$0$31141$bd467cd0@news.dslextreme.com>
     <343Wk.311$QX3.169@nwrddc02.gnilink.net>
```

```
<ftKdnfQTmcyKTLXUnZ2dnUVZ8qydnZ2d@pipex.net>
NNTP-Posting-Host: 66.177.255.238
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227449103 23551 127.0.0.1 (23 Nov 2008 14:05:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 23 Nov 2008 14:05:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v38g2000yqb.googlegroups.com; posting-host=66.177.255.238;
     posting-account=UJYEUwoAAAAFqpOdYczadVTyr3djVSDv
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.0.3705; Media Center PC 3.1; .NET CLR 1.1.4322; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.antenna:5735
rec.radio.amateur.homebrew:1277 alt.internet.wireless:3107

  Guys!  I've been selling these Biquads for a long time now and
everyone absolutely
loves them.
  Check em out here...  http://www.biquadantenna.com
Sold 30 just this month alone, and get emails all the time from
clients
on how good their performance is.
   If it doesn't work, you get your money back! (minus shipping of
course)

Thanks for looking!
Pete




On Nov 22, 2:42=A0pm, highlandham <rfbu...@nospam.sco> wrote:
> > I have need of a directional antenna for a 30 foot path within the hous=
e.
> > (the microwave oven wipes out the signal).
>
> > Do you have any better details on construction?
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D
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> system ,both router and laptop ,and I no longer had interference when
> setting the WiFI System to the highest frequency (channel) with the
> microwave oven freq at about 2390MHz.
>
> Frank =A0 KN6WH
```

```
From -1116946587204471353
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
<FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>
<4926c4f8$0$31141$bd467cd0@news.dslextreme.com>
<343Wk.311$QX3.169@nwrddc02.gnilink.net>
Subject: Re: WiFi antenna recommendations?
Lines: 17
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <0aeWk.371$QX3.10@nwrddc02.gnilink.net>
Date: Sun, 23 Nov 2008 14:55:56 GMT
NNTP-Posting-Host: 71.104.213.214
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1227452156 71.104.213.214 (Sun, 23 Nov 2008 09:55:56
EST)
NNTP-Posting-Date: Sun, 23 Nov 2008 09:55:56 EST
Xref: g2news1.google.com rec.radio.amateur.antenna:5736
rec.radio.amateur.homebrew:1278 alt.internet.wireless:3108
X-Original-Bytes: 2109
```

> -
> I have need of a directional antenna for a 30 foot path within the house.
> (the microwave oven wipes out the signal).
>

Yikes! I have never seen that. I would be concerned about leakage. Sometimes I have torn into things and found stupid stuff like paint over grounding surfaces or rust in the compartment. There is a critical ground around the probe entrance.

My microwave oven is in the far corner of the house and I run 100 watts on VHF and 600 on HF at times and never had trouble. I never tried the laptop in the kitchen for fear of spillage. The Linksys is essentially on the floor to keep people in the park next door from ripping up my bandwidth. (although sometimes I would prefer geeks hanging out there to chase the rest out) No coverage problems at all. I do have an HT that gets "some" interference when I set it on top of the oven.

From 388335416296309423
X-Google-Thread: fc2a5,e51e81cc81858553
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <gg9p5k0pp0@news3.newsguy.com>
Subject: Re: SWR meter
Lines: 29
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <c9fWk.393$us6.264@nwrddc01.gnilink.net>
Date: Sun, 23 Nov 2008 16:03:20 GMT
NNTP-Posting-Host: 71.104.213.214
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1227456200 71.104.213.214 (Sun, 23 Nov 2008 11:03:20 EST)
NNTP-Posting-Date: Sun, 23 Nov 2008 11:03:20 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:1279
X-Original-Bytes: 2189

"exray" <radioexray@geeemail.com> wrote in message news:gg9p5k0pp0@news3.newsguy.com...
> I've got a cheapo CB swr meter which I thought might be suitable for
> some HF QRP work. Problem is that it is very insensitive on the HF
> freqs. Can't even get more than about 20% of the scale with 5 watts on
> 40 meters.
>
> It uses a stripline for pickup and I'm wondering if maybe I should
> replace that with a broadband toroid configuration. Any specific
> recommendations? How about adding some gimmick capacitance across the
> stripline to increase coupling?
>
> TIA,

> Bill WX4A

You might find they used 1n4148 diodes just to be cheap. Try Germanium like 1n270.

I built one out of the Handbook back in the 70's they called the Monimatch using a circuit board stripline. It was easy to cut rather than etching. I don't remember the year.

In the 78 issue there is one as you describe. The broadband torroid sensors are about standard in the autotuners and in some radios because they tune up at low power. They are small and don't add much inductance. You might even build it into a qrp rig and use a multi function meter scrapped out of an old tape recorder or a led bar graph.

```
From -8172120491946539723
X-Google-Thread: fc2a5,d0a8f5235f11844f,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!goblin1!goblin.stu.neva.ru!eweka.nl!hq-usenetpeers.eweka.nl!cyclone03.ams.highwinds-media.com!news.highwinds-media.com!npeersf02.ams.highwinds-media.com!newsfe29.ams2.POSTED!7564ea0f!not-for-mail
From: "Howard" <howardwj@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Seiwa Filter
Lines: 4
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
Message-ID: <RPgWk.6412$Dr1.2247@newsfe29.ams2>
NNTP-Posting-Host: 82.20.254.226
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe29.ams2 1227463025 82.20.254.226 (Sun, 23 Nov 2008 17:57:05 UTC)
NNTP-Posting-Date: Sun, 23 Nov 2008 17:57:05 UTC
Organization: virginmedia.com
Date: Sun, 23 Nov 2008 17:57:00 -0000
Xref: g2news2.google.com rec.radio.amateur.homebrew:1577
```

Can anyone please tell me the input and output impedances of a Seiwa Corporation Crystal Filter Model YF-90F2.5B.
Thanks. Howard.

From 7136926814614492486
X-Google-Thread: fc2a5,e51e81cc81858553
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 23 Nov 2008 12:07:04 -0600
Date: Sun, 23 Nov 2008 13:07:01 -0500
From: highlandham <rfburns@nospam.com>
User-Agent: Icedove 1.5.0.9 (X11/20061220)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR meter
References: <gg9p5k0pp0@news3.newsguy.com>
<c9fWk.393$us6.264@nwrddc01.gnilink.net>
In-Reply-To: <c9fWk.393$us6.264@nwrddc01.gnilink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <vf-dnUriavxVBrTUnZ2dnUVZ8tPinZ2d@pipex.net>
Lines: 12
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.107.29.68
X-Trace: sv3-
y6VNnoz82MUPmRXfFofkRpHqwr5Z05Ga48SdfhQG+cN0VvBrZWozfkT3ePJ7RIYK7k4EqijtR1WIdvL!
bcMZWU2M/kJos2Pn5UC6R3kWOvtWmWwSMrXkuiX8cWgZyhTMWtpx8uxhaoFBj/5oG6ffs0u/HRYs!
B9jXDDWS+LYaqQ4Zs1NkZ9rX
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:1578

> In the 78 issue there is one as you describe. The broadband torroid sensors
> are about standard in the autotuners and in some radios because they tune up
> at low power. They are small and don't add much inductance. You might even
> build it into a qrp rig and use a multi function meter scrapped out of an
> old tape recorder or a led bar graph.

================================
High intensity LEDs (for example those as used in traffic lights ,225 ea
per light) already light-up at 45 microampere and hence can be directly
used as a reflected power indicator instead of a meter.

Frank   KN6WH

From 6602916757300218266
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d

X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 23 Nov 2008 17:32:03 -0600
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
Date: Sun, 23 Nov 2008 15:32:02 -0800
Message-ID: <1lnji49vl1nulfrb9go7ker43dro840p2v@4ax.com>
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net> <e3cf8449-a500-4d01-9692-0d6159cd42d3@q9g2000yqc.googlegroups.com> <55fa82bf-331e-47b1-b0ad-e02e009eb7b0@20g2000yqt.googlegroups.com>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 35
X-Trace: sv3-Xb3AqniXNBpkCvzQf+yLFADsY5wb0Cmg9G6XWg/
ESub+5OMvsgLJzJiukGtLeohzvcqpOCJVs+6+mLb!BE4ZMJgGe2gqr1HOXSaJv1cRDzuzNUERo785lq71/
mAX9P5dcwg1ari3fs2KPh2DSIsxQiMMmGUR!MM3zBA==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:5749
rec.radio.amateur.homebrew:1282 alt.internet.wireless:3111

On Sat, 22 Nov 2008 12:08:54 -0800 (PST), JIMMIE
<JIMMIEDEE123@YAHOO.COM> wrote:

>On Nov 21, 8:47�pm, JIMMIE <jimmi...@gmail.com> wrote:
>> I recently built a Franklin antenna for 2.4Ghz.
>> I highly reccommend it. Google WiFi and franklin antenna.
>> Jimmie

>Also look up AMOS antenna. They are easy to make and work well
>Jimmie

AMOS, Franklin, Sector, et al:
<http://pe2er.nl/wifisector/>
<http://yu1aw.ba-karlsruhe.de/vhf_ant.htm>
<http://www.qsl.net/yu1aw/vhf_ant.htm>
<http://www.brest-wireless.net/gallery/AntenneAmos>
<http://www.brest-wireless.net/wiki/materiel:amos>
<http://www.brest-wireless.net/forum/viewtopic.php?id=75&p=2>

NEC2 model:
<http://802.11junk.com/jeffl/antennas/AMOS-7/>

<http://802.11junk.com/jeffl/antennas/AMOS-5/> (not optimized yet)

AMOS design:
<http://www.qsl.net/yu1aw/amos_article.pdf>

Inverted AMOS:
<http://www.qsl.net/yu1aw/invertamos.pdf>

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From 159164669731458259
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!feeder.erje.net!news.motzarella.org!motzarella.org!news.motzarella.org!
not-for-mail
From: "Wayne" <mygarbagecan@verizon.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
Date: Sun, 23 Nov 2008 16:06:15 -0800
Organization: A noiseless patient Spider
Lines: 20
Message-ID: <ggcr5n$3q1$1@news.motzarella.org>
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
<FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>
<4926c4f8$0$31141$bd467cd0@news.dslextreme.com>
<343Wk.311$QX3.169@nwrddc02.gnilink.net> <0aeWk.371$QX3.10@nwrddc02.gnilink.net>
X-Trace: news.motzarella.org U2FsdGVkX1+qAASNj2I/L/j/
JU5ybaFdzKhrcPq4vSm7EmPdB+jd8DfqWMuDDj7pH6ocPIGCantSFRr/
EMOgYM8TxTEe6r8vjBkHUzIWkjYkQrkd88CpbUyrJlQndIJnHCia6mKcW5A=
X-Complaints-To: Please send complaints to abuse@motzarella.org with full headers
NNTP-Posting-Date: Mon, 24 Nov 2008 00:06:16 +0000 (UTC)
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-Auth-Sender: U2FsdGVkX18dJHJyLQhrWBXAz1LFfIFu+e4b+ksdK/lZyBbnu9BH3w==
Cancel-Lock: sha1:PyVfGoteAG/jlwtD5KHUcV9q+LQ=
X-Priority: 3
X-MSMail-Priority: Normal
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Xref: g2news1.google.com rec.radio.amateur.antenna:5751
rec.radio.amateur.homebrew:1283 alt.internet.wireless:3112

```
"JB" <nospam@goofball.net> wrote in message
news:0aeWk.371$QX3.10@nwrddc02.gnilink.net...
>> -
>> I have need of a directional antenna for a 30 foot path within the house.
>> (the microwave oven wipes out the signal).
>>
> Yikes!  I have never seen that.  I would be concerned about leakage.
> Sometimes I have torn into things and found stupid stuff like paint over
> grounding surfaces or rust in the compartment.  There is a critical ground
> around the probe entrance.
>
>
The laptop computer is downstairs about 10 feet from the microwave, and the
wireless router is upstairs about 30 feet away with a desktop(and the path
goes through three walls and the floor.  The microwave doesn't wipe out the
laptop, but slows things down a bit.  A directional antenna would solve the
problem.  I'm not trying to increase range at all.
```

```
From -6656887501737913427
X-Google-Thread: fc2a5,fed6e1dd20d4a5c7,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-
me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe02.iad.POSTED!
7564ea0f!not-for-mail
From: "Alan Cruikshank" <ascshank@netremovescape.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Danby Mirowave Oven = lousy faraday cage
Lines: 5
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1933
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1933
Message-ID: <IrmWk.26027$VN1.10274@newsfe02.iad>
NNTP-Posting-Host: 68.148.6.45
X-Complaints-To: internet.abuse@sjrb.ca
X-Trace: newsfe02.iad 1227486056 68.148.6.45 (Mon, 24 Nov 2008 00:20:56 UTC)
NNTP-Posting-Date: Mon, 24 Nov 2008 00:20:56 UTC
Date: Sun, 23 Nov 2008 17:20:51 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:1581

I have a Motorola Cordless Phone model SD4551, and a Danby Mirowave oven
model DMW902W(-1). I tried putting the cordless handset into the closed
microwave and sucessfully paged it. Should I be worried?
```

From -6970231403374799527
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 23 Nov 2008 18:39:57 -0600
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
Date: Sun, 23 Nov 2008 16:39:57 -0800
Message-ID: <aqtji4dtdh33fj33k0ge2h8lrmsco4e2d6@4ax.com>
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net> <e3cf8449-
a500-4d01-9692-0d6159cd42d3@q9g2000yqc.googlegroups.com> <55fa82bf-331e-47b1-b0ad-
e02e009eb7b0@20g2000yqt.googlegroups.com>
<1lnji49vl1nulfrb9go7ker43dro840p2v@4ax.com>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 15
X-Trace: sv3-sDePGgyx3ZhpPNi/kwfp2VqU+m9l+ZyNJSGH4Kzl3O+h+i79SWoRZpC/
bMiHRQWp+CYcIGBhhgVtIeB!EloCnyUKdolNYrdAKUIIMSajxnDzZtiKXbyX0kT0I5Y1jKw7G0PU5+sox/
xCEDYXd5QS7ZVJQMfv!CWrTIg==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.antenna:7530
rec.radio.amateur.homebrew:1582 alt.internet.wireless:4219

On Sun, 23 Nov 2008 15:32:02 -0800, Jeff Liebermann <jeffl@cruzio.com>
wrote:

>NEC2 model:
><http://802.11junk.com/jeffl/antennas/AMOS-7/>
><http://802.11junk.com/jeffl/antennas/AMOS-5/> (not optimized yet)

Fixed. I was feeling guilty so I ran it through the optimizer in
4NEC2. I haven't built a 5 dipole AMOS yet using these dimensions.

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From -4584089530877961440

```
X-Google-Thread: fc2a5,fed6e1dd20d4a5c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!a37g2000pre.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Danby Mirowave Oven = lousy faraday cage
Date: Sun, 23 Nov 2008 16:40:29 -0800 (PST)
Organization: http://groups.google.com
Lines: 12
Message-ID: <5e6add86-6141-4d22-b497-d8e77b78221b@a37g2000pre.googlegroups.com>
References: <IrmWk.26027$VN1.10274@newsfe02.iad>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227487230 22166 127.0.0.1 (24 Nov 2008 00:40:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 24 Nov 2008 00:40:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a37g2000pre.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.4)
     Gecko/2008102920 Firefox/3.0.4,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1583

On Nov 23, 4:20=A0pm, "Alan Cruikshank" <ascsh...@netremovescape.net>
wrote:
> I have a Motorola Cordless Phone model SD4551, and a Danby Mirowave oven
> model DMW902W(-1). I tried putting the cordless handset into the closed
> microwave and sucessfully paged it. Should I be worried?

Typically the RF seal on a microwave oven is resonant, and I would not
be surprised if it leaks RF at frequencies somewhat removed from the
oven operating frequency.

Cheers,
Tom



From 2908659742871059336
X-Google-Thread: fc2a5,e51e81cc81858553
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!z28g2000prd.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR meter
Date: Sun, 23 Nov 2008 16:50:13 -0800 (PST)
Organization: http://groups.google.com
```

```
Lines: 86
Message-ID: <5c5e8867-73d9-4bd1-8b0e-4b3778f5f1c2@z28g2000prd.googlegroups.com>
References: <gg9p5k0pp0@news3.newsguy.com>
<Pine.NEB.4.64.0811230244570.12668@sdf.lonestar.org>
     <ggahgp0283j@news6.newsguy.com>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227487813 23791 127.0.0.1 (24 Nov 2008 00:50:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 24 Nov 2008 00:50:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z28g2000prd.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.4)
     Gecko/2008102920 Firefox/3.0.4,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1287

On Nov 22, 7:09=A0pm, exray <radioex...@geeemail.com> wrote:
> Stray Dog wrote:
>
> > On Sat, 22 Nov 2008, exray wrote:
>
> >> Date: Sat, 22 Nov 2008 16:13:37 -0400
> >> From: exray <radioex...@geeemail.com>
> >> Newsgroups: rec.radio.amateur.homebrew
> >> Subject: SWR meter
>
> >> I've got a cheapo CB swr meter which I thought might be suitable for
> >> some HF QRP work. =A0Problem is that it is very insensitive on the HF
> >> freqs. =A0Can't even get more than about 20% of the scale with 5 watts
> >> on 40 meters.
>
> > I've used those cheapo CB SWR meters, too, and yes at low HF they are
> > not so sensitive even with the sensitivity turne as high as it can go.
>
> > What is more important is the meter reading on "reflected" compared to
> > "forward". As long as the reflected is much lower (roughly 1/4 or less)
> > than forward, you should be OK. Most scales I've seen will have a
> > calibration such that reflected at about half the scale as forward mean=
s
> > an SWR of about three to one. One of my meters has this point at 2/3 of
> > full scale. I have always felt satisfied if I can get reflected down to
> > one tenth, or less, of forward by manipulating the antenna tuner.
>
> > If you want to be a purist, then you might also consider locating a mor=
e
> > sensitive meter, say 20-50 microamps DC and using that. Most of those
> > internal meters are 100-200 microamps DC. Or, make the modification you
> > describe below.
>
```

> >> It uses a stripline for pickup and I'm wondering if maybe I should
> >> replace that with a broadband toroid configuration. =A0Any specific
> >> recommendations? How about adding some gimmick capacitance across the
> >> stripline to increase coupling?
>
> > I'm not sure it is worth the work to try this, but I don't have a good
> > recommendation or preference to emphasize.
>
> >> TIA,
> >> Bill WX4A
>
> Well, this little dilly has several wattage ranges, calibrated at 27 MHz
> of course, as well as the 'adjust to full scale, flip to REV' for SWR
> readings. =A0I could not get anywhere near full scale with the setting.
>
> I did add some additional capacitance off of the stripline and am now
> within range of the thing. =A0It took about 10pf, a gimmick wasn't enough=
.
> =A0 Celebrating that success I reset the lowest ranges of the wattmeter (=
5
> and 50 watts) to read accurately at 7 MHz. =A0I have no fantasies about
> the linearity of the circuit now nor any fantasy that the other ham
> bands will read anywhere even close wattage-wise but it seems just the
> ticket for 40 meters.
>
> If I get enthusiastic I might try a ferrite transformer and just see how
> much flatter that might be across the bands.
>
> 73,
> Bill

Operation of an SWR meter depends on monitoring the line current and line voltage in the proper ratio. If you simply add capacitance to increase the pickoff of voltage, you'll screw up the ratio and it won't come close to reading SWR correctly. If, on the other hand, you make a directional coupler with two identical toroid transformers, you should be able to get decent directionality as well as good flatness across the whole HF range. A coupled-line hybrid (directional coupler) has maximum response where the coupled section is 1/4 wave long (or 3/4, or other odd quarter), and the response drops off as you go to lower frequencies. Where the line is short compared with 1/4 wave, the response in volts is very nearly linear with frequency, so at 2.7MHz, your 27MHz coupler will most likely have about 1/10 the voltage response (1/100 the power response) as at 27MHz. A transformer coupler can be flat within a dB over more than a 10:1 frequency range, but it is important to use the right permeability ferrite in the design. You do not want too much inductance--imperfect coupling between primary and secondary causes a rolloff at high frequencies--higher inductance means higher leakage inductance for given coupling, and that in turn means rolloff at lower frequency.

Cheers,
Tom

```
From 4503933949426687836
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!z27g2000prd.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR meter
Date: Sun, 23 Nov 2008 16:56:42 -0800 (PST)
Organization: http://groups.google.com
Lines: 28
Message-ID: <d8640c6a-9917-45ca-8f8e-80eaefa49b92@z27g2000prd.googlegroups.com>
References: <gg9p5k0pp0@news3.newsguy.com>
<c9fWk.393$us6.264@nwrddc01.gnilink.net>
     <vf-dnUriavxVBrTUnZ2dnUVZ8tPinZ2d@pipex.net>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227488203 24819 127.0.0.1 (24 Nov 2008 00:56:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 24 Nov 2008 00:56:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z27g2000prd.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.4)
     Gecko/2008102920 Firefox/3.0.4,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1288

On Nov 23, 10:07=A0am, highlandham <rfbu...@nospam.com> wrote:
> > In the 78 issue there is one as you describe. =A0The broadband torroid =
sensors
> > are about standard in the autotuners and in some radios because they tu=
ne up
> > at low power. =A0They are small and don't add much inductance. =A0You m=
ight even
> > build it into a qrp rig and use a multi function meter scrapped out of =
an
> > old tape recorder or a led bar graph.
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D
> High intensity LEDs (for example those as used in traffic lights ,225 ea
> per light) already light-up at 45 microampere and hence can be directly
> used as a reflected power indicator instead of a meter.
>
> Frank =A0 KN6WH

Cool idea, Frank!  Should work fine at low frequencies, but beware
that the junction capacitance of high power LEDs can be pretty high so
they likely wouldn't be great at higher frequencies.  I just measured
```

some low power ones a few days ago at about 20pF, which is about 265
ohms reactance at 30MHz, not bad at all, but wouldn't be so good at
450MHz.

Cheers,
Tom

```
From -7220968067694027472
X-Google-Thread: fc2a5,ffb4995423606c03
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!r37g2000prr.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Doubling
Date: Sun, 23 Nov 2008 17:22:54 -0800 (PST)
Organization: http://groups.google.com
Lines: 85
Message-ID: <b295f900-2dde-430b-9989-3770daef108e@r37g2000prr.googlegroups.com>
References: <gg7qs402stp@news1.newsguy.com> <3QLVk.9206$V71.1057@newsfe10.iad>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227489775 29161 127.0.0.1 (24 Nov 2008 01:22:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 24 Nov 2008 01:22:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r37g2000prr.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.4)
     Gecko/2008102920 Firefox/3.0.4,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1586
```

```
On Nov 21, 8:24=A0pm, "NoSPAM" <unkn...@nospam.org> wrote:
> "exray" <radioex...@geeemail.com> wrote in message
>
> news:gg7qs402stp@news1.newsguy.com...
>
> > =A0In terms of old transmitters from the 20s/30s...In a crystal oscilla=
tor I
> > understand the concept of setting the oscillator output tank to favor t=
he
> > harmonic from the crystal. =A0(Stop me if I'm wrong already...)
>
> > =A0But in a doubling amplifier stage am I counting on having enough har=
monic
> > content at the input or am I creating the harmonic with the non-lineari=
ty
> > of the amplifier?
```

>
> > =A0TIA
> > =A0-Bill =A0WX4A
>
> Hi Bill.
>
> Remember that single ended frequency multiplier stages are usually operat=
ed
> in Class-C where the nonlinear operation of the stage produces the
> harmonics. =A0In a Class-C stage, the grid (of the tube since we are talk=
ing
> about vintage transmitters) is biased such that the plate current only fl=
ows
> in short pulses. =A0The narrower the pulse width, the greater the harmoni=
c
> generation of the stage. =A0If you look in the old RCA Transmitting Tube
> Manual, there is a design procedure where the "conduction angle" of the t=
ube
> is chosen for proper harmonic generation.
>
> Frequency doubling is unique in that two Class-B stages may be used in a
> push-push arrangement. =A0Here the grids are driven in push-pull while th=
e
> plates are connected together in parallel. =A0The resulting waveform will
> essentially be the equivalent of full-wave rectification of the input
> signal. =A0Without going into Fourier series, the resultant waveform only
> contains even harmonics of the input signal while the fundamental driving
> frequency is cancelled out.
>
> Fortunately I was already a ham operator when my high school math class
> taught Fourier series *. =A0I immediately saw the practical value of this
> mathematical concept and it made good sense to me. =A0Your question is a =
good
> one and reading some of the tutorials on Fourier series (do a Google sear=
ch)
> will be very useful to your understanding of harmonic generation and
> intermodulation distortion. =A0I hope that my simple explanation will sta=
rt
> you in your own exploration.
>
> =A0 =A0 73, =A0Barry L. Ornitz =A0 WA4VZQ
>
> * More years ago that I care to admit! =A0:-)

Wow, there's a name I haven't seen for a while. I must be frequenting
the wrong groups. I was just thinking about you a couple days ago.
Hi Barry!

More about what Barry wrote: in the limit as the conduction angle
goes to zero and you generate a very narrow pulse of current, the
harmonics end up all the same amplitude. That's for an impulse of
zero width. Unfortunately, given limited amplitude of the current in
that very narrow pulse, the total energy becomes small. As you widen

the pulse, you'll see that the "comb" of harmonics no longer has constant amplitude, but the amplitudes as you go up the "comb" (higher in frequency)drop, and there will be a frequency at which they go to zero, and then increase again (and go to zero again, and increase again). The magnitudes follow a sin(x)/x shape, for perfectly rectangular pulses. This becomes interesting for a the design of frequency multiplier stages: if for example you want to get x4 out of a stage you better NOT run it at a conduction angle that results in nulling of the fourth harmonic! I think I was bit by this a time or two in my youth when I didn't understand this. (I'm working on something right now where I want that comb of harmonics to be all very nearly equal amplitude up to about 100MHz, and that tells me how narrow the pulse must be.)

Cheers,
Tom

```
From -8835011079457843025
X-Google-Thread: fc2a5,fed6e1dd20d4a5c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!
tmp-post01.iad!news.highwinds-media.com!not-for-mail
Date: Sun, 23 Nov 2008 20:56:04 -0500
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Danby Mirowave Oven = lousy faraday cage
References: <IrmWk.26027$VN1.10274@newsfe02.iad>
In-Reply-To: <IrmWk.26027$VN1.10274@newsfe02.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 22
Message-ID: <492a09a4$0$17057$9a6e19ea@unlimited.newshosting.com>
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
NNTP-Posting-Host: 70.121.205.178
X-Complaints-To: abuse@newshosting.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:1587
```

Alan Cruikshank wrote:

> I have a Motorola Cordless Phone model SD4551, and a Danby Mirowave oven
> model DMW902W(-1). I tried putting the cordless handset into the closed
> microwave and sucessfully paged it. Should I be worried?
>
>

Next time you try this, put the oven in defrost mode for about 30 seconds. The "problem" should resolve itself. };^}

Your Motorola phone is 2.4 GHz model the results are interesting, but
not conclusive since the seal is probably only effective for some 10's
of dB's and your phone system has an effective path loss of perhaps 100 dB.

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

```
From -1568725823140469938
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!w35g2000yqm.googlegroups.com!not-for-
mail
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
Date: Sun, 23 Nov 2008 19:26:58 -0800 (PST)
Organization: http://groups.google.com
Lines: 27
Message-ID: <1ca64c73-7e41-4dd7-9149-f2f433df4422@w35g2000yqm.googlegroups.com>
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
     <e3cf8449-a500-4d01-9692-0d6159cd42d3@q9g2000yqc.googlegroups.com>
     <55fa82bf-331e-47b1-b0ad-e02e009eb7b0@20g2000yqt.googlegroups.com>
     <1lnji49vl1nulfrb9go7ker43dro840p2v@4ax.com>
<aqtji4dtdh33fj33k0ge2h8lrmsco4e2d6@4ax.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227497218 16411 127.0.0.1 (24 Nov 2008 03:26:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 24 Nov 2008 03:26:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w35g2000yqm.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.antenna:5758
rec.radio.amateur.homebrew:1291 alt.internet.wireless:3118
```

On Nov 23, 7:39=A0pm, Jeff Liebermann <je...@cruzio.com> wrote:
> On Sun, 23 Nov 2008 15:32:02 -0800, Jeff Liebermann <je...@cruzio.com>

```
> wrote:
>
> >NEC2 model:
> ><http://802.11junk.com/jeffl/antennas/AMOS-7/>
> ><http://802.11junk.com/jeffl/antennas/AMOS-5/> =A0(not optimized yet)
>
> Fixed. =A0I was feeling guilty so I ran it through the optimizer in
> 4NEC2. =A0I haven't built a 5 dipole AMOS yet using these dimensions.
>
> --
> Jeff Liebermann =A0 =A0 je...@cruzio.com
> 150 Felker St #D =A0 =A0http://www.LearnByDestroying.com
> Santa Cruz CA 95060http://802.11junk.com
> Skype: JeffLiebermann =A0 =A0 AE6KS =A0 =A0831-336-2558
```

I put one up I use with a WiFi repeater and I can see dozens of
wirless routers in my neighborhood. The antena i mounted at about
20ft on my chimney. There are about 8 or 9 with no security. If I so
chose I would never have to pay for internet service. There is another
subdivsion behind my house I havent even looked at that one yet.
Strange thing I know 3 of the people who have the open systems and
they are farly savy about these things. I wonder if they are leaving
them open on purpose.

Jimmie

```
From 6801747180309560176
X-Google-Thread: fc2a5,e51e81cc81858553
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!41g2000yqf.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR meter
Date: Sun, 23 Nov 2008 20:03:05 -0800 (PST)
Organization: http://groups.google.com
Lines: 29
Message-ID: <ada94159-5b79-4635-8b3f-caeccc0ac9d3@41g2000yqf.googlegroups.com>
References: <gg9p5k0pp0@news3.newsguy.com>
<c9fWk.393$us6.264@nwrddc01.gnilink.net>
     <vf-dnUriavxVBrTUnZ2dnUVZ8tPinZ2d@pipex.net>
<d8640c6a-9917-45ca-8f8e-80eaefa49b92@z27g2000prd.googlegroups.com>
NNTP-Posting-Host: 76.226.127.85
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1227499386 7709 127.0.0.1 (24 Nov 2008 04:03:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 24 Nov 2008 04:03:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 41g2000yqf.googlegroups.com; posting-host=76.226.127.85;
```

```
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.18)
     Gecko/20081029 Firefox/2.0.0.18,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1292

On Nov 23, 7:56 pm, K7ITM <k7...@msn.com> wrote:
> On Nov 23, 10:07 am, highlandham <rfbu...@nospam.com> wrote:
>
> > > In the 78 issue there is one as you describe.  The broadband torroid sensors
> > > are about standard in the autotuners and in some radios because they tune up
> > > at low power.  They are small and don't add much inductance.  You might even
> > > build it into a qrp rig and use a multi function meter scrapped out of an
> > > old tape recorder or a led bar graph.
>
> > ================================
> > High intensity LEDs (for example those as used in traffic lights ,225 ea
> > per light) already light-up at 45 microampere and hence can be directly
> > used as a reflected power indicator instead of a meter.
>
> > Frank   KN6WH
>
> Cool idea, Frank!  Should work fine at low frequencies, but beware
> that the junction capacitance of high power LEDs can be pretty high so
> they likely wouldn't be great at higher frequencies.  I just measured
> some low power ones a few days ago at about 20pF, which is about 265
> ohms reactance at 30MHz, not bad at all, but wouldn't be so good at
> 450MHz.
>
> Cheers,
> Tom

I'm a looking at my tentec 1202 swr kit I a built. They usin' dual
stacked iron toroids just large enough ID to pass an inch long  piece
of RG174 coax and 10 turns of 26 AWG enamel wire.


From -1708462632858821301
X-Google-Thread: fc2a5,fed6e1dd20d4a5c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!r15g2000prh.googlegroups.com!not-for-
mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Danby Mirowave Oven = lousy faraday cage
Date: Sun, 23 Nov 2008 23:42:06 -0800 (PST)
Organization: http://groups.google.com
Lines: 37
Message-ID: <49fb9437-ba47-4099-8138-4357f4bfca08@r15g2000prh.googlegroups.com>
References: <IrmWk.26027$VN1.10274@newsfe02.iad>
<492a09a4$0$17057$9a6e19ea@unlimited.newshosting.com>
NNTP-Posting-Host: 125.237.84.99
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227512526 12688 127.0.0.1 (24 Nov 2008 07:42:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 24 Nov 2008 07:42:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r15g2000prh.googlegroups.com; posting-host=125.237.84.99;
     posting-account=TfKoOgkAAABQzW2yM8tZrYe8S04m-wqP
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     GTB5; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1590

I would think 10mW-ish (+10dBm) leakage around the seal of an oven
would be reasonably safe, this is down from 1kW (+60dBm) output from
the magnetron.

50dB attenuation should have a marked impact on range for a cordless
phone.

Still all rather inconclusive, but maybe time to buy a leakage
detector just to be safe...

-Mark


On Nov 24, 2:56=A0pm, RFI-EMI-GUY <Rhyol...@NETTALLY.COM> wrote:
> Alan Cruikshank wrote:
> > I have a Motorola Cordless Phone model SD4551, and a Danby Mirowave ove=
n
> > model DMW902W(-1). I tried putting the cordless handset into the closed
> > microwave and sucessfully paged it. Should I be worried?
>
> Next time you try this, put the oven in defrost mode for about 30
> seconds. The "problem" should resolve itself. };^}
>
> Your Motorola phone is 2.4 GHz model the results are interesting, but
> not conclusive since the seal is probably only effective for some 10's
> of dB's and your phone system has an effective path loss of perhaps 100 d=
B.
>
> --
> Joe Leikhim K4SAT
> "The RFI-EMI-GUY"=A9
>
> "Treason doth never prosper: what's the reason?
> For if it prosper, none dare call it treason."
>
> "Follow The Money" =A0;-P
```

```
From 7315051521147567679
X-Google-Thread: fc2a5,e51e81cc81858553
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news7
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR meter
Date: Mon, 24 Nov 2008 07:00:50 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 11
Message-ID: <gge1h401v86@news7.newsguy.com>
References: <gg9p5k0pp0@news3.newsguy.com>
<c9fWk.393$us6.264@nwrddc01.gnilink.net>  <vf-
dnUriavxVBrTUnZ2dnUVZ8tPinZ2d@pipex.net>
<d8640c6a-9917-45ca-8f8e-80eaefa49b92@z27g2000prd.googlegroups.com>
<ada94159-5b79-4635-8b3f-caeccc0ac9d3@41g2000yqf.googlegroups.com>
NNTP-Posting-Host: p8f7156a243908071faebdea9c8fc5a1d1e7ea6e1cf4c484e.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <ada94159-5b79-4635-8b3f-caeccc0ac9d3@41g2000yqf.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1294

raypsi wrote:

>
> I'm a looking at my tentec 1202 swr kit I a built. They usin' dual
> stacked iron toroids just large enough ID to pass an inch long  piece
> of RG174 coax and 10 turns of 26 AWG enamel wire.

Thanks everybody, that seems to be the way to go.

73,
Bill - WX4A


From 2342503270470222919
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups:
```

```
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
<FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>
<4926c4f8$0$31141$bd467cd0@news.dslextreme.com>
<343Wk.311$QX3.169@nwrddc02.gnilink.net> <0aeWk.371$QX3.10@nwrddc02.gnilink.net>
<ggcr5n$3q1$1@news.motzarella.org>
Subject: Re: WiFi antenna recommendations?
Lines: 54
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <nkAWk.557$us6.465@nwrddc01.gnilink.net>
Date: Mon, 24 Nov 2008 16:08:51 GMT
NNTP-Posting-Host: 71.110.224.203
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1227542931 71.110.224.203 (Mon, 24 Nov 2008 11:08:51
EST)
NNTP-Posting-Date: Mon, 24 Nov 2008 11:08:51 EST
Xref: g2news2.google.com rec.radio.amateur.antenna:7547
rec.radio.amateur.homebrew:1592 alt.internet.wireless:4228


"Wayne" <mygarbagecan@verizon.net> wrote in message
news:ggcr5n$3q1$1@news.motzarella.org...
>
> "JB" <nospam@goofball.net> wrote in message
> news:0aeWk.371$QX3.10@nwrddc02.gnilink.net...
> >> -
> >> I have need of a directional antenna for a 30 foot path within the
house.
> >> (the microwave oven wipes out the signal).
> >>
> > Yikes!  I have never seen that.  I would be concerned about leakage.
> > Sometimes I have torn into things and found stupid stuff like paint over
> > grounding surfaces or rust in the compartment.  There is a critical
ground
> > around the probe entrance.
> >
> >
> The laptop computer is downstairs about 10 feet from the microwave, and
the
> wireless router is upstairs about 30 feet away with a desktop(and the path
> goes through three walls and the floor.  The microwave doesn't wipe out
the
> laptop, but slows things down a bit.  A directional antenna would solve
the
> problem.  I'm not trying to increase range at all.
>
```

It would certainly be best to remove the interference. If you have 4 bars now, 5 bars might not do away with the problem. Moving the microwave just 5' more might be enough. You may have to bite the bullet and put in some wiring to move the router.

Some of these guys are prone to take a practical problem like yours and turn it into a full-blown engineering problem or a swap meet for their break through technology or even an opportunity to throw mud. One engineering problem we faced was how to contain UHF security and housekeeping repeaters to a high rise building and it's underground structure. The final result was 99% coverage in the building and the parking structure, but when security went off the property, the radios went away. Visits to other buildings showed no coverage there either. We had to do that for both security and so we could get co-ordinated for licensing in an urban area. But it was a multi-million dollar system. This is free.

Placing one of those in an upstairs room is an invitation to the neighbors. I run a combination of wired and wireless. Wired to the desktop and to a port replicator for the laptop and wireless to a print server with several printers in a shop area, and the AP is off unless I want to roam around or do print jobs. There are times I have printed from the laptop, wireless in the shop to baby-sit print jobs, but it keeps the office clear and quiet. One of these days I will have to run a cat5 out to the shop. It is simply faster and more secure. The end result is my router, 1 foot off the floor with the power set to 50% to do all I need to do.

From 8730960467044170128
X-Google-Thread: fc2a5,12dee750b351a0ef,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: FINNISH,ASCII
Subject: testi-testi
From: Sakari Meyer <sakari@beloved.com>
Date: Mon, 24 Nov 2008 10:26:24 -0600
Message-ID: <3drhk.189$Rh.145@ulogisk.com>
References: <487516c3$0$15000$8f74b9c5@news.maxinetti.fi>
Lines: 96
NNTP-Posting-Host: linode.mirt.net
Path: g2news1.google.com!news1.google.com!news.glorb.com!nlpi057.nbdc.sbc.com!prodigy.net!news-out.superfeed.net!sp26iad.superfeed.net!news-in1.superfeed.net!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
X-Trace: news-in1.superfeed.net 1227543984 linode.mirt.net (24 Nov 2008 10:26:24 -0600)
Followup-To: sfnet.harrastus.autot.maahantuonti,sfnet.harrastus.tanssi,sfnet.tori.myydaan.muut,rec.radio.amateur.homebrew
MIME-Version: 1.0
Content-Type: text/plain;
Content-Transfer-Encoding: 8bit
Xref: g2news1.google.com rec.radio.amateur.homebrew:1296

Olen jopa itse h�mm�stynyt siit� peittelem�tt�m�st� ydinalan panikoinnista, jota jo parhaillaan p��llemme kaatuvat ydinekotuhot t��ll� netiss� aiheuttaa. Oli tosiaan t�ys yll�ri miten SELKE�STI ydinlobbaajat lopulta alkoivat oivaltaa ydinalan syyksi nykymaailmamme jyr��viin tuhoihin.

Mehil�istuhon massiivisuus n�ytt�� olevan kulminaatiopiste. Eli viel� viime vuona t�nne oli aika harvat kirjoittamassa, ett� ydinala tulee jatkossa tappamaan kaiki maailmamme mehil�ispopulaatiot. Toki silloin asiasta kirjoittelin. Mutta tajuavia oli prosenteissa. Nyt kun p�iv�st� toiseen k�y JUURI kuten olen esitt�nyt on jotain aniharvaa ydinpoliisia lukuunottamatta alkanut faktat upota. Jopa mehil�iskasvattajaliiton sain viimein tajuamaan, ett� ydintaposta on kyse. Aiemat ydinalan disinfot vaikenivat muutamissa p�iviss�. Hienoa, ett� reaali alkaa kinostamaan ja ly�m��n massoina l�pi viime vuona viel� totaalivaikenevaan lehdist��mme my�s. Ilmeisesti 90% mehil�iskato ja sit� seuraava 1/3 osan ruokakato alkaa n�ky� niin kiistatta. Ilmeisesti ydinhallintomme on menett�m�ss� peli� koko laajuudella luonnon tuhoamisensa tiell�. Koska TABU:ja on laajasti nyt lis��:

A/Maailmanlaajuinen ilmoitettu niin sammakkoel�inten, kuin matelijoiden kuoleminen niinik�� maailmanlaajuisesti ydinp��st�jen tritiumsadelammikkoihin on kylm�sti m��r�tty vaiettavaksi 100%! Aika h�rski aihe, kuin sent��n kansainv�lisesti todettiin faktaksi toki!

B/Maailman kaikki tunnetut havumets�t tulevat kuolemaan muutamissa l�hivuosissa. Japanista, Portugalista ja Siperiasta v��j��m�tt� 90% metsist�mme l�hivuosina tappavista millisist� m�ntyankeroisista on tehty l�yd�ksi� per�ti 40kertaa. Vain hetki en�� ja ydinteollisuuden s��hk�lle ei jatkossa ole lainkaan puuta! Tarkoin on vaiettu, ett� Ven�j�n puukauppa takkuaa sik�l�isist� megamets�tuhol�hteist� jo. Aihe on SELKE�STI 60v k�ytt�harhoilleen suunnitelluille ydinlaitoksillemme suoraa kuolemaa! Mega TABU! Ilman muuta.

C/Kaspian kampamaneetit ajoivat Merentutkimuslaitoksen meri�mme kartoittamasta h�rskimm�n p��lle ei edes kalastajia ulkomerillemme sallita raportoimaan maneetti-invaasioita. Kyseess� kun on se keskeisin kulminaatiopiste, jonka TVO:n ydinlauhdekumpuamiset tuottaa megatuhona. Raportointiin pestataan nyt silkkana sikailuna amat��rijoukkoa muka tutkimaan levi� vaan. Ydinhallintomme t�rkyilee aiheessa niin, ettei mit��n rajaa. Kampamaneettien tiedet��n jo kautta maailman tukkineeen voimaloiden massiivivesikanavistot kuin korkki pullot. Ruotsissa tilanne on jo sellainen, ett� ydinvoimaloissaan on 80% pysyv�t varotehonalenemat.
Pian -50%. Tai kuten Ven�j�ll� merilauhteesta ydinalalla on PAKKO luopua, koskei meren valtaisat jopa 7 800el�int�/m2 kokoiset tulevat kampamaneettikannat takaa en�� ikin� asiallista j��hdytett� ydinvoimaloille.
Mega-TABU
aiheena my�s.

D/ Niin t�m� mehil�iskato johtuu tunnetusti ydinionisaation aiheuttamasta ionosf��rimuutoksen suunnistusharhauttamisesta. Joka siis eksytt�� muuten terveet mehil�iset pois muutoksillaan pois tutuilta pes�ns� paluureiteilt�. T�st� tabusta alkaa asiis puhti olemaan ydinalaltamme poissa, kun KAIKKI huomaa miten kato etenee. Aiemmin tekaistut virusvalheet eiv�t uppoa kansaan. Koska jopa mehil�iskasvattajat huomaavat, ett� suunistuksen ongelma ja ydinvoimalan l�heisyys ratkaisee suoraan mehil�isten h�vikin! Siksi massoittain TVO:n l�hist�lt� pelastetaan mehil�ispesi� turvaan ydinsaasteilta It�-Suomeen. Jotkut yksinkertaiset ydinlobbarit erehtyy luulemaan n�in hetkeksi kasvaneista paikallismehil�ispopuloista, ett� kaiki ik��nkuin olisi kohdallaan, kuten enneen. Ei toki!(

E/ Ruotsissa on kaikien aikojen rajuimmat mets�palot 02.06.2008. Koko Etel�-Suomessa mets�palovaroitus. Tippaa ei vett� olla tuttuun tyyliin saatu oikeastaan sitten lumien. Kuka oikeasti yll�ttyi, ett� jo viime vuona viimein jopa EU:ssa my�nnetty -40% ydinaavikoituminen etenee varmasti tappaen yh� hurjemmin. Kuka en�� edes muistaa, miten mm. Portugali paloi kokonaan superkuivuuksiinsa. Tilanne jatkuu ja pahenee. Ranskassa my�s jo viime kes�n� mets�� kuivettui enemm�n kuin s�teilyll� pilattu ydinaavikkomaa kasvoi. T�m� vuosi on taas edellist� pahempi. Viel� koettaa toki Ilmatieteenlaitos ved�tt�� hiilidioksidilis��ntymisen synnyt�mine +30% sadantakasvuharhoineen. Pelkk� vilkaisu jo ennen varsinaista kes�� kuolevaan ja kuivettuvaan luontoomme kertoo disinfon ydinalan panikoinniksi. Virannomaistemme luotettavuus l�henee syyst� nollaa. Ydinala tappaa ja takuuvarmasti niin kauan, kunnest tuhoaa v�hint��n itsens�, kenties s�teilyp��st�ineen koko ihmiselon mahdollisuudet my�s. Ja mik� oleelista ydinalamme TARKOIN tiet�� mit� ydinkauhuja saamme jatkoon n�hd� s�teilyjen kirist�ess� el�misen mahdollisuuksia hetki hetki, hetkelt� kaikkialta ymp�rilt�mme!((((

PS. Kuten olemme huomanneet lehtien sivut yht �kki� t�yttyv�t virannomaisuhkailuista siit�, ettei nettiin saa jatkossa en�� kirjoittaa edes n�ist� mit� ymp�rill�mme tapahtuu? Tajuaako kansamme miksi? Koska ydinhallintomme tiet��, ett� jatkossa kyyti k�y niin hirve�ksi tulevine ydinp��st�jen punasadekausineen, ettei siit� saa antaa edes silminn�kij�lausuntoja en��! Tajjuatteko, homma on t�ysin poissa ydinalamme hallinnasta. Einsteinin varotukset alkavat saamaan lihaa rajusti luittensa ymp�rille. Yksi on tulevassa varma ydinala vetelee syyllisin� viimeisi��n!

From -2316982804465062377
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 24 Nov 2008 11:46:05 -0600
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
Date: Mon, 24 Nov 2008 09:46:02 -0800
Message-ID: <rkoli4dv240dua688aajl5eqmf27sdlphj@4ax.com>
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net> <e3cf8449-

```
a500-4d01-9692-0d6159cd42d3@q9g2000yqc.googlegroups.com>  <55fa82bf-331e-47b1-
b0ad-e02e009eb7b0@20g2000yqt.googlegroups.com>
<1lnji49vl1nulfrb9go7ker43dro840p2v@4ax.com>
<aqtji4dtdh33fj33k0ge2h8lrmsco4e2d6@4ax.com> <1ca64c73-7e41-4dd7-9149-
f2f433df4422@w35g2000yqm.googlegroups.com>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 56
X-Trace: sv3-BQ6nV0xmX1dHOZkiA/fp5BzHmOoyALXxH3LQU/3PBL/
9EYJtoRecKlIl7uG2Gv30cnbregU5DT8Dqk5!
FmGx0Q+RyH200TBuJT9Okn3YTzXIeRh5pTkWc3rmx7FzGuGrMw/le1k9aJWPXWwrrkmJoPSlTN5t!
dMWHqA==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:5773
rec.radio.amateur.homebrew:1297 alt.internet.wireless:3124

On Sun, 23 Nov 2008 19:26:58 -0800 (PST), JIMMIE
<JIMMIEDEE123@YAHOO.COM> wrote:

>On Nov 23, 7:39�pm, Jeff Liebermann <je...@cruzio.com> wrote:
>> On Sun, 23 Nov 2008 15:32:02 -0800, Jeff Liebermann <je...@cruzio.com>
>> wrote:
>>
>> >NEC2 model:
>> ><http://802.11junk.com/jeffl/antennas/AMOS-7/>
>> ><http://802.11junk.com/jeffl/antennas/AMOS-5/> �(not optimized yet)
>>
>> Fixed. �I was feeling guilty so I ran it through the optimizer in
>> 4NEC2. �I haven't built a 5 dipole AMOS yet using these dimensions.

>I put one up I use with a WiFi repeater and I can see dozens of
>wirless routers in my neighborhood.  The antena i mounted at about
>20ft on my chimney. There are about 8 or 9 with no security. If I so
>chose I would never have to pay for internet service. There is another
>subdivsion behind my house I havent even looked at that one yet.

If stealing internet service from the neighbors is your intended
purpose, you selected the wrong type of antenna.  A sector antenna may
be a great idea for running a WISP or central access point, where
you're never sure of the direction the client radios are coming from.
It's a bad idea for use at the client end.  The idea is to pickup as
little interference as possible.  You're reception of 9 stations is a
problem as any one of these could provide sufficient interference to
make your pirated internet connection useless.   I suggest you look
into a panel or dish antenna, which will provide a much narrower
horizontal beamwidth, with the added bonus of more antenna gain.
```

>Strange thing I know 3 of the people who have the open systems and
>they are farly savy about these things. I wonder if they are leaving
>them open on purpose.

I was running an open access point at my office for a while. However, I was also monitoring connection attempts and traffic. I figured that nobody would bother. Wrong. I had some bum in a pickup truck and camper, connect regularly to make VoIP phone calls. I had no problem with him using the system and we eventually came to an arrangement. However, he stupidly told all his friends, who immediately abused the system, so I locked it up with a WPA password.

In another incident, one of my customers was in a hotel that wanted real money to use their Wi-Fi. (This was about 6 years ago, before the widespread proliferation of free Wi-Fi service). So, he connected to a random open access point. The security on his laptop was more than a little lacking (writable shared folders), resulting in the installation of multiple trojan horses, spam bots, etc. I suspect the open access point was an intentional trap set for hotel visitors.

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From 4194992053392968278
X-Google-Thread: fc2a5,b2ec69f4d35c5dd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 24 Nov 2008 11:52:23 -0600
Date: Mon, 24 Nov 2008 09:52:40 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question about unwanted VFO pulling during transmit
References: <8a21c62a-4311-4e3b-a0fc-01808006b7df@u29g2000pro.googlegroups.com>
     <Xns9B5A6973E4A342MDWN@194.177.96.78> <c6d9a871-5210-4248-a5bc-eb7e2c323a58@w1g2000prk.googlegroups.com>   <gfv4fp01d8l@news5.newsguy.com>
<94ddf96b-a61d-4e16-b5c2-c4dd1d72e488@v22g2000pro.googlegroups.com>
<3a55ebf2-9fef-4c37-8c8c-df642d1c245a@u29g2000pro.googlegroups.com>
In-Reply-To: <3a55ebf2-9fef-4c37-8c8c-df642d1c245a@u29g2000pro.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <dpydnUZ5G_dKdLfUnZ2dnUVZ_uudnZ2d@web-ster.com>
Lines: 64
X-Usenet-Provider: http://www.giganews.com

```
X-Trace:
sv3-1nVZ8BYS94YuIEwJCopF+iwYZUPyXgqTWU0JqOvWuQWIh5FSNLWWrW9xtHAftfq7ZAvq4Gigrm+Gke
T!BsOl5Kd/rxHNK+scuWDeshxenkgCDordHvFqA52JlzevxnLCw3omE339zKUTPOy75USXY0dsc9oK!
AMHryfm9MhGg+/g=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:1595

Tim Shoppa wrote:
> On Nov 18, 5:21 pm, Kendal Goodson <kend...@yahoo.com> wrote:
>> On Nov 18, 1:19 pm, exray <radioex...@geeemail.com> wrote:
>>
>>
>>
>>
>>
>>> Kendal Goodson wrote:
>>>> Thanks Grumpy.  I'll check supply voltage next. It's not a thermal
>>>> problem.  The output is nice and stable until key down when it pulls.
>>>> It's also frequency stable during keydown, just on a different
>>>> frequency.  The oscillator isn't keyed, so I don't think it's an
>>>> oscillator startup issue.
>>>> 73,
>>>> Kenn
>>> I'm missing something.  You said that the 'driver' etc were disconnected
>>> and the osc is not being keyed.
>>> So what is actually being keyed?
>>> -Bill
>> I see I've done a poor job of writing up the problem statement.  The
>> VFO at ~3.050 feeds a SA612 whose internal oscillator runs at 4.0 Mhz
>> and mixes the two to come up with ~7.050Mhz.  Output from the mixer
>> goes through a tuned bandpass filter to a class A driver and then to a
>> class C final.  When I found I had a problem with the VFO staying on
>> frequency during transmit, I disconnected the driver stage and
>> replaced it with a resistor termination.  The problem stayed
>> consistent.  The SA612 and the buffer/driver stage are both keyed.
>
> Ahah! The SA612's input impedance will change by a lot when it is
> keyed up vs keyed down.
>
> Two ways to get around this:
>
> 1. Additional buffering between the VFO and SA612
>
> 2. Swamp the impedance change from power up to power down by adding
> some parallel resistance. Should be DC-isolated from the SA612's input
> because otherwise you will upset the balance.
>
> Solution #1 requires some additional parts and current drain. I really
> like the two-transistor W7EL buffer.
>
```

> Solution #2 is just a capacitor and a resistor, but also assumes that
> the VFO has enough drive that it won't object to being swamped.
>
> Tim N3QE

That sounds like it's the problem, and those are the solutions I'd suggest -- Tim just got there first.

Do check the supply voltages to the VFO while you're at it, though -- changing VFO (and buffer stage) supply voltages will also pull the VFO frequency.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

---

From 2412262765273121393
X-Google-Thread: 108122,522ed452ea8fa9f8,start
X-Google-Thread: fc2a5,522ed452ea8fa9f8,start
X-Google-Thread: 107ada,522ed452ea8fa9f8,start
X-Google-Thread: 110c99,522ed452ea8fa9f8,start
X-Google-Thread: 111320,522ed452ea8fa9f8,start
X-Google-Attributes: gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v42g2000yqv.googlegroups.com!not-for-mail
From: tyreemand@gmail.com
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.running,rec.scouting.issues
Subject: Woman in Burlington Wisconsin
Date: Mon, 24 Nov 2008 10:01:06 -0800 (PST)
Organization: http://groups.google.com
Lines: 1
Message-ID: <66cf4719-e91c-464a-928c-8ddb6ac7c6c2@v42g2000yqv.googlegroups.com>
NNTP-Posting-Host: 92.112.222.188
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1227549667 24383 127.0.0.1 (24 Nov 2008 18:01:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 24 Nov 2008 18:01:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v42g2000yqv.googlegroups.com; posting-host=92.112.222.188;
     posting-account=8N4mVgoAAABmLLkJQvSeZsuS_r9oM6nG

```
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:1091
rec.radio.amateur.homebrew:1596 rec.radio.amateur.misc:1841 rec.running:6892
rec.scouting.issues:1804

http://vorsex.blogbugs.org/



From 1931033254483711355
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 24 Nov 2008 12:44:28 -0600
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
Date: Mon, 24 Nov 2008 10:44:27 -0800
Message-ID: <s8sli4hk9nv2elc4e6o8ifka56a5rphsf1@4ax.com>
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>  <e3cf8449-
a500-4d01-9692-0d6159cd42d3@q9g2000yqc.googlegroups.com>  <55fa82bf-331e-47b1-
b0ad-e02e009eb7b0@20g2000yqt.googlegroups.com>
<1lnji49vl1nulfrb9go7ker43dro840p2v@4ax.com>
<aqtji4dtdh33fj33k0ge2h8lrmsco4e2d6@4ax.com> <1ca64c73-7e41-4dd7-9149-
f2f433df4422@w35g2000yqm.googlegroups.com>
<rkoli4dv240dua688aajl5eqmf27sdlphj@4ax.com> <ggeq9l$lak$1@news.albasani.net>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 65
X-Trace: sv3-
QZFAt28Y2owMBnJ96anY3PKFLvOC49DqACrkh28SUPHJBKp4qApZDcKYfml76t5Zifl25fUsg9PzX8G!
J88dbr1k8Nv6N3WEepD/3+9Ugm+mrNYQog2VuRQU+oJQVWmf/uXg3JOqvHIR235HGuaKz6mmzhpc!
pbYBeA==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:5779
rec.radio.amateur.homebrew:1300 alt.internet.wireless:3125
```

rec.radio.amateur.homebrew,alt.internet.wireless added back to the distribution line.

On Mon, 24 Nov 2008 10:03:32 -0800, John Smith <assemblywizard@gmail.com> wrote:

>Jeff Liebermann wrote:
>> If stealing internet service from the neighbors is your intended
>> purpose, you selected the wrong type of antenna.   ...
>
>I'd say stealing is bit strong, I run an open wireless access point
>here, its' SSID is "WelcomeAboard!"

My home system is "1540 Jackson Ave" which is my address. The assumption is that someone wanting to use my system can bang on the door and ask permission. My office SSID uses the company name.

>I think that "wrong type" (referring to OMNI, apparently) of antenna is
>perfect, given there are a few access points within range.

I'll stand by my statement. Unless you're running a mesh network, an omni at the client end is a bad idea. The client knows the direction of the desired access point and should use a directional antenna to minimize interference. In my limited experience (I ran a small WISP and neighborhood LAN/WLAN for a few years) interference is the most serious impediment to reliable operation. The more you can do to NOT hear the undesired stations, the more reliable the connection.

>You can
>"bridge" multiple access points for better throughput ...

Sorta. You can do route switching easily enough, but load balancing between multiple internet connections can't be done without IP bonding, which requires everyone's cooperation (including the ISP's). The problem is that you can't use multiple ISP's to improve the download speed from a single connection. For example, if you want to download a large file, it will only go as fast as the speed of the fastest ISP connection. The other WAN interfaces remain comatose because there's no way to bond the single destination IP to two different download streams and routes. You can download something else using the 2nd WAN interface, but you can't use it to increase the speed of the first. Uploading has a similar limitation, where you can't improve the speed to a single connection. Where such routers work best is if there is a LAN full of users sharing multiple WAN connections, not for a single user looking for "better throughput..."

I've used a few of these with moderate success:
<http://www.edimax.com/en/produce_list.php?pl1_id=3&pl2_id=>
(See load balancing and multi-homing routers near bottom of page).

Incidentally, multiple cient radios, run to a passive combiner in a single omni antenna is a total loser. The FCC specifically proscribes synchronizing wi-fi radios. Even if the isolation can be increased sufficiently to prevent receiver overload, it's highly probable that a receive packet will arrive exactly when some other client radio goes into transmit. Some relief can be obtained by using different non-overlapping channels (1, 6, 11), but only with expensive bandpass cavity filters. The spread spectrum spreads quite nicely into the spectrum of the adjacent radio.

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From 711572052152872030
X-Google-Thread: fc2a5,ffb4995423606c03
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
j35g2000yqh.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Doubling
Date: Mon, 24 Nov 2008 11:21:32 -0800 (PST)
Organization: http://groups.google.com
Lines: 40
Message-ID: <87f4375f-e3b4-460c-95ce-2d3e55a29dce@j35g2000yqh.googlegroups.com>
References: <gg7qs402stp@news1.newsguy.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227554492 8096 127.0.0.1 (24 Nov 2008 19:21:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 24 Nov 2008 19:21:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j35g2000yqh.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1301

On Nov 21, 9:30=A0pm, exray <radioex...@geeemail.com> wrote:
> This is a really dumb question but it dawned on me that I did not know
> the correct answer.
>
> In terms of old transmitters from the 20s/30s...In a crystal oscillator
> =A0 I understand the concept of setting the oscillator output tank to
> favor the harmonic from the crystal. =A0(Stop me if I'm wrong already...)

You're right on the trail. Most oscillator circuits are operating deep in class C. The exceptions are called "marginal, doesn't always start" oscillators :-).

Some oscillators make the crystal operate on an overtone. An overtone is often very very close to a harmonic. In this case the LC tank chooses the overtone where gain is going to be greater than one. Overtones close to odd harmonics are usually much more active in the crystal.

Other oscillators make the crystal operate on the fundamental, and the output picks off the harmonic. This is where the electron coupled oscillator shines.

It's possible to have the crystal operate on the overtone, and then electron-couple to pick a harmonic of the overtone. You see this in some 40's/50's/60's era VHF projects.

> But in a doubling amplifier stage am I counting on having enough
> harmonic content at the input or am I creating the harmonic with the
> non-linearity of the amplifier?

Mostly creating. It doesn't hurt if there's some harmonic content at the input. Again, for efficiency most of the power stages will be in class C already, and if they need to multiply in a non-power stage they'll set it up to make a lot of harmonics.

Individual stages are sometimes configured in push-pull to favor odd harmonics over even ones, or are biased to be favorable for the desired harmonic.

Tim.

From 7976926356271146347
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Thread: 108122,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z28g2000prd.googlegroups.com!not-for-mail
From: cmdr buzz corey <cmdr-buzz-corey@mailcity.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: Re: VoiceMax Speech Processor
Date: Mon, 24 Nov 2008 13:00:20 -0800 (PST)
Organization: http://groups.google.com
Lines: 6
Message-ID: <10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
NNTP-Posting-Host: 97.112.141.194
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1227560420 24233 127.0.0.1 (24 Nov 2008 21:00:20 GMT)
X-Complaints-To: groups-abuse@google.com

```
NNTP-Posting-Date: Mon, 24 Nov 2008 21:00:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z28g2000prd.googlegroups.com; posting-host=97.112.141.194;
     posting-account=HJ9iyAoAAAAfGCc0rQlblmrdTKl_8J7N
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.17)
     Gecko/20061201 Firefox/2.0.0.17 (Ubuntu-feisty),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.cb:4690 rec.radio.amateur.homebrew:1302
rec.radio.amateur.equipment:878

On Nov 14, 5:13 am, Telstar Electronics <briangrif...@sbcglobal.net>
wrote:
> The VoiceMax speech processor is not for everyone...
> It's only for radio operators that want maximum range from their rig.

Along with maximum splatter.



From 3316158582711495516
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.speakeasy.net!news.speakeasy.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 24 Nov 2008 16:31:43 -0600
From: "Bill Kearney" <wkearney99@hotmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>  <e3cf8449-
a500-4d01-9692-0d6159cd42d3@q9g2000yqc.googlegroups.com>  <55fa82bf-331e-47b1-
b0ad-e02e009eb7b0@20g2000yqt.googlegroups.com>
<1lnji49vl1nulfrb9go7ker43dro840p2v@4ax.com>
<aqtji4dtdh33fj33k0ge2h8lrmsco4e2d6@4ax.com> <1ca64c73-7e41-4dd7-9149-
f2f433df4422@w35g2000yqm.googlegroups.com>
<rkoli4dv240dua688aajl5eqmf27sdlphj@4ax.com>
Subject: Re: WiFi antenna recommendations?
Date: Mon, 24 Nov 2008 17:31:16 -0500
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5512
Message-ID: <vo2dnUEGm7DNtrbUnZ2dnUVZ_qrinZ2d@speakeasy.net>
Lines: 6
X-Usenet-Provider: http://www.giganews.com
```

```
NNTP-Posting-Host: 66.92.145.79
X-Trace: sv3-HQHeKyKAQ2MWgeK0a1rUWpyrstwn3Z/rO/
jePgcHtwyDzryXq9ywWC12kAfefIcoiCaPrrjQF9QQZ+0!
tSicQ2LXFsm6tqvNQRqBInCg4T3F9Um3TcRos2ORRwp6ExWiBSg/zIjnJnx8DtOnHXg2cRS5Osre!
ScSvYCesJpjCRVq/aDksDzSSAnCnkQhA
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.antenna:7569
rec.radio.amateur.homebrew:1600 alt.internet.wireless:4236
```

> I suspect the open access point was an intentional trap set for hotel
> visitors.

Great way to collect accounts and passwords, sit outside a coffee shop with some gear and you're set.

```
From -7485342561880265983
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.speakeasy.net!news.speakeasy.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 24 Nov 2008 16:32:43 -0600
From: "Bill Kearney" <wkearney99@hotmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>  <e3cf8449-
a500-4d01-9692-0d6159cd42d3@q9g2000yqc.googlegroups.com>  <55fa82bf-331e-47b1-
b0ad-e02e009eb7b0@20g2000yqt.googlegroups.com>
<1lnji49vl1nulfrb9go7ker43dro840p2v@4ax.com>
<aqtji4dtdh33fj33k0ge2h8lrmsco4e2d6@4ax.com> <1ca64c73-7e41-4dd7-9149-
f2f433df4422@w35g2000yqm.googlegroups.com>
<rkoli4dv240dua688aajl5eqmf27sdlphj@4ax.com> <ggeq9l$lak$1@news.albasani.net>
<s8sli4hk9nv2elc4e6o8ifka56a5rphsf1@4ax.com>
Subject: Re: WiFi antenna recommendations?
Date: Mon, 24 Nov 2008 17:32:40 -0500
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5512
```

Message-ID: <-bOdncgMCo4WtrbUnZ2dnUVZ_sWdnZ2d@speakeasy.net>
Lines: 10
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 66.92.145.79
X-Trace: sv3-mJwfk2sKkxydt54uYFy3EOmCBVUP2b0oQBT7LnJbKFmju4f7EN8h/
gS7kI4Y4Ccp76WfAYjx6C+ZsNy!
3w8hJ8b6M59qkoJOI1UAgY+CpsRgTvfWKXgAZwToW6nXAtuZow+hP9bbPyBNDRLV+clBn31Wgk1c!
YRTtZjyi9gF+MpZLGQ4bx/wvRImU40Dj
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:5792
rec.radio.amateur.homebrew:1304 alt.internet.wireless:3132

> My home system is "1540 Jackson Ave" which is my address. The
> assumption is that someone wanting to use my system can bang on the
> door and ask permission. My office SSID uses the company name.

Which raises the question, if someone uses your access point without
permission are you within your rights to do whatever you please with the
packets (and their contents) you detect?

Seems fair, steal my airwaves and I'll steal your data in return.

From -8604721028143427255
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
newsfeed3.dallas1.level3.net!news.level3.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net> <e3cf8449-
a500-4d01-9692-0d6159cd42d3@q9g2000yqc.googlegroups.com> <55fa82bf-331e-47b1-
b0ad-e02e009eb7b0@20g2000yqt.googlegroups.com>
<1lnji49vl1nulfrb9go7ker43dro840p2v@4ax.com>
<aqtji4dtdh33fj33k0ge2h8lrmsco4e2d6@4ax.com> <1ca64c73-7e41-4dd7-9149-
f2f433df4422@w35g2000yqm.googlegroups.com>
<rkoli4dv240dua688aajl5eqmf27sdlphj@4ax.com> <ggeq9l$lak$1@news.albasani.net>
<s8sli4hk9nv2elc4e6o8ifka56a5rphsf1@4ax.com>
Subject: Re: WiFi antenna recommendations?
Lines: 12
MIME-Version: 1.0
Content-Type: text/plain;

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     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <LgHWk.705$QX3.9@nwrddc02.gnilink.net>
Date: Tue, 25 Nov 2008 00:02:51 GMT
NNTP-Posting-Host: 71.116.191.197
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1227571371 71.116.191.197 (Mon, 24 Nov 2008 19:02:51
EST)
NNTP-Posting-Date: Mon, 24 Nov 2008 19:02:51 EST
Xref: g2news2.google.com rec.radio.amateur.antenna:7576
rec.radio.amateur.homebrew:1602 alt.internet.wireless:4239

> >I'd say stealing is bit strong, I run an open wireless access point
> >here, its' SSID is "WelcomeAboard!"
>
> My home system is "1540 Jackson Ave" which is my address.  The
> assumption is that someone wanting to use my system can bang on the
> door and ask permission.  My office SSID uses the company name.

LMAO!  My SSID is the same as my front gate Password.  That way I never have
to worry about opening it when I get home from work and the party is always
in full swing when I get there!  It's a little bit bothersome when dead
bodies turn up in the moat though!



From 5833428335390707864
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 24 Nov 2008 18:08:05 -0600
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
<ggeq9l$lak$1@news.albasani.net> <s8sli4hk9nv2elc4e6o8ifka56a5rphsf1@4ax.com> <-
bOdncgMCo4WtrbUnZ2dnUVZ_sWdnZ2d@speakeasy.net>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Mon, 24 Nov 2008 15:47:04 -0800
Message-ID: <o0rrv5-4lp.ln1@radagast.org>
Lines: 60
X-Usenet-Provider: http://www.giganews.com
```

NNTP-Posting-Host: 71.159.209.148
X-Trace: sv3-
EaEhaJJWUzr8Rtox1wkP09qUarD7JC0fIF1DW97JioWbZlktMgWd85TcQqHVBWwfx4D4dyH4x2QE4la!
hZt/qNN9sHqmnGpN56YEhbJo0KV9Ar3+9hPosyv/F2Az0wSpWgGAdAUUibz+Mg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.antenna:7578
rec.radio.amateur.homebrew:1603 alt.internet.wireless:4240

In article <-bOdncgMCo4WtrbUnZ2dnUVZ_sWdnZ2d@speakeasy.net>,
Bill Kearney <wkearney99@hotmail.com> wrote:

>> My home system is "1540 Jackson Ave" which is my address. The
>> assumption is that someone wanting to use my system can bang on the
>> door and ask permission. My office SSID uses the company name.
>
>Which raises the question, if someone uses your access point without
>permission are you within your rights to do whatever you please with the
>packets (and their contents) you detect?
>
>Seems fair, steal my airwaves and I'll steal your data in return.

As far as the FCC is concerned, I suspect that the usual "third party reception" rules would apply. If the communication is transmitted over the airwaves but is not intended for you, you're permitted to intercept the communication but *not* to make gainful personal use of what you overhear.

There was one company which tried to prosecute some local "wardrivers" who had publicized the fact that the company was running an open wireless network. The FCC not only refused to pursue their complaint (pointing out that the company had created the problem and failed to mitigate it by turning on WEP), but cited the company for running an illegal Part 15 network (they were using external high-power amplifiers on their APs).

I'm reasonably sure that any criminal actions you implement with the use of such data (e.g. making any unauthorized access to a protected computer system, etc.) would *NOT* seen as legitimate by The Powers That Be, even if you gained knowledge of that data by scarfing it off of your own access point during an unauthorized use thereof.

As I understand it, there isn't any standard interpretation (even in under U.S. laws) as to what rights-of-usage apply to an open access point, in the absence of a statement by the AP's owner as to what the rules are. The FCC doesn't appear to consider this aspect of the wireless problem to be part of their jurisdiction.

I believe that in some areas, using such an AP without having received some explicit form of permission is considered to be a tort (a civil wrong) and the owner could file suit against you. Using the AP to break into a computer network (e.g. accessing files, etc.) could easily qualify as a prosecutable "computer crime".

I've read that some municipalities have passed a rule which says that the act of setting up an insecure access point, and broadcasting beacons "to the wind", counts as something akin to an open invitation... enough so that the use of the AP without explicit permission isn't considered a crime, or (I think) even a tort. This might especially be true in the case of those APs/routers which come with a WEP password pre-installed (the 2Wire models are one example) and in which the owner must explicitly disable the security feature if s/he decides that this is appropriate.

```
--
Dave Platt <dplatt@radagast.org>                                   AE6EO
Friends of Jade Warrior home page:  http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!
```

```
From -2212959962629065364
X-Google-Thread: 106d41,fc6cbb34a018c5bc
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Thread: 108122,fc6cbb34a018c5bc
X-Google-Attributes: gid106d41,gidfc2a5,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!d32g2000yqe.googlegroups.com!not-for-
mail
From: an old friend <kb9rqz@yahoo.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: Re: VoiceMax Speech Processor
Date: Mon, 24 Nov 2008 17:28:54 -0800 (PST)
Organization: http://groups.google.com
Lines: 11
Message-ID: <98a62611-fb5f-45f0-8042-af5191d51bf3@d32g2000yqe.googlegroups.com>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
     <10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
NNTP-Posting-Host: 69.19.14.31
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227576534 5783 127.0.0.1 (25 Nov 2008 01:28:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 25 Nov 2008 01:28:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d32g2000yqe.googlegroups.com; posting-host=69.19.14.31;
     posting-account=KMtInQoAAADyqpyVogjjHvJnhcPWkrRh
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.cb:4697 rec.radio.amateur.homebrew:1307
rec.radio.amateur.equipment:879
```

On Nov 24, 4:00=A0pm, cmdr buzz corey <cmdr-buzz-co...@mailcity.com>
wrote:
> On Nov 14, 5:13 am, Telstar Electronics <briangrif...@sbcglobal.net>
> wrote:
>
> > The VoiceMax speech processor is not for everyone...
> > It's only for radio operators that want maximum range from their rig.
>
> Along with maximum splatter.

at least he has a name and the guts to use it

From 1081528360638710018
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews3.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: weller EC2002C soldering station
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
<490BECC9.3070005@NETTALLY.COM> <Xns9B499C88C85BC2MDWN@194.177.96.78> <9ea9aaa3-
b83c-465e-b370-d13686810d01@a17g2000prm.googlegroups.com>
<EPJTk.66346$Ep1.55496@bignews2.bellsouth.net>
<Xns9B57D8DD99DA12MDWN@194.177.96.78>
In-Reply-To: <Xns9B57D8DD99DA12MDWN@194.177.96.78>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 69
Message-ID: <XlJWk.68288$kh2.47919@bignews3.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcboimkbdjmjjlmcgbimbcjhjhfbdgakjgbkec
kpcepijbifckoeolfhmkanilcgejgedgccdebdgpgdfpfbgkphgkhnedhlpgnifjebpcldjjpilnie
NNTP-Posting-Date: Mon, 24 Nov 2008 21:24:55 EST
Organization: BellSouth Internet Group
Date: Mon, 24 Nov 2008 21:28:13 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1308
X-Original-Bytes: 4707

Grumpy The Mule wrote:
> Howdy,
>
> I've managed several labs where we had dozens of WTCP stations
> in daily use.
>

> The only problem I found with WTCP is the connector between the
> base and the cord. I usually remove the connector and hardwire
> the cord at the base. It causes the intermittent operation that
> you've decribed.
>
> I couldn't agree with you more concerning the damage Cooper
> did to the Weller brand. Since they moved production to Mexico
> the quality control is nonexistant. Some of the design changes
> which I believe were intended as cost reductions were ill advised
> too. The old Weller soldering guns are indestructable.
>
> At home I have a Pace soldering/desoldering station and a Metcal
> SMT station. I've no complaints other than the price.
>
> At work we have a Hakko soldering/deslodering station and it's a
> real work horse. We also have a Metcal SMT station which is a bit
> fussy but it has been though hell and back. We just bought a couple
> Pace ST70 soldering stations for general purpose work. I think we will
> buy a few more, they're great.
>
> It's too bad that Wahl quit selling Sterling soldering irons in
> the US. It's an odd little iron but I love it. Thirty years old
> and it's still the first iron I reach for in my shop. The original
> tip is perfect! I called Wahl about buying a second iron and no one
> there knew what I was talking about. The most clever feature is an
> aluminum washer between the tip and body of the iron. The difference
> in coefficient of expansion keeps the tip from seizing. It says made
> in England on the body. Google was no help... sigh.
>
>
> 73,
> Grumpy
>

I remember the Wahl 'iso tip' battery irons. Nice portable tool for
field repairs (but useless for field day PL-259 assembly!). Only
problems were battery and tip replacement. The tips would eventually
fall apart as the ceramic insulation surrounding the heating element
cracked.

As for field day, once I figured out how to quickly assemble PL259's
onto RG8U, I got drafted by the radio club to handle this duty at field
day. (Strip back about 4" of outer insulation, tin the braid with a HOT
soldering gun (I used the BIG Weller gun), file down the excess solder,
cut down the braid with a tubing cuter or a razer saw, remove the center
insulation, cut the center conductor to size and tin it, then slip the
coupling ring over the coax and screw on the connector, then solder it
home (with the BIG Weller gun again!). Took about 4 minutes per connector.

>
> ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in
> news:EPJTk.66346$Ep1.55496@bignews2.bellsouth.net:
>
>>> Tim N3QE

>> I went through two WTCP's. They worked ok, but eventually got
>> intermittent and would not stay hot. I now have a WES51/PES51 setup.
>> No more changing tips to change temperature, just dial it in. No led
>> display, but the dial is calibrated close enough. Also the soldering
>> pencil is lighter and less bulky than the WTCP was. Still I did like
>> the WTCP's all in one construction over the two piece (power supply and
>> iron stand) of the 'ES51. The Coper group has destroyed Weller. I
>> collect old Weller guns whenever I find them, the new ones SUCK.
>>
>

From -7160271963013095736
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 25 Nov 2008 00:03:30 -0600
From: Jeff Liebermann <jeffl@cruzio.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
Date: Mon, 24 Nov 2008 22:03:28 -0800
Message-ID: <mj4ni4la1f6bljnn1tkgi8okah20g75dp7@4ax.com>
References: <e3cf8449-a500-4d01-9692-0d6159cd42d3@q9g2000yqc.googlegroups.com>
<55fa82bf-331e-47b1-b0ad-e02e009eb7b0@20g2000yqt.googlegroups.com>
<1lnji49vl1nulfrb9go7ker43dro840p2v@4ax.com>
<aqtji4dtdh33fj33k0ge2h8lrmsco4e2d6@4ax.com> <1ca64c73-7e41-4dd7-9149-
f2f433df4422@w35g2000yqm.googlegroups.com>
<rkoli4dv240dua688aajl5eqmf27sdlphj@4ax.com> <ggeq9l$lak$1@news.albasani.net>
<s8sli4hk9nv2elc4e6o8ifka56a5rphsf1@4ax.com> <-
bOdncgMCo4WtrbUnZ2dnUVZ_sWdnZ2d@speakeasy.net>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 31
X-Trace: sv3-
pK431zuy0Gfb3N7lGQ68HHy0Vgon0q4tcnFAO3oms8i1Euq0quDc6rja20bpaGz+F8c5HpdMHTdaEHC!
au+b1Ujg9MsFCE+HV60UI7IDdFxVG6LnEDuEUVjyu/EzqINInhFaz41zjjvfQQrHZB9E1+eHBKhx!
a3FYig==
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.antenna:7582
rec.radio.amateur.homebrew:1606 alt.internet.wireless:4245

On Mon, 24 Nov 2008 17:32:40 -0500, "Bill Kearney"

<wkearney99@hotmail.com> wrote:

>> My home system is "1540 Jackson Ave" which is my address. The
>> assumption is that someone wanting to use my system can bang on the
>> door and ask permission. My office SSID uses the company name.

>Which raises the question, if someone uses your access point without
>permission are you within your rights to do whatever you please with the
>packets (and their contents) you detect?
>
>Seems fair, steal my airwaves and I'll steal your data in return.

Nope. Two wrongs don't make a right. You'll also find that "an eye
for an eye" and retailiation are not actionable in the USA legal
system. Simply having your rights violated, does not magically make
it open season on the perpetrator. The courts are expected to deal
out the necessary justice, not you. For example, catching a burglar
in the act does not give you the right to pound him into the ground.
You can and probably will be charged with battery for doing that.

I have some experience and opinions with Wi-Fi related crimes and
enforcement, but I don't wanna start yet another political discussion.

--
Jeff Liebermann   jeffl@cruzio.com
150 Felker St #D   http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann   AE6KS   831-336-2558

From -57257435936625891
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: weller EC2002C soldering station
Date: Tue, 25 Nov 2008 07:48:27 +0100 (CET)
Organization: Mostly In Piles
Lines: 63
Message-ID: <Xns9B6183B9A8422MDWN@194.177.96.78>
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
<490BECC9.3070005@NETTALLY.COM> <Xns9B499C88C85BC2MDWN@194.177.96.78> <9ea9aaa3-b83c-465e-b370-d13686810d01@a17g2000prm.googlegroups.com>
<EPJTk.66346$Ep1.55496@bignews2.bellsouth.net>
<Xns9B57D8DD99DA12MDWN@194.177.96.78>
<XlJWk.68288$kh2.47919@bignews3.bellsouth.net>
NNTP-Posting-Host: qfhEfaBHN9JBjXeQjxJyFg.user.aioe.org
X-Complaints-To: abuse@aioe.org

```
NNTP-Posting-Date: Tue, 25 Nov 2008 06:48:27 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.5
Xref: g2news1.google.com rec.radio.amateur.homebrew:1310
```

Howdy,

I kept the iso-tip iron in my briefcase. It heats fast and I don't regret having bought it. When the batteries went bad I no longer had a use for it. So it ended up somewhere... can't remember where. The ceramic fell out of the tips on me too. I think the engineers at Wahl should have talked to someone at Cotronics.

I got tired of tightening the tips on the guns and bought an 80W "pencil." A studly iron, suitable for soldering sheets of copper and bus bars. For me the next step up from this is a torch. It's only 80W so at first blush I expected a higher wattage gun to work better but there's a lot more thermal mass in the iron. The copper tip is a slug about 1/2" dia and 1-1/4" lg. It makes fast work of PL259's.

I like the tubing cutter technique if the coax has enough braid. Some of the junky stuff I just flood the connector with solder through the connector's holes and mostly it works. I've tried wrapping the scant braid with fine wire first which may help. Buying or scrounging good quality coax with decent braid coverage is the best answer.

I thought the crimper for PL259's (on RG8 size coax) was a great idea but after reading some reviews and looking at the photos of cracks in the connector I'm not so sure. I thought of buying a set of dies and fixing them to a hefty arbor press I have in the garage. Though soldering has proved reliable and I like reliable.

73,
Grumpy

ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in
news:XlJWk.68288$kh2.47919@bignews3.bellsouth.net:

> I remember the Wahl 'iso tip' battery irons. Nice portable tool for
> field repairs (but useless for field day PL-259 assembly!). Only

> problems were battery and tip replacement. The tips would eventually
> fall apart as the ceramic insulation surrounding the heating element
> cracked.
>
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> field day. (Strip back about 4" of outer insulation, tin the braid
> with a HOT soldering gun (I used the BIG Weller gun), file down the
> excess solder, cut down the braid with a tubing cuter or a razer saw,
> remove the center insulation, cut the center conductor to size and tin
> it, then slip the coupling ring over the coax and screw on the
> connector, then solder it home (with the BIG Weller gun again!). Took
> about 4 minutes per connector.

```
From -4201516173137107737
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 25 Nov 2008 01:29:24 -0600
From: "Bryan" <bryan.swadenerNOSPAM@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
<10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
Subject: Re: VoiceMax Speech Processor
Date: Mon, 24 Nov 2008 23:29:27 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <YsWdndfLC_jINLbUnZ2dnUVZ_hGdnZ2d@giganews.com>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
MWP9+2ggPiWbNIq7hwvI4lsTqnvQfYozG3ez3nnxeyQF5hnK04eKl5fL+zxhuaJr23YZHz+GmJwDGe5!
urHTYZziRu/1vI08CwEtWNU4UWg9XJdRSbiNeoYYIVS3wHdhy9Rc4zwboZYbLVR4oQZFht0TMA==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:1608
```

cmdr buzz corey wrote:
> On Nov 14, 5:13 am, Telstar Electronics wrote:
>> The VoiceMax speech processor is not for everyone...

>> It's only for radio operators that want maximum range from their rig.
>
> Along with maximum splatter.

In looking closely at his photos, it appears his circuit is based on the Analog Devices SSM2166 (product data: http://tinyurl.com/6eadpn). The specifications indicate it *can* be operated cleanly. Of course, to set it up requires at least an oscilloscope... which many hams don't own (or know how to use).

Based on the photos I've seen, I wouldn't buy one because of the poor soldering:
http://img105.imagevenue.com/img.php?image=97441_VoiceMax_122_173lo.jpg.
I'll just continue to use my 2-tube (2x 3-500Z) speech "processor":
http://www.rigpix.com/linears/sb220.htm

Bryan WA7PRC

From -1218975799335364440
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews7.bellsouth.net.POSTED!7eee1d3b!not-for-mail
From: "Ed Cregger" <ecregger@bellsouff.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
References: <e3cf8449-a500-4d01-9692-0d6159cd42d3@q9g2000yqc.googlegroups.com>
<55fa82bf-331e-47b1-b0ad-e02e009eb7b0@20g2000yqt.googlegroups.com>
<1lnji49vl1nulfrb9go7ker43dro840p2v@4ax.com>
<aqtji4dtdh33fj33k0ge2h8lrmsco4e2d6@4ax.com> <1ca64c73-7e41-4dd7-9149-f2f433df4422@w35g2000yqm.googlegroups.com>
<rkoli4dv240dua688aajl5eqmf27sdlphj@4ax.com> <ggeq9l$lak$1@news.albasani.net>
<s8sli4hk9nv2elc4e6o8ifka56a5rphsf1@4ax.com> <-bOdncgMCo4WtrbUnZ2dnUVZ_sWdnZ2d@speakeasy.net>
<mj4ni4la1f6bljnn1tkgi8okah20g75dp7@4ax.com>
Subject: Re: WiFi antenna recommendations?
Lines: 39
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <v8SWk.69060$De7.37534@bignews7.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling

X-Trace:
enggpaojkliedbjjdbdpiflmbcekedmfhojhikkbagflhcboghhihpdebmidnoeipnnlgomjdphhjaapif
eckepfagppmljihbfhlbcndpekaiejdgccdebdgpgdfpfbhlibmbekjmmllbhepiemmhgefmiapjod
NNTP-Posting-Date: Tue, 25 Nov 2008 07:24:59 EST
Organization: BellSouth Internet Group
Date: Tue, 25 Nov 2008 07:32:00 -0500
Xref: g2news1.google.com rec.radio.amateur.antenna:5809
rec.radio.amateur.homebrew:1312 alt.internet.wireless:3142

"Jeff Liebermann" <jeffl@cruzio.com> wrote in message
news:mj4ni4la1f6bljnn1tkgi8okah20g75dp7@4ax.com...
> On Mon, 24 Nov 2008 17:32:40 -0500, "Bill Kearney"
> <wkearney99@hotmail.com> wrote:
>
>>> My home system is "1540 Jackson Ave" which is my address. The
>>> assumption is that someone wanting to use my system can bang on the
>>> door and ask permission. My office SSID uses the company name.
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>>
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> Nope. Two wrongs don't make a right. You'll also find that "an eye
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> it open season on the perpetrator. The courts are expected to deal
> out the necessary justice, not you. For example, catching a burglar
> in the act does not give you the right to pound him into the ground.
> You can and probably will be charged with battery for doing that.
>
> I have some experience and opinions with Wi-Fi related crimes and
> enforcement, but I don't wanna start yet another political discussion.

Just like feces and politicians, politics is a fact of life.

Where's my coffee...? <G>

Ed, N2ECW

From -1420000607867502209
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d

```
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!k36g2000yqe.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
Date: Tue, 25 Nov 2008 09:08:49 -0800 (PST)
Organization: http://groups.google.com
Lines: 75
Message-ID: <bcf8391a-d084-42b1-9169-bfdf1ea7a167@k36g2000yqe.googlegroups.com>
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
     <e3cf8449-a500-4d01-9692-0d6159cd42d3@q9g2000yqc.googlegroups.com>
     <55fa82bf-331e-47b1-b0ad-e02e009eb7b0@20g2000yqt.googlegroups.com>
     <1lnji49vl1nulfrb9go7ker43dro840p2v@4ax.com>
<aqtji4dtdh33fj33k0ge2h8lrmsco4e2d6@4ax.com>
     <1ca64c73-7e41-4dd7-9149-f2f433df4422@w35g2000yqm.googlegroups.com>
     <rkoli4dv240dua688aajl5eqmf27sdlphj@4ax.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227632930 24426 127.0.0.1 (25 Nov 2008 17:08:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 25 Nov 2008 17:08:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k36g2000yqe.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:7596
rec.radio.amateur.homebrew:1610 alt.internet.wireless:4251

On Nov 24, 12:46=A0pm, Jeff Liebermann <je...@cruzio.com> wrote:
> On Sun, 23 Nov 2008 19:26:58 -0800 (PST), JIMMIE
>
>
>
>
>
> <JIMMIEDEE...@YAHOO.COM> wrote:
> >On Nov 23, 7:39=A0pm, Jeff Liebermann <je...@cruzio.com> wrote:
> >> On Sun, 23 Nov 2008 15:32:02 -0800, Jeff Liebermann <je...@cruzio.com>
> >> wrote:
>
> >> >NEC2 model:
> >> ><http://802.11junk.com/jeffl/antennas/AMOS-7/>
> >> ><http://802.11junk.com/jeffl/antennas/AMOS-5/> =A0(not optimized yet)
>
> >> Fixed. =A0I was feeling guilty so I ran it through the optimizer in
```

> >> 4NEC2. =A0I haven't built a 5 dipole AMOS yet using these dimensions.
> >I put one up I use with a WiFi repeater and I can see dozens of
> >wirless routers in my neighborhood. =A0The antena i mounted at about
> >20ft on my chimney. There are about 8 or 9 with no security. If I so
> >chose I would never have to pay for internet service. There is another
> >subdivsion behind my house I havent even looked at that one yet.
>
> If stealing internet service from the neighbors is your intended
> purpose, you selected the wrong type of antenna. =A0A sector antenna may
> be a great idea for running a WISP or central access point, where
> you're never sure of the direction the client radios are coming from.
> It's a bad idea for use at the client end. =A0The idea is to pickup as
> little interference as possible. =A0You're reception of 9 stations is a
> problem as any one of these could provide sufficient interference to
> make your pirated internet connection useless. =A0 I suggest you look
> into a panel or dish antenna, which will provide a much narrower
> horizontal beamwidth, with the added bonus of more antenna gain.
>
> >Strange thing I know 3 of the people who have the open systems and
> >they are =A0farly savy about these things. I wonder if they are leaving
> >them open on purpose.
>
> I was running an open access point at my office for a while. =A0However,
> I was also monitoring connection attempts and traffic. =A0I figured that
> nobody would bother. =A0Wrong. =A0I had some bum in a pickup truck and
> camper, connect regularly to make VoIP phone calls. =A0I had no problem
> with him using the system and we eventually came to an arrangement.
> However, he stupidly told all his friends, who immediately abused the
> system, so I locked it up with a WPA password.
>
> In another incident, one of my customers was in a hotel that wanted
> real money to use their Wi-Fi. =A0(This was about 6 years ago, before
> the widespread proliferation of free Wi-Fi service). =A0So, he connected
> to a random open access point. =A0The security on his laptop was more
> than a little lacking (writable shared folders), resulting in the
> installation of multiple trojan horses, spam bots, etc. =A0I suspect the
> open access point was an intentional trap set for hotel visitors.
>
> --
> Jeff Liebermann =A0 =A0 je...@cruzio.com
> 150 Felker St #D =A0 =A0http://www.LearnByDestroying.com
> Santa Cruz CA 95060http://802.11junk.com
> Skype: JeffLiebermann =A0 =A0 AE6KS =A0 =A0831-336-2558- Hide quoted text=
 -
>
> - Show quoted text -

I dont steal internet service but I do have an arrangement with a
couple of my neighbors so we can use each other service.
This has come in handy a couple of time now in just the last few
months when my cable went out and another neighbors cable modem went
out.
Its also a ton of fun just to build the antennas and be able to do it.

I must confess I have tapped in to a few unsecure home APs to check my email while traveling. These are often easier to find than a hotspot.

Jimmie

```
From -6425975419566492349
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 25 Nov 2008 11:51:54 -0600
Date: Tue, 25 Nov 2008 12:51:51 -0500
From: highlandham <rfburns@nospam.com>
User-Agent: Icedove 1.5.0.9 (X11/20061220)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: weller EC2002C soldering station
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
<490BECC9.3070005@NETTALLY.COM> <Xns9B499C88C85BC2MDWN@194.177.96.78> <9ea9aaa3-
b83c-465e-b370-d13686810d01@a17g2000prm.googlegroups.com>
<EPJTk.66346$Ep1.55496@bignews2.bellsouth.net>
<Xns9B57D8DD99DA12MDWN@194.177.96.78>
<XlJWk.68288$kh2.47919@bignews3.bellsouth.net>
<Xns9B6183B9A8422MDWN@194.177.96.78>
In-Reply-To: <Xns9B6183B9A8422MDWN@194.177.96.78>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <eIWdnYK1o5WnprHUnZ2dnUVZ8vydnZ2d@pipex.net>
Lines: 14
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.107.29.68
X-Trace: sv3-IFUgI8r/
kRuNHhi2uE8Cd+eYAHH4DA5K1Kpqe1Y0UbE1UyO3Ah+V+eeFtjt68WIUGWf5kAiRqssJtYy!
MbhQTi81Mkuhk8HL1LFF2IQV9lA9uNtVZzg9JkjcrHPwZaZIWi6teCkjGICaoE2hBnY4hm8AWVdx!
NOQSEjBRGqRVmLnPlnIZrkn1
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:1611
```

> I thought the crimper for PL259's (on RG8 size coax) was
> a great idea but after reading some reviews and looking
> at the photos of cracks in the connector I'm not so sure.
> I thought of buying a set of dies and fixing them to a
> hefty arbor press I have in the garage. Though soldering
> has proved reliable and I like reliable.

==================================
Perhaps it is useful to mention PL259 connectors with a braid fixing
arrangement identical to the one of an N-connector .
That leaves the tech to only solder the centre pin.
They are more expensive (abt US$4.50 ea) but imho it's worth the
expenditure.

Frank   KN6WH

```
From 1520124385350732971
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!e1g2000pra.googlegroups.com!not-for-
mail
From: seaweedsl <seaweedsteve@gmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
Date: Tue, 25 Nov 2008 12:41:46 -0800 (PST)
Organization: http://groups.google.com
Lines: 31
Message-ID: <f18ee327-fbd3-4e0b-9810-c36001b94a3a@e1g2000pra.googlegroups.com>
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
NNTP-Posting-Host: 67.142.130.16
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227645707 13144 127.0.0.1 (25 Nov 2008 20:41:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 25 Nov 2008 20:41:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e1g2000pra.googlegroups.com; posting-host=67.142.130.16;
     posting-account=OWk94goAAAAU2lfftqEm-7rWoOPDfnJW
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9)
     Gecko/2008052906 Firefox/3.0,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:7623
rec.radio.amateur.homebrew:1612 alt.internet.wireless:4253
```

On Nov 21, 1:38=A0am, DaveC <m...@bogusdomain.net> wrote:
> Looking for outdoor omni "whip" antenna for 2.4 GHz.
>
> Is there any reason to not go for the greatest gain antenna, given that c=
ost
> is not too important (within reason)?
>
> There are scads of these on the 'net. I'm looking for someone who has
> experience with one or more of them and can make a recommendation for one=
.

Higher gain omni has flatter /narrower beam. So it has to be pointed
more accurately, tilting as needed to connect with desired AP.

As Jeff says, there's no reason to use an omni for a client. Get a
much cheaper directional antenna and you will get more gain with less
interference. Pointing will be easier too.

Take a look at the pattern for this one:
http://pnt.zoovy.com/product/MD24-12/12dBi_24GHz_Mini_Directional_Antenna.h=
tml

Or consider a combination weatherproof box with built in panel antenna
like this: http://tinyurl.com/5kfd42
(Choose the version that has the pigtail you need)

That's the first thing you want to determine, by the way, how much
gain is needed?   Another thread....

Steve

```
From -7905561622401804575
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2!wns13feed!
worldnet.att.net!199.45.49.37!cyclone1.gnilink.net!gnilink.net!spln!
extra.newsguy.com!newsp.newsguy.com!news3
From: exray <radioexray@geeemail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
Date: Tue, 25 Nov 2008 16:42:03 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 26
Message-ID: <gghnuv018i9@news3.newsguy.com>
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
     <e3cf8449-a500-4d01-9692-0d6159cd42d3@q9g2000yqc.googlegroups.com>
     <55fa82bf-331e-47b1-b0ad-e02e009eb7b0@20g2000yqt.googlegroups.com>
     <1lnji49vl1nulfrb9go7ker43dro840p2v@4ax.com>
<aqtji4dtdh33fj33k0ge2h8lrmsco4e2d6@4ax.com>   <1ca64c73-7e41-4dd7-9149-
f2f433df4422@w35g2000yqm.googlegroups.com>
<rkoli4dv240dua688aajl5eqmf27sdlphj@4ax.com> <bcf8391a-d084-42b1-9169-
bfdf1ea7a167@k36g2000yqe.googlegroups.com>
NNTP-Posting-Host: p24d1bfbfff00000073b1290e905b03f4f4edcc2ec7af5129.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <bcf8391a-d084-42b1-9169-bfdf1ea7a167@k36g2000yqe.googlegroups.com>
```

Xref: g2news2.google.com rec.radio.amateur.antenna:7625
rec.radio.amateur.homebrew:1613 alt.internet.wireless:4254

JIMMIE wrote:

> I dont steal internet service but I do have an arrangement with a
> couple of my neighbors so we can use each other service.
> This has come in handy a couple of time now in just the last few
> months when my cable went out and another neighbors cable modem went
> out.
> Its also a ton of fun just to build the antennas and be able to do it.
>
> I must confess I have tapped in to a few unsecure home APs to check my
> email while traveling. These are often easier to find than a hotspot.
>
> Jimmie

Funny story... I work as a contractor and was in an office in Louisiana that supposedly had an internal wi-fi setup. Signal sure did seem weak for an internal connection. All the guys there said they didn't know what happened to it. "It used to work good".

Mr. Boss, the guy who installed it originally, was in town and said "hey, whats wrong with the wifi?". Turns out the little wireless router had fallen behind some other gear and become unplugged. All during this time the office traffic had been going thru the network of a nearby residence.

From 3346422111815840517
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Thread: 106d41,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,gid106d41,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 25 Nov 2008 20:53:18 -0600
Date: Tue, 25 Nov 2008 21:53:17 -0500
From: highlandham <rfburns@nospam.com>
User-Agent: Icedove 1.5.0.9 (X11/20061220)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb
Subject: Re: VoiceMax Speech Processor
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
<10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
<YsWdndfLC_jINLbUnZ2dnUVZ_hGdnZ2d@giganews.com> <0941ec84-4352-4cc3-
a027-38cfc93c20aa@h5g2000yqh.googlegroups.com>
In-Reply-To: <0941ec84-4352-4cc3-a027-38cfc93c20aa@h5g2000yqh.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

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Message-ID: <Kd6dnfpL4PKDJ7HUnZ2dnUVZ8jCdnZ2d@pipex.net>
Lines: 12
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NNTP-Posting-Host: 71.107.29.68
X-Trace: sv3-
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70clsStgCdbNXMgJyu+1N2rF
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1318 rec.radio.cb:4712

Telstar Electronics wrote:
> WA7PRC, you are absolutely correct that the design is based on the
> Analog Devices SSM2166 chip. I'm curious about your soldering comment.
> Why do you feel the soldering is poor? We have not had a single
> failure due to poor soldering. We have approximately 400 units in the
> field at this time. The field failure is around 0.2% during the one
> year period that these units have been on the market.
=======
That would mean that only 1 of the 400 units had failed in the field.
Is that correct ?

Frank       KN6WH


From 9144739461481253382
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!199.45.49.37!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
References: <e3cf8449-a500-4d01-9692-0d6159cd42d3@q9g2000yqc.googlegroups.com>
<55fa82bf-331e-47b1-b0ad-e02e009eb7b0@20g2000yqt.googlegroups.com>
<1lnji49vl1nulfrb9go7ker43dro840p2v@4ax.com>
<aqtji4dtdh33fj33k0ge2h8lrmsco4e2d6@4ax.com> <1ca64c73-7e41-4dd7-9149-
f2f433df4422@w35g2000yqm.googlegroups.com>
<rkoli4dv240dua688aajl5eqmf27sdlphj@4ax.com> <ggeq9l$lak$1@news.albasani.net>
<s8sli4hk9nv2elc4e6o8ifka56a5rphsf1@4ax.com> <-
bOdncgMCo4WtrbUnZ2dnUVZ_sWdnZ2d@speakeasy.net>
<mj4ni4la1f6bljnn1tkgi8okah20g75dp7@4ax.com>
<v8SWk.69060$De7.37534@bignews7.bellsouth.net>
Subject: Re: WiFi antenna recommendations?
```

```
Lines: 11
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <fc5Xk.1034$us6.455@nwrddc01.gnilink.net>
Date: Wed, 26 Nov 2008 05:32:59 GMT
NNTP-Posting-Host: 71.116.191.197
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1227677579 71.116.191.197 (Wed, 26 Nov 2008 00:32:59
EST)
NNTP-Posting-Date: Wed, 26 Nov 2008 00:32:59 EST
Xref: g2news1.google.com rec.radio.amateur.antenna:5867
rec.radio.amateur.homebrew:1319 alt.internet.wireless:3154

> Just like feces and politicians, politics is a fact of life.
>
> Where's my coffee...? <G>
>
>
> Ed, N2ECW
>
Here's my favorite political tirade.  It seems the russkis underestimated
the destructive power of the propaganda and now we are all screwed.
http://www.dailymotion.com/video/x32cxf_yuri-bezmenov



From -7596695010275724723
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Thread: 106d41,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,gid106d41,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 25 Nov 2008 23:47:31 -0600
From: "Bryan" <bryan.swadenerNOSPAM@comcast.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
<10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
<YsWdndfLC_jINLbUnZ2dnUVZ_hGdnZ2d@giganews.com> <0941ec84-4352-4cc3-
a027-38cfc93c20aa@h5g2000yqh.googlegroups.com>
Subject: Re: VoiceMax Speech Processor
Date: Tue, 25 Nov 2008 21:47:33 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
```

X-RFC2646: Format=Flowed; Original
Message-ID: <ZIGdnXx2mbVuf7HUnZ2dnUVZ_gCdnZ2d@giganews.com>
Lines: 42
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X-Trace: sv3-iGsaeKfIRl/
zd8zEK2FSFvyWf1Gcx8m9Ue8FqjdFPP0rbCoSKHK2HMgu0OEy4zUeYKmQz+cNgucFJBM!
yIxKCX48QZcMlckcb51E/qdPVgLmM70r+CYClVl6YO2AuL9FpSC/0C7PobgWN8Jz4XNCUrCP8g==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:1617 rec.radio.cb:6004

Telstar Electronics wrote:
>> Bryan wrote:
>> cmdr buzz corey wrote:
>> > On Nov 14, 5:13 am, Telstar Electronics wrote:
>> >> The VoiceMax speech processor is not for everyone...
>> >> It's only for radio operators that want maximum range from their rig.
>>
>> > Along with maximum splatter.
>>
>> In looking closely at his photos, it appears his circuit is based on the
>> Analog Devices SSM2166 (product data:http://tinyurl.com/6eadpn). The
>> specifications indicate it *can* be operated cleanly. Of course, to set
>> it
>> up requires at least an oscilloscope... which many hams don't own (or
>> know
>> how to use).
>>
>> Based on the photos I've seen, I wouldn't buy one because of the poor
>> soldering:http://img105.imagevenue.com/img.php?image=97441_VoiceMax_122_173lo.jpg.
>> I'll just continue to use my 2-tube (2x 3-500Z) speech
>> "processor":http://www.rigpix.com/linears/sb220.htm
>>
>> Bryan WA7PRC

> WA7PRC, you are absolutely correct that the design is based on the
> Analog Devices SSM2166 chip. I'm curious about your soldering comment.
> Why do you feel the soldering is poor? We have not had a single
> failure due to poor soldering. We have approximately 400 units in the
> field at this time. The field failure is around 0.2% during the one
> year period that these units have been on the market.

According the photo (http://i17.ebayimg.com/06/i/000/cb/2d/2695_1.JPG) that I found on a certain well-known auction site, all but a few solder joints had what I call "reverse fillets". The solder connections should have a concave shape but instead have a convex shape (too much solder). The few that didn't appeared to be overheated, with a grainy appearance. I hate to say so but, though you've had a low failure rate, they definitely wouldn't pass scrutiny to meet Mil, CGMP, ISO, or IPC standards.

Bryan WA7PRC

```
From -7670008089530900393
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Thread: 106d41,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,gid106d41,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!t11g2000yqg.googlegroups.com!not-for-
mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb
Subject: Re: VoiceMax Speech Processor
Date: Wed, 26 Nov 2008 04:13:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 6
Message-ID: <524a44b7-b89a-424c-b3f9-87a78d079dfb@t11g2000yqg.googlegroups.com>
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     <10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
     <YsWdndfLC_jINLbUnZ2dnUVZ_hGdnZ2d@giganews.com> <0941ec84-4352-4cc3-
a027-38cfc93c20aa@h5g2000yqh.googlegroups.com>
     <Kd6dnfpL4PKDJ7HUnZ2dnUVZ8jCdnZ2d@pipex.net>
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Content-Transfer-Encoding: quoted-printable
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NNTP-Posting-Date: Wed, 26 Nov 2008 12:13:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t11g2000yqg.googlegroups.com; posting-host=216.203.30.4;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1321 rec.radio.cb:4715
```

> That would mean that only 1 of the 400 units had failed in the field.
> Is that correct ?
> Frank =A0 =A0 =A0 KN6WH

Absolutely correct Frank... and the failure was not a soldering issue.

```
From 9025241001190997148
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Thread: 106d41,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,gid106d41,domainid0,public,usenet
```

```
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!t11g2000yqg.googlegroups.com!not-for-
mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb
Subject: Re: VoiceMax Speech Processor
Date: Wed, 26 Nov 2008 04:20:31 -0800 (PST)
Organization: http://groups.google.com
Lines: 20
Message-ID: <923b9fda-be05-4a8a-aab9-7e164692d82b@t11g2000yqg.googlegroups.com>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
     <10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
     <YsWdndfLC_jINLbUnZ2dnUVZ_hGdnZ2d@giganews.com> <0941ec84-4352-4cc3-
a027-38cfc93c20aa@h5g2000yqh.googlegroups.com>
     <ZIGdnXx2mbVuf7HUnZ2dnUVZ_gCdnZ2d@giganews.com>
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Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227702031 25941 127.0.0.1 (26 Nov 2008 12:20:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 26 Nov 2008 12:20:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t11g2000yqg.googlegroups.com; posting-host=216.203.30.4;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1322 rec.radio.cb:4716

 > According the photo (http://i17.ebayimg.com/06/i/000/cb/2d/
2695_1.JPG) that
> I found on a certain well-known auction site, all but a few solder joints
> had what I call "reverse fillets". =A0The solder connections should have =
a
> concave shape but instead have a convex shape (too much solder). =A0 The =
few
> that didn't appeared to be overheated, with a grainy appearance. =A0I hat=
e to
> say so but, though you've had a low failure rate, they definitely wouldn'=
t
> pass scrutiny to meet Mil, CGMP, ISO, or IPC standards.
> Bryan WA7PRC

You are right about possibly having too much solder... but that is
certainly not a reliability issue.
Grainy appearance of some joints is not uncommon for the new RoHS
(high-concentration of tin) solders.
As for passing military specs... that was never our intention with
this product. Thanks for your comments.


From 6417047161057457482
```

```
X-Google-Thread: fc2a5,e51e81cc81858553
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!x14g2000yqk.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR meter
Date: Wed, 26 Nov 2008 07:40:43 -0800 (PST)
Organization: http://groups.google.com
Lines: 29
Message-ID: <1172041d-85a0-45f5-b8ef-778bc6070920@x14g2000yqk.googlegroups.com>
References: <gg9p5k0pp0@news3.newsguy.com>
<c9fWk.393$us6.264@nwrddc01.gnilink.net>
     <vf-dnUriavxVBrTUnZ2dnUVZ8tPinZ2d@pipex.net>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227714044 26904 127.0.0.1 (26 Nov 2008 15:40:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 26 Nov 2008 15:40:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x14g2000yqk.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1620
```

```
On Nov 23, 1:07=A0pm, highlandham <rfbu...@nospam.com> wrote:
> > In the 78 issue there is one as you describe. =A0The broadband torroid =
sensors
> > are about standard in the autotuners and in some radios because they tu=
ne up
> > at low power. =A0They are small and don't add much inductance. =A0You m=
ight even
> > build it into a qrp rig and use a multi function meter scrapped out of =
an
> > old tape recorder or a led bar graph.
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D
> High intensity LEDs (for example those as used in traffic lights ,225 ea
> per light) already light-up at 45 microampere and hence can be directly
> used as a reflected power indicator instead of a meter.
```

Problem is, you don't get any visual output until the 1.6V biases the LED, much higher than a germanium or silicon detector diode in a traditional bridge. Some of the high-efficiency LED's are even higher forward voltage drops, and can exhibit weird visual hysteresis effects too at low current - meaning that they turn on at some current but don't turn off until a much lower current.

Many QRP'ers use a clever idea of using an auditory output from the
bridge. For example Fig 7.46 in EMRFD. Works very well in night-time
QRP'ing, and tuning to reduce the squeal is incredibly intuitive.

Tim N3QE

From -3853477459376442839
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!news.glorb.com!wn14feed!
worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
From: Bruce in alaska <fast@btpost.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
Organization: Bruce's Trading Post
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net> <f18ee327-
fbd3-4e0b-9810-c36001b94a3a@e1g2000pra.googlegroups.com>
User-Agent: MT-NewsWatcher/3.5.3b2 (PPC Mac OS X)
Message-ID: <fast-D4F3C4.09381826112008@netnews.worldnet.att.net>
Lines: 42
Date: Wed, 26 Nov 2008 18:38:16 GMT
NNTP-Posting-Host: 12.12.208.31
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1227724696 12.12.208.31 (Wed, 26 Nov
2008 18:38:16 GMT)
NNTP-Posting-Date: Wed, 26 Nov 2008 18:38:16 GMT
Xref: g2news2.google.com rec.radio.amateur.antenna:7669
rec.radio.amateur.homebrew:1621 alt.internet.wireless:4269

In article
<f18ee327-fbd3-4e0b-9810-c36001b94a3a@e1g2000pra.googlegroups.com>,
seaweedsl <seaweedsteve@gmail.com> wrote:

> On Nov 21, 1:38�am, DaveC <m...@bogusdomain.net> wrote:
> > Looking for outdoor omni "whip" antenna for 2.4 GHz.
> >
> > Is there any reason to not go for the greatest gain antenna, given that cost
> > is not too important (within reason)?
> >
> > There are scads of these on the 'net. I'm looking for someone who has
> > experience with one or more of them and can make a recommendation for one.
>
> Higher gain omni has flatter /narrower beam. So it has to be pointed
> more accurately, tilting as needed to connect with desired AP.
>
> As Jeff says, there's no reason to use an omni for a client. Get a
> much cheaper directional antenna and you will get more gain with less

> interference. Pointing will be easier too.
>
> Take a look at the pattern for this one:
> http://pnt.zoovy.com/product/MD24-12/12dBi_24GHz_Mini_Directional_Antenna.html
>
> Or consider a combination weatherproof box with built in panel antenna
> like this: http://tinyurl.com/5kfd42
> (Choose the version that has the pigtail you need)
>
> That's the first thing you want to determine, by the way, how much
> gain is needed?   Another thread....
>
>
> Steve

There are outfits that make Omni Antennas for the 2.4 Ghz Band, that have Down-tilt designed into them. This helps deal with the flattening of the Vertical Polarization for local connections. I have one located on a 60ft Tower that has multiple AP's at various Azimuths, with ranges out to 2 miles. Works well for a Central Distribution.

--
Bruce in alaska
add <path> after <fast> to reply

```
From -1093430873657463136
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Thread: 108122,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!nlpi057.nbdc.sbc.com!
prodigy.net!flph199.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
flpi148.ffdc.sbc.com.POSTED!53558094!not-for-mail
From: "Rectifier" <redgranite_2000@yahoo.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
<10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
In-Reply-To: <10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
Subject: Re: VoiceMax Speech Processor
Lines: 22
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
Message-ID: <tZgXk.6309$W06.728@flpi148.ffdc.sbc.com>
NNTP-Posting-Host: 69.151.79.22
```

X-Complaints-To: abuse@prodigy.net
X-Trace: flpi148.ffdc.sbc.com 1227725785 ST000 69.151.79.22 (Wed, 26 Nov 2008 13:56:25 EST)
NNTP-Posting-Date: Wed, 26 Nov 2008 13:56:25 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
SCSYQN_@OHTER\PXTBCFO\DB[X_LPO@FCIXNMRQIMASJETAANVW[AKWZE\]^XQWIGNE_[EBL@^_\^JOCQ^RSNVLGTFTKHTXHHP[NB_C@\SD@EP_[KCXX__AGDDEKGFNB\ZOKLRNCY_CGG[RHT_UN@C_BSY\G__IJIX_PLSA[CCFAULEY\FL\VLGANTQQ]FN
Date: Wed, 26 Nov 2008 12:56:20 -0600
Xref: g2news1.google.com rec.radio.cb:4719 rec.radio.amateur.homebrew:1325 rec.radio.amateur.equipment:884

"cmdr buzz corey" <cmdr-buzz-corey@mailcity.com> wrote in message
news:10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com...
> On Nov 14, 5:13 am, Telstar Electronics <briangrif...@sbcglobal.net>
> wrote:
>> The VoiceMax speech processor is not for everyone...
>> It's only for radio operators that want maximum range from their rig.
>
> Along with maximum splatter.

LOL.

His website claims that Mouser Electronics is a "partner." Searches on Mouser for "Telstar" and "VoiceMax" return zero results. Hmm. . does buying some parts from Mouser make them a "partner." If so, I'm a "partner" with Mouser, too.

LOL

LOL

From -4814536359077308657
X-Google-Thread: 106d41,fc6cbb34a018c5bc
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Thread: 108122,fc6cbb34a018c5bc
X-Google-Attributes: gid106d41,gidfc2a5,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!z1g2000yqn.googlegroups.com!not-for-mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: Re: VoiceMax Speech Processor
Date: Wed, 26 Nov 2008 17:22:44 -0800 (PST)
Organization: http://groups.google.com
Lines: 11
Message-ID: <020a50e0-c5ad-4a71-8e59-eb90b328855d@z1g2000yqn.googlegroups.com>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>

```
     <10048f70-225e-4ba3-acee-632151f1ac30@z28g2000prd.googlegroups.com>
     <tZgXk.6309$W06.728@flpi148.ffdc.sbc.com>
NNTP-Posting-Host: 99.140.254.59
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227748964 4884 127.0.0.1 (27 Nov 2008 01:22:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 27 Nov 2008 01:22:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z1g2000yqn.googlegroups.com; posting-host=99.140.254.59;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
     .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506;
     InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.cb:4731 rec.radio.amateur.homebrew:1326
rec.radio.amateur.equipment:885

> His website claims that Mouser Electronics is a "partner." =A0Searches on
> Mouser for "Telstar" and "VoiceMax" return zero results. =A0Hmm. . does b=
uying
> some parts from Mouser make them a "partner." =A0If so, I'm a "partner" w=
ith
> Mouser, too.

The dictionary defines partner as "One that is united or associated
with another or others in an activity or a sphere of common interest."
So yes, in your example... you would be a partner of Mouser.



From 7178490338803118457
X-Google-Thread: fc2a5,4da60416ef44f0c4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
news-1.dfn.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Article about a portable PC that runs on 12v?
Date: Tue, 11 Nov 2008 01:43:22 +0000
Organization: Bias Comms
Lines: 18
Message-ID: <6ns6alFl5pmU1@mid.individual.net>
References: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com>
<tN6dnTLjt9YZNoXUnZ2dneKdnZydnZ2d@pipex.net> <90853ff4-
a29e-4167-900c-77583682f7f0@l33g2000pri.googlegroups.com>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=utf-8
Content-Transfer-Encoding: 8Bit
X-Trace: individual.net J0YRB0v/Wc4qj8fTsaP7KwoeRXk1b813CsSr/oYVfw9Q1Ag84N
```

Cancel-Lock: sha1:m+/nXVnyUeslK54xzUrt2BKB6TI=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3577

JIMMIE wrote:

> They are a great little PC at a GREAT price. They are not selling so
> hot,

They might not be selling where you live, but over here in the UK the shops can't get enough of them. The Linux ones are outselling the XP ones by a factor of 4 to 1 - partly because of the price, and partly because the performance with XP is pretty bad, especially when you add all that anti-virus nonsense.

I just got four of the 10" for £135 each (about $200). They run Xandros Linux and are excellent for most computer users - you can browse web pages, write and receive email and type documents with just the basic supplied software. Performance is amazingly quick, and you don't need to worry about viruses. There are lots of ham radio programs available free on the 'net for them...

Bob

From -3616544653054920107
X-Google-Thread: fc2a5,a3b5f257261f01af,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
feeder.erje.net!feeder1.news.weretis.net!newsfeeder.dynfx.net!weretis.net!
feeder.news-service.com!news.astraweb.com!newsrouter-eu.astraweb.com!proxad.net!
cleanfeed2-b.proxad.net!nnrp9-2.free.fr!not-for-mail
From: "Renaud" <renauctv@free.fr>
Newsgroups: rec.radio.amateur.homebrew
Subject: ADONIS AM 808G mocrophone
Date: Tue, 11 Nov 2008 11:15:10 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 081110-1, 10/11/2008), Outbound message
X-Antivirus-Status: Clean
Lines: 4
Message-ID: <49195b2e$0$850$426a74cc@news.free.fr>
Organization: Guest of ProXad - France
NNTP-Posting-Date: 11 Nov 2008 11:15:10 MET
NNTP-Posting-Host: 88.166.61.166
X-Trace: 1226398510 news-2.free.fr 850 88.166.61.166:1952
X-Complaints-To: abuse@proxad.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:1127

an anyone help with service manual (schematic/ ....) for this, please?
Thanks for all - 73 Renaud

```
From -1079729454757700604
X-Google-Thread: fc2a5,4da60416ef44f0c4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!i20g2000prf.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Article about a portable PC that runs on 12v?
Date: Tue, 11 Nov 2008 09:30:06 -0800 (PST)
Organization: http://groups.google.com
Lines: 37
Message-ID: <b825958f-871c-49e2-9067-81f9a4ead046@i20g2000prf.googlegroups.com>
References: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com>
     <tN6dnTLjt9YZNoXUnZ2dneKdnZydnZ2d@pipex.net> <90853ff4-
a29e-4167-900c-77583682f7f0@l33g2000pri.googlegroups.com>
     <6ns6alFl5pmU1@mid.individual.net>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1226424606 5547 127.0.0.1 (11 Nov 2008 17:30:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 11 Nov 2008 17:30:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i20g2000prf.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3579

On Nov 10, 8:43=A0pm, Bob <biasco...@invalid.inv> wrote:
> JIMMIE wrote:
> > They are a great little PC at a GREAT price. They are not selling so
> > hot,
>
> They might not be selling where you live, but over here in the UK the sho=
ps
> can't get enough of them. =A0The Linux ones are outselling the XP ones by=
 a
> factor of 4 to 1 - partly because of the price, and partly because the
> performance with XP is pretty bad, especially when you add all that
> anti-virus nonsense.
>
> I just got four of the 10" for =A3135 each (about $200). =A0They run Xand=
ros Linux
```

```
> and are excellent for most computer users - you can browse web pages, wri=
te
> and receive email and type documents with just the basic supplied softwar=
e.
> Performance is amazingly quick, and you don't need to worry about viruses=
.
> There are lots of ham radio programs available free on the 'net for them.=
..
>
> Bob

I know I dont have a problem with Linux either but casual users here
in the
states are afraid of it. I use Linux or various versions daily at work
and love
it. They are selling for about $270 here in the states. Still a
bargain. I was in
the process of building a car PC but that project ended when I found
net-
books.

Jimmie


From -8813058838850399847
X-Google-Thread: fc2a5,4da60416ef44f0c4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 11 Nov 2008 15:30:15 -0600
Date: Tue, 11 Nov 2008 21:31:23 +0000
From: highlandham <rfburns@nospam.sco>
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Article about a portable PC that runs on 12v?
References: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com>
In-Reply-To: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <v86dndH_2Pr6ZITUnZ2dnUVZ8uydnZ2d@pipex.net>
Lines: 12
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 83.147.186.30
X-Trace: sv3-
B5kPOHAjgVY+6PE7J0CuZVJovZdkxCFudgGf0rJpPb4TUmHnV87hfEK1e1xRg2VDE5FbkGhpNkexVJT!
3anBgIoOiVHiWpfZSMZPKCnQQNckr4En4DLfY3pHvcNOla2muP8U+Pcr9sxS16j6D61HYJQhlVhv!HR/
A6inJZOjAXWN0Ltp5yVmp6Q==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
```

X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1129

KC7PM wrote:
> I saw something in the last year or two about building a PC that runs
> entirely on 12V and with low power consumption. Does anyone know on 1.6
> where I can find that article or website?
===
The new generationn of mini-laptops like Asus eeePC and I believe also
the similar devices from Acer and Dell run on 12 V -DC
They all use a Pentium Atom N270 processor

Frank   GM0CSZ / KN6WH

PS:I am happy with the ASUS eeePC

From 1108080419523071251
X-Google-Thread: fc2a5,4da60416ef44f0c4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Article about a portable PC that runs on 12v?
Date: Wed, 12 Nov 2008 00:24:01 +0000
Organization: Bias Comms
Lines: 23
Message-ID: <6num1sF10ncjU1@mid.individual.net>
References: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com> <tN6dnTLjt9YZNoXUnZ2dneKdnZydnZ2d@pipex.net> <90853ff4-a29e-4167-900c-77583682f7f0@l33g2000pri.googlegroups.com> <6ns6alFl5pmU1@mid.individual.net> <b825958f-871c-49e2-9067-81f9a4ead046@i20g2000prf.googlegroups.com>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net aBSOnWTOdqJSfIh/TwC/VQfHNFXUjEEStvltX8HfeonDY8eyp9
Cancel-Lock: sha1:FyBWQhmywgO1ANfWjI72s/4I4Eo=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3581

JIMMIE wrote:

> I know I dont have a problem with Linux either but casual users here
> in the states are afraid of it. I use Linux or various versions daily
> at work and love it. They are selling for about $270 here in the states.
> Still a bargain. I was in the process of building a car PC but that

> project ended when I found net-books.

I can't understand the reluctance of the Americans to use Linux. There has been no real reason to use Windows for a long time (unless you want to play games, but a PS3 is best for that). Over here in Europe, Linux uptake continues rapidly - as each new Windows virus or worm hits, ever more people and businesses migrate.

The last time I entered the 'States, the Customs guy demanded to look at my laptop, and see that it would actually work and that I wasn't importing a bomb. I started it up, and got my very pretty 3D Gnome desktop up, and he asked me what it was. I then got a lecture about how it was "un-American" and "Commie" not to use Windows! The fact that I am a Brit, and that Fedora (my usual distro of choice) is American, entirely passed him by...

Bob

From -3825389803243018032
X-Google-Thread: fc2a5,2a05b9acf3aa71,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news6
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Homebrew breadboard xmtr
Date: Wed, 12 Nov 2008 00:35:04 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 36
Message-ID: <gfdmdq01f4h@news6.newsguy.com>
NNTP-Posting-Host: p18a336aa9ba0313aec340413a2eaa4ed89bf1970b83ca306.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3582

Hi,
I've gotten far enough along with this project to where I'm ready to toss it out for public scrutiny, so have at me, guys.

I'm a receiver guy - never built a tube transmitter from scratch and this is my first go. My goals were, in no particular order, to build something with a early 30s breadboard look, xtal control, 40/20 meters primarily - 80/30 as bonus, moderate power for getting on the air barefoot while not overpowering a future amp idea...and of course using accessible parts.

This is sort of my compilation of ideas from old QST articles. Robbed ideas from this and that to make them fit. I made some major boo-boos at first but I think I finally have them sorted out. Something that dawned on me a little bit slowly is that none of those old xmtrs were set up to operate 40 meters with a 7 Mc xtal. Much of the emphasis was on double this/double that. Nowadays we have 7 and 14 Mc fundamental xtals abounding so I went the route of reinventing the wheel so to speak.

The rig is working at this stage...at least straight thru on 40. Waiting for some other bits and bobs to carry on to other bands. The note sounds good and its nothing I'm reluctant to put on the air. On the other hand its a massive amount of wood and metal for a measly 5 or 6 watts :) A little slatboard 6V6 chirper would have been much easier.

Anyway, I'm not a veteran with old xmtrs so I'm putting it out for comments, questions, critiques, etc. Flame suit is handy!

Schematic:
http://i132.photobucket.com/albums/q18/billynaty/1stXmtr/schema111108.jpg

View:
http://i132.photobucket.com/albums/q18/billynaty/1stXmtr/Dscf1436.jpg

-Bill WX4A/KP4

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From -8024116861567272538
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X-Google-Attributes:
gid108122,gidfc2a5,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i18g2000prf.googlegroups.com!not-for-
mail
From: tyreemand@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: porn trailers
Date: Wed, 12 Nov 2008 04:46:54 -0800 (PST)
Organization: http://groups.google.com
Lines: 3
Message-ID: <d9d49dd6-a634-43ec-a943-80b5074ff0ce@i18g2000prf.googlegroups.com>
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Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 12 Nov 2008 12:46:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i18g2000prf.googlegroups.com; posting-host=92.112.154.58;
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:833
rec.radio.amateur.homebrew:1132 rec.radio.amateur.misc:1548 rec.running:5057
rec.scouting.issues:941
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porn trailers http://pupir.byethost9.com/bdsm.htm porn videos
http://pupir.byethost9.com/hardcore.htm free homemade porn
http://pupir.byethost9.com/lesbi.htm hardcore porn http://pupir.byethost9.com/amateur.htm

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From 8211455019269539358
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 12 Nov 2008 07:01:58 -0600
Date: Wed, 12 Nov 2008 13:01:57 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew breadboard xmtr
References: <gfdmdq01f4h@news6.newsguy.com>
In-Reply-To: <gfdmdq01f4h@news6.newsguy.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <a_Odna2I3-9bTofUnZ2dnUVZ_qPinZ2d@bright.net>
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ikp+r2l034NvYIJfPUAPPUrisnfyin+PN!kYdZ5QuN1w==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3584
```

exray wrote:

> Hi,
> I've gotten far enough along with this project to where I'm ready to

> toss it out for public scrutiny, so have at me, guys.
>
> I'm a receiver guy - never built a tube transmitter from scratch and this is my first go. My goals were, in no particular order, to build something with a early 30s breadboard look, xtal control, 40/20 meters primarily - 80/30 as bonus, moderate power for getting on the air barefoot while not overpowering a future amp idea...and of course using accessible parts.
>
> This is sort of my compilation of ideas from old QST articles. Robbed ideas from this and that to make them fit. I made some major boo-boos at first but I think I finally have them sorted out. Something that dawned on me a little bit slowly is that none of those old xmtrs were set up to operate 40 meters with a 7 Mc xtal. Much of the emphasis was on double this/double that. Nowadays we have 7 and 14 Mc fundamental xtals abounding so I went the route of reinventing the wheel so to speak.
>
> The rig is working at this stage...at least straight thru on 40. Waiting for some other bits and bobs to carry on to other bands. The note sounds good and its nothing I'm reluctant to put on the air. On the other hand its a massive amount of wood and metal for a measly 5 or 6 watts :) A little slatboard 6V6 chirper would have been much easier.
>
> Anyway, I'm not a veteran with old xmtrs so I'm putting it out for comments, questions, critiques, etc. Flame suit is handy!
>
> Schematic:
> http://i132.photobucket.com/albums/q18/billynaty/1stXmtr/schema111108.jpg
>
> View:
> http://i132.photobucket.com/albums/q18/billynaty/1stXmtr/Dscf1436.jpg
>
>
> -Bill WX4A/KP4

Looks SUPER COOL! How's the harmonics? Did you use any external low pass filter? Spectrum analyzer trace available?

Keep playing with it! Looks like a neat little project!

Scott
N0EDV

From -2019692041565537088
X-Google-Thread: fc2a5,2a05b9acf3aa71
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news7
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Homebrew breadboard xmtr
Date: Wed, 12 Nov 2008 10:26:33 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 11
Message-ID: <gfep2r02p4l@news7.newsguy.com>
References: <gfdmdq01f4h@news6.newsguy.com>
<a_Odna2I3-9bTofUnZ2dnUVZ_qPinZ2d@bright.net>
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User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <a_Odna2I3-9bTofUnZ2dnUVZ_qPinZ2d@bright.net>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1134

Scott wrote:

>
> Looks SUPER COOL! How's the harmonics? Did you use any external low
> pass filter? Spectrum analyzer trace available?

Thanks. No I can't answer any of the harmonic issues. My closest
neighbor is still an antenna-bound tv viewer and she doesn't report any
interference...which was on my list of goals as well. It has been a
limiting factor in the past.
-Bill

From -24746235851652758
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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nntp.posted.cpinternet!news.posted.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 12 Nov 2008 10:05:54 -0600
Date: Wed, 12 Nov 2008 10:07:14 -0600
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew breadboard xmtr
References: <gfdmdq01f4h@news6.newsguy.com>
In-Reply-To: <gfdmdq01f4h@news6.newsguy.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
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X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1135

exray wrote:

<snip>

> Anyway, I'm not a veteran with old xmtrs so I'm putting it out for
> comments, questions, critiques, etc.

<snip>

Beautiful! Would you consider a breadboarded arc or spark xmitter
for your next project? Some years ago I did one using the obligatory
Model T spark coil, on 80m, that lit up a 12W bulb dummy load quite
brightly.

Michael

From -2553641991720764927
X-Google-Thread: fc2a5,2a05b9acf3aa71
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news5
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew breadboard xmtr
Date: Wed, 12 Nov 2008 12:13:18 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 20
Message-ID: <gfevau0hje@news5.newsguy.com>
References: <gfdmdq01f4h@news6.newsguy.com>
<3dKdnYOWkdl_Y4fUnZ2dnUVZ_gadnZ2d@posted.cpinternet>
NNTP-Posting-Host: pf16a21837e02e13bace097d72517da2b52447cc61e104bfa.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <3dKdnYOWkdl_Y4fUnZ2dnUVZ_gadnZ2d@posted.cpinternet>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1136

msg wrote:
> exray wrote:

>
> <snip>
>
>> Anyway, I'm not a veteran with old xmtrs so I'm putting it out for
>> comments, questions, critiques, etc.
>
> <snip>
>
> Beautiful! Would you consider a breadboarded arc or spark xmitter
> for your next project? Some years ago I did one using the obligatory
> Model T spark coil, on 80m, that lit up a 12W bulb dummy load quite
> brightly.
>
> Michael

Hehe, I don't think they would allow me on the air with that :)

-Bill

From 3433281491324839255
X-Google-Thread: fc2a5,2a05b9acf3aa71
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe01.iad.POSTED!7564ea0f!not-for-mail
From: Bill Janssen <billj@ieee.org>
Reply-To: billjNOT_THIS@ieee.org
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew breadboard xmtr
References: <gfdmdq01f4h@news6.newsguy.com>
In-Reply-To: <gfdmdq01f4h@news6.newsguy.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 47
Message-ID: <QxDSk.4348$Gm3.3762@newsfe01.iad>
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NNTP-Posting-Date: Wed, 12 Nov 2008 16:31:44 UTC
Organization: Frontier
Date: Wed, 12 Nov 2008 08:32:31 -0800
Xref: g2news2.google.com rec.radio.amateur.homebrew:3588

Looks good, no, very good. Better than my home made transmitters.

On the schematic, you missed a strap on the doubler coil. The ground pin should be connected to the nearby "coil" pin. I didn't go over the schematic in detail but I was interested in how you connected the doubler coil.

Bill K7NOM

exray wrote:
> Hi,
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> toss it out for public scrutiny, so have at me, guys.
>
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> set up to operate 40 meters with a 7 Mc xtal. Much of the emphasis
> was on double this/double that. Nowadays we have 7 and 14 Mc
> fundamental xtals abounding so I went the route of reinventing the
> wheel so to speak.
>
> The rig is working at this stage...at least straight thru on 40.
> Waiting for some other bits and bobs to carry on to other bands. The
> note sounds good and its nothing I'm reluctant to put on the air. On
> the other hand its a massive amount of wood and metal for a measly 5
> or 6 watts :) A little slatboard 6V6 chirper would have been much
> easier.
>
> Anyway, I'm not a veteran with old xmtrs so I'm putting it out for
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>
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> http://i132.photobucket.com/albums/q18/billynaty/1stXmtr/schema111108.jpg
>
> View:
> http://i132.photobucket.com/albums/q18/billynaty/1stXmtr/Dscf1436.jpg
>
>
> -Bill WX4A/KP4

From -8544754092152825909
X-Google-Thread: fc2a5,2a05b9acf3aa71
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!spln!extra.newsguy.com!newsp.newsguy.com!
news3
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew breadboard xmtr
Date: Wed, 12 Nov 2008 12:41:19 -0400
Organization: NewsGuy - Unlimited Usenet $19.95

Lines: 13
Message-ID: <gff0vg0kmm@news3.newsguy.com>
References: <gfdmdq01f4h@news6.newsguy.com> <QxDSk.4348$Gm3.3762@newsfe01.iad>
NNTP-Posting-Host: p24d1bfbfff00000073b1290e905b03f4f4edcc2ec7af5129.newsdawg.com
Mime-Version: 1.0
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In-Reply-To: <QxDSk.4348$Gm3.3762@newsfe01.iad>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3589

Bill Janssen wrote:
> Looks good, no, very good. Better than my home made transmitters.
>
> On the schematic, you missed a strap on the doubler coil. The ground pin
> should be connected to the nearby "coil" pin. I didn't go over the
> schematic in detail but I was interested in how you connected the
> doubler coil.
>
> Bill K7NOM

Good eye. I'll make the correction on the drawing. Thanks.

Bill WX4A

From 4678631337041360528
X-Google-Thread: fc2a5,2a05b9acf3aa71
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.cpinternet!news.posted.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 12 Nov 2008 10:43:29 -0600
Date: Wed, 12 Nov 2008 10:44:49 -0600
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew breadboard xmtr
References: <gfdmdq01f4h@news6.newsguy.com> <QxDSk.4348$Gm3.3762@newsfe01.iad>
<gff0vg0kmm@news3.newsguy.com>
In-Reply-To: <gff0vg0kmm@news3.newsguy.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <09mdnUUad6IsmobUnZ2dnUVZ_vudnZ2d@posted.cpinternet>
Lines: 22
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NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-5bTECWUg+NImaVnMuDcTM33cK4ggBAj1Sxw4aari6qg2XiKUvM19mmEe06lsLBf/
+QnAFI6xNMz5kw/!

4tvnHm4z3oKNEKyAzm7zYqq9kaTSgafrRRb7V7NYn1tNw1WdD+z0OJtMLwkeU4uleXfKqmdS4bCS!
rqlLoSg7C+n0OSZtyBH5Gw==
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3590

exray wrote:

> Bill Janssen wrote:
>
>> Looks good, no, very good. Better than my home made transmitters.
>>
>> On the schematic, you missed a strap on the doubler coil. The ground
>> pin should be connected to the nearby "coil" pin. I didn't go over the
>> schematic in detail but I was interested in how you connected the
>> doubler coil.
>>
>> Bill K7NOM
>
>
> Good eye. I'll make the correction on the drawing. Thanks.
>
> Bill WX4A

Just a matter of taste of course, but I find that using dots on wire connects, even with the use of arced cross-overs, improves readability ;)

Michael

From -6399549087998931643
X-Google-Thread: fc2a5,2a05b9acf3aa71
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!spln!extra.newsguy.com!newsp.newsguy.com!news3
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew breadboard xmtr
Date: Wed, 12 Nov 2008 12:56:17 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 12
Message-ID: <gff1ri0lsc@news3.newsguy.com>
References: <gfdmdq01f4h@news6.newsguy.com> <QxDSk.4348$Gm3.3762@newsfe01.iad>
<gff0vg0kmm@news3.newsguy.com>
<09mdnUUad6IsmobUnZ2dnUVZ_vudnZ2d@posted.cpinternet>
NNTP-Posting-Host: p24d1bfbfff00000073b1290e905b03f4f4edcc2ec7af5129.newsdawg.com
Mime-Version: 1.0

```
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <09mdnUUad6IsmobUnZ2dnUVZ_vudnZ2d@posted.cpinternet>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3591
X-Original-Bytes: 1152

msg wrote:

>
> Just a matter of taste of course, but I find that using dots on wire
> connects, even with the use of arced cross-overs, improves readability ;)
>
> Michael


Ok, dots-r-us.  Revised.

Bill



From 5271397589855174699
X-Google-Thread: fc2a5,4da60416ef44f0c4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!199.45.49.37!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com>
<tN6dnTLjt9YZNoXUnZ2dneKdnZydnZ2d@pipex.net> <90853ff4-
a29e-4167-900c-77583682f7f0@l33g2000pri.googlegroups.com>
<6ns6alFl5pmU1@mid.individual.net>
<b825958f-871c-49e2-9067-81f9a4ead046@i20g2000prf.googlegroups.com>
<6num1sF10ncjU1@mid.individual.net>
Subject: Re: Article about a portable PC that runs on 12v?
Lines: 43
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <QXDSk.36$4g5.6@nwrddc01.gnilink.net>
Date: Wed, 12 Nov 2008 16:59:28 GMT
NNTP-Posting-Host: 71.110.235.149
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1226509168 71.110.235.149 (Wed, 12 Nov 2008 11:59:28
```

EST)
NNTP-Posting-Date: Wed, 12 Nov 2008 11:59:28 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:3592

"Bob" <biascomms@invalid.inv> wrote in message
news:6num1sF10ncjU1@mid.individual.net...
> JIMMIE wrote:
>
> > I know I dont have a problem with Linux either but casual users here
> > in the states are afraid of it. I use Linux or various versions daily
> > at work and love it. They are selling for about $270 here in the states.
> > Still a bargain. I was in the process of building a car PC but that
> > project ended when I found net-books.
>
> I can't understand the reluctance of the Americans to use Linux. There
has
> been no real reason to use Windows for a long time (unless you want to
play
> games, but a PS3 is best for that). Over here in Europe, Linux uptake
> continues rapidly - as each new Windows virus or worm hits, ever more
people
> and businesses migrate.
>
> The last time I entered the 'States, the Customs guy demanded to look at
my
> laptop, and see that it would actually work and that I wasn't importing a
> bomb. I started it up, and got my very pretty 3D Gnome desktop up, and he
> asked me what it was. I then got a lecture about how it was "un-American"
> and "Commie" not to use Windows! The fact that I am a Brit, and that
Fedora
> (my usual distro of choice) is American, entirely passed him by...
>
> Bob
>
Obviously just joking with you. Comedy is often a stress releiver. Apple
is the one with the Soviet corprorate model.

Many of the laptops will operate well at 13.8 if you disable all the alerts
and auto shutdown features. You also need to remove the battery so that it
won't run it down. Some will get goofed up thinking there is a shorted
battery though. I used to run my old Panasonic on 12v direct to the battery
input terminals without incident.

I have an APC TravelPower adapter which claims to pull 10 amps at 11-16 v
input. for 3.6 amps at 18v. Ouch! A small msw 120v inverter seems to be a
lot more efficient than that.

From 9011963615352442563
X-Google-Thread: fc2a5,4da60416ef44f0c4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII

```
Path: g2news1.google.com!postnews.google.com!a17g2000prm.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Article about a portable PC that runs on 12v?
Date: Wed, 12 Nov 2008 13:22:35 -0800 (PST)
Organization: http://groups.google.com
Lines: 65
Message-ID: <c2347491-b604-46ed-b3e7-5ee83d01bcc7@a17g2000prm.googlegroups.com>
References: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com>
     <tN6dnTLjt9YZNoXUnZ2dneKdnZydnZ2d@pipex.net> <90853ff4-
a29e-4167-900c-77583682f7f0@l33g2000pri.googlegroups.com>
     <6ns6alFl5pmU1@mid.individual.net>
<b825958f-871c-49e2-9067-81f9a4ead046@i20g2000prf.googlegroups.com>
     <6num1sF10ncjU1@mid.individual.net> <QXDSk.36$4g5.6@nwrddc01.gnilink.net>
NNTP-Posting-Host: 155.178.4.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1226524956 11211 127.0.0.1 (12 Nov 2008 21:22:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 12 Nov 2008 21:22:36 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a17g2000prm.googlegroups.com; posting-host=155.178.4.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1142

On Nov 12, 11:59=A0am, "JB" <nos...@goofball.net> wrote:
> "Bob" <biasco...@invalid.inv> wrote in message
>
> news:6num1sF10ncjU1@mid.individual.net...
>
>
>
> > JIMMIE wrote:
>
> > > I know I dont have a problem with Linux either but casual users here
> > > in the states are afraid of it. I use Linux or various versions daily
> > > at work and love it. They are selling for about $270 here in the stat=
es.
> > > Still a bargain. I was in the process of building a car PC but that
> > > project ended when I found net-books.
>
> > I can't understand the reluctance of the Americans to use Linux. =A0The=
re
> has
> > been no real reason to use Windows for a long time (unless you want to
> play
> > games, but a PS3 is best for that). =A0Over here in Europe, Linux uptak=
e
```

> > continues rapidly - as each new Windows virus or worm hits, ever more
> people
> > and businesses migrate.
>
> > The last time I entered the 'States, the Customs guy demanded to look a=
t
> my
> > laptop, and see that it would actually work and that I wasn't importing=
 a
> > bomb. =A0I started it up, and got my very pretty 3D Gnome desktop up, a=
nd he
> > asked me what it was. =A0I then got a lecture about how it was "un-Amer=
ican"
> > and "Commie" not to use Windows! =A0The fact that I am a Brit, and that
> Fedora
> > (my usual distro of choice) is American, entirely passed him by...
>
> > Bob
>
> Obviously just joking with you. =A0Comedy is often a stress releiver. =A0=
Apple
> is the one with the Soviet corprorate model.
>
> Many of the laptops will operate well at 13.8 if you disable all the aler=
ts
> and auto shutdown features. =A0You also need to remove the battery so tha=
t it
> won't run it down. =A0Some will get goofed up thinking there is a shorted
> battery though. =A0I used to run my old Panasonic on 12v direct to the ba=
ttery
> input terminals without incident.
>
> I have an APC TravelPower adapter which claims to pull 10 amps at 11-16 v
> input. =A0for 3.6 amps at 18v. =A0Ouch! =A0A small msw 120v inverter seem=
s to be a
> lot more efficient than that.- Hide quoted text -
>
> - Show quoted text -

I have a little APC UPS that I use with vehicle battery in my RV.

Jimmie

From -4480429554987822O3
X-Google-Thread: fc2a5,4da60416ef44f0c4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news4
From: Dan Richardson <k6mhe@k6mhe.com>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Article about a portable PC that runs on 12v?
Date: Wed, 12 Nov 2008 14:32:40 -0800
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 24
Message-ID: <celmh4h2mkhfbiq9a36pmek558j5k4k30p@4ax.com>
References: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com>
<tN6dnTLjt9YZNoXUnZ2dneKdnZydnZ2d@pipex.net> <90853ff4-
a29e-4167-900c-77583682f7f0@l33g2000pri.googlegroups.com>
<6ns6alFl5pmU1@mid.individual.net>
<b825958f-871c-49e2-9067-81f9a4ead046@i20g2000prf.googlegroups.com>
<6num1sF10ncjU1@mid.individual.net>
NNTP-Posting-Host: p94d1bfbfff00000024c2bc81bad62f2a06d8d1c51bfa214b.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Newsreader: Forte Agent 1.93/32.576 English (American)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1143

On Wed, 12 Nov 2008 00:24:01 +0000, Bob <biascomms@invalid.inv> wrote:

> can't understand the reluctance of the Americans to use Linux. There has
>been no real reason to use Windows for a long time (unless you want to play
>games, but a PS3 is best for that). Over here in Europe, Linux uptake
>continues rapidly - as each new Windows virus or worm hits, ever more people
>and businesses migrate.

Maybe it is because it can be very difficult, if not impossible, to find necessary hardware drivers. Especially, if you have some of the latest equipment models. I have found Linux to be more useful on older computers as one is much more likely to find the necessary drivers.

For example have recently added a new HP all-in-one laser printer that includes a scanner and FAX. I have it installed on a dual boot (Linux/Windows XP) system. While I'm able to print with the Linux system good luck trying to get the scanner and FAX working. That's just one example. I have a litany of them.

Regards,
Danny

From -3151708777796853503
X-Google-Thread: fc2a5,4da60416ef44f0c4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Article about a portable PC that runs on 12v?

Date: Thu, 13 Nov 2008 00:18:40 +0000
Organization: Bias Comms
Lines: 32
Message-ID: <6o1a3rF1cileU2@mid.individual.net>
References: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com>
<tN6dnTLjt9YZNoXUnZ2dneKdnZydnZ2d@pipex.net> <90853ff4-
a29e-4167-900c-77583682f7f0@l33g2000pri.googlegroups.com>
<6ns6alFl5pmU1@mid.individual.net>
<b825958f-871c-49e2-9067-81f9a4ead046@i20g2000prf.googlegroups.com>
<6num1sF10ncjU1@mid.individual.net> <celmh4h2mkhfbiq9a36pmek558j5k4k30p@4ax.com>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net Lx4wVm/S52ZGXyey0LC6wAEQ6FaxBZ/p7YEZV1MTiEg0TSO1GL
Cancel-Lock: sha1:xxIKjr37zdgeWG8K9EEDX/5diJ8=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3595

Dan Richardson wrote:

> On Wed, 12 Nov 2008 00:24:01 +0000, Bob <biascomms@invalid.inv> wrote:
>
>> can't understand the reluctance of the Americans to use Linux. There has
>>been no real reason to use Windows for a long time (unless you want to play
>>games, but a PS3 is best for that). Over here in Europe, Linux uptake
>>continues rapidly - as each new Windows virus or worm hits, ever more people
>>and businesses migrate.
>
> Maybe it is because it can be very difficult, if not impossible, to
> find necessary hardware drivers. Especially, if you have some of the
> latest equipment models. I have found Linux to be more useful on older
> computers as one is much more likely to find the necessary drivers.
>
> For example have recently added a new HP all-in-one laser printer that
> includes a scanner and FAX. I have it installed on a dual boot
> (Linux/Windows XP) system. While I'm able to print with the Linux
> system good luck trying to get the scanner and FAX working. That's
> just one example. I have a litany of them.

Funnily enough, I have much the same, but found that HPLip handled printing
perfectly, and Xsane handled scanning. Hylafax also works very effectively.
No difficult installation or configuration required with the /very/ latest
hardware - modern Linux distros have all that pretty much licked!

Just don't buy Canon or Lexmark gear - both companies /actively/ /discourage/
the development of Linux drivers.

Bob

From 8558365249729314614
X-Google-Thread: fc2a5,2a05b9acf3aa71
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!flpi089.ffdc.sbc.com!prodigy.net!
flpi088.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!nlpi061.nbdc.sbc.com.POSTED!
34b04584!not-for-mail
From: "998cc" <hrd998cc@yahooo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <gfdmdq01f4h@news6.newsguy.com>
Subject: Re: Homebrew breadboard xmtr
Lines: 46
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <J2NSk.7623$be.1980@nlpi061.nbdc.sbc.com>
NNTP-Posting-Host: 69.111.104.32
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi061.nbdc.sbc.com 1226546473 ST000 69.111.104.32 (Wed, 12 Nov 2008
22:21:13 EST)
NNTP-Posting-Date: Wed, 12 Nov 2008 22:21:13 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
[[PAPDCAOPRYS_D[@BJNOWTDFZ\@@FXLM@TDOCQDJ@_@FNXACNVOPCWZBL[\YUWHANGYZEFNHFZPNLOBUN
SS^_LGEVWEY\PHO@YJSSWBBDT\PFD^ESBTXVCCMTD]JCJLE_IJMFNRY]SWE[S[D_CNB__ZK^VGVCKHA[S
@COB^[@ZQSDFQ\BPMS@DZVUKQTJL
Date: Wed, 12 Nov 2008 19:18:41 -0800
Xref: g2news1.google.com rec.radio.amateur.homebrew:1145

Super job, Bill!!
Who cares if it only does a couple of watts, it's beautiful!! I have a
replica 1933 TPTG transmitter that is surface mount, wood base. (built by
another ham--nice job as well).

73. Russ W6OHM

"exray" <radioexray@geeemail.com> wrote in message
news:gfdmdq01f4h@news6.newsguy.com...
> Hi,
> I've gotten far enough along with this project to where I'm ready to toss
> it out for public scrutiny, so have at me, guys.
>
> I'm a receiver guy - never built a tube transmitter from scratch and this
> is my first go. My goals were, in no particular order, to build something
> with a early 30s breadboard look, xtal control, 40/20 meters primarily -
> 80/30 as bonus, moderate power for getting on the air barefoot while not
> overpowering a future amp idea...and of course using accessible parts.
>
> This is sort of my compilation of ideas from old QST articles. Robbed

> ideas from this and that to make them fit. I made some major boo-boos at
> first but I think I finally have them sorted out. Something that dawned
> on me a little bit slowly is that none of those old xmtrs were set up to
> operate 40 meters with a 7 Mc xtal. Much of the emphasis was on double
> this/double that. Nowadays we have 7 and 14 Mc fundamental xtals
> abounding so I went the route of reinventing the wheel so to speak.
>
> The rig is working at this stage...at least straight thru on 40. Waiting
> for some other bits and bobs to carry on to other bands. The note sounds
> good and its nothing I'm reluctant to put on the air. On the other hand
> its a massive amount of wood and metal for a measly 5 or 6 watts :) A
> little slatboard 6V6 chirper would have been much easier.
>
> Anyway, I'm not a veteran with old xmtrs so I'm putting it out for
> comments, questions, critiques, etc. Flame suit is handy!
>
> Schematic:
> http://i132.photobucket.com/albums/q18/billynaty/1stXmtr/schema111108.jpg
>
> View:
> http://i132.photobucket.com/albums/q18/billynaty/1stXmtr/Dscf1436.jpg
>
>
> -Bill WX4A/KP4

```
From -2478571578593762180
X-Google-Thread: fc2a5,2a05b9acf3aa71
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad.newshosting.com!newshosting.com!novia!
feed.news.qwest.net!mpls-nntp-06.inet.qwest.net!news.qwest.net!not-for-mail
Date: Wed, 12 Nov 2008 21:43:11 -0800
From: PhattyMo <phattymo@not.net>
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew breadboard xmtr
References: <gfdmdq01f4h@news6.newsguy.com>
In-Reply-To: <gfdmdq01f4h@news6.newsguy.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 40
Message-ID: <491bbe5a$0$87065$815e3792@news.qwest.net>
Organization: Qwest Communications Corporation
NNTP-Posting-Host: 1f0c017e.news.qwest.net
X-Trace: DXC=R3okOEa`Uh_IJ_h7`cEFjRF85SKJoGf>TFX;o3OR;S<THfQ1a503Y0\F85SKJoGf>T?
I^_`>3Hm5YdaEl;Pl6m4WNm\SkGINiAY
X-Complaints-To: news@qwest.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:1146
```

Nice work! Very nice!

exray wrote:
> Hi,
> I've gotten far enough along with this project to where I'm ready to
> toss it out for public scrutiny, so have at me, guys.
>
> I'm a receiver guy - never built a tube transmitter from scratch and
> this is my first go. My goals were, in no particular order, to build
> something with a early 30s breadboard look, xtal control, 40/20 meters
> primarily - 80/30 as bonus, moderate power for getting on the air
> barefoot while not overpowering a future amp idea...and of course using
> accessible parts.
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> at first but I think I finally have them sorted out. Something that
> dawned on me a little bit slowly is that none of those old xmtrs were
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> on double this/double that. Nowadays we have 7 and 14 Mc fundamental
> xtals abounding so I went the route of reinventing the wheel so to speak.
>
> The rig is working at this stage...at least straight thru on 40. Waiting
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> other hand its a massive amount of wood and metal for a measly 5 or 6
> watts :) A little slatboard 6V6 chirper would have been much easier.
>
> Anyway, I'm not a veteran with old xmtrs so I'm putting it out for
> comments, questions, critiques, etc. Flame suit is handy!
>
> Schematic:
> http://i132.photobucket.com/albums/q18/billynaty/1stXmtr/schema111108.jpg
>
> View:
> http://i132.photobucket.com/albums/q18/billynaty/1stXmtr/Dscf1436.jpg
>
>
> -Bill WX4A/KP4

```
From -5245274368913463521
X-Google-Thread: fc2a5,2a05b9acf3aa71
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2!news-
out.octanews.net!indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Homebrew breadboard xmtr
Date: Thu, 13 Nov 2008 00:13:18 -0800
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
```

```
Message-Id: <pan.2008.11.13.08.13.18.967471@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <gfdmdq01f4h@news6.newsguy.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 5
Organization: Octanews
NNTP-Posting-Date: 13 Nov 2008 02:13:40 CST
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:1147

Wow!

Superb indeed!
--
Gregg


From -6468961604272829346
X-Google-Thread: 108122,d494437cb16e98bc,start
X-Google-Thread: fc2a5,d494437cb16e98bc,start
X-Google-Thread: 107ada,d494437cb16e98bc,start
X-Google-Thread: 110c99,d494437cb16e98bc,start
X-Google-Thread: 111320,d494437cb16e98bc,start
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!40g2000prx.googlegroups.com!not-for-
mail
From: tyreemand@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: Over 80,000 images of beautiful busty women
Date: Thu, 13 Nov 2008 02:57:56 -0800 (PST)
Organization: http://groups.google.com
Lines: 4
Message-ID: <b0e08dac-e21e-465e-9fe0-668b8cf46b63@40g2000prx.googlegroups.com>
NNTP-Posting-Host: 92.112.210.73
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1226573877 29550 127.0.0.1 (13 Nov 2008 10:57:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 13 Nov 2008 10:57:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 40g2000prx.googlegroups.com; posting-host=92.112.210.73;
     posting-account=8N4mVgoAAABmLLkJQvSeZsuS_r9oM6nG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:837
rec.radio.amateur.homebrew:1148 rec.radio.amateur.misc:1550 rec.running:5068
rec.scouting.issues:942

http://dunny.withsex.com/ Home of the worlds most downloaded woman,
Danni Ashe. Over 80,000 images of beautiful busty women, nude images,
centerfolds, and porn stars. Original video features, live video
feeds, daily updates.


From -1249991540352759465
X-Google-Thread: fc2a5,2a05b9acf3aa71
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news6
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew breadboard xmtr
Date: Thu, 13 Nov 2008 07:20:21 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 9
Message-ID: <gfh2hn0juu@news6.newsguy.com>
References: <gfdmdq01f4h@news6.newsguy.com>
<pan.2008.11.13.08.13.18.967471@localhost.localdomain>
NNTP-Posting-Host: p02430a804c7d5859e139f46fbb729178bb68e41dd95e4d79.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <pan.2008.11.13.08.13.18.967471@localhost.localdomain>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1149

geek wrote:
> Wow!
>
> Superb indeed!
> __
> Gregg

Thanks guys.
-Bill


From -8392307058129503897
X-Google-Thread: fc2a5,c642c69e8cf197c5,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!f37g2000pri.googlegroups.com!not-for-
mail
From: Ross Tucker <rjtucke@gmail.com>
```

Newsgroups: rec.radio.amateur.homebrew
Subject: mechanical coil switching of two coils`
Date: Thu, 13 Nov 2008 09:26:21 -0800 (PST)
Organization: http://groups.google.com
Lines: 16
Message-ID: <36e541e1-2127-4496-85b9-910b9f44f594@f37g2000pri.googlegroups.com>
NNTP-Posting-Host: 98.174.202.187
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1226597181 30811 127.0.0.1 (13 Nov 2008 17:26:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 13 Nov 2008 17:26:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f37g2000pri.googlegroups.com; posting-host=98.174.202.187;
posting-account=dcJvXgoAAABRlhSfOMmtMBXWf-dUgzU6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.3)
Gecko/2008092417 Firefox/3.0.3,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1150

I am almost ready to begin fabrication of a new transmitter that I have been working on for a long time now. However, one detail is still eluding me- I would like to use a single rotary switch to select taps on two different coils. In-line ganged switching would be inconvenient for my layout. Is it possible to homebrew a mechanical linkage to turn two switches? I have a front panel and metal deck (vacuum tube construction style), so I could mount gears and cams and stuff, and my layout does have a good clear space between the coils, so there is room. My problem is that I have never read anything about doing this and don't know where to begin looking for parts, etc. Again, I have two coils with four taps each for 40, 20, 15, 10m.

Thank you very much for any thoughts on this matter.

73,
Ross, NS7F

From 2179086171161115376
X-Google-Thread: fc2a5,c642c69e8cf197c5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!q30g2000prq.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: mechanical coil switching of two coils`
Date: Thu, 13 Nov 2008 11:20:29 -0800 (PST)
Organization: http://groups.google.com
Lines: 35
Message-ID: <3c3a2e54-2f2b-471d-89f5-70f45cce162a@q30g2000prq.googlegroups.com>
References: <36e541e1-2127-4496-85b9-910b9f44f594@f37g2000pri.googlegroups.com>

NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1226604029 17367 127.0.0.1 (13 Nov 2008 19:20:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 13 Nov 2008 19:20:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q30g2000prq.googlegroups.com; posting-host=170.121.14.12;
posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3602

On Nov 13, 12:26=A0pm, Ross Tucker <rjtu...@gmail.com> wrote:
> I am almost ready to begin fabrication of a new transmitter that I
> have been working on for a long time now. However, one detail is still
> eluding me- I would like to use a single rotary switch to select taps
> on two different coils. In-line ganged switching would be inconvenient
> for my layout. Is it possible to homebrew a mechanical linkage to turn
> two switches? I have a front panel and metal deck (vacuum tube
> construction style), so I could mount gears and cams and stuff, and my
> layout does have a good clear space between the coils, so there is
> room. My problem is that I have never read anything about doing this
> and don't know where to begin looking for parts, etc. Again, I have
> two coils with four taps each for 40, 20, 15, 10m.
>
> Thank you very much for any thoughts on this matter.

Look at the parts assortments that Robotics Hobbyists buy, from e.g. Jameco and other places. http://www.jameco.com/ search for "robotics".

Berg and Small Parts Inc sell gears and sprockets and roller chain in small quantities but they are not cheap. Jameco is cheap.

Sprockets and roller chain or belts are surprisingly effective if not all your shafts are in-line.

For low-level switching, using relays controlled by DC voltage busses is great. Surplus small relays are available in vast quantities at very cheap prices. For non-mechanical switching, diodes can be biased on and off by DC voltages to act as switches. But once you get to higher level switching (e.g. transmitter tanks) the cheap relays may not take the currents or voltages involved. Still, there was an article in QST a few months ago that used small relays to change the electrical length of a wire antenna, I was a little surprised at how do-able it looked.

Tim N3QE

From -8554676161460545376

```
X-Google-Thread: fcc6e,58dd6858cb506c33,start
X-Google-Thread: fc2a5,58dd6858cb506c33,start
X-Google-Thread: 1109af,58dd6858cb506c33,start
X-Google-Attributes: gidfcc6e,gidfc2a5,gid1109af,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feed.cgocable.net!
read2.cgocable.net.POSTED!53ab2750!not-for-mail
From: "Norm VE3CZI" <ve3czi@arrl.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.swap
Subject: FS: AT-271 Military Collapsible Antennas
Lines: 35
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Message-ID: <y7%Sk.167$Je.112@read2.cgocable.net>
Date: Thu, 13 Nov 2008 14:22:05 -0500
NNTP-Posting-Host: 24.141.81.109
X-Complaints-To: news@cogeco.net
X-Trace: read2.cgocable.net 1226604126 24.141.81.109 (Thu, 13 Nov 2008 14:22:06
EST)
NNTP-Posting-Date: Thu, 13 Nov 2008 14:22:06 EST
Organization: Cogeco Cable
Xref: g2news2.google.com rec.radio.amateur.antenna:21927
rec.radio.amateur.homebrew:3603 rec.radio.swap:3727
```

```
> Have available the AT-271 Military Collabsible Antenna.... $30 USD Plus
> Shipping
>
> This portable antenna can be used for the top section of a Vertical
> Antenna
> OR Horizontal elements  for an Antenna System  such as  the Buddipole tm
> ......      A Great QRP / Portable Antenna weighs only 400 Grams [14 Oz ]
> and measures 104" extended yet only 14" long when folded.
> The construction is the same as is used for sectional fishing poles.  Each
> of the 8 hollow tubular metal sections has a plug one one end and a socket
> on the other end.  All the sections are connected by a string made of
> either
> a cloth or metal cord.  At the bottom of the base element there's a spring
> inside the tube to tension the cord. Some units may  use an elastic
> shock-cord material.     This way all the elements are kept in order when
> they are disconnected from each other and are held together when assembled
> into a 104" [8.6 Ft]  long antenna.   When the elements are folded or
> disassembled  the package is only 14 inches long.
> The base has a male 3/8-24 thread which is the same as is used on most Ham
> Radio and CB antennas.  Some sort of spring base  could be used when this
> antenna is used because the hollow antenna elements will "fold" if too
> much
> force is applied to them.
> These units are in Like New Condition.. Sold AS-IS but will not be DOA.
```

> Have access to more...ASK!
>
> Pictures on www.rodemi.com
>
> Thanks for looking....Norm VE3CZI
>
>

From 5416748104995302415
X-Google-Thread: fc2a5,b7429fa748e45d89,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!a3g2000prm.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HiPot testing my filament xformer
Date: Thu, 13 Nov 2008 19:32:10 -0800 (PST)
Organization: http://groups.google.com
Lines: 22
Message-ID: <57a0b89a-3205-4ca1-b5e9-03f4796c0a16@a3g2000prm.googlegroups.com>
NNTP-Posting-Host: 76.232.149.28
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1226633530 2068 127.0.0.1 (14 Nov 2008 03:32:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 14 Nov 2008 03:32:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a3g2000prm.googlegroups.com; posting-host=76.232.149.28;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1153

I built my own 7.5VACT 21amp filament xformer. I needed to supply
-500VDC screen voltage to the center tap.So a local ham tells me the
insulation better be able to withstand at least 500VDC.

I built my own hipot tester from a voltage doubler and a bank of eight
400WVDC caps. Each cap had a 330 volt charge so like 2640VDC. I
figured no problem. I looky up the specs and see if this thingy
passes.

I googled and can find no specs for hipot testing. I came across in a
usernet group: 2500VAC at 1ma for 1 minute. That didn't really tell me
much.

My results are 0,2 micro amps thru a 1 meg series resistor at 1980VDC

source voltage. This from either the core or the primary to secondary.
The current didn't change even when I went to a 10meg series resistor.

Is there nowhere that you can get specs without paying big bucks for a
UL or IEEE book on the topic?

73
n8zu

```
From 127838662730669393
X-Google-Thread: fc2a5,b7429fa748e45d89
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.bt.com!news.bt.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 14 Nov 2008 01:12:55 -0600
From: "Ken chattenton" <k.chattenton@btopenworld.com>
Newsgroups: rec.radio.amateur.homebrew
References: <57a0b89a-3205-4ca1-b5e9-03f4796c0a16@a3g2000prm.googlegroups.com>
Subject: Re: HiPot testing my filament xformer
Date: Fri, 14 Nov 2008 07:04:30 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <7_ednajA3uZluYDUnZ2dnUVZ8vudnZ2d@bt.com>
Lines: 18
X-Usenet-Provider: http://www.giganews.com
X-AuthenticatedUsername: NoAuthUser
X-Trace: sv3-
B7evLhlpOQQhfyo9uq7LYc8rx8Pn3xRxGTi+SvtjHmesG118Cq+ckZfPbw3rzkLTlaSKs7ka6ceonUJ!
tNJ93Fkm7JHyl3U6Lx1KFhDxCDPxi3Sq8ED0/nWmcg0T1muJJvrqX56/v+yXK2/zs1SZSAcuL0k=
X-Complaints-To: abuse@btinternet.com
X-DMCA-Complaints-To: abuse@btinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1154
```

HI from Ken, G4KIR,

Why not just borrow (if you don't own one that is) an Electricians
insulation tester, known over here in the UK as a "MEGGER".
These units can produce around 250-1000volts (if you can get hold of a good
one).
This will test your insulation no problem.

Hope this helps, cheers, ken, G4KIR.

"raypsi" <RBorowiak@gmail.com> wrote in message
news:57a0b89a-3205-4ca1-b5e9-03f4796c0a16@a3g2000prm.googlegroups.com...
>I built my own 7.5VACT 21amp filament xformer. I needed to supply
> -500VDC >
> 73
> n8zu

```
From 6007335122223642525
X-Google-Thread: fc2a5,b7429fa748e45d89
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!
nwrddc01.gnilink.net.POSTED!f4af025b!not-for-mail
From: "Norm Mann" <folder0735@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <57a0b89a-3205-4ca1-b5e9-03f4796c0a16@a3g2000prm.googlegroups.com>
Subject: Re: HiPot testing my filament xformer
Lines: 40
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Message-ID: <S3bTk.445$4g5.436@nwrddc01.gnilink.net>
Date: Fri, 14 Nov 2008 08:57:22 GMT
NNTP-Posting-Host: 71.102.225.245
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1226653042 71.102.225.245 (Fri, 14 Nov 2008 03:57:22
EST)
NNTP-Posting-Date: Fri, 14 Nov 2008 03:57:22 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:1155
X-Original-Bytes: 2868
```

"raypsi" <RBorowiak@gmail.com> wrote in message
news:57a0b89a-3205-4ca1-b5e9-03f4796c0a16@a3g2000prm.googlegroups.com...
>I built my own 7.5VACT 21amp filament xformer. I needed to supply
> -500VDC screen voltage to the center tap.So a local ham tells me the
> insulation better be able to withstand at least 500VDC.
>
> I built my own hipot tester from a voltage doubler and a bank of eight
> 400WVDC caps. Each cap had a 330 volt charge so like 2640VDC. I
> figured no problem. I looky up the specs and see if this thingy
> passes.
>
> I googled and can find no specs for hipot testing. I came across in a
> usernet group: 2500VAC at 1ma for 1 minute. That didn't really tell me
> much.

>
> My results are 0,2 micro amps thru a 1 meg series resistor at 1980VDC
> source voltage. This from either the core or the primary to secondary.
> The current didn't change even when I went to a 10meg series resistor.
>
> Is there nowhere that you can get specs without paying big bucks for a
> UL or IEEE book on the topic?

I'm surprised that you couldn't find UL, IEEE or MIL-SPEC (or MIL-STD) sources on the net through Google or any other search engine.
Just taking the snippet you did come across, I believe that it means that you must maintain a leakage current less than 1 ma. for 1 minute with an applied voltage of 2500VAC (about 3500V peak). This is so far above your typical operating conditions, I'm tempted to say you passed. You do mention that your results were from the primary OR core to the secondary instead of primary AND core to the secondary, which is typical for this test, but I'm not sure it matters for a home-built. I used to have to do a test like this using 1500VDC with an automatic tester. If there was a problem with insulation, it showed up quickly. If the room lights were dimmed, you could see the place where it failed by the arc to ground.

-NM

From -63948992218318477
X-Google-Thread: 106d41,fc6cbb34a018c5bc,start
X-Google-Thread: fc2a5,fc6cbb34a018c5bc,start
X-Google-Thread: 108122,fc6cbb34a018c5bc,start
X-Google-Attributes: gid106d41,gidfc2a5,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!d36g2000prf.googlegroups.com!not-for-mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: VoiceMax Speech Processor
Date: Fri, 14 Nov 2008 04:13:55 -0800 (PST)
Organization: http://groups.google.com
Lines: 5
Message-ID: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1226664837 13232 127.0.0.1 (14 Nov 2008 12:13:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 14 Nov 2008 12:13:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d36g2000prf.googlegroups.com; posting-host=216.203.30.4;
 posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0

```
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.cb:4628 rec.radio.amateur.homebrew:1156
rec.radio.amateur.equipment:841
```

The VoiceMax speech processor is not for everyone...
It's only for radio operators that want maximum range from their rig.
VoiceMax is no gimmick... it uses proven AGC technology to produce
tangible results. Want to know more?
http://tinyurl.com/2ac9r5

```
From 1089990917004400228
X-Google-Thread: fc2a5,3c80bb76de5a5fcc,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 14 Nov 2008 07:44:16 -0600
Date: Fri, 14 Nov 2008 13:44:15 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Microwave Projects
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Z9ednVsJMYktHYDUnZ2dnUVZ_jCdnZ2d@bright.net>
Lines: 10
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-f0Gz3XAeJXYQV9apgrviAYgLwavSF3j4UIdXV0IowjERO6n/
wnBQXtTQMPYlzTSMvfhTnt8p0c71Ii5!u6IOSPcspmndqPMojz85+O5YjfKHzo7thr2hU6nMu/
K4SQuBua0FXqDMgBWcr66CkNYrnx9pwW6m!wy24nZV6rA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1157
```

As long has there has been some show and tell lately, here is my newly updated webpage showing my work (so far) on my 10 GHz transverter. Just added some block diagrams for my next projects...transverters for 1296, 2304 and 3456 MHz based on the W1GHZ Multiband transverters. Comments welcomed!

Scott, N0EDV
http://corbenflyer.tripod.com/
Then select the "My Ham Radio Page" from the menu on the left side.

```
From -4244768953110924939
X-Google-Thread: fc2a5,b7429fa748e45d89
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!feeder.erje.net!
news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HiPot testing my filament xformer
Date: Fri, 14 Nov 2008 15:10:21 +0100 (CET)
Organization: Mostly In Piles
Lines: 81
Message-ID: <Xns9B565326491F62MDWN@194.177.96.78>
References: <57a0b89a-3205-4ca1-b5e9-03f4796c0a16@a3g2000prm.googlegroups.com>
NNTP-Posting-Host: 59PCyHb9VPLfxXI5jqudxQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Fri, 14 Nov 2008 14:10:21 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1158
```

Howdy,

A good rule of thumb (derived from many UL specifications) for equipment with a safety ground is use twice the operating voltage plus 1KV AC with a test period of one minute.

For reduced test time, one second is allowed for _production_line_ testing with increased test voltage

So for equipment operating at 115VAC you'd qualifying test of 1230VAC from primary to secondary for one minute (use 1250VAC.)

Isolating components like transformers often have to meet the requirements for double insulation so they are tested at twice the basic test voltage which is where the 2500VAC test value comes from.

Often the basic test voltage 1500VAC is applied from input to ground (chassis) and the double insulation test voltage of 2500VAC is applied from input to output. Because the output is not tied to the safety ground.

The criteria for failure is non-linear rise of applied voltage or a sustained arc or measured current above some value. The current limit varies but 3mA is a good value for equipment that is safety grounded (not double insulated.)

UL also requires the hi-pot machine to be capable of 500VA output.

Double insulated transformers tested to IEC standards for the EU with it's higher nominal line voltage may be subjected to hi-pot voltages as high as 1500V primary to ground and 4000VAC primary to secondary for one minute.

Caveats

Hi-pot only a test. There are are dimensional requirements (safety from conductor spacings) and requirements for durability of insulating materials. You could still grossly violate the standards, producing a dangerous component, and pass hi-pot. Two pieces of heavy build magnet wire twisted together will usually pass 5KVAC hipot, would you trust that with your life?

A person should to follow and understand the applicable standards under fear of fire, injury or death.

And as always, all of the above may be horribly wrong.

73,
Grumpy

raypsi <RBorowiak@gmail.com> wrote in news:57a0b89a-3205-4ca1-b5e9-03f4796c0a16@a3g2000prm.googlegroups.com:

> I built my own 7.5VACT 21amp filament xformer. I needed to supply
> -500VDC screen voltage to the center tap.So a local ham tells me the
> insulation better be able to withstand at least 500VDC.
>
> I built my own hipot tester from a voltage doubler and a bank of eight
> 400WVDC caps. Each cap had a 330 volt charge so like 2640VDC. I
> figured no problem. I looky up the specs and see if this thingy
> passes.
>
> I googled and can find no specs for hipot testing. I came across in a
> usernet group: 2500VAC at 1ma for 1 minute. That didn't really tell me
> much.
>
> My results are 0,2 micro amps thru a 1 meg series resistor at 1980VDC
> source voltage. This from either the core or the primary to secondary.
> The current didn't change even when I went to a 10meg series resistor.
>
> Is there nowhere that you can get specs without paying big bucks for a
> UL or IEEE book on the topic?
>
> 73
> n8zu

```
From -5809498551074464337
X-Google-Thread: fc2a5,b7429fa748e45d89
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.k-dsl.de!aioe.org!
not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HiPot testing my filament xformer
Date: Fri, 14 Nov 2008 15:17:04 +0100 (CET)
Organization: Mostly In Piles
Lines: 66
Message-ID: <Xns9B56544A1F94C2MDWN@194.177.96.78>
References: <57a0b89a-3205-4ca1-b5e9-03f4796c0a16@a3g2000prm.googlegroups.com>
<Xns9B565326491F62MDWN@194.177.96.78>
NNTP-Posting-Host: 59PCyHb9VPLfxXI5jqudxQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Fri, 14 Nov 2008 14:17:04 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1159

Grumpy The Mule <s_foonly@foo.bar> wrote in
news:Xns9B565326491F62MDWN@194.177.96.78:

> Howdy,
>
> A good rule of thumb (derived from many UL  specifications)
> for equipment with a safety ground is use twice the operating
> voltage plus 1KV AC with a test period of one minute.
>
> For reduced test time, one second is allowed for _production_line_
> testing with increased test voltage
>
> So for equipment operating at 115VAC you'd qualifying test of
> 1230VAC from primary to secondary for one minute (use 1250VAC.)
>
> Isolating components like transformers often have to meet the
> requirements for double insulation so they are tested at twice
> the basic test voltage which is where the 2500VAC test value
> comes from.
>
> Often the basic test voltage 1500VAC is applied from input to
> ground (chassis) and the double insulation test voltage of
> 2500VAC is applied from input to output.  Because the output
> is not tied to the safety ground.
>
> The criteria for failure is non-linear rise of applied voltage or
> a sustained arc or measured current above some value.  The current
> limit varies but 3mA is a good value for equipment that is safety
> grounded (not double insulated.)
>
```

> UL also requires the hi-pot machine to be capable of 500VA output.
>
> Double insulated transformers tested to IEC standards for the EU
> with it's higher nominal line voltage may be subjected to hi-pot
> voltages as high as 1500V primary to ground and 4000VAC primary
> to secondary for one minute.
>
>
> Caveats
>
> Hi-pot only a test. There are are dimensional requirements
> (safety from conductor spacings) and requirements for durability
> of insulating materials. You could still grossly violate the
> standards, producing a dangerous component, and pass hi-pot.
> Two pieces of heavy build magnet wire twisted together will
> usually pass 5KVAC hipot, would you trust that with your life?
>
> A person should to follow and understand the applicable standards
> under fear of fire, injury or death.
>
>

Sorry, no coffee yet. I should have wrote...

Often the basic test voltage 1250VAC is applied from input to
ground (chassis) and the double insulation test voltage of
2500VAC is applied from input to output. Because the output
is not tied to the safety ground.

Grumpy The Mule <s_foonly@foo.bar> wrote in
news:Xns9B565326491F62MDWN@194.177.96.78:

> Often the basic test voltage 1500VAC is applied from input to
> ground (chassis) and the double insulation test voltage of
> 2500VAC is applied from input to output. Because the output
> is not tied to the safety ground.

From 8882068708756326796
X-Google-Thread: fc2a5,b7429fa748e45d89
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-
online.de!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HiPot testing my filament xformer
Date: Fri, 14 Nov 2008 15:17:21 +0100 (CET)
Organization: Mostly In Piles
Lines: 16
Message-ID: <Xns9B5654562AEB52MDWN@194.177.96.78>
References: <57a0b89a-3205-4ca1-b5e9-03f4796c0a16@a3g2000prm.googlegroups.com>

```
<Xns9B565326491F62MDWN@194.177.96.78>
NNTP-Posting-Host: 59PCyHb9VPLfxXI5jqudxQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Fri, 14 Nov 2008 14:17:21 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1160
```

Sorry, no coffee yet. I should have wrote...

Often the basic test voltage 1250VAC is applied from input to
ground (chassis) and the double insulation test voltage of
2500VAC is applied from input to output. Because the output
is not tied to the safety ground.

Grumpy The Mule <s_foonly@foo.bar> wrote in
news:Xns9B565326491F62MDWN@194.177.96.78:

> Often the basic test voltage 1500VAC is applied from input to
> ground (chassis) and the double insulation test voltage of
> 2500VAC is applied from input to output. Because the output
> is not tied to the safety ground.

```
From -6112955735292988З0
X-Google-Thread: 106d41,fc6cbb34a018c5bc
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Attributes: gid106d41,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
feeder.erje.net!news2.arglkargh.de!news.albasani.net!not-for-mail
From: Stev eH
<StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfgh
gjsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbl
lyxdldf@tfif.co.uk>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor
Date: Fri, 14 Nov 2008 15:27:08 +0000
Organization: Digital preserves music the way that formaldehyde preserves
 frogs. You kill it, and it lasts forever
Lines: 12
Message-ID: <gfk5ca$osk$1@news.albasani.net>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
Reply-To:
StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfghg
jsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbll
yxdldf@tfif.co.uk
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
```

hnoJME95Zkgf+egeengGXqz674SyEejXoThgQAt8oiIkpLIJq4uqIqZd1POa/
6NVoKgZsREzktyTXsHlgDWjvKGFTC11IJTx66maNLZ6BcoU/w7+CMZM6gZKYTd2VOH3
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Fri, 14 Nov 2008 15:27:06 +0000 (UTC)
X-User-ID: E2htDRWOpas9d0xiK8xbl2fLWjfW6Jp49wjT7OEpfKk=
In-Reply-To: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
Cancel-Lock: sha1:n+d7/BYyziTVsL+tmzMj4FZelRc=
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
X-NNTP-Posting-Host: 5VhiY19kK6WbDxi7m4sXiLoc+uTRBgcx998LOfDbYUE=
Xref: g2news2.google.com rec.radio.cb:13662 rec.radio.amateur.homebrew:3612

Tel star Electronics briangriffey@sbcglobal.net
<briangriffey@sbcglobal.net> wrote:
> The VoiceMax speech processor is not for everyone...
> It's only for radio operators that want maximum range from their rig.
> VoiceMax is no gimmick... it uses proven AGC technology to produce
> tangible results. Want to know more?
> http://tinyurl.com/2ac9r5
briangriffey@sbcglobal.net <briangriffey@sbcglobal.net>

What has a ready made module got to do with home brew?

Steve H

From -7359087154417596028
X-Google-Thread: 107ada,e8752fa566cbcb04,start
X-Google-Thread: fc2a5,e8752fa566cbcb04,start
X-Google-Attributes: gid107ada,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!newshub.sdsu.edu!
news.linkpendium.com!news.linkpendium.com!panix!wb8foz
From: David Lesher <wb8foz@panix.com>
Newsgroups: rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Wanted: one of those hat guys
Date: Fri, 14 Nov 2008 16:02:18 +0000 (UTC)
Organization: NRK Clinic for habitual NetNews Abusers - Beltway Annex
Lines: 13
Message-ID: <gfk7ea$bju$1@reader1.panix.com>
NNTP-Posting-Host: panix5.panix.com
X-Trace: reader1.panix.com 1226678538 11902 166.84.1.5 (14 Nov 2008 16:02:18 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 14 Nov 2008 16:02:18 +0000 (UTC)
User-Agent: nn/6.7.3
Xref: g2news1.google.com rec.radio.amateur.misc:1552
rec.radio.amateur.homebrew:1162

The ones that go to hamfests and custom embroider a name/logo onto a hat.

There being no hamfests in the DC region for many months, and me having
never asked their names/locations..... I thought this might be a place
to ask.

```
--
A host is a host from coast to coast................wb8foz@nrk.com
& no one will talk to a host that's close........[v].(301) 56-LINUX
Unless the host (that isn't close).........................pob 1433
is busy, hung or dead....................................20915-1433
```

From 5842182566074392706
X-Google-Thread: fc2a5,b7429fa748e45d89
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HiPot testing my filament xformer
Date: Fri, 14 Nov 2008 19:05:25 +0100 (CET)
Organization: Mostly In Piles
Lines: 13
Message-ID: <Xns9B567B01664542MDWN@194.177.96.78>
References: <57a0b89a-3205-4ca1-b5e9-03f4796c0a16@a3g2000prm.googlegroups.com>
NNTP-Posting-Host: kPqLSi5298CqMKwZ3FkOcw.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Fri, 14 Nov 2008 18:05:25 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3614

Getting side tracked by the mention of agency requirements, I didn't answer your question.

To answer your question, there is no agency requirement for what you're trying to test. Both input and output are not covered by the low voltage directive because they're both unsafe to touch. So the only requirement is operational insulation which your test proved.

I also failed to mention that Most standards allow for DC testing at 1.414 times the AC voltage required.

From 5194425816054544046
X-Google-Thread: 106d41,fc6cbb34a018c5bc
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Attributes: gid106d41,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!198.186.190.251.MISMATCH!transit4.readnews.com!news-out.readnews.com!

postnews3.readnews.com!nr5.newsreader.com.POSTED!not-for-mail
Subject: Re: VoiceMax Speech Processor
From: Steve <moparholic@hotmail.com>
Organization: follow me
Message-ID: <20081114141047.121$Pk@newsreader.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
<gfk5ca$osk$1@news.albasani.net>
X-NRC-Trace: NewsReader.Com M4XNoeOtvaFJ5CRN27teomp9xYwGhApyOsMAoAJGo=NsF6fnow
Date: 14 Nov 2008 19:10:10 GMT
Lines: 14
NNTP-Posting-Host: ac4076d2.nr5.newsreader.com
X-Trace:
DXC=RY@6SY9jB@]HYHgEGdl7GSOA8_@f\K_iRdZW`2c`iHQV37A^3IO4I]R=GG>gNT>ALRnEVe5fZ\CUY
X-Complaints-To: abuse@newsreader.com
Xref: g2news2.google.com rec.radio.cb:13663 rec.radio.amateur.homebrew:3615

Stev eH
> What has a ready made module got to do with home brew?
>
> Steve H
>
Nothing, it's just Griffeys' spam through google again.

(need a processor on your CB? contact Brian in his moms basement)

Otherwise killfilter voicemax. No one wanted his 11 meter amplifier either,
so he finally stopped that spam.

73
Steve.

From 8458853815770177851
X-Google-Thread: fc2a5,c642c69e8cf197c5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news1.google.com!postnews.google.com!
n33g2000pri.googlegroups.com!not-for-mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: mechanical coil switching of two coils`
Date: Fri, 14 Nov 2008 12:39:57 -0800 (PST)
Organization: http://groups.google.com
Lines: 59
Message-ID: <08f8cbcf-3b76-45e3-bf16-3246110da1fd@n33g2000pri.googlegroups.com>
References: <36e541e1-2127-4496-85b9-910b9f44f594@f37g2000pri.googlegroups.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1226695197 13317 127.0.0.1 (14 Nov 2008 20:39:57 GMT)
X-Complaints-To: groups-abuse@google.com

NNTP-Posting-Date: Fri, 14 Nov 2008 20:39:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n33g2000pri.googlegroups.com; posting-host=207.200.116.11; posting-account=0Q4qJQoAAAB4vjIbnPnpY8JqAcYZv7Os
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0; SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-ntc-td07.proxy.aol.com[CFC87067] (Prism/1.2.1), HTTP/1.1 cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:1165

On Nov 13, 9:26=EF=BF=BDam, Ross Tucker <rjtu...@gmail.com> wrote:

> I am almost ready to begin fabrication of a new transmitter that I have been working on for a long time now. However, one detail is still eluding me- I would like to use a single rotary switch to select taps on two different coils. In-line ganged switching would be inconvenient for my layout. Is it possible to homebrew a mechanical linkage to turn two switches? I have a front panel and metal deck (vacuum tube construction style), so I could mount gears and cams and stuff, and my layout does have a good clear space between the coils, so there is room. My problem is that I have never read anything about doing this and don't know where to begin looking for parts, etc. Again, I have two coils with four taps each for 40, 20, 15, 10m.

A standard way of extending rotary switches 40+ years ago (notably the Centralab types) was to use a quarter-inch rod coupled to two separate switch shafts. Centralab style had flatted shafts to index their switch wafers. A shaft extender could be used with the rounded rod. All of those hardware pieces are still available at distributors such as Jameco or Ocean State Electronics. Rotary switch pieces, per se, aren't available now.

As a suggestion of a different way, relays are good ways to 'remote' the switching. Modern automobiles use quite a few relays and small, low-power coils with high-power contacts are plentiful. Relays are common in automatic antenna tuners. Four taps selected on two coils would need two sets of SPDT to DPDT contact arrangements. See Futurlec or Digidey or Allied or Mouser for such relays. There is a fairly wide range of relay coil voltages available and each relay is less than $5 in small quantities. Usual breakdown voltage ratings are about 250 V so it is no sweat to handle 100 W transmitter power outputs.

For all-mechanical contact coupling, I might suggest 'tactile' snap-

action switches (familiar name 'Microswitch') which are plentiful
now. Mechanical
coupling could be cams or sliding bars with cam surfaces on them,
switches
in-line. Sliding bars can be made from aluminum stock found at most
do-it-
yourself home repair stores. I did something like that a dozen years
ago
using aluminum right-angle stock, making cam surfaces by cutting down
the
aluminum slightly to leave the original edge as the 'cam.' The kind
of tactile
switches depends on their contact rating and what kind of RF power you
are
handling. Most on the market today can't handle much more than around
20 W.

Good luck on your project!
73, Len AF6AY

From 310466992741195792
X-Google-Thread: fc2a5,4da60416ef44f0c4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news.cse.ohio-state.edu!
pitt.edu!egsner!news.cirr.com!sdf.lonestar.org!sdog2008
From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Article about a portable PC that runs on 12v?
Date: Fri, 14 Nov 2008 21:55:45 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 106
Message-ID: <Pine.NEB.4.64.0811142129420.7316@sdf.lonestar.org>
References: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com>
 <tN6dnTLjt9YZNoXUnZ2dneKdnZydnZ2d@pipex.net>
 <90853ff4-a29e-4167-900c-77583682f7f0@l33g2000pri.googlegroups.com>
 <6ns6alFl5pmU1@mid.individual.net>
<b825958f-871c-49e2-9067-81f9a4ead046@i20g2000prf.googlegroups.com>
 <6num1sF10ncjU1@mid.individual.net> <celmh4h2mkhfbiq9a36pmek558j5k4k30p@4ax.com>
NNTP-Posting-Host: sdf.lonestar.org
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: chessie.cirr.com 1226699753 14063 192.94.73.1 (14 Nov 2008 21:55:53 GMT)
X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Fri, 14 Nov 2008 21:55:53 +0000 (UTC)
In-Reply-To: <celmh4h2mkhfbiq9a36pmek558j5k4k30p@4ax.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3617

On Wed, 12 Nov 2008, Dan Richardson wrote:

> Date: Wed, 12 Nov 2008 14:32:40 -0800

> From: Dan Richardson <k6mhe@k6mhe.com>
> Newsgroups: rec.radio.amateur.homebrew
> Subject: Re: Article about a portable PC that runs on 12v?
>
> On Wed, 12 Nov 2008 00:24:01 +0000, Bob <biascomms@invalid.inv> wrote:
>
>> can't understand the reluctance of the Americans to use Linux. There has
>> been no real reason to use Windows for a long time (unless you want to play
>> games, but a PS3 is best for that). Over here in Europe, Linux uptake
>> continues rapidly - as each new Windows virus or worm hits, ever more people
>> and businesses migrate.
>
> Maybe it is because it can be very difficult, if not impossible, to
> find necessary hardware drivers. Especially, if you have some of the
> latest equipment models. I have found Linux to be more useful on older
> computers as one is much more likely to find the necessary drivers.
>
> For example have recently added a new HP all-in-one laser printer that
> includes a scanner and FAX. I have it installed on a dual boot
> (Linux/Windows XP) system. While I'm able to print with the Linux
> system good luck trying to get the scanner and FAX working. That's
> just one example. I have a litany of them.

I spent a couple of years evaluating Linux here and decided to go back to Windows. I really really wanted Linux to work, but in the end stayed with Windows (98 second edition was best). Here are some of my issues;

1. Hardware compatibility is a major problem, and gets worse the later the distro. Best distros for my hardware were Red hat 5.2 and 6.2, and I could install those distros on any and all of my hardwares (about two dozen boxes), Later distros did not have drivers for earlier CDROM drives where your only other option is boot-from-CDROM, but if your bios does not have that, then you are dead. I have had a lot of experience with installations of Linux that crash before the installation is completed. If you want Linux, start with a shop or company that will sell you all the hardware knowing that that hardware will support the OS. Yes, i spent years on the linux newsgroups reading posts of all kinds of people having all kinds of problems. The multi-boot loaders also have bugs (lilo, grub, etc.) and the books don't tell you what to do if it screws up your box. Also, its a hardware compatibility problem. I had boxes where everything worked fine. Other boxes where the install crashed, the boot manager screwed up, or something else didn't work. YMMV.

2. I like iomega zip disks (100 MB) and the books say the only way Linux can support zip disks is by re-compiling the kernel and I was not about to do that.

3. Especially the later distros: they all need more ram than Windows to work (250 mb, minimum).

4. If you are serious, you need to configure your Linux firewall and the books say if you don't do it right, you're worse off than running without a firewall. I ran Linux for over a year, but got hacked within two months.

With Zone Alarm, you just put it into Windows and you get a lot of protection for no work.

5. Unless you have a high spec box (I didn't), all of the aps run slower than Windows. This is because Linux is really multiprocess unlike Windows which is multitasking (via time slicing). This is also true for OS/2 which I also spent a lot of time with.

I bought version 8 of Ubuntu a few weeks ago. they cleaned up a lot, but after the install, I got the printer to work fine, but Ubuntu could not find my modem (yes its a _regualar_ modem and that modem worked with everything else) and I don't have any other kind of internet access here besides dialup (unless I want to get one of the satellite dish deals, adding up a ton of fees and a two year contract and the legal disclaimers say they don't guarantee anything). So, I'll give MS credit for an OS that really does install on all of my hardware, and always finds all of my peripherals.

One nice thing about Ubuntu is that you can boot up totally off the CDROM and see if it ends up with the gui and you can run the aps without problems. Boot up from the CDROM takes (on my 800 mHz box) about 5-8 minutes. Ap launch is also quite slow, but will work. It absolutely will not boot up on less than 250 mb of ram.

Microsoft has become the ultimate robber-barron with its "activation" and I bought one legal copy of XP which I will run as long as I can but if internet web browsing makes any further advances, I'll consider an Apple Mac before I give Bill Gates & Thugs any more money.

The other problem is whether Apple supplies distibution disks with their computers (in case you need to re-install the OS because of, for example, a corrupted or hacked OS install). And, if you think OS-X is immune to hacking, then just google on "hack OS-X" and get 30,000 hits. Might be resistant to MS viruses, but there is a lot of other malicious code out there that is bad for your box.

Oh, yes, shut off as many of the services as you can or when you re-boot, it may crash (particularly the earlier distros) and make your box unusable without another install from scratch (unless you know how to fix what got screwed up). You could also ruin your RH 5.2 install if you did a shutdown and forgot to unmount a CDROM drive. Happend to me three times.

> Regards,
> Danny
>
>
>
>

From 584697750197064180
X-Google-Thread: fc2a5,4da60416ef44f0c4

```
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!news.k-
dsl.de!aioe.org!not-for-mail
From: "#!/bin/bash" <devnull@example.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Article about a portable PC that runs on 12v?
Date: Fri, 14 Nov 2008 17:49:57 -0500
Organization: Aioe.org NNTP Server
Lines: 12
Message-ID: <gfkvam$i6s$1@aioe.org>
References: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com>
NNTP-Posting-Host: DjYYcALJL03gmpoU8Y26vQ.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Fri, 14 Nov 2008 22:49:58 +0000 (UTC)
X-Notice: Filtered by postfilter v. 0.7.4
User-Agent: Thunderbird 2.0.0.17 (X11/20080925)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3618

KC7PM wrote:
> I saw something in the last year or two about building a PC that runs
> entirely on 12V and with low power consumption.  Does anyone know
> where I can find that article or website?

Oh you can roll your own quite easily.  Go to http://www.mini-box.com
and put together a combination of case, system board, and power supply.
 You'll need to add memory and disk to it, as well.  I'm currently using
an Intel system board (D945GCLF2) which comes with a dual core Atom 330
processor soldered on.  I'm running my on 110VAC but it's quite a
capable system board and I wouldn't hesitate to try to build a 12VDC
system around it.


From -1563345836917561165
X-Google-Thread: fc2a5,3c80bb76de5a5fcc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s9g2000prm.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Microwave Projects
Date: Fri, 14 Nov 2008 18:39:07 -0800 (PST)
Organization: http://groups.google.com
Lines: 13
Message-ID: <1f607ed7-b97b-41aa-9aff-bda58b233daa@s9g2000prm.googlegroups.com>
References: <Z9ednVsJMYktHYDUnZ2dnUVZ_jCdnZ2d@bright.net>
NNTP-Posting-Host: 76.232.149.28
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
```

```
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1226716748 9434 127.0.0.1 (15 Nov 2008 02:39:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 15 Nov 2008 02:39:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s9g2000prm.googlegroups.com; posting-host=76.232.149.28;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3619
```

hey scotty:

Really nice I like the page where you are holding a shell of brew. Now that's my kind of operator.

Now that MicroLO board is really sweet it's so large there must be a duplexer on there too, Plus I think I see 5 4 lead devices somewheres on that board with rock bigger than that dime. But tell me this isn't a wideband unit it's just narrow bandwidth? Or maybe your using this for RC control?

73 OM
n8zu

```
From 7087049088777249025
X-Google-Thread: fc2a5,b7429fa748e45d89
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
s9g2000prm.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HiPot testing my filament xformer
Date: Fri, 14 Nov 2008 18:51:25 -0800 (PST)
Organization: http://groups.google.com
Lines: 23
Message-ID: <b39a919d-4502-4ee1-a299-46cb1751bd87@s9g2000prm.googlegroups.com>
References: <57a0b89a-3205-4ca1-b5e9-03f4796c0a16@a3g2000prm.googlegroups.com>
     <Xns9B567B01664542MDWN@194.177.96.78>
NNTP-Posting-Host: 76.232.149.28
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1226717485 11499 127.0.0.1 (15 Nov 2008 02:51:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 15 Nov 2008 02:51:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s9g2000prm.googlegroups.com; posting-host=76.232.149.28;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
```

X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1169

On Nov 14, 1:05=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> Getting side tracked by the mention of agency requirements,
> I didn't answer your question.
>
> To answer your question, there is no agency requirement for
> what you're trying to test. =A0Both input and output are not
> covered by the low voltage directive because they're both
> unsafe to touch. =A0So the only requirement is operational
> insulation which your test proved.
>
> I also failed to mention that Most standards allow for DC
> testing at 1.414 times the AC voltage required.

Thank you OM my transformer will not pass the 1500VAC test but it does
ok at 1350VAC, leakage down to 0,2 nano amps after I got rid of the
stray leakage caused by my test set up, always best to zero out the
hipot tester first. Thus eliminating the stray leakage. Must have
nicked the kapton insulation for it to breakdown at 1500VAC Now I'll
have to pot the transformer in epoxy.

73 OM

n8zu

From 9132738614576680578
X-Google-Thread: fc2a5,3c80bb76de5a5fcc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 14 Nov 2008 23:23:43 -0600
Message-ID: <491E5CDE.4030707@bloomer.net>
Date: Sat, 15 Nov 2008 05:23:42 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To: raypsi <RBorowiak@gmail.com>
Subject: Re: Microwave Projects
References: <Z9ednVsJMYktHYDUnZ2dnUVZ_jCdnZ2d@bright.net> <1f607ed7-
b97b-41aa-9aff-bda58b233daa@s9g2000prm.googlegroups.com>
In-Reply-To: <1f607ed7-b97b-41aa-9aff-bda58b233daa@s9g2000prm.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 37

X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-rLd+zXwugWusUPOxNHT3nlvTMHBP9Di7w6AB0okVPoJ+4L7I399B2rYQchD4VV8RU/
q5SsemJxeq9+0!cSIanfbf3jfpAZcaT+LI4TMFqbmzObUu1P0KdDqz54TDn2Wfphub1A4Gzcn1wmHX9g==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3621

raypsi wrote:
> hey scotty:
>
> Really nice I like the page where you are holding a shell of brew. Now
> that's my kind of operator.
>
> Now that MicroLO board is really sweet it's so large there must be a
> duplexer on there too, Plus I think I see 5 4 lead devices somewheres
> on that board with rock bigger than that dime. But tell me this isn't
> a wideband unit it's just narrow bandwidth? Or maybe your using this
> for RC control?
>
> 73 OM
> n8zu

Thanks for the kind words...yes, the microLO is the local oscillator
board for my narrowband 10 GHz transverter. Those "U-Shaped" traces are
the filters that select the correct harmonic of the crystal oscillator
(1136 MHz in the case of the 10 GHz unit). Those 4 legged devices are
MMICs (Monolithic Microwave Integrated Circuit) such as MAR-6, MAR-1,
etc. They are simple gain blocks with 50 ohm input and output, so they
are simple to use (no impedance matching!).

The 10 GHz transverter takes a 2M (ie 144.100) signal in and puts out a
signal at 10 GHz (10368.1 MHz with 144.100 in)...it basically adds the
final LO frequency (10224.000 MHz) to the 144.xxx sinal and sends it out
to the antenna. Works opposite during receive. As can be seen on my
webpage, I also have a transverter for 902 MHz and am going to start
building units for 1296, 2304 and 3456 MHz. All use the same principle
of mixing two frequencies to arrive at a third frequency. You can look
at Downeast Microwave's site to see all the neat stuff available these
days! http://www.downeastmicrowave.com/

73,
Scott
N0EDV
http://corbenflyer.tripod.com/

From -8051992465641940758
X-Google-Thread: fc2a5,b7429fa748e45d89
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!news4.google.com!feeder.news-service.com!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HiPot testing my filament xformer
Date: Sat, 15 Nov 2008 08:48:01 +0100 (CET)
Organization: Mostly In Piles
Lines: 34
Message-ID: <Xns9B571253D8E242MDWN@194.177.96.78>
References: <57a0b89a-3205-4ca1-b5e9-03f4796c0a16@a3g2000prm.googlegroups.com> <Xns9B567B01664542MDWN@194.177.96.78> <b39a919d-4502-4ee1-a299-46cb1751bd87@s9g2000prm.googlegroups.com>
NNTP-Posting-Host: YeXwFhqvPZHVY4kyBDS0WQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Sat, 15 Nov 2008 07:48:01 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3622

Howdy,

Kapton tape is great stuff. It's best to use at least two full wraps. Some standards for reenforced or double insulation require three wraps where any two can withstand the hi-pot. Even where it's not required the two full wraps minimum is generally a good practice.

The breakdown could be due to insufficient creepage distance between the windings. If you can build up the bobbin with tape at both ends to form a barrier which keeps the winding centered it will help.

Another thing to do is sleeve the wire where it leaves the winding. A tape "pad" under the lead-out where it crosses the barrier tape is another option.

Although Kapton is resistant to temperature you're not building with an insulation system where the components have been aged with each other at high temperature in oxygen to see if there's any degredation due to chemical reactions. So the temperature rise of the transformer should be limited to 65C above ambient. If it's too hot to hold your finger on for about three seconds it's too hot. I'd call it a rule of thumb but I'd use the index finger for that test.

A person should to follow the applicable standards under fear of fire, injury or death. And as always, all of the above may be horribly wrong.

73,
Grumpy

```
From 3650229690601572922
X-Google-Thread: 106d41,fc6cbb34a018c5bc
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Attributes: gid106d41,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!u29g2000pro.googlegroups.com!not-for-
mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor
Date: Sat, 15 Nov 2008 08:20:40 -0800 (PST)
Organization: http://groups.google.com
Lines: 7
Message-ID: <62e2cb0e-90c6-42ee-a80b-9ace32b89730@u29g2000pro.googlegroups.com>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
     <gfk5ca$osk$1@news.albasani.net>
NNTP-Posting-Host: 75.34.27.147
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1226766040 14610 127.0.0.1 (15 Nov 2008 16:20:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 15 Nov 2008 16:20:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u29g2000pro.googlegroups.com; posting-host=75.34.27.147;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
     .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506;
     InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.cb:13670 rec.radio.amateur.homebrew:3623
```

> What has a ready made module got to do with home brew?
> Steve H

SteveH, it has everything to do with home brew... if your goal is to
substantially increase the performance of your rig.
www.telstar-electronics.com

```
From -5730151931506695946
X-Google-Thread: fc2a5,2a05b9acf3aa71
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 15 Nov 2008 13:09:50 -0600
Date: Sat, 15 Nov 2008 11:10:03 -0800
From: Tim Wescott <tim@seemywebsite.com>
```

User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew breadboard xmtr
References: <gfdmdq01f4h@news6.newsguy.com>
In-Reply-To: <gfdmdq01f4h@news6.newsguy.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <wsCdnXAGXr3jg4LUnZ2dnUVZ_oLinZ2d@web-ster.com>
Lines: 51
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-k9A40vmzxGruskpyHIm2Tql40e2kkQ+uXERE8gmpAy6FxnVkPlTb4M+Q4cYIiAuBQoyF/RHIPAfbY1Q!61GUJJAvHSnC2ygTfuP1k7agZ6VmJ/GjnCXWjSqnPAttZpq04H9gQOJASI52s/ICWkHADTtvLJrl!YV8Iv7l9zt9XqXM=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1173

exray wrote:
> Hi,
> I've gotten far enough along with this project to where I'm ready to
> toss it out for public scrutiny, so have at me, guys.
>
> I'm a receiver guy - never built a tube transmitter from scratch and
> this is my first go. My goals were, in no particular order, to build
> something with a early 30s breadboard look, xtal control, 40/20 meters
> primarily - 80/30 as bonus, moderate power for getting on the air
> barefoot while not overpowering a future amp idea...and of course using
> accessible parts.
>
> This is sort of my compilation of ideas from old QST articles. Robbed
> ideas from this and that to make them fit. I made some major boo-boos
> at first but I think I finally have them sorted out. Something that
> dawned on me a little bit slowly is that none of those old xmtrs were
> set up to operate 40 meters with a 7 Mc xtal. Much of the emphasis was
> on double this/double that. Nowadays we have 7 and 14 Mc fundamental
> xtals abounding so I went the route of reinventing the wheel so to speak.
>
> The rig is working at this stage...at least straight thru on 40. Waiting
> for some other bits and bobs to carry on to other bands. The note
> sounds good and its nothing I'm reluctant to put on the air. On the
> other hand its a massive amount of wood and metal for a measly 5 or 6
> watts :) A little slatboard 6V6 chirper would have been much easier.
>
> Anyway, I'm not a veteran with old xmtrs so I'm putting it out for
> comments, questions, critiques, etc. Flame suit is handy!
>
> Schematic:
> http://i132.photobucket.com/albums/q18/billynaty/1stXmtr/schema111108.jpg
>
> View:

> http://i132.photobucket.com/albums/q18/billynaty/1stXmtr/Dscf1436.jpg
>
>
> -Bill WX4A/KP4

Nothing that pretty can possibly work.

:-)

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From 8740589202605062891
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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From: Stev eH
<StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfgh
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lyxdldf@tfif.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor
Date: Sat, 15 Nov 2008 22:57:39 +0000
Organization: Digital preserves music the way that formaldehyde preserves
 frogs. You kill it, and it lasts forever
Lines: 16
Message-ID: <gfnk50$ner$1@news.albasani.net>
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
     <gfk5ca$osk$1@news.albasani.net> <62e2cb0e-90c6-42ee-
a80b-9ace32b89730@u29g2000pro.googlegroups.com>
Reply-To:
StevehkhhSDJvhvbjjxbvvbhnvbhzjdnxzvzhzdshbvnjzvnbvnvjbvbcjbvvvvnmxvzjhjzsdgfgsfghg
jsghgsljhglhdjfghfufgfhzysgfhczgugfvzlvufzvllgfzlyfyvlgbylvdfghvblyrylxybvryvbfbll
yxdldf@tfif.co.uk
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
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Jzc1Ky4MFfM0lcJQzBZ3C+MDDWMfVTx/GXWHbausxfcE7dCmGR1PPFrJ/Z3xJr
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Sat, 15 Nov 2008 22:57:36 +0000 (UTC)
X-User-ID: WZePKOe7COt53oi2KisDEq8cHBNmWRta03RafQqo3sc=
In-Reply-To: <62e2cb0e-90c6-42ee-a80b-9ace32b89730@u29g2000pro.googlegroups.com>
Cancel-Lock: sha1:t10NX6KAtUUxD+yfFHZIf0y3a/Q=
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
X-NNTP-Posting-Host: algWlyxO6CFfxy4fOWKmcCEOFtybfAAVFMatXCloYxA=
Xref: g2news1.google.com rec.radio.amateur.homebrew:1174

Tel star Electronics briangriffey@sbcglobal.net
<briangriffey@sbcglobal.net>  wrote:
>> What has a ready made module got to do with home brew?
>> Steve H
>
> SteveH, it has everything to do with home brew... if your goal is to
> substantially increase the performance of your rig.
> www.telstar-electronics.com
>
Most people would build one rather than buy one and many would even
design one based on RF processing as this would be far better for
amateur use.

You would be far better off targeting gullible CB users.

Steve H


From -8585973633770189287
X-Google-Thread: fc2a5,fc6cbb34a018c5bc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 15 Nov 2008 17:11:49 -0600
Date: Sat, 15 Nov 2008 23:11:49 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
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Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor
References: <b40ffb0b-7e1c-4535-ac51-f05846d00dec@d36g2000prf.googlegroups.com>
     <gfk5ca$osk$1@news.albasani.net> <62e2cb0e-90c6-42ee-
a80b-9ace32b89730@u29g2000pro.googlegroups.com> <gfnk50$ner$1@news.albasani.net>
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NNTP-Posting-Host: 64.33.199.218
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```

```
2UgEW0ATLQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1175

Stev eH wrote:
> Tel star Electronics briangriffey@sbcglobal.net
> <briangriffey@sbcglobal.net>  wrote:
>
>>> What has a ready made module got to do with home brew?
>>> Steve H


Actually, those little voice recorder modules that Radio Shack used to
sell (don't know if they still do) was used in my homebrew 2M foxhunt
transmitter for voice ID on FM...

Scott



From -7780736692498729232
X-Google-Thread: fc2a5,b2ec69f4d35c5dd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news3
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question about unwanted VFO pulling during transmit
Date: Tue, 18 Nov 2008 22:25:11 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 20
Message-ID: <gfvte901ocv@news3.newsguy.com>
References: <8a21c62a-4311-4e3b-a0fc-01808006b7df@u29g2000pro.googlegroups.com>
     <xzHUk.263558$4p1.157377@en-nntp-09.dc1.easynews.com> <5c53c4a1-f124-45e4-
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Xref: g2news2.google.com rec.radio.amateur.homebrew:1523

Kendal Goodson wrote:

> I've located the problem.  I thought it would be something pretty
> subtle and it turned out to be just that.  One of the pins on the
> SA612 did not go into the socket properly.  It bent under and was just
> almost touching the socket contact. I guess it was capacitively
```

> coupling to the VFO output instead of getting a good feed. I've
> straightened it and I'm up and running.
>
> Thanks for all of the suggestions.
>
> 72,
> Kenn
> KA5KXW

Ah, good detective work. I would have never seen that coming!

-Bill

From 5623662526709156812
X-Google-Thread: fc2a5,37223fde4143a718,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: FINNISH,ASCII
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newsfeed.freenet.de!news.tu-darmstadt.de!newsfeed.velia.net!noris.net!not-for-mail
From: Ismo Bergman <bergman@snider.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Auton viritt�minen
Followup-To:
sfnet.harrastus.audio+video.autohifi,sfnet.harrastus.itsepuolustus,sfnet.keskustel
u.psykologia,rec.radio.amateur.homebrew
Date: Wed, 19 Nov 2008 03:38:37 +0000 (UTC)
Lines: 169
Message-ID: <gg01np$kv9$1@ork-un.noris.net>
References: <_YOck.168$%L5.55@read4.inet.fi>
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Mime-Version: 1.0
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GMT)
X-Complaints-To: news@noris.net
NNTP-Posting-Date: Wed, 19 Nov 2008 03:38:37 +0000 (UTC)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1227

Ilmastointimysteerio.

Nyt kuin olin p��ssyt j�ljille siit� mekanismista joka k�tket��n
ydinvoimalan systeemeihin n�k�j��n aivan kylm�sti, aloin pohtimaan
mieless�ni useita kummallisilta tuntuneita tapauksia ydinvoimalan
starttaamisten alkuajoilta. ASEA:n ty�l�isilt� olin saanut kuulla er��n
varsin kummallisen v�itt�m�n ja turvaohjeen. Henkil� oli sit� mielt�, ett�
viimeist��n noin vuosi ydinvoimalan k�ynnistymisest� eteenp�in olisi syyt�
oman turvallisuutensa vuoksi vaihtaa muihin elossa pit�vimpiin hommiin.
Kysytt�ess� syyt� moiseen, h�n v�ltellen lis�keskusteluja oli vain
kuitannut, ett� olisi syyt� seurata alkuaineiden kulkeutumista ydinvoimalan

poistoilman piipun ns. "pyyhk�isytuloksissa"? Kyseiselt� oli tivattaessa irronnut senverran lis�tietoa, ett� nimenomaan kromista on puhe. My�hemmin olen sitten selvitellyt taustoja my�s t�st� tarkemmin. Sanotaan t�h�n aluksi tukitietona, kromi kuuluu siihen erityisen haitalliseen alkuaineryhm��n, jota pitk�aikainen s�teily eroosioi voimalaitoksen rakenteista. Kromin kemikalisaatiomyrkkyin� tunnettu on mm. pel�tty 6-arvoinen kromi. Joka on vaarallinen mm. kyvyst��n aiheuttaa sy�p��. Ja sen kulkeutumismekanismi nimenomaan ilmastointiin on l�hinn� tieto siit�, kuinka pitk�ll� voimalaitoksen "yleiss�teilytausta" on kyennyt jo vakiintumaan.

Normaalilla ty�l�isell� ei toki ole edes teoreettista mahdollisuutta saada moista selville, mutta TVO:n laboratoriossa kyll� n�it� salaisia pyyhk�isykokeita alusta asti kyll� tehtiin. En halua sen tarkemmin kertoa t�h�n henkil�iden nimi�, mutta kun t�m� etenev� kriittinen kromil�yt� aikanaan sitten mitattiin, l�hti saman tien ydinvoimalasta tilanteen tiet�neet ja siit� selvill� olevat harvat. Kuvaavaa t�ss� vaiheessa oli, ett� henkil�, joka joutui t�h�n savupiippuun hakeutumaan joutui k�ytt�m��n rajua suojavarustusta tiedon kromiatomeista tultua julki. Moninkertaista suojahaalaria ja hengityssuojaimia ja vastaavia oli siit� p�iv�st� asti pakko k�ytt��. Joten oli mit� ilmeisint�, t�m� kromin mystinen kulkeutuminen, juuri kuten ennakoitiin ei ollut mik��n jonninjoutava heitto. Vaan ydinvoimaloissa oli her�nnyt henkiin jotain salattua ja kuoletettavaa keskuuteemme. Siit� p�iv�st� l�htien ei juuri ollut halukkaita t�h�n jokavuotiseen perushuoltokeikkaan vaihtamaan piipun ns. lentovaloja. Jollain tasolla kaikki vaan tiedosti kyseess� ei ollut mik��n harhakuva vaarasta. Mutta mik� viel� t�ss� vaiheessa h�mm�stytti, oli mist� mekanismista moinen voisi johtua?

Ehk� t�h�n on sopivaa kertoa vastaavantyyppinen sen aikuinen episodi my�s laitoksen nimenomaan ilmastointiin liittyv��n tapaukseen. On todella kummeksuttava havaita ett� juuri ilmastointi on niin keskeinen tekij�. Sill� on koko laitosalueella musertava perusominaisuus. Kun liikkuu ydinvoimaloiden sis�rakennuksissa ja erityisesti tietyiss� huoneissa huomaa ��rimm�isen meluisan ja vastenmielisen, suorastaan py�rremyrskym�isen ilmanvaihdon k�yt�nn�ss� kaikkialla. Ihmetelt�vint� on siin�, ett� tuuletusta ei moisissa mitoissa mill��nlailla l�mp�- saati hapetussyist� niin massiivisena tarvita. Ihmisi� teknisiss� tiloissa ei ole kuin satunnaisesti. Samoin j��hdytett�v�n� ei usein ole kuin satunnaista tekniikkaa, mutta aina l�sn�oleva hatun p��st� repiv� ylett�m�n suuri ja meluisa ilmastointi. Niin siit� ei p��se juuri miss��n laitoksen 1500 huoneissa eroon. Sitten sen seuralaisena on er�s viel� oudompi tekij�. Kun menee laitoksen sis�osiin aamuvirkkuna, ei siell� tarvitse olla kuin reilun tunnin, niin raukeus iskee. En siis tarkoita mit��n normaalia kyll�stymist�, vaan totaalista energian katoa elimist�st�. Olen joutunut sen kymmenet kerrat raahaamaan melkein jalattomaksi k�yneit� raavaita ja hyv�kuntoisia alle 20v kes�harjoittelijoita n�ist� huoneistoista. On liki mahdotonta ymm�rt�� sit�, miten virke� elimist� voi silmiss� rojahtaa jo reilun tunnin sis�ll� niin veltoksi, ettei ty�kaveri saa juuri sanaa suustaan.

Olen t�t� useasti tuuminut ja kysellyt aiheesta my�s laitoksen ylemmilt�. Vastaus on mit��nkertomaton ja yleens� vedotaan tiloissa pidett�v�n "turvallisuussyist�" alipainefaasia ja muut l�pin�kyv��. No sanomatta on selv��, ett� halusimme alkuaikoina saada puhaltimia pitemm�n ty�n tehdess�mme seisokkihuolloissa pois. Vaan aina tylysti sanottiin, ettei mill��n k�y. Koskaan muuta ei selitelty. Kun kysyi ulko-ovien aukipit�mist� hapen saamiseksi, sama kiertelev� vastaus. Kun ei k�ynyt , niin ei k�ynyt. Ihmettely omassa mieless� vain kasvoi. Kyll� t�h�n nyt liittyi jotain aivan ymm�rryksen ylitt�v�� ja ennen kaikkea ��rimm�isen tarkoin salattua. Jotain sellaista, joka tietona on elint�rke�� saada selvitetty� itselleen. Jokin asiassa m�tti ja pahasti!

Viel� er�s varsin keskeinen muistelus. My�s laitoksen ilmastointiin kytkeytyv�. Olin laitoksella tekem�ss� rutiininomaisia vuosihuoltoja. T�ll� kertaa teht�v�kenttiini kuului k�yd� l�pi ty�kavereineni puhaltimien kunnossapitotarkastuksia ja muita perushuoltoja laitosrutiinihuoltoina. Ei siin� mit��n olihan laitteistot tuttuja ja kiva saada my�s uusia kokemuksia ja vaihtelua puuduttaviin perusrutiineihin. Puhallinkoneistot ovat luonteeltaan massiivisia miehenkorkuisia monimetrisi� s�hk�moottorik�ytt�isi� meluisia yksik�it�. Niit� huollettiin miehenment�vist� peltiluukuista. Rutinoituneesti siis aamulla kyselin ja selvittelin mist� ja milloin saisin katkaista aina kyseisen ilmanvaihtokoneen k�ytt�s�hk�t menness�mme koneiden sis��n. Silloin sain kuulla lauseen jota en koskaan unohda. Aina, ihan aina oli painotettu, ett� ehdottomasti joka tilanteessa kun laitteita huolletaan on kaikki s�hk�t katkaistava. T�t� p�iv�� ennen turva-ajattelu oli t�ss� t�ysin ehdoton. S�hk�t katkotaan ennen huoltoa pois. Nyt kuin salama kirkkaalta taivaalta oli tullut laitosp��llik�ilt� ehdoton vaatimus. Koneet huolletaan ehdottomasti k�yvin�!

Siin� vaiheessa luonnollisesti kielt�ydyin moisesta hengenvaaraan asettumisesta, niin itseni, kuin ty�kaverieni osalta. Koska en t�ss� vaiheessa saanut selke�� vastausta h�milleen menneelt� ty�njohtajaltani edes tivattaessa, sanoin soittavani aina valvomoon sammuttaessani kyseisen puhallinkoneiston. Saavuimme ty�paikalle ja soitin, juuri kuten olin ilmoittanut aina katkaistessani kyseisen laitteiston. Hetken aikaa kaikki meni rutiinisti ja hommat tulivat tehty�. Mutta siin� vaiheessa, kun aloimme k�yd� l�pi nimenomaan valvomon puhallinlaitteistoja alkoi kuulutuksesta kaikua vaatimus ilmoittaa toistamiseen tehdyst� irtikytkenn�st� varsin k�skev�sti. Ilmoitettuani toimenpiteen koordinaatistot ja syyn siihen vaadittiin ilmastointikojeistojen v�lit�nt� takaisinkytkemist�. Kummastelin jo t�ss� vaiheessa miten on mahdollista, ett� useiden rinnakkain samaan ilmastointikanavaan puhaltavien flektien yksitt�ispys�ytys ei muka olisi mahdollista? Nimitt�in aina oli my�s TVO:n kursseissa korostettu miten jo yksi ainokainen rinnakkaislaite takaisi jopa kriisin sattuessa turvallisen prosessin etenemisen. Aina juuri t�h�n asti oli korostettu, ettei yhden, kahden, tai per�ti kolmen rinnakkaislaitteen poistumisella k�yt�st� olisi mit��n vaaraa turvallisuuden kannalta. Saati muun prosessinhallinnan vaikeutumisen osalta. Ja nyt yht�kki� sanottiin jo yhden koneiston hetkellisen huoltoseisokki aiheuttaa turvavaaran! Olin �llik�ll�, huomasin my�s viimeist��n t�ss� vaiheessa miten totuus ja koulutusmateriaali oli irti toisistaan. Tottakai j�timme huoltoseisokkikierroksemme tekem�tt� ja palasimme perin kummalisin tunnoin majapaikkaamme. Eteemme oli kuin v�l�yksenuomaisesti kohonnut jotain ennenn�kem�tt�m�n uhkaavaa ydinalaan liittyv��.

Kyselin vaisulta ty�njohtajalta asiaan liittyvi� taustoja ja per�ti merkillisi� juonik��nteit�. Mit��n selke�� raportointia en itse asiassa koskaan saanut. Tiedustelin ponnekkaasti my�s sit� miten edes teoriassa voidaan vaatia henkil�kunnan suorittavan moisen kamikazehuollon. Eik� edes ty�turvavaltuutetulla, tai p��luottamusmiehell� ollut mit��n sanottavaa? Ainoa vaikutus tilanteelle oli kun sain siirron sellaiselle ty�paikalle jossa en joutunut vastaavaan rupeamaan. My�hemmin kyselin miten ylip��t��n kukaan voi huoltaa hengenvaarallisesti ilmastointilaitteet, niin vastattiin vaan yliolkaisesti ettei ole minun murheeni. Sen verran sain j�lkik�teen kuulla, ett� koneet siit� lukien tosiaan huollettiin henke� pid�tellen ja k�yvin�! Uteliaisuuteni her�si ja p��tin selvitt�� mist� moinen hysteria ja suunnaton pelko ilmastoinnin kohdalla perimm�lt��n kertoi. Sain, kuin sainkin selvyyden laitostoimittaja ASEA:n osaajilta, ett� kyseess� oli varsin tarkoin varjellun ydinlaitossalaisuuden tietoinen pimitt�minen henkil�kunnalta. Jos tieto vuotaisi julkisuuteen, sen esitt�j�� kohtaisi irtisanomiset ja vastaavat sanktiot! Mist� oli perimm�lt��n kyse? Ydinvoimaloiden ilmastointiin liittyy mekanismi, joka vaatii tauotonta ilmanvaihtoa kaikissa niiss� tiloissa, joissa edes v�h�n on s�teilyenergiaa. Eli turbiinisalit ja reaktorihallit, asiassa kaikki "tekniset tilat" henkil�st�konttoritiloja ja valvomoa lukuun ottamatta pit�� olla tauottoman ilmahuuhtelun piiriss�. Sain kuulla miten pahimmillaan jo noin 15 min ilmastointikatkos saattaa kyseiset tilat radioaktiivisiksi ja niin kova s�teily niiss� silloin jo on, ett� syntyy hengenvaaraa. Jos esimerkiksi n�ist� teknisist� tiloista ilma virtaa v��rinp�in valvomoon, niin henkil�st� on v�litt�m�ss� kuolemanvaarassa!

En mill��n saattanut ymm�rt�� mekanismia, jossa ei s�teilydosimetri edes n�ytt� mit��n muuttaa noin nopeasti ilman niin vaaralliseksi, ett� hengenl�ht� konkreettisesti on mahdollista. T�m� oli joko t�rke� vale, tai sitten joku ei ymm�rt�nyt, mit� puhui. Mutta koska tilanteessa sain ty�paikanvaihdoksen selityksitt� osakseni ja kun huomioin laitosp��llik�n ylireagoinnin huomasin osuneeni johonkin t�ysin siihenastisen ydink�sityskyvyn ylitt�neeseen totuuden sis�lt�v��n miinakentt��n. Siit� p�iv�st� asti olen suoraan sitoutunut selvitt�m��n t�t�, ehk� koko nykyfysiikan tarkemmin varjeltua salausvyyhti�. T�ytyy sanoa jos olisin alusta asti tiet�nyt sen kaikki seurannaiset ja juonenk��nteet, niin ehken olisi koskaan ryhtynyt selvitysty�h�n. Ty�h�n, jonka seurauksena t�m� edess� oleva ��rimm�isen salatun ydinsalaisuuden Bandoran lippaan aukaisu sitten vaikeuksien j�lkeen onnistui! On suorastaan uskomatonta, miten juuri t�st� tapauksesta sai alkuunsa se mekanismi, joka toi p�iv�nvaloon v�hitt��n 60v ajan ��rimm�isen tarkoin varjellun salaisuuden. Jonka varjelemiseksi on perustettu mm. IAEA:n kaltaisia ydintiedon levityksen est�vi� maailmankattavia organisaatioita, mutta eip�s t�ss� vaiheessa paljasteta enemp��. Seuratkaamme eteenp�in, miten kaikki mysteerist� porras kerrallaan alkoi raottua. Haluan lis�t� t�h�n, sain my�hemmin kuulla, ett� minut nimenomaan haluttiin t�h�n ratkomaan jo pitk��n hiert�nytt� ty�turvallisuusdilemmaa. Ja sain kuulla, miten varsin selke�sti p��navaukseni j�lkeen koko ilmanvaihtoflektien huoltorutiini muutettiin sellaiseksi, ett� laitteita alettiinkin vain kuulustelemaan laakerien kunnon varmistukseksi. Vain pys�htyneet laitekokonaisuudet tehd��n virrattomaksi korjaamisensa ajaksi. Eli olin tehnyt teht�v�ni ja sain kontolleni entist� vaativampia ty�vastuukentti�.

From 2390006628454035240
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!v39g2000pro.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
Date: Wed, 19 Nov 2008 05:23:05 -0800 (PST)
Organization: http://groups.google.com
Lines: 39
Message-ID: <a3e7a9b2-5f0f-40b2-a2d2-1bd410b26f2c@v39g2000pro.googlegroups.com>
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com>
<bt41i4tcebp44tl0694j629jbn1be81cnq@4ax.com> <8795bf5a-715c-4a24-8290-ab69d748782a@e1g2000pra.googlegroups.com>
<Uv2dnWJjtbYj9r7UnZ2dnUVZ8hydnZ2d@pipex.net>
NNTP-Posting-Host: 76.226.127.85
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227100985 19403 127.0.0.1 (19 Nov 2008 13:23:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 19 Nov 2008 13:23:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v39g2000pro.googlegroups.com; posting-host=76.226.127.85;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1525

The UC3906 is temp compensated unlike zeners which go up with temp rise and down with temp decrease. Believe me 1/10 of a volt change will fawk up the charge rate. Been there done that.

I've quick charged deep cycle marine batteries at work when I forgot to put my battery on charge on my electric bike. 55 amp in one hour no problem. Now I was using this my electric bike every day to gits to work. I got 2 years out of that deep cycle marine battery before my brushes on my motor were no longer available from Grainger. I didn't count the times I quick charged the battery at 55 amp rate but it was quite a few.

If this isn't any everyday thing make it simple, no frilles But a automotive in car charging system is the worst thing anybody to do to a battery. I'd let my battery sit on cold concrete before I'd charge it with an automotive charging system in a car.

73 OM

n8zu

```
> > I didnt think you could charge a deep cycle battery in an
> > automotive system without damaging the battery. Its my understanding
> > that car batteries are designed for a quick charge at realativly high
> > current while deep cycle batteries require a long low current charge.
> > To make it work thought you had to have a special charge regulator for
> > the deep cycle battery.
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D
> 'Deep Cycle' batteries should be charged with a current not exceeding
> 0.1C , =A0meaning that a 80Ah battery should be charged with a current no=
t
> exceeding 8 Amperes.
>
> Frank =A0 KN6WH



From 6074677155563964788
X-Google-Thread: fc2a5,e8752fa566cbcb04
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.r-kom.de!fu-
berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Wanted: one of those hat guys
Date: 19 Nov 2008 14:55:03 GMT
Lines: 9
Message-ID: <slrngi8a67.2ss4.bit-bucket@shell.config.com>
References: <gfk7ea$bju$1@reader1.panix.com>
X-Trace: individual.net gqEWNlUY068P2Bmv/V5zqg0MEGvg9+2bz3v9O43I0P1/LBT8jK
Cancel-Lock: sha1:qm/zYGOBBOXuCc8yGtWN8DjqaWY=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.misc:1568
rec.radio.amateur.homebrew:1229

On Fri, 14 Nov 2008 16:02:18 +0000 (UTC), David Lesher wrote:
>
> The ones that go to hamfests and custom embroider a name/logo onto a hat.
>
> There being no hamfests in the DC region for many months, and me having
> never asked their names/locations..... I thought this might be a place
> to ask.

HUH!?!?  They don't have Google where you live?


From 3984691090268517024
```

```
X-Google-Thread: fc2a5,ceb23819535b6fed,start
X-Google-Thread: 107ada,ceb23819535b6fed,start
X-Google-Thread: 110c99,ceb23819535b6fed,start
X-Google-Attributes: gidfc2a5,gid107ada,gid110c99,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
i18g2000prf.googlegroups.com!not-for-mail
From: tyreemand@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: Over 80,000 images of beautiful busty women
Date: Wed, 19 Nov 2008 06:58:44 -0800 (PST)
Organization: http://groups.google.com
Lines: 4
Message-ID: <844e62be-851a-43f6-b746-4a5eb7f7f386@i18g2000prf.googlegroups.com>
NNTP-Posting-Host: 92.112.131.116
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1227106724 3177 127.0.0.1 (19 Nov 2008 14:58:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 19 Nov 2008 14:58:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i18g2000prf.googlegroups.com; posting-host=92.112.131.116;
     posting-account=8N4mVgoAAABmLLkJQvSeZsuS_r9oM6nG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:853
rec.radio.amateur.homebrew:1230 rec.radio.amateur.misc:1569 rec.running:5207
rec.scouting.issues:944
```

http://dunny.withsex.com/ Home of the worlds most downloaded woman,
Danni Ashe. Over 80,000 images of beautiful busty women, nude images,
centerfolds, and porn stars. Original video features, live video
feeds, daily updates.

```
From 2265852719551127718
X-Google-Thread: 107ada,e8752fa566cbcb04
X-Google-Thread: fc2a5,e8752fa566cbcb04
X-Google-Attributes: gid107ada,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 19 Nov 2008 09:38:25 -0600
Date: Wed, 19 Nov 2008 15:38:25 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
```

20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Wanted: one of those hat guys
References: <gfk7ea$bju$1@reader1.panix.com> <slrngi8a67.2ss4.bit-
bucket@shell.config.com>
In-Reply-To: <slrngi8a67.2ss4.bit-bucket@shell.config.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <TaWdndXOmOVsr7nUnZ2dnUVZ_j2dnZ2d@bright.net>
Lines: 13
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-cLpPYxd9mGzjV8PWw6M6TteIDJ/
J7QT29kAAIaoEnLc3cL5ig4B4TklEMJM5LcpaExQc4BtSA31qoZm!
p97VXHivaSsgcaS4aYFfnn5AAKYMy0BhzSFNZ8xEis5cGVv8ID0qGsKMmen9Gq7EqhfwWhI+rt1L!
G0Tq+sLTOA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.misc:1570
rec.radio.amateur.homebrew:1231

Allodoxaphobia wrote:
> On Fri, 14 Nov 2008 16:02:18 +0000 (UTC), David Lesher wrote:
>
>>The ones that go to hamfests and custom embroider a name/logo onto a hat.
>>
>>There being no hamfests in the DC region for many months, and me having
>>never asked their names/locations..... I thought this might be a place
>>to ask.
>
>
> HUH!?!? They don't have Google where you live?

HUH!?!? Google makes hats too??? ;)

From 5730820698028012074
X-Google-Thread: fc2a5,b2ec69f4d35c5dd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
u29g2000pro.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question about unwanted VFO pulling during transmit
Date: Wed, 19 Nov 2008 10:04:32 -0800 (PST)
Organization: http://groups.google.com
Lines: 53
Message-ID: <3a55ebf2-9fef-4c37-8c8c-df642d1c245a@u29g2000pro.googlegroups.com>

```
References: <8a21c62a-4311-4e3b-a0fc-01808006b7df@u29g2000pro.googlegroups.com>
     <Xns9B5A6973E4A342MDWN@194.177.96.78> <c6d9a871-5210-4248-a5bc-
eb7e2c323a58@w1g2000prk.googlegroups.com>
     <gfv4fp01d8l@news5.newsguy.com> <94ddf96b-a61d-4e16-b5c2-
c4dd1d72e488@v22g2000pro.googlegroups.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227117872 30221 127.0.0.1 (19 Nov 2008 18:04:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 19 Nov 2008 18:04:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u29g2000pro.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1232

On Nov 18, 5:21=A0pm, Kendal Goodson <kend...@yahoo.com> wrote:
> On Nov 18, 1:19=A0pm, exray <radioex...@geeemail.com> wrote:
>
>
>
>
>
> > Kendal Goodson wrote:
> > > Thanks Grumpy. =A0I'll check supply voltage next. It's not a thermal
> > > problem. =A0The output is nice and stable until key down when it pull=
s.
> > > It's also frequency stable during keydown, just on a different
> > > frequency. =A0The oscillator isn't keyed, so I don't think it's an
> > > oscillator startup issue.
>
> > > 73,
> > > Kenn
>
> > I'm missing something. =A0You said that the 'driver' etc were disconnec=
ted
> > and the osc is not being keyed.
>
> > So what is actually being keyed?
>
> > -Bill
>
> I see I've done a poor job of writing up the problem statement. =A0The
> VFO at ~3.050 feeds a SA612 whose internal oscillator runs at 4.0 Mhz
> and mixes the two to come up with ~7.050Mhz. =A0Output from the mixer
> goes through a tuned bandpass filter to a class A driver and then to a
> class C final. =A0When I found I had a problem with the VFO staying on
> frequency during transmit, I disconnected the driver stage and
> replaced it with a resistor termination. =A0The problem stayed
```

> consistent. =A0The SA612 and the buffer/driver stage are both keyed.

Ahah! The SA612's input impedance will change by a lot when it is
keyed up vs keyed down.

Two ways to get around this:

1. Additional buffering between the VFO and SA612

2. Swamp the impedance change from power up to power down by adding
some parallel resistance. Should be DC-isolated from the SA612's input
because otherwise you will upset the balance.

Solution #1 requires some additional parts and current drain. I really
like the two-transistor W7EL buffer.

Solution #2 is just a capacitor and a resistor, but also assumes that
the VFO has enough drive that it won't object to being swamped.

Tim N3QE

From 7840968878606801530
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
Date: Wed, 19 Nov 2008 19:09:15 +0100 (CET)
Organization: Mostly In Piles
Lines: 51
Message-ID: <Xns9B5B7BA7B4F9F2MDWN@194.177.96.78>
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com> <bt41i4tcebp44tl0694j629jbn1be81cnq@4ax.com> <8795bf5a-715c-4a24-8290-ab69d748782a@e1g2000pra.googlegroups.com> <Uv2dnWJjtbYj9r7UnZ2dnUVZ8hydnZ2d@pipex.net> <a3e7a9b2-5f0f-40b2-a2d2-1bd410b26f2c@v39g2000pro.googlegroups.com>
NNTP-Posting-Host: hiV93AEoKx7REejYLGWG9w.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Wed, 19 Nov 2008 18:09:15 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1233

Howdy,

There are a of couple newer devices that you might like
even more than the UC3906. Check out the UC3909
and BQ2031.

All zeners are not created equal! The 1N825 is a common temperature compensated diode and it's uncommonly good. Transfer standards built in the 1960's and 70's often used zeners... and they were good enough by golly. The venerated Fluke 335D used an ion implanted or burried zener diode and it's still one of the most stable units available.

Here's the deal, the battery voltage varies with temperature. About minus 3 to minus 5 milivolts per degree C. Not very stable! (However for temperatures between 5C to 35C it can be safely ignored.)

Now if the circuit is exposed to the same ambient temperature as the battery and your reference drifts about the same amount and in the same direction as the battery, it can be only a good thing.

A true zener has a negative temperature coefficient.
An avalanche diode has a positive temperature coefficient.
The cross over point between the two effects is around 5.6V
A common silicon rectifier diode has a negative 2 milivolts per degree C coefficient.

It's not difficult to select a couple of parts that when combined in series will produce the minus 5 milivolts per degree C desired. A 6.8V zener in series with three 1N4001 running 1 milliamp of bias current is in the ball park.

Honest to god temperature compensated charging requires a temperature sensor in the battery (thermistor usually) but it's only needed where you're charging at a rate that heats the battery or when charging over a very wide range of ambient.

The above is just my opinion and all that jazz...

73,
Grumpy

From -4013231443728599193
X-Google-Thread: 1092c8,f09861d91fdcb813,start
X-Google-Thread: 10fe20,f09861d91fdcb813,start
X-Google-Thread: f4b90,75aba20dc1b38c15
X-Google-Thread: fc2a5,37223fde4143a718
X-Google-Attributes: gid1092c8,gid10fe20,gidf4b90,gidfc2a5,domainid0,public,usenet

```
X-Google-Language: FINNISH,ASCII
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe21.iad.POSTED!7564ea0f!not-for-mail
From: "NoSPAM" <unknown@nospam.org>
Newsgroups:
sfnet.harrastus.audio+video.autohifi,sfnet.harrastus.itsepuolustus,sfnet.keskustel
u.psykologia,rec.radio.amateur.homebrew
References: <_YOck.168$%L5.55@read4.inet.fi> <gg01np$kv9$1@ork-un.noris.net>
In-Reply-To: <gg01np$kv9$1@ork-un.noris.net>
Subject: Re: Auton viritt�minen
Lines: 33
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
X-RFC2646: Format=Flowed; Original
Message-ID: <jp_Uk.26$jd3.20@newsfe21.iad>
NNTP-Posting-Host: jnibogphckphemgkkgknfdakiclijcld
X-Complaints-To: abuse@charter.net
X-Trace:
jeofijbaflpkodfafkhgnhldfhiklkalelpmlnckmabcjkbpjnibogphckphemgkfllejjhdijjjcbpjpn
oeilbopabknalnkgejnhmhfnnjnliopmhmcfjfdpiikmldchpfalgfbjoakmml
NNTP-Posting-Date: Wed, 19 Nov 2008 20:10:55 UTC
Date: Wed, 19 Nov 2008 15:10:57 -0500
Xref: g2news2.google.com sfnet.harrastus.audio+video.autohifi:146
sfnet.harrastus.itsepuolustus:134 sfnet.keskustelu.psykologia:307
rec.radio.amateur.homebrew:1531


"Ismo Bergman" <bergman@snider.net> wrote in message
news:gg01np$kv9$1@ork-un.noris.net...
> Ilmastointimysteerio.
>
> Nyt kuin olin p��ssyt j�ljille siit� mekanismista joka k�tket��n
> ydinvoimalan systeemeihin n�k�j��n aivan kylm�sti, aloin pohtimaan
> mieless�ni useita kummallisilta tuntuneita tapauksia ydinvoimalan
> starttaamisten alkuajoilta. ASEA:n ty�l�isilt� olin saanut kuulla er��n
> varsin kummallisen v�itt�m�n ja turvaohjeen. Henkil� oli sit� mielt�, ett�
> viimeist��n noin vuosi ydinvoimalan k�ynnistymisest� eteenp�in olisi syyt�
> oman turvallisuutensa vuoksi vaihtaa muihin elossa pit�vimpiin hommiin.
> Kysytt�ess� syyt� moiseen, h�n v�ltellen lis�keskusteluja oli vain
> kuitannut, ett� olisi syyt� seurata alkuaineiden kulkeutumista
> ydinvoimalan
> poistoilman piipun ns. "pyyhk�isytuloksissa"? Kyseiselt� oli tivattaessa
> irronnut senverran lis�tietoa, ett� nimenomaan kromista on puhe. My�hemmin
> olen sitten selvitellyt taustoja my�s t�st� tarkemmin. Sanotaan t�h�n
> aluksi
> tukitietona, kromi kuuluu siihen erityisen haitalliseen alkuaineryhm��n,
> jota pitk�aikainen s�teily eroosioi voimalaitoksen rakenteista. Kromin
> kemikalisaatiomyrkkyin� tunnettu on mm. pel�tty 6-arvoinen kromi. Joka on
> vaarallinen mm. kyvyst��n aiheuttaa sy�p��. Ja sen kulkeutumismekanismi
> nimenomaan ilmastointiin on l�hinn� tieto siit�, kuinka pitk�ll�
> voimalaitoksen "yleiss�teilytausta" on kyennyt jo vakiintumaan.
```

This Finnish message belongs in Newsgroups about nuclear power, not in an amateur radio Newsgroup about home construction of radio equipment.

T�m� Suomen viesti kuuluu Uutisryhm�t noin ydinvoimaa, ei amat��ri radio Newsgroup noin kodin rakentamiseen radio.

```
From 4319553867679415689
X-Google-Thread: fc2a5,b2ec69f4d35c5dd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!e12g2000yqm.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question about unwanted VFO pulling during transmit
Date: Wed, 19 Nov 2008 17:18:46 -0800 (PST)
Organization: http://groups.google.com
Lines: 42
Message-ID: <8d078c7b-ddeb-43d6-afe3-cdc3f5c9cd24@e12g2000yqm.googlegroups.com>
References: <8a21c62a-4311-4e3b-a0fc-01808006b7df@u29g2000pro.googlegroups.com>
     <Xns9B5A6973E4A342MDWN@194.177.96.78> <c6d9a871-5210-4248-a5bc-
eb7e2c323a58@w1g2000prk.googlegroups.com>
     <gfv4fp01d8l@news5.newsguy.com> <94ddf96b-a61d-4e16-b5c2-
c4dd1d72e488@v22g2000pro.googlegroups.com>
NNTP-Posting-Host: 155.178.6.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227143927 8864 127.0.0.1 (20 Nov 2008 01:18:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 20 Nov 2008 01:18:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e12g2000yqm.googlegroups.com; posting-host=155.178.6.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1532

On Nov 18, 5:21=A0pm, Kendal Goodson <kend...@yahoo.com> wrote:
> On Nov 18, 1:19=A0pm, exray <radioex...@geeemail.com> wrote:
>
>
>
>
>
> > Kendal Goodson wrote:
> > > Thanks Grumpy. =A0I'll check supply voltage next. It's not a thermal
> > > problem. =A0The output is nice and stable until key down when it pull=
s.
```

> > > It's also frequency stable during keydown, just on a different
> > > frequency. =A0The oscillator isn't keyed, so I don't think it's an
> > > oscillator startup issue.
>
> > > 73,
> > > Kenn
>
> > I'm missing something. =A0You said that the 'driver' etc were disconnec=
ted
> > and the osc is not being keyed.
>
> > So what is actually being keyed?
>
> > -Bill
>
> I see I've done a poor job of writing up the problem statement. =A0The
> VFO at ~3.050 feeds a SA612 whose internal oscillator runs at 4.0 Mhz
> and mixes the two to come up with ~7.050Mhz. =A0Output from the mixer
> goes through a tuned bandpass filter to a class A driver and then to a
> class C final. =A0When I found I had a problem with the VFO staying on
> frequency during transmit, I disconnected the driver stage and
> replaced it with a resistor termination. =A0The problem stayed
> consistent. =A0The SA612 and the buffer/driver stage are both keyed.
>
> -Kenn- Hide quoted text -
>
> - Show quoted text -

Are you sure its the VFO and not the SA612?

Jimmie

From 4051822819652885781
X-Google-Thread: fcc6e,5c0762941c88f1c3,start
X-Google-Thread: fc8b1,5c0762941c88f1c3,start
X-Google-Thread: 108122,5c0762941c88f1c3,start
X-Google-Thread: fc2a5,5c0762941c88f1c3,start
X-Google-Thread: 1109af,5c0762941c88f1c3,start
X-Google-Attributes:
gidfcc6e,gidfc8b1,gid108122,gidfc2a5,gid1109af,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!
tmp-post01.iad!news.highwinds-media.com!not-for-mail
From: "K" <K@spam.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.boatanchors,rec.radio.amateur.equipmen
t,rec.radio.amateur.homebrew,rec.radio.swap
Subject: FA: R-390A built by ECA
Date: Wed, 19 Nov 2008 19:40:50 -0800
MIME-Version: 1.0
Content-Type: text/plain;

```
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
Lines: 6
Message-ID: <4924dc4b$0$4892$9a6e19ea@unlimited.newshosting.com>
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
NNTP-Posting-Host: 98.150.29.193
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.antenna:5539
rec.radio.amateur.boatanchors:1386 rec.radio.amateur.equipment:854
rec.radio.amateur.homebrew:1236 rec.radio.swap:879

FA: An excellent R-390A built by ECA

http://tinyurl.com/6ydbsg





From 2350857862659625590
X-Google-Thread: fcc6e,5c0762941c88f1c3
X-Google-Thread: fc8b1,5c0762941c88f1c3
X-Google-Thread: 108122,5c0762941c88f1c3
X-Google-Thread: fc2a5,5c0762941c88f1c3
X-Google-Thread: 1109af,5c0762941c88f1c3
X-Google-Attributes:
gidfcc6e,gidfc8b1,gid108122,gidfc2a5,gid1109af,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
feeder.erje.net!news2.arglkargh.de!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.boatanchors,rec.radio.amateur.equipmen
t,rec.radio.amateur.homebrew,rec.radio.swap
Subject: Re: FA: R-390A built by ECA
Date: Wed, 19 Nov 2008 22:49:27 -0800
Organization: albasani.net
Lines: 16
Message-ID: <gg319p$mj6$1@news.albasani.net>
References: <4924dc4b$0$4892$9a6e19ea@unlimited.newshosting.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net FNeNuWjmLBnS4W4f/oQKYiVb7py5gl/
ylEYEcJqAljUDDBIYtJT8+dY+2Br845fD10MqzjwY6n1BN7iYmwbIInUatjd9zTcK3kw8p6MlGcudyNWw3
NVimDwvSnNQRsXC
```

```
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Thu, 20 Nov 2008 06:49:29 +0000 (UTC)
X-User-ID: ygRjenhw2azNo2CmExNZQlQgIRb9cMEMm8gYaJpKpUM=
In-Reply-To: <4924dc4b$0$4892$9a6e19ea@unlimited.newshosting.com>
X-Antivirus-Status: Clean
X-Antivirus: avast! (VPS 081119-0, 11/19/2008), Outbound message
Cancel-Lock: sha1:4UZItPrOVFjABIzdsQEyr5TPbpY=
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
X-NNTP-Posting-Host: qdBE3PKg+BqpJzAXM+UScDNUTYzT5sQ0JiMjxWZfa6U=
Xref: g2news1.google.com rec.radio.amateur.antenna:5545
rec.radio.amateur.boatanchors:1387 rec.radio.amateur.equipment:855
rec.radio.amateur.homebrew:1237 rec.radio.swap:881

K wrote:
> FA: An excellent R-390A built by ECA
>
> http://tinyurl.com/6ydbsg

Wow, that brings back memories.  That is a receiver which came into
being right around when I did (1950's).

The tubes in it alone worth something (can be hard to get replacements
these days, just price them!)

I sat before one of those for untold hours in my younger days ... shame
SW is so empty these days ... :-(  It was an EXCELLENT RECEIVER ...

Regards,
JS


From -4234242712322004857
X-Google-Thread: fcc6e,5c0762941c88f1c3
X-Google-Thread: fc8b1,5c0762941c88f1c3
X-Google-Thread: 108122,5c0762941c88f1c3
X-Google-Thread: fc2a5,5c0762941c88f1c3
X-Google-Thread: 1109af,5c0762941c88f1c3
X-Google-Attributes:
gidfcc6e,gidfc8b1,gid108122,gidfc2a5,gid1109af,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad.newshosting.com!
newshosting.com!post02.iad!news.dslextreme.com!not-for-mail
Date: Thu, 20 Nov 2008 13:46:03 +0000
From: Dave <dave@dave.dave>
User-Agent: Thunderbird 2.0.0.17 (X11/20080925)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.boatanchors,rec.radio.amateur.equipmen
t,rec.radio.amateur.homebrew,rec.radio.swap
Subject: Re: FA: R-390A built by ECA
References: <4924dc4b$0$4892$9a6e19ea@unlimited.newshosting.com>
In-Reply-To: <4924dc4b$0$4892$9a6e19ea@unlimited.newshosting.com>
```

```
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 8
Message-ID: <49256a1b$0$31210$bd467cd0@news.dslextreme.com>
Organization: dslextreme.com
X-Complaints-To: abuse@dslextreme.com
Xref: g2news1.google.com rec.radio.amateur.antenna:5552
rec.radio.amateur.boatanchors:1388 rec.radio.amateur.equipment:856
rec.radio.amateur.homebrew:1238 rec.radio.swap:882

K wrote:
> FA: An excellent R-390A built by ECA
>
> http://tinyurl.com/6ydbsg
>
>
>
What's the green thing by the headphone jack?


From 2249814301082730973
X-Google-Thread: 108122,76380f8f1aff96ef,start
X-Google-Thread: fc2a5,76380f8f1aff96ef,start
X-Google-Thread: 107ada,76380f8f1aff96ef,start
X-Google-Thread: 110c99,76380f8f1aff96ef,start
X-Google-Thread: 111320,76380f8f1aff96ef,start
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g38g2000yqn.googlegroups.com!not-for-
mail
From: tyreemand@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: teen home made p0rn
Date: Thu, 20 Nov 2008 05:59:19 -0800 (PST)
Organization: http://groups.google.com
Lines: 2
Message-ID: <601adf02-8c98-4973-a9a2-c9f113aeae81@g38g2000yqn.googlegroups.com>
NNTP-Posting-Host: 92.112.152.87
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1227189560 3368 127.0.0.1 (20 Nov 2008 13:59:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 20 Nov 2008 13:59:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g38g2000yqn.googlegroups.com; posting-host=92.112.152.87;
     posting-account=8N4mVgoAAABmLLkJQvSeZsuS_r9oM6nG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:857
rec.radio.amateur.homebrew:1239 rec.radio.amateur.misc:1576 rec.running:5231
rec.scouting.issues:945

http://sambuko.freetzi.com/old.htm homemade lesbian p0rn,homemade p0rn
pics



From -8627665730771040836
X-Google-Thread: fcc6e,5c0762941c88f1c3
X-Google-Thread: fc8b1,5c0762941c88f1c3
X-Google-Thread: 108122,5c0762941c88f1c3
X-Google-Thread: fc2a5,5c0762941c88f1c3
X-Google-Thread: 1109af,5c0762941c88f1c3
X-Google-Attributes:
gidfcc6e,gidfc8b1,gid108122,gidfc2a5,gid1109af,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!u14g2000yqg.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.boatanchors,rec.radio.amateur.equipmen
t,rec.radio.amateur.homebrew,rec.radio.swap
Subject: Re: FA: R-390A built by ECA
Date: Thu, 20 Nov 2008 06:27:44 -0800 (PST)
Organization: http://groups.google.com
Lines: 13
Message-ID: <18c16b47-21b1-4abd-9239-7247964aaed7@u14g2000yqg.googlegroups.com>
References: <4924dc4b$0$4892$9a6e19ea@unlimited.newshosting.com>
     <49256a1b$0$31210$bd467cd0@news.dslextreme.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227191265 20800 127.0.0.1 (20 Nov 2008 14:27:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 20 Nov 2008 14:27:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u14g2000yqg.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:7334
rec.radio.amateur.boatanchors:1745 rec.radio.amateur.equipment:1072
rec.radio.amateur.homebrew:1537 rec.radio.swap:1305

On Nov 20, 8:46=A0am, Dave <d...@dave.dave> wrote:
> K wrote:
> > FA: An excellent R-390A built by ECA
>
```

> >http://tinyurl.com/6ydbsg
>
> What's the green thing by the headphone jack?

A very common modification, especially by the Navy, was to add a jack
there to monitor the diode load voltage, this makes their regular
maintenance much much easier. NAVSHIPS-0967-063-2140 documents this.

Tim N3QE

```
From 3062339746589941792
X-Google-Thread: fcc6e,5c0762941c88f1c3
X-Google-Thread: fc8b1,5c0762941c88f1c3
X-Google-Thread: 108122,5c0762941c88f1c3
X-Google-Thread: fc2a5,5c0762941c88f1c3
X-Google-Thread: 1109af,5c0762941c88f1c3
X-Google-Attributes:
gidfcc6e,gidfc8b1,gid108122,gidfc2a5,gid1109af,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!cyclone1.gnilink.net!gnilink.net!wns11feed!worldnet.att.net!
209.197.12.246!nx02.iad.newshosting.com!newshosting.com!post02.iad!
news.dslextreme.com!not-for-mail
Date: Thu, 20 Nov 2008 14:50:48 +0000
From: Dave <dave@dave.dave>
User-Agent: Thunderbird 2.0.0.17 (X11/20080925)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.boatanchors,rec.radio.amateur.equipmen
t,rec.radio.amateur.homebrew,rec.radio.swap
Subject: Re: FA: R-390A built by ECA
References: <4924dc4b$0$4892$9a6e19ea@unlimited.newshosting.com>
     <49256a1b$0$31210$bd467cd0@news.dslextreme.com>
<18c16b47-21b1-4abd-9239-7247964aaed7@u14g2000yqg.googlegroups.com>
In-Reply-To: <18c16b47-21b1-4abd-9239-7247964aaed7@u14g2000yqg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 20
Message-ID: <49257948$0$31175$bd467cd0@news.dslextreme.com>
Organization: dslextreme.com
X-Complaints-To: abuse@dslextreme.com
Xref: g2news1.google.com rec.radio.amateur.antenna:5557
rec.radio.amateur.boatanchors:1390 rec.radio.amateur.equipment:859
rec.radio.amateur.homebrew:1241 rec.radio.swap:885
```

Tim Shoppa wrote:
> On Nov 20, 8:46 am, Dave <d...@dave.dave> wrote:
>> K wrote:
>>> FA: An excellent R-390A built by ECA
>>> http://tinyurl.com/6ydbsg
>> What's the green thing by the headphone jack?

>
> A very common modification, especially by the Navy, was to add a jack
> there to monitor the diode load voltage, this makes their regular
> maintenance much much easier. NAVSHIPS-0967-063-2140 documents this.
>
> Tim N3QE

Isn't there a Diode Load terminal on the back already?

BTW: That paint job looks awful. Too shiny. I had 2 of those beasts
and liked a slightly worn look a lot better.

  They aren't that difficult to tweak to superior performance. I
wouldn't spend more than $500 for one with a good RF deck.

From -3593173250382797555
X-Google-Thread: 108122,5c0762941c88f1c3
X-Google-Thread: fc2a5,5c0762941c88f1c3
X-Google-Thread: 1109af,5c0762941c88f1c3
X-Google-Attributes: gid108122,gidfc2a5,gid1109af,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad.newshosting.com!newshosting.com!post02.iad!
news.dslextreme.com!not-for-mail
Date: Thu, 20 Nov 2008 14:54:45 +0000
From: Dave <dave@dave.dave>
User-Agent: Thunderbird 2.0.0.17 (X11/20080925)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.swap
Subject: Re: FA: R-390A built by ECA
References: <4924dc4b$0$4892$9a6e19ea@unlimited.newshosting.com>
     <49256a1b$0$31210$bd467cd0@news.dslextreme.com>
<18c16b47-21b1-4abd-9239-7247964aaed7@u14g2000yqg.googlegroups.com>
In-Reply-To: <18c16b47-21b1-4abd-9239-7247964aaed7@u14g2000yqg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 15
Message-ID: <49257a36$0$31174$bd467cd0@news.dslextreme.com>
Organization: dslextreme.com
X-Complaints-To: abuse@dslextreme.com
Xref: g2news1.google.com rec.radio.amateur.antenna:5558
rec.radio.amateur.boatanchors:1391 rec.radio.amateur.equipment:860
rec.radio.amateur.homebrew:1242 rec.radio.swap:886

Tim Shoppa wrote:
> On Nov 20, 8:46 am, Dave <d...@dave.dave> wrote:
>> K wrote:
>>> FA: An excellent R-390A built by ECA
>>> http://tinyurl.com/6ydbsg
>> What's the green thing by the headphone jack?

>
> A very common modification, especially by the Navy, was to add a jack
> there to monitor the diode load voltage, this makes their regular
> maintenance much much easier. NAVSHIPS-0967-063-2140 documents this.
>
> Tim N3QE

The NAVSHIPS document states that a Dymo label should be affixed by the jack.

```
From -5863615597100922397
X-Google-Thread: fcc6e,5c0762941c88f1c3
X-Google-Thread: fc8b1,5c0762941c88f1c3
X-Google-Thread: 108122,5c0762941c88f1c3
X-Google-Thread: fc2a5,5c0762941c88f1c3
X-Google-Thread: 1109af,5c0762941c88f1c3
X-Google-Attributes:
gidfcc6e,gidfc8b1,gid108122,gidfc2a5,gid1109af,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!k36g2000yqe.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.boatanchors,rec.radio.amateur.equipmen
t,rec.radio.amateur.homebrew,rec.radio.swap
Subject: Re: FA: R-390A built by ECA
Date: Thu, 20 Nov 2008 07:19:36 -0800 (PST)
Organization: http://groups.google.com
Lines: 24
Message-ID: <0b26492c-f2a9-4c63-945a-5dc0eee3b2ca@k36g2000yqe.googlegroups.com>
References: <4924dc4b$0$4892$9a6e19ea@unlimited.newshosting.com>
     <49256a1b$0$31210$bd467cd0@news.dslextreme.com>
<18c16b47-21b1-4abd-9239-7247964aaed7@u14g2000yqg.googlegroups.com>
     <49257a36$0$31174$bd467cd0@news.dslextreme.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227194377 30319 127.0.0.1 (20 Nov 2008 15:19:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 20 Nov 2008 15:19:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k36g2000yqe.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.antenna:5560
rec.radio.amateur.boatanchors:1392 rec.radio.amateur.equipment:861
rec.radio.amateur.homebrew:1243 rec.radio.swap:887
```

On Nov 20, 9:54=A0am, Dave <d...@dave.dave> wrote:

```
> Tim Shoppa wrote:
> > On Nov 20, 8:46 am, Dave <d...@dave.dave> wrote:
> >> K wrote:
> >>> FA: An excellent R-390A built by ECA
> >>>http://tinyurl.com/6ydbsg
> >> What's the green thing by the headphone jack?
>
> > A very common modification, especially by the Navy, was to add a jack
> > there to monitor the diode load voltage, this makes their regular
> > maintenance much much easier. NAVSHIPS-0967-063-2140 documents this.
>
> > Tim N3QE
>
> The NAVSHIPS document states that a Dymo label should be affixed by the
> jack.

Related to your other comment, I think that the one on the E-place has
been repainted.

My yellow striper came with the decades-old Dymo stickers still
attached. I swear the glues in modern Dymo labels aren't as good.

Tim.


From 2432823932243683792
X-Google-Thread: fc2a5,cdee7efcf11db754,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: FINNISH,ASCII
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.buerger.net!
allgaeu.org!speedkom.net!not-for-mail
From: Santtu Saarinen <saarinen@cabal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Viimeiset omenat, ....
Followup-To:
sfnet.atk.cbm,sfnet.atk.ohjelmointi,sfnet.tiede.bio,rec.radio.amateur.homebrew
Date: Fri, 21 Nov 2008 05:10:35 +0000 (UTC)
Organization: IDKOM Networks GmbH
Lines: 43
Message-ID: <a.1217372068_39263@51.59.194.203>
References: <HI9dk.30217$_03.19219@reader1.news.saunalahti.fi>
NNTP-Posting-Host: 84.38.64.85
Mime-Version: 1.0
Content-Type: text/plain;
Content-Transfer-Encoding: 8bit
X-Trace: isis.speedkom.net 1227244235 27743 84.38.64.85 (21 Nov 2008 05:10:35 GMT)
X-Complaints-To: abuse@speedkom.net
NNTP-Posting-Date: Fri, 21 Nov 2008 05:10:35 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1541

Eilen 27.04-08 haastatteli YLE Egybtin hallitusvirkamiest�.H�n kertoi
h�mm�styneen�, ettei maailmassa ole koskaan n�hty niin massiivista
```

monikymmenmiljoonaista kansanliikett� maansa historiassa , kun nyt liikkeelle l�hteneet "leip�kapinoinnit maassaan.!" Suorastaan musertavan hiljaa on tiedotusv�lineemme olleet siit�, ett� t�llaista on tapahtunut ja n�in laajasti jo pitk��n. Egybtin t�rkein ruoka kun ei ole puhuttu riisi vaan nimenomaan maailman yleisin ruoka leip�, eli USA:n VEHN�! Samalla viitattiin, ett� Afriikkaa runnoo jo massivoituva yleinen ruokapula kautta linjan.

Samalla tutkailtiin tilannetta my�s esim V�li-Ameriikan osalta, jossa useamman maan johtajien toimesta on pidetty hiljaisuudessa n�lk�palaveereja jo pitk��n. Eli tosiaan kyse ei n�iss� n�l�nh�t�tilanteissa ole mist��n pelk�st� riisist�. Vaan nyt loppuvat ydinaavikoitumisen jaloissa niin vehn�t, lihat,maidot, juustot, riisit kuin mitk� tahansa maailman hiipuvat rehuma�ssit t�ss� ja nyt! Ydinaavikoitumisen jaloista poistui niinik�� tosiaan kalat, ja jopa hunajat. Ja ennenkaikkea my�s mehil�isp�lytteisest� ruuan tuotannostamme k�yt�nn�ss� kerralla kaikki!

Niin hurjaksi homma n�ytt�� menev�n jo t�st� tulevasta superkuivasta kes�st�, ett� t�ytyy my�t�ill� Egybtin valtiovirannomaisia. "Niin paha ruokatilanne, ettei vastaavaa olla ikin� n�hty!".. ..Jaa t�m�n kes�n sato? No sanotaan, ett� siihen verrrattuna sent��n viime vuona tuli mehil�isp�lyteruuat ja meriss� oli kaloja. Nyt on edess� tosiaan maailmanhistoriallinen hetki kun TVO:n ydinkampamaneettikasvatus vei kalat ja jopa Japanin ja USA:n ydinlauhdemeret puskee jo enemm�n meduusoja, kuin paikoin vett�. Ja t�m� mehil�iskato.. .hui kauheaa. TODELLA alkaa maalaisille l�ytym��n k�ytt�� ja ruoantuotantomy�t��!! Eli vaikkei t�st� tule selvi�m��n ydinala, sen paremmin kuin siihen loppuunsa asti sitoutuneet kansat. niin jotain hyv��. Tilaa tulee kohta hurjasti ja olen veikannut, ett� CCCP mallin mukaan vuoteen 2018 menness� alkaa ydinala olemaan sellaisessa kansanmassojen paineistuksissa, ett� vet�� vertoja tuleviin ruokar�hin�ihin. Jahka tosiaan ydinalan syyllisyys alkaa laajasti hahmottumaan tulevissa "punaisen sateitten" aikakausissamme.

Mik� ihmen punaiset sateet? No s�teilyionisaatio synnytt�� globaalin s��rintamamuutoksen vesist�mekaniikkoihin joka on kovin tuttua s�teilyionisaatioilmi�iden ry�st�ytyess� nykytyyli� mennakoivasti oikein reippaasti. Min� en miss��n tapauksessa ole mik��n "ennustelija" vaan kylm�n viile� aasianosaava fyysikko! Mm. t�m�n punaisen sateen perusfysiikkaan voi osaava tutustua mm. Hiroshiman ja Nagasagin vapaammassa historiikissa, vaikka IAEA/syyllinen USA toki kaiken kiist�� yh�.

```
From -6182778191141736763
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
f13g2000yqj.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
Date: Thu, 20 Nov 2008 21:37:31 -0800 (PST)
```

```
Organization: http://groups.google.com
Lines: 53
Message-ID: <c4274c03-d9a5-404d-ad9c-d887366211a1@f13g2000yqj.googlegroups.com>
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com>
     <bt41i4tcebp44tl0694j629jbn1be81cnq@4ax.com> <8795bf5a-715c-4a24-8290-
ab69d748782a@e1g2000pra.googlegroups.com>
     <Uv2dnWJjtbYj9r7UnZ2dnUVZ8hydnZ2d@pipex.net> <a3e7a9b2-5f0f-40b2-
a2d2-1bd410b26f2c@v39g2000pro.googlegroups.com>
     <Xns9B5B7BA7B4F9F2MDWN@194.177.96.78>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227245852 26670 127.0.0.1 (21 Nov 2008 05:37:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 21 Nov 2008 05:37:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f13g2000yqj.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1245

On Nov 19, 1:09=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> Howdy,
>
> There are a of couple newer devices that you might like
> even more than the UC3906. =A0Check out the UC3909
> and BQ2031.
>
> All zeners are not created equal! =A0The 1N825 is a common
> temperature compensated diode and it's uncommonly good.
> Transfer standards built in the 1960's and 70's often
> used zeners... and they were good enough by golly. =A0The
> venerated Fluke 335D used an ion implanted or burried
> zener diode and it's still one of the most stable units
> available.
>
> Here's the deal, the battery voltage varies with temperature.
> About minus 3 to minus 5 milivolts per degree C. =A0Not very
> stable! =A0(However for temperatures between 5C to 35C it can be
> safely ignored.) =A0
>
> Now if the circuit is exposed to the same ambient temperature
> as the battery and your reference drifts about the same amount
> and in the same direction as the battery, it can be only a good
> thing.
>
> A true zener =A0has a negative temperature coefficient.
> An avalanche diode has a positive temperature coefficient. =A0
> The cross over point between the two effects is around 5.6V
> A common silicon rectifier diode has a negative 2 milivolts
```

> per degree C coefficient.
>
> It's not difficult to select a couple of parts that when
> combined in series will produce the minus 5 milivolts per
> degree C desired. =A0A 6.8V zener in series with three 1N4001
> running 1 milliamp of bias current is in the ball park.
>
> Honest to god temperature compensated charging requires a
> temperature sensor in the battery (thermistor usually)
> but it's only needed where you're charging at a rate that
> heats the battery or when charging over a very wide range
> of ambient.
>
> The above is just my opinion and all that jazz...
>
> 73,
> Grumpy

I hacked together a 10amp contant current source, actually it tuned
out to be a little les than 9 amps and hooked it up between one of my
100ahr batteries and my shop type battery charger. So far it behaves
as expected. I just hope it does the job as expected.

Jimmie

From 4630238465684981837
X-Google-Thread: fcc6e,f4f4fbe7f56a200d,start
X-Google-Thread: fc2a5,f4f4fbe7f56a200d,start
X-Google-Thread: 104fd2,f4f4fbe7f56a200d,start
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2!
nlpi057.nbdc.sbc.com!prodigy.net!flpi088.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!flpi148.ffdc.sbc.com.POSTED!ac3deb13!not-for-mail
From: DaveC <me@bogusdomain.net>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
Subject: WiFi antenna recommendations?
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Reply-To: me@bogusdomain.net
Lines: 15
NNTP-Posting-Host: 67.125.20.25
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi148.ffdc.sbc.com 1227253130 ST000 67.125.20.25 (Fri, 21 Nov 2008
02:38:50 EST)
NNTP-Posting-Date: Fri, 21 Nov 2008 02:38:50 EST
Organization: at&t http://my.att.net/
X-UserInfo1:

SCSYQNON]JTURSD[LRHDM^P@VZ\LPCXLLBWLOOAFEQR@ETUCCNSKQFCY@TXDX_WHSVB]ZEJLSNY\^J[CUVSA_QLFC^RQHUPH[P[NRWCCMLSNPOD_ESALHUK@TDFUZHBLJ\XGKL^NXA\EVHSP[D_C^B_^JCX^W]CHBAX]POG@SSAZQ\LE[DCNMUPG_VSC@VJM
Date: Thu, 20 Nov 2008 23:38:50 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:5613 rec.radio.amateur.homebrew:1246 alt.internet.wireless:3070

Looking for outdoor omni "whip" antenna for 2.4 GHz.

Is there any reason to not go for the greatest gain antenna, given that cost is not too important (within reason)?

There are scads of these on the 'net. I'm looking for someone who has experience with one or more of them and can make a recommendation for one.

Thanks,
--
DaveC
me@bogusdomain.net
This is an invalid return address
Please reply in the news group

From -8209631795048286290
X-Google-Thread: 108122,4ddfbd548e102dff,start
X-Google-Thread: fc2a5,4ddfbd548e102dff,start
X-Google-Thread: 107ada,4ddfbd548e102dff,start
X-Google-Thread: 111320,4ddfbd548e102dff,start
X-Google-Attributes: gid108122,gidfc2a5,gid107ada,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!f3g2000yqf.googlegroups.com!not-for-mail
From: tyreemand@gmail.com
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.running,rec.scouting.issues
Subject: BIG TITS WOMAN
Date: Fri, 21 Nov 2008 01:45:40 -0800 (PST)
Organization: http://groups.google.com
Lines: 1
Message-ID: <0d866c0b-11aa-43c6-a747-6a24dc4252b0@f3g2000yqf.googlegroups.com>
NNTP-Posting-Host: 92.112.218.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1227260741 2647 127.0.0.1 (21 Nov 2008 09:45:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 21 Nov 2008 09:45:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f3g2000yqf.googlegroups.com; posting-host=92.112.218.246;
posting-account=8N4mVgoAAABmLLkJQvSeZsuS_r9oM6nG

```
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:867
rec.radio.amateur.homebrew:1247 rec.radio.amateur.misc:1581 rec.running:5250
rec.scouting.issues:946

http://bigtitsov.servik.com/ BIG TITS WOMAN



From -3636109823524852827
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news4
From: exray <radioexray@geeemail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
Date: Fri, 21 Nov 2008 07:28:18 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 32
Message-ID: <gg660n021nt@news4.newsguy.com>
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
NNTP-Posting-Host: p94d1bfbfff00000061627838b76c8dc18da9c75205c3c338.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
Xref: g2news2.google.com rec.radio.amateur.antenna:7395
rec.radio.amateur.homebrew:1545 alt.internet.wireless:4177

DaveC wrote:
> Looking for outdoor omni "whip" antenna for 2.4 GHz.
>
> Is there any reason to not go for the greatest gain antenna, given that cost
> is not too important (within reason)?
>
> There are scads of these on the 'net. I'm looking for someone who has
> experience with one or more of them and can make a recommendation for one.
>
> Thanks,

Hi, not actually 2.4 Gig WiFi but cellular wireless modem card.  I
bought one of the small verticals with a magnet mount and cabling for
about $15 ppd as I recall.  My situation is that my house is built with
```

concrete/rebar construction, metal 'persiana' windows and screens and its hard to get a signal out of here even on the various cellular bands. I think the highest band there is 1.8 GHz.

I didn't go for gain since the path to the site is only about 1.3 miles away so I opted for the little guy, about 7 inches tall, that just sits on the roof. On the other hand, a friend in a different location got himself into all sorts of problems with reflections and multiple tower sites and is now looking for a directional antenna to minimize the clutter.

Another consideration is the vertical angle between you and the site. The "high gain" verticals (I've seen ones claiming 14db) have a rather flattened omni pattern so that if you have to look upwards to your intended site you might find the gain to be considerably less, if any.

GL,
Bill
Vieques, PR

From 1857466807640632210
X-Google-Thread: 1072a2,6e756e3ffcb2fb8f,start
X-Google-Thread: 108de2,6e756e3ffcb2fb8f,start
X-Google-Thread: fc2a5,cdee7efcf11db754
X-Google-Attributes: gid1072a2,gid108de2,gidfc2a5,domainid0,public,usenet
X-Google-Language: FINNISH,ASCII
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe01.iad.POSTED!7564ea0f!not-for-mail
From: "NoSPAM" <unknown@nospam.org>
Newsgroups: sfnet.atk.cbm,sfnet.atk.ohjelmointi,sfnet.tiede.bio,rec.radio.amateur.homebrew
References: <HI9dk.30217$_03.19219@reader1.news.saunalahti.fi> <a.1217372068_39263@51.59.194.203>
In-Reply-To: <a.1217372068_39263@51.59.194.203>
Subject: Re: Viimeiset omenat, {SPAN}
Lines: 60
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
X-RFC2646: Format=Flowed; Original
Message-ID: <7IyVk.23237$9Z6.13907@newsfe01.iad>
NNTP-Posting-Host: jnibogphckphemgkkgknfdakiclijcld
X-Complaints-To: abuse@charter.net
X-Trace: bcpcmoabmkbfloblfkhgnhldfhiklkalnifpkjfiklhhligmjnibogphckphemgkfllejjhdijjjcbpjmekhdooobockogbkkgejnhmhfnnjnliopdeghpmbocibglbochpfalgfbjoakmml
NNTP-Posting-Date: Fri, 21 Nov 2008 13:28:35 UTC
Date: Fri, 21 Nov 2008 08:28:34 -0500
Xref: g2news1.google.com sfnet.atk.cbm:140 sfnet.atk.ohjelmointi:317 sfnet.tiede.bio:101 rec.radio.amateur.homebrew:1249

Complaints about this Newsgroup SPAM should be sent to:<abuse@speedkom.net>,
<abuse@mci.com>,
<abuse@uu.net>,
<kuester@headlight.de>,
<abuse@ispone-business.de>

"Santtu Saarinen" <saarinen@cabal.net> wrote in message
news:a.1217372068_39263@51.59.194.203...
> Eilen 27.04-08 haastatteli YLE Egybtin hallitusvirkamiest�.H�n kertoi
> h�mm�styneen�, ettei maailmassa ole koskaan n�hty niin massiivista
> monikymmenmiljoonaista kansanliikett� maansa historiassa , kun nyt
> liikkeelle l�hteneet "leip�kapinoinnit maassaan.!" Suorastaan musertavan
> hiljaa on tiedotusv�lineemme olleet siit�, ett� t�llaista on tapahtunut ja
> n�in laajasti jo pitk��n. Egybtin t�rkein ruoka kun ei ole puhuttu riisi
> vaan nimenomaan maailman yleisin ruoka leip�, eli USA:n VEHN�! Samalla
> viitattiin, ett� Afriikkaa runnoo jo massivoituva yleinen ruokapula kautta
> linjan.
>
> Samalla tutkailtiin tilannetta my�s esim V�li-Ameriikan osalta, jossa
> useamman maan johtajien toimesta on pidetty hiljaisuudessa
> n�lk�palaveereja
> jo pitk��n. Eli tosiaan kyse ei n�iss� n�l�nh�t�tilanteissa ole mist��n
> pelk�st� riisist�. Vaan nyt loppuvat ydinaavikoitumisen jaloissa niin
> vehn�t, lihat,maidot, juustot, riisit kuin mitk� tahansa maailman hiipuvat
> rehuma�ssit t�ss� ja nyt! Ydinaavikoitumisen jaloista poistui niinik��
> tosiaan kalat, ja jopa hunajat. Ja ennenkaikkea my�s mehil�isp�lytteisest�
> ruuan tuotannostamme k�yt�nn�ss� kerralla kaikki!
>
> Niin hurjaksi homma n�ytt�� menev�n jo t�st� tulevasta superkuivasta
> kes�st�, ett� t�ytyy my�t�ill� Egybtin valtiovirannomaisia. "Niin paha
> ruokatilanne, ettei vastaavaa olla ikin� n�hty!".. ..Jaa t�m�n kes�n sato?
> No sanotaan, ett� siihen verrrattuna sent��n viime vuona tuli
> mehil�isp�lyteruuat ja meriss� oli kaloja. Nyt on edess� tosiaan
> maailmanhistoriallinen hetki kun TVO:n ydinkampamaneettikasvatus vei kalat
> ja jopa Japanin ja USA:n ydinlauhdemeret puskee jo enemm�n meduusoja, kuin
> paikoin vett�. Ja t�m� mehil�iskato.. .hui kauheaa. TODELLA alkaa
> maalaisille l�ytym��n k�ytt�� ja ruoantuotantomy�t��!! Eli vaikkei t�st�
> tule selvi�m��n ydinala, sen paremmin kuin siihen loppuunsa asti
> sitoutuneet
> kansat. niin jotain hyv��. Tilaa tulee kohta hurjasti ja olen veikannut,
> ett� CCCP mallin mukaan vuoteen 2018 menness� alkaa ydinala olemaan
> sellaisessa kansanmassojen paineistuksissa, ett� vet�� vertoja tuleviin
> ruokar�hin�ihin. Jahka tosiaan ydinalan syyllisyys alkaa laajasti
> hahmottumaan tulevissa "punaisen sateitten" aikakausissamme.
>
> Mik� ihmen punaiset sateet? No s�teilyionisaatio synnytt�� globaalin
> s��rintamamuutoksen vesist�mekaniikkoihin joka on kovin tuttua
> s�teilyionisaatioilmi�iden ry�st�ytyess� nykytyyli� mennakoivasti oikein
> reippaasti. Min� en miss��n tapauksessa ole mik��n "ennustelija" vaan

> kylm�n viile� aasianosaava fyysikko! Mm. t�m�n punaisen sateen
> perusfysiikkaan voi osaava tutustua mm. Hiroshiman ja Nagasagin
> vapaammassa
> historiikissa, vaikka IAEA/syyllinen USA toki kaiken kiist�� yh�.
>

```
From 8934864479808588451
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.speakeasy.net!news.speakeasy.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 21 Nov 2008 08:00:10 -0600
From: "Bill Kearney" <wkearney99@hotmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
Subject: Re: WiFi antenna recommendations?
Date: Fri, 21 Nov 2008 09:00:09 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>
Lines: 28
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 75.197.116.52
X-Trace:
sv3-38PPno1mwWJz9El2tznWi3FyKLjOOoz6pAtblUxKqDFh94OhMHhOFIlQ3f5gLAVey3alWdSpy1rBss
F!dFA8Q56TyrLZzsi88Xgo24zIG0oGTs4Es5ND1x+29z1lvPERtnPOMcW58UEPDBiDB4McZ0yEBOwH!
aPi3b/RypbyvOfn5R/oGl3Vq5/gAh3sC2w==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:5625
rec.radio.amateur.homebrew:1250 alt.internet.wireless:3073
```

"DaveC" <me@bogusdomain.net> wrote in message
news:0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net...

> Looking for outdoor omni "whip" antenna for 2.4 GHz.

Whip antenna? What is this, for a vehicle? For a stationary location it seems like it'd be an extremely bad idea to use an antenna that 'whipped' around.

> Is there any reason to not go for the greatest gain antenna, given that
> cost
> is not too important (within reason)?

Alligator effect. Wide mouth receiving everything. If you don't need to pickup everything then why bother? It just makes it harder for your WiFi router to cut through all the noise of distant stations it doesn't communicate with. Get the right antenna suited for your installation, no more, no less.

Which leads to the constant request, when you ask a question POST WHAT GEAR YOU'RE USING.

In your case it would also help to define what sort of connection you're trying to make. Point to point, metropolitan, etc.

-Bill Kearney

```
From -3095190187369519734
X-Google-Thread: fcc6e,5c0762941c88f1c3
X-Google-Thread: fc8b1,5c0762941c88f1c3
X-Google-Thread: 108122,5c0762941c88f1c3
X-Google-Thread: fc2a5,5c0762941c88f1c3
X-Google-Thread: 1109af,5c0762941c88f1c3
X-Google-Attributes:
gidfcc6e,gidfc8b1,gid108122,gidfc2a5,gid1109af,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad.newshosting.com!newshosting.com!post02.iad!
news.dslextreme.com!not-for-mail
Date: Fri, 21 Nov 2008 14:19:32 +0000
From: Dave <dave@dave.dave>
User-Agent: Thunderbird 2.0.0.17 (X11/20080925)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.boatanchors,rec.radio.amateur.equipmen
t,rec.radio.amateur.homebrew,rec.radio.swap
Subject: Re: FA: R-390A built by ECA
References: <4924dc4b$0$4892$9a6e19ea@unlimited.newshosting.com>
     <49256a1b$0$31210$bd467cd0@news.dslextreme.com>
<18c16b47-21b1-4abd-9239-7247964aaed7@u14g2000yqg.googlegroups.com>
     <49257a36$0$31174$bd467cd0@news.dslextreme.com> <0b26492c-
f2a9-4c63-945a-5dc0eee3b2ca@k36g2000yqe.googlegroups.com>
In-Reply-To: <0b26492c-f2a9-4c63-945a-5dc0eee3b2ca@k36g2000yqe.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 24
Message-ID: <4926c374$0$31141$bd467cd0@news.dslextreme.com>
Organization: dslextreme.com
```

```
X-Complaints-To: abuse@dslextreme.com
Xref: g2news1.google.com rec.radio.amateur.antenna:5626
rec.radio.amateur.boatanchors:1397 rec.radio.amateur.equipment:869
rec.radio.amateur.homebrew:1251 rec.radio.swap:896

Tim Shoppa wrote:
> On Nov 20, 9:54 am, Dave <d...@dave.dave> wrote:
>> Tim Shoppa wrote:
>>> On Nov 20, 8:46 am, Dave <d...@dave.dave> wrote:
>>>> K wrote:
>>>>> FA: An excellent R-390A built by ECA
>>>>> http://tinyurl.com/6ydbsg
>>>> What's the green thing by the headphone jack?
>>> A very common modification, especially by the Navy, was to add a jack
>>> there to monitor the diode load voltage, this makes their regular
>>> maintenance much much easier. NAVSHIPS-0967-063-2140 documents this.
>>> Tim N3QE
>> The NAVSHIPS document states that a Dymo label should be affixed by the
>> jack.
>
> Related to your other comment, I think that the one on the E-place has
> been repainted.
>
> My yellow striper came with the decades-old Dymo stickers still
> attached. I swear the glues in modern Dymo labels aren't as good.
>
> Tim.
But the P-touch makes suitable substitutes that look great and adhere
very well.


From 6431380120064399865
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns11feed!worldnet.att.net!209.197.12.246!
nx02.iad.newshosting.com!newshosting.com!post02.iad!news.dslextreme.com!not-for-
mail
Date: Fri, 21 Nov 2008 14:26:00 +0000
From: Dave <dave@dave.dave>
User-Agent: Thunderbird 2.0.0.17 (X11/20080925)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
<FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>
In-Reply-To: <FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

```
Lines: 30
Message-ID: <4926c4f8$0$31141$bd467cd0@news.dslextreme.com>
Organization: dslextreme.com
X-Complaints-To: abuse@dslextreme.com
Xref: g2news1.google.com rec.radio.amateur.antenna:5629
rec.radio.amateur.homebrew:1252 alt.internet.wireless:3074

Bill Kearney wrote:
> "DaveC" <me@bogusdomain.net> wrote in message
> news:0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net...
>> Looking for outdoor omni "whip" antenna for 2.4 GHz.
>
> Whip antenna?  What is this, for a vehicle?  For a stationary location it
> seems like it'd be an extremely bad idea to use an antenna that 'whipped'
> around.
>
>> Is there any reason to not go for the greatest gain antenna, given that
>> cost
>> is not too important (within reason)?
>
> Alligator effect.  Wide mouth receiving everything.  If you don't need to
> pickup everything then why bother?  It just makes it harder for your WiFi
> router to cut through all the noise of distant stations it doesn't
> communicate with.  Get the right antenna suited for your installation, no
> more, no less.
>
> Which leads to the constant request, when you ask a question POST WHAT GEAR
> YOU'RE USING.
>
> In your case it would also help to define what sort of connection you're
> trying to make.  Point to point, metropolitan, etc.
>
> -Bill Kearney
>
>
Short Pringle's can, 1/4 wave probe, 1/2 wave from closed end, soldered
to female TNC.


From -3221408029876118085
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2!
nlpi057.nbdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!nlpi061.nbdc.sbc.com.POSTED!72c97ff2!not-for-mail
From: "ps56k" <pschuman_no_spam_me@interserv.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
<FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>
```

Subject: Re: WiFi antenna recommendations?
Lines: 41
Organization: me
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Response
Message-ID: <2hIVk.8327$be.2733@nlpi061.nbdc.sbc.com>
NNTP-Posting-Host: 70.232.164.84
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi061.nbdc.sbc.com 1227313342 ST000 70.232.164.84 (Fri, 21 Nov 2008 19:22:22 EST)
NNTP-Posting-Date: Fri, 21 Nov 2008 19:22:22 EST
X-UserInfo1:
[[PA@SFG]JTKBPLX^RXB^WTA@B_DPBHIQ@T@_FYLKX^JGEUNDO_AR\ZYMLYPIWWHTFD_[AJMUN[Z_J_A]NVMOWLGGNSQX\PHJ@X@C_KCJ\QJA@L^GKFTXV_AJ\GYZA^N@LX_JHRL_AYCWIGPJD]SN@__YSXHW__HZY_WPF[BQ[BVASPF^\@R]SXDWVW_QSFN
Date: Fri, 21 Nov 2008 18:22:15 -0600
Xref: g2news2.google.com rec.radio.amateur.antenna:7463 rec.radio.amateur.homebrew:1550 alt.internet.wireless:4189

"Bill Kearney" <wkearney99@hotmail.com> wrote in message
news:FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net...
>
> "DaveC" <me@bogusdomain.net> wrote in message
> news:0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net...
>> Looking for outdoor omni "whip" antenna for 2.4 GHz.
>
> Whip antenna? What is this, for a vehicle? For a stationary location it
> seems like it'd be an extremely bad idea to use an antenna that 'whipped'
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>
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>> cost
>> is not too important (within reason)?
>
> Alligator effect. Wide mouth receiving everything. If you don't need to
> pickup everything then why bother? It just makes it harder for your WiFi
> router to cut through all the noise of distant stations it doesn't
> communicate with. Get the right antenna suited for your installation, no
> more, no less.
>
> Which leads to the constant request, when you ask a question POST WHAT
> GEAR YOU'RE USING.
>
> In your case it would also help to define what sort of connection you're
> trying to make. Point to point, metropolitan, etc.
>
> -Bill Kearney

Since you have included the HAM radio newsgroups as your first choices,
with the Internet Wireless as your last choice,

then - as was mentioned above - what are you trying to accomplish
with this 2.4Ghz outdoor antenna ??

Since you used the term "whip" it tends to imply some physical motion or
vehicle,
vs a "vertical" which implies a stationary location.
And both imply a omni pattern - like a general Access Point -

From 4145298891541131822
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 21 Nov 2008 19:22:04 -0600
Date: Fri, 21 Nov 2008 20:22:02 -0500
From: highlandham <rfburns@nospam.com>
User-Agent: Icedove 1.5.0.9 (X11/20061220)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
<FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>
<4926c4f8$0$31141$bd467cd0@news.dslextreme.com>
In-Reply-To: <4926c4f8$0$31141$bd467cd0@news.dslextreme.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <gb6dneuUo5Ygw7rUnZ2dnUVZ8qbinZ2d@pipex.net>
Lines: 12
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.107.29.68
X-Trace: sv3-
kB6mc5kDVCEgwByMuPARIzUPnM3ol05zdcNxpvfMLSCwWpPietWQkV1BiRlLUV4WG7JSkCxsmJmMwaC!
zVioxcceLEk/BQDW8dhycvkit+hwXTdyAZyjNzYRPUwoTAUGRc+BnEeDM3xekCPDKVIKD0lFRYn2!
D5w1zRLznyZ6v84NJxWaun7A
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:5687
rec.radio.amateur.homebrew:1254 alt.internet.wireless:3084

Dave wrote:

```
> Short Pringle's can, 1/4 wave probe, 1/2 wave from closed end, soldered
> to female TNC.
===================================
Yes these cans work well ; the problem is the type and length  of coax .
A suitable arangement is a WiFi router near the antenna (if necessary in
a wx proof box ) with an ethernet cat5 cable running to the equipment.

Another possibility is a USB WiFi adaptor in the focal point of a
satellite dish with a USB to ethernet converter.

Frank    KN6WH



From 8176848323279145360
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!q9g2000yqc.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
Date: Fri, 21 Nov 2008 17:47:25 -0800 (PST)
Organization: http://groups.google.com
Lines: 22
Message-ID: <e3cf8449-a500-4d01-9692-0d6159cd42d3@q9g2000yqc.googlegroups.com>
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
NNTP-Posting-Host: 155.178.6.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227318445 4984 127.0.0.1 (22 Nov 2008 01:47:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 22 Nov 2008 01:47:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q9g2000yqc.googlegroups.com; posting-host=155.178.6.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:7466
rec.radio.amateur.homebrew:1552 alt.internet.wireless:4191

On Nov 21, 2:38=A0am, DaveC <m...@bogusdomain.net> wrote:
> Looking for outdoor omni "whip" antenna for 2.4 GHz.
>
> Is there any reason to not go for the greatest gain antenna, given that c=
ost
> is not too important (within reason)?
>
```

> There are scads of these on the 'net. I'm looking for someone who has
> experience with one or more of them and can make a recommendation for one=
.
>
> Thanks,
> --
> DaveC
> m...@bogusdomain.net
> This is an invalid return address
> Please reply in the news group

I recently built a Franklin antenna for 2.4Ghz.
I highly reccommend it. Google WiFi and franklin antenna.

Jimmie

```
From 2460861158831318510
X-Google-Thread: fc2a5,bfb9ae8cd4a775cd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!41g2000yqf.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Battery charger
Date: Fri, 21 Nov 2008 18:06:37 -0800 (PST)
Organization: http://groups.google.com
Lines: 19
Message-ID: <2224c555-8137-4d77-b05d-9eaadcafdff6@41g2000yqf.googlegroups.com>
References: <b5cabbfd-f220-4c7e-9cef-72146abb5e68@v39g2000pro.googlegroups.com>
     <bt41i4tcebp44tl0694j629jbn1be81cnq@4ax.com> <8795bf5a-715c-4a24-8290-
ab69d748782a@e1g2000pra.googlegroups.com>
     <Uv2dnWJjtbYj9r7UnZ2dnUVZ8hydnZ2d@pipex.net> <a3e7a9b2-5f0f-40b2-
a2d2-1bd410b26f2c@v39g2000pro.googlegroups.com>
     <Xns9B5B7BA7B4F9F2MDWN@194.177.96.78>
NNTP-Posting-Host: 76.226.127.85
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Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227319598 8160 127.0.0.1 (22 Nov 2008 02:06:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 22 Nov 2008 02:06:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 41g2000yqf.googlegroups.com; posting-host=76.226.127.85;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1553
```

On Nov 19, 1:09=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> Howdy,

>
> There are a of couple newer devices that you might like
> even more than the UC3906. =A0Check out the UC3909
> and BQ2031.
> 73,
> Grumpy

Yes indeed the 3909 is a switch mode version of the 3906 and the
BQ2031 is a pulsed version. The 3906 uses a constant current source
and I used 10 amp and mine turned out to be like 9 amps in real life,
I forgot how many feet of 14AWG wire I used for the 10 map sense. Some
say pulsed or pwm is the way to go. Maximizing the PWM to fast charge
a battery would be advantageous. I think that's what they are using in
the hybrid cars.

73 OM
n8zu

From 6124021798250886245
X-Google-Thread: fc2a5,ffb4995423606c03,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!
spln!extra.newsguy.com!newsp.newsguy.com!news1
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Doubling
Date: Fri, 21 Nov 2008 22:30:24 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 13
Message-ID: <gg7qs402stp@news1.newsguy.com>
NNTP-Posting-Host: p34d1bfbfff00000039aa3817ddd3724a422f6b3c5c42ed17.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1554
X-Original-Bytes: 1188

This is a really dumb question but it dawned on me that I did not know
the correct answer.

In terms of old transmitters from the 20s/30s...In a crystal oscillator
I understand the concept of setting the oscillator output tank to
favor the harmonic from the crystal. (Stop me if I'm wrong already...)

But in a doubling amplifier stage am I counting on having enough
harmonic content at the input or am I creating the harmonic with the
non-linearity of the amplifier?

TIA

-Bill WX4A

From -7411314404769474715
X-Google-Thread: fc2a5,ffb4995423606c03
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe10.iad.POSTED!7564ea0f!not-for-mail
From: "NoSPAM" <unknown@nospam.org>
Newsgroups: rec.radio.amateur.homebrew
References: <gg7qs402stp@news1.newsguy.com>
In-Reply-To: <gg7qs402stp@news1.newsguy.com>
Subject: Re: Doubling
Lines: 46
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
X-RFC2646: Format=Flowed; Response
Message-ID: <3QLVk.9206$V71.1057@newsfe10.iad>
NNTP-Posting-Host: jnibogphckphemgkkgknfdakiclijcld
X-Complaints-To: abuse@charter.net
X-Trace:
cfhfcfpbaidndihbfkhgnhldfhiklkaloiakmjbhnjiiaagnjnibogphckphemgkfllejjhdijjjcbpjon
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NNTP-Posting-Date: Sat, 22 Nov 2008 04:24:31 UTC
Date: Fri, 21 Nov 2008 23:24:29 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1258

"exray" <radioexray@geeemail.com> wrote in message
news:gg7qs402stp@news1.newsguy.com...
> In terms of old transmitters from the 20s/30s...In a crystal oscillator I
> understand the concept of setting the oscillator output tank to favor the
> harmonic from the crystal. (Stop me if I'm wrong already...)
>
> But in a doubling amplifier stage am I counting on having enough harmonic
> content at the input or am I creating the harmonic with the non-linearity
> of the amplifier?
>
> TIA
> -Bill WX4A

Hi Bill.

Remember that single ended frequency multiplier stages are usually operated in Class-C where the nonlinear operation of the stage produces the harmonics. In a Class-C stage, the grid (of the tube since we are talking about vintage transmitters) is biased such that the plate current only flows in short pulses. The narrower the pulse width, the greater the harmonic generation of the stage. If you look in the old RCA Transmitting Tube Manual, there is a design procedure where the "conduction angle" of the tube is chosen for proper harmonic generation.

Frequency doubling is unique in that two Class-B stages may be used in a push-push arrangement. Here the grids are driven in push-pull while the plates are connected together in parallel. The resulting waveform will essentially be the equivalent of full-wave rectification of the input signal. Without going into Fourier series, the resultant waveform only contains even harmonics of the input signal while the fundamental driving frequency is cancelled out.

Fortunately I was already a ham operator when my high school math class taught Fourier series *. I immediately saw the practical value of this mathematical concept and it made good sense to me. Your question is a good one and reading some of the tutorials on Fourier series (do a Google search) will be very useful to your understanding of harmonic generation and intermodulation distortion. I hope that my simple explanation will start you in your own exploration.

73, Barry L. Ornitz WA4VZQ

* More years ago that I care to admit! :-)

From 192425525945868842
X-Google-Thread: fc2a5,ffb4995423606c03
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!npeer03.iad.highwinds-media.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news4
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Doubling
Date: Sat, 22 Nov 2008 00:32:01 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 19
Message-ID: <gg82040d52@news4.newsguy.com>
References: <gg7qs402stp@news1.newsguy.com> <3QLVk.9206$V71.1057@newsfe10.iad>
NNTP-Posting-Host: p94d1bfbfff00000061627838b76c8dc18da9c75205c3c338.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <3QLVk.9206$V71.1057@newsfe10.iad>
Xref: g2news2.google.com rec.radio.amateur.homebrew:1556

NoSPAM wrote:

>
> Remember that single ended frequency multiplier stages are usually operated
> in Class-C where the nonlinear operation of the stage produces the

> harmonics. In a Class-C stage, the grid (of the tube since we are talking
> about vintage transmitters) is biased such that the plate current only flows
> in short pulses.

Thanks Barry, I get it. I was becoming distracted by some of the old
1930s articles touting the tritet osc for its ability to create more
harmonic output (true) for directly driving following stages.

I suppose thats just another way of reaching the same goal.

(btw, haven't heard from you in years - I recall your great input over
on r.a.r. +p. No, it hasn't changed)

-Bill

From -3211405619107203899
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
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Path: g2news1.google.com!news2.google.com!news.glorb.com!news2!
nlpi057.nbdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!flpi144.ffdc.sbc.com.POSTED!ac3deb13!not-for-mail
From: DaveC <me@bogusdomain.net>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C54CDDD400BED186B01AD9AF@news.sf.sbcglobal.net>
Subject: Re: WiFi antenna recommendations?
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Reply-To: me@bogusdomain.net
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
<FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>
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X-Complaints-To: abuse@prodigy.net
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00:51:16 EST)
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Organization: at&t http://my.att.net/
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UG^Q\DINVAXSLIFXYJSSCCALP@PB@\OS@BITWAH\CQZKJMMD^SJA^NXA\GVLSRBD^M_NW_F[YLVTWIGAXA
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Date: Fri, 21 Nov 2008 21:51:16 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:5697
rec.radio.amateur.homebrew:1260 alt.internet.wireless:3087

> Since you used the term "whip" it tends to imply some physical motion or
> vehicle,
> vs a "vertical" which implies a stationary location.
> And both imply a omni pattern - like a general Access Point -

-=-=-=-

OK, time to clarify...

Wifi (2.4 GHz). outdoor omni vertical (not whip), permanent mount on pole, to
be connected (very short pigtail) to pole-mounted wifi router in client mode.
Max output: 250 mW.

Is it true that the higher the gain the flatter the "donut" shape of the
sensitivity field?

(And yes, my terminology is rudimentary... please forgive.)

Thanks,
--
DaveC
me@bogusdomain.net
This is an invalid return address
Please reply in the news group

From 2634928072527693930
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Thread: 104fd2,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,gid104fd2,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2!
nlpi057.nbdc.sbc.com!prodigy.net!flph199.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!flpi144.ffdc.sbc.com.POSTED!72c97ff2!not-for-mail
From: "ps56k" <pschuman_no_spam_me@interserv.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Followup-To: alt.internet.wireless
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
<FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>
<2hIVk.8327$be.2733@nlpi061.nbdc.sbc.com>
<0001HW.C54CDDD400BED186B01AD9AF@news.sf.sbcglobal.net>
Subject: Re: WiFi antenna recommendations?
Lines: 40
Organization: me
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
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Message-ID: <gqNVk.853$jZ1.698@flpi144.ffdc.sbc.com>

NNTP-Posting-Host: 70.232.164.84
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi144.ffdc.sbc.com 1227334412 ST000 70.232.164.84 (Sat, 22 Nov 2008 01:13:32 EST)
NNTP-Posting-Date: Sat, 22 Nov 2008 01:13:32 EST
X-UserInfo1:
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Date: Sat, 22 Nov 2008 00:13:29 -0600
Xref: g2news2.google.com rec.radio.amateur.antenna:7476 rec.radio.amateur.homebrew:1558 alt.internet.wireless:4194

DaveC wrote:
>> Since you used the term "whip" it tends to imply some physical
>> motion or vehicle,
>> vs a "vertical" which implies a stationary location.
>> And both imply a omni pattern - like a general Access Point -
>
> -=-=-=-
>
> OK, time to clarify...
>
> Wifi (2.4 GHz). outdoor omni vertical (not whip), permanent mount on
> pole, to be connected (very short pigtail) to pole-mounted wifi
> router in client mode. Max output: 250 mW.
>
> Is it true that the higher the gain the flatter the "donut" shape of
> the sensitivity field?
>
> (And yes, my terminology is rudimentary... please forgive.)
>
> Thanks,
> --
> DaveC

dropped the x-posting to the ham groups -
--

why omni on a pole in "client mode" ?

If you are attemtping to connect to a specific Access Point,
this has been discussed here zillions of times,
and there are other questions, clarifications, and solutions available -
other than an omni -
Where are you in relation to the Access Point, how far, line of sight, etc

This requires a little different "thinking" than just putting up a bigger stick
to talk to a 2m, 220, or 450 repeater -

From -8796208141304449092
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!newsp.newsguy.com!news5
From: exray <radioexray@geeemail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
Date: Sat, 22 Nov 2008 02:24:55 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 15
Message-ID: <gg88jr02o7e@news5.newsguy.com>
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
<FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>
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In-Reply-To: <0001HW.C54CDDD400BED186B01AD9AF@news.sf.sbcglobal.net>
Xref: g2news2.google.com rec.radio.amateur.antenna:7477
rec.radio.amateur.homebrew:1559 alt.internet.wireless:4195

DaveC wrote:

> Is it true that the higher the gain the flatter the "donut" shape of the
> sensitivity field?
>
> (And yes, my terminology is rudimentary... please forgive.)

I'm the one who initially committed than terminological crime so forgive
ME! Where is that big omni gain going to come from if not from the
vertical beamwidth? Start with the isotropic model pictured as a
spherical balloon. Squeeze it however you want to. Nothing about an
antenna can add volume to the model, its just a matter of how you
squeeze it.

-Bill

From 7163065314462137012
X-Google-Thread: fc2a5,ffb4995423606c03
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

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feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Doubling
Message-ID: <06afi4tsteermjpdbkmlhjf1orddgrude6@4ax.com>
References: <gg7qs402stp@news1.newsguy.com>
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Lines: 38
Date: Sat, 22 Nov 2008 09:04:23 +0200
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X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1227337457 85.77.212.247 (Sat, 22 Nov 2008
09:04:17 EET)
NNTP-Posting-Date: Sat, 22 Nov 2008 09:04:17 EET
Organization: Saunalahti Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:1263

On Fri, 21 Nov 2008 22:30:24 -0400, exray <radioexray@geeemail.com>
wrote:

>This is a really dumb question but it dawned on me that I did not know
>the correct answer.
>
>In terms of old transmitters from the 20s/30s...In a crystal oscillator
> I understand the concept of setting the oscillator output tank to
>favor the harmonic from the crystal. (Stop me if I'm wrong already...)

In an overtone oscillator, the resonator actually forces the crystal
to mechanically resonate at 1/3, 1/5, 1/7, 1/9 etc. of the crystal
width. Due to the end effects, the frequency is *not* _exactly_ 3, 5,
7, 9 etc. times the fundamental frequency, but quite close. In
principle, the oscillator is producing a single frequency, the
(harmonic) mechanical resonance frequency of the crystal.

>But in a doubling amplifier stage am I counting on having enough
>harmonic content at the input or am I creating the harmonic with the
>non-linearity of the amplifier?

The non-linearity of the stage will produce the harmonics, which are
exact integer multipliers of the input frequency. Symmetrically
clipping stages generate strong odd harmonics, while asymmetric
stages create strong even harmonics. The following stages need to
filter out the desired harmonics.

So if you need exactly 30.000... MHz, you either have to use a
10.000... MHz fundamental crystal oscillator followed by a tripler
(and filtering stage) or order an _overtone_ crystal for exactly
30.000... MHz.

Running a nominally 10.000... MHz fundamental mode crystal in an overtone oscillator tuned at 30 MHz will not produce exactly 30.000... MHz but something quite closely, due to the end effect.

Paul OH3LWR

```
From 5341870319319118806
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!feeder.erje.net!feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!
53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
Message-ID: <b1cfi4ddpgnrqsheqf1mk3i782r0mcjsfe@4ax.com>
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
<FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>
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09:15:43 EET)
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Organization: Saunalahti Customer
Xref: g2news1.google.com rec.radio.amateur.antenna:5701
rec.radio.amateur.homebrew:1264 alt.internet.wireless:3090
```

On Fri, 21 Nov 2008 21:51:16 -0800, DaveC <me@bogusdomain.net> wrote:

>Is it true that the higher the gain the flatter the "donut" shape of the
>sensitivity field?

That is the only way to get actual gain from a (horizontally) omnidirectional antenna (excluding any MIMO designs).

Flattening the vertical radiation pastern may have severe drawbacks especially if the mast is swinging in the wind or some weak (e.g.

indoors) users are close to the base of the mast.

Paul OH3LWR

From -3047059645315846141
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 22 Nov 2008 02:14:49 -0600
From: "Bryan" <bryan.swadenerNOSPAM@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
<07e60cd4-2a83-4d86-8f86-d86c8463fc3e@c22g2000prc.googlegroups.com>
Subject: Re: weller EC2002C soldering station
Date: Sat, 22 Nov 2008 00:04:41 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <iq2dnWt8svDkIrrUnZ2dnUVZ_rTinZ2d@giganews.com>
Lines: 27
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-w8OkZNTeJr/m0WvjbXVUc6QC/N0WhoHzuSzHr26BK562ILzjgAcxW/
+6qPw+EOjcfIASBrfSzthDyGY!
gcEbFFbZrVQuSWKnXMEEF9DV4kwVpLyYXI4ozAarKx+j8AGieGs+Jy7h/xAP6gsH6oqD8ydiag==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1265

>> On Oct 31, 5:47 pm, Ralph Mowery wrote:
>> I was given this Weller soldering station. The display is not working. It
>> does flash 888 on it when first turned on. The tip does heat up, but I
>> have
>> not determined if I can vary the heat or not. Also have an extra
>> soldering
>> pencle that plugs in it. Changed them to see if the display would light,
>> but it did not. Any hints on it ?

> Telstar Electronics wrote:
> They gave it to you because Weller stuff is junk. I have seen more
> Weller soldering stations fail then I care to remember over the years.
> Don't spend a lot of time on it. Break down and buy a Hexacon station.

> We have four here. They have worked flawlessly for over ten years with
> heavy use.

No... they gave it to him because it didn't cost much and was defective. At
my current place of employ, we have many Weller EC-series soldering stations
and over the 6 years I've been there, I've seen only a couple of failures.
In 30+ years in radio/electronics, I haven't seen many failures of these
units. I recently bought a new WES50 for myself and am very satisfied.
Tips are widely available and inexpensive.

Bryan WA7PRC

```
From 7751397620234317981
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.speakeasy.net!news.speakeasy.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 22 Nov 2008 10:47:04 -0600
From: "Bill Kearney" <wkearney99@hotmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
<FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>
<2hIVk.8327$be.2733@nlpi061.nbdc.sbc.com>
<0001HW.C54CDDD400BED186B01AD9AF@news.sf.sbcglobal.net>
Subject: Re: WiFi antenna recommendations?
Date: Sat, 22 Nov 2008 11:47:04 -0500
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5512
Message-ID: <3K-dnZg7rqMVqrXUnZ2dnUVZ_obinZ2d@speakeasy.net>
Lines: 5
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 66.92.145.79
X-Trace: sv3-4lgi9ak8Kq7YFQUBKECLXn7ZlBfWxoEVsCKnINCQIQlZ/
7bcZowGbRO9Sit53K7MEPLVO6vL+XXBL18!0h+8amo/
2yaNXmT6PDvNeSIlc3qfvuIMMDCUEMXmlfsGLbppXniJe+PUOkQhGYWNUa1HfUXwDYTO!
Hx+ODudPlVXpdG9hltPAV8Cj3T0b7eDS
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.antenna:7491
```

rec.radio.amateur.homebrew:1563 alt.internet.wireless:4200

> OK, time to clarify...

You still don't describe what sort of connection you're trying to make.

From 7088163048701569959
X-Google-Thread: fc2a5,43dd6fa279e1aec9,start
X-Google-Thread: 1109af,43dd6fa279e1aec9,start
X-Google-Attributes: gidfc2a5,gid1109af,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!not-for-mail
From: "K" <K@spam.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.swap
Subject: FA: EAC R-390A
Date: Sat, 22 Nov 2008 11:17:13 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Lines: 6
Message-ID: <49285abc$0$4867$9a6e19ea@unlimited.newshosting.com>
Organization: Newshosting.com - Highest quality at a great price! www.newshosting.com
NNTP-Posting-Host: 98.150.29.193
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.antenna:5717 rec.radio.amateur.boatanchors:1408 rec.radio.amateur.equipment:873 rec.radio.amateur.homebrew:1267 rec.radio.swap:906

FA: very nice EAC R-390A click here http://tinyurl.com/556eo5

K

From -6558436809114431050
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!20g2000yqt.googlegroups.com!not-for-mail

From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
Subject: Re: WiFi antenna recommendations?
Date: Sat, 22 Nov 2008 12:08:54 -0800 (PST)
Organization: http://groups.google.com
Lines: 29
Message-ID: <55fa82bf-331e-47b1-b0ad-e02e009eb7b0@20g2000yqt.googlegroups.com>
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
     <e3cf8449-a500-4d01-9692-0d6159cd42d3@q9g2000yqc.googlegroups.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227384534 479 127.0.0.1 (22 Nov 2008 20:08:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 22 Nov 2008 20:08:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 20g2000yqt.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.antenna:7497
rec.radio.amateur.homebrew:1565 alt.internet.wireless:4204

On Nov 21, 8:47=A0pm, JIMMIE <jimmi...@gmail.com> wrote:
> On Nov 21, 2:38=A0am, DaveC <m...@bogusdomain.net> wrote:
>
> > Looking for outdoor omni "whip" antenna for 2.4 GHz.
>
> > Is there any reason to not go for the greatest gain antenna, given that=
 cost
> > is not too important (within reason)?
>
> > There are scads of these on the 'net. I'm looking for someone who has
> > experience with one or more of them and can make a recommendation for o=
ne.
>
> > Thanks,
> > --
> > DaveC
> > m...@bogusdomain.net
> > This is an invalid return address
> > Please reply in the news group
>
> I recently built a Franklin antenna for 2.4Ghz.
> I highly reccommend it. Google WiFi and franklin antenna.
>
> Jimmie

Also look up AMOS antenna. They are easy to make and work well

Jimmie

From -4430534708929165575
X-Google-Thread: fc2a5,e51e81cc81858553,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news3
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SWR meter
Date: Sat, 22 Nov 2008 16:13:37 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 12
Message-ID: <gg9p5k0pp0@news3.newsguy.com>
NNTP-Posting-Host: p24d1bfbfff00000073b1290e905b03f4f4edcc2ec7af5129.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1269

I've got a cheapo CB swr meter which I thought might be suitable for some HF QRP work. Problem is that it is very insensitive on the HF freqs. Can't even get more than about 20% of the scale with 5 watts on 40 meters.

It uses a stripline for pickup and I'm wondering if maybe I should replace that with a broadband toroid configuration. Any specific recommendations? How about adding some gimmick capacitance across the stripline to increase coupling?

TIA,
Bill WX4A

From -3544133694171333956
X-Google-Thread: fc2a5,e51e81cc81858553
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!v38g2000yqb.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR meter
Date: Sat, 22 Nov 2008 14:51:45 -0800 (PST)
Organization: http://groups.google.com
Lines: 25
Message-ID: <822d8ac4-2cd3-4b89-9102-8909c30058e8@v38g2000yqb.googlegroups.com>
References: <gg9p5k0pp0@news3.newsguy.com>

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NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1227394306 2369 127.0.0.1 (22 Nov 2008 22:51:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 22 Nov 2008 22:51:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v38g2000yqb.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1270

On Nov 22, 3:13=A0pm, exray <radioex...@geeemail.com> wrote:
> I've got a cheapo CB swr meter which I thought might be suitable for
> some HF QRP work. =A0Problem is that it is very insensitive on the HF
> freqs. =A0Can't even get more than about 20% of the scale with 5 watts on
> 40 meters.
>
> It uses a stripline for pickup and I'm wondering if maybe I should
> replace that with a broadband toroid configuration. =A0Any specific
> recommendations? =A0How about adding some gimmick capacitance across the
> stripline to increase coupling?
>
> TIA,
> Bill WX4A

I would take a look at some DIY projects for SWR meters and see if I
could use the box and meter.
I had the same problem with a meter I bought at a yard sell. I liked
it because it had a big 5" meter and a fairly decent built in 50 watt
dummy load.
Price was right too $1. I rebuilt it per plans in an ARRL pub. This
one had a stripline pickup and there was enough room in the box to
double the length, that was my first consideration, but I ended up
using a toroid transformer instead..

Jimmie



From 8654750255128158216
X-Google-Thread: fcc6e,f4f4fbe7f56a200d
X-Google-Thread: fc2a5,f4f4fbe7f56a200d
X-Google-Attributes: gidfcc6e,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!
nwrddc02.gnilink.net.POSTED!d2fe4b3a!not-for-mail
From: "Wayne" <mygarbagecan@verizon.net>
Newsgroups:
```

rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.internet.wireless
References: <0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net>
<FfCdnaXCtoZ3I7vUnZ2dnUVZ_gydnZ2d@speakeasy.net>
<4926c4f8$0$31141$bd467cd0@news.dslextreme.com>
Subject: Re: WiFi antenna recommendations?
Lines: 38
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <343Wk.311$QX3.169@nwrddc02.gnilink.net>
Date: Sun, 23 Nov 2008 02:18:39 GMT
NNTP-Posting-Host: 71.165.80.205
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1227406719 71.165.80.205 (Sat, 22 Nov 2008 21:18:39 EST)
NNTP-Posting-Date: Sat, 22 Nov 2008 21:18:39 EST
Xref: g2news2.google.com rec.radio.amateur.antenna:7509
rec.radio.amateur.homebrew:1568 alt.internet.wireless:4208

"Dave" <dave@dave.dave> wrote in message
news:4926c4f8$0$31141$bd467cd0@news.dslextreme.com...
> Bill Kearney wrote:
>> "DaveC" <me@bogusdomain.net> wrote in message
>> news:0001HW.C54BA58A0075A070B01AD9AF@news.sf.sbcglobal.net...
>>> Looking for outdoor omni "whip" antenna for 2.4 GHz.
>>
>> Whip antenna? What is this, for a vehicle? For a stationary location it
>> seems like it'd be an extremely bad idea to use an antenna that 'whipped'
>> around.
>>
>>> Is there any reason to not go for the greatest gain antenna, given that
>>> cost
>>> is not too important (within reason)?
>>
>> Alligator effect. Wide mouth receiving everything. If you don't need to
>> pickup everything then why bother? It just makes it harder for your WiFi
>> router to cut through all the noise of distant stations it doesn't
>> communicate with. Get the right antenna suited for your installation, no
>> more, no less.
>>
>> Which leads to the constant request, when you ask a question POST WHAT
>> GEAR YOU'RE USING.
>>
>> In your case it would also help to define what sort of connection you're
>> trying to make. Point to point, metropolitan, etc.
>>
>> -Bill Kearney
> Short Pringle's can, 1/4 wave probe, 1/2 wave from closed end, soldered to
> female TNC.
-

I have need of a directional antenna for a 30 foot path within the house.
(the microwave oven wipes out the signal).

Do you have any better details on construction?

From 3097885870367407890
X-Google-Thread: fc2a5,ffb4995423606c03
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.cse.ohio-state.edu!pitt.edu!egsner!news.cirr.com!sdf.lonestar.org!sdog2008
From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Doubling
Date: Sun, 23 Nov 2008 02:43:38 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 63
Message-ID: <Pine.NEB.4.64.0811230222280.12668@sdf.lonestar.org>
References: <gg7qs402stp@news1.newsguy.com>
NNTP-Posting-Host: sdf.lonestar.org
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: chessie.cirr.com 1227408221 9621 192.94.73.1 (23 Nov 2008 02:43:41 GMT)
X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Sun, 23 Nov 2008 02:43:41 +0000 (UTC)
In-Reply-To: <gg7qs402stp@news1.newsguy.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1272

On Fri, 21 Nov 2008, exray wrote:

> Date: Fri, 21 Nov 2008 22:30:24 -0400
> From: exray <radioexray@geeemail.com>
> Newsgroups: rec.radio.amateur.homebrew
> Subject: Doubling
>
> This is a really dumb question but it dawned on me that I did not know the correct answer.
>
> In terms of old transmitters from the 20s/30s...In a crystal oscillator I understand the concept of setting the oscillator output tank to favor the harmonic from the crystal. (Stop me if I'm wrong already...)

I think this is correct, but the books say that tuning the output of the oscillator can "pull" the frequency of the oscillating crystal. I have sometimes seen this.

> But in a doubling amplifier stage am I counting on having enough harmonic content at the input or am I creating the harmonic with the non-linearity of the amplifier?

Despite what at least one other person responding to this said, I can rest assure you that if you run a doubler/multiplier stage even in a linear mode, AND if you tune the output of that stage to the multiple harmonic, you will definitely get output at that harmonic frequency which is stronger than the input drive voltage. In the last few years I have built many tube stages and observed the harmonic voltage output on a wideband oscilloscope. As a matter of fact if you ever get a wideband scope and look at the locked output waveform as you tune through the both the fundamental and the harmonic frequency you will be very surprised at what you will see. All of the descriptions in all of the handbooks I have read (a few) explain this from a theoretical perspective but don't bother to actually show, with photographs of actual scope traces, how this works. It would just take an extra page or two and would make people think about what they are doing.

All amplifiers have some non-linearity, the question is what effect this has on you meeting "purity" of emissions requirements. The more important question is whether you are getting the gain/drive that you want from a given stage of amplification. Reducing unwanted spurious emissions might require more tuned circuits or measurement using a receive with an S-meter and operated many wavelengths from your antenna. Most "appliance operators" just buy a commercial rig and don't worry about anything; homebrewers might not worry either if their signals go through a tuned circuit, an antenna tuner, and an antenna for a narrow frequency range.

If you really want to blow your mind, then hook an oscilloscope to the output of a mixer with two low harmonic content input sine waves to be mixed. The raw output will look like hell on a scope. The only way to see the mixed (say, difference) frequency will be to go through at least a couple of tuned circuits that are tuned for the wanted sine wave frequency.

I've done this stuff. There are a couple of other minor matters that are not quite correct in our ham handbooks, too.

> TIA
> -Bill WX4A
>

From 288468895358370551
X-Google-Thread: fc2a5,e51e81cc81858553
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.cse.ohio-state.edu!pitt.edu!egsner!news.cirr.com!sdf.lonestar.org!sdog2008
From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR meter
Date: Sun, 23 Nov 2008 02:52:13 +0000

Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 40
Message-ID: <Pine.NEB.4.64.0811230244570.12668@sdf.lonestar.org>
References: <gg9p5k0pp0@news3.newsguy.com>
NNTP-Posting-Host: sdf.lonestar.org
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: chessie.cirr.com 1227408735 9646 192.94.73.1 (23 Nov 2008 02:52:15 GMT)
X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Sun, 23 Nov 2008 02:52:15 +0000 (UTC)
In-Reply-To: <gg9p5k0pp0@news3.newsguy.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1273

On Sat, 22 Nov 2008, exray wrote:

> Date: Sat, 22 Nov 2008 16:13:37 -0400
> From: exray <radioexray@geeemail.com>
> Newsgroups: rec.radio.amateur.homebrew
> Subject: SWR meter
>
> I've got a cheapo CB swr meter which I thought might be suitable for some HF QRP work. Problem is that it is very insensitive on the HF freqs. Can't even get more than about 20% of the scale with 5 watts on 40 meters.

I've used those cheapo CB SWR meters, too, and yes at low HF they are not so sensitive even with the sensitivity turne as high as it can go.

What is more important is the meter reading on "reflected" compared to "forward". As long as the reflected is much lower (roughly 1/4 or less) than forward, you should be OK. Most scales I've seen will have a calibration such that reflected at about half the scale as forward means an SWR of about three to one. One of my meters has this point at 2/3 of full scale. I have always felt satisfied if I can get reflected down to one tenth, or less, of forward by manipulating the antenna tuner.

If you want to be a purist, then you might also consider locating a more sensitive meter, say 20-50 microamps DC and using that. Most of those internal meters are 100-200 microamps DC. Or, make the modification you describe below.

> It uses a stripline for pickup and I'm wondering if maybe I should replace that with a broadband toroid configuration. Any specific recommendations? How about adding some gimmick capacitance across the stripline to increase coupling?

I'm not sure it is worth the work to try this, but I don't have a good recommendation or preference to emphasize.

> TIA,
> Bill WX4A
>

From 2915737085030809170
X-Google-Thread: fc2a5,e51e81cc81858553
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news6
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR meter
Date: Sat, 22 Nov 2008 23:09:10 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 60
Message-ID: <ggahgp0283j@news6.newsguy.com>
References: <gg9p5k0pp0@news3.newsguy.com>
<Pine.NEB.4.64.0811230244570.12668@sdf.lonestar.org>
NNTP-Posting-Host: p5903845b13d6f6e24b8044518e25ab78698bd8662166b325.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <Pine.NEB.4.64.0811230244570.12668@sdf.lonestar.org>
Xref: g2news2.google.com rec.radio.amateur.homebrew:1571

Stray Dog wrote:
>
> On Sat, 22 Nov 2008, exray wrote:
>
>> Date: Sat, 22 Nov 2008 16:13:37 -0400
>> From: exray <radioexray@geeemail.com>
>> Newsgroups: rec.radio.amateur.homebrew
>> Subject: SWR meter
>>
>> I've got a cheapo CB swr meter which I thought might be suitable for
>> some HF QRP work. Problem is that it is very insensitive on the HF
>> freqs. Can't even get more than about 20% of the scale with 5 watts
>> on 40 meters.
>
> I've used those cheapo CB SWR meters, too, and yes at low HF they are
> not so sensitive even with the sensitivity turne as high as it can go.
>
> What is more important is the meter reading on "reflected" compared to
> "forward". As long as the reflected is much lower (roughly 1/4 or less)
> than forward, you should be OK. Most scales I've seen will have a
> calibration such that reflected at about half the scale as forward means
> an SWR of about three to one. One of my meters has this point at 2/3 of
> full scale. I have always felt satisfied if I can get reflected down to
> one tenth, or less, of forward by manipulating the antenna tuner.
>
> If you want to be a purist, then you might also consider locating a more
> sensitive meter, say 20-50 microamps DC and using that. Most of those

> internal meters are 100-200 microamps DC. Or, make the modification you
> describe below.
>
>> It uses a stripline for pickup and I'm wondering if maybe I should
>> replace that with a broadband toroid configuration. Any specific
>> recommendations? How about adding some gimmick capacitance across the
>> stripline to increase coupling?
>
> I'm not sure it is worth the work to try this, but I don't have a good
> recommendation or preference to emphasize.
>
>> TIA,
>> Bill WX4A
>>
>
Well, this little dilly has several wattage ranges, calibrated at 27 MHz
of course, as well as the 'adjust to full scale, flip to REV' for SWR
readings. I could not get anywhere near full scale with the setting.

I did add some additional capacitance off of the stripline and am now
within range of the thing. It took about 10pf, a gimmick wasn't enough.
  Celebrating that success I reset the lowest ranges of the wattmeter (5
and 50 watts) to read accurately at 7 MHz. I have no fantasies about
the linearity of the circuit now nor any fantasy that the other ham
bands will read anywhere even close wattage-wise but it seems just the
ticket for 40 meters.

If I get enthusiastic I might try a ferrite transformer and just see how
much flatter that might be across the bands.

73,
Bill

From -1907160151056644024
X-Google-Thread: fcc6e,5c0762941c88f1c3
X-Google-Thread: 108122,5c0762941c88f1c3
X-Google-Thread: fc2a5,5c0762941c88f1c3
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 22 Nov 2008 21:24:25 -0600
Date: Sat, 22 Nov 2008 19:24:19 +0000
From: highlandham <rfburns@nospam.sco>
User-Agent: Thunderbird 2.0.0.18 (Windows/20081105)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.swap
Subject: Re: FA: R-390A built by ECA

```
References: <4924dc4b$0$4892$9a6e19ea@unlimited.newshosting.com>
     <49256a1b$0$31210$bd467cd0@news.dslextreme.com>
<18c16b47-21b1-4abd-9239-7247964aaed7@u14g2000yqg.googlegroups.com>
     <49257a36$0$31174$bd467cd0@news.dslextreme.com> <0b26492c-
f2a9-4c63-945a-5dc0eee3b2ca@k36g2000yqe.googlegroups.com>
<4926c374$0$31141$bd467cd0@news.dslextreme.com>
In-Reply-To: <4926c374$0$31141$bd467cd0@news.dslextreme.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <MoKdnbyAK710UbXUnZ2dneKdnZzinZ2d@pipex.net>
Lines: 13
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.107.29.68
X-Trace: sv3-VKBex43v/FvoZgQpBjMOWuwZZ6QgfiNKZSkmctYnmWw12NdMDYg5BiqtdBL9gW/
kp+I6D+9NOq8s7DR!iEJ1EYk3Hne39HZaDJuM9PBX07k1+3buGDZJUOOQ/PpElb8qzqWzVu/
OHRP6K+dumHAnH+LAcmiu!Qd01hMyS9FeiUUjZGCVROe9/
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.antenna:5732
rec.radio.amateur.boatanchors:1411 rec.radio.amateur.equipment:874
rec.radio.amateur.homebrew:1275 rec.radio.swap:910

>> My yellow striper came with the decades-old Dymo stickers still
>> attached. I swear the glues in modern Dymo labels aren't as good.
>>
>> Tim.
> But the P-touch makes suitable substitutes that look great and adhere
> very well.
==================================
If you mean the P-touch from Brother, yes that's an excellent type of
label(er)



Frank



From -1532945692296495837
X-Google-Thread: fc2a5,1d28f52e8d9dfe75
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i20g2000prf.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Voltage drop problems with power supply
Date: Wed, 5 Nov 2008 09:11:43 -0800 (PST)
Organization: http://groups.google.com
Lines: 44
```

```
Message-ID: <61079639-ab8e-4cf0-a772-eceda91e5016@i20g2000prf.googlegroups.com>
References: <op.uj37o6zpaiss39@localhost>
NNTP-Posting-Host: 76.232.149.28
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1225905103 3179 127.0.0.1 (5 Nov 2008 17:11:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 5 Nov 2008 17:11:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i20g2000prf.googlegroups.com; posting-host=76.232.149.28;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.17)
     Gecko/20080829 Firefox/2.0.0.17,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1076
```

hey larry

I see trouble with the bypass caps on the LM317 regulator. They have opened up and now the adjust pin, which is an op amp input, isn't bypassed, letting in massive quantities of rf and overloading the op amps ability to compare the reference voltage to the adjust pin voltage.

73 OM
n8zu

On Nov 4, 5:06 pm, "Larry Gagnon" <lggag...@fakeuniserve.com> wrote:

> Hello. I have a homebrew linear 13.8V 20A power supply I have been using for some years to power an IC-735, a 2M rig and some accessories. The PS has these characteristics:
>
> - well filtered (35000uF)22AMP, 21 volt DC output from diode bridge circuit
> - LM-317 regulator circuit (as per LM-317 datasheets)
> - MJ2955 NPN feeder transistor from regulator driving 4 - 2N3055 PNP power transistors in parallel
> - large heat sinks (I don't think heat is a problem)
> - good air circulation with fan
>
> I have the regulator set to 13.7 VDC out. Lately however, I have had some problems with voltage drops: while drawing 20 amps the voltage drops to about 11.3 volts and I have had reports of a rough CW signal as a result.
>
> I have tested the reg circuit and even replaced the LM-317 to no avail. I cannot see where the problem lies, unless perhaps the MJ2955 feeder transistor is not working as it should? (I don't yet have a replacement transistor to test that idea, hence this post).
>
> Any ideas greatly appreciated.
>

```
> Larry VE7EA
>
> --
> For direct email remove fake.







From 8345341699701826309
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 05 Nov 2008 17:40:56 -0600
Date: Wed, 05 Nov 2008 23:40:54 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: weller EC2002C soldering station
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
     <490BECC9.3070005@NETTALLY.COM>
<OfudnYjf-9jDl5DUnZ2dnUVZ_tXinZ2d@earthlink.com>
<cOCPk.7521$kd5.6503@newsfe01.iad>
<Kdidnd9sQvekCZLUnZ2dnUVZ_hudnZ2d@earthlink.com>   <xMGdne1Yp-
dIHI3UnZ2dnUVZ8vGdnZ2d@pipex.net> <218e931a-ad7f-4f2d-
a4eb-53e29f2d5273@w39g2000prb.googlegroups.com>
In-Reply-To: <218e931a-ad7f-4f2d-a4eb-53e29f2d5273@w39g2000prb.googlegroups.com>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 8bit
Message-ID: <2qidnZCTopeVso_UnZ2dnUVZ8vidnZ2d@pipex.net>
Lines: 30
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 85.210.100.110
X-Trace:
sv3-3EL5IOi5TZ2JTQ2ja0fAEW3SLHT80XxSDltohe4qw5O8iXKuyfiWj7w3TllFa3xFKBfxnltsp0/
sTr8!oueNfUvQ2bb/b+3ebS95PF5EkXVpXAY0VH2HWYix5qWuJmSjaMBYoTJUAFDGawO+lf3U2ostSkiv!
GWByQKv/V44gVl83I8ZrKqmLTMc=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1077

JRCCrabtree@gmail.com wrote:
> On Nov 4, 11:09�am, highlandham <rfbu...@nospam.com> wrote:
>
```

```
>> ================================================
>> On the topic of Weller soldering irons , I would appreciate info on the
>> following :
>>
>> At a fleamarket I acquired a Weller soldering iron with a DIL16
>> de-soldering pad (very handy to remove ICs with up to 16 pins.
>> However , the heater element (Weller part nr 24410 , 24V-50W) is
>> defective (open circuit)
>> By Googling I haven't been successful finding a US supplier for the
>> heater element.
>> Can someone on this NG please help with US supplier info ( in the hope
>> the cost of a replacement element will not make it necessary for me
>> having to talk to my bank manager).
>>
>> TIA for any advice
>>
>> Frank � � GM0CSZ / KN6WH- Hide quoted text -
>>
>> - Show quoted text -
========================================
> Hello Frank
>
> Do you have a model number for the iron?  If so, what is it?
====================================
It is a Weller  ECP  24V-50W  iron (with a DIL 16 de-soldering bit)

Frank   GM0CSZ / KN6WH


From 5208863617966545155
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 05 Nov 2008 18:20:17 -0600
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
<490BECC9.3070005@NETTALLY.COM> <OfudnYjf-9jDl5DUnZ2dnUVZ_tXinZ2d@earthlink.com>
<as6dnWFp9O_1zozUnZ2dnUVZ_uednZ2d@giganews.com>
Subject: Re: weller EC2002C soldering station
Date: Wed, 5 Nov 2008 19:21:52 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <yeydnQUrHI_cpY_UnZ2dnUVZ_vadnZ2d@earthlink.com>
Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.225.35.56
```

```
X-Trace: sv3-O86orn2boAhHI7WmEDfoSiEY6wZr6AqD6N9kjIq9+t5cEeoc77JY9RJhTi/
0EoduJbdcFsKi+YVgJ3k!bMcKH/
maLyAXUC5AjhLF35BgvjUQSvJdGnHxdIuzSlem9dsuab4n98E3iZec0KLX25A1dMb5g20E!afnDwR01RR/
HXzzI7Z1pWbEOJ5rBcpfi77CLbA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1078
```

"Bryan" <bryan.swadenerNOSPAM@comcast.net> wrote in message >> I found
several schematics for different models. Never did find the one
>> that matches mine. I opened it up and it seems there is a ceramic board
>> with surface devices on it. Almost no user replicable parts. Atleast
>> for my skill level. I was hoping it would be the discrete parts. I can
>> work with them. Oh well, it was free and is a good soldering iron even
>> without the display. I do have a couple of spare parts for it also.
>>
>> de KU4PT
>
> Hi Ralph,
>
> In my surfing, I found this reverse-engineered service manual for the
> EC2002: http://www.geocities.com/bswadener/temp/Weller_EC-2002.pdf or
> http://tinyurl.com/5ff6qx (PDF, 372 KB). It may be of use to you and
> others.
>
> vy 73,
> Bryan WA7PRC
Thanks for sending that Bryan. It is too bad for me that is not the one I
have. From the outside it looks like it, but inside it is totally
differant. There seem to be several modles that look similar on the outside
but differant inside. The one I have has a C after the 2002.

```
From -7997212271718755763
X-Google-Thread: fc2a5,1d28f52e8d9dfe75
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!e38g2000prn.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Voltage drop problems with power supply
Date: Wed, 5 Nov 2008 19:22:01 -0800 (PST)
Organization: http://groups.google.com
Lines: 41
Message-ID: <2f5fc08f-8a44-4339-a399-55dbb4959a08@e38g2000prn.googlegroups.com>
References: <op.uj37o6zpaiss39@localhost>
NNTP-Posting-Host: 75.190.189.120
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1225941721 8701 127.0.0.1 (6 Nov 2008 03:22:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 6 Nov 2008 03:22:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e38g2000prn.googlegroups.com; posting-host=75.190.189.120;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1079

On Nov 4, 5:06=A0pm, "Larry Gagnon" <lggag...@fakeuniserve.com> wrote:
> Hello. I have a homebrew linear 13.8V 20A power supply I have been using =
=A0
> for some years to power an IC-735, a 2M rig and some accessories. The PS =
=A0
> has these characteristics:
>
> - well filtered (35000uF)22AMP, 21 volt DC output from diode bridge circu=
it
> - LM-317 regulator circuit (as per LM-317 datasheets)
> - MJ2955 NPN feeder transistor from regulator driving 4 - 2N3055 PNP powe=
r =A0
> transistors in parallel
> - large heat sinks (I don't think heat is a problem)
> - good air circulation with fan
>
> I have the regulator set to 13.7 VDC out. Lately however, I have had some=
 =A0
> problems with voltage drops: while drawing 20 amps the voltage drops to =
=A0
> about 11.3 volts and I have had reports of a rough CW signal as a result.
>
> I have tested the reg circuit and even replaced the LM-317 to no avail. I=
 =A0
> cannot see where the problem lies, unless perhaps the MJ2955 feeder =A0
> transistor is not working as it should? (I don't yet have a replacement =
=A0
> transistor to test that idea, hence this post).
>
> Any ideas greatly appreciated.
>
> Larry VE7EA
>
> --
> For direct email remove fake.

Sounds like my power supply. One of the emitter resistors on a pass
transistor opened. The transistor did not fail. I replaced the
resistors and decided to upgrade the 2n3055 to some NTE181s. Also

modified the power supply for remote sense to allow for IR losses in the power cable.

```
From 4494692498485690534
X-Google-Thread: 11480d,6fa2412b6ae002ae,start
X-Google-Thread: fc2a5,6fa2412b6ae002ae,start
X-Google-Thread: 10b9c8,6fa2412b6ae002ae,start
X-Google-Attributes: gid11480d,gidfc2a5,gid10b9c8,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news2!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
novia!news-out.readnews.com!transit4.readnews.com!panix!panix2.panix.com!not-for-
mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1223359501@panix.com>
Followup-To: poster
Date: 7 Nov 2008 02:05:02 -0500
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 10 Dec 2008 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1226041500@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1226041503 9015 166.84.1.2 (7 Nov 2008 07:05:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 7 Nov 2008 07:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
X-Original-Bytes: 2660
Xref: g2news1.google.com rec.radio.amateur.antenna:5234 rec.radio.amateur.dx:172
rec.radio.amateur.equipment:821 rec.radio.amateur.homebrew:1080 rec.radio.info:327

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/
```

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

From 6749106404711060323
X-Google-Thread: fc2a5,3a198cefc258de93,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
nx01.iad.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!tmp-post01.iad!
news.highwinds-media.com!news.cv.net!not-for-mail
From: "Mike Kulyk" <mkulyk@optonline.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: BASE STATION CB radios and Linear Amp
Date: Fri, 7 Nov 2008 07:19:53 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Lines: 20
Message-ID: <49143270$0$14274$607ed4bc@cv.net>
Organization: Optimum Online
NNTP-Posting-Host: 69.117.250.166
X-Complaints-To: abuse@cv.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:1081

I have 2 older CB BASE station radios. ONE IS SSB.. and the other is AM only

And I have a 100 + watt Knight T 175 AMP. 10 mtr and 6 mtr AMP. ALL THIS

EQUIPMENT IS IN NEED OF REPAIR. THE AM unit comes on and I got sound out of it. Squelch Noise. COMES WITH NICE TURNER DESK MIC

THE SSB radio has NO power cord.. SO I could not power it. COMES with MIC.,.

THE AMP powered up.. Made some noise. SO I pulled the plug.

Pictures of all above by e-mail.

I will trade for a NON working HF transceiver.

73

Mike WB2GLW

```
From -5473737997015297854
X-Google-Thread: fc2a5,bf73bcde541085a4,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v16g2000prc.googlegroups.com!not-for-mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: smps mod
Date: Fri, 7 Nov 2008 07:51:30 -0800 (PST)
Organization: http://groups.google.com
Lines: 8
Message-ID: <e8aa2cc3-52af-40c4-9eed-35595f1fb460@v16g2000prc.googlegroups.com>
NNTP-Posting-Host: 155.178.5.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1226073091 16096 127.0.0.1 (7 Nov 2008 15:51:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 7 Nov 2008 15:51:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v16g2000prc.googlegroups.com; posting-host=155.178.5.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3533
```

I have a 15volt 25 amp SMPS that I would like to convert to a +/- 15 volt power supply. I was wonder if I could do this by adding two diodes to the present two diode full wave rectifier circuit to turn it into a bridge. Also the power supply seems to be operating at about 25Khz, but the diodes are standard recovery. Would there be any benifit to switching to fast recovery diodes.

Jimmie

```
From 6670762910104385731
X-Google-Thread: fc2a5,bf73bcde541085a4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
feeder.visyn.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: smps mod
Date: Fri, 7 Nov 2008 18:13:29 +0100 (CET)
Organization: Mostly In Piles
Lines: 49
Message-ID: <Xns9B4F72320E8602MDWN@194.177.96.78>
References: <e8aa2cc3-52af-40c4-9eed-35595f1fb460@v16g2000prc.googlegroups.com>
NNTP-Posting-Host: fknz+CL4/Py82Rmt80gNAA.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Fri, 7 Nov 2008 17:13:29 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3534
```

Hi Jimme,

Yes you can, you'll need to add a second output filter too of course. I'd make the second filter for the negative output a duplicate of the existing filter except for the polarity of the capacitors. A coupled inductor would be better but might effect the control loop compensation.

For a 15V output I'd most likely use schottky diodes for their low forward voltage and no reverse recovery (at the expense of higher capacitance.) Maybe have to add a small series RC snubber across the schottkys if there's a lot of ringing.

Any benefit to using faster recovery diodes would depend on how fast the diodes now in use are switching. I've seen crappy old 1N4004 diodes with 35nS recovery times when operating at several amperes of forward current. That's ultra-fast! But they're specified as standard recovery... this really screwed up a base drive clamp where they were expected to be slow.

If they are 1uS parts, changing to something faster should reduce switching losses. Might make the supply quieter... or more noisey! Ultra-fast parts with soft recovery would be my second choice after schottkys. They tend to produce the least EMI and what noise they do produce is easier to snub and filter in addition to low switching losses.

73
Grumpy

JIMMIE <jimmie68@gmail.com> wrote in news:e8aa2cc3-52af-40c4-9eed-35595f1fb460@v16g2000prc.googlegroups.com:

> I have a 15volt 25 amp SMPS that I would like to convert to a +/- 15
> volt power supply. I was wonder if I could do this by adding two
> diodes to the present two diode full wave rectifier circuit to turn it
> into a bridge. Also the power supply seems to be operating at about
> 25Khz, but the diodes are standard recovery. Would there be any
> benifit to switching to fast recovery diodes.
>
> Jimmie
>

From -2040613660233827883
X-Google-Thread: fc2a5,bf73bcde541085a4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!news2!feeder.erje.net!news.buerger.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: smps mod
Date: Fri, 7 Nov 2008 23:47:03 +0100 (CET)
Organization: Mostly In Piles
Lines: 9
Message-ID: <Xns9B4FAAC0510342MDWN@194.177.96.78>
References: <e8aa2cc3-52af-40c4-9eed-35595f1fb460@v16g2000prc.googlegroups.com> <Xns9B4F72320E8602MDWN@194.177.96.78>
NNTP-Posting-Host: TGq3JE8aTL+5ROn2skIVMg.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Fri, 7 Nov 2008 22:47:03 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1084

I forgot to mention that I made the assumption it's a forward converter that produces symmetrical output. I'm expecting it's a half-bridge converter. Other topologies would require an additional winding to the transformer.

73

Grumpy

From 3441868463087613228
X-Google-Thread: fc2a5,1d28f52e8d9dfe75
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 07 Nov 2008 20:34:01 -0600
Date: Fri, 07 Nov 2008 18:34:00 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Voltage drop problems with power supply
References: <op.uj37o6zpaiss39@localhost> <op.uj5ngrfbaiss39@localhost>
In-Reply-To: <op.uj5ngrfbaiss39@localhost>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <4Kudnc-lG8oHZ4nUnZ2dnUVZ_jCdnZ2d@web-ster.com>
Lines: 15
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X-Trace: sv3-1LtX9KdWxTBDTpqZcSVR8E6qNdreyJWd/
AKm2Eqje6UYY7kSaLsnfD7DL2qb0UpJ6Efg8QQ9q2/VjQP!s1oVhudIkc55DYcH3VGME/pky/
Vz7SSG3jSMfgG9CYHWmcA6jS8Fs0n0RweHKk/CoctH/4oTN6jk!XrBn8QIp3eHIKjA=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3536

Larry Gagnon wrote:
> Thanks everyone above for all your input and suggestions. Very useful. I
> will get into it and do a few more tests.

Let us know how it works out.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From -1215532799678657141
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet

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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!aioe.org!fmmck
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: weller EC2002C soldering station
Date: Sat, 08 Nov 2008 15:52:19 -0500
Organization: Aioe.org NNTP Server
Lines: 17
Message-ID: <fmmck-04F809.15521908112008@nntp.aioe.org>
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
<490BECC9.3070005@NETTALLY.COM> <OfudnYjf-9jDl5DUnZ2dnUVZ_tXinZ2d@earthlink.com>
<as6dnWFp9O_1zozUnZ2dnUVZ_uednZ2d@giganews.com>
<yeydnQUrHI_cpY_UnZ2dnUVZ_vadnZ2d@earthlink.com>
NNTP-Posting-Host: OjxUMtKQgQjE3QmmrROV1Q.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Sat, 8 Nov 2008 20:52:21 +0000 (UTC)
User-Agent: MT-NewsWatcher/3.5.3b2 (Intel Mac OS X)
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3537

In article <yeydnQUrHI_cpY_UnZ2dnUVZ_vadnZ2d@earthlink.com>,
 "Ralph Mowery" <rmowery28146@earthlink.net> wrote:

> Thanks for sending that Bryan.  It is too bad for  me that is not the one I
> have.  From the outside it looks like it, but inside it is totally
> differant.  There seem to be several modles that look similar on the outside
> but differant inside.  The one I have has a C after the 2002.

Ralph-

Take a look at
<http://bama.edebris.com/manuals/weller/>
where the EC2002 and EC2002m are listed.  Perhaps one of these will be
closer to yours.

Fred
K4DII



From 8188954256543259353
X-Google-Thread: fc8b1,85a7e80dd8199886,start
X-Google-Thread: 108122,85a7e80dd8199886,start
X-Google-Thread: fc2a5,85a7e80dd8199886,start
X-Google-Thread: 1109af,85a7e80dd8199886,start
X-Google-Attributes: gidfc8b1,gid108122,gidfc2a5,gid1109af,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!
tmp-post01.iad!news.highwinds-media.com!not-for-mail
From: "K" <K@spam.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebr
```

ew,rec.radio.swap
Subject: FA: EAC R-390A
Date: Sat, 8 Nov 2008 14:35:37 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Lines: 9
Message-ID: <49161439$0$4954$9a6e19ea@unlimited.newshosting.com>
Organization: Newshosting.com - Highest quality at a great price! www.newshosting.com
NNTP-Posting-Host: 98.150.29.193
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.boatanchors:1324 rec.radio.amateur.equipment:827 rec.radio.amateur.homebrew:1087 rec.radio.swap:825

FA: EAC R-390A on ebay --

R-390A HF Receiver - 280283671494

--

From -6020693986565262873
X-Google-Thread: fc2a5,bf73bcde541085a4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!v13g2000pro.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: smps mod
Date: Sat, 8 Nov 2008 18:39:46 -0800 (PST)
Organization: http://groups.google.com
Lines: 21
Message-ID: <da8150b8-d79d-4b31-8d67-4895af2ddbef@v13g2000pro.googlegroups.com>
References: <e8aa2cc3-52af-40c4-9eed-35595f1fb460@v16g2000prc.googlegroups.com>
    <Xns9B4F72320E8602MDWN@194.177.96.78> <Xns9B4FAAC0510342MDWN@194.177.96.78>
NNTP-Posting-Host: 76.232.149.28
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1226198387 32113 127.0.0.1 (9 Nov 2008 02:39:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 9 Nov 2008 02:39:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v13g2000pro.googlegroups.com; posting-host=76.232.149.28;
    posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap

User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.17)
Gecko/20080829 Firefox/2.0.0.17,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1088

On Nov 7, 5:47 pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> I forgot to mention that I made the assumption it's a forward
> converter that produces symmetrical output. I'm expecting it's
> a half-bridge converter. Other topologies would require an
> additional winding to the transformer.
>
> 73
> Grumpy

Right, to pick up the negative supply you has to have a waveform that
has enough negative going cycle you might be able to pick up sum
ringing waveform and rectify it. Don't expect to gits -15 volts @ 25
amps.

If you're lucky you have a push pull front end. But I don't think
your -15 is going to be regulated.

73 OM

n8zu

From -1622485243047671265
X-Google-Thread: fc2a5,bf73bcde541085a4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
newsfeed.freenet.de!news.buerger.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: smps mod
Date: Sun, 9 Nov 2008 06:49:42 +0100 (CET)
Organization: Mostly In Piles
Lines: 70
Message-ID: <Xns9B50F2678429B2MDWN@194.177.96.78>
References: <e8aa2cc3-52af-40c4-9eed-35595f1fb460@v16g2000prc.googlegroups.com>
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<da8150b8-d79d-4b31-8d67-4895af2ddbef@v13g2000pro.googlegroups.com>
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X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Sun, 9 Nov 2008 05:49:42 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1089

Howdy,

It's a pretty safe bet that it's a topology which will work, because the existing output is described as a center tapped full wave configuration. (If I read Jimmie's post correctly.)

I'm expecting it's a half-bridge with its 375W output. Then two center tapped full wave outputs of opposite polarity from one winding can be built.

In this case the output voltage is mainly determined by the bulk supply's voltage, the switch's duty cycle and the transformer's turns ratio. All of those are identical for each output, because they use the same secondary winding.

With a somewhat balanced load and identical output circuits, cross regulation (regulating only the +15) should work ok.
A coupled inductor would further improve the regulation.
Then sensing across the outputs (30V) or summing them might be desirable. It all depends on what the load requirements will be. .

In that power range another popular topology is the single or two switch forward converter. In these the switches drive the core in one direction then let it reset by various mechanisms.

It's kind of interesting, replace two diagonally opposed switches in a full bridge with rectifiers and you have a two switch forward converter. Then the output voltage waveform is asymmetrical and you're forced to use half wave rectification.

It's very rare to see a flyback converter at this power level with such a low output voltage. It's possible some special applications might require one but it's generally ugly and not economical.

Anyway... I think it's worth a try but I could be wrong.

73,
Grumpy

raypsi <RBorowiak@gmail.com> wrote in news:da8150b8-d79d-4b31-8d67-4895af2ddbef@v13g2000pro.googlegroups.com:

> On Nov 7, 5:47 pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
>> I forgot to mention that I made the assumption it's a forward
>> converter that produces symmetrical output. I'm expecting it's
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>> additional winding to the transformer.
>>
>> 73
>> Grumpy

```
>
> Right, to pick up the negative supply you has to have a waveform that
> has enough negative going cycle you might be able to pick up sum
> ringing waveform and rectify it. Don't expect to gits -15 volts @ 25
> amps.
>
> If you're  lucky you have a push pull front end. But I don't think
> your -15 is going to be regulated.
>
> 73 OM
>
> n8zu
>
>
```

```
From 2933470146273889762
X-Google-Thread: fc2a5,bf73bcde541085a4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: smps mod
Date: Sun, 9 Nov 2008 06:53:32 +0100 (CET)
Organization: Mostly In Piles
Lines: 7
Message-ID: <Xns9B50F30E9859A2MDWN@194.177.96.78>
References: <e8aa2cc3-52af-40c4-9eed-35595f1fb460@v16g2000prc.googlegroups.com>
<Xns9B4F72320E8602MDWN@194.177.96.78> <Xns9B4FAAC0510342MDWN@194.177.96.78>
<da8150b8-d79d-4b31-8d67-4895af2ddbef@v13g2000pro.googlegroups.com>
NNTP-Posting-Host: yUuenx7pu2XaQNQCFKTx5Q.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Sun, 9 Nov 2008 05:53:32 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1090
```

Oh, that's a good point... at best Jimmie could get half
as much per output. +/- 15V at 12.5A for the 375W output
that the primary circuits and transformer are designed for.

```
From -5966024882319011609
X-Google-Thread: fc2a5,bf73bcde541085a4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
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Path: g2news1.google.com!postnews.google.com!k36g2000pri.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: smps mod
Date: Sun, 9 Nov 2008 07:10:57 -0800 (PST)
Organization: http://groups.google.com
Lines: 20
Message-ID: <1c076d7b-e48a-4098-b2da-b41e256dc8de@k36g2000pri.googlegroups.com>
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     <Xns9B4F72320E8602MDWN@194.177.96.78> <Xns9B4FAAC0510342MDWN@194.177.96.78>
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     <Xns9B50F30E9859A2MDWN@194.177.96.78>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1226243457 23880 127.0.0.1 (9 Nov 2008 15:10:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 9 Nov 2008 15:10:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k36g2000pri.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1091
```

On Nov 9, 12:53=A0am, Grumpy The Mule <s_foo...@foo.bar> wrote:

> Oh, that's a good point... at best Jimmie could get half
> as much per output. =A0+/- 15V at 12.5A =A0for the 375W output
> that the primary circuits and transformer are designed for.

Well it works but it wasnt as easy as I thought it would be. Putting in the bridge was the easy part. I still had to find a place for another filter cap and a choke. The caps werent too much of a problem. I removed the origonal one and was able to fit 2new smaller ones in their place. Since I was going to drawing a lot less current than the PS was designed I figured I could use smaller caps. I still havent settled on where to place the choke. Its just hanging out the side for now. I will eventually try some fast recovery diodes but since the power supply origonally use stardard recovery diodes that is what I will use for now. The heat sink the diodes are mounted on get fairly warm, maybe fast ones will help this.

Jimmie

```
From 564950857425662234
X-Google-Thread: fc2a5,2eea65c717732ee7,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!newsp.newsguy.com!news7
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: LC calculation
Date: Sun, 09 Nov 2008 11:37:30 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 7
Message-ID: <gf703r071p@news7.newsguy.com>
NNTP-Posting-Host: paf9f6a9bb7f29bfefe577de20ff70fd38e54b9a62820a27f.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1092

Hi,
Can somebody walk me thru the calculation of an LC circuit where the capacitor is tapped down on the coil? I see this often done for bandspreading purposes.

Tnx,
Bill WX4A

From 2532566810675395401
X-Google-Thread: fc2a5,2eea65c717732ee7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LC calculation
Date: Sun, 9 Nov 2008 17:36:49 +0100 (CET)
Organization: Mostly In Piles
Lines: 30
Message-ID: <Xns9B516BFAA892D2MDWN@194.177.96.78>
References: <gf703r071p@news7.newsguy.com>
NNTP-Posting-Host: Fe77s3IXOIw7MYD6rPND4g.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Sun, 9 Nov 2008 16:36:49 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1093

Howdy,

I'm guessing that it can be solved like this...
Consider the autotransformer action of the tapped inductor.
Then divide the tap capacitor (C2) value by the square of the

turns ratio (N) before adding it to the primary capacitance
of the parallel tuned circuit (C1.)

F=2Pi*sqrt(L(C1+C2/N^2))

I found a rigorous solution in chapter 8 of Alternating
Current Circuits by K.Y. Tang but it's too messy to type.

73,
Grumpy

exray <radioexray@geeemail.com> wrote in news:gf703r071p@news7.newsguy.com:

> Hi,
> Can somebody walk me thru the calculation of an LC circuit where the
> capacitor is tapped down on the coil? I see this often done for
> bandspreading purposes.
>
> Tnx,
> Bill WX4A
>

From 2918257308632348237
X-Google-Thread: fc2a5,2eea65c717732ee7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!
spln!extra.newsguy.com!newsp.newsguy.com!news3
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LC calculation
Date: Sun, 09 Nov 2008 13:13:12 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 42
Message-ID: <gf75n902u84@news3.newsguy.com>
References: <gf703r071p@news7.newsguy.com> <Xns9B516BFAA892D2MDWN@194.177.96.78>
NNTP-Posting-Host: p24d1bfbfff00000073b1290e905b03f4f4edcc2ec7af5129.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <Xns9B516BFAA892D2MDWN@194.177.96.78>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1094
X-Original-Bytes: 1937

Thanks Grump...gonna save that for my files but I think I need to
clarify my question. One cap only...not one across the tank and another

on the tap although thats an interesting idea. Maybe this schematic
will help.

  http://www.antiqueradios.org/gazette/pix/sw3-1sch.jpg

-Bill

Grumpy The Mule wrote:
> Howdy,
>
> I'm guessing that it can be solved like this...
> Consider the autotransformer action of the tapped inductor.
> Then divide the tap capacitor (C2) value by the square of the
> turns ratio (N) before adding it to the primary capacitance
> of the parallel tuned circuit (C1.)
>
> F=2Pi*sqrt(L(C1+C2/N^2))
>
> I found a rigorous solution in chapter 8 of Alternating
> Current Circuits by K.Y. Tang but it's too messy to type.
>
>
> 73,
> Grumpy
>
>
>
> exray <radioexray@geeemail.com> wrote in news:gf703r071p@news7.newsguy.com:
>
>> Hi,
>> Can somebody walk me thru the calculation of an LC circuit where the
>> capacitor is tapped down on the coil? I see this often done for
>> bandspreading purposes.
>>
>> Tnx,
>> Bill WX4A
>>
>

From -7202895914597023045
X-Google-Thread: fc2a5,2eea65c717732ee7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
feeder.erje.net!newsfeed.straub-nv.de!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LC calculation
Date: Sun, 9 Nov 2008 19:22:23 +0100 (CET)
Organization: Mostly In Piles

Lines: 34
Message-ID: <Xns9B517DE0448792MDWN@194.177.96.78>
References: <gf703r071p@news7.newsguy.com> <Xns9B516BFAA892D2MDWN@194.177.96.78>
<gf75n902u84@news3.newsguy.com>
NNTP-Posting-Host: Fe77s3IXOIw7MYD6rPND4g.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Sun, 9 Nov 2008 18:22:23 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1095

Howdy,

Oh, ok! I have seen a tapped down band spread capacitor circuit so I assumed...

I wonder why they did that? Oh, looking at it the another way, the grid impedance loading the parallel tuned circuit is transformed by the turns ratio. Probably to provide some voltage gain from that stage.

If the capacitance of the grid is negligible, then the resonance is determined by the inductance from the portion of the winding paralleled by the variable capacitor.

If you want to include the grid capacitance in parallel with the variable capacitor, multiply it by the turns ratio. Otherwise the solution is essentially the same.

73,
Grumpy

exray <radioexray@geeemail.com> wrote in
news:gf75n902u84@news3.newsguy.com:

> Thanks Grump...gonna save that for my files but I think I need to clarify my question. One cap only...not one across the tank and another on the tap although thats an interesting idea. Maybe this schematic will help.
>
>   http://www.antiqueradios.org/gazette/pix/sw3-1sch.jpg

From -9143233722339743354
X-Google-Thread: fc2a5,2eea65c717732ee7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!spln!extra.newsguy.com!newsp.newsguy.com!

```
news7
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LC calculation
Date: Sun, 09 Nov 2008 16:23:17 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 11
Message-ID: <gf7grm0iq1@news7.newsguy.com>
References: <gf703r071p@news7.newsguy.com> <Xns9B516BFAA892D2MDWN@194.177.96.78>
<gf75n902u84@news3.newsguy.com> <Xns9B517DE0448792MDWN@194.177.96.78>
NNTP-Posting-Host: peebb57f7a1a929b72482433232c283da80dd0796f1186f89.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <Xns9B517DE0448792MDWN@194.177.96.78>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1096
```

Grumpy The Mule wrote:

>
> If the capacitance of the grid is negligible, then the
> resonance is determined by the inductance from the
> portion of the winding paralleled by the variable capacitor.

So what about the 'top' portion of the coil being effectively in series
with the tank? Wouldn't that affect the tank values?

Tnx?

```
From -1301863300546110862
X-Google-Thread: fc2a5,edfb8f5dc4279e6d,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-
me.highwinds-media.com!cyclone1.gnilink.net!gnilink.net!spln!extra.newsguy.com!
newsp.newsguy.com!news7
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: And speaking of the National SW-3
Date: Sun, 09 Nov 2008 16:28:29 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 13
Message-ID: <gf7h5e0j98@news7.newsguy.com>
NNTP-Posting-Host: pa698e8b8024832a286b2175bfc228720a95bbbece28b285e.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1097
```

I pulled mine off the shelf today to dust off the cobwebs. Much to my chagrin I found the tuning capacitor almost frozen stuck. For those that aren't familiar with the construction of these there's a lot of nylon? bushings involved.

I suspect lubrication may be the culprit that causes the nylon to swell up. I was finally able to get it loose enough to where the vernier doesn't slip although it still feels very tight.

Too late for me to avoid lubrication but I thought I'd pass this along for the next guy.

-Bill

From -8358009484175200240
X-Google-Thread: fc2a5,2eea65c717732ee7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!news.mixmin.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LC calculation
Date: Sun, 9 Nov 2008 22:22:48 +0100 (CET)
Organization: Mostly In Piles
Lines: 51
Message-ID: <Xns9B519C76F51022MDWN@194.177.96.78>
References: <gf703r071p@news7.newsguy.com> <Xns9B516BFAA892D2MDWN@194.177.96.78> <gf75n902u84@news3.newsguy.com> <Xns9B517DE0448792MDWN@194.177.96.78> <gf7grm0iq1@news7.newsguy.com>
NNTP-Posting-Host: dNTJSLFlJr4KNxHrfbdvoQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Sun, 9 Nov 2008 21:22:48 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1098

Howdy,

Maybe not. Imagine the top portion disconnected, it would have very little effect. It's no more than a small capacitor swamped out by the tuning capacitance.

I think if the grid capacitance times the square of the turns ratio is small compared to the tuning capacitance, it can be ignored. Because there are other strays that will require a bit of pruning in any case.

The most significant effect would be when the tuning capacitor is at its minimum value. So it's here that it may effect the design of the inductor, requiring a bit less inductance for the desired upper band limit compared to the other tuned winding.

There are no padding capacitors on that schematic. So I suspect there are seperate tuning capacitors for each tuned winding on the transformer. Because of this I believe it's not that critical. You could measure the grid capacitance with the tube mounted in its socket on the chassis. Then add that capacitance times the turns ratio to the value of the tuning capacitor when you calculate the necessary inductance value.

Or build the coil so you can stretch it (slip a few windings further apart) a little once the thing is running. Then secure them with a bit of wax.

73,
Grumpy

exray <radioexray@geeemail.com> wrote in news:gf7grm0iq1@news7.newsguy.com:

> Grumpy The Mule wrote:
>
>>
>> If the capacitance of the grid is negligible, then the
>> resonance is determined by the inductance from the
>> portion of the winding paralleled by the variable capacitor.
>
> So what about the 'top' portion of the coil being effectively in series
> with the tank? Wouldn't that affect the tank values?
>
> Tnx?
>

From -8899130052386034274
X-Google-Thread: fc2a5,2eea65c717732ee7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feeder.erje.net!news2.arglkargh.de!news.mixmin.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LC calculation
Date: Sun, 9 Nov 2008 22:59:12 +0100 (CET)
Organization: Mostly In Piles
Lines: 21
Message-ID: <Xns9B51A2A2980E12MDWN@194.177.96.78>
References: <gf703r071p@news7.newsguy.com> <Xns9B516BFAA892D2MDWN@194.177.96.78> <gf75n902u84@news3.newsguy.com> <Xns9B517DE0448792MDWN@194.177.96.78>

<gf7grm0iq1@news7.newsguy.com> <Xns9B519C76F51022MDWN@194.177.96.78>
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X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Sun, 9 Nov 2008 21:59:12 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1099

Howdy,

Heh! I didn't look at the url for that schematic, it's an SW3!
I love National Radio gear. I had two HRO-500's, sold one, and
there's an FRR-59 in my basment. I regret having sold my pristine
RBL receiver which beat the pants off either the HRO-500 with LF10
or the Racal RAL7 with RA237 for LF/VLF work. My highschool's club
had an NCX-1000 which I lusted after... er, but only in my heart.

But back to the SW3. I recall padder capacitors mounted on the
top of the RF stage coil former. I don't know the value of the
dual gang tuning capacitor but armed with that, Wheeler's formula
and these sites, you could calculate the effect of the grid circuit
to some extent.

http://www.io.com/~nielw/sw3coils.htm
http://www.antiqueradios.org/gazette/swevol.htm

73,
Grumpy

From 4814684760560899387
X-Google-Thread: fc2a5,edfb8f5dc4279e6d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
news2.arglkargh.de!news.mixmin.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: And speaking of the National SW-3
Date: Sun, 9 Nov 2008 23:18:13 +0100 (CET)
Organization: Mostly In Piles
Lines: 26
Message-ID: <Xns9B51A5DC2314B2MDWN@194.177.96.78>
References: <gf7h5e0j98@news7.newsguy.com>
NNTP-Posting-Host: dNTJSLFlJr4KNxHrfbdvoQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Sun, 9 Nov 2008 22:18:13 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1100

Well that's sad. I doubt it's nylon which was invented in 1938,
maybe phenolic? Wood filled phenolic which swells... ugh!
Maybe you can rinse it with solvent then dry it out so it will
shrink back to nominal dimensions. The rest of it is constructed
of isolantite and brass which solvents won't hurt.

exray <radioexray@geeemail.com> wrote in news:gf7h5e0j98@news7.newsguy.com:

> I pulled mine off the shelf today to dust off the cobwebs. Much to my
> chagrin I found the tuning capacitor almost frozen stuck. For those
> that aren't familiar with the construction of these there's a lot of
> nylon? bushings involved.
>
> I suspect lubrication may be the culprit that causes the nylon to swell
> up. I was finally able to get it loose enough to where the vernier
> doesn't slip although it still feels very tight.
>
> Too late for me to avoid lubrication but I thought I'd pass this along
> for the next guy.
>
> -Bill
>

From -3286551539188916577
X-Google-Thread: fc2a5,edfb8f5dc4279e6d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
cyclone1.gnilink.net!gnilink.net!spln!extra.newsguy.com!newsp.newsguy.com!news7
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: And speaking of the National SW-3
Date: Sun, 09 Nov 2008 18:41:42 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 12
Message-ID: <gf7ov70p68@news7.newsguy.com>
References: <gf7h5e0j98@news7.newsguy.com> <Xns9B51A5DC2314B2MDWN@194.177.96.78>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <Xns9B51A5DC2314B2MDWN@194.177.96.78>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1101
X-Original-Bytes: 1385

Grumpy The Mule wrote:
> Well that's sad. I doubt it's nylon which was invented in 1938,

> maybe phenolic? Wood filled phenolic which swells... ugh!
> Maybe you can rinse it with solvent then dry it out so it will
> shrink back to nominal dimensions. The rest of it is constructed
> of isolantite and brass which solvents won't hurt.

Could be phenolic but it really seems like a plastic of sorts. Hard to tell. The front bushing is where it got tight and there's no easy way to get it out for a thorough cleaning.

-Bill

```
From 7469755970482052658
X-Google-Thread: fc2a5,2eea65c717732ee7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-
me.highwinds-media.com!spln!extra.newsguy.com!newsp.newsguy.com!news7
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LC calculation
Date: Sun, 09 Nov 2008 18:48:39 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 21
Message-ID: <gf7pc90pee@news7.newsguy.com>
References: <gf703r071p@news7.newsguy.com> <Xns9B516BFAA892D2MDWN@194.177.96.78>
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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
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In-Reply-To: <Xns9B51A2A2980E12MDWN@194.177.96.78>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1102
```

Grumpy The Mule wrote:
>
> But back to the SW3. I recall padder capacitors mounted on the
> top of the RF stage coil former. I don't know the value of the
> dual gang tuning capacitor but armed with that, Wheeler's formula
> and these sites, you could calculate the effect of the grid circuit
> to some extent.
>
> http://www.io.com/~nielw/sw3coils.htm
> http://www.antiqueradios.org/gazette/swevol.htm

Only the bandspread coils have the trimmer on top and thats basically to set the rough frequency. The main tuning then becomes a bandspread tuning. I've forgotten all this stuff - I'll have to look back at my stuff...maybe the trimmer falls in series with the main tuning caps.

Anyway, thats just an example that came to mind. I've seen others doing
similar tricks for main tune/bandspread tune using the same cap but with
a different coil configuration.

-Bill

```
From 7710958341439760132
X-Google-Thread: fc2a5,2eea65c717732ee7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!z28g2000prd.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LC calculation
Date: Sun, 9 Nov 2008 14:49:26 -0800 (PST)
Organization: http://groups.google.com
Lines: 55
Message-ID: <6913aedb-fd69-421a-99bd-c4ba07399f55@z28g2000prd.googlegroups.com>
References: <gf703r071p@news7.newsguy.com> <Xns9B516BFAA892D2MDWN@194.177.96.78>
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Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 9 Nov 2008 22:49:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z28g2000prd.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
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     Gecko/2008092417 Firefox/3.0.3,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1103
```

On Nov 9, 8:36=A0am, Grumpy The Mule <s_foo...@foo.bar> wrote:

> Howdy,
>
> I'm guessing that it can be solved like this...
> Consider the autotransformer action of the tapped inductor.
> Then divide the tap capacitor (C2) value by the square of the
> turns ratio (N) before adding it to the primary capacitance
> of the parallel tuned circuit (C1.)
>
> F=3D2Pi*sqrt(L(C1+C2/N^2))
>
> I found a rigorous solution in chapter 8 of Alternating
> Current Circuits by K.Y. Tang but it's too messy to type.
>
> 73,
> Grumpy

```
>
> exray <radioex...@geeemail.com> wrote innews:gf703r071p@news7.newsguy.com=
:
>
> > Hi,
> > Can somebody walk me thru the calculation of an LC circuit where the
> > capacitor is tapped down on the coil? =A0I see this often done for
> > bandspreading purposes.
>
> > Tnx,
> > Bill WX4A
>
>

One thing to be a bit careful about is including the coupling between
the coil sections.  Since I don't know how those particular coils were
designed, I can't say for sure, but in general the coupling between
pieces of the coil isn't as high as you might think.

You can make a good estimate for typical HF single-layer air-core
solenoid coils just using your favorite coil calculation.  For
example, consider a coil that's one inch diameter, two inches long, 20
turns per inch, and tapped at the 30th turn (1.5 inches) up from the
bottom.  Then the whole coil is about 16.32uH, the 1.5" part is about
11.54uH, and the top 0.5" is about 2.63uH.  If the coupling were
perfect between the sections, I believe the inductance of the whole
would be about 11.54uH + 2.63uH + 2*sqrt(11.54*2.63)uH =3D 25.19uH.  At
16.32uH for the whole coil, the implied coupling coefficient between
those two sections is only about 0.20, and you need to be careful to
not think of the tapped coil as simply a transformer with a 3:1 turns
ratio, with implied close coupling between the sections.  (This also
illustrates why you can short out turns of a tank coil without totally
killing the net inductance...)

I trust if I've hosed the calculation too badly, someone will point
out the error of my ways.  ;-)

Cheers,
Tom



From -1363143383907655430
X-Google-Thread: fc2a5,2eea65c717732ee7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!news.k-dsl.de!
aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LC calculation
Date: Mon, 10 Nov 2008 01:04:01 +0100 (CET)
Organization: Mostly In Piles
Lines: 57
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Message-ID: <Xns9B51B7CBE74DD2MDWN@194.177.96.78>
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<6913aedb-fd69-421a-99bd-c4ba07399f55@z28g2000prd.googlegroups.com>
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X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Mon, 10 Nov 2008 00:04:01 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1104
```

Howdy,

That's an excellent point. I expect that the sections
of the coil in question will not have very good coupling.
I hadn't considered it! I calculate the same inductance
values.

Bah! In my previous posts the "(sqrtL*C)" should be "(1/sqrtL*C)"
Heh... with a pencil and paper the formula turned out right.
I noticed this when I calculated the resonance of the two
values 16.32uH and 11.54uH with an arbitrary value of 50pF
just to verify how I thought things should be.

So from this I gather that the extension of the coil
connected to the grid circuit will have even less
effect on the tuning than I expected.

The Easy Teenage NewYork method of solving this would be
to put the problem into SPICE with the estimated coupling
coefficent of 0.2.

I've never liked shorting turns to reduce an inductance.
Seems like an avoidable source of some losses no matter
how you slice it. But for some long coils, like antennas,
it works ok. I guess.

K7ITM <k7itm@msn.com> wrote in
news:6913aedb-fd69-421a-99bd-c4ba07399f55@z28g2000prd.googlegroups.com:

> One thing to be a bit careful about is including the coupling between
> the coil sections. Since I don't know how those particular coils were
> designed, I can't say for sure, but in general the coupling between
> pieces of the coil isn't as high as you might think.
>
> You can make a good estimate for typical HF single-layer air-core
> solenoid coils just using your favorite coil calculation. For
> example, consider a coil that's one inch diameter, two inches long, 20
> turns per inch, and tapped at the 30th turn (1.5 inches) up from the
> bottom. Then the whole coil is about 16.32uH, the 1.5" part is about
> 11.54uH, and the top 0.5" is about 2.63uH. If the coupling were
> perfect between the sections, I believe the inductance of the whole

> would be about 11.54uH + 2.63uH + 2*sqrt(11.54*2.63)uH = 25.19uH. At
> 16.32uH for the whole coil, the implied coupling coefficient between
> those two sections is only about 0.20, and you need to be careful to
> not think of the tapped coil as simply a transformer with a 3:1 turns
> ratio, with implied close coupling between the sections. (This also
> illustrates why you can short out turns of a tank coil without totally
> killing the net inductance...)
>
> I trust if I've hosed the calculation too badly, someone will point
> out the error of my ways. ;-)
>
> Cheers,
> Tom

From -4793273142192846585
X-Google-Thread: fc2a5,4da60416ef44f0c4,start
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
d36g2000prf.googlegroups.com!not-for-mail
From: KC7PM <tedcowan@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Article about a portable PC that runs on 12v?
Date: Sun, 9 Nov 2008 16:20:46 -0800 (PST)
Organization: http://groups.google.com
Lines: 7
Message-ID: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com>
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Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1226276447 10750 127.0.0.1 (10 Nov 2008 00:20:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 10 Nov 2008 00:20:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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525.20.1,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1105

I saw something in the last year or two about building a PC that runs
entirely on 12V and with low power consumption. Does anyone know
where I can find that article or website?

Thanks in advance...

...ted, KC7PM

From -959768219293554245
X-Google-Thread: fc2a5,edfb8f5dc4279e6d
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bignews8.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: And speaking of the National SW-3
References: <gf7h5e0j98@news7.newsguy.com> <Xns9B51A5DC2314B2MDWN@194.177.96.78>
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X-Abuse-Info: Please forward a copy of all headers for proper handling
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NNTP-Posting-Date: Sun, 09 Nov 2008 19:27:53 EST
Organization: BellSouth Internet Group
Date: Sun, 09 Nov 2008 19:30:27 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1106

exray wrote:
> Grumpy The Mule wrote:
>> Well that's sad. I doubt it's nylon which was invented in 1938,
>> maybe phenolic? Wood filled phenolic which swells... ugh!
>> Maybe you can rinse it with solvent then dry it out so it will
>> shrink back to nominal dimensions. The rest of it is constructed
>> of isolantite and brass which solvents won't hurt.
>
> Could be phenolic but it really seems like a plastic of sorts. Hard to
> tell. The front bushing is where it got tight and there's no easy way
> to get it out for a thorough cleaning.
>
> -Bill

That is a VERY weird capacitor. First of all it tunes through 270
degrees of rotation using a unique shape of rotor plate, stator plates
are triangular. Second weird thing is that the shaft bearings are
insulated from the frame, the rotor is grounded at a single point, a
flexible conductor running though the hollow shaft and grounded at the
rear of the rotor. I have a single gang version of that capacitor that
was 'featured' in the one tube regenerative receiver from the A. P.
Morgan 'Boy Electrician' book from the 50's. National did make scales
for their velvet vernier dials that went through 270 degrees of rotation
for use with these capacitors.

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From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LC calculation
References: <gf703r071p@news7.newsguy.com> <Xns9B516BFAA892D2MDWN@194.177.96.78>
<gf75n902u84@news3.newsguy.com> <Xns9B517DE0448792MDWN@194.177.96.78>
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NNTP-Posting-Date: Sun, 09 Nov 2008 19:32:32 EST
Organization: BellSouth Internet Group
Date: Sun, 09 Nov 2008 19:35:06 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1107

Grumpy The Mule wrote:
> Howdy,
>
> Heh!  I didn't look at the url for that schematic, it's an SW3!
> I love National Radio gear.  I had two HRO-500's, sold one, and
> there's an FRR-59 in my basment.  I regret having sold my pristine
> RBL receiver which beat the pants off either the HRO-500 with LF10
> or the Racal RAL7 with RA237 for LF/VLF work.  My highschool's club
> had an NCX-1000 which I lusted after... er, but only in my heart.
>
> But back to the SW3.  I recall padder capacitors mounted on the
> top of the RF stage coil former.  I don't know the value of the
> dual gang tuning capacitor but armed with that, Wheeler's formula
> and these sites, you could calculate the effect of the grid circuit
> to some extent.
>
> http://www.io.com/~nielw/sw3coils.htm
> http://www.antiqueradios.org/gazette/swevol.htm
>
>
```

> 73,
> Grumpy

IIRC the SW3 used a dual 100uuf capacitor. It's a weird one that
tunes through 270 degrees of rotation.

From 7435471630822556668
X-Google-Thread: fc2a5,edfb8f5dc4279e6d
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newsp.newsguy.com!news7
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: And speaking of the National SW-3
Date: Sun, 09 Nov 2008 21:33:14 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 19
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<gf7ov70p68@news7.newsguy.com> <deLRk.1014$Lv6.532@bignews8.bellsouth.net>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:1108

ken scharf wrote:

> That is a VERY weird capacitor. First of all it tunes through 270
> degrees of rotation using a unique shape of rotor plate, stator plates
> are triangular. Second weird thing is that the shaft bearings are
> insulated from the frame, the rotor is grounded at a single point, a
> flexible conductor running though the hollow shaft and grounded at the
> rear of the rotor. I have a single gang version of that capacitor that
> was 'featured' in the one tube regenerative receiver from the A. P.
> Morgan 'Boy Electrician' book from the 50's. National did make scales
> for their velvet vernier dials that went through 270 degrees of rotation
> for use with these capacitors.

Agree with WEIRD. After goofing around with it I had a heck of a time
getting everything realigned. Never did see a way to completely
disassemble it.
Whats your take on the type of insulating material?

-Bill

From -3124557508695999377
X-Google-Thread: fc2a5,4da60416ef44f0c4

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gnilink.net!nwrddc01.gnilink.net.POSTED!f4af025b!not-for-mail
From: "Norm Mann" <folder0735@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com>
Subject: Re: Article about a portable PC that runs on 12v?
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
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Message-ID: <dUMRk.499$U5.420@nwrddc01.gnilink.net>
Date: Mon, 10 Nov 2008 02:20:57 GMT
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NNTP-Posting-Date: Sun, 09 Nov 2008 21:20:57 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:1109
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"KC7PM" <tedcowan@gmail.com> wrote in message
news:eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com...

>I saw something in the last year or two about building a PC that runs
> entirely on 12V and with low power consumption. Does anyone know
> where I can find that article or website?

I think I remember something in QST awhile back, but I'm sure it was more than a couple years ago. IIRC, the author had a bad battery pack for his laptop, so he rebuilt it by removing the bad section and providing a connector to bridge the remaining batteries (for charging) and to power the laptop externally with a 12VDC supply.

Hope This Helps,

-NM

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From 6310111404955421686
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news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!
newsp.newsguy.com!news4
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From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Article about a portable PC that runs on 12v?
Date: Sun, 09 Nov 2008 22:30:13 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 26
Message-ID: <gf86bm01cqi@news4.newsguy.com>
References: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com>
<dUMRk.499$U5.420@nwrddc01.gnilink.net>
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In-Reply-To: <dUMRk.499$U5.420@nwrddc01.gnilink.net>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1110

Norm Mann wrote:
> "KC7PM" <tedcowan@gmail.com> wrote in message
> news:eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com...
>> I saw something in the last year or two about building a PC that runs
>> entirely on 12V and with low power consumption. Does anyone know
>> where I can find that article or website?
>
> I think I remember something in QST awhile back, but I'm sure it was more
> than a couple years ago. IIRC, the author had a bad battery pack for his
> laptop, so he rebuilt it by removing the bad section and providing a
> connector to bridge the remaining batteries (for charging) and to power the
> laptop externally with a 12VDC supply.
>
> Hope This Helps,
>
> -NM
>
>
>
I heard a guy on a radio program just last week describing a small
notebook - about half to 3/4 the size of a normal one. Uses flash
drives instead of a hard drive. Said power consumption wasn't much more
than a well equipped cellphone. Sounds incredible, don't know if such a
thing is actually on the market yet. Just FYI.

-Bill

From 8776983462180933909
X-Google-Thread: fc2a5,4da60416ef44f0c4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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From: bob prohaska's usenet account <bp@www.zefox.net>

Subject: Re: Article about a portable PC that runs on 12v?
Newsgroups: rec.radio.amateur.homebrew
References: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com>
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Lines: 15
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NNTP-Posting-Host: 69.239.235.194
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Date: Mon, 10 Nov 2008 03:24:30 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:1111

KC7PM <tedcowan@gmail.com> wrote:
> I saw something in the last year or two about building a PC that runs
> entirely on 12V and with low power consumption. Does anyone know
> where I can find that article or website?

You might take a look at
http://www.idotpc.com/thestore/pc/viewCategories.asp?idCategory=68
to see what they have to offer. Apparently it's not difficult to get
a 12 volt input computer power supply that fits one of the standard
compact cases.

HTH,

bob prohaska

From -5113322058743702754
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Article about a portable PC that runs on 12v?
Date: Mon, 10 Nov 2008 06:19:03 +0000 (UTC)
Organization: MGT Consulting
Lines: 16
Message-ID: <slrnghfkav.k38.gsm@cable.mendelson.com>
References: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com> <dUMRk.499$U5.420@nwrddc01.gnilink.net> <gf86bm01cqi@news4.newsguy.com>

Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-138-75-80.bb.netvision.net.il
X-Trace: max.inside.misty.com 1226297943 14342 89.138.75.80 (10 Nov 2008 06:19:03 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Mon, 10 Nov 2008 06:19:03 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1112

exray wrote:

> I heard a guy on a radio program just last week describing a small
> notebook - about half to 3/4 the size of a normal one. Uses flash
> drives instead of a hard drive. Said power consumption wasn't much more
> than a well equipped cellphone. Sounds incredible, don't know if such a
> thing is actually on the market yet. Just FYI.

MacBook Air, Asus EEE, Acer 100, and a whole bunch of no name clones.

If you are in the UK, Elonex ONE, which sells for 100 quid.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM

From 6184001980629661632
X-Google-Thread: fc2a5,4da60416ef44f0c4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!news-1.dfn.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Article about a portable PC that runs on 12v?
Date: Mon, 10 Nov 2008 07:32:48 +0000
Organization: Bias Comms
Lines: 23
Message-ID: <6nq6dpF6rcpU1@mid.individual.net>
References: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com> <dUMRk.499$U5.420@nwrddc01.gnilink.net> <gf86bm01cqi@news4.newsguy.com>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net RRbwnlgKoWRWiLt1BOY7fQFrles4MpVG29PgZ34L+v4awEphdX
Cancel-Lock: sha1:ZcO1SE7VGhmvjYrtSNQlzdis7JY=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1113

exray wrote:

> I heard a guy on a radio program just last week describing a small
> notebook - about half to 3/4 the size of a normal one. Uses flash
> drives instead of a hard drive. Said power consumption wasn't much more
> than a well equipped cellphone. Sounds incredible, don't know if such a
> thing is actually on the market yet. Just FYI.

The thing you want is the Asus EEE PC:

http://eeepc.asus.com/global/products.html?n=0

Don't bother with the Windows version - it makes it almost as expensive as a full-size laptop, and suffers from all the multitude of Windows problems. The original version runs Xandros Linux, and there's a /huge/ range of software available at no cost, including lots of electronic design and ham radio programs.

I use one for a mobile packet station, for logging and for morse or teletype modes.

Bob

```
From 5860026374654785022
X-Google-Thread: 108122,1ff8aa972babfa73,start
X-Google-Thread: fc2a5,1ff8aa972babfa73,start
X-Google-Thread: 107ada,1ff8aa972babfa73,start
X-Google-Thread: 110c99,1ff8aa972babfa73,start
X-Google-Thread: 111320,1ff8aa972babfa73,start
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i18g2000prf.googlegroups.com!not-for-
mail
From: tyreemand@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: The London Fetish Week Survival Guide for North Americans
Date: Mon, 10 Nov 2008 03:43:32 -0800 (PST)
Organization: http://groups.google.com
Lines: 2
Message-ID: <96d34299-5de5-468f-9e54-86a28f29327a@i18g2000prf.googlegroups.com>
NNTP-Posting-Host: 92.112.157.79
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1226317412 4217 127.0.0.1 (10 Nov 2008 11:43:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 10 Nov 2008 11:43:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
```

```
Injection-Info: i18g2000prf.googlegroups.com; posting-host=92.112.157.79;
     posting-account=8N4mVgoAAABmLLkJQvSeZsuS_r9oM6nG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:829
rec.radio.amateur.homebrew:1114 rec.radio.amateur.misc:1541 rec.running:5015
rec.scouting.issues:940
```

Magazine BDSM http://magazin.byethost2.com Hands-down, London has some
the best fetish party weekends around.

```
From -1542991654907256122
X-Google-Thread: fc2a5,edfb8f5dc4279e6d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!i18g2000prf.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: And speaking of the National SW-3
Date: Mon, 10 Nov 2008 05:36:11 -0800 (PST)
Organization: http://groups.google.com
Lines: 20
Message-ID: <e3cdd4c4-06c8-43da-b30b-21a2de769847@i18g2000prf.googlegroups.com>
References: <gf7h5e0j98@news7.newsguy.com> <Xns9B51A5DC2314B2MDWN@194.177.96.78>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1226324171 18535 127.0.0.1 (10 Nov 2008 13:36:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 10 Nov 2008 13:36:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i18g2000prf.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1115
```

On Nov 9, 5:18=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> Well that's sad. =A0I doubt it's nylon which was invented in 1938,
> maybe phenolic? =A0Wood filled phenolic which swells... ugh!
> Maybe you can rinse it with solvent then dry it out so it will
> shrink back to nominal dimensions. =A0The rest of it is constructed
> of isolantite and brass which solvents won't hurt.

I have witnessed 50 or 70 year old variable capacitors of
low-to-middle grade construction where I swear it's the metal

that's swelling. The spacers between plates seem to have expanded or contracted so that while the rotor/stator mesh is centered at the center of the capacitor, at the ends the rotor and stator are nearly touching.

Others tell me this is well-known but I still don't have any understanding of why metal would shrink or grow with time.

Tim N3QE

```
From -9159346874748423067
X-Google-Thread: fc2a5,bf73bcde541085a4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!p35g2000prm.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: smps mod
Date: Mon, 10 Nov 2008 06:38:35 -0800 (PST)
Organization: http://groups.google.com
Lines: 30
Message-ID: <fef81e21-2f94-495f-9039-17045d1ae7ec@p35g2000prm.googlegroups.com>
References: <e8aa2cc3-52af-40c4-9eed-35595f1fb460@v16g2000prc.googlegroups.com>
     <Xns9B4F72320E8602MDWN@194.177.96.78> <Xns9B4FAAC0510342MDWN@194.177.96.78>
     <da8150b8-d79d-4b31-8d67-4895af2ddbef@v13g2000pro.googlegroups.com>
     <Xns9B50F30E9859A2MDWN@194.177.96.78> <1c076d7b-e48a-4098-b2da-
b41e256dc8de@k36g2000pri.googlegroups.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1226327915 3284 127.0.0.1 (10 Nov 2008 14:38:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 10 Nov 2008 14:38:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p35g2000prm.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1116
```

```
On Nov 9, 10:10=A0am, JIMMIE <jimmi...@gmail.com> wrote:
> On Nov 9, 12:53=A0am, Grumpy The Mule <s_foo...@foo.bar> wrote:
>
> > Oh, that's a good point... at best Jimmie could get half
> > as much per output. =A0+/- 15V at 12.5A =A0for the 375W output
> > that the primary circuits and transformer are designed for.
>
```

> Well it works but it wasnt as easy as I thought it would be.
> Putting in the bridge was the easy part. I still had to find a
> place for another filter cap and a choke. The caps werent =A0too
> much of a problem. I removed the origonal one and was able
> to fit 2new smaller ones in their place. Since I was going to
> drawing a lot less current than the PS was designed I
> figured I could use smaller caps. I still havent settled on
> where to place the choke. Its just hanging out the side
> for now. I will eventually try some fast recovery diodes but
> since the power supply origonally use stardard recovery
> diodes that is what I will use for now. The heat sink the
> diodes are mounted on get fairly warm, maybe fast ones
> will help this.
>
> Jimmie

Trying to figure this one out, The choke has two small wires
going back to the circuit board to a potentiometer and some
unidentifyable ICs. The pot is sealed with RTV. I am guessing
this is for overcurrent sensing. If I could verify this I would like
to set it to activate at about 10 amps.

Jimmie

From -3490809665342907951
X-Google-Thread: fc2a5,edfb8f5dc4279e6d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!spln!extra.newsguy.com!newsp.newsguy.com!news3
From: exray <radioexray@geeemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: And speaking of the National SW-3
Date: Mon, 10 Nov 2008 10:38:27 -0400
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 15
Message-ID: <gf9h14022h3@news3.newsguy.com>
References: <gf7h5e0j98@news7.newsguy.com> <Xns9B51A5DC2314B2MDWN@194.177.96.78>
<e3cdd4c4-06c8-43da-b30b-21a2de769847@i18g2000prf.googlegroups.com>
NNTP-Posting-Host: p24d1bfbfff00000073b1290e905b03f4f4edcc2ec7af5129.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
In-Reply-To: <e3cdd4c4-06c8-43da-b30b-21a2de769847@i18g2000prf.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1117

Tim Shoppa wrote:

>
> Others tell me this is well-known but I still don't have any

```
> understanding
> of why metal would shrink or grow with time.
>
> Tim N3QE

Where there's pot metal involved it certainly swells up.  Thats a
scourge in 1920s sets that use pot metal pulleys, brackets and capacitor
frames.  My understanding is that it is due to reaction/corrosion
between the various metals in the 'pot' mix.

-Bill



From -8940977898571290504
X-Google-Thread: fc2a5,edfb8f5dc4279e6d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!t18g2000prt.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: And speaking of the National SW-3
Date: Mon, 10 Nov 2008 07:28:26 -0800 (PST)
Organization: http://groups.google.com
Lines: 28
Message-ID: <34fd28db-79ae-4b85-9368-3d53afb8fe91@t18g2000prt.googlegroups.com>
References: <gf7h5e0j98@news7.newsguy.com> <Xns9B51A5DC2314B2MDWN@194.177.96.78>
     <e3cdd4c4-06c8-43da-b30b-21a2de769847@i18g2000prf.googlegroups.com>
     <gf9h14022h3@news3.newsguy.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1226330906 12148 127.0.0.1 (10 Nov 2008 15:28:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 10 Nov 2008 15:28:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t18g2000prt.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1118

On Nov 10, 9:38=A0am, exray <radioex...@geeemail.com> wrote:
> Tim Shoppa wrote:
>
> > Others tell me this is well-known but I still don't have any
> > understanding
> > of why metal would shrink or grow with time.
>
> > Tim N3QE
>
```

> Where there's pot metal involved it certainly swells up. =A0Thats a
> scourge in 1920s sets that use pot metal pulleys, brackets and capacitor
> frames. =A0My understanding is that it is due to reaction/corrosion
> between the various metals in the 'pot' mix.
>
> -Bill

This sounds like what may have happened to some old drives I had.
A guy gave me half a bushel of the things telling me he thought they
would work if I cleaned them up. I bet he had gone through the other
half a bushel trying. I was able to repair a few by drilling out the
holes
and inserting the brass ferrules removed from old pots. I hope this
proved
to be a good fix and the guy that bought them from me isnt cursing
me too loudly.

Jimmie

From -2754878269839326542
X-Google-Thread: fc2a5,edfb8f5dc4279e6d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!e1g2000pra.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: And speaking of the National SW-3
Date: Mon, 10 Nov 2008 07:58:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 35
Message-ID: <ad9e1c4c-02ed-4bb3-b1b8-479e9c8bcf49@e1g2000pra.googlegroups.com>
References: <gf7h5e0j98@news7.newsguy.com> <Xns9B51A5DC2314B2MDWN@194.177.96.78>
     <e3cdd4c4-06c8-43da-b30b-21a2de769847@i18g2000prf.googlegroups.com>
     <gf9h14022h3@news3.newsguy.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1226332708 9585 127.0.0.1 (10 Nov 2008 15:58:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 10 Nov 2008 15:58:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e1g2000pra.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1119

On Nov 10, 9:38=A0am, exray <radioex...@geeemail.com> wrote:

> Tim Shoppa wrote:
>
> > Others tell me this is well-known but I still don't have any
> > understanding
> > of why metal would shrink or grow with time.
>
> > Tim N3QE
>
> Where there's pot metal involved it certainly swells up. =A0Thats a
> scourge in 1920s sets that use pot metal pulleys, brackets and capacitor
> frames. =A0My understanding is that it is due to reaction/corrosion
> between the various metals in the 'pot' mix.

Well, my metallurgy knowledge has always been particularly poor.

With the problem variables I have on the shelf, the issue isn't
necessarily
the spacing between adjacent plates but the cumulative swelling
over a dozen or more spacers.

I have discovered that by disassembling the caps and grinding
every 3rd or 4th spacer down by a smidgen that the result seems
just fine.

This only helps on the capacitors that can be disassembled... but the
pot metal spacer problem seems to be worst in the kind that can be
disassembled.

Some later top-quality air variables I have use something that
is either welding or silver brazing to space/hold the elements on a
solid rod. These do not have the spacing problems. They're pieces
of beauty...!

Tim.

```
From -2931078715227896765
X-Google-Thread: fc2a5,2eea65c717732ee7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l33g2000pri.googlegroups.com!not-for-
mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LC calculation
Date: Mon, 10 Nov 2008 12:30:27 -0800 (PST)
Organization: http://groups.google.com
Lines: 5
Message-ID: <fe688924-41c1-4d72-90c7-0ac8b9069a94@l33g2000pri.googlegroups.com>
References: <gf703r071p@news7.newsguy.com> <Xns9B516BFAA892D2MDWN@194.177.96.78>
     <6913aedb-fd69-421a-99bd-c4ba07399f55@z28g2000prd.googlegroups.com>
     <Xns9B51B7CBE74DD2MDWN@194.177.96.78>
NNTP-Posting-Host: 97.84.198.74
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1226349028 2042 127.0.0.1 (10 Nov 2008 20:30:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 10 Nov 2008 20:30:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l33g2000pri.googlegroups.com; posting-host=97.84.198.74;
     posting-account=K8YolwoAAADy0A2iW37gF9k2mykeXqaI
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1120
```

Hmmm, looks to me like that tapped tank is the oscillator set up for
the super regeneration...

denny ... k8do

```
From -5090962230791427208
X-Google-Thread: fc2a5,2eea65c717732ee7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!q26g2000prq.googlegroups.com!not-for-
mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LC calculation
Date: Mon, 10 Nov 2008 12:58:22 -0800 (PST)
Organization: http://groups.google.com
Lines: 15
Message-ID: <25b97c0d-05ea-4b85-9f22-f704e50452aa@q26g2000prq.googlegroups.com>
References: <gf703r071p@news7.newsguy.com> <Xns9B516BFAA892D2MDWN@194.177.96.78>
     <6913aedb-fd69-421a-99bd-c4ba07399f55@z28g2000prd.googlegroups.com>
     <Xns9B51B7CBE74DD2MDWN@194.177.96.78>
<fe688924-41c1-4d72-90c7-0ac8b9069a94@l33g2000pri.googlegroups.com>
NNTP-Posting-Host: 97.84.198.74
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1226350702 27237 127.0.0.1 (10 Nov 2008 20:58:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 10 Nov 2008 20:58:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q26g2000prq.googlegroups.com; posting-host=97.84.198.74;
     posting-account=K8YolwoAAADy0A2iW37gF9k2mykeXqaI
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3572
```

On Nov 10, 3:30=A0pm, Denny <k...@mailblocks.com> wrote:
> Hmmm, looks to me like that tapped tank is the oscillator set up for
> the super regeneration...
>
> denny ... =A0k8do

And a second thought is see the same thing on the second stage, where the top portion of that tank is in series between the tank and the control grid... Redraw that circuit in your head so that the top portion of coil is bent over at a right angle to the tank... I wonder if the grid to cathode capacity is too high for comfort and the series section of coil is for taming that... We do that for amplifiers on 10 meters where the plate capacity is too high for comfortable tuning... A small series coil between the plate and the tank calms that down...

From -712233069082333820
X-Google-Thread: fc2a5,73da5d236724bb26,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
news.tele.dk!news.tele.dk!small.news.tele.dk!newspeer1.se.telia.net!se.telia.net!
masternews.telia.net.!newsb.telia.net.POSTED!not-for-mail
From: "Harry Lippitz" <johnsmith@micro$oft.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SM0VPO Homeages - Update
Lines: 46
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <MJ1Sk.3973$U5.25690@newsb.telia.net>
Date: Mon, 10 Nov 2008 21:30:20 GMT
NNTP-Posting-Host: 81.227.200.9
X-Complaints-To: abuse@telia.com
X-Trace: newsb.telia.net 1226352620 81.227.200.9 (Mon, 10 Nov 2008 22:30:20 CET)
NNTP-Posting-Date: Mon, 10 Nov 2008 22:30:20 CET
Organization: Telia Internet
Xref: g2news2.google.com rec.radio.amateur.homebrew:3573

Hi all,

A few things have happened since my last update. The homepages are to be found at http://web.telia.com/~u85920178/ where there are some 250+ projects, many with PCB foil patterns in BMP format, 250 dpi. This means you do not need any special software to view it.

The lastest project was DIY transformers. the link is http://web.telia.com/~u85920178/power/diy_transformers.htm and it uses those cheap transformers from http://www.kjell.com

I also did an article on diode switching basics, but this I also translated into Swedish and sent to the SSA for publication. The URL for the original article is http://web.telia.com/~u85920178/data/diode_switching_01.htm

The old messageboard is now defunkt - kaput - deceased. Instyead I have a nice new forum at http://sm0vpo.wahlberg.cc but you should bookmark the address http://web.telia.com/~u85920178/board.htm so that I can again change in the future. The new board is hosted by Magnus Wahlberg in Eskilstuna, and a fine thing it is too. Message at the bottom do not just drop off into space. Old messages stay there until I or a moderator deletes them.

Perhaps you never thought about it, but the old formula for frequency = 1 / 2 x Pi x Root(LC), and the only variables are F, L and C. So for any value of F you can build a table of Root(LC) values. For example an index of 1MHz = 25000. If you divide 25000 by 250pf you need 25000/250 = 100uH for resonance.The value for 2MHz is 6250, so if you subtract one index from the other, you can work out the variable capacitor you need to track tuning between the two frequencies. The article is at http://web.telia.com/~u85920178/data/tune_01.htm

Future articles are many and I have several that are all nearing completion. Progress is interrupted by a speeding ticket with one of those stooopid speed cameras. Now I know how they function I will shortly be publishing a speed-camera blocker. I will also offer a few in kit form, until I get my 2400:- back.

I have also finished a "Generating 230V AC Power in 5 Minutes" video film. The link is at http://www.youtube.com/watch?v=t3yvdXIjGSo

Best regards to all from Harry - SM0VPO
SKYPE: "harry.sm0vpo"
E-mail: oeieio@hotmail.com

From -7537976806844311223
X-Google-Thread: fc2a5,4da60416ef44f0c4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 10 Nov 2008 15:45:40 -0600
Date: Mon, 10 Nov 2008 21:46:51 +0000
From: highlandham <rfburns@nospam.sco>
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Article about a portable PC that runs on 12v?
References: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com>
In-Reply-To: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com>

```
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <tN6dnTLjt9YZNoXUnZ2dneKdnZydnZ2d@pipex.net>
Lines: 12
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 86.43.208.126
X-Trace: sv3-6iTuGPoWvlOAB6QdAaUvM+iCBMXM62aIOUzQlZJA7v1aAPgV/
NGwGbvFp561+UHwtK94+wsA2SsxY1T!34tD0AB1rZyNU60LGP9p5PqvYWRQ2ueUXuFlhJ47m0ylUZRN/
TQNx6pJg6zjKejxsz6agZMC/IiG!rqq9nIcxv2Sf3RHDhdHcvjLYkA==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3574

KC7PM wrote:
> I saw something in the last year or two about building a PC that runs
> entirely on 12V and with low power consumption.  Does anyone know
> where I can find that article or website?
=============================================
The new generationn of mini-laptops like Asus eeePC and I believe also
the similar devices from Acer and Dell run on 12 V -DC


Frank   GM0CSZ / KN6WH

PS:I am happy with the eeePC


From -6067438423823161671
X-Google-Thread: fc2a5,f80d45dc7d8eafa1,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2!wns14feed!
worldnet.att.net!209.197.12.246!nx02.iad.newshosting.com!newshosting.com!
69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!not-for-mail
From: "K" <K@spam.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: EAC R-390A HF Receiver Auction # 280283671494
Date: Mon, 10 Nov 2008 14:04:36 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Lines: 6
Message-ID: <4918aff7$0$17064$9a6e19ea@unlimited.newshosting.com>
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
NNTP-Posting-Host: 98.150.29.193
X-Complaints-To: abuse@newshosting.com
```

```
Xref: g2news2.google.com rec.radio.amateur.homebrew:3575

FA: EAC R-390A HF Receiver Auction # 280283671494 or click on below:
     http://fyad.org/wq4z








From -5935936334660446708
X-Google-Thread: fc2a5,4da60416ef44f0c4
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!l33g2000pri.googlegroups.com!not-for-
mail
From: JIMMIE <jimmie68@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Article about a portable PC that runs on 12v?
Date: Mon, 10 Nov 2008 14:09:58 -0800 (PST)
Organization: http://groups.google.com
Lines: 20
Message-ID: <90853ff4-a29e-4167-900c-77583682f7f0@l33g2000pri.googlegroups.com>
References: <eae6e066-6db4-493a-bccf-5e0b6b7c4f6a@d36g2000prf.googlegroups.com>
     <tN6dnTLjt9YZNoXUnZ2dneKdnZydnZ2d@pipex.net>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1226354999 19587 127.0.0.1 (10 Nov 2008 22:09:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 10 Nov 2008 22:09:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l33g2000pri.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1125

On Nov 10, 4:46=A0pm, highlandham <rfbu...@nospam.sco> wrote:
> KC7PM wrote:
> > I saw something in the last year or two about building a PC that runs
> > entirely on 12V and with low power consumption. =A0Does anyone know
> > where I can find that article or website?
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
> The new generationn of mini-laptops like Asus eeePC and I believe also
> the similar devices from Acer and Dell run on 12 V -DC
>
> Frank =A0 GM0CSZ / KN6WH
>
```

> PS:I am happy with the eeePC

They are a great little PC at a GREAT price. They are not selling so
hot,
Maybe the price will get even better.

Jimmie

From -2613695343751621127
X-Google-Thread: 108122,4b7fdd235427f948
X-Google-Thread: fc2a5,4b7fdd235427f948
X-Google-Thread: 107ada,4b7fdd235427f948
X-Google-Thread: 110c99,4b7fdd235427f948
X-Google-Thread: 111320,4b7fdd235427f948
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!x41g2000hsb.googlegroups.com!not-for-mail
From: tyreemand@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.running,rec.scouting.issues
Subject: BDSM HARDCORE 1 Tb movi
Date: Sat, 25 Oct 2008 06:44:32 -0700 (PDT)
Organization: http://groups.google.com
Lines: 2
Message-ID: <1b878a33-4cd4-46af-9cc7-7a86b294ede4@x41g2000hsb.googlegroups.com>
NNTP-Posting-Host: 92.112.230.221
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1224942272 29687 127.0.0.1 (25 Oct 2008 13:44:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 25 Oct 2008 13:44:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x41g2000hsb.googlegroups.com; posting-host=92.112.230.221;
     posting-account=8N4mVgoAAABmLLkJQvSeZsuS_r9oM6nG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser; Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:3132
rec.radio.amateur.homebrew:3425 rec.radio.amateur.misc:9391 rec.running:23943
rec.scouting.issues:3843

 http://traxanki.byethost15.com/bdsm.htm BDSM   http://traxanki.byethost15.com/hardcore.htm
HARDCORE http://s0x0.blogspot.com http://groups.google.com/group/porntube-best-movies-collection

```
From -2637108847417871075
X-Google-Thread: fc2a5,b1747999824bd3f2,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!x41g2000hsb.googlegroups.com!not-for-
mail
From: Vintage <radiovintage2000@yahoo.it>
Newsgroups: rec.radio.amateur.homebrew
Subject: Yaesu FP-301 sale
Date: Sat, 25 Oct 2008 10:15:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 3
Message-ID: <52932660-34e5-41f9-ad9a-182962f35301@x41g2000hsb.googlegroups.com>
NNTP-Posting-Host: 87.7.221.94
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1224954904 3108 127.0.0.1 (25 Oct 2008 17:15:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 25 Oct 2008 17:15:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x41g2000hsb.googlegroups.com; posting-host=87.7.221.94;
     posting-account=RipOkAoAAAB32s8w43jyZFhxuNS9HKXD
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3426

I sell Power Supply Yaesu FP-301 in Good Condition , For Info please
write to me at   Radiovintage2000@yahoo.it
Tnx Frank


From -2948172903289141550
X-Google-Thread: fc2a5,5b1dfd51c4f23d07,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!n1g2000prb.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Date: Sat, 25 Oct 2008 10:25:23 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
NNTP-Posting-Host: 76.226.99.187
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1224955524 4835 127.0.0.1 (25 Oct 2008 17:25:24 GMT)
X-Complaints-To: groups-abuse@google.com
```

NNTP-Posting-Date: Sat, 25 Oct 2008 17:25:24 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n1g2000prb.googlegroups.com; posting-host=76.226.99.187;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.17)
     Gecko/20080829 Firefox/2.0.0.17,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3427

Hey all:

I tore down a transformer I got from ebay it was a Zenith TV power
transformer from days gone by. Re wound it with 17AWG wire on the
secondary and primary. It powers up my 4-1000A filament nicely with
7.25VAC from 120VAC mains. I used a penta-filar winding on the
secondary. Shimmed the bobbin in the core window with some 1/8 thick
virgin teflon. Epoxied the windings to the bobbin. This was a 240VA
transformer and now is a 83watt buzzer / 157watt filament transformer.

So what is the cheapest I can gits away with sealing these laminations
from buzzing, I used up all my epoxy sealing the windings.

73

n8zu

From -8481104481442728980
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!69.16.185.16.MISMATCH!
npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!post02.iad.highwinds-media.com!newsfe19.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.radio.amateur.equipment
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
<49020D38.B232C623@hovnanian.com> <89e3cfad-c877-4be6-8eca-53993e23a9e9@h2g2000hsg.googlegroups.com>
Subject: Re: 868MHz Propagation problem
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <m0MMk.5597$3w.704@newsfe19.iad>

NNTP-Posting-Host: 72.192.52.79
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe19.iad 1224969362 72.192.52.79 (Sat, 25 Oct 2008 21:16:02 UTC)
NNTP-Posting-Date: Sat, 25 Oct 2008 21:16:02 UTC
Organization: Cox
Date: Sat, 25 Oct 2008 17:15:44 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:977
rec.radio.amateur.antenna:4951 sci.electronics.design:38031
rec.radio.amateur.equipment:774

"Mark" <makolber@yahoo.com> wrote in message news:89e3cfad-c877-4be6-8eca-
wow so many of these replies are wrong..

in almost all cases, RF path losses are RECIPROCAL.

(It is very unusual for RF path loss to be non-reciprocal.

Mark

I agree. But, one thing that should be proven is that both modules
are working as intended. The one being used for the remote
application *could* be defective. Swap modules and see if the
receiving problem also switches locations, or remains the
same.

Pete

From 3989259212644460З
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!q30g2000prq.googlegroups.com!not-for-mail
From: mark.aren.nz@gmail.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.radio.amateur.equipment
Subject: Re: 868MHz Propagation problem
Date: Sat, 25 Oct 2008 14:43:18 -0700 (PDT)
Organization: http://groups.google.com
Lines: 80
Message-ID: <e3b3f28c-4e39-485d-9b6e-3120840bf34e@q30g2000prq.googlegroups.com>
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
<49020D38.B232C623@hovnanian.com> <89e3cfad-

c877-4be6-8eca-53993e23a9e9@h2g2000hsg.googlegroups.com>
<tt2dnUrzaMnojp_UnZ2dnUVZ_uWdnZ2d@supernews.com> <86256efd-9b07-412c-ac39-c886d2b42ec6@m74g2000hsh.googlegroups.com>
NNTP-Posting-Host: 222.152.3.228
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1224970998 19143 127.0.0.1 (25 Oct 2008 21:43:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 25 Oct 2008 21:43:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q30g2000prq.googlegroups.com; posting-host=222.152.3.228;
posting-account=Kz1rYQoAAAB0vk9lPnIWtdJL3Ji1TdC6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3429
rec.radio.amateur.antenna:21498 sci.electronics.design:132243
rec.radio.amateur.equipment:3137

Hello,

There should be a reciprocal relationship between the modules regardless of height, antennas etc. as long as TX power and RX sensitivity of the modules are the same (which they appear to be).

The modules are unlikely to have very good input filters at 868MHz, so any adjacent channel interference (GSM etc.) is likely to cause the out of balance behaviour.

Try heading in a different direction outside, or go somewhere else with your experiment.

For your real world application, are you likely to have any site close to adjacent channel transmitters (cell or broadcast) ? If so, think about a decant front end filters. This could be costly, but might save you...

Regards,

Mark

On Oct 25, 9:25=A0am, jimmi...@gmail.com wrote:
> On Oct 24, 2:26=A0pm, "Anthony Fremont" <nob...@noplace.net> wrote:
>
>
>
>
>
> > Mark wrote:
> > > On Oct 24, 2:00 pm, "Paul Hovnanian P.E." <p...@hovnanian.com> wrote:

```
> > > wow so many of these replies are wrong..
>
> > This is normal when antenna "theory" comes up.
>
> > > in almost all cases, =A0RF path losses are RECIPROCAL.
>
> > I agree, including the antenna gains (meaning that the antennas at each=
 end
> > don't have to match).
>
> > > (even a 1/2 silvered mirror is reciprocal to light)
>
> > Well that guy is usually on a differet page.
>
> > > As some have said, the cause of your issue is probably interference t=
o
> > > the outside receiver.
>
> > That's what I think is the most likely cause. =A0The guy outside probab=
ly has
> > his Nextel phone with him. =A0;-)
>
> > > Or maybe something about the indoor setup is causing the indoor Tx to
> > > operate at lower power.
>
> > I suppose that's possible too. =A0The OP should make sure the power sup=
plies
> > are equivalent (meaning that the output power would suffer more than th=
e
> > receiver gain with a drooping supply). =A0So check the indoor supply.
>
> > > It is very unusual for RF path loss to be non-reciprocal.- Hide quote=
d text -
>
> > - Show quoted text -
>
> It is assumed that the path to and from the office should be inferior
> to the line of sight path out on the street. This may or may not be
> true. The building may actually be offering gain in certain
> directions. I would start by seeing if the same condition existed at
> many more locations. If it does then other ideas need to be examined,
> I would start by examining the RF environment outside the building.
>
> Jimmie- Hide quoted text -
>
> - Show quoted text -



From 4841753876592744501
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews6.bellsouth.net.POSTED!2eb35c21!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
In-Reply-To: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 19
Message-ID: <8zMMk.55399$vX2.36923@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcbombofmjgalofggocbfjcbmomclaoomcmmeo
gjfikdoldoabmpolbaoecancgepjpmkamohehnohkmchjeiipgpkgkkgbdlmbdbambfmbldjdhbbpn
NNTP-Posting-Date: Sat, 25 Oct 2008 17:53:08 EDT
Organization: BellSouth Internet Group
Date: Sat, 25 Oct 2008 17:54:59 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:979

raypsi wrote:
> Hey all:
>
> I tore down a transformer I got from ebay it was a Zenith TV power
> transformer from days gone by. Re wound it with 17AWG wire on the
> secondary and primary. It powers up my 4-1000A filament nicely with
> 7.25VAC from 120VAC mains. I used a penta-filar winding on the
> secondary. Shimmed the bobbin in the  core window  with some 1/8 thick
> virgin teflon. Epoxied the windings to the bobbin. This was a 240VA
> transformer and now is a 83watt buzzer / 157watt filament transformer.
>
> So what is the cheapest I can gits away with sealing these laminations
> from buzzing, I used up all my epoxy sealing the windings.
>
> 73
>
> n8zu
I've sealed rewound filter chokes by dipping them in a bucket of
polyurethane varnish.


From -6852560217782597990
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 25 Oct 2008 18:21:14 -0500
```

From: "W3CQH" <hsgorden@comcast.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.radio.amateur.equipment
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
Subject: Re: 868MHz Propagation problem
Date: Sat, 25 Oct 2008 19:21:12 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <qfqdnZYsC6J3NJ7UnZ2dnUVZ_g2dnZ2d@comcast.com>
Lines: 60
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 76.100.218.8
X-Trace: sv3-
ZKjIJIjpNulbw9KzS7ELmBKZyR3wDbV2gmFymkVDPag8t6w3AuySH7soAn+bZolKZ9BPlTCsgygpqoY!
lHZbiml2LDOmC/2Wh1JVv67dsIDY4mDyg/dJd50oHKG6nEGMj2NqZGcRleekEKZP8yH4vDJCipLL!
Evw7DANOxqk4J+H6KfZ6wbTcrq0E
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3431
rec.radio.amateur.antenna:21499 sci.electronics.design:132255
rec.radio.amateur.equipment:3138

"dgleeson422111" <dgleeson3@eircom.net> wrote in message
news:159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com...
Hello All

We have a propagation issue that is confusing us. We have two 868MHz modules on test, each capable of 500mW transmission.

We are testing to find the range of communication. We are testing them as follows. One remains in our office while the other is taken to the street outside. we are communicating charecter strings such as "Im at the lamp post number 1" etc. There is somebody at each end sending text strings in a continuous conversation. There is no protocol, error checking or error recovery.

What we have repetadly found is that the radio in the office can receive long after the radio in the street has stopped receiving. (The person with the radio in the street is moving away from the office.)

The radios are the same and the power supplies to the radios are the same. Indeed switching the radios gives the same effect.

The propagation paths between the two radios are the same in terms of distance. However the radio signal transmitted from the office travels through walls first before then traveling through open space. Its the opposite for the radio in the street, firstly traveling through space and then through the walls in the office.

We did think we had identified an interfeering source in one direction (when moving away from the office) so we started moving in the opposite direction. We found exactly the same effect.

Are we getting interfeerance from GSM, ISM or Paging?

As far as GSM bands go in Europe 890�915 MHz OR 1710�1785 MHz So these shouldnt be our problem.

ISM is where we intend to operate and the greatest band occupancy should be 10%. So we should get communication even though we would get some interfeerance.

Paging - well this has very much gone out of fashion in Europe. But even if it was the cause then wouldnt it be intermittant communication. We have a constant problem.

Can anyone shed light on this phenomonon? Is it an issue of wireless propagation that Im not familiar with or is it Interfeerance?

Best regards, and thanks for any input.

Denis
____
http://www.CentronSolutions.com

its interesting that a commercial company would bring a problem such as this to a bunch of amateur radio operators... true some of the amateurs may be professional engineers, but the remainder are not! I guess that in today's market place we try to gain information on the dirt and cheap way.

From 5843853190946099434
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!
tmp-post01.iad!news.highwinds-media.com!not-for-mail
Date: Sat, 25 Oct 2008 20:14:27 -0400
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra

dio.amateur.equipment
Subject: Re: 868MHz Propagation problem
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
In-Reply-To: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
Content-Type: text/plain; charset=windows-1252; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 66
Message-ID: <4903b656$0$4918$9a6e19ea@unlimited.newshosting.com>
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
NNTP-Posting-Host: 70.121.205.178
X-Complaints-To: abuse@newshosting.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:3432
rec.radio.amateur.antenna:21500 sci.electronics.design:132263
rec.radio.amateur.equipment:3139

dgleeson422111 wrote:
> Hello All
>
> We have a propagation issue that is confusing us. We have two 868MHz
> modules on test, each capable of 500mW transmission.
>
> We are testing to find the range of communication. We are testing them
> as follows. One remains in our office while the other is taken to the
> street outside. we are communicating charecter strings such as "Im at
> the lamp post number 1" etc. There is somebody at each end sending
> text strings in a continuous conversation. There is no protocol, error
> checking or error recovery.
>
> What we have repetadly found is that the radio in the office can
> receive long after the radio in the street has stopped receiving. (The
> person with the radio in the street is moving away from the office.)
>
> The radios are the same and the power supplies to the radios are the
> same. Indeed switching the radios gives the same effect.
>
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> distance. However the radio signal transmitted from the office travels
> through walls first before then traveling through open space. Its the
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> and then through the walls in the office.
>
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> (when moving away from the office) so we started moving in the
> opposite direction. We found exactly the same effect.
>
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>
> As far as GSM bands go in Europe 890�915 MHz OR 1710�1785 MHz So these
> shouldnt be our problem.
>
> ISM is where we intend to operate and the greatest band occupancy
> should be 10%. So we should get communication even though we would get

> some interfeerance.
>
> Paging - well this has very much gone out of fashion in Europe. But
> even if it was the cause then wouldnt it be intermittant
> communication. We have a constant problem.
>
> Can anyone shed light on this phenomonon? Is it an issue of wireless
> propagation that Im not familiar with or is it Interfeerance?
>
> Best regards, and thanks for any input.
>
> Denis
> _____________________
> http://www.CentronSolutions.com

What is the modulation type and data rate? Could be a delay spread
issue. Maybe the outside unit is receiving a reflected signal from the
surface of a nearby structure and is experiencing inter-symbol
interference that by chance the base unit is shielded from. This would
occur only if a high symbol rate was being used.

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From -8176392540454918634
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!flpi089.ffdc.sbc.com!
prodigy.net!flpi088.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi069.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
Subject: Re: 868MHz Propagation problem
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
<qfqdnZYsC6J3NJ7UnZ2dnUVZ_g2dnZ2d@comcast.com>
In-Reply-To: <qfqdnZYsC6J3NJ7UnZ2dnUVZ_g2dnZ2d@comcast.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 28

Message-ID: <hKOMk.4404$as4.2658@nlpi069.nbdc.sbc.com>
NNTP-Posting-Host: 75.26.161.180
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi069.nbdc.sbc.com 1224980493 ST000 75.26.161.180 (Sat, 25 Oct 2008 20:21:33 EDT)
NNTP-Posting-Date: Sat, 25 Oct 2008 20:21:33 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
[[OGRYSEGZWUSWHXNCOF_W\@PJ_^PBQLGPQRZ_MHEQR@ETUCCNSKQFCY@TXDX_WHSVB]ZEJLSNY\^J[CUVSA_QLFC^RQHUPH[P[NRWCCMLSNPOD_ESALHUK@TDFUZHBLJ\XGKL^NXA\EVHSP[D_C^B_^JCX^W]CHBAX]POG@SSAZQ\LE[DCNMUPG_VSC@VJM
Date: Sat, 25 Oct 2008 17:21:28 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:3433 rec.radio.amateur.antenna:21501 sci.electronics.design:132266 rec.radio.amateur.equipment:3140

W3CQH wrote:

[...]

> its interesting that a commercial company would bring a problem such as this to a bunch of amateur radio operators... true some of the amateurs may be professional engineers, but the remainder are not! I guess that in today's market place we try to gain information on the dirt and cheap way.
>

Nah, that's ok. Every one of us occasionally runs into an unusual situation. Then one can either stew on it for days without getting to the ground of it, or ask. IMHO it is a sign of maturity if somebody has the guts to say "Hey, guys, this problem here really has us puzzled".

That is especially true for EMI cases and this sure looks like one. Sometimes a brief hint by someone who has been in the trenches for decades can get things going again. And most older ham radio operators had that exposure, fixing the neighbor's electronics because their manufacturers messed up.

--
Regards, Joerg

http://www.analogconsultants.com/

"gmail" domain blocked because of excessive spam.
Use another domain or send PM.

From -2217869505016574702
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!news2.arglkargh.de!news.karotte.org!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.radio.amateur.equipment
Subject: Re: 868MHz Propagation problem
Followup-To: rec.radio.amateur.homebrew
Date: Sun, 26 Oct 2008 01:10:26 +0000
Organization: Bias Comms
Lines: 14
Message-ID: <6mhuceFgoaqdU1@mid.individual.net>
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com> <49020D38.B232C623@hovnanian.com> <89e3cfad-c877-4be6-8eca-53993e23a9e9@h2g2000hsg.googlegroups.com> <m0MMk.5597$3w.704@newsfe19.iad>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net EwQcB3IHi2XCzf6IUxrbJQcWwvEi+u1qye/3f1+koyxC6PmfCk
Cancel-Lock: sha1:tm6nVpPJzM6y8llfOZe1C89arx4=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3434 rec.radio.amateur.antenna:21502 sci.electronics.design:132275 rec.radio.amateur.equipment:3142

Tio Pedro wrote:

> I agree. But, one thing that should be proven is that both modules
> are working as intended. The one being used for the remote
> application *could* be defective. Swap modules and see if the
> receiving problem also switches locations, or remains the
> same.

The OP said that he did that, and the problem remained. It's certainly a desensing problem due to local interference at one end. That's the only possible cause.

From 1361570168160747119
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news2!news-out.octanews.net!indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz

Date: Sat, 25 Oct 2008 23:03:24 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.10.26.06.03.24.886340@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 6
Organization: Octanews
NNTP-Posting-Date: 26 Oct 2008 01:03:35 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:984

A good trick for the lams is clear nail polish as you reassemble them.
Just a quick wipe, as it'll spread as you squeeze in the last few lams
under a "Quick-Grip" clamp.

Cheers!

From 4051257636008380961
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
newsfeed.straub-nv.de!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Date: Sun, 26 Oct 2008 07:53:19 +0100 (CET)
Organization: Mostly In Piles
Lines: 43
Message-ID: <Xns9B4313398D34B2MDWN@194.177.96.78>
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
<8zMMk.55399$vX2.36923@bignews6.bellsouth.net>
NNTP-Posting-Host: fknz+CL4/Py82Rmt80gNAA.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Sun, 26 Oct 2008 06:53:19 +0000 (UTC)
User-Agent: Xnews/5.04.25
Xref: g2news1.google.com rec.radio.amateur.homebrew:985

I'll second that.

Varnish is the best thing. Warm the varnish and the
transformer first before you dunk it. That will reduce
the viscosity and improve penetration. A little thinner
in the pot may help too. Vacuum/pressure impregnation is
better than dipping... but dipping can work well on a buzz.

There is even special dipping resin to reduce noise that

leaves the part looking like it's been dipped in a candy
coating. It's a soft, rubbery, epoxy coating.

Oh, and the teflon isn't so great as a shim. You might try
nomex paper, G-10 PC board scraps, fish or kraft paper even
typing paper, calendered cardboard (like shoe box cardbord)
or wood. Teflon will withstand the heat but it tends to
cold flow which makes it dimensionally unstable. The amount
of mechanical force between the core halves can be surprising.
Though in your transformer teflon may be be OK. In a choke
it can be a source of bewilderment as the gap decreases. Yes,
I've had this happen.

Any material that will soften when it's hot, like perspex/plexiglas
isn't a good choice either. I found this in an inductor for a
10KW boost converter that an otherwise reliable supplier built
for me.

For varnish, I like Dolphs (Von-Roll.) Failing that I use
marine spar varnish. Some varnishes are corrosive to copper
and over time will cause windings of fine guage to open if
any copper is exposed.

ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in
news:8zMMk.55399$vX2.36923@bignews6.bellsouth.net:

> I've sealed rewound filter chokes by dipping them in a bucket of
> polyurethane varnish.

```
From 8313090400283741803
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!
tmp-post01.iad!news.highwinds-media.com!news.cv.net!not-for-mail
From: ml <m@di.net>
Newsgroups: 
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
Subject: Re: 868MHz Propagation problem
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
<4903b656$0$4918$9a6e19ea@unlimited.newshosting.com>
User-Agent: MT-NewsWatcher/3.5.3b2 (Intel Mac OS X)
Date: Sun, 26 Oct 2008 06:19:38 -0400
Message-ID: <m-59381A.06193826102008@news.optonline.net>
Lines: 64
```

Organization: Optimum Online
NNTP-Posting-Host: 69.119.128.117
X-Complaints-To: abuse@cv.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:986
rec.radio.amateur.antenna:4959 sci.electronics.design:38108
rec.radio.amateur.equipment:783

In article <4903b656$0$4918$9a6e19ea@unlimited.newshosting.com>,
 RFI-EMI-GUY <Rhyolite@NETTALLY.COM> wrote:

> dgleeson422111 wrote:
> > Hello All
> >
> > We have a propagation issue that is confusing us. We have two 868MHz
> > modules on test, each capable of 500mW transmission.
> >
> > We are testing to find the range of communication. We are testing them
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> > text strings in a continuous conversation. There is no protocol, error
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> >
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> >
> > The propagation paths between the two radios are the same in terms of
> > distance. However the radio signal transmitted from the office travels
> > through walls first before then traveling through open space. Its the
> > opposite for the radio in the street, firstly traveling through space
> > and then through the walls in the office.
> >
> > We did think we had identified an interfeering source in one direction
> > (when moving away from the office) so we started moving in the
> > opposite direction. We found exactly the same effect.
> >
> > Are we getting interfeerance from GSM, ISM or Paging?
> >
> > As far as GSM bands go in Europe 890�915 MHz OR 1710�1785 MHz So these
> > shouldnt be our problem.
> >
> > ISM is where we intend to operate and the greatest band occupancy
> > should be 10%. So we should get communication even though we would get
> > some interfeerance.
> >
> > Paging - well this has very much gone out of fashion in Europe. But
> > even if it was the cause then wouldnt it be intermittant
> > communication. We have a constant problem.
> >

> > Can anyone shed light on this phenomonon? Is it an issue of wireless
> > propagation that Im not familiar with or is it Interfeerance?
> >
> > Best regards, and thanks for any input.
> >
> > Denis
> > ______________________
> > http://www.CentronSolutions.com
>
> What is the modulation type and data rate? Could be a delay spread
> issue. Maybe the outside unit is receiving a reflected signal from the
> surface of a nearby structure and is experiencing inter-symbol
> interference that by chance the base unit is shielded from. This would
> occur only if a high symbol rate was being used.

what type of amateur radio application is this for? Or is it a commercial application posted in this amateur radio group? just wondering

From 6360924471975041327
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 26 Oct 2008 06:22:20 -0500
Date: Sun, 26 Oct 2008 11:22:19 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 868MHz Propagation problem
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
<4903b656$0$4918$9a6e19ea@unlimited.newshosting.com>
<m-59381A.06193826102008@news.optonline.net>
In-Reply-To: <m-59381A.06193826102008@news.optonline.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <POudnQdiAY9xz5nUnZ2dnUVZ_rjinZ2d@bright.net>
Lines: 16
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace:
sv3-4zLaR56bNB31HsxuRRSEosDy0c3GlXAmCinDzA8h8wMagY3AVVyihvYzo10EkVZOyagjv88qQUVwWg
W!mn/WrzjQxkN8MDjpkp9AMoqneID6IrziQNRoa2aqyXm07jBPXWpMlb3or8FKroAlmEF1gthFrK3w!
bOzi0lYHXg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly

X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3438

>
>
> what type of amateur radio application is this for? Or is it a
> commercial application posted in this amateur radio group? just
> wondering

What amateur band covers 868 MHz? Did we get a new one? I'll have to
order another transverter, I guess ;)

Well, to get this post be on topic, does anyone know of a good source
for some SPDT coaxial relays good at 902 MHz and good for 350 Watts at
902?

Scott
N0EDV

From 6847227767202224857
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!69.16.185.16.MISMATCH!
npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!post02.iad.highwinds-media.com!newsfe07.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
<8zMMk.55399$vX2.36923@bignews6.bellsouth.net>
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <WM_Mk.17148$UD6.12654@newsfe07.iad>
NNTP-Posting-Host: 72.192.52.79
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe07.iad 1225029814 72.192.52.79 (Sun, 26 Oct 2008 14:03:34 UTC)
NNTP-Posting-Date: Sun, 26 Oct 2008 14:03:34 UTC
Organization: Cox
Date: Sun, 26 Oct 2008 10:03:15 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:988

"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:8zMMk.55399$vX2.36923@bignews6.bellsouth.net...
> raypsi wrote:

>>
>> n8zu
> I've sealed rewound filter chokes by dipping them in a bucket of
> polyurethane varnish.

This would work even better if you could pull a slight vacuum
on the bucket to get the air bubbles out. I believe that's how
the manufacturer's did it. There was a thread on this over on
AMFONE.NET a few month's back.

pete k1zjh

From -8599367297098220645
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Date: Sun, 26 Oct 2008 15:40:08 +0100 (CET)
Organization: Mostly In Piles
Lines: 18
Message-ID: <Xns9B435831173712MDWN@194.177.96.78>
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
NNTP-Posting-Host: dNTJSLFlJr4KNxHrfbdvoQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Sun, 26 Oct 2008 14:40:08 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:989

Uh! Sorry Ray, it was near 2AM and I misread this. Of course
there's no gap in the core it's a linear AC transformer. No
DC in the windings and so no gap.

Usually I'd do everything I can to reduce any gap, inclduing
interleaving the laminations, to reduce the magnetizing current.

I just wasn't thinking, that happens sometimes.

raypsi <RBorowiak@gmail.com> wrote in news:ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com:

>Shimmed the bobbin in the core window with some 1/8 thick
> virgin teflon. Epoxied the windings to the bobbin. This was a 240VA
> transformer and now is a 83watt buzzer / 157watt filament transformer.

```
From 3875920565643882364
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe08.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
<8zMMk.55399$vX2.36923@bignews6.bellsouth.net>
<WM_Mk.17148$UD6.12654@newsfe07.iad>
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <Fj3Nk.48512$SH5.42628@newsfe08.iad>
NNTP-Posting-Host: 72.192.52.79
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe08.iad 1225048421 72.192.52.79 (Sun, 26 Oct 2008 19:13:41 UTC)
NNTP-Posting-Date: Sun, 26 Oct 2008 19:13:41 UTC
Organization: Cox
Date: Sun, 26 Oct 2008 15:13:23 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:3441
```

As was suggested by Grumpy... missed it first time.

Pedro

"Tio Pedro" <radioconnection@cox.net> wrote in message
news:WM_Mk.17148$UD6.12654@newsfe07.iad...
>
> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
> news:8zMMk.55399$vX2.36923@bignews6.bellsouth.net...
>> raypsi wrote:
> >>
>>> n8zu
>> I've sealed rewound filter chokes by dipping them in a bucket of
>> polyurethane varnish.
>
> This would work even better if you could pull a slight vacuum
> on the bucket to get the air bubbles out. I believe that's how
> the manufacturer's did it. There was a thread on this over on
> AMFONE.NET a few month's back.
>
> pete k1zjh
>

From -2058035820215709355
X-Google-Thread: fc2a5,b4801dd4b5a567c6,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!cyclone02.ams!news.highwinds-media.com!pe1.news.blueyonder.co.uk!blueyonder!text.news.virginmedia.com!53ab2750!not-for-mail
From: GaryM <gary@alma.demon.co.uk>
Reply-To: gary@alma.demon.co.uk
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Looking for Hallicrafters S-118 schematic
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 29
Message-ID: <cq5Nk.78054$E41.48258@text.news.virginmedia.com>
Date: Sun, 26 Oct 2008 21:37:12 GMT
NNTP-Posting-Host: 77.100.73.154
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: text.news.virginmedia.com 1225057032 77.100.73.154 (Sun, 26 Oct 2008 21:37:12 GMT)
NNTP-Posting-Date: Sun, 26 Oct 2008 21:37:12 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:991

I recently posted a similar message to the boatanchors newagroup, but I have had no reply, so I hope that perhaps a different readership of this newsgroup might be able to help.

At a recent radio rally I picked up a Hallicrafters S-118 receiver. It's a bit tatty, but I was interested since I have never owned a valve (tube) receiver. I've located a scan of the service manual on the BAMA website, but the schematic was unreadable. I've found a number of US websites which sell the manual, but the cost plus postage is about the same as the rx cost! I will go this route if nothing turns up.

If anyone can help with the schematic or information on the power supply I would be very grateful. I have no idea what voltages the power supply is supposed to generate, but one idea is to replace the US transformer with a UK equivalent. The power supply appears to have a semiconductor doubler on the output side. I am quite happy to remove this and use the correct secondary voltage from a UK transformer. I may be possibly offending the purists, but I am happy to replace as much of the PSU as necessary just to get the rx going again. I do have some high voltage transformers in my junkbox despite never having constructed any tube equipment.

During the various searches it appears that the S-118 has a mk1 and mk2 version. If anyone could explain the difference (so that I can order the right manual) I would be grateful

73

--Gary (M1GRY)

From 5486906996587926997
X-Google-Thread: fc2a5,b4801dd4b5a567c6
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 26 Oct 2008 17:50:56 -0500
Date: Sun, 26 Oct 2008 18:50:54 -0400
From: highlandham <rfburns@nospam.com>
User-Agent: Icedove 1.5.0.9 (X11/20061220)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for Hallicrafters S-118 schematic
References: <cq5Nk.78054$E41.48258@text.news.virginmedia.com>
In-Reply-To: <cq5Nk.78054$E41.48258@text.news.virginmedia.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <haCdnfL9ifPNaZnUnZ2dneKdnZydnZ2d@pipex.net>
Lines: 63
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 85.210.100.110
X-Trace: sv3-
pEA53AbN3zApwZCzxOaWeh3NYbVngc48VBTNIeTEAlDlPbYicupvcQUCg0oQEojCXxJNfDdHeDurd4m!/
6DMqKxrGrXIkbD4rHHOlQgrC4UNYSyPxaKxMYe2FuwECWfdZyrljedVcrBzD+aOaP/I7IpkGrtg!
BinprSbGsgkHr9dpaiblvxUPmqI=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3443

GaryM wrote:
> I recently posted a similar message to the boatanchors newagroup, but I
> have had no reply, so I hope that perhaps a different readership of this
> newsgroup might be able to help.
>
> At a recent radio rally I picked up a Hallicrafters S-118 receiver. It's
> a bit tatty, but I was interested since I have never owned a valve
> (tube) receiver. I've located a scan of the service manual on the BAMA
> website, but the schematic was unreadable. I've found a number of US
> websites which sell the manual, but the cost plus postage is about the
> same as the rx cost! I will go this route if nothing turns up.
>

> If anyone can help with the schematic or information on the power supply
> I would be very grateful. I have no idea what voltages the power supply
> is supposed to generate, but one idea is to replace the US transformer
> with a UK equivalent. The power supply appears to have a semiconductor
> doubler on the output side. I am quite happy to remove this and use the
> correct secondary voltage from a UK transformer. I may be possibly
> offending the purists, but I am happy to replace as much of the PSU as
> necessary just to get the rx going again. I do have some high voltage
> transformers in my junkbox despite never having constructed any tube
> equipment.
>
> During the various searches it appears that the S-118 has a mk1 and mk2
> version. If anyone could explain the difference (so that I can order the
> right manual) I would be grateful

==
Suggest you keep the rx as is an feed it with 115-120 V ,either from a
variac or a sturdy 230/240 V transformer with a centre tap , using only
the primary winding as an auto-transformer (not using the secondary
windings) (Large) transformers can often be found at Junk sales or flea
markets . Another possibility is using 2 transformers ; one being
230/240 to 12 V or about and the second one 230/240 to 24V or about
By connecting the the secondaries you can get 115/120V.

Of course you have to ensure that the transformer(s) can handle more
than 100 W to be on the safe side . The Hallicrafters rx will highly
likely not consume more than 100 W

If the rx has not been used for considerable time ,the electrolytic
capacitors might have to be reformed . Do that (preferably) with a
variac or with a few transformers with say 12 -24 V secondaries,
starting with say 12 V connected to the rx power input ,after a while
increasing the voltage by series connection with another low voltage
secondary ,either from the same or a different transformer (ensure that
phasing is OK by checking output with voltmeter) .
To minimise power required while reforming the electrolytics you can
remove the valves(tubes) (but of course not the HV rectifier valve if
fitted

There is 1 potential snag using equipment designed for 60 Hz (USA) on a
50 Hz supply system . If the transformer of the rx is marginal capacity
wise , it could become rather warm when connected to a 50 Hz supply
system , because the higher frequency permits less transformer iron.

Note: During the valve(tube)equipment era ,aircraft required AC .
To minimise weight the transfomers used had to be as low in weight as
possible , that's why the onboard supply system operated at 400 Hz.

Good luck with your vintage RX

Frank GM0CSZ / KN6WH

```
From -6964655814748481097
X-Google-Thread: fc2a5,4294c42fc3b71526,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news2!
nlpi057.nbdc.sbc.com!prodigy.net!flpi088.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!nlpi061.nbdc.sbc.com.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: eBay: Henry Bird Linear & SWR panel
Lines: 1
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <EsqNk.6131$be.4403@nlpi061.nbdc.sbc.com>
NNTP-Posting-Host: 70.143.34.184
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi061.nbdc.sbc.com 1225143204 ST000 70.143.34.184 (Mon, 27 Oct 2008
17:33:24 EDT)
NNTP-Posting-Date: Mon, 27 Oct 2008 17:33:24 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
[[PAPDCAOXTMBP\Y]RHV_STDFZ\@@FXLM@TDOCQDJ@_@FNXACNVOPCWZBL[\YUWHANGYZEFNHFZPNLOBUN
SS^_LGEVWEY\PHO@YJSSWBBDT\PFD^ESBTXVCCMTD]JCJLE\_IJMFNRY]SWE[S[D_CNB__ZK^VGVCKHA[S
@COB^[@ZQSDFQ\BPMS@DZVUKQTJL
Date: Mon, 27 Oct 2008 16:33:23 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:993
```

http://search.ebay.com/_W0QQsassZwd5jfrQQfrppZ50QQfsopZ32QQfsooZ2QQrdZ0

```
From -4481866718048401362
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!flpi089.ffdc.sbc.com!prodigy.net!
flpi088.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!nlpi061.nbdc.sbc.com.POSTED!
c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Lines: 35
MIME-Version: 1.0
Content-Type: text/plain;
```

```
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <jCrNk.6137$be.3381@nlpi061.nbdc.sbc.com>
NNTP-Posting-Host: 70.143.34.184
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi061.nbdc.sbc.com 1225147919 ST000 70.143.34.184 (Mon, 27 Oct 2008
18:51:59 EDT)
NNTP-Posting-Date: Mon, 27 Oct 2008 18:51:59 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
[[PGW[[DYJWUCQLXEBCBNWX@RJ_XPDLMN@GZ_GYO^BSZUSAANVUEAE[YETZPIWWI[FCIZA^NBFXZ_D[BFN
TCNVPDTNTKHWXKB@X^B_OCJLPZ@ET_O[G\XSG@E\G[ZKVLBL^CJINM@I_KVIOR\T_M_AW_M[_BWU_HFA_]
@A_A^SGFAUDE_DFTMQPFWVW[QPJN
Date: Mon, 27 Oct 2008 17:51:59 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:994
```

If you have bolts thru the lams have you torqued them to the point of twisting them off? If you haven't you might want to loosen then and add some more varnish to the lams while they're loose and then torque them. Another possibility: Many of the transformers in microwave ovens have a bead of weld across all the laminations and I've seen this on rectifiers used in Telco applications. Keeps them quiet and I and has some negatives like letting line spikes thru but on a filament that is meaningless. Lam eddy currents area dead issue as I've heard that the old Bell Labs had accepted this practice.

I had a 30S-1 with minor buzz but when I added 100 volts to the screen the hum was about to drive me nuts but torquing to lams solved the problem, I twisted off a couple of bolts.

--
 73
Hank WD5JFR
"raypsi" <RBorowiak@gmail.com> wrote in message
news:ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com...

> Hey all:
>
> I tore down a transformer I got from ebay it was a Zenith TV power
> transformer from days gone by. Re wound it with 17AWG wire on the
> secondary and primary. It powers up my 4-1000A filament nicely with
> 7.25VAC from 120VAC mains. I used a penta-filar winding on the
> secondary. Shimmed the bobbin in the core window with some 1/8 thick
> virgin teflon. Epoxied the windings to the bobbin. This was a 240VA
> transformer and now is a 83watt buzzer / 157watt filament transformer.
>
> So what is the cheapest I can gits away with sealing these laminations
> from buzzing, I used up all my epoxy sealing the windings.
>

> 73
>
> n8zu

From -8655320421423982719
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!news.mixmin.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Date: Tue, 28 Oct 2008 00:52:28 +0100 (CET)
Organization: Mostly In Piles
Lines: 42
Message-ID: <Xns9B44B5D59633D2MDWN@194.177.96.78>
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com> <jCrNk.6137$be.3381@nlpi061.nbdc.sbc.com>
NNTP-Posting-Host: Fe77s3IXOIw7MYD6rPND4g.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Mon, 27 Oct 2008 23:52:28 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:995

Hmmm!

Bolts through the laminations should have insulators (usually fiber board washers) under the heads. Just one end will do, there's no need for them under the nuts. But shoulder washers are best so the bolts don't short any laminations together deeper into the core.

If uninsulated the bolt can form a poorly coupled shorted turn and that in itself can cause noise, heating of the core and the hardware as well as spray flux around where you wouldn't have expected any. How bad it is depends on the locations of the holes in the core.

A bead of weld across the ends of the laminations won't add to the eddy currents significantly. Steel isn't a great conductor. The weld's cross section is small and it's very poorly coupled to the primary.

Why would a weld across the laminations let line spikes though?

"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in
news:jCrNk.6137$be.3381@nlpi061.nbdc.sbc.com:

> If you have bolts thru the lams have you torqued them to the point of
> twisting them off? If you haven't you might want to loosen then and add
> some more varnish to the lams while they're loose and then torque them.
> Another possibility: Many of the transformers in microwave ovens have a
> bead of weld across all the laminations and I've seen this on rectifiers
> used in Telco applications. Keeps them quiet and I and has some
> negatives like letting line spikes thru but on a filament that is
> meaningless. Lam eddy currents area dead issue as I've heard that the
> old Bell Labs had accepted this practice.
> I had a 30S-1 with minor buzz but when I added 100 volts to the screen
> the hum was about to drive me nuts but torquing to lams solved the
> problem, I twisted off a couple of bolts.
>

From 4867164803464778181
X-Google-Thread: fc2a5,b4801dd4b5a567c6
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news4.google.com!news.germany.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!pe2.news.blueyonder.co.uk!
blueyonder!pe1.news.blueyonder.co.uk!blueyonder!text.news.virginmedia.com!
53ab2750!not-for-mail
From: GaryM <gary@alma.demon.co.uk>
Reply-To: gary@alma.demon.co.uk
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for Hallicrafters S-118 schematic
References: <cq5Nk.78054$E41.48258@text.news.virginmedia.com>
<haCdnfL9ifPNaZnUnZ2dneKdnZydnZ2d@pipex.net>
In-Reply-To: <haCdnfL9ifPNaZnUnZ2dneKdnZydnZ2d@pipex.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 29
Message-ID: <SUsNk.78573$E41.6669@text.news.virginmedia.com>
Date: Tue, 28 Oct 2008 00:20:02 GMT
NNTP-Posting-Host: 77.100.73.154
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: text.news.virginmedia.com 1225153202 77.100.73.154 (Tue, 28 Oct 2008
00:20:02 GMT)
NNTP-Posting-Date: Tue, 28 Oct 2008 00:20:02 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:996

Hi Frank,

thankyou for your reply. I already have a Maplin 240->120V autotransformer which should do the job nicely. The radio has been somewhat hacked around with and did come with a heavy and ugly UK transformer wired as an auto-transformer. It is now removed and will be used in a future valve based project.

From the poor schematic which I have the secondary goes into a semiconductor diode voltage doubler. There is then some kind of resistive chain which I assume generates the voltages for the screens of the valves. I really need a clear set of schematics to see what values should be found.

The valve heater voltage part of the schematic is a mystery. The valves are 4 x 6.3V and 1 x 12.6V, but the schematic suggests a different line up of 2 x 6.3V and 3 x 12.6V. The valve ids are not readable on the schematic. Perhaps the schematic was from a mk1, although it is supposed to be from a mk2.

I have now removed all the components which make up the voltage doubler and the main triple capacitor is now isolated. I will try to reform it (from a variable DC supply) and check that it is still working. The resistors in the chain are clearly not originals. They may have been changed when the auto-transformer was added.

73

--Gary (M1GRY)

```
From 7450001190575203639
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!flpi089.ffdc.sbc.com!prodigy.net!
flpi088.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!nlpi061.nbdc.sbc.com.POSTED!
c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
<jCrNk.6137$be.3381@nlpi061.nbdc.sbc.com> <Xns9B44B5D59633D2MDWN@194.177.96.78>
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Lines: 65
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <N3uNk.6144$be.293@nlpi061.nbdc.sbc.com>
NNTP-Posting-Host: 70.143.34.184
X-Complaints-To: abuse@prodigy.net
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X-Trace: nlpi061.nbdc.sbc.com 1225157997 ST000 70.143.34.184 (Mon, 27 Oct 2008 21:39:57 EDT)
NNTP-Posting-Date: Mon, 27 Oct 2008 21:39:57 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
OP[MBXSEFRUARSH]]RKB_UDAZZ\DPCPDLXUNNH\KMAVNDQUBLNTC@AWZWDXZXQ[K\FFSKCVM@F_N_DOBWV
WG__LG@VVOIPLIGX\
\BU_B@\P\PFX\B[APHTWAHDCKJF^NHD[YJAZMCY_CWG[SX\Y]^KC\HSZRWSWKGAY_PC[BQ[BXAS\F\
\@DMTLFZFUE@\VL
Date: Mon, 27 Oct 2008 20:39:57 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:997

Grumpy
Years ago in 93 or so on a Telco fiber system by Alcatel we took severe hits when the air conditioner came on and it was traced to the station rectifier. The Gould rectifiers had a weld bead and when we replaced them another make which I can't recall that didn't have weld beads the problem went away. Its quite strange since the rectifiers floated big batteries but a vco in system was sensitive to the spike. After doing some research I found an explanation that I can't recall because I was too busy with other problems and mine had gone away. Alcatel spent several hundred thousand trying to find the problem and I stumbled on to it by shear luck.

73
Hank WD5JFR
"Grumpy The Mule" <s_foonly@foo.bar> wrote in message
news:Xns9B44B5D59633D2MDWN@194.177.96.78...
> Hmmm!
>
> Bolts through the laminations should have insulators
> (usually fiber board washers) under the heads. Just
> one end will do, there's no need for them under the
> nuts. But shoulder washers are best so the bolts don't
> short any laminations together deeper into the core.
>
> If uninsulated the bolt can form a poorly coupled shorted
> turn and that in itself can cause noise, heating of the
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> you wouldn't have expected any. How bad it is depends
> on the locations of the holes in the core.
>
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> to the eddy currents significantly. Steel isn't a great
> conductor. The weld's cross section is small and it's very
> poorly coupled to the primary.
>
> Why would a weld across the laminations let line spikes
> though?
>
>
>
>

```
> "Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in
> news:jCrNk.6137$be.3381@nlpi061.nbdc.sbc.com:
>
>> If you have bolts thru the lams have you torqued them to the point of
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>> Another possibility:  Many of the transformers in microwave ovens
>> have a
>> bead of weld across all the laminations and I've seen this on
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>> used in Telco applications.  Keeps them quiet and I and has some
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>> old Bell Labs had accepted this practice.
>> I had a 30S-1 with minor buzz but when I added 100 volts to the
>> screen
>> the hum was about to drive me nuts but torquing to lams solved the
>> problem, I twisted off a couple of bolts.
>>
>



From 8916562371136548244
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2!news.glorb.com!
news.cse.ohio-state.edu!pitt.edu!egsner!news.cirr.com!sdf.lonestar.org!sdog2008
From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Date: Tue, 28 Oct 2008 03:29:46 +0000
Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 53
Message-ID: <Pine.NEB.4.64.0810280318140.9467@sdf.lonestar.org>
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
NNTP-Posting-Host: sdf.lonestar.org
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: chessie.cirr.com 1225164596 7777 192.94.73.1 (28 Oct 2008 03:29:56 GMT)
X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Tue, 28 Oct 2008 03:29:56 +0000 (UTC)
In-Reply-To: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:998


On Sat, 25 Oct 2008, raypsi wrote:

> Date: Sat, 25 Oct 2008 10:25:23 -0700 (PDT)
```

> From: raypsi <RBorowiak@gmail.com>
> Newsgroups: rec.radio.amateur.homebrew
> Subject: I built a 7.5VAC 21Amp transformer now it has lots of buzz
>
> Hey all:
>
> I tore down a transformer I got from ebay it was a Zenith TV power transformer from days gone by. Re wound it with 17AWG wire on the secondary and primary. It powers up my 4-1000A filament nicely with 7.25VAC from 120VAC mains. I used a penta-filar winding on the secondary. Shimmed the bobbin in the core window with some 1/8 thick virgin teflon. Epoxied the windings to the bobbin. This was a 240VA transformer and now is a 83watt buzzer / 157watt filament transformer.
>
> So what is the cheapest I can gits away with sealing these laminations from buzzing, I used up all my epoxy sealing the windings.
>
> 73
>
> n8zu
>

This might be a little "far-out" but, besides just buying more epoxy and just doing it right, maybe you could find a can or metal box, put the transformer into the box, and fill the box up with enough sand that you have 1-2 inches all around the transformer, and that might muffle the buzz. You'll need to worry about heat dissipation through that sand which will act like an insulator, but if you are on the air only a couple of hours per day, it should not get dangerously hot (however, many of the old hermetically sealed transformers were burried in a waxy-tar that was quite hard at room temperature).

Your other option is to figure out some clamping arrangement so that the laminations are held close and tight.

Re-winding transformers is fun, but next time you want some off-beat voltage, maybe scrounge up higher voltages (eg. car battery chargers) and use either a variac or power resistor (with sufficient heat dissipation) to bring the voltage down to where you want it and save yourself the headaches and earaches. Or, don't take the laminations apart but feed the wire (stranded) through the holes that are left.

Or, other kludge-cheapskate approaches.

Good luck.

From 1162522055374855209
X-Google-Thread: fc2a5,40b331647bfbb4ad

```
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!postnews.google.com!x16g2000prn.googlegroups.com!not-for-
mail
From: Radio_Dick <rspost@mail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
Subject: Re: 868MHz Propagation problem
Date: Tue, 28 Oct 2008 11:20:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 69
Message-ID: <3103a4b3-9e42-445f-9c4e-0f26997fd19c@x16g2000prn.googlegroups.com>
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
NNTP-Posting-Host: 68.109.123.9
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1225218022 18627 127.0.0.1 (28 Oct 2008 18:20:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 28 Oct 2008 18:20:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x16g2000prn.googlegroups.com; posting-host=68.109.123.9;
     posting-account=EdN3OgkAAACaM4tYIJ9xLgHr_4uTRXVd
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:999
rec.radio.amateur.antenna:4970 sci.electronics.design:38570
rec.radio.amateur.equipment:792
```

On Oct 24, 5:14=A0am, dgleeson422111 <dglees...@eircom.net> wrote:

> Hello All
>
> We have a propagation issue that is confusing us. We have two 868MHz
> modules on test, each capable of 500mW transmission.
>
> We are testing to find the range of communication. We are testing them
> as follows. One remains in our office while the other is taken to the
> street outside. we are communicating charecter strings such as "Im at
> the lamp post number 1" etc. There is somebody at each end sending
> text strings in a continuous conversation. There is no protocol, error
> checking or error recovery.
>
> What we have repetadly found is that the radio in the office can
> receive long after the radio in the street has stopped receiving. (The
> person with the radio in the street is moving away from the office.)
>
> The radios are the same and the power supplies to the radios are the
> same. Indeed switching the radios gives the same effect.
>

> The propagation paths between the two radios are the same in terms of
> distance. However the radio signal transmitted from the office travels
> through walls first before then traveling through open space. Its the
> opposite for the radio in the street, firstly traveling through space
> and then through the walls in the office.
>
> We did think we had identified an interfeering source in one direction
> (when moving away from the office) so we started moving in the
> opposite direction. We found exactly the same effect.
>
> Are we getting interfeerance from GSM, ISM or Paging?
>
> As far as GSM bands go in Europe 890=96915 MHz OR 1710=961785 MHz So thes=
e
> shouldnt be our problem.
>
> ISM is where we intend to operate and the greatest band occupancy
> should be 10%. So we should get communication even though we would get
> some interfeerance.
>
> Paging - well this has very much gone out of fashion in Europe. But
> even if it was the cause then wouldnt it be intermittant
> communication. We have a constant problem.
>
> Can anyone shed light on this phenomonon? Is it an issue of wireless
> propagation that Im not familiar with or is it Interfeerance?
>
> Best regards, and thanks for any input.
>
> Denis
> _____________________http://www.CentronSolutions.com

Denis,

I agree with some of your previous posts - the outside receiver is
likely being desensed by a strong signal, perhaps away from or a
harmonic of the frequency you're using. I suggest trying the test away
from town and at least 10km from strong transmitting towers. Let us
know what you find out - may help those of us who do UHF/VHF mobile/
portable hamming.

As a ham I have NOT PROBLEM with the commercial community asking
questions on a ham radio group - we can ALL learn from this.

Cheers,

Dick Post, N7EMW
www.repdesign.us

From 8892402049854247049
X-Google-Thread: 108122,8d11a593302b028e,start

```
X-Google-Thread: fc2a5,8d11a593302b028e,start
X-Google-Thread: 107ada,8d11a593302b028e,start
X-Google-Thread: 110c99,8d11a593302b028e,start
X-Google-Thread: 111320,8d11a593302b028e,start
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!n33g2000pri.googlegroups.com!not-for-
mail
From: tyreemand@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: Democrats sexy meltdown
Date: Tue, 28 Oct 2008 11:24:58 -0700 (PDT)
Organization: http://groups.google.com
Lines: 7
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     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:3155
rec.radio.amateur.homebrew:3451 rec.radio.amateur.misc:9402 rec.running:24004
rec.scouting.issues:3845

 http://salo.coolpage.biz/amateur.htm  read full=EF=BF=BD Natalie felt it w=
as
only fair that I remove the gag from Bills mouth so  he could answer
his loving wife and daughters probing questions. After clearing his
throat he said something that I will never forget Hillary  I feel your
pain http://groups.google.com/group/sexual-meltdown http://sexual-meltdown.=
blogspot.com/



From -2872220557446249984
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n33g2000pri.googlegroups.com!not-for-
mail
```

From: Mark <makolber@yahoo.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.radio.amateur.equipment
Subject: Re: 868MHz Propagation problem
Date: Tue, 28 Oct 2008 12:19:44 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <8a181d97-fbfc-450b-9944-2822ae4f203b@n33g2000pri.googlegroups.com>
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
<4903b656$0$4918$9a6e19ea@unlimited.newshosting.com>
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Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1225221584 21858 127.0.0.1 (28 Oct 2008 19:19:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 28 Oct 2008 19:19:44 +0000 (UTC)
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User-Agent: G2/1.0
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1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1001
rec.radio.amateur.antenna:4971 sci.electronics.design:38583
rec.radio.amateur.equipment:794

>
> What is the modulation type and data rate? Could be a delay spread
> issue. Maybe the outside unit is receiving a reflected signal from the
> surface of a nearby structure and is experiencing inter-symbol
> interference that by chance the base unit is shielded from. This would
> occur only if a high symbol rate was being used.
>
>

i was thinking about that...but no....

all the multi-path paths are reciprocal as well,,, so whatever the
delay spread is one way should be the same the other way.

Mark

From -5855554069964120438
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252

Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 28 Oct 2008 14:21:35 -0500
Reply-To: "Tam" <t-tammaru@c0mca$t.net>
From: "Tam" <t-tammaru@comcast.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
<3103a4b3-9e42-445f-9c4e-0f26997fd19c@x16g2000prn.googlegroups.com>
In-Reply-To: <3103a4b3-9e42-445f-9c4e-0f26997fd19c@x16g2000prn.googlegroups.com>
Subject: Re: 868MHz Propagation problem
Date: Tue, 28 Oct 2008 15:21:41 -0400
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="Windows-1252";
     reply-type=original
Content-Transfer-Encoding: 8bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
Message-ID: <jeydnam0_4ai-5rUnZ2dnUVZ_vednZ2d@comcast.com>
Lines: 80
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.139.6.234
X-Trace: sv3-
srYwwMyi28QXDoPShJyIIB1+NXI4ujy56zbrD8XgDACSCm090bNlnPy4yI2JB6cQViCrcA1z4ScrFog!
ojjJYjJDifq8y9GfmGg4bcxJ5LtAK1Ve/b/ASQSEiMn3R4bPcaxhFfR6sEXhUf1aLFycmLvUWLu4!
hcngxMP1pI8Ie0mryoRYK7wXlYAN
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1002
rec.radio.amateur.antenna:4972 sci.electronics.design:38584
rec.radio.amateur.equipment:795

"Radio_Dick" <rspost@mail.com> wrote in message
news:3103a4b3-9e42-445f-9c4e-0f26997fd19c@x16g2000prn.googlegroups.com...
On Oct 24, 5:14 am, dgleeson422111 <dglees...@eircom.net> wrote:
> Hello All
>
> We have a propagation issue that is confusing us. We have two 868MHz
> modules on test, each capable of 500mW transmission.
>
> We are testing to find the range of communication. We are testing them
> as follows. One remains in our office while the other is taken to the

> street outside. we are communicating charecter strings such as "Im at the lamp post number 1" etc. There is somebody at each end sending text strings in a continuous conversation. There is no protocol, error checking or error recovery.
>
> What we have repetadly found is that the radio in the office can receive long after the radio in the street has stopped receiving. (The person with the radio in the street is moving away from the office.)
>
> The radios are the same and the power supplies to the radios are the same. Indeed switching the radios gives the same effect.
>
> The propagation paths between the two radios are the same in terms of distance. However the radio signal transmitted from the office travels through walls first before then traveling through open space. Its the opposite for the radio in the street, firstly traveling through space and then through the walls in the office.
>
> We did think we had identified an interfeering source in one direction (when moving away from the office) so we started moving in the opposite direction. We found exactly the same effect.
>
> Are we getting interfeerance from GSM, ISM or Paging?
>
> As far as GSM bands go in Europe 890�915 MHz OR 1710�1785 MHz So these shouldnt be our problem.
>
> ISM is where we intend to operate and the greatest band occupancy should be 10%. So we should get communication even though we would get some interfeerance.
>
> Paging - well this has very much gone out of fashion in Europe. But even if it was the cause then wouldnt it be intermittant communication. We have a constant problem.
>
> Can anyone shed light on this phenomonon? Is it an issue of wireless propagation that Im not familiar with or is it Interfeerance?
>
> Best regards, and thanks for any input.
>
> Denis
> _____________________http://www.CentronSolutions.com

Denis,

I agree with some of your previous posts - the outside receiver is likely being desensed by a strong signal, perhaps away from or a harmonic of the frequency you're using. I suggest trying the test away from town and at least 10km from strong transmitting towers. Let us know what you find out - may help those of us who do UHF/VHF mobile/portable hamming.

As a ham I have NOT PROBLEM with the commercial community asking questions on a ham radio group - we can ALL learn from this.

Cheers,

Dick Post, N7EMW
www.repdesign.us

****
I don't know why I don't get the > on your response, but whatever.
He can get some feel for what is going on by taking *both* radios outside
near his office, and walking around. He should be able to find a particular
area that has poor reception. I don't buy the explanations for antenna gain
and multipath, they should affect both directions of transmission equally.

Tam

From 5723627582040444538
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!feeder.news-service.com!border1.nntp.ams.giganews.com!nntp.giganews.com!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Date: Wed, 29 Oct 2008 00:52:16 +0100 (CET)
Organization: Mostly In Piles
Lines: 32
Message-ID: <Xns9B45B5CCECE822MDWN@194.177.96.78>
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com> <jCrNk.6137$be.3381@nlpi061.nbdc.sbc.com> <Xns9B44B5D59633D2MDWN@194.177.96.78> <N3uNk.6144$be.293@nlpi061.nbdc.sbc.com>
NNTP-Posting-Host: /+F5s9pS3GmH9UkABcFp8g.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Tue, 28 Oct 2008 23:52:16 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3454

Howdy Hank,

Thanks for the follow-up! Perhaps they used a voltage regulating
transformer. I think some of the telcom rectifiers used them.
I know some mainframe computers did.

It's still a curiosity to me. Though I've seen enough occult
behavior from wound magnetic devices that I wouldn't discount it,
I'm tempted to wonder if there's another variable that was
coincident with the welded laminations.

73

"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in
news:N3uNk.6144$be.293@nlpi061.nbdc.sbc.com:

> Grumpy
> Years ago in 93 or so on a Telco fiber system by Alcatel we took severe
> hits when the air conditioner came on and it was traced to the station
> rectifier. The Gould rectifiers had a weld bead and when we replaced
> them another make which I can't recall that didn't have weld beads the
> problem went away. Its quite strange since the rectifiers floated big
> batteries but a vco in system was sensitive to the spike. After doing
> some research I found an explanation that I can't recall because I was
> too busy with other problems and mine had gone away. Alcatel spent
> several hundred thousand trying to find the problem and I stumbled on to
> it by shear luck.
>
> 73
> Hank WD5JFR

From 6658245730061581616
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Date: Wed, 29 Oct 2008 01:04:14 +0100 (CET)
Organization: Mostly In Piles
Lines: 55
Message-ID: <Xns9B45B7D3F9BB32MDWN@194.177.96.78>
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com> <Pine.NEB.4.64.0810280318140.9467@sdf.lonestar.org>
NNTP-Posting-Host: /+F5s9pS3GmH9UkABcFp8g.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Wed, 29 Oct 2008 00:04:14 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3455

It's not so far out of a suggestion. One of my Zenith console radios has some remote control solenoid mounted inside a metal box that's lined with rubber.

The sand is a pretty good thermal conductor (compared to air), better than epoxy. In fact they fill the cheaper type of epoxy potting material with coarse quartzite or powdered limestone to improve its the thermal conductivity. It's the air trapped between the grains of sand that provide some thermal insulation. Mixing sand with epoxy or oil fills the interstaces which would otherwise be filled with air.

Some one mentioned coating the laminations with nail polish as you stack them up to glue them together. Either that or little varnish would most likely have prevented any buzzing laminations.

Not taking the laminations off is a good suggestion too if it's possible. For instance microwave oven transformers just chisel off the secondary and wind a new one. Though for smaller transformers that often isn't possible.

Stray Dog <sdog2008@sdf.lonestar.org> wrote in
news:Pine.NEB.4.64.0810280318140.9467@sdf.lonestar.org:

>
> This might be a little "far-out" but, besides just buying more epoxy
> and just doing it right, maybe you could find a can or metal box, put
> the transformer into the box, and fill the box up with enough sand
> that you have 1-2 inches all around the transformer, and that might
> muffle the buzz. You'll need to worry about heat dissipation through
> that sand which will act like an insulator, but if you are on the air
> only a couple of hours per day, it should not get dangerously hot
> (however, many of the old hermetically sealed transformers were
> burried in a waxy-tar that was quite hard at room temperature).
>
> Your other option is to figure out some clamping arrangement so that
> the laminations are held close and tight.
>
> Re-winding transformers is fun, but next time you want some off-beat
> voltage, maybe scrounge up higher voltages (eg. car battery chargers)
> and use either a variac or power resistor (with sufficient heat
> dissipation) to bring the voltage down to where you want it and save
> yourself the headaches and earaches. Or, don't take the laminations
> apart but feed the wire (stranded) through the holes that are left.
>
> Or, other kludge-cheapskate approaches.
>
> Good luck.

```
From -5633045594880329328
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
```

```
Path: g2news2.google.com!postnews.google.com!l62g2000hse.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Date: Tue, 28 Oct 2008 17:09:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 79
Message-ID: <7fcd542f-cb47-4075-ba9d-67ab0d46a5c1@l62g2000hse.googlegroups.com>
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
     <Pine.NEB.4.64.0810280318140.9467@sdf.lonestar.org>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1225238950 22729 127.0.0.1 (29 Oct 2008 00:09:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 29 Oct 2008 00:09:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l62g2000hse.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3456

On Oct 27, 11:29=A0pm, Stray Dog <sdog2...@sdf.lonestar.org> wrote:
> On Sat, 25 Oct 2008, raypsi wrote:
> > Date: Sat, 25 Oct 2008 10:25:23 -0700 (PDT)
> > From: raypsi <RBorow...@gmail.com>
> > Newsgroups: rec.radio.amateur.homebrew
> > Subject: I built a 7.5VAC 21Amp transformer now it has lots of buzz
>
> > Hey all:
>
> > I tore down a transformer I got from ebay it was a Zenith TV power
> > transformer from days gone by. Re wound it with 17AWG wire on the
> > secondary and primary. It powers up my 4-1000A filament nicely with
> > 7.25VAC from 120VAC mains. I used a penta-filar winding on the
> > secondary. Shimmed the bobbin in the =A0core window =A0with some 1/8 th=
ick
> > virgin teflon. Epoxied the windings to the bobbin. This was a 240VA
> > transformer and now is a 83watt buzzer / 157watt filament transformer.
>
> > So what is the cheapest I can gits away with sealing these laminations
> > from buzzing, I used up all my epoxy sealing the windings.
>
> > 73
>
> > n8zu
>
> This might be a little "far-out" but, besides just buying more epoxy and
> just doing it right, maybe you could find a can or metal box, put the
```

> transformer into the box, and fill the box up with enough sand that you
> have 1-2 inches all around the transformer, and that might muffle the
> buzz. You'll need to worry about heat dissipation through that sand which
> will act like an insulator, but if you are on the air only a couple of
> hours per day, it should not get dangerously hot (however, many of the ol=
d
> hermetically sealed transformers were burried in a waxy-tar that was
> quite hard at room temperature).
>
> Your other option is to figure out some clamping arrangement so that the
> laminations are held close and tight.
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> Re-winding transformers is fun, but next time you want some off-beat
> voltage, maybe scrounge up higher voltages (eg. car battery chargers)
> and use either a variac or power resistor (with sufficient heat
> dissipation) to bring the voltage down to where you want it and save
> yourself the headaches and earaches. Or, don't take the laminations apart
> but feed the wire (stranded) through the holes that are left.
>
> Or, other kludge-cheapskate approaches.
>
> Good luck.- Hide quoted text -
>
> - Show quoted text -

I have always dunked them in varnish but only got some success with
this by
drawing a vaccum then applying pressure. I used an old compressor
from
a refrigarator to do this. The tank was made from from pipe and
fittings. The best
results I got was winding the core on a block of wood cut the same
size as
the core wrapping the wood with cardboard then windng the coil then
pushed
then put the core together. I was 18 at the time and a very talented
man
named Olin Griggs helped me with this project and let me use his
shop.
Olin was a retired engineer that had worked for GE at their
Bloomington plant.
Since then the onl transformers I have wound that havent bussed to
much
was by modifying a ready built transformer. USually this meant one
that I
on which I could keep the primary winding intact. Lately I have gotten
interested
in SMPSs for doing this sort of thing. It is very easy to see why
industry has
has made the move to them.

Jimmie

From -4840745302193476928
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!flpi089.ffdc.sbc.com!prodigy.net!
flpi088.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!nlpi061.nbdc.sbc.com.POSTED!
c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
<jCrNk.6137$be.3381@nlpi061.nbdc.sbc.com> <Xns9B44B5D59633D2MDWN@194.177.96.78>
<N3uNk.6144$be.293@nlpi061.nbdc.sbc.com> <Xns9B45B5CCECE822MDWN@194.177.96.78>
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Lines: 52
MIME-Version: 1.0
Content-Type: text/plain;
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Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <OQNNk.6237$be.3542@nlpi061.nbdc.sbc.com>
NNTP-Posting-Host: 70.143.34.184
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi061.nbdc.sbc.com 1225238958 ST000 70.143.34.184 (Tue, 28 Oct 2008
20:09:18 EDT)
NNTP-Posting-Date: Tue, 28 Oct 2008 20:09:18 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
[[PAPDCA[S@ERQXXKZOX_RXAUSXB@DTMNHWB_EYLJZ]BGIEL_NTKAH_[JTXDX_KI\VB]JBVMS^YT_G[CZV
WAOS\DHFWEH]@KGXYHB_CMDSFABP^J[AHHRKARLE_JDBLJ\XA[JRMEI]MGJSPB\Y]^KG\@S^@VQKI_Q[G
@@_ACSARASDEFLBJ]S\GFNTUAVBL
Date: Tue, 28 Oct 2008 19:09:18 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:3457

Hey Grump
A transformer is one of the simplest electrical machines and pretty well understood in the classical design but when some of the parameters are changed we don't have much experience or investigation and probably wont. Hot swappable rectifier modules have made transformer based rectifiers uneconomical kinda like carburetors and fuel injection. If you have the time, check with some of the old time designers of transformer rectifiers. Let me now what you find out. I had some notes but those are long gone.
Hank
"Grumpy The Mule" <s_foonly@foo.bar> wrote in message
news:Xns9B45B5CCECE822MDWN@194.177.96.78...
> Howdy Hank,

>
> Thanks for the follow-up! Perhaps they used a voltage regulating
> transformer. I think some of the telcom rectifiers used them.
> I know some mainframe computers did.
>
> It's still a curiosity to me. Though I've seen enough occult
> behavior from wound magnetic devices that I wouldn't discount it,
> I'm tempted to wonder if there's another variable that was
> coincident with the welded laminations.
>
> 73
>
>
>
> "Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in
> news:N3uNk.6144$be.293@nlpi061.nbdc.sbc.com:
>
>> Grumpy
>> Years ago in 93 or so on a Telco fiber system by Alcatel we took
>> severe
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>> station
>> rectifier. The Gould rectifiers had a weld bead and when we replaced
>> them another make which I can't recall that didn't have weld beads
>> the
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>> big
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>> doing
>> some research I found an explanation that I can't recall because I
>> was
>> too busy with other problems and mine had gone away. Alcatel spent
>> several hundred thousand trying to find the problem and I stumbled on
>> to
>> it by shear luck.
>>
>> 73
>> Hank WD5JFR

From -1726462975539928526
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2!
nlpi057.nbdc.sbc.com!prodigy.net!flpi088.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!nlpi061.nbdc.sbc.com.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
<jCrNk.6137$be.3381@nlpi061.nbdc.sbc.com> <Xns9B44B5D59633D2MDWN@194.177.96.78>
<N3uNk.6144$be.293@nlpi061.nbdc.sbc.com> <Xns9B45B5CCECE822MDWN@194.177.96.78>

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<OQNNk.6237$be.3542@nlpi061.nbdc.sbc.com>
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Lines: 57
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <XgONk.6240$be.368@nlpi061.nbdc.sbc.com>
NNTP-Posting-Host: 70.143.34.184
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi061.nbdc.sbc.com 1225240759 ST000 70.143.34.184 (Tue, 28 Oct 2008
20:39:19 EDT)
NNTP-Posting-Date: Tue, 28 Oct 2008 20:39:19 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
[[OERYWDPZRORRDXN[O@_WH@YR_B@EXLLBWLOOAFQATJUZ]CDVW[AKK[J\]^HVKHG^EWZHBLO^[\NH_AZF
WGN^\DHNVMX_DHHX[FSQKBOTS@@BP^]C@RHS_AGDDC[AJM_T[GZNRNZAY]GNCPBDYKOLK^_CZFWPGHZIXW
@C[AFKBBQS@E@DAZ]VDFUNTQQ]FN
Date: Tue, 28 Oct 2008 19:39:19 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:3458

I left out switch based hot swappable
"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in message
news:OQNNk.6237$be.3542@nlpi061.nbdc.sbc.com...
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>>> it by shear luck.
>>>
>>>  73
>>> Hank WD5JFR
>



From -1721910998462758492
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
news2.arglkargh.de!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
Subject: Re: 868MHz Propagation problem
Date: Tue, 28 Oct 2008 18:14:49 -0700
Organization: albasani.net
Lines: 18
Message-ID: <ge8de6$6qf$1@news.albasani.net>
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252; format=flowed
```

Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net k8aOMQ824+F5JKT/
iUcNfPOFdep6ALnrW9Tjmslt3V+RSzEcBeSfAMQQEum+g+NBcqMPGd9PTwUIBMzOFzAHyPN1koRPWRtBat
e6MIYzJMTjGDeviaGZjZx93UQ9varO
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Wed, 29 Oct 2008 01:14:46 +0000 (UTC)
X-User-ID: fPjh0GBzspphgicqmgkbB9V7SmXJ3JnhoR9Acjezhvc=
In-Reply-To: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
Cancel-Lock: sha1:gc8KcbT/tvemwwCVf4bwF4xufsw=
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
X-NNTP-Posting-Host: Rq5KHeJD2gQnXzQG2/lqkb3j6KS9K8iKYVA5mDVxrFM=
Xref: g2news1.google.com rec.radio.amateur.homebrew:1008
rec.radio.amateur.antenna:4979 sci.electronics.design:38655
rec.radio.amateur.equipment:796

dgleeson422111 wrote:

 >> ...
> Best regards, and thanks for any input.
>
> Denis
> _____________________
> http://www.CentronSolutions.com

Since most of the posts, in their "EXPERT OPINIONS", relate to your
receiver being "de-sensed", do you have a way of negating/affirming this?

Begin there, and we can get down to "real problems!" :-) i.e., a
wide-band field strength meter, freq counter, etc. will either make all
this "right" or "wrong."

Regards,
JS

From -6358890391770828869
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
newsfeed.straub-nv.de!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
Subject: Re: 868MHz Propagation problem
Date: Tue, 28 Oct 2008 18:16:33 -0700
Organization: albasani.net
Lines: 11
Message-ID: <ge8dhf$6qf$2@news.albasani.net>

References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
<ge8de6$6qf$1@news.albasani.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net D7WZDZxg3/
NTl6edV7QkTNeImLYXBiwK3ABkKp7YF4YZ6CJVRV2uLgFoh/
yca4Y6YiUOmdGIVFGDHC62w5r276jyMaUismY4qVtPG01BFAi+Mq5bLUxL+YNf+Y2ind3a
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Wed, 29 Oct 2008 01:16:31 +0000 (UTC)
X-User-ID: yNT8Ry8Jh3v+mxgylpRiYNLrLfbglyGK9jCdjGJ1H4k=
In-Reply-To: <ge8de6$6qf$1@news.albasani.net>
Cancel-Lock: sha1:TLS60jxinBzZO4ktxCzMQ+lLARc=
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
X-NNTP-Posting-Host: QEMwYWnh336V4D71eUi1UtTazwAr+UeZx6NeHJqI96Y=
Xref: g2news2.google.com rec.radio.amateur.homebrew:3460
rec.radio.amateur.antenna:21526 sci.electronics.design:132861
rec.radio.amateur.equipment:3159

John Smith wrote:

> ...
> Regards,
> JS

And, I should have included, beg one, buy one, borrow one, steal one,
etc. ...

Regards,
JS

From -6047262180402360675
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 29 Oct 2008 00:46:48 -0500
From: "Brenda Ann" <brendad@shinbiro.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.radio.amateur.equipment
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
<ge8de6$6qf$1@news.albasani.net>
Subject: Re: 868MHz Propagation problem
Date: Wed, 29 Oct 2008 14:46:49 +0900
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180

```
X-RFC2646: Format=Flowed; Response
Message-ID: <--SdnWQYjp1VZZrUnZ2dnUVZ_sPinZ2d@giganews.com>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-xctKUADvFTqnZfNYmr2f+JLfKj9sl2s7MYtf5ybXcwAu2eqaQ7EiM6ZDe0GWQK/
XAIgeoGpGUDNqkGC!MlsstUN4IbRDGKJLrsu07I5VT2JS+L89kHawHUdNvMy8UMKjBv/
bvkHq7bmVpwLP847L8stV
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1010
rec.radio.amateur.antenna:4988 sci.electronics.design:38709
rec.radio.amateur.equipment:798
```

```
"John Smith" <assemblywizard@gmail.com> wrote in message
news:ge8de6$6qf$1@news.albasani.net...
> dgleeson422111 wrote:
>
> >> ...
>> Best regards, and thanks for any input.
>>
>> Denis
>> ______________________
>> http://www.CentronSolutions.com
>
> Since most of the posts, in their "EXPERT OPINIONS", relate to your
> receiver being "de-sensed", do you have a way of negating/affirming this?
>
```

Desense is definately a possibility, but I still believe that it's at least AS good a chance that it's a standing wave issue on the office end. Others have said to take the 'office' radio outdoors and test the setup that way. That's a good (and simple) test.

```
From 5975656286748999653
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Date: Wed, 29 Oct 2008 07:34:21 +0100 (CET)
Organization: Mostly In Piles
Lines: 55
Message-ID: <Xns9B465D4868E62MDWN@194.177.96.78>
```

References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
<jCrNk.6137$be.3381@nlpi061.nbdc.sbc.com> <Xns9B44B5D59633D2MDWN@194.177.96.78>
<N3uNk.6144$be.293@nlpi061.nbdc.sbc.com> <Xns9B45B5CCECE822MDWN@194.177.96.78>
<OQNNk.6237$be.3542@nlpi061.nbdc.sbc.com>
NNTP-Posting-Host: SiOQ+JNgkGzKYr85EhjLfg.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Wed, 29 Oct 2008 06:34:21 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3462

Howdy Hank,

I've been designing switch mode magnetics for about thirty years now. The more I learn the less I know. It's true that the principles are well known but the implementation is a morass of compromises. At the power level many of my designs operate at, second and third order effects can suddenly become serious and unexpected design complications. Some people enjoy puzzles. I guess that's why I like designing this sort of stuff.

I've worked on a lot of weird stuff, big cap charging supplies, pulse compressors, very high voltage or high current, and tiny stuff with extremely low noise outputs. But I don't have much experience with line frequency magnetics beyond EMI filters. As you say there's not much call for it now. But unfettered by all the weak components the big iron can support amazing overloads, so I think there's still a place for it. At least for now. The cost of steel and copper (and the transportation costs) for such heavy beasts is certainly making them increasingly less attractive.

Lately I've been working on equipment in the 10KW-60KW output range switching at 75KHz range. The whole system weighs much less than just the line frequency transformer that would be required alone.

The only big iron guys I know are now retired or dead. And the companies I've dealt with that make that stuff tend to have very little engineering staff, not much new going on, (other than some efficiency improvements from amorphous cores) they just crank out the product in cook book fashion. I think nuances of it may soon be a lost.

73

"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in news:OQNNk.6237$be.3542@nlpi061.nbdc.sbc.com:

> Hey Grump
> A transformer is one of the simplest electrical machines and pretty well
> understood in the classical design but when some of the parameters are
> changed we don't have much experience or investigation and probably
> wont. Hot swappable rectifier modules have made transformer based
> rectifiers uneconomical kinda like carburetors and fuel injection. If
> you have the time, check with some of the old time designers of
> transformer rectifiers. Let me now what you find out. I had some notes
> but those are long gone.
> Hank

```
From 1829657676021329830
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!news.k-
dsl.de!newsfeed.freenet.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
Subject: Re: 868MHz Propagation problem
Followup-To: rec.radio.amateur.homebrew
Date: Wed, 29 Oct 2008 08:02:54 +0000
Organization: Bias Comms
Lines: 13
Message-ID: <6mqjltFe8shpU1@mid.individual.net>
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
<ge8de6$6qf$1@news.albasani.net> <--SdnWQYjp1VZZrUnZ2dnUVZ_sPinZ2d@giganews.com>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net xtcDCFIraqXCqBUx11KYWQveMtHd8hH0EzFvwtH2GsIu8Nat1C
Cancel-Lock: sha1:nesUY47qFrDRaQSE8yirULi+iaw=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1012
rec.radio.amateur.antenna:4992 sci.electronics.design:38717
rec.radio.amateur.equipment:799
```

Brenda Ann wrote:

> Desense is definately a possibility, but I still believe that it's at least
> AS good a chance that it's a standing wave issue on the office end. Others
> have said to take the 'office' radio outdoors and test the setup that way.
> That's a good (and simple) test.

I'm /still/ more inclined towards a desense problem - cities are astonishingly noisy these days throughout the RF spectrum. I've recently had 4.9 GHz data transmission problems that were eventually traced to a harmonic of a nearby surveillance TV transmitter!

Bob

From -4123503675129002858
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!feeder.erje.net!feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.radio.amateur.equipment
Subject: Re: 868MHz Propagation problem
Message-ID: <o7bgg41fq19nuqssnp6mk4h4u4kfeuolqt@4ax.com>
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com> <ge8de6$6qf$1@news.albasani.net> <--SdnWQYjp1VZZrUnZ2dnUVZ_sPinZ2d@giganews.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 54
Date: Wed, 29 Oct 2008 11:59:31 +0200
NNTP-Posting-Host: 85.77.254.162
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1225274367 85.77.254.162 (Wed, 29 Oct 2008 11:59:27 EET)
NNTP-Posting-Date: Wed, 29 Oct 2008 11:59:27 EET
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:3464 rec.radio.amateur.antenna:21539 sci.electronics.design:132924 rec.radio.amateur.equipment:3162

On Wed, 29 Oct 2008 14:46:49 +0900, "Brenda Ann"
<brendad@shinbiro.com> wrote:

>
>"John Smith" <assemblywizard@gmail.com> wrote in message
>news:ge8de6$6qf$1@news.albasani.net...

>> Since most of the posts, in their "EXPERT OPINIONS", relate to your
>> receiver being "de-sensed", do you have a way of negating/affirming this?

Desense caused by out of band signals if of course possible when we talk about such toy receivers as most wireless LAN or wireless headphones are.

However, since the 868 MHz band is a non-licenced band, it is quite likely that there might be other transmitters (e.g. wireless headphones) in the area of the moving transmitter, but not near the office transmitter.

Give a spectrum analyzer to the moving station operator to monitor the interference level in that frequency band, when the moving transmitter is off. A scanner receiver with a decent signal strength indicator might even suffice.

>Desense is definately a possibility, but I still believe that it's at least
>AS good a chance that it's a standing wave issue on the office end.

This is out of the question for any single frequency half duplex connection, since the path would be reciprocal. In a full duplex dual frequency point to point system between two _fixed_ station, this would be definitively possible. Even in this case, moving the other station by 10-30 cm, you would find a spot, in which there is a good connections both ways.

Based on my experience at 1297 MHz with a narrow band (16 kHz) signal in urban environment, you definitively have a lot of multipath nulls (several nulls every meter), For speech communication, this is not much of an issue, the faster you move, you have hundreds of nulls every second and it does not much affect the readability of the speech. The only problem is that if you stop at a traffic light, you usually will end up in a multipath null and the communication is broken, unless you can slide the car a few centimeters.

>Others
>have said to take the 'office' radio outdoors and test the setup that way.
>That's a good (and simple) test.

The OP did swap the radios, but he did not tell if the power supply was also swapped. If the office power supply was faulty and the office transmitter could not deliver the nominal power, this could explain the situation.

Paul

From 3275172507257264682
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!r37g2000prr.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Date: Wed, 29 Oct 2008 03:06:39 -0700 (PDT)

Organization: http://groups.google.com
Lines: 80
Message-ID: <1c8cabda-29c9-4f5e-b70b-970fc328590a@r37g2000prr.googlegroups.com>
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
     <jCrNk.6137$be.3381@nlpi061.nbdc.sbc.com>
<Xns9B44B5D59633D2MDWN@194.177.96.78>
     <N3uNk.6144$be.293@nlpi061.nbdc.sbc.com>
<Xns9B45B5CCECE822MDWN@194.177.96.78>
     <OQNNk.6237$be.3542@nlpi061.nbdc.sbc.com>
<Xns9B465D4868E62MDWN@194.177.96.78>
NNTP-Posting-Host: 76.226.99.187
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1225274799 20873 127.0.0.1 (29 Oct 2008 10:06:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 29 Oct 2008 10:06:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r37g2000prr.googlegroups.com; posting-host=76.226.99.187;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1014

hey all:

>A good trick for the lams is clear nail polish as you reassemble them.
Just a quick wipe, as it'll spread as you squeeze in the last few
lams
under a "Quick-Grip" clamp.

I could go to the nail shop get a peddicure and coat my lams at the
same time. A great idea if only I could handle the fumes.

>Varnish is the best thing. Warm the varnish and the
transformer first before you dunk it. That will reduce
the viscosity and improve penetration. A little thinner
in the pot may help too.

I lucky I can stand the effects of epoxy but no way varnish. For nail
polish or varnish I gots to gits me a up or down draft venilator
exhastt system.

>If you have bolts thru the lams have you torqued them to the point of
twisting them off? If you haven't you might want to loosen then and
add
some more varnish to the lams while they're loose and then torque
them

Thanks I retorqued them and that reduced the noise by 6db. Now I have
a less effecient buzzer

>Bolts through the laminations should have insulators
(usually fiber board washers) under the heads. Just
one end will do, there's no need for them under the
nuts. But shoulder washers are best so the bolts don't
short any laminations together deeper into the core.

Good idea I seen many a transformer that had fiber spacers over the whole length of the bolt plus fiber washers..

>put the
transformer into the box, and fill the box up with enough sand that
you
have 1-2 inches all around the transformer, and that might muffle the
buzz. You'll need to worry about heat dissipation through that sand
which
will act like an insulator, but if you are on the air only a couple
of
hours per day,

I likes this one, but I gots alot of kittie litter that comes from some place in Arkansas, it is mostly quartz and some other trace minerals.

The only big iron guys I know are now retired or dead. And the companies I've dealt with that make that stuff tend to have very little engineering staff, not much new going on, (other than some efficiency improvements from amorphous cores) they just crank out the product in cook book fashion. I think nuances of it may soon be a lost.

Yes lams are going the way of the dinosuars. Maybe that's why they cost so much looky the price of a good audio output transformer for a tube audio amplifier and they go up to at least 20Khz.

Your other option is to figure out some clamping arrangement so that
the
laminations are held close and tight.

Yes I think I will put together a vise of sorts. Custom made to fit the transformer.

73 and thanks for all the good information.

n8zu

```
From 7293032166145293187
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 29 Oct 2008 07:21:54 -0500
Date: Wed, 29 Oct 2008 12:21:43 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
     <jCrNk.6137$be.3381@nlpi061.nbdc.sbc.com>
<Xns9B44B5D59633D2MDWN@194.177.96.78>     <N3uNk.6144$be.293@nlpi061.nbdc.sbc.com>
<Xns9B45B5CCECE822MDWN@194.177.96.78>
<OQNNk.6237$be.3542@nlpi061.nbdc.sbc.com> <Xns9B465D4868E62MDWN@194.177.96.78>
<1c8cabda-29c9-4f5e-b70b-970fc328590a@r37g2000prr.googlegroups.com>
In-Reply-To: <1c8cabda-29c9-4f5e-b70b-970fc328590a@r37g2000prr.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <KO-dnRkE6o3_yJXUnZ2dnUVZ8uWdnZ2d@pipex.net>
Lines: 39
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 85.210.100.110
X-Trace: sv3-uxNE/A4+2oTLyC+h1YE/
mHKPP8glWaM9opnFTynNWeiy4upZIVdacs5ZlBcy4geYMus3Em4Z/Egusz9!
uHx2TqCdkl2CszBGgmFck9eCdpcoxa7JAzKHOzc/BuL+B4vbKeVktXIeI22lxicv49y4MiQxyMGO!
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X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1015
```

> The only big iron guys I know are now retired or dead.
> And the companies I've dealt with that make that stuff
> tend to have very little engineering staff, not much new
> going on, (other than some efficiency improvements from
> amorphous cores) they just crank out the product in cook
> book fashion. I think nuances of it may soon be a lost.
>
> Yes lams are going the way of the dinosuars. Maybe that's why they
> cost so much looky the price of a good audio output transformer for a
> tube audio amplifier and they go up to at least 20Khz.
>
> Your other option is to figure out some clamping arrangement so that
> the

> laminations are held close and tight.
>
> Yes I think I will put together a vise of sorts. Custom made to fit
> the transformer.

==============
Followed this thread with great interest .
Reason : I have an Astron RS-50A , 13.8V -50 Amperes unit for 220V-AC
input which is buzzing heavily. Upon switch-on the group circuit breaker
in the house sometimes trips due to the high switch-on current surge .
This can be overcome by adding a soft start circuit which initially puts
a say 25 Ohms-50Watts resistor in series with the primary transformer
winding ,shorting this resistor after a second or so.

However I fear that the main reason for the buzzing is that the
transformer (of US origin) was designed for 60 Hz ,whereas here in the
UK (like in all European countries) the supply frequency is 50 Hz.
Can someone on this NG please confirm/reject my suspicion.

Another possible reason could be that the cabinet sheet metal which is
very close to the transformer is vibrating (transducer effect) .

TIA for any constructive advice/opinion

Frank   GM0CSZ / KN6WH

From 4626865396872524222
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!d1g2000hsg.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Date: Wed, 29 Oct 2008 07:12:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 48
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References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:1016

On Oct 29, 8:21=A0am, Highland Ham <rfbu...@allbands.net> wrote:
> > The only big iron guys I know are now retired or dead.
> > And the companies I've dealt with that make that stuff
> > tend to have very little engineering staff, not much new
> > going on, (other than some efficiency improvements from
> > amorphous cores) they just crank out the product in cook
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>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
> Followed this thread with great interest =A0.
> Reason : I have an Astron RS-50A =A0, 13.8V -50 Amperes =A0unit =A0for 22=
0V-AC
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>
> Another possible reason could be that the cabinet sheet metal which is
> very close to the transformer is vibrating (transducer effect) .
>
> TIA for any constructive advice/opinion
>
> Frank =A0 =A0 GM0CSZ / KN6WH- Hide quoted text -
>
```

> - Show quoted text -

Frank I emailed XXXXXXX's address to you. He designed the Astron Power
supply.

Jimmie

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From 8963026395441096625
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
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NNTP-Posting-Date: Wed, 29 Oct 2008 13:08:05 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
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Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Wed, 29 Oct 2008 10:55:14 -0700
Message-ID: <2lkmt5-8jv.ln1@radagast.org>
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3468
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>However I fear that the main reason for the buzzing is that the
>transformer (of US origin) was designed for 60 Hz ,whereas here in the
>UK (like in all European countries) the supply frequency is 50 Hz.
>Can someone on this NG please confirm/reject my suspicion.

I suspect that you are right.

If I recall correctly, transformers designed for 60 Hz can suffer from
excessive quiescent current flow in the primary windings, if used on
50 Hz... the windings don't have enough inductance. Also, because the
frequency is lower, the transformer will be drawing more current
during the brief intervals (100 times per second) when the power

supply rectifiers are conducting and recharging the filter capacitors... the abrupt changes in the current flow and the resulting magnetic-field changes may be causing the windings or laminations to move around and buzz.

Transformers designed for 50 Hz service generally work OK on 60 Hz... it an "easier" job for them.

Transformers can also buzz if there's anything on the same mains circuit which is generating harmonic currents (e.g. other linear power supplies). Toroidal tranformers can be prone to buzz or hum if other loads on the mains line are drawing current from the line in an asymmetrical fashion and thus creating a DC offset on the mains... the toroid goes into saturation.

```
--
Dave Platt <dplatt@radagast.org>                                    AE6EO
Friends of Jade Warrior home page:  http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!
```

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c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
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Lines: 49
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Date: Wed, 29 Oct 2008 15:43:59 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:1018

Do you have GloBar resistors in the UK? These are high cold and go lo
with current. they used to be very popular in TVs over here.

--
Thanks & 73
Hank WD5JFR
"Highland Ham" <rfburns@allbands.net> wrote in message
news:KO-dnRkE6o3_yJXUnZ2dnUVZ8uWdnZ2d@pipex.net...
>> The only big iron guys I know are now retired or dead.
>> And the companies I've dealt with that make that stuff
>> tend to have very little engineering staff, not much new
>> going on, (other than some efficiency improvements from
>> amorphous cores) they just crank out the product in cook
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```
> very close to the transformer is vibrating (transducer effect) .
>
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> TIA for any constructive advice/opinion
>
> Frank     GM0CSZ / KN6WH
>




From 1776302145839897063
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X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!64g2000hsm.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Date: Wed, 29 Oct 2008 15:57:48 -0700 (PDT)
Organization: http://groups.google.com
Lines: 60
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References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
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Xref: g2news2.google.com rec.radio.amateur.homebrew:3470

On Oct 29, 4:43=A0pm, "Henry Kolesnik" <koles...@nojunksbcglobal.net>
wrote:
> Do you have GloBar resistors in the UK? =A0These are high cold and go lo
> with current. =A0they used to be very popular in TVs over here.
>
```

> --
> Thanks & 73
> Hank WD5JFR"Highland Ham" <rfbu...@allbands.net> wrote in message
>
> news:KO-dnRkE6o3_yJXUnZ2dnUVZ8uWdnZ2d@pipex.net...
>
>
>
> >> The only big iron guys I know are now retired or dead.
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>
> > TIA for any constructive advice/opinion
>
> > Frank =A0 =A0 GM0CSZ / KN6WH- Hide quoted text -
>
> - Show quoted text -

I think some of the PC power supplies have a surge suppresor in them.
I you have some old power supplies around you coulld be in business.

Jimmie

```
From 1908918290907472792
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From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
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Xref: g2news1.google.com rec.radio.amateur.homebrew:1020
```

Grumpy The Mule wrote:

> Uh! Sorry Ray, it was near 2AM and I misread this. Of course
> there's no gap in the core it's a linear AC transformer. No
> DC in the windings and so no gap.
>
> Usually I'd do everything I can to reduce any gap, inclduing
> interleaving the laminations, to reduce the magnetizing current.
>
> I just wasn't thinking, that happens sometimes.
>
>
> raypsi <RBorowiak@gmail.com> wrote in news:ea79280c-6148-42a5-be23-
> 33e848418174@n1g2000prb.googlegroups.com:
>
>> Shimmed the bobbin in the core window with some 1/8 thick
>> virgin teflon. Epoxied the windings to the bobbin. This was a 240VA
>> transformer and now is a 83watt buzzer / 157watt filament transformer.
>

Actually "transformers" that carry DC (IE: filter chokes) have a gap formed by putting ALL the "E"s in one direction and ALL the "I"'s in the other.

For transformers that carry SOME dc (audio output transformers) group the "E"'s and "I"s in bundles and assemble with a few groups of bundles going in opposing directions.

For transformers that carry ONLY dc (power, filament) alternate each lamination so no two in a row go the same way.

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From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
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X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
enggpaojkliedbjjdbdpiflmbcekedmfhojhikkbagflhcboecfapjambhgbplajfjcbmomclaoomcmmeo
gjfikdoldoabmpcnmbcgmhpdepgcegkamohehnohkmchjejkckkiglgnochdmhpiodllpmipjgakdn
NNTP-Posting-Date: Wed, 29 Oct 2008 19:28:28 EDT
Organization: BellSouth Internet Group
Date: Wed, 29 Oct 2008 19:34:59 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:1021

ken scharf wrote:
> Grumpy The Mule wrote:
>> Uh! Sorry Ray, it was near 2AM and I misread this. Of course
>> there's no gap in the core it's a linear AC transformer. No
>> DC in the windings and so no gap.
>>
>> Usually I'd do everything I can to reduce any gap, inclduing
>> interleaving the laminations, to reduce the magnetizing current.
>>
>> I just wasn't thinking, that happens sometimes.
>>
>>

```
>> raypsi <RBorowiak@gmail.com> wrote in news:ea79280c-6148-42a5-be23-
>> 33e848418174@n1g2000prb.googlegroups.com:
>>
>>> Shimmed the bobbin in the  core window  with some 1/8 thick
>>> virgin teflon. Epoxied the windings to the bobbin. This was a 240VA
>>> transformer and now is a 83watt buzzer / 157watt filament transformer.
>>
> Actually "transformers" that carry DC (IE: filter chokes) have a gap
> formed by putting ALL the "E"s in one direction and ALL the "I"'s in the
> other.
>
> For transformers that carry SOME dc (audio output transformers) group
> the "E"'s and "I"s in bundles and assemble with a few groups of bundles
> going in opposing directions.
>
> For transformers that carry ONLY dc (power, filament) alternate each
> lamination so no two in a row go the same way.
I meant for transformers that carry ONLY AC!  oops!


From -3574779736038667363
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!news.k-
dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Date: Thu, 30 Oct 2008 00:57:35 +0100 (CET)
Organization: Mostly In Piles
Lines: 17
Message-ID: <Xns9B46B6B45B74E2MDWN@194.177.96.78>
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
<Xns9B435831173712MDWN@194.177.96.78>
<Cj6Ok.58709$De7.49043@bignews7.bellsouth.net>
<wk6Ok.58710$De7.20670@bignews7.bellsouth.net>
NNTP-Posting-Host: Ywx7PVq/NNFdo/+4Fg61sA.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Wed, 29 Oct 2008 23:57:35 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3473


Yep, It's all about core saturation.  A large utility
transformer can be saturated by just a few amperes
of DC.  Which is one reason improvements in load current
THD are important.  Zero sequence currents and all
that jazz.


ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in
```

news:wk6Ok.58710$De7.20670@bignews7.bellsouth.net:

> ken scharf wrote:
>> For transformers that carry ONLY dc (power, filament) alternate each
>> lamination so no two in a row go the same way.
> I meant for transformers that carry ONLY AC! oops!
>

From -1023476716920459376
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Date: Thu, 30 Oct 2008 01:37:32 +0100 (CET)
Organization: Mostly In Piles
Lines: 60
Message-ID: <Xns9B46BD79DEF452MDWN@194.177.96.78>
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com> <jCrNk.6137$be.3381@nlpi061.nbdc.sbc.com> <Xns9B44B5D59633D2MDWN@194.177.96.78> <N3uNk.6144$be.293@nlpi061.nbdc.sbc.com> <Xns9B45B5CCECE822MDWN@194.177.96.78> <OQNNk.6237$be.3542@nlpi061.nbdc.sbc.com> <Xns9B465D4868E62MDWN@194.177.96.78> <1c8cabda-29c9-4f5e-b70b-970fc328590a@r37g2000prr.googlegroups.com> <KO-dnRkE6o3_yJXUnZ2dnUVZ8uWdnZ2d@pipex.net>
NNTP-Posting-Host: Ywx7PVq/NNFdo/+4Fg61sA.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Thu, 30 Oct 2008 00:37:32 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1023

Howdy,

I think I would measure the line current with no load on the transformer. Then let it idle a while, maybe three hours, then give it the finger test. If it's not warm and the magnetizing current is small, I'd then run it with a heavy load and check it again. If it's not stinky hot (the winding is below about 110C more or less) I'd say it's OK at 50Hz and the breaker tripping is from the inrush current.

There's some inrush current charging the core. That's not a defect though, it's just how things work. The first half cycle peak might be five or more times the peak magnetizing current. The inrush current charging the capacitors is more prolonged. Depending on the curve of the circuit breaker one or both might be to blame.

So if the soft-start circuit works for you just monitor the temperature of the transformer. If it's reasonable don't worry. Then look elsewhere for the cause of the buzzing. The cabinet sheet metal you should be able to quiet with the palm of you hand...

Ok, here's one crazy idea. The inrush current is mostly on the first half cycle so it's magnetizing something, maybe the cabinet who knows what, which is then a more efficient transducer. If you soft start it either doesn't magnetizing the part or perhaps degausses it.

73

Highland Ham <rfburns@allbands.net> wrote in news:KO-dnRkE6o3_yJXUnZ2dnUVZ8uWdnZ2d@pipex.net:

> ==============
> Followed this thread with great interest .
> Reason : I have an Astron RS-50A , 13.8V -50 Amperes unit for 220V-AC
> input which is buzzing heavily. Upon switch-on the group circuit breaker
> in the house sometimes trips due to the high switch-on current surge .
> This can be overcome by adding a soft start circuit which initially puts
> a say 25 Ohms-50Watts resistor in series with the primary transformer
> winding ,shorting this resistor after a second or so.
>
> However I fear that the main reason for the buzzing is that the
> transformer (of US origin) was designed for 60 Hz ,whereas here in the
> UK (like in all European countries) the supply frequency is 50 Hz.
> Can someone on this NG please confirm/reject my suspicion.
>
> Another possible reason could be that the cabinet sheet metal which is
> very close to the transformer is vibrating (transducer effect) .
>
>
> TIA for any constructive advice/opinion
>
> Frank GM0CSZ / KN6WH
>

From -8913207461077705127
X-Google-Thread: 108122,eade95c6f8b48f8a,start
X-Google-Thread: fc2a5,eade95c6f8b48f8a,start
X-Google-Thread: 107ada,eade95c6f8b48f8a,start
X-Google-Attributes: gid108122,gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e2g2000hsh.googlegroups.com!not-for-mail

```
From: tyreemand@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: Devil Or Angel Lucy Finds Out sexo
Date: Thu, 30 Oct 2008 05:42:33 -0700 (PDT)
Organization: http://groups.google.com
Lines: 3
Message-ID: <b8314f07-ffd2-42dc-936e-bcff59a735e8@e2g2000hsh.googlegroups.com>
NNTP-Posting-Host: 92.112.146.171
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1225370555 20093 127.0.0.1 (30 Oct 2008 12:42:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 30 Oct 2008 12:42:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e2g2000hsh.googlegroups.com; posting-host=92.112.146.171;
     posting-account=8N4mVgoAAABmLLkJQvSeZsuS_r9oM6nG
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     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:3164
rec.radio.amateur.homebrew:3475 rec.radio.amateur.misc:9409 rec.running:24017
rec.scouting.issues:3859

On a warm summer night last year, Lucy was walking alone on the side
of the road near a secluded ornamental park. http://sabir.servik.com/hardcore.htm
http://bdsm-big-tits.blogspot.com/  http://groups.google.com/group/salbon-lesbi


From -7217052292165348178
X-Google-Thread: fc2a5,660f7cb852a5acc5,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!j68g2000hsf.googlegroups.com!not-for-
mail
From: Philippe Signoret <philippe.signoret@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Building a repeater
Date: Thu, 30 Oct 2008 07:57:25 -0700 (PDT)
Organization: http://groups.google.com
Lines: 21
Message-ID: <915780b1-9cf5-4fb3-ab57-248fad2a73f3@j68g2000hsf.googlegroups.com>
NNTP-Posting-Host: 132.254.89.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1225378646 24268 127.0.0.1 (30 Oct 2008 14:57:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 30 Oct 2008 14:57:26 +0000 (UTC)
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Complaints-To: groups-abuse@google.com
Injection-Info: j68g2000hsf.googlegroups.com; posting-host=132.254.89.10;
posting-account=I2rbaQoAAAAN7tjNYptGD4OHnvF2flKH
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.3)
Gecko/2008092417 Firefox/3.0.3 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.0 CacheQRO-01 (squid/2.x)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1025

Hello all.

I am trying to build a simple repeater system. This is how I have it
set up:

Kenwood TK-7102 receives on on frequency #1 and is connected to Yaesu
FT-1802 which transmits on frequency #2.

The Carrier Operated Relay output of the Kenwood is connected to the
PTT input on the Yaesu. This works perfectly.

The problem is with the audio. I tried connecting the audio output to
the Mic input on the Yaesu. The result is the audio with a horrible,
high-pitched warble in the background. Any ideas?

I've tried connecting to different audio outputs that I can find in
the service manual, but they all have the same problem.

Thanks!

Philippe Signoret

From -1215733302364042368
X-Google-Thread: fc2a5,660f7cb852a5acc5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!d31g2000hsg.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Building a repeater
Date: Thu, 30 Oct 2008 14:40:36 -0700 (PDT)
Organization: http://groups.google.com
Lines: 30
Message-ID: <61917b9f-38f3-4e22-83cd-fc9547a91c70@d31g2000hsg.googlegroups.com>
References: <915780b1-9cf5-4fb3-ab57-248fad2a73f3@j68g2000hsf.googlegroups.com>
NNTP-Posting-Host: 155.178.6.10
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1225402837 22251 127.0.0.1 (30 Oct 2008 21:40:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 30 Oct 2008 21:40:37 +0000 (UTC)

```
Complaints-To: groups-abuse@google.com
Injection-Info: d31g2000hsg.googlegroups.com; posting-host=155.178.6.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1026
```

On Oct 30, 10:57=A0am, Philippe Signoret <philippe.signo...@gmail.com>
wrote:

> Hello all.
>
> I am trying to build a simple repeater system. This is how I have it
> set up:
>
> Kenwood TK-7102 receives on on frequency #1 and is connected to Yaesu
> FT-1802 which transmits on frequency #2.
>
> The Carrier Operated Relay output of the Kenwood is connected to the
> PTT input on the Yaesu. This works perfectly.
>
> The problem is with the audio. I tried connecting the audio output to
> the Mic input on the Yaesu. The result is the audio with a horrible,
> high-pitched warble in the background. Any ideas?
>
> I've tried connecting to different audio outputs that I can find in
> the service manual, but they all have the same problem.
>
> Thanks!
>
> Philippe Signoret

You may have a ground loop problem. I suggest the use of an isolation
transformer between the transmitter and receiver. Also pay attention
to signal levels, an attenuator be may be required to achive the
proper audio input level to the transmitter.

Jimmie

```
From -7032895749768740673
X-Google-Thread: fc2a5,26a1d8720a5f76fb,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newshub.sdsu.edu!flpi089.ffdc.sbc.com!
prodigy.net!flpi088.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi061.nbdc.sbc.com.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: SMPS ?
Lines: 12
MIME-Version: 1.0
Content-Type: text/plain;
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format=flowed;
charset="iso-8859-1";
reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <GDsOk.6399$be.5349@nlpi061.nbdc.sbc.com>
NNTP-Posting-Host: 70.143.34.184
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi061.nbdc.sbc.com 1225414246 ST000 70.143.34.184 (Thu, 30 Oct 2008 20:50:46 EDT)
NNTP-Posting-Date: Thu, 30 Oct 2008 20:50:46 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
[[PAPDCA[S@ERQXXKZOX_RXAUSXB@DTMNHWB_EYLJZ]BGIEL_NTKAH_[JTXDX_KI\VB]JBVMS^YT_G[CZVWAOS\DHFWEH]@KGXYHB_CMDSFABP^J[AHHRKARLE_JDBLJ\XA[JRMEI]MGJSPB\Y]^KG\@S^@VQKI_Q[G@@_ACSARASDEFLBJ]S\GFNTUAVBL
Date: Thu, 30 Oct 2008 19:50:45 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:3478

Hey Ken & Grumpy
I started a new thread from the 7.5 VAC xfmr, because the subject has drifted. You guys mentioned a DC component in pole pigs. Sometime ago I heard that if an AC circuit had too many switching power supplies on it, that would cause the power company all kinds of problems. What were or are the problems and what was the evidence and what did the power companies do to solve the problem?

--
Thanks & 73
Hank WD5JFR

From 8298976197899155864
X-Google-Thread: fc2a5,26a1d8720a5f76fb
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!feeder.erje.net!feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SMPS ?
Message-ID: <7g4lg4phsg2olnde8uirrrietb8rv1hq0t@4ax.com>
References: <GDsOk.6399$be.5349@nlpi061.nbdc.sbc.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 38

Date: Fri, 31 Oct 2008 07:19:09 +0200
NNTP-Posting-Host: 85.77.226.21
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1225430343 85.77.226.21 (Fri, 31 Oct 2008 07:19:03 EET)
NNTP-Posting-Date: Fri, 31 Oct 2008 07:19:03 EET
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:3479

On Thu, 30 Oct 2008 19:50:45 -0500, "Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote:

>Hey Ken & Grumpy
>I started a new thread from the 7.5 VAC xfmr, because the subject has
>drifted. You guys mentioned a DC component in pole pigs. Sometime ago
>I heard that if an AC circuit had too many switching power supplies on
>it, that would cause the power company all kinds of problems. What were
>or are the problems and what was the evidence and what did the power
>companies do to solve the problem?

There could be transformer core saturation problems if large half-wave rectifier systems are used. In Europe old televisions had only a half wave rectifier to generate the anode voltage for the tubes. Fortunately, since the users would plug in their televisions both ways, usually both half cycles were loaded within an area.

In a balanced three phase system the neutral current cancel out and the neutral wire is loaded only then the phases are not equally loaded. For this reason, the neutral wire is often smaller in large underground cables.

Any full wave rectifier system generate strong odd harmonic currents each time the capacitor is charged.

However, when each phase is loaded with switching mode power supplies, which generate string 3rd harmonics, these harmonics do not cancel, but instead the 3rd harmonic neutral currents from all three phases add up, possibly overloading the neutral wire.

For this reason, at least in Europe, large power supplies must have a power factor correction circuit to extend the conduction angle during each half-cycle.

Paul OH3LWR

From 3912875777193193836
X-Google-Thread: fc2a5,26a1d8720a5f76fb
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SMPS ?
Date: Fri, 31 Oct 2008 07:15:51 +0100 (CET)
Organization: Mostly In Piles
Lines: 74
Message-ID: <Xns9B482B1BA9592MDWN@194.177.96.78>
References: <GDsOk.6399$be.5349@nlpi061.nbdc.sbc.com>
NNTP-Posting-Host: UE+Rs2ub6UNDaZOzXBrhrQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Fri, 31 Oct 2008 06:15:51 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3480

Howdy,

You're correct. The problem is mainly the result of many single phase capacitor input power supplies distributed across a three phase system.

In a capacitor input power supply, the line current takes the form of narrow spikes, because the rectifiers only conduct when the line voltage is higher than the capacitor voltage. Many SMPS have a capacitor input bulk supply at the front end. So the power factor is low and there is much harmonic distortion which includes triplens 3rd 6th 9th... harmonics. also called zero sequence harmonics (they do not rotate.) As they add in the neutral of a three-phase four wire system difference between their half cycles is a DC component. You can see that half-wave input would be the worst as Paul mentioned.

The solution reduces THD and increases power factor. For single phase input power supplies is either a large inductor which causes the current to look more like a rectangle. Or active PFC which is usually a boost converter with no input capacitor and a control circuit that causes the envelope of the current pulses follows the shape of the line voltage. Most often the active PFC is used but in low power supplies I've seen the big inductor approach taken. There are also other approaches like "valley fill" which force current to be drawn when then line is less than that needed to charge the capacitor. I don't see these used much.

Before PFC was common this was a huge problem in places

with many crappy PC and VDT terminal power supplies (like
big office buildings full of VT100's.) Sometimes the
neutral conductor which was sized smaller than the phases
because they expect little imbalance would burn up.
Sometimes the DC component would saturate big transformers
and they would fry.

Triplens can be blocked by ungrounded-wye or delta
transformer connections which keeps them out of the rest
of the facility but they still do their dirty work on
the secondary side. So it's better to not draw distorted
line current. With three phase input power supplies
a simple boost converter without the PFC control circuit
improve the PF to about 0.96 and reduce the THD to eh,
maybe 25% or less. The current in phase leg will be
rectangular.

This explanation could be too simple. And as always
some of it might be wrong! But does it answer your
question?

73
Grumpy

"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in
news:GDsOk.6399$be.5349@nlpi061.nbdc.sbc.com:

> Hey Ken & Grumpy
> I started a new thread from the 7.5 VAC xfmr, because the subject has
> drifted. You guys mentioned a DC component in pole pigs. Sometime ago
> I heard that if an AC circuit had too many switching power supplies on
> it, that would cause the power company all kinds of problems. What were
> or are the problems and what was the evidence and what did the power
> companies do to solve the problem?
>

From -4229162117830514540
X-Google-Thread: fc2a5,26a1d8720a5f76fb
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!nx02.iad.newshosting.com!newshosting.com!
198.186.194.249.MISMATCH!transit3.readnews.com!news-out.readnews.com!news-
xxxfer.readnews.com!news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SMPS ?
Date: Fri, 31 Oct 2008 06:44:02 +0000 (UTC)

Organization: MGT Consulting
Lines: 13
Message-ID: <slrnggla82.onq.gsm@cable.mendelson.com>
References: <GDsOk.6399$be.5349@nlpi061.nbdc.sbc.com>
<Xns9B482B1BA9592MDWN@194.177.96.78>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-138-75-80.bb.netvision.net.il
X-Trace: max.inside.misty.com 1225435442 26235 89.138.75.80 (31 Oct 2008 06:44:02 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Fri, 31 Oct 2008 06:44:02 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1030

Grumpy The Mule wrote:
> This explanation could be too simple. And as always
> some of it might be wrong! But does it answer your
> question?

Thanks for your answer and explanation. This leads me to ask,
"Is there anything WE (the consumer) can do about it and if so, what?"

Thanks,

Geoff.
--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM

From -7254234531186215946
X-Google-Thread: fc2a5,660f7cb852a5acc5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v13g2000pro.googlegroups.com!not-for-mail
From: Philippe Signoret <philippe.signoret@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Building a repeater
Date: Thu, 30 Oct 2008 23:51:25 -0700 (PDT)
Organization: http://groups.google.com
Lines: 12
Message-ID: <b34a78e9-d871-4fe1-8b92-893eabd4e21a@v13g2000pro.googlegroups.com>
References: <915780b1-9cf5-4fb3-ab57-248fad2a73f3@j68g2000hsf.googlegroups.com>
     <61917b9f-38f3-4e22-83cd-fc9547a91c70@d31g2000hsg.googlegroups.com>
NNTP-Posting-Host: 189.177.163.93
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1225435885 16608 127.0.0.1 (31 Oct 2008 06:51:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 31 Oct 2008 06:51:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v13g2000pro.googlegroups.com; posting-host=189.177.163.93;

```
     posting-account=I2rbaQoAAAAN7tjNYptGD4OHnvF2flKH
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.3)
     Gecko/2008092417 Firefox/3.0.3 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3482

> You may have a ground loop problem. I suggest the use of an isolation
> transformer between the transmitter and receiver. Also pay attention
> to signal levels, an attenuator be may be required to achive the
> proper audio input level to the transmitter.
>
> Jimmie

Thanks Jimmie. I'll check that and let you know. If I can, I'll run
some tests at my university where I can use the oscilloscope. I'll be
sure to get some images in case the transformer doesn't work.

Philippe



From -2416580101367705084
X-Google-Thread: fc2a5,660f7cb852a5acc5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 31 Oct 2008 09:50:56 -0500
From: Doug Smith <joe@somewhere.invalid>
Subject: Re: Building a repeater
Newsgroups: rec.radio.amateur.homebrew
References: <915780b1-9cf5-4fb3-ab57-248fad2a73f3@j68g2000hsf.googlegroups.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <d5CdnRT6g57MhpbUnZ2dnUVZ_judnZ2d@earthlink.com>
Date: Fri, 31 Oct 2008 09:50:57 -0500
Lines: 40
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 4.153.66.85
X-Trace: sv3-9jwPQWS1pkmBc0j7foFZqAjcEIYHUx5/
S4Qeme0Axp61MZToecHmr4VY0Lg+FxIwE4Y4p0XNcEpHnJO!e+eBYCcRZR2BTmQk5GRl4k/Cwt5/
wmclWXNp6qpnwCzQfJe7y/LhT0fkVfIfrD1onbnjfxzHOBkc!VYvIs/s=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3484

On Thu, 30 Oct 2008 07:57:25 -0700, Philippe Signoret wrote:

> Hello all.
```

>
> I am trying to build a simple repeater system. This is how I have it set
> up:
>
> Kenwood TK-7102 receives on on frequency #1 and is connected to Yaesu
> FT-1802 which transmits on frequency #2.
>
> The Carrier Operated Relay output of the Kenwood is connected to the PTT
> input on the Yaesu. This works perfectly.
>
> The problem is with the audio. I tried connecting the audio output to
> the Mic input on the Yaesu. The result is the audio with a horrible,
> high-pitched warble in the background. Any ideas?

I would suggest the audio output level is way too high for the mic input of the Yaesu. Turning down the volume control on the Kenwood will bring down the level of the desired audio of the station being repeated, but there's probably some amount of inherent noise in the Kenwood's audio amplifier that isn't affected by the volume control. Since the Yaesu's audio input is far more sensitive than the Kenwood's speaker, you're hearing that noise.

A simple voltage divider would fix this. To toss out some values, maybe a 100-ohm resistor on the grounded side, in series with a 10,000-ohm resistor on the "hot" side, and tap the audio to the Yaesu across the 100-ohm resistor. I don't guarantee you it'll work but resistors are cheap & it's worth trying.

Do you have any method of ensuring the Yaesu won't get locked in transmit? (is there a timeout timer function?) Especially if you're using carrier squelch (not subtone), a spurious signal could leave the carrier-operated relay open and lock the Yaesu in transmit for a long time - possibly damaging the power amplifier. Not having a timeout may also be illegal in some countries.

--
/home/w9wi/.sig

From 8151505651813289753
X-Google-Thread: fc2a5,660f7cb852a5acc5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 31 Oct 2008 09:50:57 -0500
From: Doug Smith <joe@somewhere.invalid>
Subject: Re: Building a repeater
Newsgroups: rec.radio.amateur.homebrew
References: <915780b1-9cf5-4fb3-ab57-248fad2a73f3@j68g2000hsf.googlegroups.com>
User-Agent: Pan/0.132 (Waxed in Black)
MIME-Version: 1.0

Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <NqadnThhq7zPhpbUnZ2dnUVZ_j6dnZ2d@earthlink.com>
Date: Fri, 31 Oct 2008 09:50:58 -0500
Lines: 40
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 4.153.66.85
X-Trace: sv3-xXGIMPG3DL1HuprzZmIMFHE7Gae9f/
uiR5HlPCcqYFeZ2rDRuSDBG0zsRXai9MAZxDbZ7hKJP2NHlMV!jiw9fTVibS+bRfksRlGM9lX/
Lh2bDmzvuQKfeqJIyHi5mNihkSm2fkSbZ2VjWGAsVW0/NZaouegP!PbsRXT4=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3485

On Thu, 30 Oct 2008 07:57:25 -0700, Philippe Signoret wrote:

> Hello all.
>
> I am trying to build a simple repeater system. This is how I have it set up:
>
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>
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--
/home/w9wi/.sig

```
From 2204194134108675530
X-Google-Thread: fc2a5,26a1d8720a5f76fb
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
feeder.erje.net!news.buerger.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SMPS ?
Date: Fri, 31 Oct 2008 17:17:38 +0100 (CET)
Organization: Mostly In Piles
Lines: 69
Message-ID: <Xns9B4868B926B7C2MDWN@194.177.96.78>
References: <GDsOk.6399$be.5349@nlpi061.nbdc.sbc.com>
<Xns9B482B1BA9592MDWN@194.177.96.78> <slrnggla82.onq.gsm@cable.mendelson.com>
NNTP-Posting-Host: UE+Rs2ub6UNDaZOzXBrhrQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Fri, 31 Oct 2008 16:17:38 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1035
```

Howdy,

It's something to ponder. It appears there's not
much the individual consumer can do.

I suppose a person could direct their purchases toward
devices that don't add to the problem. Like buying
PC power supplies with PFC. Early CF bulbs were pretty
bad but they're better now, though incandescent bulbs
will likely always be better in this one regard. Some
thyristor controls are still horrible, like dimmers and
thermostats. But I didn't see how the consumer could know
this.

Being aware of the energy savings when considering the
price of a product is something the consumer can do.
If it doesn't make economic sense then Ok, don't buy it.
But consider the cost of ownership as well when making
the decision.

Working to have power factor, total harmonic distortion
and efficiency ratings required on the equipment name
plate along with volts, amperes and watts. Is something
individual consumers could do. Sometimes the industry
needs a little nudge.

Keeping equipment in good repair can help. We nearly burned two taps off a 500KVA transformer at work. It was installed improperly which took some time to discover by way of insanely high THD under load. All that time the transformer was burning up power heating the taps and reducing efficiency of the equipment it supplied. This applies to farms and homes as well. Might prevent a fire as well.

From a ham perspective. Hmmm. perhaps build a PFC power supply for that big linear amplifier! Or use a PFC battery charger and run the shack off battery power

One last note, high PFC does not insure low THD but they usually go hand-in-hand because of the methods employed. A person could build a device to provide excellent PF and crappy THD. I've never seen any product that does this but it is possible.

I'm sorry I can't offer more or better suggestions.

73
Grumpy

gsm@mendelson.com (Geoffrey S. Mendelson) wrote in
news:slrnggla82.onq.gsm@cable.mendelson.com:

> Grumpy The Mule wrote:
>> This explanation could be too simple. And as always
>> some of it might be wrong! But does it answer your
>> question?
>
> Thanks for your answer and explanation. This leads me to ask,
> "Is there anything WE (the consumer) can do about it and if so, what?"
>
> Thanks,
>
> Geoff.

```
From 3965476540279242036
X-Google-Thread: fc2a5,660f7cb852a5acc5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!news.bellsouth.net!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
```

Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <915780b1-9cf5-4fb3-ab57-248fad2a73f3@j68g2000hsf.googlegroups.com>
<NqadnThhq7zPhpbUnZ2dnUVZ_j6dnZ2d@earthlink.com>
Subject: Re: Building a repeater
Lines: 20
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <SBHOk.1707$Jv2.242@nwrddc01.gnilink.net>
Date: Fri, 31 Oct 2008 17:52:50 GMT
NNTP-Posting-Host: 71.110.229.227
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1225475570 71.110.229.227 (Fri, 31 Oct 2008 13:52:50 EDT)
NNTP-Posting-Date: Fri, 31 Oct 2008 13:52:50 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3487

There are small basic controller boards that you might find helpful for dealing with several issues.

Other issues to consider:

Think about a full time fan trained right on the PA and power supply and program TOT to 4 min max. in the FT.
Even then you may find your mobile getting way too hot even on the low power settings. Even to the point of melting solder.   The heat may not travel fast enough from the device into the heat sink and build up when higher power levels are selected. This winds up heating up the board too much
Also note the transmitter is spec'd at a drifty 10ppm.

Possible RF energy from the transmitter getting into the RX audio and thus into the TX audio.

Hams actually put more stress on a repeater than commercial users.

http://infotech.awardspace.com/

From -6397311058121349\81
X-Google-Thread: fc2a5,4720c8a3f6e21a8b,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail

NNTP-Posting-Date: Fri, 31 Oct 2008 17:45:52 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: weller EC2002C soldering station
Date: Fri, 31 Oct 2008 18:47:28 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
Lines: 9
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.225.35.56
X-Trace: sv3-A9LY2G9Z6lff1bK/fRu1XDCR7rloNfK02Me3kZfnnWIr7TgGZ3a8Dz/
tog3PR9Qa9DNNCBWWX1zPA8G!
PlDuH4hfehqq2S3q+zW8M8MfgOz06vDVOYUPwmJM6tiZoL5Y4UKctWTPlKs+vvA4wEYsCDHILn0D!
uI8InPhwRn6WyRnL/+0Iw48Gl9GQkQyltl+rdA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3488

I was given this Weller soldering station. The display is not working. It does flash 888 on it when first turned on. The tip does heat up, but I have not determined if I can vary the heat or not. Also have an extra soldering pencle that plugs in it. Changed them to see if the display would light, but it didnot. Any hints on it ?

Also how do I open it up ? Screws under the 4 rubber feet ?

From -2611688151498099789
X-Google-Thread: fc2a5,26a1d8720a5f76fb
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!v16g2000prc.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SMPS ?
Date: Fri, 31 Oct 2008 19:09:41 -0700 (PDT)
Organization: http://groups.google.com
Lines: 83
Message-ID: <19ed4714-2415-4987-bfc1-0097ab785a67@v16g2000prc.googlegroups.com>
References: <GDsOk.6399$be.5349@nlpi061.nbdc.sbc.com>
<Xns9B482B1BA9592MDWN@194.177.96.78>
     <slrnggla82.onq.gsm@cable.mendelson.com>
<Xns9B4868B926B7C2MDWN@194.177.96.78>
NNTP-Posting-Host: 155.178.6.10

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1225505381 5672 127.0.0.1 (1 Nov 2008 02:09:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 1 Nov 2008 02:09:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v16g2000prc.googlegroups.com; posting-host=155.178.6.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3489

On Oct 31, 12:17=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> Howdy,
>
> It's something to ponder. =A0It appears there's not
> much the individual consumer can do.
>
> I suppose a person could direct their purchases toward
> devices that don't add to the problem. =A0Like buying
> PC power supplies with PFC. =A0Early CF bulbs were pretty
> bad but they're better now, though incandescent bulbs
> will likely always be better in this one regard. =A0Some
> thyristor controls are still horrible, like dimmers and
> thermostats. =A0But I didn't see how the consumer could know
> this.
>
> Being aware of the energy savings when considering the
> price of a product is something the consumer can do.
> If it doesn't make economic sense then Ok, don't buy it.
> But consider the cost of ownership as well when making
> the decision.
>
> Working to have power factor, total harmonic distortion
> and efficiency ratings required on the equipment name
> plate along with volts, amperes and watts. =A0Is something
> individual consumers could do. =A0Sometimes the industry
> needs a little nudge.
>
> Keeping equipment in good repair can help. =A0We nearly
> burned two taps off a 500KVA transformer at work. =A0It
> was installed improperly which took some time to discover
> by way of insanely high THD under load. =A0All that time
> the transformer was burning up power heating the taps
> and reducing efficiency of the equipment it supplied.
> This applies to farms and homes as well. =A0Might prevent
> a fire as well.
>
> From a ham perspective. =A0Hmmm. =A0perhaps build a PFC power
> supply for that big linear amplifier! =A0Or use a PFC battery
> charger and run the shack off battery power
```

>
> One last note, high PFC does not insure low THD but they
> usually go hand-in-hand because of the methods employed.
> A person could build a device to provide excellent PF and
> crappy THD. =A0I've never seen any product that does this
> but it is possible.
>
> I'm sorry I can't offer more or better suggestions.
>
> 73
> Grumpy
>
> g...@mendelson.com (Geoffrey S. Mendelson) wrote innews:slrnggla82.onq.gs=
m@cable.mendelson.com:
>
>
>
> > Grumpy The Mule wrote:
> >> This explanation could be too simple. =A0And as always
> >> some of it might be wrong! =A0But does it answer your
> >> question?
>
> > Thanks for your answer and explanation. This leads me to ask,
> > "Is there anything WE (the consumer) can do about it and if so, what?"
>
> > Thanks,
>
> > Geoff.- Hide quoted text -
>
> - Show quoted text -

PF and THD can be a real problem when you generate your own
electricity.
About three years ago we installed a new UPS at work that went crazy
whenever we switch from line to generator. The installers said we
would have to install a generator 4X as large as the one we have to
take care of the problem. Considering our present generator was a
120KW unit going to 500KW was out of the question. We measured the PF
and THD for the input to the UPS and it was ridiculously high but the
installers insisted this was normal for the size generator we had.
Long story short we kicked them and their UPS out and got a different
one that worked flawlessly with our equipment.

Jimmie

```
From 3739051374202446587
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!
tmp-post01.iad!news.highwinds-media.com!not-for-mail
```

Message-ID: <490BECC9.3070005@NETTALLY.COM>
Date: Sat, 01 Nov 2008 01:44:41 -0400
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To: Ralph Mowery <rmowery28146@earthlink.net>
Subject: Re: weller EC2002C soldering station
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
In-Reply-To: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 26
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
NNTP-Posting-Host: 70.121.205.178
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:1039

Ralph Mowery wrote:
> I was given this Weller soldering station. The display is not working. It
> does flash 888 on it when first turned on. The tip does heat up, but I have
> not determined if I can vary the heat or not. Also have an extra soldering
> pencle that plugs in it. Changed them to see if the display would light,
> but it didnot. Any hints on it ?
>
> Also how do I open it up ? Screws under the 4 rubber feet ?
>
>

I have same model unit with same exact problem. Yest it does regulate
the temperature. I haven't figured out the display problem either and
the thermistor in the iron seems to "ohm out" properly. Let me know what
you find. I never could find schematics for it. I used it just today on
a PIC project. Shame to throw it out, but I would like to read the
temperature.

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From 3439476365984764582
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!

```
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 01 Nov 2008 09:13:07 -0500
Date: Sat, 01 Nov 2008 14:13:06 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
     <jCrNk.6137$be.3381@nlpi061.nbdc.sbc.com>
<Xns9B44B5D59633D2MDWN@194.177.96.78>     <N3uNk.6144$be.293@nlpi061.nbdc.sbc.com>
<Xns9B45B5CCECE822MDWN@194.177.96.78>
<OQNNk.6237$be.3542@nlpi061.nbdc.sbc.com> <Xns9B465D4868E62MDWN@194.177.96.78>
<1c8cabda-29c9-4f5e-b70b-970fc328590a@r37g2000prr.googlegroups.com> <KO-
dnRkE6o3_yJXUnZ2dnUVZ8uWdnZ2d@pipex.net> <jW3Ok.6303$be.3044@nlpi061.nbdc.sbc.com>
In-Reply-To: <jW3Ok.6303$be.3044@nlpi061.nbdc.sbc.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <f86dnR2LktNu_pHUnZ2dnUVZ8sXinZ2d@pipex.net>
Lines: 36
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 85.210.100.110
X-Trace: sv3-Cc8ARypKP8gPtav92eLrkp+Ymi5QLU7b9wfrPEOBT+5xl8Ny1tiDY55/
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X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3491
```

Henry Kolesnik wrote:

> Do you have GloBar resistors in the UK? These are high cold and go lo
> with current. they used to be very popular in TVs over here.
>

=======================================

Haven't come across these ,at least not under this name. I understand they are Power NTC resistors .
Wonder if these would heat-up quickly enough within the 'start-up period' to prevent a current surge.

In the meantime I have tested my Astron RS-50A PSU.
When switched on at 230 V AC (50hz) it sometimes trips the circuit breaker and is rather heavily buzzing ,but when the voltage is increased to that value from zero with a variac the buzzing level is lower .
No-load current is 0.69 Ampere , Power is 28 watts as measured with a multifunction energy monitor.
Having had the unit running no-load for 1 day the buzzing level is acceptable with the transformer being luke warm.

I now intend to include a simple soft start unit (12V relay with 1-2

seconds switch-on delay which shorts a series 50 Ohms-50W resistor (from
junk box) in the primary transformer winding line.

Comments on quality of unit :
-Insulation between primary and secondary winding of transformer looks
rather 'iffy'

- Output connection posts are of the type normally specified for 30
Amperes max.
I shall replace these by more heavy duty posts.

Having done that I intend to test the unit on rated capacity with 4
(approx 1 Ohm) resistors made of iron fencing wire , put in a bucket
with water.

Frank   GM0CSZ / KN6WH

```
From -7130755084638831676
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2!aioe.org!not-for-
mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Date: Sat, 1 Nov 2008 18:01:34 +0100 (CET)
Organization: Mostly In Piles
Lines: 75
Message-ID: <Xns9B49702AFCAB82MDWN@194.177.96.78>
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
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<OQNNk.6237$be.3542@nlpi061.nbdc.sbc.com> <Xns9B465D4868E62MDWN@194.177.96.78>
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<f86dnR2LktNu_pHUnZ2dnUVZ8sXinZ2d@pipex.net>
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X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Sat, 1 Nov 2008 17:01:34 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1041
```

Howdy,

An NTC (or two) should work well in the transformer primary.
It's a common means for reducing inrush at the input of SMPS.
Works fine for linear supplies too. There are numerous
manufacturers of these world wide.
http://www.rti-corp.com/Electronics/surggard.htm

Typical numbers for magnetizing current are 1-5% of the rated load at steady state. And as much as 10-20 times the load current for inrush. I stated 5 times for inrush earlier. It's more than that for commodity (cheaply made) type transformers.

You probably have some load on the transformer, bias power for the regulator, bleeder resistors and so forth. So I'm guessing the idling current is more than the magnetizing current alone. If the transformer is designed for ~1KVA 50A*13.6V times some factor for the regulator efficiency say 0.7 at full load, that's about 970W, then 28W loss at no load isn't unreasonably high assuming the core loss equals the copper loss at full load.

The iffy insulation is a good argument for having the output return of the power supply securely bonded to earth ground.

Fence wire in water should make an excellent load. I've never heard of anyone testing an RS-50 at full load. You might want to sneak up on it. A working 25A supply is better than a dead 50A supply!

73
Grumpy

Highland Ham <rfburns@allbands.net> wrote in news:f86dnR2LktNu_pHUnZ2dnUVZ8sXinZ2d@pipex.net:

> =======================================
> Haven't come across these ,at least not under this name. I understand they are Power NTC resistors .
> Wonder if these would heat-up quickly enough within the 'start-up period' to prevent a current surge.
>
> In the meantime I have tested my Astron RS-50A PSU.
> When switched on at 230 V AC (50hz) it sometimes trips the circuit breaker and is rather heavily buzzing ,but when the voltage is increased to that value from zero with a variac the buzzing level is lower .
> No-load current is 0.69 Ampere , Power is 28 watts as measured with a multifunction energy monitor.
> Having had the unit running no-load for 1 day the buzzing level is acceptable with the transformer being luke warm.
>
> I now intend to include a simple soft start unit (12V relay with 1-2 seconds switch-on delay which shorts a series 50 Ohms-50W resistor (from junk box) in the primary transformer winding line.
>
> Comments on quality of unit :

> -Insulation between primary and secondary winding of transformer looks
> rather 'iffy'
>
> - Output connection posts are of the type normally specified for 30
> Amperes max.
> I shall replace these by more heavy duty posts.
>
> Having done that I intend to test the unit on rated capacity with 4
> (approx 1 Ohm) resistors made of iron fencing wire , put in a bucket
> with water.
>
> Frank   GM0CSZ / KN6WH
>

From -2156894622644918411
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
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From: Jim Higgins <invalid@invalid.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Sender: Jim Higgins <invalid@invalid.invalid>
Reply-To: Jim Higgins <invalid@invalid.invalid>
Message-ID: <c64pg49chk0hm2kr1l60kc1o46tt228qf0@4ax.com>
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com> <jCrNk.6137$be.3381@nlpi061.nbdc.sbc.com> <Xns9B44B5D59633D2MDWN@194.177.96.78>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 39
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Sat, 01 Nov 2008 17:31:22 +0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:1042

On Tue, 28 Oct 2008 00:52:28 +0100 (CET), Grumpy The Mule
<s_foonly@foo.bar> wrote:

>Hmmm!
>
>Bolts through the laminations should have insulators
>(usually fiber board washers) under the heads. Just
>one end will do, there's no need for them under the
>nuts. But shoulder washers are best so the bolts don't
>short any laminations together deeper into the core.

>
>If uninsulated the bolt can form a poorly coupled shorted
>turn and that in itself can cause noise, heating of the
>core and the hardware as well as spray flux around where
>you wouldn't have expected any. How bad it is depends
>on the locations of the holes in the core.
>
>A bead of weld across the ends of the laminations won't add
>to the eddy currents significantly. Steel isn't a great
>conductor. The weld's cross section is small and it's very
>poorly coupled to the primary.
>
>Why would a weld across the laminations let line spikes
>though?

It's not just the laminations that make noise. The windings can vibrate if they're not locked in place with transformer varnish or epoxy. No amount of tightening the laminations will help if the windings are free to vibrate. This is probably more likely in larger higher power transformers (multiple kW) than in a filament or screen supply transformer, but it can happen.

Also, depending on how much magnetic leakage your core has you can couple to the steel walls of the cabinetry the transformer is housed in if you don't maintain adequate spacing from the walls, in which case the steel wall and the transformer can vibrate and make noise even though no parts on the transformer are loose.

From -1028669769312669006
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!news.mixmin.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Date: Sat, 1 Nov 2008 22:10:44 +0100 (CET)
Organization: Mostly In Piles
Lines: 42
Message-ID: <Xns9B499A6AC3192MDWN@194.177.96.78>
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com> <jCrNk.6137$be.3381@nlpi061.nbdc.sbc.com> <Xns9B44B5D59633D2MDWN@194.177.96.78> <c64pg49chk0hm2kr1l60kc1o46tt228qf0@4ax.com>
NNTP-Posting-Host: nJ/CDiF0r8KQITyN+dcqhw.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Sat, 1 Nov 2008 21:10:44 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1043

That's a good point. The filthy leakge inductance will be
spraying its flux all about. But there are things we can
do a to contain it.

A belly band around the winding (but not though the core) helps.
End bells (covers) bolted down over the windows work too.

There may also be fringing flux spewing out of the unavoidable
gaps if it's a butt stack lamination core. Interleaving the
laminations will help.

I've done all of that on a design with the transformer mounted
directly beneath the neck of the CRT in a video terminal.
A requirment of the project manager because he feared
SMPS noise and demanded a linear power supply. Of course
everything had to be jammed into the smallest possible
enclosure and a mu metal shield was deemed too expensive :P

Jim Higgins <invalid@invalid.invalid> wrote in
news:c64pg49chk0hm2kr1l60kc1o46tt228qf0@4ax.com:

> It's not just the laminations that make noise. The windings can
> vibrate if they're not locked in place with transformer varnish or
> epoxy. No amount of tightening the laminations will help if the
> windings are free to vibrate. This is probably more likely in larger
> higher power transformers (multiple kW) than in a filament or screen
> supply transformer, but it can happen.
>
> Also, depending on how much magnetic leakage your core has you can
> couple to the steel walls of the cabinetry the transformer is housed
> in if you don't maintain adequate spacing from the walls, in which
> case the steel wall and the transformer can vibrate and make noise
> even though no parts on the transformer are loose.
>
>

From -4366036590071792440
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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feeder.erje.net!news.mixmin.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: weller EC2002C soldering station
Date: Sat, 1 Nov 2008 22:23:13 +0100 (CET)
Organization: Mostly In Piles
Lines: 27
Message-ID: <Xns9B499C88C85BC2MDWN@194.177.96.78>
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
<490BECC9.3070005@NETTALLY.COM>
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X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Sat, 1 Nov 2008 21:23:13 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:1044

I think something is getting hung during the self-test. It should flash 888 for two seconds at start-up. The sensor is a platinum RTD. Pretty fancy for a soldering iron! Too bad this model has earned a reputation for being unreliable.

There's a "tech sheet" with trouble shooting info but I've never found it online.

We had one of these irons at work and replaced it with a WTCP station.

RFI-EMI-GUY <Rhyolite@NETTALLY.COM> wrote in
news:490BECC9.3070005@NETTALLY.COM:

> I have same model unit with same exact problem. Yest it does regulate
> the temperature. I haven't figured out the display problem either and
> the thermistor in the iron seems to "ohm out" properly. Let me know
> what you find. I never could find schematics for it. I used it just
> today on a PIC project. Shame to throw it out, but I would like to
> read the temperature.

From 6852509236564807736
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Path: g2news1.google.com!news1.google.com!news.glorb.com!news2!news.cse.ohio-state.edu!pitt.edu!egsner!news.cirr.com!sdf.lonestar.org!sdog2008
From: Stray Dog <sdog2008@sdf.lonestar.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Date: Sat, 1 Nov 2008 22:30:23 +0000

Organization: Central Iowa (Model) Railroad, Plano, TX, USA
Lines: 268
Message-ID: <Pine.NEB.4.64.0811012226080.27995@sdf.lonestar.org>
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
 <jCrNk.6137$be.3381@nlpi061.nbdc.sbc.com> <Xns9B44B5D59633D2MDWN@194.177.96.78>
 <N3uNk.6144$be.293@nlpi061.nbdc.sbc.com> <Xns9B45B5CCECE822MDWN@194.177.96.78>
 <OQNNk.6237$be.3542@nlpi061.nbdc.sbc.com> <Xns9B465D4868E62MDWN@194.177.96.78>
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X-Trace: chessie.cirr.com 1225578625 6409 192.94.73.1 (1 Nov 2008 22:30:25 GMT)
X-Complaints-To: abuse@cirr.com
NNTP-Posting-Date: Sat, 1 Nov 2008 22:30:25 +0000 (UTC)
In-Reply-To: <Xns9B46BD79DEF452MDWN@194.177.96.78>
Xref: g2news1.google.com rec.radio.amateur.homebrew:1045

On Thu, 30 Oct 2008, Grumpy The Mule wrote:

> Date: Thu, 30 Oct 2008 01:37:32 +0100 (CET)
> From: Grumpy The Mule <s_foonly@foo.bar>
> Newsgroups: rec.radio.amateur.homebrew
> Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
>
>
> Howdy,
>
> I think I would measure the line current with no load on the
> transformer. Then let it idle a while, maybe three hours, then
> give it the finger test. If it's not warm and the magnetizing
> current is small, I'd then run it with a heavy load and check
> it again. If it's not stinky hot (the winding is below about
> 110C more or less) I'd say it's OK at 50Hz and the breaker
> tripping is from the inrush current.
>
> There's some inrush current charging the core.

Don't forget that the inrush current is also going into at least one and
maybe two high capacity electrolytic capacitors that, instantaneously
before initial charging are going to look like zero ohms. Peak current, at
say peak AC volatage when the on switch is turned on, is going to be
higher than you think.

The manufaturers are just too cheap to put any kind of Soft-start
circuitry in to limit this inrush.

  That's not a
> defect though, it's just how things work. The first half
> cycle peak might be five or more times the peak magnetizing
> current. The inrush current charging the capacitors is more

> prolonged. Depending on the curve of the circuit breaker one
> or both might be to blame.
>
> So if the soft-start circuit works for you just monitor the
> temperature of the transformer. If it's reasonable don't
> worry. Then look elsewhere for the cause of the buzzing.
> The cabinet sheet metal you should be able to quiet with
> the palm of you hand...
>
> Ok, here's one crazy idea. The inrush current is mostly
> on the first half cycle so it's magnetizing something, maybe
> the cabinet who knows what, which is then a more efficient
> transducer. If you soft start it either doesn't magnetizing
> the part or perhaps degausses it.
>
>
> 73
>
>
> Highland Ham <rfburns@allbands.net> wrote in news:KO-
> dnRkE6o3_yJXUnZ2dnUVZ8uWdnZ2d@pipex.net:
>
>> ==============
>> Followed this thread with great interest .
>> Reason : I have an Astron RS-50A , 13.8V -50 Amperes unit for 220V-AC
>> input which is buzzing heavily. Upon switch-on the group circuit breaker
>> in the house sometimes trips due to the high switch-on current surge .
>> This can be overcome by adding a soft start circuit which initially puts
>> a say 25 Ohms-50Watts resistor in series with the primary transformer
>> winding ,shorting this resistor after a second or so.
>>
>> However I fear that the main reason for the buzzing is that the
>> transformer (of US origin) was designed for 60 Hz ,whereas here in the
>> UK (like in all European countries) the supply frequency is 50 Hz.
>> Can someone on this NG please confirm/reject my suspicion.
>>
>> Another possible reason could be that the cabinet sheet metal which is
>> very close to the transformer is vibrating (transducer effect) .
>>
>>
>> TIA for any constructive advice/opinion
>>
>> Frank   GM0CSZ / KN6WH
>>
>
>

```
From 9014508512749672731
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
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nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 01 Nov 2008 21:03:10 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
<490BECC9.3070005@NETTALLY.COM>
Subject: Re: weller EC2002C soldering station
Date: Sat, 1 Nov 2008 22:04:44 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Response
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <OfudnYjf-9jDl5DUnZ2dnUVZ_tXinZ2d@earthlink.com>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.225.35.56
X-Trace: sv3-ce7KjQjHhqE1MkL95dvIy/rH7jZlP+h5vr0gECnAgl2/
SFXFmnRP3V1GAWxRQJTVHe6rC4azu48V0zk!
pnRTs5D0g14HJIO0WufYpGtIoT0O+8fdyA8XEjrSwn8Py4LTjCbvXlBUlgwjvWLsoY8NChlOy+X5!ujj/
6ngwmAuj451fxDxb9pKcrBZDcCCvWaVh7w==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

```
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1046


"RFI-EMI-GUY" <Rhyolite@NETTALLY.COM> wrote in message
news:490BECC9.3070005@NETTALLY.COM...
> I have same model unit with same exact problem. Yest it does regulate the
> temperature. I haven't figured out the display problem either and the
> thermistor in the iron seems to "ohm out" properly. Let me know what you
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with them.  Oh well, it was free and is a good soldering iron even without
the display.  I do have a couple of spare parts for it also.

de KU4PT





From -1037407578941247644
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!e38g2000prn.googlegroups.com!not-for-
mail
From: charrid <richfur@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Date: Sun, 2 Nov 2008 01:12:49 -0800 (PST)
Organization: http://groups.google.com
Lines: 25
Message-ID: <7ac61248-af73-4756-bb8c-521aed9fb5eb@e38g2000prn.googlegroups.com>
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
     <jCrNk.6137$be.3381@nlpi061.nbdc.sbc.com>
<Xns9B44B5D59633D2MDWN@194.177.96.78>
     <N3uNk.6144$be.293@nlpi061.nbdc.sbc.com>
<Xns9B45B5CCECE822MDWN@194.177.96.78>
     <OQNNk.6237$be.3542@nlpi061.nbdc.sbc.com>
<Xns9B465D4868E62MDWN@194.177.96.78>
     <1c8cabda-29c9-4f5e-b70b-970fc328590a@r37g2000prr.googlegroups.com>
     <KO-dnRkE6o3_yJXUnZ2dnUVZ8uWdnZ2d@pipex.net>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1225617169 5038 127.0.0.1 (2 Nov 2008 09:12:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 2 Nov 2008 09:12:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e38g2000prn.googlegroups.com; posting-host=90.177.201.205;
     posting-account=4IFC0AoAAACvF_vvbWJ69M9qNKLCbX7x
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.3)
     Gecko/2008092417 Firefox/3.0.3,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1047

On Oct 29, 1:21=A0pm, Highland Ham <rfbu...@allbands.net> wrote:

> However I fear that the main reason for the buzzing is that the
> transformer (of US origin) was designed for 60 Hz ,whereas here in the
> UK (like in all European countries) the supply frequency is 50 Hz.
> Can someone on this NG please confirm/reject my suspicion.
>
> Another possible reason could be that the cabinet sheet metal which is
> very close to the transformer is vibrating (transducer effect) .
>
> TIA for any constructive advice/opinion
>
> Frank =A0 =A0 GM0CSZ / KN6WH

I can confirm the 50/60Hz problem. Have been moving line powered equipment (including microwave ovens, Astron P/S, and more - even real Wahl hair clipper) between US/Canada and Europe for over 10 years and found the increased level of buzz when running 60Hz eqpt on 50Hz in practically all cases. My Astron P/S is just a 4A unit and the buzz is bearable. Other stuff ranges from OK to loud like hell.

73,
Rich OK8RF/VE3FSF

From 951717963617039337
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!40g2000prx.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Date: Sun, 2 Nov 2008 11:43:53 -0800 (PST)
Organization: http://groups.google.com
Lines: 29
Message-ID: <95c53136-a7b1-4293-aeb2-225e0024a77c@40g2000prx.googlegroups.com>
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>

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NNTP-Posting-Host: 76.226.99.187
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1225655034 29099 127.0.0.1 (2 Nov 2008 19:43:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 2 Nov 2008 19:43:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 40g2000prx.googlegroups.com; posting-host=76.226.99.187;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1048
```

On Oct 25, 12:25 pm, raypsi <RBorow...@gmail.com> wrote:

> Hey all:
>
> I tore down a transformer I got from ebay it was a Zenith TV power
> transformer from days gone by. Re wound it with 17AWG wire on the
> secondary and primary. It powers up my 4-1000A filament nicely with
> 7.25VAC from 120VAC mains. I used a penta-filar winding on the
> secondary. Shimmed the bobbin in the core window with some 1/8 thick
> virgin teflon. Epoxied the windings to the bobbin. This was a 240VA
> transformer and now is a 83watt buzzer / 157watt filament transformer.
>
> So what is the cheapest I can gits away with sealing these laminations
> from buzzing, I used up all my epoxy sealing the windings.
>
> 73
>
> n8zu

I finally got around to clamping the transformer down with grade 8, 1/4inch bolts and nuts That didn't help, luckily I found my 3 hour epoxy, ran the transformer for 3 hours straight to heat it up, took the bolts out and with a putty knife slapped on some microwave heated epoxy on the lams. That took the buzz down to below the level of the fan noise. In dead silence you can still hear it. Nowhere can you feel the buzz.

73

n8zu

```
From 3237738307742984811
X-Google-Thread: fc2a5,a5480198acc23f0,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
```

NNTP-Posting-Date: Mon, 03 Nov 2008 05:01:52 -0600
Date: Mon, 03 Nov 2008 11:01:52 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: RF PA Module data?
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <98ednWq23eC8R5PUnZ2dnUVZ_g6dnZ2d@bright.net>
Lines: 21
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NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
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ZXET6g==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1049

I'm using a Mitsubishi M67749M in my 432 MHz beacon. The only datasheet
I can find at RF Parts shows maximum parameters, etc. There are no
charts showing output power versus such things as Vcc1, Vcc2, Vbb and
input power. Does anyone have the charts for this module?

If you do and can make an educated guess from looking at the various
charts as to what my output power will be?

I have it set up as follows:
Vcc1 = +5V
Vbb = +5V
Vcc2 = +13.6V
RF Input = 20 mW (+13 dBm)

My real question is will I get much output power with only +5V on Vcc1
or should I just tie it to +13.6V just as Vcc2?

THANKS!!

Scott
N0EDV

From -4252144964410635002
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!

news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe01.iad.POSTED!7564ea0f!not-for-mail
From: "Rich Klestinez" <replytogroup@noplace.cc>
Newsgroups: rec.radio.amateur.homebrew
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
<490BECC9.3070005@NETTALLY.COM> <OfudnYjf-9jDl5DUnZ2dnUVZ_tXinZ2d@earthlink.com>
Subject: Re: weller EC2002C soldering station
Lines: 61
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <cOCPk.7521$kd5.6503@newsfe01.iad>
NNTP-Posting-Host: bdjafomojnmbbnfdimgipopnlmjagbpd
X-Complaints-To: abuse@charter.net
X-Trace:
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NNTP-Posting-Date: Mon, 03 Nov 2008 13:13:44 UTC
Date: Mon, 3 Nov 2008 08:15:23 -0600
Xref: g2news1.google.com rec.radio.amateur.homebrew:1050

I used to work for a company (ARCO Oil) that used a bunch of those. Weller closely guarded their schematics and even now they will not release them. We sent them in for repair but they charged about as much as to buy a new one. Here is what I found over fixing a dozen or so.
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Other than the above, they are really a darn good soldering iron and keep the tip temperature regulated fairly closely.

I still have 2 of them so if you decide to throw them away, send them to me and I can use them for parts to keep mine in repair. I will reimburse you for your shipping.

I have more info If you need it.

Rich Klesstinez
3728 Crestline Rd
Fort Worth Tx 76107

Email:
(my name, lower case, no spaces) at charter (dot) net

"Ralph Mowery" <rmowery28146@earthlink.net> wrote in message
news:OfudnYjf-9jDl5DUnZ2dnUVZ_tXinZ2d@earthlink.com...
>
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> de KU4PT
>
>

```
From 9039648328801928387
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!
tmp-post01.iad!news.highwinds-media.com!not-for-mail
Message-ID: <490F0F09.50005@NETTALLY.COM>
Date: Mon, 03 Nov 2008 09:47:37 -0500
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To: Rich Klestinez <replytogroup@noplace.cc>
Subject: Re: weller EC2002C soldering station
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
<490BECC9.3070005@NETTALLY.COM> <OfudnYjf-9jDl5DUnZ2dnUVZ_tXinZ2d@earthlink.com>
<cOCPk.7521$kd5.6503@newsfe01.iad>
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```

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Lines: 78
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
NNTP-Posting-Host: 70.121.205.178
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:1052

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>
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```

>>>
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>>
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Rich;
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number of leaded capacitors on the display board (Mine is actually an
older model 2002-A version). I will try "shotgunning" a;; of the
capacitors with new ones and keep you in mind for the disposal if I buy
a replacement.

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From -7009159307933763940
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe01.iad.POSTED!7564ea0f!not-for-mail
From: "Rich Klestinez" <replytogroup@noplace.cc>
Newsgroups: rec.radio.amateur.homebrew
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
<490BECC9.3070005@NETTALLY.COM> <OfudnYjf-9jDl5DUnZ2dnUVZ_tXinZ2d@earthlink.com>
<cOCPk.7521$kd5.6503@newsfe01.iad> <490F0F09.50005@NETTALLY.COM>
Subject: Re: weller EC2002C soldering station
Lines: 88
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180

X-RFC2646: Format=Flowed; Response
Message-ID: <E1JPk.57382$f_7.39830@newsfe01.iad>
NNTP-Posting-Host: bdjafomojnmbbnfdimgipopnlmjagbpd
X-Complaints-To: abuse@charter.net
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bcpcmoabmkbfloblfkhgnhldfhiklkalgliebjmcmfbnekbbbdjafomojnmbbnfdeomdmlhdkojeioldhe
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NNTP-Posting-Date: Mon, 03 Nov 2008 20:19:48 UTC
Date: Mon, 3 Nov 2008 14:21:12 -0600
Xref: g2news1.google.com rec.radio.amateur.homebrew:1053

Joe: The ones that I have. One board is with the distplays on it has a
couple of regular caps. The other board is ceramic and it had all surface
mount parts. The ceramic board is the one that seems to always give me the
problems. Anyway give it a try.
rich

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>
> --
> Joe Leikhim K4SAT
> "The RFI-EMI-GUY"�
>
> "Treason doth never prosper: what's the reason?
> For if it prosper, none dare call it treason."
>
> "Follow The Money"  ;-P




From -3474396351240314331
X-Google-Thread: 1062f2,1ace8e258ec705a8
X-Google-Thread: 10063c,389f39de1acce010
X-Google-Thread: 10c2ee,389f39de1acce010
X-Google-Thread: fc2a5,389f39de1acce010
```

```
X-Google-Thread: 1118be,389f39de1acce010
X-Google-Attributes:
gid1062f2,gid10063c,gid10c2ee,gidfc2a5,gid1118be,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!b31g2000prb.googlegroups.com!not-for-
mail
From: Victoryleo <VictoryleoX@aol.com>
Newsgroups:
misc.industry.electronics.marketplace,alt.toys.transformers,rec.antiques.radio+pho
no,rec.radio.amateur.homebrew,sci.electronics.components
Subject: Re: eBay's Top 10 Transformers
Date: Mon, 3 Nov 2008 13:15:32 -0800 (PST)
Organization: http://groups.google.com
Lines: 3
Message-ID: <2fe7ae4f-e95b-4af6-ac18-240bd91340fb@b31g2000prb.googlegroups.com>
References: <64b58971c3cb8a6a0f2c030dbad92bc1@pseudo.borked.net>
	<943b6e3b-66f5-4d1b-9e36-4c42fcb8052c@d36g2000prf.googlegroups.com>
NNTP-Posting-Host: 205.188.116.135
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1225746932 28689 127.0.0.1 (3 Nov 2008 21:15:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 3 Nov 2008 21:15:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b31g2000prb.googlegroups.com; posting-host=205.188.116.135;
	posting-account=slgtdQoAAAAZMUy2gkJQEn4dcrP0Jt4t
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
	Trident/4.0; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s ]), HTTP/1.1
	spider-dtc-ti04.proxy.aol.com[CDBC7104] (Prism/1.2.1), HTTP/1.1
	cache-dtc-ac06.proxy.aol.com[CDBC7487] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com misc.industry.electronics.marketplace:110
alt.toys.transformers:5728 rec.antiques.radio+phono:8939
rec.radio.amateur.homebrew:1054 sci.electronics.components:1892
```

Those ebay top 10 list changes more than a few times per day. also TF
top 10 ebay list are tailored based on what a active ebay member buys
& sell on ebay.

```
From -8990886790078412360
X-Google-Thread: fc2a5,660f7cb852a5acc5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!b2g2000prf.googlegroups.com!not-for-
mail
From: Philippe Signoret <philippe.signoret@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Building a repeater
Date: Mon, 3 Nov 2008 15:50:02 -0800 (PST)
Organization: http://groups.google.com
```

```
Lines: 33
Message-ID: <35047e3e-b206-4ca7-b0e0-5a39fe3deea6@b2g2000prf.googlegroups.com>
References: <915780b1-9cf5-4fb3-ab57-248fad2a73f3@j68g2000hsf.googlegroups.com>
     <NqadnThhq7zPhpbUnZ2dnUVZ_j6dnZ2d@earthlink.com>
<SBHOk.1707$Jv2.242@nwrddc01.gnilink.net>
NNTP-Posting-Host: 132.254.89.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1225756202 24995 127.0.0.1 (3 Nov 2008 23:50:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 3 Nov 2008 23:50:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b2g2000prf.googlegroups.com; posting-host=132.254.89.10;
     posting-account=I2rbaQoAAAAN7tjNYptGD4OHnvF2flKH
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.3)
     Gecko/2008092417 Firefox/3.0.3 (.NET CLR 3.5.30729),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.0 CacheQRO-01 (squid/2.x)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1055

On Oct 31, 11:52=A0am, "JB" <nos...@goofball.net> wrote:
> There are small basic controller boards that you might find helpful for
> dealing with several issues.
>
> Other issues to consider:
>
> Think about a full time fan trained right on the PA and power supply and
> program TOT to 4 min max. in the FT.
> Even then you may find your mobile getting way too hot even on the low po=
wer
> settings. =A0Even to the point of melting solder. =A0 The heat may not tr=
avel
> fast enough from the device into the heat sink and build up when higher
> power levels are selected. =A0This winds up heating up the board too much
> Also note the transmitter is spec'd at a drifty 10ppm.
>
> Possible RF energy from the transmitter getting into the RX audio and thu=
s
> into the TX audio.
>
> Hams actually put more stress on a repeater than commercial users.
>
> http://infotech.awardspace.com/

Thanks. I still haven't had a chance to see if any of these
suggestions fix the problem, but I'll let you know.

The repeater will be used sparingly only during weekends, I don't
think I should have a heat problem. Either way, I do intend on using a
fan.

Thanks!
```

Philippe

```
From -862373118121575078
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 03 Nov 2008 18:15:53 -0600
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
<490BECC9.3070005@NETTALLY.COM> <OfudnYjf-9jDl5DUnZ2dnUVZ_tXinZ2d@earthlink.com>
<cOCPk.7521$kd5.6503@newsfe01.iad>
Subject: Re: weller EC2002C soldering station
Date: Mon, 3 Nov 2008 19:17:26 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <Kdidnd9sQvekCZLUnZ2dnUVZ_hudnZ2d@earthlink.com>
Lines: 48
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.225.35.56
X-Trace: sv3-wWHRdZQ/
G0ZG5ghHlhhbTPiEwcbM7FgxE5xXJJQp5Pom1ZslBlKdaxCOkIQqpTlSbuu+JDADEuwojTW!
F8FJeByfSKEL7HBzOvm5Ae42wEvvZ/GmWxmkUXTgy6KQt1gDTmXIpkjAVO4ykAix1BIV63iksjIv!
rKQPm+DnPz47YLeCWcmXp4YHOJh7C3UZIZv/ig==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1056
```

"Rich Klestinez" <replytogroup@noplace.cc> wrote in message
news:cOCPk.7521$kd5.6503@newsfe01.iad...

```
>I used to work for a company (ARCO Oil) that used a bunch of those.  Weller
>closely guarded their schematics and even now they will not release them.
>We sent them in for repair but they charged about as much as to buy a new
>one.  Here is what I found over fixing a dozen or so.
> 1) The wire nuts came loose inside
> 2) Intermittent wires in the cable going to the soldering iron.  Flex the
> cable while ohming end to end.
> 3) The surface mount electrolytics go bad.  These were MOST of the
> failures and I ended up changing all of         them in the rest of the 25
> irons we used over about 3 years.
> 4) The cheap temperature set wire wound pot gets worn out.
>
> Most of the parts in this unit are consumer rated parts and are available.
```

> Never had any problems with the ceramic boards in the units or with the
> printed resistors on them. Had a couple of chips fail. It's an A to D
> with a seven segment driver built in. They are available still.
>
> Other than the above, they are really a darn good soldering iron and keep
> the tip temperature regulated fairly closely.
>
> I still have 2 of them so if you decide to throw them away, send them to
> me and I can use them for parts to keep mine in repair. I will reimburse
> you for your shipping.
>
> I have more info If you need it.
>
> Rich Klesstinez
> 3728 Crestline Rd
> Fort Worth Tx 76107
>
> Email:
> (my name, lower case, no spaces) at charter (dot) net
>

Thanks for the reply. I will probably keep the soldering station. It seems to work fine, just no display. Weller made another modle that seemed to be the same unit without the display.   I guess that if Weller did repair them, they probably just changed out the controller board. Similar to what the Commador computer people did. They had a flat repair rate. Don;t recall exectally,but it was something like the board cost them $ 50 and they charged about $ 70 to repair the computer. All they did was throw away the old insides and replace them. Seems this way is cheeper than the labor to repair them.

```
From -3917843858601346885
X-Google-Thread: fc2a5,41727650766a628e,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2!
nlpi057.nbdc.sbc.com!prodigy.net!flpi088.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!nlpi070.nbdc.sbc.com.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: eBay: Meters & panel for linear or repeater
Lines: 1
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
```

```
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <2HOPk.5523$x%.2429@nlpi070.nbdc.sbc.com>
NNTP-Posting-Host: 70.142.36.13
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi070.nbdc.sbc.com 1225766718 ST000 70.142.36.13 (Mon, 03 Nov 2008
21:45:18 EST)
NNTP-Posting-Date: Mon, 03 Nov 2008 21:45:18 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
Q[OERYWDPZRORRDXN[O@_WH@YR_B@EXLLBWLOOAFMASJETAANVW[AKWZE\]^XQWIGNE_[EBL@^_\^JOCQ^
RSNVLGTFTKHTXHHP[NB\_C@\SD@EP_[KCXX__AGDDEKGFNB\ZOKLRNCY_CGG[RHT_UN@C_BSY\G__IJIX_
PLSA[CCFAULEY\FL\VLGANTQQ]FN
Date: Mon, 3 Nov 2008 20:45:19 -0600
Xref: g2news2.google.com rec.radio.amateur.homebrew:3508
```

http://search.ebay.com/_W0QQsassZwd5jfrQQfrppZ50QQfsopZ32QQfsooZ2QQrdZ0

```
From -3439168449301766631
X-Google-Thread: fc2a5,a5480198acc23f0
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!feed.news.qwest.net!
mpls-nntp-08.inet.qwest.net!news.qwest.net!not-for-mail
Date: Mon, 03 Nov 2008 18:52:47 -0800
From: PhattyMo <phattymo@not.net>
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RF PA Module data?
References: <98ednWq23eC8R5PUnZ2dnUVZ_g6dnZ2d@bright.net>
In-Reply-To: <98ednWq23eC8R5PUnZ2dnUVZ_g6dnZ2d@bright.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 27
Message-ID: <490fb8f2$0$89395$815e3792@news.qwest.net>
Organization: Qwest Communications Corporation
NNTP-Posting-Host: 64d25579.news.qwest.net
X-Trace: DXC=hn@eoHXI?V^cFBJ[RKVJ0_F85SKJoGf>T3^LX_B6TRIZHfQ1a503Y0\F85SKJoGf>T?
I^_`>3Hm5YdaEl;Pl6m4W8^`gd^]U=dX
X-Complaints-To: news@qwest.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:1058
```

I would leave Vcc1 and Vbb(bias,I'm assuming?) connected to +5V,to avoid
frying the module.

Scott wrote:
> I'm using a Mitsubishi M67749M in my 432 MHz beacon. The only datasheet
> I can find at RF Parts shows maximum parameters, etc. There are no
> charts showing output power versus such things as Vcc1, Vcc2, Vbb and
> input power. Does anyone have the charts for this module?

>
> If you do and can make an educated guess from looking at the various
> charts as to what my output power will be?
>
> I have it set up as follows:
> Vcc1 = +5V
> Vbb = +5V
> Vcc2 = +13.6V
> RF Input = 20 mW (+13 dBm)
>
> My real question is will I get much output power with only +5V on Vcc1
> or should I just tie it to +13.6V just as Vcc2?
>
> THANKS!!
>
> Scott
> N0EDV

```
From 8684045281769439720
X-Google-Thread: fc2a5,5b1dfd51c4f23d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!nlpi057.nbdc.sbc.com!
prodigy.net!flpi088.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi070.nbdc.sbc.com.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <ea79280c-6148-42a5-be23-33e848418174@n1g2000prb.googlegroups.com>
<95c53136-a7b1-4293-aeb2-225e0024a77c@40g2000prx.googlegroups.com>
Subject: Re: I built a 7.5VAC 21Amp transformer now it has lots of buzz
Lines: 44
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <U_OPk.5525$x%.1890@nlpi070.nbdc.sbc.com>
NNTP-Posting-Host: 70.142.36.13
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi070.nbdc.sbc.com 1225767988 ST000 70.142.36.13 (Mon, 03 Nov 2008
22:06:28 EST)
NNTP-Posting-Date: Mon, 03 Nov 2008 22:06:28 EST
Organization: at&t http://my.att.net/
X-UserInfo1:
Q[R_PJON^ZUKRTD[@JIROFXBWR\HPCTL@XT^OBPLAH[\RWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
```

TINTDDMVW[X\THOPXZRVOCJTUTPC_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Mon, 3 Nov 2008 21:06:29 -0600
Xref: g2news1.google.com rec.radio.amateur.homebrew:1059

congrats on the fix..
now you have th epower and the time to contest..
Contesting is much like transformer winding..
Once you learn how to do one turn, you repeat and count until you reach
a goal...
In contesting you do one turn, then another till you reach the time
limit and count your turns.
hi hi
Hank
"raypsi" <RBorowiak@gmail.com> wrote in message
news:95c53136-a7b1-4293-aeb2-225e0024a77c@40g2000prx.googlegroups.com...
> On Oct 25, 12:25 pm, raypsi <RBorow...@gmail.com> wrote:
>> Hey all:
>>
>> I tore down a transformer I got from ebay it was a Zenith TV power
>> transformer from days gone by. Re wound it with 17AWG wire on the
>> secondary and primary. It powers up my 4-1000A filament nicely with
>> 7.25VAC from 120VAC mains. I used a penta-filar winding on the
>> secondary. Shimmed the bobbin in the core window with some 1/8
>> thick
>> virgin teflon. Epoxied the windings to the bobbin. This was a 240VA
>> transformer and now is a 83watt buzzer / 157watt filament
>> transformer.
>>
>> So what is the cheapest I can gits away with sealing these
>> laminations
>> from buzzing, I used up all my epoxy sealing the windings.
>>
>> 73
>>
>> n8zu
>
> I finally got around to clamping the transformer down with grade 8,
> 1/4inch bolts and nuts That didn't help, luckily I found my 3 hour
> epoxy, ran the transformer for 3 hours straight to heat it up, took
> the bolts out and with a putty knife slapped on some microwave heated
> epoxy on the lams. That took the buzz down to below the level of the
> fan noise. In dead silence you can still hear it. Nowhere can you feel
> the buzz.
>
> 73
>
> n8zu

From 4439717645585062617
X-Google-Thread: fc2a5,660f7cb852a5acc5

```
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <915780b1-9cf5-4fb3-ab57-248fad2a73f3@j68g2000hsf.googlegroups.com>
<NqadnThhq7zPhpbUnZ2dnUVZ_j6dnZ2d@earthlink.com>
<SBHOk.1707$Jv2.242@nwrddc01.gnilink.net> <35047e3e-b206-4ca7-
b0e0-5a39fe3deea6@b2g2000prf.googlegroups.com>
Subject: Re: Building a repeater
Lines: 5
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <R7PPk.2717$Jv2.1785@nwrddc01.gnilink.net>
Date: Tue, 04 Nov 2008 03:16:01 GMT
NNTP-Posting-Host: 71.110.233.195
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1225768561 71.110.233.195 (Mon, 03 Nov 2008 22:16:01
EST)
NNTP-Posting-Date: Mon, 03 Nov 2008 22:16:01 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:3511

The repeater will be used sparingly only during weekends, I don't
think I should have a heat problem. Either way, I do intend on using a
fan.

We live and we learn.


From -21070181790827286
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!40g2000prx.googlegroups.com!not-for-
mail
From: tyreemand@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: Blonde and brunette sweeties enjoy sharing one very strong chocolate
     shaft
Date: Mon, 3 Nov 2008 23:33:52 -0800 (PST)
Organization: http://groups.google.com
Lines: 2
Message-ID: <38b83f30-b842-498e-ae74-4ba93d670be4@40g2000prx.googlegroups.com>
```

```
NNTP-Posting-Host: 92.112.158.204
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1225784033 15876 127.0.0.1 (4 Nov 2008 07:33:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 4 Nov 2008 07:33:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 40g2000prx.googlegroups.com; posting-host=92.112.158.204;
     posting-account=8N4mVgoAAABmLLkJQvSeZsuS_r9oM6nG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:810
rec.radio.amateur.homebrew:1061 rec.radio.amateur.misc:1526 rec.running:4918
rec.scouting.issues:934

http://chocolate.withsex.com/ Blonde and brunette sweeties enjoy
sharing one very strong chocolate shaft http://chocolate.withsex.com/



From 4215363525970727659
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 04 Nov 2008 05:42:50 -0600
Date: Tue, 04 Nov 2008 11:42:48 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Update: Re: RF PA Module data?
References: <98ednWq23eC8R5PUnZ2dnUVZ_g6dnZ2d@bright.net>
<490fb8f2$0$89395$815e3792@news.qwest.net>
In-Reply-To: <490fb8f2$0$89395$815e3792@news.qwest.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <IaednYTi9_-nqI3UnZ2dnUVZ_rfinZ2d@bright.net>
Lines: 37
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-piNEs6Gy3HT9Z59jQG/v2O4gJ5wyPoip5fD63HzaxcsnXzI7Occ/
46PK9VktyJEY58jiBNhzPnZBQDn!
TlASsTtHpGAJNng9S00MbVFwSPvoU1Ox1YJGtAJLcBvnF54DKNa1BrL7lUrUWao4f+ccMxzWgvfp!
BVpDNyseOA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

```
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:1062

PhattyMo wrote:

> I would leave Vcc1 and Vbb(bias,I'm assuming?) connected to +5V,to avoid
> frying the module.
>
> Scott wrote:
>
>> I'm using a Mitsubishi M67749M in my 432 MHz beacon.  The only
>> datasheet I can find at RF Parts shows maximum parameters, etc.  There
>> are no charts showing output power versus such things as Vcc1, Vcc2,
>> Vbb and input power.  Does anyone have the charts for this module?
>>
>> If you do and can make an educated guess from looking at the various
>> charts as to what my output power will be?
>>
>> I have it set up as follows:
>> Vcc1 = +5V
>> Vbb =  +5V
>> Vcc2 = +13.6V
>> RF Input = 20 mW (+13 dBm)
>>
>> My real question is will I get much output power with only +5V on Vcc1
>> or should I just tie it to +13.6V just as Vcc2?
>>
>> THANKS!!
>>
>> Scott
>> N0EDV
>
>
>
With Vcc1 at 5V, I get 6.8 Watts out during testing.  It appears I will
actually need to lower Vcc1 just a bit to get down to my desired 4
Watts.  Thanks for the note!

Scott
N0EDV


From -4578147930067439087
X-Google-Thread: fc2a5,a5480198acc23f0
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 04 Nov 2008 06:24:24 -0600
Date: Tue, 04 Nov 2008 12:24:11 +0000
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
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MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Update: Re: RF PA Module data?
References: <98ednWq23eC8R5PUnZ2dnUVZ_g6dnZ2d@bright.net>
<490fb8f2$0$89395$815e3792@news.qwest.net> <IaednYTi9_-
nqI3UnZ2dnUVZ_rfinZ2d@bright.net>
In-Reply-To: <IaednYTi9_-nqI3UnZ2dnUVZ_rfinZ2d@bright.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
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Lines: 55
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NNTP-Posting-Host: 85.210.100.110
X-Trace: sv3-s6GePs7VkzWm29r/
brzk0jd30mUSpgVlTMTk6w2K2sEozV+0HC29tkBYkuz0MYeeWbyghh2qwiqvzpg!
o1onQegtkntUZptY3r20u+J0BlG2EBYtX4vNE4MxTpvMoL30N2L1BpRVeHHhn/aJxj5D7DxcYccG!
QeZAIcbEp4k5rq/3gdoX+qOqtAk=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3514

Scott wrote:
> PhattyMo wrote:
>
>> I would leave Vcc1 and Vbb(bias,I'm assuming?) connected to +5V,to
>> avoid frying the module.
>>
>> Scott wrote:
>>
>>> I'm using a Mitsubishi M67749M in my 432 MHz beacon. The only
>>> datasheet I can find at RF Parts shows maximum parameters, etc.
>>> There are no charts showing output power versus such things as Vcc1,
>>> Vcc2, Vbb and input power. Does anyone have the charts for this module?
>>>
>>> If you do and can make an educated guess from looking at the various
>>> charts as to what my output power will be?
>>>
>>> I have it set up as follows:
>>> Vcc1 = +5V
>>> Vbb = +5V
>>> Vcc2 = +13.6V
>>> RF Input = 20 mW (+13 dBm)
>>>
>>> My real question is will I get much output power with only +5V on
>>> Vcc1 or should I just tie it to +13.6V just as Vcc2?
>>>
>>> THANKS!!
>>>
>>> Scott

```
>>> N0EDV
>>
>>
>>
> With Vcc1 at 5V, I get 6.8 Watts out during testing.  It appears I will
> actually need to lower Vcc1 just a bit to get down to my desired 4
> Watts.  Thanks for the note!
===============================================
 From a list with RF power modules by Mitsubishi I get the following spec :
M67749M
Freq range : 430 - 450 MHz
Po :  7 watts
Gp :  25.4 dB
Pin : 20 mW
Vcc : 12.5 V
Vbb : 5 V      (if a Vbb is indicated ,this is a linear module suitable
for SSB operation )

Vcc (max rating)  : 15 V
Po  (max rating   : 10 Watts

Package outline :  H27



Frank  GM0CSZ / KN6WH




From 8156494073242248835
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 04 Nov 2008 11:09:41 -0600
Date: Tue, 04 Nov 2008 12:09:40 -0500
From: highlandham <rfburns@nospam.com>
User-Agent: Icedove 1.5.0.9 (X11/20061220)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: weller EC2002C soldering station
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
<490BECC9.3070005@NETTALLY.COM> <OfudnYjf-9jDl5DUnZ2dnUVZ_tXinZ2d@earthlink.com>
<cOCPk.7521$kd5.6503@newsfe01.iad>
<Kdidnd9sQvekCZLUnZ2dnUVZ_hudnZ2d@earthlink.com>
In-Reply-To: <Kdidnd9sQvekCZLUnZ2dnUVZ_hudnZ2d@earthlink.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
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X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3515

Ralph Mowery wrote:
> "Rich Klestinez" <replytogroup@noplace.cc> wrote in message
> news:cOCPk.7521$kd5.6503@newsfe01.iad...
>> I used to work for a company (ARCO Oil) that used a bunch of those. Weller
>> closely guarded their schematics and even now they will not release them.
>> We sent them in for repair but they charged about as much as to buy a new
>> one. Here is what I found over fixing a dozen or so.
>> 1) The wire nuts came loose inside
>> 2) Intermittent wires in the cable going to the soldering iron. Flex the
>> cable while ohming end to end.
>> 3) The surface mount electrolytics go bad. These were MOST of the
>> failures and I ended up changing all of   them in the rest of the 25
>> irons we used over about 3 years.
>> 4) The cheap temperature set wire wound pot gets worn out.
>>
>> Most of the parts in this unit are consumer rated parts and are available.
>> Never had any problems with the ceramic boards in the units or with the
>> printed resistors on them. Had a couple of chips fail. It's an A to D
>> with a seven segment driver built in. They are available still.
>>
>> Other than the above, they are really a darn good soldering iron and keep
>> the tip temperature regulated fairly closely.
>>
>> I still have 2 of them so if you decide to throw them away, send them to
>> me and I can use them for parts to keep mine in repair. I will reimburse
>> you for your shipping.
>>
>> I have more info If you need it.
>>
>> Rich Klesstinez
>> 3728 Crestline Rd
>> Fort Worth Tx 76107
>>
>> Email:
>> (my name, lower case, no spaces) at charter (dot) net
>>
>
> Thanks for the reply. I will probably keep the soldering station. It seems
> to work fine, just no display. Weller made another modle that seemed to be
> the same unit without the display.   I guess that if Weller did repair them,

> they probably just changed out the controller board. Similar to what the
> Commador computer people did. They had a flat repair rate. Don;t recall
> exectally,but it was something like the board cost them $ 50 and vethey
> charged about $ 70 to repair the computer. All they did was throw away the
> old insides and replace them. Seems this way is cheeper than the labor to
> repair them.

==

On the topic of Weller soldering irons , I would appreciate info on the following :

At a fleamarket I acquired a Weller soldering iron with a DIL16
de-soldering pad (very handy to remove ICs with up to 16 pins.
However , the heater element (Weller part nr 24410 , 24V-50W) is
defective (open circuit)
By Googling I haven't been successful finding a US supplier for the
heater element.
Can someone on this NG please help with US supplier info (in the hope
the cost of a replacement element will not make it necessary for me
having to talk to my bank manager).

TIA for any advice

Frank   GM0CSZ / KN6WH

```
From 8190681226659949906
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!a17g2000prm.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: weller EC2002C soldering station
Date: Tue, 4 Nov 2008 11:30:06 -0800 (PST)
Organization: http://groups.google.com
Lines: 8
Message-ID: <9ea9aaa3-b83c-465e-b370-d13686810d01@a17g2000prm.googlegroups.com>
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
     <490BECC9.3070005@NETTALLY.COM> <Xns9B499C88C85BC2MDWN@194.177.96.78>
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Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 4 Nov 2008 19:30:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a17g2000prm.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
```

CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:1065

On Nov 1, 4:23=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:

> We had one of these irons at work and replaced it with a WTCP
> station.

I cannot say how much I love the WTCP's for being a rugged reliable workhorse.

Tim N3QE

From 8245058255730030070
X-Google-Thread: fc2a5,1d28f52e8d9dfe75,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!feeder.erje.net!news.buerger.net!aioe.org!not-for-mail
From: "Larry Gagnon" <lggagnon@fakeuniserve.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Voltage drop problems with power supply
Date: Tue, 04 Nov 2008 14:06:32 -0800
Organization: Aioe.org NNTP Server
Lines: 26
Message-ID: <op.uj37o6zpaiss39@localhost>
NNTP-Posting-Host: mZHKf6fCvs2mHEPxhjtOsQ.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; format=flowed; delsp=yes; charset=utf-8
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Tue, 4 Nov 2008 22:06:32 +0000 (UTC)
X-Notice: Filtered by postfilter v. 0.7.4
User-Agent: Opera Mail/9.60 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3517

Hello. I have a homebrew linear 13.8V 20A power supply I have been using for some years to power an IC-735, a 2M rig and some accessories. The PS has these characteristics:

- well filtered (35000uF)22AMP, 21 volt DC output from diode bridge circuit
- LM-317 regulator circuit (as per LM-317 datasheets)
- MJ2955 NPN feeder transistor from regulator driving 4 - 2N3055 PNP power transistors in parallel
- large heat sinks (I don't think heat is a problem)
- good air circulation with fan

I have the regulator set to 13.7 VDC out. Lately however, I have had some problems with voltage drops: while drawing 20 amps the voltage drops to about 11.3 volts and I have had reports of a rough CW signal as a result.

I have tested the reg circuit and even replaced the LM-317 to no avail. I cannot see where the problem lies, unless perhaps the MJ2955 feeder

transistor is not working as it should? (I don't yet have a replacement
transistor to test that idea, hence this post).

Any ideas greatly appreciated.

Larry VE7EA

--
For direct email remove fake.

From -3355981932276589807
X-Google-Thread: fc2a5,1d28f52e8d9dfe75
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 04 Nov 2008 16:38:04 -0600
Date: Tue, 04 Nov 2008 14:37:55 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Voltage drop problems with power supply
References: <op.uj37o6zpaiss39@localhost>
In-Reply-To: <op.uj37o6zpaiss39@localhost>
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Content-Transfer-Encoding: 7bit
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6mTmpbFmeRaFZDk=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3518

Larry Gagnon wrote:
> Hello. I have a homebrew linear 13.8V 20A power supply I have been using
> for some years to power an IC-735, a 2M rig and some accessories. The PS
> has these characteristics:
>
> - well filtered (35000uF)22AMP, 21 volt DC output from diode bridge circuit
> - LM-317 regulator circuit (as per LM-317 datasheets)
> - MJ2955 NPN feeder transistor from regulator driving 4 - 2N3055 PNP
> power transistors in parallel
> - large heat sinks (I don't think heat is a problem)
> - good air circulation with fan

>
> I have the regulator set to 13.7 VDC out. Lately however, I have had
> some problems with voltage drops: while drawing 20 amps the voltage
> drops to about 11.3 volts and I have had reports of a rough CW signal as
> a result.
>
> I have tested the reg circuit and even replaced the LM-317 to no avail.
> I cannot see where the problem lies, unless perhaps the MJ2955 feeder
> transistor is not working as it should? (I don't yet have a replacement
> transistor to test that idea, hence this post).
>
> Any ideas greatly appreciated.
>
> Larry VE7EA
>

It's probably not dropping to a constant 11.3V -- it's probably dropping
out on the valleys of the rectifier's output. A steady low voltage
would either render your transceiver inoperable or lower your output
power; the "rough CW" is probably modulated at 120Hz.

Most likely that "well filtered (35000uF)" has turned to "lots of hum
(dried up electrolytics)".

I assume you don't have an oscilloscope. If you do, clip it onto the
power supply output and take a look while you run it close to it's
limit. Any filtering problems should become immediately apparent.

If you don't have fancy equipment just measure the output with your
voltmeter switched to "AC" -- most VOMs will filter out the DC and just
let you see the wiggly part. Do this under both heavy load and light --
if there's a honking big AC component as the voltage sags then there
needs to be some new capacitors in your future.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From 9217827623812277199
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!w39g2000prb.googlegroups.com!not-for-mail
From: "JRCCrabtree@gmail.com" <JRCCrabtree@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: weller EC2002C soldering station

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Date: Tue, 4 Nov 2008 16:01:27 -0800 (PST)
Organization: http://groups.google.com
Lines: 29
Message-ID: <218e931a-ad7f-4f2d-a4eb-53e29f2d5273@w39g2000prb.googlegroups.com>
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
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Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 5 Nov 2008 00:01:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w39g2000prb.googlegroups.com; posting-host=205.188.116.144;
     posting-account=oReaeAoAAAC8QjvgaTJKVc8n6hZSq0yP
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
     98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-dtc-tb05.proxy.aol.com[CDBC7025] (Prism/1.2.1),
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Xref: g2news2.google.com rec.radio.amateur.homebrew:3519

On Nov 4, 11:09=EF=BF=BDam, highlandham <rfbu...@nospam.com> wrote:

> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
> On the topic of Weller soldering irons , I would appreciate info on the
> following :
>
> At a fleamarket I acquired a Weller soldering iron with a DIL16
> de-soldering pad (very handy to remove ICs with up to 16 pins.
> However , the heater element (Weller part nr 24410 , 24V-50W) is
> defective (open circuit)
> By Googling I haven't been successful finding a US supplier for the
> heater element.
> Can someone on this NG please help with US supplier info ( in the hope
> the cost of a replacement element will not make it necessary for me
> having to talk to my bank manager).
>
> TIA for any advice
>
> Frank =EF=BF=BD =EF=BF=BD GM0CSZ / KN6WH- Hide quoted text -
>
> - Show quoted text -

Hello Frank

Do you have a model number for the iron?  If so, what is it?
```

73 John KC0G

From 5105027557867580775
X-Google-Thread: fc2a5,1d28f52e8d9dfe75
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!f4af025b!not-for-mail
From: "Norm Mann" <folder0735@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <op.uj37o6zpaiss39@localhost>
Subject: Re: Voltage drop problems with power supply
Lines: 35
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
Message-ID: <776Qk.2967$Jv2.139@nwrddc01.gnilink.net>
Date: Wed, 05 Nov 2008 00:52:19 GMT
NNTP-Posting-Host: 71.102.225.245
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1225846339 71.102.225.245 (Tue, 04 Nov 2008 19:52:19 EST)
NNTP-Posting-Date: Tue, 04 Nov 2008 19:52:19 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:3520

"Larry Gagnon" <lggagnon@fakeuniserve.com> wrote in message
news:op.uj37o6zpaiss39@localhost...
> Hello. I have a homebrew linear 13.8V 20A power supply I have been using
> for some years to power an IC-735, a 2M rig and some accessories. The PS
> has these characteristics:
>
> - well filtered (35000uF)22AMP, 21 volt DC output from diode bridge
> circuit
> - LM-317 regulator circuit (as per LM-317 datasheets)
> - MJ2955 NPN feeder transistor from regulator driving 4 - 2N3055 PNP power
> transistors in parallel
> - large heat sinks (I don't think heat is a problem)
> - good air circulation with fan
>
> I have the regulator set to 13.7 VDC out. Lately however, I have had some
> problems with voltage drops: while drawing 20 amps the voltage drops to
> about 11.3 volts and I have had reports of a rough CW signal as a result.
>
> I have tested the reg circuit and even replaced the LM-317 to no avail. I
> cannot see where the problem lies, unless perhaps the MJ2955 feeder

> transistor is not working as it should? (I don't yet have a replacement
> transistor to test that idea, hence this post).
>
> Any ideas greatly appreciated.
>

In addition to Tim's suggestion, If a rectifer diode opened, you might also experience a similar problem. With a scope, it'll have 60 Hz ripple instead of 120 Hz ripple when loaded.

-NM

```
From -7007260186629410171
X-Google-Thread: fc2a5,1d28f52e8d9dfe75
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
news.buerger.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Voltage drop problems with power supply
Date: Wed, 5 Nov 2008 05:09:20 +0100 (CET)
Organization: Mostly In Piles
Lines: 82
Message-ID: <Xns9B4CE1635372MDWN@194.177.96.78>
References: <op.uj37o6zpaiss39@localhost>
NNTP-Posting-Host: JXhaHaxYvD5dbPXn9R3SjQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Wed, 5 Nov 2008 04:09:20 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3521
```

Howdy,

A few of random suggestions...

The MJ2955 is a PNP and the 2N3055 are NPN.
The pass devices are NPN that make an emitter
follower output which provides current gain.

Load the supply until the voltage drops.
Then measure the base voltage at each 2N3055.
The bases should all be the same, a base to
emitter voltage drop higher than the output
voltage. One of the pass devices may have
failed or the drive current could be insufficient.

I'm guessing without a schematic but the MJ2955 is probably boosting the LM317's output and may also be part of an over current foldback protection circuit. Check the collector voltage it should be nearly the same as the 2N3055 base voltage. If it's much higher that points to a problem with the pass devices. If it's not then there's not enough loop gain.

You may find a high power low value resistor near the MJ2955 for current limiting, check the value of that too. If it's damaged or drifted high you could be hitting the current fold back protection.

The 21V bulk supply will sag if there is a bad rectifier so a check of that under load is a good test. If it's much below 18V that could be too low. The LM317 needs about 3V head room and the 2N3055 will need a Vbe drop.

I think if the bulk cap had dried up you'd hear hum even at lower load current.

You can trouble shoot this with a voltmeter, stage-by-stage, once you load it until it's exhibiting the problem. Once you identify the failing stage a careful visual inspection followed by some resistance and junction checks should solve the puzzle.

73,
Grumpy

"Larry Gagnon" <lggagnon@fakeuniserve.com> wrote in news:op.uj37o6zpaiss39@localhost:

> Hello. I have a homebrew linear 13.8V 20A power supply I have been
> using for some years to power an IC-735, a 2M rig and some
> accessories. The PS has these characteristics:
>
> - well filtered (35000uF)22AMP, 21 volt DC output from diode bridge
> circuit - LM-317 regulator circuit (as per LM-317 datasheets)
> - MJ2955 NPN feeder transistor from regulator driving 4 - 2N3055 PNP
> power transistors in parallel
> - large heat sinks (I don't think heat is a problem)
> - good air circulation with fan
>
> I have the regulator set to 13.7 VDC out. Lately however, I have had
> some problems with voltage drops: while drawing 20 amps the voltage

> drops to about 11.3 volts and I have had reports of a rough CW signal
> as a result.
>
> I have tested the reg circuit and even replaced the LM-317 to no
> avail. I cannot see where the problem lies, unless perhaps the MJ2955
> feeder transistor is not working as it should? (I don't yet have a
> replacement transistor to test that idea, hence this post).
>
> Any ideas greatly appreciated.
>
> Larry VE7EA
>

From -3763630588250529627
X-Google-Thread: fc2a5,1d28f52e8d9dfe75
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!news.buerger.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Voltage drop problems with power supply
Date: Wed, 5 Nov 2008 05:19:57 +0100 (CET)
Organization: Mostly In Piles
Lines: 30
Message-ID: <Xns9B4CE3306F7312MDWN@194.177.96.78>
References: <op.uj37o6zpaiss39@localhost> <Xns9B4CE1635372MDWN@194.177.96.78>
NNTP-Posting-Host: JXhaHaxYvD5dbPXn9R3SjQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Wed, 5 Nov 2008 04:19:57 +0000 (UTC)
User-Agent: Xnews/5.04.25
X-Notice: Filtered by postfilter v. 0.7.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3522

Oh!

I forgot to say if the 2N3055's don't have individual base drive resistors, if their bases are all wired together, then you'd have to pull them and check the base-to-emitter and base-to-collector junctions with the VOM to know if one had failed. I've seen a smaller supply built like that and one of two 2N3055 had failed. It made 8A instead of 12A output before going out of regulation.

If there are individual base resistors the 2N3055 with the higher base voltage, because there's no current drawn though its drive resistor, is the bad one.

73,

Grumpy

Grumpy The Mule <s_foonly@foo.bar> wrote in
news:Xns9B4CE1635372MDWN@194.177.96.78:

> Load the supply until the voltage drops.
> Then measure the base voltage at each 2N3055.
> The bases should all be the same, a base to
> emitter voltage drop higher than the output
> voltage. One of the pass devices may have
> failed or the drive current could be insufficient.

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From 4292023779321484379
X-Google-Thread: 108122,e13d475469020997,start
X-Google-Thread: fc2a5,e13d475469020997,start
X-Google-Thread: 107ada,e13d475469020997,start
X-Google-Thread: 110c99,e13d475469020997,start
X-Google-Thread: 111320,e13d475469020997,start
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d42g2000prb.googlegroups.com!not-for-
mail
From: tyreemand@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: Financial crisis came in to farm industry. Viagra sell 300 percents
Date: Tue, 4 Nov 2008 22:14:43 -0800 (PST)
Organization: http://groups.google.com
Lines: 2
Message-ID: <957bdefb-dfa7-4a19-bd2f-aa3f17a6b1fa@d42g2000prb.googlegroups.com>
NNTP-Posting-Host: 92.112.154.94
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1225865683 17680 127.0.0.1 (5 Nov 2008 06:14:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 5 Nov 2008 06:14:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d42g2000prb.googlegroups.com; posting-host=92.112.154.94;
     posting-account=8N4mVgoAAABmLLkJQvSeZsuS_r9oM6nG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:813
rec.radio.amateur.homebrew:1072 rec.radio.amateur.misc:1534 rec.running:4937
rec.scouting.issues:935
```

http://farmos.freetzi.com/ Financial crisis came in to farm industry.
Viagra sell 300 percents

```
From -5893914983450108918
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 05 Nov 2008 02:03:52 -0600
From: "Bryan" <bryan.swadenerNOSPAM@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
<490BECC9.3070005@NETTALLY.COM> <OfudnYjf-9jDl5DUnZ2dnUVZ_tXinZ2d@earthlink.com>
Subject: Re: weller EC2002C soldering station
Date: Wed, 5 Nov 2008 00:03:52 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <as6dnWFp9O_1zozUnZ2dnUVZ_uednZ2d@giganews.com>
Lines: 32
X-Usenet-Provider: http://www.giganews.com
X-Trace:
sv3-2QNHZsDQNpG+42GHOiei8uKo+Asy6noQXDsU4Le1cD40yTUpNuSmv7VEWIjMi0goaRCTlsVbLKpIUE
+!KGsPP5JWLjU3X1tJC1qc3xREPYgehEEnF85ie2Ez+YEnYh9UNvjEoEgJ4vLV9nt8u8uhQnh7tuU=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3524
```

```
Ralph Mowery wrote:
>
> RFI-EMI-GUY wrote:
>> I have same model unit with same exact problem. Yest it does regulate the
>> temperature. I haven't figured out the display problem either and the
>> thermistor in the iron seems to "ohm out" properly. Let me know what you
>> find. I never could find schematics for it. I used it just today on a PIC
>> project. Shame to throw it out, but I would like to read the temperature.
>>
>> --
>> Joe Leikhim K4SAT
>
> I found several schematics for different models.  Never did find the one
> that matches mine.  I opened it up and it seems there is a ceramic board
> with surface devices on it.  Almost no user replicable parts.  Atleast for
```

> my skill level. I was hoping it would be the discrete parts. I can work
> with them. Oh well, it was free and is a good soldering iron even without
> the display. I do have a couple of spare parts for it also.
>
> de KU4PT

Hi Ralph,

In my surfing, I found this reverse-engineered service manual for the
EC2002: http://www.geocities.com/bswadener/temp/Weller_EC-2002.pdf or
http://tinyurl.com/5ff6qx (PDF, 372 KB). It may be of use to you and
others.

vy 73,
Bryan WA7PRC

From 2905205926699110503
X-Google-Thread: fc2a5,4720c8a3f6e21a8b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!
tmp-post01.iad!news.highwinds-media.com!not-for-mail
Date: Wed, 05 Nov 2008 10:22:15 -0500
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: weller EC2002C soldering station
References: <6cednZmEO6M9F5bUnZ2dnUVZ_jidnZ2d@earthlink.com>
<490BECC9.3070005@NETTALLY.COM> <OfudnYjf-9jDl5DUnZ2dnUVZ_tXinZ2d@earthlink.com>
<as6dnWFp9O_1zozUnZ2dnUVZ_uednZ2d@giganews.com>
In-Reply-To: <as6dnWFp9O_1zozUnZ2dnUVZ_uednZ2d@giganews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 41
Message-ID: <4911ba23$0$4914$9a6e19ea@unlimited.newshosting.com>
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
NNTP-Posting-Host: 70.121.205.178
X-Complaints-To: abuse@newshosting.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:3525

Bryan wrote:
> Ralph Mowery wrote:
>> RFI-EMI-GUY wrote:
>>> I have same model unit with same exact problem. Yest it does regulate the
>>> temperature. I haven't figured out the display problem either and the
>>> thermistor in the iron seems to "ohm out" properly. Let me know what you
>>> find. I never could find schematics for it. I used it just today on a PIC

```
>>> project. Shame to throw it out, but I would like to read the temperature.
>>>
>>> --
>>> Joe Leikhim K4SAT
>> I found several schematics for different models.  Never did find the one
>> that matches mine.  I opened it up and it seems there is a ceramic board
>> with surface devices on it.  Almost no user replicable parts.  Atleast for
>> my skill level.  I was hoping it would be the discrete parts.  I can work
>> with them.  Oh well, it was free and is a good soldering iron even without
>> the display.  I do have a couple of spare parts for it also.
>>
>> de KU4PT
>
> Hi Ralph,
>
> In my surfing, I found this reverse-engineered service manual for the
> EC2002: http://www.geocities.com/bswadener/temp/Weller_EC-2002.pdf  or
> http://tinyurl.com/5ff6qx (PDF, 372 KB).  It may be of use to you and
> others.
>
> vy 73,
> Bryan WA7PRC
>
>
Thanks!

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money"  ;-P


From -5949353645461600009
X-Google-Thread: fc2a5,1d28f52e8d9dfe75
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.germany.com!news.k-dsl.de!aioe.org!
not-for-mail
From: "Larry Gagnon" <lggagnon@fakeuniserve.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Voltage drop problems with power supply
Date: Wed, 05 Nov 2008 08:44:41 -0800
Organization: Aioe.org NNTP Server
Lines: 2
Message-ID: <op.uj5ngrfbaiss39@localhost>
References: <op.uj37o6zpaiss39@localhost>
NNTP-Posting-Host: mZHKf6fCvs2mHEPxhjtOsQ.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; format=flowed; delsp=yes; charset=utf-8
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Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Wed, 5 Nov 2008 16:44:40 +0000 (UTC)
X-Notice: Filtered by postfilter v. 0.7.4
User-Agent: Opera Mail/9.60 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3526

Thanks everyone above for all your input and suggestions. Very useful. I
will get into it and do a few more tests.

From -2901778569435750749
X-Google-Thread: fc2a5,6e36b30586014e80
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
r66g2000hsg.googlegroups.com!not-for-mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
Date: Tue, 14 Oct 2008 06:12:42 -0700 (PDT)
Organization: http://groups.google.com
Lines: 2
Message-ID: <2094f061-9c07-488e-920f-c113d1b55152@r66g2000hsg.googlegroups.com>
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
<cfbc3b1a-5348-424c-9ea2-d808ef4dcebc@u28g2000hsc.googlegroups.com>
<16a3bee8-5fab-48f0-855f-f453c159d47e@t54g2000hsg.googlegroups.com>
<b7ccaf6d-961e-404e-8c30-a10e36f52fb1@b1g2000hsg.googlegroups.com>
<adcef3f2-40d0-4d81-a462-da264853dfef@k37g2000hsf.googlegroups.com>
<Xns9B2ECD5632AE2MDWN@194.177.96.78> <c5bf56af-597a-412f-976e-
f82a9a7265e4@d1g2000hsg.googlegroups.com>
<Xns9B31BF144518D2MDWN@194.177.96.78> <d1314eb0-8138-4a4c-8361-
f59d15455d25@f77g2000hsf.googlegroups.com>
<Xns9B32E1C6B39D82MDWN@194.177.96.78> <7c5a1a81-f131-4002-
b626-1f6b49b28e5a@p58g2000hsb.googlegroups.com>
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<Xns9B3480C7133D72MDWN@194.177.96.78>
NNTP-Posting-Host: 142.162.129.19
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1223989963 3850 127.0.0.1 (14 Oct 2008 13:12:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 14 Oct 2008 13:12:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r66g2000hsg.googlegroups.com; posting-host=142.162.129.19;
posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
CLR 2.0.50727; .NET CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:924

Lots of great comments and ideas in this thread; thanks. Terry

```
From -6156378090828612985
X-Google-Thread: fc2a5,ed200c69096e3c67
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w24g2000prd.googlegroups.com!not-for-
mail
From: wa2rqy <rlucch2098@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Needed: Cinch 10 pin female socket
Date: Tue, 14 Oct 2008 17:48:59 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <3a784a24-cc17-49e4-a6be-08a77e84ca77@w24g2000prd.googlegroups.com>
References: <74248669-09f1-44e4-b897-ffd775929454@z66g2000hsc.googlegroups.com>
     <5118e247-f7bd-4c9e-a4f5-bb0d5e2d6b8f@8g2000hse.googlegroups.com>
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1224031740 3843 127.0.0.1 (15 Oct 2008 00:49:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 15 Oct 2008 00:49:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w24g2000prd.googlegroups.com; posting-host=68.56.207.208;
     posting-account=teCHdAkAAADiA7mdK_5wT9MZS2G_a4v_
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.16)
     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:925
```

```
On Sep 28, 5:06 pm, raypsi <RBorow...@gmail.com> wrote:
> On Sep 20, 10:49 pm, wa2rqy <rlucch2...@aol.com> wrote:
>
> > For my power supply which feeds my Gonset G-76.
> > Appears that the last owner either removed the plastic pin retainer or
> > it fell out.
> > Now, there is nothing to support these female pins from wobbling
> > around & connector from falling off with poor connections to boot.
>
> Well if you has the shell,  any S-310 will work. It's all the same
> just
> the shell or the mounting is different
>
> I'd go wit the S-310-CCT
>
> 73 OM
>
> n8zu

Thanks to all that tried to help out.
```

I bought 2 females & now to put one on.
good news is that it now transmits, 60 watts AM & 70 watts out in CW
tune-up.
Now gotta get a decent antenna on it see how it "Hears"\
Tnx all.........
Rich WA2RQY

```
From -5639878091858161171
X-Google-Thread: fc2a5,17256ded65563e8c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!w1g2000prk.googlegroups.com!not-for-
mail
From: wa2rqy <rlucch2098@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Adonis AM-802 Desk Microphone
Date: Tue, 14 Oct 2008 18:03:21 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <608a3cfb-9871-42ff-b008-06f72998d7b7@w1g2000prk.googlegroups.com>
References: <gcnsgf$2j9$1$8302bc10@news.demon.co.uk>
NNTP-Posting-Host: 68.56.207.208
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1224032602 9346 127.0.0.1 (15 Oct 2008 01:03:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 15 Oct 2008 01:03:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w1g2000prk.googlegroups.com; posting-host=68.56.207.208;
     posting-account=teCHdAkAAADiA7mdK_5wT9MZS2G_a4v_
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.16)
     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3377
```

On Oct 10, 11:31 am, Ken <k...@g3msw.demon.co.uk> wrote:
> an anyone help with a scematic for this, please?

All sortsa info & schematics here on a lot of Adonis Mike's except
your model.
Maybe its a model number which is same as another.
Different numbers for different export ares but same mike, never know!
I have the 308 model as new here so I was interested in your quest to
look around the WWW.
I found this, might be a lead>
http://homepage.ntlworld.com/rg4wpw/date.html

GL........
Rich WA2RQY

```
From -6149744968294999178
X-Google-Thread: fc2a5,6e36b30586014e80
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!z6g2000pre.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
Date: Wed, 15 Oct 2008 03:27:06 -0700 (PDT)
Organization: http://groups.google.com
Lines: 41
Message-ID: <77c8af7e-92a3-497a-831b-aedc15f92085@z6g2000pre.googlegroups.com>
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
     <cfbc3b1a-5348-424c-9ea2-d808ef4dcebc@u28g2000hsc.googlegroups.com>
     <16a3bee8-5fab-48f0-855f-f453c159d47e@t54g2000hsg.googlegroups.com>
     <b7ccaf6d-961e-404e-8c30-a10e36f52fb1@b1g2000hsg.googlegroups.com>
     <adcef3f2-40d0-4d81-a462-da264853dfef@k37g2000hsf.googlegroups.com>
     <Xns9B2ECD5632AE2MDWN@194.177.96.78> <c5bf56af-597a-412f-976e-
f82a9a7265e4@d1g2000hsg.googlegroups.com>
     <Xns9B31BF144518D2MDWN@194.177.96.78> <d1314eb0-8138-4a4c-8361-
f59d15455d25@f77g2000hsf.googlegroups.com>
     <Xns9B32E1C6B39D82MDWN@194.177.96.78> <7c5a1a81-f131-4002-
b626-1f6b49b28e5a@p58g2000hsb.googlegroups.com>
     <22bd0d76-981f-4fce-bb3d-da3ac469afc2@r66g2000hsg.googlegroups.com>
     <Xns9B3480C7133D72MDWN@194.177.96.78>
NNTP-Posting-Host: 155.178.6.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1224066427 8450 127.0.0.1 (15 Oct 2008 10:27:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 15 Oct 2008 10:27:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z6g2000pre.googlegroups.com; posting-host=155.178.6.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3378

On Oct 11, 1:39=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> That's great news! =A0You could easily buck regulate the +15
> down for a filament supply as well.
>
> I've seen transformers with seperate primary and secondary
> windings. =A0If a company is building s standard product line
> with various outputs they'll sometimes do that. =A0Although it
> usually increases the leakage inductance so that's the down
> side. =A0Sometimes the output inductor and transformer can be
> combined.
>
> I hope this goes though. =A0I keep getting error 441 so I sent
> you an email regarding your last post.
>
> jimmi...@gmail.com wrote innews:22bd0d76-981f-4fce-bb3d-da3ac469afc2@r66g=
2000hsg.googlegroups.com:
>
>
>
> > This is just way to cool. I took a 500watt Lambmda 15 volt switcher I
> > had used to power a solidstate amp and wound another secondary on the
> > transformer. =A0I lost =A0count of the numer of turns, maybe 100, but
> > after filtering and rectifying im getting about 450 volts and it has
> > been running since about 9:30 AM 3hrs putting out 150mA.
>
> > These transformers look a little wierd They seem to be two sepated
> > coils fastened together on a frame. It looks like you could take the
> > secondary coil off and replace it if you wanted to.
> > Grumpy , are you familar with this.
>
> > Jimmie- Hide quoted text -
>
> - Show quoted text -

Well, The transformer winding doesn separate the way I thoufgt they
did. there is a pretty good sized gap betwen them,1/8" and it seems
one is a choke. I was confused because I have a couple of old scrap
power supplies that are made as previously described. They appeared to
be the same so I made a very incorrect assumption.

Jimmie



From 4467162581342550647
X-Google-Thread: 108122,120a9cd2d2994823,start
X-Google-Thread: fc2a5,120a9cd2d2994823,start
X-Google-Thread: 107ada,120a9cd2d2994823,start
X-Google-Thread: 110c99,120a9cd2d2994823,start
X-Google-Thread: 111320,120a9cd2d2994823,start
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!25g2000prz.googlegroups.com!not-for-
mail
From: tyreemand@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: BDSM in BDSM mpeg
Date: Wed, 15 Oct 2008 07:24:54 -0700 (PDT)
Organization: http://groups.google.com
Lines: 1
Message-ID: <20c82979-3d82-4393-9528-213833b26724@25g2000prz.googlegroups.com>
NNTP-Posting-Host: 92.112.204.219
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1224080694 26393 127.0.0.1 (15 Oct 2008 14:24:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 15 Oct 2008 14:24:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 25g2000prz.googlegroups.com; posting-host=92.112.204.219;
     posting-account=8N4mVgoAAABmLLkJQvSeZsuS_r9oM6nG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:716
rec.radio.amateur.homebrew:928 rec.radio.amateur.misc:1359 rec.running:4508
rec.scouting.issues:889

BDSM http://youtubeplayer.byethost9.com/jpeg/bdsm.html BDSM



From -8246978907179157454
X-Google-Thread: fc2a5,6e36b30586014e80
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
i24g2000prf.googlegroups.com!not-for-mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
Date: Wed, 15 Oct 2008 07:40:08 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <01a69e21-6f4f-472a-9865-0c8a1bdf55cf@i24g2000prf.googlegroups.com>
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
     <cfbc3b1a-5348-424c-9ea2-d808ef4dcebc@u28g2000hsc.googlegroups.com>
     <16a3bee8-5fab-48f0-855f-f453c159d47e@t54g2000hsg.googlegroups.com>
     <b7ccaf6d-961e-404e-8c30-a10e36f52fb1@b1g2000hsg.googlegroups.com>
     <adcef3f2-40d0-4d81-a462-da264853dfef@k37g2000hsf.googlegroups.com>
     <Xns9B2ECD5632AE2MDWN@194.177.96.78> <c5bf56af-597a-412f-976e-
f82a9a7265e4@d1g2000hsg.googlegroups.com>
     <Xns9B31BF144518D2MDWN@194.177.96.78> <d1314eb0-8138-4a4c-8361-
f59d15455d25@f77g2000hsf.googlegroups.com>
     <Xns9B32E1C6B39D82MDWN@194.177.96.78>
NNTP-Posting-Host: 142.162.129.19
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1224081609 21743 127.0.0.1 (15 Oct 2008 14:40:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 15 Oct 2008 14:40:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i24g2000prf.googlegroups.com; posting-host=142.162.129.19;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
```

User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 2.0.50727; .NET CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:929

On Oct 10, 1:11=A0am, Grumpy The Mule <s_foo...@foo.bar> wrote:
> I try to stay away from dumpsters but if I see anything electrical
> or electronic in one it's neigh impossible. (Nay impossible?????)
>

.
Hi Grumpy: Nags me too!!!!!! (OK spot the pun?)

But got to go; to unload my pickup of a free load of firewood got
yesterday (couldn't say no to a second free batch in a week)!

Gee there were two old SPS supplies lying there too; probably all
soaking wet! I didn't even look at the old 14 inch TV lying there as
well in the junk pile.

From -6245414200242598778
X-Google-Thread: fc2a5,6e36b30586014e80
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
Date: Thu, 16 Oct 2008 02:13:51 +0200 (CEST)
Organization: Mostly In Piles
Lines: 42
Message-ID: <Xns9B38C3A1A21B92MDWN@194.177.96.78>
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com> <cfbc3b1a-5348-424c-9ea2-d808ef4dcebc@u28g2000hsc.googlegroups.com> <16a3bee8-5fab-48f0-855f-f453c159d47e@t54g2000hsg.googlegroups.com> <b7ccaf6d-961e-404e-8c30-a10e36f52fb1@b1g2000hsg.googlegroups.com> <adcef3f2-40d0-4d81-a462-da264853dfef@k37g2000hsf.googlegroups.com> <Xns9B2ECD5632AE2MDWN@194.177.96.78> <c5bf56af-597a-412f-976e-f82a9a7265e4@d1g2000hsg.googlegroups.com> <Xns9B31BF144518D2MDWN@194.177.96.78> <d1314eb0-8138-4a4c-8361-f59d15455d25@f77g2000hsf.googlegroups.com> <Xns9B32E1C6B39D82MDWN@194.177.96.78> <01a69e21-6f4f-472a-9865-0c8a1bdf55cf@i24g2000prf.googlegroups.com>
NNTP-Posting-Host: onIfZbhu5JmoF6uUoqewdg.user.aioe.org
X-Complaints-To: abuse@aioe.org
NNTP-Posting-Date: Thu, 16 Oct 2008 00:13:51 +0000 (UTC)
User-Agent: Xnews/5.04.25
Xref: g2news1.google.com rec.radio.amateur.homebrew:930

Wet... well, I wouldn't pass them up!

I've salvaged a few pieces of gear from floods.
My most cherished HP RF sweep generator came out

of the mighty Mississippi river flooding in the
early 90's. First I carefully brush off the gunk
while washing with tap water. Then I flush with
DI or distilled water dry with a fan. Finally flush
with anhydrous isopropanol and dry with gentle warming.
After that a bit of lubriplate on any switch detents
or gears as needed. I take some things out first for
special treatment, like meter movements.

The distilled water flushes off the stuff we worry
about, ionic contamination and the alcohol removes
the water. At least that's what I hope for.

I'm trying to reform and not drag so much junk home.
Sometimes I can even pass up junked hardware without
flinching. With technical books of any sort I'm not
having much success resisting though.

Mmm! Free firewood. Which reminds me, I need to fill the
wood shed yet. Oak wilt disease is killing my trees but
at least I'll be warm.

terry <tsanford@nf.sympatico.ca> wrote in news:01a69e21-6f4f-472a-9865-0c8a1bdf55cf@i24g2000prf.googlegroups.com:

> .
> Hi Grumpy: Nags me too!!!!!! (OK spot the pun?)
>
> But got to go; to unload my pickup of a free load of firewood got
> yesterday (couldn't say no to a second free batch in a week)!
>
> Gee there were two old SPS supplies lying there too; probably all
> soaking wet! I didn't even look at the old 14 inch TV lying there as
> well in the junk pile.
>

From -5553103008566814716
X-Google-Thread: fc2a5,6e36b30586014e80
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!d45g2000hsc.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
Date: Thu, 16 Oct 2008 07:45:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 52
Message-ID: <83670093-581e-4bb6-986b-6160c1e8a166@d45g2000hsc.googlegroups.com>

```
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
     <cfbc3b1a-5348-424c-9ea2-d808ef4dcebc@u28g2000hsc.googlegroups.com>
     <16a3bee8-5fab-48f0-855f-f453c159d47e@t54g2000hsg.googlegroups.com>
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f82a9a7265e4@d1g2000hsg.googlegroups.com>
     <Xns9B31BF144518D2MDWN@194.177.96.78> <d1314eb0-8138-4a4c-8361-
f59d15455d25@f77g2000hsf.googlegroups.com>
     <Xns9B32E1C6B39D82MDWN@194.177.96.78>
<01a69e21-6f4f-472a-9865-0c8a1bdf55cf@i24g2000prf.googlegroups.com>
     <Xns9B38C3A1A21B92MDWN@194.177.96.78>
NNTP-Posting-Host: 155.178.4.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1224168346 20806 127.0.0.1 (16 Oct 2008 14:45:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 16 Oct 2008 14:45:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d45g2000hsc.googlegroups.com; posting-host=155.178.4.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:931

On Oct 15, 8:13=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> Wet... well, I wouldn't pass them up!
>
> I've salvaged a few pieces of gear from floods.
> My most cherished HP RF sweep generator came out
> of the mighty Mississippi river flooding in the
> early 90's. =A0First I carefully brush off the gunk
> while washing with tap water. =A0Then I flush with
> DI or distilled water dry with a fan. =A0Finally flush
> with anhydrous isopropanol and dry with gentle warming.
> After that a bit of lubriplate on any switch detents
> or gears as needed. =A0I take some things out first for
> special treatment, like meter movements.
>
> The distilled water flushes off the stuff we worry
> about, ionic contamination and the alcohol removes
> the water. =A0At least that's what I hope for.
>
> I'm trying to reform and not drag so much junk home.
> Sometimes I can even pass up junked hardware without
> flinching. =A0With technical books of any sort I'm not
> having much success resisting though.
>
> Mmm! Free firewood. =A0Which reminds me, I need to fill the
> wood shed yet. =A0Oak wilt disease is killing my trees but
> at least I'll be warm.
```

>
> terry <tsanf...@nf.sympatico.ca> wrote in news:01a69e21-6f4f-472a-9865-
> 0c8a1bdf5...@i24g2000prf.googlegroups.com:
>
>
>
> > .
> > Hi Grumpy: Nags me too!!!!!! (OK spot the pun?)
>
> > But got to go; to unload my pickup of a free load of firewood got
> > yesterday (couldn't say no to a second free batch in a week)!
>
> > Gee there were two old SPS supplies lying there too; probably all
> > soaking wet! I didn't even look at the old 14 inch TV lying there as
> > well in the junk pile.- Hide quoted text -
>
> - Show quoted text -

About 6 years ago while hauling off some junk from my in-laws home near Jacksonsonville Fl some stuff caught my eye at the dump. There were 3 tektronics scopes, a singer communications monitor and an audio test set. All worked and some of the pieces had current calibratiton stickers. Up until then I had been grumbling alot about wasting days of my vaction time cleaning.

Jimmie

```
From 8098308660313110815
X-Google-Thread: 1109af,eeeec9fd7572b57b,start
X-Google-Thread: 107ada,eeeec9fd7572b57b,start
X-Google-Thread: 107cee,eeeec9fd7572b57b,start
X-Google-Thread: f4e7d,eeeec9fd7572b57b,start
X-Google-Thread: 1130cb,eeeec9fd7572b57b,start
X-Google-Thread: fc2a5,eeeec9fd7572b57b,start
X-Google-Thread: fc8b1,eeeec9fd7572b57b,start
X-Google-Thread: 10b9c8,eeeec9fd7572b57b,start
X-Google-Attributes:
gid1109af,gid107ada,gid107cee,gidf4e7d,gid1130cb,gidfc2a5,gidfc8b1,gid10b9c8,domai
nid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!transit3.readnews.com!
news-xxxfer.readnews.com!news-out.readnews.com!transit4.readnews.com!panix!bloom-
beacon.mit.edu!senator-bedfellow.mit.edu!dreaderd!not-for-mail
Newsgroups:
rec.radio.swap,rec.radio.amateur.misc,sci.electronics.misc,ne.forsale,ne.general,r
ec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.info
Subject: ** FLEA at MIT **     Sunday October 19th   Cambridge MA
Summary: Buy Sell SWAP Ham Radio  Electronics Computers 9AM - 2PM
Expires: 10/22/08
Followup-To: poster
Approved: rec-radio-info@panix.com
Distribution: na
```

Organization: Massachvsetts Institvte of Technology
Keywords: Hamfest Fleamarket SWAPFEST Computers Ham Radio Electronics
From: w1gsl@mit.edu (Steven L. Finberg)
Date: 17 Oct 2008 09:19:36 GMT
Lines: 120
Message-ID: <48f858a8$0$298$b45e6eb0@senator-bedfellow.mit.edu>
NNTP-Posting-Host: BIOHAZARD-CAFE.MIT.EDU
X-Trace: 1224235176 senator-bedfellow.mit.edu 298 18.7.18.67
Xref: g2news1.google.com rec.radio.swap:725 rec.radio.amateur.misc:1453
sci.electronics.misc:1316 ne.forsale:139 ne.general:764
rec.radio.amateur.homebrew:932 rec.radio.amateur.boatanchors:1121
rec.radio.info:287

This coming Sunday....
the season's last.... FLEA at MIT

****
****

Summary: Buy Sell SWAP   Ham Radio   Electronics Computers   9AM - 2PM

*** !!!! In our Traditional GARAGE and the adjacent lot !!!! ****
so come rain or shine or super heat the Flea is on !!!

!! ** More Buyers PARKING is available ** for details see
http://web.mit.edu/w1gsl/Public/flyer

<FF>
********* $1 buyers discount with hardcopy of this notice ********

COMPUTERS - ELECTRONICS - HAM RADIO - COMPUTERS - ELECTRONICS - HAM RADIO

FLEA all SUMMER at MIT
Sunday October 19th 2008
9AM-2PM

Come to the city for a great flea - plenty of free parking.

MIT's electronics and ham radio flea will take
place on the third Sunday of each month this summer,
April thru October.

There is tailgate space for over 600 sellers and
free, off-street parking for >2000 cars!

Buyers admission is $5 (you get $1 off if
you're lucky enough to have a copy of our ad)
and sellers spaces are $20 for the first and
$15 for each additional at the gate.

The flea will be held on Albany between Mass Ave and
Main streets in Cambridge; right in the Kendall
Square area from 9AM to 2PM, with sellers set-up

time starting at 7AM.

*** Attention Sellers ***
Prepaid vendors.. Season Pass or monthly,
will be admitted FIRST.
Separate lines will form prior to gate opening
for prepaid and nonprepaid vendors

!! RAIN or SHINE !! Have no fear of rain, a covered well illuminated tailgate area is available for all sellers (6'8" clearance).

Talk-in: 145.23- (PL 88.5) W1BOS/R and
W1XM/R-449.725/444.725 (PL 114.8/2A).

Sponsors: MIT Electronics Research Society
MIT UHF Repeater Association (W1XM)
MIT Radio Society (W1MX)
Harvard Wireless Club (W1AF)

For more info / advanced reservations 617 253 3776 (M-F 9-5)

********** $1 buyers discount with hard copy of this notice ************

<FF>

Mail the coupon below by the 5th to be a Prepaid Vendor.

FLEA at MIT   2008 Rates

SELLERS

To use your prepaid spaces the named vendor MUST be present.
Rates include one admission per space.

Advance $17 First space
$12 Additional Spaces
Must be received by the 10th of the month.

Gate Admission $20 First Space
$15 Additional Spaces
Admission is after the prepaid vendors.

Early Bird Buyer -Admission after the prepaid vendor line is admitted. ~ 7:15AM
** You may not sell. **
$15 per person at the gate.
$70 Season Early Bird Buyer

cut and return

```
**************************************************************************
FLEA at MIT   2008       Advance Space Application             7/08

   ____April    ____May    ____June   ____ July  ____Aug   ___Sept   ____Oct
          @ $17  for the first each month  + $12 each additional

Name    ________________________     Call  __________     $ Included_________

Address ________________________     Phone  __________     Make Check to
                                                         The MIT Radio Society
City  ____________________ State  _______  Zip  _______    PO Box 397082
                                                           Cambridge MA 02139
E-mail  _____________________________________________
```

```
*******************************************************************************
Steve Finberg                      W1GSL                      w1gsl@mit.edu
PO Box 82 MIT Br           Cambridge MA  02139-7082            617 258 3754
*******************************************************************************
```

```
From 385549945605369854
X-Google-Thread: 108122,2005c1a9fcec6bb0,start
X-Google-Thread: fc2a5,2005c1a9fcec6bb0,start
X-Google-Thread: 107ada,2005c1a9fcec6bb0,start
X-Google-Thread: 110c99,2005c1a9fcec6bb0,start
X-Google-Thread: 111320,2005c1a9fcec6bb0,start
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y29g2000hsf.googlegroups.com!not-for-
mail
From: tyreemand@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: Looking for bondage webcam?
Date: Fri, 17 Oct 2008 04:11:42 -0700 (PDT)
Organization: http://groups.google.com
Lines: 2
Message-ID: <934c1f33-1a94-4163-9f2a-4499a8ef2c30@y29g2000hsf.googlegroups.com>
NNTP-Posting-Host: 92.112.134.178
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
```

```
X-Trace: posting.google.com 1224241902 16251 127.0.0.1 (17 Oct 2008 11:11:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 17 Oct 2008 11:11:42 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y29g2000hsf.googlegroups.com; posting-host=92.112.134.178;
     posting-account=8N4mVgoAAABmLLkJQvSeZsuS_r9oM6nG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:718
rec.radio.amateur.homebrew:933 rec.radio.amateur.misc:1454 rec.running:4546
rec.scouting.issues:891
```

View explicit live Webcams, meet for amateur scenes!
http://puntyhouse.byethost11.com/altcam.htm

```
From -8008083013687110611
X-Google-Thread: fc2a5,40e6503a39d1bf2a,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y29g2000hsf.googlegroups.com!not-for-
mail
From: Fritze <fritzoid@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: IC-R2500 RS-232/Autotune communication standard
Date: Fri, 17 Oct 2008 09:22:27 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <c523949b-2e60-41ec-81e4-552af2babbb4@y29g2000hsf.googlegroups.com>
NNTP-Posting-Host: 128.255.17.176
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1224260547 14364 127.0.0.1 (17 Oct 2008 16:22:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 17 Oct 2008 16:22:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y29g2000hsf.googlegroups.com; posting-host=128.255.17.176;
     posting-account=o6ACgQoAAAA8waULyls6aJDiFON2g2Da
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.1)
     Gecko/2008070208 Firefox/3.0.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3385
```

Hello.

I have a IC-R2500, and I'm trying to establish a link between the
radio and my computer.Does anyone know the standard that dictates the
RS-232 packets that are sent between the radio and the computer?

Also...I've seen that the most common approach is communicating over a
CT-17 cable (1/8 stereo to 9pin female serial). Does anyone know
if this is connection is straight through, or is there some sort of
voltage shift?

Thanks
nathan-fritze@engineering.uiowa.edu

From -8086823757302039253
X-Google-Thread: fc2a5,a038701781bccab2,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!post02.iad!not-for-mail
From: Jim <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Homebrewing a "Hazer" antenna tram system
Date: Fri, 17 Oct 2008 14:11:55 -0500
Message-ID: <rkohf4dve8i57jdmn3ooa194de452ltdil@4ax.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 12
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:3386

I was considering the purchase of a Hazer until I read the numerous
down reveiws with quality, service, documentation and jamming
incidents too numerous to mention.

Anyway, there was mention of plans out in the ham fraternity for
homebrewing an improved reliable version, so was wondering if anyone
could steer me in the right direction? I'm not too good at web
searching.

73,

From 386127499570361477
X-Google-Thread: fc2a5,a038701781bccab2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!
tmp-post01.iad!news.highwinds-media.com!not-for-mail
Date: Fri, 17 Oct 2008 18:02:42 -0400
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>

User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrewing a "Hazer" antenna tram system
References: <rkohf4dve8i57jdmn3ooa194de452ltdil@4ax.com>
In-Reply-To: <rkohf4dve8i57jdmn3ooa194de452ltdil@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 25
Message-ID: <48f90b77$0$5461$9a6e19ea@unlimited.newshosting.com>
Organization: Newshosting.com - Highest quality at a great price! www.newshosting.com
NNTP-Posting-Host: 70.121.205.178
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:936

Jim wrote:
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> searching.
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> 73,
>
>

They had a second scheme that consisted of a frame that traveled up the legs of one face of the tower on rails. I don't think they ever sold any, but it looks like an alternative that could be homebrewed.

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From -449970199955571017
X-Google-Thread: fc2a5,a810bd84ad10f067,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y71g2000hsa.googlegroups.com!not-for-mail
From: Vintage <radiovintage2000@yahoo.it>
Newsgroups: rec.radio.amateur.homebrew
Subject: Sale Tubes NOS
Date: Fri, 17 Oct 2008 23:51:13 -0700 (PDT)

```
Organization: http://groups.google.com
Lines: 6
Message-ID: <cacaa2d7-4a21-43da-a67d-2a3fc0aa51d6@y71g2000hsa.googlegroups.com>
NNTP-Posting-Host: 87.7.232.184
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1224312673 5081 127.0.0.1 (18 Oct 2008 06:51:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 18 Oct 2008 06:51:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y71g2000hsa.googlegroups.com; posting-host=87.7.232.184;
     posting-account=RipOkAoAAAB32s8w43jyZFhxuNS9HKXD
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
     SV1),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3388

J sell Vacuum Tube  NOS  new in  Box , approximately 1000 pcs ,
Sell in stoch or single  some examples ( 4x150 / 5933wa - 807 / 3B28 /
7403 / 2050 / 5852 Bendix )
Plase write directly to my e_mail  radiovintage2000@yahoo.it
Tnx
73  Frank



From 7426154567406951216
X-Google-Thread: fc2a5,a038701781bccab2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!g61g2000hsf.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrewing a "Hazer" antenna tram system
Date: Sat, 18 Oct 2008 04:22:08 -0700 (PDT)
Organization: http://groups.google.com
Lines: 44
Message-ID: <38b13dc8-773c-4879-aad4-65798d634427@g61g2000hsf.googlegroups.com>
References: <rkohf4dve8i57jdmn3ooa194de452ltdil@4ax.com>
<48f90b77$0$5461$9a6e19ea@unlimited.newshosting.com>
NNTP-Posting-Host: 155.178.4.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1224328928 6601 127.0.0.1 (18 Oct 2008 11:22:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 18 Oct 2008 11:22:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g61g2000hsf.googlegroups.com; posting-host=155.178.4.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:938

On Oct 17, 6:02=A0pm, RFI-EMI-GUY <Rhyol...@NETTALLY.COM> wrote:
> Jim wrote:
> > I was considering the purchase of a Hazer until I read the numerous
> > down reveiws with quality, service, documentation and jamming
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> > searching.
>
> > 73,
>
> They had a second scheme that consisted of a frame that traveled up the
> =A0 legs of one face of the tower on rails. I don't think they ever sold
> any, but it looks like an alternative that could be homebrewed.
>
> --
> Joe Leikhim K4SAT
> "The RFI-EMI-GUY"=A9
>
> "Treason doth never prosper: what's the reason?
> For if it prosper, none dare call it treason."
>
> "Follow The Money" =A0;-P

I used to know  some guys that built  a few while serving as
full time techs for the national guard. They bought one and then
copied
it making improvements mostly in the form of better quality parts.
Fortunately for them that had access to some pretty decent equipment,
welders, lathes, drill presses, nearly unlimited parts resources. My
contribution to the project was designing a thrust bearing that would
survive a salt marsh environment. When I was asked for an idea on it I
had just overhauled a motorcycle clutch so I thought OK use the same
idea for the clutch but instead of using something that has a lot of
friction use something really slick between metal plates. This took
the form of three or four stainless steel plates separated by sheets
of Teflon. Its my understanding that these devices survived the next
eight years with zero maintenance there use terminated only because
they were no longer required.


Jimmie


From 5323194365871326278
X-Google-Thread: fc2a5,a038701781bccab2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2!
nx02.iad.newshosting.com!newshosting.com!post01.iad!post02.iad!not-for-mail
From: Jim <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrewing a "Hazer" antenna tram system
Date: Sat, 18 Oct 2008 11:50:27 -0500
Message-ID: <v42kf49m2sk5lgla8su7ep3a2hemugdaci@4ax.com>
References: <rkohf4dve8i57jdmn3ooa194de452ltdil@4ax.com>
<48f90b77$0$5461$9a6e19ea@unlimited.newshosting.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 33
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:3390
```

Hello Joe;

Thanks for the tip, I do remember the rail system now that you mention it. It seems a more doable project, less complicated and would make positive contact with the rails rather than haphazard like mentioned in all the reviews and user comments.

On Fri, 17 Oct 2008 18:02:42 -0400, RFI-EMI-GUY
<Rhyolite@NETTALLY.COM> wrote:

>Jim wrote:
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```
From 6713148943051416178
X-Google-Thread: fc2a5,a038701781bccab2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!m36g2000hse.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrewing a "Hazer" antenna tram system
Date: Sat, 18 Oct 2008 11:20:23 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
Message-ID: <97635ff5-eb6e-412a-88dd-b86228a8510a@m36g2000hse.googlegroups.com>
References: <rkohf4dve8i57jdmn3ooa194de452ltdil@4ax.com>
<48f90b77$0$5461$9a6e19ea@unlimited.newshosting.com>
     <38b13dc8-773c-4879-aad4-65798d634427@g61g2000hsf.googlegroups.com>
NNTP-Posting-Host: 155.178.4.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1224354023 19200 127.0.0.1 (18 Oct 2008 18:20:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 18 Oct 2008 18:20:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m36g2000hse.googlegroups.com; posting-host=155.178.4.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:940

On Oct 18, 7:22=A0am, jimmi...@gmail.com wrote:
> On Oct 17, 6:02=A0pm, RFI-EMI-GUY <Rhyol...@NETTALLY.COM> wrote:
>
>
>
>
>
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```

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> idea for the clutch but instead of using something that has a lot of
> friction use something really slick between metal plates. This took
> the form of three or four stainless steel plates separated by sheets
> of Teflon. Its my understanding that these devices survived the next
> eight years with zero maintenance there use terminated only because
> they were no longer required.
>
> Jimmie- Hide quoted text -
>
> - Show quoted text -

One of the thoughts I have had on building a Hazer is to slide a piece
of 45G tower section over my 25G tower. I guess I will have to buy a
short tower section to see if this is plausable. Im sure guides and
roller additions will be required but this may be a good place to
start a design. This is something I will probably try at my next home
as for now am I still able to climb.

Jimmie

From 4263767184451955344
X-Google-Thread: 108122,51b2d20164d48a4b,start
X-Google-Thread: fc2a5,51b2d20164d48a4b,start
X-Google-Thread: 107ada,51b2d20164d48a4b,start
X-Google-Thread: 110c99,51b2d20164d48a4b,start
X-Google-Thread: 111320,51b2d20164d48a4b,start
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!2g2000hsn.googlegroups.com!not-for-mail

```
From: tyreemand@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: Scandalous video reason Divorce Madonna and Ricchi
Date: Tue, 21 Oct 2008 04:11:11 -0700 (PDT)
Organization: http://groups.google.com
Lines: 4
Message-ID: <f33c5746-281a-4269-9137-c2ddf7695dd4@2g2000hsn.googlegroups.com>
NNTP-Posting-Host: 92.112.134.237
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1224587472 28657 127.0.0.1 (21 Oct 2008 11:11:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 21 Oct 2008 11:11:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 2g2000hsn.googlegroups.com; posting-host=92.112.134.237;
     posting-account=8N4mVgoAAABmLLkJQvSeZsuS_r9oM6nG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:734
rec.radio.amateur.homebrew:941 rec.radio.amateur.misc:1487 rec.running:4638
rec.scouting.issues:901

http://www.madonascandal.byethost31.com  Madonna page featuring
exclusive Madonna videos, Madonna photos, and Madonna news,Madonna
videos, Madonna news, Madonna photos, Madonna videos, Madonna gossip.
Scandalous video reason end-marriage Madonna and Ricchi



From 1660629478155692990
X-Google-Thread: fc2a5,d8e74d0f857b7df2,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!b31g2000prf.googlegroups.com!not-for-
mail
From: legalmind <tedlacosta@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: McCain is a fraud just like his campaign
Date: Tue, 21 Oct 2008 15:25:37 -0700 (PDT)
Organization: http://groups.google.com
Lines: 120
Message-ID: <a55a10eb-e5a1-428e-aa50-abe07b0c2264@b31g2000prf.googlegroups.com>
NNTP-Posting-Host: 71.236.211.7
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1224627937 24637 127.0.0.1 (21 Oct 2008 22:25:37 GMT)
X-Complaints-To: groups-abuse@google.com
```

```
NNTP-Posting-Date: Tue, 21 Oct 2008 22:25:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b31g2000prf.googlegroups.com; posting-host=71.236.211.7;
     posting-account=yEK4vgoAAAAND_jdsSO_-Zr44o2h82G1
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:942
```

However, John McCain's actual behavior from October to December 1967 is quite different from the Navy's version of events.

On October 27, 1967, four days after being shot down, McCain called for a North Vietnamese guard. He told the officer, "O.K., I'll give you military information if you will take me to the hospital." -U.S. News and World Report, May 14, 1973 article written by former POW John McCain

McCain was taken to Gai Lam military hospital. (U.S. government documents) "Demands for military information were accompanied by threats to terminate my medical treatment if I [McCain] did not cooperate. Eventually, I gave them my ship's name and squadron number, and confirmed that my target had been the power plant." Page 193-194, Faith of My Fathers by John McCain

On Nov. 9, 1967, Hanoi press began quoting the seriously injured McCain giving specific military information.

One report dated read, "To a question of the correspondent, McCain answered: 'My assignment to the Oriskany, I told myself, was due to serious losses in pilots, which were sustained by this aircraft carrier (due to its raids on the North Vietnam territory - VNA) and which necessitated replacements.

"'From 10 to 12 pilots were transferred like me from the Forrestal to the Oriskany.

"'Before I was shot down, we had made several sorties. Altogether, I made about 23 flights over North Vietnam.'"

In that report, McCain was quoted describing the number of aircraft in his flight, information about rescue ships, and the order of which his attack was supposed to take place.

Through the Freedom of Information Act, the U.S. Veteran Dispatch acquired a declassified Department of Defense (DOD) transcript of an interview prominent French television reporter Francois Chalais had with McCain.

Chalais told of his private interview with POW McCain in a series titled Life in Hanoi, which was aired in Europe. In the series, Chalais said his meeting with McCain was "a meeting which will leave its mark on my life."

"My meeting with John Sidney McCain was certainly one of those meetings which will affect me most profoundly for the rest of my life.
I had asked the North Vietnamese authorities to allow me to personally
interrogate an American prisoner. They authorized me to do so.

"When night fell, they took me---without any precautions or mystery--to a hospital near the Gia Lam airport reserved for the military. (passage omitted) The officer who receives me begins: I ask you not to
ask any questions of political nature. If this man replies in a way unfavorable to us, they will not hesitate to speak of 'brainwashing' and conclude that we threatened him.

"'This John Sidney McCain is not an ordinary prisoner. His father is none other than Admiral Edmond John McCain, commander in chief of U.S.
naval forces in Europe. (passage omitted)'"

". . . Many visitors came to talk to me [John McCain]. Not all of it was for interrogation. Once a famous North Vietnamese writer-an old man with a Ho Chi Minh beard-came to my room, wanting to know all about Ernest Hemingway . . . Others came to find out about life in the
United States.

"They figured because my father had such high military rank that I was
of the royalty or governing circle . . . One of the men who came to see me, whose picture I recognized later, was Gen. Vo Nguyen Giap, the
hero of Dienbienphu." U.S. News and World Report, May 14, 1973 article
written by former POW John McCain

December 1967, Vietnamese doctors operate (early December) on McCain's Leg. Later that month, six weeks after he was shot down, McCain was taken from the hospital and delivered to Room No. 11 of "The Plantation" into the hands of two other U.S. POWs, Air Force majors George "Bud" Day and Norris Overly. They helped further nurse him along until he was eventually able to walk by himself. --Faith of My Fathers by John McCain

Read retired Army Col. David Hackworth's opinion of Sen. McCain's medals.

STAY TUNED, MORE OF MCCAIN'S CITATIONS WILL BE POSTED HERE SOON

Ted Sampley
publisher

```
From -7717519317304364587
X-Google-Thread: fc2a5,b94e7ac319478df2,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!u57g2000hsf.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: hp410C
Date: Wed, 22 Oct 2008 11:14:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 12
Message-ID: <19cfd5de-071b-4950-8506-16d17cf31224@u57g2000hsf.googlegroups.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1224699260 21249 127.0.0.1 (22 Oct 2008 18:14:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 22 Oct 2008 18:14:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u57g2000hsf.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:943
```

The EA53 detector in my HP410C finally went bad. I was hoping someone knew where I could find one at a cheap price or maybe replacement circuit. The last time it went bad I paid over $100 to replace it and it still looks like thats about what they go for now. I only occasioally use it for work over 150Mhz so if a less expensive detector or probe could be had I would be interested even if it was frequency limited compared to the 410.

Thanks much

Jimmie

From -7585344760210499474
X-Google-Thread: fc2a5,b94e7ac319478df2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <19cfd5de-071b-4950-8506-16d17cf31224@u57g2000hsf.googlegroups.com>
Subject: Re: hp410C
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <4OLLk.344948$TT4.318665@attbi_s22>
NNTP-Posting-Host: 12.219.130.17
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1224706304 12.219.130.17 (Wed, 22 Oct 2008 20:11:44 GMT)
NNTP-Posting-Date: Wed, 22 Oct 2008 20:11:44 GMT
Organization: AT&T ASP.att.net
Date: Wed, 22 Oct 2008 20:11:44 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:944

<jimmie68@gmail.com> wrote in message news:19cfd5de-071b-4950-8506-16d17cf31224@u57g2000hsf.googlegroups.com...

> The EA53 detector in my HP410C finally went bad. I was hoping someone
> knew where I could find one at a cheap price or maybe replacement
> circuit. The last time it went bad I paid over $100 to replace it and
> it still looks like thats about what they go for now. I only
> occasioally use it for work over 150Mhz so if a less expensive
> detector or probe could be had I would be interested even if it was
> frequency limited compared to the 410.
>
> Thanks much
>

> Jimmie

Google KA7EXM. Good to better than 500 MHz.
W4ZCB
>

```
From 7431412003069537122
X-Google-Thread: 108122,4b7fdd235427f948,start
X-Google-Thread: fc2a5,4b7fdd235427f948,start
X-Google-Thread: 107ada,4b7fdd235427f948,start
X-Google-Thread: 110c99,4b7fdd235427f948,start
X-Google-Thread: 111320,4b7fdd235427f948,start
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y71g2000hsa.googlegroups.com!not-for-
mail
From: tyreemand@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: BDSM HARDCORE 1 Tb movi
Date: Thu, 23 Oct 2008 06:23:23 -0700 (PDT)
Organization: http://groups.google.com
Lines: 2
Message-ID: <2a306d75-2c7c-444f-9955-00dd69e400a4@y71g2000hsa.googlegroups.com>
NNTP-Posting-Host: 92.112.136.140
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1224768203 22812 127.0.0.1 (23 Oct 2008 13:23:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 23 Oct 2008 13:23:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y71g2000hsa.googlegroups.com; posting-host=92.112.136.140;
     posting-account=8N4mVgoAAABmLLkJQvSeZsuS_r9oM6nG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR
3.5.30729),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:739
rec.radio.amateur.homebrew:945 rec.radio.amateur.misc:1494 rec.running:4706
rec.scouting.issues:906
```

http://traxanki.byethost15.com/bdsm.htm BDSM   http://traxanki.byethost15.com/hardcore.htm
HARDCORE http://s0x0.blogspot.com http://groups.google.com/group/porntube-best-movies-collection

```
From -4022033130469457369
X-Google-Thread: fc2a5,40b331647bfbb4ad,start
X-Google-Thread: fcc6e,40b331647bfbb4ad,start
X-Google-Thread: 112d1e,40b331647bfbb4ad,start
X-Google-Thread: 108122,40b331647bfbb4ad,start
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!postnews.google.com!k37g2000hsf.googlegroups.com!not-for-
mail
From: dgleeson422111 <dgleeson3@eircom.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
Subject: 868MHz Propagation problem
Date: Fri, 24 Oct 2008 02:14:24 -0700 (PDT)
Organization: http://groups.google.com
Lines: 50
Message-ID: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
NNTP-Posting-Host: 84.203.44.22
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1224839664 7254 127.0.0.1 (24 Oct 2008 09:14:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 24 Oct 2008 09:14:24 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k37g2000hsf.googlegroups.com; posting-host=84.203.44.22;
     posting-account=bpnzCwoAAAAp-CsLugagnABuu8cufJpF
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.0; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:946
rec.radio.amateur.antenna:4895 sci.electronics.design:37710
rec.radio.amateur.equipment:743
```

Hello All

We have a propagation issue that is confusing us. We have two 868MHz modules on test, each capable of 500mW transmission.

We are testing to find the range of communication. We are testing them as follows. One remains in our office while the other is taken to the street outside. we are communicating charecter strings such as "Im at the lamp post number 1" etc. There is somebody at each end sending text strings in a continuous conversation. There is no protocol, error checking or error recovery.

What we have repetadly found is that the radio in the office can receive long after the radio in the street has stopped receiving. (The person with the radio in the street is moving away from the office.)

The radios are the same and the power supplies to the radios are the same. Indeed switching the radios gives the same effect.

The propagation paths between the two radios are the same in terms of distance. However the radio signal transmitted from the office travels through walls first before then traveling through open space. Its the opposite for the radio in the street, firstly traveling through space and then through the walls in the office.

We did think we had identified an interfeering source in one direction (when moving away from the office) so we started moving in the opposite direction. We found exactly the same effect.

Are we getting interfeerance from GSM, ISM or Paging?

As far as GSM bands go in Europe 890=96915 MHz OR 1710=961785 MHz So these shouldnt be our problem.

ISM is where we intend to operate and the greatest band occupancy should be 10%. So we should get communication even though we would get some interfeerance.

Paging - well this has very much gone out of fashion in Europe. But even if it was the cause then wouldnt it be intermittant communication. We have a constant problem.

Can anyone shed light on this phenomonon? Is it an issue of wireless propagation that Im not familiar with or is it Interfeerance?

Best regards, and thanks for any input.

Denis
____
http://www.CentronSolutions.com

From -8908683147912758572
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.brightview.com!news.brightview.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 24 Oct 2008 04:42:10 -0500
From: HighlandObserver@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 868MHz Propagation problem
Date: Fri, 24 Oct 2008 10:42:10 +0100
Sender: HighlandObserver@gmail.com
Reply-To: HighlandObserver@gmail.com
Message-ID: <6363g41rbjccfmgi365k9844gir9h1fm5m@4ax.com>
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
X-Newsreader: Forte Agent 5.00/32.1160
MIME-Version: 1.0

```
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 7
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 194.105.190.17
X-Trace: sv3-1KERXdN2NdpfyZnEFU4e9OxPYkLVdTUk6/JgRJv0bAJLUXmWKLtU/
YXny2P7BcB1cpM+p45+N5/IPDU!qRPYdJh3CR7nd7orJiCW7VXzSATkC5un5mBLUcUmF+UbC/
pdUk6AXj+DJ6WJvBGIijVUSX7Su1e2!Ds5MEJ+u2A58urazPOMFHUTNER5vTKs0xvhnPumLIMlZ
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:947

On Fri, 24 Oct 2008 02:14:24 -0700 (PDT), dgleeson422111
<dgleeson3@eircom.net> wrote:

>Can anyone shed light on this phenomonon? Is it an issue of wireless
>propagation that Im not familiar with or is it Interfeerance?

Nope a question of height



From -7704472647441053646
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!npeer02.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
post02.iad.highwinds-media.com!newsfe12.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
<6363g41rbjccfmgi365k9844gir9h1fm5m@4ax.com>
Subject: Re: 868MHz Propagation problem
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <b9hMk.22079$YN3.15532@newsfe12.iad>
NNTP-Posting-Host: 72.192.52.79
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe12.iad 1224842951 72.192.52.79 (Fri, 24 Oct 2008 10:09:11 UTC)
NNTP-Posting-Date: Fri, 24 Oct 2008 10:09:11 UTC
Organization: Cox
Date: Fri, 24 Oct 2008 06:08:58 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:948


<HighlandObserver@gmail.com> wrote in message
news:6363g41rbjccfmgi365k9844gir9h1fm5m@4ax.com...
```

```
> On Fri, 24 Oct 2008 02:14:24 -0700 (PDT), dgleeson422111
> <dgleeson3@eircom.net> wrote:
>
>>Can anyone shed light on this phenomonon? Is it an issue of wireless
>>propagation that Im not familiar with or is it Interfeerance?
>
> Nope a question of height

Shouldn't the path be reciprical?
```

```
From -721931220812269633
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!kanaga.switch.ch!
switch.ch!news.rediris.es!news.cesca.es!news.upc.es!not-for-mail
From: oopere <me@somewhere.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
Subject: Re: 868MHz Propagation problem
Date: Fri, 24 Oct 2008 12:57:40 +0200
Organization: Universitat Politecnica de Catalunya
Lines: 59
Message-ID: <gds9n4$2vl$1@defalla.upc.es>
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
NNTP-Posting-Host: caos.upc.es
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252; format=flowed
Content-Transfer-Encoding: 8bit
X-Trace: defalla.upc.es 1224845860 3061 147.83.101.203 (24 Oct 2008 10:57:40 GMT)
X-Complaints-To: newsmngr@upc.es
NNTP-Posting-Date: Fri, 24 Oct 2008 10:57:40 +0000 (UTC)
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
In-Reply-To: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:949
rec.radio.amateur.antenna:4896 sci.electronics.design:37712
rec.radio.amateur.equipment:744
```

```
dgleeson422111 wrote:
> Hello All
>
> We have a propagation issue that is confusing us. We have two 868MHz
```

> modules on test, each capable of 500mW transmission.
>
> We are testing to find the range of communication. We are testing them
> as follows. One remains in our office while the other is taken to the
> street outside. we are communicating charecter strings such as "Im at
> the lamp post number 1" etc. There is somebody at each end sending
> text strings in a continuous conversation. There is no protocol, error
> checking or error recovery.
>
> What we have repetadly found is that the radio in the office can
> receive long after the radio in the street has stopped receiving. (The
> person with the radio in the street is moving away from the office.)
>
> The radios are the same and the power supplies to the radios are the
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>
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> distance. However the radio signal transmitted from the office travels
> through walls first before then traveling through open space. Its the
> opposite for the radio in the street, firstly traveling through space
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>
> We did think we had identified an interfeering source in one direction
> (when moving away from the office) so we started moving in the
> opposite direction. We found exactly the same effect.
>
> Are we getting interfeerance from GSM, ISM or Paging?
>
> As far as GSM bands go in Europe 890�915 MHz OR 1710�1785 MHz So these
> shouldnt be our problem.
>
> ISM is where we intend to operate and the greatest band occupancy
> should be 10%. So we should get communication even though we would get
> some interfeerance.
>
> Paging - well this has very much gone out of fashion in Europe. But
> even if it was the cause then wouldnt it be intermittant
> communication. We have a constant problem.
>
> Can anyone shed light on this phenomonon? Is it an issue of wireless
> propagation that Im not familiar with or is it Interfeerance?
>
> Best regards, and thanks for any input.
>
> Denis
> _____________________
> http://www.CentronSolutions.com

You may experience receiver desensitization from a strong out-of-band
interferer which is not penetrating well into your office and hence not
interferring there.

Pere

```
From -3465549071780222160
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!postnews.google.com!h60g2000hsg.googlegroups.com!not-for-
mail
From: dgleeson422111 <dgleeson3@eircom.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
Subject: Re: 868MHz Propagation problem
Date: Fri, 24 Oct 2008 04:38:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 74
Message-ID: <898752cd-4cd6-4e2e-8d25-5f57f14e0067@h60g2000hsg.googlegroups.com>
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
     <gds9n4$2vl$1@defalla.upc.es>
NNTP-Posting-Host: 84.203.44.22
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1224848286 2190 127.0.0.1 (24 Oct 2008 11:38:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 24 Oct 2008 11:38:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h60g2000hsg.googlegroups.com; posting-host=84.203.44.22;
     posting-account=bpnzCwoAAAAp-CsLugagnABuu8cufJpF
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.0; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:950
rec.radio.amateur.antenna:4899 sci.electronics.design:37716
rec.radio.amateur.equipment:745
```

Hi Guys

Thanks for your input on this.

The idea of height being a problem is interesting. The radio in the
office is on the 1st floor (i.e above the ground by one floor).

If the antenna were at the same height would the problem go away?

We will test and see

On Oct 24, 11:57=A0am, oopere <m...@somewhere.net> wrote:
> dgleeson422111 wrote:

> > Hello All
>
> > We have a propagation issue that is confusing us. We have two 868MHz
> > modules on test, each capable of 500mW transmission.
>
> > We are testing to find the range of communication. We are testing them
> > as follows. One remains in our office while the other is taken to the
> > street outside. we are communicating charecter strings such as "Im at
> > the lamp post number 1" etc. There is somebody at each end sending
> > text strings in a continuous conversation. There is no protocol, error
> > checking or error recovery.
>
> > What we have repetadly found is that the radio in the office can
> > receive long after the radio in the street has stopped receiving. (The
> > person with the radio in the street is moving away from the office.)
>
> > The radios are the same and the power supplies to the radios are the
> > same. Indeed switching the radios gives the same effect.
>
> > The propagation paths between the two radios are the same in terms of
> > distance. However the radio signal transmitted from the office travels
> > through walls first before then traveling through open space. Its the
> > opposite for the radio in the street, firstly traveling through space
> > and then through the walls in the office.
>
> > We did think we had identified an interfeering source in one direction
> > (when moving away from the office) so we started moving in the
> > opposite direction. We found exactly the same effect.
>
> > Are we getting interfeerance from GSM, ISM or Paging?
>
> > As far as GSM bands go in Europe 890=96915 MHz OR 1710=961785 MHz So th=
ese
> > shouldnt be our problem.
>
> > ISM is where we intend to operate and the greatest band occupancy
> > should be 10%. So we should get communication even though we would get
> > some interfeerance.
>
> > Paging - well this has very much gone out of fashion in Europe. But
> > even if it was the cause then wouldnt it be intermittant
> > communication. We have a constant problem.
>
> > Can anyone shed light on this phenomonon? Is it an issue of wireless
> > propagation that Im not familiar with or is it Interfeerance?
>
> > Best regards, and thanks for any input.
>
> > Denis
> > _____________________
> >http://www.CentronSolutions.com
>
> You may experience receiver desensitization from a strong out-of-band

> interferer which is not penetrating well into your office and hence not
> interferring there.
>
> Pere- Hide quoted text -
>
> - Show quoted text -

```
From -1913614943630130201
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l42g2000hsc.googlegroups.com!not-for-
mail
From: osr@uakron.edu
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
Subject: Re: 868MHz Propagation problem
Date: Fri, 24 Oct 2008 04:49:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <ee49a64c-dca6-4389-8f6c-c41d2c9eca64@l42g2000hsc.googlegroups.com>
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
     <gds9n4$2vl$1@defalla.upc.es>
<898752cd-4cd6-4e2e-8d25-5f57f14e0067@h60g2000hsg.googlegroups.com>
NNTP-Posting-Host: 72.63.252.37
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1224848954 16142 127.0.0.1 (24 Oct 2008 11:49:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 24 Oct 2008 11:49:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l42g2000hsc.googlegroups.com; posting-host=72.63.252.37;
     posting-account=OzBv3QoAAADabLLQl57zs47DtlEGM_D1
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:951
rec.radio.amateur.antenna:4900 sci.electronics.design:37717
rec.radio.amateur.equipment:746
```

higher antennas = longer range. Thats your issue.
Also lack of error correction, poor antenna pattern to meet the low
power regulations, and a less then robust protocol, ie your probably
using some form of on/off modulation where the receiver does not have
a continious wave signal to locl on and track. Try sending a preamble
character that is 10101010 a few times, assuming your receiver is

sophisticated enough to use AGC. This sets the DC level in the discriminator more accurately and reduces errors.

your using a radio with intentionally designed in limited range to allow reuse of the frquency.

Steve

```
From 7574336586981342188
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 24 Oct 2008 07:02:26 -0500
From: "Brenda Ann" <brendad@shinbiro.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
Subject: Re: 868MHz Propagation problem
Date: Fri, 24 Oct 2008 21:02:24 +0900
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <T5CdncnwyZfOJJzUnZ2dnUVZ_obinZ2d@giganews.com>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
OL7Pw+t+EPgafSSX3LVC3b0ocRG59q8EHq8FalDN5cUMwDJ+h70gtjjbDn3BwVZpfxsX26EMunFppfa!
LwN8lnlz74a6JwxBf2XIR0r3lOFLaJ3MSw/YpIFlcrSrIm/TIln992xbuu8FARjFMt+XNh0a
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:952
rec.radio.amateur.antenna:4901 sci.electronics.design:37719
rec.radio.amateur.equipment:747
```

"dgleeson422111" <dgleeson3@eircom.net> wrote in message
news:159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com...

What we have repetadly found is that the radio in the office can
receive long after the radio in the street has stopped receiving. (The
person with the radio in the street is moving away from the office.)

The radios are the same and the power supplies to the radios are the
same. Indeed switching the radios gives the same effect.

Is your office in a concrete building? Or one with any steel reinforcement
or steel or aluminum studs? If so, it could well be that there is a
standing wave issue, so that a portion of your transmitted signal is being
reflected back, and so not making it to the receiver. This would not
necessarily affect the reception on the radio in the office from the outside
radio.

```
From 2018505197993835231
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 24 Oct 2008 07:03:58 -0500
From: "Anthony Fremont" <nobody@noplace.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
Subject: Re: 868MHz Propagation problem
Date: Fri, 24 Oct 2008 07:03:57 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <i82dnTmmXOMzJJzUnZ2dnUVZ_t7inZ2d@supernews.com>
Lines: 11
X-Trace: sv3-OMMmYroeEMS+DOyWlh49eEYA953cpY7o5NjHsfsK396AEeiNAiH/iETOC0nqDoG5Ble/
8Ou3IEeVSK6!
1owDR+3OHJaEJ3Kk9hY48GguNJM4MSHsTxLThV7Cxt1pqIJxcN4vGobGZ0eQ+xHzqu7rdq2Z9eyb!
IzzKQtV2UOO9
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:953
rec.radio.amateur.antenna:4902 sci.electronics.design:37720
rec.radio.amateur.equipment:748

dgleeson422111 wrote:
> What we have repetadly found is that the radio in the office can
> receive long after the radio in the street has stopped receiving. (The
> person with the radio in the street is moving away from the office.)
>
> The radios are the same and the power supplies to the radios are the
> same. Indeed switching the radios gives the same effect.

The radio outside is likely being desensitized by some other signal.

From 8108967934357530740
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe03.iad.POSTED!7564ea0f!not-for-mail
From: 1hogrider <nitespark@cox.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
Subject: Re: 868MHz Propagation problem
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
In-Reply-To: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 28
Message-ID: <RYiMk.4801$I8.1980@newsfe03.iad>
NNTP-Posting-Host: 24.254.177.70
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe03.iad 1224850353 24.254.177.70 (Fri, 24 Oct 2008 12:12:33 UTC)
NNTP-Posting-Date: Fri, 24 Oct 2008 12:12:33 UTC
Organization: Cox
Date: Fri, 24 Oct 2008 08:12:33 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:954
rec.radio.amateur.antenna:4903 sci.electronics.design:37721
rec.radio.amateur.equipment:749

dgleeson422111 wrote:

> Hello All
>
> We have a propagation issue that is confusing us. We have two 868MHz
> modules on test, each capable of 500mW transmission.
>
> We are testing to find the range of communication. We are testing them
> as follows. One remains in our office while the other is taken to the
> street outside. we are communicating charecter strings such as "Im at
> the lamp post number 1" etc. There is somebody at each end sending
> text strings in a continuous conversation. There is no protocol, error
> checking or error recovery.
>
> What we have repetadly found is that the radio in the office can
> receive long after the radio in the street has stopped receiving. (The
> person with the radio in the street is moving away from the office.)
>

I see you have other responses. One test that would establish that is environmental (adjacent signal, receiver desense, etc), if BOTH units could be moved to a relative RF free environment such as a rural setting and then test the range.

If this eliminates the problem, then its probably time to break out a spectrum analyzer and take a look at what is around your operating frequency.

Andy

From -2384179959923605472
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news1.google.com!newsfeed.stanford.edu!headwall.stanford.edu!newshub.sdsu.edu!flpi089.ffdc.sbc.com!prodigy.net!flpi088.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!flpi143.ffdc.sbc.com.POSTED!f08f66eb!not-for-mail
From: "Jon Slaughter" <Jon_Slaughter@Hotmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.radio.amateur.equipment
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
Subject: Re: 868MHz Propagation problem
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <BYiMk.3157$Ei5.2077@flpi143.ffdc.sbc.com>

```
NNTP-Posting-Host: 70.245.198.128
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi143.ffdc.sbc.com 1224850337 ST000 70.245.198.128 (Fri, 24 Oct 2008
08:12:17 EDT)
NNTP-Posting-Date: Fri, 24 Oct 2008 08:12:17 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
TSU[@IONVBTQB_XXKZO^[_DATBYHPAXOG@PF]LAMGP_PWDEGKG]UWV[_PUGZXQ[KS^ESKCJLOF_J_NGAWN
TG^_XGTNTAHULK[X[NRTC@G\P^PLT_OCBRHUO@@TBQZDZMHD[YZ@NLXQXIWMOSXT_KOLK^^CXFF\WHMI^C
@EGA_[FXAQ@E^TGNMUXGYNS[QQVL
Date: Fri, 24 Oct 2008 07:14:04 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:955
rec.radio.amateur.antenna:4904 sci.electronics.design:37723
rec.radio.amateur.equipment:750
```

It's because the paths are not the same. Think of a silvered mirror. It can transmit light much easier in one direction than the other. Take both outside and see if it has the same problem. (extremely doubtful because the path's is virtually identical)

```
From 7566361853708992036
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!p49g2000hsd.googlegroups.com!not-for-
mail
From: EE123 <onyx49@juno.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
Subject: Re: 868MHz Propagation problem
Date: Fri, 24 Oct 2008 05:29:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <b033a457-e210-4c0e-b0ba-8a5d5cf8abf3@p49g2000hsd.googlegroups.com>
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
     <BYiMk.3157$Ei5.2077@flpi143.ffdc.sbc.com>
NNTP-Posting-Host: 71.252.39.208
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1224851390 23126 127.0.0.1 (24 Oct 2008 12:29:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 24 Oct 2008 12:29:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
```

```
Injection-Info: p49g2000hsd.googlegroups.com; posting-host=71.252.39.208;
     posting-account=FjB8TQkAAAAouoo9NUVcPYboAEjj7ms8
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:956
rec.radio.amateur.antenna:4905 sci.electronics.design:37726
rec.radio.amateur.equipment:751

On Oct 24, 8:14=A0am, "Jon Slaughter" <Jon_Slaugh...@Hotmail.com> wrote:
> It's because the paths are not the same. Think of a silvered mirror. It c=
an
> transmit light much easier in one direction than the other. Take both
> outside and see if it has the same problem. (extremely doubtful because t=
he
> path's is virtually identical)

Did you design the receive software?
Or did buy the receiver "off the shelve"?

Perhaps there is a problem
with the receivers and how they are
receiving the data.



From -7370928318787156262
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!flpi089.ffdc.sbc.com!prodigy.net!
flpi088.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!flpi144.ffdc.sbc.com.POSTED!
f08f66eb!not-for-mail
From: "Jon Slaughter" <Jon_Slaughter@Hotmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
<BYiMk.3157$Ei5.2077@flpi143.ffdc.sbc.com> <b033a457-e210-4c0e-
b0ba-8a5d5cf8abf3@p49g2000hsd.googlegroups.com>
Subject: Re: 868MHz Propagation problem
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <SyjMk.1284$%11.842@flpi144.ffdc.sbc.com>
NNTP-Posting-Host: 70.245.198.128
X-Complaints-To: abuse@prodigy.net
```

X-Trace: flpi144.ffdc.sbc.com 1224852786 ST000 70.245.198.128 (Fri, 24 Oct 2008 08:53:06 EDT)
NNTP-Posting-Date: Fri, 24 Oct 2008 08:53:06 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
FKPO@SJE]JVWCP\Y]JXBNPP@@R]VPO\MPP\@NDEMCH]VGBIGFWMUCS_]^O[TX_I\^GGZKVLHV^^OMOBFV
UI^\XFHVWCIP@KGPX@R^[@BDQHPOD_HKANIRKAETDEJEVL_TY]JOZLPA^KFNSS]T]M^OW\@K^VGVGK@A_A
AAS@FKBBAP@ECTAZMSXG@FWEASZM
Date: Fri, 24 Oct 2008 07:53:04 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:957
rec.radio.amateur.antenna:4906 sci.electronics.design:37727
rec.radio.amateur.equipment:752

"EE123" <onyx49@juno.com> wrote in message
news:b033a457-e210-4c0e-b0ba-8a5d5cf8abf3@p49g2000hsd.googlegroups.com...
On Oct 24, 8:14 am, "Jon Slaughter" <Jon_Slaugh...@Hotmail.com> wrote:
> It's because the paths are not the same. Think of a silvered mirror. It
> can
> transmit light much easier in one direction than the other. Take both
> outside and see if it has the same problem. (extremely doubtful because
> the
> path's is virtually identical)

Did you design the receive software?
Or did buy the receiver "off the shelve"?

Perhaps there is a problem
with the receivers and how they are
receiving the data.

um, did you read his message? He said that it was independent of the
receiver because they exchanged them and the same problem. i.e., it helps to
read the original post.

From -2586398698541782337
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe04.iad.POSTED!d79b4107!not-for-mail
From: Dave <dave@dave.dave>
User-Agent: Thunderbird 2.0.0.17 (X11/20080925)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra

```
dio.amateur.equipment
Subject: Re: 868MHz Propagation problem
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
In-Reply-To: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
Content-Type: text/plain; charset=windows-1252; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 14
Message-ID: <mRjMk.17671$bK.16944@newsfe04.iad>
X-Complaints-To: abuse2@dslextreme.com
NNTP-Posting-Date: Fri, 24 Oct 2008 13:12:50 UTC
Organization: DSL Extreme
Date: Fri, 24 Oct 2008 13:12:50 +0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:958
rec.radio.amateur.antenna:4908 sci.electronics.design:37728
rec.radio.amateur.equipment:753

dgleeson422111 wrote:
> Hello All
>
> We have a propagation issue that is confusing us. We have two 868MHz
> modules on test, each capable of 500mW transmission.
>
> We are testing to find the range of communication. We are testing them
> as follows. One remains in our office while the other is taken to the
> street outside. we are communicating charecter strings such as "Im at
> the lamp post number 1" etc. There is somebody at each end sending
> text strings in a continuous conversation. There is no protocol, error
> checking or error recovery.

Do you have a license?


From 1755891802396243325
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
Subject: Re: 868MHz Propagation problem
Lines: 17
MIME-Version: 1.0
Content-Type: text/plain;
```

```
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <rimMk.44$Jv2.32@nwrddc01.gnilink.net>
Date: Fri, 24 Oct 2008 16:00:23 GMT
NNTP-Posting-Host: 71.110.230.49
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1224864023 71.110.230.49 (Fri, 24 Oct 2008 12:00:23
EDT)
NNTP-Posting-Date: Fri, 24 Oct 2008 12:00:23 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:959
rec.radio.amateur.antenna:4913 sci.electronics.design:37747
rec.radio.amateur.equipment:754
X-Original-Bytes: 2291
```

>What we have repetadly found is that the radio in the office can
receive long after the radio in the street has stopped receiving. (The
person with the radio in the street is moving away from the office.)

You don't say if you are using the same antenna on both ends, but the environment is very different at each end. Consider that Transmitting is about putting signal into an area, while receiving is about capturing the signals in near field of the antenna, then discerning the intellegence. You would have to analyze the output to be sure, but it may be localized reflections, shading or noise at the street level. Because of this it is so difficult to quantify range. There is equipment and software specifically designed to do what you are trying to do but it is expensive. The result is highly detailed signal strength graphic output overlaid on 3d mapping for each fixed site at various frequencies. Most commercial antenna sites have gone to great expense to generate those maps in order to show what their tower does because it is very different for each location.

```
From -3113958521284503327
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!goblin1!goblin.stu.neva.ru!uio.no!
newsfeed1.funet.fi!newsfeeds.funet.fi!feeder1.news.saunalahti.fi!
reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
Subject: Re: 868MHz Propagation problem
Message-ID: <frs3g4ltnlun2ne5str6veq10rr1t1nmcr@4ax.com>
```

References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 29
Date: Fri, 24 Oct 2008 19:19:03 +0300
NNTP-Posting-Host: 85.77.237.217
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1224865136 85.77.237.217 (Fri, 24 Oct 2008 19:18:56 EEST)
NNTP-Posting-Date: Fri, 24 Oct 2008 19:18:56 EEST
Organization: Saunalahti Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:960 rec.radio.amateur.antenna:4914 sci.electronics.design:37753 rec.radio.amateur.equipment:755

On Fri, 24 Oct 2008 02:14:24 -0700 (PDT), dgleeson422111
<dgleeson3@eircom.net> wrote:

>What we have repetadly found is that the radio in the office can
>receive long after the radio in the street has stopped receiving. (The
>person with the radio in the street is moving away from the office.)

Is the moving station manually portable or is it mounted on a vehicle?

If the moving operator is bored and continuously talks on a GSM phone
or if the (vehicle) generates some other kind of interference, this
would reduce the SNR at the moving station.

>The radios are the same and the power supplies to the radios are the
>same. Indeed switching the radios gives the same effect.
>
>The propagation paths between the two radios are the same in terms of
>distance. However the radio signal transmitted from the office travels
>through walls first before then traveling through open space. Its the
>opposite for the radio in the street, firstly traveling through space
>and then through the walls in the office.

Does the transmitter have some kind of SWR protection ?

If the Tx antenna is close to the wall, it might detune the antenna,
increasing the SWR and the SWR protection drops the transmitter power.

Paul OH3LWR

From -8913158169115085827
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad

```
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews5.bellsouth.net.POSTED!7eee1d3b!
not-for-mail
From: "Ed Cregger" <ecregger@bellsouff.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
<gds9n4$2vl$1@defalla.upc.es>
Subject: Re: 868MHz Propagation problem
Lines: 72
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <YcnMk.50803$XT1.43666@bignews5.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcboclopbcladfagbgobpohemacbphcocjhaif
eckepfagppmljiigapcjkfahpehopaobndmfgpeaapikjjoflbcdpjeghceflhcjjcpebhhghhpmli
NNTP-Posting-Date: Fri, 24 Oct 2008 13:02:48 EDT
Organization: BellSouth Internet Group
Date: Fri, 24 Oct 2008 13:07:19 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:961
rec.radio.amateur.antenna:4916 sci.electronics.design:37769
rec.radio.amateur.equipment:756


"oopere" <me@somewhere.net> wrote in message
news:gds9n4$2vl$1@defalla.upc.es...
>
>
> dgleeson422111 wrote:
>> Hello All
>>
>> We have a propagation issue that is confusing us. We have two 868MHz
>> modules on test, each capable of 500mW transmission.
>>
>> We are testing to find the range of communication. We are testing them
>> as follows. One remains in our office while the other is taken to the
>> street outside. we are communicating charecter strings such as "Im at
>> the lamp post number 1" etc. There is somebody at each end sending
>> text strings in a continuous conversation. There is no protocol, error
>> checking or error recovery.
>>
>> What we have repetadly found is that the radio in the office can
>> receive long after the radio in the street has stopped receiving. (The
>> person with the radio in the street is moving away from the office.)
>>
```

>> The radios are the same and the power supplies to the radios are the
>> same. Indeed switching the radios gives the same effect.
>>
>> The propagation paths between the two radios are the same in terms of
>> distance. However the radio signal transmitted from the office travels
>> through walls first before then traveling through open space. Its the
>> opposite for the radio in the street, firstly traveling through space
>> and then through the walls in the office.
>>
>> We did think we had identified an interfeering source in one direction
>> (when moving away from the office) so we started moving in the
>> opposite direction. We found exactly the same effect.
>>
>> Are we getting interfeerance from GSM, ISM or Paging?
>>
>> As far as GSM bands go in Europe 890�915 MHz OR 1710�1785 MHz So these
>> shouldnt be our problem.
>>
>> ISM is where we intend to operate and the greatest band occupancy
>> should be 10%. So we should get communication even though we would get
>> some interfeerance.
>>
>> Paging - well this has very much gone out of fashion in Europe. But
>> even if it was the cause then wouldnt it be intermittant
>> communication. We have a constant problem.
>>
>> Can anyone shed light on this phenomonon? Is it an issue of wireless
>> propagation that Im not familiar with or is it Interfeerance?
>>
>> Best regards, and thanks for any input.
>>
>> Denis
>> _____________________
>> http://www.CentronSolutions.com
>
> You may experience receiver desensitization from a strong out-of-band
> interferer which is not penetrating well into your office and hence not
> interferring there.
>
> Pere

Such as traffic light electronics.

Without error correction protocols being employed, you are also at the mercy of multipath interference. You're QRMing your own signal. 8>)

Ed, NM2K

From 2136477581385635830

```
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
newsfeed.utanet.at!newsfeed.aon.at!newsreader02.highway.telekom.at!not-for-mail
From: Helmut Wabnig <hwabnig@ .- --- -. dotat>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
Subject: Re: 868MHz Propagation problem
Date: Fri, 24 Oct 2008 19:26:57 +0200
Message-ID: <m714g4dcib22h58lk2dnq5dlap15ru9qon@4ax.com>
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 18
NNTP-Posting-Host: 91-114-234-173.adsl.highway.telekom.at
X-Trace: 1224869213 newsreader02.highway.telekom.at 3964 91.114.234.173:13398
Xref: g2news1.google.com rec.radio.amateur.homebrew:962
rec.radio.amateur.antenna:4918 sci.electronics.design:37777
rec.radio.amateur.equipment:757

On Fri, 24 Oct 2008 02:14:24 -0700 (PDT), dgleeson422111
<dgleeson3@eircom.net> wrote:


>
>What we have repetadly found is that the radio in the office can
>receive long after the radio in the street has stopped receiving. (The
>person with the radio in the street is moving away from the office.)
>

Polarization could be a factor.
Reflections change the polarization appr. 90 degrees.

Rotate the antennas left & right to find out.

(you did not mention your type of antennas)

w.


From -3374541615043129641
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
newsfeed.utanet.at!newsfeed.aon.at!newsreader02.highway.telekom.at!not-for-mail
From: Helmut Wabnig <hwabnig@ .- --- -. dotat>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.radio.amateur.equipment
Subject: Re: 868MHz Propagation problem
Date: Fri, 24 Oct 2008 19:29:55 +0200
Message-ID: <le14g4hi8u896c9l9lk0qnb2i7b2jdibr4@4ax.com>
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 23
NNTP-Posting-Host: 91-114-234-173.adsl.highway.telekom.at
X-Trace: 1224869391 newsreader02.highway.telekom.at 3964 91.114.234.173:13398
Xref: g2news1.google.com rec.radio.amateur.homebrew:963
rec.radio.amateur.antenna:4919 sci.electronics.design:37778
rec.radio.amateur.equipment:758

On Fri, 24 Oct 2008 02:14:24 -0700 (PDT), dgleeson422111
<dgleeson3@eircom.net> wrote:

>
>What we have repetadly found is that the radio in the office can
>receive long after the radio in the street has stopped receiving. (The
>person with the radio in the street is moving away from the office.)
>

This is typical for groundplane antennas.
They radiate upwards.

Polarization could be a factor.
Reflections change the polarization appr. 90 degrees.

Rotate the antennas left & right to find out.

(you did not mention your type of antennas)

w.

From 3231226400090318701
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.seanet.com!news.seanet.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 24 Oct 2008 12:33:12 -0500
Message-ID: <49020D38.B232C623@hovnanian.com>
Date: Fri, 24 Oct 2008 11:00:24 -0700
From: "Paul Hovnanian P.E." <paul@hovnanian.com>
X-Mailer: Mozilla 4.72 [en] (X11; U; Linux 2.2.14-5.0 i586)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.radio.amateur.equipment
Subject: Re: 868MHz Propagation problem
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 61
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.38.163.222
X-Trace: sv3-gVu5oSlO6fqhXoARhQPLxLHwsnQziil5cewju0x8asZRCm/
PucFqasIl+SKB+nkFEFaSMu35RscTrq2!bZMdZ89cXs04Vys0VKa/
VrZFv9A3ZZBzQLqRENKqPM9jYZKr5KzcY49kg91w15Lbc9Tmo7RL5iXJ!Aw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:964
rec.radio.amateur.antenna:4920 sci.electronics.design:37779
rec.radio.amateur.equipment:759

dgleeson422111 wrote:

> Hello All
>
> We have a propagation issue that is confusing us. We have two 868MHz
> modules on test, each capable of 500mW transmission.
>
> We are testing to find the range of communication. We are testing them
> as follows. One remains in our office while the other is taken to the
> street outside. we are communicating charecter strings such as "Im at
> the lamp post number 1" etc. There is somebody at each end sending
> text strings in a continuous conversation. There is no protocol, error
> checking or error recovery.
>
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> person with the radio in the street is moving away from the office.)
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> same. Indeed switching the radios gives the same effect.
>

> The propagation paths between the two radios are the same in terms of
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> through walls first before then traveling through open space. Its the
> opposite for the radio in the street, firstly traveling through space
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> opposite direction. We found exactly the same effect.
>
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>
> As far as GSM bands go in Europe 890-915 MHz OR 1710-1785 MHz So these
> shouldnt be our problem.
>
> ISM is where we intend to operate and the greatest band occupancy
> should be 10%. So we should get communication even though we would get
> some interfeerance.
>
> Paging - well this has very much gone out of fashion in Europe. But
> even if it was the cause then wouldnt it be intermittant
> communication. We have a constant problem.
>
> Can anyone shed light on this phenomonon? Is it an issue of wireless
> propagation that Im not familiar with or is it Interfeerance?
>
> Best regards, and thanks for any input.
>
> Denis
> ____________________
> http://www.CentronSolutions.com

Have you tried relocating the office transceiver? There might be
something about the office environment that is interfering with its
transmission.

--
Paul Hovnanian   mailto:Paul@Hovnanian.com

A mathematician is a machine for converting coffee into theorems.

From 4876087752788079072
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
h2g2000hsg.googlegroups.com!not-for-mail
From: Mark <makolber@yahoo.com>
Newsgroups:

```
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
Subject: Re: 868MHz Propagation problem
Date: Fri, 24 Oct 2008 10:44:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 86
Message-ID: <89e3cfad-c877-4be6-8eca-53993e23a9e9@h2g2000hsg.googlegroups.com>
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
     <49020D38.B232C623@hovnanian.com>
NNTP-Posting-Host: 129.188.69.169
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1224870250 7692 127.0.0.1 (24 Oct 2008 17:44:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 24 Oct 2008 17:44:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h2g2000hsg.googlegroups.com; posting-host=129.188.69.169;
     posting-account=WmOtlwkAAADE8ghbKFJsr1g-UcPbtjjc
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; .NET CLR
     1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:965
rec.radio.amateur.antenna:4921 sci.electronics.design:37781
rec.radio.amateur.equipment:760

On Oct 24, 2:00=A0pm, "Paul Hovnanian P.E." <p...@hovnanian.com> wrote:
> dgleeson422111 wrote:
>
> > Hello All
>
> > We have a propagation issue that is confusing us. We have two 868MHz
> > modules on test, each capable of 500mW transmission.
>
> > We are testing to find the range of communication. We are testing them
> > as follows. One remains in our office while the other is taken to the
> > street outside. we are communicating charecter strings such as "Im at
> > the lamp post number 1" etc. There is somebody at each end sending
> > text strings in a continuous conversation. There is no protocol, error
> > checking or error recovery.
>
> > What we have repetadly found is that the radio in the office can
> > receive long after the radio in the street has stopped receiving. (The
> > person with the radio in the street is moving away from the office.)
>
> > The radios are the same and the power supplies to the radios are the
> > same. Indeed switching the radios gives the same effect.
>
> > The propagation paths between the two radios are the same in terms of
> > distance. However the radio signal transmitted from the office travels
> > through walls first before then traveling through open space. Its the
> > opposite for the radio in the street, firstly traveling through space
> > and then through the walls in the office.
```

>
> > We did think we had identified an interfeering source in one direction
> > (when moving away from the office) so we started moving in the
> > opposite direction. We found exactly the same effect.
>
> > Are we getting interfeerance from GSM, ISM or Paging?
>
> > As far as GSM bands go in Europe 890-915 MHz OR 1710-1785 MHz So these
> > shouldnt be our problem.
>
> > ISM is where we intend to operate and the greatest band occupancy
> > should be 10%. So we should get communication even though we would get
> > some interfeerance.
>
> > Paging - well this has very much gone out of fashion in Europe. But
> > even if it was the cause then wouldnt it be intermittant
> > communication. We have a constant problem.
>
> > Can anyone shed light on this phenomonon? Is it an issue of wireless
> > propagation that Im not familiar with or is it Interfeerance?
>
> > Best regards, and thanks for any input.
>
> > Denis
> > ____________________
> >http://www.CentronSolutions.com
>
> Have you tried relocating the office transceiver? There might be
> something about the office environment that is interfering with its
> transmission.
>
> --
> Paul Hovnanian =A0 =A0 mailto:P...@Hovnanian.com
> --
> A mathematician is a machine for converting coffee into theorems.- Hide q=
uoted text -
>
> - Show quoted text -

wow so many of these replies are wrong..

in almost all cases, RF path losses are RECIPROCAL.

(even a 1/2 silvered mirror is reciprocal to light)

As some have said, the cause of your issue is probably interference to
the outside receiver.

Or maybe something about the indoor setup is causing the indoor Tx to
operate at lower power.

It is very unusual for RF path loss to be non-reciprocal.

Mark

```
From 3641528973368158636
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.seanet.com!news.seanet.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 24 Oct 2008 12:52:06 -0500
Message-ID: <490211A5.5AE4BB68@hovnanian.com>
Date: Fri, 24 Oct 2008 11:19:17 -0700
From: "Paul Hovnanian P.E." <paul@hovnanian.com>
X-Mailer: Mozilla 4.72 [en] (X11; U; Linux 2.2.14-5.0 i586)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
Subject: Re: 868MHz Propagation problem
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
         <gds9n4$2vl$1@defalla.upc.es>
<898752cd-4cd6-4e2e-8d25-5f57f14e0067@h60g2000hsg.googlegroups.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 28
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.38.163.222
X-Trace: sv3-GFU4DfnAFftsK5emBEzYOkBnYgjK4dNApurewZhcIzaclNqMGw6x2eQugt/
A3xRmd6hcSqgTC0fuhCm!
HvQ+u5x5NgKmMOyNq4n+EWS5GPjG7m4ZbT6PQ5bdu38DNL0XPdAcamtps8EhvKbtCS6kBFHiFbOQ!lA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:966
rec.radio.amateur.antenna:4922 sci.electronics.design:37785
rec.radio.amateur.equipment:761
```

dgleeson422111 wrote:

>
> Hi Guys
>
> Thanks for your input on this.

>
> The idea of height being a problem is interesting. The radio in the
> office is on the 1st floor (i.e above the ground by one floor).
>
> If the antenna were at the same height would the problem go away?
>
> We will test and see

If I remember my antenna/propagation theory correctly, such a change should affect both the transmit and receive gains equally. That is to say, if moving the office antenna lower will reduce its transmit range, it will also reduce its receive range.

What you are looking for is something that is reducing the office end transmit power while leaving its receive sensitivity intact. Someone else suggested an SWR problem due to near field interference with the antenna.

--
Paul Hovnanian   mailto:Paul@Hovnanian.com

Don't anthropomorphize computers. They hate that.

From -5118028477461238032
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!not-for-mail
Date: Fri, 24 Oct 2008 14:22:05 -0400
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.radio.amateur.equipment
Subject: Re: 868MHz Propagation problem
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com> <mRjMk.17671$bK.16944@newsfe04.iad>
In-Reply-To: <mRjMk.17671$bK.16944@newsfe04.iad>
Content-Type: text/plain; charset=windows-1252; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 26
Message-ID: <49021242$0$4931$9a6e19ea@unlimited.newshosting.com>
Organization: Newshosting.com - Highest quality at a great price! www.newshosting.com

```
NNTP-Posting-Host: 70.121.205.178
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:967
rec.radio.amateur.antenna:4924 sci.electronics.design:37795
rec.radio.amateur.equipment:763

Dave wrote:
> dgleeson422111 wrote:
>> Hello All
>>
>> We have a propagation issue that is confusing us. We have two 868MHz
>> modules on test, each capable of 500mW transmission.
>>
>> We are testing to find the range of communication. We are testing them
>> as follows. One remains in our office while the other is taken to the
>> street outside. we are communicating charecter strings such as "Im at
>> the lamp post number 1" etc. There is somebody at each end sending
>> text strings in a continuous conversation. There is no protocol, error
>> checking or error recovery.
>
> Do you have a license?

Not required in EU for 868 MHz

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money"  ;-P


From 700665208082166303
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!
tmp-post01.iad!news.highwinds-media.com!not-for-mail
Message-ID: <490212D9.7020605@NETTALLY.COM>
Date: Fri, 24 Oct 2008 14:24:25 -0400
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
To: Anthony Fremont <nobody@noplace.net>
```

```
Subject: Re: 868MHz Propagation problem
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
<i82dnTmmXOMzJJzUnZ2dnUVZ_t7inZ2d@supernews.com>
In-Reply-To: <i82dnTmmXOMzJJzUnZ2dnUVZ_t7inZ2d@supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 28
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
NNTP-Posting-Host: 70.121.205.178
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:968
rec.radio.amateur.antenna:4925 sci.electronics.design:37797
rec.radio.amateur.equipment:764

Anthony Fremont wrote:
> dgleeson422111 wrote:
> \> What we have repetadly found is that the radio in the office can
>> receive long after the radio in the street has stopped receiving. (The
>> person with the radio in the street is moving away from the office.)
>>
>> The radios are the same and the power supplies to the radios are the
>> same. Indeed switching the radios gives the same effect.
>
> The radio outside is likely being desensitized by some other signal.
>
>

Most likely scenario.

Also make sure that in your design you are powering down the transmitter
fully in the receive mode. In some radios there can be a residual
carrier from the PLL causing self interference ar interference to other
nearby nodes.

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money"  ;-P


From 7726525042116158000
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
```

border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.supernews.com!news.supernews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 24 Oct 2008 13:27:01 -0500
From: "Anthony Fremont" <nobody@noplace.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.radio.amateur.equipment
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
<49020D38.B232C623@hovnanian.com> <89e3cfad-c877-4be6-8eca-53993e23a9e9@h2g2000hsg.googlegroups.com>
Subject: Re: 868MHz Propagation problem
Date: Fri, 24 Oct 2008 13:26:59 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <tt2dnUrzaMnojp_UnZ2dnUVZ_uWdnZ2d@supernews.com>
Lines: 32
X-Trace: sv3-
PSMpcWtP2mjHGq8hsn0nMJkCrw6HxgllpzolU7xocfcn8mt1AdCBeoB6Qjji3nQGU1K0jdtBFYqtVzK!
llw6RLjK/Q/WpxB1dJK48QDWxITV228sLtbmODChLQWuRfj8MBnZDKQfN+fTC14tQc9RnylMe+ql!
VGHUqW9Rvck=
X-Complaints-To: www.supernews.com/docs/abuse.html
X-DMCA-Complaints-To: www.supernews.com/docs/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:969
rec.radio.amateur.antenna:4926 sci.electronics.design:37800
rec.radio.amateur.equipment:765

Mark wrote:
> On Oct 24, 2:00 pm, "Paul Hovnanian P.E." <p...@hovnanian.com> wrote:

> wow so many of these replies are wrong..

This is normal when antenna "theory" comes up.

> in almost all cases, RF path losses are RECIPROCAL.

I agree, including the antenna gains (meaning that the antennas at each end don't have to match).

> (even a 1/2 silvered mirror is reciprocal to light)

Well that guy is usually on a differet page.

> As some have said, the cause of your issue is probably interference to
> the outside receiver.

That's what I think is the most likely cause. The guy outside probably has his Nextel phone with him. ;-)

> Or maybe something about the indoor setup is causing the indoor Tx to
> operate at lower power.

I suppose that's possible too. The OP should make sure the power supplies are equivalent (meaning that the output power would suffer more than the receiver gain with a drooping supply). So check the indoor supply.

> It is very unusual for RF path loss to be non-reciprocal.

```
From -1680513820075036081
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!m74g2000hsh.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
Subject: Re: 868MHz Propagation problem
Date: Fri, 24 Oct 2008 13:25:58 -0700 (PDT)
Organization: http://groups.google.com
Lines: 47
Message-ID: <86256efd-9b07-412c-ac39-c886d2b42ec6@m74g2000hsh.googlegroups.com>
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
     <49020D38.B232C623@hovnanian.com> <89e3cfad-
c877-4be6-8eca-53993e23a9e9@h2g2000hsg.googlegroups.com>
     <tt2dnUrzaMnojp_UnZ2dnUVZ_uWdnZ2d@supernews.com>
NNTP-Posting-Host: 155.178.6.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1224879959 9988 127.0.0.1 (24 Oct 2008 20:25:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 24 Oct 2008 20:25:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m74g2000hsh.googlegroups.com; posting-host=155.178.6.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:970
rec.radio.amateur.antenna:4935 sci.electronics.design:37822
rec.radio.amateur.equipment:766
```

```
On Oct 24, 2:26=A0pm, "Anthony Fremont" <nob...@noplace.net> wrote:
> Mark wrote:
> > On Oct 24, 2:00 pm, "Paul Hovnanian P.E." <p...@hovnanian.com> wrote:
> > wow so many of these replies are wrong..
>
> This is normal when antenna "theory" comes up.
>
> > in almost all cases, =A0RF path losses are RECIPROCAL.
>
> I agree, including the antenna gains (meaning that the antennas at each e=
nd
> don't have to match).
>
> > (even a 1/2 silvered mirror is reciprocal to light)
>
> Well that guy is usually on a differet page.
>
> > As some have said, the cause of your issue is probably interference to
> > the outside receiver.
>
> That's what I think is the most likely cause. =A0The guy outside probably=
 has
> his Nextel phone with him. =A0;-)
>
> > Or maybe something about the indoor setup is causing the indoor Tx to
> > operate at lower power.
>
> I suppose that's possible too. =A0The OP should make sure the power suppl=
ies
> are equivalent (meaning that the output power would suffer more than the
> receiver gain with a drooping supply). =A0So check the indoor supply.
>
>
>
> > It is very unusual for RF path loss to be non-reciprocal.- Hide quoted =
text -
>
> - Show quoted text -

It is assumed that the path to and from the office should be inferior
to the line of sight path out on the street. This may or may not be
true. The building may actually be offering gain in certain
directions. I would start by seeing if the same condition existed at
many more locations. If it does then other ideas need to be examined,
I would start by examining the RF environment outside the building.

Jimmie


From 5566842126589954495
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
```

X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 24 Oct 2008 15:39:46 -0500
From: Richard Clark <kb7qhc@comcast.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.radio.amateur.equipment
Subject: Re: 868MHz Propagation problem
Date: Fri, 24 Oct 2008 13:37:34 -0700
Message-ID: <4pb4g41och7e9d1ggp2cjhdv2m9lhk8r72@4ax.com>
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 67
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.17.52.237
X-Trace: sv3-SyWFbwoL2KTCJe4nQkwQUTQV/
yPJ6NgF8qGAm00vgDxVhEaWJWq3Z4g7R3EGs7byJGxiTFchQEeedZM!
VWjR8I8EputguGB2M2ZktEfhPMYBkcLZQ3VmHi2kh9gaI9bBLiB5Rh/a6k+Nu4pgPoTlmjLHN4cg!
yKLMw1GRAYTJp7SwVrWRZXY3jA==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:971
rec.radio.amateur.antenna:4936 sci.electronics.design:37824
rec.radio.amateur.equipment:767

On Fri, 24 Oct 2008 02:14:24 -0700 (PDT), dgleeson422111
<dgleeson3@eircom.net> wrote:

>Hello All
>
>We have a propagation issue that is confusing us. We have two 868MHz
>modules on test, each capable of 500mW transmission.

Hi Denis,

That is a lot of power for a problem of losing contact in the space of
blocks.

>What we have repetadly found is that the radio in the office can
>receive long after the radio in the street has stopped receiving. (The
>person with the radio in the street is moving away from the office.)
>

>The radios are the same and the power supplies to the radios are the
>same. Indeed switching the radios gives the same effect.
>
>The propagation paths between the two radios are the same in terms of
>distance. However the radio signal transmitted from the office travels
>through walls first before then traveling through open space. Its the
>opposite for the radio in the street, firstly traveling through space
>and then through the walls in the office.

A very good description of the symptoms and relations.

>We did think we had identified an interfeering source in one direction
>(when moving away from the office) so we started moving in the
>opposite direction. We found exactly the same effect.

A good test for reducing variables. If you identified an interference, I would presume you could do that again in the other direction.

>Are we getting interfeerance from GSM, ISM or Paging?

Only if the remote set was nearer to an undiscovered interferer. You seemed to have resolved that once, and you should be able to detect the similar occurrence again.

>As far as GSM bands go in Europe 890�915 MHz OR 1710�1785 MHz So these
>shouldnt be our problem.

This is a flaw in the logic. Your frequency of operation is very close to these bands - unless your sets have been designed with elaborate front end tuning (which seems unlikely).

>Can anyone shed light on this phenomonon? Is it an issue of wireless
>propagation that Im not familiar with or is it Interfeerance?

One component not discussed is the remote set's proximity to the operator. The operator could disturb the local field (aka shield). Going beyond is the effect of a Fresnel Zone, but your descriptions describe a complete black-out. To test this requires you to go further away to see if you pick up the signal again. This is a long shot, however, as the effect would be distinct within the space of a meter or so. For mobile operation, the Fresnel Zone creates what is called "Picket Fencing" as the signal comes and goes quickly with distance traveled.

Perhaps it is the proximity of a Pub, and your operator stopped in for a Guinness.

73's
Richard Clark, KB7QHC

From -39033099036381596

```
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!flpi089.ffdc.sbc.com!
prodigy.net!flpi088.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi061.nbdc.sbc.com.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
Subject: Re: 868MHz Propagation problem
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
In-Reply-To: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
Content-Type: text/plain; charset=windows-1252; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 67
Message-ID: <iTqMk.5863$be.5632@nlpi061.nbdc.sbc.com>
NNTP-Posting-Host: 75.26.183.178
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi061.nbdc.sbc.com 1224882766 ST000 75.26.183.178 (Fri, 24 Oct 2008
17:12:46 EDT)
NNTP-Posting-Date: Fri, 24 Oct 2008 17:12:46 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
[[PGG[[DPRR]R_DYFBCD^VX@WB]^PCPDLXUNNH\KMAVNDQUBLNTC@AWZWDXZXQ[K\FFSKCVM@F_N_DOBWV
WG__LG@VVOIPLIGX\
\BU_B@\P\PFX\B[APHTWAHDCKJF^NHD[YJAZMCY_CWG[SX\Y]^KC\HSZRWSWKGAY_PC[BQ[BXAS\F\
\@DMTLFZFUE@\VL
Date: Fri, 24 Oct 2008 14:12:43 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:972
rec.radio.amateur.antenna:4939 sci.electronics.design:37830
rec.radio.amateur.equipment:768

dgleeson422111 wrote:
> Hello All
>
> We have a propagation issue that is confusing us. We have two 868MHz
> modules on test, each capable of 500mW transmission.
>
> We are testing to find the range of communication. We are testing them
> as follows. One remains in our office while the other is taken to the
> street outside. we are communicating charecter strings such as "Im at
> the lamp post number 1" etc. There is somebody at each end sending
> text strings in a continuous conversation. There is no protocol, error
> checking or error recovery.
>
> What we have repetadly found is that the radio in the office can
> receive long after the radio in the street has stopped receiving. (The
```

> person with the radio in the street is moving away from the office.)
>
> The radios are the same and the power supplies to the radios are the same. Indeed switching the radios gives the same effect.
>
> The propagation paths between the two radios are the same in terms of distance. However the radio signal transmitted from the office travels through walls first before then traveling through open space. Its the opposite for the radio in the street, firstly traveling through space and then through the walls in the office.
>
> We did think we had identified an interfeering source in one direction (when moving away from the office) so we started moving in the opposite direction. We found exactly the same effect.
>
> Are we getting interfeerance from GSM, ISM or Paging?
>
> As far as GSM bands go in Europe 890�915 MHz OR 1710�1785 MHz So these shouldnt be our problem.
>
> ISM is where we intend to operate and the greatest band occupancy should be 10%. So we should get communication even though we would get some interfeerance.
>
> Paging - well this has very much gone out of fashion in Europe. But even if it was the cause then wouldnt it be intermittant communication. We have a constant problem.
>
> Can anyone shed light on this phenomonon? Is it an issue of wireless propagation that Im not familiar with or is it Interfeerance?
>
> Best regards, and thanks for any input.
>

I'll second Pere and Anthony. Strong out-of-band signals is what I found mostly in situations where path losses seemed strangely non-reciprocal.

Post a schematic. One possibility is that your receive input filter is wide open like a barn door and GSM swamps the receiver.

Another option if you have a spectrum analyzer: Hang a large near-field probe into a long cable, tape it to a broomstick and hold that out the window for a while. See what pops up on the screen. If this is in a city be prepared for some commotion among the pedestrians down there :-)

--
Regards, Joerg

http://www.analogconsultants.com/

"gmail" domain blocked because of excessive spam.
Use another domain or send PM.

```
From 5906386887933069433
X-Google-Thread: fc2a5,40b331647bfbb4ad
X-Google-Thread: fcc6e,40b331647bfbb4ad
X-Google-Thread: 112d1e,40b331647bfbb4ad
X-Google-Thread: 108122,40b331647bfbb4ad
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d10g2000pra.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design,rec.ra
dio.amateur.equipment
Subject: Re: 868MHz Propagation problem
Date: Fri, 24 Oct 2008 16:13:43 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <562c8f9b-654e-4565-94db-28c275992da2@d10g2000pra.googlegroups.com>
References: <159dee31-5436-4f46-ae9d-48214eec09ca@k37g2000hsf.googlegroups.com>
NNTP-Posting-Host: 76.226.99.187
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1224890023 6243 127.0.0.1 (24 Oct 2008 23:13:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 24 Oct 2008 23:13:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d10g2000pra.googlegroups.com; posting-host=76.226.99.187;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:973
rec.radio.amateur.antenna:4940 sci.electronics.design:37860
rec.radio.amateur.equipment:769
```

Hey:

My crystal balls are saying:

Multipath where a reflected signal from the source is being cancelled out in the zone sort of like standing waves. It's like waves in a bath tub they bounce of the sides and produce more interference waves, and so on. Or FM broadcast stations signal in the big city with tall buildings, all of a sudden the signal just goes puff while you're driving along downtown.

I'd say gits your antenna near a window or put up an outdoor antenna.

73 OM

n8zu

From 7466130448760870021
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 01 Oct 2008 08:19:19 -0500
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <97521a8a-60a9-491f-ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <13eb90fc-8a9f-4ef4-
b1f3-68328fb1637a@a1g2000hsb.googlegroups.com>
<todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com>
<eNSdndRMcrfIIUbVnZ2dnUVZ_oninZ2d@comcast.com>
<hd5od4p66d4dcktp4nf11soua1dqo6029k@4ax.com>
<PIGdnRn1IPhe10HVnZ2dnUVZ_uqdnZ2d@comcast.com>
<vonod49c0ct1brj6q1rkrqujqn257ul180@4ax.com>
Subject: Re: CW is a hobby (off topic BWTH)
Date: Wed, 1 Oct 2008 09:19:15 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <ToidnR6VgI5K5X7VnZ2dnUVZ_rPinZ2d@comcast.com>
Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 98.243.145.110
X-Trace: sv3-tCRRT7VqWRxh2wODcowyIZAjAK/
kGP8uK2GTWLnO+BEa6r1Luqo1TuSaEIkqK4osEehJ1387cNplmSL!
W7Jfa4uhMTRAVq2UKSwDyZ2ac3Fw+sTJeCuPn8JHr/QAh3ba0TpUGIrKLMf6B4muIUwQPJkmd8UH!
rLqq1lPBOQmZ5srVPerv1ciXw13V7Yk=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:874

"AJ Lake" <nomail@fakeaddress.com> wrote in message
news:vonod49c0ct1brj6q1rkrqujqn257ul180@4ax.com...
> "Dee Flint" <deeflint01@comcast.net> wrote:
>

>>They [B&N] are not a library but a business.
>
> B&N is a very successful business. When they think the 'library'
> chairs are losing them money, the chairs will be removed.
>
>>The chairs and atmosphere are so you can SAMPLE the reading
>>material not spend the day reading.
>
> I *sampled* QST and *bought* another magazine or book. The bottom line
> $$ for B&N was the same or more. Your tears are for the wrong entity.
> B&N made money because I was drawn to their 'free sample' QST
> magazine. QST is the one who lost money, but then that's what voting
> with your wallet is all about...

Reading QST at B&N is not "sampling". It is hypocritical. Since you are boycotting the ARRL by not being a member, your "sampling" of the magazine in the book store is absolute hypocrisy. You want the benefits of the organization without paying for them. If you are going to boycott the ARRL, do it right. Don't read their magazine.

From 6600094070823637479
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!news-in-01.newsfeed.easynews.com!news-in-02.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-nntp-01.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <ZKyEk.151029$6p1.91971@en-nntp-07.dc1.easynews.com>
<4YGdnZdX2IgwXX_VnZ2dnUVZ_gGdnZ2d@web-ster.com>
<4tDEk.311802$TT4.161925@attbi_s22>
Subject: Re: Reference oscillator frequency = IF?
Lines: 4
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <ACNEk.154940$C65.109425@en-nntp-01.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Wed, 1 Oct 2008 09:32:30 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:875

Thanks guys, I'll keep my reference at something like 40MHz and my last IF at something like 21.4MHz...

```
From -4725145258151286955
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
e17g2000hsg.googlegroups.com!not-for-mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Switching power supplies question.
Date: Wed, 1 Oct 2008 09:55:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 25
Message-ID: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
NNTP-Posting-Host: 142.162.129.19
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1222880109 19919 127.0.0.1 (1 Oct 2008 16:55:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 1 Oct 2008 16:55:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e17g2000hsg.googlegroups.com; posting-host=142.162.129.19;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727; .NET CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:876
```

Understand that inside a typical computer switching power supply there is a higher multi kilohertz voltage (350v RMS????) produced by the switching action of the rectified 115 or 230 volt AC input?

This high freq AC through various usually toroidal step down transforner windings is then rectified to provided the plus and minus 5, 12 volt outputs etc. Correct?

We recently modified such a power supply to get a single 12 volt DC output at about 20 amps for a particular, amateur radio application. In order to do so we had to load one of the 5 volt ouputs with a couple of amps in order to get the unit to work; but that's normal.

Question: Is it possible to get at that higher AC voltage inside and directly rectify it as a B+ supply for tube equipment? While also possibly tiddling one or more of the 5 volt DC outputs closer to 6.3 volts for tube heaters?

Rectified 10 or 20 kilohertz wouldn't need much filtering compared to 60 or 120 DC ripple of a conventiaonl power supply? Recall building a number of conventional 50 and 60 hertz power supplies many years ago with heavy chokes and large capacitors. But now have a number of slightly older ex computer power supplies of various wattages around.

Or is the idea completly off base?

```
From -4532122285405309077
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d45g2000hsc.googlegroups.com!not-for-
mail
From: beerbarrel <beerbarrel@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: Impoverished Radio Experimenter book set
Date: Wed, 1 Oct 2008 10:21:27 -0700 (PDT)
Organization: http://groups.google.com
Lines: 2
Message-ID: <0f6e4b61-202b-4c84-9bc4-df67b34bc7cc@d45g2000hsc.googlegroups.com>
NNTP-Posting-Host: 24.252.195.51
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1222881687 25011 127.0.0.1 (1 Oct 2008 17:21:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 1 Oct 2008 17:21:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d45g2000hsc.googlegroups.com; posting-host=24.252.195.51;
     posting-account=78jf7goAAABAyQ2nIxOSCv2y5chxwjts
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; Creative ZENcast v2.01.01),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:877

170268256402
```

```
From 8775394776133556543
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <97521a8a-60a9-491f-ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <13eb90fc-8a9f-4ef4-
b1f3-68328fb1637a@a1g2000hsb.googlegroups.com>
<todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com>
<eNSdndRMcrfIIUbVnZ2dnUVZ_oninZ2d@comcast.com>
<hd5od4p66d4dcktp4nf11soua1dqo6029k@4ax.com>
<PIGdnRn1IPhe10HVnZ2dnUVZ_uqdnZ2d@comcast.com>
<vonod49c0ct1brj6q1rkrqujqn257ul180@4ax.com>
<ToidnR6VgI5K5X7VnZ2dnUVZ_rPinZ2d@comcast.com>
Subject: Re: CW is a hobby (off topic BWTH)
```

Lines: 27
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <QrOEk.42$P5.28@nwrddc02.gnilink.net>
Date: Wed, 01 Oct 2008 17:29:20 GMT
NNTP-Posting-Host: 71.110.224.135
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1222882160 71.110.224.135 (Wed, 01 Oct 2008 13:29:20 EDT)
NNTP-Posting-Date: Wed, 01 Oct 2008 13:29:20 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:878
X-Original-Bytes: 2734

> > magazine. QST is the one who lost money, but then that's what voting
> > with your wallet is all about...
>
> Reading QST at B&N is not "sampling". It is hypocritical. Since you are
> boycotting the ARRL by not being a member, your "sampling" of the magazine
> in the book store is absolute hypocrisy. You want the benefits of the
> organization without paying for them. If you are going to boycott the
ARRL,
> do it right. Don't read their magazine.
>
-- And stop using the frequencies they fought to protect without your help.

It is a Psychological defense mechanism to go to great extremes to construct a justification for doing something we deep down feel is wrong. We lie to convince ourselves they have done some great wrong, and we lie to ourselves that we never do wrong to anyone else.

Somehow this has become the norm, but that doesn't mean it isn't anti-social or even destructive behavior.

"Do unto others as you would have them do to you" (and don't fool yourself into believing you really are).

Of course I would prefer no one used ME as a training example, so perhaps I am guilty too. Perhaps if I don't give the person's name I can forgive myself?

From 7159280309310499835
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!1bc6af47!not-for-

```
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <ZKyEk.151029$6p1.91971@en-nntp-07.dc1.easynews.com>
Subject: Re: Reference oscillator frequency = IF?
Lines: 23
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <q6PEk.53$P5.29@nwrddc02.gnilink.net>
Date: Wed, 01 Oct 2008 18:14:46 GMT
NNTP-Posting-Host: 71.110.224.135
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1222884886 71.110.224.135 (Wed, 01 Oct 2008 14:14:46
EDT)
NNTP-Posting-Date: Wed, 01 Oct 2008 14:14:46 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:879

--Doh!

You could always redesign the IF.


"Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in message
news:ZKyEk.151029$6p1.91971@en-nntp-07.dc1.easynews.com...
> I'm thinking it'd be a rather poor idea to make a reference oscillator for
a
> DDS (or PLL) equal in frequency to an IF somewhere in your radio... right?
> Since you're just asking for it to get into the IF itself?
>
> In the ideal world, would one choose reference oscillator frequencies that
> weren't harmonically related to IFs?  I've seen those "IF planning"
> spreadsheets (that calculator where mixer spurs are going to fall), and
such a
> choice seems like a good start.
>
> Thanks,
> ---Joel Koltner
>
>



From -11530850954993241
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
```

From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
Date: Thu, 2 Oct 2008 02:23:10 +0200 (CEST)
Organization: Mostly In Piles
Lines: 63
Message-ID: <Xns9B2AC537B186D2MDWN@194.177.96.78>
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
NNTP-Posting-Host: jcQrSm41ZOpz3AXSJyBgvA.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news1.google.com rec.radio.amateur.homebrew:880

You're pretty much on base with some some slight adjustments.

The switching frequency is about ten times higher about 100KHz or so. The high voltage might be full wave rectified, doubled or boosted by a power factor corrector ... but 300V is close.

The step down transformer is usually an E-E core or ETD core. The toroids are output inductors. An additional inductor is used for 3.3V in some supplies as a magnetic amplifier, which lops off some pulse width from the +5V output.

It's possible to modify a PC supply and add a B+ output but you'd have to re-wind the transformer and output inductor(s).

Usually the outputs are cross-regulated. That is the +5V is the regulated channel and the other outputs track due to the transformer turns ratios (sometimes with help from weighted-sum voltage sensing.) That's why the 5V output has to be loaded to get any output from the +12V.

If the 6.3VDC output was most of the power it would make sense to use the 5V channel for this, strip off the other outputs and wind a new secondary for your B+ in their place.

You're right, the transformer and filter components would be much, much smaller. Though you'll need room for additional EMI filtering... even so it's still much smaller. Some newer PC supplies spread the clock frequency (frequency modulate it with pseudo random noise) which can help.

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> switching action of the rectified 115 or 230 volt AC input?
>

> This high freq AC through various usually toroidal step down transforner windings is then rectified to provided the plus and minus 5, 12 volt outputs etc. Correct?
>
> We recently modified such a power supply to get a single 12 volt DC output at about 20 amps for a particular, amateur radio application. In order to do so we had to load one of the 5 volt ouputs with a couple of amps in order to get the unit to work; but that's normal.
>
> Question: Is it possible to get at that higher AC voltage inside and directly rectify it as a B+ supply for tube equipment? While also possibly tiddling one or more of the 5 volt DC outputs closer to 6.3 volts for tube heaters?
>
> Rectified 10 or 20 kilohertz wouldn't need much filtering compared to 60 or 120 DC ripple of a conventiaonl power supply? Recall building a number of conventional 50 and 60 hertz power supplies many years ago with heavy chokes and large capacitors. But now have a number of slightly older ex computer power supplies of various wattages around.
>
> Or is the idea completly off base?
>

```
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p59g2000hsd.googlegroups.com!not-for-mail
From: legalmind <tedlacosta@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Analysis and Keyword research
Date: Wed, 1 Oct 2008 19:23:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 109
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     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:881
```

Savvy Competitor Analysis and Keyword Research Your Competitors Arent Doing

By Dave Davies - Wed, 10/01/2008 - 5:12pm.
First, let=92s tackle competitive analysis. As an entrepreneur, you're no doubt familiar with some of the conventional wisdom about how to handle competitors. Do your research. Check public records and disclosures about big name firms in your industry. Assess your goals, branding plans, and future efforts in the context of the presumptive goals of your industry rivals. Understand why customers choose competitors over your firm -- both why they like your rivals and why they refuse to work with you.

Beyond this broad and relatively intuitive theorizing about competitor analysis, however, you may not be that up-to-speed on the latest tactics.

First of all, purchase stock in rival companies. This may seem counterintuitive =96 why support a rival firm at all? - but great benefits await. Stockholders get regular reports on firms=92 finances and long-term strategies. You can glean a lot about your rivals=92 positioning -- and see what other stockholders are saying -- all without wasting dozens of hours on frustrating Internet research.

Second, learn from your competitors=92 competitors. You may have heard the expression =93my enemy=92s enemy is my friend.=94 This tactic makes use of a similar concept. You don=92t have to do all the =93oppo=94 research yourself -- you can trade ideas, data, and strategies with mutual competitors. Learn your rivals=92 weaknesses as well their strengths. The devil you know is almost always easier to handle than the devil you don=92t.

Stay up-to-date on what=92s happening in your industry. Go to conferences. Don=92t delegate the responsibility of watching your rivals to a third party. Attend trade shows. Use Google, the Internet, and public archives to investigate competitors. Don=92t let your guard down -- even if you are an established =93big dog=94 in your field. Be knowledgeable and networked, and you will be less likely to be surprised.

Finally, remember that the competitive landscape is always fluid. Your biggest competitor next quarter may be an unknown today. Given the advent of global business markets and the mixing of industries that globalization has created, there is almost no way to anticipate what =93the next big thing=94 will be in your industry. But simply by maintaining a flexible posture, you will be more agile when responding to new challenges.

In terms of keyword research strategies that defy the conventional wisdom, your best bet in general is to try out a variety of tactics in a microcosm and then apply the ones that work in larger =93marketing laboratories.=94

Employ abbreviations, acronyms, and shortcuts -- real shortcuts that people searching on Google would actually use. Keep things simple:

=93personal computer=94 might be abbreviated as =93PC=94; the month of =93January=94 may be abbreviated as =93Jan=94; and so on.

Zero in on better keywords. For instance, if you are marketing a Phoenix real estate site, you might want to have a keyword for =93Phoenix AZ real estate,=94 since many people who search Google will abbreviate Arizona as =93AZ.=94

Anticipate typos, malapropisms, and misspellings when coming up with your keywords. People may type too many or too few letters in a word, omit key vowels, or switch letter orders around by accident. There is a great site -- searchspell.com -- that can help you guess the most popular misspellings and typos for particular words and phrases.

Throw geographical references into your keywords. The more specific your geo targeting, the easier time you will have not only at attracting local business but also at ranking high in the general =93lottery=94 for Google rankings. For instance, if you are advertising a Connecticut law firm, don=92t just create keywords based on permutations of =93Connecticut,=94 =93CT,=94 =93law,=94 =93lawyer,=94 etc. Throw in name=s of nearby towns that your office would service, such as =93Simsbury,=94 =93Avon,=94 =93Farmington,=94 =93Bloomfield,=94 and =93Hartford.=94 You will have an ea=sier time ranking, and your resultant visitors will feel you are speaking and relating more specifically to them.

To increase the effectiveness and conversion of your keywords, think about the action your demographic needs to take and titrate your keywords down to specific action-oriented phrases. =93Los Angeles mortgages=94 has some measure of geographic filtering; =93Los Angeles mortgage brokers=94 is better and more specific. But =93Los Angeles home mortgage application=94 is better by leaps and bounds because the phrase carries a significant amount of implied intent. Of course fewer people will search using that term, but the ones that do are further along in the cycle, closer to closing a deal, and ready to take action.

We at Beanstalk use AdGooroo's keyword tool and competitor analysis services to get an even more in-depth look at what our competitors are doing online to make sure we're not missing anything. In this whole article =96 it's probably the more recommended of the tools.

Finally, consider these all-purpose tips when piecing together your keywords and key phrases: liberally employ descriptive adjectives (=93top=94 and =93free=94); vary up your verbs; use both singular and plur=al permutations of critical words; rank for domain names if and when appropriate; and research what your closest industry rivals do and plot out your marketing strategy at cross purposes, as well as on a parallel track, and see what true independent, even contrarian thinking can do for an enterprise. The bottom line, of course, is persistence and determination. You can get help, like this article, to work smarter. Working harder, of course, is up to you.

From 6796473635232248108
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Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
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Date: Wed, 01 Oct 2008 23:23:03 -0400
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
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X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:882

terry wrote:
> Understand that inside a typical computer switching power supply there
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> switching action of the rectified 115 or 230 volt AC input?
>
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> with heavy chokes and large capacitors. But now have a number of
> slightly older ex computer power supplies of various wattages around.
>
> Or is the idea completly off base?

The "higher voltage" is usually on the line side of the isolation transformer. You would create a safety hazard by accessing that voltage.

A thought might be to use the non-rectified low voltage side to drive a small high frequency step up transformer or use a diode voltage multiplier circuit or a combination of transformer and voltage multiplier.

There is a company that builds high voltage switchers for amateur radio amplifiers, and there have been construction articles to build these. (Check QEX magazine).

Building from a surplus PC power supply would have a cost advantage.

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

```
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NNTP-Posting-Date: Thu, 02 Oct 2008 00:54:50 -0500
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups: rec.radio.amateur.homebrew
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
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Date: Thu, 2 Oct 2008 01:54:50 -0400
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:883

"RFI-EMI-GUY" <Rhyolite@NETTALLY.COM> wrote in message news:48e43e8c$0$4842$9a6e19ea@unlimited.newshosting.com...
> terry wrote:
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> You would create a safety hazard by accessing that voltage.
>
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> high frequency step up transformer or use a diode voltage multiplier circuit
> or a combination of transformer and voltage multiplier.
>
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> amplifiers, and there have been construction articles to build these. (Check
> QEX magazine).
>
> Building from a surplus PC power supply would have a cost advantage.
>
> --
> Joe Leikhim K4SAT
> "The RFI-EMI-GUY"�
>

There's a schematic of a typical (although a bit dated) ATX power supply that shows the concept of a PC power supply design at http://www.pavouk.org/hw/en_atxps.html. Current models might use different components but the basic design will be the same.
Here, you can easily see the building blocks of the supply and how the various voltages are generated.
There's also a link on that page (http://www.webx.dk/oz2cpu/radios/psu-pc1.htm) that demonstrates a way to modify a power supply for high current +13.8V output.

Modification for HV output would obviously involve rewinding the switching transformer to give it a HV winding.

--
Dave M
MasonDG44 at comcast dot net (Just substitute the appropriate characters in the address)

Life is like a roll of toilet paper; the closer it gets to the end, the faster it goes.

From 474631281104431710
X-Google-Language: ENGLISH,ASCII-7-bit
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Message-ID: <LRnYVMKWjH5IFAzt@ifwtech.co.uk>
Date: Thu, 2 Oct 2008 08:31:34 +0100
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39

Xref: g2news1.google.com rec.radio.amateur.homebrew:884

RFI-EMI-GUY wrote:
>
>There is a company that builds high voltage switchers for amateur radio amplifiers, and there have been construction articles to build these. (Check QEX magazine).
>

Regrettably the author of the key article, and owner of the company "Watts Unlimited", died a few years ago.

The commercial unit followed some years after the QEX article. It contained a number of important improvements but schematics were never published. The big unanswered question is why that design had no voltage feedback, and therefore had quite poor output regulation? (We can only speculate that a feedback loop must surely have been tried, but proved unworkable... and then wonder why that should be?)

An example application for the commercial unit:
http://www.gare.co.uk/k5and/8877.htm

>Building from a surplus PC power supply would have a cost advantage.
>

These days, tube RF amplifiers only begin to show a clear advantage over solid-state at 500-1000W RF output, ie 1-2kW DC input. That is way beyond the capabilities of PC power supplies.

A small-scale project based on a PC supply would be a good way to begin to understand the problems, at relatively little cost, but it would be another big step to build (or modify) a much larger SMPS for a serious tube amplifier.

--

73 from Ian GM3SEK
http://www.ifwtech.co.uk/g3sek

From -8939944565852706394
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!c65g2000hsa.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
Date: Thu, 2 Oct 2008 01:19:07 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
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Xref: g2news1.google.com rec.radio.amateur.homebrew:885

>
> The "higher voltage" is usually on the line side of the isolation
> transformer. You would create a safety hazard by accessing that voltage.

> Joe Leikhim K4SAT
> "The RFI-EMI-GUY"=A9
'

Pshaw

I used to make a living fixing TV sets that ran off of the mains wit
no isolation. Needless to say there were millions of these TV's back
in the day, The trick was to use half wave rectification.
You can do the same thing with a PC supply. Instead of using an AC
input you would half wave rectify the AC and and a suitible filter
capacitor to make up for the frequency change. Also you has to use the
neutral as ground, and use a polarized plug in the USA, Now it's true
if the wall outlet got wired the wrong way you could be in for a treat
of epic proportions. So a GFI would be in there somewheres to protect
you. Then your HV DC ground will be at neutral. At which point you
could use a Voltage multiplier to get close to any whole number
multiple of the mains voltage.

Now it's true you you may not get away with this trick on 3 phase or
split phase 220 mains, because then where is the neutral?

73 OM

n8zu

From 5304324662315920239
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!u28g2000hsc.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Switching power supplies question.
Date: Thu, 2 Oct 2008 01:29:22 -0700 (PDT)
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Xref: g2news1.google.com rec.radio.amateur.homebrew:886

On Oct 1, 12:55=A0pm, terry <tsanf...@nf.sympatico.ca> wrote:

>
> We recently modified such a power supply to get a single 12 volt DC
> output at about 20 amps for a particular, amateur radio application.
> In order to do so we had to load one of the 5 volt ouputs with a
> couple of amps in order to get the unit to work; but that's normal.

Hey terry

I did that very same thing loaded the 5volt with 5ohm at 5 watt.
Ran my TenTec 526 off the 12 volt side of the PC power supply.
I thought it was the sweetest thing since sliced bread. Then
people started telling me I had this strange background noise.
They asked me what was going on in my shack. I had this strange
eerie noise in my shack, so they thought. Wasn't in my shack per
say but it was the PC power supply. Nobody knew I was running
a PC supply to power my rig.

73 OM

n7zu

From -2548231575201503065
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
t54g2000hsg.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Switching power supplies question.
Date: Thu, 2 Oct 2008 06:37:03 -0700 (PDT)
Organization: http://groups.google.com
Lines: 45
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 2 Oct 2008 13:37:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t54g2000hsg.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:887

On Oct 2, 4:29=A0am, raypsi <RBorow...@gmail.com> wrote:
> On Oct 1, 12:55=A0pm, terry <tsanf...@nf.sympatico.ca> wrote:
>
>
>
> > We recently modified such a power supply to get a single 12 volt DC
> > output at about 20 amps for a particular, amateur radio application.
> > In order to do so we had to load one of the 5 volt ouputs with a
> > couple of amps in order to get the unit to work; but that's normal.
>
> Hey terry
>
> I did that very same thing loaded the 5volt with 5ohm at 5 watt.
> Ran my TenTec 526 off the 12 volt side of the PC power supply.
> I thought it was the sweetest thing since sliced bread. Then
> people started telling me I had this strange background noise.
> They asked me what was going on in my shack. I had this strange
> eerie noise in my shack, so they thought. Wasn't in my shack per
> say but it was the PC power supply. Nobody knew I was running
> a PC supply to power my rig.
>
> 73 OM
>
> n7zu

I also use a modified PC power supply with no problems. I did add a
filter removed
from a commercial computer SMPS. I dont know the values of the
components but its a Pi filter
and the inductor is wound on what looks like a ferrite rod. The caps
are some pretty big disk

that had the writing rubbed off of them a long time ago. As Grumpy put it. I like to "Frankenstien" some of my projects.

I have been giving some thought as to what it would take to modify a PC power supply for HV use.
I have been thinking along two lines,

1 Connect a second step-up transformer before the rectifiers.
2 Replace the transformer with one with a HV windingputting a 5volt winding on the new transformer for loading and feedback.

Jimmie

```
From -4072463226788431394
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
l42g2000hsc.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Reference oscillator frequency = IF?
Date: Thu, 2 Oct 2008 08:48:23 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <e5981e4e-5490-4883-8145-bf1107cb4ce5@l42g2000hsc.googlegroups.com>
References: <ZKyEk.151029$6p1.91971@en-nntp-07.dc1.easynews.com>
NNTP-Posting-Host: 170.121.14.12
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1222962503 19525 127.0.0.1 (2 Oct 2008 15:48:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 2 Oct 2008 15:48:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l42g2000hsc.googlegroups.com; posting-host=170.121.14.12;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:888
```

On Sep 30, 7:37=A0pm, "Joel Koltner" <zapwireDASHgro...@yahoo.com>
wrote:
> I'm thinking it'd be a rather poor idea to make a reference oscillator fo=
r a
> DDS (or PLL) equal in frequency to an IF somewhere in your radio... right=
?
> Since you're just asking for it to get into the IF itself?
>
> In the ideal world, would one choose reference oscillator frequencies tha=
t

> weren't harmonically related to IFs? =A0I've seen those "IF planning"
> spreadsheets (that calculator where mixer spurs are going to fall), and s=
uch a
> choice seems like a good start.
>
> Thanks,
> ---Joel Koltner

Joel -
  In fact the BFO for your radio is already in the IF bandwidth, and
there probably is some leakage into the IF amp.

  For most applications, you don't notice that leakage unless you
wonder why your AGC is kicking in but you aren't hearing anything.

  I have found that keeping the BFO out of the IF, especially for a
diode-mixer-level BFO (+7dBm) requires putting the BFO in a box.

  I would expect that putting your DDS in a box will help in general.

Tim.

From 2914478448093792581
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 03 Oct 2008 01:12:30 -0500
Date: Thu, 02 Oct 2008 23:12:39 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Reference oscillator frequency = IF?
References: <ZKyEk.151029$6p1.91971@en-nntp-07.dc1.easynews.com>
<4YGdnZdX2IgwXX_VnZ2dnUVZ_gGdnZ2d@web-ster.com>
<4tDEk.311802$TT4.161925@attbi_s22>
In-Reply-To: <4tDEk.311802$TT4.161925@attbi_s22>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <3fSdnaixQtlTKnjVnZ2dnUVZ_uqdnZ2d@web-ster.com>
Lines: 37
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-lxQvHYPSw19DiOch6HM7HBJse1ZQAfa/
Qk2PHV6C612RS18xTuSopu6R1B85BjRQLXShshN8Yl5Wxz/!
lY2HUQRvN+Khf4e7murYUDljYjLSHc659XpC420SW2aqfYnM4E9DYLJAnQTkO1XH3Jn8rMHC9Wn+!
qUh7nLinJ2cqDwE=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3340

```
Erich wrote:
> Tim Wescott wrote:
>> Joel Koltner wrote:
>>> I'm thinking it'd be a rather poor idea to make a reference
>>> oscillator for a DDS (or PLL) equal in frequency to an IF somewhere
>>> in your radio... right? Since you're just asking for it to get into
>>> the IF itself?
>>>
>>> In the ideal world, would one choose reference oscillator frequencies
>>> that weren't harmonically related to IFs?  I've seen those "IF
>>> planning" spreadsheets (that calculator where mixer spurs are going
>>> to fall), and such a choice seems like a good start.
>>
>> I would certainly avoid it.  With thorough enough shielding you can
>> keep just about any signal out of any circuit, but there's no need to
>> tempt fate.
>>
> If you have a decent receiver, you would need over 100db of isolation.
> That is very hard to get in a small space.  One of the arts of receiver
> design is taking care that all of the frequencies and mixing products
> don't show up in the passband.
>
> Erich N6FD

I was thinking of several layers of milled-from-billet cabinets between
the signal and the receiver.  I suppose I should have mentioned just
what I meant by "enough".

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html


From -3456379908281230304
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news-
in-01.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-
nntp-03.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <ZKyEk.151029$6p1.91971@en-nntp-07.dc1.easynews.com>
<4YGdnZdX2IgwXX_VnZ2dnUVZ_gGdnZ2d@web-ster.com>
<4tDEk.311802$TT4.161925@attbi_s22> <3fSdnaixQtlTKnjVnZ2dnUVZ_uqdnZ2d@web-
ster.com>
Subject: Re: Reference oscillator frequency = IF?
Lines: 10
```

```
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <8VrFk.154649$vK2.126144@en-nntp-03.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Fri, 3 Oct 2008 09:39:25 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:3341

"Tim Wescott" <tim@seemywebsite.com> wrote in message
news:3fSdnaixQtlTKnjVnZ2dnUVZ_uqdnZ2d@web-ster.com...
> I was thinking of several layers of milled-from-billet cabinets between the
> signal and the receiver.  I suppose I should have mentioned just what I
> meant by "enough".

Surely it's easier to take the circuit; wrap it in kapton tape, hold it by the
output leads, and dip the entire thing into molten lead? :-)




From -8166054393861699852
X-Google-Thread: fc2a5,80adbe002eff78c7,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!nx01.iad.newshosting.com!
newshosting.com!69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!
news.cv.net!not-for-mail
From: "Yuri Blanarovich" <K3BU@optonline.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Radio Oktoberfest
Date: Fri, 3 Oct 2008 20:18:56 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5512
Lines: 45
Message-ID: <48e6b672$0$5654$607ed4bc@cv.net>
Organization: Optimum Online
NNTP-Posting-Host: 68.193.0.136
X-Complaints-To: abuse@cv.net
X-Original-Bytes: 3037
Xref: g2news2.google.com rec.radio.amateur.homebrew:3342

Guten Tag Radio Aficionados!

Great opportunity to get out and have some fun with ham friends. The special
```

table is reserved for those wearing their callsign hat or badge. Come and celebrate Yuri's 50 years in ham radio and check out this site for future Ham radio conventions the MountainView Resort in Glen Spey, NY.

As you may know, the Ardmore Mansion has been elegantly renovated this past year. Our motel units are currently being refurbished and the Black Sea Ballroom and Brew Pub are beaming with restored wood floors and new interiors. Our new pavilion is almost finished and will be ready for large outdoor events.

We are gearing up now for Oktoberfest, which will be held on Columbus Day weekend, October 11-12, bigger and better than ever. We will be featuring authentic German food and specialty Oktoberfest German beer, vendors, and games for adults and kids alike! The highlight of the evening is Jagermeister's own Fritz's Polka Band, performing live at the Saturday night dance. Also, for two nights only, Dark Forest, the area's premier Halloween events company, is presenting a Haunted House at neighboring Burn Brea Mansion. They will be celebrating the mansion's 100th anniversary by charging the same rates ($10 per person) they charged the last time the show was presented, 10 years ago! Transportation to and from Mountain View will be provided at no additional charge.

On Friday night, October 31, we are hosting a Halloween Masquerade Ball, with costume contests, dancing, and a frightfully fun time for all! Ages 21 and over, please. Then, on Saturday November 1, we present our Fall Festival & Market. Come and sample the best of the area, and enjoy the leaves changing colors while sipping on Mountain View's specialty cider.

Please check the web site for the latest news and programs at www.MVresort.com and check out or download the posters for more information. Spread the news, bring a friend and see the progress at MountainView. We are building our mailing lists and soon will have regular newsletters informing our patrons about the latest and upcoming events at the resort. Please pass on email or postal addresses so we can stay in touch.

See you at MountainView!

Yuri and the crew
please email me if you are coming
K3BU@optimum.net

```
From -9088355575045794528
X-Google-Thread: fc2a5,6e36b30586014e80
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!b1g2000hsg.googlegroups.com!not-for-
mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
```

```
Date: Fri, 3 Oct 2008 20:51:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 78
Message-ID: <b7ccaf6d-961e-404e-8c30-a10e36f52fb1@b1g2000hsg.googlegroups.com>
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
     <cfbc3b1a-5348-424c-9ea2-d808ef4dcebc@u28g2000hsc.googlegroups.com>
     <16a3bee8-5fab-48f0-855f-f453c159d47e@t54g2000hsg.googlegroups.com>
NNTP-Posting-Host: 142.162.129.19
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1223092305 7929 127.0.0.1 (4 Oct 2008 03:51:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 4 Oct 2008 03:51:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b1g2000hsg.googlegroups.com; posting-host=142.162.129.19;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727; .NET CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3343

On Oct 2, 11:37=A0am, jimmi...@gmail.com wrote:
> On Oct 2, 4:29=A0am, raypsi <RBorow...@gmail.com> wrote:
>
>
>
>
>
> > On Oct 1, 12:55=A0pm, terry <tsanf...@nf.sympatico.ca> wrote:
>
> > > We recently modified such a power supply to get a single 12 volt DC
> > > output at about 20 amps for a particular, amateur radio application.
> > > In order to do so we had to load one of the 5 volt outputs with a
> > > couple of amps in order to get the unit to work; but that's normal.
>
> > Hey terry
>
> > I did that very same thing loaded the 5volt with 5ohm at 5 watt.
> > Ran my TenTec 526 off the 12 volt side of the PC power supply.
> > I thought it was the sweetest thing since sliced bread. Then
> > people started telling me I had this strange background noise.
> > They asked me what was going on in my shack. I had this strange
> > eerie noise in my shack, so they thought. Wasn't in my shack per
> > say but it was the PC power supply. Nobody knew I was running
> > a PC supply to power my rig.
>
> > 73 OM
>
> > n7zu
>
> I also use a modified PC power supply with no problems. I did add a
> filter removed
```

> from a commercial computer SMPS. I don't know the values of the
> components but its a Pi filter
> and the inductor is wound on what looks like a ferrite rod. The caps
> are some pretty big disk
> that had the writing rubbed off of them a long time ago. As Grumpy put
> it. I like to "Frankenstien"
> some of my projects.
>
> I have been giving some thought as to what it would take to modify a
> PC power supply for HV use.
> I have been thinking along two lines,
>
> 1 Connect a second step-up transformer before the rectifiers.
> 2 Replace the transformer with one with a HV winding putting a 5volt
> winding on the new
> transformer for loading and feedback.
>
> Jimmie- Hide quoted text -
>
> - Show quoted text -

Great info: Thanks for all the ideas and especially about the warning that the HV would be on the line side (input) from115/230 volt mains. Unless a 60 hertz full isolation transformer were used; the weight and size of which sort of negates the idea of using a lighter weight SPS!

I too used to fix TVs without power transformers, using selenium rectifiers (boy could they stink!) and voltage doubler circuits to provide B+. That was back in the mid late 1950s. I also made up a little B+ power supply in a box clipped in during house calls to show a customer that the problem was indeed inside the chassis and it had to be taken away for a 'bench job'!

By that and means of never charging for a house call if I didn't fix the set in situ; built up a reputation for straightforward dealing which, despite the slightly funny accent of a British immigrant to Canada, some 15 years later, may have helped me become elected to the areas first town council? And that in a day and age when TV repairmen didn't have the best reputation in the world (well at least around here) for ethical dealings!

These days customers are a lot more cynical and questioning; and rightly so!

BTW first heard about SPS in the telephone industry, before PC were common; when power supplier representatives started telling us about 'rectifier/power supplies' that had efficiencies of over 80%.

From -2969751432589138544
X-Google-Thread: fc2a5,980be84b254468ae
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

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Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 04 Oct 2008 10:45:17 -0500
Date: Sat, 04 Oct 2008 08:45:30 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Reference oscillator frequency = IF?
References: <ZKyEk.151029$6p1.91971@en-nntp-07.dc1.easynews.com>
<4YGdnZdX2IgwXX_VnZ2dnUVZ_gGdnZ2d@web-ster.com>
<4tDEk.311802$TT4.161925@attbi_s22> <3fSdnaixQtlTKnjVnZ2dnUVZ_uqdnZ2d@web-
ster.com> <8VrFk.154649$vK2.126144@en-nntp-03.dc1.easynews.com>
In-Reply-To: <8VrFk.154649$vK2.126144@en-nntp-03.dc1.easynews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <j7idnSFOqLgQEnrVnZ2dnUVZ_gqdnZ2d@web-ster.com>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Ud6/pRvHCmFKlgPCJJyCUN7RDN1gNtRHLpn/twmukICE/JcN8T/
31qhN3KYc0TpWvaoqAYvj85TKRTW!
7SFy3eUUppwTzQfiUKWcVaG6AxsNbi4Gn+Ig9UcSrutE8W41xIAp15T7PatDE453lFCDliWCcwt5!
0R5UA0TLw2RTFT8=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3344
```

Joel Koltner wrote:

> "Tim Wescott" <tim@seemywebsite.com> wrote in message
> news:3fSdnaixQtlTKnjVnZ2dnUVZ_uqdnZ2d@web-ster.com...
>> I was thinking of several layers of milled-from-billet cabinets between the
>> signal and the receiver. I suppose I should have mentioned just what I
>> meant by "enough".
>
> Surely it's easier to take the circuit; wrap it in kapton tape, hold it by the
> output leads, and dip the entire thing into molten lead? :-)

That's right. We're radio amateurs. I forgot...

What flux makes lead stick to Kapton?

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.

See details at http://www.wescottdesign.com/actfes/actfes.html

From -2754015657498813648
X-Google-Thread: fc2a5,3dc29c1f7fb9af9f,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!news.kjsl.com!
news.alt.net
From: "justme" <jbleaux@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 2 METER, 440 DUPLEXER
Date: Sat, 4 Oct 2008 13:14:10 -0500
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 5
Message-ID: <2851ak.6p2.19.1@news.alt.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 081004-0, 10/04/2008), Outbound message
X-Antivirus-Status: Clean
Xref: g2news2.google.com rec.radio.amateur.homebrew:3345

Someone has one of these just gathering dust. Please sell it to me.

Thanks

From 5018299602123888092
X-Google-Thread: fc2a5,6e36b30586014e80
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!news.glorb.com!cycny01.gnilink.net!
cyclone1.gnilink.net!gnilink.net!nx01.iad.newshosting.com!newshosting.com!
69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!not-for-mail
Date: Sat, 04 Oct 2008 17:49:56 -0400
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
<48e43e8c$0$4842$9a6e19ea@unlimited.newshosting.com>
<LRnYVMKWjH5IFAzt@ifwtech.co.uk>
In-Reply-To: <LRnYVMKWjH5IFAzt@ifwtech.co.uk>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 35
Message-ID: <48e7e504$0$6167$2318a52a@unlimited.newshosting.com>

Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
NNTP-Posting-Host: 70.121.205.178
X-Complaints-To: abuse@newshosting.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:3346

Ian White GM3SEK wrote:
> RFI-EMI-GUY wrote:
>>
>> There is a company that builds high voltage switchers for amateur
>> radio amplifiers, and there have been construction articles to build
>> these. (Check QEX magazine).
>>
> Regrettably the author of the key article, and owner of the company
> "Watts Unlimited", died a few years ago.
>
> The commercial unit followed some years after the QEX article. It
> contained a number of important improvements but schematics were never
> published. The big unanswered question is why that design had no voltage
> feedback, and therefore had quite poor output regulation? (We can only
> speculate that a feedback loop must surely have been tried, but proved
> unworkable... and then wonder why that should be?)

(snip)

I worked on a 13.8 Volt SMPS made by TODD for Motorola as an OEM without
any documentation. There was a large stud mounted 13.8 Volt zener on the
output to clamp the voltage and some op amp circuitry to sense if the
output voltage fell below 13.8V it would start increasing the PWM to
charge the filter caps. This PS apparently never worked right because
the transformer leads were never soldered and then were plastered in
conformal coating.

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From -6565678284944401432
X-Google-Thread: fc2a5,3dc29c1f7fb9af9f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!8c40745b!not-for-mail
Reply-To: "Dale Parfitt" <parinc1@verizon.net>
From: "Dale Parfitt" <parinc1@verizon.net>

Newsgroups: rec.radio.amateur.homebrew
References: <2851ak.6p2.19.1@news.alt.net>
Subject: Re: 2 METER, 440 DUPLEXER
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Response
Message-ID: <TkYFk.773$yI6.409@nwrddc01.gnilink.net>
Date: Sun, 05 Oct 2008 05:33:39 GMT
NNTP-Posting-Host: 72.71.113.174
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1223184819 72.71.113.174 (Sun, 05 Oct 2008 01:33:39 EDT)
NNTP-Posting-Date: Sun, 05 Oct 2008 01:33:39 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3347
X-Original-Bytes: 1199

"justme" <jbleaux@gmail.com> wrote in message
news:2851ak.6p2.19.1@news.alt.net...
> Someone has one of these just gathering dust. Please sell it to me.
>
> Thanks
>
>

The correct term (no matter what the manufacturers say) is diplexer.

Dale W4OP

From -8568217628125344006
X-Google-Thread: fc2a5,3dc29c1f7fb9af9f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 05 Oct 2008 08:30:36 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <2851ak.6p2.19.1@news.alt.net>
<TkYFk.773$yI6.409@nwrddc01.gnilink.net>
Subject: Re: 2 METER, 440 DUPLEXER
Date: Sun, 5 Oct 2008 09:31:57 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response

Message-ID: <PLCdnZw3XNvhXHXVnZ2dnUVZ_j-dnZ2d@earthlink.com>
Lines: 25
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.225.35.56
X-Trace: sv3-hS8iBd5Ngf4RFlwCfTs5DYki3oD9bnat+clLGplc87zy/
uWFW8K6djPgqGTjVPbQSI+6USi6vWDB1AW!1VgWSG6p7/emQ29JTcN+kTxk39Ty/
bNzvzLC5BIjr6RcthDRKERx605J1nUjZot1ojkS9p5yD6T2!V6fJ0bHLFoFXiV9YcESE4dCuHrSyK/
gFuNWsbQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:897

"Dale Parfitt" <parinc1@verizon.net> wrote in message
news:TkYFk.773$yI6.409@nwrddc01.gnilink.net...
>
> "justme" <jbleaux@gmail.com> wrote in message
> news:2851ak.6p2.19.1@news.alt.net...
>> Someone has one of these just gathering dust. Please sell it to me.
>>
>> Thanks
>>
>>
> The correct term (no matter what the manufacturers say) is diplexer.
>
> Dale W4OP

Sure it is the correct term, but when the manufacture call it a duplexer,
that is what you look for. They are even listed that way in most ham
catalogs. I doubt that you will find a diplexer listed in the ham catalogs.

The AES catalog lists Comet,Diamond , and MFJ duplexers and triplexers, but
not a single diplexer is listed.

From 6014058709186747668
X-Google-Thread: fc2a5,f649611791511e16,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
cleanfeed3-a.proxad.net!nnrp5-2.free.fr!not-for-mail
From: T0M <viepriv�e@fra.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Kenwood TS-140S All modes squelch modification
Date: Sun, 05 Oct 2008 09:27:04 -0500
Organization: XE
Message-ID: <qkjhe4lhf0qogcv5n2a776vegd09n0a2mu@4ax.com>

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X-Newsreader: Forte Agent 1.93/32.576 Francais
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 8
NNTP-Posting-Date: 05 Oct 2008 16:27:05 MEST
NNTP-Posting-Host: 148.243.82.142
X-Trace: 1223216825 news-3.free.fr 24662 148.243.82.142:1062
X-Complaints-To: abuse@proxad.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:3349
```

I know it's possible to do a modifiction to have the squelch working in all modes with a Kenwood TS-14S.
I would like to know if some of you have already made this mod and if it really works.

Thank you in advance,

T0M

```
From -1096557734663399388
X-Google-Thread: fc2a5,6e36b30586014e80
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
k37g2000hsf.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
Date: Sun, 5 Oct 2008 12:31:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 104
Message-ID: <adcef3f2-40d0-4d81-a462-da264853dfef@k37g2000hsf.googlegroups.com>
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
     <cfbc3b1a-5348-424c-9ea2-d808ef4dcebc@u28g2000hsc.googlegroups.com>
     <16a3bee8-5fab-48f0-855f-f453c159d47e@t54g2000hsg.googlegroups.com>
     <b7ccaf6d-961e-404e-8c30-a10e36f52fb1@b1g2000hsg.googlegroups.com>
NNTP-Posting-Host: 155.178.4.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1223235113 12713 127.0.0.1 (5 Oct 2008 19:31:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 5 Oct 2008 19:31:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k37g2000hsf.googlegroups.com; posting-host=155.178.4.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:899
```

On Oct 3, 11:51=A0pm, terry <tsanf...@nf.sympatico.ca> wrote:
> On Oct 2, 11:37=A0am, jimmi...@gmail.com wrote:
>
>
>
>
>
> > On Oct 2, 4:29=A0am, raypsi <RBorow...@gmail.com> wrote:
>
> > > On Oct 1, 12:55=A0pm, terry <tsanf...@nf.sympatico.ca> wrote:
>
> > > > We recently modified such a power supply to get a single 12 volt DC
> > > > output at about 20 amps for a particular, amateur radio application=
.
> > > > In order to do so we had to load one of the 5 volt outputs with a
> > > > couple of amps in order to get the unit to work; but that's normal.
>
> > > Hey terry
>
> > > I did that very same thing loaded the 5volt with 5ohm at 5 watt.
> > > Ran my TenTec 526 off the 12 volt side of the PC power supply.
> > > I thought it was the sweetest thing since sliced bread. Then
> > > people started telling me I had this strange background noise.
> > > They asked me what was going on in my shack. I had this strange
> > > eerie noise in my shack, so they thought. Wasn't in my shack per
> > > say but it was the PC power supply. Nobody knew I was running
> > > a PC supply to power my rig.
>
> > > 73 OM
>
> > > n7zu
>
> > I also use a modified PC power supply with no problems. I did add a
> > filter removed
> > from a commercial computer SMPS. I don't know the values of the
> > components but its a Pi filter
> > and the inductor is wound on what looks like a ferrite rod. The caps
> > are some pretty big disk
> > that had the writing rubbed off of them a long time ago. As Grumpy put
> > it. I like to "Frankenstien"
> > some of my projects.
>
> > I have been giving some thought as to what it would take to modify a
> > PC power supply for HV use.
> > I have been thinking along two lines,
>
> > 1 Connect a second step-up transformer before the rectifiers.
> > 2 Replace the transformer with one with a HV winding putting a 5volt
> > winding on the new
> > transformer for loading and feedback.
>
> > Jimmie- Hide quoted text -
>

> > - Show quoted text -
>
> Great info: Thanks for all the ideas and especially about the warning
> that the HV would be on the line side (input) from115/230 volt mains.
> Unless a 60 hertz full isolation transformer were used; the weight and
> size of which sort of negates the idea of using a lighter weight SPS!
>
> I too used to fix TVs without power transformers, using selenium
> rectifiers (boy could they stink!) and voltage doubler circuits to
> provide B+. That was back in the mid late 1950s. I also made up a
> little B+ power supply in a box clipped in during house calls to show
> a customer that the problem was indeed inside the chassis and it had
> to be taken away for a 'bench job'!
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> By that and means of never charging for a house call if I didn't fix
> the set in situ; built up a reputation for straightforward dealing
> which, despite the slightly funny accent of a British immigrant to
> Canada, some 15 years later, may have helped me become elected to the
> areas first town council? And that in a day and age when TV repairmen
> didn't have the best reputation in the world (well at least around
> here) for ethical dealings!
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> These days customers are a lot more cynical and questioning; and
> rightly so!
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> BTW first heard about SPS in the telephone industry, before PC were
> common; when power supplier representatives started telling us about
> 'rectifier/power supplies' that had efficiencies of over 80%.- Hide quote=
d text -
>
> - Show quoted text -

The 300 volts you wanted is on the input side of the power supply, not
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Jimmie

```
From 1827682125371578583
X-Google-Thread: fc2a5,6e36b30586014e80
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!
nx01.iad.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!tmp-post01.iad!
news.highwinds-media.com!not-for-mail
Date: Sun, 05 Oct 2008 19:17:44 -0400
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
     <cfbc3b1a-5348-424c-9ea2-d808ef4dcebc@u28g2000hsc.googlegroups.com>
     <16a3bee8-5fab-48f0-855f-f453c159d47e@t54g2000hsg.googlegroups.com>
     <b7ccaf6d-961e-404e-8c30-a10e36f52fb1@b1g2000hsg.googlegroups.com>
<adcef3f2-40d0-4d81-a462-da264853dfef@k37g2000hsf.googlegroups.com>
In-Reply-To: <adcef3f2-40d0-4d81-a462-da264853dfef@k37g2000hsf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 102
Message-ID: <48e94b16$0$8500$9a6e19ea@unlimited.newshosting.com>
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
NNTP-Posting-Host: 70.121.205.178
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:900

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>
> Jimmie

Pretty slick let us know how it works out.

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From -6803359473712313563
X-Google-Thread: fc2a5,6e36b30586014e80
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
Date: Mon, 6 Oct 2008 03:11:08 +0200 (CEST)
Organization: Mostly In Piles
Lines: 50
Message-ID: <Xns9B2ECD5632AE2MDWN@194.177.96.78>
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
<cfbc3b1a-5348-424c-9ea2-d808ef4dcebc@u28g2000hsc.googlegroups.com>
<16a3bee8-5fab-48f0-855f-f453c159d47e@t54g2000hsg.googlegroups.com>
<b7ccaf6d-961e-404e-8c30-a10e36f52fb1@b1g2000hsg.googlegroups.com>
<adcef3f2-40d0-4d81-a462-da264853dfef@k37g2000hsf.googlegroups.com>
NNTP-Posting-Host: gXAqL4T4qHNqefhs/2PbHA.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news1.google.com rec.radio.amateur.homebrew:901

You might find this useful Jimmie.

I had some time to cobble together a DC-DC "transformer" this weekend. It is a half-bridge running at 200KHz and fixed 96% duty cycle. The turns ratio is 1:24 and the output is full wave rectified. I'm using an EDT29 core, I think the material is 3C90.

The rectified AC line was ~160V and the output was ~1800V (I'm using a Simpson 260 so the voltages are thereabout.)

After running 300 watts though it for two hours the transformer wasn't near warm. If I take this further I need to build a real load.
A bucket of distilled water and some magnesium sulfate (epsom salt) isn't stable when it's boiling.

It's a small transformer and light. It's not regulated but I think it could replace a much larger laminated steel transformer.

Takes a rainy day for me to find any motivation for stuff like this.
Maybe after winter arrives I'll build it up properly and try it in the SB200.

73

jimmie68@gmail.com wrote in
news:adcef3f2-40d0-4d81-a462-da264853dfef@k37g2000hsf.googlegroups.com:

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>

From 2450437093660794189
X-Google-Thread: 108122,64b3da6b17044c6a,start
X-Google-Thread: fc2a5,64b3da6b17044c6a,start

```
X-Google-Thread: 107ada,64b3da6b17044c6a,start
X-Google-Thread: 110c99,64b3da6b17044c6a,start
X-Google-Thread: 111320,64b3da6b17044c6a,start
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
c60g2000hsf.googlegroups.com!not-for-mail
From: tyreemand@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: New Jersey webcam: Landie
Date: Mon, 6 Oct 2008 06:40:56 -0700 (PDT)
Organization: http://groups.google.com
Lines: 2
Message-ID: <185961b6-739f-4aea-891c-e8dae4ce60ec@c60g2000hsf.googlegroups.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1223300457 22975 127.0.0.1 (6 Oct 2008 13:40:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 6 Oct 2008 13:40:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c60g2000hsf.googlegroups.com; posting-host=92.112.158.156;
     posting-account=8N4mVgoAAABmLLkJQvSeZsuS_r9oM6nG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:682
rec.radio.amateur.homebrew:902 rec.radio.amateur.misc:1242 rec.running:4311
rec.scouting.issues:883

Webcam: Landie,19 year.New Jersey. Viens me voir et tu verras!
http://datesex.xhostar.com/landie1989.htm


From 5970638208372847818
X-Google-Thread: fc2a5,b85401acd1414d07,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l33g2000pri.googlegroups.com!not-for-
mail
From: n.jrokzz2k@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: how to reduce charging time of capacitor
Date: Mon, 6 Oct 2008 14:10:40 -0700 (PDT)
Organization: http://groups.google.com
Lines: 3
Message-ID: <af9e400d-b057-4cc8-8b19-4ae9179b3705@l33g2000pri.googlegroups.com>
NNTP-Posting-Host: 122.163.146.20
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1223327441 13669 127.0.0.1 (6 Oct 2008 21:10:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 6 Oct 2008 21:10:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l33g2000pri.googlegroups.com; posting-host=122.163.146.20;
     posting-account=I7GKMwkAAAAeUsp2C5S5EGKtIl9PWdpT
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
     .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
3.0.04506),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:903
```

here's nikesh jain from india want to know best mechanism for making
an solarroller which takes less time to cross the 1mts arena in
smallest possible time

```
From 9134895501874144633
X-Google-Thread: fc2a5,6e36b30586014e80
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!v72g2000hsv.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
Date: Mon, 6 Oct 2008 19:40:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 58
Message-ID: <520587cc-8466-4e1e-b715-9e60f699aed3@v72g2000hsv.googlegroups.com>
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
     <cfbc3b1a-5348-424c-9ea2-d808ef4dcebc@u28g2000hsc.googlegroups.com>
     <16a3bee8-5fab-48f0-855f-f453c159d47e@t54g2000hsg.googlegroups.com>
     <b7ccaf6d-961e-404e-8c30-a10e36f52fb1@b1g2000hsg.googlegroups.com>
     <adcef3f2-40d0-4d81-a462-da264853dfef@k37g2000hsf.googlegroups.com>
     <Xns9B2ECD5632AE2MDWN@194.177.96.78>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1223347209 13474 127.0.0.1 (7 Oct 2008 02:40:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 7 Oct 2008 02:40:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v72g2000hsv.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:904
```

On Oct 5, 9:11=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> You might find this useful Jimmie.
>
> I had some time to cobble together a DC-DC "transformer" this weekend.
> It is a half-bridge running at 200KHz and fixed 96% duty cycle. The
> turns ratio is 1:24 and the output is full wave rectified. I'm using
> an EDT29 core, I think the material is 3C90.
>
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> a Simpson 260 so the voltages are thereabout.)
>
> After running 300 watts though it for two hours the transformer wasn't
> near warm. =A0If I take this further I need to build a real load.
> A bucket of distilled water and some magnesium sulfate (epsom salt)
> isn't stable when it's boiling.
>
> It's a small transformer and light. =A0It's not regulated but I think it
> could replace a much larger laminated steel transformer.
>
> Takes a rainy day for me to find any motivation for stuff like this.
> Maybe after winter arrives I'll build it up properly and try it in
> the SB200.
>
> 73
>
> jimmi...@gmail.com wrote innews:adcef3f2-40d0-4d81-a462-da264853dfef@k37g=
2000hsf.googlegroups.com:
>
>
>
> > The 300 volts you wanted is on the input side of the power supply, not
> > what you wanted. This does not mean that the output of the power
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> > transformer from a PC power supply and connecting it back to back with
> > the transformer in a working power supply. The output could be
> > rectified and filtered and you would have a cheap to free lightweight
> > line isolated HV power supply. I am in thr process of trying this. I
> > not getting much work done on it due to my present work schedule but
> > in a few weeks things should get back to normal and I will have a
> > chance to play with my toys some more.
>
> > I am just getting in to SMPSs and find it amazing what these things
> > willl do.
> > For example I found a a +- 15 volt unit that puts out 100 amps for
> > each voltage. I can hold the output transformers in my hand, they
> > couldnt weigh more than a pound each.
>
> > Jimmie- Hide quoted text -
>
> - Show quoted text -

Grumpy , when David Smith was testing out the uwave oven power supply
he use a big russian made triode as a dummy load.
Forgot the #, GS 35B or something like that. I was going to get one,
use it for a dummy load now and later build an amp if I dont blow it
up.
Jimmie

```
From -6623447673184002205
X-Google-Thread: fcc6e,b2e6f690f9f0478d,start
X-Google-Thread: 11480d,b2e6f690f9f0478d,start
X-Google-Thread: 108122,b2e6f690f9f0478d,start
X-Google-Thread: fc2a5,b2e6f690f9f0478d,start
X-Google-Thread: 10b9c8,b2e6f690f9f0478d,start
X-Google-Attributes:
gidfcc6e,gid11480d,gid108122,gidfc2a5,gid10b9c8,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news2.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
novia!news-out.readnews.com!transit3.readnews.com!panix!panix2.panix.com!not-for-
mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1220767501@panix.com>
Followup-To: poster
Date: 7 Oct 2008 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 09 Nov 2008 01:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1223359501@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1223359502 27796 166.84.1.2 (7 Oct 2008 06:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 7 Oct 2008 06:05:02 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
X-Original-Bytes: 2661
Xref: g2news1.google.com rec.radio.amateur.antenna:4540 rec.radio.amateur.dx:147
rec.radio.amateur.equipment:684 rec.radio.amateur.homebrew:905 rec.radio.info:269
```

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

```
 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month
```

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

```
From 4814846276938405120
X-Google-Thread: fc2a5,b85401acd1414d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!b30g2000prf.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: how to reduce charging time of capacitor
Date: Tue, 7 Oct 2008 10:53:43 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <e9f20187-9263-4782-85e0-84bcd5227837@b30g2000prf.googlegroups.com>
References: <af9e400d-b057-4cc8-8b19-4ae9179b3705@l33g2000pri.googlegroups.com>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1223402024 32711 127.0.0.1 (7 Oct 2008 17:53:44 GMT)
```

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 7 Oct 2008 17:53:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b30g2000prf.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.2)
     Gecko/2008091620 Firefox/3.0.2,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:906
```

On Oct 6, 2:10=A0pm, n.jrokz...@gmail.com wrote:

> here's nikesh jain from india want to know best mechanism for making
> an solarroller which takes less time to cross the 1mts arena in
> smallest possible time

So I'm not sure what the question really is here. Do you want to charge a capacitor faster, or get some small vehicle to run faster over a particular course?

You can't escape physics: to charge a given capacitance more quickly, feed it more current. If the source of energy for charging it is greatest at a particular voltage (typical of a photovoltaic array), use an efficient converter to go from that voltage to the highest current you can achieve at the instantaneous capacitor voltage.

You can't escape physics: if you want a vehicle to traverse a path in the least time on a given amount of energy, reduce the losses (e.g. friction and air resistance) to a minimum. As a second-order effect, consider how inertia affects the speed too.

Though you can put some practical bounds on how well you should expect to be able to do, there are certainly many ways to arrive at a solution. Engineering solutions like this practically always involves compromises and tradeoffs. You get to decide how to best accomplish what you want to do, always under some constraints that generally include both explicit and implicit ones. Math is one of the tools you can use to optimize your solution: consider the equations for motion and loss of energy; consider the equations for conversion of energy from one form to another.

Cheers,
Tom

```
From 1292951968402745195
X-Google-Thread: fc2a5,b85401acd1414d07
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
```

From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <af9e400d-b057-4cc8-8b19-4ae9179b3705@l33g2000pri.googlegroups.com>
Subject: Re: how to reduce charging time of capacitor
Lines: 17
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <_kWGk.1473$P5.370@nwrddc02.gnilink.net>
Date: Wed, 08 Oct 2008 04:06:18 GMT
NNTP-Posting-Host: 71.110.233.37
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1223438778 71.110.233.37 (Wed, 08 Oct 2008 00:06:18 EDT)
NNTP-Posting-Date: Wed, 08 Oct 2008 00:06:18 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:907
X-Original-Bytes: 1733

A resistor in series is the simplest way.

You can slow charge while powering a light load, then short the resistor
into the load for a burst of current for a high load, but if that's not
enough, will you still have enough to charge the capacitor AND power a
medium load.

It won't get you up a hill, but it might be enough to get you rolling.
Gearing change might be more versatile for the same weight

<n.jrokzz2k@gmail.com> wrote in message
news:af9e400d-b057-4cc8-8b19-4ae9179b3705@l33g2000pri.googlegroups.com...
> here's nikesh jain from india want to know best mechanism for making
> an solarroller which takes less time to cross the 1mts arena in
> smallest possible time

From -9156675594594247976
X-Google-Thread: fc2a5,6e36b30586014e80
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!d1g2000hsg.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
Date: Wed, 8 Oct 2008 07:09:03 -0700 (PDT)
Organization: http://groups.google.com

```
Lines: 60
Message-ID: <c5bf56af-597a-412f-976e-f82a9a7265e4@d1g2000hsg.googlegroups.com>
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
     <cfbc3b1a-5348-424c-9ea2-d808ef4dcebc@u28g2000hsc.googlegroups.com>
     <16a3bee8-5fab-48f0-855f-f453c159d47e@t54g2000hsg.googlegroups.com>
     <b7ccaf6d-961e-404e-8c30-a10e36f52fb1@b1g2000hsg.googlegroups.com>
     <adcef3f2-40d0-4d81-a462-da264853dfef@k37g2000hsf.googlegroups.com>
     <Xns9B2ECD5632AE2MDWN@194.177.96.78>
NNTP-Posting-Host: 155.178.4.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1223474943 14580 127.0.0.1 (8 Oct 2008 14:09:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 8 Oct 2008 14:09:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d1g2000hsg.googlegroups.com; posting-host=155.178.4.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3359

On Oct 5, 9:11=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> You might find this useful Jimmie.
>
> I had some time to cobble together a DC-DC "transformer" this weekend.
> It is a half-bridge running at 200KHz and fixed 96% duty cycle. The
> turns ratio is 1:24 and the output is full wave rectified. I'm using
> an EDT29 core, I think the material is 3C90.
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> The rectified AC line was ~160V and the output was ~1800V (I'm using
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>
> After running 300 watts though it for two hours the transformer wasn't
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> A bucket of distilled water and some magnesium sulfate (epsom salt)
> isn't stable when it's boiling.
>
> It's a small transformer and light. =A0It's not regulated but I think it
> could replace a much larger laminated steel transformer.
>
> Takes a rainy day for me to find any motivation for stuff like this.
> Maybe after winter arrives I'll build it up properly and try it in
> the SB200.
>
> 73
>
> jimmi...@gmail.com wrote innews:adcef3f2-40d0-4d81-a462-da264853dfef@k37g=
2000hsf.googlegroups.com:
>
>
>
```

> > The 300 volts you wanted is on the input side of the power supply, not
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> > in a few weeks things should get back to normal and I will have a
> > chance to play with my toys some more.
>
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> > willl do.
> > For example I found a a +- 15 volt unit that puts out 100 amps for
> > each voltage. I can hold the output transformers in my hand, they
> > couldnt weigh more than a pound each.
>
> > Jimmie- Hide quoted text -
>
> - Show quoted text -

I had a little time yesterday and opened up a PC power supply and
brought the 3 taps off of the transformer out to binding post. The
plan is to build a transformer that will step the voltage back up to
about 800 volts or so, enough for my little 6146B 6M amp.

Jimmie.

JImmie

From 3924813927768103257
X-Google-Thread: fc2a5,6e36b30586014e80
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!z6g2000pre.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
Date: Wed, 8 Oct 2008 07:09:44 -0700 (PDT)
Organization: http://groups.google.com
Lines: 69
Message-ID: <11654c97-cace-4df8-b1bd-09414ffc3106@z6g2000pre.googlegroups.com>
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
<cfbc3b1a-5348-424c-9ea2-d808ef4dcebc@u28g2000hsc.googlegroups.com>
<16a3bee8-5fab-48f0-855f-f453c159d47e@t54g2000hsg.googlegroups.com>
<b7ccaf6d-961e-404e-8c30-a10e36f52fb1@b1g2000hsg.googlegroups.com>
<adcef3f2-40d0-4d81-a462-da264853dfef@k37g2000hsf.googlegroups.com>
<Xns9B2ECD5632AE2MDWN@194.177.96.78> <520587cc-8466-4e1e-b715-9e60f699aed3@v72g2000hsv.googlegroups.com>
NNTP-Posting-Host: 155.178.4.10

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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1223474984 14687 127.0.0.1 (8 Oct 2008 14:09:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 8 Oct 2008 14:09:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z6g2000pre.googlegroups.com; posting-host=155.178.4.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3360

On Oct 6, 10:40=A0pm, jimmi...@gmail.com wrote:
> On Oct 5, 9:11=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
>
>
>
>
>
> > You might find this useful Jimmie.
>
> > I had some time to cobble together a DC-DC "transformer" this weekend.
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>
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> > A bucket of distilled water and some magnesium sulfate (epsom salt)
> > isn't stable when it's boiling.
>
> > It's a small transformer and light. =A0It's not regulated but I think i=
t
> > could replace a much larger laminated steel transformer.
>
> > Takes a rainy day for me to find any motivation for stuff like this.
> > Maybe after winter arrives I'll build it up properly and try it in
> > the SB200.
>
> > 73
>
> > jimmi...@gmail.com wrote innews:adcef3f2-40d0-4d81-a462-da264853dfef@k3=
7g2000hsf.googlegroups.com:
>
> > > The 300 volts you wanted is on the input side of the power supply, no=
t
> > > what you wanted. This does not mean that the output of the power
> > > supply is not isolated from the mains. The type of switching power
> > > supply you wanted is probably doable. Think about removing the output
> > > transformer from a PC power supply and connecting it back to back wit=
h
> > > the transformer in a working power supply. The output could be
> > > rectified and filtered and you would have a cheap to free lightweight
> > > line isolated HV power supply. I am in thr process of trying this. I
> > > not getting much work done on it due to my present work schedule but
> > > in a few weeks things should get back to normal and I will have a
> > > chance to play with my toys some more.
>
> > > I am just getting in to SMPSs and find it amazing what these things
> > > willl do.
> > > For example I found a a +- 15 volt unit that puts out 100 amps for
> > > each voltage. I can hold the output transformers in my hand, they
> > > couldnt weigh more than a pound each.
>
> > > Jimmie- Hide quoted text -
>
> > - Show quoted text -
>
> Grumpy , when David Smith was testing out the uwave oven power supply
> he use a big russian made triode as a dummy load.
> Forgot the #, GS 35B or something like that. I was going to get one,
> use it for a dummy load now and later build an amp if I dont blow it
> up.
> Jimmie- Hide quoted text -
>
> - Show quoted text -

should have been GU 35B


From -110197175681451651
X-Google-Thread: fc2a5,94372013c284df1e,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
news.astraweb.com!border2.newsrouter.astraweb.com!flpi089.ffdc.sbc.com!
prodigy.net!flpi088.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi067.nbdc.sbc.com.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: eBay: some radio & parts
Lines: 1
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <LV4Hk.2812$ZP4.2170@nlpi067.nbdc.sbc.com>
NNTP-Posting-Host: 64.149.32.23
X-Complaints-To: abuse@prodigy.net
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12:08:11 EDT)
NNTP-Posting-Date: Wed, 08 Oct 2008 12:08:11 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
FKPO@MC@@S@ERQXXKZOX_RXAUSXB@DTMNHWB_EYLJZ]BGIEL_NTKAH_[JTXDX_KI\VB]JBVMS^YT_G[CZV
WAOS\DHFWEH]@KGXYHB\_CMDSFABP^J[AHHRKARLE_JDBLJ\XA[JRMEI]MGJSPB\Y]^KG\@S^@VQKI_Q[G
@@_ACSARASDEFLBJ]S\GFNTUAVBL
Date: Wed, 8 Oct 2008 11:08:10 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:910
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http://search.ebay.com/_W0QQsassZwd5jfrQQfrppZ50QQfsopZ32QQfsooZ2QQrdZ0

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From 7917063633480299755
X-Google-Thread: fc2a5,6e36b30586014e80
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
news.buerger.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
Date: Thu, 9 Oct 2008 01:47:00 +0200 (CEST)
Organization: Mostly In Piles
Lines: 16
Message-ID: <Xns9B31BF144518D2MDWN@194.177.96.78>
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
<cfbc3b1a-5348-424c-9ea2-d808ef4dcebc@u28g2000hsc.googlegroups.com>
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<b7ccaf6d-961e-404e-8c30-a10e36f52fb1@b1g2000hsg.googlegroups.com>
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f82a9a7265e4@d1g2000hsg.googlegroups.com>
NNTP-Posting-Host: xV/5H6uIojLHWTa18+vAbg.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news2.google.com rec.radio.amateur.homebrew:3362
```

What will you use for an inductor in the output filter
following the second transformer?

jimmie68@gmail.com wrote in
news:c5bf56af-597a-412f-976e-f82a9a7265e4@d1g2000hsg.googlegroups.com:

```
> I had a little time yesterday and opened up a PC power supply and
> brought the 3 taps off of the transformer out to binding post. The
> plan is to build a transformer that will step the voltage back up to
> about 800 volts or so, enough for my little 6146B 6M amp.
>
> Jimmie.


From -3246259840440589222
X-Google-Thread: 108122,68829320e805779b,start
X-Google-Thread: fc2a5,68829320e805779b,start
X-Google-Thread: 107ada,68829320e805779b,start
X-Google-Thread: 110c99,68829320e805779b,start
X-Google-Thread: 111320,68829320e805779b,start
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!u29g2000pro.googlegroups.com!not-for-
mail
From: tyreemand@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: Halle Berry's uncut Sex Scene in Monsters Ball
Date: Thu, 9 Oct 2008 09:25:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 2
Message-ID: <7d70eba9-b856-4417-8615-0da41e4e43ec@u29g2000pro.googlegroups.com>
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X-Trace: posting.google.com 1223569546 4425 127.0.0.1 (9 Oct 2008 16:25:46 GMT)
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NNTP-Posting-Date: Thu, 9 Oct 2008 16:25:46 +0000 (UTC)
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Injection-Info: u29g2000pro.googlegroups.com; posting-host=92.112.147.71;
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     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:692
rec.radio.amateur.homebrew:912 rec.radio.amateur.misc:1285 rec.running:4383
rec.scouting.issues:884

Halle Berry's uncut Sex Scene in Monsters Ball  http://
spirs_manyac.googlegroups.com/web/halle
berry.htm


From -8875633013008745181
X-Google-Thread: fc2a5,6e36b30586014e80
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!f77g2000hsf.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
Date: Thu, 9 Oct 2008 19:42:06 -0700 (PDT)
Organization: http://groups.google.com
Lines: 39
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References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
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f82a9a7265e4@d1g2000hsg.googlegroups.com>
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NNTP-Posting-Date: Fri, 10 Oct 2008 02:42:06 +0000 (UTC)
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:913

On Oct 8, 7:47=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> What will you use for an inductor in the output filter
> following the second transformer?
>
> jimmi...@gmail.com wrote innews:c5bf56af-597a-412f-976e-f82a9a7265e4@d1g2=
000hsg.googlegroups.com:
>
>
>
> > I had a little time yesterday and opened up a PC power supply and
> > brought the 3 taps off of the transformer out to binding post. The
> > plan is to build a transformer that will step the voltage back up to
> > about 800 volts or so, enough for my little 6146B 6M amp.
>
> > Jimmie.- Hide quoted text -
>
> - Show quoted text -

Like you said I like to Frankenstien things. I have a filter from
```

another power supply but I am not sure how well it will work as it was designed for about 25 amps. Basically thats a bridge I will jump off of when I come to it. Right now I am having enough trouble finding an old PC power supply I can get a transformer from. Its hard to believe about a couple of months ago I tossed about a dozen of them. Last time I listen to my wife. I do have a couple of transformers from some old Lambda power supplies. Thes are some really nice ones probably capable of handling a couple of Kwatts. Im not ready to experiment with them yet. Although this is learning by destuction it's cautious destruction. I will probably take a trip down to the local computer place this weekend and do a little dumpster diving or make a run on the goodwill store and see what I can get for $10. IF you havent figured it out by now I love building things from others discards. When I was in high schooI I built a killer stereo, I thought at the time, from old stuff I found in the dump that was the envy of most of my friends. Ive enjoyed doing it ever since.

Jimmie

Jimmie

From 7410660164324756001
X-Google-Thread: fc2a5,6e36b30586014e80
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!club-internet.fr!feedme-small.clubint.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
Date: Fri, 10 Oct 2008 05:11:40 +0200 (CEST)
Organization: Mostly In Piles
Lines: 39
Message-ID: <Xns9B32E1C6B39D82MDWN@194.177.96.78>
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
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<16a3bee8-5fab-48f0-855f-f453c159d47e@t54g2000hsg.googlegroups.com>
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<adcef3f2-40d0-4d81-a462-da264853dfef@k37g2000hsf.googlegroups.com>
<Xns9B2ECD5632AE2MDWN@194.177.96.78> <c5bf56af-597a-412f-976e-f82a9a7265e4@d1g2000hsg.googlegroups.com> <Xns9B31BF144518D2MDWN@194.177.96.78>
<d1314eb0-8138-4a4c-8361-f59d15455d25@f77g2000hsf.googlegroups.com>
NNTP-Posting-Host: g7kS29Oj6kt924NkEjzPYg.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news1.google.com rec.radio.amateur.homebrew:914

Cobbling stuff together is lots of fun. From Pressman's book you can figure out the inductor value.

I'm guessing a powdered iron toroid from the output of a PC power supply would work. Probably need quite a few turns of moderate size ~22AWG magnet wire. Maybe 300 turns... ugh. Makes my hands hurt just thinking about it. I guess a bobbin wound inductor would be better. Gapped ferrite isn't bad!

Check this site http://schmidt-walter.eit.h-da.de/smps_e/smps_e.html

I try to stay away from dumpsters but if I see anything electrical or electronic in one it's neigh impossible.

jimmie68@gmail.com wrote in
news:d1314eb0-8138-4a4c-8361-f59d15455d25@f77g2000hsf.googlegroups.com:

> Like you said I like to Frankenstien things. I have a filter from another power supply but I am not sure how well it will work as it was designed for about 25 amps. Basically thats a bridge I will jump off of when I come to it. Right now I am having enough trouble finding an old PC power supply I can get a transformer from. Its hard to believe about a couple of months ago I tossed about a dozen of them. Last time I listen to my wife. I do have a couple of transformers from some old Lambda power supplies. Thes are some really nice ones probably capable of handling a couple of Kwatts. Im not ready to experiment with them yet. Although this is learning by destuction it's cautious destruction. I will probably take a trip down to the local computer place this weekend and do a little dumpster diving or make a run on the goodwill store and see what I can get for $10. IF you havent figured it out by now I love building things from others discards. When I was in high schooI I built a killer stereo, I thought at the time, from old stuff I found in the dump that was the envy of most of my friends. Ive enjoyed doing it ever since.
>
> Jimmie

From -209430083129508893
X-Google-Thread: fc2a5,3b4f73404c92d22b,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k16g2000hsf.googlegroups.com!not-for-mail
From: just_rtfm@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Hellenedyne: a new type of regen-reflex radio
Date: Thu, 9 Oct 2008 22:15:03 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <e26d552c-9837-4a9f-aea8-49f4de517652@k16g2000hsf.googlegroups.com>
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X-Trace: posting.google.com 1223615703 28310 127.0.0.1 (10 Oct 2008 05:15:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 10 Oct 2008 05:15:03 +0000 (UTC)
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X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.9)
     Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:915
```

hi everyone:

i designed a new type of regen-reflex radio called the Hellenedyne. it uses a single triode in cathode follower mode at RF and in grounded grid mode at AF. the tube i selected needs only 18 volts of plate. it can be used with low-impedance earbuds for good sound. output is high compared to an Armstrong regenerator. if you love single tube designs you must try this one! explaination and circuit are available at my website:

http://home.comcast.net/~phils_radio_designs/index.htm

regards,
phil :)

PS if you wish to contact me feel free to send an e-mail

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From -851903398659554546
X-Google-Thread: fc2a5,6e36b30586014e80
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!1g2000prd.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
Date: Fri, 10 Oct 2008 04:37:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 52
Message-ID: <63056c2d-986b-447d-bc21-6a61c83209c2@1g2000prd.googlegroups.com>
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     <adcef3f2-40d0-4d81-a462-da264853dfef@k37g2000hsf.googlegroups.com>
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     <Xns9B31BF144518D2MDWN@194.177.96.78> <d1314eb0-8138-4a4c-8361-
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 10 Oct 2008 11:37:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 1g2000prd.googlegroups.com; posting-host=155.178.4.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:916

On Oct 9, 11:11=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> Cobbling stuff together is lots of fun. =A0From Pressman's
> book you can figure out the inductor value. =A0
>
> I'm guessing a powdered iron toroid from the output of a PC
> power supply would work. =A0Probably need quite a few turns of
> moderate size ~22AWG magnet wire. =A0Maybe 300 turns... =A0ugh.
> Makes my hands hurt just thinking about it. =A0I guess a bobbin
> wound inductor would be better. =A0Gapped ferrite isn't bad!
>
> Check this sitehttp://schmidt-walter.eit.h-da.de/smps_e/smps_e.html=A0
>
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> or electronic in one it's neigh impossible.
>
> jimmi...@gmail.com wrote innews:d1314eb0-8138-4a4c-8361-f59d15455d25@f77g=
2000hsf.googlegroups.com:
>
>
>
>
>
> > Like you said I like to Frankenstien things. I have a filter from
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I
> > thought at the time, from old stuff I found in the dump that was the
```

> > envy of most of my friends. Ive enjoyed doing it ever since.
>
> > Jimmie- Hide quoted text -
>
> - Show quoted text -

From what I gather fro mthe website there is little danger in making L
to large within reason so I can expect my bits and pieces removed from
old power supplies to work. If they dont its probably because its too
small.

Jimmie

```
From 4123555446308315818
X-Google-Thread: fc2a5,6e36b30586014e80
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
Date: Fri, 10 Oct 2008 06:34:17 -0700 (PDT)
Organization: http://groups.google.com
Lines: 51
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     <16a3bee8-5fab-48f0-855f-f453c159d47e@t54g2000hsg.googlegroups.com>
     <b7ccaf6d-961e-404e-8c30-a10e36f52fb1@b1g2000hsg.googlegroups.com>
     <adcef3f2-40d0-4d81-a462-da264853dfef@k37g2000hsf.googlegroups.com>
     <Xns9B2ECD5632AE2MDWN@194.177.96.78> <c5bf56af-597a-412f-976e-
f82a9a7265e4@d1g2000hsg.googlegroups.com>
     <Xns9B31BF144518D2MDWN@194.177.96.78> <d1314eb0-8138-4a4c-8361-
f59d15455d25@f77g2000hsf.googlegroups.com>
     <Xns9B32E1C6B39D82MDWN@194.177.96.78>
NNTP-Posting-Host: 155.178.4.10
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1223645657 28960 127.0.0.1 (10 Oct 2008 13:34:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 10 Oct 2008 13:34:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p58g2000hsb.googlegroups.com; posting-host=155.178.4.10;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:917
```

On Oct 9, 11:11=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> Cobbling stuff together is lots of fun. =A0From Pressman's
> book you can figure out the inductor value. =A0
>
> I'm guessing a powdered iron toroid from the output of a PC
> power supply would work. =A0Probably need quite a few turns of
> moderate size ~22AWG magnet wire. =A0Maybe 300 turns... =A0ugh.
> Makes my hands hurt just thinking about it. =A0I guess a bobbin
> wound inductor would be better. =A0Gapped ferrite isn't bad!
>
> Check this sitehttp://schmidt-walter.eit.h-da.de/smps_e/smps_e.html=A0
>
> I try to stay away from dumpsters but if I see anything electrical
> or electronic in one it's neigh impossible.
>
> jimmi...@gmail.com wrote innews:d1314eb0-8138-4a4c-8361-f59d15455d25@f77g=
2000hsf.googlegroups.com:
>
>
>
>
>
> > Like you said I like to Frankenstien things. I have a filter from
> > another power supply but I am not sure how well it will work
> > as it was designed for about 25 amps. Basically thats a bridge I will
> > jump off of when I come to it. Right now I am having enough trouble
> > finding an old PC power supply I can get a transformer from. Its hard
> > to believe about a couple of months ago I tossed about a dozen of
> > them. Last time I listen to my wife. I do have a couple of
> > transformers from some old Lambda power supplies. Thes are some really
> > nice ones probably capable of handling a couple of =A0Kwatts. Im not
> > ready to experiment with them yet. Although this is learning by
> > destuction it's cautious destruction. I will probably take a trip down
> > to the local computer place this weekend and do a little dumpster
> > diving or make a run on the goodwill store and see what I can get for
> > $10. IF you havent figured it out by now I love building things from
> > others discards. When I was in high schooI =A0I built a killer stereo, =
I
> > thought at the time, from old stuff I found in the dump that was the
> > envy of most of my friends. Ive enjoyed doing it ever since.
>
> > Jimmie- Hide quoted text -
>
> - Show quoted text -

The computer aided design was a big help. I figured 16mH. I think I
have something about that size. I have a 20mH choke at one amp that
may work.
What you think Grumpy.

Jimmie

```
From -8046058570732344130
X-Google-Thread: 108122,e23a5c761021cf23,start
X-Google-Thread: fc2a5,e23a5c761021cf23,start
X-Google-Thread: 107ada,e23a5c761021cf23,start
X-Google-Thread: 110c99,e23a5c761021cf23,start
X-Google-Thread: 111320,e23a5c761021cf23,start
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!8g2000hse.googlegroups.com!not-for-
mail
From: tyreemand@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: Enormous amount webcams womans showing groupsex. Free
Date: Fri, 10 Oct 2008 06:56:57 -0700 (PDT)
Organization: http://groups.google.com
Lines: 1
Message-ID: <eb71d972-58de-4bf2-a317-56eccc67cee0@8g2000hse.googlegroups.com>
NNTP-Posting-Host: 92.112.145.174
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1223647017 1090 127.0.0.1 (10 Oct 2008 13:56:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 10 Oct 2008 13:56:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 8g2000hse.googlegroups.com; posting-host=92.112.145.174;
     posting-account=8N4mVgoAAABmLLkJQvSeZsuS_r9oM6nG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:695
rec.radio.amateur.homebrew:918 rec.radio.amateur.misc:1287 rec.running:4400
rec.scouting.issues:886

Enormous amount webcams womans showing groupsex. http://sexystory.psend.com/
groupsex.htm


From 4971091422852966457
X-Google-Thread: fc2a5,17256ded65563e8c,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
feeder.erje.net!border1.nntp.ams.giganews.com!nntp.giganews.com!
newsfeed101.telia.com!nf02.dk.telia.net!news.tele.dk!news.tele.dk!
small.news.tele.dk!bnewspeer01.bru.ops.eu.uu.net!emea.uu.net!peer-
uk.news.demon.net!kibo.news.demon.net!mutlu.news.demon.net!news.demon.co.uk!demon!
not-for-mail
From: Ken <ken@g3msw.demon.co.uk>
```

Newsgroups: rec.radio.amateur.homebrew
Subject: Adonis AM-802 Desk Microphone
Date: Fri, 10 Oct 2008 16:31:26 +0100
Lines: 1
Message-ID: <gcnsgf$2j9$1$8302bc10@news.demon.co.uk>
NNTP-Posting-Host: g3msw.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.demon.co.uk 1223652687 2665 83.104.130.18 (10 Oct 2008 15:31:27 GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Fri, 10 Oct 2008 15:31:27 +0000 (UTC)
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
Xref: g2news1.google.com rec.radio.amateur.homebrew:919

an anyone help with a scematic for this, please?

From 4466704968448468259
X-Google-Thread: fc2a5,3c98620400eed50b,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!club-internet.fr!feedme-
small.clubint.net!feeder.news.tin.it!spool.news.tin.it!not-for-mail
From: "moreradio" <moreradio@alice.it>
Newsgroups: rec.radio.amateur.homebrew
Subject: Motorola HF receiver Micom-1
Date: Fri, 10 Oct 2008 20:22:04 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Lines: 9
Message-ID: <48ef9d4a$0$1089$4fafbaef@reader1.news.tin.it>
Organization: TIN.IT (http://www.tin.it)
X-Comments: Please send technical notifications to newsmaster@tin.it
NNTP-Posting-Host: 82.55.232.62
X-Trace: 1223662922 reader1.news.tin.it 1089 82.55.232.62:6550
X-Complaints-To: Please send abuse reports to abuse@retail.telecomitalia.it
Xref: g2news2.google.com rec.radio.amateur.homebrew:3371

Hello,
I'm looking for some expertise on how to convert the receiver I have, without tuning wheel, in a receiver with tuning wheel. I tryed to install a suitable shaft encoder but it seems to me it need different fw version. Any help?

Claudio

```
From 2797598563757900818
X-Google-Thread: fc2a5,6e36b30586014e80
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!r66g2000hsg.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
Date: Sat, 11 Oct 2008 09:48:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 70
Message-ID: <22bd0d76-981f-4fce-bb3d-da3ac469afc2@r66g2000hsg.googlegroups.com>
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
     <cfbc3b1a-5348-424c-9ea2-d808ef4dcebc@u28g2000hsc.googlegroups.com>
     <16a3bee8-5fab-48f0-855f-f453c159d47e@t54g2000hsg.googlegroups.com>
     <b7ccaf6d-961e-404e-8c30-a10e36f52fb1@b1g2000hsg.googlegroups.com>
     <adcef3f2-40d0-4d81-a462-da264853dfef@k37g2000hsf.googlegroups.com>
     <Xns9B2ECD5632AE2MDWN@194.177.96.78> <c5bf56af-597a-412f-976e-
f82a9a7265e4@d1g2000hsg.googlegroups.com>
     <Xns9B31BF144518D2MDWN@194.177.96.78> <d1314eb0-8138-4a4c-8361-
f59d15455d25@f77g2000hsf.googlegroups.com>
     <Xns9B32E1C6B39D82MDWN@194.177.96.78> <7c5a1a81-f131-4002-
b626-1f6b49b28e5a@p58g2000hsb.googlegroups.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1223743726 9488 127.0.0.1 (11 Oct 2008 16:48:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 11 Oct 2008 16:48:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r66g2000hsg.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:921

On Oct 10, 9:34=A0am, jimmi...@gmail.com wrote:
> On Oct 9, 11:11=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
>
>
>
>
>
> > Cobbling stuff together is lots of fun. =A0From Pressman's
> > book you can figure out the inductor value. =A0
>
> > I'm guessing a powdered iron toroid from the output of a PC
> > power supply would work. =A0Probably need quite a few turns of
> > moderate size ~22AWG magnet wire. =A0Maybe 300 turns... =A0ugh.
```

> > Makes my hands hurt just thinking about it. =A0I guess a bobbin
> > wound inductor would be better. =A0Gapped ferrite isn't bad!
>
> > Check this sitehttp://schmidt-walter.eit.h-da.de/smps_e/smps_e.html=A0
>
> > I try to stay away from dumpsters but if I see anything electrical
> > or electronic in one it's neigh impossible.
>
> > jimmi...@gmail.com wrote innews:d1314eb0-8138-4a4c-8361-f59d15455d25@f7=
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> > > Like you said I like to Frankenstien things. I have a filter from
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> > > as it was designed for about 25 amps. Basically thats a bridge I will
> > > jump off of when I come to it. Right now I am having enough trouble
> > > finding an old PC power supply I can get a transformer from. Its hard
> > > to believe about a couple of months ago I tossed about a dozen of
> > > them. Last time I listen to my wife. I do have a couple of
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> > > nice ones probably capable of handling a couple of =A0Kwatts. Im not
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> > > destuction it's cautious destruction. I will probably take a trip dow=
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> > > to the local computer place this weekend and do a little dumpster
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> > > $10. IF you havent figured it out by now I love building things from
> > > others discards. When I was in high schooI =A0I built a killer stereo=
, I
> > > thought at the time, from old stuff I found in the dump that was the
> > > envy of most of my friends. Ive enjoyed doing it ever since.
>
> > > Jimmie- Hide quoted text -
>
> > - Show quoted text -
>
> The computer aided design was a big help. I figured 16mH. I think I
> have something about that size. I have a 20mH choke at one amp that
> may work.
> What you think Grumpy.
>
> Jimmie- Hide quoted text -
>
> - Show quoted text -

This is just way to cool. I took a 500watt Lambmda 15 volt switcher I
had used to power a solidstate amp and wound another secondary on the
transformer. I lost count of the numer of turns, maybe 100, but
after filtering and rectifying im getting about 450 volts and it has
been running since about 9:30 AM 3hrs putting out 150mA.

These transformers look a little wierd They seem to be two sepated
coils fastened together on a frame. It looks like you could take the

secondary coil off and replace it if you wanted to.
Grumpy , are you familar with this.

Jimmie

From 4166719101939215980
X-Google-Thread: fc2a5,6e36b30586014e80
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Switching power supplies question.
Date: Sat, 11 Oct 2008 19:39:32 +0200 (CEST)
Organization: Mostly In Piles
Lines: 32
Message-ID: <Xns9B3480C7133D72MDWN@194.177.96.78>
References: <56b87321-1b0c-462b-a26c-4926578ba1c8@e17g2000hsg.googlegroups.com>
<cfbc3b1a-5348-424c-9ea2-d808ef4dcebc@u28g2000hsc.googlegroups.com>
<16a3bee8-5fab-48f0-855f-f453c159d47e@t54g2000hsg.googlegroups.com>
<b7ccaf6d-961e-404e-8c30-a10e36f52fb1@b1g2000hsg.googlegroups.com>
<adcef3f2-40d0-4d81-a462-da264853dfef@k37g2000hsf.googlegroups.com>
<Xns9B2ECD5632AE2MDWN@194.177.96.78> <c5bf56af-597a-412f-976e-f82a9a7265e4@d1g2000hsg.googlegroups.com> <Xns9B31BF144518D2MDWN@194.177.96.78>
<d1314eb0-8138-4a4c-8361-f59d15455d25@f77g2000hsf.googlegroups.com>
<Xns9B32E1C6B39D82MDWN@194.177.96.78> <7c5a1a81-f131-4002-b626-1f6b49b28e5a@p58g2000hsb.googlegroups.com> <22bd0d76-981f-4fce-bb3d-da3ac469afc2@r66g2000hsg.googlegroups.com>
NNTP-Posting-Host: Nw0JWf9ElRc3e8jjTrwABQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news1.google.com rec.radio.amateur.homebrew:922

That's great news! You could easily buck regulate the +15 down for a filament supply as well.

I've seen transformers with seperate primary and secondary windings. If a company is building s standard product line with various outputs they'll sometimes do that. Although it usually increases the leakage inductance so that's the down side. Sometimes the output inductor and transformer can be combined.

I hope this goes though. I keep getting error 441 so I sent you an email regarding your last post.

jimmie68@gmail.com wrote in
news:22bd0d76-981f-4fce-bb3d-da3ac469afc2@r66g2000hsg.googlegroups.com:

> This is just way to cool. I took a 500watt Lambmda 15 volt switcher I

```
> had used to power a solidstate amp and wound another secondary on the
> transformer.  I lost  count of the numer of turns, maybe 100, but
> after filtering and rectifying im getting about 450 volts and it has
> been running since about 9:30 AM 3hrs putting out 150mA.
>
> These transformers look a little wierd They seem to be two sepated
> coils fastened together on a frame. It looks like you could take the
> secondary coil off and replace it if you wanted to.
> Grumpy , are you familar with this.
>
> Jimmie
>



From -5648702008669518444
X-Google-Thread: fc2a5,3b4f73404c92d22b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y21g2000hsf.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hellenedyne: a new type of regen-reflex radio
Date: Sun, 12 Oct 2008 05:18:34 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <6fc112f2-646f-41af-9939-c237d3866967@y21g2000hsf.googlegroups.com>
References: <e26d552c-9837-4a9f-aea8-49f4de517652@k16g2000hsf.googlegroups.com>
NNTP-Posting-Host: 76.226.111.240
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1223813914 29786 127.0.0.1 (12 Oct 2008 12:18:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 12 Oct 2008 12:18:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y21g2000hsf.googlegroups.com; posting-host=76.226.111.240;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:923

On Oct 10, 1:15 am, just_r...@yahoo.com wrote:
> hi everyone:
>
> i designed a new type of regen-reflex radio called the Hellenedyne. it
> uses a single triode in cathode follower mode at RF and in grounded
> grid mode at AF. the tube i selected needs only 18 volts of plate. it
> can be used with low-impedance earbuds for good sound. output is high
> compared to an Armstrong regenerator. if you love single tube designs
> you must try this one! explaination and circuit are available at my
```

> website:
>
> http://home.comcast.net/~phils_radio_designs/index.htm
>
> regards,
> phil :)
>
> PS if you wish to contact me feel free to send an e-mail

Hey Dr. Phil

That's interesting, you state somewhere in that linked article that over 70vdc is dangerous. I use throw away 35mm camera photo flash units that run off of a AA cell and drop the voltage down to 75vdc. I like to use the really old 1 and 3 volt directly heated cathode tubes, like the 3v4 and 1u4 or the 1u5 has a diode in it.

My supply only requires 1 battery.

Thanks for the great article. And the great old technology.

73 OM

n8zu

From 7126755002771431210
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 25 Sep 2008 23:36:30 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Thu, 25 Sep 2008 21:36:32 -0700
Message-ID: <o9pod4t90hi97ur42ch3sn52c0iqv0rtiv@4ax.com>
References: <33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com> <lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com> <06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <13eb90fc-8a9f-4ef4-b1f3-68328fb1637a@a1g2000hsb.googlegroups.com> <todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com> <6k29efF5pq3bU1@mid.individual.net> <myTCk.1496$MN3.859@nwrddc01.gnilink.net>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 10
X-Usenet-Provider: http://www.giganews.com

```
X-Trace: sv3-l69mvRgiTkyoL0BGmpprM4mfMXrIe/JiZ0cRHlY86KTyDzO+csWeVr6H7/
j8uO+mz5HH9Yb59jD3oGc!
z8fxNjWNzOPvpn6bf3MkNIQne8V4GR7pwaxQwUQn6EGJhynVNnxbwwLwnJo2mrqEQGAtEfm7
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3274
```

"JB" <nospam@goofball.net> wrote:

>I find it calming and even kind of cool that I can walk around the house and
>follow a QSO in CW

I use wireless headphones when working CW as I find the corded headphones very confining. Also I can hit the sandbox or icebox while the other guy is transmitting.

Wired headphones are (almost) obsolete...

```
From -5074774504861735655
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 26 Sep 2008 00:02:18 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Thu, 25 Sep 2008 22:02:20 -0700
Message-ID: <q5qod4p72h0u10v23a59e1ob6hkte8n7d8@4ax.com>
References: <33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-
ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <13eb90fc-8a9f-4ef4-
b1f3-68328fb1637a@a1g2000hsb.googlegroups.com>
<todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com> <6k29efF5pq3bU1@mid.individual.net>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 14
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
q8Z0KmKvGZInFp8mPGn54xRzOZ4foqk7ErfmdOfdEfOX5TASgwq6P2wRTvJQjCiZIG9n7hPqFkObAAE!
3dA944tFeUxPSt7Yw0SpT7ek99FIuQdh2j9FcpUV4kcl2OfcRBeLssDXQyu4udLGJuABFI+y
X-Complaints-To: abuse@giganews.com
```

X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3275

Bob <biascomms@invalid.inv> wrote:

>CW /certainly/ isn't obsolete!

CW is quite obsolete in the commercial radio world. However I agree CW still can be fun to use in the ham radio hobby.

>I can make QSOs with just a few Watts...

I would agree that CW works better than most other modes under adverse conditions. That's one of the reasons I've been using it for so many years. My HOA required stealth antenna is a very poor radiator, and even though I'm running 50 watts, my ERP is probably just a couple of watts...

From 7198827701373297342
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <97521a8a-60a9-491f-ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com> <lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com> <06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <13eb90fc-8a9f-4ef4-b1f3-68328fb1637a@a1g2000hsb.googlegroups.com> <todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com> <eNSdndRMcrfIIUbVnZ2dnUVZ_oninZ2d@comcast.com> <hd5od4p66d4dcktp4nf11soua1dqo6029k@4ax.com> <PIGdnRn1IPhe10HVnZ2dnUVZ_uqdnZ2d@comcast.com> <vonod49c0ct1brj6q1rkrqujqn257ul180@4ax.com>
Subject: Re: CW is a hobby (off topic BWTH)
Lines: 22
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409

X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <TY7Dk.36$kI6.6@nwrddc01.gnilink.net>
Date: Fri, 26 Sep 2008 16:20:03 GMT
NNTP-Posting-Host: 71.110.226.215
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1222446003 71.110.226.215 (Fri, 26 Sep 2008 12:20:03 EDT)
NNTP-Posting-Date: Fri, 26 Sep 2008 12:20:03 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3277

> >They [B&N] are not a library but a business.
>
> B&N is a very successful business. When they think the 'library'
> chairs are losing them money, the chairs will be removed.
>
> >The chairs and atmosphere are so you can SAMPLE the reading
> >material not spend the day reading.
>
> I *sampled* QST and *bought* another magazine or book. The bottom line
> $$ for B&N was the same or more. Your tears are for the wrong entity.
> B&N made money because I was drawn to their 'free sample' QST
> magazine. QST is the one who lost money, but then that's what voting
> with your wallet is all about...

Perhaps it is your hope that Amateur Radio not be represented or supported?
Perhaps only by the FCC?

I support ARRL because without them we would have been squeezed off the air
a long time ago. The ARRL is full of imperfect people though, and we need
to help out rather than throw monkey wrenches. I don't base my support on
freebies. Germany went fascist for the perks and went to hell over it.

From -7628540097114266974
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
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<todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com> <6k29efF5pq3bU1@mid.individual.net>
<myTCk.1496$MN3.859@nwrddc01.gnilink.net>

<o9pod4t90hi97ur42ch3sn52c0iqv0rtiv@4ax.com>
Subject: Re: CW is a hobby (off topic BWTH)
Lines: 20
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <U78Dk.37$kI6.30@nwrddc01.gnilink.net>
Date: Fri, 26 Sep 2008 16:31:48 GMT
NNTP-Posting-Host: 71.110.226.215
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1222446708 71.110.226.215 (Fri, 26 Sep 2008 12:31:48 EDT)
NNTP-Posting-Date: Fri, 26 Sep 2008 12:31:48 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3278

"AJ Lake" <nomail@fakeaddress.com> wrote in message
news:o9pod4t90hi97ur42ch3sn52c0iqv0rtiv@4ax.com...
> "JB" <nospam@goofball.net> wrote:
>
> >I find it calming and even kind of cool that I can walk around the house and
> >follow a QSO in CW
>
> I use wireless headphones when working CW as I find the corded
> headphones very confining. Also I can hit the sandbox or icebox while
> the other guy is transmitting.
>
> Wired headphones are (almost) obsolete...

I have remote speakers throughout the house. I have a long mic cord that goes anywhere but the kitchen. It occurs to me that a keyed 1kc tone might be the quick answer though. Software can be brought up in a couple of places to control the radio. Wireless mic and key are the next project.

From -4519451279922643395
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew

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References: <33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-
ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
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b1f3-68328fb1637a@a1g2000hsb.googlegroups.com>
<todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com> <6k29efF5pq3bU1@mid.individual.net>
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Subject: Re: CW is a hobby (off topic BWTH)
Lines: 21
MIME-Version: 1.0
Content-Type: text/plain;
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Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <Ja8Dk.39$kI6.9@nwrddc01.gnilink.net>
Date: Fri, 26 Sep 2008 16:34:49 GMT
NNTP-Posting-Host: 71.110.226.215
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1222446889 71.110.226.215 (Fri, 26 Sep 2008 12:34:49
EDT)
NNTP-Posting-Date: Fri, 26 Sep 2008 12:34:49 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3279


"AJ Lake" <nomail@fakeaddress.com> wrote in message
news:q5qod4p72h0u10v23a59e1ob6hkte8n7d8@4ax.com...
> Bob <biascomms@invalid.inv> wrote:
>
> >CW /certainly/ isn't obsolete!
>
> CW is quite obsolete in the commercial radio world. However I agree CW
> still can be fun to use in the ham radio hobby.
>
> >I can make QSOs with just a few Watts...
>
> I would agree that CW works better than most other modes under adverse
> conditions. That's one of the reasons I've been using it for so many
> years. My HOA required stealth antenna is a very poor radiator, and
> even though I'm running 50 watts, my ERP is probably just a couple of
> watts...

Actually,  a lot of third world countries still use CW for distress calls,
but who wants to get pulled off course to rescue a bunch of boat people?



From -6911065213590787045
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 26 Sep 2008 11:49:07 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Fri, 26 Sep 2008 09:49:09 -0700
Message-ID: <la4qd45k3vl0tjh7fgmd9g2k6n6b7rm6d0@4ax.com>
References: <c5661e9b-a347-4b33-bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
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X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 7
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X-Trace: sv3-
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yIxQIqF1TlTSJT4X/tNkVHzj9Z3272dJgnq1OhXcFEh/nZMoED75oJJQaVbPJRSg0bzKUmsz
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3280

"JB" <nospam@goofball.net> wrote:

>Perhaps it is your hope that Amateur Radio not be represented or supported?

ARRL is just one ham organization that tries to influence the FCC.
There are others. I'm sure that they would be happy to step in should
my personal boycott of ARRL become successful...

From -3309295811431142248
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 26 Sep 2008 11:49:08 -0500
From: AJ Lake <nomail@fakeaddress.com>

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Fri, 26 Sep 2008 09:49:09 -0700
Message-ID: <5d4qd4dj23r93po7089jjd7fg487r2094j@4ax.com>
References: <97521a8a-60a9-491f-ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
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<q5qod4p72h0u10v23a59e1ob6hkte8n7d8@4ax.com> <Ja8Dk.39$kI6.9@nwrddc01.gnilink.net>
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Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 5
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X-Trace: sv3-Uu6hOaR2HeyQQW5FHcDj3cLOvUmLofDV5sTbHtAXtVUOsRjYTF/dC5XigMAU8SxPcEocJiq3MfcSKfK!GdNnMUoWJDfDu1zxo/AG0P/4rkkK0qow00NXpmht35K7dGVJpkhe+giMb4zB5k03H9a8NKJ4
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3281

"JB" <nospam@goofball.net> wrote:

>a lot of third world countries still use CW for distress calls,

Some 3rd world countries also still use animals for plowing.

From -4240772304422526788
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <c5661e9b-a347-4b33-bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
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Subject: Re: CW is a hobby (off topic BWTH)
Lines: 16
MIME-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <W49Dk.89$kI6.49@nwrddc01.gnilink.net>
Date: Fri, 26 Sep 2008 17:36:54 GMT
NNTP-Posting-Host: 71.110.226.215
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1222450614 71.110.226.215 (Fri, 26 Sep 2008 13:36:54
EDT)
NNTP-Posting-Date: Fri, 26 Sep 2008 13:36:54 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3282


"AJ Lake" <nomail@fakeaddress.com> wrote in message
news:la4qd45k3vl0tjh7fgmd9g2k6n6b7rm6d0@4ax.com...
> "JB" <nospam@goofball.net> wrote:
>
> >Perhaps it is your hope that Amateur Radio not be represented or
supported?
>
> ARRL is just one ham organization that tries to influence the FCC.
> There are others. I'm sure that they would be happy to step in should
> my personal boycott of ARRL become successful...

I'm sure there are plenty of organizations besides ham radio that would be
happy to step into the power vacuum.  Look at Iraq.  I'm sure ARRL is not
nearly as bad as Sadaam to warrant a scorched earth solution.



From -7764631492287497878
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cycny01.gnilink.net!
cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!
nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <97521a8a-60a9-491f-ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
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<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <13eb90fc-8a9f-4ef4-b1f3-68328fb1637a@a1g2000hsb.googlegroups.com>
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Subject: Re: CW is a hobby (off topic BWTH)
Lines: 17
MIME-Version: 1.0
Content-Type: text/plain;
    charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <Ye9Dk.93$kI6.9@nwrddc01.gnilink.net>
Date: Fri, 26 Sep 2008 17:47:36 GMT
NNTP-Posting-Host: 71.110.226.215
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1222451256 71.110.226.215 (Fri, 26 Sep 2008 13:47:36 EDT)
NNTP-Posting-Date: Fri, 26 Sep 2008 13:47:36 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3283

> >a lot of third world countries still use CW for distress calls,
>
> Some 3rd world countries also still use animals for plowing.

Some people in this country actually buy what these people produce.

And some people in this country put jewelry in their noses, lips, ears and other odd places.

Others go out and buy cell phone/TVs and pay $200+ a month for their communications.

Some people build model airplanes from WW2 or do needlepoint or collect antiques as a hobby.

We could write a book full of this stuff.

From 7932560927346431265
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 26 Sep 2008 13:02:30 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Re: CW is a hobby (off topic BWTH)
Date: Fri, 26 Sep 2008 11:02:31 -0700
Message-ID: <er8qd41hu3jp1la5uintpaqlpnr3is1pb8@4ax.com>
References: <lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <13eb90fc-8a9f-4ef4-
b1f3-68328fb1637a@a1g2000hsb.googlegroups.com>
<todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com> <6k29efF5pq3bU1@mid.individual.net>
<q5qod4p72h0u10v23a59e1ob6hkte8n7d8@4ax.com> <Ja8Dk.39$kI6.9@nwrddc01.gnilink.net>
<5d4qd4dj23r93po7089jjd7fg487r2094j@4ax.com> <Ye9Dk.93$kI6.9@nwrddc01.gnilink.net>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 5
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-yIsrzghgDJFkbBl3PdOSq5r/
DjoVdbOULjrRvdtfS5wqrW8uKl4kUwpRrBLrPA9pKaNCHsqGJFVcxQZ!f//YTdDBM+hySWyTh1rDBVI/
1y5VoJlN2Tb0M+FF1H/NHx7Dio0NnDAMNK06tEulOjMvtLS0
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3284

"JB" <nospam@goofball.net> wrote:

>We could write a book full of this stuff.

I think we already have.


From -9018369422075473198
X-Google-Thread: fc2a5,ed200c69096e3c67
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe04.iad.POSTED!7564ea0f!not-for-mail
From: Dave Foreman <davelf11@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Needed: Cinch 10 pin female socket
Message-ID: <lafqd4103793aqqfnoe84ljmfdgoikfp2k@4ax.com>
References: <74248669-09f1-44e4-b897-ffd775929454@z66g2000hsc.googlegroups.com>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 39
NNTP-Posting-Host: 24.251.142.110
X-Complaints-To: newsmaster@cox.net
```

X-Trace: newsfe04.iad 1222458832 24.251.142.110 (Fri, 26 Sep 2008 19:53:52 UTC)
NNTP-Posting-Date: Fri, 26 Sep 2008 19:53:52 UTC
Organization: Cox
Date: Fri, 26 Sep 2008 12:53:52 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:834

On Sat, 20 Sep 2008 19:49:49 -0700 (PDT), wa2rqy <rlucch2098@aol.com> wrote:

>For my power supply which feeds my Gonset G-76.
>Appears that the last owner either removed the plastic pin retainer or
>it fell out.
>Now, there is nothing to support these female pins from wobbling
>around & connector from falling off with poor connections to boot.
>
>The Cinch/Jones model number is S-310-CCT-K
>Any help will be apprechiated in getting this rig back on the air.
>
>Need NOT be new.
>Regard/73.....
>Rich WA2RQY

Rich
Try this company.
I have purchased some Cinch/Jones items from them in the past.
Dave

Elliot Electronic Supply
Company Overview
Diodes, Sealed Lead Acid Batteries, Cases, Chemicals, Radio Frequency (RF) Connectors, Fuses, Integrated Circuits (IC), Alternating Current (AC) Power Supplies, Direct Current (DC) Power Supplies, Power Supplies, Relays, Latching Relays, Discrete Semiconductors, Transistors, Plug In Transformers available from Elliot Electronic Supply based in Tucson, AZ. Click the links below to visit our website or contact us via our profile page.

Contact Details
Elliot Electronic Supply
Address: 1251 S Tyndall Avenue, Tucson, Arizona (AZ), 85713, USA
Tel: work 520 884 7394
Fax: fax 520 884 7398

From 6121338801360531122
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!b1g2000hsg.googlegroups.com!not-for-mail

```
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Fri, 26 Sep 2008 13:51:17 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <d998a170-7b00-45e5-a1d6-7d50bae1b351@b1g2000hsg.googlegroups.com>
References: <25935aba-66a1-42fe-bb11-cd29672917cd@x35g2000hsb.googlegroups.com>
     <33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-
ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
     <lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
     <06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <MtFBk.650$8v5.418@trnddc01>
     <a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com>
<KyQBk.553$Jw.18@nwrddc02.gnilink.net>
     <p5pfd4lu68ktebb75e1aot4ltv2osci2di@4ax.com>
NNTP-Posting-Host: 207.101.100.154
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1222462277 20049 127.0.0.1 (26 Sep 2008 20:51:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Sep 2008 20:51:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b1g2000hsg.googlegroups.com; posting-host=207.101.100.154;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3286
```

On Sep 22, 2:36=A0pm, AJ Lake <nom...@fakeaddress.com> wrote:
> "JB" <nos...@goofball.net> wrote:
> >having the patience to learn a skill will in fact tend to protect a valu=
able
> >resource from degradation by being flooded with impulsive personalities.
>
> The old having to learn the code will keep the whacko's out just
> doesn't stand up. The biggest offenders on the SSB 75M mess are code
> tested Extras...

But what mode are the using when they offend on 75 meters? It's not
Morse Code.

73 de Jim, N2EY

```
From -7547989998270831695
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!l64g2000hse.googlegroups.com!not-for-
mail
```

```
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Fri, 26 Sep 2008 14:06:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 81
Message-ID: <4e450828-7c55-49ba-9900-57d8df7df6e3@l64g2000hse.googlegroups.com>
References: <06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com>
<MtFBk.650$8v5.418@trnddc01>
     <a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com>
<KyQBk.553$Jw.18@nwrddc02.gnilink.net>
     <p5pfd4lu68ktebb75e1aot4ltv2osci2di@4ax.com>
<R5VBk.727$MN3.244@nwrddc01.gnilink.net>
     <k4cgd4d5mdbihnf0k3agvkovegpp77sa7h@4ax.com>
<ddZBk.828$MN3.308@nwrddc01.gnilink.net>
     <utpgd4l53kl4gqfn99jh9cj41jm1eck7b9@4ax.com> <47664bc1-
cd38-4f89-87eb-6f4c8cad87be@s50g2000hsb.googlegroups.com>
     <vllld45sr8bo8rui8f2ur8967p2tpemd9h@4ax.com>
NNTP-Posting-Host: 207.101.100.154
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1222463200 23125 127.0.0.1 (26 Sep 2008 21:06:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Sep 2008 21:06:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l64g2000hse.googlegroups.com; posting-host=207.101.100.154;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3287
```

On Sep 24, 9:00=A0pm, AJ Lake <nom...@fakeaddress.com> wrote:

> N...@aol.com wrote:
> >A weeder test can be relevant.
>
> The trouble seems to be that we have different ideas of what a "weeder
> test" means. I could find no specific definition in any reference
> material, so I'll just no longer use the phrase.
>
> Simply put, there is no reason for a code test in the modern world.

Yes, there is. In ham radio, anyway.

The reason is this:

A license test for an amateur radio operator license should test
things hams actually do on the air.
Hams use Morse Code on the air in 2008.

> If
> someone wants to use CW he simply learns it or fires up his computer.

That same logic can be applied to anything in the written test too, so why have a written test?

> There once were valid reasons to learn the code, but they haven't
> existed for decades.

Some reasons have gone away. Not all. And it hasn't been "decades", either.

> That the code test survived so long was simply ham politics.

Not really. The treaty wasn't written by hams.

> >By testing, we make people prove they actually learned a few things...
>
> When an 8 year old child can pass the Extra exam, I think you can
> safely say that it can be passed without *knowing* the electronics
> theory that it pretends to test for.

How do you know for sure that the 8-year-old didn't know the material on the test?

Bit of history:

Way back in 1948, the old Class B exam was passed on the first try by Jane Bieberman, W3OVV (sk), at the Philadelphia FCC office. She was 9 years old at the time.

In those days, the Class B exams were:

13 wpm Morse Code receiving, minimum 1 minute solid legible copy out of 5 minutes
13 wpm Morse Code sending with a straight key
50 question written exam that included:
- essay questions
- draw-a-diagram (schematic and block) questions
- show-your-work calculation questions
- multiple-choice questions

No published question-and-answer pools. No partial credit. No CSCEs. No Bash books.

Now maybe W3OVV didn't understand every subtlety of every question, but she did well enough to satisfy the FCC examiner.

> >But having observed what happens when people
> >are trusted to learn on their own, (cb as one example),
>
> Darn, if only they had started out with a CB code test
> =A0all would be well now...

Yes, it probably would be.

Do you think amateur radio should be more like CB? One license class, no tests, everybody the same, people trusted to learn what they are interested in and not have to learn stuff...

Yeah, that's been shown to work really well in radio.

73 de Jim, N2EY

```
From 773053226676641806
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!73g2000hsx.googlegroups.com!not-for-
mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Fri, 26 Sep 2008 14:09:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <2dfaeb4a-4c69-47a5-80fa-6b24302b12e1@73g2000hsx.googlegroups.com>
References: <c5661e9b-a347-4b33-bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
     <06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <13eb90fc-8a9f-4ef4-
b1f3-68328fb1637a@a1g2000hsb.googlegroups.com>
     <todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com>
<eNSdndRMcrfIIUbVnZ2dnUVZ_oninZ2d@comcast.com>
     <hd5od4p66d4dcktp4nf11soua1dqo6029k@4ax.com>
<PIGdnRn1IPhe10HVnZ2dnUVZ_uqdnZ2d@comcast.com>
     <vonod49c0ct1brj6q1rkrqujqn257ul180@4ax.com>
<TY7Dk.36$kI6.6@nwrddc01.gnilink.net>
     <la4qd45k3vl0tjh7fgmd9g2k6n6b7rm6d0@4ax.com>
NNTP-Posting-Host: 207.101.100.154
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1222463394 23604 127.0.0.1 (26 Sep 2008 21:09:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Sep 2008 21:09:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 73g2000hsx.googlegroups.com; posting-host=207.101.100.154;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3288
```

On Sep 26, 12:49=A0pm, AJ Lake <nom...@fakeaddress.com> wrote:

```
> "JB" <nos...@goofball.net> wrote:
> >Perhaps it is your hope that Amateur Radio not be represented or support=
ed?
>
```

> ARRL is just one ham organization that tries to influence the FCC.

It's the biggest and oldest one in the USA.

> There are others.

Such as?

> I'm sure that they would be happy to step in should
> my personal boycott of ARRL become successful...

I don't think so. Without ARRL there'd soon be no amateur radio. Not as we know it, anyway.

What would happen is that there would be a little change here and a little change there until there was essentially nothing left.

73 de Jim, N2EY

```
From 6751576578797145568
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 26 Sep 2008 17:10:41 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Fri, 26 Sep 2008 15:10:43 -0700
Message-ID: <o0mqd411c2hdpsgvgpc59lmj9cr6urp7jo@4ax.com>
References: <97521a8a-60a9-491f-ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <MtFBk.650$8v5.418@trnddc01>
<a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com>
<KyQBk.553$Jw.18@nwrddc02.gnilink.net>
<p5pfd4lu68ktebb75e1aot4ltv2osci2di@4ax.com> <d998a170-7b00-45e5-
a1d6-7d50bae1b351@b1g2000hsg.googlegroups.com>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 21
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
OuXIYwt5epgLixitZKSr15Tf9n3aoPIEpRtMtvDLldkFPcZrxxFJGFy5OqLvCDyrQDnwQqJknfxRdLg!
vY9s0b6x0nxiRUxeOY4WHO4XsFDkjo4jS8KTYrwtAS1Lb13b2mXu27oJIOHPEUVX8ptk5PBT
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
```

X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:838

N2EY@aol.com wrote:

>But what mode are the using when they offend on 75 meters?
>It's not Morse Code.

The code test didn't keep the whackos out of the hobby. If that were
true there would be no code-tested offenders on *any* mode.

>maybe W3OVV [9 years old] didn't understand every subtlety
>of every question, but she did well enough to satisfy the FCC examiner.

You could pass the exam without knowing the material even back then.
The current Bash like study materials make it lots easier now though.

>Without ARRL there'd soon be no amateur radio.

Lots of other countries still have amateur radio. No ARRL there...

>Not as we know it, anyway.

That might be a good thing.

From 1844783869758984192
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.posted.cpinternet!news.posted.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 26 Sep 2008 17:24:50 -0500
Date: Fri, 26 Sep 2008 17:25:08 -0500
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
References: <97521a8a-60a9-491f-ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com> <lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com> <06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <13eb90fc-8a9f-4ef4-b1f3-68328fb1637a@a1g2000hsb.googlegroups.com> <todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com> <6k29efF5pq3bU1@mid.individual.net> <q5qod4p72h0u10v23a59e1ob6hkte8n7d8@4ax.com> <Ja8Dk.39$kI6.9@nwrddc01.gnilink.net> <5d4qd4dj23r93po7089jjd7fg487r2094j@4ax.com>
In-Reply-To: <5d4qd4dj23r93po7089jjd7fg487r2094j@4ax.com>

```
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <MaidnS7riuqv_EDVnZ2dnUVZ_s_inZ2d@posted.cpinternet>
Lines: 14
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-
sgR+X7aASVaBghYqChrnao7MtUlCBU+loPdTvMZ7HPMZt63l1vmJ4DsCW+8ZeTCaNnTmaAEQFZRpojN!
JblXXjrBrOQ/kZifU9olhj7BCe0gODDNTgptHKp7Uu8nuUQIZvhBsK6ua5mKTNktSjaQCxXdaSHD!
NpgixXH1jAOu0QDKDN3+9Q==
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:839

AJ Lake wrote:

> "JB" <nospam@goofball.net> wrote:
>
>
>>a lot of third world countries still use CW for distress calls,
>
>
> Some 3rd world countries also still use animals for plowing.

Perhaps that includes the USA?  There is a robust draft-horse farming
movement here in Minnesota.

Michael


From -2954610203105597371
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Sat, 27 Sep 2008 00:36:54 +0100
Organization: Bias Comms
Lines: 9
Message-ID: <6k5a0hF66k9uU1@mid.individual.net>
References: <97521a8a-60a9-491f-ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <13eb90fc-8a9f-4ef4-
b1f3-68328fb1637a@a1g2000hsb.googlegroups.com>
<todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com> <6k29efF5pq3bU1@mid.individual.net>
```

```
<q5qod4p72h0u10v23a59e1ob6hkte8n7d8@4ax.com> <Ja8Dk.39$kI6.9@nwrddc01.gnilink.net>
<5d4qd4dj23r93po7089jjd7fg487r2094j@4ax.com>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net KjUPG0UfynohvX9dSxGmCggEElQOy/a0dNycqES5DIJ/U1SqeG
Cancel-Lock: sha1:Q/vjTpcZBxWc10Wtxaos3jhuBhA=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:840

AJ Lake wrote:

> "JB" <nospam@goofball.net> wrote:
>
>>a lot of third world countries still use CW for distress calls,
>
> Some 3rd world countries also still use animals for plowing.

Some "third world" countries can't spell /ploughing/ :)



From -4349140358398388716
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 26 Sep 2008 20:22:11 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Fri, 26 Sep 2008 18:22:12 -0700
Message-ID: <jg2rd4lbbdah7e4ds363ie5jiajte8nkug@4ax.com>
References: <lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <13eb90fc-8a9f-4ef4-
b1f3-68328fb1637a@a1g2000hsb.googlegroups.com>
<todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com> <6k29efF5pq3bU1@mid.individual.net>
<q5qod4p72h0u10v23a59e1ob6hkte8n7d8@4ax.com> <Ja8Dk.39$kI6.9@nwrddc01.gnilink.net>
<5d4qd4dj23r93po7089jjd7fg487r2094j@4ax.com> <6k5a0hF66k9uU1@mid.individual.net>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 5
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Jd9FRaGS27T5wmYMkP0jgzq9zcRSQvfW6HrnA8Ew2NqrJuyXE978m/
ractMMrUqpqHdVZUnfsA+vwNt!HOU48iCCBCQPR4OJp/
G6vf0r1Y4kNwqFovzSzEH4bRwbPd9+oy5MR4wrXFGrGk+78JR+QMZW
X-Complaints-To: abuse@giganews.com
```

X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:841

Bob <biascomms@invalid.inv> wrote:

>Some "third world" countries can't spell /ploughing/ :)

When the Brits were kicked out 'pluffing' was outlawed... ;-)

From -8726175662558629702
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 26 Sep 2008 21:50:47 -0500
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <c5661e9b-a347-4b33-bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com> <06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <13eb90fc-8a9f-4ef4-b1f3-68328fb1637a@a1g2000hsb.googlegroups.com> <todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com> <eNSdndRMcrfIIUbVnZ2dnUVZ_oninZ2d@comcast.com> <hd5od4p66d4dcktp4nf11soua1dqo6029k@4ax.com> <PIGdnRn1IPhe10HVnZ2dnUVZ_uqdnZ2d@comcast.com> <vonod49c0ct1brj6q1rkrqujqn257ul180@4ax.com> <TY7Dk.36$kI6.6@nwrddc01.gnilink.net> <la4qd45k3vl0tjh7fgmd9g2k6n6b7rm6d0@4ax.com>
Subject: Re: CW is a hobby (off topic BWTH)
Date: Fri, 26 Sep 2008 22:50:34 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <T6mdnWqsEc0aAkDVnZ2dnUVZ_t7inZ2d@comcast.com>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 98.243.145.110
X-Trace: sv3-EiR6IaU7wSkEXuaTeHMZ4sTcBNo9jDLDdlem28t7jS74j0R1DyvhK1M6d+iBi6k9/36pKUdspDQokgD!/ZbQxF1MiEXcKoVjjw7spbUcYwUKnjdKppIaWBJ7h72ZZDOwYC1+BkVRGHkRAO2Vcy22SxZH99+F!FFilV9MukDSpNJxPPaEmv0MXyh/3kuU=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly

X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:842

"AJ Lake" <nomail@fakeaddress.com> wrote in message
news:la4qd45k3vl0tjh7fgmd9g2k6n6b7rm6d0@4ax.com...
> "JB" <nospam@goofball.net> wrote:
>
>>Perhaps it is your hope that Amateur Radio not be represented or
>>supported?
>
> ARRL is just one ham organization that tries to influence the FCC.
> There are others. I'm sure that they would be happy to step in should
> my personal boycott of ARRL become successful...

Why haven't they already stepped and displaced the ARRL then. They should
already be working to take their place so that more people will boycott the
ARRL.

Perhaps because they simply can't handle more than a single issue at a time
(NCI comes to mind).

From -3859050751367600691
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!25g2000hsx.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Fri, 26 Sep 2008 19:56:43 -0700 (PDT)
Organization: http://groups.google.com
Lines: 25
Message-ID: <f60045d7-f5a2-4dbe-a850-596e739387c8@25g2000hsx.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
     <68d71c04-d7f5-4708-a719-624679f150b6@25g2000hsx.googlegroups.com>
     <yNydnVrnzd1sDlPVnZ2dnUVZ8j2dnZ2d@pipex.net> <18216228-3c5a-4cf2-ac38-ea577aff8f6d@a70g2000hsh.googlegroups.com>
     <48cea46f$1_4@mk-nntp-2.news.uk.tiscali.com>
<Xns9B1AC2F4DC19E2MDWN@194.177.96.78>
     <5b80758c-9cd7-4421-8ebf-8be8e4152e2e@m44g2000hsc.googlegroups.com>
     <Xns9B1BC3E20812MDWN@194.177.96.78> <15df1803-fd58-45cc-9d37-c7fa86fdb81d@x35g2000hsb.googlegroups.com>
     <Xns9B1CC132340012MDWN@194.177.96.78> <12ccce41-e9ea-4526-b293-49d9beb9349f@z66g2000hsc.googlegroups.com>
     <Xns9B1DCAF1753AB2MDWN@194.177.96.78> <8e344554-a8d0-4796-ae20-3739a2f7f5ea@z72g2000hsb.googlegroups.com>
     <Xns9B1E6F88991582MDWN@194.177.96.78> <a5ec78f3-d683-4228-908d-88c91506bb75@y38g2000hsy.googlegroups.com>

NNTP-Posting-Host: 76.226.117.218
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1222484203 23792 127.0.0.1 (27 Sep 2008 02:56:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Sep 2008 02:56:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 25g2000hsx.googlegroups.com; posting-host=76.226.117.218;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.17)
Gecko/20080829 Firefox/2.0.0.17,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:843

I think I get it. Would this explain why in a push-pull topology after the transistors have been replaced a couple of times the power supply just keeps failing for no apparent reason?

Are you saying that in other topologies it doesnt saturate or that it doesnt matter if it does?

Ordered Abe's book.

Jimmie

Well I remember repairing Sony TV push pull SMPS I made a living from replacing many a blown PP pair. Sony then went to PP pair in a single package. That reduced the business for me but I had much experience repairing them already. Trick with the Sony push pull was 2% timing components. The PP had to be within 2% of 50% duty cycle. They used a self starting multi vibrator design. After replacing the blown parts I'd power the input up at 20vac and use a 12vdc supply for the start up circuit, Then check the waveform on a scope to make sure it was with 2% fo 50% duty cycle. There was no dead time in the Sony's. They just varied the frequency to regulate the voltage.

73

n8zu

From -7061083044064062817
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 26 Sep 2008 22:59:07 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)

Date: Fri, 26 Sep 2008 20:59:07 -0700
Message-ID: <elard45g31mnb40niuasmjah3gklce1369@4ax.com>
References: <06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <13eb90fc-8a9f-4ef4-b1f3-68328fb1637a@a1g2000hsb.googlegroups.com>
<todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com>
<eNSdndRMcrfIIUbVnZ2dnUVZ_oninZ2d@comcast.com>
<hd5od4p66d4dcktp4nf11soua1dqo6029k@4ax.com>
<PIGdnRn1IPhe10HVnZ2dnUVZ_uqdnZ2d@comcast.com>
<vonod49c0ct1brj6q1rkrqujqn257ul180@4ax.com> <TY7Dk.36$kI6.6@nwrddc01.gnilink.net>
<la4qd45k3vl0tjh7fgmd9g2k6n6b7rm6d0@4ax.com>
<T6mdnWqsEc0aAkDVnZ2dnUVZ_t7inZ2d@comcast.com>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 13
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-g4J2Oeu0J+RPo19D+HelxlBriWfH/
D7zl7H0dmc7ACANrZn0EZ38KmOx5z6MDrKEKbXAbo81+iqh7H5!
vYxGYugU90xsNWyZSZLqSLAkTwUYsLQ3vPyBKmDecUU132AoWaMQ8lszHhFlUeASTPayulEp
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:844

"Dee Flint" <deeflint01@comcast.net> wrote:

>Why haven't they already stepped and displaced the ARRL then.

I don't know of any ham organization that wants kill the ARRL. My
supposition is that if there had been no ARRL, another group or groups
would have been lobbying in it's place.

>They should already be working to take their place so that
> more people will boycott the ARRL.

Let me try one more time (3rd try). My boycott is purely a *personal*
one to make *me* feel better. I really am not trying to get converts.

From -3293579314158482863
X-Google-Thread: fc2a5,ed200c69096e3c67
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k13g2000hse.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Needed: Cinch 10 pin female socket
Date: Sat, 27 Sep 2008 02:50:43 -0700 (PDT)

Organization: http://groups.google.com
Lines: 21
Message-ID: <e96ace37-94b4-487b-8d98-10b433add996@k13g2000hse.googlegroups.com>
References: <74248669-09f1-44e4-b897-ffd775929454@z66g2000hsc.googlegroups.com>
<lafqd4103793aqqfnoe84ljmfdgoikfp2k@4ax.com>
NNTP-Posting-Host: 76.226.117.218
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1222509043 2564 127.0.0.1 (27 Sep 2008 09:50:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Sep 2008 09:50:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k13g2000hse.googlegroups.com; posting-host=76.226.117.218;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:845

I used to make a living selling Cinch connectors.
That part number is for a 10 pin female so any
Cinch number that begins with S-310 can be used
the suffix letters indicate the mount or shell style.
The numbers I remember off the top of my head:

S-310-AB
S-310-SB
S-310-CCE

The SB and AB are chassis mount the rivets can
be taken out and then the socket can be used in
a CCT or CCE style.

the S-310-CCT-K is a locking shell style. With
little clips on the sides to lock the socket in
place to it won't come out.

73 OM

n8zu

From 4719977241392470045
X-Google-Thread: 10c2ee,d01f3c86d4b73fd
X-Google-Thread: fc2a5,d01f3c86d4b73fd
X-Google-Thread: 1131b0,d01f3c86d4b73fd
X-Google-Attributes: gid10c2ee,gidfc2a5,gid1131b0,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!e53g2000hsa.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups:

```
rec.antiques.radio+phono,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Mallory date code ?
Date: Sat, 27 Sep 2008 03:03:37 -0700 (PDT)
Organization: http://groups.google.com
Lines: 63
Message-ID: <e4e550c1-cf77-4287-9619-59301b793d8d@e53g2000hsa.googlegroups.com>
References: <xbUBk.1988$eb4.1400@flpi147.ffdc.sbc.com>
<jrmgd49pfv6aeolpo4ruv4sunfcqjbts7e@4ax.com>
     <G8-dnT6szvI68UTVnZ2dnUVZ_tTinZ2d@insightbb.com>
<4psjd4lt019nlqvcu9qo9kc93lkdkn3fmn@4ax.com>
     <gbd7k6$7ec$2@aioe.org>
<byrnsj-3C12B8.07313424092008@newsclstr03.news.prodigy.net>
     <gbdkji$v4m$1@aioe.org> <byrnsj-
E46889.11483324092008@newsclstr03.news.prodigy.net>
     <gbe6sp$b4i$1@aioe.org>
NNTP-Posting-Host: 76.226.117.218
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1222509818 4882 127.0.0.1 (27 Sep 2008 10:03:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Sep 2008 10:03:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e53g2000hsa.googlegroups.com; posting-host=76.226.117.218;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.antiques.radio+phono:7062
rec.radio.amateur.homebrew:846 sci.electronics.repair:6807

On Sep 24, 4:11=A0pm, Syl <s...@someplace.com> wrote:
> John Byrns a crit :
>
>
>
>
>
> > In article <gbdkji$v4...@aioe.org>, Syl <s...@someplace.com> wrote:
>
> >> John Byrns wrote:
> >>> In article <gbd7k6$7e...@aioe.org>, Syl <s...@someplace.com> wrote:
>
> >>>> Franc Zabkar a crit :
> >>>>> On Tue, 23 Sep 2008 18:24:47 -0400, "hifi-tek"
> >>>>> <t.hoeh...@insightbb.com> put finger to keyboard and composed:
>
> >>>>>>> I'd say that 8112 is a YYWW date code.
> >>>>>> It is a YYMM date code.
> >>>>> Then how do you account for the "32" in "235-8532K"?
> >>>> It IS YYWW (that is year and week)
> >>>> so....235-8532 means 1985, 32nd week. That is why the K is there...
> >>> I agree that it is YYWW, but I don't understand what you are saying t=
he
> >>> reason
> >>> is that the "K" is there? =A0Why is the "K" there?
> >> weeK, to avoid any possible confusion to the date format used.
>
> > That's where I figured you were headed with the "K", but typically the =
YYWW date
> > code, as used on semiconductors for example, is used without a format i=
ndicator,
> > in fact IIRC some versions of the YYWW date code scramble the digits in=
 one way
> > or another to obscure their meaning.
>
> > I wonder if the "K" might not have another meaning, such as a code to i=
ndicate
> > which of several factories the device was produced in? =A0If that is th=
e case, the
> > fact that "K" is the last letter in "week" might just be a coincidence.
>
> Could well be but so far only found K and was told so.
>
> I was also told the first 3 digits where the factory ID,
> can anyone confirm this?
>
> Q: to OP. What country of origin is the cap from?
> Could it be a code for country of origin? Like Canada, US...
>
> Syl- Hide quoted text -
>
> - Show quoted text -

I used to make a living selling P.R. Mallory
the 3 digit code is the manufacturer, 274
is/was RCA.  And 235 is/was Mallory.
Ole P.R Mallory used to snap up companies
like RMC and Duracell. When he retired they
started selling off all those companies.

73 OM

n8zu


From 1610457970901359018
X-Google-Thread: fc2a5,13cc1e4ccd1d72ec,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m36g2000hse.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Lambda power supply schematic
Date: Sat, 27 Sep 2008 06:49:40 -0700 (PDT)
```

```
Organization: http://groups.google.com
Lines: 7
Message-ID: <f2908146-ebf8-4ec4-9bdc-7214599d2c8f@m36g2000hse.googlegroups.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1222523381 13371 127.0.0.1 (27 Sep 2008 13:49:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Sep 2008 13:49:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m36g2000hse.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:847

I am looking for schematic/ manual for a Lambda LYS-P-15 power
suppply. I bought a couple of these at a hamfest a few years ago and
as I remember they worked before they got put away in storage but dont
now.
Any help would be greatly appreciated.

Jimmie



From 267913269596443967
X-Google-Thread: fc2a5,decd2bb42c77b8b0,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!b38g2000prf.googlegroups.com!not-for-
mail
From: anuu <anujbatta2012@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Money makes everyone healthy
Date: Sat, 27 Sep 2008 09:57:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 6
Message-ID: <ed3fcff8-5464-4272-856a-837f5fda2bfc@b38g2000prf.googlegroups.com>
NNTP-Posting-Host: 117.195.98.171
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1222534665 15887 127.0.0.1 (27 Sep 2008 16:57:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Sep 2008 16:57:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b38g2000prf.googlegroups.com; posting-host=117.195.98.171;
     posting-account=P6WxvwoAAACi7L5z7Pso82IRPz5hEP17
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1) ; .NET CLR
     1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:848
```

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For more information Please Visit:

http://www.365jobs4u.com/idevaffiliate/pages/2137.php

```
From -7108833579180243647
X-Google-Thread: 10c2ee,d01f3c86d4b73fd
X-Google-Thread: fc2a5,d01f3c86d4b73fd
X-Google-Thread: 1131b0,d01f3c86d4b73fd
X-Google-Attributes: gid10c2ee,gidfc2a5,gid1131b0,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 27 Sep 2008 12:26:51 -0500
Date: Sat, 27 Sep 2008 13:26:51 -0400
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Organization: http://home.earthlink.net/~mike.terrell/index.html
X-Mailer: Mozilla 4.76 [en]C-CCK-MCD   (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Mallory date code ?
References: <xbUBk.1988$eb4.1400@flpi147.ffdc.sbc.com>
<jrmgd49pfv6aeolpo4ruv4sunfcqjbts7e@4ax.com>
          <G8-dnT6szvI68UTVnZ2dnUVZ_tTinZ2d@insightbb.com>
<4psjd4lt019nlqvcu9qo9kc93lkdkn3fmn@4ax.com>
          <gbd7k6$7ec$2@aioe.org>
<byrnsj-3C12B8.07313424092008@newsclstr03.news.prodigy.net>
          <gbdkji$v4m$1@aioe.org> <byrnsj-
E46889.11483324092008@newsclstr03.news.prodigy.net>
          <gbe6sp$b4i$1@aioe.org> <e4e550c1-
cf77-4287-9619-59301b793d8d@e53g2000hsa.googlegroups.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-NewsProxy: 1.2.4
Message-ID: <vcydnYdszppG8UPVnZ2dnUVZ_sWdnZ2d@earthlink.com>
Lines: 27
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.110.34.161
X-Trace: sv3-Ff5NRaNMwG3ILVcgL3LUqwIf2qlqMCmxSCjZ81VWMhSKta4ikqc8Q3V3tGzdz4Ys2s/
gtNDYu83MVqQ!
fwLxbfKgAwTkvGbBv6sOgIZ8dv8lo86KWlYsLlvJLjGCIMVA0E4FA1APge1z86WPbl9hvnKKuD9S!
EuBe22yF8a1IApzKN/e/9uSm7e/mBDE/j2bZlxc=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

```
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.antiques.radio+phono:7086
rec.radio.amateur.homebrew:849 sci.electronics.repair:6815


raypsi wrote:
>
> I used to make a living selling P.R. Mallory
> the 3 digit code is the manufacturer, 274
> is/was RCA.  And 235 is/was Mallory.
> Ole P.R Mallory used to snap up companies
> like RMC and Duracell. When he retired they
> started selling off all those companies.


   Now, Mallory (Capacitors) is owned by Cornell Dubiler.


--
http://improve-usenet.org/index.html

aioe.org, Goggle Groups, and Web TV users must request to be white
listed, or I will not see your messages.

If you have broadband, your ISP may have a NNTP news server included in
your account: http://www.usenettools.net/ISP.htm


There are two kinds of people on this earth:
The crazy, and the insane.
The first sign of insanity is denying that you're crazy.


From -3275040552745862182
X-Google-Thread: fc2a5,1a70b767cd70bc46
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!npeer02.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews8.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
<LZiAk.29033$IB6.9166@bignews8.bellsouth.net> <6je7b6F2rhscU1@mid.individual.net>
<RTDAk.37908$vX2.17185@bignews6.bellsouth.net> <6jh2ueF3ab47U3@mid.individual.net>
<KTUAk.36335$Ep1.21799@bignews2.bellsouth.net>
<gLVAk.13934$wr1.13385@newsfe02.iad> <6jni6rF45o2qU1@mid.individual.net>
<6d2d9390-6da0-4ef7-99c3-56c7b345c223@f36g2000hsa.googlegroups.com>
```

```
<6jp12hF4bnapU1@mid.individual.net> <4eKBk.18738$Dj1.12594@newsfe01.iad>
<6jpcm0F4dqt4U1@mid.individual.net> <igTBk.40466$PK.20192@newsfe04.iad>
In-Reply-To: <igTBk.40466$PK.20192@newsfe04.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 27
Message-ID: <lfzDk.34823$IB6.15288@bignews8.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mabncmnekmdohbabdbdpiflmbcekedmfhojhikkbagflhcboojnhgkdedehknbngkdbhodmhclfafddjgb
fiinndokammkcbffniogjeiaoabfjhiifpgghlmijcaappcneohfljacgaiedgbakpcjmfgigpnmkl
NNTP-Posting-Date: Sat, 27 Sep 2008 19:22:57 EDT
Organization: BellSouth Internet Group
Date: Sat, 27 Sep 2008 19:25:03 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:850

Tio Pedro wrote:
> "Bob" <biascomms@invalid.inv> wrote in message
> news:6jpcm0F4dqt4U1@mid.individual.net...
>> Tio Pedro wrote:
>>
>>> A lot of folks have reported good results using the 6JH8 in place
>>> of the 7360; with a few reporting better linearity.  They appear
>>> to be pretty much the same as far as performance. Have you tried
>>> one?
>> Yes I have.  The results were disappointing compared to the 7360.  Perhaps
>> my values weren't optimised.  Maybe I should try again - the 6JH8 is
>> /much/
>> cheaper!
>>
>> Bob
>>
> Yeah, and I had a shot at a sleeve of them for 60 bucks several months
> back :(  Unfortunately, they aren't going to get any less expensive as
> time passes.
>
> Pete
>
>
There were a few other BD tubes as well.
The 6AR8 and 6ME8 are also listed in the RCA receiving tube
manuals along with the 6JH8.  I don't know about current price
and supply on those.


From 8143549495784942176
X-Google-Thread: fc2a5,1a70b767cd70bc46
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews8.bellsouth.net.POSTED!ef55a73e!
```

```
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
<LZiAk.29033$IB6.9166@bignews8.bellsouth.net> <6je7b6F2rhscU1@mid.individual.net>
<RTDAk.37908$vX2.17185@bignews6.bellsouth.net> <6jh2ueF3ab47U3@mid.individual.net>
<KTUAk.36335$Ep1.21799@bignews2.bellsouth.net>
<gLVAk.13934$wr1.13385@newsfe02.iad> <6jni6rF45o2qU1@mid.individual.net>
<6d2d9390-6da0-4ef7-99c3-56c7b345c223@f36g2000hsa.googlegroups.com>
<6jp12hF4bnapU1@mid.individual.net> <4eKBk.18738$Dj1.12594@newsfe01.iad>
<6jpcm0F4dqt4U1@mid.individual.net> <igTBk.40466$PK.20192@newsfe04.iad>
In-Reply-To: <igTBk.40466$PK.20192@newsfe04.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 26
Message-ID: <AizDk.34825$IB6.12928@bignews8.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mabncmnekmdohbabdbdpiflmbcekedmfhojhikkbagflhcbokalcjkbpcfbakncdfldfdkhknlmegeppgb
fiinndokammkcbffniogjeiaoabfjhiifpgghlmijcaapplpolgdiclojlajkmdpjdffkndkaaabno
NNTP-Posting-Date: Sat, 27 Sep 2008 19:26:24 EDT
Organization: BellSouth Internet Group
Date: Sat, 27 Sep 2008 19:28:30 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:851
```

Tio Pedro wrote:
> "Bob" <biascomms@invalid.inv> wrote in message
> news:6jpcm0F4dqt4U1@mid.individual.net...
>> Tio Pedro wrote:
>>
>>> A lot of folks have reported good results using the 6JH8 in place
>>> of the 7360; with a few reporting better linearity. They appear
>>> to be pretty much the same as far as performance. Have you tried
>>> one?
>> Yes I have. The results were disappointing compared to the 7360. Perhaps
>> my values weren't optimised. Maybe I should try again - the 6JH8 is
>> /much/
>> cheaper!
>>
>> Bob
>>
> Yeah, and I had a shot at a sleeve of them for 60 bucks several months
> back :(Unfortunately, they aren't going to get any less expensive as
> time passes.
>
> Pete
>
>

Also check out this link, good info on the 7360 as a mixer.

http://www.mail-archive.com/amradio@mailman.qth.net/msg03105.html
Seems the 7360 performance is poor with IF's above 1mhz.

```
From 1202407211712853388
X-Google-Thread: fc2a5,1a70b767cd70bc46
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe12.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
<LZiAk.29033$IB6.9166@bignews8.bellsouth.net> <6je7b6F2rhscU1@mid.individual.net>
<RTDAk.37908$vX2.17185@bignews6.bellsouth.net> <6jh2ueF3ab47U3@mid.individual.net>
<KTUAk.36335$Ep1.21799@bignews2.bellsouth.net>
<gLVAk.13934$wr1.13385@newsfe02.iad> <6jni6rF45o2qU1@mid.individual.net>
<6d2d9390-6da0-4ef7-99c3-56c7b345c223@f36g2000hsa.googlegroups.com>
<6jp12hF4bnapU1@mid.individual.net> <4eKBk.18738$Dj1.12594@newsfe01.iad>
<6jpcm0F4dqt4U1@mid.individual.net> <igTBk.40466$PK.20192@newsfe04.iad>
<AizDk.34825$IB6.12928@bignews8.bellsouth.net>
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <BrzDk.13167$VS3.9585@newsfe12.iad>
NNTP-Posting-Host: 72.192.52.79
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe12.iad 1222558561 72.192.52.79 (Sat, 27 Sep 2008 23:36:01 UTC)
NNTP-Posting-Date: Sat, 27 Sep 2008 23:36:01 UTC
Organization: Cox
Date: Sat, 27 Sep 2008 19:35:54 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:852
```

"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in > Also check out
this link, good info on the 7360 as a mixer.
> http://www.mail-archive.com/amradio@mailman.qth.net/msg03105.html
> Seems the 7360 performance is poor with IF's above 1mhz.

That poster also claims there is no rejection of either input signal
(grid or deflection plates) offered by the 7360.
Being a balanced modulator, the grid
signal can be cancelled by balancing the plate circuit.
It is used for DSB generation in SSB rigs!

Pete

From -5436381773398043012
X-Google-Thread: fc2a5,1a70b767cd70bc46
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
Date: Sun, 28 Sep 2008 00:54:26 +0100
Organization: Bias Comms
Lines: 9
Message-ID: <6k7vddF6ca8mU3@mid.individual.net>
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
<LZiAk.29033$IB6.9166@bignews8.bellsouth.net> <6je7b6F2rhscU1@mid.individual.net>
<RTDAk.37908$vX2.17185@bignews6.bellsouth.net> <6jh2ueF3ab47U3@mid.individual.net>
<KTUAk.36335$Ep1.21799@bignews2.bellsouth.net>
<gLVAk.13934$wr1.13385@newsfe02.iad> <6jni6rF45o2qU1@mid.individual.net>
<6d2d9390-6da0-4ef7-99c3-56c7b345c223@f36g2000hsa.googlegroups.com>
<6jp12hF4bnapU1@mid.individual.net> <4eKBk.18738$Dj1.12594@newsfe01.iad>
<6jpcm0F4dqt4U1@mid.individual.net> <igTBk.40466$PK.20192@newsfe04.iad>
<AizDk.34825$IB6.12928@bignews8.bellsouth.net>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net LxN2ElerW1HWu+TmqgkIjg/v+ZxeDhMxhLDYN3K10gVv3d5WbE
Cancel-Lock: sha1:FTiv3LXZuIRQtIzPTSbNtUgE8I8=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:853

ken scharf wrote:

> Also check out this link, good info on the 7360 as a mixer.
> http://www.mail-archive.com/amradio@mailman.qth.net/msg03105.html
> Seems the 7360 performance is poor with IF's above 1mhz.

The writer's an idiot. The 7360 is good to over 50 MHz IF!

Bob

From 577186380917688625
X-Google-Thread: 108122,8c501afae0c165f2
X-Google-Thread: fc2a5,8c501afae0c165f2
X-Google-Thread: 107ada,8c501afae0c165f2
X-Google-Thread: 110c99,8c501afae0c165f2
X-Google-Thread: 111320,8c501afae0c165f2
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet

```
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!l42g2000hsc.googlegroups.com!not-for-
mail
From: an_old_friend <konstans@hotmail.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: day 114 of the lawsuit wach the suit is stil MIA
Date: Sat, 27 Sep 2008 17:32:59 -0700 (PDT)
Organization: http://groups.google.com
Lines: 3
Message-ID: <a17166a3-850e-4c1a-9de3-680e52073d17@l42g2000hsc.googlegroups.com>
References: <1469c7a6-b1b2-4ceb-a8de-bfda8bcf2994@z66g2000hsc.googlegroups.com>
NNTP-Posting-Host: 69.19.14.36
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1222561980 2836 127.0.0.1 (28 Sep 2008 00:33:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 28 Sep 2008 00:33:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l42g2000hsc.googlegroups.com; posting-host=69.19.14.36;
     posting-account=10Pv3QoAAAAjTC9fwUuRD-bApJtUG_pO
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.3)
     Gecko/2008092417 Firefox/3.0.3,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:645
rec.radio.amateur.homebrew:854 rec.radio.amateur.misc:1207 rec.running:4051
rec.scouting.issues:876

On Sep 26, 9:20=A0am, tyreem...@gmail.com wrote:
>
spam


From -6089263694976656598
X-Google-Thread: fc2a5,1a70b767cd70bc46
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!npeer01.iad.highwinds-
media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews2.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
<LZiAk.29033$IB6.9166@bignews8.bellsouth.net> <6je7b6F2rhscU1@mid.individual.net>
<RTDAk.37908$vX2.17185@bignews6.bellsouth.net> <6jh2ueF3ab47U3@mid.individual.net>
<KTUAk.36335$Ep1.21799@bignews2.bellsouth.net>
<gLVAk.13934$wr1.13385@newsfe02.iad> <6jni6rF45o2qU1@mid.individual.net>
```

```
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X-Trace:
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NNTP-Posting-Date: Sat, 27 Sep 2008 20:41:21 EDT
Organization: BellSouth Internet Group
Date: Sat, 27 Sep 2008 20:46:20 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:855

Bob wrote:
> ken scharf wrote:
>
>> Also check out this link, good info on the 7360 as a mixer.
>> http://www.mail-archive.com/amradio@mailman.qth.net/msg03105.html
>> Seems the 7360 performance is poor with IF's above 1mhz.
>
> The writer's an idiot.  The 7360 is good to over 50 MHz IF!
>
> Bob
What he claimed was that the conversion gain dropped to unity above
that frequency.  That doesn't mean it isn't a good mixer at 50mhz.
Diode ring mixers have a unity (or LESS!) conversion gain, yet they
are very good mixers.


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From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
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Lines: 25
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X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <cBADk.325$Ra2.130@newsfe06.iad>
NNTP-Posting-Host: 72.192.52.79
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NNTP-Posting-Date: Sun, 28 Sep 2008 00:54:32 UTC
Organization: Cox
Date: Sat, 27 Sep 2008 20:54:26 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:856


"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:RoADk.41384$Ep1.38006@bignews2.bellsouth.net...
> >> The writer's an idiot.  The 7360 is good to over 50 MHz IF!
>>
>> Bob
> What he claimed was that the conversion gain dropped to unity above
> that frequency.  That doesn't mean it isn't a good mixer at 50mhz.
> Diode ring mixers have a unity (or LESS!) conversion gain, yet they
> are very good mixers.

I have to wonder if the guy took a broadband, untuned
PD circuit and tried to use it as a broadband mixer?

If that's the case, then the interelectrode c
apacities would definitely limit BW in a high
impedance circuit, unless they were
"tuned" out using a LC resonant circuit.  I ran into that
headscratcher trying to figure out how to drive the
deflectors using a broadband balun type arrangement;
like was done in the Squires RX.

Pete





From 3386803940826584932
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Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
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Date: Sun, 28 Sep 2008 06:50:49 +0100
Organization: Bias Comms
Lines: 22
Message-ID: <6k8k9kF6i2boU1@mid.individual.net>
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
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<6jpcm0F4dqt4U1@mid.individual.net> <igTBk.40466$PK.20192@newsfe04.iad>
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Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:857

ken scharf wrote:

> What he claimed was that the conversion gain dropped to unity above
> that frequency. That doesn't mean it isn't a good mixer at 50mhz.
> Diode ring mixers have a unity (or LESS!) conversion gain, yet they
> are very good mixers.

I get useful conversion gain at higher frequencies (though it's reduced) and it's easily compensated for by the AGC. I found that I needed fairly consistent IF signal levels for best performance of my crystal filters.

I appreciate the conversion /loss/ of diode ring mixers, but I find that amplifying, then attenuating, then amplifying again tends to introduce additional unwanted noise that can be avoided by use of a sensible gain distribution. Diode mixers also don't handle very large signal levels very well, and can produce some very strange results when over driven! I can't really understand the love that some designers have for them.

My newer design approach is to use a switching ring of FETs, but the results still can't match up to the 7360.

Bob

From 8162132305004702704
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From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
Date: Sun, 28 Sep 2008 06:54:07 +0100
Organization: Bias Comms
Lines: 24
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Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:858

Tio Pedro wrote:

> I have to wonder if the guy took a broadband, untuned
> PD circuit and tried to use it as a broadband mixer?

Almost certainly. He was therefore destined to fail completely!

> If that's the case, then the interelectrode
> capacities would definitely limit BW in a high
> impedance circuit, unless they were
> "tuned" out using a LC resonant circuit.

Exactly. "Tuning them out" would make the mixer somewhat less "broadband"!

> I ran into that
> headscratcher trying to figure out how to drive the
> deflectors using a broadband balun type arrangement;
> like was done in the Squires RX.

I looked at the Squires design, and it was very clever, but seemed to
require some obscure components that were unobtainable.

Bob

```
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mail
From: revtex <revtex@onetel.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Needed: Cinch 10 pin female socket
Date: Sun, 28 Sep 2008 02:44:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
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Xref: g2news1.google.com rec.radio.amateur.homebrew:859

On Sep 21, 3:49 am, wa2rqy <rlucch2...@aol.com> wrote:
> For my power supply which feeds my Gonset G-76.
> Appears that the last owner either removed the plastic pin retainer or
> it fell out.
> Now, there is nothing to support these female pins from wobbling
> around & connector from falling off with poor connections to boot.
>
> The Cinch/Jones model number is S-310-CCT-K
> Any help will be apprechiated in getting this rig back on the air.
>
> Need NOT be new.
> Regard/73.....
> Rich WA2RQY

Try www.electronicplus.com

they show s-310-cct but not -k

regards Revtex (non Ham)


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From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Sun, 28 Sep 2008 14:37:02 +0200 (CEST)
Organization: Mostly In Piles
Lines: 61
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References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:860

Topologies like push-pull, half-bridge and full bridge don't require dead time to reset the transformer core. Though that doesn't mean the switch's conduction times can overlap which causes shoot-though current.

I think what kills the push-pull in this case is overlapping conduction times not core saturation.

For amplifier power supplies it would simplify things to do the regulation at a lower voltage and keep the HV parts at a minimum. Phase controlled 60Hz switching is ok but this might be a better way.

There's a use for push-pull or half-bridge or full-bridge where the switches duty cycles are not modulated and the frequency is fixed. The switches run as close to 50% duty cycle as possible without overlap. It's called a "DC Transformer." It's one of the building blocks of compound converter topologies. Handy because it offers isolation and a fixed ratio of step-up or step-down with a DC input and output.

Since there's minimal dead-time and no output inductor is
required. The efficiency can be very high. The control
circuit is an oscillator running at 2F (Like a 555,) followed
by a flip-flop and a couple of gates to insure there is never
overlap. When using MOSFETs an RCD network on their gates
will work, though I favor using logic gates.

So if you built one of these with a 10:1 ratio you could
put 200VDC in and get 2000VDC out. Any regulation or
protection would be done to the 200VDC input. This might
not be a bad idea... your 2KV output stage now consists
of only rectifiers and a capacitor.

Doesn't have to be 200V, pick the voltage that makes it easy.

Just a thought.

raypsi <RBorowiak@gmail.com> wrote in news:f60045d7-f5a2-4dbe-a850-596e739387c8@25g2000hsx.googlegroups.com:

> Well I remember repairing Sony TV push pull SMPS I made a living from
> replacing many a blown PP pair. Sony then went to PP pair in a single
> package. That reduced the business for me but I had much experience
> repairing them already. Trick with the Sony push pull was 2% timing
> components. The PP had to be within 2% of 50% duty cycle. They used a
> self starting multi vibrator design. After replacing the blown parts
> I'd power the input up at 20vac and use a 12vdc supply for the start
> up circuit, Then check the waveform on a scope to make sure it was
> with 2% fo 50% duty cycle. There was no dead time in the Sony's. They
> just varied the frequency to regulate the voltage.
>
> 73
>
> n8zu
>

```
From -2217244448842134032
X-Google-Thread: fc2a5,1a70b767cd70bc46
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User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
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X-Trace:
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NNTP-Posting-Date: Sun, 28 Sep 2008 12:15:49 EDT
Organization: BellSouth Internet Group
Date: Sun, 28 Sep 2008 12:22:11 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:861
```

Bob wrote:

> My newer design approach is to use a switching ring of FETs, but the results
> still can't match up to the 7360.

Do you use the fets as passive switches, or do you apply power between the source/drain? What kind of fets (IE: depletion mode jfets or enhancement mode mosfets)?

Can you post the 7360 mixer circuit you use somewhere?

BTW these tubes (7360, 6AR8, 6JH8, 6ME8) are sensitive to magnetic fields and need to be shielded for best results. James Millen used to make a mu-metal shield that would fit over tubes this size. I would suspect unshielded tubes could be the reason for the poor results obtained with some of the color tv versions of these tubes.

Also the 7360 is shown as a tetrode, while the color tv tubes are pentodes (ie: they have three grids), but grid #2 is grounded and grid #3 has normal 'screen' voltage applied. Grid #2 is internally connected to the heater or cathode for these tubes.

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From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
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<RoADk.41384$Ep1.38006@bignews2.bellsouth.net>
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Lines: 35
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X-MSMail-Priority: Normal
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X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <tyODk.930$FV4.171@newsfe07.iad>
NNTP-Posting-Host: 72.192.52.79
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe07.iad 1222620441 72.192.52.79 (Sun, 28 Sep 2008 16:47:21 UTC)
NNTP-Posting-Date: Sun, 28 Sep 2008 16:47:21 UTC
Organization: Cox
Date: Sun, 28 Sep 2008 12:47:12 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:862
```

"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:RoADk.41384
>> ken scharf wrote:

> What he claimed was that the conversion gain dropped to unity above
> that frequency. That doesn't mean it isn't a good mixer at 50mhz.
> Diode ring mixers have a unity (or LESS!) conversion gain, yet they
> are very good mixers.

The conversion gain should be much greater than unity
for any of those balanced mixers. He was doing
something wrong to write statements like those.

Regarding the DBMs, sure they have some loss,
but the losses basically sets the mixer noise figure.
Add a few dB loss for the the front-end preselector
filtering, and may 8 dB loss for the mixer, followed
by a strong, low noise IF amplifier, and your pretty
much good to go, on the HF bands anyway..

DBMs like to be driven by symmetrical
LO waveforms (square wave is great) and the port
terminations are critical as well. My own experience
with them is that the supporting stages also need good

shielding, filtering and bypassing, they are great
harmonic mixers from DC to light!

I'm sure Bob's H-Ring designs are suberb; I've
pretty stopped playing with mixer circuits after the
DBMs became available well over 20 years ago!

Pete

From -3159080591755158943
X-Google-Thread: 108122,32ec4bbb895ca,start
X-Google-Thread: fc2a5,32ec4bbb895ca,start
X-Google-Thread: 107ada,32ec4bbb895ca,start
X-Google-Thread: 110c99,32ec4bbb895ca,start
X-Google-Thread: 111320,32ec4bbb895ca,start
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!b1g2000hsg.googlegroups.com!not-for-mail
From: tyreemand@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.running,rec.scouting.issues
Subject: Johshe 31 year old Woman in Santa Ana, California. Find Men for
     1-on-1 sex, Bondage
Date: Sun, 28 Sep 2008 10:51:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 3
Message-ID: <2f0f59a0-8c9a-4666-8c93-b27e597c9dd6@b1g2000hsg.googlegroups.com>
NNTP-Posting-Host: 92.112.149.66
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1222624315 30096 127.0.0.1 (28 Sep 2008 17:51:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 28 Sep 2008 17:51:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b1g2000hsg.googlegroups.com; posting-host=92.112.149.66;
     posting-account=8N4mVgoAAABmLLkJQvSeZsuS_r9oM6nG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser; Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:647
rec.radio.amateur.homebrew:863 rec.radio.amateur.misc:1210 rec.running:4064
rec.scouting.issues:878

Johshe 31 year old Woman in Santa Ana, California. Find Men for 1-on-1
sex, Bondage, Discipline, Discreet Relationship or Group sex

```
http://ragdai.info/Johshe3.htm


From 2428427875193527419
X-Google-Thread: fc2a5,ed200c69096e3c67
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!8g2000hse.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Needed: Cinch 10 pin female socket
Date: Sun, 28 Sep 2008 14:06:42 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <5118e247-f7bd-4c9e-a4f5-bb0d5e2d6b8f@8g2000hse.googlegroups.com>
References: <74248669-09f1-44e4-b897-ffd775929454@z66g2000hsc.googlegroups.com>
NNTP-Posting-Host: 76.226.117.218
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1222636002 1768 127.0.0.1 (28 Sep 2008 21:06:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 28 Sep 2008 21:06:42 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 8g2000hse.googlegroups.com; posting-host=76.226.117.218;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.17)
     Gecko/20080829 Firefox/2.0.0.17,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:864

On Sep 20, 10:49 pm, wa2rqy <rlucch2...@aol.com> wrote:
> For my power supply which feeds my Gonset G-76.
> Appears that the last owner either removed the plastic pin retainer or
> it fell out.
> Now, there is nothing to support these female pins from wobbling
> around & connector from falling off with poor connections to boot.


Well if you has the shell,  any S-310 will work. It's all the same
just
the shell or the mounting is different

I'd go wit the S-310-CCT

73 OM

n8zu


From 3389673820933647262
X-Google-Thread: fc2a5,1a70b767cd70bc46
```

```
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feeder.erje.net!news.k-
dsl.de!newsfeed.freenet.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
Date: Sun, 28 Sep 2008 23:57:16 +0100
Organization: Bias Comms
Lines: 10
Message-ID: <6kage8F537q6U1@mid.individual.net>
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
<LZiAk.29033$IB6.9166@bignews8.bellsouth.net> <6je7b6F2rhscU1@mid.individual.net>
<RTDAk.37908$vX2.17185@bignews6.bellsouth.net> <6jh2ueF3ab47U3@mid.individual.net>
<KTUAk.36335$Ep1.21799@bignews2.bellsouth.net>
<gLVAk.13934$wr1.13385@newsfe02.iad> <6jni6rF45o2qU1@mid.individual.net>
<6d2d9390-6da0-4ef7-99c3-56c7b345c223@f36g2000hsa.googlegroups.com>
<6jp12hF4bnapU1@mid.individual.net> <4eKBk.18738$Dj1.12594@newsfe01.iad>
<6jpcm0F4dqt4U1@mid.individual.net> <igTBk.40466$PK.20192@newsfe04.iad>
<AizDk.34825$IB6.12928@bignews8.bellsouth.net> <6k7vddF6ca8mU3@mid.individual.net>
<RoADk.41384$Ep1.38006@bignews2.bellsouth.net> <6k8k9kF6i2boU1@mid.individual.net>
<V4ODk.50194$XB4.2270@bignews9.bellsouth.net>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net CjZ5dr9VzTAQPl0gigkGnwHeiZ501rPu6p6lfCHEPTin2IXCpu
Cancel-Lock: sha1:NVa8hPVA8EEuaPufpOdv1aUT8Hk=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:865
```

ken scharf wrote:

> Can you post the 7360 mixer circuit you use somewhere?

I'll send you an email tomorrow. I'll have to scan my sketches - as with
all the best projects, the documentation was "informal"! ;)

Bob

```
From 8493277978508447019
X-Google-Thread: 108122,8258d55fe2920112,start
X-Google-Thread: fc2a5,8258d55fe2920112,start
X-Google-Thread: 107ada,8258d55fe2920112,start
X-Google-Thread: 110c99,8258d55fe2920112,start
X-Google-Thread: 111320,8258d55fe2920112,start
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid110c99,gid111320,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news1.google.com!news4.google.com!postnews.google.com!
l64g2000hse.googlegroups.com!not-for-mail
From: tyreemand@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: Super virtual girl. Sexy. Must look ALL!
Date: Mon, 29 Sep 2008 08:48:23 -0700 (PDT)
Organization: http://groups.google.com
Lines: 1
Message-ID: <30dbc41a-1827-4357-8e72-e95b8e80e2e8@l64g2000hse.googlegroups.com>
NNTP-Posting-Host: 92.112.155.134
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1222703304 16789 127.0.0.1 (29 Sep 2008 15:48:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 29 Sep 2008 15:48:24 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l64g2000hse.googlegroups.com; posting-host=92.112.155.134;
     posting-account=8N4mVgoAAABmLLkJQvSeZsuS_r9oM6nG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:652
rec.radio.amateur.homebrew:866 rec.radio.amateur.misc:1211 rec.running:4100
rec.scouting.issues:880

Super real virtual girl. Sexy. Must look ALL http://ragdai.info/video.htm


From 4408397027907773344
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!j68g2000hsf.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Tue, 30 Sep 2008 11:13:27 -0700 (PDT)
Organization: http://groups.google.com
Lines: 49
Message-ID: <63adc3a7-5996-4135-9077-f846fedf17d7@j68g2000hsf.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
     <xcSdnWqxlJtW917VnZ2dnUVZ_tjinZ2d@posted.cpinternet>
<60f04717-818a-47b7-8aa5-a879bb551155@w7g2000hsa.googlegroups.com>
     <Xns9B12A2B424C882MDWN@194.177.96.78> <Xns9B12CD624FE752MDWN@194.177.96.78>
     <Xns9B12D8C833BE02MDWN@194.177.96.78> <0d347e43-d718-4f8c-
a1da-620c2a60a472@a1g2000hsb.googlegroups.com>
     <Xns9B13256B78F62MDWN@194.177.96.78> <4c85e482-d4e9-4553-
aed7-7de32f2e9786@c65g2000hsa.googlegroups.com>
```

```
     <2eGdnflJqPAwo1jVnZ2dnUVZ_h-dnZ2d@posted.cpinternet> <3b5ac1cc-
c1b7-4c73-948d-92fc8a40f1c4@l64g2000hse.googlegroups.com>
     <Xns9B13B9538BB5A2MDWN@194.177.96.78> <d531292f-3f87-4a8d-bc37-
e5a34bfde383@f36g2000hsa.googlegroups.com>
     <Xns9B14BFB0AE0B42MDWN@194.177.96.78> <b9ad5b4d-203f-4e00-
b480-014a91da3a9c@i76g2000hsf.googlegroups.com>
     <Xns9B15C22EDBAA12MDWN@194.177.96.78>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1222798407 25166 127.0.0.1 (30 Sep 2008 18:13:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 30 Sep 2008 18:13:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j68g2000hsf.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:867

On Sep 10, 8:05=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> > Exactly right it is a gapped core. Once I git's a scope on I'll see.
>
> > But the voltage doubler they using is full wave doubler. Which means
> > they taking the positive and negative waves =A0to get 4000 or so volts
> > DC
> > Now the positive half they use a .0082 mfd for a filter and the
> > negative half they use a .0056 mfd filter both at 3000wvdc.
>
> my guess is the quasi-push pull output is due to the leakage energy
> recovery circuit. =A0HV flyback transformers usually have very high
> leakage inductance (the part of the magnetizng inductance not coupled
> to the secondary is leakage inductance) because distance between
> windings is a major cause of poor coupling and you need distance for
> isolation. =A0
>
> The leakage energy sloshes about in the primary causing all sorts of
> mischief. =A0This circuit recovers it and dumps it back into the primary.
> It's unusual since the leakage energy is usually dumped back into the
> bulk storage capacitor on the primary side if it's recovered by a clamp
> winding or active clamp circuit. =A0
>
> A soft switching topology often uses the leakage inductance to reduce
> transistion losses in =A0the switch. =A0Sometimes a discrete inductor is
> added in series with the transformer primary to add to it. =A0Another
> bonus for the lousy coupling of the HV flyback transformer... no
> discrete inductor needed. =A0I think of this as electronic ju-jitsu.
>
> The energy per half cycle (on the secondary) won't be equal so juggling
> the capacitor values helps equalize the voltage stress.
>
```

```
> Eh! =A0I might be completely wrong. =A0Simulating it would be the thing
> but it's too much like work work and I'd need the transformer parameters.
>
> At least that's how I think it works... Please let me know when you've
> scoped the waveforms.

I was looking at some old UPSs without the big iron transformer and
was trying to figure how they get 60Hz 1KW out of that little
transformer.
The best I an figure is that it works somewhat like a class G
amplifier. In this case the pulse width of the 20Khz or so signal is
being PW
modulated so when the output is intergrated you get 60Hz. If this is
the case I am thinking that UPSs may be hacked into HV power supplies
a lot easier,
safer and better than microwave oven power supplies.

Jimmie



From 4717948818903813010
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!t42g2000hsg.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Tue, 30 Sep 2008 16:13:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 63
Message-ID: <da31d4bd-6cd3-4186-9c03-33b87f606ee7@t42g2000hsg.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
     <Xns9B12A2B424C882MDWN@194.177.96.78> <Xns9B12CD624FE752MDWN@194.177.96.78>
     <Xns9B12D8C833BE02MDWN@194.177.96.78> <0d347e43-d718-4f8c-
a1da-620c2a60a472@a1g2000hsb.googlegroups.com>
     <Xns9B13256B78F62MDWN@194.177.96.78> <4c85e482-d4e9-4553-
aed7-7de32f2e9786@c65g2000hsa.googlegroups.com>
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c1b7-4c73-948d-92fc8a40f1c4@l64g2000hse.googlegroups.com>
     <Xns9B13B9538BB5A2MDWN@194.177.96.78> <d531292f-3f87-4a8d-bc37-
e5a34bfde383@f36g2000hsa.googlegroups.com>
     <Xns9B14BFB0AE0B42MDWN@194.177.96.78> <b9ad5b4d-203f-4e00-
b480-014a91da3a9c@i76g2000hsf.googlegroups.com>
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NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1222816397 17008 127.0.0.1 (30 Sep 2008 23:13:17 GMT)
X-Complaints-To: groups-abuse@google.com
```

```
NNTP-Posting-Date: Tue, 30 Sep 2008 23:13:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t42g2000hsg.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:868

On Sep 30, 2:13=A0pm, jimmi...@gmail.com wrote:
> On Sep 10, 8:05=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
>
>
>
>
>
> > > Exactly right it is a gapped core. Once I git's a scope on I'll see.
>
> > > But the voltage doubler they using is full wave doubler. Which means
> > > they taking the positive and negative waves =A0to get 4000 or so volt=
s
> > > DC
> > > Now the positive half they use a .0082 mfd for a filter and the
> > > negative half they use a .0056 mfd filter both at 3000wvdc.
>
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> > windings is a major cause of poor coupling and you need distance for
> > isolation. =A0
>
> > The leakage energy sloshes about in the primary causing all sorts of
> > mischief. =A0This circuit recovers it and dumps it back into the primar=
y.
> > It's unusual since the leakage energy is usually dumped back into the
> > bulk storage capacitor on the primary side if it's recovered by a clamp
> > winding or active clamp circuit. =A0
>
> > A soft switching topology often uses the leakage inductance to reduce
> > transistion losses in =A0the switch. =A0Sometimes a discrete inductor i=
s
> > added in series with the transformer primary to add to it. =A0Another
> > bonus for the lousy coupling of the HV flyback transformer... no
> > discrete inductor needed. =A0I think of this as electronic ju-jitsu.
>
> > The energy per half cycle (on the secondary) won't be equal so juggling
> > the capacitor values helps equalize the voltage stress.
>
> > Eh! =A0I might be completely wrong. =A0Simulating it would be the thing
> > but it's too much like work work and I'd need the transformer parameter=
s.
>
```

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> > scoped the waveforms.
>
> I was looking at some old UPSs without the big iron transformer and
> was trying to figure how they get 60Hz 1KW out of that little
> transformer.
> The best I an figure is that it works somewhat like a class G
> amplifier. In this case the pulse width of the 20Khz or so signal is
> being PW
> modulated so when the output is intergrated you get 60Hz. If this is
> the case I am thinking that UPSs may be hacked into HV power supplies
> a lot easier,
> safer and better than microwave oven power supplies.
>
> Jimmie- Hide quoted text -
>
> - Show quoted text -

Oooops, I meant class D instead of class G

From 2806562650953466075
X-Google-Thread: fc2a5,980be84b254468ae,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-nntp-07.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Reference oscillator frequency = IF?
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <ZKyEk.151029$6p1.91971@en-nntp-07.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Tue, 30 Sep 2008 16:37:27 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:869

I'm thinking it'd be a rather poor idea to make a reference oscillator for a DDS (or PLL) equal in frequency to an IF somewhere in your radio... right? Since you're just asking for it to get into the IF itself?

In the ideal world, would one choose reference oscillator frequencies that weren't harmonically related to IFs? I've seen those "IF planning" spreadsheets (that calculator where mixer spurs are going to fall), and such a choice seems like a good start.

Thanks,
---Joel Koltner

From -3382295631367167
X-Google-Thread: fc2a5,980be84b254468ae
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 30 Sep 2008 19:13:33 -0500
Date: Tue, 30 Sep 2008 17:13:37 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Reference oscillator frequency = IF?
References: <ZKyEk.151029$6p1.91971@en-nntp-07.dc1.easynews.com>
In-Reply-To: <ZKyEk.151029$6p1.91971@en-nntp-07.dc1.easynews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <4YGdnZdX2IgwXX_VnZ2dnUVZ_gGdnZ2d@web-ster.com>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
c3WGknfFllqbHXEXUeypuNa3nC17JkMqVMYqujG7AGujwEF2UqzxBfI3pRwS9GjnsmFZPAS63KZ3O1P!
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TaLf+qbhPexVIfM=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3321

Joel Koltner wrote:
> I'm thinking it'd be a rather poor idea to make a reference oscillator for a
> DDS (or PLL) equal in frequency to an IF somewhere in your radio... right?
> Since you're just asking for it to get into the IF itself?
>
> In the ideal world, would one choose reference oscillator frequencies that
> weren't harmonically related to IFs? I've seen those "IF planning"
> spreadsheets (that calculator where mixer spurs are going to fall), and such a
> choice seems like a good start.

I would certainly avoid it. With thorough enough shielding you can keep
just about any signal out of any circuit, but there's no need to tempt fate.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From -9222146031015172179
X-Google-Thread: fc2a5,980be84b254468ae
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: Erich <n6fd@mchsi.com>
User-Agent: Thunderbird 2.0.0.17 (Windows/20080914)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Reference oscillator frequency = IF?
References: <ZKyEk.151029$6p1.91971@en-nntp-07.dc1.easynews.com>
<4YGdnZdX2IgwXX_VnZ2dnUVZ_gGdnZ2d@web-ster.com>
In-Reply-To: <4YGdnZdX2IgwXX_VnZ2dnUVZ_gGdnZ2d@web-ster.com>
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Lines: 22
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NNTP-Posting-Host: 12.219.242.16
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1222837184 12.219.242.16 (Wed, 01 Oct 2008 04:59:44 GMT)
NNTP-Posting-Date: Wed, 01 Oct 2008 04:59:44 GMT
Organization: AT&T ASP.att.net
Date: Wed, 01 Oct 2008 04:59:44 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:871

Tim Wescott wrote:
> Joel Koltner wrote:
>> I'm thinking it'd be a rather poor idea to make a reference oscillator
>> for a DDS (or PLL) equal in frequency to an IF somewhere in your
>> radio... right? Since you're just asking for it to get into the IF
>> itself?
>>
>> In the ideal world, would one choose reference oscillator frequencies
>> that weren't harmonically related to IFs? I've seen those "IF
>> planning" spreadsheets (that calculator where mixer spurs are going to
>> fall), and such a choice seems like a good start.
>
> I would certainly avoid it. With thorough enough shielding you can keep
> just about any signal out of any circuit, but there's no need to tempt
> fate.
>
If you have a decent receiver, you would need over 100db of isolation.

That is very hard to get in a small space. One of the arts of receiver
design is taking care that all of the frequencies and mixing products
don't show up in the passband.

Erich N6FD

From -6358371574630353905
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
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nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 01 Oct 2008 07:15:47 -0500
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<Pine.LNX.4.64.0809091344450.12702@darkstar.example.org>
Subject: Re: CW is a hobby (off topic BWTH)
Date: Wed, 1 Oct 2008 08:15:41 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <orednYQaXIZu9H7VnZ2dnUVZ_j6dnZ2d@comcast.com>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 98.243.145.110
X-Trace: sv3-WA2C8HKF5xB84oipFlyWcqjlE05lHW1Pu344/
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L9ASJKTLf9MkTUTIUj6UPGkhBU3D0cgqRkxkJYAnYPqNDlOWRdFsHAvVd8!roF0uY7OitaTwy/
L46zD585rw99bYME=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:872

"Michael Black" <et472@ncf.ca> wrote in message
news:Pine.LNX.4.64.0809091344450.12702@darkstar.example.org...
> On Mon, 8 Sep 2008, AJ Lake wrote:
>
[snip]
> You have no history here, yet you pounce the minute someone posts
> about CW, someone who has been here a long time. And then a bunch
> of others suddenly appear, even though they don't post about building
> amateur radio equipment here.
>

> There is rec.radio.amateur.policy and rec.radio.amateur.misc and
> even rec.radio.amateur.moderated where you can have your debates
> to your heart's content.

rec.radio.amateur.policy has become unusable for any type of discussion due to the single handed take over by one individual. He has so many user names that blocking him becomes a chore in itself. The hundreds of posts that he makes in a day on every thing else that is posted was the reason that rec.radio.amateur.moderated was formed.

```
From -8590705613466333197
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
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nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 01 Oct 2008 07:20:56 -0500
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<878wu2urfu.fsf@hummer.cluon.com> <956f3fee-69e8-4782-
bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
<ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
<GvmdnTUQnMjWOlrVnZ2dnUVZ_tHinZ2d@bright.net>
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Date: Wed, 1 Oct 2008 08:20:51 -0400
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X-RFC2646: Format=Flowed; Response
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Lines: 41
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NNTP-Posting-Host: 98.243.145.110
X-Trace: sv3-7i0w5SIsNBIEwddnx7/zu1Q6OCBY4tXeQ08td+w4N2/
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L5Ce4UCWS53RUxIW8gGzIZANjUyvMyQ=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:873
```

"Scott" <acepilotREMOVE@bloomer.net> wrote in message

news:GvmdnTUQnMjWOlrVnZ2dnUVZ_tHinZ2d@bright.net...
> Bryan wrote:
>> Tim Shoppa wrote:
>> [snip]
>> The controversy in the 70's was the Technician license, a ticket that
>> required no code, as a way to get some CB'ers to take notice. I myself
>> came to ham radio in the 70's but had no interest in anything having
>> to do with Technician privileges. I know many other hams who did come
>> in that way in the 70's, 80's, etc.
>>
>> Tim N3QE
>>
>> The original Technician license required passing of a 5wpm receiving &
>> sending Morse test.
>>
>> 73,
>> Bryan WA7PRC
>
> I concur from experience in 1982 when I got my Tech license. I had to
> take the 5WPM code test at the FCC office. We had the same HF privileges
> as Novices and could operate on any frequency above 50.000 MHz. I can't
> recall, but I "THINK" the first code-free Tech licenses did not have HF
> privileges. Now that there is no code requirement for any class, I think
> Techs have some HF privileges again...a bit confusing ;)
>
> Scott
> N0EDV

The original no code Tech had no HF privileges since international treaties
required code for frequencies below 30 MHz.

Today's Technician now has all the HF privileges of the Novice class. Those
privileges have now been expanded also. On 40m, 15m, and 10m, their CW
privileges now cover the same spectrum as the General class license.

Dee
N8UZE

From 9045985499070790916
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
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news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 22 Sep 2008 19:24:16 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Mon, 22 Sep 2008 17:24:16 -0700

Message-ID: <k4cgd4d5mdbihnf0k3agvkovegpp77sa7h@4ax.com>
References: <33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <MtFBk.650$8v5.418@trnddc01>
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<p5pfd4lu68ktebb75e1aot4ltv2osci2di@4ax.com>
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X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3224

"JB" <nospam@goofball.net> wrote:

> You can't keep all the nuts out but you could make a big dent
>in the problem [with a cose test].

This is an old argument. It is the 'weeder' argument. A code test will weed out all the bad apples. It hasn't worked in the 50+ years I've been a ham. There have always been ham whackos.

In the 60's I listened to a daily net called WCARS (West Coast Amateur Radio Service- called Westcars) on 40M SSB in CA. They suffered daily harassment, carriers, unidentified obscenities ect. 75 meters SSB was bad then also. The IDed offenders were all code tested hams, likely the unidentified nuts also.

> A VE team around here got busted selling licenses.

There has always been some cheating on tests.

In the 50's you could get a Tech license by mail. Your buddy ham could give you the code test and any adult could proctor your exam. I don't have to tell you there were some no-code open-book Techs licensed.

And I think Bash came out in the 70's. That's where they were stealing the FCC exam questions and answers and publishing them in a book. (Questions-answers are SOP now but not then.

>Maybe you can think of some test or hoop besides CW to discourage the people
>that act out like morons because they lack self-control.

Sure. A psychology test...

From 6926465569219452257
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nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 22 Sep 2008 19:32:42 -0500
Date: Tue, 23 Sep 2008 00:32:40 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
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Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
References: <lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
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<a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com> <6jp65gF4dv26U1@mid.individual.net>
<aqdfd4dbdj6vcn03ubfbuv33gnqrad8249@4ax.com> <6jq0l3F4fgi4U1@mid.individual.net>
<38nfd4tuaqobee7u02p0kk95se7j0i8hsq@4ax.com> <6jq93bF4g1ptU1@mid.individual.net>
<f48gd49d4qgvsl8nvtnh20suq07j4b8b8h@4ax.com>
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3225

AJ Lake wrote:

>
> The rest of the transceiver industry (other than you) apparently
> thinks tube embedded HF transceivers are quite obsolete for a wide

> variety of reasons. Else they would be manufacturing and selling them.
> Even ham magazines print mostly solid state articles using modern
> solid state parts, which is right since hams should learn to use
> modern technology. When they do print a tube article it's usually
> described as nostalgia.

Except the Russians. They were still using tube gear in their military back in the mid 80s. Not susecptible to EMP (electromagnetic pulse) from a nuke going off. They may STILL be using tubes...I'm out of the loop since leaving the military in the late 80s...

Probably one reason there aren't more tube projects in QST, etc. is that nobody is left who wants to learn an "obsolete" technology and the old timers aren't going to bother writing about them because all they would hear is bitching about how someone wrote an article on old technology and wasted the pages in QST, etc. Just a guess.

Scott
N0EDV

From 731386612990009152
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Tue, 23 Sep 2008 01:51:59 +0100
Organization: Bias Comms
Lines: 17
Message-ID: <6jqst9F4m29pU1@mid.individual.net>
References: <33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com> <lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com> <06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <MtFBk.650$8v5.418@trnddc01> <a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com> <6jp65gF4dv26U1@mid.individual.net> <aqdfd4dbdj6vcn03ubfbuv33gnqrad8249@4ax.com> <6jq0l3F4fgi4U1@mid.individual.net> <38nfd4tuaqobee7u02p0kk95se7j0i8hsq@4ax.com> <6jq93bF4g1ptU1@mid.individual.net> <WKVBk.738$MN3.506@nwrddc01.gnilink.net>
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User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:775

JB wrote:

> There are RF tubes that can do up to 10 meters with plenty of gain and
> much better overload capabilities than what's out there now. It might
> cost a fortune to use that quality of filtering in a general coverage
> receiver, but you COULD build a really first class hybrid that blows away
> what's out there.

I did, and it didn't "cost a fortune". I got the crystal filters at a Rally, I had many of the other components in the junk boxes, and I just had to buy a few valves and some coil formers. I built the cases myself, and the internal module boxes are just soldered up PCB material. I found the reduction drive in a junked HRO, and bought the tuning capacitors very cheaply. Frequency indication and relative signal strength are shown on an LCD display.

Bob

```
From -7203386466916411732
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individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Tue, 23 Sep 2008 02:10:00 +0100
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Content-Transfer-Encoding: 7Bit
X-Trace: individual.net yON3Pprt9XS/UzyuETzocAGKeqTcX8F9tk6Lh8t406a2YKJtIQ
Cancel-Lock: sha1:vQVj2EtrmqqZBdZUWDGYJuI/MWA=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:776
```

AJ Lake wrote:

> Bob <biascomms@invalid.inv> wrote:
>

>>I've designed /commercial/ solid-state receivers, and there's just *no*
>>*way* to get results as good as can still be obtained from valves in
>>crucial parts of them!
>
> The rest of the transceiver industry (other than you) apparently
> thinks tube embedded HF transceivers are quite obsolete for a wide
> variety of reasons. Else they would be manufacturing and selling them.

They still do, in /professional/ receivers, though it's becoming rare due to the component cost. I also find that it's much easier and cheaper to go QRO with valves than it is with semiconductors. TV sweep tubes powered many of my HF amplifiers over the years!

> Even ham magazines print mostly solid state articles using modern
> solid state parts, which is right since hams should learn to use
> modern technology. When they do print a tube article it's usually
> described as nostalgia.

Most of them are scared that they'll get sued when some know-nothing-numpty gets bitten by the HT! I use semiconductors where they're appropriate and use valves when they are the best way to get the results I want. I really don't care about your perception of nostalgic engineering - I get better results with my hybrids than are /possible/ with semiconductors alone.

>>I'm not prejudiced at all -
>
> You used the term "Rice Box" to describe your dislike of a whole range
> of several hundred ham transceivers. Different manufacturers. Different
> models. Pure prejudice. Logically you should judge equipment on its
> individual merits, not by the race of the people who made it.

Believe me, I've tried most of them, and some are actually quite good. However, they simply don't match up to the performance of the receivers I have here - I've got my own hybrids, a Plessey PR 155 (probably the best of its genre), a couple of Eddystone boxes and a couple of "Sailor" marine rigs. There's /nothing/ that's come from Asia that can match /any/ of them!

>>I'll continue with what I consider to be the real essence of
>>our hobby, and build the gear myself!
>
> Building is but *one* facet of the hobby. Professional engineer hams
> capable of designing and building transceivers are a but very very
> tiny part of the hobby...

Not over here! Many Hams here are disappointed with the high-priced junk that comes from Asia, and find that it's very satisfying to build and operate proper home made gear. We also have a lot of QRP operators (mostly under 1 Watt) that simply won't be heard by those equipped with the Asian black boxes!

>>Not at all - they [Asians] /still/ can't make a good mobile phone! 8-)

> As I said prejudiced...

Oh dear. Perhaps you can't understand what's been said: The Asians are great at making stuff smaller and cheaper (I used to design for Panasonic), but they're *not* innovators, and everything's made _down_ to a price rather than _up_ to a specification. I find that attitude to be frustrating, and many companies I work for have abandoned that paradigm, and want to produce the best equipment, whatever the cost. That's why Nokia and Motorola make the best mobile phones, and Sony had to buy Ericcson in an effort to play catch-up!

There's no actual prejudice involved at all, just a simple statement of facts!

Bob

```
From -4958520680911815525
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!d77g2000hsb.googlegroups.com!not-for-
mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Mon, 22 Sep 2008 18:58:21 -0700 (PDT)
Organization: http://groups.google.com
Lines: 114
Message-ID: <db47cabc-6b6a-4bc1-a256-4aaabd4c5d76@d77g2000hsb.googlegroups.com>
References: <lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
     <06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <MtFBk.650$8v5.418@trnddc01>
     <a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com>
<6jp65gF4dv26U1@mid.individual.net>
     <aqdfd4dbdj6vcn03ubfbuv33gnqrad8249@4ax.com>
<6jq0l3F4fgi4U1@mid.individual.net>
     <38nfd4tuaqobee7u02p0kk95se7j0i8hsq@4ax.com>
<6jq93bF4g1ptU1@mid.individual.net>
     <f48gd49d4qgvsl8nvtnh20suq07j4b8b8h@4ax.com>
<UcydnYHQR9G3pEXVnZ2dnUVZ_rPinZ2d@bright.net>
NNTP-Posting-Host: 64.12.117.200
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1222135102 12643 127.0.0.1 (23 Sep 2008 01:58:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 23 Sep 2008 01:58:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d77g2000hsb.googlegroups.com; posting-host=64.12.117.200;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
```

X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows 98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-mtc-tc12.proxy.aol.com[400C704C] (Prism/1.2.1), HTTP/1.1 cache-mtc-ah08.proxy.aol.com[400C75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news2.google.com rec.radio.amateur.homebrew:3228

On Sep 22, 8:32=EF=BF=BDpm, Scott <acepilotREM...@bloomer.net> wrote:
> AJ Lake wrote:
>
> > The rest of the transceiver industry (other than you) apparently
> > thinks tube embedded HF transceivers are quite obsolete
> > for a wide
> > variety of reasons. Else they would be manufacturing
> > and selling them.

There are several reasons you don't see much manufactured tube gear, such as a "modern" version of the TS-520S.

The first reason is cost. Getting tubes and tube-type parts made in the quantities needed would be more expensive than using solid-state. Manufacturers can't use parts found at hamfests/rallys/on eBay, and gearing up to have stuff made custom is expensive and chancy. The complexity of the rig in ways such as needing both high and low voltage supplies adds to the cost, too.

The second reason is size.

The third and most important reason is that tubes have become electro-politically incorrect. Admitting that an old technology can do something - anything - better than a new one just rubs people the wrong way. Putting a 7360 in the front end of a "modern" transceiver would be an admission that there has been a better solution around for decades, and a lot of folks don't want to admit that.

As a case in point, look at the Elecraft K2. When it was introduced back in 1999, it blew away much more expensive rigs in many performance criteria. Yet its hardware design is much simpler than almost anything else on the market that comes close to its performance. Worse, it turns the usual marketing ideas upside down in that the basic rig is QRP and CW only *kit*, with 100W, SSB and many other features as add-on options.

The conventional wisdom of 1999 said there was no market for such a rig. But with almost no advertising over 6000 have been sold. And the product line has grown in several directions since 1999, including the K3, which has sold over 1500 units.

> > Even ham magazines print mostly solid state articles
> > using modern solid state parts,

How many complete multiband multimode transceiver projects have you seen in US ham magazines in the past 10 or 20 years?

> > which is right since hams should learn to use
> > modern technology.

But who decides what is "modern"?

Is SSB "modern"? It was first used on the air in the 1920s, first used by hams in the early 1930s, and has been commonly used by hams for 60-odd years. Almost no other service uses SSB anymore.

Is AM "modern"? It was first used on the air in 1900, and by 1906 was being heard across the Atlantic. It was common by the 1920s.

How about FM? It's only a couple decades newer than AM. Repeaters were in common use in the land mobile services in the 1950s.

RTTY dates back to WW2, and although the mechanical teleprinters have been replaced by computers the coding and FSK methods used are basically unchanged for half a century plus.

Most of the technologies we hams use have long been abandoned by other services, or are simply kept alive because of the large installed base of users - which is slowly dwindling.

> > When they do print a tube article it's usually
> > described as nostalgia.

You mean history.

> Except the Russians. =EF=BF=BDThey were still using tube gear in their
> military
> back in the mid 80s. =EF=BF=BDNot susecptible to EMP (electromagnetic
> pulse)
> from a nuke going off. =EF=BF=BDThey may STILL be using tubes...I'm out >=
 of the loop since leaving the military in the late 80s...

EMP was one reason, but there were others. A big one was that they had the industrial capacity to make high quality tubes in huge numbers, but not semiconductors, so the solid-state was reserved for where nothing else would work.

> Probably one reason there aren't more tube projects in QST, etc. > is tha=
t
> nobody is left who wants to learn an "obsolete" technology and
> the old
> timers aren't going to bother writing about them because all they
> would
> hear is bitching about how someone wrote an article on old
> technology
> and wasted the pages in QST, etc. =EF=BF=BDJust a guess.

Not exactly.

QST is a general-purpose magazine; the technical stuff largely goes to

QEX., which was created just for that purpose because the QST staff got and keeps getting complaints that QST is "too technical" (!).

Way back in 1989 a magazine called "Electric Radio" appeared, and is still going strong. It's a small mag that specializes in hollow-state gear, but there's plenty of interest and homebrewing going on.

Most of all, the internet has made it possible to put far more info out there than could fit in a magazine, without the cost and bother of printing and postage. Even I have a webpage (google my call) with a picture and description of my shack and rig. The resources out there are incredible; the main problem is getting through it all!

73 de Jim, N2EY

From 2395235113333727921
X-Google-Thread: 10c2ee,d01f3c86d4b73fd
X-Google-Thread: fc2a5,d01f3c86d4b73fd
X-Google-Thread: 1131b0,d01f3c86d4b73fd
X-Google-Attributes: gid10c2ee,gidfc2a5,gid1131b0,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
m44g2000hsc.googlegroups.com!not-for-mail
From: junebug1701 <junebug1701@gmail.com>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Mallory date code ?
Date: Mon, 22 Sep 2008 19:16:17 -0700 (PDT)
Organization: http://groups.google.com
Lines: 12
Message-ID: <1eec6580-708d-4b06-8c33-78f918cc7e47@m44g2000hsc.googlegroups.com>
References: <xbUBk.1988$eb4.1400@flpi147.ffdc.sbc.com>
NNTP-Posting-Host: 69.2.39.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1222136177 16325 127.0.0.1 (23 Sep 2008 02:16:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 23 Sep 2008 02:16:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m44g2000hsc.googlegroups.com; posting-host=69.2.39.5;
     posting-account=W0ewjQoAAACJTlK9mJ24xqyVVmqBGQM6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.12)
     Gecko/20050915 Mnenhy/0.7.3.0,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.antiques.radio+phono:6892
rec.radio.amateur.homebrew:778 sci.electronics.repair:6634

On Sep 22, 4:37=A0pm, "Henry Kolesnik" <koles...@nojunksbcglobal.net>
wrote:
> Does anyone know the date codes that Mallory uses on their electrolytic
> caps a 1900ufd at 450v? =A0Here's a couple of lines..

> CGS192T450X5L3PH
> 235-8112K
> Thanks

If I'd have to guess, Hank, I would say that cap was made in the 12th week of 1981. That's according to the last 4 digits.

James

```
From -2821208800791596061
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news2.google.com!postnews.google.com!
l43g2000hsh.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Mon, 22 Sep 2008 19:22:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 119
Message-ID: <b8346ab8-8ba4-4349-a9db-a8d5fa3e030e@l43g2000hsh.googlegroups.com>
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ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
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NNTP-Posting-Host: 64.12.117.200
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1222136534 17296 127.0.0.1 (23 Sep 2008 02:22:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 23 Sep 2008 02:22:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l43g2000hsh.googlegroups.com; posting-host=64.12.117.200;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
     98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-mtc-tc12.proxy.aol.com[400C704C] (Prism/1.2.1),
     HTTP/1.1 cache-mtc-ah08.proxy.aol.com[400C75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:779
```

On Sep 22, 8:24=EF=BF=BDpm, AJ Lake <nom...@fakeaddress.com> wrote:
> "JB" <nos...@goofball.net> wrote:
> > You can't keep all the nuts out but you could make a big dent

> >in the problem [with a cose test].
>
> This is an old argument. It is the 'weeder' argument.

And it has some validity.

> A code test will weed out all the bad apples.

No test will weed out all the bad apples. Particularly not a test that
is given one time only and then is good for life.

Consider all the testing that doctors and lawyers go through to get
their licenses. Yet there are still some doctors and lawyers who are
"bad apples". That doesn't mean the testing should be eliminated since
it doesn't do a perfect job!

> It hasn't worked in the 50+ years I've
> been a ham. There have always been ham whackos.

Of course. No test or screening method is perfect.

But it is human nature that people will value something more if they
have a personal investment in it.

> In the 60's I listened to a daily net called WCARS (West Coast
> Amateur
> Radio Service- called Westcars) on 40M SSB in CA. They
> suffered daily
> harassment, carriers, unidentified obscenities ect. 75 meters
> SSB was bad then also.

But was it as bad as in, say, the 1990s? As bad as the W6NUT repeater,
say?

> The IDed offenders were all code tested hams, likely
> the unidentified nuts also.

But you don't know for sure about the unidentified ones. Plus in those
days all US hams were allegedly code tested.

Most of all, note that the bad behavior you cite was all on voice, not
CW/Morse Code. The bad apples may have passed a code test at one time
or another, but they weren't *using* the mode!

> > A VE team around here got busted selling licenses.

> There has always been some cheating on tests.
>
> In the 50's you could get a Tech license by mail. Your buddy ham > could =
give you the code test and any adult could proctor your
> exam.

The exam procedure varied over time, and by the mid-1950s the person giving both code and written tests had to be an FCC licensed amateur or commercial operator. But it was all on the honor system.

> I don't
> have to tell you there were some no-code open-book Techs
> licensed.

More importantly, there was the Conditional license until the mid-1970s. The Conditional was a by-mail version of the General, if you lived far enough away from an FCC exam point. From ~1954 to ~1964 the distance was only 75 miles, and there were a *lot* of Conditionals licensed.

One "trick" I heard of, but was never able to verify, was that a would-be ham would give the address of a vacation home, friend or relative in the "Conditional zone" in order to get a Conditional license. Then, after some time passed, the ham would "move" to his/her actual address.

One of the big reasons for all the screaming about "incentive licensing" was that in order to upgrade, Conditionals would have to take tests at FCC offices in front of FCC examiners.
>
> And I think Bash came out in the 70's. That's where they were
> stealing
> the FCC exam questions and answers and publishing them in a
> book.
> (Questions-answers are SOP now but not then.

Yes, the infamous Bash books appeared in the 1970s.

What Bash did was to ask people leaving the exam sessions to recall whatever they could about the questions. He may have even sent folks to exam sessions simply to memorize what they could of the exams. He allegedly paid $1 per question reported. Over time he collected enough bits and pieces to reconstruct the entire exam set.

In doing so, Bash revealed the big secret of the FCC exams: There were only a few different versions of the various tests! That was why there was a 30-day wait to retest.

Some in the FCC wanted to prosecute Bash, but the FCC leadership overruled them. Then budget cuts in the early 1980s forced FCC to create the VE system, and the Q&A became public. Which put Bash out of business.

> >Maybe you can think of some test or hoop besides
> >CW to discourage the people
> >that act out like morons because they lack self-control.
>
> Sure. A psychology test...

It should be remembered that one of the factors which drove "incentive licensing" and other testing initiatives was the cb experience. FCC never imagined that huge numbers of people would simply ignore the rules, but within a few years of its creation, 11 meter CB was simply out of FCC's control. Breaking the rules became much more common than keeping them, and to this day FCC has not gotten the upper hand.

Now, why were hams so well-behaved compared to cbers, even when FCC spent far less resources to enforce the rules on the ham bands?

73 de Jim, N2EY

```
From -6242536355991072O3
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-
ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
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<a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com>
<KyQBk.553$Jw.18@nwrddc02.gnilink.net>
<p5pfd4lu68ktebb75e1aot4ltv2osci2di@4ax.com>
<R5VBk.727$MN3.244@nwrddc01.gnilink.net>
<k4cgd4d5mdbihnf0k3agvkovegpp77sa7h@4ax.com>
Subject: Re: CW is a hobby (off topic BWTH)
Lines: 59
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <ddZBk.828$MN3.308@nwrddc01.gnilink.net>
Date: Tue, 23 Sep 2008 03:17:29 GMT
NNTP-Posting-Host: 71.104.208.11
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1222139849 71.104.208.11 (Mon, 22 Sep 2008 23:17:29
EDT)
NNTP-Posting-Date: Mon, 22 Sep 2008 23:17:29 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:780
X-Original-Bytes: 4771
```

> There has always been some cheating on tests.
>

Maybe you hung out with a different crowd than I did. All my study was out of Engineering classes and ARRL Handbook and License manual for the regs. I was taught the code from a CW op who officiated my Novice exam. We didn't proceed until I could do on the air QSOs in front of him on the club station. And by the way, everyone that I studied and did code practice with, got ham tickets. Even a Mexican kid who barely spoke English. Those that bitched and moaned and threw tantrums over it, didn't want to after all. Glad not to have them.

You are correct that "weeder" tests can't be 100% effective. But if you think that they don't have an impact, then why test at all? If nothing is 100% effective then game is up? No more testing then? They went that route with CB and they couldn't even give people a litteracy test. I.E. getting them to sign a paper stating they would abide by the rules. FCC gave up on it and let it go fallow. The result was dealing dope and scoring hookers in between hetrodynes, pornographic tirades and general orgies of funny noises, wailing and knashing of teeth of the damned. The rest were chased from the band.
>
> >Maybe you can think of some test or hoop besides CW to discourage the people
> >that act out like morons because they lack self-control.
>
> Sure. A psychology test...

So, essentially a pseudoscientific approach? Ridiculous. Lets keep it all above board. Although Psychology is a fascinating study, there are aspects that can lead one astray. If my previous post was a psychology test, I might have failed you.

The whole Psychology idea reminds me of the Russian fake spyware scanner that pops up and tells you that you're infected and you will have to send $50 and download the cleaner to fix you up. You the pay the money, install the program and you're hooked up with endless spyware and adware until you can't boot up anymore and wipe your hard drive and reinstall Windows. No Thanks. You should know that answer cuts both ways senior. Even if you're buying the Psych.

All you have to do is make it difficult for those with short attention spans and little patience. Then follow up with peer pressure. But you have to ignore the tantrums and crying jags and reinforce good behavior. Until parents and governments realize that fact, society will continue to go fallow. Peer pressure is what happens when people begin imitating one another. That is how whole groups go nuts. It is how great teams succeed. It doesn't happen overnight. It is the result of people pushing the envelope and others tolerating or encouraging it to the point where the behavior becomes commonplace and acceptable and encouraged. I never spent any time on Westcars. Glad I never spent time in Nazi Germany either.

We don't have a code test anymore so it is a moot point. It is left to peer pressure and the skills tests. I will still use Morse Code because it is useful. It won't be useful if no one knows how to do it. It is even more useful because other people who use it aren't anything like your 75m phone Westcars people. This is all the proof I need that it works. But I guess you don't have that proof, do you?

```
From 4961968548440445020
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 22 Sep 2008 22:48:08 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Mon, 22 Sep 2008 20:48:09 -0700
Message-ID: <fvmgd4l4dhorj67fd7kgpmofp7subqarfb@4ax.com>
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properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3234
```

N2EY@aol.com wrote:

>There are several reasons you don't see much manufactured tube gear,
>such as a "modern" version of the TS-520S.

>The first reason is cost.

Agreed. Tranceivers of today are generally much less costly (and have many more features) than the tube gear of the past. Progress is good.

>The second reason is size.

Agreed. My 100W mobile rig sits on my dashboard. Try that with the
tube gear of the past. Progress is good.

>The third and most important reason is that tubes have
>become electro-politically incorrect.

Tubes are electro-politically incorrect?? Now that is funny. The
conspiracy theory? Black helicopters.... 8-O

>As a case in point, look at the Elecraft K2...
>it blew away much more expensive rigs in many performance criteria.

How many tubes do they use to get this performance?

>But with almost no advertising over 6000 have been sold.

Have you contacted them and suggested your 7360 tube front end idea
for use in the next model of the K2? How long do you think it would
take for them to stop laughing...

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NNTP-Posting-Date: Mon, 22 Sep 2008 22:48:08 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Mon, 22 Sep 2008 20:48:08 -0700
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X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3233

Bob <biascomms@invalid.inv> wrote:

>I also find that it's much easier and cheaper to go
>QRO with valves than it is with semiconductors.

Yes tubes are still quite valid in ham amps.

>TV sweep tubes powered many of my HF amplifiers over the years!

Remember those sweep tube KW amps? What was it, 6 tubes in parallel?

I think my old Swan 350 (nicknamed Swan 3-drifty for good reason) used
sweep tubes. Kept within specs they lasted a long time but they didn't
seem to take much out of resonance abuse.

And my Heath mono-banders, wasn't that a sweep compactron?

Yes I was a sweep tube fan also...

>Believe me, I've tried most of them, [Rice Boxes]

You've tried *most* of hundreds of models and brands? That seems to be
another unsupportable exaggeration.

> We also have a lot of QRP operators (mostly
>under 1 Watt) that simply won't be heard by those equipped with the Asian
>black boxes!

Now you're being funny. Cause you can't be serious, can you...

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Subject: Re: CW is a hobby (off topic BWTH)
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3232

Scott <acepilotREMOVE@bloomer.net> wrote:

>Except the Russians. They were still using tube gear in their military
>back in the mid 80s. Not susecptible to EMP (electromagnetic pulse)
>from a nuke going off.

I forgot about EMP. And I guess that is a quite valid reason for using
tubes in emergency gear. I do remember that EMP was one of the things
discussed for ham emergency gear.

I'm sure that our (US) military protects for EMP, but I doubt it is by
using tube equipment. Likely something more modern. Fancy Shielding?
Perhaps you know the technology currently used?

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Xref: g2news1.google.com rec.radio.amateur.homebrew:784
X-Original-Bytes: 2320


"AJ Lake" <nomail@fakeaddress.com> wrote in message
news:qfkgd4disr33bemka6qvqoev8s41b0eq42@4ax.com...
> Scott <acepilotREMOVE@bloomer.net> wrote:
>
> >Except the Russians.  They were still using tube gear in their military
> >back in the mid 80s.  Not susecptible to EMP (electromagnetic pulse)
> >from a nuke going off.
>
> I forgot about EMP. And I guess that is a quite valid reason for using
> tubes in emergency gear. I do remember that EMP was one of the things
> discussed for ham emergency gear.
>
> I'm sure that our (US) military protects for EMP, but I doubt it is by
> using tube equipment. Likely something more modern. Fancy Shielding?
> Perhaps you know the technology currently used?

In Desert Storm they were breaking out KWM-2a to replace radios that were
getting nailed from static in the blowing sand.




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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:785

"JB" <nospam@goofball.net> wrote:

>> There has always been some cheating on tests.
>Maybe you hung out with a different crowd than I did.

I hang out in the real world. Some people do cheat.

>You are correct that "weeder" tests can't be 100% effective. But if you
>think that they don't have an impact, then why test at all?

Weeder tests keep failures out for *no reason*.
Relevant tests keep failures out for a *good reason*.

> Although Psychology is a fascinating study, there are aspects...

I was being funny with the psychology testing thing. I didn't think
you'd really take me seriously.

>We don't have a code test anymore so it is a moot point.

I still have a code test: If you don't know CW we don't QSO.

>It won't be useful if no one knows how to do it.

Making people learn code just so you will have someone to talk to is a
bad reason.

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Xref: g2news1.google.com rec.radio.amateur.homebrew:786
X-Original-Bytes: 2842

"AJ Lake" <nomail@fakeaddress.com> wrote in message
news:58lgd41mr8rsud4lu0831ehm8sjtsgf0o5@4ax.com...
> Bob <biascomms@invalid.inv> wrote:
>
> >I also find that it's much easier and cheaper to go
> >QRO with valves than it is with semiconductors.
>

> Yes tubes are still quite valid in ham amps.
>
> >TV sweep tubes powered many of my HF amplifiers over the years!
>
> Remember those sweep tube KW amps? What was it, 6 tubes in parallel?
>
> I think my old Swan 350 (nicknamed Swan 3-drifty for good reason) used
> sweep tubes. Kept within specs they lasted a long time but they didn't
> seem to take much out of resonance abuse.
>
> And my Heath mono-banders, wasn't that a sweep compactron?

Yup

> Yes I was a sweep tube fan also...
>

At one point, sweep tubes were available cheaply at TV shops so the designs were at the edge of meltdown. It was neat to have a 350w pep radio, but that was asking way too much. I saw a lot of Swans and others that would break into oscillation with the least provocation. I knew one guy who was a regular customer of the Radio Shack Lifetime tubes. Give me a set of 6146s any day. Conservative designs yet economical. I can always follow up with 811s for more power. Those guys are still cheap and seem to last forever. If you have to plug it in the wall anyway, might just as well be tubes.

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NNTP-Posting-Date: Tue, 23 Sep 2008 00:53:46 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Mon, 22 Sep 2008 22:53:46 -0700
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X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:787

N2EY@aol.com wrote:

>Consider all the testing that doctors and lawyers go through to get
>their licenses. Yet there are still some doctors and lawyers who are
>"bad apples".

Exactly. Passing a license test does not prevent bad behavior.

>Most of all, note that the bad behavior you cite was all on voice, not
>CW/Morse Code. The bad apples may have passed a code test at one time
>or another, but they weren't *using* the mode!

Exactly. Passing a code test does not prevent bad behavior.

>The exam procedure varied over time, and by the mid-1950s the person
>giving both code and written tests had to be an FCC licensed amateur
>or commercial operator. But it was all on the honor system.

Not quite correct. I suppose even historians get it wrong sometimes.
Course I knew the mail order license procedure pretty well since I did
it twice, once for Novice and again for Tech.

The following could give the mail order code test:
An Extra, Advanced, or General Class licensee, or
a Commercial Radiotelegraph Operators licensee, or
a Government employee of a manually operated radio telegraph station.

And as I said before *any* adult (at least 21 then) licensed or not
could give the written exam.

>What Bash did was to ask people leaving the exam sessions to recall
>whatever they could about the questions.

Another piece of history I lived. I used Bash for my Advanced.

>Then budget cuts in the early 1980s forced FCC to
>create the VE system, and the Q&A became public.
>Which put Bash out of business.

Interesting how what was called cheating then is now a legit exam...

>Now, why were hams so well-behaved compared to cbers,

Because the hams had to ID? If people know who you are many act
better. And if they didn't ID no one would talk to them. Some did
bootleg though with false calls. I'll admit to bootlegging on CW
before my Novice ticket came. My buddies name was Kent, so I used
K7ENT. It wasn't issued yet so no harm no foul...

From 749668398433033046
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 23 Sep 2008 01:30:24 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Mon, 22 Sep 2008 23:30:25 -0700
Message-ID: <ua1hd41pugcira648oageumd3ls1bnf4tu@4ax.com>
References: <MtFBk.650$8v5.418@trnddc01>
<a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com> <6jp65gF4dv26U1@mid.individual.net>
<aqdfd4dbdj6vcn03ubfbuv33gnqrad8249@4ax.com> <6jq0l3F4fgi4U1@mid.individual.net>
<38nfd4tuaqobee7u02p0kk95se7j0i8hsq@4ax.com> <6jq93bF4g1ptU1@mid.individual.net>
<f48gd49d4qgvsl8nvtnh20suq07j4b8b8h@4ax.com> <6jqtv3F4i93bU1@mid.individual.net>
<58lgd41mr8rsud4lu0831ehm8sjtsgf0o5@4ax.com>
<kr_Bk.687$Jw.406@nwrddc02.gnilink.net>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 33
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-hQSRV9L4yMlOtiUYx3Fv1dQmLgSk+O9rCJzSv0y1eH6i3/VpH1T0WG1UQ1cJlY/
e4a282Zic7V0iPFn!
LUd14+cRy1QMJdUIECdByQJpN8tv6P6TBIENWh9J0EzZAdYcEYAGcOkDFFtYAeBuRPAGZomV
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3239

"JB" <nospam@goofball.net> wrote:

>At one point, sweep tubes were available cheaply at TV shops so the designs
>were at the edge of meltdown.

I worked in a TV shop after high school for gas money. Sweep tubes were very expensive as tubes went in those days. But I got mine and most of the rest of my ham parts from old discarded TV sets.

>Swans and others that would >break into oscillation

My Swan was drifty as I said. It was a heat problem with the VFO coil compartment. The osc was solid state, the only transistor in the whole rig. I solved it by building an external VFO.

>I knew one guy who was a
>regular customer of the Radio Shack Lifetime tubes.

In the 50s there was a tube company called Major Brand Tubes. They were mail order and had a lifetime tube guarantee. Their tubes seldom lasted more than a month in a TV, and they were good to their word. Send them the old tube and they sent you a new one free, you paid postage of course. Well after 5 or so replacements most people finally gave up. A real racket.

>Give me a set of 6146s any day.

I built a single tube 6146 transmitter. I used a voltage quadrupler direct from the 110V for the high voltage (no HV transformer needed). It was a simple high powered xtal controlled oscillator. I used it as a Novice. I don't remember the exact power input now, but it was probably around 50 watts. I just had to be careful which way I plugged it in the wall socket. Wrong way and fireworks...

```
From 7430943578782348718
X-Google-Thread: 10c2ee,d01f3c86d4b73fd
X-Google-Thread: fc2a5,d01f3c86d4b73fd
X-Google-Thread: 1131b0,d01f3c86d4b73fd
X-Google-Attributes: gid10c2ee,gidfc2a5,gid1131b0,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!news.astraweb.com!
border2.newsrouter.astraweb.com!not-for-mail
From: Franc Zabkar <fzabkar@iinternode.on.net>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Mallory date code ?
Date: Tue, 23 Sep 2008 16:32:28 +1000
Organization: Bachelor Life Ltd
Reply-To: fzabkar@iinternode.on.net
Message-ID: <jrmgd49pfv6aeolpo4ruv4sunfcqjbts7e@4ax.com>
References: <xbUBk.1988$eb4.1400@flpi147.ffdc.sbc.com>
X-Newsreader: Forte Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 48
NNTP-Posting-Host: 400b317b.news.astraweb.com
X-Trace: DXC=fM7:=O[HE]2SG6fD[7G;H=L?
```

0kYOcDh@:JQkNYjTjlX<3ElHVh5T5@88_`<I=2E[_8YaK?8iVNSd=
Xref: g2news1.google.com rec.antiques.radio+phono:6905
rec.radio.amateur.homebrew:789 sci.electronics.repair:6642

On Mon, 22 Sep 2008 16:37:00 -0500, "Henry Kolesnik"
<kolesnik@nojunksbcglobal.net> put finger to keyboard and composed:

>Does anyone know the date codes that Mallory uses on their electrolytic
>caps a 1900ufd at 450v? Here's a couple of lines..
>CGS192T450X5L3PH
>235-8112K
>Thanks

I have three screw terminal Mallory caps with the following markings:

MALLORY
MADE IN U.S.A
TYPE CGS
30000MFD 15VDC
POS + 85C
MAX SURGE 20VDC
95661319
235-8102K

MALLORY
MADE IN U.S.A
TYPE CGS
29000MFD 15VDC
POS + 85C
MAX SURGE 30VDC
CGS293U025R4C3PH
235-8532K

MALLORY
MADE IN U.S.A
TYPE CGS
21000MFD 16 VDC
POS + 85C
MAX SURGE 20 VDC
CGS213U016R3L
362 8906 56699

They all date from around the early 80s.

Here they are pictured among Sprague caps of the same vintage:
http://www.users.on.net/~fzabkar/screwcaps70.jpg

I'd say that 8112 is a YYWW date code.

- Franc Zabkar
--
Please remove one 'i' from my address when replying by email.

From -5881118482705716574
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Tue, 23 Sep 2008 07:34:38 +0100
Organization: Bias Comms
Lines: 18
Message-ID: <6jrgvoF4p21mU1@mid.individual.net>
References: <c5661e9b-a347-4b33-bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com> <06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <MtFBk.650$8v5.418@trnddc01> <a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com> <6jp65gF4dv26U1@mid.individual.net> <aqdfd4dbdj6vcn03ubfbuv33gnqrad8249@4ax.com> <6jq0l3F4fgi4U1@mid.individual.net> <38nfd4tuaqobee7u02p0kk95se7j0i8hsq@4ax.com> <6jq93bF4g1ptU1@mid.individual.net> <f48gd49d4qgvsl8nvtnh20suq07j4b8b8h@4ax.com> <UcydnYHQR9G3pEXVnZ2dnUVZ_rPinZ2d@bright.net> <qfkgd4disr33bemka6qvqoev8s41b0eq42@4ax.com>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net WXkwyn7XFyDzd3ioGaNEOgw+rlkgGP6pSquRcQBAGOzZwR33sH
Cancel-Lock: sha1:8xlX8Kh8wxDsbefQiibrO9o9QxA=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3241

AJ Lake wrote:

> I'm sure that our (US) military protects for EMP

No it doesn't and never has. The Russian plans for preemptive strikes included high air bursts over major centres of population to cripple communications. The Soviets /knew/ that the USA was entirely vulnerable to EMP, and still is.

> Perhaps you know the technology currently used?

Yes. We Brits have military communications equipment to deal with EMP - it's /all/ valve based. Trying to protect semiconductor gear against EMP is like trying to protect telephone equipment against lightning - entirely futile!

Bob

From 2341101233659660760

X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Tue, 23 Sep 2008 07:42:05 +0100
Organization: Bias Comms
Lines: 24
Message-ID: <6jrhdoF4p21mU2@mid.individual.net>
References: <c5661e9b-a347-4b33-bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <MtFBk.650$8v5.418@trnddc01>
<a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com> <6jp65gF4dv26U1@mid.individual.net>
<aqdfd4dbdj6vcn03ubfbuv33gnqrad8249@4ax.com> <6jq0l3F4fgi4U1@mid.individual.net>
<38nfd4tuaqobee7u02p0kk95se7j0i8hsq@4ax.com> <6jq93bF4g1ptU1@mid.individual.net>
<f48gd49d4qgvsl8nvtnh20suq07j4b8b8h@4ax.com> <6jqtv3F4i93bU1@mid.individual.net>
<58lgd41mr8rsud4lu0831ehm8sjtsgf0o5@4ax.com>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net NUy4IzrM7PMnqQ8Eibi8AA3RQK4yFt5W9zRUsdX0bFx9Zu7guL
Cancel-Lock: sha1:Cb1O2oOIIik9Au6vlX3XlV2Q4kc=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:791

AJ Lake wrote:

>>Believe me, I've tried most of them, [Rice Boxes]
>
> You've tried *most* of hundreds of models and brands? That seems to be
> another unsupportable exaggeration.

Not at all - I used to examine equipment for a well-respected ham magazine.
Most of the Asian gear is junk.

>> We also have a lot of QRP operators (mostly
>>under 1 Watt) that simply won't be heard by those equipped with the Asian
>>black boxes!
>
> Now you're being funny. Cause you can't be serious, can you...

Funnily enough, I worked a Canadian last night on 14 MHz, with each of us using less than 5 Watts. His signal was entirely inaudible on the extremely expensive Rice Box I've just repaired for a friend, but was clearly audible despite fierce adjacent Italian QRM on my hybrid RX (and on the Plessey).

C.

```
From -7227759167124636391
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!k30g2000hse.googlegroups.com!not-for-
mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Tue, 23 Sep 2008 02:18:10 -0700 (PDT)
Organization: http://groups.google.com
Lines: 86
Message-ID: <da44e731-8f2f-4bd1-b7cc-1ace9da71b1a@k30g2000hse.googlegroups.com>
References: <lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
     <06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <MtFBk.650$8v5.418@trnddc01>
     <a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com>
<KyQBk.553$Jw.18@nwrddc02.gnilink.net>
     <p5pfd4lu68ktebb75e1aot4ltv2osci2di@4ax.com>
<R5VBk.727$MN3.244@nwrddc01.gnilink.net>
     <k4cgd4d5mdbihnf0k3agvkovegpp77sa7h@4ax.com> <b8346ab8-8ba4-4349-a9db-
a8d5fa3e030e@l43g2000hsh.googlegroups.com>
     <murgd4504fae7faffi1oc3mdr7cqf5l33b@4ax.com>
NNTP-Posting-Host: 205.188.117.200
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1222161491 31734 127.0.0.1 (23 Sep 2008 09:18:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 23 Sep 2008 09:18:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k30g2000hse.googlegroups.com; posting-host=205.188.117.200;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
     98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-dtc-tb10.proxy.aol.com[CDBC702A] (Prism/1.2.1),
     HTTP/1.1 cache-dtc-ah08.proxy.aol.com[CDBC75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news2.google.com rec.radio.amateur.homebrew:3243
```

On Sep 23, 1:53=EF=BF=BDam, AJ Lake <nom...@fakeaddress.com> wrote:

> N...@aol.com wrote:
> >Consider all the testing that doctors and lawyers go through to get
> >their licenses. Yet there are still some doctors and lawyers who are
> >"bad apples".
>
> Exactly. Passing a license test does not prevent bad behavior.

Not exactly. Passing a license test does not prevent *ALL* bad behavior. Just because a test isn't perfect doesn't mean it has no effect.

> >Most of all, note that the bad behavior you cite was all on voice, not
> >CW/Morse Code. The bad apples may have passed a code test at one time
> >or another, but they weren't *using* the mode!
>
> Exactly. Passing a code test does not prevent bad behavior.

Not exactly. Passing a code test does not prevent *ALL* bad behavior.
Just because a test isn't perfect doesn't mean it has no effect.

> >The exam procedure varied over time, and by the mid-1950s the person
> >giving both code and written tests had to be an FCC licensed amateur
> >or commercial operator. But it was all on the honor system.

Mid 1960s, not mid 1950s.

> The following could give the mail order code test:
> An Extra, Advanced, or General Class licensee, or
> a Commercial Radiotelegraph Operators licensee, or
> a Government employee of a manually operated radio telegraph station.

Yep.

> And as I said before *any* adult (at least 21 then) licensed or not
> could give the written exam.

And the person had only to sign the form saying the test had been on
the up-and-up.

> >What Bash did was to ask people leaving the exam sessions to recall
> >whatever they could about the questions.
>
> Another piece of history I lived. I used Bash for my Advanced.

Why? The Advanced wasn't very hard.

> >Then budget cuts in the early 1980s forced FCC to
> >create the VE system, and the Q&A became public.
> >Which put Bash out of business.
>
> Interesting how what was called cheating then is now a legit exam...

Been that way for more than 25 years. Complain to FCC; *they* changed
it.
>
> >Now, why were hams so well-behaved compared to cbers,
>
> Because the hams had to ID?

CBers had to ID too. They had licenses, callsigns and everything.
Didn't stop them from misbehaving. Shall we eliminate callsigns and
licenses because they don't prevent all bad behavior?

> If people know who you are many act
> better. And if they didn't ID no one would talk to them.

Why didn't cbers do the same thing?

>=EF=BF=BDSome did
> bootleg though with false calls. I'll admit to bootlegging on CW
> before my Novice ticket came.

Why? Couldn't you wait?

> My buddies name was Kent, so I used
> K7ENT. It wasn't issued yet so no harm no foul...

It was wrong nonetheless.

The way something goes bad is often not by massive changes but a
little here and a little there. That's how cb went downhill - a little
extra power here, a non-ID there, a cussword here, a skip contact
there, and pretty soon playing by the rules was extinct.

73 de Jim, N2EY

From -6442370792543732723
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 23 Sep 2008 06:08:32 -0500
Date: Tue, 23 Sep 2008 11:08:31 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
References: <c5661e9b-a347-4b33-bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <MtFBk.650$8v5.418@trnddc01>
<a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com> <6jp65gF4dv26U1@mid.individual.net>
<aqdfd4dbdj6vcn03ubfbuv33gnqrad8249@4ax.com> <6jq0l3F4fgi4U1@mid.individual.net>
<38nfd4tuaqobee7u02p0kk95se7j0i8hsq@4ax.com> <6jq93bF4g1ptU1@mid.individual.net>
<f48gd49d4qgvsl8nvtnh20suq07j4b8b8h@4ax.com>
<UcydnYHQR9G3pEXVnZ2dnUVZ_rPinZ2d@bright.net>
<qfkgd4disr33bemka6qvqoev8s41b0eq42@4ax.com>
In-Reply-To: <qfkgd4disr33bemka6qvqoev8s41b0eq42@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <4YGdnXk4d52tU0XVnZ2dnUVZ_gidnZ2d@bright.net>
Lines: 23

X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
xdsCOPVQhC80HQygYBo8+BhQn9njwzD90aq5YsldSBR9gYFgqwI9ZbX2WM89nic3PNu4pYBIpsJIfX0!
xfl1h0q6M0KDSCZrN3Ax4q86dZmL9dD/izE2zrc7BtxM5PkW63pLHLN4Rr0QVqIZql5pQbVkZCRG!
wBSvKn2Eng==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:793

AJ Lake wrote:
.
>
> I'm sure that our (US) military protects for EMP, but I doubt it is by
> using tube equipment. Likely something more modern. Fancy Shielding?
> Perhaps you know the technology currently used?

Nope, no idea. When I was in the Air Force working on aircraft comm radio equipment, "they" told us if a nuke went off, our radios would most likely not work. I don't think fancy shielding would work since all radios I know of have a hole in the shield where RF and EMP can enter. It used to be called the antenna port. Not sure what they call it in "modern" equipment...

When I was still in the USAF, we had our EC-135 and RC-135 aircraft that still had some tube type radios on at least HF and UHF bands, ie 618-T and ARC-34...but...they also had modern radios such as the ARC-190 HF set. I loved the ARC-190 (Collins). It was a nice radio to use and work on. Still see them installed on at least National Guard KC-135s when I get aboard at airshows.

From -8036728044566072706
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Tue, 23 Sep 2008 13:33:58 +0100
Organization: Bias Comms
Lines: 36
Message-ID: <6js61hF4s03rU1@mid.individual.net>
References: <c5661e9b-a347-4b33-bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <MtFBk.650$8v5.418@trnddc01>
<a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com> <6jp65gF4dv26U1@mid.individual.net>

```
<aqdfd4dbdj6vcn03ubfbuv33gnqrad8249@4ax.com> <6jq0l3F4fgi4U1@mid.individual.net>
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<f48gd49d4qgvsl8nvtnh20suq07j4b8b8h@4ax.com>
<UcydnYHQR9G3pEXVnZ2dnUVZ_rPinZ2d@bright.net>
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<4YGdnXk4d52tU0XVnZ2dnUVZ_gidnZ2d@bright.net>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net Z26eP1xCxe87TPbxqpO2QQTXsEiPeQxjQkorYvX9f318U3iUzS
Cancel-Lock: sha1:nkPlvKtW8bSWzOC8ZIIbgmwfTo8=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:794
```

Scott wrote:

> AJ Lake wrote:
> .
>>
>> I'm sure that our (US) military protects for EMP, but I doubt it is by
>> using tube equipment. Likely something more modern. Fancy Shielding?
>> Perhaps you know the technology currently used?
>
> Nope, no idea. When I was in the Air Force working on aircraft comm
> radio equipment, "they" told us if a nuke went off, our radios would
> most likely not work. I don't think fancy shielding would work since
> all radios I know of have a hole in the shield where RF and EMP can
> enter. It used to be called the antenna port. Not sure what they call
> it in "modern" equipment...

I did some work on simulated EMP back in the 80's (when I was wearing a different engineering hat), and we found that there's /nothing/ that will protect semiconductor equipment against it.

We used very high voltage discharges (at the City University High Voltage Lab in London), and we destroyed all sorts of gear! The original plan was to examine resilience against lightning discharges, but later on the experiments were expanded to cover EMP. We found that "hollow-state" gear could withstand quite a lot of abuse and continue to work, whereas the solid-state equipment would die at the slightest provocation. This had /very/ serious ramifications for the "defence industry".

I've recently found another application that's best serviced with valves ("tubes" - U.S.). A friend of mine is responsible for the maintenance of a number or airport NDB units. The ones they had were solid state, and would quite regularly get fried by static or lightning. Over the last few days we've begun the design of a valve replacement for the "hot" end of these things. It's not difficult to get a few tens of Watts at MF with valves!

Bob

```
From 3983963326949271984
X-Google-Thread: fc2a5,83c5f9ff7b7b157f,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k30g2000hse.googlegroups.com!not-for-
mail
From: tamarmadgecay@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
radio.amateur.policy
Subject: boobs webcams
Date: Tue, 23 Sep 2008 06:42:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 3
Message-ID: <711eaa5d-b2e4-4e39-b9fa-b4f51eb6377f@k30g2000hse.googlegroups.com>
NNTP-Posting-Host: 92.112.154.0
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1222177337 17650 127.0.0.1 (23 Sep 2008 13:42:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 23 Sep 2008 13:42:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k30g2000hse.googlegroups.com; posting-host=92.112.154.0;
     posting-account=lpvsOQoAAADrItjCNLUGUA4f5NKzjLsd
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:2992
rec.radio.amateur.homebrew:3246 rec.radio.amateur.misc:9070
rec.radio.amateur.policy:36877

asian women webcams - adult cam - xxx webcams - sluts webcams - latina
women webcams - fucking hardcore webcams - sluts webcams
http://ragdai.info/bdsm-cam-broadcasting.htm


From -9020826690553601381
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!e39g2000hsf.googlegroups.com!not-for-
mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Tue, 23 Sep 2008 09:08:48 -0700 (PDT)
Organization: http://groups.google.com
Lines: 69
Message-ID: <96741f87-a4b1-497c-90c3-aab4a810570e@e39g2000hsf.googlegroups.com>
References: <06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com>
```

```
<MtFBk.650$8v5.418@trnddc01>
     <a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com>
<6jp65gF4dv26U1@mid.individual.net>
     <aqdfd4dbdj6vcn03ubfbuv33gnqrad8249@4ax.com>
<6jq0l3F4fgi4U1@mid.individual.net>
     <38nfd4tuaqobee7u02p0kk95se7j0i8hsq@4ax.com>
<6jq93bF4g1ptU1@mid.individual.net>
     <f48gd49d4qgvsl8nvtnh20suq07j4b8b8h@4ax.com>
<UcydnYHQR9G3pEXVnZ2dnUVZ_rPinZ2d@bright.net>
     <db47cabc-6b6a-4bc1-a256-4aaabd4c5d76@d77g2000hsb.googlegroups.com>
     <fvmgd4l4dhorj67fd7kgpmofp7subqarfb@4ax.com>
NNTP-Posting-Host: 207.101.100.154
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1222186129 13641 127.0.0.1 (23 Sep 2008 16:08:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 23 Sep 2008 16:08:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e39g2000hsf.googlegroups.com; posting-host=207.101.100.154;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3247
```

On Sep 22, 11:48=A0pm, AJ Lake <nom...@fakeaddress.com> wrote:
> N...@aol.com wrote:
> >There are several reasons you don't see much manufactured tube gear,
> >such as a "modern" version of the TS-520S.
> >The first reason is cost.
>
> Agreed. Tranceivers of today are generally much less costly (and have
> many more features) than the tube gear of the past. Progress is good.

Yes, amateur HF transceivers are generally less expensive to buy new when you adjust for inflation. But at the same time there is far less really-inexpensive new gear, and working on it yourself is much more involved. Plus many "older" SS rigs are difficult to repair because they used custom parts for which the only source is another rig of the same model. A ~50 year old tube rig can be easier to fix up than a ~25 year old SS rig for these reasons.

There is also the fact that in many situations it's better to have good basic performance rather than "features". Many "modern" rigs include lots of "features" because they are easy and inexpensive to include, but lack basic performance that was common 40+ years ago.

So while there is progress in cost and features, it comes at a price in other areas.
>
> >The second reason is size.
>

> Agreed. My 100W mobile rig sits on my dashboard. Try that with the
> tube gear of the past. Progress is good.

But simply making a rig small isn't always progress. For mobile/portable, small is good, but in the ham shack it can be a bother because the displays are hard to read, the controls tiny, and many functions are buried layers-deep in menus.

I'd rather have a rig with a decent front panel than one that fits in a shirt pocket.

> >The third and most important reason is that tubes have
> >become electro-politically incorrect.
>
> Tubes are electro-politically incorrect?? Now that is funny. The
> conspiracy theory? Black helicopters.... =A08-O

No, it's a fact. Your response proves it.

> >As a case in point, look at the Elecraft K2...
> >it blew away much more expensive rigs in many performance criteria.
>
> How many tubes do they use to get this performance?

None - for the reasons listed above.

You ever use one? I have. They're very good.

> >But with almost no advertising over 6000 have been sold.
>
> Have you contacted them and suggested your 7360 tube front end idea
> for use in the next model of the K2? How long do you think it would
> take for them to stop laughing...

See? You're saying tubes are electro-politically incorrect.

---

btw, the all-time DX record for a radio built by humans is held by a tube transmitter.

73 de Jim, N2EY

From 2739582319393098524
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 23 Sep 2008 11:49:49 -0500
From: AJ Lake <nomail@fakeaddress.com>

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Tue, 23 Sep 2008 09:49:50 -0700
Message-ID: <b56id4h9blco76glhi08l9d7lqqcul6nqe@4ax.com>
References: <MtFBk.650$8v5.418@trnddc01>
<a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com> <6jp65gF4dv26U1@mid.individual.net>
<aqdfd4dbdj6vcn03ubfbuv33gnqrad8249@4ax.com> <6jq0l3F4fgi4U1@mid.individual.net>
<38nfd4tuaqobee7u02p0kk95se7j0i8hsq@4ax.com> <6jq93bF4g1ptU1@mid.individual.net>
<f48gd49d4qgvsl8nvtnh20suq07j4b8b8h@4ax.com>
<UcydnYHQR9G3pEXVnZ2dnUVZ_rPinZ2d@bright.net>
<qfkgd4disr33bemka6qvqoev8s41b0eq42@4ax.com>
<4YGdnXk4d52tU0XVnZ2dnUVZ_gidnZ2d@bright.net>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 39
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
ktpp9M8BZ4wXWkoi68aDy1bwFASKPeTDk+v3Df7eue7bOAHjpmNNfReRQwQ+MKPFUmgQeMB3XMvhQIo!
84RdGLk7RE31plq6LeAGbhFC4AjJoUipXHfU3Cjtx04hoKbA/HCTypGzdJAsYZneKlZBTCJe
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:797

Scott <acepilotREMOVE@bloomer.net> wrote:

>AJ Lake wrote:
>.
>>
>> I'm sure that our (US) military protects for EMP, but I doubt it is by
>> using tube equipment. Likely something more modern. Fancy Shielding?
>> Perhaps you know the technology currently used?
>
>Nope, no idea.  When I was in the Air Force working on aircraft comm
>radio equipment, "they" told us if a nuke went off, our radios would
>most likely not work.

What was the plan with no radios operational?
Please tell me there was a plan...

> I don't think fancy shielding would work since
>all radios I know of have a hole in the shield where RF and EMP can
>enter.  It used to be called the antenna port.  Not sure what they call
>it in "modern" equipment...

I suppose any modern EMP US military countermeasures would be
classified. Maybe Bob in London can tell us...
```

>When I was still in the USAF, we had our EC-135 and RC-135 aircraft that
>still had some tube type radios on at least HF and UHF bands, ie 618-T
>and ARC-34...but...they also had modern radios such as the ARC-190 HF
>set.

I was working in the manufacturing of new tube type military equipment
(such as the APS 94 side looking radar) into the late 60s. I left the
electronics industry in 68 for an unrelated field and never kept up on
military gear after that.

>I loved the ARC-190 (Collins). It was a nice radio to use and
>work on. Still see them installed on at least National Guard KC-135s
>when I get aboard at airshows.

Collins was always nice gear, either in or out of a military skin.

```
From 6202839940392046943
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 23 Sep 2008 16:44:24 -0500
Date: Tue, 23 Sep 2008 21:44:22 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
References: <MtFBk.650$8v5.418@trnddc01>
<a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com> <6jp65gF4dv26U1@mid.individual.net>
<aqdfd4dbdj6vcn03ubfbuv33gnqrad8249@4ax.com> <6jq0l3F4fgi4U1@mid.individual.net>
<38nfd4tuaqobee7u02p0kk95se7j0i8hsq@4ax.com> <6jq93bF4g1ptU1@mid.individual.net>
<f48gd49d4qgvsl8nvtnh20suq07j4b8b8h@4ax.com>
<UcydnYHQR9G3pEXVnZ2dnUVZ_rPinZ2d@bright.net>
<qfkgd4disr33bemka6qvqoev8s41b0eq42@4ax.com>
<4YGdnXk4d52tU0XVnZ2dnUVZ_gidnZ2d@bright.net>
<b56id4h9blco76glhi08l9d7lqqcul6nqe@4ax.com>
In-Reply-To: <b56id4h9blco76glhi08l9d7lqqcul6nqe@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <xZmdnXPLrPil_kTVnZ2dnUVZ_j-dnZ2d@bright.net>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
YSHuPovTmWckSNxgF1jPtiowqVILYiYqx50xBYApGCMF47uz1c8inS2a0WejyOLfraQVCsyIDkiG/5/!
lFpbJB4puuVUEAGg4AIQEY9WDyqORmon5/5fmV/YYqtWJPhAx3Sf++w6+pOgK1i1gWPHwBcChi2n!
euh3TNwCKQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:798

AJ Lake wrote:

> Scott <acepilotREMOVE@bloomer.net> wrote:
>
>
>>AJ Lake wrote:

>>
>>Nope, no idea.  When I was in the Air Force working on aircraft comm
>>radio equipment, "they" told us if a nuke went off, our radios would
>>most likely not work.
>
>
> What was the plan with no radios operational?
> Please tell me there was a plan...
>

The only plan I knew of was to keep nukes from going off in the first
place.  I'd guess that since the EC-135s (Airborne Command Post) had
tube radios for at least HF, they would be able to communicate back to
Washington with those...




From -7303890408665820197
X-Google-Thread: 10c2ee,d01f3c86d4b73fd
X-Google-Thread: fc2a5,d01f3c86d4b73fd
X-Google-Thread: 1131b0,d01f3c86d4b73fd
X-Google-Attributes: gid10c2ee,gidfc2a5,gid1131b0,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.insightbb.com!news.insightbb.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 23 Sep 2008 17:24:39 -0500
From: "hifi-tek" <t.hoehler@insightbb.com>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,sci.electronics.repair
References: <xbUBk.1988$eb4.1400@flpi147.ffdc.sbc.com>
<jrmgd49pfv6aeolpo4ruv4sunfcqjbts7e@4ax.com>
Subject: Re: Mallory date code ?
Date: Tue, 23 Sep 2008 18:24:47 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Message-ID: <G8-dnT6szvI68UTVnZ2dnUVZ_tTinZ2d@insightbb.com>
```

```
Lines: 42
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
hhLAKJPaThjaf6c+xQ1TFnFOYsVGlw3RTr+7W+CF48A3hTJV8ECnMULTEVJhdZJFMKa2CZryTSBwmHA!
+8qSUnAHTitr/tcxgKVikVVPtV9fXhd2RDJwSrZhSkGaxVI5OGDOb3rsg/hdhKXlynE5jhznM/vH!
UvfjYCwXNKpokPc=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.antiques.radio+phono:33010
rec.radio.amateur.homebrew:3250 sci.electronics.repair:35244
```

<snip>

> MALLORY
> MADE IN U.S.A
> TYPE CGS
> 21000MFD 16 VDC
> POS + 85C
> MAX SURGE 20 VDC
> CGS213U016R3L
> 362 8906 56699
>
> They all date from around the early 80s.
>
> Here they are pictured among Sprague caps of the same vintage:
> http://www.users.on.net/~fzabkar/screwcaps70.jpg
>
> I'd say that 8112 is a YYWW date code.

It is a YYMM date code. I have several pieces of vintage medical electronics equip, and the date codes on the Mallory caps all match closely the date codes on other parts.

"> MALLORY
> MADE IN U.S.A
> TYPE CGS
> 30000MFD 15VDC
> POS + 85C
> MAX SURGE 20VDC
> 95661319
> 235-8102K

This one is from Feb 1982 - and it's Kosher too. ;-)
>
Remember Sprague's motto?
Don't be vague, ask for Sprague.

a little levity . . . very little . . .
Regards,
Tom

```
From 1971433469575958430
X-Google-Thread: 10c2ee,d01f3c86d4b73fd
X-Google-Thread: fc2a5,d01f3c86d4b73fd
X-Google-Thread: 1131b0,d01f3c86d4b73fd
X-Google-Attributes: gid10c2ee,gidfc2a5,gid1131b0,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news.astraweb.com!
border1.newsrouter.astraweb.com!not-for-mail
From: Franc Zabkar <fzabkar@iinternode.on.net>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Mallory date code ?
Date: Wed, 24 Sep 2008 17:58:43 +1000
Organization: Bachelor Life Ltd
Reply-To: fzabkar@iinternode.on.net
Message-ID: <4psjd4lt019nlqvcu9qo9kc93lkdkn3fmn@4ax.com>
References: <xbUBk.1988$eb4.1400@flpi147.ffdc.sbc.com>
<jrmgd49pfv6aeolpo4ruv4sunfcqjbts7e@4ax.com> <G8-
dnT6szvI68UTVnZ2dnUVZ_tTinZ2d@insightbb.com>
X-Newsreader: Forte Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 36
NNTP-Posting-Host: dfe81abc.news.astraweb.com
X-Trace: DXC=8?R1<1V0`WgJRZZkg^aP1jL?
0kYOcDh@j;>GTR`=ZX:bbTVG84H7a:`0Ti^S^n>X@n@aM8ae@Y04k
Xref: g2news2.google.com rec.antiques.radio+phono:33018
rec.radio.amateur.homebrew:3251 sci.electronics.repair:35257
```

On Tue, 23 Sep 2008 18:24:47 -0400, "hifi-tek"
<t.hoehler@insightbb.com> put finger to keyboard and composed:

>> I'd say that 8112 is a YYWW date code.
>
>It is a YYMM date code.

Then how do you account for the "32" in "235-8532K"?

Here are two more caps, with date codes of 7945 and 8102:

MALLORY
MADE IN U.S.A
CGS591T200R3C3PL
590MFD 200VDC
POS + 85C
MAX SURGE 250VDC
1014861-00
235-7945K

MALLORY
BIONOL
CAPACITOR
6MFD
660 VAC
60 HZ NO PCBS
95686701
37NB6606
PROTECTED
C 200 AFC
64591 PTD
8102-1

- Franc Zabkar
--
Please remove one 'i' from my address when replying by email.

```
From 7304259986683694677
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news2.google.com!postnews.google.com!
s50g2000hsb.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Wed, 24 Sep 2008 02:47:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 60
Message-ID: <47664bc1-cd38-4f89-87eb-6f4c8cad87be@s50g2000hsb.googlegroups.com>
References: <lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
     <06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <MtFBk.650$8v5.418@trnddc01>
     <a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com>
<KyQBk.553$Jw.18@nwrddc02.gnilink.net>
     <p5pfd4lu68ktebb75e1aot4ltv2osci2di@4ax.com>
<R5VBk.727$MN3.244@nwrddc01.gnilink.net>
     <k4cgd4d5mdbihnf0k3agvkovegpp77sa7h@4ax.com>
<ddZBk.828$MN3.308@nwrddc01.gnilink.net>
     <utpgd4l53kl4gqfn99jh9cj41jm1eck7b9@4ax.com>
NNTP-Posting-Host: 205.188.117.200
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1222249646 21483 127.0.0.1 (24 Sep 2008 09:47:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 24 Sep 2008 09:47:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s50g2000hsb.googlegroups.com; posting-host=205.188.117.200;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
     98),gzip(gfe),gzip(gfe)
```

```
X-HTTP-Via: HTTP/1.1 spider-dtc-ta01.proxy.aol.com[CDBC7001] (Prism/1.2.1),
     HTTP/1.1 cache-dtc-ah08.proxy.aol.com[CDBC75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:801
```

On Sep 23, 12:22=EF=BF=BDam, AJ Lake <nom...@fakeaddress.com> wrote:

> "JB" <nos...@goofball.net> wrote:
> >> There has always been some cheating on tests.
> >Maybe you hung out with a different crowd than I did. =EF=BF=BD
>
> I hang out in the real world. Some people do cheat.

Yes, they do. However it's one thing to know that cheating exists as a general rule, and a very different thing to cite specific instances of cheating. How much actual cheating on the ham license tests went on back in the pre-VE days? How much actually goes on today? I don't think anybody really knows.

I do know this, however:

(in this discussion, the "Conditional distance" is how far from an FCC quarterly exam point you had to live in order to get a license by mail. Distances cited are "air-line" distances, not driving distances)

Before about 1954, the "Conditional distance" was 125 miles, and FCC gave Novice and Tech exams at their offices. Plus if you had a by-mail license and moved to within the "Conditional distance", you had to retest in front of an FCC examiner within 90 days or lose the license.

Then for about ten years the "Conditional distance" was only 75 miles and the retest-if-you-move requirement went away. FCC also made all routine Novice and Tech licenses by-mail, regardless of distance. A considerable amount of CONUS was thus Conditional country.

About 1964 the FCC increased the Conditional distance to 175 miles and increased the number of exam points. Almost none of CONUS was Conditional country after that change.

>
> >You are correct that "weeder" tests can't be 100% effective. =EF=BF=BDBu=
t if you
> >think that they don't have an impact, then why test at all?
>
> Weeder tests keep failures out for *no reason*.
> Relevant tests keep failures out for a *good reason*.

A weeder test can be relevant. And given the number of amateurs actually using Morse Code on the air, it's a relevant test for an amateur radio license.

> > Although Psychology is a fascinating study, there are aspects...

> I was being funny with the psychology testing thing. I didn't think
> you'd really take me seriously.

In a way, a big part of the testing is psychological. If we could
trust everyone to learn the technology, operating practices, rules and
regs as needed, there'd be no need for a test. By testing, we make
people prove they actually learned a few things, even though the
testing is far from comprehensive and doesn't test if the person
understands the material. But having observed what happens when people
are trusted to learn on their own, (cb as one example), testing seems
to be a good idea.

73 de Jim, N2EY

From -3951736909576930098
X-Google-Thread: 10c2ee,d01f3c86d4b73fd
X-Google-Thread: fc2a5,d01f3c86d4b73fd
X-Google-Thread: 1131b0,d01f3c86d4b73fd
X-Google-Attributes: gid10c2ee,gidfc2a5,gid1131b0,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!
news.germany.com!aioe.org!not-for-mail
From: Syl <syl@someplace.com>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Mallory date code ?
Date: Wed, 24 Sep 2008 07:17:26 -0400
Organization: Aioe.org NNTP Server
Lines: 13
Message-ID: <gbd7k6$7ec$2@aioe.org>
References: <xbUBk.1988$eb4.1400@flpi147.ffdc.sbc.com>
<jrmgd49pfv6aeolpo4ruv4sunfcqjbts7e@4ax.com> <G8-
dnT6szvI68UTVnZ2dnUVZ_tTinZ2d@insightbb.com>
<4psjd4lt019nlqvcu9qo9kc93lkdkn3fmn@4ax.com>
NNTP-Posting-Host: IEqzHUH0eP3hB0bSqKbE9A.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@aioe.org
User-Agent: Thunderbird 2.0.0.16 (X11/20080724)
Xref: g2news2.google.com rec.antiques.radio+phono:33019
rec.radio.amateur.homebrew:3253 sci.electronics.repair:35266

Franc Zabkar a �crit :
> On Tue, 23 Sep 2008 18:24:47 -0400, "hifi-tek"
> <t.hoehler@insightbb.com> put finger to keyboard and composed:
>
>>> I'd say that 8112 is a YYWW date code.
>> It is a YYMM date code.
>
> Then how do you account for the "32" in "235-8532K"?

It IS YYWW (that is year and week)
so....235-8532 means 1985, 32nd week. That is why the K is there...

Syl

```
From 1903853759112100669
X-Google-Thread: 10c2ee,d01f3c86d4b73fd
X-Google-Thread: fc2a5,d01f3c86d4b73fd
X-Google-Thread: 1131b0,d01f3c86d4b73fd
X-Google-Attributes: gid10c2ee,gidfc2a5,gid1131b0,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!flpi089.ffdc.sbc.com!prodigy.net!
flpi088.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!nlpi061.nbdc.sbc.com.POSTED!
c57ba9df!not-for-mail
From: John Byrns <byrnsj@sbcglobal.net>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Mallory date code ?
Organization: KAOS
References: <xbUBk.1988$eb4.1400@flpi147.ffdc.sbc.com>
<jrmgd49pfv6aeolpo4ruv4sunfcqjbts7e@4ax.com> <G8-
dnT6szvI68UTVnZ2dnUVZ_tTinZ2d@insightbb.com>
<4psjd4lt019nlqvcu9qo9kc93lkdkn3fmn@4ax.com> <gbd7k6$7ec$2@aioe.org>
User-Agent: MT-NewsWatcher/3.5.2 (PPC Mac OS X)
Message-ID: <byrnsj-3C12B8.07313424092008@newsclstr03.news.prodigy.net>
Lines: 23
NNTP-Posting-Host: 75.22.142.157
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi061.nbdc.sbc.com 1222259494 ST000 75.22.142.157 (Wed, 24 Sep 2008
08:31:34 EDT)
NNTP-Posting-Date: Wed, 24 Sep 2008 08:31:34 EDT
X-UserInfo1:
OXYACW_DFRTSP_@YMZJ\_Q\@TJ_ZTB\MV@BL\QMIWIWTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Wed, 24 Sep 2008 07:31:34 -0500
Xref: g2news2.google.com rec.antiques.radio+phono:33023
rec.radio.amateur.homebrew:3254 sci.electronics.repair:35267

In article <gbd7k6$7ec$2@aioe.org>, Syl <syl@someplace.com> wrote:

> Franc Zabkar a �crit :
> > On Tue, 23 Sep 2008 18:24:47 -0400, "hifi-tek"
> > <t.hoehler@insightbb.com> put finger to keyboard and composed:
> >
> >>> I'd say that 8112 is a YYWW date code.
> >> It is a YYMM date code.
> >
> > Then how do you account for the "32" in "235-8532K"?
>
> It IS YYWW (that is year and week)
> so....235-8532 means 1985, 32nd week. That is why the K is there...
```

I agree that it is YYWW, but I don't understand what you are saying the reason is that the "K" is there? Why is the "K" there?

--
Regards,

John Byrns

Surf my web pages at, http://fmamradios.com/

```
From 5722671923954029950
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!news.k-
dsl.de!aioe.org!not-for-mail
From: Syl <syl@someplace.com>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Mallory date code ?
Date: Wed, 24 Sep 2008 10:58:58 -0400
Organization: Aioe.org NNTP Server
Lines: 20
Message-ID: <gbdkji$v4m$1@aioe.org>
References: <xbUBk.1988$eb4.1400@flpi147.ffdc.sbc.com>
<jrmgd49pfv6aeolpo4ruv4sunfcqjbts7e@4ax.com> <G8-
dnT6szvI68UTVnZ2dnUVZ_tTinZ2d@insightbb.com>
<4psjd4lt019nlqvcu9qo9kc93lkdkn3fmn@4ax.com> <gbd7k6$7ec$2@aioe.org>
<byrnsj-3C12B8.07313424092008@newsclstr03.news.prodigy.net>
NNTP-Posting-Host: IEqzHUH0eP3hB0bSqKbE9A.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@aioe.org
User-Agent: Thunderbird 2.0.0.16 (X11/20080724)
Xref: g2news2.google.com rec.antiques.radio+phono:33026
rec.radio.amateur.homebrew:3255 sci.electronics.repair:35273
```

John Byrns wrote:

```
> In article <gbd7k6$7ec$2@aioe.org>, Syl <syl@someplace.com> wrote:
>
>> Franc Zabkar a �crit :
>>> On Tue, 23 Sep 2008 18:24:47 -0400, "hifi-tek"
>>> <t.hoehler@insightbb.com> put finger to keyboard and composed:
>>>
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>>>> It is a YYMM date code.
>>> Then how do you account for the "32" in "235-8532K"?
>> It IS YYWW (that is year and week)
>> so....235-8532 means 1985, 32nd week. That is why the K is there...
>
> I agree that it is YYWW, but I don't understand what you are saying the reason
> is that the "K" is there?  Why is the "K" there?
>
```

weeK, to avoid any possible confusion to the date format used.

Syl

```
From -6311968838711523948
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!5f77305f!not-for-
mail
Reply-To: "VZ/res0zhra" <res0zhra@verizon.net>
From: "VZ/res0zhra" <res0zhra@verizon.net>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,sci.electronics.repair
References: <xbUBk.1988$eb4.1400@flpi147.ffdc.sbc.com>
<jrmgd49pfv6aeolpo4ruv4sunfcqjbts7e@4ax.com> <G8-
dnT6szvI68UTVnZ2dnUVZ_tTinZ2d@insightbb.com>
<4psjd4lt019nlqvcu9qo9kc93lkdkn3fmn@4ax.com> <gbd7k6$7ec$2@aioe.org>
<byrnsj-3C12B8.07313424092008@newsclstr03.news.prodigy.net>
<gbdkji$v4m$1@aioe.org>
Subject: Re: Mallory date code ?
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <ITtCk.1193$MN3.877@nwrddc01.gnilink.net>
Date: Wed, 24 Sep 2008 16:27:20 GMT
NNTP-Posting-Host: 71.98.229.192
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1222273640 71.98.229.192 (Wed, 24 Sep 2008 12:27:20
EDT)
NNTP-Posting-Date: Wed, 24 Sep 2008 12:27:20 EDT
Xref: g2news2.google.com rec.antiques.radio+phono:33029
rec.radio.amateur.homebrew:3256 sci.electronics.repair:35277

"Syl" <syl@someplace.com> wrote in message news:gbdkji$v4m$1@aioe.org...
> John Byrns wrote:
>> In article <gbd7k6$7ec$2@aioe.org>, Syl <syl@someplace.com> wrote:
>>
>>> Franc Zabkar a �crit :
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>>>> <t.hoehler@insightbb.com> put finger to keyboard and composed:
>>>>
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>>> It IS YYWW (that is year and week)
>>> so....235-8532 means 1985, 32nd week. That is why the K is there...
>>
```

>> I agree that it is YYWW, but I don't understand what you are saying the
>> reason
>> is that the "K" is there? Why is the "K" there?
>>
>
> weeK, to avoid any possible confusion to the date format used.
>
> Syl

I have two that have the code 235-6039H. Looks like the 39th weeH of 1960.

```
From 6878424423858817447
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news4.google.com!out03b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nlpi057.nbdc.sbc.com!prodigy.net!flpi088.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!nlpi067.nbdc.sbc.com.POSTED!c57ba9df!not-for-mail
From: John Byrns <byrnsj@sbcglobal.net>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Mallory date code ?
Organization: KAOS
References: <xbUBk.1988$eb4.1400@flpi147.ffdc.sbc.com>
<jrmgd49pfv6aeolpo4ruv4sunfcqjbts7e@4ax.com> <G8-
dnT6szvI68UTVnZ2dnUVZ_tTinZ2d@insightbb.com>
<4psjd4lt019nlqvcu9qo9kc93lkdkn3fmn@4ax.com> <gbd7k6$7ec$2@aioe.org>
<byrnsj-3C12B8.07313424092008@newsclstr03.news.prodigy.net>
<gbdkji$v4m$1@aioe.org>
User-Agent: MT-NewsWatcher/3.5.2 (PPC Mac OS X)
Message-ID: <byrnsj-E46889.11483324092008@newsclstr03.news.prodigy.net>
Lines: 36
NNTP-Posting-Host: 75.22.142.157
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi067.nbdc.sbc.com 1222274913 ST000 75.22.142.157 (Wed, 24 Sep 2008
12:48:33 EDT)
NNTP-Posting-Date: Wed, 24 Sep 2008 12:48:33 EDT
X-UserInfo1:
FKPGG_CFGRUUCSH]]RKB_UDAZZ\DPCPDLXUNNH\KMAVNDQUBLNTC@AWZWDXZXQ[K\FFSKCVM@F_N_DOBWV
WG__LG@VVOIPLIGX\
\BU_B@\P\PFX\B[APHTWAHDCKJF^NHD[YJAZMCY_CWG[SX\Y]^KC\HSZRWSWKGAY_PC[BQ[BXAS\F\
\@DMTLFZFUE@\VL
Date: Wed, 24 Sep 2008 11:48:33 -0500
Xref: g2news2.google.com rec.antiques.radio+phono:33030
rec.radio.amateur.homebrew:3257 sci.electronics.repair:35280
```

In article <gbdkji$v4m$1@aioe.org>, Syl <syl@someplace.com> wrote:

> John Byrns wrote:
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> >
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> >
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> > reason
> > is that the "K" is there? Why is the "K" there?
>
> weeK, to avoid any possible confusion to the date format used.

That's where I figured you were headed with the "K", but typically the YYWW date code, as used on semiconductors for example, is used without a format indicator, in fact IIRC some versions of the YYWW date code scramble the digits in one way or another to obscure their meaning.

I wonder if the "K" might not have another meaning, such as a code to indicate which of several factories the device was produced in? If that is the case, the fact that "K" is the last letter in "week" might just be a coincidence.

--
Regards,

John Byrns

Surf my web pages at, http://fmamradios.com/

From -4591773272707574278
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <MtFBk.650$8v5.418@trnddc01>
<a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com>
<KyQBk.553$Jw.18@nwrddc02.gnilink.net>
<p5pfd4lu68ktebb75e1aot4ltv2osci2di@4ax.com>
<R5VBk.727$MN3.244@nwrddc01.gnilink.net>
<k4cgd4d5mdbihnf0k3agvkovegpp77sa7h@4ax.com>
<ddZBk.828$MN3.308@nwrddc01.gnilink.net>
<utpgd4l53kl4gqfn99jh9cj41jm1eck7b9@4ax.com> <47664bc1-

```
cd38-4f89-87eb-6f4c8cad87be@s50g2000hsb.googlegroups.com>
Subject: Re: CW is a hobby (off topic BWTH)
Lines: 85
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 8bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <IiuCk.1066$Jw.771@nwrddc02.gnilink.net>
Date: Wed, 24 Sep 2008 16:56:08 GMT
NNTP-Posting-Host: 71.110.226.230
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1222275368 71.110.226.230 (Wed, 24 Sep 2008 12:56:08
EDT)
NNTP-Posting-Date: Wed, 24 Sep 2008 12:56:08 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3258
```

> >> There has always been some cheating on tests.
> >Maybe you hung out with a different crowd than I did. �
>
> I hang out in the real world. Some people do cheat.

Yes, they do. However it's one thing to know that cheating exists as a general rule, and a very different thing to cite specific instances of cheating. How much actual cheating on the ham license tests went on back in the pre-VE days? How much actually goes on today? I don't think anybody really knows.

I do know this, however:

(in this discussion, the "Conditional distance" is how far from an FCC quarterly exam point you had to live in order to get a license by mail. Distances cited are "air-line" distances, not driving distances)

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About 1964 the FCC increased the Conditional distance to 175 miles and increased the number of exam points. Almost none of CONUS was Conditional country after that change.
>
> >You are correct that "weeder" tests can't be 100% effective. �But if

you
> >think that they don't have an impact, then why test at all?
>
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> Relevant tests keep failures out for a *good reason*.

A weeder test can be relevant. And given the number of amateurs actually using Morse Code on the air, it's a relevant test for an amateur radio license.

> > Although Psychology is a fascinating study, there are aspects...

> I was being funny with the psychology testing thing. I didn't think
> you'd really take me seriously.

In a way, a big part of the testing is psychological. If we could trust everyone to learn the technology, operating practices, rules and regs as needed, there'd be no need for a test. By testing, we make people prove they actually learned a few things, even though the testing is far from comprehensive and doesn't test if the person understands the material. But having observed what happens when people are trusted to learn on their own, (cb as one example), testing seems to be a good idea.

73 de Jim, N2EY

Psychology has to do with everything pertaining to human behavior.

Back in my creative writing days, I wrote a research paper on peasant rebellions at the height of the Rodney King beating riots.

In a study of numerous uprisings, rebellions, disturbances and other civil unrest in old times, the conclusion was that the masses indeed require authority and pressure in order to avoid self-destruction. It was found time and again, that these disturbances were most often due to issues of poor morale reinforced within the affected group rather than a righteous rising up against persecution, exploitation or to redress some wrong. Most often the victims were random targets of widespread violent outbursts during these disturbances rather than any defined enemy. Essentially, the Devil has his day. This mentality also carries over to individuals, where perceived pressure or persecution results in school shootings and things like that, where the self-destructive urge is externalized to random targets, or targets of opportunity, rather than a defined enemy. So I suspect this is known to others who can incite such behavior simply by fomenting dissension or planting seeds of discontent, then backing off to watch the outcome in complete safety, thus using crowd and individual Psychology to promote terrorism and destruction as a means to some end.

The whole problem with instituting and maintaining authority though, it how to keep it on the righteous path. In the final analysis, God is the only hope, but only if we spread the word.

```
From 7660358914195102511
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r66g2000hsg.googlegroups.com!not-for-
mail
From: tyreemand@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
running,rec.scouting.issues
Subject: Filthy Pink Sneakers. By Marina Cooper
Date: Wed, 24 Sep 2008 10:33:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 5
Message-ID: <416c7efd-bc03-4bf7-8d4a-5a503eca0f7d@r66g2000hsg.googlegroups.com>
NNTP-Posting-Host: 92.112.146.209
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1222277585 12856 127.0.0.1 (24 Sep 2008 17:33:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 24 Sep 2008 17:33:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r66g2000hsg.googlegroups.com; posting-host=92.112.146.209;
     posting-account=8N4mVgoAAABmLLkJQvSeZsuS_r9oM6nG
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:2996
rec.radio.amateur.homebrew:3259 rec.radio.amateur.misc:9079 rec.running:23178
rec.scouting.issues:3808

SEXY story. The cute doorman gives me an enigmatic look when I say I'm
here to see you. I am not sure if maybe he thinks I am your daughter.
You are not quite old enough for that, I am not quite young enough -
but we are pretty close. Am I wrong for thinking that's hot?
Definitely. I think...  http://ragdai.info/sex-story.html


From 1242001992071596733
X-Google-Thread: 10c2ee,d01f3c86d4b73fd
X-Google-Thread: fc2a5,d01f3c86d4b73fd
X-Google-Thread: 1131b0,d01f3c86d4b73fd
X-Google-Attributes: gid10c2ee,gidfc2a5,gid1131b0,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!feeder.news-service.com!tudelft.nl!txtfeed1.tudelft.nl!
news1.tudelft.nl!not-for-mail
From: maarten@panic.xx.tudelft.nl
Subject: Re: Mallory date code ?
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,sci.electronics.repair
References: <xbUBk.1988$eb4.1400@flpi147.ffdc.sbc.com>
```

<jrmgd49pfv6aeolpo4ruv4sunfcqjbts7e@4ax.com> <G8-
dnT6szvI68UTVnZ2dnUVZ_tTinZ2d@insightbb.com>
<4psjd4lt019nlqvcu9qo9kc93lkdkn3fmn@4ax.com> <gbd7k6$7ec$2@aioe.org>
<byrnsj-3C12B8.07313424092008@newsclstr03.news.prodigy.net>
<gbdkji$v4m$1@aioe.org> <byrnsj-
E46889.11483324092008@newsclstr03.news.prodigy.net>
Organization: TIN unltd.
User-Agent: tin/1.5.12-20020311 ("Toxicity") (UNIX) (Linux/2.4.27 (i686))
Message-ID: <9c8ef$48da7e30$d4549fe0$19473@news1.tudelft.nl>
X-Complaints-To: sysadmin@tudelft.nl
Date: Wed, 24 Sep 2008 19:51:44 +0200
Lines: 15
NNTP-Posting-Host: ftth-212-84-159-224.solcon.nl (212.84.159.224)
NNTP-Posting-Date: Wed, 24 Sep 2008 19:51:44 +0200
X-Trace: 9c8ef48da7e3071f13a4519473
Xref: g2news2.google.com rec.antiques.radio+phono:33034
rec.radio.amateur.homebrew:3260 sci.electronics.repair:35285

In rec.antiques.radio+phono John Byrns <byrnsj@sbcglobal.net> wrote:
> I wonder if the "K" might not have another meaning, such as a code to indicate
> which of several factories the device was produced in? If that is the case, the
> fact that "K" is the last letter in "week" might just be a coincidence.

I'm pretty sure it is a coincidence. I have only ever seen such indication
on some Philips equipment where the letters KW (kalenderweek,
kalenderwoche) are printed in front of a 3 or 4 digit code. Every single
other piece of equipment I ever saw with such a code only has letters with
another meaning in front of or after the date code.

--
Met vriendelijke groet,

Maarten Bakker.

From -2771268787158331344
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
newsfeed.straub-nv.de!news.k-dsl.de!aioe.org!not-for-mail
From: Syl <syl@someplace.com>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Mallory date code ?
Date: Wed, 24 Sep 2008 16:11:04 -0400
Organization: Aioe.org NNTP Server
Lines: 39
Message-ID: <gbe6sp$b4i$1@aioe.org>
References: <xbUBk.1988$eb4.1400@flpi147.ffdc.sbc.com>
<jrmgd49pfv6aeolpo4ruv4sunfcqjbts7e@4ax.com> <G8-
dnT6szvI68UTVnZ2dnUVZ_tTinZ2d@insightbb.com>
<4psjd4lt019nlqvcu9qo9kc93lkdkn3fmn@4ax.com> <gbd7k6$7ec$2@aioe.org>
<byrnsj-3C12B8.07313424092008@newsclstr03.news.prodigy.net>
<gbdkji$v4m$1@aioe.org> <byrnsj-

```
E46889.11483324092008@newsclstr03.news.prodigy.net>
NNTP-Posting-Host: DmtMlWEWuWUujzgf4M+S6g.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@aioe.org
User-Agent: Thunderbird 2.0.0.16 (X11/20080724)
Xref: g2news2.google.com rec.antiques.radio+phono:33036
rec.radio.amateur.homebrew:3261 sci.electronics.repair:35288

John Byrns a �crit :
> In article <gbdkji$v4m$1@aioe.org>, Syl <syl@someplace.com> wrote:
>
>> John Byrns wrote:
>>> In article <gbd7k6$7ec$2@aioe.org>, Syl <syl@someplace.com> wrote:
>>>
>>>> Franc Zabkar a �crit :
>>>>> On Tue, 23 Sep 2008 18:24:47 -0400, "hifi-tek"
>>>>> <t.hoehler@insightbb.com> put finger to keyboard and composed:
>>>>>
>>>>>>> I'd say that 8112 is a YYWW date code.
>>>>>> It is a YYMM date code.
>>>>> Then how do you account for the "32" in "235-8532K"?
>>>> It IS YYWW (that is year and week)
>>>> so....235-8532 means 1985, 32nd week. That is why the K is there...
>>> I agree that it is YYWW, but I don't understand what you are saying the
>>> reason
>>> is that the "K" is there?  Why is the "K" there?
>> weeK, to avoid any possible confusion to the date format used.
>
> That's where I figured you were headed with the "K", but typically the YYWW date
> code, as used on semiconductors for example, is used without a format indicator,
> in fact IIRC some versions of the YYWW date code scramble the digits in one way
> or another to obscure their meaning.
>
> I wonder if the "K" might not have another meaning, such as a code to indicate
> which of several factories the device was produced in?  If that is the case, the
> fact that "K" is the last letter in "week" might just be a coincidence.
>

Could well be but so far only found K and was told so.

I was also told the first 3 digits where the factory ID,
can anyone confirm this?

Q: to OP. What country of origin is the cap from?
Could it be a code for country of origin? Like Canada, US...

Syl


From -6044194011419693800
X-Google-Thread: fc2a5,e69d33ee065dd08a
```

```
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!26g2000hsk.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Wed, 24 Sep 2008 17:13:25 -0700 (PDT)
Organization: http://groups.google.com
Lines: 34
Message-ID: <8be50072-fec8-4449-846e-7b80e17f3712@26g2000hsk.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
     <ca9b70ed-a605-48d1-a879-e3b969422238@s50g2000hsb.googlegroups.com>
     <Xns9B1764CBF94AE2MDWN@194.177.96.78> <443b04c6-c18f-43b2-
b709-871b0aae3cbb@k37g2000hsf.googlegroups.com>
     <Xns9B17D3EB150302MDWN@194.177.96.78> <e6f6b189-
dbe1-43a8-8307-9ad29d4ba560@m44g2000hsc.googlegroups.com>
     <Xns9B19AC552493D2MDWN@194.177.96.78>
<864a548a-00dd-433a-95a5-3bde58880214@34g2000hsh.googlegroups.com>
     <68d71c04-d7f5-4708-a719-624679f150b6@25g2000hsx.googlegroups.com>
     <yNydnVrnzd1sDlPVnZ2dnUVZ8j2dnZ2d@pipex.net> <18216228-3c5a-4cf2-ac38-
ea577aff8f6d@a70g2000hsh.googlegroups.com>
     <48cea46f$1_4@mk-nntp-2.news.uk.tiscali.com>
<dZKdnd86R5fnLFPVnZ2dneKdnZydnZ2d@pipex.net>
     <d2624156-5f70-4a0e-a422-5c6a6502a723@m44g2000hsc.googlegroups.com>
     <Xns9B205C386C5F02MDWN@194.177.96.78>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1222301605 23576 127.0.0.1 (25 Sep 2008 00:13:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 25 Sep 2008 00:13:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 26g2000hsk.googlegroups.com; posting-host=204.108.8.5;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3262

On Sep 21, 10:03=A0am, Grumpy The Mule <s_foo...@foo.bar> wrote:
> The designer of this power supply did something very wrong.
> Using the safety/chassis ground as a power connection to
> run 120V loads is dangerous. =A0If you need to power 120V
> loads run a neutral line or use a 240/120 transformer.
>
> Safety ground should only be connected to the chassis,
> faraday screens and Y-rated capacitors.
>
> Neutral and safety ground eventually tie together so
> it seems like an OK thing. =A0It's not. =A0It's a violation
> of the NEC, any applicable safety standards and might
```

> on the off chance cause serious injury or death.
>
>
>
> > =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D>http://www.realhamradio.com/=
hvreg.pdf- Hide quoted text -
>
> - Show quoted text -

I never saw where the neutral and ground tied together. The closest
thing I could see was on the HV side of the transformer where one side
is tied to ground. This is OK. I did find in another service manual
where it warned about not having the mounting screws to the power
supply fastened tightly while servicing. Thats almost funny. Probably
a good idea to use this on a GFCI circuit.

Anyway I came across some 120/240 to 240/480 volt 2KVA transformers I
had. This got me thinking that it may be at lot of fun building a
switcher when you had 600VDC at a few amps to switch. Coming up with a
transformer may be fun.

Jimmie

From 5449866503017582899
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 24 Sep 2008 20:00:54 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Wed, 24 Sep 2008 18:00:55 -0700
Message-ID: <vllld45sr8bo8rui8f2ur8967p2tpemd9h@4ax.com>
References: <06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com>
<MtFBk.650$8v5.418@trnddc01> <a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com>
<KyQBk.553$Jw.18@nwrddc02.gnilink.net>
<p5pfd4lu68ktebb75e1aot4ltv2osci2di@4ax.com>
<R5VBk.727$MN3.244@nwrddc01.gnilink.net>
<k4cgd4d5mdbihnf0k3agvkovegpp77sa7h@4ax.com>
<ddZBk.828$MN3.308@nwrddc01.gnilink.net>
<utpgd4l53kl4gqfn99jh9cj41jm1eck7b9@4ax.com> <47664bc1-
cd38-4f89-87eb-6f4c8cad87be@s50g2000hsb.googlegroups.com>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 25
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-axKAD2oj6GMBJUMfDEYmUy1hl9qqqqTRN1k9FqrfztAKsRpXkRij3LW60/

lPKEGmtok0rw7O4+qm/Qi!
3oGs8CW+sjnp9C41RoohA5NoPhdux9IeWoI3a78hxiXhso2Mlrg3PSgUtPwPg87KaElnxMTn
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3263

N2EY@aol.com wrote:

>A weeder test can be relevant.

The trouble seems to be that we have different ideas of what a "weeder test" means. I could find no specific definition in any reference material, so I'll just no longer use the phrase.

Simply put, there is no reason for a code test in the modern world. If someone wants to use CW he simply learns it or fires up his computer. There once were valid reasons to learn the code, but they haven't existed for decades. That the code test survived so long was simply ham politics.

>By testing, we make people prove they actually learned a few things...

When an 8 year old child can pass the Extra exam, I think you can safely say that it can be passed without *knowing* the electronics theory that it pretends to test for.

>But having observed what happens when people
>are trusted to learn on their own, (cb as one example),

Darn, if only they had started out with a CB code test
all would be well now...

From 3699407488233958558
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!a1g2000hsb.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Thu, 25 Sep 2008 03:43:14 -0700 (PDT)
Organization: http://groups.google.com
Lines: 170
Message-ID: <13eb90fc-8a9f-4ef4-b1f3-68328fb1637a@a1g2000hsb.googlegroups.com>
References: <3qq3d4dfvig673vi45sjcpuqtdgnbeesun@4ax.com> <7487f40b-8dc0-4eb4-afbf-b3d0874d01d7@79g2000hsk.googlegroups.com>
<f6k5d4dvd5g8dqtt0ret8t16lmumdpcp7c@4ax.com> <25935aba-66a1-42fe-bb11-

```
cd29672917cd@x35g2000hsb.googlegroups.com>
     <33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-
ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
     <lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
     <06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com>
NNTP-Posting-Host: 205.188.117.200
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1222339394 15760 127.0.0.1 (25 Sep 2008 10:43:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 25 Sep 2008 10:43:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a1g2000hsb.googlegroups.com; posting-host=205.188.117.200;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
     98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-dtc-tb11.proxy.aol.com[CDBC702B] (Prism/1.2.1),
     HTTP/1.1 cache-dtc-ah08.proxy.aol.com[CDBC75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news2.google.com rec.radio.amateur.homebrew:3264
```

On Sep 21, 6:30=EF=BF=BDpm, AJ Lake <nom...@fakeaddress.com> wrote:
> N...@aol.com wrote:
> >AJ Lake <nom...@fakeaddress.com> wrote:
> >I do have a [treaty] source. [3 listed]
>
> But if the treaty had not required a code test for the 220 MHz Tech in
> the license change of 1951, do you think the hams of the day (both
> inside and outside the FCC) would have allowed a codeless ham to
> exist?

Maybe. Nobody really knows; the treaty in place at the time prevented
it.

> It would have been scary to even express those thoughts aloud
> in those days, considering what you hear now, 50+ years later...

Not at all. As early as 1936, there were ideas put forth for a
nocodetest amateur license in the pages of QST. (The 1936 idea was for
a basic 5 and 2-1/2 meter license that would allow a low-power local
communications without a code test).

But whenever the discussion came up, the overwhelming majority opposed
the idea.

> >> I haven't been an ARRL member since the dark days.
> >When were these "dark days"?
>
> Incentive Licensing. I have always voted with my wallet.

So for something done 40+ years ago, by folks who are mostly now dead, you still hold a grudge against the League. Interesting.

Oddly enough, btw, the League was not the only nor the first to propose a return to a more-progressive license structure in 1963. There were at least ten proposals, some submitted before ARRL's.

Ironically, the original 1963 ARRL proposal simply called for a return to the pre-1953 rules where you needed an Advanced or Extra to use 'phone on most of the HF ham bands.

btw, one of the driving forces behind the changes were letters received by FCC from *nonhams* complaining about the relative techical ignorance of many hams of the day. Those letters essentially said that while it used to be that a ham could be counted on to be reasonably qualified in technical and practical knowledge of radio, the early 1960s version could not. Don't know how true that was but it sure got FCC's attention.
>
> >The license is for operating, not building.
>
> The Technician was meant for those who were more interested in VHF/UHF
> experimentation than HF operating.

But only the kind of experimentation that requires operating. Anybody can build practically anything radio they want in their basement; the license is only needed to put it on the air.

The license is for operating, not building.

IMHO the social-engineering experiment of the Tech license just didn't work. The original Technician (220 and up only) got very few takers until 6 and 2 meters were added. This was due in large part to the fact that, at the time, there was no manufactured ham gear for 220 and up. And througout its history, most Techs have not been experimenters in the way that FCC envisioned.

What's worse is that the Tech license, even before it lost its code test, created a divide in amateur radio between those who had HF and those who didn't.
>
> >The basic argument against the code test comes down to this:
> >Why should anyone have to learn it if they don't intend to use it?
>
> I've heard that argument, but that's not why they quit the code test.

Yes, it is. It's what's behind every argument given to remove it. People who were going to use the mode don't care about a basic test of the mode at all, they just pass it and move on.

> The reasons for a code test that once applied are no longer valid.

Some of the reasons are no longer valid.

> No
> more military CW. No more ship to shore CW. No more WW2 ops needed.

Actually, Morse Code was in regular US military use long after WW2. At least into the late 1960s for the US Navy and into the late 1990s for the US Coast Guard. And there is still some use of Morse Code for maritime use. But very, very little.

More important, those reasons aren't the only ones, nor even the major ones, to have a code test. Even in the old days, most hams would never be military or commercial radio operators, so why require a code test for the few who would be?

The main reason to have a test for something to get a ham radio license is because *hams* do the thing, not because other radio services do the thing, or do not.

> Ect ect ect. CW is now really obsolete for anything but hobby use.

Did you see the article about the ham who was injured while hiking in the Pacific Northwest, and called for help using CW? Just happened a few days ago. Broken leg in a situation like that is a lot more than "nothing but hobby use".

> Making involuntary human modems has little value to the government any
> more.

Being a skilled radio operator isn't being "an involuntary human modem".

What's really changed is that the idea of needing "radio operators" at all. Look at what has happened to commercial licensing, for example.

> >What happens is that the argument, taken to its logical conclusion,
> >says there should be no real test at all.

> The ham test should be about *modern* technology.

Why? With most ham gear today, there is no real need to understand how the rig works in order to use it. Most have no real tune-up adjustments at all.

And who gets to decide what is "modern" anyway? Radio today is mostly VHF/UHF, not HF. It's mostly channelized, too, and highly automated. Most radios today don't even have a tuning knob!

> Testing about past
> obsolete technology and practices such as tubes, mechanical RTTY, and
> code ect just doesn't make sense.

Who decides what is "obsolete"?

Very few hams today use mechanical RTTY machines, so that technology isn't on the test. But the basic technology - FSK 5-level Baudot-coded RTTY - is still in wide use by hams, and is on the test.

Most hams nowadays only use tubes in high power RF amplifiers. A smaller number use tubes for other applications, including entire tube-based stations, but their number is relatively small. So there are only a few tube questions (if any) on the test.

But Morse Code is in wide use by hams on the ham bands. It's not "obsolete" at all. On the HF bands it is second only to SSB voice and is far ahead of many other modes in popularity.

Shouldn't a license to use an amateur station include tests on what amateurs actually do?

What really killed the code test, IMHO, is that a few people complained loud enough and long enough about it. And if you read their complaints, you see that what they're really saying is that they don't want to learn something they do not intend to use. Particularly something that requires some effort to learn, which cannot be learned by reading a book or watching a video.

I think what *really* burned some folks' bacon was that, since most people don't come to ham radio with Morse Code knowledge, it put all new hams on the same level in one way. The Ph.D and the big bucks businessman found themselves at the same table as the grade-schooler when it came to learning code. Worse, the grade-schooler might very well out-do them! Some folks do not like that kind of equality.

I still remember the reactions of some (not many) older, more-experienced hams when they found out I was a teenage Extra. It *really* bothered them!

73 de Jim, N2EY

From 730997494493913061
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 25 Sep 2008 11:11:26 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Thu, 25 Sep 2008 09:11:27 -0700
Message-ID: <todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com>
References: <f6k5d4dvd5g8dqtt0ret8t16lmumdpcp7c@4ax.com> <25935aba-66a1-42fe-bb11-cd29672917cd@x35g2000hsb.googlegroups.com>
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<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <13eb90fc-8a9f-4ef4-
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X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 41
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
n7NjSfHgHUGh6DBJcCwjM4v1n9sKrD3qRNw8TCcQrM0d0H8OGP2nTfyjwk1J4WQ4AZA8VMYNJOpFxxz!
1qzbI2ZXUHXeiE9POjfOIf5ImZBcfYz//+d3dSRgmjVC3/pYGzxACxKQ69La8R87xOho4SSb
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3265
```

N2EY@aol.com wrote:

>AJ Lake <nom...@fakeaddress.com> wrote:

>So for something done 40+ years ago, by folks who are mostly now dead,
>you still hold a grudge against the League. Interesting.

Voting with my wallet always makes me feel better. And just to make me
feel even better, I read QST for years at the bookstore for free....

>>The Technician was meant for those who were more interested in VHF/UHF
>>experimentation than HF operating.

>The license is for operating, not building.

I kind of set you up on that one. What you thought was my statement
was really your own statement. "The Technician was meant for those
who were more interested in VHF/UHF experimentation than HF
operating." is a direct quote from "The Past 50 Years of Amateur Radio
Licensing part 1" which *you* authored. So in those many paragraphs
you posted in reply, you were arguing with yourself... ;-)

>Being a skilled radio operator isn't being "an involuntary human modem".

Being a skilled radio operator in modern times does not require the
use of an ancient obsolete manual code.

>Who decides what is "obsolete"?

Obsolete is a subjective term. When an object finally becomes obsolete
most people can recognize it, and they upgrade to more modern
products. For example most people would agree that the 20+ tube 1950s

vintage TV set I watched as a kid is now quite obsolete. Likewise a
many tubed 1950s vintage shortwave receiver. Both would still work.
Both could still be used. But both are quite obsolete.

>I still remember the reactions of some (not many) older, more-
>experienced hams when they found out I was a teenage Extra. It
>*really* bothered them!

You misread them. They just didn't like a braggart...

From 3091852979594088629
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 25 Sep 2008 11:29:09 -0500
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <f6k5d4dvd5g8dqtt0ret8t16lmumdpcp7c@4ax.com> <25935aba-66a1-42fe-bb11-
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b1f3-68328fb1637a@a1g2000hsb.googlegroups.com>
<todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com>
Subject: Re: CW is a hobby (off topic BWTH)
Date: Thu, 25 Sep 2008 12:28:56 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <eNSdndRMcrfIIUbVnZ2dnUVZ_oninZ2d@comcast.com>
Lines: 19
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 98.243.145.110
X-Trace:
sv3-6GC5NXMeRnYoIna0DihKLcTypT9KoZKWap+CM+szYUkkW1gkx8aRgEH1dtQmTYEGltXQHCfBb7tL3c
8!eBtl8ftm7E27eIbZ4nI8peDOIe/1hJrFzWve3mSANVzqG8hwNVfNHsQerhemaUIa+RO7tx7N8i03!
nxCvTY35gs3PMTKVpqqcu4SEcwskSew=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:815

"AJ Lake" <nomail@fakeaddress.com> wrote in message
news:todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com...

> N2EY@aol.com wrote:
>
>>AJ Lake <nom...@fakeaddress.com> wrote:
>
>>So for something done 40+ years ago, by folks who are mostly now dead,
>>you still hold a grudge against the League. Interesting.
>
> Voting with my wallet always makes me feel better. And just to make me
> feel even better, I read QST for years at the bookstore for free....
>

Well you should have been kicked out of the bookstore. Most stores that I'm familiar with will let you thumb through material but will NOT let you stand there (or sit there) and read something.

```
From -3715811455892069836
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news3.google.com!fu-berlin.de!uni-
berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Thu, 25 Sep 2008 21:08:52 +0100
Organization: Bias Comms
Lines: 14
Message-ID: <6k29efF5pq3bU1@mid.individual.net>
References: <f6k5d4dvd5g8dqtt0ret8t16lmumdpcp7c@4ax.com> <25935aba-66a1-42fe-bb11-
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<33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-
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bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
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Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net TJx6VqN5+JgeO3d0MvDNiAskLCg3ivTIeX8pdqAbvysDoQu5Cs
Cancel-Lock: sha1:8Ycc7mjYP/dvv8y1TY4b1DlbtV0=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:816
```

AJ Lake wrote:

> Being a skilled radio operator in modern times does not require the
> use of an ancient obsolete manual code.
>
>>Who decides what is "obsolete"?
>
> Obsolete is a subjective term.

CW /certainly/ isn't obsolete! I can make QSOs with just a few Watts that you could only /dream/ of achieving with /Kilowatts/ - and it can only be done with CW!

Bob

```
From 6706508148464484121
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad.newshosting.com!newshosting.com!69.16.185.16.MISMATCH!
npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!
nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <f6k5d4dvd5g8dqtt0ret8t16lmumdpcp7c@4ax.com> <25935aba-66a1-42fe-bb11-
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<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
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<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <13eb90fc-8a9f-4ef4-
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<todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com> <6k29efF5pq3bU1@mid.individual.net>
Subject: Re: CW is a hobby (off topic BWTH)
Lines: 38
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <myTCk.1496$MN3.859@nwrddc01.gnilink.net>
Date: Thu, 25 Sep 2008 21:39:30 GMT
NNTP-Posting-Host: 71.104.213.132
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1222378770 71.104.213.132 (Thu, 25 Sep 2008 17:39:30
EDT)
```

NNTP-Posting-Date: Thu, 25 Sep 2008 17:39:30 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:817

"Bob" <biascomms@invalid.inv> wrote in message
news:6k29efF5pq3bU1@mid.individual.net...
> AJ Lake wrote:
>
> > Being a skilled radio operator in modern times does not require the
> > use of an ancient obsolete manual code.
> >
> >>Who decides what is "obsolete"?
> >
> > Obsolete is a subjective term.
>
> CW /certainly/ isn't obsolete! I can make QSOs with just a few Watts that
> you could only /dream/ of achieving with /Kilowatts/ - and it can only be
> done with CW!
>
> Bob

I find it calming and even kind of cool that I can walk around the house and follow a QSO in CW without having to carry a laptop and battery pack on my back to translate. I can even copy it easier than some people's voices with 5 times the power. But I can see how some might want everyone to think it's obsolete or even have us all executed for our insolence against the revolution!

What you have to realize, is that there are those "out there" who would consider HAM RADIO to be OBSOLETE because we don't pay for airtime.

The code test is no more! Viva La Revolucione! So now the war should be over!

So now life should go on. People should be allowed to use voice, or learn morse code, talk like computers, go have a sex change, jump off the Golden Gate bridge, run for president, or whatever they feel like as long as the taxpayer doesn't have to foot the bill.

From 3226624777078785191
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 25 Sep 2008 18:19:26 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: CW is a hobby (off topic BWTH)
Date: Thu, 25 Sep 2008 16:19:28 -0700
Message-ID: <hd5od4p66d4dcktp4nf11soua1dqo6029k@4ax.com>
References: <33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
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<todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com>
<eNSdndRMcrfIIUbVnZ2dnUVZ_oninZ2d@comcast.com>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 23
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-xs1FDzpXzEDWNr2kece1WQgJLKA5WDT5C8hqKj5QFWtJmtsC+iQFMk5CUE9oSRGwZ+qJs9HhdTM/FVy!Q79qB52ThYH0/PVgox0CugGeGUaPiLcrOxeHAjqGOg9lJIBlbXL37Emf/wrDJqu2LbWCB1Om
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:818

"Dee Flint" <deeflint01@comcast.net> wrote:

>Well you should have been kicked out of the bookstore. Most stores that I'm
>familiar with will let you thumb through material but will NOT let you stand
>there (or sit there) and read something.

The Barnes and Noble in my town actually provides chairs for you to sit and read magazines and books. Many of the chairs are overstuffed. I would say they have a different philosophy than your bookstores.

And I think B&N know what they are doing since I seldom leave there without buying at least $30 worth. More if the XYL is along.

My QST boycott is purely personal satisfaction, not financial.

My local ham store once complained that I was looking too long at the magazine rack. (It might have been a QST.) Over the years I had bought several $1000 in ham rigs. Being shortsighted has cost them thousands more in business since I still go there to look at the rigs, but now do my buying online .

Again I vote with my wallet, because it makes *me* feel better. I don't have any delusions that it really bothers the businesses.

From 3656949840980127155
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Fri, 26 Sep 2008 01:38:47 +0200 (CEST)
Organization: Mostly In Piles
Lines: 39
Message-ID: <Xns9B24BDB12F6522MDWN@194.177.96.78>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com> <ca9b70ed-a605-48d1-a879-e3b969422238@s50g2000hsb.googlegroups.com> <Xns9B1764CBF94AE2MDWN@194.177.96.78> <443b04c6-c18f-43b2-b709-871b0aae3cbb@k37g2000hsf.googlegroups.com> <Xns9B17D3EB150302MDWN@194.177.96.78> <e6f6b189-dbe1-43a8-8307-9ad29d4ba560@m44g2000hsc.googlegroups.com> <Xns9B19AC552493D2MDWN@194.177.96.78> <864a548a-00dd-433a-95a5-3bde58880214@34g2000hsh.googlegroups.com> <68d71c04-d7f5-4708-a719-624679f150b6@25g2000hsx.googlegroups.com> <yNydnVrnzd1sDlPVnZ2dnUVZ8j2dnZ2d@pipex.net> <18216228-3c5a-4cf2-ac38-ea577aff8f6d@a70g2000hsh.googlegroups.com> <48cea46f$1_4@mk-nntp-2.news.uk.tiscali.com> <dZKdnd86R5fnLFPVnZ2dneKdnZydnZ2d@pipex.net> <d2624156-5f70-4a0e-a422-5c6a6502a723@m44g2000hsc.googlegroups.com> <Xns9B205C386C5F02MDWN@194.177.96.78> <8be50072-fec8-4449-846e-7b80e17f3712@26g2000hsk.googlegroups.com>
NNTP-Posting-Host: 1kiWvrAdGxz47OmPjJjFmQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news1.google.com rec.radio.amateur.homebrew:819

I meant in this design...
http://www.realhamradio.com/hvreg.pdf

A safety ground connection is used for
120V loads because there's no neutral
taken from the AC line connection.

They should have used a four pole connector
and run a neutral as well as ground to the
power supply.

The ground and neutral are tied together
at your service entry.

You could connect two 120/240 transformers with
the primaries in parallel and the secondaries in
series. Then you'd have 480AC source which makes
a decent input to a doubler for about 1200VDC output.

There's nothing wrong with blood and thunder supplies
except the weight and the stored energy. If the parts
are available the cost factor might win out.

> I never saw where the neutral and ground tied together. The closest
> thing I could see was on the HV side of the transformer where one side
> is tied to ground. This is OK. I did find in another service manual
> where it warned about not having the mounting screws to the power
> supply fastened tightly while servicing. Thats almost funny. Probably
> a good idea to use this on a GFCI circuit.
>
> Anyway I came across some 120/240 to 240/480 volt 2KVA transformers I
> had. This got me thinking that it may be at lot of fun building a
> switcher when you had 600VDC at a few amps to switch. Coming up with a
> transformer may be fun.
>
> Jimmie
>

From 2750633504354302797
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 25 Sep 2008 21:36:51 -0500
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com> <lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com> <06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <13eb90fc-8a9f-4ef4-b1f3-68328fb1637a@a1g2000hsb.googlegroups.com> <todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com> <eNSdndRMcrfIIUbVnZ2dnUVZ_oninZ2d@comcast.com> <hd5od4p66d4dcktp4nf11soua1dqo6029k@4ax.com>
Subject: Re: CW is a hobby (off topic BWTH)
Date: Thu, 25 Sep 2008 22:36:38 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <PIGdnRn1IPhe10HVnZ2dnUVZ_uqdnZ2d@comcast.com>
Lines: 21
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NNTP-Posting-Host: 98.243.145.110
X-Trace: sv3-uq541zWS/

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GRU0oMXDd0RKKksxFP/LPhnzrZJ6mno=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3271


"AJ Lake" <nomail@fakeaddress.com> wrote in message
news:hd5od4p66d4dcktp4nf11soua1dqo6029k@4ax.com...
> "Dee Flint" <deeflint01@comcast.net> wrote:
>
>>Well you should have been kicked out of the bookstore.  Most stores that
>>I'm
>>familiar with will let you thumb through material but will NOT let you
>>stand
>>there (or sit there) and read something.
>
> The Barnes and Noble in my town actually provides chairs for you to
> sit and read magazines and books. Many of the chairs are overstuffed.
> I would say they have a different philosophy than your bookstores.
>

Even Barnes & Noble will object if you read an entire magazine or entire
book.  They are not a library but a business.  The chairs and atmosphere are
so you can SAMPLE the reading material not spend the day reading.




From -8484101217075019326
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
25g2000prz.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Thu, 25 Sep 2008 20:15:51 -0700 (PDT)
Organization: http://groups.google.com
Lines: 49
Message-ID: <47e93977-6d39-4023-9f66-7ec44501e88f@25g2000prz.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
     <443b04c6-c18f-43b2-b709-871b0aae3cbb@k37g2000hsf.googlegroups.com>
     <Xns9B17D3EB150302MDWN@194.177.96.78> <e6f6b189-
dbe1-43a8-8307-9ad29d4ba560@m44g2000hsc.googlegroups.com>
     <Xns9B19AC552493D2MDWN@194.177.96.78>
<864a548a-00dd-433a-95a5-3bde58880214@34g2000hsh.googlegroups.com>
```

```
     <68d71c04-d7f5-4708-a719-624679f150b6@25g2000hsx.googlegroups.com>
     <yNydnVrnzd1sDlPVnZ2dnUVZ8j2dnZ2d@pipex.net> <18216228-3c5a-4cf2-ac38-
ea577aff8f6d@a70g2000hsh.googlegroups.com>
     <48cea46f$1_4@mk-nntp-2.news.uk.tiscali.com>
<dZKdnd86R5fnLFPVnZ2dneKdnZydnZ2d@pipex.net>
     <d2624156-5f70-4a0e-a422-5c6a6502a723@m44g2000hsc.googlegroups.com>
     <Xns9B205C386C5F02MDWN@194.177.96.78> <8be50072-
fec8-4449-846e-7b80e17f3712@26g2000hsk.googlegroups.com>
     <Xns9B24BDB12F6522MDWN@194.177.96.78>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1222398951 11222 127.0.0.1 (26 Sep 2008 03:15:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Sep 2008 03:15:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 25g2000prz.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:821

On Sep 25, 7:38=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> I meant in this design...http://www.realhamradio.com/hvreg.pdf
>
> A safety ground connection is used for
> 120V loads because there's no neutral
> taken from the AC line connection.
>
> They should have used a four pole connector
> and run a neutral as well as ground to the
> power supply.
>
> The ground and neutral are tied together
> at your service entry.
>
> You could connect two 120/240 transformers with
> the primaries in parallel and the secondaries in
> series. =A0Then you'd have 480AC source which makes
> a decent input to a doubler for about 1200VDC output.
>
> There's nothing wrong with blood and thunder supplies
> except the weight and the stored energy. =A0If the parts
> are available the cost factor might win out.
>
>
>
> > I never saw where the neutral and ground tied together. The closest
> > thing I could see was on the HV side of the transformer where one side
> > is tied to ground. This is OK. I did find in another service manual
> > where it warned about not having the mounting screws to the power
```

> > supply fastened tightly while servicing. Thats almost funny. Probably
> > a good idea to use this on a GFCI circuit.
>
> > Anyway I came across some 120/240 to 240/480 volt 2KVA transformers I
> > had. This got me thinking that it may be at lot of fun building a
> > switcher when you had 600VDC at a few amps to switch. Coming up with a
> > transformer may be fun.
>
> > Jimmie- Hide quoted text -
>
> - Show quoted text -

I agree, I understand the commercial version of this has been
redesigned hopefully addressing some of the issues you mentioned.

I had given some thought to using the transformers as you discribe but
for right now my purpose is to learn abut and build a switching power
supply.

Jimmie

```
From -4569731263763142342
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 25 Sep 2008 23:28:15 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Thu, 25 Sep 2008 21:28:17 -0700
Message-ID: <vonod49c0ct1brj6q1rkrqujqn257ul180@4ax.com>
References: <97521a8a-60a9-491f-ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <13eb90fc-8a9f-4ef4-
b1f3-68328fb1637a@a1g2000hsb.googlegroups.com>
<todnd4pbd8a25pgphlq2r3mjnhc3d1tq4c@4ax.com>
<eNSdndRMcrfIIUbVnZ2dnUVZ_oninZ2d@comcast.com>
<hd5od4p66d4dcktp4nf11soua1dqo6029k@4ax.com>
<PIGdnRn1IPhe10HVnZ2dnUVZ_uqdnZ2d@comcast.com>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 15
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-nYaLvLfTJRiFaT7m3btR6T6ItOB5pIKPVZvmIDY67jIsYH/
HkeHaL6MJHfrblzOp8qQ1qUiFs77ujAL!
CWz0ZHBCaJ1hNHz2+7NGofQRP5qqsuMZ3Y2jtV+HyGhAhuzRWOxpGDRmVGHnBpcZ6fRZbHFV
```

X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3273

"Dee Flint" <deeflint01@comcast.net> wrote:

>They [B&N] are not a library but a business.

B&N is a very successful business. When they think the 'library'
chairs are losing them money, the chairs will be removed.

>The chairs and atmosphere are so you can SAMPLE the reading
>material not spend the day reading.

I *sampled* QST and *bought* another magazine or book. The bottom line
$$ for B&N was the same or more. Your tears are for the wrong entity.
B&N made money because I was drawn to their 'free sample' QST
magazine. QST is the one who lost money, but then that's what voting
with your wallet is all about...

From 4167061979788173454
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!eweka.nl!lightspeed.eweka.nl!news.netcologne.de!newsfeed-fusi2.netcologne.de!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Fri, 19 Sep 2008 02:56:59 +0200 (CEST)
Organization: Mostly In Piles
Lines: 66
Message-ID: <Xns9B1DCAF1753AB2MDWN@194.177.96.78>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
<443b04c6-c18f-43b2-b709-871b0aae3cbb@k37g2000hsf.googlegroups.com>
<Xns9B17D3EB150302MDWN@194.177.96.78> <e6f6b189-dbe1-43a8-8307-9ad29d4ba560@m44g2000hsc.googlegroups.com>
<Xns9B19AC552493D2MDWN@194.177.96.78>
<864a548a-00dd-433a-95a5-3bde58880214@34g2000hsh.googlegroups.com> <68d71c04-d7f5-4708-a719-624679f150b6@25g2000hsx.googlegroups.com>
<yNydnVrnzd1sDlPVnZ2dnUVZ8j2dnZ2d@pipex.net> <18216228-3c5a-4cf2-ac38-ea577aff8f6d@a70g2000hsh.googlegroups.com> <48cea46f$1_4@mk-nntp-2.news.uk.tiscali.com> <Xns9B1AC2F4DC19E2MDWN@194.177.96.78>
<5b80758c-9cd7-4421-8ebf-8be8e4152e2e@m44g2000hsc.googlegroups.com>
<Xns9B1BC3E20812MDWN@194.177.96.78> <15df1803-fd58-45cc-9d37-c7fa86fdb81d@x35g2000hsb.googlegroups.com> <Xns9B1CC132340012MDWN@194.177.96.78>
<12ccce41-e9ea-4526-b293-49d9beb9349f@z66g2000hsc.googlegroups.com>

NNTP-Posting-Host: v5/dzHakT4qbtXi8VmuPOA.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news2.google.com rec.radio.amateur.homebrew:3173

Short answer, IGBTs are much better but not as good as MOSFETs.
In many cases they're good enough that the turn-off tail can be
ignored with very minor accommodation if any. In some cases an
IGBT may be superior than a MOSFET because you don't have to worry
about the switches RDSon drifting apart with temperature.

Though now days you can buy a 75V 120A 0.0004 Ohm MOSFET in a
T0-220 package... I guess RDSon isn't much of an issue.

The main problem with both IGBT and regular old bipolar transistors
in a push-pull circuit is the turn-off tail. The MOSFET does not
have a turn-off tail. There are two classes of IGBT, punch-though
and non-punch through. The punch-trough devices have better turn-off
times but are more fragile. Lately I've been using Trench Field Stop
IGBT's and they're very good.

There are several means of preventing imbalance of the transformer
in driven (not self oscillating) converters. The PWM will adjust
the on-time to compensate for the tail as it regulates the output
voltage. You can sense the differences with a circuit that converts
time to voltage (a capacitor and a current source) then make the
correction.

There are clever flux balancing windings that can be added. One
Unitrode app note describes how this can be done in the course of
presenting a half-bridge power converter. I can't recall the
document number.

In the half bridge and full bridge sometimes a capacitor in series
with the primary wdinding prevents saturation. I think you could
build a two capacitor divider across the input voltage and at the
center connect your transformer centertap lead. Then as the
imbalance increases the voltage at the center tap with shift
to compensate for it. I've seen half bridges built this way...
might work for a push pull... just guessing as I've never tried it.

A very small gap (0.001-0.003") will prevent saturation if the
imbalance is minor and not decrease the magnetizing inductance
too much. Sometimes any decrease is unwelcome though.
A distributed gap material like powdered-iron, koolmu, MPP
or sendust, might be useful if you expect to have flux imbalance
problems.

Pulse by pulse current limiting will mask the problem, so the
transformer is in saturation but not far into it and the current
limit keeps it from destroying the switches. Kinda risky to rely

on this alone but it's helpful combined with other measures.

In a current fed converter the transformer may saturate and then
switches are effectively connected directly to the current source.
No harm done! A current fed push-pull is a rugged topology. The
VAX8800 computer uses one for its control and start-up power supply.

> I was reading up on push-pull topology of switching power supplies
> and see that they have problems with flux imbalance. I used to work on
> some power supplies that were push pull when I was in the USAF and the
> driver transistors were always failing, now I know why. I see that
> this isnt as much of a problem for FETs, How about IGBTs.
>
>
> Jimmie
>

From 7459041853169053829
X-Google-Thread: fc2a5,1a70b767cd70bc46
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews6.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
<LZiAk.29033$IB6.9166@bignews8.bellsouth.net> <6je7b6F2rhscU1@mid.individual.net>
In-Reply-To: <6je7b6F2rhscU1@mid.individual.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 39
Message-ID: <RTDAk.37908$vX2.17185@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcbogeijnnagmbbieepklllbpipikkjbbjchlp
almnbiohpcjbcifbldbnnmanllnjmaiifpgghlmijcaappkgpmknbmgkmckdkgaeemjjnagdfafjfd
NNTP-Posting-Date: Thu, 18 Sep 2008 22:12:01 EDT
Organization: BellSouth Internet Group
Date: Thu, 18 Sep 2008 22:13:34 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:3174

Bob wrote:
> ken scharf wrote:
>

>> Early SSB exciters used the 7360 tube as a mixer / vfo so I know this
>> type of tube will work as a self excited converter. As far as pulling
>> is concerned this would depend on the difference between the oscillator
>> and IF frequencies, or the oscillator and signal frequencies. But
>> pulling shouldn't be any worse than with the pentode mixers that
>> coupled the oscillator to the same grid as the signal input. At least
>> the 7360 isolates the signal and oscillator to different electrodes.
>> Also the signal input is balanced and shielded by the screen grid.
>> OTHO I don't know how good (stable) an oscillator this tube is.
>> Probably better as a crystal oscillator than a vfo.
>
> The very /best/ mixer I ever made used the 7360.
>
> I tried several other types of valve ("tube" - U.S.) mixer, but /nothing/
> came even slightly close. The isolation of the local oscillator from the
> incoming signal, the conversion gain, the accuracy of balance and the
> bomb-proof nature of the mixer made it superior to /anything/ else I've
> ever tried. In my receiver, there's a font-end amplifier, using a
> variable-mu pentode then the 7360. It handles a bigger dynamic range
> than /any/ other mixer.
>
> The VFO is a "Kallitron" type, using two FETs and a PIC-based huff-and-puff
> stabiliser (in 10 Hz steps) and two bipolar buffer amplifiers to drive the
> grids of the 7360. The PIC also drives an LCD display of frequency, and
> frequency stability is spectacular.
>
> I can assure you - /there/ /is/ /no/ /substitute/ for the 7360. Simply
> don't consider /anything/ else. Professionally, I've worked extensively
> on "H-mode" switched mixers - often using very advanced components - and
> can tell you that the 7360 out-performs /everything/ else!
>
> Chris
>
Sounds like you're building a receiver with only one tube in it (a 7360)
and everything else solid state. Then again the 7360 probably makes a
very good product detector too.

From 6941448558107948786
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!x35g2000hsb.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Thu, 18 Sep 2008 19:20:59 -0700 (PDT)
Organization: http://groups.google.com
Lines: 120
Message-ID: <25935aba-66a1-42fe-bb11-cd29672917cd@x35g2000hsb.googlegroups.com>
References: <g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
<qMgzk.34534$vX2.2733@bignews6.bellsouth.net>

```
     <1igrc41dls8pj2jrejt44dpq4h4qdi0o6r@4ax.com> <6bc7995e-2385-450e-9492-
a210ed34ac4a@p25g2000hsf.googlegroups.com>
     <8d63d4ds7fua0i8ebubv8ebckt4fu6f1mn@4ax.com> <7efe49af-
de7a-449d-8269-2acfd4e3afd4@x41g2000hsb.googlegroups.com>
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NNTP-Posting-Host: 64.12.117.200
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1221790859 3635 127.0.0.1 (19 Sep 2008 02:20:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 19 Sep 2008 02:20:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x35g2000hsb.googlegroups.com; posting-host=64.12.117.200;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
     98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-mtc-tb08.proxy.aol.com[400C7028] (Prism/1.2.1),
     HTTP/1.1 cache-mtc-ah08.proxy.aol.com[400C75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news2.google.com rec.radio.amateur.homebrew:3175
```

On Sep 18, 7:30=EF=BF=BDpm, AJ Lake <nom...@fakeaddress.com> wrote:
> N...@aol.com wrote:
> >Had there not been a treaty requirement, FCC might have not had a
> >Morse test for Tech from the beginning.
>
> The treaty applied to 30MHz and below.

No, it applied to 1000 MHz and below, back when the Technician was created.

Originally the treaty required Morse Code testing for all amateurs. Then in the late 1940s (1947 Atlantic City conference, IIRC), additional wording was added that removed the requirement for licenses that only allowed operation above 1000 MHz.

Over time that 1000 MHz limit was lowered, until it finally reached 30 MHz. And then in 2003 the whole code test thing was made optional.

> Techs couldn't go there.
> The treaty wouldn't apply to them.

The treaty in effect in 1951 applied to them.

> >A lot of VHF/UHF experimenting in those days did use
> > Morse Code
>
> Techs only had 220 and up. Why require a 5 WPM test for moon > bounce??

What mode would a 1950s or 1960s ham use for moonbounce? Aurora?

Meteor or tropo scatter? Satellite comms?
>
> >and still does today. EME (moonbounce), meteor scatter, aurora,
> >troposcatter and other "weak signal" work was almost all CW.
>
> If Techs do all that CW work today *without* a code test, what
> justification
> is there for requiring the code test back then?

1) The treaty
2) Those modes were new back then.

The big question is, how many Techs actually did that stuff?

> >Was it [incentive licensing] really a screw up?
> >I think the real mistake was back in 1952.
>
> My old boss used to moan bitterly about the 52 license change
> when I worked
> for him in the 50s. He had been a Class A.

And he still was, only they called it Advanced and it made no
difference in privileges.

> But the difference is that in
> that change he *didn't lose* any privileges.

Instead, a lot of hams got them for free.

> He did lose privileges with the
> later Incentive Licensing change though. Which change do
> you think he felt
> worse about?

Sounds like a sense of entitlement to me.
>
> >You can just imagine the reaction from hams who'd worked hard > > to get
> >their Advanceds or Extras, then suddenly found the HF 'phone
> >bands
> >flooded with Generals and Conditionals who had the same privileges.
>
> Probably like having the HF frequencies flooded by no-coders... 8-O

No, much worse.

The FCC has been reducing license requirements for almost 30 years, so
the final dropping of the code test should have been no surprise for
anyone. In fact I am still amazed that it took FCC 3-1/2 years to do
it after the treaty changed. I figured six months, tops.

But in the late 1940s the FCC went through a long process of
developing a new license structure that was a lot more complex than
the old ABC system. And when they rolled it out, one of the big

features was that the all-privileges license would be harder to get.

Then at the last minute they tossed away most of the idea and went in a completely different direction.

> >Another incentive would be increased power.
>
> If I were made boss, the maximum power allowed for any class
> would be 100W.
> And if used as an incentive, start at say 25 W for the entry
> license.

How's anybody gonna work EME with that?

> Just
> think of the reduction in neighbor complaints. Just think of the
> increase in operator skill...

But to do it you'd have to take privileges away from almost every ham. Worse, they could not get those privileges back.

You'd also make a lot of expensive gear practically worthless.

> >Who will be the very last Novice? The very last Advanced? How long
> >will it take for those license classes to disappear?
>
> They will likely disappear when they change to one license...
> (Like the Class A disappeared.)

But the Class A didn't disappear.

In the 1951 restructuring, it was renamed "Advanced", and survives to this day. When it was first closed to new issues at the end of 1952, FCC still kept it on the books. That made a big difference in 1968 and 1969 when the IL changes happened, because Advanceds had a lot more 'phone space than Generals after those changes.

73 de Jim, N2EY

From 1501316314544101495
X-Google-Thread: fc2a5,1a70b767cd70bc46
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???

References: <gVXzk.12264$rV4.5187@newsfe03.iad>
<LZiAk.29033$IB6.9166@bignews8.bellsouth.net> <6je7b6F2rhscU1@mid.individual.net>
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Content-Transfer-Encoding: 7bit
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X-Complaints-To: abuse@bellsouth.net
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X-Trace:
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Organization: BellSouth Internet Group
Date: Thu, 18 Sep 2008 22:22:51 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:3176

Bob wrote:
> ken scharf wrote:
>
>> Early SSB exciters used the 7360 tube as a mixer / vfo so I know this
>> type of tube will work as a self excited converter. As far as pulling
>> is concerned this would depend on the difference between the oscillator
>> and IF frequencies, or the oscillator and signal frequencies. But
>> pulling shouldn't be any worse than with the pentode mixers that
>> coupled the oscillator to the same grid as the signal input. At least
>> the 7360 isolates the signal and oscillator to different electrodes.
>> Also the signal input is balanced and shielded by the screen grid.
>> OTHO I don't know how good (stable) an oscillator this tube is.
>> Probably better as a crystal oscillator than a vfo.
>
> The very /best/ mixer I ever made used the 7360.
>
> I tried several other types of valve ("tube" - U.S.) mixer, but /nothing/
> came even slightly close. The isolation of the local oscillator from the
> incoming signal, the conversion gain, the accuracy of balance and the
> bomb-proof nature of the mixer made it superior to /anything/ else I've
> ever tried. In my receiver, there's a font-end amplifier, using a
> variable-mu pentode then the 7360. It handles a bigger dynamic range
> than /any/ other mixer.
>
> The VFO is a "Kallitron" type, using two FETs and a PIC-based huff-and-puff
> stabiliser (in 10 Hz steps) and two bipolar buffer amplifiers to drive the
> grids of the 7360. The PIC also drives an LCD display of frequency, and
> frequency stability is spectacular.
>
> I can assure you - /there/ /is/ /no/ /substitute/ for the 7360. Simply
> don't consider /anything/ else. Professionally, I've worked extensively
> on "H-mode" switched mixers - often using very advanced components - and
> can tell you that the 7360 out-performs /everything/ else!
>
> Chris
>

The very first ARRL HB I ever owned (1967) used the 7360 in the mixer stage of a classic receiver (HB67) as well as another design (junior misers dream). The first receiver was an 80 meter single conversion set with a crystal controlled converter ahead of it. Similar commerical designs were the HA350 and the 2B. The HB67 used a 6D10 compactron as the first mixer/oscillator in the converter section. The MMD receiver had the 7360 in the front end (NO RF stage) with a first IF of 3300 KHZ. An RF Q multiplier was used instead of the RF stage. As you mentioned the oscillator injected into the deflection plates in both cases

```
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NNTP-Posting-Date: Thu, 18 Sep 2008 23:01:01 -0500
Date: Fri, 19 Sep 2008 04:01:00 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
References: <g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
<qMgzk.34534$vX2.2733@bignews6.bellsouth.net>
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3177
```

N2EY@aol.com wrote:

>
> In the 1951 restructuring, it was renamed "Advanced", and survives to
> this day. When it was first closed to new issues at the end of 1952,
> FCC still kept it on the books. That made a big difference in 1968 and
> 1969 when the IL changes happened, because Advanceds had a lot more
> 'phone space than Generals after those changes.
>
> 73 de Jim, N2EY

This is probably what you mean but no new Advanced Class licenses are
issued any more. If you have one, you can renew indefinitely, but no
more new ones.

Scott
Used ta be an Advanced Class
N0EDV

```
From 4367710799189047206
X-Google-Thread: fc2a5,1a70b767cd70bc46
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers??  Opinions???
Date: Fri, 19 Sep 2008 08:33:34 +0100
Organization: Bias Comms
Lines: 18
Message-ID: <6jh2ueF3ab47U3@mid.individual.net>
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
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<RTDAk.37908$vX2.17185@bignews6.bellsouth.net>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:727
```

ken scharf wrote:

> Sounds like you're building a receiver with only one tube in it (a 7360)
> and everything else solid state. Then again the 7360 probably makes a
> very good product detector too.

No - the RF amplifier stage is a variable mu pentode, and there are more variable mu valves used in the IF, another 7360 for the product detector, and the rest is solid state. The hybrid approach seemed best - for example, the variable current drawn by the audio stages is /entirely/ isolated from the IF supply, the front end supply and the local oscillator supply. At the moment, it's a single conversion superhet, with a 10.7 MHz IF (because I have 10.7 MHz filters), though I'm considering making it dual conversion, with a very high first IF, to improve the inherent image problems.

C.

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From: "Rich Klestinez" <replytogroup@noplace.cc>
Newsgroups: rec.radio.amateur.homebrew
References: <722a1a37-0b4b-461a-b3fa-771fd8b741e7@c65g2000hsa.googlegroups.com> <SFaAk.13293$Dj1.836@newsfe01.iad> <40a6512b-bb19-46a0-a3a7-71bdedef18e0@b1g2000hsg.googlegroups.com>
Subject: Re: out-of-phase sides in a push-pull switchmode RF amp
Lines: 83
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <phLAk.13411$wr1.1483@newsfe02.iad>
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NNTP-Posting-Date: Fri, 19 Sep 2008 10:37:09 UTC
Date: Thu, 18 Sep 2008 10:08:05 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:3179

"spamhog" <n1jpr@hotmail.com> wrote in message news:40a6512b-bb19-46a0-a3a7-71bdedef18e0@b1g2000hsg.googlegroups.com...
Thanks Rich!

On Sep 17, 4:55 pm, "Rich Klestinez" <replytogr...@noplace.cc> wrote:
>> I would not go through the trouble of unbalancing the transformer

I didn't mean to... The idea was to generate two symmetrical and opposed signals by putting an un-bal transformer between the VXO and a first push-pull stage made with just two sections, charged with rebuilding near-square waveforms.

I matched neither driver sections nor MOSFETs,but I did hear that both can be a bit variable. Apparently the chip drivers are normally used without equalization (to the surprise of quite a few authours). As for MOSFETs, I saw several amp designs with a single separate bias trimmer, or with a single special driver chip, for several devices. I have separate trimmers, I didn't bother to check if the 1-mA voltage was the same for both - but I will. That may have helped equalize the switching point in terms of RF voltage. As for the different on-state resistance, I guess it's more critical if one has devices in parallel - in a push-pull a particuarly low resistance device won't hog the current.

>> One other thing comes to mind is that with a torrid core at high current
>> and a high frequency, then symmetry of the winding itself is critical.

Yes, I've been extremely careful. Winding is trifilar, twisted, I took care to have symmetrical twist pitch and winding spacing.

>> torrid core

Torrid indeed. Now I have a tiny .82 core and thin wire too. At normal duty cycle all is fine, after 120s keydown one risks minor burns - but the MOSFETs barely get warm.

Coincidentally, I just got several 10s of feet of Raychem "high performance" wire after helping assemble a prototype 4-fuel car (3 liquid fuels + plugin recharger). 1.5sqmm, silver plated stranded copper alloy, thin 600V radiation-crosslinked high temperature insulator. I've been verbally told the 1/2sqmm variety can carry 30A (I asked as I worried it would not bear 3.5). I will try it on a larger core. I already recovered the ferrite of a 1-kW Hi Gain balun, but I want to see detailed wire specs first. Once stripped, this wire should do well in hi-Q coils too.

Awsome but really good wire!

If the Fet's are just barely warm it is my guess that you are driving them well into saturation and that good. As far as the core getting that hot, well that's not so good.
I digress. Some years back (70's) I tried to model the BH vs temperature of some high power cores that I was using at 452 Khz. They were getting very hot and we couldent figgure out why. Upon observing the BH curve at 452 Khz at 101% saturation there were bumps and little knots on the curve, they were really temperature dependant as well. Turned out (remember this was in the 1970's) this was a combination of grain size and a purely mechanical effect (pizoelectric). We switched to a different material with a very fine grain domains and the cores ran cool. I nearly wore out my Hemi 256 slide rule on that one. Still have the darn thing.   Nowdays core selection is much easier for high current high frequency uses. Pick a core empirically do your design and take advice from the wisdom of the below.

FYI. Adams magnetic products, Tom Corrigan Applications Engineer, 1-800-747-7543 or his direct line 630-359-9445. A really good guy and reps several lines of cores. Of course there is always the Ferroxcube area application engineers that are some of the best in the world that I have worked with in the past year. They will take the time to help you, however, you should be conversant in the terms of the language of magnetics or you wont understand what they mean.

Its a challange, but the rewards are great. You will have a transmitter that will be reliable and reproducible.

rich
in Texas

PS I have retired now (66 Yrs old). Not a ham yet. As soon as I get most of my honey-doos done I am considering trying for a licence.

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From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Fri, 19 Sep 2008 03:42:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 71
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     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
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Xref: g2news2.google.com rec.radio.amateur.homebrew:3180

On Sep 18, 8:56=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> Short answer, IGBTs are much better but not as good as MOSFETs.
> In many cases they're good enough that the turn-off tail can be
> ignored with very minor accommodation if any. =A0In some cases an
> IGBT may be superior than a MOSFET because you don't have to worry
> about the switches RDSon drifting apart with temperature. =A0
>
> Though now days you can buy a 75V 120A 0.0004 Ohm MOSFET in a
> T0-220 package... I guess RDSon isn't much of an issue.
>
> The main problem with both IGBT and regular old bipolar transistors
> in a push-pull circuit is the turn-off tail. =A0The MOSFET does not
> have a turn-off tail. =A0There are two classes of IGBT, punch-though
> and non-punch through. The punch-trough devices have better turn-off
> times but are more fragile. =A0Lately I've been using Trench Field Stop
> IGBT's and they're very good.
>
> There are several means of preventing imbalance of the transformer
> in driven (not self oscillating) converters. =A0The PWM will adjust
> the on-time to compensate for the tail as it regulates the output
> voltage. =A0You can sense the differences with a circuit that converts
> time to voltage (a capacitor and a current source) then make the
> correction.
>
> There are clever flux balancing windings that can be added. =A0One
> Unitrode app note describes how this can be done in the course of
> presenting a half-bridge power converter. =A0I can't recall the
> document number.
>
> In the half bridge and full bridge sometimes a capacitor in series
> with the primary wdinding =A0prevents saturation. =A0I think you could
> build a two capacitor divider across the input voltage and at the
> center connect your transformer centertap lead. =A0Then as the
> imbalance increases the voltage at the center tap with shift
> to compensate for it. I've seen half bridges built this way...
> might work for a push pull... just guessing as I've never tried it.
>
> A very small gap (0.001-0.003") will prevent saturation if the
> imbalance is minor and not decrease the magnetizing inductance
> too much. =A0Sometimes any decrease is unwelcome though. =A0
> A distributed gap material like powdered-iron, koolmu, MPP
```

> or sendust, might be useful if you expect to have flux imbalance
> problems.
>
> Pulse by pulse current limiting will mask the problem, so the
> transformer is in saturation but not far into it and the current
> limit keeps it from destroying the switches. =A0Kinda risky to rely
> on this alone but it's helpful combined with other measures.
>
> In a current fed converter the transformer may saturate and then
> switches are effectively connected directly to the current source.
> No harm done! =A0A current fed push-pull is a rugged topology. =A0The
> VAX8800 computer uses one for its control and start-up power supply.
>
>
>
> > =A0I was reading up on push-pull topology of switching power supplies
> > and see that they have problems with flux imbalance. I used to work on
> > some power supplies that were push pull when I was in the USAF and the
> > driver transistors were always failing, now I know why. I see that
> > this isnt as much of a problem for FETs, How about IGBTs.
>
> > Jimmie- Hide quoted text -
>
> - Show quoted text -

I work with a couple of pieces of equipment that synthesises a
repetitive waveform by playing back the waeform from a ROM. I thought
I could do something like this to control the on-off timing of the
IGBT. This would set a minimum time between turn on and turn off and
the rest would be controlled by PWM.

From 5404639024606537954
X-Google-Thread: fc2a5,41e06d7cfd145418
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!i76g2000hsf.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: out-of-phase sides in a push-pull switchmode RF amp
Date: Fri, 19 Sep 2008 06:05:48 -0700 (PDT)
Organization: http://groups.google.com
Lines: 63
Message-ID: <f210173f-b698-4714-be17-f41f441f6b84@i76g2000hsf.googlegroups.com>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:730

On Sep 17, 12:11=A0pm, spamhog <n1...@hotmail.com> wrote:
> I built a Class D push-pull CW HF TX with 74HC240s providing
> oscillation, buffering, an extra inverter on one side, and two stages
> of current amplification, eventually driving a pair of IRF530
> MOSFETs..
>
> It looks like I struck a good balance even if there was a phase
> offset.
>
> This is what happened.
>
> I turned ann inversting 8-section driver 74HC240 from a single-ended
> oscillator->buffer->4Xamp (N7KSB style), into this push-pull monster:
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0| -inverter-2Xamp-16Xa=
mp-...
> VXO-buffer-buffer-|
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0|-------------2Xamp-16=
Xamp-...
>
> From VXO to the 2+2 sections in push-pull current amplifier, all fits
> into one 74HC240, fed at 5Vdc. Then, in a 8X equivalent fanout, I put
> 2 x 74HC240 on each side, fed at 8Vdc. 16 sections of current
> amplification per side provide A LOT of current, already delivered
> over 1W RF, and proved more than sufficient for driving a pair of
> IRF530's in push pull with individually trimmed positive DC bias,
> probably with room for further expansion.
>
> The interesting fact is that there is one extra inverting section on
> one side only. =A0On that side the signal should have been delayed by
> 20-30ns, the propagation time for one section. At 10MHz this should
> equal 70-110 degrees. In theory this should mean that both push-pull
> sides should spend 110 degrees in high status (MOSFETs conducting),
> and 110 degrees not conducting, leaving only 140 degrees for honest-to-
> G_d pushpullery. :-(
>
> Woe betide such a push-pull... =A0BUT... with my scope having one
> channel KO, I can't juxtapose the events - I can only combine the
> results in the output transformer.
>
> The result seems like a pretty symmetric waveform, with steep voltage
> peaks on both sides (output balun primary still not tuned). Once
> filtered into a sinusoid, I see about 60W DC going in and about 45-50W
> RF coming out, with negligible second harmonic.
>
> Is this normal? =A0What did I get wrong? (I.e. got right, but just by
> chance). Would I be wasting my time if I sought more push-pull symmety
> by means of an unbal transformer? I mean somethign like this:
>
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0|-buffer-2Xamp-...
> VXO-buffer-unbal
> =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0|-buffer-2Xamp-...
>
> Any wisdom welcome!
>
> [OK, I am going to have the scope's 2nd channel fixed anyway... :-) ]
As I see it you have a condition where both transistors are off at the
same time and both are on at the same time during parts of each cycle.
Adding another gate to equalize the propagation time would be the
first thing I would do.  I would want to have my o'scope working
before I started playing with turns on the transformer.

Jimmie



From -7167322492095355874
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!aioe.org!not-for-
mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Fri, 19 Sep 2008 17:57:49 +0200 (CEST)
Organization: Mostly In Piles
Lines: 26
Message-ID: <Xns9B1E6F88991582MDWN@194.177.96.78>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
<e6f6b189-dbe1-43a8-8307-9ad29d4ba560@m44g2000hsc.googlegroups.com>
<Xns9B19AC552493D2MDWN@194.177.96.78>
<864a548a-00dd-433a-95a5-3bde58880214@34g2000hsh.googlegroups.com> <68d71c04-
d7f5-4708-a719-624679f150b6@25g2000hsx.googlegroups.com>
<yNydnVrnzd1sDlPVnZ2dnUVZ8j2dnZ2d@pipex.net> <18216228-3c5a-4cf2-ac38-
ea577aff8f6d@a70g2000hsh.googlegroups.com> <48cea46f$1_4@mk-
nntp-2.news.uk.tiscali.com> <Xns9B1AC2F4DC19E2MDWN@194.177.96.78>
<5b80758c-9cd7-4421-8ebf-8be8e4152e2e@m44g2000hsc.googlegroups.com>
<Xns9B1BC3E20812MDWN@194.177.96.78> <15df1803-fd58-45cc-9d37-
c7fa86fdb81d@x35g2000hsb.googlegroups.com> <Xns9B1CC132340012MDWN@194.177.96.78>
<12ccce41-e9ea-4526-b293-49d9beb9349f@z66g2000hsc.googlegroups.com>
<Xns9B1DCAF1753AB2MDWN@194.177.96.78> <8e344554-a8d0-4796-
ae20-3739a2f7f5ea@z72g2000hsb.googlegroups.com>
NNTP-Posting-Host: Qhc4qDMPgVy9KbjiV9EOkg.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news1.google.com rec.radio.amateur.homebrew:731
```

This is one advantage of the flyback and asymmetrical forward
converters. They will reset if there's enough dead time.
So in those cases your ROM circuit would do the trick.

Symmetrical topologies like push-pull, half-bridge and
full-bridge can saturate even if there is plenty of dead
time.   The core is always being driven by the control
circuit, so it has no time to relax, If the drive isn't
equal and opposite for each half cycle there is an offset
which the core accumulates. Eventually it will saturate.
unless there is some means to compensate for the imbalance
of the drive (like a coupling capacitor.)
So here the ROM circuit will not help.

jimmie68@gmail.com wrote in news:8e344554-a8d0-4796-ae20-3739a2f7f5ea@z72g2000hsb.googlegroups.com:

> I work with a couple of pieces of equipment that synthesises a
> repetitive waveform by playing back the waeform from a ROM. I thought
> I could do something like this to control the on-off timing of the
> IGBT. This would set a minimum time between turn on and turn off and
> the rest would be controlled by PWM.
>

```
From 2152161733173349893
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 19 Sep 2008 13:03:15 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Fri, 19 Sep 2008 11:03:17 -0700
Message-ID: <33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com>
References: <1igrc41dls8pj2jrejt44dpq4h4qdi0o6r@4ax.com> <6bc7995e-2385-450e-9492-
a210ed34ac4a@p25g2000hsf.googlegroups.com>
<8d63d4ds7fua0i8ebubv8ebckt4fu6f1mn@4ax.com> <7efe49af-
de7a-449d-8269-2acfd4e3afd4@x41g2000hsb.googlegroups.com>
<3qq3d4dfvig673vi45sjcpuqtdgnbeesun@4ax.com> <7487f40b-8dc0-4eb4-afbf-
b3d0874d01d7@79g2000hsk.googlegroups.com>
<f6k5d4dvd5g8dqtt0ret8t16lmumdpcp7c@4ax.com> <25935aba-66a1-42fe-bb11-
cd29672917cd@x35g2000hsb.googlegroups.com>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
```

Lines: 47
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-DaMC8/
ZMKQt9pl3HlGX57XW19/1vE0n280kD7wXQAzcbIawUqadNZHDK1T2UpqTv4Wg6W7BS55b24W2!
oUguAGTbS+dZ8dvxFCyOFt9vwp7rdXNmvEKeB5aoj7545OwdjFGNy3B0AmYRUdkjX5YUeM0=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3183

N2EY@aol.com wrote:

>AJ Lake wrote:

>> The treaty applied to 30MHz and below.

>No, it applied to 1000 MHz and below
>back when the Technician was created

Do you have the sources? I couldn't find anything but 30MHz. But I'll
stand corrected since you're certainly the undisputed historian here.

>What mode would a 1950s or 1960s ham use for moonbounce? Aurora?
>Meteor or tropo scatter? Satellite comms?

CW was the best weak signal mode in those days. Your point?

>You can just imagine the reaction from hams who'd worked hard > > to get
>their Advanceds or Extras, then suddenly found the HF 'phone
>bands flooded with Generals and Conditionals who had the same privileges.

>>Probably like having the HF frequencies flooded by no-coders... 8-O

>No, much worse.

Ouch. I guess you don't like no-coders on your HF bands.

>> If I were made boss, the maximum power allowed for any class
>> would be 100W.

>How's anybody gonna work EME with that?

EME is possible with a 100 watts. But CW ain't up to it. It takes
digital signal processing...

>But the Class A didn't disappear. In the 1951 restructuring,
>it was renamed "Advanced",

In a prior post you said the Tech+ will "disappear" because it will be
renewed (and thus renamed) a Tech. Now you say the Class A *didn't

disappear* when it was renamed as the Advanced. Can't have it both
ways...

 From your last post:
"The first license class to disappear completely will be the Tech
Plus, because FCC has been renewing them as Technician since April
2000. In another 19 months the last Tech Plus should disappear."

```
From -5650273914392572653
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!y38g2000hsy.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Fri, 19 Sep 2008 11:48:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 38
Message-ID: <a5ec78f3-d683-4228-908d-88c91506bb75@y38g2000hsy.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
     <864a548a-00dd-433a-95a5-3bde58880214@34g2000hsh.googlegroups.com>
     <68d71c04-d7f5-4708-a719-624679f150b6@25g2000hsx.googlegroups.com>
     <yNydnVrnzd1sDlPVnZ2dnUVZ8j2dnZ2d@pipex.net> <18216228-3c5a-4cf2-ac38-
ea577aff8f6d@a70g2000hsh.googlegroups.com>
     <48cea46f$1_4@mk-nntp-2.news.uk.tiscali.com>
<Xns9B1AC2F4DC19E2MDWN@194.177.96.78>
     <5b80758c-9cd7-4421-8ebf-8be8e4152e2e@m44g2000hsc.googlegroups.com>
     <Xns9B1BC3E20812MDWN@194.177.96.78> <15df1803-fd58-45cc-9d37-
c7fa86fdb81d@x35g2000hsb.googlegroups.com>
     <Xns9B1CC132340012MDWN@194.177.96.78> <12ccce41-e9ea-4526-
b293-49d9beb9349f@z66g2000hsc.googlegroups.com>
     <Xns9B1DCAF1753AB2MDWN@194.177.96.78> <8e344554-a8d0-4796-
ae20-3739a2f7f5ea@z72g2000hsb.googlegroups.com>
     <Xns9B1E6F88991582MDWN@194.177.96.78>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1221850089 30855 127.0.0.1 (19 Sep 2008 18:48:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 19 Sep 2008 18:48:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y38g2000hsy.googlegroups.com; posting-host=204.108.8.5;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:733
```

On Sep 19, 11:57=A0am, Grumpy The Mule <s_foo...@foo.bar> wrote:

> This is one advantage of the flyback and asymmetrical forward
> converters. =A0They will reset if there's enough dead time.
> So in those cases your ROM circuit would do the trick.
>
> Symmetrical topologies like push-pull, half-bridge and
> full-bridge can saturate even if there is plenty of dead
> time. =A0 The core is always being driven by the control
> circuit, so it has no time to relax, =A0If the drive isn't
> equal and opposite for each half cycle there is an offset
> which the core accumulates. =A0Eventually it will saturate.
> unless there is some means to compensate for the imbalance
> of the drive (like a coupling capacitor.)
> So here the ROM circuit will not help.
>
> jimmi...@gmail.com wrote in news:8e344554-a8d0-4796-ae20-
> 3739a2f7f...@z72g2000hsb.googlegroups.com:
>
>
>
> > I work with a couple of pieces of equipment that synthesises a
> > repetitive waveform by playing back the waeform from a ROM. I thought
> > I could do something like this to control the on-off timing of the
> > IGBT. This would set a minimum time between turn on and turn off and
> > the rest would be controlled by PWM.- Hide quoted text -
>
> - Show quoted text -

I think I get it. Would this explain why in a push-pull topology after
the transistors have been replaced a couple of times the power supply
just keeps failing for no apparent reason?

Are you saying that in other topologies it doesnt saturate or that it
doesnt matter if it does?

Ordered Abe's book.

Jimmie

From -8842923906513898296
X-Google-Thread: fc2a5,41e06d7cfd145418
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
69.16.185.21.MISMATCH!npeer03.iad.highwinds-media.com!news.highwinds-media.com!
feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe03.iad.POSTED!
7564ea0f!not-for-mail
From: "Rich Klestinez" <replytogroup@noplace.cc>
Newsgroups: rec.radio.amateur.homebrew
References: <722a1a37-0b4b-461a-b3fa-771fd8b741e7@c65g2000hsa.googlegroups.com>
<f210173f-b698-4714-be17-f41f441f6b84@i76g2000hsf.googlegroups.com>
Subject: Re: out-of-phase sides in a push-pull switchmode RF amp

```
Lines: 71
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <5aUAk.15471$rV4.10915@newsfe03.iad>
NNTP-Posting-Host: ndfoanihlmjokbhjcnmpgjndcdijhjkj
X-Complaints-To: abuse@charter.net
X-Trace:
ejcgghfdebcllckhfkhgnhldfhiklkalpejlecghplnjopfindfoanihlmjokbhjlcchfcjgkjmefkcaje
kphfenkpajolgjllkjfabgdphkoaopbncnalffpmmflfcpbgjklipccefckbgb
NNTP-Posting-Date: Fri, 19 Sep 2008 20:43:45 UTC
Date: Fri, 19 Sep 2008 15:41:29 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:734


<jimmie68@gmail.com> wrote in message
news:f210173f-b698-4714-be17-f41f441f6b84@i76g2000hsf.googlegroups.com...
On Sep 17, 12:11 pm, spamhog <n1...@hotmail.com> wrote:
> I built a Class D push-pull CW HF TX with 74HC240s providing
> oscillation, buffering, an extra inverter on one side, and two stages
> of current amplification, eventually driving a pair of IRF530
> MOSFETs..
>
> It looks like I struck a good balance even if there was a phase
> offset.
>
> This is what happened.
>
> I turned ann inversting 8-section driver 74HC240 from a single-ended
> oscillator->buffer->4Xamp (N7KSB style), into this push-pull monster:
>
> | -inverter-2Xamp-16Xamp-...
> VXO-buffer-buffer-|
> |-------------2Xamp-16Xamp-...
>
> From VXO to the 2+2 sections in push-pull current amplifier, all fits
> into one 74HC240, fed at 5Vdc. Then, in a 8X equivalent fanout, I put
> 2 x 74HC240 on each side, fed at 8Vdc. 16 sections of current
> amplification per side provide A LOT of current, already delivered
> over 1W RF, and proved more than sufficient for driving a pair of
> IRF530's in push pull with individually trimmed positive DC bias,
> probably with room for further expansion.
>
> The interesting fact is that there is one extra inverting section on
> one side only. On that side the signal should have been delayed by
> 20-30ns, the propagation time for one section. At 10MHz this should
> equal 70-110 degrees. In theory this should mean that both push-pull
> sides should spend 110 degrees in high status (MOSFETs conducting),
> and 110 degrees not conducting, leaving only 140 degrees for honest-to-
> G_d pushpullery. :-(
>
```

> Woe betide such a push-pull... BUT... with my scope having one
> channel KO, I can't juxtapose the events - I can only combine the
> results in the output transformer.
>
> The result seems like a pretty symmetric waveform, with steep voltage
> peaks on both sides (output balun primary still not tuned). Once
> filtered into a sinusoid, I see about 60W DC going in and about 45-50W
> RF coming out, with negligible second harmonic.
>
> Is this normal? What did I get wrong? (I.e. got right, but just by
> chance). Would I be wasting my time if I sought more push-pull symmety
> by means of an unbal transformer? I mean somethign like this:
>
> |-buffer-2Xamp-...
> VXO-buffer-unbal
> |-buffer-2Xamp-...
>
> Any wisdom welcome!
>
> [OK, I am going to have the scope's 2nd channel fixed anyway... :-)]

As I see it you have a condition where both transistors are off at the same time and both are on at the same time during parts of each cycle. Adding another gate to equalize the propagation time would be the first thing I would do. I would want to have my o'scope working before I started playing with turns on the transformer.

Jimmie

If I understand you the IRF fets are in push pull. If this is the case then at no time should both transistors be conductiing at the same time ever. There should be a dead band between when one transistor conducts and the other is turning off.

From 3907173523681799805
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!x35g2000hsb.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Fri, 19 Sep 2008 14:35:54 -0700 (PDT)
Organization: http://groups.google.com
Lines: 90
Message-ID: <97521a8a-60a9-491f-ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
References: <1igrc41dls8pj2jrejt44dpq4h4qdi0o6r@4ax.com> <6bc7995e-2385-450e-9492-a210ed34ac4a@p25g2000hsf.googlegroups.com>
<8d63d4ds7fua0i8ebubv8ebckt4fu6f1mn@4ax.com> <7efe49af-de7a-449d-8269-2acfd4e3afd4@x41g2000hsb.googlegroups.com>

```
     <3qq3d4dfvig673vi45sjcpuqtdgnbeesun@4ax.com> <7487f40b-8dc0-4eb4-afbf-
b3d0874d01d7@79g2000hsk.googlegroups.com>
     <f6k5d4dvd5g8dqtt0ret8t16lmumdpcp7c@4ax.com> <25935aba-66a1-42fe-bb11-
cd29672917cd@x35g2000hsb.googlegroups.com>
     <33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com>
NNTP-Posting-Host: 207.101.100.154
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1221860154 30919 127.0.0.1 (19 Sep 2008 21:35:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 19 Sep 2008 21:35:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x35g2000hsb.googlegroups.com; posting-host=207.101.100.154;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:735
```

On Sep 19, 2:03=A0pm, AJ Lake <nom...@fakeaddress.com> wrote:
> N...@aol.com wrote:
> >AJ Lake =A0wrote:
> >> The treaty applied to 30MHz and below.
> >No, it applied to 1000 MHz and below
> >back when the Technician was created
>
> Do you have the sources?

Look up the results of the various World Radio Conferences down
through the years. A good starting place would be the 1947 Atlantic
City conference.

The QST archives are useful if you're a member of ARRL.

> I couldn't find anything but 30MHz.

You need to look further back than the 1980s.

> But I'll
> stand corrected since you're certainly the undisputed historian here.

Works for me!

> >What mode would a 1950s or 1960s ham use for moonbounce? Aurora?
> >Meteor or tropo scatter? Satellite comms?
>
> CW was the best weak signal mode in those days. Your point?

That if a license is supposed to be about experimenting, and Morse
Code/CW is the best mode to use for much of that experimenting, it
made sense to require a basic Morse Code test for that license.

> >You can just imagine the reaction from hams who'd worked hard
> > to get
> >their Advanceds or Extras, then suddenly found the HF 'phone
> >bands flooded with Generals and Conditionals who had the same privileges=
.

> >>Probably like having the HF frequencies flooded by no-coders... 8-O

> >No, much worse.

> Ouch. I guess you don't like no-coders on your HF bands.

Actually I don't think the 5 wpm Morse Code test was too much to ask.
But that's ancient history now.

What I was saying was that the Class A/Advanceds, and the Extras, of
1952 had been led to believe that the investment they had made in
earning those licenses would continue to be paid off by having more
privileges. All the FCC actions up to that time indicated it.

But at the last minute the FCC did the opposite.

> >> If I were made boss, the maximum power allowed for any class
> >> would be 100W.

> >How's anybody gonna work EME with that?
>
> EME is possible with a 100 watts. But CW ain't up to it. It takes
> digital signal processing...

Actually that's not true. Hams have done EME on microwave frequencies
with less than 100 watts and CW. But it takes a high gain antenna.

> >But the Class A didn't disappear. In the 1951 restructuring,
> >it was renamed "Advanced",

> In a prior post you said the Tech+ will "disappear" because it will be
> renewed (and thus renamed) a Tech.

That's right. It's been happening since April 2000.

> Now you say the Class A *didn't
> disappear* when it was renamed as the Advanced. Can't have it both
> ways...

There's a difference between a class disappearing and being renamed.

When the last Tech Plus either expires or is renewed as a Tech, the
Tech Plus class will have disappeared, having been merged with the
Tech. Just like what happened to the Conditional class back in the
late 1970s.

But the Class A/Advanced folks were and continue to be kept as a separate license class.

73 de Jim, N2EY

From 6119441248980872318
X-Google-Thread: fc2a5,1a70b767cd70bc46
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews2.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
<LZiAk.29033$IB6.9166@bignews8.bellsouth.net> <6je7b6F2rhscU1@mid.individual.net>
<RTDAk.37908$vX2.17185@bignews6.bellsouth.net> <6jh2ueF3ab47U3@mid.individual.net>
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NNTP-Posting-Date: Fri, 19 Sep 2008 17:32:26 EDT
Organization: BellSouth Internet Group
Date: Fri, 19 Sep 2008 17:37:11 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:736

Bob wrote:
> ken scharf wrote:
>
>> Sounds like you're building a receiver with only one tube in it (a 7360)
>> and everything else solid state. Then again the 7360 probably makes a
>> very good product detector too.
>
> No - the RF amplifier stage is a variable mu pentode, and there are more
> variable mu valves used in the IF, another 7360 for the product detector,
> and the rest is solid state. The hybrid approach seemed best - for
> example, the variable current drawn by the audio stages is /entirely/
> isolated from the IF supply, the front end supply and the local oscillator
> supply. At the moment, it's a single conversion superhet, with a 10.7 MHz
> IF (because I have 10.7 MHz filters), though I'm considering making it dual
> conversion, with a very high first IF, to improve the inherent image
> problems.
>

> C.
>

One project that I have been considering would be a re-creation of the classic Drake 2B receiver. This receiver was a dual conversion 80 meter receiver with an additional converter for other bands (making it a triple conversion). The receiver covered 600khz of the 80 meter band (3.5-4.1 mhz), the first IF was 455 khz, and the second IF was 50 khz. I have several sets of IF cans from BC453 receivers (85khz) and a 2.7 khz Collins filter that could be used instead of an IF transformer for the first IF.

I was thinking of using compactrons in the set, a single 6AR11 for the 85 khz IF, a 6D10 for the product detector and bfo, a 6AF11 for the AF stage and S meter amp. A 6AG11 would serve as an AGC tube and AM detector. The second (third?) mixer would be a 6BE6 (455->85), the first and second mixers would be 7360's (expensive!). The first (xtal) hfo would be solid state (maybe a pll), the second hfo (vfo) would also be solid state. I have several nice three gang capacitors from ARC-5 receivers with dial gear drive that would work nicely. The completed set would look more like the 2C because of the dial unless I ever find another Edystone dial. (I had one in the junk box for a few years and sold it on ebay to someone building an HBR. Got a kings ransom for it too).

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From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <gVXzk.12264$rV4.5187@newsfe03.iad> <LZiAk.29033$IB6.9166@bignews8.bellsouth.net> <6je7b6F2rhscU1@mid.individual.net> <RTDAk.37908$vX2.17185@bignews6.bellsouth.net> <6jh2ueF3ab47U3@mid.individual.net> <KTUAk.36335$Ep1.21799@bignews2.bellsouth.net>
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Organization: Cox
Date: Fri, 19 Sep 2008 18:31:35 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:737

"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:KTUAk.36335$Ep1.21799@bignews2.bellsouth.net...
> Bob wrote:
>> > I was thinking of using compactrons in the set, a single 6AR11 for the
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The 6JH8 should work as well as the 7360 in a receiver mixer.
Swan changed to the 6JH8, probably for cost reasons.
(http://members.shaw.ca/pacifictv/cartridg.htm)

Not to make you feel bad, Ken... But, I still have an Eddystone
squirreled away for my HBR project. I think the Drake 2C
version makes more sense, though. The plug in coils and
oscillator LO scheme used by W6TC in the HBR
series leaves a bit to be desired.

Pete

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From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Sat, 20 Sep 2008 00:48:12 +0200 (CEST)
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Xref: g2news2.google.com rec.radio.amateur.homebrew:3189
```

Hard to say. Sometimes other parts are wounded and cause the transistor on-times to be slightly different. Often a base drive component, usually a resistor, changes value. Some lousy designs just won't work without selected transistors required to match the on-times. It only requires a small imbalance for the push-pull transformer to accumulate enough flux to eventually saturate. If the core is steel or powdered iron which can be magnetized by the fault current of the first failure sometimes (rarely) that causes problems too.

The other topologies we've discussed are more forgiving. BUT if the switch is on for too long, or the voltage applied to the winding too high, causing the flux density that the transformer can sustain to be exceeded, it will saturate. The current will then rise quite rapidly the sparks will fly.

It's just that they're not senstive to slight variations in the on-time of the switch. They reset the transformer completely during the dead time, so they don't accumulate any flux from on-time imbalances.

An exception is current fed symmetrical topologies which are just as senstive to imbalance. If the transformer saturates the fault current is controlled by the inductor feeding the converter and the current gradually increases. So the control circuit can catch the fault before the transistors are turned into lumps of glass.

Some topologies rely on saturation in order to function, like the royer (and some forms of blocking oscillator supplies) where saturation removes the positive feedback base drive and allows the switch to turn off. Nasty things but sometimes useful for low parts count, low-power, converters.

I'm sure you'll find Abe's book helpful. I still re-read it from time to time.

> I think I get it. Would this explain why in a push-pull topology after
> the transistors have been replaced a couple of times the power supply

```
> just keeps failing for no apparent reason?
>
> Are you saying that in other topologies it doesnt saturate or that it
> doesnt matter if it does?
>
> Ordered Abe's book.
>
> Jimmie
>



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User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers??  Opinions???
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
<LZiAk.29033$IB6.9166@bignews8.bellsouth.net> <6je7b6F2rhscU1@mid.individual.net>
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Organization: BellSouth Internet Group
Date: Fri, 19 Sep 2008 19:00:14 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:739

Tio Pedro wrote:
> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
> news:KTUAk.36335$Ep1.21799@bignews2.bellsouth.net...
>> Bob wrote:
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>
> Pete
>
>

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I also have a dial drive from an HRO receiver if I ever get the desire
to build something even more antedeluvian!

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Newsgroups: rec.radio.amateur.homebrew
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Xref: g2news1.google.com rec.radio.amateur.homebrew:740
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N2EY wrote:

>AJ Lake wrote:

>> Do you have the [treaty] sources?

>Look up the results of the various World Radio Conferences down
>through the years. A good starting place would be the 1947 Atlantic
>City conference.

So you don't have a source. Maybe I gave in too quickly... 8-O

>The QST archives are useful if you're a member of ARRL.

I haven't been an ARRL member since the dark days.

>You need to look further back than the 1980s.

I tried hard to find a source to prove me right, but no luck. That's
why I wanted to see your source that proved me wrong.

>That if a license is supposed to be about experimenting, and Morse
>Code/CW is the best mode to use for much of that experimenting, it
>made sense to require a basic Morse Code test for that license.

Wouldn't it be better to give a solder test to an experimenter?

>Actually I don't think the 5 wpm Morse Code test was too much to ask.
>But that's ancient history now.

Is that the old 'weeder' reason or the old 'I had to do it' reason?

>> EME is possible with a 100 watts. But CW ain't up to it. It takes
>> digital signal processing...

>Actually that's not true. Hams have done EME on microwave frequencies
>with less than 100 watts and CW. But it takes a high gain antenna

With digital processing it can be done with a Yagi. You think we ought
to add a separate digital processing test to the Tech?

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From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
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Xref: g2news1.google.com rec.radio.amateur.homebrew:741
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news:98WAk.29779$IB6.23874@bignews8.bellsouth.net...
> Tio Pedro wrote:
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> available from time to time). The APC variable caps are getting rare
> these days, but good quality ceramic trimmers would sub and these are not
> TOO hard to find.
>

The APC caps (silver plated brass are needed for the LO coils) are still available. I've read that over one million a month were produced during WWII. How true that is, I don't know, but it was on a webpage dedicated to the history of Hammarlund. You have to shop around, but I've picked up a few dozen for around two bucks each.

The National polystrene coils were becoming scarce by the time the last HBR ran in QST. Bill (exray) uses Garolite XXX tubing (phenolic) for his plug in coils; a bit pricy for my tastes. Ted's coils had Qs of around 150 or so.

I'm going to try using fiberglass tubing--fortunately I have the poor ham's Q-meter (Heath QM-1) to verify the effectiveness of that material. A kind soul sent me a few dozen expired tubes to salvage the bases from. There's always plastic pill bottles, they've been tried and pass the Q-Meter test.

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>

W6TC went through great pains to eliminate drift in the LO coils, I don't know if toroids are the best choice for oscillator coils.

I'm sure you're familiar with the turret tuner in the RCA TW-2000?

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Now you're talking!!

Pete

From 906730561369532977
X-Google-Thread: fc2a5,1a70b767cd70bc46
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MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
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X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcboebjojaaiepanjmfebcjhjhfbdgakjgbklp
almnbiohpcjbciendhodakadhkakpjiifpgghlmijcaappmooeonfoiafffbpbllgpngigfcfmcgoc
NNTP-Posting-Date: Fri, 19 Sep 2008 22:57:55 EDT
Organization: BellSouth Internet Group
Date: Fri, 19 Sep 2008 23:01:41 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:742

Tio Pedro wrote:
> The National polystrene coils were becoming scarce by the time
> the last HBR ran in QST. Bill (exray) uses Garolite XXX tubing
> (phenolic) for his plug in coils; a bit pricy for my tastes. Ted's
> coils had Qs of around 150 or so.
>

I remember Allied radio and Lafayette radio both carrying those polystyrene coil forms as late as the early 70's (The last HBR article was in '64 IIRC). Those coil forms were NOT made by National Radio, the National coil forms were made of dark brown plastic (bakelite?) or ceramic material. Millen also made some plug in coils that were made of an orange colored bakelite like material. The '67 HB had a novice transmitter (1625 final) that used those coil forms, Allied Radio part numbers given.

I had a few of those coil forms at one time purchased to build a one tube regenerative receiver from the 'boy electrician' book by Alfred Morgan. Barry electronics had the 1H4G tubes for 50 cents back then.

Ocean State Electronics was carrying the polystyrene coil forms a few years ago. They also had some 'cloned' forms that would fit the old National Radio SW3 receiver (same weird 6 pin base).

From 2969578397252934339
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!

```
nntp.giganews.com!nx01.iad.newshosting.com!newshosting.com!69.16.185.11.MISMATCH!
npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!bigfeed2.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!
news.bellsouth.net!bignews7.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
<bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
In-Reply-To: <bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 63
Message-ID: <Xp9Bk.38479$De7.29694@bignews7.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
enggpaojkliedbjjdbdpiflmbcekedmfhojhikkbagflhcbofockbnfdpnejjpnplllbpipikkjbbjchlp
almnbiohpcjbcijmgfgffnmhklbjeniifpgghlmijcaappoamibjnenkflckohaeemjjnagdfafjfd
NNTP-Posting-Date: Sat, 20 Sep 2008 12:21:11 EDT
Organization: BellSouth Internet Group
Date: Sat, 20 Sep 2008 12:26:23 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:743

raypsi wrote:
> Hey Gary,
>
> Rocks aren't cheap here: http://www.icmfg.com/thruhole_crystals.html
> Maybe in 9 land they pave the streets with gold.
> Personally I'd go with a programmable divider or PLL.
>
> Maybe you like retro, then I'd get some old rocks the ones
> you can take apart and grind them down to git's the freq's you need.
> I recall grinding some of these to get them into the novice band back
> 40 yrs ago.
> And putting a pencil mark on the quartz  to get them to go down in
> frequency.
> FT243 style can be found here maybe still: http://www.af4k.com/crystals.htm
>
>
> 73 OM
>
> n8zu
>
> On Sep 2, 4:12 pm, Gary@ removenospamandputkf9cm.com wrote:
>> I am looking for some Heterodyne conversion crystals for a receiver I am
>> making.
>> The frequencies are: 5 MHz, 7 MHz, 10.5 MHz, 13.5 MHz,  17.5 MHz and 21.5
>> MHz.
>> The variable mixing frequency will be from 3 to 3.5 MHz. I would prefer all
>> the same type holder.
```

>>
>> TNX de Gary, KF9CM
>
You can use the same grinding powder that ATM's (amateur Telescope makers) use to grind mirrors for grinding crystals. You want the fine stuff #400 or finer. www.gotgrit.com has this stuff cheap.
Grind the crystal against a piece of scrap plate glass. I've had mixed results, I've moved a few rocks a few hundred khz and I've also killed some trying to move them just a few hundred hz.

Only grind ONE side of the rock, put a pencil mark on the other so you don't mix this up. Wash the crystal well after each grinding session and only handle it by the edges, you don't want your finger sweat or oils getting on the crystal. Grinding motion should be a figure 8, use light pressure and don't push down on the middle of the crystal, handle by the edges while grinding.

If you do kill the crystal, you might be able to get it to start again by light grinding using a different motion. Also try holding the crystal vertical and grind the edges slightly. Measure the thickness (carefully!) with a micrometer all around. If you ground a 'wedge' shape into the rock this will also kill and and the cure is to regrind putting more pressure on the fatter end.

I have quite a few useless FT243 rocks in the junk box, one of these days I'll probably try moving a few of them to a more useful frequency.

BTW some of those 'useless' frequency rocks do multiply out into some ham bands.

A few examples from my junk box:
4845khz -> 29070khz (10 meters)
6050khz -> 18150khz (17 meters)
6025khz -> 18075khz (17 meters)
4785khz -> 28710hkz (10 meters)
5300khz -> 21200hkz (15 meters)

From -5382182047129073362
X-Google-Thread: fc2a5,b2461839f139fd6d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews4.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted, Diodes
References: <3e143b92-6e3e-4872-b021-03f0cf26237b@26g2000hsk.googlegroups.com>
    <f05b699c-5585-4236-a994-060ee07b06c8@q5g2000prf.googlegroups.com>

```
     <059007d4-db4f-4a13-a21e-7f04d65398f1@z66g2000hsc.googlegroups.com>
     <c824fc80-07f7-4a7c-b286-c711932b5300@a2g2000prm.googlegroups.com>
     <0c29b9b8-9822-4bde-b266-45447fe77ebf@a2g2000prm.googlegroups.com>
     <d0367098-b46d-4498-8550-4945493f0d38@v26g2000prm.googlegroups.com>
     <6e7b9deb-3bf3-4c09-b6a7-7d1425e4b53f@b1g2000hsg.googlegroups.com>
     <a8771cea-5ec0-4eb9-8b2e-ad7420f51809@i24g2000prf.googlegroups.com>
<5372ea10-f80e-4c2c-b2ea-fe5649dbcb75@x41g2000hsb.googlegroups.com>
In-Reply-To: <5372ea10-f80e-4c2c-b2ea-fe5649dbcb75@x41g2000hsb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 47
Message-ID: <%ghBk.34458$rD2.29210@bignews4.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
npbhgpngjbkmjfegdbdpiflmbcekedmfhojhikkbagflhcboibcmaggbdnmlgbjikdbhodmhclfafddjgb
fiinndokammkcbjmgfgffnmhklbjeniifpgghlmijcaappdeofflbikfljcngjbakpcjmfgigpnmkl
NNTP-Posting-Date: Sat, 20 Sep 2008 21:17:47 EDT
Organization: BellSouth Internet Group
Date: Sat, 20 Sep 2008 21:19:04 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:744

raypsi wrote:
> On Aug 27, 3:58 pm, K7ITM <k7...@msn.com> wrote:
>> On Aug 26, 12:05 pm, Tim Shoppa <sho...@trailing-edge.com> wrote:
>>
>>
>>
>>> On Aug 26, 2:26 pm, K7ITM <k7...@msn.com> wrote:
>>>> On Aug 26, 10:46 am, Tim Shoppa <sho...@trailing-edge.com> wrote:
>>>> ...
>>>>> The brass-screw-in-a-solenoid is something I just tried in my
>>>>> reproduction of the MMR-40 and I am very impressed with its stability
>>>>> and mechanical simplicity as a PTO. A similar but not identical
>>>>> mechanical design is used in the WA6OTP PTO, I haven't tried it yet.
>>>>> Tim.
>>>> Though not actually PTO if it's a brass screw, right?
>>> Permeability of brass is slightly less than air, which is why the PTO
>>> goes up in frequency as I screw the brass screw in.
>>> It's not an iron-powder slug (which would go down in frequency as it
>>> enters the solenoid) but it's still a PTO.
>>> If you haven't tried them, I highly encourage you look at the PTO in
>>> the MMR-40 and the WA6OTP PTO. Completely 100% homebrewable and I'm
>>> very happy with the results.
>>> Tim.
>> Well, I beg to differ with you about the (main) reason the frequency
>> changes.  Consider what happens if you have two coils magnetically
>> coupled and you monitor the inductance of one while you apply a short
>> across the other one.  Then consider what you'll see on the inductance
>> meter as you change the coupling between the measured coil and the
>> shorted one.  The references I've been able to find so far suggest the
>> permeability of brass is slightly higher than that of air, but I
>> suppose it's a function of the composition of the brass; in any event,
```

>> I'd bet that the shorted-turn effect is very much larger than the
>> permeability effect with respect to changing the inductance of the
>> oscillator coil.
>>
>> Cheers,
>> Tom
>
> I agree, except Air has no permeability, you can't magnetize air. You
> can't magnetize brass. What you have is a proximity detector. aka
> metal detector.
>
> 73
> n8zu

Brass slug acts as a shorted turn, absorbing rf and decreasing
effective inductance. You can tune a circuit with a link coupling coil
of a few turns connected to a low ohm value pot!

```
From -4340193591156695853
X-Google-Thread: fc2a5,ed200c69096e3c67
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 21 Sep 2008 07:16:43 -0500
Message-ID: <48D63B2A.7070009@bloomer.net>
Date: Sun, 21 Sep 2008 12:16:42 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To: wa2rqy <rlucch2098@aol.com>
Subject: Re: Needed: Cinch 10 pin female socket
References: <74248669-09f1-44e4-b897-ffd775929454@z66g2000hsc.googlegroups.com>
In-Reply-To: <74248669-09f1-44e4-b897-ffd775929454@z66g2000hsc.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 32
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-mRXh8AZs+4Ydj/
rQUYVQdlHSLf+gixQcYsqp06ow7b0SPEUPwCoqlWOzfmSIVWRo1hYDH6/rHpzMyaA!
tsUw1LKtbPtPyzcIXcLWbMgXYXy4B7AjKQkNOd+S2ZPAIPHklM783Ig750DC78D+uw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:746
```

wa2rqy wrote:

> For my power supply which feeds my Gonset G-76.
> Appears that the last owner either removed the plastic pin retainer or
> it fell out.
> Now, there is nothing to support these female pins from wobbling
> around & connector from falling off with poor connections to boot.
>
> The Cinch/Jones model number is S-310-CCT-K
> Any help will be apprechiated in getting this rig back on the air.
>
> Need NOT be new.
> Regard/73.....
> Rich WA2RQY

I searched on Mouser Electronics website. Says the part is obsolete,
but they have a link under the "Quote" section, so maybe they have some
available???

http://www.mouser.com/Search/Refine.aspx?
Ntt=*S310CCTK*&N=1323038&Ntx=mode%2bmatchall&Ns=P_SField&OriginalKeyword=S-310-CCT-K&Ntk=Mouser_Wildcards

Digikey lists the part, but shows a quantity of zero...

http://search.digikey.com/scripts/DkSearch/dksus.dll?Detail?name=CJ210S-ND

One last ditch effort...

http://www.google.com/search?hl=en&q=S-310-CCT-K&btnG=Google+Search&aq=f&oq=

Good luck with the search...this may be a tough one :(

Scott
N0EDV

From -7549579426090040572
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!k7g2000hsd.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Sun, 21 Sep 2008 05:46:54 -0700 (PDT)
Organization: http://groups.google.com
Lines: 104
Message-ID: <c5661e9b-a347-4b33-bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
References: <8d63d4ds7fua0i8ebubv8ebckt4fu6f1mn@4ax.com> <7efe49af-de7a-449d-8269-2acfd4e3afd4@x41g2000hsb.googlegroups.com>
     <3qq3d4dfvig673vi45sjcpuqtdgnbeesun@4ax.com> <7487f40b-8dc0-4eb4-afbf-b3d0874d01d7@79g2000hsk.googlegroups.com>
     <f6k5d4dvd5g8dqtt0ret8t16lmumdpcp7c@4ax.com> <25935aba-66a1-42fe-bb11-

```
cd29672917cd@x35g2000hsb.googlegroups.com>
     <33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-
ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
     <lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com>
NNTP-Posting-Host: 64.12.117.200
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1222001215 12811 127.0.0.1 (21 Sep 2008 12:46:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 21 Sep 2008 12:46:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k7g2000hsd.googlegroups.com; posting-host=64.12.117.200;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
     98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-mtc-ta09.proxy.aol.com[400C7009] (Prism/1.2.1),
     HTTP/1.1 cache-mtc-ah08.proxy.aol.com[400C75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:747
```

On Sep 19, 7:16=EF=BF=BDpm, AJ Lake <nom...@fakeaddress.com> wrote:

```
> N2EY wrote:
> >AJ Lake wrote:
> >> Do you have the [treaty] sources?
> >Look up the results of the various World Radio Conferences down
> >through the years. A good starting place would be the 1947 Atlantic
> >City conference.
>
> So you don't have a source.
```

No, I do have a source.

Here are the facts:

Amateur radio was first officially recognized as a separate radio service at the Paris radio conference of 1927. As part of the regulations/treaty, all amateurs had to be Morse Code tested.

At the Atlantic City radio conference of 1947, the Morse Code test requirement was modified so that a Morse Code test was not required for amateur licenses that only allowed operation above 1000 MHz. This rule was in effect when the Technician Class license was created by FCC in 1951. There's an article explaining all this in QST for October, 1947.

At the Geneva radio conference of 1959, the requirement was modified so that a Morse Code test was not required for amateur licenses that only allowed operation above 144 MHz. This is explained in a QST article in the issue for March, 1960.

At the radio conference of 1979, commonly called "WARC-79", which resulted in the 30, 17 and 12 meter bands, the requirement was modified so that a Morse Code test was not required for amateur licenses that only allowed operation above 30 MHz. This is explained in a QST article in the issue for February, 1980.

So the USA could not have created the Technician license in 1951 without a code test unless that license had not allowed any operation below 1000 MHz.

> >The QST archives are useful if you're a member of ARRL.
>
> I haven't been an ARRL member since the dark days.

When were these "dark days"?

> >You need to look further back than the 1980s.
>
> I tried hard to find a source to prove me right, but no luck. That's
> why I wanted to see your source that proved me wrong.

It's not about "luck", it's about knowing the history.

> >That if a license is supposed to be about experimenting, and Morse
> >Code/CW is the best mode to use for much of that experimenting, it
> >made sense to require a basic Morse Code test for that license.
>
> Wouldn't it be better to give a solder test to an experimenter?

No. The license is for operating, not building. Anyone can build whatever equipment they want with no license at all, but to put it on the air legally requires a license.

> >Actually I don't think the 5 wpm Morse Code test was too much to ask.
> >But that's ancient history now.
>
> Is that the old 'weeder' reason or the old 'I had to do it' reason?

Neither. It's the "reasonable requirement to know what you are doing" reason.

The basic argument against the code test comes down to this:

Why should anyone have to learn it if they don't intend to use it? Those who want to use it will learn it on their own, and those who don't will learn it and not use it.

That same argument can applied to almost anything in the written tests, though.

For example:

Why should anyone have to learn about VHF/UHF if they only intend to use HF?

Why should anyone have to learn about solid-state if they only intend to use tubes?

Why should anyone have to learn about FM, SSTV, RTTY, etc., if they only intend to use CW, AM or SSB?

Why should anyone have to learn about theory if they only intend to use manufactured gear?

Why should anyone have to learn about RF exposure safety if they only intend to use low power?

Etc.

What happens is that the argument, taken to its logical conclusion, says there should be no real test at all. FCC tried having a radio service with no test - it didn't work out too well.

73 de Jim, N2EY

From -4062969875687812877
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
feeder.erje.net!news.mixmin.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Sun, 21 Sep 2008 16:03:53 +0200 (CEST)
Organization: Mostly In Piles
Lines: 18
Message-ID: <Xns9B205C386C5F02MDWN@194.177.96.78>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
<2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com> <ca9b70ed-
a605-48d1-a879-e3b969422238@s50g2000hsb.googlegroups.com>
<Xns9B1764CBF94AE2MDWN@194.177.96.78> <443b04c6-c18f-43b2-
b709-871b0aae3cbb@k37g2000hsf.googlegroups.com>
<Xns9B17D3EB150302MDWN@194.177.96.78> <e6f6b189-
dbe1-43a8-8307-9ad29d4ba560@m44g2000hsc.googlegroups.com>
<Xns9B19AC552493D2MDWN@194.177.96.78>
<864a548a-00dd-433a-95a5-3bde58880214@34g2000hsh.googlegroups.com> <68d71c04-
d7f5-4708-a719-624679f150b6@25g2000hsx.googlegroups.com>
<yNydnVrnzd1sDlPVnZ2dnUVZ8j2dnZ2d@pipex.net> <18216228-3c5a-4cf2-ac38-
ea577aff8f6d@a70g2000hsh.googlegroups.com> <48cea46f$1_4@mk-
nntp-2.news.uk.tiscali.com> <dZKdnd86R5fnLFPVnZ2dneKdnZydnZ2d@pipex.net>
<d2624156-5f70-4a0e-a422-5c6a6502a723@m44g2000hsc.googlegroups.com>
NNTP-Posting-Host: Y2ZdlSRA3FNcDQwY5/NpTA.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news1.google.com rec.radio.amateur.homebrew:748

The designer of this power supply did something very wrong.
Using the safety/chassis ground as a power connection to
run 120V loads is dangerous. If you need to power 120V
loads run a neutral line or use a 240/120 transformer.

Safety ground should only be connected to the chassis,
faraday screens and Y-rated capacitors.

Neutral and safety ground eventually tie together so
it seems like an OK thing. It's not. It's a violation
of the NEC, any applicable safety standards and might
on the off chance cause serious injury or death.

> ==============>http://www.realhamradio.com/hvreg.pdf

```
From 2772061258036859606
X-Google-Thread: fc2a5,1a70b767cd70bc46
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers??  Opinions???
Date: Sun, 21 Sep 2008 19:30:57 +0100
Organization: Bias Comms
Lines: 12
Message-ID: <6jni6rF45o2qU1@mid.individual.net>
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
<LZiAk.29033$IB6.9166@bignews8.bellsouth.net> <6je7b6F2rhscU1@mid.individual.net>
<RTDAk.37908$vX2.17185@bignews6.bellsouth.net> <6jh2ueF3ab47U3@mid.individual.net>
<KTUAk.36335$Ep1.21799@bignews2.bellsouth.net>
<gLVAk.13934$wr1.13385@newsfe02.iad>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net sROpHYopmce5aIcMVS+hzAEtGbkMv41KkVmwjWPe6S08zwKb5Y
Cancel-Lock: sha1:BSAkqRaFMrBXnvIQxYLNYML+5YQ=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:749
```

Tio Pedro wrote:

> The 6JH8 should work as well as the 7360 in a receiver mixer.
> Swan changed to the 6JH8, probably for cost reasons.
> (http://members.shaw.ca/pacifictv/cartridg.htm)

I've tried both, and the 7360 wins by a long way - it probably proves
that "you get what you pay for"! The 7360 gave me useful conversion gain,
a spectacularly high intercept, and as low a noise figure as you could ever
wish for.

Bob

```
From 1087468205991315500
X-Google-Thread: fc2a5,1a70b767cd70bc46
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!f36g2000hsa.googlegroups.com!not-for-
mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
Date: Sun, 21 Sep 2008 13:22:57 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <6d2d9390-6da0-4ef7-99c3-56c7b345c223@f36g2000hsa.googlegroups.com>
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
<LZiAk.29033$IB6.9166@bignews8.bellsouth.net>
     <6je7b6F2rhscU1@mid.individual.net>
<RTDAk.37908$vX2.17185@bignews6.bellsouth.net>
     <6jh2ueF3ab47U3@mid.individual.net>
<KTUAk.36335$Ep1.21799@bignews2.bellsouth.net>
     <gLVAk.13934$wr1.13385@newsfe02.iad> <6jni6rF45o2qU1@mid.individual.net>
NNTP-Posting-Host: 64.12.117.200
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1222028578 919 127.0.0.1 (21 Sep 2008 20:22:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 21 Sep 2008 20:22:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f36g2000hsa.googlegroups.com; posting-host=64.12.117.200;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
     98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-mtc-th09.proxy.aol.com[400C70E9] (Prism/1.2.1),
     HTTP/1.1 cache-mtc-ah08.proxy.aol.com[400C75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:750
```

On Sep 21, 2:30=EF=BF=BDpm, Bob <biasco...@invalid.inv> wrote:
> Tio Pedro wrote:
> > The 6JH8 should work as well as the 7360 in a receiver mixer.
> > Swan changed to the 6JH8, probably for cost reasons.
> > (=EF=BF=BDhttp://members.shaw.ca/pacifictv/cartridg.htm)

That's true, but the Swan transceivers weren't using the 7360 as a receiving mixer. They were using it as the balanced modulator in the transmitter section, which is a very different job, and the 6JH8 was a low-cost alternative.

The 6JH8 could probably be used (with mods) in a lot of SSB transmitter projects from the hollowstate era, rather than the 7360.

> I've tried both, and the 7360 wins by a long way - it
> probably proves
> that "you get what you pay for"! =EF=BF=BDThe 7360 gave me
> useful conversion gain,
> a spectacularly high intercept, and as low a noise figure
> as you could ever
> wish for.
>

What circuit and values did you use, Bob? Voltages, balanced vs. unbalanced, output and input circuits, etc.?

73 de Jim, N2EY

```
From -9156106189013389627
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 21 Sep 2008 17:30:03 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Sun, 21 Sep 2008 15:30:04 -0700
Message-ID: <06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com>
References: <3qq3d4dfvig673vi45sjcpuqtdgnbeesun@4ax.com> <7487f40b-8dc0-4eb4-afbf-
b3d0874d01d7@79g2000hsk.googlegroups.com>
<f6k5d4dvd5g8dqtt0ret8t16lmumdpcp7c@4ax.com> <25935aba-66a1-42fe-bb11-
cd29672917cd@x35g2000hsb.googlegroups.com>
<33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-
ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 39
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-4Bgrd0sre/
HzgtxoTllaF0EDSiXf2neRTPzOGEw+BTcL7xd7gm50Wc8PzEUVGVNcp4J5pfKrfsdQTkq!1d7gTJMeho/
1xf5wjXs6eZOTmVqXf02JL6ehd+0fsXuTeSV0qynmzt438Urq44hIrJUVYqKC
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
```

X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:751

N2EY@aol.com wrote:

>AJ Lake <nom...@fakeaddress.com> wrote:

>I do have a [treaty] source. [3 listed]

But if the treaty had not required a code test for the 220 MHz Tech in the license change of 1951, do you think the hams of the day (both inside and outside the FCC) would have allowed a codeless ham to exist? It would have been scary to even express those thoughts aloud in those days, considering what you hear now, 50+ years later...

>> I haven't been an ARRL member since the dark days.
>When were these "dark days"?

Incentive Licensing. I have always voted with my wallet.

>The license is for operating, not building.

The Technician was meant for those who were more interested in VHF/UHF experimentation than HF operating.

>The basic argument against the code test comes down to this:
>Why should anyone have to learn it if they don't intend to use it?

I've heard that argument, but that's not why they quit the code test.

The reasons for a code test that once applied are no longer valid. No more military CW. No more ship to shore CW. No more WW2 ops needed. Ect ect ect. CW is now really obsolete for anything but hobby use. Making involuntary human modems has little value to the government any more.

>What happens is that the argument, taken to its logical conclusion,
>says there should be no real test at all.

The ham test should be about *modern* technology. Testing about past obsolete technology and practices such as tubes, mechanical RTTY, and code ect just doesn't make sense.

From 6096866898068778238
X-Google-Thread: fc2a5,1a70b767cd70bc46
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!

```
bignumber.bellsouth.net!news.bellsouth.net!bignews2.bellsouth.net.POSTED!ef55a73e!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
<LZiAk.29033$IB6.9166@bignews8.bellsouth.net>  <6je7b6F2rhscU1@mid.individual.net>
<RTDAk.37908$vX2.17185@bignews6.bellsouth.net>
<6jh2ueF3ab47U3@mid.individual.net> <KTUAk.36335$Ep1.21799@bignews2.bellsouth.net>
     <gLVAk.13934$wr1.13385@newsfe02.iad> <6jni6rF45o2qU1@mid.individual.net>
<6d2d9390-6da0-4ef7-99c3-56c7b345c223@f36g2000hsa.googlegroups.com>
In-Reply-To: <6d2d9390-6da0-4ef7-99c3-56c7b345c223@f36g2000hsa.googlegroups.com>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 110
Message-ID: <vhBBk.38886$Ep1.25547@bignews2.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcbobkklmefmekbomikfdblnnaonhahoklajgb
fiinndokammkcbeafbljgabgdeonjfiifpgghlmijcaappfgohllfnpflobdkbpafgfaaiineaepkk
NNTP-Posting-Date: Sun, 21 Sep 2008 20:03:39 EDT
Organization: BellSouth Internet Group
Date: Sun, 21 Sep 2008 20:08:28 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:752

N2EY@aol.com wrote:
> On Sep 21, 2:30�pm, Bob <biasco...@invalid.inv> wrote:
>> Tio Pedro wrote:
>>> The 6JH8 should work as well as the 7360 in a receiver mixer.
>>> Swan changed to the 6JH8, probably for cost reasons.
>>> ( �http://members.shaw.ca/pacifictv/cartridg.htm)
>
> That's true, but the Swan transceivers weren't using the 7360 as a
> receiving mixer. They were using it as the balanced modulator in the
> transmitter section, which is a very different job, and the 6JH8 was a
> low-cost alternative.
>
> The 6JH8 could probably be used (with mods) in a lot of SSB
> transmitter projects from the hollowstate era, rather than the 7360.
>
>> I've tried both, and the 7360 wins by a long way - it
>> probably proves
>> that "you get what you pay for"! �The 7360 gave me
>> useful conversion gain,
>> a spectacularly high intercept, and as low a noise figure
>> as you could ever
>> wish for.
>>
> What circuit and values did you use, Bob? Voltages, balanced vs.
> unbalanced, output and input circuits, etc.?
```

>
> 73 de Jim, N2EY

Just looked on bay.
Wow, the 7360 is as expensive as 1L6's!

```
From -4190758960010353O5
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc01.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <3qq3d4dfvig673vi45sjcpuqtdgnbeesun@4ax.com> <7487f40b-8dc0-4eb4-afbf-
b3d0874d01d7@79g2000hsk.googlegroups.com>
<f6k5d4dvd5g8dqtt0ret8t16lmumdpcp7c@4ax.com> <25935aba-66a1-42fe-bb11-
cd29672917cd@x35g2000hsb.googlegroups.com>
<33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-
ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com>
```

Subject: Re: CW is a hobby (off topic BWTH)
Lines: 42
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <MtFBk.650$8v5.418@trnddc01>
Date: Mon, 22 Sep 2008 04:49:48 GMT
NNTP-Posting-Host: 71.104.217.51
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc01 1222058988 71.104.217.51 (Mon, 22 Sep 2008 00:49:48 EDT)
NNTP-Posting-Date: Mon, 22 Sep 2008 00:49:48 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:753
X-Original-Bytes: 3881

> >The basic argument against the code test comes down to this:
> >Why should anyone have to learn it if they don't intend to use it?
>

Gee, if you don't plan on using the ham license, why bother taking a test?

An old Tech class Elmer that first taught me the code, told me you need it so you will know what repeater you are talking on.   I find Morse code useful but I can see how someone who doesn't know it might not find any use for it. Even I can't tell you what it's good for if you don't plan on using it. DUH.

I still have some Vinyl records and even a couple of 45s still. I like some Classical music too even though the people that wrote it are dead, I guess that makes it obsolete. So what's with these Heavy Metal bands where they are still using a Tube guitar amp and half of those guys have one foot in the grave anyway. Even the newest bands are old guys in their 30s with 15-20 year olds freaking all around them. Except for the Girl bands all but doing strip shows. That's kind of entertaining, but everytime they open their mouths, bubble gum and bullsqueek comes out. But then you have all these teen girls who idolize them and dress like strippers and everyone wonders why their teen daughters have all gone astray, but NOOO, they tell us we're OLD and don't know what were talking about because all their girlfriends are pregnant and had 15 abortions when they were 15, so why can't they have fun too. Just because they say the 50 yo migrant worker is cute and says he loves her, why can't she have him for a sleepover. ARGGGGHHE... but I digress. What is it with these NEWBIES telling us - We who know better - That Morse Code is useless.

I'll tell you one thing, E-mail isn't even faster than Morse Code. In fact they should do away with E-mail because it's slower than Morse Code. The fact that someone actually marketed a Blackberry smaller than a full size keyboard must have been tasked to find out how many idiots there are trying to push their lives through a microscopic keyboard when a Straight key you don't even have to look at to find the alphabet. Shouldn't cell phones have made them all obsolete? Come to think of it, these computers should be obsolete too because they are so much slower than cell phones. Or maybe because you can't even talk to people on the phone anymore because they are stuck sifting through their SPAM lists.

Just a few Wild-A** thoughts.

```
From -8402527771216664385
X-Google-Thread: fc2a5,ed200c69096e3c67
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Needed: Cinch 10 pin female socket
Date: Sun, 21 Sep 2008 23:14:54 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.09.22.06.14.54.815876@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <74248669-09f1-44e4-b897-ffd775929454@z66g2000hsc.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 14
Organization: Octanews
NNTP-Posting-Date: 22 Sep 2008 01:15:02 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:754
```

Hi,

Just the pin or the cap?

I use finishing nails for the pins as I usually break them getting them out :-\

If it's the little inner plastic cap thing, heatshrink tubing is a nice fix.

Cheers.

--
Gregg

```
From -7532325994585111000
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
```

border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 22 Sep 2008 02:13:38 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Mon, 22 Sep 2008 00:13:39 -0700
Message-ID: <a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com>
References: <f6k5d4dvd5g8dqtt0ret8t16lmumdpcp7c@4ax.com> <25935aba-66a1-42fe-bb11-
cd29672917cd@x35g2000hsb.googlegroups.com>
<33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-
ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <MtFBk.650$8v5.418@trnddc01>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 30
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-uFC/ly6exXwdzLJ/2FyiYSqodaq1gE+ZYGXOVPCGnAnS6RAVjK8D/
55BT0pnhVhGXTVnPtlfkL2/NPn!swReuPwGIe7MN19b/G/
aYF0K+iw7OEQGT6ZLSfeomH4ps6LukUOj90fZTA/COmNlz9atRzeQ
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:755

"JB" <nospam@goofball.net> wrote:

>I still have some Vinyl records and even a couple of 45s still.

Hopefully you still have the antique/obsolete equipment to play them.

>I like some Classical music too even though the people that wrote it
>are dead, I guess that makes it obsolete.

Classical music isn't obsolete. But the technology used to store it
can be obsolete (such as wire spool recording) or modern (such as
computer mp3 files).

>So what's with these Heavy Metal bands where they
>are still using a Tube guitar amp...

Tube guitar amps are supposed to sound better. Hard for me to tell
with all that intentional distortion they introduce into the music.

My old *tube* receivers still work fine even though they're antiques
(and quite obsolete). But in serious QRM/QRN I have to switch to my

modern rig with the receiver digital processing if I want to complete the QSO.

> We who know better - That Morse Code is useless.

CW is *not* useless. It's fun. It's all I ever use these days. Unfortunately the phone bands are often R rated so I left there years ago. CW is still a gentlemans band and great place to enjoy the CW *hobby*...

```
From -4145492584743642807
X-Google-Thread: fc2a5,1a70b767cd70bc46
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!
newsfeed01.sul.t-online.de!t-online.de!fu-berlin.de!uni-berlin.de!individual.net!
not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
Date: Mon, 22 Sep 2008 08:50:46 +0100
Organization: Bias Comms
Lines: 43
Message-ID: <6jp12hF4bnapU1@mid.individual.net>
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
<LZiAk.29033$IB6.9166@bignews8.bellsouth.net> <6je7b6F2rhscU1@mid.individual.net>
<RTDAk.37908$vX2.17185@bignews6.bellsouth.net> <6jh2ueF3ab47U3@mid.individual.net>
<KTUAk.36335$Ep1.21799@bignews2.bellsouth.net>
<gLVAk.13934$wr1.13385@newsfe02.iad> <6jni6rF45o2qU1@mid.individual.net>
<6d2d9390-6da0-4ef7-99c3-56c7b345c223@f36g2000hsa.googlegroups.com>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net RdNWOO9rkRknQNQ0G9DV9QfXk4V3Xa+HcFIU6pDqhs2WxL/N4G
Cancel-Lock: sha1:uJ8yzxdI79V0DB4juxcg0+Yr0VI=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:756
```

N2EY@aol.com wrote:

> What circuit and values did you use, Bob? Voltages, balanced vs.
> unbalanced, output and input circuits, etc.?

Balanced throughout! Supply is 130 V, and the deflection plates have a 10 k preset (to give DC balance) with the wiper going to the supply, and the ends connected to potential dividers (68 k and 10 k) to give 15 V at pins 8 and 9. The anodes are connected directly to the primary of a 10.7 MHz IF transformer, with the centre tap of the transformer going to the positive rail through a 220 ohm resistor. There is a fixed capacitor (of 100 pF) from one anode to ground, and the other anode has a parallel combination of 68 pF fixed and a 65 pF trimmer to ground to allow phase balance. Pin 3 (grid 1) has - 1.9 V bias fed through a 470 k resistor and is coupled to the top of an at-frequency tuned circuit - the high input impedance of the valve allows the tuned circuit to be connected without a tap. The bias line has to be well-decoupled (I used a 470 uF electrolytic) to prevent hum. The control grid (pin 2) is connected to the positive supply through a 470 ohm resistor, and is decoupled to ground with 10 nF.

The balanced local oscillator (a pair of 2N3819 FETs) is buffered by a pair of common emitter bipolar transistor stages (I used 2N3866, because I have a lot of them) and fed to the deflection plates in antiphase. IF rejection is roughly 60 dB, conversion gain is 25 dB. You can tune right through the IF frequency /without/ /a/ /whistle/ - which is unique in my experience!

I found the circuit values in the original valve specification, and they seem to be well optimised - I tried various alterations, but always to the detriment of performance.

The Kallitron oscillator is stabilised (in 10 Hz steps) with a huff-and-puff unit based on a PIC, which also provides a frequency readout on an LCD display.

Over the years, I've tried /every/ possible mixer topology, including the modern H-mode switching types (which are astonishingly good), but the 7360 can't be beaten.

The receiver is simply the best that I've ever used, even including some of the high-priced exotica that I saw and used at the BBC Caversham Monitoring department!

Bob

From 7925760582657633624
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!73g2000hsx.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Mon, 22 Sep 2008 01:54:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 37
Message-ID: <a94f0699-bb7b-468d-ac3c-29de6ca1366f@73g2000hsx.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
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Injection-Info: 73g2000hsx.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
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     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:757

On Sep 21, 10:03=A0am, Grumpy The Mule <s_foo...@foo.bar> wrote:
> The designer of this power supply did something very wrong.
> Using the safety/chassis ground as a power connection to
> run 120V loads is dangerous. =A0If you need to power 120V
> loads run a neutral line or use a 240/120 transformer.
>
> Safety ground should only be connected to the chassis,
> faraday screens and Y-rated capacitors.
>
> Neutral and safety ground eventually tie together so
> it seems like an OK thing. =A0It's not. =A0It's a violation
> of the NEC, any applicable safety standards and might
> on the off chance cause serious injury or death.
>
>
>
> > =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D>http://www.realhamradio.com/=
hvreg.pdf- Hide quoted text -
>
> - Show quoted text -

Yeah its a fool killer, Did you notice how they develop the Vcc.
 Im sure under the conditions
its designed to be used its safe enough but if you get enough
 hams tinkering with it someone might get killed.
David Smith kind of backed out of the project because of this.

I got sidetracked on this project a bit remodeling my bathrooms
but while prowling through my storage shed(junk box) I came across an
```

old SMPS, it s rated 48 volts at 50 amps. I was going to build a
big FET amp around it but never did. The output of it is just
rectifiers and filters connected to the transformer. There
is a second winding that is rectified and appears to develop
feedback voltage. I was thinking of building a step up transformer
and connecting it back to back with the transformer on
this power supply. I was also having thoughts of just replacing the
transformer with one designed for HV.

From 6330842256644694417
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Mon, 22 Sep 2008 10:17:41 +0100
Organization: Bias Comms
Lines: 28
Message-ID: <6jp65gF4dv26U1@mid.individual.net>
References: <f6k5d4dvd5g8dqtt0ret8t16lmumdpcp7c@4ax.com> <25935aba-66a1-42fe-bb11-
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Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:758

AJ Lake wrote:

>>So what's with these Heavy Metal bands where they
>>are still using a Tube guitar amp...
>
> *Tube* guitar amps are supposed to sound better.

They generally do. They introduce concordant (even order) harmonic
distortion, so are nicer to listen to.

> My old *tube* receivers still work fine even though they're antiques

> (and quite obsolete). But in serious QRM/QRN I have to switch to my
> modern rig with the receiver digital processing if I want to complete
> the QSO.

My valve (tube - U.S>.) receivers far out-perform /any/ semiconductor
receiver. I don't need any digital processing at all.

>> We who know better - That Morse Code is useless.
>
> CW is *not* useless. It's fun.

I can "work the world" on tiny power using CW, whereas I'd have to use
stupid amounts of power to get similar results with SSB. Also, the people
you meet on CW tend to be much more friendly!

C.

From -5207211133399193344
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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media.com!post02.iad.highwinds-media.com!newsfe01.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
<LZiAk.29033$IB6.9166@bignews8.bellsouth.net> <6je7b6F2rhscU1@mid.individual.net>
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<6d2d9390-6da0-4ef7-99c3-56c7b345c223@f36g2000hsa.googlegroups.com>
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Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
Lines: 21
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <4eKBk.18738$Dj1.12594@newsfe01.iad>
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Organization: Cox
Date: Mon, 22 Sep 2008 06:14:11 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:759

"Bob" <biascomms@invalid.inv> wrote in message
news:6jp12hF4bnapU1@mid.individual.net...

> N2EY@aol.com wrote:
> > Over the years, I've tried /every/ possible mixer topology, including
> the
> modern H-mode switching types (which are astonishingly good), but the 7360
> can't be beaten.
>
> > Bob

Hi Bob

A lot of folks have reported good results using the 6JH8 in place
of the 7360; with a few reporting better linearity. They appear
to be pretty much the same as far as performance. Have you tried
one?

Pete

```
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Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
Date: Mon, 22 Sep 2008 12:08:53 +0100
Organization: Bias Comms
Lines: 13
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User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:760
```

Tio Pedro wrote:

> A lot of folks have reported good results using the 6JH8 in place
> of the 7360; with a few reporting better linearity. They appear
> to be pretty much the same as far as performance. Have you tried
> one?

Yes I have. The results were disappointing compared to the 7360. Perhaps
my values weren't optimised. Maybe I should try again - the 6JH8 is /much/
cheaper!

Bob

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NNTP-Posting-Date: Mon, 22 Sep 2008 11:11:26 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Mon, 22 Sep 2008 09:11:27 -0700
Message-ID: <aqdfd4dbdj6vcn03ubfbuv33gnqrad8249@4ax.com>
References: <25935aba-66a1-42fe-bb11-cd29672917cd@x35g2000hsb.googlegroups.com>
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:761

Bob <biascomms@invalid.inv> wrote:

>My valve (tube - U.S>.) receivers far out-perform /any/ semiconductor
>receiver.

Your tube receivers outperform *any* semiconductor (solid state - U.S>.) receiver? I guess that would mean in all ways. That's a big claim. What receivers might those be?

>I don't need any digital processing at all.

Ah, I'm getting the picture now. You are firmly rooted in the past. Not unusual with old timers. The problem often is that we think everyone else should be the same. That's why it took so long to kill the code test.

>I can "work the world" on tiny power using CW, whereas I'd have to use
>stupid amounts of power to get similar results with SSB.

Less power needed is an advantage of CW. Also less antenna needed. I run 50 watts to a random wire 8' high (HOA stealth antenna) with quite satisfactory results. It's not a DX antenna, though I do snag one every now and then. CW ragchewing's my game, and I seldom fail to complete a QSO.

>Also, the people you meet on CW tend to be much more friendly!

Yes CW is a gentlemans band.

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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Mon, 22 Sep 2008 17:49:44 +0100
Organization: Bias Comms
Lines: 70
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Xref: g2news1.google.com rec.radio.amateur.homebrew:762

AJ Lake wrote:

> Bob <biascomms@invalid.inv> wrote:
>
>>My valve (tube - U.S>.) receivers far out-perform /any/ semiconductor
>>receiver.
>
> Your tube receivers outperform *any* semiconductor (solid state -
> U.S>.) receiver? I guess that would mean in all ways. That's a big
> claim. What receivers might those be?

Yes. In every way. Intermodulation, noise floor, selectivity, ultimate sensitivity, every parameter you can think of! The receivers were very carefully designed and constructed by me, (though taking advice from some of the "classic" designs), and have been widely tested against some really serious, exotic receivers!

>>I don't need any digital processing at all.
>
> Ah, I'm getting the picture now. You are firmly rooted in the past.

Not at all. I'm a professional electronics designer, and use the very latest technology when applicable. I haven't seen /any/ digital processor that assists me in actually picking signals out of QRM. I'd rather use tight filtering (RF, IF and AF), and synchronous demodulation when needed. The real trick is a receiver with extreme selectivity (not the bogus pseudo-selectivity given by digital filters with all their nasty artifacts) and a really low noise floor.

> Not unusual with old timers. The problem often is that we think
> everyone else should be the same. That's why it took so long to kill
> the code test.

Absolutely not - I'm happy for you if you're happy with your digital Rice Box - I'd rather use something *I* made and get results that often astonish my friends and colleagues.

>>I can "work the world" on tiny power using CW, whereas I'd have to use
>>stupid amounts of power to get similar results with SSB.

> Less power needed is an advantage of CW. Also less antenna needed. I
> run 50 watts to a random wire 8' high (HOA stealth antenna) with quite
> satisfactory results.

I have a loop over my garden (backyard - U.S.), which is (just) resonant on 7 Mhz and has a reasonable match on other bands. It's basically two long wires above each other, connected by a vertical section at the far end and with a transformer coupling at the house end (the transformer is 6 metres of UR 67, and the horizontal sections are about 9 metres long). It's not the world's greatest antenna, but works surprisingly well for its small size.

> It's not a DX antenna, though I do snag one every now and then.

Me too!

> CW ragchewing's my game, and I seldom fail to complete a QSO.

My latest game has been working on a /really/ simple and cheap frequency synthesiser and SSB generator that's not too critical in component values and easy to align. It's entirely digital!

>>Also, the people you meet on CW tend to be much more friendly!
>
> Yes CW is a gentlemans band.

Certainly is!

Bob

From -4558941430661950252
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Mon, 22 Sep 2008 17:52:13 +0100
Organization: Bias Comms
Lines: 5
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User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:763
```

Also - I seldom run more than 10 Watts on any band (unless conditions are really bad) and I seldom fail to complete a QSO!

Bob

```
From 4636921595687135572
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!cycny01.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <f6k5d4dvd5g8dqtt0ret8t16lmumdpcp7c@4ax.com> <25935aba-66a1-42fe-bb11-
cd29672917cd@x35g2000hsb.googlegroups.com>
<33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-
ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <MtFBk.650$8v5.418@trnddc01>
<a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com>
Subject: Re: CW is a hobby (off topic BWTH)
Lines: 13
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <KyQBk.553$Jw.18@nwrddc02.gnilink.net>
Date: Mon, 22 Sep 2008 17:26:02 GMT
NNTP-Posting-Host: 71.104.208.11
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1222104362 71.104.208.11 (Mon, 22 Sep 2008 13:26:02
EDT)
NNTP-Posting-Date: Mon, 22 Sep 2008 13:26:02 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3215
```

> CW is *not* useless. It's fun. It's all I ever use these days.
> Unfortunately the phone bands are often R rated so I left there years
> ago. CW is still a gentlemans band and great place to enjoy the CW
> *hobby*...

Which completely proves the point that resistance is not futile. That

having the patience to learn a skill will in fact tend to protect a valuable resource from degradation by being flooded with impulsive personalities.
The mentality that wants the FCC rules changed so that they can play music, false signals, profanity, deliberately interfere and act out in public, can't really petition for that, but they can petition to make it easier to have that capability and let nature take it's course.

```
From -5756680677825982971
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 22 Sep 2008 13:36:46 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Mon, 22 Sep 2008 11:36:47 -0700
Message-ID: <p5pfd4lu68ktebb75e1aot4ltv2osci2di@4ax.com>
References: <25935aba-66a1-42fe-bb11-cd29672917cd@x35g2000hsb.googlegroups.com>
<33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-
ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <MtFBk.650$8v5.418@trnddc01>
<a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com>
<KyQBk.553$Jw.18@nwrddc02.gnilink.net>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 8
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-TJDlmP9XdAv0sed+nRBrk/bRL2tU5+HcRCo7HN3T2GzP6+d7E5ESdFs/
Q1vxYM8sDMtx+51OxygySEe!Oxl0vTkKC9OF3Q7p+1qO9b/BFbg0f9ueZTxhjDMb+Hydl/
52F7qi4NVX0rDV7phsbPzKYgn3
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3217
```

"JB" <nospam@goofball.net> wrote:

>having the patience to learn a skill will in fact tend to protect a valuable
>resource from degradation by being flooded with impulsive personalities.

The old having to learn the code will keep the whacko's out just

doesn't stand up. The biggest offenders on the SSB 75M mess are code
tested Extras...

From 2701875270122010289
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 22 Sep 2008 13:36:45 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Mon, 22 Sep 2008 11:36:46 -0700
Message-ID: <38nfd4tuaqobee7u02p0kk95se7j0i8hsq@4ax.com>
References: <33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-
ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <MtFBk.650$8v5.418@trnddc01>
<a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com> <6jp65gF4dv26U1@mid.individual.net>
<aqdfd4dbdj6vcn03ubfbuv33gnqrad8249@4ax.com> <6jq0l3F4fgi4U1@mid.individual.net>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 24
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
L5P5fReWhSyhA2BCTZjNgFUaK5BM4w1W0tbfhTPiAqk+4PaGlLpxNUYASEbHd0i8bmDHSRigtgwMOel!
uAtEayEJslsx87E1sYMlxtd+9TP+IeZU8dGGzPPD7ANl4RhmTy18dzgGEGFgm9ps/Z7UFOyR
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3216

Bob <biascomms@invalid.inv> wrote:

>have been widely tested against some really
>serious, exotic receivers!

If you only tested your tube receiver against *some* receivers then
your claim about outperforming *all* SS receivers would be invalid.
'Absolute' statements will get you in trouble most of the time.

>I haven't seen /any/ digital processor
>that assists me in actually picking signals out of QRM.

You not having seen any doesn't mean there aren't any.

>pseudo-selectivity given by digital filters with all their nasty artifacts)

Selectivity is not usually my problem. With close neighbors and a low
wire antenna, it's man made noise that is my problem. Digital does
well with this.

>I'm happy for you if you're happy with your digital Rice Box

Yes we have hams here that are also 'Rice Box' prejudiced. Prejudice
for everything produced in Asia is silly these days.

From 4891196977947910762
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!newsfeed.kamp.net!newsfeed.kamp.net!newsfeed.freenet.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Mon, 22 Sep 2008 20:13:52 +0100
Organization: Bias Comms
Lines: 59
Message-ID: <6jq93bF4g1ptU1@mid.individual.net>
References: <33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <MtFBk.650$8v5.418@trnddc01>
<a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com> <6jp65gF4dv26U1@mid.individual.net>
<aqdfd4dbdj6vcn03ubfbuv33gnqrad8249@4ax.com> <6jq0l3F4fgi4U1@mid.individual.net>
<38nfd4tuaqobee7u02p0kk95se7j0i8hsq@4ax.com>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net kxiNvkiLlyafzXsNO4ldLwHAq7eixB06I/Ko+4old6Bgq5r4Z2
Cancel-Lock: sha1:YoStviuE3e3h4dUD2r1D3x2QjYg=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3218

AJ Lake wrote:

> If you only tested your tube receiver against *some* receivers then
> your claim about outperforming *all* SS receivers would be invalid.

I've tried them against the *very* *best* receivers available today, and
they win in /every/ respect. They're actually hybrid receivers - I happily

use semiconductors where they're more appropriate (like in synchronous demodulators, audio filters, audio amplifiers, local oscillators and so on), but the really crucial parts - the RF amplifier, first mixer, IF amplifiers and product detectors all use bottles.

There's one crucial parameter that's carefully omitted by most manufacturers, which is the behaviour of their receivers in the presence of strong adjacent frequency interference. The intermodulation, de-sensing and other disasters inherent with semiconductor designs mean that I'll get better results /every/ time.

I've designed /commercial/ solid-state receivers, and there's just *no* *way* to get results as good as can still be obtained from valves in crucial parts of them!

>>I haven't seen /any/ digital processor
>>that assists me in actually picking signals out of QRM.
>
> *You* not having seen any doesn't mean there aren't any.

I've tried most of the stuff on the market, and /none/ of it can really enhance a truly good receiver. They /might/ compensate for the obvious shortcomings of some of the more average receivers!

>>pseudo-selectivity given by digital filters with all their nasty
>>artifacts)
>
> Selectivity is not usually my problem. With close neighbors and a low
> wire antenna, it's man made noise that is my problem. Digital does
> well with this.

I'm in the happy situation that I don't suffer from too much of that, despite living in a city (London). There are some really effective noise-cancelling methods that have been published over the years - one approach I used successfully in my old QTH was the counterpoise method that was published years ago in RADCOM.

>>I'm happy for you if you're happy with your digital Rice Box
>
> Yes we have hams here that are also 'Rice Box' prejudiced.

I'm not prejudiced at all - as soon as Far East Asia produces something even half as good as I can build, I'll save time and effort and buy them! In the interim, I'll continue with what I consider to be the real essence of our hobby, and build the gear myself!

> Prejudice for everything produced in Asia is silly these days.

Not at all - they /still/ can't make a good mobile phone! 8-)

Bob

```
From 643675494745736214
X-Google-Thread: fc2a5,1a70b767cd70bc46
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe04.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
<LZiAk.29033$IB6.9166@bignews8.bellsouth.net> <6je7b6F2rhscU1@mid.individual.net>
<RTDAk.37908$vX2.17185@bignews6.bellsouth.net> <6jh2ueF3ab47U3@mid.individual.net>
<KTUAk.36335$Ep1.21799@bignews2.bellsouth.net>
<gLVAk.13934$wr1.13385@newsfe02.iad> <6jni6rF45o2qU1@mid.individual.net>
<6d2d9390-6da0-4ef7-99c3-56c7b345c223@f36g2000hsa.googlegroups.com>
<6jp12hF4bnapU1@mid.individual.net> <4eKBk.18738$Dj1.12594@newsfe01.iad>
<6jpcm0F4dqt4U1@mid.individual.net>
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <igTBk.40466$PK.20192@newsfe04.iad>
NNTP-Posting-Host: 72.192.52.79
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe04.iad 1222115470 72.192.52.79 (Mon, 22 Sep 2008 20:31:10 UTC)
NNTP-Posting-Date: Mon, 22 Sep 2008 20:31:10 UTC
Organization: Cox
Date: Mon, 22 Sep 2008 16:30:55 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:768
```

"Bob" <biascomms@invalid.inv> wrote in message
news:6jpcm0F4dqt4U1@mid.individual.net...
> Tio Pedro wrote:
>
>> A lot of folks have reported good results using the 6JH8 in place
>> of the 7360; with a few reporting better linearity. They appear
>> to be pretty much the same as far as performance. Have you tried
>> one?
>
> Yes I have. The results were disappointing compared to the 7360. Perhaps
> my values weren't optimised. Maybe I should try again - the 6JH8 is
> /much/
> cheaper!
>
> Bob
>

Yeah, and I had a shot at a sleeve of them for 60 bucks several months
back :(Unfortunately, they aren't going to get any less expensive as

time passes.

Pete

```
From -1302715144749743618
X-Google-Thread: 10c2ee,d01f3c86d4b73fd,start
X-Google-Thread: fc2a5,d01f3c86d4b73fd,start
X-Google-Thread: 1131b0,d01f3c86d4b73fd,start
X-Google-Attributes: gid10c2ee,gidfc2a5,gid1131b0,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!flpi089.ffdc.sbc.com!prodigy.net!
flpi088.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!flpi147.ffdc.sbc.com.POSTED!
c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Mallory date code ?
Lines: 11
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <xbUBk.1988$eb4.1400@flpi147.ffdc.sbc.com>
NNTP-Posting-Host: 70.143.48.47
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi147.ffdc.sbc.com 1222119261 ST000 70.143.48.47 (Mon, 22 Sep 2008
17:34:21 EDT)
NNTP-Posting-Date: Mon, 22 Sep 2008 17:34:21 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
SCSYQN_@FS@ERQXXKZOX_RXAUSXB@DTMNHWB_EYLJZ]BGIEL_NTKAH_[JTXDX_KI\VB]JBVMS^YT_G[CZV
WAOS\DHFWEH]@KGXYHB\_CMDSFABP^J[AHHRKARLE_JDBLJ\XA[JRMEI]MGJSPB\Y]^KG\@S^@VQKI_Q[G
@@_ACSARASDEFLBJ]S\GFNTUAVBL
Date: Mon, 22 Sep 2008 16:37:00 -0500
Xref: g2news2.google.com rec.antiques.radio+phono:32958
rec.radio.amateur.homebrew:3220 sci.electronics.repair:35200
```

Does anyone know the date codes that Mallory uses on their electrolytic
caps a 1900ufd at 450v? Here's a couple of lines..
CGS192T450X5L3PH
235-8112K
Thanks

--

73
Hank WD5JFR

```
From 3069501653534835683
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <25935aba-66a1-42fe-bb11-cd29672917cd@x35g2000hsb.googlegroups.com>
<33q7d4p6fr34nhoagabagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-
ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <MtFBk.650$8v5.418@trnddc01>
<a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com>
<KyQBk.553$Jw.18@nwrddc02.gnilink.net>
<p5pfd4lu68ktebb75e1aot4ltv2osci2di@4ax.com>
Subject: Re: CW is a hobby (off topic BWTH)
Lines: 30
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <R5VBk.727$MN3.244@nwrddc01.gnilink.net>
Date: Mon, 22 Sep 2008 22:36:33 GMT
NNTP-Posting-Host: 71.104.208.11
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1222122993 71.104.208.11 (Mon, 22 Sep 2008 18:36:33
EDT)
NNTP-Posting-Date: Mon, 22 Sep 2008 18:36:33 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3221
X-Original-Bytes: 3144
```

> >having the patience to learn a skill will in fact tend to protect a
valuable
> >resource from degradation by being flooded with impulsive personalities.
>
> The old having to learn the code will keep the whacko's out just
> doesn't stand up. The biggest offenders on the SSB 75M mess are code

> tested Extras...

Sure it does. You can't keep all the nuts out but you could make a big dent in the problem. The fact that so many nuts were whining and crying to be let in was proof of that. Some figured ways around the system. A VE team around here got busted selling licenses. Took their licenses away and called everyone in to retest elsewhere or lose their license too. Most of them got booted out. Yay!

Some of the nuts just blew a head gasket and learned from the other monkeys. Monkey see monkey do. Birds of a feather flock together. I suppose you think the fact that the nonsense is worse now is just society imploding It would probably be even worse but I suspect the only thing in the way of complete animal regression was Riley and the Ham Call Sign. If everybody quit using callsigns though there would be a bloodbath. They have the technology now to get a fix within a few seconds. If there were ever a push it would be an easy roundup. When they got tired of that they would just outlaw ham radio entirely. Up till now they have only made a real effort when vital services are jeopardized. They don't really consider ham radio a vital service anymore because ham radio is losing credibility.

Maybe you can think of some test or hoop besides CW to discourage the people that act out like morons because they lack self-control.

From 7669529085093052485
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <33q7d4p6fr34nhoagababagvj2f45hn82cj0@4ax.com> <97521a8a-60a9-491f-ba8a-6ee5a16fd92f@x35g2000hsb.googlegroups.com>
<lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <MtFBk.650$8v5.418@trnddc01>
<a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com> <6jp65gF4dv26U1@mid.individual.net>
<aqdfd4dbdj6vcn03ubfbuv33gnqrad8249@4ax.com> <6jq0l3F4fgi4U1@mid.individual.net>
<38nfd4tuaqobee7u02p0kk95se7j0i8hsq@4ax.com> <6jq93bF4g1ptU1@mid.individual.net>
Subject: Re: CW is a hobby (off topic BWTH)
Lines: 88
MIME-Version: 1.0
Content-Type: text/plain;
    charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal

X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <WKVBk.738$MN3.506@nwrddc01.gnilink.net>
Date: Mon, 22 Sep 2008 23:20:22 GMT
NNTP-Posting-Host: 71.104.208.11
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1222125622 71.104.208.11 (Mon, 22 Sep 2008 19:20:22
EDT)
NNTP-Posting-Date: Mon, 22 Sep 2008 19:20:22 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3222

"Bob" <biascomms@invalid.inv> wrote in message
news:6jq93bF4g1ptU1@mid.individual.net...
> AJ Lake wrote:
>
> > If you only tested your tube receiver against *some* receivers then
> > your claim about outperforming *all* SS receivers would be invalid.
>
> I've tried them against the *very* *best* receivers available today, and
> they win in /every/ respect. They're actually hybrid receivers - I
happily
> use semiconductors where they're more appropriate (like in synchronous
> demodulators, audio filters, audio amplifiers, local oscillators and so
> on), but the really crucial parts - the RF amplifier, first mixer, IF
> amplifiers and product detectors all use bottles.
>
> There's one crucial parameter that's carefully omitted by most
> manufacturers, which is the behaviour of their receivers in the presence
of
> strong adjacent frequency interference. The intermodulation, de-sensing
> and other disasters inherent with semiconductor designs mean that I'll get
> better results /every/ time.
>
> I've designed /commercial/ solid-state receivers, and there's just *no*
> *way* to get results as good as can still be obtained from valves in
> crucial parts of them!
>
> >>I haven't seen /any/ digital processor
> >>that assists me in actually picking signals out of QRM.
> >
> > *You* not having seen any doesn't mean there aren't any.
>
> I've tried most of the stuff on the market, and /none/ of it can really
> enhance a truly good receiver. They /might/ compensate for the obvious
> shortcomings of some of the more average receivers!
>
> >>pseudo-selectivity given by digital filters with all their nasty
> >>artifacts)
> >
> > Selectivity is not usually my problem. With close neighbors and a low
> > wire antenna, it's man made noise that is my problem. Digital does
> > well with this.

>
> I'm in the happy situation that I don't suffer from too much of that,
> despite living in a city (London). There are some really effective
> noise-cancelling methods that have been published over the years - one
> approach I used successfully in my old QTH was the counterpoise method that
> was published years ago in RADCOM.
>
> >>I'm happy for you if you're happy with your digital Rice Box
> >
> > Yes we have hams here that are also 'Rice Box' prejudiced.
>
> I'm not prejudiced at all - as soon as Far East Asia produces something even
> half as good as I can build, I'll save time and effort and buy them! In
> the interim, I'll continue with what I consider to be the real essence of
> our hobby, and build the gear myself!
>
> > Prejudice for everything produced in Asia is silly these days.
>
> Not at all - they /still/ can't make a good mobile phone! 8-)
>
> Bob

The biggest issue is manufacturing costs. DSP can do a few neat tricks, but most of those were doable with analog circuits. DSP also adds to the noise floor. What they are really doing is saving money on quality physical components like filtering. I had my TS2000 right next to my TS830 and the 830 sounded so much better I almost took the 2000 back. There seemed to be some high frequency noise that I really couldn't hear but I could sense it and it gave me a headache after a while. It actually FELT noisy. It wasn't until I hooked it up to my SP230 that I honestly couldn't tell the difference in the audio and performance of the 830 and all was well. BUT the TS830 had better adjacent frequency performance because of the 8 pole crystal filters. I would still have that radio but I had to move and made the choice for general coverage. I still have a TS130, and I use that at Field day to swap out those new high dollar big shot radios that can't hack the signal overload. It seems the TS130 uses Bandpass filters in the front end, injection and exciter stages in addition to the 8 pole crystal filters.

There are RF tubes that can do up to 10 meters with plenty of gain and much better overload capabilities than what's out there now. It might cost a fortune to use that quality of filtering in a general coverage receiver, but you COULD build a really first class hybrid that blows away what's out there.

From -7525507501755237346
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!

```
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 22 Sep 2008 19:24:15 -0500
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Mon, 22 Sep 2008 17:24:16 -0700
Message-ID: <f48gd49d4qgvsl8nvtnh20suq07j4b8b8h@4ax.com>
References: <lu98d4h32v50045tr1nfbjcaioogt593mc@4ax.com> <c5661e9b-a347-4b33-
bc52-0ca30a2682c8@k7g2000hsd.googlegroups.com>
<06cdd4dfkueso8hphmlcpv09lpnbsd94kd@4ax.com> <MtFBk.650$8v5.418@trnddc01>
<a9ded45u78cviggah5mi5s504qu75ldu0a@4ax.com> <6jp65gF4dv26U1@mid.individual.net>
<aqdfd4dbdj6vcn03ubfbuv33gnqrad8249@4ax.com> <6jq0l3F4fgi4U1@mid.individual.net>
<38nfd4tuaqobee7u02p0kk95se7j0i8hsq@4ax.com> <6jq93bF4g1ptU1@mid.individual.net>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 31
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-cgu3xu49D4rBUKBoH4p2iXGMfh3qr2PM9VCi2X6jBW8tr4R4dZAU6DvNkVi+4AVqBQ/
BfejPUlRmy96!
PsYimwdtrXX34T4wutPoNbHb51bTkyJURBldQtlB8RCd30aQRHkv3ZHwl+cwLRVdEGOghXMB
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3223
```

Bob <biascomms@invalid.inv> wrote:

>I've designed /commercial/ solid-state receivers, and there's just *no*
>*way* to get results as good as can still be obtained from valves in
>crucial parts of them!

The rest of the transceiver industry (other than you) apparently thinks tube embedded HF transceivers are quite obsolete for a wide variety of reasons. Else they would be manufacturing and selling them. Even ham magazines print mostly solid state articles using modern solid state parts, which is right since hams should learn to use modern technology. When they do print a tube article it's usually described as nostalgia.

>I'm not prejudiced at all -

You used the term "Rice Box" to describe your dislike of a whole range of several hundred ham tranceivers. Different manufacturers. Different models. Pure prejudice. Logically you should judge equipment on its individual merits, not by the race of the people who made it.

>I'll continue with what I consider to be the real essence of

>our hobby, and build the gear myself!

Building is but *one* facet of the hobby. Professional engineer hams capable of designing and building transceivers are a but very very tiny part of the hobby...

>Not at all - they [Asians] /still/ can't make a good mobile phone! 8-)

As I said prejudiced...

```
From 3513479744603730177
X-Google-Thread: 108122,9c4713405df58025,start
X-Google-Thread: fc2a5,9c4713405df58025,start
X-Google-Thread: 107ada,9c4713405df58025,start
X-Google-Thread: 10bf43,9c4713405df58025,start
X-Google-Attributes:
gid108122,gidfc2a5,gid107ada,gid10bf43,domainid0,public,usenet
X-Google-Language: RUSSIAN,KOI8R
Path: g2news2.google.com!postnews.google.com!59g2000hsb.googlegroups.com!not-for-
mail
From: tamarmadgecay@gmail.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
radio.amateur.policy
Subject: =?KOI8-R?B?18nExc8g4tLJ1M7JIMkg68XXyc7BLg==?=
Date: Tue, 9 Sep 2008 10:15:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 2
Message-ID: <ad600da9-6bba-45fe-a5f3-14eca1e4ed52@59g2000hsb.googlegroups.com>
NNTP-Posting-Host: 92.112.144.22
Mime-Version: 1.0
Content-Type: text/plain; charset=KOI8-R
Content-Transfer-Encoding: base64
X-Trace: posting.google.com 1220980556 21292 127.0.0.1 (9 Sep 2008 17:15:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 9 Sep 2008 17:15:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 59g2000hsb.googlegroups.com; posting-host=92.112.144.22;
     posting-account=lpvsOQoAAADrItjCNLUGUA4f5NKzjLsd
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; WebMoney
     Advisor; Avant Browser;  Embedded Web Browser from: http://bsalsa.com/; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.equipment:2917
rec.radio.amateur.homebrew:3069 rec.radio.amateur.misc:9025
rec.radio.amateur.policy:35514
```

883P1NLJLCDLwcsgz87BINPP08XUIN7Mxc4sIM/OwSDM1d7bwdEhICBodHRwOi8vcmFnZGFpLmlu
Zm8vZ29sYXlhLXByYXZkYS5odG0NCvzUzyDXycTFzyDT1dDF0iE=

From -7660803062698581026

X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Tue, 09 Sep 2008 10:31:07 -0700
Organization: Aioe.org NNTP Server
Lines: 13
Message-ID: <p3cdc4trk2no18blppr7svmnn3moq5ebvv@4ax.com>
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<Xns9B1479DA0DD7EVeebleFetzer@127.0.0.1>
NNTP-Posting-Host: hSgUdE1qkWL2GDcXQDk/hg.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Agent 1.91/32.564
Xref: g2news2.google.com rec.radio.amateur.homebrew:3070

Bert Hyman <bert@iphouse.com> wrote:
>nomail@fakeaddress.com (AJ Lake) wrote in

>> Got my Novice in 57. Been doing CW ever since. But only as a hobby
>
>You do realize that ham radio itself is only a hobby, don't you?

In the 50s some hams I knew not only used ham radio
as a hobby but actually got paid for working CW, either aboard
ship or at coastal commercial radio stations. I had the CW
(and technical) skills at the time to be considered for employment.

So as I said I've worked CW since 57 but only as a hobby...

From 7116768957568427945
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc01.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
Subject: Re: CW is a hobby (off topic BWTH)
Lines: 55
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <gzyxk.913$Wd.22@trnddc01>
Date: Tue, 09 Sep 2008 17:41:32 GMT
NNTP-Posting-Host: 71.104.216.103
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc01 1220982092 71.104.216.103 (Tue, 09 Sep 2008 13:41:32 EDT)
NNTP-Posting-Date: Tue, 09 Sep 2008 13:41:32 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3071
X-Original-Bytes: 2824

> I changed the header subject to better reflect the discussion.

Unfortunately we lose the thread that way: I think here is where it
departed:
"raypsi" <RBorowiak@gmail.com> wrote in message
news:7509c4db-2511-45f2-a4ee-f3a9e1801742@26g2000hsk.googlegroups.com...
On Sep 3, 2:54 pm, Michael Black <et...@ncf.ca> wrote:
> On Wed, 3 Sep 2008, raypsi wrote:
> > Hey Gary,
>
> > Rocks aren't cheap ...
I know the real reason crystals took a back seat, and it's not what anybody
thinks
happened.

73 OM

n8zu
>
> >now even the Extra Class is code free.
>
> As is the free memorization EC exam. No real electronic knowledge
> required to pass.

And no experience necessary.

> Typewriters, VCRs and CW are all obsolete by todays
> technical standards. Some still use them because like
> you and I they like to. That doesn't make them less old
> technology. (Think horse/buggy analogy)

So obsolete means there is no commercial or consumer application that
immediately comes to mind, or does it mean that it is fun to do???

So the word "obsolete" is a subjective word reflecting your own usage.
Could something be obsolete if it was old but was better suited to your
application? Or does that make your application obsolete? Is the
automobile obsolete because of air travel? Is rail transportation obsolete
because of trucks? Does obsolete most often refer to something you don't
want someone else to use? Is the word "obsolete" obsolete because too many
definitions have become attatched to it?

> >OK WHICH DIGITAL do you use.

> Head copy.
> > how are you going to make the contact that is gone in 60 seconds
> I'm not. I prefer CW ragchewing. Different strokes...

Bingo! Now what of the guy that has called CQ two or three times and goes
away?
Head copy is the only way to pounce on the contact before they QSY or
someone else picks them up.

It means YOUR BRAIN might not be obsolete after all!!

From -5818209975254935075
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news.acm.uiuc.edu!
news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Tue, 9 Sep 2008 13:49:04 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 35
Sender: et472@208-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.0809091344450.12702@darkstar.example.org>
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
NNTP-Posting-Host: 208-215-235-64-ppp.3menatwork.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1220982551 3585 64.235.215.208 (9 Sep 2008 17:49:11 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 9 Sep 2008 17:49:11 GMT
In-Reply-To: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3072

On Mon, 8 Sep 2008, AJ Lake wrote:

>
I changed the header subject to better reflect the discussion.
>
If it's off-topic enough that you know to change the subject,
then take it elsewhere.

I should have posted last night before all the other carpetbaggers
came out of the woodwork, but foolishly hesitated.

You have no history here, yet you pounce the minute someone posts
about CW, someone who has been here a long time. And then a bunch
of others suddenly appear, even though they don't post about building
amateur radio equipment here.

There is rec.radio.amateur.policy and rec.radio.amateur.misc and even rec.radio.amateur.moderated where you can have your debates to your heart's content. And surely you and the other carpetbaggers would fit in better there, since you don't have anything to say about building radios.

This is not the first time you pouncers have landed here. The last time I remember it happening, the one idiot even cross-posted his reply to rec.radio.amateur.antennas, even though the topic fit neither newsgroup. I didn't read the newsgroup for a month after that, even though I've been reading and posting here for over a decade.

It's idiots like you that kill the newsgroups, seeing offtopic posts as perfectly fine, while those who want to talk about what the newsgroup is about slowly disappear.

Keep the trash out of here, you and the other carpetbaggers.

   Michael VE2BVW

From 7889855887665568675
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!aioe.org!not-for-mail
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Tue, 09 Sep 2008 10:52:59 -0700
Organization: Aioe.org NNTP Server
Lines: 29
Message-ID: <0scdc4582ltglcqt8vnp5r1an55h71nnr3@4ax.com>
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com> <878wu2urfu.fsf@hummer.cluon.com> <956f3fee-69e8-4782-bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
NNTP-Posting-Host: hSgUdE1qkWL2GDcXQDk/hg.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Agent 1.91/32.564
Xref: g2news2.google.com rec.radio.amateur.homebrew:3073

Tim Shoppa <shoppa@trailing-edge.com> wrote:

>The controversy in the 70's was the Technician license, a ticket that
>required no code,

Interestingly in the 50s the Technician (and Novice) was given by mail. And any ham friend could give you the code test. Anyone else could proctor your exam and certify that you were honest. However I'm sure it won't surprise you to learn that there were many Techs who never took a code test and had open book exams.

I always wondered why if the Tech was an experimenters license as the FCC claimed it was, why they required a code test.

The Tech was a very popular license, especially in the late 50s when we had the best sun spot peak on record. I had a modest Globe Scout 680 with about 20W out on 6 meters to a 5 element Taco beam up about 30' , AM of course. The Rx was a war surplus BC455 (7$ brand new mail order) and an International Crystal 6 meter converter. The Tx was crystal controlled so you called CQ and then tuned the lower band for an answer. The band was open stateside every day and my state count on 6M was in the 40s before I got my General and moved to 10M which was even better. DX openings were often and my country count was in the 50s. That was indeed a fun time...

From 6501477050813841335
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Tue, 09 Sep 2008 11:13:58 -0700
Organization: Aioe.org NNTP Server
Lines: 33
Message-ID: <abedc4dl2dtduufclno30koh69srg5gmvn@4ax.com>
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<Pine.LNX.4.64.0809091344450.12702@darkstar.example.org>
NNTP-Posting-Host: hSgUdE1qkWL2GDcXQDk/hg.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Agent 1.91/32.564
Xref: g2news1.google.com rec.radio.amateur.homebrew:623

Michael Black <et472@ncf.ca> wrote:

>If it's off-topic enough that you know to change the subject,
>then take it elsewhere.

Ah, another net cop with no delete key.

>You have no history here, yet you pounce the minute someone posts
>about CW, someone who has been here a long time.

I've been in these groups since the early 90s. I used to identify
but had a bad experience with a net cop.

> And then a bunch
>of others suddenly appear, even though they don't post about building
>amateur radio equipment here.

Off topic happens. Heck they're talking God stuff in the
antenna group. Why aren't you complaining there?
And who's it hurt anyway? It's not like this place is
flooded with posts every day.

>There is rec.radio.amateur.policy

Right. The kooks have taken over rrap with their profanity and
other sick stuff. That was a fun group some years back

>It's idiots like you that kill the newsgroups

No I think the name calling and net cops are the ones who drive
people away, so keep it up and you will get your wish. In the
meantime just be cool and the thread will die a natural
death, they always do...

From -3008118949158876890
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Tue, 09 Sep 2008 11:30:20 -0700
Organization: Aioe.org NNTP Server
Lines: 22
Message-ID: <agfdc4hk3n57i4gst7sm48uv4k8mttu39t@4ax.com>
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<gzyxk.913$Wd.22@trnddc01>
NNTP-Posting-Host: hSgUdE1qkWL2GDcXQDk/hg.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Agent 1.91/32.564
Xref: g2news2.google.com rec.radio.amateur.homebrew:3075

"JB" <nospam@goofball.net> wrote:

>So the word "obsolete" is a subjective word reflecting your own usage.

Yes the word obsolete is very subjective. And it "obsolete" means different things to different people. My posts here are my *opinion*. You have stated that you have a different opinion. We have a discussion. That makes it interesting and is why we are all here.

>Head copy is the only way to pounce on the contact before they QSY or
>someone else picks them up.

Yes for contest or DX operation. But for relaxing CW operation a computer can do just fine. Some of my recent QSOs have been with people who admittedly don't know CW and are using a computer. I don't mind as we are both having fun.

>It means YOUR BRAIN might not be obsolete after all!!

My brain is becoming very obsolete in recent years,
very scary...

From 7876530134470623943
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.posted.cpinternet!news.posted.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 09 Sep 2008 13:36:50 -0500
Date: Tue, 09 Sep 2008 13:42:27 -0500
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com> <Pine.LNX.4.64.0809091344450.12702@darkstar.example.org>
In-Reply-To: <Pine.LNX.4.64.0809091344450.12702@darkstar.example.org>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <vpGdnXcyrOreX1vVnZ2dnUVZ_qrinZ2d@posted.cpinternet>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-
XjQvO+NaJDMPf8hrYOxpg8MXU5QztFd1InYLHGzTLEDZoGcb9xGc08UHXYKSQTRHhopJJ66kZYw7Ksz!3ZUbDCM0AsTN/Zi3lZNcQKa6jkA/wzoLPHrM+OnDrjlo7+J0kn0ru3T/zapoTLqcewwTbnZeh3JL!YCQL/jVU7MU2eW0XcC7EPA==

X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3076

Michael Black wrote:

> On Mon, 8 Sep 2008, AJ Lake wrote:
>>
>> I changed the header subject to better reflect the discussion.

> If it's off-topic enough that you know to change the subject,
> then take it elsewhere.

<snip>

> And surely you and the other carpetbaggers
> would fit in better there, since you don't have anything to say
> about building radios.

Au contraire mon ami; most of the replies include descriptions of homebrew
efforts relating to license classes and FWIW, I recognize most of the
respondents as previous posters to this N.G. I for one have appreciated
this discussion.

Regards,

Michael

From -1157751664850441405
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 09 Sep 2008 15:48:45 -0500
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<Pine.LNX.4.64.0809091344450.12702@darkstar.example.org>
<abedc4dl2dtduufclno30koh69srg5gmvn@4ax.com>
Subject: Re: CW is a hobby (off topic BWTH)
Date: Tue, 9 Sep 2008 16:48:38 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579

```
X-RFC2646: Format=Flowed; Original
Message-ID: <O6KdnRuPraWwfFvVnZ2dnUVZ_uWdnZ2d@comcast.com>
Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 98.243.145.110
X-Trace: sv3-FRp4AEa34Gf/9LZ8oieajaqDZgKtVfJwcHlG3i27sUaqzPcFdGhQ+pxObae/
SFcglOWhqsyZ8ksSO/X!BfJspmlkw3NRHGxWmwDWs6SUKfoPXJQExpqLQPaaKW+CgxMm/
uIt2pUjbwEA20c+tf9GqsRcrIzW!IEp++IU/mPvPUa/SisWe/2Z674lqAic=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3077


"AJ Lake" <nomail@fakeaddress.com> wrote in message
news:abedc4dl2dtduufclno30koh69srg5gmvn@4ax.com...
> Michael Black <et472@ncf.ca> wrote:
>

[snip]

>>There is rec.radio.amateur.policy
>
> Right. The kooks have taken over rrap with their profanity and
> other sick stuff. That was a fun group some years back
>
>>It's idiots like you that kill the newsgroups
>
> No I think the name calling and net cops are the ones who drive
> people away, so keep it up and you will get your wish. In the
> meantime just be cool and the thread will die a natural
> death, they always do...

rec.radio.amateur.policy was destroyed almost single-handedly by one
individual.  Although others made it somewhat of a sewer, he put it into the
coffin and drove the nails and buried it.  I've deleted that newsgroup from
my list entirely as it is completely useless now.




From -6632004624946375496
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.k-dsl.de!aioe.org!
not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
```

Subject: Re: microwave oven inverter P.S. revisited
Date: Wed, 10 Sep 2008 01:50:37 +0200 (CEST)
Organization: Mostly In Piles
Lines: 21
Message-ID: <Xns9B14BFB0AE0B42MDWN@194.177.96.78>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
<2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com>
<eff414ad-3498-41b5-b0d3-0c8c2bc67daf@m45g2000hsb.googlegroups.com>
<4271c502-6b97-4b18-8d70-b5e05372cbc7@p25g2000hsf.googlegroups.com>
<xcSdnWqxlJtW917VnZ2dnUVZ_tjinZ2d@posted.cpinternet> <60f04717-818a-47b7-8aa5-a879bb551155@w7g2000hsa.googlegroups.com> <Xns9B12A2B424C882MDWN@194.177.96.78>
<Xns9B12CD624FE752MDWN@194.177.96.78> <Xns9B12D8C833BE02MDWN@194.177.96.78>
<0d347e43-d718-4f8c-a1da-620c2a60a472@a1g2000hsb.googlegroups.com>
<Xns9B13256B78F62MDWN@194.177.96.78> <4c85e482-d4e9-4553-aed7-7de32f2e9786@c65g2000hsa.googlegroups.com> <2eGdnflJqPAwo1jVnZ2dnUVZ_h-dnZ2d@posted.cpinternet> <3b5ac1cc-c1b7-4c73-948d-92fc8a40f1c4@l64g2000hse.googlegroups.com>
<Xns9B13B9538BB5A2MDWN@194.177.96.78> <d531292f-3f87-4a8d-bc37-e5a34bfde383@f36g2000hsa.googlegroups.com>
NNTP-Posting-Host: zmfgTEqf0jgE2J58GcMn5g.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news2.google.com rec.radio.amateur.homebrew:3078

Ok, this should work. http://tinyurl.com/6at4zu

> I mean the primary of this thing uses litz wire that looks like 10AWG
> wire about 13 turns around the core
> and they using 4 strands of 28 AWG to run the filament
> The HV secondary measures only 6.8 ohms DC.

I'm glad you mentioned that. If the core is ferrite and it's gapped, then the litz makes sense to reduce eddy current losses from the fringing field sprayed out of the gap. A gapped core would also most likely mean it is a flyback.

It really is amazing the power density SMPS can achieve. Though the overload capacity available from big hunks of iron and copper isn't to be discounted lightly. I had to pick up a 10KW autotransformer today. I don't know how much it weighed but I'd guess 130lbs, or there about. The two transformers in the 10KW SMPS are maybe four pounds total.

From 93436679870794842
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!

news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 10 Sep 2008 01:19:07 -0500
From: "Bryan" <bryan.swadenerNOSPAM@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<878wu2urfu.fsf@hummer.cluon.com> <956f3fee-69e8-4782-
bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
Subject: Re: CW is a hobby (off topic BWTH)
Date: Tue, 9 Sep 2008 23:19:13 -0700
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
rVY0UP279WOEI1GL11C+3paEFy0o0EkOanQXZr36+DL0ze+TkHkKL91OcKOCDAozpoHGFK6UwLQMTUE!
9dyq7Smrdu9GSrndEW/Ryy0a+JugaWsjBjI+YsFSxLXjLiKAHcY6IVL8x86Loj2ph47Q3p0g4DA=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3079

Tim Shoppa wrote:
[snip]
The controversy in the 70's was the Technician license, a ticket that required no code, as a way to get some CB'ers to take notice. I myself came to ham radio in the 70's but had no interest in anything having to do with Technician privileges. I know many other hams who did come in that way in the 70's, 80's, etc.

Tim N3QE

The original Technician license required passing of a 5wpm receiving & sending Morse test.

73,
Bryan WA7PRC

From -5460826571628786286
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!

nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 10 Sep 2008 05:54:03 -0500
Date: Wed, 10 Sep 2008 10:54:02 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<878wu2urfu.fsf@hummer.cluon.com> <956f3fee-69e8-4782-
bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
<ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
In-Reply-To: <ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <GvmdnTUQnMjWOlrVnZ2dnUVZ_tHinZ2d@bright.net>
Lines: 28
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-GXxcDw6iRJN+oLIiFc6SY9YES1M9Kq5nw9BQ/jWzNAlAyGx60B/E7gOkzaxkdUiG/
2PCuoAYFgvC3ZA!
ApcMKcUZ2iDcig98VkQ7vrDgudbCtgsYLdMxstQhTF8CvTFOR7TZjbh8S5W9HgwzVS9aoRHfVgMd!
ZrDyiPAHwg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:629

Bryan wrote:
> Tim Shoppa wrote:
> [snip]
> The controversy in the 70's was the Technician license, a ticket that
> required no code, as a way to get some CB'ers to take notice. I myself
> came to ham radio in the 70's but had no interest in anything having
> to do with Technician privileges. I know many other hams who did come
> in that way in the 70's, 80's, etc.
>
> Tim N3QE
>
> The original Technician license required passing of a 5wpm receiving &
> sending Morse test.
>
> 73,
> Bryan WA7PRC
>
>

I concur from experience in 1982 when I got my Tech license. I had to
take the 5WPM code test at the FCC office. We had the same HF
privileges as Novices and could operate on any frequency above 50.000

MHz. I can't recall, but I "THINK" the first code-free Tech licenses
did not have HF privileges. Now that there is no code requirement for
any class, I think Techs have some HF privileges again...a bit confusing ;)

Scott
N0EDV

```
From -683193902250569813
X-Google-Thread: 10f7a7,89c93a4510653fc8
X-Google-Thread: 114aac,89c93a4510653fc8
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes:
gid10f7a7,gid114aac,gid106d41,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!newsfeed2.telusplanet.net!newsfeed.telus.net!edtnps83.POSTED!53ab2750!
not-for-mail
From: The Black Goat With A Thousand Young <ancient_ones@shoggoths.rule>
Organization: Cult of Shub-Niggurath
Subject: Re: VoiceMax Speech Processor...
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table)
Message-Id: <pan.2008.09.10.12.04.24.72621@ia.ia.nngh.yog.sothoth.neblod.zin>
Newsgroups:
alt.usenet.kooks,rec.radio.shortwave,rec.radio.cb,rec.radio.amateur.policy,rec.rad
io.amateur.homebrew
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
<jZX1k.2010$nD3.912@newsfe15.lga> <57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
<86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
<i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com> <75671283-a0ce-469c-
a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
<sl1154du7jqb1g99kin78cssmsods2dqjg@4ax.com> <zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
<c2363b23-32a8-4578-b3f2-e9ee71eeb050@d1g2000hsg.googlegroups.com>
<CY6CqrA2ZRUIFwKg@g3ohx.demon.co.uk> <28149a87-09f2-4778-
aece-7533b162308f@34g2000hsh.googlegroups.com> <1033a23b-2c66-49ca-
bb98-5703be6a2706@t54g2000hsg.googlegroups.com>
<8f09fc76-04c8-4d98-85db-2db433e50f3c@e39g2000hsf.googlegroups.com>
<CO7kk.1134$3l5.125@newsfe06.iad> <c13d99b5-d12d-402b-ad30-
ac866cf33622@59g2000hsb.googlegroups.com>
Reply-To: Official Chung Demon <popesnarky@caballista.org>
X-Sombrero-#: COOSN-029-06-71069
X-Names: Henry Schmidt, Devon MacKinnon, Chas. E. Pemberton, Clayton McGill, Lola
Stonewall Riot, Snarky, Leola Stilmack, Frogbutt, DUH-ane Arnold, Kadaitcha Man,
Snit, Farrel Manne, Bertie the Bunyip, Matt Moulton, Greg (Morrow?), Benedict
Snodgrass Jr, David St. Albans, Leslie Paulin, Walton S. Piddlemore III, Emo
Haircut
X-Wearer: Holey FAGGOT Hat
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 376
```

Date: Wed, 10 Sep 2008 12:04:43 GMT
NNTP-Posting-Host: 66.183.26.89
X-Trace: edtnps83 1221048283 66.183.26.89 (Wed, 10 Sep 2008 06:04:43 MDT)
NNTP-Posting-Date: Wed, 10 Sep 2008 06:04:43 MDT
Xref: g2news1.google.com alt.usenet.kooks:62652 rec.radio.shortwave:11158
rec.radio.cb:2361 rec.radio.amateur.policy:9079 rec.radio.amateur.homebrew:630

On Sun, 03 Aug 2008 14:19:24 -0700, KnobGobblerMorkie@Mail2Princess.Com,
of the Mark Morgan Fan Club, fixed me with a beady eye, and foamed wildly:
> On Jul 30, 7:36�pm, "Tio Pedro" wrote:
>> "Telstar Electronics" wrote
>> �This
>>
>> DF4ZS is a clipping type processor... nothing like the VoiceMax audio
>> compressor.
>>
>> That is true. �SSB RF clipping is proven to deliver an honest 6 dB
>> improvement.
>
>
>
> Remember way back when this was posted? Dam..... I wish YZ the great
> one was still posting here!!
>
> <PROCEEDING> 98-143
> <DATE> 11.27.98
> <NAME> STEVEN JAMES ROBESON
> <ADDRESS1> HCR65 BOX 572
> <ADDRESS2> POB 2103
> <CITY> DUNLAP
> <STATE> TN
> <ZIP> 37327
> <LAW FIRM> NONE
> <ATTORNEY> NONE
> <FILE NUMBER> NONE
> <DOCUMENT-TYPE> CO
> <CONFIDENTIAL> N
> <PHONE NUMBER> (???) -???-????
> <DESCRIPTION> Comments on WT 98-143
> <NOTIFY> erlpnk...@aol.com
> <TEXT>
>
>
>
>
> To the Members of the Commission Assembled:
>
>
>   I am Steven Robeson. I have been a licensee in the Amateur Radio
> Service
> since 1972 and am presently the licensee of Amateur Radio Station K4YZ
> and hold
> an Amateur Extra Class Operators license. I comment to you today on the

> matter of WT 98-143.
>
> There can be no doubt that there has been quantum leaps in the field of radiocommunication since the last major rewrite of Part 97. This includes the "Incentive Licensing" system that was implemented in the late 1960's. It is clearly time to change the system.
>
> The Commission has solicited comments relative to that circumstance, and I hope the following will be considered in that act.
>
> First of all, I would like to wholeheartedly approve of the concept of reducing the number of Amateur License classes from six to four. There is much confusion as to "who's who" as it is now, and a reduction in the licensing process would alleviate that disparity. As such, I envision the following as being appropriate for said restructuring:
>
> Amateur Class D: The Amateur Class D license would become the de facto "entry class" license for the Amateur Service. In light of the grossly decreased demand for the Novice License and reduced useage of the sub-bands allocated for thier use, I would deactivate it as the "entry class" licenese. The Class D License would for all intents and purposes be the same as the current "Codeless Technician" class license. The examination for this license would remove questions pertaining to HF (1.8 to 30 MHZ) theory and operation, and be strictly limited to matters pertaining to VHF/UHF theory and operation, regulatory matters and Amateur practice. All Amateur privileges above 30 MHZ would be conveyed to the successful applicant.
>
> Amateur Class C: The Class C license would be the entry level license for operation on the HF spectrum. It would require the successful applicant either hold a Class D license, or successfully complete the Class D examination in

> addition to an examination on basic HF theory, propagation and practice.
> It
> would also require an examination in proficiency in the sending and
> receiving
> of Morse Code at a speed of not more than 5 (five) words per minute.
> Persons
> presently holding a Novice Class License or Technician Plus license
> would be
> grandfathered into this class of license, except that they would be
> required to
> take a 20 question open book examination at a VE Testing Session on the
> privileges and restrictions of the Class C License prior to utilizing
> those
> privileges. Allocations would include those presently enjoyed by the
> Amateur
> General Class licensee except for operation of the 160, 30, 17 and 12
> meter
> bands.
>
>
> Class B: The Class B license would incorporate the present
> Amateur
> General and Amateur Advanced license. All amateur priviledges as are
> presently
> enjoyed by the Amateur Advanced would be authorized with Amateur
> General's being grandfathered into Class B. New licensee's would be
> required to pass a
> written examination on advanced radio frequency technology, amateur
> practice,
> regulations and an examination in proficiency in the sending and
> receiving of
> Morse Code at a rate of not more than 12 (twelve) words per minute. This
> would
> be consistent with the present CEPT program, which the United States is
> presently negotiating membership in. Additional frequency allocations
> would be
> authorized by the "refarming" of the subbands presently allocated to the
> Novice
> Class, and divided with the Class A license.
>
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> privileges to the successfull applicant. Present subband authorizations
> enjoyed in the "CW" bands would be unchanged and new exclusive phone
> allocations for the Class A would be "refarmed" from the deactivated
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> license and by rellocating from the "high" end of present CW allocations
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> operation is sparse. A quick scanning of those portions of the spectrum
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> demonstrate that minimal use is made of this portion of the authorized
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> discontinue the present "sequential" callsign system. Upon successful
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> of the requirements for an Amateur Examination, the applicant would be
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> specify those formats of callsigns permitted by class, but it would be
> up to the applicant to chose the desired call, and appropriate fee paid
> for the privilege
> of obtaining said call.
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>
> As for the occassionally emotional debate on the retention of the
> Morse
> Code requirement, I am steadfastly in favor of retention of the use of
> Morse
> Code and demonstration of it's use for the Amateur Service. Among it's
> prouder
> traditions has been the Amateur's ability to communicate across
> international
> boarders and foster communication between citizens in countries which
> may not
> have a common language in which to conduct that communication. Morse
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> the "common denominator" in international communications and should be
> retained.
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> Morse Code
> systems has allowed us to communicate with portions of the world that
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> enjoy the same level of access to technology that we as American's
> enjoy.
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> would like to express my concern over the decline of the overall
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> It is
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> radiocommunication has
> the potential of causing a disruption over a massive, if not world- wide
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> even when that disruption is perpetrated by only a few "rotten apples".
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> vigilanteism. The Commission's assurance that they will enforce these
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> up with action will be the one greatest action the Commission could
> take.
>
>
> Respectfully Submitted,
>
>
> /s/ Steven James Robeson, LPN
> Amateur Radio Staton K4YZ

Wow, guess it must really suck to be Steve, or anyone who agrees with him
on the Morse code issue. Or you.

--
____
Hail Eris! Cthulhu fhtagn! mhm 29x21; Top Asshole #3; Lits Slut #16

Chas. E. Pemberton; Most Hated Usenetizen of All Time #13
Gutter Chix0r #17; BowTie's Spuriously Accused Pedo Photographer #4
COOSN-029-06-71069; Usenet Ruiner #5; Official Chung Demon
AUK Psycho & Felon #21; Parrot & Zombie #2
Anonymous Psycho Criminal #18
Pierre Salinger Memorial Hook, Line & Sinker, June 2008
Hammer of Thor, July 2008
"Life size models of Cthulhu, on sale now!"

"Folklore is a 19th century Romanticist movement based on
contemporary popular northern European music."

"The entire concept was concocted by the Brothers Grimm during the
Romanticist literary period and entered the discipline of music in the
following century with the Romanticist musical period after Beethoven."
-- Please send medical bills for any damage to your health caused by the
above two quotes to Agamemnon-Skopianosfaktis. Message-ID:
<UNGdnZVRnLb0fwXVRVnyigA@eclipse.net.uk>

"Kolofilia between a human and another human is as depraved as fucking
animals." -- Agamemnon, poutso kelftis, just plain doesn't like sex,
apparently. Message-ID:
<asqdneLCt_DZ6e_VnZ2dnUVZ8rednZ2d@eclipse.net.uk>

"Roe V Wade has zero bearing on my existence other than it affects it
adversely."
-- Johnny Wentzky never had much truck with "logic". Message-ID:
<V6xNe.27650$XM3.20042@bignews5.bellsouth.net>

"You are the GOD-DAMNED, IGNORANT LIAR here.
Now, that is not me taking the Lord's name in vain."
-- John Wentzky: Living proof of the Death of Irony, in Message-ID:
<jljOe.5348$ZD4.3223@bignews3.bellsouth.net>

"For the most part, morality is universal." -- John "Easily" Shocked

"The whining has just begun." -- John Wentzky, in Message-ID:
<Ie2Qe.8199$wb5.1083@bignews1.bellsouth.net>

"Gay men deserve to die." -- John Wentzky, in Message-ID:
<RSR3f.23691$5l.19933@bignews1.bellsouth.net>

"Laws count, the US Constitution count more, and we need to have judges
on the bench who are going to Carry Out those laws, not Make Law or
Interpret Law." -- John "Easily" Shocked contradicts his own words on
the overriding importance of society's reluctance to accept
homosexuality, in Message-ID: <brIDe.67062$Qo.12613@fed1read01>

"I heard that you are still trespassing in the USA. If it's black, it
refuses to work and it accuses whites of racism. What a joke.
Look at a map and see where Africa is, bitchboy. What is this GOD DAMNED
NIGGERISH ALLEGIANCE YOU HAVE TO TRYING TO GET WHITE PEOPLE TO HAND OFF
OTHER WHITE PEOPLE TO SOMEONE YOU THINK IS NOT AGAINST YOUR CRIMINAL

ALLEGIANCE??????
Too afraid to tell the truth?
WIMPS!
COWARDS!
LIARS!
MILITANT ASSPRICKS!
LOSERS!
FAILED BULLSHITBOYS WHOSE CANDY HAS NO RED ON IT! YOU KNOW IT TO BE TRUE!
I LICKED THE RED OFF YOUR CANDY BECAUSE YOU ARE YOUR ILK HAVEN'T GOT ANY FURY!
THAT'S WHY YOU CAN'T BEAT ME VIA ANY LAWFUL MEANS WHATSOEVER! YOU'RE A NAMBY PAMBY ANTI-USA ASSPRICK!" -- Huge pools of MOLTEN WENTZKY are being found all over the Carolinas, after his reply to Panama Floyd, in Message-ID: <qiA3k.2556$Xe.1871@bignews1.bellsouth.net>

http://www.screedbomb.info/coosn/
Q: Who is eligible for a COOSN?

A: Kookologists with 10 or more verifiable UV points may exchange these points for a Cabal Obsidian Order Sombrero Number.

Q: Who is *not* eligible for a COOSN?

A: Certified net.kooks; notorious net.cretins; terminally clueless fuckwits; previous winners of kook-awards, unless an official pardon has been granted by the FNVW.

Q: How do I apply for a COOSN?

A: Make a Usenet post to alt.usenet.kooks (crossposting to your favourite newsgroups is acceptable); to ensure that the FNVW actually sees your request, try to use either of the following formats for the subject line:

[COOSN Application] Your name (or best known handle) here
[COOSN Request] Your name (or best known handle) here

Please provide a list of 10 UV points - along with verifiable evidence for each point wherever possible.

Q: Can one Kookologist nominate *another* Kookologist for a COOSN?

A: Yes, but the proposer should supply a verifiable list of 10 UV points for the nominee at the time of the nomination. Also, the nominee must accept the nomination before a COOSN is issued.

Q: What happens if my Sombrero Number application is refused by the FNVW?

A: The Office of Darth Bawl is always looking for new candidates. Nuff said.

Q: What are "UV points"?
1. Threats of violence, especially death. (one point per kook)
2. Lists, i.e. *real* lists, not just mentions of two or three names in

the same post. One list per kook, unless the lists are clearly meant to
serve different purposes.
3. Fanboi sites (one point per kook, not one point per site. Minimum
qualification is a whole page about you; pages containing lists don't
score extra if the list also appears on Usenet).
4. Fanboi newsgroups (one point per kook, not one point per group)
5. Attempts at real-life contact (e.g. posting phone numbers)
6. Fake awards, revenge nominations etc. (one point per kook)
7. Mentions in a newsgroup FAQ (e.g. soc.men).
8. Being the target of a Kooksuit (one point per kook).

Gerald C. Newton is a wife-beating fuckhead.

```
From -7265859760415809545
X-Google-Thread: 10f7a7,89c93a4510653fc8
X-Google-Thread: 114aac,89c93a4510653fc8
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 10bf43,89c93a4510653fc8
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes:
gid10f7a7,gid114aac,gid106d41,gid10bf43,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
y38g2000hsy.googlegroups.com!not-for-mail
From: an_old_friend <kb9rqz@gmail.com>
Newsgroups:
alt.usenet.kooks,rec.radio.shortwave,rec.radio.cb,rec.radio.amateur.policy,rec.rad
io.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Wed, 10 Sep 2008 08:09:10 -0700 (PDT)
Organization: http://groups.google.com
Lines: 275
Message-ID: <0c2abfab-2b72-4d77-8a84-a865fdee8c6e@y38g2000hsy.googlegroups.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
     <57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com> <86661d25-63a3-4c05-8938-
a2beab33a577@w7g2000hsa.googlegroups.com>
     <i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com> <75671283-a0ce-469c-
a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
     <sl1154du7jqb1g99kin78cssmsods2dqjg@4ax.com>
<zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
     <c2363b23-32a8-4578-b3f2-e9ee71eeb050@d1g2000hsg.googlegroups.com>
     <CY6CqrA2ZRUIFwKg@g3ohx.demon.co.uk> <28149a87-09f2-4778-
aece-7533b162308f@34g2000hsh.googlegroups.com>
     <1033a23b-2c66-49ca-bb98-5703be6a2706@t54g2000hsg.googlegroups.com>
     <8f09fc76-04c8-4d98-85db-2db433e50f3c@e39g2000hsf.googlegroups.com>
     <CO7kk.1134$3l5.125@newsfe06.iad> <c13d99b5-d12d-402b-ad30-
ac866cf33622@59g2000hsb.googlegroups.com>
     <pan.2008.09.10.12.04.24.72621@ia.ia.nngh.yog.sothoth.neblod.zin>
NNTP-Posting-Host: 69.19.14.44
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
```

```
X-Trace: posting.google.com 1221059350 18881 127.0.0.1 (10 Sep 2008 15:09:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 10 Sep 2008 15:09:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y38g2000hsy.googlegroups.com; posting-host=69.19.14.44;
     posting-account=10Pv3QoAAAAjTC9fwUuRD-bApJtUG_pO
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.1)
     Gecko/2008070208 Firefox/3.0.1,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com alt.usenet.kooks:62710 rec.radio.shortwave:11163
rec.radio.cb:2362 rec.radio.amateur.policy:9089 rec.radio.amateur.homebrew:631

On Sep 10, 8:04=A0am, The Black Goat With A Thousand Young
<ancient_o...@shoggoths.rule> wrote:
> On Sun, 03 Aug 2008 14:19:24 -0700, KnobGobblerMor...@Mail2Princess.Com,
> of the Mark Morgan Fan Club, fixed me with a beady eye, and foamed wildly=
:
>
>
>
> > On Jul 30, 7:36 pm, "Tio Pedro" wrote:
> >> "Telstar Electronics" wrote
> >> This
>
> >> DF4ZS is a clipping type processor... nothing like the VoiceMax audio
> >> compressor.
>
> >> That is true. SSB RF clipping is proven to deliver an honest 6 dB
> >> improvement.
>
> > Remember way back when this was posted? Dam..... I wish =A0YZ =A0the gr=
eat
> > one was still posting here!!
>
> > <PROCEEDING> 98-143
> > <DATE> 11.27.98
> > <NAME> STEVEN JAMES ROBESON
> > <ADDRESS1> HCR65 BOX 572
> > <ADDRESS2> POB 2103
> > <CITY> DUNLAP
> > <STATE> TN
> > <ZIP> 37327
> > <LAW FIRM> NONE
> > <ATTORNEY> NONE
> > <FILE NUMBER> NONE
> > <DOCUMENT-TYPE> CO
> > <CONFIDENTIAL> N
> > <PHONE NUMBER> (???) -???-????
> > <DESCRIPTION> Comments on WT 98-143
> > <NOTIFY> erlpnk...@aol.com
> > <TEXT>
>
> > To the Members of the Commission Assembled:
```

```
>
> > =A0 =A0 =A0I am Steven Robeson. =A0I have been a licensee in the Amateu=
r Radio
> > Service
> > since 1972 and am presently the licensee of Amateur Radio Station K4YZ
> > and hold
> > an Amateur Extra Class Operators license. =A0I comment to you today on =
the
> > matter
> > of WT 98-143.
>
> > =A0 =A0 =A0There can be no doubt that there has been quantum leaps in t=
he
> > field of
> > radiocommunication since the last major rewrite of Part 97. =A0This
> > includes the
> > "Incentive Licensing" system that was implemented in the late 1960's. I=
t
> > is
> > clearly time to change the system.
>
> > =A0 =A0 =A0The Commission has solicited comments relative to that
> > circumstance, and I
> > hope the following will be considered in that act.
>
> > =A0 =A0 =A0 First of all, I would like to wholeheartedly approve of the
> > concept of
> > reducing the number of Amateur License classes from six to four. There
> > is much
> > confusion as to "who's who" as it is now, and a reduction in the
> > licensing process would alleviate that disparity. =A0As such, I envisio=
n
> > the following as
> > being appropriate for said restructuring:
>
> > =A0 =A0 =A0Amateur Class D: =A0The Amateur Class D license would become=
 the de
> > facto
> > "entry class" license for the Amateur Service. =A0In light of the gross=
ly
> > decreased demand for the Novice License and reduced useage of the sub-
> > bands
> > allocated for thier use, I would deactivate it as the "entry class"
> > licenese.
> > The Class D License would for all intents and purposes be the same as
> > the current "Codeless Technician" class license. =A0The examination for
> > this license
> > would remove questions pertaining to HF (1.8 to 30 MHZ) theory and
> > operation,
> > and be strictly limited to matters pertaining to VHF/UHF theory and
> > operation,
> > regulatory matters and Amateur practice. =A0All Amateur privileges abov=
e
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> > 30 MHZ
> > would be conveyed to the successful applicant.
>
> > =A0 =A0 =A0Amateur Class C: =A0The Class C license would be the entry l=
evel
> > license for
> > operation on the HF spectrum. =A0It would require the successful applic=
ant
> > either
> > hold a Class D license, or successfully complete the Class D examinatio=
n
> > in
> > addition to an examination on basic HF theory, propagation and practice=
.
> > It
> > would also require an examination in proficiency in the sending and
> > receiving
> > of Morse Code at a speed of not more than 5 (five) words per minute.
> > Persons
> > presently holding a Novice Class License or Technician Plus license
> > would be
> > grandfathered into this class of license, except that they would be
> > required to
> > take a 20 question open book examination at a VE Testing Session on the
> > privileges and restrictions of the Class C License prior to utilizing
> > those
> > privileges. =A0Allocations would include those presently enjoyed by the
> > Amateur
> > General Class licensee except for operation of the 160, 30, 17 and 12
> > meter
> > bands.
>
> > =A0 =A0 =A0Class B: =A0The Class B license would incorporate the presen=
t
> > Amateur
> > General and Amateur Advanced license. =A0All amateur priviledges as are
> > presently
> > enjoyed by the Amateur Advanced would be authorized with Amateur
> > General's being grandfathered into Class B. =A0New licensee's would be
> > required to pass a
> > written examination on advanced radio frequency technology, amateur
> > practice,
> > regulations and an examination in proficiency in the sending and
> > receiving of
> > Morse Code at a rate of not more than 12 (twelve) words per minute. Thi=
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> > would
> > be consistent with the present CEPT program, which the United States is
> > presently negotiating membership in. =A0Additional frequency allocation=
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> > would be
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```

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> Wow, guess it must really suck to be Steve, or anyone who agrees with him
> on the Morse code issue. Or you.

yes he was calling to make the license more complex at a time when the
FCCmade it clear it wanted and was going to have a simpler licensing
scheme

From 8070478762850748608
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Wed, 10 Sep 2008 09:59:44 -0700
Organization: Aioe.org NNTP Server
Lines: 18
Message-ID: <79tfc4t34neqfval29spuuaecdfr8sj6gd@4ax.com>
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<878wu2urfu.fsf@hummer.cluon.com> <956f3fee-69e8-4782-bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
<ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
<GvmdnTUQnMjWOlrVnZ2dnUVZ_tHinZ2d@bright.net>
NNTP-Posting-Host: bKCNcvZ2SZDFBVqhg6ojJw.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Agent 1.91/32.564
Xref: g2news2.google.com rec.radio.amateur.homebrew:3083

Scott <acepilotREMOVE@bloomer.net> wrote:

> I think Techs have some HF privileges again...a bit confusing ;)

I was happy when they gave the Technician Class License HF CW privileges because I thought that it would help the sagging numbers found on the CW bands. Currently they have the same CW privileges as the General Class on 80, 40, and 15M HF bands.

I hang mainly on 80 and 40 CW and average a couple of QSOs a day. To this date I have yet to contact a Tech. (I check QRZ.com when making entries in my computer log.) So at this point it doesn't seem to have increased CW activity as much as I had hoped.

BTW using the internet makes QSOs even more interesting. QRZ.com often has blurbs and photos of the guy you just talked to. Also using Google Maps you can pinpoint his location, and often using Google Streets you can even see a photo of his house. Amazing.

```
From -2372960118644565124
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i76g2000hsf.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Wed, 10 Sep 2008 10:02:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 39
Message-ID: <b9ad5b4d-203f-4e00-b480-014a91da3a9c@i76g2000hsf.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
     <4271c502-6b97-4b18-8d70-b5e05372cbc7@p25g2000hsf.googlegroups.com>
     <xcSdnWqxlJtW917VnZ2dnUVZ_tjinZ2d@posted.cpinternet>
<60f04717-818a-47b7-8aa5-a879bb551155@w7g2000hsa.googlegroups.com>
     <Xns9B12A2B424C882MDWN@194.177.96.78> <Xns9B12CD624FE752MDWN@194.177.96.78>
     <Xns9B12D8C833BE02MDWN@194.177.96.78> <0d347e43-d718-4f8c-
a1da-620c2a60a472@a1g2000hsb.googlegroups.com>
     <Xns9B13256B78F62MDWN@194.177.96.78> <4c85e482-d4e9-4553-
aed7-7de32f2e9786@c65g2000hsa.googlegroups.com>
     <2eGdnflJqPAwo1jVnZ2dnUVZ_h-dnZ2d@posted.cpinternet> <3b5ac1cc-
c1b7-4c73-948d-92fc8a40f1c4@l64g2000hse.googlegroups.com>
     <Xns9B13B9538BB5A2MDWN@194.177.96.78> <d531292f-3f87-4a8d-bc37-
e5a34bfde383@f36g2000hsa.googlegroups.com>
     <Xns9B14BFB0AE0B42MDWN@194.177.96.78>
NNTP-Posting-Host: 76.226.207.25
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1221066137 9034 127.0.0.1 (10 Sep 2008 17:02:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 10 Sep 2008 17:02:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i76g2000hsf.googlegroups.com; posting-host=76.226.207.25;
```

```
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.16)
     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:633

On Sep 9, 7:50 pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> Ok, this should work.  http://tinyurl.com/6at4zu
>
> > I mean the primary of this thing uses litz wire that looks like 10AWG
> > wire about 13 turns around the core
> > and they using 4 strands of 28 AWG to run the filament
> > The HV secondary measures only 6.8 ohms DC.
>
> I'm glad you mentioned that.  If the core is ferrite and it's gapped,
> then the litz makes sense to reduce eddy current losses from the
> fringing field sprayed out of the gap.  A gapped core would also most
> likely mean it is a flyback.
>
> It really is amazing the power density SMPS can achieve.  Though the
> overload capacity available from big hunks of iron and copper isn't
> to be discounted lightly.  I had to pick up a 10KW autotransformer
> today.  I don't know how much it weighed but I'd guess 130lbs, or
> there about.  The two transformers in the 10KW SMPS are maybe four
> pounds total.

Hey mule

Exactly right it is a gapped core. Once I git's a scope on I'll see.

But the voltage doubler they using is full wave doubler. Which means
they taking the positive and negative waves  to get 4000 or so volts
DC
Now the positive half they use a .0082 mfd for a filter and the
negative half they use a .0056 mfd filter both at 3000wvdc.
.
They use a damper diode that looks like a varistor, and a hold down
cap is .032 mfd at 500V across the primary.
The power into the primary is filter by an LC just to prevent the RF
getting back into the mains/bridge diodes pack.

73 OM

n8zu




From -1091923342229143825
X-Google-Thread: fc2a5,2d7f98195bb4c2a8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
```

```
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 10 Sep 2008 12:59:30 -0500
From: confused <confused.30dc066@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: info wanted
Date: Wed, 10 Sep 2008 16:35:53 +0100
Message-ID: <confused.30dc066@radiobanter.com>
Organization: RadioBanter.com
References: <confused.300917e@radiobanter.com> <b19ff922-
ad68-4077-8b1b-227fcadea55a@v16g2000prc.googlegroups.com>
Lines: 37
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-WB5CWNKCEIXVLXag/WgBTBKgBKlBCSN468hnZqd1FPTEgYsgMuteuk4ibR8w5z+15znq/
mQNFaz8xBq!cyW6ETYdd+O28759P15W95BMsmnXbSn2trhbkf9xauLqOJM/Hr2CGvju9eM5/
R30TOl7vBFt/fze!F8BylA==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Lines: 27
Xref: g2news2.google.com rec.radio.amateur.homebrew:3086
```

'Andrew VK3BFA[_2_ Wrote:
> ;644769']On Sep 1, 2:05 am, confused confused.3009...@radiobanter.com
> wrote:-
> anyone seen a surface mount part only markings on it are d k 9 z.it's
> on
> a kenwood handheld tranceiver of mine which has burnt out.would
> appreciate any info?
> many thanks
>
> --
> confused-
>
> you need to do it logically and scientifically, which is the basis of
> our hobby.
>
> 1.Get the service manual.
> 2.Get the part no, try Kenwood, if no go, then
> 3.Look at circuit diagram, identify component, replace with similar -
> its unlikely to be critical.
>
> I suspect you are out of your depth at this stage in your amateur
> career, and perhaps it would be wise to seek the help of a local
> technician or knowledgeable amateur - your local club could probably
> help with contact details...
>
> Andrew VK3BFA.

i checked the components characteristics .seemed to be two diodes on

one chip.replaced it with two smt diodes and it works.
thanks for all your advice.

--
confused

```
From -5152125942195767163
X-Google-Thread: 114aac,89c93a4510653fc8
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid114aac,gid106d41,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!k13g2000hse.googlegroups.com!not-for-
mail
From: an_old_friend <konstans@hotmail.com>
Newsgroups:
rec.radio.shortwave,rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.homebr
ew
Subject: Re: VoiceMax Speech Processor...
Date: Wed, 10 Sep 2008 12:34:43 -0700 (PDT)
Organization: http://groups.google.com
Lines: 30
Message-ID: <19755783-8dc6-4198-bad8-e1b17fec5c7f@k13g2000hse.googlegroups.com>
References: <CY6CqrA2ZRUIFwKg@g3ohx.demon.co.uk> <28149a87-09f2-4778-
aece-7533b162308f@34g2000hsh.googlegroups.com>
     <1033a23b-2c66-49ca-bb98-5703be6a2706@t54g2000hsg.googlegroups.com>
     <8f09fc76-04c8-4d98-85db-2db433e50f3c@e39g2000hsf.googlegroups.com>
     <CO7kk.1134$3l5.125@newsfe06.iad> <c13d99b5-d12d-402b-ad30-
ac866cf33622@59g2000hsb.googlegroups.com>
     <pan.2008.09.10.12.04.24.72621@ia.ia.nngh.yog.sothoth.neblod.zin>
     <0c2abfab-2b72-4d77-8a84-a865fdee8c6e@y38g2000hsy.googlegroups.com>
     <irvfc41iehhbcreol4rjbka2c5vdnguu70@4ax.com>
<20080910142135.602$y1@newsreader.com>
NNTP-Posting-Host: 69.19.14.44
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1221075284 6776 127.0.0.1 (10 Sep 2008 19:34:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 10 Sep 2008 19:34:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k13g2000hse.googlegroups.com; posting-host=69.19.14.44;
     posting-account=10Pv3QoAAAAjTC9fwUuRD-bApJtUG_pO
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.1)
     Gecko/2008070208 Firefox/3.0.1,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.shortwave:11179 rec.radio.cb:2368
rec.radio.amateur.policy:9101 rec.radio.amateur.homebrew:637
```

```
On Sep 10, 2:21=A0pm, Steve <moparho...@hotmail.com> wrote:
> Fred <jesuslo...@thedevil.com> wrote:
> > [Default] On Wed, 10 Sep 2008 08:09:10 -0700 (PDT), in rec.radio.cb
> > you wrote:
>
> > >> Wow, guess it must really suck to be Steve, or anyone who agrees wit=
h
> > >> him on the Morse code issue. Or you.
>
> > >yes he was calling to make the license more complex at a time when the
> > >FCCmade it clear it wanted and was going to have a simpler licensing
> > >scheme
>
> > Yeah, it is a shame that they made it too easy to get a ticket and now
> > we have fucktards like Mark on the air.
>
> This is the most accurate post in rrcb today so far. I set filters for
> marks posts, none of them are worth reading anyway. He has destroyed rrap
> so bad that group isn't even worth opening anymore. Think the stupid fuck
> would at least use a spell check, but that's probably above his pay scale=
.
>
> Perhaps that is his mission, to destroy Usenet text groups. Plonk him and
> leave him to talk to himself.
>
> 73
> Steve.

fred and his freinds can't ignore me sinc ethey have mental illnesses
that make em afraid to even allow exist in the same NG


From 6056711289776674990
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!
trnddc02.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<878wu2urfu.fsf@hummer.cluon.com> <956f3fee-69e8-4782-
bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
<ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
<GvmdnTUQnMjWOlrVnZ2dnUVZ_tHinZ2d@bright.net>
<79tfc4t34neqfval29spuuaecdfr8sj6gd@4ax.com>
Subject: Re: CW is a hobby (off topic BWTH)
Lines: 36
X-Priority: 3
X-MSMail-Priority: Normal
```

X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <yOVxk.799$Dj1.115@trnddc02>
Date: Wed, 10 Sep 2008 20:07:58 GMT
NNTP-Posting-Host: 71.110.228.163
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc02 1221077278 71.110.228.163 (Wed, 10 Sep 2008 16:07:58 EDT)
NNTP-Posting-Date: Wed, 10 Sep 2008 16:07:58 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3089

"AJ Lake" <nomail@fakeaddress.com> wrote in message
news:79tfc4t34neqfval29spuuaecdfr8sj6gd@4ax.com...
> Scott <acepilotREMOVE@bloomer.net> wrote:
>
> > I think Techs have some HF privileges again...a bit confusing ;)
>
> I was happy when they gave the Technician Class License HF CW privileges
> because I thought that it would help the sagging numbers found on
> the CW bands. Currently they have the same CW privileges as the General
> Class on 80, 40, and 15M HF bands.
>
> I hang mainly on 80 and 40 CW and average a couple of QSOs a day. To this
> date I have yet to contact a Tech. (I check QRZ.com when making entries in
> my computer log.) So at this point it doesn't seem to have increased CW
> activity as much as I had hoped.
>
> BTW using the internet makes QSOs even more interesting. QRZ.com often has
> blurbs and photos of the guy you just talked to. Also using Google Maps
you
> can pinpoint his location, and often using Google Streets you can even see
a
> photo of his house. Amazing.

I hate Google Streets. It would seem to be an invasion of privacy for
someone to go around taking pictures. The only use is if you are trying to
buy or sell a house. Or plotting a crime. My PO box is on my license.
Perfectly legal since it gets sent out all over the World

I went from Novice to Advanced, having failed the 20wpm the first time. I
still loved to hang on 40 CW, 2 and 440 FM for years. Then 40 got taken
over by broadcasters. I'm a little bit of everywhere now. With 2 m SSB
becoming popular, I've found cross mode CW/SSB actually works, so more
people find it useful than let on. I had talked to some tech+ on 10 SSB/CW.

From 2938964754374220887
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news4.google.com!news2.google.com!

news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
nx02.iad01.newshosting.com!newshosting.com!130.81.64.211.MISMATCH!
cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc02.POSTED!1bc6af47!
not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<Pine.LNX.4.64.0809091344450.12702@darkstar.example.org>
Subject: Re: CW is a hobby (off topic BWTH)
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <8SVxk.800$Dj1.671@trnddc02>
Date: Wed, 10 Sep 2008 20:11:48 GMT
NNTP-Posting-Host: 71.110.228.163
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc02 1221077508 71.110.228.163 (Wed, 10 Sep 2008 16:11:48 EDT)
NNTP-Posting-Date: Wed, 10 Sep 2008 16:11:48 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:639

"Michael Black" <et472@ncf.ca> wrote in message
news:Pine.LNX.4.64.0809091344450.12702@darkstar.example.org...
> On Mon, 8 Sep 2008, AJ Lake wrote:
>
> Keep the trash out of here, you and the other carpetbaggers.
>
>   Michael VE2BVW

Frequency's in use OM

From 1487982553616172866
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!volia.net!news2.volia.net!feed-A.news.volia.net!newsfeed01.sul.t-online.de!newsfeed00.sul.t-online.de!t-online.de!news.k-dsl.de!aioe.org!not-for-mail
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Wed, 10 Sep 2008 14:21:21 -0700
Organization: Aioe.org NNTP Server
Lines: 29
Message-ID: <itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com>
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<878wu2urfu.fsf@hummer.cluon.com> <956f3fee-69e8-4782-bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>

<ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
<GvmdnTUQnMjWOlrVnZ2dnUVZ_tHinZ2d@bright.net>
<79tfc4t34neqfval29spuuaecdfr8sj6gd@4ax.com> <yOVxk.799$Dj1.115@trnddc02>
NNTP-Posting-Host: bKCNcvZ2SZDFBVqhg6ojJw.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Agent 1.91/32.564
Xref: g2news2.google.com rec.radio.amateur.homebrew:3091

"JB" <nospam@goofball.net> wrote:

>I hate Google Streets. It would seem to be an invasion of privacy for
>someone to go around taking pictures.

Many people feel this way.

>The only use is if you are trying to buy or sell a house.

As I said I use it to see where my contacts live. On occasion I even get to see the tower and/or antennas. I used it scope out my old neighborhoods in the Chicago area where I lived as a kid. Also recently I was recently able to scope out a good parking lot on the beach at Pacific Beach CA (and actually able to read to read the parking sign hours) prior to driving there. So I find lots uses for it.

>My PO box is on my license.

If somebody really wants to find you they can. If you give your call it would be duck soup to find where you live, even using a PO box. But even posting anonymously here on Usenet we can be found. The best advice is not to make anyone mad enough to want devote the resources and time it requires to do it.

> I still loved to hang on 40 CW

Maybe we have QSOed in the past. My computer log goes back to 1990. Unfortunately my paper logs are long gone. Give me your call and I'll check..... ;-)

From 1975593672466262590
X-Google-Thread: fc2a5,5e3c5679427ec543,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!news.cv.net!not-for-mail
Message-ID: <48C8500B.9000501@optonline.net>
Date: Wed, 10 Sep 2008 18:54:03 -0400
From: John Siegel <johnasiegel@optonline.net>

User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.0.2) Gecko/20030208 Netscape/7.02
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: QST Archive
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 8
Organization: Optimum Online
NNTP-Posting-Host: 69.116.75.74
X-Complaints-To: abuse@cv.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:641

Interesting announcement on the ARRL web site. They have put online an archive of QSTs from 1915 to 2004. If you are a member you can search for and download as a pdf any article without additional cost.

Just for fun I found the article from January 1956 that described my first transmitter.
John

From -3147585575184112173
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Thu, 11 Sep 2008 02:05:20 +0200 (CEST)
Organization: Mostly In Piles
Lines: 38
Message-ID: <Xns9B15C22EDBAA12MDWN@194.177.96.78>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com> <4271c502-6b97-4b18-8d70-b5e05372cbc7@p25g2000hsf.googlegroups.com> <xcSdnWqxlJtW917VnZ2dnUVZ_tjinZ2d@posted.cpinternet> <60f04717-818a-47b7-8aa5-a879bb551155@w7g2000hsa.googlegroups.com> <Xns9B12A2B424C882MDWN@194.177.96.78> <Xns9B12CD624FE752MDWN@194.177.96.78> <Xns9B12D8C833BE02MDWN@194.177.96.78> <0d347e43-d718-4f8c-a1da-620c2a60a472@a1g2000hsb.googlegroups.com> <Xns9B13256B78F62MDWN@194.177.96.78> <4c85e482-d4e9-4553-aed7-7de32f2e9786@c65g2000hsa.googlegroups.com> <2eGdnflJqPAwo1jVnZ2dnUVZ_h-dnZ2d@posted.cpinternet> <3b5ac1cc-c1b7-4c73-948d-92fc8a40f1c4@l64g2000hse.googlegroups.com> <Xns9B13B9538BB5A2MDWN@194.177.96.78> <d531292f-3f87-4a8d-bc37-e5a34bfde383@f36g2000hsa.googlegroups.com> <Xns9B14BFB0AE0B42MDWN@194.177.96.78> <b9ad5b4d-203f-4e00-b480-014a91da3a9c@i76g2000hsf.googlegroups.com>
NNTP-Posting-Host: yDxVcVXTe0Jb1/9/JWoGqA.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news2.google.com rec.radio.amateur.homebrew:3093

> Exactly right it is a gapped core. Once I git's a scope on I'll see.
>
> But the voltage doubler they using is full wave doubler. Which means
> they taking the positive and negative waves to get 4000 or so volts
> DC
> Now the positive half they use a .0082 mfd for a filter and the
> negative half they use a .0056 mfd filter both at 3000wvdc.

my guess is the quasi-push pull output is due to the leakage energy recovery circuit. HV flyback transformers usually have very high leakage inductance (the part of the magnetizng inductance not coupled to the secondary is leakage inductance) because distance between windings is a major cause of poor coupling and you need distance for isolation.

The leakage energy sloshes about in the primary causing all sorts of mischief. This circuit recovers it and dumps it back into the primary. It's unusual since the leakage energy is usually dumped back into the bulk storage capacitor on the primary side if it's recovered by a clamp winding or active clamp circuit.

A soft switching topology often uses the leakage inductance to reduce transistion losses in the switch. Sometimes a discrete inductor is added in series with the transformer primary to add to it. Another bonus for the lousy coupling of the HV flyback transformer... no discrete inductor needed. I think of this as electronic ju-jitsu.

The energy per half cycle (on the secondary) won't be equal so juggling the capacitor values helps equalize the voltage stress.

Eh! I might be completely wrong. Simulating it would be the thing but it's too much like work work and I'd need the transformer parameters.

At least that's how I think it works... Please let me know when you've scoped the waveforms.

```
From 2141182602896712256
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!d1g2000hsg.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Wed, 10 Sep 2008 19:20:57 -0700 (PDT)
Organization: http://groups.google.com
Lines: 46
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Message-ID: <75159065-a969-4ed4-8747-7474f6636f76@d1g2000hsg.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
     <xcSdnWqxlJtW917VnZ2dnUVZ_tjinZ2d@posted.cpinternet>
<60f04717-818a-47b7-8aa5-a879bb551155@w7g2000hsa.googlegroups.com>
     <Xns9B12A2B424C882MDWN@194.177.96.78> <Xns9B12CD624FE752MDWN@194.177.96.78>
     <Xns9B12D8C833BE02MDWN@194.177.96.78> <0d347e43-d718-4f8c-
a1da-620c2a60a472@a1g2000hsb.googlegroups.com>
     <Xns9B13256B78F62MDWN@194.177.96.78> <4c85e482-d4e9-4553-
aed7-7de32f2e9786@c65g2000hsa.googlegroups.com>
     <2eGdnflJqPAwo1jVnZ2dnUVZ_h-dnZ2d@posted.cpinternet> <3b5ac1cc-
c1b7-4c73-948d-92fc8a40f1c4@l64g2000hse.googlegroups.com>
     <Xns9B13B9538BB5A2MDWN@194.177.96.78> <d531292f-3f87-4a8d-bc37-
e5a34bfde383@f36g2000hsa.googlegroups.com>
     <Xns9B14BFB0AE0B42MDWN@194.177.96.78> <b9ad5b4d-203f-4e00-
b480-014a91da3a9c@i76g2000hsf.googlegroups.com>
     <Xns9B15C22EDBAA12MDWN@194.177.96.78>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1221099658 19937 127.0.0.1 (11 Sep 2008 02:20:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 11 Sep 2008 02:20:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d1g2000hsg.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:643
```

On Sep 10, 8:05=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:

> > Exactly right it is a gapped core. Once I git's a scope on I'll see.
>
> > But the voltage doubler they using is full wave doubler. Which means
> > they taking the positive and negative waves =A0to get 4000 or so volts
> > DC
> > Now the positive half they use a .0082 mfd for a filter and the
> > negative half they use a .0056 mfd filter both at 3000wvdc.
>
> my guess is the quasi-push pull output is due to the leakage energy
> recovery circuit. =A0HV flyback transformers usually have very high
> leakage inductance (the part of the magnetizng inductance not coupled
> to the secondary is leakage inductance) because distance between
> windings is a major cause of poor coupling and you need distance for
> isolation. =A0
>
> The leakage energy sloshes about in the primary causing all sorts of
> mischief. =A0This circuit recovers it and dumps it back into the primary.
> It's unusual since the leakage energy is usually dumped back into the
> bulk storage capacitor on the primary side if it's recovered by a clamp
> winding or active clamp circuit. =A0
>

> A soft switching topology often uses the leakage inductance to reduce
> transistion losses in =A0the switch. =A0Sometimes a discrete inductor is
> added in series with the transformer primary to add to it. =A0Another
> bonus for the lousy coupling of the HV flyback transformer... no
> discrete inductor needed. =A0I think of this as electronic ju-jitsu.
>
> The energy per half cycle (on the secondary) won't be equal so juggling
> the capacitor values helps equalize the voltage stress.
>
> Eh! =A0I might be completely wrong. =A0Simulating it would be the thing
> but it's too much like work work and I'd need the transformer parameters.
>
> At least that's how I think it works... Please let me know when you've
> scoped the waveforms.

The schematic I sent to msg actually refers to it as a flyback
circuit.
I am guessing one of the IGBTs is being used as a damper.

Jimmie

Jimmie

From -5677978586833223549
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!f63g2000hsf.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Wed, 10 Sep 2008 20:08:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 28
Message-ID: <9fb5ff71-79cb-4474-b5d4-f8a73d6a26a9@f63g2000hsf.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
<xcSdnWqxlJtW917VnZ2dnUVZ_tjinZ2d@posted.cpinternet>
<60f04717-818a-47b7-8aa5-a879bb551155@w7g2000hsa.googlegroups.com>
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<Xns9B12D8C833BE02MDWN@194.177.96.78> <0d347e43-d718-4f8c-a1da-620c2a60a472@a1g2000hsb.googlegroups.com>
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<Xns9B13B9538BB5A2MDWN@194.177.96.78> <d531292f-3f87-4a8d-bc37-e5a34bfde383@f36g2000hsa.googlegroups.com>
<Xns9B14BFB0AE0B42MDWN@194.177.96.78> <b9ad5b4d-203f-4e00-b480-014a91da3a9c@i76g2000hsf.googlegroups.com>

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Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 11 Sep 2008 03:08:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f63g2000hsf.googlegroups.com; posting-host=76.226.207.25;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3095

On Sep 10, 8:05=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> my guess is the quasi-push pull output is due to the leakage energy
> recovery circuit. =A0HV flyback transformers usually have very high
> leakage inductance (the part of the magnetizng inductance not coupled
> to the secondary is leakage inductance) because distance between
> windings is a major cause of poor coupling and you need distance for
> isolation. =A0

Exactly right I was in a hurry to get off to work and cut out the part
about the Damper diode and hold down capacitor. So yeah the diode
which looks like a varistor and may very well be a varistor, is the
push pull switch shorting out the induced trailing edge energy of the
IGBT. They use a .032 mfd across the primary along with the damper.
So the damper is switching on after the IGBT turned is off.

> At least that's how I think it works... Please let me know when you've
> scoped the waveforms.

Hopefully on the day 911, I get this powered up with low voltage. .
VK3HZ waveforms were at 50 hz trace sweep frequency so you couldn't
see the 30khz waveform.

73 OM
n8zu





From 2930552208597599867
X-Google-Thread: fc2a5,5e3c5679427ec543
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Date: Thu, 11 Sep 2008 09:28:07 +0100
From: steve H
<usgzhfckxcguhsevjerxsicfcnvzcztymnvbvinscmfwghvzvczdcbxvssdfvcygfcbhtcfghbytrdfcg
```

vhuytfrgvhytfrgvhytfghytrfghygtyfgvhygtfg@tfif.co.uk>
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: QST Archive
References: <48C8500B.9000501@optonline.net>
In-Reply-To: <48C8500B.9000501@optonline.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
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Lines: 12
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X-Trace: 11 Sep 2008 09:29:29 +0100, mk-nntp-2.news.uk.tiscali.com
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Xref: g2news2.google.com rec.radio.amateur.homebrew:3098

John Siegel wrote:
> Interesting announcement on the ARRL web site. They have put online an
> archive of QSTs from 1915 to 2004. If you are a member you can search
> for and download as a pdf any article without additional cost.
>
> Just for fun I found the article from January 1956 that described my
> first transmitter.
> John
>

Do you have a link to it? I can't find it on the site.

Steve H

From 7942164733938970199
X-Google-Thread: fc2a5,5e3c5679427ec543
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!news.cv.net!not-for-mail
From: "Rick" <ricknj10@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <48C8500B.9000501@optonline.net> <48c8d698_3@mk-nntp-2.news.uk.tiscali.com>
Subject: Re: QST Archive
Date: Thu, 11 Sep 2008 07:31:28 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response

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Lines: 10
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Organization: Optimum Online
NNTP-Posting-Host: 67.82.179.222
X-Complaints-To: abuse@cv.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:3099


> Do you have a link to it? I can't find it on the site.


Steve - There is a link within a news story on the first page.  Way down
near the bottom.

Rick





From 6226588677544203264
X-Google-Thread: fc2a5,5e3c5679427ec543
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Date: Thu, 11 Sep 2008 13:46:23 +0100
From: steve H
<usgzhfckxcguhsevjerxsicfcnvzcztymnvbvinscmfwghvzvczdcbxvssdfvcygfcbhtcfghbytrdfcg
vhuytfrgvhytfrgvhytfghytrfghygtyfgvhygtfg@tfif.co.uk>
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: QST Archive
References: <48C8500B.9000501@optonline.net> <48c8d698_3@mk-
nntp-2.news.uk.tiscali.com> <48c90206$0$7316$607ed4bc@cv.net>
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mk-nntp-1.news.uk.tiscali.com!mk-nntp-2.news.uk.tiscali.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:649

Rick wrote:
>> Do you have a link to it? I can't find it on the site.
> 
> 
> Steve - There is a link within a news story on the first page.  Way down
> near the bottom.
> 
```

```
> Rick
>
>
Many thanks.  I build a lot of valve kit and QST was full of ideas in
the 50's and 60's.  I buy back issues when I see them at hamfests but
you don't often see them in the UK.

steve h



From -6740694086443464135
X-Google-Thread: fc2a5,5e3c5679427ec543
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!b1g2000hsg.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: QST Archive
Date: Thu, 11 Sep 2008 06:51:32 -0700 (PDT)
Organization: http://groups.google.com
Lines: 20
Message-ID: <067a4d7e-1751-43a1-9575-9ea0c9f8e0e3@b1g2000hsg.googlegroups.com>
References: <48C8500B.9000501@optonline.net>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1221141092 24796 127.0.0.1 (11 Sep 2008 13:51:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 11 Sep 2008 13:51:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3101

On Sep 10, 6:54=A0pm, John Siegel <johnasie...@optonline.net> wrote:
> Interesting announcement on the ARRL web site. =A0They have put online an
> archive of QSTs from 1915 to 2004. If you are a member you can search
> for and download as a pdf any article without additional cost.
>
> Just for fun I found the article from January 1956 that described my
> first transmitter.

Cool, way cool!

I have roughly several hundred often moldy issues of QST's on my
shelves from the 40's through the 70's. Maybe the basement will smell
a little better now that I don't need them :-).
```

Having QEX online would be nice too... (hint, hint).

The sure way the ARRL can keep me as a member is to continue offering
this service to their members!

Tim N3QE

From 1462294260895671159
X-Google-Thread: fc2a5,5e3c5679427ec543
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.karotte.org!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: QST Archive
Date: 11 Sep 2008 14:48:47 GMT
Lines: 28
Message-ID: <slrngcibuf.2ni2.bit-bucket@shell.config.com>
References: <48C8500B.9000501@optonline.net>
Reply-To: If you must, <Reply_to@my.sig.adr>
X-Trace: individual.net ttCVS9HaTAFrmRMEj5JWJAYyUTod1vhD1dticFG3DszWm316vp
Cancel-Lock: sha1:n3JtPECfebBjXT71hIu/DJfCeWg=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3102

On Wed, 10 Sep 2008 18:54:03 -0400, John Siegel wrote:
> Interesting announcement on the ARRL web site. They have put online an
> archive of QSTs from 1915 to 2004. If you are a member you can search
> for and download as a pdf any article without additional cost.
>
> Just for fun I found the article from January 1956 that described my
> first transmitter.

Did anyone get "QST: Annual Index" to pull up the annual index for any
issue of QST? Returns nothing here _and_ it also highlights (selects)
the "QEX: Annual Index" and "Ham Radio: Annual Index" entries.

And, why no "QST: Table of Contents"!!

It's easy to trawl through various _columns_ in QST. But, unless you
have a pretty good idea what the title is, or who the author was,
there's no easy way to locate a feature article.

I would assume the _intent_ of putting all this up on the ARRL web site
is for ARRL Members to find material in old issues of QST. Why doesn't
the _implementation__ demonstrate this? At least give us the Annual
Index(es) and the TOCs.

Jonesy
--

```
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    * Killfiling google & XXXXbanter.com: jonz.net/ng.htm
```

```
From -6877013004743568753
X-Google-Thread: fc2a5,5e3c5679427ec543
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out03b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!spln!
extra.newsguy.com!newsp.newsguy.com!news5
From: Registered User <n4jvp@ix.netcom.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: QST Archive
Date: Thu, 11 Sep 2008 10:57:52 -0400
Organization: subdevo.com
Lines: 31
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bucket@shell.config.com>
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Content-Transfer-Encoding: 7bit
X-Newsreader: Forte Agent 3.3/32.846
Xref: g2news1.google.com rec.radio.amateur.homebrew:652

On 11 Sep 2008 14:48:47 GMT, Allodoxaphobia <bit-bucket@config.com>
wrote:

>On Wed, 10 Sep 2008 18:54:03 -0400, John Siegel wrote:
>> Interesting announcement on the ARRL web site.  They have put online an
>> archive of QSTs from 1915 to 2004. If you are a member you can search
>> for and download as a pdf any article without additional cost.
>>
>> Just for fun I found the article from January 1956 that described my
>> first transmitter.
>
>Did anyone get "QST: Annual Index" to pull up the annual index for any
>issue of QST?  Returns nothing here _and_ it also highlights (selects)
>the "QEX: Annual Index" and "Ham Radio: Annual Index" entries.
>
>And, why no "QST: Table of Contents"!!
>
>It's easy to trawl through various _columns_ in QST.  But, unless you
>have a pretty good idea what the title is, or who the author was,
>there's no easy way to locate a feature article.
>
>I would assume the _intent_ of putting all this up on the ARRL web site
>is for ARRL Members to find material in old issues of QST.  Why doesn't
>the _implementation__ demonstrate this?  At least give us the Annual
```

>Index(es) and the TOCs.
>

I have about 80 years worth of the QST on CD collection. The tool I
use is the ARRL Periodicals Archive and Search
http://www.arrl.org/members-only/qqnsearch.html

73 de n4jvp

```
From 7079395897382477155
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<878wu2urfu.fsf@hummer.cluon.com> <956f3fee-69e8-4782-
bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
<ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
<GvmdnTUQnMjWOlrVnZ2dnUVZ_tHinZ2d@bright.net>
<79tfc4t34neqfval29spuuaecdfr8sj6gd@4ax.com> <yOVxk.799$Dj1.115@trnddc02>
<itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com>
Subject: Re: CW is a hobby (off topic BWTH)
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <Q_cyk.60$N5.12@nwrddc01.gnilink.net>
Date: Thu, 11 Sep 2008 17:58:08 GMT
NNTP-Posting-Host: 71.104.215.77
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1221155888 71.104.215.77 (Thu, 11 Sep 2008 13:58:08
EDT)
NNTP-Posting-Date: Thu, 11 Sep 2008 13:58:08 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:653
X-Original-Bytes: 1822
```

> If somebody really wants to find you they can. If you give your call it...

Yes this is true, but you don't have to make it easy for them. They will go
after the easy meat first.

The best bet is not to leave anything the robots can parse and dump into a
searchable database. Then nut cases and spam machines with lots of time on
their hands will use someone else. I learned my lesson 10 years ago from
using my callsign for my screen name and winding up with hundreds of people
from all over the world sending me hate mail because some veeagra and sealis

salesmen were spooffing my address.

From 7940187456781252148
X-Google-Thread: fc2a5,5e3c5679427ec543
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!z66g2000hsc.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: QST Archive
Date: Thu, 11 Sep 2008 12:12:19 -0700 (PDT)
Organization: http://groups.google.com
Lines: 36
Message-ID: <44fc7ece-87a4-4c5d-bb5c-0adb4ba9bb2b@z66g2000hsc.googlegroups.com>
References: <48C8500B.9000501@optonline.net> <slrngcibuf.2ni2.bit-bucket@shell.config.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1221160339 23728 127.0.0.1 (11 Sep 2008 19:12:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 11 Sep 2008 19:12:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z66g2000hsc.googlegroups.com; posting-host=170.121.15.35;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:654

On Sep 11, 10:48=A0am, Allodoxaphobia <bit-buc...@config.com> wrote:
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> is for ARRL Members to find material in old issues of QST. =A0Why doesn't
> the _implementation__ demonstrate this? =A0At least give us the Annual
> Index(es) and the TOCs.

If you want an annual index, you type in the year, select the
magazine, set the month to any, and it lists all the articles for that

year.

About locating a feature article... depending on the nature of the article there are keywords like "Construction Project", "Modification", "Homebrew", "QRP", In between title search and keyword search and author search, I've been able to find all the articles that I've been looking for.

Could they improve the searching ability? Oh yeah, sure. I have a freaking hardware-store orgasm every time I go to http://www.mcmaster.com/ just give it a try, I can start typing "Gear Puller" in the search box and even before I finish the word puller, I have the catalog page in front of me with pictures of all the relevant dimensions and types. That's really good! I've used a lot of web-based search utilities and I'd rank the ARRL QST online index/search engine as above average but nowhere near the best.

Tim. N3QE

From 9075307815629300053
X-Google-Thread: fc2a5,a03415ae4e057036,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news2.google.com!postnews.google.com!m44g2000hsc.googlegroups.com!not-for-mail
From: "Gian, I7SWX" <i7swx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: nxp_rf_manual_11th_edition available
Date: Thu, 11 Sep 2008 13:36:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 15
Message-ID: <81e460a2-0a53-49c0-9680-401c00a11595@m44g2000hsc.googlegroups.com>
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X-Trace: posting.google.com 1221165399 7754 127.0.0.1 (11 Sep 2008 20:36:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 11 Sep 2008 20:36:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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     posting-account=udTjrAoAAAAiwxU1IW0RllxgGCbsoHkm
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3106

Hi All,

NXP have just made available their =94RF MANUAL 11th Edition=94

You may download the file visiting:

http://www.nxp.com/acrobat_download/other/discretes/nxp_rf_manual_11th_edit=
ion.pdf

Enjoy the reading and good download

73

Gian
I7SWX

```
From 5935708854100353829
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!s50g2000hsb.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Thu, 11 Sep 2008 15:35:47 -0700 (PDT)
Organization: http://groups.google.com
Lines: 94
Message-ID: <ca9b70ed-a605-48d1-a879-e3b969422238@s50g2000hsb.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
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     <91d34a93-1f80-4795-a0fd-67c4be7c6790@l42g2000hsc.googlegroups.com>
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Injection-Info: s50g2000hsb.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
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     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3107
```

On Sep 1, 7:48=A0pm, raypsi <RBorow...@gmail.com> wrote:

> On Aug 28, 8:39=A0pm, jimmi...@gmail.com wrote:
>
>
>
>
>
> > On Aug 28, 4:02=A0pm, jimmi...@gmail.com wrote:
>

> > > On Aug 27, 12:40=A0pm, raypsi <RBorow...@gmail.com> wrote:
>
> > > > finally came across an article by VK3HZ that describes how to make =
a
> > > > microwave oven inverter PS work, as a stand alone supply.
> > > > the link is:www.users.bigpond.net.au/dwsmith/hv_inverter.pdf
>
> > > > It's only regulated from the primary side. And you can make it put =
out
> > > > anything from 2000 to 4000 VDC. but at 1300 watts.
>
> > > > So all I have to do is load down the primary to fake out the regula=
tor
> > > > into seeing 1300 watts, Or run class A.
>
> > > > The output or the input still has to be filtered
>
> > > > There's an opto coupler that has to see a 110hz square wave, accord=
ing
> > > > to VK3HZ, that'll keep the supply running full tilt as long as ther=
e
> > > > is power supplied to the inverter.
>
> > > > 73
> > > > n8zu
>
> > > If the circuit can be driven from 555 osc perhaps the pulse width can
> > > be controlled from a feedback voltage taken off the output of the
> > > power supply.
> > > I am thinking adding a small winding to the transformer rectifying an=
d
> > > filtering it and supplying this back to control the pulse width of
> > > your osc.
>
> > > JImmie- Hide quoted text -
>
> > > - Show quoted text -
>
> > I was the OP of the origonal thread about the inverter power supplies.
> > I was actually more interested in learning about the design of the
> > power supplies so I could possibly build one from scratch. With the
> > right information this may be easier to do than to modify one from a
> > microwave oven. I am very grateful for the information. I have a
> > couple of the Panasonic power supplies unfortunately they dont work
> > but maybe I can repair them now that I have a schematic. Information
> > on the transformer would be a good thing to have as I am sure it could
> > be optimized for the desired output voltage and current needed for an
> > amateur amplifier.
>
> > With the current transformer on the front end I am guessing this may
> > be the feedback path for regulation. That is to say the power supply
> > is being controlled by the amount of current that is being drawn on
> > the input side of the power supply. If this is the case maybe this

> > input can be taken of the out put of the power supply and then the
> > supply could be voltage regulated instead of being power regulated.
>
> > Jimmie- Hide quoted text -
>
> > - Show quoted text -
>
> Hey Jimmie
>
> I suppose =A0that you could use the duty cycle feature of this supply to
> control the output
> but I'd need a bank of 450WVDC caps to supply filtering.
> So say the power of the amp drops: the supply will compensate by
> increasing the voltage
> But with feedback I could drop the duty cycle thru the opto coupled
> input. Thus causing a drop in voltage which the filter would handle.
> By running the inverter at another lower duty cycle I can control the
> output voltage.
>
> I would suggest at least a bank of 16, 450WVDC for a little head room.
> Plus that would take out the 120 cycle ripple.
>
> 73
>
> n8zu- Hide quoted text -
>
> - Show quoted text -

The mains rectifier could use some filtering too. Im thinking using
the caps out of some old PC power supplies

Jimmie

From 8742018698166311598
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Fri, 12 Sep 2008 16:54:30 +0200 (CEST)
Organization: Mostly In Piles
Lines: 17
Message-ID: <Xns9B1764CBF94AE2MDWN@194.177.96.78>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
<91ebb146-390b-4f57-9ebf-700165e1dfd4@m73g2000hsh.googlegroups.com>
<91d34a93-1f80-4795-a0fd-67c4be7c6790@l42g2000hsc.googlegroups.com>
<2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com> <ca9b70ed-a605-48d1-a879-e3b969422238@s50g2000hsb.googlegroups.com>

NNTP-Posting-Host: xV/5H6uIojLHWTa18+vAbg.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news1.google.com rec.radio.amateur.homebrew:657

jimmie68@gmail.com wrote in
news:ca9b70ed-a605-48d1-a879-e3b969422238@s50g2000hsb.googlegroups.com:

> The mains rectifier could use some filtering too. Im thinking using
> the caps out of some old PC power supplies
>
> Jimmie

Lots of good parts in a PC power supply...

Use the NTC inrush limiter resistors from the old PC supply
too so the caps don't pound the snot out of the on-off switch
and line recifier.

From -2749881951437259231
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
k37g2000hsf.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Fri, 12 Sep 2008 09:08:29 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <443b04c6-c18f-43b2-b709-871b0aae3cbb@k37g2000hsf.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
<91ebb146-390b-4f57-9ebf-700165e1dfd4@m73g2000hsh.googlegroups.com>
<91d34a93-1f80-4795-a0fd-67c4be7c6790@l42g2000hsc.googlegroups.com>
<2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com>
<ca9b70ed-a605-48d1-a879-e3b969422238@s50g2000hsb.googlegroups.com>
<Xns9B1764CBF94AE2MDWN@194.177.96.78>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 12 Sep 2008 16:08:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k37g2000hsf.googlegroups.com; posting-host=204.108.8.5;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf

User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:658

On Sep 12, 10:54=A0am, Grumpy The Mule <s_foo...@foo.bar> wrote:
> jimmi...@gmail.com wrote innews:ca9b70ed-a605-48d1-a879-e3b969422238@s50g=
2000hsb.googlegroups.com:
>
> > The mains rectifier could use some filtering too. Im thinking using
> > the caps out of some old PC power supplies
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> > Jimmie
>
> Lots of good parts in a PC power supply...
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> Use the NTC inrush limiter resistors from the old PC supply
> too so the caps don't pound the snot out of the on-off switch
> and line recifier.

Yeah, I was planning on using pretty much the whole input section to the PC power supply. The one I am looking at I think I can cut out the whole circuit with a coping saw and mount it on some standoffs. This would put the rectifiers and caps on a seperate little chassis and I wont have to shoehorn in the 'lytics on to the inverter board.

I was noticing that the schematic for the 120VAC uwave inverters is pretty much the same as the 240VAC inverter. I was expecting mains input to be different. What I was expecting was a voltage doubler on the 120VAC board since the 240VAC board used a bridge. This would mean that the inverter section is designed to run off of anything from 150VDC to 300VDC . I need to take a closer look at just what are the differences in the 120 and 240 inverters.

Jimmie

Jimmie

From -3768274578066573382
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Sat, 13 Sep 2008 03:49:55 +0200 (CEST)
Organization: Mostly In Piles
Lines: 39

Message-ID: <Xns9B17D3EB150302MDWN@194.177.96.78>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
<91ebb146-390b-4f57-9ebf-700165e1dfd4@m73g2000hsh.googlegroups.com>
<91d34a93-1f80-4795-a0fd-67c4be7c6790@l42g2000hsc.googlegroups.com>
<2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com> <ca9b70ed-a605-48d1-a879-e3b969422238@s50g2000hsb.googlegroups.com>
<Xns9B1764CBF94AE2MDWN@194.177.96.78> <443b04c6-c18f-43b2-b709-871b0aae3cbb@k37g2000hsf.googlegroups.com>
NNTP-Posting-Host: jcQrSm41ZOpz3AXSJyBgvA.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news1.google.com rec.radio.amateur.homebrew:659

jimmie68@gmail.com wrote in
news:443b04c6-c18f-43b2-b709-871b0aae3cbb@k37g2000hsf.googlegroups.com:

> Yeah, I was planning on using pretty much the whole input section to
> the PC power supply. The one I am looking at I think I can cut out the
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> 150VDC to 300VDC . I need to take a closer look at just what are the
> differences in the 120 and 240 inverters.
>
> Jimmie
>
>
> Jimmie
>

Frankenstein style construction. Hopefully you'll be tempted to
shout "IT'S ALIVE!" but without the arcs and sparks.

A 2:1 input range is a piece of cake for a flyback. An 8:1
range isn't unheard of in commodity products. Not being
strictly bounded by the transformer (coupled inductor) turns
ratio can be handy!

There need not be any differences in the power components.
The control parameters important to operation of the oven
might need adjustment though.

That said, optimization for each range could save a few coins.
Make a million ovens or two and it adds up.

```
From 5466035846021700786
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!m44g2000hsc.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Fri, 12 Sep 2008 19:44:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 55
Message-ID: <e6f6b189-dbe1-43a8-8307-9ad29d4ba560@m44g2000hsc.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
     <91ebb146-390b-4f57-9ebf-700165e1dfd4@m73g2000hsh.googlegroups.com>
     <91d34a93-1f80-4795-a0fd-67c4be7c6790@l42g2000hsc.googlegroups.com>
     <2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com>
     <ca9b70ed-a605-48d1-a879-e3b969422238@s50g2000hsb.googlegroups.com>
     <Xns9B1764CBF94AE2MDWN@194.177.96.78> <443b04c6-c18f-43b2-
b709-871b0aae3cbb@k37g2000hsf.googlegroups.com>
     <Xns9B17D3EB150302MDWN@194.177.96.78>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1221273844 2692 127.0.0.1 (13 Sep 2008 02:44:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 13 Sep 2008 02:44:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m44g2000hsc.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:660

On Sep 12, 9:49=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> jimmi...@gmail.com wrote innews:443b04c6-c18f-43b2-b709-871b0aae3cbb@k37g=
2000hsf.googlegroups.com:
>
>
>
>
>
> > Yeah, I was planning on using pretty much the whole input section to
> > the PC power supply. The one I am looking at I think I can cut out the
> > whole circuit with a coping saw and mount it on some standoffs. This
> > would put the rectifiers and caps on a seperate little chassis and I
> > wont have to shoehorn in the 'lytics on to the inverter board.
>
> > I was noticing that the schematic for the 120VAC uwave inverters is
> > pretty much the same as the 240VAC inverter. I was expecting mains
```

> > input to be different. What I was expecting was a voltage doubler on
> > the 120VAC board since the 240VAC board used a bridge. This would mean
> > that the inverter section is designed to run off of anything from
> > 150VDC to 300VDC . I need to take a closer look at just what are the
> > differences in the 120 and 240 inverters.
>
> > Jimmie
>
> > Jimmie
>
> Frankenstein style construction. =A0Hopefully you'll be tempted to
> shout "IT'S ALIVE!" but without the arcs and sparks.
>
> A 2:1 input range is a piece of cake for a flyback. =A0An 8:1
> range isn't unheard of in commodity products. =A0Not being
> strictly bounded by the transformer (coupled inductor) turns
> ratio can be handy!
>
> There need not be any differences in the power components.
> The control parameters important to operation of the oven
> might need adjustment though.
>
> That said, optimization for each range could save a few coins.
> Make a million ovens or two and it adds up.- Hide quoted text -
>
> - Show quoted text -

I went through the parts list for each power supply and their are some
different part #s for the 120vac
compared to the 240vac unit and the wiring is a little different.

Grumpy, did you want a detailed schematic or did I already give you
one?
Send me an email and I will get one to you.

There are part#s for everything. Maybe you could order just the
transformer if you wanted.

Jimmie

From -41055527194745849
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!d77g2000hsb.googlegroups.com!not-for-mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Sat, 13 Sep 2008 13:05:15 -0700 (PDT)
Organization: http://groups.google.com
Lines: 20

```
Message-ID: <00cfe1fa-5fc8-485f-974b-1d0a5749e025@d77g2000hsb.googlegroups.com>
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<878wu2urfu.fsf@hummer.cluon.com>
     <956f3fee-69e8-4782-bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
     <ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
<GvmdnTUQnMjWOlrVnZ2dnUVZ_tHinZ2d@bright.net>
     <79tfc4t34neqfval29spuuaecdfr8sj6gd@4ax.com> <yOVxk.799$Dj1.115@trnddc02>
     <itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com>
<Q_cyk.60$N5.12@nwrddc01.gnilink.net>
NNTP-Posting-Host: 70.212.78.210
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1221336315 4379 127.0.0.1 (13 Sep 2008 20:05:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 13 Sep 2008 20:05:15 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d77g2000hsb.googlegroups.com; posting-host=70.212.78.210;
     posting-account=K8YolwoAAADy0A2iW37gF9k2mykeXqaI
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
     AppleWebKit/525.13 (KHTML, like Gecko) Chrome/0.2.149.29 Safari/
525.13,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3112

On Sep 11, 1:58=A0pm, "JB" <nos...@goofball.net> wrote:
> > If somebody really wants to find you they can. If you give your call it=
...
>
> Yes this is true, but you don't have to make it easy for them. =A0They wi=
ll go
> after the easy meat first.
>
> The best bet is not to leave anything the robots can parse and dump into =
a
> searchable database. =A0Then nut cases and spam machines with lots of tim=
e on
> their hands will use someone else. =A0I learned my lesson 10 years ago fr=
om
> using my callsign for my screen name and winding up with hundreds of peop=
le
> from all over the world sending me hate mail because some veeagra and sea=
lis
> salesmen were spooffing my address.



From -4573524693232712469
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b1g2000hsg.googlegroups.com!not-for-
mail
```

```
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Sat, 13 Sep 2008 13:23:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <93127bb1-7f9e-4810-bf5c-6ac6f564141e@b1g2000hsg.googlegroups.com>
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<878wu2urfu.fsf@hummer.cluon.com>
     <956f3fee-69e8-4782-bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
     <ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
<GvmdnTUQnMjWOlrVnZ2dnUVZ_tHinZ2d@bright.net>
     <79tfc4t34neqfval29spuuaecdfr8sj6gd@4ax.com> <yOVxk.799$Dj1.115@trnddc02>
     <itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com>
<Q_cyk.60$N5.12@nwrddc01.gnilink.net>
NNTP-Posting-Host: 70.212.78.210
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1221337410 7927 127.0.0.1 (13 Sep 2008 20:23:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 13 Sep 2008 20:23:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b1g2000hsg.googlegroups.com; posting-host=70.212.78.210;
     posting-account=K8YolwoAAADy0A2iW37gF9k2mykeXqaI
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US)
     AppleWebKit/525.13 (KHTML, like Gecko) Chrome/0.2.149.29 Safari/
525.13,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3113
```

oops, the above was just a test...

Anyway, the FAA and the ARRL both became concerned with stagnation in the late 50's in the Amateur Service and as a result began to thrash about for ways to keep the service growing... Incentive licensing, and all the other changes we see moaned about on this topic were the result of an actual good-intentions series of changes... Those who believe in conspiracy will never understand that, but that is their loss.. The one thing we won't see is the status quo... Change is a constant, even in the stodgy ranks of hams... So no code it is - for now - and even after more than a half century on the bands I do not proclaim to foresee the future, other than be able to announce with perfect certainty, the regs will change... If you do not like the regs now, just wait - you won't...

Now having said that, I am currently working on a series of homebrew pulse desulfators for batteries.. I have one that has been blown up a couple of times, but for the moment is upgraded and again working on knocking the sulfate off the plates of a tractor battery... It has 13.2 volt float with 51 volt pulses at a frequency of ~1kc and ~80ms pulse width... I have delivered and in hand (just yesterday) roughly a $100 worth of parts to build another ten units... I have the design

for generation II of these that will feature boost and burp charging
with ramping of the pulse frequencies...

Next up for gen III will be a 40 volt charger that will be pulse
width and frequency agile that will both charge and desulphate
simultaneously with a far smaller parts count - the square wave
charging pulses doing both actions simultaneously... Today I am
beginning the first tests of the devices that will be able to switch
30+ amps at 40 volts...

denny - k8do

From 5908317450317562403
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.k-dsl.de!aioe.org!
not-for-mail
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Sat, 13 Sep 2008 16:56:11 -0700
Organization: Aioe.org NNTP Server
Lines: 28
Message-ID: <g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<878wu2urfu.fsf@hummer.cluon.com> <956f3fee-69e8-4782-
bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
<ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
<GvmdnTUQnMjWOlrVnZ2dnUVZ_tHinZ2d@bright.net>
<79tfc4t34neqfval29spuuaecdfr8sj6gd@4ax.com> <yOVxk.799$Dj1.115@trnddc02>
<itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com> <Q_cyk.60$N5.12@nwrddc01.gnilink.net>
<93127bb1-7f9e-4810-bf5c-6ac6f564141e@b1g2000hsg.googlegroups.com>
NNTP-Posting-Host: bKCNcvZ2SZDFBVqhg6ojJw.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Agent 1.91/32.564
Xref: g2news1.google.com rec.radio.amateur.homebrew:663

Denny <k8do@mailblocks.com> wrote:

>Incentive licensing,
>and all the other changes we see moaned about on this topic...

My moaning was because of the *unfairness* of the incentive licensing
frequency changes. I passed an examination for General and I expected to be
able to use those General frequencies. Then they took away half the General
frequencies. Even these many years later (even after having regained those
lost frequencies) I think it was an unfair change.

Some may moan that the FCC now gives advanced licenses with no code test and modern hams don't have to work as hard for the license as hams in years past. Which is true. And some may moan that people can now get an advanced ham license by memorization without knowing the advanced electronics pretended in the testing. Which is true. But not me because it takes nothing away from privileges already earned.

I have an idea (analogy). How about we institute an Extra Plus license. Forget the code test because it's obsolete. But to make sure that the applicant is really qualified he must pass a *real* electronics/digital test, one that can't be passed by memorization. No answer sheets. At the FCC office like in the old days.

And....to make the license desirable we take away half of the current Extra privileges and give them to the new Extra Plus.

Whoa, talk about moaning...

From 278741085501674339
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.k-dsl.de!aioe.org!
not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Sun, 14 Sep 2008 23:56:31 +0200 (CEST)
Organization: Mostly In Piles
Lines: 38
Message-ID: <Xns9B19AC552493D2MDWN@194.177.96.78>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
<91ebb146-390b-4f57-9ebf-700165e1dfd4@m73g2000hsh.googlegroups.com>
<91d34a93-1f80-4795-a0fd-67c4be7c6790@l42g2000hsc.googlegroups.com>
<2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com> <ca9b70ed-a605-48d1-a879-e3b969422238@s50g2000hsb.googlegroups.com>
<Xns9B1764CBF94AE2MDWN@194.177.96.78> <443b04c6-c18f-43b2-b709-871b0aae3cbb@k37g2000hsf.googlegroups.com>
<Xns9B17D3EB150302MDWN@194.177.96.78> <e6f6b189-dbe1-43a8-8307-9ad29d4ba560@m44g2000hsc.googlegroups.com>
NNTP-Posting-Host: ei4SeCjTJvAQ/ZIvwmvxgQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news1.google.com rec.radio.amateur.homebrew:664

Thanks for the schematic Jimmie.

The description of the inverter circuit translated by google says it's both variable frequency pulse and width modulated er... I think. This Could be critical conduction control.

I couldn't find any mention of the flyback topology but my
Portuguese consists of only a dozen or so words that I learned
while living on the east coast and five of those are unseemly.

This Power Supply Reversing receives the 120v or
220v 60Hz AC and provides the entry for the 4000 Vdc
the magnetron tube, before performing the same function
made by the processor and high-capacitor and diode,
high.

. The entry of tension AC120V or 220V 60Hz is retificada
immediately to a voltage DC.

. Voltage DC This will feed a device
IGBT switching required. This device will
chavear On and off for 20 to 40 kHz PWM (Pulse Wide
Modulation) the sign of the microprocessor in the DPC.

. This microprocessor commands the processor high
voltage to amplify and until 2000Vac
3Vac about by the processor.

. Then a circuit of half wave rectifier folder, which
consists of a diode and high voltage capacitors, generate
4000V required for the magnetron.

. The output of the magnetron is always monitored
by the current output of the processor internally
reverse the circuit.

```
From 2625659095870598372
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews6.bellsouth.net.POSTED!ef55a73e!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<878wu2urfu.fsf@hummer.cluon.com>  <956f3fee-69e8-4782-
bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
<ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
<GvmdnTUQnMjWOlrVnZ2dnUVZ_tHinZ2d@bright.net>
```

```
<79tfc4t34neqfval29spuuaecdfr8sj6gd@4ax.com> <yOVxk.799$Dj1.115@trnddc02>
<itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com> <Q_cyk.60$N5.12@nwrddc01.gnilink.net>
<93127bb1-7f9e-4810-bf5c-6ac6f564141e@b1g2000hsg.googlegroups.com>
<g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
In-Reply-To: <g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 42
Message-ID: <qMgzk.34534$vX2.2733@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcbomlodeiggfacmedgfnaejpmbmdhpolmlhlo
fhncnpkfhmjcaajjghnelkageagdaeakckebbflldaemmkogaaecgmpfjelcmangglocldde clkeoo
NNTP-Posting-Date: Sun, 14 Sep 2008 19:04:54 EDT
Organization: BellSouth Internet Group
Date: Sun, 14 Sep 2008 19:06:26 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:665
```

AJ Lake wrote:

> Denny <k8do@mailblocks.com> wrote:
>
>> Incentive licensing,
>> and all the other changes we see moaned about on this topic...
>
> My moaning was because of the *unfairness* of the incentive licensing
> frequency changes. I passed an examination for General and I expected to be
> able to use those General frequencies. Then they took away half the General
> frequencies. Even these many years later (even after having regained those
> lost frequencies) I think it was an unfair change.
>
> Some may moan that the FCC now gives advanced licenses with no code test and
> modern hams don't have to work as hard for the license as hams in years
> past. Which is true. And some may moan that people can now get an advanced
> ham license by memorization without knowing the advanced electronics
> pretended in the testing. Which is true. But not me because it takes nothing
> away from privileges already earned.
>
> I have an idea (analogy). How about we institute an Extra Plus license.
> Forget the code test because it's obsolete. But to make sure that the
> applicant is really qualified he must pass a *real* electronics/digital
> test, one that can't be passed by memorization. No answer sheets. At the FCC
> office like in the old days.
>
> And....to make the license desirable we take away half of the current Extra
> privileges and give them to the new Extra Plus.
>
> Whoa, talk about moaning...

Well, the current extra class license only adds a small slice of extra
phone and cw bandwidth. I lived without the extra class phone segments
for years. Finally got my extra when the cw requirement went away.

The LACK of incentive plus the 20wpm code was the reason so few upgraded

to the extra class, the advanced class license was good enough.
Actually the extra cw segments were the most prized, so the cw
requirement made sense.

As far as techs are concerned... Well I knew quite a few techs who were
very much into home brew radios. Some of the best two meter (and up)
gear I ever saw was home brewed by those guys.
(state of the art in (1970's) mosfet front rx front ends).

```
From -1145154812840931346
X-Google-Thread: fc2a5,b28c4f86525c4bab,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 14 Sep 2008 19:00:56 -0500
From: 2E0EJS <2E0EJS.3135acb@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Yaesu FT530 speaker/mic - pinout
Date: Sun, 14 Sep 2008 19:22:19 +0100
Message-ID: <2E0EJS.3135acb@radiobanter.com>
Organization: RadioBanter.com
Lines: 18
X-Usenet-Provider: http://www.giganews.com
X-Trace:
sv3-6Fq3cMMwjygLi0BchD0KwxJWMm9s96nkg6p4Nnh84mQOm0OR3MnJ7EqMm9ESLROyEWKCFj7h3A2Cyc
U!JkP6KV0StD8Jyslbse4X5MhSorcy5pug2P6fCmy2CDiIbc2WMytsgI6t2fD50G8KZJHjzyzV8Hsv!
gx8=
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Lines: 7
Xref: g2news1.google.com rec.radio.amateur.homebrew:666
```

Hi all
I have an old FT530 kicking around that I wish to use mobile.
My problem is that I need the pinouts of the jack plugs on the speaker
mic so I can emulate these on the plugs of a hands free / remote TX
switch mic.
I have seen various bits of info for connections but none that states
if I need a DC blocking capacitor or not and what do I connect to earth
to make the radio TX (must this be via a resistor?).
I would appreciate any info on this
please................................

Neil 2E0EJS / M3SGC

--
2E0EJS

From -6704719855389876767
X-Google-Thread: fc2a5,e9598abfba311c3b,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 14 Sep 2008 19:00:56 -0500
From: bprid <bprid.3135acb@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Pro-46 scanner mods
Date: Sun, 14 Sep 2008 23:52:25 +0100
Message-ID: <bprid.3135acb@radiobanter.com>
Organization: RadioBanter.com
Lines: 20
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-DHF+kyDTF/HhIzEt3fkxDmWOm2CCNkbZrYnQRuFeioPjddKVYvfBrF/Il1VzT/
SDki3lvmv0TTI4nai!
g4T7q50pGqM8L70wxtal9FCB5To+gOPXG70r+Q76P4RgTvvPfPvKnMvR6AHWbkOpbgBYGF9flutz!3Q==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Lines: 1
Xref: g2news1.google.com rec.radio.amateur.homebrew:667

I have recently bought a pro-46 scanner on ebay with the hope of doing
some modifications to it. One of the modifications i wanted to do was
to restore the cellular frequency to it. I did tons of searching and
found a few sites that had instructions on how to do it but they were
in text and were kind of vague. I got as far as figuring out which
resistors to remove but the problem is i dont know where to solder it
back onto. I tried a few different locations that i thought were
correct but had no sucess. I dont want to just keep trying different
places in fear of ruining the scanner. If anyone has any knowledge of
this topic and could help i would greatly appreciate it. I can also
provide pictures of the board showing what i have taken off and am
hoping that maybe someone could take the picture and actually show me
exactly where the resistor needs to go. Any help would be appreciated.
Thanks

--

bprid

From 5098155538763701536
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!eweka.nl!
lightspeed.eweka.nl!feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Sun, 14 Sep 2008 19:45:36 -0700
Organization: Aioe.org NNTP Server
Lines: 33
Message-ID: <1igrc41dls8pj2jrejt44dpq4h4qdi0o6r@4ax.com>
References: <956f3fee-69e8-4782-bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
<ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
<GvmdnTUQnMjWOlrVnZ2dnUVZ_tHinZ2d@bright.net>
<79tfc4t34neqfval29spuuaecdfr8sj6gd@4ax.com> <yOVxk.799$Dj1.115@trnddc02>
<itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com> <Q_cyk.60$N5.12@nwrddc01.gnilink.net>
<93127bb1-7f9e-4810-bf5c-6ac6f564141e@b1g2000hsg.googlegroups.com>
<g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
<qMgzk.34534$vX2.2733@bignews6.bellsouth.net>
NNTP-Posting-Host: HujEZ7P3CHXmf3pqAe0VVA.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Agent 1.91/32.564
Xref: g2news1.google.com rec.radio.amateur.homebrew:668

ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net> wrote:

>The LACK of incentive plus the 20wpm code was the reason so few upgraded
> to the extra class,

Correct. Before Incentive Licensing there was not much incentive to go above General since there were no additional privileges. Those who did upgrade to Extra did it for the accomplishment.

And since it was a real (no answers supplied) exam before an official FCC examiner it did show accomplishment. Hams of the day often listed it on employment applications alongside their commercial licenses.

>Actually the extra cw segments were the most prized,

Only if you are a CW DXer. And even before the change, by gentlemans agreement the bottom of the CW band was left for DXers and casual CW operation was higher, pretty much like now.

>so the cw requirement made sense

IMO the only justification for the code test (at that time) was for possible emergency use. As an example a ship in distress, since many ships were still using CW at the time. But other than that making a ham take a special code test made about as much sense as making him take a special soldering test. That was finally recognized recently...

>As far as techs are concerned... Well I knew quite a few techs who were
>very much into home brew radios.

As it should be. The Tech license was supposed to be for technical use, not just another operators license. But of course that was a laugh. Most Techs bought their equipment and set up shop on the nearest local repeater...

From -1469398679889289119
X-Google-Thread: fc2a5,e9598abfba311c3b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.k-dsl.de!aioe.org!not-for-mail
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Pro-46 scanner mods
Date: Sun, 14 Sep 2008 20:02:57 -0700
Organization: Aioe.org NNTP Server
Lines: 9
Message-ID: <sdjrc4t02hhkf364laf2jg8prhoapoiob7@4ax.com>
References: <bprid.3135acb@radiobanter.com>
NNTP-Posting-Host: HujEZ7P3CHXmf3pqAe0VVA.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Agent 1.91/32.564
Xref: g2news1.google.com rec.radio.amateur.homebrew:669

bprid <bprid.3135acb@radiobanter.com> wrote:

>I have recently bought a pro-46 scanner on ebay with the hope of doing
>some modifications to it. One of the modifications i wanted to do was
>to restore the cellular frequency to it.

Hasn't most analog cellular service has been shut down by now? If so your scanner will receive mostly digital hash on the cellular frequencies. Might be wasting your time.

From 2168391631704709804
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!34g2000hsh.googlegroups.com!not-for-

```
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Sun, 14 Sep 2008 21:57:02 -0700 (PDT)
Organization: http://groups.google.com
Lines: 54
Message-ID: <864a548a-00dd-433a-95a5-3bde58880214@34g2000hsh.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
     <91ebb146-390b-4f57-9ebf-700165e1dfd4@m73g2000hsh.googlegroups.com>
     <91d34a93-1f80-4795-a0fd-67c4be7c6790@l42g2000hsc.googlegroups.com>
     <2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com>
     <ca9b70ed-a605-48d1-a879-e3b969422238@s50g2000hsb.googlegroups.com>
     <Xns9B1764CBF94AE2MDWN@194.177.96.78> <443b04c6-c18f-43b2-
b709-871b0aae3cbb@k37g2000hsf.googlegroups.com>
     <Xns9B17D3EB150302MDWN@194.177.96.78> <e6f6b189-
dbe1-43a8-8307-9ad29d4ba560@m44g2000hsc.googlegroups.com>
     <Xns9B19AC552493D2MDWN@194.177.96.78>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1221454623 20295 127.0.0.1 (15 Sep 2008 04:57:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 15 Sep 2008 04:57:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 34g2000hsh.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     FunWebProducts; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:670

On Sep 14, 5:56=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> Thanks for the schematic Jimmie.
>
> The description of the inverter circuit translated by google
> says it's both variable frequency pulse and width modulated
> er... I think. =A0This Could be critical conduction control.
>
> I couldn't find any mention of the flyback topology but my
> Portuguese consists of only a dozen or so words that I learned
> while living on the east coast and five of those are unseemly.
> -------------------------------------------------------------
>
> This Power Supply Reversing receives the 120v or
> 220v 60Hz AC and provides the entry for the 4000 Vdc
> the magnetron tube, before performing the same function
> made by the processor and high-capacitor and diode,
> high.
>
> . The entry of tension AC120V or 220V 60Hz is retificada
> immediately to a voltage DC.
```

>
> . Voltage DC This will feed a device
> IGBT switching required. This device will
> chavear On and off for 20 to 40 kHz PWM (Pulse Wide
> Modulation) the sign of the microprocessor in the DPC.
>
> . This microprocessor commands the processor high
> voltage to amplify and until 2000Vac
> 3Vac about by the processor.
>
> . Then a circuit of half wave rectifier folder, which
> consists of a diode and high voltage capacitors, generate
> 4000V required for the magnetron.
>
> . The output of the magnetron is always monitored
> by the current output of the processor internally
> reverse the circuit.

This thing seems to be regulated primarily by the input CURRENT which would be the same as power and David Smith said in his discription. I think the answer to using it as a power supply is to turn it into a VOLTAGE regulated power supply by taking a voltage sample off of the HV transformer, possible by adding a couple of turns coil to the transformer, and replacing the input from the current transformer with this one. Naturally the inpit to IINDO may have to be suitably modified also.

I cant remember now where I saw it refered to as a.flyback circuit but it said "FLYBACK" no trouble with translation.

I will look for it tonight.

Jimmie

From 2242013754830825809
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.cpinternet!news.posted.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 15 Sep 2008 00:28:32 -0500
Date: Mon, 15 Sep 2008 00:34:13 -0500
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
References: <956f3fee-69e8-4782-bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>

<ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
<GvmdnTUQnMjWOlrVnZ2dnUVZ_tHinZ2d@bright.net>
<79tfc4t34neqfval29spuuaecdfr8sj6gd@4ax.com> <yOVxk.799$Dj1.115@trnddc02>
<itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com> <Q_cyk.60$N5.12@nwrddc01.gnilink.net>
<93127bb1-7f9e-4810-bf5c-6ac6f564141e@b1g2000hsg.googlegroups.com>
<g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
<qMgzk.34534$vX2.2733@bignews6.bellsouth.net>
<1igrc41dls8pj2jrejt44dpq4h4qdi0o6r@4ax.com>
In-Reply-To: <1igrc41dls8pj2jrejt44dpq4h4qdi0o6r@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <ct2dnf5o_rodb1DVnZ2dnUVZ_qXinZ2d@posted.cpinternet>
Lines: 25
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-
A3giW1VkoLnQ+H7B4knf63OUWIO5l+SYzPK2zr7ijysvJXbyFUr0pDGFWr6vr7oTAlO6K4X5TLvdvPS!
TDT5ODKBuW/brRswfEVmhTogHqvcJvw/PMZj/sO1dP9Wqwr/aNirsl62QRRYRtG1iFaObhMI1yRo!
InN+tC7WzBqYV4Ut7GY5Lg==
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:671

AJ Lake wrote:

> ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net> wrote:

<snip>
>>As far as techs are concerned... Well I knew quite a few techs who were
>>very much into home brew radios.
>
>
> As it should be. The Tech license was supposed to be for technical use, not
> just another operators license. But of course that was a laugh. Most Techs
> bought their equipment and set up shop on the nearest local repeater...

Experimenter Techs were the norm IMHO before the debacle of license class changes in the late '70s, and anything related to repeaters before then involved significant accomplishment ;) Please don't lump 'new' Techs with 'original' Techs.

BTW, if anyone knows, I'd appreciate knowing what the grace period after expiration was in 1975 (I was told by a field-office rep that my expired Advanced couldn't be renewed and later I was told that I was probably misinformed and was within a grace period, but I could never confirm that fact).

Michael

```
From -2674742678762078006
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: AJ Lake <nomail@nomail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Sun, 14 Sep 2008 23:07:26 -0700
Organization: Aioe.org NNTP Server
Lines: 16
Message-ID: <gaktuv$mfc$1@aioe.org>
References: <956f3fee-69e8-4782-bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
<ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
<GvmdnTUQnMjWOlrVnZ2dnUVZ_tHinZ2d@bright.net>
<79tfc4t34neqfval29spuuaecdfr8sj6gd@4ax.com> <yOVxk.799$Dj1.115@trnddc02>
<itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com> <Q_cyk.60$N5.12@nwrddc01.gnilink.net>
<93127bb1-7f9e-4810-bf5c-6ac6f564141e@b1g2000hsg.googlegroups.com>
<g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
<qMgzk.34534$vX2.2733@bignews6.bellsouth.net>
<1igrc41dls8pj2jrejt44dpq4h4qdi0o6r@4ax.com>
<ct2dnf5o_rodb1DVnZ2dnUVZ_qXinZ2d@posted.cpinternet>
NNTP-Posting-Host: HujEZ7P3CHXmf3pqAe0VVA.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Complaints-To: abuse@aioe.org
User-Agent: KNode/0.9.2
Xref: g2news1.google.com rec.radio.amateur.homebrew:672
```

msg wrote:

> Experimenter Techs were the norm IMHO before the debacle of license
> class changes

I may have met one or two Tech experimenters but the only reason they were Tech experimenters and not General or Extra experimenters was they couldn't get their code speed up. Which is why I always thought that the concept of a Tech being an experimenter type license kind of silly.

Heck there is an electronics whiz named Cecil with a web site all about neat antenna ideas of his. He surely fits the experimenter mold. For eons on these newsgroups he said he wouldn't have an Extra if they gave it to him. Absolutely no need said he. But when the code went away guess what. Yup he's an Extra. So IMO the license class has little to do with being an experimenter...

```
From -7392146430513931780
X-Google-Thread: fc2a5,e9598abfba311c3b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
teal.octanews.net!news-out.octanews.net!indigo.octanews.net!
auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Pro-46 scanner mods
Date: Mon, 15 Sep 2008 01:49:08 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.09.15.08.49.08.280188@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <bprid.3135acb@radiobanter.com>
<sdjrc4t02hhkf364laf2jg8prhoapoiob7@4ax.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 19
Organization: Octanews
NNTP-Posting-Date: 15 Sep 2008 03:49:12 CDT
X-Complaints-To: abuse@octanews.net
X-Original-Bytes: 1393
Xref: g2news1.google.com rec.radio.amateur.homebrew:673

On Sun, 14 Sep 2008 20:02:57 -0700, AJ Lake wrote:

> bprid <bprid.3135acb@radiobanter.com> wrote:
>
>>I have recently bought a pro-46 scanner on ebay with the hope of doing
>>some modifications to it.  One of the modifications i wanted to do was
>>to restore the cellular frequency to it.
>
> Hasn't most analog cellular service has been shut down by now? If so your
> scanner will receive mostly digital hash on the cellular frequencies. Might
> be wasting your time.

Not everywhere.

There are still analog sites in remote/rugged terrains where digital is
useless... like northern Alberta.

Cheers!




From 8004596405963103499
X-Google-Thread: fc2a5,89f491487adb55e6,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y38g2000hsy.googlegroups.com!not-for-
mail
From: beerbarrel <beerbarrel@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: Millen Grid dip meter
```

```
Date: Mon, 15 Sep 2008 04:04:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 2
Message-ID: <e8ecbff1-f5e0-4975-bbc9-3f94f5da2c91@y38g2000hsy.googlegroups.com>
NNTP-Posting-Host: 24.252.195.51
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1221476657 24443 127.0.0.1 (15 Sep 2008 11:04:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 15 Sep 2008 11:04:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y38g2000hsy.googlegroups.com; posting-host=24.252.195.51;
     posting-account=78jf7goAAABAyQ2nIxOSCv2y5chxwjts
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; Creative ZENcast v2.01.01),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:674

170262279457




From -5104574131283023822
X-Google-Thread: fc2a5,b28c4f86525c4bab
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 15 Sep 2008 09:37:19 -0500
Date: Mon, 15 Sep 2008 15:37:11 +0100
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Yaesu FT530 speaker/mic - pinout
References: <2E0EJS.3135acb@radiobanter.com>
In-Reply-To: <2E0EJS.3135acb@radiobanter.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <24adncxMmr6C7lPVnZ2dneKdnZydnZ2d@pipex.net>
Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.85.225
X-Trace: sv3-DAVI+c7TU0RBvKgDMq/
YWFUzsJRnrPinKsQXSi2UF7k3yOdbT5uVTv2zSwzy1yAKr2VDHY5IdtHElpQ!J34/
NmcyW1+J1hz5xciuo3MUFKs2xxTCHLBWyxvHJWUQ4mTAKfk31ArlfNT+twO0QKrNPCkfo7yi!
DjXSlx8t2Li4N6dfp52CyU30oQ==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:675

2E0EJS wrote:
> Hi all
> I have an old FT530 kicking around that I wish to use mobile.
> My problem is that I need the pinouts of the jack plugs on the speaker
> mic so I can emulate these on the plugs of a hands free / remote TX
> switch mic.
> I have seen various bits of info for connections but none that states
> if I need a DC blocking capacitor or not and what do I connect to earth
> to make the radio TX (must this be via a resistor?).
> I would appreciate any info on this
> please..............................

==
  Neil 2E0EJS / M3SGC
You can find the manual + circuit diagramme for the FT530   at ;
www.mods.dk   Goto Manuals ---> Yaesu ---> FT530

If you are not (financially)contributing to that site you are allowed to
make 1 download per day (24 hrs)

Good Luck

Frank   GM0CSZ / KN6WH

From 4996179177652190829
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!25g2000hsx.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Mon, 15 Sep 2008 09:33:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 70
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References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
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     <Xns9B17D3EB150302MDWN@194.177.96.78> <e6f6b189-

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NNTP-Posting-Host: 75.190.189.120
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X-Trace: posting.google.com 1221496400 23969 127.0.0.1 (15 Sep 2008 16:33:20 GMT)
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     FunWebProducts; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:676

On Sep 15, 12:57=A0am, jimmi...@gmail.com wrote:
> On Sep 14, 5:56=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
>
>
>
>
>
> > Thanks for the schematic Jimmie.
>
> > The description of the inverter circuit translated by google
> > says it's both variable frequency pulse and width modulated
> > er... I think. =A0This Could be critical conduction control.
>
> > I couldn't find any mention of the flyback topology but my
> > Portuguese consists of only a dozen or so words that I learned
> > while living on the east coast and five of those are unseemly.
> > -------------------------------------------------------------
>
> > This Power Supply Reversing receives the 120v or
> > 220v 60Hz AC and provides the entry for the 4000 Vdc
> > the magnetron tube, before performing the same function
> > made by the processor and high-capacitor and diode,
> > high.
>
> > . The entry of tension AC120V or 220V 60Hz is retificada
> > immediately to a voltage DC.
>
> > . Voltage DC This will feed a device
> > IGBT switching required. This device will
> > chavear On and off for 20 to 40 kHz PWM (Pulse Wide
> > Modulation) the sign of the microprocessor in the DPC.
>
> > . This microprocessor commands the processor high
> > voltage to amplify and until 2000Vac
> > 3Vac about by the processor.
```

```
>
> > . Then a circuit of half wave rectifier folder, which
> > consists of a diode and high voltage capacitors, generate
> > 4000V required for the magnetron.
>
> > . The output of the magnetron is always monitored
> > by the current output of the processor internally
> > reverse the circuit.
>
> This thing seems to be regulated primarily by the input CURRENT which
> would be the same as power and David Smith said in his discription. I
> think the answer to using it as a power supply is to turn it into a
> VOLTAGE regulated power supply by taking a voltage sample off of the
> HV transformer, possible by adding a couple of turns coil to the
> transformer, and replacing the input from the current transformer with
> this one. Naturally the inpit to IINDO may have to be suitably
> modified also.
>
> I cant remember now where I saw it refered to as a.flyback circuit but
> it said "FLYBACK" no trouble with translation.
>
> I will look for it tonight.
>
> Jimmie- Hide quoted text -
>
> - Show quoted text -

While brows varios inverter circuits I began to wonder  how difficult
would it be to convert a pulse width modulated power supply into a
power supply /AM modulator. Could this be as simple as appling audio
on the feedback path between the output and the PWM circuit. Just an
idle thought.


Jimmie


From 5789713754036267658
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Mon, 15 Sep 2008 11:57:21 -0500
Date: Mon, 15 Sep 2008 17:57:19 +0100
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
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Subject: Re: microwave oven inverter P.S. revisited
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
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dbe1-43a8-8307-9ad29d4ba560@m44g2000hsc.googlegroups.com>
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<864a548a-00dd-433a-95a5-3bde58880214@34g2000hsh.googlegroups.com> <68d71c04-
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:677
```

jimmie68@gmail.com wrote:
snip
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You can see how this is done in an article in QEX-July.August 1999
,pages 50-55. 'A regulated 2400 V power supply ' by VE6AXW

Frank GM0CSZ / KN6WH

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From 3429630275273393375
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!a70g2000hsh.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Mon, 15 Sep 2008 10:53:47 -0700 (PDT)
Organization: http://groups.google.com
Lines: 27
Message-ID: <18216228-3c5a-4cf2-ac38-ea577aff8f6d@a70g2000hsh.googlegroups.com>
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     FunWebProducts; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:678

On Sep 15, 12:57=A0pm, Highland Ham <rfbu...@allbands.net> wrote:
> jimmi...@gmail.com wrote:
>
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> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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```

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>
> Frank =A0GM0CSZ / KN6WH

Thanks Frank, but I dont have QEX or access

Jimmie

```
From -2732560161271464085
X-Google-Thread: fc2a5,e69d33ee065dd08a
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User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
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In-Reply-To: <18216228-3c5a-4cf2-ac38-ea577aff8f6d@a70g2000hsh.googlegroups.com>
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mk-nntp-1.news.uk.tiscali.com!mk-nntp-2.news.uk.tiscali.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:679
```

jimmie68@gmail.com wrote:
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>>
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>>
>> Frank GM0CSZ / KN6WH
>
> Thanks Frank, but I dont have QEX or access
>
> Jimmie
http://www.realhamradio.com/hvreg.pdf

for a schematic.

hth

Steve H

From 9172681169661707881
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
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nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
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Date: Mon, 15 Sep 2008 20:03:14 +0100
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
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X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:680

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```

```
>>
>> Jimmie
======================================
> http://www.realhamradio.com/hvreg.pdf
>
> for a schematic.
>
> hth
>
> Steve H
=================================
Indeed ,that's the one.  Tnx Steve for the interesting URL

Frank   GM0CSZ / KN6WH


From 1985931888307636108
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!m44g2000hsc.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Mon, 15 Sep 2008 14:04:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 70
Message-ID: <d2624156-5f70-4a0e-a422-5c6a6502a723@m44g2000hsc.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
     <2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com>
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     <Xns9B1764CBF94AE2MDWN@194.177.96.78> <443b04c6-c18f-43b2-
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     <yNydnVrnzd1sDlPVnZ2dnUVZ8j2dnZ2d@pipex.net> <18216228-3c5a-4cf2-ac38-
ea577aff8f6d@a70g2000hsh.googlegroups.com>
     <48cea46f$1_4@mk-nntp-2.news.uk.tiscali.com>
<dZKdnd86R5fnLFPVnZ2dneKdnZydnZ2d@pipex.net>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1221512645 12862 127.0.0.1 (15 Sep 2008 21:04:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 15 Sep 2008 21:04:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m44g2000hsc.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
```

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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     FunWebProducts; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:681

On Sep 15, 3:03=A0pm, Highland Ham <rfbu...@allbands.net> wrote:
> steve H wrote:
> > jimmi...@gmail.com wrote:
> >> On Sep 15, 12:57 pm, Highland Ham <rfbu...@allbands.net> wrote:
> >>> jimmi...@gmail.com wrote:
>
> >>> snip>> This thing seems to be regulated primarily by the input
> >>> CURRENT which
> >>>>> would be the same as power and David Smith said in his discription.=
 I
> >>>>> think the answer to using it as a power supply is to turn it into a
> >>>>> VOLTAGE regulated power supply by taking a voltage sample off of th=
e
> >>>>> HV transformer, possible by adding a couple of turns coil to the
> >>>>> transformer, and replacing the input from the current transformer w=
ith
> >>>>> this one. Naturally the inpit to IINDO may have to be suitably
> >>>>> modified also.
> >>> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
> >>> You might consider taking a voltage sample by 'tapping' a low DC volt=
age
> >>> fraction from the HV output ,putting that into an opamp with adjustab=
le
> >>> output.
>
> >>> You can see how this is done in an article =A0in QEX-July.August 1999
> >>> ,pages 50-55. 'A regulated 2400 V power supply ' by VE6AXW
>
> >>> Frank =A0GM0CSZ / KN6WH
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D>> Thanks=
 Frank, but I dont have QEX or access
>
> >> Jimmie
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D>http://www.realhamradio.com/hvre=
g.pdf
>
> > for a schematic.
>
> > hth
>
> > Steve H
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
```

=3D=3D=3D=3D=3D=3D=3D=3D=3D
> Indeed ,that's the one. =A0Tnx Steve for the interesting URL
>
> Frank =A0 GM0CSZ / KN6WH- Hide quoted text -
>
> - Show quoted text -

Is there any more info on the circuit besides the schematic?

This looks like something I could build and I probably already have
most of the parts.

I see it uses SCRs for switching. I guess there is no problem with
latchup. I built a 400Hz inverter one time and it seemed to work for a
while until one day it latched up on me and smoked. I had been using
it to power some selsyn motors. Someone plugged a soldering iron into
the inverter and I think it was a little too much load. I guess that
is what I get for not labeling my outlets.

Jimmie

```
From -5266565848345576595
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!
199.45.49.37!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!
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Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <956f3fee-69e8-4782-bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
<ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
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Subject: Re: CW is a hobby (off topic BWTH)
Lines: 23
MIME-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <A%Bzk.176$Jw.134@nwrddc02.gnilink.net>
Date: Mon, 15 Sep 2008 23:14:40 GMT
NNTP-Posting-Host: 71.110.234.88
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1221520480 71.110.234.88 (Mon, 15 Sep 2008 19:14:40
EDT)
NNTP-Posting-Date: Mon, 15 Sep 2008 19:14:40 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:682

> I may have met one or two Tech experimenters but the only reason they were
> Tech experimenters and not General or Extra experimenters was they
couldn't
> get their code speed up. Which is why I always thought that the concept of
> a Tech being an experimenter type license kind of silly.
>
> Heck there is an electronics whiz named Cecil with a web site all about
neat
> antenna ideas of his. He surely fits the experimenter mold. For eons on
> these newsgroups he said he wouldn't have an Extra if they gave it to him.
> Absolutely no need said he. But when the code went away guess what. Yup
> he's an Extra. So IMO the license class has little to do with being an
> experimenter...

This whole line is silly because there are all kinds of experimenters in all
license classes (and unlicensed) so how does the fact that I can experiment
on any frequency make any difference.

BTW repeaters are old hat.  Hams were doing remote bases and repeaters in
the 50's.  The biggest changes have been all the available off-the-shelf
equipment since the 70's that spawned the appliance operators that need help
to put up a mag mount antenna.



From -9102912093114716404
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!
newshosting.com!130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller.gnilink.net!
gnilink.net!nwrddc02.gnilink.net.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <956f3fee-69e8-4782-bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
<ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
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<itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com> <Q_cyk.60$N5.12@nwrddc01.gnilink.net>
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```

<g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <13Czk.177$Jw.106@nwrddc02.gnilink.net>
Date: Mon, 15 Sep 2008 23:18:21 GMT
NNTP-Posting-Host: 71.110.234.88
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1221520701 71.110.234.88 (Mon, 15 Sep 2008 19:18:21 EDT)
NNTP-Posting-Date: Mon, 15 Sep 2008 19:18:21 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:683

> BTW, if anyone knows, I'd appreciate knowing what the grace period after
> expiration was in 1975 (I was told by a field-office rep that my expired
> Advanced couldn't be renewed and later I was told that I was probably
> misinformed and was within a grace period, but I could never confirm that
> fact).
>
> Michael

I thought it was 2 years but it never affected me so I'm not positive. The
upside is you can probably go get a new one with a weeks worth of brush-up.

From 4472213067863335280
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Tue, 16 Sep 2008 02:09:52 +0200 (CEST)
Organization: Mostly In Piles
Lines: 19
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<91ebb146-390b-4f57-9ebf-700165e1dfd4@m73g2000hsh.googlegroups.com>
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a605-48d1-a879-e3b969422238@s50g2000hsb.googlegroups.com>
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b709-871b0aae3cbb@k37g2000hsf.googlegroups.com>
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nntp-2.news.uk.tiscali.com>
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X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news1.google.com rec.radio.amateur.homebrew:684

Ugh! It's very similar to a power supply I worked on in the
mid-1970's for a tacan pulse power calibration system. The
scars had almost healed. There's not much advantage in it
over a vintage blood and thunder supply beyond improved
regulation. No reduction in the amount of steel or output
capacitance needed... lots of stored energy.

Though I did learn a lot about PUT's and SCR's in the process
so overall it was fun. It's also when I learned that power
supply engineers always run Towards the explosion.

steve H
> http://www.realhamradio.com/hvreg.pdf
>
> for a schematic.

From -8701222063532977224
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 15 Sep 2008 21:12:10 -0500
From: "Bryan" <bryan.swadenerNOSPAM@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <956f3fee-69e8-4782-bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
<ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
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<g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
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X-MSMail-Priority: Normal
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X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <b4udnTBjqJJniFLVnZ2dnUVZ_j2dnZ2d@giganews.com>
Lines: 44
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X-Trace: sv3-
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UjSk9/NyazjiU5okLXcPh8JXqRUfyQn6WpyOZ7E4pBT8ZRgY1+Rr60oHSXCyEGVvt5LeWlwiRNQ=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:685

msg wrote:
> AJ Lake wrote:
>
>> ken scharf wrote:
>
> <snip>
>>>As far as techs are concerned... Well I knew quite a few techs who were
>>>very much into home brew radios.
>>
>>
>> As it should be. The Tech license was supposed to be for technical use,
>> not
>> just another operators license. But of course that was a laugh. Most
>> Techs
>> bought their equipment and set up shop on the nearest local repeater...
>
> Experimenter Techs were the norm IMHO before the debacle of license
> class changes in the late '70s, and anything related to repeaters before
> then involved significant accomplishment ;)  Please don't lump 'new' Techs
> with 'original' Techs.
>
> BTW, if anyone knows, I'd appreciate knowing what the grace period after
> expiration was in 1975 (I was told by a field-office rep that my expired
> Advanced couldn't be renewed and later I was told that I was probably
> misinformed and was within a grace period, but I could never confirm that
> fact).
>
> Michael
```

Hi Michael,

Yep -- there wasn't a lot of commercial off-the-shelf equipment available (that didn't require any modification) until the mid-late 70s. It was common for a VHFer to modify a Motorola/GE/etc unit to operate on the ham bands.

IIRC, the grace period used to be 1 year but nowadays, it appears to be 2 years w/o having to retake a test:
http://wireless.fcc.gov/services/index.htm?job=cft&id=amateur&page=cft_renew_amateur

vy 73 es cul,
Bryan WA7PRC

From 7510322463093068114
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!aioe.org!not-for-mail
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Mon, 15 Sep 2008 21:11:00 -0700
Organization: Aioe.org NNTP Server
Lines: 17
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Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Agent 1.91/32.564
Xref: g2news1.google.com rec.radio.amateur.homebrew:686

"Bryan" <bryan.swadenerNOSPAM@comcast.net> wrote:

>there wasn't a lot of commercial off-the-shelf equipment available
>(that didn't require any modification) until the mid-late 70s. It was
>common for a VHFer to modify a Motorola/GE/etc unit to operate on the ham

>bands.

There was modification of commercial/war surplus gear done by all classes of hams, for all the ham bands, over much of ham history. The Technician (and VHFer) had no lock on modification.

But more important for this discussion, the Technician Class License was defined and supposed to be an 'experimenter' license not a 'modification' license.

And of course most Techs, however they got their gear working, (modification or appliance op), used it as a communicator anyway...

```
From -9209278207956102624
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Mon, 15 Sep 2008 21:11:01 -0700
Organization: Aioe.org NNTP Server
Lines: 13
Message-ID: <dibuc4lhqoap76900p0injulgbspup0uol@4ax.com>
References: <79tfc4t34neqfval29spuuaecdfr8sj6gd@4ax.com>
<yOVxk.799$Dj1.115@trnddc02> <itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com>
<Q_cyk.60$N5.12@nwrddc01.gnilink.net> <93127bb1-7f9e-4810-
bf5c-6ac6f564141e@b1g2000hsg.googlegroups.com>
<g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
<qMgzk.34534$vX2.2733@bignews6.bellsouth.net>
<1igrc41dls8pj2jrejt44dpq4h4qdi0o6r@4ax.com>
<ct2dnf5o_rodb1DVnZ2dnUVZ_qXinZ2d@posted.cpinternet> <gaktuv$mfc$1@aioe.org>
<A%Bzk.176$Jw.134@nwrddc02.gnilink.net>
NNTP-Posting-Host: HujEZ7P3CHXmf3pqAe0VVA.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Agent 1.91/32.564
Xref: g2news1.google.com rec.radio.amateur.homebrew:687
```

"JB" <nospam@goofball.net> wrote:

>there are all kinds of experimenters in all license classes

The Technician (only) was defined as an experimenters license (in the 50s).

>This whole line is silly

That's what I said. All the Techs I knew then were mostly communicators.

>BTW repeaters are old hat. Hams were doing...repeaters in the 50's.

Unattended repeaters were illegal in the 50s.

```
From 5588621436189403249
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc01.POSTED!1bc6af47!
not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <79tfc4t34neqfval29spuuaecdfr8sj6gd@4ax.com>
<yOVxk.799$Dj1.115@trnddc02> <itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com>
<Q_cyk.60$N5.12@nwrddc01.gnilink.net> <93127bb1-7f9e-4810-
bf5c-6ac6f564141e@b1g2000hsg.googlegroups.com>
<g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
<qMgzk.34534$vX2.2733@bignews6.bellsouth.net>
<1igrc41dls8pj2jrejt44dpq4h4qdi0o6r@4ax.com>
<ct2dnf5o_rodb1DVnZ2dnUVZ_qXinZ2d@posted.cpinternet> <gaktuv$mfc$1@aioe.org>
<A%Bzk.176$Jw.134@nwrddc02.gnilink.net>
<dibuc4lhqoap76900p0injulgbspup0uol@4ax.com>
Subject: Re: CW is a hobby (off topic BWTH)
Lines: 20
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <FLGzk.295$8v5.133@trnddc01>
Date: Tue, 16 Sep 2008 04:39:01 GMT
NNTP-Posting-Host: 71.110.234.88
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc01 1221539941 71.110.234.88 (Tue, 16 Sep 2008 00:39:01 EDT)
NNTP-Posting-Date: Tue, 16 Sep 2008 00:39:01 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:688
X-Original-Bytes: 2036
```

"AJ Lake" <nomail@fakeaddress.com> wrote in message
news:dibuc4lhqoap76900p0injulgbspup0uol@4ax.com...
> "JB" <nospam@goofball.net> wrote:
>
> >there are all kinds of experimenters in all license classes
>

> The Technician (only) was defined as an experimenters license (in the
50s).
>
> >This whole line is silly
>
> That's what I said. All the Techs I knew then were mostly communicators.
>
> >BTW repeaters are old hat. Hams were doing...repeaters in the 50's.
>
> Unattended repeaters were illegal in the 50s.

A remote base is different from an unattended repeater.

From 6743103362980627803
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Mon, 15 Sep 2008 21:50:09 -0700
Organization: Aioe.org NNTP Server
Lines: 6
Message-ID: <fkeuc4l9or52ivdhcqjljqd4nrd398vain@4ax.com>
References: <itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com>
<Q_cyk.60$N5.12@nwrddc01.gnilink.net> <93127bb1-7f9e-4810-bf5c-6ac6f564141e@b1g2000hsg.googlegroups.com>
<g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
<qMgzk.34534$vX2.2733@bignews6.bellsouth.net>
<1igrc41dls8pj2jrejt44dpq4h4qdi0o6r@4ax.com>
<ct2dnf5o_rodb1DVnZ2dnUVZ_qXinZ2d@posted.cpinternet> <gaktuv$mfc$1@aioe.org>
<A%Bzk.176$Jw.134@nwrddc02.gnilink.net>
<dibuc4lhqoap76900p0injulgbspup0uol@4ax.com> <FLGzk.295$8v5.133@trnddc01>
NNTP-Posting-Host: HujEZ7P3CHXmf3pqAe0VVA.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Agent 1.91/32.564
Xref: g2news1.google.com rec.radio.amateur.homebrew:689

"JB" <nospam@goofball.net> wrote:

>A remote base is different from an unattended repeater.

An unattended anything in the 50s was illegal.

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From -6983667318293111631
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!m44g2000hsc.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Tue, 16 Sep 2008 11:32:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <5b80758c-9cd7-4421-8ebf-8be8e4152e2e@m44g2000hsc.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
     <91d34a93-1f80-4795-a0fd-67c4be7c6790@l42g2000hsc.googlegroups.com>
     <2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com>
     <ca9b70ed-a605-48d1-a879-e3b969422238@s50g2000hsb.googlegroups.com>
     <Xns9B1764CBF94AE2MDWN@194.177.96.78> <443b04c6-c18f-43b2-
b709-871b0aae3cbb@k37g2000hsf.googlegroups.com>
     <Xns9B17D3EB150302MDWN@194.177.96.78> <e6f6b189-
dbe1-43a8-8307-9ad29d4ba560@m44g2000hsc.googlegroups.com>
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<864a548a-00dd-433a-95a5-3bde58880214@34g2000hsh.googlegroups.com>
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     <yNydnVrnzd1sDlPVnZ2dnUVZ8j2dnZ2d@pipex.net> <18216228-3c5a-4cf2-ac38-
ea577aff8f6d@a70g2000hsh.googlegroups.com>
     <48cea46f$1_4@mk-nntp-2.news.uk.tiscali.com>
<Xns9B1AC2F4DC19E2MDWN@194.177.96.78>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1221589956 5379 127.0.0.1 (16 Sep 2008 18:32:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 16 Sep 2008 18:32:36 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m44g2000hsc.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     FunWebProducts; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:690

On Sep 15, 8:09=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> Ugh! =A0It's very similar to a power supply I worked on in the
> mid-1970's for a tacan pulse power calibration system. =A0The
> scars had almost healed. =A0There's not much advantage in it
> over a vintage blood and thunder supply beyond improved
> regulation. =A0No reduction in the amount of steel or output
> capacitance needed... lots of stored energy.
>
> Though I did learn a lot about PUT's and SCR's in the process
> so overall it was fun. It's also when I learned that power
> supply engineers always run Towards the explosion. =A0
>
> steve H
>
>
>
> >http://www.realhamradio.com/hvreg.pdf
>
> > for a schematic.- Hide quoted text -
>
> - Show quoted text -

I dont suppose there is an SMPS pwer supply design book for dummies
ou t there somwhere.
Seriously what would be a good book for transformer design. I
downloaded the info ferroxcube had. I was hoping they had someready
made transformers. I know they have made some for the military/gov,
but I didnt see anything off the shelf available except their cores.


Jimmie.



From 7143530115277741203
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc01.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com>
<Q_cyk.60$N5.12@nwrddc01.gnilink.net> <93127bb1-7f9e-4810-
bf5c-6ac6f564141e@b1g2000hsg.googlegroups.com>
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<qMgzk.34534$vX2.2733@bignews6.bellsouth.net>
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<A%Bzk.176$Jw.134@nwrddc02.gnilink.net>
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<fkeuc4l9or52ivdhcqjljqd4nrd398vain@4ax.com>
Subject: Re: CW is a hobby (off topic BWTH)
Lines: 14
MIME-Version: 1.0
Content-Type: text/plain;
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Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <x0Tzk.272$MN3.53@nwrddc01.gnilink.net>
Date: Tue, 16 Sep 2008 18:36:13 GMT
NNTP-Posting-Host: 71.104.212.101
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc01.gnilink.net 1221590173 71.104.212.101 (Tue, 16 Sep 2008 14:36:13
EDT)
NNTP-Posting-Date: Tue, 16 Sep 2008 14:36:13 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:691
X-Original-Bytes: 1940


"AJ Lake" <nomail@fakeaddress.com> wrote in message
news:fkeuc4l9or52ivdhcqjljqd4nrd398vain@4ax.com...
> "JB" <nospam@goofball.net> wrote:
>
> >A remote base is different from an unattended repeater.
>
> An unattended anything in the 50s was illegal.
>
It isn't unattended if it has a control point.

All I know is that there was one in the late 50's.  I'm not a lawyer or an
FCC spokesman but I suspect the statute of limitations is well past.




From -1410760036640090680
X-Google-Thread: fc2a5,e9598abfba311c3b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!m3g2000hsc.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Pro-46 scanner mods
Date: Tue, 16 Sep 2008 17:04:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <04d9736e-ddf5-45ac-9781-eff2c6fa67bf@m3g2000hsc.googlegroups.com>
References: <bprid.3135acb@radiobanter.com>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1221609890 4895 127.0.0.1 (17 Sep 2008 00:04:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 17 Sep 2008 00:04:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m3g2000hsc.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:692

On Sep 14, 6:52=A0pm, bprid <bprid.3135...@radiobanter.com> wrote:
> I have recently bought a pro-46 scanner on ebay with the hope of doing
> some modifications to it. =A0One of the modifications i wanted to do was
> to restore the cellular frequency to it. =A0I did tons of searching and
> found a few sites that had instructions on how to do it but they were
> in text and were kind of vague. =A0I got as far as figuring out which
> resistors to remove but the problem is i dont know where to solder it
> back onto. =A0I tried a few different locations that i thought were
> correct but had no sucess. I dont want to just keep trying different
> places in fear of ruining the scanner. =A0If anyone has any knowledge of
> this topic and could help i would greatly appreciate it. =A0I can also
> provide pictures of the board showing what i have taken off and am
> hoping that maybe someone could take the picture and actually show me
> exactly where the resistor needs to go. =A0Any help would be appreciated.
> Thanks
>
> --
> bprid

Give me an email address that works

Jimmie




From 7805907011390880760
X-Google-Thread: fc2a5,1a70b767cd70bc46,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe03.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Self-excited Beam Deflection mixers??  Opinions???
Lines: 29
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <gVXzk.12264$rV4.5187@newsfe03.iad>
NNTP-Posting-Host: 72.192.52.79
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe03.iad 1221610188 72.192.52.79 (Wed, 17 Sep 2008 00:09:48 UTC)
NNTP-Posting-Date: Wed, 17 Sep 2008 00:09:48 UTC
Organization: Cox
Date: Tue, 16 Sep 2008 20:09:49 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:693
```

Still mulling over some RX design changes for a HBR receiver project that I am considering building. It is going to be an updated version of the HBR receiver projects that W6TC, Ted Crosby, penned for QST in the late 50s and early 60s.

I've decided to go with 6EH7 semi-remote pentodes for the RF and IF stages (overload resistant), meaning my filament current requirements are going out of sight.. 4.7 amps so far, so I want to cut back on the number of stages.

To cut my tube count and heater energy, I'm looking for opinions on using 6JH8s with self excited injection. The 2nd mixer requires 1515kc injection, and I'm considering using the 6JH8 as a self-excited crystal oscillator to eliminate using a separate oscillator stage. Original plan was either a 6BH6 oscillator, or 6U8 combined osc/buffer.

Second branstorm is to use a self-excited 6JH8 for the Product Detector and 85kc BFO, eliminating a separate tube and buffer stage that I had originally planned on using (another 6U8). Will osc. pulling be a problem? Any other drawbacks?

First mixer will be a 6ES8 Pullen, with a 6U8 used for the tunable LO and buffer isolation. AGC will be via a 12AU7 plate detector, 12AU7 infinite impedance AM detector, 12AX7 Q-multiplier, 12AU7 first AFA and S-meter amp, and a 6AK6 AFA. First IF is 1600kc using cascaded modified ARC-5 IF transformers. 2nd IF is 85kc, using cascaded R-23 command RX IFTs.

Pete

From -3454871915418448702
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Wed, 17 Sep 2008 02:15:21 +0200 (CEST)
Organization: Mostly In Piles
Lines: 64
Message-ID: <Xns9B1BC3E20812MDWN@194.177.96.78>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
<91d34a93-1f80-4795-a0fd-67c4be7c6790@l42g2000hsc.googlegroups.com>
<2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com> <ca9b70ed-a605-48d1-a879-e3b969422238@s50g2000hsb.googlegroups.com>
<Xns9B1764CBF94AE2MDWN@194.177.96.78> <443b04c6-c18f-43b2-b709-871b0aae3cbb@k37g2000hsf.googlegroups.com>
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<864a548a-00dd-433a-95a5-3bde58880214@34g2000hsh.googlegroups.com> <68d71c04-

d7f5-4708-a719-624679f150b6@25g2000hsx.googlegroups.com>
<yNydnVrnzd1sDlPVnZ2dnUVZ8j2dnZ2d@pipex.net> <18216228-3c5a-4cf2-ac38-ea577aff8f6d@a70g2000hsh.googlegroups.com> <48cea46f$1_4@mk-nntp-2.news.uk.tiscali.com> <Xns9B1AC2F4DC19E2MDWN@194.177.96.78>
<5b80758c-9cd7-4421-8ebf-8be8e4152e2e@m44g2000hsc.googlegroups.com>
NNTP-Posting-Host: +9MCJWvf4bep0JkcjcyBXw.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news1.google.com rec.radio.amateur.homebrew:694

Howdy,

It's a tough choice, most of the books in the subject have at least a couple of strong points or useful tricks.

If I could have only one book and it had to cover all aspects of SMPS design I'd chose "Switching Power Supply Design" by Abraham L. Pressman.

There are many individual books devoted to topology convolution, wound magnetics design, control systems engineering and the care and feeding of semiconductor switches. So no one book covers evey aspect thoughoughly but Abe's book is pretty good.

He also wrote "Switching And Linear Power Supply Design, power Converter Design", which was his first book. Worth having for sometimes you might need a big linear supply.

"Switchmode Power Supply Handbook" by Keith Billings contains many practical tips.

For magetics "Transformer And Inductor Design Handbook" by Colonel Wm. T. McLyman is good. Another good book is Magnetics Engineering Fundamentals and Computer Aided Design" by Fred M. Lillenstein.

"Transformers for Electronic Circuits" by Nathan Grossner is good too, especially for heavy metal. There is a copy of it online at some tube audio site but I can't find the link off hand.

Also check the free software and app notes at Magnetics Inc. And at Micrometals Inc. too.

Some decent vendors of needed odds and ends are Pleo, lodestone pacific, Robison Ind.,Dexter, MH&W. CWS Coil Winding Services is worth checking out too.

For built transformers you'll mostly find low voltage and telecom stuff off the shelf. Can't recall seeing any high power (more than a couple of hundred watts) high voltage transformers off the shelf. Even low power HV stuff is rare unless you count the measly few hundreds of volts for EL and neon lighting.

I really think this is a roll your own kind of affair. Furukawa
TEX-E triple insulated wire might be handy without a segmented
secondary bobbin.

I hope you find some of this useful. There are a LOT of books on
these subjects. Enough to cause my house to sag under the weight.

> I dont suppose there is an SMPS pwer supply design book for dummies
> ou t there somwhere.
> Seriously what would be a good book for transformer design. I
> downloaded the info ferroxcube had. I was hoping they had someready
> made transformers. I know they have made some for the military/gov,
> but I didnt see anything off the shelf available except their cores.
>
>
> Jimmie.
>

From 7349951192128355788
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x35g2000hsb.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Wed, 17 Sep 2008 03:34:15 -0700 (PDT)
Organization: http://groups.google.com
Lines: 75
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NNTP-Posting-Date: Wed, 17 Sep 2008 10:34:16 +0000 (UTC)
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     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:695

On Sep 16, 8:15=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> Howdy,
>
> It's a tough choice, most of the books in the subject have at
> least a couple of strong points or useful tricks.
>
> If I could have only one book and it had to cover all aspects of
> SMPS design I'd chose "Switching Power Supply Design" by Abraham
> L. Pressman. =A0
>
> There are many individual books devoted to topology convolution,
> wound magnetics design, control systems engineering and the care and
> feeding of semiconductor switches. =A0So no one book covers evey
> aspect thoughoughly but Abe's book is pretty good. =A0
>
> He also wrote "Switching And Linear Power Supply Design, power
> Converter Design", which was his first book. =A0Worth having for
> sometimes you might need a big linear supply.
>
> "Switchmode Power Supply Handbook" by Keith Billings contains many
> practical tips.
>
> For magetics "Transformer And Inductor Design Handbook" by Colonel Wm.
> T. McLyman is good. =A0Another good book is Magnetics Engineering
> Fundamentals and Computer Aided Design" by Fred M. Lillenstein.
>
> "Transformers for Electronic Circuits" by Nathan Grossner is good
> too, especially for heavy metal. =A0There is a copy of it online
> at some tube audio site but I can't find the link off hand.
>
> Also check the free software and app notes at Magnetics Inc.
> And at Micrometals Inc. too. =A0
>
> Some decent vendors of needed odds and ends are Pleo, lodestone
> pacific, Robison Ind.,Dexter, MH&W. CWS =A0Coil Winding Services
> is worth checking out too.
>
> For built transformers you'll mostly find low voltage and
> telecom stuff off the shelf. =A0Can't recall seeing any high
> power (more than a couple of hundred watts) high voltage
```

> transformers off the shelf. =A0Even low power HV stuff is rare
> unless you count the measly few hundreds of volts for EL
> and neon lighting.
>
> I really think this is a roll your own kind of affair. Furukawa
> TEX-E triple insulated wire might be handy without a segmented
> secondary bobbin.
>
> I hope you find some of this useful. =A0There are a LOT of books on
> these subjects. =A0Enough to cause my house to sag under the weight.
>
>
>
> > I dont suppose there is an SMPS pwer supply design book for dummies
> > ou t there somwhere.
> > Seriously what would be a good book for transformer design. I
> > downloaded the info ferroxcube had. I was hoping they had someready
> > made transformers. I know they have made some for the military/gov,
> > but I didnt see anything off the shelf available except their cores.
>
> > Jimmie.- Hide quoted text -
>
> - Show quoted text -

My big problem at the moment is designinging a transformer. after much
reading in the last couple of days I am begining to think it is not
the big deal I thought it was. Since I am not trying to build 50k
units I dont have to use the cheapest thing I can get by with and can
overdesign a bit. I can see that just a few cores may take care of all
of my needs. Oh well its back to work so it will be a few days before
i get to piddle with this anymore. One of my jobs this week is to go
through all the old UPSs we have in the store room and find out which
ones are good and chunk the rest.

Jimmie

From 7724863366269629486
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
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t54g2000hsg.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Wed, 17 Sep 2008 09:02:14 -0700 (PDT)
Organization: http://groups.google.com
Lines: 70
Message-ID: <3882e618-c6b5-447f-b609-e57040e5e8f7@t54g2000hsg.googlegroups.com>
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     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:696

On Sep 8, 7:51=A0pm, Lawrence Statton <yankeeinex...@gmail.com> wrote:
> AJ Lake <nom...@fakeaddress.com> writes:
> > > You need to understand that the FCC really doesn't want to be
> > >bothered with Ham Radio at all.
>
> > I think that the ARRL had more to do with the snafu's of that era. For
> > example incentive licensing.
>
> So, I'm a young whippersnapper (42 y/o ... got my Tech+ ticket in
> 1988): =A0Can someone, without adding TOO much editorial slant, explain
> what the 1970s push to incentive licensing was, and with as little
> slant as possible explain why it was a SNAFU (or as one 1x2 in the
> first club I was in said: =A0Ruined the service).
>
> --XE2/N1GAK

Here's a history in three parts. It was written in 1999 and so doesn't
cover the 2000 restructuring, but you'll find a lot of background in
there.

Part 1:

http://groups.google.com/group/rec.radio.amateur.policy/msg/5e237c8d619c6a9=
0?hl=3Den&dmode=3Dsource

or:

http://tinyurl.com/6o8bzf


Part 2:

http://groups.google.com/group/rec.radio.amateur.policy/msg/932c3e0a55b5cfd=
a?hl=3Den&dmode=3Dsource

or:

http://tinyurl.com/6lupxx
```

Part 3:

http://groups.google.com/group/rec.radio.amateur.policy/msg/711fd670748942f=
f?hl=3Den&dmode=3Dsource

or:

http://tinyurl.com/6dosbw

A couple of points:

1) "Incentive licensing" came into being in the 1960s
2) It wasn't a new thing, but rather a return to the way things used to be before 1953. Except it was a lot more complicated.
3) ARRL had a big role but wasn't the only one involved. There were at least 10 other proposals given RM numbers by FCC, over 6000 comments at a time before ECFS and the internet, and the result went into effect in 1968.
4) The Tech had a code test until 1991.
5) The ARRL did not want the VE system. FCC pushed it on us to save money.

73 de Jim, N2EY

From -7868098671249341880
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Path: g2news2.google.com!postnews.google.com!c65g2000hsa.googlegroups.com!not-for-mail
From: spamhog <n1jpr@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: out-of-phase sides in a push-pull switchmode RF amp
Date: Wed, 17 Sep 2008 09:11:11 -0700 (PDT)
Organization: http://groups.google.com
Lines: 54
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X-HTTP-UserAgent: Opera/9.51 (Windows NT 5.1; U; en),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3148

I built a Class D push-pull CW HF TX with 74HC240s providing oscillation, buffering, an extra inverter on one side, and two stages of current amplification, eventually driving a pair of IRF530 MOSFETs..

It looks like I struck a good balance even if there was a phase offset.

This is what happened.

I turned ann inversting 8-section driver 74HC240 from a single-ended oscillator->buffer->4Xamp (N7KSB style), into this push-pull monster:

```
                          | -inverter-2Xamp-16Xamp-...
VXO-buffer-buffer-|
                          |-------------2Xamp-16Xamp-...
```

From VXO to the 2+2 sections in push-pull current amplifier, all fits into one 74HC240, fed at 5Vdc. Then, in a 8X equivalent fanout, I put 2 x 74HC240 on each side, fed at 8Vdc. 16 sections of current amplification per side provide A LOT of current, already delivered over 1W RF, and proved more than sufficient for driving a pair of IRF530's in push pull with individually trimmed positive DC bias, probably with room for further expansion.

The interesting fact is that there is one extra inverting section on one side only. On that side the signal should have been delayed by 20-30ns, the propagation time for one section. At 10MHz this should equal 70-110 degrees. In theory this should mean that both push-pull sides should spend 110 degrees in high status (MOSFETs conducting), and 110 degrees not conducting, leaving only 140 degrees for honest-to-G_d pushpullery. :-(

Woe betide such a push-pull... BUT... with my scope having one channel KO, I can't juxtapose the events - I can only combine the results in the output transformer.

The result seems like a pretty symmetric waveform, with steep voltage peaks on both sides (output balun primary still not tuned). Once filtered into a sinusoid, I see about 60W DC going in and about 45-50W RF coming out, with negligible second harmonic.

Is this normal? What did I get wrong? (I.e. got right, but just by chance). Would I be wasting my time if I sought more push-pull symmety by means of an unbal transformer? I mean somethign like this:

```
                       |-buffer-2Xamp-...
VXO-buffer-unbal
                       |-buffer-2Xamp-...
```

Any wisdom welcome!

[OK, I am going to have the scope's 2nd channel fixed anyway... :-)]

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From: "Rich Klestinez" <replytogroup@noplace.cc>
Newsgroups: rec.radio.amateur.homebrew
References: <722a1a37-0b4b-461a-b3fa-771fd8b741e7@c65g2000hsa.googlegroups.com>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:698

"spamhog" <n1jpr@hotmail.com> wrote in message
news:722a1a37-0b4b-461a-b3fa-771fd8b741e7@c65g2000hsa.googlegroups.com...
>
> I built a Class D push-pull CW HF TX with 74HC240s providing
> oscillation, buffering, an extra inverter on one side, and two stages
> of current amplification, eventually driving a pair of IRF530
> MOSFETs..
>
> It looks like I struck a good balance even if there was a phase
> offset.
>
> This is what happened.
>
> I turned ann inversting 8-section driver 74HC240 from a single-ended
> oscillator->buffer->4Xamp (N7KSB style), into this push-pull monster:

>
> ```
>                         | -inverter-2Xamp-16Xamp-...
> VXO-buffer-buffer-|
>                         |-------------2Xamp-16Xamp-...
> ```
>
> From VXO to the 2+2 sections in push-pull current amplifier, all fits into one 74HC240, fed at 5Vdc. Then, in a 8X equivalent fanout, I put 2 x 74HC240 on each side, fed at 8Vdc. 16 sections of current amplification per side provide A LOT of current, already delivered over 1W RF, and proved more than sufficient for driving a pair of IRF530's in push pull with individually trimmed positive DC bias, probably with room for further expansion.
>
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>
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>
> Is this normal? What did I get wrong? (I.e. got right, but just by chance). Would I be wasting my time if I sought more push-pull symmety by means of an unbal transformer? I mean somethign like this:
>
> ```
>                       |-buffer-2Xamp-...
> VXO-buffer-unbal
>                       |-buffer-2Xamp-...
> ```
>
> Any wisdom welcome!
>
> [OK, I am going to have the scope's 2nd channel fixed anyway... :-)]

Well, if the second harmonic is really low then you must have a good square wave. On the output side you could determine the phase relationships by looking at the symmetry of the square wave. Adjust the phase with an rc network on the input of one of the parallel shortest delay stacks of 74hc's. I have paralled several 74xx series of chips together before and found that the propagation delays were within the spec's but varied a lot within those specs. After you tune your primary you should get a really good sine wave out of the amp. I would not go through the trouble of unbalancing the transformer as this could result in some unusual spikes on the output due to saturation of the core, or cross conduction of the Fets due to di/dvt issues. One other thing comes to mind is that with a torrid core at high current and a high frequency, then symmetry of the winding itself is critical. The spacing of the winding should fill the whole core and be spaced as uniform as you can make them. Having said that, then, match 2 IRF530's for rds on. (A few tenths of an ohm really makes a big difference when you are throwing around a bunch of amps.) This will go a long ways in preventing what looks like an unbalanced output transformer at 10 Mhz.

Sounds like your on the right track. Just a little bit of tweaking to go to get there.

Rich
In Texas

From -7027396628079053492
X-Google-Thread: fc2a5,41e06d7cfd145418
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From: spamhog <n1jpr@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: out-of-phase sides in a push-pull switchmode RF amp
Date: Wed, 17 Sep 2008 14:29:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 44
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Xref: g2news1.google.com rec.radio.amateur.homebrew:699

Thanks Rich!

On Sep 17, 4:55=A0pm, "Rich Klestinez" <replytogr...@noplace.cc> wrote:
>> I would not go through the trouble of unbalancing the transformer

I didn't mean to... The idea was to generate two symmetrical and opposed signals by putting an un-bal transformer between the VXO and a first push-pull stage made with just two sections, charged with rebuilding near-square waveforms.

I matched neither driver sections nor MOSFETs,but I did hear that both can be a bit variable. Apparently the chip drivers are normally used without equalization (to the surprise of quite a few authours). As for MOSFETs, I saw several amp designs with a single separate bias trimmer, or with a single special driver chip, for several devices. I have separate trimmers, I didn't bother to check if the 1-mA voltage was the same for both - but I will. That may have helped equalize the switching point in terms of RF voltage. As for the different on-state resistance, I guess it's more critical if one has devices in parallel - in a push-pull a particularly low resistance device won't hog the current.

>> One other thing comes to mind is that with a torrid core at high current=
 and a high frequency, then symmetry of the winding itself is critical.

Yes, I've been extremely careful. Winding is trifilar, twisted, I took care to have symmetrical twist pitch and winding spacing.

>> torrid core

Torrid indeed. Now I have a tiny .82 core and thin wire too. At normal duty cycle all is fine, after 120s keydown one risks minor burns - but the MOSFETs barely get warm.

Coincidentally, I just got several 10s of feet of Raychem "high performance" wire after helping assemble a prototype 4-fuel car (3 liquid fuels + plugin recharger). 1.5sqmm, silver plated stranded copper alloy, thin 600V radiation-crosslinked high temperature insulator. I've been verbally told the 1/2sqmm variety can carry 30A (I asked as I worried it would not bear 3.5). I will try it on a larger core. I already recovered the ferrite of a 1-kW Hi Gain balun, but I want to see detailed wire specs first. Once stripped, this wire should do well in hi-Q coils too.

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Newsgroups: rec.radio.amateur.homebrew
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Subject: Re: CW is a hobby (off topic BWTH)

Lines: 71
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charset="iso-8859-1"
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <kLeAk.428$8v5.407@trnddc01>
Date: Wed, 17 Sep 2008 21:36:16 GMT
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NNTP-Posting-Date: Wed, 17 Sep 2008 17:36:16 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3151
X-Original-Bytes: 3128

Thanks. I thot no-code was prior to 89 but maybe not. The debate goes way back.
<N2EY@aol.com> wrote in message
news:3882e618-c6b5-447f-b609-e57040e5e8f7@t54g2000hsg.googlegroups.com...
On Sep 8, 7:51 pm, Lawrence Statton <yankeeinex...@gmail.com> wrote:
> AJ Lake <nom...@fakeaddress.com> writes:
> > > You need to understand that the FCC really doesn't want to be
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> 1988): Can someone, without adding TOO much editorial slant, explain
> what the 1970s push to incentive licensing was, and with as little
> slant as possible explain why it was a SNAFU (or as one 1x2 in the
> first club I was in said: Ruined the service).
>
> --XE2/N1GAK

Here's a history in three parts. It was written in 1999 and so doesn't cover the 2000 restructuring, but you'll find a lot of background in there.

Part 1:

http://groups.google.com/group/rec.radio.amateur.policy/msg/5e237c8d619c6a90?hl=en&dmode=source

or:

http://tinyurl.com/6o8bzf

Part 2:

http://groups.google.com/group/rec.radio.amateur.policy/msg/932c3e0a55b5cfda?hl=en&dmode=source

or:

http://tinyurl.com/6lupxx

Part 3:

http://groups.google.com/group/rec.radio.amateur.policy/msg/711fd670748942ff?hl=en&dmode=source

or:

http://tinyurl.com/6dosbw

A couple of points:

1) "Incentive licensing" came into being in the 1960s
2) It wasn't a new thing, but rather a return to the way things used to be before 1953. Except it was a lot more complicated.
3) ARRL had a big role but wasn't the only one involved. There were at least 10 other proposals given RM numbers by FCC, over 6000 comments at a time before ECFS and the internet, and the result went into effect in 1968.
4) The Tech had a code test until 1991.
5) The ARRL did not want the VE system. FCC pushed it on us to save money.

73 de Jim, N2EY

From -7293613521109342475
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!t54g2000hsg.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Wed, 17 Sep 2008 15:19:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13

Message-ID: <87787fac-2c5a-483d-984a-a7f7fbb04d14@t54g2000hsg.googlegroups.com>
References: <956f3fee-69e8-4782-bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
<ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
<GvmdnTUQnMjWOlrVnZ2dnUVZ_tHinZ2d@bright.net>
<79tfc4t34neqfval29spuuaecdfr8sj6gd@4ax.com> <yOVxk.799$Dj1.115@trnddc02>
<itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com>
<Q_cyk.60$N5.12@nwrddc01.gnilink.net>
<93127bb1-7f9e-4810-bf5c-6ac6f564141e@b1g2000hsg.googlegroups.com>
<g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
<qMgzk.34534$vX2.2733@bignews6.bellsouth.net>
<1igrc41dls8pj2jrejt44dpq4h4qdi0o6r@4ax.com>
<ct2dnf5o_rodb1DVnZ2dnUVZ_qXinZ2d@posted.cpinternet>
NNTP-Posting-Host: 207.101.100.154
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1221689991 4717 127.0.0.1 (17 Sep 2008 22:19:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 17 Sep 2008 22:19:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t54g2000hsg.googlegroups.com; posting-host=207.101.100.154;
posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3152

On Sep 15, 1:34=A0am, msg <msg@_cybertheque.org_> wrote:

> BTW, if anyone knows, I'd appreciate knowing what the grace period after
> expiration was in 1975 (I was told by a field-office rep that my expired
> Advanced couldn't be renewed and later I was told that I was probably
> misinformed and was within a grace period, but I could never confirm that
> fact).

In 1975 the grace period was 1 year. License terms back then were 5
years.

73 de Jim, N2EY

From 732003843909491597
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!p25g2000hsf.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Wed, 17 Sep 2008 15:33:56 -0700 (PDT)
Organization: http://groups.google.com

```
Lines: 75
Message-ID: <6bc7995e-2385-450e-9492-a210ed34ac4a@p25g2000hsf.googlegroups.com>
References: <956f3fee-69e8-4782-bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
     <ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
<GvmdnTUQnMjWOlrVnZ2dnUVZ_tHinZ2d@bright.net>
     <79tfc4t34neqfval29spuuaecdfr8sj6gd@4ax.com> <yOVxk.799$Dj1.115@trnddc02>
     <itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com>
<Q_cyk.60$N5.12@nwrddc01.gnilink.net>
     <93127bb1-7f9e-4810-bf5c-6ac6f564141e@b1g2000hsg.googlegroups.com>
     <g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
<qMgzk.34534$vX2.2733@bignews6.bellsouth.net>
     <1igrc41dls8pj2jrejt44dpq4h4qdi0o6r@4ax.com>
NNTP-Posting-Host: 207.101.100.154
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1221690837 7458 127.0.0.1 (17 Sep 2008 22:33:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 17 Sep 2008 22:33:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p25g2000hsf.googlegroups.com; posting-host=207.101.100.154;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:702
```

On Sep 14, 10:45=A0pm, AJ Lake <nom...@fakeaddress.com> wrote:
> ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
> >The LACK of incentive plus the 20wpm code was the reason so few upgraded
> > to the extra class,
>
> Correct. Before Incentive Licensing there was not much incentive to go ab=
ove
> General since there were no additional privileges. Those who did upgrade =
to
> Extra did it for the accomplishment.

Actually, the period when Generals-and-above had all privileges was
less than 16 years (Feb 1953 to Nov 1968). Before Feb 1953, you needed
an Advanced or Extra to use 'phone on the ham bands between 2.5 and 25
MHz.

> And since it was a real (no answers supplied) exam before an official FCC
> examiner it did show accomplishment. Hams of the day often listed it on
> employment applications alongside their commercial licenses.

Also applications for college.

> >Actually the extra cw segments were the most prized,
>
> Only if you are a CW DXer. And even before the change, by gentlemans
> agreement the bottom of the CW band was left for DXers and casual CW

> operation was higher, pretty much like now.

> >so the cw requirement made sense
>
> IMO the only justification for the code test (at that time) was for possi=
ble
> emergency use. As an example a ship in distress, since many ships were st=
ill
> using CW at the time. But other than that making a ham take a special cod=
e
> test made about as much sense as making him take a special soldering test=
.
> That was finally recognized recently... =A0

There were three reasons for it back then:

The first reason was the ITU treaty, which required Morse Code testing.

The second reason was that the FCC considered Morse Code skill to be part of what it meant to be a qualified radio amateur, particularly one that had full HF privileges. That view has changed since the 1970s but it was a big thing to them in those days.

The third reason was that before the 1980s amateur radio was quite different in terms of equipment and mode/band choices. There were no WARC bands (30, 17 and 12 meters) before 1979, and 160 was full of LORAN and hams only had limited use of it. The only data mode was RTTY, done with big heavy electromechanical teletype machines. SSTV existed but required special equipment. So most hams on HF used either Morse Code, SSB or AM. SSB and AM use a lot more spectrum than Morse Code so the total carrying capacity of the HF ham bands would be much less if everybody used voice.

> >As far as techs are concerned... Well I knew quite a few techs who were
> >very much into home brew radios. =A0
>
> As it should be. The Tech license was supposed to be for technical use, n=
ot
> just another operators license. But of course that was a laugh. Most Tech=
s
> bought their equipment and set up shop on the nearest local repeater...

That depends on what era you're talking about. The Technician was created as part of the 1951 restructuring, and originally did not include 6 or 2 meters. Repeaters did not become common in ham radio until the 1970s.

73 de Jim, N2EY

From 6716740330417733524
X-Google-Thread: fc2a5,4a61f236ebeceacf

X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!k13g2000hse.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Wed, 17 Sep 2008 15:41:00 -0700 (PDT)
Organization: http://groups.google.com
Lines: 50
Message-ID: <f06c216b-15fc-4972-b8ee-ebac85d10c38@k13g2000hse.googlegroups.com>
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<878wu2urfu.fsf@hummer.cluon.com>
     <956f3fee-69e8-4782-bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
     <ia6dnVE3dr9G-1rVnZ2dnUVZ_vOdnZ2d@giganews.com>
<GvmdnTUQnMjWOlrVnZ2dnUVZ_tHinZ2d@bright.net>
     <79tfc4t34neqfval29spuuaecdfr8sj6gd@4ax.com> <yOVxk.799$Dj1.115@trnddc02>
     <itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com>
<Q_cyk.60$N5.12@nwrddc01.gnilink.net>
     <93127bb1-7f9e-4810-bf5c-6ac6f564141e@b1g2000hsg.googlegroups.com>
     <g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
NNTP-Posting-Host: 207.101.100.154
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1221691261 8877 127.0.0.1 (17 Sep 2008 22:41:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 17 Sep 2008 22:41:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k13g2000hse.googlegroups.com; posting-host=207.101.100.154;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3154

On Sep 13, 7:56=A0pm, AJ Lake <nom...@fakeaddress.com> wrote:

> My moaning was because of the *unfairness* of the incentive licensing
> frequency changes. I passed an examination for General and I expected to =
be
> able to use those General frequencies. Then they took away half the Gener=
al
> frequencies. Even these many years later (even after having regained thos=
e
> lost frequencies) I think it was an unfair change.

They took away half of the General *phone* frequencies on 75, 40, 20
and 15 meters. And 25 kHz of the 80, 40, 20 and 15 meter CW/data
frequencies.

I remember the moaning back then. Basically it came down to the idea
that many hams felt they'd earned the right to full privileges forever

by passing the General test, and shouldn't be required to pass any
more tests.

btw, I earned my Advanced in the summer of 1968 and had full
privileges for a few weeks until the rules changed in November 1968.

> Some may moan that the FCC now gives advanced licenses with no code test =
and
> modern hams don't have to work as hard for the license as hams in years
> past. Which is true. And some may moan that people can now get an advance=
d
> ham license by memorization without knowing the advanced electronics
> pretended in the testing. Which is true. But not me because it takes noth=
ing
> away from privileges already earned.

The problem is that changes in the requirements change the nature of
the ARS. Not right away, but over a long time.

> I have an idea (analogy). How about we institute an Extra Plus license.
> Forget the code test because it's obsolete.

But hams still use Morse Code...

> But to make sure that the
> applicant is really qualified he must pass a *real* electronics/digital
> test, one that can't be passed by memorization. No answer sheets. At the =
FCC
> office like in the old days.

Won't happen because FCC won't take on that job again.

73 de Jim, N2EY

From 1059018599062296490
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!26g2000hsk.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Wed, 17 Sep 2008 15:49:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 40
Message-ID: <68ad1fc3-0a85-4212-a6b6-b9a3b8e2fb2c@26g2000hsk.googlegroups.com>
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<878wu2urfu.fsf@hummer.cluon.com>
     <956f3fee-69e8-4782-bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
     <0scdc4582ltglcqt8vnp5r1an55h71nnr3@4ax.com>
NNTP-Posting-Host: 207.101.100.154

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Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 17 Sep 2008 22:49:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 26g2000hsk.googlegroups.com; posting-host=207.101.100.154;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:704
```

On Sep 9, 1:52=A0pm, AJ Lake <nom...@fakeaddress.com> wrote:

> Tim Shoppa <sho...@trailing-edge.com> wrote:
> >The controversy in the 70's was the Technician license, a ticket that
> >required no code,

The Technician required 5 wpm from its creation in 1951 until 1991.

>
> Interestingly in the 50s the Technician (and Novice) was given
> by mail. And any ham friend could give you the code test.
> Anyone else could proctor your exam and certify that you
> were honest. However I'm sure it won't surprise you to learn
> that there were many Techs who never took a code
> test and had open book exams.

From 1951 until about 1953 or 54 the Novice and Tech were given at FCC offices unless you lived beyond a certain distance from an FCC exam point.

But the new licenses made so much work for FCC that they changed the rules and made both those licenses "by mail".

There was also the by-mail equivalent of the General license, called the Conditional. In the mid-1970s it was merged with the General.

I remember that when it was announced that the Conditional was being phased out, there was a false rumor that FCC would require all Conditionals to retest. You should have heard the cries of anguish! I found that puzzling because the tests weren't *that* hard. Now I have a little better understanding...

> I always wondered why if the Tech was an experimenters
> license as the FCC claimed it was, why they required a code
> test.

Because the international treaty required it. Over time that changed, but in the 1950s any license that allowed a ham to use the bands below 1 GHz required a code test.

73 de Jim, N2EY

```
From 7862715516466249237
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
m3g2000hsc.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Wed, 17 Sep 2008 16:19:17 -0700 (PDT)
Organization: http://groups.google.com
Lines: 221
Message-ID: <e20ad068-842b-436f-a2b5-cbf0cb99cb42@m3g2000hsc.googlegroups.com>
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<878wu2urfu.fsf@hummer.cluon.com>
     <vDlxk.734$Dj1.531@trnddc02>
NNTP-Posting-Host: 207.101.100.154
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1221693557 16299 127.0.0.1 (17 Sep 2008 23:19:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 17 Sep 2008 23:19:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m3g2000hsc.googlegroups.com; posting-host=207.101.100.154;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:705

On Sep 8, 10:58=A0pm, "JB" <nos...@goofball.net> wrote:
> "Lawrence Statton" <yankeeinex...@gmail.com> wrote in message
> news:878wu2urfu.fsf@hummer.cluon.com...
>
> > AJ Lake <nom...@fakeaddress.com> writes:
> > > > You need to understand that the FCC really doesn't want to be
> > > >bothered with Ham Radio at all.

Not any more. But in the past it was very different.

> > > I think that the ARRL had more to do with the snafu's of that era. Fo=
r
> > > example incentive licensing.

Which was not really an ARRL idea - nor a new one in the 1960s.

> I am not sure what the ARRL had to do with events previous to 73 and some=
 of
> the chronology from memory.
```

>
> The 11 meter ham band was taken away to make the Citizens Band in 58? =A0=
 It
> didn't turn out anything like the FCC expected.

Yup. Actually FCC had created UHF cb where FRS/GMRS is now a decade
earlier, but 1950s technology was such that a good UHF radio was big,
heavy and expensive. So they reallocated 11 meters (which wasn't a ham
band by treaty) because decent sets would be a lot cheaper to make.
FCC never imagined that so many people would just ignore the rules.

>=A0Previously there were fewer
> ham license classes and everyone was on the same page. Also privileges we=
re
> taken away from the highest class to make a higher ones. =A0Ticked off a =
lot
> of Hams to lose.

Before 1951 there were three license classes, A, B and C. The 1951
restructuring renamed them to Advanced, General and Conditional, and
added the Novice, Technician, and Extra. That 1951 restructuring was
not an ARRL idea, btw.

> The Technician License split ham radio into two factions by offering a
> license class that had little incentive to upgrade and actually made it m=
uch
> more difficult to, by limiting the opportunities for on-the-air training.
> People who took the Novice ticket were upgraded to General in less than 2
> years or never got around to get on the air and let it lapse.

There were always lots of factions. There were the 'phone folks and
the CW bunch, the traffic handlers and the DXers, the homebrewers, kit
builders and factory-made groups, the mobileers, the VHF/UHFers, the
ragchewers, etc. Few of the divisions you see today are new.

>=A0Hams (in my
> area anyway) were expected to build something as a right of passage.
> Building a code practice oscillator would get you a pat on the back from
> everyone and you were in with the simplest project there was. =A0I built =
that
> and the power supplies for my mil surplus rigs. =A0Some guys built a whol=
e
> Novice station.

Some folks still do. Google my call, for example...

>=A0Techs at that time were expected to retune or modify a rig
> or some project as well but would go straight to CB like intercom operati=
ons
> not conducive to learning the HF skills for upgrade.

I think the real problem was that there wasn't much casual CW
operation on VHF, and many low-cost VHF rigs wouldn't even do CW.

>=A0In my day we were
> aware of a difference but we were all brother hams then. =A0I had Elmers =
that
> were Techs and beyond. =A0Most all were technically inclined enough to ha=
ve
> built something. =A0People were generally civilized and knew that we were=
 all
> on the same team. =A0If there was irritation between individuals, and the=
re
> were oddballs, it was downplayed for the good of amateur radio, because i=
t
> was a small world and people were listening. =A0And you would run into ea=
ch
> other again and again, so no sense carrying a grudge.

Agreed! There were other forces at work, too. For one thing, equipment
was expensive compared to today and you needed to know something just
to tune it up and get on the air. For another, getting a license
required that you invest some time and effort into learning code and
theory.

The FCC was also a respected and almost feared entity before the cb
boom. Hams knew FCC was listening, and would find them if they
misbehaved.

> In the late 70's there was a push by ARRL to get CBers interested, and ov=
er
> the counter 2 meter radios were first becoming available.

I don't recall that at all. ARRL pushed repeaters and FM because they
were new technology, for hams anyway, and were already popular with
hams in some parts of the country.

> ARRL didn't seem to understand that CB was a different service with a
> different mindset and many were already set in their ways. =A0 They seeme=
d to
> be willing to get people to hang outside of RS stores and lure CBers unde=
r
> false pretenses about amateur radio in order to pump up the license roles
> and subscriptions to QST.

I don't recall that at all.

>=A0 Wayne Green was one of the ticked off ones and
> started 73 magazine to rag about the ARRL and QST.

Wayne Green was a lifelong gadfly. He's still around, btw. Says the
Apollo moon landings were faked, among other things.

>=A0ARRL also convinced the
> FCC (easily) to set up the volunteer examiner program.

Nope, not true. FCC did that in the early 1980s to reduce their
workload. Their funding wasn't keeping up with their costs and they
had to reduce costs somehow. ARRL had no choice.

>=A0Novice exams were
> already given by volunteer Extras.

Actually a General or Advanced could give Novice exams.

>=A0FCC wanted to lighten their work load
> since Ham testing and licensing was taking up most of a day at the field
> offices.

The office in Philly where I took my tests was busy three days a week
with exams.

> License renewals were then made easier and for longer. =A0ARRL liked it
> because the rolls didn't drop out so fast and FCC didn't have to bother a=
s
> often.

It was FCC's idea. Less administrative work.

> The volunteer examiner program gave seminars to get people licensed but
> because of the accellerated pace, =A0people got licensed before they got =
a
> chance to learn the realities of getting on the air and keeping a station=
 up
> and meeting the people. =A0Some people would find it not their cup of tea=
 and
> leave but their license was now good for 10 years pumping up the rolls.

Yup.

> The no-code Tech license 83? further divided amateurs and even further
> sidetracked Techs from upgrading.

1991, not 1983. Don't forget code waivers, created in 1990 as a favor
of then-president Bush to ham who was also a King.

>=A0Lead time for getting a ticket was
> shortened from the 2 to 6 months or so to learn the code to as little as =
6
> weeks, then 2 weeks as the process refined. =A0 It was notable that in th=
e
> 80s, there were many who learned the code anyway and upgraded but the who=
le
> thing by and large tended to split Ham Radio into those who upgraded and
> those who couldn't very well.and were often frustrated.

There were also folks who got into ham radio back then to use it as a
personal communications
system without all the headaches of cb. Sometimes whole families got

```
licensed and got HTs just to keep in touch. We had a lot of them in
the 80s and 90s. Cell phones killed that.

>=A0Many would tell
> themselves they just weren't interested and resented the others. =A0Way t=
oo
> sad. =A0I finally came to grips with the idea that they should do away wi=
th
> the Tech class license at all costs, even getting rid of code testing for
> the General to do it, just so we could mend the split. =A0 I was stunned =
when
> they dropped the code requirement for Extra though. =A0I really haven't k=
ept
> track of all the current structure since I got my Extra in 93.

The changes have been a little here and a little there. It was FCC,
not ARRL, who has pushed for reduced requirements since the late
1970s.

> In any case, the "incentive" licensing structure was anything but incenti=
ve.
> So much for good intentions.

Consider this, though:

In 1951 there were about 100,000 US hams.

By 1962 or so that number had grown to about 250,000.

But then the growth slowed to a trickle and by 1969 there were only a
few more than there were in 1962.

Some said the incentive licensing changes would kill off ham radio,
but instead the numbers grew all through the 1970s and 1980s and into
the 1990s. Not just Techs but Generals and above too.

btw, I got my Novice in 1967 (age 13), Advanced in 1968 (age 14) and
Extra in 1970 (age 16). I didn't think any of the tests were very
hard. Would have gotten the Extra sooner but in those days you needed
2 years experience as a General or Advanced just to try the Extra
test.

73 de Jim, N2EY


From 6236887374939899726
X-Google-Thread: fc2a5,1a70b767cd70bc46
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.16.185.16.MISMATCH!npeer02.iad.highwinds-media.com!news.highwinds-media.com!
feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe04.iad.POSTED!
```

7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <pigAk.10985$PK.5749@newsfe04.iad>
NNTP-Posting-Host: 72.192.52.79
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe04.iad 1221693717 72.192.52.79 (Wed, 17 Sep 2008 23:21:57 UTC)
NNTP-Posting-Date: Wed, 17 Sep 2008 23:21:57 UTC
Organization: Cox
Date: Wed, 17 Sep 2008 19:21:37 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:706

FWIW, I found some good material on this subject in the
March 1960 QST, pps 33 - 38.

Another question: I've been told that the 6JH8 works best
with 0 volts on the deflector electrodes. However, it was
common practice with the 7360 to use a voltage divider
between the plate and deflector to provide negative feedback
(improved linearity) while biasing and balancing the
deflection electrodes. I'm thinking of using the same scheme
on the 6JH8, except having the low end of the voltage
dividers going to a negative bias source. That would allow
setting the electrode voltages to 0 volts, or slightly negative
or positive--whatever works best--while still keeping the
advantages of having negative feedback from the plate.
Is this worth doing?

Pete

From 6237423912546034827
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
newsfeed0.kamp.net!newsfeed.kamp.net!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Thu, 18 Sep 2008 01:59:29 +0200 (CEST)
Organization: Mostly In Piles
Lines: 33

Message-ID: <Xns9B1CC132340012MDWN@194.177.96.78>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
<ca9b70ed-a605-48d1-a879-e3b969422238@s50g2000hsb.googlegroups.com>
<Xns9B1764CBF94AE2MDWN@194.177.96.78> <443b04c6-c18f-43b2-
b709-871b0aae3cbb@k37g2000hsf.googlegroups.com>
<Xns9B17D3EB150302MDWN@194.177.96.78> <e6f6b189-
dbe1-43a8-8307-9ad29d4ba560@m44g2000hsc.googlegroups.com>
<Xns9B19AC552493D2MDWN@194.177.96.78>
<864a548a-00dd-433a-95a5-3bde58880214@34g2000hsh.googlegroups.com> <68d71c04-
d7f5-4708-a719-624679f150b6@25g2000hsx.googlegroups.com>
<yNydnVrnzd1sDlPVnZ2dnUVZ8j2dnZ2d@pipex.net> <18216228-3c5a-4cf2-ac38-
ea577aff8f6d@a70g2000hsh.googlegroups.com> <48cea46f$1_4@mk-
nntp-2.news.uk.tiscali.com> <Xns9B1AC2F4DC19E2MDWN@194.177.96.78>
<5b80758c-9cd7-4421-8ebf-8be8e4152e2e@m44g2000hsc.googlegroups.com>
<Xns9B1BC3E20812MDWN@194.177.96.78> <15df1803-fd58-45cc-9d37-
c7fa86fdb81d@x35g2000hsb.googlegroups.com>
NNTP-Posting-Host: lq0wBtPb+vC4STnBN/OPrQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news1.google.com rec.radio.amateur.homebrew:707

Howdy,

I found the URL for Grossner's book online.
http://tinyurl.com/3z7mxv

It seems to me that using the inverter oven transformer
and IGBT with a flyback controller like UC3842 might work.

Just a straight enough, hard-switched, flyback with single
ended output. You'd "only" get 1.5-2KV out less output power
maybe one half to three quarters as much... but that's not bad.

Mmm! Old UPS's have lots of good parts in them, especially
the ones with big 60Hz transformers and big heatsinks. Chuck
them into the trunk of your automobile.

> My big problem at the moment is designinging a transformer. after much
> reading in the last couple of days I am begining to think it is not
> the big deal I thought it was. Since I am not trying to build 50k
> units I dont have to use the cheapest thing I can get by with and can
> overdesign a bit. I can see that just a few cores may take care of all
> of my needs. Oh well its back to work so it will be a few days before
> i get to piddle with this anymore. One of my jobs this week is to go
> through all the old UPSs we have in the store room and find out which
> ones are good and chunk the rest.
>
> Jimmie
>

```
From 2538143892276198286
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!news.k-dsl.de!
aioe.org!not-for-mail
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Wed, 17 Sep 2008 17:33:39 -0700
Organization: Aioe.org NNTP Server
Lines: 23
Message-ID: <8d63d4ds7fua0i8ebubv8ebckt4fu6f1mn@4ax.com>
References: <GvmdnTUQnMjWOlrVnZ2dnUVZ_tHinZ2d@bright.net>
<79tfc4t34neqfval29spuuaecdfr8sj6gd@4ax.com> <yOVxk.799$Dj1.115@trnddc02>
<itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com> <Q_cyk.60$N5.12@nwrddc01.gnilink.net>
<93127bb1-7f9e-4810-bf5c-6ac6f564141e@b1g2000hsg.googlegroups.com>
<g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
<qMgzk.34534$vX2.2733@bignews6.bellsouth.net>
<1igrc41dls8pj2jrejt44dpq4h4qdi0o6r@4ax.com> <6bc7995e-2385-450e-9492-
a210ed34ac4a@p25g2000hsf.googlegroups.com>
NNTP-Posting-Host: HujEZ7P3CHXmf3pqAe0VVA.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Agent 1.91/32.564
Xref: g2news2.google.com rec.radio.amateur.homebrew:3159
```

N2EY@aol.com wrote:

> the FCC considered Morse Code skill to be
> part of what it meant to be a qualified radio amateur...

Even if there was no treaty, the ham employees in the FCC didn't want no-code. The ARRL didn't want no-code. And the average (already) code tested ham didn't want no-code. It's not surprising therefore that as a political body the FCC just agreed with it's constituents.

> I remember the moaning back then. Basically it came down to the idea
> that many hams felt they'd earned the right to full privileges forever...

I think the moaning was over the basic unfairness of *removing* privileges already earned. Over the years there has been many unpopular (to some) license changes but virtually all (maybe all?) involved giving new applicants easier privileges, not taking away already earned privileges.

> btw, I earned my Advanced in the summer of 1968 and had full
> privileges for a few weeks until the rules changed in November 1968.

And you didn't moan at all?? Give me a break...

From -6923477585297554993
X-Google-Thread: fc2a5,1a70b767cd70bc46
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews8.bellsouth.net.POSTED!ef55a73e!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
In-Reply-To: <gVXzk.12264$rV4.5187@newsfe03.iad>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 40
Message-ID: <LZiAk.29033$IB6.9166@bignews8.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mabncmnekmdohbabdbdpiflmbcekedmfhojhikkbagflhcboebllhhioldglmjpnoinnhlnjeonpflnopl
klchnkpadbmeliikmecbmiheefhfdiiifpgghlmijcaappldcpcnlihjjnngmpcaaibdilgclgdhoj
NNTP-Posting-Date: Wed, 17 Sep 2008 22:24:43 EDT
Organization: BellSouth Internet Group
Date: Wed, 17 Sep 2008 22:26:51 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:3160

Tio Pedro wrote:
> Still mulling over some RX design changes for a HBR receiver project that I
> am considering building. It is going to be an updated version of the HBR
> receiver projects that W6TC, Ted Crosby, penned for QST in the late 50s and
> early 60s.
>
> I've decided to go with 6EH7 semi-remote pentodes for the RF and IF stages
> (overload resistant), meaning my filament current requirements are going out
> of sight.. 4.7 amps so far, so I want to cut back on the number of stages.
>
> To cut my tube count and heater energy, I'm looking for opinions on using
> 6JH8s with self excited injection. The 2nd mixer requires 1515kc injection,
> and I'm considering using the 6JH8 as a self-excited crystal oscillator to
> eliminate using a separate oscillator stage. Original plan was either a 6BH6
> oscillator, or 6U8 combined osc/buffer.
>
> Second branstorm is to use a self-excited 6JH8 for the Product Detector and
> 85kc BFO, eliminating a separate tube and buffer stage that I had originally
> planned on using (another 6U8). Will osc. pulling be a problem? Any other
> drawbacks?

>
> First mixer will be a 6ES8 Pullen, with a 6U8 used for the tunable LO and
> buffer isolation. AGC will be via a 12AU7 plate detector, 12AU7 infinite
> impedance AM detector, 12AX7 Q-multiplier, 12AU7 first AFA and S-meter amp,
> and a 6AK6 AFA. First IF is 1600kc using cascaded modified ARC-5 IF
> transformers. 2nd IF is 85kc, using cascaded R-23 command RX IFTs.
>
> Pete
>
>

Early SSB exciters used the 7360 tube as a mixer / vfo so I know this
type of tube will work as a self excited converter. As far as pulling
is concerned this would depend on the difference between the oscillator
and IF frequencies, or the oscillator and signal frequencies. But
pulling shouldn't be any worse than with the pentode mixers that
couplied the oscillator to the same grid as the signal input. At least
the 7360 isolates the signal and oscillator to different electrodes.
Also the signal input is balanced and shielded by the screen grid.
OTHO I don't know how good (stable) an oscillator this tube is.
Probably better as a crystal oscillator than a vfo.

From -5418340121623437470
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!x41g2000hsb.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Wed, 17 Sep 2008 19:48:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 90
Message-ID: <7efe49af-de7a-449d-8269-2acfd4e3afd4@x41g2000hsb.googlegroups.com>
References: <GvmdnTUQnMjWOlrVnZ2dnUVZ_tHinZ2d@bright.net>
<79tfc4t34neqfval29spuuaecdfr8sj6gd@4ax.com>
     <yOVxk.799$Dj1.115@trnddc02> <itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com>
     <Q_cyk.60$N5.12@nwrddc01.gnilink.net> <93127bb1-7f9e-4810-bf5c-6ac6f564141e@b1g2000hsg.googlegroups.com>
     <g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
<qMgzk.34534$vX2.2733@bignews6.bellsouth.net>
     <1igrc41dls8pj2jrejt44dpq4h4qdi0o6r@4ax.com> <6bc7995e-2385-450e-9492-a210ed34ac4a@p25g2000hsf.googlegroups.com>
     <8d63d4ds7fua0i8ebubv8ebckt4fu6f1mn@4ax.com>
NNTP-Posting-Host: 64.12.117.200
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1221706133 23612 127.0.0.1 (18 Sep 2008 02:48:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 18 Sep 2008 02:48:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com

```
Injection-Info: x41g2000hsb.googlegroups.com; posting-host=64.12.117.200;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
     98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-mtc-ti11.proxy.aol.com[400C710B] (Prism/1.2.1),
     HTTP/1.1 cache-mtc-ah08.proxy.aol.com[400C75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news2.google.com rec.radio.amateur.homebrew:3161
```

On Sep 17, 8:33=EF=BF=BDpm, AJ Lake <nom...@fakeaddress.com> wrote:
> N...@aol.com wrote:
> > the FCC considered Morse Code skill to be
> >part of what it meant to be a qualified radio amateur...
>
> Even if there was no treaty, the ham employees in the FCC didn't want
> no-code.

Nor did the non-ham employees, until the mid 1970s.

And there *was* a treaty that FCC wouldn't ignore.

> The ARRL didn't want no-code.

If you mean the membership didn't want it, you're right.
> And the average (already) code tested
> ham didn't want no-code. It's not surprising therefore that as a politica=
l
> body the FCC just agreed with it's constituents.

Because the constituents made themselves heard.

Yet as early as 1975 the FCC was trying to create a nocodetest ham
license. The opposition was clear and they backed down. FCC tried
again in 1983 and the opposition made them back down. But in 1991 FCC
did it anyway.

> >I remember the moaning back then. Basically it came down to the idea
> >that many hams felt they'd earned the right to full privileges forever..=
.
>
> I think the moaning was over the basic unfairness of *removing* privilege=
s
> already earned.

That's what I said - many hams felt they'd earned the privileges
forever, no matter how much things changed.

IMHO one of the driving forces was Sputnik and its cousins.

Up until October 1957, the USA had been confident that we were way
ahead of the Soviets in technology. We had jet planes, they were still
using props. We had transistors, computers, color TV, they were way
behind. Etc.

Then Sputnik went up, and the USSR got a first in the history books. It was soon followed by a bunch of other firsts - first animal in space, first pictures of the far side of the moon, first interplanetary probe, and then the first human in space. It was a shock that had repercussions in a lot of ways, one of which was more emphasis on math and science in schools. Another was raising the expectations of ham operators.

Of course it took time to change the rules.

> Over the years there has been many unpopular (to some) license changes but virtually all (maybe all?) involved giving new applicants easier privileges, not taking away already earned privileges.

Since 1969 that's been the case, because nobody wants to be blamed for "incentive licensing version 2".

> >btw, I earned my Advanced in the summer of 1968 and had full privileges for a few weeks until the rules changed in November 1968.
>
> And you didn't moan at all??

Nope. I just went and got an Extra the first time it was legal for me to try for it. Summer 1970.

> Give me a break...

I won't lie to you and say I complained when I didn't. I was a new ham in 1968 and I knew the rules were going to change, so I just upgraded. It was a challenge, not something to complain about. Haven't regretted it since.

I think what bothered a lot of hams back then was that they'd let themselves get really rusty on both code and theory, and the thought of having to pass more tests was really daunting. On top of that, the Advanced and Extra tests couldn't normally be done "by mail" like the Novice, Tech and Conditional, so they'd have to face The Man From FCC rather than another ham for the exams.

All ancient history now. The VE system has been in place for a quarter of a century, Generals now have at least as much 'phone space as they had in 1968, and we're effectively down to three license classes (almost).

73 de Jim, N2EY

From 9001556258651887943
X-Google-Thread: fc2a5,1a70b767cd70bc46
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!

nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-online.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
Date: Thu, 18 Sep 2008 06:30:14 +0100
Organization: Bias Comms
Lines: 35
Message-ID: <6je7b6F2rhscU1@mid.individual.net>
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
<LZiAk.29033$IB6.9166@bignews8.bellsouth.net>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net avIwEEKc7QxMWaxgifLJ6gdz5DwhqqXGmxmjyuvOKpmXTxScdl
Cancel-Lock: sha1:zbUwdWPI1J/UxCugva2pTn+G6PM=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3162

ken scharf wrote:

> Early SSB exciters used the 7360 tube as a mixer / vfo so I know this
> type of tube will work as a self excited converter. As far as pulling
> is concerned this would depend on the difference between the oscillator
> and IF frequencies, or the oscillator and signal frequencies. But
> pulling shouldn't be any worse than with the pentode mixers that
> coupled the oscillator to the same grid as the signal input. At least
> the 7360 isolates the signal and oscillator to different electrodes.
> Also the signal input is balanced and shielded by the screen grid.
> OTHO I don't know how good (stable) an oscillator this tube is.
> Probably better as a crystal oscillator than a vfo.

The very /best/ mixer I ever made used the 7360.

I tried several other types of valve ("tube" - U.S.) mixer, but /nothing/ came even slightly close. The isolation of the local oscillator from the incoming signal, the conversion gain, the accuracy of balance and the bomb-proof nature of the mixer made it superior to /anything/ else I've ever tried. In my receiver, there's a font-end amplifier, using a variable-mu pentode then the 7360. It handles a bigger dynamic range than /any/ other mixer.

The VFO is a "Kallitron" type, using two FETs and a PIC-based huff-and-puff stabiliser (in 10 Hz steps) and two bipolar buffer amplifiers to drive the grids of the 7360. The PIC also drives an LCD display of frequency, and frequency stability is spectacular.

I can assure you - /there/ /is/ /no/ /substitute/ for the 7360. Simply don't consider /anything/ else. Professionally, I've worked extensively on "H-mode" switched mixers - often using very advanced components - and can tell you that the 7360 out-performs /everything/ else!

Chris

From 6032562834877969867
X-Google-Thread: fc2a5,1a70b767cd70bc46
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
newsfeed.freenet.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
Date: Thu, 18 Sep 2008 06:32:51 +0100
Organization: Bias Comms
Lines: 43
Message-ID: <6je7g3F2rhscU2@mid.individual.net>
References: <gVXzk.12264$rV4.5187@newsfe03.iad>
<LZiAk.29033$IB6.9166@bignews8.bellsouth.net> <6je7b6F2rhscU1@mid.individual.net>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net FCfzHouTA4kYeCC3cqS4HgzoDn2TFzGs8xqpERpVSF9wGvVFWB
Cancel-Lock: sha1:gE4/qr3gY1oCtOjUVXqM09jGbNI=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:712

<posted & mailed>

Bob wrote:

> ken scharf wrote:
>
>> Early SSB exciters used the 7360 tube as a mixer / vfo so I know this
>> type of tube will work as a self excited converter. As far as pulling
>> is concerned this would depend on the difference between the oscillator
>> and IF frequencies, or the oscillator and signal frequencies. But
>> pulling shouldn't be any worse than with the pentode mixers that
>> coupled the oscillator to the same grid as the signal input. At least
>> the 7360 isolates the signal and oscillator to different electrodes.
>> Also the signal input is balanced and shielded by the screen grid.
>> OTHO I don't know how good (stable) an oscillator this tube is.
>> Probably better as a crystal oscillator than a vfo.
>
> The very /best/ mixer I ever made used the 7360.
>
> I tried several other types of valve ("tube" - U.S.) mixer, but /nothing/
> came even slightly close. The isolation of the local oscillator from the
> incoming signal, the conversion gain, the accuracy of balance and the
> bomb-proof nature of the mixer made it superior to /anything/ else I've

> ever tried. In my receiver, there's a front-end amplifier, using a
> variable-mu pentode then the 7360. It handles a bigger dynamic range
> than /any/ other mixer.
>
> The VFO is a "Kallitron" type, using two FETs and a PIC-based
> huff-and-puff stabiliser (in 10 Hz steps) and two bipolar buffer
> amplifiers to drive the
> grids of the 7360. The PIC also drives an LCD display of frequency, and
> frequency stability is spectacular.
>
> I can assure you - /there/ /is/ /no/ /substitute/ for the 7360. Simply
> don't consider /anything/ else. Professionally, I've worked extensively
> on "H-mode" switched mixers - often using very advanced components - and
> can tell you that the 7360 out-performs /everything/ else!

One other thing - self-excited mixers /never/ perform well. You should
re-think your approach.

Chris

From 3461347184708841804
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!aioe.org!not-for-mail
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Wed, 17 Sep 2008 23:21:24 -0700
Organization: Aioe.org NNTP Server
Lines: 30
Message-ID: <3qq3d4dfvig673vi45sjcpuqtdgnbeesun@4ax.com>
References: <itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com> <Q_cyk.60$N5.12@nwrddc01.gnilink.net> <93127bb1-7f9e-4810-bf5c-6ac6f564141e@b1g2000hsg.googlegroups.com> <g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com> <qMgzk.34534$vX2.2733@bignews6.bellsouth.net> <1igrc41dls8pj2jrejt44dpq4h4qdi0o6r@4ax.com> <6bc7995e-2385-450e-9492-a210ed34ac4a@p25g2000hsf.googlegroups.com> <8d63d4ds7fua0i8ebubv8ebckt4fu6f1mn@4ax.com> <7efe49af-de7a-449d-8269-2acfd4e3afd4@x41g2000hsb.googlegroups.com>
NNTP-Posting-Host: HujEZ7P3CHXmf3pqAe0VVA.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Agent 1.91/32.564
Xref: g2news1.google.com rec.radio.amateur.homebrew:713

N2EY@aol.com wrote:

>But in 1991 FCC did it [a no-code license] anyway.

I always thought it was silly having a code test for an 'experimenter' license anyway. I never used CW as a Tech. Heck I was too busy working 6M DX (on AM) during that best of all cycles during the late 50s. But I suppose could have told the FCC I was experimenting with the ionosphere...

>Then Sputnik went up, and the USSR got a first in the history books.

Yes, remember it well. I listened to Sputnik on my S40.

>It [Russian technology] was a shock that had repercussions in a lot of ways,

Yup. Got me many years of employment (government contracts).

>nobody wants to be blamed for "incentive licensing version 2"

Can't blame em. One screw up was enough.

>Generals now have at least as much 'phone space as they
>had in 1968,

I could have just kept my old General (or even Tech) license. That's all I really need these days for CW ragchewing.

>and we're effectively down to three license classes (almost).

I predict it will be only one license eventually.

From -2722834949110976107
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-online.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Thu, 18 Sep 2008 07:49:28 +0100
Organization: Bias Comms
Lines: 14
Message-ID: <6jebvoF2ti75U1@mid.individual.net>
References: <itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com>
<Q_cyk.60$N5.12@nwrddc01.gnilink.net> <93127bb1-7f9e-4810-bf5c-6ac6f564141e@b1g2000hsg.googlegroups.com>
<g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
<qMgzk.34534$vX2.2733@bignews6.bellsouth.net>
<1igrc41dls8pj2jrejt44dpq4h4qdi0o6r@4ax.com> <6bc7995e-2385-450e-9492-a210ed34ac4a@p25g2000hsf.googlegroups.com>

```
<8d63d4ds7fua0i8ebubv8ebckt4fu6f1mn@4ax.com> <7efe49af-
de7a-449d-8269-2acfd4e3afd4@x41g2000hsb.googlegroups.com>
<3qq3d4dfvig673vi45sjcpuqtdgnbeesun@4ax.com>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net i0656HQFzMPnY3U8keAjSwLg7XUcKU011RgpWHZ/nN/Z0X/nar
Cancel-Lock: sha1:g0OaYJgxitJxhdSoip17/TAEJ9s=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3165
```

AJ Lake wrote:

> I predict it will be only one license eventually.

It (effectively) is over here in the UK. We do have a limited "novice" licence, but there's little point in going for that. Most people just go for the full licence.

We used to have "A" and "B" licences - the "A" was all bands, all modes, and the "B" was limited to above 50 MHz and didn't require the Morse Test. The requirement for the Morse was removed, so now it's all amalgamated into one licence.

C.

```
From -6534274100988191105
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!news.k-
dsl.de!aioe.org!not-for-mail
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Thu, 18 Sep 2008 00:02:22 -0700
Organization: Aioe.org NNTP Server
Lines: 11
Message-ID: <svu3d495tkim5jqai6f5cipu3dagubt4h1@4ax.com>
References: <93127bb1-7f9e-4810-bf5c-6ac6f564141e@b1g2000hsg.googlegroups.com>
<g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
<qMgzk.34534$vX2.2733@bignews6.bellsouth.net>
<1igrc41dls8pj2jrejt44dpq4h4qdi0o6r@4ax.com> <6bc7995e-2385-450e-9492-
a210ed34ac4a@p25g2000hsf.googlegroups.com>
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<3qq3d4dfvig673vi45sjcpuqtdgnbeesun@4ax.com> <6jebvoF2ti75U1@mid.individual.net>
NNTP-Posting-Host: HujEZ7P3CHXmf3pqAe0VVA.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
```

```
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Agent 1.91/32.564
Xref: g2news2.google.com rec.radio.amateur.homebrew:3166
```

Bob <biascomms@invalid.inv> wrote:

>We used to have "A" and "B" licences - the "A" was all bands, all modes, and
>the "B" was limited to above 50 MHz and didn't require the Morse Test. The
>requirement for the Morse was removed, so now it's all amalgamated into one
>licence.

Was there much moaning over there over the loss of the code test?

In any of your license changes have practicing hams ever lost frequency privileges they had previously earned?

```
From 4492770478366217408
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!79g2000hsk.googlegroups.com!not-for-
mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Thu, 18 Sep 2008 03:41:44 -0700 (PDT)
Organization: http://groups.google.com
Lines: 138
Message-ID: <7487f40b-8dc0-4eb4-afbf-b3d0874d01d7@79g2000hsk.googlegroups.com>
References: <itcgc4p62rs9mn4p8loj7ac09ckc621oe6@4ax.com>
<Q_cyk.60$N5.12@nwrddc01.gnilink.net>
     <93127bb1-7f9e-4810-bf5c-6ac6f564141e@b1g2000hsg.googlegroups.com>
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a210ed34ac4a@p25g2000hsf.googlegroups.com>
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de7a-449d-8269-2acfd4e3afd4@x41g2000hsb.googlegroups.com>
     <3qq3d4dfvig673vi45sjcpuqtdgnbeesun@4ax.com>
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1221734504 15478 127.0.0.1 (18 Sep 2008 10:41:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 18 Sep 2008 10:41:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 79g2000hsk.googlegroups.com; posting-host=64.12.117.200;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
     98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-mtc-tb12.proxy.aol.com[400C702C] (Prism/1.2.1),
     HTTP/1.1 cache-mtc-ah08.proxy.aol.com[400C75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news2.google.com rec.radio.amateur.homebrew:3167
```

On Sep 18, 2:21=EF=BF=BDam, AJ Lake <nom...@fakeaddress.com> wrote:
> N...@aol.com wrote:
> >But in 1991 FCC did it [a no-code license] anyway.
>
> I always thought it was silly having a code test for an 'experimenter'
> license anyway.

Had there not been a treaty requirement, FCC might have not had a
Morse test for Tech from the beginning. We'll never know.

>I never used CW as a Tech. Heck I was too busy working 6M DX
> (on AM) during that best of all cycles during the late 50s. But I suppose
> could have told the FCC I was experimenting with the ionosphere...

A lot of VHF/UHF experimenting in those days did use Morse Code and
still does today. EME (moonbounce), meteor scatter, aurora,
troposcatter and other "weak signal" work was almost all CW. Most of
it still is. Of course those were specialized things back then.

> >Then Sputnik went up, and the USSR got a first in the history books.
>
> Yes, remember it well. I listened to Sputnik on my S40.

Then you may remember the reactions. All of a sudden we were #2 and
that wasn't good enough.

> >It [Russian technology] was a shock that had repercussions in a lot of w=
ays,
>
> Yup. Got me many years of employment (government contracts).

And convinced FCC to be dissatisfied.

> >nobody wants to be blamed for "incentive licensing version 2"
>
> Can't blame em. One screw up was enough.

Was it really a screw up? I think the real mistake was back in 1952.

What happened was that in 1951 the FCC restructured the ham radio
license classes and added a whole bunch of new license classes. That
restructuring was in part due to proposals from two small groups
(membership a couple of thousand each) who argued that the then-
current US amateur license requirements, even for Class A, were too
easy.

In those days it took an Advanced (old Class A) for full privileges.
Which meant taking another 50 question written test for hams with

Generals. The new Extra also had full privileges but had more requirements like 20 wpm code, a 100 question written, and 2 years experience.

But as part of the 1951 restructuring, FCC announced that at the end of 1952 they'd stop issuing new Advanceds. So if a ham didn't have an Advanced by the end of 1952, s/he'd have to go for the much more involved Extra.

A considerable number of hams rushed to get the Advanced before the door closed at the end of 1952. But then, in a surprising about-face, in mid-December the FCC announced that as of Feb 1953 all Generals, Conditionals, Advanceds and Extras would have full operating privileges.

You can just imagine the reaction from hams who'd worked hard to get their Advanceds or Extras, then suddenly found the HF 'phone bands flooded with Generals and Conditionals who had the same privileges.

I don't know why the FCC suddenly reversed their plan, which they'd taken several years to develop. Or why they didn't just leave things the way they were in 1952, and left the Advanced open to new issues.

Nobody I have talked to, nor any reference I have read, gives any reason for that Great Giveaway. And most of the hams licensed after 1952 that I have encountered have no idea of that piece of history.

When I first got interested in getting a ham license I bought the ARRL License Manual for fifty cents. I clearly remember opening it up and seeing the chart of license classes and privileges. I thought that it was incredibly odd that there were six license classes, but four of them (General, Conditional, Advanced and Extra) all carried exactly the same operating privileges. What was up with that? I thought then (and still do) that it made no sense at all.

> >Generals now have at least as much 'phone space as they
> >had in 1968,

> I could have just kept my old General (or even Tech) license. That's all =
I
> really need these days for CW ragchewing.

The circle is complete.

I remember in the 1960s thinking that the incentive license idea was good but the application was bad. I thought what should have been done was to increase the privileges of Advanceds and Extras rather than taking anything away.

For example, in those days on 80/75 the Novice subband was 3700 to 3750 and the 'phone subband was 3800 to 4000. 3750 to 3800 was where the foreign 'phone stations hung out to get away from US QRM. Why not make 3750 to 3800 a phone band for Extras only? And make 3775 to 3800 a phone band for Extras and Advanceds? Similar things could be done to other bands.

Another incentive would be increased power. The old rule was 1000 watts input; I thought a lot of hams would have upgraded if Extras were allowed, say, 2500 watts input. Sure it's only a couple of dB but that never stopped anybody.

I also thought that optional distinctive callsigns for various license classes would be a good incentive too. (That one actually happened, but it was many years later).

> >and we're effectively down to three license classes (almost).
>
> I predict it will be only one license eventually.

Maybe, but it will take a very long time. In seven years we've lost only about 1/3 of the Advanceds. And the FCC doesn't seem inclined to give automatic upgrades nor to merge license classes except by renewal.

I've come across Advanceds who say they like their license because it supposedly proves they passed 13 wpm code. But in fact it doesn't, because from 1990 to 2000 one could get any class of license with 5 wpm and a medical waiver.

The first license class to disappear completely will be the Tech Plus, because FCC has been renewing them as Technician since April 2000. In another 19 months the last Tech Plus should disappear.

The Novice license totals are now well under 20,000 (from 50,000 in 2000) and is also dwindling.

Who will be the very last Novice? The very last Advanced? How long will it take for those license classes to disappear?

73 de Jim, N2EY

From -4273715450283544667
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feeder.erje.net!news.k-dsl.de!newsfeed.freenet.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Bob <biascomms@invalid.inv>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Thu, 18 Sep 2008 12:41:43 +0100
Organization: Bias Comms
Lines: 13
Message-ID: <6jet3nF2vm85U1@mid.individual.net>
References: <93127bb1-7f9e-4810-bf5c-6ac6f564141e@b1g2000hsg.googlegroups.com>

<g8ioc41v6gkaat8g42k59ss8kqk0p8o055@4ax.com>
<qMgzk.34534$vX2.2733@bignews6.bellsouth.net>
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<svu3d495tkim5jqai6f5cipu3dagubt4h1@4ax.com>
Reply-To: biascomms@invalid.inv
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net jlClGvY1op/c82zn0TZBuAE2IIFxVmPjpZpGB8vM6Cngdz+Yk6
Cancel-Lock: sha1:DM25f21J15DwwgGloCT1NnqEjZg=
Mail-Copies-To: biascomms@invalid.inv
User-Agent: KNode/0.10.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:3168

AJ Lake wrote:

> Was there much moaning over there over the loss of the code test?

Some of the "old timers" complained, but most accepted it.

> In any of your license changes have practicing hams ever lost frequency
> privileges they had previously earned?

There are occasional changes, but they are mostly in our favour (like when
we got 50 and 70 MHz bands, previously used for VHF TV).

Bob

From 6260566562205977660
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!z66g2000hsc.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Thu, 18 Sep 2008 06:11:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 42
Message-ID: <12ccce41-e9ea-4526-b293-49d9beb9349f@z66g2000hsc.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
<443b04c6-c18f-43b2-b709-871b0aae3cbb@k37g2000hsf.googlegroups.com>
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<864a548a-00dd-433a-95a5-3bde58880214@34g2000hsh.googlegroups.com>
<68d71c04-d7f5-4708-a719-624679f150b6@25g2000hsx.googlegroups.com>

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     <yNydnVrnzd1sDlPVnZ2dnUVZ8j2dnZ2d@pipex.net> <18216228-3c5a-4cf2-ac38-
ea577aff8f6d@a70g2000hsh.googlegroups.com>
     <48cea46f$1_4@mk-nntp-2.news.uk.tiscali.com>
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1221743486 12337 127.0.0.1 (18 Sep 2008 13:11:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 18 Sep 2008 13:11:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z66g2000hsc.googlegroups.com; posting-host=204.108.8.5;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:718

On Sep 17, 7:59=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> Howdy,
>
> I found the URL for Grossner's book online.http://tinyurl.com/3z7mxv
>
> It seems to me that using the inverter oven transformer
> and IGBT with a flyback controller like UC3842 might work.
>
> Just a straight enough, hard-switched, flyback with single
> ended output. =A0You'd "only" get 1.5-2KV out less output power
> maybe one half to three quarters as much... but that's not bad.
>
> Mmm! =A0Old UPS's have lots of good parts in them, especially
> the ones with big 60Hz transformers and big heatsinks. =A0Chuck
> them into the trunk of your automobile.
>
>
>
> > My big problem at the moment is designinging a transformer. after much
> > reading in the last couple of days I am begining to think it is not
> > the big deal I thought it was. Since I am not trying to build 50k
> > units I dont have to use the cheapest thing I can get by with and can
> > overdesign a bit. I can see that just a few cores may take care of all
> > of my needs. Oh well its back to work so it will be a few days before
> > i get to piddle with this anymore. One of my jobs this week is to go
> > through all the old UPSs we have in the store room and find out which
> > ones are good and chunk the rest.
>
> > Jimmie- Hide quoted text -
>
```

> - Show quoted text -

I was reading up on push-pull topology of switching power supplies
and see that they have problems with flux imbalance. I used to work on
some power supplies that were push pull when I was in the USAF and the
driver transistors were always failing, now I know why. I see that
this isnt as much of a problem for FETs, How about IGBTs.

Jimmie

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mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self-excited Beam Deflection mixers?? Opinions???
Date: Thu, 18 Sep 2008 09:05:15 -0700 (PDT)
Organization: http://groups.google.com
Lines: 128
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References: <gVXzk.12264$rV4.5187@newsfe03.iad>
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Xref: g2news2.google.com rec.radio.amateur.homebrew:3170
```

I'll reply to two posts at once!

Tio Pedro wrote:

>Still mulling over some RX design changes for a HBR receiver project that I
>am considering building. It is going to be an updated version of the HBR
>receiver projects that W6TC, Ted Crosby, penned for QST in the late 50s and
>early 60s.

Interesting! But be aware that the W6TC design has its flaws.

The first is that there are a lot of stages before you get to the selectivity, which limits the dynamic range. The second is that the tunable LO operates at a high frequency on the upper bands and uses plug-in coils, which limits the thermal and mechanical stability as well as having different calibration on each band.

>I've decided to go with 6EH7 semi-remote pentodes for the RF and IF stages
>(overload resistant), meaning my filament current requirements are going out
>of sight.

6EH7 is a good tube. The receiver part of my rig (google my call) uses one in the RF stage and one in the first IF, with a 7360 mixer.

Some must-read QST articles are:

W1DX's article about "what's wrong with our present receivers", January, 1957

The Squires-Sanders article about using the 7360 as a receiver front-end mixer, September 1963

The "Miser's Dream" rx with 7360 mixer and other neat ideas, by W1DX, May 1965

W1KLK's "Experimental Receiver for 75 meter DX", February 1972

An article about the 7360 product detector for the HBR, December 1960

A 6 meter SSB transmitter using the 6JH8 as a high-level balanced modulator, October 1963

The RSGB Handbooks of the 1960s are the best for receiver ideas using the 7360, IMHO.

I know of one design using the 6JH8 or its cousins the 6ME8 and 6HW8. (The 6AR8 is an early tube that is reportedly microphonic).:

http://g4oep.atspace.com/retro/retro.htm

Worth a look!

> 4.7 amps so far, so I want to cut back on the number of stages.

One word: Don't. Use a bigger power transformer, or an auxiliary heater transformer instead. The rx you describe is a big project, why compromise it? With a separate heater transformer having its own power switch, you could put the critical oscillator heaters on it and let them run semi-continuously.

>To cut my tube count and heater energy, I'm looking for opinions on
using
>6JH8s with self excited injection. The 2nd mixer requires 1515kc injection,

>and I'm considering using the 6JH8 as a self-excited crystal oscillator to
>eliminate using a separate oscillator stage. Original plan was either a 6BH6
>oscillator, or 6U8 combined osc/buffer.

The 6BH6 draws only 0.15 A of heater current. IMHO that small saving is not worth the compromise.

Self-exciting the 6JH8 means the signal will go into the deflectors rather than the grid. That's the opposite of usual receiver-mixer practice, where the oscillator feeds the deflectors. I don't know what the noise figure will be, but I do know that all the beam-deflection receiver mixers I've seen put the signal into the grid for high gain and low noise.

The only places I've seen the signal on the deflectors and the oscillator on the grid is in high-signal-level applications like transmitting balanced modulators and mixers, and receiving product detectors, where noise figure isn't really an issue and low gain is OK.

>Second branstorm is to use a self-excited 6JH8 for the Product Detector and
>85kc BFO, eliminating a separate tube and buffer stage that I had originally
>planned on using (another 6U8). Will osc. pulling be a problem? Any other
>drawbacks?

I don't know if you really need a buffer stage on the BFO. A 6BH6 will do the job. See above about where the signal goes.

>First mixer will be a 6ES8 Pullen, with a 6U8 used for the tunable LO and
>buffer isolation.

How stable an oscillator is acceptable?

> AGC will be via a 12AU7 plate detector, 12AU7 infinite
>impedance AM detector, 12AX7 Q-multiplier, 12AU7 first AFA and S-meter amp,
>and a 6AK6 AFA. First IF is 1600kc using cascaded modified ARC-5 IF
>transformers. 2nd IF is 85kc, using cascaded R-23 command RX IFTs.
>FWIW, I found some good material on this subject in the
>March 1960 QST, pps 33 - 38.

Straight out of the RCA Transmitting Tube manual. (RCA considered the 7360 to be a transmitting tube!)

>Another question: I've been told that the 6JH8 works best
>with 0 volts on the deflector electrodes. However, it was
>common practice with the 7360 to use a voltage divider
>between the plate and deflector to provide negative feedback
>(improved linearity) while biasing and balancing the
>deflection electrodes.

I'm not sure about the negative-feedback part but I do know the idea was balance. And the 7360 deflectors were supposed to be biased a couple dozen volts positive.

>I'm thinking of using the same scheme
>on the 6JH8, except having the low end of the voltage
>dividers going to a negative bias source. That would allow
>setting the electrode voltages to 0 volts, or slightly negative
>or positive--whatever works best--while still keeping the
>advantages of having negative feedback from the plate.
>Is this worth doing?

Only way to know for sure is to try. See the G4OEP rx page.

73 es GL de Jim, N2EY

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Date: Thu, 18 Sep 2008 16:57:44 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:3171

<N2EY@aol.com> wrote in message
news:cff8aca2-e79e-4595-bbd8-2af0b82f5905@j22g2000hsf.googlegroups.com...
>
> Tio Pedro wrote:
> > Interesting! But be aware that the W6TC design has its flaws.
>
> The first is that there are a lot of stages before you get to the
> selectivity, which limits the dynamic range.

I was seriously considering adding a half-lattice crystal filter at the
first IF; the IF filter in the Heath HR-10 would be do the job. Now,

to find a junker! I'll probably end up cascading
IF transformers at 1600kc to improve the shape factor and hopefully
improve the dynamic range numbers for signals further out on the
filter slopes. I have the transformers, so I might as well use them
in this lifetime.

The second is that the
> tunable LO operates at a high frequency on the upper bands and uses
> plug-in coils, which limits the thermal and mechanical stability as
> well as having different calibration on each band.

But each LO coil is hand calibrated for thermal drift :) I'd think the
Q would be much better using full-sized plug-in coils vs. phenolic
bandswitches and a compromised inductors. Ted's design ran the
LO on low side injection and used second harmonic injection for
the first mixer on the upper bands. That really sucks and kills the
idea of balanced beam tube in the first mixer. I agree, the design
is dated, and the advent of cheap IF filters killed the design. The
harmonic mixing scheme really bothers me.

> 6EH7 is a good tube. The receiver part of my rig (google my call) uses
> one in the RF stage and one in the first IF, with a 7360 mixer.
>
Been, there, done that :) Getting to see a lot of nice RXs searching
the web!

> One word: Don't. Use a bigger power transformer, or an auxiliary
> heater transformer instead. The rx you describe is a big project, why
> compromise it? With a separate heater transformer having its own power
> switch, you could put the critical oscillator heaters on it and let
> them run semi-continuously.
>

As you noted, the design is inherently limited..

> Self-exciting the 6JH8 means the signal will go into the deflectors
> rather than the grid. That's the opposite of usual receiver-mixer
> practice, where the oscillator feeds the deflectors. I don't know what
> the noise figure will be, but I do know that all the beam-deflection
> receiver mixers I've seen put the signal into the grid for high gain
> and low noise.

Check SSB Exciter Circuits Using a New Beam Deflection Tube,
by K2FF in the March 1960 QST. It is one of the better presentations
that appeared in QST. He also shows a self-excited product detector
circuit as one example. I'd think the advantage in the PD with
G1 injection might be improved BFO blowby rejection,
which could otherwise affect the AGC system?
>
>
> I don't know if you really need a buffer stage on the BFO. A 6BH6 will
> do the job. See above about where the signal goes.

The buffer could be used for a CF or phase inverter, if I wanted to
use BFO injection on both deflectors. I know only one needs to be
driven in practice.
>
>>First mixer will be a 6ES8 Pullen, with a 6U8 used for the tunable LO and
>>buffer isolation.
>
> How stable an oscillator is acceptable?

Buffer stage is recommended practice with the Pullen Mixer. It's easier
to use the pentode/triode, and ending not needing to use the stage, than
to add it later..
>
  > I'm not sure about the negative-feedback part but I do know the idea
> was balance. And the 7360 deflectors were supposed to be biased a
> couple dozen volts positive.

The negative feedback is mentioned in the QST article; it applies to
the product detector circuit where the deflector bias is taken directly from
the plates of the tube.
>
 > 73 es GL de Jim, N2EY

Thanks for the comments..

Pete

From -7353159575476442606
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Thu, 18 Sep 2008 16:30:10 -0700
Organization: Aioe.org NNTP Server
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Xref: g2news2.google.com rec.radio.amateur.homebrew:3172

N2EY@aol.com wrote:

>Had there not been a treaty requirement, FCC might have not had a
>Morse test for Tech from the beginning.

The treaty applied to 30MHz and below. Techs couldn't go there. The treaty wouldn't apply to them.

>A lot of VHF/UHF experimenting in those days did use Morse Code

Techs only had 220 and up. Why require a 5 WPM test for moon bounce??

>and still does today. EME (moonbounce), meteor scatter, aurora,
>troposcatter and other "weak signal" work was almost all CW.

If Techs do all that CW work today *without* a code test, what justification is there for requiring the code test back then?

>Was it [incentive licensing] really a screw up?
>I think the real mistake was back in 1952.

My old boss used to moan bitterly about the 52 license change when I worked for him in the 50s. He had been a Class A. But the difference is that in that change he *didn't lose* any privileges. He did lose privileges with the later Incentive Licensing change though. Which change do you think he felt worse about?

>You can just imagine the reaction from hams who'd worked hard to get
>their Advanceds or Extras, then suddenly found the HF 'phone bands
>flooded with Generals and Conditionals who had the same privileges.

Probably like having the HF frequencies flooded by no-coders... 8-O

>Another incentive would be increased power.

If I were made boss, the maximum power allowed for any class would be 100W. And if used as an incentive, start at say 25 W for the entry license. Just think of the reduction in neighbor complaints. Just think of the increase in operator skill...

>Who will be the very last Novice? The very last Advanced? How long
>will it take for those license classes to disappear?

They will likely disappear when they change to one license...
(Like the Class A disappeared.)

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From: "JB" <nospam@goofball.net>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:568


"Ralph Mowery" <rmowery28146@earthlink.net> wrote in message
news:isednRHGZahIFV_VnZ2dnUVZ_qzinZ2d@earthlink.com...
>
> "Tio Pedro" <radioconnection@cox.net> wrote in message
> news:E2vwk.21259$3A4.20973@newsfe04.iad...
> >>
> > I've been racking my brain trying to figure out a reason.
> > But, I think you hit the nail on the head. It fits right in
> > with the obsolescence of the FCC 1st and 2nd Class
> > Radiotelephone tickets.
> >
> > Pete
>
> They may as well have done away with the FCC tickets.  I passed the 1st
> class test at 22 years of age in 1972 on the first try for the ticket.  I
> had never seen a TV transmitter, but had the ticket to work on them.
Maybe
> years ago it was differant and a harder test.
> Thought I wanted to get into the 2 way repair business, but never did.
When
> I took the test it was only one dollar more for the first class, so took
```

it
> and passed
> Most of the tests are made so any idiot can pass them.
>

Mamas don't let your babies grow up to be radio techs.

I did the Advanced Ham ticket, then 2nd phone when I was 17 and got sucked into MNSO immediately.

Nobody cares about the FCC tickets but the Gov't. The private industry actually holds it against you because you have rules and they don't.
And I'm worn out from always being threatened by people with guns and billy clubs who's first instinct is to smash something if it seems uncooperative.
Then there's the hams "bless their hearts" who put me out of business by doing free work. Retirement is sweet but I'm dirt poor.

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From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
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X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:569


"JB" <nospam@goofball.net> wrote in message
news:_6wwk.729$393.65@trnddc05...
>
> "Ralph Mowery" <rmowery28146@earthlink.net> wrote in message
> news:isednRHGZahIFV_VnZ2dnUVZ_qzinZ2d@earthlink.com...
>>
>> "Tio Pedro" <radioconnection@cox.net> wrote in message
>> news:E2vwk.21259$3A4.20973@newsfe04.iad...
>
> Nobody cares about the FCC tickets but the Gov't.  The private industry
> actually holds it against you because you have rules and they don't.
> And I'm worn out from always being threatened by people with guns and
> billy
> clubs who's first instinct is to smash something if it seems
> uncooperative.
> Then there's the hams "bless their hearts" who put me out of business by
> doing free work.  Retirement is sweet but I'm dirt poor.
>
>
That is why I did not go into the radio business.  Friend told me of a job
opening.  I was making about $ 2 an hour more at the time and had a good
retirement package.
The job I was doing did not require any special license or anything.
Working for a large company as an electrician/instrument technician.
Did not have to have an electrical license as large companies don't require
it and neither does the government.




From 2469023965452066197
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Newsgroups: rec.radio.amateur.homebrew
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
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Subject: Re: Heterodyne conversion crystals
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Lines: 45
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
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NNTP-Posting-Host: 72.192.52.79
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe06.iad 1220714218 72.192.52.79 (Sat, 06 Sep 2008 15:16:58 UTC)
NNTP-Posting-Date: Sat, 06 Sep 2008 15:16:58 UTC
Organization: Cox
Date: Sat, 6 Sep 2008 11:16:50 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:570


"Ralph Mowery" <rmowery28146@earthlink.net> wrote in message
news:b-WdnQ3Aha3SBl_VnZ2dnUVZ_v3inZ2d@earthlink.com...
>
> "JB" <nospam@goofball.net> wrote in message
> news:_6wwk.729$393.65@trnddc05...
>>
>> "Ralph Mowery" <rmowery28146@earthlink.net> wrote in message
>> news:isednRHGZahIFV_VnZ2dnUVZ_qzinZ2d@earthlink.com...
>>>
>>> "Tio Pedro" <radioconnection@cox.net> wrote in message
>>> news:E2vwk.21259$3A4.20973@newsfe04.iad...
>>
>> Nobody cares about the FCC tickets but the Gov't.  The private industry
>> actually holds it against you because you have rules and they don't.
>> And I'm worn out from always being threatened by people with guns and
>> billy
>> clubs who's first instinct is to smash something if it seems
>> uncooperative.
>> Then there's the hams "bless their hearts" who put me out of business by
>> doing free work.  Retirement is sweet but I'm dirt poor.
>>
>>
> That is why I did not go into the radio business.  Friend told me of a job
> opening.  I was making about $ 2 an hour more at the time and had a good
> retirement package.
> The job I was doing did not require any special license or anything.
> Working for a large company as an electrician/instrument technician.
> Did not have to have an electrical license as large companies don't
> require it and neither does the government.
>

I got my FCC 1st in high school after working tobacco for one
summer. The remainder of my summer vacations were spent
tending AM/FM/TV transmitter sites as summer replacement.
Paid was good for a kid, and I didn't get dirty :)  One of my first
interim "career" jobs was a field tech for RCA/Univac mainframe
systems.  I'm not sure which career (broadcasting or mainframe
```

computer) careers faded into oblivion first. Both are rght up
there with coal delivery techicians and icemen.

Pete
>

From 6083962547997193020
X-Google-Thread: fc2a5,f99f9ead7ef987a3,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: "B. Newberger" <barry.newberger@amd.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Looking for AMI Switched Capacitor Filter IC
Date: Sat, 06 Sep 2008 10:33:05 -0500
Organization: Aioe.org NNTP Server
Lines: 10
Message-ID: <20080906-153305.851.0@B.xNewberger.aioe.cjb.net>
NNTP-Posting-Host: Gf5OgyTGL3DNf/TCaF5Syg.user.aioe.org
Mime-Version: 1.0
Content-Type: Text/Plain; charset=US-ASCII
X-Complaints-To: abuse@aioe.org
X-Newsreader: WinVN 0.99.12z (x86 32bit)
Xref: g2news1.google.com rec.radio.amateur.homebrew:571

Need an AMI S3529 switched-capacitor HP filter. The S3529
and the S3528 LP counterpart were featured in an April '86 QST article
entitled SuperSCAF and Son. I still have the S3528, but seem to have
misplaced the S3529.

TIA,

Barry Newberger
w5kh@arrl.net

From -7286743864776067144
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 06 Sep 2008 10:59:18 -0500
Date: Sat, 06 Sep 2008 15:59:17 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)

X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
<bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
<Pine.LNX.4.64.0809031447550.5386@darkstar.example.org> <7509c4db-2511-45f2-a4ee-f3a9e1801742@26g2000hsk.googlegroups.com> <g_bwk.563$1a2.176@trnddc04>
<E2vwk.21259$3A4.20973@newsfe04.iad>
<isednRHGZahIFV_VnZ2dnUVZ_qzinZ2d@earthlink.com> <_6wwk.729$393.65@trnddc05> <b-WdnQ3Aha3SBl_VnZ2dnUVZ_v3inZ2d@earthlink.com> <K9xwk.43335$4s1.20862@newsfe06.iad>
In-Reply-To: <K9xwk.43335$4s1.20862@newsfe06.iad>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <G-udnSMpqPlLNV_VnZ2dnUVZ_r_inZ2d@bright.net>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-6dbpuZ055RrcgJqRc9dJ+4JBLDOs98LQ5KHoCA21OKtAMvsVAGxlIdW+sneuGeU/J/RwsQ7UcNWD8u/!DAInA5pvjGoJ6Jgmcx15tmwWQUW8V7OhbzpIGNJtAxulVNQlVqHWkmWx3jh8yutq/3IAfAOhhqXS!lsXWzJJ5dg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:572

Tio Pedro wrote:
  One of my first
> interim "career" jobs was a field tech for RCA/Univac mainframe
> systems. I'm not sure which career (broadcasting or mainframe
> computer) careers faded into oblivion first. Both are rght up
> there with coal delivery techicians and icemen.
>
> Pete
>
>
>
Damn! I just got my degree in coal delivery. I guess I always am a day
late and a dollar short! ;) Guess I'll have to keep my day job (radio
tech...VHF up through 7 GHz)

Scott
N0EDV

From 247459759950824213
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!p25g2000hsf.googlegroups.com!not-for-mail
From: jimmie68@gmail.com

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Sat, 6 Sep 2008 12:18:54 -0700 (PDT)
Organization: http://groups.google.com
Lines: 132
Message-ID: <4271c502-6b97-4b18-8d70-b5e05372cbc7@p25g2000hsf.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
     <91ebb146-390b-4f57-9ebf-700165e1dfd4@m73g2000hsh.googlegroups.com>
     <91d34a93-1f80-4795-a0fd-67c4be7c6790@l42g2000hsc.googlegroups.com>
     <2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com>
     <eff414ad-3498-41b5-b0d3-0c8c2bc67daf@m45g2000hsb.googlegroups.com>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1220728734 23467 127.0.0.1 (6 Sep 2008 19:18:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 6 Sep 2008 19:18:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p25g2000hsf.googlegroups.com; posting-host=204.108.8.5;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:573

On Sep 1, 9:57=A0pm, jimmi...@gmail.com wrote:
> On Sep 1, 7:48=A0pm, raypsi <RBorow...@gmail.com> wrote:
>
>
>
>
>
> > On Aug 28, 8:39=A0pm, jimmi...@gmail.com wrote:
>
> > > On Aug 28, 4:02=A0pm, jimmi...@gmail.com wrote:
>
> > > > On Aug 27, 12:40=A0pm, raypsi <RBorow...@gmail.com> wrote:
>
> > > > > finally came across an article by VK3HZ that describes how to mak=
e a
> > > > > microwave oven inverter PS work, as a stand alone supply.
> > > > > the link is:www.users.bigpond.net.au/dwsmith/hv_inverter.pdf
>
> > > > > It's only regulated from the primary side. And you can make it pu=
t out
> > > > > anything from 2000 to 4000 VDC. but at 1300 watts.
>
> > > > > So all I have to do is load down the primary to fake out the regu=
lator
> > > > > into seeing 1300 watts, Or run class A.
>
> > > > > The output or the input still has to be filtered
```

>
> > > > > There's an opto coupler that has to see a 110hz square wave, acco=
rding
> > > > > to VK3HZ, that'll keep the supply running full tilt as long as th=
ere
> > > > > is power supplied to the inverter.
>
> > > > > 73
> > > > > n8zu
>
> > > > If the circuit can be driven from 555 osc perhaps the pulse width c=
an
> > > > be controlled from a feedback voltage taken off the output of the
> > > > power supply.
> > > > I am thinking adding a small winding to the transformer rectifying =
and
> > > > filtering it and supplying this back to control the pulse width of
> > > > your osc.
>
> > > > JImmie- Hide quoted text -
>
> > > > - Show quoted text -
>
> > > I was the OP of the origonal thread about the inverter power supplies=
.
> > > I was actually more interested in learning about the design of the
> > > power supplies so I could possibly build one from scratch. With the
> > > right information this may be easier to do than to modify one from a
> > > microwave oven. I am very grateful for the information. I have a
> > > couple of the Panasonic power supplies unfortunately they dont work
> > > but maybe I can repair them now that I have a schematic. Information
> > > on the transformer would be a good thing to have as I am sure it coul=
d
> > > be optimized for the desired output voltage and current needed for an
> > > amateur amplifier.
>
> > > With the current transformer on the front end I am guessing this may
> > > be the feedback path for regulation. That is to say the power supply
> > > is being controlled by the amount of current that is being drawn on
> > > the input side of the power supply. If this is the case maybe this
> > > input can be taken of the out put of the power supply and then the
> > > supply could be voltage regulated instead of being power regulated.
>
> > > Jimmie- Hide quoted text -
>
> > > - Show quoted text -
>
> > Hey Jimmie
>
> > I suppose =A0that you could use the duty cycle feature of this supply t=
o
> > control the output
> > but I'd need a bank of 450WVDC caps to supply filtering.

> > So say the power of the amp drops: the supply will compensate by
> > increasing the voltage.
>
> .
>
> > But with feedback I could drop the duty cycle thru the opto coupled
> > input. Thus causing a drop in voltage which the filter would handle.
> > By running the inverter at another lower duty cycle I can control the
> > output voltage.
>
> > I would suggest at least a bank of 16, 450WVDC for a little head room.
> > Plus that would take out the 120 cycle ripple.
>
> > 73
>
> > n8zu- Hide quoted text -
>
> > - Show quoted text -
>
> Thats pretty much my idea.
> In radars something very similar to develop 6KV to charge the PFN. If
> you could analyze the circuit where the current sample is picked off
> the AC mains that would tell us a lot about what would be needed to
> develop the proper feedback signal off of the switching transformer.
> Unfortunately I am without power supply at the moment. Well I have one
> but my wife has forbid me to touch it. That is her primary cooking
> device As Dave idicated the rectifiers for the output of the pwer
> supply are configured as a doubler and it could be configured as a
> bridge if you wanted lower voltage. I am thinking maybe(a lot of
> supposig here) this thing may be configured from 1500 to nearly 5kv by
> using a combination af feedback adjustment and rectifier
> configuration.
>
> I agree with about the caps,
>
> I emailed Dave and he pretty much agrees with my idea at least in
> theory but he has dropped the project at least for now.
>
> didnt you say you had a source for these power supplies.
>
> Anyone who gets this to work would surely have some serious ham radio
> bragging rights.
>
> Jimmie- Hide quoted text -
>
> - Show quoted text -

I have found some better schematics on the inverter. It looks like
modifying the power supply for amateur QRO is very plausable. Where
could I post them so anyone who wanted them would have access?

Jimme

```
From -5941062108540570745
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 06 Sep 2008 14:54:16 -0500
Date: Sat, 06 Sep 2008 20:54:11 +0100
From: Highland Ham <rfburns@allbands.net>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
<bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
<Pine.LNX.4.64.0809031447550.5386@darkstar.example.org> <7509c4db-2511-45f2-a4ee-
f3a9e1801742@26g2000hsk.googlegroups.com> <g_bwk.563$1a2.176@trnddc04>
<E2vwk.21259$3A4.20973@newsfe04.iad>
<isednRHGZahIFV_VnZ2dnUVZ_qzinZ2d@earthlink.com> <_6wwk.729$393.65@trnddc05>
In-Reply-To: <_6wwk.729$393.65@trnddc05>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <rYadnS7EBOl1Ql_VnZ2dnUVZ8j-dnZ2d@pipex.net>
Lines: 10
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.85.225
X-Trace: sv3-yxVXIFJ7P6szk+EXUdo/
9h8sRHiXxVWp8LJ0zVPAIQmLWzrMUZQLvCHWSY7ocgwq1yolgbIYfyxZl8S!
mSYYj9CqwF0MO46m2c+Gf7y0f7KJF89klme0byR/c1Tus4Y3iBTwNTkVe26Ot/lcGZiq5eGak9lz!
1BoMgbIIfmAEKnKzXuMAOetVjA==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:574
```

JB wrote:
snip

> Then there's the hams "bless their hearts" who put me out of business by
> doing free work. Retirement is sweet but I'm dirt poor.

==
Hams are radio AMATEURS so it is logical that they do work for free,
since they are involved in a hobby.

Frank   GM0CSZ / KN6WH

```
From -3665885290524095791
```

```
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
newsfeed3.dallas1.level3.net!news.level3.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc05.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
<bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
<Pine.LNX.4.64.0809031447550.5386@darkstar.example.org> <7509c4db-2511-45f2-a4ee-
f3a9e1801742@26g2000hsk.googlegroups.com> <g_bwk.563$1a2.176@trnddc04>
<E2vwk.21259$3A4.20973@newsfe04.iad>
<isednRHGZahIFV_VnZ2dnUVZ_qzinZ2d@earthlink.com> <_6wwk.729$393.65@trnddc05>
<rYadnS7EBOl1Ql_VnZ2dnUVZ8j-dnZ2d@pipex.net>
Subject: Re: Heterodyne conversion crystals
Lines: 28
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <g5Dwk.762$393.740@trnddc05>
Date: Sat, 06 Sep 2008 22:01:48 GMT
NNTP-Posting-Host: 71.104.210.239
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc05 1220738508 71.104.210.239 (Sat, 06 Sep 2008 18:01:48 EDT)
NNTP-Posting-Date: Sat, 06 Sep 2008 18:01:48 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:575
```

"Highland Ham" <rfburns@allbands.net> wrote in message
news:rYadnS7EBOl1Ql_VnZ2dnUVZ8j-dnZ2d@pipex.net...

> JB wrote:
> snip
> > Then there's the hams "bless their hearts" who put me out of business by
> > doing free work. Retirement is sweet but I'm dirt poor.
> ==
> Hams are radio AMATEURS so it is logical that they do work for free,
> since they are involved in a hobby.
>
> Frank   GM0CSZ / KN6WH

That's why they have to learn to seperate their hobby from the pecuniary interests of others. So they don't become a target for commercial interests.

If some one or group should be buying or renting radios or systems because their entity has regular need for radio dispatch or communications of a non-hobby nature, they should seek professional help while it exists rather than exploiting the ham.

Of course if we all join the Communist Party and the government volunteers to provide us with free food, housing, clothing, medical and other basic subsistence needs, we should do whatever they want after we finish our compulsory rice picking for the day.

```
From 51389317058800253
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe07.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
<bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
<Pine.LNX.4.64.0809031447550.5386@darkstar.example.org> <7509c4db-2511-45f2-a4ee-
f3a9e1801742@26g2000hsk.googlegroups.com> <g_bwk.563$1a2.176@trnddc04>
<E2vwk.21259$3A4.20973@newsfe04.iad>
<isednRHGZahIFV_VnZ2dnUVZ_qzinZ2d@earthlink.com> <_6wwk.729$393.65@trnddc05>
<rYadnS7EBOl1Ql_VnZ2dnUVZ8j-dnZ2d@pipex.net> <g5Dwk.762$393.740@trnddc05>
Subject: Re: Heterodyne conversion crystals
Lines: 26
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <3RDwk.35000$_s1.2139@newsfe07.iad>
NNTP-Posting-Host: 72.192.52.79
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe07.iad 1220741567 72.192.52.79 (Sat, 06 Sep 2008 22:52:47 UTC)
NNTP-Posting-Date: Sat, 06 Sep 2008 22:52:47 UTC
Organization: Cox
Date: Sat, 6 Sep 2008 18:52:39 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:576
```

"JB" <nospam@goofball.net> wrote in message news:g5Dwk.762
>
> That's why they have to learn to seperate their hobby from the pecuniary
> interests of others. So they don't become a target for commercial
> interests.
>
> If some one or group should be buying or renting radios or systems because
> their entity has regular need for radio dispatch or communications of a
> non-hobby nature, they should seek professional help while it exists
> rather
> than exploiting the ham.
>
> Of course if we all join the Communist Party and the government volunteers

```
> to provide us with free food, housing, clothing, medical and other basic
> subsistence needs, we should do whatever they want after we finish our
> compulsory rice picking for the day.
>
>
It was the same in broadcasting.  There was always a person
willing to DJ for free, just for the fun of it, at the smaller
stations. Folks who were trying to make a meager living
behind the mikes were at the mercy of hobbyists.
```

```
From -2057969400230599508
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
73g2000hsx.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
Date: Sat, 6 Sep 2008 16:38:02 -0700 (PDT)
Organization: http://groups.google.com
Lines: 70
Message-ID: <5f28f00d-8c15-499a-8bd2-cd053797d17a@73g2000hsx.googlegroups.com>
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
     <bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
     <Pine.LNX.4.64.0809031447550.5386@darkstar.example.org> <7509c4db-2511-45f2-
a4ee-f3a9e1801742@26g2000hsk.googlegroups.com>
NNTP-Posting-Host: 76.226.207.25
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1220744282 7923 127.0.0.1 (6 Sep 2008 23:38:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 6 Sep 2008 23:38:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 73g2000hsx.googlegroups.com; posting-host=76.226.207.25;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.16)
     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:577

On Sep 4, 9:11 pm, raypsi <RBorow...@gmail.com> wrote:
> On Sep 3, 2:54 pm, Michael Black <et...@ncf.ca> wrote:
>
>
>
> > On Wed, 3 Sep 2008, raypsi wrote:
> > > Hey Gary,
```

>
> > > Rocks aren't cheap here:http://www.icmfg.com/thruhole_crystals.html
> > > Maybe in 9 land they pave the streets with gold.
> > > Personally I'd go with a programmable divider or PLL.
>
> > > Maybe you like retro, then I'd get some old rocks the ones
> > > you can take apart and grind them down to git's the freq's you need.
>
> > And you can't grind them unless they are quite close to the desired
> > frequency. Grinding by hand will be too uneven, so the crystal will
> > stop working if you try to grind it more than a tiny bit.
>
> > It also relies on a big stock of crystals spread around so you can
> > find one sufficiently close enough, something that did seem possible
> > in the years after WWII, but after all this time attrition may have
> > reduced the stock considerably.
>
> > And realistically, they also have to be bulky FT-243 holders, since
> > those you can open by removing screws, and the blank is held in place
> > with pressure. More recent holder types require desoldering the case,
> > and figuring out how to remove the blank and then get it back in place
> > when it's soldered in place (or something like that I can't remember how
> > the blank is connected).
>
> > One of the odd things is that if one has to buy new crystals, a
> > synthesizer will likely be far cheaper. In the early seventies,
> > synthesizers made a big splash because everyone wanted lots of channels
> > on 2m FM, and the need to have them ground to frequency (and to equipment)
> > made it all very costly, so synthesizers despite their cost and bulk
> > became the norm.
>
> > Almost forty years later, a synthesizer for a handful of crystals would
> > still be comparatively bulky, but would be even cheaper than in the early
> > seventies.
>
> >   Michael VE2BVW
>
> Believe it or not I was making a living sell rocks HI HI back forty
> years ago.
> It was like there was a freaking crystal company on every corner.
> There was so
> much competition back then the prices was chump change. The crystal
> companies
> could have put the big hurt on PLL or programmable dividers. I know
> the real
> reason crystals took a back seat, and it;s not what anybody thinks
> happened.
>
> 73 OM
>
> n8zu

You don't see any newbies on here making any rock controlled hets..

```
It's like vinyl records or CD's
they is all gone. They don't want you to know about crystals there is
to much
power in that knowledge. They want everyone dumbed down so they can be
controlled,
that's why they did away with code, nobody will ever know it ever
existed in 5 years time.

73
n8zu



From -3901304959989066198
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!79g2000hsk.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Sat, 6 Sep 2008 16:57:32 -0700 (PDT)
Organization: http://groups.google.com
Lines: 136
Message-ID: <54d91d17-c2ae-4b0d-b999-8073e161e460@79g2000hsk.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
     <91ebb146-390b-4f57-9ebf-700165e1dfd4@m73g2000hsh.googlegroups.com>
     <91d34a93-1f80-4795-a0fd-67c4be7c6790@l42g2000hsc.googlegroups.com>
     <2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 6 Sep 2008 23:57:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 79g2000hsk.googlegroups.com; posting-host=76.226.207.25;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.16)
     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:578

On Sep 6, 3:18 pm, jimmi...@gmail.com wrote:
> On Sep 1, 9:57 pm, jimmi...@gmail.com wrote:
>
>
>
> > On Sep 1, 7:48 pm, raypsi <RBorow...@gmail.com> wrote:
>
```

> > > On Aug 28, 8:39 pm, jimmi...@gmail.com wrote:
>
> > > > On Aug 28, 4:02 pm, jimmi...@gmail.com wrote:
>
> > > > > On Aug 27, 12:40 pm, raypsi <RBorow...@gmail.com> wrote:
>
> > > > > > finally came across an article by VK3HZ that describes how to make a
> > > > > > microwave oven inverter PS work, as a stand alone supply.
> > > > > > the link is:www.users.bigpond.net.au/dwsmith/hv_inverter.pdf
>
> > > > > > It's only regulated from the primary side. And you can make it put out
> > > > > > anything from 2000 to 4000 VDC. but at 1300 watts.
>
> > > > > > So all I have to do is load down the primary to fake out the regulator
> > > > > > into seeing 1300 watts, Or run class A.
>
> > > > > > The output or the input still has to be filtered
>
> > > > > > There's an opto coupler that has to see a 110hz square wave, according
> > > > > > to VK3HZ, that'll keep the supply running full tilt as long as there
> > > > > > is power supplied to the inverter.
>
> > > > > > 73
> > > > > > n8zu
>
> > > > > If the circuit can be driven from 555 osc perhaps the pulse width can
> > > > > be controlled from a feedback voltage taken off the output of the
> > > > > power supply.
> > > > > I am thinking adding a small winding to the transformer rectifying and
> > > > > filtering it and supplying this back to control the pulse width of
> > > > > your osc.
>
> > > > > JImmie- Hide quoted text -
>
> > > > > - Show quoted text -
>
> > > > I was the OP of the origonal thread about the inverter power supplies.
> > > > I was actually more interested in learning about the design of the
> > > > power supplies so I could possibly build one from scratch. With the
> > > > right information this may be easier to do than to modify one from a
> > > > microwave oven. I am very grateful for the information. I have a
> > > > couple of the Panasonic power supplies unfortunately they dont work
> > > > but maybe I can repair them now that I have a schematic. Information
> > > > on the transformer would be a good thing to have as I am sure it could
> > > > be optimized for the desired output voltage and current needed for an
> > > > amateur amplifier.
>
> > > > With the current transformer on the front end I am guessing this may
> > > > be the feedback path for regulation. That is to say the power supply
> > > > is being controlled by the amount of current that is being drawn on
> > > > the input side of the power supply. If this is the case maybe this
> > > > input can be taken of the out put of the power supply and then the
> > > > supply could be voltage regulated instead of being power regulated.

>
> > > > Jimmie- Hide quoted text -
>
> > > > - Show quoted text -
>
> > > Hey Jimmie
>
> > > I suppose that you could use the duty cycle feature of this supply to
> > > control the output
> > > but I'd need a bank of 450WVDC caps to supply filtering.
> > > So say the power of the amp drops: the supply will compensate by
> > > increasing the voltage.
>
> > .
>
> > > But with feedback I could drop the duty cycle thru the opto coupled
> > > input. Thus causing a drop in voltage which the filter would handle.
> > > By running the inverter at another lower duty cycle I can control the
> > > output voltage.
>
> > > I would suggest at least a bank of 16, 450WVDC for a little head room.
> > > Plus that would take out the 120 cycle ripple.
>
> > > 73
>
> > > n8zu- Hide quoted text -
>
> > > - Show quoted text -
>
> > Thats pretty much my idea.
> > In radars something very similar to develop 6KV to charge the PFN. If
> > you could analyze the circuit where the current sample is picked off
> > the AC mains that would tell us a lot about what would be needed to
> > develop the proper feedback signal off of the switching transformer.
> > Unfortunately I am without power supply at the moment. Well I have one
> > but my wife has forbid me to touch it. That is her primary cooking
> > device As Dave idicated the rectifiers for the output of the pwer
> > supply are configured as a doubler and it could be configured as a
> > bridge if you wanted lower voltage. I am thinking maybe(a lot of
> > supposig here) this thing may be configured from 1500 to nearly 5kv by
> > using a combination af feedback adjustment and rectifier
> > configuration.
>
> > I agree with about the caps,
>
> > I emailed Dave and he pretty much agrees with my idea at least in
> > theory but he has dropped the project at least for now.
>
> > didnt you say you had a source for these power supplies.
>
> > Anyone who gets this to work would surely have some serious ham radio
> > bragging rights.
>

> > Jimmie- Hide quoted text -
>
> > - Show quoted text -
>
> I have found some better schematics on the inverter. It looks like
> modifying the power supply for amateur QRO is very plausable. Where
> could I post them so anyone who wanted them would have access?
>
> Jimme

Do you have windows movie maker you could put it on youtube.com if
there in some
pix file extension like jgp or gif. I had a single pix that I put in
movie maker with intro caption.
Then downloaded it to youtube. A 15 sec single frame video with intro
caption.

Thanks for bringing it up, that jarred my grey matter. I can post a
video to you tube
Now to figure out how to get that power supply to copy on my scanner.

73
n8zu

```
From 1607348141075374336
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!c65g2000hsa.googlegroups.com!not-for-
mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
Date: Sat, 6 Sep 2008 17:31:58 -0700 (PDT)
Organization: http://groups.google.com
Lines: 136
Message-ID: <9e68e647-6f92-4eea-b160-4604766dbe30@c65g2000hsa.googlegroups.com>
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
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X-Trace: posting.google.com 1220747518 18491 127.0.0.1 (7 Sep 2008 00:31:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 7 Sep 2008 00:31:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c65g2000hsa.googlegroups.com; posting-host=205.188.117.200;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
     98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-dtc-td08.proxy.aol.com[CDBC7068] (Prism/1.2.1),
```

HTTP/1.1 cache-dtc-ah08.proxy.aol.com[CDBC75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:579

On Sep 2, 4:12=EF=BF=BDpm, Gary@ removenospamandputkf9cm.com wrote:
> I am looking for some Heterodyne conversion crystals for a receiver I am
> making.
> The frequencies are: 5 MHz, 7 MHz, 10.5 MHz, 13.5 MHz, =EF=BF=BD17.5 MHz =
and 21.5
> MHz.
> The variable mixing frequency will be from 3 to 3.5 MHz. I would prefer a=
ll
> the same type holder.

Once source of crystals is eBay. Another is AF4K (google his call), he
has quite a stock in various holders.

But be prepared to pay more than a few dollars per crystal!

Actually, when you adjust for inflation, crystals cost about as much
now as they did 30-40 years ago. Three dollars back in 1965 is the
equivalent of about twenty dollars today.

You can also do things like use harmonics and overtones of the
crystals to get the higher frequencies.

--

But before you start building, I suggest you reconsider that mixing
scheme.

As I understand it, the receiver will consist of a tunable section
that covers 3 to 3.5 MHz, and a converter section which converts the
various ham bands to that tuning range.

So for 160, you would take the 2 to 1.5 MHz range, subtract it from 5
MHz, and get 3 to 3.5 MHz

For 80, you would take the 4 to 3.5 MHz range, subtract it from 7
MHz, and get 3 to 3.5 MHz

For 40, you would take the 7.5 to 7 MHz range, subtract it from 10.5
MHz, and get 3 to 3.5 MHz

For 30, you would take the 10.5 to 10.0 MHz range, subtract it from
13.5 MHz, and get 3 to 3.5 MHz

For 20, you would take the 14.5 to 14 MHz range, subtract it from 17.5
MHz, and get 3 to 3.5 MHz

For 17, you would take the 18.5 to 18 MHz range, subtract it from 21.5
MHz, and get 3 to 3.5 MHz

I guess you don't plan on 15, 12 or 10 meters.

The main problem I see with this design is on 80 meters. On that band, the tunable frequency is too close to the band being covered, and you'll likely have troubles with feedthrough. For example, when you are trying to listen to a signal on, say, 3.6 MHz, the tunable section will be on 3.4 MHz, and the front-end selectivity probably won't be able to stop strong signals from leaking through.

I suggest you look at other heterodyne schemes, because 80 meter operation will be compromised using the scheme you describe.

Here's one to consider, from G2DAF:

Tunable range is 5 to 5.5 MHz

For 160, you would take the 2 to 1.5 MHz range, subtract it from 7 MHz, and get 5 to 5.5 MHz

For 80, you would take the 4 to 3.5 MHz range, subtract it from 9 MHz, and get 5 to 5.5 MHz

For 40, you would take the 7.5 to 7 MHz range, subtract it from 12.5 MHz, and get 5 to 5.5 MHz

For 30, you would take the 10.5 to 10.0 MHz range, subtract it from 15.5 MHz, and get 5 to 5.5 MHz

For 20, you would take the 14 to 14.5 MHz range, subtract 9 MHz from it, and get 5 to 5.5 MHz (Note that the 9 MHz xtal works on two bands)

For 17, you would take the 18 to 18.5 MHz range, subtract 13 MHz from it, and get 5 to 5.5 MHz

For 15, you would take the 21 to 21.5 MHz range, subtract 16 MHz from it, and get 5 to 5.5 MHz

For 12, you would take the 24.5 to 25 MHz range, subtract 19.5 MHz from it, and get 5 to 5.5 MHz

So you cover 8 ranges below 25 MHz with 7 xtals

Ten meters is left as an exercise for the reader.

For the higher frequencies, harmonics of the can be used. For example, an 8 MHz xtal could be used for 15 meters by doubling.

Here's another one:

Tunable range is 3.5 to 4.1 MHz

For 160, you would take the 2 to 1.4 MHz range, subtract it from 5.5 MHz, and get 3.5 to 4.1 MHz

For 80, the conversion section is bypassed and you use the basic tuning range

For 40, you would take the 7.5 to 6.9 MHz range, subtract it from 11 MHz, and get 3.5 to 4.1 MHz (Note that the second harmonic of the 5.5 MHz xtal used for 160 is 11 MHz)

For 30, you would take the 10.6 to 10.0 MHz range, subtract it from 14.1 MHz, and get 3.5 to 4.1 MHz

For 20, you would take the 14 to 14.6 MHz range, subtract 10.5 MHz from it, and get 3.5 to 4.1 MHz

For 17, you would take the 17.6 to 18.2 MHz range, subtract 14.1 MHz from it, and get 3.5 to 4.1 MHz (Note that the same xtal that gives you 30 meters also works on 17 meters)

For 15, you would take the 21 to 21.6 MHz range, subtract 17.5 MHz from it, and get 3.5 to 4.1 MHz

For 12, you would take the 24.5 to 25.1 MHz range, subtract 21 MHz from it, and get 3.5 to 4.1 MHz (Note that the second harmonic of the 10.5 MHz xtal used for 20 is 21 MHz)

So you cover cover 8 ranges below 25.1 MHz with 6 xtals. If you use harmonics of certain xtals, those 8 ranges can be covered with just 4 xtals.

Ten meters is left as an exercise for the reader.

There are lots of other schemes.

73 de Jim, N2EY

From -8560858342544475164
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!79g2000hsk.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
Date: Sat, 6 Sep 2008 17:50:54 -0700 (PDT)
Organization: http://groups.google.com
Lines: 40
Message-ID: <7e57e9dd-c9b4-48d2-9794-88649499944a@79g2000hsk.googlegroups.com>
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
<bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
<Pine.LNX.4.64.0809031447550.5386@darkstar.example.org> <7509c4db-2511-45f2-a4ee-f3a9e1801742@26g2000hsk.googlegroups.com>
<5f28f00d-8c15-499a-8bd2-cd053797d17a@73g2000hsx.googlegroups.com>

```
NNTP-Posting-Host: 205.188.117.200
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1220748654 21909 127.0.0.1 (7 Sep 2008 00:50:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 7 Sep 2008 00:50:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 79g2000hsk.googlegroups.com; posting-host=205.188.117.200;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
     98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-dtc-td08.proxy.aol.com[CDBC7068] (Prism/1.2.1),
     HTTP/1.1 cache-dtc-ah08.proxy.aol.com[CDBC75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:580
```

The real reason for the popularity of synthesizers is cost. When you need a new rock for every band they get costly, but a synthesizer doesn't. This wasn't practical until chips that could do most of the work became cheap.

The main reason for eliminating the commercial operator licenses was cost too. Here's what happened:

There was a time, not so long ago, when there were a large number of tasks that could only be performed (legally, anyway) by a person with an FCC Commercial Operator license. No others need apply, regardless of experience, education or background. Either you were a Radio Operator of a certain class, or you weren't.

Those licenses meant that a person with a high-school education and some smarts could have a good middle-class income if they had the license. Not that all the jobs were easy, or that you didn't need a certain amount of knowledge to do them, but that the Commercial license became the equivalent of a union card, and the jobs were, in a way, protected by FCC regulations.

In other words, the Commercial licenses protected a craft known as Radio Operators, with a set of skills and knowledge specific to them, and jobs only they could do.

The masters of industry didn't like that, so they prevailed on the FCC to reduce the requirements and eliminate most of the licenses and the requirements for tasks to be done only by Radio Operators. The jobs went with them.

This is also why the maritime services went to satellite-based comms rather than HF and MF radio and Morse Code - it eliminated the need for ships to carry licensed Radio Operators.

Oddly enough, FCC still issues Commercial RadioTelegraph licenses, both First and Second Class, though I don't know where in the USA you can get the required experience for a First Class.

73 de Jim, N2EY

```
From 111835615613863058
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news4.google.com!postnews.google.com!
z66g2000hsc.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
Date: Sat, 6 Sep 2008 18:03:52 -0700 (PDT)
Organization: http://groups.google.com
Lines: 42
Message-ID: <b501530b-5ccb-4b87-adcd-af52ea907870@z66g2000hsc.googlegroups.com>
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1220749433 24496 127.0.0.1 (7 Sep 2008 01:03:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 7 Sep 2008 01:03:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z66g2000hsc.googlegroups.com; posting-host=205.188.117.200;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
     98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-dtc-td08.proxy.aol.com[CDBC7068] (Prism/1.2.1),
     HTTP/1.1 cache-dtc-ah08.proxy.aol.com[CDBC75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:581
```

On Sep 6, 7:38=EF=BF=BDpm, raypsi <RBorow...@gmail.com> wrote:

> They want everyone dumbed down so they can be
> controlled,
> that's why they did away with code, nobody will ever know it ever
> existed in 5 years time.

They didn't do away with Morse Code. They did away with the test for it. It was done a little at a time over the past 30 years.

My personal theory on why it was eliminated is this:

Since the early 1980s, the FCC has been required to do more and more stuff with less and less resources. So they have constantly sought out ways to reduce their workload, particularly for radio services that don't bring in $$, like ham radio.

That's why they turned over the job of amateur license testing to the QPC and VECs back in 1983 or so. Instead of paid FCC employees making up and conducting amateur license tests, unpaid volunteers do almost all the work. It's also why they doubled the license term to 10 years about that same time - reduces the number of renewals by half.

Reducing the number of license classes reduces the number of tests and the number of upgrade applications to process. In the old days when there were six license classes, a ham who went from Novice or Tech to Extra could upgrade as many as four times. Now there are only two steps.

Eliminating the Morse Code test means one less license test. Less work.

But even though the last remnants of the Morse Code test were removed back in February 2007, there are still plenty of hams using it on the air. This past Field Day, for example, the group I went with had one Morse Code station and three voice stations, all similarly equipped. There were three Morse Code operators and far more voice ops, yet the Morse Code station made more QSOs than all the voice stations combined. This wasn't a surprise, either.

73 de Jim, N2EY

From -6522530388266045457
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!l42g2000hsc.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Sat, 6 Sep 2008 22:41:07 -0700 (PDT)
Organization: http://groups.google.com
Lines: 184
Message-ID: <5ef32184-3d62-41f1-ad11-ad1ce95501a8@l42g2000hsc.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
<91ebb146-390b-4f57-9ebf-700165e1dfd4@m73g2000hsh.googlegroups.com>
<91d34a93-1f80-4795-a0fd-67c4be7c6790@l42g2000hsc.googlegroups.com>
<2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com>
<eff414ad-3498-41b5-b0d3-0c8c2bc67daf@m45g2000hsb.googlegroups.com>
<4271c502-6b97-4b18-8d70-b5e05372cbc7@p25g2000hsf.googlegroups.com>
<54d91d17-c2ae-4b0d-b999-8073e161e460@79g2000hsk.googlegroups.com>
NNTP-Posting-Host: 75.190.189.120

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1220766068 11357 127.0.0.1 (7 Sep 2008 05:41:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 7 Sep 2008 05:41:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l42g2000hsc.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:582

On Sep 6, 7:57=A0pm, raypsi <RBorow...@gmail.com> wrote:
> On Sep 6, 3:18 pm, jimmi...@gmail.com wrote:
>
>
>
>
>
> > On Sep 1, 9:57 pm, jimmi...@gmail.com wrote:
>
> > > On Sep 1, 7:48 pm, raypsi <RBorow...@gmail.com> wrote:
>
> > > > On Aug 28, 8:39 pm, jimmi...@gmail.com wrote:
>
> > > > > On Aug 28, 4:02 pm, jimmi...@gmail.com wrote:
>
> > > > > > On Aug 27, 12:40 pm, raypsi <RBorow...@gmail.com> wrote:
>
> > > > > > > finally came across an article by VK3HZ that describes how to=
 make a
> > > > > > > microwave oven inverter PS work, as a stand alone supply.
> > > > > > > the link is:www.users.bigpond.net.au/dwsmith/hv_inverter.pdf
>
> > > > > > > It's only regulated from the primary side. And you can make i=
t put out
> > > > > > > anything from 2000 to 4000 VDC. but at 1300 watts.
>
> > > > > > > So all I have to do is load down the primary to fake out the =
regulator
> > > > > > > into seeing 1300 watts, Or run class A.
>
> > > > > > > The output or the input still has to be filtered
>
> > > > > > > There's an opto coupler that has to see a 110hz square wave, =
according
> > > > > > > to VK3HZ, that'll keep the supply running full tilt as long a=
s there
> > > > > > > is power supplied to the inverter.
>
> > > > > > > 73
> > > > > > > n8zu
>
> > > > > > If the circuit can be driven from 555 osc perhaps the pulse wid=
th can
> > > > > > be controlled from a feedback voltage taken off the output of t=
he
> > > > > > power supply.
> > > > > > I am thinking adding a small winding to the transformer rectify=
ing and
> > > > > > filtering it and supplying this back to control the pulse width=
 of
> > > > > > your osc.
>
> > > > > > JImmie- Hide quoted text -
>
> > > > > > - Show quoted text -
>
> > > > > I was the OP of the origonal thread about the inverter power supp=
lies.
> > > > > I was actually more interested in learning about the design of th=
e
> > > > > power supplies so I could possibly build one from scratch. With t=
he
> > > > > right information this may be easier to do than to modify one fro=
m a
> > > > > microwave oven. I am very grateful for the information. I have a
> > > > > couple of the Panasonic power supplies unfortunately they dont wo=
rk
> > > > > but maybe I can repair them now that I have a schematic. Informat=
ion
> > > > > on the transformer would be a good thing to have as I am sure it =
could
> > > > > be optimized for the desired output voltage and current needed fo=
r an
> > > > > amateur amplifier.
>
> > > > > With the current transformer on the front end I am guessing this =
may
> > > > > be the feedback path for regulation. That is to say the power sup=
ply
> > > > > is being controlled by the amount of current that is being drawn =
on
> > > > > the input side of the power supply. If this is the case maybe thi=
s
> > > > > input can be taken of the out put of the power supply and then th=
e
> > > > > supply could be voltage regulated instead of being power regulate=
d.
>
> > > > > Jimmie- Hide quoted text -
>
> > > > > - Show quoted text -
>
```

> > > > Hey Jimmie
>
> > > > I suppose =A0that you could use the duty cycle feature of this supp=
ly to
> > > > control the output
> > > > but I'd need a bank of 450WVDC caps to supply filtering.
> > > > So say the power of the amp drops: the supply will compensate by
> > > > increasing the voltage.
>
> > > .
>
> > > > But with feedback I could drop the duty cycle thru the opto coupled
> > > > input. Thus causing a drop in voltage which the filter would handle=
.
> > > > By running the inverter at another lower duty cycle I can control t=
he
> > > > output voltage.
>
> > > > I would suggest at least a bank of 16, 450WVDC for a little head ro=
om.
> > > > Plus that would take out the 120 cycle ripple.
>
> > > > 73
>
> > > > n8zu- Hide quoted text -
>
> > > > - Show quoted text -
>
> > > Thats pretty much my idea.
> > > In radars something very similar to develop 6KV to charge the PFN. If
> > > you could analyze the circuit where the current sample is picked off
> > > the AC mains that would tell us a lot about what would be needed to
> > > develop the proper feedback signal off of the switching transformer.
> > > Unfortunately I am without power supply at the moment. Well I have on=
e
> > > but my wife has forbid me to touch it. That is her primary cooking
> > > device As Dave idicated the rectifiers for the output of the pwer
> > > supply are configured as a doubler and it could be configured as a
> > > bridge if you wanted lower voltage. I am thinking maybe(a lot of
> > > supposig here) this thing may be configured from 1500 to nearly 5kv b=
y
> > > using a combination af feedback adjustment and rectifier
> > > configuration.
>
> > > I agree with about the caps,
>
> > > I emailed Dave and he pretty much agrees with my idea at least in
> > > theory but he has dropped the project at least for now.
>
> > > didnt you say you had a source for these power supplies.
>
> > > Anyone who gets this to work would surely have some serious ham radio
> > > bragging rights.

>
> > > Jimmie- Hide quoted text -
>
> > > - Show quoted text -
>
> > I have found some better schematics on the inverter. It looks like
> > modifying the power supply for amateur QRO is very plausable. Where
> > could I post them so anyone who wanted them would have access?
>
> > Jimme
>
> Do you have windows movie maker you could put it on youtube.com if
> there in some
> pix file extension like jgp or gif. I had a single pix that I put in
> movie maker with intro caption.
> Then downloaded it to youtube. A 15 sec single frame video with intro
> caption.
>
> Thanks for bringing it up, that jarred my grey matter. I can post a
> video to you tube
> Now to figure out how to get that power supply to copy on my scanner.
>
> 73
> n8zu- Hide quoted text -
>
> - Show quoted text -

I guess you downloaded David Smiths diagram. Mine has much more
detail.
Give me an email address and I will get it to you. David Smiths
address in the article is good and he wants a dialog with anyone
interested in this project.
I think the 3 of us need to get together and compare notes and draw in
as many other people into this project as we can. I have about given
up on finding another microwave at the thrift store that uses an
inverter. I guess I will just bite the bulllet and buy one. I have a
few experiments I want to do.

Jimmie

From 8336308739084821034
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.cpinternet!news.posted.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 07 Sep 2008 00:46:51 -0500
Date: Sun, 07 Sep 2008 00:52:26 -0500
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)

```
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
     <91ebb146-390b-4f57-9ebf-700165e1dfd4@m73g2000hsh.googlegroups.com>
     <91d34a93-1f80-4795-a0fd-67c4be7c6790@l42g2000hsc.googlegroups.com>
     <2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com>
     <eff414ad-3498-41b5-b0d3-0c8c2bc67daf@m45g2000hsb.googlegroups.com>
<4271c502-6b97-4b18-8d70-b5e05372cbc7@p25g2000hsf.googlegroups.com>
In-Reply-To: <4271c502-6b97-4b18-8d70-b5e05372cbc7@p25g2000hsf.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <xcSdnWqxlJtW917VnZ2dnUVZ_tjinZ2d@posted.cpinternet>
Lines: 14
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-65t2FF4J8SZM65z/
YQwPhKyd6GkA9txMLp1b9IZJr5TaOawiCtI8MwFjIG8SYa87xjGmWXamT4/R814!
nzeSuL91bxmldVaqBz5fm88qCqOS47vjZk+24Of37C8oTsC6W3ozDsNARUT+wBJml3yAY90oaMPg!1cgh/
WOfm0Pq+y3wXbFKqQ==
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:583

jimmie68@gmail.com wrote:

<snip>
> I have found some better schematics on the inverter. It looks like
> modifying the power supply for amateur QRO is very plausable. Where
> could I post them so anyone who wanted them would have access?

Please email me at 'msg _at_ cybertheque _dot_ org; I'd be happy
to put any data you have into a web page.  I have been pondering
building a HV SMPS for years based on PC PSU parts and have
been following threads in this N.G. on the oven PSU with interest.

Michael




From -8317874900794369153
X-Google-Thread: fcc6e,a2bdc517d85e5a4e,start
X-Google-Thread: 11480d,a2bdc517d85e5a4e,start
X-Google-Thread: 108122,a2bdc517d85e5a4e,start
X-Google-Thread: fc2a5,a2bdc517d85e5a4e,start
X-Google-Thread: 10b9c8,a2bdc517d85e5a4e,start
X-Google-Attributes:
gidfcc6e,gid11480d,gid108122,gidfc2a5,gid10b9c8,domainid0,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!news-out.readnews.com!transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1218089100@panix.com>
Followup-To: poster
Date: 7 Sep 2008 02:05:02 -0400
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 10 Oct 2008 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1220767501@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1220767503 11734 166.84.1.2 (7 Sep 2008 06:05:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 7 Sep 2008 06:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
X-Original-Bytes: 2655
Xref: g2news1.google.com rec.radio.amateur.antenna:2940 rec.radio.amateur.dx:121 rec.radio.amateur.equipment:547 rec.radio.amateur.homebrew:584 rec.radio.info:221

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

```
From 6858959381664925358
X-Google-Thread: fc2a5,756c67c66d95c3d3,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!w24g2000prd.googlegroups.com!not-for-
mail
From: roseeehh@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: =?KOI8-R?B?jY2NIElOVEVSTkFUSU9OQUwgSE9URUxTjY2N?=
Date: Sun, 7 Sep 2008 07:05:07 -0700 (PDT)
Organization: http://groups.google.com
Lines: 5
Message-ID: <0139e479-05c0-48d5-b774-78172f7857f0@w24g2000prd.googlegroups.com>
NNTP-Posting-Host: 117.197.198.44
Mime-Version: 1.0
Content-Type: text/plain; charset=KOI8-R
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1220796308 8597 127.0.0.1 (7 Sep 2008 14:05:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 7 Sep 2008 14:05:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w24g2000prd.googlegroups.com; posting-host=117.197.198.44;
     posting-account=ijxLIwoAAABMTgwMO6Mqd1hlyXuKMNuT
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
     SV1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:585
```

=8D=8D=8D INTERNATIONAL HOTELS=8D=8D=8D

----

http://internationalhotelsdetail.blogspot.com

From 1772241012641693414

```
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
26g2000hsk.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
Date: Sun, 7 Sep 2008 09:51:40 -0700 (PDT)
Organization: http://groups.google.com
Lines: 21
Message-ID: <d135b264-b868-4027-9658-15ec1c5d2559@26g2000hsk.googlegroups.com>
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
     <bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
     <Pine.LNX.4.64.0809031447550.5386@darkstar.example.org> <7509c4db-2511-45f2-
a4ee-f3a9e1801742@26g2000hsk.googlegroups.com>
     <5f28f00d-8c15-499a-8bd2-cd053797d17a@73g2000hsx.googlegroups.com>
     <b501530b-5ccb-4b87-adcd-af52ea907870@z66g2000hsc.googlegroups.com>
NNTP-Posting-Host: 76.226.207.25
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1220806300 8115 127.0.0.1 (7 Sep 2008 16:51:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 7 Sep 2008 16:51:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 26g2000hsk.googlegroups.com; posting-host=76.226.207.25;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:586

On Sep 6, 9:03=A0pm, N...@aol.com wrote:
 > They didn't do away with Morse Code. They did away with the test
for
> it. It was done a little at a time over the past 30 years.
hey jim:
Sorry I wasn't talking Morse code, .
Real Morse code nobody knows. That is lost already gone kaput history.
Vail invented the code you so aptly call Morse, So it's not real Morse
code
it's Vail code. What is really lost: everybody still calls it Morse
code.

I think I could make some money fire up the ole solar powered kiln and
start growing quartz.
I break out that old ARRL handbook that tells you exactly how to cut
the crystals
for the desired frequencies and sell them for 50 cent apiece.
I'd make so much money in volume sales.

73 OM
```

n8zu

```
From -2426146133107202426
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!w7g2000hsa.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Sun, 7 Sep 2008 10:05:31 -0700 (PDT)
Organization: http://groups.google.com
Lines: 28
Message-ID: <60f04717-818a-47b7-8aa5-a879bb551155@w7g2000hsa.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
     <91ebb146-390b-4f57-9ebf-700165e1dfd4@m73g2000hsh.googlegroups.com>
     <91d34a93-1f80-4795-a0fd-67c4be7c6790@l42g2000hsc.googlegroups.com>
     <2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com>
     <eff414ad-3498-41b5-b0d3-0c8c2bc67daf@m45g2000hsb.googlegroups.com>
     <4271c502-6b97-4b18-8d70-b5e05372cbc7@p25g2000hsf.googlegroups.com>
     <xcSdnWqxlJtW917VnZ2dnUVZ_tjinZ2d@posted.cpinternet>
NNTP-Posting-Host: 75.190.189.120
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1220807131 10988 127.0.0.1 (7 Sep 2008 17:05:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 7 Sep 2008 17:05:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w7g2000hsa.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:587

On Sep 7, 1:52=A0am, msg <msg@_cybertheque.org_> wrote:
> jimmi...@gmail.com wrote:
>
> <snip>
>
> > I have found some better schematics on the inverter. It looks like
> > modifying the power supply for amateur QRO is very plausable. Where
> > could I post them so anyone who wanted them would have access?
>
> Please email me at 'msg _at_ cybertheque _dot_ org; I'd be happy
> to put any data you have into a web page. =A0I have been pondering
> building a HV SMPS for years based on PC PSU parts and have
> been following threads in this N.G. on the oven PSU with interest.
>
> Michael
```

Its in the mail.
I think if you had transformer from a microwave oven that a circuit
based on a PC power supply would be doable.
The panasonic uwave uses IGBTs instead of FETS or bipolars the way the
PC power supplies do. I think the use of IGBTs is a good idea given
the voltages and currents.
The uwave inverte also operates at 30Khz with the PC operates at about
12Khz.

Jimmie

Jimmie

```
From 7954888424782683592
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!t54g2000hsg.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
Date: Sun, 7 Sep 2008 10:43:01 -0700 (PDT)
Organization: http://groups.google.com
Lines: 36
Message-ID: <c21d8dce-3202-4680-899e-b877a2dfffbf@t54g2000hsg.googlegroups.com>
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
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X-Complaints-To: groups-abuse@google.com
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     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:588
```

On Sep 6, 8:31=A0pm, N...@aol.com wrote:
> On Sep 2, 4:12 pm, Gary@ removenospamandputkf9cm.com wrote:
>
> > I am looking for some Heterodyne conversion crystals for a receiver I a=
m
> > making.
> > The frequencies are: 5 MHz, 7 MHz, 10.5 MHz, 13.5 MHz, 17.5 MHz and 21.=
5

```
> > MHz.
> > The variable mixing frequency will be from 3 to 3.5 MHz. I would prefer=
 all
> > the same type holder.
>.
>
> 73 de Jim, N2EY

What you ain't got no IF?
All those fine numbers and no IF
You know what the image frequency is with no IF?

I think he can get's 12 and 15 meters.
21.5+3.39=3D24.89 the bottom of the 12 meter band.
21.5+3.49=3D24.99 the top of the 12 meter band
17.5+3.5=3D21.0 the bottom of 15 meters for an extra
squeeze the tuning range to 3.95 and
17.5+3,95 =3D21.45 the top of the 15 meter band.

Back in the day the reason for Heterodyne was simple
to get a lower frequency at which you could amplify the signal
more readily getting you more SN ratio and selectivity.


73 OM

n8zu




From 1017470652010543331
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.acm.uiuc.edu!
news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
Date: Sun, 7 Sep 2008 14:43:55 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 54
Sender: et472@220-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.0809071438030.10097@darkstar.example.org>
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NNTP-Posting-Host: 220-215-235-64-ppp.3menatwork.com
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X-Complaints-To: complaints@ncf.ca
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In-Reply-To: <d135b264-b868-4027-9658-15ec1c5d2559@26g2000hsk.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:589

  This message is in MIME format.  The first part should be readable text,
  while the remaining parts are likely unreadable without MIME-aware tools.

--8323328-881106943-1220813035=:10097
Content-Type: TEXT/PLAIN; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: QUOTED-PRINTABLE

On Sun, 7 Sep 2008, raypsi wrote:

> On Sep 6, 9:03=A0pm, N...@aol.com wrote:
> > They didn't do away with Morse Code. They did away with the test
> for
>> it. It was done a little at a time over the past 30 years.
> hey jim:
> Sorry I wasn't talking Morse code, .
> Real Morse code nobody knows. That is lost already gone kaput history.
> Vail invented the code you so aptly call Morse, So it's not real Morse
> code
> it's Vail code. What is really lost: everybody still calls it Morse
> code.
>
> I think I could make some money fire up the ole solar powered kiln and
> start growing quartz.
> I break out that old ARRL handbook that tells you exactly how to cut
> the crystals
> for the desired frequencies and sell them for 50 cent apiece.
> I'd make so much money in volume sales.
>
Nobody has ground their crystals from scratch since about the 1930's,
if even then.  I've been licensed since 1972 and in all the time since
then I've never seen anything about it, not in magazines and books
going back to the late 1940's and not in more recent material.  I do
recall the 1964 article in QST about a buy in SOuth America who made
his own tubes.

Go back far enough, and hams just needed crystals within the band.
They had relatively little need for exact frequencies.

I suspect even if the Handbook did give such details at one time,
little bits may be lost since when something is current, "everyone
knows" things that may not be obvious to someone who comes later.

Now, they need them on exact frequencies, and they want them in
nice small packages, none of those FT-243 ones that were held together
with pressure.
```

Even if you can so easily grind a piece of quartz to frequency, packaging
them will be problematic, since a sealed metal case is going to be a lot
more trouble than an FT-243 package.

Michael VE2BVW

--8323328-881106943-1220813035=:10097--

From 3675682724125355209
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com> <bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com> <Pine.LNX.4.64.0809031447550.5386@darkstar.example.org> <7509c4db-2511-45f2-a4ee-f3a9e1801742@26g2000hsk.googlegroups.com> <5f28f00d-8c15-499a-8bd2-cd053797d17a@73g2000hsx.googlegroups.com> <b501530b-5ccb-4b87-adcd-af52ea907870@z66g2000hsc.googlegroups.com> <d135b264-b868-4027-9658-15ec1c5d2559@26g2000hsk.googlegroups.com> <Pine.LNX.4.64.0809071438030.10097@darkstar.example.org>
Subject: Re: Heterodyne conversion crystals
Lines: 26
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <72Wwk.50838$4s1.48733@newsfe06.iad>
NNTP-Posting-Host: 72.192.52.79
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe06.iad 1220816131 72.192.52.79 (Sun, 07 Sep 2008 19:35:31 UTC)
NNTP-Posting-Date: Sun, 07 Sep 2008 19:35:31 UTC
Organization: Cox
Date: Sun, 7 Sep 2008 15:35:26 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:590

"Michael Black" <et472@ncf.ca> wrote in message
news:Pine.LNX.4.64.0809071438030.10097@darkstar.example.org...
On Sun, 7 Sep 2008, raypsi wrote:

> On Go back far enough, and hams just needed crystals within the band.
They had relatively little need for exact frequencies.

And Novice regulations required the use of Xtal control, a ready
market...

I suspect even if the Handbook did give such details at one time, little bits may be lost since when something is current, "everyone knows" things that may not be obvious to someone who comes later.

Tools, techiques, sources for raw or processed materials. WWII end provided what seemed to be an endless supply of radio related parts and equipment. Tons of FT-243 xtals, ready to use or to regrind, etc. I remember when one could find surplus 455kc xtals to make SSB filters; they are unobtanium now.

Pete, k1zjh

Michael VE2BVW

From -2178761144902119720
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Sun, 7 Sep 2008 22:59:39 +0200 (CEST)
Organization: Mostly In Piles
Lines: 22
Message-ID: <Xns9B12A2B424C882MDWN@194.177.96.78>
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X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news1.google.com rec.radio.amateur.homebrew:591

I'm fairly sure is a zero voltage switching converter with active voltage clamp. The series inductor and the 4uF capacitor form a harmonic filter. The resonant switching circuit is the capacitor in series with the upper switch, the primary inductance of the transformer and the capacitor in parallel with the transformer.

So it can be devolved into a single switch feed forward converter function from the lower switch and resonant energy recovery by the upper switch... which results in a quasi push-pull output.

Search patents by E. Miyata in USPTO for more details.

Considering it's purpose, I'd expect this design's output power
is probably in the neighborhood of 750W. Don't confuse this with
the name plate rating. Of course the designer didn't consider
ICAS service so YMMV.

```
From 3156076929171863151
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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d77g2000hsb.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
Date: Sun, 7 Sep 2008 17:46:27 -0700 (PDT)
Organization: http://groups.google.com
Lines: 56
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     98),gzip(gfe),gzip(gfe)
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     HTTP/1.1 cache-dtc-ah08.proxy.aol.com[CDBC75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:592
```

On Sep 7, 2:43=EF=BF=BDpm, Michael Black <et...@ncf.ca> wrote:
>
> Nobody has ground their crystals from scratch
> since about the 1930's,
> if even then. =EF=BF=BDI've been licensed since 1972 and in all the time
> since
> then I've never seen anything about it, not in magazines and books
> going back to the late 1940's and not in more recent material.

There were articles in QST in the 1920s about cutting and grinding
your own crystals from the raw quartz, making holders, etc. A lot of
work and specialized equipment. The market was such that the
specialists quickly took over in the early 1930s.

After WW2 the enormous amount of surplus dominated the amateur market
for decades. Many of the "new" FT-243 crystals we bought were actually
surplus holders with new crystal inside.

>=EF=BF=BDI do
> recall the 1964 article in QST about a buy in SOuth America who
> made his own tubes.

There's a guy in France doing it today. Has a movie on his website.
But again, lots of work and specialized equipment.

> Go back far enough, and hams just needed crystals within
> the band.
> They had relatively little need for exact frequencies.

Well, yes and no.

Some xtal frequencies were more prized than others, because the
harmonics fell in higher bands.

> I suspect even if the Handbook did give such details at one time,
> little bits may be lost since when something is current, "everyone
> knows" things that may not be obvious to someone who comes
> later.

That's true of many things. Reading older radio books and magazines
can require knowledge of a lot of the jargon and methods of the day.
>
> Now, they need them on exact frequencies, and they want them in
> nice small packages, none of those FT-243 ones that were held
> together with pressure.

The big difference is plated electrodes vs. pressure electrodes.
FT-243s are capable of quite good accuracy; .005% was common, which
works out to 200 Hz at 4 MHz.

Pre-WW2 xtals were big and rugged, but used a lot of quartz. Radio-grade natural quartz came almost exclusively from Brazil, and the
difficulty of supply caused US xtal makers to develop xtal designs

that used less quartz. The FT-243 was ultra-miniature in its time!

73 de Jim, N2EY

From -7529006903232806726
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Mon, 8 Sep 2008 03:11:23 +0200 (CEST)
Organization: Mostly In Piles
Lines: 14
Message-ID: <Xns9B12CD624FE752MDWN@194.177.96.78>
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X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news1.google.com rec.radio.amateur.homebrew:593

> Search patents by E. Miyata in USPTO for more details.

I had a nagging feeling that I'd disremembered the circuit
Miyata developed and tried to look it up. Must be an IEEE
paper since there's no patent in his name that I can find.

But these patents may help: 6936803 and 6884977

This paper seems to describe a circuit close to that oven converter.
http://yakimov.homeftp.net/banditko/books/not_books/ieee%20articles%20from%20ieeexplore/01217760.pdf

From -2939883890669917668
X-Google-Thread: fc2a5,e69d33ee065dd08a
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X-Google-Language: ENGLISH,ASCII-7-bit
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feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!aioe.org!not-for-

mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Mon, 8 Sep 2008 04:18:38 +0200 (CEST)
Organization: Mostly In Piles
Lines: 26
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X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news1.google.com rec.radio.amateur.homebrew:594

It would be interesting to know the phasing of the transformer windings.

Since it's voltage fed and there is no output inductor I would have guessed it was a ZVS flyback supply with active recovery of the leakage inductance energy. A flyback is a constant power output topology by nature, so it's a natural for powering a magnetron. But the waveform in the pdf concering the oven looks like a forward converter. Maybe it's the result of the active clamp?

I've designed flyback converters with outputs of a couple KW for TWT tubes but they were hard switched with multiple rectified outputs on the transformer stacked series to reduce the voltage stress. At low output voltages a flyback is unsuitable for much power because of the high peak current developed in the rectifiers and switches.

Sorry to babble on about this but I found the oven circuit fascinating. The white goods guys are very clever.

I hope you can get it working as a power supply for your amplifier.

From 2756944712663770647
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet

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X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!postnews.google.com!
d77g2000hsb.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
Date: Sun, 7 Sep 2008 20:37:19 -0700 (PDT)
Organization: http://groups.google.com
Lines: 75
Message-ID: <8c76492e-23be-4c43-a9a5-8beb24ad8a45@d77g2000hsb.googlegroups.com>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:595
```

On Sep 7, 8:46=A0pm, N...@aol.com wrote:
> On Sep 7, 2:43 pm, Michael Black <et...@ncf.ca> wrote:
>
>
>
> > Nobody has ground their crystals from scratch
> > since about the 1930's,
> > if even then. I've been licensed since 1972 and in all the time
> > since
> > then I've never seen anything about it, not in magazines and books
> > going back to the late 1940's and not in more recent material.
>
> There were articles in QST in the 1920s about cutting and grinding
> your own crystals from the raw quartz, making holders, etc. A lot of
> work and specialized equipment. The market was such that the
> specialists quickly took over in the early 1930s.
>
> After WW2 the enormous amount of surplus dominated the amateur market
> for decades. Many of the "new" FT-243 crystals we bought were actually

> surplus holders with new crystal inside.
>
> > I do
> > recall the 1964 article in QST about a buy in SOuth America who
> > made his own tubes.
>
> There's a guy in France doing it today. Has a movie on his website.
> But again, lots of work and specialized equipment.
>
> > Go back far enough, and hams just needed crystals within
> > the band.
> > They had relatively little need for exact frequencies.
>
> Well, yes and no.
>
> Some xtal frequencies were more prized than others, because the
> harmonics fell in higher bands.
>
> > I suspect even if the Handbook did give such details at one time,
> > little bits may be lost since when something is current, "everyone
> > knows" things that may not be obvious to someone who comes
> > later.
>
> That's true of many things. Reading older radio books and magazines
> can require knowledge of a lot of the jargon and methods of the day.
>
>
>
> > Now, they need them on exact frequencies, and they want them in
> > nice small packages, none of those FT-243 ones that were held
> > together with pressure.
>
> The big difference is plated electrodes vs. pressure electrodes.
> FT-243s are capable of quite good accuracy; .005% was common, which
> works out to 200 Hz at 4 MHz.
>
> Pre-WW2 xtals were big and rugged, but used a lot of quartz. Radio-
> grade natural quartz came almost exclusively from Brazil, and the
> difficulty of supply caused US xtal makers to develop xtal designs
> that used less quartz. The FT-243 was ultra-miniature in its time!
>
> 73 de Jim, N2EY

Absolutely jim

Looky at the January 1934 issue of QST.it's all there.
A yl friend of mine told me bigger is better, I know she's right
even when it comes to crystals.

As far as accuracy goes you know you can pull it to the frequency you
want
if your'e close enough, it's the oven you need to keep em on
frequency.

```
73 OM
n8zu


From -3754215385992135610
X-Google-Thread: fc2a5,e69d33ee065dd08a
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a1g2000hsb.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Sun, 7 Sep 2008 21:21:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 47
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Xref: g2news1.google.com rec.radio.amateur.homebrew:596

On Sep 7, 10:18=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> It would be interesting to know the phasing of the
> transformer windings.
>
> Since it's voltage fed and there is no output inductor
> I would have guessed it was a ZVS flyback supply with
> active recovery of the leakage inductance energy. =A0A
> flyback is a constant power output topology by nature,
> so it's a natural for powering a magnetron. =A0But the
> waveform in the pdf concering the oven looks like a
```

> forward converter. =A0Maybe it's the result of the active
> clamp?
>
> I've designed flyback converters with outputs of a couple
> KW for TWT tubes but they were hard switched with multiple
> rectified outputs on the transformer stacked series to
> reduce the voltage stress. =A0At low output voltages a flyback
> is unsuitable for much power because of the high peak current
> developed in the rectifiers and switches.
>
> Sorry to babble on about this but I found the oven circuit
> fascinating. =A0The white goods guys are very clever.
>
> I hope you can get it working as a power supply for your
> amplifier.

I have my doubts about using it as is too, but I think there is a lot to learn here.
For example I hae never used IGBTs before and already I hae begun to learn. This may also be a chance for me to learn to design a transformer that will work at 30Khz. I was thinking of using push-pull driver on the primay of the transformer instead of the flyback circuit. Something similar to a PC power supply. The Panasonic power supply is definately designed for constant current. The input current is monitored through a current transformer and this applied to the contol circuit so that a decrease in input current results in a greater output voltage through pulse width modulation. The plan is to take this feedback from a coil on the output transformer instead of the current transformer and apply it to the control circuit. I am hoping this will turn the constant current power supply into a voltage regulated power supply. Also the output rectifiers use a voltage doubler. My plan is to change this to a full wave bridge, I think David mentioned this too. I may not get full legal power out of it but maybe I can power a couple of 4cx250s. That wouldnt be bad for a $50 power supply.

Jimmie

From -4951597359542866838
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From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Mon, 8 Sep 2008 07:13:48 +0200 (CEST)
Organization: Mostly In Piles
Lines: 69
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<Xns9B12CD624FE752MDWN@194.177.96.78> <Xns9B12D8C833BE02MDWN@194.177.96.78>
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X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news1.google.com rec.radio.amateur.homebrew:597

If it's a flyback then push-pull drive won't provide enough voltage. In a flyback the E*T products of each half cycle have to be equal or the transformer saturates. You see a flyback transformer isn't really a transformer. It's a coupled inductor. The switch charges the core then the core discharges into the secondary. Current doesn't flow in both primary and secondary at the same time.

So the output voltage isn't a function of the turns ratio but of the ratio of switch's on and off times. A flyback with voltage feedback control regulates the output voltage regardless of the turns ratio. Other considerations demand more turns for high output voltages, mainly the secondary voltage is reflected to the primary and added to the input bus increasing voltage stress on the switch. The primary turns are determined by the factors effecting core saturation.

All this leads me back around to thinking it's a single ended forward converter with resonant reset into the seconday.

Even if it is some form of ZVS flyback it may be possible to convert the oven power supply to a voltage regulated converter with either a voltage divider on the output or a voltage sensing winding with fewer turns. Because the volts per turn in the secondaries are fixed by the control this works well. If the sense winding has 100 times fewer turns the voltage developed by it will be 100 times less. There are some errors due to imperfect coupling between the windings and the rectifiers Vf but these can be tweaked out enough to get the regulation down about 3% with some reasonable minimim load maintained.

There is another topology called a fly-forward that transfers energy during both the off and on times of the switch to the secondary. It's bascially a single ended forward converter that resets the magnetizing energy into the secondary in flyback mode. I'm convinced the oven uses resonant switching though so I doubt that's being used here.

The reason for the very small input filter capacitor is power factor. With the small filter capacitor the line current follows the envelop of the switch current. If the duty cycle is constant over a half cycle then the current waveform is determined by the line voltage and then you have nice haversines of current drawn from the line. If the voltage control circuit response is fast, then the current will be distorted. With a larger input filter capacitor the current will look like the typical uncorrected SMPS with a capacitor input and draw huge current spikes at the peak of the line as the capacitor is charged. Then you must draw less power from the line to account for the low power factor. The input rectifier might have to be beefed up as well and more agressive inrush limiting would be needed too.

I hope it's a forward converter then the transformer would be very handy. I may have to start snagging ovens from the curb side on trash day. I have a bucket full of 4CX250B (really, a bucket full) waiting for a home.

And yes, IGBT's rock.

From -3455327604810398271
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From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
Date: Sun, 07 Sep 2008 22:33:40 -0700
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X-Newsreader: Forte Agent 1.91/32.564
Xref: g2news1.google.com rec.radio.amateur.homebrew:598

N2EY@aol.com wrote:

>My personal theory on why it [code test] was eliminated is this:
>Since the early 1980s, the FCC has been required to do more and more
>stuff with less and less resources. So they have constantly sought out
>ways to reduce their workload, particularly for radio services that
>don't bring in $$, like ham radio.

And another theory is that the code mode is simply obsolete so why test
for it. No more horse driving government tests either. Course
for people who like it, they can still work CW and drive horses.

>But even though the last remnants of the Morse Code test were removed
>back in February 2007, there are still plenty of hams using it on the
>air.

Yea, but there's less and less each year as the old guys die off. I know
you work CW so you know that the vast majority of your CW QSOs are with
people in their 60's and over. One foot in the proverbial grave.

>This past Field Day, for example, the group I went with had one
>Morse Code station and three voice stations, all similarly equipped.
>There were three Morse Code operators and far more voice ops, yet the
>Morse Code station made more QSOs than all the voice stations
>combined. This wasn't a surprise, either.

You don't really call those guys with the computers and keyboards
who ruin the CW bands on contest weekends CW ops do you ???


From 2736551383120245826
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From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Mon, 8 Sep 2008 03:46:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 87
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Xref: g2news1.google.com rec.radio.amateur.homebrew:599

On Sep 8, 1:13 am, Grumpy The Mule <s_foo...@foo.bar> wrote:
> If it's a flyback then push-pull drive won't
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>
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>
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> to convert the oven power supply to a voltage regulated
```

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> curb side on trash day. I have a bucket full of 4CX250B
> (really, a bucket full) waiting for a home.
>
> And yes, IGBT's rock.

I agree it's not a flyback.

I don't think it's resonant converter because you looky at VK3HZ's
data on loading it, the duty cycle would take it way out of resonant.

As for power factor with lots of input capacitor filtering, a double
pi AC filter
with toroids would smooth the fawk out of any huge SMPS input
capacitor filter.
When I put a triple pi toroid on the AC line to my 500 watt SMPS
computer
tower, what a big difference, knocked out all kinds of harmonics and

spikes.
And reduce my electric bill. Is that like stealing from the electric
co?

73
n8zu

```
From 3321462974009610642
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c65g2000hsa.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
Date: Mon, 8 Sep 2008 04:19:03 -0700 (PDT)
Organization: http://groups.google.com
Lines: 76
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Xref: g2news1.google.com rec.radio.amateur.homebrew:600
```

On Sep 8, 1:33=EF=BF=BDam, AJ Lake <nom...@fakeaddress.com> wrote:
> N...@aol.com wrote:
> >My personal theory on why it [code test] was eliminated is this:
> >Since the early 1980s, the FCC has been required to do more and more
> >stuff with less and less resources. So they have constantly sought out
> >ways to reduce their workload, particularly for radio services that
> >don't bring in $$, like ham radio.
>

> And another theory is that the code mode is simply obsolete so why test
> for it. No more horse driving government tests either. Course
> for people who like it, they can still work CW and drive horses.

That theory doesn't hold water because Morse Code isn't obsolete on
the HF/MF ham bands. You hear a lot more hams using Morse Code on
those bands than you see people riding or driving horses.

A much more reasonable theory would be that most states do not test a
driver's ability to operate a manual transmission.
>
> >But even though the last remnants of the Morse Code test were removed
> >back in February 2007, there are still plenty of hams using it on the
> >air.
>
> Yea, but there's less and less each year as the old guys die off.

That doesn't seem to be happening. Groups such as FISTS and SKCC have
increasing numbers of members. Participation in contests using Morse
Code isn't declining increasing even with terrible sunspot numbers.
Look at the results of the ARRL 160 meter contest for the past several
years - and it's all-CW.

> I know
> you work CW so you know that the vast majority of your CW QSOs are with
> people in their 60's and over.

No, they're not. Sure there are lots of hams who are senior citizens
but there are also a lot who aren't - and who use Morse Code on the
air.

Plus the whole US population is getting older. People are living
longer and having fewer kids, for one thing. The median age for US
residents back in 2000 was 39 years and some months (according to the
Census Bureau). And it keeps increasing.

One foot in the proverbial grave.

How old are *yiu*? I'm 54, been a ham 41 years.

What led me to my theory is that the FCC didn't just drop the Morse
Code tests, they simplified and reduced all the testing as well as the
administrative procedures. For almost 30 years, every change was in
the direction of making less work for FCC, to save resources.

> >This past Field Day, for example, the group I went with had one
> >Morse Code station and three voice stations, all similarly equipped.
> >There were three Morse Code operators and far more voice ops, yet the
> >Morse Code station made more QSOs than all the voice stations
> >combined. This wasn't a surprise, either.
>
> You don't really call those guys with the computers and keyboards
> who ruin the CW bands on contest weekends CW ops do you ???

Why not? All the computer does is keep the log and maybe call CQ. The 'phone stations had the same computer logging system, all networked to a central server. Yet the CW ops outdid them easily.

As for "ruining the CW bands" - the only "CW bands" in Part 97 are the bottom 100 kHz of 6 and 2 meters. All the other bands where CW is allowed share the space with other modes, such as RTTY and PSK31.

It's just beautiful when the bands are full of hams making QSOs. Not "ruined" at all.

73 de Jim, N2EY

```
From -8726430856574737956
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.cpinternet!news.posted.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Sep 2008 10:03:09 -0500
Date: Mon, 08 Sep 2008 10:08:45 -0500
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
     <91ebb146-390b-4f57-9ebf-700165e1dfd4@m73g2000hsh.googlegroups.com>
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     <eff414ad-3498-41b5-b0d3-0c8c2bc67daf@m45g2000hsb.googlegroups.com>
     <4271c502-6b97-4b18-8d70-b5e05372cbc7@p25g2000hsf.googlegroups.com>
     <xcSdnWqxlJtW917VnZ2dnUVZ_tjinZ2d@posted.cpinternet>
<60f04717-818a-47b7-8aa5-a879bb551155@w7g2000hsa.googlegroups.com>
     <Xns9B12A2B424C882MDWN@194.177.96.78> <Xns9B12CD624FE752MDWN@194.177.96.78>
     <Xns9B12D8C833BE02MDWN@194.177.96.78> <0d347e43-d718-4f8c-
a1da-620c2a60a472@a1g2000hsb.googlegroups.com>
<Xns9B13256B78F62MDWN@194.177.96.78> <4c85e482-d4e9-4553-
aed7-7de32f2e9786@c65g2000hsa.googlegroups.com>
In-Reply-To: <4c85e482-d4e9-4553-aed7-7de32f2e9786@c65g2000hsa.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <2eGdnflJqPAwo1jVnZ2dnUVZ_h-dnZ2d@posted.cpinternet>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.251.177.106
```

X-Trace: sv3-
PnKVSUmFNedlBqjXDYVe3bKCQrmeOn8zb6qIZk7RxTempHc7OKOn5YbidZ33tPsglI1CsZQnEMVMafm!
WIExssLB9iFQYIwb9JNM/lrc5CWVeQT+5DImor1gUd3wr+3d8wpu2L93cTufsmWJHOCjQN8xXPQs!
PZfMNM7foH/V37Dz3no7Gg==
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:601

raypsi wrote:

<snip>
> I agree it's not a flyback.
>
> I don't think it's resonant converter because you looky at VK3HZ's
> data on loading it, the duty cycle would take it way out of resonant.
>

Thanks to jimmie for the PDF service manual; inspection of the schematics shows differences between the block diagram (which seems to show a resonant configuration) and the inverter detail schematic (which shows a voltage doubler configuration). There are also mistakes in wiring runs (circuit box outlines confused as wires and having cross-connect dots misplaced, etc.). After accounting for these, the above assumptions seem correct.

A quick web search for inverter microwave ovens seems to yield only Panasonic models, and the cheapest in my area is $158.00 at Walmart. To me, this isn't really cost-effective, and they are too new to be found in the alley. I intend to continue to explore utilizing PC PSU parts to build an HV supply.

Michael

From -5816448125763489256
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!aioe.org!not-for-mail
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
Date: Mon, 08 Sep 2008 09:33:14 -0700
Organization: Aioe.org NNTP Server
Lines: 32
Message-ID: <bpgac45i0hkk6afei7ve2338u3h4q9un6f@4ax.com>
References: <bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
<Pine.LNX.4.64.0809031447550.5386@darkstar.example.org> <7509c4db-2511-45f2-a4ee-

f3a9e1801742@26g2000hsk.googlegroups.com> <5f28f00d-8c15-499a-8bd2-
cd053797d17a@73g2000hsx.googlegroups.com> <b501530b-5ccb-4b87-adcd-
af52ea907870@z66g2000hsc.googlegroups.com>
<f9e9c4lcg5v75eaiil9ucns4k93uk7gime@4ax.com> <994d3a07-ce3f-4e15-a9c3-
f230df91c986@c65g2000hsa.googlegroups.com>
NNTP-Posting-Host: hSgUdE1qkWL2GDcXQDk/hg.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Agent 1.91/32.564
Xref: g2news1.google.com rec.radio.amateur.homebrew:602

N2EY@aol.com wrote:

>That theory doesn't hold water because Morse Code isn't obsolete on
>the HF/MF ham bands.

The code may be fun to use as a *hobby* but it is obsolete
as in the dictionary definition: to become disused, old fashioned,
and no longer up to date.

The FCC (and the rest of the world) just recognized that
 requiring people to become human modems to
get a ham license didn't make sense. Maybe it did in WW2
 when a pool of human CW ops was needed, but certainly not now.

>Groups such as FISTS and SKCC have
>increasing numbers of members.

You won't win this one on the numbers. Do you really
think the number of active CW ops today compares
with the numbers there were in the 50s?

>Participation in contests using Morse Code isn't declining...

No unfortunately contests are just as bad as ever.

>the only "CW bands" in Part 97 are the
>bottom 100 kHz of 6 and 2 meters.

Playing word cop is not your style, sorry to see you do it. The
'CW bands' are common ham jargon not lawyer speak. Just as
using the term CW when you mean the code mode.

From 8334210225570891995
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns11feed!worldnet.att.net!199.45.49.37!cyclone1.gnilink.net!

```
spamkiller.gnilink.net!gnilink.net!trnddc06.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
<Pine.LNX.4.64.0809031447550.5386@darkstar.example.org> <7509c4db-2511-45f2-a4ee-
f3a9e1801742@26g2000hsk.googlegroups.com>  <5f28f00d-8c15-499a-8bd2-
cd053797d17a@73g2000hsx.googlegroups.com>  <b501530b-5ccb-4b87-adcd-
af52ea907870@z66g2000hsc.googlegroups.com>
<f9e9c4lcg5v75eaiil9ucns4k93uk7gime@4ax.com> <994d3a07-ce3f-4e15-a9c3-
f230df91c986@c65g2000hsa.googlegroups.com>
<bpgac45i0hkk6afei7ve2338u3h4q9un6f@4ax.com>
Subject: Re: Heterodyne conversion crystals
Lines: 69
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <Bxgxk.752$Af3.403@trnddc06>
Date: Mon, 08 Sep 2008 21:10:57 GMT
NNTP-Posting-Host: 71.104.205.18
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc06 1220908257 71.104.205.18 (Mon, 08 Sep 2008 17:10:57 EDT)
NNTP-Posting-Date: Mon, 08 Sep 2008 17:10:57 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3054


"AJ Lake" <nomail@fakeaddress.com> wrote in message
news:bpgac45i0hkk6afei7ve2338u3h4q9un6f@4ax.com...
> N2EY@aol.com wrote:
>
> >That theory doesn't hold water because Morse Code isn't obsolete on
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>
> The code may be fun to use as a *hobby* but it is obsolete
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>
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>
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>
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>
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```

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>
> Playing word cop is not your style, sorry to see you do it. The
> 'CW bands' are common ham jargon not lawyer speak. Just as
> using the term CW when you mean the code mode.
>

You'd think that now that no one is being forced, it shouldn't be an issue. Maybe the real problem all along was people who really have a problem with other people's hobbies. You people really need to quit bashing each other's hobby. What you screw around and loose for someone else, you lose too. Obsolete is a favorite word of the salesman that wants to con you out of what you have, to sell you something else. For better or worse. So don't buy into it. You need to understand that the FCC really doesn't want to be bothered with Ham Radio at all. That's been motivating nearly everything they have done since the 70's. But, Ok a bunch of whiners screamed and cried and held their breath and now even the Extra Class is code free. Doesn't make much sense because all you get is some CW subbands anyway.

All the Anti-CW arguments could easily be used against Ham Radio in general. I don't even want to hear obsolete. I still have a manual typewriter to fill out odd forms and in case power goes out. I still have a VCR because there are movies that I don't see on DVD yet. I even use CW on VHF and above to make contacts that can't seem to be done any other way. People scream about Digital! Digital! OK WHICH DIGITAL do you use. There are more than a dozen modes out there, so how are you going to make the contact that is gone in 60 seconds because of propagation? Let me know when you have a free software package that instantly decodes ANY MODE and doesn't even require a computer or extra hardware, is operable across all bands and digs weak signals better than CW, then CW will be obsolete. The fact that CW is allowed EVERYWHERE and can be received by any SSB RCVR make it a universal mode of communications. It is also the most useful means of station identification. Don't tell me it's obsolete if you don't know anything about it.

There is a rail system in India that was set up in the 20's and is still in use because it works so well for what they use it for. They would screw up a good thing to try to replace it with anything more complex.

From -3699437612109231793
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!l64g2000hse.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited

Date: Mon, 8 Sep 2008 15:43:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 44
Message-ID: <3b5ac1cc-c1b7-4c73-948d-92fc8a40f1c4@l64g2000hse.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
     <91d34a93-1f80-4795-a0fd-67c4be7c6790@l42g2000hsc.googlegroups.com>
     <2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com>
     <eff414ad-3498-41b5-b0d3-0c8c2bc67daf@m45g2000hsb.googlegroups.com>
     <4271c502-6b97-4b18-8d70-b5e05372cbc7@p25g2000hsf.googlegroups.com>
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<60f04717-818a-47b7-8aa5-a879bb551155@w7g2000hsa.googlegroups.com>
     <Xns9B12A2B424C882MDWN@194.177.96.78> <Xns9B12CD624FE752MDWN@194.177.96.78>
     <Xns9B12D8C833BE02MDWN@194.177.96.78> <0d347e43-d718-4f8c-
a1da-620c2a60a472@a1g2000hsb.googlegroups.com>
     <Xns9B13256B78F62MDWN@194.177.96.78> <4c85e482-d4e9-4553-
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 8 Sep 2008 22:43:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l64g2000hse.googlegroups.com; posting-host=75.190.189.120;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3055

On Sep 8, 11:08=A0am, msg <msg@_cybertheque.org_> wrote:
> raypsi wrote:
>
> <snip>
>
> > I agree it's not a flyback.
>
> > I don't think it's resonant converter because you looky at VK3HZ's
> > data on loading it, the duty cycle would take it way out of resonant.
>
> Thanks to jimmie for the PDF service manual; inspection of the
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> accounting for these, the above assumptions seem correct.
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> at Walmart. =A0To me, this isn't really cost-effective, and they

> are too new to be found in the alley. =A0I intend to continue
> to explore utilizing PC PSU parts to build an HV supply.
>
> Michael

The part can be bought as a spare for about $40 or $50 dollars.
I have found a couple of them at Goodwill. I would have be tearing
into it but our 20 year old microwave finally bit the dust so my wife
put claim on this one.
I have also seen them setting on the curb on trash day. On was on my
way out and thought I would pick it up on my way back in. Didnt work
out. Since I started looking for them it seems there are two common
reasons people get rid of old microwaves. One is to have the latest ,
greatest model and the other is because the digital display quits
working. Any sort of failure out of warranty usually means a trip to
the curb.

THESE MUST BE OPERATED UNDER LOAD OR THEY WILL SMOKE.

At least that is what happend to mine.

Jimmie

From -7333157438876023041
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Tue, 9 Sep 2008 01:05:57 +0200 (CEST)
Organization: Mostly In Piles
Lines: 24
Message-ID: <Xns9B13B81E3D6952MDWN@194.177.96.78>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
<91ebb146-390b-4f57-9ebf-700165e1dfd4@m73g2000hsh.googlegroups.com>
<91d34a93-1f80-4795-a0fd-67c4be7c6790@l42g2000hsc.googlegroups.com>
<2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com>
<eff414ad-3498-41b5-b0d3-0c8c2bc67daf@m45g2000hsb.googlegroups.com>
<4271c502-6b97-4b18-8d70-b5e05372cbc7@p25g2000hsf.googlegroups.com>
<xcSdnWqxlJtW917VnZ2dnUVZ_tjinZ2d@posted.cpinternet> <60f04717-818a-47b7-8aa5-a879bb551155@w7g2000hsa.googlegroups.com> <Xns9B12A2B424C882MDWN@194.177.96.78>
<Xns9B12CD624FE752MDWN@194.177.96.78> <Xns9B12D8C833BE02MDWN@194.177.96.78>
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X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25

Xref: g2news2.google.com rec.radio.amateur.homebrew:3056

> raypsi wrote:
>
> <snip>
>> I agree it's not a flyback.
>>
>> I don't think it's resonant converter because you looky at VK3HZ's
>> data on loading it, the duty cycle would take it way out of resonant.
>>

I'm sorry, I should have been more precise in my use of terms.

It's zero voltage switching or ZVS which is resonant transition.
The resonance is much higher than the swicthing frequency and it
isn't effected by the changes in duty cycle. Although it does
steal some on-time

Sometimes it's called quasi-resonant and there's a variant called
ZCS or zero current switching.

It's not a resonant converter like series or parallel resonant
converters where the output is controlled by shifting the frequency.

From -5223727717535188556
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news4.google.com!feeder1-2.proxad.net!
proxad.net!feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!
aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Tue, 9 Sep 2008 01:13:05 +0200 (CEST)
Organization: Mostly In Piles
Lines: 24
Message-ID: <Xns9B13B9538BB5A2MDWN@194.177.96.78>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
<91d34a93-1f80-4795-a0fd-67c4be7c6790@l42g2000hsc.googlegroups.com>
<2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com>
<eff414ad-3498-41b5-b0d3-0c8c2bc67daf@m45g2000hsb.googlegroups.com>
<4271c502-6b97-4b18-8d70-b5e05372cbc7@p25g2000hsf.googlegroups.com>
<xcSdnWqxlJtW917VnZ2dnUVZ_tjinZ2d@posted.cpinternet> <60f04717-818a-47b7-8aa5-
a879bb551155@w7g2000hsa.googlegroups.com> <Xns9B12A2B424C882MDWN@194.177.96.78>
<Xns9B12CD624FE752MDWN@194.177.96.78> <Xns9B12D8C833BE02MDWN@194.177.96.78>
<0d347e43-d718-4f8c-a1da-620c2a60a472@a1g2000hsb.googlegroups.com>
<Xns9B13256B78F62MDWN@194.177.96.78> <4c85e482-d4e9-4553-
aed7-7de32f2e9786@c65g2000hsa.googlegroups.com> <2eGdnflJqPAwo1jVnZ2dnUVZ_h-

dnZ2d@posted.cpinternet> <3b5ac1cc-c1b7-4c73-948d-92fc8a40f1c4@l64g2000hse.googlegroups.com>
NNTP-Posting-Host: TXEyzoZuPbU+ry4dyiy9uA.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news1.google.com rec.radio.amateur.homebrew:606

> THESE MUST BE OPERATED UNDER LOAD OR THEY WILL SMOKE.
>
> At least that is what happend to mine.
>
> Jimmie

Oh, sorry to hear that. Yeah, it's a bad idea to operate any switch mode power supply without a minimum load unless the min. load is built-in or the thing is so inefficent that its own losses make up the minimum load. The output diodes probably didn't like that... just my guess.

I found some interesting stuff on the panasonic inverter.

On the fusor chat they claim it's 85% efficient and good for 1200W. The efficiency seems right, the 1200W seems... optimistic.

Also this, instructions on getting the inverter to play.
http://www.fusor.net/board/view.php?site=fusor&bn=fusor_hvpower&key=1162079046

From 2897782658802686544
X-Google-Thread: fc2a5,4a61f236ebeceacf,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: CW is a hobby (off topic BWTH)
Date: Mon, 08 Sep 2008 16:18:06 -0700
Organization: Aioe.org NNTP Server
Lines: 41
Message-ID: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
NNTP-Posting-Host: hSgUdE1qkWL2GDcXQDk/hg.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Agent 1.91/32.564
Xref: g2news2.google.com rec.radio.amateur.homebrew:3058

I changed the header subject to better reflect the discussion.

"JB" <nospam@goofball.net> wrote:

> You need to understand that the FCC really doesn't want to be
>bothered with Ham Radio at all.

That's probably true.

>That's been motivating nearly everything they have done since the 70's.

I think that the ARRL had more to do with the snafu's of that era. For
example incentive licensing.

>now even the Extra Class is code free.

As is the free memorization EC exam. No real electronic knowledge
required to pass.

>I still have a manual typewriter to...
>I still have a VCR because...
>I even use CW on VHF and...

Typewriters, VCRs and CW are all obsolete by todays
technical standards. Some still use them because like
you and I they like to. That doesn't make them less old
technology. (Think horse/buggy analogy)

>OK WHICH DIGITAL do you use.

Head copy.

> how are you going to make the contact that is gone in 60 seconds

I'm not. I prefer CW ragchewing. Different strokes...

>Don't tell me it's obsolete if you don't know anything about it.

Got my Novice in 57. Been doing CW ever since. But only as a hobby since
it's obsolete and not good for much else...

```
From 4773398711617181O4
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: Grumpy The Mule <s_foonly@foo.bar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
```

Date: Tue, 9 Sep 2008 01:28:44 +0200 (CEST)
Organization: Mostly In Piles
Lines: 5
Message-ID: <Xns9B13BBFB5D1832MDWN@194.177.96.78>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
<91ebb146-390b-4f57-9ebf-700165e1dfd4@m73g2000hsh.googlegroups.com>
<91d34a93-1f80-4795-a0fd-67c4be7c6790@l42g2000hsc.googlegroups.com>
<2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com>
<eff414ad-3498-41b5-b0d3-0c8c2bc67daf@m45g2000hsb.googlegroups.com>
<4271c502-6b97-4b18-8d70-b5e05372cbc7@p25g2000hsf.googlegroups.com>
<xcSdnWqxlJtW917VnZ2dnUVZ_tjinZ2d@posted.cpinternet> <60f04717-818a-47b7-8aa5-a879bb551155@w7g2000hsa.googlegroups.com> <Xns9B12A2B424C882MDWN@194.177.96.78>
<Xns9B12CD624FE752MDWN@194.177.96.78> <Xns9B12D8C833BE02MDWN@194.177.96.78>
<0d347e43-d718-4f8c-a1da-620c2a60a472@a1g2000hsb.googlegroups.com>
<Xns9B13256B78F62MDWN@194.177.96.78> <4c85e482-d4e9-4553-aed7-7de32f2e9786@c65g2000hsa.googlegroups.com> <2eGdnflJqPAwo1jVnZ2dnUVZ_h-dnZ2d@posted.cpinternet> <Xns9B13B81E3D6952MDWN@194.177.96.78>
NNTP-Posting-Host: TXEyzoZuPbU+ry4dyiy9uA.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news2.google.com rec.radio.amateur.homebrew:3059

Oh!

I forgot to mention soft-switching, that's the
most common catch-all term.

From -3298569933929955381
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nlpi057.nbdc.sbc.com!prodigy.net!uns-out.usenetserver.com!news.usenetserver.com!pc02.usenetserver.com!fe127.usenetserver.com.POSTED!269d8c94!not-for-mail
Sender: lawrence@hummer.cluon.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
From: Lawrence Statton <yankeeinexile@gmail.com>
Message-ID: <878wu2urfu.fsf@hummer.cluon.com>
Lines: 16
User-Agent: Gnus/5.09 (Gnus v5.9.0) Emacs/21.1
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
X-Complaints-To: abuse@WWWSpace.NET
NNTP-Posting-Date: Mon, 08 Sep 2008 19:49:48 EDT
Date: 08 Sep 2008 18:51:49 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:609

AJ Lake <nomail@fakeaddress.com> writes:

> > You need to understand that the FCC really doesn't want to be
> >bothered with Ham Radio at all.
>
> I think that the ARRL had more to do with the snafu's of that era. For
> example incentive licensing.
>

So, I'm a young whippersnapper (42 y/o ... got my Tech+ ticket in 1988): Can someone, without adding TOO much editorial slant, explain what the 1970s push to incentive licensing was, and with as little slant as possible explain why it was a SNAFU (or as one 1x2 in the first club I was in said: Ruined the service).

--XE2/N1GAK

```
From 4190172646958853689
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!f36g2000hsa.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Mon, 8 Sep 2008 19:15:24 -0700 (PDT)
Organization: http://groups.google.com
Lines: 80
Message-ID: <d531292f-3f87-4a8d-bc37-e5a34bfde383@f36g2000hsa.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
     <2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com>
     <eff414ad-3498-41b5-b0d3-0c8c2bc67daf@m45g2000hsb.googlegroups.com>
     <4271c502-6b97-4b18-8d70-b5e05372cbc7@p25g2000hsf.googlegroups.com>
     <xcSdnWqxlJtW917VnZ2dnUVZ_tjinZ2d@posted.cpinternet>
<60f04717-818a-47b7-8aa5-a879bb551155@w7g2000hsa.googlegroups.com>
     <Xns9B12A2B424C882MDWN@194.177.96.78> <Xns9B12CD624FE752MDWN@194.177.96.78>
     <Xns9B12D8C833BE02MDWN@194.177.96.78> <0d347e43-d718-4f8c-
a1da-620c2a60a472@a1g2000hsb.googlegroups.com>
     <Xns9B13256B78F62MDWN@194.177.96.78> <4c85e482-d4e9-4553-
aed7-7de32f2e9786@c65g2000hsa.googlegroups.com>
     <2eGdnflJqPAwo1jVnZ2dnUVZ_h-dnZ2d@posted.cpinternet> <3b5ac1cc-
c1b7-4c73-948d-92fc8a40f1c4@l64g2000hse.googlegroups.com>
     <Xns9B13B9538BB5A2MDWN@194.177.96.78>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 9 Sep 2008 02:15:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f36g2000hsa.googlegroups.com; posting-host=76.226.207.25;
```

posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3061

On Sep 8, 7:13=A0pm, Grumpy The Mule <s_foo...@foo.bar> wrote:
> > THESE MUST BE OPERATED UNDER LOAD OR THEY WILL SMOKE.
>
> > At least that is what happend to mine.
>
> > Jimmie
>
> Oh, sorry to hear that. =A0Yeah, it's a bad idea to operate
> any switch mode power supply without a minimum load unless
> the min. load is built-in or the thing is so inefficent that
> its own losses make up the minimum load. The output diodes
> probably didn't like that... just my guess.
>
> I found some interesting stuff on the panasonic inverter.
>
> On the fusor chat they claim it's 85% efficient and good for
> 1200W. =A0The efficiency seems right, the 1200W seems... optimistic.
>
> Also this, instructions on getting the inverter to play.http://www.fusor.=
net/board/view.php?site=3Dfusor&bn=3Dfusor_hvpower&key=3D1...
> 046 =A0

Hey mule:
Your url got cropped.

The inverter PS I have can be fooled into thinking it has a load.

There is a current sense I found and a voltage sense
both on the primary side.
It's a piece of cake opto coupling a signal back
to those sense inputs. they are both straight voltage dividers
with Vrefs. And the current sense uses a 50K ohm trim pot for
adjustment.

They use a 100meg bleeder for a load. And the filament which is at
least
150 watts, loads the supply too.

I suspect my 120VAC inverter will work off of 240VAC

And if you take out the filament circuit that gives yoiu an extra 150
watts.
I suspect I can gits 1500 watts from my 1300 watt interer PS, with
input
filtering of the DC off the mains.

But the final report wont happen until i gits the feedback circuit

wired.
That will prevent it from trying to produce 1300 watts into no load.
With no load it will try to up the voltage to produce more current.
Which it can't
produce more current so it keeps increasing the voltage untill it lets
out the smoke,

When it hits 3000 volts I will fool the sense circuits: a voltage
divider for
the current sense and another divider for the voltage sense, into
seeing 1300 watts.

Another trick is to run the mains off a variac starting at 10 VAC very
slow. Also supply seperate power to the PWM IC circuit,
Just to see how far it will go, and not get it to go into run away.

I see the power trouble how can you gits 1300 watts out of that little
bitty core?
That's what they used to say about silicone diodes when they used to
replace a 5U4 tube.
They used to tell me how can a little piece of wire with a bead on it
replace a tube as big as your fist
no freaking way. I also made a living selling 2.5 amp 1000 piv diodes.

I mean the primary of this thing uses litz wire that looks like 10AWG
wire about 13 turns around the core
and they using 4 strands of 28 AWG to run the filament
The HV secondary measures only 6.8 ohms DC.

73 OM

n8zu

```
From 7808060785610879728
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cycny01.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc02.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<878wu2urfu.fsf@hummer.cluon.com>
Subject: Re: CW is a hobby (off topic BWTH)
Lines: 96
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
```

Message-ID: <vDlxk.734$Dj1.531@trnddc02>
Date: Tue, 09 Sep 2008 02:58:35 GMT
NNTP-Posting-Host: 71.118.0.134
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc02 1220929115 71.118.0.134 (Mon, 08 Sep 2008 22:58:35 EDT)
NNTP-Posting-Date: Mon, 08 Sep 2008 22:58:35 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:611

"Lawrence Statton" <yankeeinexile@gmail.com> wrote in message
news:878wu2urfu.fsf@hummer.cluon.com...
> AJ Lake <nomail@fakeaddress.com> writes:
> > > You need to understand that the FCC really doesn't want to be
> > >bothered with Ham Radio at all.
> >
> > I think that the ARRL had more to do with the snafu's of that era. For
> > example incentive licensing.
> >
>
> So, I'm a young whippersnapper (42 y/o ... got my Tech+ ticket in
> 1988): Can someone, without adding TOO much editorial slant, explain
> what the 1970s push to incentive licensing was, and with as little
> slant as possible explain why it was a SNAFU (or as one 1x2 in the
> first club I was in said: Ruined the service).
>
> --XE2/N1GAK
>
As I remember it...
I am not sure what the ARRL had to do with events previous to 73 and some of the chronology from memory.

The 11 meter ham band was taken away to make the Citizens Band in 58?   It didn't turn out anything like the FCC expected. Previously there were fewer ham license classes and everyone was on the same page. Also privileges were taken away from the highest class to make a higher ones. Ticked off a lot of Hams to lose.

The Technician License split ham radio into two factions by offering a license class that had little incentive to upgrade and actually made it much more difficult to, by limiting the opportunities for on-the-air training. People who took the Novice ticket were upgraded to General in less than 2 years or never got around to get on the air and let it lapse. Hams (in my area anyway) were expected to build something as a right of passage. Building a code practice oscillator would get you a pat on the back from everyone and you were in with the simplest project there was. I built that and the power supplies for my mil surplus rigs. Some guys built a whole Novice station. Techs at that time were expected to retune or modify a rig or some project as well but would go straight to CB like intercom operations not conducive to learning the HF skills for upgrade. In my day we were aware of a difference but we were all brother hams then. I had Elmers that were Techs and beyond. Most all were technically inclined enough to have built something. People were generally civilized and knew that we were all on the same team. If there was irritation between individuals, and there were oddballs, it was downplayed for the good of amateur radio, because it was a small world and people were listening. And you would run into each other again and again, so no sense carrying a grudge.

That was the reality of it, whatever your point of view of how it should have been.

In the late 70's there was a push by ARRL to get CBers interested, and over the counter 2 meter radios were first becoming available.

ARRL didn't seem to understand that CB was a different service with a different mindset and many were already set in their ways.   They seemed to be willing to get people to hang outside of RS stores and lure CBers under false pretenses about amateur radio in order to pump up the license roles and subscriptions to QST.   Wayne Green was one of the ticked off ones and started 73 magazine to rag about the ARRL and QST. ARRL also convinced the FCC (easily) to set up the volunteer examiner program. Novice exams were already given by volunteer Extras. FCC wanted to lighten their work load since Ham testing and licensing was taking up most of a day at the field offices.

License renewals were then made easier and for longer. ARRL liked it because the rolls didn't drop out so fast and FCC didn't have to bother as often.

The volunteer examiner program gave seminars to get people licensed but because of the accellerated pace, people got licensed before they got a chance to learn the realities of getting on the air and keeping a station up and meeting the people. Some people would find it not their cup of tea and leave but their license was now good for 10 years pumping up the rolls.

The no-code Tech license 83? further divided amateurs and even further sidetracked Techs from upgrading. Lead time for getting a ticket was shortened from the 2 to 6 months or so to learn the code to as little as 6 weeks, then 2 weeks as the process refined.   It was notable that in the 80s, there were many who learned the code anyway and upgraded but the whole thing by and large tended to split Ham Radio into those who upgraded and those who couldn't very well.and were often frustrated. Many would tell themselves they just weren't interested and resented the others. Way too sad. I finally came to grips with the idea that they should do away with the Tech class license at all costs, even getting rid of code testing for the General to do it, just so we could mend the split.   I was stunned when they dropped the code requirement for Extra though. I really haven't kept track of all the current structure since I got my Extra in 93.

In any case, the "incentive" licensing structure was anything but incentive. So much for good intentions. ARRL has done a lot of good things but some major screwups too. Support them but keep an eye on them and keep them straightened out.

From -3304765211535639923
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feeder.erje.net!news.k-dsl.de!aioe.org!not-for-mail
From: AJ Lake <nomail@fakeaddress.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Mon, 08 Sep 2008 21:25:56 -0700
Organization: Aioe.org NNTP Server
Lines: 22
Message-ID: <e1ubc4te65qf6mumohsqmvf32arail0jgh@4ax.com>
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<878wu2urfu.fsf@hummer.cluon.com>
NNTP-Posting-Host: hSgUdE1qkWL2GDcXQDk/hg.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Agent 1.91/32.564
Xref: g2news1.google.com rec.radio.amateur.homebrew:612

Lawrence Statton <yankeeinexile@gmail.com> wrote:

>Can someone, without adding TOO much editorial slant, explain
>what the 1970s push to incentive licensing was,

Shamelessly copied from: http://ham-shack.com/history.html. Check here for the history before and after the event.

"1967-The FCC announced the new Incentive Licensing rules: over the next 2 years, General & Conditional operators would lose 50% of the 75-15 meter phone bands, the "First Class" idea was dropped, the Advanced Class was reopened to new applicants, Extra & Advanced Class operators get exclusive subbands on 80-15 and 6 meters, the Novice license term is doubled to two years, but Novices lose their 2 meter phone privileges, the FCC restates the "Technicians are experimenters, not communicators" policy, and states that the next license step for Novices is the General, not Technician, class."

>and with as little slant as possible explain why it was a SNAFU

That SNAFU of course is a slant by those of us who lost privileges in the new licensing system. I was a General at the time. I actually had to buy a Bash book to get them back...

From -3417042606348496014
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!

nntp.posted.cpinternet!news.posted.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Sep 2008 23:27:20 -0500
Date: Mon, 08 Sep 2008 23:32:57 -0500
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<878wu2urfu.fsf@hummer.cluon.com> <vDlxk.734$Dj1.531@trnddc02>
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qviP8oeNF02vseUT2cUjHnES3xFat02ULw9NgsQ!j0iSIpMtHRn/n7h4WK0hcg==
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:3064

JB wrote:

<snip>
>
> The Technician License split ham radio into two factions by offering a
> license class that had little incentive to upgrade and actually made it much
> more difficult to, by limiting the opportunities for on-the-air training.
> People who took the Novice ticket were upgraded to General in less than 2
> years or never got around to get on the air and let it lapse. Hams (in my
> area anyway) were expected to build something as a right of passage.
> Building a code practice oscillator would get you a pat on the back from
> everyone and you were in with the simplest project there was. I built that
> and the power supplies for my mil surplus rigs. Some guys built a whole
> Novice station. Techs at that time were expected to retune or modify a rig
> or some project as well but would go straight to CB like intercom operations
> not conducive to learning the HF skills for upgrade.

Hmmm, first time I've read such an opinion regarding original Techs; in my experience, Techs concentrated on building, experimenting and exploiting VHF, UHF and above and had less inherent interest in HF. Some were just unable to muster higher CW wpm for other tickets.

> In my day we were aware of a difference but we were all brother hams then.

```
> I had Elmers that were Techs and beyond.

Perhaps you are referring to later model Techs; the term 'Elmer' didn't exist
during the day to which I refer.

Michael



From -5385544561621172323
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!34g2000hsh.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
Date: Tue, 9 Sep 2008 06:42:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 27
Message-ID: <956f3fee-69e8-4782-bbc8-67b1eaac39f8@34g2000hsh.googlegroups.com>
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<878wu2urfu.fsf@hummer.cluon.com>
NNTP-Posting-Host: 170.121.15.38
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1220967725 10787 127.0.0.1 (9 Sep 2008 13:42:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 9 Sep 2008 13:42:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 34g2000hsh.googlegroups.com; posting-host=170.121.15.38;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:614

On Sep 8, 7:51=A0pm, Lawrence Statton <yankeeinex...@gmail.com> wrote:
> AJ Lake <nom...@fakeaddress.com> writes:
> > > You need to understand that the FCC really doesn't want to be
> > >bothered with Ham Radio at all.
>
> > I think that the ARRL had more to do with the snafu's of that era. For
> > example incentive licensing.
>
> So, I'm a young whippersnapper (42 y/o ... got my Tech+ ticket in
> 1988): =A0Can someone, without adding TOO much editorial slant, explain
> what the 1970s push to incentive licensing was, and with as little
> slant as possible explain why it was a SNAFU (or as one 1x2 in the
> first club I was in said: =A0Ruined the service).

Look in the letters section of a 50's QST, there's rants and raves
```

from both sides on incentive licensing.

Look in the letters section of a 60's QST, there's rants and raves
from both sides on incentive licensing.

The controversy in the 70's was the Technician license, a ticket that
required no code, as a way to get some CB'ers to take notice. I myself
came to ham radio in the 70's but had no interest in anything having
to do with Technician privileges. I know many other hams who did come
in that way in the 70's, 80's, etc.

Tim N3QE

```
From 7981271077599457069
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!
trnddc02.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<878wu2urfu.fsf@hummer.cluon.com> <vDlxk.734$Dj1.531@trnddc02> <5J-
dnfuHefy0ZljVnZ2dnUVZ_u2dnZ2d@posted.cpinternet>
Subject: Re: CW is a hobby (off topic BWTH)
Lines: 98
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <SRxxk.755$Dj1.516@trnddc02>
Date: Tue, 09 Sep 2008 16:53:06 GMT
NNTP-Posting-Host: 71.104.216.103
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc02 1220979186 71.104.216.103 (Tue, 09 Sep 2008 12:53:06 EDT)
NNTP-Posting-Date: Tue, 09 Sep 2008 12:53:06 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3066
```

"msg" <msg@_cybertheque.org_> wrote in message
news:5J-dnfuHefy0ZljVnZ2dnUVZ_u2dnZ2d@posted.cpinternet...

> JB wrote:
>
> <snip>
> >
> > The Technician License split ham radio into two factions by offering a
> > license class that had little incentive to upgrade and actually made it
much
> > more difficult to, by limiting the opportunities for on-the-air

training.
> > People who took the Novice ticket were upgraded to General in less than
2
> > years or never got around to get on the air and let it lapse. Hams (in
my
> > area anyway) were expected to build something as a right of passage.
> > Building a code practice oscillator would get you a pat on the back from
> > everyone and you were in with the simplest project there was. I built
that
> > and the power supplies for my mil surplus rigs. Some guys built a whole
> > Novice station. Techs at that time were expected to retune or modify a
rig
> > or some project as well but would go straight to CB like intercom
operations
> > not conducive to learning the HF skills for upgrade.
>
> Hmmm, first time I've read such an opinion regarding original Techs; in my
> experience, Techs concentrated on building, experimenting and exploiting
> VHF, UHF and above and had less inherent interest in HF. Some were just
> unable to muster higher CW wpm for other tickets.
>
> > In my day we were aware of a difference but we were all brother hams
then.
> > I had Elmers that were Techs and beyond.
>
> Perhaps you are referring to later model Techs; the term 'Elmer' didn't
exist
> during the day to which I refer.
>
> Michael

Of course there were variations in your experience depending on the crowd
you fell in with. To this day, the club experience tends to be limiting for
those who want to explore in depth, the great variety of interests that ham
radio has to offer. There are in fact many, many specialties and
sub-interests within amateur radio. If you try to list what they are, you
keep adding to the list indefinitely. Clubs tend to promote the entry and
political interests and get preoccupied there. If people in a club are
ragging about lack of Elmers or Technological interest in ham radio, it is
because the club itself has become stagnant with a lack of imagination, like
the teenager who sits around watching TV and complaining about being bored.
Boring people actually bore themselves. In my experience, most hams don't
show up at the local ham club because they have other Ham Radio interests.

Your Experience (above, re: Techs vs. HF) is proof of what comes of
promoting a division within ham radio. Politics should have learned by now
that the 2 party system has become the same kind of disaster. The Electoral
system used to have several parties and candidates and the winner became
President and runner-up was Vice-President, regardless of political party.
Probably more aggravation for the cabinet, but more of a stabilizing
influence on our nation. Our current system has actually promoted a rift in
America that gets farther apart as we go our separate ways in order to avoid
drowning in the middle. Eventually this could lead to another Civil War but

I digress.

An Elmer was everyone who was willing to share what they had learned. The term and the people were there long before I decided to be a ham, perhaps pre-war QST. The first thing I learned was that with so many sub-interests, the only way I could hope to experience it all was vicariously. By visiting the garages and hamshacks to see what other people had done. Antenna experimenters, transmission line specialists who conversed with Smith Charts. Teletype experimenters who were cobbling home made digital controllers to their model 28s, that would become the home computer. People who did various mods and projects involving existing equipment, People who built their own equipment. Even one poor kid in High School who built a full QRP station onto his bicycle from transistor radio parts and other junk. This guy had a bit of an inferiority complex, because when he would show people the construction and circuit designs (often modular with junk boards modified and cabled together in a re-used cabinet) they would become very interested and of course the "why did you do it this way" question would always set him off. Some would joke him over that. I had to remind him often to put away his anguish and realize they were in fact impressed by his accomplishments and what was happening was in fact a by product of their curiosity and envy. Although I was an Advanced and He was a Novice, it didn't change the fact that we were both Elmers in our own right. We become Elmers to each other as long as we don't pout and cry over normal human relations.

I realize that pouting and crying over normal human relations has become some sort of fashionable thing lately. I don't think it is a good thing. Maybe it is from people being told by their Psychiatrist (like Cops, depend on repeat business) that everything will be OK if they let their emotions take control, and that it is perfectly normal to throw tantrums or hump people's leg in public. Makes good press though.

```
From -8628028708164498945
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.news-2.mpls.iphouse.com.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW is a hobby (off topic BWTH)
From: Bert Hyman <bert@iphouse.com>
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
Organization: Not so you'd notice
Message-ID: <Xns9B1479DA0DD7EVeebleFetzer@127.0.0.1>
User-Agent: Xnews/2006.08.24
Date: 09 Sep 2008 16:58:59 GMT
Lines: 9
NNTP-Posting-Date: 09 Sep 2008 11:58:59 CDT
NNTP-Posting-Host: a7fa89dd.auth.newsreader.iphouse.com
```

```
X-Trace:
DXC=NeSJKKAbl3h1;fDL_]Fmnf_6RIS\>jRccFbE0<hKBJToXbDdW5HQJYiD1kiRiW\QFdZgRhQGSTe:nh
6Q1TR0cFnfSm]9NbUV4Qg42K3lI6<I[i
X-Complaints-To: abuse@iphouse.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:3067
```

nomail@fakeaddress.com (AJ Lake) wrote in
news:a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com:

> Got my Novice in 57. Been doing CW ever since. But only as a hobby

You do realize that ham radio itself is only a hobby, don't you?

--
Bert Hyman | St. Paul, MN | bert@iphouse.com

```
From 3236443997025072481
X-Google-Thread: fc2a5,4a61f236ebeceacf
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!nwrddc02.gnilink.net.POSTED!1bc6af47!not-for-
mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <a8abc4t7cmh77v6pjmnni8ls565i9mt1g8@4ax.com>
<878wu2urfu.fsf@hummer.cluon.com> <e1ubc4te65qf6mumohsqmvf32arail0jgh@4ax.com>
Subject: Re: CW is a hobby (off topic BWTH)
Lines: 32
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <EYxxk.44$SA.39@nwrddc02.gnilink.net>
Date: Tue, 09 Sep 2008 17:00:20 GMT
NNTP-Posting-Host: 71.104.216.103
X-Complaints-To: abuse@verizon.net
X-Trace: nwrddc02.gnilink.net 1220979620 71.104.216.103 (Tue, 09 Sep 2008 13:00:20
EDT)
NNTP-Posting-Date: Tue, 09 Sep 2008 13:00:20 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3068
X-Original-Bytes: 2399
```

"AJ Lake" <nomail@fakeaddress.com> wrote in message
news:e1ubc4te65qf6mumohsqmvf32arail0jgh@4ax.com...

> Lawrence Statton <yankeeinexile@gmail.com> wrote:
>
> >Can someone, without adding TOO much editorial slant, explain
> >what the 1970s push to incentive licensing was,

>
> Shamelessly copied from: http://ham-shack.com/history.html. Check here for
> the history before and after the event.
>
> "1967-The FCC announced the new Incentive Licensing rules: over the next 2
> years, General & Conditional operators would lose 50% of the 75-15 meter
> phone bands, the "First Class" idea was dropped, the Advanced Class was
> reopened to new applicants, Extra & Advanced Class operators get exclusive
> subbands on 80-15 and 6 meters, the Novice license term is doubled to two
> years, but Novices lose their 2 meter phone privileges, the FCC restates
the
> "Technicians are experimenters, not communicators" policy, and states that
> the next license step for Novices is the General, not Technician, class."
>
> >and with as little slant as possible explain why it was a SNAFU
>
> That SNAFU of course is a slant by those of us who lost privileges in the
> new licensing system. I was a General at the time. I actually had to buy
a
> Bash book to get them back...

So it was FCC after all that formed the opinion. Sounds like a conspiracy
theory to keep us preoccupied with infighting.

From 8273527203394903661
X-Google-Thread: 10c2ee,f667259876c55cc
X-Google-Thread: fc2a5,f667259876c55cc
X-Google-Attributes: gid10c2ee,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!pink.octanews.net!news-
out.octanews.net!indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: WTB : LPAM Part 15 Transmitter BCB
Date: Wed, 27 Aug 2008 01:00:21 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.08.27.08.00.21.672620@localhost.localdomain>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
References: <n8Isk.8973$Jk1.5308@newsfe01.iad>
Followup-To: rec.radio.amateur.homebrew
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 6
Organization: Octanews
NNTP-Posting-Date: 27 Aug 2008 03:00:26 CDT
X-Complaints-To: abuse@octanews.net
X-Original-Bytes: 877
Xref: g2news2.google.com rec.antiques.radio+phono:31845
rec.radio.amateur.homebrew:2969

Maybe this will help?

http://lowpowerradio.blogspot.com

Cheers!

```
From 9090201294582511286
X-Google-Thread: fc2a5,f667259876c55cc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!k13g2000hse.googlegroups.com!not-for-
mail
From: Peter Wieck <pfjw@aol.com>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: Re: WTB : LPAM Part 15 Transmitter BCB
Date: Wed, 27 Aug 2008 04:53:03 -0700 (PDT)
Organization: http://groups.google.com
Lines: 95
Message-ID: <373a7eac-32d1-4988-abb3-7c79bf7c61d1@k13g2000hse.googlegroups.com>
References: <n8Isk.8973$Jk1.5308@newsfe01.iad> <98b39f50-7700-4ad5-
ae58-526c230925e0@x41g2000hsb.googlegroups.com>
     <y30tk.4100$AV5.32109@weber.videotron.net> <f79bdc49-b88d-4a56-
a79c-482710c388b8@t54g2000hsg.googlegroups.com>
     <bb3tk.4106$AV5.32984@weber.videotron.net>
NNTP-Posting-Host: 64.47.47.2
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1219837984 16257 127.0.0.1 (27 Aug 2008 11:53:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Aug 2008 11:53:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k13g2000hse.googlegroups.com; posting-host=64.47.47.2;
     posting-account=tQE80AoAAACYibCqNWmwmvQ2q1XctZSS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.antiques.radio+phono:31849
rec.radio.amateur.homebrew:2970
```

Forgive the top posting - note the interpolations.

On Aug 26, 10:43=A0pm, Syl <s...@somewhere.else> wrote:

> Thanks. Several of those specs do bring questions though as they aren't properly defined (unless they are in the full FCC documentation ?

Well, not really - what the FCC requires is apart from many of the specifications shown. Example: US Federal requirements on automobiles write to certain requirements - leather seats is not one of them. Part

15 writes to certain requirements - Accepting stereo inputs, broadcasting 20hz - 20khz, and very low distortion are not amongst them. They are the leather seats.

> a) Just what "very low distortion" means ? To me, very low distortion would be 0,001% as a minimum. But I understand that in the real world of transmitters, 0,1% is probably considered very low distortion figures ? This based on the presumption that attaining 0,001% distortion figures is easier to attain than using tube technology. Correct me if I am wrong.

In the specifications - which you have to dig further into the site to find. However from my discussions with Phil, that VLD is relative to most commercial broadcasters and also a function of the much broader bandwidth.

> b) Adjustable compressor/limiter. To what levels ?

Also in the specifications.

> c) High Quality PC Board and Components. Does this means the homebrewer can't use Chinese made parts [grin]

I am not so sure how to answer that question. I have seen homebrewers use the functional equivalent of Venusian water buffalo poop in their rigs - as long as it meets the radiation requirements of Part 15, I am not so sure the Feds will care. Phil sources his parts from all over the place - but many of the custom parts are made locally - not in China.

>
> Of course I do not mean to start a discussion on these points, merely thinking out loud...;o)

You mean that you are not taking a page from Mr. Byrns' book and attempting to poison the waters around what should be a pretty simple discussion? ;-{ 0>

> But...I now better understand the requirements for part 15. As It shows, the only difference between a commercial unit and a homebrewer's is the latter does not have to pay labs testing and approval for his "concoction" whereas the former (the manufacturer) has to have the FCC seal of approval and the of course the onerous fee(s) along with the approval tag.

Something like that.

> I wonder how the FCC manages the homebrewer's "concoctions", other than reacting to complaint(s) ? I suspect this is what happened to the kit builder whom got fined sometime ago ?

Basically, the FCC (as it is presently constituted) is a dumping ground for political hacks owed a small favor and the sons of wealthy political hacks owed a larger favor. There is not a scintilla of competence throughout its political-appointee management and hasn't been for perhaps the last 6 - 20 years (maybe much longer), depending on whose ox was gored most recently. For the most part, its regulations are written so vaguely that the adage "Money talks, the rest walks" covers their behavior. The individual who was assembling SSTRANs for resale got fined by the FCC because a competitor selling a fully-assembled product WITH the FCC compliance certificate at over 10X the cost felt threatened and injured - and had the money and was paying the fees to get action.

It is interesting to note that said kit-builder is back and has done the thing he should have done in the first place to be in full compliance with Part 15 (not sell assembled transmitters) yet still perform the service for his customers - so simple and so obvious that he missed it for years and was fined. He is now bullet-proof in that sense. Care to guess how he is doing it?

Put it this way, every single solitary AM transmitter *KIT* sold in the United States today for single-house use from Vectronics to Ramsey to SSTRAN to the L'il 7 et.al. that calls itself "Part 15 compliant" is subject to the same regulations. It is my opinion based on my experience with most of them that the SSTRAN happens to be the most convenient unit to use and short of a parts-box home-brew represents the best value-for-money in addition to its convenience. That Phil is a distant neighbor and a decent guy does not change any of that.

As the "other" Phil notes, the FCC reacts to complaints. If the complainer is of the party-in-power and also has money may affect the speed and effectiveness of their response - though not necessarily.

Peter Wieck
Melrose Park, PA

From 4248342806116327554
X-Google-Thread: fc2a5,f667259876c55cc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-mail
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: Re: WTB : LPAM Part 15 Transmitter BCB
From: k9uwaREMOVE@THISarrl.netSTUFF (John Goller, k9uwa)
Organization: JohnJeanAntiqueRadio.com
X-Newsreader: WinVN 0.99.12c [mds] (x86 32bit)
References: <n8Isk.8973$Jk1.5308@newsfe01.iad> <98b39f50-7700-4ad5-ae58-526c230925e0@x41g2000hsb.googlegroups.com> <y30tk.4100$AV5.32109@weber.videotron.net> <7x0tk.10268$Jk1.7415@newsfe01.iad> <cN0tk.4103$AV5.32546@weber.videotron.net>
MIME-Version: 1.0
Content-Type: Text/Plain; charset=US-ASCII
Lines: 28

Message-ID: <cLbtk.316203$yE1.221273@attbi_s21>
NNTP-Posting-Host: 12.201.46.184
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1219840072 12.201.46.184 (Wed, 27 Aug 2008 12:27:52 GMT)
NNTP-Posting-Date: Wed, 27 Aug 2008 12:27:52 GMT
Date: Wed, 27 Aug 2008 12:27:52 GMT
Xref: g2news2.google.com rec.antiques.radio+phono:31853
rec.radio.amateur.homebrew:2971

In article <cN0tk.4103$AV5.32546@weber.videotron.net>,
syl@somewhere.else says...
>
>
>That "part" is unclear to me. I try to understand what makes
>a transmitter Part 15 compliant
>
>Syl

Part 15 Compliant is one of two possibilities.
#1.. Transmitter is actually FCC type accepted... read EXPENSIVE PROCESS

or

#2.. Home Built or Kit Built unit for your own use... but still meets
the requirements of 100 mW and antenna etc etc etc..

Both #1 and #2 above must NOT interfere with commercial services.

Again Both of the above would only be investigated by FCC if complaints
were filed.

The Guy thats back to building the kits again ... this time legally is
probably still leaving the unit in a somewhat "Kit Form" requiring
enough final construction to the end user to comply with FCC rules.

John k9uwa

From -8005428747508461504
X-Google-Thread: 10c2ee,f667259876c55cc
X-Google-Thread: fc2a5,f667259876c55cc
X-Google-Attributes: gid10c2ee,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news4.google.com!news3.google.com!
out02a.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!
news.usenetserver.com!wesley.videotron.net!wagner.videotron.net.POSTED!not-for-mail
From: Syl <syl@somewhere.else>
Organization: Syl et Ses Radios
User-Agent: Thunderbird 2.0.0.16 (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew

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Subject: Re: WTB : LPAM Part 15 Transmitter BCB
References: <n8Isk.8973$Jk1.5308@newsfe01.iad> <98b39f50-7700-4ad5-
ae58-526c230925e0@x41g2000hsb.googlegroups.com>
<y30tk.4100$AV5.32109@weber.videotron.net> <f79bdc49-b88d-4a56-
a79c-482710c388b8@t54g2000hsg.googlegroups.com>
<bb3tk.4106$AV5.32984@weber.videotron.net> <373a7eac-32d1-4988-
abb3-7c79bf7c61d1@k13g2000hse.googlegroups.com>
In-Reply-To: <373a7eac-32d1-4988-abb3-7c79bf7c61d1@k13g2000hse.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 32
Message-ID: <5qctk.16859$fA6.18474@wagner.videotron.net>
Date: Wed, 27 Aug 2008 09:13:41 -0400
NNTP-Posting-Host: 24.202.90.28
X-Complaints-To: abuse@videotron.ca
X-Trace: wagner.videotron.net 1219842817 24.202.90.28 (Wed, 27 Aug 2008 09:13:37
EDT)
NNTP-Posting-Date: Wed, 27 Aug 2008 09:13:37 EDT
Xref: g2news2.google.com rec.antiques.radio+phono:31854
rec.radio.amateur.homebrew:2972
```

Peter Wieck a �crit :
>
>> Of course I do not mean to start a discussion on these points,
>> merely thinking out loud...;o)
>
> You mean that you are not taking a page from Mr. Byrns' book and
> attempting to poison the waters around what should be a pretty simple
> discussion? ;-{ 0>

I knew someone would catch this one...

>
> It is interesting to note that said kit-builder is back and has done
> the thing he should have done in the first place to be in full
> compliance with Part 15 (not sell assembled transmitters) yet still
> perform the service for his customers - so simple and so obvious that
> he missed it for years and was fined. He is now bullet-proof in that
> sense. Care to guess how he is doing it?

Dunno how he does it but
the way "I" would do it is build the kit for free and get the
customers to pay for an irrelevant item (say a label) for the whole
cost I would charge building the kit, or better yet, have the customer
install a few parts by themselves and send the kit in for repair
'cause it doesn't work...

Much like those selling pirated CDs from well known "free movies"
archives and not charge for the actual CD content but for the labour and
material cost...

Syl

```
From -2217646147459000298
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 27 Aug 2008 08:26:39 -0500
Date: Wed, 27 Aug 2008 09:26:39 -0400
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Organization: http://home.earthlink.net/~mike.terrell/index.html
X-Mailer: Mozilla 4.76 [en]C-CCK-MCD   (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: Re: WTB : LPAM Part 15 Transmitter BCB
References: <n8Isk.8973$Jk1.5308@newsfe01.iad> <98b39f50-7700-4ad5-
ae58-526c230925e0@x41g2000hsb.googlegroups.com>
<y30tk.4100$AV5.32109@weber.videotron.net> <7x0tk.10268$Jk1.7415@newsfe01.iad>
<cN0tk.4103$AV5.32546@weber.videotron.net> <S12tk.9822$4s1.1047@newsfe06.iad>
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit
X-NewsProxy: 1.2.4
Message-ID: <WcGdnXzjDtqSyyjVnZ2dnUVZ_s_inZ2d@earthlink.com>
Lines: 47
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.110.34.161
X-Trace: sv3-6El9rDMt/Vl0/
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ipL7JGFn94N7ypRmM9dwHpO5Zs0NZ7qt2coDXJvmLEAcdw1SigwPJZ3vv3vqmK0sMQZUNy/kOR6e!
ddCRTENxPyilJTUvrKZvtjdClkCNZGlcit6yYdg=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.antiques.radio+phono:31857
rec.radio.amateur.homebrew:2973


Tio Pedro wrote:
>
> "Syl" <syl@somewhere.else> wrote in message
> news:cN0tk.4103$AV5.32546@weber.videotron.net...
> > Tio Pedro a �crit :
> >
>  > Dear Senor Pedro,
> >
> > That "part" is unclear to me. I try to understand what makes
> > a transmitter Part 15 compliant when homemade as opposed
> > to a commercial unit. Does the 100mw input still holds
> > (but owner/builder doesn't have to get "approved" by FCC) or
> > is it a don't get caught transmitting on a commercial
> > frequency -i.e. create interferences- and you'll do fine thing ?
```

> >
> > Syl
>
> Mon Ami
>
> I tried googling the FCC website, but not much luck...
> There is (was) a section that mentioned that it was legal to build
> a part 15 transmitter, provided it meet the FCC requirements for
> regarding power, antenna limitations and spectral purity. There
> was a limit on the number of such devices that could be built and
> owned by individual as well.
>
> Pete

You want to wade through CFR 47, part 15. That has the laws the FCC is supposed to enforce.

--
http://improve-usenet.org/index.html

aioe.org, Goggle Groups, and Web TV users must request to be white listed, or I will not see your messages.

If you have broadband, your ISP may have a NNTP news server included in your account: http://www.usenettools.net/ISP.htm

There are two kinds of people on this earth:
The crazy, and the insane.
The first sign of insanity is denying that you're crazy.

```
From 4507045121799256047
X-Google-Thread: fc2a5,f667259876c55cc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!m45g2000hsb.googlegroups.com!not-for-
mail
From: Peter Wieck <pfjw@aol.com>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: Re: WTB : LPAM Part 15 Transmitter BCB
Date: Wed, 27 Aug 2008 06:39:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 21
Message-ID: <e056beff-f641-4c85-bb05-42351fbda972@m45g2000hsb.googlegroups.com>
References: <n8Isk.8973$Jk1.5308@newsfe01.iad> <98b39f50-7700-4ad5-
ae58-526c230925e0@x41g2000hsb.googlegroups.com>
     <y30tk.4100$AV5.32109@weber.videotron.net> <f79bdc49-b88d-4a56-
a79c-482710c388b8@t54g2000hsg.googlegroups.com>
     <bb3tk.4106$AV5.32984@weber.videotron.net> <373a7eac-32d1-4988-
abb3-7c79bf7c61d1@k13g2000hse.googlegroups.com>
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<5qctk.16859$fA6.18474@wagner.videotron.net>
NNTP-Posting-Host: 64.47.47.2
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1219844393 3552 127.0.0.1 (27 Aug 2008 13:39:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Aug 2008 13:39:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m45g2000hsb.googlegroups.com; posting-host=64.47.47.2;
posting-account=tQE80AoAAACYibCqNWmwmvQ2q1XctZSS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.antiques.radio+phono:31858
rec.radio.amateur.homebrew:2974

On Aug 27, 9:13=A0am, Syl <s...@somewhere.else> wrote:

> have the customer install a few parts by themselves and send the kit in f=
or repair
> 'cause it doesn't work...

Yep.You are on the right track - the kit is built all-but-plugging the
chips into the sockets. That is left to the customer and apparently
enough to satisfy the regulations.

Ah, well. I built mine and I enjoy it nearly every day. I also keep an
FM-stereo transmitter so I can feed AM signal to the vintage audio and
FM signal to the vintage radios...

Hey, does Little Vinny have any currency from the middle east? I could
gather a few coins together if you wish?

Peter Wieck
Melrose Park, PA

From 7362582871327830626
X-Google-Thread: fc2a5,e69d33ee065dd08a,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!79g2000hsk.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: microwave oven inverter P.S. revisited
Date: Wed, 27 Aug 2008 09:40:10 -0700 (PDT)
Organization: http://groups.google.com
Lines: 20
Message-ID: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>

NNTP-Posting-Host: 76.226.143.56
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1219855210 12416 127.0.0.1 (27 Aug 2008 16:40:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Aug 2008 16:40:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 79g2000hsk.googlegroups.com; posting-host=76.226.143.56;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.14)
Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2975

finally came across an article by VK3HZ that describes how to make a
microwave oven inverter PS work, as a stand alone supply.
the link is:
www.users.bigpond.net.au/dwsmith/hv_inverter.pdf

It's only regulated from the primary side. And you can make it put out
anything from 2000 to 4000 VDC. but at 1300 watts.

So all I have to do is load down the primary to fake out the regulator
into seeing 1300 watts, Or run class A.

The output or the input still has to be filtered

There's an opto coupler that has to see a 110hz square wave, according
to VK3HZ, that'll keep the supply running full tilt as long as there
is power supplied to the inverter.

73
n8zu

From -7474153985038558711
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!i24g2000prf.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted, Diodes
Date: Wed, 27 Aug 2008 12:58:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 41
Message-ID: <a8771cea-5ec0-4eb9-8b2e-ad7420f51809@i24g2000prf.googlegroups.com>
References: <3e143b92-6e3e-4872-b021-03f0cf26237b@26g2000hsk.googlegroups.com>
<f05b699c-5585-4236-a994-060ee07b06c8@q5g2000prf.googlegroups.com>
<059007d4-db4f-4a13-a21e-7f04d65398f1@z66g2000hsc.googlegroups.com>
<c824fc80-07f7-4a7c-b286-c711932b5300@a2g2000prm.googlegroups.com>
<0c29b9b8-9822-4bde-b266-45447fe77ebf@a2g2000prm.googlegroups.com>

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     <d0367098-b46d-4498-8550-4945493f0d38@v26g2000prm.googlegroups.com>
     <6e7b9deb-3bf3-4c09-b6a7-7d1425e4b53f@b1g2000hsg.googlegroups.com>
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Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1219867102 8358 127.0.0.1 (27 Aug 2008 19:58:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Aug 2008 19:58:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i24g2000prf.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.1)
     Gecko/2008070208 Firefox/3.0.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2976

On Aug 26, 12:05=A0pm, Tim Shoppa <sho...@trailing-edge.com> wrote:
> On Aug 26, 2:26=A0pm, K7ITM <k7...@msn.com> wrote:
>
> > On Aug 26, 10:46 am, Tim Shoppa <sho...@trailing-edge.com> wrote:
> > ...
>
> > > The brass-screw-in-a-solenoid is something I just tried in my
> > > reproduction of the MMR-40 and I am very impressed with its stability
> > > and mechanical simplicity as a PTO. A similar but not identical
> > > mechanical design is used in the WA6OTP PTO, I haven't tried it yet.
>
> > > Tim.
>
> > Though not actually PTO if it's a brass screw, right?
>
> Permeability of brass is slightly less than air, which is why the PTO
> goes up in frequency as I screw the brass screw in.
>
> It's not an iron-powder slug (which would go down in frequency as it
> enters the solenoid) but it's still a PTO.
>
> If you haven't tried them, I highly encourage you look at the PTO in
> the MMR-40 and the WA6OTP PTO. Completely 100% homebrewable and I'm
> very happy with the results.
>
> Tim.

Well, I beg to differ with you about the (main) reason the frequency
changes.  Consider what happens if you have two coils magnetically
coupled and you monitor the inductance of one while you apply a short
across the other one.  Then consider what you'll see on the inductance
meter as you change the coupling between the measured coil and the
shorted one.  The references I've been able to find so far suggest the
permeability of brass is slightly higher than that of air, but I
suppose it's a function of the composition of the brass; in any event,
I'd bet that the shorted-turn effect is very much larger than the
```

permeability effect with respect to changing the inductance of the
oscillator coil.

Cheers,
Tom

```
From 4805774316695252041
X-Google-Thread: fc2a5,b2461839f139fd6d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
x41g2000hsb.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted, Diodes
Date: Thu, 28 Aug 2008 04:29:41 -0700 (PDT)
Organization: http://groups.google.com
Lines: 52
Message-ID: <5372ea10-f80e-4c2c-b2ea-fe5649dbcb75@x41g2000hsb.googlegroups.com>
References: <3e143b92-6e3e-4872-b021-03f0cf26237b@26g2000hsk.googlegroups.com>
     <f05b699c-5585-4236-a994-060ee07b06c8@q5g2000prf.googlegroups.com>
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1219922981 16514 127.0.0.1 (28 Aug 2008 11:29:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 28 Aug 2008 11:29:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x41g2000hsb.googlegroups.com; posting-host=76.226.143.56;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.16)
     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:526
```

On Aug 27, 3:58 pm, K7ITM <k7...@msn.com> wrote:
> On Aug 26, 12:05 pm, Tim Shoppa <sho...@trailing-edge.com> wrote:
>
>
>
> > On Aug 26, 2:26 pm, K7ITM <k7...@msn.com> wrote:
>
> > > On Aug 26, 10:46 am, Tim Shoppa <sho...@trailing-edge.com> wrote:
> > > ...
>

> > > > The brass-screw-in-a-solenoid is something I just tried in my
> > > > reproduction of the MMR-40 and I am very impressed with its stability
> > > > and mechanical simplicity as a PTO. A similar but not identical
> > > > mechanical design is used in the WA6OTP PTO, I haven't tried it yet.
>
> > > > Tim.
>
> > > Though not actually PTO if it's a brass screw, right?
>
> > Permeability of brass is slightly less than air, which is why the PTO
> > goes up in frequency as I screw the brass screw in.
>
> > It's not an iron-powder slug (which would go down in frequency as it
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>
> > If you haven't tried them, I highly encourage you look at the PTO in
> > the MMR-40 and the WA6OTP PTO. Completely 100% homebrewable and I'm
> > very happy with the results.
>
> > Tim.
>
> Well, I beg to differ with you about the (main) reason the frequency
> changes. Consider what happens if you have two coils magnetically
> coupled and you monitor the inductance of one while you apply a short
> across the other one. Then consider what you'll see on the inductance
> meter as you change the coupling between the measured coil and the
> shorted one. The references I've been able to find so far suggest the
> permeability of brass is slightly higher than that of air, but I
> suppose it's a function of the composition of the brass; in any event,
> I'd bet that the shorted-turn effect is very much larger than the
> permeability effect with respect to changing the inductance of the
> oscillator coil.
>
> Cheers,
> Tom

I agree, except Air has no permeability, you can't magnetize air. You
can't magnetize brass. What you have is a proximity detector. aka
metal detector.

73
n8zu

From -2464018505549815152
X-Google-Thread: fc2a5,b2461839f139fd6d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!d45g2000hsc.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted, Diodes

```
Date: Thu, 28 Aug 2008 06:25:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 27
Message-ID: <05a467e7-3416-4d2c-94ce-98ab1abe9f4d@d45g2000hsc.googlegroups.com>
References: <3e143b92-6e3e-4872-b021-03f0cf26237b@26g2000hsk.googlegroups.com>
     <f05b699c-5585-4236-a994-060ee07b06c8@q5g2000prf.googlegroups.com>
     <059007d4-db4f-4a13-a21e-7f04d65398f1@z66g2000hsc.googlegroups.com>
     <c824fc80-07f7-4a7c-b286-c711932b5300@a2g2000prm.googlegroups.com>
     <0c29b9b8-9822-4bde-b266-45447fe77ebf@a2g2000prm.googlegroups.com>
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     <6e7b9deb-3bf3-4c09-b6a7-7d1425e4b53f@b1g2000hsg.googlegroups.com>
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NNTP-Posting-Host: 170.121.15.44
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1219929935 5214 127.0.0.1 (28 Aug 2008 13:25:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 28 Aug 2008 13:25:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d45g2000hsc.googlegroups.com; posting-host=170.121.15.44;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:527
```

On Aug 28, 7:29=A0am, raypsi <RBorow...@gmail.com> wrote:
> On Aug 27, 3:58 pm, K7ITM <k7...@msn.com> wrote:
> > I'd bet that the shorted-turn effect is very much larger than the
> > permeability effect with respect to changing the inductance of the
> > oscillator coil.
>
> > Cheers,
> > Tom
>
> I agree, except Air has no permeability, you can't magnetize air. You
> can't magnetize brass.

I think you're confusing permeability with susceptibility. Even vacuum has non-zero permeability.

I'm still considering Tom's points. What I know from decades of experience, is if I put a brass slug into a solenoid, the inductance goes down by a little bit. "Little" is relative to the effect of a ferrite slug, which makes inductance go up by a lot in comparison.

The "little" is key for the PTO designs I mention, it allows rather fine tuning with very simple mechanicals. If I think of it as shorting turns as it moves in, that is completely out of whack in my head with the observed changes, because shorting all the turns causes a big change in inductance, not a small one.

Tim N3QE

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Path: g2news2.google.com!news2.google.com!news.glorb.com!news.acm.uiuc.edu!
news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted, Diodes
Date: Thu, 28 Aug 2008 12:01:20 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 20
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Xref: g2news2.google.com rec.radio.amateur.homebrew:2979
```

On Thu, 28 Aug 2008, Tim Shoppa wrote:

> I'm still considering Tom's points. What I know from decades of experience, is if I put a brass slug into a solenoid, the inductance goes down by a little bit. "Little" is relative to the effect of a ferrite slug, which makes inductance go up by a lot in comparison.
>

Which of course is why you see iron core and ferrite slugs in high inductance coils, but in small inductance, like you'd see at VHF, the slugs were brass.

Or, that tuning wand with some sort of ferrite at one end and brass at the other, so you could tell whether the tuned circuit was too high or too low.

At that level, brass and ferrite were seen as the same thing, a means

of varying the inductance. The choice was made by how much variation
you needed, and which way, rather than what action was taking place.

Michael VE2BVW

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Path: g2news2.google.com!postnews.google.com!m73g2000hsh.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Thu, 28 Aug 2008 13:02:23 -0700 (PDT)
Organization: http://groups.google.com
Lines: 29
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References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
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Xref: g2news2.google.com rec.radio.amateur.homebrew:2980

On Aug 27, 12:40=A0pm, raypsi <RBorow...@gmail.com> wrote:
> finally came across an article by VK3HZ that describes how to make a
> microwave oven inverter PS work, as a stand alone supply.
> the link is:www.users.bigpond.net.au/dwsmith/hv_inverter.pdf
>
> It's only regulated from the primary side. And you can make it put out
> anything from 2000 to 4000 VDC. but at 1300 watts.
>
> So all I have to do is load down the primary to fake out the regulator
> into seeing 1300 watts, Or run class A.
>
> The output or the input still has to be filtered
>
> There's an opto coupler that has to see a 110hz square wave, according
> to VK3HZ, that'll keep the supply running full tilt as long as there
> is power supplied to the inverter.
>
> 73

> n8zu

If the circuit can be driven from 555 osc perhaps the pulse width can
be controlled from a feedback voltage taken off the output of the
power supply.
I am thinking adding a small winding to the transformer rectifying and
filtering it and supplying this back to control the pulse width of
your osc.

JImmie

```
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s9g2000prg.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted, Diodes
Date: Thu, 28 Aug 2008 13:31:21 -0700 (PDT)
Organization: http://groups.google.com
Lines: 54
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Injection-Info: s9g2000prg.googlegroups.com; posting-host=192.25.142.225;
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Xref: g2news1.google.com rec.radio.amateur.homebrew:530
```

On Aug 28, 6:25=A0am, Tim Shoppa <sho...@trailing-edge.com> wrote:
> On Aug 28, 7:29=A0am, raypsi <RBorow...@gmail.com> wrote:

>
> > On Aug 27, 3:58 pm, K7ITM <k7...@msn.com> wrote:
> > > I'd bet that the shorted-turn effect is very much larger than the
> > > permeability effect with respect to changing the inductance of the
> > > oscillator coil.
>
> > > Cheers,
> > > Tom
>
> > I agree, except Air has no permeability, you can't magnetize air. You
> > can't magnetize brass.
>
> I think you're confusing permeability with susceptibility. Even vacuum
> has non-zero permeability.
>
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> The "little" is key for the PTO designs I mention, it allows rather
> fine tuning with very simple mechanicals. If I think of it as shorting
> turns as it moves in, that is completely out of whack in my head with
> the observed changes, because shorting all the turns causes a big
> change in inductance, not a small one.
>
> Tim N3QE

Hi Tim,

OK, a 'speriment for you, and another way of looking at it that will yield the same result:

Make two "slugs," one solid and one hollow. If it's permeability that's doing it, the hollow one (with thin shell, of course) will have considerably less effect. If it's the "shorted turn" effect, both will be about the same.

Consider that there is no time-varying magnetic field inside a shell made out of good conductor--really zero if it's a superconductor, but dropping to practically zero after a few skin depths. So you are removing a volume of magnetic field when you put a conducting slug in the coil's field. With less field, there's less energy stored, which implies lower inductance. The same thing happens when you put a coil inside a shield-can: the inductance is reduced. A points that seems to be not well known: the unloaded Q of a helical resonator is less than the Q of the same coil that's not inside a shield. There are graphs available to determine the lowering of inductance by a cylindrical shield around a coil.

Cheers,
Tom

From -2389467516312250928
X-Google-Thread: fc2a5,b05cc66bf132c164,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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From: "Yuri Blanarovich" <K3BU@optonline.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Labor Day Party for Radio Aficionados
Date: Thu, 28 Aug 2008 20:33:00 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
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Lines: 29
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X-Complaints-To: abuse@cv.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:2982

Yuri, K3BU and MountainView Resort in Glen Spey, NY are hosting Labor Day Party with BBQ and live music on Sunday August 31, 2007 at 2:00 pm at the Ardmore Mansion. Special table reserved for Ham Radio aficionados. Check out this enchanting location for the future HamConvention NE. Come and tell the lies and have a great time.

Our famous All-You-Can-Eat Gourmet BBQ
Dance or enjoy the Music of the "Udech" band
Have a great time for only $20/person
Cash Bar: Beer, Wine, Drinks

Come and see the newly renovated
Ardmore Mansion at MountainView
The elegant choice for your wedding,
banquets, retreats & special events
and bring a friend!

Weekend camping at the lake.
Rooms available for rental, call for reservation.

For more info and color poster please see
http://www.mvresort.com/events.htm

MountainView resort, 369 High Rd., Glen Spey, NY
Tel. 845 856-1105
Please contact Yuri, K3BU@optimum.net or cell 973 220-0087 for space reservation.

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From -5869428578812728231
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
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mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Thu, 28 Aug 2008 17:39:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 57
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Xref: g2news2.google.com rec.radio.amateur.homebrew:2983

On Aug 28, 4:02=A0pm, jimmi...@gmail.com wrote:
> On Aug 27, 12:40=A0pm, raypsi <RBorow...@gmail.com> wrote:
>
>
>
>
>
> > finally came across an article by VK3HZ that describes how to make a
> > microwave oven inverter PS work, as a stand alone supply.
> > the link is:www.users.bigpond.net.au/dwsmith/hv_inverter.pdf
>
> > It's only regulated from the primary side. And you can make it put out
> > anything from 2000 to 4000 VDC. but at 1300 watts.
>
> > So all I have to do is load down the primary to fake out the regulator
> > into seeing 1300 watts, Or run class A.
>
> > The output or the input still has to be filtered
>
> > There's an opto coupler that has to see a 110hz square wave, according
> > to VK3HZ, that'll keep the supply running full tilt as long as there
> > is power supplied to the inverter.
>
> > 73
> > n8zu
>
> If the circuit can be driven from 555 osc perhaps the pulse width can
> be controlled from a feedback voltage taken off the output of the
> power supply.
> I am thinking adding a small winding to the transformer rectifying and
> filtering it and supplying this back to control the pulse width of
> your osc.
>
> JImmie- Hide quoted text -
>
> - Show quoted text -

I was the OP of the origonal thread about the inverter power supplies.
I was actually more interested in learning about the design of the
power supplies so I could possibly build one from scratch. With the
right information this may be easier to do than to modify one from a
microwave oven. I am very grateful for the information. I have a
couple of the Panasonic power supplies unfortunately they dont work
but maybe I can repair them now that I have a schematic. Information
on the transformer would be a good thing to have as I am sure it could
be optimized for the desired output voltage and current needed for an
amateur amplifier.

With the current transformer on the front end I am guessing this may
be the feedback path for regulation. That is to say the power supply
is being controlled by the amount of current that is being drawn on
the input side of the power supply. If this is the case maybe this
input can be taken of the out put of the power supply and then the
supply could be voltage regulated instead of being power regulated.


Jimmie


From -6131522098266921647
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mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted, Diodes
Date: Fri, 29 Aug 2008 03:53:51 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
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Xref: g2news2.google.com rec.radio.amateur.homebrew:2984
```

On Aug 28, 9:25 am, Tim Shoppa <sho...@trailing-edge.com> wrote:

>
> > I agree, except Air has no permeability, you can't magnetize air. You
> > can't magnetize brass.
>
> I think you're confusing permeability with susceptibility. Even vacuum
> has non-zero permeability.

The definition I found for:
Permeability (electromagnetism), is the degree of magnetization of a
material in response to a magnetic field

In this case 1 means no permeability.

73

n9zu

```
From -2689182245776787950
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From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted, Diodes
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Date: Fri, 29 Aug 2008 04:08:43 -0700 (PDT)
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Xref: g2news2.google.com rec.radio.amateur.homebrew:2985

On Aug 28, 4:31 pm, K7ITM <k7...@msn.com> wrote:
> On Aug 28, 6:25 am, Tim Shoppa <sho...@trailing-edge.com> wrote:
>
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> > On Aug 28, 7:29 am, raypsi <RBorow...@gmail.com> wrote:
>
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> > > > I'd bet that the shorted-turn effect is very much larger than the
> > > > permeability effect with respect to changing the inductance of the
> > > > oscillator coil.
>
> > > > Cheers,
> > > > Tom
>
> > > I agree, except Air has no permeability, you can't magnetize air. You
> > > can't magnetize brass.
>
> > I think you're confusing permeability with susceptibility. Even vacuum
> > has non-zero permeability.
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> > experience, is if I put a brass slug into a solenoid, the inductance
```

> > goes down by a little bit. "Little" is relative to the effect of a
> > ferrite slug, which makes inductance go up by a lot in comparison.
>
> > The "little" is key for the PTO designs I mention, it allows rather
> > fine tuning with very simple mechanicals. If I think of it as shorting
> > turns as it moves in, that is completely out of whack in my head with
> > the observed changes, because shorting all the turns causes a big
> > change in inductance, not a small one.
>
> > Tim N3QE
>
> Hi Tim,
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> OK, a 'speriment for you, and another way of looking at it that will
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>
> Make two "slugs," one solid and one hollow. If it's permeability
> that's doing it, the hollow one (with thin shell, of course) will have
> considerably less effect. If it's the "shorted turn" effect, both
> will be about the same.
>
> Consider that there is no time-varying magnetic field inside a shell
> made out of good conductor--really zero if it's a superconductor, but
> dropping to practically zero after a few skin depths. So you are
> removing a volume of magnetic field when you put a conducting slug in
> the coil's field. With less field, there's less energy stored, which
> implies lower inductance. The same thing happens when you put a coil
> inside a shield-can: the inductance is reduced. A points that seems
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> than the Q of the same coil that's not inside a shield. There are
> graphs available to determine the lowering of inductance by a
> cylindrical shield around a coil.
>
> Cheers,
> Tom
I agree Tom
It's not permeability that changes the inductance it's the mutual
inductance that is changing the inductance.
Any metal brought near a coil acts like another coil. If that coil is
out of phase. Then the inductance is lowered.
So with brass it's not the permeability it's the inductance of the
brass slug and the mutual inductance of the 2 coils that varies the
total inductance, of the main coil that the brass slug is in.

Towit a brass slugged adjustable coil is just a variometer.

73
n8zu

From -4998034642391443384
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet

X-Google-Language: ENGLISH,ASCII-7-bit
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From: "Dwight D. Eisenhower" <rottedHonda@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: lot #3 old radio estate sale items-tube CB's-RF generator-SWR/RF meter-more
Date: Fri, 29 Aug 2008 04:20:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 44
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http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZ66Q2dcatalina

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 $20.00  6d 14h 28m
  STARLITE MINI ANTIQUE VINTAGE TUBE RADIO-powersup-works     - $9.98
 $10.00  6d 14h 28m
  RCA VINTAGE ANTIQUE HI-FI AM/FM TUNER-TUBE AMPED-RARE-$     - $9.98
 $20.00  6d 14h 28m
  FIRESTONE VINTAGE WOOD RADIO-TUBE AMPED-POWERS UP-$$$$$     - $9.98
 $20.00  6d 14h 28m
  VINTAGE PLASTIC BAKELITE OLYMPIC TUBE RADIO-IT WORKS !!     - $9.98
 $20.00  6d 14h 28m
  ARVIN MOD.544A WHITE BAKELITE TUBE RADIO-AM/FM-c.1947-$     - $9.98
 $15.00  6d 14h 28m
  EMERSON BAKELITE TUBE RADIO-tested/working-antique-$$$$     - $9.98
 $15.00  6d 14h 28m
  RADIOLA PLASTIC BAKELITE RADIO-TUBE-model 61-8-powersUP     - $9.98
 $20.00  6d 14h 28m
  STROMBERG CARLSON ANTIQUE TUBE RADIO-PARTS/FIX-$$$$$$$$     - $9.98
 $15.00  6d 14h 28m
  ADMIRAL 6Q12N VINTAGE ANTIQUE BAKELITE RADIO-TUBES-$$$$     - $9.98
 $15.00  6d 14h 28m
  RCA VICTOR TUBE AMPED RADIO-mod 1X592-clear sound-works     - $9.98
 $20.00  6d 14h 28m
  ANTIQUE ZENITH BAKELITE PLASTIC RADIO-IT WORKS !!-$$$$$     - $9.98
 $20.00  6d 14h 28m
  MOTOROLA BAKELITE PLASTIC RADIO/CHASSIS-for parts/fix-$     - $9.98
 $15.00  6d 14h 28m
  HEATHKIT PRECISION FIELD STRENTH-SWR-XTAL METER-HAM/CB-     - $24.99
 $15.00  6d 14h 28m
  HEATHKIT PRECISION FIELD STRENTH-SWR-XTAL METER-HAM/CB-     - $24.99
 $15.00  6d 14h 28m
  DELCO AM/FM/SHORTWAVE FRONT DIAL GLASS/PANEL-NICE-$$$$$     - $9.98
 $20.00  6d 14h 28m
  DEVRY RF SIGNAL GENERATOR-RADIO HOBBYIST ESTATE SALE-$$     - $9.98
 $15.00  6d 14h 28m
  DEVRY RF SIGNAL GENERATOR-RADIO HOBBYIST ESTATE SALE-$$     - $9.98
 $15.00  6d 14h 28m
  (2) VINTAGE TUBE CLOCK RADIOS-GE and ARVIN-both working     - $9.98
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 $20.00  6d 14h 28m
  LAFAYETTE COMSTAT-25 VINTAGE TUBE CB RADIOS-8 CHANNEL-$     - $9.98
 $20.00  6d 14h 28m
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mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted, Diodes
Date: Fri, 29 Aug 2008 10:07:25 -0700 (PDT)
Organization: http://groups.google.com
Lines: 97
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Xref: g2news1.google.com rec.radio.amateur.homebrew:536

On Aug 29, 4:08=A0am, raypsi <RBorow...@gmail.com> wrote:
> On Aug 28, 4:31 pm, K7ITM <k7...@msn.com> wrote:
>
> > On Aug 28, 6:25 am, Tim Shoppa <sho...@trailing-edge.com> wrote:
>
> > > On Aug 28, 7:29 am, raypsi <RBorow...@gmail.com> wrote:
>
> > > > On Aug 27, 3:58 pm, K7ITM <k7...@msn.com> wrote:
> > > > > I'd bet that the shorted-turn effect is very much larger than the
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> total inductance, of the main coil that the brass slug is in.
>
> Towit a brass slugged adjustable coil is just a variometer.
>
> 73
> n8zu

Kind of a variometer with external connections to only one of the
coils and the other one shorted out, I suppose. ;-) If you have an
actual variometer with two coils you can put in series, you can get
significantly more inductance variation than with a brass (or copper)
slug. In the case of series coils, you can both add and subtract:
you get the sum of the self-inductances of the two coils, plus OR
minus the sum of the mutual inductances. If the coils are tightly
coupled (not particularly easy to make, mechanically, for one coil
rotatable inside another...), the mutual inductances are nearly equal
to the self inductances--so for example if k=3D0.8 max and the coil self-
inductances are 1uH each, you can vary between 0.4uH and 3.6uH total,
a 9:1 variation. If you could manage to squeeze k(max) up to 0.9
through some heroic effort, you could go from 0.2uH to 3.8uH or 19:1
variation, enough to tune a tank over a 4:1 frequency ratio. Q isn't
very good with the coils opposing, though, since you still have the
same copper losses as when the coils are aiding.

Cheers,
Tom

From 64523758176133172

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nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 31 Aug 2008 13:00:17 -0500
From: confused <confused.300917e@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: info wanted
Date: Sun, 31 Aug 2008 17:05:11 +0100
Message-ID: <confused.300917e@radiobanter.com>
Organization: RadioBanter.com
Lines: 10
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X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Lines: 2
Xref: g2news1.google.com rec.radio.amateur.homebrew:537

anyone seen a surface mount part only markings on it are d k 9 z.it's on
a kenwood handheld tranceiver of mine which has burnt out.would
appreciate any info?
many thanks

--
confused

From -6822739377221477350
X-Google-Thread: fc2a5,2d7f98195bb4c2a8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Sun, 31 Aug 2008 17:02:46 -0500
From: Joe LeKostaj <joe@falseaddress2004.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: info wanted
References: <confused.300917e@radiobanter.com>
User-Agent: MT-NewsWatcher/3.4 (PPC Mac OS X)
Date: Sun, 31 Aug 2008 17:02:46 -0500

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X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:538

Is it a plastic bodied component? Does it have one terminal at each end?
If yes, I'm guessing it's a diode.

-Joe

In article <confused.300917e@radiobanter.com>,
confused <confused.300917e@radiobanter.com> wrote:

> anyone seen a surface mount part only markings on it are d k 9 z.it's on
> a kenwood handheld tranceiver of mine which has burnt out.would
> appreciate any info?
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From -2619569441418725295
X-Google-Thread: fc2a5,2d7f98195bb4c2a8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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NNTP-Posting-Date: Mon, 01 Sep 2008 07:00:06 -0500
From: confused <confused.3018e9c@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: info wanted
Date: Mon, 1 Sep 2008 08:50:08 +0100
Message-ID: <confused.3018e9c@radiobanter.com>
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References: <confused.300917e@radiobanter.com>
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X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
X-Original-Lines: 18
Xref: g2news1.google.com rec.radio.amateur.homebrew:539

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> many thanks-

hi joe thanks for your response.it has 3 pins on one side and on
thicker pin like a small heatsink looks like this
http://tinyurl.com/5ltz2j
i'd appreciate any help on where to get another or an equivalant.i've
looked through shed loads of smt code books online cant find same
code.i've tried contacting kenwood????

thankyou

--
confused

From -8159677424676456088
X-Google-Thread: fc2a5,2d7f98195bb4c2a8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <confused.300917e@radiobanter.com>
<joe-5AD602.17024631082008@comcast.dca.giganews.com>

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NNTP-Posting-Date: Mon, 01 Sep 2008 13:00:07 UTC
Date: Mon, 1 Sep 2008 09:00:00 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:540

Ahh, so its a transistor

Do you have a schematic? Is there another transistor with the same markings?

A lot of times transistors are pretty generic and you can throw in "any old thing". If that is the case, you should be able to tell from the schematic. If not, and you have another, perhaps someone has a semiconductor analyzer and can measure the parameters of a good one, and then you can figure a replacement based on the parameters.

Of course, you would hope that Kenwood would be anxious to help

..

"confused" <confused.3018e9c@radiobanter.com> wrote in message
news:confused.3018e9c@radiobanter.com...
>
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> looked through shed loads of smt code books online cant find same
> code.i've tried contacting kenwood????
>
> thankyou
>
>
>
>
> --
> confused

From -1074764953008962210
X-Google-Thread: fc2a5,2d7f98195bb4c2a8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 01 Sep 2008 08:50:24 -0500
From: Joe LeKostaj <joe@falseaddress2004.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: info wanted
References: <confused.300917e@radiobanter.com>
<joe-5AD602.17024631082008@comcast.dca.giganews.com>
<confused.3018e9c@radiobanter.com>
User-Agent: MT-NewsWatcher/3.4 (PPC Mac OS X)
Date: Mon, 01 Sep 2008 08:50:22 -0500
Message-ID: <joe-CDE3A1.08502201092008@comcast.dca.giganews.com>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.14.38.36
X-Trace: sv3-ZQhM9k32PHS7uM6b/
QCt9gh+sM9IofDhsXkH28Qw+ioXU4ke4TFysnIJXehPyNlFDJqgd2+vOZ+fpjv!
+Q9HLBhNGhIQqsLuwJw4btN2FYt3sVoude6ZUa/Iw07PDBUPsbDuiVo98J8+Qfkn50RSXj03dxxW!
SfJCUG/fMz76ddYr7JfRE3EuCGMEZwY/Xfs=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:541

In article <confused.3018e9c@radiobanter.com>,
confused <confused.3018e9c@radiobanter.com> wrote:
>

> hi joe thanks for your response.it has 3 pins on one side and on
> thicker pin like a small heatsink looks like this
> http://tinyurl.com/5ltz2j
> i'd appreciate any help on where to get another or an equivalant.i've
> looked through shed loads of smt code books online cant find same
> code.i've tried contacting kenwood????
>
> thankyou

It could be a transistor as the other poster mentioned, but it could also be a voltage regulator IC. Your best bet would be to obtain a schematic and/or parts location diagram for your radio to help ID the component. Then your next stop would be Digi-Key or Mouser to look for a replacement.

Also, try to determine what caused the part to fail before installing the new one so it doesn't meet the same fate.

-Joe

From 5333718984619220729
X-Google-Thread: fc2a5,2d7f98195bb4c2a8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 01 Sep 2008 09:07:37 -0500
Date: Mon, 01 Sep 2008 15:07:29 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: info wanted
References: <confused.300917e@radiobanter.com> <joe-5AD602.17024631082008@comcast.dca.giganews.com> <confused.3018e9c@radiobanter.com> <joe-CDE3A1.08502201092008@comcast.dca.giganews.com>
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Lines: 29
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NNTP-Posting-Host: 81.178.85.225
X-Trace: sv3-ovSpP8I/mIKOh0vJYrFtON4fZ3v1ErsD5YTvxIcqqyNK/lU+3z1O7K4b3WoDj70Eg4iePgr1XaoMh8f!y3b+6BqHftXktq4wohz1ExHGElXS6MVWlI8rX93xkphh0QUuCXTCySwwDxtdmo+RMJNl6q3VJPEt!WFg/bBvk8yZcmbgMqI2bw25xyQ==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers

X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:542

Joe LeKostaj wrote:
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> the new one so it doesn't meet the same fate.
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The OP did not mention the handheld radio model ,other than it is from
Kenwood. An instruction manual with circuit diagramme(s) of the
relevant radio can highly likely be found at : www.mods.dk

Frank   GM0CSZ / KN6WH

From -7670247787149556979
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!p25g2000hsf.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Mon, 1 Sep 2008 16:48:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 82
Message-ID: <2f1f1e91-495b-4a83-b341-648724245d06@p25g2000hsf.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
     <91ebb146-390b-4f57-9ebf-700165e1dfd4@m73g2000hsh.googlegroups.com>
     <91d34a93-1f80-4795-a0fd-67c4be7c6790@l42g2000hsc.googlegroups.com>
NNTP-Posting-Host: 76.226.207.25

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Content-Transfer-Encoding: quoted-printable
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NNTP-Posting-Date: Mon, 1 Sep 2008 23:48:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:543

On Aug 28, 8:39=A0pm, jimmi...@gmail.com wrote:
> On Aug 28, 4:02=A0pm, jimmi...@gmail.com wrote:
>
>
>
>
>
> > On Aug 27, 12:40=A0pm, raypsi <RBorow...@gmail.com> wrote:
>
> > > finally came across an article by VK3HZ that describes how to make a
> > > microwave oven inverter PS work, as a stand alone supply.
> > > the link is:www.users.bigpond.net.au/dwsmith/hv_inverter.pdf
>
> > > It's only regulated from the primary side. And you can make it put ou=
t
> > > anything from 2000 to 4000 VDC. but at 1300 watts.
>
> > > So all I have to do is load down the primary to fake out the regulato=
r
> > > into seeing 1300 watts, Or run class A.
>
> > > The output or the input still has to be filtered
>
> > > There's an opto coupler that has to see a 110hz square wave, accordin=
g
> > > to VK3HZ, that'll keep the supply running full tilt as long as there
> > > is power supplied to the inverter.
>
> > > 73
> > > n8zu
>
> > If the circuit can be driven from 555 osc perhaps the pulse width can
> > be controlled from a feedback voltage taken off the output of the
> > power supply.
> > I am thinking adding a small winding to the transformer rectifying and
> > filtering it and supplying this back to control the pulse width of
> > your osc.
>
> > JImmie- Hide quoted text -
```

>
> > - Show quoted text -
>
> I was the OP of the origonal thread about the inverter power supplies.
> I was actually more interested in learning about the design of the
> power supplies so I could possibly build one from scratch. With the
> right information this may be easier to do than to modify one from a
> microwave oven. I am very grateful for the information. I have a
> couple of the Panasonic power supplies unfortunately they dont work
> but maybe I can repair them now that I have a schematic. Information
> on the transformer would be a good thing to have as I am sure it could
> be optimized for the desired output voltage and current needed for an
> amateur amplifier.
>
> With the current transformer on the front end I am guessing this may
> be the feedback path for regulation. That is to say the power supply
> is being controlled by the amount of current that is being drawn on
> the input side of the power supply. If this is the case maybe this
> input can be taken of the out put of the power supply and then the
> supply could be voltage regulated instead of being power regulated.
>
> Jimmie- Hide quoted text -
>
> - Show quoted text -

Hey Jimmie

I suppose that you could use the duty cycle feature of this supply to
control the output
but I'd need a bank of 450WVDC caps to supply filtering.
So say the power of the amp drops: the supply will compensate by
increasing the voltage
But with feedback I could drop the duty cycle thru the opto coupled
input. Thus causing a drop in voltage which the filter would handle.
By running the inverter at another lower duty cycle I can control the
output voltage.

I would suggest at least a bank of 16, 450WVDC for a little head room.
Plus that would take out the 120 cycle ripple.

73

n8zu

From -5517586357269124095
X-Google-Thread: fc2a5,2d7f98195bb4c2a8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 01 Sep 2008 19:00:35 -0500

From: confused <confused.302375b@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: info wanted
Date: Mon, 1 Sep 2008 23:30:28 +0100
Message-ID: <confused.302375b@radiobanter.com>
Organization: RadioBanter.com
References: <confused.300917e@radiobanter.com>
<joe-5AD602.17024631082008@comcast.dca.giganews.com>
<confused.3018e9c@radiobanter.com> <joe-
CDE3A1.08502201092008@comcast.dca.giganews.com>
<w5udnTyrqtO0aibVnZ2dnUVZ8hydnZ2d@pipex.net>
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VpO4LA==
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Lines: 31
Xref: g2news1.google.com rec.radio.amateur.homebrew:544

Highland Ham;644645 Wrote:
> Joe LeKostaj wrote:-
> In article confused.3018e9c@radiobanter.com,
> confused confused.3018e9c@radiobanter.com wrote:-
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> thicker pin like a small heatsink looks like this
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> i'd appreciate any help on where to get another or an equivalant.i've
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hi,
thanks to all responders .there are three on the same board.the model
is a th-26 handheld 2m.i've checked all the surrounding resistors and
nearby passives .i think its a power supply problem.i dont want to
power it up yet until i find out what this part doesi dont want to take
another one of these ants lol out and check it out of circuit.smt is not
my thing.i've searched for a free schematic so if anyone out there's got
the schematic that'll be great .i'll take on board what you guys have
said many thanks for taking the time.

--
confused

From 5162276993136888889
X-Google-Thread: fc2a5,2d7f98195bb4c2a8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!r66g2000hsg.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: info wanted
Date: Mon, 1 Sep 2008 17:49:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 71
Message-ID: <e204d6d8-bd20-41ca-87b3-71d976ad02a5@r66g2000hsg.googlegroups.com>
References: <confused.300917e@radiobanter.com>
<joe-5AD602.17024631082008@comcast.dca.giganews.com>
<confused.3018e9c@radiobanter.com> <joe-CDE3A1.08502201092008@comcast.dca.giganews.com>
<w5udnTyrqtO0aibVnZ2dnUVZ8hydnZ2d@pipex.net>
<confused.302375b@radiobanter.com>
NNTP-Posting-Host: 76.226.207.25
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 2 Sep 2008 00:49:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r66g2000hsg.googlegroups.com; posting-host=76.226.207.25;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap

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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:545

On Sep 1, 6:30=A0pm, confused <confused.3023...@radiobanter.com> wrote:
> Highland Ham;644645 Wrote:
>
>
>
>
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> > Joe LeKostaj wrote:-
> > In article confused.3018...@radiobanter.com,
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```

> the schematic that'll be great .i'll take on board what you guys have
> said many thanks for taking the time.
>
> --
> confused- Hide quoted text -
>
> - Show quoted text -

More than likely your talking about a transistor maybe a mosfet
The center lead is the collector or drain.
Look for the same numbers on other parts
and measure the forward to back ratio. To determine the kind of
semi it is. should be quite ez. Mostly they using transistors like
this for switching or buffers
so I don't think it could be a darlington.
It's either a npn or pnp.
less likely a FET n channel or p channel
It could still be a zener or a dual diode
Zeners they connect the 2 leads together
And a dual diode will have the same reading on each junction.

73
n8zu

```
From 872435171436335536
X-Google-Thread: fc2a5,e69d33ee065dd08a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
m45g2000hsb.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven inverter P.S. revisited
Date: Mon, 1 Sep 2008 18:57:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 117
Message-ID: <eff414ad-3498-41b5-b0d3-0c8c2bc67daf@m45g2000hsb.googlegroups.com>
References: <cac80340-0d7d-43de-a5d1-ddac0e576fcb@79g2000hsk.googlegroups.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1220320648 13316 127.0.0.1 (2 Sep 2008 01:57:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 2 Sep 2008 01:57:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m45g2000hsb.googlegroups.com; posting-host=75.190.189.120;
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User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:546

On Sep 1, 7:48=A0pm, raypsi <RBorow...@gmail.com> wrote:
> On Aug 28, 8:39=A0pm, jimmi...@gmail.com wrote:
>
>
>
>
>
> > On Aug 28, 4:02=A0pm, jimmi...@gmail.com wrote:
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> > > On Aug 27, 12:40=A0pm, raypsi <RBorow...@gmail.com> wrote:
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> > > > microwave oven inverter PS work, as a stand alone supply.
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out
> > > > anything from 2000 to 4000 VDC. but at 1300 watts.
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> > the input side of the power supply. If this is the case maybe this
> > input can be taken of the out put of the power supply and then the
> > supply could be voltage regulated instead of being power regulated.
>
> > Jimmie- Hide quoted text -
>
> > - Show quoted text -
>
> Hey Jimmie
>
> I suppose =A0that you could use the duty cycle feature of this supply to
> control the output
> but I'd need a bank of 450WVDC caps to supply filtering.
> So say the power of the amp drops: the supply will compensate by
> increasing the voltage.

.
> But with feedback I could drop the duty cycle thru the opto coupled
> input. Thus causing a drop in voltage which the filter would handle.
> By running the inverter at another lower duty cycle I can control the
> output voltage.
>
> I would suggest at least a bank of 16, 450WVDC for a little head room.
> Plus that would take out the 120 cycle ripple.
>
> 73
>
> n8zu- Hide quoted text -
>
> - Show quoted text -

Thats pretty much my idea.
In radars something very similar to develop 6KV to charge the PFN. If
you could analyze the circuit where the current sample is picked off
the AC mains that would tell us a lot about what would be needed to
develop the proper feedback signal off of the switching transformer.
Unfortunately I am without power supply at the moment. Well I have one
but my wife has forbid me to touch it. That is her primary cooking
device As Dave idicated the rectifiers for the output of the pwer
supply are configured as a doubler and it could be configured as a
bridge if you wanted lower voltage. I am thinking maybe(a lot of

supposig here) this thing may be configured from 1500 to nearly 5kv by using a combination af feedback adjustment and rectifier configuration.

I agree with about the caps,

I emailed Dave and he pretty much agrees with my idea at least in theory but he has dropped the project at least for now.

didnt you say you had a source for these power supplies.

Anyone who gets this to work would surely have some serious ham radio bragging rights.

Jimmie

```
From 4026411912308130984
X-Google-Thread: fc2a5,2d7f98195bb4c2a8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out01b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx02.iad01.newshosting.com!newshosting.com!130.81.64.211.MISMATCH!
cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc06.POSTED!1bc6af47!
not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <confused.300917e@radiobanter.com>
<joe-5AD602.17024631082008@comcast.dca.giganews.com>
<confused.3018e9c@radiobanter.com> <joe-
CDE3A1.08502201092008@comcast.dca.giganews.com>
<w5udnTyrqtO0aibVnZ2dnUVZ8hydnZ2d@pipex.net>
Subject: Re: info wanted
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <i43vk.207$Af3.14@trnddc06>
Date: Tue, 02 Sep 2008 04:14:06 GMT
NNTP-Posting-Host: 71.104.215.85
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc06 1220328846 71.104.215.85 (Tue, 02 Sep 2008 00:14:06 EDT)
NNTP-Posting-Date: Tue, 02 Sep 2008 00:14:06 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:547
```

> ==
> The OP did not mention the handheld radio model ,other than it is from
> Kenwood. An instruction manual with circuit diagramme(s) of the
> relevant radio can highly likely be found at : www.mods.dk
>

> Frank   GM0CSZ / KN6WH

The Service Manuals are available either as a free download from various places or can be bought online and shipped overnight for a decent price. All I have seen have extensive parts lists and detailed schematics and board prints. You head needs to be there if the part is unknown. It could be bipolar, fet, or even a regulator. If you don't know what model radio you have, why not?

```
From 2002113103210622440
X-Google-Thread: fc2a5,2d7f98195bb4c2a8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!v16g2000prc.googlegroups.com!not-for-mail
From: Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: info wanted
Date: Tue, 2 Sep 2008 02:41:41 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <b19ff922-ad68-4077-8b1b-227fcadea55a@v16g2000prc.googlegroups.com>
References: <confused.300917e@radiobanter.com>
NNTP-Posting-Host: 218.215.179.245
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1220348501 4727 127.0.0.1 (2 Sep 2008 09:41:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 2 Sep 2008 09:41:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v16g2000prc.googlegroups.com; posting-host=218.215.179.245;
     posting-account=LRLqpgkAAACt8OsWZnclc0j8ufDGwSA0
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.16)
     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:548
```

On Sep 1, 2:05 am, confused <confused.3009...@radiobanter.com> wrote:

> anyone seen a surface mount part only markings on it are d k 9 z.it's on
> a kenwood handheld tranceiver of mine which has burnt out.would
> appreciate any info?
> many thanks
>
> --
> confused

you need to do it logically and scientifically, which is the basis of our hobby.

1.Get the service manual.
2.Get the part no, try Kenwood, if no go, then
3.Look at circuit diagram, identify component, replace with similar - its unlikely to be critical.

I suspect you are out of your depth at this stage in your amateur career, and perhaps it would be wise to seek the help of a local technician or knowledgeable amateur - your local club could probably help with contact details...

Andrew VK3BFA.

```
From 7919784383309049737
X-Google-Thread: fc2a5,2d7f98195bb4c2a8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 02 Sep 2008 05:08:22 -0500
Date: Tue, 02 Sep 2008 11:08:15 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: info wanted
References: <confused.300917e@radiobanter.com>
<joe-5AD602.17024631082008@comcast.dca.giganews.com>
<confused.3018e9c@radiobanter.com> <joe-
CDE3A1.08502201092008@comcast.dca.giganews.com>
<w5udnTyrqtO0aibVnZ2dnUVZ8hydnZ2d@pipex.net> <confused.302375b@radiobanter.com>
In-Reply-To: <confused.302375b@radiobanter.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <rpCdnfvqmJMLjSDVRVnytAA@pipex.net>
Lines: 57
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.85.225
X-Trace: sv3-
FN6jsRvyDTrTojE9qvIsyWrWEVG8+pCtSvomMK9ES3zyVVQzy7BKOTjPJ2KI4XysJVrH+frJm/2Ul6z!+
+8hOTrUVTDEUfz1dMp7hQMW9S4dTPE4n4typW1LnenYhBbu+R5YjGfuZN5+2k0DqCJykxq2Zkjp!
UnYwx6QgScilfw==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:549
```

confused wrote:
> Highland Ham;644645 Wrote:

>> Joe LeKostaj wrote:-
>> In article confused.3018e9c@radiobanter.com,
>> confused confused.3018e9c@radiobanter.com wrote:-
>> hi joe thanks for your response.it has 3 pins on one side and on
>> thicker pin like a small heatsink looks like this
>> http://tinyurl.com/5ltz2j
>> i'd appreciate any help on where to get another or an equivalant.i've
>> looked through shed loads of smt code books online cant find same
>> code.i've tried contacting kenwood????
>>
>> thankyou-
>>
>> It could be a transistor as the other poster mentioned, but it could
>> also be a voltage regulator IC. Your best bet would be to obtain a
>> schematic and/or parts location diagram for your radio to help ID the
>>
>> component. Then your next stop would be Digi-Key or Mouser to look for
>> a
>> replacement.
>>
>> Also, try to determine what caused the part to fail before installing
>>
>> the new one so it doesn't meet the same fate.
>>
>> -Joe-
>> ==
>> The OP did not mention the handheld radio model ,other than it is from
>>
>> Kenwood. An instruction manual with circuit diagramme(s) of the
>> relevant radio can highly likely be found at : www.mods.dk
>>
>> Frank   GM0CSZ / KN6WH
>
> hi,
> thanks to all responders .there are three on the same board.the model
> is a th-26 handheld 2m.i've checked all the surrounding resistors and
> nearby passives .i think its a power supply problem.i dont want to
> power it up yet until i find out what this part doesi dont want to take
> another one of these ants lol out and check it out of circuit.smt is not
> my thing.i've searched for a free schematic so if anyone out there's got
> the schematic that'll be great .i'll take on board what you guys have
> said many thanks for taking the time.
===
Have a look at www.mods.dk
Manuals ----> Kenwood
TH-26 Instruction Manual .zip
TH-26 Service Manual.zip

You can only download 1 manual within a 24 hrs period unless you make a
donation towards maintenance of the web site.
So 1 manual today ,another manual tomorrow ,etc

Frank   GM0CSZ / KN6WH

```
From 6983370264311088899
X-Google-Thread: fc2a5,9cb9f1f51325e25f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!k30g2000hse.googlegroups.com!not-for-
mail
From: vinnygalbo@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SOLA Power supplies
Date: Tue, 2 Sep 2008 09:00:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 15
Message-ID: <a019f100-2265-452d-9733-0abb40647892@k30g2000hse.googlegroups.com>
References: <0ab4170d-4c13-409c-a627-d23cd05e9739@79g2000hsk.googlegroups.com>
NNTP-Posting-Host: 66.195.47.2
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1220371249 13840 127.0.0.1 (2 Sep 2008 16:00:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 2 Sep 2008 16:00:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k30g2000hse.googlegroups.com; posting-host=66.195.47.2;
     posting-account=TX-NbgoAAACAdfWNdf6autaBhuaOgmJ0
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:550
```

On Jul 27, 5:40=A0am, jimmi...@gmail.com wrote:

> I have a few SOLA brick type power supplies that were given to me. I
> am looking for schematics so I can repair them. On some the problems
> were pretty obvious. Bad filter caps, rectifiers pass transistors.
> These were easy to repair. I suspect they are all type 723 regulator
> based but I am not absolutely sure as one power supply has an IC that
> is clearly an op-amp, this does not appear to be an origonal chip.
> Other power supplies have parts missing. Any help would be greatly
> appreciated.
>
> Jimmie.

The follwing page might help.

http://www.clrwtr.com/Sola-Hevi-Duty-Product-Selection-Guide.htm

---

```
From 1150235289480580250
X-Google-Thread: fc2a5,8dde30c2ad8403a9,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 02 Sep 2008 15:12:26 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Heterodyne conversion crystals
From: Gary@ removenospamandputkf9cm.com
Date: Tue, 2 Sep 2008 20:12:40 GMT
X-Newsreader: News Rover 12.2.0 (http://www.NewsRover.com)
Message-ID: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
Lines: 9
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-QD4zmBG/
KOHW1YcwR3MTXjvDf0XMcITz0YHSOvgBVPxey3AoskJTtJmEEPy1DhH1iHU8HAvW9lKnLqR!
gGO+KUcaloYVJcPVIFzFUOXzRvVidTKtX5/kBTY8k0c//zAuAByAtTirZ0j54U8bQi6VdNnsFdk=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:551

I am looking for some Heterodyne conversion crystals for a receiver I am making.
The frequencies are: 5 MHz, 7 MHz, 10.5 MHz, 13.5 MHz, 17.5 MHz and 21.5 MHz.
The variable mixing frequency will be from 3 to 3.5 MHz. I would prefer all the same type holder.

TNX de Gary, KF9CM

From -5464738487663676449
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a70g2000hsh.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
Date: Wed, 3 Sep 2008 05:16:38 -0700 (PDT)
Organization: http://groups.google.com
Lines: 29
Message-ID: <bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
NNTP-Posting-Host: 76.226.207.25
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

X-Trace: posting.google.com 1220444198 29739 127.0.0.1 (3 Sep 2008 12:16:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 3 Sep 2008 12:16:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a70g2000hsh.googlegroups.com; posting-host=76.226.207.25;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.16)
Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3003

Hey Gary,

Rocks aren't cheap here: http://www.icmfg.com/thruhole_crystals.html
Maybe in 9 land they pave the streets with gold.
Personally I'd go with a programmable divider or PLL.

Maybe you like retro, then I'd get some old rocks the ones
you can take apart and grind them down to git's the freq's you need.
I recall grinding some of these to get them into the novice band back
40 yrs ago.
And putting a pencil mark on the quartz to get them to go down in
frequency.
FT243 style can be found here maybe still: http://www.af4k.com/crystals.htm

73 OM

n8zu

On Sep 2, 4:12 pm, Gary@ removenospamandputkf9cm.com wrote:
> I am looking for some Heterodyne conversion crystals for a receiver I am
> making.
> The frequencies are: 5 MHz, 7 MHz, 10.5 MHz, 13.5 MHz, 17.5 MHz and 21.5
> MHz.
> The variable mixing frequency will be from 3 to 3.5 MHz. I would prefer all
> the same type holder.
>
> TNX de Gary, KF9CM

From -7123639162930436796
X-Google-Thread: fc2a5,cfce51795872c8bb,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc01.POSTED!3b5fc0bf!not-for-mail
From: "Paul P" <REMOVE paul @ REMOVE ppinyot . REMOVEcom>
Newsgroups: rec.radio.amateur.homebrew
Subject: National NC300. Any known popular mods?
Lines: 15

```
Organization: www.ppinyot.com
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Message-ID: <mPxvk.492$Wd.486@trnddc01>
Date: Wed, 03 Sep 2008 15:12:18 GMT
NNTP-Posting-Host: 96.236.156.50
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc01 1220454738 96.236.156.50 (Wed, 03 Sep 2008 11:12:18 EDT)
NNTP-Posting-Date: Wed, 03 Sep 2008 11:12:18 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:3004
X-Original-Bytes: 1212
```

Gentlemen and any Ladies,

I have a National NC300 that I will be restoring. Were there any popular mods to this radio? Also:

Are there any particular problems like a known arching wafer switch?
before I get into this exciting restoration project?
What other Hints and Kinks should I be aware of?

Thanks in advance,

Paul P.

```
From -8250644171595294782
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!d45g2000hsc.googlegroups.com!not-for-
mail
From: Leon <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
Date: Wed, 3 Sep 2008 11:54:01 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <9e2cc09e-2982-4103-b29c-a65a9e2e7e5f@d45g2000hsc.googlegroups.com>
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
NNTP-Posting-Host: 86.135.14.55
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1220468041 15066 127.0.0.1 (3 Sep 2008 18:54:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 3 Sep 2008 18:54:01 +0000 (UTC)
```

```
Complaints-To: groups-abuse@google.com
Injection-Info: d45g2000hsc.googlegroups.com; posting-host=86.135.14.55;
     posting-account=QWZLZQkAAADFmB_RJlmk3T-GvINRaZti
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9.0.1)
     Gecko/2008070208 Firefox/3.0.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3005

On 2 Sep, 21:12, Gary@ removenospamandputkf9cm.com wrote:
> I am looking for some Heterodyne conversion crystals for a receiver I am
> making.
> The frequencies are: 5 MHz, 7 MHz, 10.5 MHz, 13.5 MHz, =A017.5 MHz and 21=
.5
> MHz.
> The variable mixing frequency will be from 3 to 3.5 MHz. I would prefer a=
ll
> the same type holder.
>
> TNX de Gary, KF9CM

The Si570 will generate those frequencies, apart from the 5 MHz.

Leon




From -5819541654292582028
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.acm.uiuc.edu!
news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
Date: Wed, 3 Sep 2008 14:54:17 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 39
Sender: et472@205-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.0809031447550.5386@darkstar.example.org>
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
 <bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
NNTP-Posting-Host: 205-215-235-64-ppp.3menatwork.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1220468052 26070 64.235.215.205 (3 Sep 2008 18:54:12 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 3 Sep 2008 18:54:12 GMT
In-Reply-To: <bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:555

On Wed, 3 Sep 2008, raypsi wrote:
```

> Hey Gary,
>
> Rocks aren't cheap here: http://www.icmfg.com/thruhole_crystals.html
> Maybe in 9 land they pave the streets with gold.
> Personally I'd go with a programmable divider or PLL.
>
> Maybe you like retro, then I'd get some old rocks the ones
> you can take apart and grind them down to git's the freq's you need.

And you can't grind them unless they are quite close to the desired frequency. Grinding by hand will be too uneven, so the crystal will stop working if you try to grind it more than a tiny bit.

It also relies on a big stock of crystals spread around so you can find one sufficiently close enough, something that did seem possible in the years after WWII, but after all this time attrition may have reduced the stock considerably.

And realistically, they also have to be bulky FT-243 holders, since those you can open by removing screws, and the blank is held in place with pressure. More recent holder types require desoldering the case, and figuring out how to remove the blank and then get it back in place when it's soldered in place (or something like that I can't remember how the blank is connected).

One of the odd things is that if one has to buy new crystals, a synthesizer will likely be far cheaper. In the early seventies, synthesizers made a big splash because everyone wanted lots of channels on 2m FM, and the need to have them ground to frequency (and to equipment) made it all very costly, so synthesizers despite their cost and bulk became the norm.

Almost forty years later, a synthesizer for a handful of crystals would still be comparatively bulky, but would be even cheaper than in the early seventies.

Michael VE2BVW

From 5810451223436080731
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.acm.uiuc.edu!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
Date: Wed, 3 Sep 2008 15:10:38 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 34
Sender: et472@205-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.0809031509230.5386@darkstar.example.org>

```
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
 <9e2cc09e-2982-4103-b29c-a65a9e2e7e5f@d45g2000hsc.googlegroups.com>
NNTP-Posting-Host: 205-215-235-64-ppp.3menatwork.com
Mime-Version: 1.0
Content-Type: MULTIPART/MIXED; BOUNDARY="8323328-223055894-1220469038=:5386"
X-Trace: theodyn.ncf.ca 1220469032 26611 64.235.215.205 (3 Sep 2008 19:10:32 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 3 Sep 2008 19:10:32 GMT
In-Reply-To: <9e2cc09e-2982-4103-b29c-a65a9e2e7e5f@d45g2000hsc.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:556

  This message is in MIME format.  The first part should be readable text,
  while the remaining parts are likely unreadable without MIME-aware tools.

--8323328-223055894-1220469038=:5386
Content-Type: TEXT/PLAIN; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: QUOTED-PRINTABLE

On Wed, 3 Sep 2008, Leon wrote:

> On 2 Sep, 21:12, Gary@ removenospamandputkf9cm.com wrote:
>> I am looking for some Heterodyne conversion crystals for a receiver I am
>> making.
>> The frequencies are: 5 MHz, 7 MHz, 10.5 MHz, 13.5 MHz, =A017.5 MHz and 2=
1.5
>> MHz.
>> The variable mixing frequency will be from 3 to 3.5 MHz. I would prefer =
all
>> the same type holder.
>>
>> TNX de Gary, KF9CM
>
> The Si570 will generate those frequencies, apart from the 5 MHz.
>
> Leon
>
>
Of course, 5MHz is the one in the bunch that is bound to be easy
to get (and if it's not, 10MHz makes it almost as easy) and
would provide the clock for the synthezier if it needs an external
one.

   Michael  VE2BVW

--8323328-223055894-1220469038=:5386--


From 6651715278427318086
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out03a.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!spln!
```

extra.newsguy.com!newsp.newsguy.com!news4
From: Registered User <n4jvp@ix.netcom.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
Date: Wed, 03 Sep 2008 15:57:37 -0400
Organization: subdevo.com
Lines: 37
Message-ID: <khptb4hqblcihdmq4igk9s64kcoc0cr5qo@4ax.com>
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
<bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
<Pine.LNX.4.64.0809031447550.5386@darkstar.example.org>
Reply-To: n4jvp@ix.netcom.com
NNTP-Posting-Host: p54d2bfbfff00000018ef71bf85c5fb6a758635e14dfff6e7.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Newsreader: Forte Agent 3.3/32.846
Xref: g2news2.google.com rec.radio.amateur.homebrew:3008

On Wed, 3 Sep 2008 14:54:17 -0400, Michael Black <et472@ncf.ca> wrote:

>On Wed, 3 Sep 2008, raypsi wrote:
>
>> Hey Gary,
>>
>> Rocks aren't cheap here: http://www.icmfg.com/thruhole_crystals.html
>> Maybe in 9 land they pave the streets with gold.
>> Personally I'd go with a programmable divider or PLL.
>>
>> Maybe you like retro, then I'd get some old rocks the ones
>> you can take apart and grind them down to git's the freq's you need.
>
>And you can't grind them unless they are quite close to the desired
>frequency. Grinding by hand will be too uneven, so the crystal will
>stop working if you try to grind it more than a tiny bit.
>
My personal experience is an FT-243 crystal's frequency can be
increased by several hundred kilohertz through grinding. A more
abrasive media is needed for the slurry than scouring powder can
provide. Permatex 34A valve grinding compound works FB. Most of my 80M
rocks (26 between 3.5 & 3.6 MHz) were originally cut for 3237 kHz.
Many of my 40M crystals were moved several hundred kHz as well.

The key to grinding is not to try doing too much at once. Let the
abrasive do the cutting, no downward pressure is need from the
fingers..

>It also relies on a big stock of crystals spread around so you can
>find one sufficiently close enough, something that did seem possible
>in the years after WWII, but after all this time attrition may have
>reduced the stock considerably.
>
There are still a lot of them out there and they can be most

inexpensive if the actual frequency isn't too important.

73 de n4jvp

From 4074436965054114901
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!goblin2!goblin.stu.neva.ru!
newsfeed.velia.net!newsfeed01.sul.t-online.de!newsfeed00.sul.t-online.de!t-
online.de!peer-uk.news.demon.net!kibo.news.demon.net!news.demon.co.uk!demon!
g3ohx.demon.co.uk!ianREMOVETHISjackson
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
Date: Thu, 4 Sep 2008 10:25:06 +0100
Lines: 61
Message-ID: <KtPQA9Gyl6vIFwhz@g3ohx.demon.co.uk>
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
 <bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
 <Pine.LNX.4.64.0809031447550.5386@darkstar.example.org>
 <khptb4hqblcihdmq4igk9s64kcoc0cr5qo@4ax.com>
NNTP-Posting-Host: g3ohx.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1220520313 16588 80.176.138.122 (4 Sep 2008 09:25:13
GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Thu, 4 Sep 2008 09:25:13 +0000 (UTC)
User-Agent: Turnpike/6.06-S (<XFUqWa$bKPT3YPCj2BGoeAFgAi>)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3009

In message <khptb4hqblcihdmq4igk9s64kcoc0cr5qo@4ax.com>, Registered User
<n4jvp@ix.netcom.com> writes
>On Wed, 3 Sep 2008 14:54:17 -0400, Michael Black <et472@ncf.ca> wrote:
>
>>On Wed, 3 Sep 2008, raypsi wrote:
>>
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>>reduced the stock considerably.
>>
>There are still a lot of them out there and they can be most
>inexpensive if the actual frequency isn't too important.
>
>73 de n4jvp

All this discussion about crystal grinding is very interesting. From my
far distant experiences, it is indeed a work of art and, more often, an
act of God. If the OP goes down that route, he may never actually get
his receiver built!

Looking at the websites of various manufacturers/suppliers (Google on
"crystal+frequency" and similar), it looks like you should be able to
get custom-made crystals in the required frequency range for less than
$20 each. I'm sure that at least the 5MHz will be available
off-the-shelf for less than $5 so we're talking maybe $100 for the six
crystals.

The alternative is, as has been suggested, a frequency synthesizer.
There are countless circuits available, but care should be taken to use
one where the spectral purity of the output signal is adequate for use
in a communications receiver. In particular, the phase noise has to be
low. One approach would to be look for a kit with a good spec (and
obviously something as simple as possible). A Google on
"frequency+synthesizer+kit" and similar brings up lots of information.
--
Ian

From 3511895202598714282
X-Google-Thread: fc2a5,89556bb23a6a6e56,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe07.iad.POSTED!7564ea0f!not-for-mail
From: blah <josh@haque.net>
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
MIME-Version: 1.0

Newsgroups: rec.radio.amateur.homebrew
Subject: kpg-91d
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 3
Message-ID: <QaRvk.26513$_s1.9319@newsfe07.iad>
NNTP-Posting-Host: feckodndmlhchfganeaegdniickmfehe
X-Complaints-To: abuse@charter.net
X-Trace:
meohkjfdkiefkjamfkhgnhldfhiklkalhpkgcgfenofhgojcfeckodndmlhchfganfeicopohlmejmambo
eghcjikepbccmkpoeikhddnhidklhgdddmjkjfmhgajbghomehlggnafaaoamp
NNTP-Posting-Date: Thu, 04 Sep 2008 13:14:24 UTC
Date: Thu, 04 Sep 2008 08:14:29 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:3010

Looking for a serial number for the kenwood kpg-91d rss.

Josh

From -5441138681413738543
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news.acm.uiuc.edu!
news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
Date: Thu, 4 Sep 2008 11:50:26 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 83
Sender: et472@72.0.192.109
Message-ID: <Pine.LNX.4.64.0809041144200.6417@darkstar.example.org>
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
<bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
<Pine.LNX.4.64.0809031447550.5386@darkstar.example.org>
<khptb4hqblcihdmq4igk9s64kcoc0cr5qo@4ax.com> <KtPQA9Gyl6vIFwhz@g3ohx.demon.co.uk>
NNTP-Posting-Host: 72.0.192.109
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1220543423 2608 72.0.192.109 (4 Sep 2008 15:50:23 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 4 Sep 2008 15:50:23 GMT
In-Reply-To: <KtPQA9Gyl6vIFwhz@g3ohx.demon.co.uk>
Xref: g2news2.google.com rec.radio.amateur.homebrew:3011

On Thu, 4 Sep 2008, Ian Jackson wrote:

> In message <khptb4hqblcihdmq4igk9s64kcoc0cr5qo@4ax.com>, Registered User
> <n4jvp@ix.netcom.com> writes
>> On Wed, 3 Sep 2008 14:54:17 -0400, Michael Black <et472@ncf.ca> wrote:
>>

>>> On Wed, 3 Sep 2008, raypsi wrote:
>>>
>>>> Hey Gary,
>>>>
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>>>> Maybe in 9 land they pave the streets with gold.
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>>>>
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>>
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>>
>> 73 de n4jvp
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> I'm sure that at least the 5MHz will be available off-the-shelf for less than
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> receiver. In particular, the phase noise has to be low. One approach would to
> be look for a kit with a good spec (and obviously something as simple as
> possible). A Google on "frequency+synthesizer+kit" and similar brings up lots

> of information.

A hundred dollars can be quite a bit, likely the rest of the parts aren't that much (unless someone is buying all new parts).

The thing about a synthesizer is that the original poster only needs well spaced frequencies, so the reference frequency can be 500KHz, which allows for much easier filtering than narrower channels (or, the early synthesizers in the seventies that replaced 8MHz crystals in 2M FM rigs, not only did they have to deal with close together channel spacing of 10 or 15KHz, but since the synthesizer output would be multiplied up by the transmitter, the reference frequency was the channel spacing divided by how much the transmitter multiplied, which gave a terribly low reference frequency.

Plus, these are for changing bands, not tuning a given band. A second or so of lockup time isn't a problem since changing bands won't happen often. So the filtering can be better without impacting on tuning. A main tuning synthesizer with 1KHz steps starts out more complicated because it's 1KHz steps, but then it has to change frequency rapidly, which makes it even more trouble to design well.

Michael VE2BVW

From 4521886686653142801
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe03.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
<bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
<Pine.LNX.4.64.0809031447550.5386@darkstar.example.org>
Subject: Re: Heterodyne conversion crystals
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <4QXvk.28730$Fr1.7747@newsfe03.iad>
NNTP-Posting-Host: 72.192.52.79
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe03.iad 1220561280 72.192.52.79 (Thu, 04 Sep 2008 20:48:00 UTC)
NNTP-Posting-Date: Thu, 04 Sep 2008 20:48:00 UTC
Organization: Cox
Date: Thu, 4 Sep 2008 16:47:58 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:561

What ever happened to that neat list of surplus crystals that JAN
in Fort Myers used to offer? Those were the good old days.

A few of those crystals are available on the Surplus Sales of
Nebraska website. I find two rocks I needed (1.515 kHz for
2nd conversion from 1.6 MHz to 85 kHz) there after searching
for several weeks.

Pete

From 162598110231319839
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe09.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
<bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
<Pine.LNX.4.64.0809031447550.5386@darkstar.example.org>
<4QXvk.28730$Fr1.7747@newsfe03.iad>
Subject: Re: Heterodyne conversion crystals
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <95Yvk.33399$9u1.16625@newsfe09.iad>
NNTP-Posting-Host: 72.192.52.79
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe09.iad 1220562373 72.192.52.79 (Thu, 04 Sep 2008 21:06:13 UTC)
NNTP-Posting-Date: Thu, 04 Sep 2008 21:06:13 UTC
Organization: Cox
Date: Thu, 4 Sep 2008 17:06:11 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:3013

"Tio Pedro" <radioconnection@cox.net> wrote in message .

>I find two rocks I needed >

I found two rocks...(Edit..) :)

```
From -2674303052746405246
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!26g2000hsk.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Heterodyne conversion crystals
Date: Thu, 4 Sep 2008 18:11:33 -0700 (PDT)
Organization: http://groups.google.com
Lines: 55
Message-ID: <7509c4db-2511-45f2-a4ee-f3a9e1801742@26g2000hsk.googlegroups.com>
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
     <bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
     <Pine.LNX.4.64.0809031447550.5386@darkstar.example.org>
NNTP-Posting-Host: 76.226.207.25
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1220577093 23811 127.0.0.1 (5 Sep 2008 01:11:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 5 Sep 2008 01:11:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 26g2000hsk.googlegroups.com; posting-host=76.226.207.25;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:3014

On Sep 3, 2:54=A0pm, Michael Black <et...@ncf.ca> wrote:
> On Wed, 3 Sep 2008, raypsi wrote:
> > Hey Gary,
>
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>
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> and figuring out how to remove the blank and then get it back in place
> when it's soldered in place (or something like that I can't remember how
> the blank is connected).
>
> One of the odd things is that if one has to buy new crystals, a
> synthesizer will likely be far cheaper. =A0In the early seventies,
> synthesizers made a big splash because everyone wanted lots of channels
> on 2m FM, and the need to have them ground to frequency (and to equipment=
)
> made it all very costly, so synthesizers despite their cost and bulk
> became the norm.
>
> Almost forty years later, a synthesizer for a handful of crystals would
> still be comparatively bulky, but would be even cheaper than in the early
> seventies.
>
> =A0 =A0 Michael =A0VE2BVW

Believe it or not I was making a living sell rocks HI HI back forty
years ago.
It was like there was a freaking crystal company on every corner.
There was so
much competition back then the prices was chump change. The crystal
companies
could have put the big hurt on PLL or programmable dividers. I know
the real
reason crystals took a back seat, and it;s not what anybody thinks
happened.

73 OM

n8zu



From 2942344122634530577
X-Google-Thread: fc2a5,c81e066aa8e0848f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.clear.net.nz!news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 05 Sep 2008 06:34:28 -0500
Date: Fri, 05 Sep 2008 23:34:34 +1200
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sending power into rig unused for 30 years : Precautions ?
References: <nrkca49jtg6kp1rtqqahijcatd2mi23vvh@4ax.com> <g67in5-
gsc.ln1@radagast.org> <958d098b-e530-4a91-bc9d-
```

a89209825073@u6g2000prc.googlegroups.com>
In-Reply-To: <958d098b-e530-4a91-bc9d-a89209825073@u6g2000prc.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 080904-1, 04/09/2008), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-19-181.dsl.telstraclear.net
Message-ID: <48c11941$1@clear.net.nz>
X-Original-Trace: 5 Sep 2008 23:34:25 +1200, 121-72-19-181.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints abuse@clear.net.nz
Lines: 39
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-AuthenticatedUsername: news10531
X-Trace: sv3-T7n2bsih0bYYddYQkoPm2SDKetP3ZRXzNv+jYHQwav9UjbDZV2imQKDOmtCfZf5xrfsroyYj4M/DVZu!PPgnlAj/f9WHsGkjlsw6s52I592fb+4nAcxHwLu3ulbYF2hTHhaMnBrQMQ==
X-Complaints-To: abuse@clear.net.nz
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:564

Andrew VK3BFA wrote:

> On Aug 16, 4:03 pm, dpl...@radagast.org (Dave Platt) wrote:
>
>>>Now retired I'm trying to become active again.
>>>My TS-520S has not been on for 30 years.
>>>I don't have a variactor (variable transformer).
>>
>
> KISS. Wire a 60w light globe in series, turn it on, let it sit for a
> few hours. Filaments OFF for this test.
>
> Havent used a variac for this for years - reason - its the switch on
> current surge thats going to kill old electros, and the variac has no
> current limiting whereas the light bulb does. You will see a brief
> "Flash" as the caps charge up, then maybe a dull glow, eventually, no
> light at all.
>
> Given that the caps used were / are modern, and of good quality to
> start with, the KISS method works well.
>
> Oh, BTW - when all this is done, apply full mains power, let the tube
> filaments soak for a few hours lest they have gone gassy.
>
> Andrew VK3BFA.

Well I still use a kenwood 820s and it goes fine. In fact I'm just
putting the WARC bands into it.

The only parts I would be really concerned about are the 450 vot electros in series acroos the 800 volt final ht supply. If you were very careful a good look at the caps smoothing the 300 volt screen and driver plate supply might also be a good idea. If you do a search on google you will find all the tech data you might need including circuits and manuals. It's a pretty good rig except for some poor final tank design on some bands. a rewind of the Pi network inductor can help a lot and the use of the proper values for a working Q of 12.

This can give you up to 25 or 30 watts more output on some bands with no more DC input. It also saves you finals a lot of potential grief. See the QST 1983 upgrade article for a few ideas.

Cliff Wright ZL1BDA ex G3NIA

```
From 4698657663114952989
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc04.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
<bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
<Pine.LNX.4.64.0809031447550.5386@darkstar.example.org> <7509c4db-2511-45f2-a4ee-
f3a9e1801742@26g2000hsk.googlegroups.com>
Subject: Re: Heterodyne conversion crystals
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <g_bwk.563$1a2.176@trnddc04>
Date: Fri, 05 Sep 2008 15:11:08 GMT
NNTP-Posting-Host: 71.104.202.192
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc04 1220627468 71.104.202.192 (Fri, 05 Sep 2008 11:11:08 EDT)
NNTP-Posting-Date: Fri, 05 Sep 2008 11:11:08 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:565
X-Original-Bytes: 1569
```

Believe it or not I was making a living sell rocks HI HI back forty years ago.

It was like there was a freaking crystal company on every corner. There was so much competition back then the prices was chump change. The crystal companies could have put the big hurt on PLL or programmable dividers. I know the real reason crystals took a back seat, and it;s not what anybody thinks happened.

73 OM

n8zu

It would be my guess to do away with technicians that tune up radios and fix things.

```
From 2185773435255602235
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!post02.iad.highwinds-media.com!newsfe04.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
<bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
<Pine.LNX.4.64.0809031447550.5386@darkstar.example.org> <7509c4db-2511-45f2-a4ee-
f3a9e1801742@26g2000hsk.googlegroups.com> <g_bwk.563$1a2.176@trnddc04>
Subject: Re: Heterodyne conversion crystals
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <E2vwk.21259$3A4.20973@newsfe04.iad>
NNTP-Posting-Host: 72.192.52.79
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe04.iad 1220705572 72.192.52.79 (Sat, 06 Sep 2008 12:52:52 UTC)
NNTP-Posting-Date: Sat, 06 Sep 2008 12:52:52 UTC
Organization: Cox
Date: Sat, 6 Sep 2008 08:52:44 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:566
```

"JB" <nospam@goofball.net> wrote in message
news:g_bwk.563$1a2.176@trnddc04...

> The crystal
> companies
> could have put the big hurt on PLL or programmable dividers. I know
> the real
> reason crystals took a back seat, and it;s not what anybody thinks
> happened.
>
> 73 OM
>
> n8zu

>
> It would be my guess to do away with technicians that tune up radios and
> fix
> things.
>
>

I've been racking my brain trying to figure out a reason.
But, I think you hit the nail on the head. It fits right in
with the obsolescence of the FCC 1st and 2nd Class
Radiotelephone tickets.

Pete

From -5756286152530596485
X-Google-Thread: fc2a5,8dde30c2ad8403a9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 06 Sep 2008 08:42:45 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <BKadnaAIB4u3AyDVnZ2dnUVZ_gmdnZ2d@giganews.com>
<bca84992-9c64-4496-97e4-164a610f1609@a70g2000hsh.googlegroups.com>
<Pine.LNX.4.64.0809031447550.5386@darkstar.example.org> <7509c4db-2511-45f2-a4ee-
f3a9e1801742@26g2000hsk.googlegroups.com> <g_bwk.563$1a2.176@trnddc04>
<E2vwk.21259$3A4.20973@newsfe04.iad>
Subject: Re: Heterodyne conversion crystals
Date: Sat, 6 Sep 2008 09:43:47 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <isednRHGZahIFV_VnZ2dnUVZ_qzinZ2d@earthlink.com>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.225.35.56
X-Trace: sv3-
hvSWczYPd24JMrQa0mVIZCmm3JkYpzZEoQmDHnIHazijFKtZtBlbOBGXjF1esqsUZ6D8M7JY+zX7FsP!
USiEgkXI2BJwzqC1urE1Z2OroB8ApIN4K0/8LnOX/f7C42cpQ8Wg1T/jJ9WxV8INhVoNnMC0ntPY!
L2seKsZHoYmlUY+ZtcJpxbXw4ObcwcMHuyEiCQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:567

"Tio Pedro" <radioconnection@cox.net> wrote in message
news:E2vwk.21259$3A4.20973@newsfe04.iad...
>>
> I've been racking my brain trying to figure out a reason.
> But, I think you hit the nail on the head. It fits right in
> with the obsolescence of the FCC 1st and 2nd Class
> Radiotelephone tickets.
>
> Pete

They may as well have done away with the FCC tickets. I passed the 1st class test at 22 years of age in 1972 on the first try for the ticket. I had never seen a TV transmitter, but had the ticket to work on them. Maybe years ago it was differant and a harder test.
Thought I wanted to get into the 2 way repair business, but never did. When I took the test it was only one dollar more for the first class, so took it and passed.
Most of the tests are made so any idiot can pass them.

```
From 7944481152634553595
X-Google-Thread: 108122,a3ac201b7e168d99,start
X-Google-Thread: fc2a5,a3ac201b7e168d99,start
X-Google-Thread: 1062f2,a3ac201b7e168d99,start
X-Google-Thread: 115730,a3ac201b7e168d99,start
X-Google-Thread: fcc6e,a3ac201b7e168d99,start
X-Google-Attributes:
gid108122,gidfc2a5,gid1062f2,gid115730,gidfcc6e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!newshub.sdsu.edu!
flpi089.ffdc.sbc.com!prodigy.net!flpi088.ffdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!nlpi064.nbdc.sbc.com.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,misc.industry.electronics.m
arketplace,sci.electronics.equipment,rec.radio.amateur.antenna
Subject: eBay: HP 8411A
Lines: 2
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5512
Message-ID: <sPJlk.15688$cW3.5226@nlpi064.nbdc.sbc.com>
NNTP-Posting-Host: 70.142.42.87
```

```
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi064.nbdc.sbc.com 1217882456 ST000 70.142.42.87 (Mon, 04 Aug 2008
16:40:56 EDT)
NNTP-Posting-Date: Mon, 04 Aug 2008 16:40:56 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
OP[MBXSEFRUARSH]]RKB_UDAZZ\DPCPDLXUNNHLIWIWTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Mon, 4 Aug 2008 15:40:29 -0500
Xref: g2news1.google.com rec.radio.amateur.equipment:427
rec.radio.amateur.homebrew:416 misc.industry.electronics.marketplace:65
sci.electronics.equipment:334 rec.radio.amateur.antenna:1943

http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&ssPageName=STRK:MESELX:IT&item=110276680571




From -5965917612452943574
X-Google-Thread: 108122,a3ac201b7e168d99
X-Google-Thread: fc2a5,a3ac201b7e168d99
X-Google-Thread: 1062f2,a3ac201b7e168d99
X-Google-Thread: 115730,a3ac201b7e168d99
X-Google-Thread: fcc6e,a3ac201b7e168d99
X-Google-Attributes:
gid108122,gidfc2a5,gid1062f2,gid115730,gidfcc6e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
z72g2000hsb.googlegroups.com!not-for-mail
From: JeffM <jeffm_@email.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,misc.industry.electronics.m
arketplace,sci.electronics.equipment,rec.radio.amateur.antenna
Subject: SPAM -- Do NOT cross-post to non-forsale groups
Date: Mon, 4 Aug 2008 16:30:10 -0700 (PDT)
Organization: http://groups.google.com
Lines: 2
Message-ID: <8b743fe5-e98e-43c8-bcf5-ebefc4237f25@z72g2000hsb.googlegroups.com>
References: <sPJlk.15688$cW3.5226@nlpi064.nbdc.sbc.com>
NNTP-Posting-Host: 198.147.225.141
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1217892610 21935 127.0.0.1 (4 Aug 2008 23:30:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 4 Aug 2008 23:30:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z72g2000hsb.googlegroups.com; posting-host=198.147.225.141;
     posting-account=zOSGNAkAAACodzv53qV0nau9KezQHGvD
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2)
     Gecko/20040803,gzip(gfe),gzip(gfe)
```

```
Xref: g2news1.google.com rec.radio.amateur.equipment:429
rec.radio.amateur.homebrew:417 misc.industry.electronics.marketplace:66
sci.electronics.equipment:335 rec.radio.amateur.antenna:1947

Henry Kolesnik wrote:
>cgi.ebay[SPAM]


From 5242690447708794986
X-Google-Thread: fc2a5,47a6ac25abee98b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!56g2000hsm.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 7360 or 6JH8 for first mixer?
Date: Tue, 5 Aug 2008 13:02:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 11
Message-ID: <68e2ffeb-323d-40da-9e78-4c6f63ac3e91@56g2000hsm.googlegroups.com>
References: <4jrlk.3667$3l5.2335@newsfe06.iad>
NNTP-Posting-Host: 76.226.140.61
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1217966549 8216 127.0.0.1 (5 Aug 2008 20:02:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 5 Aug 2008 20:02:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 56g2000hsm.googlegroups.com; posting-host=76.226.140.61;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:418

On Aug 3, 7:37=A0pm, "Tio Pedro" <radioconnect...@cox.net> wrote:
> Has anyone tried a 6JH8 in place of a 7360 for the
> first mixer in a homebrew RX? =A0How did they compare?
>
> Pete

Well Eico uses a 7360 as a balanced modulator in my Eico 753. When it
comes time to replace it I'm going with the TV set version, 6LE8 used
as a chroma demodulator. I see the 6JH8 has an extra grid. I know you
can use it but you are going to have to play with that extra grid it
may not just go to ground, like most suppressor grids.


From -9216477150252458231
X-Google-Thread: fc2a5,47a6ac25abee98b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer01.iad.highwinds-media.com!
npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!post01.iad.highwinds-media.com!newsfe04.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4jrlk.3667$3l5.2335@newsfe06.iad>
<68e2ffeb-323d-40da-9e78-4c6f63ac3e91@56g2000hsm.googlegroups.com>
Subject: Re: 7360 or 6JH8 for first mixer?
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <F53mk.8593$Bt6.7231@newsfe04.iad>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe04.iad 1217969637 72.209.25.33 (Tue, 05 Aug 2008 20:53:57 UTC)
NNTP-Posting-Date: Tue, 05 Aug 2008 20:53:57 UTC
Organization: Cox
Date: Tue, 5 Aug 2008 16:53:15 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2870

"raypsi" <RBorowiak@gmail.com> wrote in message news:68e2ffeb- Well Eico
uses a 7360 as a balanced modulator in my Eico 753. When it
comes time to replace it I'm going with the TV set version, 6LE8 used
as a chroma demodulator. I see the 6JH8 has an extra grid. I know you
can use it but you are going to have to play with that extra grid it
may not just go to ground, like most suppressor grids.

Transmitters don't worry about noise figure or dynamic range...
I'm more worried about how the different gated beam tubes will
work in receiver applications.
Regarding your proposed mod, check this
website:http://members.shaw.ca/pacifictv/cartridg.htm
The 6JH8 can be used in lieu of the 7360 by following the
pin layouts shown on that page, as was done by Swan.

Pete

From 2195439806584860543
X-Google-Thread: fc2a5,47a6ac25abee98b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!news.kjsl.com!
ncf.ca!not-for-mail

From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 7360 or 6JH8 for first mixer?
Date: Wed, 6 Aug 2008 12:33:58 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 16
Sender: et472@199-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.0808061231350.11957@darkstar.example.org>
References: <4jrlk.3667$3l5.2335@newsfe06.iad>
 <68e2ffeb-323d-40da-9e78-4c6f63ac3e91@56g2000hsm.googlegroups.com>
 <F53mk.8593$Bt6.7231@newsfe04.iad>
NNTP-Posting-Host: 199-215-235-64-ppp.3menatwork.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1218040435 18755 64.235.215.199 (6 Aug 2008 16:33:55 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 6 Aug 2008 16:33:55 GMT
In-Reply-To: <F53mk.8593$Bt6.7231@newsfe04.iad>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2871

On Tue, 5 Aug 2008, Tio Pedro wrote:

> Transmitters don't worry about noise figure or dynamic range...
> I'm more worried about how the different gated beam tubes will
> work in receiver applications.

I caught that point in your original post.

There were plenty of articles about using the other but cheaper tubes similar to the 7360. But I'm not certain any I saw used them as a first mixer. One could go back and check. And if that's the case, either everyone just copied Squires 1963 article, or there actually was a good reason to not use the cheaper variants for the first mixer.

MIchael VE2BVW

From -8280321347065822731
X-Google-Thread: fc2a5,47a6ac25abee98b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe06.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4jrlk.3667$3l5.2335@newsfe06.iad>
<68e2ffeb-323d-40da-9e78-4c6f63ac3e91@56g2000hsm.googlegroups.com>
<F53mk.8593$Bt6.7231@newsfe04.iad>
<Pine.LNX.4.64.0808061231350.11957@darkstar.example.org>
Subject: Re: 7360 or 6JH8 for first mixer?
Lines: 33

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X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <uwomk.6872$3l5.2987@newsfe06.iad>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe06.iad 1218057370 72.209.25.33 (Wed, 06 Aug 2008 21:16:10 UTC)
NNTP-Posting-Date: Wed, 06 Aug 2008 21:16:10 UTC
Organization: Cox
Date: Wed, 6 Aug 2008 17:16:09 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:421


"Michael Black" <et472@ncf.ca> wrote in message
news:Pine.LNX.4.64.0808061231350.11957@darkstar.example.org...
> On Tue, 5 Aug 2008, Tio Pedro wrote:
>
 > There were plenty of articles about using the other but cheaper
> tubes similar to the 7360.  But I'm not certain any I saw used
> them as a first mixer.  One could go back and check.  And if
> that's the case, either everyone just copied Squires 1963 article,
> or there actually was a good reason to not use the cheaper variants
> for the first mixer.
>
>    MIchael  VE2BVW
Hi Micheal

Most of the magic seems to be being able to generate push-pull LO
injection for the deflection plates, that along with the P-P output tank
balance, is critical for max. signal rejection at the mixer output. I do
have
a 1600kHz daytimer next town over (1st IF is1600 kc.)

I was thinking of using a trifiliar wound balun, driven by a cathode
follower
buffer of off the first LO, to provide the 3 volt RMS injection to the
deflection
plates. That should provide balanced drive voltages to each deflection
electrode?  Squires never provided a lot of
detail on his coils or how they were made.  A balun might provide a modern
solution for balanced P-P injection from otherwise single ended LO sources.

Pete




From 4815212420202632333
X-Google-Thread: fc2a5,47a6ac25abee98b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news1.google.com!news1.google.com!postnews.google.com!
j22g2000hsf.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 7360 or 6JH8 for first mixer?
Date: Wed, 6 Aug 2008 15:19:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <eacc687f-9d1c-45fc-84cf-6484f7e5abd9@j22g2000hsf.googlegroups.com>
References: <4jrlk.3667$3l5.2335@newsfe06.iad>
<68e2ffeb-323d-40da-9e78-4c6f63ac3e91@56g2000hsm.googlegroups.com>
NNTP-Posting-Host: 76.226.140.61
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1218061170 22106 127.0.0.1 (6 Aug 2008 22:19:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 6 Aug 2008 22:19:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j22g2000hsf.googlegroups.com; posting-host=76.226.140.61;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.16)
     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:422

On Aug 5, 4:02 pm, raypsi <RBorow...@gmail.com> wrote:
> On Aug 3, 7:37 pm, "Tio Pedro" <radioconnect...@cox.net> wrote:
>
> > Has anyone tried a 6JH8 in place of a 7360 for the
> > first mixer in a homebrew RX?  How did they compare?
>
> > Pete
>
> Well Eico uses a 7360 as a balanced modulator in my Eico 753. When it
> comes time to replace it I'm going with the TV set version, 6LE8 used
> as a chroma demodulator. I see the 6JH8 has an extra grid. I know you
> can use it but you are going to have to play with that extra grid it
> may not just go to ground, like most suppressor grids.




From -5608747491152304727
X-Google-Thread: fcc6e,812f31bee9e0c537,start
X-Google-Thread: 11480d,812f31bee9e0c537,start
X-Google-Thread: 108122,812f31bee9e0c537,start
X-Google-Thread: fc2a5,812f31bee9e0c537,start
X-Google-Thread: 10b9c8,812f31bee9e0c537,start
X-Google-Attributes:
gidfcc6e,gid11480d,gid108122,gidfc2a5,gid10b9c8,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
```

media.com!news.glorb.com!news-out.readnews.com!transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1215410701@panix.com>
Followup-To: poster
Date: 7 Aug 2008 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 09 Sep 2008 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1218089100@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1218089102 26524 166.84.1.2 (7 Aug 2008 06:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 7 Aug 2008 06:05:02 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:2018 rec.radio.amateur.dx:95
rec.radio.amateur.equipment:445 rec.radio.amateur.homebrew:423 rec.radio.info:166

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

```
From -5204148204972615556
X-Google-Thread: fc2a5,c7bdeec6a5417005,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
feeder.erje.net!news.k-dsl.de!news.albasani.net!not-for-mail
From: Stev eH
<steveaaaqqqqqqqqqqwwwwwwwwwweeeeeeeeeeerrrrrrrrrrrrrrtttttttttttttttyyyyyyyyyyyyy
yyyyaaaaaaaaaaaassssssssssssssssddddddddddddddddddffffffffffffffggggggggghhhhhhhhh
hhhhhhhhhh@tfif.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: GU-81M linear
Date: Thu, 07 Aug 2008 10:50:25 +0100
Organization: 6435
Lines: 9
Message-ID: <g7eggv$q7v$1@news.albasani.net>
Reply-To:
steveaaaqqqqqqqqqqwwwwwwwwwweeeeeeeeeeerrrrrrrrrrrrrrtttttttttttttttyyyyyyyyyyyyyy
yyyaaaaaaaaaaaassssssssssssssssddddddddddddddddddffffffffffffffggggggggghhhhhhhhhh
hhhhhhhhh@tfif.co.uk
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net mZzkAcyyI+k0q3fhlieuIW8KyFW+Fwzyi6vlWVHpeRlHbNard8/
r7mUDo/YR2WbML8a/eQrYl9N+7wicp1B3PgajeKsj1DNHG9npPcKqT0wJi9CvF6WhvOa3Hiljmp1S
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Thu, 7 Aug 2008 09:50:24 +0000 (UTC)
X-User-ID: ts0beJVtRgb5oxLhpIf19hTneBbZC7ohpFCrPJN/Emg=
Cancel-Lock: sha1:ln6Be40DZp4LjBuNEc6/Z0SRf/c=
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
X-NNTP-Posting-Host: WB1NaKI1/ofH/9PnpgkOTTIlGRvoVqaMyUKszuvVWMA=
Xref: g2news1.google.com rec.radio.amateur.homebrew:424
```

Has anyone used a GU-81M in a homebrew linear? I like the idea of building a quiet linear and this tube looks like it should do the job.

I've found very little info via google apart from a few wildly different specifications.

http://cgi.ebay.co.uk/GU-81M-GU81M-GU-81-M-GU81-Russian-Power-TUBE-NOS-in-BOX_W0QQitemZ310070893790QQcmdZViewItem?hash=item310070893790&_trksid=p3286.m63.l1177

Steve H

From 2753219623708615503
X-Google-Thread: fc2a5,47a6ac25abee98b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news4.google.com!postnews.google.com!f63g2000hsf.googlegroups.com!not-for-mail
From: "JRCCrabtree@gmail.com" <JRCCrabtree@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 7360 or 6JH8 for first mixer?
Date: Thu, 7 Aug 2008 06:50:59 -0700 (PDT)
Organization: http://groups.google.com
Lines: 24
Message-ID: <1a67ef9b-11d3-4dcf-8530-3ff96535aa4d@f63g2000hsf.googlegroups.com>
References: <4jrlk.3667$3l5.2335@newsfe06.iad>
NNTP-Posting-Host: 64.12.116.144
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1218117060 14362 127.0.0.1 (7 Aug 2008 13:51:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 7 Aug 2008 13:51:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f63g2000hsf.googlegroups.com; posting-host=64.12.116.144;
posting-account=oReaeAoAAAC8QjvgaTJKVc8n6hZSq0yP
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-mtc-tf06.proxy.aol.com[400C70A6] (Prism/1.2.1),
HTTP/1.1 cache-mtc-ac15.proxy.aol.com[400C7490] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:425

On Aug 3, 6:37=EF=BF=BDpm, "Tio Pedro" <radioconnect...@cox.net> wrote:

> Has anyone tried a 6JH8 in place of a 7360 for the
> first mixer in a homebrew RX? =EF=BF=BDHow did they compare?
>
> Pete

Back in the 1960's, Pat Hawker, G3VA reported (Amateur Radio Techniques, Pat Hawker G3VA, 3rd ed, RSGB, p83) that Brian Booth, G3SYC (SK ca. 2003), had used the 6JH8 beam deflection valve instead of the 7360. Brian compared the two devices:
i) 6JH8 has a good deal more linear transfer characterisitic
ii) 6JH8 operates with the deflector plates at 0 volts, ie unnecessary to bias to plus 25 Volts as per the 7360
iii) roughly similar transconductance 4400micromhos vs 5400micromhos for the 7360

iv) 6JH8 has double the anode dissipation (3 watts)
v) then as now the 6JH8 is significantly cheaper.

The final comment was that Brian had used the 6JH8 as a receiver mixer and also successfully as a mixer in transmitter circuits.

HTH and 73

John KC0G

```
From -6056755799511672964
X-Google-Thread: fc2a5,47a6ac25abee98b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe03.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4jrlk.3667$3l5.2335@newsfe06.iad>
<1a67ef9b-11d3-4dcf-8530-3ff96535aa4d@f63g2000hsf.googlegroups.com>
Subject: Re: 7360 or 6JH8 for first mixer?
Lines: 34
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <bpImk.13277$KZ.8227@newsfe03.iad>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe03.iad 1218138823 72.209.25.33 (Thu, 07 Aug 2008 19:53:43 UTC)
NNTP-Posting-Date: Thu, 07 Aug 2008 19:53:43 UTC
Organization: Cox
Date: Thu, 7 Aug 2008 15:53:38 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:426
```

<JRCCrabtree@gmail.com> wrote in message
news:1a67ef9b-11d3-4dcf-8530-3ff96535aa4d@f63g2000hsf.googlegroups.com...
On Aug 3, 6:37?pm, "Tio Pedro" <radioconnect...@cox.net> wrote:
> Has anyone tried a 6JH8 in place of a 7360 for the
> first mixer in a homebrew RX? ?How did they compare?
>
> Pete

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ii) 6JH8 operates with the deflector plates at 0 volts, ie unnecessary

to bias to plus 25 Volts as per the 7360
iii) roughly similar transconductance 4400micromhos vs 5400micromhos
for the 7360
iv) 6JH8 has double the anode dissipation (3 watts)
v) then as now the 6JH8 is significantly cheaper.

The final comment was that Brian had used the 6JH8 as a receiver
mixer and also successfully as a mixer in transmitter circuits.

HTH and 73

John KC0G

Great info, thanks! But I wonder how he achieved DC balance with
the deflectors set for 0 volts?

Pete

```
From -5756766113655940491
X-Google-Thread: fc2a5,d8c749ba99d431fd,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m44g2000hsc.googlegroups.com!not-for-mail
From: "Ross, NS7F" <rjtucke@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: need help finding correct switch for wearable radio project
Date: Thu, 7 Aug 2008 17:28:23 -0700 (PDT)
Organization: http://groups.google.com
Lines: 47
Message-ID: <80f202e1-0f04-4bde-a482-4d6a953d201f@m44g2000hsc.googlegroups.com>
NNTP-Posting-Host: 98.165.161.132
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1218155304 1452 127.0.0.1 (8 Aug 2008 00:28:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 8 Aug 2008 00:28:24 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m44g2000hsc.googlegroups.com; posting-host=98.165.161.132;
     posting-account=dcJvXgoAAABRlhSfOMmtMBXWf-dUgzU6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; Intel Mac OS X; en-US;
     rv:1.8.1.16) Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:427
```

I am looking into making a kit based on the Small Wonder Labs Rockmite
(http://smallwonderlabs.com/Rockmite.htm) designed to be a wearable
short-range CW rig. My thought is to be able to wear it on an armband
like joggers do with iPods. Anyway, I need to find some pretty

specific parts, but I am having trouble finding them on Mouser, etc. I was wondering if perhaps a more experienced parts-hunter might kindly assist me in locating these.

My plan is to have everything except the earbud fit into/onto the chassis- 9V battery, telescoping/rubber duck antenna, and two pushbuttons for the key. Here is my list of parts that I need help with:

* 'key'- Rather than have paddles that stick out, I think it would be cool to use two pushbuttons on the top of the case, oriented so that you can press them while it's strapped to your other arm. My problem is that I need really shallow switch housings- my hope is to put this inside a pair of altoids tins attached back to back, and I'd really really like it if the key was more or less flush with the top of the chassis. I tried to surf Mouser, but there are kajillions out there and I can't seem to find something like this.

* control switch- see comments about about key, but I wouldn't mind if this stuck out a tiny bit.

* antenna- OK, so the final transistor is a 2222 at less than 1/2W. Does impedance mismatch even matter here? The obvious problem here is that I'm using HF... maybe I should use a ferrite loop? Can I even transmit on that? I'm really not looking for long distance here- maybe a mile or two. Any suggestions?

* volume/power - I was thinking of using Mouser 311-170-1-1M for the audio pot / power switch, but might there be a part that would be easier to mount? I'm guessing not, since I really want it to be a thumbwheel, but I thought I'd ask.

* frequency- Finally, since I'm not designing this system to be used long-range, maybe I should pick a really obscure frequency? What do you think? On one hand, if I used something in 80M, I would be unlikely ever to interfere with anybody, but that makes the antenna even more useless! Or should I pick 20M, maybe in the phone band? Please don't doubt that I will be very careful to ID legally and make sure to listen first, etc. But I just wanted to check...

Thank you for your time,
Ross Tucker, NS7F

From -1661960304606591605
X-Google-Thread: fc2a5,d8c749ba99d431fd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!cycny01.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc02.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>

From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <80f202e1-0f04-4bde-a482-4d6a953d201f@m44g2000hsc.googlegroups.com>
Subject: Re: need help finding correct switch for wearable radio project
Lines: 85
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <GCZmk.575$xv.449@trnddc02>
Date: Fri, 08 Aug 2008 15:28:38 GMT
NNTP-Posting-Host: 71.110.227.144
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc02 1218209318 71.110.227.144 (Fri, 08 Aug 2008 11:28:38 EDT)
NNTP-Posting-Date: Fri, 08 Aug 2008 11:28:38 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:428

"Ross, NS7F" <rjtucke@gmail.com> wrote in message
news:80f202e1-0f04-4bde-a482-4d6a953d201f@m44g2000hsc.googlegroups.com...
> I am looking into making a kit based on the Small Wonder Labs Rockmite
> (http://smallwonderlabs.com/Rockmite.htm) designed to be a wearable
> short-range CW rig. My thought is to be able to wear it on an armband
> like joggers do with iPods. Anyway, I need to find some pretty
> specific parts, but I am having trouble finding them on Mouser, etc. I
> was wondering if perhaps a more experienced parts-hunter might kindly
> assist me in locating these.
>
> My plan is to have everything except the earbud fit into/onto the
> chassis- 9V battery, telescoping/rubber duck antenna, and two
> pushbuttons for the key. Here is my list of parts that I need help
> with:
>
> * 'key'- Rather than have paddles that stick out, I think it would be
> cool to use two pushbuttons on the top of the case, oriented so that
> you can press them while it's strapped to your other arm. My problem
> is that I need really shallow switch housings- my hope is to put this
> inside a pair of altoids tins attached back to back, and I'd really
> really like it if the key was more or less flush with the top of the
> chassis. I tried to surf Mouser, but there are kajillions out there
> and I can't seem to find something like this.
>
> * control switch- see comments about about key, but I wouldn't mind if
> this stuck out a tiny bit.
>
> * antenna- OK, so the final transistor is a 2222 at less than 1/2W.
> Does impedance mismatch even matter here? The obvious problem here is
> that I'm using HF... maybe I should use a ferrite loop? Can I even
> transmit on that? I'm really not looking for long distance here- maybe
> a mile or two. Any suggestions?
>
> * volume/power - I was thinking of using Mouser 311-170-1-1M for the
> audio pot / power switch, but might there be a part that would be
> easier to mount? I'm guessing not, since I really want it to be a

> thumbwheel, but I thought I'd ask.
>
> * frequency- Finally, since I'm not designing this system to be used
> long-range, maybe I should pick a really obscure frequency? What do
> you think? On one hand, if I used something in 80M, I would be
> unlikely ever to interfere with anybody, but that makes the antenna
> even more useless! Or should I pick 20M, maybe in the phone band?
> Please don't doubt that I will be very careful to ID legally and make
> sure to listen first, etc. But I just wanted to check...
>
>
> Thank you for your time,
> Ross Tucker, NS7F

I actually used a microswitch from the junkbox for a handkey for several months when I was just getting back on the air after a move.

What you describe sounds like an ergonomic nightmare though. Try 144.200 or 432.100 MHz the multimode calling frequencies. As long as you have a working RX you should be OK. You could drop it down to 100mw and probably still make contacts. There would be serious difficulty coupling 80m energy without an antenna unless you were considering a 135' trailing wire.

I always wanted to build a Get Smart shoe phone or better yet the Star Trek communicator. There was a 73 magazine with one. Lots of fabrication just like the original. It was THE prototype for the now common flip phones.

I never could find the little rotary dial for the shoe phone. I am extremely overjoyed to see the Get Smart reruns back on the local independent station.

My first "HT" was a 1 watt packset radio (Mot H23BAC) with about 5 submini tubes. The RX strip would run about a week on a 6v lantern battery, but there was only about 30 minutes talk time for about $20 worth of batteries for the transmitter. The answer was to build up a solid state FM TX to sub in for the tube strip to run on several surplus SubC Nicads. I lugged that around for several years. I finally got a HT220 Slimline that replaced it. Those were the days when repeaters were a new thing and everybody in town was on the one frequency.

I don't know if you noticed the OP-ED piece in QST from the newbie... Shouldn't we all be building a portable transporter units or time machines instead?   We are all obsolete he says. I wonder how long before he has a meltdown and QSY's to his Blackberry.

Jim, ac6tk
http://infotech.awardspace.com/

From 6210815771442034237
X-Google-Thread: fc2a5,a323beb3518b0a66,start

```
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k30g2000hse.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Identify transistors
Date: Sat, 9 Aug 2008 17:08:58 -0700 (PDT)
Organization: http://groups.google.com
Lines: 8
Message-ID: <6a508fc3-722b-4952-b70e-3bb3196a3233@k30g2000hse.googlegroups.com>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1218326938 12596 127.0.0.1 (10 Aug 2008 00:08:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 10 Aug 2008 00:08:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k30g2000hse.googlegroups.com; posting-host=204.108.8.5;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:429

I have a few transistors(I think) I am trying to identify.
They look like stud mounted SCRs with a 1/4-28 stud but the ohmmeter
says they are NPN transistors. They were in a bag marked "servo amp
transistors" no ledgable markings on the transistors. Any suggestions
as to which type they maybe.


Jimmie



From 1098199808508876810
X-Google-Thread: fc2a5,a323beb3518b0a66
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!
trnddc07.POSTED!8c40745b!not-for-mail
Reply-To: "Dale Parfitt" <parinc1@verizon.net>
From: "Dale Parfitt" <parinc1@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <6a508fc3-722b-4952-b70e-3bb3196a3233@k30g2000hse.googlegroups.com>
Subject: Re: Identify transistors
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
```

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <Vzrnk.526$ZV1.188@trnddc07>
Date: Sun, 10 Aug 2008 01:33:41 GMT
NNTP-Posting-Host: 72.71.122.178
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc07 1218332021 72.71.122.178 (Sat, 09 Aug 2008 21:33:41 EDT)
NNTP-Posting-Date: Sat, 09 Aug 2008 21:33:41 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:430

<jimmie68@gmail.com> wrote in message
news:6a508fc3-722b-4952-b70e-3bb3196a3233@k30g2000hse.googlegroups.com...
>I have a few transistors(I think) I am trying to identify.
> They look like stud mounted SCRs with a 1/4-28 stud but the ohmmeter
> says they are NPN transistors. They were in a bag marked "servo amp
> transistors" no ledgable markings on the transistors. Any suggestions
> as to which type they maybe.
>
>
> Jimmie

M cubed makes a nifty tester that automatically identifies the leads, type
(NPN etc) DC beta , leakage etc.

Dale W4OP

From 5787718893222654925
X-Google-Thread: fc2a5,c7bdeec6a5417005
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feeder.erje.net!
newsfeed.straub-nv.de!newsfeed.pionier.net.pl!news.nask.pl!news.nask.org.pl!
news.onet.pl!not-for-mail
From: MAc <mac_dx@tosiewytnie.poczta.onet.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: GU-81M linear
Date: Sun, 10 Aug 2008 12:58:02 +0200
Organization: x
Lines: 13
Message-ID: <g7mhjq$pqa$1@news.onet.pl>
References: <g7eggv$q7v$1@news.albasani.net>
Reply-To: mac_dx@tosiewytnie.poczta.onet.pl
NNTP-Posting-Host: host-91-123-210-43.wbs.ssh.gliwice.pl
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.onet.pl 1218365882 26442 91.123.210.43 (10 Aug 2008 10:58:02 GMT)
X-Complaints-To: usenet@news.onet.pl
NNTP-Posting-Date: Sun, 10 Aug 2008 10:58:02 +0000 (UTC)

X-Sender: tziRau1SlJeRbF6OI/pJQplh44CxR6pL
In-Reply-To: <g7eggv$q7v$1@news.albasani.net>
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
Xref: g2news1.google.com rec.radio.amateur.homebrew:431

May be google translator will help you.
This PA can work also with one tube.

http://www.cqham.ru/HiFi_Contester_EX8A.htm

This is "hard to kill" tube ;-) - very good to use in club station
(idiot proof).

search other articles by EX8A.

MAc
sp9mrn

From 8302535195068404144
X-Google-Thread: fc2a5,c7bdeec6a5417005
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Date: Sun, 10 Aug 2008 12:39:57 +0100
From: steve H
<usgzhfckxcguhsevjerxsicfcnvzcztymnvbvinscmfwghvzvczdcbxvssdfvcygfcbhtcfghbytrdfcg
vhuytfrgvhytfrgvhytfghytrfghygtyfgvhygtfg@tfif.co.uk>
User-Agent: Thunderbird 2.0.0.16 (Windows/20080708)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: GU-81M linear
References: <g7eggv$q7v$1@news.albasani.net> <g7mhjq$pqa$1@news.onet.pl>
In-Reply-To: <g7mhjq$pqa$1@news.onet.pl>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <489ed3be_2@mk-nntp-2.news.uk.tiscali.com>
Lines: 24
X-Original-NNTP-Posting-Host: 79.79.3.242
NNTP-Posting-Host: mk-nntp-2.news.uk.tiscali.com
X-Trace: 10 Aug 2008 12:40:49 +0100, mk-nntp-2.news.uk.tiscali.com
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!tiscali!
newsfeed2.ip.tiscali.net!212.74.112.120.MISMATCH!mk-nntp-1.news.uk.tiscali.com!mk-
nntp-2.news.uk.tiscali.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:432

MAc wrote:
> May be google translator will help you.
> This PA can work also with one tube.
>
> http://www.cqham.ru/HiFi_Contester_EX8A.htm
>

> This is "hard to kill" tube ;-) - very good to use in club station
> (idiot proof).
>
>
> search other articles by EX8A.
>
> MAc
> sp9mrn

Many thanks, that gives me enough info to get me started. I plan on using it for RTTY contests, I have an amp using the 4cx800 but the blower gets to me after a few hours. With the price of 3-500Z in my main amp getting silly this looks like the ideal cheap tube to use with the PSU from the 4cx800 (2800V), just bought two of them on ebay for $60 the pair + one socket. I probably wont need the spare as he's had 12 years of contesting out of a pair.

Steve H

```
From 2326448013376897549
X-Google-Thread: fc2a5,ddbc511fc15b9464,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
8g2000hse.googlegroups.com!not-for-mail
From: ha0rex@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: New site
Date: Sun, 10 Aug 2008 04:51:48 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <2329a710-5bf6-4ee4-b6db-5173224e1b7d@8g2000hse.googlegroups.com>
NNTP-Posting-Host: 84.2.106.38
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1218369109 25853 127.0.0.1 (10 Aug 2008 11:51:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 10 Aug 2008 11:51:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 8g2000hse.googlegroups.com; posting-host=84.2.106.38;
     posting-account=hUineAoAAADcf6T30Mmgy2emPeaHbuRX
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.0.1)
     Gecko/2008072820 Firefox/3.0.1,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:433
```

Hello Everybody,

My new radioamateur site is running in BETA state, the url is:

http://ha0rex.freehostia.com/

Now working: DX Cluster (now in Live!), Online Log, Users profile, the Forum is coming in some days.

Most of the functions are accesable after registration, what is simple and easy.

73, de HA0REX

From -7309281811134939149
X-Google-Thread: fc2a5,a323beb3518b0a66
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe07.iad.POSTED!7564ea0f!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <6a508fc3-722b-4952-b70e-3bb3196a3233@k30g2000hse.googlegroups.com> <Vzrnk.526$ZV1.188@trnddc07>
Subject: Re: Identify transistors
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <bkBnk.17162$1N1.9406@newsfe07.iad>
NNTP-Posting-Host: gpeodennkhijilocoacpcglhnmahciga
X-Complaints-To: abuse@charter.net
X-Trace: meohkjfdkiefkjamelpgibjinfhnghafocamgdlibfjlieengpeodennkhijilocjbdinhpldelioihkopbdnpabllomlljbcnbmfhmejmjgglmakbibeeofboalifkbchpfalgfbjoakmml
NNTP-Posting-Date: Sun, 10 Aug 2008 12:39:35 UTC
Date: Sun, 10 Aug 2008 08:39:35 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:434

"Dale Parfitt" <parinc1@verizon.net> wrote in message news:Vzrnk.526$ZV1.188@trnddc07...

> M cubed makes a nifty tester that automatically identifies the leads, type
> (NPN etc) DC beta , leakage etc.

This is a way cool device and no homebrewer should be without it.

..

From 5240168122233287024

```
X-Google-Thread: fc2a5,f8b80c7fedee51a3,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m44g2000hsc.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Pancake wound Pi coil
Date: Sun, 10 Aug 2008 07:40:10 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <d5de7f2a-d665-4e9c-a235-f0726e779d44@m44g2000hsc.googlegroups.com>
NNTP-Posting-Host: 76.226.140.61
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1218379210 21679 127.0.0.1 (10 Aug 2008 14:40:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 10 Aug 2008 14:40:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m44g2000hsc.googlegroups.com; posting-host=76.226.140.61;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.16)
     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:435
```

All I ever see for Pi coils is cylindrically wound single layer. I remember when I built my first 6146A output cw transmitter back 40 yrs ago, I used a B&W pre made coil for the Pi.

Depending on the Q and plate resistance you see coils for multi band use up to 33 uh, in transmitters.

The only place I see pancake coils used is in Tesla coils, one of which I built with a pre made 18" tall secondary coil. I wound my own primary pancake coil.

Done right a pancake coil takes up alot less room than a cylindrically wound coil.

A six inch diameter pancake coil can have the same inductance as a three inch diameter by six inch long coil with the same size wire.

Anybody know why I shouldn't use a pancake coil in my final? I just bought a 4-1000A. from ebay.

73
n8zu

```
From -6712422379315587340
X-Google-Thread: fc2a5,e2aafb8f83a56728,start
```

X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe02.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Need a crystal: 1685kc =/- 7kc
Lines: 6
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <AjEnk.17646$QX3.15203@newsfe02.iad>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe02.iad 1218384224 72.209.25.33 (Sun, 10 Aug 2008 16:03:44 UTC)
NNTP-Posting-Date: Sun, 10 Aug 2008 16:03:44 UTC
Organization: Cox
Date: Sun, 10 Aug 2008 12:03:30 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:436

Anyone have a crystal near 1685kc or so in their
junkbox? Needed for a HBR receiver project.

pete

From -6475185143757492466
X-Google-Thread: fc2a5,e2aafb8f83a56728
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe02.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <AjEnk.17646$QX3.15203@newsfe02.iad>
Subject: Re: Need a crystal: 1685kc =/- 7kc
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <goEnk.17648$QX3.831@newsfe02.iad>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe02.iad 1218384524 72.209.25.33 (Sun, 10 Aug 2008 16:08:44 UTC)
NNTP-Posting-Date: Sun, 10 Aug 2008 16:08:44 UTC

Organization: Cox
Date: Sun, 10 Aug 2008 12:08:30 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:437

That should have been plus or minus several kc if
not exactly 1685kc.

Pete

"Tio Pedro" <radioconnection@cox.net> wrote in message
news:AjEnk.17646$QX3.15203@newsfe02.iad...
> Anyone have a crystal near 1685kc or so in their
> junkbox? Needed for a HBR receiver project.
>
> pete
>
>

From 7065942518797078877
X-Google-Thread: fc2a5,f8b80c7fedee51a3
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer03.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews8.bellsouth.net.POSTED!ef55a73e!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Pancake wound Pi coil
References: <d5de7f2a-d665-4e9c-a235-f0726e779d44@m44g2000hsc.googlegroups.com>
In-Reply-To: <d5de7f2a-d665-4e9c-a235-f0726e779d44@m44g2000hsc.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 34
Message-ID: <eeHnk.7950$IB6.97@bignews8.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mabncmnekmdohbabdbdpiflmbcekedmfhojhikkbagflhcbooglbonkeldjiilpmhpibdmhglmjhdnidcj
cpdaggghnfnikafaefggikklnhjknhdkplkmhbobemncobogggbdphffccogoihdfggdmeadfgnaln
NNTP-Posting-Date: Sun, 10 Aug 2008 15:22:50 EDT
Organization: BellSouth Internet Group
Date: Sun, 10 Aug 2008 15:24:25 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:438

raypsi wrote:
> All I ever see for Pi coils is cylindrically wound single layer. I

> remember when I built my first 6146A output cw transmitter back 40 yrs
> ago, I used a B&W pre made coil for the Pi.
>
> Depending on the Q and plate resistance you see coils for multi band
> use up to 33 uh, in transmitters.
>
> The only place I see pancake coils used is in Tesla coils, one of
> which I built with a pre made 18" tall secondary coil. I wound my own
> primary pancake coil.
>
> Done right a pancake coil takes up alot less room than a cylindrically
> wound coil.
>
> A six inch diameter pancake coil can have the same inductance as a
> three inch diameter by six inch long coil with the same size wire.
>
> Anybody know why I shouldn't use a pancake coil in my final? I just
> bought a 4-1000A. from ebay.
>
> 73
> n8zu

Pancake coils are usually wound with several sections, not one large
section. The problem with these chokes is that they may exhibit
resonance within a ham band, this would be bad as the coil would
'explode' as it absorbed the power. When we had only 5 bands,
80,40,20,15 and 10 meters it was easy to design such a choke keeping any
self resonance out of the ham bands. Now that we've added 60,30,17 and
12 meters the odd's that those old chokes don't self resonate in a ham
band is not the good anymore. A single layer choke will have only one
self resonate point, and it can be made to be above 30mhz (if it falls
at 40mhz the choke would also work on 6 meters). A pancake coil may
have several self resonance points.

From -5360691368467013362
X-Google-Thread: fc2a5,a323beb3518b0a66
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!e53g2000hsa.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Identify transistors
Date: Sun, 10 Aug 2008 13:10:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
Message-ID: <93d0bb8d-8337-4968-abb5-60067043f2c0@e53g2000hsa.googlegroups.com>
References: <6a508fc3-722b-4952-b70e-3bb3196a3233@k30g2000hse.googlegroups.com>
<Vzrnk.526$ZV1.188@trnddc07> <bkBnk.17162$1N1.9406@newsfe07.iad>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

```
X-Trace: posting.google.com 1218399051 18810 127.0.0.1 (10 Aug 2008 20:10:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 10 Aug 2008 20:10:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e53g2000hsa.googlegroups.com; posting-host=204.108.8.5;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:439

On Aug 10, 8:39=A0am, "xpyttl" <xpyttl_NOS...@earthling.net> wrote:
> "Dale Parfitt" <pari...@verizon.net> wrote in message
>
> news:Vzrnk.526$ZV1.188@trnddc07...
>
> > M cubed makes a nifty tester that automatically identifies the leads, t=
ype
> > (NPN etc) DC beta , leakage etc.
>
> This is a way cool device and no homebrewer should be without it.
>
> ..

Sorry, they are NPN transistors. I was trying to find out what type
they may be to determin there suitability in a project. I have had
them since the early 70s. I also found another bag of them and they
are PNP. Beta measures at about 30.
Case style looks like a TO48.


From 6426052511580697293
X-Google-Thread: fc2a5,f8b80c7fedee51a3
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc01.POSTED!8c40745b!not-for-mail
Reply-To: "Dale Parfitt" <parinc1@verizon.net>
From: "Dale Parfitt" <parinc1@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <d5de7f2a-d665-4e9c-a235-f0726e779d44@m44g2000hsc.googlegroups.com>
<eeHnk.7950$IB6.97@bignews8.bellsouth.net>
Subject: Re: Pancake wound Pi coil
Lines: 48
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <0gJnk.557$EL2.245@trnddc01>
Date: Sun, 10 Aug 2008 21:41:16 GMT
NNTP-Posting-Host: 72.71.115.161
```

X-Complaints-To: abuse@verizon.net
X-Trace: trnddc01 1218404476 72.71.115.161 (Sun, 10 Aug 2008 17:41:16 EDT)
NNTP-Posting-Date: Sun, 10 Aug 2008 17:41:16 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:440
X-Original-Bytes: 3099

"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:eeHnk.7950$IB6.97@bignews8.bellsouth.net...
> raypsi wrote:
>> All I ever see for Pi coils is cylindrically wound single layer. I
>> remember when I built my first 6146A output cw transmitter back 40 yrs
>> ago, I used a B&W pre made coil for the Pi.
>>
>> Depending on the Q and plate resistance you see coils for multi band
>> use up to 33 uh, in transmitters.
>>
>> The only place I see pancake coils used is in Tesla coils, one of
>> which I built with a pre made 18" tall secondary coil. I wound my own
>> primary pancake coil.
>>
>> Done right a pancake coil takes up alot less room than a cylindrically
>> wound coil.
>>
>> A six inch diameter pancake coil can have the same inductance as a
>> three inch diameter by six inch long coil with the same size wire.
>>
>> Anybody know why I shouldn't use a pancake coil in my final? I just
>> bought a 4-1000A. from ebay.
>>
>> 73
>> n8zu
> Pancake coils are usually wound with several sections, not one large
> section. The problem with these chokes is that they may exhibit resonance
> within a ham band, this would be bad as the coil would 'explode' as it
> absorbed the power. When we had only 5 bands, 80,40,20,15 and 10 meters
> it was easy to design such a choke keeping any self resonance out of the
> ham bands. Now that we've added 60,30,17 and 12 meters the odd's that
> those old chokes don't self resonate in a ham band is not the good
> anymore. A single layer choke will have only one self resonate point, and
> it can be made to be above 30mhz (if it falls at 40mhz the choke would
> also work on 6 meters). A pancake coil may have several self resonance
> points.

Are we talking about the same thing here?
My take was that the poster was asking about the output pi network coil not
a plate choke- but I could be wrong. I took the question to be suitability
of a 2 dimensional spiral vs. a classic solenoid coil.
And for clarification, when you say pancake- are you talking about a 2
dimensional spiral?

Dale W4OP

From 4868532691138240037
X-Google-Thread: fc2a5,f8b80c7fedee51a3
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer03.iad.highwinds-media.com!
npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews2.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Pancake wound Pi coil
References: <d5de7f2a-d665-4e9c-a235-f0726e779d44@m44g2000hsc.googlegroups.com>
<eeHnk.7950$IB6.97@bignews8.bellsouth.net> <0gJnk.557$EL2.245@trnddc01>
In-Reply-To: <0gJnk.557$EL2.245@trnddc01>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 49
Message-ID: <Y1Knk.8307$Ep1.8176@bignews2.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcbojfmlhilhpbfkcfokobbbcmckokoagpklcj
cpdaggghnfnikafaefggikklnhjknhdkplkmhbobemncobdlakiaakanplehmblknclmkebcjgbign
NNTP-Posting-Date: Sun, 10 Aug 2008 18:34:32 EDT
Organization: BellSouth Internet Group
Date: Sun, 10 Aug 2008 18:38:15 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:441

Dale Parfitt wrote:
> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
> news:eeHnk.7950$IB6.97@bignews8.bellsouth.net...
>> raypsi wrote:
>>> All I ever see for Pi coils is cylindrically wound single layer. I
>>> remember when I built my first 6146A output cw transmitter back 40 yrs
>>> ago, I used a B&W pre made coil for the Pi.
>>>
>>> Depending on the Q and plate resistance you see coils for multi band
>>> use up to 33 uh, in transmitters.
>>>
>>> The only place I see pancake coils used is in Tesla coils, one of
>>> which I built with a pre made 18" tall secondary coil. I wound my own
>>> primary pancake coil.
>>>
>>> Done right a pancake coil takes up alot less room than a cylindrically
>>> wound coil.
>>>
>>> A six inch diameter pancake coil can have the same inductance as a
>>> three inch diameter by six inch long coil with the same size wire.

>>>
>>> Anybody know why I shouldn't use a pancake coil in my final? I just
>>> bought a 4-1000A. from ebay.
>>>
>>> 73
>>> n8zu
>> Pancake coils are usually wound with several sections, not one large
>> section. The problem with these chokes is that they may exhibit resonance
>> within a ham band, this would be bad as the coil would 'explode' as it
>> absorbed the power. When we had only 5 bands, 80,40,20,15 and 10 meters
>> it was easy to design such a choke keeping any self resonance out of the
>> ham bands. Now that we've added 60,30,17 and 12 meters the odd's that
>> those old chokes don't self resonate in a ham band is not the good
>> anymore. A single layer choke will have only one self resonate point, and
>> it can be made to be above 30mhz (if it falls at 40mhz the choke would
>> also work on 6 meters). A pancake coil may have several self resonance
>> points.
>
> Are we talking about the same thing here?
> My take was that the poster was asking about the output pi network coil not
> a plate choke- but I could be wrong. I took the question to be suitability
> of a 2 dimensional spiral vs. a classic solenoid coil.
> And for clarification, when you say pancake- are you talking about a 2
> dimensional spiral?
>
> Dale W4OP
>
>
Did he mean a toroid coil then? They have been used in tank circuits.

From 5573309337941255017
X-Google-Thread: fc2a5,f8b80c7fedee51a3
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!c58g2000hsc.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Pancake wound Pi coil
Date: Sun, 10 Aug 2008 16:39:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 68
Message-ID: <6cf3d127-2c8c-49f1-bbaf-efe542710774@c58g2000hsc.googlegroups.com>
References: <d5de7f2a-d665-4e9c-a235-f0726e779d44@m44g2000hsc.googlegroups.com>
     <eeHnk.7950$IB6.97@bignews8.bellsouth.net> <0gJnk.557$EL2.245@trnddc01>
     <Y1Knk.8307$Ep1.8176@bignews2.bellsouth.net>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1218411570 7876 127.0.0.1 (10 Aug 2008 23:39:30 GMT)
X-Complaints-To: groups-abuse@google.com

```
NNTP-Posting-Date: Sun, 10 Aug 2008 23:39:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c58g2000hsc.googlegroups.com; posting-host=204.108.8.5;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:442

On Aug 10, 6:38=A0pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
> Dale Parfitt wrote:
> > "ken scharf" <wa2mzeNOSPAMB...@bellsouth.net> wrote in message
> >news:eeHnk.7950$IB6.97@bignews8.bellsouth.net...
> >> raypsi wrote:
> >>> All I ever see for Pi coils is cylindrically wound single layer. I
> >>> remember when I built my first 6146A output cw transmitter back 40 yr=
s
> >>> ago, I used a B&W pre made coil for the Pi.
>
> >>> Depending on the Q and plate resistance you see coils for multi band
> >>> use up to 33 uh, in transmitters.
>
> >>> The only place I see pancake coils used is in Tesla coils, one of
> >>> which I built with a pre made 18" tall secondary coil. I wound my own
> >>> primary pancake coil.
>
> >>> Done right a pancake coil takes up alot less room than a cylindricall=
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> >>> wound coil.
>
> >>> A six inch diameter pancake coil can have the same inductance as a
> >>> three inch diameter by six inch long coil with the same size wire.
>
> >>> Anybody know why I shouldn't use a pancake coil in my final? I just
> >>> bought a 4-1000A. from ebay.
>
> >>> 73
> >>> n8zu
> >> Pancake coils are usually wound with several sections, not one large
> >> section. =A0The problem with these chokes is that they may exhibit res=
onance
> >> within a ham band, this would be bad as the coil would 'explode' as it
> >> absorbed the power. =A0When we had only 5 bands, 80,40,20,15 and 10 me=
ters
> >> it was easy to design such a choke keeping any self resonance out of t=
he
> >> ham bands. =A0Now that we've added 60,30,17 and 12 meters the odd's th=
at
> >> those old chokes don't self resonate in a ham band is not the good
> >> anymore. =A0A single layer choke will have only one self resonate poin=
t, and
> >> it can be made to be above 30mhz (if it falls at 40mhz the choke would
> >> also work on 6 meters). =A0A pancake coil may have several self resona=
```

nce
> >> points.
>
> > Are we talking about the same thing here?
> > My take was that the poster was asking about the output pi network coil=
 not
> > a plate choke- but I could be wrong. I took the question to be suitabil=
ity
> > of a 2 dimensional spiral vs. a classic solenoid coil.
> > And for clarification, when you say pancake- are you talking about a 2
> > dimensional spiral?
>
> > Dale W4OP
>
> Did he mean a toroid coil then? =A0They have been used in tank circuits.-=
 Hide quoted text -
>
> - Show quoted text -

Dale got it, Pretty clear to me he is talking about a coil 1 turn long
by X turns deep similar to an inductor etched on a PC board. Seems Ive
seen a 6m coil like this. 2 or 3 turn of copper capilary tubing.

Jimmie

```
From 7924331721462472275
X-Google-Thread: fc2a5,f8b80c7fedee51a3
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k7g2000hsd.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Pancake wound Pi coil
Date: Sun, 10 Aug 2008 16:39:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 39
Message-ID: <a343c6e8-0f69-4a40-abf8-2fb85ec3b574@k7g2000hsd.googlegroups.com>
References: <d5de7f2a-d665-4e9c-a235-f0726e779d44@m44g2000hsc.googlegroups.com>
NNTP-Posting-Host: 76.226.140.61
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1218411589 7908 127.0.0.1 (10 Aug 2008 23:39:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 10 Aug 2008 23:39:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k7g2000hsd.googlegroups.com; posting-host=76.226.140.61;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.16)
     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:443

On Aug 10, 10:40 am, raypsi <RBorow...@gmail.com> wrote:
> All I ever see for Pi coils is cylindrically wound single layer. I
> remember when I built my first 6146A output cw transmitter back 40 yrs
> ago, I used a B&W pre made coil for the Pi.
>
> Depending on the Q and plate resistance you see coils for multi band
> use up to 33 uh, in transmitters.
>
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> which I built with a pre made 18" tall secondary coil. I wound my own
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> wound coil.
>
> A six inch diameter pancake coil can have the same inductance as a
> three inch diameter by six inch long coil with the same size wire.
>
> Anybody know why I shouldn't use a pancake coil in my final? I just
> bought a 4-1000A. from ebay.
>
> 73
> n8zu

Well we all know what an roller inductor is?
Here is a pix of one: http://www.palstar.com/ri20.php

So here is a link to a java program to calculate a
flat spiral pancake coil:
http://www.classictesla.com/java/calculat.html

I might have confused people with pi wound coils I'ma
not talking about pi wound coils such as the 3 pi
coil found here:
http://www.oselectronics.com/ose_p91.htm

I want to use a flat spiral wound coil to replace a roller inductor.
Like the one in the above mentioned roller inductor link.
Any pro's and con's on this topic?

From 2375969508211655676
X-Google-Thread: fc2a5,f8b80c7fedee51a3
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!f63g2000hsf.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Pancake wound Pi coil
Date: Sun, 10 Aug 2008 17:29:37 -0700 (PDT)

```
Organization: http://groups.google.com
Lines: 10
Message-ID: <089f6705-8cf6-4fee-bb70-4b9c81f11d7e@f63g2000hsf.googlegroups.com>
References: <d5de7f2a-d665-4e9c-a235-f0726e779d44@m44g2000hsc.googlegroups.com>
     <a343c6e8-0f69-4a40-abf8-2fb85ec3b574@k7g2000hsd.googlegroups.com>
NNTP-Posting-Host: 76.226.140.61
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1218414578 15707 127.0.0.1 (11 Aug 2008 00:29:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 11 Aug 2008 00:29:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f63g2000hsf.googlegroups.com; posting-host=76.226.140.61;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.16)
     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:444
```

To calculate the coil I want to replace this is the link:

http://www.qsl.net/in3otd/indcalc.html

here is a link to a image of a flat spiral coil: aka pancake coil

http://pulsedpower.de/inductances/img_spiral.gif

73
n8zu

```
From 4456913120486342434
X-Google-Thread: fc2a5,414dee23e1b634ef,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!v39g2000pro.googlegroups.com!not-for-
mail
From: AndyTao <22265737@qq.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Impedance Heaters
Date: Sun, 10 Aug 2008 17:42:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 2
Message-ID: <97ff526f-fd7a-41cd-8234-e2b3096baf9b@v39g2000pro.googlegroups.com>
NNTP-Posting-Host: 222.90.195.34
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1218415359 17730 127.0.0.1 (11 Aug 2008 00:42:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 11 Aug 2008 00:42:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
```

Injection-Info: v39g2000pro.googlegroups.com; posting-host=222.90.195.34;
posting-account=z1tK3woAAADzVgrWUYzhEBjYRmrdTp5w
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
Maxthon),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:445

High pressure, high temperature industrial process heaters
http://www.ogogo123sina.cn/

From 7873965761806407199
X-Google-Thread: fc2a5,f8b80c7fedee51a3
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y21g2000hsf.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Pancake wound Pi coil
Date: Sun, 10 Aug 2008 19:43:51 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <8ec92133-4258-4d1d-92be-54bfd999239e@y21g2000hsf.googlegroups.com>
References: <d5de7f2a-d665-4e9c-a235-f0726e779d44@m44g2000hsc.googlegroups.com>
<a343c6e8-0f69-4a40-abf8-2fb85ec3b574@k7g2000hsd.googlegroups.com>
<089f6705-8cf6-4fee-bb70-4b9c81f11d7e@f63g2000hsf.googlegroups.com>
NNTP-Posting-Host: 76.226.140.61
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1218422631 4331 127.0.0.1 (11 Aug 2008 02:43:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 11 Aug 2008 02:43:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y21g2000hsf.googlegroups.com; posting-host=76.226.140.61;
posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.16)
Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:446

I guess what I really wanted to do is make a PA
for all bands with a plug in PCB. That would have
the right size coils etched into it for each band.
So when I change bands I would just unplug one
band PCB and plug in another PCB for the band
I want. Rather than a band switch that would arc
out. Or a roller inductor that I would have to turn
to the right number of turns to get to the band I
want. Alot cheaper to plug in PCB's than the
price of a band switch with lots of wires
or roller inductor.

This would eliminate trouble switching to 10
meters with a band switch I suspect.

I'd use an edge card connector to plug the coils/PCB
into and out of an edge connector.

From 1552665026229586677
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!news.kjsl.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Pancake wound Pi coil
Date: Sun, 10 Aug 2008 22:57:34 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 48
Sender: et472@72.0.192.107
Message-ID: <Pine.LNX.4.64.0808102249110.17698@darkstar.example.org>
References: <d5de7f2a-d665-4e9c-a235-f0726e779d44@m44g2000hsc.googlegroups.com>
  <a343c6e8-0f69-4a40-abf8-2fb85ec3b574@k7g2000hsd.googlegroups.com>
 <089f6705-8cf6-4fee-bb70-4b9c81f11d7e@f63g2000hsf.googlegroups.com>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:447

On Sun, 10 Aug 2008, raypsi wrote:

> I guess what I really wanted to do is make a PA
> for all bands with a plug in PCB. That would have
> the right size coils etched into it for each band.
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> meters with a band switch I suspect.
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> I'd use an edge card connector to plug the coils/PCB
> into and out of an edge connector.
>

Well you wouldn't be changing bands with the transmitter going. So in that regard, plug-in coils, bandswitch or jumpers are about the same.

People like switches so they don't have to turn off their transmitter (to ensure not dangerous voltages) reach into their transmitter and plug in coils. If you have to reach in, at least some of the other possibilities are viable.

Your edge connector may introduce problems of bad contacts. If you have to run current through them, bad contacts will not be a good thing.

And I'd add that a large inductor may not be feasible etched on a circuit board. The only times I've seen coils etched into circuit board have been when the coils are low inductance, the sort of values you'd see at VHF and UHF. Making a coil large enough may result in way too big a plugin board.

You haven't really specified, I don't think, whether this is a tube or transistor transmitter. In the days of tubes, the transmitters were narrow band. With transistors, they've generally been broad band. So with transistor transmitters, the bandwitching has been about switching in bandpass or low pass filters for each band, and since the broadband transmitter has 50ohm output impedance, the switching is relatively easy.

Michael VE2BVW

From 3572409885307167671
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!w7g2000hsa.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Pancake wound Pi coil
Date: Sun, 10 Aug 2008 21:21:54 -0700 (PDT)
Organization: http://groups.google.com
Lines: 69
Message-ID: <2a17f24e-dfd6-4196-89a6-c2b90d4596e8@w7g2000hsa.googlegroups.com>
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     <a343c6e8-0f69-4a40-abf8-2fb85ec3b574@k7g2000hsd.googlegroups.com>
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Complaints-To: groups-abuse@google.com
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.16)
     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:448

On Aug 10, 10:57 pm, Michael Black <et...@ncf.ca> wrote:
> On Sun, 10 Aug 2008, raypsi wrote:
> > I guess what I really wanted to do is make a PA
> > for all bands with a plug in PCB. That would have
> > the right size coils etched into it for each band.
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> > or roller inductor.
> > This would eliminate trouble switching to 10
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>
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>
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> the transmitters were narrow band.  With transistors, they've
> generally been broad band.  So with transistor transmitters,
```

> the bandwitching has been about switching in bandpass or low pass filters for each band, and since the broadband transmitter has 50ohm output impedance, the switching is relatively easy.
>
> Michael VE2BVW

Yes it's a tube PA I bought a 4-1000A from ebay there isn't much current at 6000 volts at least not for Ham Radio power. there's a variety of ways to power down the PA as soon as I start to pull the PCB out before it becomes disconnected. And to soft start it up as I'm plugging another PCB coil in.

The inductance is more dependent on the diameter of the coil and the number turns on the coil. So a 6 inch square PCB with a 6 inch diameter 10 turn coil etched on it would work 160 meter band. Or at least it has enough inductance to operate on the 160 meter band.

I've seen too many of a senior moment when they hot switch a band switch or when parasitics build up from a shorted parasitic resistor and the VHF RF goes to that band switch looking for a path to ground blowing it to kingdom come.

73
n8zu

From 7171677631110293243
X-Google-Thread: fc2a5,f8b80c7fedee51a3
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Sun, 10 Aug 2008 21:12:45 -0700
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:449

> I guess what I really wanted to do is make a PA
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> or roller inductor.
> This would eliminate trouble switching to 10
> meters with a band switch I suspect.
>
> I'd use an edge card connector to plug the coils/PCB
> into and out of an edge connector.

That sounds rather like the Norcal Sierra design.  The pluggable band
modules on the Sierra use toroidal coils for the band-specific lowpass
and bandpass filters.  The PA itself appears to be a broadband design.

--
Dave Platt <dplatt@radagast.org>                                   AE6EO
Friends of Jade Warrior home page:  http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!


From -7112718618354772992
X-Google-Thread: fc2a5,89debc58cee84e,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
x35g2000hsb.googlegroups.com!not-for-mail
From: Alec <yttoh.etis@googlemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Choice of DC blocking Capacitors in Microstrip Design
Date: Mon, 11 Aug 2008 08:47:07 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <28a6430c-9be4-4b6b-b017-ed211b752b7e@x35g2000hsb.googlegroups.com>
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InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:450
```

Hi,

I was wondering as to how to choose the correct value of a DC blocking capacitor with least possible reactance with atleast 5V and 20mA. Center Frequency 910MHz. The value of capacitor that i need is above 200pF..

I know the thumb rule that SRF(self resonant frequency) > 2 Operating frequency. but i enquired both Farnell and Rscomponents distributors in UK as am here .., Only low value capacitors satify the above criteria of SRF. How do i proceed with the same...

Thanks a lot
Alec

```
From -1078489716634767996
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cyclone1.gnilink.net!gnilink.net!wns13feed!worldnet.att.net!attbi_s22.POSTED!
53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <28a6430c-9be4-4b6b-b017-ed211b752b7e@x35g2000hsb.googlegroups.com>
Subject: Re: Choice of DC blocking Capacitors in Microstrip Design
Lines: 19
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X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
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Organization: AT&T ASP.att.net
Date: Mon, 11 Aug 2008 19:03:13 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2902
```

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> capacitor with least possible reactance with atleast 5V and 20mA.
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> frequency. but i enquired both Farnell and Rscomponents distributors
> in UK as am here .., Only low value capacitors satify the above
> criteria of SRF. How do i proceed with the same...
>
> Thanks a lot
> Alec

Well, you might try paralleling a bunch of little ones.

W4ZCB

From -8320520576139522297
X-Google-Thread: fc2a5,89debc58cee84e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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From: Bob Doyle <spamthisrealgood@gmail.com>
User-Agent: Mozilla Thunderbird 1.0.2 (Windows/20050317)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Choice of DC blocking Capacitors in Microstrip Design
References: <28a6430c-9be4-4b6b-b017-ed211b752b7e@x35g2000hsb.googlegroups.com>
In-Reply-To: <28a6430c-9be4-4b6b-b017-ed211b752b7e@x35g2000hsb.googlegroups.com>
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X-Trace: newsfe01.iad 1218504425 68.3.161.108 (Tue, 12 Aug 2008 01:27:05 UTC)
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Organization: Cox
Date: Mon, 11 Aug 2008 18:27:11 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:452

Alec wrote:
> Hi,
>
> I was wondering as to how to choose the correct value of a DC blocking

> capacitor with least possible reactance with atleast 5V and 20mA. Center Frequency 910MHz. The value of capacitor that i need is above 200pF..
>
> I know the thumb rule that SRF(self resonant frequency) > 2 Operating frequency. but i enquired both Farnell and Rscomponents distributors in UK as am here .., Only low value capacitors satify the above criteria of SRF. How do i proceed with the same...
>
> Thanks a lot
> Alec

I'm confused. Why do you care what the capacitance is? If you choose a capacitor that is series resonant at 910 MHz (i.e., the reactance is zero), isn't that is the best bypass capacitor or coupling capacitor that you can get.

If you are doing high volume work, you may want to standardize on a high quality (porcelain, etc) capacitor from single manufacturer so that the SRF is tightly controlled.

If you need the 200pf for DC (or low frequency) reasons, consider two different capacitors - one for low frequencies and one for high frequencies. You'll need to isolate them so they don't interact unexpectedly.

I doubt whether you'll find a 200pf cap with that SRF.

Bob.

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c65g2000hsa.googlegroups.com!not-for-mail
From: Travis <TravisCurrier@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FREE: 70 Page RF Products Catalog
Date: Fri, 15 Aug 2008 12:39:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
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NNTP-Posting-Date: Fri, 15 Aug 2008 19:39:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c65g2000hsa.googlegroups.com; posting-host=72.54.251.178;

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     Gecko/2008070208 Firefox/3.0.1,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:453
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Hope you guys all have a great day and I will look forward to helping you on all your RF needs

Travis Currier
AAA RF Products
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Email:sales@aaarfproducts.com
Website: www.aaarfproducts.com
Location: San Clemente, CA

```
From -4482814072221858517
X-Google-Thread: fc2a5,79c4ba38a2055ae5,start
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Path: g2news1.google.com!news2.google.com!postnews.google.com!
k37g2000hsf.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 4-1000A VALVE/TUBE
Date: Fri, 15 Aug 2008 17:47:44 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
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     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:454
```

I just got my 4-1k tube. It turned out to be a Sylvania brand.
I know Sylvania sold transmitting tubes.
But did Sylvania make them or buy them from another vender?

This one I got from ebay:
has a code date of 8806.

The history on it: was pulled from an AM
broadcast station in 1993, from the AM modulator.

And does anybody know the cold resistance or the filament?
I haven't seen any inrush current limiting circuits for the 4-1k.

73

n8zu

```
From -255747931068878971
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nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 16 Aug 2008 00:04:28 -0500
From: pdlemper@earthlink.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Sending power into rig unused for 30 years : Precautions ?
Date: Sat, 16 Aug 2008 00:04:06 -0500
Message-ID: <nrkca49jtg6kp1rtqqahijcatd2mi23vvh@4ax.com>
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MIME-Version: 1.0
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Content-Transfer-Encoding: 7bit
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NXwEQCWngwKSqcFRTjNDIPhHMQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:455
```

Now retired I'm trying to become active again.
My TS-520S has not been on for 30 years.
I don't have a variactor (variable transformer).
At the TARC advice was to put a lightbulb in series
to take the surge.   Should I use a high resistance
(low wattage) bulb or vice versa ?
Would this be as good as a simple L-C network ?
Somebody said just plug it in. Are there any other

ideas ?
Thanks for your kind assistance.
Dave WB3DWE Temple, TX pdlemper@earthlink.net

```
From 7148496326072548769
X-Google-Thread: fc2a5,c81e066aa8e0848f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.lmi.net!news.lmi.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 16 Aug 2008 01:08:15 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sending power into rig unused for 30 years : Precautions ?
References: <nrkca49jtg6kp1rtqqahijcatd2mi23vvh@4ax.com>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Fri, 15 Aug 2008 23:03:28 -0700
Message-ID: <g67in5-gsc.ln1@radagast.org>
Lines: 56
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 76.191.159.165
X-Trace: sv3-
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RsLZAAltiryw+4ZEQTz6hNBthRx7X/Eh89rDKWdpG6iWjDKF/FFRs10yl3PhTw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:456
```

>Now retired I'm trying to become active again.
>My TS-520S has not been on for 30 years.
>I don't have a variactor (variable transformer).

I'd strongly encourage you to ask around, find somebody who has one, and do the power-up with the variable-voltage transformer. Take your time - ease the voltage up from zerch to nominal over a period of a few minutes.

>At the TARC advice was to put a lightbulb in series
>to take the surge.   Should I use a high resistance
>(low wattage) bulb or vice versa ?

If you do this, do the former... low-wattage. You want to power up the rig *slowly*, so that the dielectrics in the electrolytic capacitors have a chance to re-form gently. The lower the wattage of the bulb (the higher the resistance) the longer it'll take to charge the power supply fully and the lower the final voltage will be.

You could do it in stages. Wire up a standard light-bulb socket in series with a power cord for the rig. Start out with a 5-watt bulb, power up, let the rig sit for a few minutes, power down again, switch to a 25-watt bulb, repeat the process again... then go to a 100-watt bulb, then a 200-watt bulb.

This approach isn't as effective, or as controllable, as using a Variac or similar variable-voltage transformer. The bulb's resistance will be low when it's cold, and will rise when it heats up... so it won't limit the initial inrush current all that effectively.

>Would this be as good as a simple L-C network ?
>Somebody said just plug it in.

It might easily go BOOM if you do. If it's been sitting around un-powered for 30 years, the dielectic oxide layer in the power supply caps may have thinned and developed pinholes... hitting it with full mains voltage and no current limiting could result in a sudden short circuit inside the caps. They're quite spectacular when they blow... messy, though.

> Are there any other
>ideas ?

Negative-temperature-coefficient resistor instead of a light bulb? These are used as inrush suppressors in switching power supplies... their initial resistance is high when they're cold, and drops when they warm up.

Borrowing the use of a Variac for half an hour is still a better way to do it, I think.

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

From 7262412474864795721
X-Google-Thread: fc2a5,79c4ba38a2055ae5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!w7g2000hsa.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 4-1000A VALVE/TUBE
Date: Sat, 16 Aug 2008 19:52:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 30
Message-ID: <c01e3b92-c153-4140-be4f-8d30fd51b998@w7g2000hsa.googlegroups.com>
References: <f6dad03b-6a63-4603-bdbe-9869f26f788b@k37g2000hsf.googlegroups.com>

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NNTP-Posting-Host: 76.226.140.61
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1218941569 17221 127.0.0.1 (17 Aug 2008 02:52:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 17 Aug 2008 02:52:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w7g2000hsa.googlegroups.com; posting-host=76.226.140.61;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2908
```

>
> And does anybody know the cold resistance or the filament?
> I haven't seen any inrush current limiting circuits for the 4-1k.
>
> 73
>
> n8zu

I just put my home made amper on the filament. Actually a 2.80 amp
amper.
I couldn't find my 7805 I use for a constant current source. So I had
the 5 ohm resistor in series with my 14 volt regulated supply. My 5
ohm resistor is 40 ft of cat3 3 pair telephone wire for a total of 240
ft of 24 AWG wire. I put that in series with the 4-1k filament and
across 14.0 volt regulated supply it draws 2.80 amps.
The voltage drop on the filament was 0.100 volts and a filament
resistance at 0.100 volts is 0.0357 ohms. Funny because at 7.5VAC
it's exactly 10 times that resistance.
I can't afford peter dahl transformers. I has to use MOT's for the
filament screen and plate supplies. I have to use 2 MOT's to get the
power I need. This works out to my advantage because with 2 filaments
in series it gives me 7.5VAC CT, but at a current that is only limited
by the 14AWG wire they use for the winding. Two MOT's 14AWG wire would
limit the inrush current to about 150 amps of instantaneous current at
the peak voltage.

73

n8zu

```
From 3281121375855952726
X-Google-Thread: fc2a5,3852c0fba135a051,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
f36g2000hsa.googlegroups.com!not-for-mail
```

```
From: Jae <jevans2819@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: DDS
Date: Sat, 16 Aug 2008 20:13:29 -0700 (PDT)
Organization: http://groups.google.com
Lines: 4
Message-ID: <4305863c-c39c-4ac4-a9f8-850358669aeb@f36g2000hsa.googlegroups.com>
NNTP-Posting-Host: 67.33.107.14
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1218942809 20512 127.0.0.1 (17 Aug 2008 03:13:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 17 Aug 2008 03:13:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f36g2000hsa.googlegroups.com; posting-host=67.33.107.14;
     posting-account=NADRNAoAAACi21aUHefYST0JM5Fdn38C
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; (R1 1.5);
     .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:458

Does anyone have CCS compiler code for a PIC16F877A running a AD9954
sweeping around 175Mhz.

JAE


From -9147238596072815304
X-Google-Thread: fc2a5,c81e066aa8e0848f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
u6g2000prc.googlegroups.com!not-for-mail
From: Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sending power into rig unused for 30 years : Precautions ?
Date: Sun, 17 Aug 2008 00:35:51 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <958d098b-e530-4a91-bc9d-a89209825073@u6g2000prc.googlegroups.com>
References: <nrkca49jtg6kp1rtqqahijcatd2mi23vvh@4ax.com> <g67in5-
gsc.ln1@radagast.org>
NNTP-Posting-Host: 218.215.128.218
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1218958552 18486 127.0.0.1 (17 Aug 2008 07:35:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 17 Aug 2008 07:35:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u6g2000prc.googlegroups.com; posting-host=218.215.128.218;
     posting-account=LRLqpgkAAACt8OsWZnclc0j8ufDGwSA0
```

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User-Agent: G2/1.0
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     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:459

On Aug 16, 4:03 pm, dpl...@radagast.org (Dave Platt) wrote:
> >Now retired I'm trying to become active again.
> >My TS-520S has not been on for 30 years.
> >I don't have a variactor ( variable transformer ).
>

KISS. Wire a 60w light globe in series, turn it on, let it sit for a
few hours. Filaments OFF for this test.

Havent used a variac for this for years - reason - its the switch on
current surge thats going to kill old electros, and the variac has no
current limiting whereas the light bulb does. You will see a brief
"Flash" as the caps charge up, then maybe a dull glow, eventually, no
light at all.

Given that the caps used were / are modern, and of good quality to
start with, the KISS method works well.

Oh, BTW - when all this is done, apply full mains power, let the tube
filaments  soak for a few hours lest they have gone gassy.

Andrew VK3BFA.


From 5919843753794831730
X-Google-Thread: fc2a5,c81e066aa8e0848f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
w7g2000hsa.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sending power into rig unused for 30 years : Precautions ?
Date: Sun, 17 Aug 2008 05:29:58 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <4c6e9b98-5d9e-4234-a4ae-efa3723df209@w7g2000hsa.googlegroups.com>
References: <nrkca49jtg6kp1rtqqahijcatd2mi23vvh@4ax.com> <g67in5-
gsc.ln1@radagast.org>
     <958d098b-e530-4a91-bc9d-a89209825073@u6g2000prc.googlegroups.com>
NNTP-Posting-Host: 76.226.140.61
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1218976198 10509 127.0.0.1 (17 Aug 2008 12:29:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 17 Aug 2008 12:29:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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Injection-Info: w7g2000hsa.googlegroups.com; posting-host=76.226.140.61;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
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     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:460

I tell you what Dave:

Save the grief and replace the caps.
What your'e doing is betting that
you can reform the electrolyte that
may be left in the capacitors after
30+ years.

I hope you win that bet.

73 OM

n8zu

From -2010097875795451175
X-Google-Thread: fc2a5,c81e066aa8e0848f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 17 Aug 2008 08:21:36 -0500
Date: Sun, 17 Aug 2008 14:21:24 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sending power into rig unused for 30 years : Precautions ?
References: <nrkca49jtg6kp1rtqqahijcatd2mi23vvh@4ax.com> <g67in5-
gsc.ln1@radagast.org> <958d098b-e530-4a91-bc9d-
a89209825073@u6g2000prc.googlegroups.com>
In-Reply-To: <958d098b-e530-4a91-bc9d-a89209825073@u6g2000prc.googlegroups.com>
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Content-Transfer-Encoding: 7bit
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NNTP-Posting-Host: 85.210.64.156
X-Trace: sv3-
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JPz2IFzy3k3/qCvhvVn+xMzvjg==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers

```
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:461

Andrew VK3BFA wrote:
> On Aug 16, 4:03 pm, dpl...@radagast.org (Dave Platt) wrote:
>>> Now retired I'm trying to become active again.
>>> My TS-520S has not been on for 30 years.
>>> I don't have a variactor ( variable transformer ).
>
> KISS. Wire a 60w light globe in series, turn it on, let it sit for a
> few hours. Filaments OFF for this test.
>
> Havent used a variac for this for years - reason - its the switch on
> current surge thats going to kill old electros, and the variac has no
> current limiting whereas the light bulb does. You will see a brief
> "Flash" as the caps charge up, then maybe a dull glow, eventually, no
> light at all.
==============================================
Don't understand the above.
When using a variac starting at zero and gradually increasing the
voltage there can't be any appreciable inrush current.

I happen to have a 8 Amperes variac and would always use it to 'fire-up'
a previously retired oldtimer (boat anchor)

I have a rather large junk box with high capacitance value elcos  and
recently exposed them all to a 'zero to max working voltage' from an
adjustable HV PSU. I do that once every 3 years.

Frank    GM0CSZ / KN6WH


From -1994190559627794179
X-Google-Thread: fc2a5,c81e066aa8e0848f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews9.bellsouth.net.POSTED!745a77b1!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
From: Edwin Johnson <edwinljohnson@bellsouth.net>
Subject: Re: Sending power into rig unused for 30 years : Precautions ?
References: <nrkca49jtg6kp1rtqqahijcatd2mi23vvh@4ax.com>
User-Agent: slrn/0.9.8.0 (Linux)
Lines: 21
Message-ID: <6PVpk.11343$XB4.7032@bignews9.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
okjdhlmeenidhihjdbdpiflmbcekedmfhojhikkbagflhcbopealodhgcecdgicjffdjdnogjnbmpoklcf
```

hbhgbbecoicpjhdglkpbiapdcnhnjndkplkmhbobemncobcpfagapemhnfkbhahgleaeldlllnhdpc
NNTP-Posting-Date: Sun, 17 Aug 2008 09:36:02 EDT
Organization: BellSouth Internet Group
Date: Sun, 17 Aug 2008 13:36:02 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:462

On 2008-08-16, pdlemper@earthlink.net <pdlemper@earthlink.net> wrote:
> Now retired I'm trying to become active again.
> My TS-520S has not been on for 30 years.
> I don't have a variactor (variable transformer).
~
> Dave WB3DWE Temple, TX pdlemper@earthlink.net

I went through this a few years ago with a Drake TR-4. Not having a
variactor available, someone suggested a light dimmer used for incadescent
lights. Since I was not planning to transmit nor draw much current, just
that used with receive, it worked very fine and isn't expensive. I simply
used a meter to measure the voltage. I ran several days at about 50vac and
then up to 75vac for a couple of days, and then up to full voltage.

...Edwin, KD5ZLB

--
____
"Once you have flown, you will walk the earth with your eyes
turned skyward, for there you have been, there you long to
return."-da Vinci http://bellsouthpwp2.net/e/d/edwinljohnson

From 1178569916688916304
X-Google-Thread: fc2a5,c81e066aa8e0848f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
w39g2000prb.googlegroups.com!not-for-mail
From: Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sending power into rig unused for 30 years : Precautions ?
Date: Sun, 17 Aug 2008 15:42:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 12
Message-ID: <826af4ef-e163-4055-8eab-f1dd572ac6d5@w39g2000prb.googlegroups.com>
References: <nrkca49jtg6kp1rtqqahijcatd2mi23vvh@4ax.com> <g67in5-
gsc.ln1@radagast.org>
     <958d098b-e530-4a91-bc9d-a89209825073@u6g2000prc.googlegroups.com>
     <K5r4rF.4o0@dk3uz.ampr.org>
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1219012925 25305 127.0.0.1 (17 Aug 2008 22:42:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 17 Aug 2008 22:42:05 +0000 (UTC)

Complaints-To: groups-abuse@google.com
Injection-Info: w39g2000prb.googlegroups.com; posting-host=218.215.128.218;
posting-account=LRLqpgkAAACt8OsWZnclc0j8ufDGwSA0
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.16)
Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:464

On Aug 18, 1:38 am, ehr...@dk3uz.ampr.org (Edmund H. Ramm) wrote:

> In <958d098b-e530-4a91-bc9d-a89209825...@u6g2000prc.googlegroups.com> Andrew VK3BFA <vk3...@hotmail.com> writes:
>
>   Are physics reversed down under? Up here in the old world a light
> bulb's filament (tungsten) resistance increases with temperature.
>

Er - yes, thats correct.So whats the problem?

Andrew VK3BFA.

From -7490503535418307945
X-Google-Thread: fc2a5,c81e066aa8e0848f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z11g2000prl.googlegroups.com!not-for-mail
From: Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sending power into rig unused for 30 years : Precautions ?
Date: Sun, 17 Aug 2008 15:44:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <e7a6c9ad-640b-4c31-aa8a-ead3b3ef3b18@z11g2000prl.googlegroups.com>
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<958d098b-e530-4a91-bc9d-a89209825073@u6g2000prc.googlegroups.com>
<seKdnVBGzaB9uDXVnZ2dnUVZ8tbinZ2d@pipex.net>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
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Complaints-To: groups-abuse@google.com
Injection-Info: z11g2000prl.googlegroups.com; posting-host=218.215.128.218;
posting-account=LRLqpgkAAACt8OsWZnclc0j8ufDGwSA0
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.16)
Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)

Xref: g2news1.google.com rec.radio.amateur.homebrew:465

On Aug 17, 11:21 pm, Highland Ham <abcgm0csz.kn6wh...@dsl.pipex.com>
wrote:
>
> ==
> Don't understand the above.
> When using a variac starting at zero and gradually increasing the
> voltage there can't be any appreciable inrush current.
>
> I happen to have a 8 Amperes variac and would always use it to 'fire-up'
> a previously retired oldtimer (boat anchor)
>
> I have a rather large junk box with high capacitance value elcos and
> recently exposed them all to a 'zero to max working voltage' from an
> adjustable HV PSU. I do that once every 3 years.
>
> Frank   GM0CSZ / KN6WH

Well, mine took out a few SMPS power supplies, and its a pain in the
arse to set up, connect meters, gingerly spend time slowly
incrementing the voltage - life is too short to stuff around......

Hey, you got time to do Rocket Science, thats fine. Each to his own.

Andrew VK3BFA.

From -7087491056553029911
X-Google-Thread: fc2a5,f8b80c7fedee51a3
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.clear.net.nz!news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 17 Aug 2008 19:11:41 -0500
Date: Mon, 18 Aug 2008 12:11:55 +1200
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Pancake wound Pi coil
References: <d5de7f2a-d665-4e9c-a235-f0726e779d44@m44g2000hsc.googlegroups.com>
     <a343c6e8-0f69-4a40-abf8-2fb85ec3b574@k7g2000hsd.googlegroups.com>
     <089f6705-8cf6-4fee-bb70-4b9c81f11d7e@f63g2000hsf.googlegroups.com>
     <8ec92133-4258-4d1d-92be-54bfd999239e@y21g2000hsf.googlegroups.com>
     <Pine.LNX.4.64.0808102249110.17698@darkstar.example.org> <2a17f24e-
dfd6-4196-89a6-c2b90d4596e8@w7g2000hsa.googlegroups.com>
In-Reply-To: <2a17f24e-dfd6-4196-89a6-c2b90d4596e8@w7g2000hsa.googlegroups.com>

```
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 080817-0, 17/08/2008), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-5-53.dsl.telstraclear.net
Message-ID: <48a8be36@clear.net.nz>
X-Original-Trace: 18 Aug 2008 12:11:34 +1200, 121-72-5-53.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 82
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-AuthenticatedUsername: news10531
X-Trace: sv3-jbOuc3016esShlGt6pxdM831TiRdcBRrCDqlVniX4LXIAO7+RA+G18DUJFbtjVJmB2/
KUpEk9cFxaWr!SpF1dnE7JnDZe+k+79cHRTpOtoH0hp4/Zz8CBPwACWXY2OcVUjg1Tu8=
X-Complaints-To: abuse@clear.net.nz
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:466

raypsi wrote:
> On Aug 10, 10:57 pm, Michael Black <et...@ncf.ca> wrote:
>
>>On Sun, 10 Aug 2008, raypsi wrote:
>>
>>>I guess what I really wanted to do is make a PA
>>>for all bands with a plug in PCB. That would have
>>>the right size coils etched into it for each band.
>>>So when I change bands I would just unplug one
>>>band PCB and plug in another PCB for the band
>>>I want. Rather than a band switch that would arc
>>>out. Or a roller inductor that I would have to turn
>>>to the right number of turns to get to the band I
>>>want. Alot cheaper to plug in PCB's than the
>>>price of a band switch with lots of wires
>>>or roller inductor.
>>>This would eliminate trouble switching to 10
>>>meters with a band switch I suspect.
>>
>>>I'd use an edge card connector to plug the coils/PCB
>>>into and out of an edge connector.
>>
>>Well you wouldn't be changing bands with the transmitter
>>going.  So in that regard, plug-in coils, bandswitch or
>>jumpers are about the same.
>>
>>People like switches so they don't have to turn off their
>>transmitter (to ensure not dangerous voltages) reach into their
>>transmitter and plug in coils.  If you have to reach in,
>>at least some of the other possibilities are viable.
```

>>
>>Your edge connector may introduce problems of bad contacts.
>>If you have to run current through them, bad contacts will
>>not be a good thing.
>>
>>And I'd add that a large inductor may not be feasible etched
>>on a circuit board. The only times I've seen coils etched
>>into circuit board have been when the coils are low inductance,
>>the sort of values you'd see at VHF and UHF. Making a coil
>>large enough may result in way too big a plugin board.
>>
>>You haven't really specified, I don't think, whether this
>>is a tube or transistor transmitter. In the days of tubes,
>>the transmitters were narrow band. With transistors, they've
>>generally been broad band. So with transistor transmitters,
>>the bandwitching has been about switching in bandpass or low
>>pass filters for each band, and since the broadband transmitter
>>has 50ohm output impedance, the switching is relatively easy.
>>
>>   Michael VE2BVW
>
>
> Yes it's a tube PA I bought a 4-1000A from ebay
> there isn't much current at 6000 volts at least not for
> Ham Radio power. there's a variety of ways to power down the
> PA as soon as I start to pull the PCB out before it becomes
> disconnected. And to soft start it up as I'm plugging another
> PCB coil in.
>
> The inductance is more dependent on the diameter of the coil
> and the number turns on the coil. So a 6 inch square PCB
> with a 6 inch diameter 10 turn coil etched on it would
> work 160 meter band. Or at least it has enough inductance
> to operate on the 160 meter band.
>
> I've seen too many of a senior moment when they hot switch
> a band switch or when parasitics build up from a shorted
> parasitic resistor and the VHF RF goes to that band switch
> looking for a path to ground blowing it to kingdom come.
>
> 73
> n8zu
>
Gosh! I thought I was the only one left making pancake coils.
Of course mine were for my little 30watt rotary spark gap TX.
Its one I use at NZVRS exhibitions to show visitors what spark
stations looked like. The "ring of fire" effect always fascinates them.
In the case of Tesla and spark gear generally the fact that the 2 ends
of the winding were widely separated was very important as the peak
voltages were so high.
It would be intersting to here if you idea pans out.
73 Cliff Wright ZL1BDA ex G3NIA

```
From 4633515686747278419
X-Google-Thread: fc2a5,b2461839f139fd6d,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
26g2000hsk.googlegroups.com!not-for-mail
From: mrhaney <w4pqw@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Wanted, Diodes
Date: Sun, 17 Aug 2008 18:12:56 -0700 (PDT)
Organization: http://groups.google.com
Lines: 3
Message-ID: <3e143b92-6e3e-4872-b021-03f0cf26237b@26g2000hsk.googlegroups.com>
NNTP-Posting-Host: 72.216.40.68
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1219021976 1554 127.0.0.1 (18 Aug 2008 01:12:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 18 Aug 2008 01:12:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 26g2000hsk.googlegroups.com; posting-host=72.216.40.68;
     posting-account=iDa5ggkAAADrhtwpj3fwoB8ZHtIo_pzj
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     FunWebProducts; .NET CLR 2.0.50727; .NET CLR 3.0.04506.648; .NET CLR
     3.5.21022),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:467
```

I am looking for a few (10) diodes 1N270...It is a germanium and used
in Double Balanced mixers in SSB generation..Most suppliers have a $25
to $50 min order and I don`t care for that.. thanks   Harold W4PQW

```
From -9704309783721072822
X-Google-Thread: fc2a5,b2461839f139fd6d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!
attbi_s21.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <3e143b92-6e3e-4872-b021-03f0cf26237b@26g2000hsk.googlegroups.com>
Subject: Re: Wanted, Diodes
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <R95qk.302731$yE1.224862@attbi_s21>
```

NNTP-Posting-Host: 12.219.130.17
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1219026673 12.219.130.17 (Mon, 18 Aug 2008 02:31:13 GMT)
NNTP-Posting-Date: Mon, 18 Aug 2008 02:31:13 GMT
Organization: AT&T ASP.att.net
Date: Mon, 18 Aug 2008 02:31:13 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:468

"mrhaney" <w4pqw@cox.net> wrote in message
news:3e143b92-6e3e-4872-b021-03f0cf26237b@26g2000hsk.googlegroups.com...

>I am looking for a few (10) diodes 1N270...It is a germanium and used
> in Double Balanced mixers in SSB generation..Most suppliers have a $25
> to $50 min order and I don`t care for that.. thanks   Harold W4PQW

Hi Harold. I can supply your needs, but for info, I have never. in a lot of years, called on MiniCircuits Labs (MO) for a small order and not have them waive the minimum order charge if needed. VERY nice folks to work with and they make better balanced mixers than you will. They have some black magic in their ferrite department.

W4ZCB

From -1932035666548417394
X-Google-Thread: fc2a5,b2461839f139fd6d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe07.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <3e143b92-6e3e-4872-b021-03f0cf26237b@26g2000hsk.googlegroups.com>
Subject: Re: Wanted, Diodes
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5512
X-RFC2646: Format=Flowed; Original
Message-ID: <1s5qk.27505$1N1.17047@newsfe07.iad>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe07.iad 1219027837 72.209.25.33 (Mon, 18 Aug 2008 02:50:37 UTC)
NNTP-Posting-Date: Mon, 18 Aug 2008 02:50:37 UTC
Organization: Cox
Date: Sun, 17 Aug 2008 22:50:31 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:469

```
"mrhaney" <w4pqw@cox.net> wrote in message
news:3e143b92-6e3e-4872-b021-03f0cf26237b@26g2000hsk.googlegroups.com...
>I am looking for a few (10) diodes 1N270...It is a germanium and used
> in Double Balanced mixers in SSB generation..Most suppliers have a $25
> to $50 min order and I don`t care for that.. thanks   Harold W4PQW

Have you tried Dans Small Parts?  Are hot carrier diodes
an acceptable substitute for that application?

73

Pete






From -4815325501318760242
X-Google-Thread: fc2a5,a7e0fd62d5016fa6,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
59g2000hsb.googlegroups.com!not-for-mail
From: dcurtis3727@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Lykes standing wave bridge field strength indicator for sale
Date: Mon, 18 Aug 2008 06:56:54 -0700 (PDT)
Organization: http://groups.google.com
Lines: 3
Message-ID: <b7ffcf79-b485-486a-9028-08423ff14eba@59g2000hsb.googlegroups.com>
NNTP-Posting-Host: 76.186.253.216
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1219067814 1872 127.0.0.1 (18 Aug 2008 13:56:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 18 Aug 2008 13:56:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 59g2000hsb.googlegroups.com; posting-host=76.186.253.216;
     posting-account=eTuZmQkAAAALSH4sG1_iieTI2N1rz7nE
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727; InfoPath.2),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:470

Lykes standing wave bridge field strength indicator for sale

http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&rd=1&item=270266585675&ssPageName=STRK:MESE:IT&ih=017


From 2486397237757335585
X-Google-Thread: fc2a5,b2461839f139fd6d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
```

X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!25g2000hsx.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted, Diodes
Date: Mon, 18 Aug 2008 08:09:15 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <11b4dd69-5666-4a12-b084-ae37f2832b59@25g2000hsx.googlegroups.com>
References: <3e143b92-6e3e-4872-b021-03f0cf26237b@26g2000hsk.googlegroups.com>
NNTP-Posting-Host: 170.121.15.46
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1219072156 4738 127.0.0.1 (18 Aug 2008 15:09:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 18 Aug 2008 15:09:16 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 25g2000hsx.googlegroups.com; posting-host=170.121.15.46;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:471

On Aug 17, 9:12=A0pm, mrhaney <w4...@cox.net> wrote:

> I am looking for a few (10) diodes 1N270...It is a germanium and used
> in Double Balanced mixers in SSB generation..Most suppliers have a $25
> to $50 min order and I don`t care for that.. thanks =A0 Harold W4PQW

Are you trying to reproduce something from a 60's handbook? I remember them speccing 1N270's but that's because those were the parts people had in the junkboxes back then. There is nothing at all magic about germanium here. The silicon diodes will require slightly more drive voltage to switch but that's not a big deal as you always drive them way into saturation anyway.

NTE109 is the ECT/NTE number for a their medium-voltage germanium replacement, officially listed in the NTE sub book, and Mouser and maybe even your local radio/TV repairman would have some. Mouser has no minimum order.

You will have much better luck using 1N914's or 1N4148's or even better a real matched DBM from Minicircuits et al. "Experimental Methods in RF Design" has a lot of good scoop on mixers that goes way beyond anything in a 60's ARRL handbook.

Tim N3QE

From 6361041812742131759
X-Google-Thread: fc2a5,2532ffecb2410983

```
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe01.iad.POSTED!7564ea0f!not-for-mail
From: "Rich Klestinez" <replytogroup@noplace.cc>
Newsgroups: rec.radio.amateur.homebrew
References: <ad589f16-d23e-4888-9608-568484578d24@c65g2000hsa.googlegroups.com>
Subject: Re: 70 Page RF Products Catalog
Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <1cBqk.17$RV7.13@newsfe01.iad>
NNTP-Posting-Host: affhbhiokjgggedohbajleklemhdpjcc
X-Complaints-To: abuse@charter.net
X-Trace:
bcpcmoabmkbfloblelpgibjinfhnghafdkgcieemfmhhlnpdaffhbhiokjgggedohgaaajakflldcfgmlc
bjkiecbiapejkikpjholpiookcphodhjfdlmpdogledihlbgjklipccefckbgb
NNTP-Posting-Date: Tue, 19 Aug 2008 14:58:05 UTC
Date: Tue, 19 Aug 2008 09:56:14 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:2923

WOW the prices are really high.  Guess I'll stick with "Mouser.com".
Rich
Fort Worth TX

"Travis" <TravisCurrier@gmail.com> wrote in message
news:ad589f16-d23e-4888-9608-568484578d24@c65g2000hsa.googlegroups.com...
> AAA RF Products Latest Catalog is now available.
>
> Please Provide your mailing address to receive your copy at no charge.
>
> Hope you guys all have a great day and I will look forward to helping
> you on all your RF needs
>
>
> Travis Currier
> AAA RF Products
> Phone: 949-481-3154
> Email:sales@aaarfproducts.com
> Website: www.aaarfproducts.com
> Location: San Clemente, CA




From 4805616626605328373
X-Google-Thread: fc2a5,2532ffecb2410983
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news1.google.com!postnews.google.com!d1g2000hsg.googlegroups.com!not-for-
mail
From: Travis <TravisCurrier@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FREE: 70 Page RF Products Catalog
Date: Tue, 19 Aug 2008 10:03:51 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <94cf2ae8-33cb-4ed5-b7c7-eeed20a11a73@d1g2000hsg.googlegroups.com>
NNTP-Posting-Host: 72.54.251.178
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1219165431 17186 127.0.0.1 (19 Aug 2008 17:03:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 19 Aug 2008 17:03:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d1g2000hsg.googlegroups.com; posting-host=72.54.251.178;
     posting-account=DlP5YwoAAABdjm_DJzoZgY1pnXMYD7rO
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.1)
     Gecko/2008070208 Firefox/3.0.1,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:473

AAA RF Products Latest Catalog is now available.

Please Provide your mailing address to receive your copy at no charge.

Hope you guys all have a great day and I will look forward to helping
you on all your RF needs


Travis Currier
AAA RF Products
Phone: 949-481-3154
Email:sales@aaarfproducts.com
Website: www.aaarfproducts.com
Location: San Clemente, CA


From 4077943896117093126
X-Google-Thread: fc2a5,2532ffecb2410983
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-
in-01.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-
nntp-08.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <94cf2ae8-33cb-4ed5-b7c7-eeed20a11a73@d1g2000hsg.googlegroups.com>
Subject: Re: 70 Page RF Products Catalog
Lines: 9
X-Priority: 3
```

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <4REqk.28921$1p1.14361@en-nntp-08.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Tue, 19 Aug 2008 12:06:37 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:474

"Travis" <TravisCurrier@gmail.com> wrote in message
news:94cf2ae8-33cb-4ed5-b7c7-eeed20a11a73@d1g2000hsg.googlegroups.com...
> Hope you guys all have a great day and I will look forward to helping
> you on all your RF needs

We've already blacklisted you at our company as a vendor to avoid, given your spamming tactics.

From 4447200334445209102
X-Google-Thread: fc2a5,b2461839f139fd6d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b1g2000hsg.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted, Diodes
Date: Tue, 19 Aug 2008 15:13:08 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <9ea1890a-d059-4d95-b987-31e5520c2188@b1g2000hsg.googlegroups.com>
References: <3e143b92-6e3e-4872-b021-03f0cf26237b@26g2000hsk.googlegroups.com>
NNTP-Posting-Host: 76.226.143.56
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1219183988 11028 127.0.0.1 (19 Aug 2008 22:13:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 19 Aug 2008 22:13:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b1g2000hsg.googlegroups.com; posting-host=76.226.143.56;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.16)
     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2926

On Aug 17, 9:12 pm, mrhaney <w4...@cox.net> wrote:

```
> I am looking for a few (10) diodes 1N270...It is a germanium and used
> in Double Balanced mixers in SSB generation..Most suppliers have a $25
> to $50 min order and I don`t care for that.. thanks   Harold W4PQW

Hey Harold:

Try your luck with this guy:

http://www.angelfire.com/electronic2/index1/index.html

takes paypal has tonnes of them in stock and only charges

$3.95 for shipping and handling for an order like yours

The shipping cost more than the parts but there's no

minimum order.

73 OM

N8ZU


From 7742735856378837433
X-Google-Thread: fc2a5,2532ffecb2410983
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews5.bellsouth.net.POSTED!ef55a73e!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 70 Page RF Products Catalog
References: <94cf2ae8-33cb-4ed5-b7c7-eeed20a11a73@d1g2000hsg.googlegroups.com>
<4REqk.28921$1p1.14361@en-nntp-08.dc1.easynews.com>
In-Reply-To: <4REqk.28921$1p1.14361@en-nntp-08.dc1.easynews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 11
Message-ID: <AsJqk.12643$XT1.11460@bignews5.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcbojlokkilfbkdkmlckobbbcmckokoagpklcj
cpdaggghnfnikanidfaggkeaggfnfedkplkmhbobemncoboobgpdbaajpoalndnahpbbhdpjpghcno
NNTP-Posting-Date: Tue, 19 Aug 2008 20:21:52 EDT
Organization: BellSouth Internet Group
Date: Tue, 19 Aug 2008 20:25:00 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2928

Joel Koltner wrote:
```

```
> "Travis" <TravisCurrier@gmail.com> wrote in message
> news:94cf2ae8-33cb-4ed5-b7c7-eeed20a11a73@d1g2000hsg.googlegroups.com...
>> Hope you guys all have a great day and I will look forward to helping
>> you on all your RF needs
>
> We've already blacklisted you at our company as a vendor to avoid, given your
> spamming tactics.
>
>
"aaarfproducts.com"  Sounds like a "dog" to me.



From 333967139065091556
X-Google-Thread: fc2a5,c81e066aa8e0848f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!x16g2000prn.googlegroups.com!not-for-
mail
From: Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sending power into rig unused for 30 years : Precautions ?
Date: Wed, 20 Aug 2008 02:02:36 -0700 (PDT)
Organization: http://groups.google.com
Lines: 30
Message-ID: <8c028325-e508-4db6-a2d3-7d7bd39d0727@x16g2000prn.googlegroups.com>
References: <nrkca49jtg6kp1rtqqahijcatd2mi23vvh@4ax.com> <g67in5-
gsc.ln1@radagast.org>
     <958d098b-e530-4a91-bc9d-a89209825073@u6g2000prc.googlegroups.com>
     <K5r4rF.4o0@dk3uz.ampr.org> <826af4ef-e163-4055-8eab-
f1dd572ac6d5@w39g2000prb.googlegroups.com>
     <K5vD1C.2vw@dk3uz.ampr.org>
NNTP-Posting-Host: 218.215.128.218
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1219222956 18374 127.0.0.1 (20 Aug 2008 09:02:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 20 Aug 2008 09:02:36 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x16g2000prn.googlegroups.com; posting-host=218.215.128.218;
     posting-account=LRLqpgkAAACt8OsWZnclc0j8ufDGwSA0
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.16)
     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2929

On Aug 20, 8:27 am, ehr...@dk3uz.ampr.org (Edmund H. Ramm) wrote:
> In <826af4ef-e163-4055-8eab-f1dd572ac...@w39g2000prb.googlegroups.com> Andrew
VK3BFA <vk3...@hotmail.com> writes:
>
>
>    There will only be negligible inrush current limiting. For that you'll
> need an NTC resistor like an Epcos NTC22. All you get from a light bulb
```

> is a voltage reduction -mains voltage minus the voltage drop across the bulb- but only AFTER the inrush current you intended to prevent has already flown.
>
> A light bulb in series with an inrush current limiter might be suitable for smoke testing equipment after prolonged disuse, though.
>
>

Yes. Whats the DV/DT of the positor versus a light bulb? - I got no idea.....
The light bulb method works - its quick and dirty, and so far I have never blown an electrolytic capacitor using this method. Its also VERY useful in firing up SMPS devices - it does current limit quick enough if theres a gross fault to prevent damage.

But, each to his own. Of more concern would be corrosion /freezing of pots/switches etc. And a 30 year old mains power cable? - mm - and what about checking the insulation resistance of the power transformer..

But it ain't the Space Shuttle - live dangerously...Just Do It....

Andrew VK3BFA.

From 5016217723475253839
X-Google-Thread: fc2a5,5c788313300a013a,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!d77g2000hsb.googlegroups.com!not-for-mail
From: CripeCentral@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Crystal Needed, 13 MHz
Date: Wed, 20 Aug 2008 06:22:21 -0700 (PDT)
Organization: http://groups.google.com
Lines: 4
Message-ID: <938ef20e-e803-437c-9bf6-0b09667c533d@d77g2000hsb.googlegroups.com>
NNTP-Posting-Host: 205.175.225.179
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1219238541 27190 127.0.0.1 (20 Aug 2008 13:22:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 20 Aug 2008 13:22:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d77g2000hsb.googlegroups.com; posting-host=205.175.225.179;
posting-account=pr2PzgoAAABdN6Yme190L9rSg0JJiI1t
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
InfoPath.1; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: 1.1 secproxy01.rockwellcollins.com:8080 (IWSS)

Xref: g2news2.google.com rec.radio.amateur.homebrew:2930

Hi all. I am looking for a 13.0 MHz crystal in an HC-49 package.
Anyone know of a vendor who might have them?

tnx es 73, Dave NM0S

From -2303855340716493124
X-Google-Thread: fc2a5,c81e066aa8e0848f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc05.POSTED!1bc6af47!not-for-mail
Reply-To: "JB" <nospam@goofball.net>
From: "JB" <nospam@goofball.net>
Newsgroups: rec.radio.amateur.homebrew
References: <nrkca49jtg6kp1rtqqahijcatd2mi23vvh@4ax.com>
<6PVpk.11343$XB4.7032@bignews9.bellsouth.net>
Subject: Re: Sending power into rig unused for 30 years : Precautions ?
Lines: 6
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <Ix4rk.322$p72.68@trnddc05>
Date: Thu, 21 Aug 2008 02:37:28 GMT
NNTP-Posting-Host: 71.160.195.119
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc05 1219286248 71.160.195.119 (Wed, 20 Aug 2008 22:37:28 EDT)
NNTP-Posting-Date: Wed, 20 Aug 2008 22:37:28 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2931
X-Original-Bytes: 1221

The light bulb has advantages. It will light up if there is a short. You can build a rig tester by just putting an outlet in parallel with the light switch, turn it on then plug in and turn on the Rig, then turn off the switch. The light should dim and never get brighter.

From -6275370709743695275
X-Google-Thread: fc2a5,5c788313300a013a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!w39g2000prb.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Crystal Needed, 13 MHz
Date: Wed, 20 Aug 2008 20:26:36 -0700 (PDT)

```
Organization: http://groups.google.com
Lines: 11
Message-ID: <d89b2dc3-d84b-43df-876b-41e14a43fb05@w39g2000prb.googlegroups.com>
References: <938ef20e-e803-437c-9bf6-0b09667c533d@d77g2000hsb.googlegroups.com>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1219289196 18277 127.0.0.1 (21 Aug 2008 03:26:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Aug 2008 03:26:36 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w39g2000prb.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.16)
     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2932
```

On Aug 20, 6:22 am, CripeCent...@gmail.com wrote:

> Hi all. I am looking for a 13.0 MHz crystal in an HC-49 package.
> Anyone know of a vendor who might have them?
>
> tnx es 73, Dave NM0S

Have lots of 13.000MHz in HC-50/U holders; same except 1mm pins
instead of .46mm wire leads. Want one or two?

Cheers,
Tom

```
From -5263694170274753647
X-Google-Thread: fc2a5,c81e066aa8e0848f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.aset.psu.edu!not-
for-mail
From: Michael Coslo <mjc5@psu.edu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sending power into rig unused for 30 years : Precautions ?
Date: Thu, 21 Aug 2008 11:31:04 -0400
Organization: Penn State University, Center for Academic Computing
Lines: 57
Message-ID: <g8k1no$r52$1@f04n12.cac.psu.edu>
References: <nrkca49jtg6kp1rtqqahijcatd2mi23vvh@4ax.com> <g67in5-
gsc.ln1@radagast.org>  <958d098b-e530-4a91-bc9d-
a89209825073@u6g2000prc.googlegroups.com>     <K5r4rF.4o0@dk3uz.ampr.org>
<826af4ef-e163-4055-8eab-f1dd572ac6d5@w39g2000prb.googlegroups.com>
<K5vD1C.2vw@dk3uz.ampr.org>
NNTP-Posting-Host: nat3.arl.psu.edu
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
```

Content-Transfer-Encoding: 7bit
X-Trace: f04n12.cac.psu.edu 1219332664 27810 128.118.40.78 (21 Aug 2008 15:31:04 GMT)
X-Complaints-To: usenet@f04n12.cac.psu.edu
NNTP-Posting-Date: Thu, 21 Aug 2008 15:31:04 +0000 (UTC)
User-Agent: Thunderbird 2.0.0.16 (Macintosh/20080707)
In-Reply-To: <K5vD1C.2vw@dk3uz.ampr.org>
Xref: g2news1.google.com rec.radio.amateur.homebrew:482

Edmund H. Ramm wrote:
> In <826af4ef-e163-4055-8eab-f1dd572ac6d5@w39g2000prb.googlegroups.com> Andrew VK3BFA <vk3bfa@hotmail.com> writes:
>
>> On Aug 18, 1:38 am, ehr...@dk3uz.ampr.org (Edmund H. Ramm) wrote:
>>> In <958d098b-e530-4a91-bc9d-a89209825...@u6g2000prc.googlegroups.com> Andrew VK3BFA <vk3...@hotmail.com> writes:
>>>
>
>>>   Are physics reversed down under? Up here in the old world a light
>>> bulb's filament (tungsten) resistance increases with temperature.
>>>
>
>> Er - yes, thats correct.So whats the problem?
>
>   There will only be negligible inrush current limiting. For that you'll
> need an NTC resistor like an Epcos NTC22. All you get from a light bulb
> is a voltage reduction -mains voltage minus the voltage drop across the
> bulb- but only AFTER the inrush current you intended to prevent has already
> flown.

That lightbulb heats up pretty quickly, especially if there is a short in the radio.

Just as a comparison:

a 250 watt bulb has a cold resistance of around 3 Ohms.

A 60 watt bulb, 18 Ohms

A 40 Watt bulb, 25 Ohms

I don't have a 25 Watt bulb handy, so I'm not sure of it's cold resistance. But the other bulbs in that neighborhood are at around 14 times the resistance hot vs cold, I'll assume it is around 60 ohms.

Sorry for the math here, but R = V squared/P

That would equal around 58 Ohms hot resistance for the 250 watt bulb

240 Ohms for the 60 watt bulb

360 Ohms for the 40 watt bulb.

830 Ohms for a 25 watt bulb

I usually use a 25 watt bulb, so discounting any inductive effects, I'll
be looking at a maximum start current of 240 watts if the radio is a
dead short, and that for only a very short period of time.

>   A light bulb in series with an inrush current limiter might be suitable
> for smoke testing equipment after prolonged disuse, though.

There isn't anything wrong with that approach, but it is probably overkill.

- 73 de Mike N3LI -

```
From 8069987804467276766
X-Google-Thread: fc2a5,c81e066aa8e0848f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!m45g2000hsb.googlegroups.com!not-for-
mail
From: "pfjw@aol.com" <pfjw@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sending power into rig unused for 30 years : Precautions ?
Date: Thu, 21 Aug 2008 12:06:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 84
Message-ID: <8bc30cfa-d781-4575-bcd7-6db89615a8f3@m45g2000hsb.googlegroups.com>
References: <nrkca49jtg6kp1rtqqahijcatd2mi23vvh@4ax.com>
NNTP-Posting-Host: 64.47.47.2
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1219345581 1604 127.0.0.1 (21 Aug 2008 19:06:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Aug 2008 19:06:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m45g2000hsb.googlegroups.com; posting-host=64.47.47.2;
     posting-account=tQE80AoAAACYibCqNWmwmvQ2q1XctZSS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2934
```

On Aug 16, 1:04=A0am, pdlem...@earthlink.net wrote:
> Now retired I'm trying to become active again.
> My TS-520S has not been on for 30 years.
> I don't have a variactor (variable transformer).
> At the TARC advice was to put a lightbulb in series
> to take the surge. =A0 Should I use a high resistance
> (low wattage) bulb or vice versa ?

> Would this be as good as a simple =A0L-C network ?
> Somebody said just plug it in. Are there any other
> ideas ?
> Thanks for your kind assistance.
> Dave WB3DWE =A0Temple, TX =A0pdlem...@earthlink.net

A couple of disclaimers first:

a) I know diddly/squat about Ham equipment. I am not a Ham.
b) I have been noodling about with vintage equipment, tube & solid-state for now over 30 years, so I am familiar with the species. What I write below is a generic approach to (re)starting vintage equipment after some years at idle.

So:

As I understand, the Kenwood is a tube-based unit, however it has a solid-state rectifier and is mostly solid-state in general. What this means is that there is some validity to bringing up the voltage slowly using a Variac as the caps will see a gradually increasing voltage - unlike what they would see from a tube rectifier which does not pass current until about 70V or so.

That it is from the transistor era, at least in part, suggests that the filter caps may be of sufficiently recent manufacture as to be likely to be good - the operative word here is *LIKELY*, not *certainly*. Kenwood was also not know to use cheap-junk caps in their equipment.

HOWEVER: A variac is really no better than a dim-bulb tester unless it is equipped with a current meter (amps or watts) that will read the actual current draw of the unit. I have been known to RANT on this subject at length - but I will spare this group and merely state that UNLESS you have the means to measure actual current drawn by the unit and at a sufficiently fine degree as to give you useful data, don't waste your time with a Variac. It gives you a false sense of security.

IF you have the means to measure current - either with your VOM in series or with a poor-man's ammeter (measure voltage drop across a 1-ohm resistor, for example), this technique is very useful. Raise the voltage s-l-o-w-l-y, watching the meter all the time. It will jump up (typically) then slide down as the caps charge. Slowly-slowly-nicely-nicely until you reach operating voltage over 4-5 minutes or so. And KEEP WATCHING!

If the caps start to fail at full B+, you will see that meter creep up. If they go anything beyond about 80% (SWAG guess - more below) of the nameplate rating of the unit, you have real problems.

Now, here is where I cannot comment beyond the generic - I have no idea what the quiescent vs. active current draw is with the Kenwood. THIS IS IMPORTANT. As you will not be transmitting or whatever, you should be operating at/near the quiescent current. This may be a very small percentage of the full nameplate rating - my guess is that this is so. You will need to know what that is. If you are operating even 5% beyond the "proper" quiescent current, that will be expressed as heat somewhere - and eventually *POOF* at some unobtanium or expensive part.

You get the point. The idea is to bring power to the beast slowly so that failed caps or similar may be discovered before any actual damage is done. For this to work you need a means to determine whether the unit is taking excess current - and you need to be able to measure this in fine-enough increments to be worthwhile. Otherwise, you are wasting your time as a small problem or series of small problems will be invisible to crude means.

I keep this unit for these sorts of tests:

http://www.oaktreeent.com/web_photos/test_gear/Heathkit_IP-5220_web.jpg

It is an metered Iso-Variac, overkill for once-in-a-while needs, but I use it constantly.

Peter Wieck
Melrose Park, PA

```
From 5677943415549572222
X-Google-Thread: fc2a5,c81e066aa8e0848f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p31g2000prf.googlegroups.com!not-for-
mail
From: Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sending power into rig unused for 30 years : Precautions ?
Date: Thu, 21 Aug 2008 15:43:36 -0700 (PDT)
Organization: http://groups.google.com
Lines: 97
Message-ID: <3c8e0614-5559-40cd-a3f8-4b9c19190d58@p31g2000prf.googlegroups.com>
References: <nrkca49jtg6kp1rtqqahijcatd2mi23vvh@4ax.com> <8bc30cfa-d781-4575-
bcd7-6db89615a8f3@m45g2000hsb.googlegroups.com>
NNTP-Posting-Host: 218.215.128.218
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1219358617 10461 127.0.0.1 (21 Aug 2008 22:43:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Aug 2008 22:43:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p31g2000prf.googlegroups.com; posting-host=218.215.128.218;
     posting-account=LRLqpgkAAACt8OsWZnclc0j8ufDGwSA0
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.16)
```

```
     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2935

On Aug 22, 5:06 am, "p...@aol.com" <p...@aol.com> wrote:
> On Aug 16, 1:04 am, pdlem...@earthlink.net wrote:
>
> > Now retired I'm trying to become active again.
> > My TS-520S has not been on for 30 years.
> > I don't have a variactor ( variable transformer ).
> > At the TARC advice was to put a lightbulb in series
> > to take the surge.   Should I use a high resistance
> > ( low wattage ) bulb or vice versa ?
> > Would this be as good as a simple  L-C network ?
> > Somebody said just plug it in. Are there any other
> > ideas ?
> > Thanks for your kind assistance.
> > Dave WB3DWE  Temple, TX  pdlem...@earthlink.net
>
> A couple of disclaimers first:
>
> a) I know diddly/squat about Ham equipment. I am not a Ham.
> b) I have been noodling about with vintage equipment, tube & solid-
> state for now over 30 years, so I am familiar with the species. What I
> write below is a generic approach to (re)starting vintage equipment
> after some years at idle.
>
> So:
>
> As I understand, the Kenwood is a tube-based unit, however it has a
> solid-state rectifier and is mostly solid-state in general. What this
> means is that there is some validity to bringing up the voltage slowly
> using a Variac as the caps will see a gradually increasing voltage -
> unlike what they would see from a tube rectifier which does not pass
> current until about 70V or so.
>
> That it is from the transistor era, at least in part, suggests that
> the filter caps may be of sufficiently recent manufacture as to be
> likely to be good - the operative word here is *LIKELY*, not
> *certainly*. Kenwood was also not know to use cheap-junk caps in their
> equipment.
>
> HOWEVER: A variac is really no better than a dim-bulb tester unless it
> is equipped with a current meter (amps or watts) that will read the
> actual current draw of the unit. I have been known to RANT on this
> subject at length - but I will spare this group and merely state that
> UNLESS you have the means to measure actual current drawn by the unit
> and at a sufficiently fine degree as to give you useful data, don't
> waste your time with a Variac. It gives you a false sense of
> security.
>
> IF you have the means to measure current - either with your VOM in
> series or with a poor-man's ammeter (measure voltage drop across a 1-
> ohm resistor, for example), this technique is very useful. Raise the
```

> voltage s-l-o-w-l-y, watching the meter all the time. It will jump up (typically) then slide down as the caps charge. Slowly-slowly-nicely-nicely until you reach operating voltage over 4-5 minutes or so. And KEEP WATCHING!
>
> If the caps start to fail at full B+, you will see that meter creep up. If they go anything beyond about 80% (SWAG guess - more below) of the nameplate rating of the unit, you have real problems.
>
> Now, here is where I cannot comment beyond the generic - I have no idea what the quiescent vs. active current draw is with the Kenwood. THIS IS IMPORTANT. As you will not be transmitting or whatever, you should be operating at/near the quiescent current. This may be a very small percentage of the full nameplate rating - my guess is that this is so. You will need to know what that is. If you are operating even 5% beyond the "proper" quiescent current, that will be expressed as heat somewhere - and eventually *POOF* at some unobtanium or expensive part.
>
> You get the point. The idea is to bring power to the beast slowly so that failed caps or similar may be discovered before any actual damage is done. For this to work you need a means to determine whether the unit is taking excess current - and you need to be able to measure this in fine-enough increments to be worthwhile. Otherwise, you are wasting your time as a small problem or series of small problems will be invisible to crude means.
>
> I keep this unit for these sorts of tests:
>
> http://www.oaktreeent.com/web_photos/test_gear/Heathkit_IP-5220_web.jpg
>
> It is an metered Iso-Variac, overkill for once-in-a-while needs, but I use it constantly.
>
> Peter Wieck
> Melrose Park, PA

Peter - lots of good stuff in there, but perhaps overkill..like the ac power supply with its own meters - would be simple to use for the methods you describe.

The Kenwood is a "Valve hybrid" - there are 3 tubes in there, a driver and 2 output tubes in //. Filamnets are switchable on/off. Idle current is.....very low, never measured it, had no need to. The light bulb method does work sufficiently well for the purpose intended.

Andrew VK3BFA.

From 4292902199211719125
X-Google-Thread: fc2a5,c81e066aa8e0848f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news1.google.com!news1.google.com!news.glorb.com!news.aset.psu.edu!not-for-mail
From: Michael Coslo <mjc5@psu.edu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sending power into rig unused for 30 years : Precautions ?
Date: Fri, 22 Aug 2008 11:42:45 -0400
Organization: Penn State University, Center for Academic Computing
Lines: 24
Message-ID: <g8mmpl$6ca$1@f04n12.cac.psu.edu>
References: <nrkca49jtg6kp1rtqqahijcatd2mi23vvh@4ax.com> <8bc30cfa-d781-4575-bcd7-6db89615a8f3@m45g2000hsb.googlegroups.com> <3c8e0614-5559-40cd-a3f8-4b9c19190d58@p31g2000prf.googlegroups.com>
NNTP-Posting-Host: nat3.arl.psu.edu
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: f04n12.cac.psu.edu 1219419765 6538 128.118.40.78 (22 Aug 2008 15:42:45 GMT)
X-Complaints-To: usenet@f04n12.cac.psu.edu
NNTP-Posting-Date: Fri, 22 Aug 2008 15:42:45 +0000 (UTC)
User-Agent: Thunderbird 2.0.0.16 (Macintosh/20080707)
In-Reply-To: <3c8e0614-5559-40cd-a3f8-4b9c19190d58@p31g2000prf.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:485

Andrew VK3BFA wrote:
> On Aug 22, 5:06 am, "p...@aol.com" <p...@aol.com> wrote:

> Peter - lots of good stuff in there, but perhaps overkill..like the ac
> power supply with its own meters - would be simple to use for the
> methods you describe.
>
> The Kenwood is a "Valve hybrid" - there are 3 tubes in there, a driver
> and 2 output tubes in //. Filamnets are switchable on/off. Idle
> current is.....very low, never measured it, had no need to. The light
> bulb method does work sufficiently well for the purpose intended.

I think I missed just what type of rig it was. If it a Kenwood TS-830, the owner has to immediately ship it to me, as those units had a particular problem that ony I can fix.

I tested out one of those, and fell in love with it. Good sound, Hot receiver, good looking rig, The big issue with those was the band changing switch. Not a big deal.

Heck, I'll even pay shipping ;^)

- 73 de Mike N3LI -

From -6636256224288420251
X-Google-Thread: fc2a5,c81e066aa8e0848f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news.aset.psu.edu!not-for-mail
From: Michael Coslo <mjc5@psu.edu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sending power into rig unused for 30 years : Precautions ?
Date: Fri, 22 Aug 2008 11:47:28 -0400
Organization: Penn State University, Center for Academic Computing
Lines: 10
Message-ID: <g8mn2g$fik$1@f04n12.cac.psu.edu>
References: <nrkca49jtg6kp1rtqqahijcatd2mi23vvh@4ax.com> <8bc30cfa-d781-4575-bcd7-6db89615a8f3@m45g2000hsb.googlegroups.com> <3c8e0614-5559-40cd-a3f8-4b9c19190d58@p31g2000prf.googlegroups.com> <g8mmpl$6ca$1@f04n12.cac.psu.edu>
NNTP-Posting-Host: nat3.arl.psu.edu
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: f04n12.cac.psu.edu 1219420048 15956 128.118.40.78 (22 Aug 2008 15:47:28 GMT)
X-Complaints-To: usenet@f04n12.cac.psu.edu
NNTP-Posting-Date: Fri, 22 Aug 2008 15:47:28 +0000 (UTC)
User-Agent: Thunderbird 2.0.0.16 (Macintosh/20080707)
In-Reply-To: <g8mmpl$6ca$1@f04n12.cac.psu.edu>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2937

Michael Coslo wrote:

> I think I missed just what type of rig it was. If it a Kenwood TS-830,
> the owner has to immediately ship it to me, as those units had a
> particular problem that ony I can fix.

What a dummy I is. That's a TS-530, not 830

- 73 de Mike N3LI -

From -6577581856838880098
X-Google-Thread: fc2a5,b32887a8b730281a,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Amateur Radio and Software Defined Radios
Date: 22 Aug 2008 16:40:46 GMT
Lines: 12
Message-ID: <slrngatr0e.2m9q.bit-bucket@shell.config.com>
Reply-To: If you must, <Reply_to@my.sig.adr>
X-Trace: individual.net UuxvQ9iPih5nboZVTflLpQHyNNj86+Giudd+7wEvzM/uXnHn+f
Cancel-Lock: sha1:DAtf2idUe1p9Gix2gmLYbbkgYGQ=
User-Agent: slrn/0.9.8.1 (FreeBSD)

```
Xref: g2news1.google.com rec.radio.amateur.homebrew:487


     http://electronicdesign.com/Articles/Index.cfm?ArticleID=19439

OT, because a homebrew project is covered on page 3 - subtitled:

     AN IMPORTANT HAM SDR EFFORT

Jonesy
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    *** Killfiling google posts: <http://jonz.net/ng.htm>


From 7149768042814522915
X-Google-Thread: fc2a5,c81e066aa8e0848f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!r66g2000hsg.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sending power into rig unused for 30 years : Precautions ?
Date: Fri, 22 Aug 2008 11:52:23 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <2b9b7f90-61d7-42df-a2d1-459a7c6140cc@r66g2000hsg.googlegroups.com>
References: <nrkca49jtg6kp1rtqqahijcatd2mi23vvh@4ax.com> <g67in5-
gsc.ln1@radagast.org>
     <958d098b-e530-4a91-bc9d-a89209825073@u6g2000prc.googlegroups.com>
     <seKdnVBGzaB9uDXVnZ2dnUVZ8tbinZ2d@pipex.net> <e7a6c9ad-640b-4c31-aa8a-
ead3b3ef3b18@z11g2000prl.googlegroups.com>
NNTP-Posting-Host: 170.121.15.44
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1219431143 24025 127.0.0.1 (22 Aug 2008 18:52:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Aug 2008 18:52:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r66g2000hsg.googlegroups.com; posting-host=170.121.15.44;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2939

On Aug 17, 6:44=A0pm, Andrew VK3BFA <vk3...@hotmail.com> wrote:
> and its a pain in the
> arse to set up, connect meters, gingerly spend time slowly
> incrementing the voltage - life is too short to stuff around......
```

>
> Hey, you got time to do Rocket Science, thats fine. Each to his own.

I think that turning it on, blowing up the capacitors that are gonna blow up, and then replacing the ones that actually did blow up is a fine procedure, myself.

There is a certain pussyfoot attitude about either cranking up the variac gingerly, or simply recapping the whole radio, that is not really appropriate to somebody (me!) who really wants to see smoke coming out at least once in a while.

Only gotcha, if the bad capacitor takes out a transformer, that's a PITA. Not that I've never rewound bad transformers or rewound them for a project, but having to rewind a transformer just because I was impatient is a little embarassing.

Tim.

From -4592868945584589162
X-Google-Thread: fc2a5,b32887a8b730281a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-nntp-01.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <slrngatr0e.2m9q.bit-bucket@shell.config.com>
Subject: Re: Amateur Radio and Software Defined Radios
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
Message-ID: <x4Grk.51957$C65.7168@en-nntp-01.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Fri, 22 Aug 2008 14:20:27 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:489

"Allodoxaphobia" <bit-bucket@config.com> wrote in message news:slrngatr0e.2m9q.bit-bucket@shell.config.com...
> OT, because a homebrew project is covered on page 3 - subtitled:
> AN IMPORTANT HAM SDR EFFORT

It seems almost criminal that GNURadio / USRP isn't mentioned. :-(It's the main ham radio SDR that's being used for VHF/UHF work with correspondingly higher bandwidths. (Whereas HPSDR/Flex-5000/etc. are aimed more at super-weak signals -- more dynamic range -- with correspondingly narrower bandwidths.)

From -4619677343992395678
X-Google-Thread: fc2a5,78605570d49b54d8,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news2.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-media.com!newsfe07.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Need some N750 caps..
Lines: 6
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <fkGrk.2278$_s1.1852@newsfe07.iad>
NNTP-Posting-Host: 72.192.52.79
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe07.iad 1219441035 72.192.52.79 (Fri, 22 Aug 2008 21:37:15 UTC)
NNTP-Posting-Date: Fri, 22 Aug 2008 21:37:15 UTC
Organization: Cox
Date: Fri, 22 Aug 2008 17:36:51 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:490

If anyone has some in 5 to 15 pF values, I like to buy
several. Prefer the old ceramic dogbones, if possible.

Pete

From 2625067709270673082
X-Google-Thread: fc2a5,78605570d49b54d8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc04.POSTED!8c40745b!not-for-mail
Reply-To: "Dale Parfitt" <parinc1@verizon.net>
From: "Dale Parfitt" <parinc1@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <fkGrk.2278$_s1.1852@newsfe07.iad>
Subject: Re: Need some N750 caps..
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal

```
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Response
Message-ID: <GKJrk.495$Ro1.136@trnddc04>
Date: Sat, 23 Aug 2008 01:30:14 GMT
NNTP-Posting-Host: 96.235.87.58
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc04 1219455014 96.235.87.58 (Fri, 22 Aug 2008 21:30:14 EDT)
NNTP-Posting-Date: Fri, 22 Aug 2008 21:30:14 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2942
X-Original-Bytes: 1310


"Tio Pedro" <radioconnection@cox.net> wrote in message
news:fkGrk.2278$_s1.1852@newsfe07.iad...
> If anyone has some in 5 to 15 pF values, I like to buy
> several. Prefer the old ceramic dogbones, if possible.
>
> Pete
>
These are getting harder to come by. I bought some for my Hallicrafters
Cyclone from Surplus Sales of Nebraska (The "jewelry" store)- but they are
not cheap.

Dale W4OP




From -5410868705744562146
X-Google-Thread: fc2a5,78605570d49b54d8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-
media.com!post01.iad.highwinds-media.com!newsfe01.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <fkGrk.2278$_s1.1852@newsfe07.iad> <GKJrk.495$Ro1.136@trnddc04>
Subject: Re: Need some N750 caps..
Lines: 33
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <dPJrk.2902$Jk1.2183@newsfe01.iad>
NNTP-Posting-Host: 72.192.52.79
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe01.iad 1219455305 72.192.52.79 (Sat, 23 Aug 2008 01:35:05 UTC)
NNTP-Posting-Date: Sat, 23 Aug 2008 01:35:05 UTC
Organization: Cox
Date: Fri, 22 Aug 2008 21:35:05 -0400
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:492

"Dale Parfitt" <parinc1@verizon.net> wrote in message
news:GKJrk.495$Ro1.136@trnddc04...
>
> "Tio Pedro" <radioconnection@cox.net> wrote in message
> news:fkGrk.2278$_s1.1852@newsfe07.iad...
>> If anyone has some in 5 to 15 pF values, I like to buy
>> several. Prefer the old ceramic dogbones, if possible.
>>
>> Pete
>>
> These are getting harder to come by. I bought some for my Hallicrafters
> Cyclone from Surplus Sales of Nebraska (The "jewelry" store)- but they are
> not cheap.
>
> Dale W4OP

Problem is I need a small handful to fine trim the drift on
a set of HBR receiver LO coils. I refuse to pay those prices
for what should be 25 cent parts. Yeah, I know, price of
doing business, only game in town... etc... But, there must
be some lanquishing in junkbox looking for a good home
for a fair price. I'd hate to blow 20 bucks on a bunch of
cheap parts that I may or may not need.

I suspect N750 ceramic discs would work just as well in this
application, and I'll try them if I have too. At least they
are cheap and available.

Pete
>

From -4888846360994100714
X-Google-Thread: fc2a5,c81e066aa8e0848f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!f36g2000hsa.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sending power into rig unused for 30 years : Precautions ?
Date: Sat, 23 Aug 2008 02:23:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <e2e9de01-f0e8-40d9-8d4d-260ef3d046d7@f36g2000hsa.googlegroups.com>
References: <nrkca49jtg6kp1rtqqahijcatd2mi23vvh@4ax.com> <g67in5-gsc.ln1@radagast.org>
<958d098b-e530-4a91-bc9d-a89209825073@u6g2000prc.googlegroups.com>

     <seKdnVBGzaB9uDXVnZ2dnUVZ8tbinZ2d@pipex.net> <e7a6c9ad-640b-4c31-aa8a-
ead3b3ef3b18@z11g2000prl.googlegroups.com>
     <2b9b7f90-61d7-42df-a2d1-459a7c6140cc@r66g2000hsg.googlegroups.com>
NNTP-Posting-Host: 76.226.143.56
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1219483393 14839 127.0.0.1 (23 Aug 2008 09:23:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 23 Aug 2008 09:23:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f36g2000hsa.googlegroups.com; posting-host=76.226.143.56;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:493

On Aug 22, 2:52 pm, Tim Shoppa <sho...@trailing-edge.com> wrote:
>
> I think that turning it on, blowing up the capacitors that are gonna
> blow up,
> who really wants to see smoke
> coming out at least once in a while.

You been watching to much myth busters?

> Only gotcha, if the bad capacitor takes out a transformer, that's a
> PITA. Not that I've never rewound bad transformers or rewound them for
> a project, but having to rewind a transformer just because I was
> impatient is a little embarassing.

 I think you going to has to jump the fuse to get away with that?
Nothing I hate more than shorted parts especially a shorted fuse.

73 OM
n8zu

From 8188273265967100954
X-Google-Thread: fc2a5,c81e066aa8e0848f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-FeedAbuse: http://nntpfeed.proxad.net/abuse.pl feeded by 88.191.90.20
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
nntpfeed.proxad.net!news.netfinity.fr!club-internet.fr!feedme-small.clubint.net!
news.astraweb.com!border1.a.newsrouter.astraweb.com!not-for-mail
Message-ID: <EZW1+KAVn9rIFwzE@pentode1.demon.co.uk>
Date: Sat, 23 Aug 2008 10:35:17 +0100
From: JC Morrice <John@pentode.demon.co.uk>
Reply-To: JC Morrice <john@pentode.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sending power into rig unused for 30 years : Precautions ?

References: <nrkca49jtg6kp1rtqqahijcatd2mi23vvh@4ax.com>
<8bc30cfa-d781-4575-bcd7-6db89615a8f3@m45g2000hsb.googlegroups.com>
Organization: None
MIME-Version: 1.0
X-Newsreader: Turnpike Integrated Version 5.02 U <oTgWrCBEtsOIBdvfKCw+dPY$Rl>
Lines: 52
NNTP-Posting-Host: fc8e492f.news.astraweb.com
X-Trace: DXC=QW\^^:=RdgQ]oQN>6;?:kYL?0kYOcDh@ZcKbERRL;ZcW:lVTe[=^ZJU1cR0GfcSBl[CS?^IoYKS_UCYoCCZm`@YQ
Xref: g2news2.google.com rec.radio.amateur.homebrew:2945

In article <8bc30cfa-d781-4575-bcd7-6db89615a8f3@m45g2000hsb.googlegroups.com>, pfjw@aol.com <pfjw@aol.com> writes

>A couple of disclaimers first:
>
>a) I know diddly/squat about Ham equipment. I am not a Ham.
>b) I have been noodling about with vintage equipment, tube & solid-state for now over 30 years, so I am familiar with the species. What I write below is a generic approach to (re)starting vintage equipment after some years at idle.

...snip...
sounds good

Just to add. In the days when boat anchor stuff was the normal gear, when items had been on the shelf in storage for long periods, the electrolytics were not so good then as now :)

Switch on procedure from storage was:

1. Expect the odd "phut and horrible smell." It *will* happen at some time.

2. Switch on for a few seconds and then off - allows the electrolytic barrier in the capacitor to start to re-form - the number of seconds for certain equipment was specified - otherwise about 5 seconds for the first time.

3. Switch off for about 60 minutes.

4. Switch on for 10 secs and then off for 30 mins.

5 Switch on for 30 secs and then off for 30 mins.

6. On for 30 sec off for 10 mins.

7. On for 60 sec off for 5 mins.

8. And so on....

These were valuable equipments and the manufacturer normally laid down a procedure. The whole idea being to re-form the electrolytic capacitors and to give other problems time to cool down for inspection and detection/rectification.

The alternative was just to switch on and then stand back from the bench with your fingers in your ears and a handkerchief over your nose :D

John
--
JC Morrice
john@pentode.demon.co.uk

```
From -8491574937341797903
X-Google-Thread: fc2a5,c81e066aa8e0848f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v16g2000prc.googlegroups.com!not-for-
mail
From: Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sending power into rig unused for 30 years : Precautions ?
Date: Sat, 23 Aug 2008 03:05:42 -0700 (PDT)
Organization: http://groups.google.com
Lines: 30
Message-ID: <213d418a-a31a-4489-992b-eba7a2b0e499@v16g2000prc.googlegroups.com>
References: <nrkca49jtg6kp1rtqqahijcatd2mi23vvh@4ax.com> <8bc30cfa-d781-4575-
bcd7-6db89615a8f3@m45g2000hsb.googlegroups.com>
     <EZW1+KAVn9rIFwzE@pentode1.demon.co.uk>
NNTP-Posting-Host: 218.215.155.37
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1219485942 22724 127.0.0.1 (23 Aug 2008 10:05:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 23 Aug 2008 10:05:42 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v16g2000prc.googlegroups.com; posting-host=218.215.155.37;
     posting-account=LRLqpgkAAACt8OsWZnclc0j8ufDGwSA0
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.16)
     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2946
```

On Aug 23, 7:35 pm, JC Morrice <J...@pentode.demon.co.uk> wrote:
> In article <8bc30cfa-d781-4575-bcd7-6db89615a...@m45g2000hsb.googlegroup
>
>
>

And so, like all good "tinny and bullshit" sessions, we come back to the original question - if Dave hasn't wandered off, in boredom or disgust. And like all good amateur arguments, we have suggestions ranging from ludicrous to....ludicrous.

We have had - an engineered, high tech solution
A stuff it, just power it up solution
The KISS solution - use a light bulb in series
The do it slowly and painstakingly with a metered variac solution
Some reminiscences about the "old days"
Someone else offered to buy the radio, but got their models mixed up.
Answers from people who, well, really....dunno why....

And all valid, all correct - so, Dave - take your pick which one YOU use.......alternatively, there is a TS520/530/820/830 group on Yahoo. You could post your question there - they have heaps of people who lovingly use, restore these old radios - mind you, the answers will be as broad spectrum as here, and LOTS more off em hi hi.

Andrew VK3BFA.

```
From 8051125311378754043
X-Google-Thread: fc2a5,b2461839f139fd6d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!q5g2000prf.googlegroups.com!not-for-
mail
From: laura halliday <marsgal42@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted, Diodes
Date: Sat, 23 Aug 2008 12:39:06 -0700 (PDT)
Organization: http://groups.google.com
Lines: 12
Message-ID: <f05b699c-5585-4236-a994-060ee07b06c8@q5g2000prf.googlegroups.com>
References: <3e143b92-6e3e-4872-b021-03f0cf26237b@26g2000hsk.googlegroups.com>
NNTP-Posting-Host: 64.180.236.83
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1219520346 28462 127.0.0.1 (23 Aug 2008 19:39:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 23 Aug 2008 19:39:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q5g2000prf.googlegroups.com; posting-host=64.180.236.83;
     posting-account=QznKWwkAAABtWRT875LiEkR4XDuK_tqd
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; Intel Mac OS X 10_5_4; en-us)
     AppleWebKit/525.18 (KHTML, like Gecko) Version/3.1.2 Safari/
525.20.1,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:496
```

On Aug 17, 6:12=A0pm, mrhaney <w4...@cox.net> wrote:

> I am looking for a few (10) diodes 1N270...It is a germanium and used
> in Double Balanced mixers in SSB generation..Most suppliers have a $25
> to $50 min order and I don`t care for that.. thanks =A0 Harold W4PQW

So after all that, any hints on what the original project was? Even
in the 1970s people were speccing matched silicon diodes (e.g. 1N914)
or hot carrier diodes (e.g. 5082-2800) for mixers.

```
Laura Halliday VE7LDH     "Non sequitur. Your ACKS are
Grid: CN89mg                    uncoordinated."
ICBM: 49 16.05 N 122 56.92 W       - Nomad the Network Engineer
```

```
From 5535689527185693258
X-Google-Thread: fc2a5,79c4ba38a2055ae5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!j22g2000hsf.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 4-1000A VALVE/TUBE
Date: Sun, 24 Aug 2008 18:12:02 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <b7e5d55d-6404-40cd-87e1-55b8d32efd6a@j22g2000hsf.googlegroups.com>
References: <f6dad03b-6a63-4603-bdbe-9869f26f788b@k37g2000hsf.googlegroups.com>
     <c01e3b92-c153-4140-be4f-8d30fd51b998@w7g2000hsa.googlegroups.com>
NNTP-Posting-Host: 76.226.143.56
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1219626722 21836 127.0.0.1 (25 Aug 2008 01:12:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 25 Aug 2008 01:12:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j22g2000hsf.googlegroups.com; posting-host=76.226.143.56;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.16)
     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:497
```

On Aug 16, 10:52 pm, raypsi <RBorow...@gmail.com> wrote:
> > And does anybody know the cold resistance or the filament?
> > I haven't seen any inrush current limiting circuits for the 4-1k.
>
> > 73
>
> > n8zu
>
> I just put my home made amper on the filament. Actually a 2.80 amp
> amper.

> I couldn't find my 7805 I use for a constant current source. So I had
> the 5 ohm resistor in series with my 14 volt regulated supply. My 5
> ohm resistor is 40 ft of cat3 3 pair telephone wire for a total of 240
> ft of 24 AWG wire. I put that in series with the 4-1k filament and
> across 14.0 volt regulated supply it draws 2.80 amps.
> The voltage drop on the filament was 0.100 volts and a filament
> resistance at 0.100 volts is 0.0357 ohms. Funny because at 7.5VAC
> it's exactly 10 times that resistance.
> I can't afford peter dahl transformers. I has to use MOT's for the
> filament screen and plate supplies. I have to use 2 MOT's to get the
> power I need. This works out to my advantage because with 2 filaments
> in series it gives me 7.5VAC CT, but at a current that is only limited
> by the 14AWG wire they use for the winding. Two MOT's 14AWG wire would
> limit the inrush current to about 150 amps of instantaneous current at
> the peak voltage.
>
> 73
>
> n8zu

I almost forgot this thing draws more filament current at a lower
voltage
25 amps at 7.3 volts DC

From 3843903602319620530
X-Google-Thread: fc2a5,c81e066aa8e0848f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!s50g2000hsb.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sending power into rig unused for 30 years : Precautions ?
Date: Mon, 25 Aug 2008 05:57:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 34
Message-ID: <dca7cacc-c6dc-4123-b67a-c6249d39b04d@s50g2000hsb.googlegroups.com>
References: <nrkca49jtg6kp1rtqqahijcatd2mi23vvh@4ax.com> <g67in5-gsc.ln1@radagast.org>
<958d098b-e530-4a91-bc9d-a89209825073@u6g2000prc.googlegroups.com>
<seKdnVBGzaB9uDXVnZ2dnUVZ8tbinZ2d@pipex.net> <e7a6c9ad-640b-4c31-aa8a-ead3b3ef3b18@z11g2000prl.googlegroups.com>
<2b9b7f90-61d7-42df-a2d1-459a7c6140cc@r66g2000hsg.googlegroups.com>
<e2e9de01-f0e8-40d9-8d4d-260ef3d046d7@f36g2000hsa.googlegroups.com>
NNTP-Posting-Host: 170.121.15.46
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1219669066 22061 127.0.0.1 (25 Aug 2008 12:57:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 25 Aug 2008 12:57:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com

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Injection-Info: s50g2000hsb.googlegroups.com; posting-host=170.121.15.46;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:498
```

On Aug 23, 5:23=A0am, raypsi <RBorow...@gmail.com> wrote:
> On Aug 22, 2:52 pm, Tim Shoppa <sho...@trailing-edge.com> wrote:
>
>
>
> > I think that turning it on, blowing up the capacitors that are gonna
> > blow up,
> > who really wants to see smoke
> > coming out at least once in a while.
>
> You been watching to much myth busters?

Not really, but a former schoolmate has worked at a place titled
"Center for Non-Destructive Testing" and my first comment to him (like
15 years ago) was "Where's the fun in that?"

> > Only gotcha, if the bad capacitor takes out a transformer, that's a
> > PITA. Not that I've never rewound bad transformers or rewound them for
> > a project, but having to rewind a transformer just because I was
> > impatient is a little embarassing.
>
> =A0I think you going to has to jump the fuse to get away with that?
> Nothing I hate more than shorted parts especially a shorted fuse.

The fuse is there to help (not guarantee) stop things from catching on
fire and burning down your house.

It's not there to save components.

It is sized based on primary current, not the current capacity of any
individual secondary or the components hooked to any individual
secondary.

Tim N3QE

```
From -3973538938467775951
X-Google-Thread: fc2a5,b2461839f139fd6d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!z66g2000hsc.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted, Diodes
Date: Mon, 25 Aug 2008 06:14:20 -0700 (PDT)
```

```
Organization: http://groups.google.com
Lines: 27
Message-ID: <059007d4-db4f-4a13-a21e-7f04d65398f1@z66g2000hsc.googlegroups.com>
References: <3e143b92-6e3e-4872-b021-03f0cf26237b@26g2000hsk.googlegroups.com>
     <f05b699c-5585-4236-a994-060ee07b06c8@q5g2000prf.googlegroups.com>
NNTP-Posting-Host: 170.121.15.46
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1219670060 25228 127.0.0.1 (25 Aug 2008 13:14:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 25 Aug 2008 13:14:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z66g2000hsc.googlegroups.com; posting-host=170.121.15.46;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:499

On Aug 23, 3:39=A0pm, laura halliday <marsga...@hotmail.com> wrote:
> On Aug 17, 6:12=A0pm, mrhaney <w4...@cox.net> wrote:
>
> > I am looking for a few (10) diodes 1N270...It is a germanium and used
> > in Double Balanced mixers in SSB generation..Most suppliers have a $25
> > to $50 min order and I don`t care for that.. thanks =A0 Harold W4PQW
>
> So after all that, any hints on what the original project was? Even
> in the 1970s people were speccing matched silicon diodes (e.g. 1N914)
> or hot carrier diodes (e.g. 5082-2800) for mixers.

At least two volumes of "Single Side Band for the Radio Amateur" and
many ARRL handbooks from the 60's show 1N270's used in balanced
mixers.

It was a jellybean of the time, it's odd that someone would not
realize it and slavishly want to use it rather than something more
readily available (and performance-wise far superior) today. Probably
the same guys who insist on carbon-composition resistors everywhere
today too :-).

There are some things that appear in old construction articles that
are worth finding. For example, the BC-453/454/455's tuning capacitors
and drive mechanism are truly superb and I still keep my eyes open for
them today :-).

Tim.


From -7722923836779802487
X-Google-Thread: fc2a5,79c4ba38a2055ae5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
```

Path: g2news1.google.com!postnews.google.com!26g2000hsk.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 4-1000A VALVE/TUBE
Date: Mon, 25 Aug 2008 08:55:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <12967cf1-358b-4e19-a2cf-d1a586c504a4@26g2000hsk.googlegroups.com>
References: <f6dad03b-6a63-4603-bdbe-9869f26f788b@k37g2000hsf.googlegroups.com>
     <c01e3b92-c153-4140-be4f-8d30fd51b998@w7g2000hsa.googlegroups.com>
     <b7e5d55d-6404-40cd-87e1-55b8d32efd6a@j22g2000hsf.googlegroups.com>
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Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 25 Aug 2008 15:55:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 26g2000hsk.googlegroups.com; posting-host=170.121.15.35;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:500

On Aug 24, 9:12=A0pm, raypsi <RBorow...@gmail.com> wrote:
> I almost forgot this thing draws more filament current at a lower
> voltage
> 25 amps at 7.3 volts DC.

Filaments like lamps are not ohmic, but I don't think they should ever draw more current at lower voltage. That would mean "negative dynamic resistance".

Seems more likely there's some measurement difficulties. Getting good contact on the filament pins through thermal cycles is often an issue.

Tim N3QE

From -3808758390654015195
X-Google-Thread: fc2a5,f667259876c55cc,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe01.iad.POSTED!7564ea0f!not-for-mail
From: "KC0EH" <cvest@cox.net>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: WTB : LPAM Part 15 Transmitter BCB
Lines: 7

X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3350
X-RFC2646: Format=Flowed; Original
Message-ID: <n8Isk.8973$Jk1.5308@newsfe01.iad>
NNTP-Posting-Host: 68.103.68.182
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe01.iad 1219710611 68.103.68.182 (Tue, 26 Aug 2008 00:30:11 UTC)
NNTP-Posting-Date: Tue, 26 Aug 2008 00:30:11 UTC
Organization: Cox
Date: Mon, 25 Aug 2008 19:30:40 -0500
Xref: g2news1.google.com rec.antiques.radio+phono:5669
rec.radio.amateur.homebrew:501

I am looking to buy a synthesized low power AM BCB transmitter for around
the house . Homebrew ok. Please state brand , condition , price .

Thanks ,
Charlie , W5COV

From 5042469476216462676
X-Google-Thread: 10c2ee,f667259876c55cc
X-Google-Thread: fc2a5,f667259876c55cc
X-Google-Attributes: gid10c2ee,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!x41g2000hsb.googlegroups.com!not-for-mail
From: Peter Wieck <pfjw@aol.com>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: Re: WTB : LPAM Part 15 Transmitter BCB
Date: Mon, 25 Aug 2008 17:48:00 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <98b39f50-7700-4ad5-ae58-526c230925e0@x41g2000hsb.googlegroups.com>
References: <n8Isk.8973$Jk1.5308@newsfe01.iad>
NNTP-Posting-Host: 70.110.199.36
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1219711681 19765 127.0.0.1 (26 Aug 2008 00:48:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Aug 2008 00:48:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x41g2000hsb.googlegroups.com; posting-host=70.110.199.36;
     posting-account=tQE80AoAAACYibCqNWmwmvQ2q1XctZSS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.antiques.radio+phono:5673

rec.radio.amateur.homebrew:502

On Aug 25, 7:30=A0pm, "KC0EH" <cv...@cox.net> wrote:
> I am looking to buy a synthesized low power AM BCB transmitter for around
> the house . Homebrew ok. Please state brand , condition , price .
>
> Thanks ,
> Charlie , W5COV

For the money, and if you can get to Kutztown, I will have a
consignment of SSTRAN AMT3000 units. $80, including all taxes and with
the SMT chip already installed.

www.sstran.com   for additional information.

Phil is a neighbor and give a very good price for the show as a
courtesy to the DVHRC. We choose not to mark them up as a courtesy to
attendees.

We recently moved into a 4200 s.f. house (grandkids and all that), the
transmitter more than covers it and gets our nearest neighbors and
then some with just the kit-supplied wire antenna.

Do a search on this NG, you will get all sorts of additional
information on this and many other transmitters.

Peter Wieck
Melrose Park, PA

```
From 2878437296230595336
X-Google-Thread: 10c2ee,f667259876c55cc
X-Google-Thread: fc2a5,f667259876c55cc
X-Google-Attributes: gid10c2ee,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 25 Aug 2008 20:03:00 -0500
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
References: <n8Isk.8973$Jk1.5308@newsfe01.iad>
Subject: Re: LPAM Part 15 Transmitter BCB
Date: Mon, 25 Aug 2008 21:02:59 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Response
Message-ID: <JbqdnR-VsInZyy7VnZ2dnUVZ_h-dnZ2d@comcast.com>
Lines: 30
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 66.177.11.1
```

```
X-Trace: sv3-Z463273moZU3VxxTMnX27/zeD7QdVkLIF7qwrqYECH4VkVy1tCItpQBj/
aSzzEeqJsgRj8rT53Hbuo+!lx8wUHCWifip74za88FBQFkYml2l+wJnIqAjd26tHGdc3ruWXMZQ3WY0C/
31Zc07bXj+SWHZuh6O!snGA4xGTebof75qY5ZD5MsW9cKU=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.antiques.radio+phono:31753
rec.radio.amateur.homebrew:2954

"KC0EH" <cvest@cox.net> wrote in message
news:n8Isk.8973$Jk1.5308@newsfe01.iad...
>I am looking to buy a synthesized low power AM BCB transmitter for around the
>house . Homebrew ok. Please state brand , condition , price .
>
> Thanks ,
> Charlie , W5COV
>

In case you don't get any bites on anything more to your liking, Ramsey has a
kit at
http://www.ramseyelectronics.com/cgi-bin/commerce.exe?preadd=action&key=AM25.
I have one, and have used it for the past 3 years with no problems.  The only
thing I can suggest if you settle for this unit is to scrap the supplied wall
wart and get a regulated, filtered 12-15V power supply.  It solves a problem
with hum and distortion that the supplied power supply causes.  Ramsey has known
about this problem for a long time...  don't know if they still ship the kit
with the bad PSU.
Download the manual from their site to get an idea of the complexity of the kit.

Cheers!!!!
--
Dave M
MasonDG44 at comcast dot net  (Just substitute the appropriate characters in the
address)

Life is like a roll of toilet paper; the closer it gets to the end, the faster
it goes.




From -8344998901181474791
X-Google-Thread: fc2a5,b2461839f139fd6d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Wanted, Diodes
```

```
Date: Mon, 25 Aug 2008 23:10:33 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.08.26.06.10.33.476693@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <3e143b92-6e3e-4872-b021-03f0cf26237b@26g2000hsk.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 6
Organization: Octanews
NNTP-Posting-Date: 26 Aug 2008 01:10:38 CDT
X-Complaints-To: abuse@octanews.net
X-Original-Bytes: 789
Xref: g2news1.google.com rec.radio.amateur.homebrew:504
```

I have 1N34A's... will they do?

Cheers,

--
Gregg

```
From 4719423972292809436
X-Google-Thread: fc2a5,b2461839f139fd6d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a2g2000prm.googlegroups.com!not-for-
mail
From: laura halliday <marsgal42@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted, Diodes
Date: Tue, 26 Aug 2008 08:30:06 -0700 (PDT)
Organization: http://groups.google.com
Lines: 51
Message-ID: <c824fc80-07f7-4a7c-b286-c711932b5300@a2g2000prm.googlegroups.com>
References: <3e143b92-6e3e-4872-b021-03f0cf26237b@26g2000hsk.googlegroups.com>
     <f05b699c-5585-4236-a994-060ee07b06c8@q5g2000prf.googlegroups.com>
     <059007d4-db4f-4a13-a21e-7f04d65398f1@z66g2000hsc.googlegroups.com>
NNTP-Posting-Host: 208.181.1.34
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1219764606 30512 127.0.0.1 (26 Aug 2008 15:30:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Aug 2008 15:30:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a2g2000prm.googlegroups.com; posting-host=208.181.1.34;
     posting-account=QznKWwkAAABtWRT875LiEkR4XDuK_tqd
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.16)
     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2956
```

On Aug 25, 6:14 am, Tim Shoppa <sho...@trailing-edge.com> wrote:
> On Aug 23, 3:39 pm, laura halliday <marsga...@hotmail.com> wrote:
>
> > On Aug 17, 6:12 pm, mrhaney <w4...@cox.net> wrote:
>
> > > I am looking for a few (10) diodes 1N270...It is a germanium and used
> > > in Double Balanced mixers in SSB generation..Most suppliers have a $25
> > > to $50 min order and I don`t care for that.. thanks   Harold W4PQW
>
> > So after all that, any hints on what the original project was? Even
> > in the 1970s people were speccing matched silicon diodes (e.g. 1N914)
> > or hot carrier diodes (e.g. 5082-2800) for mixers.
>
> At least two volumes of "Single Side Band for the Radio Amateur" and
> many ARRL handbooks from the 60's show 1N270's used in balanced
> mixers.
>
> It was a jellybean of the time, it's odd that someone would not
> realize it and slavishly want to use it rather than something more
> readily available (and performance-wise far superior) today. Probably
> the same guys who insist on carbon-composition resistors everywhere
> today too :-).
>
> There are some things that appear in old construction articles that
> are worth finding. For example, the BC-453/454/455's tuning capacitors
> and drive mechanism are truly superb and I still keep my eyes open for
> them today :-).
>
> Tim.

Indeed. I have several old ARRL and RSGB Handbooks and a number of older references (including Single Sideband for the Radio Amateur).

You can see the fashions change. At one time the cool part to use was the 7360 beam deflection mixer tube; at other times the challenge was to see how many 40673 MOSFETs you could use in a single radio. Many of these designs are difficult to reproduce now.

I'll see your BC-455 tuning capacitor and raise you an Eddystone dial. :-)

You can make nice radios by applying the right technology to the problem. My recipe for a stable VFO nowadays is a postage-stamp size surface mount board mummified in bubble wrap and stuck to the end of a good, solid air variable capacitor.

Laura Halliday VE7LDH   "Non sequitur. Your ACKS are
Grid: CN89mg   uncoordinated."
ICBM: 49 16.05 N 122 56.92 W   - Nomad the Network Engineer

```
From 8767719274494042954
X-Google-Thread: fc2a5,b2461839f139fd6d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!a2g2000prm.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted, Diodes
Date: Tue, 26 Aug 2008 10:46:24 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <0c29b9b8-9822-4bde-b266-45447fe77ebf@a2g2000prm.googlegroups.com>
References: <3e143b92-6e3e-4872-b021-03f0cf26237b@26g2000hsk.googlegroups.com>
     <f05b699c-5585-4236-a994-060ee07b06c8@q5g2000prf.googlegroups.com>
     <059007d4-db4f-4a13-a21e-7f04d65398f1@z66g2000hsc.googlegroups.com>
     <c824fc80-07f7-4a7c-b286-c711932b5300@a2g2000prm.googlegroups.com>
NNTP-Posting-Host: 170.121.15.44
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1219772785 19934 127.0.0.1 (26 Aug 2008 17:46:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Aug 2008 17:46:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a2g2000prm.googlegroups.com; posting-host=170.121.15.44;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2957

On Aug 26, 11:30=A0am, laura halliday <marsga...@hotmail.com> wrote:
> Indeed. I have several old ARRL and RSGB Handbooks and a
> number of older references (including Single Sideband for the
> Radio Amateur).
>
> You can see the fashions change. At one time the cool part to
> use was the 7360 beam deflection mixer tube; at other times the
> challenge was to see how many 40673 MOSFETs you could use
> in a single radio. Many of these designs are difficult to reproduce
> now.

What's amazing is that some of the SSB rigs appearing in the 60's in
the pages of QST use not one, not two, but three 7360's :-).

40673's were also used with wild abandon. If someone wants an honest-
to-goodness 40673 they can pay $15 for a NTE221 in a metal can, but
most experimenters would use a BF998, obviously a different package
but same function.

> I'll see your BC-455 tuning capacitor and raise you an Eddystone
```

> dial. :-)
>
> You can make nice radios by applying the right technology to
> the problem. My recipe for a stable VFO nowadays is a
> postage-stamp size surface mount board mummified in bubble
> wrap and stuck to the end of a good, solid air variable capacitor.

The brass-screw-in-a-solenoid is something I just tried in my
reproduction of the MMR-40 and I am very impressed with its stability
and mechanical simplicity as a PTO. A similar but not identical
mechanical design is used in the WA6OTP PTO, I haven't tried it yet.

Tim.

```
From -6754877684514654978
X-Google-Thread: fc2a5,b2461839f139fd6d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v26g2000prm.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted, Diodes
Date: Tue, 26 Aug 2008 11:26:52 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <d0367098-b46d-4498-8550-4945493f0d38@v26g2000prm.googlegroups.com>
References: <3e143b92-6e3e-4872-b021-03f0cf26237b@26g2000hsk.googlegroups.com>
     <f05b699c-5585-4236-a994-060ee07b06c8@q5g2000prf.googlegroups.com>
     <059007d4-db4f-4a13-a21e-7f04d65398f1@z66g2000hsc.googlegroups.com>
     <c824fc80-07f7-4a7c-b286-c711932b5300@a2g2000prm.googlegroups.com>
     <0c29b9b8-9822-4bde-b266-45447fe77ebf@a2g2000prm.googlegroups.com>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1219775213 26282 127.0.0.1 (26 Aug 2008 18:26:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Aug 2008 18:26:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v26g2000prm.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.16)
     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2958
```

On Aug 26, 10:46 am, Tim Shoppa <sho...@trailing-edge.com> wrote:
...
> The brass-screw-in-a-solenoid is something I just tried in my
> reproduction of the MMR-40 and I am very impressed with its stability
> and mechanical simplicity as a PTO. A similar but not identical

```
> mechanical design is used in the WA6OTP PTO, I haven't tried it yet.
>
> Tim.

Though not actually PTO if it's a brass screw, right?

Cheers,
Tom



From -5239648517857868764
X-Google-Thread: fc2a5,b2461839f139fd6d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
b1g2000hsg.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted, Diodes
Date: Tue, 26 Aug 2008 12:05:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 24
Message-ID: <6e7b9deb-3bf3-4c09-b6a7-7d1425e4b53f@b1g2000hsg.googlegroups.com>
References: <3e143b92-6e3e-4872-b021-03f0cf26237b@26g2000hsk.googlegroups.com>
     <f05b699c-5585-4236-a994-060ee07b06c8@q5g2000prf.googlegroups.com>
     <059007d4-db4f-4a13-a21e-7f04d65398f1@z66g2000hsc.googlegroups.com>
     <c824fc80-07f7-4a7c-b286-c711932b5300@a2g2000prm.googlegroups.com>
     <0c29b9b8-9822-4bde-b266-45447fe77ebf@a2g2000prm.googlegroups.com>
     <d0367098-b46d-4498-8550-4945493f0d38@v26g2000prm.googlegroups.com>
NNTP-Posting-Host: 170.121.15.44
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1219777553 32638 127.0.0.1 (26 Aug 2008 19:05:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Aug 2008 19:05:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b1g2000hsg.googlegroups.com; posting-host=170.121.15.44;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:508

On Aug 26, 2:26=A0pm, K7ITM <k7...@msn.com> wrote:
> On Aug 26, 10:46 am, Tim Shoppa <sho...@trailing-edge.com> wrote:
> ...
>
> > The brass-screw-in-a-solenoid is something I just tried in my
> > reproduction of the MMR-40 and I am very impressed with its stability
> > and mechanical simplicity as a PTO. A similar but not identical
> > mechanical design is used in the WA6OTP PTO, I haven't tried it yet.
>
```

> > Tim.
>
> Though not actually PTO if it's a brass screw, right?

Permeability of brass is slightly less than air, which is why the PTO goes up in frequency as I screw the brass screw in.

It's not an iron-powder slug (which would go down in frequency as it enters the solenoid) but it's still a PTO.

If you haven't tried them, I highly encourage you look at the PTO in the MMR-40 and the WA6OTP PTO. Completely 100% homebrewable and I'm very happy with the results.

Tim.

From -6064995792108129790
X-Google-Thread: 10c2ee,f667259876c55cc
X-Google-Thread: fc2a5,f667259876c55cc
X-Google-Attributes: gid10c2ee,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!out02b.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!wesley.videotron.net!weber.videotron.net.POSTED!not-for-mail
From: Syl <syl@somewhere.else>
Organization: Syl et Ses Radios
User-Agent: Thunderbird 2.0.0.16 (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: Re: WTB : LPAM Part 15 Transmitter BCB
References: <n8Isk.8973$Jk1.5308@newsfe01.iad> <98b39f50-7700-4ad5-ae58-526c230925e0@x41g2000hsb.googlegroups.com>
In-Reply-To: <98b39f50-7700-4ad5-ae58-526c230925e0@x41g2000hsb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 16
Message-ID: <y30tk.4100$AV5.32109@weber.videotron.net>
Date: Tue, 26 Aug 2008 19:10:22 -0400
NNTP-Posting-Host: 24.202.90.28
X-Complaints-To: abuse@videotron.ca
X-Trace: weber.videotron.net 1219792222 24.202.90.28 (Tue, 26 Aug 2008 19:10:22 EDT)
NNTP-Posting-Date: Tue, 26 Aug 2008 19:10:22 EDT
Xref: g2news2.google.com rec.antiques.radio+phono:31813 rec.radio.amateur.homebrew:2960

Peter Wieck a �crit :

>
> For the money, and if you can get to Kutztown, I will have a
> consignment of SSTRAN AMT3000 units. $80, including all taxes and with
> the SMT chip already installed.

Peter,

That transmitter is NOT FCC part 15 compliant for what I know.

This would be misleading as the OP requests a part 15 transmitter
BCB.

Syls

From -1966360308451021522
X-Google-Thread: 10c2ee,f667259876c55cc
X-Google-Thread: fc2a5,f667259876c55cc
X-Google-Attributes: gid10c2ee,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!news1.google.com!npeer03.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!
post02.iad.highwinds-media.com!newsfe01.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
References: <n8Isk.8973$Jk1.5308@newsfe01.iad> <98b39f50-7700-4ad5-ae58-526c230925e0@x41g2000hsb.googlegroups.com>
<y30tk.4100$AV5.32109@weber.videotron.net>
Subject: Re: WTB : LPAM Part 15 Transmitter BCB
Lines: 29
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <7x0tk.10268$Jk1.7415@newsfe01.iad>
NNTP-Posting-Host: 72.192.52.79
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe01.iad 1219794115 72.192.52.79 (Tue, 26 Aug 2008 23:41:55 UTC)
NNTP-Posting-Date: Tue, 26 Aug 2008 23:41:55 UTC
Organization: Cox
Date: Tue, 26 Aug 2008 19:41:44 -0400
Xref: g2news1.google.com rec.antiques.radio+phono:5737
rec.radio.amateur.homebrew:510

"Syl" <syl@somewhere.else> wrote in message
news:y30tk.4100$AV5.32109@weber.videotron.net...
> Peter Wieck a �crit :
>
>>
>> For the money, and if you can get to Kutztown, I will have a
>> consignment of SSTRAN AMT3000 units. $80, including all taxes and with
>> the SMT chip already installed.
>
>

> Peter,
>
> That transmitter is NOT FCC part 15 compliant for what I know.
>
> This would be misleading as the OP requests a part 15 transmitter
> BCB.
>
> Syls

Syl

I believe it meets the FCC regs regarding "homemade" Part
15 devices; and would be limited to the maximum number
of units allowed per individual--five, if I recall correctly.

Pete

```
From 9203632636275376427
X-Google-Thread: 10c2ee,f667259876c55cc
X-Google-Thread: fc2a5,f667259876c55cc
X-Google-Attributes: gid10c2ee,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!news4.google.com!
out01b.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!
news.usenetserver.com!wesley.videotron.net!weber.videotron.net.POSTED!not-for-mail
From: Syl <syl@somewhere.else>
Organization: Syl et Ses Radios
User-Agent: Thunderbird 2.0.0.16 (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: Re: WTB : LPAM Part 15 Transmitter BCB
References: <n8Isk.8973$Jk1.5308@newsfe01.iad> <98b39f50-7700-4ad5-
ae58-526c230925e0@x41g2000hsb.googlegroups.com>
<y30tk.4100$AV5.32109@weber.videotron.net> <7x0tk.10268$Jk1.7415@newsfe01.iad>
In-Reply-To: <7x0tk.10268$Jk1.7415@newsfe01.iad>
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 22
Message-ID: <cN0tk.4103$AV5.32546@weber.videotron.net>
Date: Tue, 26 Aug 2008 19:59:04 -0400
NNTP-Posting-Host: 24.202.90.28
X-Complaints-To: abuse@videotron.ca
X-Trace: weber.videotron.net 1219795144 24.202.90.28 (Tue, 26 Aug 2008 19:59:04
EDT)
NNTP-Posting-Date: Tue, 26 Aug 2008 19:59:04 EDT
Xref: g2news1.google.com rec.antiques.radio+phono:5738
rec.radio.amateur.homebrew:511
```

Tio Pedro a �crit :

>
> Syl
>
> I believe it meets the FCC regs regarding "homemade" Part
> 15 devices; and would be limited to the maximum number
> of units allowed per individual--five, if I recall correctly.
>
> Pete

Dear Senor Pedro,

That "part" is unclear to me. I try to understand what makes
a transmitter Part 15 compliant when homemade as opposed
to a commercial unit. Does the 100mw input still holds
(but owner/builder doesn't have to get "approved" by FCC) or
is it a don't get caught transmitting on a commercial
frequency -i.e. create interferences- and you'll do fine thing ?

Syl

```
From 8294102478963624538
X-Google-Thread: 10c2ee,f667259876c55cc
X-Google-Thread: fc2a5,f667259876c55cc
X-Google-Attributes: gid10c2ee,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
t54g2000hsg.googlegroups.com!not-for-mail
From: Peter Wieck <pfjw@aol.com>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: Re: WTB : LPAM Part 15 Transmitter BCB
Date: Tue, 26 Aug 2008 17:36:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 56
Message-ID: <f79bdc49-b88d-4a56-a79c-482710c388b8@t54g2000hsg.googlegroups.com>
References: <n8Isk.8973$Jk1.5308@newsfe01.iad> <98b39f50-7700-4ad5-
ae58-526c230925e0@x41g2000hsb.googlegroups.com>
     <y30tk.4100$AV5.32109@weber.videotron.net>
NNTP-Posting-Host: 70.110.199.36
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1219797377 20564 127.0.0.1 (27 Aug 2008 00:36:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Aug 2008 00:36:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t54g2000hsg.googlegroups.com; posting-host=70.110.199.36;
     posting-account=tQE80AoAAACYibCqNWmwmvQ2q1XctZSS
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.antiques.radio+phono:5742
```

rec.radio.amateur.homebrew:512

On Aug 26, 6:10=A0pm, Syl <s...@somewhere.else> wrote:
> Peter Wieck a =E9crit :
>
>
>
> > For the money, and if you can get to Kutztown, I will have a
> > consignment of SSTRAN AMT3000 units. $80, including all taxes and with
> > the SMT chip already installed.
>
> Peter,
>
> That transmitter is NOT FCC part 15 compliant for what I know.
>
> This would be misleading as the OP requests a part 15 transmitter
> BCB.
>
> Syls

=46rom the website:

=B7 Legal to use in the US, no FCC license required

=B7 Fully compliant with FCC Part 15 regulations

=B7 100 mW input power

=B7 100% Modulation

=B7 20Hz to 20kHz =B11 dB Audio Response

=B7 Very Low Distortion

=B7 Adjustable Audio Compressor/Limiter

=B7 10 kHz and 9 kHz channel spacing options

=B7 High Quality PC Board and Components

=B7 Comprehensive Instruction Manual

This is a "HOME MADE" unit - which means that it must meet maximum
power radiation requirements, antenna developed length requirements
and various other regulations. EXACTLY the same as the Ramsey kit, the
AES kit, the L'il 7 Kit and any of several others.

What it is NOT is approved to be sold as a full-built unit.

Makes it Part 15 - compliant.

But, by removing the spaces, you can get chapter-and-verse from Phil Bolyn at info at sstran dot com.

Peter Wieck
Melrose Park, PA

```
From 6426759009889004472
X-Google-Thread: 10c2ee,f667259876c55cc
X-Google-Thread: fc2a5,f667259876c55cc
X-Google-Attributes: gid10c2ee,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!news.glorb.com!nlpi057.nbdc.sbc.com!
prodigy.net!flpi088.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!
nlpi066.nbdc.sbc.com.POSTED!c57ba9df!not-for-mail
From: John Byrns <byrnsj@sbcglobal.net>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: Re: WTB : LPAM Part 15 Transmitter BCB
Organization: KAOS
References: <n8Isk.8973$Jk1.5308@newsfe01.iad> <98b39f50-7700-4ad5-
ae58-526c230925e0@x41g2000hsb.googlegroups.com>
<y30tk.4100$AV5.32109@weber.videotron.net> <7x0tk.10268$Jk1.7415@newsfe01.iad>
<cN0tk.4103$AV5.32546@weber.videotron.net>
User-Agent: MT-NewsWatcher/3.5.2 (PPC Mac OS X)
Message-ID: <byrnsj-7738D4.19402026082008@newsclstr03.news.prodigy.net>
Lines: 42
NNTP-Posting-Host: 76.214.192.101
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi066.nbdc.sbc.com 1219797621 ST000 76.214.192.101 (Tue, 26 Aug 2008
20:40:21 EDT)
NNTP-Posting-Date: Tue, 26 Aug 2008 20:40:21 EDT
X-UserInfo1:
FKPO@MC@@S@WRZ@[@ZOPOFXBWR\HPCTL@XT^OBPLAH[\BPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Tue, 26 Aug 2008 19:40:20 -0500
Xref: g2news2.google.com rec.antiques.radio+phono:31821
rec.radio.amateur.homebrew:2964
```

In article <cN0tk.4103$AV5.32546@weber.videotron.net>, Syl <syl@somewhere.else> wrote:

```
> Tio Pedro a �crit :
>
> >
> > Syl
> >
> > I believe it meets the FCC regs regarding "homemade" Part
> > 15 devices; and would be limited to the maximum number
> > of units allowed per individual--five, if I recall correctly.
> >
> > Pete
>
```

> Dear Senor Pedro,
>
> That "part" is unclear to me. I try to understand what makes
> a transmitter Part 15 compliant when homemade as opposed
> to a commercial unit. Does the 100mw input still holds
> (but owner/builder doesn't have to get "approved" by FCC) or
> is it a don't get caught transmitting on a commercial
> frequency -i.e. create interferences- and you'll do fine thing ?

I would have to check the CFR to be sure, but IIRC building a homemade Part 15 compliant transmitter doesn't absolve you from the basic requirements for operation in the MW broadcast band like keeping the DC input power to the final below 100 mW and the length of the antenna/ground system to 3 meters or less, I think homemade status only eliminates the need to do the more complex certification tests necessary for commercial units.

I also suspect that if you are using a Part 15 transmitter, either homemade or commercial, and it interferes with a commercial frequency, then it is your responsibility to resolve the interference problem, or shut the transmitter down, I don't think commercial units get any special privileges in this regard, although again I would have to check the CFR to be sure.

--
Regards,

John Byrns

Surf my web pages at, http://fmamradios.com/

```
From 1415904293228919394
X-Google-Thread: 10c2ee,f667259876c55cc
X-Google-Thread: fc2a5,f667259876c55cc
X-Google-Attributes: gid10c2ee,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!flpi089.ffdc.sbc.com!prodigy.net!
flpi088.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!nlpi066.nbdc.sbc.com.POSTED!
c57ba9df!not-for-mail
From: John Byrns <byrnsj@sbcglobal.net>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: Re: WTB : LPAM Part 15 Transmitter BCB
Organization: KAOS
References: <n8Isk.8973$Jk1.5308@newsfe01.iad> <98b39f50-7700-4ad5-
ae58-526c230925e0@x41g2000hsb.googlegroups.com>
<y30tk.4100$AV5.32109@weber.videotron.net> <f79bdc49-b88d-4a56-
a79c-482710c388b8@t54g2000hsg.googlegroups.com>
User-Agent: MT-NewsWatcher/3.5.2 (PPC Mac OS X)
Message-ID: <byrnsj-6B114F.19574026082008@newsclstr03.news.prodigy.net>
Lines: 50
NNTP-Posting-Host: 76.214.192.101
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi066.nbdc.sbc.com 1219798660 ST000 76.214.192.101 (Tue, 26 Aug 2008
20:57:40 EDT)
NNTP-Posting-Date: Tue, 26 Aug 2008 20:57:40 EDT
X-UserInfo1:
FKPO@MC@@S@WRZ@[@ZOPOFXBWR\HPCTL@XT^OBPLAH[\BPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Tue, 26 Aug 2008 19:57:40 -0500
Xref: g2news2.google.com rec.antiques.radio+phono:31823
rec.radio.amateur.homebrew:2965
```

In article <f79bdc49-b88d-4a56-a79c-482710c388b8@t54g2000hsg.googlegroups.com>,
 Peter Wieck <pfjw@aol.com> wrote:

```
> On Aug 26, 6:10�pm, Syl <s...@somewhere.else> wrote:
> > Peter Wieck a �crit :
> >
> > > For the money, and if you can get to Kutztown, I will have a
> > > consignment of SSTRAN AMT3000 units. $80, including all taxes and with
> > > the SMT chip already installed.
> >
> > Peter,
> >
> > That transmitter is NOT FCC part 15 compliant for what I know.
> >
> > This would be misleading as the OP requests a part 15 transmitter
> > BCB.
>
> From the website:
>
> �          Legal to use in the US, no FCC license required
>
> �          Fully compliant with FCC Part 15 regulations
>
> �          100 mW input power
>
> �          100% Modulation
>
> �          20Hz to 20kHz �1 dB Audio Response
>
> �          Very Low Distortion
>
> �          Adjustable Audio Compressor/Limiter
```

This is a misleading statement, the SSTRAN AMT3000 does not include a limiter, manufacturers claims not withstanding. A traditional limiter as used with AM transmitters controls the modulation peaks, either by a clipping operation, or with a high speed peak activated AGC amplifier, the SSTRAN AMT3000 includes neither of these circuits. The so called "Compressor/Limiter" used in the SSTRAN AMT3000 is an RMS controlled AGC amplifier with a knee in its compression curve. The RMS control means that it doesn't pay any attention to the peak levels that cause over modulation. SSTRAN calls it a "Limiter" because of the knee in the compression curve, but it fails to operate as expected of a limiter to prevent over modulation.

--
Regards,

John Byrns

Surf my web pages at, http://fmamradios.com/

From -5489728997123460627
X-Google-Thread: 10c2ee,f667259876c55cc
X-Google-Thread: fc2a5,f667259876c55cc
X-Google-Attributes: gid10c2ee,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!npeer02.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-media.com!newsfe06.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
References: <n8Isk.8973$Jk1.5308@newsfe01.iad> <98b39f50-7700-4ad5-ae58-526c230925e0@x41g2000hsb.googlegroups.com>
<y30tk.4100$AV5.32109@weber.videotron.net> <7x0tk.10268$Jk1.7415@newsfe01.iad>
<cN0tk.4103$AV5.32546@weber.videotron.net>
Subject: Re: WTB : LPAM Part 15 Transmitter BCB
Lines: 28
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5579
X-RFC2646: Format=Flowed; Original
Message-ID: <S12tk.9822$4s1.1047@newsfe06.iad>
NNTP-Posting-Host: 72.192.52.79
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe06.iad 1219800306 72.192.52.79 (Wed, 27 Aug 2008 01:25:06 UTC)
NNTP-Posting-Date: Wed, 27 Aug 2008 01:25:06 UTC
Organization: Cox
Date: Tue, 26 Aug 2008 21:24:54 -0400
Xref: g2news2.google.com rec.antiques.radio+phono:31825
rec.radio.amateur.homebrew:2966

"Syl" <syl@somewhere.else> wrote in message
news:cN0tk.4103$AV5.32546@weber.videotron.net...
> Tio Pedro a �crit :
>
> > Dear Senor Pedro,
>
> That "part" is unclear to me. I try to understand what makes
> a transmitter Part 15 compliant when homemade as opposed
> to a commercial unit. Does the 100mw input still holds
> (but owner/builder doesn't have to get "approved" by FCC) or
> is it a don't get caught transmitting on a commercial
> frequency -i.e. create interferences- and you'll do fine thing ?

>
> Syl

Mon Ami

I tried googling the FCC website, but not much luck...
There is (was) a section that mentioned that it was legal to build
a part 15 transmitter, provided it meet the FCC requirements for
regarding power, antenna limitations and spectral purity. There
was a limit on the number of such devices that could be built and
owned by individual as well.

Pete

From -1765366738479121540
X-Google-Thread: 10c2ee,f667259876c55cc
X-Google-Thread: fc2a5,f667259876c55cc
X-Google-Attributes: gid10c2ee,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!out04a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
wesley.videotron.net!weber.videotron.net.POSTED!not-for-mail
From: Syl <syl@somewhere.else>
Organization: Syl et Ses Radios
User-Agent: Thunderbird 2.0.0.16 (X11/20080724)
MIME-Version: 1.0
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: Re: WTB : LPAM Part 15 Transmitter BCB
References: <n8Isk.8973$Jk1.5308@newsfe01.iad> <98b39f50-7700-4ad5-
ae58-526c230925e0@x41g2000hsb.googlegroups.com>
<y30tk.4100$AV5.32109@weber.videotron.net> <f79bdc49-b88d-4a56-
a79c-482710c388b8@t54g2000hsg.googlegroups.com>
In-Reply-To: <f79bdc49-b88d-4a56-a79c-482710c388b8@t54g2000hsg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 90
Message-ID: <bb3tk.4106$AV5.32984@weber.videotron.net>
Date: Tue, 26 Aug 2008 22:43:19 -0400
NNTP-Posting-Host: 24.202.90.28
X-Complaints-To: abuse@videotron.ca
X-Trace: weber.videotron.net 1219804999 24.202.90.28 (Tue, 26 Aug 2008 22:43:19
EDT)
NNTP-Posting-Date: Tue, 26 Aug 2008 22:43:19 EDT
Xref: g2news1.google.com rec.antiques.radio+phono:5752
rec.radio.amateur.homebrew:516

Peter Wieck a �crit :
> On Aug 26, 6:10 pm, Syl <s...@somewhere.else> wrote:
>> Peter Wieck a �crit :
>>

>>
>>
>>> For the money, and if you can get to Kutztown, I will have a
>>> consignment of SSTRAN AMT3000 units. $80, including all taxes and with
>>> the SMT chip already installed.
>> Peter,
>>
>> That transmitter is NOT FCC part 15 compliant for what I know.
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>> This would be misleading as the OP requests a part 15 transmitter
>> BCB.
>>
>> Syls
>
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>
>
>
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> �   100% Modulation
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> �   20Hz to 20kHz �1 dB Audio Response
>
> �   Very Low Distortion
>
> �   Adjustable Audio Compressor/Limiter
>
> �   10 kHz and 9 kHz channel spacing options
>
> �   High Quality PC Board and Components
>
> �   Comprehensive Instruction Manual
>
> This is a "HOME MADE" unit - which means that it must meet maximum
> power radiation requirements, antenna developed length requirements
> and various other regulations. EXACTLY the same as the Ramsey kit, the
> AES kit, the L'il 7 Kit and any of several others.
>
> What it is NOT is approved to be sold as a full-built unit.
>
> Makes it Part 15 - compliant.
>
> But, by removing the spaces, you can get chapter-and-verse from Phil
> Bolyn at info at sstran dot com.
>
> Peter Wieck
> Melrose Park, PA

Hi Peter,

Thanks. Several of those specs do bring questions though as they aren't properly defined (unless they are in the full FCC documentation ?

i.e.

a) Just what "very low distortion" means ? To me, very low distortion would be 0,001% as a minimum. But I understand that in the real world of transmitters, 0,1% is probably considered very low distortion figures ? This based on the presumption that attaining 0,001% distortion figures is easier to attain than using tube technology. Correct me if I am wrong.

b) Adjustable compressor/limiter. To what levels ?

c) High Quality PC Board and Components. Does this means the homebrewer can't use Chinese made parts [grin]

Of course I do not mean to start a discussion on these points,
merely thinking out loud...;o)

But...I now better understand the requirements for part 15. As It shows, the only difference between a commercial unit and a homebrewer's is the latter does not have to pay labs testing and approval for his "concoction" whereas the former (the manufacturer) has to have the FCC seal of approval and the of course the onerous fee(s) along with the approval tag.

I wonder how the FCC manages the homebrewer's "concoctions", other than reacting to complaint(s) ? I suspect this is what happened to the kit builder whom got fined sometime ago ?

Syl

From -4344677516875281993
X-Google-Thread: fc2a5,f667259876c55cc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer01.iad.highwinds-media.com!news.highwinds-media.com!feed-me.highwinds-media.com!news.glorb.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 27 Aug 2008 02:10:36 -0500
From: "Phil Nelson" <philnelson@nospam.xyz>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
References: <n8Isk.8973$Jk1.5308@newsfe01.iad> <98b39f50-7700-4ad5-ae58-526c230925e0@x41g2000hsb.googlegroups.com> <y30tk.4100$AV5.32109@weber.videotron.net> <f79bdc49-b88d-4a56-a79c-482710c388b8@t54g2000hsg.googlegroups.com> <bb3tk.4106$AV5.32984@weber.videotron.net>
In-Reply-To: <bb3tk.4106$AV5.32984@weber.videotron.net>
Subject: Re: WTB : LPAM Part 15 Transmitter BCB

```
Date: Wed, 27 Aug 2008 00:09:11 -0700
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18049
Message-ID: <Ad6dnRihQI5zYCnVnZ2dnUVZ_obinZ2d@giganews.com>
Lines: 23
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-alLIi6ILVvL+fgW6kM94IFCTsAX9OiYvhc/
3yyHK7Bdl4o1abIGpKUddXPwfgdDKA0pIpfDeSzj3RcO!
1tQ6D2bn6rX2kXmmy9Ec4Eg23iabsRfIaSzBmReVJt8zpi+C2e/wfkfQDoRaf131FiLHWiQ9Nw==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.antiques.radio+phono:5767
rec.radio.amateur.homebrew:517
```

> I wonder how the FCC manages the homebrewer's "concoctions", other
> than reacting to complaint(s) ? I suspect this is what happened
> to the kit builder whom got fined sometime ago ?

They basically respond to complaints, as I recall. It's a common-sense sort of rule. You can transmit at a power level that covers your house, or your yard at best. You can't go above that level without possibly interfering with your neighbors' reception. Duh. I'm not interested in building a pirate radio station, so I can't imagine why I'd want a transmitter that could broadcast beyond our house.

I dimly recall discussions about that kit builder, but it seems he was selling manufactured units as "kits," or possibly selling non-compliant manufactured units without going through the certification process.

If you're simply piddling around in the basement and trying to build a house-level transmitter, there is no certification process. Just don't interfere with reception in your neighbors' houses, lest they complain.

Common sense rules :-)

Phil Nelson

```
From 6562106827645611388
X-Google-Thread: fc2a5,823b7d0a5be90cbd
```

```
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.news-2.mpls.iphouse.com.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Measure Signal Generator with Oscilloscope?
From: Bert Hyman <bert@iphouse.com>
References: <260b3c91-6ee2-43f2-8034-e3647f03cb10@m36g2000hse.googlegroups.com>
Organization: Not so you'd notice
Message-ID: <Xns9ADE90B7BD6F0VeebleFetzer@127.0.0.1>
User-Agent: Xnews/2006.08.24
Date: 17 Jul 2008 19:13:33 GMT
Lines: 16
NNTP-Posting-Date: 17 Jul 2008 14:13:33 CDT
NNTP-Posting-Host: 303dab5a.auth.newsreader.iphouse.com
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6Q1TR0cFnFSm]9NbUV4QGQW2J@\B0khC
X-Complaints-To: abuse@iphouse.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:366

joshhemming@fastmail.fm () wrote in
news:260b3c91-6ee2-43f2-8034-e3647f03cb10@m36g2000hse.googlegroups.com:

> I know the scope is working because its 1K hz calibration signal
> looks fine.

Well, you know that the path from the calibrator through the scope is
OK, but probably nothing about the external inputs.

> The generator dial goes from 100 KC to 30 MC.   Is this too high a
> frequency to be monitored with a 465?

The 465's specs were DC to 100MHz.

--
Bert Hyman | St. Paul, MN | bert@iphouse.com


From 4146058278578243279
X-Google-Thread: fc2a5,823b7d0a5be90cbd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feeder.erje.net!news-
fra1.dfn.de!news.tele.dk!feed118.news.tele.dk!not-for-mail
From: "Sven Lundbech" <oz7s@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <260b3c91-6ee2-43f2-8034-e3647f03cb10@m36g2000hse.googlegroups.com>
Subject: Re: Measure Signal Generator with Oscilloscope?
Date: Thu, 17 Jul 2008 23:34:45 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 29
Message-ID: <487fbaf6$0$15882$edfadb0f@dtext01.news.tele.dk>
Organization: TDC Totalloesninger
NNTP-Posting-Host: 83.88.152.195
X-Trace: 1216330486 dtext01.news.tele.dk 15882 83.88.152.195:33484
X-Complaints-To: abuse@post.tele.dk
Xref: g2news2.google.com rec.radio.amateur.homebrew:2818

<joshhemming@fastmail.fm> skrev i en meddelelse
news:260b3c91-6ee2-43f2-8034-e3647f03cb10@m36g2000hse.googlegroups.com...
>I bought an old Heathkit IG-42 "Laboratory Generator" at a flea
> market
> the other day. It powers up OK but I don't have anything to test it
> with except a TEK 465 O-scope. I looked for an output with the scope
> but couldn't find anything. I know the scope is working because its
> 1K hz calibration signal looks fine.
>
> The generator dial goes from 100 KC to 30 MC.   Is this too high a
> frequency to be monitored with a 465?
>

- the '465 is ok for a rough testing, but you may have turned the IG-42
output level way down?

Remember, the signal level output level can be adjusted from a max of 100
millivolts down to the microvolts level - and your 'scope will not show much
if the signal level is belov approx. a few millivolts.

So, crank up the level to the max of 100 millivolts and do the measurements.

Does this help?

vy 73
OZ7S Sven

From 2831622214722847177
X-Google-Thread: fc2a5,823b7d0a5be90cbd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news.acm.uiuc.edu!
news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Measure Signal Generator with Oscilloscope?
Date: Thu, 17 Jul 2008 19:25:17 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 33

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Sender: et472@216-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.0807171921370.15052@darkstar.example.org>
References: <260b3c91-6ee2-43f2-8034-e3647f03cb10@m36g2000hse.googlegroups.com>
 <Xns9ADE90B7BD6F0VeebleFetzer@127.0.0.1>
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NNTP-Posting-Date: 17 Jul 2008 23:25:31 GMT
In-Reply-To: <Xns9ADE90B7BD6F0VeebleFetzer@127.0.0.1>
Xref: g2news2.google.com rec.radio.amateur.homebrew:2819

On Thu, 17 Jul 2008, Bert Hyman wrote:

> joshhemming@fastmail.fm () wrote in
> news:260b3c91-6ee2-43f2-8034-e3647f03cb10@m36g2000hse.googlegroups.com:
>
>> I know the scope is working because its 1K hz calibration signal
>> looks fine.
>
> Well, you know that the path from the calibrator through the scope is
> OK, but probably nothing about the external inputs.
>
The only scope calibrators I've seen have been a jack or something on the
front panel of the scope, so when you touch the probe to it, you take
into consideration the scope probe, the cable to the scope and the input
circuitry.  The "scope calibrator" is as useful for a quick check like
this as an potential calibrating use.


>> The generator dial goes from 100 KC to 30 MC.   Is this too high a
>> frequency to be monitored with a 465?
>
> The 465's specs were DC to 100MHz.
>
And as someone pointed out when he asked elsewhere, a digitally tuned
radio will be useful.  Even an analog, since you can at least tell if
the generator is putting out a signal by tuning the radio and the
generator to the same frequency, and adjusting one slightly if there's
no output (to ensure one isn't off-frequency).  A shortwave radio has
the advantage over the average table radio since it can tune higher in
frequency.  When I had an SP-600, it was about the best piece of test
equipment I had.

   Michael  VE2BVW


From 3809385711507077656
X-Google-Thread: fc2a5,823b7d0a5be90cbd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
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border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.clear.net.nz!news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 18 Jul 2008 06:58:21 -0500
Date: Fri, 18 Jul 2008 23:58:32 +1200
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Measure Signal Generator with Oscilloscope?
References: <260b3c91-6ee2-43f2-8034-e3647f03cb10@m36g2000hse.googlegroups.com>
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Content-Transfer-Encoding: 7bit
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X-Original-NNTP-Posting-Host: 121-72-13-168.dsl.telstraclear.net
Message-ID: <4880855a$1@clear.net.nz>
X-Original-Trace: 18 Jul 2008 23:58:18 +1200, 121-72-13-168.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 51
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X-AuthenticatedUsername: news10531
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X-Complaints-To: abuse@clear.net.nz
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:369

Michael Black wrote:
> On Thu, 17 Jul 2008, Bert Hyman wrote:
>
>> joshhemming@fastmail.fm () wrote in
>> news:260b3c91-6ee2-43f2-8034-e3647f03cb10@m36g2000hse.googlegroups.com:
>>
>>> I know the scope is working because its 1K hz calibration signal
>>> looks fine.
>>
>>
>> Well, you know that the path from the calibrator through the scope is
>> OK, but probably nothing about the external inputs.
>>
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> front panel of the scope, so when you touch the probe to it, you take

> into consideration the scope probe, the cable to the scope and the input
> circuitry. The "scope calibrator" is as useful for a quick check like
> this as an potential calibrating use.
>
>
>>> The generator dial goes from 100 KC to 30 MC.   Is this too high a
>>> frequency to be monitored with a 465?
>>
>>
>> The 465's specs were DC to 100MHz.
>>
> And as someone pointed out when he asked elsewhere, a digitally tuned
> radio will be useful. Even an analog, since you can at least tell if
> the generator is putting out a signal by tuning the radio and the
> generator to the same frequency, and adjusting one slightly if there's
> no output (to ensure one isn't off-frequency). A shortwave radio has
> the advantage over the average table radio since it can tune higher in
> frequency. When I had an SP-600, it was about the best piece of test
> equipment I had.
>
>   Michael VE2BVW

Well you should see the signal fine on a 100MHz 465.
I have a very similar generator and I was just using it today to set up
some filters with no problems at ~7.8 Mhz, using a 60Mhz Telequipment scope.
Does that model Heath sig Gen have an output meter? Make sure the coarse
attenuator switch and fine level adjustments are fully clockwise. You
should get more than full scale on the meter when switched to Rf level.
If thats Ok then you should get around 100mV or more at the scope input.
Are you perhaps using a /100 probe, there are a few around. Most scope
probes are x1 or /10 switched though.
If the scope is indeed working and your trigger is set to auto with the
Y input at ~50Mv/div you should get plenty of signal at all of the
generators frequency range. If no display then you may have trigger
problems at higher freqencies with the scope.
Cliff Wright ZL1BDA

From 4465156350680340651
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news1.google.com!postnews.google.com!
t12g2000prg.googlegroups.com!not-for-mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Measure Signal Generator with Oscilloscope?
Date: Fri, 18 Jul 2008 10:51:15 -0700 (PDT)
Organization: http://groups.google.com
Lines: 34
Message-ID: <b94f9e7d-818a-43c8-a893-a7b5ba7bfd5c@t12g2000prg.googlegroups.com>
References: <260b3c91-6ee2-43f2-8034-e3647f03cb10@m36g2000hse.googlegroups.com>
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     posting-account=0Q4qJQoAAAB4vjIbnPnpY8JqAcYZv7Os
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     SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
3.0.04506),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-ntc-td05.proxy.aol.com[CFC87065] (Prism/1.2.1), HTTP/1.1
     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:370

On Jul 17, 11:50=EF=BF=BDam, joshhemm...@fastmail.fm wrote:
> I bought an old Heathkit IG-42 "Laboratory Generator" at a flea
> market
> the other day. =EF=BF=BDIt powers up OK but I don't have anything to test=
 it
> with except a TEK 465 O-scope. =EF=BF=BDI looked for an output with the s=
cope
> but couldn't find anything. =EF=BF=BDI know the scope is working because =
its
> 1K hz calibration signal looks fine.
>
> The generator dial goes from 100 KC to 30 MC. =EF=BF=BD Is this too high =
a
> frequency to be monitored with a 465?

Any Tektronix scope from 541 on up to 465 or 475 is good enough.

I have a dusty IG-42 in the workshop (replaced by an HP606).  It still
works fine and remains in power output calibration although the
frequency markings were never that good.

I almost hate to ask, but did you check the tubes inside your IG-42?
At least to see if the filaments are glowing?  A couple of sheet metal
screws in the back hold the main case shell to the main assembly.

BAMA doesn't have a manual on the IG-42, just the SG-8 (the model
without the output meter or better attenuator).  I have
one...somewhere
in the old stuff in the workshop.  I could scan it if I can find
it...and the
nice Kodak all-in-one is working (which it isn't as of a few days
ago).

Len  AF6AY


From 5837956102443576796
```

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X-Google-Thread: fc2a5,ff2e4b24ddfda3ad,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
d19g2000prm.googlegroups.com!not-for-mail
From: "www.urbanhotsale.net" <cnshoes84@yahoo.com.cn>
Newsgroups: rec.radio.amateur.homebrew
Subject: china whole sale prada armani A&F lacoste polo jacket,chanel coach
     handbags from china suppliers
Date: Fri, 18 Jul 2008 18:29:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 12
Message-ID: <a8f774fa-302f-4b92-ab3c-31b7a203101e@d19g2000prm.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 19 Jul 2008 01:29:26 +0000 (UTC)
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Injection-Info: d19g2000prm.googlegroups.com; posting-host=222.77.200.116;
     posting-account=8fFeYAoAAABGYqo5XRvquUsZkNVUozO4
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
     SV1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:371

Discount Coach Sandals, Dior Sandals, Prada  Sandals, Chanel Sandals,
Versace Sandals, Crocs Sandals, Women's Sandals Men's Slippers From
China
 Discount, Prada Sunglasses, Discount, D&G Sunglasses, Discount,
Fendi
Sunglasses,Discount,Burberry Sunglasses Discount, Chanel Sunglasses
Discount, LVSunglasses Discount, Dior Sunglasses Discount, (G U C C
I ) Sunglasses Discount, Armani Sunglasses Discount, Versace
SunglassesDiscount, A&F Sunglasses Discount, LV Sunglasses

For more products pls visit:
http://groups.google.com/group/sci.engr.television.broadcast/browse_thread/thread/
6eb9bed7645ab589/8b1c58a3a2cf0d19



From 1891676024539646226
X-Google-Thread: fcc6e,e0b11a8ed4635edb,start
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X-Google-Language: ENGLISH,ASCII-7-bit
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read1.cgocable.net.POSTED!53ab2750!not-for-mail
From: "Norm VE3CZI" <ve3czi@arrl.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.swap
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Subject: FS: AT-271 Fishing Pole Antenna. .. Military Collapsible Antenna
Lines: 23
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
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Message-ID: <QVbgk.24119$Mc.3148@read1.cgocable.net>
Date: Fri, 18 Jul 2008 22:01:13 -0400
NNTP-Posting-Host: 24.141.81.109
X-Complaints-To: news@cogeco.net
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NNTP-Posting-Date: Fri, 18 Jul 2008 22:01:20 EDT
Organization: Cogeco Cable
Xref: g2news1.google.com rec.radio.amateur.antenna:1614 rec.radio.amateur.homebrew:372 rec.radio.swap:362

This portable antenna can be used for the top section of a Vertical Antenna OR Horizontal elements for an Antenna System such as the Buddipole tm ...... A Great QRP / Portable Antenna weighs only 400 Grams [14 Oz] and measures 104" extended yet only 14" long when folded. Picture
The construction is the same as is used for sectional fishing poles. Each of the 8 hollow tubular metal sections has a plug one one end and a socket on the other end. All the sections are connected by a string made of either a cloth or metal cord. At the bottom of the base element there's a spring inside the tube to tension the cord. Some units may use an elastic shock-cord material. This way all the elements are kept in order when they are disconnected from each other and are held together when assembled into a 104" [8.6 Ft] long antenna. When the elements are folded or disassembled the package is only 14 inches long.
The base has a male 3/8-24 thread which is the same as is used on most Ham Radio and CB antennas. Some sort of spring base could be used when this antenna is used because the hollow antenna elements will "fold" if too much force is applied to them.
These units are in Like New Condition.. Sold AS-IS but will not be DOA.
ONLY $30 Plus Shipping

Have access to more...ASK!

From 8249497507821573269
X-Google-Thread: fc2a5,b92882f2a5f5426c,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 20 Jul 2008 22:17:10 -0500
Date: Sun, 20 Jul 2008 20:17:04 -0700
From: Gary <gbelcas@comcast.net>

User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: the great heatsink search
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:373

I'm finding that if you're looking for any heatsink that there are zillions of places to pick one up and that if you are looking for a particular sink that it is a futile task. With a little help from my friends, I'm putting together the mosfet amp in the 2006 handbook and I've pretty much secured everything on the parts list save the heatsink. It is the same unit that was used on the original FARA amp as well. Anyone have this beast in the junk bin or know of a purveyor who might?? I've scoured the web and no joy so far. The sink is an AAVID part (#244609B02). Thanks in advance all.

Gary
ka9rao

From -8666951345402095827
X-Google-Thread: fc2a5,b92882f2a5f5426c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 20 Jul 2008 23:30:52 -0500
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Od-dnSX9BckqYh7VnZ2dnUVZ_gCdnZ2d@comcast.com>
Subject: Re: the great heatsink search
Date: Sun, 20 Jul 2008 23:30:49 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180

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Message-ID: <M4SdnRCzK-ZhjRnVnZ2dnUVZ_tvinZ2d@comcast.com>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.239.37.56
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:374

Mouser. 532-244609B02

"Gary" <gbelcas@comcast.net> wrote in message
news:Od-dnSX9BckqYh7VnZ2dnUVZ_gCdnZ2d@comcast.com...
>
>
> I'm finding that if you're looking for any heatsink that there are
> zillions of places to pick one up and that if you are looking for
> a particular sink that it is a futile task.  With a little help
> from my friends, I'm putting together the mosfet amp in the 2006 handbook
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> heatsink.  It is the same unit that was used on the original FARA amp as
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> might??  I've scoured the web and no joy so far.  The sink is an AAVID
> part (#244609B02).  Thanks in advance all.
>
> Gary
> ka9rao




From -6840805982113935151
X-Google-Thread: fc2a5,b92882f2a5f5426c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
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nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 20 Jul 2008 23:34:24 -0500
Date: Sun, 20 Jul 2008 21:34:24 -0700
From: Gary <gbelcas@comcast.net>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: the great heatsink search
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References: <Od-dnSX9BckqYh7VnZ2dnUVZ_gCdnZ2d@comcast.com> <M4SdnRCzK-
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l3i4Zd0Z3RWwFg6mBFLDJtd1mCuRsg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:375

Pete KE9OA wrote:
> Mouser. 532-244609B02
>
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> news:Od-dnSX9BckqYh7VnZ2dnUVZ_gCdnZ2d@comcast.com...
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>> Gary
>> ka9rao
>
>

Apart from some teflon wire (thanks again Pete), Mouser had most of what
I needed.  Unfortunately, they no longer carry said heatsink.  Thanks
though.  Other ideas ??

Gary


From 3320962700966407484
X-Google-Thread: fc2a5,b92882f2a5f5426c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 20 Jul 2008 23:36:28 -0500
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Od-dnSX9BckqYh7VnZ2dnUVZ_gCdnZ2d@comcast.com>
Subject: Re: the great heatsink search
Date: Sun, 20 Jul 2008 23:36:27 -0600
X-Priority: 3
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X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
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IkaWowA7e9zOu0McT7Cx2edeq
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:376

start here:

http://www.mouser.com/Search/Refine.aspx?
FS=TRUE&Ntx=mode%2bmatchall&Ntk=Mouser_Wildcards&OriginalKeyword=aavid+&Ns=P_SFiel
d&Ntt=*aavid*&N=1323038&No=0

if you know the parameters of the heat sink in question, a search through
these pages on the Mouser website should give you what you need. there are
several pages to go through, so you do have your work cut out for you!

Pete

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news:Od-dnSX9BckqYh7VnZ2dnUVZ_gCdnZ2d@comcast.com...
>
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> Gary
> ka9rao

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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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NNTP-Posting-Date: Mon, 21 Jul 2008 03:44:23 -0500
Date: Mon, 21 Jul 2008 01:44:23 -0700
From: Gary <gbelcas@comcast.net>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: the great heatsink search
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:377
```

Pete KE9OA wrote:
> start here:
>
> http://www.mouser.com/Search/Refine.aspx?
FS=TRUE&Ntx=mode%2bmatchall&Ntk=Mouser_Wildcards&OriginalKeyword=aavid+&Ns=P_SFiel
d&Ntt=*aavid*&N=1323038&No=0
>
> if you know the parameters of the heat sink in question, a search through
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> several pages to go through, so you do have your work cut out for you!
>
> Pete
>
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>> might?? I've scoured the web and no joy so far. The sink is an AAVID
>> part (#244609B02). Thanks in advance all.
>>
>> Gary
>> ka9rao
>
>

Thanks for the advice. Mouser very nearly had a replacement. The unit
has horizontal fins instead of vertical and as my application is
convection-only, this likely tips the balance on effectiveness (safety).
Did find another site and it looks like a good one. It's Nebraska Sales
and Surplus. I've purchased from them before and have no complaints.
Thanks again for the quick replies.

Gary

From -6093486241843746584
X-Google-Thread: fc2a5,b92882f2a5f5426c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Mon, 21 Jul 2008 06:33:23 -0500
Date: Mon, 21 Jul 2008 12:33:09 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: the great heatsink search
References: <Od-dnSX9BckqYh7VnZ2dnUVZ_gCdnZ2d@comcast.com> <M4SdnRCzK-
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Lines: 18

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X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:378

> Apart from some teflon wire (thanks again Pete), Mouser had most of what
> I needed. Unfortunately, they no longer carry said heatsink. Thanks
> though. Other ideas ??
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> Gary

===================================
For large heatsinks (perhaps not precisely the type you need) flea
markets will be a likely source . Otherwise there might be an
electronics surplus store in your area .
Some time ago someone gave me a clapped-out (probably illegal) CB
amplifier (of Italian origin) with a heat sink to suit your project
........however I am in Scotland- UK ,otherwise I would be happy to
send it to you .

Frank   GM0CSZ / KN6WH

From -5063406975288168893
X-Google-Thread: fc2a5,b92882f2a5f5426c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Mon, 21 Jul 2008 11:45:56 -0500
Date: Mon, 21 Jul 2008 09:45:52 -0700
From: Gary <gbelcas@comcast.net>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: the great heatsink search
References: <Od-dnSX9BckqYh7VnZ2dnUVZ_gCdnZ2d@comcast.com> <M4SdnRCzK-
ZhjRnVnZ2dnUVZ_tvinZ2d@comcast.com> <J-OdnVqy_fNNjBnVnZ2dnUVZ_gKdnZ2d@comcast.com>
<69ednQRTjLye6RnVRVnyvQA@pipex.net>
In-Reply-To: <69ednQRTjLye6RnVRVnyvQA@pipex.net>
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Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 67.170.123.87
X-Trace: sv3-
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2wx7dPsI9rO5PDNXp8Cw8mQdbhbJFHBYpJrsTVDaKwlP8eVpp+trTrM200FCfdf6NhUPAOazues+!
mCRY9CX2W6up7N+ol90d7UlDLrrMoQ==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
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properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:379

Highland Ham wrote:
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> ........however I am in Scotland- UK  ,otherwise I would be happy to
> send it to you .
>
>
> Frank   GM0CSZ / KN6WH
>

Thanks for the thoughts Frank.  I would not have guessed this before the
fact but I'm finding that tracking down / scrounging these bits and
pieces is actually fun (I am also sure that there is great probability
that I will rue these words...).  Thanks again all.

Gary



From -366398137669904407
X-Google-Thread: fc2a5,b92882f2a5f5426c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
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Date: Mon, 21 Jul 2008 09:56:17 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: the great heatsink search
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
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X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:380

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> is an AAVID part (#244609B02). Thanks in advance all.
>
> Gary
> ka9rao

Aavid makes so many heat sinks that you almost have to buy custom to get
what you need.

Usually your best bet with heatsinks for a one-off is to find one that
meets your needs and use it, even if it's not identically the same thing
as the plans.

If you can find one with specifications get one that matches the thermal
conductivity to the air as what you have; if you can't get one with
specifications look for about the same or greater total surface area and
fin spacing.

The handbook used to have directions on bending heatsinks from sheet --
you basically make a bunch of nested 'U's with heat sink compound
between. I don't know how well that works, or if they still do it. I

suspect that for natural convection you'll be fine with that.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From 1320359110799413375
X-Google-Thread: fc2a5,b92882f2a5f5426c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: the great heatsink search
Date: Mon, 21 Jul 2008 10:34:00 -0700
Organization: albasani.net
Lines: 28
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NNTP-Posting-Date: Mon, 21 Jul 2008 17:33:59 +0000 (UTC)
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In-Reply-To: <Od-dnSX9BckqYh7VnZ2dnUVZ_gCdnZ2d@comcast.com>
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User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
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Xref: g2news1.google.com rec.radio.amateur.homebrew:381
```

Gary wrote:
>
>
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> zillions of places to pick one up and that if you are looking for
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> from my friends, I'm putting together the mosfet amp in the 2006
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> the heatsink. It is the same unit that was used on the original FARA

> amp as well. Anyone have this beast in the junk bin or know of a
> purveyor who might?? I've scoured the web and no joy so far. The sink
> is an AAVID part (#244609B02). Thanks in advance all.
>
> Gary
> ka9rao

Don't worry about finding the exact, go the next bigger heatsink! You
will not be sorry you did.

While you are at it, consider mounting a muffin fan on the sink to push
air though the ribs (if the plans don't already call for one.) Again,
you won't be sorry you did!

I have not seen the plans you are speaking of, but I am taking it for
granted it is a leen-e-air.

Regards,
JS

From 5638926643746495567
X-Google-Thread: fc2a5,b92882f2a5f5426c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 21 Jul 2008 13:06:09 -0500
From: "W3CQH" <hsgorden@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Od-dnSX9BckqYh7VnZ2dnUVZ_gCdnZ2d@comcast.com>
Subject: Re: the great heatsink search
Date: Mon, 21 Jul 2008 14:06:12 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39

Xref: g2news1.google.com rec.radio.amateur.homebrew:382

"Gary" <gbelcas@comcast.net> wrote in message
news:Od-dnSX9BckqYh7VnZ2dnUVZ_gCdnZ2d@comcast.com...
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> Gary
> ka9rao

Have you tried: info@aavid.com

From 2898699162245348249
X-Google-Thread: fc2a5,b92882f2a5f5426c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 21 Jul 2008 19:31:40 -0500
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Od-dnSX9BckqYh7VnZ2dnUVZ_gCdnZ2d@comcast.com>
<97mdnQE9Y_bRjxnVnZ2dnUVZ_tvinZ2d@comcast.com>
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Subject: Re: the great heatsink search
Date: Mon, 21 Jul 2008 20:31:34 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
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Message-ID: <hI6dnbtEUePxtxjVnZ2dnUVZ_jOdnZ2d@comcast.com>
Lines: 63
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X-Trace: sv3-vRe7t1QSzz3H/WijURRDIIMzG4Ai2F7nwt4NzRJS/Sd7O02HckY/
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X-Complaints-To: abuse@comcast.net

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X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:383

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news:bfednaK7e4z10RnVnZ2dnUVZ_uWdnZ2d@comcast.com...
> Pete KE9OA wrote:
>> start here:
>>
>> http://www.mouser.com/Search/Refine.aspx?
FS=TRUE&Ntx=mode%2bmatchall&Ntk=Mouser_Wildcards&OriginalKeyword=aavid+&Ns=P_SFiel
d&Ntt=*aavid*&N=1323038&No=0
>>
>> if you  know the parameters of the heat sink in question, a search through
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> Did find another site and it looks like a good one.  It's Nebraska Sales and
> Surplus.  I've purchased from them before and have no complaints. Thanks again
> for the quick replies.
>
> Gary

I don't have a copy or the 2006 handbook, so I can't visualize the heatsink that
you're looking for.  Low resistance heatsinks are usually made from extrusions
and can be any of a number of designs.
Is there a photo in the article that shows the heatsink?  Possible for you to
```

post a scan of it on alt.binaries.schematics.electronic? Also, the dimensions of the heatsink would help to find a substitute and source.
If you're in or near the central Florida area, Skycraft usually has a couple bins of heavy heatsinks that might suit the job. I bought a couple that calculates to about 0.5 degC/watt each about a year ago. Last time I was in the store (in February this year), they still had about 10 of them on the shelf.

You mentioned that it was also used on the FARA amp. Is there a link to a web page that describes (hopefully with a photo) the amp?

Cheers!!
--
Dave M
MasonDG44 at comcast dot net (Just substitute the appropriate characters in the address)

Experience: What you get when you don't get what you want

```
From 3286585560676401538
X-Google-Thread: fc2a5,b92882f2a5f5426c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 21 Jul 2008 22:15:39 -0500
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Od-dnSX9BckqYh7VnZ2dnUVZ_gCdnZ2d@comcast.com>
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Subject: Re: the great heatsink search
Date: Mon, 21 Jul 2008 22:15:37 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:384

Oh, that's ok Gary. I hope you find the one you are looking for. Most of
that stuff from Surplus Sales of Nebraska came from the Inventory Disposal
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Pete

"Gary" <gbelcas@comcast.net> wrote in message
news:bfednaK7e4z10RnVnZ2dnUVZ_uWdnZ2d@comcast.com...
> Pete KE9OA wrote:
>> start here:
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>> http://www.mouser.com/Search/Refine.aspx?
FS=TRUE&Ntx=mode%2bmatchall&Ntk=Mouser_Wildcards&OriginalKeyword=aavid+&Ns=P_SFiel
d&Ntt=*aavid*&N=1323038&No=0
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From 3292888517192585535
X-Google-Thread: fc2a5,b92882f2a5f5426c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 22 Jul 2008 02:36:32 -0500
Date: Tue, 22 Jul 2008 00:36:31 -0700
From: Gary <gbelcas@comcast.net>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: the great heatsink search
References: <Od-dnSX9BckqYh7VnZ2dnUVZ_gCdnZ2d@comcast.com>
<97mdnQE9Y_bRjxnVnZ2dnUVZ_tvinZ2d@comcast.com>
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2836

Pete KE9OA wrote:
> Oh, that's ok Gary. I hope you find the one you are looking for. Most of
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> news:bfednaK7e4z10RnVnZ2dnUVZ_uWdnZ2d@comcast.com...
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>>> start here:
>>>
>>> http://www.mouser.com/Search/Refine.aspx?

```
FS=TRUE&Ntx=mode%2bmatchall&Ntk=Mouser_Wildcards&OriginalKeyword=aavid+&Ns=P_SFiel
d&Ntt=*aavid*&N=1323038&No=0
>>>
>>> if you  know the parameters of the heat sink in question, a search
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Thanks one and all for the suggestions.  Started soldering this evening
so there's no turning back...

Gary



From -1013750999705212070
X-Google-Thread: fc2a5,b92882f2a5f5426c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!x35g2000hsb.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: the great heatsink search
Date: Wed, 23 Jul 2008 08:12:34 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
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Message-ID: <7905114b-7614-4ee0-911f-b0b96b1e0e53@x35g2000hsb.googlegroups.com>
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     <wN6dnXnZG7NGzRjVnZ2dnUVZ_gCdnZ2d@comcast.com>
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X-Trace: posting.google.com 1216825954 27078 127.0.0.1 (23 Jul 2008 15:12:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 23 Jul 2008 15:12:34 +0000 (UTC)
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:386



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FS=TRUE&Ntx=mode%2bmatchall&Ntk=Mouser_Wildcards&OriginalKeyword=aavid+&Ns=P_SFiel
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> Thanks one and all for the suggestions. Started soldering this evening
> so there's no turning back...
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I've found several good heatsinks and power supplies at Goodwill. I
purchased an old stereo amp that had 6 100 watt channels. The last one
I bought cost less than $20. I am really surprised at the way people
cast things like this off. It is now the heart of my home
entertainment system.

Jimmie

From -8487072238604736146
X-Google-Thread: fc2a5,b92882f2a5f5426c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!not-for-mail
Date: Wed, 23 Jul 2008 21:57:14 -0400
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
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Subject: Re: the great heatsink search
References: <Od-dnSX9BckqYh7VnZ2dnUVZ_gCdnZ2d@comcast.com>
     <97mdnQE9Y_bRjxnVnZ2dnUVZ_tvinZ2d@comcast.com>
<bfednaK7e4z10RnVnZ2dnUVZ_uWdnZ2d@comcast.com>
<wN6dnXnZG7NGzRjVnZ2dnUVZ_gCdnZ2d@comcast.com>
<it2dnTL8aImdExjVnZ2dnUVZ_uGdnZ2d@comcast.com> <7905114b-7614-4ee0-911f-
b0b96b1e0e53@x35g2000hsb.googlegroups.com>
In-Reply-To: <7905114b-7614-4ee0-911f-b0b96b1e0e53@x35g2000hsb.googlegroups.com>

```
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 75
Message-ID: <4888acc7$0$18110$9a6e19ea@unlimited.newshosting.com>
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
NNTP-Posting-Host: 70.121.205.178
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:387

jimmie68@gmail.com wrote:
>
> Gary wrote:
>> Pete KE9OA wrote:
>>> Oh, that's ok Gary. I hope you find the one you are looking for. Most of
>>> that stuff from Surplus Sales of Nebraska came from the Inventory Disposal
>>> sale from Rockwell-Collins, which means that it is of good quality.
>>>
>>> Pete
>>>
>>> "Gary" <gbelcas@comcast.net> wrote in message
>>> news:bfednaK7e4z10RnVnZ2dnUVZ_uWdnZ2d@comcast.com...
>>>> Pete KE9OA wrote:
>>>>> start here:
>>>>>
>>>>> http://www.mouser.com/Search/Refine.aspx?
FS=TRUE&Ntx=mode%2bmatchall&Ntk=Mouser_Wildcards&OriginalKeyword=aavid+&Ns=P_SFiel
d&Ntt=*aavid*&N=1323038&No=0
>>>>>
>>>>> if you  know the parameters of the heat sink in question, a search
>>>>> through these pages on the Mouser website should give you what you need.
>>>>> there are several pages to go through, so you do have your work cut out
>>>>> for you!
>>>>>
>>>>> Pete
>>>>>
>>>>> "Gary" <gbelcas@comcast.net> wrote in message
>>>>> news:Od-dnSX9BckqYh7VnZ2dnUVZ_gCdnZ2d@comcast.com...
>>>>>> I'm finding that if you're looking for any heatsink that there are
>>>>>> zillions of places to pick one up and that if you are looking for
>>>>>> a particular sink that it is a futile task.  With a little help
>>>>>> from my friends, I'm putting together the mosfet amp in the 2006
>>>>>> handbook and I've pretty much secured everything on the parts list save
>>>>>> the heatsink.  It is the same unit that was used on the original FARA
>>>>>> amp as well.  Anyone have this beast in the junk bin or know of a
>>>>>> purveyor who might??  I've scoured the web and no joy so far.  The sink
>>>>>> is an AAVID part (#244609B02).  Thanks in advance all.
>>>>>>
>>>>>> Gary
>>>>>> ka9rao
>>>> Thanks for the advice.  Mouser very nearly had a replacement.  The unit
>>>> has horizontal fins instead of vertical and as my application is
>>>> convection-only, this likely tips the balance on effectiveness (safety).
```

```
>>>> Did find another site and it looks like a good one.  It's Nebraska Sales
>>>> and Surplus.  I've purchased from them before and have no complaints.
>>>> Thanks again for the quick replies.
>>>>
>>>> Gary
>>>
>> Thanks one and all for the suggestions.  Started soldering this evening
>> so there's no turning back...
>>
>> Gary
>
> I've found several good heatsinks and power supplies at Goodwill. I
> purchased an old stereo amp that had 6 100 watt channels. The last one
> I bought cost less than $20. I am really surprised at the way people
> cast things like this off. It is now the heart of my home
> entertainment system.
>
> Jimmie
\

Don't forget old land mobile radios like MASTR II, Mitrek or SyntorX for
some heat sinks with great thermal mass. You may need some metalworking
tools to cut off and smooth down the mating area neded for your device
layout.

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money"  ;-P




From 7585322293108501486
X-Google-Thread: fc2a5,22b5fe468e41ab18,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n33g2000pri.googlegroups.com!not-for-
mail
From: RF King <TravisCurrier@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA:  4 Type N Female to Female Adapters
Date: Thu, 24 Jul 2008 14:42:01 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <3b2d8e5c-6d56-419a-ad7b-63d7185ffb2d@n33g2000pri.googlegroups.com>
NNTP-Posting-Host: 72.54.251.178
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
```

X-Trace: posting.google.com 1216935722 31117 127.0.0.1 (24 Jul 2008 21:42:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 24 Jul 2008 21:42:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n33g2000pri.googlegroups.com; posting-host=72.54.251.178;
     posting-account=DlP5YwoAAABdjm_DJzoZgY1pnXMYD7rO
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.1)
     Gecko/2008070208 Firefox/3.0.1,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:388

FA: 4 Type N Female to Female Adapters

http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&ssPageName=STRK:MESELX:IT&item=190239258075

For complete CATALOG Go to.

http://www.aaarfproducts.com/catalog/AARFBROCHURE01-08.pdf

Travis Currier
AAA RF Products
Phone: 949-481-3154
Email:sales@aaarfproducts.com
Website: www.aaarfproducts.com
Location: San Clemente, CA

From 8773773570293975666
X-Google-Thread: fc2a5,b92882f2a5f5426c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 24 Jul 2008 16:52:25 -0500
From: Dave M <masondg4xx4@cxxomcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: the great heatsink search
Date: Thu, 24 Jul 2008 17:52:23 -0400
Message-ID: <eash84t2or3pl12h46v2af00ao043kl751@4ax.com>
References: <Od-dnSX9BckqYh7VnZ2dnUVZ_gCdnZ2d@comcast.com>
<97mdnQE9Y_bRjxnVnZ2dnUVZ_tvinZ2d@comcast.com>
<bfednaK7e4z10RnVnZ2dnUVZ_uWdnZ2d@comcast.com>
<wN6dnXnZG7NGzRjVnZ2dnUVZ_gCdnZ2d@comcast.com>
<it2dnTL8aImdExjVnZ2dnUVZ_uGdnZ2d@comcast.com>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 83

```
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-tfzNPGf22/+D2GpivAqIg38t/
HLb4NFDLl9KmQzz5pU0/8RsTaEYj5nL8nT4btmjRW+zh0ivjNb8v77!
u0PMsowAR2kaS8VTMmTDcMHSQaX5LFFqvt6IwXpTJ9ssNjjXo3eGCDO7W9BCapqS7J7N
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:389

On Tue, 22 Jul 2008 00:36:31 -0700, Gary <gbelcas@comcast.net> wrote:

>Pete KE9OA wrote:
>> Oh, that's ok Gary. I hope you find the one you are looking for. Most of
>> that stuff from Surplus Sales of Nebraska came from the Inventory Disposal
>> sale from Rockwell-Collins, which means that it is of good quality.
>>
>> Pete
>>
>> "Gary" <gbelcas@comcast.net> wrote in message
>> news:bfednaK7e4z10RnVnZ2dnUVZ_uWdnZ2d@comcast.com...
>>> Pete KE9OA wrote:
>>>> start here:
>>>>
>>>> http://www.mouser.com/Search/Refine.aspx?
FS=TRUE&Ntx=mode%2bmatchall&Ntk=Mouser_Wildcards&OriginalKeyword=aavid+&Ns=P_SFiel
d&Ntt=*aavid*&N=1323038&No=0
>>>>
>>>> if you  know the parameters of the heat sink in question, a search
>>>> through these pages on the Mouser website should give you what you need.
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>>>>
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>>>>
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>>>>>
>>>>> Gary
>>>>> ka9rao
>>>>
>>> Thanks for the advice.  Mouser very nearly had a replacement.  The unit
```

>>> has horizontal fins instead of vertical and as my application is
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>>> Did find another site and it looks like a good one. It's Nebraska Sales
>>> and Surplus. I've purchased from them before and have no complaints.
>>> Thanks again for the quick replies.
>>>
>>> Gary
>>
>>
>Thanks one and all for the suggestions. Started soldering this evening
>so there's no turning back...
>
>Gary

OK, I found a copy of the article that you're building. If it's the same
article that's in the 2007 handbook (titled "A Broadband HF Amplifier Using
Low-cost MOSFETs" bu WA2EBY), then maybe I can help with the heatsink.
I found a photo in the article that shows pretty clearly the heatsink as mounted
on the rear of the chassis. I'm guessing at the dimensions of the rear panel of
the chassis. The box is given as 3.5x6x8, but it's hard to conclude whether the
rear panel is 3.5x6 or 3.5x8.
I assumed the rear panel to be 3.5x8, did a bit of extrapolation and estimated
the size of the heatsink to be approximately 5.5" wide, 2.75" tall, 1.25" fin
height.
Newark shows a heatsink meeting those measurements (approximately) at
http://www.newark.com/54M0782/fans-heat-sinks-thermal-management/product.us0?
sku=fischer-elektronik-sk-85-75-sa,
and appears to be in stock. The given measurements for that heatsink are 160mm
wide, 75mm tall and 40mm fin height, with a thermal resistance of 1.2 degC/watt.
No clear area in the middle, so you'll likely have to drill & tap the base to
mount the transistors.

The heatsink itself is reasonable enough, but the caveat is that it's stocked in
the UK and drop shipped from there, with a $20 handling fee.

I stopped searching when I found that heatsink, so you might do a more thorough
search using those approximate measurements and find something suitable, and
less expensive.

Cheers!!!
==============

Dave M

Never take a laxative and a sleeping pill at the same time!!

From 2530798385497293969
X-Google-Thread: fc2a5,a8c443caa694d84,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a21g2000prf.googlegroups.com!not-for-
mail

```
From: Travis <TravisCurrier@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: 4 Type N Male to Male Adapters
Date: Thu, 24 Jul 2008 16:36:15 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <744e44fe-29fc-47c8-9033-828c3a03222b@a21g2000prf.googlegroups.com>
NNTP-Posting-Host: 72.54.251.178
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1216942575 20310 127.0.0.1 (24 Jul 2008 23:36:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 24 Jul 2008 23:36:15 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a21g2000prf.googlegroups.com; posting-host=72.54.251.178;
     posting-account=DlP5YwoAAABdjm_DJzoZgY1pnXMYD7rO
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.1)
     Gecko/2008070208 Firefox/3.0.1,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2841

FA: 4 Type N Male to Male Adapters

http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&ssPageName=STRK:MESELX:IT&item=190239280220


For complete CATALOG Go to.

http://www.aaarfproducts.com/catalog/AARFBROCHURE01-08.pdf


Travis Currier
AAA RF Products
Phone: 949-481-3154
Email:sales@aaarfproducts.com
Website: www.aaarfproducts.com
Location: San Clemente, CA


From -1487045192608499521
X-Google-Thread: fc2a5,75c93ee819c541d1,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad!news.highwinds-media.com!
feed-me.highwinds-media.com!post02.iad!newsfe07.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Stabilizing HE-30?? Ideas?
Lines: 5
X-Priority: 3
X-MSMail-Priority: Normal
```

X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <Uo9ik.2377$1N1.1777@newsfe07.iad>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe07.iad 1216946868 72.209.25.33 (Fri, 25 Jul 2008 00:47:48 UTC)
NNTP-Posting-Date: Fri, 25 Jul 2008 00:47:48 UTC
Organization: Cox
Date: Thu, 24 Jul 2008 20:47:42 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:391

My HE-30 Lafayette is virtually useless on 40 CW; it constantly
walks... I'm looking for some suggestions for circuit mods to
attempt to tame it down a bit. Schematic is on Bama.

From -6564192488593345593
X-Google-Thread: fc2a5,75c93ee819c541d1
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!newsfeed.stanford.edu!
news.kjsl.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Stabilizing HE-30?? Ideas?
Date: Fri, 25 Jul 2008 00:31:21 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 38
Sender: et472@72.0.192.106
Message-ID: <Pine.LNX.4.64.0807250024540.24507@darkstar.example.org>
References: <Uo9ik.2377$1N1.1777@newsfe07.iad>
NNTP-Posting-Host: 72.0.192.106
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1216960323 28802 72.0.192.106 (25 Jul 2008 04:32:03 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 25 Jul 2008 04:32:03 GMT
In-Reply-To: <Uo9ik.2377$1N1.1777@newsfe07.iad>
Xref: g2news1.google.com rec.radio.amateur.homebrew:392

On Thu, 24 Jul 2008, Tio Pedro wrote:

> My HE-30 Lafayette is virtually useless on 40 CW; it constantly
> walks... I'm looking for some suggestions for circuit mods to
> attempt to tame it down a bit. Schematic is on Bama.
>

That's the one that's sort of a clone of the S-38?

There's the classic modification article in "73" about 1964, where
someone trading it in has to undo all the modifications, and just

as he gets to the store he remembers one last thing he hadn't undone.

There was an Indian ham who wrote quite a few articles in the late sixties and early seventies, and he had an article in QST about 1971 or '72 which I thought was about the S-38. That particular article was about his odd method of receiving CW, go for a really low tone (and he explained why, I can't remember the details), but he talked about the troubles he had with stability. I think he solved it with a crystal controlled converter (I think he had two articles about that one, a 7360 based converter that was like the front end in a QST receiver, complete with front end Q-multiplier, and then a mosfet version of the same basic design).

You should be reading Popular Communication this month. Some guy is writing about his first Lafayette receiver.

But seriously, when I saw that, it reminded me not of having that early receiver, but of finding an entry in home hanyman's encyclopedia for that first Lafayette receiver of yours. I guess it was put out by Mechanix Illustrated, and had some articles from Electronics Illustrated. Not that much, but when I was 10 or 11 and looking for electronic and radio things to read, finding the few in there was great. Unfortunately, I can't find the specific volume, that I did look for after noticing your column in the magazine.

    Michael VE2BVW

```
From -3642521539916999616
X-Google-Thread: fc2a5,75c93ee819c541d1
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 25 Jul 2008 01:56:50 -0500
From: Tom2000 <abuse@giganews.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Stabilizing HE-30?? Ideas?
Date: Thu, 24 Jul 2008 23:56:47 -0700
Message-ID: <r7ui84tefa1ek2q54itschj3jhjm3v1f00@4ax.com>
References: <Uo9ik.2377$1N1.1777@newsfe07.iad>
X-Newsreader: Forte Agent 2.0/32.652
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 080725-0, 07/25/2008), Outbound message
X-Antivirus-Status: Clean
Lines: 18
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 68.167.249.116
```

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X-Trace: sv3-AageDMzniLjZQ1nEhV39wdsQh17QUGGcItmU8YvkJR/RQWd2IKsOikls+vU+rsqIG/
6DiwzJXtDYtql!hMwkmJu/OkZfxCF6H+nB8KZH2MutjyjyKo/
7CAI25YZ1nOdlBzUqiHEIu8DabLD75NAHAKT5Usz4!VIvbTPMNMfCRuECV1vrc9AdfYcI74Q==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:393
```

On Thu, 24 Jul 2008 20:47:42 -0400, "Tio Pedro"
<radioconnection@cox.net> wrote:

>My HE-30 Lafayette is virtually useless on 40 CW; it constantly
>walks... I'm looking for some suggestions for circuit mods to
>attempt to tame it down a bit. Schematic is on Bama.
>

You might look into a "huff 'n puff" stabilization scheme. The link
below is a good place to start:

   http://www.hanssummers.com/radio/huffpuff/index.htm

Good luck!

   Tom

```
From 3213895357820479942
X-Google-Thread: fc2a5,75c93ee819c541d1
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!
nx01.iad01.newshosting.com!newshosting.com!69.16.185.16.MISMATCH!npeer02.iad!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad!
newsfe01.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Uo9ik.2377$1N1.1777@newsfe07.iad>
<r7ui84tefa1ek2q54itschj3jhjm3v1f00@4ax.com>
Subject: Re: Stabilizing HE-30?? Ideas?
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <wPhik.143$wY7.85@newsfe01.iad>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe01.iad 1216981340 72.209.25.33 (Fri, 25 Jul 2008 10:22:20 UTC)
```

```
NNTP-Posting-Date: Fri, 25 Jul 2008 10:22:20 UTC
Organization: Cox
Date: Fri, 25 Jul 2008 06:22:12 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:394
X-Original-Bytes: 1585


"Tom2000" <abuse@giganews.net> wrote in message
news:r7ui84tefa1ek2q54itschj3jhjm3v1f00@4ax.com...
> On Thu, 24 Jul 2008 20:47:42 -0400, "Tio Pedro"
> <radioconnection@cox.net> wrote:
>  > You might look into a "huff 'n puff" stabilization scheme.  The link
> below is a good place to start:
>
>   http://www.hanssummers.com/radio/huffpuff/index.htm
>
> Good luck!
>
>   Tom
>
Thought of one, but the drift rate is too fast for many
H&P circuits, plus it would exceed the lock range
in short order...

Pete





From 2614459860848485351
X-Google-Thread: fc2a5,75c93ee819c541d1
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!npeer01.iad!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad!
newsfe01.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Uo9ik.2377$1N1.1777@newsfe07.iad>
<Pine.LNX.4.64.0807250024540.24507@darkstar.example.org>
Subject: Re: Stabilizing HE-30?? Ideas?
Lines: 25
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <7Uhik.144$wY7.12@newsfe01.iad>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe01.iad 1216981635 72.209.25.33 (Fri, 25 Jul 2008 10:27:15 UTC)
NNTP-Posting-Date: Fri, 25 Jul 2008 10:27:15 UTC
Organization: Cox
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Date: Fri, 25 Jul 2008 06:27:07 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:395

"Michael Black" <et472@ncf.ca> wrote in message
news:Pine.LNX.4.64.0807250024540.24507@darkstar.example.org...
> On Thu, 24 Jul 2008, Tio Pedro wrote:
>
 > That's the one that's sort of a clone of the S-38?
>
> >   Michael VE2BVW
>
It is the clone of the HE-10, which looks like the S-38 :)

I added a voltage regulator, which stopped the oscillator
pulling problems when running the IF gain up and down
(thirty volt swing!). I did a few other simple mods to
get rid of residual hum in the headphones (ground loop
on filament grounding and added one more filter stage
in the PS.) But this drift has me stumped. I tried a
few different osc. circuits, but the design is weird.
It is basically a BS Hartley, except on the highest band
which requires a feedback loop back to the plate to
get it into osc. I suspect it is the nature of the beast.

Pete

From -2672333895561671925
X-Google-Thread: fc2a5,370e0b70738338d6,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
a6g2000prm.googlegroups.com!not-for-mail
From: "Dwight D. Eisenhower" <rottedHonda@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: lot of vintage mics- CB radios-car radios-wood/bakelite
     radios-receivers-mics-transceivers-TUBES-estate sale clearance
Date: Fri, 25 Jul 2008 05:14:18 -0700 (PDT)
Organization: http://groups.google.com
Lines: 87
Message-ID: <3c986fec-daa4-443e-b418-e4a1b4ac1d18@a6g2000prm.googlegroups.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
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X-Complaints-To: groups-abuse@google.com
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Injection-Info: a6g2000prm.googlegroups.com; posting-host=209.74.23.237;

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4.90),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:396

http://shop.ebay.com/merchant/66-catalina_W0QQ_nkwZQQ_armrsZ1QQ_fromZQQ_mdoZ

WWII SIGNAL CORPS LANTERN-U.S.ARMY-MX290GV-VINTAGE-$$$$ 0 Bids $24.99
$45.00
Free 3d 13h 28m

16 TAPES LOT 4-TRACK CARTRIDGES-SINATRA-PETER,PAUL,MARY 0 Bids $24.99
$50.00
Free 3d 13h 28m

PHILCO MODEL 66 WOODEN TOMBSTONE ANTIQUE RADIO-TUBES-$$ 0 Bids $49.98
$250.00
+$40.00 3d 13h 28m

PHILCO VINTAGE BAKELITE TELEVISION BOOSTER BOX-COMPLETE 0 Bids $9.98
+$10.00 3d 13h 28m

ANTIQUE CUNNINGHAM WOOD RADIO w/TUBES-parts/fix/restore 1 Bid $24.99
+$20.00 3d 13h 28m

AMPEX MICRO 85 STEREO CASSETTE RECORDER-INTEGRATED AMP-
MADE IN AUSTRIA-VINTAGE HIGH END DECK w/120 VAC MOTOR-$ 0 Bids $24.99
$50.00
+$20.00 3d 13h 28m

LOT OF (14) OLD PLASTIC-BAKELITE-ANTIQUE TUBE RADIOS-$$ 0 Bids $99.88
+$100.00 3d 13h 28m

1930's WOODEN RADIO CATHEDRAL EXTERNAL SPEAKER-ANTIQUE- 1 Bid $24.99
+$20.00 3d 13h 28m

(6) RCA SOUNDTAPE MAGAZINE LOADED LARGE CASSETTE TAPES- 0 Bids $24.99
$125.00
+$10.00 3d 13h 28m

ZENITH LONG DISTANCE WAVE MAGNET SUITCASE TUBE RADIO-$$ 0 Bids $24.99
+$25.00 3d 13h 28m

FIRESTONE MODEL S-7403-3 WOOD RADIO-TUBES-parts/fix-$$$ 0 Bids $24.99
+$25.00 3d 13h 28m

MUNTZ 4-TRACK CARTRIDGE STEREO TAPE DECK W/MOUNT-NICE-$ 0 Bids $24.99
$100.00
+$30.00 3d 13h 28m

STEWART ANTIQUE PHONOGRAPH-EARLY 1900's-parts/restore-$ 0 Bids $24.99
+$35.00 3d 13h 28m

RCA SOUNDTAPE MAGAZINE LOADED CASSETTE RECORDER-SCP2-$$
STEREO SINGLE ENDED TUBE AMP INSIDE W/6V6'S-VINTAGE AMP 1 Bid $99.88
+$50.00 3d 13h 28m

STANDARD BRAND AM/FM STEREO TUNER-VINTAGE COMPONENT-$$$ 0 Bids $9.98
+$15.00 4d 13h 28m

WIPER MOTOR LINKAGE-GTO-CHEVELLE-GRAN SPORT-442-SKYLARK
CUTLASS-F85-SPECIAL-JUDGE-GT37-T37-MALIBU-SS396-SS454-$ 0 Bids $9.98
+$10.00 4d 13h 28m

VINTAGE ASTATIC D-104 MIC w/UG8 CHROME STAND-classic-$$ 2 Bids $10.50
+$10.00 4d 13h 28m

STEWART-WARNER MOD 07-5R5 ANTIQUE TUBE WOODEN RADIO-old 0 Bids $24.99
+$20.00 4d 13h 28m

ANTIQUE WOODEN ASTATIC TV STATION CONTROLLER-1940-50's- 0 Bids $9.98
+$10.00 4d 11h 54m

VINTAGE LIONEL-MULTI CONTROL TRAINMASTER TRANSFORMER-$$
25 VOLT OUTPUT w/ WHISTLE, DIRECTION, SPEED CONTROLS-VG 0 Bids $24.99
+$15.00 4d 13h 28m

VINTAGE RCA MODEL MI-12016G MICROPHONE w/CORD-rare-$$$$ 2 Bids $10.48
+$10.00 4d 13h 28m

(3) VINTAGE WALKIE-TALKIE CB RADIOS-ASSORTED MAKES-$$$$ 0 Bids $9.98
+$10.00 4d 13h 28m

BENDIX SAPPHIRE II ANTIQUE CAR RADIO-WHITE BUTTONS-part 2 Bids $10.98
+$10.00 4d 13h 28m

JULIETTE TOPPLAY CARTRIDGE PLAYER-2 TRACK ENDLESS LOOP-
SIMILAR TO PLAYTAPE-RARE VINTAGE AUDIO FORMAT PLAYER-$$ 0 Bids $9.98
+$10.00 4d 13h 28m

SPORTSMAN GREAT LAKES TRADE BAITCAST REEL-ANTIQUE-old-$ 0 Bids $9.98
+$10.00 4d 13h 28m

From 4681330322378026406
X-Google-Thread: fc2a5,75c93ee819c541d1
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!news.kjsl.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Stabilizing HE-30?? Ideas?
Date: Fri, 25 Jul 2008 12:22:27 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada

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Lines: 67
Sender: et472@72.0.192.100
Message-ID: <Pine.LNX.4.64.0807251210320.25232@darkstar.example.org>
References: <Uo9ik.2377$1N1.1777@newsfe07.iad>
<Pine.LNX.4.64.0807250024540.24507@darkstar.example.org>
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NNTP-Posting-Date: 25 Jul 2008 16:23:11 GMT
In-Reply-To: <7Uhik.144$wY7.12@newsfe01.iad>
Xref: g2news1.google.com rec.radio.amateur.homebrew:397

On Fri, 25 Jul 2008, Tio Pedro wrote:

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> which requires a feedback loop back to the plate to
> get it into osc. I suspect it is the nature of the beast.
>
> Pete
>
I had a Hallicrafters S-120A, which was transistorized, the
only shortwave receiver that I could afford in 1971, and it
has to be the worst receiver ever sold.  Not just the usual
faults of bad dial, bad image rejection and bad stability, but
it had the bonus of overloading really badly because they weren't
designing good solid state receivers at the time.

We lived with them because we couldn't afford anything better.
I'd say the experience of having such a bad receiver often
included attempts to improve them, even though they started
out so bad that it was impossible to do much.
```

The transistorized one, at least when I was 11, was too undecipherable to do anything to. I did really get a handle on SSB, since while the receiver had a BFO, it wasn't strong enough to demodulate SSB. I kept having the feeling that the receiver was overloaded, that's what the SSB sounded like, and I think without prompting (but I can't remember for sure) I got the idea that if I attenuated the incoming signals I could demodulate the SSB. So I took pot scrounged out of something and used it as an attenuator between the antenna and the receiver, and I really could demodulate SSB. The problem was that I had to attenuate the signals so much that only the strongest could be received. Of course, turning down the RF gain was basically what they told you to do to receive SSB on pre-SSB receivers, so either I discovered the idea by myself, or did read about it and put it to use, I can't remember which.

I remember looking in the Handbook at the a filter to keep broadcast radio out of the receiver, and pricing the toroids placed the project out of my means. It might not have helped anyway, since the receiver wasn't really shielded, and it seemed to overload from all the broadcast signals, AM, FM and TV, while the filter was only a high pass filter if I remember properly for AM broadcast.

I went from that to a Hammarlund SP-600, you can hardly make a bigger jump.

    Michael VE2BVW

From -8673050836864442160
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From: Travis <TravisCurrier@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: 4 Type N Right Angle Male to Female Adapters
Date: Fri, 25 Jul 2008 18:06:24 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <3e125f5f-0298-4e08-b3cb-72c7a94ed8b0@y21g2000hsf.googlegroups.com>
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NNTP-Posting-Date: Sat, 26 Jul 2008 01:06:25 +0000 (UTC)
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Xref: g2news1.google.com rec.radio.amateur.homebrew:398

FA: 4 Type N Right Angle Male to Female Adapters

http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&ssPageName=STRK:MESELX:IT&item=190239282898


For complete CATALOG Go to.

http://www.aaarfproducts.com/catalog/AARFBROCHURE01-08.pdf


Travis Currier
AAA RF Products
Phone: 949-481-3154
Email:sales@aaarfproducts.com
Website: www.aaarfproducts.com
Location: San Clemente, CA


From 900269058985620859
X-Google-Thread: fc2a5,6947f0ab387bae0b,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
t54g2000hsg.googlegroups.com!not-for-mail
From: Travis <TravisCurrier@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: 4 Type N Male to BNC Female Adapters
Date: Fri, 25 Jul 2008 18:16:19 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <75bae7d1-6c48-47e2-9ddf-11911fca8ebb@t54g2000hsg.googlegroups.com>
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     Gecko/2008070208 Firefox/3.0.1,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:399
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FA: 4 Type N Male to BNC Female Adapters

http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&ssPageName=STRK:MESELX:IT&item=190239287659

For complete CATALOG Go to.

http://www.aaarfproducts.com/catalog/AARFBROCHURE01-08.pdf

Travis Currier
AAA RF Products
Phone: 949-481-3154
Email:sales@aaarfproducts.com
Website: www.aaarfproducts.com
Location: San Clemente, CA

```
From 3044524969997280507
X-Google-Thread: fc2a5,370e0b70738338d6
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: lot of vintage mics- CB radios-car radios-wood/bakelite
     radios-receivers-mics-transceivers-TUBES-estate sale clearance
Date: Sat, 26 Jul 2008 02:16:29 -0700
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Newsgroups: rec.radio.amateur.homebrew
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X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:400
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You have been reported to Ebay for using spam all over Usenet to promote your auctions.

Bye, bye store. Bye, bye login.

And hopefully, bye, bye YOU!

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From 8068027090324450275
X-Google-Thread: fc2a5,b4953671e3f93533,start
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Path: g2news1.google.com!postnews.google.com!26g2000hsk.googlegroups.com!not-for-mail
From: ANTIQUE AUDIO <matthew.bunney@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HUGE lot estate clearance-antique radios-phonos-test equip-mics-Grigsby-Grunow, Philco, Majestic, Wards Airline, consoles, tabletops, cathedral, tombstone, bakelite, wooden, plastic-much more- over 50 items listed
Date: Sat, 26 Jul 2008 05:52:10 -0700 (PDT)
Organization: http://groups.google.com
Lines: 119
Message-ID: <369f6b7f-a65d-4d3f-ba35-6f6290e9cb9a@26g2000hsk.googlegroups.com>
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1217076731 15604 127.0.0.1 (26 Jul 2008 12:52:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 26 Jul 2008 12:52:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 26g2000hsk.googlegroups.com; posting-host=216.222.240.113; posting-account=5is4YgoAAAAYG8ggbmLkA5LmXUg7ckNC
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:401

updated list

http://shop.ebay.com/merchant/66-catalina_W0QQ_nkwZQQ_armrsZ1QQ_fromZQQ_mdoZ

WWII SIGNAL CORPS LANTERN-U.S.ARMY-MX290GV-VINTAGE-$$$$ 0 Bids $24.99
$45.00
Free 2d 12h 47m
16 TAPES LOT 4-TRACK CARTRIDGES-SINATRA-PETER,PAUL,MARY 1 Bid $24.99
Free 2d 12h 47m
PHILCO MODEL 66 WOODEN TOMBSTONE ANTIQUE RADIO-TUBES-$$ 0 Bids $49.98
$250.00
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AMPEX MICRO 85 STEREO CASSETTE RECORDER-INTEGRATED AMP-
MADE IN AUSTRIA-VINTAGE HIGH END DECK w/120 VAC MOTOR-$ 0 Bids $24.99
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LOT OF (14) OLD PLASTIC-BAKELITE-ANTIQUE TUBE RADIOS-$$ 0 Bids $99.88
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$125.00
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STANDARD BRAND AM/FM STEREO TUNER-VINTAGE COMPONENT-$$$ 0 Bids $9.98
+$15.00 3d 12h 47m
WIPER MOTOR LINKAGE-GTO-CHEVELLE-GRAN SPORT-442-SKYLARK
CUTLASS-F85-SPECIAL-JUDGE-GT37-T37-MALIBU-SS396-SS454-$ 0 Bids $9.98
+$10.00 3d 12h 47m
VINTAGE ASTATIC D-104 MIC w/UG8 CHROME STAND-classic-$$ 2 Bids $10.50
+$10.00 3d 12h 47m
STEWART-WARNER MOD 07-5R5 ANTIQUE TUBE WOODEN RADIO-old 0 Bids $24.99
+$20.00 3d 12h 47m
VINTAGE LIONEL-MULTI CONTROL TRAINMASTER TRANSFORMER-$$
25 VOLT OUTPUT w/ WHISTLE, DIRECTION, SPEED CONTROLS-VG 0 Bids $24.99
+$15.00 3d 12h 47m
VINTAGE RCA MODEL MI-12016G MICROPHONE w/CORD-rare-$$$$ 3 Bids $11.01
+$10.00 3d 12h 47m
(3) VINTAGE WALKIE-TALKIE CB RADIOS-ASSORTED MAKES-$$$$ 0 Bids $9.98
+$10.00 3d 12h 47m
ANTIQUE WOODEN ASTATIC TV STATION CONTROLLER-1940-50's- 0 Bids $9.98
+$10.00 3d 11h 13m
BENDIX SAPPHIRE II ANTIQUE CAR RADIO-WHITE BUTTONS-part 2 Bids $10.98
+$10.00 3d 12h 47m
JULIETTE TOPPLAY CARTRIDGE PLAYER-2 TRACK ENDLESS LOOP-
SIMILAR TO PLAYTAPE-RARE VINTAGE AUDIO FORMAT PLAYER-$$ 0 Bids $9.98
+$10.00 3d 12h 47m
SPORTSMAN GREAT LAKES TRADE BAITCAST REEL-ANTIQUE-old-$ 1 Bid $9.98
+$10.00 3d 12h 47m
ZENITH LONG DISTANCE WAVE MAGNET SUITCASE TUBE RADIO-$$ 0 Bids $24.99
+$25.00 2d 12h 47m
RCA M1-12115-A VINTAGE AM/FM RECEIVER-MONO TUBE AMPED-$ 0 Bids $9.98
+$20.00 4d 12h 47m
FIRESTONE MODEL S-7403-3 WOOD RADIO-TUBES-parts/fix-$$$ 0 Bids $24.99
+$25.00 2d 12h 47m
MUNTZ 4-TRACK CARTRIDGE STEREO TAPE DECK W/MOUNT-NICE-$ 0 Bids $24.99
$100.00
+$30.00 2d 12h 47m
SHOTGUN/RIFLE ? FOREARM STOCK-CHECKERED-FINISHED-#04291 1 Bid $9.98
+$5.00 4d 12h 47m
NUMARK HU-235R STUDIO MONITOR HEADPHONES-VINTAGE-parts- 0 Bids $9.98
+$10.00 4d 12h 47m
1965-67 CHEVY CORVETTE VERTICAL PUSHBUTTON RADIO-$$$$$$ 0 Bids $9.98
+$10.00 4d 12h 47m
1950s BUICK GM SONOMATIC TUBE AMPED DASH RADIO-fix/part 0 Bids $9.98
+$10.00 4d 12h 47m
ANTIQUE HAVANA HARBOR CIGAR BOX RADIO-UPMANN-DUNHILL-$$ 0 Bids $9.98
+$10.00 4d 12h 47m
STEWART ANTIQUE PHONOGRAPH-EARLY 1900's-parts/restore-$ 0 Bids $24.99
+$35.00 2d 12h 47m
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STEREO SINGLE ENDED TUBE AMP INSIDE W/6V6'S-VINTAGE AMP 1 Bid $99.88
+$50.00 2d 12h 47m
VINTAGE DEVRY RF GENERATOR-P/N32000-SERIAL#105-vg cond. 0 Bids $9.98

+$25.00 4d 12h 47m
HUGE PANASONIC RS-888S QUAD RECEIVER-8TRACK-CASSETTE-$$
RECORD/PLAY STEREO/QUAD 8TRACK/CASSETTE-120/220 VOLTS-$ 0 Bids $49.98
+$35.00 4d 12h 47m
OLD LAFAYETTE COMSTAT-25 CITIZENS BAND TRANSCEIVER-TUBE 0 Bids $24.99
+$20.00 4d 12h 47m
(2) OEM GM CHEVROLET PUSHBUTTON RADIOS-1960's-CHROME-$$ 0 Bids $9.98
+$20.00 4d 12h 47m
(2) 1964 DODGE DELUXE RADIOS w/PLASTIC DASH PLATE BEZEL
"ALL TRANSISTOR" PUSHBUTTON RADIOS-413-426HEMI-440-$$$$ 0 Bids $24.99
+$20.00 4d 12h 47m
SILVERTONE MODEL 7104 ANTIQUE WOOD RADIO w/tubes-NICE-$ 0 Bids $24.99
+$35.00 3d 12h 47m
LAFAYETTE MODEL HB-111 VINTAGE TUBE AMPED CB RADIO-$$$$ 0 Bids $9.98
+$25.00 3d 12h 47m
AIR KING MODEL 4602 WOODEN RADIO W/TUBES-parts/restore- 0 Bids $24.99
+$35.00 3d 12h 47m
RCA VICTOR MOD. 96T7 WOODEN RADIO W/TUBES-PARTS/RESTORE 0 Bids $24.99
+$35.00 3d 12h 47m
ADMIRAL MOD.6RT43A-5B1A radio/phono-vintage-tubes-78rpm 0 Bids $24.99
+$35.00 3d 12h 47m
HEATHKIT VIBRATION TESTER MODEL VT-1 VINTAGE-antique-$$ 1 Bid $9.98
+$15.00 3d 12h 47m
(2) MINIATURE VINTAGE RADIO/PHONOGRAPHS-VG CONDITION-$$ 0 Bids $24.99
+$25.00 3d 12h 47m
VINTAGE SONY MINI TRANSISTOR RADIO-CRAIG CASSETTE-MORE- 0 Bids $9.98
+$20.00 4d 12h 47m
(2) AIWA PORTABLE 2-TRACK R2R RECORDERS-TP703-TP705-$$$ 0 Bids $24.99
+$35.00 4d 12h 47m
VINTAGE RCA MODEL NINE CITIZENS BAND TRANSCEIVER-TUBES- 1 Bid $9.98
+$20.00 4d 15h 47m
HEATHKIT PRECISION FIELD STRENGTH CRYSTAL TUNE WAVE-??
SOME SORT OF ANTENNA BOOSTER/HOMING DEVICE-L@@K-$$$$$$$ 0 Bids $9.98
+$25.00 4d 12h 47m
SILVERTONE STEREO SINGLE ENDED TUBE AMP w/REVERB UNIT-$
2)12AX7's drive 2)6BQ5's w/FACEPLATE-KNOBS-CORDS-TUBES- 0 Bids $149.88
$300.00
+$40.00 9d 12h 47m
3 INTERNATIONAL SILVER CO FLAGSHIP ANGLED ANTIQUE FORKS 0 Bids $9.98
+$5.00 9d 12h 47m
TEXTRON DUAL BEAM OSCILLOSCOPE MODEL N180 DUAL BEAM-$$$ 0 Bids $24.99
+$150.00 9d 12h 47m

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From: cloughbrengle@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: update to project notebook

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NNTP-Posting-Date: Sun, 27 Jul 2008 06:22:02 +0000 (UTC)
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     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:402

I've made a new entry to the homebrew project notebook page.
http://radioheaven.homestead.com/HomeBrewRX.html
Check it out if you're interested.

73, Ron W4RON

http://radioheaven.homestead.com/index.html
http://cloughbrengle.homestead.com/


From 2184194364542995749
X-Google-Thread: fc2a5,b4953671e3f93533
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X-Google-Language: ENGLISH,ASCII
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34g2000hsh.googlegroups.com!not-for-mail
From: "Dwight D. Eisenhower" <rottedHonda@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HUGE lot estate clearance-antique radios-phonos-test
     equip-mics-Grigsby-Grunow, Philco, Majestic, Wards Airline, consoles,
     tabletops, cathedral, tombstone, bakelite, wooden, plastic-much more- over 50
     items listed
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Lines: 280
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Xref: g2news1.google.com rec.radio.amateur.homebrew:403

On Jul 26, 8:52=A0am, ANTIQUE AUDIO <matthew.bun...@yahoo.com> wrote:
> updated list
>
> http://shop.ebay.com/merchant/66-catalina_W0QQ_nkwZQQ_armrsZ1QQ_fromZ...
>
> WWII SIGNAL CORPS LANTERN-U.S.ARMY-MX290GV-VINTAGE-$$$$ 0 Bids $24.99
> $45.00
> Free 2d 12h 47m
> =A016 TAPES LOT 4-TRACK CARTRIDGES-SINATRA-PETER,PAUL,MARY 1 Bid $24.99
> Free 2d 12h 47m
> =A0PHILCO MODEL 66 WOODEN TOMBSTONE ANTIQUE RADIO-TUBES-$$ 0 Bids $49.98
> $250.00
> +$40.00 2d 12h 47m
> =A0PHILCO VINTAGE BAKELITE TELEVISION BOOSTER BOX-COMPLETE 0 Bids $9.98
> +$10.00 2d 12h 47m
> =A0ANTIQUE CUNNINGHAM WOOD RADIO w/TUBES-parts/fix/restore 1 Bid $24.99
> +$20.00 2d 12h 47m
> =A0AMPEX MICRO 85 STEREO CASSETTE RECORDER-INTEGRATED AMP-
> MADE IN AUSTRIA-VINTAGE HIGH END DECK w/120 VAC MOTOR-$ 0 Bids $24.99
> $50.00
> +$20.00 2d 12h 47m
> =A0LOT OF (14) OLD PLASTIC-BAKELITE-ANTIQUE TUBE RADIOS-$$ 0 Bids $99.88
> +$100.00 2d 12h 47m
> =A01930's WOODEN RADIO CATHEDRAL EXTERNAL SPEAKER-ANTIQUE- 1 Bid $24.99
> +$20.00 2d 12h 47m
> =A0(6) RCA SOUNDTAPE MAGAZINE LOADED LARGE CASSETTE TAPES- 0 Bids $24.99
> $125.00
> +$10.00 2d 12h 47m
> =A0STANDARD BRAND AM/FM STEREO TUNER-VINTAGE COMPONENT-$$$ 0 Bids $9.98
> +$15.00 3d 12h 47m
> =A0WIPER MOTOR LINKAGE-GTO-CHEVELLE-GRAN SPORT-442-SKYLARK
> CUTLASS-F85-SPECIAL-JUDGE-GT37-T37-MALIBU-SS396-SS454-$ 0 Bids $9.98
> +$10.00 3d 12h 47m
> =A0VINTAGE ASTATIC D-104 MIC w/UG8 CHROME STAND-classic-$$ 2 Bids $10.50
> +$10.00 3d 12h 47m
> =A0STEWART-WARNER MOD 07-5R5 ANTIQUE TUBE WOODEN RADIO-old 0 Bids $24.99
> +$20.00 3d 12h 47m
> =A0VINTAGE LIONEL-MULTI CONTROL TRAINMASTER TRANSFORMER-$$
> 25 VOLT OUTPUT w/ WHISTLE, DIRECTION, SPEED CONTROLS-VG 0 Bids $24.99
> +$15.00 3d 12h 47m
> =A0VINTAGE RCA MODEL MI-12016G MICROPHONE w/CORD-rare-$$$$ 3 Bids $11.01
> +$10.00 3d 12h 47m
> =A0(3) VINTAGE WALKIE-TALKIE CB RADIOS-ASSORTED MAKES-$$$$ 0 Bids $9.98
> +$10.00 3d 12h 47m
> =A0ANTIQUE WOODEN ASTATIC TV STATION CONTROLLER-1940-50's- 0 Bids $9.98

> +$10.00 3d 11h 13m
> =A0BENDIX SAPPHIRE II ANTIQUE CAR RADIO-WHITE BUTTONS-part 2 Bids $10.98
> +$10.00 3d 12h 47m
> =A0JULIETTE TOPPLAY CARTRIDGE PLAYER-2 TRACK ENDLESS LOOP-
> SIMILAR TO PLAYTAPE-RARE VINTAGE AUDIO FORMAT PLAYER-$$ 0 Bids $9.98
> +$10.00 3d 12h 47m
> =A0SPORTSMAN GREAT LAKES TRADE BAITCAST REEL-ANTIQUE-old-$ 1 Bid $9.98
> +$10.00 3d 12h 47m
> =A0ZENITH LONG DISTANCE WAVE MAGNET SUITCASE TUBE RADIO-$$ 0 Bids $24.99
> +$25.00 2d 12h 47m
> =A0RCA M1-12115-A VINTAGE AM/FM RECEIVER-MONO TUBE AMPED-$ 0 Bids $9.98
> +$20.00 4d 12h 47m
> =A0FIRESTONE MODEL S-7403-3 WOOD RADIO-TUBES-parts/fix-$$$ 0 Bids $24.99
> +$25.00 2d 12h 47m
> =A0MUNTZ 4-TRACK CARTRIDGE STEREO TAPE DECK W/MOUNT-NICE-$ 0 Bids $24.99
> $100.00
> +$30.00 2d 12h 47m
> =A0SHOTGUN/RIFLE ? FOREARM STOCK-CHECKERED-FINISHED-#04291 1 Bid $9.98
> +$5.00 4d 12h 47m
> =A0NUMARK HU-235R STUDIO MONITOR HEADPHONES-VINTAGE-parts- 0 Bids $9.98
> +$10.00 4d 12h 47m
> =A01965-67 CHEVY CORVETTE VERTICAL PUSHBUTTON RADIO-$$$$$$ 0 Bids $9.98
> +$10.00 4d 12h 47m
> =A01950s BUICK GM SONOMATIC TUBE AMPED DASH RADIO-fix/part 0 Bids $9.98
> +$10.00 4d 12h 47m
> =A0ANTIQUE HAVANA HARBOR CIGAR BOX RADIO-UPMANN-DUNHILL-$$ 0 Bids $9.98
> +$10.00 4d 12h 47m
> =A0STEWART ANTIQUE PHONOGRAPH-EARLY 1900's-parts/restore-$ 0 Bids $24.99
> +$35.00 2d 12h 47m
> =A0RCA SOUNDTAPE MAGAZINE LOADED CASSETTE RECORDER-SCP2-$$
> STEREO SINGLE ENDED TUBE AMP INSIDE W/6V6'S-VINTAGE AMP 1 Bid $99.88
> +$50.00 2d 12h 47m
> =A0VINTAGE DEVRY RF GENERATOR-P/N32000-SERIAL#105-vg cond. 0 Bids $9.98
> +$25.00 4d 12h 47m
> =A0HUGE PANASONIC RS-888S QUAD RECEIVER-8TRACK-CASSETTE-$$
> RECORD/PLAY STEREO/QUAD 8TRACK/CASSETTE-120/220 VOLTS-$ 0 Bids $49.98
> +$35.00 4d 12h 47m
> =A0OLD LAFAYETTE COMSTAT-25 CITIZENS BAND TRANSCEIVER-TUBE 0 Bids $24.99
> +$20.00 4d 12h 47m
> =A0(2) OEM GM CHEVROLET PUSHBUTTON RADIOS-1960's-CHROME-$$ 0 Bids $9.98
> +$20.00 4d 12h 47m
> =A0(2) 1964 DODGE DELUXE RADIOS w/PLASTIC DASH PLATE BEZEL
> "ALL TRANSISTOR" PUSHBUTTON RADIOS-413-426HEMI-440-$$$$ 0 Bids $24.99
> +$20.00 4d 12h 47m
> =A0SILVERTONE MODEL 7104 ANTIQUE WOOD RADIO w/tubes-NICE-$ 0 Bids $24.99
> +$35.00 3d 12h 47m
> =A0LAFAYETTE MODEL HB-111 VINTAGE TUBE AMPED CB RADIO-$$$$ 0 Bids $9.98
> +$25.00 3d 12h 47m
> =A0AIR KING MODEL 4602 WOODEN RADIO W/TUBES-parts/restore- 0 Bids $24.99
> +$35.00 3d 12h 47m
> =A0RCA VICTOR MOD. 96T7 WOODEN RADIO W/TUBES-PARTS/RESTORE 0 Bids $24.99
> +$35.00 3d 12h 47m
> =A0ADMIRAL MOD.6RT43A-5B1A radio/phono-vintage-tubes-78rpm 0 Bids $24.99

> +$35.00 3d 12h 47m
> =A0HEATHKIT VIBRATION TESTER MODEL VT-1 VINTAGE-antique-$$ 1 Bid $9.98
> +$15.00 3d 12h 47m
> =A0(2) MINIATURE VINTAGE RADIO/PHONOGRAPHS-VG CONDITION-$$ 0 Bids $24.99
> +$25.00 3d 12h 47m
> =A0VINTAGE SONY MINI TRANSISTOR RADIO-CRAIG CASSETTE-MORE- 0 Bids $9.98
> +$20.00 4d 12h 47m
> =A0(2) AIWA PORTABLE 2-TRACK R2R RECORDERS-TP703-TP705-$$$ 0 Bids $24.99
> +$35.00 4d 12h 47m
> =A0VINTAGE RCA MODEL NINE CITIZENS BAND TRANSCEIVER-TUBES- 1 Bid $9.98
> +$20.00 4d 15h 47m
> =A0HEATHKIT PRECISION FIELD STRENGTH CRYSTAL TUNE WAVE-??
> SOME SORT OF ANTENNA BOOSTER/HOMING DEVICE-L@@K-$$$$$$$ 0 Bids $9.98
> +$25.00 4d 12h 47m
> =A0SILVERTONE STEREO SINGLE ENDED TUBE AMP w/REVERB UNIT-$
> 2)12AX7's drive 2)6BQ5's w/FACEPLATE-KNOBS-CORDS-TUBES- 0 Bids $149.88
> $300.00
> +$40.00 9d 12h 47m
> =A03 INTERNATIONAL SILVER CO FLAGSHIP ANGLED ANTIQUE FORKS 0 Bids $9.98
> +$5.00 9d 12h 47m
> =A0TEXTRON DUAL BEAM OSCILLOSCOPE MODEL N180 DUAL BEAM-$$$ 0 Bids $24.99
> +$150.00 9d 12h 47m

HUGE lot antique radios-estate clearance

updated list

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZ66Q2dcatalina

```
16 TAPES LOT 4-TRACK CARTRIDGES-SINATRA-PETER,PAUL,MARY     1 $24.99
 Free 1d 14h 24m
 WWII SIGNAL CORPS LANTERN-U.S.ARMY-MX290GV-VINTAGE-$$$$     -
 $24.99
$45.00
 Free 1d 14h 24m
  (2) SCOTCH 10" DIAMETER, 1/4" WIDE MAGNETIC TAPE REELS-     -
 $9.98
$15.00
 Free 9d 14h 24m
 PHILCO MODEL 66 WOODEN TOMBSTONE ANTIQUE RADIO-TUBES-$$     -
 $49.98
$250.00
 $40.00  1d 14h 24m
 ANTIQUE CUNNINGHAM WOOD RADIO w/TUBES-parts/fix/restore     1 $24.99
 $20.00  1d 14h 24m
 PHILCO VINTAGE BAKELITE TELEVISION BOOSTER BOX-COMPLETE     - $9.98
 $10.00  1d 14h 24m
 AMPEX MICRO 85 STEREO CASSETTE RECORDER-INTEGRATED AMP-
MADE IN AUSTRIA-VINTAGE HIGH END DECK w/120 VAC MOTOR-$
    -
 $24.99
$50.00
 $20.00  1d 14h 24m
 1930's WOODEN RADIO CATHEDRAL EXTERNAL SPEAKER-ANTIQUE-     1 $24.99
 $20.00  1d 14h 24m
 (6) RCA SOUNDTAPE MAGAZINE LOADED LARGE CASSETTE TAPES-     -
 $24.99
$125.00
 $10.00  1d 14h 24m
 LOT OF (14) OLD PLASTIC-BAKELITE-ANTIQUE TUBE RADIOS-$$     - $99.88
 $100.00  1d 14h 24m
 ANTIQUE WOODEN ASTATIC TV STATION CONTROLLER-1940-50's-     - $9.98
 $10.00  2d 12h 50m
 VINTAGE RCA MODEL MI-12016G MICROPHONE w/CORD-rare-$$$$     4 $20.50
 $10.00  2d 14h 24m
 (3) VINTAGE WALKIE-TALKIE CB RADIOS-ASSORTED MAKES-$$$$     - $9.98
 $10.00  2d 14h 24m
 VINTAGE LIONEL-MULTI CONTROL TRAINMASTER TRANSFORMER-$$
25 VOLT OUTPUT w/ WHISTLE, DIRECTION, SPEED CONTROLS-VG
    - $24.99
 $15.00  2d 14h 24m
 STANDARD BRAND AM/FM STEREO TUNER-VINTAGE COMPONENT-$$$     - $9.98
 $15.00  2d 14h 24m
 STEWART-WARNER MOD 07-5R5 ANTIQUE TUBE WOODEN RADIO-old     1 $24.99
 $20.00  2d 14h 24m
 SPORTSMAN GREAT LAKES TRADE BAITCAST REEL-ANTIQUE-old-$     1 $9.98
 $10.00  2d 14h 24m
 WIPER MOTOR LINKAGE-GTO-CHEVELLE-GRAN SPORT-442-SKYLARK
CUTLASS-F85-SPECIAL-JUDGE-GT37-T37-MALIBU-SS396-SS454-$
    - $9.98
 $10.00  2d 14h 24m
 BENDIX SAPPHIRE II ANTIQUE CAR RADIO-WHITE BUTTONS-part     2 $10.98
 $10.00  2d 14h 24m
 VINTAGE ASTATIC D-104 MIC w/UG8 CHROME STAND-classic-$$     2 $10.50
 $10.00  2d 14h 24m
 JULIETTE TOPPLAY CARTRIDGE PLAYER-2 TRACK ENDLESS LOOP-
SIMILAR TO PLAYTAPE-RARE VINTAGE AUDIO FORMAT PLAYER-$$
    - $9.98
 $10.00  2d 14h 24m
 (2) 1964 DODGE DELUXE RADIOS w/PLASTIC DASH PLATE BEZEL
"ALL TRANSISTOR" PUSHBUTTON RADIOS-413-426HEMI-440-$$$$
    - $24.99
 $20.00  3d 14h 24m
 VINTAGE DEVRY RF GENERATOR-P/N32000-SERIAL#105-vg cond.     - $9.98
 $25.00  3d 14h 24m
 OLD LAFAYETTE COMSTAT-25 CITIZENS BAND TRANSCEIVER-TUBE     - $24.99
 $20.00  3d 14h 24m
 ANTIQUE HAVANA HARBOR CIGAR BOX RADIO-UPMANN-DUNHILL-$$     - $9.98
 $10.00  3d 14h 24m

 1965-67 CHEVY CORVETTE VERTICAL PUSHBUTTON RADIO-$$$$$$     - $9.98
 $10.00  3d 14h 21m
 NUMARK HU-235R STUDIO MONITOR HEADPHONES-VINTAGE-parts-     - $9.98
 $10.00  3d 14h 21m
 SHOTGUN/RIFLE ? FOREARM STOCK-CHECKERED-FINISHED-#04291     1 $9.98
 $5.00  3d 14h 21m
 HUGE PANASONIC RS-888S QUAD RECEIVER-8TRACK-CASSETTE-$$
RECORD/PLAY STEREO/QUAD 8TRACK/CASSETTE-120/220 VOLTS-$
    - $49.98
 $35.00  3d 14h 21m
 1950s BUICK GM SONOMATIC TUBE AMPED DASH RADIO-fix/part     - $9.98
 $10.00  3d 14h 21m
 RCA M1-12115-A VINTAGE AM/FM RECEIVER-MONO TUBE AMPED-$     - $9.98
 $20.00  3d 14h 21m
 (2) OEM GM CHEVROLET PUSHBUTTON RADIOS-1960's-CHROME-$$     - $9.98
 $20.00  3d 14h 21m
 SILVERTONE STEREO SINGLE ENDED TUBE AMP w/REVERB UNIT-$
2)12AX7's drive 2)6BQ5's w/FACEPLATE-KNOBS-CORDS-TUBES-
    -
 $149.88
$300.00
 $40.00  8d 14h 21m
 3 INTERNATIONAL SILVER CO FLAGSHIP ANGLED ANTIQUE FORKS     - $9.98
 $5.00  8d 14h 21m
 MAGNAVOX COLLARO MODEL TP264C ANTIQUE TUBE PHONOGRAPH-$     - $24.99
 $45.00  8d 14h 21m
  CHRYSLER CARTER 4-BARREL AVS CARBURETOR 4682S 3548 95-$
SUPER BEE-ROADRUNNER-383 HP MAGNUM-750 CFM-MUSCLECARB-$
    - $24.99
 $15.00  9d 14h 21m
  (2) VINTAGE CRAFTSMAN AIR PAINT SPRAY GUNS-pressurefeed     - $9.98
 $10.00  9d 14h 21m
 ZENITH LONG DISTANCE WAVE MAGNET SUITCASE TUBE RADIO-$$     - $24.99
 $25.00  1d 14h 21m
 MUNTZ 4-TRACK CARTRIDGE STEREO TAPE DECK W/MOUNT-NICE-$     -
 $24.99
$100.00
 $30.00  1d 14h 21m
 STEWART ANTIQUE PHONOGRAPH-EARLY 1900's-parts/restore-$     - $24.99
 $35.00  1d 14h 21m
 FIRESTONE MODEL S-7403-3 WOOD RADIO-TUBES-parts/fix-$$$     - $24.99
 $25.00  1d 14h 21m
 RCA SOUNDTAPE MAGAZINE LOADED CASSETTE RECORDER-SCP2-$$
STEREO SINGLE ENDED TUBE AMP INSIDE W/6V6'S-VINTAGE AMP
    1 $99.88
 $50.00  1d 14h 21m
 LAFAYETTE MODEL HB-111 VINTAGE TUBE AMPED CB RADIO-$$$$     - $9.98
 $25.00  2d 14h 21m
 AIR KING MODEL 4602 WOODEN RADIO W/TUBES-parts/restore-     - $24.99
 $35.00  2d 14h 21m
 RCA VICTOR MOD. 96T7 WOODEN RADIO W/TUBES-PARTS/RESTORE     - $24.99
 $35.00  2d 14h 21m
 HEATHKIT VIBRATION TESTER MODEL VT-1 VINTAGE-antique-$$     1 $9.98
 $15.00  2d 14h 21m
 SILVERTONE MODEL 7104 ANTIQUE WOOD RADIO w/tubes-NICE-$     - $24.99
 $35.00  2d 14h 21m
 ADMIRAL MOD.6RT43A-5B1A radio/phono-vintage-tubes-78rpm     - $24.99
 $35.00  2d 14h 21m
 (2) MINIATURE VINTAGE RADIO/PHONOGRAPHS-VG CONDITION-$$     - $24.99
```

$25.00 2d 14h 21m
HEATHKIT PRECISION FIELD STRENGTH CRYSTAL TUNE WAVE-??
SOME SORT OF ANTENNA BOOSTER/HOMING DEVICE-L@@K-$$$$$$$
- $9.98
$25.00 3d 14h 21m

(2) AIWA PORTABLE 2-TRACK R2R RECORDERS-TP703-TP705-$$$ - $24.99
$35.00 3d 14h 20m
VINTAGE SONY MINI TRANSISTOR RADIO-CRAIG CASSETTE-MORE-   - $9.98
$20.00 3d 14h 20m
VINTAGE RCA MODEL NINE CITIZENS BAND TRANSCEIVER-TUBES-   1 $9.98
$20.00 3d 17h 20m
WARDS AIRLINE 62-479, GRIGSBY-GRUNOW MAJESTIC 20-radios
PHILCO MODELS 48-1262, 46-1209-ANTIQUE AM/SW COLLECTION
-
$499.88
$900.00
Pickup only 8d 14h 20m
TEXTRON DUAL BEAM OSCILLOSCOPE MODEL N180 DUAL BEAM-$$$ - $24.99
$150.00 8d 14h 20m

updated list

From 8734777864867919611
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From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: SOLA Power supplies
Date: Sun, 27 Jul 2008 04:40:12 -0700 (PDT)
Organization: http://groups.google.com
Lines: 10
Message-ID: <0ab4170d-4c13-409c-a627-d23cd05e9739@79g2000hsk.googlegroups.com>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1217158812 9963 127.0.0.1 (27 Jul 2008 11:40:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 27 Jul 2008 11:40:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 79g2000hsk.googlegroups.com; posting-host=204.108.8.5;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:404

I have a few SOLA brick type power supplies that were given to me. I am looking for schematics so I can repair them. On some the problems were pretty obvious. Bad filter caps, rectifiers pass transistors. These were easy to repair. I suspect they are all type 723 regulator based but I am not absolutely sure as one power supply has an IC that is clearly an op-amp, this does not appear to be an origonal chip. Other power supplies have parts missing. Any help would be greatly appreciated.

Jimmie.

```
From -2324446680588816792
X-Google-Thread: fc2a5,4578de0336539c39,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
x41g2000hsb.googlegroups.com!not-for-mail
From: Travis <TravisCurrier@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: SMA Male to Type N Male, RG-223/U, 6 inches, Cable Assembly,
Date: Mon, 28 Jul 2008 11:58:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <d946d6b0-729d-44c2-bdf4-13c4992fb1e9@x41g2000hsb.googlegroups.com>
NNTP-Posting-Host: 72.54.251.178
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1217271485 14504 127.0.0.1 (28 Jul 2008 18:58:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 28 Jul 2008 18:58:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x41g2000hsb.googlegroups.com; posting-host=72.54.251.178;
     posting-account=DlP5YwoAAABdjm_DJzoZgY1pnXMYD7rO
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.1)
     Gecko/2008070208 Firefox/3.0.1,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:405
```

FA: 4 BRAND NEW AAA RF Products SMA Male to Type N Male Cable Assembly using Military Type Double Shielded, Silver Plated RG-223/U Coax 6 inches Long. Assembled in the USA. AAA RF Part Number AAA1058-6

http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&ssPageName=STRK:MESELX:IT&item=190239295615

For complete CATALOG Go to.

http://www.aaarfproducts.com/catalog/AARFBROCHURE01-08.pdf

Travis Currier

```
From -1488127400522834244
X-Google-Thread: fc2a5,55efe9c0574c55d2,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i24g2000prf.googlegroups.com!not-for-mail
From: bala <ragavan.cs@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: free laptops computers go to website view
Date: Tue, 29 Jul 2008 06:14:31 -0700 (PDT)
Organization: http://groups.google.com
Lines: 1
Message-ID: <669c85a7-e42d-4370-8c4d-8b4c67bcf2b1@i24g2000prf.googlegroups.com>
NNTP-Posting-Host: 210.211.182.44
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1217337272 15101 127.0.0.1 (29 Jul 2008 13:14:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 29 Jul 2008 13:14:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i24g2000prf.googlegroups.com; posting-host=210.211.182.44;
     posting-account=8h9y7QoAAABZJqmsK51lAm5FqdXwWwAz
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; IEMB3;
     IEMB3),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:406

http://www.healthnews5.blogspot.com/



From 5994711217251110723
X-Google-Thread: fc2a5,b6dea8ad82b9d17c,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!j22g2000hsf.googlegroups.com!not-for-mail
From: Travis <TravisCurrier@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: 5 Type N Male to N Male RG-400/U 15 inches
Date: Tue, 29 Jul 2008 09:14:31 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <7951d1cb-56bc-4ea2-a5fb-b684cb09f805@j22g2000hsf.googlegroups.com>
NNTP-Posting-Host: 72.54.251.178
Mime-Version: 1.0
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Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1217348072 16360 127.0.0.1 (29 Jul 2008 16:14:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 29 Jul 2008 16:14:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j22g2000hsf.googlegroups.com; posting-host=72.54.251.178;
     posting-account=DlP5YwoAAABdjm_DJzoZgY1pnXMYD7rO
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.1)
     Gecko/2008070208 Firefox/3.0.1,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:407

FA: 5 Type N Male to N Male RG-400/U 15 inches

http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&ssPageName=STRK:MESELX:IT&item=190239297654


For complete CATALOG Go to.

http://www.aaarfproducts.com/catalog/AARFBROCHURE01-08.pdf


Travis Currier
AAA RF Products
Phone: 949-481-3154
Email:sales@aaarfproducts.com
Website: www.aaarfproducts.com
Location: San Clemente, CA


From -8557646740197045171
X-Google-Thread: fc2a5,52166f3ca3c3a148,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l42g2000hsc.googlegroups.com!not-for-
mail
From: Travis <TravisCurrier@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: 2 BNC Male to Alligator Clips RG-58C/U, 60 inch,
Date: Tue, 29 Jul 2008 16:13:47 -0700 (PDT)
Organization: http://groups.google.com
Lines: 21
Message-ID: <4eb53b9b-9ad0-4f78-b56f-8c994add08bb@l42g2000hsc.googlegroups.com>
NNTP-Posting-Host: 72.54.251.178
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1217373228 31094 127.0.0.1 (29 Jul 2008 23:13:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 29 Jul 2008 23:13:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
```

```
Injection-Info: l42g2000hsc.googlegroups.com; posting-host=72.54.251.178;
     posting-account=DlP5YwoAAABdjm_DJzoZgY1pnXMYD7rO
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.1)
     Gecko/2008070208 Firefox/3.0.1,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:408
```

FA: 2 BNC Male to Alligator Clips RG-58C/U, 60 inch,

Please Follow Auction Link:
http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&ssPageName=STRK:MESELX:IT&item=190240425020

For complete CATALOG Go to.

http://www.aaarfproducts.com/catalog/AARFBROCHURE01-08.pdf

Please Email me if you want to be added to our mailing list to receive
quarterly Catalogs

Travis Currier
AAA RF Products
Phone: 949-481-3154
Email:sales@aaarfproducts.com
Website: www.aaarfproducts.com
Location: San Clemente, CA

```
From -4325274961610108014
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!t54g2000hsg.googlegroups.com!not-for-
mail
From: Tom <holden_family@sympatico.ca>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Tue, 29 Jul 2008 20:14:43 -0700 (PDT)
Organization: http://groups.google.com
Lines: 34
Message-ID: <1033a23b-2c66-49ca-bb98-5703be6a2706@t54g2000hsg.googlegroups.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
     <jZX1k.2010$nD3.912@newsfe15.lga>
<57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
     <86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
     <i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com> <75671283-a0ce-469c-
a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
     <sl1154du7jqb1g99kin78cssmsods2dqjg@4ax.com>
```

```
<zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
     <c2363b23-32a8-4578-b3f2-e9ee71eeb050@d1g2000hsg.googlegroups.com>
     <CY6CqrA2ZRUIFwKg@g3ohx.demon.co.uk> <28149a87-09f2-4778-
aece-7533b162308f@34g2000hsh.googlegroups.com>
NNTP-Posting-Host: 76.67.13.82
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1217387684 11300 127.0.0.1 (30 Jul 2008 03:14:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 30 Jul 2008 03:14:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t54g2000hsg.googlegroups.com; posting-host=76.67.13.82;
     posting-account=dSeW1wgAAACmKsq9OPblBZ8hpo9AeSuQ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.cb:1239 rec.radio.amateur.equipment:414
rec.radio.amateur.homebrew:409
```

On Jun 12, 11:35=A0am, Telstar Electronics <briangrif...@sbcglobal.net>
wrote:

> > As I said. "Obviously they have to contain 'all the works' (oscillator,
> > balanced modulator, compressor, clipper, filters, balanced demodulator
> > etc)."
>
> That sounds very complex and expensive all right.
> Another problem I see is that they only work on SSB.
> My customers insist on something small that fits inside the radio and
> processes in all modes. The VoiceMax does that with less than 1% THD.
> Can't build them fast enough to keep them in stock...

DF4ZS developed a RF speech clipper that fits into the Yaesu MH-31 microphone shell. This mic is used with the popular, tiny FT-817 transceiver along with others and in all speech modes. His clipper has a SSB IF.

Details: http://jwm.de/afu/0ft817eng.htm
Reviews: http://www.eham.net/reviews/detail/2732 (6)

There are no reviews of the VoiceMax on eham.net while there are 21 of the W4RT Electronics "One Big Punch" which uses a similar IC and can be installed either in the MH-31 or inside the case of the FT-817 et al.

DF4ZS also makes an outboard RF Clipper with adjustable a.f. compression and integrated noise gate.

If you don't mind tying up a computer to do your speech processing, VE3NEA developed freeware to work with a soundcard between the mic and the transmitter that functions as bandpass filter, 7-band equalizer, noise gate, compressor, and RF envelope clipper. http://www.dxatlas.com/VSh=
aper/

```
From 6374507196767195451
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!e39g2000hsf.googlegroups.com!not-for-
mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Wed, 30 Jul 2008 05:03:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <8f09fc76-04c8-4d98-85db-2db433e50f3c@e39g2000hsf.googlegroups.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
     <jZX1k.2010$nD3.912@newsfe15.lga>
<57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
     <86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
     <i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com> <75671283-a0ce-469c-
a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
     <sl1154du7jqb1g99kin78cssmsods2dqjg@4ax.com>
<zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
     <c2363b23-32a8-4578-b3f2-e9ee71eeb050@d1g2000hsg.googlegroups.com>
     <CY6CqrA2ZRUIFwKg@g3ohx.demon.co.uk> <28149a87-09f2-4778-
aece-7533b162308f@34g2000hsh.googlegroups.com>
     <1033a23b-2c66-49ca-bb98-5703be6a2706@t54g2000hsg.googlegroups.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1217419411 20438 127.0.0.1 (30 Jul 2008 12:03:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 30 Jul 2008 12:03:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e39g2000hsf.googlegroups.com; posting-host=216.203.30.4;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.cb:10271 rec.radio.amateur.equipment:2778
rec.radio.amateur.homebrew:2861
```

On Jul 29, 10:14=A0pm, Tom <holden_fam...@sympatico.ca> wrote:

> DF4ZS developed a RF speech clipper that fits into the Yaesu MH-31
> microphone shell. This mic is used with the popular, tiny FT-817
> transceiver along with others and in all speech modes. His clipper has
> a SSB IF.
>
> Details:http://jwm.de/afu/0ft817eng.htm
> Reviews:http://www.eham.net/reviews/detail/2732(6)

>
> There are no reviews of the VoiceMax on eham.net while there are 21 of
> the W4RT Electronics "One Big Punch" which uses a similar IC and can
> be installed either in the MH-31 or inside the case of the FT-817 et
> al.
>
> DF4ZS also makes an outboard RF Clipper with adjustable a.f.
> compression and integrated noise gate.

This DF4ZS is a clipping type processor... nothing like the VoiceMax
audio compressor. You are correct, Since VoiceMax is a new product and
there are only about 150 units in use worldwide... so far there are no
reviews on Eham. Thanks for your interesting comments.
www.telstar-electronics.com

```
From 2316695038834135559
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!npeer02.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad.highwinds-
media.com!newsfe06.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
<jZX1k.2010$nD3.912@newsfe15.lga> <57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
<86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
<i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com> <75671283-a0ce-469c-
a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
<sl1154du7jqb1g99kin78cssmsods2dqjg@4ax.com> <zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
<c2363b23-32a8-4578-b3f2-e9ee71eeb050@d1g2000hsg.googlegroups.com>
<CY6CqrA2ZRUIFwKg@g3ohx.demon.co.uk> <28149a87-09f2-4778-
aece-7533b162308f@34g2000hsh.googlegroups.com> <1033a23b-2c66-49ca-
bb98-5703be6a2706@t54g2000hsg.googlegroups.com>
<8f09fc76-04c8-4d98-85db-2db433e50f3c@e39g2000hsf.googlegroups.com>
Subject: Re: VoiceMax Speech Processor...
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <CO7kk.1134$3l5.125@newsfe06.iad>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe06.iad 1217464610 72.209.25.33 (Thu, 31 Jul 2008 00:36:50 UTC)
NNTP-Posting-Date: Thu, 31 Jul 2008 00:36:50 UTC
Organization: Cox
Date: Wed, 30 Jul 2008 20:36:26 -0400
Xref: g2news2.google.com rec.radio.cb:10275 rec.radio.amateur.equipment:2779
```

rec.radio.amateur.homebrew:2862

"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message This
DF4ZS is a clipping type processor... nothing like the VoiceMax
audio compressor.

That is true. SSB RF clipping is proven to deliver an honest 6 dB
improvement.

```
From -3833635356145229691
X-Google-Thread: fc2a5,159e89eb30c84677,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z6g2000pre.googlegroups.com!not-for-
mail
From: hpeeeter5@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: ONLINE RESOURCE FOR HELP DESK SOFTWARE
Date: Thu, 31 Jul 2008 04:28:21 -0700 (PDT)
Organization: http://groups.google.com
Lines: 5
Message-ID: <98289208-cd13-46ff-938f-262029ab2e83@z6g2000pre.googlegroups.com>
NNTP-Posting-Host: 117.197.194.213
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1217503701 5066 127.0.0.1 (31 Jul 2008 11:28:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 31 Jul 2008 11:28:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z6g2000pre.googlegroups.com; posting-host=117.197.194.213;
     posting-account=Y0mWkwoAAAA5bUP3t-fJXl-TvQ55zBE7
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:412
```

ONLINE RESOURCE FOR HELP DESK SOFTWARE

^^

http://helpdesksoftwaremanagement.blogspot.com

```
From -4228699963266890580
X-Google-Thread: 10f7a7,89c93a4510653fc8,start
X-Google-Thread: 114aac,89c93a4510653fc8,start
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 10bf43,89c93a4510653fc8,start
```

```
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes:
gid10f7a7,gid114aac,gid106d41,gid10bf43,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news2.google.com!postnews.google.com!
59g2000hsb.googlegroups.com!not-for-mail
From: "KnobGobblerMorkie@Mail2Princess.Com" <KnobGobblerMorkie@mail2princess.com>
Newsgroups:
alt.usenet.kooks,rec.radio.shortwave,rec.radio.cb,rec.radio.amateur.policy,rec.rad
io.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Sun, 3 Aug 2008 14:19:24 -0700 (PDT)
Organization: http://groups.google.com
Lines: 269
Message-ID: <c13d99b5-d12d-402b-ad30-ac866cf33622@59g2000hsb.googlegroups.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
     <jZX1k.2010$nD3.912@newsfe15.lga>
<57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
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<zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
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     <CY6CqrA2ZRUIFwKg@g3ohx.demon.co.uk> <28149a87-09f2-4778-
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     <8f09fc76-04c8-4d98-85db-2db433e50f3c@e39g2000hsf.googlegroups.com>
     <CO7kk.1134$3l5.125@newsfe06.iad>
NNTP-Posting-Host: 64.12.116.209
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1217798365 25835 127.0.0.1 (3 Aug 2008 21:19:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 3 Aug 2008 21:19:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 59g2000hsb.googlegroups.com; posting-host=64.12.116.209;
     posting-account=AoNXEgoAAAD1O4XITyjCTWndwttP8YLh
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.1; AOLBuild
     4334.34; Windows NT 6.0; SLCC1; .NET CLR 2.0.50727; .NET CLR
     3.0.04506),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-mtc-ta08.proxy.aol.com[400C7008] (Prism/1.2.1), HTTP/1.1
     cache-mtc-ad15.proxy.aol.com[400C74D1] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com alt.usenet.kooks:43328 rec.radio.shortwave:8219
rec.radio.cb:1321 rec.radio.amateur.policy:5961 rec.radio.amateur.homebrew:413
```

On Jul 30, 7:36=EF=BF=BDpm, "Tio Pedro" <radioconnect...@cox.net> wrote:
> "Telstar Electronics" <briangrif...@sbcglobal.net> wrote in message =EF=
=BF=BDThis
>

> DF4ZS is a clipping type processor... nothing like the VoiceMax
> audio compressor.
>
> That is true. =EF=BF=BDSSB RF clipping is proven to deliver an honest 6 d=
B
> improvement.

Remember way back when this was posted?
Dam..... I wish YZ the great one was still posting here!!

<PROCEEDING> 98-143
<DATE> 11.27.98
<NAME> STEVEN JAMES ROBESON
<ADDRESS1> HCR65 BOX 572
<ADDRESS2> POB 2103
<CITY> DUNLAP
<STATE> TN
<ZIP> 37327
<LAW FIRM> NONE
<ATTORNEY> NONE
<FILE NUMBER> NONE
<DOCUMENT-TYPE> CO
<CONFIDENTIAL> N
<PHONE NUMBER> (???) -???-????
<DESCRIPTION> Comments on WT 98-143
<NOTIFY> erlpnk...@aol.com
<TEXT>

To the Members of the Commission Assembled:

I am Steven Robeson. I have been a licensee in the Amateur Radio Service since 1972 and am presently the licensee of Amateur Radio Station K4YZ and hold an Amateur Extra Class Operators license. I comment to you today on the matter of WT 98-143.

There can be no doubt that there has been quantum leaps in the field of radiocommunication since the last major rewrite of Part 97. This includes the "Incentive Licensing" system that was implemented in the late 1960's. It is clearly time to change the system.

The Commission has solicited comments relative to that circumstance, and I hope the following will be considered in that act.

First of all, I would like to wholeheartedly approve of the concept of reducing the number of Amateur License classes from six to four. There is much confusion as to "who's who" as it is now, and a reduction in the licensing process would alleviate that disparity. As such, I envision the following as being appropriate for said restructuring:

Amateur Class D: The Amateur Class D license would become the de facto "entry class" license for the Amateur Service. In light of the grossly decreased demand for the Novice License and reduced useage of the sub-bands allocated for thier use, I would deactivate it as the "entry class" licenese. The Class D License would for all intents and purposes be the same as the current "Codeless Technician" class license. The examination for this license would remove questions pertaining to HF (1.8 to 30 MHZ) theory and operation, and be strictly limited to matters pertaining to VHF/UHF theory and operation, regulatory matters and Amateur practice. All Amateur privileges above 30 MHZ would be conveyed to the successful applicant.

Amateur Class C: The Class C license would be the entry level license for operation on the HF spectrum. It would require the successful applicant either hold a Class D license, or successfully complete the Class D examination in addition to an examination on basic HF theory, propagation and practice. It would also require an examination in proficiency in the sending and receiving of Morse Code at a speed of not more than 5 (five) words per minute. Persons presently holding a Novice Class License or Technician Plus license would be grandfathered into this class of license, except that they would be required to take a 20 question open book examination at a VE Testing Session on the privileges and restrictions of the Class C License prior to utilizing those privileges. Allocations would include those presently enjoyed by the Amateur General Class licensee except for operation of the 160, 30, 17 and 12 meter bands.

Class B: The Class B license would incorporate the present Amateur General and Amateur Advanced license. All amateur priviledges as are presently enjoyed by the Amateur Advanced would be authorized with Amateur General's being grandfathered into Class B. New licensee's would be required to pass a written examination on advanced radio frequency technology, amateur practice, regulations and an examination in proficiency in the sending and receiving of Morse Code at a rate of not more than 12 (twelve) words per minute. This would be consistent with the present CEPT program, which the United States is presently negotiating membership in. Additional frequency allocations would be authorized by the "refarming" of the subbands presently allocated to the Novice Class, and divided with the Class A license.

Class A: The Amateur Class A would convey all Amateur operating privileges to the successfull applicant. Present subband authorizations enjoyed in the "CW" bands would be unchanged and new exclusive phone allocations for the Class A would be "refarmed" from the deactivated Novice license and by rellocating from the "high" end of present CW allocations where operation is sparse. A quick scanning of those portions of the spectrum will demonstrate that minimal use is made of this portion of the authorized allocations and reallocation to "phone" or other "wideband" emission types is reasonable.

The Class A applicant will demonstrate advance/expert level knowledge of RF technology and Amateur practice. No additional Morse Code examination would be required.

To further simplify the administrative process of the Commission, I would discontinue the present "sequential" callsign system. Upon successful passing of the requirements for an Amateur Examination, the applicant would be issued a "2 by 3" callsign (ie: KA4AAA) by the Commission. Those wishing to specifically select a callsign of a particular format would be provided that opportunity by the "Vanity" callsign system. The Commission would specify those formats of callsigns permitted by class, but it would be up to the applicant to chose the desired call, and appropriate fee paid for the privilege of obtaining said call.

As for the occassionally emotional debate on the retention of the Morse Code requirement, I am steadfastly in favor of retention of the use of Morse Code and demonstration of it's use for the Amateur Service. Among it's prouder traditions has been the Amateur's ability to communicate across international boarders and foster communication between citizens in countries which may not have a common language in which to conduct that communication. Morse Code is the "common denominator" in international communications and should be retained.

As for the arguement that more efficient or reliable methods of communication exist, it is a time proven fact that the simplicity of Morse Code systems has allowed us to communicate with portions of the world that cannot enjoy the same level of access to technology that we as American's enjoy.

And to echo the comments of another commentor to these proceedings, I would like to express my concern over the decline of the overall technical skill and knowledge of the average Amateur. I firmly believe that this is the direct result of the publishing of Amateur Radio question and answer test pools in the public domain. I feel it is as rediculous a concept as for our schools to prepublish the questions and answers of mid-terms and finals. Closing the pools except to the VEC's, the Commission, and an independent oversight committee approved by the Commission would go a long way towards ensuring that the successful applicant has a minimal and sufficient retention of the requisite knowledge for an Amateur license.

Lastly, I would consider all of this for naught if the Commission were to fail to make a determined and on-going effort to enforce the rules and regulations as they pertain to the operation of Amatuer Radio Stations. It is an embarrasment that we are as frail as any other subset of human society, and we too have our share of ner'-do-wells and rabble-rousers. But unlike a local "protest" or civil disturbances in one localized area, radiocommunication has the potential of causing a disruption over a massive, if not world-wide area, even when that disruption is perpetrated by only a few "rotten apples". The Amateur Service still prides itself on it's own "self policing" activities, and this activity is unprecedented in any other Service under the Commission's domain, but only so much can be accomplished short of vigilanteism. The Commission's assurance that they will enforce these regulations and back it up with action will be the one greatest action the Commission could take.

Respectfully Submitted,

/s/ Steven James Robeson, LPN
Amateur Radio Staton K4YZ

```
From -6789054643766817397
X-Google-Thread: 10f7a7,89c93a4510653fc8
X-Google-Thread: 114aac,89c93a4510653fc8
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 10bf43,89c93a4510653fc8
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes:
gid10f7a7,gid114aac,gid106d41,gid10bf43,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
f36g2000hsa.googlegroups.com!not-for-mail
From: an old friend <kb9rqz@hotmail.com>
Newsgroups:
alt.usenet.kooks,rec.radio.shortwave,rec.radio.cb,rec.radio.amateur.policy,rec.rad
io.amateur.homebrew
Subject:
zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz
zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz
zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz
zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz
Date: Sun, 3 Aug 2008 15:49:44 -0700 (PDT)
Organization: http://groups.google.com
Lines: 4
Message-ID: <334740c3-1cce-426a-b61b-d3c36f1c3e4f@f36g2000hsa.googlegroups.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
     <jZX1k.2010$nD3.912@newsfe15.lga>
<57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
     <86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
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a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
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<zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
     <c2363b23-32a8-4578-b3f2-e9ee71eeb050@d1g2000hsg.googlegroups.com>
     <CY6CqrA2ZRUIFwKg@g3ohx.demon.co.uk> <28149a87-09f2-4778-
aece-7533b162308f@34g2000hsh.googlegroups.com>
     <1033a23b-2c66-49ca-bb98-5703be6a2706@t54g2000hsg.googlegroups.com>
     <8f09fc76-04c8-4d98-85db-2db433e50f3c@e39g2000hsf.googlegroups.com>
     <CO7kk.1134$3l5.125@newsfe06.iad> <c13d99b5-d12d-402b-ad30-
ac866cf33622@59g2000hsb.googlegroups.com>
NNTP-Posting-Host: 66.82.9.53
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1217803784 10160 127.0.0.1 (3 Aug 2008 22:49:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 3 Aug 2008 22:49:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f36g2000hsa.googlegroups.com; posting-host=66.82.9.53;
     posting-account=hvMD6AoAAADhaR-hQoHk-p7xtiL6xLI9
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
```

1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com alt.usenet.kooks:43373 rec.radio.shortwave:8225
rec.radio.cb:1323 rec.radio.amateur.policy:5967 rec.radio.amateur.homebrew:414

On Aug 3, 5:19=A0pm, "KnobGobblerMor...@Mail2Princess.Com"
<KnobGobblerMor...@mail2princess.com> wrote:
>
fake

From 5993265556284122789
X-Google-Thread: fc2a5,47a6ac25abee98b,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer01.iad.highwinds-media.com!
news.highwinds-media.com!feed-me.highwinds-media.com!post01.iad.highwinds-
media.com!newsfe06.iad.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: 7360 or 6JH8 for first mixer?
Lines: 6
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <4jrlk.3667$3l5.2335@newsfe06.iad>
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X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe06.iad 1217806656 72.209.25.33 (Sun, 03 Aug 2008 23:37:36 UTC)
NNTP-Posting-Date: Sun, 03 Aug 2008 23:37:36 UTC
Organization: Cox
Date: Sun, 3 Aug 2008 19:37:00 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:415

Has anyone tried a 6JH8 in place of a 7360 for the
first mixer in a homebrew RX? How did they compare?

Pete

From 1084920386098352840
X-Google-Thread: fc2a5,398dcadab0fdea13
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 05 Jul 2008 18:01:49 -0500
Date: Sat, 05 Jul 2008 16:01:57 -0700
From: Tim Wescott <tim@seemywebsite.com>

User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: source of crystals for Kenwood transceiver upgrade.
References: <4868c876$1@clear.net.nz> <g4bbcr$c4t$1@news.albasani.net>
<486ef20e@clear.net.nz> <xNGdnY1Xqa0wPvLVnZ2dnUVZ_gCdnZ2d@web-ster.com>
<486ff28e$1@clear.net.nz>
In-Reply-To: <486ff28e$1@clear.net.nz>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <qeidnZXQydzAYPLVnZ2dnUVZ_rXinZ2d@web-ster.com>
Lines: 80
X-Usenet-Provider: http://www.giganews.com
X-Trace:
sv3-0Z7cje01+eQfALuSMMaICyAZyug7rC7ZLKQmyl2AtrgAtgux0dxM5WpgSFhIvsYQ42m4mze+TqfT/
iE!UlxEYS3vx6Mirx884Aq+SzR2mTspCjANhwgYRLZQ5l4dc2uIQFM255GQn/snk0YKwRDHUINRrzaj!
CD+hl/5KAPaM8R8=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:316

cliff wright wrote:
> Tim Wescott wrote:
>> cliff wright wrote:
>>
>>> Steve H wrote:
>>>
>>>> cliff wright wrote:
>>>>
>>>>> Good day all!
>>>>> I have an old Kenwood TS-820 that I've already upgraded somewhat,
>>>>> but I would like to try adding the WARC bands at 10,18 and 24 MHz.
>>>>> The rig only cost me $50 so I was horrified when I discovered that
>>>>> crystals for the job are now priced @ $65 US each + shipping!!!
>>>>> The frequencies aren't very unusual so obviously I am looking for
>>>>> someone who has them available for a more reasonable rate.
>>>>> As it stands it just isn't worth the cost of over $250 NZ.
>>>>> The Xtals are on 15.5 23.5 and 30 MHz and are standard miniature
>>>>> types.
>>>>> If any one can help me out please drop me an Email and let me know
>>>>> how I can pay for them.
>>>>> 73's
>>>>> Cliff Wright ZL1BDA ex G3NIA
>>>>>
>>>>
>>>> Try http://www.quartslab.com/ , they are happy to supply radio
>>>> amateurs and can provide any frequency to order for a fair price.
>>>> (less than $20.00)
>>>>
>>>> Steve H
>>>

>>> Hi Jim, Tim and Steve!
>>> Thanks for the reply. I had of course considered microprocessor
>>> crystals and in the case of the 30.00 MHz one this wasn't a unusual
>>> frequency.
>>> However many units these days come with an integral oscillator.
>>> I had tried several Xtal companies in the US and elsewhere but the
>>> price as I had pointed out was a bit "out of sight" for such an old
>>> rig. Also I have had a lot of trouble with US companies in both my
>>> hobbies, Ham radio and Amateur astronomy with overseas orders.
>>> Owing to the 820s' rather odd IF frequency (~8.3 MHz)the heterodyne
>>> crystals are rather critical if dial and counter calibration is to be
>>> maintained.
>>> Very fortunately however I was contacted by Ric VK7RO in Tasmania who
>>> had both the higher frequency units "gathering dust" from a similar
>>> project and he not only very generously and kindly donated them to me
>>> but pointed me in the direction of an Australian Xtal company who can
>>> make me the 15.5000 Mhz crystal for less than half the US price and
>>> one third the delivery time. I hope to have all the cystals to put
>>> the 820s on 10, 18 and 24 MHz in the next week or so and then will
>>> get the job underway. As I have never worked the WARC bands so far it
>>> will be a new experience for me !!
>>> Regards Cliff Wright ZL1BDA ex G3NIA
>>
>>
>> Cliff, I'm glad you found a source.
>>
>> And going with an in-country company is good for that sort of thing,
>> when you can find it.
>>
> Well, not quite OM. I'm in New Zealamd and about 2,000 Km from Tasmania.
> We are still an independent country so far . Hi!!!
> Cliff

Whoops.

All I know about geography is that the civilized world ends at the
Mississippi river.

Which is what they think in New York, too, but those crazy folks think
that _they're_ in the civilized world!

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From 4792102179518429345

```
X-Google-Thread: fc2a5,e8bf1cccd9fed72a,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
l64g2000hse.googlegroups.com!not-for-mail
From: vk3fasw@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: CTCSS For FDK Multi 7
Date: Sun, 6 Jul 2008 01:57:40 -0700 (PDT)
Organization: http://groups.google.com
Lines: 10
Message-ID: <aa2289ca-f4f1-4acd-bf9f-abdb55f05aa7@l64g2000hse.googlegroups.com>
NNTP-Posting-Host: 220.238.233.96
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1215334660 28438 127.0.0.1 (6 Jul 2008 08:57:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 6 Jul 2008 08:57:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l64g2000hse.googlegroups.com; posting-host=220.238.233.96;
     posting-account=3szGwAoAAAB96-Vzj0-AOItEYMjBLuI7
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9)
     Gecko/2008052906 Firefox/3.0,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:317
```

Our local repeater has just started to use CTCSS and my poor old 2m
Rig has no CTCSS.
Has anyone got a simple circuit for this, also i think i will need a
circuit diargam for the radio. It is an old FDK Multi7, crystal rig.

Any help or suggestions would be great!

Andre

VK3FASW

```
From 7929020165529442093
X-Google-Thread: fc2a5,f8979e46724e07c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!a1g2000hsb.googlegroups.com!not-for-
mail
From: RBorowiak@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply
Date: Sun, 6 Jul 2008 12:25:10 -0700 (PDT)
Organization: http://groups.google.com
Lines: 52
Message-ID: <d753e152-b96f-45f8-b445-ccbabfb829ae@a1g2000hsb.googlegroups.com>
References: <a82be280-9eb8-40c2-8b87-2f0c7a4de0ee@z32g2000prh.googlegroups.com>
```

```
     <Tb6dnW3d9J3DVPrVnZ2dnUVZ_gadnZ2d@web-ster.com> <23f965fa-967f-4bfb-b2bc-
aa6cc2350fb9@w5g2000prd.googlegroups.com>
NNTP-Posting-Host: 76.226.135.142
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1215372311 9794 127.0.0.1 (6 Jul 2008 19:25:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 6 Jul 2008 19:25:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a1g2000hsb.googlegroups.com; posting-host=76.226.135.142;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:318

On Jul 1, 6:20 pm, jimmi...@gmail.com wrote:
> Tim Wescott wrote:
> > jimmi...@gmail.com wrote:
> > > I have a 12volt home made power supply similar to Astron models. I was
> > > told it could handle 30A. The pass transistors are missing and I have
> > > some 50 amp NPN darlington transistors on hand I was considering using
> > > for replacements. Can you think of any reason these could/should not
> > > be used.
>
> > > Jimmie
>
> > Tons, but all of them start with 'maybe'.
>
> > The biggest one is 'maybe your power supply was designed for straight
> > transistors' -- if it seems to have hefty current drive to the pass
> > transistor bases, then that would be the case.
>
> > Otherwise, go ahead and put in your pass transistors and see what happens.
>
> > Keep in mind that those pass transistors may be missing for a reason,
> > and the reason may be that the power supply never worked well in the
> > first place -- so if what you have doesn't work, it may be the design or
> > execution of your circuit, not the transistors themselves.
>
> > --
>
> Tim I made a few repairs that were obvious and discovered the power
> supply design was minimal at best. It does have what seems to be a
> very heavy duty transformer probably 30 amps CCS. There is no
> overcurrent/overvoltage protection. The heat sinks are small  in
> comparison to my Pyramid brand 20 amp power supply. The transformer is
> center tapped but a paralelled pair of bridge rectifers are being used
> with the (-) leads disconnected. The regulator doesnt have its own
> power supply or even operate from higher voltage taps on the
> transformer. Oh well, I bought it for the transformer and it looks
> like I got a good deal on that and the box.
```

>
> Jimmie

Personally I use a cheap FET,100 amps is like $3.00. With 0.004 ohms on resistance. Dual 30 amp schottky diodes for a 60 amp bridge. A TL431 as under voltage detector to clamp the gate to ground for short circuit protection. I gain a few extra volts because of the diode drop is lower and low on resistance of the FET. Which translates into more current from the same supply, that used bipolar transistors and regular diode bridge.

73,

N8ZU

```
From 295703923423272069
X-Google-Thread: fc2a5,44aae470c998d154
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!59g2000hsb.googlegroups.com!not-for-
mail
From: RBorowiak@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wideband receiver architectures
Date: Sun, 6 Jul 2008 12:47:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <06d46cb5-beff-4f42-b136-526ee11c8473@59g2000hsb.googlegroups.com>
References: <rAA5k.186489$Gv.71007@en-nntp-07.dc1.easynews.com>
NNTP-Posting-Host: 76.226.135.142
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1215373676 5788 127.0.0.1 (6 Jul 2008 19:47:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 6 Jul 2008 19:47:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 59g2000hsb.googlegroups.com; posting-host=76.226.135.142;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:319
```

On Jun 16, 5:05 pm, "Joel Koltner" <zapwireDASHgro...@yahoo.com>
wrote:
> Just curious... does anyone know what sort of architecture you find in your
> typical HT or mobile "receives everything from 100kHz - 1.3GHz!" radio to
> generate such a vast range of frequencies while still keeping the prices so
> low (plenty are available for <$200, and I can't expect the LO makes up a

> particularly large percentage of that total price)? I would tend to lean
> towards something PLL-based given the typically channelized nature of
> available frequencies, but a single PLL would still need a VCO with a huge
> tuning range. So... perhaps a pair of mixed PLLs, with one doing the fine
> tuning and another the coarse tuning (having been multiplied up from a low
> frequency)?
>
> I attempted to decipher the schematic included with my Yaesu FTM-10R, but
> everything is so tiny it was rather hopeless!
>
> I don't suppose any of the reviews ever go through and sweep the LOs while
> watching for the worst case spur conditions, do they?
>
> ---Joel

The one I had used triple conversion superhet. Mircoprocessor
controlled.
The first IF was like 336Mhz to 10.7Mhz to 455Khz. There was no front
end. just direct conversion to the IF. So all the micro had to do was
control the oscillator from 336Mhz to 900Mhz using up conversion on
the low bands and down conversion on the higher bands. Cell phone band
was locked out. Guess what you can pick cell phone band on the image
frequency back in the day.

73

N8ZU

From -2694178549105029829
X-Google-Thread: fcc6e,622883f5255bbab,start
X-Google-Thread: 11480d,622883f5255bbab,start
X-Google-Thread: 108122,622883f5255bbab,start
X-Google-Thread: fc2a5,622883f5255bbab,start
X-Google-Thread: 10b9c8,622883f5255bbab,start
X-Google-Attributes:
gidfcc6e,gid11480d,gid108122,gidfc2a5,gid10b9c8,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!
newshosting.com!198.186.194.249.MISMATCH!news-out.readnews.com!
transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1212818701@panix.com>
Followup-To: poster
Date: 7 Jul 2008 02:05:02 -0400
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com

Distribution: world
Expires: 09 Aug 2008 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1215410701@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1215410703 19812 166.84.1.2 (7 Jul 2008 06:05:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 7 Jul 2008 06:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:1249 rec.radio.amateur.dx:65 rec.radio.amateur.equipment:287 rec.radio.amateur.homebrew:320 rec.radio.info:105

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

```
From -4848033625681517682
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
d77g2000hsb.googlegroups.com!not-for-mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Mon, 7 Jul 2008 04:23:51 -0700 (PDT)
Organization: http://groups.google.com
Lines: 11
Message-ID: <bf4c39a7-d6cf-46eb-bbbd-5ab1b9ae3eca@d77g2000hsb.googlegroups.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
     <92419105-6fbe-4dbf-b971-7454304c514f@27g2000hsf.googlegroups.com>
     <17c8be37-7531-42a2-b8e5-124dae1584cb@k13g2000hse.googlegroups.com>
     <48565EB4.4010800@qrparci.org> <52fc1cc4-417a-40a0-9e11-
dd01b6ff477c@r66g2000hsg.googlegroups.com>
     <wOKdnSGmo7UeDvbVnZ2dnUVZ_qLinZ2d@comcast.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1215429832 17172 127.0.0.1 (7 Jul 2008 11:23:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 7 Jul 2008 11:23:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d77g2000hsb.googlegroups.com; posting-host=216.203.30.4;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.cb:864 rec.radio.amateur.equipment:289
rec.radio.amateur.homebrew:321

On Jul 2, 9:41=A0am, "Channel Cop" <ned...@yahoo.com> wrote:
> sound more like the garbage that fell off of the BACK of the animal while=
 it
> was taking a CRAP. =A0OH - wait a minute - "back-ordered" - that is the
> convention that you go out and turn-around and order something?

Thanks for your comment. In regard to your email... more VoiceMax
modules will be available earlier than expected... around August 1st.
We should have a few left after the back-orders are sent out.

www.telstar-electronics.com


From 8715398597027452686
X-Google-Thread: fc2a5,44aae470c998d154
```

X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-nntp-06.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <rAA5k.186489$Gv.71007@en-nntp-07.dc1.easynews.com> <06d46cb5-beff-4f42-b136-526ee11c8473@59g2000hsb.googlegroups.com>
Subject: Re: Wideband receiver architectures
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5512
Message-ID: <yKsck.243608$fB7.217884@en-nntp-06.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Mon, 7 Jul 2008 10:53:29 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:322

<RBorowiak@gmail.com> wrote in message
news:06d46cb5-beff-4f42-b136-526ee11c8473@59g2000hsb.googlegroups.com...
> Guess what you can pick cell phone band on the image
> frequency back in the day.

Given how much time was spent discussing the need for image rejection and the sometimes-elaborate techniques for achieving it, I suspect a lot of my college professors would be incredulous to learn that many receivers do just fine without it.

I've noticed that many Yaesu radios lock out the images of the old AMPS band, which sucks because the image is where there are also 100%-legal-to-receive paging bands. Yaesu lost a sale to Icom over this.

Hopefully the stupid law will be dropped one of these days -- it's not like any large percentage of all cell phone conversations are carried out on an AMPS anymore, and most of the cell phone carriers are quietly shutting down their old AMPS equipment altogether.

---Joel

From 4559848394076167707
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!

```
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 07 Jul 2008 16:14:27 -0500
Date: Mon, 07 Jul 2008 06:08:21 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wideband receiver architectures
References: <rAA5k.186489$Gv.71007@en-nntp-07.dc1.easynews.com> <06d46cb5-
beff-4f42-b136-526ee11c8473@59g2000hsb.googlegroups.com>
In-Reply-To: <06d46cb5-beff-4f42-b136-526ee11c8473@59g2000hsb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <DeudnYM07PCpGu_V4p2dnAA@pipex.net>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.76.16
X-Trace: sv3-
EUURXbRblD1THAW7oW0WtIgsdAyWohMRJSozjCYsSSxSf7Tv3fZDhoOgdjIpop6STfAwnk07Pj83rav!
IxlfCRrXy/2xZc5WAXIH8Rud1Ut0yz3t99Up+IUouUpyrrZeQbeK9HPl/nI2uvY+l1lsVtdpngsq!
jKVkel+BmqDH
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:323

> The one I had used triple conversion superhet. Mircoprocessor
> controlled.
> The first IF was like 336Mhz to 10.7Mhz to 455Khz. There was no front
> end. just direct conversion to the IF. So all the micro had to do was
> control the oscillator from 336Mhz to 900Mhz using up conversion on
> the low bands and down conversion on the higher bands. Cell phone band
> was locked out. Guess what you can pick cell phone band on the image
> frequency back in the day.
========
Are analog cellphones still used in the USA ?
I thought by now it is all digital sigs which can not be received with a
'normal' receiver , so what's the reason to 'lock out' the cellphone
frequencies ?

Frank    GM0CSZ / KN6WH


From 3106929550554360411
X-Google-Thread: fc2a5,44aae470c998d154
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.brown.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
```

```
Subject: Re: Wideband receiver architectures
Date: Tue, 08 Jul 2008 01:41:09 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.07.08.08.41.09.792467@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <rAA5k.186489$Gv.71007@en-nntp-07.dc1.easynews.com> <06d46cb5-
beff-4f42-b136-526ee11c8473@59g2000hsb.googlegroups.com>
<DeudnYM07PCpGu_V4p2dnAA@pipex.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 23
Organization: Octanews
NNTP-Posting-Date: 08 Jul 2008 03:41:10 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:324

On Mon, 07 Jul 2008 06:08:21 +0100, Highland Ham wrote:

>> The one I had used triple conversion superhet. Mircoprocessor
>> controlled.
>> The first IF was like 336Mhz to 10.7Mhz to 455Khz. There was no front
>> end. just direct conversion to the IF. So all the micro had to do was
>> control the oscillator from 336Mhz to 900Mhz using up conversion on
>> the low bands and down conversion on the higher bands. Cell phone band
>> was locked out. Guess what you can pick cell phone band on the image
>> frequency back in the day.
> ========
> Are analog cellphones still used in the USA ?
> I thought by now it is all digital sigs which can not be received with a
> 'normal' receiver , so what's the reason to 'lock out' the cellphone
> frequencies ?
>
> Frank    GM0CSZ / KN6WH

The same government logic that made TV broadcast standards
backwards-compatible for over 50 years.


--
Gregg



From 3289356433091523619
X-Google-Thread: fc2a5,a9c38a63f83c93ea,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 08 Jul 2008 14:15:56 -0500
Date: Tue, 08 Jul 2008 12:15:45 -0700
From: Gary <gbelcas@comcast.net>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
```

```
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: parts placement help
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <sbOdnXBBRuRxIe7VnZ2dnUVZ_jidnZ2d@comcast.com>
Lines: 9
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 67.170.123.87
X-Trace:
sv3-7G1S8Q7efHZ204I5oEZHX4XcjyEbaY718RcnTIRKnDDq9PU3RiT57DbcAnw1MNhPBfW2Syg/
xfCzC7g!Rvq5sRASoCjnF4gUpLWi4qZZQvoraLK+gdyh7avxzRNxMpnlReetxk7soS/
lM3vDLPHbLoJSzeqp!OmLQxYeX0lEE7joZzsXsvpUuPS1niQ==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:325
```

I'm assembling the bits/pieces needed to put together the 40W amp offered up by Mike Kossor in the March/April 1999 QST. Fortunately, the 2 printed circuit boards needed are still offered by FAR. I cannot find a parts placement guide and it is not obvious from either visual inspection of the boards or thorough reading of the article. Anybody have such a thing?? (Wouldn't mind hearing from you Mike if you're out there - nice article)

gary

```
From -4027906779284712113
X-Google-Thread: fc2a5,a9c38a63f83c93ea
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe24.lga.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <sbOdnXBBRuRxIe7VnZ2dnUVZ_jidnZ2d@comcast.com>
Subject: Re: parts placement help
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <TrPck.19945$%q.4511@newsfe24.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
```

```
X-Trace: newsfe24.lga 1215546227 72.209.25.33 (Tue, 08 Jul 2008 12:43:47 MST)
NNTP-Posting-Date: Tue, 08 Jul 2008 12:43:47 MST
Organization: Cox
Date: Tue, 8 Jul 2008 15:43:24 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:326
```

"Gary" <gbelcas@comcast.net> wrote in message
news:sbOdnXBBRuRxIe7VnZ2dnUVZ_jidnZ2d@comcast.com...

> I'm assembling the bits/pieces needed to put together the 40W amp offered
> up by Mike Kossor in the March/April 1999 QST. Fortunately,
> the 2 printed circuit boards needed are still offered by FAR. I cannot
> find a parts placement guide and it is not obvious from either visual
> inspection of the boards or thorough reading of the article. Anybody have
> such a thing?? (Wouldn't mind hearing from you Mike if you're out
> there - nice article)
>
> gary

If you are a member of the ARRL, contact the technical dept.
for clarification.

Pete

```
From 4534480947509071451
X-Google-Thread: fc2a5,a9c38a63f83c93ea
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-
mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <sbOdnXBBRuRxIe7VnZ2dnUVZ_jidnZ2d@comcast.com>
Subject: Re: parts placement help
Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <gSPck.189773$TT4.128810@attbi_s22>
NNTP-Posting-Host: 12.219.130.17
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1215547916 12.219.130.17 (Tue, 08 Jul 2008 20:11:56 GMT)
NNTP-Posting-Date: Tue, 08 Jul 2008 20:11:56 GMT
Organization: AT&T ASP.att.net
Date: Tue, 08 Jul 2008 20:11:56 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:327
```

"Gary" <gbelcas@comcast.net> wrote in message
news:sbOdnXBBRuRxIe7VnZ2dnUVZ_jidnZ2d@comcast.com...

> I'm assembling the bits/pieces needed to put together the 40W amp offered
> up by Mike Kossor in the March/April 1999 QST. Fortunately,
> the 2 printed circuit boards needed are still offered by FAR. I cannot
> find a parts placement guide and it is not obvious from either visual
> inspection of the boards or thorough reading of the article. Anybody have
> such a thing?? (Wouldn't mind hearing from you Mike if you're out
> there - nice article)
>
> gary

The League can't help you Gary, but you might try looking up Mike's call
sign on QRZ and e-mailing him direct, lots more likely to get an answer than
a shotgun approach here. That article is getting a little long in the tooth.
You might rather tackle a Communications concepts project, they're a bit
easier to deal with even if Granbergs designs are really old.

W4ZCB

```
From -2919361373684601371
X-Google-Thread: fc2a5,a9c38a63f83c93ea
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
m44g2000hsc.googlegroups.com!not-for-mail
From: Zack <zlau@arrl.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: parts placement help
Date: Wed, 9 Jul 2008 08:22:52 -0700 (PDT)
Organization: http://groups.google.com
Lines: 3
Message-ID: <aaa7981f-4a37-4a4c-88a4-1a75c958b632@m44g2000hsc.googlegroups.com>
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     <gSPck.189773$TT4.128810@attbi_s22>
NNTP-Posting-Host: 69.182.163.91
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1215616972 18927 127.0.0.1 (9 Jul 2008 15:22:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 9 Jul 2008 15:22:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m44g2000hsc.googlegroups.com; posting-host=69.182.163.91;
     posting-account=SxCI9goAAACIywZD23rUZDpSY4eusKEm
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:328
```

http://www.arrl.org/notes/hbk-templates/kossor.pdf

Here is the parts placement diagram on the arrl.org web site.

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From 3012283171859186502
X-Google-Thread: fc2a5,a9c38a63f83c93ea
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 09 Jul 2008 22:11:02 -0500
Date: Wed, 09 Jul 2008 20:11:00 -0700
From: Gary <gbelcas@comcast.net>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: parts placement help
References: <sbOdnXBBRuRxIe7VnZ2dnUVZ_jidnZ2d@comcast.com>
     <gSPck.189773$TT4.128810@attbi_s22>
<aaa7981f-4a37-4a4c-88a4-1a75c958b632@m44g2000hsc.googlegroups.com>
In-Reply-To: <aaa7981f-4a37-4a4c-88a4-1a75c958b632@m44g2000hsc.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
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Message-ID: <g56dndsQ069b4OjVnZ2dnUVZ_gidnZ2d@comcast.com>
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NNTP-Posting-Host: 67.170.123.87
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2EJHg+W/Lb4uLrKPCMbkYsZxaFZ7Qg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:329
```

Zack wrote:

> http://www.arrl.org/notes/hbk-templates/kossor.pdf
>
> Here is the parts placement diagram on the arrl.org web site.

Zack - YOU SIR are da' man. Thanks very much. I forgot that placement diagrams, etc are in the back of the handbook (I only copied the chapter pages).

Gary

```
From -1781770064423513324
X-Google-Thread: fc2a5,4fa9ff3600fecd55,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
a70g2000hsh.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 2 phase AC to DC supply
Date: Thu, 10 Jul 2008 18:09:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
Message-ID: <839d9e70-7d93-41a9-bf93-867762a9204c@a70g2000hsh.googlegroups.com>
NNTP-Posting-Host: 76.226.135.142
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1215738579 23928 127.0.0.1 (11 Jul 2008 01:09:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 11 Jul 2008 01:09:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a70g2000hsh.googlegroups.com; posting-host=76.226.135.142;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:330
```

I searched but couldn't find anything on:

Using 2 transformers
running the primary of one right off the mains
running the other transformer primary in series
with a large motor run capacitor to phase shift
the primary 90 degrees.
Rectify and filter both secondaries
Diode "OR" the rectified filtered outputs.
This would give me better than double the frequency
As the phase shift would overlap the
120 cycle pulsating DC.

Basicly I have 2 Eico 751 power supplies.
I like to beef up the supply to my Eico 753.

73
N8ZU

```
From -9073080406836238983
X-Google-Thread: fc2a5,dd85e692ccb301b0,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
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Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews6.bellsouth.net.POSTED!aba369ab!not-for-mail
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Recommendation for RF Prototype "Vector Board" with groundplane needed
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 22
Message-ID: <XlBdk.22180$NQ5.17167@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
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NNTP-Posting-Date: Fri, 11 Jul 2008 00:30:47 EDT
Organization: BellSouth Internet Group
Date: Fri, 11 Jul 2008 00:31:53 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:331
X-Original-Bytes: 1923

Recommendation for RF Prototype "Vector Board" with groundplane needed

I am looking to prototype a couple of small boards containing LINX TXM-433 LC and LR transmitter modules. These have pads on 0.1" centers and thus will match the Vector board strips that I am familiar with. However for this application, I need a ground plane under the module, and so am looking for a "vector" board with strips, but without plated through holes and ideally a solid ground plane on the reverse side. I would prefer plated traces and fiberglass insulation.

These will be simple boards, a TXM-433-LC, a couple of 555 timers and some discrete components.

Any recommendations?
--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From 7661045123753286352
X-Google-Thread: fc2a5,dd85e692ccb301b0
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!

27g2000hsf.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Recommendation for RF Prototype "Vector Board" with groundplane needed
Date: Thu, 10 Jul 2008 22:17:12 -0700 (PDT)
Organization: http://groups.google.com
Lines: 33
Message-ID: <17a019a1-a79d-4e61-b765-e7d114647573@27g2000hsf.googlegroups.com>
References: <XlBdk.22180$NQ5.17167@bignews6.bellsouth.net>
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1215753432 2742 127.0.0.1 (11 Jul 2008 05:17:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 11 Jul 2008 05:17:12 +0000 (UTC)
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.15) Gecko/20080623 Firefox/2.0.0.15,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:332

On Jul 10, 9:31 pm, RFI-EMI-GUY <Rhyol...@NETTALLY.COM> wrote:
> Recommendation for RF Prototype "Vector Board" with groundplane needed
>
> I am looking to prototype a couple of small boards containing LINX
> TXM-433 LC and LR transmitter modules. These have pads on 0.1" centers
> and thus will match the Vector board strips that I am familiar with.
> However for this application, I need a ground plane under the module,
> and so am looking for a "vector" board with strips, but without plated
> through holes and ideally a solid ground plane on the reverse side. I
> would prefer plated traces and fiberglass insulation.
>
> These will be simple boards, a TXM-433-LC, a couple of 555 timers and
> some discrete components.
>
> Any recommendations?

Three or four ideas:
o Get what you want made by one of the proto shops. Two-sided boards aren't outrageous.
o Use a piece of unetched board stock and glue strips with 0.1"-spaced pads onto it. (Seems like I've seen some places selling strips like that, maybe even with contact adhesive already on the backs.)
o Etch your own. This is close to trivial if you're already set up for it, but since you're asking, you probably aren't, so it may not make much sense.
o Quite useful if there aren't too many pads involved: start with double-sided copper-clad. Score one side as needed with a utility or

XActo knife, and pull up the unwanted copper. I do this occasionally
for SOIC parts, 0.05" lead spacing; it's very quick for small hacks.

Cheers,
Tom

```
From 4739640144325100667
X-Google-Thread: fc2a5,4fa9ff3600fecd55
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
z66g2000hsc.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2 phase AC to DC supply
Date: Thu, 10 Jul 2008 22:43:58 -0700 (PDT)
Organization: http://groups.google.com
Lines: 41
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NNTP-Posting-Host: 71.112.191.81
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Xref: g2news1.google.com rec.radio.amateur.homebrew:333
```

On Jul 10, 6:09 pm, raypsi <RBorow...@gmail.com> wrote:
> I searched but couldn't find anything on:
>
> Using 2 transformers
> running the primary of one right off the mains
> running the other transformer primary in series
> with a large motor run capacitor to phase shift
> the primary 90 degrees.
> Rectify and filter both secondaries
> Diode "OR" the rectified filtered outputs.
> This would give me better than double the frequency
> As the phase shift would overlap the
> 120 cycle pulsating DC.
>
> Basicly I have 2 Eico 751 power supplies.
> I like to beef up the supply to my Eico 753.
>

> 73
> N8ZU

Suggest you run a simulation of your circuit in something like LTSpice. It probably does not behave like you are thinking it will. Transformers are wound with enough inductance that they look like a moderately high impedance in parallel with the reflected secondary load. But if the secondary is loaded with a full-wave or bridge rectifier into a big capacitance, then current flows only when the secondary voltage is greater than the capacitor voltage (by a diode drop or two). So you end up drawing very little current on the primary side, except when the voltage is near the peak. As a result, you don't get a nice phase-shifted sine on the primary side.

Even if the load looks resistive, the current in the load is not 90 degrees out of phase with the mains voltage; it's just 90 degrees out of phase with whatever voltage drops across the capacitor.

Try some simulations with various loads and series capacitor values, and you'll get a feel for what's going on. If you want, I could send you the simulation file I just hacked together as a starting point.

Cheers,
Tom

From -8112545709957811808
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.posted.cpinternet!news.posted.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 11 Jul 2008 10:15:12 -0500
Date: Fri, 11 Jul 2008 10:17:19 -0500
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Recommendation for RF Prototype "Vector Board" with groundplane needed
References: <XlBdk.22180$NQ5.17167@bignews6.bellsouth.net> <17a019a1-a79d-4e61-b765-e7d114647573@27g2000hsf.googlegroups.com>
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X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:334

K7ITM wrote:

<snip>
I need a ground plane under the module,
>>and so am looking for a "vector" board with strips, but without plated
>>through holes and ideally a solid ground plane on the reverse side.

<snip>
> o Quite useful if there aren't too many pads involved: start with
> double-sided copper-clad. Score one side as needed with a utility or
> XActo knife, and pull up the unwanted copper. I do this occasionally
> for SOIC parts, 0.05" lead spacing; it's very quick for small hacks.

Also, consider using the E.F. Stahler or equiv. mini-mill bits to
drill out pads on the component side; this is a canonical method
of building high-frequency pcb prototypes. You then have large
copper fill on the component side as well as the reverse side plane.

Michael

From -4307949888893069491
X-Google-Thread: fc2a5,dd85e692ccb301b0
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-nntp-02.dc1.easynews.com.POSTED!not-for-mail
From: John Ferrell <johnferrell@sprintmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Recommendation for RF Prototype "Vector Board" with groundplane needed
Message-ID: <963f74pdihb1et578rol6huid88puohctq@4ax.com>
References: <XlBdk.22180$NQ5.17167@bignews6.bellsouth.net> <17a019a1-a79d-4e61-b765-e7d114647573@27g2000hsf.googlegroups.com>
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MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 5
X-Complaints-To: abuse@easynews.com

Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Fri, 11 Jul 2008 12:40:39 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2786

On Fri, 11 Jul 2008 10:17:19 -0500, msg <msg@_cybertheque.org_> wrote:

>E.F. Stahler
E.F. Stahler does not Google well for me. Do you have a url?
John Ferrell W8CCW

From -2227955356578117718
X-Google-Thread: fc2a5,dd85e692ccb301b0
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!w7g2000hsa.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Recommendation for RF Prototype "Vector Board" with groundplane needed
Date: Fri, 11 Jul 2008 10:48:17 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <16eb8622-e216-4cbd-bd0a-77e7ae5027eb@w7g2000hsa.googlegroups.com>
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Content-Transfer-Encoding: quoted-printable
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NNTP-Posting-Date: Fri, 11 Jul 2008 17:48:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w7g2000hsa.googlegroups.com; posting-host=170.121.15.35; posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:336

On Jul 11, 12:31=A0am, RFI-EMI-GUY <Rhyol...@NETTALLY.COM> wrote:
> Recommendation for RF Prototype "Vector Board" with groundplane needed
>
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> TXM-433 LC and LR transmitter modules. These have pads on 0.1" centers
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> would prefer plated traces and fiberglass insulation.

>
> These will be simple boards, a TXM-433-LC, a couple of 555 timers and
> some discrete components.
>
> Any recommendations?

"Dead bug".

Or, drill holes for all leads, and then use a small milling machine cutter or just a larger drill bit to remove the copper where you don't need it.

For prototyping, "dead bug" is way way superior to vectorboards etc, even with digital parts.

Tim.

```
From -8555617593522383096
X-Google-Thread: fc2a5,dd85e692ccb301b0
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.cpinternet!news.posted.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 11 Jul 2008 14:03:33 -0500
Date: Fri, 11 Jul 2008 14:05:40 -0500
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Recommendation for RF Prototype "Vector Board" with groundplane
  needed
References: <XlBdk.22180$NQ5.17167@bignews6.bellsouth.net> <16eb8622-e216-4cbd-
bd0a-77e7ae5027eb@w7g2000hsa.googlegroups.com>
In-Reply-To: <16eb8622-e216-4cbd-bd0a-77e7ae5027eb@w7g2000hsa.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <35OdnR3j5qEYM-rVnZ2dnUVZ_vzinZ2d@posted.cpinternet>
Lines: 14
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-8ZxzAT6kIRSaeYgPn2hKY+9EkJ8/
s6IhhysyzFYcvYo6i+fby49+ipmN+UUsMTjXaSgpGzL16A2Gzwt!
qqTdVshKMxsO5UvUH3lTHXRU4tEknLGQzxeOrULnO2GFf4If4u27fcx5CSqGbwmkFCzf4SsoJTyD!
In601k9nnMbPCfl1/VogYA==
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

```
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2788

Tim Shoppa wrote:

<snip>
> Or, drill holes for all leads, and then use a small milling machine
> cutter or just a larger drill bit to remove the copper where you don't
> need it.

Indeed, this is what the Stahler mini-mill bits do; they create an instant
pad wherever it is needed.  Stahler may no longer be in business, but
perhaps there are other pcb fab mini-mill bits out there.  If not, a
good machine shop should be able to create a few for commonly used
pad sizes, and they will be forever useful (to justify the expense).

Michael



From -2453826879008683643
X-Google-Thread: fc2a5,dd85e692ccb301b0
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.acm.uiuc.edu!
news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Recommendation for RF Prototype "Vector Board" with groundplane
  needed
Date: Fri, 11 Jul 2008 15:22:20 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 27
Sender: et472@205-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.0807111517400.6186@darkstar.example.org>
References: <XlBdk.22180$NQ5.17167@bignews6.bellsouth.net>
 <16eb8622-e216-4cbd-bd0a-77e7ae5027eb@w7g2000hsa.googlegroups.com>
 <35OdnR3j5qEYM-rVnZ2dnUVZ_vzinZ2d@posted.cpinternet>
NNTP-Posting-Host: 205-215-235-64-ppp.3menatwork.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1215804192 29199 64.235.215.205 (11 Jul 2008 19:23:12 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 11 Jul 2008 19:23:12 GMT
In-Reply-To: <35OdnR3j5qEYM-rVnZ2dnUVZ_vzinZ2d@posted.cpinternet>
Xref: g2news1.google.com rec.radio.amateur.homebrew:338

On Fri, 11 Jul 2008, msg wrote:

> Tim Shoppa wrote:
>
> <snip>
>> Or, drill holes for all leads, and then use a small milling machine
>> cutter or just a larger drill bit to remove the copper where you don't
```

>> need it.
>
> Indeed, this is what the Stahler mini-mill bits do; they create an instant
> pad wherever it is needed. Stahler may no longer be in business, but
> perhaps there are other pcb fab mini-mill bits out there. If not, a
> good machine shop should be able to create a few for commonly used
> pad sizes, and they will be forever useful (to justify the expense).
>

There was something about making one, I'm pretty sure in "Ham Radio",
sometime before 1974 (I can't figure out which article it was from
an accumulated index). I can't remember whether it was a homemade
version of the Stahler tool, or if Stahler came after to provide a
commercial version.

I can't remember the details (and I don't feel like digging through
the magazines to find the article now), but it wasn't much more than a
piece of good steel tubing.

    Michael VE2BVW

From 2603555563045148440
X-Google-Thread: fc2a5,4f4fead993dd7adc,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: FINNISH,ASCII
Subject: Re: kansalaisen karttapaikalla ilmakuvat
From: Heikkil� <klaus@donate.org>
Date: Sat, 12 Jul 2008 15:13:07 -0500
Message-ID: <sfnet15056@19.155.163.43>
References: <6dhsm6F2ltmfU1@mid.individual.net>
Lines: 74
NNTP-Posting-Host: 203.169.184.37
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!news-
out.superfeed.net!sp6iad.superfeed.net!news-in1.superfeed.net!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
X-Trace: news-in1.superfeed.net 1215893587 203.169.184.37 (12 Jul 2008 15:13:07
-0500)
Followup-To: sfnet.atk.os2,sfnet.harrastus.kiipeily,sfnet.tori.audio+video
MIME-Version: 1.0
Content-Type: text/plain;
Content-Transfer-Encoding: 8bit
X-Original-Bytes: 2715
X-Original-Lines: 85
Xref: g2news1.google.com rec.radio.amateur.homebrew:339

*(Ydinklingonimme on parhaillaan niin kiivaskiukkusen k��rmessm�rkkisi�,
ettei juuri vastattavaa l�ydy)). Toki syyn� se, ett� on tullut autonkuormina
ydinvastalunta tupasiinsa oikeen �IJ�KAADOLLA! Ja hyv� niin, jahka saamme
my�s SDP:lle viimen ik�v�idyn ydinvastaisemman johdon niin ..! Noo toki
katellaan miten homma pelitt��, mutta Lipposen ote puolueestaan lent�� kuin
sirrilintu Katmanduun.. .)

*Vaan hei iloa irti t�st�?
*Yleis�n pyynn�st� alan julkaisemaan Suomen ydinaavikoitumisen nykytilastamme kertovaa faktaa.
M.T.28.05-08. Ilmatieteen laitos.

PAIKKA	SADE mm.
Helsinki	
Kiikkala	
Turku	3,5mm
Jormala	
Pori	
Niinisalo	
Tampere	
Jokioinen	0,2
Lahti	
Utti	
L.ranta	0,7
Mikkeli	
Ilomantsi	1,9
Joensuu	1,3
Kuopio	1,1
Viitasaari	2,7
Jyv�skyl�	0,3
�ht�ri	2,0
Kauhava	0,3
Vaasa	0,5
Ylivieska	1,0
Kajaani	0,2
Ruukki	0,5
Pudasj�rvi	
Suomussalmi	0,4
Kuusamo	1,5
Rovaniemi	4,4
Pello	1,3
Salla	
Sodankyl�	1,5
Muonio	
Kilpisj�rvi	1,1
Ivalo	
Utsjoki	

*KESKIARVO= 34kpl/ 0,78mm
Keskisadantavrk. 2mm/5vrk/10mm= 7,8%

J�I -92,2% satamatta

----

*Niin? Kuka oikeasti edes yll�ttyi, ett� j�lleen kerran lirvahti kev�tkuukausi tuskin muutaman prosentin normisadannalla? Toki ilmatieteenlaitos ved�tt�� kuun lopulla pokkana, ett� maailma suorastaan hukkuu vesiin. No se meit� tietysti vain valheen m��r�ss� en�� jaksaa huvituttaa. Oikeesti siis kuka tuollaista paskaa edes viittii lukea en��, kun jokainen ymm�rt��, ett� ollaan ydinaavikoitumisessa kamelikyydiss� jo kohti -50% normisadannan huonompaa p��t�.

*Toki on p�iv�n selv��, ettei tilanne parane kuin ajamalla ydinm�rsk�t rakettikuormana aurinkoon paskaksi. Meill� meni t�ss� nyt mehil�iset, matelijat, sammakot, ehk� jo ensi viikolle taas odotamme mm. ydinlauhteisiin kuolevan meremme syyt�m�� kaspiankampamaneetti-invaasioita. Puumme menee n�k�j��n paperienergiatarpeineen ankeroisille muutamassa vuodessa! No yht� kaikki KUKAAN ei tule sanomaan, ettenk� jo pitk��n ja hartaasti varoitellut tulevien "punasadeaikojen kauhuista". Nukkukaa hyvin kiivaat ydinklingonimme, pian emme en�� uskalla ydinaavikoitumisen edetess� kohti v��j��m�t�nt� loppukliimaksiaan.(

```
From 2198167257593987475
X-Google-Thread: fc2a5,4fa9ff3600fecd55
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!25g2000hsx.googlegroups.com!not-for-
mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2 phase AC to DC supply
Date: Sat, 12 Jul 2008 19:26:47 -0700 (PDT)
Organization: http://groups.google.com
Lines: 58
Message-ID: <a10f5187-2ba4-4561-8934-0907a47b04bd@25g2000hsx.googlegroups.com>
References: <839d9e70-7d93-41a9-bf93-867762a9204c@a70g2000hsh.googlegroups.com>
NNTP-Posting-Host: 205.188.117.200
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1215916008 2542 127.0.0.1 (13 Jul 2008 02:26:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 13 Jul 2008 02:26:48 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 25g2000hsx.googlegroups.com; posting-host=205.188.117.200;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
     98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-dtc-td02.proxy.aol.com[CDBC7062] (Prism/1.2.1),
     HTTP/1.1 cache-dtc-ah08.proxy.aol.com[CDBC75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:340
```

On Jul 10, 9:09=EF=BF=BDpm, raypsi <RBorow...@gmail.com> wrote:
> I searched but couldn't find anything on:

There's a reason...

>
> Using 2 transformers
> =EF=BF=BDrunning the primary of one right off the mains
> running the other transformer primary in series
> =EF=BF=BDwith a large motor run capacitor to phase shift
> the primary 90 degrees.

You won't get 90 degrees phase shift because there's a resistive component involved. And as the resistive component changes, the phase shift will change,

> Rectify and filter both secondaries

OK

> Diode "OR" the rectified filtered outputs.

You don't need to do that, the rectifier circuits do it for you.

> This would give me better than double the frequency

No, it wouldn't. At best it would give you double the ripple frequency.

> As the phase shift would overlap the
> 120 cycle pulsating DC.

At best, the pulses of the phase-shifted rectifier would be in the valleys between the pulses of the non-phase-shifted rectifier. So you'd get twice as many pulses - no more.

What you propose doesn't offer any real advantage over a conventional single-phase supply. But it offers a lot of disadvantages such as requiring more than twice as many parts. The phase-shifted supply will have poor regulation and won't carry its share of the load.

> Basicly I have 2 Eico 751 power supplies.
> I like to beef up the supply to my Eico 753.

The best way to do that is to replace the old diodes and filter caps with modern ones. The 751 power supply is more than adequate to power the 753 if it's in good shape.

If your Eico 753 drifts, it's not the power supply. They all drift, so much so that they became known as the "Seven-Drifty-Three" in their time.

Another option if you can't leave well enough alone is to interconnect the power supplies so that one supply runs the low B+, bias and heaters, while the other one provides just the high B+

As K7ITM says, run some simulations and you'll see the reality.

73 de Jim, N2EY.

From 2008844111581623828
X-Google-Thread: fc2a5,4fa9ff3600fecd55
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!m44g2000hsc.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2 phase AC to DC supply
Date: Sun, 13 Jul 2008 03:08:24 -0700 (PDT)
Organization: http://groups.google.com
Lines: 81
Message-ID: <063661a7-305b-4143-8659-8a5fc17c5251@m44g2000hsc.googlegroups.com>
References: <839d9e70-7d93-41a9-bf93-867762a9204c@a70g2000hsh.googlegroups.com>
     <a10f5187-2ba4-4561-8934-0907a47b04bd@25g2000hsx.googlegroups.com>
NNTP-Posting-Host: 76.226.135.142
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1215943704 9708 127.0.0.1 (13 Jul 2008 10:08:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 13 Jul 2008 10:08:24 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:341

On Jul 12, 10:26=C2=A0pm, N...@aol.com wrote:
> On Jul 10, 9:09=EF=BF=BDpm, raypsi <RBorow...@gmail.com> wrote:
>
> > I searched but couldn't find anything on:
>
> There's a reason...
>
>
>
> > Using 2 transformers
> > =EF=BF=BDrunning the primary of one right off the mains
> > running the other transformer primary in series
> > =EF=BF=BDwith a large motor run capacitor to phase shift
> > the primary 90 degrees.
>
> You won't get 90 degrees phase shift because there's a resistive
> component involved. And as the resistive component changes, the phase
> shift will change,
>
> > Rectify and filter both secondaries

>
> OK
>
> > Diode "OR" the rectified filtered outputs.
>
> You don't need to do that, the rectifier circuits do it for you.
>
> > This would give me better than double the frequency
>
> No, it wouldn't. At best it would give you double the ripple
> frequency.
>
> > As the phase shift would overlap the
> > 120 cycle pulsating DC.
>
> At best, the pulses of the phase-shifted rectifier would be in the
> valleys between the pulses of the non-phase-shifted rectifier. So
> you'd get twice as many pulses - no more.
>
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> If your Eico 753 drifts, it's not the power supply. They all drift, so
> much so that they became known as the "Seven-Drifty-Three" in their
> time.
>
> Another option if you can't leave well enough alone is to interconnect
> the power supplies so that one supply runs the low B+, bias and
> heaters, while the other one provides just the high B+
>
> As K7ITM says, run some simulations and you'll see the reality.
>
> 73 de Jim, N2EY.

Hey Jim:

I was getting my transformers and motors mixed up you can trick
a 3 phase motor into running from single phase. But a transformer
is a passive device. Just another pipe dream.

Yes when it was a new built kit: the Ham I bought it from wrote down
all the voltages in the manual, which I still have.
For the 6DQ6 plate supply he wrote down 790VDC in transmitt.

Maybe that's an errot on his part, I get 750VDC in transmitt and
that's with 125VAC input on the mains, With 110VAC on the mains
the plate voltage goes to 650VDC. I put in new caps and high speed
high surge current 3 amp 1000piv diodes in the supply.

73

N8ZU

```
From -8379558796611288969
X-Google-Thread: fc2a5,4fa9ff3600fecd55
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!d77g2000hsb.googlegroups.com!not-for-
mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2 phase AC to DC supply
Date: Sun, 13 Jul 2008 03:18:42 -0700 (PDT)
Organization: http://groups.google.com
Lines: 66
Message-ID: <9371ba74-d030-47a5-9481-9b42492d6225@d77g2000hsb.googlegroups.com>
References: <839d9e70-7d93-41a9-bf93-867762a9204c@a70g2000hsh.googlegroups.com>
     <0086dcfb-06c7-4879-9680-8c34566adead@z66g2000hsc.googlegroups.com>
NNTP-Posting-Host: 76.226.135.142
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1215944322 11546 127.0.0.1 (13 Jul 2008 10:18:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 13 Jul 2008 10:18:42 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d77g2000hsb.googlegroups.com; posting-host=76.226.135.142;
     posting-account=fLVwTAoAAAAuuduBMbjTK6IYA_V3PAap
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:342
```

On Jul 11, 1:43=A0am, K7ITM <k7...@msn.com> wrote:

```
> On Jul 10, 6:09 pm, raypsi <RBorow...@gmail.com> wrote:
>
>
>
>
>
> > I searched but couldn't find anything on:
>
> > Using 2 transformers
> > =A0running the primary of one right off the mains
> > running the other transformer primary in series
> > =A0with a large motor run capacitor to phase shift
```

> > the primary 90 degrees.
> > Rectify and filter both secondaries
> > Diode "OR" the rectified filtered outputs.
> > This would give me better than double the frequency
> > As the phase shift would overlap the
> > 120 cycle pulsating DC.
>
> > Basicly I have 2 Eico 751 power supplies.
> > I like to beef up the supply to my Eico 753.
>
> > 73
> > N8ZU
>
> Suggest you run a simulation of your circuit in something like
> LTSpice. =A0It probably does not behave like you are thinking it will.
> Transformers are wound with enough inductance that they look like a
> moderately high impedance in parallel with the reflected secondary
> load. =A0But if the secondary is loaded with a full-wave or bridge
> rectifier into a big capacitance, then current flows only when the
> secondary voltage is greater than the capacitor voltage (by a diode
> drop or two). =A0So you end up drawing very little current on the
> primary side, except when the voltage is near the peak. =A0As a result,
> you don't get a nice phase-shifted sine on the primary side.
>
> Even if the load looks resistive, the current in the load is not 90
> degrees out of phase with the mains voltage; it's just 90 degrees out
> of phase with whatever voltage drops across the capacitor.
>
> Try some simulations with various loads and series capacitor values,
> and you'll get a feel for what's going on. =A0If you want, I could send
> you the simulation file I just hacked together as a starting point.
>
> Cheers,
> Tom- Hide quoted text -
>
> - Show quoted text -

Thanks Tom,

Looks like I been just chasing my tail.

I'll have to go with a 3 phase rotory converter.
That's like a 3hp 3 phase motor with phase shift
capacitor plus a run capacitor,
to run a 3 phase 3hp motor from a
single phase.
I then pull 2 phases off the motor
to run my supplys
=2E They use 3 phase rotory converters
to deliver 3 phase power to equipment that has to
have 3 phase power to run properly.
I seen one running on youtube.

From -2515155025942251500
X-Google-Thread: fc2a5,4fa9ff3600fecd55
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
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From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2 phase AC to DC supply
Message-ID: <tapj745os6fss7odqtjjoo7j58t08k4k7e@4ax.com>
References: <839d9e70-7d93-41a9-bf93-867762a9204c@a70g2000hsh.googlegroups.com> <0086dcfb-06c7-4879-9680-8c34566adead@z66g2000hsc.googlegroups.com> <9371ba74-d030-47a5-9481-9b42492d6225@d77g2000hsb.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
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Content-Transfer-Encoding: 8bit
Lines: 87
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NNTP-Posting-Host: 85.77.254.4
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1215948621 85.77.254.4 (Sun, 13 Jul 2008 14:30:21 EEST)
NNTP-Posting-Date: Sun, 13 Jul 2008 14:30:21 EEST
Organization: Saunalahti Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:343

On Sun, 13 Jul 2008 03:18:42 -0700 (PDT), raypsi <RBorowiak@gmail.com>
wrote:

>On Jul 11, 1:43�am, K7ITM <k7...@msn.com> wrote:
>> On Jul 10, 6:09 pm, raypsi <RBorow...@gmail.com> wrote:
>>
>>
>>
>>
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>> > I searched but couldn't find anything on:
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>> > Using 2 transformers
>> > �running the primary of one right off the mains
>> > running the other transformer primary in series
>> > �with a large motor run capacitor to phase shift
>> > the primary 90 degrees.
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>> > As the phase shift would overlap the
>> > 120 cycle pulsating DC.
>>

>> > Basicly I have 2 Eico 751 power supplies.
>> > I like to beef up the supply to my Eico 753.
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>> > 73
>> > N8ZU
>>
>> Suggest you run a simulation of your circuit in something like
>> LTSpice. �It probably does not behave like you are thinking it will.
>> Transformers are wound with enough inductance that they look like a
>> moderately high impedance in parallel with the reflected secondary
>> load. �But if the secondary is loaded with a full-wave or bridge
>> rectifier into a big capacitance, then current flows only when the
>> secondary voltage is greater than the capacitor voltage (by a diode
>> drop or two). �So you end up drawing very little current on the
>> primary side, except when the voltage is near the peak. �As a result,
>> you don't get a nice phase-shifted sine on the primary side.
>>
>> Even if the load looks resistive, the current in the load is not 90
>> degrees out of phase with the mains voltage; it's just 90 degrees out
>> of phase with whatever voltage drops across the capacitor.
>>
>> Try some simulations with various loads and series capacitor values,
>> and you'll get a feel for what's going on. �If you want, I could send
>> you the simulation file I just hacked together as a starting point.
>>
>> Cheers,
>> Tom- Hide quoted text -
>>
>> - Show quoted text -
>
>
>Thanks Tom,
>
>Looks like I been just chasing my tail.
>
>I'll have to go with a 3 phase rotory converter.
>That's like a 3hp 3 phase motor with phase shift
>capacitor plus a run capacitor,
>to run a 3 phase 3hp motor from a
>single phase.
>I then pull 2 phases off the motor
>to run my supplys
>. They use 3 phase rotory converters
>to deliver 3 phase power to equipment that has to
>have 3 phase power to run properly.
>I seen one running on youtube.

Rotary converters in 2008 ????

There are quite a few solid state converters for driving 3 phase bidirectional motors even from as single phase supply at such low power levels.

If the original requirement was to generate sufficient power into a tube transmitter anode supply, I would look into a switching power supply.

There are of course problems finding high voltage rectifiers for higher frequencies than 50/60 Hz and the RF noise might be an issue, but if you can kill the power supply during receive, the RF noise should not be an issue.

Paul OH3LWR

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Newsgroups: rec.radio.amateur.homebrew
References: <XlBdk.22180$NQ5.17167@bignews6.bellsouth.net> <16eb8622-e216-4cbd-
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needed
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X-RFC2646: Format=Flowed; Response
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Organization: BellSouth Internet Group
Date: Sun, 13 Jul 2008 09:39:21 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:344
```

> There was something about making one, I'm pretty sure in "Ham Radio",
> sometime before 1974 (I can't figure out which article it was from
> an accumulated index). I can't remember whether it was a homemade
> version of the Stahler tool, or if Stahler came after to provide a
> commercial version.
>
> I can't remember the details (and I don't feel like digging through
> the magazines to find the article now), but it wasn't much more than a
> piece of good steel tubing.

>
> Michael VE2BVW

This may be too late to help the original poster, but the pad-cutter is still available from a couple of sources. The price is WAY out of line, in my hobby-like mentality.
http://www.vectorelect.com/Catpdf/Page%2071.pdf

The above shows the sizes and styles currently produced. A Goggle search on "pad cutter" or "Vector pad cutter" will turn up some commercial sources (Digikey, etc.), but prices are in the $70-80 range.

A link below shows a neat, homemade version of the same idea.
www.njqrp.org/islanderpadcutter/index.html . While I haven't made one using these instructions, it appears to be workable.

My employer may purchase one of the Vector P138 cutters, just in case I have to fab up something in the tool and die shop where I hang out sometimes. Of course, I could build one, but.... as long as it's other people's money, why not buy!

Mike W5CHR
Memphis

From 1391122442312688459
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User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Recommendation for RF Prototype "Vector Board" with groundplane
needed
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<Pine.LNX.4.64.0807111517400.6186@darkstar.example.org>
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X-Complaints-To: abuse@dsl.pipex.net
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:345

>     A link below shows a neat, homemade version of the same idea.
>  www.njqrp.org/islanderpadcutter/index.html . While I haven't made
> one using these instructions, it appears to be workable.
=========================
A few years ago I bought a few islander-padcutters through the G-QRP
Club.   Excellent for homebrewing with discrete components .
The circular ring removed from the copper clad board is less than  1 mm
wide ,so maximum copper clad area remains ensuring a good ground plane .
Each island can take up 3 component leads
All grounded components are upright soldered into drilled holes , with
the other lead to serve as connecting point for other components.
As an alternative to islands I fit 10 MegOhm resistors upright used as
'insulators' in non-high impedence circuits.

The islands combined with above alternative methods ensure zero to very
short fitted component leads.


Frank   GM0CSZ / KN6WH


From 451388039719605094
X-Google-Thread: fc2a5,f8979e46724e07c7
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mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply
Date: Sun, 13 Jul 2008 14:52:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 34
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     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:346

jimmi...@gmail.com wrote:
> I have a 12volt home made power supply similar to Astron models. I was
> told it could handle 30A. The pass transistors are missing and I have
> some 50 amp NPN darlington transistors on hand I was considering using
> for replacements. Can you think of any reason these could/should not
> be used.
>
> Jimmie

Ok, I went through the amp and it is a cheap made piece of junk probably made to power a CB amp. No over current/vpoltage protection except fuses on both the input an output. It does have a few things going for it. The power transformer is truly massive. I dont doubt it would do 50 amps intermittently. The computer grade capacitors are 120,000uf total. The rectifiers were a couple of 25 amp bridges paralelled. I got rid of that and replaced thm with some leadless rectifiers that came out of some old telco equipment. I think they were part of a 200 amp bridge.

The main problem I have with it is the output transistors get hot, they are well heatsinked. The voltage on the collector of the pass transistors are 22volts. I think this is a little high. Is there a good way to bring this down. The transformer doesnt have any taps. I can put a big VARIAC on the front of of it to get it down but this is not my first choice. I think I remember that Sorenson used to make a power supply that used an SCR or TRIAC circuit on the primary side of the transformer as the control element of their regulator.

Any ideas on how to make this a useful device would be appreciated

Jimmie

From 7129995196413292341
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nntp.clear.net.nz!news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 13 Jul 2008 23:36:39 -0500
Date: Mon, 14 Jul 2008 16:36:44 +1200
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
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Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
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X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:347

jimmie68@gmail.com wrote:
>
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>
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>>told it could handle 30A. The pass transistors are missing and I have
>>some 50 amp NPN darlington transistors on hand I was considering using
>>for replacements. Can you think of any reason these could/should not
>>be used.
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> probably made to power a CB amp. No over current/vpoltage protection
> except fuses on both the input an output. It does have a few things
```

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> 120,000uf total. The rectifiers were a couple of 25 amp bridges
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> good way to bring this down. The transformer doesnt have any taps. I
> can put a big VARIAC on the front of of it to get it down but this is
> not my first choice. I think I remember that Sorenson used to make a
> power supply that used an SCR or TRIAC circuit on the primary side of
> the transformer as the control element of their regulator.
>
> Any ideas on how to make this a useful device would be appreciated
>
>
> Jimmie

First off Jimmie I would check out the device numbers on the power
transistors. If a search tells you that they are Darlington devices get
rid of them right off!!!
Darlingtons have a minimum collector/emitter voltage of ~1.5 volts or
more so they will get very hot indeed at 30 amps or so.
The ideal would be to use a switching type regulator and power FET's but
even high current (30 amps or more) bipolar devices would be a big
improvement. Check out the figure for Vce(sat) at high currents, tha
lower the better.
BTW if they are not Darlington devices you might have to use external
transistors to drive them unless you have a very "grunty" zener and
waste a bit of power to give them a reference base voltage.
Cliff Wright.ZL1BDA

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Xref: g2news1.google.com rec.radio.amateur.homebrew:348

T&T.Varavoima   [Jarmo Sepp�l�, 04.06.2008]
"Uusi ydinvoimala vaatii nopeaa h�iri�reservi�
Kantaverkkoyhti� Fingrid k�ynnist�� varavoimakapasiteetin rakentamisen yva-menettelyn loppukes�st�. Fingrid varautuu l�hivuosina lis��m��n nopeaa h�iri�reservi� 100-400 megawatilla. "

*��rimm�isen mielenkiintoinen tieto muuten! T�h�n asti kun ydinvoiman pakollista +10% alati py�riv�n tukis��t�voiman olemassaoloa IAEA/USA-lains��d�nn�ss�mme kun on tiedotusvuotona varjeltu julkisuudelta kuin kruunun jalokive�. Mutta kas, KAS n�in vaan Fennovoimalta se MY�S vaaditaan! Ja huomatkaa nyt m��r�! Kerroin, ett� JATKUVAA s��t�apuvoimaa menee 10% ensinn� hukkaan kiinailmi�estoreserveihin ja sitten toinen mokoma p��lle aputukivoimana huikein lis�kustannuksin. Eli t�st� oletetun 2 000MW voimalan 10% kiinailmi�nestoon ja j�lkilauhdepumppujen osasekunttien starttivarmistukseksi alati p��ll� py�riv�n�, ennen kuin ydinvoima edes lain mukaan p��stet��n verkkoon riehumaan menee tuosta siis 200MW. Mutta koska tarvitaan my�s ydintyyliin varmennuksen varmennusta apulis�� p��lle niin lurpahtaa my�s toiset 10% tuosta vaan. Eli TISMALEEN ydinvoima t�ll� faktauksella tarvitsee haaskaavaa lis�voimaa aina ydinalan ammattilaisena kertomani 10+10%= 20%!! Siis JOKA ydinvoimalamme vaatii tylysti todennetusti suomeksi liki Loviisan ydinvoimalan pelk�ksi h�t�apukyytipojakseen! Ja meinaan miljardeja ydintukiaisiin palaa meritt�in!!

*Maailmassa ei toki sitten MIK��N muuu energiamuoto kyll� vaadi vastaavaa reservi�. Ei edes siit� syytt� ydinvoimin aiemmin parjattu tuulivoima. Muilla kun ei s�teilyn j�lkil�mp� r�j�hd� ydinpommina muutamissa minuuteissa ydintyyliin. Esim. vesivoimalalle riitt�� pelkk� maan vetovoimalla toimiva alasajoventtiilin turva, ei MIT��N muuta. Kuten Tanskasta tied�mme siel� ei moisiin tuulis��t�voimiin ole ollut tarvetta. Vaikka L�nsi-Tanskan s�hk�st� on tuulivoimalla jo huikeat 50%. N�ink� alkaa vaan ydinalan valheet tippua julkisuuteen kuin m�t� omena puusta!? Eli nyt vaan Fennovoiman ydinherroilta tiedotusv�lineemme tivaamaan, ett� miksi t�m� ydinvoimaan elimellisesti kuuluneet s��t�voiman lis�kustannusfaktat on aina t�h�n asti vuosikymmenet megakustannuspakkoina pimitetty?!

*Tilanne tulee sik�li hauskempaan suuntaan kun esim. TVO:n kaasuvoimaloiden n.100MW kevytdieselin P�IV�KULUTUS heiluu 1 000m3/vrk. L�p�n euron litrahinnalla korkkaa ekstemporee miljoonan/vrk!! Ja t�m� tosiaan yll� enemm�n kuin triplettin�.. ..Hmm , todella mielenkiintoinen t�h�n asti tarkoin salattu ydinalan lis�megakulu taas paljastettuna!! Ei taida olla "sattuneesti" ydinalalle oikein mieluisaa kertoilla n�ist� reaaleistaan!? Jaa niin tosiaan esim. TVO:n lis�kaasuturbinien pakoputkissa ei laki salli sitten MIT��N filtteri� starttihidasteenaan, eli pelkk� aukko syyt�m��n maailman t�yteen pienhiukkasia ja CO2 sellaisella ennenn�kem�tt�m�n vihan kiivaudella, ett� j�� siin� ydinp��st�kinti�mme CO2 osalta my�s heitt�m�ll�

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rankasti miinukselle hetkess�!


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mail
From: Leon <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Recommendation for RF Prototype "Vector Board" with groundplane
     needed
Date: Mon, 14 Jul 2008 03:18:06 -0700 (PDT)
Organization: http://groups.google.com
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NNTP-Posting-Date: Mon, 14 Jul 2008 10:18:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s50g2000hsb.googlegroups.com; posting-host=86.145.228.233;
     posting-account=QWZLZQkAAADFmB_RJlmk3T-GvINRaZti
User-Agent: G2/1.0
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     Gecko/2008052906 Firefox/3.0,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:349

On 13 Jul, 22:03, Highland Ham <abcgm0csz.kn6wh...@dsl.pipex.com>
wrote:
> > =A0 =A0 A link below shows a neat, homemade version of the same idea.
> > =A0www.njqrp.org/islanderpadcutter/index.html. While I haven't made
> > one using these instructions, it appears to be workable.
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D
> A few years ago I bought a few islander-padcutters through the G-QRP
> Club. =A0 Excellent for homebrewing with discrete components .
> The circular ring removed from the copper clad board is less than =A01 mm
> wide ,so maximum copper clad area remains ensuring a good ground plane .
> Each island can take up 3 component leads
> All grounded components are upright soldered into drilled holes , with
> the other lead to serve as connecting point for other components.
```

> As an alternative to islands I fit 10 MegOhm resistors upright used as
> 'insulators' in non-high impedence circuits.
>
> The islands combined with above alternative methods ensure zero to very
> short fitted component leads.
>
> Frank =A0 GM0CSZ / KN6WH

Farnell used to sell isolated pad cutters. I've got a couple and they
weren't expensive. They might still stock them.

Leon

```
From -8932496132625075342
X-Google-Thread: fc2a5,f8979e46724e07c7
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X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Mon, 14 Jul 2008 06:19:10 -0500
Date: Mon, 14 Jul 2008 12:04:30 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply
References: <a82be280-9eb8-40c2-8b87-2f0c7a4de0ee@z32g2000prh.googlegroups.com>
<3f2bddb8-766f-42b8-bf40-deccfeab2e61@b1g2000hsg.googlegroups.com>
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NNTP-Posting-Host: 85.210.73.30
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X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:350
```

jimmie68@gmail.com wrote:
> The main problem I have with it is the output transistors get hot,
> they are well heatsinked. The voltage on the collector of the pass
> transistors are 22volts. I think this is a little high. Is there a

> good way to bring this down. The transformer doesnt have any taps. I
> can put a big VARIAC on the front of of it to get it down but this is
> not my first choice. I think I remember that Sorenson used to make a
> power supply that used an SCR or TRIAC circuit on the primary side of
> the transformer as the control element of their regulator.
>
> Any ideas on how to make this a useful device would be appreciated

===
There is an excellent article on SCR controlled power supplies in ARRL
mag QEX -July/Aug 1999 ,pages 50 - 55.
"A regulated 2400 V Power Supply by VE6AXW"
It has a 'soft start' facility and voltage control is very good (voltage
drops only a few volts between zero and 1 Ampere load conditions (and
that at 2400V)).
The SCR or triac type of control can obviously be applied to any power
supply unit . It can hence also be used for a controlled (soft start)
filament voltage for expensive high power valves (tubes)

In order not to get a 'dirty' 115/230 V AC system on the premises
,because of the SCRs /triac ,it might be necessary to include an
'upstream' AC filter.

Frank   GM0CSZ / KN6WH

From 5131557136184155494
X-Google-Thread: fc2a5,f8979e46724e07c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
newsfeed.freenet.de!newsfeed.kamp.net!newsfeed.kamp.net!news.k-dsl.de!aioe.org!
fmmck
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply
Date: Mon, 14 Jul 2008 19:44:02 -0400
Organization: Aioe.org NNTP Server
Lines: 21
Message-ID: <fmmck-147CAC.19440214072008@nntp.aioe.org>
References: <a82be280-9eb8-40c2-8b87-2f0c7a4de0ee@z32g2000prh.googlegroups.com>
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<487ad7d5@clear.net.nz>
NNTP-Posting-Host: ARb8XTw8NahdrXYZnqk8NQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.3b2 (Intel Mac OS X)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2802

In article <487ad7d5@clear.net.nz>,
 cliff wright <c.c.wright@paradise.net.nz> wrote:

> If a search tells you that they are Darlington devices get
> rid of them right off!!!

> Darlingtons have a minimum collector/emitter voltage of ~1.5 volts or
> more so they will get very hot indeed at 30 amps or so.

Cliff-

Are you sure that applies to Astron-type power supplies? The ones I'm familiar with do not operate with the pass transistors near saturation.

Perhaps a Darlington device is not the best choice for some other reason, but I would think a pair of 50 Amp devices could handle 15 Amps each (30 Amps total) with sufficient cooling, if they are rated for at least 120 watts each. (I assume 22 volts input, 14 volts output, 8 * 15 = 120 Watts per device.)

Fred
K4DII

```
From -2407144945690222422
X-Google-Thread: fc2a5,f8979e46724e07c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 14 Jul 2008 21:20:22 -0500
From: Dave M <masondg4xx4@cxxomcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply
Date: Mon, 14 Jul 2008 22:20:21 -0400
Message-ID: <r0rn74ph4o98uveid8mpp5hhbhs2gqjgnh@4ax.com>
References: <a82be280-9eb8-40c2-8b87-2f0c7a4de0ee@z32g2000prh.googlegroups.com>
<3f2bddb8-766f-42b8-bf40-deccfeab2e61@b1g2000hsg.googlegroups.com>
<487ad7d5@clear.net.nz> <fmmck-147CAC.19440214072008@nntp.aioe.org>
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X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2803
```

On Mon, 14 Jul 2008 19:44:02 -0400, Fred McKenzie <fmmck@aol.com> wrote:

>In article <487ad7d5@clear.net.nz>,
> cliff wright <c.c.wright@paradise.net.nz> wrote:
>
>> If a search tells you that they are Darlington devices get
>> rid of them right off!!!
>> Darlingtons have a minimum collector/emitter voltage of ~1.5 volts or
>> more so they will get very hot indeed at 30 amps or so.
>
>Cliff-
>
>Are you sure that applies to Astron-type power supplies? The ones I'm
>familiar with do not operate with the pass transistors near saturation.
>
>Perhaps a Darlington device is not the best choice for some other
>reason, but I would think a pair of 50 Amp devices could handle 15 Amps
>each (30 Amps total) with sufficient cooling, if they are rated for at
>least 120 watts each. (I assume 22 volts input, 14 volts output, 8 * 15
>= 120 Watts per device.)
>
>Fred
>K4DII

Fred is absolutely correct in saying that the pass transistors in most linear regulators such as those in the Astron supplies do not operate as saturated elements. Therefore, the higher CE saturation voltage of a darlington has no bearing in this discussion. On another point, the 120 watts per device that Fred mentions is at a case temperature of 25 deg, C. Heatsinks of reasonable size can't dissipate that much power and keep the case temperature at 25C.

I have a few talking points that nobody has touched on directly.

If the regulator was designed to use normal (non-darlington) pass transistors, and you substitute darlingtons in their place, some very bad things could (will) happen.

The output of the regulator will likely try to go to its full input voltage rail (because of the high gain of the darlingtons). The feedback loop in the regulator will try to bring it back down to the set output voltage. It probably can't because the gain of the darlingtons is too high, and the output stays banged against the input rail (22V).

Even if the regulator loop can bring it down, the control loop isn't compensated correctly for the high gain of the pass elements, and the regulator will oscillate wildly. Both conditions are catastrophic for a power supply.

Another point that I would like to mention is that of a transistor's SOA or Safe Operating Area. There are two graphs in the datasheet for the transistors. The SOA graph shows the safe combinations of collector current and collector-emitter voltage AT A CASE TEMPERATURE OF 25 DEG C. The power derating graph shows how much power the transistor can safely dissipate at a given temperature.

You MUST use thesse graphs when designing a pass element. They will help you choose the appropriate transistor types and will tell you how many transistors you have to use in the pass element to safely supply the design load current.

In almost all cases, the current through each transistor in the pass element is limited to much less than the absolute maximum collector current spec. Thus, although a 2N3771 transistor has an absolute max Ic of 30A, it won't be able to pass that amount of current at any value of CE voltage. The datasheet gives the conditions for that current; the higher the collector current, the lower the CE voltage allowed.

Sorry for being long-winded, but it's not a 2-sentence discussion.

Cheers!!!
==============

Dave M
Remove all of the Xs from the reply address Dave M <masondg4xx4@cxxomcast.net>
Never take a laxative and a sleeping pill at the same time!!

From -4445249027290037287
X-Google-Thread: fc2a5,f8979e46724e07c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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newsfeed1.swip.net!newsfeed1.funet.fi!newsfeeds.funet.fi!
feeder1.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply
Message-ID: <edfo74tc44cmts377lqvg4dbaca3j28r15@4ax.com>
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<3f2bddb8-766f-42b8-bf40-deccfeab2e61@b1g2000hsg.googlegroups.com>
<487ad7d5@clear.net.nz> <fmmck-147CAC.19440214072008@nntp.aioe.org>
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Content-Type: text/plain; charset=us-ascii
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Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:2804

On Mon, 14 Jul 2008 22:20:21 -0400, Dave M <masondg4xx4@cxxomcast.net>
wrote:

>On Mon, 14 Jul 2008 19:44:02 -0400, Fred McKenzie <fmmck@aol.com> wrote:
>
>>In article <487ad7d5@clear.net.nz>,
>> cliff wright <c.c.wright@paradise.net.nz> wrote:
>>
>>> If a search tells you that they are Darlington devices get
>>> rid of them right off!!!
>>> Darlingtons have a minimum collector/emitter voltage of ~1.5 volts or
>>> more so they will get very hot indeed at 30 amps or so.
>>
>>Cliff-
>>
>>Are you sure that applies to Astron-type power supplies? The ones I'm
>>familiar with do not operate with the pass transistors near saturation.

Are you sure about that ? Have you looked at the capacitor voltage with an oscilloscope with full nominal current and minimum mains voltage ? The goal should be that the capacitor voltage just before the rectifier starts to conduct is only slightly above the output voltage.

>Another point that I would like to mention is that of a transistor's SOA or Safe
>Operating Area. There are two graphs in the datasheet for the transistors. The
>SOA graph shows the safe combinations of collector current and collector-emitter
>voltage AT A CASE TEMPERATURE OF 25 DEG C. The power derating graph shows how
>much power the transistor can safely dissipate at a given temperature.

The SOA is important especially in the short circuit current limiting case, when both the current and voltage across the transistor is high. A fold-back current limiting solves this problem.

The SOA derating usually starts above 5 V, so in a properly designed power supply the input-output voltage difference should be less than that, so in normal operation, the SOA is not very critical.

Paul OH3LWR

From -5048793494458812822
X-Google-Thread: fc2a5,f8979e46724e07c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!34g2000hsh.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply
Date: Tue, 15 Jul 2008 05:23:30 -0700 (PDT)
Organization: http://groups.google.com

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Xref: g2news2.google.com rec.radio.amateur.homebrew:2805
```

> happen.
>
> The output of the regulator will likely try to go to its full input voltage rail
> (because of the high gain of the darlingtons). The feedback loop in the
> regulator will try to bring it back down to the set output voltage. It probably
> can't because the gain of the darlingtons is too high, and the output stays
> banged against the input rail (22V).

I dont understand what you mean by this. The voltage gain of the darlington transistors is less than unity in this case since they are being used as emitter followers.

I am dropping 8.5 volts at 20 amps or 170 watts is being dissipated by the transistors. This may not be a real problem. I know my commercial power supply of similar size only provides about 18 volts to the collector of the pass transistors and this would result in about half as much power being wasted. What voltage would you normally expect at the the collector of the pass transistors. I have also thought that maybe I dont have that much of a real problem since I doubt if the power supply will ever be put under the same demands as it does working into my load bank. Also I think I should add two more transistors in paralell with the two I have. I think this would distribute the heat better over my heat sink and have less localized heating.

I dont think the size of my heatsink is a problem, it is probably overkill. it is a 8in chimney type heat sink(i think that what you call them) 8x8x10 inches finned inside and out. The transistor body is mount on the outside withe the wires going down the inside of the chimney. The end of the chimney is designed to take a muffin fan.

Jimmie

```
From 6091329992163307322
X-Google-Thread: fc2a5,f8979e46724e07c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Path: g2news1.google.com!news3.google.com!feeder.news-service.com!club-
internet.fr!feedme-small.clubint.net!aioe.org!fmmck
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply
Date: Tue, 15 Jul 2008 13:24:48 -0400
Organization: Aioe.org NNTP Server
Lines: 33
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User-Agent: MT-NewsWatcher/3.5.3b2 (Intel Mac OS X)
Xref: g2news1.google.com rec.radio.amateur.homebrew:355
```

In article
<2b063955-fd09-408f-82dc-60415fba4e6a@34g2000hsh.googlegroups.com>,
 jimmie68@gmail.com wrote:

> The voltage gain of the
> darlington transistors is less than unity in this case since they are
> being used as emitter followers.

Jimmie-

I agree. Being the devil's advocate, a circuit can have parasitic elements you don't think about, and can oscillate in a different mode than it normally operates in. If you were using it to power a transmitter with a poor antenna, there might be some RF energy entering the base-emitter junction. The energy is rectified and shifts the bias conditions. DC output voltage is changed, resulting in a change in the level of the rectified RF, resulting in a change in the DC output voltage, et cetera. Normally you would disregard this until/unless you actually observe a problem.

I agree with Paul, that you want the capacitor voltage to be relatively close to the output voltage. But there is a limit where hum starts to appear in the output, and regulation is reduced. In the case of the Astron RS-20 circuit diagram, the main capacitor voltage is listed as 23.0 for no load and 18.0 under load, for 13.8 VDC no load output and

13.7 VDC under load.

I worked on a friend's RS-20. After repair, I ran it for several hours
at 8 Amps load. This is within the continuous power rating, but the
heat sink really got hot!

Fred
K4DII

```
From -5552701935188679655
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mail
From: cloughbrengle@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: 30s "homebrew" ham receiver project
Date: Tue, 15 Jul 2008 14:16:14 -0700 (PDT)
Organization: http://groups.google.com
Lines: 9
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Xref: g2news1.google.com rec.radio.amateur.homebrew:356
```

I thought you guys might be interested in my current restoration of a
30s "homebrew"
receiver. I put homebrew in quotes because I'm not 100% sure it's not
commercial built
or maybe a prototype.
Here's a like to the first of the project web pages.
http://radioheaven.homestead.com/HomeBrewRX.html

73, W4Ron

```
From 4255058542259778538
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Newsgroups: rec.radio.swap,rec.radio.amateur.misc,sci.electronics.misc,ne.forsale,ne.general,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.info
Subject: ** FLEA at MIT **   Sunday July 20th   Cambridge MA
Summary: Buy Sell SWAP Ham Radio Electronics Computers 9AM - 2PM
Expires: 7/22/08
Followup-To: poster
Approved: rec-radio-info@panix.com
Distribution: na
Organization: Massachvsetts Institvte of Technology
Keywords: Hamfest Fleamarket SWAPFEST Computers Ham Radio Electronics
From: w1gsl@mit.edu (Steven L. Finberg)
Date: 15 Jul 2008 23:19:26 GMT
Lines: 121
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This coming Sunday....
          the next .... FLEA at MIT

****
****

Summary: Buy Sell SWAP   Ham Radio   Electronics Computers   9AM - 2PM

*** !!!! In our Traditional GARAGE and the adjacent lot !!!! ****
         so come rain or shine or super heat the Flea is on !!!

!! ** More Buyers PARKING is available ** for details see
                              http://web.mit.edu/w1gsl/Public/flyer

<FF>
********* $1 buyers discount with hardcopy of this notice ********

COMPUTERS - ELECTRONICS - HAM RADIO - COMPUTERS - ELECTRONICS - HAM RADIO

                    FLEA all SUMMER at MIT
                    Sunday July 20th 2008
                          9AM-2PM

Come to the city for a great flea - plenty of free parking.

MIT's electronics and ham radio flea will take place on the third Sunday of each month this summer, April thru October.

There is tailgate space for over 600 sellers and free, off-street parking for >2000 cars!

Buyers admission is $5 (you get $1 off if you're lucky enough to have a copy of our ad) and sellers spaces are $20 for the first and $15 for each additional at the gate.

The flea will be held on Albany between Mass Ave and Main streets in Cambridge; right in the Kendall Square area from 9AM to 2PM, with sellers set-up time starting at 7AM.

*** Attention Sellers ***
Prepaid vendors.. Season Pass or monthly, will be admitted FIRST.
Separate lines will form prior to gate opening for prepaid and nonprepaid vendors

!! RAIN or SHINE !! Have no fear of rain, a covered well illuminated tailgate area is available for all sellers (6'8" clearance).

Talk-in: 145.23- (PL 88.5) W1BOS/R and
W1XM/R-449.725/444.725 (PL 114.8/2A).

Sponsors: MIT Electronics Research Society
MIT UHF Repeater Association (W1XM)
MIT Radio Society (W1MX)
Harvard Wireless Club (W1AF)

For more info / advanced reservations 617 253 3776 (M-F 9-5)

********** $1 buyers discount with hard copy of this notice ************

<FF>

Mail the coupon below by the 5th to be a Prepaid Vendor.

FLEA at MIT 2008 Rates

SELLERS

To use your prepaid spaces the named vendor MUST be present.
Rates include one admission per space.

```
Advance         $17 First space
                  $12 Additional Spaces
                        Must be received by the 10th of the month.

Gate Admission  $20 First Space
                  $15 Additional Spaces
                      Admission is after the prepaid vendors.

Early Bird Buyer -Admission after the prepaid vendor line is admitted. ~ 7:15AM
                ** You may not sell. **
                $15 per person at the gate.
                $70 Season Early Bird Buyer


   cut and return
**************************************************************************
FLEA at MIT   2008        Advance Space Application               7/08

   ____April    ____May    ____June   ____ July  ____Aug   ___Sept   ____Oct
          @ $17  for the first each month  + $12 each additional

Name    ________________________     Call  __________     $ Included_________

Address ________________________     Phone  __________     Make Check to
                                                         The MIT Radio Society
City  ____________________ State  _______  Zip  _______    PO Box 397082
                                                           Cambridge MA 02139
E-mail  _____________________________________________



*******************************************************************************
Steve Finberg                       W1GSL                          w1gsl@mit.edu
PO Box 82 MIT Br           Cambridge MA  02139-7082                617 258 3754
*******************************************************************************
```

From 508449301271015610
X-Google-Thread: fc2a5,f8979e46724e07c7
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X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!79g2000hsk.googlegroups.com!not-for-mail
From: raypsi <RBorowiak@gmail.com>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Power supply
Date: Tue, 15 Jul 2008 19:06:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 58
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     <487ad7d5@clear.net.nz> <fmmck-147CAC.19440214072008@nntp.aioe.org>
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NNTP-Posting-Date: Wed, 16 Jul 2008 02:06:13 +0000 (UTC)
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     2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:358

The voltage gain of darlingtons is less that unity as a emitter
follower. but not the current gain. The base current is like 20 ma.
and the collector is like 20 amps that's a gain of 100. A good
regulator like a LM723 can regulate that easy. If the gain ain't there
in the darlingtons you need a drive transistor.

I use a 0.1 ohm 50watt resistor series with the output, that gives me
an extra 2 volt drop that isn't across the transistor and keeps 40
watts from heating up the output. You still lose 40 watts. It just
goes up in the resistor. The 0.1 ohm 50 watt is only good for like 22
amps.

Put a fan on the heatsink. 170 watts will get hot all the time.
I put a computer power supply fan on my supply, the output stays alot
cooler.
Once the current drops the fan cools it really fast.

You have a high transformer voltage because it's a 50 amp supply and
you are running it at only 20 amps.

On Jul 15, 8:23=A0am, jimmi...@gmail.com wrote:
> > happen.
>
> > The output of the regulator will likely try to go to its full input vol=
tage rail
> > (because of the high gain of the darlingtons). =A0The feedback loop in =
the
> > regulator will try to bring it back down to the set output voltage. =A0=

```
It probably
> > can't because the gain of the darlingtons is too high, and the output s=
tays
> > banged against the input rail (22V).
>
> I dont understand what you mean by this. The voltage gain of the
> darlington transistors is less than unity in this case since they are
> being used as emitter followers.
>
> I am dropping 8.5 volts at 20 amps or 170 watts is being dissipated by
> the transistors. This may not be a real problem. I know my commercial
> power supply of similar size only provides about 18 volts to the
> collector of the pass transistors and this =A0would result in about half
> as much power being wasted. What voltage would you normally expect at
> the the collector of the pass transistors. I have also thought that
> maybe I dont have that much of a real problem since I doubt if the
> power supply will ever be put under the same demands as it does
> working into my load bank. Also I think I should add two more
> transistors in paralell with the two I have. I think this would
> distribute the heat better over my heat sink and have less localized
> heating.
>
> I dont think the size of my heatsink is a problem, it is probably
> overkill. it is a 8in chimney type heat sink( i think that what you
> call them) 8x8x10 inches finned inside and out. The transistor body is
> mount on the outside =A0withe the wires going down the inside of the
> chimney. The end of the chimney is designed to take a muffin fan.
>
> Jimmie



From 2701086819769112005
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mail
From: Free download mp3 songs <priyamishra4u@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: CLICK HERE FOR DOWNLOAD SONGS, WALLPAPER, AND MANY MORE.......
Date: Tue, 15 Jul 2008 19:34:47 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
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Complaints-To: groups-abuse@google.com
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SV1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:359

CLICK HERE FOR DOWNLOAD SONGS, WALLPAPER, AND MANY MORE.......

http://groups.google.com/group/rec.music.indian.misc/browse_thread/thread/23ef7b6d50b2ba69

MP3 songs - http://downloadfreemp3songs.50webs.com/home.html

Download ringtones - http://downloadfreemp3songs.50webs.com/ringtones.html

Download hindi movie songs- http://downloadfreemp3songs.50webs.com/downloadhindisongs.html

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Latest movie songs - http://downloadfreemp3songs.50webs.com/latestmp3songs.html

Play online musics - http://downloadfreemp3songs.50webs.com/playmusics.html

Old songs - http://downloadfreemp3songs.50webs.com/top5songssites.html

Panjabi Songs - http://downloadfreemp3songs.50webs.com/panjabisongs.html

Tamil songs - http://downloadfreemp3songs.50webs.com/tamilsongs.html

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From: brandedsite <brandnewcheap@163.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: cigarettes:mayfair,regal,club,benson and hedges,lambert and

```
     butler,superkings
Date: Wed, 16 Jul 2008 01:28:07 -0700 (PDT)
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:360
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original benson and hedges,benson & hedges,b&h,Master Case,Marlboro,cigarette tobacco shipping to uk,Duty Free Suppliers In China Wanted Marlboro|555|Belomorkanal|Bond|Camel|Chesterfield|Dallas| Davidoff|Dunhill|Epique|Esse|Gauloises|Karelia|Kent|L&M|LuckyStrike| Magna|Marlboro|MildSeven|MonteC|rlo|More|Muratti|PallMall|Parliament| PeterI|R1|Rothmans|RussianStyle|Salem|Sobranie|Sovereign|Viceroy| VirginiaSlims|Vogue|West|Winston|SpecialOffer
processed tobacco of all grades, for European market. (www brandedsite com)

cigarettes:mayfair,regal,club,benson and hedges,lambert and butler,superkings,richmonds superkings,tobacco:golden virginia,drum,wilsons (www[dot]brandedsite[dot]com)

Finest Cigartte from Europe uk's no.1 brand cigatettes king size l&b clebration park uk duty paid.Hookah (www[dot]brandedsite[dot]com)
kinds of cigarettes Light and Mid and Normal (www brandedsite com)
with a competitive prices FOB or CNF cif (www[dot]brandedsite[dot]com)
buy China brand cigarettes direct from manufacturer (www brandedsite com)

are you looking for suppliers of high quality shisha tobacco interested in exporting to Poland, to feed the developing popularity of shisha smoking in the country. So far only low quality producers are present on the market, and only small batches of high quality tobacco is being brought to the country by individuals who travel abroad or order from internet stores in other countries for personal use, yet the demand for higher quality tobacco is very high on all community forums, as well as among hookah bar owners. (www[dot]brandedsite[dot]com)

1: Guarantee delivery due to nice packing and smart shipping (www brandedsite com)

2: Good price and quality (www[dot]brandedsite[dot]com)

3: L&B, B&H, Benson, Hedges, Super Kings and Other Brand Cigarettes
www brandedsite com
only welcome serious buyer from all over the world to contact for more
info!!!

brandedsite[@]hotmail[dot]com   (www[dot]brandedsite[dot]com)

www brandedsite com

From -5861475547292449204
X-Google-Thread: fc2a5,f8979e46724e07c7
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f36g2000hsa.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply
Date: Wed, 16 Jul 2008 07:18:41 -0700 (PDT)
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Lines: 95
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     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:361

raypsi wrote:
> The voltage gain of darlingtons is less that unity as a emitter
> follower. but not the current gain. The base current is like 20 ma.

> and the collector is like 20 amps that's a gain of 100. A good
> regulator like a LM723 can regulate that easy. If the gain ain't there
> in the darlingtons you need a drive transistor.

Huh, I thought the 723 was a voltage regulator, not current. Im sorry
but what you are saying just doent make sense to me. It is my
understanding that the greater current gain of the Darlington
transistors is just going result in the 723 seeing a lighter load wich
would be godd for the 723. Perhaps that could be a problem if it were
light enough, maybe this would result in the 723 becoming unstable but
this does not appear to ba a problem with light loads, no loads or
heavy loads.
When I first started working on the power supply there was one tiny
problem using the Darlingtons that was more a result of the poor
design of the origonal circuit than anything else. The the origonal
circuit monitored the ouput voltage at the base of the pass
transistors. Because of the 1.6 base to emiter drop of the darlingtons
the output voltage was a little low. After moving the pick off point
to the emitter I no longer had this problem.
>
> I use a 0.1 ohm 50watt resistor series with the output, that gives me
> an extra 2 volt drop that isn't across the transistor and keeps 40
> watts from heating up the output. You still lose 40 watts. It just
> goes up in the resistor. The 0.1 ohm 50 watt is only good for like 22
> amps.
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> Put a fan on the heatsink. 170 watts will get hot all the time.
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> cooler.
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>
> You have a high transformer voltage because it's a 50 amp supply and
> you are running it at only 20 amps.
>
> On Jul 15, 8:23=EF=BF=BDam, jimmi...@gmail.com wrote:
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> >
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> > > (because of the high gain of the darlingtons). =EF=BF=BDThe feedback =
loop in the
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=EF=BF=BDIt probably
> > > can't because the gain of the darlingtons is too high, and the output=
 stays
> > > banged against the input rail (22V).
> >
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```
> > power supply of similar size only provides about 18 volts to the
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ut half
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> > transistors in paralell with the two I have. I think this would
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> > call them) 8x8x10 inches finned inside and out. The transistor body is
> > mount on the outside =EF=BF=BDwithe the wires going down the inside of =
the
> > chimney. The end of the chimney is designed to take a muffin fan.
> >
> > Jimmie


I added two more pass transistors and this seems to have helped a lot.
I was once given a rule of thumb that a TO3 transistor should never
have to handle more than about 7 amps continously. I was pushing them
to 10amps. Even though they are rated at 50A they will not handle
anywhere near that without extreme measures to keep them cool.
Interesting note, at 40amps they dont get is hot with 4 transistors as
it did with 20amps with 2 transistors. I didnt check yet but I suspect
that is because the voltage at the ouput of the filter rectifier is
beginning to drop off a bit. If I continue to try to use this power
supply  I would probably increase the number of pass transistors to 8.
This would be easy to do as the existing heatsink is already prepared
for it.

Thanks much for the advice
Jimmie


From 2771677846372950003
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mail
From: ampsbasestation@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Help finding a couple of 790Mhz filters...
Date: Wed, 16 Jul 2008 11:17:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
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     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:362
```

Hi All,

I am building another one of my toys http://tinyurl.com/6x3a9m and need a couple more two pole Gigafil thro hole filters centered around 785Mhz - 795Mhz, I need this for the RX LO for Base Station receiver. The last one was scavenged from an old AMPS phone, see http://tinyurl.com/626k4c.

Yes, I know that this isn't quite ham radio, but it is experimentation just the same...

If anyone can help with either parts in the junk drawers, or know of a supplier I will be most grateful. SMT parts will work at a pinch.

This is a non-commercial project.

Thanks,

Mark

```
From 5480156777992941907
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mail
From: Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CTCSS For FDK Multi 7
Date: Thu, 17 Jul 2008 04:03:18 -0700 (PDT)
Organization: http://groups.google.com
Lines: 19
Message-ID: <5db92ba7-e2aa-46ef-9d04-f8234fc9900f@s50g2000hsb.googlegroups.com>
References: <aa2289ca-f4f1-4acd-bf9f-abdb55f05aa7@l64g2000hse.googlegroups.com>
NNTP-Posting-Host: 218.215.175.226
Mime-Version: 1.0
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     Gecko/20080702 Firefox/2.0.0.16,gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2814

On Jul 6, 6:57 pm, vk3f...@gmail.com wrote:
> Our local repeater has just started to use CTCSS and my poor old 2m
> Rig has no CTCSS.
> Has anyone got a simple circuit for this, also i think i will need a
> circuit diargam for the radio. It is an old FDK Multi7, crystal rig.
>
> Any help or suggestions would be great!
>
> Andre
>
> VK3FASW

Hi Andre,
there are any number of circuits out there on the web - Google is your
friend. I did this a while ago, but cant find the URL on my ever more
congested hard drive....lots using PICs, which is fine, but some used
a 555 for a spot frequency.

Andrew VK3BFA.


From 3823576197281450253
X-Google-Thread: fc2a5,823b7d0a5be90cbd,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m36g2000hse.googlegroups.com!not-for-
mail
From: joshhemming@fastmail.fm
Newsgroups: rec.radio.amateur.homebrew
Subject: Measure Signal Generator with Oscilloscope?
Date: Thu, 17 Jul 2008 11:50:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <260b3c91-6ee2-43f2-8034-e3647f03cb10@m36g2000hse.googlegroups.com>
NNTP-Posting-Host: 4.240.153.194
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1216320646 23088 127.0.0.1 (17 Jul 2008 18:50:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 17 Jul 2008 18:50:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m36g2000hse.googlegroups.com; posting-host=4.240.153.194;
```

posting-account=QmtYiAkAAAD8x_FZIcTukKyn1tz9-Y4N
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2815

I bought an old Heathkit IG-42 "Laboratory Generator" at a flea
market
the other day. It powers up OK but I don't have anything to test it
with except a TEK 465 O-scope. I looked for an output with the scope
but couldn't find anything. I know the scope is working because its
1K hz calibration signal looks fine.

The generator dial goes from 100 KC to 30 MC.   Is this too high a
frequency to be monitored with a 465?

From 3650848662533240264
X-Google-Thread: fc2a5,823b7d0a5be90cbd
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!npeer02.iad!
news.highwinds-media.com!feed-me.highwinds-media.com!post02.iad!
newsfe09.iad.POSTED!7564ea0f!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <260b3c91-6ee2-43f2-8034-e3647f03cb10@m36g2000hse.googlegroups.com>
Subject: Re: Measure Signal Generator with Oscilloscope?
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <wLMfk.542$eE4.61@newsfe09.iad>
NNTP-Posting-Host: khdicafigbelohialjaamplfegodoedl
X-Complaints-To: abuse@charter.net
X-Trace:
gbibggbfamgkfdioelpgibjinfhnghafpmjmhdihklpeakackhdicafigbelohiamfnpdmcifhcljkjafh
dhnjkonhlhgmogbaddnmeohapdcddifahdhkdjbpgfjmabbgjklipccefckbgb
NNTP-Posting-Date: Thu, 17 Jul 2008 19:07:08 UTC
Date: Thu, 17 Jul 2008 15:07:05 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:365

<joshhemming@fastmail.fm> wrote in message
news:260b3c91-6ee2-43f2-8034-e3647f03cb10@m36g2000hse.googlegroups.com...

> The generator dial goes from 100 KC to 30 MC.   Is this too high a

> frequency to be monitored with a 465?

no

..

```
From -6620276668026617991
X-Google-Thread: fc2a5,feaa26acc8d5365f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix1.panix.com!arthures
From: A <arthures@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Newsgroup Elimination
Date: Fri, 27 Jun 2008 21:13:20 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 174
Message-ID: <Pine.NEB.4.64.0806272033070.18487@panix1.panix.com>
References: <q6f6k.61015$Ni1.7141@trnddc01>
<CPU6k.8715$LL4.3671@bignews7.bellsouth.net>
 <3d6dnT6Cq6z-fcHVnZ2dneKdnZydnZ2d@pipex.net>
<Pine.NEB.4.64.0806241638240.11735@panix2.panix.com>
 <slrng62uc9.15dt.bit-bucket@shell.config.com>
<Pine.NEB.4.64.0806252352340.15683@panix3.panix.com>
 <Pine.LNX.4.64.0806252355280.8467@darkstar.example.org>
NNTP-Posting-Host: panix1.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1214615601 4910 166.84.1.1 (28 Jun 2008 01:13:21 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 28 Jun 2008 01:13:21 +0000 (UTC)
In-Reply-To: <Pine.LNX.4.64.0806252355280.8467@darkstar.example.org>
Xref: g2news1.google.com rec.radio.amateur.homebrew:266
```

On Thu, 26 Jun 2008, Michael Black wrote:

> On Wed, 25 Jun 2008, A wrote:
>
>>
>>
>> On Tue, 24 Jun 2008, Allodoxaphobia wrote:
>>
>>> On Tue, 24 Jun 2008 16:39:43 -0400, A wrote:
>>>>
>>>> Did any of you guys look at http://groups.google.com to see if what you
>>>> want is there? There are lots of ways to connect to NG servers that are
>>>> outside of your network (unless they disable nntp protocols).

```
>>>
>>> Ya, but...  Post from Google and a Great Portion of the usenet
>>> population will never see your postings:
>>
>> I have access to three non-Google ISPs and in recent months, the posts have
>> been getting out to all of them just as fast as I can log onto them by
>> telnet and check for myself. They have improved over, say, a year ago.
>>
> You miss the point, though I'm tired of seeing all this off-topic discussion
> in every newsgroup as the clueless post about it rather
> than know what's happening and finding the right place to post.

Lets look at all of the original post that I responded to while you
deleted what the issue was about. Here it is:
******************************
From arthures@panix.com Tue Jun 24 16:39:43 2008



Did any of you guys look at http://groups.google.com to see if what you want
is there? There are lots of ways to connect to NG servers that are outside
of your network (unless they disable nntp protocols).

On Sat, 21 Jun 2008, Highland Ham wrote:

> ken scharf wrote:
> > Right now I am using AT&T (bellsouth) DSL.  If they drop the news groups
> > and Comcast doesn't, I think bellsouth will lose both my phone and
> > internet business.  It's nice to have TWO providers of the same service
> > competing with each other!
> =======================================
> Agreed, this is rather OT ,but if you have a (A)DSL connection with a
> provider in the USA , do you have to 'sit out' a say 12 months contract
> before you can switch or can you switch at any time ?
>
> Frank   GM0CSZ / KN6WH
>
*******************************

> He's saying that many will filter out posts from google.

As a guy who is presenting himself as: i) non-clueless, ii) complaining
about OT posts and everyone else who is clueless, I think your own
knowledge leaves much to be desired, and iii) your habit of deleting
relevant other material from another poster has the effect of quoting
out of context. You also deleted this part that I authored:

*****************
From arthures@panix.com Wed Jun 25 23:57:59 2008

Whether your post gets "out" far onto the net depends at least to some
degree on where on the net your ISP is located and what kind of traffic
flows there. I've had experience with about a dozen UNIX shell account ISPs
over the last 15 years and in the past there were quite a few that did _not_
```

have good connectivity with other ISPs through the nntp protocol. I'm not overly happy with Google for NG access, but if anyone is unhappy with their own ISP's NG server (they can subscribe or block whatever NGs they feel like) then certainly they should try Google. And, you can even use Google (and other "portals") to find other NG accesses.

****

Too much
> spam, but too much cluelessness. People posting from google without
> any awareness of where they are. People posting from google without
> quoting what they are replying to. People posting from google and
> being clueless about how others see the newsgroup,

As I tried to explain, nntp is not like email. A post goes out in all directions to neighbor ISPs. It is supposed to be relayed to the next nodes, and re-relayed from their. Many years ago I could watch a post start from a point of origination and start appearing at farther out ISPs sometimes hours later. If the local ISP does not _subscribe_ to that newsgroup, then you won't get any posts. If posts don't appear within some upper limit in time, then those posts will never appear period. I am not aware that any ISPs sellectively reject a few or all nntp posts from any source, but many will reject emails based on domains of origin because of spam. ISPs out on remote branches of their network connectivity are the ones that have the poorest "capture" ability and one of my ISPs had such a poor connectivity until they upgraded.

so they think
> doing things like replying to spam with an empty message but a different
> subject header will "fix things";

ISPs can handle thread content based on the subject line or the reference in the header to the original post that the author is responding to.

the rest of the world sees an empty
> message that requires effort to figure out what the post is about since
> we don't see it all on one webpage.

This is your best comment. However, certain newsreaders will group response posts, whether it included some text from the prior post or not, in its proper place in the thread subject (eg. Free Agent). PINE (a Unix newsreader) does not keep response posts in a thread so changing the subject has no effect. Google puts the response post in the same thread and _sometimes) mentions that the subject was changed that the original post was made under. Also, what you see with Google depends on what kind of web browser you use.

However, there are a lot of people who don't follow the courtesy of quoting what they are responding to. Usually these people don't have anything important or significant to say, anyway.

Google has made it too easy
> for people to post to Usenet, so they can post without giving any

> thought to what already exists.

Such as the relevant material I wrote that you deleted. For a free service, Google does a lot for people. The problem is that people are either not knowing what they are doing or refuse to use good operating practices when trying to carry on dialog. My observation that most conversations are neither informative or cooperative seems to indicate a fairly widespread deficiency in human intelligence.

> They too often think a newsgroup
> is a hangout,

This is a description of the reality about newsgroups rather than any error on the part of NG posters and lurkers. NGs really are hangouts, just like bars.

> where anything goes

This is also a description of reality (unless you want to belong to a moderated NG or a website chatroom where you can get censored by the owner/manager, and be exposed to advertising, malicious code being downloaded on your box, and your logins going into a database).

so long as everyone shares the
> common interest of the newsgroup.

There is very little "common interest". Spamers come to spam. Bloggers come to harvest people off NGs to go to their blog. Everyone else has their own agenda. I know what some of the agendas are and skip over those and go to the next ones.

SO rather than find a newsgroup
> where a post is on-topic, they post where their "buddies" are.

And, I think this is just fine. If a guy doesn't like some post, he can't say anyone forced him to read it. Ultimate freedom of speech.

> With each little bit, the newsgroups degrade just a little bit more.

Trouble is, there are also a lot of guys out there who are self-appointed judges of what is on-topic or off-topic, what is right and wrong, and they constantly bitch about everyone else while they play the roll of NG-cop and say everyone but themselves is doing it all wrong.

> Drive out the ones who know what they are doing, and then the clueless
> can do whatever they like.

You can also start your own group or mailing list, and invite all of the people that you find acceptable and play the game called "snob," too.

> Michael VE2BVW
>
>

```
From -3965263787505383497
X-Google-Thread: fc2a5,eb3c08f283a3f44f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i18g2000prn.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Group Delay Variation - How much is too much?
Date: Fri, 27 Jun 2008 22:25:58 -0700 (PDT)
Organization: http://groups.google.com
Lines: 7
Message-ID: <2381ef04-79bf-4a73-85f3-5783ec3556f7@i18g2000prn.googlegroups.com>
References: <ee282ed6-28e6-4135-97a7-5d8f56d6eaa0@59g2000hsb.googlegroups.com>
     <fa048135-72aa-4979-bdf0-5e98e4815d3a@34g2000hsf.googlegroups.com>
     <4daba4e1-a3a3-4db1-8137-930e1d37efa0@v1g2000pra.googlegroups.com>
     <d1c23d94-d6c8-4796-9df1-5cdecca96381@w8g2000prd.googlegroups.com>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1214630759 10490 127.0.0.1 (28 Jun 2008 05:25:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 28 Jun 2008 05:25:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i18g2000prn.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:267

On Jun 27, 2:16 pm, AF6AY <LenAnder...@ieee.org> wrote:
...
> I use LTSpice from National Semi-
> conductor...

My friends at Linear Technology will be most interested to hear that,
Len.



From -4383143357474193494
X-Google-Thread: fc2a5,eb3c08f283a3f44f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!w8g2000prd.googlegroups.com!not-for-
mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Group Delay Variation - How much is too much?
Date: Sat, 28 Jun 2008 08:02:02 -0700 (PDT)
```

```
Organization: http://groups.google.com
Lines: 30
Message-ID: <9a76c6f2-b4f3-4c0b-a9b3-7e0d8fa880c9@w8g2000prd.googlegroups.com>
References: <ee282ed6-28e6-4135-97a7-5d8f56d6eaa0@59g2000hsb.googlegroups.com>
     <fa048135-72aa-4979-bdf0-5e98e4815d3a@34g2000hsf.googlegroups.com>
     <4daba4e1-a3a3-4db1-8137-930e1d37efa0@v1g2000pra.googlegroups.com>
     <d1c23d94-d6c8-4796-9df1-5cdecca96381@w8g2000prd.googlegroups.com>
     <2381ef04-79bf-4a73-85f3-5783ec3556f7@i18g2000prn.googlegroups.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1214665323 14268 127.0.0.1 (28 Jun 2008 15:02:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 28 Jun 2008 15:02:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w8g2000prd.googlegroups.com; posting-host=207.200.116.11;
     posting-account=0Q4qJQoAAAB4vjIbnPnpY8JqAcYZv7Os
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
     SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
3.0.04506),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-ntc-tb03.proxy.aol.com[CFC87023] (Prism/1.2.1), HTTP/1.1
     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:268
```

On Jun 27, 10:25=EF=BF=BDpm, K7ITM <k7...@msn.com> wrote:

> On Jun 27, 2:16 pm, AF6AY <LenAnder...@ieee.org> wrote:
> ...
>
> > I use LTSpice from National Semi-
> > conductor...
>
> My friends at Linear Technology will be most interested to hear that,
> Len.

OOOPS! My bad! :-)

Yes, LINEAR TECHNOLOGY CORPORATION did LTSpice...an improvement over their previous SPICE derivative done to promote their switcher ICs.

Apologies all around to Linear Technology friends. They make fine ICs.

I also have, but have not tried TINA from Texas Instruments, another SPICE derivative. Not enough time here to try everything out that is available. TINA is also free for download but it is harder to get through their web pages to do so.
I don't have any friends at TI or Linear or at National Semi, I just use their good products...just like I am currently using a couple of

LM337s using National's
appnote information in a slightly different way.

73, Len AF6AY

```
From 8569977947741307028
X-Google-Thread: fc2a5,1f150593ae61c212
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!
feeder.news-service.com!news.astraweb.com!border2.a.newsrouter.astraweb.com!
hwmnpeer01.ams!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe20.lga.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <atKdnUYS1-t57snVnZ2dnUVZ_r7inZ2d@comcast.com> <iZ77k.1738$
%q.1060@newsfe24.lga> <sridnbO4GtF2BsPVnZ2dnUVZ_uSdnZ2d@comcast.com>
Subject: Re: teflon wire
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <2hw9k.9184$rH1.5640@newsfe20.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe20.lga 1214681278 72.209.25.33 (Sat, 28 Jun 2008 12:27:58 MST)
NNTP-Posting-Date: Sat, 28 Jun 2008 12:27:58 MST
Organization: Cox
Date: Sat, 28 Jun 2008 15:27:46 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:269
```

"Gary" <gbelcas@comcast.net> wrote in message > Gary

Shipped several pieces, different colors. Hope the gauge is
close enough for your needs.

Pete

```
From -6309944847801567788
X-Google-Thread: fc2a5,f890dac1fffc7dde,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
```

NNTP-Posting-Date: Sat, 28 Jun 2008 15:04:39 -0500
Reply-To: "Leland C. Scott" <kc8ldo@arrl.net>
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: CD4046 and or 74HC4048
Date: Sat, 28 Jun 2008 16:05:32 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <edKdnQmssszKBPvVnZ2dnUVZ_sjinZ2d@comcast.com>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 68.41.138.160
X-Trace: sv3-
NqaTkbIqPk2qRyF+0oUm2YlYg01qWyzfUuaofDXrFIpnKnn+bPx0wMR7RKK0WSj41VeTz3U4GKHyP6I!
RTgw62vTzmGl5r7tSuRkxmBpg5WpztgRcSrwLwDKWxct66VJzXKE1mb3cd8KOAtWHDFKKJe6PcgG!
R2s8LLO8rdhbO1MQ9zBKxo+q4FRpkQ==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:270

Anybody have a MathCAD, Excel, Scilab or Octave worksheet for designing with the CD4046 or 74HC4046 PLL chips? I'm looking for something that allows one to input desired VCO frequency, offset or center frequency and loop frequency with bandwidth. The worksheet should generate the required component values. I can do this by hand but I have a lot of test cases I want to investigate so doing the calculations by hand is a bit time consuming. I don't want to spend a week doing a worksheet up from scratch if somebody has one they are willing to share.

--
Regards,
Leland C. Scott
KC8LDO

http://www.gnu.org/software/octave/

http://www.scilab.org/platform/

http://www.sagemath.org/

From -8597181189722073653
X-Google-Thread: fc2a5,f890dac1fffc7dde

X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 28 Jun 2008 19:03:18 -0500
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups: rec.radio.amateur.homebrew
References: <edKdnQmssszKBPvVnZ2dnUVZ_sjinZ2d@comcast.com>
Subject: Re: CD4046 and or 74HC4048
Date: Sat, 28 Jun 2008 20:03:16 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <i6Wdnb4HiNbbTPvVnZ2dnUVZ_jednZ2d@comcast.com>
Lines: 38
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 66.177.11.1
X-Trace: sv3-
NDiPU6xc5dDEcDxkCWl0rZqwAWZnUr3e0GuYzxKgf8xGbn8wlfghuUgng6hH7Mt5qX5ajKpNmWjQOhX!
RFx5D5Lsf7NiWVPjOQlPKKz4a16br2x6czs15nPmIxsfqOdqvZMCnKs5XZhUd690CJDTDtf9cGzB!
b+v8WtET7WQqY6AZk9K/Af4+1k8=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:271

"Leland C. Scott" <kc8ldo@arrl.net> wrote in message
news:edKdnQmssszKBPvVnZ2dnUVZ_sjinZ2d@comcast.com...
> Anybody have a MathCAD, Excel, Scilab or Octave worksheet for designing with
> the CD4046 or 74HC4046 PLL chips? I'm looking for something that allows one to
> input desired VCO frequency, offset or center frequency and loop frequency
> with bandwidth. The worksheet should generate the required component values. I
> can do this by hand but I have a lot of test cases I want to investigate so
> doing the calculations by hand is a bit time consuming. I don't want to spend
> a week doing a worksheet up from scratch if somebody has one they are willing
> to share.
>
>
> --
> Regards,
> Leland C. Scott
> KC8LDO
>

Some links to PLL design software:

This one is a spreadsheet application:

http://www.keystoneradio.com/?n=Main.PLLDesign
Download the last version of the spreadsheet to get all the improvements.

This one is a web-based JAVA application:
http://webench.national.com/appinfo/wireless/webench/index.cgi

An old DOS program, but seems to be pretty good
http://w1.859.telia.com/~u85930032/pll.zip

--
Dave M
MasonDG44 at comcast dot net (Just substitute the appropriate characters in the address)

Experience: What you get when you don't get what you want

```
From 5913774361050423930
X-Google-Thread: fc2a5,f8979e46724e07c7,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
z32g2000prh.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Power supply
Date: Sun, 29 Jun 2008 09:32:47 -0700 (PDT)
Organization: http://groups.google.com
Lines: 7
Message-ID: <a82be280-9eb8-40c2-8b87-2f0c7a4de0ee@z32g2000prh.googlegroups.com>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
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X-Trace: posting.google.com 1214757167 9085 127.0.0.1 (29 Jun 2008 16:32:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 29 Jun 2008 16:32:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z32g2000prh.googlegroups.com; posting-host=204.108.8.5;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:272
```

I have a 12volt home made power supply similar to Astron models. I was told it could handle 30A. The pass transistors are missing and I have some 50 amp NPN darlington transistors on hand I was considering using for replacements. Can you think of any reason these could/should not be used.

Jimmie

```
From 3766432645154558434
X-Google-Thread: fc2a5,f8979e46724e07c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
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nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 29 Jun 2008 12:41:50 -0500
Date: Sun, 29 Jun 2008 10:42:01 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply
References: <a82be280-9eb8-40c2-8b87-2f0c7a4de0ee@z32g2000prh.googlegroups.com>
In-Reply-To: <a82be280-9eb8-40c2-8b87-2f0c7a4de0ee@z32g2000prh.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Tb6dnW3d9J3DVPrVnZ2dnUVZ_gadnZ2d@web-ster.com>
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X-Trace: sv3-W17DdWAyEmHO36zovAuqId6vPoBhabawztKb+iQFLUuiZTVPLlOx/
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lZv4m7fuTOP8aJ+pbzLjPS1G/AV0mXof15z3y8b15x!B0tvzso4r+Q1LPg=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:273
```

jimmie68@gmail.com wrote:

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> told it could handle 30A. The pass transistors are missing and I have
> some 50 amp NPN darlington transistors on hand I was considering using
> for replacements. Can you think of any reason these could/should not
> be used.
>
> Jimmie

Tons, but all of them start with 'maybe'.

The biggest one is 'maybe your power supply was designed for straight transistors' -- if it seems to have hefty current drive to the pass transistor bases, then that would be the case.

Otherwise, go ahead and put in your pass transistors and see what happens.

Keep in mind that those pass transistors may be missing for a reason, and the reason may be that the power supply never worked well in the first place -- so if what you have doesn't work, it may be the design or execution of your circuit, not the transistors themselves.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From 633428052058181469
X-Google-Thread: fc2a5,f8979e46724e07c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!newsfeed.icl.net!
newsfeed.fjserv.net!colt.net!feeder.news-service.com!newsfeed1.swip.net!
newsfeed1.funet.fi!newsfeeds.funet.fi!feeder1.news.saunalahti.fi!
reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply
Message-ID: <udpg64dfkg2t9v5nhpuguu1bb8vavu4tv7@4ax.com>
References: <a82be280-9eb8-40c2-8b87-2f0c7a4de0ee@z32g2000prh.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 33
Date: Mon, 30 Jun 2008 08:04:50 +0300
NNTP-Posting-Host: 85.77.235.153
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1214802290 85.77.235.153 (Mon, 30 Jun 2008
08:04:50 EEST)
NNTP-Posting-Date: Mon, 30 Jun 2008 08:04:50 EEST
Organization: Saunalahti Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:274

On Sun, 29 Jun 2008 09:32:47 -0700 (PDT), jimmie68@gmail.com wrote:

>I have a 12volt home made power supply similar to Astron models. I was
>told it could handle 30A. The pass transistors are missing and I have
>some 50 amp NPN darlington transistors on hand I was considering using
>for replacements. Can you think of any reason these could/should not
>be used.

Some of the Astron power supplies had a separate (higher voltage)
power supply for the control and driver stages and the input-output
voltage difference could be as low as Vce(sat) i.e. below 1 V, thus
the power dissipation could be minimized.

However with a darlington, the minimum voltage drop would be Vce(sat) for the driver transistor and Vbe for the big transistor, thus requiring a higher transformer secondary voltage and hence suffer a large dissipation in the series pass transistors.

Note also that even if the darlington could handle 50 A, the power dissipation for TO-3 packages are typically in the 100-150 W range so a single transistor could tolerate only 3-5 V voltage drop at 30 A. However, those power dissipation figures apply for 25 C case temperature, so in practice, this could be achieved only if the transistor and the heat sing is submerged into running cold tap water:-).

So in practice, you would have to use several darlingtons in parallel with large heat sinks and also use larger emitter resistors to balance out the gain differences between darlingtons. This may require a slightly higher transformer secondary voltage.

Paul OH3LWR

```
From 4785821908654785866
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
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news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 30 Jun 2008 06:50:17 -0500
Date: Mon, 30 Jun 2008 23:50:20 +1200
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: source of crystals for Kenwood transceiver upgrade.
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 080629-0, 29/06/2008), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-11-119.dsl.telstraclear.net
Message-ID: <4868c876$1@clear.net.nz>
X-Original-Trace: 30 Jun 2008 23:50:14 +1200, 121-72-11-119.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 14
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X-AuthenticatedUsername: news10531
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X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:275
```

Good day all!
I have an old Kenwood TS-820 that I've already upgraded somewhat, but I
would like to try adding the WARC bands at 10,18 and 24 MHz.
The rig only cost me $50 so I was horrified when I discovered that
crystals for the job are now priced @ $65 US each + shipping!!!
The frequencies aren't very unusual so obviously I am looking for
someone who has them available for a more reasonable rate.
As it stands it just isn't worth the cost of over $250 NZ.
The Xtals are on 15.5 23.5 and 30 MHz and are standard miniature types.
If any one can help me out please drop me an Email and let me know how I
can pay for them.
73's
Cliff Wright ZL1BDA ex G3NIA

```
From 6481333266795261319
X-Google-Thread: fc2a5,398dcadab0fdea13
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!l42g2000hsc.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: source of crystals for Kenwood transceiver upgrade.
Date: Mon, 30 Jun 2008 06:58:33 -0700 (PDT)
Organization: http://groups.google.com
Lines: 41
Message-ID: <5cf107cf-d870-48c0-9145-5029d2528e76@l42g2000hsc.googlegroups.com>
References: <4868c876$1@clear.net.nz>
NNTP-Posting-Host: 170.121.15.44
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 30 Jun 2008 13:58:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l42g2000hsc.googlegroups.com; posting-host=170.121.15.44;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:276
```

On Jun 30, 7:50=A0am, cliff wright <c.c.wri...@paradise.net.nz> wrote:
> Good day all!
> I have an old Kenwood TS-820 that I've already upgraded somewhat, but I
> would like to try adding the WARC bands at 10,18 and 24 MHz.
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> can pay for them.
> 73's
> Cliff Wright ZL1BDA ex G3NIA

Cliff -
You will note that many homebrewers prefer to use widely available "microprocessor crystals" for all crystals. Typical prices are $0.50-$2.00 new, and they are widely available from lots of distributors (in the US: Mouser, Digikey, etc.)

30 MHz is a widely available microprocessor crystal available in many holders.

The other two frequencies you want are not microprocessor crystals, but nearby frequencies are available, and if you don't mind the dial reading strangely will work fine. If you've added an outboard counter, some are smart enough to do the math between the VFO and the hetrodyne crystals and it will automagically read correctly. (Small plug: look around and you'll find such smart dials for as little as $10.00).

23.512 MHz is widely available (I think it can be divided down to be a baud rate generator which is why it's a "microprocessor crystal".)

15.36 MHz is also widely available.

While the microprocessor crystals are not the most pristine high-Q crystals available with matching-Kenwood parameters, they will work just fine for hetrodyne oscillators.

Tim N3QE

From 1339624090039137402
X-Google-Thread: fc2a5,44aae470c998d154
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!56g2000hsm.googlegroups.com!not-for-mail
From: AndyS <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wideband receiver architectures

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Date: Mon, 30 Jun 2008 07:12:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 35
Message-ID: <b62a571d-ec26-4403-ae7f-1dbeb87fcdb3@56g2000hsm.googlegroups.com>
References: <rAA5k.186489$Gv.71007@en-nntp-07.dc1.easynews.com>
NNTP-Posting-Host: 66.19.112.43
Mime-Version: 1.0
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X-Trace: posting.google.com 1214835126 26480 127.0.0.1 (30 Jun 2008 14:12:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 30 Jun 2008 14:12:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 56g2000hsm.googlegroups.com; posting-host=66.19.112.43;
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User-Agent: G2/1.0
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     DigExt),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:277
```

Andy writes:

Look in the tech manual for a spectrum analyzer that covers a few Khz to 1.3 Ghz and you will see exactly how it's done.

Typically, the LO runs above 1.3 Ghz and all signals are converted UP to a high IF where the first filter is a wideband SAW. A SAW can have several Mhz bandwidth way up there.

Then the signal is downconverted to an IF that is compatible with the SAW bandwidth to achieve image rejection. The IF filter here is usually something like a crystal or ceramic filter, unless the requirements
for instantaneous bandwidth forces a better group delay response.

The hardest part is keeping the signal linear (intermod, crossmod)
in the presence of multiple simultaneous signals until the SAW and next IF filters are reached.

Lots of tradeoffs have to be made.

These tradeoffs have already been made in spectrum analyzers, so if you get a few different block diagrams of different units, you will
see what specific frequency plans the designers have decided to use.

The frequency plan of the cheapest spectrum analyzer would probably fit your purpose....

Coming up with a good frequency plan in view of the nonlinearities of the mixers used and the bandpass characteristics of the filters one employs is a real challenge sometimes.

Andy in Eureka, Texas

```
From 6655756133241828071
X-Google-Thread: fc2a5,398dcadab0fdea13
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 30 Jun 2008 10:19:43 -0500
Date: Mon, 30 Jun 2008 08:19:56 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: source of crystals for Kenwood transceiver upgrade.
References: <4868c876$1@clear.net.nz>
In-Reply-To: <4868c876$1@clear.net.nz>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Y_idnYFbb7ASZPXVnZ2dnUVZ_qTinZ2d@web-ster.com>
Lines: 33
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X-Trace: sv3-
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NHY+H+yXwt1zBRs+7sMlBxulWBUdSSX03DiQi6896TwExXYoHwMeim6rvDGcy3/VxxgPcSNjOErf!
9o4O4Ja+QlYcyjg=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:278

cliff wright wrote:
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> The Xtals are on 15.5 23.5 and 30 MHz and are standard miniature types.
> If any one can help me out please drop me an Email and let me know how I
> can pay for them.
> 73's
> Cliff Wright ZL1BDA ex G3NIA
>
JAN Crystals in the US will make these up for you, as will International
Crystal Manufacturing.  They're both on the web.
```

Dunno what difficulties you'll have getting them into New Zealand.

You may want to check to see if there are any crystal manufacturers in other countries that may have what you need at less cost -- I'm really only familiar with these two.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From 3632372023963325325
X-Google-Thread: fc2a5,1f94ac2320a64911,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wn11feed!worldnet.att.net!bgtnsc05-
news.ops.worldnet.att.net.POSTED!7bd46aa5!not-for-mail
From: "numeric" <numeric@att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Home made PCB?
Lines: 34
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Message-ID: <lu8ak.84773$102.1248@bgtnsc05-news.ops.worldnet.att.net>
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X-Trace: bgtnsc05-news.ops.worldnet.att.net 1214845969
03e05545260c7be2de22eff3f27c7cfd (Mon, 30 Jun 2008 17:12:49 GMT)
NNTP-Posting-Date: Mon, 30 Jun 2008 17:12:49 GMT
Organization: AT&T Worldnet
Date: Mon, 30 Jun 2008 17:12:49 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:279
```

Hi,

I would like to build a PCB board with fine pitch (LQFP32) and very small surface mount parts (1206 and smaller) parts. The board is a simple 24 bit A/D and D/A converter with a full speed (12 Mbs) USB2 interface; although I would prefer the USB2 high speed interface (480 Mbs). The temptation is too hard to resist using today's microprocessors such as SiLabs C8051F350 (basically an 8051 cpu). I know that a commercial 4 layer PCB with a solder mask would probably work for homebrew construction; but the board cost is high.

So what is the chance of a double sided PCB without solder mask working with very small parts? The process I would use in either case would be:

1. Place solder paste on all pads. Typically, when heated the solder will vacate between pins and will suck up, like a magnet, under the SMD pin.

2. Place glue under parts that will possible move when the board is handled.

3. Heat the PCB in a toaster oven until soldered. Manually follow the heat up and cool down time curves for type of solder paste used.

Comments/suggestions are appreciated.

From 6238443925103462374
X-Google-Thread: fc2a5,1f94ac2320a64911
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!y38g2000hsy.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Home made PCB?
Date: Mon, 30 Jun 2008 10:56:24 -0700 (PDT)
Organization: http://groups.google.com
Lines: 45
Message-ID: <8fd5be5c-7d6c-43ee-8afa-fbff3a953e37@y38g2000hsy.googlegroups.com>
References: <lu8ak.84773$102.1248@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: 170.121.15.46
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1214848585 8520 127.0.0.1 (30 Jun 2008 17:56:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 30 Jun 2008 17:56:25 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y38g2000hsy.googlegroups.com; posting-host=170.121.15.46;
posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:280

On Jun 30, 1:12=A0pm, "numeric" <nume...@att.net> wrote:
> Hi,
>
> I would like to build a PCB board with fine pitch (LQFP32) and very small
> surface mount parts (1206 and smaller) parts. The board is a simple 24 bit=

> A/D and D/A converter with a full speed (12 Mbs) USB2 interface; although =
I
> would prefer the USB2 high speed interface (480 Mbs). The temptation is to=
o
> hard to resist using today's microprocessors such as SiLabs C8051F350
> (basically an 8051 cpu). I know that a commercial 4 layer PCB with a solde=
r
> mask would probably work for homebrew construction; but the board cost is
> high.
>
> So what is the chance of a double sided PCB without solder mask working wi=
th
> very small parts? The process I would use in either case would be:
>
> 1. Place solder paste on all pads. Typically, when heated the solder will
> vacate between pins and will suck up, like a magnet, under the SMD pin.
>
> 2. Place glue under parts that will possible move when the board is handle=
d.
>
> 3. Heat the PCB in a toaster oven until soldered. Manually follow the heat=

> up and cool down time curves for type of solder paste used.
>
> Comments/suggestions are appreciated.

LQFP32 is not ridiculously fine pitch (I do 0.65mm pitch parts by hand
all the time), and 1206 is just enormous in the SMT world.

I do both by hand all the time - just a Weller WTCPT with 0.015"
solder. No solder mask for me (I use ExpressPCB cheapo boards) but
pretinning does help. Sometimes flux comes in handy but is not really
necessary. Just lay the solder down across the leads, melt on with the
soldering iron, go back and clean up any blobs with solder-wick.

Toaster oven is great for BGA's but if there's only a few leaded SMT
parts it seems like way overkill.

Tim N3QE

From -5827387281905368595
X-Google-Thread: fc2a5,398dcadab0fdea13
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.germany.com!newsfeed.datemas.de!

news.albasani.net!not-for-mail
From: Steve H <steveqqqqqqqqqqwwwwwwwwwweeeeeeeeeeerrrrrrrrrrrrrrtttttttttttttttyyyyyyyyyyyyyyyyyaaaaaaaaaaaassssssssssssssssddddddddddddddddddffffffffffffffggggggggghhhhhhhhhhhhhhhhhhh@tfif.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: source of crystals for Kenwood transceiver upgrade.
Date: Mon, 30 Jun 2008 20:15:39 +0100
Organization: not a lot
Lines: 20
Message-ID: <g4bbcr$c4t$1@news.albasani.net>
References: <4868c876$1@clear.net.nz>
Reply-To: steveqqqqqqqqqqwwwwwwwwwweeeeeeeeeeerrrrrrrrrrrrrrtttttttttttttttyyyyyyyyyyyyyyyyyaaaaaaaaaaaassssssssssssssssddddddddddddddddddffffffffffffffggggggggghhhhhhhhhhhhhhhhhhh@tfif.co.uk
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net GCSN3Sg6XDmrf4GOtxyTeZMyB67B55dqxHbFpMoCnvz06rJW+zY700KYhqKI1xpanFjVF8yToENQaaY7nvHTXMZQxvlBYREJIVXsRXtY+lIKjjUoPwgb/+wkxt+7NZyg
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Mon, 30 Jun 2008 19:15:40 +0000 (UTC)
X-User-ID: 932niAx0WK6aXdy2nq2DTgbNLysa/FULiSAq/U4lL+A=
In-Reply-To: <4868c876$1@clear.net.nz>
Cancel-Lock: sha1:5SGcHeRXoEHtgfPT2mmSTbPvTuM=
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
X-NNTP-Posting-Host: eKAdCCD/VQHKrQV1bRyY6AM/rOdtgNcIh3TLVbWJlm0=
Xref: g2news1.google.com rec.radio.amateur.homebrew:281

cliff wright wrote:
> Good day all!
> I have an old Kenwood TS-820 that I've already upgraded somewhat, but I
> would like to try adding the WARC bands at 10,18 and 24 MHz.
> The rig only cost me $50 so I was horrified when I discovered that
> crystals for the job are now priced @ $65 US each + shipping!!!
> The frequencies aren't very unusual so obviously I am looking for
> someone who has them available for a more reasonable rate.
> As it stands it just isn't worth the cost of over $250 NZ.
> The Xtals are on 15.5 23.5 and 30 MHz and are standard miniature types.
> If any one can help me out please drop me an Email and let me know how I
> can pay for them.
> 73's
> Cliff Wright ZL1BDA ex G3NIA
>

Try http://www.quartslab.com/ , they are happy to supply radio amateurs
and can provide any frequency to order for a fair price. (less than $20.00)

Steve H

```
From -21957672535338261
X-Google-Thread: fc2a5,44aae470c998d154
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-
in-01.newsfeed.easynews.com!news-in-02.newsfeed.easynews.com!core-easynews!
easynews.com!easynews!en-nntp-08.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <rAA5k.186489$Gv.71007@en-nntp-07.dc1.easynews.com> <b62a571d-
ec26-4403-ae7f-1dbeb87fcdb3@56g2000hsm.googlegroups.com>
Subject: Re: Wideband receiver architectures
Lines: 5
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.5512
X-RFC2646: Format=Flowed; Original
Message-ID: <rOaak.174764$Uf4.93424@en-nntp-08.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Mon, 30 Jun 2008 12:50:44 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:282
```

Thanks Andy, that was most helpful.

---Joel

```
From 8951292875781301989
X-Google-Thread: fc2a5,1f94ac2320a64911
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y38g2000hsy.googlegroups.com!not-for-
mail
From: Leon <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Home made PCB?
Date: Mon, 30 Jun 2008 12:59:11 -0700 (PDT)
Organization: http://groups.google.com
Lines: 29
Message-ID: <43fc4314-4163-45d1-a7f2-bf630c11c86e@y38g2000hsy.googlegroups.com>
References: <lu8ak.84773$102.1248@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: 86.145.228.233
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1214855952 23921 127.0.0.1 (30 Jun 2008 19:59:12 GMT)
X-Complaints-To: groups-abuse@google.com
```

NNTP-Posting-Date: Mon, 30 Jun 2008 19:59:12 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y38g2000hsy.googlegroups.com; posting-host=86.145.228.233;
posting-account=QWZLZQkAAADFmB_RJlmk3T-GvINRaZti
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9)
Gecko/2008052906 Firefox/3.0,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:283

On 30 Jun, 18:12, "numeric" <nume...@att.net> wrote:
> Hi,
>
> I would like to build a PCB board with fine pitch (LQFP32) and very small
> surface mount parts (1206 and smaller) parts. The board is a simple 24 bit
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> Comments/suggestions are appreciated.

I don't have any problems making PCBs at home for 0.5 mm lead spacing
QFPs, or soldering them. by hand (drag soldering).

Leon

From 6235916776897898119
X-Google-Thread: fc2a5,1f94ac2320a64911
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!wn11feed!
worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!7bd46aa5!not-for-mail
From: "numeric" <numeric@att.net>
Newsgroups: rec.radio.amateur.homebrew
References: <lu8ak.84773$102.1248@bgtnsc05-news.ops.worldnet.att.net>
<8fd5be5c-7d6c-43ee-8afa-fbff3a953e37@y38g2000hsy.googlegroups.com>
Subject: Re: Home made PCB?
Lines: 29
X-Priority: 3

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Message-ID: <6qbak.85157$102.20465@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: 140b2de189c9078efb38a8163182c282
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1214857986 140b2de189c9078efb38a8163182c282 (Mon, 30 Jun 2008 20:33:06 GMT)
NNTP-Posting-Date: Mon, 30 Jun 2008 20:33:06 GMT
Organization: AT&T Worldnet
Date: Mon, 30 Jun 2008 20:33:06 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:284

"Tim Shoppa" <shoppa@trailing-edge.com> wrote in message
news:8fd5be5c-7d6c-43ee-8afa-fbff3a953e37@y38g2000hsy.googlegroups.com...

LQFP32 is not ridiculously fine pitch (I do 0.65mm pitch parts by hand all the time), and 1206 is just enormous in the SMT world.

I do both by hand all the time - just a Weller WTCPT with 0.015" solder. No solder mask for me (I use ExpressPCB cheapo boards) but pretinning does help. Sometimes flux comes in handy but is not really necessary. Just lay the solder down across the leads, melt on with the soldering iron, go back and clean up any blobs with solder-wick.

Toaster oven is great for BGA's but if there's only a few leaded SMT parts it seems like way overkill.

Tim N3QE

Thanks for the reply.

You are correct, a 1206 is a large SMD component and I will try to use them wherever possible. However, smaller (0402 and larger) may also be used. It is encouraging to hear about successful fine pitch results with hand solder techniques. In addition, it will certainly be useful for parts placed on both sides of the PCB.

From -3112714321756617429
X-Google-Thread: fc2a5,fbeb9133de6af86e,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.litech.org!not-for-mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Hams take note: qth.net/qsl.net: is it just me?

Date: Mon, 30 Jun 2008 20:40:39 +0000 (UTC)
Organization: Me?
Lines: 10
Sender: mikea@mikea.ath.cx
Message-ID: <g4bgc7$82i$1@puck.litech.org>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1214858439 8274 70.164.65.62 (30 Jun 2008 20:40:39 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Mon, 30 Jun 2008 20:40:39 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: that's right
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news1.google.com rec.radio.amateur.homebrew:285

Is anyone else having trouble seeing, or getting mail to, any of the
lists based at qsl.net or qth.net? They appear to have fallen off the
edge of the 'Net, and DNS for both domains is failing right now for me.

Thanks & 73, de

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From -7130160574355669013
X-Google-Thread: fc2a5,1f94ac2320a64911
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wn11feed!worldnet.att.net!bgtnsc04-
news.ops.worldnet.att.net.POSTED!7bd46aa5!not-for-mail
From: "numeric" <numeric@att.net>
Newsgroups: rec.radio.amateur.homebrew
References: <lu8ak.84773$102.1248@bgtnsc05-news.ops.worldnet.att.net>
<43fc4314-4163-45d1-a7f2-bf630c11c86e@y38g2000hsy.googlegroups.com>
Subject: Re: Home made PCB?
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Message-ID: <pBbak.167256$SV4.153009@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: 8cfc78fc35c27bd58e93d993162bcb08
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1214858709
8cfc78fc35c27bd58e93d993162bcb08 (Mon, 30 Jun 2008 20:45:09 GMT)
NNTP-Posting-Date: Mon, 30 Jun 2008 20:45:09 GMT
Organization: AT&T Worldnet
Date: Mon, 30 Jun 2008 20:45:09 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:286

"Leon" <leon355@btinternet.com> wrote in message
news:43fc4314-4163-45d1-a7f2-bf630c11c86e@y38g2000hsy.googlegroups.com...

> I don't have any problems making PCBs at home for 0.5 mm lead spacing
> QFPs, or soldering them. by hand (drag soldering).
>
> Leon

Thanks for the reply. I have though about using a laser printer to print a negative image on clear Mylar. Then expose a photo sensitive PCB to the negative image. The laser printer does print very sharp lines as visible using a 10X loop. The quality should be good enough for fine pitch. The etching process however may end up in disaster with fine pitch lines.
How do you make the PCB?

```
From -3148177637381831356
X-Google-Thread: fc2a5,1f94ac2320a64911
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!p25g2000hsf.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Home made PCB?
Date: Mon, 30 Jun 2008 13:59:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 30
Message-ID: <8f3340f4-327c-4992-a85c-0badb6c16ad1@p25g2000hsf.googlegroups.com>
References: <lu8ak.84773$102.1248@bgtnsc05-news.ops.worldnet.att.net>
     <8fd5be5c-7d6c-43ee-8afa-fbff3a953e37@y38g2000hsy.googlegroups.com>
     <6qbak.85157$102.20465@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: 170.121.15.44
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1214859571 2307 127.0.0.1 (30 Jun 2008 20:59:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 30 Jun 2008 20:59:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p25g2000hsf.googlegroups.com; posting-host=170.121.15.44;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:287
```

On Jun 30, 4:33=A0pm, "numeric" <nume...@att.net> wrote:

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> em

> wherever possible. However, smaller (0402 and larger) may also be used. I=
t
> is encouraging to hear about successful fine pitch results with hand sold=
er
> techniques. In addition, it will certainly be useful for parts placed on
> both sides of the PCB.

For my purposes, 0603 is the "standard" size SMD part to use when I
have a choice. Of course power parts are gonna be bigger.

I mean, just so you don't scare yourself, look at the bottom of a
TO-92 transistor that you've been soldering for 30 years or more. The
pitch there 0.05 inches or 0.127 mm. And you do those all the time.
Your LQFP is finer pitch, but not ridiculously so. So don't set
yourself up with the mental attitude that it's gonna be hard, because
it isn't going to be hard!

I have occasionally used 0402 and even 0201 parts when they weren't
available in 0603... I struggled with 0201, and 0402 required a lot of
concentration. By comparison the 0.65mm pitch parts were a piece of
cake.

And finally, don't ignore the option of doing "dead bug" with SMT
parts. Very fun for low-lead-count analog parts... and possible though
questionable for digital stuff with lotsa leads.

Tim.

From -7469928436937033379
X-Google-Thread: fc2a5,1f94ac2320a64911
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!59g2000hsb.googlegroups.com!not-for-mail
From: Leon <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Home made PCB?
Date: Mon, 30 Jun 2008 14:23:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <06db7ee6-3902-49de-b194-dd5e1e5a5eba@59g2000hsb.googlegroups.com>
References: <lu8ak.84773$102.1248@bgtnsc05-news.ops.worldnet.att.net>
<43fc4314-4163-45d1-a7f2-bf630c11c86e@y38g2000hsy.googlegroups.com>
<pBbak.167256$SV4.153009@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: 86.145.228.233
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1214861036 6993 127.0.0.1 (30 Jun 2008 21:23:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 30 Jun 2008 21:23:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com

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Injection-Info: 59g2000hsb.googlegroups.com; posting-host=86.145.228.233;
     posting-account=QWZLZQkAAADFmB_RJlmk3T-GvINRaZti
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9)
     Gecko/2008052906 Firefox/3.0,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:288

On 30 Jun, 21:45, "numeric" <nume...@att.net> wrote:
> "Leon" <leon...@btinternet.com> wrote in message
>
> news:43fc4314-4163-45d1-a7f2-bf630c11c86e@y38g2000hsy.googlegroups.com...
>
> > I don't have any problems making PCBs at home for 0.5 mm lead spacing
> > QFPs, or soldering them. by hand (drag soldering).
>
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> negative image. The laser printer does print very sharp lines as visible
> using a 10X loop. The quality should be good enough for fine pitch. The
> etching process however may end up in disaster with fine pitch lines.
> How do you make the PCB?

I use an inkjet printer and JetStar Premium film for the positive
artwork. UV exposure on Fotoboard 2 with pre-coated resist and etching
in ferric chloride.

Leon


From 2991738709043598226
X-Google-Thread: fc2a5,1f94ac2320a64911
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!u6g2000prc.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Home made PCB?
Date: Mon, 30 Jun 2008 16:30:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
Message-ID: <ae8aeb66-0018-449f-91be-142c088b2037@u6g2000prc.googlegroups.com>
References: <lu8ak.84773$102.1248@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1214868627 30769 127.0.0.1 (30 Jun 2008 23:30:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 30 Jun 2008 23:30:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
```

Injection-Info: u6g2000prc.googlegroups.com; posting-host=192.25.142.225;
posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.14)
Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:289

On Jun 30, 10:12 am, "numeric" <nume...@att.net> wrote:

> Hi,
>
> I would like to build a PCB board with fine pitch (LQFP32) and very small surface mount parts (1206 and smaller) parts. The board is a simple 24 bit A/D and D/A converter with a full speed (12 Mbs) USB2 interface; although I would prefer the USB2 high speed interface (480 Mbs). The temptation is too hard to resist using today's microprocessors such as SiLabs C8051F350 (basically an 8051 cpu). I know that a commercial 4 layer PCB with a solder mask would probably work for homebrew construction; but the board cost is high.
>
> So what is the chance of a double sided PCB without solder mask working with very small parts? The process I would use in either case would be:
>
> 1. Place solder paste on all pads. Typically, when heated the solder will vacate between pins and will suck up, like a magnet, under the SMD pin.
>
> 2. Place glue under parts that will possible move when the board is handled.
>
> 3. Heat the PCB in a toaster oven until soldered. Manually follow the heat up and cool down time curves for type of solder paste used.
>
> Comments/suggestions are appreciated.

I agree with Leon and Tim that making a board and mounting parts on it shouldn't be a problem, though I do greatly appreciate being able to do my soldering under a stereo microscope using a Metcal iron.

I commonly use boards coated with positive resist (from Circuit Specialists in the Phoenix area), etched by floating them on top of ferric chloride. I find that (lacking a spray etcher) the float process maintains fine line resolution--I have a theory that it has to do with copper-laden etchant being heavier and falling away from the etch site, but whatever, it works well for me. Surface tension will hold fairly large boards up, but you can also just put support at the corners and let the board submerge. Resolution for me is always limited by the quality of the transparency. Thanks to Leon for posting a reference to another film material to try. I've had the best luck using an Epson inkjet printer: my HP printer doesn't do as well, and laser printers typically don't print a dense enough black. Pinholes WILL print on the board! I use a back-light film setting on the Epson for highest density. An alternative is to get a photoplotting shop to do the film for you: better quality but it lacks the immediacy of being able go from layout to board in minutes. Anyway, the best inkjet printed transparencies will allow me to do 5 mil lines with 5 mil spaces if I'm careful, and 8/8 pretty easily. Most of my work is with 0805 as the standard passive, since that's what I invested in an assortment of back a few years ago, but I also do 0603 with no trouble, and lead pitches down to 0.5mm. We have fancy equipment to do BGA rework here at work, and the trained techs have marginal success with it at best (for large parts), so I've avoided BGAs in my home projects.

By the way, if you get boards from Circuit Specialists, be aware that what they call 1 ounce copper is really 0.5 ounce...seldom a problem and allows faster etching and it's easier to make fine lines, but be aware of it for high current traces.

Cheers,
Tom

From 2329104239861822172
X-Google-Thread: fc2a5,f8979e46724e07c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 30 Jun 2008 22:19:19 -0500
From: "gb" <w9nogbspam@arrlspamno.net>
Newsgroups: rec.radio.amateur.homebrew
References: <a82be280-9eb8-40c2-8b87-2f0c7a4de0ee@z32g2000prh.googlegroups.com>
Subject: Re: Power supply
Date: Mon, 30 Jun 2008 22:19:11 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5512
X-RFC2646: Format=Flowed; Original
Message-ID: <TY6dnYRc2I2qP_TVnZ2dnUVZ_uqdnZ2d@comcast.com>
Lines: 18
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NNTP-Posting-Host: 24.14.244.109
X-Trace: sv3-sBUjPbSwMFskW27hhvl1EGs1xRFP2scTkFm1l2ivq8ypQcDZr1bmvndIteGdO+vllqEusixr9tqRSZR!ylLNFQgqubNce0H3Yl3lkGNDZv8ThfW4j0/CXDCsdEBc4rTS3Hpm+cOeaYTwARi0j4pKFkAnRNCb!FKN2khTX1YBCzB1wPMuFS2ONUKmseg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:290

<jimmie68@gmail.com> wrote in message news:a82be280-9eb8-40c2-8b87-2f0c7a4de0ee@z32g2000prh.googlegroups.com...

```
>I have a 12volt home made power supply similar to Astron models. I was
> told it could handle 30A. The pass transistors are missing and I have
> some 50 amp NPN darlington transistors on hand I was considering using
> for replacements. Can you think of any reason these could/should not
> be used.
>
Good web page for your overall education and repair.
http://www.repeater-builder.com/astron/astron-index.html

Regulated Linear Power Supply Construction, or What's inside your AstronT?
by David Metz WA�AUQ

"Power Supply Analysis"
This is a PDF of an article from the December 2005 QST




From 7203346632703028307
X-Google-Thread: fc2a5,1f94ac2320a64911
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
b1g2000hsg.googlegroups.com!not-for-mail
From: Leon <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Home made PCB?
Date: Tue, 1 Jul 2008 02:58:56 -0700 (PDT)
Organization: http://groups.google.com
Lines: 82
Message-ID: <c0ecb0f6-235e-4d42-ab63-83d6f5f0a166@b1g2000hsg.googlegroups.com>
References: <lu8ak.84773$102.1248@bgtnsc05-news.ops.worldnet.att.net>
     <ae8aeb66-0018-449f-91be-142c088b2037@u6g2000prc.googlegroups.com>
NNTP-Posting-Host: 86.145.228.233
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X-Trace: posting.google.com 1214906337 17130 127.0.0.1 (1 Jul 2008 09:58:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 1 Jul 2008 09:58:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b1g2000hsg.googlegroups.com; posting-host=86.145.228.233;
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Xref: g2news1.google.com rec.radio.amateur.homebrew:291

On 1 Jul, 00:30, K7ITM <k7...@msn.com> wrote:
> On Jun 30, 10:12 am, "numeric" <nume...@att.net> wrote:
>
>
>
```

```
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> what they call 1 ounce copper is really 0.5 ounce...seldom a problem
> and allows faster etching and it's easier to make fine lines, but be
> aware of it for high current traces.
>
> Cheers,
> Tom

I use a Metcal and microscope, as well.

I use manual agitation in hot FeCl3. I don't have any problems getting
down to 8 mil tracks or even less.

Leon

From -7031781652511526144
X-Google-Thread: fc2a5,1f94ac2320a64911
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!j22g2000hsf.googlegroups.com!not-for-mail
From: Leon <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Home made PCB?
Date: Tue, 1 Jul 2008 03:02:17 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <6381a2c2-d91a-4c4b-bf49-68e44d8aec77@j22g2000hsf.googlegroups.com>
References: <lu8ak.84773$102.1248@bgtnsc05-news.ops.worldnet.att.net>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:292

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From -5583127365219552633
X-Google-Thread: fc2a5,f8979e46724e07c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply
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<Tb6dnW3d9J3DVPrVnZ2dnUVZ_gadnZ2d@web-ster.com>
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X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:293
```

Tim Wescott wrote:
> jimmie68@gmail.com wrote:
>> I have a 12volt home made power supply similar to Astron models. I was
>> told it could handle 30A. The pass transistors are missing and I have
>> some 50 amp NPN darlington transistors on hand I was considering using
>> for replacements. Can you think of any reason these could/should not
>> be used.
>>
>> Jimmie
>
> Tons, but all of them start with 'maybe'.
>
> The biggest one is 'maybe your power supply was designed for straight
> transistors' -- if it seems to have hefty current drive to the pass
> transistor bases, then that would be the case.
>
> Otherwise, go ahead and put in your pass transistors and see what happens.
>
> Keep in mind that those pass transistors may be missing for a reason,
> and the reason may be that the power supply never worked well in the
> first place -- so if what you have doesn't work, it may be the design or
> execution of your circuit, not the transistors themselves.
===
If the design of what you have is 'debatable' and having NPN Darlintons
which require relative low drive current you might consider a very
simple circuit with a LM317 in a wrap-around circuit.
Two references :
1) Experimental Methods in RF Design , by W7ZOI ,et al ,page 1.15

2) Radcom (RSGB) October 2001 ,page34 : A simple rugged power supply
,by OZ1XB

Frank   GM0CSZ / KN6WH

From 4915977895413659411
X-Google-Thread: fc2a5,1f94ac2320a64911
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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news.astraweb.com!border2.a.newsrouter.astraweb.com!txtfeed2.tudelft.nl!
tudelft.nl!binfeed2.tudelft.nl!news1.tudelft.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Home made PCB?
From: SamSvL <samsvl@nlr.nl>
References: <lu8ak.84773$102.1248@bgtnsc05-news.ops.worldnet.att.net>
<43fc4314-4163-45d1-a7f2-bf630c11c86e@y38g2000hsy.googlegroups.com>
<pBbak.167256$SV4.153009@bgtnsc04-news.ops.worldnet.att.net>
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Date: Tue, 01 Jul 2008 14:11:35 +0200
Lines: 26
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NNTP-Posting-Date: Tue, 01 Jul 2008 14:11:35 +0200
X-Trace: 51651486a1ef72cb42c7b04943
Xref: g2news1.google.com rec.radio.amateur.homebrew:294

"numeric" <numeric@att.net> wrote in
news:pBbak.167256$SV4.153009@bgtnsc04-news.ops.worldnet.att.net:

>
> "Leon" <leon355@btinternet.com> wrote in message
> news:43fc4314-4163-45d1-a7f2-bf630c11c86e@y38g2000hsy.googlegroups.com.
> ..
>> I don't have any problems making PCBs at home for 0.5 mm lead spacing
>> QFPs, or soldering them. by hand (drag soldering).
>>
>> Leon
>
> Thanks for the reply. I have though about using a laser printer to
> print a negative image on clear Mylar. Then expose a photo sensitive
> PCB to the negative image. The laser printer does print very sharp
> lines as visible using a 10X loop. The quality should be good enough
> for fine pitch. The etching process however may end up in disaster
> with fine pitch lines. How do you make the PCB?
>
>
That's what I do. Then I transfer the layout to fotoboard2 by exposing
to my sunray for 5 minutes, and etch with sodium persulfate. Perfect
results. And soldering 0603 by hand is really no problem.

Sam




From -2758990118501352711
X-Google-Thread: fc2a5,1f94ac2320a64911
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p25g2000pri.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Home made PCB?
Date: Tue, 1 Jul 2008 09:52:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <43cb1938-8f0c-4452-a0a4-0420cb88fefc@p25g2000pri.googlegroups.com>
References: <lu8ak.84773$102.1248@bgtnsc05-news.ops.worldnet.att.net>
     <ae8aeb66-0018-449f-91be-142c088b2037@u6g2000prc.googlegroups.com>
     <6381a2c2-d91a-4c4b-bf49-68e44d8aec77@j22g2000hsf.googlegroups.com>
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NNTP-Posting-Date: Tue, 1 Jul 2008 16:52:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
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     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:295

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> based inks used with HP printers. They are available from Mega
> Electronics and Farnell.
>
> Leon

These seem to be UK suppliers.  So far, my Google searching hasn't
turned up a source in the US for the JetStar films, though I am
intrigued by the product lines that Valley Litho carry.  There's been
something of a revolution in how printing is done:  professional laser
printers are used for short runs, offset plates are made in various
ways much more directly from computer-generated copy, and laser and
inkjet printers are used to make positive and negative
transparencies.  Valley carries several items that claim to produce
dense, clean copy for exposing plates or screen film, and that should
be fine for PCB work too.  I'll probably call them to get
recommendations, since a hundred sheets of transparency film is a bit
pricey to buy to just try out.

Cheers,
Tom


From 8950965086086397064
X-Google-Thread: fc2a5,f8979e46724e07c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!
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border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 01 Jul 2008 12:20:53 -0500
Date: Tue, 01 Jul 2008 10:21:08 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply
References: <a82be280-9eb8-40c2-8b87-2f0c7a4de0ee@z32g2000prh.googlegroups.com>
<Tb6dnW3d9J3DVPrVnZ2dnUVZ_gadnZ2d@web-ster.com>
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In-Reply-To: <KfOdnYXKh5zLk_fVnZ2dnUVZ8rednZ2d@pipex.net>
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:296

Highland Ham wrote:
> Tim Wescott wrote:
>> jimmie68@gmail.com wrote:
>>> I have a 12volt home made power supply similar to Astron models. I was
>>> told it could handle 30A. The pass transistors are missing and I have
>>> some 50 amp NPN darlington transistors on hand I was considering using
>>> for replacements. Can you think of any reason these could/should not
>>> be used.
>>>
>>> Jimmie
>>
>> Tons, but all of them start with 'maybe'.
>>
>> The biggest one is 'maybe your power supply was designed for straight
>> transistors' -- if it seems to have hefty current drive to the pass
>> transistor bases, then that would be the case.
>>
>> Otherwise, go ahead and put in your pass transistors and see what
>> happens.
>>
>> Keep in mind that those pass transistors may be missing for a reason,
>> and the reason may be that the power supply never worked well in the
>> first place -- so if what you have doesn't work, it may be the design
>> or execution of your circuit, not the transistors themselves.
> ==
> If the design of what you have is 'debatable' and having NPN Darlintons

> which require relative low drive current you might consider a very
> simple circuit with a LM317 in a wrap-around circuit.
> Two references :
> 1) Experimental Methods in RF Design , by W7ZOI ,et al ,page 1.15
>
> 2) Radcom (RSGB) October 2001 ,page34 : A simple rugged power supply
> ,by OZ1XB
>
>
> Frank   GM0CSZ / KN6WH
>

Not to mention the ARRL handbook, which has several choices in their
power supply chapter.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From 5042101065824511319
X-Google-Thread: fc2a5,1f94ac2320a64911
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
e39g2000hsf.googlegroups.com!not-for-mail
From: Leon <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Home made PCB?
Date: Tue, 1 Jul 2008 10:43:03 -0700 (PDT)
Organization: http://groups.google.com
Lines: 41
Message-ID: <b7f1eb6e-6d07-4d91-b80e-08805155ac2a@e39g2000hsf.googlegroups.com>
References: <lu8ak.84773$102.1248@bgtnsc05-news.ops.worldnet.att.net>
     <ae8aeb66-0018-449f-91be-142c088b2037@u6g2000prc.googlegroups.com>
     <6381a2c2-d91a-4c4b-bf49-68e44d8aec77@j22g2000hsf.googlegroups.com>
     <43cb1938-8f0c-4452-a0a4-0420cb88fefc@p25g2000pri.googlegroups.com>
NNTP-Posting-Host: 86.145.228.233
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1214934184 7140 127.0.0.1 (1 Jul 2008 17:43:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 1 Jul 2008 17:43:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e39g2000hsf.googlegroups.com; posting-host=86.145.228.233;
     posting-account=QWZLZQkAAADFmB_RJlmk3T-GvINRaZti
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9)
     Gecko/2008052906 Firefox/3.0,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:297

On 1 Jul, 17:52, K7ITM <k7...@msn.com> wrote:
> On Jul 1, 3:02 am, Leon <leon...@btinternet.com> wrote:
>
> > On 1 Jul, 00:30, K7ITM <k7...@msn.com> wrote:> On Jun 30, 10:12 am, "nu=
meric" <nume...@att.net> wrote:
>
> > . =A0Thanks to Leon for
>
> > > posting a reference to another film material to try. =A0I've had the
> > > best luck using an Epson inkjet printer: =A0my HP printer doesn't do =
as
> > > well,
>
> > The ordinary JetStar film is suitable for dye-based ink like that used
> > in Epson printers. Premium Jetstar is intended for use with pigment-
> > based inks used with HP printers. They are available from Mega
> > Electronics and Farnell.
>
> > Leon
>
> These seem to be UK suppliers. =A0So far, my Google searching hasn't
> turned up a source in the US for the JetStar films, though I am
> intrigued by the product lines that Valley Litho carry. =A0There's been
> something of a revolution in how printing is done: =A0professional laser
> printers are used for short runs, offset plates are made in various
> ways much more directly from computer-generated copy, and laser and
> inkjet printers are used to make positive and negative
> transparencies. =A0Valley carries several items that claim to produce
> dense, clean copy for exposing plates or screen film, and that should
> be fine for PCB work too. =A0I'll probably call them to get
> recommendations, since a hundred sheets of transparency film is a bit
> pricey to buy to just try out.
>
> Cheers,
> Tom

Silkjet film seems to be similar and is available in the US. They even
make two types for dye and pigment inks, like Mega do. It might be the
same stuff, renamed for a different market.

Leon


From 6491006476118271399
X-Google-Thread: fc2a5,1f94ac2320a64911
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d19g2000prm.googlegroups.com!not-for-
mail
```

```
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Home made PCB?
Date: Tue, 1 Jul 2008 12:01:44 -0700 (PDT)
Organization: http://groups.google.com
Lines: 65
Message-ID: <688e0900-1397-49da-bead-e442047f5154@d19g2000prm.googlegroups.com>
References: <lu8ak.84773$102.1248@bgtnsc05-news.ops.worldnet.att.net>
     <ae8aeb66-0018-449f-91be-142c088b2037@u6g2000prc.googlegroups.com>
     <6381a2c2-d91a-4c4b-bf49-68e44d8aec77@j22g2000hsf.googlegroups.com>
     <43cb1938-8f0c-4452-a0a4-0420cb88fefc@p25g2000pri.googlegroups.com>
     <b7f1eb6e-6d07-4d91-b80e-08805155ac2a@e39g2000hsf.googlegroups.com>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1214938904 22254 127.0.0.1 (1 Jul 2008 19:01:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 1 Jul 2008 19:01:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d19g2000prm.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:298

On Jul 1, 10:43 am, Leon <leon...@btinternet.com> wrote:
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>
>
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>
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> make two types for dye and pigment inks, like Mega do. It might be the
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>
> Leon

Thanks, Leon! I really appreciate your inputs that have gotten me pointed in some new directions. Maybe all this will get some other folk experimenting and reporting back their results. First: Silkjet is a brand of Kimoto, so if you search for Kimoto you may find more suppliers and info. (They also make high quality laser printer film.) Second: if you do searches like "screen printing inkjet film" you'll find a bunch of stuff. My belief is that a film that's really suitable for exposing screen printing emulsions is very likely going to be suitable for transparencies for PC printing. Also, I found one place at least that offers a ten-sheet sample pack of Silkjet (recommended for Epson printers) for $10; I just ordered one--they seem to not have a minimum order, even. (shop.poconoscreen.com) And with the right supplies, you may be able to do as well (or better?) with a laser printer; see for example the Valley Litho web site -- and a search on "screen printing laser film" turns up lots of stuff too. The key seems to be finding out where inkjet and laser printed transparencies are being used commercially, and screen printing is clearly one of those areas.

Cheers,
Tom

From -1678104438744956621
X-Google-Thread: fc2a5,f8979e46724e07c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w5g2000prd.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply
Date: Tue, 1 Jul 2008 15:20:44 -0700 (PDT)
Organization: http://groups.google.com

Lines: 39
Message-ID: <23f965fa-967f-4bfb-b2bc-aa6cc2350fb9@w5g2000prd.googlegroups.com>
References: <a82be280-9eb8-40c2-8b87-2f0c7a4de0ee@z32g2000prh.googlegroups.com>
 <Tb6dnW3d9J3DVPrVnZ2dnUVZ_gadnZ2d@web-ster.com>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1214950844 27111 127.0.0.1 (1 Jul 2008 22:20:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 1 Jul 2008 22:20:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w5g2000prd.googlegroups.com; posting-host=204.108.8.5;
 posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:299

Tim Wescott wrote:
> jimmie68@gmail.com wrote:
> > I have a 12volt home made power supply similar to Astron models. I was
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> and the reason may be that the power supply never worked well in the
> first place -- so if what you have doesn't work, it may be the design or
> execution of your circuit, not the transistors themselves.
>
> --

Tim I made a few repairs that were obvious and discovered the power
supply design was minimal at best. It does have what seems to be a
very heavy duty transformer probably 30 amps CCS. There is no
overcurrent/overvoltage protection. The heat sinks are small in
comparison to my Pyramid brand 20 amp power supply. The transformer is
center tapped but a paralelled pair of bridge rectifers are being used
with the (-) leads disconnected. The regulator doesnt have its own

power supply or even operate from higher voltage taps on the transformer. Oh well, I bought it for the transformer and it looks like I got a good deal on that and the box.

Jimmie

From -1901673824399157 49
X-Google-Thread: fc2a5,fbeb9133de6af86e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!198.186.194.249.MISMATCH!transit3.readnews.com!news-out.readnews.com!transit4.readnews.com!panix!panix1.panix.com!arthures
From: A <arthures@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hams take note: qth.net/qsl.net: is it just me?
Date: Tue, 1 Jul 2008 20:23:36 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 21
Message-ID: <Pine.NEB.4.64.0807012021180.8182@panix1.panix.com>
References: <g4bgc7$82i$1@puck.litech.org>
NNTP-Posting-Host: panix1.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1214958219 26606 166.84.1.1 (2 Jul 2008 00:23:39 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 2 Jul 2008 00:23:39 +0000 (UTC)
In-Reply-To: <g4bgc7$82i$1@puck.litech.org>
Xref: g2news1.google.com rec.radio.amateur.homebrew:300

I don't spend a lot of time using the internet to go to ham radio related websites, but at least one website I know about runs at a financial deficit and not enough human resources so that might be part of the problem. There could be technical reasons, too. But, I, at least, would appreciate knowing if you still have this problem repeatedly in the future.

On Mon, 30 Jun 2008, Mike Andrews wrote:

> Is anyone else having trouble seeing, or getting mail to, any of the
> lists based at qsl.net or qth.net? They appear to have fallen off the
> edge of the 'Net, and DNS for both domains is failing right now for me.
>
> Thanks & 73, de
>
> --
> Mike Andrews, W5EGO
> mikea@mikea.ath.cx
> Tired old sysadmin
>

```
From -5779686277635692885
X-Google-Thread: fc2a5,f8979e46724e07c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!v26g2000prm.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply
Date: Tue, 1 Jul 2008 17:49:21 -0700 (PDT)
Organization: http://groups.google.com
Lines: 44
Message-ID: <ffea6ec8-2941-4a65-9626-859a301fa264@v26g2000prm.googlegroups.com>
References: <a82be280-9eb8-40c2-8b87-2f0c7a4de0ee@z32g2000prh.googlegroups.com>
     <Tb6dnW3d9J3DVPrVnZ2dnUVZ_gadnZ2d@web-ster.com>
<KfOdnYXKh5zLk_fVnZ2dnUVZ8rednZ2d@pipex.net>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1214959761 15185 127.0.0.1 (2 Jul 2008 00:49:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 2 Jul 2008 00:49:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v26g2000prm.googlegroups.com; posting-host=204.108.8.5;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:301
```

Highland Ham wrote:

> Tim Wescott wrote:
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```
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> simple circuit with a LM317 in a wrap-around circuit.
> Two references :
> 1) Experimental Methods in RF Design , by W7ZOI ,et al  ,page 1.15
>
> 2) Radcom (RSGB) October 2001 ,page34 :  A simple rugged power supply
> ,by OZ1XB
>
>
> Frank    GM0CSZ / KN6WH

For what it  worth almost any 3 legged regulator will work in this
circuit. The minimum voltage of the power supply will depend on the
voltage of the regulator. Basically the LM317 is a 1.25 volt
regulator.

Jimmie



From -9208405460253888606
X-Google-Thread: fc2a5,fbeb9133de6af86e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 01 Jul 2008 20:11:41 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hams take note: qth.net/qsl.net: is it just me?
References: <g4bgc7$82i$1@puck.litech.org>
<Pine.NEB.4.64.0807012021180.8182@panix1.panix.com>
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Tue, 1 Jul 2008 18:11:34 -0700
Message-ID: <671rj5-2kv.ln1@radagast.org>
Lines: 10
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.159.209.148
X-Trace: sv3-33IF4I6XFBohcGpYRV36dY1dHS5JG3X6ZgkIGSM+/
nSS01aMQtaOV89tcIA51AlsCU9jaZGWY+TNFAr!
hD7c8arhSLFK1Jb0vdjlTc4CEGuD4UOAmM9QfVNn0+fd0NlpptmaUVaG7AzIFw==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:302

On Mon, 30 Jun 2008, Mike Andrews wrote:

> Is anyone else having trouble seeing, or getting mail to, any of the
> lists based at qsl.net or qth.net? They appear to have fallen off the
> edge of the 'Net, and DNS for both domains is failing right now for me.

Both sites come up promptly for me here today. I've seen them be quite
sluggish in the past, but that's not the case just at this moment.

From -4253005583874870885
X-Google-Thread: fc2a5,f8979e46724e07c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 02 Jul 2008 06:04:49 -0500
Date: Wed, 02 Jul 2008 12:04:48 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply
References: <a82be280-9eb8-40c2-8b87-2f0c7a4de0ee@z32g2000prh.googlegroups.com>
<Tb6dnW3d9J3DVPrVnZ2dnUVZ_gadnZ2d@web-ster.com>
<KfOdnYXKh5zLk_fVnZ2dnUVZ8rednZ2d@pipex.net>
<ffea6ec8-2941-4a65-9626-859a301fa264@v26g2000prm.googlegroups.com>
In-Reply-To: <ffea6ec8-2941-4a65-9626-859a301fa264@v26g2000prm.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <S7mdnZlKEvlM_fbVnZ2dneKdnZydnZ2d@pipex.net>
Lines: 47
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.76.16
X-Trace: sv3-37ABZdPW4y7D5iruACCQobQ5b0n4aeKoBDUwKh/XDGcn58gxx4sCbg/
Bf19vGDC78pKZeYqH2p5sKHt!mlc6ATSqAsu8Ii5Xb30UD5uBcnGIfbVg7A7cKFWau8AvR3Bzfg/
FmG61T8ufxyjhWh2BLT5wMe3o!vilaY1qHDZGP86Uf/UOXhi6O
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:303

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```
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>>>
>>> The biggest one is 'maybe your power supply was designed for straight
>>> transistors' -- if it seems to have hefty current drive to the pass
>>> transistor bases, then that would be the case.
>>>
>>> Otherwise, go ahead and put in your pass transistors and see what happens.
>>>
>>> Keep in mind that those pass transistors may be missing for a reason,
>>> and the reason may be that the power supply never worked well in the
>>> first place -- so if what you have doesn't work, it may be the design or
>>> execution of your circuit, not the transistors themselves.
>> ===========================================
>> If the design of what you have is 'debatable' and having NPN Darlintons
>> which require relative low drive current you might consider a very
>> simple circuit with a LM317 in a wrap-around circuit.
>> Two references :
>> 1) Experimental Methods in RF Design , by W7ZOI ,et al  ,page 1.15
>>
>> 2) Radcom (RSGB) October 2001 ,page34 :  A simple rugged power supply
>> ,by OZ1XB
>>
>>
>> Frank    GM0CSZ / KN6WH
>
> For what it  worth almost any 3 legged regulator will work in this
> circuit. The minimum voltage of the power supply will depend on the
> voltage of the regulator. Basically the LM317 is a 1.25 volt
> regulator.
===========================
The LM317 ,being basically a 1.25 v regulator can have a variable output
by means of a potmeter or any fixed output by means of 2 fixed resistors
  ,that's why it is often used as a universal device.

Frank     GM0CSZ / KN6WH


From 6497197029181900113
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!r66g2000hsg.googlegroups.com!not-for-
```

```
mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Wed, 2 Jul 2008 05:42:18 -0700 (PDT)
Organization: http://groups.google.com
Lines: 6
Message-ID: <52fc1cc4-417a-40a0-9e11-dd01b6ff477c@r66g2000hsg.googlegroups.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
     <92419105-6fbe-4dbf-b971-7454304c514f@27g2000hsf.googlegroups.com>
     <17c8be37-7531-42a2-b8e5-124dae1584cb@k13g2000hse.googlegroups.com>
     <48565EB4.4010800@qrparci.org>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1215002539 25026 127.0.0.1 (2 Jul 2008 12:42:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 2 Jul 2008 12:42:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r66g2000hsg.googlegroups.com; posting-host=216.203.30.4;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.cb:788 rec.radio.amateur.equipment:280
rec.radio.amateur.homebrew:304

> Appropriately, a CB radio, illegally modified. Only a CBer would fall for this
> "Speech Processor."

Yes, VoiceMax is selling well. We are unable to keep up with the
demand at this time. These units are back-ordered until late August08.



From -5655990108103062839
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 02 Jul 2008 09:41:07 -0500
From: "Channel Cop" <nedrog@yahoo.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
<92419105-6fbe-4dbf-b971-7454304c514f@27g2000hsf.googlegroups.com>
<17c8be37-7531-42a2-b8e5-124dae1584cb@k13g2000hse.googlegroups.com>
<48565EB4.4010800@qrparci.org> <52fc1cc4-417a-40a0-9e11-
dd01b6ff477c@r66g2000hsg.googlegroups.com>
```

```
Subject: Re: VoiceMax Speech Processor...
Date: Wed, 2 Jul 2008 10:41:44 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <wOKdnSGmo7UeDvbVnZ2dnUVZ_qLinZ2d@comcast.com>
Lines: 16
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 76.100.218.8
X-Trace:
sv3-63YL8LTNRUHDMQZ0gZf2xlRgtIRXZ4X7+mKcGPVMu6E9BOTgUc3lWCcttced8+OhhxnVYd0aIlKXQg
d!YOzDLVGw6hgDgaEm+EbFgKYdP1CDT6IM1z7rUbPuSoeIGkvUknU5l0/90ZNULQPssmTnfwanZN5/!
Ew6yHdprAvWOukzgnzEfTNr9SvhR
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.cb:793 rec.radio.amateur.equipment:281
rec.radio.amateur.homebrew:305


"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
news:52fc1cc4-417a-40a0-9e11-dd01b6ff477c@r66g2000hsg.googlegroups.com...
>> Appropriately, a CB radio, illegally modified. Only a CBer would fall for
>> this
>> "Speech Processor."
>
> Yes, VoiceMax is selling well. We are unable to keep up with the
> demand at this time. These units are back-ordered until late August08.

sound more like the garbage that fell off of the BACK of the animal while it
was taking a CRAP.  OH - wait a minute - "back-ordered" - that is the
convention that you go out and turn-around and order something?
>




From 5240368748064751903
X-Google-Thread: fc2a5,f8979e46724e07c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z24g2000prf.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power supply
Date: Wed, 2 Jul 2008 09:11:20 -0700 (PDT)
Organization: http://groups.google.com
```

```
Lines: 67
Message-ID: <0b014fa4-ec60-43d2-b9af-b2d7b3a7dbfe@z24g2000prf.googlegroups.com>
References: <a82be280-9eb8-40c2-8b87-2f0c7a4de0ee@z32g2000prh.googlegroups.com>
     <Tb6dnW3d9J3DVPrVnZ2dnUVZ_gadnZ2d@web-ster.com>
<KfOdnYXKh5zLk_fVnZ2dnUVZ8rednZ2d@pipex.net>
     <ffea6ec8-2941-4a65-9626-859a301fa264@v26g2000prm.googlegroups.com>
     <S7mdnZlKEvlM_fbVnZ2dneKdnZydnZ2d@pipex.net>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1215015081 18768 127.0.0.1 (2 Jul 2008 16:11:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 2 Jul 2008 16:11:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z24g2000prf.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:306

On Jul 2, 4:04 am, Highland Ham <abcgm0csz.kn6wh...@dsl.pipex.com>
wrote:
> jimmi...@gmail.com wrote:
>
> > Highland Ham wrote:
> >> Tim Wescott wrote:
> >>> jimmi...@gmail.com wrote:
> >>>> I have a 12volt home made power supply similar to Astron models. I was
> >>>> told it could handle 30A. The pass transistors are missing and I have
> >>>> some 50 amp NPN darlington transistors on hand I was considering using
> >>>> for replacements. Can you think of any reason these could/should not
> >>>> be used.
>
> >>>> Jimmie
> >>> Tons, but all of them start with 'maybe'.
>
> >>> The biggest one is 'maybe your power supply was designed for straight
> >>> transistors' -- if it seems to have hefty current drive to the pass
> >>> transistor bases, then that would be the case.
>
> >>> Otherwise, go ahead and put in your pass transistors and see what happens.
>
> >>> Keep in mind that those pass transistors may be missing for a reason,
> >>> and the reason may be that the power supply never worked well in the
> >>> first place -- so if what you have doesn't work, it may be the design or
> >>> execution of your circuit, not the transistors themselves.
> >> ===========================================
> >> If the design of what you have is 'debatable' and having NPN Darlintons
> >> which require relative low drive current you might consider a very
> >> simple circuit with a LM317 in a wrap-around circuit.
> >> Two references :
```

> >> 1) Experimental Methods in RF Design , by W7ZOI ,et al ,page 1.15
>
> >> 2) Radcom (RSGB) October 2001 ,page34 : A simple rugged power supply
> >> ,by OZ1XB
>
> >> Frank   GM0CSZ / KN6WH
>
> > For what it worth almost any 3 legged regulator will work in this
> > circuit. The minimum voltage of the power supply will depend on the
> > voltage of the regulator. Basically the LM317 is a 1.25 volt
> > regulator.
>
> ===========================
> The LM317 ,being basically a 1.25 v regulator can have a variable output
> by means of a potmeter or any fixed output by means of 2 fixed resistors
>   ,that's why it is often used as a universal device.
>
> Frank   GM0CSZ / KN6WH

Linear Technology has recently introduced an interesting new regulator that should get the attention of experimenters wanting a variable bench supply that goes easily down to zero volts. You can consider it an amplified emitter follower with max offset of a very few millivolts, along with a precision 10uA current source feeding the input pin. So you hook a variable resistor between the input pin and ground, and the output voltage is R*10uA. It's also acceptable to drive the input pin with a voltage source, such as the output of a DAC, if you want. Guess I should mention that it's the LT3080. The design choices that went into it make it easy to parallel, and also easy to add a "pre-regulator" so that the '3080 doesn't have to dissipate all the power when delivering low output voltage from a high unregulated input. (No, I don't work for them...just think it's a cool part.)

Cheers,
Tom

From -1309661801959066693
X-Google-Thread: fc2a5,feaa26acc8d5365f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!transit3.readnews.com!news-xxxfer.readnews.com!news-out.readnews.com!postnews3.readnews.com!not-for-mail
From: Wim Lewis <wiml@hhhh.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Newsgroup Elimination
Organization: HHHH Underhill
Message-ID: <g3n7et$8ql$1@underhill.hhhh.org>
References: <q6f6k.61015$Ni1.7141@trnddc01>
X-Newsreader: trn 4.0-test76 (Apr 2, 2001)
Originator: wiml@underhill.hhhh.org (Wim Lewis)
Date: 03 Jul 2008 07:35:13 GMT

Lines: 25
NNTP-Posting-Host: 1387ab21.news.zipcon.net
X-Trace: DXC=I]4X@B;DQnKLG@jU:39aJFU>Dm5d6:E6M?
OHI:cbS9WE6i3K@k4DWOA2]NZNh`bNUFQlJ_X@d^43I
X-Complaints-To: abuse@zipcon.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:307

In article <q6f6k.61015$Ni1.7141@trnddc01>, Al <no.spam@wanted.com> wrote:

>If my access is denied, I will encourage my Senate and House delegations
>to enact legistation that will restore my legitimate access to these
>groups. I think the last thing you would want is more legislation on your
>networks.

They're not really denying you access; they're just no longer running a
USENET server as part of their ISP business any more. You can still get
to those groups ... you'll just have to pay someone else for usenet
access. (Or get it for free from, say, aioe.org, or use google's lame web
interface, etc.)

As such I don't think this is something for the law to be involved in.
Verizon's decided to drop part of their service, but there's room in
the world for crappy ISPs alongside the good ones.

If Verizon decided to start blocking access to other companies' news
servers, or forge reset packets, etc., the way Comcast (allegedly?)
does, then you'd have something to write your representatives about.

You might be able to get out of any contract you have with them, on
the basis they've changed the service without renegotiating...
people seem to do that for cell-phone contracts a lot.
--
Wim Lewis <wiml@hhhh.org>, Seattle, WA, USA. PGP keyID 27F772C1

From 8293758809944559994
X-Google-Thread: f4306,13d34be48cdc825e,start
X-Google-Thread: 114fbf,13d34be48cdc825e,start
X-Google-Thread: fb049,13d34be48cdc825e,start
X-Google-Thread: 100d56,13d34be48cdc825e,start
X-Google-Thread: fc2a5,13d34be48cdc825e,start
X-Google-Attributes:
gidf4306,gid114fbf,gidfb049,gid100d56,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 03 Jul 2008 05:40:28 -0500
From: "W3CQH" <hsgorden@comcast.net>
Newsgroups: alt.ham-radio.packet,alt.ham-radio.rtty,alt.ham-radio.vhf-
uhf,alt.radio.amateur.club.taparc,news.misc.radio.amateur.antenna,rec.radio.amateur.digital,rec.radio.amateur.homebrew,rec.radio.amateur.packet
Subject: ***** POSSIBLE FIRE HAZZARD *****
Date: Thu, 3 Jul 2008 06:41:06 -0400

```
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <O6mdnWNQJ_gBMfHVnZ2dnUVZ_q_inZ2d@comcast.com>
Lines: 61
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 76.100.218.8
X-Trace: sv3-lDQoxjkUA3VfoFdOM8qv8eCkE6atg5IJ2oBgIsat3lNaljjWT/
3rOo7VhLf9wnAyVOfu+YyhqBiO+Oy!HH/
Tzh8Ym3XkUX68I0fVlkce2BVRnZq+vlJxTDLrgBRntaNuPWYAgxBBnHbog/JPcF/bk9aStML3!
9IgkP7Juf4DUl4FQ/4lGcA3+3MNL
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com alt.ham-radio.packet:2 alt.ham-radio.rtty:2 alt.ham-
radio.vhf-uhf:128 alt.radio.amateur.club.taparc:2 rec.radio.amateur.homebrew:308
```

U.S. Consumer Product Safety Commission
Office of Information and Public Affairs
Washington, DC 20207

FOR IMMEDIATE RELEASE
July 2, 2008
Release #08-319

Firm's Recall Hotline: (800) 843-7422
CPSC Recall Hotline: (800) 638-2772
CPSC Media Contact: (301) 504-7908

RadioShack Recalls Power Supplies Due to Electrocution and Fire Hazards

WASHINGTON, D.C. - The U.S. Consumer Product Safety Commission, in cooperation with the firm named below, today announced a voluntary recall of the following consumer product. Consumers should stop using recalled products immediately unless otherwise instructed.

Name of Product: 13.8V DC Power Supplies

Units: About 160,000

Importer: RadioShack Corp., of Fort Worth, Texas

Hazard: The recalled power supplies are wired incorrectly, posing electrocution and fire hazards.

Incidents/Injuries: None reported.

Description: The recall involves RadioShack 13.8V DC Power Supplies, catalog numbers 22-507 and 22-508 with date codes from 08A04 through 01A08.

Date code format is MMAYY where MM is the month and YY is the year. The catalog number and date code are located on the back of the power supply. Power Supplies with a green dot on the product and the product's packaging have already been repaired and are not included in the recall.

Sold at: RadioShack stores nationwide from October 2004 through January 2008 for between $50 and $85.

Manufactured in: China

Remedy: Consumers should unplug the recalled power supply immediately and take it to any RadioShack store for a free repair. Registered owners of the recalled power supplies will be mailed a notice.

Consumer Contact: For additional information, contact RadioShack at 800-843-7422 anytime, or visit the firm's website at:

http://www.radioshack.com/recall

To see this recall on CPSC's web site, including pictures of the recalled products, please go to:

http://www.cpsc.gov/cpscpub/prerel/prhtm108/08319.html

From -2963082697863470717
X-Google-Thread: fc2a5,feaa26acc8d5365f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!novia!news-out.readnews.com!news-xxxfer.readnews.com!panix!panix2.panix.com!arthures
From: A <arthures@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Newsgroup Elimination
Date: Thu, 3 Jul 2008 08:07:00 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 36
Message-ID: <Pine.NEB.4.64.0807030804360.20892@panix2.panix.com>
References: <q6f6k.61015$Ni1.7141@trnddc01> <g3n7et$8ql$1@underhill.hhhh.org>
NNTP-Posting-Host: panix2.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader1.panix.com 1215086824 5481 166.84.1.2 (3 Jul 2008 12:07:04 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 3 Jul 2008 12:07:04 +0000 (UTC)

```
In-Reply-To: <g3n7et$8ql$1@underhill.hhhh.org>
Xref: g2news1.google.com rec.radio.amateur.homebrew:309



On Thu, 3 Jul 2008, Wim Lewis wrote:

> In article <q6f6k.61015$Ni1.7141@trnddc01>, Al  <no.spam@wanted.com> wrote:
>> If my access is denied, I will encourage my Senate and House delegations
>> to enact legistation that will restore my legitimate access to these
>> groups. I think the last thing you would want is more legislation on your
>> networks.
>
> They're not really denying you access; they're just no longer running a
> USENET server as part of their ISP business any more. You can still get
> to those groups ... you'll just have to pay someone else for usenet
> access. (Or get it for free from, say, aioe.org, or use google's lame web
> interface, etc.)
>
> As such I don't think this is something for the law to be involved in.
> Verizon's decided to drop part of their service, but there's room in
> the world for crappy ISPs alongside the good ones.
>
> If Verizon decided to start blocking access to other companies' news
> servers, or forge reset packets, etc., the way Comcast (allegedly?)
> does, then you'd have something to write your representatives about.
>
> You might be able to get out of any contract you have with them, on
> the basis they've changed the service without renegotiating...
> people seem to do that for cell-phone contracts a lot.

He'd better review all the fine print in his contracts, updates,
references to disclaimers, and consider that those high powered lawyers
have an interpretation somewhere that lets them do this and almost
anything else without recourse to the user.

> --
>   Wim Lewis <wiml@hhhh.org>, Seattle, WA, USA. PGP keyID 27F772C1
>



From 2903357308392436775
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 03 Jul 2008 13:27:06 -0500
Message-ID: <486D19FD.9060507@qrparci.org>
Date: Thu, 03 Jul 2008 14:27:09 -0400
```

```
From: NoMoreSpam <Disgustedham@qrparci.org>
User-Agent: Thunderbird 2.0.0.9 (X11/20080220)
MIME-Version: 1.0
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
To: Telstar Electronics <briangriffey@sbcglobal.net>
Subject: Re: VoiceMax Speech Processor...
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
     <92419105-6fbe-4dbf-b971-7454304c514f@27g2000hsf.googlegroups.com>
     <17c8be37-7531-42a2-b8e5-124dae1584cb@k13g2000hse.googlegroups.com>
     <48565EB4.4010800@qrparci.org> <52fc1cc4-417a-40a0-9e11-
dd01b6ff477c@r66g2000hsg.googlegroups.com>
In-Reply-To: <52fc1cc4-417a-40a0-9e11-dd01b6ff477c@r66g2000hsg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 9
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 76.98.102.223
X-Trace: sv3-XxJ41/
Ifv76c9XkWSNqGm3tGFSQlNQDsCpPemz44PmqLM2ckBu+qE6Vws2dC4YxByOOwdR6KBjVmh/v!
7gGU12CN60e4hgQBOvGlfMZk+vJYesbeuDccBRxYFk13fW29/j3AQXIsdnmUxyTFPICDhk9lT2aA!
3Ppbfz/w
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.cb:814 rec.radio.amateur.equipment:282
rec.radio.amateur.homebrew:310

Telstar Electronics wrote:
>> Appropriately, a CB radio, illegally modified. Only a CBer would fall for this
>> "Speech Processor."
>
> Yes, VoiceMax is selling well. We are unable to keep up with the
> demand at this time. These units are back-ordered until late August08.
>
Just another example of how many morons are passing the so-called "exams" these
days.


From 3964510496604674457
X-Google-Thread: fc2a5,5544fbd4299b9708,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
27g2000hsf.googlegroups.com!not-for-mail
From: Howie <wa2afd@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Source For Modem Transformers
Date: Thu, 3 Jul 2008 15:03:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 10
```

```
Message-ID: <dc42df9a-0455-465c-b876-4b4d6bc0c57c@27g2000hsf.googlegroups.com>
NNTP-Posting-Host: 71.164.78.233
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1215122584 11194 127.0.0.1 (3 Jul 2008 22:03:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 3 Jul 2008 22:03:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 27g2000hsf.googlegroups.com; posting-host=71.164.78.233;
     posting-account=7ANz-AkAAACO2dnBdXk0kJVq557hcd9f
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9)
     Gecko/2008052906 Firefox/3.0,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:311
```

Hello to all and thanks for reading.

I am seeking info on a source for inexpensive modem transformers for use in a PSK31 type interface. A few years ago I purchased surplus ones for less than a dollar a piece, now the only ones I can find are $3 to $4 a piece.

Any info for these 600 to 600 ohm transformers appreciated.

Howard

```
From -6092185323804164484
X-Google-Thread: fc2a5,5544fbd4299b9708
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.acm.uiuc.edu!
news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Source For Modem Transformers
Date: Thu, 3 Jul 2008 21:59:50 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 32
Sender: et472@220-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.0807032156240.21760@darkstar.example.org>
References: <dc42df9a-0455-465c-b876-4b4d6bc0c57c@27g2000hsf.googlegroups.com>
NNTP-Posting-Host: 220-215-235-64-ppp.3menatwork.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1215136812 15710 64.235.215.220 (4 Jul 2008 02:00:12 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 4 Jul 2008 02:00:12 GMT
In-Reply-To: <dc42df9a-0455-465c-b876-4b4d6bc0c57c@27g2000hsf.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:312
```

On Thu, 3 Jul 2008, Howie wrote:

> Hello to all and thanks for reading.
>
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> use in a PSK31 type interface. A few years ago I purchased surplus
> ones for less than a dollar a piece, now the only ones I can find are
> $3 to $4 a piece.
>
> Any info for these 600 to 600 ohm transformers appreciated.
>
> Howard
>

Discarded modems are an obvious source of cheap modem transformers. Just keep an eye out for computers waiting for the garbage trucks, and then open them up with the screwdriver you should carry for such circumstances, and pull out the modem boards. You don't even have to open them to see if there's a modem, just look for a pair of phone jacks on the back. A lot of those modems nowadays aren't that much more than the phone interface, the main CPU doing the work, so there's no real loss in using such modems to supply the transformers.

Cordless phones are easy to find at garage and rummage sales, for a dollar or two. All the base units will supply a transformer, though maybe not as small as the ones in the modems.

Find a surplus outlet that has piles of boards, and that may be a source if they let the boards go cheap, since you just have to pick out the modem boards.

Michael VE2BVW

From 1475374258676752466
X-Google-Thread: fc2a5,398dcadab0fdea13
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.clear.net.nz!news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 04 Jul 2008 23:01:27 -0500
Date: Sat, 05 Jul 2008 16:01:23 +1200
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: source of crystals for Kenwood transceiver upgrade.
References: <4868c876$1@clear.net.nz> <g4bbcr$c4t$1@news.albasani.net>
In-Reply-To: <g4bbcr$c4t$1@news.albasani.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

```
X-Antivirus: avast! (VPS 080704-2, 04/07/2008), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-21-204.dsl.telstraclear.net
Message-ID: <486ef20e@clear.net.nz>
X-Original-Trace: 5 Jul 2008 16:01:18 +1200, 121-72-21-204.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 44
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-AuthenticatedUsername: news10531
X-Trace: sv3-3j29Ta3tujkD/y1HFJDmp70A1srC/k1EmViOXLHvJN/
xAnqy0Jus83vstqpLiAVs2V8+cfgeJCUfK7R!
tVegqwwVqYvcMWoBk96Qua2kGE9Zxf7bfeqfuLS2qd6MVN/w+so1aYw=
X-Complaints-To: abuse@clear.net.nz
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:313
```

Steve H wrote:

> cliff wright wrote:
>
>> Good day all!
>> I have an old Kenwood TS-820 that I've already upgraded somewhat, but
>> I would like to try adding the WARC bands at 10,18 and 24 MHz.
>> The rig only cost me $50 so I was horrified when I discovered that
>> crystals for the job are now priced @ $65 US each + shipping!!!
>> The frequencies aren't very unusual so obviously I am looking for
>> someone who has them available for a more reasonable rate.
>> As it stands it just isn't worth the cost of over $250 NZ.
>> The Xtals are on 15.5 23.5 and 30 MHz and are standard miniature types.
>> If any one can help me out please drop me an Email and let me know how
>> I can pay for them.
>> 73's
>> Cliff Wright ZL1BDA ex G3NIA
>>
>
> Try http://www.quartslab.com/ , they are happy to supply radio amateurs
> and can provide any frequency to order for a fair price. (less than $20.00)
>
> Steve H

Hi Jim, Tim and Steve!
Thanks for the reply. I had of course considered microprocessor crystals
and in the case of the 30.00 MHz one this wasn't a unusual frequency.
However many units these days come with an integral oscillator.
I had tried several Xtal companies in the US and elsewhere but the price
as I had pointed out was a bit "out of sight" for such an old rig. Also
I have had a lot of trouble with US companies in both my hobbies, Ham
radio and Amateur astronomy with overseas orders.

Owing to the 820s' rather odd IF frequency (~8.3 MHz)the heterodyne
crystals are rather critical if dial and counter calibration is to be
maintained.
Very fortunately however I was contacted by Ric VK7RO in Tasmania who
had both the higher frequency units "gathering dust" from a similar
project and he not only very generously and kindly donated them to me
but pointed me in the direction of an Australian Xtal company who can
make me the 15.5000 Mhz crystal for less than half the US price and one
third the delivery time. I hope to have all the cystals to put the 820s
on 10, 18 and 24 MHz in the next week or so and then will get the job
underway. As I have never worked the WARC bands so far it will be a new
experience for me !!
Regards Cliff Wright ZL1BDA ex G3NIA

From -7075069068107898151
X-Google-Thread: fc2a5,398dcadab0fdea13
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 05 Jul 2008 11:39:08 -0500
Date: Sat, 05 Jul 2008 09:39:13 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: source of crystals for Kenwood transceiver upgrade.
References: <4868c876$1@clear.net.nz> <g4bbcr$c4t$1@news.albasani.net>
<486ef20e@clear.net.nz>
In-Reply-To: <486ef20e@clear.net.nz>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <xNGdnY1Xqa0wPvLVnZ2dnUVZ_gCdnZ2d@web-ster.com>
Lines: 61
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-ETDW9xREPsZL55M2bBqow5KFNRkHR8OxzHK7C8JVM/a+
+vlgCrkNLEF4HGE02hoH1pnoyKLC+33IqKW!
KjJYzc7NvnXivMulZqnFrVurQIvKSRM7piASySYPrYlnNEMrEBRwKQ6MiiojCT1Y/mjmhUrI9Eqv!
RvKgZ4Ye4lJyYfA=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:314

cliff wright wrote:
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> experience for me !!
> Regards Cliff Wright ZL1BDA ex G3NIA

Cliff, I'm glad you found a source.

And going with an in-country company is good for that sort of thing,
when you can find it.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?

"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From 2715462235236859841
X-Google-Thread: fc2a5,398dcadab0fdea13
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!Xl.tags.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.clear.net.nz!news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 05 Jul 2008 17:15:45 -0500
Date: Sun, 06 Jul 2008 10:15:45 +1200
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: source of crystals for Kenwood transceiver upgrade.
References: <4868c876$1@clear.net.nz> <g4bbcr$c4t$1@news.albasani.net>
<486ef20e@clear.net.nz> <xNGdnY1Xqa0wPvLVnZ2dnUVZ_gCdnZ2d@web-ster.com>
In-Reply-To: <xNGdnY1Xqa0wPvLVnZ2dnUVZ_gCdnZ2d@web-ster.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 080705-0, 05/07/2008), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-34-11.dsl.telstraclear.net
Message-ID: <486ff28e$1@clear.net.nz>
X-Original-Trace: 6 Jul 2008 10:15:42 +1200, 121-72-34-11.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 60
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-AuthenticatedUsername: news10531
X-Trace: sv3-gxlLinNuJlHcIGRidcS3lp1dI7L8DgVSQg0P2GP+SCXtgj1/00FiFfOhvlM/
P4Sm36J3ez6IhIYBD0S!wAFAX2j78n1RBITkVslpl4tGv9Z7vmzCOzM3Za3PIoTaffPVygxOXuHrQA==
X-Complaints-To: abuse@clear.net.nz
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
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properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:315
```

```
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>
>> Steve H wrote:
>>
>>> cliff wright wrote:
>>>
```

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>
>
> Cliff, I'm glad you found a source.
>
> And going with an in-country company is good for that sort of thing,
> when you can find it.
>
Well, not quite OM. I'm in New Zealamd and about 2,000 Km from Tasmania.
We are still an independent country so far . Hi!!!
Cliff

```
From 3445535525608893805
X-Google-Thread: fc2a5,1f150593ae61c212
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!k30g2000hse.googlegroups.com!not-for-
mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: teflon wire
Date: Tue, 17 Jun 2008 05:51:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 8
Message-ID: <1136e6c7-aa71-42c3-be10-1c55de2f8148@k30g2000hse.googlegroups.com>
References: <atKdnUYS1-t57snVnZ2dnUVZ_r7inZ2d@comcast.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1213707083 20978 127.0.0.1 (17 Jun 2008 12:51:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 17 Jun 2008 12:51:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k30g2000hse.googlegroups.com; posting-host=216.203.30.4;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:216

On Jun 14, 8:44=A0pm, Gary <gbel...@comcast.net> wrote:
> Looking for #20 teflon wire and of course need only a short length.
> Anyone out there have a favorite wire distributor who takes pity on us
> homebrew types and sells by the foot?? =A0Thanks all.
>
> gary

http://www.rfparts.com/combiner.html#special


From 4273878051759585662
X-Google-Thread: fc2a5,cc8b63d4a42a2737,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k13g2000hse.googlegroups.com!not-for-
mail
From: francesco.messineo@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: inductor help
Date: Wed, 18 Jun 2008 07:36:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 10
```

```
Message-ID: <78e2acc7-5949-4eb0-975b-be803ca5358e@k13g2000hse.googlegroups.com>
NNTP-Posting-Host: 62.10.72.144
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1213799766 25176 127.0.0.1 (18 Jun 2008 14:36:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 18 Jun 2008 14:36:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k13g2000hse.googlegroups.com; posting-host=62.10.72.144;
     posting-account=tkw4GwoAAABuBNQHOJ4OQ2oL0xvHjae6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.12)
     Gecko/20060216 Debian/1.7.12-1.1ubuntu2,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:217
```

Hello,
in an old VFO project that I'd like to duplicate (seems easy and
stable enough for me), the inductors (2) are specified as a number of
turns on a 5mm former with
"purple core". Now I know what a 5mm former might be, but I surely
don't have any idea what a purple core is and how to recognize it on
my parts department :-)
Any info is appreciated, thanks in advance.

Francesco IZ8DWF

```
From 2846199165028745490
X-Google-Thread: fc2a5,cc8b63d4a42a2737
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 18 Jun 2008 10:37:20 -0500
Date: Wed, 18 Jun 2008 08:37:21 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: inductor help
References: <78e2acc7-5949-4eb0-975b-be803ca5358e@k13g2000hse.googlegroups.com>
In-Reply-To: <78e2acc7-5949-4eb0-975b-be803ca5358e@k13g2000hse.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <is2dnTJjV9MstsTVnZ2dnUVZ_uWdnZ2d@web-ster.com>
Lines: 35
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-57DiBZAdYgEUo0kABH/4/
vvpG4DZK5mKbUGevu1tQxb8DHhThyH7dwksUO6hh8G85s+i87EOL8V1JoT!
fZG2DNMcWhR4OfxK1kG87nCH8kB4atapCwXE33/HXT+N+CkBdlSVBJajnFmtfpnynGoCkXmYIqbC!
NjYNSaXwoIu2scg=
```

X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:218

francesco.messineo@gmail.com wrote:
> Hello,
> in an old VFO project that I'd like to duplicate (seems easy and
> stable enough for me), the inductors (2) are specified as a number of
> turns on a 5mm former with
> "purple core". Now I know what a 5mm former might be, but I surely
> don't have any idea what a purple core is and how to recognize it on
> my parts department :-)
> Any info is appreciated, thanks in advance.
>
> Francesco IZ8DWF

Some company in Europe that was popular with amateurs made ferrite or iron-powder cores and color coded the mixes. Purple doesn't match the color codes for Micro-Metals cores that are available in the US, so it's not one of theirs (or it's an obscure one).

You may be able to figure out the inductance, and make the inductor some other way. This takes away some of the 'easy', but it's at least a method.

If you can post the schematic and the operating frequency somewhere, someone here may take a stab at suggesting an inductance.

Or wait and see if someone in Europe or with experience with European parts gives you a response.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From 1963347329301303314
X-Google-Thread: fc2a5,cc8b63d4a42a2737
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!k30g2000hse.googlegroups.com!not-for-mail
From: francesco.messineo@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: inductor help
Date: Wed, 18 Jun 2008 08:46:18 -0700 (PDT)

```
Organization: http://groups.google.com
Lines: 29
Message-ID: <816ed3c9-30dd-4859-aff1-096354b4a063@k30g2000hse.googlegroups.com>
References: <78e2acc7-5949-4eb0-975b-be803ca5358e@k13g2000hse.googlegroups.com>
     <is2dnTJjV9MstsTVnZ2dnUVZ_uWdnZ2d@web-ster.com>
NNTP-Posting-Host: 62.10.72.144
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1213803978 29696 127.0.0.1 (18 Jun 2008 15:46:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 18 Jun 2008 15:46:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k30g2000hse.googlegroups.com; posting-host=62.10.72.144;
     posting-account=tkw4GwoAAABuBNQHOJ4OQ2oL0xvHjae6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.12)
     Gecko/20060216 Debian/1.7.12-1.1ubuntu2,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:219
```

On 18 Giu, 17:37, Tim Wescott <t...@seemywebsite.com> wrote:

> francesco.messi...@gmail.com wrote:
> > Hello,
> > in an old VFO project that I'd like to duplicate (seems easy and
> > stable enough for me), the inductors (2) are specified as a number of
> > turns on a 5mm former with
> > "purple core". Now I know what a 5mm former might be, but I surely
> > don't have any idea what a purple core is and how to recognize it on
> > my parts department :-)
> > Any info is appreciated, thanks in advance.
>
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>
> Some company in Europe that was popular with amateurs made ferrite or
> iron-powder cores and color coded the mixes. Purple doesn't match the
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> not one of theirs (or it's an obscure one).
>
> You may be able to figure out the inductance, and make the inductor some
> other way. This takes away some of the 'easy', but it's at least a method.
>
> If you can post the schematic and the operating frequency somewhere,
> someone here may take a stab at suggesting an inductance.
>

the schematic is 470K pdf, write me privately and I'll send it.
Thanks for help.

Francesco IZ8DWF

```
From 825099534682814911
X-Google-Thread: fc2a5,cc8b63d4a42a2737
```

X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!34g2000hsh.googlegroups.com!not-for-mail
From: francesco.messineo@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: inductor help
Date: Wed, 18 Jun 2008 09:02:14 -0700 (PDT)
Organization: http://groups.google.com
Lines: 35
Message-ID: <bdd47766-3a89-49e3-9bdb-d00104651efb@34g2000hsh.googlegroups.com>
References: <78e2acc7-5949-4eb0-975b-be803ca5358e@k13g2000hse.googlegroups.com>
<is2dnTJjV9MstsTVnZ2dnUVZ_uWdnZ2d@web-ster.com>
NNTP-Posting-Host: 62.10.72.144
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1213804934 32667 127.0.0.1 (18 Jun 2008 16:02:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 18 Jun 2008 16:02:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 34g2000hsh.googlegroups.com; posting-host=62.10.72.144;
posting-account=tkw4GwoAAABuBNQHOJ4OQ2oL0xvHjae6
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.12)
Gecko/20060216 Debian/1.7.12-1.1ubuntu2,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:220

On 18 Giu, 17:37, Tim Wescott <t...@seemywebsite.com> wrote:
> francesco.messi...@gmail.com wrote:
> > Hello,
> > in an old VFO project that I'd like to duplicate (seems easy and
> > stable enough for me), the inductors (2) are specified as a number of
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> > Any info is appreciated, thanks in advance.
>
> > Francesco IZ8DWF
>
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> color codes for Micro-Metals cores that are available in the US, so it's
> not one of theirs (or it's an obscure one).
>
> You may be able to figure out the inductance, and make the inductor some
> other way. This takes away some of the 'easy', but it's at least a method.
>

Well, actually the inductances should be approximately 76 nH and 9.2
uH according to the frequency range of the VFO. But not having a
reliable method to determine cores characteristics from the ones found

on the parts box, I'd rather identify the good cores in some other
manner.
The long way will be just winding some (random?) number of turns on
random cores and see where it goes to oscillate, if oscillating at
all :-) But it's true, it's not as easy as before, and still wouldn't
tell me if the selected core is well suited for the frequency range
I'm interested in.

Francesco IZ8DWF

```
From -6567584825043664330
X-Google-Thread: fc2a5,cc8b63d4a42a2737
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
m36g2000hse.googlegroups.com!not-for-mail
From: Leon <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: inductor help
Date: Wed, 18 Jun 2008 13:18:58 -0700 (PDT)
Organization: http://groups.google.com
Lines: 46
Message-ID: <1f6fb45c-a315-4199-b38e-076c7b864c1d@m36g2000hse.googlegroups.com>
References: <78e2acc7-5949-4eb0-975b-be803ca5358e@k13g2000hse.googlegroups.com>
     <is2dnTJjV9MstsTVnZ2dnUVZ_uWdnZ2d@web-ster.com> <bdd47766-3a89-49e3-9bdb-
d00104651efb@34g2000hsh.googlegroups.com>
NNTP-Posting-Host: 86.145.228.233
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1213820339 19661 127.0.0.1 (18 Jun 2008 20:18:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 18 Jun 2008 20:18:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m36g2000hse.googlegroups.com; posting-host=86.145.228.233;
     posting-account=QWZLZQkAAADFmB_RJlmk3T-GvINRaZti
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9)
     Gecko/2008052906 Firefox/3.0,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:221
```

On 18 Jun, 17:02, francesco.messi...@gmail.com wrote:
> On 18 Giu, 17:37, Tim Wescott <t...@seemywebsite.com> wrote:
>
>
>
> > francesco.messi...@gmail.com wrote:
> > > Hello,
> > > in an old VFO project that I'd like to duplicate (seems easy and
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> > > turns on a 5mm former with

```
> > > "purple core". Now I know what a 5mm former might be, but I surely
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> > > Francesco IZ8DWF
>
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> > iron-powder cores and color coded the mixes. =A0Purple doesn't match th=
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> > color codes for Micro-Metals cores that are available in the US, so it'=
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> > not one of theirs (or it's an obscure one).
>
> > You may be able to figure out the inductance, and make the inductor som=
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> > other way. =A0This takes away some of the 'easy', but it's at least a m=
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> all :-) But it's true, it's not as easy as before, and still wouldn't
> tell me if the selected core is well suited for the frequency range
> I'm interested in.
>
> Francesco IZ8DWF

Neosid coil formers and cores have always been popular in Europe. They
are still made, but it can be difficult to buy them.

Leon



From -7013920712537297992
X-Google-Thread: fc2a5,cc8b63d4a42a2737
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newsfeed.news2me.com!newsfeed.icl.net!newsfeed.fjserv.net!
peer-uk.news.demon.net!kibo.news.demon.net!mutlu.news.demon.net!news.demon.co.uk!
demon!multnomah.demon.co.uk!Derek
From: "Derek R. Smith" <Derek@multnomah.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: inductor help
Date: Wed, 18 Jun 2008 21:39:00 +0100
Organization: Impeccable
Lines: 28
Message-ID: <elLkKXAkJXWIFw7L@multnomah.demon.co.uk>
```

References: <78e2acc7-5949-4eb0-975b-be803ca5358e@k13g2000hse.googlegroups.com>
Reply-To: "Derek R. Smith" <derek@multnomah.demon.co.uk>
NNTP-Posting-Host: multnomah.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1213822104 28083 80.176.132.119 (18 Jun 2008 20:48:24 GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Wed, 18 Jun 2008 20:48:24 +0000 (UTC)
User-Agent: Turnpike/6.07-M (<8CZKl0vQEW7+kVCPYoP8U+mwwe>)
Xref: g2news1.google.com rec.radio.amateur.homebrew:222

The following link will take you to some of the Denco (and other manufacturer's) data sheets about the old coil formers and dust-cores.

http://vintageradio.me.uk/info/dencocoils.htm

Hope this helps

Derek.

In message
<78e2acc7-5949-4eb0-975b-be803ca5358e@k13g2000hse.googlegroups.com>,
francesco.messineo@gmail.com writes
>Hello,
>in an old VFO project that I'd like to duplicate (seems easy and
>stable enough for me), the inductors (2) are specified as a number of
>turns on a 5mm former with
>"purple core". Now I know what a 5mm former might be, but I surely
>don't have any idea what a purple core is and how to recognize it on
>my parts department :-)
>Any info is appreciated, thanks in advance.
>
>Francesco IZ8DWF

--
Derek R. Smith.

From 2922561777751148089
X-Google-Thread: fc2a5,feaa26acc8d5365f,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!
trnddc01.POSTED!291cd109!not-for-mail
From: Al <no.spam@wanted.com>
Subject: Newsgroup Elimination
Newsgroups: rec.radio.amateur.homebrew

User-Agent: Pan/0.129 (Benson & Hedges Moscow Gold)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 18
Message-ID: <q6f6k.61015$Ni1.7141@trnddc01>
Date: Wed, 18 Jun 2008 21:28:54 GMT
NNTP-Posting-Host: 70.19.175.88
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc01 1213824534 70.19.175.88 (Wed, 18 Jun 2008 17:28:54 EDT)
NNTP-Posting-Date: Wed, 18 Jun 2008 17:28:54 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:223

I have sent the following to Verizon. I hope more do the same. They are eliminating access to all but 8 supergroups.

Why are you deleting perfectly good newsgroups from your service? I routinely access the following"
alt.autos.jaguar
alt.autos.subaru
alt.engineering.electrical
alt.ham-radio
alt.os.linux.ubunt
rec.radio.amateur.homebrew
If my access is denied, I will encourage my Senate and House delegations to enact legistation that will restore my legitimate access to these groups. I think the last thing you would want is more legislation on your networks.

Al

From 5920323826231435399
X-Google-Thread: fc2a5,64d24638f4f0f4ed
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!border1.nntp.ams.giganews.com!nntp.giganews.com!uio.no!fi.sn.net!newsfeed1.fi.sn.net!news.song.fi!not-for-mail
Date: Thu, 19 Jun 2008 01:12:25 +0300
From: Postipoika <pikkupoika.postiljooni@hotmail.com>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Codewheel Generator for Homebrew Optical Encoders
References: <sj7f54dsblkmal38en143fulo1940m5frq@4ax.com>
In-Reply-To: <sj7f54dsblkmal38en143fulo1940m5frq@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 080618-0, 2008.06.18), Outbound message
X-Antivirus-Status: Clean
Lines: 30

```
Message-ID: <48598819$0$14991$4f793bc4@news.tdc.fi>
Organization: TDC Internet Services
NNTP-Posting-Host: 82-203-199-125.dsl.gohome.fi
X-Trace: 1213827097 news.tdc.fi 14991 82.203.199.125:1160
X-Complaints-To: abuse@tdcnet.fi
Xref: g2news1.google.com rec.radio.amateur.homebrew:224

Tom2000 kirjoitti:
> Howdy, Folks,
>
> I recently released a freeware Win98/2000/XP/Vista program that
> generates codewheel images and prints them to any home inkjet or laser
> printer.

>
> Speaking of my web page, I think I should probably tell you where to
> find it:
>
>    http://www.mindspring.com/~tom2000/Delphi/Codewheel.html
>
>
> Very 73,
>
>    Tom  AB9B
>
>

Thanks Tom

I will try. DIY is my fun
Now in my test circuit is a cheap mechanical front panel encoder.
Only 16 steps/rev.
It doesn't satisfy me.
Shaft has no bearings in  mounting and it has inconvenient play.


postipoika



From 4778924325012215396
X-Google-Thread: fc2a5,feaa26acc8d5365f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news2.google.com!news.glorb.com!news-
out.octanews.net!indigo.octanews.net!auth.brown.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Newsgroup Elimination
Date: Thu, 19 Jun 2008 04:21:29 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.06.19.11.21.17.274104@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <q6f6k.61015$Ni1.7141@trnddc01>
MIME-Version: 1.0
```

Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 11
Organization: Octanews
NNTP-Posting-Date: 19 Jun 2008 06:21:33 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:225

Unfortunately, nothing to do with the net is a protected right, it is a
privilege. Most ISP's don't even know what Usenet is let alone carry
it.

I buy blocks from Octanews, because while my current ISP has access, they
cap it at 16Kb/s. Makes downloading mp3's on my cellphone faster. Octanews
blocks aren't limited as to speed, just Mbytes.

Good luck!

--
Gregg

From 7887460417442556833
X-Google-Thread: fc2a5,cc8b63d4a42a2737
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 19 Jun 2008 07:01:33 -0500
Date: Thu, 19 Jun 2008 07:02:06 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: inductor help
References: <78e2acc7-5949-4eb0-975b-be803ca5358e@k13g2000hse.googlegroups.com>
In-Reply-To: <78e2acc7-5949-4eb0-975b-be803ca5358e@k13g2000hse.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <DemdnR0iGLkD18fVnZ2dnUVZ8rednZ2d@pipex.net>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.76.16
X-Trace: sv3-1V1RBkdIqCwQL1bXve9DRrazYzL8bY+Z2vGU1aKbEpE/
1st45IMQvThXmzHc+RoG2jhJtFddO1IYvp+!CIigAiet2t2Sxin5n/
iZBbTE7y4hhFKsAMbwEyAgAmdY1E4bD1aBgcwisdz+930wVUN1Z/GxreVc!
WkXdLTzn33oU4WxH8z3UONmb
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39

```
Xref: g2news1.google.com rec.radio.amateur.homebrew:226

francesco.messineo@gmail.com wrote:
> Hello,
> in an old VFO project that I'd like to duplicate (seems easy and
> stable enough for me), the inductors (2) are specified as a number of
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> "purple core". Now I know what a 5mm former might be, but I surely
> don't have any idea what a purple core is and how to recognize it on
> my parts department :-)
> Any info is appreciated, thanks in advance.
>
> Francesco IZ8DWF
=============================================
Purple coloured toroids are for example Ni-Zn ferrite type 4C65 made by
Philips.
For inductors used in frequency determining circuits (vfo), powder-iron
cores are normally used .

Ferrite for RF applications is usually applied in chokes , baluns, ununs.


Frank   GM0CSZ / KN6WH




From -8735622726497089678
X-Google-Thread: fc2a5,4b24693e33b16fc5,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i18g2000prn.googlegroups.com!not-for-
mail
From: tomcorker@googlemail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Soundcard Interface for IC 730
Date: Thu, 19 Jun 2008 11:41:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 9
Message-ID: <643befea-a057-486c-9064-f4c44645da7b@i18g2000prn.googlegroups.com>
NNTP-Posting-Host: 90.195.205.254
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1213900866 26172 127.0.0.1 (19 Jun 2008 18:41:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 19 Jun 2008 18:41:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i18g2000prn.googlegroups.com; posting-host=90.195.205.254;
     posting-account=rK_oxQoAAACa91KfohNpt5xGH5Ia-wkt
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.3)
     Gecko/20061201 Firefox/2.0.0.3 (Ubuntu-feisty),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:227
```

I am currently building a radio - sound card interface for my IC-730 so i can use PSK31. AIUI, the mic that came with the rig contains a preamp, so presumably the radio is expecting an audio level above a usual mic. Does this mean I can simply use the audio level from the sound card straight into the Mic input on the radio via a 1:1 transformer for isolation, with no need for a voltage divider to bring the level down?

Thanks.

```
From 8661009466690874651
X-Google-Thread: fc2a5,feaa26acc8d5365f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-
in-01.newsfeed.easynews.com!news-in-02.newsfeed.easynews.com!core-easynews!
easynews.com!easynews!en-nntp-04.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <q6f6k.61015$Ni1.7141@trnddc01>
<pan.2008.06.19.11.21.17.274104@localhost.localdomain>
Subject: Re: Newsgroup Elimination
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <5eC6k.179351$pm2.3618@en-nntp-04.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Thu, 19 Jun 2008 16:47:18 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:228
```

"geek" <geek@localhost.localdomain> wrote in message news:pan.2008.06.19.11.21.17.274104@localhost.localdomain...

> Unfortunately, nothing to do with the net is a protected right, it is a privilege.

Actually it's a contractual agreement between you and your ISP, but realistically most "consumer grade" ISPs promise nothing -- no guarantees on speed, services, ports, uptime, etc.!

```
From 5881898287286300009
X-Google-Thread: fc2a5,feaa26acc8d5365f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!198.186.194.249.MISMATCH!transit3.readnews.com!news-out.readnews.com!news-xxxfer.readnews.com!panix!panix1.panix.com!arthures
From: A <arthures@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Newsgroup Elimination
Date: Thu, 19 Jun 2008 20:48:16 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 30
Message-ID: <Pine.NEB.4.64.0806192046380.9693@panix1.panix.com>
References: <q6f6k.61015$Ni1.7141@trnddc01>
NNTP-Posting-Host: panix1.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1213922898 26946 166.84.1.1 (20 Jun 2008 00:48:18 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 20 Jun 2008 00:48:18 +0000 (UTC)
In-Reply-To: <q6f6k.61015$Ni1.7141@trnddc01>
Xref: g2news1.google.com rec.radio.amateur.homebrew:229

You might try access via google (groups.google.com) and web browsing. Also, look at other ISPs. There are a lot out there. Lots are more friendly to the old "free" internet spirit. I use www.panix.com quite a bit of the time. There are many others.

======= no change to below, included for reference and context ====

On Wed, 18 Jun 2008, Al wrote:

> I have sent the following to Verizon. I hope more do the same. They are
> eliminating access to all but 8 supergroups.
>
>
> Why are you deleting perfectly good newsgroups from your service? I
> routinely access the following"
> alt.autos.jaguar
> alt.autos.subaru
> alt.engineering.electrical
> alt.ham-radio
> alt.os.linux.ubunt
> rec.radio.amateur.homebrew
> If my access is denied, I will encourage my Senate and House delegations
> to enact legistation that will restore my legitimate access to these
> groups. I think the last thing you would want is more legislation on your
> networks.
>
> Al
>

From 4374803077342280413
X-Google-Thread: fc2a5,4b24693e33b16fc5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 20 Jun 2008 04:27:14 -0500
Date: Fri, 20 Jun 2008 04:28:05 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Soundcard Interface for IC 730
References: <643befea-a057-486c-9064-f4c44645da7b@i18g2000prn.googlegroups.com>
In-Reply-To: <643befea-a057-486c-9064-f4c44645da7b@i18g2000prn.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <pLmdnaWVmpxv6sbVnZ2dnUVZ8vqdnZ2d@pipex.net>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.76.16
X-Trace: sv3-
zJ2kSw+evQxFCj4WXoBxy1yB1EJzAcXG+5MsZkYd7VyfXHhNoAfkXiIm+M3pDjmsgcuubDPddT358n4!
kTvNxBOq5alss22OF4YwuNbEtGeoXaplxSaT1vIlgVZL+xgD2DMgagnDonioEf146+m6KETSwQne!
66czruFo6tEwdjezbTf2gfP7
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:230

tomcorker@googlemail.com wrote:
> I am currently building a radio - sound card interface for my IC-730
> so i can use PSK31. AIUI, the mic that came with the rig contains a
> preamp, so presumably the radio is expecting an audio level above a
> usual mic. Does this mean I can simply use the audio level from the
> sound card straight into the Mic input on the radio via a 1:1
> transformer for isolation, with no need for a voltage divider to bring
> the level down?
>
> Thanks.

====================================
Transformer does not need to be 1:1 exactly
Suggest you include an approx 1000 Ohms trimpot to fine adjust the mic
port input from the transformer. Assuming the radio audio input
impedance is in the order of 500 Ohms.

Frank   GM0CSZ / KN6WH

```
From 5606809859247902748
X-Google-Thread: fc2a5,4b24693e33b16fc5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!newsfeed.icl.net!newsfeed.fjserv.net!newsfeed.ision.net!
newsfeed2.easynews.net!ision!citadel.nobulus.com!newsfeed1.fi.sn.net!fi.sn.net!
newsfeed2.fi.sn.net!news.song.fi!not-for-mail
Date: Fri, 20 Jun 2008 15:34:42 +0300
From: Postipoika <pikkupoika.postiljooni@hotmail.com>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Soundcard Interface for IC 730
References: <643befea-a057-486c-9064-f4c44645da7b@i18g2000prn.googlegroups.com>
<pLmdnaWVmpxv6sbVnZ2dnUVZ8vqdnZ2d@pipex.net>
In-Reply-To: <pLmdnaWVmpxv6sbVnZ2dnUVZ8vqdnZ2d@pipex.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 080619-0, 2008.06.19), Outbound message
X-Antivirus-Status: Clean
Lines: 40
Message-ID: <485ba3ad$0$23817$4f793bc4@news.tdc.fi>
Organization: TDC Internet Services
NNTP-Posting-Host: 82-203-199-125.dsl.gohome.fi
X-Trace: 1213965229 news.tdc.fi 23817 82.203.199.125:1928
X-Complaints-To: abuse@tdcnet.fi
Xref: g2news1.google.com rec.radio.amateur.homebrew:231

Highland Ham kirjoitti:
> tomcorker@googlemail.com wrote:
>> I am currently building a radio - sound card interface for my IC-730
>> so i can use PSK31. AIUI, the mic that came with the rig contains a
>> preamp, so presumably the radio is expecting an audio level above a
>> usual mic. Does this mean I can simply use the audio level from the
>> sound card straight into the Mic input on the radio via a 1:1
>> transformer for isolation, with no need for a voltage divider to bring
>> the level down?
>>
>> Thanks.
> ===================================
> Transformer does not need to be 1:1 exactly
> Suggest you include an approx 1000 Ohms trimpot to fine adjust the mic
> port input from the transformer.  Assuming the radio audio input
> impedance is in the order of 500 Ohms.
>
```

>
> Frank   GM0CSZ / KN6WH
>
>
>
>

Please note that a single trafo only in mic line doesn't isolate
satisfactory.
Otherwise there will still remain humming earth loops.

If your rig has a phone patch or a line input it is preferred to use
these. You need not to play with plugs .
In many rigs the VOX is not controlled via line input. In that case PTT
rules on the air.

Be ready to use a trafo also in headphone output line and a relay or an
opto isolator for PTT.

It is most simple to use COM port RTS or DTR for PTT.
KISS: Connect a high bright led and a 5V dil relay in series directly
into RTS. Led is very nice to show "On the Air".

postipoika

From 2394901928357992210
X-Google-Thread: fc2a5,4b24693e33b16fc5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!j22g2000hsf.googlegroups.com!not-for-mail
From: tomcorker@googlemail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Soundcard Interface for IC 730
Date: Fri, 20 Jun 2008 05:56:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <336a4016-4be2-4610-9014-977e89645bd7@j22g2000hsf.googlegroups.com>
References: <643befea-a057-486c-9064-f4c44645da7b@i18g2000prn.googlegroups.com>
     <pLmdnaWVmpxv6sbVnZ2dnUVZ8vqdnZ2d@pipex.net>
NNTP-Posting-Host: 90.200.98.58
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1213966613 26131 127.0.0.1 (20 Jun 2008 12:56:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 20 Jun 2008 12:56:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j22g2000hsf.googlegroups.com; posting-host=90.200.98.58;
     posting-account=rK_oxQoAAACa91KfohNpt5xGH5Ia-wkt
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9)
     Gecko/2008052906 Firefox/3.0,gzip(gfe),gzip(gfe)

```
Xref: g2news1.google.com rec.radio.amateur.homebrew:232

On 20 Jun, 04:28, Highland Ham <abcgm0csz.kn6wh...@dsl.pipex.com>
wrote:

>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
> Transformer does not need to be 1:1 exactly
> Suggest you include an approx 1000 Ohms trimpot to fine adjust the mic
> port input from the transformer. =A0Assuming the radio audio input
> impedance is in the order of 500 Ohms.
>
> Frank =A0 =A0 GM0CSZ / KN6WH

Thanks. I'll give that a try.



From 8675636794529903170
X-Google-Thread: fc2a5,4b24693e33b16fc5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!x35g2000hsb.googlegroups.com!not-for-
mail
From: tomcorker@googlemail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Soundcard Interface for IC 730
Date: Fri, 20 Jun 2008 06:00:43 -0700 (PDT)
Organization: http://groups.google.com
Lines: 29
Message-ID: <a179c84b-d607-486f-97a8-489fa85f3f91@x35g2000hsb.googlegroups.com>
References: <643befea-a057-486c-9064-f4c44645da7b@i18g2000prn.googlegroups.com>
     <pLmdnaWVmpxv6sbVnZ2dnUVZ8vqdnZ2d@pipex.net>
<485ba3ad$0$23817$4f793bc4@news.tdc.fi>
NNTP-Posting-Host: 90.200.98.58
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1213966843 26870 127.0.0.1 (20 Jun 2008 13:00:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 20 Jun 2008 13:00:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x35g2000hsb.googlegroups.com; posting-host=90.200.98.58;
     posting-account=rK_oxQoAAACa91KfohNpt5xGH5Ia-wkt
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9)
     Gecko/2008052906 Firefox/3.0,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:233

On 20 Jun, 13:34, Postipoika <pikkupoika.postiljo...@hotmail.com>
wrote:
>
> Please note that a single trafo only in mic line doesn't isolate
```

> satisfactory.
> Otherwise there will still remain humming earth loops.
>
> If your rig has a phone patch or a line input it is preferred to use
> these. You need not to play with plugs .
> In many rigs the VOX is not controlled via line input. In that case PTT
> rules on the air.
>
> Be ready to use a trafo also in headphone output line and a relay or an
> opto isolator for PTT.
>
> It is most simple to use COM port RTS or DTR for PTT.
> KISS: Connect a high bright led and a 5V dil relay in series directly
> into RTS. Led is very nice to show "On the Air".
>
> postipoika

Hi Postipoika,

Unfortunately, my rig doesn't appear to have a line input, so using
the mic connector looks like the only option.

I had already planned to use another transformer to isolate the
headphone socket on the radio from the soundcard, and an optoisolator
on on RTS for PTT, although I may get away with just using the VOX.

```
From -1239170467439902777
X-Google-Thread: fc2a5,d39f7f58f9e15861,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i36g2000prf.googlegroups.com!not-for-
mail
From: "www.24hoursneakers.com" <HHL20008@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Sell  Discounts New Air Jordan1-23 Air max bape sneakers
Date: Fri, 20 Jun 2008 13:34:54 -0700 (PDT)
Organization: http://groups.google.com
Lines: 8
Message-ID: <1ace4314-0e07-4254-9e23-26a713dcb617@i36g2000prf.googlegroups.com>
NNTP-Posting-Host: 58.22.132.206
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1213994094 11078 127.0.0.1 (20 Jun 2008 20:34:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 20 Jun 2008 20:34:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i36g2000prf.googlegroups.com; posting-host=58.22.132.206;
     posting-account=1ZWNOgoAAAC9Cx_xqgUQbifuqwchh6MD
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; MSN
     Optimized;CN),gzip(gfe),gzip(gfe)
```

```
Xref: g2news1.google.com rec.radio.amateur.homebrew:234

Air Max 87 / 90 / 95 / 97 / 360 / 180 / 2003 / 2008 / TN / LTD
Sneakers,
Shox R2 / R3 / R4 / R5 / R6 / OZ / NZ / TL / Turob / BMW Sneakers

Discout Puma Trainers, Adidas Trainers, Lacoste Trainers,  Jordan1-23
Sneakers, Prada Sneakers, AF1 Sneakers, Mauri Sneakers, Dsquared
Hogan Supplier.
http://groups.google.com/group/macromedia.flex.flex_builder/browse_thread/thread/
c563994f44a2e26d


From 7369096803268529675
X-Google-Thread: fc2a5,feaa26acc8d5365f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews7.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14eol (X11/20080509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Newsgroup Elimination
References: <q6f6k.61015$Ni1.7141@trnddc01>
In-Reply-To: <q6f6k.61015$Ni1.7141@trnddc01>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 23
Message-ID: <CPU6k.8715$LL4.3671@bignews7.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
enggpaojkliedbjjdbdpiflmbcekedmfhojhikkbagflhcboncoddaghlhngifdbobbbcmckokoagpklhn
calgbkkjelgoohdipoccifmainhjgpiomjfblpoepbnocplhegcnnlkglghcminfjidifklkedecdl
NNTP-Posting-Date: Fri, 20 Jun 2008 16:56:02 EDT
Organization: BellSouth Internet Group
Date: Fri, 20 Jun 2008 16:58:35 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:235

Al wrote:
> I have sent the following to Verizon. I hope more do the same. They are
> eliminating access to all but 8 supergroups.
>
>
> Why are you deleting perfectly good newsgroups from your service? I
> routinely access the following"
> alt.autos.jaguar
> alt.autos.subaru
> alt.engineering.electrical
> alt.ham-radio
> alt.os.linux.ubunt
```

> rec.radio.amateur.homebrew
> If my access is denied, I will encourage my Senate and House delegations
> to enact legistation that will restore my legitimate access to these
> groups. I think the last thing you would want is more legislation on your
> networks.
>
> Al

Right now I am using AT&T (bellsouth) DSL. If they drop the news groups
and Comcast doesn't, I think bellsouth will lose both my phone and
internet business. It's nice to have TWO providers of the same service
competing with each other!

```
From -2641717931746402769
X-Google-Thread: fc2a5,feaa26acc8d5365f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 21 Jun 2008 06:05:07 -0500
Date: Sat, 21 Jun 2008 12:04:24 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Newsgroup Elimination
References: <q6f6k.61015$Ni1.7141@trnddc01>
<CPU6k.8715$LL4.3671@bignews7.bellsouth.net>
In-Reply-To: <CPU6k.8715$LL4.3671@bignews7.bellsouth.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <3d6dnT6Cq6z-fcHVnZ2dneKdnZydnZ2d@pipex.net>
Lines: 12
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.76.16
X-Trace: sv3-wNeR+01e+jZ1l9WO6J+qnW7OFXhxKF5WWHtsTB/fczgK4od309oF222MXMk/
onX9aYJVvChqFPgKLWZ!eMPMqDANPG+
+o9Akw2W6+PLrkF2XZggdhmz3RdXwisEObHeBO3IJOGBm1DDsyXKbyEWyqxR+Shvl!
6ebzKBurbYSGmusfCDza7YKW
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:236
```

ken scharf wrote:

> Right now I am using AT&T (bellsouth) DSL. If they drop the news groups
> and Comcast doesn't, I think bellsouth will lose both my phone and
> internet business. It's nice to have TWO providers of the same service
> competing with each other!

=======================================
Agreed, this is rather OT ,but if you have a (A)DSL connection with a
provider in the USA , do you have to 'sit out' a say 12 months contract
before you can switch or can you switch at any time ?

Frank   GM0CSZ / KN6WH

From -3876707972988741896
X-Google-Thread: fc2a5,1f150593ae61c212
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out03a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx01.iad01.newshosting.com!newshosting.com!69.28.186.77.MISMATCH!hwmpeer03.lga!
hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe24.lga.POSTED!
7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <atKdnUYS1-t57snVnZ2dnUVZ_r7inZ2d@comcast.com>
Subject: Re: teflon wire
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <iZ77k.1738$%q.1060@newsfe24.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe24.lga 1214057422 72.209.25.33 (Sat, 21 Jun 2008 07:10:22 MST)
NNTP-Posting-Date: Sat, 21 Jun 2008 07:10:22 MST
Organization: Cox
Date: Sat, 21 Jun 2008 10:10:11 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:237

"Gary" <gbelcas@comcast.net> wrote in message
news:atKdnUYS1-t57snVnZ2dnUVZ_r7inZ2d@comcast.com...
>
>
> Looking for #20 teflon wire and of course need only a short length. Anyone
> out there have a favorite wire distributor who takes pity on us
> homebrew types and sells by the foot?? Thanks all.
>
> gary

I wish you'd respond to the question of how many feet you
need. I received your email, but you never answered the
question of how many feet a "short length" consists of.

```
From -2494572229834947351
X-Google-Thread: fc2a5,4b24693e33b16fc5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 21 Jun 2008 12:45:11 -0500
From: "gb" <w9nogbspam@arrlspamno.net>
Newsgroups: rec.radio.amateur.homebrew
References: <643befea-a057-486c-9064-f4c44645da7b@i18g2000prn.googlegroups.com>
<pLmdnaWVmpxv6sbVnZ2dnUVZ8vqdnZ2d@pipex.net>
<485ba3ad$0$23817$4f793bc4@news.tdc.fi> <a179c84b-
d607-486f-97a8-489fa85f3f91@x35g2000hsb.googlegroups.com>
Subject: Re: Soundcard Interface for IC 730
Date: Sat, 21 Jun 2008 12:44:56 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5512
X-RFC2646: Format=Flowed; Original
Message-ID: <l7SdnVdJdtS6o8DVnZ2dnUVZ_vjinZ2d@comcast.com>
Lines: 55
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.14.244.109
X-Trace: sv3-xsOzyRHwHfFDHCH+PtG/
oimywVp16av89X5WnHf8tSVhk7OtPXhsxj0FbpE7dEHpbRXSrQqqkJkz2Ee!
MWGarhTs2WUKJPhhoqrEKjaUGa7OYHGIzJvuL5DvRU1qiqiYXq03ZNDFtshNraKLMxjhX66xheyg!
KqQ4GsuQFZ7nxx5l6G5MCjl8HHuzCQ==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:238

<tomcorker@googlemail.com> wrote in message
news:a179c84b-d607-486f-97a8-489fa85f3f91@x35g2000hsb.googlegroups.com...
> On 20 Jun, 13:34, Postipoika <pikkupoika.postiljo...@hotmail.com>
> wrote:
>>
>> Please note that a single trafo only in mic line doesn't isolate
>> satisfactory.
>> Otherwise there will still remain humming earth loops.
>>
>> If your rig has a phone patch or a line input it is preferred to use
>> these. You need not to play with plugs .
>> In many rigs the VOX is not controlled via line input. In that case PTT
>> rules on the air.
>>
```

```
>> Be ready to use a trafo also in headphone output line and a relay or an
>> opto isolator for PTT.
>>
>> It is most simple to use COM port RTS or DTR for PTT.
>> KISS: Connect a high bright led and a 5V dil relay in series directly
>> into RTS. Led is very nice to show "On the Air".
>>
>> postipoika
>
> Hi Postipoika,
>
> Unfortunately, my rig doesn't appear to have a line input, so using
> the mic connector looks like the only option.
>
> I had already planned to use another transformer to isolate the
> headphone socket on the radio from the soundcard, and an optoisolator
> on on RTS for PTT, although I may get away with just using the VOX.
=========
Tom -

That is correct, the low-gain or "zero" models (last digit in model number
being zero of sold-state late 1970s /early 1980s vintage radios) from Icom
(IC-730 being one) ..... did have this problem (pre-amp was in microphone
and inside the radio on the input)
http://www.heilsound.com/amateur/tips/all_icom.htm

You are correct in that you MAY not need the voltage divider -- having an
adjustable input such as that with the Jim Mitrenga, N9ART sound card
interface "A Flexible Digital-Mode Interface".  BTW, although that
RadioShack relay is no longer available -- there is an NTE equivalent that
is a "drop-in replacement".
http://www.farcircuits.net/
http://www.qsl.net/wm2u/images/interface_n9art.pdf

w9gb
```

```
From 3024277288183690137
X-Google-Thread: fc2a5,1f150593ae61c212
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 22 Jun 2008 13:37:31 -0500
Date: Sun, 22 Jun 2008 11:37:31 -0700
From: Gary <gbelcas@comcast.net>
```

```
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: teflon wire
References: <atKdnUYS1-t57snVnZ2dnUVZ_r7inZ2d@comcast.com> <iZ77k.1738$
%q.1060@newsfe24.lga>
In-Reply-To: <iZ77k.1738$%q.1060@newsfe24.lga>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <sridnbO4GtF2BsPVnZ2dnUVZ_uSdnZ2d@comcast.com>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 67.170.123.87
X-Trace: sv3-
ketspjQYvgLbZXxuT553Db38hhYmvenX87bJ3ISiuB17PpYCK+oOqOnETol0yC3NjlRj5GAU47jNNJv!
3tQif7VigKdq854k7T31m5RhJnd527yfLP/a+lbWvHeZu8nvW+v4eUD4Fu/rdmM9dm4PQvgJIfIO!
doamev6dBqhswQ3aSCfb8tT5L5/PZw==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:239

Tio Pedro wrote:
> "Gary" <gbelcas@comcast.net> wrote in message
> news:atKdnUYS1-t57snVnZ2dnUVZ_r7inZ2d@comcast.com...
>>
>> Looking for #20 teflon wire and of course need only a short length. Anyone
>> out there have a favorite wire distributor who takes pity on us
>> homebrew types and sells by the foot??  Thanks all.
>>
>> gary
>
> I wish you'd respond to the question of how many feet you
> need.  I received your email, but you never answered the
> question of how many feet a "short length" consists of.
>
>

Hi Tio,

Thanks very much for your offer.  Pse contact me off list @
gbelcas@comcast.net.

Gary


From -3282155969113552539
X-Google-Thread: fc2a5,44aae470c998d154
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news1.google.com!news4.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!novia!news-xxxfer.readnews.com!news-out.readnews.com!
postnews3.readnews.com!not-for-mail
From: Wim Lewis <wiml@hhhh.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wideband receiver architectures
Date: Mon, 23 Jun 2008 04:20:48 +0000 (UTC)
Organization: HHHH Underhill
Message-ID: <g3n8b0$8ql$2@underhill.hhhh.org>
References: <rAA5k.186489$Gv.71007@en-nntp-07.dc1.easynews.com>
<4856d95d$0$14998$4f793bc4@news.tdc.fi> <aoC5k.60569$dq6.23414@en-
nntp-09.dc1.easynews.com>
X-Newsreader: trn 4.0-test76 (Apr 2, 2001)
Originator: wiml@underhill.hhhh.org (Wim Lewis)
Lines: 17
NNTP-Posting-Host: 561a45f0.news.zipcon.net
X-Trace: DXC=P=<2lAlal^]gRm3LG_>=ZPU>Dm5d6:E6]W8If`?
Nk0MSKUIV\6HP8XW_A>1gcoFWo]cB0oCEAS\FW
X-Complaints-To: abuse@zipcon.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:240

In article <aoC5k.60569$dq6.23414@en-nntp-09.dc1.easynews.com>,
Joel Koltner <zapwireDASHgroups@yahoo.com> wrote:
>one of the much lower frequency DDSes in conjunction with a mixer would
>probably work well -- although it just shifts the problem to how to get nice
>and pure, very wide range fixed frequencies to mix with.  (E.g., DDS does
>0-200MHz, so now you need just, say, a 200MHz+/-IF, 400MHz+/-IF, 600MHz+/-IF,
>etc. oscillators to mix with...)

From reading the occasional data sheet and appnote, I have the impression
that (as Tim Wescott says) they upconvert to a high IF, like 3 GHz,
and then convert down from there.

In that case they might have an LO that tunes from 1.7-3 GHz, which is
a much smaller range, proportionally, than 100kHz-1.3GHz.

-- 
   Wim Lewis <wiml@hhhh.org>, Seattle, WA, USA. PGP keyID 27F772C1


From 2855401432276036420
X-Google-Thread: fc2a5,44aae470c998d154
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!a1g2000hsb.googlegroups.com!not-for-
mail
From: Leon <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wideband receiver architectures
Date: Mon, 23 Jun 2008 07:38:02 -0700 (PDT)
Organization: http://groups.google.com
Lines: 45
```

```
Message-ID: <d2022687-ac07-4794-8e8a-c1b348f66262@a1g2000hsb.googlegroups.com>
References: <rAA5k.186489$Gv.71007@en-nntp-07.dc1.easynews.com>
     <4856d95d$0$14998$4f793bc4@news.tdc.fi>
NNTP-Posting-Host: 86.145.228.233
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1214231883 27863 127.0.0.1 (23 Jun 2008 14:38:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 23 Jun 2008 14:38:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a1g2000hsb.googlegroups.com; posting-host=86.145.228.233;
     posting-account=QWZLZQkAAADFmB_RJlmk3T-GvINRaZti
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.9)
     Gecko/2008052906 Firefox/3.0,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:241

On 16 Jun, 22:22, Postipoika <pikkupoika.postiljo...@hotmail.com>
wrote:
> Joel Koltner kirjoitti:
>
> > Just curious... does anyone know what sort of architecture you find in y=
our
> > typical HT or mobile "receives everything from 100kHz - 1.3GHz!" radio t=
o
> > generate such a vast range of frequencies while still keeping the prices=
 so
> > low (plenty are available for <$200, and I can't expect the LO makes up =
a
> > particularly large percentage of that total price)? =A0I would tend to l=
ean
> > towards something PLL-based given the typically channelized nature of
> > available frequencies, but a single PLL would still need a VCO with a hu=
ge
> > tuning range. =A0So... perhaps a pair of mixed PLLs, with one doing the =
fine
> > tuning and another the coarse tuning (having been multiplied up from a l=
ow
> > frequency)?
>
> > I attempted to decipher the schematic included with my Yaesu FTM-10R, bu=
t
> > everything is so tiny it was rather hopeless!
>
> > I don't suppose any of the reviews ever go through and sweep the LOs whi=
le
> > watching for the worst case spur conditions, do they?
>
> > ---Joel
>
> Solution for LO maybe is DDS.
> The practical solution of DDS is is extremely simple and cheap.
```

> Please google word "DDS"
>
> -- postipoika

My Yaesu FT-857D and FT-817ND transceivers use a PLL and DDS. The PLL cleans up the DDS output and the DDS gives the fine tuning.

The 857 receives up to 450 MHz, and uses a 68.33 MHz first IF.

Leon

From 6439674895961310395
X-Google-Thread: fc2a5,c4dae851b56b1401,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!34g2000hsh.googlegroups.com!not-for-mail
From: wa2rqy <rlucch2098@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FS: New Stancor PC8411 Power/Filiment Xformer
Date: Mon, 23 Jun 2008 07:43:32 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
Message-ID: <276f8b22-d241-4099-8ae8-b7ca34a7b8f9@34g2000hsh.googlegroups.com>
NNTP-Posting-Host: 68.56.207.208
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1214232213 28851 127.0.0.1 (23 Jun 2008 14:43:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 23 Jun 2008 14:43:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 34g2000hsh.googlegroups.com; posting-host=68.56.207.208;
    posting-account=teCHdAkAAADiA7mdK_5wT9MZS2G_a4v_
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.14)
    Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:242

Hi All;
I've been saving this for years but now realize that I'll never get to build a small CW Xmtr so its time to move it to someone who can put it to good use.
Stancor(Chicago Transformer Co.), Model PC8411, 4 hole, above the chassis mount, enclosed.
All wires are uncut & original length, some surface rust on the laminations, Bells are fine as is the yellow label.
Primary Voltage = 117V. 60 Cy.
Secondaries= 375-0-375 @ 150ma dc
Filiment= 5.0v @ 3A.
Filiment= 6.3v @ 4.5A
Weight shipped about 8.5lbs

```
Price is $60.00 with Priority mailing .
Will make a nice transmitter supply.
Tnx & 73.......
Rich WA2RQY/4


From -6796036782584647037
X-Google-Thread: fc2a5,feaa26acc8d5365f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.194.249.MISMATCH!news-out.readnews.com!transit3.readnews.com!panix!
panix2.panix.com!arthures
From: A <arthures@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Newsgroup Elimination
Date: Tue, 24 Jun 2008 16:39:43 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 20
Message-ID: <Pine.NEB.4.64.0806241638240.11735@panix2.panix.com>
References: <q6f6k.61015$Ni1.7141@trnddc01>
<CPU6k.8715$LL4.3671@bignews7.bellsouth.net>
 <3d6dnT6Cq6z-fcHVnZ2dneKdnZydnZ2d@pipex.net>
NNTP-Posting-Host: panix2.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1214339986 25816 166.84.1.2 (24 Jun 2008 20:39:46 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 24 Jun 2008 20:39:46 +0000 (UTC)
In-Reply-To: <3d6dnT6Cq6z-fcHVnZ2dneKdnZydnZ2d@pipex.net>
Xref: g2news1.google.com rec.radio.amateur.homebrew:243


Did any of you guys look at http://groups.google.com to see if what you
want is there? There are lots of ways to connect to NG servers that are
outside of your network (unless they disable nntp protocols).

On Sat, 21 Jun 2008, Highland Ham wrote:

> ken scharf wrote:
>> Right now I am using AT&T (bellsouth) DSL.  If they drop the news groups
>> and Comcast doesn't, I think bellsouth will lose both my phone and internet
>> business.  It's nice to have TWO providers of the same service competing
>> with each other!
> =======================================
> Agreed, this is rather OT ,but if you have a (A)DSL connection with a
> provider in the USA , do you have to 'sit out' a say 12 months contract
> before you can switch or can you switch at any time ?
>
> Frank   GM0CSZ / KN6WH
>
```

```
>


From 6524345316242172314
X-Google-Thread: fc2a5,feaa26acc8d5365f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Newsgroup Elimination
Date: 24 Jun 2008 22:47:37 GMT
Lines: 18
Message-ID: <slrng62uc9.15dt.bit-bucket@shell.config.com>
References: <q6f6k.61015$Ni1.7141@trnddc01>
<CPU6k.8715$LL4.3671@bignews7.bellsouth.net> <3d6dnT6Cq6z-
fcHVnZ2dneKdnZydnZ2d@pipex.net>
<Pine.NEB.4.64.0806241638240.11735@panix2.panix.com>
X-Trace: individual.net BZ2uhEmWvTf1oD2DkkV7mwJNko61gt1sP7U5YxhBjt9Q0ZTGRz
Cancel-Lock: sha1:QUO0/B8tq1YXrhXkB+JbFYrJPIc=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:244

On Tue, 24 Jun 2008 16:39:43 -0400, A wrote:
>
> Did any of you guys look at http://groups.google.com to see if what you
> want is there? There are lots of ways to connect to NG servers that are
> outside of your network (unless they disable nntp protocols).

Ya, but...  Post from Google and a Great Portion of the usenet
population will never see your postings:

     http://jonz.net/ng.htm

     http://improve-usenet.org/

Jonesy
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    *** Killfiling google posts: <http://jonz.net/ng.htm>


From 6988187819259652377
X-Google-Thread: fc2a5,eb3c08f283a3f44f,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!postnews.google.com!
59g2000hsb.googlegroups.com!not-for-mail
From: john@feith.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Group Delay Variation - How much is too much?
```

```
Date: Tue, 24 Jun 2008 20:46:47 -0700 (PDT)
Organization: http://groups.google.com
Lines: 24
Message-ID: <ee282ed6-28e6-4135-97a7-5d8f56d6eaa0@59g2000hsb.googlegroups.com>
NNTP-Posting-Host: 71.224.194.39
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1214365607 3505 127.0.0.1 (25 Jun 2008 03:46:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 25 Jun 2008 03:46:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 59g2000hsb.googlegroups.com; posting-host=71.224.194.39;
     posting-account=TTEBxgoAAABPLC9iUQeMnaxtgfPwN08g
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:245

For various transmission types, how much group delay variation can be
tolerated in
the receiver before it causes problems recovering the original
signal?  I realize that it
all depends ... I'm just interested in getting a rough idea.

For example, at what point is:

  1) SSB voice reception noticeably affected?

  2) the ability to receive images from weather satellites affected?

  3) various amateur radio modes such as PSK31, RTTY, and MFSK16
affected?

  4) HD Radio specs 600 ns as the max for the transmitter, what's the
max for the receiver?

I'm curious since the group delay variation of SAW filters available
for IF filtering seems
to vary widely.

-- john
john@feith.com


From -6291812126913727777
X-Google-Thread: fc2a5,eb3c08f283a3f44f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!34g2000hsf.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
```

Subject: Re: Group Delay Variation - How much is too much?
Date: Wed, 25 Jun 2008 06:45:21 -0700 (PDT)
Organization: http://groups.google.com
Lines: 67
Message-ID: <fa048135-72aa-4979-bdf0-5e98e4815d3a@34g2000hsf.googlegroups.com>
References: <ee282ed6-28e6-4135-97a7-5d8f56d6eaa0@59g2000hsb.googlegroups.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1214401522 12493 127.0.0.1 (25 Jun 2008 13:45:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 25 Jun 2008 13:45:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 34g2000hsf.googlegroups.com; posting-host=170.121.15.35;
posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:246

On Jun 24, 11:46=A0pm, j...@feith.com wrote:
> For various transmission types, how much group delay variation can be
> tolerated in
> the receiver before it causes problems recovering the original
> signal? =A0I realize that it
> all depends ... I'm just interested in getting a rough idea.
>
> For example, at what point is:
>
> =A0 1) SSB voice reception noticeably affected?
>
> =A0 2) the ability to receive images from weather satellites affected?
>
> =A0 3) various amateur radio modes such as PSK31, RTTY, and MFSK16
> affected?
>
> =A0 4) HD Radio specs 600 ns as the max for the transmitter, what's the
> max for the receiver?
>
> I'm curious since the group delay variation of SAW filters available
> for IF filtering seems
> to vary widely.

I have been playing with homebrew crystal filters (following W7ZOI and
Bill Carver/K6OLG) for CW, as well as audio filters, and can tell you
that on CW the difference between a super-sharp-in-frequency
Chesbyshev filter (typical in ham equipment for a long time now) and a
more constant-delay (e.g. Gaussian to 6dB or 12dB, or equiripple
linear phase) filter is like night and day.

My impressions are done "to my ears", not to a spectrum analyzer.

The super sharp in frequency Chesbyshev filters have horrible horrible ringing especially on say 40M or 80M in the summer with the QRN. I can hardly listen for a few minutes without getting disgusted. BUT... they do have a real advantage during say a contest when there's competing signals every few hundred Hz.

At the other extreme the constant-delay filters sound remarkably clear and transparent. They do not have such a sharp stopband, but my ear makes up for that most of the time. Ringing from summertime band noise is not nearly so tiring.

Most of the filter simulation programs (AADE, SPICE, NatSemi's cool new WebBench filter tools, etc.) let you look at not just frequency response but also phase response and (maybe most importantly for summertime QRN) impulse response. Having run the simulations and listened with my ears to my experiments this summer, I cannot emphasize how much more enjoyable it is to use a Gaussian-to-6dB or equiripple linear phase filter in CW.

Often when the bands are not crowded but there is QRN, I far far prefer a simple two-pole crystal filter designed for CW in the first place (e.g. my Heath HW-16) to any fancy-pants 8-pole or 12-pole modern filters in my new rigs.

I notice you ask about a lot of digital modes but not CW. My ears have been listening to CW for 30-some years now and I can do a lot of processing in my brain. But what my brain cannot remove is horrible filter ringing. I don't know how those other digital modes stack up... maybe computers are better at removing horrible ringing than my brain.

I don't think I have a "golden ear" or any other audiophile quality. In fact I'm pretty sure my ears are less good than they were when I was a kid doing CW.

Tim N3QE

```
From -6471668588508927649
X-Google-Thread: fc2a5,eb3c08f283a3f44f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
j22g2000hsf.googlegroups.com!not-for-mail
From: john@feith.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Group Delay Variation - How much is too much?
Date: Wed, 25 Jun 2008 11:14:03 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <9533f88d-bada-4f50-8f40-a78b2cf08c82@j22g2000hsf.googlegroups.com>
References: <ee282ed6-28e6-4135-97a7-5d8f56d6eaa0@59g2000hsb.googlegroups.com>
     <fa048135-72aa-4979-bdf0-5e98e4815d3a@34g2000hsf.googlegroups.com>
NNTP-Posting-Host: 71.224.194.39
```

Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1214417643 21637 127.0.0.1 (25 Jun 2008 18:14:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 25 Jun 2008 18:14:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j22g2000hsf.googlegroups.com; posting-host=71.224.194.39;
     posting-account=TTEBxgoAAABPLC9iUQeMnaxtgfPwN08g
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:247

On Jun 25, 9:45=A0am, Tim Shoppa <sho...@trailing-edge.com> wrote:
> I have been playing with homebrew crystal filters (following W7ZOI and
> Bill Carver/K6OLG) for CW, as well as audio filters, and can tell you
> that on CW the difference between a super-sharp-in-frequency
> Chesbyshev filter (typical in ham equipment for a long time now) and a
> more constant-delay (e.g. Gaussian to 6dB or 12dB, or equiripple
> linear phase) filter is like night and day.

You wouldn't happen to know the group delay variance
of the filters you mentioned? Rough values are okay.

> I notice you ask about a lot of digital modes but not CW. My ears have
> been listening to CW for 30-some years now and I can do a lot of
> processing in my brain. But what my brain cannot remove is horrible
> filter ringing. I don't know how those other digital modes stack up...
> maybe computers are better at removing horrible ringing than my brain.

I believe that in theory if the exact group delay profile is known,
then
a digital receiver can perform a certain amount of equalization. What
I'm curious about is how much varience can be introduced by the
filters in a receiver for various transmission types without needing
to equalize.

-- John
john@feith.com

From 537068144713167060
X-Google-Thread: fc2a5,eb3c08f283a3f44f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!r66g2000hsg.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Group Delay Variation - How much is too much?
Date: Wed, 25 Jun 2008 13:29:50 -0700 (PDT)
Organization: http://groups.google.com

```
Lines: 27
Message-ID: <5ee20d8e-d608-4e77-935e-3cd38dd2896d@r66g2000hsg.googlegroups.com>
References: <ee282ed6-28e6-4135-97a7-5d8f56d6eaa0@59g2000hsb.googlegroups.com>
     <fa048135-72aa-4979-bdf0-5e98e4815d3a@34g2000hsf.googlegroups.com>
     <9533f88d-bada-4f50-8f40-a78b2cf08c82@j22g2000hsf.googlegroups.com>
NNTP-Posting-Host: 170.121.15.44
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1214425791 12655 127.0.0.1 (25 Jun 2008 20:29:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 25 Jun 2008 20:29:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r66g2000hsg.googlegroups.com; posting-host=170.121.15.44;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:248
```

On Jun 25, 2:14=A0pm, j...@feith.com wrote:

> On Jun 25, 9:45=A0am, Tim Shoppa <sho...@trailing-edge.com> wrote:
>
> > I have been playing with homebrew crystal filters (following W7ZOI and
> > Bill Carver/K6OLG) for CW, as well as audio filters, and can tell you
> > that on CW the difference between a super-sharp-in-frequency
> > Chesbyshev filter (typical in ham equipment for a long time now) and a
> > more constant-delay (e.g. Gaussian to 6dB or 12dB, or equiripple
> > linear phase) filter is like night and day.
>
> You wouldn't happen to know the group delay variance
> of the filters you mentioned? =A0Rough values are okay.

I haven't actually measured group delay but I'm sure that what I hear is group delay.

If you look at published group delay graphs for commercial Chesbyshev filters, a 500 Hz 8th-order crystal filter has a delay around 2ms in the middle of the passband, but within 100 Hz of the edge of the passband the delay peaks up enormously to 4ms and then back down again over the very steep skirt.

Maybe you can turn the 2 ms variation into some inter-symbol/intra-symbol limit for some digital modes. It rings like the dickens when hit with QRN, that's for sure!

Tim N3QE.

```
From 1388211589733396997
X-Google-Thread: fc2a5,eb3c08f283a3f44f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!
nx02.iad01.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!tmp-post01.iad!
news.highwinds-media.com!not-for-mail
From: "K" <K@spam.net>
Newsgroups: rec.radio.amateur.homebrew
References: <ee282ed6-28e6-4135-97a7-5d8f56d6eaa0@59g2000hsb.googlegroups.com>
<fa048135-72aa-4979-bdf0-5e98e4815d3a@34g2000hsf.googlegroups.com> <9533f88d-
bada-4f50-8f40-a78b2cf08c82@j22g2000hsf.googlegroups.com> <5ee20d8e-
d608-4e77-935e-3cd38dd2896d@r66g2000hsg.googlegroups.com>
Subject: Re: Group Delay Variation - How much is too much?
Date: Wed, 25 Jun 2008 14:14:40 -0700
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5512
X-RFC2646: Format=Flowed; Original
Lines: 3
Message-ID: <4862b545$0$18107$9a6e19ea@unlimited.newshosting.com>
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
NNTP-Posting-Host: 98.150.29.193
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:249
X-Original-Bytes: 1150

test




From 8255776429686337210
X-Google-Thread: fc2a5,c8821f417ae465fe,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!postnews.google.com!j22g2000hsf.googlegroups.com!not-for-
mail
From: legalmind <movingviolations@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Call friends and relatives in PA and warn them!
Date: Wed, 25 Jun 2008 14:24:51 -0700 (PDT)
Organization: http://groups.google.com
Lines: 79
Message-ID: <0b348cd1-b814-4885-8cc7-1421abc51653@j22g2000hsf.googlegroups.com>
NNTP-Posting-Host: 71.236.211.7
Mime-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1214429092 30317 127.0.0.1 (25 Jun 2008 21:24:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 25 Jun 2008 21:24:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j22g2000hsf.googlegroups.com; posting-host=71.236.211.7;
```

```
     posting-account=yEK4vgoAAAAND_jdsSO_-Zr44o2h82G1
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:250
```

Pa. debunks rumors of 'speeding ticket frenzy'
Philadelphia Inquirer - Philadelphia,PA,USA
"Starting today, Pennsylvania will launch a 30-day speeding ticket frenzy. The state estimates that 9 million dollars will be generated in speeding tickets. ...

Pa. debunks rumors of =91speeding ticket frenzy=92
By Peter Mucha

INQUIRER STAFF WRITER

An e-mail making the rounds warning of a Pennsylvania crackdown on speeding is a mix of fact and fancy, according to state police.
The message sounds an ominous alarm:

"BULLETIN! BULLETIN! BULLETIN . . .

"Starting today, Pennsylvania will launch a 30-day speeding ticket frenzy. The state estimates that 9 million dollars will be generated in speeding tickets."

Judging from the date of the e-mail, "today" meant last Thursday.

"Look out for Penn dot trucks parked along the road or appearing behind you pacing you," the e-mail warns.

"It could be a Trooper driving the truck, it is called 'Operation Yellow Jacket' and will be off and on all summer."

Better keep that cruise control to 2 m.p.h. over the limit to be safe, the e-mail advises.

Actually, this ticket-frenzy e-mail is nothing new.

In April, state police issued a press release advising that it's all a hoax.

"The misinformation in this e-mail is an urban legend that originated in New Jersey in May 2005," the release stated. "Since then, the hoax has targeted police in several other states."

Yes, troopers give tickets to speeders, said Sgt. Edward Murphy, station commander of the Dublin Barracks. But no, there's no special crackdown on speeding this summer, he said.

Monday was, however, the start of a two-week campaign called Smooth Operator in Pennsylvania and New Jersey.

The program, which targets aggressive drivers, has been conducted periodically in Pennsylvania since 2006.

But the e-mail is correct about one thing: Operation Yellow Jacket does exist, Murphy said.

"It's a statewide program," he said. "It's the use of PennDot vehicles to run radar from."

The vehicles are generally parked at the side of the road - not necessarily in work zones - but are not used to pace motorists, he said.

The program's purpose is not just to catch speeders but also to remind motorists to be careful around any work crews and emergency vehicles.

"They should be slowing down when there's anything on the side of the road," Murphy said.

Under the state's Steer Clear Law, motorists are required, if reasonably possible, to move out of the lane nearest to construction crews, police making traffic stops, or tow trucks assisting disabled vehicles.

Anyone who receives the hoax e-mail should delete it, state police said in its April press release.

"The Department suggests that anyone who receives such an e-mail to simply delete it," the April press release continued. ". . . The Department never issues traffic citations as a way of raising funds for the state."

```
From 4991186383325845200
X-Google-Thread: fc2a5,feaa26acc8d5365f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.249.MISMATCH!transit3.readnews.com!news-xxxfer.readnews.com!news-
out.readnews.com!transit4.readnews.com!panix!panix3.panix.com!arthures
From: A <arthures@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Newsgroup Elimination
Date: Wed, 25 Jun 2008 23:57:59 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 38
Message-ID: <Pine.NEB.4.64.0806252352340.15683@panix3.panix.com>
References: <q6f6k.61015$Ni1.7141@trnddc01>
<CPU6k.8715$LL4.3671@bignews7.bellsouth.net>
 <3d6dnT6Cq6z-fcHVnZ2dneKdnZydnZ2d@pipex.net>
<Pine.NEB.4.64.0806241638240.11735@panix2.panix.com>
```

 <slrng62uc9.15dt.bit-bucket@shell.config.com>
NNTP-Posting-Host: panix3.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1214452680 2193 166.84.1.3 (26 Jun 2008 03:58:00 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 26 Jun 2008 03:58:00 +0000 (UTC)
In-Reply-To: <slrng62uc9.15dt.bit-bucket@shell.config.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:251

On Tue, 24 Jun 2008, Allodoxaphobia wrote:

> On Tue, 24 Jun 2008 16:39:43 -0400, A wrote:
>>
>> Did any of you guys look at http://groups.google.com to see if what you
>> want is there? There are lots of ways to connect to NG servers that are
>> outside of your network (unless they disable nntp protocols).
>
> Ya, but... Post from Google and a Great Portion of the usenet
> population will never see your postings:

I have access to three non-Google ISPs and in recent months, the posts
have been getting out to all of them just as fast as I can log onto them
by telnet and check for myself. They have improved over, say, a year ago.

Whether your post gets "out" far onto the net depends at least to some
degree on where on the net your ISP is located and what kind of traffic
flows there. I've had experience with about a dozen UNIX shell account
ISPs over the last 15 years and in the past there were quite a few that
did _not_ have good connectivity with other ISPs through the nntp
protocol. I'm not overly happy with Google for NG access, but if anyone is
unhappy with their own ISP's NG server (they can subscribe or block
whatever NGs they feel like) then certainly they should try Google. And,
you can even use Google (and other "portals") to find other NG accesses.

>   http://jonz.net/ng.htm
>
>   http://improve-usenet.org/
>
> Jonesy
> --
> Marvin L Jones | jonz | W3DHJ | linux
>   38.24N 104.55W | @ config.com | Jonesy | OS/2
>   *** Killfiling google posts: <http://jonz.net/ng.htm>
>

From 6904651427196823543
X-Google-Thread: fc2a5,feaa26acc8d5365f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!news.glorb.com!
news.acm.uiuc.edu!news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Newsgroup Elimination
Date: Thu, 26 Jun 2008 00:01:43 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 44
Sender: et472@72.0.192.101
Message-ID: <Pine.LNX.4.64.0806252355280.8467@darkstar.example.org>
References: <q6f6k.61015$Ni1.7141@trnddc01>
<CPU6k.8715$LL4.3671@bignews7.bellsouth.net>
 <3d6dnT6Cq6z-fcHVnZ2dneKdnZydnZ2d@pipex.net>
<Pine.NEB.4.64.0806241638240.11735@panix2.panix.com>
 <slrng62uc9.15dt.bit-bucket@shell.config.com>
<Pine.NEB.4.64.0806252352340.15683@panix3.panix.com>
NNTP-Posting-Host: 72.0.192.101
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1214453187 27707 72.0.192.101 (26 Jun 2008 04:06:27 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 26 Jun 2008 04:06:27 GMT
In-Reply-To: <Pine.NEB.4.64.0806252352340.15683@panix3.panix.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:252

On Wed, 25 Jun 2008, A wrote:

>
>
> On Tue, 24 Jun 2008, Allodoxaphobia wrote:
>
>> On Tue, 24 Jun 2008 16:39:43 -0400, A wrote:
>>>
>>> Did any of you guys look at http://groups.google.com to see if what you
>>> want is there? There are lots of ways to connect to NG servers that are
>>> outside of your network (unless they disable nntp protocols).
>>
>> Ya, but...  Post from Google and a Great Portion of the usenet
>> population will never see your postings:
>
> I have access to three non-Google ISPs and in recent months, the posts have
> been getting out to all of them just as fast as I can log onto them by telnet
> and check for myself. They have improved over, say, a year ago.
>
You miss the point, though I'm tired of seeing all this off-topic
discussion in every newsgroup as the clueless post about it rather
than know what's happening and finding the right place to post.

He's saying that many will filter out posts from google.  Too much
spam, but too much cluelessness.  People posting from google without
any awareness of where they are.  People posting from google without
```

quoting what they are replying to. People posting from google and being clueless about how others see the newsgroup, so they think doing things like replying to spam with an empty message but a different subject header will "fix things"; the rest of the world sees an empty message that requires effort to figure out what the post is about since we don't see it all on one webpage. Google has made it too easy for people to post to Usenet, so they can post without giving any thought to what already exists. They too often think a newsgroup is a hangout, where anything goes so long as everyone shares the common interest of the newsgroup. SO rather than find a newsgroup where a post is on-topic, they post where their "buddies" are.

With each little bit, the newsgroups degrade just a little bit more. Drive out the ones who know what they are doing, and then the clueless can do whatever they like.

Michael VE2BVW

From 208061560091422926
X-Google-Thread: fc2a5,eb3c08f283a3f44f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!eweka.nl!lightspeed.eweka.nl!feeder.erje.net!feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Group Delay Variation - How much is too much?
Message-ID: <ctf664hiup02n43d6nfahjgnmh4drun0i8@4ax.com>
References: <ee282ed6-28e6-4135-97a7-5d8f56d6eaa0@59g2000hsb.googlegroups.com> <fa048135-72aa-4979-bdf0-5e98e4815d3a@34g2000hsf.googlegroups.com> <9533f88d-bada-4f50-8f40-a78b2cf08c82@j22g2000hsf.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 44
Date: Thu, 26 Jun 2008 10:32:03 +0300
NNTP-Posting-Host: 85.77.255.144
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1214465518 85.77.255.144 (Thu, 26 Jun 2008 10:31:58 EEST)
NNTP-Posting-Date: Thu, 26 Jun 2008 10:31:58 EEST
Organization: Saunalahti Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:253

On Wed, 25 Jun 2008 11:14:03 -0700 (PDT), john@feith.com wrote:

>On Jun 25, 9:45�am, Tim Shoppa <sho...@trailing-edge.com> wrote:
>> I have been playing with homebrew crystal filters (following W7ZOI and
>> Bill Carver/K6OLG) for CW, as well as audio filters, and can tell you

>> that on CW the difference between a super-sharp-in-frequency
>> Chesbyshev filter (typical in ham equipment for a long time now) and a
>> more constant-delay (e.g. Gaussian to 6dB or 12dB, or equiripple
>> linear phase) filter is like night and day.
>
>You wouldn't happen to know the group delay variance
>of the filters you mentioned? Rough values are okay.
>
>> I notice you ask about a lot of digital modes but not CW. My ears have
>> been listening to CW for 30-some years now and I can do a lot of
>> processing in my brain. But what my brain cannot remove is horrible
>> filter ringing. I don't know how those other digital modes stack up...
>> maybe computers are better at removing horrible ringing than my brain.
>
>I believe that in theory if the exact group delay profile is known,
>then
>a digital receiver can perform a certain amount of equalization. What
>I'm curious about is how much varience can be introduced by the
>filters in a receiver for various transmission types without needing
>to equalize.

Excuse my ignorance, but why on earth do you do some crude analog
filtering and then continue with digital filtering, in which you have
much more alternatives ?

The only reason that I can think about using sharp IF crystal filters
is that the dynamic range of the following stages (product detector
and ADC) is not sufficient.

In a typical general coverage up converting receiver, the roofing
filter will define the bandwidth the ADC must handle. Also some gain
control (not necessary automatic) is needed to set the band noise well
below one LSB (LF/MF vs VHF/UHF and antenna efficiency on LF).

Even when designing an add-on unit for audio processing, why would
anyone use the receiver CW filters apart from dynamic range issues ?

Paul OH3LWR

From -4190168147632297798
X-Google-Thread: fc2a5,eb3c08f283a3f44f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!m3g2000hsc.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Group Delay Variation - How much is too much?
Date: Thu, 26 Jun 2008 05:25:52 -0700 (PDT)
Organization: http://groups.google.com
Lines: 64

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Message-ID: <a875379a-2387-4083-bac2-d8956cf66372@m3g2000hsc.googlegroups.com>
References: <ee282ed6-28e6-4135-97a7-5d8f56d6eaa0@59g2000hsb.googlegroups.com>
     <fa048135-72aa-4979-bdf0-5e98e4815d3a@34g2000hsf.googlegroups.com>
     <9533f88d-bada-4f50-8f40-a78b2cf08c82@j22g2000hsf.googlegroups.com>
     <ctf664hiup02n43d6nfahjgnmh4drun0i8@4ax.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1214483153 12897 127.0.0.1 (26 Jun 2008 12:25:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Jun 2008 12:25:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m3g2000hsc.googlegroups.com; posting-host=170.121.15.35;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:254

On Jun 26, 3:32=A0am, Paul Keinanen <keina...@sci.fi> wrote:
> On Wed, 25 Jun 2008 11:14:03 -0700 (PDT), j...@feith.com wrote:
> >On Jun 25, 9:45=A0am, Tim Shoppa <sho...@trailing-edge.com> wrote:
> >> I have been playing with homebrew crystal filters (following W7ZOI and
> >> Bill Carver/K6OLG) for CW, as well as audio filters, and can tell you
> >> that on CW the difference between a super-sharp-in-frequency
> >> Chesbyshev filter (typical in ham equipment for a long time now) and a
> >> more constant-delay (e.g. Gaussian to 6dB or 12dB, or equiripple
> >> linear phase) filter is like night and day.
>
> >You wouldn't happen to know the group delay variance
> >of the filters you mentioned? =A0Rough values are okay.
>
> >> I notice you ask about a lot of digital modes but not CW. My ears have
> >> been listening to CW for 30-some years now and I can do a lot of
> >> processing in my brain. But what my brain cannot remove is horrible
> >> filter ringing. I don't know how those other digital modes stack up...
> >> maybe computers are better at removing horrible ringing than my brain.
>
> >I believe that in theory if the exact group delay profile is known,
> >then
> >a digital receiver can perform a certain amount of equalization. =A0What
> >I'm curious about is how much varience can be introduced by the
> >filters in a receiver for various transmission types without needing
> >to equalize.
>
> Excuse my ignorance, but why on earth do you do some crude analog
> filtering and then continue with digital filtering, in which you have
> much more alternatives ?
>
> The only reason that I can think about using sharp IF crystal filters
> is that the dynamic range of the following stages (product detector
> and ADC) is not sufficient.
```

>
> In a typical general coverage up converting receiver, the roofing
> filter will define the bandwidth the ADC must handle. Also some gain
> control (not necessary automatic) is needed to set the band noise well
> below one LSB (LF/MF vs VHF/UHF and antenna efficiency on LF).
>
> Even when designing an add-on unit for audio processing, why would
> anyone use the receiver CW filters apart from dynamic range issues ?

I kind-of have the same questions too. For a homebrew project, having all the software-designed-radio complexity in addition to the tight-analog-filtering-from-DC-to-daylight complexity seems to just... make everything too complicated and not fun anymore.

But the best ham receivers couple impressive front ends with effectively tight roofing filters with SDR aspects effectively (and quite usably) and I can see why someone would want to try their hands at their own competitive design. But, wow, it's a lot of effort. And a lot of ham receivers - especially the first and second generation designs - combined all these technologies into radios that are actually painfully complicated to use. (When the QST review starts contrasting menu option 73 submode 4 with menu option 105 submode 13, that's a real turn-off to me. At the same time, other younger operators just love that sort of complexity!)

On the other hand, a truly simple analog front end (e.g. Softrock) combined with a computer is a hell of a lot of fun. You spend a lot more time looking at a computer screen and less listening but that's what some like.

Tim N3QE.

From 5052271893417430279
X-Google-Thread: fc2a5,eb3c08f283a3f44f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,CP1252
Path: g2news1.google.com!postnews.google.com!x41g2000hsb.googlegroups.com!not-for-mail
From: john@feith.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Group Delay Variation - How much is too much?
Date: Thu, 26 Jun 2008 08:34:14 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
Message-ID: <3a096d3a-cce0-4b95-84f2-bc795c1629ce@x41g2000hsb.googlegroups.com>
References: <ee282ed6-28e6-4135-97a7-5d8f56d6eaa0@59g2000hsb.googlegroups.com>
     <fa048135-72aa-4979-bdf0-5e98e4815d3a@34g2000hsf.googlegroups.com>
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NNTP-Posting-Date: Thu, 26 Jun 2008 15:34:14 +0000 (UTC)
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:255

On Jun 26, 3:32=A0am, Paul Keinanen <keina...@sci.fi> wrote:
> Excuse my ignorance, but why on earth do you do some crude analog
> filtering and then continue with digital filtering, in which you have
> much more alternatives ?

To undersample the signal it must be bandwidth limited which means
some
type of analog filtering.  As long as filtering is necessary, it might
as well be a narrow as the widest signal of interest and as sharp as
possible so long as it's convenient and doesn't distort the signal too
much.

> why would anyone use the receiver CW filters

Probably a bit narrower than what I had in mind =85  I'm currently
looking
at 500 KHz wide SAW filters.



From -4586789008475824831
X-Google-Thread: fc2a5,eb3c08f283a3f44f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news3.google.com!
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news.usenetserver.com!news-in-02.newsfeed.easynews.com!core-easynews!easynews.com!
easynews!en-nntp-02.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <ee282ed6-28e6-4135-97a7-5d8f56d6eaa0@59g2000hsb.googlegroups.com>
<fa048135-72aa-4979-bdf0-5e98e4815d3a@34g2000hsf.googlegroups.com> <9533f88d-
bada-4f50-8f40-a78b2cf08c82@j22g2000hsf.googlegroups.com>
<ctf664hiup02n43d6nfahjgnmh4drun0i8@4ax.com> <3a096d3a-cce0-4b95-84f2-
bc795c1629ce@x41g2000hsb.googlegroups.com>
Subject: Re: Group Delay Variation - How much is too much?
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5512
Message-ID: <OEP8k.212126$Tj3.62761@en-nntp-02.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Thu, 26 Jun 2008 09:41:11 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:256

<john@feith.com> wrote in message
news:3a096d3a-cce0-4b95-84f2-bc795c1629ce@x41g2000hsb.googlegroups.com...
"As long as filtering is necessary, it might as well be a narrow as the widest signal of interest and as sharp as possible so long as it's convenient and doesn't distort the signal too much."

"As sharp as possible" and "doesn't distort the signal too much" are somewhat conflicting goals: In general, the steeper the skirts of a filter, the more group delay variation you get there at the edges (hence, Butterworth has less group delay variation than Chebyshev which has less than Elliptic). Now, you can certainly account for this by widening the passband a bit and then perhaps using even steeper skirts, or you can compensate for it digitally if you can characterize it, but the main point here is that it does get rather complex -- hence the trend to have somewhat "looser" analog filters (and thus low group delay variation) and then do whatever you want digitally.

From 450637396258338258
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!i76g2000hsf.googlegroups.com!not-for-mail
From: john@feith.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Group Delay Variation - How much is too much?
Date: Thu, 26 Jun 2008 11:04:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 31
Message-ID: <a998db40-fe2b-4b9a-965c-442c7262b569@i76g2000hsf.googlegroups.com>
References: <ee282ed6-28e6-4135-97a7-5d8f56d6eaa0@59g2000hsb.googlegroups.com>
     <fa048135-72aa-4979-bdf0-5e98e4815d3a@34g2000hsf.googlegroups.com>
     <9533f88d-bada-4f50-8f40-a78b2cf08c82@j22g2000hsf.googlegroups.com>
     <ctf664hiup02n43d6nfahjgnmh4drun0i8@4ax.com> <3a096d3a-cce0-4b95-84f2-bc795c1629ce@x41g2000hsb.googlegroups.com>
     <OEP8k.212126$Tj3.62761@en-nntp-02.dc1.easynews.com>
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Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
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NNTP-Posting-Date: Thu, 26 Jun 2008 18:04:56 +0000 (UTC)
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Injection-Info: i76g2000hsf.googlegroups.com; posting-host=71.224.194.39;
     posting-account=TTEBxgoAAABPLC9iUQeMnaxtgfPwN08g
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:257
```

On Jun 26, 12:41=A0pm, "Joel Koltner" <zapwireDASHgro...@yahoo.com>
wrote:

> "As sharp as possible" and "doesn't distort the signal too much" are some=
what
> conflicting goals:

Understood, part of the point of this thread which was to get an idea of how much group delay variance is acceptable for various types of transmissions without greatly impacting the quality of the received signal.

> hence the trend to have somewhat "looser" analog filters (and thus low
> group delay variation) and then do whatever you want digitally.

Also understood, it's all about balance. Going narrow impacts group delay variance which distorts signal, going wide impacts dynamic range.

Which still leaves me with the notion that you want to go as tight as reasonably possible and no tighter. With that in mind it sounds like what we've determined so far with regards to IF filtering is:

```
  transmission type             receiver group delay variance
  -------------------------------------------------------------
    CW                          should be less than 2 ms
```

this is based on Tim Shoppa's posts which were to the point.
Does anyone else have data to contribute?

-- John
john@feith.com

```
From -3245300432142751391
X-Google-Thread: fc2a5,eb3c08f283a3f44f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Path: g2news1.google.com!postnews.google.com!56g2000hsm.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Group Delay Variation - How much is too much?
Date: Thu, 26 Jun 2008 11:40:04 -0700 (PDT)
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Organization: http://groups.google.com
Lines: 22
Message-ID: <680ae141-48ba-4ece-949b-7fcf706d47cc@56g2000hsm.googlegroups.com>
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Content-Transfer-Encoding: quoted-printable
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NNTP-Posting-Date: Thu, 26 Jun 2008 18:40:04 +0000 (UTC)
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:258
```

On Jun 26, 11:34=A0am, j...@feith.com wrote:

> On Jun 26, 3:32=A0am, Paul Keinanen <keina...@sci.fi> wrote:
> > why would anyone use the receiver CW filters
>
> Probably a bit narrower than what I had in mind =85 =A0I'm currently
> looking
> at 500 KHz wide SAW filters.

As a rough guesstimate, the group delay in a 500kHz wide filter will be 1/500,000 secs, or 2.0 microseconds. Now, depending on shoulder steepness the change in group delay might get to 2, 3, maybe even 5 times 2.0 microseconds. But even at 20 microseconds I don't think any of the HF digital modes you mentioned would be impacted.

Most of my comments regarding group delay and ringing in filters were oriented towards narrowish (few kHz or less) filters.

Wow, a HF receiver with a 500kHz SAW filter after the mixer. I don't have a clue what you're doing! I thought we were talking about HF receivers for common bandwidths!

Tim N3QE

```
From -959022746598151557
X-Google-Thread: fc2a5,eb3c08f283a3f44f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!z66g2000hsc.googlegroups.com!not-for-
mail
```

From: john@feith.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Group Delay Variation - How much is too much?
Date: Thu, 26 Jun 2008 12:55:06 -0700 (PDT)
Organization: http://groups.google.com
Lines: 21
Message-ID: <6f168058-5c26-4bcb-b39c-f011ae46283c@z66g2000hsc.googlegroups.com>
References: <ee282ed6-28e6-4135-97a7-5d8f56d6eaa0@59g2000hsb.googlegroups.com>
     <fa048135-72aa-4979-bdf0-5e98e4815d3a@34g2000hsf.googlegroups.com>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:259

On Jun 26, 2:40=A0pm, Tim Shoppa <sho...@trailing-edge.com> wrote:
> But even at 20 microseconds I don't think any of the HF digital modes you
> mentioned would be impacted.

Thanks ... that's the type of information I was curious about.

> Wow, a HF receiver with a 500kHz SAW filter after the mixer. I don't
> have a clue what you're doing!

I'm "playing" with something resembling 0 - 175 Mhz up converted to
208 Mhz
filtered using a GSM SAW filter sampled at the first IF using a 25
Msps 16 bit
ADC. The silly width is because I'm interested in handling broadcast
FM
including RDS (among other things). I'm also interested in receiving
satellite
images which in some cases has a bandwidth of 150 Khz.

-- John
john@feith.com

From 8508136082440672150
X-Google-Thread: fc2a5,eb3c08f283a3f44f

X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
e39g2000hsf.googlegroups.com!not-for-mail
From: john@feith.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Group Delay Variation - How much is too much?
Date: Thu, 26 Jun 2008 13:10:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 11
Message-ID: <c02397e6-7584-4333-8d76-b82fa8d5b533@e39g2000hsf.googlegroups.com>
References: <ee282ed6-28e6-4135-97a7-5d8f56d6eaa0@59g2000hsb.googlegroups.com>
<fa048135-72aa-4979-bdf0-5e98e4815d3a@34g2000hsf.googlegroups.com>
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X-Trace: posting.google.com 1214511045 28526 127.0.0.1 (26 Jun 2008 20:10:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Jun 2008 20:10:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e39g2000hsf.googlegroups.com; posting-host=71.224.194.39;
posting-account=TTEBxgoAAABPLC9iUQeMnaxtgfPwN08g
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:260

As another random datapoint there's a
MetOp document regarding the LRPT satellite
transmissions which says:

Frequency range (kHz)	Group delay variation (=ECs)
[0-40]	+/- 2
[40-60]	+/- 5

-- John
john@feith.com

From -8654896661306248626
X-Google-Thread: fc2a5,eb3c08f283a3f44f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
k37g2000hsf.googlegroups.com!not-for-mail
From: john@feith.com
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Re: Group Delay Variation - How much is too much?
Date: Thu, 26 Jun 2008 13:16:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <d9604ea2-58d7-4958-8521-49b84a64bc4d@k37g2000hsf.googlegroups.com>
References: <ee282ed6-28e6-4135-97a7-5d8f56d6eaa0@59g2000hsb.googlegroups.com>
     <fa048135-72aa-4979-bdf0-5e98e4815d3a@34g2000hsf.googlegroups.com>
     <9533f88d-bada-4f50-8f40-a78b2cf08c82@j22g2000hsf.googlegroups.com>
     <ctf664hiup02n43d6nfahjgnmh4drun0i8@4ax.com> <3a096d3a-cce0-4b95-84f2-
bc795c1629ce@x41g2000hsb.googlegroups.com>
     <680ae141-48ba-4ece-949b-7fcf706d47cc@56g2000hsm.googlegroups.com>
     <c02397e6-7584-4333-8d76-b82fa8d5b533@e39g2000hsf.googlegroups.com>
NNTP-Posting-Host: 71.224.194.39
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1214511370 14837 127.0.0.1 (26 Jun 2008 20:16:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Jun 2008 20:16:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k37g2000hsf.googlegroups.com; posting-host=71.224.194.39;
     posting-account=TTEBxgoAAABPLC9iUQeMnaxtgfPwN08g
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:261

[Let's try this again ... that should be microseconds (us) not (is)]

As another random datapoint there's a
MetOp document regarding the LRPT satellite
transmissions which says:

Frequency range =A0 =A0 =A0 Group delay
(kHz) =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0variation (us)
[0-40] =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0+/- 2
[40-60] =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0+/- 5

-- John
j...@feith.com




From 2861271848506024725
X-Google-Thread: fc2a5,eb3c08f283a3f44f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news4.google.com!
out04b.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!
news.usenetserver.com!news-in-02.newsfeed.easynews.com!core-easynews!easynews.com!
easynews!en-nntp-08.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
```

References: <ee282ed6-28e6-4135-97a7-5d8f56d6eaa0@59g2000hsb.googlegroups.com>
<fa048135-72aa-4979-bdf0-5e98e4815d3a@34g2000hsf.googlegroups.com> <9533f88d-
bada-4f50-8f40-a78b2cf08c82@j22g2000hsf.googlegroups.com>
<ctf664hiup02n43d6nfahjgnmh4drun0i8@4ax.com> <3a096d3a-cce0-4b95-84f2-
bc795c1629ce@x41g2000hsb.googlegroups.com> <OEP8k.212126$Tj3.62761@en-
nntp-02.dc1.easynews.com> <a998db40-
fe2b-4b9a-965c-442c7262b569@i76g2000hsf.googlegroups.com>
Subject: Re: Group Delay Variation - How much is too much?
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5512
Message-ID: <xlT8k.148177$Uf4.2008@en-nntp-08.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Thu, 26 Jun 2008 13:53:47 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:262

<john@feith.com> wrote in message
news:a998db40-fe2b-4b9a-965c-442c7262b569@i76g2000hsf.googlegroups.com...
"Does anyone else have data to contribute?"

I don't, and I suspect that no one has done a comphrehensive survey of various popular (to hams) modulation formats and their sensitivity to group delay variations. Doing so would definitely be valuable -- it'd be a shoe-in for a QST or QEX article.

From 8888902333791410193
X-Google-Thread: fc2a5,eb3c08f283a3f44f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!v1g2000pra.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Group Delay Variation - How much is too much?
Date: Thu, 26 Jun 2008 14:45:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 88
Message-ID: <4daba4e1-a3a3-4db1-8137-930e1d37efa0@v1g2000pra.googlegroups.com>
References: <ee282ed6-28e6-4135-97a7-5d8f56d6eaa0@59g2000hsb.googlegroups.com>
     <fa048135-72aa-4979-bdf0-5e98e4815d3a@34g2000hsf.googlegroups.com>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

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X-Trace: posting.google.com 1214516726 12324 127.0.0.1 (26 Jun 2008 21:45:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Jun 2008 21:45:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v1g2000pra.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:263

On Jun 25, 6:45 am, Tim Shoppa <sho...@trailing-edge.com> wrote:
> On Jun 24, 11:46 pm, j...@feith.com wrote:
>
>
>
> > For various transmission types, how much group delay variation can be
> > tolerated in
> > the receiver before it causes problems recovering the original
> > signal?  I realize that it
> > all depends ... I'm just interested in getting a rough idea.
>
> > For example, at what point is:
>
> >   1) SSB voice reception noticeably affected?
>
> >   2) the ability to receive images from weather satellites affected?
>
> >   3) various amateur radio modes such as PSK31, RTTY, and MFSK16
> > affected?
>
> >   4) HD Radio specs 600 ns as the max for the transmitter, what's the
> > max for the receiver?
>
> > I'm curious since the group delay variation of SAW filters available
> > for IF filtering seems
> > to vary widely.
>
> I have been playing with homebrew crystal filters (following W7ZOI and
> Bill Carver/K6OLG) for CW, as well as audio filters, and can tell you
> that on CW the difference between a super-sharp-in-frequency
> Chesbyshev filter (typical in ham equipment for a long time now) and a
> more constant-delay (e.g. Gaussian to 6dB or 12dB, or equiripple
> linear phase) filter is like night and day.
>
> My impressions are done "to my ears", not to a spectrum analyzer.
>
> The super sharp in frequency Chesbyshev filters have horrible horrible
> ringing especially on say 40M or 80M in the summer with the QRN. I can
> hardly listen for a few minutes without getting disgusted. BUT... they
> do have a real advantage during say a contest when there's competing
> signals every few hundred Hz.
>
```

> At the other extreme the constant-delay filters sound remarkably clear and transparent. They do not have such a sharp stopband, but my ear makes up for that most of the time. Ringing from summertime band noise is not nearly so tiring.
>
> Most of the filter simulation programs (AADE, SPICE, NatSemi's cool new WebBench filter tools, etc.) let you look at not just frequency response but also phase response and (maybe most importantly for summertime QRN) impulse response. Having run the simulations and listened with my ears to my experiments this summer, I cannot emphasize how much more enjoyable it is to use a Gaussian-to-6dB or equiripple linear phase filter in CW.
>
> Often when the bands are not crowded but there is QRN, I far far prefer a simple two-pole crystal filter designed for CW in the first place (e.g. my Heath HW-16) to any fancy-pants 8-pole or 12-pole modern filters in my new rigs.
>
> I notice you ask about a lot of digital modes but not CW. My ears have been listening to CW for 30-some years now and I can do a lot of processing in my brain. But what my brain cannot remove is horrible filter ringing. I don't know how those other digital modes stack up... maybe computers are better at removing horrible ringing than my brain.
>
> I don't think I have a "golden ear" or any other audiophile quality. In fact I'm pretty sure my ears are less good than they were when I was a kid doing CW.
>
> Tim N3QE

Obviously, both the time and the frequency response are determined by the positions of the poles and zeros of a linear system (filter), but be a bit careful about equating group delay and ringing. It's easy to make an FIR digital filter that has constant group delay, but rings quite nicely.

I suspect the people who design RF communications systems using modern modulation schemes know the answers to John's questions. There's probably another newsgroup where you'd get more answers. Or--run some simulations. I can imagine creating ideal signals in Scilab (or Matlab) and feeding them through various filters, and then demodulating them. It shouldn't be terribly difficult to do that, but I'm not volunteering.

Cheers,
Tom

From -2501698752579707947
X-Google-Thread: fc2a5,eb3c08f283a3f44f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!postnews.google.com!

w8g2000prd.googlegroups.com!not-for-mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Group Delay Variation - How much is too much?
Date: Fri, 27 Jun 2008 14:16:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 89
Message-ID: <d1c23d94-d6c8-4796-9df1-5cdecca96381@w8g2000prd.googlegroups.com>
References: <ee282ed6-28e6-4135-97a7-5d8f56d6eaa0@59g2000hsb.googlegroups.com>
     <fa048135-72aa-4979-bdf0-5e98e4815d3a@34g2000hsf.googlegroups.com>
     <4daba4e1-a3a3-4db1-8137-930e1d37efa0@v1g2000pra.googlegroups.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1214601388 25880 127.0.0.1 (27 Jun 2008 21:16:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 27 Jun 2008 21:16:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w8g2000prd.googlegroups.com; posting-host=207.200.116.11;
     posting-account=0Q4qJQoAAAB4vjIbnPnpY8JqAcYZv7Os
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
     SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
3.0.04506),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s]), HTTP/1.1
     spider-ntc-ta05.proxy.aol.com[CFC87005] (Prism/1.2.1), HTTP/1.1
     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:264

K7ITM wrote on Thurs, Jun 26 2008 2:45 pm

>On Jun 25, 6:45 am, Tim Shoppa <sho...@trailing-edge.com> wrote:
>> On Jun 24, 11:46 pm, j...@feith.com wrote:
>
>> I don't think I have a "golden ear" or any other audiophile quality.
>> In fact I'm pretty sure my ears are less good than they were when I
>> was a kid doing CW.
>>
>> Tim N3QE
>
>Obviously, both the time and the frequency response are determined by
>the positions of the poles and zeros of a linear system (filter), but
>be a bit careful about equating group delay and ringing. It's easy to
>make an FIR digital filter that has constant group delay, but rings
>quite nicely.

'Ringing' and group-delay over a passband are separate things but, in
practice they are are related. In passive-component filters they are
quite related.

'Ringing' phenomena can be investigated analytically in any time-
domain circuit analysis program. I use LTSpice from National Semi-

conductor...totally free for download and works on any PC. SPICE compatible, the source stimulus can be set as a pulse of several cycles with the rise-time, fall-time adjustable. If there is electronic-cause ringing, it will show up at the output.

Every single passive-component filter has time delay. If the time delay is unequal across the passband, then one will hear the ringing. Such ringing isn't always a physical-electronic thing IN the filter but more in the way the human brain perceives sound. True high-fidelity electronic music systems will have near-equal time delay over its entire passband. Unfortunately, few, if any, of the first Hi-Fi systems makers ever published specifications on group-delay or delay of any kind. [excluding speakers, of course, since those and their interrelationship with a room are so acoustically variable that no common standard could be reasonably adopted]

It is very hard to describe sound that is FELT rather than measured by instruments. As Tim said about CW use, ringing causes an actual discomfort. With wideband home music systems there is very little perceived 'ringing' but there exists 'quality' which can only be graded by comparison with another system as 'A-B' testing. The one that FEELS like it sounds best would be the winner.

For non-audio use, such as in AM-PM ('QAM') modulation combinations in modems, inter-symbol distortion with/without an 'eye' display can grade things...and group-delay effects aren't the only things to blame there, lots of others in the total path.

Simpler FSK systems such as single-channel teleprinter need concentrate on group-delay only over a passband about twice the frequency of its frequency shift between Mark and Space. Group-delay there shows up more on demodulated pulse edge ditortion. Ringing there can be seen easily at the edge transitions. A compromise there is to have group-delay greater beyond the needed passband limits resulting in rounded transitions; demodulator output can be shaped afterwards as desired.

NTSC analog video examples do not really apply since the common ACTUAL bandwidth of most smaller TV sets was so limited (down to 1 MHz in some) that group-delay effects are hidden in the resulting video passband distortion of details on objects.

Broadcast FM is hard to define in felt-quality since FM's 'quiet' spectrum use is relatively narrow. 'Loud' passages of music uses more spectrum space, thus group-delay effects over a passband are more pronounced on loud passages.

>... I can imagine creating ideal signals in Scilab (or
>Matlab) and feeding them through various filters, and then
>demodulating them. It shouldn't be terribly difficult to do that, but
>I'm not volunteering.

Machine-in, machine-out systems such as teleprinters and modems can be compared relatively easily with computer analysis programs. Regardless of the computer program, none can substitute for what is FELT in the ear-brain sensory system with acoustic input. I see a valid test as only A-B or A-B-C (or more) comparisons using the same audio or audio-modulation input. That is a LOT more work. Most of what I've done in that delay subject are locked into lab notebooks in corporate ownership and it involves many man-weeks of investigation. The best one can hope for, in my estimation, are general guides on limits from the many and varied radio services.

73, Len AF6AY

```
From -1836617300572004021
X-Google-Thread: fc2a5,eb3c08f283a3f44f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w5g2000prd.googlegroups.com!not-for-
mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Group Delay Variation - How much is too much?
Date: Fri, 27 Jun 2008 14:24:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <460d5ac9-622b-4777-ac26-35a2ec66e9ea@w5g2000prd.googlegroups.com>
References: <ee282ed6-28e6-4135-97a7-5d8f56d6eaa0@59g2000hsb.googlegroups.com>
     <fa048135-72aa-4979-bdf0-5e98e4815d3a@34g2000hsf.googlegroups.com>
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NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1214601875 23217 127.0.0.1 (27 Jun 2008 21:24:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 27 Jun 2008 21:24:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w5g2000prd.googlegroups.com; posting-host=207.200.116.11;
     posting-account=0Q4qJQoAAAB4vjIbnPnpY8JqAcYZv7Os
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
     SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
3.0.04506),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-ntc-ta05.proxy.aol.com[CFC87005] (Prism/1.2.1), HTTP/1.1
     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:265
```

It just occurred to me that many don't know what "group-delay" is. It is physically-electronically a time delay from input to output that may vary depending on the input frequency versus the magnitude-phase response of the filter within its passband.

Group-delay is defined as the difference in phase delay versus frequency difference over very small differences in frequency. Most analysis programs show that as a matter-of-course using frequency-domain analyses. Using around 50 or more different frequencies of a linear source sweep input will show the actual filter time-delay, input to output, that is very close to the real thing.

73, Len AF6AY

```
From -4089631206597850082
X-Google-Thread: fc2a5,f07dac25cf973098,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 04 Jun 2008 17:46:25 -0500
From: "W3CQH" <hsgorden@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: removing enamel
Date: Wed, 4 Jun 2008 18:46:32 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <xdWdnSgRAPnchtrVnZ2dnUVZ_tHinZ2d@comcast.com>
Lines: 6
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 76.100.216.180
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nF4SfCE7m0Uwr+Ky4gKbcFXk6hbcHs=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:114
```

Thanks to all who responded to the question, with all of your expertise and comments.

Best 73's, it turned out to be a very interesting thread.

From -6559168969926175459
X-Google-Thread: fc2a5,f07dac25cf973098
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
news.astraweb.com!border1.a.newsrouter.astraweb.com!tudelft.nl!
binfeed2.tudelft.nl!news1.tudelft.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: removing enamel
From: SamSvL <samsvl@nlr.nl>
References: <xdWdnSgRAPnchtrVnZ2dnUVZ_tHinZ2d@comcast.com>
Organization: NLR
Message-ID: <Xns9AB460023E7E9samsvlnlrnl@192.87.166.15>
User-Agent: Xnews/5.04.25
X-Complaints-To: sysadmin@tudelft.nl
Date: Thu, 05 Jun 2008 09:27:47 +0200
Lines: 14
NNTP-Posting-Host: 137.17.137.222 (137.17.137.222)
NNTP-Posting-Date: Thu, 05 Jun 2008 09:27:47 +0200
X-Trace: eba85484795732cb42c7b16822
Xref: g2news1.google.com rec.radio.amateur.homebrew:115

"W3CQH" <hsgorden@comcast.net> wrote in
news:xdWdnSgRAPnchtrVnZ2dnUVZ_tHinZ2d@comcast.com:

> Thanks to all who responded to the question, with all of your
> expertise and comments.
>
> Best 73's, it turned out to be a very interesting thread.
>
>

Formic acid (CH2O2) works fine for me

Sam

From 2989187638499553510
X-Google-Thread: fc2a5,f07dac25cf973098
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
k37g2000hsf.googlegroups.com!not-for-mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: removing enamel
Date: Thu, 5 Jun 2008 06:19:06 -0700 (PDT)
Organization: http://groups.google.com
Lines: 9
Message-ID: <66863399-ead2-4e6a-95c2-e8f4d4d7b06f@k37g2000hsf.googlegroups.com>

```
References: <xdWdnSgRAPnchtrVnZ2dnUVZ_tHinZ2d@comcast.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1212671947 21791 127.0.0.1 (5 Jun 2008 13:19:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 5 Jun 2008 13:19:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k37g2000hsf.googlegroups.com; posting-host=216.203.30.4;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:117

On Jun 4, 5:46=A0pm, "W3CQH" <hsgor...@comcast.net> wrote:
> Thanks to all who responded to the question, with all of your expertise an=
d
> comments.
>
> Best 73's, =A0it turned out to be a very interesting thread.


http://www.eraser.com/catpdf.cgi/Magnet.pdf?mode=3Ddownload&catpdf_id=3D11


From -4656545178487530660
X-Google-Thread: fc2a5,b8dd9cdc7de58cae,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
b1g2000hsg.googlegroups.com!not-for-mail
From: spamhog <n1jpr@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: voltage comparator for MOSFET driver in HF CW TX?
Date: Thu, 5 Jun 2008 09:32:33 -0700 (PDT)
Organization: http://groups.google.com
Lines: 39
Message-ID: <49921247-f01f-4054-924d-6205df5ddfde@b1g2000hsg.googlegroups.com>
NNTP-Posting-Host: 85.20.126.246
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1212683554 24273 127.0.0.1 (5 Jun 2008 16:32:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 5 Jun 2008 16:32:34 +0000 (UTC)
Cc: pharden@nrao.edu
Complaints-To: groups-abuse@google.com
Injection-Info: b1g2000hsg.googlegroups.com; posting-host=85.20.126.246;
     posting-account=tuTwjgoAAABgsw0HP7EbLMV3yMd8jh4C
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.27 (Windows NT 5.1; U; en),gzip(gfe),gzip(gfe)
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:118

I'm playing with 600V ex-PSU MOSFETs (with very high Ciss) as HF switching finals, with some success.

I'd like to put together a driver that takes sinusoidal input into a fast voltage comparator, and produce a variable pulse-width low-Z output that could be used to efficiently trim the output power.

With such a driver, a suitable slow data stream into a DAC could be used to generate a variable control voltage that could in turn cause the RF output to vary as to conveniently simulate ionospheric fading. (Just kidding. I promise).

I read specs of many possible ICs types but I am at loss as to which common and inexpensive types may be suitable, and found no examples of specific types used in that specific role.

I had klutzed with DC-offsetting a sinusoidal signal into an ugly nonlinear driver to that effect, but the idea of using a comparator is from Paul Harden N5AN (who is CCed):

http://www.aoc.nrao.edu/~pharden/hobby/_ClassDEF2.pdf

Any suggestions?

Also, did anyone press into HF service a standard suite of PWM and MOSFET driver ICs used in automotive applications?

I saw operating frequencies in the order of 400kHz, but with driver transition times in the 10-20ns range, which is already promising - although perhaps I would not try them on a MOSFET totempole at 10MHz, or at least not right away...

TIA!

Filippo N1JPR/I2

From 1958705539627523422
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!news.bellsouth.net!hwmnpeer01.phx!news.highwinds-media.com!hw-filter.lga!newsfe15.lga.POSTED!53ab2750!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>

Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
Subject: Re: VoiceMax Speech Processor...
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <jZX1k.2010$nD3.912@newsfe15.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe15.lga 1212697551 72.209.25.33 (Thu, 05 Jun 2008 13:25:51 MST)
NNTP-Posting-Date: Thu, 05 Jun 2008 13:25:51 MST
Organization: Cox
Date: Thu, 5 Jun 2008 16:25:44 -0400
Xref: g2news1.google.com rec.radio.cb:517 rec.radio.amateur.equipment:121 rec.radio.amateur.homebrew:119

"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message news:c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com...
> VoiceMax is really gaining momentum!
> Radio operators all over the world are enjoying the Voicemax
> advantage.
> Since VoiceMax doesn't use audio "clipping"... your audio is loud AND
> clear.
> What a concept!
>
> See what VoiceMax can do for you at
> http://www.telstar-electronics.com/voicemax.htm

What is the dB advantage of this vs. RF clipping for SSB?

From 7718059046824608363
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!b1g2000hsg.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Thu, 5 Jun 2008 14:56:07 -0700 (PDT)
Organization: http://groups.google.com
Lines: 174
Message-ID: <e0bdf3d7-33ad-4c3b-bfb0-b6e7e655f0b1@b1g2000hsg.googlegroups.com>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
<7aerg5-09m.ln1@radagast.org> <f32ff7a4-40f7-4007-

```
b071-0c0b2507a5c3@2g2000hsn.googlegroups.com>
     <JSb%j.229$Cr.45@fe101.usenetserver.com> <4e7e628e-1ff3-4621-
ba4c-9ab027b54024@25g2000hsx.googlegroups.com>
     <g1mbdj$u1e$1@f04n12.cac.psu.edu> <7fbe5a7d-63b9-40d7-ad0c-
e8f279768201@59g2000hsb.googlegroups.com>
     <g21enn$17ne$1@f04n12.cac.psu.edu>
NNTP-Posting-Host: 207.101.100.154
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1212702967 16984 127.0.0.1 (5 Jun 2008 21:56:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 5 Jun 2008 21:56:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b1g2000hsg.googlegroups.com; posting-host=207.101.100.154;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:120

On Jun 2, 2:38=C2=A0pm, Michael Coslo <m...@psu.edu> wrote:
> N...@aol.com wrote:
> > On May 29, 9:34=EF=BF=BDam, Michael Coslo <m...@psu.edu> wrote:
> >> N...@aol.com wrote:
> >>> On May 28, 8:03 am, gwatts <gwa...@frontiernet.net> wrote:
> >>>> AF6AY wrote:
>
> >>>>> The do-gooders done did too much with all those
> >>>>> warnings and
> >>>>> attempts to protect us all from everything.
>
> >>> If a product is dangerous, why shouldn't it have warnings?
> >>> Particularly when there are known carcinogens and other
> >>> health hazards involved?
>
> >>> It's not being a "do-gooder" or "doing too much"
> >>> to discover hazards
> >>> and eliminate or contain them.
>
> >> I think it a matter of magnitude.
>
> > Not really. See below.
>
> >> Some items such as Benzene are pretty dangerous
> >> and have an established
> >> track record of making people sick. Those should go
> >> whenever possible.
>
> > Agreed.
>
> >> OTOH, the little bottle of Strip-X with it's foul stench is probably no=
t
```

> >> going to cause anyone harm outside of self inflicted (i.e. suicide
> >> attempts)
>
> > But it *is* dangerous stuff, and should have adequate warnings,
> > shouldn't it?
>
> There's my magnitude issue. I'm in no way implying that there be no
> warning on the bottles. I am implying that it is a useful product, and
> legislating it out of existence, or just making it too much trouble for
> a company to produce is not a good thing.

Something just occurred to me.

We don't *know* that Strip-X was discontinued because of health/safety/
environmental/"do-gooder" issues. That's pure speculation.

It's quite possible - in fact, probable - that the reason Strip-X was
discontinued was lack of sales. After all, the *professionals* use
solder pots, not chemicals. Amateurs who are in the know use solder
pots, or a solder blob.

I suspect that the market for Strip-X was so small it wasn't worth
producing any more.

> We do have a system that is pretty good. The MSDS reports are pretty
> slick and non-sensational.
>
> Of course, they won't fit on that little bottle! 8^)

And folks have to read them and understand them.

> I'd rather read that than something about what "The state of California
> knows" you know, those strange postings beside gasoline pumps? This
> product is know to the State of California as a carcinogen" type stuff.
>
> I wonder how many people called up the state of California to talk about
> that?

bwaahaahaaa

> > What does "do-gooder done did too much with all those warnings and
> > attempts to protect us all from everything."
> > really mean? Are there too many warnings on dangerous chemicals?
>
> I don't mind the warnings too much as long as they are not stupid
> warnings. What I do mind is when a useful product goes away.

But as I wrote, we don't *know* that such things got rid of Strip-X. I
say it was solder pots.

> > More important, do we really *know* that Strip-X isn't going to cause
> > anyone harm unless intentionally abused?
>

> Or salted codfish for that matter? I know that sounds a little
> sarcastic, but the point is that there is a statistical correlation
> between large consumption of salted and smoked fish with stomach cancer.

Correlation isn't causation. Unless a controlled study is done that eliminates other variables, a causation is not proven. For example, it could be that those who eat lots of salted and smoked fish also tend to eat lots of something else, and it's the something else which is the real cause.

The "known to California" jargon means such controlled studies have been done.

> > Did every user of the stuff do so in a "well-ventilated area"? I think
> > not.
>
> One can only give guidelines, not enforce them.

Of course. And people have to read them!

> > Once upon a time, cars had single main hydraulic brake systems. The
> > master cylinder had one pump that fed all four wheel cylinders.

> > It was simple and effective, but a failure anywhere in the system
> > (wheel cylinder, master cylinder, brake lines, etc.) meant total
> > hydraulic brake system failure.

> > Then the "do-gooders" pushed for dual brake systems, on the theory
> > that most single failures would leave half the brake system working,
> > plus a warning system.

> > Critics said that the cost and complexity were too much, and that
> > complete brake failure was very rare in then-modern cars with single
> > systems.
> > The "do-gooders" won, and dual brake systems with warnings became the
> > standard.

> > Was that excessive? I guess it depends on whether you've ever had the
> > brake pedal go right to the floor at a critical moment.

> For me at least, the comparison of mechanical with chemical issues is a
> little hard to work.

Why? It's the same concept: reduction of avoidable risk.

The point is that the *professionals* who made the cars resisted safety improvements that we now take for granted.

> I have long advocated such radical technology as
> strong roll cages, 5 point seat belts and fire suppression systems on
> automobiles if we want to get serious about safety.

A roll cage isn't needed if the car structure is built strong enough

(roof won't collapse if car rolls over)

True harnesses are a good idea, as is fire suppression.

> On the other hand, I've silvered my telescope mirrors in my garage. This
> involves a litany of nasty stuff, from Silver nitrate to =C2=A0potassium
> hydroxide to nitric acid. (now that stuff is scary) And oddly enough,
> sucrose and citric acid. I'd hate to be not allowed to do such things
> because someone thought I might get hurt.

Hydroflouric acid is *really* nasty.

The Big Issue IMHO is whether a dangerous process can be made safer. Is there a safer way to silver a telescope mirror?

There *is* a safer way to remove enamel from wire, and you get the added bonus of a tinned wire. Why use a chemical at all?

Related topic:

The EU has regs that are essentially outlawing lead solder in electronics. Because the EU is such a big market, most electronics makers are following along, and rather than deal with both lead and no-lead solders, they're going all-no-lead. With all the problems lead-free electronic solders bring along.

But IMHO the whole thing is wrong-headed. Lead in the environment is a problem, but the solution is recycling, not banning lead.

How ironic is it that a major rework of a car's electronics will be done to eliminate a few ounces of lead-tin solder, while the car's battery contains many pounds of lead and acid?

73 de Jim, N2EY

From 8974192898977184100
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!m3g2000hsc.googlegroups.com!not-for-mail
From: cmdr buzz corey <cmdr-buzz-corey@mailcity.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Thu, 5 Jun 2008 21:35:00 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
Message-ID: <0881c8e8-0a85-41df-97e8-8ecdf767427a@m3g2000hsc.googlegroups.com>

```
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
     <jZX1k.2010$nD3.912@newsfe15.lga>
NNTP-Posting-Host: 97.112.140.28
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1212726900 22592 127.0.0.1 (6 Jun 2008 04:35:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 6 Jun 2008 04:35:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m3g2000hsc.googlegroups.com; posting-host=97.112.140.28;
     posting-account=HJ9iyAoAAAAfGCc0rQlblmrdTKl_8J7N
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.14)
     Gecko/20061201 Firefox/2.0.0.14 (Ubuntu-feisty),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.cb:519 rec.radio.amateur.equipment:129
rec.radio.amateur.homebrew:121

On Jun 5, 2:25 pm, "Tio Pedro" <radioconnect...@cox.net> wrote:
> "Telstar Electronics" <briangrif...@sbcglobal.net> wrote in message
>
> news:c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com...
>
> > VoiceMax is really gaining momentum!
> > Radio operators all over the world are enjoying the Voicemax
> > advantage.
> > Since VoiceMax doesn't use audio "clipping"... your audio is loud AND
> > clear.
> > What a concept!
>
> > See what VoiceMax can do for you at
> >http://www.telstar-electronics.com/voicemax.htm
>
> What is the dB advantage of this vs. RF clipping for SSB?

It is a splatter box add-on.


From -6941019022249886371
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 06 Jun 2008 05:25:44 -0500
Date: Thu, 05 Jun 2008 06:32:23 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Lead free solder , was : REMOVING ENAMEL COATING
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
```

```
     <7aerg5-09m.ln1@radagast.org> <f32ff7a4-40f7-4007-
b071-0c0b2507a5c3@2g2000hsn.googlegroups.com>
<JSb%j.229$Cr.45@fe101.usenetserver.com> <4e7e628e-1ff3-4621-
ba4c-9ab027b54024@25g2000hsx.googlegroups.com>
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<e0bdf3d7-33ad-4c3b-bfb0-b6e7e655f0b1@b1g2000hsg.googlegroups.com>
In-Reply-To: <e0bdf3d7-33ad-4c3b-bfb0-b6e7e655f0b1@b1g2000hsg.googlegroups.com>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <5oednfu5BfU1jdTVnZ2dnUVZ8sijnZ2d@pipex.net>
Lines: 41
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.76.16
X-Trace: sv3-YPm8cuCAzyx2/
F4g0e1CgnlVQu4+ENG1FcFQi5qGtF4N4TxWp5n6g9c7LUERAzZLEJcIAtM+SksxyGV!VbgX8N/
t7+Rnt7g0VLU12oYg+kqzMNai/1i5Vj5a4cJHZl1mWbh1WuIqbaT4NgOQUVpaJ24ucCJH!
fw6gdEelSjJiROnyirIfR2vf
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:122
```

> The EU has regs that are essentially outlawing lead solder in
> electronics. Because the EU is such a big market, most electronics
> makers are following along, and rather than deal with both lead and no-
> lead solders, they're going all-no-lead. With all the problems lead-
> free electronic solders bring along.
>
> But IMHO the whole thing is wrong-headed. Lead in the environment is a
> problem, but the solution is recycling, not banning lead.
>
> How ironic is it that a major rework of a car's electronics will be
> done to eliminate a few ounces of lead-tin solder, while the car's
> battery contains many pounds of lead and acid?

==

Indeed ,lead free solder does not flow that well even at elevated
temperatures ,
so I have stocked up on leaded solder (possibly sufficiently for the
rest of my home brewing life).

But the point is that electronic equipment having printed circuit boards
contain a very low percentage (weight wise) of solder. If that solder
contains lead any recycling effort to recover/isolate the lead will be
exceedingly costly. In the past printed circuit boards were pulverised
to recover the gold on 'contact fingers' through a chemical process ,
but apparently that is no longer viable.

So although there is very little lead in electronic equipment manufactured with 60/40 or 63/37 leaded solder ,when equipment ends up in a land fill the cumulative effect is bad ,poisoning ground water.

So it does make sense to go for lead free solder.

BTW : In the UK leaded solder is still available ,although no longer from High Street retail outlets like Maplin Electronics .

Lead Acid Batteries have a large percentage of lead (weight wise) ,hence recycling is commercially viable .

Frank   GM0CSZ / KN6WH

```
From 4184204672098904536
X-Google-Thread: fc2a5,b8dd9cdc7de58cae
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
y21g2000hsf.googlegroups.com!not-for-mail
From: NM0S <ai9e_qrp@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: voltage comparator for MOSFET driver in HF CW TX?
Date: Fri, 6 Jun 2008 07:00:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 55
Message-ID: <6497944b-05b2-4de8-b016-4cdbf6d4301c@y21g2000hsf.googlegroups.com>
References: <49921247-f01f-4054-924d-6205df5ddfde@b1g2000hsg.googlegroups.com>
NNTP-Posting-Host: 205.175.225.24
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1212760805 26065 127.0.0.1 (6 Jun 2008 14:00:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 6 Jun 2008 14:00:05 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y21g2000hsf.googlegroups.com; posting-host=205.175.225.24;
     posting-account=vLPEuwoAAAA4HkgukB8NwDUoUloeQunY
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     InfoPath.1; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:123
```

Filippo -
You should reconsider trying to PWM your RF switching amplifier. If you are running Class-E, changing the duty of the drive signal will not affect your output power significantly, but will destroy your efficiency if you deviate from 50% duty.

With Class-D power amp, you can PWM the drive to control output power, but it is very stressful to the MOSFET. However, there is a way to do it, see US patent 7092269.

Good luck, keep us updated.

73 - Dave NM0S

On Jun 5, 11:32=A0am, spamhog <n1...@hotmail.com> wrote:
> I'm playing with 600V ex-PSU MOSFETs (with very high Ciss) as HF
> switching finals, with some success.
>
> I'd like to put together a driver that takes sinusoidal input into a
> fast voltage comparator, and produce a variable pulse-width low-Z
> output that could be used to efficiently trim the output power.
>
> With such a driver, a suitable slow data stream into a DAC could be
> used to generate a variable control voltage that could in turn cause
> the RF output to vary as to conveniently simulate ionospheric fading.
> (Just kidding. I promise).
>
> I read specs of many possible ICs types but I am at loss as to which
> common and inexpensive types may be suitable, and found no examples of
> specific types used in that specific role.
>
> I had klutzed with DC-offsetting a sinusoidal signal into an ugly
> nonlinear driver to that effect, but the idea of using a comparator is
> from Paul Harden N5AN (who is CCed):
>
> http://www.aoc.nrao.edu/~pharden/hobby/_ClassDEF2.pdf
>
> Any suggestions?
>
> ---
>
> Also, did anyone press into HF service a standard suite of PWM and
> MOSFET driver ICs used in automotive applications?
>
> I saw operating frequencies in the order of 400kHz, but with driver
> transition times in the 10-20ns range, which is already promising -
> although perhaps I would not try them on a MOSFET totempole at 10MHz,
> or at least not right away...
>
> ---
>
> TIA!
>
> Filippo N1JPR/I2

From 2352891619749880544
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
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<5oednfu5BfU1jdTVnZ2dnUVZ8sijnZ2d@pipex.net>
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Lines: 16
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
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X-Complaints-To: abuse@charter.net
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NNTP-Posting-Date: Fri, 06 Jun 2008 07:39:25 MST
Date: Fri, 6 Jun 2008 10:39:21 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:124

"Highland Ham" <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote in message
news:5oednfu5BfU1jdTVnZ2dnUVZ8sijnZ2d@pipex.net...

> exceedingly costly. In the past printed circuit boards were pulverised to
> recover the gold on 'contact fingers' through a chemical process , but
> apparently that is no longer viable.

We have been seeing signs all over for people buying gold jewelry. This past weekend my wife knocked some talk out of one of these guys, and they said they still do recover gold from PCBs, but right now, buying old jewelry does result in a source of gold for about 1/3 the market price.

..

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X-Google-Language: ENGLISH,UTF8
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From: Michael Coslo <mjc5@psu.edu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Fri, 06 Jun 2008 11:13:40 -0400
Organization: Penn State University, Center for Academic Computing
Lines: 210
Message-ID: <g2bk74$upg$1@f04n12.cac.psu.edu>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:125

N2EY@aol.com wrote:
> On Jun 2, 2:38 pm, Michael Coslo <m...@psu.edu> wrote:
>> N...@aol.com wrote:
>>> On May 29, 9:34�am, Michael Coslo <m...@psu.edu> wrote:
>>>> N...@aol.com wrote:
>>>>> On May 28, 8:03 am, gwatts <gwa...@frontiernet.net> wrote:
>>>>>> AF6AY wrote:
>>>>>>> The do-gooders done did too much with all those
>>>>>>> warnings and
>>>>>>> attempts to protect us all from everything.
>>>>> If a product is dangerous, why shouldn't it have warnings?
>>>>> Particularly when there are known carcinogens and other
>>>>> health hazards involved?
>>>>> It's not being a "do-gooder" or "doing too much"
>>>>> to discover hazards
>>>>> and eliminate or contain them.
>>>> I think it a matter of magnitude.
>>> Not really. See below.
>>>> Some items such as Benzene are pretty dangerous
>>>> and have an established
>>>> track record of making people sick. Those should go
>>>> whenever possible.
>>> Agreed.

>>>> OTOH, the little bottle of Strip-X with it's foul stench is probably not
>>>> going to cause anyone harm outside of self inflicted (i.e. suicide
>>>> attempts)
>>> But it *is* dangerous stuff, and should have adequate warnings,
>>> shouldn't it?
>> There's my magnitude issue. I'm in no way implying that there be no
>> warning on the bottles. I am implying that it is a useful product, and
>> legislating it out of existence, or just making it too much trouble for
>> a company to produce is not a good thing.
>
> Something just occurred to me.
>
> We don't *know* that Strip-X was discontinued because of health/safety/
> environmental/"do-gooder" issues. That's pure speculation.
>
> It's quite possible - in fact, probable - that the reason Strip-X was
> discontinued was lack of sales. After all, the *professionals* use
> solder pots, not chemicals. Amateurs who are in the know use solder
> pots, or a solder blob.
>
> I suspect that the market for Strip-X was so small it wasn't worth
> producing any more.
>
>> We do have a system that is pretty good. The MSDS reports are pretty
>> slick and non-sensational.
>>
>> Of course, they won't fit on that little bottle! 8^)
>
> And folks have to read them and understand them.

The MSDS

>
>> I'd rather read that than something about what "The state of California
>> knows" you know, those strange postings beside gasoline pumps? This
>> product is know to the State of California as a carcinogen" type stuff.
>>
>> I wonder how many people called up the state of California to talk about
>> that?
>
> bwaahaahaaa
>
>>> What does "do-gooder done did too much with all those warnings and
>>> attempts to protect us all from everything."
>>> really mean? Are there too many warnings on dangerous chemicals?
>> I don't mind the warnings too much as long as they are not stupid
>> warnings. What I do mind is when a useful product goes away.
>
> But as I wrote, we don't *know* that such things got rid of Strip-X. I
> say it was solder pots.

>
>>> More important, do we really *know* that Strip-X isn't going to cause
>>> anyone harm unless intentionally abused?
>> Or salted codfish for that matter? I know that sounds a little
>> sarcastic, but the point is that there is a statistical correlation
>> between large consumption of salted and smoked fish with stomach cancer.
>
> Correlation isn't causation. Unless a controlled study is done that
> eliminates other variables, a causation is not proven. For example, it
> could be that those who eat lots of salted and smoked fish also tend
> to eat lots of something else, and it's the something else which is
> the real cause.

Water! That's it... I know when I've eaten salt cod, I get awfully
thirsty. FOr the technical among us, that is DiHydrogen Monoxide.

> The "known to California" jargon means such controlled studies have
> been done.
>
>>> Did every user of the stuff do so in a "well-ventilated area"? I think
>>> not.
>> One can only give guidelines, not enforce them.
>
> Of course. And people have to read them!
>
>>> Once upon a time, cars had single main hydraulic brake systems. The
>>> master cylinder had one pump that fed all four wheel cylinders.
>
>>> It was simple and effective, but a failure anywhere in the system
>>> (wheel cylinder, master cylinder, brake lines, etc.) meant total
>>> hydraulic brake system failure.
>
>>> Then the "do-gooders" pushed for dual brake systems, on the theory
>>> that most single failures would leave half the brake system working,
>>> plus a warning system.
>
>>> Critics said that the cost and complexity were too much, and that
>>> complete brake failure was very rare in then-modern cars with single
>>> systems.
>>> The "do-gooders" won, and dual brake systems with warnings became the
>>> standard.
>
>>> Was that excessive? I guess it depends on whether you've ever had the
>>> brake pedal go right to the floor at a critical moment.
>
>> For me at least, the comparison of mechanical with chemical issues is a
>> little hard to work.
>
> Why? It's the same concept: reduction of avoidable risk.

>
> The point is that the *professionals* who made the cars resisted
> safety improvements that we now take for granted.
>
>> I have long advocated such radical technology as
>> strong roll cages, 5 point seat belts and fire suppression systems on
>> automobiles if we want to get serious about safety.
>
> A roll cage isn't needed if the car structure is built strong enough
> (roof won't collapse if car rolls over)
>
> True harnesses are a good idea, as is fire suppression.
>
>> On the other hand, I've silvered my telescope mirrors in my garage. This
>> involves a litany of nasty stuff, from Silver nitrate to potassium
>> hydroxide to nitric acid. (now that stuff is scary) And oddly enough,
>> sucrose and citric acid. I'd hate to be not allowed to do such things
>> because someone thought I might get hurt.
>
> Hydroflouric acid is *really* nasty.

I've used it once. That's just about enough, IMO.

> The Big Issue IMHO is whether a dangerous process can be made safer.
> Is there a safer way to silver a telescope mirror?

Not specifically using silver. More common these days is sending the mirror away to have an aluminum or other coating flashed on it in a vacuum chamber. Pretty safe, but not many people are going to do that at home. I did it mainly for the experience, and to do an extended field check of the quality of the mirror. Checking out a mirror is not unlike checking out an antenna. Usually we do a star test on an uncoated mirror. We install everything in the tube, and look at stars to determine if the work we did was acceptable. But just like propagation affects how an antenna appears to work or not work, the sky conditions can affect how images look in the eyepiece. So multiple sessions are best, but no one wants to wait a long time, so most people check it out once, put in a fudge factor for how they think the seeing will be, then ship it out for aluminizing, and hope they guessed right. Sometimes they don't guess right.

I gave my mirror almost a year worth of test. I knew it was a veery good mirror after a month, but then I just continued the experiment to see how long the silver would last, since they are very fragile surfaces.

> There *is* a safer way to remove enamel from wire, and you get the
> added bonus of a tinned wire. Why use a chemical at all?

Just need to interject that solder pots aren't completely benign.

> Related topic:
>
> The EU has regs that are essentially outlawing lead solder in electronics. Because the EU is such a big market, most electronics makers are following along, and rather than deal with both lead and no-lead solders, they're going all-no-lead. With all the problems lead-free electronic solders bring along.
>
> But IMHO the whole thing is wrong-headed. Lead in the environment is a problem, but the solution is recycling, not banning lead.

Agreed. There are ways to remove most all the lead from circuit boards during a recycling process. Electronics can be designed and built with an eye towards recycling; easy disassembly, etc.

On the lead replacements, I have an old solder information book. Lots of the new replacement metals are shown in it with examples of why those metals aren't used. They were considered bad contaminants.

> How ironic is it that a major rework of a car's electronics will be done to eliminate a few ounces of lead-tin solder, while the car's battery contains many pounds of lead and acid?

Didn't think about it before, but now that you mention it, it is kinda dumb.

- 73 de Mike N3LI -

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From: Michael Coslo <mjc5@psu.edu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Lead free solder , was : REMOVING ENAMEL COATING
Date: Fri, 06 Jun 2008 11:36:54 -0400
Organization: Penn State University, Center for Academic Computing
Lines: 43
Message-ID: <g2blin$urq$1@f04n12.cac.psu.edu>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:126

Highland Ham wrote:
>> The EU has regs that are essentially outlawing lead solder in
>> electronics. Because the EU is such a big market, most electronics
>> makers are following along, and rather than deal with both lead and no-
>> lead solders, they're going all-no-lead. With all the problems lead-
>> free electronic solders bring along.
>>
>> But IMHO the whole thing is wrong-headed. Lead in the environment is a
>> problem, but the solution is recycling, not banning lead.
>>
>> How ironic is it that a major rework of a car's electronics will be
>> done to eliminate a few ounces of lead-tin solder, while the car's
>> battery contains many pounds of lead and acid?
> ==
>
>
> Indeed ,lead free solder does not flow that well even at elevated
> temperatures ,
> so I have stocked up on leaded solder (possibly sufficiently for the
> rest of my home brewing life).
>
> But the point is that electronic equipment having printed circuit boards
> contain a very low percentage (weight wise) of solder. If that solder
> contains lead any recycling effort to recover/isolate the lead will be
> exceedingly costly.

I think that machinery can be developed to handle lead removal, we
already have ways of getting the solder onto those boards in rapid fashion.

I think we aren't looking at it in the right way. Changing over is going
to cost - probably big time. We are going to have to put up with
increased failure rates, whether through solder joint failure, or
reduced component life due to added heat stress.

After all, if lead free solders were the best way to go, that's what we
would be using. So we'll be retooling and spending that money for an
inferior product. Maybe Devo was right!

And, we're saying that this new lead free solder is going to be safe to
dump in landfills. M'kay, if they say so.....

- 73 de Mike N3LI -

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mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Fri, 6 Jun 2008 09:33:32 -0700 (PDT)
Organization: http://groups.google.com
Lines: 21
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Xref: g2news1.google.com rec.radio.cb:522 rec.radio.amateur.equipment:135
rec.radio.amateur.homebrew:127
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On Jun 5, 3:25=A0pm, "Tio Pedro" <radioconnect...@cox.net> wrote:
> "Telstar Electronics" <briangrif...@sbcglobal.net> wrote in message
>
> news:c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com...
>
> > VoiceMax is really gaining momentum!
> > Radio operators all over the world are enjoying the Voicemax
> > advantage.
> > Since VoiceMax doesn't use audio "clipping"... your audio is loud AND
> > clear.
> > What a concept!
>
> > See what VoiceMax can do for you at
> >http://www.telstar-electronics.com/voicemax.htm
>
> What is the dB advantage of this vs. RF clipping for SSB?

The compression ratio of VoiceMax is fixed at 15:1 with distortion
levels well below 1%.
I suggest you read this for clarification... http://en.wikipedia.org/wiki/Au=
dio_level_compression

```
From 4892019348061831754
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
27g2000hsf.googlegroups.com!not-for-mail
From: laura halliday <marsgal42@hotmail.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Fri, 6 Jun 2008 13:47:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <92419105-6fbe-4dbf-b971-7454304c514f@27g2000hsf.googlegroups.com>
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Content-Transfer-Encoding: 7bit
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Xref: g2news1.google.com rec.radio.cb:524 rec.radio.amateur.equipment:137
rec.radio.amateur.homebrew:128
```

On Jun 5, 4:26 am, Telstar Electronics <briangrif...@sbcglobal.net>
wrote:
> VoiceMax is really gaining momentum!
> Radio operators all over the world are enjoying the Voicemax
> advantage.
> Since VoiceMax doesn't use audio "clipping"... your audio is loud AND
> clear.
> What a concept!
>
> See what VoiceMax can do for you athttp://www.telstar-electronics.com/
voicemax.htm

Here we go again!

Laura Halliday VE7LDH   "Non sequitur. Your ACKS are

```
Grid: CN89mg                    uncoordinated."
ICBM: 49 16.05 N 122 56.92 W       - Nomad the Network Engineer


From 8007555680285746880
X-Google-Thread: 106d41,eaa82000c1ae5607
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X-Google-Thread: fc2a5,eaa82000c1ae5607
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nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 06 Jun 2008 16:17:21 -0500
From: james <george@washington.edu>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Fri, 06 Jun 2008 17:17:28 -0400
Reply-To: beerkeg@budu.edu
Message-ID: <57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
<jZX1k.2010$nD3.912@newsfe15.lga>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 72.91.132.52
X-Trace: sv3-4RMHFvCSlXmO0PP/MP0i2zIL26L2c098/
XntcmPPBIz1pFU1Ypcsj+ZXwHsUVbi77bMV1PLFQnqrHRg!MguUGp3EyoATiVDTKx/
NmW6manCRvSpoLs7o/aLoKS7LqG+QGJ649LZu267h9gGWKjEkff1ep8oP!QZlUDSsoaip/b2b151fn
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.cb:526 rec.radio.amateur.equipment:138
rec.radio.amateur.homebrew:129

On Thu, 5 Jun 2008 16:25:44 -0400, "Tio Pedro"
<radioconnection@cox.net> wrote:

|
|"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
|news:c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com...
|> VoiceMax is really gaining momentum!
|> Radio operators all over the world are enjoying the Voicemax
|> advantage.
|> Since VoiceMax doesn't use audio "clipping"... your audio is loud AND
|> clear.
|> What a concept!
|>
|> See what VoiceMax can do for you at
```

|> http://www.telstar-electronics.com/voicemax.htm
|
|What is the dB advantage of this vs. RF clipping for SSB?
|
|
|----------------------

RF Clipping is superior to audio compression in SSB transmission. RF
clipping will provide about 6dB improvement over audio compression
alone.

james

From 7216330350890193957
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!69.28.186.77.MISMATCH!hwmpeer03.lga!hwmnpeer01.lga!news.highwinds-
media.com!hw-filter.lga!newsfe24.lga.POSTED!53ab2750!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
<jZX1k.2010$nD3.912@newsfe15.lga> <57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
Subject: Re: VoiceMax Speech Processor...
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <cSh2k.1791$js1.1369@newsfe24.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe24.lga 1212787208 72.209.25.33 (Fri, 06 Jun 2008 14:20:08 MST)
NNTP-Posting-Date: Fri, 06 Jun 2008 14:20:08 MST
Organization: Cox
Date: Fri, 6 Jun 2008 17:19:59 -0400
Xref: g2news1.google.com rec.radio.cb:527 rec.radio.amateur.equipment:139
rec.radio.amateur.homebrew:130

"james" <george@washington.edu> wrote in message
news:57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com...

> |----------------------
>
> RF Clipping is superior to audio compression in SSB transmission. RF
> clipping will provide about 6dB improvement over audio compression

> alone.
>
> james

Rhetorical question :)

From 348582382024210438
X-Google-Thread: fcc6e,40e2968397344bb1,start
X-Google-Thread: 11480d,40e2968397344bb1,start
X-Google-Thread: 108122,40e2968397344bb1,start
X-Google-Thread: fc2a5,40e2968397344bb1,start
X-Google-Thread: 10b9c8,40e2968397344bb1,start
X-Google-Attributes:
gidfcc6e,gid11480d,gid108122,gidfc2a5,gid10b9c8,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
transit3.readnews.com!news-out.readnews.com!news-xxxfer.readnews.com!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1210140301@panix.com>
Followup-To: poster
Date: 7 Jun 2008 02:05:02 -0400
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 10 Jul 2008 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1212818701@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1212818702 24538 166.84.1.2 (7 Jun 2008 06:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 7 Jun 2008 06:05:02 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:491 rec.radio.amateur.dx:25
rec.radio.amateur.equipment:143 rec.radio.amateur.homebrew:131 rec.radio.info:51

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

```
 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month
```

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

```
From -7103101971295390373
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news1.google.com!postnews.google.com!
l42g2000hsc.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Lead free solder , was : REMOVING ENAMEL COATING
Date: Sat, 7 Jun 2008 05:53:44 -0700 (PDT)
Organization: http://groups.google.com
Lines: 69
Message-ID: <3487cb32-9ceb-40ee-bde5-f7a3abff8280@l42g2000hsc.googlegroups.com>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
     <7aerg5-09m.ln1@radagast.org> <f32ff7a4-40f7-4007-
b071-0c0b2507a5c3@2g2000hsn.googlegroups.com>
     <JSb%j.229$Cr.45@fe101.usenetserver.com> <4e7e628e-1ff3-4621-
ba4c-9ab027b54024@25g2000hsx.googlegroups.com>
     <g1mbdj$u1e$1@f04n12.cac.psu.edu> <7fbe5a7d-63b9-40d7-ad0c-
e8f279768201@59g2000hsb.googlegroups.com>
```

```
     <g21enn$17ne$1@f04n12.cac.psu.edu> <e0bdf3d7-33ad-4c3b-bfb0-
b6e7e655f0b1@b1g2000hsg.googlegroups.com>
     <5oednfu5BfU1jdTVnZ2dnUVZ8sijnZ2d@pipex.net>
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Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1212843224 10037 127.0.0.1 (7 Jun 2008 12:53:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 7 Jun 2008 12:53:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l42g2000hsc.googlegroups.com; posting-host=205.188.117.200;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
     98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-dtc-tf07.proxy.aol.com[CDBC70A7] (Prism/1.2.1),
     HTTP/1.1 cache-dtc-ah08.proxy.aol.com[CDBC75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:132

On Jun 5, 1:32=EF=BF=BDam, Highland Ham <abcgm0csz.kn6wh...@dsl.pipex.com>
wrote:
(N2EY wrote):
> > The EU has regs that are essentially outlawing lead solder in
> > electronics. Because the EU is such a big market, most electronics
> > makers are following along, and rather than deal with both lead and no-
> > lead solders, they're going all-no-lead. With all the problems lead-
> > free electronic solders bring along.
>
> > But IMHO the whole thing is wrong-headed. Lead in the environment is a
> > problem, but the solution is recycling, not banning lead.
>
> > How ironic is it that a major rework of a car's electronics will be
> > done to eliminate a few ounces of lead-tin solder, while the car's
> > battery contains many pounds of lead and acid?
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
>
> Indeed ,lead free solder does not flow that well even at elevated
> temperatures ,
> so I have stocked up on leaded solder (possibly sufficiently for the
> rest of my home brewing life).

I think a lot of electronics folks have done the same.

> But the point is that electronic equipment having printed circuit boards
> contain a very low percentage (weight wise) of solder. If that solder
> contains lead any recycling effort to recover/isolate the lead will be
> exceedingly costly. In the past printed circuit boards were pulverised
> to recover the gold on 'contact fingers' through a chemical process ,
> but apparently that is no longer viable.
```

Whether it's viable depends on the rules. Here in the USA, a number of states require a deposit (usually five cents) on beverage containers. That deposit is typically far more than the intrinsic worth of the metal, glass or plasti in the container, but that's not the point. Instead, the deposit makes it worthwhile to collect and recycle the containers, keeping them out of the trash stream and reducing litter. Why couldn't there be such a deposit on electronics?

> So although there is very little lead in electronic equipment
> manufactured with 60/40 or 63/37 leaded solder ,when equipment ends up
> in a land fill the cumulative effect is bad ,poisoning ground water.

All sorts of things wind up in landfills that are far worse than the small amount of lead solder in electronics. Are the metals in lead-free solder all benign?

> So it does make sense to go for lead free solder.

I think there are better ways to keep lead out of the trash.

> BTW : In the UK leaded solder is still available ,although no longer
> from High Street retail outlets like Maplin Electronics .
>
> Lead Acid Batteries have a large percentage of lead (weight wise) ,hence
> recycling is commercially viable .

But does that guarantee no lead or cadmium containing batteries of any kind wind up in landfills? Just one car battery in a stream is far more contamination than a very large number of PC boards.

IMHO, the big problem is that electronics of all kinds is becoming a throw-away item, with short useful lifespan, but recycling lags far behind. The problems of lead-free solder may make the lifespan shorter, and so the disposal problem worse.

73 de Jim, N2EY

From 3849386930126793425
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!headwall.stanford.edu!newshub.sdsu.edu!flpi089.ffdc.sbc.com!prodigy.net!flpi088.ffdc.sbc.com!prodigy.com!flpi107.ffdc.sbc.com!nlpi064.nbdc.sbc.com.POSTED!31d6067f!not-for-mail
From: Jim Adney <jadney@vwtype3.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Message-ID: <av2l44hnj14g7ql42fmh210a2h2ika3gms@4ax.com>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com> <7aerg5-09m.ln1@radagast.org> <f32ff7a4-40f7-4007-b071-0c0b2507a5c3@2g2000hsn.googlegroups.com>

```
<JSb%j.229$Cr.45@fe101.usenetserver.com> <4e7e628e-1ff3-4621-
ba4c-9ab027b54024@25g2000hsx.googlegroups.com>  <g1mbdj$u1e$1@f04n12.cac.psu.edu>
<7fbe5a7d-63b9-40d7-ad0c-e8f279768201@59g2000hsb.googlegroups.com>
<g21enn$17ne$1@f04n12.cac.psu.edu> <e0bdf3d7-33ad-4c3b-bfb0-
b6e7e655f0b1@b1g2000hsg.googlegroups.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 14
NNTP-Posting-Host: 70.226.168.99
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi064.nbdc.sbc.com 1212848734 ST000 70.226.168.99 (Sat, 07 Jun 2008
10:25:34 EDT)
NNTP-Posting-Date: Sat, 07 Jun 2008 10:25:34 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
Q[R_PJSCTS@GRR\X@HKLOQ@@LJTDPOXOLBWLOOAFQATJUZ]CDVW[AKK[J\]^HVKHG^EWZHBLO^[\NH_AZF
WGN^\DHNVMX_DHHX[FSQKBOTS@@BP^]C@RHS_AGDDC[AJM_T[GZNRNZAY]GNCPBDYKOLK^_CZFWPGHZIXW
@C[AFKBBQS@E@DAZ]VDFUNTQQ]FN
Date: Sat, 07 Jun 2008 09:25:53 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:133

On Thu, 5 Jun 2008 14:56:07 -0700 (PDT) N2EY@aol.com wrote:

>How ironic is it that a major rework of a car's electronics will be
>done to eliminate a few ounces of lead-tin solder, while the car's
>battery contains many pounds of lead and acid?

I think you'll find that auto batteries are already VERY commonly
recycled, for exactly this reason.

-
-----------------------------------------------
    Jim Adney            jadney@vwtype3.org
           Madison, WI 53711 USA
-----------------------------------------------



From -2537380184980312617
X-Google-Thread: fc2a5,b8dd9cdc7de58cae
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!z66g2000hsc.googlegroups.com!not-for-
mail
From: spamhog <n1jpr@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: voltage comparator for MOSFET driver in HF CW TX?
Date: Sat, 7 Jun 2008 09:01:56 -0700 (PDT)
Organization: http://groups.google.com
Lines: 64
Message-ID: <d5dfebae-5615-4600-b76b-adb21c44b97e@z66g2000hsc.googlegroups.com>
References: <49921247-f01f-4054-924d-6205df5ddfde@b1g2000hsg.googlegroups.com>
```

```
     <6497944b-05b2-4de8-b016-4cdbf6d4301c@y21g2000hsf.googlegroups.com>
NNTP-Posting-Host: 213.140.6.109
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1212854517 11068 127.0.0.1 (7 Jun 2008 16:01:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 7 Jun 2008 16:01:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z66g2000hsc.googlegroups.com; posting-host=213.140.6.109;
     posting-account=tuTwjgoAAABgsw0HP7EbLMV3yMd8jh4C
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.27 (Windows NT 5.1; U; en),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:134
```

On Jun 6, 2:00=A0pm, NM0S <ai9e_...@yahoo.com> wrote:

> If you are running Class-E, changing the duty of the drive signal will not affect your output power significantly, but will destroy your efficiency if you deviate from 50% duty.

Thank you, Dave!

My understanding was that duty cycle would set output even in class E.

I like to gather silicon from the recycling heap, and although I have IRF510's, my current victim is a SK2545, wrung out of a PSU, Pd=3D40W, Vdss=3D600V, and Ciss=3D1.3nF (!) not easy to stress - actually, that's exactly why I opted for that class of device, only partly fit for purpose, but forgiving, and easy to find.

I already wrung several watts of RF out of at 10MHz it with decidedly ugly and bad drivers which I did not manage to run in switch mode. They heated up a lot, but the final got sufficiently "overdriven" to partly go switchmode, and did not heat up that much.

I have a totempole ready with complementary BJTs from a printer driver (2SA2037 / 2SC5694, 60V, 7A, 300MHz), they need .85Vbe to go into saturation.

Ample current is needed to quickly charge and discharge the MOSFET gate, I reckon it'd take ~ 250mA, hence the driver'd better be switching too rather than overheat in linear mode. So, duty cycle aside, I need a clean square wave.

MOSFET gate must be swung from <3V to >10V, driver bases need >8.5Vpp.

I could use a 74HC240 line driver for VXO and amp, enough current for a IFR510, surely not for Ciss> 1000pF, but OK for the complementary pair.

Yet a comparator would indeed be ideal. With it I could one day also futz with duty and see by myself what happens... [read John 20:29].

Now, off to read US patent 7092269! :-) After all, I am shooting for class D, not E. I want to design a frequency flexible matching and filter network to cover many bands with few components, perhaps resorting to old fashioned variable capacitors, E would be way too complicated anyway, and efficient output throttling would be nice to have.

Does anyone have a suggestion for a common and inexpensive type that works well throughout HF?

From 7186190106931644774
X-Google-Thread: fc2a5,b8dd9cdc7de58cae
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p25g2000hsf.googlegroups.com!not-for-mail
From: spamhog <n1jpr@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: voltage comparator for MOSFET driver in HF CW TX?
Date: Sat, 7 Jun 2008 09:14:18 -0700 (PDT)
Organization: http://groups.google.com
Lines: 5
Message-ID: <3b0d583c-2ca2-4fa2-a24f-060562bc8de6@p25g2000hsf.googlegroups.com>
References: <49921247-f01f-4054-924d-6205df5ddfde@b1g2000hsg.googlegroups.com>
     <6497944b-05b2-4de8-b016-4cdbf6d4301c@y21g2000hsf.googlegroups.com>
NNTP-Posting-Host: 213.140.6.109
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1212855258 13146 127.0.0.1 (7 Jun 2008 16:14:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 7 Jun 2008 16:14:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p25g2000hsf.googlegroups.com; posting-host=213.140.6.109;
     posting-account=tuTwjgoAAABgsw0HP7EbLMV3yMd8jh4C

User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.27 (Windows NT 5.1; U; en),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:135

Now I see my error w.r.t. class E: by moving the switching actions along the cycle you can't possibly time them for the [I=0, V=0] points.

Still ruminating on class D.

From -6770998708340505193
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!
attbi_s22.POSTED!53ab2750!not-for-mail
From: Erich <n6fd@mchsi.com>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Lead free solder , was : REMOVING ENAMEL COATING
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
     <7aerg5-09m.ln1@radagast.org> <f32ff7a4-40f7-4007-
b071-0c0b2507a5c3@2g2000hsn.googlegroups.com>
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<e0bdf3d7-33ad-4c3b-bfb0-b6e7e655f0b1@b1g2000hsg.googlegroups.com>
<5oednfu5BfU1jdTVnZ2dnUVZ8sijnZ2d@pipex.net>
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Content-Transfer-Encoding: 7bit
Lines: 10
Message-ID: <GSy2k.144122$TT4.14488@attbi_s22>
NNTP-Posting-Host: 12.219.242.16
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1212856870 12.219.242.16 (Sat, 07 Jun 2008 16:41:10 GMT)
NNTP-Posting-Date: Sat, 07 Jun 2008 16:41:10 GMT
Organization: AT&T ASP.att.net
Date: Sat, 07 Jun 2008 16:41:10 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:136

One of the biggest problems I have with the lead free solder is that over time it tends to grow tin whiskers. Then it shorts out to adjacent pads. Current reliability requirements are to encapsulate all the solder joints with epoxy. This is painful and really causes problems with rework.

No-lead; a feel-good solution to a non-problem.

Erich N6FD

```
From 6356598548801590559
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s33g2000pri.googlegroups.com!not-for-
mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Sat, 7 Jun 2008 13:05:21 -0700 (PDT)
Organization: http://groups.google.com
Lines: 269
Message-ID: <2654f6b2-2faf-4747-875d-67915226407b@s33g2000pri.googlegroups.com>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
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     spider-ntc-ta04.proxy.aol.com[CFC87004] (Prism/1.2.1), HTTP/1.1
     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:137
```

```
From: N2EY@aol.com on Thurs, Jun 5 2008 2:56 pm
>On Jun 2, 2:38 pm, Michael Coslo <m...@psu.edu> wrote:
>> N...@aol.com wrote:
>> > On May 29, 9:34?am, Michael Coslo <m...@psu.edu> wrote:
>> >> N...@aol.com wrote:
>> >>> On May 28, 8:03 am, gwatts <gwa...@frontiernet.net> wrote:
>> >>>> AF6AY wrote:
```

>> >> OTOH, the little bottle of Strip-X with it's foul stench is probably not
>> >> going to cause anyone harm outside of self inflicted (i.e. suicide
>> >> attempts)
>>
>> > But it *is* dangerous stuff, and should have adequate warnings,
>> > shouldn't it?
>>
>> There's my magnitude issue. I'm in no way implying that there be no
>> warning on the bottles. I am implying that it is a useful product, and
>> legislating it out of existence, or just making it too much trouble for
>> a company to produce is not a good thing.
>
>Something just occurred to me.
>
>We don't *know* that Strip-X was discontinued because of health/safety/
>environmental/"do-gooder" issues. That's pure speculation.

Sigh...so written communication from the manufacturer is 'no good?!?'

Oh, yes, it must be so. "Southgate Radio" (that big, big maker of radios) hasn't issued a Proclamation yet to 'confirm' the fact.

>It's quite possible - in fact, probable - that the reason Strip-X was
>discontinued was lack of sales.

No one seems to have checked out General Cement and its line of products. They've been in business for over 75 years, have regular product displays and stocks at NON-ham electronics stores. Many of those products have LOW sales rates. Their original product, an acetate-based cement (originally intended to repair paper speaker cones) is still in the current catalog (but under a different product number than the original). Who 'repairs speaker cones' these days? One can expect them to carry it for nothing other than sentimental or nostalgic reasons given that there are MANY kinds of cements available in NON-electronic stores that could do the job as easy and probably better. It is, as acetate-based, no different than hobby cements such as 'Testors Cement' also made in the same city by by Testor Chemical Company (also still in business for about the same time). It is incredibly cheap to produce, costing no more than the original LEAD-based tube both used to come in. Yes, youngsters, Testors Cement and GC chemicals and every toothpaste made by anyone once came in LEAD tubes! [horrors! contamination!]

One thing that you youngsters ASSUME is that insulation on magnet wire has ALWAYS been the same to this day. Not true, but it is impossible to tell some of the middle-aged knowitalls so (they passed a code test in their teen years and have been extra class a long time...harumpphhh).

At the introduction of 'wire-wrap' techniques (both in telco infrastructure and in prototype digital PCB card construction), roughly around the beginning 1960s, magnet wire manufacturers were beginning to use LOWER-TEMPERATURE-MELTING insulation of various kinds. "Solder-Eze" is one brand name that was very successful...there are dozens of others. Look in any Kings, Times or Belden full catalog.

PVC (PolyVinylChloride) insulation has been used on wire at the end of WWII. PVC has a low melting point (relatively speaking). MIL-W- specs of nylon-jacketed PVC wire was standard US military wire in aircraft of the late 1940s. The nylon jacket adds resistance to abrasion and has a higher melting point. Relatively easy to mechanically strip nylon-jacketed PVC and it does not 'collapse' from melting if soldered too long using manual wiring. With petroleum more abundant after WWII, other polymers were developed and used, notably Teflon (TetraFlouroethylene) which was relatively indestructable compared to predecessor insulations.

Hughes Aircraft Company El Segundo Division (made radars and fire control systems for military aircraft) had surplus nylon-jacketed PVC wire at their employee's store. I used some of that to nearly-completely rewire the electrical system of my restored 1953 Austin-Healey sports car in 1958. Much better wire than the cotton-cloth covered gutta percha insulation of the original English wiring.

>After all, the *professionals* use
>solder pots, not chemicals. Amateurs who are in the know use solder
>pots, or a solder blob.

REAL "amateurs who are in the know" got their materials experience IN the electronics INDUSTRY. Especially those who who were involved in materials testing and design of both electronic and physical construction.

By the way, this "Southgate Radio" you keep mentioning doesn't seem to exist as anything but the name of a store up in Canada. There IS a Southgate Amateur Radio Club in the Southgate section of London, England...but their website doesn't seem to have much on magnet wire stripping techniques. Lots of new solid-state radio information there for radio amateurs, though.

>I suspect that the market for Strip-X was so small it wasn't worth
>producing any more.

SPECULATION! SPECULATION! When did the 'radio manufacturer' from 'Southgate Radio' ever visit GC or get a PROFESSIONAL chemical lab to analyze what was in there? BTW, how many radios does 'Southgate Radio' make each year?

>> We do have a system that is pretty good. The MSDS reports are pretty
>> slick and non-sensational.
>>
>> Of course, they won't fit on that little bottle! 8^)
>

>And folks have to read them and understand them.

Go to any food market in the USA to see lots of BIG labels of contents, percentages, and FDA information on EVERY packaged food product.

>> I'd rather read that than something about what "The state of California
>> knows" you know, those strange postings beside gasoline pumps? This
>> product is know to the State of California as a carcinogen" type stuff.
>>
>> I wonder how many people called up the state of California to talk about
>> that?
>
>bwaahaahaaa

Tsk, tsk, easterners back in PA making fun of the most populous state in the USA...and once the capital of the aerospace industry in the USA. It is also the state with the MOST licensed radio amateurs in the USA.

>> > What does "do-gooder done did too much with all those warnings and
>> > attempts to protect us all from everything."
>> > really mean? Are there too many warnings on dangerous chemicals?
>>
>> I don't mind the warnings too much as long as they are not stupid
>> warnings. What I do mind is when a useful product goes away.
>
>But as I wrote, we don't *know* that such things got rid of Strip-X. I
>say it was solder pots.

If you DO say that, then you are NOT an "amateur in the know."

LOWER TEMPERATURE magnet wire insulation used in the electronics industry enabled newer techniques of stripping insulation and the use of 'melting by solder pot' VERY SMALL VOLUME production technique...or connections by mechanical means that both broke through insulation and made electrical connection. The "push-down" rapid connection system for telcos is an example. Much, much quicker to do, less labor intensive. Look at many of the multiple-wire cable connectors that use a mechanical crimping system to join every wire at once and also make an electrical connection.

The predominant method of stripping magnet wire in the electronics industry is the abrasive brush method which ALSO works for small gauge insulated conventional wire. They don't fool around with labor-intensive, one-of-a-kind techniques of construction used by hobbyists.

Manufacturers of electric motors might use propane gas torches to BURN off stator windings' magnet wire, heating it enough to bare the copper and to solder to it in one operation. Same thing for some (but not all) rotor windings. Electrical motor makers use magent wire by the MILE and make them at relatively low cost...and for very long life in high-torque AC powered applications.

>The "known to California" jargon means such controlled studies have
>been done.

Spoken by Pennsylvanians without ever once doing any 'controlled studies' of any subject involving California. Sigh...

>> For me at least, the comparison of mechanical with chemical issues is a
>> little hard to work.
>
>Why? It's the same concept: reduction of avoidable risk.
>
>The point is that the *professionals* who made the cars resisted
>safety improvements that we now take for granted.

AFTER a whole bunch of litigious actions by those who were trying to make personal profit via civil suits.

As an AMATEUR about automobiles, I put seat belts in the 2-door Plymouth I came out west back in 1956. Bought a kit in 1957, put them in the front seats myself. Did that with my restored Austin-Healey, too. Made SENSE to do so...even though never involved in any collision or 'roll-over.' The 1961 Chevy Impala convertible that followed had seat belts already installed.

Aren't we talking WAY OFF the subject of WIRE STRIPPING here and about times that few of you actually LIVED and EXPERIENCED?

>> On the other hand, I've silvered my telescope mirrors in my garage. This
>> involves a litany of nasty stuff, from Silver nitrate to potassium
>> hydroxide to nitric acid. (now that stuff is scary) And oddly enough,
>> sucrose and citric acid. I'd hate to be not allowed to do such things
>> because someone thought I might get hurt.
>
>Hydroflouric acid is *really* nasty.
>
>The Big Issue IMHO is whether a dangerous process can be made safer.
>Is there a safer way to silver a telescope mirror?

Yes, there is, and it results in a mirror with fewer optical aberrations on its surface. It is deposition of metal (usually aluminum) in a vacuum. My lead-man at EOS, Doug McFarland, was an amateur telescope maker (and licensed radio amateur) and got his mirrors 'silvered' that way for his 6 and 10 inch refractors.

>There *is* a safer way to remove enamel from wire, and you get the
>added bonus of a tinned wire. Why use a chemical at all?

Try stripping some #42 enameled magnet wire made around 1950 by 'solder pot' or abrasive techniques and the end product will not be very good. That old enamel covering will harden with time. CHEMICAL means to loosen the enamel WITHOUT any copper damage is the COMMON SENSE approach to getting an electrical connection. It is fast, inexpensive, and, IF USED WITH APPROPRIATE CAUTION, safe enough in an enivornment that is FULL of MANY DANGERS.

Do you wear thermal-insulating mittens or gloves when handling a soldering iron? YOU SHOULD...IT IS 'GOOD FOR YOU.' Soldering irons operate at tip temperatures high enough to inflict very serior BURNS on the skin.

Do you inhale fumes from rosin flux while soldering? DON'T DO IT, WEAR SELF-CONTAINED BREATHING APPARATUS! 'IT'S GOOD FOR YOU!' Who knows what other FUMES are given off when soldering? Has anyone done 'controlled tests of human dangers' from that? Better hurry up to catch up with the DO-GOODERS!

Do you wear PROTECTIVE GLASSES when drilling wood or metal? BETTER DO THAT! 'IT IS GOOD FOR YOU!' Who knows when you get clumsy and don't hold the work tight and pieces fly off, possibly impacting your precious EYES! Ya gots to have PROTECTIVE EYEGLASSES!

Do you wear self-contained breathing appartus when spraying paint? BETTER DO IT, 'IT IS GOOD FOR YOU!' All that toluene and acetone and other DANGEROUS hydrocarbon compounds are set free and will CONTAMINATE YOU AND THE ENTIRE PLANET!

Do you wear protective gloves when working with sheet metal or any substance that can make a sharp edge that would PIERCE YOUR SKIN? BETTER DO IT, IT IS GOOD FOR YOU! We can't have you in GREAT DANGER from open wound infections!

Oh, oh, oh, THE WORLD IS FULL OF *DANGERS*! Protect yourself from EVERYTHING that might, possibly, maybe damage your precious body...or neighborhood...or city...or the planet. DON'T DO ANYTHING. Just sit at your computer (with non-CRT flat-screen display so you won't be in danger of X-RAYS from those old CRT displays) and make Do-Gooder noises...especially to those of us who spent a lifetime IN the electronics industry.

Keep your 'Southgate Radio' company SAFE.

AF6AY

From 5990288561341250035
X-Google-Thread: fc2a5,22c75f654cc38996

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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!k30g2000hse.googlegroups.com!not-for-
mail
From: Mike Silva <snarflemike@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Lead free solder , was : REMOVING ENAMEL COATING
Date: Sat, 7 Jun 2008 16:51:06 -0700 (PDT)
Organization: http://groups.google.com
Lines: 15
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
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1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:138

On Jun 7, 12:41=A0pm, Erich <n...@mchsi.com> wrote:
> One of the biggest problems I have with the lead free solder is that
> over time it tends to grow tin whiskers. =A0Then it shorts out to adjacent=

> pads. =A0Current reliability requirements are to encapsulate all the
> solder joints with epoxy. =A0This is painful and really causes problems
> with rework.
>
> No-lead; a feel-good solution to a non-problem.
>
> Erich N6FD

http://nepp.nasa.gov/WHISKER/ (check out the photo gallery)

Wonder if the EU is going to pick up the eventual world-wide tab?
```

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From -5442743954185265986
X-Google-Thread: fc2a5,99f7e2a258ee5b59,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
25g2000hsx.googlegroups.com!not-for-mail
From: "bill.meara@gmail.com" <bill.meara@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SolderSmoke Podcast 85
Date: Sat, 7 Jun 2008 23:59:14 -0700 (PDT)
Organization: http://groups.google.com
Lines: 57
Message-ID: <21199019-9187-44df-b2c6-96a1294af3f2@25g2000hsx.googlegroups.com>
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Content-Transfer-Encoding: 7bit
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NNTP-Posting-Date: Sun, 8 Jun 2008 06:59:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 25g2000hsx.googlegroups.com; posting-host=81.208.83.208;
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X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:139
```

SolderSmoke!
A SHOW FOR ELECTRONICS HOMEBREWERS!

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Listen at: http://www.soldersmoke.com

SolderSmoke #85

June 8, 2008

Echo-QSO with WA6ARA!
Phoenix lands on Mars.
Beacon operations.
Adrian Weiss, W0RSP. FB QRP Author.
Need correspondent for Flea at MIT.
Understanding balanced modulators.
Dan's accident (Dan's Small Parts).
Hendricks Cap Kit.
"Hot Iron" Journal of The Constructor's Club
The Woodpecker.
MAILBAG (Return of the GONG!):
W6DWF

KC0PEI on "IP Telepathy"
Mark Z on a crank-up Pocket Pixie.
Ramakrishnan in Singapore.
Niels PE1OIT on Robert E. Pease.
Jerry NR5A: Cursed with Beacon Madness.
Echolink QSO with Mike, WA6ARA.

Tired of listening to Black Sabbath or Wagner on your I-Pod? Wouldn't you like to be able to carry with you the kinds of ham radio conversations that you listen to while in your radio shack? Tune in to SolderSmoke!

RSS FEED: You can subscribe to the program, have them downloaded to your MP-3 player, and listen to them at your convenience. To subscribe, just cut and paste this URL into your I-poder (or similar) software.
http://www.soldersmoke.com/soldersmoke.rss

If you don't have an MP3 player you can just go to the site below and listen to the latest program (and earlier editions) using the audio software on your computer.

http://www.soldersmoke.com

All the programs are available here.

I hope you enjoy the program. Please send us feedback.

73 from Rome
Bill M0HBR N2CQR CU2JL
http://www.gadgeteer.us

From -4018648733113979227
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
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From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Lead free solder , was : REMOVING ENAMEL COATING
Date: Sun, 8 Jun 2008 06:07:56 -0700 (PDT)
Organization: http://groups.google.com
Lines: 20
Message-ID: <20426597-294b-4fb6-af8c-db0ab8823c54@k37g2000hsf.googlegroups.com>
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<GSy2k.144122$TT4.14488@attbi_s22>
NNTP-Posting-Host: 64.12.117.200
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1212930476 6411 127.0.0.1 (8 Jun 2008 13:07:56 GMT)
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NNTP-Posting-Date: Sun, 8 Jun 2008 13:07:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k37g2000hsf.googlegroups.com; posting-host=64.12.117.200;
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
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Xref: g2news1.google.com rec.radio.amateur.homebrew:140

On Jun 7, 12:41=EF=BF=BDpm, Erich <n...@mchsi.com> wrote:
> One of the biggest problems I have with the lead free solder is that
> over time it tends to grow tin whiskers. =EF=BF=BDThen it shorts out to ad=
jacent
> pads. =EF=BF=BDCurrent reliability requirements are to encapsulate all the=

> solder joints with epoxy. =EF=BF=BDThis is painful and really causes probl=
ems
> with rework.

Perhaps the idea is to eliminate rework and repair. Remember the
slogan "Ending is better than mending"?

> No-lead; a feel-good solution to a non-problem.

I disagree!

I think it's the wrong solution to real problem.

73 de Jim, N2EY


From -5018627085812698034
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!k30g2000hse.googlegroups.com!not-for-
mail
From: N2EY@aol.com
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Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Sun, 8 Jun 2008 06:16:15 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <d0d9d392-5ad5-4f39-a25e-1e2309e68036@k30g2000hse.googlegroups.com>
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     <7aerg5-09m.ln1@radagast.org> <f32ff7a4-40f7-4007-b071-0c0b2507a5c3@2g2000hsn.googlegroups.com>
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1212930976 7993 127.0.0.1 (8 Jun 2008 13:16:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 8 Jun 2008 13:16:16 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k30g2000hse.googlegroups.com; posting-host=64.12.117.200;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows 98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-mtc-te08.proxy.aol.com[400C7088] (Prism/1.2.1),
     HTTP/1.1 cache-mtc-ah08.proxy.aol.com[400C75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:141

On Jun 7, 10:25=EF=BF=BDam, Jim Adney <jad...@vwtype3.org> wrote:
> On Thu, 5 Jun 2008 14:56:07 -0700 (PDT) N...@aol.com wrote:
>
> >How ironic is it that a major rework of a car's electronics will be
> >done to eliminate a few ounces of lead-tin solder, while the car's
> >battery contains many pounds of lead and acid?
>
> I think you'll find that auto batteries are already VERY commonly
> recycled, for exactly this reason.

Here in Pennsylvania, there's a "core charge" ($7? might have gone up) if you try to buy a new car battery without an old one to trade in. Besides being an incentive to recycle, it gives the auto-parts folks a chance to put the old battery alongside the new one and make sure it's the right size.

But the main point is this: Not all car batteries are recycled; some do get into the waste stream. The same is true of other lead-acid and ni-cad cells (cadmium is a heavy metal, too). Yet those things are not outlawed. Instead, recycling and education programs are set up to keep the lead, cadmium and acid out of the environment.

IMHO, such recycling for discarded electronics is a better solution
than banning lead-tin solder.

73 de Jim, N2EY

From -5937605678565877607
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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NNTP-Posting-Date: Sun, 08 Jun 2008 09:03:13 -0500
From: LRKSFAG <LRKSFAG.2919c0d@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Sun, 8 Jun 2008 12:02:11 +0100
Message-ID: <LRKSFAG.2919c0d@radiobanter.com>
Organization: RadioBanter.com
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
<jZX1k.2010$nD3.912@newsfe15.lga> <57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
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Sy2jcgSeysdpTzDHlhmusS5xocpDicDsp95vkZKyrlqjDmTPsmfl0PbLbxgKixG5iTqCL/CZxZfC!hHVO
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Lines: 1
Xref: g2news1.google.com rec.radio.amateur.homebrew:142

Brother's great, I top you and I are also top-Jin top&#12290;'ASAHI'
(http://www.nsk2008.cn/see/247.html)'IJK'
(http://www.nsk2008.cn/see/249.html)'THK'
(http://www.nsk2008.cn/see/248.html)'KOYO'
(http://www.nsk2008.cn/see/246.html)

--
LRKSFAG

From 8356431949232571498

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Path: g2news1.google.com!postnews.google.com!a32g2000prf.googlegroups.com!not-for-
mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Lead free solder , was : REMOVING ENAMEL COATING
Date: Sun, 8 Jun 2008 10:46:32 -0700 (PDT)
Organization: http://groups.google.com
Lines: 87
Message-ID: <1ec8d1b4-5099-41e5-a36d-89c383f01fb1@a32g2000prf.googlegroups.com>
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     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:143

On Jun 7, 4:51=EF=BF=BDpm, Mike Silva <snarflem...@yahoo.com> wrote:
> On Jun 7, 12:41=EF=BF=BDpm, Erich <n...@mchsi.com> wrote:
>
> > One of the biggest problems I have with the lead free solder is that
> > over time it tends to grow tin whiskers. =EF=BF=BDThen it shorts out to =
adjacent
> > pads. =EF=BF=BDCurrent reliability requirements are to encapsulate all t=
he
> > solder joints with epoxy. =EF=BF=BDThis is painful and really causes pro=
blems
```

> > with rework.
>
> > No-lead; a feel-good solution to a non-problem.
>
> > Erich N6FD
>
> http://nepp.nasa.gov/WHISKER/(check out the photo gallery)
>
> Wonder if the EU is going to pick up the eventual world-wide tab?

EU doesn't have to. RoHS (Reduction of Hazardous Substances) is an in-country (European) specification that covers a LOT of different substances. In one way RoHS is no different than the FCC specification that forbids MARKETING of receivers than can listen to cellular telephone frequencies...or the way older specification that stated TV sets sold in the USA must be capable of tuning in UHF TV channels...or the FCC specification about linear RF amplifiers that can cover CB that aren't allowed to be sold IN the USA.

RoHS is NOT an international specification. Manufacturers who sell ONLY in the USA and don't care to enter the European (or RoHS-member) markets aren't obliged in any way to obey RoHS standards. USA DoD contracts on electronics can use lead-bearing solders, no problem.

NASA used CONFORMAL COATINGS or encapsulation on spacecraft electronics in the beginning of the 1960s. NOT for any sort of 'tin-whisker' problems but for the fact that microgravity environments all all kinds of small or large junk to float around freely. It MIGHT be that some teeny conductive junk could short out traces on a PCB in space. Hardly likely in an earth environment with gravity all the time. Those same conformal coatings were later found to inhibit the growth of CERTAIN metal whiskers (tin is not the only one). Except for one potting compound allowed back in the 1960s, such coatings and pottings were not epoxoids. The others were closer to offshoots of silicone elastomers and could be reworked.

There are all sorts of coating compounds available now. Emerson & Cuming built their long-running business of providing all kinds of polymer compounds for the electronics industry. Those aren't cheap. No such products are.

"Tin whisker" problems take a LONG time to show up. Usually it takes a half year for the first such whiskers' start to become visible under

100x magnification. Repeated heating-cooling tends to hasten such growth (of a sort of crystaline form of tin) but such studies aren't quite complete yet. But, once started, the growth can accelerate. Even that is not speedy.

Thanks to MARKETING folks, there has been a lot of hysteria about this "tin-whisker" thing generated and picked up by all who have no experience in such things. A conformal coating will inhibt whisker growth. Even an ordinary varnish used on wood surfaces. I'd avoid the green 'solder-mask' stuff found on PCB assemblies which are used to prevent excess solder during wave- and reflow-soldering; it is tough stuff and much harder to remove if put on soldered pads/lands via additional coatings. I'd avoid lacquers because they leave a lot of stubborn ash behind if one MUST 'rework' something...despite their easy application and quick drying time and nice appearance after application.

73, Len AF6AY

```
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mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: removing enamel
Date: Sun, 8 Jun 2008 11:00:14 -0700 (PDT)
Organization: http://groups.google.com
Lines: 28
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Xref: g2news1.google.com rec.radio.amateur.homebrew:144

On Jun 5, 6:19=EF=BF=BDam, Telstar Electronics <briangrif...@sbcglobal.net>
wrote:
> On Jun 4, 5:46=EF=BF=BDpm, "W3CQH" <hsgor...@comcast.net> wrote:
>
> > Thanks to all who responded to the question, with all of your expertise =
and
> > comments.
>
> > Best 73's, =EF=BF=BDit turned out to be a very interesting thread.
>
> http://www.eraser.com/catpdf.cgi/Magnet.pdf?mode=3Ddownload&catpdf_id=3D11=


Seen those in action.  But, be prepared for significant STICKER SHOCK
if you
want to buy one.  Get Eraser's Price List for some knock-yer-socks-off
costs.

Compare that to a $3 bottle of Strip-X from GC two decades ago...which
could last a HOBBYIST for a decade.

This forum is for HOBBYISTS, not manufacturers.  If I want to use
abrasive methods of removing magnet wire coatings, I'll just rip off a
quarter of a small square of emery finishing paper (used in painting
furniture) and use that for a couple of months of intense coil
building.  Costs maybe a dime for that.

73, Len  AF6AY


From -5754096543636602924
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nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
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Date: Sun, 08 Jun 2008 21:37:25 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Lead free solder , was : REMOVING ENAMEL COATING
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:145
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> Whether it's viable depends on the rules. Here in the USA, a number of
> states require a deposit (usually five cents) on beverage containers.
> That deposit is typically far more than the intrinsic worth of the
> metal, glass or plasti in the container, but that's not the point.
> Instead, the deposit makes it worthwhile to collect and recycle the
> containers, keeping them out of the trash stream and reducing litter.
> Why couldn't there be such a deposit on electronics?

=======================================

In the Netherlands and other EU countries all electrical goods are subjected to a 'prepaid removal fee' This variable fee is payable on purchase ,be it an electric toothbrush ,a microwave oven or a TV set ,computer ,printer etc. It means that upon disposal the unit can be taken to any retailer who is obliged to dispose of the equipment in a responsible way(recycle yard)

Also spent alkaline,Nicad,NiMH ,any type of battery can be put in a container at any retailer including supermarkets who are selling these batteries , even if you do not intend to buy batteries at that time.

In the UK they are lagging behind with these measures.

Frank   GM0CSZ / KN6WH

From 5176316350176352777

X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!z72g2000hsb.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Lead free solder , was : REMOVING ENAMEL COATING
Date: Sun, 8 Jun 2008 15:44:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 51
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HTTP/1.1 cache-mtc-ah08.proxy.aol.com[400C75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:146

On Jun 8, 4:37=EF=BF=BDpm, Highland Ham <abcgm0csz.kn6wh...@dsl.pipex.com>
wrote:
(N2EY wrote):
> > Here in the USA, a number of states require a
> > deposit (usually five cents) on beverage containers.
> > That deposit is typically far more than the intrinsic worth of the
> > metal, glass or plasti in the container, but that's not the point.
> > Instead, the deposit makes it worthwhile to collect and
> > recycle the
> > containers, keeping them out of the trash stream and
> > reducing litter.
> > Why couldn't there be such a deposit on electronics?

> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
> In the Netherlands and other EU countries all electrical goods are
> subjected to a 'prepaid removal fee' =EF=BF=BDThis variable fee is
> payable on
> purchase ,be it an electric toothbrush ,a microwave oven
> or a TV set
> ,computer ,printer etc. It means that upon disposal the unit
> can be
> taken to any retailer who is obliged to dispose of the
> equipment in a
> responsible way(recycle yard)
>
> Also spent alkaline,Nicad,NiMH ,any type of battery
> can be put in a
> container at any retailer including supermarkets who
> are selling these
> batteries , even if you do not intend to buy batteries at that time.

That's close to what I'm talking about. Seems to me that's a better
solution than demanding no lead-containing solder.

> In the UK they are lagging behind with these measures.

Here in the USA, some retailers (Home Depot, Staples, Pep Boys)
have done similar things for batteries, motor oil, printer cartridges,
compact flourescent lamps, cell phones and some other items.
In some cases
it's a government regulation, in others it's a way to get you into
the store, and in others it's just a desire to do the right thing
rather
than being forced to do it.

The idea of building in the disposal cost up-front is a good one,
IMHO, because it reveals the true cost of the item, not just the
immediate cost.

73 de Jim, N2EY

From -5144765911413358585
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!w7g2000hsa.googlegroups.com!not-for-mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Mon, 9 Jun 2008 06:25:33 -0700 (PDT)

Organization: http://groups.google.com
Lines: 34
Message-ID: <86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
     <jZX1k.2010$nD3.912@newsfe15.lga>
<57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1213017933 4976 127.0.0.1 (9 Jun 2008 13:25:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 9 Jun 2008 13:25:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w7g2000hsa.googlegroups.com; posting-host=216.203.30.4;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.cb:545 rec.radio.amateur.equipment:160
rec.radio.amateur.homebrew:147

On Jun 6, 4:17=A0pm, james <geo...@washington.edu> wrote:
> On Thu, 5 Jun 2008 16:25:44 -0400, "Tio Pedro"
>
> <radioconnect...@cox.net> wrote:
>
> ||"Telstar Electronics" <briangrif...@sbcglobal.net> wrote in message
>
> |news:c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com...
> |> VoiceMax is really gaining momentum!
> |> Radio operators all over the world are enjoying the Voicemax
> |> advantage.
> |> Since VoiceMax doesn't use audio "clipping"... your audio is loud AND
> |> clear.
> |> What a concept!
> |>
> |> See what VoiceMax can do for you at
> |>http://www.telstar-electronics.com/voicemax.htm
> |
> |What is the dB advantage of this vs. RF clipping for SSB?
> |
> |
> |---------------------
>
> RF Clipping is superior to audio compression in SSB transmission. RF
> clipping will provide about 6dB improvement over audio compression
> alone.
>
> james

James is correct... that the RF clipping technique is somewhat more
effective. What he fails to mention is that it's more complex... and

not easily installed into an existing radio. RF clipping also
exihibits substantially more distortion. The VoiceMax installs
easily... and provides tangible results.

From -6560246577915433366
X-Google-Thread: fc2a5,f488dabb2c703167,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
news.astraweb.com!border2.a.newsrouter.astraweb.com!news.netcologne.de!newsfeed-
hp3.netcologne.de!newsfeed101.telia.com!nf02.dk.telia.net!newspeer2.se.telia.net!
se.telia.net!masternews.telia.net.!newsb.telia.net.POSTED!not-for-mail
From: "Harry Lippitz" <johnsmith@micro$oft.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SM0VPO Homepage update
Lines: 83
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <RCc3k.8307$R_4.6750@newsb.telia.net>
Date: Mon, 09 Jun 2008 16:11:29 GMT
NNTP-Posting-Host: 81.227.200.86
X-Complaints-To: abuse@telia.com
X-Trace: newsb.telia.net 1213027889 81.227.200.86 (Mon, 09 Jun 2008 18:11:29 CEST)
NNTP-Posting-Date: Mon, 09 Jun 2008 18:11:29 CEST
Organization: Telia Internet
Xref: g2news1.google.com rec.radio.amateur.homebrew:148

Hi all,

I have documented about 250 of my hamradio (and other)
projects, from antennas, filters, control, transmitters,
receivers, and ...... loads more.

Harry's Homebrew Homepages are to be found at:
http://web.telia.com/~u85920178/
    1) Select subject area (eg. projects), at the top of the screen
    2) select the type of project (TX, TX, PSU, etc).
    3) choose a project from the left panel.

Latest projects are:

DIY Transformers
http://web.telia.com/~u85920178/power/diy_transformers.htm
(G�r-det-sj�lv transformat�rer)
Yes, I have found a source of re-windable transformers, and they are CHEAP.
Here is how you re-wind them.

Diode Switching Basics
http://web.telia.com/~u85920178/data/diode_switching_01.htm

Practical info and ideas using the diode as a switch:
- Signal switch
- Wide-range VCO
- Diode-switched intercom
- RF TX/RX switching

(Currently being translated into Svenska som artikel f�r SSAs tidningen QTC)

Other projects include:

7dB Colinear Antenna for VHF
http://web.telia.com/~u85920178/antennas/7db-colinear.htm
Colinear antenna for 145MHz. 10dB more than my old 1/4-wave.

Alternative power:
http://web.telia.com/~u85920178/power/invert1_00.htm
How to generate high power AC, from 50 Watts to 8kW

Simple receivers.
http://web.telia.com/~u85920178/rx/regen2.htm
Ideal for the novice, or people like me who just love 'em

TV transmitter:
http://web.telia.com/~u85920178/tx/tv_tx_02.htm
One boxer - one TV chanel shared with neighbours
10 neighbours = 10 channels, and still only one box per house
(only illegal to get caught)

Need 6.3vAC + 250vDC for that valve rig?
http://web.telia.com/~u85920178/use/tubepsu.htm
All uses readily available components

Want a valve rig?
TX = http://web.telia.com/~u85920178/tx/2tubetx.htm
RX = http://web.telia.com/~u85920178/rx/tube-rx.htm

Educational:
Synthesiser basics = http://web.telia.com/~u85920178/conv/syn-info.htm
Synthesiser trainer = http://web.telia.com/~u85920178/use/synth-00.htm

Got some EPROMs?
Make ae EPROM burner = http://web.telia.com/~u85920178/eprom/eprom-01.htm
AF Sine generator = http://web.telia.com/~u85920178/eprom/epromosc.htm

R/C Models:
http://web.telia.com/~u85920178/use/rc_enc_02.htm
Analogue cntrol unit, up to 9 proportional channels
(Even via 2m, GSM, 446MHz, 433MHz, etc)

These were just a few examples of the projects available. Currently building a 50pf + 50pf + 50pf variable capacitor for a new HF receiver. Uses PCBs. PCB foil patterns given for most projects at http://web.telia.com/~u85930032/. Sorry, no software for my homebrew computer at http://web.telia.com/~u85920178/use/analcom.htm

```
Best regards from Harry
oeieio@hotmail.com
```

```
From 4976080688276385098
X-Google-Thread: fc2a5,f488dabb2c703167
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
txtfeed1.tudelft.nl!tudelft.nl!binfeed2.tudelft.nl!newspeer1.se.telia.net!
se.telia.net!masternews.telia.net.!newsb.telia.net.POSTED!not-for-mail
From: "Harry Lippitz" <johnsmith@micro$oft.com>
Newsgroups: rec.radio.amateur.homebrew
References: <RCc3k.8307$R_4.6750@newsb.telia.net>
Subject: PS: SM0VPO Homepage update
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <pEc3k.8308$R_4.6786@newsb.telia.net>
Date: Mon, 09 Jun 2008 16:13:09 GMT
NNTP-Posting-Host: 81.227.200.86
X-Complaints-To: abuse@telia.com
X-Trace: newsb.telia.net 1213027989 81.227.200.86 (Mon, 09 Jun 2008 18:13:09 CEST)
NNTP-Posting-Date: Mon, 09 Jun 2008 18:13:09 CEST
Organization: Telia Internet
Xref: g2news1.google.com rec.radio.amateur.homebrew:149

No membership fees
No software installation
No registration
No age limit

BR H
```

```
From 1184220845239700942
X-Google-Thread: fc2a5,fcd764c61a416db4,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
```

NNTP-Posting-Date: Mon, 09 Jun 2008 11:25:19 -0500
Date: Mon, 09 Jun 2008 09:25:17 -0700
From: Gary <gbelcas@comcast.net>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: WA2EBY MOSFET amp
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <fMCdnSqUW7nyxNDVnZ2dnUVZ_vqdnZ2d@comcast.com>
Lines: 8
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 67.170.123.87
X-Trace: sv3-NBsgqyapL/
fcVSK1cV+Ah9WCvAgXlxGj2z96kVQ2KFgoFMPP7N2PqwcurINUmBcQZqFuhFOSa2zICoH!
GNjz24zyaczkCfpTpNi6xnwo9K7+1ZDikopD9nGIIs/bvltt0h/pH6ZeYX3QKqDW5hK8yYRIoyAI!
t5Yds8T/Y5v1v/w1dOJZEWYNZQYE8g==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:150

I came across Mike Dossor's mosfet hf amp in the 3/99 QST and am interested in using it as part of a mobile psk station. Anyone out there built this? Specifically, I'm looking for substitutes for the heatsink which is apparently no longer available and generally any hints, tips, gotchas... Thanks in advance.

gary

From 1945394377237289391
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d45g2000hsc.googlegroups.com!not-for-mail
From: cmdr buzz corey <cmdr-buzz-corey@mailcity.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Mon, 9 Jun 2008 16:53:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 6
Message-ID: <a409a457-1ce2-44f9-99f7-c7328b8c1d55@d45g2000hsc.googlegroups.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
<jZX1k.2010$nD3.912@newsfe15.lga>
<57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>

```
     <86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
NNTP-Posting-Host: 97.112.140.28
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1213055631 20445 127.0.0.1 (9 Jun 2008 23:53:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 9 Jun 2008 23:53:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d45g2000hsc.googlegroups.com; posting-host=97.112.140.28;
     posting-account=HJ9iyAoAAAAfGCc0rQlblmrdTKl_8J7N
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.14)
     Gecko/20061201 Firefox/2.0.0.14 (Ubuntu-feisty),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.cb:554 rec.radio.amateur.equipment:162
rec.radio.amateur.homebrew:151

On Jun 9, 7:25 am, Telstar Electronics <briangrif...@sbcglobal.net>
wrote:
> The VoiceMax installs
> easily... and provides tangible results.

Lots of splatter immediately upon installation.



From 3199167299039826284
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!34g2000hsh.googlegroups.com!not-for-
mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Tue, 10 Jun 2008 04:54:07 -0700 (PDT)
Organization: http://groups.google.com
Lines: 13
Message-ID: <764dffe2-e6e0-46d4-9031-cd6ba5cf848e@34g2000hsh.googlegroups.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
     <jZX1k.2010$nD3.912@newsfe15.lga>
<57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
     <86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
     <a409a457-1ce2-44f9-99f7-c7328b8c1d55@d45g2000hsc.googlegroups.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1213098847 18493 127.0.0.1 (10 Jun 2008 11:54:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 10 Jun 2008 11:54:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
```

```
Injection-Info: 34g2000hsh.googlegroups.com; posting-host=216.203.30.4;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.cb:561 rec.radio.amateur.equipment:163
rec.radio.amateur.homebrew:152

On Jun 9, 6:53=A0pm, cmdr buzz corey <cmdr-buzz-co...@mailcity.com>
wrote:
> On Jun 9, 7:25 am, Telstar Electronics <briangrif...@sbcglobal.net>
> wrote:
>
> > The VoiceMax installs
> > easily... and provides tangible results.
>
> Lots of splatter immediately upon installation.

Actually, if adjusted correctly... no splatter... and 100% constant
modulation.
www.telstar-electronics.com



From 1603176605471975682
X-Google-Thread: fc2a5,f07dac25cf973098
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!l64g2000hse.googlegroups.com!not-for-
mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: removing enamel
Date: Tue, 10 Jun 2008 05:04:41 -0700 (PDT)
Organization: http://groups.google.com
Lines: 35
Message-ID: <edcc21e5-66c9-47e0-87f7-3685356d5e42@l64g2000hse.googlegroups.com>
References: <xdWdnSgRAPnchtrVnZ2dnUVZ_tHinZ2d@comcast.com>
     <66863399-ead2-4e6a-95c2-e8f4d4d7b06f@k37g2000hsf.googlegroups.com>
     <3ee78e5f-32ba-489c-a940-a602a0ba4965@l28g2000prd.googlegroups.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1213099482 25263 127.0.0.1 (10 Jun 2008 12:04:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 10 Jun 2008 12:04:42 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l64g2000hse.googlegroups.com; posting-host=216.203.30.4;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:153
```

```
On Jun 8, 1:00=C2=A0pm, AF6AY <LenAnder...@ieee.org> wrote:
> On Jun 5, 6:19=EF=BF=BDam, Telstar Electronics <briangrif...@sbcglobal.net=
>
> wrote:
>
> > On Jun 4, 5:46=EF=BF=BDpm, "W3CQH" <hsgor...@comcast.net> wrote:
>
> > > Thanks to all who responded to the question, with all of your expertis=
e and
> > > comments.
>
> > > Best 73's, =EF=BF=BDit turned out to be a very interesting thread.
>
> >http://www.eraser.com/catpdf.cgi/Magnet.pdf?mode=3Ddownload&catpdf_id=3D1=
1
>
> Seen those in action. =C2=A0But, be prepared for significant STICKER SHOCK=

> if you
> want to buy one. =C2=A0Get Eraser's Price List for some knock-yer-socks-of=
f
> costs.
>
> Compare that to a $3 bottle of Strip-X from GC two decades ago...which
> could last a HOBBYIST for a decade.
>
> This forum is for HOBBYISTS, not manufacturers. =C2=A0If I want to use
> abrasive methods of removing magnet wire coatings, I'll just rip off a
> quarter of a small square of emery finishing paper (used in painting
> furniture) and use that for a couple of months of intense coil
> building. =C2=A0Costs maybe a dime for that.
>
> 73, Len =C2=A0AF6AY

Stop being so cheap Len... and do it the right way... lol


From 8319760706898575682
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.earthlink.com!
news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 11 Jun 2008 08:44:16 -0500
From: james <george@washington.edu>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Wed, 11 Jun 2008 09:44:19 -0400
Reply-To: beerkeg@budu.edu
```

Message-ID: <i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
<jZX1k.2010$nD3.912@newsfe15.lga> <57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
<86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 49
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 72.91.132.89
X-Trace: sv3-SikfVNQWS7iQitW9Qy02MvZ7091imzmEAwSe/
6W4LikndSxobRoACX8iaLz7ZZjuGsHquuzBIYggohd!
Zic64Yexy1fhfUyIHBiq+nzp1kOnkQVenLkXlHXABO6+5NSEeI5It/wxOWyVVcnxhLcuHl/NwbIZ!
9KLsa9T2747DKJvEXoim
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.cb:565 rec.radio.amateur.equipment:172
rec.radio.amateur.homebrew:154

On Mon, 9 Jun 2008 06:25:33 -0700 (PDT), Telstar Electronics
<briangriffey@sbcglobal.net> wrote:

|On Jun 6, 4:17�pm, james <geo...@washington.edu> wrote:
|> On Thu, 5 Jun 2008 16:25:44 -0400, "Tio Pedro"
|>
|> <radioconnect...@cox.net> wrote:
|>
|> ||"Telstar Electronics" <briangrif...@sbcglobal.net> wrote in message
|>
|> |news:c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com...
|> |> VoiceMax is really gaining momentum!
|> |> Radio operators all over the world are enjoying the Voicemax
|> |> advantage.
|> |> Since VoiceMax doesn't use audio "clipping"... your audio is loud AND
|> |> clear.
|> |> What a concept!
|> |>
|> |> See what VoiceMax can do for you at
|> |>http://www.telstar-electronics.com/voicemax.htm
|> |
|> |What is the dB advantage of this vs. RF clipping for SSB?
|> |
|> |
|> |----------------------
|>
|> RF Clipping is superior to audio compression in SSB transmission. RF
|> clipping will provide about 6dB improvement over audio compression
|> alone.
|>
|> james

|
|James is correct... that the RF clipping technique is somewhat more
|effective. What he fails to mention is that it's more complex... and
|not easily installed into an existing radio. RF clipping also
|exihibits substantially more distortion. The VoiceMax installs
|easily... and provides tangible results.
|----------------

Actually as easy to design an RF Clipper as an audio compressor. True
it is a bit more difficult to install. Audio clippers can be external
to the transmitter and simpler to install and operate. A RF Clipper
will install as easily as your internal audio compressor.

Personally I would take RF clipping over Audio compression any day
with SSB transmissions. If the post filters are good in enough RF
clipping, there is not significant difference in distortion.

james

From -1323217269689401725
X-Google-Thread: fc2a5,75bf3540f812b9dc,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-
in-02.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-
nntp-05.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Causes of IF feedthru
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <4jU3k.209778$ng7.171642@en-nntp-05.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Wed, 11 Jun 2008 10:54:06 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:155

I've been playing around with some homebrew superhet radios, and I'm finding
that a significant amount of energy ends up at my 1st IF frequency that seems
to be coming from the LO. While I expect to see energy from LO+/-IF end up at
IF, of course, I've checked the LO+/-IF spurs (the LO is coming from a
PLL-based synthesizer), and in general it seems that a lot more energy ends up
at the IF than what the spurs alone would suggest. I remember a talk I
attended where the presenter mention that one of the biggest problems with
building receivers was "the LO getting into the IF," so I'm thinking this is

what he meant? Are there other less obvious paths for the LO getting into the
IF than just the LO+/-IF spurs?

The signal right at the IF eventually gets turned into DC and hence filtered
out, so in theory it doesn't really matter that much, but in practice with
very weak signals eventually the IF feedthru is stronger than the weak
signals, so it limits how much amplification I can provide and hence limits
the ultimate sensitivity of the receiver.

Thanks,
---Joel Koltner

From -4896024799644871265
X-Google-Thread: fc2a5,75bf3540f812b9dc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 11 Jun 2008 14:08:03 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Causes of IF feedthru
References: <4jU3k.209778$ng7.171642@en-nntp-05.dc1.easynews.com>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Wed, 11 Jun 2008 11:58:44 -0700
Message-ID: <4sj5i5-0no.ln1@radagast.org>
Lines: 67
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.159.209.148
X-Trace: sv3-gJ0Zzz01ohmfpLxmvaAVW3YrndqU/
xZN4frMDogU2ILpXnS6T1VzpURXyFxhxStvWgBtm+9r/KtKyK4!DYr2sS8QrySJQ7mM/
mJSTkojzbPBlPZqW68grVRSby7s15cKmZVTZftqCjEQyg==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:156

In article <4jU3k.209778$ng7.171642@en-nntp-05.dc1.easynews.com>,
Joel Koltner <zapwireDASHgroups@yahoo.com> wrote:

>that a significant amount of energy ends up at my 1st IF frequency that seems
>to be coming from the LO. While I expect to see energy from LO+/-IF end up at
>IF, of course, I've checked the LO+/-IF spurs (the LO is coming from a
>PLL-based synthesizer), and in general it seems that a lot more energy ends up
>at the IF than what the spurs alone would suggest. I remember a talk I
>attended where the presenter mention that one of the biggest problems with

>building receivers was "the LO getting into the IF," so I'm thinking this is
>what he meant? Are there other less obvious paths for the LO getting into the
>IF than just the LO+/-IF spurs?
>
>The signal right at the IF eventually gets turned into DC and hence filtered
>out, so in theory it doesn't really matter that much, but in practice with
>very weak signals eventually the IF feedthru is stronger than the weak
>signals, so it limits how much amplification I can provide and hence limits
>the ultimate sensitivity of the receiver.

Local-oscillator "blowthrough" is almost inevitable in non-balanced mixers. Even in single- and double-balanced mixers it's fairly common - it's an indication of less-than-perfect balance. Commercial DBMs usually quote an IF-isolation spec. For example, the popular Mini-Circuits SBL-1 mixer seems to have LO-to-IF isolations of anywhere from better than 65 dB (at HF) down to around 30 dB (at UHF). If you're trying to tune a weak signal (say, 80 or 90 dB weaker than the LO signal) then the residual LO feedthrough can cause the sort of swamping you're seeing.

Homebrew DBMs with hand-wound toroids, and less-than-well-matched diode sets may have significantly worse LO-to-IF isolation.

With diode-and-transformer DBMs, performance can degrade significantly if the mixer ports don't "look into" a nice broadband 50-ohm impedance. If, for example, you connect the IF port directly to a bandpass filter, the filter's impedance at the LO frequency is likely to be very much different thatn 50 ohms, and this may affect LO feedthrough.

The higher-performance superhet designs I've seen, generally take care to ensure that each mixer port sees the proper termination impedance. In the case of the LO port, the easiest way is to generate a stronger-than-necessary LO signal (maybe 13 dBm) and then feed it to the mixer through a 50-ohm pad (6 dB in this case).

In the case of the RF and IF ports, you can either use a resistive pad with modest attenuation (perhaps 3 dB), or use a diplexer. For the IF port you might want to feed the mixer into a common-gate or common-base broadband amplifier stage, run at a current level which gives it a 50-ohm input impedance... and then feed the output of this amp to your IF bandpass filter.

I've seen one fairly expensive device (a Tek spectrum analyzer) which had horrendous RF-spur problems. Turns out that its front end uses a simple non-balanced diode mixer with essentially no RF-to-IF or LO-to-IF isolation. The LO-to-IF isolation isn't a problem due to the nature of the analyzer design... but the analyzer uses a relatively low swept-IF frequency range, and the incoming RF signals can blow right through and be detected as if they were IF mixing products. It's an OK analyzer for bench testing of many radios, but is pretty much useless for trying to look at VHF over-the-air signals.

```
--
Dave Platt <dplatt@radagast.org>                                    AE6EO
Friends of Jade Warrior home page:  http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!


From -5327879568609468546
X-Google-Thread: fc2a5,75bf3540f812b9dc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
56g2000hsm.googlegroups.com!not-for-mail
From: Leon <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Causes of IF feedthru
Date: Wed, 11 Jun 2008 12:08:52 -0700 (PDT)
Organization: http://groups.google.com
Lines: 35
Message-ID: <e55dff05-720e-4c5f-950e-c7e0889f6ff5@56g2000hsm.googlegroups.com>
References: <4jU3k.209778$ng7.171642@en-nntp-05.dc1.easynews.com>
NNTP-Posting-Host: 86.145.228.233
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1213211332 30041 127.0.0.1 (11 Jun 2008 19:08:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 11 Jun 2008 19:08:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 56g2000hsm.googlegroups.com; posting-host=86.145.228.233;
     posting-account=QWZLZQkAAADFmB_RJlmk3T-GvINRaZti
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; YPC
     3.2.0; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:157

On 11 Jun, 18:54, "Joel Koltner" <zapwireDASHgro...@yahoo.com> wrote:
> I've been playing around with some homebrew superhet radios, and I'm findi=
ng
> that a significant amount of energy ends up at my 1st IF frequency that se=
ems
> to be coming from the LO. =A0While I expect to see energy from LO+/-IF end=
 up at
> IF, of course, I've checked the LO+/-IF spurs (the LO is coming from a
> PLL-based synthesizer), and in general it seems that a lot more energy end=
s up
> at the IF than what the spurs alone would suggest. =A0I remember a talk I
> attended where the presenter mention that one of the biggest problems with=

> building receivers was "the LO getting into the IF," so I'm thinking this =
is
> what he meant? =A0Are there other less obvious paths for the LO getting in=
to the
```

> IF than just the LO+/-IF spurs?
>
> The signal right at the IF eventually gets turned into DC and hence filter=
ed
> out, so in theory it doesn't really matter that much, but in practice with=

> very weak signals eventually the IF feedthru is stronger than the weak
> signals, so it limits how much amplification I can provide and hence limit=
s
> the ultimate sensitivity of the receiver.
>
> Thanks,
> ---Joel Koltner

Screening is the best solution. Put the various stages in separate
screened enclosures.

Leon

From 7299047361862887320
X-Google-Thread: fc2a5,c6b3b1ed222ecca2,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
q24g2000prf.googlegroups.com!not-for-mail
From: michael <cnbbiz032@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: shoes 4us shoes paypal payment $28/pairs   cnbbiz2008@hotmail.com (
     http://photo.163.com/photos/llz800728111/144977471/)
Date: Wed, 11 Jun 2008 13:08:41 -0700 (PDT)
Organization: http://groups.google.com
Lines: 58
Message-ID: <f23be950-37d4-4c5c-81cf-fbf86d850583@q24g2000prf.googlegroups.com>
NNTP-Posting-Host: 59.58.105.200
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1213214921 8264 127.0.0.1 (11 Jun 2008 20:08:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 11 Jun 2008 20:08:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q24g2000prf.googlegroups.com; posting-host=59.58.105.200;
     posting-account=KW0m5AoAAADCD27We1rTApeJ2OwaFPpn
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; zh-CN; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:158

 Please chat with me by cnbbiz2008@hotmail.com to get the price and
more photos, we take paypal payment $28/pairs as payment. please see
the photo album below for our product list.

shoes ARMANI shoes paypal payment $28/pairs   cnbbiz2008@hotmail.com
(http://photo.163.com/photos/llz800728111/134489149/)

shoes bally shoes paypal payment $28/pairs   cnbbiz2008@hotmail.com
(http://photo.163.com/photos/llz800728111/140329386/)

shoes 4us shoes paypal payment $28/pairs   cnbbiz2008@hotmail.com
(http://photo.163.com/photos/llz800728111/144977471/)

shoes bape shoes paypal payment $28/pairs   cnbbiz2008@hotmail.com
(http://photo.163.com/photos/llz800728111/130680706/)

shoes BURBERRY shoes paypal payment $28/pairs
cnbbiz2008@hotmail.com (http://photo.163.com/photos/llz800728111/134395893/
)

shoes ca shoes paypal payment $28/pairs   cnbbiz2008@hotmail.com
(http://photo.163.com/photos/xinpaodao.2235855/144102223/)

shoes chanel shoes paypal payment $28/pairs   cnbbiz2008@hotmail.com
(http://photo.163.com/photos/llz800728111/131078679/)

shoes Converse shoes paypal payment $28/pairs
cnbbiz2008@hotmail.com (http://photo.163.com/photos/nikeallstar#p2
)

shoes Clarks shoes paypal payment $28/pairs   cnbbiz2008@hotmail.com
(http://photo.163.com/photos/nikeallstar#p1)

shoes Lee shoes paypal payment $28/pairs   cnbbiz2008@hotmail.com
(http://photo.163.com/photos/nikeallstar#p1)

sandle Crocs sandle paypal payment $28/pairs
cnbbiz2008@hotmail.com (http://photo.163.com/photos/huayuexiehang/153324391/
)

shoes dunk shoes paypal payment $28/pairs   cnbbiz2008@hotmail.com
(http://photo.163.com/photos/8fzjlyl/)

shoes D&g shoes paypal payment $28/pairs   cnbbiz2008@hotmail.com
(http://photo.163.com/photos/llz800728111/130680801/)

shoes DIESEL shoes paypal payment $28/pairs   cnbbiz2008@hotmail.com
(http://photo.163.com/photos/nikeallstar#p1)

shoes DIOR shoes paypal payment $28/pairs   cnbbiz2008@hotmail.com
(http://photo.163.com/photos/llz800728111/153489067/)

shoes DSQUARED shoes paypal payment $28/pairs
cnbbiz2008@hotmail.com (http://photo.163.com/photos/tt83234/140318831/#p2)

shoes DC shoes paypal payment $28/pairs   cnbbiz2008@hotmail.com
(http://photo.163.com/photos/tt83234/140318831/#p2)

```
From 1123415160361375265
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!m45g2000hsb.googlegroups.com!not-for-
mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Wed, 11 Jun 2008 13:36:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 56
Message-ID: <75671283-a0ce-469c-a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
     <jZX1k.2010$nD3.912@newsfe15.lga>
<57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
     <86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
     <i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1213216623 2897 127.0.0.1 (11 Jun 2008 20:37:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 11 Jun 2008 20:37:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m45g2000hsb.googlegroups.com; posting-host=216.203.30.4;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.cb:567 rec.radio.amateur.equipment:174
rec.radio.amateur.homebrew:159

On Jun 11, 8:44=A0am, james <geo...@washington.edu> wrote:
> On Mon, 9 Jun 2008 06:25:33 -0700 (PDT), Telstar Electronics
>
> <briangrif...@sbcglobal.net> wrote:
>
> |On Jun 6, 4:17=A0pm, james <geo...@washington.edu> wrote:
> |> On Thu, 5 Jun 2008 16:25:44 -0400, "Tio Pedro"
> |>|> <radioconnect...@cox.net> wrote:
>
> |>
> |> ||"Telstar Electronics" <briangrif...@sbcglobal.net> wrote in message
> |>
> |> |news:c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com.=
..
```

> |> |> VoiceMax is really gaining momentum!
> |> |> Radio operators all over the world are enjoying the Voicemax
> |> |> advantage.
> |> |> Since VoiceMax doesn't use audio "clipping"... your audio is loud AN=
D
> |> |> clear.
> |> |> What a concept!
> |> |>
> |> |> See what VoiceMax can do for you at
> |> |>http://www.telstar-electronics.com/voicemax.htm
> |> |
> |> |What is the dB advantage of this vs. RF clipping for SSB?
> |> |
> |> |
> |> |----------------------
> |>
> |> RF Clipping is superior to audio compression in SSB transmission. RF
> |> clipping will provide about 6dB improvement over audio compression
> |> alone.
> |>
> |> james
> |
> |James is correct... that the RF clipping technique is somewhat more
> |effective. What he fails to mention is that it's more complex... and
> |not easily installed into an existing radio. RF clipping also
> |exihibits substantially more distortion. The VoiceMax installs
> |easily... and provides tangible results.
> |----------------
>
> Actually as easy to design an RF Clipper as an audio compressor. True
> it is a bit more difficult to install. Audio clippers can be external
> to the transmitter and simpler to install and operate. A RF Clipper
> will install as easily as your internal audio compressor. =A0
>
> Personally I would take RF clipping over Audio compression any day
> with SSB transmissions. If the post filters are good in enough RF
> clipping, there is not significant difference in distortion.
>
> james

But I was under the impression that RF clippers only work on SSB?...
and the installation involves tearing into the IF section?

From -4366309341863630678
X-Google-Thread: fc2a5,de74a8251b9c2970,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!roadrunner.com!not-for-mail
From: andrew cuomo <control@control.com>

```
Newsgroups: rec.radio.amateur.homebrew
Subject: TimeWarner discontinues usenet news
Date: Wed, 11 Jun 2008 16:37:36 -0400
Message-ID: <ord054hr1qdqk2bn1728o7trdk6cq85vqa@4ax.com>
X-Newsreader: Forte Agent 3.0/32.763
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 10
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 66.67.8.228
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:160
```

No more usenet news for RoadRunner users as of June 23. You have to
sign up with a pay service.

For questions call Time Warner central: 203-328-0600.

Press 2 to get the "Office of the President". Stay on the line to
talk to the "Customer Care Advocate."

A nice person will take your message. They even say they will look
into it and call back.

```
From 1006493012447377915
X-Google-Thread: fc2a5,de74a8251b9c2970
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
204.153.247.120.MISMATCH!teal.octanews.net!news-out.octanews.net!
indigo.octanews.net!auth.news-1.mpls.iphouse.com.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: TimeWarner discontinues usenet news
From: Bert Hyman <bert@iphouse.com>
References: <ord054hr1qdqk2bn1728o7trdk6cq85vqa@4ax.com>
Organization: Not so you'd notice
Message-ID: <Xns9ABAA08623FC3VeebleFetzer@127.0.0.1>
User-Agent: Xnews/2006.08.24
Date: 11 Jun 2008 20:46:48 GMT
Lines: 16
NNTP-Posting-Date: 11 Jun 2008 15:46:48 CDT
NNTP-Posting-Host: 4c5705ef.auth.newsreader.iphouse.com
X-Trace: DXC=`A]Dn1P<`L<J\MbjVQdif2e=fFUe;FGE9FbE0<hKBJT?
hFd:VP`E0D5D1kiRiW\QF4ZgRhQGSTe:>h6Q1TR0cFn6Sm]9NbUV4Q7oG6l`_Y@h];
X-Complaints-To: abuse@iphouse.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:161
```

control@control.com (andrew cuomo) wrote in
news:ord054hr1qdqk2bn1728o7trdk6cq85vqa@4ax.com:

> No more usenet news for RoadRunner users as of June 23. You have to
> sign up with a pay service.

There are free USENET providers, and some very cheap ones.

http://www.motzarella.org/
http://www.aioe.org/
http://www.readfreenews.net/
http://www.individual.net/
http://www.octanews.com/ [Full-service provider, not so cheap]

--
Bert Hyman | St. Paul, MN | bert@iphouse.com

```
From -8789063696879079410
X-Google-Thread: fc2a5,75bf3540f812b9dc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04a.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!
in04.usenetserver.com!news.usenetserver.com!nx01.iad01.newshosting.com!
newshosting.com!198.186.190.251.MISMATCH!transit4.readnews.com!news-
out.readnews.com!transit3.readnews.com!panix!panix3.panix.com!arthures
From: A <arthures@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Causes of IF feedthru
Date: Wed, 11 Jun 2008 17:54:04 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 58
Message-ID: <Pine.NEB.4.64.0806111740380.7962@panix3.panix.com>
References: <4jU3k.209778$ng7.171642@en-nntp-05.dc1.easynews.com>
NNTP-Posting-Host: panix3.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1213221245 25820 166.84.1.3 (11 Jun 2008 21:54:05 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 11 Jun 2008 21:54:05 +0000 (UTC)
In-Reply-To: <4jU3k.209778$ng7.171642@en-nntp-05.dc1.easynews.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:162
```

Before writing my comments, I read the comments of two others who
responded to your query.

On Wed, 11 Jun 2008, Joel Koltner wrote:

> I've been playing around with some homebrew superhet radios, and I'm finding
> that a significant amount of energy ends up at my 1st IF frequency that seems
> to be coming from the LO.

At this point I'd like to know what your problem is with "significant
amount of energy..." compared to whatever your ultimate goal is.

While I expect to see energy from LO+/-IF end up at
> IF, of course, I've checked the LO+/-IF spurs (the LO is coming from a
> PLL-based synthesizer), and in general it seems that a lot more energy ends up
> at the IF than what the spurs alone would suggest.

Again, what specifically are you "seeing" (measuring?) compared to what
you think you should be getting? Could your PLL synthesizer be dirtier
than you think?

I remember a talk I
> attended where the presenter mention that one of the biggest problems with
> building receivers was "the LO getting into the IF," so I'm thinking this is
> what he meant? Are there other less obvious paths for the LO getting into the
> IF than just the LO+/-IF spurs?

One way I would think about this is to ask if you looked at known circuits
that work and ask yourself what are you doing that is different from known
circuits that work. We also had some posts maybe 1-2 years ago where a guy
was working with chips and circuits and computer modelling (IIRC) and he
was unhappy that he was not getting (with real circuits) what his computer
modeling program told him he was supposed to get.

> The signal right at the IF eventually gets turned into DC and hence filtered
> out, so in theory it doesn't really matter that much, but in practice with
> very weak signals eventually the IF feedthru is stronger than the weak
> signals, so it limits how much amplification I can provide and hence limits
> the ultimate sensitivity of the receiver.

I do homebrew but with tubes and can tell many stories about what should
have been a straightforward project but electrical performance was
unacceptable. QST has had, in the past, articles on why ham-built copies
of ARRL circuits don't work and of course all the blame goes on the ham
and not ARRL but there is a lot of missing information in the handbooks,
too. I've learned a few tricks by the crash-and-burn, smoke tests with
smoke and no function, the "guess and pray" techniques, and the "dumb
looks"-after-the-smoke response. Very roughly, I'd say 50% of my projects
work the way I hoped they would work, the rest go to the glue factory.

> Thanks,
> ---Joel Koltner
>
>
>

```
From -7889880103657950948
X-Google-Thread: fc2a5,75bf3540f812b9dc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-
```

in-01.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-nntp-06.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <4jU3k.209778$ng7.171642@en-nntp-05.dc1.easynews.com> <4sj5i5-0no.ln1@radagast.org>
Subject: Re: Causes of IF feedthru
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <QOX3k.186355$fB7.45727@en-nntp-06.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Wed, 11 Jun 2008 14:52:36 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:163

Hi Dave,

Thanks for the information; it's quite helpful!

I was (am) committing the faux pas of feeding the mixer output directly into a narrow bandpass filter...

> For example, the popular
> Mini-Circuits SBL-1 mixer seems to have LO-to-IF isolations of
> anywhere from better than 65 dB (at HF) down to around 30 dB (at UHF).
> If you're trying to tune a weak signal (say, 80 or 90 dB weaker than
> the LO signal) then the residual LO feedthrough can cause the sort of
> swamping you're seeing.

So... say I'm using a 45MHz IF, trying to tune 414MHz using the SBL-1 and an LO of 414-45=369MHz (low-side injection) at the SBL-1's recommended +7dBm. Presumably I'll see a 7dBm - 30dB (LO-IF isolation) = -23dBm signal at the IF, but it should still be at 369MHz, right? How does the LO "bleed through" to the 45MHz IF... and what power level should I expect to see there?

---Joel

From 1050414083396600653
X-Google-Thread: fc2a5,75bf3540f812b9dc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!140.99.99.194.MISMATCH!news-in-02.newsfeed.easynews.com!core-

easynews!easynews.com!easynews!en-nntp-03.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <4jU3k.209778$ng7.171642@en-nntp-05.dc1.easynews.com>
<Pine.NEB.4.64.0806111740380.7962@panix3.panix.com>
Subject: Re: Causes of IF feedthru
Lines: 40
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <oeY3k.184451$6i4.72014@en-nntp-03.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Wed, 11 Jun 2008 15:22:00 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:164

"A" <arthures@panix.com> wrote in message news:Pine.NEB.4.64.0806111740380.7962@panix3.panix.com...

> At this point I'd like to know what your problem is with "significant amount of energy..." compared to whatever your ultimate goal is.

I'll get something in the ballpark of an -90dBm spur at the IF when the noise floor is down around, say, -120dBm. Hence I have a harder time recovering signals at, say, -100dBm even though they still have a decent SNR (and my commercial receives have no difficulty at all hearing them). This is measured on an Agilent 8563 spectrum analyzer.

> Could your PLL synthesizer be dirtier than you think?

I've done some wideband sweeps of it, and there are some spurs that are only ~ -70dBc. It's obvious when you choose a channel that suffers from these higher-level spurs, though... it'll add 20dB or more to the IF spur. I ditched my homebrew PLL-based synthesizer for a good HP box borrowed for testing, though (its spurs are more like -90dBc worst case), and the problem is still there.

> One way I would think about this is to ask if you looked at known circuits that work and ask yourself what are you doing that is different from known circuits that work.

The usual problem is that very few circuits found on the Internet actually come with performance data -- unless you build them yourself, you really have no way to know if they're just as bad or worse than your own efforts!

> We also had some posts maybe 1-2 years ago where a guy was working with chips and circuits and computer modelling (IIRC) and he was unhappy that he was not getting (with real circuits) what his computer modeling program told him he was supposed to get.

```
It would almost be alarming if those circuits did work, in real life, within,
say, 0.1dB of their simulated results rather than the more typical 1-5dB
that's often still considered "good agreement!"

---Joel




From -4006243068849810181
X-Google-Thread: fc2a5,75bf3540f812b9dc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
59g2000hsb.googlegroups.com!not-for-mail
From: Leon <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Causes of IF feedthru
Date: Wed, 11 Jun 2008 16:55:54 -0700 (PDT)
Organization: http://groups.google.com
Lines: 35
Message-ID: <155004a6-f76b-42a7-a642-43071d04d489@59g2000hsb.googlegroups.com>
References: <4jU3k.209778$ng7.171642@en-nntp-05.dc1.easynews.com>
     <4sj5i5-0no.ln1@radagast.org> <QOX3k.186355$fB7.45727@en-
nntp-06.dc1.easynews.com>
NNTP-Posting-Host: 86.145.228.233
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1213228554 4250 127.0.0.1 (11 Jun 2008 23:55:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 11 Jun 2008 23:55:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 59g2000hsb.googlegroups.com; posting-host=86.145.228.233;
     posting-account=QWZLZQkAAADFmB_RJlmk3T-GvINRaZti
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; YPC
     3.2.0; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:165

On 11 Jun, 22:52, "Joel Koltner" <zapwireDASHgro...@yahoo.com> wrote:
> Hi Dave,
>
> Thanks for the information; it's quite helpful!
>
> I was (am) committing the faux pas of feeding the mixer output directly in=
to a
> narrow bandpass filter...
>
> > For example, the popular
> > Mini-Circuits SBL-1 mixer seems to have LO-to-IF isolations of
> > anywhere from better than 65 dB (at HF) down to around 30 dB (at UHF).
> > If you're trying to tune a weak signal (say, 80 or 90 dB weaker than
```

> > the LO signal) then the residual LO feedthrough can cause the sort of
> > swamping you're seeing.
>
> So... say I'm using a 45MHz IF, trying to tune 414MHz using the SBL-1 and =
an
> LO of 414-45=3D369MHz (low-side injection) at the SBL-1's recommended +7dB=
m.
> Presumably I'll see a 7dBm - 30dB (LO-IF isolation) =3D -23dBm signal at t=
he IF,
> but it should still be at 369MHz, right? =A0How does the LO "bleed through=
" to
> the 45MHz IF... and what power level should I expect to see there?
>
> ---Joel

DBMs should be terminated in 50 ohms over a wide bandwidth. MCL has
recommendations concerning this.

Leon

From 5421398015643155229
X-Google-Thread: fc2a5,de74a8251b9c2970
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.islandhosting.com!
news.islandhosting.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 11 Jun 2008 21:15:01 -0500
Message-Id: <73e8302877856ce455b0aa763b35bb9e@grapevine.islandnet.com>
From: Robert Smits <bob@rsmits.ca>
Subject: Re: TimeWarner discontinues usenet news
Newsgroups: rec.radio.amateur.homebrew
Date: Wed, 11 Jun 2008 19:13:19 -0700
References: <ord054hr1qdqk2bn1728o7trdk6cq85vqa@4ax.com>
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Organization: Organization is overrated
X-Tracking: 4850863F4DF53D214BF5107F0FA8667E11B0686609BE707B0CB7627E
X-Report-Abuse-To: news@islandnet.com
X-NNRP-Cache: Grapevine 2.0 -- http://grapevine.islandnet.com/
Lines: 18
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 199.175.106.126
X-Trace:
sv3-6LPoPpHcNktMcr8w26OH+6PeUVyyDykuYItr+Rgy65NC7WUe1dyk1gIoKDJocesfyL3unquuPK3aQS
h!LPUCb2LJWFpt4jelihLgkoKpV8hoKQ3eH0vrfD9rw7setPWedAnh+tkVKaG8pVcJTt1IROq8JGm0!
LlWYa6pMym0GqUZulJOsZYxXzTJefvmevDUKxt0=

X-Complaints-To: abuse@islandnet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:166

andrew cuomo wrote:

> No more usenet news for RoadRunner users as of June 23. You have to
> sign up with a pay service.
>
> For questions call Time Warner central: 203-328-0600.
>
> Press 2 to get the "Office of the President". Stay on the line to
> talk to the "Customer Care Advocate."
>
> A nice person will take your message. They even say they will look
> into it and call back.

I sure hope some Time-Warner subscribers institute a class action lawsuit against them for taking away a big part of the internet for their customers.

From 7205429952856481261
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 11 Jun 2008 21:18:44 -0500
From: james <george@washington.edu>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Wed, 11 Jun 2008 22:18:48 -0400
Reply-To: beerkeg@budu.edu
Message-ID: <sl1154du7jqb1g99kin78cssmsods2dqjg@4ax.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com> <jZX1k.2010$nD3.912@newsfe15.lga> <57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com> <86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com> <i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com> <75671283-a0ce-469c-a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 70

X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 72.91.132.190
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1QTYOI3qDlHJ6hxah!
1yEhxwzU09ou5YgoRnjhYtbMoFhbHGMR2+fNewvDPtRDUcwy6uAx5cK9BRMydA24gylAtCFlclq3!
o36OF6TCAolVQotz4LrS4w==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.cb:569 rec.radio.amateur.equipment:176
rec.radio.amateur.homebrew:167

On Wed, 11 Jun 2008 13:36:55 -0700 (PDT), Telstar Electronics
<briangriffey@sbcglobal.net> wrote:

|On Jun 11, 8:44�am, james <geo...@washington.edu> wrote:
|> On Mon, 9 Jun 2008 06:25:33 -0700 (PDT), Telstar Electronics
|>
|> <briangrif...@sbcglobal.net> wrote:
|>
|> |On Jun 6, 4:17�pm, james <geo...@washington.edu> wrote:
|> |> On Thu, 5 Jun 2008 16:25:44 -0400, "Tio Pedro"
|> |>|> <radioconnect...@cox.net> wrote:
|>
|> |>
|> |> ||"Telstar Electronics" <briangrif...@sbcglobal.net> wrote in message
|> |>
|> |> |news:c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com...
|> |> |> VoiceMax is really gaining momentum!
|> |> |> Radio operators all over the world are enjoying the Voicemax
|> |> |> advantage.
|> |> |> Since VoiceMax doesn't use audio "clipping"... your audio is loud AND
|> |> |> clear.
|> |> |> What a concept!
|> |> |>
|> |> |> See what VoiceMax can do for you at
|> |> |>http://www.telstar-electronics.com/voicemax.htm
|> |> |
|> |> |What is the dB advantage of this vs. RF clipping for SSB?
|> |> |
|> |> |
|> |> |----------------------
|> |>
|> |> RF Clipping is superior to audio compression in SSB transmission. RF
|> |> clipping will provide about 6dB improvement over audio compression
|> |> alone.
|> |>
|> |> james
|> |
|> |James is correct... that the RF clipping technique is somewhat more
|> |effective. What he fails to mention is that it's more complex... and
|> |not easily installed into an existing radio. RF clipping also

|> |exihibits substantially more distortion. The VoiceMax installs
|> |easily... and provides tangible results.
|> |----------------
|>
|> Actually as easy to design an RF Clipper as an audio compressor. True
|> it is a bit more difficult to install. Audio clippers can be external
|> to the transmitter and simpler to install and operate. A RF Clipper
|> will install as easily as your internal audio compressor. �
|>
|> Personally I would take RF clipping over Audio compression any day
|> with SSB transmissions. If the post filters are good in enough RF
|> clipping, there is not significant difference in distortion.
|>
|> james
|
|But I was under the impression that RF clippers only work on SSB?...
|and the installation involves tearing into the IF section?
|--------------

Correct. An RF clipper an be inserted after the SSB filters or before.
There are versions that do the clipping after the balance modualtor
and before filters. Sherwood did a RF clipper for the Drake TR4 that
was after the SSB filters and had crystal filters to restore the
original bandwidth.

Generally RF clipping is a bit more expensive than audio compression.
Then you get what you pay for.

james

```
From -7469391405728835477
X-Google-Thread: 1109af,81008dfee95cadb1,start
X-Google-Thread: 107ada,81008dfee95cadb1,start
X-Google-Thread: 107cee,81008dfee95cadb1,start
X-Google-Thread: f4e7d,81008dfee95cadb1,start
X-Google-Thread: 1130cb,81008dfee95cadb1,start
X-Google-Thread: fc2a5,81008dfee95cadb1,start
X-Google-Thread: fc8b1,81008dfee95cadb1,start
X-Google-Thread: 10b9c8,81008dfee95cadb1,start
X-Google-Attributes:
gid1109af,gid107ada,gid107cee,gidf4e7d,gid1130cb,gidfc2a5,gidfc8b1,gid10b9c8,domai
nid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.249.MISMATCH!transit3.readnews.com!news-xxxfer.readnews.com!news-
out.readnews.com!transit4.readnews.com!panix!bloom-beacon.mit.edu!senator-
bedfellow.mit.edu!dreaderd!not-for-mail
Newsgroups:
rec.radio.swap,rec.radio.amateur.misc,sci.electronics.misc,ne.forsale,ne.general,r
ec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.info
```

Subject: ** FLEA at MIT **   Sunday June 15th   Cambridge MA
Summary: Buy Sell SWAP Ham Radio Electronics Computers 9AM - 2PM
Expires: 6/22/08
Followup-To: poster
Approved: rec-radio-info@panix.com
Distribution: na
Organization: Massachvsetts Institvte of Technology
Keywords: Hamfest Fleamarket SWAPFEST Computers Ham Radio Electronics
From: w1gsl@mit.edu (Steven L. Finberg)
Date: 12 Jun 2008 02:27:40 GMT
Lines: 131
Message-ID: <4850899c$0$302$b45e6eb0@senator-bedfellow.mit.edu>
NNTP-Posting-Host: MINT-SQUARE.MIT.EDU
X-Trace: 1213237660 senator-bedfellow.mit.edu 302 18.7.18.71
Xref: g2news1.google.com rec.radio.swap:174 rec.radio.amateur.misc:207
sci.electronics.misc:270 ne.forsale:35 ne.general:69
rec.radio.amateur.homebrew:168 rec.radio.amateur.boatanchors:319 rec.radio.info:60

This coming Sunday....
the next .... FLEA at MIT

****
****

Summary: Buy Sell SWAP   Ham Radio   Electronics Computers   9AM - 2PM

*** !!!! In our Traditional GARAGE and the adjacent lot !!!! ****
so come rain or shine or super heat the Flea is on !!!

!! ** More Buyers PARKING is available ** for details see
http://web.mit.edu/w1gsl/Public/flyer

<FF>
********* $1 buyers discount with hardcopy of this notice ********

COMPUTERS - ELECTRONICS - HAM RADIO - COMPUTERS - ELECTRONICS - HAM RADIO

FLEA all SUMMER at MIT
Sunday June 15th 2008
9AM-2PM

Come to the city for a great flea - plenty of free parking.

MIT's electronics and ham radio flea will take
place on the third Sunday of each month this summer,
April thru October.

There is tailgate space for over 600 sellers and
free, off-street parking for >2000 cars!

Buyers admission is $5 (you get $1 off if
you're lucky enough to have a copy of our ad)
and sellers spaces are $20 for the first and

$15 for each additional at the gate.

The flea will be held on Albany between Mass Ave and Main streets in Cambridge; right in the Kendall Square area from 9AM to 2PM, with sellers set-up time starting at 7AM.

SEASON PASS + Advance Seller Discount

A sellers discount season pass is available which offers a 30% discount. By prepaying you get a discount and earlier admission. See the registration form.

*** Attention Sellers ***
Prepaid vendors.. Season Pass or monthly,
will be admitted FIRST.
Separate lines will form prior to gate opening
for prepaid and nonprepaid vendors

!! RAIN or SHINE !! Have no fear of rain, a covered well illuminated tailgate area is available for all sellers (6'8" clearance).

Talk-in: 145.23- (PL 88.5) W1BOS/R and
W1XM/R-449.725/444.725 (PL 114.8/2A).

Sponsors: MIT Electronics Research Society
MIT UHF Repeater Association (W1XM)
MIT Radio Society (W1MX)
Harvard Wireless Club (W1AF)

For more info / advanced reservations 617 253 3776 (M-F 9-5)

********** $1 buyers discount with hard copy of this notice ************

<FF>

Mail the coupon below by the 5th to be a Prepaid Vendor.

FLEA at MIT   2008 Rates

SELLERS

To use your prepaid spaces the named vendor MUST be present.
Rates include one admission per space.

Season Pass   Sellers admission to all seven meets this year
$99 First Space
$70 Each Additional space
Must be received by April 20th.

Advance $17 First space

```
                  $12 Additional Spaces
                        Must be received by the 10th of the month.

Gate Admission  $20 First Space
                  $15 Additional Spaces
                      Admission is after the prepaid vendors.

Early Bird Buyer -Admission after the prepaid vendor line is admitted. ~ 7:15AM
                ** You may not sell. **
                $15 per person at the gate.
                $70 Season Early Bird Buyer


   cut and return
**************************************************************************
FLEA at MIT   2008       Advance Space Application                 4/08

   ____April    ____May    ____June   ____ July  ____Aug   ___Sept   ____Oct
          @ $17  for the first each month  + $12 each additional
   ____Season Pass @ $99  ____ Additional Season Spaces @ $70 ___EBB @$70

Name    ________________________     Call  __________     $ Included_________

Address ________________________     Phone  __________     Make Check to
                                                         The MIT Radio Society
City  ____________________ State  _______  Zip  _______    PO Box 397082
                                                           Cambridge MA 02139
E-mail  _____________________________________________



*******************************************************************************
Steve Finberg                      W1GSL                          w1gsl@mit.edu
PO Box 82 MIT Br          Cambridge MA  02139-7082                 617 258 3754
*******************************************************************************
```

```
From -7681821029131283358
X-Google-Thread: fc2a5,de74a8251b9c2970
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: TimeWarner discontinues usenet news
```

```
Date: Thu, 12 Jun 2008 00:18:02 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.06.12.07.18.02.942266@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <ord054hr1qdqk2bn1728o7trdk6cq85vqa@4ax.com>
<Xns9ABAA08623FC3VeebleFetzer@127.0.0.1>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 22
Organization: Octanews
NNTP-Posting-Date: 12 Jun 2008 02:18:04 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:169

On Wed, 11 Jun 2008 20:46:48 +0000, Bert Hyman wrote:

> control@control.com (andrew cuomo) wrote in
> news:ord054hr1qdqk2bn1728o7trdk6cq85vqa@4ax.com:
>
>> No more usenet news for RoadRunner users as of June 23.  You have to
>> sign up with a pay service.
>
> There are free USENET providers, and some very cheap ones.
>
> http://www.motzarella.org/
> http://www.aioe.org/
> http://www.readfreenews.net/
> http://www.individual.net/
> http://www.octanews.com/ [Full-service provider, not so cheap]

I'm on Octanews and buy blocks. They rock!

My stupid ISP caps Usenet at slower-than-dial-up rates >.<

Cheers!



From 8683276897518872358
X-Google-Thread: fc2a5,de74a8251b9c2970
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-
in-01.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-
nntp-03.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <ord054hr1qdqk2bn1728o7trdk6cq85vqa@4ax.com>
<73e8302877856ce455b0aa763b35bb9e@grapevine.islandnet.com>
Subject: Re: TimeWarner discontinues usenet news
Lines: 15
X-Priority: 3
```

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5512
X-RFC2646: Format=Flowed; Original
Message-ID: <MC44k.184793$6i4.63015@en-nntp-03.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Thu, 12 Jun 2008 00:54:11 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:170

"Robert Smits" <bob@rsmits.ca> wrote in message news:73e8302877856ce455b0aa763b35bb9e@grapevine.islandnet.com...

> I sure hope some Time-Warner subscribers institute a class action lawsuit against them for taking away a big part of the internet for their customers.

It's very likely that customers will find that nowhere in their subscription contract is access to a Usenet server actually promised... with most ISPs it's been a "free perk" for a long time (years) now.

There was a time when some ISPs provided shell accounts as well -- that's been gone for years as well... although web hosting companies often still provide it.

From -1706567658025505105
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!newsfeed00.sul.t-online.de!t-online.de!peer-uk.news.demon.net!kibo.news.demon.net!news.demon.co.uk!demon!g3ohx.demon.co.uk!ianREMOVETHISjackson
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Thu, 12 Jun 2008 09:03:36 +0100
Lines: 89
Message-ID: <zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
 <jZX1k.2010$nD3.912@newsfe15.lga>
 <57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
 <86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
 <i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com>
 <75671283-a0ce-469c-a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
 <sl1154du7jqb1g99kin78cssmsods2dqjg@4ax.com>
NNTP-Posting-Host: g3ohx.demon.co.uk
Mime-Version: 1.0

```
Content-Type: text/plain;charset=iso-8859-1;format=flowed
Content-Transfer-Encoding: 8bit
X-Trace: news.demon.co.uk 1213257820 18546 80.176.138.122 (12 Jun 2008 08:03:40
GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Thu, 12 Jun 2008 08:03:40 +0000 (UTC)
User-Agent: Turnpike/6.06-S (<X1SqWat$KPTGaPCjtBGoeAF7Yn>)
Xref: g2news1.google.com rec.radio.cb:571 rec.radio.amateur.equipment:177
rec.radio.amateur.homebrew:171

In message <sl1154du7jqb1g99kin78cssmsods2dqjg@4ax.com>, james
<george@washington.edu> writes
>On Wed, 11 Jun 2008 13:36:55 -0700 (PDT), Telstar Electronics
><briangriffey@sbcglobal.net> wrote:
>
>|On Jun 11, 8:44�am, james <geo...@washington.edu> wrote:
>|> On Mon, 9 Jun 2008 06:25:33 -0700 (PDT), Telstar Electronics
>|>
>|> <briangrif...@sbcglobal.net> wrote:
>|>
>|> |On Jun 6, 4:17�pm, james <geo...@washington.edu> wrote:
>|> |> On Thu, 5 Jun 2008 16:25:44 -0400, "Tio Pedro"
>|> |>|> <radioconnect...@cox.net> wrote:
>|>
>|> |>
>|> |> ||"Telstar Electronics" <briangrif...@sbcglobal.net> wrote in message
>|> |>
>|> |> |news:c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com...
>|> |> |> VoiceMax is really gaining momentum!
>|> |> |> Radio operators all over the world are enjoying the Voicemax
>|> |> |> advantage.
>|> |> |> Since VoiceMax doesn't use audio "clipping"... your audio is loud AND
>|> |> |> clear.
>|> |> |> What a concept!
>|> |> |>
>|> |> |> See what VoiceMax can do for you at
>|> |> |>http://www.telstar-electronics.com/voicemax.htm
>|> |> |
>|> |> |What is the dB advantage of this vs. RF clipping for SSB?
>|> |> |
>|> |> |
>|> |> |----------------------
>|> |>
>|> |> RF Clipping is superior to audio compression in SSB transmission. RF
>|> |> clipping will provide about 6dB improvement over audio compression
>|> |> alone.
>|> |>
>|> |> james
>|> |
>|> |James is correct... that the RF clipping technique is somewhat more
>|> |effective. What he fails to mention is that it's more complex... and
>|> |not easily installed into an existing radio. RF clipping also
>|> |exihibits substantially more distortion. The VoiceMax installs
```

>|> |easily... and provides tangible results.
>|> |----------------
>|>
>|> Actually as easy to design an RF Clipper as an audio compressor. True
>|> it is a bit more difficult to install. Audio clippers can be external
>|> to the transmitter and simpler to install and operate. A RF Clipper
>|> will install as easily as your internal audio compressor. �
>|>
>|> Personally I would take RF clipping over Audio compression any day
>|> with SSB transmissions. If the post filters are good in enough RF
>|> clipping, there is not significant difference in distortion.
>|>
>|> james
>|
>|But I was under the impression that RF clippers only work on SSB?...
>|and the installation involves tearing into the IF section?
>|--------------
>
>Correct. An RF clipper an be inserted after the SSB filters or before.
>There are versions that do the clipping after the balance modualtor
>and before filters. Sherwood did a RF clipper for the Drake TR4 that
>was after the SSB filters and had crystal filters to restore the
>original bandwidth.
>
>Generally RF clipping is a bit more expensive than audio compression.
>Then you get what you pay for.
>
>
>james

I thought that there were some stand-alone RF clippers. Surely there is
no reason why they cannot be external units, inserted in-line between
the mic and the mic socket (ie audio in - audio out)?

Obviously they have to contain 'all the works' (oscillator, balanced
modulator, compressor, clipper, filters, balanced demodulator etc), but
at least they are self-contained and universal.

Regarding filtering, the main advantage of RF clippers is that they
eliminate the effects of second-order distortion, and only have the
distortion produced by in-band third order intermodulation. For
cheapness and simplicity, if you leave out the SSB filtering (ie do
everything at DSB), you will have at least twice the number of in-band
IM products. But how much worse is this than having SSB filtering?
--
Ian

From 1443187725962350052
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!tudelft.nl!txtfeed1.tudelft.nl!feeder.erje.net!feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Message-ID: <etr154h8ohbrsqp3h7oukrkk81h0uhk9ml@4ax.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com> <jZX1k.2010$nD3.912@newsfe15.lga> <57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com> <86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com> <i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com> <75671283-a0ce-469c-a9b0-37b1bc451672@m45g2000hsb.googlegroups.com> <sl1154du7jqb1g99kin78cssmsods2dqjg@4ax.com> <zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 12
Date: Thu, 12 Jun 2008 12:45:03 +0300
NNTP-Posting-Host: 85.77.226.246
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1213263898 85.77.226.246 (Thu, 12 Jun 2008 12:44:58 EEST)
NNTP-Posting-Date: Thu, 12 Jun 2008 12:44:58 EEST
Organization: Saunalahti Customer
Xref: g2news1.google.com rec.radio.cb:572 rec.radio.amateur.equipment:178 rec.radio.amateur.homebrew:172

On Thu, 12 Jun 2008 09:03:36 +0100, Ian Jackson
<ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:

>I thought that there were some stand-alone RF clippers. Surely there is
>no reason why they cannot be external units, inserted in-line between
>the mic and the mic socket (ie audio in - audio out)?
>

At least Datong made a stand-alone unit. There was an article about
RF-clipping and the Datong unit in Wireless World a few decades ago.

Paul OH3LWR

From -1401883698509309694
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d1g2000hsg.googlegroups.com!not-for-mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew

```
Subject: Re: VoiceMax Speech Processor...
Date: Thu, 12 Jun 2008 04:24:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 7
Message-ID: <c2363b23-32a8-4578-b3f2-e9ee71eeb050@d1g2000hsg.googlegroups.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
     <jZX1k.2010$nD3.912@newsfe15.lga>
<57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
     <86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
     <i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com> <75671283-a0ce-469c-
a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
     <sl1154du7jqb1g99kin78cssmsods2dqjg@4ax.com>
<zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1213269875 8450 127.0.0.1 (12 Jun 2008 11:24:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 12 Jun 2008 11:24:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d1g2000hsg.googlegroups.com; posting-host=216.203.30.4;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.cb:573 rec.radio.amateur.equipment:179
rec.radio.amateur.homebrew:173

> I thought that there were some stand-alone RF clippers. Surely there is
> no reason why they cannot be external units, inserted in-line between
> the mic and the mic socket (ie audio in - audio out)?

Huh? How can you do RF clipping outside the unit? Not a chance...
Any unit that's inserted in the mic jack is no RF clipper.
www.telstar-electronics.com



From 3384329429058695097
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
news.tele.dk!news.tele.dk!small.news.tele.dk!bnewspeer01.bru.ops.eu.uu.net!
emea.uu.net!peer-uk.news.demon.net!kibo.news.demon.net!news.demon.co.uk!demon!
g3ohx.demon.co.uk!ianREMOVETHISjackson
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Thu, 12 Jun 2008 13:28:38 +0100
Lines: 22
```

```
Message-ID: <CY6CqrA2ZRUIFwKg@g3ohx.demon.co.uk>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
 <jZX1k.2010$nD3.912@newsfe15.lga>
 <57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
 <86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
 <i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com>
 <75671283-a0ce-469c-a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
 <sl1154du7jqb1g99kin78cssmsods2dqjg@4ax.com>
 <zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
 <c2363b23-32a8-4578-b3f2-e9ee71eeb050@d1g2000hsg.googlegroups.com>
NNTP-Posting-Host: g3ohx.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1213273722 7862 80.176.138.122 (12 Jun 2008 12:28:42
GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Thu, 12 Jun 2008 12:28:42 +0000 (UTC)
User-Agent: Turnpike/6.06-S (<HVfqWabvKPDlbPCj7REoeAENw9>)
Xref: g2news1.google.com rec.radio.cb:574 rec.radio.amateur.equipment:180
rec.radio.amateur.homebrew:174

In message
<c2363b23-32a8-4578-b3f2-e9ee71eeb050@d1g2000hsg.googlegroups.com>,
Telstar Electronics <briangriffey@sbcglobal.net> writes
>> I thought that there were some stand-alone RF clippers. Surely there is
>> no reason why they cannot be external units, inserted in-line between
>> the mic and the mic socket (ie audio in - audio out)?
>
>Huh? How can you do RF clipping outside the unit? Not a chance...
>Any unit that's inserted in the mic jack is no RF clipper.
>www.telstar-electronics.com

As I said. "Obviously they have to contain 'all the works' (oscillator,
balanced modulator, compressor, clipper, filters, balanced demodulator
etc)."

And, as Paul said, "At least Datong made a stand-alone unit. There was
an article about RF-clipping and the Datong unit in Wireless World a few
decades ago."

But maybe Datong didn't know what they were doing.
--
Ian



From 5125091603906177109
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-
```

mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
<jZX1k.2010$nD3.912@newsfe15.lga> <57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
<86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
<i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com> <75671283-a0ce-469c-a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
<sl1154du7jqb1g99kin78cssmsods2dqjg@4ax.com> <zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
<c2363b23-32a8-4578-b3f2-e9ee71eeb050@d1g2000hsg.googlegroups.com>
<CY6CqrA2ZRUIFwKg@g3ohx.demon.co.uk>
Subject: Re: VoiceMax Speech Processor...
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <%x94k.205330$yE1.184476@attbi_s21>
NNTP-Posting-Host: 12.219.130.17
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1213277435 12.219.130.17 (Thu, 12 Jun 2008 13:30:35 GMT)
NNTP-Posting-Date: Thu, 12 Jun 2008 13:30:35 GMT
Organization: AT&T ASP.att.net
Date: Thu, 12 Jun 2008 13:30:35 GMT
Xref: g2news1.google.com rec.radio.cb:576 rec.radio.amateur.equipment:182
rec.radio.amateur.homebrew:175

>>Huh? How can you do RF clipping outside the unit? Not a chance...
>>Any unit that's inserted in the mic jack is no RF clipper.
>>www.telstar-electronics.com
>
> As I said. "Obviously they have to contain 'all the works' (oscillator,
> balanced modulator, compressor, clipper, filters, balanced demodulator
> etc)."
>
> And, as Paul said, "At least Datong made a stand-alone unit. There was an
> article about RF-clipping and the Datong unit in Wireless World a few
> decades ago."
>
> But maybe Datong didn't know what they were doing.
> --
> Ian

They had a lot of company, and the residents here have a very short memory. Datong was second. Comdel made an RF clipper in the late 60's and early 70's. Mike input and amplifier, mixed up to 455 KHz, sideband generated, clipped the hell out of it, filtered it with a second filter, mixed back down to audio with the same LO for injection to your mike input jack. Every serious contester and DXer had one. Cost more than the receiver.

W4ZCB

```
From 2980789050428085722
X-Google-Thread: fc2a5,75bf3540f812b9dc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!b1g2000hsg.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Causes of IF feedthru
Date: Thu, 12 Jun 2008 06:46:47 -0700 (PDT)
Organization: http://groups.google.com
Lines: 50
Message-ID: <00ed3557-3b12-4fad-b417-d60bf8f0615b@b1g2000hsg.googlegroups.com>
References: <4jU3k.209778$ng7.171642@en-nntp-05.dc1.easynews.com>
     <4sj5i5-0no.ln1@radagast.org> <QOX3k.186355$fB7.45727@en-
nntp-06.dc1.easynews.com>
NNTP-Posting-Host: 170.121.15.44
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1213278407 15070 127.0.0.1 (12 Jun 2008 13:46:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 12 Jun 2008 13:46:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b1g2000hsg.googlegroups.com; posting-host=170.121.15.44;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:176

On Jun 11, 5:52=A0pm, "Joel Koltner" <zapwireDASHgro...@yahoo.com>
wrote:
> Hi Dave,
>
> Thanks for the information; it's quite helpful!
>
> I was (am) committing the faux pas of feeding the mixer output directly in=
to a
> narrow bandpass filter...
>
> > For example, the popular
> > Mini-Circuits SBL-1 mixer seems to have LO-to-IF isolations of
> > anywhere from better than 65 dB (at HF) down to around 30 dB (at UHF).
> > If you're trying to tune a weak signal (say, 80 or 90 dB weaker than
> > the LO signal) then the residual LO feedthrough can cause the sort of
> > swamping you're seeing.
>
> So... say I'm using a 45MHz IF, trying to tune 414MHz using the SBL-1 and =
```

an
> LO of 414-45=3D369MHz (low-side injection) at the SBL-1's recommended +7dB=
m.
> Presumably I'll see a 7dBm - 30dB (LO-IF isolation) =3D -23dBm signal at t=
he IF,
> but it should still be at 369MHz, right? =A0How does the LO "bleed through=
" to
> the 45MHz IF... and what power level should I expect to see there?

Ah - here you hit something on the head. I didn't know you were asking
about UHF, but now I can contribute!

SBL-1 balance isolation gets substantially worse as you move from HF
to VHF to UHF. Looking at the spec sheet, as you move from 3MHz (where
I use the SBL-1) to 369 MHz (where you use the SBL-1) the isolation
gets 34 dB worse.

AND the typical and guaranteed numbers are only if all the ports are
terminated nicely.

So while my gut feeling was originally "LO-IF isolation, that's never
been a problem for me at 3.5 or 7 MHz with the SBL-1" now I look at
the spec sheet and think "wow, isolation is a much bigger problem at
UHF than anything I've ever dealt with in the SBL-1 at HF"!

If you can arrange the IF stuff at the output of the mixer such that
you have a good flat termination match and such that you hit an IF
filter that will get rid of the LO before any substantial gain, I
think you'll come out way ahead of just switching to a different
variety of mixer.

Tim N3QE

From 2721746406095469310
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
newsfeed00.sul.t-online.de!t-online.de!peer-uk.news.demon.net!kibo.news.demon.net!
news.demon.co.uk!demon!g3ohx.demon.co.uk!ianREMOVETHISjackson
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Thu, 12 Jun 2008 14:45:18 +0100
Lines: 33
Message-ID: <lYMLKWNuhSUIFw$a@g3ohx.demon.co.uk>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
<jZX1k.2010$nD3.912@newsfe15.lga>
<57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
<86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>

```
 <i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com>
 <75671283-a0ce-469c-a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
 <sl1154du7jqb1g99kin78cssmsods2dqjg@4ax.com>
 <zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
 <c2363b23-32a8-4578-b3f2-e9ee71eeb050@d1g2000hsg.googlegroups.com>
 <CY6CqrA2ZRUIFwKg@g3ohx.demon.co.uk> <%x94k.205330$yE1.184476@attbi_s21>
NNTP-Posting-Host: g3ohx.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1213278322 14525 80.176.138.122 (12 Jun 2008 13:45:22
GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Thu, 12 Jun 2008 13:45:22 +0000 (UTC)
User-Agent: Turnpike/6.06-S (<XIZqWuLbKPDw8PCjmRJoeAxUnd>)
Xref: g2news1.google.com rec.radio.cb:577 rec.radio.amateur.equipment:183
rec.radio.amateur.homebrew:177

In message <%x94k.205330$yE1.184476@attbi_s21>, Harold E. Johnson
<W4ZCB@mchsi.com> writes
>
>>>Huh? How can you do RF clipping outside the unit? Not a chance...
>>>Any unit that's inserted in the mic jack is no RF clipper.
>>>www.telstar-electronics.com
>>
>> As I said. "Obviously they have to contain 'all the works' (oscillator,
>> balanced modulator, compressor, clipper, filters, balanced demodulator
>> etc)."
>>
>> And, as Paul said, "At least Datong made a stand-alone unit. There was an
>> article about RF-clipping and the Datong unit in Wireless World a few
>> decades ago."
>>
>> But maybe Datong didn't know what they were doing.
>> --
>> Ian
>
>They had a lot of company, and the residents here have a very short memory.
>Datong was second. Comdel made an RF clipper in the late 60's and early
>70's. Mike input and amplifier, mixed up to 455 KHz, sideband generated,
>clipped the hell out of it, filtered it with a second filter, mixed back
>down to audio with the same LO for injection to your mike input jack. Every
>serious contester and DXer had one. Cost more than the receiver.
>
>W4ZCB
>
Yes, a quick Google on "RF clipper"+Datong brings up lots of info -
about Datong and lots of others. This is one of the first:
http://www.qsl.net/m0ezp/radio-datong.html
--
Ian


From -2105403211952202093
```

```
X-Google-Thread: fc2a5,de74a8251b9c2970
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: TimeWarner discontinues usenet news
Date: 12 Jun 2008 14:12:06 GMT
Lines: 28
Message-ID: <slrng52blm.2upk.bit-bucket@shell.config.com>
References: <ord054hr1qdqk2bn1728o7trdk6cq85vqa@4ax.com>
<Xns9ABAA08623FC3VeebleFetzer@127.0.0.1>
<pan.2008.06.12.07.18.02.942266@localhost.localdomain>
Reply-To: If you must, <Reply_to@my.sig.adr>
X-Trace: individual.net WPe/ys17YOAEhfu3tMQx3QHuTJbWECCbuQm+QmGk/0ck4PT9tf
Cancel-Lock: sha1:TMKTOFPF7O/ceVE/YwdzRSrJzuM=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:178

On Thu, 12 Jun 2008 00:18:02 -0700, geek wrote:
> On Wed, 11 Jun 2008 20:46:48 +0000, Bert Hyman wrote:
>> control@control.com (andrew cuomo) wrote
>>
>>> No more usenet news for RoadRunner users as of June 23.
>>> You have to sign up with a pay service.
>>
>> There are free USENET providers, and some very cheap ones.
>>
>> http://www.motzarella.org/
>> http://www.aioe.org/
>> http://www.readfreenews.net/
>> http://www.individual.net/
>> http://www.octanews.com/ [Full-service provider, not so cheap]
>
> I'm on Octanews and buy blocks. They rock!

Highly recommedned:         http://individual.net/

I've been with them for nearly ten years now.  That's two lifetimes in
internet years.  It's just 10 Euros per year and they have a pretty good
track record on killing most spam.  No binaries, tho'

Jonesy
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    *** Killfiling google posts: <http://jonz.net/ng.htm>


From -5314654253916246969
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
```

X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
34g2000hsh.googlegroups.com!not-for-mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Thu, 12 Jun 2008 08:35:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 10
Message-ID: <28149a87-09f2-4778-aece-7533b162308f@34g2000hsh.googlegroups.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
<jZX1k.2010$nD3.912@newsfe15.lga>
<57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
<86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
<i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com> <75671283-a0ce-469c-a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
<sl1154du7jqb1g99kin78cssmsods2dqjg@4ax.com>
<zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
<c2363b23-32a8-4578-b3f2-e9ee71eeb050@d1g2000hsg.googlegroups.com>
<CY6CqrA2ZRUIFwKg@g3ohx.demon.co.uk>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1213284920 1211 127.0.0.1 (12 Jun 2008 15:35:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 12 Jun 2008 15:35:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 34g2000hsh.googlegroups.com; posting-host=216.203.30.4;
posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.cb:579 rec.radio.amateur.equipment:184
rec.radio.amateur.homebrew:179

> As I said. "Obviously they have to contain 'all the works' (oscillator,
> balanced modulator, compressor, clipper, filters, balanced demodulator
> etc)."

That sounds very complex and expensive all right.
Another problem I see is that they only work on SSB.
My customers insist on something small that fits inside the radio and
processes in all modes. The VoiceMax does that with less than 1% THD.
Can't build them fast enough to keep them in stock...

From -4722015377996954399
X-Google-Thread: fc2a5,de74a8251b9c2970
X-Google-Attributes: gidfc2a5,domainid0,public,usenet

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.cpinternet!news.posted.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 12 Jun 2008 11:56:29 -0500
Date: Thu, 12 Jun 2008 11:57:43 -0500
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: TimeWarner discontinues usenet news
References: <ord054hr1qdqk2bn1728o7trdk6cq85vqa@4ax.com>
<Xns9ABAA08623FC3VeebleFetzer@127.0.0.1>
In-Reply-To: <Xns9ABAA08623FC3VeebleFetzer@127.0.0.1>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <WeKdndMnj8GgyMzVnZ2dnUVZ_s3inZ2d@posted.cpinternet>
Lines: 21
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.251.177.106
X-Trace:
sv3-7HeMhQHmYqsscaf98mMD2BkD1RrNsmsmoO2Qt0uHCuqKPkhm5KhRXsh4F0YxAjQwKmVc8BwmGqkHkd
E!X2jxk00xJGvg2oy0Eqd/YBFNajpDSwGbRT8Ykq2RGrqZ2r7lw1z5TIutAoim+h5VDr2l+8WDOT4D!
govJPCsvLye+Dx9QNCTX6A==
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:180

Bert Hyman wrote:

> control@control.com (andrew cuomo) wrote in
> news:ord054hr1qdqk2bn1728o7trdk6cq85vqa@4ax.com:
>
>
>>No more usenet news for RoadRunner users as of June 23.  You have to
>>sign up with a pay service.
>
>
> There are free USENET providers, and some very cheap ones.
>

<snip>
> http://www.aioe.org/

Please don't recommend this one; it is plagued with forgers
and spammers and has chosen to block groups like sci.electronics.repair
instead of policing its users.
```

Michael

```
From -4469834416067148889
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!
newsfeed00.sul.t-online.de!t-online.de!peer-uk.news.demon.net!kibo.news.demon.net!
news.demon.co.uk!demon!g3ohx.demon.co.uk!ianREMOVETHISjackson
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Thu, 12 Jun 2008 19:15:35 +0100
Lines: 20
Message-ID: <HPmzvkAHfWUIFw7X@g3ohx.demon.co.uk>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
 <jZX1k.2010$nD3.912@newsfe15.lga>
 <57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
 <86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
 <i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com>
 <75671283-a0ce-469c-a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
 <sl1154du7jqb1g99kin78cssmsods2dqjg@4ax.com>
 <zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
 <c2363b23-32a8-4578-b3f2-e9ee71eeb050@d1g2000hsg.googlegroups.com>
 <CY6CqrA2ZRUIFwKg@g3ohx.demon.co.uk>
 <28149a87-09f2-4778-aece-7533b162308f@34g2000hsh.googlegroups.com>
NNTP-Posting-Host: g3ohx.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1213294540 3314 80.176.138.122 (12 Jun 2008 18:15:40
GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Thu, 12 Jun 2008 18:15:40 +0000 (UTC)
User-Agent: Turnpike/6.06-S (<GkbqWeJqKPDUPPCjoQFoeEAepr>)
Xref: g2news1.google.com rec.radio.cb:582 rec.radio.amateur.equipment:185
rec.radio.amateur.homebrew:181

In message
<28149a87-09f2-4778-aece-7533b162308f@34g2000hsh.googlegroups.com>,
Telstar Electronics <briangriffey@sbcglobal.net> writes
>
>> As I said. "Obviously they have to contain 'all the works' (oscillator,
>> balanced modulator, compressor, clipper, filters, balanced demodulator
>> etc)."
>
>That sounds very complex and expensive all right.
>Another problem I see is that they only work on SSB.
>My customers insist on something small that fits inside the radio and
>processes in all modes. The VoiceMax does that with less than 1% THD.
```

>Can't build them fast enough to keep them in stock...

Why do you think that they only work on SSB? Stand-alone RF clippers
like the Datong are independent of transmit mode. They are audio in -
audio out (with a bit of RF magic in between). They should work even on
an audio PA system.
--
Ian

```
From 8325427125526278871
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!r66g2000hsg.googlegroups.com!not-for-
mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Thu, 12 Jun 2008 13:00:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 7
Message-ID: <284b2da4-e248-436d-b260-de3891e6005c@r66g2000hsg.googlegroups.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
     <jZX1k.2010$nD3.912@newsfe15.lga>
<57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
     <86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
     <i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com> <75671283-a0ce-469c-
a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
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<zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
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     <CY6CqrA2ZRUIFwKg@g3ohx.demon.co.uk> <28149a87-09f2-4778-
aece-7533b162308f@34g2000hsh.googlegroups.com>
     <HPmzvkAHfWUIFw7X@g3ohx.demon.co.uk>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1213300822 3763 127.0.0.1 (12 Jun 2008 20:00:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 12 Jun 2008 20:00:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r66g2000hsg.googlegroups.com; posting-host=216.203.30.4;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.cb:584 rec.radio.amateur.equipment:186
rec.radio.amateur.homebrew:182
```

> Why do you think that they only work on SSB? Stand-alone RF clippers
> like the Datong are independent of transmit mode. They are audio in -
> audio out (with a bit of RF magic in between). They should work even on
> an audio PA system.

OK, thanks for your input.

```
From 1129072933775536466
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!198.186.194.249.MISMATCH!transit3.readnews.com!news-
xxxfer.readnews.com!news-out.readnews.com!postnews3.readnews.com!
nr2.newsreader.com.POSTED!not-for-mail
Subject: Re: VoiceMax Speech Processor...
From: Steve <moparholic@hotmail.com>
Organization: wha?
Message-ID: <20080612234308.760$aU@newsreader.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
<jZX1k.2010$nD3.912@newsfe15.lga> <57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
<86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
<i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com> <75671283-a0ce-469c-
a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
<sl1154du7jqb1g99kin78cssmsods2dqjg@4ax.com> <zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
<c2363b23-32a8-4578-b3f2-e9ee71eeb050@d1g2000hsg.googlegroups.com>
<CY6CqrA2ZRUIFwKg@g3ohx.demon.co.uk> <28149a87-09f2-4778-
aece-7533b162308f@34g2000hsh.googlegroups.com>
<HPmzvkAHfWUIFw7X@g3ohx.demon.co.uk>
X-NRC-Trace: NewsReader.Com _DCiMCj/bEwHYjsDvk+3U0/so=HRLAIGa+G.xh2FVV+MIZSIF
Date: 13 Jun 2008 03:43:05 GMT
Lines: 24
NNTP-Posting-Host: a267d200.nr2.newsreader.com
X-Trace: DXC=QX4HE8W0XeHJKWBF7D@o;IOA8_@f\K_iB0V\?
8`j4eWK0BkJ8]9Qb5GNd7biGRhQTGYA@MLbHKH8MF;m:B>1l1MD
X-Complaints-To: abuse@newsreader.com
Xref: g2news1.google.com rec.radio.cb:587 rec.radio.amateur.equipment:187
rec.radio.amateur.homebrew:183
```

Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
> In message
> <28149a87-09f2-4778-aece-7533b162308f@34g2000hsh.googlegroups.com>,
> Telstar Electronics <briangriffey@sbcglobal.net> writes
> >
> >> As I said. "Obviously they have to contain 'all the works'
> >> (oscillator, balanced modulator, compressor, clipper, filters,
> >> balanced demodulator etc)."

```
> >
> >That sounds very complex and expensive all right.
> >Another problem I see is that they only work on SSB.
> >My customers insist on something small that fits inside the radio and
> >processes in all modes. The VoiceMax does that with less than 1% THD.
> >Can't build them fast enough to keep them in stock...
>
> Why do you think that they only work on SSB? Stand-alone RF clippers
> like the Datong are independent of transmit mode. They are audio in -
> audio out (with a bit of RF magic in between). They should work even on
> an audio PA system.
>
Berhinger has consumed that nitch now, especially with ESSB.

--
                    http://NewsReader.Com/


From -3003756462305542033
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
z66g2000hsc.googlegroups.com!not-for-mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Fri, 13 Jun 2008 05:44:37 -0700 (PDT)
Organization: http://groups.google.com
Lines: 6
Message-ID: <51fe3db0-9316-462e-88b7-5a32215a1905@z66g2000hsc.googlegroups.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
     <jZX1k.2010$nD3.912@newsfe15.lga>
<57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
     <86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
     <i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com> <75671283-a0ce-469c-
a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
     <sl1154du7jqb1g99kin78cssmsods2dqjg@4ax.com>
<zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
     <c2363b23-32a8-4578-b3f2-e9ee71eeb050@d1g2000hsg.googlegroups.com>
     <CY6CqrA2ZRUIFwKg@g3ohx.demon.co.uk> <28149a87-09f2-4778-
aece-7533b162308f@34g2000hsh.googlegroups.com>
     <HPmzvkAHfWUIFw7X@g3ohx.demon.co.uk> <20080612234308.760$aU@newsreader.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1213361077 19050 127.0.0.1 (13 Jun 2008 12:44:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 13 Jun 2008 12:44:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
```

```
Injection-Info: z66g2000hsc.googlegroups.com; posting-host=216.203.30.4;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.cb:589 rec.radio.amateur.equipment:188
rec.radio.amateur.homebrew:184
```

> Berhinger has consumed that nitch now, especially with ESSB.

LOL... a unit like that (http://www.nu9n.com/deq2496.html) would cost
you at least $300. That's more than your whole station is worth!
Come on... you know how frugal hams & cbers are. Get real.
www.telstar-electronics.com

```
From 1602311730874549906
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!
newshosting.com!198.186.194.249.MISMATCH!transit3.readnews.com!
textspool1.readnews.com!transit4.readnews.com!news-out.readnews.com!
postnews3.readnews.com!nr2.newsreader.com.POSTED!not-for-mail
Subject: Re: VoiceMax Speech Processor...
From: Steve <moparholic@hotmail.com>
Organization: wha?
Message-ID: <20080613090328.900$sv@newsreader.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
<jZX1k.2010$nD3.912@newsfe15.lga> <57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
<86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
<i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com> <75671283-a0ce-469c-
a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
<sl1154du7jqb1g99kin78cssmsods2dqjg@4ax.com> <zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
<c2363b23-32a8-4578-b3f2-e9ee71eeb050@d1g2000hsg.googlegroups.com>
<CY6CqrA2ZRUIFwKg@g3ohx.demon.co.uk> <28149a87-09f2-4778-
aece-7533b162308f@34g2000hsh.googlegroups.com>
<HPmzvkAHfWUIFw7X@g3ohx.demon.co.uk> <20080612234308.760$aU@newsreader.com>
<51fe3db0-9316-462e-88b7-5a32215a1905@z66g2000hsc.googlegroups.com>
X-NRC-Trace: NewsReader.Com oLSP7LhH=wQURJoRsJqnL7iGfi_hApyOsMAoAJGo=Fn8h_QnF
Date: 13 Jun 2008 13:03:28 GMT
Lines: 17
NNTP-Posting-Host: 6a0acfea.nr2.newsreader.com
X-Trace: DXC=YGlWVHK7SB;f860oHUok?
=OA8_@f\K_i2mCe^_jV>WB8=7BkikUZjb<Nd7biGRhQT7<SVPgDF]AC4aHhgi;HU_^0
X-Complaints-To: abuse@newsreader.com
Xref: g2news1.google.com rec.radio.cb:590 rec.radio.amateur.equipment:190
rec.radio.amateur.homebrew:185
```

```
Telstar Electronics <briangriffey@sbcglobal.net> wrote:
> > Berhinger has consumed that nitch now, especially with ESSB.
>
> LOL... a unit like that (http://www.nu9n.com/deq2496.html) would cost
> you at least $300. That's more than your whole station is worth!
>
Dream on, Brian. You can't touch my ts870 for less than $1000, more like
$1200 if you can find one.
>
> Come on... you know how frugal hams & cbers are. Get real.
> www.telstar-electronics.com
>
I'm hearing more and more voodoo audio these days so there are plenty of
stations running rack gear, try more listening and less spamming your junk.

--
                    http://NewsReader.Com/


From 3129525596015289962
X-Google-Thread: fc2a5,de74a8251b9c2970
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news3.google.com!
out03a.usenetserver.com!news.usenetserver.com!in01.usenetserver.com!
news.usenetserver.com!spln!extra.newsguy.com!newsp.newsguy.com!mzenier
From: mzenier@eskimo.com (Mark Zenier)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: TimeWarner discontinues usenet news
Date: Thu, 12 Jun 2008 19:22:36 GMT
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 32
Message-ID: <g2u4ni01map@enews2.newsguy.com>
References: <ord054hr1qdqk2bn1728o7trdk6cq85vqa@4ax.com>
<73e8302877856ce455b0aa763b35bb9e@grapevine.islandnet.com>
NNTP-Posting-Host:
p34d1bfbfff00000075d74a17a612d9d6714a05f946e87fc7e896643f5c8e55d6.newsdawg.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:186

In article <73e8302877856ce455b0aa763b35bb9e@grapevine.islandnet.com>,
Robert Smits  <bob@rsmits.ca> wrote:
>andrew cuomo wrote:
>
>> No more usenet news for RoadRunner users as of June 23.  You have to
>> sign up with a pay service.
>>
>> For questions call Time Warner central: 203-328-0600.
>>
>> Press 2 to get the "Office of the President".  Stay on the line to
>> talk to the "Customer Care Advocate."
>>
>> A nice person will take your message. They even say they will look
>> into it and call back.
```

```
>
>
>I sure hope some Time-Warner subscribers institute a class action lawsuit
>against them for taking away a big part of the internet for their
>customers.

According to an article in yesterday's newspaper, (Seattle Times, sourced
from the Christian Science Monitor and the AP), they're protecting their
customers from child pornography.

Which means that they were too incompetent to run a text only server
with a binaries filter.

Mark Zenier  mzenier@eskimo.com
Googleproofaddress(account:mzenier provider:eskimo domain:com)
```

```
From 8749099509122731873
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!27g2000hsf.googlegroups.com!not-for-
mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Fri, 13 Jun 2008 11:00:42 -0700 (PDT)
Organization: http://groups.google.com
Lines: 7
Message-ID: <e8b50bfb-ce24-450c-aa8f-30cce054d9f4@27g2000hsf.googlegroups.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
     <jZX1k.2010$nD3.912@newsfe15.lga>
<57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
     <86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
     <i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com> <75671283-a0ce-469c-
a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
     <sl1154du7jqb1g99kin78cssmsods2dqjg@4ax.com>
<zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
     <c2363b23-32a8-4578-b3f2-e9ee71eeb050@d1g2000hsg.googlegroups.com>
     <CY6CqrA2ZRUIFwKg@g3ohx.demon.co.uk> <28149a87-09f2-4778-
aece-7533b162308f@34g2000hsh.googlegroups.com>
     <HPmzvkAHfWUIFw7X@g3ohx.demon.co.uk> <20080612234308.760$aU@newsreader.com>
     <51fe3db0-9316-462e-88b7-5a32215a1905@z66g2000hsc.googlegroups.com>
     <20080613090328.900$sv@newsreader.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
```

```
X-Trace: posting.google.com 1213380043 11144 127.0.0.1 (13 Jun 2008 18:00:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 13 Jun 2008 18:00:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 27g2000hsf.googlegroups.com; posting-host=216.203.30.4;
     posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.cb:595 rec.radio.amateur.equipment:191
rec.radio.amateur.homebrew:187

> Dream on, Brian. You can't touch my ts870 for less than $1000, more like
> $1200 if you can find one.

You mean that old beat up one you got at the garage sale?
I didn't know you ever got that thing working since it was under water
and so rusty inside.
Kudos on your technician skills... fixing up that old dog.



From 5796209701092008029
X-Google-Thread: fc2a5,75bf3540f812b9dc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.posted.tivoinc!news.posted.tivoinc.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 13 Jun 2008 18:08:03 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Causes of IF feedthru
References: <4jU3k.209778$ng7.171642@en-nntp-05.dc1.easynews.com>
<4sj5i5-0no.ln1@radagast.org> <QOX3k.186355$fB7.45727@en-nntp-06.dc1.easynews.com>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Fri, 13 Jun 2008 16:05:34 -0700
Message-ID: <u2bbi5-8du.ln1@radagast.org>
Lines: 76
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.159.209.148
X-Trace: sv3-tPpIq2Zrd4hK2ym9oVrprmsh8VVFayevYYON7e4Q5gDfbF/K/
dhR+JxCICFAXxR01Wyd8gFxz9G0ljz!Xu2tdvWpDVzRYm6XwZ/pQExXIdp5MCd2+OTDuNwE/eg8Fl/
enocS8pTmJURgKA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:188


In article <QOX3k.186355$fB7.45727@en-nntp-06.dc1.easynews.com>,
```

Joel Koltner <zapwireDASHgroups@yahoo.com> wrote:

>Hi Dave,
>
>Thanks for the information; it's quite helpful!
>
>I was (am) committing the faux pas of feeding the mixer output directly into a
>narrow bandpass filter...
>
>> For example, the popular
>> Mini-Circuits SBL-1 mixer seems to have LO-to-IF isolations of
>> anywhere from better than 65 dB (at HF) down to around 30 dB (at UHF).
>> If you're trying to tune a weak signal (say, 80 or 90 dB weaker than
>> the LO signal) then the residual LO feedthrough can cause the sort of
>> swamping you're seeing.
>
>So... say I'm using a 45MHz IF, trying to tune 414MHz using the SBL-1 and an
>LO of 414-45=369MHz (low-side injection) at the SBL-1's recommended +7dBm.
>Presumably I'll see a 7dBm - 30dB (LO-IF isolation) = -23dBm signal at the IF,
>but it should still be at 369MHz, right? How does the LO "bleed through" to
>the 45MHz IF... and what power level should I expect to see there?

I'd say that you could be seeing the 369 MHz LO signal in your IF pathway through a number of mechanisms.

First: some of it may be getting past your bandpass filter. If you're using a crystal filter, you may find (if you look) that the filter's stopband attenuation is neither wonderful nor flat at some frequencies. Crystals often have secondary resonances at (or near) the harmonics of their fundamental frequency - that's how overtone filters work - and your LO of 369 MHz isn't all that far from the 8th harmonic of your IF frequency.

You'd probably need to sweep your filter's response (wideband oscillator plus an RF detector or a spectrum analyzer) to determine if this is occurring.

If this is the problem, you might remedy it by adding a one- or two-stage passive lowpass filter (maybe LC, maybe just RC) somewhere after the mixer and before the final detector. This would attenuate out the residual LO signal that the bandpass filter doesn't. Maybe run the mixer output into that grounded-base/source 50-ohm buffer amp I suggested, gain a few dB, and then run the signal into a slightly lossy low-pass filter whose output presents your bandpass filter with the termination impedance it expects?

Second: you may be getting parasitic transmission of the LO signal *around* the bandpass filter - either capacitive or inductive. If your bandpass filter is a tuned LC type rather than a crystal filter, there might be coupling between the inductors.

Third: you might be getting some LO pickup by the gain stages in the IF path, direct from the local oscillator - wire-to-wire coupling or something like that.

Fourth: you might be getting LO wandering around on the power supply
lines or in the ground paths/planes - insufficient power-supply
decoupling, shared power-supply wires, shared ground paths, and so
forth.

I get the impression that careful attention to layout, shielding, and
decoupling are very important for higher-performance receivers. Some
builders seem to prefer to place the LO, mixer, and filter in separate
shielded sub-compartments (soldered together from double-sided PC
board material if nothing else), to carry the signals between these
compartments on shielded coax, and to use feedthrough caps and ferrite
beads on the power wiring. This helps minimize the various forms of
parasitic coupling between stages.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From 849186349026527698
X-Google-Thread: fc2a5,de74a8251b9c2970
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!indigo.octanews.net!auth.brown.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: TimeWarner discontinues usenet news
Date: Sat, 14 Jun 2008 00:46:38 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.06.14.07.46.36.403992@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <ord054hr1qdqk2bn1728o7trdk6cq85vqa@4ax.com>
<73e8302877856ce455b0aa763b35bb9e@grapevine.islandnet.com>
<g2u4ni01map@enews2.newsguy.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 35
Organization: Octanews
NNTP-Posting-Date: 14 Jun 2008 02:46:43 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:189

On Thu, 12 Jun 2008 19:22:36 +0000, Mark Zenier wrote:

> In article <73e8302877856ce455b0aa763b35bb9e@grapevine.islandnet.com>,
> Robert Smits <bob@rsmits.ca> wrote:
>>andrew cuomo wrote:
>>

```
>>> No more usenet news for RoadRunner users as of June 23.  You have to
>>> sign up with a pay service.
>>>
>>> For questions call Time Warner central: 203-328-0600.
>>>
>>> Press 2 to get the "Office of the President".  Stay on the line to
>>> talk to the "Customer Care Advocate."
>>>
>>> A nice person will take your message. They even say they will look
>>> into it and call back.
>>
>>
>>I sure hope some Time-Warner subscribers institute a class action lawsuit
>>against them for taking away a big part of the internet for their
>>customers.
>
> According to an article in yesterday's newspaper, (Seattle Times, sourced
> from the Christian Science Monitor and the AP), they're protecting their
> customers from child pornography.
>
> Which means that they were too incompetent to run a text only server
> with a binaries filter.
>
> Mark Zenier  mzenier@eskimo.com
> Googleproofaddress(account:mzenier provider:eskimo domain:com)

They are too incompetent to realize that they tend to be the SOURCE of the
USA child pornography, LOL!



From -5006731357793608975
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.194.249.MISMATCH!transit3.readnews.com!news-xxxfer.readnews.com!
transit4.readnews.com!textspool1.readnews.com!news-out.readnews.com!
postnews3.readnews.com!nr2.newsreader.com.POSTED!not-for-mail
Subject: Re: VoiceMax Speech Processor...
From: Steve <moparholic@hotmail.com>
Organization: wha?
Message-ID: <20080614150239.168$CE@newsreader.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
<jZX1k.2010$nD3.912@newsfe15.lga> <57aj44516jdqbjs8cte07430ojlqg9jsab@4ax.com>
<86661d25-63a3-4c05-8938-a2beab33a577@w7g2000hsa.googlegroups.com>
<i8lv44d54cbviahpbctun3h843r3467m3d@4ax.com> <75671283-a0ce-469c-
a9b0-37b1bc451672@m45g2000hsb.googlegroups.com>
<sl1154du7jqb1g99kin78cssmsods2dqjg@4ax.com> <zmhuVNIYhNUIFwPF@g3ohx.demon.co.uk>
```

```
<c2363b23-32a8-4578-b3f2-e9ee71eeb050@d1g2000hsg.googlegroups.com>
<CY6CqrA2ZRUIFwKg@g3ohx.demon.co.uk> <28149a87-09f2-4778-
aece-7533b162308f@34g2000hsh.googlegroups.com>
<HPmzvkAHfWUIFw7X@g3ohx.demon.co.uk> <20080612234308.760$aU@newsreader.com>
<51fe3db0-9316-462e-88b7-5a32215a1905@z66g2000hsc.googlegroups.com>
<20080613090328.900$sv@newsreader.com> <e8b50bfb-ce24-450c-
aa8f-30cce054d9f4@27g2000hsf.googlegroups.com>
X-NRC-Trace: NewsReader.Com fFVNQf09ZOjblFrd=Yg5=zkDs+0Ez5fk,e=gXk_AwAE6-2VwTM
Date: 14 Jun 2008 19:02:37 GMT
Lines: 13
NNTP-Posting-Host: cfabbefe.nr2.newsreader.com
X-Trace: DXC=f4LJ4]W>AYE54lN_WT@d4LOA8_@f\K_iB0V\?
8`j4eWKVo\MCe4<ChHNd7biGRhQTG<SVPgDF]ACDed<@?9?9QeM
X-Complaints-To: abuse@newsreader.com
Xref: g2news1.google.com rec.radio.cb:606 rec.radio.amateur.equipment:199
rec.radio.amateur.homebrew:190

Telstar Electronics <briangriffey@sbcglobal.net> wrote:
> > Dream on, Brian. You can't touch my ts870 for less than $1000, more
> > like $1200 if you can find one.
>
> You mean that old beat up one you got at the garage sale?
> I didn't know you ever got that thing working since it was under water
> and so rusty inside.
> Kudos on your technician skills... fixing up that old dog.
>
What the hell are you smoking, Brian? I traded an ft-920 for this 870.

--
                    http://NewsReader.Com/


From 6341822808696706531
X-Google-Thread: fc2a5,75bf3540f812b9dc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!news-out.readnews.com!
transit3.readnews.com!panix!panix3.panix.com!arthures
From: A <arthures@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Causes of IF feedthru
Date: Sat, 14 Jun 2008 17:45:54 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 63
Message-ID: <Pine.NEB.4.64.0806141738020.5719@panix3.panix.com>
References: <4jU3k.209778$ng7.171642@en-nntp-05.dc1.easynews.com>
 <Pine.NEB.4.64.0806111740380.7962@panix3.panix.com>
 <oeY3k.184451$6i4.72014@en-nntp-03.dc1.easynews.com>
NNTP-Posting-Host: panix3.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1213479956 21819 166.84.1.3 (14 Jun 2008 21:45:56 GMT)
```

X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 14 Jun 2008 21:45:56 +0000 (UTC)
In-Reply-To: <oeY3k.184451$6i4.72014@en-nntp-03.dc1.easynews.com>
X-Original-Bytes: 4031
Xref: g2news1.google.com rec.radio.amateur.homebrew:191

See at end...

On Wed, 11 Jun 2008, Joel Koltner wrote:

> "A" <arthures@panix.com> wrote in message
> news:Pine.NEB.4.64.0806111740380.7962@panix3.panix.com...
>> At this point I'd like to know what your problem is with "significant amount
>> of energy..." compared to whatever your ultimate goal is.
>
> I'll get something in the ballpark of an -90dBm spur at the IF when the noise
> floor is down around, say, -120dBm. Hence I have a harder time recovering
> signals at, say, -100dBm even though they still have a decent SNR (and my
> commercial receives have no difficulty at all hearing them). This is measured
> on an Agilent 8563 spectrum analyzer.
>
>> Could your PLL synthesizer be dirtier than you think?
>
> I've done some wideband sweeps of it, and there are some spurs that are only
> ~ -70dBc. It's obvious when you choose a channel that suffers from these
> higher-level spurs, though... it'll add 20dB or more to the IF spur. I
> ditched my homebrew PLL-based synthesizer for a good HP box borrowed for
> testing, though (its spurs are more like -90dBc worst case), and the problem
> is still there.
>
>> One way I would think about this is to ask if you looked at known circuits
>> that work and ask yourself what are you doing that is different from known
>> circuits that work.
>
> The usual problem is that very few circuits found on the Internet actually
> come with performance data -- unless you build them yourself, you really have
> no way to know if they're just as bad or worse than your own efforts!
>
>> We also had some posts maybe 1-2 years ago where a guy was working with
>> chips and circuits and computer modelling (IIRC) and he was unhappy that he
>> was not getting (with real circuits) what his computer modeling program told
>> him he was supposed to get.
>
> It would almost be alarming if those circuits did work, in real life, within,
> say, 0.1dB of their simulated results rather than the more typical 1-5dB
> that's often still considered "good agreement!"

I don't recall what the guy was upset about. I don't think (IIRC) that we
had any comments regarding what, quantitatively, he was looking for vs.
what he was getting, quantitatively, but he was definitely upset.

I don't have anything like the fancy gear you have and my criteria are more or less "if you can hear it and its OK with you, then its fine" (for receivers anyway). On transmit, I have enough tuned circuits in various places that my spurious signals should be good enough for the FCC. And, I'm using quite clean free running oscillators at VFO, LO points. Its really wonderful to be able to see sine waves on any one of my three Tektronixs scopes, thought. I'll add that if I don't have at least some minimum number of tuned circuits, that "sine wave" develops very visible "distortions." Maybe someday I'll be interested in quantitating them.

In the meantime, good luck on your endeavors. And, thanks for the fills on the technical stuff. Can't help you any more than that.

> ---Joel
>
>
>

```
From 1195160543370122006
X-Google-Thread: fc2a5,1f150593ae61c212,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 14 Jun 2008 20:44:04 -0500
Date: Sat, 14 Jun 2008 18:44:04 -0700
From: Gary <gbelcas@comcast.net>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: teflon wire
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <atKdnUYS1-t57snVnZ2dnUVZ_r7inZ2d@comcast.com>
Lines: 7
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 67.170.123.87
X-Trace: sv3-
dGp1izKdKIY95pPcfXRM5Hn0rkaNWjygt1+HdTKdqomMJhpLw3f7wFCud8EIsskAZCakFCsjzfZulCT!
T1HMiaro0bhQH88VEOB9OVRrytiNYtS0KzQezWo6Bgz8HgEtjCXJoHLKKjWrdJ0F5/d1EAjWmF8X!
w3hspeOTqU4cM47tvY/G0mwg3VR6Jg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:192
```

Looking for #20 teflon wire and of course need only a short length.

Anyone out there have a favorite wire distributor who takes pity on us
homebrew types and sells by the foot?? Thanks all.

gary

```
From -1536860467446047800
X-Google-Thread: fc2a5,1f150593ae61c212
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 14 Jun 2008 21:32:50 -0500
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups: rec.radio.amateur.homebrew
References: <atKdnUYS1-t57snVnZ2dnUVZ_r7inZ2d@comcast.com>
Subject: Re: teflon wire
Date: Sat, 14 Jun 2008 22:32:49 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <IY6dnWxu4PzP4snVnZ2dnUVZ_s7inZ2d@comcast.com>
Lines: 37
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 66.177.11.1
X-Trace: sv3-bP2qgxgpRiNmlutJxeVegzNFiXJR8QoaFkd3UhSVoncENEbmFpvupHVpIuqBJGk8uis/
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wn7w6k0BAvsLteL97gB3kFLSmWIVYC4J+niH+pn5!X8M8nhE4KPdhGLtyd2k4gkJRb4I=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:193
```

"Gary" <gbelcas@comcast.net> wrote in message
news:atKdnUYS1-t57snVnZ2dnUVZ_r7inZ2d@comcast.com...

>
>
> Looking for #20 teflon wire and of course need only a short length. Anyone out
> there have a favorite wire distributor who takes pity on us
> homebrew types and sells by the foot?? Thanks all.
>
> gary

If you could get by with a smaller wire, like AWG 24 or so, you can find loads
of that stuff in Cat-5 cable. Just strip off the outer jacket and untwist the
pairs. Pretty cheap too. Don't know the voltage rating of the individual wires,

though.
Alltronics (http://www.alltronics.com) sells by the foot, although they have a 25 ft minimum. Seems the only color they have in stock is red.
Surplus Sales (http://www.surplussales.com/wire-cable/Wire4.html) has it in stock. again, 25 ft minimum.
Action Electronics seems to have the best color selection (http://www.action-electronics.com/ntehuwt.htm#20)
Amp Builders Parts (http://ampbuildersparts.com/store/index.php?main_page=index&cPath=34) also... 100 ft spools, but better price.

Hope you can find what you need from one of those links.

Cheers!!!!

--
Dave M
MasonDG44 at comcast dot net (Just substitute the appropriate characters in the address)

Experience: What you get when you don't get what you want

```
From -2647818744307206100
X-Google-Thread: fc2a5,1f150593ae61c212
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 14 Jun 2008 21:56:22 -0500
Message-ID: <485484D6.5060700@bloomer.net>
Date: Sun, 15 Jun 2008 02:56:22 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To: DaveM <masondg4499@comcast99.net>
Subject: Re: teflon wire
References: <atKdnUYS1-t57snVnZ2dnUVZ_r7inZ2d@comcast.com>
<IY6dnWxu4PzP4snVnZ2dnUVZ_s7inZ2d@comcast.com>
In-Reply-To: <IY6dnWxu4PzP4snVnZ2dnUVZ_s7inZ2d@comcast.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 40
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
oTRBlKXiaFVIUeEowTU8heRizqEuVg1phRdnktM7zkwF4DzRHN+dN1vTl02CdNcOkUARAOo2J20Lh0y!
```

```
ebuiWKi/isewTcndMd5AHl4/r39gr2OvlNLe6tj1sfk9w87l5eD26Ag53f74f0rY4w==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:194

DaveM wrote:
> "Gary" <gbelcas@comcast.net> wrote in message
> news:atKdnUYS1-t57snVnZ2dnUVZ_r7inZ2d@comcast.com...
>
>>
>>Looking for #20 teflon wire and of course need only a short length. Anyone out
>>there have a favorite wire distributor who takes pity on us
>>homebrew types and sells by the foot??  Thanks all.
>>
>>gary
>
>
>
> If you could get by with a smaller wire, like AWG 24 or so, you can find loads
> of that stuff in Cat-5 cable.  Just strip off the outer jacket and untwist the
> pairs. Pretty cheap too.  Don't know the voltage rating of the individual wires,
> though.
> Alltronics (http://www.alltronics.com) sells by the foot, although they have a
> 25 ft minimum.  Seems the only color they have in stock is red.
> Surplus Sales (http://www.surplussales.com/wire-cable/Wire4.html) has it in
> stock. again, 25 ft minimum.
> Action Electronics seems to have the best color selection
> (http://www.action-electronics.com/ntehuwt.htm#20)
> Amp Builders Parts
> (http://ampbuildersparts.com/store/index.php?main_page=index&cPath=34) also...
> 100 ft spools, but better price.
>
> Hope you can find what you need from one of those links.
>
> Cheers!!!!
>
I have plenty of #22 stranded teflon wire if this will work for you.  I
have black and white.  How much do you need?  It's yours for the asking
if you only need something like 20 or 25 feet or so.  Send me a postal
address or callsign I can look up in qrz.com and I send you some if you
can use it.  acepilot at bloomer dot net.


Scott
N0EDV


From 4259773788987766116
X-Google-Thread: fc2a5,1f150593ae61c212
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news1.google.com!news4.google.com!feeder3.cambrium.nl!feeder6.cambrium.nl!feeder2.cambrium.nl!feed.tweaknews.nl!193.201.147.86.MISMATCH!news.astraweb.com!border1.a.newsrouter.astraweb.com!hwmnpeer01.ams!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe18.lga.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <atKdnUYS1-t57snVnZ2dnUVZ_r7inZ2d@comcast.com>
Subject: Re: teflon wire
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <67c5k.1163$F97.592@newsfe18.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe18.lga 1213550146 72.209.25.33 (Sun, 15 Jun 2008 10:15:46 MST)
NNTP-Posting-Date: Sun, 15 Jun 2008 10:15:46 MST
Organization: Cox
Date: Sun, 15 Jun 2008 13:15:31 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:196

"Gary" <gbelcas@comcast.net> wrote in message
news:atKdnUYS1-t57snVnZ2dnUVZ_r7inZ2d@comcast.com...
>
>
> Looking for #20 teflon wire and of course need only a short length. Anyone
> out there have a favorite wire distributor who takes pity on us
> homebrew types and sells by the foot?? Thanks all.
>
> gary

What color do you need? I have some short lengths in stock
of various colors, including some striped stuff. Give me an
address and I'll send you some for the price of the postage.
I'm not sure it is exactly 20 gauge, but it is stranded and darn
close to that size.

Let me know. My email is radioconnection (at) juno (dot) com.
I'll get it out to you if you wish. Send back the postage if you're
happy afterwards.

Pete k1zjh

From 2830244996087772424
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607

```
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 16 Jun 2008 07:38:06 -0500
Message-ID: <48565EB4.4010800@qrparci.org>
Date: Mon, 16 Jun 2008 08:38:12 -0400
From: NoMoreSpam <Disgustedham@qrparci.org>
User-Agent: Thunderbird 2.0.0.9 (X11/20071031)
MIME-Version: 1.0
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
To: Telstar Electronics <briangriffey@sbcglobal.net>
Subject: Re: VoiceMax Speech Processor...
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
     <92419105-6fbe-4dbf-b971-7454304c514f@27g2000hsf.googlegroups.com>
<17c8be37-7531-42a2-b8e5-124dae1584cb@k13g2000hse.googlegroups.com>
In-Reply-To: <17c8be37-7531-42a2-b8e5-124dae1584cb@k13g2000hse.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 11
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 76.98.102.223
X-Trace: sv3-HUhKNA8ilou/2sENW6cz6fQIma489GlXIH4V/
JzsnHYZvgjp62kuKvWrHT846OVdCSoKxBJlIQLsq9C!
VG3+KhOpyelq0uKown1hWJGQ6rFZQ7pfv+5f4UVFTT/0NDrHkCddQH5oeV+9I/0+Hzi052GiAUwD!
PxBNB9bI
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.cb:621 rec.radio.amateur.equipment:205
rec.radio.amateur.homebrew:197

Telstar Electronics wrote:
>> Laura Halliday VE7LDH     "Non sequitur. Your ACKS are
>> Grid: CN89mg                    uncoordinated."
>> ICBM: 49 16.05 N 122 56.92 W       - Nomad the Network Engineer
>
> Good to hear from you Laura. You can see a photo of the Voicemax
> speech processor in a radio... right before the radio was buttoned up
> at http://tinyurl.com/2t2usu

Appropriately, a CB radio, illegally modified. Only a CBer would fall for this
"Speech Processor."


From 2066006611961336668
X-Google-Thread: 106d41,eaa82000c1ae5607
X-Google-Thread: 108122,eaa82000c1ae5607
X-Google-Thread: fc2a5,eaa82000c1ae5607
```

X-Google-Attributes: gid106d41,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!34g2000hsh.googlegroups.com!not-for-mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor...
Date: Mon, 16 Jun 2008 05:47:07 -0700 (PDT)
Organization: http://groups.google.com
Lines: 8
Message-ID: <931c7395-18c2-4037-a93e-a3225845e6ee@34g2000hsh.googlegroups.com>
References: <c58546f7-aa2a-40eb-91fe-525a3acc53c9@34g2000hsh.googlegroups.com>
<92419105-6fbe-4dbf-b971-7454304c514f@27g2000hsf.googlegroups.com>
<17c8be37-7531-42a2-b8e5-124dae1584cb@k13g2000hse.googlegroups.com>
<48565EB4.4010800@qrparci.org>
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Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1213620428 2400 127.0.0.1 (16 Jun 2008 12:47:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 16 Jun 2008 12:47:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 34g2000hsh.googlegroups.com; posting-host=216.203.30.4;
posting-account=CR5XAQoAAAC1S1Z7lBc-jLwjpA9oeUtM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.cb:622 rec.radio.amateur.equipment:206
rec.radio.amateur.homebrew:198

> Appropriately, a CB radio, illegally modified. Only a CBer would fall for this
> "Speech Processor."

Laura,
Evidently there are many radio operators worldwide that don't share
your views...
Thanks for your comment anyway...

From -434662454721279798
X-Google-Thread: fc2a5,1f150593ae61c212
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!e39g2000hsf.googlegroups.com!not-for-mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: teflon wire
Date: Mon, 16 Jun 2008 05:51:43 -0700 (PDT)
Organization: http://groups.google.com
Lines: 28

```
Message-ID: <486d0c50-9a40-497c-9064-b1f06e5dfa8d@e39g2000hsf.googlegroups.com>
References: <atKdnUYS1-t57snVnZ2dnUVZ_r7inZ2d@comcast.com>
     <67c5k.1163$F97.592@newsfe18.lga>
NNTP-Posting-Host: 142.162.129.19
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1213620703 3386 127.0.0.1 (16 Jun 2008 12:51:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 16 Jun 2008 12:51:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e39g2000hsf.googlegroups.com; posting-host=142.162.129.19;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:199

On Jun 15, 3:15=A0pm, "Tio Pedro" <radioconnect...@cox.net> wrote:
> "Gary" <gbel...@comcast.net> wrote in message
>
> news:atKdnUYS1-t57snVnZ2dnUVZ_r7inZ2d@comcast.com...
>
>
>
> > Looking for #20 teflon wire and of course need only a short length. Anyo=
ne
> > out there have a favorite wire distributor who takes pity on us
> > homebrew types and sells by the foot?? =A0Thanks all.
>
> > gary
>
> What color do you need? =A0I have some short lengths in stock
> =A0of various colors, including some striped stuff. =A0Give me an
> address and I'll send you some for the price of the postage.
> I'm not sure it is exactly 20 gauge, but it is stranded and darn
> close to that size.
>
> Let me know. My email is radioconnection (at) juno (dot) com.
> I'll get it out to you if you wish. Send back the postage if you're
> happy afterwards.
>
> Pete k1zjh

Question: Why teflon. Heat rating? Or high voltage insulation rating?
Just curious and willing to learn something! TIA terry


From -9104834303445173003
X-Google-Thread: fc2a5,75bf3540f812b9dc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news3.google.com!
```

```
out02b.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!
news.usenetserver.com!news-in-02.newsfeed.easynews.com!core-easynews!easynews.com!
easynews!en-nntp-03.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <4jU3k.209778$ng7.171642@en-nntp-05.dc1.easynews.com>
<4sj5i5-0no.ln1@radagast.org> <QOX3k.186355$fB7.45727@en-nntp-06.dc1.easynews.com>
<u2bbi5-8du.ln1@radagast.org>
Subject: Re: Causes of IF feedthru
Lines: 6
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <Oow5k.188101$6i4.148667@en-nntp-03.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Mon, 16 Jun 2008 09:19:52 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:200

Thanks Dave -- great post.  I think I need to take the tiny little ball of
mixer/filter I have, spread it out a bit, terminate all the ports properly,
and start making some measurements before connecting the IF filter, etc. back
up a piece at a time!




From 3229017670704870339
X-Google-Thread: fc2a5,75bf3540f812b9dc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
140.99.99.194.MISMATCH!news-in-02.newsfeed.easynews.com!core-easynews!
easynews.com!easynews!en-nntp-06.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <4jU3k.209778$ng7.171642@en-nntp-05.dc1.easynews.com>
<4sj5i5-0no.ln1@radagast.org> <QOX3k.186355$fB7.45727@en-nntp-06.dc1.easynews.com>
<00ed3557-3b12-4fad-b417-d60bf8f0615b@b1g2000hsg.googlegroups.com>
Subject: Re: Causes of IF feedthru
Lines: 3
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <apw5k.191979$fB7.148976@en-nntp-06.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
```

Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Mon, 16 Jun 2008 09:20:18 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:201

Thanks for the advice Tim; much appreciated!

From -4156828920908428013
X-Google-Thread: fc2a5,75bf3540f812b9dc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out01b.usenetserver.com!news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-in-02.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-nntp-07.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <4jU3k.209778$ng7.171642@en-nntp-05.dc1.easynews.com> <Pine.NEB.4.64.0806111740380.7962@panix3.panix.com> <oeY3k.184451$6i4.72014@en-nntp-03.dc1.easynews.com> <Pine.NEB.4.64.0806141738020.5719@panix3.panix.com>
Subject: Re: Causes of IF feedthru
Lines: 30
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <Nzw5k.186485$Gv.36342@en-nntp-07.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Mon, 16 Jun 2008 09:31:37 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:202

"A" <arthures@panix.com> wrote in message news:Pine.NEB.4.64.0806141738020.5719@panix3.panix.com...
> I don't have anything like the fancy gear you have and my criteria are more
> or less "if you can hear it and its OK with you, then its fine" (for
> receivers anyway).

I'm in a very fortuitous position, being somewhat a novice at RF design personally, but working at a company that's been doing it for years so I have access to a fair amount of nice test equipment. :-) Sometimes it's a little weird, though -- until a couple of years ago now we had network analyzers going to 6GHz but no scope better than 100MHz!

I think projects like the TAPR VNA (http://www.tapr.org/kits_vna.html -- now sold by Ten-Tec) are great, although it's unfortunate that it tops out at

100MHz, as in many cases one can "get by" with a lot less down at HF or even 2m than those trying to homebrew 70cm or higher gear. Even getting, say, 1GHz spectrum analyzers with tracking generators is not at all cheap (meaning, within most hobbyist's budgets, which I'd say is something $1k or less for such a device) -- there's been discussion on and off for ages on how such a tool would sell like hotcakes, given how much it would benefit homebrewers and commercial users. I kick around the idea of trying to build something like that myself, but I do already have enough experience to know that there's a very large investment in time between "design looks good on paper" and "design actually works" if you're shooting for decent dynamic ranges and resolution bandwidths.

Thanks for your input,
---Joel

From -8654919748069009635
X-Google-Thread: fc2a5,de74a8251b9c2970
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04a.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-
in-02.newsfeed.easynews.com!news-in-01.newsfeed.easynews.com!core-easynews!
easynews.com!easynews!en-nntp-01.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <ord054hr1qdqk2bn1728o7trdk6cq85vqa@4ax.com>
<73e8302877856ce455b0aa763b35bb9e@grapevine.islandnet.com>
<g2u4ni01map@enews2.newsguy.com>
Subject: Re: TimeWarner discontinues usenet news
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <jBw5k.158218$ea6.71575@en-nntp-01.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Mon, 16 Jun 2008 09:33:15 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:203

"Mark Zenier" <mzenier@eskimo.com> wrote in message
news:g2u4ni01map@enews2.newsguy.com...
> According to an article in yesterday's newspaper, (Seattle Times, sourced
> from the Christian Science Monitor and the AP), they're protecting their
> customers from child pornography.

Hahaha... but that logic, they're going to have to quit providing internet connections completely! I have no idea what the numbers are, but I suspect that a lot more child porn traverses HTTP than NTTP any day...

From -6670966025946664627
X-Google-Thread: fc2a5,1f150593ae61c212
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!l64g2000hse.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: teflon wire
Date: Mon, 16 Jun 2008 09:55:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
Message-ID: <ed9fb6bf-cad5-411e-b776-b5e9a6620c26@l64g2000hse.googlegroups.com>
References: <atKdnUYS1-t57snVnZ2dnUVZ_r7inZ2d@comcast.com>
NNTP-Posting-Host: 170.121.15.46
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1213635350 14891 127.0.0.1 (16 Jun 2008 16:55:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 16 Jun 2008 16:55:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l64g2000hse.googlegroups.com; posting-host=170.121.15.46;
posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:204

On Jun 14, 9:44=A0pm, Gary <gbel...@comcast.net> wrote:
> Looking for #20 teflon wire and of course need only a short length.
> Anyone out there have a favorite wire distributor who takes pity on us
> homebrew types and sells by the foot?? =A0Thanks all.
>
> gary

There are a number of guys on E-bay who sell short (5, 10, 50 ft) lengths of teflon hookup wire, usually the good silver-plated stranded stuff (although some oddball types like solid silver occasionally show up too!). Their main market seems to be audiophile amp builders.

CAT5E teflon wire has 24AWG conductors.

McMaster-Carr will sell you teflon tubing (no wire inside) by the foot. Add your own wire!

Tim.

```
From 6238368655333763793
X-Google-Thread: fc2a5,44aae470c998d154,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!transit3.readnews.com!news-out.readnews.com!news-xxxfer.readnews.com!news.infoave.net!news-in-02.newsfeed.easynews.com!news-in-01.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-nntp-07.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Wideband receiver architectures
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <rAA5k.186489$Gv.71007@en-nntp-07.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Mon, 16 Jun 2008 14:05:23 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:205
```

Just curious... does anyone know what sort of architecture you find in your typical HT or mobile "receives everything from 100kHz - 1.3GHz!" radio to generate such a vast range of frequencies while still keeping the prices so low (plenty are available for <$200, and I can't expect the LO makes up a particularly large percentage of that total price)? I would tend to lean towards something PLL-based given the typically channelized nature of available frequencies, but a single PLL would still need a VCO with a huge tuning range. So... perhaps a pair of mixed PLLs, with one doing the fine tuning and another the coarse tuning (having been multiplied up from a low frequency)?

I attempted to decipher the schematic included with my Yaesu FTM-10R, but everything is so tiny it was rather hopeless!

I don't suppose any of the reviews ever go through and sweep the LOs while watching for the worst case spur conditions, do they?

---Joel

```
From -5529381522045922404
X-Google-Thread: fc2a5,de74a8251b9c2970
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe21.lga.POSTED!7564ea0f!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <ord054hr1qdqk2bn1728o7trdk6cq85vqa@4ax.com>
<73e8302877856ce455b0aa763b35bb9e@grapevine.islandnet.com>
<g2u4ni01map@enews2.newsguy.com> <jBw5k.158218$ea6.71575@en-
nntp-01.dc1.easynews.com>
Subject: Re: TimeWarner discontinues usenet news
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <3NA5k.642$oY2.212@newsfe21.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe21.lga 1213651135 72.209.25.33 (Mon, 16 Jun 2008 14:18:55 MST)
NNTP-Posting-Date: Mon, 16 Jun 2008 14:18:55 MST
Organization: Cox
Date: Mon, 16 Jun 2008 17:18:37 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:206


"Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in message
news:jBw5k.158218$ea6.71575@en-nntp-01.dc1.easynews.com...
> "Mark Zenier" <mzenier@eskimo.com> wrote in message
> news:g2u4ni01map@enews2.newsguy.com...
>> According to an article in yesterday's newspaper, (Seattle Times, sourced
>> from the Christian Science Monitor and the AP), they're protecting their
>> customers from child pornography.
>
> Hahaha... but that logic, they're going to have to quit providing internet
> connections completely!  I have no idea what the numbers are, but I
> suspect that a lot more child porn traverses HTTP than NTTP any day...
>

All they have to do is to subscribe to a commercial news account
and they will have access to everything they had before, and more.

>




From 4881750274843626151
X-Google-Thread: fc2a5,44aae470c998d154
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news1.google.com!news3.google.com!news.germany.com!newsfeed.freenet.de!bolzen.all.de!newsfeed.ision.net!newsfeed2.easynews.net!ision!citadel.nobulus.com!fi.sn.net!newsfeed1.fi.sn.net!news.song.fi!not-for-mail
Date: Tue, 17 Jun 2008 00:22:14 +0300
From: Postipoika <pikkupoika.postiljooni@hotmail.com>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wideband receiver architectures
References: <rAA5k.186489$Gv.71007@en-nntp-07.dc1.easynews.com>
In-Reply-To: <rAA5k.186489$Gv.71007@en-nntp-07.dc1.easynews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 080616-0, 2008.06.16), Outbound message
X-Antivirus-Status: Clean
Lines: 26
Message-ID: <4856d95d$0$14998$4f793bc4@news.tdc.fi>
Organization: TDC Internet Services
NNTP-Posting-Host: 82-203-199-125.dsl.gohome.fi
X-Trace: 1213651293 news.tdc.fi 14998 82.203.199.125:1090
X-Complaints-To: abuse@tdcnet.fi
Xref: g2news1.google.com rec.radio.amateur.homebrew:207

Joel Koltner kirjoitti:
> Just curious... does anyone know what sort of architecture you find in your
> typical HT or mobile "receives everything from 100kHz - 1.3GHz!" radio to
> generate such a vast range of frequencies while still keeping the prices so
> low (plenty are available for <$200, and I can't expect the LO makes up a
> particularly large percentage of that total price)? I would tend to lean
> towards something PLL-based given the typically channelized nature of
> available frequencies, but a single PLL would still need a VCO with a huge
> tuning range. So... perhaps a pair of mixed PLLs, with one doing the fine
> tuning and another the coarse tuning (having been multiplied up from a low
> frequency)?
>
> I attempted to decipher the schematic included with my Yaesu FTM-10R, but
> everything is so tiny it was rather hopeless!
>
> I don't suppose any of the reviews ever go through and sweep the LOs while
> watching for the worst case spur conditions, do they?
>
> ---Joel
>
>

Solution for LO maybe is DDS.
The practical solution of DDS is is extremely simple and cheap.
Please google word "DDS"

-- postipoika

From -5518106575291314527
X-Google-Thread: fc2a5,44aae470c998d154

X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 16 Jun 2008 16:52:49 -0500
Date: Mon, 16 Jun 2008 14:53:01 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wideband receiver architectures
References: <rAA5k.186489$Gv.71007@en-nntp-07.dc1.easynews.com>
In-Reply-To: <rAA5k.186489$Gv.71007@en-nntp-07.dc1.easynews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <moednchanu4sfcvVnZ2dnUVZ_v_inZ2d@web-ster.com>
Lines: 37
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-WY9QX8ftPLp4oIuQDBIJasC4Bf4Hw2rv10e4UW/3ckFmj/echZARk0rvrz/joLSN6kCtGD4jiPMtcM6!KLdnG5uD+MYtV0i84U4HcoN181dUSe0HhRUiGNgdyrBzATtMj3eRd4anCdcXAiO5emAypaIlq5it!QKi6wjwJpkmZ5Sk=
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:208

Joel Koltner wrote:

> Just curious... does anyone know what sort of architecture you find in your typical HT or mobile "receives everything from 100kHz - 1.3GHz!" radio to generate such a vast range of frequencies while still keeping the prices so low (plenty are available for <$200, and I can't expect the LO makes up a particularly large percentage of that total price)? I would tend to lean towards something PLL-based given the typically channelized nature of available frequencies, but a single PLL would still need a VCO with a huge tuning range. So... perhaps a pair of mixed PLLs, with one doing the fine tuning and another the coarse tuning (having been multiplied up from a low frequency)?
>
> I attempted to decipher the schematic included with my Yaesu FTM-10R, but everything is so tiny it was rather hopeless!
>
> I don't suppose any of the reviews ever go through and sweep the LOs while watching for the worst case spur conditions, do they?
>
> ---Joel
>
>

I suspect that they first upconvert to somewhat higher than the 1.3GHz upper frequency limit, then use a roofing filter with however many itty bitty IFs it takes to get back down to a reasonable bandpass filter.

I also suspect that the receiver receives everything kinda well, not superlatively.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From -4487522912985479739
X-Google-Thread: fc2a5,de74a8251b9c2970
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!roadrunner.com!not-
for-mail
From: andrew cuomo <control@control.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: TimeWarner discontinues usenet news
Date: Mon, 16 Jun 2008 19:05:41 -0400
Message-ID: <ndsd54psb9bmsftfp59q4dljmf0n5hk1b8@4ax.com>
References: <ord054hr1qdqk2bn1728o7trdk6cq85vqa@4ax.com>
<73e8302877856ce455b0aa763b35bb9e@grapevine.islandnet.com>
<g2u4ni01map@enews2.newsguy.com> <jBw5k.158218$ea6.71575@en-
nntp-01.dc1.easynews.com> <3NA5k.642$oY2.212@newsfe21.lga>
X-Newsreader: Forte Agent 3.0/32.763
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 21
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 66.67.8.228
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:209
```

On Mon, 16 Jun 2008 17:18:37 -0400, "Tio Pedro"
<radioconnection@cox.net> wrote:

```
>
>"Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in message
>news:jBw5k.158218$ea6.71575@en-nntp-01.dc1.easynews.com...
>> "Mark Zenier" <mzenier@eskimo.com> wrote in message
>> news:g2u4ni01map@enews2.newsguy.com...
>>> According to an article in yesterday's newspaper, (Seattle Times, sourced
>>> from the Christian Science Monitor and the AP), they're protecting their
>>> customers from child pornography.
```

>>
>> Hahaha... but that logic, they're going to have to quit providing internet connections completely! I have no idea what the numbers are, but I suspect that a lot more child porn traverses HTTP than NTTP any day...
>>
>
>All they have to do is to subscribe to a commercial news account and they will have access to everything they had before, and more.

Kaching$$$

From 5536075581450742739
X-Google-Thread: fc2a5,44aae470c998d154
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out02a.usenetserver.com!news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-in-02.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-nntp-09.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <rAA5k.186489$Gv.71007@en-nntp-07.dc1.easynews.com> <4856d95d$0$14998$4f793bc4@news.tdc.fi>
Subject: Re: Wideband receiver architectures
Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <aoC5k.60569$dq6.23414@en-nntp-09.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Mon, 16 Jun 2008 16:08:51 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:210

"Postipoika" <pikkupoika.postiljooni@hotmail.com> wrote in message news:4856d95d$0$14998$4f793bc4@news.tdc.fi...
> Solution for LO maybe is DDS.

That's a big "maybe" -- even the fastest DDSes aren't much better than 1GSps or thereabouts, giving a realistic tuning range of 0-400MHz... and those parts are quite power hungry and not at all cheap (e.g., Analog Devices' AD9858 is several watts and nearly $50 even in quantities of 1000!). On the other hand, one of the much lower frequency DDSes in conjunction with a mixer would probably work well -- although it just shifts the problem to how to get nice and pure, very wide range fixed frequencies to mix with. (E.g., DDS does 0-200MHz, so now you need just, say, a 200MHz+/-IF, 400MHz+/-IF, 600MHz+/-IF, etc. oscillators to mix with...)

Of course with the very fine-grained frequency resolution of a DDS, multiplying the output up would seem to be an obvious approach, but I'm told this isn't typically used due to the relatively high spur levels of the DDS itself.

---Joel

From -7103992361506687651
X-Google-Thread: fc2a5,de74a8251b9c2970
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!140.99.99.194.MISMATCH!news-in-02.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-nntp-05.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <ord054hr1qdqk2bn1728o7trdk6cq85vqa@4ax.com>
<73e8302877856ce455b0aa763b35bb9e@grapevine.islandnet.com>
<g2u4ni01map@enews2.newsguy.com> <jBw5k.158218$ea6.71575@en-nntp-01.dc1.easynews.com> <3NA5k.642$oY2.212@newsfe21.lga>
Subject: Re: TimeWarner discontinues usenet news
Lines: 14
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <CqC5k.226452$ng7.57187@en-nntp-05.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Mon, 16 Jun 2008 16:11:28 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:211

"Tio Pedro" <radioconnection@cox.net> wrote in message
news:3NA5k.642$oY2.212@newsfe21.lga...
> All they have to do is to subscribe to a commercial news account
> and they will have access to everything they had before, and more.

Sure, I use Forte for all of $2.95 per month (http://www.forteinc.com/apn/index.php), and I've never come *close* to the 10GB/month transfer limit, although of course I'm not downloading warez nor kiddie porn!

I can see people being upset with Time-Warner's decision, though -- effectively it does translate into a rate hike.

From -4414464859116189778
X-Google-Thread: fc2a5,44aae470c998d154
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
u12g2000prd.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wideband receiver architectures
Date: Mon, 16 Jun 2008 17:42:38 -0700 (PDT)
Organization: http://groups.google.com
Lines: 38
Message-ID: <42fa9860-9e6e-4fa5-a8bc-dcc86d0b0901@u12g2000prd.googlegroups.com>
References: <rAA5k.186489$Gv.71007@en-nntp-07.dc1.easynews.com>
NNTP-Posting-Host: 63.73.218.130
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1213663358 750 127.0.0.1 (17 Jun 2008 00:42:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 17 Jun 2008 00:42:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u12g2000prd.googlegroups.com; posting-host=63.73.218.130;
    posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Links (1.00pre14; Linux 2.6.13.2 i686;
80x25),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:212

Joel Koltner wrote:
> Just curious... does anyone know what sort of architecture you find in your
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> I attempted to decipher the schematic included with my Yaesu FTM-10R, but
> everything is so tiny it was rather hopeless!
>
> I don't suppose any of the reviews ever go through and sweep the LOs while
> watching for the worst case spur conditions, do they?

The HT-class wideband receivers typically will have a first IF in the
45 or 70 MHz range, and use a number of different PLL's one for each
different band. Each PLL is literally less than a square cm on the
PCB, and there's a lot of them.

At least one Sony from the mid 90's had a 10.7MHz second IF, and if the frequency you wanted was anywhere near the first IF of 70MHz, then they skipped the first IF and went straight to the second IF.

For FM the 10.7MHz IF is the ending point... for non-WBFM modes there was a third IF of 455kc with some ceramic filters.

Some of the HT's have 5kHz channel spacing on the HF band with no finer tuning available (OK for SWLing but nothing else), but the slightly better ones have finer tuning in the HF range thanks to a the 2nd or 3rd LO being a PLL too.

Image rejection is nearly completely nonexistent.

Tim.

```
From -8257171379854098457
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ChineseT,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 16 Jun 2008 21:03:44 -0500
From: abcd815 <abcd815.29cd0b9@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Mon, 16 Jun 2008 23:19:32 +0100
Message-ID: <abcd815.29cd0b9@radiobanter.com>
Organization: RadioBanter.com
References:
<2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com><7aerg5-09m.ln1@radagast.org>
<f32ff7a4-40f7-4007-
b071-0c0b2507a5c3@2g2000hsn.googlegroups.com><JSb%j.229$Cr.45@fe101.usenetserver.c
om> <4e7e628e-1ff3-4621-
ba4c-9ab027b54024@25g2000hsx.googlegroups.com><g1mbdj$u1e$1@f04n12.cac.psu.edu>
<7fbe5a7d-63b9-40d7-ad0c-
e8f279768201@59g2000hsb.googlegroups.com><g21enn$17ne$1@f04n12.cac.psu.edu>
<e0bdf3d7-33ad-4c3b-bfb0-
b6e7e655f0b1@b1g2000hsg.googlegroups.com><5oednfu5BfU1jdTVnZ2dnUVZ8sijnZ2d@pipex.n
et> <3487cb32-9ceb-40ee-bde5-
f7a3abff8280@l42g2000hsc.googlegroups.com><oeidnS6g_Kz639HVRVnyggA@pipex.net>
<380d3f8d-557b-4799-bb07-a9924dad5f12@z72g2000hsb.googlegroups.com>
<baadman25.2943f34@radiobanter.com>
Lines: 25
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-T0J/
re7wc9NOeAeml8vELP4+TsoLAsfFJelUijHnvYJ+iYtYUE8mKFqVHyaoh83RJ7rfKOLFxsJpbZ8!
Y6kIBazSrdRYtRmfS5wP4TcYzK/p30u4Pv9cPtO8GGXGMSirTWE6uGXxN3nnMJ1qC8AY0C2lPMMw!e2HY
X-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
```

```
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
X-Original-Lines: 1
Xref: g2news1.google.com rec.radio.amateur.homebrew:213


&#26053;&#28216;--
&#20154;&#27665;&#32593;&#35753;&#27431;&#27954;&#26053;&#28216;&#33021;&#22815;&#
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0449;&#30340;&#28040;&#36153;,&#21516;&#26102;&#33021;&#22815;&#28385;&#24847;&#30
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&#25253;&#24681;&#23546;&#24674;&#22797;&#32500;&#20462;&#38656;5500&#19975;
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&#27431;&#27954;&#20061;&#22823;&#33879;&#21517;&#36141;&#29289;&#26449;...&#29233
;&#22025;&#36884;&#32852;&#21512;&#21315;&#40857;&#26053;&#28216;&#25512;&#20986;&
#22659;&#28216;&#20302;&#20215;&#26032;&#27010;&#24565;
&#8226; &#29976;&#32899;&#33258;&#28982;&#20445;&#25252;&#21306;
102&#21482;&#22823;&#29066;&#29483;&#29983;&#27515;&#19981;&#26126;
&#8226;
&#20140;&#20116;&#26143;&#32423;&#23486;&#39302;&#22885;&#36816;&#26399;&#38388;&#
26631;&#38388;&#22343;&#20215;3263&#20803;...&#36259;&#36884;&#26053;&#28216;&#325
93;-
&#26053;&#28216;&#36229;&#24066;&#33521;&#22269;&#20004;&#25143;&#20154;&#38393;&#
32416;&#32439;&#24594;&#36896;"&#39532;&#23572;&#20195;&#22827;&#26053;&#28216;"
&#21453;&#25104;&#26053;&#28216;&#28909;&#28857; &#8226;
&#20139;&#21463;&#26368;&#39030;&#32423;&#30340;&#22882;&#21326;
&#26364;&#35895;&#39640;&#23572;&#22827;&#20043;&#26053;
(&#32452;&#22270;)...&#21271;&#20140;&#26032;&#21326;&#22269;&#38469;&#26053;&#282
16;&#26377;&#38480;&#20844;&#21496;
&yen;17000
&#32654;&#22269;&#19996;&#35199;&#28023;&#23736;&#21313;&#22235;&#26085;&#25506;&#
35775;&#21517;&#26657;&#22269;&#38469;
&#20139;&#28216;&#20551;&#26399;-
&#21271;&#20140;&#38738;&#24180;&#26053;&#34892;&#31038;&#23448;&#22253;&#33829;
&yen;30000 "...
```

```
--
abcd815


From 4482252936802839792
X-Google-Thread: fc2a5,1f150593ae61c212
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!news-
out.octanews.net!indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: teflon wire
Date: Tue, 17 Jun 2008 00:28:41 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.06.17.07.28.40.974751@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <atKdnUYS1-t57snVnZ2dnUVZ_r7inZ2d@comcast.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 14
Organization: Octanews
NNTP-Posting-Date: 17 Jun 2008 02:28:50 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:214

On Sat, 14 Jun 2008 18:44:04 -0700, Gary wrote:

>
>
> Looking for #20 teflon wire and of course need only a short length.
> Anyone out there have a favorite wire distributor who takes pity on us
> homebrew types and sells by the foot??  Thanks all.
>
> gary

www.apexjr.com

Cheers!




From 9027925281869351071
X-Google-Thread: fc2a5,64d24638f4f0f4ed,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 17 Jun 2008 06:27:37 -0500
From: Tom2000 <abuse@giganews.net>
Newsgroups: rec.radio.amateur.homebrew
```

Subject: Codewheel Generator for Homebrew Optical Encoders
Date: Tue, 17 Jun 2008 04:27:25 -0700
Message-ID: <sj7f54dsblkmal38en143fulo1940m5frq@4ax.com>
X-Newsreader: Forte Agent 2.0/32.652
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 080616-0, 06/16/2008), Outbound message
X-Antivirus-Status: Clean
Lines: 38
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.231.222.113
X-Trace: sv3-fpeFfS/
yedFcTm3PD+gFs2gv3QGvCPU3JzCz9jOraOUG9T17r5DzSAx62y3bMSsLHxb4IoE+JrrPkIu!
kADilnXLUuLdtvZK0rlW/GSODEXUI+vx9l4ne3yGF04HRv9NfyFm8Ulrh6H6Kf1QJwqpRP58ViQz!
6KtoBWSdGVNVIJgc4Kc6goXJOSzE/Q==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:215

Howdy, Folks,

I recently released a freeware Win98/2000/XP/Vista program that generates codewheel images and prints them to any home inkjet or laser printer.

With a good codewheel in hand, you can build your own optical encoder.

I tried to generalize the program with six "canned" wheel types, plus a user-defined wheel type that lets you design a codewheel for just about any application you can imagine.

The program can generate wheels from one to eight tracks, at user-specified size and resolution.

My favorite feature is its automatic 1:1, no hassle printing. Want a 2" diameter wheel? Set it for 2" outside diameter, and the wheel image will automatically print at 2" diameter. No muss, no fuss.

You can spec the wheel image's resolution to anything practical. If you have access to better printers than you might find at home, or want to produce your wheels via photolithography, you can export the image as a .BMP file, as either a positive or negative image.

And did I mention that it's free? It's so free that I don't even have any advertising on my web page.

Speaking of my web page, I think I should probably tell you where to find it:

   http://www.mindspring.com/~tom2000/Delphi/Codewheel.html

```
Very 73,

   Tom  AB9B




From -6851077093164507462
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!25g2000hsx.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Tue, 27 May 2008 07:02:19 -0700 (PDT)
Organization: http://groups.google.com
Lines: 18
Message-ID: <e01791eb-b170-4c00-8284-ed7024d7c933@25g2000hsx.googlegroups.com>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
     <7aerg5-09m.ln1@radagast.org> <SbadnbMpgbka5abVnZ2dnUVZ_sjinZ2d@bright.net>
     <0e8dcb32-263e-4a35-80a8-24af202ce311@c65g2000hsa.googlegroups.com>
     <483C0D04.8030709@nosspam.activ8.net.au>
NNTP-Posting-Host: 170.121.15.46
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1211896939 26146 127.0.0.1 (27 May 2008 14:02:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 May 2008 14:02:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:64

On May 27, 9:30=A0am, Alan Peake <adpe...@nosspam.activ8.net.au> wrote:
> Tim Shoppa wrote:
>
> > Almost all modern enameled magnet wires have Beldsol-type coatings
> > that are supposed to burn/vaporize at soldering temperatures, yes.
>
> These seem to have a dark red or maroon colouring as opposed to older
> enamels which were a golden colour. These are certainly not heat-strippabl=
e.
> I don't recall the heat-strippable enamels much before the 70s.

True... the most common color for Beldsol-type stuff seems to be the
```

dark red. But I think some (most?) green is Beldsol-type too.

If it doesn't vaporize in solder, I usually just go at it with sandpaper.

Tim.

From 7976628770110148022
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Tue, 27 May 2008 11:36:30 -0500
Date: Tue, 27 May 2008 09:37:03 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
<7aerg5-09m.ln1@radagast.org> <SbadnbMpgbka5abVnZ2dnUVZ_sjinZ2d@bright.net>
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:65

Scott wrote:
> Dave Platt wrote:
>> In article <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>,
>> W3CQH <hsgorden@comcast.net> wrote:
>>
>>
>>> Does anybody have the name of the substance that was sold years ago
>>> for removing the enamel coating from wires, or maybe the name of
>>> something new?
>>> You would soak the wire in it and it would soften the coating and
>>> then you just wiped the goop off the wire.
>>
>>

>> I think you're referring to GC Electronics Strip-X. Doesn't seem to
>> be on the market these days, as best as I can tell.
>>
>> I found a MSDS which states that it's 70% methylene chloride, 25%
>> cresol (isomers of cresylic acid), around 5% ammonia, plus some wax
>> and thickening agents.
>>
>> One poster in an earlier thread stated that it was designed to work
>> with Formvar insulation, and might not work as well on the newer
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>> There's a paint-and-finish stripper of a similar name (Klean-Strip
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>> methylene chloride, but it has no cresol or ammonia. Its other
>> ingredients include toluene, xylene, and methanol, plus a thickener
>> (it's relatively goopy and would probably have to be wiped off of the
>> wire using a paper towel or Q-tip or something like that).
>>
>> These chemicals all come with fire- and health-hazard warnings... if
>> you use 'em, do so with proper care and precautions!
>>
>
> I just put a glob of solder on the soldering iron tip and dunk the
> enameled wire into it until the enamel melts and the solder tins the end
> of the wire. Been doing that for over 20 years now...seems to work A-OK.
>
> Scott
> N0EDV

Some of the magnet wire I have will do that, some won't, and some needs
to be scraped a bit with a knife before it works -- the heat will kill
the adhesion between wire and enamel, but it won't do in the enamel.

I generally always scrape with a knife, then tin -- but I wouldn't put
anything I build through a vibe test!

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From 1406415721299396467
X-Google-Thread: fc2a5,22c75f654cc38996
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nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.bright.net!
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news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 27 May 2008 17:48:49 -0500
Date: Tue, 27 May 2008 22:48:49 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com> <7aerg5-09m.ln1@radagast.org> <SbadnbMpgbka5abVnZ2dnUVZ_sjinZ2d@bright.net> <wLydnWPz8ciZcabVnZ2dnUVZ_sWdnZ2d@comcast.com>
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:66

W3CQH wrote:
> "Scott" <acepilotREMOVE@bloomer.net> wrote in message
> news:SbadnbMpgbka5abVnZ2dnUVZ_sjinZ2d@bright.net...
>
>>Dave Platt wrote:
>>
>>>In article <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>,
>>>W3CQH <hsgorden@comcast.net> wrote:
>>>
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>>>These chemicals all come with fire- and health-hazard warnings... if
>>>you use 'em, do so with proper care and precautions!
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>>enameled wire into it until the enamel melts and the solder tins the end
>>of the wire. Been doing that for over 20 years now...seems to work A-OK.
>>
>>Scott
>>N0EDV
>
>
> Thanks Scott - I forgot that technique - Yes it does work - sometimes when
> you get some age on your brain, it tends to lose some of the lesser used
> items. - Best 73's de Howard W3CQH
>
>

Glad to help out! I have "halfzheimers"....I've only forgotten HALF of
what I used to know! ;) Good luck with whatever project you are
working on :)

Scott
N0EDV

From -2741397456806241509
X-Google-Thread: fc2a5,22c75f654cc38996
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!2g2000hsn.googlegroups.com!not-for-mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Tue, 27 May 2008 17:04:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 87
Message-ID: <f32ff7a4-40f7-4007-b071-0c0b2507a5c3@2g2000hsn.googlegroups.com>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>

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     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:67
```

From: dplatt@radagast.org (Dave Platt) wrote on Mon, May 26 2008:

>In article <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>,
>W3CQH <hsgorden@comcast.net> wrote:
>
>>Does anybody have the name of the substance that was sold years ago for
>>removing the enamel coating from wires, or maybe the name of something new?
>>You would soak the wire in it and it would soften the coating and then you
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>be on the market these days, as best as I can tell.
>
>I found a MSDS which states that it's 70% methylene chloride, 25%
>cresol (isomers of cresylic acid), around 5% ammonia, plus some wax
>and thickening agents.

General Cement's "Strip-X" hasn't been sold by them for at least a dozen years. I sent them a letter some time ago, got a nice reply to that effect from a female-named staffer "who had not worked for them before that." :-)   Their home office is also my home town. :-)

"Strip-X" worked like a charm. For decades as an over-the-counter product. Nothing over-the-counter now works as well as it did from 1948 onwards to whenever they stopped repackaging it. Note: GC did a lot of repackaging of bulk material and tools as well as some manufacturing. GC went through a series of corporate restructures, buys, and buy-outs, just aren't the same company as when I left Rockford, IL, in 1956.

As a fellow professional, I've tried to find out what other manufacturers use. Most use a mechanical "stripper" that abrades coatings...but quite expensive, too much for the average hobbyist. At least one "makes their own" but is very close-mouthed on what their "own formula" is...:-)

>One poster in an earlier thread stated that it was designed to work with Formvar insulation, and might not work as well on the newer Polythermaleze insulation.

The only problems I've ever had with "Strip-X" was with some surplus Teflon-coated (!) magnet wire obtained decades ago. But, my last bottle of "Strip-X" dried solid about 8 years ago.

>There's a paint-and-finish stripper of a similar name (Klean-Strip Strip-X) available these days. Like the wire-"Strip-X" it contains methylene chloride, but it has no cresol or ammonia. Its other ingredients include toluene, xylene, and methanol, plus a thickener (it's relatively goopy and would probably have to be wiped off of the wire using a paper towel or Q-tip or something like that).

I've tried to find one out of three different brands tested, from Lowes, Home Depot, OSH (Orchard Supply Hardware), and Do-It Centers. They remove oil-based paints with difficulty and aren't even close to "Strip-X" for magnet wire, any coating. Roughly a $60 experiment in trying for a substitute all of which were unsuccessful. Bummer.

>These chemicals all come with fire- and health-hazard warnings... if you use 'em, do so with proper care and precautions!

The do-gooders done did too much with all those warnings and attempts to protect us all from everything. :-(I'd only been using Strip-X since 1947 and known lots and lots of folks who stripped magnet wire using Strip-X. No "fires" caused by the stuff and most of those I knew did not suffer from any "health-hazards" inhaling (very briefly) the stinky odor from Strip-X. It's sort of like anything with an odor should have "Caution: Breathing will eventually result in death!" warnings.

At one time (just about 8 years ago), pure acetone was VERY hard to get in pint/quart containers. It is an excellent solvent for lacquers, brush-cleaning, etc. (not good for wire stripping though). As of about 3 years ago it and a few other aromatic hydrocarbons started appearing in do-it-yourself stores. Maybe there's some relaxation in all those dire predictions, warnings, etc., etc., etc.

My late father-in-law was a polymer chemist. He died in 1977 so can't help me. I just hope that some chemist could come to the aid of us hobbyists using coated magnet wire and provide us with a GOOD product like Strip-X was. Meanwhile, it's back to being VERY careful with a sharp X-Acto knofe and scraping coatings. With #34 AWG that requires Zen-like calmness...

73, Len AF6AY

From 3173612652953877941
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
From: Bert Hyman <bert@iphouse.com>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:68

In news:f32ff7a4-40f7-4007-b071-0c0b2507a5c3@2g2000hsn.googlegroups.com
AF6AY <LenAnderson@ieee.org> wrote:

> General Cement's "Strip-X" hasn't been sold by them for at least
> a dozen years.

Here's a link to the "Material Safety Data Sheet" for Strip-X which
shows its components with % by weight of each.

http://www2.itap.purdue.edu/msds/docs/1451.pdf

[67% methylene chloride, 17% phenol, 4% ammonia, 20% inert thickeners]

--
Bert Hyman   St. Paul, MN bert@iphouse.com

From 2267098482493697968
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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NNTP-Posting-Date: Wed, 28 May 2008 01:51:14 -0500
Message-ID: <KIqXXhFe8PPIFAiE@ifwtech.co.uk>

Date: Wed, 28 May 2008 07:43:42 +0100
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com rec.radio.amateur.homebrew:69

Scott Wrote:

>>>>There's a paint-and-finish stripper of a similar name (Klean-Strip
>>>>Strip-X) available these days. Like the wire-"Strip-X" it contains
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>>of the lesser used items. - Best 73's de Howard W3CQH
>
>Glad to help out! I have "halfzheimers"....I've only forgotten HALF of
>what I used to know! ;)

It's probably due to the paint stripper we've been inhaling for all those years. Out of all the possible ingredients, I'm blaming it on the thickener.

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From -7769399238091015658
X-Google-Thread: fc2a5,22c75f654cc38996
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NNTP-Posting-Date: Wed, 28 May 2008 06:11:33 -0500
Date: Wed, 28 May 2008 12:13:02 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
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X-Complaints-To: abuse@dsl.pipex.net
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com rec.radio.amateur.homebrew:70

Dave Platt wrote:
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> wire using a paper towel or Q-tip or something like that).
>
> These chemicals all come with fire- and health-hazard warnings... if
> you use 'em, do so with proper care and precautions!

=======================================
The (potential health)problem chemicals are the C6H6-ring hydrocarbons
: toluene and xylene .

In addition to breathing the vapours , skin contact with the liquid is
outright dangerous
Most products containing these benzene/benzol derivatives are no longer
available to the public at large ,since they can cause cancer.
But.......they are very effective solvents.

Frank GM0CSZ / KN6WH

From 5568974708107508952
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!uns-out.usenetserver.com!
news.usenetserver.com!pc02.usenetserver.com!fe101.usenetserver.com.POSTED!
fd24bd7a!not-for-mail
From: gwatts <gwatts@frontiernet.net>
User-Agent: Mozilla Thunderbird 1.0.6 (Windows/20050716)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
<7aerg5-09m.ln1@radagast.org> <f32ff7a4-40f7-4007-
b071-0c0b2507a5c3@2g2000hsn.googlegroups.com>
In-Reply-To: <f32ff7a4-40f7-4007-b071-0c0b2507a5c3@2g2000hsn.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 15
Message-ID: <JSb%j.229$Cr.45@fe101.usenetserver.com>
X-Complaints-To: abuse-news@frontiernet.net
NNTP-Posting-Date: Wed, 28 May 2008 08:03:53 EDT
Organization: Frontier
Date: Wed, 28 May 2008 08:03:52 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:71

AF6AY wrote:
>...
> The do-gooders done did too much with all those warnings and
> attempts to protect us all from everything.

Naaa, it's the people who think they should be rewarded for stupidity
and basic capitalism that took all that stuff off the market. Some
idiot did something stupid with the product and decided to sue. The
company looked at a long legal fight or settlement and settled. They
looked at a couple settlements and decided it would be more profitable
to eliminate the product and concentrate on other things as they're not
in the business to keep consumers satisfied, just get their money and
keep as much of it as possible.

- W8LNA

```
From -5374520059314952395
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
25g2000hsx.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Wed, 28 May 2008 10:16:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 53
Message-ID: <4e7e628e-1ff3-4621-ba4c-9ab027b54024@25g2000hsx.googlegroups.com>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
     <7aerg5-09m.ln1@radagast.org> <f32ff7a4-40f7-4007-
b071-0c0b2507a5c3@2g2000hsn.googlegroups.com>
     <JSb%j.229$Cr.45@fe101.usenetserver.com>
NNTP-Posting-Host: 207.101.100.154
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1211995009 14389 127.0.0.1 (28 May 2008 17:16:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 28 May 2008 17:16:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 25g2000hsx.googlegroups.com; posting-host=207.101.100.154;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:72
```

On May 28, 8:03=A0am, gwatts <gwa...@frontiernet.net> wrote:

> AF6AY wrote:
> >...
> > The do-gooders done did too much with all those warnings and
> > attempts to protect us all from everything.

If a product is dangerous, why shouldn't it have warnings?
Particularly when
there are known carcinogens and other health hazards involved?

It's not being a "do-gooder" or "doing too much" to discover hazards
and
eliminate or contain them.

Sure, not everyone who uses Strip-X will get cancer. But some of the
components of it are known carcinogens, and a proven hazard. More
important,
we can't know ahead of time who the susceptible folks are.
>
> Naaa, it's the people who think they should be rewarded for stupidity
> and basic capitalism that took all that stuff off the market. =A0Some
> idiot did something stupid with the product and decided to sue. =A0The
> company looked at a long legal fight or settlement and settled.

Maybe. But I doubt it.

More likely, they looked at the *possibility* of such a lawsuit, the
scientific
evidence of the hazards of the ingredients, the limited profit and
declining
sales, and just stopped making the product.

Once a chemical is shown to be dangerous, the manufacturers can't
claim
ignorance anymore.

> They...decided it would be more profitable
> to eliminate the product and concentrate on other things as they're not
> in the business to keep consumers satisfied, just get their money and
> keep as much of it as possible.

Profitability is what "capitalism" and "business" are all about.
Without
profitability, a capitalist company just disappears.

Since the formula for Strip-X appears to be in the public domain,
anybody
can make it and sell it. Would *you* be willing to set up shop to make
it
and sell it, with all the risks that entails, and the very limited
market for it?

73 de Jim, N2EY

From 2074900558478281930
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
k37g2000hsf.googlegroups.com!not-for-mail
From: Mike Silva <snarflemike@yahoo.com>

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Wed, 28 May 2008 14:18:47 -0700 (PDT)
Organization: http://groups.google.com
Lines: 15
Message-ID: <6e8316be-7f3c-4eea-86d3-073974647334@k37g2000hsf.googlegroups.com>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
NNTP-Posting-Host: 71.51.178.124
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1212009527 10917 127.0.0.1 (28 May 2008 21:18:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 28 May 2008 21:18:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k37g2000hsf.googlegroups.com; posting-host=71.51.178.124;
     posting-account=QgO_5wkAAACZKtAvkb3f1VNDm9C58qLr
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
     .NET CLR 2.0.50727; .NET CLR 3.0.04506; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:73

On May 26, 12:43=A0pm, "W3CQH" <hsgor...@comcast.net> wrote:
> Does anybody have the name of the substance that was sold years ago for
> removing the enamel coating from wires, or maybe the name of something new=
?
> You would soak the wire in it and it would soften the coating and then you=

> just wiped the goop off the wire.
>
> 73's

I've always burned off the insulation with a lighter, removed the
remaining ash with a couple swipes of very fine sandpaper, and
tinned.  Never had a problem yet.

Mike



From -4061918013467753080
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 28 May 2008 19:07:53 -0500
Date: Thu, 29 May 2008 01:09:17 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
```

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Subject: Re: REMOVING ENAMEL COATING
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
     <7aerg5-09m.ln1@radagast.org> <f32ff7a4-40f7-4007-
b071-0c0b2507a5c3@2g2000hsn.googlegroups.com>
<JSb%j.229$Cr.45@fe101.usenetserver.com> <4e7e628e-1ff3-4621-
ba4c-9ab027b54024@25g2000hsx.googlegroups.com>
In-Reply-To: <4e7e628e-1ff3-4621-ba4c-9ab027b54024@25g2000hsx.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <OYCdnQitwK9EbqDVnZ2dneKdnZydnZ2d@pipex.net>
Lines: 28
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 85.210.65.25
X-Trace: sv3-
BoEqGqKx2sJCJXFgRgWpHb1CkwfYvOPVBJoOwNzpjqaPpnXagsCjwSWgoKxvSIX0pP6azkzJ62UVfsX!x/
0YPXITALAeDMxX0eOH91sMhwpp2H5Tqa0P6ZIOmVusMqHTUcV2llcdLU5PF4ad3/ju07ijIRZY!
XrZ7uhEVGfJOf0ywy+qSquTB
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com rec.radio.amateur.homebrew:74

  > If a product is dangerous, why shouldn't it have warnings?
> Sure, not everyone who uses Strip-X will get cancer. But some of the
> components of it are known carcinogens, and a proven hazard. More
> important,
> we can't know ahead of time who the susceptible folks are.
>> Naaa, it's the people who think they should be rewarded for stupidity
>> and basic capitalism that took all that stuff off the market.  Some
>> idiot did something stupid with the product and decided to sue.  The
>> company looked at a long legal fight or settlement and settled.
>
> Maybe. But I doubt it.
>
> More likely, they looked at the *possibility* of such a lawsuit, the
> scientific
> evidence of the hazards of the ingredients, the limited profit and
> declining
> sales, and just stopped making the product.
>
> Once a chemical is shown to be dangerous, the manufacturers can't
> claim ignorance anymore.
===================================
And (quite rightly)the FDA , EPA and other relevant agencies at Federal
and State level will be taking action .

In Europe action against dangerous substances is nowadays increasingly
taken through legislation by the European Parliament. I welcome that

Frank   GM0CSZ / KN6WH
```

From 2487886008124503766
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!news1.google.com!news.glorb.com!
nlpi057.nbdc.sbc.com!prodigy.net!nlpi062.nbdc.sbc.com!prodigy.com!
flpi107.ffdc.sbc.com!flpi148.ffdc.sbc.com.POSTED!31d6067f!not-for-mail
From: Jim Adney <jadney@vwtype3.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Message-ID: <kg5s34lra64p0hlgjl6h3mdhgh33k5eip9@4ax.com>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
<6e8316be-7f3c-4eea-86d3-073974647334@k37g2000hsf.googlegroups.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 29
NNTP-Posting-Host: 70.226.175.224
X-Complaints-To: abuse@prodigy.net
X-Trace: flpi148.ffdc.sbc.com 1212029048 ST000 70.226.175.224 (Wed, 28 May 2008
22:44:08 EDT)
NNTP-Posting-Date: Wed, 28 May 2008 22:44:08 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
[[PAPDCAOPTARPPPOBJX_TPCUC\NQOPDLXUNNHLHEQR@ETUCCNSKQFCY@TXDX_WHSVB]ZEJLSNY\^J[CUV
SA_QLFC^RQHUPH[P[NRWCCMLSNPOD_ESALHUK@TDFUZHBLJ\XGKL^NXA\EVHSP[D_C^B_^JCX^W]CHBAX]
POG@SSAZQ\LE[DCNMUPG_VSC@VJM
Date: Wed, 28 May 2008 21:44:46 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:75

On Wed, 28 May 2008 14:18:47 -0700 (PDT) Mike Silva
<snarflemike@yahoo.com> wrote:

>On May 26, 12:43�pm, "W3CQH" <hsgor...@comcast.net> wrote:
>> Does anybody have the name of the substance that was sold years ago for
>> removing the enamel coating from wires, or maybe the name of something new?
>> You would soak the wire in it and it would soften the coating and then you
>> just wiped the goop off the wire.

>I've always burned off the insulation with a lighter, removed the
>remaining ash with a couple swipes of very fine sandpaper, and
>tinned. Never had a problem yet.

That's what I've always done, too, but the last time I suggested it,
all I heard were lots of complaints about how much easier it was to
spend a lot of time breathing odd fumes.

Yes, there certainly was a commercial product once sold for this
purpose, but I suspect the only reason it was out there was because
they knew they couldn't make much money selling "Wire Stripper Kits"

that consisted of a book of matches.

;-)

```
-
-----------------------------------------------
    Jim Adney            jadney@vwtype3.org
           Madison, WI 53711 USA
-----------------------------------------------
```

```
From 7894294851103600086
X-Google-Thread: fc2a5,ab639a54b09375e,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 28 May 2008 23:47:38 -0500
Date: Wed, 28 May 2008 21:47:37 -0700
From: Gary <gbelcas@comcast.net>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: psk-20
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Content-Transfer-Encoding: 7bit
Message-ID: <duOdnRQqs-j3qKPVnZ2dnUVZ_j2dnZ2d@comcast.com>
Lines: 6
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NNTP-Posting-Host: 67.170.123.87
X-Trace: sv3-
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0y8z1rjc/wSwtanecZQU04oiQ==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com rec.radio.amateur.homebrew:76
```

would like to talk w/ anyone who has successfully bumped up the power
output on any of the small wonder psk-transceivers

gary

```
From 8453815431911165997
X-Google-Thread: fc2a5,22c75f654cc38996
```

X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!news.glorb.com!news.aset.psu.edu!not-for-mail
From: Michael Coslo <mjc5@psu.edu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Thu, 29 May 2008 08:44:31 -0400
Organization: Penn State University, Center for Academic Computing
Lines: 12
Message-ID: <g1m8ff$uti$1@f04n12.cac.psu.edu>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com> <7aerg5-09m.ln1@radagast.org> <SbadnbMpgbka5abVnZ2dnUVZ_sjinZ2d@bright.net>
NNTP-Posting-Host: nat3.arl.psu.edu
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
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X-Complaints-To: usenet@f04n12.cac.psu.edu
NNTP-Posting-Date: Thu, 29 May 2008 12:44:31 +0000 (UTC)
User-Agent: Thunderbird 1.5 (Macintosh/20051201)
In-Reply-To: <SbadnbMpgbka5abVnZ2dnUVZ_sjinZ2d@bright.net>
Xref: g2news1.google.com rec.radio.amateur.homebrew:77

Scott wrote:

>
> I just put a glob of solder on the soldering iron tip and dunk the
> enameled wire into it until the enamel melts and the solder tins the end
> of the wire. Been doing that for over 20 years now....

Really Scott, if it hasn't tinned after 20 years, it probably isn't
going to... hehe, sorry, couldn't help myself! ;^)

- 73 de Mike N3LI -

From 418878070504132849
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.aset.psu.edu!not-for-mail
From: Michael Coslo <mjc5@psu.edu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Thu, 29 May 2008 09:02:41 -0400
Organization: Penn State University, Center for Academic Computing
Lines: 109
Message-ID: <g1m9hh$10dq$1@f04n12.cac.psu.edu>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>

    <7aerg5-09m.ln1@radagast.org> <f32ff7a4-40f7-4007-b071-0c0b2507a5c3@2g2000hsn.googlegroups.com>
NNTP-Posting-Host: nat3.arl.psu.edu
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: f04n12.cac.psu.edu 1212066161 33210 128.118.40.78 (29 May 2008 13:02:41 GMT)
X-Complaints-To: usenet@f04n12.cac.psu.edu
NNTP-Posting-Date: Thu, 29 May 2008 13:02:41 +0000 (UTC)
User-Agent: Thunderbird 1.5 (Macintosh/20051201)
In-Reply-To: <f32ff7a4-40f7-4007-b071-0c0b2507a5c3@2g2000hsn.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:78

AF6AY wrote:
> From: dplatt@radagast.org (Dave Platt) wrote on Mon, May 26 2008:
>
>> In article <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>,
>> W3CQH <hsgorden@comcast.net> wrote:
>>
>>> Does anybody have the name of the substance that was sold years ago for
>>> removing the enamel coating from wires, or maybe the name of something new?
>>> You would soak the wire in it and it would soften the coating and then you
>>> just wiped the goop off the wire.
>> I think you're referring to GC Electronics Strip-X. Doesn't seem to
>> be on the market these days, as best as I can tell.
>>
>> I found a MSDS which states that it's 70% methylene chloride, 25%
>> cresol (isomers of cresylic acid), around 5% ammonia, plus some wax
>> and thickening agents.
>
> General Cement's "Strip-X" hasn't been sold by them for at least
> a dozen years. I sent them a letter some time ago, got a nice
> reply to that effect from a female-named staffer "who had not
> worked for them before that." :-)   Their home office is also my
> home town. :-)
>
> "Strip-X" worked like a charm. For decades as an over-the-
> counter product. Nothing over-the-counter now works as well as
> it did from 1948 onwards to whenever they stopped repackaging it.
> Note: GC did a lot of repackaging of bulk material and tools as
> well as some manufacturing. GC went through a series of
> corporate restructures, buys, and buy-outs, just aren't the same
> company as when I left Rockford, IL, in 1956.
>
> As a fellow professional, I've tried to find out what other
> manufacturers use. Most use a mechanical "stripper" that
> abrades coatings...but quite expensive, too much for the average
> hobbyist. At least one "makes their own" but is very close-
> mouthed on what their "own formula" is...:-)
>
>> One poster in an earlier thread stated that it was designed to work
>> with Formvar insulation, and might not work as well on the newer

>> Polythermaleze insulation.
>
> The only problems I've ever had with "Strip-X" was with some
> surplus Teflon-coated (!) magnet wire obtained decades ago. But,
> my last bottle of "Strip-X" dried solid about 8 years ago.
>
>> There's a paint-and-finish stripper of a similar name (Klean-Strip
>> Strip-X) available these days. Like the wire-"Strip-X" it contains
>> methylene chloride, but it has no cresol or ammonia. Its other
>> ingredients include toluene, xylene, and methanol, plus a thickener
>> (it's relatively goopy and would probably have to be wiped off of the
>> wire using a paper towel or Q-tip or something like that).
>
> I've tried to find one out of three different brands tested,
> from Lowes, Home Depot, OSH (Orchard Supply Hardware), and
> Do-It Centers. They remove oil-based paints with difficulty
> and aren't even close to "Strip-X" for magnet wire, any
> coating. Roughly a $60 experiment in trying for a substitute
> all of which were unsuccessful. Bummer.
>
>> These chemicals all come with fire- and health-hazard warnings... if
>> you use 'em, do so with proper care and precautions!
>
> The do-gooders done did too much with all those warnings and
> attempts to protect us all from everything. :-(I'd only
> been using Strip-X since 1947 and known lots and lots of folks
> who stripped magnet wire using Strip-X. No "fires" caused by
> the stuff and most of those I knew did not suffer from any
> "health-hazards" inhaling (very briefly) the stinky odor from
> Strip-X. It's sort of like anything with an odor should have
> "Caution: Breathing will eventually result in death!" warnings.

I wonder if items such as Strip-X became obsolete due to changes in
insulation composition, i.e. not working on new types of insulation. But
I do agree about the folk who would protect us from ourselves. Strip-X
was pretty innocuous stuff.

Did you by any chance try some old style enameled wire in your
experiment above?

> At one time (just about 8 years ago), pure acetone was VERY
> hard to get in pint/quart containers. It is an excellent
> solvent for lacquers, brush-cleaning, etc. (not good for wire
> stripping though). As of about 3 years ago it and a few other
> aromatic hydrocarbons started appearing in do-it-yourself
> stores. Maybe there's some relaxation in all those dire
> predictions, warnings, etc., etc., etc.

The acetone issue is a strange one. Acetone is one of the safer
solvents out there, heck our body even produces some acetone. Aside from
the obvious precautions for flammable materials, the biggest problem
with it is for people who wear contact lenses of the plastic variety.

Splash some in your eye, and if it gets to the edge of the contact,
capillary action will suck it under the lens, and weld the contact to
your eye. Removal effectively blinds the person. Otherwise it's pretty
safe stuff. I just don't wear contacts - even under safety goggles -
when I use it.

> My late father-in-law was a polymer chemist. He died in 1977
> so can't help me. I just hope that some chemist could come to
> the aid of us hobbyists using coated magnet wire and provide
> us with a GOOD product like Strip-X was. Meanwhile, it's back
> to being VERY careful with a sharp X-Acto knofe and scraping
> coatings. With #34 AWG that requires Zen-like calmness...

That is an understatement1 8^) I have to make sure I am in a good mood,
and no coffee for me that day before I attempt that sort of thing.

- 73 de Mike N3LI -

From -7534596071616458714
X-Google-Thread: fc2a5,22c75f654cc38996
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!news.aset.psu.edu!not-for-mail
From: Michael Coslo <mjc5@psu.edu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Thu, 29 May 2008 09:34:43 -0400
Organization: Penn State University, Center for Academic Computing
Lines: 81
Message-ID: <g1mbdj$u1e$1@f04n12.cac.psu.edu>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
<7aerg5-09m.ln1@radagast.org> <f32ff7a4-40f7-4007-b071-0c0b2507a5c3@2g2000hsn.googlegroups.com>
<JSb%j.229$Cr.45@fe101.usenetserver.com> <4e7e628e-1ff3-4621-ba4c-9ab027b54024@25g2000hsx.googlegroups.com>
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Content-Transfer-Encoding: 7bit
X-Trace: f04n12.cac.psu.edu 1212068083 30766 128.118.40.78 (29 May 2008 13:34:43 GMT)
X-Complaints-To: usenet@f04n12.cac.psu.edu
NNTP-Posting-Date: Thu, 29 May 2008 13:34:43 +0000 (UTC)
User-Agent: Thunderbird 1.5 (Macintosh/20051201)
In-Reply-To: <4e7e628e-1ff3-4621-ba4c-9ab027b54024@25g2000hsx.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:79

N2EY@aol.com wrote:
> On May 28, 8:03 am, gwatts <gwa...@frontiernet.net> wrote:
>> AF6AY wrote:
>>> ...

>>> The do-gooders done did too much with all those warnings and
>>> attempts to protect us all from everything.
>
> If a product is dangerous, why shouldn't it have warnings?
> Particularly when there are known carcinogens and other health hazards involved?
>
> It's not being a "do-gooder" or "doing too much" to discover hazards
> and eliminate or contain them.

I think it a matter of magnitude.

Some items such as Benzene are pretty dangerous and have an established
track record of making people sick. Those should go whenever possible.

OTOH, the little bottle of Strip-X with it's foul stench is probably not
going to cause anyone harm outside of self inflicted (i.e. suicide attempts)

Of course, I'm not so sure if Strip-X was discontinued because of health
concerns or that it just didn't work any more on new generations of
enameled wire.

> Sure, not everyone who uses Strip-X will get cancer. But some of the
> components of it are known carcinogens, and a proven hazard. More
> important,
> we can't know ahead of time who the susceptible folks are.
>> Naaa, it's the people who think they should be rewarded for stupidity
>> and basic capitalism that took all that stuff off the market. Some
>> idiot did something stupid with the product and decided to sue. The
>> company looked at a long legal fight or settlement and settled.
>
> Maybe. But I doubt it.
>
> More likely, they looked at the *possibility* of such a lawsuit, the
> scientific evidence of the hazards of the ingredients, the limited profit and
> declining sales, and just stopped making the product.
>
> Once a chemical is shown to be dangerous, the manufacturers can't
> claim ignorance anymore.
>
>> They...decided it would be more profitable
>> to eliminate the product and concentrate on other things as they're not
>> in the business to keep consumers satisfied, just get their money and
>> keep as much of it as possible.
>
> Profitability is what "capitalism" and "business" are all about.
> Without profitability, a capitalist company just disappears.
>
> Since the formula for Strip-X appears to be in the public domain,
> anybody can make it and sell it. Would *you* be willing to set up shop to make
> it and sell it, with all the risks that entails, and the very limited
> market for it?

There you touch on the real issue with items like Strip-X. The manufacturing side. While I might have my little bottle that I get out a time or two during the day, the people making the stuff have exposure issues well beyond that.

As an aside:

The butter flavor on your popcorn (diacetyl) has a nasty side effect for the people who make it (and apparently at least one microwave popcorn addict) when it vaporizes, it can pretty seriously impair lung function. It is a natural substance, but the way in which it is used is the problem

http://en.wikipedia.org/wiki/Diacetyl

http://www.butterflavoringlunginjury.com/index.htm

http://defendingscience.org/Diacetyl-Background.cfm

But I digress. My main point is that while we might not get much exposure, those who produce it just might be getting serious contact with nasty chemicals.

- 73 de Mike N3LI -

```
From 7671771043046205884
X-Google-Thread: 10c2ee,a97429113ebf655,start
X-Google-Thread: fc2a5,a97429113ebf655,start
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nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!
trnddc06.POSTED!3b5fc0bf!not-for-mail
From: "Paul P" <REMOVE paul @ REMOVE ppinyot . REMOVEcom>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
References: <%dC%j.34190$fk.17735@trnddc06>
In-Reply-To: <%dC%j.34190$fk.17735@trnddc06>
Subject: Breting 14 tube location please.
Lines: 10
Organization: www.ppinyot.com
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6000.16480
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6000.16545
Message-ID: <7gC%j.34191$fk.21961@trnddc06>
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Date: Thu, 29 May 2008 18:05:55 GMT
NNTP-Posting-Host: 96.236.156.50
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc06 1212084355 96.236.156.50 (Thu, 29 May 2008 14:05:55 EDT)
NNTP-Posting-Date: Thu, 29 May 2008 14:05:55 EDT
Xref: g2news1.google.com rec.antiques.radio+phono:1130
rec.radio.amateur.homebrew:80

Does some one have a diagram of the tube locations for a Breting 14? I would appreciate saving the time of ferreting out the schematic against the sockets.

Thanks,
Paul P.

paul att ppinyot dot com
http://www.ppinyot.com/breting_14.htm

From -2961639143855689914
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!
newsfeed.news.ucla.edu!ucdavis!not-for-mail
From: Skipp <skipp025@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Modify Astron Power Supply
Date: Thu, 29 May 2008 18:44:48 +0000 (UTC)
Organization: University of California, Davis
Lines: 56
Sender: Skipp May <skipp@vidi.ucdavis.edu>
Message-ID: <g1mtj0$ko8$1@skeeter.ucdavis.edu>
References: <i8vTj.791$b%1.295@trndny04>
NNTP-Posting-Host: vidi.ucdavis.edu
X-Trace: skeeter.ucdavis.edu 1212086688 21256 128.120.47.44 (29 May 2008 18:44:48 GMT)
X-Complaints-To: usenet@ucdavis.edu
NNTP-Posting-Date: Thu, 29 May 2008 18:44:48 +0000 (UTC)
User-Agent: tin/1.4.7-20030322 ("Suggestions") (UNIX) (SunOS/5.8 (sun4u))
Xref: g2news1.google.com rec.radio.amateur.homebrew:81

Hello everyone,

Regarding Astron Power Supplies, repair, retrofit, information and modifications of the supply hardware and replacement Regulator Boards.

There are/were a number of different Astron Power Supply Regulator Board versions made and configured. What is placed on the specific board is related to it's capacity and type of operation. Depending on the year of production, the size and the series the boards can and do change a bit. Here's the url for the Repeater Builder web page,which has a lot of good information:

http://www.repeater-builder.com/astron/astron-index.html

In some of the online yahoo groups I've mentioned some of the short falls of the original Astron Circuit design and how I dealt with them. Since that time I started selling replacment regulator boards with updates and related information.

I offer a complete updated Astron Regulator board package, which is the populated board and instruction sheet. The package also contains my notes, information and various circuit diagrams. The price is $45 plus the cost or US Priority Mail (about $4.35)

When your original Astron Board becomes problematic... my drop in replacement is an updated clone of the original board with modern improvements. Indeed Astron has included some of the mentioned improvements onto some of their current regulator boards (but not all). I've also addressed the fairly problematic crow-bar circuit layout and part values to make the retrofit regulator board more stable. I've never had one fail...

The variable supply is the same type board with part modifications to allow adjustment of the output voltage within a practical range. The ability to convert your specific supply to variable control is probably more dependent on the date of mfgr of your regulator and the version of your board. I have a list of each original Astron Regulator Board part value based on size and the values on my replacement boards. If you've charcoaled a part value I can supply the value information.

By Email and telephone I'm happy to help you trouble shoot your supply, regardless of the mfgr. But my time is limited and I might not get back to you right away so please be patient.

cheers,
skipp

skipp025 at yahoo.com
www.radiowrench.com

: Toby <josdek2@aol.com> wrote:
: I have an Astron RS-20A, 20amp 12v fixed DC supply. I've heard that people
: have modified this model to become a variable voltage supply but have not
: found any schematics etc for this mod. Can anyone point me in the right
: direction? Thanks!

```
From 7117450263099542481
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!
```

```
newsfeed.news.ucla.edu!ucdavis!not-for-mail
From: Skipp <skipp025@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Modify Astron Power Supply
Date: Thu, 29 May 2008 18:46:41 +0000 (UTC)
Organization: University of California, Davis
Lines: 12
Sender: Skipp May <skipp@vidi.ucdavis.edu>
Message-ID: <g1mtmh$ko8$2@skeeter.ucdavis.edu>
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
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X-Trace: skeeter.ucdavis.edu 1212086801 21256 128.120.47.44 (29 May 2008 18:46:41
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X-Complaints-To: usenet@ucdavis.edu
NNTP-Posting-Date: Thu, 29 May 2008 18:46:41 +0000 (UTC)
User-Agent: tin/1.4.7-20030322 ("Suggestions") (UNIX) (SunOS/5.8 (sun4u))
Xref: g2news1.google.com rec.radio.amateur.homebrew:82

: Here is the schematic for a 35, it should ve similar to the 20 except for
: an extra pass transistor or two.
: http://www.repeater-builder.com/astron/pix/astron-vs35m.jpg

No, it's different... and also dependent on the age of the supply. The
other size supply diagrams should be used as a guide only.

cheers,
skipp

skipp025@yahoo.com



From 1601865513183666148
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news2.google.com!newsfeed.stanford.edu!
newsfeed.news.ucla.edu!ucdavis!not-for-mail
From: Skipp says hello <skipp025@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Modify Astron Power Supply
Date: Thu, 29 May 2008 18:48:37 +0000 (UTC)
Organization: University of California, Davis
Lines: 17
Sender: Skipp May <skipp@vidi.ucdavis.edu>
Message-ID: <g1mtq5$ko8$3@skeeter.ucdavis.edu>
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
<pan.2008.05.05.06.51.07.884804@localhost.localdomain>
NNTP-Posting-Host: vidi.ucdavis.edu
X-Trace: skeeter.ucdavis.edu 1212086917 21256 128.120.47.44 (29 May 2008 18:48:37
GMT)
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X-Complaints-To: usenet@ucdavis.edu
NNTP-Posting-Date: Thu, 29 May 2008 18:48:37 +0000 (UTC)
User-Agent: tin/1.4.7-20030322 ("Suggestions") (UNIX) (SunOS/5.8 (sun4u))
Xref: g2news1.google.com rec.radio.amateur.homebrew:83

The crowbar circuit operation should never damage the meter movements or related sense resistors.

cheers,
s.

: geek <geek@localhost.localdomain> wrote:

: I modded one of those significantly. Too long ago to remember the exact
: thing I did, but DO put that crowbar SCR anode on the collector of the
: pass transistors. If it trips as is, you kiss the current meter and
: expensive current sense resistor goodbye.

: Cheers,
: __
: Gregg

From -1839864474863941864
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!newsfeed.news.ucla.edu!ucdavis!not-for-mail
From: Skipp <skipp025@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Modify Astron Power Supply
Date: Thu, 29 May 2008 18:58:09 +0000 (UTC)
Organization: University of California, Davis
Lines: 17
Sender: Skipp May <skipp@vidi.ucdavis.edu>
Message-ID: <g1muc1$ko8$4@skeeter.ucdavis.edu>
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
<pan.2008.05.05.06.51.07.884804@localhost.localdomain> <d52cef37-9511-41a1-8d8c-e4a044f3912d@w4g2000prd.googlegroups.com>
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<fast-2D6DAD.13294907052008@netnews.worldnet.att.net>
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User-Agent: tin/1.4.7-20030322 ("Suggestions") (UNIX) (SunOS/5.8 (sun4u))
Xref: g2news1.google.com rec.radio.amateur.homebrew:84

:> And there should be a fuse in there to blow between the

:> filter cap and crowbar.

No, a really bad practice... don't do it.

:> The supply was actually 3rd world designed and made I swear.

Many parts/portions are done in Mexico...

: Better yet, put in a Resettable Circuit Breaker, as you can never find
: the right fuse, and they ALWAYS blow at the worst possible moment.....

No... you're asking for a serious problem and it's just a question of
when and not if.

cheers,
skipp

From 6382424155030673162
X-Google-Thread: fc2a5,77ba27d5105a7115
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Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!
newsfeed.news.ucla.edu!ucdavis!not-for-mail
From: Skipp <skipp025@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Astron power supplies...
Date: Thu, 29 May 2008 19:01:33 +0000 (UTC)
Organization: University of California, Davis
Lines: 33
Sender: Skipp May <skipp@vidi.ucdavis.edu>
Message-ID: <g1muid$ko8$5@skeeter.ucdavis.edu>
References: <i8vTj.791$b%1.295@trndny04>
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e4a044f3912d@w4g2000prd.googlegroups.com>
<pan.2008.05.07.01.21.14.173454@localhost.localdomain>
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GMT)
X-Complaints-To: usenet@ucdavis.edu
NNTP-Posting-Date: Thu, 29 May 2008 19:01:33 +0000 (UTC)
User-Agent: tin/1.4.7-20030322 ("Suggestions") (UNIX) (SunOS/5.8 (sun4u))
Xref: g2news1.google.com rec.radio.amateur.homebrew:85

A number of gremlins cause the crow-bar to mis-fire. Just depends on
your specific regulator board version and part values used. One of the
reasons I came up with my replacment regulator board option.

http://www.repeater-builder.com/astron/astron-index.html

I've not seen a newer generation crow-bar circuit fail causing
equipment damage.. but as always your results might vary.

cheers,
s.

: A <arthures@panix.com> wrote:

: We had a thread recently on Astron power supplies and I thought I'd
: mention that I have an RS-35A (35 amps intermittent) for VHF brick
: amplifiers (main use) and I've had it for some 20 years. Recently, the PS
: has started to "crowbar" off on me (voltage goes to zero) and not even
: with high currents (maybe around 15 amps or so) and have to shut it off,
: wait a few seconds, and turn it back on.

: I also had another different regulated fairly high current DC PS go bad
: long ago, in a similar way.

: I'm wondering how many others of you have seen defective operation,
: sooner or later, or other deterioration in your high current regulated DC
: supplies?

: And, if the overvoltage crowbar craps out, it blows up your rig? I'm
: thinking of going exclusively back to deep cycle marine batteries, again.

From 4662050284226466849
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newsfeed.news.ucla.edu!ucdavis!not-for-mail
From: Skipp <skipp025@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Astron power supplies...
Date: Thu, 29 May 2008 19:18:50 +0000 (UTC)
Organization: University of California, Davis
Lines: 34
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Message-ID: <g1mviq$ko8$6@skeeter.ucdavis.edu>
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
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e4a044f3912d@w4g2000prd.googlegroups.com>
<pan.2008.05.07.01.21.14.173454@localhost.localdomain>
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<Pine.NEB.4.64.0805151732540.20677@panix2.panix.com> <seCdncWUuMX6-
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GMT)
X-Complaints-To: usenet@ucdavis.edu
NNTP-Posting-Date: Thu, 29 May 2008 19:18:50 +0000 (UTC)
User-Agent: tin/1.4.7-20030322 ("Suggestions") (UNIX) (SunOS/5.8 (sun4u))
Xref: g2news1.google.com rec.radio.amateur.homebrew:86

Re: Astron Power Supply Crow-bar Circuit Operation

:> I'm wondering how many others of you have seen defective operation,
:> sooner or later, or other deterioration in your high current regulated
:> DC supplies?

Happens more with the older supplies... part values change with time.

: However operation of a crowbar should blow a fuse fitted 'upstream' of
: the pass transistors.   As already explained earlier in this thread ,the
: crowbar should also be fitted 'upstream the pass transistors (but
: 'downstream' the fuse , while sensing the output voltage .

I don't agree...

: If the Astron voltage regulator would be suspect I would recommend a
: very simple circuit with a 7812 voltage regulator and a PNP transistor
: ,its output 'steering' the pass transistors .
: Ref : Experimental Methods in RF Design , by W7ZOI-KK7B- W7PUA
: page 1.15

Not a good idea... regulation really suffers bad.

: Instead of the 3 legged 7812 you can also use the similar LM317
: enabling output voltage adjustment
: After all this is a homebrew NG

No good... if you're only trying to get in the ball park maybe... if
you plan to use and trust the supply with expensive equipment you should
stick with an LM-723 or similar circuit properly designed using the mfgrs
data sheet information.

cheers,
skipp

From -7723741081251070890
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!
newsfeed.news.ucla.edu!ucdavis!not-for-mail
From: Skipp Isaham <skipp025@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Astron power supplies...
Date: Thu, 29 May 2008 19:20:39 +0000 (UTC)
Organization: University of California, Davis

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Lines: 11
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e4a044f3912d@w4g2000prd.googlegroups.com>
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<you-647FF8.13080416052008@netnews.worldnet.att.net>
NNTP-Posting-Host: vidi.ucdavis.edu
X-Trace: skeeter.ucdavis.edu 1212088839 21256 128.120.47.44 (29 May 2008 19:20:39
GMT)
X-Complaints-To: usenet@ucdavis.edu
NNTP-Posting-Date: Thu, 29 May 2008 19:20:39 +0000 (UTC)
User-Agent: tin/1.4.7-20030322 ("Suggestions") (UNIX) (SunOS/5.8 (sun4u))
Xref: g2news1.google.com rec.radio.amateur.homebrew:87

: and if your really smart, you will dump the fuse, and replace it with
: a Resettable Circuit Breaker, because Murphy's Law states the Crowbar
: will do it's thing, ALWAYS at the worst possible moment, and the
: appropriate replacement fuse will be a 5 miles drive away, at the
: closest. You mileage may vary.....

The auto reset circuit breaker helps to start the fire, which takes out
the site/building. Not a good idea...

cheers,
s.


From -6415536503268496389
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!
newsfeed.news.ucla.edu!ucdavis!not-for-mail
From: Skipp says hello <skipp025@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Modify Astron Power Supply
Date: Thu, 29 May 2008 19:27:35 +0000 (UTC)
Organization: University of California, Davis
Lines: 39
Sender: Skipp May <skipp@vidi.ucdavis.edu>
Message-ID: <g1n037$ko8$8@skeeter.ucdavis.edu>
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
<pan.2008.05.05.06.51.07.884804@localhost.localdomain>
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X-Trace: skeeter.ucdavis.edu 1212089255 21256 128.120.47.44 (29 May 2008 19:27:35
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GMT)
X-Complaints-To: usenet@ucdavis.edu
NNTP-Posting-Date: Thu, 29 May 2008 19:27:35 +0000 (UTC)
User-Agent: tin/1.4.7-20030322 ("Suggestions") (UNIX) (SunOS/5.8 (sun4u))
Xref: g2news1.google.com rec.radio.amateur.homebrew:88

: The diagram looks strange to me, with a direct connection from the
: higher voltage driver supply (e.g. pin 12 of the 723 or collector of
: Q2) to the base of the series pass transistors.

The pass transistor pre-drive transistor is a simple current amplifier.

: With a higher separate driver power supply the driver current should
: flow through the Q2 driver transistor, through the small resistors
: into the base connection of the series pass transistor. Thus in the
: diagram the direct connection from the driver supply to the series
: pass transistor base should be removed.

Some of the available circuit diagrams have mistakes...

:>I modded one of those significantly. Too long ago to remember the exact
:>thing I did, but DO put that crowbar SCR anode on the collector of the
:>pass transistors. If it trips as is, you kiss the current meter and
:>expensive current sense resistor goodbye.

: When using crowbars, there should be a some kind of fuse on the
: feeding side, preferably immediately after the filter capacitor.

No, you want the entire supply to remove itself from operation if
the crow-bar circuit fires.

: If the crowbar is before the series pass transistors, it is a good
: idea to put a large reverse biased diode across the series transistors
: (CR7 in the diagram), which would discharge any large capacitors on
: the regulated side through the crowbar. Without the diode, the
: collector side would be at 0 V after the crowbar tripped, but the
: emitters could still be at +12 V due to any large capacitors on the
: regulated side.

An expensive part... the crow-bar is best left at the tail end of the
supply (where it is now).

cheers,
s.

From 482621202394152422
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!
newsfeed.news.ucla.edu!ucdavis!not-for-mail

From: Skipp <skipp025@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Modify Astron Power Supply
Date: Thu, 29 May 2008 19:31:24 +0000 (UTC)
Organization: University of California, Davis
Lines: 36
Sender: Skipp May <skipp@vidi.ucdavis.edu>
Message-ID: <g1n0ac$ko8$9@skeeter.ucdavis.edu>
References: <i8vTj.791$b%1.295@trndny04>
<51nu141fm7nbn8500lrbl9qlv8t1nk5t3g@4ax.com>
NNTP-Posting-Host: vidi.ucdavis.edu
X-Trace: skeeter.ucdavis.edu 1212089484 21256 128.120.47.44 (29 May 2008 19:31:24 GMT)
X-Complaints-To: usenet@ucdavis.edu
NNTP-Posting-Date: Thu, 29 May 2008 19:31:24 +0000 (UTC)
User-Agent: tin/1.4.7-20030322 ("Suggestions") (UNIX) (SunOS/5.8 (sun4u))
Xref: g2news1.google.com rec.radio.amateur.homebrew:89

Amen Paul,

The Astron 25 amp variable supply is pretty much the parts for the higher rated supply in the same case. The no free lunch rule applies. If you modify your specific supply for varilable control... it will quickly become to hot at lower voltage - higher current values.

cheers,
s.

: Paul Keinanen <keinanen@sci.fi> wrote:

:>I have an Astron RS-20A, 20amp 12v fixed DC supply. I've heard that people
:>have modified this model to become a variable voltage supply but have not
:>found any schematics etc for this mod. Can anyone point me in the right
:>direction? Thanks!

: While the output voltage of practically any regulated linear power
: supply can be varied by changing one or two resistors, one should
: remember that the power dissipation in the series pass transistors
: will increase significantly, if voltages much below the nominal
: voltage is required, thus you may have to increase the number of
: series pass transistors or at least increase the heatsink surface 2-4
: times the original.

: Also you may have to use some foldback current limitation system to
: keep the series pass transistor dissipation at a reasonable level e.g.
: when driving car head lights or other nearly short circuit loads.

: When fully understanding these issues, the commercially available
: devices can be quite interesting building blocks, when creating power
: supplies for your own needs.

: Paul OH3LWR

From 2582434092690281181
X-Google-Thread: 10c2ee,a97429113ebf655
X-Google-Thread: fc2a5,a97429113ebf655
X-Google-Attributes: gid10c2ee,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
feeder.erje.net!newsfeed.utanet.at!news-hub.siol.net!nntpserver.com!
zeus.nntpserver.com!pfilter-v0.1!news.teranews.com!not-for-mail
Date: Thu, 29 May 2008 14:16:02 -0400
From: exray <radioexray@geeeemail.com>
MIME-Version: 1.0
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: Re: Breting 14 tube location please.
References: <%dC%j.34190$fk.17735@trnddc06> <7gC%j.34191$fk.21961@trnddc06>
In-Reply-To: <7gC%j.34191$fk.21961@trnddc06>
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Content-Transfer-Encoding: 7bit
Message-ID: <b8975$483ef2e5$15355@news.teranews.com>
X-Complaints-To: abuse@teranews.com
Organization: www.TeraNews.com
Lines: 10
NNTP-Posting-Date: Thu, 29 May 2008 14:16:05 -0400
Xref: g2news1.google.com rec.antiques.radio+phono:1139
rec.radio.amateur.homebrew:90

Paul P wrote:
> I would appreciate saving the time of ferreting out the schematic against the
> sockets.

Me too.

-Bill

.
** Posted from http://www.teranews.com **

From -5257552444498686956
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 29 May 2008 17:57:47 -0500
From: Dave M <masondg4xx4@cxxomcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Modify Astron Power Supply
Date: Thu, 29 May 2008 18:57:47 -0400
Message-ID: <67bu34t51031nrmdsce5aa3edpd25bhk8s@4ax.com>

References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
<pan.2008.05.05.06.51.07.884804@localhost.localdomain>
<i2d224d9senqutjs95c1om23cit1ce1hae@4ax.com>
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Content-Transfer-Encoding: 7bit
Lines: 79
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X-Trace: sv3-
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7f1WwVKsVt/m3Tf9KRuK5/Z2xIHpImoEmozuAVHnjUjNbYsu0VQ/5qLKyNLMLwBG3a9o
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:91

On Wed, 07 May 2008 08:08:44 +0300, Paul Keinanen <keinanen@sci.fi> wrote:

>On Sun, 04 May 2008 23:51:08 -0700, geek <geek@localhost.localdomain>
>wrote:
>
>>On Mon, 05 May 2008 02:04:09 -0500, Ralph Mowery wrote:
>>
>>>
>>> "Toby" <josdek2@aol.com> wrote in message news:i8vTj.791$b%1.295@trndny04...
>>>>I have an Astron RS-20A, 20amp 12v fixed DC supply. I've heard that people
>>>>have modified this model to become a variable voltage supply but have not
>>>>found any schematics etc for this mod. Can anyone point me in the right
>>>>direction? Thanks!
>>>>
>>>
>>> Here is the schematic for a 35, it should ve similar to the 20 except for
>>> an extra pass transistor or two.
>>>
>>> http://www.repeater-builder.com/astron/pix/astron-vs35m.jpg
>
>The diagram looks strange to me, with a direct connection from the
>higher voltage driver supply (e.g. pin 12 of the 723 or collector of
>Q2) to the base of the series pass transistors.
>
>With a higher separate driver power supply the driver current should
>flow through the Q2 driver transistor, through the small resistors
>into the base connection of the series pass transistor. Thus in the
>diagram the direct connection from the driver supply to the series
>pass transistor base should be removed.
>

You're right about the schematic in the link above. There is an error in the drawing. The wire between the collector of Q2 and the bases of the pass transistors Q101 and Q102 should not be there. That connection would put full rectifier output on the bases of the pass transistors, turning them fully on, resulting in the PS output going way high with no regulation. Maybe even destroying the pass transistors.

However, the link is to a schematic for a RS-35, not an RS-20. The OP has an RS-20, and the proper schematic link should be
http://www.repeater-builder.com/astron/pix/astron-rs20-1988-09-23.gif.

>>I modded one of those significantly. Too long ago to remember the exact
>>thing I did, but DO put that crowbar SCR anode on the collector of the
>>pass transistors. If it trips as is, you kiss the current meter and
>>expensive current sense resistor goodbye.

Remember that the purpose of the crowbar is to protect the load from power supply overvoltage, not to protect the power supply. The crowbar should be connected to the regulator output, not the input. If connected to the input, the reservoir capacitor(s) on the output are still charged when the crowbar fires, and the overvoltage condition is applied to the load until the capacitors drain. The load is unprotected.

Remember also that most of the Astron supplies have current foldback limiting. That means that on a shorted output condition, the regulator should reduce the available current into the short to a significantly lower level, protecting the pass elements and regulator.
>
>When using crowbars, there should be a some kind of fuse on the
>feeding side, preferably immediately after the filter capacitor.
>
>If the crowbar is before the series pass transistors, it is a good
>idea to put a large reverse biased diode across the series transistors
>(CR7 in the diagram), which would discharge any large capacitors on
>the regulated side through the crowbar. Without the diode, the
>collector side would be at 0 V after the crowbar tripped, but the
>emitters could still be at +12 V due to any large capacitors on the
>regulated side.
>
>Paul OH3LWR
>
==============

Dave M

Never take a laxative and a sleeping pill at the same time!!

From -3599016370610863395
X-Google-Thread: fc8b1,cb8e7554947a1fa
X-Google-Thread: 108228,cb8e7554947a1fa
X-Google-Thread: fc2a5,4c40e06a88e8ff2a,start

X-Google-Thread: 108122,4c40e06a88e8ff2a,start
X-Google-Attributes: gidfc8b1,gid108228,gidfc2a5,gid108122,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.194.249.MISMATCH!news-out.readnews.com!transit3.readnews.com!panix!
panix2.panix.com!arthures
From: A <arthures@panix.com>
Newsgroups: rec.radio.amateur.boatanchors,alt.ham-radio.marketplace,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: Available: 6146s
Date: Thu, 29 May 2008 19:29:15 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 20
Message-ID: <Pine.NEB.4.64.0805291921310.11481@panix2.panix.com>
References: <0ba7a171-c56f-4d08-bfea-3b4b08171ade@c19g2000prf.googlegroups.com>
NNTP-Posting-Host: panix2.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1212103756 23807 166.84.1.2 (29 May 2008 23:29:16 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 29 May 2008 23:29:16 +0000 (UTC)
In-Reply-To: <0ba7a171-c56f-4d08-bfea-3b4b08171ade@c19g2000prf.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.boatanchors:222 alt.ham-radio.marketplace:15 rec.radio.amateur.homebrew:92 rec.radio.amateur.equipment:85

I have a number of 6146s that I know I'll never use in the future and would like to sell them to someone who will, or wants spares.

All used, many known to be good from prior use or users. Couple in original boxes. Might be one 6146a, one 6146w. If this is important, let me know.

$3.00 money order per each, plus postage (USPS).

$2.50 each for all to one buyer.

Respond to the given email address associated with this post (its live but has spam assasin set up so don't talk too much commercialism or it might get bombed to /dev/null). If I don't respond in a day, then make a post responding to this and give your munged email address and I'll get back to you.

Art

From 291808847121920987
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!

```
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 29 May 2008 19:23:47 -0500
Date: Fri, 30 May 2008 00:23:47 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
<7aerg5-09m.ln1@radagast.org> <SbadnbMpgbka5abVnZ2dnUVZ_sjinZ2d@bright.net>
<g1m8ff$uti$1@f04n12.cac.psu.edu>
In-Reply-To: <g1m8ff$uti$1@f04n12.cac.psu.edu>
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NNTP-Posting-Host: 64.33.199.218
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i3L3S7VA7Q==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:93
```

Michael Coslo wrote:

> Scott wrote:
>
>>
>> I just put a glob of solder on the soldering iron tip and dunk the
>> enameled wire into it until the enamel melts and the solder tins the
>> end of the wire. Been doing that for over 20 years now....
>
>
>
> Really Scott, if it hasn't tinned after 20 years, it probably isn't
> going to... hehe, sorry, couldn't help myself! ;^)
>
>   - 73 de Mike N3LI -

LOL! Ha! Good one. I didn't even catch that one :) My high school
English teacher would probably slap me for that one ;)

Scott
N0EDV

```
From 3155813085098202995
X-Google-Thread: fc2a5,77ba27d5105a7115
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nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!feeder.erje.net!feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!
53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Modify Astron Power Supply
Message-ID: <o0av34l6gdmg0ro1tjr4k5nrq5i1i5h3e9@4ax.com>
References: <i8vTj.791$b%1.295@trndny04>
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Date: Fri, 30 May 2008 10:10:21 +0300
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X-Complaints-To: newsmaster@saunalahti.com
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10:10:15 EEST)
NNTP-Posting-Date: Fri, 30 May 2008 10:10:15 EEST
Organization: Saunalahti Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:94
```

On Thu, 29 May 2008 18:57:47 -0400, Dave M <masondg4xx4@cxxomcast.net>
wrote:

>Remember that the purpose of the crowbar is to protect the load from power
>supply overvoltage, not to protect the power supply. The crowbar should be
>connected to the regulator output, not the input. If connected to the input,
>the reservoir capacitor(s) on the output are still charged when the crowbar
>fires, and the overvoltage condition is applied to the load until the capacitors
>drain. The load is unprotected.

Just put a reverse biased diode across the series pass transistors.
When the crowbar at the main capacitor fires, the output capacitor
will be discharged through that diode and crowbar, protecting the
load.

>
>Remember also that most of the Astron supplies have current foldback limiting.
>That means that on a shorted output condition, the regulator should reduce the
>available current into the short to a significantly lower level, protecting the
>pass elements and regulator.

Foldback limiting requires that the differential amplifier (in the

723), driver and series pass transistors are working properly, thus,
the crowbar+foldback limiting works properly only if the 723 reference
voltage is erratic. In all other failure modes, such as dead 723,
shorts in driver or series pass transistors, it is quite unlikely that
the foldback would work as expected, if the crowbar fires due to
output overvoltage.

Paul OH3LWR

From -8721360649447365331
X-Google-Thread: fc2a5,30071a8b97143872
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news1.google.com!newsfeed.stanford.edu!newsfeed.news.ucla.edu!ucdavis!not-for-mail
From: Skipp on yahoo <skipp025@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Grid circuits for RF power amplifiers
Date: Fri, 30 May 2008 16:14:03 +0000 (UTC)
Organization: University of California, Davis
Lines: 40
Sender: Skipp May <skipp@vici.ucdavis.edu>
Message-ID: <g1p94b$j74$1@skeeter.ucdavis.edu>
References: <673s8qF2mied6U1@mid.individual.net>
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X-Complaints-To: usenet@ucdavis.edu
NNTP-Posting-Date: Fri, 30 May 2008 16:14:03 +0000 (UTC)
User-Agent: tin/1.4.7-20030322 ("Suggestions") (UNIX) (SunOS/5.8 (sun4u))
Xref: g2news1.google.com rec.radio.amateur.homebrew:95

I would invite you to join the Yahoo rfamplifiers group and ask the
question over there.

http://groups.yahoo.com/group/rfamplifiers

cheers,
s.

: Richard <nearlynews_email@ntlworld.com> wrote:
: I need some information on an appropriate input circuit for a small RF power
: amplifier using a 2E26 operating in the HF region. Output would be about 27
: watts. Drive input power about 0.12 watts.

: I want the input circuit of the PA to present a 50 or 75 Ohm load to the
: driver (the exciter - probably a CW QRP rig - will supply about 0.12
: watts). Perhaps (I muse) it would be good, (certainly it would be
: convenient) if the input circuit was NOT a tuned input circuit, but see
: below.

: Questions (that incidentally show my thinking):

: Can anyone point me to a website that gives the design data for an
: appropriate circuit given the things I have mentioned?

: Is it okay to have an untuned grid circuit? I muse no problem if the
: exciter has a pi-network output circuit. I just wonder that if the exciter
: uses a pi network, if that would represent both the exciter anode/collector
: tank circuit, and the grid tank circuit. (So, really there would be a tuned
: input circuit - the output pi-network of the exciter). (Just shows I know
: nothin', I'm not even certain whether solid stage rigs use Pi-networks to
: match with the load).

: Any thoughts on biasing arrangement - fixed bias, drive bias, or cathode
: bias? (Perhaps fixed bias is best - no need for a clamp valve). Grid bias
: needs to be about - 45 volts. Muse that a simple RF choke supplying the bias
: to grid would suffice.

: So, basically, I want to be able to plug a QRP rig into the PA, tune up the
: QRP rig and the plate circuit of PA, and that's it.

From -1723920978324783699
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s33g2000pri.googlegroups.com!not-for-mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Fri, 30 May 2008 11:09:54 -0700 (PDT)
Organization: http://groups.google.com
Lines: 132
Message-ID: <477f97d9-e640-4d69-ad4c-b6b5c2238cce@s33g2000pri.googlegroups.com>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
     <7aerg5-09m.ln1@radagast.org> <f32ff7a4-40f7-4007-b071-0c0b2507a5c3@2g2000hsn.googlegroups.com>
     <g1m9hh$10dq$1@f04n12.cac.psu.edu>
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1212170995 29086 127.0.0.1 (30 May 2008 18:09:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 30 May 2008 18:09:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s33g2000pri.googlegroups.com; posting-host=207.200.116.11;
     posting-account=0Q4qJQoAAAB4vjIbnPnpY8JqAcYZv7Os
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
     SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR

```
3.0.04506),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-ntc-te01.proxy.aol.com[CFC87081] (Prism/1.2.1), HTTP/1.1
     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:96
```

From: Michael Coslo on Thurs, May 29 2008 6:02 am:
>
>AF6AY wrote:
>> From: dplatt@radagast.org (Dave Platt) wrote on Mon, May 26 2008:
>>> In article <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>,
>>> W3CQH <hsgorden@comcast.net> wrote:

>I wonder if items such as Strip-X became obsolete due to changes in
>insulation composition, i.e. not working on new types of insulation. But
>I do agree about the folk who would protect us from ourselves. Strip-X
>was pretty innocuous stuff.

As far as I could tell from communications with General Cement, it was FEDERAL REGULATIONS that was the issue. GC already had over a hundred products in its catalog so they weren't going to suffer any real loss in income. They've been making 'radio' chemical products for over 75 years.

>Did you by any chance try some old style enameled wire in your
>experiment above?

"Experiment?" The only experimentation I did was well AFTER my last bottle of Strip-X was used up, residue dried out. Strip-X from GC worked for me the first time I tried it long, long ago. That experimentation I wrote about was to find a possible substitute for GC Strip-X.

GC Strip-X has worked on enamel-coated magnet wire, PolythermalEze (a trade name), different kinds of wire-wrap wire. It didn't work on the surplus Teflon-coated #25 AWG magnet wire I got surplus from a transformer maker (#25 is an odd gauge, heh heh, but the transformer makers use practically every gauge in the AWG table). Tetrafluouroethylene is pretty inert stuff so few chemicals will affect it. Teflon also abrades easily compared to other insulations so it is relatively easy to strip with a knife.

>   The acetone issue is a strange one. Acetone is one of the safer
>solvents out there, heck our body even produces some acetone.

I think that should be 'acetyls' in the human body, not acetone per se. <shrug>

Acetone won't strip off enamels or other polymers used on magnet wire. I tried that, too, also toluene.

Acetone as a solvent was dropped from the model hobby industry chemicals once gas-powered models started using "hot fuel," the methanol-based stuff for glow plug engines that took over from real spark plug ignition model gas engines in the late 1940s. Methanol softened acetate-based paints, whereas the 'ordinary' gasoline used in spark ignition engine fuel did not affect acetone-solvent lacquer commonly called "dope" in model hobby industry jargon. For years Testor Chemical Company, also in Rockford, IL, had lacquer paint bottle labels of DOPE in all-capitals, something you just CANNOT DO in today's restrictive society. Building model airplanes was fun, the "dope" smelled very nice, so the blue-noses made all kinds of bad noises about the "evils" of having fun in a hobby. Sigh.

Digression: The first small two-cycle gasoline engines used real spark plugs of very small size. I still have two Champion brand spark plugs in a storage area...less than a half-inch long...and those are for the big class C and D engine displacements. I learned to solder wires properly by making the spark ignition packages for gas-powered models. The "spark coil" for those was a tiny one that was picked up by the first electronic flash units for camera use in the 1950s...ideal for igniting the Xenon flash tubes that replaced the one-shot photoflash bulbs.

Yes, I was emitting "spark" RF in the late 1940s with those spark-ignition engines, all without being licensed to do so. So were other gas-engine modelers and just about EVERY running automobile of that time! :-)

>> My late father-in-law was a polymer chemist. He died in 1977
>> so can't help me. I just hope that some chemist could come to
>> the aid of us hobbyists using coated magnet wire and provide
>> us with a GOOD product like Strip-X was. Meanwhile, it's back
>> to being VERY careful with a sharp X-Acto knofe and scraping
>> coatings. With #34 AWG that requires Zen-like calmness...
>
>That is an understatement1 8^) I have to make sure I am in a good mood,
>and no coffee for me that day before I attempt that sort of thing.

Coffee calms me down. Always has. Makes for good moods. :-)

Actually, I use a fine emery finishing paper to strip fine gauges of enamel-coated wire. I've used X-Acto hobby knives for the heavier gauges. Emery paper (easy to get at do-it-yourself stores) allows a gentle stroking of a folded emery paper over the wire. I find it works better to draw the emery paper over the wire rather than pulling the wire through the paper. Less nicking than with a knife blade for #28 to #34. I just finished a few small toroid inductors using #34 enamel-covered last week. Not recommended for beginners. :-)

PATIENCE (in all-caps) is needed to make toroids of the T37 size (about 3/8" OD), drawing a very-carefully-folded wire bundle through the center hole in a toroid core. :-) THAT is the "Zen" thing. Good self-control is absolutely necessary, can't use slap-dash hurry-up behavior.

By the way, don't use "Q-Dope" for coating finished inductors, any type. Despite what the ads say, it does NOT enhance the coil's Q. Trials of before-after measurements on a Q-Meter haven't shown goodness. ALL coatings degrade inductor Q. I've found that oil-based 'maritime' clear varnish to result in less degredation of Q than other coatings. I've used McCloskey "Gym-Seal" brand with good success on making inductor coatings that adhere to windings for years. It is available nationally in do-it-yourself stores.

Q-Dope (originally acetate-solvent based, now probably using toluene solvent) will "lift" from smooth surfaces within a year in climates with only moderate humidity. Q-Dope only adheres well to all-polymer-based surfaces, won't get into fine pores. 'Maritime' varnishes NOT polyurethane based DO grab porous surfaces. I've tried various polyurethane-based varnishes with mixed results; the makers of those apparently have a rather large variation of ingredients. Varnishes take 2, 3 days to properly cure if used on coils. That's the down-side of using the stuff in hobby applications. However, on a Q-Meter the characteristics of 'maritime' varnish coated inductors don't change much after it has reached a tacky state, roughly 12 hours after application. It ain't for 'weekender' projects started on a Saturday and 'finished' on Sunday.

73, Len AF6AY

```
From -4867041687169940290
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!34g2000hsh.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Fri, 30 May 2008 11:44:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <ea5c48b7-3033-445e-b4b0-3cb78d20edce@34g2000hsh.googlegroups.com>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
     <6e8316be-7f3c-4eea-86d3-073974647334@k37g2000hsf.googlegroups.com>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
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X-Trace: posting.google.com 1212173061 2393 127.0.0.1 (30 May 2008 18:44:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 30 May 2008 18:44:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 34g2000hsh.googlegroups.com; posting-host=204.108.8.5;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:97

On May 28, 5:18=A0pm, Mike Silva <snarflem...@yahoo.com> wrote:
> On May 26, 12:43=A0pm, "W3CQH" <hsgor...@comcast.net> wrote:
>
> > Does anybody have the name of the substance that was sold years ago for
> > removing the enamel coating from wires, or maybe the name of something n=
ew?
> > You would soak the wire in it and it would soften the coating and then y=
ou
> > just wiped the goop off the wire.
>
> > 73's
>
> I've always burned off the insulation with a lighter, removed the
> remaining ash with a couple swipes of very fine sandpaper, and
> tinned. =A0Never had a problem yet.
>
> Mike

Same idea but I use an alcohol burner like the ones that used to come
in chemistry sets. Those burners are incredably useul. Combined with a
blowpipe you can melt glass and braze small parts.

Jimmie



From -5985577258290296017
X-Google-Thread: 10c2ee,a97429113ebf655
X-Google-Thread: fc2a5,a97429113ebf655
X-Google-Attributes: gid10c2ee,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.earthlink.com!
news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 30 May 2008 20:49:49 -0500
From: "Omer  S" <oabukovac@earthlink.net>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
References: <%dC%j.34190$fk.17735@trnddc06> <7gC%j.34191$fk.21961@trnddc06>
Subject: Re: Breting 14 tube location please.
Date: Fri, 30 May 2008 18:50:10 -0700
X-Priority: 3
X-MSMail-Priority: Normal
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X-Newsreader: Microsoft Outlook Express 6.00.2900.5512
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5512
X-RFC2646: Format=Flowed; Response
Message-ID: <9JmdnUE4-uMgM93VnZ2dnUVZ_vWdnZ2d@earthlink.com>
Lines: 28
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NNTP-Posting-Host: 216.175.66.139
X-Trace: sv3-8yF3Zc7MUjW9DnUlYBfmFuvq5KMTXVFK5Xt6qqS67Z95OfQ/4jhWEOvH5BDD25a/SoN/
KE8N3Xy4wZU!
J04Y2kOmMlQIF76FF1K9+MSX6cY8WFhRb16qDCGok7QAGck+vvO57gsBe7EC8pcyppleHvAsiI5Y!
r2+LTNLYWb1yECAVd6FGehRhOjQ9oRSj++mL
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.antiques.radio+phono:1191
rec.radio.amateur.homebrew:98

Paul,

Check this web site out. Perhaps these schematics, will give you better
idea what's going on.

Omer

http://members.cox.net/n7rk//breting.htm

"Paul P" <REMOVE paul @ REMOVE ppinyot . REMOVEcom> wrote in message
news:7gC%j.34191$fk.21961@trnddc06...
> Does some one have a diagram of the tube locations for a Breting 14? I
> would appreciate saving the time of ferreting out the schematic against
> the
> sockets.
>
> Thanks,
> Paul P.
>
> paul att ppinyot   dot   com
> http://www.ppinyot.com/breting_14.htm
>

From 4727932377706426313
X-Google-Thread: 10c2ee,a97429113ebf655
X-Google-Thread: fc2a5,a97429113ebf655
X-Google-Attributes: gid10c2ee,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

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Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!roadrunner.com!not-
for-mail
Date: Fri, 30 May 2008 22:26:29 -0700
From: Jeffrey D Angus <jangus@socal.rr.com>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: Re: Breting 14 tube location please.
References: <%dC%j.34190$fk.17735@trnddc06> <7gC%j.34191$fk.21961@trnddc06>
<9JmdnUE4-uMgM93VnZ2dnUVZ_vWdnZ2d@earthlink.com>
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Lines: 15
Message-ID: <4840e17f$0$4111$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 24.24.217.33
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.antiques.radio+phono:1195
rec.radio.amateur.homebrew:99

Omer S wrote:
> Paul,
>
> Check this web site out.  Perhaps these schematics, will give you better
> idea what's going on.
>
> Omer
>
>
> http://members.cox.net/n7rk//breting.htm

Ooooh, he has a Breting 9. I have one of those at the shop I
need to recap and make work again.

Jeff



From -182887899260181786
X-Google-Thread: fc2a5,55c8708abe050551
X-Google-Thread: 112d1e,55c8708abe050551
X-Google-Attributes: gidfc2a5,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
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news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx02.iad01.newshosting.com!newshosting.com!novia!feed.news.qwest.net!mpls-
nntp-07.inet.qwest.net!news.qwest.net!not-for-mail
Date: Sat, 31 May 2008 03:50:55 -0700
From: PhattyMo <phattymo@not.net>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
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Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Am I getting multipath distortion?
References: <1hyqimxunfulr$.rxi9kepwelq5.dlg@40tude.net>
<e256f3f7-0289-44c0-8d93-939e267ef28a@2g2000hsn.googlegroups.com>
     <bf51d8ec-3e90-492a-845e-9ae6de199b52@2g2000hsn.googlegroups.com> <54e908a7-eb67-49e0-896b-13310010d212@j22g2000hsf.googlegroups.com>
In-Reply-To: <54e908a7-eb67-49e0-896b-13310010d212@j22g2000hsf.googlegroups.com>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 34
Message-ID: <48412d8d$0$48216$815e3792@news.qwest.net>
Organization: Qwest Communications Corporation
NNTP-Posting-Host: 65074974.news.qwest.net
X-Trace:
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AMLG7O5VC@T@?<Rg@6?PI
X-Complaints-To: news@qwest.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:100
sci.electronics.design:4665

Frank Raffaeli wrote:
> On May 1, 9:58 pm, mpm <mpmill...@aol.com> wrote:
>> On May 1, 10:48�pm, mpm <mpmill...@aol.com> wrote:
>>
>>> I second the thought about electrical safety around kids and water.
>>> -mpm
>>> .
>> Oops, another thought just came to me.
>> If you're moving the camera / transmitter, it might have a real
>> chicken-s^it timebase (crystal?) or whatever and could be sensitive to
>> motion and going slightly off frequency with every bump (step taken).
>> Maybe you can eliminate this possibiliity by walking very softly.
>> Like that Karate guy on TV used to do on the onion paper... :)
>
> It is almost certainly multipath: The frequency, mobility, and
> environment are wrong for what you're trying to do. If you can lower
> the frequency - the lower, the better - then this will help. For
> example, 72 MHz. You an make it legal by applying for an
> experimenter's permit (if in the USA, see FCC form 442).
>
> I'm not sure if you can find any commercial transmitters below 900
> MHz, so you may need to DIY.
>
> There may be wireless products for DVB-H, DVB-T which would
> theoretically be an improvement.
>
> As one poster mentioned, your best bet may be a cable.
>
> Frank Raffaeli

What about a plain old modulator?
They make some decent frequency agile ones for whole-house distribution

and whatnot,some have up to ~1W of output. (CATV modulators)

From -4311831606119538478
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!wn11feed!
worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
From: You <you@shadow.orgs>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Astron power supplies...
Organization: Shadow.orgs
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
<pan.2008.05.05.06.51.07.884804@localhost.localdomain> <d52cef37-9511-41a1-8d8c-e4a044f3912d@w4g2000prd.googlegroups.com>
<pan.2008.05.07.01.21.14.173454@localhost.localdomain>
<fast-2D6DAD.13294907052008@netnews.worldnet.att.net>
<Pine.NEB.4.64.0805151732540.20677@panix2.panix.com> <seCdncWUuMX6-bDVnZ2dneKdnZydnZ2d@pipex.net>
<you-647FF8.13080416052008@netnews.worldnet.att.net>
<g1mvm7$ko8$7@skeeter.ucdavis.edu>
User-Agent: MT-NewsWatcher/3.5.3b2 (PPC Mac OS X)
Message-ID: <you-CDC790.08225031052008@netnews.worldnet.att.net>
Lines: 17
Date: Sat, 31 May 2008 16:22:54 GMT
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X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1212250974 12.12.208.41 (Sat, 31 May 2008 16:22:54 GMT)
NNTP-Posting-Date: Sat, 31 May 2008 16:22:54 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:101

In article <g1mvm7$ko8$7@skeeter.ucdavis.edu>,
 Skipp Isaham <skipp025@yahoo.com> wrote:

> : and if your really smart, you will dump the fuse, and replace it with
> : a Resettable Circuit Breaker, because Murphy's Law states the Crowbar
> : will do it's thing, ALWAYS at the worst possible moment, and the
> : appropriate replacement fuse will be a 5 miles drive away, at the
> : closest. You mileage may vary.....
>
> The auto reset circuit breaker helps to start the fire, which takes out
> the site/building. Not a good idea...
>
> cheers,
> s.

Nobody said ANYTHING about an "auto reset" circuit breaker, or anything
else "auto reset". Don't be reading in your own prejudices.....

From 7458214701274663786
X-Google-Thread: 10c2ee,a97429113ebf655
X-Google-Thread: fc2a5,a97429113ebf655
X-Google-Attributes: gid10c2ee,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
x1g2000prh.googlegroups.com!not-for-mail
From: jangus@socal.rr.com
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: Re: Breting 14 tube location please.
Date: Sat, 31 May 2008 19:11:41 -0700 (PDT)
Organization: http://groups.google.com
Lines: 10
Message-ID: <1582ca51-8e46-4d24-9857-f9d4f8425b40@x1g2000prh.googlegroups.com>
References: <%dC%j.34190$fk.17735@trnddc06> <7gC%j.34191$fk.21961@trnddc06>
     <9JmdnUE4-uMgM93VnZ2dnUVZ_vWdnZ2d@earthlink.com>
<4840e17f$0$4111$4c368faf@roadrunner.com>
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Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1212286301 29212 127.0.0.1 (1 Jun 2008 02:11:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 1 Jun 2008 02:11:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x1g2000prh.googlegroups.com; posting-host=64.183.19.52;
     posting-account=TblaDQoAAABNGSdSla2TH9WULx46vEyc
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.antiques.radio+phono:1217
rec.radio.amateur.homebrew:102

On May 30, 10:26 pm, Jeffrey D Angus <jan...@socal.rr.com> wrote:
>
> Ooooh, he has a Breting 9. I have one of those at the shop I
> need to recap and make work again.

It lives again. Well, the only way I thinkit's a week end is if I get
to work on my own stuff once in a while.

Jeff

From -4222190732785665714
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!59g2000hsb.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Re: REMOVING ENAMEL COATING
Date: Sun, 1 Jun 2008 06:06:42 -0700 (PDT)
Organization: http://groups.google.com
Lines: 124
Message-ID: <7fbe5a7d-63b9-40d7-ad0c-e8f279768201@59g2000hsb.googlegroups.com>
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     <7aerg5-09m.ln1@radagast.org> <f32ff7a4-40f7-4007-
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     <JSb%j.229$Cr.45@fe101.usenetserver.com> <4e7e628e-1ff3-4621-
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     <g1mbdj$u1e$1@f04n12.cac.psu.edu>
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     98),gzip(gfe),gzip(gfe)
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     HTTP/1.1 cache-mtc-ah08.proxy.aol.com[400C75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:103

On May 29, 9:34=EF=BF=BDam, Michael Coslo <m...@psu.edu> wrote:
> N...@aol.com wrote:
> > On May 28, 8:03 am, gwatts <gwa...@frontiernet.net> wrote:
> >> AF6AY wrote:

> >>> The do-gooders done did too much with all those
> >>> warnings and
> >>> attempts to protect us all from everything.

> > If a product is dangerous, why shouldn't it have warnings?
> > Particularly when there are known carcinogens and other
> > health hazards involved?

> > It's not being a "do-gooder" or "doing too much"
> > to discover hazards
> > and eliminate or contain them.

> I think it a matter of magnitude.

Not really. See below.

> Some items such as Benzene are pretty dangerous
> and have an established
> track record of making people sick. Those should go
> whenever possible.
```

Agreed.

> OTOH, the little bottle of Strip-X with it's foul stench is probably not
> going to cause anyone harm outside of self inflicted (i.e. suicide
> attempts)

But it *is* dangerous stuff, and should have adequate warnings,
shouldn't it?

What does

"do-gooder done did too much with all those warnings and
attempts to protect us all from everything."

really mean? Are there too many warnings on dangerous chemicals?

More important, do we really *know* that Strip-X isn't going to cause
anyone harm unless intentionally abused?

Did every user of the stuff do so in a "well-ventilated area"? I think
not.

> Of course, I'm not so sure if Strip-X was discontinued
> because of health
> concerns or that it just didn't work any more on new generations of
> enameled wire.

AFAIK, it worked on all enameled wire. Teflon isn't an "enamel".

> > Sure, not everyone who uses Strip-X will get cancer.
> > But some of the
> > components of it are known carcinogens, and a proven
> > hazard. More important,
> > we can't know ahead of time who the susceptible folks are.

> > More likely, they looked at the *possibility* of such a lawsuit, the
> > scientific evidence of the hazards of the ingredients, the limited
> > profit and
> > declining sales, and just stopped making the product.
>
> > Once a chemical is shown to be dangerous, the manufacturers
> > can't
> > claim ignorance anymore.

> > Since the formula for Strip-X appears to be in the public
> > domain,
> > anybody can make it and sell it. Would *you* be willing
> > to set up shop to make
> > it and sell it, with all the risks that entails, and the very limited
> > market for it?
>

> There you touch on the real issue with items like Strip-X. The
> manufacturing side. While I might have my little bottle that I get
> out a
> time or two during the day, the people making the stuff have
> exposure issues well beyond that.

Depending on the manufacturing process. The history of industry is full of examples of people being slowly killed at work by exposure to hazards. Asbestos, radium paint, carbon tet, MEK, all sorts of wonderful stuff.

The fact that something doesn't kill everyone who gets near it doesn't make it safe enough.

> My main point is that while we might not get much
> exposure, those who produce it just might be getting
> serious contact with nasty chemicals.

'zactly.

It's all about avoidable risk.

Another example:

Once upon a time, cars had single main hydraulic brake systems. The master cylinder had one pump that fed all four wheel cylinders.

It was simple and effective, but a failure anywhere in the system (wheel cylinder, master cylinder, brake lines, etc.) meant total hydraulic brake system failure.

Then the "do-gooders" pushed for dual brake systems, on the theory that most single failures would leave half the brake system working, plus a warning system.

Critics said that the cost and complexity were too much, and that complete brake failure was very rare in then-modern cars with single systems.

The "do-gooders" won, and dual brake systems with warnings became the standard.

Was that excessive? I guess it depends on whether you've ever had the brake pedal go right to the floor at a critical moment.

73 de Jim, N2EY

From 4769171146456626781
X-Google-Thread: fc2a5,22c75f654cc38996
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out.usenetserver.com!news.usenetserver.com!pc03.usenetserver.com!
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From: Dave Heil <k8mn@frontiernet.net>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
<6e8316be-7f3c-4eea-86d3-073974647334@k37g2000hsf.googlegroups.com>
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NNTP-Posting-Date: Sun, 01 Jun 2008 13:25:03 EDT
Organization: Frontier
Xref: g2news1.google.com rec.radio.amateur.homebrew:104
```

The best product for stripping enamel wire is one which not many
hobbyists will have around the home: a solder pot.

Foster Transformer in Cincinnati used this method for stripping enamel
and tinning the ends of transformer leads simultaneously. All they did
was do straighten out the leads and dip the wire ends into the pot for
about five seconds.

Dave K8MN

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mail
From: AndyTao <22265737@qq.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Calibrator
Date: Sun, 1 Jun 2008 17:11:52 -0700 (PDT)
Organization: http://groups.google.com
Lines: 2
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     MAXTHON 2.0),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:105

Bench and portable calibrators Press, Temp, Voltage, current, Freq
http://www.ogogo123sina.cn/



From 6915806227969019510
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Sun, 1 Jun 2008 18:54:52 -0700 (PDT)
Organization: http://groups.google.com
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     98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-dtc-ti06.proxy.aol.com[CDBC7106] (Prism/1.2.1),
     HTTP/1.1 cache-dtc-ah08.proxy.aol.com[CDBC75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:106

On Jun 1, 1:24=EF=BF=BDpm, Dave Heil <k...@frontiernet.net> wrote:
> The best product for stripping enamel wire is one which not many
> hobbyists will have around the home: =EF=BF=BDa solder pot.
```

Yup. I've used them.

Of course someone might protest that the discussion is about doing the
job *chemically*....
>
> Foster Transformer in Cincinnati used this method for stripping
> enamel
> and tinning the ends of transformer leads simultaneously. =EF=BF=BDAll the=
y > did
> was do straighten out the leads and dip the wire ends into the pot > for a=
bout five seconds.

Pretty much standard in the electronics industry, really. Faster and
less costly than Strip-X for production work.

At Southgate Radio, for multiple units, an improvised solder pot is
made by heating a cleaned-out tuna can full of solder splashes over a
propane torch or stove burner(with appropriate safety precautions).
For small jobs, a blob of solder on the 100 watt American Beauty iron
does the job.

Elecraft transceiver kits (except the K3) require that you wind
toroids and strip the wire ends. They recommend the solder-blob
method, and since the wire is relatively small you don't need a big
iron. My military-surplus Weller WCTPK kit does the job very well.

73 de Jim, N2EY

From 4141284227688794360
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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pc02.usenetserver.com!fe097.usenetserver.com.POSTED!53ab2750!not-for-mail
From: Dave Heil <k8mn@frontiernet.net>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
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13:22:07 EDT)
NNTP-Posting-Date: Mon, 02 Jun 2008 13:22:07 EDT
Organization: Frontier
Xref: g2news1.google.com rec.radio.amateur.homebrew:107

N2EY@aol.com wrote:
> On Jun 1, 1:24�pm, Dave Heil <k...@frontiernet.net> wrote:
>> The best product for stripping enamel wire is one which not many
>> hobbyists will have around the home: �a solder pot.
>
> Yup. I've used them.
>
> Of course someone might protest that the discussion is about doing the
> job *chemically*....

Chemically-schmemically. Do they want to remove enamel or discuss
semantics?

>> Foster Transformer in Cincinnati used this method for stripping
>> enamel
>> and tinning the ends of transformer leads simultaneously. �All they > did
>> was do straighten out the leads and dip the wire ends into the pot > for about
five seconds.
>
> Pretty much standard in the electronics industry, really. Faster and
> less costly than Strip-X for production work.

I think I've already related the tale in r.r.a.p. that I had the
President of Ideal Tool make a call on Foster with me. His plan was to
sell one of the company's new abrasive stone type enamel removing
machines. After the kindly chief engineer showed how Foster
removed/tinned with the solder pot, the man from Ideal told me that he
didn't believe there was much of a market for his machine.

> At Southgate Radio, for multiple units, an improvised solder pot is
> made by heating a cleaned-out tuna can full of solder splashes over a
> propane torch or stove burner(with appropriate safety precautions).
> For small jobs, a blob of solder on the 100 watt American Beauty iron
> does the job.

Waste not, want not. I think I'd just wait until the XYL isn't home and
heat the can on a burner of the gas stove. Doesn't it sound like
something which could go terribly, terribly wrong?

> Elecraft transceiver kits (except the K3) require that you wind
> toroids and strip the wire ends. They recommend the solder-blob
> method, and since the wire is relatively small you don't need a big
> iron. My military-surplus Weller WCTPK kit does the job very well.

I've often used a razor blade or X-acto knife to get the job done.

Dave K8MN

From -2631289418460808633
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
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From: Michael Coslo <mjc5@psu.edu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Mon, 02 Jun 2008 14:38:47 -0400
Organization: Penn State University, Center for Academic Computing
Lines: 111
Message-ID: <g21enn$17ne$1@f04n12.cac.psu.edu>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:108

N2EY@aol.com wrote:
> On May 29, 9:34�am, Michael Coslo <m...@psu.edu> wrote:
>> N...@aol.com wrote:
>>> On May 28, 8:03 am, gwatts <gwa...@frontiernet.net> wrote:
>>>> AF6AY wrote:
>
>>>>> The do-gooders done did too much with all those
>>>>> warnings and
>>>>> attempts to protect us all from everything.
>
>>> If a product is dangerous, why shouldn't it have warnings?
>>> Particularly when there are known carcinogens and other
>>> health hazards involved?
>
>>> It's not being a "do-gooder" or "doing too much"
>>> to discover hazards
>>> and eliminate or contain them.

>
>> I think it a matter of magnitude.
>
> Not really. See below.
>
>> Some items such as Benzene are pretty dangerous
>> and have an established
>> track record of making people sick. Those should go
>> whenever possible.
>
> Agreed.
>
>> OTOH, the little bottle of Strip-X with it's foul stench is probably not
>> going to cause anyone harm outside of self inflicted (i.e. suicide
>> attempts)
>
> But it *is* dangerous stuff, and should have adequate warnings,
> shouldn't it?

There's my magnitude issue. I'm in no way implying that there be no
warning on the bottles. I am implying that it is a useful product, and
legislating it out of existence, or just making it too much trouble for
a company to produce is not a good thing.

We do have a system that is pretty good. The MSDS reports are pretty
slick and non-sensational.

Of course, they won't fit on that little bottle! 8^)

I'd rather read that than something about what "The state of California
knows" you know, those strange postings beside gasoline pumps? This
product is know to the State of California as a carcinogen" type stuff.

I wonder how many people called up the state of California to talk about
that?

> What does "do-gooder done did too much with all those warnings and
> attempts to protect us all from everything."
> really mean? Are there too many warnings on dangerous chemicals?

I don't mind the warnings too much as long as they are not stupid
warnings. What I do mind is when a useful product goes away.

> More important, do we really *know* that Strip-X isn't going to cause
> anyone harm unless intentionally abused?

Or salted codfish for that matter? I know that sounds a little
sarcastic, but the point is that there is a statistical correlation
between large consumption of salted and smoked fish with stomach cancer.

> Did every user of the stuff do so in a "well-ventilated area"? I think
> not.

One can only give guidelines, not enforce them.

> Once upon a time, cars had single main hydraulic brake systems. The
> master cylinder had one pump that fed all four wheel cylinders.
>
> It was simple and effective, but a failure anywhere in the system
> (wheel cylinder, master cylinder, brake lines, etc.) meant total
> hydraulic brake system failure.
>
> Then the "do-gooders" pushed for dual brake systems, on the theory
> that most single failures would leave half the brake system working,
> plus a warning system.
>
> Critics said that the cost and complexity were too much, and that
> complete brake failure was very rare in then-modern cars with single
> systems.

> The "do-gooders" won, and dual brake systems with warnings became the
> standard.
>
> Was that excessive? I guess it depends on whether you've ever had the
> brake pedal go right to the floor at a critical moment.

For me at least, the comparison of mechanical with chemical issues is a little hard to work. I have long advocated such radical technology as strong roll cages, 5 point seat belts and fire suppression systems on automobiles if we want to get serious about safety.

On the other hand, I've silvered my telescope mirrors in my garage. This involves a litany of nasty stuff, from Silver nitrate to potassium hydroxide to nitric acid. (now that stuff is scary) And oddly enough, sucrose and citric acid. I'd hate to be not allowed to do such things because someone thought I might get hurt.

- 73 de Mike N3LI -

From -3586334377934796482
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Path: g2news1.google.com!news1.google.com!news.glorb.com!news.aset.psu.edu!not-for-mail
From: Michael Coslo <mjc5@psu.edu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Mon, 02 Jun 2008 14:40:31 -0400

Organization: Penn State University, Center for Academic Computing
Lines: 8
Message-ID: <g21eqv$17ne$2@f04n12.cac.psu.edu>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:109

Dave Heil wrote:
> The best product for stripping enamel wire is one which not many
> hobbyists will have around the home: a solder pot.

I've used them. They work like a champ. I think we dipped them in flux
for a second too.

- 73 de Mike N3LI -

From -1284360678095786224
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.aset.psu.edu!not-for-mail
From: Michael Coslo <mjc5@psu.edu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Mon, 02 Jun 2008 14:47:09 -0400
Organization: Penn State University, Center for Academic Computing
Lines: 46
Message-ID: <g21f7d$119k$1@f04n12.cac.psu.edu>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
<6e8316be-7f3c-4eea-86d3-073974647334@k37g2000hsf.googlegroups.com>
<kg5s34lra64p0hlgjl6h3mdhgh33k5eip9@4ax.com>
<PXA0k.4557$2g.4423@fe087.usenetserver.com> <10881264-3520-48c0-ac6b-7386dd23e9e7@l42g2000hsc.googlegroups.com>
<3%V0k.1887$nt1.1113@fe097.usenetserver.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 8bit
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GMT)
X-Complaints-To: usenet@f04n12.cac.psu.edu
NNTP-Posting-Date: Mon, 2 Jun 2008 18:47:09 +0000 (UTC)
User-Agent: Thunderbird 1.5 (Macintosh/20051201)
In-Reply-To: <3%V0k.1887$nt1.1113@fe097.usenetserver.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:110

Dave Heil wrote:
> N2EY@aol.com wrote:
>> On Jun 1, 1:24�pm, Dave Heil <k...@frontiernet.net> wrote:
>>> The best product for stripping enamel wire is one which not many
>>> hobbyists will have around the home: �a solder pot.
>>
>> Yup. I've used them.
>>
>> Of course someone might protest that the discussion is about doing the
>> job *chemically*....
>
> Chemically-schmemically. Do they want to remove enamel or discuss
> semantics?

Never thought of it one way or the other. I suppose if I had to classify
it as something, I'de callit chemical. But I don't get why that would be
a complaint about th eprocess.

> I think I've already related the tale in r.r.a.p. that I had the
> President of Ideal Tool make a call on Foster with me. His plan was to
> sell one of the company's new abrasive stone type enamel removing
> machines. After the kindly chief engineer showed how Foster
> removed/tinned with the solder pot, the man from Ideal told me that he
> didn't believe there was much of a market for his machine.
>
>> At Southgate Radio, for multiple units, an improvised solder pot is
>> made by heating a cleaned-out tuna can full of solder splashes over a
>> propane torch or stove burner(with appropriate safety precautions).
>> For small jobs, a blob of solder on the 100 watt American Beauty iron
>> does the job.
>
> Waste not, want not. I think I'd just wait until the XYL isn't home and
> heat the can on a burner of the gas stove. Doesn't it sound like
> something which could go terribly, terribly wrong?

Yes it does. I did have the occasion to melt some lead for a
counterbalance for a telescope I made. I took a cast iron saucepan and
put the lead in it, and melted it over a Coleman stove outside the
garage. I was a little concerned while I did it, but it all turned okay.

I wonder if there is a specific metal the solder pots used. I don't know
if critical applications would have an issue with contamination or not.
Solder is a bit corrosive.

- 73 de Mike N3LI -

```
From 8994102272153114968
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news2.google.com!postnews.google.com!
27g2000hsf.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Tue, 3 Jun 2008 04:33:00 -0700 (PDT)
Organization: http://groups.google.com
Lines: 74
Message-ID: <d16f326a-d34e-4dac-9fe5-9315374b72f2@27g2000hsf.googlegroups.com>
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NNTP-Posting-Date: Tue, 3 Jun 2008 11:33:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 27g2000hsf.googlegroups.com; posting-host=64.12.117.200;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
     98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-mtc-te01.proxy.aol.com[400C7081] (Prism/1.2.1),
     HTTP/1.1 cache-mtc-ah08.proxy.aol.com[400C75C8] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:111
```

On Jun 2, 1:22=C2=A0pm, Dave Heil <k...@frontiernet.net> wrote:
> N...@aol.com wrote:
> > On Jun 1, 1:24=EF=BF=BDpm, Dave Heil <k...@frontiernet.net> wrote:

> > Of course someone might protest that the discussion
> > is about doing the job *chemically*....

> Chemically-schmemically. =C2=A0Do they want to remove enamel
> or discuss semantics?

Some folks will argue just for the sake of arguing. And while they will talk a lot about their experience of decades past, they'll not say much about what they have actually done recently. Particularly in terms of actually building their own ham rigs or operating on the ham bands.

> >> All they did
> >> was do straighten out the leads and dip the wire ends
> >> into the pot for about five seconds.

> > Pretty much standard in the electronics industry, really. Faster > > and=

> > less costly than Strip-X for production work.

> I had the
> President of Ideal Tool make a call on Foster with me. =C2=A0His plan
> was to
> sell one of the company's new abrasive stone type enamel
> removing
> machines. =C2=A0After the kindly chief engineer showed how Foster
> removed/tinned with the solder pot, the man from Ideal told me
> that he
> didn't believe there was much of a market for his machine.

ooops! Hadn't heard that one before!

> > At Southgate Radio, for multiple units, an improvised solder pot > > is
> > made by heating a cleaned-out tuna can full of solder splashes > > over =
a
> > propane torch or stove burner(with appropriate safety
> > precautions).
> > For small jobs, a blob of solder on the 100 watt American
> > Beauty iron does the job.

> Waste not, want not.

That's a key value at Southgate Radio. Also:

Use it up, wear it out
Make it do, or do without

>=C2=A0I think I'd just wait until the XYL isn't home and
> heat the can on a burner of the gas stove.

That's what I described.

> =C2=A0Doesn't it sound like
> something which could go terribly, terribly wrong?

Not with "appropriate safety precautions".

> > Elecraft transceiver kits (except the K3) require that you wind
> > toroids and strip the wire ends. They recommend the solder-blob
> > method, and since the wire is relatively small you don't need a big
> > iron. My military-surplus Weller WCTPK kit does the job very well.
>
> I've often used a razor blade or X-acto knife to get the job done.

Me too, but it depends on whether a tinned wire is wanted.

Now when it comes to terminating a 37 conductor #14 Kerite cable...but that's another story....

73 de Jim, N2EY

```
From 1665091352341396157
X-Google-Thread: fc2a5,22c75f654cc38996
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nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
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NNTP-Posting-Date: Wed, 04 Jun 2008 08:06:41 -0500
Message-ID: <48469361.30200@qrparci.org>
Date: Wed, 04 Jun 2008 09:06:41 -0400
From: NoMoreSpam <Disgustedham@qrparci.org>
User-Agent: Thunderbird 2.0.0.14 (Macintosh/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To: Michael Coslo <mjc5@psu.edu>
Subject: Re: REMOVING ENAMEL COATING
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
     <7aerg5-09m.ln1@radagast.org> <f32ff7a4-40f7-4007-
b071-0c0b2507a5c3@2g2000hsn.googlegroups.com>
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:112
```

Michael Coslo wrote:

>

> I'd rather read that than something about what "The state of California
> knows" you know, those strange postings beside gasoline pumps? This
> product is know to the State of California as a carcinogen" type stuff.
>
> I wonder how many people called up the state of California to talk about
> that?
>
>
>> What does "do-gooder done did too much with all those warnings and
>> attempts to protect us all from everything."
>> really mean? Are there too many warnings on dangerous chemicals?
>
>
> I don't mind the warnings too much as long as they are not stupid
> warnings. What I do mind is when a useful product goes away.
>
>> More important, do we really *know* that Strip-X isn't going to cause
>> anyone harm unless intentionally abused?
>
> Or salted codfish for that matter? I know that sounds a little
> sarcastic, but the point is that there is a statistical correlation
> between large consumption of salted and smoked fish with stomach cancer.
>
>
>
Keep voting Democrat, and you'll insure that Government will protect you...at a price!

From -8820734489263290740
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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From: gwatts <gwatts@frontiernet.net>
User-Agent: Mozilla Thunderbird 1.0.6 (Windows/20050716)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
<7aerg5-09m.ln1@radagast.org> <f32ff7a4-40f7-4007-b071-0c0b2507a5c3@2g2000hsn.googlegroups.com>
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Organization: Frontier
Date: Wed, 04 Jun 2008 09:56:52 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:113

NoMoreSpam wrote:
> Michael Coslo wrote:
>
>>
>> I'd rather read that than something about what "The state of
>> California knows" you know, those strange postings beside gasoline
>> pumps? This product is know to the State of California as a
>> carcinogen" type stuff.
>>
>> I wonder how many people called up the state of California to talk
>> about that?
>>
>>
>>> What does "do-gooder done did too much with all those warnings and
>>> attempts to protect us all from everything."
>>> really mean? Are there too many warnings on dangerous chemicals?
>>
>>
>>
>> I don't mind the warnings too much as long as they are not stupid
>> warnings. What I do mind is when a useful product goes away.
>>
>>> More important, do we really *know* that Strip-X isn't going to cause
>>> anyone harm unless intentionally abused?
>>
>>
>> Or salted codfish for that matter? I know that sounds a little
>> sarcastic, but the point is that there is a statistical correlation
>> between large consumption of salted and smoked fish with stomach cancer.
>>
>>
>>
> Keep voting Democrat, and you'll insure that Government will protect
> you...at a price!

Better than voting Republican where you still pay the price, your
children and grandchildren continue to pay the price, and all the
protections go away under the guise of 'we big, rich business types have
to be able to make a profit!'


From -5724671778360967543
X-Google-Thread: fc2a5,d2c9fa6b35b4269a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
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From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Lf2dnVnJBb0If77VnZ2dnUVZ_hSdnZ2d@velocitywest.net>
<%W4Vj.26$_K1.1@newsfe05.lga>
Subject: Re: Need Connector Information for Icom IC-718 Power Cable
Lines: 14
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X-MSMail-Priority: Normal
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
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NNTP-Posting-Date: Sat, 10 May 2008 06:07:52 MST
Date: Sat, 10 May 2008 09:02:11 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:14
```

"xpyttl" <xpyttl_NOSPAM@earthling.net> wrote in message
news:%W4Vj.26$_K1.1@newsfe05.lga...

> but a better bet is to go to a place like Tower Electronics

I probably should have mentioned that there is nothing special about Tower. They happen to come to all the nearby hamfests, so I've seen their stuff. I'm sure there is some sort of equivalent place everywhere else, just that Tower happens to be prominent in the upper midwest. (And they are usually at Dayton).

..

```
From -5575914536059902284
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news.usenetserver.com!in03.usenetserver.com!news.usenetserver.com!
bigfeed3.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!
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From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
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User-Agent: Icedove 1.5.0.14pre (X11/20071018)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: Beam power tetrode, beam power pentode, or just a pentode?
References: <oe1Vj.17063$2g1.1895@nlpi068.nbdc.sbc.com> <c8eefd51-531a-466d-a469-
b5ffa4dd32eb@i76g2000hsf.googlegroups.com>
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Organization: BellSouth Internet Group
Date: Sat, 10 May 2008 18:59:39 +0000
Xref: g2news1.google.com rec.radio.amateur.boatanchors:24
rec.radio.amateur.homebrew:15

Tim Shoppa wrote:
> On May 9, 3:03 pm, "N9WOS" <Do...@bug.me> wrote:
>> All of them have an electrode structure that upon close inspection that
>> looks like/is a beam power tetrode. But the sales pages, and even the
>> datasheets call it a pentode. The datasheets show it with a suppressor grid,
>> where it actually has beam forming plates. What gives?.
>>
>> You have a few people that have determined what they actually are by direct
>> visual inspection, and actually call them what they are, but that is few and
>> far between.
>>
>> Is it just that the curves are close to a pentode, so the manufacturers are
>> trying to avoid confusion to the average end user?
>>
>> And as far as people calling them beam power pentode, unless they actually
>> have three grids, and beam forming plates, then I don't consider it to be a
>> beam power pentode.
>>
>> Is it just a big international conspiracy to confuse me?
>
> RCA did the right thing: they always called their tubes "beam power
> tubes", completely sidestepping the tetrode vs pentode terminology.
>
> I think RCA was careful to not call them "beam power pentodes" because
> some European company held European patents on power pentodes with
> similar beam-forming plates. I think RCA was trying really really hard
> to not have them identified as pentodes. Licensing and intellectual
> property rights to tubes' innards was something that companies were
> really protective of - look at the wording on the flap of any tube box
> up through the 70's to see some legaleze.
>
```

> Although my gut feeling is that they are actually pentodes (maybe if you don't run the beam/supressor grid out to a pin it doesn't count as an electrode?) because those beam forming plates gotta be a tube element.
>
> The ARRL (almost) always drew beam power tubes like 6146's and 807's as tetrodes and classified them as tetrodes in their tube charts. You will note that 6146's and 807's don't run the beam/suppressor grid out to its own pin but make it share the cathode pin.
>
> Tim.

There are BOTH beam power pentodes and tetrodes.

RCA used to show the beam power tube with the symbol for the beam deflection plates, but later they got lazy and just drew a third grid. If you actually broke the tube open you WOULD see a 'cage' instead of a third grid.

Most beam power tubes used as AF power amps were "Pentodes", assuming you count the beam deflection 'cage' as one of the elements. Such tubes would have 5 elements making them Pentodes. It wouldn't matter if this cage was connected to the cathode or to it's own pin, it's still a pentode.

Other special beam power tubes actually did NOT have a 5th element. They had the turns of the first two grids aligned, and the spacing between the grids and the screen grid and the plate were set to minimize secondary emission. In addition, the plates had curved pockets in them designed to enhance the capture of electrons to prevent any secondary emission from ever reaching the screen grid. Tubes such as the 4-400 and 4cx250 were examples of such beam power tetrodes.

From 5967844308635864554
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Path: g2news1.google.com!postnews.google.com!d77g2000hsb.googlegroups.com!not-for-mail
From: Mike Silva <snarflemike@yahoo.com>
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: Beam power tetrode, beam power pentode, or just a pentode?
Date: Sat, 10 May 2008 20:09:38 -0700 (PDT)
Organization: http://groups.google.com
Lines: 81
Message-ID: <df2cfeaf-2b97-42c5-a351-ff71f8e8e93d@d77g2000hsb.googlegroups.com>
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Xref: g2news1.google.com rec.radio.amateur.boatanchors:27
rec.radio.amateur.homebrew:16

On May 9, 3:03=A0pm, "N9WOS" <Do...@bug.me> wrote:
> A subject that has been getting under my skin recently.
>
> The proper name for specific tubes
>
> It seems that people, even the manufacturers can not figure out exactly wh=
at
> type of tube they own, are selling, or even producing. You have various
> people call the exact same tube all of the above (Beam power tetrode, beam=

> power pentode, or pentode). You have manufacturer data sheets calling it
> something that on actual inspection, it is not.
>
> For example. The tubes..
>
> 6AG5
>
> 6AH6
>
> 6BC6
>
> 6CB6
>
> 6GM6
>
> 6BZ6
>
> ...(on and on)..
>
> Second section of..
>
> 6AM8
>
> 6GH8
>
> 6U8
>
> All of them have an electrode structure that upon close inspection that
> looks like/is a beam power tetrode. But the sales pages, and even the
> datasheets call it a pentode. The datasheets show it with a suppressor gri=
d,
> where it actually has beam forming plates. What gives?.
```

Yeah, I was surprised when I first noticed this. Little TV IF tubes
with beam forming plates! And always drawn as a pentode and called a
pentode. Maybe somebody will make a headphone amp with 6CB6s and call
them beam power tubes. :)

> You have a few people that have determined what they actually are by direc=
t
> visual inspection, and actually call them what they are, but that is few a=
nd
> far between.
>
> Is it just that the curves are close to a pentode, so the manufacturers ar=
e
> trying to avoid confusion to the average end user?

Well to me, a pentode is just a tube with 5 elements. Cathode, plate
and three something-elses. Historically those were three grids, but I
don't know why the 3rd element has to be a grid.

>
> And as far as people calling them beam power pentode, unless they actually=
>
> have three grids, and beam forming plates, then I don't consider it to be =
a
> beam power pentode.

I think the descriptor "beam power" is similar to "sharp cutoff" or
"remote cutoff". A remote cutoff pentode isn't a pentode with an
extra element, but a pentode about which the description gives
additional information. Same with beam power pentode. But "beam
power tetrode" is much more common. So just listen up to the "beam"
word and then ignore the rest.

>
> Is it just a big international conspiracy to confuse me?

Hadn't thought about that before, but I think you're probably
right. :)

From 1832701553648210116
X-Google-Thread: fc8b1,9bc365f89f24162f
X-Google-Thread: fc2a5,9bc365f89f24162f
X-Google-Attributes: gidfc8b1,gidfc2a5,domainid0,public,usenet
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Path: g2news1.google.com!news4.google.com!news1.google.com!newshub.sdsu.edu!
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postmaster.news.prodigy.com!newssvr23.news.prodigy.net.POSTED!35cb456c!not-for-
mail
From: "N9WOS" <Don't@bug.me>
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
References: <oe1Vj.17063$2g1.1895@nlpi068.nbdc.sbc.com> <df2cfeaf-2b97-42c5-a351-

ff71f8e8e93d@d77g2000hsb.googlegroups.com>
Subject: Re: Beam power tetrode, beam power pentode, or just a pentode?
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
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Message-ID: <S5FVj.3280$J16.1048@newssvr23.news.prodigy.net>
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X-Complaints-To: abuse@prodigy.net
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Date: Sun, 11 May 2008 11:25:15 -0500
Xref: g2news1.google.com rec.radio.amateur.boatanchors:29 rec.radio.amateur.homebrew:17

Thanks for everyone's replies.

>Hadn't thought about that before, but I think you're probably
right. :)

As I have heard people say.

"just because someone has an irrational fear that everyone is out to get
him, doesn't mean that everyone isn't out to get him."

From -5355642562595042818
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!34g2000hsh.googlegroups.com!not-for-mail
From: francesco.messineo@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: noise source question
Date: Mon, 12 May 2008 03:16:10 -0700 (PDT)
Organization: http://groups.google.com
Lines: 9

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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1210587371 18216 127.0.0.1 (12 May 2008 10:16:11 GMT)
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NNTP-Posting-Date: Mon, 12 May 2008 10:16:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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     Gecko/20060216 Debian/1.7.12-1.1ubuntu2,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:18
```

Hello,

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junction reverse polarized like a zener) and I was wondering if it's
ok to use the output attenuator as part of the resistor network for
the DC bias of the transistor (or zener). I'd probably look at the
arrl handbook if I had it ;-)
Thanks
Francesco IZ8DWF

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not-for-mail
NNTP-Posting-Date: Mon, 12 May 2008 17:10:08 -0500
Newsgroups: rec.radio.amateur.homebrew
From: gwhite@alum.mit.edu (Doug White)
Subject: Re: noise source question
References: <7f9915ae-cf02-41be-a37f-f81c42625659@34g2000hsh.googlegroups.com>
X-Newsreader: News Xpress 2.01
Date: Mon, 12 May 2008 22:10:09 GMT
Message-ID: <tOadnaFFUcvdXbXVnZ2dnUVZ_gqdnZ2d@rcn.net>
Lines: 20
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:19
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```
Keywords:
In article <7f9915ae-cf02-41be-a37f-f81c42625659@34g2000hsh.googlegroups.com>,
francesco.messineo@gmail.com wrote:
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>ok to use the output attenuator as part of the resistor network for
>the DC bias of the transistor (or zener). I'd probably look at the
>arrl handbook if I had it ;-)

Depending on how you do it, the noise can degrade over time.  You are
better off using a diode.  My recollection is that a true zener (around
3V) works best.  I worked on an HP instrument that was originally
designed with a reverse biased transistor as a noise source.  The noise
spectrum degraded over time and caused a lot of warranty returns.  I
replaced it with a diode, and all was well.  This was 30 years ago, so I
don't remember the details.  This was for a low frequency noise source,
and things may behave differently for an RF source.

Doug White


From 3370655567912233489
X-Google-Thread: fc2a5,272f15eeafb4a53
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
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not-for-mail
Message-ID: <4828DDFE.4050404@NETTALLY.COM>
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: noise source question
References: <7f9915ae-cf02-41be-a37f-f81c42625659@34g2000hsh.googlegroups.com>
In-Reply-To: <7f9915ae-cf02-41be-a37f-f81c42625659@34g2000hsh.googlegroups.com>
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Lines: 25
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Organization: BellSouth Internet Group
Date: Mon, 12 May 2008 20:17:02 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:20

francesco.messineo@gmail.com wrote:
```

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> junction reverse polarized like a zener) and I was wondering if it's
> ok to use the output attenuator as part of the resistor network for
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> arrl handbook if I had it ;-)
> Thanks
> Francesco IZ8DWF

I would think that your biasing of the resistor network would create
some amount of noise which of course would not be attenuated to the same
extent as the semiconductor. But then again it may be negligeable.

Why not build it and try it out?

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

```
From -3596342217809364996
X-Google-Thread: 1109af,3fb550fbabcf49e7,start
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Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
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not-for-mail
Newsgroups:
rec.radio.swap,rec.radio.amateur.misc,sci.electronics.misc,ne.forsale,ne.general,r
ec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.info
Subject: ** FLEA at MIT **     Sunday May 18th   Cambridge MA
Summary: Buy Sell SWAP Ham Radio  Electronics Computers 9AM - 2PM
Expires: 5/22/08
Followup-To: poster
Approved: rec-radio-info@panix.com
Distribution: na
```

Organization: Massachvsetts Institvte of Technology
Keywords: Hamfest Fleamarket SWAPFEST Computers Ham Radio Electronics
From: w1gsl@mit.edu (Steven L. Finberg)
Date: 13 May 2008 07:03:30 GMT
Lines: 131
Message-ID: <48293d42$0$304$b45e6eb0@senator-bedfellow.mit.edu>
NNTP-Posting-Host: MASS-TOOLPIKE.MIT.EDU
X-Trace: 1210662210 senator-bedfellow.mit.edu 304 18.7.18.72
Xref: g2news1.google.com rec.radio.swap:37 rec.radio.amateur.misc:21 sci.electronics.misc:29 ne.forsale:5 ne.general:8 rec.radio.amateur.homebrew:21 rec.radio.amateur.boatanchors:58 rec.radio.info:9

This coming Sunday....
the Season's First.... FLEA at MIT

****
****

Summary: Buy Sell SWAP   Ham Radio   Electronics Computers   9AM - 2PM

*** !!!! In our Traditional GARAGE and the adjacent lot !!!! ****
so come rain or shine or super heat the Flea is on !!!

!! ** More Buyers PARKING is available ** for details see
http://web.mit.edu/w1gsl/Public/flyer

<FF>
********* $1 buyers discount with hardcopy of this notice ********

COMPUTERS - ELECTRONICS - HAM RADIO - COMPUTERS - ELECTRONICS - HAM RADIO

FLEA all SUMMER at MIT
Sunday May 18th 2008
9AM-2PM

Come to the city for a great flea - plenty of free parking.

MIT's electronics and ham radio flea will take place on the third Sunday of each month this summer, April thru October.

There is tailgate space for over 600 sellers and free, off-street parking for >2000 cars!

Buyers admission is $5 (you get $1 off if you're lucky enough to have a copy of our ad) and sellers spaces are $20 for the first and $15 for each additional at the gate.

The flea will be held on Albany between Mass Ave and Main streets in Cambridge; right in the Kendall Square area from 9AM to 2PM, with sellers set-up time starting at 7AM.

SEASON PASS + Advance Seller Discount

A sellers discount season pass is available which offers a 30% discount. By prepaying you get a discount and earlier admission. See the registration form.

*** Attention Sellers ***
Prepaid vendors.. Season Pass or monthly,
will be admitted FIRST.
Separate lines will form prior to gate opening
for prepaid and nonprepaid vendors

!! RAIN or SHINE !! Have no fear of rain, a covered well illuminated tailgate area is available for all sellers (6'8" clearance).

Talk-in: 145.23- (PL 88.5) W1BOS/R and
W1XM/R-449.725/444.725 (PL 114.8/2A).

Sponsors: MIT Electronics Research Society
MIT UHF Repeater Association (W1XM)
MIT Radio Society (W1MX)
Harvard Wireless Club (W1AF)

For more info / advanced reservations 617 253 3776 (M-F 9-5)

********** $1 buyers discount with hard copy of this notice ************

<FF>

Mail the coupon below by the 5th of the April to be a Prepaid Vendor.

FLEA at MIT 2008 Rates

SELLERS

To use your prepaid spaces the named vendor MUST be present.
Rates include one admission per space.

Season Pass	Sellers admission to all seven meets this year $99 First Space $70 Each Additional space Must be received by April 20th.
Advance	$17 First space $12 Additional Spaces Must be received by the 10th of the month.
Gate Admission	$20 First Space $15 Additional Spaces Admission is after the prepaid vendors.

```
Early Bird Buyer -Admission after the prepaid vendor line is admitted. ~ 7:15AM
                ** You may not sell. **
                $15 per person at the gate.
                $70 Season Early Bird Buyer


   cut and return
**************************************************************************
FLEA at MIT   2008       Advance Space Application                  4/08

   ____April    ____May    ____June   ____ July  ____Aug   ___Sept   ____Oct
          @ $17  for the first each month  + $12 each additional
   ____Season Pass @ $99  ____ Additional Season Spaces @ $70 ___EBB @$70

Name    ________________________     Call  __________     $ Included_________

Address ________________________     Phone  __________     Make Check to
                                                         The MIT Radio Society
City  ____________________ State  _______  Zip  _______    PO Box 397082
                                                           Cambridge MA 02139
E-mail  _____________________________________________




*******************************************************************************
Steve Finberg                       W1GSL                          w1gsl@mit.edu
PO Box 82 MIT Br           Cambridge MA  02139-7082                 617 258 3754
*******************************************************************************
```

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From -8122161095930039778
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m45g2000hsb.googlegroups.com!not-for-
mail
From: francesco.messineo@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: noise source question
Date: Tue, 13 May 2008 00:57:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <06de9ca7-6d71-4abc-86b2-19a2ee304315@m45g2000hsb.googlegroups.com>
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1210665446 26403 127.0.0.1 (13 May 2008 07:57:26 GMT)
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Xref: g2news1.google.com rec.radio.amateur.homebrew:22

On 13 Mag, 02:17, RFI-EMI-GUY <Rhyol...@NETTALLY.COM> wrote:
> francesco.messi...@gmail.com wrote:
> > Hello,
>
> > I'm willing to make a noise source from an UHF transistor (B-E
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to be sure about possible implications before beeing happy with a
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From -3799085878267513583
X-Google-Thread: fc2a5,272f15eeafb4a53
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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bignumber.bellsouth.net!news.bellsouth.net!bignews9.bellsouth.net.POSTED!aba369ab!
not-for-mail
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
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MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: noise source question
References: <7f9915ae-cf02-41be-a37f-f81c42625659@34g2000hsh.googlegroups.com>
<4828DDFE.4050404@NETTALLY.COM>
<06de9ca7-6d71-4abc-86b2-19a2ee304315@m45g2000hsb.googlegroups.com>
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X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
okjdhlmeenidhihjdbdpiflmbcekedmfhojhikkbagflhcboepjplagfmmicbgohfgbjfmcjiplkjmhnpd
kkniakbmhaegdabpeclalcloiihiplahkdanodbajneomalemghflmamfpmfdpoeomkodahofdbbfo
NNTP-Posting-Date: Tue, 13 May 2008 12:47:24 EDT
Organization: BellSouth Internet Group
Date: Tue, 13 May 2008 12:49:06 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:23

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>>
>
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> but we are talking about less than 1 mA currents and the noise from
> the source will be by far superior. I was more concerned about adding
> some DC to the output, I might just try building it, but I was trying
> to be sure about possible implications before beeing happy with a
> result :-)
>
> Thanks
> Francesco IZ8DWF

I am not sure why you would want to do this, your parts count would at most be reduced by one resistor, you still need to have a DC blocking capacitor somewhere. Or are you using a bias "T" that is already part of the set up?

--

Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From 7566571328398016127
X-Google-Thread: fc2a5,272f15eeafb4a53
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69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <7f9915ae-cf02-41be-a37f-f81c42625659@34g2000hsh.googlegroups.com>
     <4828DDFE.4050404@NETTALLY.COM>
<06de9ca7-6d71-4abc-86b2-19a2ee304315@m45g2000hsb.googlegroups.com>
<wCjWj.2744$Kk3.2720@bignews9.bellsouth.net>
Subject: Re: noise source question
Date: Tue, 13 May 2008 14:53:22 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Lines: 52
Message-ID: <4829e393$0$7726$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 75.191.181.199
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:24

"RFI-EMI-GUY" <Rhyolite@NETTALLY.COM> wrote in message
news:wCjWj.2744$Kk3.2720@bignews9.bellsouth.net...
> francesco.messineo@gmail.com wrote:
>> On 13 Mag, 02:17, RFI-EMI-GUY <Rhyol...@NETTALLY.COM> wrote:
>>> francesco.messi...@gmail.com wrote:
>>>> Hello,
>>>> I'm willing to make a noise source from an UHF transistor (B-E
>>>> junction reverse polarized like a zener) and I was wondering if it's
>>>> ok to use the output attenuator as part of the resistor network for
>>>> the DC bias of the transistor (or zener). I'd probably look at the
>>>> arrl handbook if I had it ;-)
>>>> Thanks
>>>> Francesco IZ8DWF
>>> I would think that your biasing of the resistor network would create
>>> some amount of noise which of course would not be attenuated to the same

>>> extent as the semiconductor. But then again it may be negligeable.
>>>
>>
>> well, indeed it would raise the termal noise of the resistor network,
>> but we are talking about less than 1 mA currents and the noise from
>> the source will be by far superior. I was more concerned about adding
>> some DC to the output, I might just try building it, but I was trying
>> to be sure about possible implications before beeing happy with a
>> result :-)
>>
>> Thanks
>> Francesco IZ8DWF
>
> I am not sure why you would want to do this, your parts count would at
> most be reduced by one resistor, you still need to have a DC blocking
> capacitor somewhere. Or are you using a bias "T" that is already part of
> the set up?
>
> --
> Joe Leikhim K4SAT
> "The RFI-EMI-GUY"�
>
> "Treason doth never prosper: what's the reason?
> For if it prosper, none dare call it treason."
>
> "Follow The Money" ;-P

I built a noise source several years ago biasing the doide through the
potentiometer I was using for a level control and taking the noise off of
the wiper. The potentiometer was noisier than the diode.
Biased carbon resistors be pretty noisy so I reccomend using metal film
resistors.

Jimmie

```
From -2426215389929702364
X-Google-Thread: fc2a5,2ea1f64afb745635,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 13 May 2008 14:47:33 -0500
From: "Howard W3CQH" <hsgorden@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Quake
Date: Tue, 13 May 2008 15:47:17 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <HfSdnTtLJ_nIbbTVnZ2dnUVZ_hSdnZ2d@comcast.com>
Lines: 60
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NNTP-Posting-Host: 76.100.201.181
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6jQcvvpwU+F!kIK0+rlCNOWsxbrIQJQL/PcAmVbztH4=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:25
```

Just received this through a ARES reflector

=============================

""Strong earthquake hits China, all ham radio operators stand by PLEASE HELP TO SPREAD THE FOLLOWING MESSAGE

Strong earthquake hits China, all ham radio operators stand by A Magnitude 7.8 earthquake hits Sichuan, China on Monday, May 12, 2008 at 06:28:04 UTC. Casualties and loss unknown up to now. According to Chinese Radio Sports Association, 14.270Mhz, 7.050 and 7.060 Mhz are preserved for amateur radio emergency service in the rescue. Please spread this message as far as you can and keep the frequencies clean for emergency use. Thank you.

Yesterday, 05:57 PM
BG8AAS from Chengdu, Sichuan reported that local UHF repeater survived in the disaster. It keeps functioning from the 1st minute and more than 200 local radio hams are now on that repeater. A group of hams from Chengdu has headed for Wenchuan, the center of the quake, trying to setup emergency communication services there.

BA8AB, also from Chengdu, Sichuan, is active on the 40m emergency frequency. Up to now, no further information available from the center zone of the quake. There are a few radio amateurs there, but all of the communications have been cut out, including amateur radio.

Yesterday, 06:58 PM
Update

According to BG8AAS, local UHF repeater in Chengdu keeps busy running after the quake. It helps to direct social vehicles to transport the wounded from Dujiangyan, Beichuan, and other regions. Another UHF repeater also starts its working in Mianyan, supported by generators.
However, they are going to face a shortage of gas.

Damage in Chengdu remains in the lowest level, but the situation is very

very bad in the counties around. A few towns are said to be destroyed completely. More than 7000 died in the town of Beichuan. Casualties in several other towns are still unknown and not counted in the published numbers.

It is a long and sad day.

Today, 08:31 AM
Your attention please! 14.270Mhz is now reserved for ARES in 5.12 earth quake in Sichuan, China. Please help to keep this frequency clear.

A group of radio amateurs is now transmitting from Wenchuan, the center of quake. Its signal is reported to be very weak. They tried to keep communication with BY8AA in Chengdu, seeking for all resources needed. During a contact finished a few minutes ago, they were asking for raincoats, water, tents, and outdoor living facilities.

PLEASE HELP TO FORWARD THIS MESSAGE TO ALL RELEVANT FORUMS, MAILING LISTS, AND NEWS RESOURCES. MEANWHILE, KEEP THE ABOVE FREQUENCY CLEAN FOR EMERGENCY COMMUNICATION.

Michael Chen, BD5RV/4""

```
From -1646388191416914773
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
newsfeed2.dallas1.level3.net!news.level3.com!panix!panix2.panix.com!arthures
From: A <arthures@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Astron power supplies...
Date: Thu, 15 May 2008 17:38:05 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 20
Message-ID: <Pine.NEB.4.64.0805151732540.20677@panix2.panix.com>
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
 <pan.2008.05.05.06.51.07.884804@localhost.localdomain>
 <d52cef37-9511-41a1-8d8c-e4a044f3912d@w4g2000prd.googlegroups.com>
 <pan.2008.05.07.01.21.14.173454@localhost.localdomain>
 <fast-2D6DAD.13294907052008@netnews.worldnet.att.net>
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X-Trace: reader2.panix.com 1210887486 3136 166.84.1.2 (15 May 2008 21:38:06 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 15 May 2008 21:38:06 +0000 (UTC)
In-Reply-To: <fast-2D6DAD.13294907052008@netnews.worldnet.att.net>
Xref: g2news1.google.com rec.radio.amateur.homebrew:26
```

We had a thread recently on Astron power supplies and I thought I'd mention that I have an RS-35A (35 amps intermittent) for VHF brick amplifiers (main use) and I've had it for some 20 years. Recently, the PS has started to "crowbar" off on me (voltage goes to zero) and not even with high currents (maybe around 15 amps or so) and have to shut it off, wait a few seconds, and turn it back on.

I also had another different regulated fairly high current DC PS go bad long ago, in a similar way.

I'm wondering how many others of you have seen defective operation, sooner or later, or other deterioration in your high current regulated DC supplies?

And, if the overvoltage crowbar craps out, it blows up your rig? I'm thinking of going exclusively back to deep cycle marine batteries, again.

From 8060421517589555O8
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe15.lga.POSTED!53ab2750!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
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e4a044f3912d@w4g2000prd.googlegroups.com>
<pan.2008.05.07.01.21.14.173454@localhost.localdomain>
<fast-2D6DAD.13294907052008@netnews.worldnet.att.net>
<Pine.NEB.4.64.0805151732540.20677@panix2.panix.com>
Subject: Re: Astron power supplies...
Lines: 30
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <BY3Xj.117027$Ft5.16628@newsfe15.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe15.lga 1210895265 72.209.25.33 (Thu, 15 May 2008 16:47:45 MST)
NNTP-Posting-Date: Thu, 15 May 2008 16:47:45 MST
Organization: Cox

Date: Thu, 15 May 2008 19:47:40 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:27

"A" <arthures@panix.com> wrote in message
news:Pine.NEB.4.64.0805151732540.20677@panix2.panix.com...
>
> We had a thread recently on Astron power supplies and I thought I'd
> mention that I have an RS-35A (35 amps intermittent) for VHF brick
> amplifiers (main use) and I've had it for some 20 years. Recently, the PS
> has started to "crowbar" off on me (voltage goes to zero) and not even
> with high currents (maybe around 15 amps or so) and have to shut it off,
> wait a few seconds, and turn it back on.
>
> I also had another different regulated fairly high current DC PS go bad
> long ago, in a similar way.
>
> I'm wondering how many others of you have seen defective operation, sooner
> or later, or other deterioration in your high current regulated DC
> supplies?
>
> And, if the overvoltage crowbar craps out, it blows up your rig? I'm
> thinking of going exclusively back to deep cycle marine batteries, again.
>

Sometimes adding a .1 or .22 uF cap on the gate of the SCR to ground
will stop nuisance crowbars. Some Astrons are more sensitive than others
in this regard. We had a similar problem with a few 50 amp Astrons in
repeater service.

Pete

From 8048715779838112702
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 16 May 2008 05:39:35 -0500
Date: Fri, 16 May 2008 11:39:04 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Astron power supplies...
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
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e4a044f3912d@w4g2000prd.googlegroups.com>

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Content-Transfer-Encoding: 7bit
Message-ID: <seCdncWUuMX6-bDVnZ2dneKdnZydnZ2d@pipex.net>
Lines: 27
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NNTP-Posting-Host: 85.210.65.25
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G8kECY97fWodUUilhGDuQFP5
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com rec.radio.amateur.homebrew:28
```

> I'm wondering how many others of you have seen defective operation,
> sooner or later, or other deterioration in your high current regulated
> DC supplies?
>
> And, if the overvoltage crowbar craps out, it blows up your rig? I'm
> thinking of going exclusively back to deep cycle marine batteries, again.

====================================
The crowbar is there to NOT blow up your equipment.

However operation of a crowbar should blow a fuse fitted 'upstream' of the pass transistors.   As already explained earlier in this thread ,the crowbar should also be fitted 'upstream the pass transistors (but 'downstream' the fuse , while sensing the output voltage .

If the Astron voltage regulator would be suspect I would recommend a very simple circuit with a 7812 voltage regulator and a PNP transistor ,its output 'steering' the pass transistors .

Ref : Experimental Methods in RF Design , by W7ZOI-KK7B- W7PUA
page 1.15

Instead of the 3 legged 7812 you can also use the similar LM317 enabling output voltage adjustment
After all this is a homebrew NG

Frank   GM0CSZ / KN6WH

```
From -3097997462520794101
X-Google-Thread: fc2a5,77ba27d5105a7115
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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From: You <you@shadow.orgs>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Astron power supplies...
Organization: Shadow.orgs
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
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<Pine.NEB.4.64.0805151732540.20677@panix2.panix.com> <seCdncWUuMX6-bDVnZ2dneKdnZydnZ2d@pipex.net>
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Message-ID: <you-647FF8.13080416052008@netnews.worldnet.att.net>
Lines: 27
Date: Fri, 16 May 2008 21:08:09 GMT
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X-Trace: bgtnsc05-news.ops.worldnet.att.net 1210972089 12.12.208.95 (Fri, 16 May 2008 21:08:09 GMT)
NNTP-Posting-Date: Fri, 16 May 2008 21:08:09 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:29

In article <seCdncWUuMX6-bDVnZ2dneKdnZydnZ2d@pipex.net>,
Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote:

> The crowbar is there to NOT blow up your equipment.
>
> However operation of a crowbar should blow a fuse fitted 'upstream' of
> the pass transistors.   As already explained earlier in this thread ,the
> crowbar should also be fitted 'upstream the pass transistors (but
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>
> If the Astron voltage regulator would be suspect I would recommend a
> very simple circuit with a 7812 voltage regulator and a PNP transistor
> ,its output 'steering' the pass transistors .
>
> Ref : Experimental Methods in RF Design , by W7ZOI-KK7B- W7PUA
> page 1.15
>
>
> Instead of the 3 legged 7812 you can also use the similar LM317 enabling
>   output voltage adjustment
> After all this is a homebrew NG

and if your really smart, you will dump the fuse, and replace it with
a Resettable Circuit Breaker, because Murphy's Law states the Crowbar
will do it's thing, ALWAYS at the worst possible moment, and the

appropriate replacement fuse will be a 5 miles drive away, at the closest. You mileage may vary.....

From 6444180142727725786
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!69.28.186.77.MISMATCH!hwmpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe22.lga.POSTED!53ab2750!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <i8vTj.791$b%1.295@trndny04> <lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com> <pan.2008.05.05.06.51.07.884804@localhost.localdomain> <d52cef37-9511-41a1-8d8c-e4a044f3912d@w4g2000prd.googlegroups.com> <pan.2008.05.07.01.21.14.173454@localhost.localdomain> <fast-2D6DAD.13294907052008@netnews.worldnet.att.net> <Pine.NEB.4.64.0805151732540.20677@panix2.panix.com> <seCdncWUuMX6-bDVnZ2dneKdnZydnZ2d@pipex.net> <you-647FF8.13080416052008@netnews.worldnet.att.net>
Subject: Re: Astron power supplies...
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <vdoXj.86631$y05.44183@newsfe22.lga>
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X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe22.lga 1210978267 72.209.25.33 (Fri, 16 May 2008 15:51:07 MST)
NNTP-Posting-Date: Fri, 16 May 2008 15:51:07 MST
Organization: Cox
Date: Fri, 16 May 2008 18:50:59 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:30

Unless there are other major failures, the crowbar simply puts the Astron supply into current limiting. I've had 50-amp supplies running in current limiting for days because of noise-induced SCR firing.

If the supply crowbars because a pass transistor shorted, then the crowbar location becomes a rather mute matter; and involves a bit more than fuse changing.

Pete

From -482036053572381553
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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From: A <arthures@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Astron power supplies...
Date: Fri, 16 May 2008 20:48:17 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 49
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References: <i8vTj.791$b%1.295@trndny04>
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<pan.2008.05.05.06.51.07.884804@localhost.localdomain>
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<Pine.NEB.4.64.0805151732540.20677@panix2.panix.com>
<seCdncWUuMX6-bDVnZ2dneKdnZydnZ2d@pipex.net>
<you-647FF8.13080416052008@netnews.worldnet.att.net>
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NNTP-Posting-Date: Sat, 17 May 2008 00:48:18 +0000 (UTC)
In-Reply-To: <you-647FF8.13080416052008@netnews.worldnet.att.net>
Xref: g2news1.google.com rec.radio.amateur.homebrew:31

On Fri, 16 May 2008, You wrote:

> In article <seCdncWUuMX6-bDVnZ2dneKdnZydnZ2d@pipex.net>,
> Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote:
>
>> The crowbar is there to NOT blow up your equipment.
>>
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>> the pass transistors.   As already explained earlier in this thread ,the
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>> 'downstream' the fuse , while sensing the output voltage .
>>
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>> ,its output 'steering' the pass transistors .
>>
>> Ref : Experimental Methods in RF Design , by W7ZOI-KK7B- W7PUA
>> page 1.15

```
>>
>>
>> Instead of the 3 legged 7812 you can also use the similar LM317 enabling
>>    output voltage adjustment
>> After all this is a homebrew NG
>
> and if your really smart, you will dump the fuse, and replace it with
> a Resettable Circuit Breaker, because Murphy's Law states the Crowbar
> will do it's thing, ALWAYS at the worst possible moment, and the
> appropriate replacement fuse will be a 5 miles drive away, at the
> closest. You mileage may vary.....
>
```

Just to add, I've had a lot of problems with high amperage fuses, too, in brick amplifiers and power supplies and VHF rigs with those "sexy" in-line fuse holders. Seems like the connections become corroded, resistance goes up enough that the current induces drop voltage high enough to do significant heating...etc... Sometimes I've removed those fuses completely, even in one brick amplifier (25-30 amps for a 3AG fuse!!) just soldered a jumper wire across the &%$& fuse holder. Yeah, I know, bad idea. But, all my problems went away.

Also, I had circuit breakers go bad, too. Brand new ones. Expensive ones.

KIS = keep it simple.

```
From -2274487821145642153
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.194.249.MISMATCH!transit3.readnews.com!news-out.readnews.com!news-
xxxfer.readnews.com!panix!panix2.panix.com!arthures
From: A <arthures@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Astron power supplies...
Date: Fri, 16 May 2008 20:52:50 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 28
Message-ID: <Pine.NEB.4.64.0805162049100.14434@panix2.panix.com>
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
 <pan.2008.05.05.06.51.07.884804@localhost.localdomain>
 <d52cef37-9511-41a1-8d8c-e4a044f3912d@w4g2000prd.googlegroups.com>
 <pan.2008.05.07.01.21.14.173454@localhost.localdomain>
 <fast-2D6DAD.13294907052008@netnews.worldnet.att.net>
 <Pine.NEB.4.64.0805151732540.20677@panix2.panix.com>
```

<seCdncWUuMX6-bDVnZ2dneKdnZydnZ2d@pipex.net>
<you-647FF8.13080416052008@netnews.worldnet.att.net>
<vdoXj.86631$y05.44183@newsfe22.lga>
NNTP-Posting-Host: panix2.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1210985571 8702 166.84.1.2 (17 May 2008 00:52:51 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 17 May 2008 00:52:51 +0000 (UTC)
In-Reply-To: <vdoXj.86631$y05.44183@newsfe22.lga>
Xref: g2news1.google.com rec.radio.amateur.homebrew:32

On Fri, 16 May 2008, Tio Pedro wrote:

> Unless there are other major failures, the crowbar simply puts the Astron supply into current limiting. I've had 50-amp supplies running in current limiting for days because of noise-induced SCR firing.
>
> If the supply crowbars because a pass transistor shorted, then the crowbar location becomes a rather mute matter; and involves a bit more than fuse changing.
>
> Pete

Well, I've had a number of occurrences where, PTT on 2 M FM rig at current well below current ratings and the output voltage goes to 0.5 or less and had to off-on cycle the main switch. Makes me mad. Gotta get back to that deep cycle 12 v battery.... They always go bad very very very slowly. Great when there is a power failure, too! ;-)

Thanks to the rest of you guys that made comments, too.

From 1979515222958201271
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Astron power supplies...
Date: 17 May 2008 01:37:05 GMT
Lines: 36

Message-ID: <slrng2sdm1.18qh.bit-bucket@shell.config.com>
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
<pan.2008.05.05.06.51.07.884804@localhost.localdomain> <d52cef37-9511-41a1-8d8c-e4a044f3912d@w4g2000prd.googlegroups.com>
<pan.2008.05.07.01.21.14.173454@localhost.localdomain>
<fast-2D6DAD.13294907052008@netnews.worldnet.att.net>
<Pine.NEB.4.64.0805151732540.20677@panix2.panix.com> <seCdncWUuMX6-bDVnZ2dneKdnZydnZ2d@pipex.net>
<you-647FF8.13080416052008@netnews.worldnet.att.net>
<Pine.NEB.4.64.0805162043080.14434@panix2.panix.com>
Reply-To: If you must, <Reply_to@my.sig.adr>
X-Trace: individual.net Brki7n8PhMp1L6en5f0PIQWLt0gQjVHDwrJRNrhJzEzLv2CLQ4
Cancel-Lock: sha1:9upw0OcM/q4bfeWMp/KGNJZKvHE=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:33

On Fri, 16 May 2008 20:48:17 -0400, A wrote:

> Just to add, I've had a lot of problems with high amperage fuses, too, in brick amplifiers and power supplies and VHF rigs with those "sexy" in-line fuse holders. Seems like the connections become corroded, resistance goes up enough that the current induces drop voltage high enough to do significant heating...etc... Sometimes I've removed those fuses completely, even in one brick amplifier (25-30 amps for a 3AG fuse!!) just soldered a jumper wire across the &%$& fuse holder. Yeah, I know, bad idea. But, all my problems went away.

If you are referring to those cheap, butt-contact, twist-and-lock cylindrical fuse holders, I'll agree! They are problematic in many instances, but especially so in high current situations.

I had no end of problems with the from-the-factory in-line fuse holder with my IC-706. The IC-706 is a poor enough performer at voltages under about 12.599999VDC, and the voltage drop across the fuse holder was often enough to drop the volts into the rig even lower than that.

(Don't even get me started about the use of a butt-contact cigarette lighter "power plug".)

I now replace that style of fuse/fuse holder with the automotive, "horse-shoe" shaped style. (I'm sure there must be a more 'formal' name for them.) You can even get them with weather proof caps for under-the-hood applications.

And, for mobile operations, you can find replacement fuses up and down the hiways and byways A WHOLE LOT EASIER than you can find the old cylindrical fuses.

Jonesy

```
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    *** Killfiling google posts: <http://jonz.net/ng.htm>
```

```
From 4731325634773349767
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04a.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews2.bellsouth.net.POSTED!8f6bddba!not-for-mail
From: "K4ERG" <k4erg@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
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e4a044f3912d@w4g2000prd.googlegroups.com>
<pan.2008.05.07.01.21.14.173454@localhost.localdomain>
<fast-2D6DAD.13294907052008@netnews.worldnet.att.net>
<Pine.NEB.4.64.0805151732540.20677@panix2.panix.com> <seCdncWUuMX6-
bDVnZ2dneKdnZydnZ2d@pipex.net>
<you-647FF8.13080416052008@netnews.worldnet.att.net>
<vdoXj.86631$y05.44183@newsfe22.lga>
<Pine.NEB.4.64.0805162049100.14434@panix2.panix.com>
Subject: Re: Astron power supplies...
Lines: 34
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <EguXj.21524$C8.10688@bignews2.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcbohjbbkjkigfibefmefbikicnheilffcplnl
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NNTP-Posting-Date: Sat, 17 May 2008 01:44:04 EDT
Organization: BellSouth Internet Group
Date: Sat, 17 May 2008 00:45:30 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:34


"A" <arthures@panix.com> wrote in message
news:Pine.NEB.4.64.0805162049100.14434@panix2.panix.com...
>
>
> On Fri, 16 May 2008, Tio Pedro wrote:
>
>> Unless there are other major failures, the crowbar simply
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>> because of noise-induced SCR firing.
```

>>
>> If the supply crowbars because a pass transistor shorted,
>> then the crowbar location becomes a rather mute matter;
>> and involves a bit more than fuse changing.
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>> Pete
>>
>>
>>
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> Well, I've had a number of occurrences where, PTT on 2 M FM rig at current
> well below current ratings and the output voltage goes to 0.5 or less and
> had to off-on cycle the main switch. Makes me mad. Gotta get back to that
> deep cycle 12 v battery.... They always go bad very very very slowly.
> Great when there is a power failure, too! ;-)
>
> Thanks to the rest of you guys that made comments, too.

You have stray RF in the shack. Check for intermittent connections to your
antenna. Most likely a bad shield connection inside one of the PL259
commuters or a bad ground connection.

From -2444050571317120490
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews2.bellsouth.net.POSTED!8f6bddba!not-for-mail
From: "K4ERG" <k4erg@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
<pan.2008.05.05.06.51.07.884804@localhost.localdomain> <d52cef37-9511-41a1-8d8c-
e4a044f3912d@w4g2000prd.googlegroups.com>
<pan.2008.05.07.01.21.14.173454@localhost.localdomain>
<fast-2D6DAD.13294907052008@netnews.worldnet.att.net>
<Pine.NEB.4.64.0805151732540.20677@panix2.panix.com> <seCdncWUuMX6-
bDVnZ2dneKdnZydnZ2d@pipex.net>
<you-647FF8.13080416052008@netnews.worldnet.att.net>
<vdoXj.86631$y05.44183@newsfe22.lga>
<Pine.NEB.4.64.0805162049100.14434@panix2.panix.com>
<EguXj.21524$C8.10688@bignews2.bellsouth.net>
Subject: Re: Astron power supplies...
Lines: 39
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198

```
X-RFC2646: Format=Flowed; Response
Message-ID: <7muXj.21527$C8.2030@bignews2.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcbopjdofbdkcghhofkmojcogabekbdolcnknl
jmbcjppjiifhdbncnohkaabhndkoeflfaadapnafnjdhgddhcickmjlofknmekbcjgplmpnjnnapal
NNTP-Posting-Date: Sat, 17 May 2008 01:49:55 EDT
Organization: BellSouth Internet Group
Date: Sat, 17 May 2008 00:51:21 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:35
X-Original-Bytes: 3000


"K4ERG" <k4erg@arrl.net> wrote in message
news:EguXj.21524$C8.10688@bignews2.bellsouth.net...
>
> "A" <arthures@panix.com> wrote in message
> news:Pine.NEB.4.64.0805162049100.14434@panix2.panix.com...
>>
>>
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  You have stray RF in the shack. Check for intermittent connections to your
  antenna. Most likely a bad shield connection inside one of the PL259
  connectors or a bad ground connection.

Stupid spell checker!
```

From -4580733592526288533
X-Google-Thread: f55d8,88cfbeaf7957395,start
X-Google-Thread: fc2a5,88cfbeaf7957395,start
X-Google-Attributes: gidf55d8,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.telenor.com!
news.telenor.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 May 2008 05:07:30 -0500
Date: Mon, 19 May 2008 12:07:29 +0200
From: =?ISO-8859-10?Q?H=E5ken_Hveem?= <krbjhvee-antispam@online.no>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.13) Gecko/20080313
SeaMonkey/1.1.9 (Ubuntu-1.1.9+nobinonly-0ubuntu1)
MIME-Version: 1.0
Newsgroups: alt.beer.home-brewing,rec.radio.amateur.homebrew
Subject: tubular immersion element
Content-Type: text/plain; charset=ISO-8859-10; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <vOWdnfsidbL_zKzV4p2dnAA@telenor.com>
Lines: 7
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-NXk9E/GbVYX+ht1BdgGy+AYQ+WnrlkuyvC/WvoLXdHoeLRB1TkbZ4gZaqOYA33nZhF+V/
+8rqKVHswz!KNJtf57S06luwth1BbFy/bg6ywzWegUY9pyTcz3D20nh9grRFPODFiwcGW/
2u5QioZHJkwVS4JSF!6Q==
X-Complaints-To: news-abuse@telenor.net
X-DMCA-Complaints-To: news-abuse@telenor.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com alt.beer.home-brewing:13 rec.radio.amateur.homebrew:36

Does anyone know where I can obtain a 240 VAC, 3000-4000 W low watt
density (20wcm2) tubular immersion element made of 304 or 316 stainless
steel or inconel. The maximum outer diameter is 18 inches.

http://wantitnow.ebay.com/tubular-Heater-element_W0QQadidZ330227418862

krbjhvee at online.no

From 9134163947736243350
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix1.panix.com!arthures
From: A <arthures@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Astron power supplies...
Date: Mon, 19 May 2008 07:39:09 -0400
Organization: PANIX Public Access Internet and UNIX, NYC

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Lines: 44
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 <pan.2008.05.07.01.21.14.173454@localhost.localdomain>
 <fast-2D6DAD.13294907052008@netnews.worldnet.att.net>
 <Pine.NEB.4.64.0805151732540.20677@panix2.panix.com>
 <seCdncWUuMX6-bDVnZ2dneKdnZydnZ2d@pipex.net>
<you-647FF8.13080416052008@netnews.worldnet.att.net>
 <vdoXj.86631$y05.44183@newsfe22.lga>
<Pine.NEB.4.64.0805162049100.14434@panix2.panix.com>
 <EguXj.21524$C8.10688@bignews2.bellsouth.net>
NNTP-Posting-Host: panix1.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1211197151 23101 166.84.1.1 (19 May 2008 11:39:11 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 19 May 2008 11:39:11 +0000 (UTC)
In-Reply-To: <EguXj.21524$C8.10688@bignews2.bellsouth.net>
Xref: g2news1.google.com rec.radio.amateur.homebrew:37



On Sat, 17 May 2008, K4ERG wrote:

>
> "A" <arthures@panix.com> wrote in message
> news:Pine.NEB.4.64.0805162049100.14434@panix2.panix.com...
>>
>>
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>> Great when there is a power failure, too!  ;-)
```

```
>>
>> Thanks to the rest of you guys that made comments, too.
>
> You have stray RF in the shack.

Not likely if you've been running the gear for years and didn't touch
anything.  see my response to your second post.

  Check for intermittent connections to your
> antenna. Most likely a bad shield connection inside one of the PL259
> commuters or a bad ground connection.
>
>
>



From -6354562007206972600
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix1.panix.com!arthures
From: A <arthures@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Astron power supplies...
Date: Mon, 19 May 2008 07:40:43 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 52
Message-ID: <Pine.NEB.4.64.0805190739210.22787@panix1.panix.com>
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
 <pan.2008.05.05.06.51.07.884804@localhost.localdomain>
 <d52cef37-9511-41a1-8d8c-e4a044f3912d@w4g2000prd.googlegroups.com>
 <pan.2008.05.07.01.21.14.173454@localhost.localdomain>
 <fast-2D6DAD.13294907052008@netnews.worldnet.att.net>
 <Pine.NEB.4.64.0805151732540.20677@panix2.panix.com>
 <seCdncWUuMX6-bDVnZ2dneKdnZydnZ2d@pipex.net>
<you-647FF8.13080416052008@netnews.worldnet.att.net>
 <vdoXj.86631$y05.44183@newsfe22.lga>
<Pine.NEB.4.64.0805162049100.14434@panix2.panix.com>
 <EguXj.21524$C8.10688@bignews2.bellsouth.net>
<7muXj.21527$C8.2030@bignews2.bellsouth.net>
NNTP-Posting-Host: panix1.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1211197244 23965 166.84.1.1 (19 May 2008 11:40:44 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 19 May 2008 11:40:44 +0000 (UTC)
In-Reply-To: <7muXj.21527$C8.2030@bignews2.bellsouth.net>
Xref: g2news1.google.com rec.radio.amateur.homebrew:38
```

On Sat, 17 May 2008, K4ERG wrote:

>
> "K4ERG" <k4erg@arrl.net> wrote in message
> news:EguXj.21524$C8.10688@bignews2.bellsouth.net...
>>
>> "A" <arthures@panix.com> wrote in message
>> news:Pine.NEB.4.64.0805162049100.14434@panix2.panix.com...
>>>
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>>>> because of noise-induced SCR firing.
>>>>
>>>> If the supply crowbars because a pass transistor shorted,
>>>> then the crowbar location becomes a rather mute matter;
>>>> and involves a bit more than fuse changing.
>>>>
>>>> Pete
>>>>
>>>>
>>>>
>>>
>>> Well, I've had a number of occurrences where, PTT on 2 M FM rig at
>>> current well below current ratings and the output voltage goes to 0.5 or
>>> less and had to off-on cycle the main switch. Makes me mad. Gotta get
>>> back to that deep cycle 12 v battery.... They always go bad very very
>>> very slowly. Great when there is a power failure, too! ;-)
>>>
>>> Thanks to the rest of you guys that made comments, too.
>
> You have stray RF in the shack. Check for intermittent connections to your
> antenna. Most likely a bad shield connection inside one of the PL259
> connectors or a bad ground connection.
>
> Stupid spell checker!
>

Not my idea but it sounded good when I heard it: "Life's too short for
spell checkers"

Ham radio advertisement many years ago: "Life's too short for QRP" and it
was for a big amplifier.

;-)

>

From -8665493396471282891

```
X-Google-Thread: fc2a5,d02ade89425fba4b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 May 2008 21:56:38 -0500
From: "Tom C." <tecoates@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Fqadnefe5YmJo4fVnZ2dnUVZ_jSdnZ2d@comcast.com>
Subject: Re: looking for construction article
Date: Mon, 19 May 2008 22:56:38 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <LuadnbfFU9F7oK_VnZ2dnUVZ_rninZ2d@comcast.com>
Lines: 31
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 68.55.114.148
X-Trace: sv3-FRa3+d7/
VSCXDTwVObzDTwCUhc9isOYhtuSfX14XmNd4k1l5nU9H1ZZsXsO+DD6SpjKHib4lwHvGcy0!
Dmbek3LHuwKu4oalFOBvRok5ruQPLlV7Ymaq7r0vuFGG7BWZtfDiwdoqooBA0690f5iF0REHaV8v!
VAvn5195ui/MAfhIeoxxRO5BDSindg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:39
```

Something like that was offered as a product on the back pages of computer magazines several years ago.

It would be easy to make, if you could tolerate a really large wall wart.

Tom

"Howard W3CQH" <hsgorden@comcast.net> wrote in message
news:Fqadnefe5YmJo4fVnZ2dnUVZ_jSdnZ2d@comcast.com...

> Looking for some information -
>
> A while back - someone put together an article - whereas they made single
> board computer in a keybd - with sound card & either usb or serial ports
and
> port for external Hard drive & screen.. and it ran on XP..
>
> I want to use this on HF/VHF portable operation!
>
> Due to a system crash a bit ago I seemed to have misplaced the
construction

> article..
>
> Anybody happen to have a copy?
>
> 73's
>
>
>

```
From -9222231828244233397
X-Google-Thread: fc2a5,67e122ea93ba96e9,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.germany.com!aioe.org!not-for-mail
From: Alan Peake <adpeake@nosspam.activ8.net.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Multiplier chains
Date: Wed, 21 May 2008 17:00:40 +1000
Organization: none
Lines: 18
Message-ID: <4833C898.2090302@nosspam.activ8.net.au>
Reply-To: adpeake@nosspam.activ8.net.au
NNTP-Posting-Host: FIbVCnsNftFw+PGdDzm+Rg.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Accept-Language: en-us, en
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.0.2) Gecko/
20021120 Netscape/7.01
Xref: g2news1.google.com rec.radio.amateur.homebrew:40
```

Hello all,

I am trying to muliply a 72MHz crystal oscillator to 1296 MHz. My first approach was to just make a series of X2 or X3 transistor mulipliers to get the require X18 multiplication fact. However, I have found two pieces of equipment in the junk box which just use diode multipliers. One is an old Electrophone UHF CB radio which multiplies the crystal oscillator by 17 (I think, from memory)then uses helical resonators to filter the desired harmonic. The same approach is used in an old King aircraft transponder where the 138 MHz crystal is multiplied to 960 MHz with just a diode and uses the first two stages of an interdigital mixer to get rid of unwanted harmonics.

So, the question is, which is the better approach? I just want a reasonably clean signal source to test a 1296 MHz down-converter.

The diode approach seems simpler but is it likely to contain more spurious signals than a transistor multiplier chain?

Alan
VK2ADB

From -1912792718926785560
X-Google-Thread: fc2a5,67e122ea93ba96e9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!news.kjsl.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Multiplier chains
Date: Wed, 21 May 2008 11:29:25 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 47
Sender: et472@72.0.192.107
Message-ID: <Pine.LNX.4.64.0805211121500.11429@darkstar.example.org>
References: <4833C898.2090302@nosspam.activ8.net.au>
NNTP-Posting-Host: 72.0.192.107
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1211383992 4078 72.0.192.107 (21 May 2008 15:33:12 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 21 May 2008 15:33:12 GMT
In-Reply-To: <4833C898.2090302@nosspam.activ8.net.au>
Xref: g2news1.google.com rec.radio.amateur.homebrew:41

On Wed, 21 May 2008, Alan Peake wrote:

> Hello all,
>   I am trying to muliply a 72MHz crystal oscillator to 1296 MHz. My first
> approach was to just make a series of X2 or X3 transistor mulipliers to get
> the require X18 multiplication fact. However, I have found two pieces of
> equipment in the junk box which just use diode multipliers. One is an old
> Electrophone UHF CB radio which multiplies the crystal oscillator by 17 (I
> think, from memory)then uses helical resonators to filter the desired
> harmonic. The same approach is used in an old King aircraft transponder where
> the 138 MHz crystal is multiplied to 960 MHz with just a diode and uses the
> first two stages of an interdigital mixer to get rid of unwanted harmonics.
> So, the question is, which is the better approach? I just want a reasonably
> clean signal source to test a 1296 MHz down-converter.
> The diode approach seems simpler but is it likely to contain more spurious
> signals than a transistor multiplier chain?
> Alan
> VK2ADB
>
>

I don't know, and one thing to remember is that what was done years ago
may no longer be the solution because other things have come along.

A single stage of multiplication is of course simplest. But, if you
do it in one step, the signal may be so weak that you need stages of
amplification at the ultimate frequency. Once upon a time, frequency
limits may have made that unfeasible.

Also, if you have one stage that basically generates harmonics, and then you expect to pick off the desired frequency, that filtering may need to be much better than multiple stages. If you start with a low enough crystal frequency, the next harmonic may be too close and some of it will get through the filter on the ultimate frequency. If you have a string of multipliers, each does filtering so the next stage only has to deal with filtering out a relatively high frequency.

Note that your two examples aren't comparable. The first example you say multiplies by 17, while the second only multiplies by 6. Even in the old days, it wasn't uncommon to see a jump like 6, but something like 17 was less common.

The real trick seems to be to start with as high a frequency as possible. Then the multiplication needed is limited, and it's far easier to filter out harmonics from a higher frequency crystal than a lower one.

Michael VE2BVW

From 8811855047671372777
X-Google-Thread: fc2a5,67e122ea93ba96e9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Multiplier chains
Date: 21 May 2008 16:57:26 GMT
Lines: 24
Message-ID: <slrng38l3m.19e4.bit-bucket@shell.config.com>
References: <4833C898.2090302@nosspam.activ8.net.au>
Reply-To: If you must, <Reply_to@my.sig.adr>
X-Trace: individual.net beIZkkoKY8y61tipeGleww1kqRwZvVbxHIpbVcefKeu+Biy/pt
Cancel-Lock: sha1:MGbf3y5lS5Iy0OHHu7GwDleJ7OE=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:42

On Wed, 21 May 2008 17:00:40 +1000, Alan Peake wrote:

> Hello all,
> I am trying to muliply a 72MHz crystal oscillator to 1296 MHz. My first approach was to just make a series of X2 or X3 transistor mulipliers to get the require X18 multiplication fact. However, I have found two pieces of equipment in the junk box which just use diode multipliers. One is an old Electrophone UHF CB radio which multiplies the crystal oscillator by 17 (I think, from memory)then uses helical resonators to filter the desired harmonic. The same approach is used in an old King aircraft transponder where the 138 MHz crystal is multiplied to 960 MHz with just a diode and uses the first two stages of an interdigital mixer to get rid of unwanted harmonics.

> So, the question is, which is the better approach?

Are you building tens of thousands like Electrophone and King did?
There was more than 'good' engineering involved with those boxes.
The bean counters were all over it, too -- I'm sure.

Jonesy
--
```
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    *** Killfiling google posts: <http://jonz.net/ng.htm>
```

From 294515076638536190
X-Google-Thread: fc2a5,67e122ea93ba96e9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.karotte.org!
news2.arglkargh.de!feeder.erje.net!feeder2.news.saunalahti.fi!
reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Multiplier chains
Message-ID: <far8341hd3kbq7iemv503crg10v6s6eiug@4ax.com>
References: <4833C898.2090302@nosspam.activ8.net.au>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 27
Date: Wed, 21 May 2008 21:57:57 +0300
NNTP-Posting-Host: 85.77.244.127
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1211396272 85.77.244.127 (Wed, 21 May 2008
21:57:52 EEST)
NNTP-Posting-Date: Wed, 21 May 2008 21:57:52 EEST
Organization: Saunalahti Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:43

On Wed, 21 May 2008 17:00:40 +1000, Alan Peake
<adpeake@nosspam.activ8.net.au> wrote:

>However, I have
>found two pieces of equipment in the junk box which just use diode
>multipliers. One is an old Electrophone UHF CB radio which multiplies
>the crystal oscillator by 17 (I think, from memory)then uses helical
>resonators to filter the desired harmonic.

Sounds like a step recovery diode (SRD) multiplier, which generates a
very broad spectrum. In extreme multiplication situations a tunable

harmonic analyser could be used to select out a single harmonic from the broad SRD spectrum (mix down with a VFO, filter with a crystal filter with bandwidth comparable to the fundamental and mix up the filtered harmonic up to the original frequency using the _same_ VFO, effectively canceling out any VFO drift).

However, since there have been prescalers available for quite a while for satellite-TV indoor units, which are capable of at least 2 GHz, why not use a PLL. Put a VCO at 1296 MHz, use a divide it by 64 using the prescaler and phase lock it to a 20.25 MHz crystal. With such high reference frequency, the loop filter can be quite broad, greatly attenuating the VCO phase noise.

Paul OH3LWR

From 1800995723941210579
X-Google-Thread: fc2a5,67e122ea93ba96e9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny06.POSTED!10db65f4!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Multiplier chains
From: "Dr. Grok" <DRGrok@munged.net>
References: <4833C898.2090302@nosspam.activ8.net.au>
Organization: Your Company
User-Agent: Xnews/5.04.25
Lines: 30
Message-ID: <Am2Zj.2292$ju1.2251@trndny06>
Date: Wed, 21 May 2008 23:37:04 GMT
NNTP-Posting-Host: 72.93.84.68
X-Complaints-To: abuse@verizon.net
X-Trace: trndny06 1211413024 72.93.84.68 (Wed, 21 May 2008 19:37:04 EDT)
NNTP-Posting-Date: Wed, 21 May 2008 19:37:04 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:44
X-Original-Bytes: 1947

You could consider another approach -- phase locking a 1296 MHz oscillator to your 72 MHz xtal.

Dr. G.

Alan Peake <adpeake@nosspam.activ8.net.au> wrote in news:4833C898.2090302@nosspam.activ8.net.au:

> Hello all,
>   I am trying to muliply a 72MHz crystal oscillator to 1296 MHz. My
> first approach was to just make a series of X2 or X3 transistor
> mulipliers to get the require X18 multiplication fact. However, I have

> found two pieces of equipment in the junk box which just use diode
> multipliers. One is an old Electrophone UHF CB radio which multiplies
> the crystal oscillator by 17 (I think, from memory)then uses helical
> resonators to filter the desired harmonic. The same approach is used in
> an old King aircraft transponder where the 138 MHz crystal is
multiplied
> to 960 MHz with just a diode and uses the first two stages of an
> interdigital mixer to get rid of unwanted harmonics.
> So, the question is, which is the better approach? I just want a
> reasonably clean signal source to test a 1296 MHz down-converter.
> The diode approach seems simpler but is it likely to contain more
> spurious signals than a transistor multiplier chain?
> Alan
> VK2ADB
>
>

From -3209319851949811697
X-Google-Thread: fc2a5,67e122ea93ba96e9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!69.28.186.77.MISMATCH!hwmpeer03.lga!hwmnpeer01.lga!news.highwinds-
media.com!hw-filter.lga!newsfe07.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4833C898.2090302@nosspam.activ8.net.au>
Subject: Re: Multiplier chains
Lines: 30
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <ZR3Zj.50$bx6.34@newsfe07.lga>
NNTP-Posting-Host: lcecbhddceddjnpchhgnkcjkhihlplce
X-Complaints-To: abuse@charter.net
X-Trace:
meohkjfdkiefkjamoldnlfdnfaaakleecgidgamgodclonfclcecbhddceddjnpcemcnolcjlekihdihmi
hgfmkljcjgnmikjdalollpoehomolpmngdifnkoocjhgjahfgdhgbgadeblehn
NNTP-Posting-Date: Wed, 21 May 2008 18:18:49 MST
Date: Wed, 21 May 2008 21:15:00 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:45

Is there some magic to using the 72 MHz oscillator? Gigahertz synthesizers are cheap and simple these days. Back in the bad old days multiplication was the cheap and easy way to get stable high frequencies. Today, that helical resonator would probably buy the synthesizer chip and associated support circuitry, and you needn't fiddle around with stage after stage.

```
..

"Alan Peake" <adpeake@nosspam.activ8.net.au> wrote in message
news:4833C898.2090302@nosspam.activ8.net.au...
> Hello all,
>     I am trying to muliply a 72MHz crystal oscillator to 1296 MHz. My
> first approach was to just make a series of X2 or X3 transistor mulipliers
> to get the require X18 multiplication fact. However, I have found two
> pieces of equipment in the junk box which just use diode multipliers. One
> is an old Electrophone UHF CB radio which multiplies the crystal
> oscillator by 17 (I think, from memory)then uses helical resonators to
> filter the desired harmonic. The same approach is used in an old King
> aircraft transponder where the 138 MHz crystal is multiplied to 960 MHz
> with just a diode and uses the first two stages of an interdigital mixer
> to get rid of unwanted harmonics.
> So, the question is, which is the better approach? I just want a
> reasonably clean signal source to test a 1296 MHz down-converter.
> The diode approach seems simpler but is it likely to contain more spurious
> signals than a transistor multiplier chain?
> Alan
> VK2ADB
>
```

```
From 2678169003860028730
X-Google-Thread: fc2a5,67e122ea93ba96e9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!aioe.org!not-for-
mail
From: Alan Peake <adpeake@nosspam.activ8.net.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Multiplier chains
Date: Thu, 22 May 2008 12:03:03 +1000
Organization: none
Lines: 12
Message-ID: <4834D457.4080909@nosspam.activ8.net.au>
References: <4833C898.2090302@nosspam.activ8.net.au>
<ZR3Zj.50$bx6.34@newsfe07.lga>
Reply-To: adpeake@nosspam.activ8.net.au
NNTP-Posting-Host: FIbVCnsNftFw+PGdDzm+Rg.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Accept-Language: en-us, en
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.0.2) Gecko/
20021120 Netscape/7.01
Xref: g2news1.google.com rec.radio.amateur.homebrew:46
```

xpyttl wrote:
> Is there some magic to using the 72 MHz oscillator? Gigahertz synthesizers
> are cheap and simple these days. Back in the bad old days multiplication
> was the cheap and easy way to get stable high frequencies. Today, that
> helical resonator would probably buy the synthesizer chip and associated
> support circuitry, and you needn't fiddle around with stage after stage.

I just wanted to do it with existing bits.
Alan

From -179333240205899661
X-Google-Thread: fc2a5,67e122ea93ba96e9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!aioe.org!not-for-mail
From: Alan Peake <adpeake@nosspam.activ8.net.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Multiplier chains
Date: Thu, 22 May 2008 12:17:40 +1000
Organization: none
Lines: 48
Message-ID: <4834D7C4.1050904@nosspam.activ8.net.au>
References: <4833C898.2090302@nosspam.activ8.net.au>
<Pine.LNX.4.64.0805211121500.11429@darkstar.example.org>
Reply-To: adpeake@nosspam.activ8.net.au
NNTP-Posting-Host: FIbVCnsNftFw+PGdDzm+Rg.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Accept-Language: en-us, en
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.0.2) Gecko/20021120 Netscape/7.01
Xref: g2news1.google.com rec.radio.amateur.homebrew:47

Michael Black wrote:
>
> I don't know, and one thing to remember is that what was done years ago
> may no longer be the solution because other things have come along.
>
Yes, as others have pointed out, a VCO and PLL is a better solution.

> A single stage of multiplication is of course simplest. But, if you
> do it in one step, the signal may be so weak that you need stages of
> amplification at the ultimate frequency. Once upon a time, frequency

```
> limits may have made that unfeasible.
I have a supply of MAR-1s that should do the trick there.

>
> Also, if you have one stage that basically generates harmonics, and
> then you expect to pick off the desired frequency, that filtering
> may need to be much better than multiple stages.  If you start
> with a low enough crystal frequency, the next harmonic may be too close
> and some of it will get through the filter on the ultimate frequency.
> If you have a string of multipliers, each does filtering so the next
> stage only has to deal with filtering out a relatively high frequency.
>
I wouldn't try a diode to go from 72 to 1296 but will double or triple
the oscillator and perhaps try the diode from there.

> Note that your two examples aren't comparable.  The first example you
> say multiplies by 17, while the second only multiplies by 6.  Even in
> the old days, it wasn't uncommon to see a jump like 6, but something
> like 17 was less common.
Sorry, it was a factor of 9, not 17. I just found the circuit:) The xtal
was 17 MHz.

>
> The real trick seems to be to start with as high a frequency as possible.
> Then the multiplication needed is limited, and it's far easier to filter
> out harmonics from a higher frequency crystal than a lower one.



>
>   Michael  VE2BVW
Thanks for your thoughts.
Alan



>





From -5147889844674236535
X-Google-Thread: fc2a5,67e122ea93ba96e9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!aioe.org!not-for-
mail
From: Alan Peake <adpeake@nosspam.activ8.net.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Multiplier chains
Date: Thu, 22 May 2008 12:19:26 +1000
Organization: none
Lines: 13
Message-ID: <4834D82E.8050904@nosspam.activ8.net.au>
References: <4833C898.2090302@nosspam.activ8.net.au> <slrng38l3m.19e4.bit-
```

bucket@shell.config.com>
Reply-To: adpeake@nosspam.activ8.net.au
NNTP-Posting-Host: FIbVCnsNftFw+PGdDzm+Rg.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Accept-Language: en-us, en
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.0.2) Gecko/20021120 Netscape/7.01
Xref: g2news1.google.com rec.radio.amateur.homebrew:48

Allodoxaphobia wrote:

> Are you building tens of thousands like Electrophone and King did?
> There was more than 'good' engineering involved with those boxes.
> The bean counters were all over it, too -- I'm sure.
>
> Jonesy

No, this is a "one-off" from my junk box.
Alan

From -5922811337065052900
X-Google-Thread: fc2a5,67e122ea93ba96e9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!aioe.org!not-for-mail
From: Alan Peake <adpeake@nosspam.activ8.net.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Multiplier chains
Date: Thu, 22 May 2008 12:29:00 +1000
Organization: none
Lines: 15
Message-ID: <4834DA6C.6060407@nosspam.activ8.net.au>
References: <4833C898.2090302@nosspam.activ8.net.au>
<far8341hd3kbq7iemv503crg10v6s6eiug@4ax.com>
Reply-To: adpeake@nosspam.activ8.net.au
NNTP-Posting-Host: FIbVCnsNftFw+PGdDzm+Rg.user.aioe.org
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
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X-Accept-Language: en-us, en
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.0.2) Gecko/20021120 Netscape/7.01
Xref: g2news1.google.com rec.radio.amateur.homebrew:49

Paul Keinanen wrote:

> Sounds like a step recovery diode (SRD) multiplier, which generates a
> very broad spectrum.
.....
I have a couple of SRDs but they seem to be optimised for 500MHz input
and I don't know if they would work at lower frequencies. I would assume
that the diodes I mentioned are some sort of SRD or "snap" diode so I
might pull one out and try it.

> Paul OH3LWR
>

From -6116945124594384836
X-Google-Thread: fc2a5,67e122ea93ba96e9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out02b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!pc03.usenetserver.com!KNOLOGY.NET-
a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4833C898.2090302@nosspam.activ8.net.au>
Subject: Re: Multiplier chains
Date: Thu, 22 May 2008 06:43:13 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <b0b5d$48355c51$18d6b40c$22792@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 27
X-Trace: b0b5d48355c51bd7311a922792
Xref: g2news1.google.com rec.radio.amateur.homebrew:50

"Alan Peake" <adpeake@nosspam.activ8.net.au> wrote in message
news:4833C898.2090302@nosspam.activ8.net.au...
> Hello all,
>   I am trying to muliply a 72MHz crystal oscillator to 1296 MHz. My
> first approach was to just make a series of X2 or X3 transistor mulipliers
> to get the require X18 multiplication fact. However, I have found two
> pieces of equipment in the junk box which just use diode multipliers. One
> is an old Electrophone UHF CB radio which multiplies the crystal
> oscillator by 17 (I think, from memory)then uses helical resonators to

```
> filter the desired harmonic. The same approach is used in an old King
> aircraft transponder where the 138 MHz crystal is multiplied to 960 MHz
> with just a diode and uses the first two stages of an interdigital mixer
> to get rid of unwanted harmonics.
> So, the question is, which is the better approach? I just want a
> reasonably clean signal source to test a 1296 MHz down-converter.
> The diode approach seems simpler but is it likely to contain more spurious
> signals than a transistor multiplier chain?
> Alan
> VK2ADB
>
 Here's an interesting simple circuit to generate odd harmonics.
 "New Topology Multiplier Generates Odd Harmonics"
http://www.wenzel.com/pdffiles1/pdfs/RFDesign2.pdf
                                                Mike




From 6954270918762820014
X-Google-Thread: fc2a5,67e122ea93ba96e9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!aioe.org!not-for-
mail
From: Alan Peake <adpeake@nosspam.activ8.net.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Multiplier chains
Date: Thu, 22 May 2008 22:49:01 +1000
Organization: none
Lines: 17
Message-ID: <48356BBD.7060607@nosspam.activ8.net.au>
References: <4833C898.2090302@nosspam.activ8.net.au>
<b0b5d$48355c51$18d6b40c$22792@KNOLOGY.NET>
Reply-To: adpeake@nosspam.activ8.net.au
NNTP-Posting-Host: FIbVCnsNftFw+PGdDzm+Rg.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Accept-Language: en-us, en
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.0.2) Gecko/
20021120 Netscape/7.01
Xref: g2news1.google.com rec.radio.amateur.homebrew:51



amdx wrote:

>  Here's an interesting simple circuit to generate odd harmonics.
>  "New Topology Multiplier Generates Odd Harmonics"
> http://www.wenzel.com/pdffiles1/pdfs/RFDesign2.pdf
>                                                 Mike
Yeah, saw that. Trouble is that I need EVEN harmonics :)
Anyway, there was some interesting info on snap diodes etc. Makes me
think that the diode used in the gear I have, aren't SRDs as these seem
to be mainly for microwave use. The other info I gleaned was that it's
easier to get low phase noise with straight multiplication than it is
with PLLs. Not that I have an urgent need for low phase noise - but it's
interesting nonetheless.
Alan



From 8992448932798361535
X-Google-Thread: fc2a5,67e122ea93ba96e9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!peer1.news.newnet.co.uk!
194.159.246.34.MISMATCH!peer-uk.news.demon.net!kibo.news.demon.net!
news.demon.co.uk!demon!g3ohx.demon.co.uk!ianREMOVETHISjackson
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Multiplier chains
Date: Thu, 22 May 2008 14:24:53 +0100
Lines: 40
Message-ID: <KbFU4MHlQXNIFwC3@g3ohx.demon.co.uk>
References: <4833C898.2090302@nosspam.activ8.net.au>
 <b0b5d$48355c51$18d6b40c$22792@KNOLOGY.NET>
 <48356BBD.7060607@nosspam.activ8.net.au>
NNTP-Posting-Host: g3ohx.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1211462697 15535 80.176.138.122 (22 May 2008 13:24:57
GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Thu, 22 May 2008 13:24:57 +0000 (UTC)
User-Agent: Turnpike/6.06-S (<P7fqWiZnKPDBzNCjZZIoeg8Ptp>)
Xref: g2news1.google.com rec.radio.amateur.homebrew:52

In message <48356BBD.7060607@nosspam.activ8.net.au>, Alan Peake
<adpeake@nosspam.activ8.net.au> writes
>
>
>amdx wrote:
>
>>  Here's an interesting simple circuit to generate odd harmonics.
>>  "New Topology Multiplier Generates Odd Harmonics"
>> http://www.wenzel.com/pdffiles1/pdfs/RFDesign2.pdf
>>                                                  Mike
>Yeah, saw that. Trouble is that I need EVEN harmonics :)

If you want EVEN harmonics, then use the 'fullwave rectifier' circuit.
This is essentially identical to what you use to rectify the mains, but
it works at RF. One version is the simple bi-phase circuit, consisting
```

of a ferrite input transformer (ratio 1 : 1+1) and two rectifying
diodes. An alternative is the fullwave bridge version.

I have used the former with great success to multiply by 2, 4 and even 6
but, of course, you get a lot less with the higher order harmonics.
Also, the relative suppression of the even harmonics is less.

>Anyway, there was some interesting info on snap diodes etc. Makes me
>think that the diode used in the gear I have, aren't SRDs as these seem
>to be mainly for microwave use.

I did get involved with a comb generator which used a single step
recovery diode, driven at 6, 7 or 8MHz, to generate fairly equal
amplitude harmonics (both odds and evens) to around 600MHz.

>The other info I gleaned was that it's easier to get low phase noise
>with straight multiplication than it is with PLLs. Not that I have an
>urgent need for low phase noise - but it's interesting nonetheless.
>Alan
>

I didn't know that the "New Topology Multiplier Generates Odd Harmonics"
circuit existed. It's every bit as simple as the fullwave rectifier
circuit for generating even harmonic!
--
Ian

From -8259401535970601613
X-Google-Thread: fc2a5,67e122ea93ba96e9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!kanaga.switch.ch!switch.ch!newsfeed3.funet.fi!newsfeeds.funet.fi!
feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Multiplier chains
Message-ID: <e6ta349vsjmq1jjtd1ore78011toen9prs@4ax.com>
References: <4833C898.2090302@nosspam.activ8.net.au>
<b0b5d$48355c51$18d6b40c$22792@KNOLOGY.NET>
<48356BBD.7060607@nosspam.activ8.net.au>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 9
Date: Thu, 22 May 2008 16:28:29 +0300
NNTP-Posting-Host: 85.77.241.213
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1211462925 85.77.241.213 (Thu, 22 May 2008 16:28:45 EEST)
NNTP-Posting-Date: Thu, 22 May 2008 16:28:45 EEST

```
Organization: Saunalahti Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:53
```

On Thu, 22 May 2008 22:49:01 +1000, Alan Peake
<adpeake@nosspam.activ8.net.au> wrote:

>Yeah, saw that. Trouble is that I need EVEN harmonics :)

A push-pull multiplier will suppress most odd harmonics.

Paul OH3LWR

```
From -273037575966267884
X-Google-Thread: fc2a5,67e122ea93ba96e9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g16g2000pri.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Multiplier chains
Date: Thu, 22 May 2008 10:35:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 42
Message-ID: <3e682108-29f7-43db-8107-8289d6415eb7@g16g2000pri.googlegroups.com>
References: <4833C898.2090302@nosspam.activ8.net.au>
<b0b5d$48355c51$18d6b40c$22792@KNOLOGY.NET>
     <48356BBD.7060607@nosspam.activ8.net.au>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1211477721 9720 127.0.0.1 (22 May 2008 17:35:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 22 May 2008 17:35:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: g16g2000pri.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:54
```

On May 22, 5:49 am, Alan Peake <adpe...@nosspam.activ8.net.au> wrote:
> amdx wrote:
> > Here's an interesting simple circuit to generate odd harmonics.
> > "New Topology Multiplier Generates Odd Harmonics"
> >http://www.wenzel.com/pdffiles1/pdfs/RFDesign2.pdf
> >   Mike
>
> Yeah, saw that. Trouble is that I need EVEN harmonics :)

> Anyway, there was some interesting info on snap diodes etc. Makes me
> think that the diode used in the gear I have, aren't SRDs as these seem
> to be mainly for microwave use. The other info I gleaned was that it's
> easier to get low phase noise with straight multiplication than it is
> with PLLs. Not that I have an urgent need for low phase noise - but it's
> interesting nonetheless.
> Alan

Huh? I thought you wanted to multiply by 18. 18 = 3 * 3 * 2.

If you were specific about what you want to do with the output, I missed it. If it's just low-level stuff (e.g., a signal to feed into the receiver input), you don't need much power and the multiplier can be very inefficient and still do what you want. As you note, phase noise will be better (possibly much better) than other ways of doing it, and it could be that the signal level will be a lot closer to what you want. You'll have to shield things pretty carefully to get down to microvolt levels from a PLL or other full-blown oscillator on 1.2GHz. There might already be enough 18th harmonic in the oscillator output to do what you need. I have some little very fast CMOS single gate chips that have square enough edges (under half a nanosecond rise time, unloaded) to generate quite a bit of harmonic content up that high. Though a PLL would work fine, you then need a way to set up the PLL chip, assuming you use one of the readily available programmable ones. I know for me, I could hack a decent analog multiplier with filters a lot quicker than I could a decent synthesizer. I had to do a x9 not long ago, and used a multiplication scheme. Also, I've seen small crystal oscillator modules from two different vendors that used a PLL to lock a 100MHz crystal to a lower frequency reference, and then used analog multiplication up to several times 100MHz--they are doing it for low phase noise.

Cheers,
Tom

From -520480927658957367
X-Google-Thread: fc2a5,67e122ea93ba96e9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!feeder.erje.net!aioe.org!not-for-mail
From: Alan Peake <adpeake@nosspam.activ8.net.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Multiplier chains
Date: Fri, 23 May 2008 09:27:13 +1000
Organization: none
Lines: 29
Message-ID: <48360151.2030601@nosspam.activ8.net.au>
References: <4833C898.2090302@nosspam.activ8.net.au>
<b0b5d$48355c51$18d6b40c$22792@KNOLOGY.NET>
<48356BBD.7060607@nosspam.activ8.net.au>
<3e682108-29f7-43db-8107-8289d6415eb7@g16g2000pri.googlegroups.com>

Reply-To: adpeake@nosspam.activ8.net.au
NNTP-Posting-Host: FIbVCnsNftFw+PGdDzm+Rg.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Accept-Language: en-us, en
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.0.2) Gecko/
20021120 Netscape/7.01
Xref: g2news1.google.com rec.radio.amateur.homebrew:55

K7ITM wrote:

>>Yeah, saw that. Trouble is that I need EVEN harmonics :)

>
> Huh? I thought you wanted to multiply by 18. 18 = 3 * 3 * 2.
Quite right. 18 is an even harmonic of course but I forgot about the
3*3*2 bit :)

>
> If you were specific about what you want to do with the output, I
> missed it.

It's to test a 1296 down-converter basically but will try a CW
transmitter later so a bit of grunt wouldn't go astray.

.... There might already be enough 18th harmonic in the oscillator
> output to do what you need.

Could be. AT the moment I have a 2N5485 as the osc and a 2N918 as a
doubler but the 2N918 runs out of puff well before 1296MHz. I have some
BFR91s so I might put them into use.

> Cheers,
> Tom
73 de Alan

From -4043453476773004562
X-Google-Thread: fc2a5,67e122ea93ba96e9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.acm.uiuc.edu!
news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Multiplier chains
Date: Fri, 23 May 2008 13:18:40 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada

Lines: 40
Sender: et472@72.0.192.102
Message-ID: <Pine.LNX.4.64.0805231313440.14728@darkstar.example.org>
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 <48360151.2030601@nosspam.activ8.net.au>
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X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 23 May 2008 17:22:34 GMT
In-Reply-To: <48360151.2030601@nosspam.activ8.net.au>
Xref: g2news1.google.com rec.radio.amateur.homebrew:56

On Fri, 23 May 2008, Alan Peake wrote:

>
>
> K7ITM wrote:
>
>>> Yeah, saw that. Trouble is that I need EVEN harmonics :)
>
>>
>> Huh? I thought you wanted to multiply by 18. 18 = 3 * 3 * 2.
> Quite right. 18 is an even harmonic of course but I forgot about the 3*3*2
> bit :)
>
>>
>> If you were specific about what you want to do with the output, I
>> missed it.
>
> It's to test a 1296 down-converter basically but will try a CW transmitter
> later so a bit of grunt wouldn't go astray.
>

But unless you need a signal to tune the converter to the right frequency, this is quite a bit simpler. So long as the converter is tuned to the right general frequency, merely something with good harmonics will do. The fact that they will be attenuated at the desired frequency is not a bad thing, since you won't want a strong signal for tuning the converter anyway.

Your original post didn't give an end use, but it was easy to assume you needed a clean signal for a transmitter of local oscillator injection in a converter. You don't want unwanted signals there.

But for a signal generator, having extra harmonics isn't really a problem (unless you can't be sure that your converter is tuned to the right frequency). The extra harmonics will just be ignored by the converter's tuned circuits.

There was a time when a lot of cheap signal generators actually used
harmonics for their upper ranges.

Michael VE2BVW

```
From 8958835896391202004
X-Google-Thread: fc2a5,bd84efcf25437cb4,start
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X-Google-Thread: 111d0a,bd84efcf25437cb4,start
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Path: g2news1.google.com!news1.google.com!postnews.google.com!
x35g2000hsb.googlegroups.com!not-for-mail
From: "bill.meara@gmail.com" <bill.meara@gmail.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.astro.amateur,sci.electronics.basics,rec.radio.amat
eur.boatanchors
Subject: Come into the SolderSmoke!
Date: Sun, 25 May 2008 00:23:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 59
Message-ID: <beb7bf20-a172-43a7-a85f-aab6274c97ea@x35g2000hsb.googlegroups.com>
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NNTP-Posting-Date: Sun, 25 May 2008 07:23:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x35g2000hsb.googlegroups.com; posting-host=81.208.83.208;
     posting-account=ePxsiwkAAACeKyenV1cL73nSaGPyDy3Q
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:57 sci.astro.amateur:407
sci.electronics.basics:586 rec.radio.amateur.boatanchors:188
```

If you melt solder, you should be in the SolderSmoke:

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Listen at: http://www.soldersmoke.com

SolderSmoke #84

May 25, 2008

SPECIAL FDIM PROGRAM!!!!
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SolderChat!
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W7ZOI/W7PUA Power Meter Calibration
Bifilar toroids in LTSpice. Help!
Variations in Type 43 Ferrite
Finding friends in old SPRATS
Beacon Madness hits I0/N2CQR
AA1TJ crosses the pond (really)
80 Meter DSB project (design first, build later!)
Bob, W8SX, interviews FDIM speakers!
MAILBAG:M0NDE, WB6NTL, ZS1I, NR5A, M0EEJ, ON6CSV
7J1AWL, KC0PET

Tired of listening to The Who or Wagner on your I-Pod?   Wouldn't you
like to be able to carry with
you the kinds of ham radio conversations that you
listen to while in your radio shack? Tune in to SolderSmoke!

RSS FEED: You can subscribe to the program, have
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software.
http://www.soldersmoke.com/soldersmoke.rss

If you don't have an MP3 player you can just go to the
site below and listen to the latest program (and
earlier editions) using the audio software on your
computer.

http://www.soldersmoke.com

All the programs are available here.

I hope you enjoy the program. Please send us
feedback.

73 from Rome
Bill M0HBR N2CQR CU2JL
http://www.gadgeteer.us

```
From 5291204057560966415
X-Google-Thread: fc2a5,22c75f654cc38996,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
```

nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 26 May 2008 11:43:30 -0500
From: "W3CQH" <hsgorden@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: REMOVING ENAMEL COATING
Date: Mon, 26 May 2008 12:43:25 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
Lines: 8
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 76.100.216.180
X-Trace: sv3-mhqVU7JQNUudcfICqd90tHD8nMLi2XJaexrp/lpGVEP2qMszXORAm/
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WnBywQIq5sZCy3gMAbh+4rM4CgpSifS2Z!r0XfxlX9MqMeCXH6GlU/tTkNGY6yBJw=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com rec.radio.amateur.homebrew:58

Does anybody have the name of the substance that was sold years ago for removing the enamel coating from wires, or maybe the name of something new? You would soak the wire in it and it would soften the coating and then you just wiped the goop off the wire.

73's

From 4050234652744370957
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.tivoinc!news.tivoinc.POSTED!
not-for-mail
NNTP-Posting-Date: Mon, 26 May 2008 14:08:04 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Mon, 26 May 2008 12:06:15 -0700

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Message-ID: <7aerg5-09m.ln1@radagast.org>
Lines: 34
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.159.209.148
X-Trace: sv3-0BrVTzG7C6h2mTmBTv5oxxK/
FrI0eHHYmlbN+57Jzo5YSH2ub8tpNblFuV7MEXMU3MMrRMxSZVxjUWg!21fWFEZ32CljIT/
6ZVghfvxx1BqIwGd8xV0d5c12LBE5J4+yYu/gH2dg0BPOPQ==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:59

In article <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>,
W3CQH <hsgorden@comcast.net> wrote:

>Does anybody have the name of the substance that was sold years ago for
>removing the enamel coating from wires, or maybe the name of something new?
>You would soak the wire in it and it would soften the coating and then you
>just wiped the goop off the wire.

I think you're referring to GC Electronics Strip-X.  Doesn't seem to
be on the market these days, as best as I can tell.

I found a MSDS which states that it's 70% methylene chloride, 25%
cresol (isomers of cresylic acid), around 5% ammonia, plus some wax
and thickening agents.

One poster in an earlier thread stated that it was designed to work
with Formvar insulation, and might not work as well on the newer
Polythermaleze insulation.

There's a paint-and-finish stripper of a similar name (Klean-Strip
Strip-X) available these days.  Like the wire-"Strip-X" it contains
methylene chloride, but it has no cresol or ammonia.  Its other
ingredients include toluene, xylene, and methanol, plus a thickener
(it's relatively goopy and would probably have to be wiped off of the
wire using a paper towel or Q-tip or something like that).

These chemicals all come with fire- and health-hazard warnings... if
you use 'em, do so with proper care and precautions!

--
Dave Platt <dplatt@radagast.org>                                  AE6EO
Friends of Jade Warrior home page:  http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!


From 7522702786435568622
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 26 May 2008 21:57:11 -0500
Date: Tue, 27 May 2008 02:57:11 +0000
From: Scott <acepilotREMOVE@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
<7aerg5-09m.ln1@radagast.org>
In-Reply-To: <7aerg5-09m.ln1@radagast.org>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <SbadnbMpgbka5abVnZ2dnUVZ_sjinZ2d@bright.net>
Lines: 39
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-enQDtLf8am6qjTy8y4h8HBM45JmuN91/peFiJo7Z/y/
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agJTs5MavA==
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:60

Dave Platt wrote:
> In article <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>,
> W3CQH <hsgorden@comcast.net> wrote:
>
>
>>Does anybody have the name of the substance that was sold years ago for
>>removing the enamel coating from wires, or maybe the name of something new?
>>You would soak the wire in it and it would soften the coating and then you
>>just wiped the goop off the wire.
>
>
> I think you're referring to GC Electronics Strip-X. Doesn't seem to
> be on the market these days, as best as I can tell.
>
> I found a MSDS which states that it's 70% methylene chloride, 25%
> cresol (isomers of cresylic acid), around 5% ammonia, plus some wax
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>
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>

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> (it's relatively goopy and would probably have to be wiped off of the
> wire using a paper towel or Q-tip or something like that).
>
> These chemicals all come with fire- and health-hazard warnings... if
> you use 'em, do so with proper care and precautions!
>

I just put a glob of solder on the soldering iron tip and dunk the
enameled wire into it until the enamel melts and the solder tins the end
of the wire. Been doing that for over 20 years now...seems to work A-OK.

Scott
N0EDV

From 5755973424900177069
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 27 May 2008 06:09:56 -0500
From: "W3CQH" <hsgorden@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
<7aerg5-09m.ln1@radagast.org> <SbadnbMpgbka5abVnZ2dnUVZ_sjinZ2d@bright.net>
Subject: Re: REMOVING ENAMEL COATING
Date: Tue, 27 May 2008 07:09:51 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <wLydnWPz8ciZcabVnZ2dnUVZ_sWdnZ2d@comcast.com>
Lines: 49
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 76.100.216.180
X-Trace: sv3-0uFD8EjmGAXw/5n1lSLCJ4X8TYYvrKYI9seC212gBJ/5DF/
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c2g0bxkTjMzNluYwesdduRQR09V5fEIPsFiENjS6SOCm!N2EM00+5FoY52Am3KNSRgJWS/bfzXhg=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:61

"Scott" <acepilotREMOVE@bloomer.net> wrote in message
news:SbadnbMpgbka5abVnZ2dnUVZ_sjinZ2d@bright.net...
> Dave Platt wrote:
>> In article <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>,
>> W3CQH <hsgorden@comcast.net> wrote:
>>
>>
>>>Does anybody have the name of the substance that was sold years ago for
>>>removing the enamel coating from wires, or maybe the name of something
>>>new?
>>>You would soak the wire in it and it would soften the coating and then
>>>you just wiped the goop off the wire.
>>
>>
>> I think you're referring to GC Electronics Strip-X. Doesn't seem to
>> be on the market these days, as best as I can tell.
>>
>> I found a MSDS which states that it's 70% methylene chloride, 25%
>> cresol (isomers of cresylic acid), around 5% ammonia, plus some wax
>> and thickening agents.
>>
>> One poster in an earlier thread stated that it was designed to work
>> with Formvar insulation, and might not work as well on the newer
>> Polythermaleze insulation.
>>
>> There's a paint-and-finish stripper of a similar name (Klean-Strip
>> Strip-X) available these days. Like the wire-"Strip-X" it contains
>> methylene chloride, but it has no cresol or ammonia. Its other
>> ingredients include toluene, xylene, and methanol, plus a thickener
>> (it's relatively goopy and would probably have to be wiped off of the
>> wire using a paper towel or Q-tip or something like that).
>>
>> These chemicals all come with fire- and health-hazard warnings... if
>> you use 'em, do so with proper care and precautions!
>>
>
> I just put a glob of solder on the soldering iron tip and dunk the
> enameled wire into it until the enamel melts and the solder tins the end
> of the wire. Been doing that for over 20 years now...seems to work A-OK.
>
> Scott
> N0EDV

Thanks Scott - I forgot that technique - Yes it does work - sometimes when
you get some age on your brain, it tends to lose some of the lesser used
items. - Best 73's de Howard W3CQH

From 5354468915074218882
X-Google-Thread: fc2a5,22c75f654cc38996

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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!c65g2000hsa.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Tue, 27 May 2008 06:12:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 52
Message-ID: <0e8dcb32-263e-4a35-80a8-24af202ce311@c65g2000hsa.googlegroups.com>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
     <7aerg5-09m.ln1@radagast.org> <SbadnbMpgbka5abVnZ2dnUVZ_sjinZ2d@bright.net>
NNTP-Posting-Host: 170.121.15.46
Mime-Version: 1.0
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X-Trace: posting.google.com 1211893969 17457 127.0.0.1 (27 May 2008 13:12:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 May 2008 13:12:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c65g2000hsa.googlegroups.com; posting-host=170.121.15.46;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:62

On May 26, 10:57=A0pm, Scott <acepilotREM...@bloomer.net> wrote:
> Dave Platt wrote:
> > In article <2MudnQLupO8vdafVnZ2dnUVZ_hadn...@comcast.com>,
> > W3CQH <hsgor...@comcast.net> wrote:
>
> >>Does anybody have the name of the substance that was sold years ago for
> >>removing the enamel coating from wires, or maybe the name of something n=
ew?
> >>You would soak the wire in it and it would soften the coating and then y=
ou
> >>just wiped the goop off the wire.
>
> > I think you're referring to GC Electronics Strip-X. =A0Doesn't seem to
> > be on the market these days, as best as I can tell.
>
> > I found a MSDS which states that it's 70% methylene chloride, 25%
> > cresol (isomers of cresylic acid), around 5% ammonia, plus some wax
> > and thickening agents.
>
> > One poster in an earlier thread stated that it was designed to work
> > with Formvar insulation, and might not work as well on the newer
> > Polythermaleze insulation.
>
> > There's a paint-and-finish stripper of a similar name (Klean-Strip
> > Strip-X) available these days. =A0Like the wire-"Strip-X" it contains
```

> > methylene chloride, but it has no cresol or ammonia. =A0Its other
> > ingredients include toluene, xylene, and methanol, plus a thickener
> > (it's relatively goopy and would probably have to be wiped off of the
> > wire using a paper towel or Q-tip or something like that).
>
> > These chemicals all come with fire- and health-hazard warnings... if
> > you use 'em, do so with proper care and precautions!
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> I just put a glob of solder on the soldering iron tip and dunk the
> enameled wire into it until the enamel melts and the solder tins the end
> of the wire. =A0Been doing that for over 20 years now...seems to work A-OK=
.

Almost all modern enameled magnet wires have Beldsol-type coatings
that are supposed to burn/vaporize at soldering temperatures, yes.

I think that some Beldsol-type coatings have a further nylon overcoat
that is quite impermeable to most of the solvents I have sitting on my
shelf... yet it vaporizes if I dunk it in solder. I think
Polythermaleze is a polyester of some kind and seems to be more
amenable to the solvents I have.

Occasionally I will run across a different enamel that's supposed to
stand higher temperatures... often the color is not the same red as
Beldsol but sometimes it is!

Tim N3QE

From -6093943601216941927
X-Google-Thread: fc2a5,22c75f654cc38996
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!eweka.nl!lightspeed.eweka.nl!
feeder.erje.net!aioe.org!not-for-mail
From: Alan Peake <adpeake@nosspam.activ8.net.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: REMOVING ENAMEL COATING
Date: Tue, 27 May 2008 23:30:44 +1000
Organization: none
Lines: 15
Message-ID: <483C0D04.8030709@nosspam.activ8.net.au>
References: <2MudnQLupO8vdafVnZ2dnUVZ_hadnZ2d@comcast.com>
<7aerg5-09m.ln1@radagast.org> <SbadnbMpgbka5abVnZ2dnUVZ_sjinZ2d@bright.net>
<0e8dcb32-263e-4a35-80a8-24af202ce311@c65g2000hsa.googlegroups.com>
Reply-To: adpeake@nosspam.activ8.net.au
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Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
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X-Accept-Language: en-us, en
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.0.2) Gecko/

```
20021120 Netscape/7.01
Xref: g2news1.google.com rec.radio.amateur.homebrew:63
```

Tim Shoppa wrote:

>
> Almost all modern enameled magnet wires have Beldsol-type coatings
> that are supposed to burn/vaporize at soldering temperatures, yes.

These seem to have a dark red or maroon colouring as opposed to older
enamels which were a golden colour. These are certainly not heat-strippable.
I don't recall the heat-strippable enamels much before the 70s.
Alan

```
From 9029127948178820656
X-Google-Thread: fc2a5,c109b30fe87e341f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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online.de!newsfeed.freenet.de!fu-berlin.de!uni-berlin.de!news.dfncis.de!not-for-
mail
From: markus wolfgart <markus.wolfgart@dlr.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UAA2001 PLL SYNTHESIZER
Date: Wed, 23 Apr 2008 14:57:32 +0200
Lines: 29
Message-ID: <678q1tF2nmpu3U1@mid.dfncis.de>
References: <674f6kF2mnuvtU1@mid.dfncis.de>
<R7h6TYEqKkDIFwCW@clintsmc.demon.co.uk>
<LJCdnZ4C7tnn_pPVnZ2dnUVZ_s_inZ2d@cpinternet>
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Content-Transfer-Encoding: 7bit
X-Trace: news.dfncis.de uLbp9zk9Or7PJSCvP5WvDQ/KweDB+rh2lPgDqMth1sY8lLuPWR89N1xbR6
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User-Agent: Thunderbird 2.0.0.12 (Windows/20080213)
In-Reply-To: <LJCdnZ4C7tnn_pPVnZ2dnUVZ_s_inZ2d@cpinternet>
Xref: g2news1.google.com rec.radio.amateur.homebrew:15526
```

Hi Michael,
hi Clint,

honestly speaking, I'm not quite sure if this part is really from
Motorola, but it is mentioned in a "consumer and automotive application
note" from Motorola and many other well known mot. ic's are listed in
this note like the famous MC1350 if amp.

Markus
DL8MBY

msg schrieb:
> Clint Sharp wrote:
>
> <snip>
>>> I'm looking for a pinout and/or data sheet of a old Motorola ic named
>>>
>>> UAA2001
>>
>> Is that really a Moto device? Sounds more like a TFK (telefunken) or
>> Philips device to me. Of course I could be wrong..
>
> Check the first URL that I posted in reply to the O.P.; you will see
> that this device is included in a 1986 Motorola Euro Master Selection
> Guide.
>
> Michael

```
From -5881992385416375056
X-Google-Thread: fc2a5,2cf0336b6b6fb6fc,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m73g2000hsh.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: May QST... winner of $50 homebrew SSB transceiver challenge
Date: Wed, 23 Apr 2008 06:06:44 -0700 (PDT)
Organization: http://groups.google.com
Lines: 35
Message-ID: <9b7f0707-f476-4044-88d2-49671c497c82@m73g2000hsh.googlegroups.com>
NNTP-Posting-Host: 170.121.15.46
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1208956004 28904 127.0.0.1 (23 Apr 2008 13:06:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 23 Apr 2008 13:06:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000hsh.googlegroups.com; posting-host=170.121.15.46;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15527
```

The May 2008 QST has WA2EUJ's winning entry for the ARRL Homebrew challenge - the TAK-40 is a homebrew SSB transceiver made out of $49.50 in parts.

I am truly fascinated by this gadget. I ordered the parts (alas, inflation from entry time until now has driven the total bill up to closer to $60 these days... but some stuff from the junkbox brings it down again for me. And that's still cheaper than a new copy of the ARRL handbook!) and hope to build it in the next few weeks.

Even though it won in the "PC-supported" category, it does not require a PC to use it at all, just to program during construction the PIC microcontroller which does all the T/R switching as well as VFO and BFO and frequency counting magic. Get someone to program the PIC for you and you won't have to use a PC at all.

Some (including me) had previously postulated that the PC-supported entries would be closer to a software-defined radio, with a low IF and a lot of digital processing done via a PC's sound card and software. I am actually reassured a bit that this is not what the winner did... but wonder what software-defined entries were submitted. Maybe there were some, but in terms of performance WA2EUJ's seems to have beat them.

The WA2EUJ entry uses a PIC for T/R switching and even drives DAC's for VFO and BFO tuning (it's necessary to shift these for modes, T/R on CW, etc.) with frequency counting via the PIC and display on a LCD, but the only use for a PC is to program the PIC.

I think KD1JV's entry, in the non-PC-supported category, will be interesting as well. I think it gets published this month, but on KD1JV's website he already has construction details. His PTO looks pretty nifty!

Tim.

From -523065725253609662
X-Google-Thread: fc2a5,c109b30fe87e341f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!news.dfncis.de!not-for-mail
From: markus wolfgart <markus.wolfgart@dlr.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UAA2001 PLL SYNTHESIZER
Date: Wed, 23 Apr 2008 15:07:28 +0200
Lines: 38
Message-ID: <678qkgF2o1iuiU1@mid.dfncis.de>
References: <674f6kF2mnuvtU1@mid.dfncis.de> <a6968f35-ba97-48a5-b67d-caa0b29362a0@8g2000hse.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

X-Trace: news.dfncis.de bh0oxPZ2sEf/gEy5FHi6KQgHtwocJprKst6HAhLCDGX8iHBaROJ1d5aFZ8
Cancel-Lock: sha1:i4zTb6sIEM1Upob6ht21mGbsBOQ=
User-Agent: Thunderbird 2.0.0.12 (Windows/20080213)
In-Reply-To: <a6968f35-ba97-48a5-b67d-caa0b29362a0@8g2000hse.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:15528

Hi Tim,

I have no possibility to find out the pinout from a tuner as I have just
a hand full of this mysterious ic's without a documentation on them.

So at least I will have to blow some of them to find out the pin out
with a bit of luck if it is not a I2C device.

Markus
BL8MBY

Tim Shoppa schrieb:
> On Apr 21, 5:27 pm, markus wolfgart <markus.wolfg...@dlr.de> wrote:
>> Hi OMs/OPs and NG readers,
>>
>> I'm looking for a pinout and/or data sheet of a old Motorola ic named
>>
>> UAA2001
>>
>> should be a pll synthesizer for TV tuners.
>
> I always thought that was a Toshiba part.
>
> 80's era TV and VCR tuners are most interesting, IMHO, used as the tin-
> can modules. If the TV is still functional you can usually figure out
> the header connector functions with a voltmeter or even a logic probe
> - no need to dink around with pinouts.
>
> Do modern TV's still have the tin-can tuner modules, or is it more
> highly integrated these days? Of course a modern TV isn't an analog TV
> anymore either...geeze, it's been at least a decade since I tore into
> broken TV's and VCR's for parts, I gotta start doing it again! If
> we're lucky there will be a huge flood of older analog TV's for
> scavenging soon.
>
> Tim.

From -5522506797104859700
X-Google-Thread: fc2a5,4a124134049b60f8,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-
mail

From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 4CX1500B
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <hLHPj.79171$TT4.13702@attbi_s22>
NNTP-Posting-Host: 12.219.130.17
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1208961101 12.219.130.17 (Wed, 23 Apr 2008 14:31:41 GMT)
NNTP-Posting-Date: Wed, 23 Apr 2008 14:31:41 GMT
Organization: AT&T ASP.att.net
Date: Wed, 23 Apr 2008 14:31:41 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15529

Would some kind soul that actually knows/uses one of these, please identify
the filament ring and the filament/cathode ring.

MNI Tnx

W4ZCB

From 5544327122190435899
X-Google-Thread: fc2a5,c109b30fe87e341f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!34g2000hsf.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UAA2001 PLL SYNTHESIZER
Date: Wed, 23 Apr 2008 09:02:13 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <e92284d6-1c49-4747-9048-f997d99e2cd1@34g2000hsf.googlegroups.com>
References: <674f6kF2mnuvtU1@mid.dfncis.de> <a6968f35-ba97-48a5-b67d-caa0b29362a0@8g2000hse.googlegroups.com>
     <678qkgF2o1iuiU1@mid.dfncis.de>
NNTP-Posting-Host: 170.121.15.46
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1208966534 29423 127.0.0.1 (23 Apr 2008 16:02:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 23 Apr 2008 16:02:14 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 34g2000hsf.googlegroups.com; posting-host=170.121.15.46;

```
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15530
```

On Apr 23, 9:07=A0am, markus wolfgart <markus.wolfg...@dlr.de> wrote:

> Hi Tim,
>
> I have no possibility to find out the pinout from a tuner as I have just
> a hand full of this mysterious ic's without a documentation on them.
>
> So at least I will have to blow some of them to find out the pin out
> with a bit of luck if it is not a I2C device.

Oh, no, predates microcontrollers in TV's for the most part (not by a
lot but at least a little). It probably worked with another chip that
did LED display of channel number and handled pushbuttons for up/down.

The next generation did on-screen display of channel number, that's
where I2C started showing up in at least some tuner/TV's.

Tim.

```
From 5787599356326951764
X-Google-Thread: fc2a5,4a5a52db5cf44d04
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
e53g2000hsa.googlegroups.com!not-for-mail
From: N2EY@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 7360/6AR8 mixer configs
Date: Wed, 23 Apr 2008 10:57:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 77
Message-ID: <e3b4c257-aed5-4cc4-b34f-f71519061411@e53g2000hsa.googlegroups.com>
References: <d5ce3035-b5a1-461e-989c-2076f2c0140d@u10g2000prn.googlegroups.com>
     <d6cfcba2-5d50-4c5c-a7df-4e92244f968e@2g2000hsn.googlegroups.com>
     <fs8iq8$7d9$1@theodyn.ncf.ca> <51505d5b-ef91-4530-9ede-
d7e5d2c77a1d@13g2000hsb.googlegroups.com>
     <Pine.LNX.4.64.0803242222350.13145@darkstar.example.org>
NNTP-Posting-Host: 207.101.100.154
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1208973474 20262 127.0.0.1 (23 Apr 2008 17:57:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 23 Apr 2008 17:57:54 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e53g2000hsa.googlegroups.com; posting-host=207.101.100.154;
     posting-account=RbcUGAkAAAA9Thc81ac7PtCHP-4LmRCe
```

User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15531

On Mar 25, 1:41=A0am, Michael Black <et...@ncf.ca> wrote:
> On Mon, 24 Mar 2008, Tim Shoppa wrote:

> QST for May 1965 has the "Miser's Dream" that was a pretty advanced
> receiver for the time, including a 7360 mixer and an HF IF filter (though
> a second conversion to 455KHz for specific design reasons).

The article is called "Some Thoughts on Home Receiver Design". The
second
conversion to 455 kc. was to avoid having the BFO on the lots-of-gain
IF, and to
permit the use of a crystal controlled BFO, yet have it be adjustable
by moving
the 2215-to-455 oscillator freq.

The first IF is 2215 kc. If you can find a junked Sierra 126B
selective voltmeter,
it has nearly-identical filters inside. Some other models of Sierra
selective voltmeter
may have them too.

>=A0I've
> always considered that the vector for the 7360 in hobby receiver
> mixers, though if I dug out the article, I'm sure it explicitly
> referenced the Squires article.

The Squires article was in Sept. 1963 QST.

> =A0One feature of the receiver is
> a q-multiplier at the signal frequency, to improve front end
> selectivity given there was no RF amplifier. =A0I've always wondered
> how necessary that q-multiplier was, given later receivers with
> high IFs got by fine with limited front end selectivity (I always
> wondered if the notion of no RF amplifier was so radical that
> they felt a need for the q-multiplier).

It was necessary on the higher bands. The IF was only 2215 kc., and on
15 meters the image rejection wasn't too good with just a single tuned
circuit.
The quick solution was an RF Q multiplier. But it seems to me to be an
add-on;
what it does is to boost the desired signal by increasing the
effective Q, rather
than rejecting the unwanted by adding more poles.

IMHO the better solution would be a double-tuned input circuit.

> There was a tube receiver in QST about February of 1973 (or was

> it '72?), that had to be one of the last described there. =A0It went
> for super strong signal handling, including a 7360 mixer and some
> sort of power tube as the RF stage.

"An Experimental Receiver For 75 Meter DX Work", by W1KLK, February
1972.
Uses a 7044 computer duotriode as a grounded-grid RF amp, followed by
a 7360 mixer.
There are no less than four tuned circuits before the mixer, and you
have to retune the
preselector often. Not for idle bandscanning; this RX is for digging
out the weak ones.

The 6AR8 is reportedly microphonic, and other types are preferable.
7360 was considered
a transmitting tube, which is why you find it in the Transmitting Tube
manual, and why
almost nobody but RCA made them.

Alternatives are the 6JH8 and 6ME8, which are less expensive and more
common. They were
used in TV sets. At least one ham rig maker (Swan) changed from using
the 7360 as a
balanced modulator to the 6JH8.

The Southgate Type 7 receiver section uses a 7360 mixer (google my
call to see).

73 de Jim, N2EY

From 8409411710926649924
X-Google-Thread: fc2a5,c109b30fe87e341f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
peer1.news.newnet.co.uk!194.159.246.34.MISMATCH!peer-uk.news.demon.net!
kibo.news.demon.net!news.demon.co.uk!demon!clintsmc.demon.co.uk!clint
From: Clint Sharp <clint@clintsmc.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UAA2001 PLL SYNTHESIZER
Date: Wed, 23 Apr 2008 07:57:07 +0100
Organization: Little
Lines: 13
Message-ID: <8j7x1aBD3tDIFw2h@clintsmc.demon.co.uk>
References: <674f6kF2mnuvtU1@mid.dfncis.de>
 <R7h6TYEqKkDIFwCW@clintsmc.demon.co.uk>
 <LJCdnZ4C7tnn_pPVnZ2dnUVZ_s_inZ2d@cpinternet>
NNTP-Posting-Host: clintsmc.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1208982852 1437 62.49.16.63 (23 Apr 2008 20:34:12 GMT)
X-Complaints-To: abuse@demon.net

```
NNTP-Posting-Date: Wed, 23 Apr 2008 20:34:12 +0000 (UTC)
User-Agent: Turnpike/6.07-S (<dZ0L$dhccvrOML87oy3Lbajos4>)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15532

In message <LJCdnZ4C7tnn_pPVnZ2dnUVZ_s_inZ2d@cpinternet>, msg
<msg@_cybertheque.org_> writes
>Check the first URL that I posted in reply to the O.P.; you will see
>that this device is included in a 1986 Motorola Euro Master Selection
>Guide.
>
>Michael
You're right.. Hmm, Very old device though, and I'm trying to think
where I've seen them, could be in old Grundig or Philips television
tuners, might be worth searching around for some old television
schematics for the OP.
--
Clint Sharp



From -3799464005527399666
X-Google-Thread: fc2a5,4a124134049b60f8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews8.bellsouth.net.POSTED!8f6bddba!
not-for-mail
From: "K4ERG" <k4erg@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <hLHPj.79171$TT4.13702@attbi_s22>
Subject: Re: 4CX1500B
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <aiNPj.45867$r76.10414@bignews8.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mabncmnekmdohbabdbdpiflmbcekedmfhojhikkbagflhcboamdenfpdnmmegipejejmbolnbchbafgogb
boagcljigkpeemfopjhfdgfcdbkbapagimhaemmmhpcphmlojdnnpagcodaanldpjdffkndkaaabno
NNTP-Posting-Date: Wed, 23 Apr 2008 16:50:14 EDT
Organization: BellSouth Internet Group
Date: Wed, 23 Apr 2008 15:49:13 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:15533


"Harold E. Johnson" <W4ZCB@mchsi.com> wrote in message
news:hLHPj.79171$TT4.13702@attbi_s22...
> Would some kind soul that actually knows/uses one of these, please
> identify the filament ring and the filament/cathode ring.
>
```

> MNI Tnx
>
> W4ZCB
>

Bottom - - Heater
Next up - - Heater and cathode
Next up - - Grid
Next up - - Screen

```
From 1881658537256842222
X-Google-Thread: fc2a5,c109b30fe87e341f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.cpinternet!news.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 23 Apr 2008 17:11:05 -0500
Date: Wed, 23 Apr 2008 17:11:12 -0500
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UAA2001 PLL SYNTHESIZER
References: <674f6kF2mnuvtU1@mid.dfncis.de> <a6968f35-ba97-48a5-b67d-
caa0b29362a0@8g2000hse.googlegroups.com>  <678qkgF2o1iuiU1@mid.dfncis.de>
<e92284d6-1c49-4747-9048-f997d99e2cd1@34g2000hsf.googlegroups.com>
In-Reply-To: <e92284d6-1c49-4747-9048-f997d99e2cd1@34g2000hsf.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Na6dnZcCd9JkLpLVnZ2dnUVZ_jCdnZ2d@cpinternet>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-pHQivrz0ok/
W6So4ypiraqyMAdA4MYqjW4ItXo0Kca0bEzaqL34LiLaD2DfRlg7yPaoLkYdeOg5e/qW!
1b85WNwnidHzkOgE3N1S0K9KZQl9O3m+ACIHIOxm1wtz+sAx+o6ifQDkSkf1W9me8pWvQCaP/gC4!
QanlPxPekUlk
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:15534
```

Tim Shoppa wrote:

> On Apr 23, 9:07 am, markus wolfgart <markus.wolfg...@dlr.de> wrote:
>
>>Hi Tim,
>>
>>I have no possibility to find out the pinout from a tuner as I have just
>>a hand full of this mysterious ic's without a documentation on them.
>>
>>So at least I will have to blow some of them to find out the pin out
>>with a bit of luck if it is not a I2C device.
>
>
> Oh, no, predates microcontrollers in TV's for the most part (not by a
> lot but at least a little). It probably worked with another chip that
> did LED display of channel number and handled pushbuttons for up/down.
>

Yes, Tim; my second reply to the O.P. referred to the UAA2022, which is
the LED display driver and controller you suspected ;)

Michael

From -7306594034250903659
X-Google-Thread: fc2a5,4a124134049b60f8
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <hLHPj.79171$TT4.13702@attbi_s22>
<aiNPj.45867$r76.10414@bignews8.bellsouth.net>
Subject: Re: 4CX1500B
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <hFOPj.133443$yE1.24264@attbi_s21>
NNTP-Posting-Host: 12.219.130.17
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1208989389 12.219.130.17 (Wed, 23 Apr 2008 22:23:09 GMT)
NNTP-Posting-Date: Wed, 23 Apr 2008 22:23:09 GMT
Organization: AT&T ASP.att.net
Date: Wed, 23 Apr 2008 22:23:09 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15535

"K4ERG" <k4erg@arrl.net> wrote in message
news:aiNPj.45867$r76.10414@bignews8.bellsouth.net...
>

> Bottom - - Heater
> Next up - - Heater and cathode
> Next up - - Grid
> Next up - - Screen

Ah! Bless you "Erg". The ONLY thing I could find was as you state for a very old (45 years) copy of a 4CX1000 data sheet. Even Google was befuddled.

It makes sense to me (And to the builder of the not quite finished amplifier that I inherited) that Eimac would put the lowest potential terminal at the bottom. And then proceed to the screen. Obviously, they had something else in mind.

Wired with the bottom ring to ground, making the cathode 6 Volts AC above ground gives rated power out, but about 200 Watts of it was 60 Hz hum. The task of making the change is pretty daunting. Not impossible, just daunting, and I wanted to make certain that this was where my hum was coming from (31 Volts of bias, ~25 of DC and 6 of AC) before I removed half the amplifier to get the sub-chassis out.

Tnx again.
W4ZCB

From -1547341719915818686
X-Google-Thread: fc2a5,de9f72a22515edbc,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!news.astraweb.com!border2.a.newsrouter.astraweb.com!hwmnpeer01.ams!news-out.ntli.net!newsrout1-gui.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!newsfe2-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Theo" <theodore.twyler@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Transmitter Circuit?
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <783Qj.59291$h65.56659@newsfe2-gui.ntli.net>
Date: Thu, 24 Apr 2008 17:08:19 GMT
NNTP-Posting-Host: 86.15.197.154
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe2-gui.ntli.net 1209056899 86.15.197.154 (Thu, 24 Apr 2008 18:08:19 BST)
NNTP-Posting-Date: Thu, 24 Apr 2008 18:08:19 BST
Organization: ntl Cablemodem News Service
Xref: g2news1.google.com rec.radio.amateur.homebrew:15536

I am trying to locate the article for a simple 2 transistor topband AM phone

transmitter
from many years ago that I am sure appeared in "Practical Wireless" sometime between 1958 and 1965.
If memory serves me correctly, it used two germanium transistors, OC71 and OC44.
The OC71 was configured as a microphone amp/modulator and the OC44 as a Hartley oscillator.
The oscillator coil was wound on a short piece of ferrite rod.
I wonder if anyone can help in any way?

From -1758556375058721866
X-Google-Thread: fc2a5,1ac57038c25a561b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 25 Apr 2008 05:09:48 -0500
From: "CP" <someone@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
References: <66u08mF1soskqU1@mid.individual.net>
Subject: Re: Can anyone point me to an appropriate solid-state exciter circuit for my 2E26?
Date: Fri, 25 Apr 2008 06:09:38 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.5508
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.5508
X-RFC2646: Format=Flowed; Response
Message-ID: <jPOdnbw9A91xMIzVnZ2dnUVZ_qOknZ2d@comcast.com>
Lines: 30
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.245.108.41
X-Trace: sv3-yskVYWE8aL464bYRA9z20Zpn7yrfPIlej89JYglt3Lakw7xTNrV/
RnXYPJj6QemrHOUAuG6e7zPCUnR!
ldrUuAv+9ZRvsNWyW+XAMa3iGepzXLqKHCS4DJqjWjgkzxRuDzc5CSmmFUVtuLaQNbylkhvQwVuJ!
GVl6FiU7uqYKpRdNMYKiXUhrHoYrZw==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:15537

If the 2E26 is operating class C, I think you'll have a problem generating enough voltage swing at the 2E26 grid unless you use tuned circuits to step up the SS drive circuit's output. I have kinda similar set up, DDS VFO drives SS broadband chain drives (1:4 stepup here) 6CL6 (tuned circuit here) drives 6146.

Bob
kb8tl

"Richard" <nearlynews_email@ntlworld.com> wrote in message
news:66u08mF1soskqU1@mid.individual.net...
>I want to homebrew a crystal controlled (or VXO) CW Tx, (capable of
>break-in
> operation) that employs a 2E26 tube in the PA. With ICAS operation I can
> get
> 27 watts of RF out with a driving power of 0.17 wattts (according to my
> RCA
> sheet). I want most of my "design" efforts and interest to centre around
> the PA stage. I think I could cope with that at least.
>
> Can anyone please point me to a suitable solid-state exciter circuit? I
> want
> the Tx to cover any HF band (I'll use plug-in coils). TIA.
>
>
>
>
>

From -4738887416324505411
X-Google-Thread: fc2a5,1ea3b24de0c2398,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!newssvr13.news.prodigy.net.POSTED!2eb4dde1!not-for-mail
Reply-To: "Sbc News" <Andy@Hardy.com>
From: "Sbc News" <Andy@Hardy.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Millivac Probe Help, Please.
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <b2lQj.570$1b7.336@newssvr13.news.prodigy.net>
NNTP-Posting-Host: 69.11.245.137
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr13.news.prodigy.net 1209130247 ST000 69.11.245.137 (Fri, 25 Apr 2008 09:30:47 EDT)
NNTP-Posting-Date: Fri, 25 Apr 2008 09:30:47 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:

[[PGW\OEZRRAS_H]]RKB_UDAZZ\DPCPDLXUNNHDK@YUDUWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
TINTDDMVW[X\THOPXZRVOCJTUTPC_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Fri, 25 Apr 2008 13:30:47 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15538

I have a Millivac RF voltmeter, MV-723B, and I am looking for a probe,
and/or a schematic of the probe and meter.
Your help would be appreciated. w9nm at sbcglobal dot net

Thanks,
Emil
W9NM

From -4540652455103011856
X-Google-Thread: fc2a5,1ac57038c25a561b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!26g2000hsk.googlegroups.com!not-for-mail
From: Mike Silva <snarflemike@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Can anyone point me to an appropriate solid-state exciter circuit
for my 2E26?
Date: Fri, 25 Apr 2008 09:05:38 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <7e7f3ce2-4804-4e7f-a982-ef2dcfd17984@26g2000hsk.googlegroups.com>
References: <66u08mF1soskqU1@mid.individual.net>
<jPOdnbw9A91xMIzVnZ2dnUVZ_qOknZ2d@comcast.com>
NNTP-Posting-Host: 71.51.178.124
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1209139538 15845 127.0.0.1 (25 Apr 2008 16:05:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 25 Apr 2008 16:05:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 26g2000hsk.googlegroups.com; posting-host=71.51.178.124;
posting-account=QgO_5wkAAACZKtAvkb3f1VNDm9C58qLr
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1;
.NET CLR 2.0.50727; .NET CLR 3.0.04506; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15539

On Apr 25, 6:09=A0am, "CP" <some...@nospam.com> wrote:
> If the 2E26 is operating class C, I think you'll have a problem generating=

> enough voltage swing at the 2E26 grid unless you use tuned circuits to ste=

```
p
> up the SS drive circuit's output. I have kinda similar set up, DDS VFO
> drives SS broadband chain drives (1:4 stepup here) 6CL6 (tuned circuit her=
e)
> drives 6146.
> Bob
> kb8tl

Right.  The 2E26 needs about 80-120V pk-pk on the grid (depending on
plate voltage and power output), at a couple hundred mW.

Mike



From 7412888978907418815
X-Google-Thread: fc2a5,30071a8b97143872
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!
newsfeed.news.ucla.edu!ucdavis!not-for-mail
From: Skipp <spamsomeoneelseplease@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Grid circuits for RF power amplifiers
Date: Fri, 25 Apr 2008 18:18:42 +0000 (UTC)
Organization: University of California, Davis
Lines: 16
Sender: Skipp May <skipp@vici.ucdavis.edu>
Message-ID: <fut7a2$fh4$1@skeeter.ucdavis.edu>
References: <673s8qF2mied6U1@mid.individual.net>
<IqydnSRh2vVQUZHVnZ2dnUVZ_qHinZ2d@web-ster.com>
<5ridnaE5x6aZiZDVnZ2dnUVZ8tGqnZ2d@pipex.net> <675nm6F2j29o7U1@mid.individual.net>
NNTP-Posting-Host: vici.ucdavis.edu
X-Trace: skeeter.ucdavis.edu 1209147522 15908 128.120.47.43 (25 Apr 2008 18:18:42
GMT)
X-Complaints-To: usenet@ucdavis.edu
NNTP-Posting-Date: Fri, 25 Apr 2008 18:18:42 +0000 (UTC)
User-Agent: tin/1.4.7-20030322 ("Suggestions") (UNIX) (SunOS/5.8 (sun4u))
Xref: g2news1.google.com rec.radio.amateur.homebrew:15540

Yep, come on over to the yahoo rf amplifiers group and we'll try to
help you out...

http://groups.yahoo.com/group/rfamplifiers/

cheers,
s.

: Richard <nearlynews_email@ntlworld.com> wrote:
: I see that EI9GC uses passive grid in his PA.

: http://homepage.eircom.net/~ei9gq/amp.html

: Also, I just discover the RF Amplifiers group at Yahoo. Will join that.
```

: http://groups.yahoo.com/group/rfamplifiers/

```
From -5326615200702577439
X-Google-Thread: fc2a5,1ac57038c25a561b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: "Richard" <nearlynews_email@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Can anyone point me to an appropriate solid-state  exciter circuit
for my 2E26?
Date: Fri, 25 Apr 2008 23:42:14 +0100
Lines: 39
Message-ID: <67f52kF2p3e4hU1@mid.individual.net>
References: <66u08mF1soskqU1@mid.individual.net>
<jPOdnbw9A91xMIzVnZ2dnUVZ_qOknZ2d@comcast.com>
Mime-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Trace: individual.net 1sObWceHrXYhMK3bccLWjw6EPEO7wjNWYwcNa9Lnw0WmFJxNvD
Cancel-Lock: sha1:VLiRQrbFCtTr2XVs/92BfYZ2P7Y=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Xref: g2news1.google.com rec.radio.amateur.homebrew:15541
```

Aaah, I see. If I try to use passive grid input circuit how am I going to get the required voltage swing on the grid which could be in the order of 80-120V pk-pk? Noted thanks.

"CP" <someone@nospam.com> wrote in message
news:jPOdnbw9A91xMIzVnZ2dnUVZ_qOknZ2d@comcast.com...

> If the 2E26 is operating class C, I think you'll have a problem generating
> enough voltage swing at the 2E26 grid unless you use tuned circuits to
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> VFO drives SS broadband chain drives (1:4 stepup here) 6CL6 (tuned circuit
> here) drives 6146.
> Bob
> kb8tl
>
>
> "Richard" <nearlynews_email@ntlworld.com> wrote in message
> news:66u08mF1soskqU1@mid.individual.net...
>>I want to homebrew a crystal controlled (or VXO) CW Tx, (capable of

```
>>break-in
>> operation) that employs a 2E26 tube in the PA. With ICAS operation I can
>> get
>> 27 watts of RF out with a driving power of 0.17 wattts (according to my
>> RCA
>> sheet). I want most of my "design" efforts and interest  to centre around
>> the PA stage. I think I could cope with that at least.
>>
>> Can anyone please point me to a suitable solid-state exciter circuit? I
>> want
>> the Tx to cover any HF band (I'll use plug-in coils). TIA.
>>
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>>
>>
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>
>
```

```
From 3256702658420063292
X-Google-Thread: fc2a5,1ac57038c25a561b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
k13g2000hse.googlegroups.com!not-for-mail
From: Mike Silva <snarflemike@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Can anyone point me to an appropriate solid-state exciter circuit
     for my 2E26?
Date: Sat, 26 Apr 2008 12:50:25 -0700 (PDT)
Organization: http://groups.google.com
Lines: 24
Message-ID: <813ec1c2-fb4a-43f0-ac03-47e705fa6b9a@k13g2000hse.googlegroups.com>
References: <66u08mF1soskqU1@mid.individual.net>
<jPOdnbw9A91xMIzVnZ2dnUVZ_qOknZ2d@comcast.com>
     <67f52kF2p3e4hU1@mid.individual.net>
NNTP-Posting-Host: 71.51.178.124
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1209239426 26767 127.0.0.1 (26 Apr 2008 19:50:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 26 Apr 2008 19:50:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: k13g2000hse.googlegroups.com; posting-host=71.51.178.124;
     posting-account=QgO_5wkAAACZKtAvkb3f1VNDm9C58qLr
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; PPC Mac OS X; en)
     AppleWebKit/419.2 (KHTML, like Gecko) Safari/419.3,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15542
```

On Apr 25, 6:42=A0pm, "Richard" <nearlynews_em...@ntlworld.com> wrote:

> Aaah, I see. If I try to use passive grid input circuit how am I going to
> get the required voltage swing on the grid which could be in the order of
> 80-120V pk-pk? Noted thanks.

I imagine that's why the hybrid rigs of the past that used tube finals also used a tube driver like a 6CL6 or 12BY7. Just easier to get the required voltage with a tube, and they had the HV anyway for the finals. You can certainly get on the air with a two-tube rig - all the handbooks of the era had them. If you want to rethink a tube oscillator/driver here are some good tube choices

6AG7
6CL6
5763
6AH6
6AC7
12BY7 (expensive!)

You should also consider joining the glowbugs email list, where ham radio tube homebrew is king. Google should pull up the info to sign up. They will definitely get you on the air.

Mike

From -8762683565689603910
X-Google-Thread: fc2a5,106873d236dd19a0
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!news-
in-02.newsfeed.easynews.com!easynews.com!easynews!hwmnpeer01.phx!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe23.lga.POSTED!53ab2750!not-for-mail
From: Dino Papas <kl0s@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: New Sabin (W0IYH) Book
References: <Y0JOj.128637$yE1.84159@attbi_s21>
<480b62f0$0$12921$4c368faf@roadrunner.com> <52LOj.75136$TT4.44404@attbi_s22>
<Yw4Pj.58179$pm2.4818@en-nntp-04.dc1.easynews.com>
User-Agent: MT-NewsWatcher/3.5.2 (PPC Mac OS X)
Message-ID: <kl0s-874A9D.10104927042008@news.lga.highwinds-media.com>
Lines: 12
NNTP-Posting-Host: 68.0.34.32
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe23.lga 1209305449 68.0.34.32 (Sun, 27 Apr 2008 07:10:49 MST)
NNTP-Posting-Date: Sun, 27 Apr 2008 07:10:49 MST
Organization: Cox
Date: Sun, 27 Apr 2008 10:10:49 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:15543

And if you look at the larger booksellers online you can buy the book for a significantly lower price....at Barnes & Noble for instance if you're a member (and if you buy a lot of books/DVDs I don't know how you can afford not to be) the volume runs around $90 with free shipping. Looks like it's $90 on Amazon.com as well.

Haven't had a chance to take a look yet but from the TOC looks like a good read....have added to my "gonna buy' list.

Congrats Bill....

73 -- Dino KL0S/4

From 3977076917537677829
X-Google-Thread: fc2a5,106873d236dd19a0
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: "William E. Sabin" <w.sabin@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <Y0JOj.128637$yE1.84159@attbi_s21> <480b62f0$0$12921$4c368faf@roadrunner.com> <52LOj.75136$TT4.44404@attbi_s22> <Yw4Pj.58179$pm2.4818@en-nntp-04.dc1.easynews.com> <kl0s-874A9D.10104927042008@news.lga.highwinds-media.com>
Subject: Re: New Sabin (W0IYH) Book
Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <Hz4Rj.85307$TT4.34240@attbi_s22>
NNTP-Posting-Host: 12.217.190.47
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1209324903 12.217.190.47 (Sun, 27 Apr 2008 19:35:03 GMT)
NNTP-Posting-Date: Sun, 27 Apr 2008 19:35:03 GMT
Organization: AT&T ASP.att.net
Date: Sun, 27 Apr 2008 19:35:03 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15544

Wherever you buy it and whatever you pay for it, be SURE ahead of time that it INCLUDES the Mathcad disk. That disk is very excellent and valuable, very far beyond the price that is being charged.

Bill W0IYH

"Dino Papas" <kl0s@cox.net> wrote in message news:kl0s-874A9D.10104927042008@news.lga.highwinds-media.com...
> And if you look at the larger booksellers online you can buy the book
> for a significantly lower price....at Barnes & Noble for instance if
> you're a member (and if you buy a lot of books/DVDs I don't know how you
> can afford not to be) the volume runs around $90 with free shipping.

> Looks like it's $90 on Amazon.com as well.
>
> Haven't had a chance to take a look yet but from the TOC looks like a
> good read....have added to my "gonna buy' list.
>
> Congrats Bill....
>
> 73 -- Dino KL0S/4

```
From -6781459767540201550
X-Google-Thread: fc2a5,1e5f463c9ceb107e,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews9.bellsouth.net.POSTED!aba369ab!
not-for-mail
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.12 (Windows/20080213)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Suggestions for a PIC for a one time project.
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 39
Message-ID: <YB5Rj.55753$Q52.26207@bignews9.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
okjdhlmeenidhihjdbdpiflmbcekedmfhojhikkbagflhcboofhbofgbokghfpdjfgbjfmcjiplkjmhnpd
kkniakbmhaegdaenhcokpdiifknenhdgpfbobilchpkeakjocpoigjghcoihmglkjlgmfbaaocijkc
NNTP-Posting-Date: Sun, 27 Apr 2008 16:45:44 EDT
Organization: BellSouth Internet Group
Date: Sun, 27 Apr 2008 16:47:05 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:15545
```

I have a project I would like to build, and this would be for me a first time PIC controller project.

I am looking for a PIC to do the following:

1. Address 17 parallel binary weighted bits (need at least 17 I/O's in addition to inputs from (2) below and outputs for LCD (3) below.
2. Have a keypad or rotary encoder to select combinations of the above bits.
3. An LCD display of a frequency generated by the PLL device attached to it per instructions below in (4).
4. Be able to enter a frequency such as 2300.6375 MHz, and do the math to subtract an IF frequency and divide the resultant frequency by some multiplier to address the parallel bits.

The PIC should be available with an evaluation board containing an LCD
display a keypad or rotary encoder. I do not want to have to design a
circuit board for a one time project.

For background, I have a Scientific Atlanta synthesizer that is designed
to generate a frequency in the range of 100.2x to 110.7x MHz to phase
lock a microwave brick oscillator used for a C band satellite up and
downconvertor. The unit has an external BCD switch which is designed to
display 3200.XX to 4200.XX MHz and I wish to re purpose it for a
different frequency band.

Any recommendations?

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From -8328933394072857265
X-Google-Thread: fc2a5,1e5f463c9ceb107e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!news-in-02.newsfeed.easynews.com!easynews.com!easynews!hwmnpeer01.phx!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe02.lga.POSTED!53ab2750!not-for-mail
From: sdeyoreo@hotmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Suggestions for a PIC for a one time project.
Message-ID: <116a149juv8jts080fhtvpbp9g4bpimcjq@4ax.com>
References: <YB5Rj.55753$Q52.26207@bignews9.bellsouth.net>
X-Newsreader: Forte Free Agent 2.0/32.640
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 38
NNTP-Posting-Host: gmpeghklegopkakkajoiogjcligameah
X-Complaints-To: abuse@charter.net
X-Trace: pdjoodfomhkjcoobgmoeimofopipoaimjeafiadgidnkgneggmpeghklegopkakkdmmhgcfmdnpifhaopgnjkjoboahomebjpfmjglinenflnaokkdeccafmmmljckmcgmigicagmhckjgnm
NNTP-Posting-Date: Sun, 27 Apr 2008 16:17:31 MST
Date: Sun, 27 Apr 2008 19:22:04 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:15546

On Sun, 27 Apr 2008 16:47:05 -0400, RFI-EMI-GUY
<Rhyolite@NETTALLY.COM> wrote:

>
>I have a project I would like to build, and this would be for me a first
>time PIC controller project.
>
>I am looking for a PIC to do the following:
>
>1. Address 17 parallel binary weighted bits (need at least 17 I/O's in
>addition to inputs from (2) below and outputs for LCD (3) below.
>2. Have a keypad or rotary encoder to select combinations of the above bits.
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>4. Be able to enter a frequency such as 2300.6375 MHz, and do the math
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>multiplier to address the parallel bits.
>
>The PIC should be available with an evaluation board containing an LCD
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>
>For background, I have a Scientific Atlanta synthesizer that is designed
>   to generate a frequency in the range of 100.2x to 110.7x MHz to phase
>lock a microwave brick oscillator used for a C band satellite up and
>downconvertor. The unit has an external BCD switch which is designed to
> display 3200.XX to 4200.XX MHz and I wish to re purpose it for a
>different frequency band.
>
>Any recommendations?

This PIC, PIC18F85J90, from Microchip should do it. Here's it's demo
board:
http://www.microchip.com/stellent/idcplg?
IdcService=SS_GET_PAGE&nodeId=1406&dDocName=en530757

Here's the PIC:
http://www.microchip.com/stellent/idcplg?
IdcService=SS_GET_PAGE&nodeId=1335&dDocName=en026342

MicroChip's IDE, MPLAB and compilier C18 are free from their site.

From 2717760592782905287
X-Google-Thread: fc2a5,1e5f463c9ceb107e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!
news.bellsouth.net!hwmnpeer01.phx!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe02.lga.POSTED!53ab2750!not-for-mail
From: sdeyoreo@hotmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Suggestions for a PIC for a one time project.
Message-ID: <o56a14tblivqh7sre21vokp23co2t2cdvo@4ax.com>

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References: <YB5Rj.55753$Q52.26207@bignews9.bellsouth.net>
X-Newsreader: Forte Free Agent 2.0/32.640
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 31
NNTP-Posting-Host: gmpeghklegopkakkajoiogjcligameah
X-Complaints-To: abuse@charter.net
X-Trace:
pdjoodfomhkjcoobgmoeimofopipoaimnhpplnlbhhojiccagmpeghklegopkakkdmmhgcfmdnpifhaopg
njkjoboahomebjpfmjglinenflnaokdbdcbkknlhphbidigmigicagmhckjgnm
NNTP-Posting-Date: Sun, 27 Apr 2008 16:17:48 MST
Date: Sun, 27 Apr 2008 19:22:21 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:15547

On Sun, 27 Apr 2008 16:47:05 -0400, RFI-EMI-GUY
<Rhyolite@NETTALLY.COM> wrote:

>
>I have a project I would like to build, and this would be for me a first
>time PIC controller project.
>
>I am looking for a PIC to do the following:
>
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>2. Have a keypad or rotary encoder to select combinations of the above bits.
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>4. Be able to enter a frequency such as 2300.6375 MHz, and do the math
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>
>The PIC should be available with an evaluation board containing an LCD
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>
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>   to generate a frequency in the range of 100.2x to 110.7x MHz to phase
>lock a microwave brick oscillator used for a C band satellite up and
>downconvertor. The unit has an external BCD switch which is designed to
>  display 3200.XX to 4200.XX MHz and I wish to re purpose it for a
>different frequency band.
>
>Any recommendations?



From 8946779948340793474
X-Google-Thread: fc2a5,fb30d88847dcc9c7,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l64g2000hse.googlegroups.com!not-for-
```

mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Toroid inductor distortion
Date: Mon, 28 Apr 2008 14:49:00 -0700 (PDT)
Organization: http://groups.google.com
Lines: 41
Message-ID: <f6031172-ef5e-434e-a80f-25ff508a718a@l64g2000hse.googlegroups.com>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1209419341 22834 127.0.0.1 (28 Apr 2008 21:49:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 28 Apr 2008 21:49:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l64g2000hse.googlegroups.com; posting-host=192.25.142.225;
posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.14)
Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15548

I have an interest in making RF filters with low distortion (for example, as preselection filters for receivers). I've found that very often I need to use air-core coils to get the low distortion I want, but it would be convenient if I could use powdered iron or ferrite core toroids to get higher Q at low frequencies without having to make the coils physically big. I've always assumed that powdered iron would give me the best results, but someone suggested I try low-permeability ferrite. I just did some experiments with that. I wound three toroids, all 0.37 inch OD cores; one is on mix 2 powdered iron, and the other two are on type 68 and type 67 ferrite. I put each coil in a simple 1MHz high pass filter: two 2.2nF caps in series, with the coil connected between them to ground. I tested for harmonic distortion with a 1MHz input, and for the 2.42MHz intermod product with 0.62MHz and 1.52Mhz inputs.

With about +16dBm coming out of the test filter at 1MHz, I measured second harmonic at about -95dBc for the T37-2, -90dBc for the FT37-67 and -57 for the FT37-68; the third was at -74dBc, -61dBc and -51dBc for the three coils in the same order.

The 2.42MHz intermod, with each tone at +18.5dBm out of the combiner, measured -71dBc, -58dBc and -38dBc for the coils, again in the same order.

My conclusion from this is that at least these two ferrites aren't going to help me in my search for a better low-distortion core material, but at the same time, it was interesting to note that the higher permeability -67 performed better by far than the lower permeability -68. It gives me some hope that if the ferrite materials guys went looking for a formulation that would be specifically as low-distortion as they could get, they might find something pretty good.

Before someone asks, no, I didn't run a T37-6 core coil along with
these. I expect it would be a little better than the T37-2. And I've
measured a few coils wound on (unknown formulation) powdered iron rods
that show significantly lower distortion than those on toroid cores;
but of course those have a large "air gap" and relatively high
external field.

Cheers,
Tom

```
From 4896403407858368444
X-Google-Thread: fc2a5,1e5f463c9ceb107e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!npeer01.iad!news.highwinds-media.com!
news.glorb.com!bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews3.bellsouth.net.POSTED!aba369ab!not-for-mail
Message-ID: <48164B3D.3070009@NETTALLY.COM>
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.12 (Windows/20080213)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Suggestions for a PIC for a one time project.
References: <YB5Rj.55753$Q52.26207@bignews9.bellsouth.net>
<116a149juv8jts080fhtvpbp9g4bpimcjq@4ax.com>
In-Reply-To: <116a149juv8jts080fhtvpbp9g4bpimcjq@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 50
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcboaoaehlfikagpihbgfgbjfmcjiplkjmhnpd
kkniakbmhaegdakblahielgmpocbjfapooffajmnbeopcanlgclhebhbbhggdclpmoenljlcafhlni
NNTP-Posting-Date: Mon, 28 Apr 2008 18:09:14 EDT
Organization: BellSouth Internet Group
Date: Mon, 28 Apr 2008 18:10:05 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:15549
```

sdeyoreo@hotmail.com wrote:
> On Sun, 27 Apr 2008 16:47:05 -0400, RFI-EMI-GUY
> <Rhyolite@NETTALLY.COM> wrote:
>
>> I have a project I would like to build, and this would be for me a first
>> time PIC controller project.
>>
>> I am looking for a PIC to do the following:
>>
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>> addition to inputs from (2) below and outputs for LCD (3) below.

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>> multiplier to address the parallel bits.
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>>
>> For background, I have a Scientific Atlanta synthesizer that is designed
>>   to generate a frequency in the range of 100.2x to 110.7x MHz to phase
>> lock a microwave brick oscillator used for a C band satellite up and
>> downconvertor. The unit has an external BCD switch which is designed to
>> display 3200.XX to 4200.XX MHz and I wish to re purpose it for a
>> different frequency band.
>>
>> Any recommendations?
> This PIC, PIC18F85J90, from Microchip should do it. Here's it's demo
> board:
> http://www.microchip.com/stellent/idcplg?
IdcService=SS_GET_PAGE&nodeId=1406&dDocName=en530757
>
> Here's the PIC:
> http://www.microchip.com/stellent/idcplg?
IdcService=SS_GET_PAGE&nodeId=1335&dDocName=en026342
>
> MicroChip's IDE, MPLAB and compilier C18 are free from their site.

Thanks; It has a great looking display. No keypad or shaft encoder
though, I hope I can figure out what I need to interface those.

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From 7162880200282063763
X-Google-Thread: fc2a5,fb30d88847dcc9c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-
mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <f6031172-ef5e-434e-a80f-25ff508a718a@l64g2000hse.googlegroups.com>

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Subject: Re: Toroid inductor distortion
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <eWtRj.87030$TT4.49621@attbi_s22>
NNTP-Posting-Host: 12.219.130.17
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1209428746 12.219.130.17 (Tue, 29 Apr 2008 00:25:46 GMT)
NNTP-Posting-Date: Tue, 29 Apr 2008 00:25:46 GMT
Organization: AT&T ASP.att.net
Date: Tue, 29 Apr 2008 00:25:46 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15550

Good info Tom, I'd like you to try -61 material, but I don't have anything
but T50 in that ferrite.

W4ZCB

>I have an interest in making RF filters with low distortion (for
> example, as preselection filters for receivers).  I've found that very
> often I need to use air-core coils to get the low distortion I want,
> but it would be convenient if I could use powdered iron or ferrite
> core toroids to get higher Q at low frequencies without having to make
> the coils physically big.




From 880721765170606185
X-Google-Thread: fc2a5,1e5f463c9ceb107e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!news.astraweb.com!
border2.a.newsrouter.astraweb.com!hwmnpeer01.ams!hwmnpeer01.lga!news.highwinds-
media.com!hw-filter.lga!newsfe05.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <YB5Rj.55753$Q52.26207@bignews9.bellsouth.net>
Subject: Re: Suggestions for a PIC for a one time project.
Lines: 64
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <LxuRj.3471$fn.2514@newsfe05.lga>
NNTP-Posting-Host: lcecbhddceddjnpchhgnkcjkhihlplce
X-Complaints-To: abuse@charter.net
X-Trace:
```

dbkajaeeceiapgbcgmoeimofopipoaimeiefaigpmeonjcchlcecbhddceddjnpcoeoaopladikgjgpfbe
cbjdochefeddajjdalollpoehomolpghpmbnanoolegiabhfgdhgbgadeblehn
NNTP-Posting-Date: Mon, 28 Apr 2008 18:07:55 MST
Date: Mon, 28 Apr 2008 20:58:25 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:15551

If size is not an issue, consider Microchip's Explorer 16 board. No encoder or keyboard, but the PIC has a zillion pins all brought out to card edge connectors. Microchip has very nice proto boards at a reasonable price you could use to connect the encoder, keyboard and synthesizer. The board includes a 2x16 display, as well as serial and USB interfaces. The Explorer 16 comes with a couple of PICs, both huge things with gobs of memory so you can do the programming in C and not be constantly looking over your shoulder. The "Student Edition" of the C30 compiler is free.

If money is no object, they have a thing they call the "Graphics PICtail" that plugs into the Explorer 16 which is a quarter-VGA with a touchscreen, and their graphics library implements a very credible encoder on the touch screen. They also have a numeric kepad on the touch screen, the screen is really too small for a full keyboard.

Since you seem to have decided on a PIC, I assume you have a ICD 2, PICkit 2 or something of that ilk for programming.

..

"RFI-EMI-GUY" <Rhyolite@NETTALLY.COM> wrote in message
news:YB5Rj.55753$Q52.26207@bignews9.bellsouth.net...

> I have a project I would like to build, and this would be for me a first time PIC controller project.
>
> I am looking for a PIC to do the following:
>
> 1. Address 17 parallel binary weighted bits (need at least 17 I/O's in addition to inputs from (2) below and outputs for LCD (3) below.
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```
> different frequency band.
>
> Any recommendations?
>
>
>
>
> --
> Joe Leikhim K4SAT
> "The RFI-EMI-GUY"�
>
> "Treason doth never prosper: what's the reason?
> For if it prosper, none dare call it treason."
>
> "Follow The Money"  ;-P
```

```
From 8758626691169943721
X-Google-Thread: fc2a5,fb30d88847dcc9c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.cpinternet!
news.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 29 Apr 2008 08:17:29 -0500
Date: Tue, 29 Apr 2008 08:17:36 -0500
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Toroid inductor distortion
References: <f6031172-ef5e-434e-a80f-25ff508a718a@l64g2000hse.googlegroups.com>
In-Reply-To: <f6031172-ef5e-434e-a80f-25ff508a718a@l64g2000hse.googlegroups.com>
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Content-Transfer-Encoding: 7bit
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Lines: 12
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NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-UiAWarQoo2PsZYG3E3cn29fEDX0at+ni8jqyee7lqxbu8xWIFeBtWYMpfsE0aCgc1V/
cbfWgyU5oc6Q!
494hv9RiLQCUb6zA2DXBG5BaoLzST7FhaETYBp1LlUhRtbeO5sUA+nB0Z11aVgAW5fySk+F1AVyA!
6zE+yMy/C+Nm
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
```

```
Xref: g2news1.google.com rec.radio.amateur.homebrew:15552

K7ITM wrote:

<snip>
> I wound three toroids, all 0.37 inch OD cores; one is on mix 2 powdered iron,
> and the other  two are on type 68 and type 67 ferrite.

<snip>

How do you determine the formulation of the cores that you use (I am
presuming they are taken from the junk box...)?

Michael



From -1092898206614O8129
X-Google-Thread: fc2a5,1e5f463c9ceb107e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out02a.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-
in-02.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-
nntp-05.dc1.easynews.com.POSTED!not-for-mail
From: John Ferrell <johnferrell@sprintmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Suggestions for a PIC for a one time project.
Message-ID: <et7e14dhgpg5oog1gdvskoik5pj7agcepa@4ax.com>
References: <YB5Rj.55753$Q52.26207@bignews9.bellsouth.net>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 22
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Tue, 29 Apr 2008 09:24:33 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:15553

On Sun, 27 Apr 2008 16:47:05 -0400, RFI-EMI-GUY
<Rhyolite@NETTALLY.COM> wrote:

>
>I have a project I would like to build, and this would be for me a first
>time PIC controller project.
>
>I am looking for a PIC to do the following:
Take a look at the http://www.mikroe.com/en/tools/easypic5/
You will probably need to upgrade the CPU but you have a lot of work
in front of you before you get that far.
```

I use the Pascal compiler but I expect the C and Basic versions are
just as good. The on board programmer will handle the output from
MPLAB but not as convenient as the mikro compilers.

FWIW, that is an ambitious first project....

John Ferrell W8CCW
Beware of the dopeler effect (pronounced dope-ler).
That's where bad ideas seem good if they come at you
fast enough.

From -2253620683123596127
X-Google-Thread: fc2a5,fb30d88847dcc9c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y21g2000hsf.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Toroid inductor distortion
Date: Tue, 29 Apr 2008 07:52:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 39
Message-ID: <a2f76740-2fce-4011-bd0c-deecabc79c04@y21g2000hsf.googlegroups.com>
References: <f6031172-ef5e-434e-a80f-25ff508a718a@l64g2000hse.googlegroups.com>
     <AdCdneO5_KZ0gorVnZ2dnUVZ_v-hnZ2d@cpinternet>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1209480760 17582 127.0.0.1 (29 Apr 2008 14:52:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 29 Apr 2008 14:52:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y21g2000hsf.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15554

On Apr 29, 6:17 am, msg <msg@_cybertheque.org_> wrote:
> K7ITM wrote:
>
> <snip>
>
> > I wound three toroids, all 0.37 inch OD cores; one is on mix 2 powdered iron,
> > and the other two are on type 68 and type 67 ferrite.
>
> <snip>
>
> How do you determine the formulation of the cores that you use (I am

> presuming they are taken from the junk box...)?
>
> Michael

Well, I trust places like Amidon and Bytemark to supply what they say... The ferrite toroids were delivered last week from Bytemark. The powdered iron come mostly from old stock we have upstairs, some from ones I've ordered in the past from Amidon. (I have a different batch of cores in front of me right now that I'll try running the same test on. These cover a wider range of formulations, but all in (F)T50 size -- 'cept I couldn't find a T50-6, so I may look for a T37-6 or just run a T68-6A I do have.)

But you bring up a good topic. You can measure the dimensions of a core and figure its relative permeability from the inductance of a coil wound on it, and make a guess about the formulation from that, but short of doing more complicated tests, I don't know that you can really determine the formulation. Powdered iron toroids generally come with a color code paint job, but the ferrite toroids I've always gotten have nothing on them to tell you what they are. I've found that an "extra fine" tipped paint pen is a good way to put a marking on them. You could color-code them, but I just write what they are on them, such as "FT50-67". That's not so important if I keep them nicely sorted, but if I've wound a coil on one and then want to re-use it, it's a big help.

Cheers,
Tom

```
From -5002070334965432099
X-Google-Thread: fc2a5,fb30d88847dcc9c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m73g2000hsh.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Toroid inductor distortion
Date: Tue, 29 Apr 2008 07:57:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 15
Message-ID: <c05dd3c9-4ff3-494b-9bd1-dce779c39933@m73g2000hsh.googlegroups.com>
References: <f6031172-ef5e-434e-a80f-25ff508a718a@l64g2000hse.googlegroups.com>
     <eWtRj.87030$TT4.49621@attbi_s22>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1209481037 18480 127.0.0.1 (29 Apr 2008 14:57:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 29 Apr 2008 14:57:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
```

Injection-Info: m73g2000hsh.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15555

On Apr 28, 5:25 pm, "Harold E. Johnson" <W4...@mchsi.com> wrote:
> Good info Tom, I'd like you to try -61 material, but I don't have anything
> but T50 in that ferrite.

Hi Harold,

Well, I'm curious about -61 too. Turns out I have some FT50-61's (or
so claimed by Baggy Bob...), and I have FT50-67, FT50-68, FT50-43,
T50-1, T50-2, T50-3 and T50-7 to try for comparison. Unfortunately,
we're out of T50-6, but maybe I can arrange a test on a different -6
against the same size -2, at least. Not sure if I'll get to the coil-
winding and testing today, though.

Cheers,
Tom

From 2742778723162626015
X-Google-Thread: fc2a5,fb30d88847dcc9c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-
mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <f6031172-ef5e-434e-a80f-25ff508a718a@l64g2000hse.googlegroups.com>
<eWtRj.87030$TT4.49621@attbi_s22> <c05dd3c9-4ff3-494b-9bd1-
dce779c39933@m73g2000hsh.googlegroups.com>
Subject: Re: Toroid inductor distortion
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <xAHRj.87955$TT4.37991@attbi_s22>
NNTP-Posting-Host: 12.219.130.17
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1209484701 12.219.130.17 (Tue, 29 Apr 2008 15:58:21 GMT)
NNTP-Posting-Date: Tue, 29 Apr 2008 15:58:21 GMT
Organization: AT&T ASP.att.net
Date: Tue, 29 Apr 2008 15:58:21 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15556

> Hi Harold,
>
> Well, I'm curious about -61 too. Turns out I have some FT50-61's (or
> so claimed by Baggy Bob...), and I have FT50-67, FT50-68, FT50-43,
> T50-1, T50-2, T50-3 and T50-7 to try for comparison. Unfortunately,
> we're out of T50-6, but maybe I can arrange a test on a different -6
> against the same size -2, at least. Not sure if I'll get to the coil-
> winding and testing today, though.
>
> Cheers,
> Tom

Well, if you're going to put it off, I can send you a few T50-6's. Probably
some -10 material too. BUT! I want your results when you get them! If you
have them in a filter, would need to know the operating Q as well, but if
just the toroid itself, wonderful to have.

W4ZCB

From 5543367116306040070
X-Google-Thread: fc2a5,fb30d88847dcc9c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!a23g2000hsc.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Toroid inductor distortion
Date: Tue, 29 Apr 2008 10:01:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 50
Message-ID: <d4855c91-b7db-4565-a3c3-70ab9dc3dae1@a23g2000hsc.googlegroups.com>
References: <f6031172-ef5e-434e-a80f-25ff508a718a@l64g2000hse.googlegroups.com>
     <eWtRj.87030$TT4.49621@attbi_s22> <c05dd3c9-4ff3-494b-9bd1-dce779c39933@m73g2000hsh.googlegroups.com>
     <xAHRj.87955$TT4.37991@attbi_s22>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1209488506 10084 127.0.0.1 (29 Apr 2008 17:01:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 29 Apr 2008 17:01:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a23g2000hsc.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15557

On Apr 29, 8:58 am, "Harold E. Johnson" <W4...@mchsi.com> wrote:

> > Hi Harold,
>
> > Well, I'm curious about -61 too. Turns out I have some FT50-61's (or so claimed by Baggy Bob...), and I have FT50-67, FT50-68, FT50-43, T50-1, T50-2, T50-3 and T50-7 to try for comparison. Unfortunately, we're out of T50-6, but maybe I can arrange a test on a different -6 against the same size -2, at least. Not sure if I'll get to the coil-winding and testing today, though.
>
> > Cheers,
> > Tom
>
> Well, if you're going to put it off, I can send you a few T50-6's. Probably some -10 material too. BUT! I want your results when you get them! If you have them in a filter, would need to know the operating Q as well, but if just the toroid itself, wonderful to have.
>
> W4ZCB

Sure, I'll test 'em. I'll go ahead and test what I have, and add the -6 in when I get them. I have the test setup documented well enough that it will be easy to repeat the same tests later. Of course, the test is always with some particular test setup. Even if I just connected the toroid shunt across a 50 ohm line with source at one end and analyzer at the other, it's still a particular environment, and the results will be different if, for example, I add in my 1MHz bandpass filter at the generator output (to kill generator harmonics) and add my 1.5MHz HPF at the analyzer input (to kill the 1MHz so the analyzer can be set to a lower range without contributing significant distortion of its own). Each of those filters changes the source or load impedance. I suppose I could have made diplexing type filters that maintain a constant impedance vs frequency, but these guys are big enough as it is, using high Q air core coils.

Anyway, the particular environment I chose for the coil test is in a simple high-pass filter, nominally third order 0.1dB ripple Chebychev with a 1MHz -3dB point: 2.2nF series, 5uH shunt (coil being tested), 2.2nF series. The distortion products I'm reporting are all 2MHz and above, where the output capacitor passes things with very little attenuation, and the excitation voltage across the inductor for a 1MHz input is about 1.7dB higher than the 50-ohm source indicated output. I suppose I could make the test more interesting by exciting a high circulating current in the inductor, but it seems like if I excite them in the test circuit to where distortion is clearly measurable, the relative results be a good indication of relative performance in other circuits.

Cheers,
Tom

```
From 6693151694221029922
X-Google-Thread: fc2a5,1c8cc5e4f3ec1323,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!r66g2000hsg.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Toroid coil turns calc
Date: Tue, 29 Apr 2008 10:12:46 -0700 (PDT)
Organization: http://groups.google.com
Lines: 25
Message-ID: <305c15ee-5ada-42cc-984b-7b2b433a58ec@r66g2000hsg.googlegroups.com>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1209489167 12047 127.0.0.1 (29 Apr 2008 17:12:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 29 Apr 2008 17:12:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r66g2000hsg.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15558
```

It's easy enough to find the number of turns required for a particular inductance on a known toroid core, but how do you know what size wire to use so that the turns will all fit on a single layer? That's this morning's geometry problem. I suppose you can find formulas, but a quick Google search didn't turn up anything useful for me this morning. What I worked out, that may be of some use to others, is:

Given D = inside diameter of the toroid core, and d = wire diameter, same units, and N = number of turns:

N = integer(pi/arcsin(d/(D-d)) (arcsine in radians...)

d(max) = D*sin(pi/N)/(1+sin(pi/N))

If you want to calculate in degrees, replace pi by 180. To allow for the inevitable little gaps and the wire not hugging the core ID closely, pick a wire with a diameter at least 10% less than d(max).

Also, if you use a smaller wire so the turns can be spread out or bunched together, you'll find that you can significantly adjust the coil's inductance that way, especially with low-mu toroids such as -2 and -6 powdered iron.

Cheers,
Tom

```
From 2166918074484628043
X-Google-Thread: fc2a5,1c8cc5e4f3ec1323
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-
mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <305c15ee-5ada-42cc-984b-7b2b433a58ec@r66g2000hsg.googlegroups.com>
Subject: Re: Toroid coil turns calc
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <7ZJRj.142191$yE1.137769@attbi_s21>
NNTP-Posting-Host: 12.219.130.17
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1209494467 12.219.130.17 (Tue, 29 Apr 2008 18:41:07 GMT)
NNTP-Posting-Date: Tue, 29 Apr 2008 18:41:07 GMT
Organization: AT&T ASP.att.net
Date: Tue, 29 Apr 2008 18:41:07 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15559


"K7ITM" <k7itm@msn.com> wrote in message
news:305c15ee-5ada-42cc-984b-7b2b433a58ec@r66g2000hsg.googlegroups.com...
> It's easy enough to find the number of turns required for a particular
> inductance on a known toroid core, but how do you know what size wire
> to use so that the turns will all fit on a single layer?  That's this
> morning's geometry problem.  I suppose you can find formulas, but a
> quick Google search didn't turn up anything useful for me this
> morning.  What I worked out, that may be of some use to others, is:

Nice, but the software "Mini ring-core calculator" (ver 1.2 free) will do
this for you, as will the Amidon manuals.

W4ZCB




From 5485807204359643064
X-Google-Thread: fc2a5,1c8cc5e4f3ec1323
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w7g2000hsa.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Toroid coil turns calc
Date: Tue, 29 Apr 2008 13:11:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 34
Message-ID: <58fd91e0-f278-4116-95ce-2a87a6621605@w7g2000hsa.googlegroups.com>
References: <305c15ee-5ada-42cc-984b-7b2b433a58ec@r66g2000hsg.googlegroups.com>
     <7ZJRj.142191$yE1.137769@attbi_s21>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1209499876 20492 127.0.0.1 (29 Apr 2008 20:11:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 29 Apr 2008 20:11:16 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w7g2000hsa.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15560
```

On Apr 29, 11:41 am, "Harold E. Johnson" <W4...@mchsi.com> wrote:

> "K7ITM" <k7...@msn.com> wrote in message
>
> news:305c15ee-5ada-42cc-984b-7b2b433a58ec@r66g2000hsg.googlegroups.com...
>
> > It's easy enough to find the number of turns required for a particular
> > inductance on a known toroid core, but how do you know what size wire
> > to use so that the turns will all fit on a single layer? That's this
> > morning's geometry problem. I suppose you can find formulas, but a
> > quick Google search didn't turn up anything useful for me this
> > morning. What I worked out, that may be of some use to others, is:
>
> Nice, but the software "Mini ring-core calculator" (ver 1.2 free) will do
> this for you, as will the Amidon manuals.
>
> W4ZCB

:-) I knew if I posted that, someone would tell me about a nice little calculator. For others who may have trouble finding the mini ring-core calculator, try: http://www.dl5swb.de/html/mini_ring_core_calculator.htm

I did find another somewhat similar calculator as a Java applet, but it seems to get the wire size wrong. The one Harold mentions gets the wire size right, and does a whole lot more. Great to have around if you're winding toroids, and it also does simple solenoid coils and inductance of straight wire. You can even select US units (AWG; inches) or rest of the world units (metric). Nice that it also tells you the length of wire you'll need to wind the coil. Includes a resonance calc and more.

Thanks, Harold!

Cheers,
Tom

From -8690614238323339601
X-Google-Thread: fc2a5,caab67d2e4606ba2,start
X-Google-Thread: 112d1e,caab67d2e4606ba2,start
X-Google-Attributes: gidfc2a5,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
208.49.83.146.MISMATCH!uns-out.usenetserver.com!news.usenetserver.com!
pc02.usenetserver.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Help, Laptop causes FM interference
Date: Tue, 29 Apr 2008 16:55:12 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <eb840$481794c7$450139f0$443@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 20
X-Trace: eb840481794c7e0a49c5500443
Xref: g2news1.google.com rec.radio.amateur.homebrew:15561
sci.electronics.design:337841

I have an undercounter AM, FM radio. When I plug the power supply to my
laptop
into an outlet in the same room, the FM signal gets very noisy. Upon further
investigation, I found that just plugging the ac cord into an outlet and
holding it near the laptop causes the noise. Also holding the laptop near
the power cord of the radio causes the noise. Holding the laptop near the
radio doesn't cause the noise.
So I think the laptop is generating noise that gets induced into the ac
line.
I tried wrapping the radio cord about (ten turns) through a (junkbox)
toroid without any help to the problem. The toroid is 3" in dia. It's
probably an iron laminate core
(low frequency) so may not be right for filtering the ac line.
My next step is to go to Radio Shack and try to purchase some clamshell
type
line filters.
Any ideas to eliminate this noise from the ac line?
Mike

```
From -8770445446869146511
X-Google-Thread: fc2a5,caab67d2e4606ba2
X-Google-Thread: 112d1e,caab67d2e4606ba2
X-Google-Attributes: gidfc2a5,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 29 Apr 2008 17:27:32 -0500
From: "Charles" <charlesschuler@comcast.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <eb840$481794c7$450139f0$443@KNOLOGY.NET>
Subject: Re: Help, Laptop causes FM interference
Date: Tue, 29 Apr 2008 18:27:29 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-NewsProxy: 1.2.4
Message-ID: <qvydnTTQBNdJPYrVnZ2dnUVZ_rmjnZ2d@comcast.com>
Lines: 28
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NNTP-Posting-Host: 76.101.192.190
X-Trace: sv3-6eCzJbBP7vzpT64Fnk8QNYv36LpOs3Rkmyw6Bxh9cXogbt3XMLKLgFaEMvcMTAd/
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:15562
sci.electronics.design:337844
```

"amdx" <amdx@knology.net> wrote in message
news:eb840$481794c7$450139f0$443@KNOLOGY.NET...

>I have an undercounter AM, FM radio. When I plug the power supply to my
>laptop
> into an outlet in the same room, the FM signal gets very noisy. Upon
> further investigation, I found that just plugging the ac cord into an
> outlet and holding it near the laptop causes the noise. Also holding the
> laptop near the power cord of the radio causes the noise. Holding the
> laptop near the radio doesn't cause the noise.
> So I think the laptop is generating noise that gets induced into the ac
> line.
> I tried wrapping the radio cord about (ten turns) through a (junkbox)
> toroid without any help to the problem. The toroid is 3" in dia. It's

> probably an iron laminate core
> (low frequency) so may not be right for filtering the ac line.
> My next step is to go to Radio Shack and try to purchase some clamshell
> type
> line filters.
>   Any ideas to eliminate this noise from the ac line?
>   Mike

Switch-mode power supplies are dirty ... lots of harmonic energy. The interference is both radiated and sent back into the ac mains. A line filter plus physical separation are the things to try.

```
From -2085048535683694710
X-Google-Thread: fc2a5,caab67d2e4606ba2
X-Google-Thread: 112d1e,caab67d2e4606ba2
X-Google-Attributes: gidfc2a5,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!
newsfeed.freenet.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: "Phil Allison" <philallison@tpg.com.au>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Help, Laptop causes FM interference
Date: Wed, 30 Apr 2008 10:08:20 +1000
Lines: 18
Message-ID: <67prjeF2qap6tU1@mid.individual.net>
References: <eb840$481794c7$450139f0$443@KNOLOGY.NET>
<qvydnTTQBNdJPYrVnZ2dnUVZ_rmjnZ2d@comcast.com>
X-Trace: individual.net 0syN0SDonvRmd4iPFlaKaACI09n2d7zOvDyTCxURtRKj0pE8EZ
Cancel-Lock: sha1:oc+OI46bXB3UJbn1vhVuBcrgSqA=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Xref: g2news1.google.com rec.radio.amateur.homebrew:15563
sci.electronics.design:337857
```

"Charles"

>
> Switch-mode power supplies are dirty ... lots of harmonic energy. The
> interference is both radiated and sent back into the ac mains.

 ** But they don't usually generate energy in the FM broadcast band (i.e. 88 - 108 MHz) -   that is more likely to be due to the CPU and associated high speed circuits inside the PC.

...... Phil

From 8880908865356313872
X-Google-Thread: fc2a5,caab67d2e4606ba2
X-Google-Thread: 112d1e,caab67d2e4606ba2
X-Google-Attributes: gidfc2a5,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!y38g2000hsy.googlegroups.com!not-for-mail
From: Simon S Aysdie <gwhite@ti.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Help, Laptop causes FM interference
Date: Tue, 29 Apr 2008 17:43:44 -0700 (PDT)
Organization: http://groups.google.com
Lines: 45
Message-ID: <d5b427a6-c8e4-4974-8ac9-8ad32205ad46@y38g2000hsy.googlegroups.com>
References: <eb840$481794c7$450139f0$443@KNOLOGY.NET>
<qvydnTTQBNdJPYrVnZ2dnUVZ_rmjnZ2d@comcast.com>
NNTP-Posting-Host: 99.169.128.173
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1209516224 31231 127.0.0.1 (30 Apr 2008 00:43:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 30 Apr 2008 00:43:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y38g2000hsy.googlegroups.com; posting-host=99.169.128.173;
     posting-account=rQm47goAAABYlaioc-h9clf7bILLDFxH
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15564
sci.electronics.design:337862

On Apr 29, 3:27=A0pm, "Charles" <charlesschu...@comcast.net> wrote:
> "amdx" <a...@knology.net> wrote in message
>
> news:eb840$481794c7$450139f0$443@KNOLOGY.NET...
>
>
>
>
>
> >I have an undercounter AM, FM radio. When I plug the power supply to my
> >laptop
> > into an outlet in the same room, the FM signal gets very noisy. Upon
> > further investigation, I found that just plugging the ac cord into an
> > outlet and holding it near the laptop causes the noise. Also holding the=

```
> > laptop near the power cord of the radio causes the noise. Holding the
> > laptop near the radio doesn't cause the noise.
> > So I think the laptop is generating noise that gets induced into the ac
> > line.
> > I tried wrapping the radio cord about (ten turns) through a (junkbox)
> > toroid without any help to the problem. The toroid is 3" in dia. It's
> > probably an iron laminate core
> > (low frequency) so may not be right for filtering the ac line.
> > =A0My next step is to go to Radio Shack and try to purchase some clamshe=
ll
> > type
> > line filters.
> > =A0 Any ideas to eliminate this noise from the ac line?
> > =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Mike
>
> Switch-mode power supplies are dirty ... lots of harmonic energy. =A0The
> interference is both radiated and sent back into the ac mains. =A0A line
> filter plus physical separation are the things to try.

Some clocks for digital devices are intentionally "spread spectrum"
since the digital stuff doesn't care.  This helps pass FCC type
acceptance.  Spread spectrum is FM noise.

I remember that IC company IMI used to make SS clocks for digital
stuff.  I wonder what ever happened to them.


http://findarticles.com/p/articles/mi_m0EIN/is_1999_June_28/ai_55000638
http://www.eetindia.co.in/ART_8800487294_1800000_NT_7932edcb.HTM


From -4431826326301689074
X-Google-Thread: fc2a5,caab67d2e4606ba2
X-Google-Thread: 112d1e,caab67d2e4606ba2
X-Google-Attributes: gidfc2a5,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news1.google.com!postnews.google.com!
w7g2000hsa.googlegroups.com!not-for-mail
From: mpm <mpmillard@aol.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Help, Laptop causes FM interference
Date: Tue, 29 Apr 2008 18:23:42 -0700 (PDT)
Organization: http://groups.google.com
Lines: 55
Message-ID: <e155edd9-3b40-410f-acd8-929bfbea9252@w7g2000hsa.googlegroups.com>
References: <eb840$481794c7$450139f0$443@KNOLOGY.NET>
NNTP-Posting-Host: 205.188.117.8
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1209518622 10974 127.0.0.1 (30 Apr 2008 01:23:42 GMT)
```

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 30 Apr 2008 01:23:42 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w7g2000hsa.googlegroups.com; posting-host=205.188.117.8;
     posting-account=VRG5ZAoAAADDx-02qJMvRhs-cogIDLHF
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
     .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.0.6 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-dtc-tc06.proxy.aol.com[CDBC7046] (Prism/1.2.1), HTTP/1.1
     cache-dtc-ae04.proxy.aol.com[CDBC7508] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:15565
sci.electronics.design:337867

On Apr 29, 5:55=EF=BF=BDpm, "amdx" <a...@knology.net> wrote:
> I have an undercounter AM, FM radio. When I plug the power supply to my
> laptop
> into an outlet in the same room, the FM signal gets very noisy. Upon furth=
er
> investigation, I found that just plugging the ac cord into an outlet and
> holding it near the laptop causes the noise. Also holding the laptop near
> the power cord of the radio causes the noise. Holding the laptop near the
> radio doesn't cause the noise.
> =EF=BF=BDSo I think the laptop is generating noise that gets induced into =
the ac
> line.
> =EF=BF=BDI tried wrapping the radio cord about (ten turns) through a (junk=
box)
> toroid without any help to the problem. The toroid is 3" in dia. It's
> probably an iron laminate core
> (low frequency) so may not be right for filtering the ac line.
> =EF=BF=BD My next step is to go to Radio Shack and try to purchase some cl=
amshell
> type
> line filters.
> =EF=BF=BD =EF=BF=BDAny ideas to eliminate this noise from the ac line?
> =EF=BF=BD =EF=BF=BD =EF=BF=BD =EF=BF=BD =EF=BF=BD =EF=BF=BD =EF=BF=BD =EF=
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=BF=BD =EF=BF=BD =EF=BF=BD =EF=BF=BD =EF=BF=BD =EF=BF=BDMike

So, is it conducted noise or radiated noise?
The solutions are different.

If conduted, you can stop it with filters.
If radiated, you can stop it with shielding.
If both, you need both solutions.

It "sounds" to me like the radio is the problem, not the laptop, or
the laptop power supply.
Also, it's likely the weaker the FM station, the more noticable this
could be, depending of course on the type of detector the radio uses.
For AM, the noise could be horrendous!
```

An obvious thing to try: See if you have more than 1 branch circuit available (in the kitchen, I presume??) If so, plug 'em in on separate branches and see if this helps. (Note: Won't solve radiated noise, but might help with conducted - and to me, that seems to be the problem.)

Unless of course, I totally mis-read your post.

You can also do this test with an extention cord from another branch circuit elsewhere in the dwelling. Even though the two branches have at least some components in common, the separation can create enough losses to lower the conducted emissions to acceptable levels.

Good luck.
-mpm

```
From 1616081175139904591
X-Google-Thread: fc2a5,caab67d2e4606ba2
X-Google-Thread: 112d1e,caab67d2e4606ba2
X-Google-Attributes: gidfc2a5,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out03a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!uns-
out.usenetserver.com!news.usenetserver.com!pc03.usenetserver.com!KNOLOGY.NET-
a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <eb840$481794c7$450139f0$443@KNOLOGY.NET>
<qvydnTTQBNdJPYrVnZ2dnUVZ_rmjnZ2d@comcast.com>
<67prjeF2qap6tU1@mid.individual.net>
Subject: Re: Help, Laptop causes FM interference
Date: Tue, 29 Apr 2008 21:40:09 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <24d4e$4817da47$18d6b40c$17841@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 26
X-Trace: 24d4e4817da47bd7311a917841
Xref: g2news1.google.com rec.radio.amateur.homebrew:15566
sci.electronics.design:337880
```

"Phil Allison" <philallison@tpg.com.au> wrote in message news:67prjeF2qap6tU1@mid.individual.net...

>
> "Charles"
>

```
>>
>> Switch-mode power supplies are dirty ... lots of harmonic energy.  The
>> interference is both radiated and sent back into the ac mains.
>
>
> **  But they don't usually generate energy in the FM broadcast band ( i.e.
> 88 - 108 MHz)  -   that is more likely to be due to the CPU and associated
> high speed circuits inside the PC.
>
>
>
>
> ......  Phil
Good call Phil,
  Maybe I didn't say it clearly,  but just plugging the ac cord in and
holding
it near the laptop induces noise on the power line. ( ac cord only, no
switching power supply attached)




From 4643282657690846323
X-Google-Thread: fc2a5,caab67d2e4606ba2
X-Google-Thread: 112d1e,caab67d2e4606ba2
X-Google-Attributes: gidfc2a5,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: "Phil Allison" <philallison@tpg.com.au>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Help, Laptop causes FM interference
Date: Wed, 30 Apr 2008 13:21:39 +1000
Lines: 26
Message-ID: <67q6ttF2qdkn5U1@mid.individual.net>
References: <eb840$481794c7$450139f0$443@KNOLOGY.NET>
<qvydnTTQBNdJPYrVnZ2dnUVZ_rmjnZ2d@comcast.com>
<67prjeF2qap6tU1@mid.individual.net> <24d4e$4817da47$18d6b40c$17841@KNOLOGY.NET>
X-Trace: individual.net myHWyXowS2JYaSMEaX2yvQVDXaae1S7wUqHtMlmwpM9TvVKojn
Cancel-Lock: sha1:p54aPn48uXwYhIBtxMWXnvNKe0M=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Xref: g2news1.google.com rec.radio.amateur.homebrew:15567
sci.electronics.design:337894


"amdx"
> "Phil Allison"
>> "Charles"
>>>
```

>>> Switch-mode power supplies are dirty ... lots of harmonic energy. The
>>> interference is both radiated and sent back into the ac mains.
>>
>>
>> ** But they don't usually generate energy in the FM broadcast band (
>> i.e. 88 - 108 MHz) -   that is more likely to be due to the CPU and
>> associated high speed circuits inside the PC.
>>
> Good call Phil,
> Maybe I didn't say it clearly, but just plugging the ac cord in and
> holding
> it near the laptop induces noise on the power line. (ac cord only, no
> switching power supply attached)

 ** Validates my comment completely.

... Phil

From -990844981400655101
X-Google-Thread: fc2a5,caab67d2e4606ba2
X-Google-Thread: 112d1e,caab67d2e4606ba2
X-Google-Attributes: gidfc2a5,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!out01b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews5.bellsouth.net.POSTED!aba369ab!not-for-mail
Message-ID: <4817FF36.4040506@NETTALLY.COM>
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.12 (Windows/20080213)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Help, Laptop causes FM interference
References: <eb840$481794c7$450139f0$443@KNOLOGY.NET>
In-Reply-To: <eb840$481794c7$450139f0$443@KNOLOGY.NET>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 40
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcbohdbkknfdkigheiifpigkhkenkdoiklinpd
kkniakbmhaegdajladmgjmeidggbmaloalcdkbigohbbldmlmbolooaldmefffgmhhigpccghjladb
NNTP-Posting-Date: Wed, 30 Apr 2008 01:09:22 EDT
Organization: BellSouth Internet Group
Date: Wed, 30 Apr 2008 01:10:14 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:15568

sci.electronics.design:337909

amdx wrote:
> I have an undercounter AM, FM radio. When I plug the power supply to my
> laptop
> into an outlet in the same room, the FM signal gets very noisy. Upon further
> investigation, I found that just plugging the ac cord into an outlet and
> holding it near the laptop causes the noise. Also holding the laptop near
> the power cord of the radio causes the noise. Holding the laptop near the
> radio doesn't cause the noise.
> So I think the laptop is generating noise that gets induced into the ac
> line.
> I tried wrapping the radio cord about (ten turns) through a (junkbox)
> toroid without any help to the problem. The toroid is 3" in dia. It's
> probably an iron laminate core
> (low frequency) so may not be right for filtering the ac line.
>   My next step is to go to Radio Shack and try to purchase some clamshell
> type
> line filters.
>   Any ideas to eliminate this noise from the ac line?
>   Mike
>
>
Some of these undercounter AM/FM sets use the power line as an
"antenna". If you look closely you might find an antenna screw with a
metal clamp going around the power cord. If this is the case, you are
likely creating an extension of that antenna by plugging in one end of
the computer power cord and placing it near the laptop (which is
undeniably an noise source).

The fix is to get a separate FM antenna for the receiver and mount it
outside or at least some distance from your computer. Having a balanced
300 ohm type antenna might solve the problem.

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From 2623070898104724312
X-Google-Thread: fc2a5,caab67d2e4606ba2
X-Google-Thread: 112d1e,caab67d2e4606ba2
X-Google-Attributes: gidfc2a5,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.karotte.org!
news2.arglkargh.de!feeder.erje.net!aioe.org!not-for-mail
From: Jan Panteltje <PNaonStpealmtje@yahoo.com>

```
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Help, Laptop causes FM interference
Date: Wed, 30 Apr 2008 08:51:35 GMT
Organization: Aioe.org NNTP Server
Lines: 15
Message-ID: <fv9bun$gh1$1@aioe.org>
References: <eb840$481794c7$450139f0$443@KNOLOGY.NET>
NNTP-Posting-Host: tkXlqCdYou/8lie5mwjBiA.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-15
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@aioe.org
X-Newsreader-location: NewsFleX-1.5.7.3 (c) 'LIGHTSPEED' off line news reader for
the Linux platform
 NewsFleX homepage: http://panteltje.com/panteltje/newsflex/ and ftp download
ftp://sunsite.unc.edu/pub/linux/system/news/readers/
User-Agent: NewsFleX-1.5.7.3 (Linux-2.6.21)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15569
sci.electronics.design:337923

On a sunny day (Tue, 29 Apr 2008 16:55:12 -0500) it happened "amdx"
<amdx@knology.net> wrote in <eb840$481794c7$450139f0$443@KNOLOGY.NET>:

>I have an undercounter AM, FM radio. When I plug the power supply to my
>laptop
>into an outlet in the same room, the FM signal gets very noisy. Upon further
>investigation, I found that just plugging the ac cord into an outlet and
>holding it near the laptop causes the noise.

Looks like that radio is using the main lead [power cord] as FM antenna.

So if you decouple that mains lead noise will _not_ get better.

Just keep the 2 separate.
Or, if the radio has an external antenna connector, use that.


From -1439228968364750203
X-Google-Thread: fc2a5,4d69f4d9bf21003c,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!8g2000hse.googlegroups.com!not-for-
mail
From: dd4ka <hsteffes@googlemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Rotator Pal
Date: Wed, 30 Apr 2008 12:09:48 -0700 (PDT)
Organization: http://groups.google.com
Lines: 8
Message-ID: <4fb19599-e0d7-4891-8c69-c40e2592e743@8g2000hse.googlegroups.com>
NNTP-Posting-Host: 88.76.200.21
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
```

```
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1209582589 10293 127.0.0.1 (30 Apr 2008 19:09:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 30 Apr 2008 19:09:49 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 8g2000hse.googlegroups.com; posting-host=88.76.200.21;
     posting-account=dL439QoAAAA0kxU20xrA_SSRpGay104x
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; de; rv:1.9b5)
     Gecko/2008032620 Firefox/3.0b5,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15570

Hi OM=B4s

I=B4m searchiung for an article of the Feb.QST Page 35 named Build your
rotor control.
If you culd mail me a copy of this article I would be very glad.
73
Hans
DD4KA



From 3612222627259222324
X-Google-Thread: fc2a5,4d69f4d9bf21003c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!
attbi_s22.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <4fb19599-e0d7-4891-8c69-c40e2592e743@8g2000hse.googlegroups.com>
Subject: Re: Rotator Pal
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <Yo5Sj.90007$TT4.46993@attbi_s22>
NNTP-Posting-Host: 12.219.130.17
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1209590456 12.219.130.17 (Wed, 30 Apr 2008 21:20:56 GMT)
NNTP-Posting-Date: Wed, 30 Apr 2008 21:20:56 GMT
Organization: AT&T ASP.att.net
Date: Wed, 30 Apr 2008 21:21:00 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15571


"dd4ka" <hsteffes@googlemail.com> wrote in message
news:4fb19599-e0d7-4891-8c69-c40e2592e743@8g2000hse.googlegroups.com...
Hi OM�s
```

I�m searchiung for an article of the Feb.QST Page 35 named Build your
rotor control.
If you culd mail me a copy of this article I would be very glad.
73
Hans
DD4KA

You either have the wrong magazine or the wrong year/month. It's not in Feb
2008 QST.

W4ZCB

From 563403292772837497
X-Google-Thread: fc2a5,4d69f4d9bf21003c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
y21g2000hsf.googlegroups.com!not-for-mail
From: dd4ka <hsteffes@googlemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Rotator Pal
Date: Wed, 30 Apr 2008 21:13:05 -0700 (PDT)
Organization: http://groups.google.com
Lines: 25
Message-ID: <bc4dcea1-74ad-4f9d-870a-91d865375160@y21g2000hsf.googlegroups.com>
References: <4fb19599-e0d7-4891-8c69-c40e2592e743@8g2000hse.googlegroups.com>
     <Yo5Sj.90007$TT4.46993@attbi_s22>
NNTP-Posting-Host: 88.76.204.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1209615186 12573 127.0.0.1 (1 May 2008 04:13:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 1 May 2008 04:13:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y21g2000hsf.googlegroups.com; posting-host=88.76.204.225;
     posting-account=dL439QoAAAA0kxU20xrA_SSRpGay104x
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; de; rv:1.9b5)
     Gecko/2008032620 Firefox/3.0b5,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15572

On 30 Apr., 23:21, "Harold E. Johnson" <W4...@mchsi.com> wrote:
> "dd4ka" <hstef...@googlemail.com> wrote in message
>
> news:4fb19599-e0d7-4891-8c69-c40e2592e743@8g2000hse.googlegroups.com...
> Hi OM=B4s
>
> I=B4m searchiung for an article of the Feb.QST Page 35 named Build your
> rotor control.

> If you culd mail me a copy of this article I would be very glad.
> 73
> Hans
> DD4KA
>
> You either have the wrong magazine or the wrong year/month. It's not in Fe=
b
> 2008 QST.
>
> W4ZCB

Hi
I=B4m sorry I forgot the year it was in feb QST 1996

73
Hans
DD4KA

From 9210657492982333730
X-Google-Thread: fc2a5,4d69f4d9bf21003c
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews3.bellsouth.net.POSTED!8f6bddba!not-for-mail
From: "K4ERG" <k4erg@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4fb19599-e0d7-4891-8c69-c40e2592e743@8g2000hse.googlegroups.com>
<Yo5Sj.90007$TT4.46993@attbi_s22>
Subject: Re: Rotator Pal
Lines: 32
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <2yfSj.25804$3v1.21194@bignews3.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcboaldijafhnhilmcpffcndkoioeloggmokfi
hiaaldpnfenkcgkijhmefifefinhfopjogimejokdcbfpcbcaefcpkcmmfpiphfbboiekkjimoihmj
NNTP-Posting-Date: Thu, 01 May 2008 04:53:18 EDT
Organization: BellSouth Internet Group
Date: Thu, 1 May 2008 03:53:54 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:15573

"Harold E. Johnson" <W4ZCB@mchsi.com> wrote in message
news:Yo5Sj.90007$TT4.46993@attbi_s22...
>
> "dd4ka" <hsteffes@googlemail.com> wrote in message

```
> news:4fb19599-e0d7-4891-8c69-c40e2592e743@8g2000hse.googlegroups.com...
> Hi OM�s
>
> I�m searchiung for an article of the Feb.QST Page 35 named Build your
> rotor control.
> If you culd mail me a copy of this article I would be very glad.
> 73
> Hans
> DD4KA
>
> You either have the wrong magazine or the wrong year/month. It's not in
> Feb 2008 QST.
>
> W4ZCB
>

There are two hits for "Rotator Pal" in the QST index:

      Issue Page Title Author
      May 1996 QST 75 Feedback "Build the Rotator Pal" February 1996 QST
      (Feedback)
      Keywords: HOMEBREW ROTATOR CONSTRUCTION CONTROL
      Feb 1996 QST 35 Build the Rotator Pal
      Keywords: ROTATOR CONSTRUCTION CONTROL HOMEBREW Brock-Fisher, Tony,
K1KP




From -8176801505105143036
X-Google-Thread: fc2a5,4a5a52db5cf44d04
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!news-
out.octanews.net!indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: 7360/6AR8 mixer configs
Date: Thu, 01 May 2008 02:59:26 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.05.01.09.59.26.599935@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <d5ce3035-b5a1-461e-989c-2076f2c0140d@u10g2000prn.googlegroups.com>
<d6cfcba2-5d50-4c5c-a7df-4e92244f968e@2g2000hsn.googlegroups.com>
<fs8iq8$7d9$1@theodyn.ncf.ca> <51505d5b-ef91-4530-9ede-
d7e5d2c77a1d@13g2000hsb.googlegroups.com>
<Pine.LNX.4.64.0803242222350.13145@darkstar.example.org> <e3b4c257-aed5-4cc4-b34f-
f71519061411@e53g2000hsa.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 13
Organization: Octanews
NNTP-Posting-Date: 01 May 2008 04:59:26 CDT
```

X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15574

Hi,

<snip>

> Alternatives are the 6JH8 and 6ME8, which are less expensive and more
> common.

I've done some experiments with the 6ME8 and it's horribly noisy compared
to the 7360.... or even a 6BE6 for that matter :-\

Cheers,
--
Gregg

From -2669346834055538956
X-Google-Thread: fc2a5,55c8708abe050551,start
X-Google-Thread: 112d1e,55c8708abe050551,start
X-Google-Attributes: gidfc2a5,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!
newsfeed2.telusplanet.net!newsfeed.telus.net!edtnps91.POSTED!53ab2750!not-for-mail
From: _ <jtayNOSPAMlor@hfDONTSENDMESPAMx.andara.com>
Subject: Am I getting multipath distortion?
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
User-Agent: 40tude_Dialog/2.0.15.1
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Message-ID: <1hyqimxunfulr$.rxi9kepwelq5.dlg@40tude.net>
Lines: 25
Date: Thu, 01 May 2008 11:43:40 GMT
NNTP-Posting-Host: 24.222.90.40
X-Trace: edtnps91 1209642220 24.222.90.40 (Thu, 01 May 2008 05:43:40 MDT)
NNTP-Posting-Date: Thu, 01 May 2008 05:43:40 MDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15575
sci.electronics.design:338116

...and if so what can I do about it?

I have a cobbled-together setup that almost works. I coach swimming, and I
have a small video gadget that links to a Tivo and a TV via one of those
video transmitters that you can get from ebay. I think it is a 1.2 gHz
50mw version.

The kids swim and then watch, and having the Tivo means there's a
continuous flow of action. The problem is that the picture quality is bad.
I'm only 20 metres away and there is a direct line-of-sight from
transmitter to reciever - ocassionally with a body or two in the way; but
even without, there is considerable jumping and colour distortion and

generally a bad picture. If I stand still at just about any distance I can find a place that gets a good picture, but moving - even turning - makes it change.

The ceiling and the upper half of the inside walls of the pool are panelled with strips of aluminium sheathing - about 6 inches wide and 20 or more feet long. These are separated by about a 1-inch gap along the long edges, and mounted to a framework (which is mounted to concrete) with some sort of clip arrangement. This is a box about 220 feet long and 25 feet high.

What's the best guess for improving the picture? More power? Different frequency? Antenna mounting (I could wear a beanie with it sticking up from the top - that'd be cool)?

From -1985243800598274432
X-Google-Thread: fc2a5,55c8708abe050551
X-Google-Thread: 112d1e,55c8708abe050551
X-Google-Attributes: gidfc2a5,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!34g2000hsf.googlegroups.com!not-for-mail
From: Wimpie <wimabctel@tetech.nl>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Am I getting multipath distortion?
Date: Thu, 1 May 2008 05:48:02 -0700 (PDT)
Organization: http://groups.google.com
Lines: 70
Message-ID: <64efb19c-3a96-4a3d-b512-b12e7ecebb36@34g2000hsf.googlegroups.com>
References: <1hyqimxunfulr$.rxi9kepwelq5.dlg@40tude.net>
NNTP-Posting-Host: 83.83.102.22
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1209646083 7601 127.0.0.1 (1 May 2008 12:48:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 1 May 2008 12:48:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 34g2000hsf.googlegroups.com; posting-host=83.83.102.22;
     posting-account=zVUxlQoAAADRSHyUExTufgKSJEZ4XlzO
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; es-ES; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15576
sci.electronics.design:338124

On 1 mayo, 13:43, _ <jtayNOSPAM...@hfDONTSENDMESPAMx.andara.com>
wrote:
> ...and if so what can I do about it?
>
> I have a cobbled-together setup that almost works. I coach swimming, and I
> have a small video gadget that links to a Tivo and a TV via one of those
> video transmitters that you can get from ebay. I think it is a 1.2 gHz

> 50mw version.
>
> The kids swim and then watch, and having the Tivo means there's a continuous flow of action. The problem is that the picture quality is bad. I'm only 20 metres away and there is a direct line-of-sight from transmitter to reciever - ocassionally with a body or two in the way; but even without, there is considerable jumping and colour distortion and generally a bad picture. If I stand still at just about any distance I can find a place that gets a good picture, but moving - even turning - makes it change.
>
> The ceiling and the upper half of the inside walls of the pool are panelled with strips of aluminium sheathing - about 6 inches wide and 20 or more feet long. These are separated by about a 1-inch gap along the long edges, and mounted to a framework (which is mounted to concrete) with some sort of clip arrangement. This is a box about 220 feet long and 25 feet high.
>
> What's the best guess for improving the picture? More power? Different frequency? Antenna mounting (I could wear a beanie with it sticking up from the top - that'd be cool)?

Hello,

When the multi path effect only affects received signal strength, you can find many places with good reception and many with bad reception.

Best thing is to try it in an empty swimming hall. Your environment is stable in that case. Move slowly < 1"/s and see what happens. At 1.2 GHz (WL about 10", 0.25m), the distance between bad reception and good reception can be as low as some inches.

50mW is more then sufficient power for such an indoor application, so assuming reasonable receive and transmit antenna, increasing power will not help. You might switch to another channel or look to the picture with transmitter off to check for interference from a similar or other system sharing the same frequency.

In case of severe multi path effects bad and good reception may alternate within a yard (1m). When in the good places the reception is noise free, signal will have sufficient strength.

With severe multi path, where path via reflection can be many yards longer then the direct path, not only signal strength, but also received signal quality is affected (delay spread).   In this case you will find few places with reasonable reception, even under good signal strength.

Given your equipment (probably Frequency Modulated system with one receive antenna), a directional receive antenna may give improvement. The disadvantage is that you need a second person to have the antenna aimed at the transmitter (in case of moving setup).

If this all is not possible and it must be wireless, you have to

divert to multi antenna systems (space diversity) in combination with
channel equalization or real wide band systems based on OFDM or other
multi path resistant modulation scheme.

Hope this helps you a bit.

Wim
PA3DJS
www.tetech.nl
please remove abc from the address in case of a direct reply.

From -7469093929372822807
X-Google-Thread: fc2a5,55c8708abe050551
X-Google-Thread: 112d1e,55c8708abe050551
X-Google-Attributes: gidfc2a5,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
y38g2000hsy.googlegroups.com!not-for-mail
From: Mark <makolber@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Am I getting multipath distortion?
Date: Thu, 1 May 2008 08:20:51 -0700 (PDT)
Organization: http://groups.google.com
Lines: 16
Message-ID: <39d59868-2848-4a13-87ac-910ec75c6bc7@y38g2000hsy.googlegroups.com>
References: <1hyqimxunfulr$.rxi9kepwelq5.dlg@40tude.net>
NNTP-Posting-Host: 129.188.69.129
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1209655252 3276 127.0.0.1 (1 May 2008 15:20:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 1 May 2008 15:20:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y38g2000hsy.googlegroups.com; posting-host=129.188.69.129;
posting-account=WmOtlwkAAADE8ghbKFJsr1g-UcPbtjjc
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15577
sci.electronics.design:338148

On May 1, 7:43=A0am, _ <jtayNOSPAM...@hfDONTSENDMESPAMx.andara.com>
wrote:
> ...and if so what can I do about it?
>

yes it seems so...I have seen the same thing with those devices.

it is very difficult to solve, you would need better antennas...

in your case it may be more practical to use a coax wired connection

For electrical saftey around water...be VERY careful that all
equipment is properly grounded, that the outlet grounds are wired
properly and I would also use GFI circuits.

Mark

From 2737913352352147285
X-Google-Thread: fc2a5,4a5a52db5cf44d04
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.acm.uiuc.edu!
news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 7360/6AR8 mixer configs
Date: Thu, 1 May 2008 11:25:12 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 21
Sender: et472@72.0.192.110
Message-ID: <Pine.LNX.4.64.0805011123180.15566@darkstar.example.org>
References: <d5ce3035-b5a1-461e-989c-2076f2c0140d@u10g2000prn.googlegroups.com>
 <d6cfcba2-5d50-4c5c-a7df-4e92244f968e@2g2000hsn.googlegroups.com>
 <fs8iq8$7d9$1@theodyn.ncf.ca> <51505d5b-ef91-4530-9ede-
d7e5d2c77a1d@13g2000hsb.googlegroups.com>
 <Pine.LNX.4.64.0803242222350.13145@darkstar.example.org>
 <e3b4c257-aed5-4cc4-b34f-f71519061411@e53g2000hsa.googlegroups.com>
 <pan.2008.05.01.09.59.26.599935@localhost.localdomain>
NNTP-Posting-Host: 72.0.192.110
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1209655695 13192 72.0.192.110 (1 May 2008 15:28:15 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 1 May 2008 15:28:15 GMT
In-Reply-To: <pan.2008.05.01.09.59.26.599935@localhost.localdomain>
Xref: g2news1.google.com rec.radio.amateur.homebrew:15578

On Thu, 1 May 2008, geek wrote:

> Hi,
>
> <snip>
>
>> Alternatives are the 6JH8 and 6ME8, which are less expensive and more
>> common.
>
> I've done some experiments with the 6ME8 and it's horribly noisy compared
> to the 7360.... or even a 6BE6 for that matter :-\
>

You're not going to get a balanced mixer out of a single 6BE6 either.

But, on does have the advantage that beam deflection tubes aren't just

used as first mixers. Balanced modulators and mixers in SSB transmitters.
Product detector in a receiver. There, noise isn't the same issue
as in a first mixer.

Michael VE2BVW

From 3755390629834380368
X-Google-Thread: fc2a5,55c8708abe050551
X-Google-Thread: 112d1e,55c8708abe050551
X-Google-Attributes: gidfc2a5,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!wns14feed!
worldnet.att.net!199.45.49.37!cyclone1.gnilink.net!spamkiller.gnilink.net!
gnilink.net!trnddc01.POSTED!58f0df80!not-for-mail
From: Keith M <keithvz@yanktheobvious.verizon.net>
User-Agent: Thunderbird 2.0.0.12 (Windows/20080213)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Am I getting multipath distortion?
References: <1hyqimxunfulr$.rxi9kepwelq5.dlg@40tude.net>
In-Reply-To: <1hyqimxunfulr$.rxi9kepwelq5.dlg@40tude.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 43
Message-ID: <FZlSj.8133$PY5.3368@trnddc01>
Date: Thu, 01 May 2008 16:12:21 GMT
NNTP-Posting-Host: 96.236.151.56
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc01 1209658341 96.236.151.56 (Thu, 01 May 2008 12:12:21 EDT)
NNTP-Posting-Date: Thu, 01 May 2008 12:12:21 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15579
sci.electronics.design:338152

_ wrote:

> I have a cobbled-together setup that almost works. I coach swimming, and I
> have a small video gadget

Well that's the first problem. Those cheap video transmitters are
barely worth what you paid for them. There is a huge quality and price
difference between models. Pay $50 and you get $50 worth of video quality.

> The ceiling and the upper half of the inside walls of the pool are panelled
> with strips of aluminium sheathing - about 6 inches wide and 20 or more
> feet long.

Ok, so not really a perfect environment for wireless. :)

> What's the best guess for improving the picture?

Get a better unit. Can you possibly run cable? Either use a better grade of video cable, or use a video-over-copper extender if the cable path is pretty long. Oh, and stay away from cheap video baluns too.

> More power?

If you have true line of sight, you are probably ok with the power.

> Different
> frequency?

Is this really something you can change? I mean more than just a frequency within a range? If you can change bands, then maybe --- that usually takes dual-radios etc.

> Antenna mounting (I could wear a beanie with it sticking up
> from the top - that'd be cool)?

The other poster Wimpie is right on. If you think it's multipath, then either use antenna diversity by using two antennas (which of course your radio has to support), or try using a directional antenna with a tight beamwidth. The stronger (higher dbi gain) antenna will have a smaller horizontal/vertical beamwidth. And so the chances of multipath will be lessened.

Keith

From -5266856562635925849
X-Google-Thread: fc2a5,55c8708abe050551
X-Google-Thread: 112d1e,55c8708abe050551
X-Google-Attributes: gidfc2a5,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!uns-out.usenetserver.com!news.usenetserver.com!pc03.usenetserver.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <1hyqimxunfulr$.rxi9kepwelq5.dlg@40tude.net>
Subject: Re: Am I getting multipath distortion?
Date: Thu, 1 May 2008 11:17:46 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <899a0$4819ed2e$450139ad$14375@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 40
X-Trace: 899a04819ed2ee0a49c0814375
Xref: g2news1.google.com rec.radio.amateur.homebrew:15580 sci.electronics.design:338154

```
"_" <jtayNOSPAMlor@hfDONTSENDMESPAMx.andara.com> wrote in message
news:1hyqimxunfulr$.rxi9kepwelq5.dlg@40tude.net...
> ...and if so what can I do about it?
>
> I have a cobbled-together setup that almost works.  I coach swimming, and
> I
> have a small video gadget that links to a Tivo and a TV via one of those
> video transmitters that you can get from ebay.  I think it is a 1.2 gHz
> 50mw version.
>
> The kids swim and then watch, and having the Tivo means there's a
> continuous flow of action.  The problem is that the picture quality is
> bad.
> I'm only 20 metres away and there is a direct line-of-sight from
> transmitter to reciever - ocassionally with a body or two in the way; but
> even without, there is considerable jumping and colour distortion and
> generally a bad picture.  If I stand still at just about any distance I
> can
> find a place that gets a good picture, but moving - even turning - makes
> it
> change.
>
> The ceiling and the upper half of the inside walls of the pool are
> panelled
> with strips of aluminium sheathing - about 6 inches wide and 20 or more
> feet long.  These are separated by about a 1-inch gap along the long
> edges,
> and mounted to a framework (which is mounted to concrete) with some sort
> of
> clip arrangement.  This is a box about 220 feet long and 25 feet high.
>
> What's the best guess for improving the picture?  More power?  Different
> frequency?  Antenna mounting (I could wear a beanie with it sticking up
> from the top - that'd be cool)?

  No beanie but, http://www.detroitatvrepeater.com/rcplane.htm
                                       Mike




From 6612414690595471504
X-Google-Thread: fc2a5,f488ad77d8ce7a2,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
Date: Thu, 01 May 2008 11:56:16 +0800
From: Ty Unes <riverty@gmail.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.4) Gecko/20070601
SeaMonkey/1.1.2
```

MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: 12BA6 -or- 12BE6 AM BC Low-Power Transmitter Help Please.
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 16
Message-ID: <4819f67d$0$30234$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 24.27.152.8
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15581

I have a handful of 12BA6 and 12BE6 tubes. I also could use an AM broadcast band transmitter for use around the house. I was wondering if these tubes could be used for a 1 or 2 tube transmitter in the BC band at 100mw or lower. Searching on the internet, I have found a few circuits all using different tubes but not these.

I love building and troubleshooting tube circuits but I lack the knowledge to "engineer" a circuit using these tubes. I wonder if someone would be kind enough to offer some advice on how I could get this done. Do you have a schematic of a circuit that would use these tubes? Is it even possible with these tubes? Is it a fairly easy task for someone with the knowledge to create a schematic for this?

Thanks for your time.

Ty Unes - OP, Ks.

From 8684720592196580211
X-Google-Thread: fc2a5,31c06045d7955d90,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i76g2000hsf.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: In search of: 2SK1740's, 2SK125's
Date: Thu, 1 May 2008 10:56:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 17
Message-ID: <5b9bd44c-1ebb-46a1-b54f-1c3b6d3039f1@i76g2000hsf.googlegroups.com>
NNTP-Posting-Host: 170.121.15.44
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1209664580 21412 127.0.0.1 (1 May 2008 17:56:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 1 May 2008 17:56:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i76g2000hsf.googlegroups.com; posting-host=170.121.15.44;
posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2

```
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15582
```

A number of new radios with high-performance front ends use 2SK1740's in the mixers. (e.g. the 756Pro3, Omni 7n - in fact you can find their schematics on the web). If I wanted to grab a couple of these for my experimentation, where could I buy them? They're almost certainly surface mount but that's OK.

The previous generation part of choice seems to be the 2SK125 (as illustrated in the ARRL handbook) and I'd like to find some of these too but these seem to be obsolete.

Any other parts to look at? Sabin was using the 2N4416 (common-source but same idea) in 1970. Today would a J310 be about equivalent?

Is the actual part number less important than matching when it comes to performance?

Tim N3QE

```
From -5524255359919680115
X-Google-Thread: fc2a5,f488ad77d8ce7a2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 01 May 2008 15:55:04 -0500
From: Mike <nomtrxspam@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 12BA6 -or- 12BE6 AM BC Low-Power Transmitter Help Please.
Date: Thu, 01 May 2008 16:55:04 -0400
Organization: Mtronix
Message-ID: <tkak14ptsb6nqjjl03q48qbu06glbqfiif@4ax.com>
References: <4819f67d$0$30234$4c368faf@roadrunner.com>
X-Newsreader: Forte Agent 2.0/32.652
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 34
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 68.58.129.112
X-Trace:
sv3-5VNZsdmLpLnrfRDDAIAeJPYiqwzohkupRVrExx3C88y30h2MOQCxsC7JR300m9zU459lZne1df7EPZ
j!BJ4RJLFPcqzZAfaAaAtGncU0JYa9yPVilebo058jrVHgzsOqL2a/hLdhveaz64d/o5N9VoOkkjSQ!
ULCKfh6oU6SSewfg6NbH1SpKn9M=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
```

X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:15583

On Thu, 01 May 2008 11:56:16 +0800, Ty Unes <riverty@gmail.com> wrote:

>I have a handful of 12BA6 and 12BE6 tubes. I also could use an AM
>broadcast band transmitter for use around the house. I was wondering if
>these tubes could be used for a 1 or 2 tube transmitter in the BC band
>at 100mw or lower. Searching on the internet, I have found a few
>circuits all using different tubes but not these.
>
>I love building and troubleshooting tube circuits but I lack the
>knowledge to "engineer" a circuit using these tubes. I wonder if someone
>would be kind enough to offer some advice on how I could get this done.
>Do you have a schematic of a circuit that would use these tubes? Is it
>even possible with these tubes? Is it a fairly easy task for someone
>with the knowledge to create a schematic for this?
>
>Thanks for your time.
>
>Ty Unes - OP, Ks.

Take a look at this one. http://www.dogstar.dantimax.dk/tubestuf%20/amtx-1.htm
The problem will be finding a crystal for an unused frequency in your area.

or maybe this will help. http://www.geocities.com/wa2ise/radios/amxmit.html

Mike

"In view of such harmony in the cosmos which I,
with my limited human mind, am able to recognize,
there are yet people who say there is no God.
But what really makes me angry is that they quote
me for the support of such views."
Albert Einstein (theoretical Physicist)

From 7785375522713169221
X-Google-Thread: fc2a5,4a5a52db5cf44d04
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: 7360/6AR8 mixer configs
Date: Thu, 01 May 2008 15:01:46 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.05.01.22.01.45.126865@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew

```
References: <d5ce3035-b5a1-461e-989c-2076f2c0140d@u10g2000prn.googlegroups.com>
<d6cfcba2-5d50-4c5c-a7df-4e92244f968e@2g2000hsn.googlegroups.com>
<fs8iq8$7d9$1@theodyn.ncf.ca> <51505d5b-ef91-4530-9ede-
d7e5d2c77a1d@13g2000hsb.googlegroups.com>
<Pine.LNX.4.64.0803242222350.13145@darkstar.example.org> <e3b4c257-aed5-4cc4-b34f-
f71519061411@e53g2000hsa.googlegroups.com>
<pan.2008.05.01.09.59.26.599935@localhost.localdomain>
<Pine.LNX.4.64.0805011123180.15566@darkstar.example.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 32
Organization: Octanews
NNTP-Posting-Date: 01 May 2008 17:01:47 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15584

On Thu, 01 May 2008 11:25:12 -0400, Michael Black wrote:

> On Thu, 1 May 2008, geek wrote:
>
>> Hi,
>>
>> <snip>
>>
>>> Alternatives are the 6JH8 and 6ME8, which are less expensive and more
>>> common.
>>
>> I've done some experiments with the 6ME8 and it's horribly noisy compared
>> to the 7360.... or even a 6BE6 for that matter :-\
>>
> You're not going to get a balanced mixer out of a single 6BE6 either.
>
> But, on does have the advantage that beam deflection tubes aren't just
> used as first mixers.  Balanced modulators and mixers in SSB transmitters.
> Product detector in a receiver.  There, noise isn't the same issue
> as in a first mixer.
>
>    Michael  VE2BVW

Indeed!

My tests were based on the first mixer for a SW receiver (gah, which I
have still to build >.< )

Cheers!
--
Gregg



From 91149436655198513
X-Google-Thread: fc2a5,d02ade89425fba4b,start
```

X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 01 May 2008 17:03:00 -0500
From: "Howard W3CQH" <hsgorden@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: looking for construction article
Date: Thu, 1 May 2008 18:03:49 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <Fqadnefe5YmJo4fVnZ2dnUVZ_jSdnZ2d@comcast.com>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 76.100.201.181
X-Trace: sv3-fpHee4fTab9GgRgq8CwF+OKenUCYgHx2gF2lSCQVS1RdgqTmJtgY3M/A/
fY0J8RQiRETnfS1ZUdeLA7!xtTfH6fAvZRPdJHY+//gpxjwB9WcM/
SCjyccH5qbxVuDdUwP5E1l2ZsCmY6YsDo8wYn6h8GH/YmN!HTQPCiDGrJPVSDfjvJVZXCa6qp9rscQ=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com rec.radio.amateur.homebrew:15585

Looking for some information -

A while back - someone put together an article - whereas they made single board computer in a keybd - with sound card & either usb or serial ports and port for external Hard drive & screen.. and it ran on XP..

I want to use this on HF/VHF portable operation!

Due to a system crash a bit ago I seemed to have misplaced the construction article..

Anybody happen to have a copy?

73's

From -2637356311541973092
X-Google-Thread: fc2a5,f488ad77d8ce7a2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news1.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: 12BA6 -or- 12BE6 AM BC Low-Power Transmitter Help Please.
Date: Thu, 01 May 2008 15:04:00 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.05.01.22.04.00.139589@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <4819f67d$0$30234$4c368faf@roadrunner.com>
<tkak14ptsb6nqjjl03q48qbu06glbqfiif@4ax.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 31
Organization: Octanews
NNTP-Posting-Date: 01 May 2008 17:04:01 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15586

On Thu, 01 May 2008 16:55:04 -0400, Mike wrote:

> On Thu, 01 May 2008 11:56:16 +0800, Ty Unes <riverty@gmail.com> wrote:
>
>>I have a handful of 12BA6 and 12BE6 tubes. I also could use an AM
>>broadcast band transmitter for use around the house. I was wondering if
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>>at 100mw or lower. Searching on the internet, I have found a few
>>circuits all using different tubes but not these.
>>
>>I love building and troubleshooting tube circuits but I lack the
>>knowledge to "engineer" a circuit using these tubes. I wonder if someone
>>would be kind enough to offer some advice on how I could get this done.
>>Do you have a schematic of a circuit that would use these tubes? Is it
>>even possible with these tubes? Is it a fairly easy task for someone
>>with the knowledge to create a schematic for this?
>>
>>Thanks for your time.
>>
>>Ty Unes - OP, Ks.
>
>
> Take a look at this one. http://www.dogstar.dantimax.dk/tubestuf%20/amtx-1.htm
> The problem will be finding a crystal for an unused frequency in your area.

I have that exact transmitter here - it'll take synthesized RF OK if
you want to get fancy and have no xtal :-)

Cheers,

--
Gregg

From -3473694343578475561

X-Google-Thread: fc2a5,be618fdf28af2ff9,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: Ty Unes <riverty@kc.rr.com>
Subject: 455Khz Coil ID Please
Newsgroups: rec.radio.amateur.homebrew
User-Agent: pan 0.119 (Karma Hunters)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Date: 01 May 2008 22:06:30 GMT
Lines: 13
Message-ID: <481a3ee6$0$12976$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 24.27.152.8
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15587

Could someone please help me identify what coil I should use for this
circuit? I need the 455Khz ocillator coil.

The circuit in question can be found here:

http://2xl.homelinux.com/riverty/downloads/radio/xmitter.gif

Pictures of the coils in question are here:

http://2xl.homelinux.com/riverty/downloads/radio/dscn1573.jpg
http://2xl.homelinux.com/riverty/downloads/radio/dscn1574.jpg

Thank you for your help.

From -207747733400384736
X-Google-Thread: fc2a5,31c06045d7955d90
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: In search of: 2SK1740's, 2SK125's
Date: Thu, 01 May 2008 15:07:08 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.05.01.22.07.08.449545@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <5b9bd44c-1ebb-46a1-b54f-1c3b6d3039f1@i76g2000hsf.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 10

Organization: Octanews
NNTP-Posting-Date: 01 May 2008 17:07:09 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15588

Hi,

I saw a thread on diyAudio.com a while back a fellow had a pile of
obsolete transistors (rf transistors are often used by us HiFi nuts).
Maybe you can find some there on a search?

Cheers,
--
Gregg

From -7153118702743605063
X-Google-Thread: fc2a5,31c06045d7955d90
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Date: Fri, 02 May 2008 00:00:31 +0100
From: Gerry <breakeronthesideletitslide@yahoo.co.uk>
Reply-To: breakeronthesideletitslide@yahoo.co.uk
User-Agent: Thunderbird 2.0.0.12 (Windows/20080213)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: In search of: 2SK1740's, 2SK125's
References: <5b9bd44c-1ebb-46a1-b54f-1c3b6d3039f1@i76g2000hsf.googlegroups.com>
In-Reply-To: <5b9bd44c-1ebb-46a1-b54f-1c3b6d3039f1@i76g2000hsf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <481a4b8c$1_4@mk-nntp-2.news.uk.tiscali.com>
Lines: 22
X-Original-NNTP-Posting-Host: 79.75.246.104
NNTP-Posting-Host: mk-nntp-2.news.uk.tiscali.com
X-Trace: 2 May 2008 00:00:31 +0100, mk-nntp-2.news.uk.tiscali.com
Path: g2news1.google.com!news3.google.com!news.germany.com!newsfeed01.sul.t-online.de!newsfeed00.sul.t-online.de!t-online.de!newsfeed1.ip.tiscali.net!tiscali!newsfeed2.ip.tiscali.net!212.74.112.120.MISMATCH!mk-nntp-1.news.uk.tiscali.com!mk-nntp-2.news.uk.tiscali.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15589

Tim Shoppa wrote:
> A number of new radios with high-performance front ends use 2SK1740's
> in the mixers. (e.g. the 756Pro3, Omni 7n - in fact you can find their
> schematics on the web). If I wanted to grab a couple of these for my
> experimentation, where could I buy them? They're almost certainly
> surface mount but that's OK.
>
> The previous generation part of choice seems to be the 2SK125 (as
> illustrated in the ARRL handbook) and I'd like to find some of these
> too but these seem to be obsolete.

>
> Any other parts to look at? Sabin was using the 2N4416 (common-source
> but same idea) in 1970. Today would a J310 be about equivalent?
>
> Is the actual part number less important than matching when it comes
> to performance?
>
> Tim N3QE

Have you tried calling ten tec? They are usually able to supply spares
at reasonable prices.

Gerry....

From 2257685033375011989
X-Google-Thread: fc2a5,55c8708abe050551
X-Google-Thread: 112d1e,55c8708abe050551
X-Google-Attributes: gidfc2a5,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!2g2000hsn.googlegroups.com!not-for-mail
From: mpm <mpmillard@aol.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Am I getting multipath distortion?
Date: Thu, 1 May 2008 19:48:04 -0700 (PDT)
Organization: http://groups.google.com
Lines: 28
Message-ID: <e256f3f7-0289-44c0-8d93-939e267ef28a@2g2000hsn.googlegroups.com>
References: <1hyqimxunfulr$.rxi9kepwelq5.dlg@40tude.net>
NNTP-Posting-Host: 205.188.117.8
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1209696486 17570 127.0.0.1 (2 May 2008 02:48:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 2 May 2008 02:48:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 2g2000hsn.googlegroups.com; posting-host=205.188.117.8;
     posting-account=VRG5ZAoAAADDx-02qJMvRhs-cogIDLHF
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
     .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.0.6 [uScMs f p eN:t cCMp s]), HTTP/1.1
     spider-dtc-th07.proxy.aol.com[CDBC70E7] (Prism/1.2.1), HTTP/1.1
     cache-dtc-ae04.proxy.aol.com[CDBC7508] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:15590
sci.electronics.design:338273

On May 1, 7:43=EF=BF=BDam, _ <jtayNOSPAM...@hfDONTSENDMESPAMx.andara.com>
wrote:
> ...and if so what can I do about it?

Are you holding the transmitter while you're moving?

I am picturing you walking along the side of the pool as the kids swim from end to end.
It's quite possible you are detuning the transmitting antenna when you step.

This could be electromagnetic coupling, capacative, or who knows what??.
The fact that you can stand still and get a good picture is a clue. - one that would seem to eliminate the multi-path thoeries....

I generally agree you get what you pay for. But at 1.2GHz, these are going to be very small wavelengths. My first inclination is that this is not a multipath problem, though it is impossible to tell without further experimentation, and knowing a lot more about exactly what type of modulation scheme is being used.

I second the thought about electrical safety around kids and water.
-mpm

=2E

```
From 7666608581711921108
X-Google-Thread: fc2a5,55c8708abe050551
X-Google-Thread: 112d1e,55c8708abe050551
X-Google-Attributes: gidfc2a5,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news2.google.com!postnews.google.com!
2g2000hsn.googlegroups.com!not-for-mail
From: mpm <mpmillard@aol.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Am I getting multipath distortion?
Date: Thu, 1 May 2008 19:58:09 -0700 (PDT)
Organization: http://groups.google.com
Lines: 14
Message-ID: <bf51d8ec-3e90-492a-845e-9ae6de199b52@2g2000hsn.googlegroups.com>
References: <1hyqimxunfulr$.rxi9kepwelq5.dlg@40tude.net>
<e256f3f7-0289-44c0-8d93-939e267ef28a@2g2000hsn.googlegroups.com>
NNTP-Posting-Host: 205.188.117.8
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1209697089 19148 127.0.0.1 (2 May 2008 02:58:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 2 May 2008 02:58:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 2g2000hsn.googlegroups.com; posting-host=205.188.117.8;
     posting-account=VRG5ZAoAAADDx-02qJMvRhs-cogIDLHF
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
     .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.0.6 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-dtc-th07.proxy.aol.com[CDBC70E7] (Prism/1.2.1), HTTP/1.1
     cache-dtc-ae04.proxy.aol.com[CDBC7508] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:15591
sci.electronics.design:338276

On May 1, 10:48=EF=BF=BDpm, mpm <mpmill...@aol.com> wrote:

> I second the thought about electrical safety around kids and water.
> -mpm
>
> .

Oops, another thought just came to me.
If you're moving the camera / transmitter, it might have a real
chicken-s^it timebase (crystal?) or whatever and could be sensitive to
motion and going slightly off frequency with every bump (step taken).
Maybe you can eliminate this possibiliity by walking very softly.
Like that Karate guy on TV used to do on the onion paper...  :)



From -857670397692742572
X-Google-Thread: fc2a5,be618fdf28af2ff9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!b9g2000prh.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 455Khz Coil ID Please
Date: Thu, 1 May 2008 21:08:56 -0700 (PDT)
Organization: http://groups.google.com
Lines: 22
Message-ID: <32cb516c-cb89-47f9-896b-7e9b359a5ea8@b9g2000prh.googlegroups.com>
References: <481a3ee6$0$12976$4c368faf@roadrunner.com>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1209701336 31194 127.0.0.1 (2 May 2008 04:08:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 2 May 2008 04:08:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b9g2000prh.googlegroups.com; posting-host=71.112.191.81;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15592

On May 1, 3:06 pm, Ty Unes <rive...@kc.rr.com> wrote:
```

> Could someone please help me identify what coil I should use for this
> circuit? I need the 455Khz ocillator coil.
>
> The circuit in question can be found here:
>
> http://2xl.homelinux.com/riverty/downloads/radio/xmitter.gif
>
> Pictures of the coils in question are here:
>
> http://2xl.homelinux.com/riverty/downloads/radio/dscn1573.jpghttp://2xl.homelinux.com/riverty/downloads/radio/dscn1574.jpg
>
> Thank you for your help.

PLEASE don't even THINK of using that circuit! There is no
isolation between the 120V input power and the audio connector.
That's just plain DANGEROUS!

(I'd also like to know why you want to put a transmitter on 455kHz...)

Cheers,
Tom

From -6856223020889693343
X-Google-Thread: fc2a5,f488ad77d8ce7a2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!v26g2000prm.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 12BA6 -or- 12BE6 AM BC Low-Power Transmitter Help Please.
Date: Fri, 2 May 2008 05:03:20 -0700 (PDT)
Organization: http://groups.google.com
Lines: 43
Message-ID: <11d31b06-ecac-4605-a226-6091ee307e5b@v26g2000prm.googlegroups.com>
References: <4819f67d$0$30234$4c368faf@roadrunner.com>
<tkak14ptsb6nqjjl03q48qbu06glbqfiif@4ax.com>
<pan.2008.05.01.22.04.00.139589@localhost.localdomain>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1209729800 948 127.0.0.1 (2 May 2008 12:03:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 2 May 2008 12:03:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v26g2000prm.googlegroups.com; posting-host=204.108.8.5;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)

Xref: g2news1.google.com rec.radio.amateur.homebrew:15593

On May 1, 6:04=A0pm, geek <g...@localhost.localdomain> wrote:
> On Thu, 01 May 2008 16:55:04 -0400, Mike wrote:
> > On Thu, 01 May 2008 11:56:16 +0800, Ty Unes <rive...@gmail.com> wrote:
>
> >>I have a handful of 12BA6 and 12BE6 tubes. I also could use an AM
> >>broadcast band transmitter for use around the house. I was wondering if
> >>these tubes could be used for a 1 or 2 tube transmitter in the BC band
> >>at 100mw or lower. Searching on the internet, I have found a few
> >>circuits all using different tubes but not these.
>
> >>I love building and troubleshooting tube circuits but I lack the
> >>knowledge to "engineer" a circuit using these tubes. I wonder if someone=

> >>would be kind enough to offer some advice on how I could get this done.
> >>Do you have a schematic of a circuit that would use these tubes? Is it
> >>even possible with these tubes? Is it a fairly easy task for someone
> >>with the knowledge to create a schematic for this?
>
> >>Thanks for your time.
>
> >>Ty Unes - OP, Ks.
>
> > Take a look at this one.http://www.dogstar.dantimax.dk/tubestuf%20/amtx-=
1.htm
> > The problem will be finding a crystal for an unused frequency in your ar=
ea.
>
> I have that exact transmitter here - it'll take synthesized RF OK if
> you want to get fancy and have no xtal :-)
>
> Cheers,
> __
> Gregg- Hide quoted text -
>
> - Show quoted text -

I built the Muntz circuit(or very similar) back when I was in high
school in the 60s. I lived about 3 blocks from the school and could
still pick up the signal there on a small transistor radio. I was
rebroadcasting a commercial AM station I couldnt pickup on my little
transistor radio.

Jimmie

From 3122053636389364918
X-Google-Thread: fc2a5,55c8708abe050551
X-Google-Thread: 112d1e,55c8708abe050551
X-Google-Attributes: gidfc2a5,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!j22g2000hsf.googlegroups.com!not-for-

```
mail
From: Frank Raffaeli <SNIPrf_man_frTHIS@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Am I getting multipath distortion?
Date: Fri, 2 May 2008 05:58:33 -0700 (PDT)
Organization: http://groups.google.com
Lines: 30
Message-ID: <54e908a7-eb67-49e0-896b-13310010d212@j22g2000hsf.googlegroups.com>
References: <1hyqimxunfulr$.rxi9kepwelq5.dlg@40tude.net>
<e256f3f7-0289-44c0-8d93-939e267ef28a@2g2000hsn.googlegroups.com>
     <bf51d8ec-3e90-492a-845e-9ae6de199b52@2g2000hsn.googlegroups.com>
NNTP-Posting-Host: 130.164.68.242
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1209733113 10725 127.0.0.1 (2 May 2008 12:58:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 2 May 2008 12:58:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j22g2000hsf.googlegroups.com; posting-host=130.164.68.242;
     posting-account=S5vm1wkAAABR3c3_3GU9t_HPYxgRibQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.3)
     Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15594
sci.electronics.design:338309
```

On May 1, 9:58 pm, mpm <mpmill...@aol.com> wrote:

```
> On May 1, 10:48=EF=BF=BDpm, mpm <mpmill...@aol.com> wrote:
>
> > I second the thought about electrical safety around kids and water.
> > -mpm
>
> > .
>
> Oops, another thought just came to me.
> If you're moving the camera / transmitter, it might have a real
> chicken-s^it timebase (crystal?) or whatever and could be sensitive to
> motion and going slightly off frequency with every bump (step taken).
> Maybe you can eliminate this possibiliity by walking very softly.
> Like that Karate guy on TV used to do on the onion paper...  :)
```

It is almost certainly multipath: The frequency, mobility, and environment are wrong for what you're trying to do. If you can lower the frequency - the lower, the better - then this will help. For example, 72 MHz. You an make it legal by applying for an experimenter's permit (if in the USA, see FCC form 442).

I'm not sure if you can find any commercial transmitters below 900 MHz, so you may need to DIY.

There may be wireless products for DVB-H, DVB-T which would theoretically be an improvement.

As one poster mentioned, your best bet may be a cable.

Frank Raffaeli

```
From -8343170573029539724
X-Google-Thread: fc2a5,2547934eba15e7b6,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
y18g2000pre.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: PE6011-40 transistor
Date: Fri, 2 May 2008 08:34:15 -0700 (PDT)
Organization: http://groups.google.com
Lines: 6
Message-ID: <abeb6b1f-1c4f-4935-8973-44f8c7adedbe@y18g2000pre.googlegroups.com>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1209742456 18856 127.0.0.1 (2 May 2008 15:34:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 2 May 2008 15:34:16 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y18g2000pre.googlegroups.com; posting-host=204.108.8.5;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15595
```

Im looking for the specs on a PE6011-40 transistor. Seems like it is a discontined obsolete item. Im more interersted in its specs than finding a cross.

THX Jimmie

```
From 10691188601976064O7
X-Google-Thread: fc2a5,de9f72a22515edbc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
r66g2000hsg.googlegroups.com!not-for-mail
From: cooper.tim@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Transmitter Circuit?
Date: Fri, 2 May 2008 09:43:09 -0700 (PDT)
Organization: http://groups.google.com
```

```
Lines: 21
Message-ID: <3f7f9d2c-a7db-4a30-90f2-b2a64c60bdf4@r66g2000hsg.googlegroups.com>
References: <783Qj.59291$h65.56659@newsfe2-gui.ntli.net>
NNTP-Posting-Host: 91.107.102.194
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1209746589 18929 127.0.0.1 (2 May 2008 16:43:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 2 May 2008 16:43:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r66g2000hsg.googlegroups.com; posting-host=91.107.102.194;
     posting-account=_5t0NAoAAADaso5KlYuqRPTTevM2Kbo-
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15596
```

On Apr 24, 6:08 pm, "Theo" <theodore.twy...@ntlworld.com> wrote:

> I am trying to locate the article for a simple 2 transistor topband AM phone
> transmitter
> from many years ago that I am sure appeared in "Practical Wireless" sometime
> between 1958 and 1965.
> If memory serves me correctly, it used two germanium transistors, OC71 and
> OC44.
> The OC71 was configured as a microphone amp/modulator and the OC44 as a
> Hartley oscillator.
> The oscillator coil was wound on a short piece of ferrite rod.
> I wonder if anyone can help in any way?

Just found your question whilst searching oc71 on google and this page
is just above it on the results:

http://www.arar93.dsl.pipex.com/mds975/content/trfradios02.html

Is it what you're looking for?

Cheers,
Tim

```
From -8820832255305816038
X-Google-Thread: fc2a5,cd494230a81db50d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
w74g2000hsh.googlegroups.com!not-for-mail
From: bswadener@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MC1350 - Low noise replacement?
Date: Fri, 2 May 2008 12:31:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 21
```

Message-ID: <a6a998d9-d0f2-469e-bc90-bec573a0be4b@w74g2000hsh.googlegroups.com>
References: <0E8Gj.36067$J41.26236@newssvr14.news.prodigy.net>
NNTP-Posting-Host: 12.18.139.6
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1209756687 17053 127.0.0.1 (2 May 2008 19:31:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 2 May 2008 19:31:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w74g2000hsh.googlegroups.com; posting-host=12.18.139.6;
    posting-account=P_N_zQoAAACkF8xnnJx6oTUBOnDkhg4O
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
    1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15597

On Mar 25, 8:13 am, Emil wrote:
> Hello,
>
> I'm looking for an IF amp (w/agc and 50db max gain is ample) to use as a
> replacement for an MC1350. Main reason is noise reduction. Doesn't
> necessarily need be in 8-pin dip package, however, not enough room for an
> entirely built-up amp.
>
> Suggestions appreciated.
>
> Thanks,
> Emil

Analog Devices has the AD603 et al. From the AD603 datasheet:

"The AD603 is a low noise, voltage-controlled amplifier for use in RF
and IF AGC systems. It provides accurate, pin-selectable gains of -11
dB to +31 dB with a bandwidth of 90 MHz or +9 dB to 51+ dB with a
bandwidth of 9 MHz."

Bryan WA7PRC

From 94226004894513846
X-Google-Thread: 1109af,89405d9c67f9695f,start
X-Google-Thread: fc2a5,89405d9c67f9695f,start
X-Google-Thread: fcc6e,89405d9c67f9695f,start
X-Google-Attributes: gid1109af,gidfc2a5,gidfcc6e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
news.cv.net!not-for-mail
From: "Mike Kulyk" <mkulyk@optonline.net>
Newsgroups:
rec.radio.swap,rec.radio.amateur.swap,rec.radio.amateur.homebrew,rec.radio.amateur
.antenna,rec.radio.amateur

Subject: Items I would like to trade
Date: Fri, 2 May 2008 19:24:31 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 28
Message-ID: <481ba2b0$0$11620$607ed4bc@cv.net>
Organization: Optimum Online
NNTP-Posting-Host: 69.117.250.166
X-Complaints-To: abuse@cv.net
Xref: g2news1.google.com rec.radio.swap:19020 rec.radio.amateur.homebrew:15598 rec.radio.amateur.antenna:57206

I have these following items I can't use and I would like to trade for items I can use.

Shure Hand Held Mic.. cm 16r This is a noise canceling mobile mic. with a 6 pin plug NEW.. and I can't use it.

Slinky Dipole antenna. 10-80 mtrs.. With directions. This is a new antenna and it was never installed.

Motorola 12 volt power supply. I was told this is 12 amps.. could be 16 maps

Model HPN 1004A.. Needs minor work.. fraid power cord. other wise its working. not enough current for my needs. And I can't store it in my small apartment.

Motorola white external speaker. No mounting bracket. But in nice shape,

I would be interesting in trading for 20-25 amp power supply,, 12 volts Need not be working. Astron.. or something like it. Or power supply parts.

Antenna tuner,, or parts for a antenna tuner. If it needs work I am open for that. MFJ.. or someother

Please e-mail me at mkulyk@optonline.net

73 mike wb2glw

From -4291124526983781685
X-Google-Thread: fc2a5,be618fdf28af2ff9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!roadrunner.com!not-for-mail

From: Ty Unes <riverty@kc.rr.com>
Subject: Re: 455Khz Coil ID Please
Newsgroups: rec.radio.amateur.homebrew
References: <481a3ee6$0$12976$4c368faf@roadrunner.com>
     <32cb516c-cb89-47f9-896b-7e9b359a5ea8@b9g2000prh.googlegroups.com>
User-Agent: pan 0.119 (Karma Hunters)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Date: 03 May 2008 04:28:18 GMT
Lines: 46
Message-ID: <481be9e2$0$20159$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 24.27.152.8
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15599

On Thu, 01 May 2008 21:08:56 -0700, K7ITM wrote:

> On May 1, 3:06 pm, Ty Unes <rive...@kc.rr.com> wrote:
>> Could someone please help me identify what coil I should use for this
>> circuit? I need the 455Khz ocillator coil.
>>
>> The circuit in question can be found here:
>>
>> http://2xl.homelinux.com/riverty/downloads/radio/xmitter.gif
>>
>> Pictures of the coils in question are here:
>>
>> http://2xl.homelinux.com/riverty/downloads/radio/dscn1573.jpg

http://2xl.homelinux.com/riverty/downloads/radio/dscn1574.jpg
>>
>> Thank you for your help.
>
> _PLEASE_ don't even THINK of using that circuit! There is no isolation
> between the 120V input power and the audio connector. That's just plain
> DANGEROUS!
>
> (I'd also like to know why you want to put a transmitter on 455kHz...)
>
> Cheers,
> Tom

LOL - Don't worry. I'm not using _THAT_ power supply. I made a solid-state supply that gives me 12V ~120ma heater voltage and ~180V B+. Isolated from the mains. But I thank you for pointing that out. Ya never know!

No. I'm trying to verify that the coil in the pictures found here

http://2xl.homelinux.com/riverty/downloads/radio/dscn1573.jpg
http://2xl.homelinux.com/riverty/downloads/radio/dscn1574.jpg

not the IF transformers in square cans - BTW, could be used for the ocillator tank in this circuit found here

http://2xl.homelinux.com/riverty/downloads/radio/xmitter.gif

There are no markings except for a brush-stroke of orange on one end. This coil was salvaged out of an old AA5 radio and I *think* it's for this purpose. Can anyone verify this?

Thanks again.

From 5000044897100344079
X-Google-Thread: fc2a5,be618fdf28af2ff9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!border1.nntp.ams.giganews.com!nntp.giganews.com!feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 455Khz Coil ID Please
Message-ID: <s04o141mnom7bi6e419a0trs32sj98i99e@4ax.com>
References: <481a3ee6$0$12976$4c368faf@roadrunner.com> <32cb516c-cb89-47f9-896b-7e9b359a5ea8@b9g2000prh.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 31
Date: Sat, 03 May 2008 10:23:18 +0300
NNTP-Posting-Host: 85.77.224.3
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1209799399 85.77.224.3 (Sat, 03 May 2008 10:23:19 EEST)
NNTP-Posting-Date: Sat, 03 May 2008 10:23:19 EEST
Organization: Saunalahti Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:15600

On Thu, 1 May 2008 21:08:56 -0700 (PDT), K7ITM <k7itm@msn.com> wrote:

>On May 1, 3:06 pm, Ty Unes <rive...@kc.rr.com> wrote:

>> The circuit in question can be found here:
>>
>> http://2xl.homelinux.com/riverty/downloads/radio/xmitter.gif
>>

>_PLEASE_ don't even THINK of using that circuit! There is no
>isolation between the 120V input power and the audio connector.
>That's just plain DANGEROUS!

That circuit definitively requires an audio transformer with isolation rated many times the mains voltage. Also the antenna and antenna ground connection require capacitors with considerable voltage rating.

At least in Europe, with line voltages about 220 V, AC/DC receivers were common with similar circuits using U-series tubes with 100 mA series heaters. The antenna and ground connection was typically rated at 3750 VDC. Most televisions in Europe in the pre-transistor era used 300 mA P-series heaters. In both radios and televisions a half wave rectifier was used, with an anode power supply around 200 Vdc.

Of course you should always check the orientation of the mains plug, before working within a live chassis. Current regulations require the use of an insulation transformer when working inside equipment with such power supply.

Paul OH3LWR

```
From 3993269772703698171
X-Google-Thread: fc2a5,1e5f463c9ceb107e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 03 May 2008 22:43:40 -0500
Reply-To: "Leland C. Scott" <kc8ldo@arrl.net>
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <YB5Rj.55753$Q52.26207@bignews9.bellsouth.net>
Subject: Re: Suggestions for a PIC for a one time project.
Date: Sat, 3 May 2008 23:43:58 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <kKadnb4OUdxxrYDVnZ2dnUVZ_iydnZ2d@comcast.com>
Lines: 100
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 68.41.138.160
X-Trace: sv3-ZQTYdkcssB7hs/Bgwq2wBq0W+vjLkKUDx++kL2m1vEZ/VH06QC/
BYPGY1vHPI1XOigQtlG+YjMpXWXg!8GaHNHyAPzFWCBH4DhAHPHzrKfSGz4wcors+O/
e6KY8ky1X4Qe+83HJQCEpu4J/n9LfnpYHcTZtB!GmAiBUZScBODE7gQKl9v1bGAyEO7IA==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com rec.radio.amateur.homebrew:15601
```

I don't know why everybody always seems to recommend the Microchip series of controllers, they aren't the only thing out there.

Check out the chips from Parallax, namely the SX28.

http://www.parallax.com/Store/Microcontrollers/SXChips/tabid/138/CategoryID/15/List/0/SortField/0/Level/a/ProductID/355/Default.aspx

If you need more I/O then you can use the surface mount version that has more pins.

http://www.parallax.com/Store/Microcontrollers/SXChips/tabid/138/CategoryID/15/List/0/SortField/0/Level/a/ProductID/354/Default.aspx

Or try using the BASIC Stamp computer system on a board.

http://www.parallax.com/tabid/214/Default.aspx

For prototype work check out the system below:

http://www.parallax.com/Store/Microcontrollers/BASICStampModules/tabid/134/txtSearch/28138/List/1/ProductID/123/Default.aspx?SortField=ProductName%2cProductName

http://www.parallax.com/Store/Microcontrollers/SXTools/tabid/139/CategoryID/17/List/0/SortField/0/Level/a/ProductID/494/Default.aspx

The programming software and a BASIC compiler are all free downloads from Parallax's web site.

For keyboards and LCD displays look at:

http://www.parallax.com/Store/Components/Other/tabid/157/CategoryID/32/List/0/SortField/0/Level/a/ProductID/194/Default.aspx

http://www.parallax.com/Store/Microcontrollers/BASICStampModules/tabid/134/List/1/ProductID/55/Default.aspx?txtSearch=lcd+displays&SortField=ProductName%2cProductName

Here is a whole collection of LCD displays coving a range of price points.

http://www.parallax.com/Store/Accessories/Displays/tabid/159/CategoryID/34/List/0/Level/a/Default.aspx?SortField=ProductName,ProductName

If you have a need to do a fair amount of floating point math then check out the math coprocessors for the microcontrollers.

http://www.parallax.com/Store/Components/IntegratedCircuits/TimeMathCoprocessors/tabid/617/CategoryID/82/List/0/SortField/0/Level/a/ProductID/244/Default.aspx

http://www.parallax.com/Store/Components/IntegratedCircuits/TimeMathCoprocessors/tabid/617/CategoryID/82/List/0/SortField/0/Level/a/ProductID/401/Default.aspx

I think that you'll find everything you need available from this one source for the project you have in mind. I have the professional prototype board, floating point processor, a 2 line LCD display that plugs in to the prototype board and several of the SX28 chips myself. I'm still waiting to get the USB programming key. Right now I have to barrow my friend's serial version of the programming key to try out some design ideas.

--
Regards,
Leland C. Scott
KC8LDO

"RFI-EMI-GUY" <Rhyolite@NETTALLY.COM> wrote in message
news:YB5Rj.55753$Q52.26207@bignews9.bellsouth.net...
>
> I have a project I would like to build, and this would be for me a first
> time PIC controller project.
>
> I am looking for a PIC to do the following:
>
> 1. Address 17 parallel binary weighted bits (need at least 17 I/O's in
> addition to inputs from (2) below and outputs for LCD (3) below.
> 2. Have a keypad or rotary encoder to select combinations of the above
> bits.
> 3. An LCD display of a frequency generated by the PLL device attached to
> it per instructions below in (4).
> 4. Be able to enter a frequency such as 2300.6375 MHz, and do the math
> to subtract an IF frequency and divide the resultant frequency by some
> multiplier to address the parallel bits.
>
> The PIC should be available with an evaluation board containing an LCD
> display a keypad or rotary encoder. I do not want to have to design a
> circuit board for a one time project.
>
> For background, I have a Scientific Atlanta synthesizer that is designed
>   to generate a frequency in the range of 100.2x to 110.7x MHz to phase
> lock a microwave brick oscillator used for a C band satellite up and
> downconvertor. The unit has an external BCD switch which is designed to
> display 3200.XX to 4200.XX MHz and I wish to re purpose it for a
> different frequency band.
>
> Any recommendations?
>
>
>
>
> --
> Joe Leikhim K4SAT
> "The RFI-EMI-GUY"�
>
> "Treason doth never prosper: what's the reason?

> For if it prosper, none dare call it treason."
>
> "Follow The Money" ;-P

```
From -4436490176233986510
X-Google-Thread: fc2a5,fb30d88847dcc9c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 03 May 2008 23:16:53 -0500
Reply-To: "Leland C. Scott" <kc8ldo@arrl.net>
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <f6031172-ef5e-434e-a80f-25ff508a718a@l64g2000hse.googlegroups.com>
Subject: Re: Toroid inductor distortion
Date: Sun, 4 May 2008 00:17:10 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <5aadnaEL1OUopYDVnZ2dnUVZ_qCunZ2d@comcast.com>
Lines: 66
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 68.41.138.160
X-Trace: sv3-TBjCpiFI650qBA/K+YaOzm8Zgw96et9eex0ljwQce+DAVBSd6InZYKE/
HXbVoEy02J10ETmNaFUaa3i!
jVBz7+8uAh6HWbcYbRZ233WcUfNiDjsPW8Z1cndT6JwbZDf0ZaxhFDk9+N0kkJBe/Qo47urKCtGU!
fbXrVI7OU3h6Wjutd5BjpKI0DlVOeg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:15602
```

Did you look at the B-H curves for the material you're using? Any magnetic material will be non-linear to some degree. Normally the lower the peak flux density you operate the material at the more linear the B-H curve. Generally ferrite will have lower losses compared to powered iron. However powered iron has more tolerance to small DC bias in the core without saturating the material. Which brings up another point you should not operate the core with a DC current flowing through the winding if you can avoid it. The best you can do is find the combination that provides the inductance you need while operating the core material at the lowest flux level you can get away with using which tends to suggest using a high permeability material using the least number of turns to get the needed inductance. The flux density is

proportional to the number of turns on the core and the current in the wire
(ampere-turns which is the "B" field on the B-H curves). As you noticed the
higher permeability material seems to work better, that 's what I would have
expected. That's my 2 cents worth of advice.

--
Regards,
Leland C. Scott
KC8LDO

"K7ITM" <k7itm@msn.com> wrote in message
news:f6031172-ef5e-434e-a80f-25ff508a718a@l64g2000hse.googlegroups.com...
>I have an interest in making RF filters with low distortion (for
> example, as preselection filters for receivers). I've found that very
> often I need to use air-core coils to get the low distortion I want,
> but it would be convenient if I could use powdered iron or ferrite
> core toroids to get higher Q at low frequencies without having to make
> the coils physically big. I've always assumed that powdered iron
> would give me the best results, but someone suggested I try low-
> permeability ferrite. I just did some experiments with that. I wound
> three toroids, all 0.37 inch OD cores; one is on mix 2 powdered iron,
> and the other two are on type 68 and type 67 ferrite. I put each
> coil in a simple 1MHz high pass filter: two 2.2nF caps in series,
> with the coil connected between them to ground. I tested for harmonic
> distortion with a 1MHz input, and for the 2.42MHz intermod product
> with 0.62MHz and 1.52Mhz inputs.
>
> With about +16dBm coming out of the test filter at 1MHz, I measured
> second harmonic at about -95dBc for the T37-2, -90dBc for the FT37-67
> and -57 for the FT37-68; the third was at -74dBc, -61dBc and -51dBc
> for the three coils in the same order.
>
> The 2.42MHz intermod, with each tone at +18.5dBm out of the combiner,
> measured -71dBc, -58dBc and -38dBc for the coils, again in the same
> order.
>
> My conclusion from this is that at least these two ferrites aren't
> going to help me in my search for a better low-distortion core
> material, but at the same time, it was interesting to note that the
> higher permeability -67 performed better by far than the lower
> permeability -68. It gives me some hope that if the ferrite materials
> guys went looking for a formulation that would be specifically as low-
> distortion as they could get, they might find something pretty good.
>
> Before someone asks, no, I didn't run a T37-6 core coil along with
> these. I expect it would be a little better than the T37-2. And I've
> measured a few coils wound on (unknown formulation) powdered iron rods
> that show significantly lower distortion than those on toroid cores;
> but of course those have a large "air gap" and relatively high
> external field.
>
> Cheers,
> Tom

From 7148339950585708145
X-Google-Thread: fc2a5,f488ad77d8ce7a2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews2.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14pre (X11/20071018)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 12BA6 -or- 12BE6 AM BC Low-Power Transmitter Help Please.
References: <4819f67d$0$30234$4c368faf@roadrunner.com>
<tkak14ptsb6nqjjl03q48qbu06glbqfiif@4ax.com>
<pan.2008.05.01.22.04.00.139589@localhost.localdomain>
In-Reply-To: <pan.2008.05.01.22.04.00.139589@localhost.localdomain>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 38
Message-ID: <_vkTj.70130$vr3.55029@bignews2.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcbomljdmelmdhbhjlinhpibdmhglmjhdnidmi
hcgjhfliojekgfgddkolkobmjgifojbkojilnahjifhnncfiobilhdfgepjkpjggmpilneogppkimn
NNTP-Posting-Date: Sun, 04 May 2008 11:21:30 EDT
Organization: BellSouth Internet Group
Date: Sun, 04 May 2008 15:22:25 +0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:15603

geek wrote:
> On Thu, 01 May 2008 16:55:04 -0400, Mike wrote:
>
>> On Thu, 01 May 2008 11:56:16 +0800, Ty Unes <riverty@gmail.com> wrote:
>>
>>> I have a handful of 12BA6 and 12BE6 tubes. I also could use an AM
>>> broadcast band transmitter for use around the house. I was wondering if
>>> these tubes could be used for a 1 or 2 tube transmitter in the BC band
>>> at 100mw or lower. Searching on the internet, I have found a few
>>> circuits all using different tubes but not these.
>>>
>>> I love building and troubleshooting tube circuits but I lack the
>>> knowledge to "engineer" a circuit using these tubes. I wonder if someone
>>> would be kind enough to offer some advice on how I could get this done.
>>> Do you have a schematic of a circuit that would use these tubes? Is it
>>> even possible with these tubes? Is it a fairly easy task for someone
>>> with the knowledge to create a schematic for this?
>>>
>>> Thanks for your time.

>>>
>>> Ty Unes - OP, Ks.
>>
>> Take a look at this one. http://www.dogstar.dantimax.dk/tubestuf%20/amtx-1.htm
>> The problem will be finding a crystal for an unused frequency in your area.
>
> I have that exact transmitter here - it'll take synthesized RF OK if
> you want to get fancy and have no xtal :-)
>
> Cheers,
> __
> Gregg

I built one just like that using a 14A7 loktal tube (same as 12SA7).
Mine wasn't crystal controlled, I used an oscillator coil from a BCB set
tuned with a 365pf variable to set the frequency, and a 2.5mh rf choke
in the plate. Worked great.

I also went 'high power' with a 2 tube bcb transmitter using an 6F6
oscillator modulated by another 6F6 (250v on plates).

```
From -6484293465806686053
X-Google-Thread: fc2a5,77ba27d5105a7115,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!npeer02.iad!news.highwinds-media.com!
cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny04.POSTED!c6c65f63!
not-for-mail
From: "Toby" <josdek2@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Modify Astron Power Supply
Lines: 6
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 080504-0, 05/04/2008), Outbound message
X-Antivirus-Status: Clean
Message-ID: <i8vTj.791$b%1.295@trndny04>
Date: Mon, 05 May 2008 03:27:10 GMT
NNTP-Posting-Host: 71.188.152.54
X-Complaints-To: abuse@verizon.net
X-Trace: trndny04 1209958030 71.188.152.54 (Sun, 04 May 2008 23:27:10 EDT)
NNTP-Posting-Date: Sun, 04 May 2008 23:27:10 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15604
```

I have an Astron RS-20A, 20amp 12v fixed DC supply. I've heard that people
have modified this model to become a variable voltage supply but have not
found any schematics etc for this mod. Can anyone point me in the right
direction? Thanks!

From -7078732543989892433
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.earthlink.com!news.earthlink.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 05 May 2008 01:04:12 -0500
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <i8vTj.791$b%1.295@trndny04>
Subject: Re: Modify Astron Power Supply
Date: Mon, 5 May 2008 02:04:09 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.225.35.56
X-Trace: sv3-DqJ2r4WY/
BHdHqxyuKtJhRzEsdpHquJDGsaD2ysV6nkgumNzlCaO4LX1Azes5x9XXFehb4C2gZmS5d9!
gzo3R9cr27B5R75boWurJMYlnZKN5YOi4T7DQZ8550kGS/ymJP2NQSUDtyxgKTyQJZwuCQzf0nGx!Rle/
O8VUt9IDrd6dmNBhBI41cmHnPI6NyXh8Sw==
X-Complaints-To: abuse@earthlink.com
X-DMCA-Complaints-To: abuse@earthlink.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com rec.radio.amateur.homebrew:15605

"Toby" <josdek2@aol.com> wrote in message news:i8vTj.791$b%1.295@trndny04...
>I have an Astron RS-20A, 20amp 12v fixed DC supply. I've heard that people
>have modified this model to become a variable voltage supply but have not
>found any schematics etc for this mod. Can anyone point me in the right
>direction? Thanks!
>

Here is the schematic for a 35, it should ve similar to the 20 except for
an extra pass transistor or two.

http://www.repeater-builder.com/astron/pix/astron-vs35m.jpg

```
From 5410989498190164363
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!news-
out.octanews.net!indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Modify Astron Power Supply
Date: Sun, 04 May 2008 23:51:08 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.05.05.06.51.07.884804@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 24
Organization: Octanews
NNTP-Posting-Date: 05 May 2008 01:51:09 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15606

On Mon, 05 May 2008 02:04:09 -0500, Ralph Mowery wrote:

>
> "Toby" <josdek2@aol.com> wrote in message news:i8vTj.791$b%1.295@trndny04...
>>I have an Astron RS-20A, 20amp 12v fixed DC supply. I've heard that people
>>have modified this model to become a variable voltage supply but have not
>>found any schematics etc for this mod. Can anyone point me in the right
>>direction? Thanks!
>>
>
> Here is the schematic for a 35, it should ve similar to the 20 except for
> an extra pass transistor or two.
>
> http://www.repeater-builder.com/astron/pix/astron-vs35m.jpg

I modded one of those significantly. Too long ago to remember the exact
thing I did, but DO put that crowbar SCR anode on the collector of the
pass transistors. If it trips as is, you kiss the current meter and
expensive current sense resistor goodbye.

Cheers,
--
Gregg




From -1456427247924578386
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
```

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Path: g2news1.google.com!postnews.google.com!m73g2000hsh.googlegroups.com!not-for-
mail
From: mrhaney <w4pqw@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Modify Astron Power Supply
Date: Mon, 5 May 2008 06:29:18 -0700 (PDT)
Organization: http://groups.google.com
Lines: 11
Message-ID: <10114ded-ce95-4dfe-9c3c-a7440888c695@m73g2000hsh.googlegroups.com>
References: <i8vTj.791$b%1.295@trndny04>
NNTP-Posting-Host: 72.216.40.68
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1209994158 5838 127.0.0.1 (5 May 2008 13:29:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 5 May 2008 13:29:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000hsh.googlegroups.com; posting-host=72.216.40.68;
     posting-account=iDa5ggkAAADrhtwpj3fwoB8ZHtIo_pzj
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     FunWebProducts; .NET CLR 2.0.50727; .NET CLR 3.0.04506.648; .NET CLR
     3.5.21022),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15607

On May 4, 10:27=A0pm, "Toby" <josd...@aol.com> wrote:
> I have an Astron RS-20A, 20amp 12v fixed DC supply. I've heard that people=

> have modified this model to become a variable voltage supply but have not
> found any schematics etc for this mod. Can anyone point me in the right
> direction? Thanks!

If you will install a 2500 ohm pot between pin 5 and 6 on the
regulator chip ,that will give you variable output.. I agree with the
use of the crowbar circuit, saves damaging your equipment and damaging
the power supply too.. GL   W4PQW


From 5035057679725159820
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.germany.com!
feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Modify Astron Power Supply
Message-ID: <51nu141fm7nbn8500lrbl9qlv8t1nk5t3g@4ax.com>
References: <i8vTj.791$b%1.295@trndny04>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
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Content-Transfer-Encoding: 7bit
Lines: 26
Date: Mon, 05 May 2008 22:12:43 +0300
NNTP-Posting-Host: 85.77.224.250
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1210014761 85.77.224.250 (Mon, 05 May 2008 22:12:41 EEST)
NNTP-Posting-Date: Mon, 05 May 2008 22:12:41 EEST
Organization: Saunalahti Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:15608

On Mon, 05 May 2008 03:27:10 GMT, "Toby" <josdek2@aol.com> wrote:

>I have an Astron RS-20A, 20amp 12v fixed DC supply. I've heard that people
>have modified this model to become a variable voltage supply but have not
>found any schematics etc for this mod. Can anyone point me in the right
>direction? Thanks!

While the output voltage of practically any regulated linear power supply can be varied by changing one or two resistors, one should remember that the power dissipation in the series pass transistors will increase significantly, if voltages much below the nominal voltage is required, thus you may have to increase the number of series pass transistors or at least increase the heatsink surface 2-4 times the original.

Also you may have to use some foldback current limitation system to keep the series pass transistor dissipation at a reasonable level e.g. when driving car head lights or other nearly short circuit loads.

When fully understanding these issues, the commercially available devices can be quite interesting building blocks, when creating power supplies for your own needs.

Paul OH3LWR

From 7428184626389675563
X-Google-Thread: fc2a5,fb30d88847dcc9c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!26g2000hsk.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Toroid inductor distortion
Date: Mon, 5 May 2008 12:16:12 -0700 (PDT)
Organization: http://groups.google.com
Lines: 41
Message-ID: <fa8d3742-dd22-47a1-a2e1-a93d9e03d7d1@26g2000hsk.googlegroups.com>
References: <f6031172-ef5e-434e-a80f-25ff508a718a@l64g2000hse.googlegroups.com>

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     <5aadnaEL1OUopYDVnZ2dnUVZ_qCunZ2d@comcast.com>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1210014973 17332 127.0.0.1 (5 May 2008 19:16:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 5 May 2008 19:16:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 26g2000hsk.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.14)
     Gecko/20080404 Firefox/2.0.0.14,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15609
```

On May 3, 9:17 pm, "Leland C. Scott" <kc8...@arrl.net> wrote:

> Did you look at the B-H curves for the material you're using? Any magnetic material will be non-linear to some degree. Normally the lower the peak flux density you operate the material at the more linear the B-H curve. Generally ferrite will have lower losses compared to powered iron. However powered iron has more tolerance to small DC bias in the core without saturating the material. Which brings up another point you should not operate the core with a DC current flowing through the winding if you can avoid it. The best you can do is find the combination that provides the inductance you need while operating the core material at the lowest flux level you can get away with using which tends to suggest using a high permeability material using the least number of turns to get the needed inductance. The flux density is proportional to the number of turns on the core and the current in the wire (ampere-turns which is the "B" field on the B-H curves). As you noticed the higher permeability material seems to work better, that 's what I would have expected. That's my 2 cents worth of advice.
>
> --

I had no particular interest in looking at the B-H curves, since it's distortion in filters I'm interested in, and that's easy for me to test directly.

With respect to flux density: there seems to be a bit of a disconnect between what I know and what you've written. From Faraday's law of magnetic induction, I expect that for the same inductance with fewer turns, the flux density must be higher: if the inductance is the same, the voltage must be the same for a given current at the test frequency. The same voltage with fewer turns around the same cross-section core implies higher flux density. No?

So far, my tests suggest that you can't draw any conclusions one way or the other from only the relative permeability of the core material. Ideally, you should do tests in the actual application. My testing is slightly derailed (I hope temporarily) because the cores I got that were supposed to be FT50-67 are clearly something different, almost certainly FT50-61. I am testing all the other low-to-medium permeability (F)T-50 cores I have available at the moment.

Cheers,
Tom

From 1939952555545780610
X-Google-Thread: fc2a5,1e5f463c9ceb107e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews6.bellsouth.net.POSTED!aba369ab!not-for-mail
Message-ID: <481F8685.7010405@NETTALLY.COM>
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Suggestions for a PIC for a one time project.
References: <YB5Rj.55753$Q52.26207@bignews9.bellsouth.net>
<kKadnb4OUdxxrYDVnZ2dnUVZ_iydnZ2d@comcast.com>
In-Reply-To: <kKadnb4OUdxxrYDVnZ2dnUVZ_iydnZ2d@comcast.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 66
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcbolenhcicgiihaflaanofeapgepmhjmelepd
kkniakbmhaegdaihbihliohechmkebondnhmgimenceljknhmdockndckeihihchbgeilhnelphejo
NNTP-Posting-Date: Mon, 05 May 2008 18:12:39 EDT
Organization: BellSouth Internet Group
Date: Mon, 05 May 2008 18:13:25 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:15610

Leland C. Scott wrote:
> I don't know why everybody always seems to recommend the Microchip series of
> controllers, they aren't the only thing out there.
>
> Check out the chips from Parallax, namely the SX28.
>
> http://www.parallax.com/Store/Microcontrollers/SXChips/tabid/138/CategoryID/15/
List/0/SortField/0/Level/a/ProductID/355/Default.aspx
>
> If you need more I/O then you can use the surface mount version that has
> more pins.
>
> http://www.parallax.com/Store/Microcontrollers/SXChips/tabid/138/CategoryID/15/
List/0/SortField/0/Level/a/ProductID/354/Default.aspx
>
> Or try using the BASIC Stamp computer system on a board.
>
> http://www.parallax.com/tabid/214/Default.aspx

>
> For prototype work check out the system below:
>
> http://www.parallax.com/Store/Microcontrollers/BASICStampModules/tabid/134/
txtSearch/28138/List/1/ProductID/123/Default.aspx?
SortField=ProductName%2cProductName
>
> http://www.parallax.com/Store/Microcontrollers/SXTools/tabid/139/CategoryID/17/
List/0/SortField/0/Level/a/ProductID/494/Default.aspx
>
> The programming software and a BASIC compiler are all free downloads from
> Parallax's web site.
>
> For keyboards and LCD displays look at:
>
> http://www.parallax.com/Store/Components/Other/tabid/157/CategoryID/32/List/0/
SortField/0/Level/a/ProductID/194/Default.aspx
>
> http://www.parallax.com/Store/Microcontrollers/BASICStampModules/tabid/134/List/
1/ProductID/55/Default.aspx?
txtSearch=lcd+displays&SortField=ProductName%2cProductName
>
> Here is a whole collection of LCD displays coving a range of price points.
>
> http://www.parallax.com/Store/Accessories/Displays/tabid/159/CategoryID/34/List/
0/Level/a/Default.aspx?SortField=ProductName,ProductName
>
> If you have a need to do a fair amount of floating point math then check out
> the math coprocessors for the microcontrollers.
>
> http://www.parallax.com/Store/Components/IntegratedCircuits/
TimeMathCoprocessors/tabid/617/CategoryID/82/List/0/SortField/0/Level/a/ProductID/
244/Default.aspx
>
> http://www.parallax.com/Store/Components/IntegratedCircuits/
TimeMathCoprocessors/tabid/617/CategoryID/82/List/0/SortField/0/Level/a/ProductID/
401/Default.aspx
>
> I think that you'll find everything you need available from this one source
> for the project you have in mind. I have the professional prototype board,
> floating point processor, a 2 line LCD display that plugs in to the
> prototype board and several of the SX28 chips myself. I'm still waiting to
> get the USB programming key. Right now I have to barrow my friend's serial
> version of the programming key to try out some design ideas.
>
>

Thanks all; I have been getting a lot of great suggestions. I will
whittle them down until I find the hardware I need and then order up an
evaluation board to practice on. I also note that some of the vendors
offer training nearby, so maybe I will go in for a class once I figure
out how to write a few lines of code.

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From -5684818760151950813
X-Google-Thread: fc2a5,fb30d88847dcc9c7
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 05 May 2008 19:59:42 -0500
Reply-To: "Leland C. Scott" <kc8ldo@arrl.net>
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <f6031172-ef5e-434e-a80f-25ff508a718a@l64g2000hse.googlegroups.com>
<5aadnaEL1OUopYDVnZ2dnUVZ_qCunZ2d@comcast.com> <fa8d3742-dd22-47a1-a2e1-
a93d9e03d7d1@26g2000hsk.googlegroups.com>
Subject: Re: Toroid inductor distortion
Date: Mon, 5 May 2008 21:00:01 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <asadnbUUM9_jMILVnZ2dnUVZ_tOtnZ2d@comcast.com>
Lines: 46
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 68.41.138.160
X-Trace: sv3-8v2lwi/
EszCCpNuxsK8Wl8Zuj95c7L1ok8G1r7d7179vzNvoTB2IqC40YOaZI9FkeydcxU0S3CZZkfI!
CFkuQlOBnEsbjWDu2UotwB5L7HTrSX/crdMo/hCxj5wF5IMRw2jfNUHcIuqQbrCpQ1wiRHH+DJfG!N/
j6c3VWUSDbG+j9HU1tNPQp+MUI6g==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com rec.radio.amateur.homebrew:15611

"K7ITM" <k7itm@msn.com> wrote in message
news:fa8d3742-dd22-47a1-a2e1-a93d9e03d7d1@26g2000hsk.googlegroups.com...
>
> I had no particular interest in looking at the B-H curves, since it's
> distortion in filters I'm interested in, and that's easy for me to

> test directly.

Looking at the B-H curves will save you the trouble of testing core material that is obviously non-linear. If the B-H curve is perfectly linear there would be no distortion in the signals. Some material from just a quick look at the curves would eliminate them from consideration without the time wasted testing them.

http://www.ferroxcube.com/appl/info/3B46.pdf

>
> With respect to flux density: there seems to be a bit of a disconnect between what I know and what you've written. From Faraday's law of magnetic induction, I expect that for the same inductance with fewer turns, the flux density must be higher: if the inductance is the same, the voltage must be the same for a given current at the test frequency. The same voltage with fewer turns around the same cross-section core implies higher flux density. No?

With all things being equal that's true, however not all core material reacts the same. As you can see from the link above things are a bit more complex than they at first appear. Somebody could do a PhD thesis on the subject of designing low distortion magnetic components.

http://info.ee.surrey.ac.uk/Workshop/advice/coils/mu/

>
> So far, my tests suggest that you can't draw any conclusions one way or the other from only the relative permeability of the core material.

I think it's worth another look myself.

--
Regards,
Leland C. Scott
KC8LDO

From -5435726629304581100
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!npeer02.iad!news.highwinds-media.com!cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny01.POSTED!c6c65f63!not-for-mail
From: "Toby" <josdek2@aol.com>
Newsgroups: rec.radio.amateur.homebrew
References: <i8vTj.791$b%1.295@trndny04>
Subject: Re: Modify Astron Power Supply

Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 080505-0, 05/05/2008), Outbound message
X-Antivirus-Status: Clean
Message-ID: <BfPTj.2748$Eh7.2548@trndny01>
Date: Tue, 06 May 2008 02:20:17 GMT
NNTP-Posting-Host: 71.188.152.54
X-Complaints-To: abuse@verizon.net
X-Trace: trndny01 1210040417 71.188.152.54 (Mon, 05 May 2008 22:20:17 EDT)
NNTP-Posting-Date: Mon, 05 May 2008 22:20:17 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15612

OK Thanks everyone for your input. Might post when I have it done.....Toby
"Toby" <josdek2@aol.com> wrote in message news:i8vTj.791$b%1.295@trndny04...
>I have an Astron RS-20A, 20amp 12v fixed DC supply. I've heard that people
>have modified this model to become a variable voltage supply but have not
>found any schematics etc for this mod. Can anyone point me in the right
>direction? Thanks!
>

From -2302503241021426211
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!w4g2000prd.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Modify Astron Power Supply
Date: Tue, 6 May 2008 16:25:50 -0700 (PDT)
Organization: http://groups.google.com
Lines: 39
Message-ID: <d52cef37-9511-41a1-8d8c-e4a044f3912d@w4g2000prd.googlegroups.com>
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
    <pan.2008.05.05.06.51.07.884804@localhost.localdomain>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 6 May 2008 23:25:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w4g2000prd.googlegroups.com; posting-host=204.108.8.5;
    posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf

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     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2452

On May 5, 2:51=A0am, geek <g...@localhost.localdomain> wrote:
> On Mon, 05 May 2008 02:04:09 -0500, Ralph Mowery wrote:
>
> > "Toby" <josd...@aol.com> wrote in messagenews:i8vTj.791$b%1.295@trndny04=
...
> >>I have an Astron RS-20A, 20amp 12v fixed DC supply. I've heard that peop=
le
> >>have modified this model to become a variable voltage supply but have no=
t
> >>found any schematics etc for this mod. Can anyone point me in the right
> >>direction? Thanks!
>
> > Here is the schematic for a 35, it should ve similar to the 20 except fo=
r
> > an extra pass transistor or two.
>
> >http://www.repeater-builder.com/astron/pix/astron-vs35m.jpg
>
> I modded one of those significantly. Too long ago to remember the exact
> thing I did, but DO put that crowbar SCR anode on the collector of the
> pass transistors. If it trips as is, you kiss the current meter and
> expensive current sense resistor goodbye.
>
> Cheers,
> __
> Gregg

Ive modified a couple of these(similar) power supplies by doubling the
the number of pass transisors. In the process I also double the value
of the emitter
resistors. If they were .05 I make them .1. Seemed like a reasonable
thing to do. Any opinions?

Geez, I never thought about the SCR but you are right. While I have
added crowbar circuits and placed them before the pass transistors I
hadnt noticed that this connection on these power supplies needed to
be relocated.

Jimmie



From 8770275774920084614
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
```

Subject: Re: Modify Astron Power Supply
Date: Tue, 06 May 2008 18:21:15 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.05.07.01.21.14.173454@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
<pan.2008.05.05.06.51.07.884804@localhost.localdomain> <d52cef37-9511-41a1-8d8c-e4a044f3912d@w4g2000prd.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 51
Organization: Octanews
NNTP-Posting-Date: 06 May 2008 20:21:16 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:2453

On Tue, 06 May 2008 16:25:50 -0700, jimmie68 wrote:

> On May 5, 2:51�am, geek <g...@localhost.localdomain> wrote:
>> On Mon, 05 May 2008 02:04:09 -0500, Ralph Mowery wrote:
>>
>> > "Toby" <josd...@aol.com> wrote in messagenews:i8vTj.791$b%1.295@trndny04...
>> >>I have an Astron RS-20A, 20amp 12v fixed DC supply. I've heard that people
>> >>have modified this model to become a variable voltage supply but have not
>> >>found any schematics etc for this mod. Can anyone point me in the right
>> >>direction? Thanks!
>>
>> > Here is the schematic for a 35, it should ve similar to the 20 except for
>> > an extra pass transistor or two.
>>
>> >http://www.repeater-builder.com/astron/pix/astron-vs35m.jpg
>>
>> I modded one of those significantly. Too long ago to remember the exact
>> thing I did, but DO put that crowbar SCR anode on the collector of the
>> pass transistors. If it trips as is, you kiss the current meter and
>> expensive current sense resistor goodbye.
>>
>> Cheers,
>> __
>> Gregg
>
> Ive modified a couple of these(similar) power supplies by doubling the
> the number of pass transisors. In the process I also double the value
> of the emitter
> resistors. If they were .05 I make them .1. Seemed like a reasonable
> thing to do. Any opinions?

Yeah, go 0.1 ohms. The 0.05 ohm resistors are useless for practical
purposes.

> Geez, I never thought about the SCR but you are right. While I have
> added crowbar circuits and placed them before the pass transistors I
> hadnt noticed that this connection on these power supplies needed to
> be relocated.
>
> Jimmie

And there should be a fuse in there to blow between the filter cap and crowbar.

The supply was actually 3rd world designed and made I swear.

Cheers,

--
Gregg

From -5751867716805113586
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!feeder2.news.saunalahti.fi!
reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Modify Astron Power Supply
Message-ID: <i2d224d9senqutjs95c1om23cit1ce1hae@4ax.com>
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
<pan.2008.05.05.06.51.07.884804@localhost.localdomain>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 47
Date: Wed, 07 May 2008 08:08:44 +0300
NNTP-Posting-Host: 85.77.243.243
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1210136919 85.77.243.243 (Wed, 07 May 2008
08:08:39 EEST)
NNTP-Posting-Date: Wed, 07 May 2008 08:08:39 EEST
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:2454

On Sun, 04 May 2008 23:51:08 -0700, geek <geek@localhost.localdomain>
wrote:

>On Mon, 05 May 2008 02:04:09 -0500, Ralph Mowery wrote:
>
>>
>> "Toby" <josdek2@aol.com> wrote in message news:i8vTj.791$b%1.295@trndny04...

>>>I have an Astron RS-20A, 20amp 12v fixed DC supply. I've heard that people
>>>have modified this model to become a variable voltage supply but have not
>>>found any schematics etc for this mod. Can anyone point me in the right
>>>direction? Thanks!
>>>
>>
>> Here is the schematic for a 35, it should ve similar to the 20 except for
>> an extra pass transistor or two.
>>
>> http://www.repeater-builder.com/astron/pix/astron-vs35m.jpg

The diagram looks strange to me, with a direct connection from the
higher voltage driver supply (e.g. pin 12 of the 723 or collector of
Q2) to the base of the series pass transistors.

With a higher separate driver power supply the driver current should
flow through the Q2 driver transistor, through the small resistors
into the base connection of the series pass transistor. Thus in the
diagram the direct connection from the driver supply to the series
pass transistor base should be removed.

>I modded one of those significantly. Too long ago to remember the exact
>thing I did, but DO put that crowbar SCR anode on the collector of the
>pass transistors. If it trips as is, you kiss the current meter and
>expensive current sense resistor goodbye.

When using crowbars, there should be a some kind of fuse on the
feeding side, preferably immediately after the filter capacitor.

If the crowbar is before the series pass transistors, it is a good
idea to put a large reverse biased diode across the series transistors
(CR7 in the diagram), which would discharge any large capacitors on
the regulated side through the crowbar. Without the diode, the
collector side would be at 0 V after the crowbar tripped, but the
emitters could still be at +12 V due to any large capacitors on the
regulated side.

Paul OH3LWR

```
From -2071659498920987289
X-Google-Thread: fcc6e,1ef6beef2a306b64,start
X-Google-Thread: 11480d,1ef6beef2a306b64,start
X-Google-Thread: 108122,1ef6beef2a306b64,start
X-Google-Thread: fc2a5,1ef6beef2a306b64,start
X-Google-Thread: 10b9c8,1ef6beef2a306b64,start
X-Google-Attributes:
gidfcc6e,gid11480d,gid108122,gidfc2a5,gid10b9c8,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
```

198.186.194.250.MISMATCH!news-xxxfer.readnews.com!news-out.readnews.com!
transit3.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1207548301@panix.com>
Followup-To: poster
Date: 7 May 2008 02:05:02 -0400
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 09 Jun 2008 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1210140301@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1210140302 2005 166.84.1.2 (7 May 2008 06:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 7 May 2008 06:05:02 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news2.google.com rec.radio.amateur.antenna:16550 rec.radio.amateur.dx:485
rec.radio.amateur.equipment:2364 rec.radio.amateur.homebrew:2455
rec.radio.info:511

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval.

This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

From -5031076532423061416
X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!npeer02.iad!news.highwinds-media.com!cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny08.POSTED!c6c65f63!not-for-mail
From: "Toby" <josdek2@aol.com>
Newsgroups: rec.radio.amateur.homebrew
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
<pan.2008.05.05.06.51.07.884804@localhost.localdomain>
<i2d224d9senqutjs95c1om23cit1ce1hae@4ax.com>
Subject: Re: Modify Astron Power Supply
Lines: 58
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 080507-0, 05/07/2008), Outbound message
X-Antivirus-Status: Clean
Message-ID: <yNmUj.26$Td.18@trndny08>
Date: Wed, 07 May 2008 18:45:50 GMT
NNTP-Posting-Host: 71.188.152.54
X-Complaints-To: abuse@verizon.net
X-Trace: trndny08 1210185950 71.188.152.54 (Wed, 07 May 2008 14:45:50 EDT)
NNTP-Posting-Date: Wed, 07 May 2008 14:45:50 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2456

After reading all these posts, the modification is likely over my head. I think I'll sell it and find a nice used variable supply. Thanks for all in the input.
"Paul Keinanen" <keinanen@sci.fi> wrote in message
news:i2d224d9senqutjs95c1om23cit1ce1hae@4ax.com...
> On Sun, 04 May 2008 23:51:08 -0700, geek <geek@localhost.localdomain>
> wrote:
>

```
>>On Mon, 05 May 2008 02:04:09 -0500, Ralph Mowery wrote:
>>
>>>
>>> "Toby" <josdek2@aol.com> wrote in message
>>> news:i8vTj.791$b%1.295@trndny04...
>>>>I have an Astron RS-20A, 20amp 12v fixed DC supply. I've heard that
>>>>people
>>>>have modified this model to become a variable voltage supply but have
>>>>not
>>>>found any schematics etc for this mod. Can anyone point me in the right
>>>>direction? Thanks!
>>>>
>>>
>>> Here is the schematic for a 35, it should ve similar to the 20 except
>>> for
>>> an extra pass transistor or two.
>>>
>>> http://www.repeater-builder.com/astron/pix/astron-vs35m.jpg
>
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> Q2) to the base of the series pass transistors.
>
> With a higher separate driver power supply the driver current should
> flow through the Q2 driver transistor, through the small resistors
> into the base connection of the series pass transistor. Thus in the
> diagram the direct connection from the driver supply to the series
> pass transistor base should be removed.
>
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>>pass transistors. If it trips as is, you kiss the current meter and
>>expensive current sense resistor goodbye.
>
> When using crowbars, there should be a some kind of fuse on the
> feeding side, preferably immediately after the filter capacitor.
>
> If the crowbar is before the series pass transistors, it is a good
> idea to put a large reverse biased diode across the series transistors
> (CR7 in the diagram), which would discharge any large capacitors on
> the regulated side through the crowbar. Without the diode, the
> collector side would be at 0 V after the crowbar tripped, but the
> emitters could still be at +12 V due to any large capacitors on the
> regulated side.
>
> Paul OH3LWR
>
>



From -8320868000597357257
```

X-Google-Thread: fc2a5,77ba27d5105a7115
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!wn14feed!
worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
From: Bruce in alaska <fast@btpost.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Modify Astron Power Supply
Organization: Bruce's Trading Post
References: <i8vTj.791$b%1.295@trndny04>
<lLWdnSJsft_BPoPVnZ2dnUVZ_umdnZ2d@earthlink.com>
<pan.2008.05.05.06.51.07.884804@localhost.localdomain> <d52cef37-9511-41a1-8d8c-e4a044f3912d@w4g2000prd.googlegroups.com>
<pan.2008.05.07.01.21.14.173454@localhost.localdomain>
User-Agent: MT-NewsWatcher/3.5.3b2 (PPC Mac OS X)
Message-ID: <fast-2D6DAD.13294907052008@netnews.worldnet.att.net>
Lines: 18
Date: Wed, 07 May 2008 21:29:57 GMT
NNTP-Posting-Host: 12.12.208.76
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1210195797 12.12.208.76 (Wed, 07 May 2008 21:29:57 GMT)
NNTP-Posting-Date: Wed, 07 May 2008 21:29:57 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:2457

In article <pan.2008.05.07.01.21.14.173454@localhost.localdomain>,
geek <geek@localhost.localdomain> wrote:

> And there should be a fuse in there to blow between the filter cap and
> crowbar.
>
> The supply was actually 3rd world designed and made I swear.
>
> Cheers,
> __
> Gregg

Better yet, put in a Resettable Circuit Breaker, as you can never find
the right fuse, and they ALWAYS blow at the worst possible moment.....

--
Bruce in alaska
add <path> after <fast> to reply

From -8785462540570296123
X-Google-Thread: fc2a5,f488ad77d8ce7a2
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!m73g2000hsh.googlegroups.com!not-for-mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Re: 12BA6 -or- 12BE6 AM BC Low-Power Transmitter Help Please.
Date: Thu, 8 May 2008 14:05:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 65
Message-ID: <b25c0e83-1394-47be-bfd9-a2732cc9440b@m73g2000hsh.googlegroups.com>
References: <4819f67d$0$30234$4c368faf@roadrunner.com>
<tkak14ptsb6nqjjl03q48qbu06glbqfiif@4ax.com>
     <pan.2008.05.01.22.04.00.139589@localhost.localdomain>
<_vkTj.70130$vr3.55029@bignews2.bellsouth.net>
NNTP-Posting-Host: 142.162.129.19
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1210280756 18870 127.0.0.1 (8 May 2008 21:05:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 May 2008 21:05:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000hsh.googlegroups.com; posting-host=142.162.129.19;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.homebrew:2458

On May 4, 1:22=A0pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
> geek wrote:
> > On Thu, 01 May 2008 16:55:04 -0400, Mike wrote:
>
> >> On Thu, 01 May 2008 11:56:16 +0800, Ty Unes <rive...@gmail.com> wrote:
>
> >>> I have a handful of 12BA6 and 12BE6 tubes. I also could use an AM
> >>> broadcast band transmitter for use around the house. I was wondering i=
f
> >>> these tubes could be used for a 1 or 2 tube transmitter in the BC band=

> >>> at 100mw or lower. Searching on the internet, I have found a few
> >>> circuits all using different tubes but not these.
>
> >>> I love building and troubleshooting tube circuits but I lack the
> >>> knowledge to "engineer" a circuit using these tubes. I wonder if someo=
ne
> >>> would be kind enough to offer some advice on how I could get this done=
.
> >>> Do you have a schematic of a circuit that would use these tubes? Is it=

> >>> even possible with these tubes? Is it a fairly easy task for someone
> >>> with the knowledge to create a schematic for this?
>
> >>> Thanks for your time.
>
> >>> Ty Unes - OP, Ks.
>
> >> Take a look at this one.http://www.dogstar.dantimax.dk/tubestuf%20/amtx=
-1.htm
> >> The problem will be finding a crystal for an unused frequency in your a=
rea.
>
> > I have that exact transmitter here - it'll take synthesized RF OK if
> > you want to get fancy and have no xtal :-)
>
> > Cheers,
> > __
> > Gregg
>
> I built one just like that using a 14A7 loktal tube (same as 12SA7).
> Mine wasn't crystal controlled, I used an oscillator coil from a BCB set
> tuned with a 365pf variable to set the frequency, and a 2.5mh rf choke
> in the plate. =A0Worked great.
>
> I also went 'high power' with a 2 tube bcb transmitter using an 6F6
> oscillator modulated by another 6F6 (250v on plates).- Hide quoted text -
>
> - Show quoted text -

The 12BE6 being a mixer/converter could be a good choice for the RF
oscillator and an audio stage to mix with it? 12BA6 is an RF/AF
pentode (vari mu?).
Searching for circuits using 12BE6 etc.
Those tubes IIRC have 0.15 amp heaters. One way to heat them, on 120
volts AC, without using a transformer is to series the heater with a
capacitor across the AC line. Since the heater voltage is such a small
percentage of the total to be dropped you can for practical purposes
ignore a vector diagram/calculation. (R and C vectors etc.) Viz:
120 minus 12 =3D 108 volts (to be dropped)
Capacitor reactance (Xc) therefore 108/0.15 =3D 720 ohms
Xc =3D 1/2pi x sq. root F x C
At  60 hertz a one mfd. cap is 'about' 2800 ohms.
So 'roughly' an AC rated 3 to 4 mfd. motor starting cap (or
equivalent) will work transformer-less.


From 7246557480489103490
X-Google-Thread: fc2a5,d2c9fa6b35b4269a,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.velocitywest.net!
news.velocitywest.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 09 May 2008 00:35:17 -0500
Date: Thu, 08 May 2008 22:35:15 -0700
From: "H. P. Friedrichs" <nospam@please.com>
User-Agent: Thunderbird 2.0.0.14 (Windows/20080421)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Need Connector Information for Icom IC-718 Power Cable
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
```

```
Content-Transfer-Encoding: 7bit
Message-ID: <Lf2dnVnJBb0If77VnZ2dnUVZ_hSdnZ2d@velocitywest.net>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-3Q6PkJY2mzEYSxNK+i/
cPbFH1zm43gMuYPcyl34SAF40czsuFgwpc4FbVlLeyosFf2YZQZEXpS3RVMv!
kUuTea9YJ9kCPOgaTHkGCtPNO6cDMU4ub7j31rvFZKaZDAtKeRVlk/m561o3OKEL6y9zaKtp6n/T!
u9FcCBQ9lHin4piUMwy+REsA
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news2.google.com rec.radio.amateur.homebrew:2459
```

Hello-

I recently picked up a used IC-718 real cheap. To the extent that outward appearances matter, this thing looks nearly brand-new.

However, I was not able to get the power cable... no problem, I thought, I'll just make my own.

Well, the connector on the back looks like something Molex might make, but I haven't been able to confirm that, or determine what the part number would be.

I spent some time at Molex's web site, and some time at Mouser's, and while I've found similar connector shells, nothing matches. I'm beginning to wonder if the connector was custom-made for ICOM.

Anybody know where I can find the connector I need?

Pete
AC7ZL

hpf (atsign) gainbroadband (dot) com

```
From 1290811008572355237
X-Google-Thread: fc2a5,be618fdf28af2ff9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder.news-service.com!
newsfeed.freenet.de!feed.xsnews.nl!border-2.ams.xsnews.nl!ramfeed2.eweka.nl!
eweka.nl!hq-usenetpeers.eweka.nl!69.16.177.246.MISMATCH!cyclone03.ams!
news.ams.newshosting.com!npeersf02.ams!newsfe15.ams2.POSTED!53ab2750!not-for-mail
From: "Theo" <theodore.twyler@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
References: <481a3ee6$0$12976$4c368faf@roadrunner.com> <32cb516c-
cb89-47f9-896b-7e9b359a5ea8@b9g2000prh.googlegroups.com>
<s04o141mnom7bi6e419a0trs32sj98i99e@4ax.com>
Subject: Re: 455Khz Coil ID Please
Lines: 3
```

X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <9dUUj.239$Nk5.115@newsfe15.ams2>
NNTP-Posting-Host: 86.15.197.154
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe15.ams2 1210322885 86.15.197.154 (Fri, 09 May 2008 04:48:05 EDT)
NNTP-Posting-Date: Fri, 09 May 2008 04:48:05 EDT
Organization: virginmedia.com
Date: Fri, 9 May 2008 09:47:59 +0100
Xref: g2news2.google.com rec.radio.amateur.homebrew:2460

Answer the man - WHY do you want to build a transmitter for 455Khz?

From 1977604771031722841
X-Google-Thread: fc8b1,9bc365f89f24162f,start
X-Google-Thread: fc2a5,9bc365f89f24162f,start
X-Google-Attributes: gidfc8b1,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
nlpi068.nbdc.sbc.com.POSTED!35cb456c!not-for-mail
From: "N9WOS" <Don't@bug.me>
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Beam power tetrode, beam power pentode, or just a pentode?
Lines: 55
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <oe1Vj.17063$2g1.1895@nlpi068.nbdc.sbc.com>
NNTP-Posting-Host: 66.72.70.87
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi068.nbdc.sbc.com 1210359828 ST000 66.72.70.87 (Fri, 09 May 2008
15:03:48 EDT)
NNTP-Posting-Date: Fri, 09 May 2008 15:03:48 EDT
Organization: at&t http://my.att.net/
X-UserInfo1:
[[PAPDCAOPUAW]TX]BCBNWX@RJ_XPDLMN@GZ_GYO^BTBTSUBYFWEAE[YJLYPIWKHTFCMZKVMB^[Z^DOBRV
VMOSPFHNSYXVDIE@X\BUC@GTSX@DL^GKFFHQCCE\G[JJBMYDYIJCZM@AY]GNGPJD]YNNW\GSX^GSCKHA[]
@CCB\[@LATPD\L@J\\PF]VR[QPJN
Date: Fri, 9 May 2008 14:03:23 -0500
Xref: g2news2.google.com rec.radio.amateur.boatanchors:3164
rec.radio.amateur.homebrew:2461

A subject that has been getting under my skin recently.

The proper name for specific tubes

It seems that people, even the manufacturers can not figure out exactly what type of tube they own, are selling, or even producing. You have various people call the exact same tube all of the above (Beam power tetrode, beam power pentode, or pentode). You have manufacturer data sheets calling it something that on actual inspection, it is not.

For example. The tubes..

6AG5

6AH6

6BC6

6CB6

6GM6

6BZ6

...(on and on)..

Second section of..

6AM8

6GH8

6U8

...(on and on)..

All of them have an electrode structure that upon close inspection that looks like/is a beam power tetrode. But the sales pages, and even the datasheets call it a pentode. The datasheets show it with a suppressor grid, where it actually has beam forming plates. What gives?.

You have a few people that have determined what they actually are by direct visual inspection, and actually call them what they are, but that is few and far between.

Is it just that the curves are close to a pentode, so the manufacturers are trying to avoid confusion to the average end user?

And as far as people calling them beam power pentode, unless they actually have three grids, and beam forming plates, then I don't consider it to be a beam power pentode.

Is it just a big international conspiracy to confuse me?

```
From 2987915497893452372
X-Google-Thread: fc8b1,9bc365f89f24162f
X-Google-Thread: fc2a5,9bc365f89f24162f
X-Google-Attributes: gidfc8b1,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!i76g2000hsf.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: Beam power tetrode, beam power pentode, or just a pentode?
Date: Fri, 9 May 2008 13:55:16 -0700 (PDT)
Organization: http://groups.google.com
Lines: 47
Message-ID: <c8eefd51-531a-466d-a469-b5ffa4dd32eb@i76g2000hsf.googlegroups.com>
References: <oe1Vj.17063$2g1.1895@nlpi068.nbdc.sbc.com>
NNTP-Posting-Host: 170.121.15.46
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1210366517 20687 127.0.0.1 (9 May 2008 20:55:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 9 May 2008 20:55:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i76g2000hsf.googlegroups.com; posting-host=170.121.15.46;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news2.google.com rec.radio.amateur.boatanchors:3167
rec.radio.amateur.homebrew:2462

On May 9, 3:03=A0pm, "N9WOS" <Do...@bug.me> wrote:
> All of them have an electrode structure that upon close inspection that
> looks like/is a beam power tetrode. But the sales pages, and even the
> datasheets call it a pentode. The datasheets show it with a suppressor gri=
d,
> where it actually has beam forming plates. What gives?.
>
> You have a few people that have determined what they actually are by direc=
t
> visual inspection, and actually call them what they are, but that is few a=
nd
> far between.
>
> Is it just that the curves are close to a pentode, so the manufacturers ar=
e
> trying to avoid confusion to the average end user?
>
> And as far as people calling them beam power pentode, unless they actually=

> have three grids, and beam forming plates, then I don't consider it to be =
```

a
> beam power pentode.
>
> Is it just a big international conspiracy to confuse me?

RCA did the right thing: they always called their tubes "beam power tubes", completely sidestepping the tetrode vs pentode terminology.

I think RCA was careful to not call them "beam power pentodes" because some European company held European patents on power pentodes with similar beam-forming plates. I think RCA was trying really really hard to not have them identified as pentodes. Licensing and intellectual property rights to tubes' innards was something that companies were really protective of - look at the wording on the flap of any tube box up through the 70's to see some legaleze.

Although my gut feeling is that they are actually pentodes (maybe if you don't run the beam/supressor grid out to a pin it doesn't count as an electrode?) because those beam forming plates gotta be a tube element.

The ARRL (almost) always drew beam power tubes like 6146's and 807's as tetrodes and classified them as tetrodes in their tube charts. You will note that 6146's and 807's don't run the beam/suppressor grid out to its own pin but make it share the cathode pin.

Tim.

```
From 7727434498941506676
X-Google-Thread: fc2a5,d2c9fa6b35b4269a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder.news-service.com!tudelft.nl!
txtfeed1.tudelft.nl!feed.xsnews.nl!border-1.ams.xsnews.nl!68.142.88.75.MISMATCH!
hwmnpeer01.ams!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe05.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Lf2dnVnJBb0If77VnZ2dnUVZ_hSdnZ2d@velocitywest.net>
Subject: Re: Need Connector Information for Icom IC-718 Power Cable
Lines: 37
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <%W4Vj.26$_K1.1@newsfe05.lga>
NNTP-Posting-Host: lcecbhddceddjnpchhgnkcjkhihlplce
X-Complaints-To: abuse@charter.net
X-Trace:
dbkajaeeceiapgbcoldnlfdnfaaakleebejlcocohnmaaamplcecbhddceddjnpckbcpgfjmlmeoplocop
adfbddbnhohnkkaopkgdplboaibgmmfdmicipohdondpbdhfgdhgbgadeblehn
```

NNTP-Posting-Date: Fri, 09 May 2008 16:16:11 MST
Date: Fri, 9 May 2008 19:16:05 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:2463

I assume that the 718 uses the same 6 pin, Molex-looking plug that most recent HF radios use. Digikey has a Molex connector similar, but not quite the same. An Exacto knife can make it fit, but a better bet is to go to a place like Tower Electronics who sells these connectors as a generic HF Radio power plug.

At http://www.pl-259.com/page4.html they call it a "Kenwood, Icom & Yaesu 6-pin DC plug, with 4 pins & boot"

..

"H. P. Friedrichs" <nospam@please.com> wrote in message
news:Lf2dnVnJBb0If77VnZ2dnUVZ_hSdnZ2d@velocitywest.net...
> Hello-
>
> I recently picked up a used IC-718 real cheap. To the extent that outward appearances matter, this thing looks nearly brand-new.
>
> However, I was not able to get the power cable... no problem, I thought, I'll just make my own.
>
> Well, the connector on the back looks like something Molex might make, but I haven't been able to confirm that, or determine what the part number would be.
>
> I spent some time at Molex's web site, and some time at Mouser's, and while I've found similar connector shells, nothing matches. I'm beginning to wonder if the connector was custom-made for ICOM.
>
> Anybody know where I can find the connector I need?
>
> Pete
> AC7ZL
>
> hpf (atsign) gainbroadband (dot) com

From 1900952744183727900
X-Google-Thread: fc2a5,be618fdf28af2ff9
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!roadrunner.com!not-for-mail
From: Ty Unes <riverty@kc.rr.com>
Subject: Re: 455Khz Coil ID Please

Newsgroups: rec.radio.amateur.homebrew
References: <481a3ee6$0$12976$4c368faf@roadrunner.com>
    <32cb516c-cb89-47f9-896b-7e9b359a5ea8@b9g2000prh.googlegroups.com>
    <s04o141mnom7bi6e419a0trs32sj98i99e@4ax.com>
    <9dUUj.239$Nk5.115@newsfe15.ams2>
User-Agent: pan 0.119 (Karma Hunters)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Date: 10 May 2008 03:16:20 GMT
Lines: 7
Message-ID: <48251384$0$30489$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 24.27.152.8
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:2464

On Fri, 09 May 2008 09:47:59 +0100, Theo wrote:

> Answer the man - WHY do you want to build a transmitter for 455Khz?

LOL - Sorry. I don't want to build a 455Khz transmitter. The reason for
the post was to simply identify the coil in the picture. It has been done.
Thanks.

From 6154169375267186111
X-Google-Thread: f849b,85f81511afa1df8a
X-Google-Thread: fc2a5,85f81511afa1df8a
X-Google-Attributes: gidf849b,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder.news-service.com!feeder.news-
service.com!border1.nntp.ams.giganews.com!nntp.giganews.com!uio.no!
newsfeed1.funet.fi!newsfeeds.funet.fi!nntp.inet.fi!central1.inet.fi!inet.fi!
read4.inet.fi.POSTED!53ab2750!not-for-mail
From: Tauno Voipio <tauno.voipio@INVALIDiki.fi>
User-Agent: Mozilla Thunderbird 1.0.7 (Macintosh/20050923)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: comp.arch.embedded,rec.radio.amateur.homebrew
Subject: Re: Sheet-beam tubes (6ar8, 7360, etc) as analog multipliers
References: <78ednUcEOqONq2zanZ2dnUVZ_qygnZ2d@cpinternet>
<cZqIj.183$Qx5.54@read4.inet.fi> <4800ff37$0$25925$4c368faf@roadrunner.com>
In-Reply-To: <4800ff37$0$25925$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 32
Message-ID: <PjpMj.183$mN4.122@read4.inet.fi>
Date: Sun, 13 Apr 2008 15:06:23 GMT
NNTP-Posting-Host: 88.195.108.207
X-Complaints-To: abuse@inet.fi
X-Trace: read4.inet.fi 1208099183 88.195.108.207 (Sun, 13 Apr 2008 18:06:23 EEST)
NNTP-Posting-Date: Sun, 13 Apr 2008 18:06:23 EEST

```
Organization: Sonera Customer
Xref: g2news1.google.com comp.arch.embedded:67194 rec.radio.amateur.homebrew:15475

Jimmie D wrote:
>>Just a memory from tens of years ago:
>>
>>The 7360 made a decent balanced modulator, but it is,
>>by definition, extremely sensitive for external electric
>>and magnetic fields.
>>
>>--
>>
>>Tauno Voipio (OH2UG)
>>tauno voipio (at) iki fi
>
>
> You just answered a problem thats had been nagging me for over 30 years.
> Now I know why the SSB transmitter I built had such an annoying hum in it.
>
> I never thought about it being affected by a magnetic field.
>
> Jimmie
>
>

Think about a magnetically-deflected TV picture tube.

I noticed the problem, when my Eico 753 (around 1968) worked
fine when the power supply was on the right side, but had
a rough hum reported by other stations, if the power supply
box was moved to the other flank.

--

Tauno Voipio (OH2UG)


From -3450414576539956751
X-Google-Thread: fc2a5,eab8fcacb23a200a,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!wn13feed!
worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA:PRE-MOVING SALE:PARTS & RADIOS...
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <uqsMj.183210$cQ1.22903@bgtnsc04-news.ops.worldnet.att.net>
```

NNTP-Posting-Host: 1d36bbf97e963789eb5c20612cc453b9
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1208111898
1d36bbf97e963789eb5c20612cc453b9 (Sun, 13 Apr 2008 18:38:18 GMT)
NNTP-Posting-Date: Sun, 13 Apr 2008 18:38:18 GMT
Organization: AT&T Worldnet
Date: Sun, 13 Apr 2008 18:38:18 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15476

Have started to list many parts and some of my personal antique radios
(see Facebook: at
www.facebook.com/album.php?aid=2000463&l=c8e18&id=1110063202) for sale
before
moving orders come through:---IE: Atwater Kent #35 on Monday--

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

Tnx for looking, Heytubeguy

From -2545423139532889200
X-Google-Thread: fc2a5,381f594177899fa9,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,BIG5
Path: g2news1.google.com!news3.google.com!postnews.google.com!
b1g2000hsg.googlegroups.com!not-for-mail
From: "Gian, I7SWX" <i7swx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: PA3AKE - High Performance Front-End Update
Date: Sun, 13 Apr 2008 13:52:36 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <c0deb349-963b-41ec-a7ab-2c4a92244848@b1g2000hsg.googlegroups.com>
NNTP-Posting-Host: 82.51.8.91
Mime-Version: 1.0
Content-Type: text/plain; charset=Big5
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1208119957 13416 127.0.0.1 (13 Apr 2008 20:52:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 13 Apr 2008 20:52:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b1g2000hsg.googlegroups.com; posting-host=82.51.8.91;
     posting-account=udTjrAoAAAAiwxU1IW0RllxgGCbsoHkm
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR
     3.0.04506.648),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15477

Hi all,

for those of you interested on high performance analog front-end I have the pleasure to inform that Martein, PA3AKE, has just updated his website.

Please look at the following:
o Front-end Board
=84X H-Mode Mixer
=84X Roofing Filters
=84X   SSB
=84X   CW

in particular the release of the front-end board with additional 500Hz CW roofing filter. This update is complete with schematics, part list, PCB artwork and last but not least extensive performance measurements.

http://www.xs4all.nl/~martein/pa3ake/hmode/index.html

Enjoy the visit and reading

73

Gian
I7SWX

From 9175937459680285517
X-Google-Thread: fc2a5,53d4e4da9a087fe5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!
newshosting.com!69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <47f9a9ff$0$1095$4c368faf@roadrunner.com>
<3e8ab734-7c72-46bf-89c3-730c4175f571@n1g2000prb.googlegroups.com>
Subject: Re: Cable repair
Date: Sun, 13 Apr 2008 21:06:41 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 29
Message-ID: <4802ae20$0$9509$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 75.191.181.199
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15478

"AF6AY" <LenAnderson@ieee.org> wrote in message
news:3e8ab734-7c72-46bf-89c3-730c4175f571@n1g2000prb.googlegroups.com...
On Apr 6, 9:58?pm, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
> I had a backlog of a couple dozen patch cables to repair. Usually ony one
> end is damaged so I use the capacitance function on my multimeter to
> measure
> the wire to wire capacitance from each end of the wire. When I find a wire
> that reads near 0 capcitance compared to the others I know which wire it
> is
> and which end it is on.. I was surprised none of my co-workers were aware
> of
> this trick as a lot of them have near 30 years of experience an are no
> dummies so I thought I would pass this along.
>
> Jimmie

I hate to say this, but if you want to measure continuity of a wire or
a coax center conductor, you use the OHMS function. [sigh...]

The ohmmeter function doesnt tell you which end is bad.
I use this on LAN jumpers mike cords, foot switches,coax connectors, cannon
plugs...
where the cable is known to be open but the question is now just which end.
Gee I thought I was clear on this. [sigh...]

Jimmie

From -8412686264273430787
X-Google-Thread: fc2a5,64218b443cb94261
X-Google-Thread: 107ada,64218b443cb94261
X-Google-Attributes: gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out02b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc03.POSTED!1bc6af47!
not-for-mail
From: "JB" <ml43@verizon.net>
Newsgroups: rec.radio.amateur,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <0001HW.C416A18A02E8435FB01AD9AF@news.sf.sbcglobal.net>
<o77Jj.18730$bC6.7879@trnddc08>
Subject: Re: Variable inductor, DIY?
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <ANKMj.12270$tw3.4972@trnddc03>
Date: Mon, 14 Apr 2008 15:31:44 GMT
NNTP-Posting-Host: 71.104.209.84
X-Complaints-To: abuse@verizon.net

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X-Trace: trnddc03 1208187104 71.104.209.84 (Mon, 14 Apr 2008 11:31:44 EDT)
NNTP-Posting-Date: Mon, 14 Apr 2008 11:31:44 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15479
rec.radio.amateur.misc:43448

I never measured a Variac before.  Might be higher than you were looking
for.  That's variable for sure.  A good thing to have around the shop.

"JB" <ml43@verizon.net> wrote in message
news:o77Jj.18730$bC6.7879@trnddc08...
> This is the answer:
> http://www.qsl.net/in3otd/variodes.html
>
>
> "Esther & Fester Bestertester" <not@me.really> wrote in message
> news:0001HW.C416A18A02E8435FB01AD9AF@news.sf.sbcglobal.net...
> > I'd like to build a variable inductor with what I have around my shop
> (lots
> > of bits n' pieces, but no cores). I need it to work in the area of 20-30
> mH,
> > 1A, 25-30 KHz.
> >
> > Is this something do-able? Is there something available off-the-shelf?
> >
> > Suggestions of how to go about it would be greatly appreciated.
> >
> > FBt
> >
>
>




From 2055695706379063068
X-Google-Thread: fc2a5,f7bc980f1ec0b0c9,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!wn13feed!worldnet.att.net!
bgtnsc04-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA:COLLINS NOS & USED PARTS + STUFF
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <EbSMj.189881$cQ1.82046@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: d326b4b20510d0f01740afa1dcf603b2
X-Complaints-To: abuse@worldnet.att.net
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```
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1208217444
d326b4b20510d0f01740afa1dcf603b2 (Mon, 14 Apr 2008 23:57:24 GMT)
NNTP-Posting-Date: Mon, 14 Apr 2008 23:57:24 GMT
Organization: AT&T Worldnet
Date: Mon, 14 Apr 2008 23:57:24 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15480

Take a look at the Collins radio NOS and some used radio parts at:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

Have a few others coming later as well.  Need to get rid of this stuff
as

a move in the near future.  73  Heytubeguy




From 6402895457957719512
X-Google-Thread: fc2a5,debd70ef8a1c93e9,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 14 Apr 2008 19:50:03 -0500
Date: Mon, 14 Apr 2008 19:50:06 -0500
From: Henry <wa0goz@arrl.net>
Reply-To:  wa0goz@arrl.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11) Gecko/
20071127 Firefox/2.0.0.11
X-Accept-Language: en-us
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Open form coils for sale - reprise
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 080414-1, 04/14/2008), Outbound message
X-Antivirus-Status: Clean
Message-ID: <3J6dnZRiXrUmZp7VnZ2dnUVZ_gGdnZ2d@comcast.com>
Lines: 31
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.118.236.147
X-Trace: sv3-
uWbAv20U5RxhpyMxV+y2UDKCr5b5k2maC+rtHuDyPNc4pCxnmNqEg+CMPILjVMQqwGCCrWjJYh4CQn7!
PWuEY7bv45mPeqixB6kx8xMAylCQugs9NGf180Hvla5TOi3u7VX9BOHPwicHAyUAl+qow7UUXIYh!
8sDqpFwvPXA4im81ECR2S5dSttUOUp0=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:15481

Open form coils for sale.

I have the following new open form coils left for sale.

Air Dux coils

(4)	416T	1/2" dia X 2" long	15t/in	$4 each
(3)	432T	1/2" dia X 2" long	30t/in	$4 each
(3)	804T	1" dia X 3" long	4t/in	$5 each
(2)	816T	1" dia X 3" long	16t/in	$5 each

B & W coils

(1)	3008	5/8" dia X 1 7/8" long	32t/in	$4

Unknown manufacturer coils (but look like Air Dux)

(3)	1 1/4" dia X 10" long	6t/in	$18 each
(1)	1 1/4" dia X 10" long	10t/in	$18 each
(1)	2" dia X 10" long	4t/in	$18
(1)	2" dia X 2 1/4 long	10t/in	$4
(1)	2" dia X 7/8" long	10t/in	$2

Lot price totals $153. I will discount if you buy the whole lot.

Prices are plus shipping in CONUS. I need your zip code to figure shipping.

Henry WA0GOZ
wa0goz@arrl.net

From 9086153548445461040
X-Google-Thread: 1109af,7b899ec86a6f9dfa,start
X-Google-Thread: 107ada,7b899ec86a6f9dfa,start
X-Google-Thread: 107cee,7b899ec86a6f9dfa,start
X-Google-Thread: f4e7d,7b899ec86a6f9dfa,start
X-Google-Thread: 1130cb,7b899ec86a6f9dfa,start
X-Google-Thread: fc2a5,7b899ec86a6f9dfa,start
X-Google-Thread: fc8b1,7b899ec86a6f9dfa,start
X-Google-Thread: 10b9c8,7b899ec86a6f9dfa,start
X-Google-Attributes:
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!bloom-beacon.mit.edu!senator-bedfellow.mit.edu!dreaderd!not-for-mail
Newsgroups:
rec.radio.swap,rec.radio.amateur.misc,sci.electronics.misc,ne.forsale,ne.general,r

ec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.info
Subject: ** FLEA at MIT **   Sunday April 20th   Cambridge MA
Summary: Buy Sell SWAP Ham Radio Electronics Computers 9AM - 2PM
Expires: 4/22/08
Followup-To: poster
Approved: rec-radio-info@panix.com
Distribution: na
Organization: Massachvsetts Institvte of Technology
Keywords: Hamfest Fleamarket SWAPFEST Computers Ham Radio Electronics
From: w1gsl@mit.edu (Steven L. Finberg)
Date: 15 Apr 2008 01:56:36 GMT
Lines: 131
Message-ID: <48040b54$0$301$b45e6eb0@senator-bedfellow.mit.edu>
NNTP-Posting-Host: GRUMPY-FUZZBALL.MIT.EDU
X-Trace: 1208224596 senator-bedfellow.mit.edu 301 18.7.18.69
Xref: g2news1.google.com rec.radio.swap:18884 rec.radio.amateur.misc:43462
sci.electronics.misc:19024 ne.forsale:2260 ne.general:17831
rec.radio.amateur.homebrew:15482 rec.radio.amateur.boatanchors:14495
rec.radio.info:756

This coming Sunday....
the Season's First.... FLEA at MIT

****
****

Summary: Buy Sell SWAP   Ham Radio   Electronics Computers   9AM - 2PM

*** !!!! In our Traditional GARAGE and the adjacent lot !!!! ****
so come rain or shine or super heat the Flea is on !!!

!! ** More Buyers PARKING is available ** for details see
http://web.mit.edu/w1gsl/Public/flyer

<FF>
********* $1 buyers discount with hardcopy of this notice ********

COMPUTERS - ELECTRONICS - HAM RADIO - COMPUTERS - ELECTRONICS - HAM RADIO

FLEA all SUMMER at MIT
Sunday April 20th 2008
9AM-2PM

Come to the city for a great flea - plenty of free parking.

MIT's electronics and ham radio flea will take
place on the third Sunday of each month this summer,
April thru October.

There is tailgate space for over 600 sellers and
free, off-street parking for >2000 cars!

Buyers admission is $5 (you get $1 off if you're lucky enough to have a copy of our ad) and sellers spaces are $20 for the first and $15 for each additional at the gate.

The flea will be held on Albany between Mass Ave and Main streets in Cambridge; right in the Kendall Square area from 9AM to 2PM, with sellers set-up time starting at 7AM.

SEASON PASS + Advance Seller Discount

A sellers discount season pass is available which offers a 30% discount. By prepaying you get a discount and earlier admission. See the registration form.

*** Attention Sellers ***

Prepaid vendors.. Season Pass or monthly, will be admitted FIRST.
Separate lines will form prior to gate opening for prepaid and nonprepaid vendors

!! RAIN or SHINE !! Have no fear of rain, a covered well illuminated tailgate area is available for all sellers (6'8" clearance).

Talk-in: 145.23- (PL 88.5) W1BOS/R and
W1XM/R-449.725/444.725 (PL 114.8/2A).

Sponsors: MIT Electronics Research Society
MIT UHF Repeater Association (W1XM)
MIT Radio Society (W1MX)
Harvard Wireless Club (W1AF)

For more info / advanced reservations 617 253 3776 (M-F 9-5)

********** $1 buyers discount with hard copy of this notice ************

<FF>

Mail the coupon below by the 5th of the April to be a Prepaid Vendor.

FLEA at MIT   2008 Rates

SELLERS

To use your prepaid spaces the named vendor MUST be present.
Rates include one admission per space.

Season Pass   Sellers admission to all seven meets this year
$99 First Space
$70 Each Additional space
Must be received by April 20th.

Advance $17 First space
$12 Additional Spaces
Must be received by the 10th of the month.

Gate Admission $20 First Space
$15 Additional Spaces
Admission is after the prepaid vendors.

Early Bird Buyer -Admission after the prepaid vendor line is admitted. ~ 7:15AM
** You may not sell. **
$15 per person at the gate.
$70 Season Early Bird Buyer

cut and return
****
FLEA at MIT 2008 Advance Space Application 4/08

____April ____May ____June ____ July ____Aug ___Sept ____Oct
@ $17 for the first each month + $12 each additional
____Season Pass @ $99 ____ Additional Season Spaces @ $70 ___EBB @$70

Name ________________________ Call __________ $ Included_________

Address ________________________ Phone __________ Make Check to
The MIT Radio Society
City ____________________ State _______ Zip _______ PO Box 397082
Cambridge MA 02139
E-mail ____

****
Steve Finberg W1GSL w1gsl@mit.edu
PO Box 82 MIT Br Cambridge MA 02139-7082 617 258 3754
****

```
From -8005127198134849822
X-Google-Thread: fc2a5,8682dca16fa518dc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
```

```
69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!roadrunner.com!not-
for-mail
Message-ID: <480469FB.9080302@rickfrazier.com>
Date: Mon, 14 Apr 2008 22:40:27 -1000
From: Rick Frazier <rickf@rickfrazier.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
Subject: Re: Availability of headset mic with RJ45 plug and 3.5mm plug for
 a  Kenwood?
References: <40487228-6044-41ef-b690-382bd6afe971@8g2000hse.googlegroups.com>
<J5WdnT_ESNjlQ2LanZ2dnUVZ8tmhnZ2d@pipex.net>
In-Reply-To: <J5WdnT_ESNjlQ2LanZ2dnUVZ8tmhnZ2d@pipex.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 35
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 76.83.137.53
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15483

Highland Ham wrote:
> fazamy wrote:
>
>> For easier ssb contesting, I want to be able to use a headset mic.  My
>> headset mic has 2  mini stereo plugs one for a mic input and the other
>> for speaker output.  My rig has a RJ45 jack on the front panel for a
>> mic input and a 3.5mm jack for audio outppput.
>> Is there a commercially available adapter cable that will allow me to
>> use my headset mic? --An adapter cable that can permit a 3.5mm to RJ45
>> mic input.  Or is there a headset mic that has a RJ45 plug and a 35mm
>> plug?
>
> =========================================
> RJ45 plug (8 fingers)is the same as the one used for ethernet
> connections.  So get a short ethernet cable with 2 fitted RJ45
> connectors ,cut-off 1 RJ45 connector + a piece of cable ,leaving a short
> piece of cable and a RJ45 connector.
> and fit on 2 of the 8 wires a mini stereo socket.
> Your transceiver manual/circuit diagramme should show which 2 of the 8
> wires are to be connected to the microphone . You should also be able to
> find the 2 wires for PTT.
>
> Just today I was shown a Yaesu transceiver with a microphone having a
> RJ45 connector for the microphone ,PTT and freq up & down push buttons.
> An ethernet cable plug fitted nicely in the transceiver's socket.
>
> Frank     GM0CSZ / KN6WH
Perhaps Heil...
I have a Pro Set Quiet Phone and another ProSet headset and they use
```

1/8" for the mic connection. I have adapters for various radios,
including one for an RJ-45 If the brain is working this evening...
Don't remember the connector for the headphones, and am not able to get
to radio room right now to check...

--Rick AH7H

From -7446899261678947930
X-Google-Thread: fc2a5,8a857807c53f13eb,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d26g2000prg.googlegroups.com!not-for-mail
From: "www.3asneakers.cn wholesale nike gucci prada sneakers" <sneakers12@126.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Www.3Asneakers.cn sell china cheap nike jordan1-23 af1&jordan dunk
     shox bally maxtn max87 max89 sneakers gucci prada timberland chanel mauri
     armani evisu hogan sneaker shoes wholesale lrg jeans bape jeans bbc jeand
     armani jeans redmonkey jeans seven jeans coogi jeans ect china cheapest
     wholesale
Date: Tue, 15 Apr 2008 05:25:53 -0700 (PDT)
Organization: http://groups.google.com
Lines: 61
Message-ID: <e2c6b483-a85f-4c25-b43a-b0e5169a8970@d26g2000prg.googlegroups.com>
NNTP-Posting-Host: 220.191.116.141
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1208262353 31571 127.0.0.1 (15 Apr 2008 12:25:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 15 Apr 2008 12:25:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d26g2000prg.googlegroups.com; posting-host=220.191.116.141;
     posting-account=681jcQoAAADlRL7AuE1mxZLOjslA5hwv
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
     SV1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15484

(www.3asneakers.cn) Discount Prada Sneakers china wholesale good.
(www.3asneakers.cn) wholesale china lacoste mens turbo low mix gucci
sneaker shoes for cheap.
(www.3asneakers.cn) Order Sneakers from China nike wholesale trainers
(www.3asneakers.cn) wholesale china cheap nike air jordan sneaker
shoes.
(www.3asneakers.cn) ordan key chain for air force 1 customized nike
jordan tennis shoes
(www.3asneakers.cn) wholesale bape t-shirt ED Hardy t-shirt wholesale
gucci shoes china
(www.3asneakers.cn) branded perfume wholesale china nike dunk sneakers
(www.3asneakers.cn) suppliers for sneakers wholesale shoes from
china

(www.3asneakers.cn) china wholesale nike jordan gucci prada sneakers
cheapest nike,nike dunk sneaker necklaces.
(www.3asneakers.cn) China Nike Factory Jordan Suppliers louis vuitton
bag
(www.3asneakers.cn) wholesale y3 trainers supplier wholesale cheapest
bape shoes wholesale jordans Nike Basketball Sneakers gucci sneakers
china china nike
wholesaler.
(www.3asneakers.cn) sneakers at wholesale women prada sneakers
suppliers of branded clothing sneaker wholesale chinese jordan
supplier wholesale jordans from china 2008 prada sneaker for men
(www.3asneakers.cn) wholesale china cheap evisu jeans jordans iphone
wholesale china lv women sandal shoes wholesale
(www.3asneakers.cn) Nike Basketball Sneakers nike wholesale china
discoun chanel sandals china air jordans versace jeans china wholesale
coogi sweater china wholesale gucci sneakers wholesale
jordan.wholesale cheapest bape shoes,wholesale jordans.
(www.3asneakers.cn) wholesale china lacoste mens turbo low mix gucci
sneaker shoes for cheap.
(www.3asneakers.cn) wholesale china cheap evisu jeans
(www.3asneakers.cn) gucci men sneakers women gucci sneakers Nike
Sneaker discount
(www.3asneakers.cn) wholesale cheap authentic gucci prada sneakers
(www.3asneakers.cn) disquared2 chanel mauri discount sneaker shoes
bally sneakers wholesale china
(www.3asneakers.cn) wholesale cheap timberland Air force one boots
cheap ugg boots
(www.3asneakers.cn) wholesale men gucci prada sneakers women sneaker
from china supplier
www.3asneakers.cn china wholesale mauri sneakers wholesale gucci
sneakers sneakers wholesale cheap wholesale sneakers prada
sneakers.com lv sandals wholesale gucci sneakers on sale louis vuitton
sneakers mens gucci sneakers air jordans wholesale prada shop in usa
wholesale
www.3asneakers.cn china nike dunk nike wholesale shoes china wholesale
gucci sneakers evisu jeans jordan wholesale manufacturer in china buy
D&G shoes in usa stores CHINA sneaker wholesale jordan spikike.com
chanel sneakers Kid Prada Sneaker
www.3asneakers.cn sneakers wholesale prada sneakers website wholesale
mauri shoes lv women sandal shoes wholesale   prada americas cup
sneakers mens prada sneakers women prada sneakers nike dunk sneakers
authentic jordan sneakers jordan retro sneakers
www.3asneakers.cn discount nike sneakers nike sneakers retro nike air
force ones nike dunks sb nike air max

From -5152429453583880728
X-Google-Thread: fc2a5,8682dca16fa518dc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!news.astraweb.com!
border1.a.newsrouter.astraweb.com!hwmnpeer01.ams!hwmnpeer01.lga!news.highwinds-
media.com!hw-filter.lga!newsfe06.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <40487228-6044-41ef-b690-382bd6afe971@8g2000hse.googlegroups.com>
<J5WdnT_ESNjlQ2LanZ2dnUVZ8tmhnZ2d@pipex.net> <480469FB.9080302@rickfrazier.com>
Subject: Re: Availability of headset mic with RJ45 plug and 3.5mm plug for a
Kenwood?
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <f52Nj.82$8U1.7@newsfe06.lga>
NNTP-Posting-Host: edmokfndckpegejpmhkjjkpbbiejaafi
X-Complaints-To: abuse@charter.net
X-Trace:
emlnjhpjaknjmmohgmoeimofopipoaimbnhdoofbonipaoikedmokfndckpegejpdfogoccdklnobnhdmf
cmdadijhnhlbobfodnkejgdfcbcphenfhhglmhhcfkciolecpcfdalnnloobep
NNTP-Posting-Date: Tue, 15 Apr 2008 06:29:47 MST
Date: Tue, 15 Apr 2008 09:09:21 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:15485

The adapters are per radio, and radios like Icoms with RJ45's have RJ45's on
the adapters. However, if I recall, OP had two mini plugs. Seems like the
Heil adapters have a mini and a 1/4"

..

"Rick Frazier" <rickf@rickfrazier.com> wrote in message
news:480469FB.9080302@rickfrazier.com...
> Highland Ham wrote:
>> fazamy wrote:

From 7652182789142168205
X-Google-Thread: fc2a5,4a5a52db5cf44d04
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <d5ce3035-b5a1-461e-989c-2076f2c0140d@u10g2000prn.googlegroups.com>
Subject: Re: 7360/6AR8 mixer configs
Date: Tue, 15 Apr 2008 10:55:27 -0400

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X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Lines: 22
Message-ID: <4804c1dc$0$30206$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 75.191.181.199
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15486


"Tim Shoppa" <shoppa@trailing-edge.com> wrote in message
news:d5ce3035-b5a1-461e-989c-2076f2c0140d@u10g2000prn.googlegroups.com...
> Looking at how I would configure a 7360-type mixer in the front end of
> a low-band (say 80M and 40M) receiver.
>
> Method A: To me, the most obvious way to do it is to feed the RF into
> the 7360's grid, and feed the deflection plates with balanced local
> oscillator input at circa 10 or 20 V P-P. Put a center-tapped
> transformer to the anodes and pull the output out of a winding.

Its been a long time since I used a 7360 but I did it exactly as you
described.
I used a toriod broadband transformer to feed the 7360 deflection plates
because I didnt want to have to switch in tuned circuit.
The band switching arrangement was cumbersome enough asit was. This was the
front end for a rx project I never finished. It did seem to work pretty well
when used it as a rx converter in front of an old Halicrafter radio.

Jimmie




From 2677569996037992914
X-Google-Thread: fc2a5,f68b733c90542524,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!postnews.google.com!
z24g2000prf.googlegroups.com!not-for-mail
From: ebayshoe@yahoo.cn
Newsgroups: rec.radio.amateur.homebrew
Subject: wholesale china sneaker nike jordan puma prada AF1 max shox r3 r4 tl
     tn  nz oz ltd max 90  shoes
Date: Tue, 15 Apr 2008 10:25:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 138
Message-ID: <f05dac1f-e8f7-4247-8c10-9394e0a32b35@z24g2000prf.googlegroups.com>
NNTP-Posting-Host: 121.205.202.248
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Content-Type: text/plain; charset=ISO-8859-1
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Content-Transfer-Encoding: 7bit
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 15 Apr 2008 17:25:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z24g2000prf.googlegroups.com; posting-host=121.205.202.248;
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     QQDownload 1.7),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15487
```

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wholesale Nike Air Max 2006 Shoes Shop
wholesale Nike Air Max 360 Catalogs
wholesale Nike Air Max Ltd Shoes Catalogs
wholesale Nike Air Max Tn Men's Shoes
wholesale Nike Air Max Tn 2 Women's Shoes
wholesale Nike Air Max Tn 3 Customize
wholesale Nike Air Max Tn 4 Shoes Customize
wholesale Nike Air Max Tn 6 Supply
wholesale Nike Shox NZ Shoes Supply
wholesale Nike Shox OZ Sale
wholesale Nike Shox TL Store
wholesale Nike Shox TL 2 Shoes Store

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wholesale Nike Shox Turbo Suppliers
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wholesale Nike Air Jordan 1 Seller
wholesale Nike Air Jordan 2 Shoes Seller
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wholesale Air Force 1 High Shoes Directory
wholesale Nike Air Force 1 Custom Importer
wholesale Air Force 1 Dollar Shoes Importer
wholesale Nike Air Force 1 Clear Sales
wholesale Air Force 1 Carving Shoes Sales
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wholesale Timberland Boots Low Sell
wholesale Timberland Boots Mid Shoes Buyer
wholesale Timberland Boots Womens Buyer
wholesale Adidas Good Year Buy
wholesale Adidas Running Shoes Buy
wholesale Adidas Football Shoes Selection
wholesale Adidas Basketball Shoes Discount
wholesale Adidas 35 Years 35th Anniversary
wholesale Adidas T MAC 3.5 4.5 5 6
wholesale Adidas 35 Years 35th Anniversary
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Wholesale Custom Jordans
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Jordans Retro Wholesale
Nike Air Jordan Wholesale
Nike Golf Wholesale
Wholesale Jordans
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Wholesale Basketball Shoes Nike
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Jordans Shoes Wholesale
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From 1293300097231413960
X-Google-Thread: fc2a5,53d4e4da9a087fe5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n1g2000prb.googlegroups.com!not-for-mail
From: AF6AY <LenAnderson@ieee.org>

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cable repair
Date: Tue, 15 Apr 2008 13:13:18 -0700 (PDT)
Organization: http://groups.google.com
Lines: 113
Message-ID: <0b32762a-a7d7-4f3b-af66-9281c2e24fdd@n1g2000prb.googlegroups.com>
References: <47f9a9ff$0$1095$4c368faf@roadrunner.com>
<3e8ab734-7c72-46bf-89c3-730c4175f571@n1g2000prb.googlegroups.com>
     <4802ae20$0$9509$4c368faf@roadrunner.com>
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NNTP-Posting-Date: Tue, 15 Apr 2008 20:13:19 +0000 (UTC)
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3.0.04506),gzip(gfe),gzip(gfe)
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     spider-ntc-ta03.proxy.aol.com[CFC87003] (Prism/1.2.1), HTTP/1.1
     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:15488
```

>"AF6AY" <LenAnderson@ieee.org> wrote in message
>news:3e8ab734-7c72-46bf-89c3-730c4175f571@n1g2000prb.googlegroups.com...
>On Apr 6, 9:58?pm, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
>> I had a backlog of a couple dozen patch cables to repair. Usually ony one
>> end is damaged so I use the capacitance function on my multimeter to
>> measure
>> the wire to wire capacitance from each end of the wire. When I find a wire
>> that reads near 0 capcitance compared to the others I know which wire it
>> is
>> and which end it is on.. I was surprised none of my co-workers were aware
>> of
>> this trick as a lot of them have near 30 years of experience an are no
>> dummies so I thought I would pass this along.
>>
>> Jimmie
>
>I hate to say this, but if you want to measure continuity of a wire or
>a coax center conductor, you use the OHMS function. [sigh...]

Don't get all bent out of shape because someone comments on your post.

Please get your attributes correct on who said what.

>The ohmmeter function doesnt tell you which end is bad.

Absolutely true but with a conditional (see below).

What is lacking is the METHOD and WHY it works. It can be said this way:

Cables all have distributed capacitance between conductors. Wire PAIRS, shielded from all other pairs in a cable, can usually use manufacturer's specs on capacity per hundred feet to locate a break or an open by measuring the capacity at one end.

1. If the capacity measures very low, the break is at that end.

2. If the capacity measures to the nominal value for that length, a break COULD be at the OTHER end...or it is really a good cable with no break. Only an Ohms test could determine which condition would apply there.

3. If the capacity measures somewhere between very low and nominal, the break is SOMEWHERE along the length of the wire pair.

For short wire pairs of 20 feet or less, (3) might not be useful.

One can generate the value of capacity per whatever length by measuring a good wire pair run and recording it for future checks.

The telephone folks have been measuring line pairs for at least a century, all without measuring any capacity of wire pairs, using only resistance. That's an extreme case since a loop to a central office can be as long as 5 miles.

At Rocketdyne Division of Boeing Aircraft Field Test Labs in the Santa Susannah mountains west of Canoga Park, CA, the 'Coca' space shuttle Main Engine test stand has a 1200 foot interconnecting tunnel from the engine test stand to the control blockhouse. Hundreds of wire pairs are laid in that plus at least another 400 feet (give or take) from each end of the tunnel to sensors and recorders. Techs there have been using the capacity measurement technique on wire pairs since at least 1980 (when I visited there first time). There are dozens of splices along each wire pair run, most being changes in sensor functions for various engines. Another extreme case, yes, few homebrewers will be making rocket engines with a ton (plus) of thrust. :-)

>I use this on LAN jumpers mike cords, foot switches,coax connectors, cannon
>plugs...
>where the cable is known to be open but the question is now just which end.

When it comes to MULTIPLE WIRE conductors in any cable, a capacity measurement is only approximate. Ideally, all other wires except the one being tested should be connected in common. If the other wires are 'floating' (unconnected to anything), they may or may not ADD to the capacitance of the test conductor to a local common. There is great variation on cable lay-ups (positioning within the cable bundle) and thus the distributed capacities will vary.

In cable assembly production testing, it is common to use a standard test fixture of matching connectors with each wire forming a giant conductive loop, a single wire that can drive an indicator or meter or buzzer for continuity. Over 90% of such cable assemblies will pass on the first test; the rest go to QC techs who inspect more closely. Yes, that is for production, not single cable checks.

Not all DMMs have built-in capacity measurement functions. A Simpson 260 doesn't. I have three DMMs but only the 4 1/2 digit one has such a capacity function. I use an old Data Precision handheld capacity meter or Neil Heckt's handy AADE L-C Meter for measuring capacity down to +/- 0.1 pFd resolution.

Coaxial cable is quite another story but a gross, low-frequency check can be done using just a capacity measurement...PLUS an Ohms check with or without a short or 50 Ohm dummy load at the other end. That short or dummy load uses the outer conductor as the return/common, avoids needing to run a common wire for Ohms continuity checks. To get a fairly accurate location of a coax cable break or short, an RF check can be done using minimum and maximum impedance magnitude versus frequency (and thus wavelength if the velocity of propagation of the coax cable is known). See Ham Radio magazine, May 1978, for quick calculations on a scientific pocket calculator that doesn't require a Smith Chart to use RF bridge data.

73, Len AF6AY

af6ay@arrl.net
LenAnderson@ieee.org

From 815667574825566161
X-Google-Thread: fc2a5,2b86743682de981b,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: MORE COLLINS PARTS-3 DAY ONLY
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
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Organization: AT&T Worldnet
Date: Fri, 18 Apr 2008 16:05:56 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15490

LISTED THE LAST OF MY COLLINS Mod Kit Parts + other stuff too; see at:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

Tnx, heytubeguy

From 7637163180007500281
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individual.net!not-for-mail
From: "Richard" <nearlynews_email@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Can anyone point me to an appropriate solid-state exciter circuit for my
2E26?
Date: Sat, 19 Apr 2008 11:36:00 +0100
Lines: 13
Message-ID: <66u08mF1soskqU1@mid.individual.net>
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X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Xref: g2news1.google.com rec.radio.amateur.homebrew:15491

I want to homebrew a crystal controlled (or VXO) CW Tx, (capable of break-in operation) that employs a 2E26 tube in the PA. With ICAS operation I can get 27 watts of RF out with a driving power of 0.17 wattts (according to my RCA sheet). I want most of my "design" efforts and interest to centre around the PA stage. I think I could cope with that at least.

Can anyone please point me to a suitable solid-state exciter circuit? I want the Tx to cover any HF band (I'll use plug-in coils). TIA.

```
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mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <66u08mF1soskqU1@mid.individual.net>
Subject: Re: Can anyone point me to an appropriate solid-state  exciter circuit
for my 2E26?
Lines: 27
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
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Date: Sat, 19 Apr 2008 15:38:31 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15492
```

"Richard" <nearlynews_email@ntlworld.com> wrote in message
news:66u08mF1soskqU1@mid.individual.net...
>I want to homebrew a crystal controlled (or VXO) CW Tx, (capable of
>break-in
> operation) that employs a 2E26 tube in the PA. With ICAS operation I can
> get
> 27 watts of RF out with a driving power of 0.17 wattts (according to my
> RCA
> sheet). I want most of my "design" efforts and interest to centre around
> the PA stage. I think I could cope with that at least.
>
> Can anyone please point me to a suitable solid-state exciter circuit? I
> want
> the Tx to cover any HF band (I'll use plug-in coils). TIA.
>

Why solid state? Since you're using the 2E26, you already need a high
Voltage supply, and a single stage crystal oscillator can operate from the

same supply without the need for a low Voltage supply for a multistage solid state exciter. (It's gonna take more than one to get where you want to be.)
A tube crystal oscillator can be found in most old ARRL handbooks, using a 5763 or similar tube. Or, even a 2 stage oscillator buffer/multiplier utilizing a triode/pentode 6EA8 or similar.

W4ZCB

```
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From: ebayshoe2@yahoo.cn
Newsgroups: rec.radio.amateur.homebrew
Subject: cheap wholesale prada shoes gucci shoes lacoste shoes dunk shoes puma
     shoes air force one shoes
Date: Sat, 19 Apr 2008 08:58:22 -0700 (PDT)
Organization: http://groups.google.com
Lines: 138
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Xref: g2news1.google.com rec.radio.amateur.homebrew:15493
```

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Bape Sta from nike outlets and factory stores, also Nike wholesale - Jordan Shoes. Nike Shoes, sport Shoes, Reebok Shoes,Basketball Shoes,prada,bapestar,Nike Shox,Dunks,Nike Flightposite ,Nike jordan Basketball ,K1X Chiefglider wholesale suppliers factory.We sale new

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wholesale Nike Air Max Tn Men's Shoes
wholesale Nike Air Max Tn 2 Women's Shoes
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wholesale Nike Air Max Tn 6 Supply
wholesale Nike Shox NZ Shoes Supply
wholesale Nike Shox OZ Sale
wholesale Nike Shox TL Store
wholesale Nike Shox TL 2 Shoes Store
wholesale Nike Shox TL 3 Distributor
wholesale Nike Shox Bmw Shoes Distributor
wholesale Nike Shox Elite Shoes Manufacturer
wholesale Nike Shox Monster Manufacturer
wholesale Nike Shox R4 Running Shoes
wholesale Nike Shox R5 Mens Shoes
wholesale Nike Shox Ride Womens Shoes
wholesale Nike Shox Rival Shoes Wholesaler
wholesale Nike Shox Energia Wholesaler
wholesale Nike Shox LV Sneaker
wholesale Nike Shox Turbo Suppliers
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wholesale Nike Air Jordan 1 Seller
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wholesale Nike Air Force 1 Custom Importer
wholesale Air Force 1 Dollar Shoes Importer
wholesale Nike Air Force 1 Clear Sales
wholesale Air Force 1 Carving Shoes Sales
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wholesale Timberland Boots Low Sell
wholesale Timberland Boots Mid Shoes Buyer
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Wholesale Nike Dunk
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Nike Shoes Wholesale China
Wholesale Custom Jordans
Air China Jordans Wholesale
Jordans Retro Wholesale
Nike Air Jordan Wholesale
Nike Golf Wholesale
Wholesale Jordans
Wholesale Nike Shox
Wholesale Basketball Shoes Nike
Air Jordans Price Wholesale
Jordans Kid Wholesale

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Jordans Shoes Wholesale
Wholesale Air Jordans
Air Jordans At Wholesale Price
Wholesale Nike Tennis Shoes
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store,sale and Wholesale all of Nike stock Shoes,we have many type of
NIKE Sneakers :Nike discount Shoes,Nike cheap Shoes,Nike stock Shoes
(Nike Trainers, Nike Sneakers,Nike Running Shoes,Nike Basketball
Shoes,Nike Discount Shoes,Nike Cheap Shoes,footwear, Sports
Shoes )Nike Shoes Wholesale sizes include:Nike men's Shoes,Nike
women's Shoes,Nike mens Shoes,Nike womens Shoes, Nike men Shoes,Nike
women Shoes,Nike kids Shoes, Nike child Shoes.Nike discount
Shoes,Nike in www.china-sneakers.com
cheap Shoes,china Nike Shoes,Nike Shoes Wholesale,Jordan SHOES,Air
Force one 1s,Nike Shox,Nike shoe Air max wholesale price.china
wholesale sneakers Nike celebrates 25 birthday of Air Force Ones BUY
SELL NIKE SHOX JORDAN MAX TIMBERLAND AIR FORCE PRADA TN PUMA.
in www.china-sneakers.com


From -3911910193996237202
X-Google-Thread: fc2a5,1ac57038c25a561b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Can anyone point me to an appropriate solid-state  exciter circuit
for my 2E26?
Date: 19 Apr 2008 21:08:37 GMT
Lines: 37
Message-ID: <slrng0knql.odh.bit-bucket@shell.config.com>
References: <66u08mF1soskqU1@mid.individual.net>
<XloOj.127233$yE1.47759@attbi_s21>
Reply-To: If you must, <Reply_to@my.sig.adr>
X-Trace: individual.net 0vvSx6kCAO10acSiCibUPQzGnB84WHxpBu4/XVyza+Z3ZT9olH
Cancel-Lock: sha1:nOaPp3OUaTXtbhaPHli6DTQU4Og=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15494

On Sat, 19 Apr 2008 15:38:31 GMT, Harold E. Johnson wrote:
>
> "Richard" <nearlynews_email@ntlworld.com> wrote in message
> news:66u08mF1soskqU1@mid.individual.net...
>>I want to homebrew a crystal controlled (or VXO) CW Tx, (capable of
>>break-in
>> operation) that employs a 2E26 tube in the PA. With ICAS operation I can
>> get
>> 27 watts of RF out with a driving power of 0.17 wattts (according to my
>> RCA
>> sheet). I want most of my "design" efforts and interest  to centre around
```

>> the PA stage. I think I could cope with that at least.
>>
>> Can anyone please point me to a suitable solid-state exciter circuit? I
>> want
>> the Tx to cover any HF band (I'll use plug-in coils). TIA.
>>
> Why solid state? Since you're using the 2E26, you already need a high
> Voltage supply, and a single stage crystal oscillator can operate from the
> same supply without the need for a low Voltage supply for a multistage solid
> state exciter. (It's gonna take more than one to get where you want to be.)
> A tube crystal oscillator can be found in most old ARRL handbooks, using a
> 5763 or similar tube. Or, even a 2 stage oscillator buffer/multiplier
> utilizing a triode/pentode 6EA8 or similar.

IIRC, most any 'simple' 6146 transmitter can be adapted to the 2E26 --
with minor changes in high voltage and grid bias.

The ARRL Handbooks from circa 1955->1975 seemed to always have
a "75 Watt Novice Transmitter" project.

GL ES 73
Jonesy

```
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    *** Killfiling google posts: <http://jonz.net/ng.htm>
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From 1126346122865104558
X-Google-Thread: fc2a5,1ac57038c25a561b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.acm.uiuc.edu!
news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Can anyone point me to an appropriate solid-state exciter
 circuit for my 2E26?
Date: Sat, 19 Apr 2008 22:51:22 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 25
Sender: et472@204-215-235-64-ppp.3menatwork.com
Message-ID: <Pine.LNX.4.64.0804192244400.5666@darkstar.example.org>
References: <66u08mF1soskqU1@mid.individual.net>
NNTP-Posting-Host: 204-215-235-64-ppp.3menatwork.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1208660045 14144 64.235.215.204 (20 Apr 2008 02:54:05 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 20 Apr 2008 02:54:05 GMT
In-Reply-To: <66u08mF1soskqU1@mid.individual.net>
Xref: g2news1.google.com rec.radio.amateur.homebrew:15495

On Sat, 19 Apr 2008, Richard wrote:

> I want to homebrew a crystal controlled (or VXO) CW Tx, (capable of break-in
> operation) that employs a 2E26 tube in the PA. With ICAS operation I can get
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> Can anyone please point me to a suitable solid-state exciter circuit? I want
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>

In the fall of 1971, there was a two part article in QST for what may have been the ultimate CW transmitter. It was solid state up till the driver, a 6GK6, and then a pair of 6146's. It used the uncommon design, for a cw transmitter, of a VFO that covered only a fixed range, and then it was mixed up to the signal frequency. I'm working from the 1972 Handbook, but I seem to recall the two part nature of the original had the first part as a simpler version that was expanded in the second part.

But any existing solid state transmitter is going to put out more than you'll need for the 2E26. Just pick a low power one and build it.

Michael VE2BVW

From -8588622766582126690
X-Google-Thread: fc2a5,106873d236dd19a0,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!wns14feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-mail
From: "William E. Sabin" <w.sabin@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: New Sabin (W0IYH) Book
Lines: 35
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <t7IOj.128581$yE1.92888@attbi_s21>
NNTP-Posting-Host: 12.217.190.47
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1208700505 12.217.190.47 (Sun, 20 Apr 2008 14:08:25 GMT)
NNTP-Posting-Date: Sun, 20 Apr 2008 14:08:25 GMT
Organization: AT&T ASP.att.net
Date: Sun, 20 Apr 2008 14:08:25 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15496

QRZ.COM "W0IYH" has a picture of my new book "Discrete-Signal Analysis and Design".

It is intended for class-room students and advanced at-home experimenters with strong interests in undergraduate-level mathematics. It discusses in a conversational style an introductory (see page 2) tutorial coverage of many aspects of the title subject. The book includes a compact disk that contains a virtually-free copy of the world-famous and very sophisticated program MATHCAD, version 14.0. This program can be used in a very elementary mode at home by new beginners and also in a very advanced mode by mathematically-sophisticated engineers. The software has a perpetual lifetime, and can be used "forever" for a multitide of applied-math calculation projects. Familiarity and acquired skill with the math program can in themselves be a very rewarding experience. The program has excellent graphing abilities, and the results can be printed, archived and published (and e-mailed) "forever". An on-disk "Mathcad User Guide" helps us to get started.

Page one of the Introduction Chapter contains the following:

"We can never become too well educated about fundamentals and about our aiblity to view them from a mathematical perpective. The modern emphasis on math literacy is right on target."

This is the main idea of and the basic reason for the book.

See the Wiley website www.wiley.com for more information about the book and the suggested list price. Other online bookstores may have the book-plus-disk at a reduced price. Be sure that the disk is included in the price.

Bill W0IYH

From -5186848859260113627
X-Google-Thread: fc2a5,1ac57038c25a561b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: "Richard" <nearlynews_email@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Can anyone point me to an appropriate solid-state exciter circuit for my 2E26?
Date: Sun, 20 Apr 2008 15:50:41 +0100
Lines: 36
Message-ID: <6713i5F2n9hsgU1@mid.individual.net>
References: <66u08mF1soskqU1@mid.individual.net>
<Pine.LNX.4.64.0804192244400.5666@darkstar.example.org>
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X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Xref: g2news1.google.com rec.radio.amateur.homebrew:15497


"Michael Black" <et472@ncf.ca> wrote in message
news:Pine.LNX.4.64.0804192244400.5666@darkstar.example.org...
> On Sat, 19 Apr 2008, Richard wrote:
>
>> I want to homebrew a crystal controlled (or VXO) CW Tx, (capable of
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>>
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> mixed up to the signal frequency.  I'm working from the 1972 Handbook, but
> I seem to recall the two part nature of the original had the first part
> as a simpler version that was expanded in the second part.
>
> But any existing solid state transmitter is going to put out more than
> you'll need for the 2E26.  Just pick a low power one and build it.
>
>
>   Michael VE2BVW

I'm minded to have the PA valve input circuit have an impedance of 50 Ohms.
I need to fiure out then what the input circuit for the 2E26 would look
like. I've no idea at the moment, not being much of a homebrewer at present.




From -8000226639278991473
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X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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From: "William E. Sabin" <w.sabin@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: New Sabin (W0IYH) Book
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
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X-RFC2646: Format=Flowed; Original
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NNTP-Posting-Host: 12.217.190.47
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1208704184 12.217.190.47 (Sun, 20 Apr 2008 15:09:44 GMT)
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Organization: AT&T ASP.att.net
Date: Sun, 20 Apr 2008 15:09:44 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15498

One other thing. The reason for my post here about my new book, and also the review on page 70 of the May 2008 QST, is to convey information that might be interesting and valuable to some of the members of this group and to QST readers. It is not motivated by a search for financial profit, even though the publisher does pay a small royalty to the author. That total amount is insignifiant compared to the author's substantial personal investment in time (time is not free) and materials over a three year interval.

Bill W0IYH

From -1649802819356085149
X-Google-Thread: fc2a5,106873d236dd19a0
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post02.iad01.roadrunner.com!not-for-mail
From: "K" <K@spam.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Y0JOj.128637$yE1.84159@attbi_s21>
In-Reply-To: <Y0JOj.128637$yE1.84159@attbi_s21>
Subject: Re: New Sabin (W0IYH) Book
Date: Sun, 20 Apr 2008 08:35:40 -0700
MIME-Version: 1.0
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     reply-type=response
Content-Transfer-Encoding: 7bit

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X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6000.16545
Lines: 18
Message-ID: <480b62f0$0$12921$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 65.28.132.40
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15499

Yea, its proably a great book, but at $125 bucks a copy, it outa be!!

K

"William E. Sabin" <w.sabin@mchsi.com> wrote in message
news:Y0JOj.128637$yE1.84159@attbi_s21...
> One other thing. The reason for my post here about my new book, and also
> the review on page 70 of the May 2008 QST, is to convey information that
> might be interesting and valuable to some of the members of this group and
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> amount is insignifiant compared to the author's substantial personal
> investment in time (time is not free) and materials over a three year
> interval.
>
> Bill W0IYH
>



From 8584086156290368144
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-
mail
From: "William E. Sabin" <w.sabin@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <Y0JOj.128637$yE1.84159@attbi_s21>
<480b62f0$0$12921$4c368faf@roadrunner.com>
Subject: Re: New Sabin (W0IYH) Book
Lines: 31
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
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NNTP-Posting-Host: 12.217.190.47
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1208712449 12.217.190.47 (Sun, 20 Apr 2008 17:27:29 GMT)
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NNTP-Posting-Date: Sun, 20 Apr 2008 17:27:29 GMT
Organization: AT&T ASP.att.net
Date: Sun, 20 Apr 2008 17:27:29 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15500
```

Hello K,

The Mathcad program itself sells for several hundred dollars. The PTC Company publishes this program, and it alone is quite expensive. The disk in my book is part of a promotional plan by PTC to encourage the sales and use of the Mathcad program. Even if the book itself is of no value, which I do not believe, the Mathcad is of considerable value. Go to www.PTC.com if you want to learn more about Mathcad.

Bill W0IYH

"K" <K@spam.net> wrote in message
news:480b62f0$0$12921$4c368faf@roadrunner.com...

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>
> K
>
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>>
>> Bill W0IYH

```
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Date: Sun, 20 Apr 2008 13:03:02 -0500
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MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
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<480b62f0$0$12921$4c368faf@roadrunner.com> <52LOj.75136$TT4.44404@attbi_s22>
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Content-Transfer-Encoding: 7bit
Message-ID: <vpmdnbxAnfrPGJbVnZ2dnUVZ_o3inZ2d@posted.cpinternet>
Lines: 17
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NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-
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X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:15501
```

William E. Sabin wrote:

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> want to learn more about Mathcad.

<snip>

I have Mathcad 4.0; would it be sufficient? If so, is the book available separately?

Michael

```
From -5284336673784303870
X-Google-Thread: fc2a5,106873d236dd19a0
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-
mail
From: "William E. Sabin" <w.sabin@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <Y0JOj.128637$yE1.84159@attbi_s21>
<480b62f0$0$12921$4c368faf@roadrunner.com> <52LOj.75136$TT4.44404@attbi_s22>
<vpmdnbxAnfrPGJbVnZ2dnUVZ_o3inZ2d@posted.cpinternet>
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Subject: Re: New Sabin (W0IYH) Book
Lines: 35
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <RVMOj.128925$yE1.76554@attbi_s21>
NNTP-Posting-Host: 12.217.190.47
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1208720113 12.217.190.47 (Sun, 20 Apr 2008 19:35:13 GMT)
NNTP-Posting-Date: Sun, 20 Apr 2008 19:35:13 GMT
Organization: AT&T ASP.att.net
Date: Sun, 20 Apr 2008 19:35:13 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15502

Hello Michael,

Mathcad 4.0 was sold in 1993. I had it at that time (15 years ago) but it is very ancient these days. If your computer is fairly modern and has a CD drive, I suggest "bite the bullet" and get the book with the almost freebie version 14.0 program attached. If you are using a very early computer that has no CD drive and if your version 4.0 works OK, you could try it. I believe it is possible to get the book alone. I personally would not want to waste my valuable time with that approach. Also, the CD has the Mathcad User Guide, which is very useful. I can't emphasize too much the excellence of the new 14.0 version.

Bill W0IYH

"msg" <msg@_cybertheque.org_> wrote in message
news:vpmdnbxAnfrPGJbVnZ2dnUVZ_o3inZ2d@posted.cpinternet...
> William E. Sabin wrote:
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From -8074370583447325161
X-Google-Thread: fc2a5,106873d236dd19a0
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
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Xref: g2news1.google.com rec.radio.amateur.homebrew:15503

K wrote:
> Yea, its proably a great book, but at $125 bucks a copy, it outa be!!
>
> K
>
> "William E. Sabin" <w.sabin@mchsi.com> wrote in message
> news:Y0JOj.128637$yE1.84159@attbi_s21...
>
>> One other thing. The reason for my post here about my new book, and
>> also the review on page 70 of the May 2008 QST, is to convey
>> information that might be interesting and valuable to some of the
>> members of this group and to QST readers. It is not motivated by a
>> search for financial profit, even though the publisher does pay a
>> small royalty to the author. That total amount is insignifiant
>> compared to the author's substantial personal investment in time (time
>> is not free) and materials over a three year interval.
>>
>> Bill W0IYH
>>

>

Sad part is that courtesy of the IRS rules, it is a gamble to publish a small run, specialty book like this at that price. Used to be different, but that's the reality now. In any event writing one is more a labor of love than anything else unless you need the publication to get tenure.

I haven't seen the book and wouldn't buy it because I've been doing this stuff for 25+ years and already have dozens of books on signal processing. But if you don't have that sort of background and are interested in software radio, you really need this or something like it.

There is no substitute for doing the math yourself.

Table of contents looks good though I wonder if it's not a proposal outline that Wiley has failed to update rather than the actual table of contents. "Discuss the MathCAD program" doesn't seem like a good section title.

Have Fun!
Reg

```
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Newsgroups: rec.radio.amateur.homebrew
References: <t7IOj.128581$yE1.92888@attbi_s21>
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Lines: 15
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Date: Sun, 20 Apr 2008 19:16:37 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:15504
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"William E. Sabin" <w.sabin@mchsi.com> wrote in message news:t7IOj.128581$yE1.92888@attbi_s21...

> QRZ.COM "W0IYH" has a picture of my new book "Discrete-Signal Analysis and
> Design".
>
> > Bill W0IYH

Congrats on the new book Bill!

73

Pete k1zjh

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Message-ID: <480BD60E.6090308@yahoo.com>
From: "Jim, K7JEB" <k7jeb_2@yahoo.com>
User-Agent: Thunderbird 2.0.0.12 (Windows/20080213)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: New Sabin (W0IYH) Book
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Date: Sun, 20 Apr 2008 16:47:26 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:15505
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William E. Sabin wrote:
> ...The book includes a compact disk that contains a virtually-free
> copy of the world-famous and very sophisticated program MATHCAD, version
> 14.0. This program can be used in a very elementary mode at home by new
> beginners and also in a very advanced mode by mathematically-sophisticated
> engineers. The software has a perpetual lifetime, and can be used "forever"
> for a multitide of applied-math calculation projects.

First of all, allow me to add my congratulations to you, Bill, for publishing a new book. It sounds like a valuable addition to both professional and amateur libraries.

Just so one knows, just what are the limitations of the included Mathcad program. Is it somewhat like a 'student version' or 'promotional version' that is limited in the number of steps or number of variables that can be programmed? Or are the limitations more exotic, such as not supporting regression analysis and that kind of thing? Not that such a limitation would be a show-stopper. One may learn a great deal from student copies of programs like PSpice. It's just that it would be nice to know this going in.

Jim, K7JEB, Glendale, AZ, USA

```
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:15506
```

The recent thread discussing W0IYH's new book got me researching Mathcad version differences and availability of add-ons; I found essentially nothing on the 'net that summarizes versions differences and suspect that reading the release notes from each version would be required to do the job. Has anyone seen such an analysis?

I have version 4.0, and from reading archived newsgroup posts it seems that 4.0 and 5.0 were highly regarded, with increasing complaints arising after 6.0. Worksheet (.mcd) file formats were ascii until 7.0, and evidently more recent versions are xml based (do these no longer use a binary file format?) I would like to continue to use 4.0, and I also appreciate that this version is unencumbered with intrusive protection schemes (I choose tools that are designed to work for me and not against me), doesn't need a mysterious installation procedure (just execute the product from its target directory), and has a small footprint but is not memory constrained. Has anyone ever documented the ascii worksheet file format (which could permit a re-writing of later version files to be backward compatible with earlier versions within the constraints of common features)?

Does anyone happen to have the DSP "function pack" compatible with 4.0? As described in advertising literature that came with my version, it offers some excellent filter design tools that would provide interactivity missing from the tools that I've been using, and I would enjoy trying them ;)

Michael

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From: "William E. Sabin" <w.sabin@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <Y0JOj.128637$yE1.84159@attbi_s21>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:15507

It's the actual Table of Contents.

Bill W0IYH
>
> Table of contents looks good though I wonder if it's not a proposal

> outline that Wiley has failed to update rather than the actual table of
> contents. "Discuss the MathCAD program" doesn't seem like a good section
> title.
>
> Have Fun!
> Reg

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From: "Richard" <nearlynews_email@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Grid circuits for RF power amplifiers
Date: Mon, 21 Apr 2008 17:04:02 +0100
Lines: 31
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Xref: g2news1.google.com rec.radio.amateur.homebrew:15508

I need some information on an appropriate input circuit for a small RF power amplifier using a 2E26 operating in the HF region. Output would be about 27 watts. Drive input power about 0.12 watts.

I want the input circuit of the PA to present a 50 or 75 Ohm load to the driver (the exciter - probably a CW QRP rig - will supply about 0.12 watts). Perhaps (I muse) it would be good, (certainly it would be convenient) if the input circuit was NOT a tuned input circuit, but see below.

Questions (that incidentally show my thinking):

Can anyone point me to a website that gives the design data for an appropriate circuit given the things I have mentioned?

Is it okay to have an untuned grid circuit? I muse no problem if the exciter has a pi-network output circuit. I just wonder that if the exciter uses a pi network, if that would represent both the exciter anode/collector tank circuit, and the grid tank circuit. (So, really there would be a tuned input circuit - the output pi-network of the exciter). (Just shows I know nothin', I'm not even certain whether solid stage rigs use Pi-networks to match with the load).

Any thoughts on biasing arrangement - fixed bias, drive bias, or cathode bias? (Perhaps fixed bias is best - no need for a clamp valve). Grid bias needs to be about - 45 volts. Muse that a simple RF choke supplying the bias to grid would suffice.

So, basically, I want to be able to plug a QRP rig into the PA, tune up the QRP rig and the plate circuit of PA, and that's it.

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From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Grid circuits for RF power amplifiers
Newsgroups: rec.radio.amateur.homebrew
References: <673s8qF2mied6U1@mid.individual.net>
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properly
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On Mon, 21 Apr 2008 17:04:02 +0100, Richard wrote:

> I need some information on an appropriate input circuit for a small RF
> power amplifier using a 2E26 operating in the HF region. Output would be
> about 27 watts. Drive input power about 0.12 watts.
>
> I want the input circuit of the PA to present a 50 or 75 Ohm load to the

> driver (the exciter - probably a CW QRP rig - will supply about 0.12 watts). Perhaps (I muse) it would be good, (certainly it would be convenient) if the input circuit was NOT a tuned input circuit, but see below.
>
> Questions (that incidentally show my thinking):
>
> Can anyone point me to a website that gives the design data for an appropriate circuit given the things I have mentioned?
>
> Is it okay to have an untuned grid circuit? I muse no problem if the exciter has a pi-network output circuit. I just wonder that if the exciter uses a pi network, if that would represent both the exciter anode/collector tank circuit, and the grid tank circuit. (So, really there would be a tuned input circuit - the output pi-network of the exciter). (Just shows I know nothin', I'm not even certain whether solid stage rigs use Pi-networks to match with the load).
>
> Any thoughts on biasing arrangement - fixed bias, drive bias, or cathode bias? (Perhaps fixed bias is best - no need for a clamp valve). Grid bias needs to be about - 45 volts. Muse that a simple RF choke supplying the bias to grid would suffice.
>
> So, basically, I want to be able to plug a QRP rig into the PA, tune up the QRP rig and the plate circuit of PA, and that's it.

Elsewhere you say that a 2E26 needs 170mW, here you're going to give it 120?

If you want to minimize the drive power you're going to have to use a tuned grid circuit; having such a power-efficient design is going to make your circuit susceptible to oscillation, as it'll take less than 1% of the output power to come back in to the grid circuit and cause problems. So a 120 (or 170) milliwatt input implies both a tuned grid circuit and neutralization.

If you want to go broad-band, you need some dissipative elements in the grid circuit to broaden the response. Something like a plain old resistor would do quite well. With resistive loading, your grid circuit will both be broader band _and_ your need for neutralization will be far less. I'd be tempted to think along the lines of a 1W QRP rig and resistor in the grid circuit that dissipates 800mW. I'll leave the calculations to you, but this will broaden your grid circuit response considerably, ease your bias network design problem, and reduce (or eliminate) the need for neutralization and/or obsessively high degrees of isolation in your circuit layout.

Have fun -- take everything I just said with a grain of salt, because I've only ever designed transistor PA stages.

--
Tim Wescott
Control systems and communications consulting

http://www.wescottdesign.com

Need to learn how to apply control theory in your embedded system?
"Applied Control Theory for Embedded Systems" by Tim Wescott
Elsevier/Newnes, http://www.wescottdesign.com/actfes/actfes.html

---

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From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
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Lines: 19
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Organization: Forte Inc. http://www.forteinc.com/apn/
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Date: Mon, 21 Apr 2008 10:53:55 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:15510

William,

Given that Mathcad is included, I don't think the price is unreasonable. However, perhaps you'd consider using one of the free math manipulation programs such as Octave in the future? It really would make it more accessible to amateurs. Nevertheless, thank you for writing the book and getting it published -- it definitely will help some people and is a good addition to amateur radio literature.

At least Mathcad is much cheaper than Matlab. The MathWorks (publishers of Matlab) has pretty much completely left out the hobbyist community... the full version of the software is quite expensive (thousands of dollars), whereas the "student" version (at a pretty reasonable $99, although each and every "toolbox" is then an additional $59) require formal proof of student status, which of course hobbyists generally don't have. :-(

---Joel

From -5456660463259977555
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From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
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Date: Mon, 21 Apr 2008 11:09:58 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:15511

Michael,

"msg" <msg@_cybertheque.org_> wrote in message
news:er2dnY-QZL0urJHVnZ2dnUVZ_sKqnZ2d@cpinternet...

> The recent thread discussing W0IYH's new book got me researching Mathcad
> Has anyone seen such an analysis?

I haven't, but I can tell you that version 12 was still just an "enter the product code and it works anywhere" whereas by version 2001 it required Internet activation (presumably with a finite number of activations -- not good if you upgrade computers regularly and and to keep it for awhile).   (The versions went 12, 2000, 2001, 2001i, 13, and now 14, AFAIK.)

The biggest improvement for me between version 12 and 2001 was that they let you have scales on both the left- and right-hand sides of a graph. There were of course other new features and what-not, that's just the only one I remember caring that much about!

The change to an XML file structure (it's ASCII-readable) allows for easy searching of MathCAD files and -- ostensibly -- being able to parse, convert, and create your own MathCAD worksheets programmatically, at least if they actually documented the structure ("schema") reasonably well. (Some companies change to XML just to satisfy some big corporate "checklist" of features required of software and don't publish -- or incompletely publish, as with Microsoft Office -- their schemas.)

---Joel

From 8152026530785062854
X-Google-Thread: fc2a5,c109b30fe87e341f,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
news.dfncis.de!not-for-mail
From: markus wolfgart <markus.wolfgart@dlr.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: UAA2001 PLL SYNTHESIZER
Date: Mon, 21 Apr 2008 23:27:48 +0200
Lines: 18
Message-ID: <674f6kF2mnuvtU1@mid.dfncis.de>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-15; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.dfncis.de rDoTg8dL0zSiAsL3LvAcQgGgUr9vZ+gsMc9lowPNejMpndkhnOIDCzxxkA
Cancel-Lock: sha1:jwelgjzsFdhgPoqNVRWjg4wFxXE=
User-Agent: Thunderbird 2.0.0.12 (X11/20080226)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15512

Hi OMs/OPs and NG readers,

I'm looking for a pinout and/or data sheet of a old Motorola ic named

UAA2001

should be a pll synthesizer for TV tuners.

Anyone who can help my on this?

Many thanks in advance.

Markus
DL8MBY

PS.: I had already searched for days without success in the web.

From -6136724449825602553
X-Google-Thread: fc2a5,30071a8b97143872
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 21 Apr 2008 17:24:04 -0500

Date: Mon, 21 Apr 2008 23:25:20 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Grid circuits for RF power amplifiers
References: <673s8qF2mied6U1@mid.individual.net>
<IqydnSRh2vVQUZHVnZ2dnUVZ_qHinZ2d@web-ster.com>
In-Reply-To: <IqydnSRh2vVQUZHVnZ2dnUVZ_qHinZ2d@web-ster.com>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <5ridnaE5x6aZiZDVnZ2dnUVZ8tGqnZ2d@pipex.net>
Lines: 38
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 85.210.73.92
X-Trace:
sv3-8ukVJuhBwJPDICaNrfRFRU23EDxz+H+1+edHrnkXieLYufE6Lc4N4MdLjHGg5WhDRDEwWbFrR1Tr9t
d!KGZAhCqZsKp80Ybc9y/hBwR8+iVQ7XIw8Usv7YDN30aDb5ffhZfKcByWCbZFHySLGbJ0pEZpyyKo!
FgUtn6+RH2mmDFCegzuuqr27
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com rec.radio.amateur.homebrew:15513

Tim Wescott wrote:
> If you want to minimize the drive power you're going to have to use a
> tuned grid circuit; having such a power-efficient design is going to make
> your circuit susceptible to oscillation, as it'll take less than 1% of
> the output power to come back in to the grid circuit and cause problems.
> So a 120 (or 170) milliwatt input implies both a tuned grid circuit and
> neutralization.
>
> If you want to go broad-band, you need some dissipative elements in the
> grid circuit to broaden the response. Something like a plain old
> resistor would do quite well. With resistive loading, your grid circuit
> will both be broader band _and_ your need for neutralization will be far
> less. I'd be tempted to think along the lines of a 1W QRP rig and
> resistor in the grid circuit that dissipates 800mW. I'll leave the
> calculations to you, but this will broaden your grid circuit response
> considerably, ease your bias network design problem, and reduce (or
> eliminate) the need for neutralization and/or obsessively high degrees of
> isolation in your circuit layout.

=========================
Tim ,If I understand the above correctly you refer to a passive grid
circuit with for example a 200 or 300 or 600 Ohms non-inductive resistor
and a toroid type of auto-transformer .

With the exiter output impedance being 50 Ohms , the auto-transformer
impedance step-up would have to be as follows ;
For the 200 Ohms resistor 1: 4

For the 300 Ohms resistor   1: 6
for the 600 Ohms resistor   1: 12

The resistor to be chosen would be able to swing the grid voltage sufficiently to drive the tube ,which would have a set negative grid voltage for whatever Class the tube will operate eg class C , AB or even A ,all that for the exiter power available.

Such a passive grid scheme can be found on the web site of AG6K.

Frank   GM0CSZ / KN6WH

From 4380454498103581052
X-Google-Thread: fc2a5,1ac57038c25a561b
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!not-for-mail
From: Jim <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Can anyone point me to an appropriate solid-state exciter circuit for my 2E26?
Date: Mon, 21 Apr 2008 20:38:43 -0500
Message-ID: <35gq049mu3h7kot2lv86vkp3j2dbjla533@4ax.com>
References: <66u08mF1soskqU1@mid.individual.net>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 28
Organization: Newshosting.com - Highest quality at a great price! www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15514

FYI: THe 2E26 is a good small rugged tube. It was used as final in the Spy Sets used by the clandestine community in the cold war days. I have one of the sets, and it will literally tune into anything and work off almost any power source. It is crystal controlled, but I don't have any schematic.

One of the older ARRL workbooks will have lots of circuits for the 2E26 tube, circa 1950-1960.

On Sat, 19 Apr 2008 11:36:00 +0100, "Richard"
<nearlynews_email@ntlworld.com> wrote:

>I want to homebrew a crystal controlled (or VXO) CW Tx, (capable of break-in
>operation) that employs a 2E26 tube in the PA. With ICAS operation I can get
>27 watts of RF out with a driving power of 0.17 wattts (according to my RCA
>sheet). I want most of my "design" efforts and interest to centre around
>the PA stage. I think I could cope with that at least.
>
>Can anyone please point me to a suitable solid-state exciter circuit? I want
>the Tx to cover any HF band (I'll use plug-in coils). TIA.
>
>
>
>

From -8932166111860522
X-Google-Thread: fc2a5,c109b30fe87e341f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.acm.uiuc.edu!
news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UAA2001 PLL SYNTHESIZER
Date: Tue, 22 Apr 2008 00:00:11 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 18
Sender: et472@72.0.192.110
Message-ID: <Pine.LNX.4.64.0804212354480.8678@darkstar.example.org>
References: <674f6kF2mnuvtU1@mid.dfncis.de>
NNTP-Posting-Host: 72.0.192.110
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1208836977 12686 72.0.192.110 (22 Apr 2008 04:02:57 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 22 Apr 2008 04:02:57 GMT
In-Reply-To: <674f6kF2mnuvtU1@mid.dfncis.de>
Xref: g2news1.google.com rec.radio.amateur.homebrew:15515

On Mon, 21 Apr 2008, markus wolfgart wrote:

> Hi OMs/OPs and NG readers,
>
> I'm looking for a pinout and/or data sheet of a old Motorola ic named
>
> UAA2001
>
> should be a pll synthesizer for TV tuners.
>
I checked the two Motorola databooks I have, one from about 1978 and
the other from 1990, and the IC doesn't show up there.

I looked because I had thought some odd-numbered devices for tv

showed up, but nothing. I checked my 30 year old National
databook too, but nothing there either.

Michael VE2BVW

From -2920748126807187287
X-Google-Thread: fc2a5,c109b30fe87e341f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.cpinternet!
news.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 22 Apr 2008 00:29:18 -0500
Date: Tue, 22 Apr 2008 00:29:23 -0500
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UAA2001 PLL SYNTHESIZER
References: <674f6kF2mnuvtU1@mid.dfncis.de>
<Pine.LNX.4.64.0804212354480.8678@darkstar.example.org>
In-Reply-To: <Pine.LNX.4.64.0804212354480.8678@darkstar.example.org>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <zMWdnWOSbvcy6pDVnZ2dnUVZ_saknZ2d@cpinternet>
Lines: 15
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NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-jXpVpDJqli+qQuO0EgxRiIE6jztwXN1EmjSWk7sNmFBqSfIu2HsH/3N2/
fgXbdgeiMe3dyhaCUtcD+P!
TLtHs46Bjk9NcTpVlEpywtRh4g2dWE3E8UFnI7zzz6fqFCWDKbkrdhBJ5y3P3fEC1yEieyjN9ex6!
kLQPGM/eU4eL
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:15516

Michael Black wrote:

> On Mon, 21 Apr 2008, markus wolfgart wrote:
>
>> Hi OMs/OPs and NG readers,
>>
>> I'm looking for a pinout and/or data sheet of a old Motorola ic named
>>
>> UAA2001

<snip>

Try: http://www.datasheetarchive.com/pdf/3511822.pdf

Michael

From -3540491518767191683
X-Google-Thread: fc2a5,c109b30fe87e341f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.cpinternet!
news.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 22 Apr 2008 00:47:39 -0500
Date: Tue, 22 Apr 2008 00:47:44 -0500
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UAA2001 PLL SYNTHESIZER
References: <674f6kF2mnuvtU1@mid.dfncis.de>
<Pine.LNX.4.64.0804212354480.8678@darkstar.example.org>
<zMWdnWOSbvcy6pDVnZ2dnUVZ_saknZ2d@cpinternet>
In-Reply-To: <zMWdnWOSbvcy6pDVnZ2dnUVZ_saknZ2d@cpinternet>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <avSdnVW8fNRm5pDVnZ2dnUVZ_qTinZ2d@cpinternet>
Lines: 27
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-
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GZKc2AqRTzSltT6DXnhYvaV8bmOXJkxT2ks9WuvSq4b+DRJxV9rU7ZoQO9h0OM3cqEfiK1t0jJ7t!
tGI9rtgc90Ui
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com rec.radio.amateur.homebrew:15517

msg wrote:

> Michael Black wrote:
>
>> On Mon, 21 Apr 2008, markus wolfgart wrote:
>>
>>> Hi OMs/OPs and NG readers,
>>>

>>> I'm looking for a pinout and/or data sheet of a old Motorola ic named
>>>
>>> UAA2001
>
>
> <snip>
>
> Try: http://www.datasheetarchive.com/pdf/3511822.pdf

Sorry, this turned out to be only a bit of an old Euro Master
Selection Guide. However, there are more clues to be found
in the datasheet for the UAA2022 (which wasn't easy to find
online either):

http://www.uploadarchief.net/files/download/uaa2022.pdf

(UAA2000/2001 is mentioned in the description)

Michael

```
From 6910643754167149434
X-Google-Thread: fc2a5,30071a8b97143872
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!
bolzen.all.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: "Richard" <nearlynews_email@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Grid circuits for RF power amplifiers
Date: Tue, 22 Apr 2008 09:58:37 +0100
Lines: 49
Message-ID: <675nm6F2j29o7U1@mid.individual.net>
References: <673s8qF2mied6U1@mid.individual.net>
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     charset="UTF-8";
     reply-type=response
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Cancel-Lock: sha1:x85L4holZDDpVkHGU62qHzaNOz4=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Xref: g2news1.google.com rec.radio.amateur.homebrew:15518
```

"Highland Ham" <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote in message

news:5ridnaE5x6aZiZDVnZ2dnUVZ8tGqnZ2d@pipex.net...
> Tim Wescott wrote:
> > If you want to minimize the drive power you're going to have to use a
>> tuned grid circuit; having such a power-efficient design is going to make
>> your circuit susceptible to oscillation, as it'll take less than 1% of
>> the output power to come back in to the grid circuit and cause problems.
>> So a 120 (or 170) milliwatt input implies both a tuned grid circuit and
>> neutralization.
>>
>> If you want to go broad-band, you need some dissipative elements in the
>> grid circuit to broaden the response. Something like a plain old
>> resistor would do quite well. With resistive loading, your grid circuit
>> will both be broader band _and_ your need for neutralization will be far
>> less. I'd be tempted to think along the lines of a 1W QRP rig and
>> resistor in the grid circuit that dissipates 800mW. I'll leave the
>> calculations to you, but this will broaden your grid circuit response
>> considerably, ease your bias network design problem, and reduce (or
>> eliminate) the need for neutralization and/or obsessively high degrees of
>> isolation in your circuit layout.
> ========================
> Tim ,If I understand the above correctly you refer to a passive grid
> circuit with for example a 200 or 300 or 600 Ohms non-inductive resistor
> and a toroid type of auto-transformer .
>
> With the exiter output impedance being 50 Ohms , the auto-transformer
> impedance step-up would have to be as follows ;
> For the 200 Ohms resistor   1: 4
> For the 300 Ohms resistor   1: 6
> for the 600 Ohms resistor   1: 12
>
> The resistor to be chosen would be able to swing the grid voltage
> sufficiently to drive the tube ,which would have a set negative grid
> voltage for whatever Class the tube will operate eg class C , AB or even A
> ,all that for the exiter power available.
>
> Such a passive grid scheme can be found on the web site of AG6K.
>
>
> Frank   GM0CSZ / KN6WH

I see that EI9GC uses passive grid in his PA.

http://homepage.eircom.net/~ei9gq/amp.html

Also, I just discover the RF Amplifiers group at Yahoo. Will join that.

From -8097324921064742728
X-Google-Thread: fc2a5,c109b30fe87e341f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

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feed.tweaknews.nl!border2.nntp.ams.giganews.com!nntp.giganews.com!fu-berlin.de!
uni-berlin.de!news.dfncis.de!not-for-mail
From: markus wolfgart <markus.wolfgart@dlr.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UAA2001 PLL SYNTHESIZER
Date: Tue, 22 Apr 2008 15:41:39 +0200
Lines: 40
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Content-Transfer-Encoding: 7bit
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Cancel-Lock: sha1:AeqBelV6W8oQh6q+Hgu7eLSMCTg=
User-Agent: Thunderbird 2.0.0.12 (Windows/20080213)
In-Reply-To: <avSdnVW8fNRm5pDVnZ2dnUVZ_qTinZ2d@cpinternet>
Xref: g2news1.google.com rec.radio.amateur.homebrew:15519
```

Tahnks Michael for your efford, but that was the only doc
I could find bofor on this ic while looking in the web.
Unfortunatelly without to much information in it about the
mentioned chip.

vy 73

Markus
DL8MVY

msg schrieb:
> msg wrote:
>
>> Michael Black wrote:
>>
>>> On Mon, 21 Apr 2008, markus wolfgart wrote:
>>>
>>>> Hi OMs/OPs and NG readers,
>>>>
>>>> I'm looking for a pinout and/or data sheet of a old Motorola ic named
>>>>
>>>> UAA2001
>>
>>
>> <snip>
>>
>> Try: http://www.datasheetarchive.com/pdf/3511822.pdf
>
> Sorry, this turned out to be only a bit of an old Euro Master

> Selection Guide. However, there are more clues to be found
> in the datasheet for the UAA2022 (which wasn't easy to find
> online either):
>
> http://www.uploadarchief.net/files/download/uaa2022.pdf
>
> (UAA2000/2001 is mentioned in the description)
>
> Michael

From 4805551683387364288
X-Google-Thread: fc2a5,dfa0006633e12e3b,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: "William E. Sabin" <w.sabin@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Sabin Book
Lines: 6
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <H4mPj.77715$TT4.4950@attbi_s22>
NNTP-Posting-Host: 12.217.190.47
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1208872359 12.217.190.47 (Tue, 22 Apr 2008 13:52:39 GMT)
NNTP-Posting-Date: Tue, 22 Apr 2008 13:52:39 GMT
Organization: AT&T ASP.att.net
Date: Tue, 22 Apr 2008 13:52:40 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15520

An improved brief description of my new book Discrete-Signal Analysis and
Design is on QRZ.COM (W0IYH)

Bill W0IYH

From 1571869958209440547
X-Google-Thread: fc2a5,c109b30fe87e341f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
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news.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 22 Apr 2008 09:53:46 -0500
Date: Tue, 22 Apr 2008 09:53:51 -0500

From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UAA2001 PLL SYNTHESIZER
References: <674f6kF2mnuvtU1@mid.dfncis.de>
<Pine.LNX.4.64.0804212354480.8678@darkstar.example.org>
<zMWdnWOSbvcy6pDVnZ2dnUVZ_saknZ2d@cpinternet>
<avSdnVW8fNRm5pDVnZ2dnUVZ_qTinZ2d@cpinternet> <67688jF2n7a29U1@mid.dfncis.de>
In-Reply-To: <67688jF2n7a29U1@mid.dfncis.de>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <1cqdnfhjfO9nZpDVnZ2dnUVZ_uSdnZ2d@cpinternet>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.251.177.106
X-Trace:
sv3-8mONhCvDN2Xu8KfFS6lhpYYHSLXW5k2UqET22HZAI+4ps2eQNK1jssQb8hwjQJp38x0Z5KyoYkpZDu
C!kVmRTcSbaONBaBCr3L4+aai9F78RhY9QtwUQ3LZ9IXasfire5pgPyE+yMD5I2YiVffpfXyn0HMQy!
c35MQGbHPzHY
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:15521

markus wolfgart wrote:

>
> Tahnks Michael for your efford,
<snip>

I imagine that you have considered it, but it is still worth
mentioning: The device seems to have been popular in about
1986; peruse Sams Photofact TV folders from that period for
TVs that have a 7-segment channel display and see if they
use the UAA2001/UAA2022 combination -- the schematic should
provide connection and pinout information and some clues
on using the device.

Michael

From -3271043591884573894
X-Google-Thread: fc2a5,c109b30fe87e341f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
news.dfncis.de!not-for-mail

From: markus wolfgart <markus.wolfgart@dlr.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UAA2001 PLL SYNTHESIZER
Date: Tue, 22 Apr 2008 21:53:36 +0200
Lines: 34
Message-ID: <676u20F2naemiU1@mid.dfncis.de>
References: <674f6kF2mnuvtU1@mid.dfncis.de>
<Pine.LNX.4.64.0804212354480.8678@darkstar.example.org>
<zMWdnWOSbvcy6pDVnZ2dnUVZ_saknZ2d@cpinternet>
<avSdnVW8fNRm5pDVnZ2dnUVZ_qTinZ2d@cpinternet> <67688jF2n7a29U1@mid.dfncis.de>
<1cqdnfhjfO9nZpDVnZ2dnUVZ_uSdnZ2d@cpinternet>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.dfncis.de HCLrgf8iZTF/+Yhw6C+/wAPBQoTFPw3/0ohYWES9liEcYK9Uzoo8PsLzU+
Cancel-Lock: sha1:vbxg5gNODSDgD1KuJfKUkJbMgsc=
User-Agent: Thunderbird 2.0.0.12 (X11/20080226)
In-Reply-To: <1cqdnfhjfO9nZpDVnZ2dnUVZ_uSdnZ2d@cpinternet>
Xref: g2news1.google.com rec.radio.amateur.homebrew:15522

Hi Michael,

I'm sorry for causing additional effort in searching
for the pin out, but I had found some of these ic's
on a jumble sale and would like to play around with
pll syntheses on a rainy weekend if the ic is suitable
for this purpose.

Many thanks in advance for your kind help.

vy73

Markus
DL8MBY

msg schrieb:
> markus wolfgart wrote:
>
>>
>> Tahnks Michael for your efford,
> <snip>
>
> I imagine that you have considered it, but it is still worth
> mentioning: The device seems to have been popular in about
> 1986; peruse Sams Photofact TV folders from that period for
> TVs that have a 7-segment channel display and see if they
> use the UAA2001/UAA2022 combination -- the schematic should
> provide connection and pinout information and some clues
> on using the device.
>

```
> Michael


From 5060497213950484805
X-Google-Thread: fc2a5,c109b30fe87e341f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!peer1.news.newnet.co.uk!
194.159.246.34.MISMATCH!peer-uk.news.demon.net!kibo.news.demon.net!
news.demon.co.uk!demon!clintsmc.demon.co.uk!clint
From: Clint Sharp <clint@clintsmc.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UAA2001 PLL SYNTHESIZER
Date: Tue, 22 Apr 2008 20:55:22 +0100
Organization: Little
Lines: 25
Message-ID: <R7h6TYEqKkDIFwCW@clintsmc.demon.co.uk>
References: <674f6kF2mnuvtU1@mid.dfncis.de>
NNTP-Posting-Host: clintsmc.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1208897887 12017 62.49.16.63 (22 Apr 2008 20:58:07 GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Tue, 22 Apr 2008 20:58:07 +0000 (UTC)
User-Agent: Turnpike/6.07-S (<2o2L$ZrzcvL2aJ87jZ2Lb2ljXB>)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15523

In message <674f6kF2mnuvtU1@mid.dfncis.de>, markus wolfgart
<markus.wolfgart@dlr.de> writes
>Hi OMs/OPs and NG readers,
>
>I'm looking for a pinout and/or data sheet of a old Motorola ic named
>
>UAA2001
Is that really a Moto device? Sounds more like a TFK (telefunken) or
Philips device to me. Of course I could be wrong..
>
>should be a pll synthesizer for TV tuners.
>
>Anyone who can help my on this?
>
>
>Many thanks in advance.
>
>Markus
>DL8MBY
>
>PS.: I had already searched for days without success in the web.
>

--
Clint Sharp
```

From 309409681061134645
X-Google-Thread: fc2a5,c109b30fe87e341f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.cpinternet!news.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 22 Apr 2008 17:15:22 -0500
Date: Tue, 22 Apr 2008 17:15:27 -0500
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UAA2001 PLL SYNTHESIZER
References: <674f6kF2mnuvtU1@mid.dfncis.de> <R7h6TYEqKkDIFwCW@clintsmc.demon.co.uk>
In-Reply-To: <R7h6TYEqKkDIFwCW@clintsmc.demon.co.uk>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <LJCdnZ4C7tnn_pPVnZ2dnUVZ_s_inZ2d@cpinternet>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-l28JEWHQWNoPpuMqgtdaKmFJpoP2+hxFTTGSnkFYvYYb1wPnl2zM9OSIAQlClF9YtF6rLqDC7oZTE/i!rLQjzPX7452dNMBWBh8mn571AkQLyV/vPAa5kWUz2nT04UHG31xcKbojxrQpFM+ld4MqNcR270QW!Vu9pQn6+OqAS
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:15524

Clint Sharp wrote:

<snip>
>> I'm looking for a pinout and/or data sheet of a old Motorola ic named
>>
>> UAA2001
>
> Is that really a Moto device? Sounds more like a TFK (telefunken) or
> Philips device to me. Of course I could be wrong..

Check the first URL that I posted in reply to the O.P.; you will see that this device is included in a 1986 Motorola Euro Master Selection Guide.

Michael

From -8513245954148847208
X-Google-Thread: fc2a5,c109b30fe87e341f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!8g2000hse.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UAA2001 PLL SYNTHESIZER
Date: Wed, 23 Apr 2008 05:47:40 -0700 (PDT)
Organization: http://groups.google.com
Lines: 24
Message-ID: <a6968f35-ba97-48a5-b67d-caa0b29362a0@8g2000hse.googlegroups.com>
References: <674f6kF2mnuvtU1@mid.dfncis.de>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1208954861 25224 127.0.0.1 (23 Apr 2008 12:47:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 23 Apr 2008 12:47:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 8g2000hse.googlegroups.com; posting-host=170.121.15.35;
posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15525

On Apr 21, 5:27=A0pm, markus wolfgart <markus.wolfg...@dlr.de> wrote:
> Hi OMs/OPs and NG readers,
>
> I'm looking for a pinout and/or data sheet of a old Motorola ic named
>
> UAA2001
>
> should be a pll synthesizer for TV tuners.

I always thought that was a Toshiba part.

80's era TV and VCR tuners are most interesting, IMHO, used as the tin-can modules. If the TV is still functional you can usually figure out the header connector functions with a voltmeter or even a logic probe - no need to dink around with pinouts.

Do modern TV's still have the tin-can tuner modules, or is it more highly integrated these days? Of course a modern TV isn't an analog TV anymore either...geeze, it's been at least a decade since I tore into broken TV's and VCR's for parts, I gotta start doing it again! If we're lucky there will be a huge flood of older analog TV's for scavenging soon.

Tim.

From 4301072559116829025
X-Google-Thread: fc2a5,e5990a35dd1dbb92,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wn14feed!worldnet.att.net!bgtnsc05-
news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: NOS NATIONAL COIL FORMS + STUFF
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <bpFEj.27932$D_3.6130@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: 433a0dbc3e38664f0b71223b160d2332
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X-Trace: bgtnsc05-news.ops.worldnet.att.net 1206067911
433a0dbc3e38664f0b71223b160d2332 (Fri, 21 Mar 2008 02:51:51 GMT)
NNTP-Posting-Date: Fri, 21 Mar 2008 02:51:51 GMT
Organization: AT&T Worldnet
Date: Fri, 21 Mar 2008 02:51:51 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15375

NOS NATIONAL RADIO COIL FORMS: XR 61, 70, & 71 + OTHER CATALOGS &
THINGS: see at:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

TNX Heytubeguy

From -8165622681156417306
X-Google-Thread: fc8b1,b4b9619d5e3d0418,start
X-Google-Thread: fc2a5,b4b9619d5e3d0418,start
X-Google-Attributes: gidfc8b1,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!spln!extra.newsguy.com!
newsp.newsguy.com!novatech
From: novatech@eskimo.com (Steven Swift)
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Bliley 100 kc BG9D crystal follow-up.
Date: 21 Mar 2008 22:57:27 GMT
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 28

Message-ID: <fs1egn0ru8@enews2.newsguy.com>
NNTP-Posting-Host:
p34d1bfbfff00000075d74a17a612d9d6714a05f946e87fc7e896643f5c8e55d6.newsdawg.com
Xref: g2news1.google.com rec.radio.amateur.boatanchors:14360
rec.radio.amateur.homebrew:15376

I cobbled up a two transistor oscillator, essentially copied from an
Atlas 210 Transciever schematic, to run the BG9D I got on Ebay while
back. The circuit is here:

http://novatech-instr.com/Fun/Crystals/bliley_q.jpg

I took an old octal based capacitor, emptied the insides and wound 106
turns (53 bifilar) of #27 wire on the aluminum case. This is the
heater. About 1 amp heated nicely to 70C. I used some hot-water pipe
insulator to cover it. An LM61 is used as a temp sensor. (epoxied to
the can) (I'll put up the temp controller schematic when I remember)

It is hard to set much closer than about +/-1ppm (needs a better
multiturn capacitor), but it is stable (short term) to better than
+/-.01ppm. That's pretty nice, but other than the fun of building it,
the performance is pretty useless. Roughly the equivalent of building a
crystal radio set.

I am going to replace the transistor with a 12AT7, just for show, and
call this little experiment done.

Steve.
--
Steven D. Swift, novatech@eskimo.com, http://www.novatech-instr.com
NOVATECH INSTRUMENTS, INC.   P.O. Box 55997
206.301.8986, fax 206.363.4367 Seattle, Washington 98155 USA

From 1265996710688123005
X-Google-Thread: fc8b1,8341521e01935dd7
X-Google-Thread: 10c2ee,8341521e01935dd7
X-Google-Thread: fc2a5,8341521e01935dd7
X-Google-Thread: 112d1e,8341521e01935dd7
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-
out.readnews.com!postnews3.readnews.com!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.antiques.radio+phono,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Re: Sylvania R1131C octal tube ?
From: hexter@blazenet.net (gudmundur)
Reply-To: retxeh@blazenet.net
Organization: Disconnect the dots

```
X-Newsreader: WinVN 0.99.6
References: <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>
MIME-Version: 1.0
Content-Type: Text/Plain; charset=US-ASCII
Date: 22 Mar 2008 03:18:48 GMT
Lines: 27
Message-ID: <47e47a97$0$11007$470ef3ce@news.pa.net>
NNTP-Posting-Host: 751e6535.news.pa.net
X-Trace: DXC=2lg7V1jYAc9\Fm[DU:lgg?9B5=CnbAAl:bmQKe9R_:9;kThfT2FYZH6akNQG1iC5O?
e==iBHW4cT<
X-Complaints-To: abuse@pa.net
Xref: g2news1.google.com rec.radio.amateur.boatanchors:14365
rec.antiques.radio+phono:95116 rec.radio.amateur.homebrew:15377
sci.electronics.design:328192

In article <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>,
kolesnik@nojunksbcglobal.net says...
>
>I got a couple of the subject tubes which are supposed to be "glow
>modulator tubes".  Best I can determine is that the light output will
>vary with current but I can't find  data sheet googling.  If anyone has
>pinout and/or data I'd sure like to see it.  I think it might be a mid
>1960s item as my 1957  Sylvania manual doesn't show it.
>thanks
>
>--
>
>73
>Hank WD5JFR

Everyone replies, and yet you get no answers,

R-1131C,D
Max dcv 150
ma. 3-25
peak ma. 55
starting voltage 225
crater dia. .093
candelpower .2@25 ma.
light color  white





From 6217932959095561435
X-Google-Thread: fc2a5,c5e3af0e5e8d3093,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!a23g2000hsc.googlegroups.com!not-for-
mail
From: Jean-Daniel HB9AKQ <cianajd@bluewin.ch>
Newsgroups: rec.radio.amateur.homebrew
Subject: 45-70MHz crystal filters, MQF,lattice,ladder?
```

```
Date: Sat, 22 Mar 2008 01:49:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 27
Message-ID: <e59019b4-93c3-4596-9eda-f2f9895508cb@a23g2000hsc.googlegroups.com>
NNTP-Posting-Host: 83.79.138.103
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1206175775 9677 127.0.0.1 (22 Mar 2008 08:49:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 22 Mar 2008 08:49:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a23g2000hsc.googlegroups.com; posting-host=83.79.138.103;
     posting-account=RWCAMAoAAAAts_xWArDVibu5q5yk4e6R
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322; .NET CLR
     3.0.04506.648),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15378
```

Hello,

I am in the process of choosing a technology for a crystal filter in that frequency range. I am facing the choice of buying a filter and paying the price, or to build a filter myself.

The questions I am facing are these:
1) Do the MQF (Monolytic Crystal Filter) withstand high level signals, like 1 mW or more, and what is their shape on the frequency domain (do they go steeply down and do they have parasitic responses) ?

2) I am actually ready to try one of the lattice crystal filters as described by Rhode in his may 1981 article (I can send you a copy for the asking), where there are 4 crystals in 2 pairs separated in frequency by about the 2 thirds of the desired passband. I would find the crystals by sorting out batches of crystals on the frequency meter. One can put 2 of these filters in series separated by a 1-dB resistive pad (8 crystals total). Any experience to report on these filters?

3) How good are ladder filters with overtone crystals? I do know that ladder filters with such crystals are excellent on their fundamental (3rd overtone crystals), but can you have them filter on the overtone, with a tuned circuit up front ?

Thanks for the comments
Jean-Daniel HB9AKQ

```
From 3390614196722481533
X-Google-Thread: fc2a5,c5e3af0e5e8d3093
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
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Path: g2news1.google.com!postnews.google.com!n77g2000hse.googlegroups.com!not-for-mail
From: Leon <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 45-70MHz crystal filters, MQF,lattice,ladder?
Date: Sat, 22 Mar 2008 08:17:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 29
Message-ID: <b0a6251e-c8f6-4f37-a3c1-fa5c47cce026@n77g2000hse.googlegroups.com>
References: <e59019b4-93c3-4596-9eda-f2f9895508cb@a23g2000hsc.googlegroups.com>
NNTP-Posting-Host: 82.238.71.207
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1206199048 16064 127.0.0.1 (22 Mar 2008 15:17:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 22 Mar 2008 15:17:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n77g2000hse.googlegroups.com; posting-host=82.238.71.207;
posting-account=QWZLZQkAAADFmB_RJlmk3T-GvINRaZti
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; YPC
3.2.0; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15379

On Mar 22, 9:49=A0am, Jean-Daniel HB9AKQ <cian...@bluewin.ch> wrote:
> Hello,
>
> I am in the process of choosing a technology for a crystal filter in
> that frequency range. I am facing the choice of buying a filter and
> paying the price, or to build a filter myself.
>
> The questions I am facing are these:
> 1) Do the MQF (Monolytic Crystal Filter) withstand high level signals,
> like 1 mW or more, and what is their shape on the frequency domain (do
> they go steeply down and do they have parasitic responses) ?
>
> 2) I am actually ready to try one of the lattice crystal filters as
> described by Rhode in his may 1981 article (I can send you a copy for
> the asking), where there are 4 crystals in 2 pairs separated in
> frequency by about the 2 thirds of the desired passband. I would find
> the crystals by sorting out batches of crystals on the frequency
> meter. One can put 2 of these filters in series separated by a 1-dB
> resistive pad (8 crystals total). Any experience to report on these
> filters?
>
> 3) How good are ladder filters with overtone crystals? I do know that
> ladder filters with such crystals are excellent on their fundamental
> (3rd overtone crystals), but can you have them filter on the overtone,
> with a tuned circuit up front ?

It's quite easy to buy 40 MHz fundamental crystals, which could be
used for a ladder filter.

From -577201648775007113
X-Google-Thread: fc2a5,c5e3af0e5e8d3093
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 45-70MHz crystal filters, MQF,lattice,ladder?
Date: 22 Mar 2008 15:50:09 GMT
Organization: The National Capital FreeNet
Lines: 20
Message-ID: <fs39rh$hhk$1@theodyn.ncf.ca>
References: <e59019b4-93c3-4596-9eda-f2f9895508cb@a23g2000hsc.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1206201009 17972 134.117.136.48 (22 Mar 2008 15:50:09 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 22 Mar 2008 15:50:09 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15380

Jean-Daniel HB9AKQ (cianajd@bluewin.ch) writes:

> Hello,
>
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> that frequency range. I am facing the choice of buying a filter and
> paying the price, or to build a filter myself.
>

Are you hoping/expecting to get a narrow filter out of this, or will
it be a roofing filter, with the real selectivity at a different frequency?

I thought there were limitations on selectivity at those frequencies.
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long time since I read that QST article, which is the only article in
the ham magazines that I've seen about making crystal filters that high
up, I thought it addressed that issue).

If it's just a roofing filter you need, you can pull one out of an older
cellphone. The big clunky kind have parts that are recognizable.

Michael VE2BVW

From 8649731279342776300
X-Google-Thread: fc2a5,c5e3af0e5e8d3093
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!d62g2000hsf.googlegroups.com!not-for-mail
From: Jean-Daniel HB9AKQ <cianajd@bluewin.ch>

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 45-70MHz crystal filters, MQF,lattice,ladder?
Date: Sat, 22 Mar 2008 10:58:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 42
Message-ID: <7db57f69-6368-4c68-9f6d-5addae5f04be@d62g2000hsf.googlegroups.com>
References: <e59019b4-93c3-4596-9eda-f2f9895508cb@a23g2000hsc.googlegroups.com>
     <b0a6251e-c8f6-4f37-a3c1-fa5c47cce026@n77g2000hse.googlegroups.com>
NNTP-Posting-Host: 83.79.138.103
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1206208715 13273 127.0.0.1 (22 Mar 2008 17:58:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 22 Mar 2008 17:58:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d62g2000hsf.googlegroups.com; posting-host=83.79.138.103;
     posting-account=RWCAMAoAAAAts_xWArDVibu5q5yk4e6R
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322; .NET CLR
     3.0.04506.648),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15381

On 22 mar, 16:17, Leon <leon...@btinternet.com> wrote:
> On Mar 22, 9:49=A0am, Jean-Daniel HB9AKQ <cian...@bluewin.ch> wrote:
>
>
>
>
>
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> > (3rd overtone crystals), but can you have them filter on the overtone,
> > with a tuned circuit up front ?
>
> It's quite easy to buy 40 MHz fundamental crystals, which could be
> used for a ladder filter.- Masquer le texte des messages pr=E9c=E9dents -
>
> - Afficher le texte des messages pr=E9c=E9dents -

Oh, I'll check that out, the highest I saw was around 24MHz at 1mW,
but I also quite a few at Digikey's going to 50MHz,but I do not know
if they are overtone or not. In any case they withstand only 50 or 200
uW, which is not enough for an up-conversion roofing filter that gets
dBm galore


From -1943981032904987729
X-Google-Thread: fc2a5,c5e3af0e5e8d3093
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!e39g2000hsf.googlegroups.com!not-for-
mail
From: Jean-Daniel HB9AKQ <cianajd@bluewin.ch>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 45-70MHz crystal filters, MQF,lattice,ladder?
Date: Sat, 22 Mar 2008 11:05:15 -0700 (PDT)
Organization: http://groups.google.com
Lines: 32
Message-ID: <07820930-92ee-4b34-9910-6e1bb97dbcc3@e39g2000hsf.googlegroups.com>
References: <e59019b4-93c3-4596-9eda-f2f9895508cb@a23g2000hsc.googlegroups.com>
     <fs39rh$hhk$1@theodyn.ncf.ca>
NNTP-Posting-Host: 83.79.138.103
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1206209116 14032 127.0.0.1 (22 Mar 2008 18:05:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 22 Mar 2008 18:05:16 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e39g2000hsf.googlegroups.com; posting-host=83.79.138.103;
     posting-account=RWCAMAoAAAAts_xWArDVibu5q5yk4e6R
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322; .NET CLR
     3.0.04506.648),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15382

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```

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>
> =A0 =A0Michael =A0VE2BVW

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cellphones can do that. The frequency should be between 45 and 80 MHz
and the price should be right. What is your experience on this?

Thanks
Jean-Daniel HB9AKQ

From -6943801339378749149
X-Google-Thread: fc8b1,8341521e01935dd7
X-Google-Thread: 10c2ee,8341521e01935dd7
X-Google-Thread: fc2a5,8341521e01935dd7
X-Google-Thread: 112d1e,8341521e01935dd7
X-Google-Attributes: gidfc8b1,gid10c2ee,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!newssvr22.news.prodigy.net.POSTED!78bb86ef!not-for-mail
From: JosephKK <quiettechblue@yahoo.com>
Newsgroups: rec.radio.amateur.boatanchors,rec.antiques.radio+phono,rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Sylvania R1131C octal tube ?
Message-ID: <sakau35rgpjhslubpkc8s3eeks6n61iec9@4ax.com>
References: <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net> <13tp4egkuf3sb69@corp.supernews.com> <PjEDj.2253$jw2.67@trndny04> <13tubbhn5jefa06@corp.supernews.com>
X-Newsreader: Forte Agent 4.2/32.1118 trialware
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 44
NNTP-Posting-Host: 69.237.118.102

```
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr22.news.prodigy.net 1206210922 ST000 69.237.118.102 (Sat, 22 Mar
2008 14:35:22 EDT)
NNTP-Posting-Date: Sat, 22 Mar 2008 14:35:22 EDT
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
TSU[@I_A\S@GRQD[KBOT_I\@TZXBAGXOVP\@NDEMCH]VGBIGFWMUCS_]^GXJHVKHGFFIZHBL@FX\NIOC@F
WYNV\DMNS[HTLIXX\^BUGBXLR@PB@\FKCLXSWAIDFOKG^MFT[GZN^NWY_GVLSRGDYY^AW_MS_RW]
[KBYZMADO@Y[ABPSPE_TA@LTLFXVTC@RJM
Date: Sat, 22 Mar 2008 11:38:23 -0700
Xref: g2news1.google.com rec.radio.amateur.boatanchors:14367
rec.antiques.radio+phono:95162 rec.radio.amateur.homebrew:15383
sci.electronics.design:328273

On Mon, 17 Mar 2008 19:48:06 -0700, "Richard Knoppow"
<dickburk@ix.netcom.com> wrote:

>
>"Martin Riddle" <martin_rid@verizon.net> wrote in message
>news:PjEDj.2253$jw2.67@trndny04...
>>
>> "Robert Baer" <robertbaer@localnet.com> wrote in message
>> news:13tp4egkuf3sb69@corp.supernews.com...
>>> Henry Kolesnik wrote:
>>>> I got a couple of the subject tubes which are supposed
>>>> to be "glow modulator tubes".  Best I can determine is
>>>> that the light output will vary with current but I can't
>>>> find  data sheet googling.  If anyone has pinout and/or
>>>> data I'd sure like to see it.  I think it might be a mid
>>>> 1960s item as my 1957  Sylvania manual doesn't show it.
>>>> thanks
>>>>
>>>   I have a Sylania Technical Manual of tube data sheets
>>> dated 1959 and have the blue add-ons to 1960, and that
>>> tube is not listed anywhere in it.
>>>   Sorry.
>>
>> Hi Robert,
>>
>> I have some PDF's of scanned tube manuals(Eimac, Taylor
>> RCA), I would love to trade a few for a pdf of the
>> Sylvania Manuals. If interested email me.
>>
>> Cheers
>>
>    There is a Sylvania tube manual on-line at:
>http://www.pmillett.com/sylvania_tube_manuals_online.htm
>
>However, it does not cover the R1131C
>
>    Lots of other good stuff on this site including several
>RCA tube manuals and many books. All in PDF form but _very_
>large files.
```

Pretty good, but not my idea of big files. That starts with very full
CD images and up. I do not bat an eye at downloading full multiple
DVD distributions of Linux. I have dual layer rewriters and media as
well.

```
From -5992255509175799605
X-Google-Thread: fc2a5,c5e3af0e5e8d3093
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 22 Mar 2008 16:16:16 -0500
Date: Sat, 22 Mar 2008 14:16:27 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.12 (Windows/20080213)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 45-70MHz crystal filters, MQF,lattice,ladder?
References: <e59019b4-93c3-4596-9eda-f2f9895508cb@a23g2000hsc.googlegroups.com>
     <b0a6251e-c8f6-4f37-a3c1-fa5c47cce026@n77g2000hse.googlegroups.com>
<7db57f69-6368-4c68-9f6d-5addae5f04be@d62g2000hsf.googlegroups.com>
In-Reply-To: <7db57f69-6368-4c68-9f6d-5addae5f04be@d62g2000hsf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Message-ID: <eomdnd7r5L-96njanZ2dnUVZ_o3inZ2d@web-ster.com>
Lines: 53
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 65.182.238.190
X-Trace: sv3-o92Ql8zV/dqNT0Y2Rf8xMrLENiAIw3q/z8f5jyLQjJUtX44sWpQnzvAmH4rE/
+nTWN5JXJEJZNS7jQh!9Kxn3T8Lu4G/
RcdqCkdTr7GxjGUd6PMKenCuuGyWroQfoMfBLi0M6yBEN16VwsOr0O9Yhgnqmf28!BB2kyPGpNVbHpJjw
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15384
```

Jean-Daniel HB9AKQ wrote:
> On 22 mar, 16:17, Leon <leon...@btinternet.com> wrote:
>> On Mar 22, 9:49 am, Jean-Daniel HB9AKQ <cian...@bluewin.ch> wrote:
>>
>>
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> if they are overtone or not. In any case they withstand only 50 or 200
> uW, which is not enough for an up-conversion roofing filter that gets
> dBm galore

The power ratings on crystals are their allowable _dissipation_, not the amount that can be going _through_ them. So you want to look at the amount of power being lost in the filter to estimate capabilities, not the amount of power being dissipated at your load.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From -7318520437499571926
X-Google-Thread: fc2a5,c5e3af0e5e8d3093
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.acm.uiuc.edu!
news.xcski.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 45-70MHz crystal filters, MQF,lattice,ladder?

Date: 23 Mar 2008 03:14:12 GMT
Organization: The National Capital FreeNet
Lines: 56
Message-ID: <fs4hu4$9il$1@theodyn.ncf.ca>
References: <e59019b4-93c3-4596-9eda-f2f9895508cb@a23g2000hsc.googlegroups.com>
<07820930-92ee-4b34-9910-6e1bb97dbcc3@e39g2000hsf.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1206242052 9813 134.117.136.48 (23 Mar 2008 03:14:12 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 23 Mar 2008 03:14:12 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15385

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>> =A0 =A0Michael =A0VE2BVW
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> I am not sure that the MQF you find on the market or in older
> cellphones can do that. The frequency should be between 45 and 80 MHz
> and the price should be right. What is your experience on this?
>
But then it's not really a roofing filter.

That term applies to a filter used after the first mixer to limit
the passband but which doesn't provide ultimate selectivity.

My point was that I wonder if you can get a few KHz of selectivity
up there. Otherwise, we'd surely see it in commercial equipment

and even home made. All the design books decades ago would say the
best design is to put the ultimate selectivity right after the first
mixer of a receiver, yet as receiver design changed to put the first
IF in the 45 to 70MHz range, I've never seen an instance of a narrow
filter right after the first mixer.

I don't know whether it can be done, but the fact that it isn't done
suggests there are limitations.

The filters in a cellphone would be wide enough for FM, and given that
all the cellphones I've seen convert to a lower frequency where there
is another filter, they probably are relatively loose filters up at
45MHz or so.

MIchael VE2BVW

```
From -3851918406284764138
X-Google-Thread: fc2a5,c5e3af0e5e8d3093
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe20.lga.POSTED!53ab2750!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <e59019b4-93c3-4596-9eda-f2f9895508cb@a23g2000hsc.googlegroups.com>
<07820930-92ee-4b34-9910-6e1bb97dbcc3@e39g2000hsf.googlegroups.com>
<fs4hu4$9il$1@theodyn.ncf.ca>
Subject: Re: 45-70MHz crystal filters, MQF,lattice,ladder?
Lines: 33
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <kvkFj.36984$QC.2852@newsfe20.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe20.lga 1206244432 72.209.25.33 (Sat, 22 Mar 2008 20:53:52 MST)
NNTP-Posting-Date: Sat, 22 Mar 2008 20:53:52 MST
Organization: Cox
Date: Sat, 22 Mar 2008 23:53:51 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:15386
```

"Michael Black" <et472@FreeNet.Carleton.CA> wrote in message news:fs4hu4 >

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> all the cellphones I've seen convert to a lower frequency where there
> is another filter, they probably are relatively loose filters up at
> 45MHz or so.
>
>   MIchael VE2BVW

Michael,

I am not up on this, but I believe narrow BW roofing filters are now
being marketed for many rigs. InRad has some, and I am pretty sure
TenTec offers them.

Pete
>

From 1243330042663502306
X-Google-Thread: fc2a5,c5e3af0e5e8d3093
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 23 Mar 2008 11:06:18 -0500
From: Edward Feustel <efeustel@hughes.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 45-70MHz crystal filters, MQF,lattice,ladder?
Date: Sun, 23 Mar 2008 12:06:02 -0400
Message-ID: <6sucu397pu8tflfi7689drjh3rvf3a5qk3@4ax.com>
References: <e59019b4-93c3-4596-9eda-f2f9895508cb@a23g2000hsc.googlegroups.com>
<07820930-92ee-4b34-9910-6e1bb97dbcc3@e39g2000hsf.googlegroups.com>
<fs4hu4$9il$1@theodyn.ncf.ca> <kvkFj.36984$QC.2852@newsfe20.lga>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 45
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-1DHcnmP+wWqSoy3D9S4R2+h2Ay5LwH9RUK49IkW3F/
i7NeDw7K05KRU+bJyXMLXKBbhTUJZkexAdSGe!n6jTLLqOnZNLDHvi+20f6SZNvsGs/
QjjIhjOE4AsU2rNmTpCHCZ4cfdmqwU8LBRVoM+URw==

X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15387

On Sat, 22 Mar 2008 23:53:51 -0400, "Tio Pedro"
<radioconnection@cox.net> wrote:

>
>"Michael Black" <et472@FreeNet.Carleton.CA> wrote in message news:fs4hu4 >
>> That term applies to a filter used after the first mixer to limit
>> the passband but which doesn't provide ultimate selectivity.
>>
>> My point was that I wonder if you can get a few KHz of selectivity
>> up there. Otherwise, we'd surely see it in commercial equipment
>> and even home made. All the design books decades ago would say the
>> best design is to put the ultimate selectivity right after the first
>> mixer of a receiver, yet as receiver design changed to put the first
>> IF in the 45 to 70MHz range, I've never seen an instance of a narrow
>> filter right after the first mixer.
>>
>> I don't know whether it can be done, but the fact that it isn't done
>> suggests there are limitations.
>>
>> The filters in a cellphone would be wide enough for FM, and given that
>> all the cellphones I've seen convert to a lower frequency where there
>> is another filter, they probably are relatively loose filters up at
>> 45MHz or so.
>>
>>   MIchael VE2BVW
>
>Michael,
>
>I am not up on this, but I believe narrow BW roofing filters are now
>being marketed for many rigs. InRad has some, and I am pretty sure
>TenTec offers them.
>
>Pete
>>
>
Pete,
The Ten Tec Transciever filters are at 9 MHz except in the "general
coverage up convert" receivers. in which case they are not narrow at
all.

Note that INRAD offers roofing filters 4-5 KHz wide at VHF frequencies
from 40 to 73 MHz (see page 13 of their catalog) with i/o impedances
of 50 ohms : http://www.inrad.net/inrad.php?mode=catalog

Ed, N5EI

From -4884515975888166035
X-Google-Thread: fc2a5,c5e3af0e5e8d3093
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe21.lga.POSTED!53ab2750!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <e59019b4-93c3-4596-9eda-f2f9895508cb@a23g2000hsc.googlegroups.com>
<07820930-92ee-4b34-9910-6e1bb97dbcc3@e39g2000hsf.googlegroups.com>
<fs4hu4$9il$1@theodyn.ncf.ca> <kvkFj.36984$QC.2852@newsfe20.lga>
<6sucu397pu8tflfi7689drjh3rvf3a5qk3@4ax.com>
Subject: Re: 45-70MHz crystal filters, MQF,lattice,ladder?
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <6jvFj.45886$097.16133@newsfe21.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe21.lga 1206288706 72.209.25.33 (Sun, 23 Mar 2008 09:11:46 MST)
NNTP-Posting-Date: Sun, 23 Mar 2008 09:11:46 MST
Organization: Cox
Date: Sun, 23 Mar 2008 12:11:46 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:15388

"Edward Feustel" <efeustel@hughes.net> wrote in message news: > > Pete,
> The Ten Tec Transciever filters are at 9 MHz except in the "general
> coverage up convert" receivers. in which case they are not narrow at
> all.
>
> Note that INRAD offers roofing filters 4-5 KHz wide at VHF frequencies
> from 40 to 73 MHz (see page 13 of their catalog) with i/o impedances
> of 50 ohms : http://www.inrad.net/inrad.php?mode=catalog
>
> Ed, N5EI

Thanks Ed, I haven't kept with this at all. The INRAD 4 to 5 kHz BW roofing filters sound very interesting though. A lot better than the 18-kHz BW 40.455-MHz monolythics I've played with in the past.

Pete

From -5000581059090251770
X-Google-Thread: fc2a5,4a5a52db5cf44d04,start

X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
u10g2000prn.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 7360/6AR8 mixer configs
Date: Sun, 23 Mar 2008 10:16:52 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <d5ce3035-b5a1-461e-989c-2076f2c0140d@u10g2000prn.googlegroups.com>
NNTP-Posting-Host: 63.73.218.152
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1206292613 981 127.0.0.1 (23 Mar 2008 17:16:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 23 Mar 2008 17:16:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u10g2000prn.googlegroups.com; posting-host=63.73.218.152;
posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15389

Looking at how I would configure a 7360-type mixer in the front end of a low-band (say 80M and 40M) receiver.

Method A: To me, the most obvious way to do it is to feed the RF into the 7360's grid, and feed the deflection plates with balanced local oscillator input at circa 10 or 20 V P-P. Put a center-tapped transformer to the anodes and pull the output out of a winding.

BUT... that's not what I see being done in the various app notes.

Method B: I see, for example, feeding RF into a single deflection plate, and putting a pot for fine-tuning the balance on the other plate. LO is injected into the 7360's grid. (e.g. page 6 of http://www.ab4oj.com/1st/hb/7360/7360.pdf). I think the intention here is not to saturate the deflector beam inputs into switching mode, but to keep the amplitudes small where it'll be linear.

What's the advantages and gotchas of doing it each way? Method A takes a lot of LO amplitude and has the highest gain for the RF. Method B takes less LO amplitude but I think has lower gain. Method A cancels out the LO, and Method B cancels out the original RF. Right?

Of course two 7360's would let me do a doubly-balanced mixer... can't afford 7360's but I do have some 6AR8's!

Tim N3QE.

From 4206171792343464537
X-Google-Thread: fc8b1,8341521e01935dd7
X-Google-Thread: 10c2ee,8341521e01935dd7
X-Google-Thread: fc2a5,8341521e01935dd7
X-Google-Thread: 112d1e,8341521e01935dd7
X-Google-Attributes: gidfc8b1,gid10c2ee,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!sn-xt-sjc-02!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Richard Knoppow" <dickburk@ix.netcom.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.antiques.radio+phono,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Re: Sylvania R1131C octal tube ?
Date: Sun, 23 Mar 2008 16:46:50 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13udqvdloks0v68@corp.supernews.com>
References: <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>
<47e47a97$0$11007$470ef3ce@news.pa.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 44
Xref: g2news1.google.com rec.radio.amateur.boatanchors:14374
rec.antiques.radio+phono:95208 rec.radio.amateur.homebrew:15390
sci.electronics.design:328458

"gudmundur" <hexter@blazenet.net> wrote in message
news:47e47a97$0$11007$470ef3ce@news.pa.net...
> In article
> <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>,
> kolesnik@nojunksbcglobal.net says...
>>
>>I got a couple of the subject tubes which are supposed to
>>be "glow
>>modulator tubes". Best I can determine is that the light
>>output will
>>vary with current but I can't find data sheet googling.
>>If anyone has
>>pinout and/or data I'd sure like to see it. I think it
>>might be a mid
>>1960s item as my 1957 Sylvania manual doesn't show it.
>>thanks
>>
>>--
>>
>>73
>>Hank WD5JFR

```
>
> Everyone replies, and yet you get no answers,
>
> R-1131C,D
> Max dcv 150
> ma. 3-25
> peak ma. 55
> starting voltage 225
> crater dia. .093
> candelpower .2@25 ma.
> light color  white
>
     What is the pin arrangement?


--
---
Richard Knoppow
Los Angeles, CA, USA
dickburk@ix.netcom.com





From -5145483347161349220
X-Google-Thread: fc8b1,8341521e01935dd7
X-Google-Thread: 10c2ee,8341521e01935dd7
X-Google-Thread: fc2a5,8341521e01935dd7
X-Google-Thread: 112d1e,8341521e01935dd7
X-Google-Attributes: gidfc8b1,gid10c2ee,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder2-2.proxad.net!62.253.162.218.MISMATCH!news-in.ntli.net!newsrout1-
win.ntli.net!ntli.net!news.highwinds-media.com!sn-xt-sjc-03!sn-xt-sjc-06!sn-xt-
sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Richard Knoppow" <dickburk@ix.netcom.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.antiques.radio+phono,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Re: Sylvania R1131C octal tube ?
Date: Sun, 23 Mar 2008 16:48:19 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13udr26kehk9g7a@corp.supernews.com>
References: <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>
<47e47a97$0$11007$470ef3ce@news.pa.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 44
Xref: g2news1.google.com rec.radio.amateur.boatanchors:14375
```

rec.antiques.radio+phono:95209 rec.radio.amateur.homebrew:15391
sci.electronics.design:328459

"gudmundur" <hexter@blazenet.net> wrote in message
news:47e47a97$0$11007$470ef3ce@news.pa.net...
> In article
> <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>,
> kolesnik@nojunksbcglobal.net says...
>>
>>I got a couple of the subject tubes which are supposed to
>>be "glow
>>modulator tubes". Best I can determine is that the light
>>output will
>>vary with current but I can't find data sheet googling.
>>If anyone has
>>pinout and/or data I'd sure like to see it. I think it
>>might be a mid
>>1960s item as my 1957 Sylvania manual doesn't show it.
>>thanks
>>
>>--
>>
>>73
>>Hank WD5JFR
>
> Everyone replies, and yet you get no answers,
>
> R-1131C,D
> Max dcv 150
> ma. 3-25
> peak ma. 55
> starting voltage 225
> crater dia. .093
> candelpower .2@25 ma.
> light color white
>
     What is the pin arrangement?

--

Richard Knoppow
Los Angeles, CA, USA
dickburk@ix.netcom.com

From 3767114952578802340
X-Google-Thread: fc2a5,eab57e3edd0d857b,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.bt.com!news.bt.com.POSTED!
not-for-mail
NNTP-Posting-Date: Sun, 23 Mar 2008 18:52:47 -0500
From: "ferrymanr" <richardferryman@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Really tiny soldering iron??
Date: Sun, 23 Mar 2008 23:52:45 -0000
MIME-Version: 1.0
Content-Type: text/plain;
    format=flowed;
    charset="iso-8859-1";
    reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18000
Message-ID: <A86dnbzxCr7ScHvanZ2dneKdnZydnZ2d@bt.com>
Lines: 18
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 86.135.120.47
X-AuthenticatedUsername: NoAuthUser
X-Trace: sv3-kkuefHM9jXkiBKl9JxdzrTQcu/
oTdEJWdE1zJJShcAkebt67DT5yza3tw9AZroLqzm2nnj7QYb0W9iE!TQDMogYOAha3YPBgNqc/
3NwnM93BKhhyzM0Rkacph6I4UXidnFlxXrl3DdrTUXje8hzYMpqp3HY=
X-Complaints-To: abuse@btinternet.com
X-DMCA-Complaints-To: abuse@btinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15392

I wonder if anyone knows of a really small soldering iron (half the diameter of the Antex 12W iron). I have one I purchased in USA about 20 years ago and the element has now failed. As the manufacturers name has worn off the handle I am at a loss as to where to get a replacement. A search of the web has proved fruitless. It is the only iron I have had that can fit between other components or in very confined spaces when replacing SMD resistors etc.

Original iron:-
Overall length handle and bit 145mm (5 1/2")
Handle diameter 9mm
Shaft (element) diameter 1.6mm
Bit maximum diameter 3mm
Bit tip approximately 0.5mm - may be less.
Supply 12V

Dick G4BBH

From 2360023001329637937
X-Google-Thread: fc2a5,4a5a52db5cf44d04
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!130.81.64.211.MISMATCH!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe19.lga.POSTED!53ab2750!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <d5ce3035-b5a1-461e-989c-2076f2c0140d@u10g2000prn.googlegroups.com>
Subject: Re: 7360/6AR8 mixer configs
Lines: 37
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <mADFj.17190$KJ1.9927@newsfe19.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe19.lga 1206322578 72.209.25.33 (Sun, 23 Mar 2008 18:36:18 MST)
NNTP-Posting-Date: Sun, 23 Mar 2008 18:36:18 MST
Organization: Cox
Date: Sun, 23 Mar 2008 21:36:18 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:15393

"Tim Shoppa" <shoppa@trailing-edge.com> wrote in message
news:d5ce3035-b5a1-461e-989c-2076f2c0140d@u10g2000prn.googlegroups.com...
> Looking at how I would configure a 7360-type mixer in the front end of
> a low-band (say 80M and 40M) receiver.
>
> Method A: To me, the most obvious way to do it is to feed the RF into
> the 7360's grid, and feed the deflection plates with balanced local
> oscillator input at circa 10 or 20 V P-P. Put a center-tapped
> transformer to the anodes and pull the output out of a winding.
>
> BUT... that's not what I see being done in the various app notes.
>
> Method B: I see, for example, feeding RF into a single deflection
> plate, and putting a pot for fine-tuning the balance on the other
> plate. LO is injected into the 7360's grid. (e.g. page 6 of
> http://www.ab4oj.com/1st/hb/7360/7360.pdf). I think the intention
> here is not to saturate the deflector beam inputs into switching mode,
> but to keep the amplitudes small where it'll be linear.
>
> What's the advantages and gotchas of doing it each way? Method A takes
> a lot of LO amplitude and has the highest gain for the RF. Method B
> takes less LO amplitude but I think has lower gain. Method A cancels
> out the LO, and Method B cancels out the original RF. Right?
>

> Of course two 7360's would let me do a doubly-balanced mixer... can't
> afford 7360's but I do have some 6AR8's!
>
> Tim N3QE.

Why not take a peek at the old Sanders articles that ran in the 1960s in
QST? Or, take a lot at the schematics for the Squires-Sanders RX on
BAMA for some real world applications.

Pete

```
From 1679061064603835282
X-Google-Thread: fc2a5,c5e3af0e5e8d3093
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
n58g2000hsf.googlegroups.com!not-for-mail
From: Jean-Daniel HB9AKQ <cianajd@bluewin.ch>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 45-70MHz crystal filters, MQF,lattice,ladder?
Date: Mon, 24 Mar 2008 03:37:26 -0700 (PDT)
Organization: http://groups.google.com
Lines: 42
Message-ID: <3e4a6b60-0232-4dea-ad0c-daa733c0dc1e@n58g2000hsf.googlegroups.com>
References: <e59019b4-93c3-4596-9eda-f2f9895508cb@a23g2000hsc.googlegroups.com>
     <07820930-92ee-4b34-9910-6e1bb97dbcc3@e39g2000hsf.googlegroups.com>
     <fs4hu4$9il$1@theodyn.ncf.ca> <kvkFj.36984$QC.2852@newsfe20.lga>
     <6sucu397pu8tflfi7689drjh3rvf3a5qk3@4ax.com>
<6jvFj.45886$097.16133@newsfe21.lga>
NNTP-Posting-Host: 83.78.143.7
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1206355046 9880 127.0.0.1 (24 Mar 2008 10:37:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 24 Mar 2008 10:37:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n58g2000hsf.googlegroups.com; posting-host=83.78.143.7;
     posting-account=RWCAMAoAAAAts_xWArDVibu5q5yk4e6R
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322; .NET CLR
     3.0.04506.648),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15394
```

On Mar 23, 5:11=A0pm, "Tio Pedro" <radioconnect...@cox.net> wrote:
> "Edward Feustel" <efeus...@hughes.net> wrote in message news: > =A0> Pete,=

> > The Ten Tec Transciever filters are at 9 MHz except in the "general
> > coverage up convert" receivers. in which case they are not narrow at

> > all.
>
> > Note that INRAD offers roofing filters 4-5 KHz wide at VHF frequencies
> > from 40 to 73 MHz (see page 13 of their catalog) with i/o impedances
> > of 50 ohms :http://www.inrad.net/inrad.php?mode=3Dcatalog
>
> > Ed, N5EI
>
> Thanks Ed, =A0I haven't kept with this at all. =A0The INRAD 4 to 5 kHz BW
> roofing filters sound very interesting though. =A0A lot better than the
> 18-kHz =A0BW 40.455-MHz monolythics I've played with in the past.
>
> Pete

Hello, to you all who answered this thread lately,
I learned quite a lot, although I knew part of it.

What I can see is that there are roofing filters in the low VHF that
have a narrow bandwidth of about 5kHz. I also learned (was reminded)
that the dissipation power of a crystal could be less than the power
that it could pass. Thanks for the INRAD catatolg, I knew the firm,
I'll go back and have a look at the whole site; it is still my opinion
that it is cheaper to build than buy.

My goal is to have a roofing filter steep enough to be content with
the IQ processing in software and not in hardware, with a 2nd IF in
the dozens of kHz range.

A propos crystal filter, I experienced the SWAN 700CX 16-pole filter -
a dream!! I still have the transceiver in the basement, I would have
to reconstruct the electrolytics I suppose.

I do have the Rhode article on PDF, along with the basic program
adapted to MS-DOS QBASIC, just ask for it, I would send them, as I do
not know how to annex files to the thread.

73 from Jean-Daniel HB9AKQ

From -6181625879640476929
X-Google-Thread: fc2a5,f874e2070b03d9da
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e39g2000hsf.googlegroups.com!not-for-mail
From: Eric <englere_geo@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need Article from July 1986 QST P 45
Date: Mon, 24 Mar 2008 05:57:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 10
Message-ID: <fc70d465-3500-4891-9fc1-699f06784d1a@e39g2000hsf.googlegroups.com>
References: <dk81r35j0230klugrkldde6m1idc557ogs@4ax.com>

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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1206363466 29076 127.0.0.1 (24 Mar 2008 12:57:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 24 Mar 2008 12:57:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e39g2000hsf.googlegroups.com; posting-host=24.98.128.174;
     posting-account=QOYPGwoAAACUkIyf4nCRirViFssPwprQ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.12)
     Gecko/20080201 Firefox/2.0.0.12,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15395
```

On Feb 11, 3:45 pm, WA5DXP <nos...@nospam.com> wrote:

> Anyone have the above QST that can possibly scan an article
> E-mail it to me or give me some dimensions from the article?
>
> "Adapting Hy Tower for use on 30 M"

Maybe the company can give you this info? I think the Hy Tower is back
in production now, isn't it?

Eric

```
From 7678254512157838778
X-Google-Thread: fc2a5,4a5a52db5cf44d04
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!2g2000hsn.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 7360/6AR8 mixer configs
Date: Mon, 24 Mar 2008 07:09:30 -0700 (PDT)
Organization: http://groups.google.com
Lines: 55
Message-ID: <d6cfcba2-5d50-4c5c-a7df-4e92244f968e@2g2000hsn.googlegroups.com>
References: <d5ce3035-b5a1-461e-989c-2076f2c0140d@u10g2000prn.googlegroups.com>
     <mADFj.17190$KJ1.9927@newsfe19.lga>
NNTP-Posting-Host: 170.121.15.46
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1206367770 16884 127.0.0.1 (24 Mar 2008 14:09:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 24 Mar 2008 14:09:30 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 2g2000hsn.googlegroups.com; posting-host=170.121.15.46;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15396

On Mar 23, 9:36=A0pm, "Tio Pedro" <radioconnect...@cox.net> wrote:
> "TimShoppa" <sho...@trailing-edge.com> wrote in message
>
> news:d5ce3035-b5a1-461e-989c-2076f2c0140d@u10g2000prn.googlegroups.com...
>
>
>
>
>
> > Looking at how I would configure a 7360-type mixer in the front end of
> > a low-band (say 80M and 40M) receiver.
>
> > Method A: To me, the most obvious way to do it is to feed the RF into
> > the 7360's grid, and feed the deflection plates with balanced local
> > oscillator input at circa 10 or 20 V P-P. Put a center-tapped
> > transformer to the anodes and pull the output out of a winding.
>
> > BUT... that's not what I see being done in the various app notes.
>
> > Method B: I see, for example, feeding RF into a single deflection
> > plate, and putting a pot for fine-tuning the balance on the other
> > plate. LO is injected into the 7360's grid. (e.g. page 6 of
> >http://www.ab4oj.com/1st/hb/7360/7360.pdf). I think the intention
> > here is not to saturate the deflector beam inputs into switching mode,
> > but to keep the amplitudes small where it'll be linear.
>
> > What's the advantages and gotchas of doing it each way? Method A takes
> > a lot of LO amplitude and has the highest gain for the RF. Method B
> > takes less LO amplitude but I think has lower gain. Method A cancels
> > out the LO, and Method B cancels out the original RF. Right?
>
> > Of course two 7360's would let me do a doubly-balanced mixer... can't
> > afford 7360's but I do have some 6AR8's!
>
> > Tim N3QE.
>
> Why not take a peek at the old Sanders articles that ran in the 1960s in
> QST? =A0Or, take a lot at the schematics for the Squires-Sanders RX on
> BAMA for some real world applications.

Indeed, the Squires-Sanders receivers show the 7360's being used
exactly like I would use them - feed RF into grid, local oscillator
fed in a balanced way into deflector beam plates, take output from
anodes through a balanced transformer.

But much of the other 50's/60's era notes show deflector beam tubes
being used in other mixer configs, e.g. LO on grid and RF into plates.
LO on grid might just be a derivation from the self-excited 7360
configs.

What year/month were the Sanders articles in QST? I have most of the late 50's and 60's on my shelves but haven't had a good excuse to look through them lately.

Tim.

From 3866296260552188226
X-Google-Thread: fc2a5,4a5a52db5cf44d04
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
news.acm.uiuc.edu!news.xcski.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 7360/6AR8 mixer configs
Date: 24 Mar 2008 15:53:44 GMT
Organization: The National Capital FreeNet
Lines: 23
Message-ID: <fs8iq8$7d9$1@theodyn.ncf.ca>
References: <d5ce3035-b5a1-461e-989c-2076f2c0140d@u10g2000prn.googlegroups.com>
<d6cfcba2-5d50-4c5c-a7df-4e92244f968e@2g2000hsn.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1206374024 7593 134.117.136.48 (24 Mar 2008 15:53:44 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 24 Mar 2008 15:53:44 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15397

Tim Shoppa (shoppa@trailing-edge.com) writes:

> What year/month were the Sanders articles in QST? I have most of the
> late 50's and 60's on my shelves but haven't had a good excuse to look
> through them lately.
>

It's 1963 for the article(s), I seem to recall there was a second article about the noiseblanker but I'm not sure. The QST review of the receiver wsa in '64 or maybe '65.

I know the years because I never had QST from 1963 for some reason, though I have '62 and '64, so I've never actually seen the Squires article.

I can pull a few books off the shelf from the prime hobby use of the 7360, and when I get around to it, I'll see if there is much variation in the use of the tube or not.

Of course, for a lot of the articles, there was a point of introduction and the others followed. So if there is a definite trend in one method, it might be just as simple as others using what was in the first article.

Michael VE2BVW

```
From 3210422336826194805
X-Google-Thread: fc2a5,4a5a52db5cf44d04
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!13g2000hsb.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 7360/6AR8 mixer configs
Date: Mon, 24 Mar 2008 10:27:37 -0700 (PDT)
Organization: http://groups.google.com
Lines: 34
Message-ID: <51505d5b-ef91-4530-9ede-d7e5d2c77a1d@13g2000hsb.googlegroups.com>
References: <d5ce3035-b5a1-461e-989c-2076f2c0140d@u10g2000prn.googlegroups.com>
     <d6cfcba2-5d50-4c5c-a7df-4e92244f968e@2g2000hsn.googlegroups.com>
     <fs8iq8$7d9$1@theodyn.ncf.ca>
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NNTP-Posting-Date: Mon, 24 Mar 2008 17:27:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15398
```

On Mar 24, 11:53=A0am, et...@FreeNet.Carleton.CA (Michael Black) wrote:

> TimShoppa(sho...@trailing-edge.com) writes:
> > What year/month were the Sanders articles in QST? I have most of the
> > late 50's and 60's on my shelves but haven't had a good excuse to look
> > through them lately.
>
> It's 1963 for the article(s), I seem to recall there was a second article
> about the noiseblanker but I'm not sure. =A0The QST review of the receiver=

> wsa in '64 or maybe '65.
>
> I know the years because I never had QST from 1963 for some reason, though=

> I have '62 and '64, so I've never actually seen the Squires article.
>
> I can pull a few books off the shelf from the prime hobby use of the 7360,=

> and when I get around to it, I'll see if there is much variation in the
> use of the tube or not.
>

> Of course, for a lot of the articles, there was a point of introduction
> and the others followed. =A0So if there is a definite trend in one method,=

> it might be just as simple as others using what was in the first article.

The 7360 is prominently featured in the 60's ARRL Handbooks, that's
for sure. There's one exciter that uses three of them!

I do recall a one or two-band receiver in a 60's handbook that uses a
7360 in the front end. In fact, the more I think about that, the more
I realize that this is the receiver I was thinking of building :-).
Gotta go find it!

Tim N3QE

From -6250293814413006607
X-Google-Thread: fc2a5,eab57e3edd0d857b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e10g2000prf.googlegroups.com!not-for-mail
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Really tiny soldering iron??
Date: Mon, 24 Mar 2008 10:48:19 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <b0f650c5-41e0-4ad1-a314-e3e38c95e33c@e10g2000prf.googlegroups.com>
References: <A86dnbzxCr7ScHvanZ2dneKdnZydnZ2d@bt.com>
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X-Complaints-To: groups-abuse@google.com
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Complaints-To: groups-abuse@google.com
Injection-Info: e10g2000prf.googlegroups.com; posting-host=72.0.177.83;
posting-account=LQVNZAkAAAAHQ9vQRrCB-Qc9fLbREhw4
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Gecko/20080201 Firefox/2.0.0.12,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15399

On Mar 23, 4:52 pm, "ferrymanr" <richardferry...@btinternet.com>
wrote:
> I wonder if anyone knows of a really small soldering iron (half the diameter
> of the Antex 12W iron). I have one I purchased in USA about 20 years ago
> and the element has now failed. As the manufacturers name has worn off the
> handle I am at a loss as to where to get a replacement. A search of the web
> has proved fruitless. It is the only iron I have had that can fit between
> other components or in very confined spaces when replacing SMD resistors

> etc.
>
> Original iron:-
> Overall length handle and bit 145mm (5 1/2")
> Handle diameter 9mm
> Shaft (element) diameter 1.6mm
> Bit maximum diameter 3mm
> Bit tip approximately 0.5mm - may be less.
> Supply 12V
>
> Dick G4BBH

A Google search turns up lots of hits on "antex solder".

Paul, KD7HB

From 7024094579452575752
X-Google-Thread: fc2a5,f874e2070b03d9da
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
news.cv.net!not-for-mail
From: "Rick" <ricknj10@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <dk81r35j0230klugrkldde6m1idc557ogs@4ax.com>
<fc70d465-3500-4891-9fc1-699f06784d1a@e39g2000hsf.googlegroups.com>
Subject: Re: Need Article from July 1986 QST P 45
Date: Mon, 24 Mar 2008 15:41:14 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 7
Message-ID: <47e803f0$0$15174$607ed4bc@cv.net>
Organization: Optimum Online
NNTP-Posting-Host: 67.82.179.222
X-Complaints-To: abuse@cv.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15400

I cant find your email adr in the posting so I emailed you at your qrz.com address.
I can give you the info you need.

Rick K2XT

From -1034115738714375909
X-Google-Thread: fc2a5,eab57e3edd0d857b

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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.bt.com!news.bt.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 24 Mar 2008 15:54:49 -0500
From: "ferrymanr" <richardferryman@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
References: <A86dnbzxCr7ScHvanZ2dneKdnZydnZ2d@bt.com> <b0f650c5-41e0-4ad1-a314-
e3e38c95e33c@e10g2000prf.googlegroups.com>
In-Reply-To: <b0f650c5-41e0-4ad1-a314-e3e38c95e33c@e10g2000prf.googlegroups.com>
Subject: Re: Really tiny soldering iron??
Date: Mon, 24 Mar 2008 20:54:43 -0000
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     charset="iso-8859-1";
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6001.18000
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6001.18000
Message-ID: <CIOdnZFA9bGEiHXaRVnyiQA@bt.com>
Lines: 36
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NNTP-Posting-Host: 86.144.97.52
X-AuthenticatedUsername: NoAuthUser
X-Trace: sv3-9x0Bs2jbxClc5KKRBlQPrCLBjcLVclyZuP5p+0R/
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KCq6bNW8E2A1W3uNfqRHJGtIoaqtnkyQ==
X-Complaints-To: abuse@btinternet.com
X-DMCA-Complaints-To: abuse@btinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15401


"pdrahn@coinet.com" <co_farmer@yahoo.com> wrote in message
news:b0f650c5-41e0-4ad1-a314-e3e38c95e33c@e10g2000prf.googlegroups.com...
> On Mar 23, 4:52 pm, "ferrymanr" <richardferry...@btinternet.com>
> wrote:
>> I wonder if anyone knows of a really small soldering iron (half the
>> diameter
>> of the Antex 12W iron).  I have one I purchased in USA about 20 years ago
>> and the element has now failed.  As the manufacturers name has worn off
>> the
>> handle I am at a loss as to where to get a replacement.  A search of the
>> web
>> has proved fruitless.  It is the only iron I have had that can fit
>> between
```

>> other components or in very confined spaces when replacing SMD resistors
>> etc.
>>
>> Original iron:-
>> Overall length handle and bit 145mm (5 1/2")
>> Handle diameter 9mm
>> Shaft (element) diameter 1.6mm
>> Bit maximum diameter 3mm
>> Bit tip approximately 0.5mm - may be less.
>> Supply 12V
>>
>> Dick G4BBH
>
> A Google search turns up lots of hits on "antex solder".
>
> Paul, KD7HB

Problem is the smallest Antex is TOO BIG. My litlle iron is less than 50%
of the size!

Dick

```
From 1879256267702679732
X-Google-Thread: fc2a5,eab57e3edd0d857b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!
not-for-mail
NNTP-Posting-Date: Mon, 24 Mar 2008 17:48:42 -0500
Newsgroups: rec.radio.amateur.homebrew
From: gwhite@alum.mit.edu (Doug White)
Subject: Re: Really tiny soldering iron??
References: <A86dnbzxCr7ScHvanZ2dneKdnZydnZ2d@bt.com>
X-Newsreader: News Xpress 2.01
Date: Mon, 24 Mar 2008 23:48:43 GMT
Message-ID: <c6qdnflb4o5XsnXanZ2dnUVZ_hGdnZ2d@rcn.net>
Lines: 27
X-Usenet-Provider: http://www.giganews.com
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MgSDrxlKvbFBPSkFHnMGBGIPhK+90UUOJz7stmQL2KsCHDoeWQ/yo!Htg=
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15402
```

Keywords:
In article <A86dnbzxCr7ScHvanZ2dneKdnZydnZ2d@bt.com>, "ferrymanr"
<richardferryman@btinternet.com> wrote:
>I wonder if anyone knows of a really small soldering iron (half the diameter
>of the Antex 12W iron). I have one I purchased in USA about 20 years ago
>and the element has now failed. As the manufacturers name has worn off the
>handle I am at a loss as to where to get a replacement. A search of the web
>has proved fruitless. It is the only iron I have had that can fit between
>other components or in very confined spaces when replacing SMD resistors
>etc.
>
>Original iron:-
>Overall length handle and bit 145mm (5 1/2")
>Handle diameter 9mm
>Shaft (element) diameter 1.6mm
>Bit maximum diameter 3mm
>Bit tip approximately 0.5mm - may be less.
>Supply 12V

Can't help you with the mystery iron, but I can tell you a trick I've
used successfully. Take a piece of copper buss wire (~ #22) and wrap it
around the tip of the Antex iron several times with a short bit sticking
out. For small surface mount parts (not connected to a ground plane),
you don't really need much heat. This tip extender trick has allowed me
to solder 0201 surface mount parts in some tight spots. You can file the
point into any shape you like.

Doug White

From -2566556093254847419
X-Google-Thread: fc2a5,eab57e3edd0d857b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!cycny01.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc05.POSTED!291cd109!not-for-mail
From: Al <no.spam@wanted.com>
Subject: Re: Really tiny soldering iron??
Newsgroups: rec.radio.amateur.homebrew
References: <A86dnbzxCr7ScHvanZ2dneKdnZydnZ2d@bt.com>
User-Agent: Pan/0.129 (Benson & Hedges Moscow Gold)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 26
Message-ID: <4PYFj.1103$N_5.136@trnddc05>
Date: Tue, 25 Mar 2008 01:45:36 GMT
NNTP-Posting-Host: 68.239.60.64
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc05 1206409536 68.239.60.64 (Mon, 24 Mar 2008 21:45:36 EDT)
NNTP-Posting-Date: Mon, 24 Mar 2008 21:45:36 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15403

On Sun, 23 Mar 2008 23:52:45 +0000, ferrymanr wrote:

> I wonder if anyone knows of a really small soldering iron (half the
> diameter of the Antex 12W iron). I have one I purchased in USA about 20
> years ago and the element has now failed. As the manufacturers name has
> worn off the handle I am at a loss as to where to get a replacement. A
> search of the web has proved fruitless. It is the only iron I have had
> that can fit between other components or in very confined spaces when
> replacing SMD resistors etc.
>
> Original iron:-
> Overall length handle and bit 145mm (5 1/2") Handle diameter 9mm
> Shaft (element) diameter 1.6mm
> Bit maximum diameter 3mm
> Bit tip approximately 0.5mm - may be less. Supply 12V
>
> Dick G4BBH

Is it an ORYX micro-miniture low voltage soldering instrument, Model 6A
that you are looking for?

It's made by W. Greenwood Electronic Limited of Chesham, England.

And I don't think it exists anymore.

Al

From -8748027907483378058
X-Google-Thread: fc2a5,4a5a52db5cf44d04
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 7360/6AR8 mixer configs
Date: Tue, 25 Mar 2008 01:41:14 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 90
Sender: et472@217-215-235-64-ppp.3menatwork.com
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References: <d5ce3035-b5a1-461e-989c-2076f2c0140d@u10g2000prn.googlegroups.com>
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Content-ID: <Pine.LNX.4.64.0803250053031.13435@darkstar.example.org>
Xref: g2news1.google.com rec.radio.amateur.homebrew:15404

On Mon, 24 Mar 2008, Tim Shoppa wrote:

> I do recall a one or two-band receiver in a 60's handbook that uses a
> 7360 in the front end. In fact, the more I think about that, the more
> I realize that this is the receiver I was thinking of building :-).
> Gotta go find it!
>

The timeline may give some clues. I've just dug out some books, which are easier to get ahold of than my old magazines, but some of this might be useful.

The earliest references were using the 7360 as a balanced modulator and product detector.

The CQ SSB Handbook from 1958 has a couple of beam deflection tube modulators, though they are 6AR8s. Audio to the deflection plates, and RF to the grid in both instances.

QST for March 1960 has "SSB Circuits Using the 7360 Beam-deflection Tube", and it's about balanced modulators, again audio to the deflection plates. A couple of mixers to get up to frequency, and the local oscillator goes to the cathode or grid, and the IF signal to the deflection plates.

A December 1960 article shows the 7360 as a product detector, BFO to the grid and IF to the deflection plates.

Those two QST articles above are in the 1965 ARRL SSB manual, and all the balanced modulators in the rest of the book show audio to the deflection plate(s) and oscillator to the grid (or self excited).

In the August 1961 issue of QST, there's an SSB phasing adaptor for receivers, again the BFO goes to the grid and the IF to the deflection plates.

I see no beam deflection tubes mentioned in the 1954 edition of the ARRL SSB manual, but that's rather expected.

The 1978 edition of "Technical Topics" from the RSGB says the 7360 was introduced in 1960. It has the Squires circuit (but doesn't mention the month of the QST article), and that puts the IF on the grid and the oscillator on the deflection plates. And it does use a balanced circuit on the deflection plates.

QST for May 1965 has the "Miser's Dream" that was a pretty advanced receiver for the time, including a 7360 mixer and an HF IF filter (though a second conversion to 455KHz for specific design reasons). I've always considered that the vector for the 7360 in hobby receiver mixers, though if I dug out the article, I'm sure it explicitly referenced the Squires article. One feature of the receiver is a q-multiplier at the signal frequency, to improve front end selectivity given there was no RF amplifier. I've always wondered how necessary that q-multiplier was, given later receivers with high IFs got by fine with limited front end selectivity (I always wondered if the notion of no RF amplifier was so radical that they felt a need for the q-multiplier). For the rest of the decade, various construction articles would use the same basic scheme, a 7360 mixer with a q-multiplier at the signal frequency.

I suspect this is the one you may be thinking of.

That receiver feeds the signal into the grid, and the oscillator goes to the deflection plate (just one), and the blurb (it's not clear if it's Pat Hawker's interpretation or right from the article), that it's simpler but warns it might be slightly more prone to cross-modulation.

A couple of receivers in the 1982 RSGB Handbook have 7360 mixers, and signal to the grid, oscillator to the plates (and one or both of them were balanced).

There was an article by Ray Moore (who I think worked for National) in the February 1973 issue of Ham Radio about designing receivers for strong signal handling, and it covers a lot of mixers, including the 7360. Either he shows a third topology, or he defines the 7360 in terms of a switching mixer. I may find that article, I saw the issue just last week somewhere.

There was a tube receiver in QST about February of 1973 (or was it '72?), that had to be one of the last described there. It went for super strong signal handling, including a 7360 mixer and some sort of power tube as the RF stage.

Michael VE2BVW

From -4793067118214259091
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NNTP-Posting-Date: Tue, 25 Mar 2008 00:58:30 -0500
From: No Spam <no@spam.com>
Subject: Re: Really tiny soldering iron??
Newsgroups: rec.radio.amateur.homebrew

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F4Q9SFHBDvpftjzAwXZxQ3QE+1I=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15405

On Tue, 25 Mar 2008 01:45:36 +0000, Al wrote:

> On Sun, 23 Mar 2008 23:52:45 +0000, ferrymanr wrote:
>
>> I wonder if anyone knows of a really small soldering iron (half the
>> diameter of the Antex 12W iron).  I have one I purchased in USA about
>> 20 years ago and the element has now failed.  As the manufacturers name
>> has worn off the handle I am at a loss as to where to get a
>> replacement.  A search of the web has proved fruitless.  It is the only
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>>
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>> Overall length handle and bit 145mm (5 1/2") Handle diameter 9mm Shaft
>> (element) diameter 1.6mm
>> Bit maximum diameter 3mm
>> Bit tip approximately 0.5mm - may be less. Supply 12V
>>
>> Dick G4BBH
>
> Is it an ORYX micro-miniture low voltage soldering instrument, Model 6A
> that you are looking for?
>
> It's made by W. Greenwood Electronic Limited of Chesham, England.
>
> And I don't think it exists anymore.

ARG!!!!  That was my favorite iron!  I still have it except I can't find
any tips! Whaaa!   I want my small iron again!    ;-)
```

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From -7742871482547950885
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X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr14.news.prodigy.net.POSTED!2eb4dde1!not-for-mail
Reply-To: "Sbc News" <Andy@Hardy.com>
From: "Sbc News" <Andy@Hardy.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: MC1350 - Low noise replacement?
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
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2008 11:13:00 EDT)
NNTP-Posting-Date: Tue, 25 Mar 2008 11:13:00 EDT
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Date: Tue, 25 Mar 2008 15:13:00 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15406
```

Hello,

I'm looking for an IF amp (w/agc and 50db max gain is ample) to use as a replacement for an MC1350. Main reason is noise reduction. Doesn't necessarily need be in 8-pin dip package, however, not enough room for an entirely built-up amp.

Suggestions appreciated.

Thanks,
Emil

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X-Google-Attributes: gidfc2a5,public,usenet
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mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <A86dnbzxCr7ScHvanZ2dneKdnZydnZ2d@bt.com><4PYFj.1103$N_5.136@trnddc05>
<Kv-dnf_iX7QbCXXanZ2dnUVZ_s_inZ2d@comcast.com>
Subject: Re: Really tiny soldering iron??
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
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Organization: AT&T ASP.att.net
Date: Tue, 25 Mar 2008 15:50:53 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15407


>> It's made by W. Greenwood Electronic Limited of Chesham, England.
>>
>> And I don't think it exists anymore.
>
> ARG!!!!  That was my favorite iron!  I still have it except I can't find
> any tips! Whaaa!   I want my small iron again!    ;-)

You can still buy tips, Google Oryx.

W4ZCB
>
>




From -246974541766508754
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news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 25 Mar 2008 19:24:18 -0500
From: No Spam <no@spam.com>
Subject: Re: Really tiny soldering iron??
Newsgroups: rec.radio.amateur.homebrew
References: <A86dnbzxCr7ScHvanZ2dneKdnZydnZ2d@bt.com>
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15408

On Tue, 25 Mar 2008 15:50:53 +0000, Harold E. Johnson wrote:

> Oryx

I wish you to know....  I've spent hours previously looking for these
tips using google and I could not find anything. But today, using
"Oryx tips", I found exactly what I need! Unreal!

Several packs are now on order!

Thanks Harold!


From -3847027951040613348
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i7g2000prf.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MC1350 - Low noise replacement?
Date: Tue, 25 Mar 2008 23:15:39 -0700 (PDT)
Organization: http://groups.google.com
Lines: 28
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References: <0E8Gj.36067$J41.26236@newssvr14.news.prodigy.net>
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Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
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NNTP-Posting-Date: Wed, 26 Mar 2008 06:15:40 +0000 (UTC)
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User-Agent: G2/1.0
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Gecko/20080311 Firefox/2.0.0.13,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15409

On Mar 25, 8:13 am, "Sbc News" <A...@Hardy.com> wrote:
> Hello,
>
> I'm looking for an IF amp (w/agc and 50db max gain is ample) to use as a
> replacement for an MC1350. Main reason is noise reduction. Doesn't
> necessarily need be in 8-pin dip package, however, not enough room for an
> entirely built-up amp.
>
> Suggestions appreciated.
>
> Thanks,
> Emil

You didn't mention what IF frequency...

I believe you'll find some nice VGAs (variable gain amplifiers) at Analog Devices and probably at Linear Technology. TI is another good bet. Some are digitally controlled, but I'm pretty sure I've seen analog-controlled ones too. I've personally been using Linear Technology's LTC6400-20. It's a fixed 20dB gain part with reasonably good noise figure and low distortion, useful to a couple hundred MHz. It's a tad power-hungry (the price you pay for low distortion) and in a package you may find hard to deal with. But it's been one of the easiest op amp based amplifiers in this class I've found to keep stable.

Cheers,
Tom

From 6153730406009081144
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From: "dreamcashpoint@yahoo.co.in" <dreamcashpoint@yahoo.co.in>
Newsgroups: rec.radio.amateur.homebrew
Subject: FREE HOME BUSINESS NEW OFFER 100%.
Date: Wed, 26 Mar 2008 04:16:47 -0700 (PDT)

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Lines: 4
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Xref: g2news1.google.com rec.radio.amateur.homebrew:15410

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From -8061585072966459397
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From: "dreamcashpoint@yahoo.co.in" <dreamcashpoint@yahoo.co.in>
Newsgroups: rec.radio.amateur.homebrew
Subject: HOME BASED ONLINE FREE BUSINESS
Date: Wed, 26 Mar 2008 04:16:58 -0700 (PDT)
Organization: http://groups.google.com
Lines: 4
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Xref: g2news1.google.com rec.radio.amateur.homebrew:15411

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```
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X-Google-Thread: fc2a5,4a5a52db5cf44d04
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X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!n75g2000hsh.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 7360/6AR8 mixer configs
Date: Wed, 26 Mar 2008 05:36:28 -0700 (PDT)
Organization: http://groups.google.com
Lines: 102
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15412

On Mar 25, 1:41=A0am, Michael Black <et...@ncf.ca> wrote:
> On Mon, 24 Mar 2008, TimShoppawrote:
> > I do recall a one or two-band receiver in a 60'shandbookthat uses a
> > 7360 in the front end. In fact, the more I think about that, the more
> > I realize that this is the receiver I was thinking of building :-).
> > Gotta go find it!
>
> The timeline may give some clues. =A0I've just dug out some books, which
> are easier to get ahold of than my old magazines, but some of this
> might be useful.
>
> The earliest references were using the 7360 as a balanced modulator
> and product detector.
>
> The CQ SSBHandbookfrom 1958 has a couple of beam deflection tube
```

> modulators, though they are 6AR8s. =A0Audio to the deflection plates,
> and RF to the grid in both instances.
>
> QST for March 1960 has "SSB Circuits Using the 7360 Beam-deflection
> Tube", and it's about balanced modulators, again audio to the deflection
> plates. =A0A couple of mixers to get up to frequency, and the local
> oscillator goes to the cathode or grid, and the IF signal to the
> deflection plates.
>
> A December 1960 article shows the 7360 as a product detector, BFO
> to the grid and IF to the deflection plates.
>
> Those two QST articles above are in the 1965 ARRL SSB manual, and
> all the balanced modulators in the rest of the book show audio to
> the deflection plate(s) and oscillator to the grid (or self
> excited).
>
> In the August 1961 issue of QST, there's an SSB phasing adaptor
> for receivers, again the BFO goes to the grid and the IF to the
> deflection plates.
>
> I see no beam deflection tubes mentioned in the 1954 edition of
> the ARRL SSB manual, but that's rather expected.
>
> The 1978 edition of "Technical Topics" from the RSGB says the 7360
> was introduced in 1960. =A0It has the Squires circuit (but doesn't mention=

> the month of the QST article), and that puts the IF on the grid
> and the oscillator on the deflection plates. =A0And it does use
> a balanced circuit on the deflection plates.
>
> QST for May 1965 has the "Miser's Dream" that was a pretty advanced
> receiver for the time, including a 7360 mixer and an HF IF filter (though
> a second conversion to 455KHz for specific design reasons). =A0I've
> always considered that the vector for the 7360 in hobby receiver
> mixers, though if I dug out the article, I'm sure it explicitly
> referenced the Squires article. =A0One feature of the receiver is
> a q-multiplier at the signal frequency, to improve front end
> selectivity given there was no RF amplifier. =A0I've always wondered
> how necessary that q-multiplier was, given later receivers with
> high IFs got by fine with limited front end selectivity (I always
> wondered if the notion of no RF amplifier was so radical that
> they felt a need for the q-multiplier). =A0For the rest of the
> decade, various construction articles would use the same basic
> scheme, a 7360 mixer with a q-multiplier at the signal frequency.
>
> I suspect this is the one you may be thinking of.
>
> That receiver feeds the signal into the grid, and the oscillator
> goes to the deflection plate (just one), and the blurb (it's
> not clear if it's Pat Hawker's interpretation or right from
> the article), that it's simpler but warns it might be slightly
> more prone to cross-modulation.

>
> A couple of receivers in the 1982 RSGBHandbookhave 7360 mixers,
> and signal to the grid, oscillator to the plates (and one or both
> of them were balanced).
>
> There was an article by Ray Moore (who I think worked for National)
> in the February 1973 issue of Ham Radio about designing receivers
> for strong signal handling, and it covers a lot of mixers, including
> the 7360. =A0Either he shows a third topology, or he defines the
> 7360 in terms of a switching mixer. =A0I may find that article, I
> saw the issue just last week somewhere.
>
> There was a tube receiver in QST about February of 1973 (or was
> it '72?), that had to be one of the last described there. =A0It went
> for super strong signal handling, including a 7360 mixer and some
> sort of power tube as the RF stage.
>
> =A0 =A0Michael =A0VE2BVW

Wow, Michael, that's an incredible survey of the literature! I now
have in front of me the 65 Handbook and the Miser's Dream is indeed
what I was thinking about building. If, for no other reason, than
because they put the oscillator on the deflector plates and the RF to
the grid!

The 7360 tutorials in the 65 SSB book show everything but RF to the
grid and oscillator to deflector plate :-). I think in part because
they thought of it as a product detector, not a front end mixer.

Interesting that the first mention you find is the 6AR8. I always
thought the 7360 came first - but maybe the 6AR8 was more available.
At least one of the rigs in the 65 SSB book uses a 6AR8 too.

Tim.

```
From -1302570672898195626
X-Google-Thread: fc2a5,cd494230a81db50d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr27.news.prodigy.net.POSTED!2eb4dde1!not-for-mail
Reply-To: "Sbc News" <Andy@Hardy.com>
From: "Sbc News" <Andy@Hardy.com>
Newsgroups: rec.radio.amateur.homebrew
References: <0E8Gj.36067$J41.26236@newssvr14.news.prodigy.net> <4e44faaa-
a3d3-4af8-88de-60513233d44e@i7g2000prf.googlegroups.com>
Subject: Re: MC1350 - Low noise replacement?
Lines: 38
X-Priority: 3
X-MSMail-Priority: Normal
```

X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <uvsGj.329$Nc5.183@newssvr27.news.prodigy.net>
NNTP-Posting-Host: 69.11.245.137
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr27.news.prodigy.net 1206539354 ST000 69.11.245.137 (Wed, 26 Mar 2008 09:49:14 EDT)
NNTP-Posting-Date: Wed, 26 Mar 2008 09:49:14 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
[[PAPDCA[S@YBWTX\JMBNFXBWR\HPCTL@XT^OBPLAH[\RYIBK^RAQFW[ML\THRCKV^GGZKJMGV^^_JSCFFUA_QXFGVSCYRPILH]TRVKC^LSN@DX_HCAFX__@J\DAJBVMY\ZWZCZLPA^MVH_P@\
\EOMW\YSXHG__IJQY_@M[A[[AXQ_XDSTAR]\PG]NVAQUVM
Date: Wed, 26 Mar 2008 13:49:14 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15413

Tom,
Thanks for the help. I'll check out your suggestions. The IF freq in my application is ~5mhz.
Emil

"K7ITM" <k7itm@msn.com> wrote in message
news:4e44faaa-a3d3-4af8-88de-60513233d44e@i7g2000prf.googlegroups.com...
> On Mar 25, 8:13 am, "Sbc News" <A...@Hardy.com> wrote:
>> Hello,
>>
>> I'm looking for an IF amp (w/agc and 50db max gain is ample) to use as a
>> replacement for an MC1350. Main reason is noise reduction. Doesn't
>> necessarily need be in 8-pin dip package, however, not enough room for an
>> entirely built-up amp.
>>
>> Suggestions appreciated.
>>
>> Thanks,
>> Emil
>
> You didn't mention what IF frequency...
>
> I believe you'll find some nice VGAs (variable gain amplifiers) at
> Analog Devices and probably at Linear Technology. TI is another good
> bet. Some are digitally controlled, but I'm pretty sure I've seen
> analog-controlled ones too. I've personally been using Linear
> Technology's LTC6400-20. It's a fixed 20dB gain part with reasonably
> good noise figure and low distortion, useful to a couple hundred MHz.
> It's a tad power-hungry (the price you pay for low distortion) and in
> a package you may find hard to deal with. But it's been one of the
> easiest op amp based amplifiers in this class I've found to keep
> stable.
>
> Cheers,
> Tom

From -1631043302939325805
X-Google-Thread: fc2a5,f874e2070b03d9da
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!not-for-mail
From: Jim <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need Article from July 1986 QST P 45
Date: Wed, 26 Mar 2008 11:38:22 -0500
Message-ID: <5ruku3hfo49a73js7de04jkdvictu7rruf@4ax.com>
References: <dk81r35j0230klugrkldde6m1idc557ogs@4ax.com>
<fc70d465-3500-4891-9fc1-699f06784d1a@e39g2000hsf.googlegroups.com>
<47e803f0$0$15174$607ed4bc@cv.net>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 23
Organization: Newshosting.com - Highest quality at a great price! www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15414

Someone mailed the information, and yes, I found that
the information is available from Hy Gain (now MFJ).
It was article on how to use HY-Tower on 30 M. Well,
I just make a remote tuning network for it that allows it
to work ALL the HF bands from 160 to 10m, controlled
from the operating position, works great.

Thanks to everyone for their help.

On Mon, 24 Mar 2008 15:41:14 -0400, "Rick" <ricknj10@hotmail.com> wrote:

>I cant find your email adr in the posting so I emailed you at your qrz.com
>address.
>I can give you the info you need.
>
>Rick K2XT
>

```
From 4716841527732138953
X-Google-Thread: 1109af,754582d6add34f17
X-Google-Thread: 1131b0,754582d6add34f17
X-Google-Thread: 115730,754582d6add34f17
X-Google-Thread: 108122,754582d6add34f17
X-Google-Thread: fc2a5,754582d6add34f17
X-Google-Attributes:
gid1109af,gid1131b0,gid115730,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 26 Mar 2008 17:12:11 -0500
From: "CP" <someone@nospam.com>
Newsgroups:
rec.radio.swap,sci.electronics.repair,sci.electronics.equipment,rec.radio.amateur.
equipment,rec.radio.amateur.homebrew
References: <43910B3C.4000905@worldnet.att.net>
Subject: Re: HP Function Generators: (2) HP 3310A  (1) HP 3311A
Date: Wed, 26 Mar 2008 18:12:04 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <z4qdnU-hvI-mV3fanZ2dnUVZ_sGvnZ2d@comcast.com>
Lines: 40
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.245.108.41
X-Trace: sv3-i3bsKBLewW3cwvdlk6V0WP4XCclcreAN6Rchq/
Vb7y16gdlQBTHRpcsgZNGepy4yVnsOV8hqn6aGOl9!
UXKaDO6kcF359Vvj5mGOHTlq9aYDixqx2hM9aTYLx/yLH6Xj6NslARj5eUGAUCCcsJyfALLA7zm2!
IsR55OKeoSP4OV/kSqIbBhySQ4v5ig==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.swap:18739 sci.electronics.repair:90757
sci.electronics.equipment:10602 rec.radio.amateur.equipment:14163
rec.radio.amateur.homebrew:15415
```

Your links don't work.

"Al Schapira" <a.d.schapira@worldnet.att.net> wrote in message
news:43910B3C.4000905@worldnet.att.net...

> The following equipment is offered for sale. Each is used, but
> in working condition, with a complete *original* operating and
> service manual and power cord. Shipping to a US address is
> *included*.

```
>
> Thanks for looking.
>
> -Al Schapira, KC2HRH, a.d.schapira@worldnet.att.net
> ============================================================
>
> HP 3310A Function Generator #1 (S/N #1151A08983)
> Sine/square/triangle/ramp/pulse 0.0005 Hz to 5 Mhz, and external
> VCO input. Working perfectly. Minor nicks and scrapes on the top
> of the case from being stacked. About 7 lbs.  $75.00.
> See
>   http://home.att.net/~a.schapira/pix/HP/HP-3310A_1.jpg
>   http://home.att.net/~a.schapira/pix/HP/HP-3310A_manual.jpg
>
> HP 3310A Function Generator #2 (S/N # 1151A08978)
> Sine/square/triangle/ramp/pulse 0.0005 Hz to 5 Mhz, and external
> VCO input. Working perfectly. Minor nicks and scrapes on the top
> of the case from being stacked.  Pilot lamp assembly has been
> replaced with round red led. About 7 lbs. $65.00.
> See
>   http://home.att.net/~a.schapira/pix/HP/HP-3310A_2.jpg
>   http://home.att.net/~a.schapira/pix/HP/HP-3310A_manual.jpg
>
> HP 3311A Function Generator (S/N #1244A29453)
> Sine/square/triangle to 0.1 Hz to 1 Mhz, and external VCO input.
> Working perfectly. About 4 lbs, $75.00.
> See
>   http://home.att.net/~a.schapira/pix/HP/HP-3311A.jpg
>   http://home.att.net/~a.schapira/pix/HP/HP-3311A_manual.jpg




From -3455929765957232928
X-Google-Thread: 1109af,754582d6add34f17
X-Google-Thread: 1131b0,754582d6add34f17
X-Google-Thread: 115730,754582d6add34f17
X-Google-Thread: 108122,754582d6add34f17
X-Google-Thread: fc2a5,754582d6add34f17
X-Google-Attributes:
gid1109af,gid1131b0,gid115730,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-
sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Newsgroups:
rec.radio.swap,sci.electronics.repair,sci.electronics.equipment,rec.radio.amateur.
equipment,rec.radio.amateur.homebrew
Subject: Re: HP Function Generators: (2) HP 3310A  (1) HP 3311A
Date: Wed, 26 Mar 2008 18:22:30 -0400
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13ulj5576787lc2@corp.supernews.com>
X-Mailer: Mozilla 4.76 [en]C-CCK-MCD   (Windows NT 5.0; U)
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X-Accept-Language: en
MIME-Version: 1.0
References: <43910B3C.4000905@worldnet.att.net> <z4qdnU-hvI-mV3fanZ2dnUVZ_sGvnZ2d@comcast.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-NewsProxy: 1.2.4
X-Complaints-To: abuse@supernews.com
Lines: 14
Xref: g2news1.google.com rec.radio.swap:18740 sci.electronics.repair:90759 sci.electronics.equipment:10603 rec.radio.amateur.equipment:14164 rec.radio.amateur.homebrew:15416

CP wrote:
>
> Your links don't work.

You are replying to spam that is over two years old.

--
aioe.org is home to cowards and terrorists

Add this line to your news proxy nfilter.dat file
* drop Path:*aioe.org!not-for-mail to drop all aioe.org traffic.

http://improve-usenet.org/index.html

From 8555575550554134591
X-Google-Thread: fc2a5,cd494230a81db50d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: MC1350 - Low noise replacement?
Date: Thu, 27 Mar 2008 02:14:15 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.03.27.09.14.15.885694@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <0E8Gj.36067$J41.26236@newssvr14.news.prodigy.net> <4e44faaa-a3d3-4af8-88de-60513233d44e@i7g2000prf.googlegroups.com> <uvsGj.329$Nc5.183@newssvr27.news.prodigy.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 15
Organization: Octanews
NNTP-Posting-Date: 27 Mar 2008 04:14:17 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15417

On Wed, 26 Mar 2008 13:49:14 +0000, Sbc News wrote:

> The IF freq in my application is ~5mhz.

<snip>

Hi,

5MHz? There's opamps that can do 50dB at that frequency. Just another
option for you :-)

Cheers,
--
Gregg

From -9154160463947224582
X-Google-Thread: fc8b1,8341521e01935dd7
X-Google-Thread: 10c2ee,8341521e01935dd7
X-Google-Thread: fc2a5,8341521e01935dd7
X-Google-Thread: 112d1e,8341521e01935dd7
X-Google-Attributes: gidfc8b1,gid10c2ee,gidfc2a5,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out04a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!news-out.readnews.com!
postnews3.readnews.com!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.antiques.radio+phono,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Re: Sylvania R1131C octal tube ?
From: hexter@blazenet.net (gudmundur)
Reply-To: retxeh@blazenet.net
Organization: Disconnect the dots
X-Newsreader: WinVN 0.99.6
References: <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>
<47e47a97$0$11007$470ef3ce@news.pa.net> <13udqvdloks0v68@corp.supernews.com>
MIME-Version: 1.0
Content-Type: Text/Plain; charset=US-ASCII
Date: 28 Mar 2008 02:46:43 GMT
Lines: 55
Message-ID: <47ec5c12$0$17438$470ef3ce@news.pa.net>
NNTP-Posting-Host: a78c93ad.news.pa.net
X-Trace: DXC=45[NeomW6WeZ=N]>\A8jdh9B5=CnbAAlj7@OV063Z^nmG^X3MV6eAVfDY3hdgo<I_n
X-Complaints-To: abuse@pa.net
Xref: g2news1.google.com rec.radio.amateur.boatanchors:14397
rec.antiques.radio+phono:95600 rec.radio.amateur.homebrew:15418
sci.electronics.design:329688

In article <13udqvdloks0v68@corp.supernews.com>, dickburk@ix.netcom.com says...
>
>

>"gudmundur" <hexter@blazenet.net> wrote in message
>news:47e47a97$0$11007$470ef3ce@news.pa.net...
>> In article
>> <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>,
>> kolesnik@nojunksbcglobal.net says...
>>>
>>>I got a couple of the subject tubes which are supposed to
>>>be "glow
>>>modulator tubes". Best I can determine is that the light
>>>output will
>>>vary with current but I can't find data sheet googling.
>>>If anyone has
>>>pinout and/or data I'd sure like to see it. I think it
>>>might be a mid
>>>1960s item as my 1957 Sylvania manual doesn't show it.
>>>thanks
>>>
>>>--
>>>
>>>73
>>>Hank WD5JFR
>>
>> Everyone replies, and yet you get no answers,
>>
>> R-1131C,D
>> Max dcv 150
>> ma. 3-25
>> peak ma. 55
>> starting voltage 225
>> crater dia. .093
>> candelpower .2@25 ma.
>> light color white
>>
>   What is the pin arrangement?
>

This Sylvania industrial tube catalog has ratings only, and
sadly no pinouts. It does say the light beam can be modulated
up to 1 mhz. Pretty good bandwidth for old technology.

>
>--
>---
>Richard Knoppow
>Los Angeles, CA, USA
>dickburk@ix.netcom.com
>
>

From -8197194445572940104
X-Google-Thread: fc2a5,f874e2070b03d9da
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr12.news.prodigy.net.POSTED!60181760!not-for-mail
From: "George Csahanin" <george@dyb.com>
Newsgroups: rec.radio.amateur.homebrew
References: <dk81r35j0230klugrkldde6m1idc557ogs@4ax.com>
Subject: Re: Need Article from July 1986 QST P 45
Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2530
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2530
X-RFC2646: Format=Flowed; Original
Message-ID: <VteHj.16869$5K1.3868@newssvr12.news.prodigy.net>
NNTP-Posting-Host: 65.68.232.25
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr12.news.prodigy.net 1206744053 ST000 65.68.232.25 (Fri, 28 Mar
2008 18:40:53 EDT)
NNTP-Posting-Date: Fri, 28 Mar 2008 18:40:53 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
TSU[@SZGWRB[RZ@YN[OJNW@@YJ_ZTB\MV@BJ]Q]KEYUNDQUCCNSUAACY@L[ZX__HGFD]JBJNSFXTOOGA_V
WY^_HG@FW_HUTHOH]TBPGCO\P^PLP^@[GLHUK@WLECKFVL^TYG[@RMWQXIWM[SDDYWNLG_G[_BWUCHFY_Y
@AS@Q[B\APPF@DCZM_PG_VSCPQZM
Date: Fri, 28 Mar 2008 22:40:53 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15419

Its on BAMA

-G
"WA5DXP" <nospam@nospam.com> wrote in message
news:dk81r35j0230klugrkldde6m1idc557ogs@4ax.com...
> Anyone have the above QST that can possibly scan an article
> E-mail it to me or give me some dimensions from the article?
>
> "Adapting Hy Tower for use on 30 M"
>
>
> Thanks,
>
> Jim, WA5DXP
> wa5dxp@gmail.com
>
>
>
>
>

```
From 2977849307455253573
X-Google-Thread: fc2a5,2367910c0d0b0f78,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 29 Mar 2008 06:26:32 -0500
Date: Sat, 29 Mar 2008 06:24:30 -0500
From: Henry <wa0goz@arrl.net>
Reply-To:  wa0goz@arrl.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11) Gecko/
20071127 Firefox/2.0.0.11
X-Accept-Language: en-us
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Open form coils for sale
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 080328-0, 03/28/2008), Outbound message
X-Antivirus-Status: Clean
Message-ID: <nsCdnRnBbuL1unPanZ2dnUVZ_tqtnZ2d@comcast.com>
Lines: 35
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.118.236.147
X-Trace: sv3-jKe5k7y5YexoVneCdzsjqpKnwgof440Lg4TkAr6E6Q+4Lf3HLXByfviddno/
1UnZkJ6yGbVq/rwpsHg!wYaIDzRr1Y4K2jt5hxiuI7+oOdqRqlyIFfOJX1aNuht+1cVuMQATH+x/
zjSnO0TQV+6u9brRJBIg!mVKgeQsvZSVKAFcYWtufiICQCxLBXiI=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15420
```

I have the following new open form coils for sale.

Air Dux coils

(3)	408T	1/2" dia X 2" long	8t/in	$4 each
(4)	416T	1/2" dia X 2" long	15t/in	$4 each
(3)	432T	1/2" dia X 2" long	30t/in	$4 each
(4)	804T	1" dia X 3" long	4t/in	$5 each
(3)	810T	1" dia X 3" long	10t/in	$5 each
(3)	816T	1" dia X 3" long	16t/in	$5 each

B & W coils

(1)	3006	5/8" dia X 1 1/4" long	8t/in	$3
(1)	3008	5/8" dia X 1 7/8" long	32t/in	$4

B & W xmitting coils each with a coupling loop on a 5 pin ceramic base
(You have to be old to remember these. :-))

(1)	10JEL	(used)	$8
(1)	40JEL		$9
(1)	80JEL		$10

Unknown manufacturer coils (but made like Air Dux)

(4)	1 1/4" dia X 10" long	6t/in	$18 each
(2)	1 1/4" dia X 10" long	10t/in	$18 each
(1)	2" dia X 10" long	4t/in	$18
(1)	2" dia X 7/8" long	10t/in	$2

Prices are plus shipping in CONUS. I need your zip code to figure shipping.

Henry WA0GOZ
wa0goz@arrl.net

From -3964004360934773032
X-Google-Thread: 1109af,2fc40a9b266d80f7,start
X-Google-Thread: 107ada,2fc40a9b266d80f7,start
X-Google-Thread: 107cee,2fc40a9b266d80f7,start
X-Google-Thread: f4e7d,2fc40a9b266d80f7,start
X-Google-Thread: 1130cb,2fc40a9b266d80f7,start
X-Google-Thread: fc2a5,2fc40a9b266d80f7,start
X-Google-Thread: fc8b1,2fc40a9b266d80f7,start
X-Google-Thread: 10b9c8,2fc40a9b266d80f7,start
X-Google-Attributes: gid1109af,gid107ada,gid107cee,gidf4e7d,gid1130cb,gidfc2a5,gidfc8b1,gid10b9c8,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!198.186.194.247.MISMATCH!news-out.readnews.com!transit3.readnews.com!panix!bloom-beacon.mit.edu!senator-bedfellow.mit.edu!dreaderd!not-for-mail
Newsgroups: rec.radio.swap,rec.radio.amateur.misc,sci.electronics.misc,ne.forsale,ne.general,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.info
Subject: ** FLEA at MIT **   Sunday April 20th   Cambridge MA
Summary: Buy Sell SWAP Ham Radio Electronics Computers 9AM - 2PM
Expires: 4/22/08
Followup-To: poster
Approved: rec-radio-info@panix.com
Distribution: na
Organization: Massachvsetts Institvte of Technology
Keywords: Hamfest Fleamarket SWAPFEST Computers Ham Radio Electronics

Summary: Buy Sell SWAP   Ham Radio   Electronics Computers   9AM - 2PM

so come rain or shine or super heat the Flea is on !!!
From: w1gsl@mit.edu (Steven L. Finberg)
Date: 30 Mar 2008 06:19:01 GMT
Lines: 120
Message-ID: <47ef30d5$0$300$b45e6eb0@senator-bedfellow.mit.edu>
NNTP-Posting-Host: NO-KNIFE.MIT.EDU
X-Trace: 1206857941 senator-bedfellow.mit.edu 300 18.7.18.73
Xref: g2news1.google.com rec.radio.swap:18787 rec.radio.amateur.misc:43341 sci.electronics.misc:18739 ne.forsale:2248 ne.general:17791 rec.radio.amateur.homebrew:15421 rec.radio.amateur.boatanchors:14411 rec.radio.info:731

!! ** More Buyers PARKING is available ** for details see
http://web.mit.edu/w1gsl/Public/flyer

<FF>
********* $1 buyers discount with hardcopy of this notice ********

COMPUTERS - ELECTRONICS - HAM RADIO - COMPUTERS - ELECTRONICS - HAM RADIO

FLEA all SUMMER at MIT
Sunday April 20th 2008
9AM-2PM

Come to the city for a great flea - plenty of free parking.

MIT's electronics and ham radio flea will take place on the third Sunday of each month this summer, April thru October.

There is tailgate space for over 600 sellers and free, off-street parking for >2000 cars!

Buyers admission is $5 (you get $1 off if you're lucky enough to have a copy of our ad) and sellers spaces are $20 for the first and $15 for each additional at the gate.

The flea will be held on Albany between Mass Ave and Main streets in Cambridge; right in the Kendall Square area from 9AM to 2PM, with sellers set-up time starting at 7AM.

SEASON PASS + Advance Seller Discount

A sellers discount season pass is available which offers a 30% discount. By prepaying you get a discount and earlier admission. See the registration form.

*** Attention Sellers ***
Prepaid vendors.. Season Pass or monthly,
will be admitted FIRST.
Separate lines will form prior to gate opening
for prepaid and nonprepaid vendors

!! RAIN or SHINE !! Have no fear of rain, a covered
well illuminated tailgate area is available for all
sellers (6'8" clearance).

Talk-in: 145.23- (PL 88.5) W1BOS/R and
W1XM/R-449.725/444.725 (PL 114.8/2A).

Sponsors: MIT Electronics Research Society
MIT UHF Repeater Association (W1XM)
MIT Radio Society (W1MX)
Harvard Wireless Club (W1AF)

For more info / advanced reservations 617 253 3776 (M-F 9-5)

********** $1 buyers discount with hard copy of this notice ************

<FF>

Mail the coupon below by the 5th of the April to be a Prepaid Vendor.

FLEA at MIT 2008 Rates

SELLERS

To use your prepaid spaces the named vendor MUST be present.
Rates include one admission per space.

Season Pass Sellers admission to all seven meets this year
$99 First Space
$70 Each Additional space
Must be received by April 20th.

Advance $17 First space
$12 Additional Spaces
Must be received by the 10th of the month.

Gate Admission $20 First Space
$15 Additional Spaces
Admission is after the prepaid vendors.

Early Bird Buyer -Admission after the prepaid vendor line is admitted. ~ 7:15AM
** You may not sell. **
$15 per person at the gate.
$70 Season Early Bird Buyer

```
   cut and return
**************************************************************************
FLEA at MIT   2008       Advance Space Application                 4/08

   ____April    ____May    ____June   ____ July  ____Aug   ___Sept   ____Oct
          @ $17  for the first each month  + $12 each additional
   ____Season Pass @ $99  ____ Additional Season Spaces @ $70 ___EBB @$70

Name    ________________________     Call  __________     $ Included_________

Address ________________________     Phone  __________     Make Check to
                                                         The MIT Radio Society
City  ____________________ State  _______  Zip  _______    PO Box 397082
                                                           Cambridge MA 02139
E-mail  _____________________________________________




*******************************************************************************
Steve Finberg                       W1GSL                          w1gsl@mit.edu
PO Box 82 MIT Br           Cambridge MA  02139-7082                 617 258 3754
*******************************************************************************
```

```
From -8990979163254298322
X-Google-Thread: fc2a5,f6b40d49f2e7980e
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i12g2000prf.googlegroups.com!not-for-
mail
From: Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: USB Multimeter for Temp ??
Date: Sun, 30 Mar 2008 03:39:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 24
Message-ID: <e4fa3fcf-fac8-4dda-9c4c-ca766a88b3c5@i12g2000prf.googlegroups.com>
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net>
     <2593f1e0-88d4-4691-a772-614139266438@c19g2000prf.googlegroups.com>
     <13tr1ti35rp7p60@corp.supernews.com> <_YRDj.33$%M6.12@newsfe07.lga>
NNTP-Posting-Host: 218.215.180.234
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
```

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X-Trace: posting.google.com 1206873585 29372 127.0.0.1 (30 Mar 2008 10:39:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 30 Mar 2008 10:39:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i12g2000prf.googlegroups.com; posting-host=218.215.180.234;
     posting-account=LRLqpgkAAACt8OsWZnclc0j8ufDGwSA0
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.13)
     Gecko/20080311 Firefox/2.0.0.13,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15422

On Mar 19, 2:14 am, "xpyttl" <xpyttl_NOS...@earthling.net> wrote:
> "msg" <msg@_cybertheque.org_> wrote in message
>
> news:13tr1ti35rp7p60@corp.supernews.com...
>
> > nesesu wrote:
>
> > <snip>
> > Wow this is promiscuously cross-posted...
>
> Thanks for pointing that out.  I was about to say that this is
> rec.radio.amateur.homebrew so why not build something.  But apparently, it's
> just buckshot
>
> ..

hey, loosen up - the thread has been a good tutorial of whats
available, where to get it, applications, and a nice link to a
homebrew heating project. (Which, BTW, was published in a local
magazine notorious for NOT publishing anything that needed more than a
hammer to assemble...) What more do you want? - how to carve them
yourself out of a block of germanium?

Andrew VK3BFA.


From 1424603833429430941
X-Google-Thread: fc8b1,8341521e01935dd7
X-Google-Thread: 10c2ee,8341521e01935dd7
X-Google-Thread: fc2a5,8341521e01935dd7
X-Google-Thread: 112d1e,8341521e01935dd7
X-Google-Attributes: gidfc8b1,gid10c2ee,gidfc2a5,gid112d1e,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr25.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.antiques.radio+phono,rec.radio.amateur.homebrew,
sci.electronics.design
References: <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>
```

```
<47e47a97$0$11007$470ef3ce@news.pa.net> <13udr26kehk9g7a@corp.supernews.com>
Subject: Re: Sylvania R1131C octal tube ?
Lines: 55
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <wcOHj.30808$R84.6989@newssvr25.news.prodigy.net>
NNTP-Posting-Host: 70.143.43.135
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr25.news.prodigy.net 1206890396 ST000 70.143.43.135 (Sun, 30 Mar
2008 11:19:56 EDT)
NNTP-Posting-Date: Sun, 30 Mar 2008 11:19:56 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
[[PAPDON^ZUKRTD[@JIROFXBWR\HPCTL@XT^OBPLAH[\RYIBK^RAQFW[ML\THRCKV^GGZKJMGV^^_JSCFF
UA_QXFGVSCYRPILH]TRVKC^LSN@DX_HCAFX__@J\DAJBVMY\ZWZCZLPA^MVH_P@\
\EOMW\YSXHG__IJQY_@M[A[[AXQ_XDSTAR]\PG]NVAQUVM
Date: Sun, 30 Mar 2008 15:19:56 GMT
Xref: g2news1.google.com rec.radio.amateur.boatanchors:14413
rec.antiques.radio+phono:95775 rec.radio.amateur.homebrew:15423
sci.electronics.design:330062
```

Thanks for all the help..
I also found this on an old schematic where they show a 1 meg resistor
across the 3 & 7.
pin 3 cathode
pin 7 anode

--

73
Hank WD5JFR

"Richard Knoppow" <dickburk@ix.netcom.com> wrote in message
news:13udr26kehk9g7a@corp.supernews.com...

```
>
> "gudmundur" <hexter@blazenet.net> wrote in message
> news:47e47a97$0$11007$470ef3ce@news.pa.net...
>> In article <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>,
>> kolesnik@nojunksbcglobal.net says...
>>>
>>>I got a couple of the subject tubes which are supposed to be "glow
>>>modulator tubes".  Best I can determine is that the light output will
>>>vary with current but I can't find  data sheet googling. If anyone
>>>has
>>>pinout and/or data I'd sure like to see it.  I think it might be a
```

```
>>>mid
>>>1960s item as my 1957  Sylvania manual doesn't show it.
>>>thanks
>>>
>>>--
>>>
>>>73
>>>Hank WD5JFR
>>
>> Everyone replies, and yet you get no answers,
>>
>> R-1131C,D
>> Max dcv 150
>> ma. 3-25
>> peak ma. 55
>> starting voltage 225
>> crater dia. .093
>> candelpower .2@25 ma.
>> light color  white
>>
>     What is the pin arrangement?
>
>
> --
> ---
> Richard Knoppow
> Los Angeles, CA, USA
> dickburk@ix.netcom.com
>
>



From -5846711368988470853
X-Google-Thread: f849b,85f81511afa1df8a,start
X-Google-Thread: fc2a5,85f81511afa1df8a,start
X-Google-Attributes: gidf849b,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.cpinternet!
news.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 31 Mar 2008 14:05:52 -0500
Date: Mon, 31 Mar 2008 14:05:45 -0600
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: comp.arch.embedded,rec.radio.amateur.homebrew
Subject: Sheet-beam tubes (6ar8, 7360, etc) as analog multipliers
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <78ednUcEOqONq2zanZ2dnUVZ_qygnZ2d@cpinternet>
```

Lines: 33
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-Y9w9kuxOIAvsvsNTstRiNgzQmtEckTzLqUXgaCqm+jW8f7cb7xZlTm5upGJPwIZ10p/MDpZGwjiRqjE!dH83s87jp3edEQNFWA7/iLkoNB0uGXr0+K5Wl65+sRYvD+TSDu7lHArw2v/ZGaqvjp9yD3Lrpdwt!TY7qFkSvCYPE
X-Complaints-To: abuse@cpinternet
X-DMCA-Complaints-To: abuse@cpinternet
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com comp.arch.embedded:66418 rec.radio.amateur.homebrew:15424

Posted to two newsgroups known to be read by likely respondents ;)

The published literature on pre-solid-state electronic analog multipliers is scant except for production equipment from analog computer makers (which by now is difficult to locate). One example of a useful technique is a four quadrant electron beam multiplier described here:

http://dspace.mit.edu/bitstream/1721.1/4819/1/RLE-TR-249-04734375.pdf

More exotic tubes with curved deflection geometries followed, however obtaining such tubes is now difficult.

Has anyone at some point tried using sheet-beam deflection tubes as were used in synchronous detectors and balanced modulator designs for analog multiplication? I imagine that using four tubes each driven by quadrant-limited amplifiers and whose outputs would be biased and summed with scaling may work within a few percent of input values based on a quick look at the characteristic curves published for these tubes. Another option would be to add a magnetic deflection yoke over the tubes to provide a proportional steering of the beam sheet in conjunction with the electrostatic deflection (one of the deflection circuits could be placed in the negative feedback loop of an op-amp) to reduce the number of tubes required to two (+/-x, y; +/-x, -y).

It wouldn't take long to breadboard a test circuit for investigation, but knowing past efforts is always welcome. Surely someone has evaluated using these tubes in this fashion, even if just for kicks ;)

Michael

From 7392358535891789402
X-Google-Thread: fc2a5,64218b443cb94261,start
X-Google-Thread: 107ada,64218b443cb94261,start
X-Google-Attributes: gidfc2a5,gid107ada,domainid0,public,usenet

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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!
newscon02.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!nlpi068.nbdc.sbc.com.POSTED!ac3deb13!not-for-mail
From: Esther & Fester Bestertester <not@me.really>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C416A18A02E8435FB01AD9AF@news.sf.sbcglobal.net>
Subject: Variable inductor, DIY?
Newsgroups: rec.radio.amateur,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Reply-To: not@me.really
Lines: 10
NNTP-Posting-Host: 67.116.238.37
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi068.nbdc.sbc.com 1206997874 ST000 67.116.238.37 (Mon, 31 Mar 2008
17:11:14 EDT)
NNTP-Posting-Date: Mon, 31 Mar 2008 17:11:14 EDT
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
TSU[@I_AO@TARWDX]RKXOFTBTR\B@GXLN@GZ_GYO^JWTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Mon, 31 Mar 2008 14:11:22 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:15425
rec.radio.amateur.misc:43352
```

I'd like to build a variable inductor with what I have around my shop (lots of bits n' pieces, but no cores). I need it to work in the area of 20-30 mH, 1A, 25-30 KHz.

Is this something do-able? Is there something available off-the-shelf?

Suggestions of how to go about it would be greatly appreciated.

FBt

```
From -5620571678433786846
X-Google-Thread: fc2a5,e180107c749b890d,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews7.bellsouth.net.POSTED!aba369ab!
not-for-mail
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.12 (Windows/20080213)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: IF Tuning Cans Question
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
```

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Content-Transfer-Encoding: 8bit
Lines: 14
Message-ID: <uNcIj.16001$%15.7861@bignews7.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
enggpaojkliedbjjdbdpiflmbcekedmfhojhikkbagflhcboaflncpeepkghndelloepocgenbdneclapd
kkniakbmhaegdaddjjgfddnbepopomfkchgdklbiopcbmoajcjajdkokhgemnjmliilenkkflkggbe
NNTP-Posting-Date: Mon, 31 Mar 2008 17:34:18 EDT
Organization: BellSouth Internet Group
Date: Mon, 31 Mar 2008 17:34:48 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:15426
```

I have a receiver with some ferrite tuning coils in the IF. In the process of retuning, attempting to peak the IF, I cracked coils in two cans and they are locked into place. They are in same position from original and the receiver seems fine, makes sensitivity etc. Is there any measurable change to the inductor Q or other parameter when this occurs? I did get replacements but the effort to replace seems difficult.

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

```
From 9151361223494451312
X-Google-Thread: f849b,85f81511afa1df8a
X-Google-Thread: fc2a5,85f81511afa1df8a
X-Google-Attributes: gidf849b,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 31 Mar 2008 17:56:09 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Sheet-beam tubes (6ar8, 7360, etc) as analog multipliers
Newsgroups: comp.arch.embedded,rec.radio.amateur.homebrew
References: <78ednUcEOqONq2zanZ2dnUVZ_qygnZ2d@cpinternet>
User-Agent: Pan/0.129 (Benson & Hedges Moscow Gold)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <temdnfte8emU8WzanZ2dnUVZ_hninZ2d@web-ster.com>
Date: Mon, 31 Mar 2008 17:56:09 -0500
Lines: 53
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 65.182.232.25
X-Trace: sv3-Pr3sS19Pq+7Y/08msJsgywtWi5BHht6LDULv7nsfITfpQjEW1hOeATGcbCP8G/
oVcb9bZtrO3yzABZc!OSn65wDWkCS7lrGLUEGk+MHyXnYH1MWi0U4yUqbsD5+BEK9GRU1TW/
```

```
wrBxrP+WmpYc+0IouMeuLz!NXtfl80nWk7GA+I=
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com comp.arch.embedded:66430 rec.radio.amateur.homebrew:15427
```

On Mon, 31 Mar 2008 14:05:45 -0600, msg wrote:

> Posted to two newsgroups known to be read by likely respondents ;)
>
> The published literature on pre-solid-state electronic analog
> multipliers is scant except for production equipment from analog
> computer makers (which by now is difficult to locate). One example of a
> useful technique is a four quadrant electron beam multiplier described
> here:
>
> http://dspace.mit.edu/bitstream/1721.1/4819/1/RLE-TR-249-04734375.pdf
>
> More exotic tubes with curved deflection geometries followed, however
> obtaining such tubes is now difficult.
>
> Has anyone at some point tried using sheet-beam deflection tubes as were
> used in synchronous detectors and balanced modulator designs for analog
> multiplication? I imagine that using four tubes each driven by
> quadrant-limited amplifiers and whose outputs would be biased and summed
> with scaling may work within a few percent of input values based on a
> quick look at the characteristic curves published for these tubes.
> Another option would be to add a magnetic deflection yoke over the tubes
> to provide a proportional steering of the beam sheet in conjunction with
> the electro- static deflection (one of the deflection circuits could be
> placed in the negative feedback loop of an op-amp) to reduce the number
> of tubes required to two (+/-x, y; +/-x, -y).
>
> It wouldn't take long to breadboard a test circuit for investigation,
> but knowing past efforts is always welcome. Surely someone has evaluated
> using these tubes in this fashion, even if just for kicks ;)
>
> Michael

Two thoughts:

1: x(1 + y) - x(1 - y) = 2xy. Two beam tubes and a couple of op-amps, and you're in business. Even with tube op-amps you may use less space and have less grief from offsets than the space of your quadrant-switching amp and whatever grief you get from same.

2: There are any number of hot-rod DSP chips that'll fit into a T6-1/2 envelope, complete with ADC's, DAC's and a power supply to run off of 6.3VAC. Sealing the glass up without messing up the DSP may be a challenge, but you could always fudge and use acrylic.

--
Tim Wescott
Control systems and communications consulting
http://www.wescottdesign.com

Need to learn how to apply control theory in your embedded system?
"Applied Control Theory for Embedded Systems" by Tim Wescott
Elsevier/Newnes, http://www.wescottdesign.com/actfes/actfes.html

From -3701178776001252115
X-Google-Thread: fc2a5,64218b443cb94261
X-Google-Thread: 107ada,64218b443cb94261
X-Google-Attributes: gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Variable inductor, DIY?
Date: Tue, 01 Apr 2008 01:07:46 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.04.01.08.07.42.513291@localhost.localdomain>
Newsgroups: rec.radio.amateur,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <0001HW.C416A18A02E8435FB01AD9AF@news.sf.sbcglobal.net>
Followup-To: rec.radio.amateur.homebrew
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 23
Organization: Octanews
NNTP-Posting-Date: 01 Apr 2008 03:07:55 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15428
rec.radio.amateur.misc:43353

On Mon, 31 Mar 2008 14:11:22 -0700, Esther & Fester Bestertester wrote:

> I'd like to build a variable inductor with what I have around my shop (lots
> of bits n' pieces, but no cores). I need it to work in the area of 20-30 mH,
> 1A, 25-30 KHz.
>
> Is this something do-able? Is there something available off-the-shelf?
>
> Suggestions of how to go about it would be greatly appreciated.
>
> FBt

Hi,

You need it to handle 1A of current down there? You must be a VLFer.

No cores is right, it will probably saturate and make for a BBQ. We are

talking a BIG air core inductor here. A variometer might be your best bet
for variable inductance with those specs. Give that a Google.

Cheers,

--
Gregg

```
From -1277558895418832449
X-Google-Thread: f849b,85f81511afa1df8a
X-Google-Thread: fc2a5,85f81511afa1df8a
X-Google-Attributes: gidf849b,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!feeder.news-service.com!newsfeed00.sul.t-online.de!
newsfeed01.sul.t-online.de!t-online.de!news.germany.com!
feeder2.news.saunalahti.fi!feeder1.news.saunalahti.fi!nntp.inet.fi!
central1.inet.fi!inet.fi!read4.inet.fi.POSTED!53ab2750!not-for-mail
From: Tauno Voipio <tauno.voipio@INVALIDiki.fi>
User-Agent: Mozilla Thunderbird 1.0.7 (Macintosh/20050923)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: comp.arch.embedded,rec.radio.amateur.homebrew
Subject: Re: Sheet-beam tubes (6ar8, 7360, etc) as analog multipliers
References: <78ednUcEOqONq2zanZ2dnUVZ_qygnZ2d@cpinternet>
In-Reply-To: <78ednUcEOqONq2zanZ2dnUVZ_qygnZ2d@cpinternet>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 45
Message-ID: <cZqIj.183$Qx5.54@read4.inet.fi>
Date: Tue, 01 Apr 2008 13:42:32 GMT
NNTP-Posting-Host: 88.195.108.207
X-Complaints-To: abuse@inet.fi
X-Trace: read4.inet.fi 1207057352 88.195.108.207 (Tue, 01 Apr 2008 16:42:32 EEST)
NNTP-Posting-Date: Tue, 01 Apr 2008 16:42:32 EEST
Organization: Sonera Customer
Xref: g2news1.google.com comp.arch.embedded:66452 rec.radio.amateur.homebrew:15429
```

msg wrote:

> Posted to two newsgroups known to be read by likely respondents ;)
>
> The published literature on pre-solid-state electronic analog
> multipliers is scant except for production equipment from
> analog computer makers (which by now is difficult to locate).
> One example of a useful technique is a four quadrant electron
> beam multiplier described here:
>
> http://dspace.mit.edu/bitstream/1721.1/4819/1/RLE-TR-249-04734375.pdf
>
> More exotic tubes with curved deflection geometries followed,
> however obtaining such tubes is now difficult.
>
> Has anyone at some point tried using sheet-beam deflection

> tubes as were used in synchronous detectors and balanced
> modulator designs for analog multiplication? I imagine
> that using four tubes each driven by quadrant-limited
> amplifiers and whose outputs would be biased and summed
> with scaling may work within a few percent of input values
> based on a quick look at the characteristic curves published
> for these tubes. Another option would be to add a magnetic
> deflection yoke over the tubes to provide a proportional
> steering of the beam sheet in conjunction with the electro-
> static deflection (one of the deflection circuits could be
> placed in the negative feedback loop of an op-amp) to
> reduce the number of tubes required to two (+/-x, y; +/-x, -y).
>
> It wouldn't take long to breadboard a test circuit for
> investigation, but knowing past efforts is always welcome.
> Surely someone has evaluated using these tubes in this fashion,
> even if just for kicks ;)
>
> Michael

Just a memory from tens of years ago:

The 7360 made a decent balanced modulator, but it is,
by definition, extremely sensitive for external electric
and magnetic fields.

--

Tauno Voipio (OH2UG)
tauno voipio (at) iki fi

From 5307121859907449136
X-Google-Thread: f849b,85f81511afa1df8a
X-Google-Thread: fc2a5,85f81511afa1df8a
X-Google-Attributes: gidf849b,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.cpinternet!
news.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 01 Apr 2008 13:34:17 -0500
Date: Tue, 01 Apr 2008 13:35:26 -0600
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: comp.arch.embedded,rec.radio.amateur.homebrew
Subject: Re: Sheet-beam tubes (6ar8, 7360, etc) as analog multipliers
References: <78ednUcEOqONq2zanZ2dnUVZ_qygnZ2d@cpinternet>
<temdnfte8emU8WzanZ2dnUVZ_hninZ2d@web-ster.com>
In-Reply-To: <temdnfte8emU8WzanZ2dnUVZ_hninZ2d@web-ster.com>
Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Transfer-Encoding: 7bit
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Lines: 12
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NNTP-Posting-Host: 216.251.177.106
X-Trace: sv3-HLgctgfQ6vKuLgzckmqQogdjZ9XgUvPUSWYGunq/BYAAx363p6g8l8WBdtO6q/
j39IUqVLdLFPgCW3k!
Z9mav8NrB2UagJTRBYmcyAtRa4xKSUpgKK3WbkCXAyoo2JG6Oqo3GP4bkjoOSgRqcWXKDhLnlX07!
5tG38nUt/jNO
X-Complaints-To: abuse@cpinternet
X-DMCA-Complaints-To: abuse@cpinternet
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com comp.arch.embedded:66472 rec.radio.amateur.homebrew:15430

Tim Wescott wrote:

<snip>
> 2: There are any number of hot-rod DSP chips that'll fit into a T6-1/2
> envelope, complete with ADC's, DAC's and a power supply to run off of
> 6.3VAC. Sealing the glass up without messing up the DSP may be a
> challenge, but you could always fudge and use acrylic.
>

This would be a new acme in solid-state (Fetron-style) replacements ;)

Michael

From -3615472480474366571
X-Google-Thread: fc2a5,64218b443cb94261
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!
newscon02.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!nlpi070.nbdc.sbc.com.POSTED!ac3deb13!not-for-mail
From: Esther & Fester Bestertester <not@me.really>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C417DFCB0308199DB01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Variable inductor, DIY?
Newsgroups: rec.radio.amateur.homebrew
Reply-To: not@me.really
References: <0001HW.C416A18A02E8435FB01AD9AF@news.sf.sbcglobal.net>
<pan.2008.04.01.08.07.42.513291@localhost.localdomain>
Lines: 8
NNTP-Posting-Host: 67.116.238.37
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi070.nbdc.sbc.com 1207079344 ST000 67.116.238.37 (Tue, 01 Apr 2008

15:49:04 EDT)
NNTP-Posting-Date: Tue, 01 Apr 2008 15:49:04 EDT
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
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UG^Q\DINVAXSLIFXYJSSCCALP@PB@\OS@BITWAH\CQZKJMMD^SJA^NXA\GVLSRBD^M_NW_F[YLVTWIGAXA
QBOATKBBQRXECDFDMQ\DZFUE@\JM
Date: Tue, 1 Apr 2008 12:49:15 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:15431

> A variometer might be your best bet
> for variable inductance with those specs. Give that a Google.

Thanks for the pointer, Gregg. Excellent information available, once one
knows the right terminology. :-)

FBt

From 8266797605581817202
X-Google-Thread: fc2a5,c952c67c855b73b3,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!not-for-mail
From: Jim <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Need socket pinout on 4CX1500B Tube
Date: Wed, 02 Apr 2008 19:48:25 -0500
Message-ID: <t3a8v3hgs868udvushbdo9vf0qbhn44fle@4ax.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 12
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15432

Can anyone lead me to a diagram of the pinout for this tube? I found
one for PENTA but it was so distorted could not make it out.

I think the center pin/bottom ring must be one side of the filament
and possibly the cathode.

Any leads appreciated. I even have the socket but cannot figure
the pinout.

Thanks

```
From 7841097713610424362
X-Google-Thread: fc2a5,c952c67c855b73b3
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!wns13feed!
worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <t3a8v3hgs868udvushbdo9vf0qbhn44fle@4ax.com>
Subject: Re: Need socket pinout on 4CX1500B Tube
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <82WIj.50073$TT4.26217@attbi_s22>
NNTP-Posting-Host: 12.219.130.17
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1207184644 12.219.130.17 (Thu, 03 Apr 2008 01:04:04 GMT)
NNTP-Posting-Date: Thu, 03 Apr 2008 01:04:04 GMT
Organization: AT&T ASP.att.net
Date: Thu, 03 Apr 2008 01:04:04 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15433
```

"Jim" <nospam@nospam.com> wrote in message
news:t3a8v3hgs868udvushbdo9vf0qbhn44fle@4ax.com...

> Can anyone lead me to a diagram of the pinout for this tube? I found
> one for PENTA but it was so distorted could not make it out.
>
> I think the center pin/bottom ring must be one side of the filament
> and possibly the cathode.
>
> Any leads appreciated. I even have the socket but cannot figure
> the pinout.
>
> Thanks

Bottom Heater
Next up Heater and cathode
Next up Grid
Next up Screen

W4ZCB

From 6908757109358660747
X-Google-Thread: fc2a5,3b41cd65fc8787a,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e10g2000prf.googlegroups.com!not-for-mail
From: kalpraj.m@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Inductors in nH
Date: Wed, 2 Apr 2008 21:42:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 5
Message-ID: <72548d31-4558-4d7e-ad8c-e3e2ad0ac53f@e10g2000prf.googlegroups.com>
NNTP-Posting-Host: 203.197.87.94
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1207197775 7413 127.0.0.1 (3 Apr 2008 04:42:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 3 Apr 2008 04:42:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e10g2000prf.googlegroups.com; posting-host=203.197.87.94;
posting-account=jif-NwoAAAClvls4QNB4a2iNHlt7UCBG
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.25 (Windows NT 5.1; U; en),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15434

Hi all,

I am student of engineering. I require inductors in nH range. But m not able to find it out. Please tell me any site or place so that i can get that in one or two days. Or if u hav any methode of makin inductors please tell me.

From 4306452185549510375
X-Google-Thread: fc2a5,64218b443cb94261
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!newssvr19.news.prodigy.net.POSTED!ac3deb13!not-for-mail
From: Anon bozo <anon@bozo.to>
MIME-Version: 1.0
User-Agent: Hogwasher/4.3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-ID: <0001HW.C419C0910348DBCCB01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Variable inductor, DIY?
Newsgroups: rec.radio.amateur.homebrew
Reply-To: anon@bozo.to
References: <0001HW.C416A18A02E8435FB01AD9AF@news.sf.sbcglobal.net>
<pan.2008.04.01.08.07.42.513291@localhost.localdomain>

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NNTP-Posting-Date: Thu, 03 Apr 2008 02:00:21 EDT
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
Q[R_@SFD\ZVER_@Y@BCD^VX@WB]^PCPDLXUNNHPHBATBTSUBYFWEAE[YJLYPIWKHTFCMZKVMB^[Z^DOBRV
VMOSPFHNSYXVDIE@X\BUC@GTSX@DL^GKFFHQCCE\G[JJBMYDYIJCZM@AY]GNGPJD]YNNW\GSX^GSCKHA[]
@CCB\[@LATPD\L@J\\PF]VR[QPJN
Date: Wed, 2 Apr 2008 23:00:33 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:15435

> You need it to handle 1A of current down there? You must be a VLFer.
>
> No cores is right, it will probably saturate and make for a BBQ. We are
> talking a BIG air core inductor here.

OK, how about if I lower the specs to ~0.5A, or even less. How can I construct a variable inductor 0 to 10 mHy (or more)?

Thank,
FBt

From -7713180920025754971
X-Google-Thread: fc2a5,3b41cd65fc8787a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!r9g2000prd.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Inductors in nH
Date: Wed, 2 Apr 2008 23:52:03 -0700 (PDT)
Organization: http://groups.google.com
Lines: 40
Message-ID: <0ad015e3-f5ba-4e28-ba07-34f61cf5f7b0@r9g2000prd.googlegroups.com>
References: <72548d31-4558-4d7e-ad8c-e3e2ad0ac53f@e10g2000prf.googlegroups.com>
NNTP-Posting-Host: 71.112.191.81
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1207205523 31995 127.0.0.1 (3 Apr 2008 06:52:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 3 Apr 2008 06:52:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r9g2000prd.googlegroups.com; posting-host=71.112.191.81;
posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.12)

Gecko/20080201 Firefox/2.0.0.12,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15436

On Apr 2, 9:42 pm, kalpra...@gmail.com wrote:

> Hi all,
> I am student of engineering. I require inductors in nH range. But m not able to find it out. Please tell me any site or place so that i can get that in one or two days. Or if u hav any methode of makin inductors please tell me.

It is not difficult to wind your own inductors. Values up to at least a few hundred nanohenries may be made by winding copper wire around the threads of a machine screw, and unscrewing the screw, leaving a self-supporting coil. You have to be reasonably careful with such a coil, but it's a practical way to wind small coils. For higher values that require wire that's too fine to be self-supporting that way, you can wind the coil on a ceramic or plastic form. PVC pipe isn't the best RF insulator, but even it makes a decent coil form, and it's very cheap and readily available in various sizes. You can find small polystryene tubing at hobby stores, and it works well for a coil form, too. The type they sell isn't high quality RF grade stock, but again, it generally works well for coil forms. You can probably find other plastic cylinders around your school that will work as coil forms. You can even make your own by rolling up paper.

A good web site for calculating the inductance of a cylindrical helix is http://hamwaves.com/antennas/inductance.html. There's an inductance calculator for cylindrical helix coils and toroid coils in the RFSim99 package which you should be able to find for free download. It may well be useful to you for other things, too.

I assume these coils are for use at RF frequencies, probably a few MHz or above, so winding them with solid wire is appropriate. Air-core coils will have the best Q if you wind them with a little space between the turns--pitch of the turns about 1.5 to 2 times the wire diameter is usually good.

In the US, you can order inductors from DigiKey or Mouser and get them quickly if you live close to where they are shipped from, or if you pay extra for fast delivery.

Cheers,
Tom

From -2399204673360483169
X-Google-Thread: fc2a5,3b41cd65fc8787a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 03 Apr 2008 06:11:59 -0500

Date: Thu, 03 Apr 2008 12:12:19 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Inductors in nH
References: <72548d31-4558-4d7e-ad8c-e3e2ad0ac53f@e10g2000prf.googlegroups.com>
<0ad015e3-f5ba-4e28-ba07-34f61cf5f7b0@r9g2000prd.googlegroups.com>
In-Reply-To: <0ad015e3-f5ba-4e28-ba07-34f61cf5f7b0@r9g2000prd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <duadnW87N8fiJmna4p2dnAA@pipex.net>
Lines: 11
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 85.210.111.68
X-Trace: sv3-8N0SY1qXJ0kL2JI+7RwI2+x96yfmQxD/
MyfPli8eCteIxRWteR9DZgVP+JvXb9LN+rByqCFNQfT/saj!
pjidRDgGBD9G1AlcX0LEAaopkuRs1aOZVMQe+/sxRP2E/NEcid9BMNeSBcMUkuB1mvnY+KMzvF8x!
H676Ue8MSIRHgQ==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com rec.radio.amateur.homebrew:15437

K7ITM wrote:

> A good web site for calculating the inductance of a cylindrical helix
> is http://hamwaves.com/antennas/inductance.html. There's an
> inductance calculator for cylindrical helix coils and toroid coils in
> the RFSim99 package which you should be able to find for free
> download. It may well be useful to you for other things, too.

======================
Tnx Tom for the above 'excellent' comprehensive web site reference.

Frank GM0CSZ / KN6WH

From -5787277946829466301
X-Google-Thread: fc8b1,8341521e01935dd7
X-Google-Thread: 108122,fed3cf122921aec1,start
X-Google-Thread: fc2a5,8341521e01935dd7
X-Google-Attributes: gidfc8b1,gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.190.251.MISMATCH!news-out.readnews.com!transit4.readnews.com!panix!
panix3.panix.com!arthures
From: A <arthures@panix.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.swap,rec.radio.amateur.equipment,r

ec.radio.amateur.homebrew
Subject: For sale: Johnson Ranger....
Date: Thu, 3 Apr 2008 09:35:56 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 68
Message-ID: <Pine.NEB.4.64.0804030930380.19782@panix3.panix.com>
References: <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>
 <47e47a97$0$11007$470ef3ce@news.pa.net> <13udr26kehk9g7a@corp.supernews.com>
 <wcOHj.30808$R84.6989@newssvr25.news.prodigy.net>
NNTP-Posting-Host: panix3.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1207229758 28544 166.84.1.3 (3 Apr 2008 13:35:58 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 3 Apr 2008 13:35:58 +0000 (UTC)
In-Reply-To: <wcOHj.30808$R84.6989@newssvr25.news.prodigy.net>
Xref: g2news1.google.com rec.radio.amateur.boatanchors:14428
rec.radio.amateur.equipment:14199 rec.radio.amateur.homebrew:15438

For sale: Viking Johnson Ranger

I bought it at a hamfest a number of years ago ('03?) when I was phasing into retirement and thinking of doing some kind of a restoration and had partial success with this. However, I have gravitated to a different kind of retirement ham hobby activity: total or almost total homebrewing. Thus, I'd like to find a new home for this Ranger.

Caveats: It has some major internal problems, The guy before the guy I bought it from had totally torn out all of the CW circuitry. Also, the modulator was converted from 2x1614s to a pair of 2E26s. The modulation transformer is unknown, hermetically sealed (black pot), and of a brand name I've never heard of, and larger than the original, AND located on the opposite side of the chassis. This guy also converted the speech amplifier to a big mess and a phase inverter driver for the 2E26s. Also, as part of this job, he tore out the 5V4 (?) and left the 5R4 thus making it all 500-550 vdc and no low voltage. To get low voltage (for VFO and 6CL6s) he used power resistors in series with low voltage load and connected the top to the high voltage supply. He also moved the VR tube to where the crystal socket was. The power transformer and large choke seem like the original.

At the time I aquired the rig, the electrolytic was dry (hum on carrier looke like 30% on a scope). I made a kludge repair on that and drove the 2E26s with an outboard hi-fi amp and actually had the rig on the air in several AM contacts on 160 and 75. The VFO does not jump frequency (I had this problem on an earlier Ranger many years ago) during or after warm-up, at least to the extent that I monitored this. I have observed a spur coming sometimes from the 6146 driver (in standby, swishing through the driver tune knob, get a herterodyne in a receiver).

My own mods included two mini-toggle switches near the function switch (which needs cleaning and oil). The meter is OK, but the meter switch needs cleaning, too. I added a DPDT relay run off the 110 vac as part of a plan to change the manner of control of standby to transmit and back. Off the back panel I've added banana jacks for certain outside "port" connections, and one of those European-type female chassis plugs (three prong) that you see everywhere now for AC-in. I also tore out the power line filter (caps to ground & series inductances [I've gotten mild shocks off all of this old gear that put those things in under the 'old ways' GMPs, but I think they are basically useless]). The cabinet cosmetics are probably, IIRC, closest to "very good" in terms of few scratches/wear and barely any rust or corrosion anywhere (except some on some surfaces of the transformers/chokes).

There may be some other minor issues but I can't think of them just now.

So, you could look at this as a restoration to a less-than-original state or a spare-parts source. I paid $200 for this, but I paid too much. I guess its worth $50, now, and I think I don't want to ship it. I'm in southern Delaware and not in a hurry to get rid of it but would like to free up some space in my hamshack and get it into someone's hands who is wants to do the restoration I was going for (just AM capability), or whatever. So, I'm willing to drive one way about up to one hour in any direction to some "half-way" point away from my home. Manual reproduction comes with. There is also a Georgetown, DE hamfest on April 12, here (at Sussex Tech HS), and could meet someone there, too.

If you are interested then email me and tell me your story (in case there is more than one person interested who can meet me within my one hour driving radius of Georgetown, DE). Respond to the email address originating from this post, but if I don't answer within 2 days, make a followup post and give your email address in that post (I have spam filters but simple email usually does get through).

W4PON

From 8432986173244849221
X-Google-Thread: fc2a5,c952c67c855b73b3
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!not-for-mail
From: Jim <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need socket pinout on 4CX1500B Tube
Date: Thu, 03 Apr 2008 09:10:04 -0500
Message-ID: <u8p9v3tl4he9msecg4b3j6b51a3vfm9ive@4ax.com>
References: <t3a8v3hgs868udvushbdo9vf0qbhn44fle@4ax.com>
<82WIj.50073$TT4.26217@attbi_s22>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
Lines: 31
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15439

Thanks for the pinout.

Jim

On Thu, 03 Apr 2008 01:04:04 GMT, "Harold E. Johnson"
<W4ZCB@mchsi.com> wrote:

>
>"Jim" <nospam@nospam.com> wrote in message
>news:t3a8v3hgs868udvushbdo9vf0qbhn44fle@4ax.com...
>> Can anyone lead me to a diagram of the pinout for this tube? I found
>> one for PENTA but it was so distorted could not make it out.
>>
>> I think the center pin/bottom ring must be one side of the filament
>> and possibly the cathode.
>>
>> Any leads appreciated. I even have the socket but cannot figure
>> the pinout.
>>
>> Thanks
>>
>>
>Bottom Heater
>Next up Heater and cathode
>Next up Grid
>Next up Screen
>
>W4ZCB
>

From -2793542430239557107
X-Google-Thread: fc2a5,64218b443cb94261
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Variable inductor, DIY?
Date: 3 Apr 2008 15:50:15 GMT
Lines: 16
Message-ID: <slrnfv9v5n.2u7t.bit-bucket@shell.config.com>
References: <0001HW.C416A18A02E8435FB01AD9AF@news.sf.sbcglobal.net>

```
<pan.2008.04.01.08.07.42.513291@localhost.localdomain>
<0001HW.C419C0910348DBCCB01AD9AF@news.sf.sbcglobal.net>
Reply-To: If you must, <Reply_to@my.sig.adr>
X-Trace: individual.net pu1L3inMz3lUwsaE7cRGgg6l8TGGPHd9oz5usabC0m9AyuUPlh
Cancel-Lock: sha1:5LhqCM3cVJfSH1YtVRsJ3efki2U=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15440

On Wed, 2 Apr 2008 23:00:33 -0700, Anon bozo wrote:
>> You need it to handle 1A of current down there? You must be a VLFer.
>>
>> No cores is right, it will probably saturate and make for a BBQ. We are
>> talking a BIG air core inductor here.
>
> OK, how about if I lower the specs to ~0.5A, or even less. How can I
> construct a variable inductor 0 to 10 mHy (or more)?

Maybe a variac?  Or, would that be too VVLF?  HI!HI!

Jonesy
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    *** Killfiling google posts: <http://jonz.net/ng.htm>


From 6916865871197622788
X-Google-Thread: fc2a5,64218b443cb94261
X-Google-Thread: 107ada,64218b443cb94261
X-Google-Attributes: gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc08.POSTED!1bc6af47!not-for-mail
From: "JB" <ml43@verizon.net>
Newsgroups: rec.radio.amateur,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <0001HW.C416A18A02E8435FB01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Variable inductor, DIY?
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <o77Jj.18730$bC6.7879@trnddc08>
Date: Thu, 03 Apr 2008 15:57:08 GMT
NNTP-Posting-Host: 71.118.2.23
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc08 1207238228 71.118.2.23 (Thu, 03 Apr 2008 11:57:08 EDT)
NNTP-Posting-Date: Thu, 03 Apr 2008 11:57:08 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15441
rec.radio.amateur.misc:43366
X-Original-Bytes: 1457
```

This is the answer:
http://www.qsl.net/in3otd/variodes.html

"Esther & Fester Bestertester" <not@me.really> wrote in message
news:0001HW.C416A18A02E8435FB01AD9AF@news.sf.sbcglobal.net...

> I'd like to build a variable inductor with what I have around my shop
(lots
> of bits n' pieces, but no cores). I need it to work in the area of 20-30
mH,
> 1A, 25-30 KHz.
>
> Is this something do-able? Is there something available off-the-shelf?
>
> Suggestions of how to go about it would be greatly appreciated.
>
> FBt
>

```
From 7098673115010202156
X-Google-Thread: fc2a5,3b41cd65fc8787a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
u10g2000prn.googlegroups.com!not-for-mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Inductors in nH
Date: Thu, 3 Apr 2008 09:40:23 -0700 (PDT)
Organization: http://groups.google.com
Lines: 20
Message-ID: <134bc9c1-260d-49ac-af7a-9d8739c91994@u10g2000prn.googlegroups.com>
References: <72548d31-4558-4d7e-ad8c-e3e2ad0ac53f@e10g2000prf.googlegroups.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1207240823 24181 127.0.0.1 (3 Apr 2008 16:40:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 3 Apr 2008 16:40:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u10g2000prn.googlegroups.com; posting-host=207.200.116.11;
     posting-account=0Q4qJQoAAAB4vjIbnPnpY8JqAcYZv7Os
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
     SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
3.0.04506),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-ntc-td08.proxy.aol.com[CFC87068] (Prism/1.2.1), HTTP/1.1
     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:15442

kalpraj.m@gmail.com wrote on Wed, Apr 2 2008 9:42 pm:

>Hi all,
>   I am student of engineering. I require inductors in nH range. But
>m not able to find it out. Please tell me any site or place so that i
>can get that in one or two days. Or if u hav any methode of makin
>inductors please tell me.

Try Ham Radio Magazine for July 1977 and the article "Self-Supporting Coils" by Leonard H. Anderson.

I will send a PDF copy to you by private e-mail as an attachment.

Please note that WIRE LEADS to coils in the nanoHenry range will have appreciable inductance by themselves and will affect any inductance calculations you do.

73, Len AF6AY

From -8345910950870140129
X-Google-Thread: fc2a5,c952c67c855b73b3
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!newsfeed.news.ucla.edu!ucdavis!not-for-mail
From: Skipp says hello <spamtheotherguy@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need socket pinout on 4CX1500B Tube
Date: Thu, 3 Apr 2008 19:00:44 +0000 (UTC)
Organization: University of California, Davis
Lines: 20
Sender: Skipp May <skipp@veni.ucdavis.edu>
Message-ID: <ft39gs$l0d$1@skeeter.ucdavis.edu>
References: <t3a8v3hgs868udvushbdo9vf0qbhn44fle@4ax.com>
NNTP-Posting-Host: veni.ucdavis.edu
X-Trace: skeeter.ucdavis.edu 1207249244 21517 128.120.47.42 (3 Apr 2008 19:00:44 GMT)
X-Complaints-To: usenet@ucdavis.edu
NNTP-Posting-Date: Thu, 3 Apr 2008 19:00:44 +0000 (UTC)
User-Agent: tin/1.4.7-20030322 ("Suggestions") (UNIX) (SunOS/5.8 (sun4u))
Xref: g2news1.google.com rec.radio.amateur.homebrew:15443

Same socket and tube connection as the 4cx1000

There's a data sheet on the http://www.radiowrench.com/sonic

cheers,
s.

: Jim <nospam@nospam.com> wrote:
: Can anyone lead me to a diagram of the pinout for this tube? I found
: one for PENTA but it was so distorted could not make it out.

: I think the center pin/bottom ring must be one side of the filament
: and possibly the cathode.

: Any leads appreciated. I even have the socket but cannot figure
: the pinout.

: Thanks

```
From 4846261731844719б1
X-Google-Thread: 108122,754582d6add34f17
X-Google-Thread: fc2a5,754582d6add34f17
X-Google-Attributes: gid108122,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!wn12feed!
worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!6f8a92c4!not-for-mail
Message-ID: <47F59FE9.8030507@worldnet.att.net>
From: Al Schapira <a.schapira@worldnet.att.net>
User-Agent: Thunderbird 2.0.0.9 (X11/20071115)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: HP Function Generators: (2) HP 3310A  (1) HP 3311A
References: <43910B3C.4000905@worldnet.att.net> <z4qdnU-hvI-
mV3fanZ2dnUVZ_sGvnZ2d@comcast.com> <13ulj5576787lc2@corp.supernews.com>
In-Reply-To: <13ulj5576787lc2@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 10
NNTP-Posting-Host: d6ffc5d4c7270fb29826e7ac6a6af13e
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1207279908
d6ffc5d4c7270fb29826e7ac6a6af13e (Fri, 04 Apr 2008 03:31:48 GMT)
NNTP-Posting-Date: Fri, 04 Apr 2008 03:31:48 GMT
Organization: AT&T Worldnet
Date: Fri, 04 Apr 2008 03:31:48 GMT
Xref: g2news1.google.com rec.radio.amateur.equipment:14201
rec.radio.amateur.homebrew:15444
```

```
Michael A. Terrell wrote:
> CP wrote:
>> Your links don't work.
>
>    You are replying to spam that is over two years old.
>
```

I removed the pictures when the units were sold (as you said, over two
years ago) but it wasn't spam. -Al

From -306832643491279723
X-Google-Thread: fc2a5,64218b443cb94261
X-Google-Thread: 107ada,64218b443cb94261
X-Google-Attributes: gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Variable inductor, DIY?
Date: 4 Apr 2008 14:48:56 GMT
Lines: 5
Message-ID: <slrnfvcfuo.2fbc.bit-bucket@shell.config.com>
References: <0001HW.C416A18A02E8435FB01AD9AF@news.sf.sbcglobal.net>
<o77Jj.18730$bC6.7879@trnddc08>
X-Trace: individual.net WYCoEvAtOV4CysJ3cXaxWQGwFvf+iZ2yCuZApj7gSs+H0gZ+8g
Cancel-Lock: sha1:w16mCMC09U5ngSeQn+yCGTY1PEg=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15445
rec.radio.amateur.misc:43373

On Thu, 03 Apr 2008 15:57:08 GMT, JB wrote:
> This is the answer:
> http://www.qsl.net/in3otd/variodes.html

I like the way the answers are carried out to *thirteen* decimal places!

From 7695385067194857382
X-Google-Thread: fc2a5,f6334f643041cc11,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.germany.com!aioe.org!not-for-mail
From: "Heriberto" <lu6dbu@cybertap.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: 814 Tube like with triode ?
Date: Fri, 4 Apr 2008 13:32:41 -0300
Organization: Aioe.org NNTP Server
Lines: 10
Message-ID: <ft5l4o$1j1$1@aioe.org>
NNTP-Posting-Host: kDFHpQ//BL19Cp511z4hTg.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
X-Priority: 3
X-Newsreader: Microsoft Outlook Express 5.00.2919.6600
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:15446

Hi:

Somebody knows the conditions of work of pentodo 814 like triode with
grid grounded ?
Thanks in advance

Heriberto
LU6DBU

```
From 5582372350717447958
X-Google-Thread: fc2a5,c952c67c855b73b3
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!not-for-
mail
From: Jim <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need socket pinout on 4CX1500B Tube
Date: Fri, 04 Apr 2008 15:22:48 -0500
Message-ID: <if3dv396d4osddrotgqr0u1fpopdvnf6c4@4ax.com>
References: <t3a8v3hgs868udvushbdo9vf0qbhn44fle@4ax.com>
<ft39gs$l0d$1@skeeter.ucdavis.edu>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 29
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15447
```

Skip;

Good site, got the articles and data sheets, gonna read the article on
building the 4cx1000 Amp for ideas...

On Thu, 3 Apr 2008 19:00:44 +0000 (UTC), Skipp says hello
<spamtheotherguy@yahoo.com> wrote:

>Same socket and tube connection as the 4cx1000
>
>There's a data sheet on the http://www.radiowrench.com/sonic
>
>cheers,
>s.
>
>: Jim <nospam@nospam.com> wrote:
>: Can anyone lead me to a diagram of the pinout for this tube? I found

```
>: one for PENTA but it was so distorted could not make it out.
>
>: I think the center pin/bottom ring must be one side of the filament
>: and possibly the cathode.
>
>: Any leads appreciated.  I even have the socket but cannot figure
>: the pinout.
>
>: Thanks
>



From -1005572239106425782
X-Google-Thread: fc2a5,e180107c749b890d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!s37g2000prg.googlegroups.com!not-for-
mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: IF Tuning Cans Question
Date: Sat, 5 Apr 2008 10:22:31 -0700 (PDT)
Organization: http://groups.google.com
Lines: 34
Message-ID: <a24dd29f-9556-4a9e-b766-dc48640cc2ef@s37g2000prg.googlegroups.com>
References: <uNcIj.16001$%15.7861@bignews7.bellsouth.net>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1207416151 13619 127.0.0.1 (5 Apr 2008 17:22:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 5 Apr 2008 17:22:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s37g2000prg.googlegroups.com; posting-host=207.200.116.11;
     posting-account=0Q4qJQoAAAB4vjIbnPnpY8JqAcYZv7Os
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
     SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
3.0.04506),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-ntc-te12.proxy.aol.com[CFC8708C] (Prism/1.2.1), HTTP/1.1
     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:15448

On Mar 31, 2:34=EF=BF=BDpm, RFI-EMI-GUY <Rhyol...@NETTALLY.COM> wrote:
> I have a receiver with some ferrite tuning coils in the IF. In the
> process of retuning, attempting to peak the IF, I cracked coils in two
> cans and they are locked into place. They are in same position from
> original and the receiver seems fine, makes sensitivity etc. Is there
> any measurable change to the inductor Q or other parameter when this
> occurs? I did get replacements but the effort to replace seems difficult.
```

There is PROBABLY no difference.

Assuming the usual "455 KHz" IFT, the cores are most probably POWDERED IRON in a binder, not "ferrite." Ferrite is iron powder alloy that is sintered (heated to not quite liquid state) and thus holds itself together without any polymer (plastic) binder.

Ferrite cores and structures will produce different results if broken than the manufacturer's data but cannot be predicted. In general, powdered iron cores already have their powder "broken" by suspension in the binder and can be glued/cemented together without undue change.

Ferrite things have been used in the microwave region for about 50 years and, for uniformity/reproducibility, require the things to be unbroken to achieve the desired results. But, that is in the region of 1 GHz and above and doesn't apply to the typical IFT.

73, Len AF6AY

From 4009928635969674777
X-Google-Thread: fc2a5,e180107c749b890d
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews4.bellsouth.net.POSTED!aba369ab!not-for-mail
Message-ID: <47F7F990.7060902@NETTALLY.COM>
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
User-Agent: Thunderbird 2.0.0.12 (Windows/20080213)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: IF Tuning Cans Question
References: <uNcIj.16001$%15.7861@bignews7.bellsouth.net> <a24dd29f-9556-4a9e-b766-dc48640cc2ef@s37g2000prg.googlegroups.com>
In-Reply-To: <a24dd29f-9556-4a9e-b766-dc48640cc2ef@s37g2000prg.googlegroups.com>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 46
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
npbhgpngjbkmjfegdbdpiflmbcekedmfhojhikkbagflhcbockdmpcekipinegknloepocgenbdneclapd
kkniakbmhaegdaebbdokmcigmdjfonimpaeefjhkegmgenhncmnigenejfikldhdfoedalmmbdgipb

```
NNTP-Posting-Date: Sat, 05 Apr 2008 18:13:08 EDT
Organization: BellSouth Internet Group
Date: Sat, 05 Apr 2008 18:13:36 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:15449

AF6AY wrote:
> On Mar 31, 2:34�pm, RFI-EMI-GUY <Rhyol...@NETTALLY.COM> wrote:
>> I have a receiver with some ferrite tuning coils in the IF. In the
>> process of retuning, attempting to peak the IF, I cracked coils in two
>> cans and they are locked into place. They are in same position from
>> original and the receiver seems fine, makes sensitivity etc. Is there
>> any measurable change to the inductor Q or other parameter when this
>> occurs? I did get replacements but the effort to replace seems difficult.
>
> There is PROBABLY no difference.
>
> Assuming the usual "455 KHz" IFT, the cores are most probably
> POWDERED IRON in a binder, not "ferrite."  Ferrite is iron powder
> alloy that
> is sintered (heated to not quite liquid state) and thus holds itself
> together
> without any polymer (plastic) binder.
>
> Ferrite cores and structures will produce different results if broken
> than the
> manufacturer's data but cannot be predicted.  In general, powdered
> iron
> cores already have their powder "broken" by suspension in the binder
> and
> can be glued/cemented together without undue change.
>
> Ferrite things have been used in the microwave region for about 50
> years
> and, for uniformity/reproducibility, require the things to be unbroken
> to achieve
> the desired results.  But, that is in the region of 1 GHz and above
> and doesn't
> apply to the typical IFT.
>
> 73, Len AF6AY

Thanks for the info!

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"©

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money"  ;-P
```

```
From -9101662233590443531
X-Google-Thread: fc2a5,13a047dd009a8d4f,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d45g2000hsc.googlegroups.com!not-for-
mail
From: WSQT <wsqtradio@ziplip.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Dissimilar transistors in VHF 55W PA made to work by DC radio pirate
Date: Sat, 5 Apr 2008 20:02:45 -0700 (PDT)
Organization: http://groups.google.com
Lines: 79
Message-ID: <4833bf6a-65b8-4379-8395-28ead8ba15f2@d45g2000hsc.googlegroups.com>
NNTP-Posting-Host: 208.58.194.164
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1207450966 22860 127.0.0.1 (6 Apr 2008 03:02:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 6 Apr 2008 03:02:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d45g2000hsc.googlegroups.com; posting-host=208.58.194.164;
     posting-account=y1U39QoAAAByiRRPQPCdk7mMI_zNAuio
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.6)
     Gecko/20071008 Ubuntu/7.10 (gutsy) Firefox/2.0.0.6,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15450
```

I thought some hams would appreciate the fruits of this research by WSQT Guerrilla Radio in DC. We have managed to make a 55W power amp for 88MHZ from a random pair of RF transistors, one a VHF device and one a UHF device! The amp works clean and stable despite its unconventional design, forced by components available to dumpster-diving pirates with little funds. Although broadcast amps are single-frequency, the matching networks used in VHF transistor amps are so low-Q that communications amps can often span their bandwidth with only a little further development, treating the matching networks as filters for purposes of design.

The results of this research should be relevant to Amateur FM mode operation in 2 meters(and 6 too for that matter if anyone is so inclined), as well as to the FM broadcast pirate work this particular amp was made for. Never done a linear(not used in FM nor AM broadcast in these power ranges), so have no idea if it would work or if one side would clip first and generate splatter!   This is a 55W amp, but if you are sitting on two medium size or big VHF or UHF transistors that don't match, consider trying them together!

The amp works like this: Each half is just an ordinary VHF power amp with one transistor, with the junctions of the input and output L networks ties together in parallel. Each L-network matches to twice the usual value at the junction point, as there are two in parallel. The output matching/loading capacitor and lowpass filter are in common, as is a pi network to allow a 600 ohm input impedance for each side(to keep coils realistic). Nothing else too it, except that stabilizing it works quite differently than any of those matched-transistor parallel designs that are referenced elsewhere and provided background for this project.

The key to the whole design is this: You CANNOT stabilize a dissimilar parallel amp with the usual low-value resistors running base-base and collector to collector. That was tried first-and the collector side one ran red hot! Strange, as the amp sounded clean with no big spurs, though it loaded awful heavy. Removing that resistor brought the expected storm of hash, while using 500 ohms instead of 10 collector-collector brought near stability, but not quite. At that point I was able to load and tune the amp close to correctly, but power was short of expectations and stability was marginal. Then I tried removing the base-base resistor-Presto! Far less, even after removing the collector resistor too! Each amp needed to be damped separately for low frequencies just as though it was running alone, and that was the end of all the hash. At that point, the amp could finally be loaded to full power.

Here's the rest of the stabilizing tricks, used on each side: 5 ohm resistors to ground from each base(10 ohms base-base center tapped results, not 2ohms floating), connect the base RFC's to a pad with a 150PF cap to ground and a 15 ohm resistor paralleled by a bead choke instead. On the collector side, each RFC simply needs the same 150PF cap from its pad, and a bead choke shunted by a 10 ohm resistor to another pad with a .047 capacitor and a single 100uf electrolytic for the pair, and you've got stability!

Except for the full on pi network matching the input to the base networks, it is otherwise just a dissimilar pair of 25-30W amplifiers, but they work,and a Pentium 4 heatsink and fan is enough to keep things cool. Expect the PA to draw about 6A at 12 volts, and expect to use a 5W driver to run it.

As for why the collector resistors ran so hot with the amp running clean, here's what I suspect: Since the two devices are so dissimilar, the current has different rise and fall times on each side. This amounts to different even-harmonic amplitudes and phases on each side-which amounts to a push-pull harmonic current superimposed on the common-mode, even in the absence of oscillation! This isn't coupled out, but appears across any stabilizing resistor used collector to collector. With single-ended transistor amps, the lowpass filter does most of the work on stopping harmonics anyway, and in the absence of oscillation or a parametric (addition) situation, no new frequencies not in either amps separate output appear. Only relative phases and amplitudes of harmonics need differ side-side to create a push-pull current.

Anyway, the amp works, dummy load testing sounded clean, and on-air testing gave no nasty suprises and no overheating with a Pentium 4 heatsink and fan.

From -8595978108251468272
X-Google-Thread: fc2a5,53d4e4da9a087fe5,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!post02.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Cable repair
Date: Mon, 7 Apr 2008 00:58:39 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Lines: 13
Message-ID: <47f9a9ff$0$1095$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 75.191.181.199
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15451

I had a backlog of a couple dozen patch cables to repair. Usually ony one end is damaged so I use the capacitance function on my multimeter to measure the wire to wire capacitance from each end of the wire. When I find a wire that reads near 0 capcitance compared to the others I know which wire it is and which end it is on.. I was surprised none of my co-workers were aware of this trick as a lot of them have near 30 years of experience an are no dummies so I thought I would pass this along.

Jimmie

From 3726931751711757088
X-Google-Thread: fcc6e,7a51964accdadcb,start
X-Google-Thread: 11480d,7a51964accdadcb,start
X-Google-Thread: 108122,7a51964accdadcb,start
X-Google-Thread: fc2a5,7a51964accdadcb,start
X-Google-Thread: 10b9c8,7a51964accdadcb,start
X-Google-Attributes:
gidfcc6e,gid11480d,gid108122,gidfc2a5,gid10b9c8,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!
newscon02.news.prodigy.net!prodigy.net!transit4.readnews.com!news-out.readnews.com!news-xxxfer.readnews.com!panix!panix2.panix.com!not-for-mail

From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1204873500@panix.com>
Followup-To: poster
Date: 7 Apr 2008 02:05:01 -0400
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 10 May 2008 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1207548301@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1207548302 19864 166.84.1.2 (7 Apr 2008 06:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 7 Apr 2008 06:05:02 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:56521 rec.radio.amateur.dx:3952
rec.radio.amateur.equipment:14206 rec.radio.amateur.homebrew:15452
rec.radio.info:744

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

From 7511801123532603174
X-Google-Thread: fc2a5,53d4e4da9a087fe5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Cable repair
Date: Tue, 08 Apr 2008 01:08:11 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.04.08.08.08.11.2086@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <47f9a9ff$0$1095$4c368faf@roadrunner.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 6
Organization: Octanews
NNTP-Posting-Date: 08 Apr 2008 03:08:11 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15453

Thanks for the tip!

I used a TDR in the shop. This is MUCH easier.

Cheers!

From 8875095501445066648
X-Google-Thread: fc2a5,53d4e4da9a087fe5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news1.google.com!postnews.google.com!n1g2000prb.googlegroups.com!not-for-mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cable repair
Date: Tue, 8 Apr 2008 11:08:30 -0700 (PDT)

```
Organization: http://groups.google.com
Lines: 26
Message-ID: <3e8ab734-7c72-46bf-89c3-730c4175f571@n1g2000prb.googlegroups.com>
References: <47f9a9ff$0$1095$4c368faf@roadrunner.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1207678111 29657 127.0.0.1 (8 Apr 2008 18:08:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 8 Apr 2008 18:08:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n1g2000prb.googlegroups.com; posting-host=207.200.116.11;
     posting-account=0Q4qJQoAAAB4vjIbnPnpY8JqAcYZv7Os
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
     SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
3.0.04506),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.5 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-ntc-tb05.proxy.aol.com[CFC87025] (Prism/1.2.1), HTTP/1.1
     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:15454

On Apr 6, 9:58=EF=BF=BDpm, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
> I had a backlog of a couple dozen patch cables to repair. Usually ony one
> end is damaged so I use the capacitance function on my multimeter to measu=
re
> the wire to wire capacitance from each end of the wire. When I find a wire=

> that reads near 0 capcitance compared to the others I know which wire it i=
s
> and which end it is on.. I was surprised none of my co-workers were aware =
of
> this trick as a lot of them have near 30 years of experience an are no
> dummies so I thought I would pass this along.
>
> Jimmie

I hate to say this, but if you want to measure continuity of a wire or
a coax center conductor, you use the OHMS function.  [sigh...]

The capacitance function on coax or shielded wire is good for
determining (approximately) where a break might have occurred.  That
is an old trick that's been around for at least 40 years, such as at
Rocketdyne's old Santa Susanna Field Test area where hundreds of
cables were used for rocket engine tests.

73, Len  AF6AY



From -7155937564852014894
X-Google-Thread: fc2a5,64218b443cb94261
```

```
X-Google-Thread: 107ada,64218b443cb94261
X-Google-Attributes: gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Reply-To: "Wim Ton" <wton@bluewin.ch>
From: "Wim Ton" <wton@bluewin.ch>
Newsgroups: rec.radio.amateur,rec.radio.amateur.homebrew,rec.radio.amateur.misc
References: <0001HW.C416A18A02E8435FB01AD9AF@news.sf.sbcglobal.net>
Subject: Re: Variable inductor, DIY?
Date: Tue, 8 Apr 2008 21:18:48 +0200
Lines: 15
Organization: thuis
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1437
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1441
NNTP-Posting-Host: 85.2.129.223
X-Original-NNTP-Posting-Host: 85.2.129.223
Message-ID: <47fbc3d3$1_7@news.bluewin.ch>
X-Trace: news.bluewin.ch 1207682003 85.2.129.223 (8 Apr 2008 21:13:23 +0200)
Complaints-To: abuse@bluewin.ch
X-Original-NNTP-Posting-Host: 127.0.0.1
Path: g2news1.google.com!news3.google.com!feeder.news-service.com!feeder.news-
service.com!newsfeed.freenet.de!solnet.ch!solnet.ch!news-zh.switch.ch!switch.ch!
news.ip-plus.net!newsfeed.ip-plus.net!news.bluewin.ch!not-for-mail
Xref: g2news1.google.com rec.radio.amateur.homebrew:15455
rec.radio.amateur.misc:43399


"Esther & Fester Bestertester" <not@me.really> wrote in message
news:0001HW.C416A18A02E8435FB01AD9AF@news.sf.sbcglobal.net...
> I'd like to build a variable inductor with what I have around my shop
(lots
> of bits n' pieces, but no cores). I need it to work in the area of 20-30
mH,
> 1A, 25-30 KHz.

How about using a very low-ohmic wire-wound pot? OK. Q will not be
brilliant, but in these applications you may get away with it

Wim





From 5926899867208881734
X-Google-Thread: fc2a5,64218b443cb94261
X-Google-Thread: 107ada,64218b443cb94261
X-Google-Attributes: gidfc2a5,gid107ada,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news2.google.com!news.glorb.com!
news.ecp.fr!club-internet.fr!feedme-small.clubint.net!newsfeed.xs4all.nl!
newsfeed3.news.xs4all.nl!xs4all!border2.nntp.ams.giganews.com!nntp.giganews.com!
amsnews11.chello.com!newsfeeder.wxs.nl!divide.nova.planet.nl!
```

```
posting.nova.planet.nl!not-for-mail
Date: Tue, 08 Apr 2008 21:37:43 +0200
From: Sjouke Burry <burrynulnulfour@ppllaanneett.nnlll>
Organization: retired
User-Agent: Thunderbird 2.0.0.12 (Windows/20080213)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: Variable inductor, DIY?
References: <0001HW.C416A18A02E8435FB01AD9AF@news.sf.sbcglobal.net>
In-Reply-To: <0001HW.C416A18A02E8435FB01AD9AF@news.sf.sbcglobal.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 14
Message-ID: <47fbc987$0$7187$ba620dc5@text.nova.planet.nl>
NNTP-Posting-Host: 84.80.235.244
X-Trace: 1207683463 text.nova.planet.nl 7187 84.80.235.244:51928
X-Complaints-To: abuse@planet.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:15456
rec.radio.amateur.misc:43402

Esther & Fester Bestertester wrote:
> I'd like to build a variable inductor with what I have around my shop (lots
> of bits n' pieces, but no cores). I need it to work in the area of 20-30 mH,
> 1A, 25-30 KHz.
>
> Is this something do-able? Is there something available off-the-shelf?
>
> Suggestions of how to go about it would be greatly appreciated.
>
> FBt
>
Take a transformer with sufficient mH, and use a constant current
on one of the unused windings to saturate the iron core to reduce
the mH rating.


From 66123519693680442
X-Google-Thread: fc2a5,53d4e4da9a087fe5
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
newsgate.cistron.nl!newsfeed.xs4all.nl!newsfeed2.news.xs4all.nl!xs4all!
ramfeed1.eweka.nl!eweka.nl!hq-usenetpeers.eweka.nl!68.142.88.75.MISMATCH!
hwmnpeer01.ams!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe17.lga.POSTED!53ab2750!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <47f9a9ff$0$1095$4c368faf@roadrunner.com>
Subject: Re: Cable repair
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
```

```
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <79QKj.5023$3N1.3739@newsfe17.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe17.lga 1207684803 72.209.25.33 (Tue, 08 Apr 2008 13:00:03 MST)
NNTP-Posting-Date: Tue, 08 Apr 2008 13:00:03 MST
Organization: Cox
Date: Tue, 8 Apr 2008 16:00:00 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:15457
```

"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
news:47f9a9ff$0$1095$4c368faf@roadrunner.com...

>I had a backlog of a couple dozen patch cables to repair. Usually ony one
>end is damaged so I use the capacitance function on my multimeter to
>measure the wire to wire capacitance from each end of the wire. >
>
> Jimmie

Good suggestion.

>

```
From -6372563614758811296
X-Google-Thread: fc2a5,9afbb7c89b9b0f4f,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
news.cv.net!not-for-mail
From: "Rick" <ricknj10@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 100 watt Kenwood PA vs homebrewing
Date: Wed, 9 Apr 2008 17:23:56 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 11
Message-ID: <47fd340c$0$15195$607ed4bc@cv.net>
Organization: Optimum Online
NNTP-Posting-Host: 67.82.179.222
X-Complaints-To: abuse@cv.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15458
```

If you are thinking of a brick for your QRP rig how's this for an idea?
Instead of homebrewing one up why not get one that is already assembled and

working? A lot less work. I am parting out a Kenwood TS120 that is not easily repairable because of a broken bandswitch. I broke the bandswitch while cleaning it and have decided to just part out the rig. You can have the PA section complete for $60.

Rick
k2xt@arrl.net

From 6319955232943707969
X-Google-Thread: fc2a5,5aa0c595d4ccf587,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.cv.net!not-for-mail
From: "Rick" <ricknj10@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Kenwood VFO vs homebrew
Date: Wed, 9 Apr 2008 17:26:17 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 9
Message-ID: <47fd3499$0$15202$607ed4bc@cv.net>
Organization: Optimum Online
NNTP-Posting-Host: 67.82.179.222
X-Complaints-To: abuse@cv.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15459

I know this is a homebrew newsgroup so how's this idea? For your next homebrew rig how'd you like to have a nice stable, calibrated VFO to drop into it? Right out of a Kenwood TS-120 that is being parted out. $40 and it's yours.

Rick
k2xt@arrl.net

From 476618209954954234
X-Google-Thread: fc2a5,9afbb7c89b9b0f4f
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 09 Apr 2008 16:52:25 -0500

Date: Wed, 09 Apr 2008 22:52:59 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 100 watt Kenwood PA vs homebrewing
References: <47fd340c$0$15195$607ed4bc@cv.net>
In-Reply-To: <47fd340c$0$15195$607ed4bc@cv.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <U6qdnfmVlrAEp2Da4p2dnAA@pipex.net>
Lines: 14
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 85.210.108.126
X-Trace: sv3-A3bL7xRuiH12v54Jwl+LGGC9WFtsBbPXvXaL15fNoGIIiO/
0gSHh+bd83YMQL6BhQBtzdW19fqJx4an!
unKtu67DMBYwJR3+L1gxShW7OueVhDRHI1IREZoYq8wRCmaleW474aVJeoO1+y7dBzDv8L9xOs+r!
OIBkkmYBVINlWGQ=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com rec.radio.amateur.homebrew:15460

Rick wrote:
> If you are thinking of a brick for your QRP rig how's this for an idea?
> Instead of homebrewing one up why not get one that is already assembled and
> working? A lot less work. I am parting out a Kenwood TS120 that is not
> easily repairable because of a broken bandswitch. I broke the bandswitch
> while cleaning it and have decided to just part out the rig. You can have
> the PA section complete for $60.
>
> Rick
> k2xt@arrl.net

==============================
Rick , why not offering a non-working Kenwood TS120 for $100.- or less ?

Frank   GM0CSZ/KN6WH

From -8777730646374881552
X-Google-Thread: fc2a5,bfdfaf38748a6229,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!wn14feed!
worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: TAYLOR, BUD, JOHNSON + 32V-3 PART
Lines: 8
X-Priority: 3

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <zAdLj.84529$D_3.46328@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: 7b4980141ef8f5af778be576305edc1a
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1207788959
7b4980141ef8f5af778be576305edc1a (Thu, 10 Apr 2008 00:55:59 GMT)
NNTP-Posting-Date: Thu, 10 Apr 2008 00:55:59 GMT
Organization: AT&T Worldnet
Date: Thu, 10 Apr 2008 00:55:59 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15461

JUST LISTED: ANTIQUE BUD, JOHNSON, AND TAYLOR TUBE CATALOGS + COLLINS
32V-3 AC POWER COVER; see at:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

MO COMING SOON: heytubeguy

From -2403677488488031358
X-Google-Thread: fc2a5,5aa0c595d4ccf587
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.acm.uiuc.edu!
news.xcski.com!ncf.ca!not-for-mail
From: Michael Black <et472@ncf.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood VFO vs homebrew
Date: Thu, 10 Apr 2008 11:44:01 -0400
Organization: National Capital Freenet, Ottawa, Ontario, Canada
Lines: 25
Sender: et472@72.0.192.106
Message-ID: <Pine.LNX.4.64.0804101141580.15675@darkstar.example.org>
References: <47fd3499$0$15202$607ed4bc@cv.net>
NNTP-Posting-Host: 72.0.192.106
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: theodyn.ncf.ca 1207842377 22727 72.0.192.106 (10 Apr 2008 15:46:17 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 10 Apr 2008 15:46:17 GMT
In-Reply-To: <47fd3499$0$15202$607ed4bc@cv.net>
Xref: g2news1.google.com rec.radio.amateur.homebrew:15462

On Wed, 9 Apr 2008, Rick wrote:

> I know this is a homebrew newsgroup so how's this idea? For your next
> homebrew rig how'd you like to have a nice stable, calibrated VFO to drop
> into it? Right out of a Kenwood TS-120 that is being parted out. $40 and

> it's yours.
>
WHat you've missed is that this isn't a forsale newsgroup.

You've not come here to discuss an idea, you've come to try to sell
something.

ANd you can't even do it properly, instead you try to sneak it in
as if you are starting discussion.

Not once, but twice.

Take your junk elsewhere.

Unless you actually want to discuss using commercial modules
in otherwise home made equipment, in which case you should have
started with that instead of your ads.

   Michael VE2BVW

From 1538039985433246180
X-Google-Thread: fc2a5,5aa0c595d4ccf587
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
news.cv.net!not-for-mail
From: "Rick" <ricknj10@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <47fd3499$0$15202$607ed4bc@cv.net>
<Pine.LNX.4.64.0804101141580.15675@darkstar.example.org>
Subject: Re: Kenwood VFO vs homebrew
Date: Thu, 10 Apr 2008 12:03:51 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Lines: 9
Message-ID: <47fe3afa$0$15203$607ed4bc@cv.net>
Organization: Optimum Online
NNTP-Posting-Host: 67.82.179.222
X-Complaints-To: abuse@cv.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15463

> Take your junk elsewhere.
You are absolutely correct.
If I had a way to cancel my posting I would.
My deepest apologies to you and the group.

Rick

```
From -9203323037234244327
X-Google-Thread: fc2a5,5aa0c595d4ccf587
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.cpinternet!
news.cpinternet.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 10 Apr 2008 11:08:00 -0500
Date: Thu, 10 Apr 2008 12:09:15 -0500
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood VFO vs homebrew
References: <47fd3499$0$15202$607ed4bc@cv.net>
<Pine.LNX.4.64.0804101141580.15675@darkstar.example.org>
In-Reply-To: <Pine.LNX.4.64.0804101141580.15675@darkstar.example.org>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <nLWdnUc8n7v9pmPanZ2dnUVZ_vXinZ2d@cpinternet>
Lines: 13
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.251.177.106
X-AuthenticatedUsername: NoAuthUser
X-Trace: sv3-j4lye+h7RbK76VgBUNO4o6vqVuhzpnpboXPl4jMJiTyO9vbWKaV/
GDvn7jbQw+sWZVsnwz7QFvfwpue!cODjHPhb/
yIS6bplCK6Dg3GxAPxRTcBxB6fk6ys7bnxHmpFfDxoKm3m0wkkAnZm9sGnjW2YW4LQw!sBJIr27P9AZD
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com rec.radio.amateur.homebrew:15464
```

Michael Black wrote:

<snip>

> Take your junk elsewhere.
>
> Unless you actually want to discuss using commercial modules
> in otherwise home made equipment, in which case you should have
> started with that instead of your ads.

How do you feel about the repetitive FA and FS posts from
'Heytubeguy'? No one ever comments about them...

Michael

From -6512281514716711380
X-Google-Thread: fc2a5,5aa0c595d4ccf587
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
news.cv.net!not-for-mail
From: "Rick" <ricknj10@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <47fd3499$0$15202$607ed4bc@cv.net>
<Pine.LNX.4.64.0804101141580.15675@darkstar.example.org>
<nLWdnUc8n7v9pmPanZ2dnUVZ_vXinZ2d@cpinternet>
Subject: Re: Kenwood VFO vs homebrew
Date: Thu, 10 Apr 2008 13:28:31 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Lines: 14
Message-ID: <47fe4e5f$0$15162$607ed4bc@cv.net>
Organization: Optimum Online
NNTP-Posting-Host: 67.82.179.222
X-Complaints-To: abuse@cv.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15465

.
>
> How do you feel about the repetitive [snip]
> Michael

Michael, let's keep it to discussions about homebrew, ok? I gave in, I
apologised to you.
Let's not let this fine newsgroup degenerate into a pissing and moaning
forum. You made
your point already.

Rick K2XT

From -4255914412945746163
X-Google-Thread: fc2a5,5aa0c595d4ccf587
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.cpinternet!
news.cpinternet.POSTED!not-for-mail

```
NNTP-Posting-Date: Thu, 10 Apr 2008 12:46:24 -0500
Date: Thu, 10 Apr 2008 13:47:40 -0500
From: msg <msg@_cybertheque.org_>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood VFO vs homebrew
References: <47fd3499$0$15202$607ed4bc@cv.net>
<Pine.LNX.4.64.0804101141580.15675@darkstar.example.org>
<nLWdnUc8n7v9pmPanZ2dnUVZ_vXinZ2d@cpinternet> <47fe4e5f$0$15162$607ed4bc@cv.net>
In-Reply-To: <47fe4e5f$0$15162$607ed4bc@cv.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <f66dnRoDDYXtz2PanZ2dnUVZ_qvinZ2d@cpinternet>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.251.177.106
X-AuthenticatedUsername: NoAuthUser
X-Trace: sv3-wxmRPg+qLiFEcwVuehEMb/
Wz9+q1cLrxppK9nQAMo2qGz572JrCWfdbRJc0n2oxDLGVcniWtkYFWU3B!kAP6gAPkExlSPoVeM/
BlLEB6TD3TyYTE+DZ2N9j7N3cbJ6BANVGG6NunXChiF+8JuisP9yibaHTb!fB/cq8cRhp0T
X-Complaints-To: abuse@cpinternet.com
X-DMCA-Complaints-To: abuse@cpinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.39
Xref: g2news1.google.com rec.radio.amateur.homebrew:15466
```

Rick wrote:

> .
>
>>How do you feel about the repetitive [snip]
>>Michael
>
>
> Michael, let's keep it to discussions about homebrew, ok? I gave in, I
> apologised to you.
> Let's not let this fine newsgroup degenerate into a pissing and moaning
> forum. You made
> your point already.
>
> Rick K2XT
>
>

Please check the headers; I am not the respondent to your last post. I
was addressing _my_ post to Michael Black.

Regards,

```
Michael G.



From -8927061115024009678
X-Google-Thread: fc2a5,5aa0c595d4ccf587
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood VFO vs homebrew
Date: 10 Apr 2008 22:36:32 GMT
Lines: 16
Message-ID: <slrnfvt5jg.26e4.bit-bucket@shell.config.com>
References: <47fd3499$0$15202$607ed4bc@cv.net>
<Pine.LNX.4.64.0804101141580.15675@darkstar.example.org>
<nLWdnUc8n7v9pmPanZ2dnUVZ_vXinZ2d@cpinternet>
X-Trace: individual.net +G3zq0Ld2GIgymEaf37AtQUGiAwr/FxhmAatXEaIOCs145DzF4
Cancel-Lock: sha1:TqhiGLhn4Xe4oL8YiVOmIq6LpcM=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15467

On Thu, 10 Apr 2008 12:09:15 -0500, msg wrote:
> Michael Black wrote:
>
><snip>
>> Take your junk elsewhere.
>>
>> Unless you actually want to discuss using commercial modules
>> in otherwise home made equipment, in which case you should have
>> started with that instead of your ads.
>
> How do you feel about the repetitive FA and FS posts from
> 'Heytubeguy'? No one ever comments about them...

I probably would, except my KILLFILE is taking care of _those_ quite
nicely.  I never see'em.




From 8872825572822925555
X-Google-Thread: fc2a5,8682dca16fa518dc,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
8g2000hse.googlegroups.com!not-for-mail
From: fazamy <fazamy@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Availability of headset mic with RJ45 plug and 3.5mm plug for a
     Kenwood?
Date: Fri, 11 Apr 2008 06:46:28 -0700 (PDT)
```

```
Organization: http://groups.google.com
Lines: 12
Message-ID: <40487228-6044-41ef-b690-382bd6afe971@8g2000hse.googlegroups.com>
NNTP-Posting-Host: 205.188.116.198
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1207921588 20476 127.0.0.1 (11 Apr 2008 13:46:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 11 Apr 2008 13:46:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 8g2000hse.googlegroups.com; posting-host=205.188.116.198;
     posting-account=fhjp8woAAACjooYbCZGv8loJZMngOnKX
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 5.1;
     .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-dtc-tb08.proxy.aol.com[CDBC7028] (Prism/1.2.1), HTTP/1.1
     cache-dtc-ad04.proxy.aol.com[CDBC74C6] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:15468

For easier ssb contesting, I want to be able to use a headset mic.  My
headset mic has 2  mini stereo plugs one for a mic input and the other
for speaker output.  My rig has a RJ45 jack on the front panel for a
mic input and a 3.5mm jack for audio outpput.
Is there a commercially available adapter cable that will allow me to
use my headset mic? --An adapter cable that can permit a 3.5mm to RJ45
mic input.  Or is there a headset mic that has a RJ45 plug and a 35mm
plug?

Thanks.

KB2AMY


From -5299989920934324950
X-Google-Thread: fc2a5,8682dca16fa518dc
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 11 Apr 2008 16:56:08 -0500
Date: Fri, 11 Apr 2008 22:56:51 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Availability of headset mic with RJ45 plug and 3.5mm plug for
 a  Kenwood?
References: <40487228-6044-41ef-b690-382bd6afe971@8g2000hse.googlegroups.com>
In-Reply-To: <40487228-6044-41ef-b690-382bd6afe971@8g2000hse.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
```

Content-Transfer-Encoding: 7bit
Message-ID: <J5WdnT_ESNjlQ2LanZ2dnUVZ8tmhnZ2d@pipex.net>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.64.66
X-Trace: sv3-
GsM7CmngkTadU7YuZz7TKXc9SbL5OxGUEdb1DNZrP0A4MGx2NCY6fcKF+B9GDGTypHh6H+NotX3gddx!
8wXPkBZUNB6JI6LzgRUptGGVjGmulr6k76HBlO0i1sUwlMsLfGhURfxd71H2Oujx7+lrAvYdAZXq!
xX0zPhLF9pAI6fPkNpwE4AJn
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com rec.radio.amateur.homebrew:15469

fazamy wrote:
> For easier ssb contesting, I want to be able to use a headset mic. My
> headset mic has 2 mini stereo plugs one for a mic input and the other
> for speaker output. My rig has a RJ45 jack on the front panel for a
> mic input and a 3.5mm jack for audio outpput.
> Is there a commercially available adapter cable that will allow me to
> use my headset mic? --An adapter cable that can permit a 3.5mm to RJ45
> mic input. Or is there a headset mic that has a RJ45 plug and a 35mm
> plug?

===
RJ45 plug (8 fingers)is the same as the one used for ethernet
connections. So get a short ethernet cable with 2 fitted RJ45
connectors ,cut-off 1 RJ45 connector + a piece of cable ,leaving a short
piece of cable and a RJ45 connector.
and fit on 2 of the 8 wires a mini stereo socket.
Your transceiver manual/circuit diagramme should show which 2 of the 8
wires are to be connected to the microphone . You should also be able to
find the 2 wires for PTT.

Just today I was shown a Yaesu transceiver with a microphone having a
RJ45 connector for the microphone ,PTT and freq up & down push buttons.
An ethernet cable plug fitted nicely in the transceiver's socket.

Frank   GM0CSZ / KN6WH

From -2312391817031765647
X-Google-Thread: fc2a5,3b41cd65fc8787a
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!y21g2000hsf.googlegroups.com!not-for-
mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Inductors in nH
Date: Fri, 11 Apr 2008 17:44:05 -0700 (PDT)

```
Organization: http://groups.google.com
Lines: 17
Message-ID: <5e7b8f54-ae2a-4fb1-b7d9-964c10144f28@y21g2000hsf.googlegroups.com>
References: <72548d31-4558-4d7e-ad8c-e3e2ad0ac53f@e10g2000prf.googlegroups.com>
     <0ad015e3-f5ba-4e28-ba07-34f61cf5f7b0@r9g2000prd.googlegroups.com>
     <duadnW87N8fiJmna4p2dnAA@pipex.net>
NNTP-Posting-Host: 142.162.129.19
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1207961046 8805 127.0.0.1 (12 Apr 2008 00:44:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 12 Apr 2008 00:44:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y21g2000hsf.googlegroups.com; posting-host=142.162.129.19;
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15470

On Apr 3, 9:12=A0am, Highland Ham <abcgm0csz.kn6wh...@dsl.pipex.com>
wrote:
> K7ITM wrote:
> > A good web site for calculating the inductance of a cylindrical helix
> > ishttp://hamwaves.com/antennas/inductance.html. =A0There's an
> > inductance calculator for cylindrical helix coils and toroid coils in
> > the RFSim99 package which you should be able to find for free
> > download. =A0It may well be useful to you for other things, too.
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
> Tnx Tom for the above 'excellent' comprehensive web site reference.
>
> Frank =A0GM0CSZ / KN6WH

Toilet paper cores; kitchen paper towel cores etc.
Wooden dowel rods.
Even cardboard boxes or a plastic bottle or container.


From 2023721361645875895
X-Google-Thread: f849b,85f81511afa1df8a
X-Google-Thread: fc2a5,85f81511afa1df8a
X-Google-Attributes: gidf849b,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.16.185.51.MISMATCH!tmp-post01.iad!news.highwinds-media.com!roadrunner.com!not-
for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: comp.arch.embedded,rec.radio.amateur.homebrew
References: <78ednUcEOqONq2zanZ2dnUVZ_qygnZ2d@cpinternet>
<cZqIj.183$Qx5.54@read4.inet.fi>
```

```
Subject: Re: Sheet-beam tubes (6ar8, 7360, etc) as analog multipliers
Date: Sat, 12 Apr 2008 14:28:08 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Lines: 20
Message-ID: <4800ff37$0$25925$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 75.191.181.199
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com comp.arch.embedded:67166 rec.radio.amateur.homebrew:15471
```

> Just a memory from tens of years ago:
>
> The 7360 made a decent balanced modulator, but it is,
> by definition, extremely sensitive for external electric
> and magnetic fields.
>
> --
>
> Tauno Voipio (OH2UG)
> tauno voipio (at) iki fi

You just answered a problem thats had been nagging me for over 30 years.
Now I know why the SSB transmitter I built had such an annoying hum in it.

I never thought about it being affected by a magnetic field.

Jimmie

```
From -4510410878054835072
X-Google-Thread: f849b,85f81511afa1df8a
X-Google-Thread: fc2a5,85f81511afa1df8a
X-Google-Attributes: gidf849b,gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 12 Apr 2008 14:34:35 -0500
Date: Sat, 12 Apr 2008 20:35:13 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.12 (X11/20080306)
MIME-Version: 1.0
Newsgroups: comp.arch.embedded,rec.radio.amateur.homebrew
Subject: Re: Sheet-beam tubes (6ar8, 7360, etc) as analog multipliers
References: <78ednUcEOqONq2zanZ2dnUVZ_qygnZ2d@cpinternet>
<cZqIj.183$Qx5.54@read4.inet.fi> <4800ff37$0$25925$4c368faf@roadrunner.com>
```

```
In-Reply-To: <4800ff37$0$25925$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <TvCdnS5biI9Wk5zVnZ2dnUVZ8s-qnZ2d@pipex.net>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.64.66
X-Trace: sv3-
dsWDf6ZGyqoR9OZ2f7mStwEFfScV762LuutxTEki663YYV8EIZr9DT+heIY+OWrCx+O3qFtvT80H+iG!
IqvFauSiby8L6ZHA6SazIy++THuMpyJvpYvj7RlYaCGOayf1t3232Avbh7dLlECoce6t+1HlRMeF!
FC4qEKMPBFOIyzN5Ru328F8I
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.38
Xref: g2news1.google.com comp.arch.embedded:67170 rec.radio.amateur.homebrew:15472

Jimmie D wrote:
>> Just a memory from tens of years ago:
>>
>> The 7360 made a decent balanced modulator, but it is,
>> by definition, extremely sensitive for external electric
>> and magnetic fields.
>>
>> --
>>
>> Tauno Voipio (OH2UG)
>> tauno voipio (at) iki fi
>
> You just answered a problem thats had been nagging me for over 30 years.
> Now I know why the SSB transmitter I built had such an annoying hum in it.
>
> I never thought about it being affected by a magnetic field.
=========================================
For that reason in 1970s transceivers like Yaesu FT-400/401 the 7360
used as balanced modulator was 'packed' in a tight metal screen bonded
to chassis.

Frank   GM0CSZ / KN6WH



From -5689350563609324219
X-Google-Thread: fc2a5,6102d187d4714fbe,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
y21g2000hsf.googlegroups.com!not-for-mail
From: Vintage <radiovintage2000@yahoo.it>
Newsgroups: rec.radio.amateur.homebrew
Subject: Vaccum tube made in FIVRE
Date: Sun, 13 Apr 2008 02:31:47 -0700 (PDT)
```

```
Organization: http://groups.google.com
Lines: 9
Message-ID: <8115454e-4236-4657-817d-cb5adde7a22b@y21g2000hsf.googlegroups.com>
NNTP-Posting-Host: 87.7.217.84
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1208079107 17457 127.0.0.1 (13 Apr 2008 09:31:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 13 Apr 2008 09:31:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y21g2000hsf.googlegroups.com; posting-host=87.7.217.84;
     posting-account=RipOkAoAAAB32s8w43jyZFhxuNS9HKXD
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15473
```

Hallo Members

I search of information and characteristics of the F30 tube made in
FIVRE .
Thank to All Frank

e-mail : radiovintage2000@yahoo.it

```
From -4768394083021915003
X-Google-Thread: fc2a5,626b0b4fdedcb244,start
X-Google-Attributes: gidfc2a5,domainid0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!b9g2000prh.googlegroups.com!not-for-
mail
From: ebayshoe@yahoo.cn
Newsgroups: rec.radio.amateur.homebrew
Subject: cheap wholesale prada shoes gucci shoes lacoste shoes dunk shoes puma
     shoes air force one shoes
Date: Sun, 13 Apr 2008 06:59:35 -0700 (PDT)
Organization: http://groups.google.com
Lines: 138
Message-ID: <41a58248-a837-4b53-93cd-dbbbf6db2af7@b9g2000prh.googlegroups.com>
NNTP-Posting-Host: 121.205.201.240
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1208095176 14333 127.0.0.1 (13 Apr 2008 13:59:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 13 Apr 2008 13:59:36 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b9g2000prh.googlegroups.com; posting-host=121.205.201.240;
     posting-account=qS7DOAoAAADfT0mYW_2q3sz-ESwM9WNy
```

User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; QQDownload 1.7),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15474

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We Wholesale Cheap Jordan Shoes, Michael Jordan Shoes, Nike Jordan Basketball shoes, ... Jordan Shoes, Air Jordan Sneakers, Air Jordan Wholesale All of the Air Jordan sneakers have Nike Air in the shoes. Authentic quality Jordan Sneakers Custom Jordan Sneakers Wholesale Jordan Sneakers gucci sneakers prada sneakers,lv chanel coach dior DG DSQUARED2 DIESEL,miumiu handbags sneakers,t-shirts,jeans,jackets.We sale new Nike Sneakers,Air Jordan Sneakers,AIR FORCE 1S,Nike Dunks SB,
Bape Sta from nike outlets and factory stores, also Nike wholesale - Jordan Shoes. Nike Shoes, sport Shoes, Reebok Shoes,Basketball Shoes,prada,bapestar,Nike Shox,Dunks,Nike Flightposite ,Nike jordan Basketball ,K1X Chiefglider wholesale suppliers factory.We sale new Nike Sneakers,Air Jordan Sneakers,AIR FORCE 1S,Nike Dunks SB, Bape Sta
from nike Wholesale china nike jordans gucci prada sneakers at cheap price !!!

cheap gucci,prada dsquared2 sneakers wholesale

lacoste outlet
Max 90 Sneakers
wholesale Nike Air Max 91 Supplier
wholesale Nike Air Max 95 Shoes Supplier
wholesale Nike Air Max 97 Trainers
wholesale Nike Air Max 2003 Wholesale
wholesale Nike Air Max 2004 Shoes Wholesale
wholesale Nike Air Max 2005 Shop
wholesale Nike Air Max 2006 Shoes Shop
wholesale Nike Air Max 360 Catalogs
wholesale Nike Air Max Ltd Shoes Catalogs
wholesale Nike Air Max Tn Men's Shoes
wholesale Nike Air Max Tn 2 Women's Shoes
wholesale Nike Air Max Tn 3 Customize
wholesale Nike Air Max Tn 4 Shoes Customize
wholesale Nike Air Max Tn 6 Supply
wholesale Nike Shox NZ Shoes Supply
wholesale Nike Shox OZ Sale
wholesale Nike Shox TL Store
wholesale Nike Shox TL 2 Shoes Store
wholesale Nike Shox TL 3 Distributor
wholesale Nike Shox Bmw Shoes Distributor
wholesale Nike Shox Elite Shoes Manufacturer
wholesale Nike Shox Monster Manufacturer
wholesale Nike Shox R4 Running Shoes
wholesale Nike Shox R5 Mens Shoes
wholesale Nike Shox Ride Womens Shoes

wholesale Nike Shox Rival Shoes Wholesaler
wholesale Nike Shox Energia Wholesaler
wholesale Nike Shox LV Sneaker
wholesale Nike Shox Turbo Suppliers
wholesale Nike Shox Classic Shoes Suppliers
wholesale Nike Shox Dendara Trainer
wholesale Nike Air Jordan 1 Seller
wholesale Nike Air Jordan 2 Shoes Seller
wholesale Nike Air Jordan 3 Collection
wholesale Nike Air Jordan 4 Shoes Collection
wholesale Nike Air Jordan 5 Chaussure Shoes
wholesale Nike Air Jordan 6 Catalog
wholesale Nike Air Jordan 7 Shoes Catalog
wholesale Nike Air Jordan 8 Customized
wholesale Nike Air Jordan 9 Shoes Customized
wholesale Nike Air Jordan 10 Wholesalers
wholesale Nike Jordan 11 Shoes Wholesalers
wholesale Nike Air Jordan 12 Factory
wholesale Nike Air Jordan 13 Shoes Factory
wholesale Nike Air Jordan 14 Shoes Sell
wholesale Nike Air Jordan 16 Exporter
wholesale Nike Air Jordan 17 Shoes Exporter
wholesale Nike Air Jordan 18 Offer
wholesale Nike Air Jordan 19 Shoes Offer
wholesale Nike Air Jordan 20 Manufacture
wholesale Nike Jordan 21 Shoes Manufacture
wholesale Nike Air Force 1 Low Directory
wholesale Air Force 1 High Shoes Directory
wholesale Nike Air Force 1 Custom Importer
wholesale Air Force 1 Dollar Shoes Importer
wholesale Nike Air Force 1 Clear Sales
wholesale Air Force 1 Carving Shoes Sales
wholesale Timberland Boots High Offers
wholesale Timberland Boots Low Sell
wholesale Timberland Boots Mid Shoes Buyer
wholesale Timberland Boots Womens Buyer
wholesale Adidas Good Year Buy
wholesale Adidas Running Shoes Buy
wholesale Adidas Football Shoes Selection
wholesale Adidas Basketball Shoes Discount
wholesale Adidas 35 Years 35th Anniversary
wholesale Adidas T MAC 3.5 4.5 5 6
wholesale Adidas 35 Years 35th Anniversary
Jordans Wholesale
Cheap Jordans Wholesale
Jordans Retro Wholesale
Air Jordans Wholesale
Nike Shoes Wholesale China
Discount Jordans Price Wholesale
Wholesale Nike Distributor
Wholesale Nike Sneaker
Wholesale Nike Air Force 1
Air Clear Force One Wholesale

Nike Air Force Wholesale
Buy Jordans Wholesale
Wholesale Nike Tennis Shoes
Jordans Retro Wholesale
Wholesale Kid Jordans
Wholesale Nike Dunk
Authentic Jordans Wholesale
Nike Shoes Wholesale China
Wholesale Custom Jordans
Air China Jordans Wholesale
Jordans Retro Wholesale
Nike Air Jordan Wholesale
Nike Golf Wholesale
Wholesale Jordans
Wholesale Nike Shox
Wholesale Basketball Shoes Nike
Air Jordans Price Wholesale
Jordans Kid Wholesale
Wholesale Air Force One And Jordans
Jordans Shoes Wholesale
Wholesale Air Jordans
Air Jordans At Wholesale Price
Wholesale Nike Tennis Shoes
Wholesale NIKE Sneakers from our Nike factory to Nike shop & Nike
store,sale and Wholesale all of Nike stock Shoes,we have many type of
NIKE Sneakers :Nike discount Shoes,Nike cheap Shoes,Nike stock Shoes
(Nike Trainers, Nike Sneakers,Nike Running Shoes,Nike Basketball
Shoes,Nike Discount Shoes,Nike Cheap Shoes,footwear, Sports
Shoes)Nike Shoes Wholesale sizes include:Nike men's Shoes,Nike
women's Shoes,Nike mens Shoes,Nike womens Shoes, Nike men Shoes,Nike
women Shoes,Nike kids Shoes, Nike child Shoes.Nike discount
Shoes,Nike in www.china-sneakers.com
cheap Shoes,china Nike Shoes,Nike Shoes Wholesale,Jordan SHOES,Air
Force one 1s,Nike Shox,Nike shoe Air max wholesale price.china
wholesale sneakers Nike celebrates 25 birthday of Air Force Ones BUY
SELL NIKE SHOX JORDAN MAX TIMBERLAND AIR FORCE PRADA TN PUMA.
in www.china-sneakers.com

From 2269048052065980343
X-Google-Thread: fc2a5,8145cd050eab5ccd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Date: Sun, 16 Mar 2008 03:13:49 +0000
From: Gerry <breakeronthesideletitslide@yahoo.co.uk>
Reply-To: breakeronthesideletitslide@yahoo.co.uk
User-Agent: Thunderbird 2.0.0.12 (Windows/20080213)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 4CX1500B Plate Voltages SSB/CW-RTTY
References: <fhgot3tqj4jcmqp38eqfi19knt0f5vi3r1@4ax.com>
In-Reply-To: <fhgot3tqj4jcmqp38eqfi19knt0f5vi3r1@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed

Content-Transfer-Encoding: 7bit
Message-ID: <47dc9068$1_4@mk-nntp-2.news.uk.tiscali.com>
Lines: 25
X-Original-NNTP-Posting-Host: 79.75.216.61
NNTP-Posting-Host: mk-nntp-2.news.uk.tiscali.com
X-Trace: 16 Mar 2008 03:13:47 GMT, mk-nntp-2.news.uk.tiscali.com
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
newsfeed1.ip.tiscali.net!tiscali!newsfeed2.ip.tiscali.net!212.74.112.120.MISMATCH!
mk-nntp-1.news.uk.tiscali.com!mk-nntp-2.news.uk.tiscali.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15325

Jim wrote:
> Can anyone tell me what are the normal plate voltages
> used on this tube in the two modes? I'm trying to figure out
> what plate transformer to look for or try to cobble up?
>
> I've googled lots of these amplifiers but see no mention
> of CW/RTTY mode voltages/currents. It looks like about
> 3000V on SSB but see not mention of other modes. My SB220
> had a tap on primary at the SQR2 point to switch modes,
> would that be the same for this tube? What would be good
> parameters for CW/RTTY operation?
>
> Thanks.
>
> WA5DXP
>
>

You should be OK with 3KV on the anode + 350V on G2 , de-rating for RTTY
will depend more on the amount of cooling air and PSU. Watch the grid
current as it's only rated at 1W max.

Have a look at care and feeding of power grid tubes on the CPI site
(they own Eimac), http://www.cpii.com/library.cfm/9 .

Gerry....

From 8007498769396627947
X-Google-Thread: fc8b1,8341521e01935dd7
X-Google-Thread: 10c2ee,8341521e01935dd7
X-Google-Thread: fc2a5,8341521e01935dd7
X-Google-Thread: 112d1e,8341521e01935dd7
X-Google-Attributes: gidfc8b1,gid10c2ee,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-05!sn-xt-sjc-09!sn-post-
sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Robert Baer <robertbaer@localnet.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.antiques.radio+phono,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Re: Sylvania R1131C octal tube ?
Date: Sat, 15 Mar 2008 20:20:05 -0800

```
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13tp4egkuf3sb69@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax;nscd1)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>
In-Reply-To: <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 11
Xref: g2news1.google.com rec.radio.amateur.boatanchors:14325
rec.antiques.radio+phono:94722 rec.radio.amateur.homebrew:15326
sci.electronics.design:326656
```

Henry Kolesnik wrote:

> I got a couple of the subject tubes which are supposed to be "glow
> modulator tubes". Best I can determine is that the light output will
> vary with current but I can't find data sheet googling. If anyone has
> pinout and/or data I'd sure like to see it. I think it might be a mid
> 1960s item as my 1957 Sylvania manual doesn't show it.
> thanks
>

I have a Sylania Technical Manual of tube data sheets dated 1959 and have the blue add-ons to 1960, and that tube is not listed anywhere in it.

Sorry.

```
From -2100315889941044746
X-Google-Thread: fc8b1,8341521e01935dd7
X-Google-Thread: 10c2ee,8341521e01935dd7
X-Google-Thread: fc2a5,8341521e01935dd7
X-Google-Thread: 112d1e,8341521e01935dd7
X-Google-Attributes: gidfc8b1,gid10c2ee,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc07.POSTED!846d79a6!
not-for-mail
From: "Mike Schultz" <mls2004@SPAMSPAMSPAMverizon.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.antiques.radio+phono,rec.radio.amateur.homebrew,
sci.electronics.design
References: <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>
Subject: Re: Sylvania R1131C octal tube ?
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <Ko7Dj.8326$Id3.6502@trnddc07>
```

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Date: Sun, 16 Mar 2008 11:21:14 GMT
NNTP-Posting-Host: 71.242.37.157
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc07 1205666474 71.242.37.157 (Sun, 16 Mar 2008 07:21:14 EDT)
NNTP-Posting-Date: Sun, 16 Mar 2008 07:21:14 EDT
Xref: g2news1.google.com rec.radio.amateur.boatanchors:14327
rec.antiques.radio+phono:94730 rec.radio.amateur.homebrew:15327
sci.electronics.design:326701

Google "crater lamp"

--
Mike Schultz



"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in message
news:f%XCj.32304$J41.13043@newssvr14.news.prodigy.net...
>I got a couple of the subject tubes which are supposed to be "glow
>modulator tubes".  Best I can determine is that the light output will vary
>with current but I can't find  data sheet googling.  If anyone has pinout
>and/or data I'd sure like to see it.  I think it might be a mid 1960s item
>as my 1957  Sylvania manual doesn't show it.
> thanks
>
> --
>
> 73
> Hank WD5JFR




From 4287393074632320357
X-Google-Thread: fc8b1,8341521e01935dd7
X-Google-Thread: 10c2ee,8341521e01935dd7
X-Google-Thread: fc2a5,8341521e01935dd7
X-Google-Thread: 112d1e,8341521e01935dd7
X-Google-Attributes: gidfc8b1,gid10c2ee,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 16 Mar 2008 08:10:08 -0500
Date: Sun, 16 Mar 2008 09:10:15 -0400
From: K3HVG <jeepp@comcast.net>
User-Agent: Thunderbird 2.0.0.12 (Windows/20080213)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.antiques.radio+phono,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Re: Sylvania R1131C octal tube ?
References: <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>
In-Reply-To: <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>
```

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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <KMednUEEv_qtgUDanZ2dnUVZ_jydnZ2d@comcast.com>
Lines: 13
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 68.33.111.19
X-Trace: sv3-
FEQEO50Y+fOX6ORjgBmwArpss+yVCOS5A7b6pcmlAQiZ5bmsIky2oB8kOxocXGbDUfZzQK6CV9+xe44!
HtjS5mXli9GvkaslOpK9XTbDhchP8P6o5XQO6F/72oSBXrCQ7tdPFCuugDaTK1Dl1bg74oRRoR69!
DfxoOQtD3ROdXG2XifDk9jUyDsxJ
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.boatanchors:14328
rec.antiques.radio+phono:94737 rec.radio.amateur.homebrew:15328
sci.electronics.design:326712

Henry Kolesnik wrote:
> I got a couple of the subject tubes which are supposed to be "glow
> modulator tubes".  Best I can determine is that the light output will
> vary with current but I can't find  data sheet googling.  If anyone has
> pinout and/or data I'd sure like to see it.  I think it might be a mid
> 1960s item as my 1957  Sylvania manual doesn't show it.
> thanks
>
Sounds like what we used to call "crater" (sp?) tubes and were used in
NOAA weather satellite optical printers for APT data in the 80's.
Muirhead (UK) was the mfgr. of the receiver/printer units.  I simply
don't recall who mfg the tubes, though. They were octal based, however.



From 8862760687127865346
X-Google-Thread: fc8b1,8341521e01935dd7
X-Google-Thread: 10c2ee,8341521e01935dd7
X-Google-Thread: fc2a5,8341521e01935dd7
X-Google-Thread: 112d1e,8341521e01935dd7
X-Google-Attributes: gidfc8b1,gid10c2ee,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!bloom-
beacon.mit.edu!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.radio.amateur.boatanchors,rec.antiques.radio+phono,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Re: Sylvania R1131C octal tube ?
Date: 16 Mar 2008 09:19:21 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 24
Message-ID: <frj6op$jvd$1@panix2.panix.com>
```

```
References: <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>
<KMednUEEv_qtgUDanZ2dnUVZ_jydnZ2d@comcast.com>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1205673561 29950 166.84.1.2 (16 Mar 2008 13:19:21 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 16 Mar 2008 13:19:21 +0000 (UTC)
Xref: g2news1.google.com rec.radio.amateur.boatanchors:14329
rec.antiques.radio+phono:94738 rec.radio.amateur.homebrew:15329
sci.electronics.design:326713

K3HVG  <jeepp@comcast.net> wrote:
>Henry Kolesnik wrote:
>> I got a couple of the subject tubes which are supposed to be "glow
>> modulator tubes".  Best I can determine is that the light output will
>> vary with current but I can't find  data sheet googling.  If anyone has
>> pinout and/or data I'd sure like to see it.  I think it might be a mid
>> 1960s item as my 1957  Sylvania manual doesn't show it.
>> thanks
>>
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>Muirhead (UK) was the mfgr. of the receiver/printer units.  I simply
>don't recall who mfg the tubes, though. They were octal based, however.

Yes, it's definitely a crater tube.  I don't have a data sheet on that
one, but I have the phototube volume of the RCA HB-3 which has some other
more or less similar crater tubes listed.  The data sheet has a chart of
light output vs. current and it's not very linear, but it tries to be.

They were used in some early computer plotters and in a bunch of chart
recorders as well.
--scott
--
"C'est un Nagra.  C'est suisse, et tres, tres precis."


From 8695033254145957550
X-Google-Thread: fc8b1,8341521e01935dd7
X-Google-Thread: 10c2ee,8341521e01935dd7
X-Google-Thread: fc2a5,8341521e01935dd7
X-Google-Thread: 112d1e,8341521e01935dd7
X-Google-Attributes: gidfc8b1,gid10c2ee,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!
newscon02.news.prodigy.net!prodigy.net!newsdst02.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr19.news.prodigy.net.POSTED!c4667c2f!not-for-
mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.antiques.radio+phono,rec.radio.amateur.homebrew,
sci.electronics.design
References: <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>
<KMednUEEv_qtgUDanZ2dnUVZ_jydnZ2d@comcast.com> <frj6op$jvd$1@panix2.panix.com>
```

```
Subject: Re: Sylvania R1131C octal tube ?
Lines: 35
MIME-Version: 1.0
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     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <LwbDj.1471$LV5.806@newssvr19.news.prodigy.net>
NNTP-Posting-Host: 70.128.122.130
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr19.news.prodigy.net 1205683371 ST000 70.128.122.130 (Sun, 16 Mar
2008 12:02:51 EDT)
NNTP-Posting-Date: Sun, 16 Mar 2008 12:02:51 EDT
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
TSU[@ION^ZUKRTD[@JIROFXBWR\HPCTL@XT^OBPLAH[\RZ]CDVW[AKK[J\]^HVKHG^EWZHBLO^[\NH_AZF
WGN^\DHNVMX_DHHX[FSQKBOTS@@BP^]C@RHS_AGDDC[AJM_T[GZNRNZAY]GNCPBDYKOLK^_CZFWPGHZIXW
@C[AFKBBQS@E@DAZ]VDFUNTQQ]FN
Date: Sun, 16 Mar 2008 11:02:52 -0500
Xref: g2news1.google.com rec.radio.amateur.boatanchors:14330
rec.antiques.radio+phono:94746 rec.radio.amateur.homebrew:15330
sci.electronics.design:326738

I just posted a pic of them to alt.binaries.pictures.radio
Hank
"Scott Dorsey" <kludge@panix.com> wrote in message
news:frj6op$jvd$1@panix2.panix.com...
> K3HVG  <jeepp@comcast.net> wrote:
>>Henry Kolesnik wrote:
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>>> will
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>>> 1960s item as my 1957  Sylvania manual doesn't show it.
>>> thanks
>>>
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>
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> more or less similar crater tubes listed.  The data sheet has a chart
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>
> They were used in some early computer plotters and in a bunch of chart
> recorders as well.
> --scott
> --
> "C'est un Nagra.  C'est suisse, et tres, tres precis."



From 7768858055588441968
X-Google-Thread: fc8b1,8341521e01935dd7
X-Google-Thread: 10c2ee,8341521e01935dd7
X-Google-Thread: fc2a5,8341521e01935dd7
X-Google-Thread: 112d1e,8341521e01935dd7
X-Google-Attributes: gidfc8b1,gid10c2ee,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!post02.iad01!roadrunner.com!not-for-mail
From: "Jim Menning" <jmenningSPAM@new.rr.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.antiques.radio+phono,rec.radio.amateur.homebrew,
sci.electronics.design
References: <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>
<KMednUEEv_qtgUDanZ2dnUVZ_jydnZ2d@comcast.com> <frj6op$jvd$1@panix2.panix.com>
<LwbDj.1471$LV5.806@newssvr19.news.prodigy.net>
Subject: Re: Sylvania R1131C octal tube ?
Date: Sun, 16 Mar 2008 11:25:09 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Lines: 13
Message-ID: <47dd4998$0$17329$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 75.87.209.129
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.boatanchors:14331
rec.antiques.radio+phono:94752 rec.radio.amateur.homebrew:15331
sci.electronics.design:326746


"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in message
news:LwbDj.1471$LV5.806@newssvr19.news.prodigy.net...
>
>I just posted a pic of them to alt.binaries.pictures.radio
> Hank
>
```

It's also got a very interesting mounting collar on it. Is that part of the tube socket, or completely separate from it?

```
From 5217214090798742898
X-Google-Thread: fc8b1,8341521e01935dd7
X-Google-Thread: 10c2ee,8341521e01935dd7
X-Google-Thread: fc2a5,8341521e01935dd7
X-Google-Thread: 112d1e,8341521e01935dd7
X-Google-Attributes: gidfc8b1,gid10c2ee,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr19.news.prodigy.net.POSTED!c4667c2f!not-for-
mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.antiques.radio+phono,rec.radio.amateur.homebrew,
sci.electronics.design
References: <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>
<KMednUEEv_qtgUDanZ2dnUVZ_jydnZ2d@comcast.com> <frj6op$jvd$1@panix2.panix.com>
<LwbDj.1471$LV5.806@newssvr19.news.prodigy.net>
<47dd4998$0$17329$4c368faf@roadrunner.com>
Subject: Re: Sylvania R1131C octal tube ?
Lines: 16
MIME-Version: 1.0
Content-Type: text/plain;
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     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <XSbDj.1475$LV5.1147@newssvr19.news.prodigy.net>
NNTP-Posting-Host: 70.128.122.130
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr19.news.prodigy.net 1205684791 ST000 70.128.122.130 (Sun, 16 Mar
2008 12:26:31 EDT)
NNTP-Posting-Date: Sun, 16 Mar 2008 12:26:31 EDT
Organization: AT&T http://yahoo.sbc.com
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TSU[@SJDZBUYR_PXGZID]_\@VR]^@B@MCPWZKB]MPXHNDQUBLNTC@AWZWDXZXQ[K\FFSKCVM@F_N_DOBWV
WG__LG@VVOIPLIGX\
\BU_B@\P\PFX\B[APHTWAHDCKJF^NHD[YJAZMCY_CWG[SX\Y]^KC\HSZRWSWKGAY_PC[BQ[BXAS\F\
\@DMTLFZFUE@\VL
Date: Sun, 16 Mar 2008 11:26:32 -0500
Xref: g2news1.google.com rec.radio.amateur.boatanchors:14332
rec.antiques.radio+phono:94753 rec.radio.amateur.homebrew:15332
```

```
sci.electronics.design:326748

The octal socket and mounting bracket are separate items.
"Jim Menning" <jmenningSPAM@new.rr.com> wrote in message
news:47dd4998$0$17329$4c368faf@roadrunner.com...
>
> "Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in message
> news:LwbDj.1471$LV5.806@newssvr19.news.prodigy.net...
>>
>>I just posted a pic of them to alt.binaries.pictures.radio
>> Hank
>>
>
>
> It's also got a very interesting mounting collar on it.  Is that part
> of the tube socket, or completely separate from it?
>
```

```
From 3304994727225916330
X-Google-Thread: 112d1e,f6b40d49f2e7980e,start
X-Google-Thread: fc2a5,f6b40d49f2e7980e,start
X-Google-Thread: 1131b0,f6b40d49f2e7980e,start
X-Google-Thread: 10c2ee,f6b40d49f2e7980e,start
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr19.news.prodigy.net.POSTED!c4667c2f!not-for-
mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair,rec.antiq
ues.radio+phono
Subject: USB Multimeter for Temp ??
Lines: 15
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net>
NNTP-Posting-Host: 70.128.122.130
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr19.news.prodigy.net 1205696340 ST000 70.128.122.130 (Sun, 16 Mar
2008 15:39:00 EDT)
NNTP-Posting-Date: Sun, 16 Mar 2008 15:39:00 EDT
```

Organization: AT&T http://yahoo.sbc.com
X-UserInfo1: TSUGW[[DYJWUCQLXEBCBNWX@RJ_XPDLMN@GZ_GYO^RR@ETUCCNSKQFCY@TXDX_WHSVB]ZEJLSNY\^J[CUVSA_QLFC^RQHUPH[P[NRWCCMLSNPOD_ESALHUK@TDFUZHBLJ\XGKL^NXA\EVHSP[D_C^B_^JCX^W]CHBAX]POG@SSAZQ\LE[DCNMUPG_VSC@VJM
Date: Sun, 16 Mar 2008 14:39:01 -0500
Xref: g2news1.google.com sci.electronics.design:326795 rec.radio.amateur.homebrew:15333 sci.electronics.repair:89869 rec.antiques.radio+phono:94768

I have a Fluke 87 and a Fluke 80T-150 temperature probe that outputs 1 mV/deg F....but I'm getting lazy...
I'd like to find a reasonably priced but accurate and durable multimeter with a USB interface and software so I can log temp with some kind of time stamp using my Fluke temp probe. If someone experience with any I'd like to know what's available new and used. I'm attempting to evaluate some insulation and thermal mass for a passive solar home design.
tnx

--

73
Hank WD5JFR

From 1174026032566338101
X-Google-Thread: 112d1e,f6b40d49f2e7980e
X-Google-Thread: fc2a5,f6b40d49f2e7980e
X-Google-Thread: 1131b0,f6b40d49f2e7980e
X-Google-Thread: 10c2ee,f6b40d49f2e7980e
X-Google-Attributes: gid112d1e,gidfc2a5,gid1131b0,gid10c2ee,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!c19g2000prf.googlegroups.com!not-for-mail
From: nesesu <neil_sutcliffe@telus.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair,rec.antiques.radio+phono
Subject: Re: USB Multimeter for Temp ??
Date: Sun, 16 Mar 2008 13:05:06 -0700 (PDT)
Organization: http://groups.google.com
Lines: 23
Message-ID: <2593f1e0-88d4-4691-a772-614139266438@c19g2000prf.googlegroups.com>
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net>
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Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 16 Mar 2008 20:05:06 +0000 (UTC)

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Complaints-To: groups-abuse@google.com
Injection-Info: c19g2000prf.googlegroups.com; posting-host=216.232.181.190;
     posting-account=bu8fZAoAAAAFrh3QX0hwsUyXJtD7-Osm
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com sci.electronics.design:326799
rec.radio.amateur.homebrew:15334 sci.electronics.repair:89874
rec.antiques.radio+phono:94772

On Mar 16, 12:39=A0pm, "Henry Kolesnik" <koles...@nojunksbcglobal.net>
wrote:
> I have a Fluke 87 and a Fluke 80T-150 temperature probe that outputs 1
> mV/deg F....but I'm getting lazy...
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> with a USB interface and software so I can log temp with some kind of
> time stamp using my Fluke temp probe. =A0If someone experience with any
> I'd like to know what's available new and used. =A0I'm attempting to
> evaluate some insulation and thermal mass for a passive solar home
> design.
> tnx
>
> --
>
> 73
> Hank WD5JFR

I too am looking for a voltage data logger with USB output and
software. I can find some fairly inexpensive thermal loggers like
this, but nothing that is, say, a 200mV input logger.
The thermal ones I have seen look like a USB memory stick.

Neil S.


From 2897047919351433813
X-Google-Thread: 112d1e,f6b40d49f2e7980e
X-Google-Thread: fc2a5,f6b40d49f2e7980e
X-Google-Thread: 1131b0,f6b40d49f2e7980e
X-Google-Thread: 10c2ee,f6b40d49f2e7980e
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-03!sn-xt-sjc-06!sn-xt-sjc-09!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Fred Bloggs <nospam@nospam.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair,rec.antiq
ues.radio+phono
Subject: Re: USB Multimeter for Temp ??
Date: Sun, 16 Mar 2008 15:10:48 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <47DD7EC8.5040009@nospam.com>
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User-Agent: Mozilla/5.0 (Windows; U; Win 9x 4.90; en-US; rv:1.0.1) Gecko/20020823 Netscape/7.0
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
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X-Complaints-To: abuse@supernews.com
Lines: 19
Xref: g2news1.google.com sci.electronics.design:326800 rec.radio.amateur.homebrew:15335 sci.electronics.repair:89875 rec.antiques.radio+phono:94773

> I have a Fluke 87 and a Fluke 80T-150 temperature probe that outputs 1
> mV/deg F....but I'm getting lazy...
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> time stamp using my Fluke temp probe. If someone experience with any
> I'd like to know what's available new and used. I'm attempting to
> evaluate some insulation and thermal mass for a passive solar home design.
> tnx
>

Why tie up the multimeter..

This does not look bad:
http://www.microdaq.com/lascar/usb_thermocouple_logger.php

But if you insist:
http://www.home.agilent.com/agilent/product.jspx?nid=-536902435.536910695.00&cc=US&lc=eng

From -5879209210371583364
X-Google-Thread: 112d1e,f6b40d49f2e7980e
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!newssvr19.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair,rec.antiques.radio+phono
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net> <47DD7EC8.5040009@nospam.com>
Subject: Re: USB Multimeter for Temp ??

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Lines: 27
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X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <XxfDj.1498$LV5.483@newssvr19.news.prodigy.net>
NNTP-Posting-Host: 70.128.122.130
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr19.news.prodigy.net 1205699831 ST000 70.128.122.130 (Sun, 16 Mar
2008 16:37:11 EDT)
NNTP-Posting-Date: Sun, 16 Mar 2008 16:37:11 EDT
Organization: AT&T http://yahoo.sbc.com
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OP[MBXSEFRUARSH]]RKB_UDAZZ\DPCPDLXUNNHDK@YUDUWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
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@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Sun, 16 Mar 2008 15:37:12 -0500
Xref: g2news1.google.com sci.electronics.design:326810
rec.radio.amateur.homebrew:15336 sci.electronics.repair:89878
rec.antiques.radio+phono:94775

Radio Shack has one for $70 but it's RS 232 and Amazon sells one for $65
but the reviews aren't that great.
Lets see what others scare up..
Hank
"Fred Bloggs" <nospam@nospam.com> wrote in message
news:47DD7EC8.5040009@nospam.com...
>
>> I have a Fluke 87 and a Fluke 80T-150 temperature probe that outputs
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>
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>
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> http://www.microdaq.com/lascar/usb_thermocouple_logger.php
>
> But if you insist:
> http://www.home.agilent.com/agilent/product.jspx?
nid=-536902435.536910695.00&cc=US&lc=eng
```

>

From -7637343278405064241
X-Google-Thread: 112d1e,f6b40d49f2e7980e
X-Google-Thread: fc2a5,f6b40d49f2e7980e
X-Google-Thread: 1131b0,f6b40d49f2e7980e
X-Google-Thread: 10c2ee,f6b40d49f2e7980e
X-Google-Attributes: gid112d1e,gidfc2a5,gid1131b0,gid10c2ee,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!sn-xt-sjc-02!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair,rec.antiques.radio+phono
Subject: Re: USB Multimeter for Temp ??
Date: Sun, 16 Mar 2008 15:48:54 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13tr1ti35rp7p60@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net> <2593f1e0-88d4-4691-a772-614139266438@c19g2000prf.googlegroups.com>
In-Reply-To: <2593f1e0-88d4-4691-a772-614139266438@c19g2000prf.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 20
Xref: g2news1.google.com sci.electronics.design:326812 rec.radio.amateur.homebrew:15337 sci.electronics.repair:89880 rec.antiques.radio+phono:94777

nesesu wrote:

<snip>
Wow this is promiscuously cross-posted...

>
> I too am looking for a voltage data logger with USB output and
> software. I can find some fairly inexpensive thermal loggers like
> this, but nothing that is, say, a 200mV input logger.
> The thermal ones I have seen look like a USB memory stick.

Where you can install a computer, one could use 1-Wire devices
and software like 'digitemp' or roll-your-own.

For standalone, I have used educational data loggers like
the TI CBL and serial-port interfaced loggers from the likes
of DH, Vernier or Fourier, which for the more general purpose

models include a 200mv range.

Michael

```
From 7956666733711125848
X-Google-Thread: 112d1e,f6b40d49f2e7980e
X-Google-Thread: fc2a5,f6b40d49f2e7980e
X-Google-Thread: 1131b0,f6b40d49f2e7980e
X-Google-Thread: 10c2ee,f6b40d49f2e7980e
X-Google-Attributes: gid112d1e,gidfc2a5,gid1131b0,gid10c2ee,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-04!sn-xt-sjc-06!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Fred Bloggs <nospam@nospam.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair,rec.antiq
ues.radio+phono
Subject: Re: USB Multimeter for Temp ??
Date: Sun, 16 Mar 2008 15:58:29 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <47DD89F5.8040704@nospam.com>
User-Agent: Mozilla/5.0 (Windows; U; Win 9x 4.90; en-US; rv:1.0.1) Gecko/20020823
Netscape/7.0
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net>
<47DD7EC8.5040009@nospam.com> <XxfDj.1498$LV5.483@newssvr19.news.prodigy.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 38
Xref: g2news1.google.com sci.electronics.design:326819
rec.radio.amateur.homebrew:15338 sci.electronics.repair:89881
rec.antiques.radio+phono:94778
```

Henry Kolesnik wrote:
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>
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>> Why tie up the multimeter..
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>> This does not look bad:
>> http://www.microdaq.com/lascar/usb_thermocouple_logger.php
>>
>> But if you insist:
>> http://www.home.agilent.com/agilent/product.jspx?
nid=-536902435.536910695.00&cc=US&lc=eng
>>
>>
>

Here's what $40 gets you, note the limited measurement range and sample
frequency:
http://www.logicbeach.com/pdf/EL-USB-Lite.pdf

From 3953661832364810664
X-Google-Thread: 112d1e,f6b40d49f2e7980e
X-Google-Thread: fc2a5,f6b40d49f2e7980e
X-Google-Thread: 1131b0,f6b40d49f2e7980e
X-Google-Thread: 10c2ee,f6b40d49f2e7980e
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s8g2000prg.googlegroups.com!not-for-mail
From: "David L. Jones" <altzone@gmail.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair,rec.antiques.radio+phono
Subject: Re: USB Multimeter for Temp ??
Date: Sun, 16 Mar 2008 14:03:02 -0700 (PDT)
Organization: http://groups.google.com
Lines: 26
Message-ID: <b3d0ec10-eb1d-44c9-a7b7-0a0041117d3b@s8g2000prg.googlegroups.com>
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net>
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Content-Transfer-Encoding: 7bit
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NNTP-Posting-Date: Sun, 16 Mar 2008 21:03:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s8g2000prg.googlegroups.com; posting-host=202.7.166.164;
     posting-account=QZE-egkAAAA7XQZtaM0zMEUOaYheerjD

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X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.12) Gecko/20080201 Firefox/2.0.0.12,gzip(gfe),gzip(gfe)
X-HTTP-Via: 1.1 syd-pow-pr2.tpgi.com.au:3128 (squid)
Xref: g2news1.google.com sci.electronics.design:326823 rec.radio.amateur.homebrew:15339 sci.electronics.repair:89883 rec.antiques.radio+phono:94780

On Mar 17, 6:39 am, "Henry Kolesnik" <koles...@nojunksbcglobal.net> wrote:
> I have a Fluke 87 and a Fluke 80T-150 temperature probe that outputs 1
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> with a USB interface and software so I can log temp with some kind of
> time stamp using my Fluke temp probe. If someone experience with any
> I'd like to know what's available new and used. I'm attempting to
> evaluate some insulation and thermal mass for a passive solar home
> design.
> tnx

These may be the best solution, if you don't need real-time updating
on the PC.
http://www.maxim-ic.com/products/ibutton/ibuttons/thermochron.cfm
I used a bunch of them to evaluate a Solar Air Heater I designed
(http://www.solarsponge.com), along with other passive cooling and
heating aspects of my home.
You can use as many as you want and actually get thermal mappings of a
space. i.e. suspend then at different heights in a room and get a map
of the temperature layers. I've put then in air ducts, in water, as
contact thermometers etc

Infinitely better than a PC and a multimeter.

Dave.

From -481568786098981553
X-Google-Thread: 112d1e,f6b40d49f2e7980e
X-Google-Thread: fc2a5,f6b40d49f2e7980e
X-Google-Thread: 1131b0,f6b40d49f2e7980e
X-Google-Thread: 10c2ee,f6b40d49f2e7980e
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NNTP-Posting-Date: Sun, 16 Mar 2008 17:05:46 -0500
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair,rec.antiques.radio+phono
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net> <47DD7EC8.5040009@nospam.com> <XxfDj.1498$LV5.483@newssvr19.news.prodigy.net>

```
<47DD89F5.8040704@nospam.com>
Subject: Re: USB Multimeter for Temp ??
Date: Sun, 16 Mar 2008 18:05:41 -0400
X-Priority: 3
X-MSMail-Priority: Normal
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X-RFC2646: Format=Flowed; Response
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Lines: 58
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com sci.electronics.design:326843
rec.radio.amateur.homebrew:15340 sci.electronics.repair:89886
rec.antiques.radio+phono:94786

"Fred Bloggs" <nospam@nospam.com> wrote in message
news:47DD89F5.8040704@nospam.com...
>
>
> Henry Kolesnik wrote:
>> Radio Shack has one for $70 but it's RS 232 and Amazon sells one for $65 but
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>
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>> Hank
>> "Fred Bloggs" <nospam@nospam.com> wrote in message
>> news:47DD7EC8.5040009@nospam.com...
>>
>>>
>>>> I have a Fluke 87 and a Fluke 80T-150 temperature probe that outputs 1
>>>> mV/deg F....but I'm getting lazy...
>>>> I'd like to find a reasonably priced but accurate and durable multimeter
>>>> with a USB interface and software so I can log temp with some kind of time
>>>> stamp using my Fluke temp probe.  If someone experience with any I'd like
>>>> to know what's available new and used. I'm attempting to evaluate some
>>>> insulation and thermal mass for a passive solar home design.
>>>> tnx
>>>>
>>>
>>> Why tie up the multimeter..
>>>
>>> This does not look bad:
```

```
>>> http://www.microdaq.com/lascar/usb_thermocouple_logger.php
>>>
>>> But if you insist:
>>> http://www.home.agilent.com/agilent/product.jspx?
nid=-536902435.536910695.00&cc=US&lc=eng
>>>
>>
>
> Here's what $40 gets you, note the limited measurement range and sample
> frequency:
> http://www.logicbeach.com/pdf/EL-USB-Lite.pdf
>

I like the Microdaq unit. Good price, good value.

A couple cheaper units, pretty good prices:
http://www.weathershop.com/USB1_temperature_logger.htm.  $59.95 USD.  Includes
software, temperature range from -25 to +80�C. Logging intervals from 10 seconds
to 12 hours and capacity of more than 16,000 readings.

Omega has what appears to be the same unit as above, @$60 USD.
http://www.omega.com/ppt/pptsc.asp?ref=om-el-usb-1

--
Dave M
MasonDG44 at comcast dot net  (Just substitute the appropriate characters in the
address)

"In theory, there isn't any difference between theory and practice.  In
practice, there is."  - Yogi Berra




From -1391833928733934314
X-Google-Thread: 112d1e,f6b40d49f2e7980e
X-Google-Thread: fc2a5,f6b40d49f2e7980e
X-Google-Thread: 1131b0,f6b40d49f2e7980e
X-Google-Thread: 10c2ee,f6b40d49f2e7980e
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spamkiller2.gnilink.net!gnilink.net!trndny08.POSTED!c8dba710!not-for-mail
From: "Martin Riddle" <martin_rid@verizon.net>
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair,rec.antiq
ues.radio+phono
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net>
Subject: Re: USB Multimeter for Temp ??
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
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X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 080316-0, 03/16/2008), Outbound message
X-Antivirus-Status: Clean
Message-ID: <C7iDj.6903$FK1.4379@trndny08>
Date: Sun, 16 Mar 2008 23:33:54 GMT
NNTP-Posting-Host: 71.247.76.143
X-Complaints-To: abuse@verizon.net
X-Trace: trndny08 1205710434 71.247.76.143 (Sun, 16 Mar 2008 19:33:54 EDT)
NNTP-Posting-Date: Sun, 16 Mar 2008 19:33:54 EDT
Xref: g2news1.google.com sci.electronics.design:326848
rec.radio.amateur.homebrew:15341 sci.electronics.repair:89897
rec.antiques.radio+phono:94792

"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in message
news:oHeDj.1493$LV5.53@newssvr19.news.prodigy.net...
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Omega has the OM-62, standalone. I've worked with one, stick it where you want,
then download the data. Temp dew point and
RH.
http://www.omega.com/ppt/pptsc.asp?ref=OM-62&nav=DASE01

Cheers





From -8113809282466890238
X-Google-Thread: 112d1e,f6b40d49f2e7980e
X-Google-Thread: fc2a5,f6b40d49f2e7980e
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X-Google-Thread: 10c2ee,f6b40d49f2e7980e
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!
newscon02.news.prodigy.net!prodigy.net!newsdst02.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr19.news.prodigy.net.POSTED!c4667c2f!not-for-
mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
```

```
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair,rec.antiques.radio+phono
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net>
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X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr19.news.prodigy.net 1205716412 ST000 70.128.122.130 (Sun, 16 Mar
2008 21:13:32 EDT)
NNTP-Posting-Date: Sun, 16 Mar 2008 21:13:32 EDT
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
TSU[@I_AOXTMBP\Y]RHV_STDFZ\@@FXLM@TDOCQDJ@_@FN@ANVUEAE[YETZPIWWI[FCIZA^NBFXZ_D[BFN
TCNVPDTNTKHWXKB@X^B_OCJLPZ@ET_O[G\XSG@E\G[ZKVLBL^CJINM@I_KVIOR\T_M_AW_M[_BWU_HFA_]
@A_A^SGFAUDE_DFTMQPFWVW[QPJN
Date: Sun, 16 Mar 2008 20:13:33 -0500
Xref: g2news1.google.com sci.electronics.design:326855
rec.radio.amateur.homebrew:15342 sci.electronics.repair:89907
rec.antiques.radio+phono:94797

Wow, my options are getting better and better..
Please keep sending them in..
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"Martin Riddle" <martin_rid@verizon.net> wrote in message
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> http://www.omega.com/ppt/pptsc.asp?ref=OM-62&nav=DASE01
>
> Cheers
>
>




From 1891027967774746731
X-Google-Thread: 112d1e,f6b40d49f2e7980e
X-Google-Thread: fc2a5,f6b40d49f2e7980e
X-Google-Thread: 1131b0,f6b40d49f2e7980e
X-Google-Thread: 10c2ee,f6b40d49f2e7980e
X-Google-Attributes: gid112d1e,gidfc2a5,gid1131b0,gid10c2ee,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe05.lga.POSTED!53ab2750!not-for-mail
From: Jamie <jamie_ka1lpa_not_valid_after_ka1lpa_@charter.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.4) Gecko/20030624
Netscape/7.1 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair,rec.antiq
ues.radio+phono
Subject: Re: USB Multimeter for Temp ??
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net>
In-Reply-To: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net>
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Content-Transfer-Encoding: 7bit
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X-Complaints-To: abuse@charter.net
X-Trace:
dbkajaeeceiapgbcgmoeimofopipoaimhhknkfoailjneccdfjjkfhidgfkchkdglhjfgdkjajaokojfbj
kkeoigbckakbheanmkpmklelbdeddgeifebedhnpmlemdiecpcfdalnnloobep
NNTP-Posting-Date: Sun, 16 Mar 2008 18:26:47 MST
Date: Sun, 16 Mar 2008 21:34:16 -0500
Xref: g2news1.google.com sci.electronics.design:326861
rec.radio.amateur.homebrew:15343 sci.electronics.repair:89909
rec.antiques.radio+phono:94798

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> evaluate some insulation and thermal mass for a passive solar home design.
> tnx
>

the Fluke 289 series has a nice trending graph in it and if you want to link
it to the PC, it has an IR port which many laptops have..including desktops.
    I own a 289, I like it. It can do up to 200 hours of recording
and data can be read back in a chart etc..

--
http://webpages.charter.net/jamie_5"

From -1540559573417817644
X-Google-Thread: 112d1e,f6b40d49f2e7980e
X-Google-Thread: fc2a5,f6b40d49f2e7980e
X-Google-Thread: 1131b0,f6b40d49f2e7980e
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X-Google-Language: ENGLISH,ASCII-7-bit
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news.highwinds-media.com!hw-filter.lga!newsfe05.lga.POSTED!53ab2750!not-for-mail
From: Jamie <jamie_ka1lpa_not_valid_after_ka1lpa_@charter.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.4) Gecko/20030624
Netscape/7.1 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair,rec.antiques.radio+phono
Subject: Re: USB Multimeter for Temp ??
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net>
<C7iDj.6903$FK1.4379@trndny08> <0BjDj.1527$LV5.1516@newssvr19.news.prodigy.net>
In-Reply-To: <0BjDj.1527$LV5.1516@newssvr19.news.prodigy.net>
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Content-Transfer-Encoding: 7bit
Lines: 25
Message-ID: <tTjDj.70$WV5.34@newsfe05.lga>
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NNTP-Posting-Date: Sun, 16 Mar 2008 18:33:13 MST
Date: Sun, 16 Mar 2008 21:40:44 -0500
Xref: g2news1.google.com sci.electronics.design:326867
rec.radio.amateur.homebrew:15344 sci.electronics.repair:89914
rec.antiques.radio+phono:94799

Henry Kolesnik wrote:

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>>> Hank WD5JFR
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>> you want, then download the data. Temp dew point and RH.
>> http://www.omega.com/ppt/pptsc.asp?ref=OM-62&nav=DASE01
>>
>> Cheers

Check that out. It can computer link of show the data
on it's own VGA screen along with saving it for later
viewing.

http://us.fluke.com/usen/products/Fluke+289.htm

http://webpages.charter.net/jamie_5"

From -8516967769844733949
X-Google-Thread: 112d1e,f6b40d49f2e7980e
X-Google-Thread: fc2a5,f6b40d49f2e7980e
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e23g2000prf.googlegroups.com!not-for-mail
From: "David L. Jones" <altzone@gmail.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair,rec.antiques.radio+phono
Subject: Re: USB Multimeter for Temp ??
Date: Sun, 16 Mar 2008 18:35:04 -0700 (PDT)
Organization: http://groups.google.com
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<C7iDj.6903$FK1.4379@trndny08>
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Complaints-To: groups-abuse@google.com
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     posting-account=QZE-egkAAAA7XQZtaM0zMEUOaYheerjD
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.12)
     Gecko/20080201 Firefox/2.0.0.12,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com sci.electronics.design:326871
rec.radio.amateur.homebrew:15345 sci.electronics.repair:89916
rec.antiques.radio+phono:94801

On Mar 17, 10:33 am, "Martin Riddle" <martin_...@verizon.net> wrote:
> "Henry Kolesnik" <koles...@nojunksbcglobal.net> wrote in
messagenews:oHeDj.1493$LV5.53@newssvr19.news.prodigy.net...
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>
> Cheers

The Themrochron iButtons are a much sexier solution. Only $25ea, have
up to a 10 year battery life, are waterproof, and are only the size a
few stacked coins.
https://shop.maxim-ic.com/storefront/priceavailable.do?
Partnumber=DS1921G&event=PartSearch&menuitem=PriceAndAvailability
http://www.maxim-ic.com/quick_view2.cfm/qv_pk/4023

Serial and USB readers are available, and data can be exported to
Excel etc.
You can get little plastic tags to attach them to to things too. I
hang one off my harness when I go canyoning, to log the water temp.

Dave.


From -3015410529589889372
X-Google-Thread: 112d1e,f6b40d49f2e7980e
X-Google-Thread: fc2a5,f6b40d49f2e7980e
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X-Google-Thread: 1131b0,f6b40d49f2e7980e
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X-Google-Attributes: gid112d1e,gidfc2a5,gid1131b0,gid10c2ee,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out02b.usenetserver.com!news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!pd7cy1no!pd7cy2no!shaw.ca!pd7urf1no.POSTED!53ab2750!not-for-mail
X-Trace-PostClient-IP: 68.151.133.44
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From: maxhifi <no@spam.com>
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X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair,rec.antiques.radio+phono
Subject: Re: USB Multimeter for Temp ??
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net>
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Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 080316-0, 03/16/2008), Outbound message
X-Antivirus-Status: Clean
Lines: 35
Date: Mon, 17 Mar 2008 01:40:44 GMT
NNTP-Posting-Host: 24.70.95.207
X-Complaints-To: abuse@shaw.ca
X-Trace: pd7urf1no 1205718044 24.70.95.207 (Sun, 16 Mar 2008 19:40:44 MDT)
NNTP-Posting-Date: Sun, 16 Mar 2008 19:40:44 MDT
Organization: Shaw Residential Internet
Xref: g2news1.google.com sci.electronics.design:326875 rec.radio.amateur.homebrew:15346 sci.electronics.repair:89917 rec.antiques.radio+phono:94803

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I was also working on a project which required temperature to be monitored in many discrete points, over a period of time. There's several options, but I believe the best to be as below:

http://www.logtagrecorders.com/

These are cheap, simple, accurate enough, easy to use, and pretty much perfect for your application. The previous generation of logger we used (ACR) were about $800 per unit, and these do basically the same thing for $30 a piece. Thank you China! It would be prudent to buy several, and put them in different spots so you can also evaluate temperature variations.

I think it will save you time, and get you better and more useful data if you go with this approach rather than trying to use a general purpose multimeter.

```
From 4853179258665151143
X-Google-Thread: fc2a5,f6b40d49f2e7980e
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 17 Mar 2008 19:21:23 -0500
From: Gary P. Fiber <gfiber@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: USB Multimeter for Temp ??
Date: Mon, 17 Mar 2008 17:21:19 -0700
Reply-To: gfiber@comcast.net
Message-ID: <ul2ut397ftk2clkhpbv8qt9kplsdllrd82@4ax.com>
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net>
<C7iDj.6903$FK1.4379@trndny08> <3301830f-b37b-46b8-
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Content-Transfer-Encoding: 7bit
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X-Complaints-To: abuse@comcast.net
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15347
```

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thermal mass for a passive solar home design.
>> > tnx
>>
>> > --
>>
>> > 73
>> > Hank WD5JFR
>>
>> Omega has the OM-62, standalone. I've worked with one, stick it where you want,
then download the data. Temp dew point and
>> RH.http://www.omega.com/ppt/pptsc.asp?ref=OM-62&nav=DASE01
>>
>> Cheers
>
>The Themrochron iButtons are a much sexier solution. Only $25ea, have
>up to a 10 year battery life, are waterproof, and are only the size a
>few stacked coins.
>https://shop.maxim-ic.com/storefront/priceavailable.do?
Partnumber=DS1921G&event=PartSearch&menuitem=PriceAndAvailability
>http://www.maxim-ic.com/quick_view2.cfm/qv_pk/4023
>
>Serial and USB readers are available, and data can be exported to
>Excel etc.
>You can get little plastic tags to attach them to to things too. I
>hang one off my harness when I go canyoning, to log the water temp.
>
>Dave.

Those are pretty cool I read about one sending them aloft in a model
rocket nose cone and doing temperature measurements during the rockets
flight.

Gary K8IZ

From 6333232038649833967
X-Google-Thread: fc8b1,8341521e01935dd7
X-Google-Thread: 10c2ee,8341521e01935dd7
X-Google-Thread: fc2a5,8341521e01935dd7
X-Google-Thread: 112d1e,8341521e01935dd7

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spamkiller2.gnilink.net!gnilink.net!trndny04.POSTED!c8dba710!not-for-mail
From: "Martin Riddle" <martin_rid@verizon.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.antiques.radio+phono,rec.radio.amateur.homebrew,
sci.electronics.design
References: <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>
<13tp4egkuf3sb69@corp.supernews.com>
Subject: Re: Sylvania R1131C octal tube ?
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <PjEDj.2253$jw2.67@trndny04>
Date: Tue, 18 Mar 2008 00:48:47 GMT
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X-Trace: trndny04 1205801327 162.84.188.155 (Mon, 17 Mar 2008 20:48:47 EDT)
NNTP-Posting-Date: Mon, 17 Mar 2008 20:48:47 EDT
Xref: g2news1.google.com rec.radio.amateur.boatanchors:14344
rec.antiques.radio+phono:94861 rec.radio.amateur.homebrew:15348
sci.electronics.design:327113
X-Original-Bytes: 1935

"Robert Baer" <robertbaer@localnet.com> wrote in message
news:13tp4egkuf3sb69@corp.supernews.com...
> Henry Kolesnik wrote:
>> I got a couple of the subject tubes which are supposed to be "glow modulator
tubes". Best I can determine is that the
>> light output will vary with current but I can't find data sheet googling. If
anyone has pinout and/or data I'd sure like
>> to see it. I think it might be a mid 1960s item as my 1957 Sylvania manual
doesn't show it.
>> thanks
>>
> I have a Sylania Technical Manual of tube data sheets dated 1959 and have the
blue add-ons to 1960, and that tube is not
> listed anywhere in it.
> Sorry.

Hi Robert,

I have some PDF's of scanned tube manuals(Eimac, Taylor RCA), I would love to
trade a few for a pdf of the Sylvania Manuals.
If interested email me.

Cheers

From -7461455512569210789
X-Google-Thread: 112d1e,f6b40d49f2e7980e
X-Google-Thread: fc2a5,f6b40d49f2e7980e
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newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr19.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair,rec.antiques.radio+phono
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net>
<rNjDj.69$WV5.50@newsfe05.lga>
Subject: Re: USB Multimeter for Temp ??
Lines: 36
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Message-ID: <CmFDj.1620$LV5.642@newssvr19.news.prodigy.net>
NNTP-Posting-Host: 70.128.122.130
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X-Trace: newssvr19.news.prodigy.net 1205805602 ST000 70.128.122.130 (Mon, 17 Mar 2008 22:00:02 EDT)
NNTP-Posting-Date: Mon, 17 Mar 2008 22:00:02 EDT
Organization: AT&T http://yahoo.sbc.com
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SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Mon, 17 Mar 2008 21:00:04 -0500
Xref: g2news1.google.com sci.electronics.design:327131
rec.radio.amateur.homebrew:15349 sci.electronics.repair:90017
rec.antiques.radio+phono:94863

Found another option which may be the least expensive and that is a DataWatch Elite M2000 temperature logger with LCD display and is RS232 but works with a conversion cable to USB. Come with software and can store 1,868 samples, sampling at 1 to 255 minutes with a real-time

```
clock, -40F to +158F.  Cost $45.00.. Replaceable lithium cell runs it
for a year.  I have a PDF spec sheet if anyone wants it, let know.

--

73
Hank WD5JFR
"Jamie" <jamie_ka1lpa_not_valid_after_ka1lpa_@charter.net> wrote in
message news:rNjDj.69$WV5.50@newsfe05.lga...
> Henry Kolesnik wrote:
>> I have a Fluke 87 and a Fluke 80T-150 temperature probe that outputs
>> 1 mV/deg F....but I'm getting lazy...
>> I'd like to find a reasonably priced but accurate and durable
>> multimeter with a USB interface and software so I can log temp with
>> some kind of time stamp using my Fluke temp probe.  If someone
>> experience with any I'd like to know what's available new and used.
>> I'm attempting to evaluate some insulation and thermal mass for a
>> passive solar home design.
>> tnx
>>
> the Fluke 289 series has a nice trending graph in it and if you want
> to link
> it to the PC, it has an IR port which many laptops have..including
> desktops.
>    I own a 289, I like it. It can do up to 200 hours of recording
> and data can be read back in a chart etc..
>
>
> --
> http://webpages.charter.net/jamie_5"
>



From 6371373334707613828
X-Google-Thread: fc2a5,8145cd050eab5ccd
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X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
post01.iad01!not-for-mail
From: Jim <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 4CX1500B Plate Voltages SSB/CW-RTTY
Date: Mon, 17 Mar 2008 21:18:15 -0500
Message-ID: <3g9ut31g4tqkbpcdotticoroq0e4hlc3io@4ax.com>
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MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 45
```

```
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15350
```

Gerry;

Thanks for the link. The SB220 had a tap on primary, so when you
switched to CW/RTTY you did not have to retune the amp,
which was probably done by others.

I'll check out the site.

Jim

On Sun, 16 Mar 2008 03:13:49 +0000, Gerry
<breakeronthesideletitslide@yahoo.co.uk> wrote:

```
>Jim wrote:
>> Can anyone tell me what are the normal plate voltages
>> used on this tube in the two modes?  I'm trying to figure out
>> what plate transformer to look for or try to cobble up?
>>
>> I've googled lots of these amplifiers but see no mention
>> of CW/RTTY mode voltages/currents.  It looks like about
>> 3000V on SSB but see not mention of other modes.  My SB220
>> had a tap on primary at the SQR2 point to switch modes,
>> would that be the same for this tube?  What would be good
>> parameters for CW/RTTY operation?
>>
>> Thanks.
>>
>> WA5DXP
>>
>>
>You should be OK with 3KV on the anode + 350V on G2 , de-rating for RTTY
>will depend more on the amount of cooling air and PSU.  Watch the grid
>current as it's only rated at 1W max.
>
>Have a look at care and feeding of power grid tubes on the CPI site
>(they own Eimac), http://www.cpii.com/library.cfm/9 .
>
>Gerry....
```

From 8501953350399967319

```
X-Google-Thread: 112d1e,f6b40d49f2e7980e
X-Google-Thread: fc2a5,f6b40d49f2e7980e
X-Google-Thread: 1131b0,f6b40d49f2e7980e
X-Google-Thread: 10c2ee,f6b40d49f2e7980e
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nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 17 Mar 2008 21:38:17 -0500
Date: Mon, 17 Mar 2008 20:38:07 -0700
From: donald <Donald@dontdoithere.com>
User-Agent: Thunderbird 2.0.0.12 (Windows/20080213)
MIME-Version: 1.0
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair,rec.antiq
ues.radio+phono
Subject: Re: USB Multimeter for Temp ??
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net>
<rNjDj.69$WV5.50@newsfe05.lga> <CmFDj.1620$LV5.642@newssvr19.news.prodigy.net>
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Message-ID: <mo2dnV24ccKEtkLanZ2dnUVZ_q_inZ2d@comcast.com>
Lines: 14
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NNTP-Posting-Host: 71.229.140.148
X-Trace: sv3-KzzfurFiyMSuc1/tAz5UuYslH+WtVvhkUka1n/
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zgmHw8MKomnjxHx5tmWNYAVtAyYLOwE=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com sci.electronics.design:327140
rec.radio.amateur.homebrew:15351 sci.electronics.repair:90019
rec.antiques.radio+phono:94866

Henry Kolesnik wrote:
> Found another option which may be the least expensive and that is a
> DataWatch Elite M2000 temperature logger with LCD display and is RS232
   ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

Google can't find it, how about a link ?

donald
> but works with a conversion cable to USB.  Come with software and can
> store 1,868 samples, sampling at 1 to 255 minutes with a real-time
> clock, -40F to +158F.  Cost $45.00.. Replaceable lithium cell runs it
> for a year.  I have a PDF spec sheet if anyone wants it, let know.
```

```
>



From -4930810365598415094
X-Google-Thread: fc8b1,8341521e01935dd7
X-Google-Thread: 10c2ee,8341521e01935dd7
X-Google-Thread: fc2a5,8341521e01935dd7
X-Google-Thread: 112d1e,8341521e01935dd7
X-Google-Attributes: gidfc8b1,gid10c2ee,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!sn-xt-sjc-03!sn-
xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Richard Knoppow" <dickburk@ix.netcom.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.antiques.radio+phono,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Re: Sylvania R1131C octal tube ?
Date: Mon, 17 Mar 2008 19:48:06 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13tubbhn5jefa06@corp.supernews.com>
References: <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>
<13tp4egkuf3sb69@corp.supernews.com> <PjEDj.2253$jw2.67@trndny04>
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 45
Xref: g2news1.google.com rec.radio.amateur.boatanchors:14345
rec.antiques.radio+phono:94867 rec.radio.amateur.homebrew:15352
sci.electronics.design:327143


"Martin Riddle" <martin_rid@verizon.net> wrote in message
news:PjEDj.2253$jw2.67@trndny04...
>
> "Robert Baer" <robertbaer@localnet.com> wrote in message
> news:13tp4egkuf3sb69@corp.supernews.com...
>> Henry Kolesnik wrote:
>>> I got a couple of the subject tubes which are supposed
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>>> data I'd sure like to see it.  I think it might be a mid
>>> 1960s item as my 1957  Sylvania manual doesn't show it.
>>> thanks
>>>
>>   I have a Sylania Technical Manual of tube data sheets
>> dated 1959 and have the blue add-ons to 1960, and that
>> tube is not listed anywhere in it.
>>   Sorry.
>
> Hi Robert,
```

>
> I have some PDF's of scanned tube manuals(Eimac, Taylor
> RCA), I would love to trade a few for a pdf of the
> Sylvania Manuals. If interested email me.
>
> Cheers
>

There is a Sylvania tube manual on-line at:
http://www.pmillett.com/sylvania_tube_manuals_online.htm

However, it does not cover the R1131C

Lots of other good stuff on this site including several
RCA tube manuals and many books. All in PDF form but _very_
large files.

--

Richard Knoppow
Los Angeles, CA, USA
dickburk@ix.netcom.com

```
From -6639383871742066522
X-Google-Thread: 112d1e,f6b40d49f2e7980e
X-Google-Thread: fc2a5,f6b40d49f2e7980e
X-Google-Thread: 1131b0,f6b40d49f2e7980e
X-Google-Thread: 10c2ee,f6b40d49f2e7980e
X-Google-Attributes: gid112d1e,gidfc2a5,gid1131b0,gid10c2ee,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
nntpserver.com!zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: "William Noble" <nobody@nowhere.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair,rec.antiq
ues.radio+phono
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net>
Subject: Re: USB Multimeter for Temp ??
Date: Sun, 16 Mar 2008 22:48:40 -0700
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
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Xref: g2news1.google.com sci.electronics.design:327167
rec.radio.amateur.homebrew:15353 sci.electronics.repair:90031
```

rec.antiques.radio+phono:94876

there is a plethora of data collection cards, I'd start there - why USB and not PCI? anyway, not my problem - do a search for "data collection cards" you will find thngs like this www.superlogics.com/usb.asp
"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in message news:oHeDj.1493$LV5.53@newssvr19.news.prodigy.net...

>I have a Fluke 87 and a Fluke 80T-150 temperature probe that outputs 1
>mV/deg F....but I'm getting lazy...
> I'd like to find a reasonably priced but accurate and durable multimeter
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> stamp using my Fluke temp probe. If someone experience with any I'd like
> to know what's available new and used. I'm attempting to evaluate some
> insulation and thermal mass for a passive solar home design.
> tnx
>
> --
>
> 73
> Hank WD5JFR

--
Posted via a free Usenet account from http://www.teranews.com

```
From 8754271082880351421
X-Google-Thread: 112d1e,f6b40d49f2e7980e
X-Google-Thread: fc2a5,f6b40d49f2e7980e
X-Google-Thread: 1131b0,f6b40d49f2e7980e
X-Google-Thread: 10c2ee,f6b40d49f2e7980e
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spamkiller2.gnilink.net!gnilink.net!trndny01.POSTED!88769d78!not-for-mail
From: "James Sweet" <jamessweet@hotmail.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair,rec.antiq
ues.radio+phono
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net>
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Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
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rec.radio.amateur.homebrew:15354 sci.electronics.repair:90033
rec.antiques.radio+phono:94881
X-Original-Bytes: 1597
```

"William Noble" <nobody@nowhere.com> wrote in message
news:47ddfb82$0$26101$88260bb3@free.teranews.com...

> there is a plethora of data collection cards, I'd start there - why USB
> and not PCI? anyway, not my problem - do a search for "data collection
> cards"

PCI is going away if not already completely gone on new PCs, USB will be here for quite a while in some form. USB also allows you to easily move the device from one PC to another, and connect it to laptops.

```
From 8243429304047317508
X-Google-Thread: 112d1e,f6b40d49f2e7980e
X-Google-Thread: fc2a5,f6b40d49f2e7980e
X-Google-Thread: 1131b0,f6b40d49f2e7980e
X-Google-Thread: 10c2ee,f6b40d49f2e7980e
X-Google-Attributes: gid112d1e,gidfc2a5,gid1131b0,gid10c2ee,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!69.28.186.77.MISMATCH!hwmpeer03.lga!hwmnpeer01.lga!news.highwinds-
media.com!hw-filter.lga!newsfe15.lga.POSTED!53ab2750!not-for-mail
From: T <nospam.kd1s@cox.nospam.net>
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair,rec.antiq
ues.radio+phono
Subject: Re: USB Multimeter for Temp ??
Message-ID: <MPG.2249387e8bed92298a7de@news.east.cox.net>
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net>
<47ddfb82$0$26101$88260bb3@free.teranews.com>
Organization: The Ace Tomato and Cement Company
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Content-Transfer-Encoding: 7bit
User-Agent: MicroPlanet-Gravity/2.60.2060
Lines: 9
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Xref: g2news1.google.com sci.electronics.design:327179
rec.radio.amateur.homebrew:15355 sci.electronics.repair:90036
rec.antiques.radio+phono:94885

In article <47ddfb82$0$26101$88260bb3@free.teranews.com>,
nobody@nowhere.com says...
> there is a plethora of data collection cards, I'd start there - why USB and
> not PCI?  anyway, not my problem - do a search for "data collection cards"
> you will find thngs like this www.superlogics.com/usb.asp

I think it's because more and more people are moving to laptops and USB,
IEEE-1394 and PC-Card's are the only ports available.




From 8093825157185735972
X-Google-Thread: 112d1e,f6b40d49f2e7980e
X-Google-Thread: fc2a5,f6b40d49f2e7980e
X-Google-Thread: 1131b0,f6b40d49f2e7980e
X-Google-Thread: 10c2ee,f6b40d49f2e7980e
X-Google-Attributes: gid112d1e,gidfc2a5,gid1131b0,gid10c2ee,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr19.news.prodigy.net.POSTED!c4667c2f!not-for-
mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair,rec.antiq
ues.radio+phono
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net>
<rNjDj.69$WV5.50@newsfe05.lga> <CmFDj.1620$LV5.642@newssvr19.news.prodigy.net>
<mo2dnV24ccKEtkLanZ2dnUVZ_q_inZ2d@comcast.com>
Subject: Re: USB Multimeter for Temp ??
Lines: 21
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <MpODj.1643$LV5.165@newssvr19.news.prodigy.net>
NNTP-Posting-Host: 70.128.122.130
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr19.news.prodigy.net 1205842668 ST000 70.128.122.130 (Tue, 18 Mar
2008 08:17:48 EDT)
```

```
NNTP-Posting-Date: Tue, 18 Mar 2008 08:17:48 EDT
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
T[OERYWDPZRORRDXN[O@_WH@YR_B@EXLLBWLOOAFWIWTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Tue, 18 Mar 2008 07:17:49 -0500
Xref: g2news1.google.com sci.electronics.design:327203
rec.radio.amateur.homebrew:15356 sci.electronics.repair:90048
rec.antiques.radio+phono:94893

Donald
ask for one at www.global-sensors.com , they'll send you a PDF
hank
"donald" <Donald@dontdoithere.com> wrote in message
news:mo2dnV24ccKEtkLanZ2dnUVZ_q_inZ2d@comcast.com...
> Henry Kolesnik wrote:
>> Found another option which may be the least expensive and that is a
>> DataWatch Elite M2000 temperature logger with LCD display and is
>> RS232
>   ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
>
> Google can't find it, how about a link ?
>
> donald
>> but works with a conversion cable to USB.  Come with software and can
>> store 1,868 samples, sampling at 1 to 255 minutes with a real-time
>> clock, -40F to +158F.  Cost $45.00.. Replaceable lithium cell runs it
>> for a year.  I have a PDF spec sheet if anyone wants it, let know.
>>
>



From 206312621796518753
X-Google-Thread: fc2a5,f6b40d49f2e7980e
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe07.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <oHeDj.1493$LV5.53@newssvr19.news.prodigy.net> <2593f1e0-88d4-4691-
a772-614139266438@c19g2000prf.googlegroups.com>
<13tr1ti35rp7p60@corp.supernews.com>
Subject: Re: USB Multimeter for Temp ??
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <_YRDj.33$%M6.12@newsfe07.lga>
```

NNTP-Posting-Host: edmokfndckpegejpmhkjjkpbbiejaafi
X-Complaints-To: abuse@charter.net
X-Trace:
meohkjfdkiefkjamgmoeimofopipoaimbfaoplmaddmipkdnedmokfndckpegejpdfogoccdklnobnhdcp
kffdjfbkmfdhmpanmkpmklelbdeddgbapapmmgkgdbjfleneoickjoboohodkb
NNTP-Posting-Date: Tue, 18 Mar 2008 09:20:10 MST
Date: Tue, 18 Mar 2008 12:14:59 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:15357

"msg" <msg@_cybertheque.org_> wrote in message
news:13tr1ti35rp7p60@corp.supernews.com...

> nesesu wrote:
>
> <snip>
> Wow this is promiscuously cross-posted...

Thanks for pointing that out. I was about to say that this is
rec.radio.amateur.homebrew so why not build something. But apparently, it's
just buckshot

..

From -1844081352411035176
X-Google-Thread: fc2a5,20d97904714cd4d9,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!not-for-mail
From: Jim <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Schematic Drawing Software - Something simple with no steep learning
curve
Date: Tue, 18 Mar 2008 22:10:19 -0500
Message-ID: <1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 18
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15358

Can anyone recommend a simple schematic drawing CAD program, not one
of the "do everything" programs that draws living rooms and
skyscrapers, looking for a schematic-only program that does not have
too steep a learning curve, and doesn't cost too much or is freeware

or shareware that won't cost an arm or a leg.

What programs do you use and what are your likes/dislikes/wish list?

I'm trying to settle on something that I will probably only use
occasionally to draw schematics of homebrew projects to file away or
possibly submit for publication. Any suggestions appreciated.

I'm running Windows XP Pro.

Jim, WA5DXP

From 7795803996794013699
X-Google-Thread: fc2a5,20d97904714cd4d9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!sn-xt-sjc-04!sn-xt-sjc-01!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Schematic Drawing Software - Something simple with no steep learning curve
Date: Tue, 18 Mar 2008 22:21:55 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13u11me8ot3mi03@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com>
In-Reply-To: <1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 28
Xref: g2news1.google.com rec.radio.amateur.homebrew:15359

Jim wrote:

> Can anyone recommend a simple schematic drawing CAD program, not one
> of the "do everything" programs that draws living rooms and
> skyscrapers, looking for a schematic-only program that does not have
> too steep a learning curve, and doesn't cost too much or is freeware
> or shareware that won't cost an arm or a leg.
>
> What programs do you use and what are your likes/dislikes/wish list?
>
> I'm trying to settle on something that I will probably only use
> occasionally to draw schematics of homebrew projects to file away or

> possibly submit for publication. Any suggestions appreciated.
>
> I'm running Windows XP Pro.
>
> Jim, WA5DXP

I use 'xcircuit' (URL (may have changed): http://bach.ece.jhu.edu/~tim/programs/xcircuit/)

It needs X11 but you can install 'cygwin' on XP Pro and X11 and it
should run fine.

To see an example drawing please see my linear page:
http://www.cybertheque.org/homebrew/837_linear

Michael

From -6723603503923931628
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 19 Mar 2008 00:39:40 -0500
From: "Jim" <kill-spam@no-spam.org>
Newsgroups: rec.radio.amateur.homebrew
References: <1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com>
Subject: Re: Schematic Drawing Software - Something simple with no steep learning curve
Date: Tue, 18 Mar 2008 22:39:36 -0700
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 080319-0, 03/19/2008), Outbound message
X-Antivirus-Status: Clean
Message-ID: <obCdncoAur2AOn3anZ2dnUVZ_rKtnZ2d@comcast.com>
Lines: 62
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.181.200.74
X-Trace: sv3-VaDnOAh5y2UMujfibKvBqePVRc1kgTAAQD5qzsfvQMDx14Azyp1VGp5jjixDoEIho0iFpEX7gSD/3OP!oObx7UZ73NtDwK+9abo4F4t1vlFpB9xQR3qaTiPXdDVDryGYpXEyjCCXsvMu3DYffAFPsiur12XY!ZVUV7oxD9UKeUsSH5ZOzPMdKMTTi2A==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15360

Jim wrote:

> Can anyone recommend a simple schematic drawing CAD program, not one of the "do everything" programs that draws living rooms and skyscrapers, looking for a schematic-only program that does not have too steep a learning curve, and doesn't cost too much or is freeware or shareware that won't cost an arm or a leg.
>
> What programs do you use and what are your likes/dislikes/wish list?
>
> I'm trying to settle on something that I will probably only use occasionally to draw schematics of homebrew projects to file away or possibly submit for publication. Any suggestions appreciated.
>
> I'm running Windows XP Pro.
>
> Jim, WA5DXP

There is a schematic draw program that works under WINXP.   It is called TINYCAD.

http://tinycad.sourceforge.net/index.html

One nice detail is, it can generate a netlist that you could use with a board layout program like FREEPCB.

http://www.freepcb.com/

==

==

A different program with a fairly steep learning curve has both a schematic diagram and a powerful board layout program is KICAD.

http://www.lis.inpg.fr/realise_au_lis/kicad/

Tinycad is probably a nice answer for an easy to learn schematic program, I included the other two programs as general information in case somebody wants to also do board layouts....

Jim Pennell
N6BIU

```
--

22:40 Pacific Time Zone
Mar 18 2008

International Time
05:40 UTC
19.03.2008




From 3040029212175244085
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Schematic Drawing Software - Something simple with no steep learning
curve
Date: Wed, 19 Mar 2008 00:42:57 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.03.19.07.42.57.928813@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 12
Organization: Octanews
NNTP-Posting-Date: 19 Mar 2008 02:43:09 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15361

Hi,

On Tue, 18 Mar 2008 22:10:19 -0500, Jim wrote:

> I'm trying to settle on something that I will probably only use
> occasionally to draw schematics of homebrew projects to file away or
> possibly submit for publication.

Try using there with M$ Paint:
http://geek.scorpiorising.ca/symbols.html

Cheers!


From -560752902055733099
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!feeder.news-service.com!tudelft.nl!binfeed2.tudelft.nl!
news1.tudelft.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
```

Subject: Re: Schematic Drawing Software - Something simple with no steep learning curve
From: SamSvL <samsvl@nlr.nl>
References: <1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com>
Organization: NLR
Message-ID: <Xns9A665C970BF9Csamsvlnlrnl@192.87.166.15>
User-Agent: Xnews/5.04.25
X-Complaints-To: sysadmin@tudelft.nl
Date: Wed, 19 Mar 2008 09:07:09 +0100
Lines: 27
NNTP-Posting-Host: 137.17.137.222 (137.17.137.222)
NNTP-Posting-Date: Wed, 19 Mar 2008 09:07:09 +0100
X-Trace: c7a1247e0c9ad2cb42c7b27240
Xref: g2news1.google.com rec.radio.amateur.homebrew:15362

Jim <nospam@nospam.com> wrote in news:1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com:

> Can anyone recommend a simple schematic drawing CAD program, not one
> of the "do everything" programs that draws living rooms and
> skyscrapers, looking for a schematic-only program that does not have
> too steep a learning curve, and doesn't cost too much or is freeware
> or shareware that won't cost an arm or a leg.
>
> What programs do you use and what are your likes/dislikes/wish list?
>
> I'm trying to settle on something that I will probably only use
> occasionally to draw schematics of homebrew projects to file away or
> possibly submit for publication. Any suggestions appreciated.
>
> I'm running Windows XP Pro.
>
> Jim, WA5DXP
>
>
>

TINA_TI (http://focus.ti.com/docs/toolsw/folders/print/tina-ti.html)
gives you simulation in the same package, and easy to learn.

Sam

From 4991882582545046663
X-Google-Thread: fc2a5,20d97904714cd4d9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!e39g2000hsf.googlegroups.com!not-for-mail
From: Keith Dysart <Keith.Dysart@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Schematic Drawing Software - Something simple with no steep

```
     learning curve
Date: Wed, 19 Mar 2008 03:18:49 -0700 (PDT)
Organization: http://groups.google.com
Lines: 12
Message-ID: <9f21e4e5-ffa6-4bce-b5f8-d4bdf2d5dcae@e39g2000hsf.googlegroups.com>
References: <1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com>
NNTP-Posting-Host: 64.230.25.25
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1205921931 23115 127.0.0.1 (19 Mar 2008 10:18:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 19 Mar 2008 10:18:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e39g2000hsf.googlegroups.com; posting-host=64.230.25.25;
     posting-account=KKezqAoAAAAL2PWtS3z9PvepJbobexaR
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     MathPlayer 2.10b; .NET CLR 1.1.4322; InfoPath.1; .NET CLR
2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15363

On Mar 18, 11:10=A0pm, Jim <nos...@nospam.com> wrote:
> Can anyone recommend a simple schematic drawing CAD program, not one
> of the "do everything" programs that draws living rooms and
> skyscrapers, looking for a schematic-only program that does not have
> too steep a learning curve, and doesn't cost too much or is freeware
> or shareware that won't cost an arm or a leg.

LTspice does schematics as a side effect of simulation. Free.
http://www.linear.com/designtools/software/switchercad.jsp

=2E..Keith



From 8596087633457162291
X-Google-Thread: fc2a5,20d97904714cd4d9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!not-for-
mail
From: Jim <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Schematic Drawing Software - Something simple with no steep learning
curve
Date: Wed, 19 Mar 2008 07:01:40 -0500
Message-ID: <5402u3hi1c6qu7iapabj95aaprkl9kiv4j@4ax.com>
References: <1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com>
<13u11me8ot3mi03@corp.supernews.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
```

```
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 36
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15364

That is a beautiful schematic diagram.  Jim




On Tue, 18 Mar 2008 22:21:55 -0600, msg <msg@_cybertheque.org_> wrote:

>Jim wrote:
>
>> Can anyone recommend a simple schematic drawing CAD program, not one
>> of the "do everything" programs that draws living rooms and
>> skyscrapers, looking for a schematic-only program that does not have
>> too steep a learning curve, and doesn't cost too much or is freeware
>> or shareware that won't cost an arm or a leg.
>>
>> What programs do you use and what are your likes/dislikes/wish list?
>>
>> I'm trying to settle on something that I will probably only use
>> occasionally to draw schematics of homebrew projects to file away or
>> possibly submit for publication.  Any suggestions appreciated.
>>
>> I'm running Windows XP Pro.
>>
>> Jim, WA5DXP
>
>
>I use 'xcircuit' (URL (may have changed): http://bach.ece.jhu.edu/~tim/programs/
xcircuit/)
>
>It needs X11 but you can install 'cygwin' on XP Pro and X11 and it
>should run fine.
>
>To see an example drawing please see my linear page:
>http://www.cybertheque.org/homebrew/837_linear
>
>Michael




From 4201217628684654260
X-Google-Thread: fc2a5,20d97904714cd4d9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!not-for-
```

```
mail
From: Jim <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Schematic Drawing Software - Something simple with no steep  learning
curve
Date: Wed, 19 Mar 2008 07:07:26 -0500
Message-ID: <r902u3p0hhhmv2q1c21d3rne7d82id3qrs@4ax.com>
References: <1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com> <9f21e4e5-ffa6-4bce-b5f8-
d4bdf2d5dcae@e39g2000hsf.googlegroups.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 22
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15365

Dear Fellows;

Thanks for the good leads, I'll be busy next few days trying out these
programs.  Thanks again for your help.




On Wed, 19 Mar 2008 03:18:49 -0700 (PDT), Keith Dysart
<Keith.Dysart@gmail.com> wrote:

>On Mar 18, 11:10�pm, Jim <nos...@nospam.com> wrote:
>> Can anyone recommend a simple schematic drawing CAD program, not one
>> of the "do everything" programs that draws living rooms and
>> skyscrapers, looking for a schematic-only program that does not have
>> too steep a learning curve, and doesn't cost too much or is freeware
>> or shareware that won't cost an arm or a leg.
>
>LTspice does schematics as a side effect of simulation. Free.
>http://www.linear.com/designtools/software/switchercad.jsp
>
>...Keith




From -2462741621264683663
X-Google-Thread: fc2a5,20d97904714cd4d9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.hamilton.edu!
news.hamilton.edu.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 19 Mar 2008 10:19:52 -0500
From: Brian Collett <bcollett@hamilton.edu>
Newsgroups: rec.radio.amateur.homebrew
```

Subject: Re: Schematic Drawing Software - Something simple with no steep learning curve
Organization: Hamilton College
References: <1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com>
User-Agent: MT-NewsWatcher/3.5.2 (Intel Mac OS X)
Date: Wed, 19 Mar 2008 11:18:00 -0400
Message-ID: <bcollett-01E736.11175019032008@news.hamilton.edu>
Lines: 28
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 150.209.97.109
X-Trace: sv3-OmgH/CKO7bnq48itdiaUiHDROA78+hDGxU7W9BcDs96QC4gtrlwei1Bt+rP0aT42q6n6Iwqc9U8AeuA!1slppfUMGjPP5ft1gADchUeWbVubtmCI2WzgehjLKrbzQclJeDjIL9adiwHP5L30h5+vxSpsKQ2Y!Ac+18PmeYs9vnWi8Kyzj
X-Complaints-To: abuse@hamilton.edu
X-DMCA-Complaints-To: sbritton@hamilton.edu
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15366

In article <1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com>,
Jim <nospam@nospam.com> wrote:

> Can anyone recommend a simple schematic drawing CAD program, not one of the "do everything" programs that draws living rooms and skyscrapers, looking for a schematic-only program that does not have too steep a learning curve, and doesn't cost too much or is freeware or shareware that won't cost an arm or a leg.
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> I'm running Windows XP Pro.
>
> Jim, WA5DXP

One that no-one else seems to have suggested is the PCB/Schematic package from ExpressPCB.com. This is a freeware package for Windows that is very easy to use (no Cygwin baggage). It can export to bitmaps in various resolutions or to Windows metafile. Obviously it can also export to the PCB program, which is also very nice, but you don't need to use that part of you don't need.
Brian.
Disclaimer: I have no connection with ExpressPCB other than being a very satisfied customer for about 5 years.

From 4324402863268317212

```
X-Google-Thread: fc2a5,8145cd050eab5ccd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe20.lga.POSTED!53ab2750!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <fhgot3tqj4jcmqp38eqfi19knt0f5vi3r1@4ax.com> <47dc9068$1_4@mk-
nntp-2.news.uk.tiscali.com> <3g9ut31g4tqkbpcdotticoroq0e4hlc3io@4ax.com>
Subject: Re: 4CX1500B Plate Voltages SSB/CW-RTTY
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <kbgEj.29434$QC.19515@newsfe20.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe20.lga 1205964624 72.209.25.33 (Wed, 19 Mar 2008 15:10:24 MST)
NNTP-Posting-Date: Wed, 19 Mar 2008 15:10:24 MST
Organization: Cox
Date: Wed, 19 Mar 2008 18:10:23 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:15367


"Jim" <nospam@nospam.com> wrote in message
news:3g9ut31g4tqkbpcdotticoroq0e4hlc3io@4ax.com...
> Gerry;
>
> Thanks for the link.  The SB220 had a tap on primary, so when you
> switched to CW/RTTY you did not have to retune the amp,
> which was probably done by others.
>
> I'll check out the site.
>
> Jim
>
>
>
As a note, for information...

The SB-20 was designed to meet the old FCC regulations which
dictated power input, not RF output.

73,  Pete




From -3383300194383087966
X-Google-Thread: fc2a5,20d97904714cd4d9
X-Google-Attributes: gidfc2a5,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!not-for-mail
From: Jim <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Schematic Drawing Software - Something simple with no steep learning curve
Date: Wed, 19 Mar 2008 17:37:28 -0500
Message-ID: <as43u3hq6ljolpocptpjlr6qmii9p22fq6@4ax.com>
References: <1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com> <bcollett-01E736.11175019032008@news.hamilton.edu>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 60
Organization: Newshosting.com - Highest quality at a great price! www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15368

Brian;

I came across that one last night and have it installed and testing it. The only thing is I could not find a symbol for a terminal strip. Also, can you tell me how to place a heavy DOT where two lines intersect on the schematic where they are supposed to join?
Is there a place where you can find more symbols for it? I think in a few hours time one could become proficient in it. I still need to learn how to adjust sizes and get the text to align inside the symbols correctly, it's not automatic centering. I'm probably doing something wrong... maybe I should read the instructions as a last resort.. he he..

I also have TINYCAD installed and have not tried it yet.

The good part you just do the PCB part and send it off and receive your PCB in a few days.... he he... So far it's easy to use. I also have the others mentioned except the first one, could not understand what CYGWIN is, but the schematic sure was a beauty. There is a WINDOWS .EXE version, but the say it's not debugged and I think you need to install other programs which I have no clue about, so was afraid to install it.

Thanks to all.

On Wed, 19 Mar 2008 11:18:00 -0400, Brian Collett
<bcollett@hamilton.edu> wrote:

```
>In article <1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com>,
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From -2604731931891489447
X-Google-Thread: fc2a5,20d97904714cd4d9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out01b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-
in-02.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-
nntp-07.am2.easynews.com.POSTED!not-for-mail
From: "john jardine" <john.jardine@idnet.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com>
Subject: Re: Schematic Drawing Software - Something simple with no steep learning
curve
Lines: 41
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <wyiEj.5845$yq3.3871@en-nntp-07.am2.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
```

will be unable to process your complaint properly.
Date: Thu, 20 Mar 2008 00:51:44 -0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:15369

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news:1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com...
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Had a similar need for nice drawings to record the occasional personal project that I'd somehow managed to complete. My PCBs are done by a PCB guy so I just wanted a straightforward circuit drawing prog' and not some bloated chimera of a full-blown PCB design package.
Prog' needed to understand what a wire/connection is and that connected up components will get moved about on a drawing. Ended up with 'TinyCad'.

New libary components are easy to draw and a drawing is quick to connect up and edit. Will save as a '.PNG' file so anyone can view it. Has one or two oddities but costs nothing, is small sized and quick to learn.
http://img216.imageshack.us/img216/7565/50mhzimpedancemeteruv2.png
is an example drawing.
It's obvious I'm European as the transistors have those strange circles round 'em and those resistors and capacitors look odd :) but you'll get the drift as to the kind of graphic elements that can be easily added to a drawing.
There's also a Tinycad group on Yahoo, where a number of extra symbol libraries are available. (including one of mine :)

From -6110289010956979512
X-Google-Thread: fc2a5,20d97904714cd4d9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!

news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 19 Mar 2008 21:38:17 -0500
From: "Bryan" <bryan.swadenerNOSPAM@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com>
Subject: Re: Schematic Drawing Software - Something simple with no steep learning curve
Date: Wed, 19 Mar 2008 19:38:44 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <8bOdnRtaTpWEU3zanZ2dnUVZ_judnZ2d@giganews.com>
Lines: 32
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-DoEM8TDtgOAkzNfLbFMiSmkN/c9MSK1skVjosztZx+MHb7r+e/
mTHFMyA0LY3whOVbZ4jRXp4lSo/Ax!
FUsjGreE4uWqzPWrFTpV+VumB+HUgGfYbgFLB1NJPL8KWDy2bmizrtcazITs6nPx2wCjtNz6IdM=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15370

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Hi Jim,

Along with the others mentioned, Eagle (http://www.cadsoftusa.com/) is a schematic capture and PCB layout package that's free for personal use (with some limitations). The learning curve might be a bit steep but the price is right, and it'll produce photoplot files for your favorite PCB house.

For occaisional & simple drawing, you can also use Visio (comes with some electronic symbols). For example, I drew this in Visio and "printed" it to PDF:

http://www.geocities.com/bswadener/temp/sb220_relay-driver-soft-start.pdf.

Bryan WA7PRC

From -5050313905731868447
X-Google-Thread: fc2a5,20d97904714cd4d9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!not-for-mail
From: Jim <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Schematic Drawing Software - Something simple with no steep learning curve
Date: Thu, 20 Mar 2008 07:59:06 -0500
Message-ID: <crn4u3ti31n38c2p779s1ljnj8d55su29l@4ax.com>
References: <1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com> <wyiEj.5845$yq3.3871@en-nntp-07.am2.easynews.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 53
Organization: Newshosting.com - Highest quality at a great price! www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15371

I have it installed and will search out the Yahoo group for the
extra libraries. Looking for a terminal strip now... he he..

Jim

On Thu, 20 Mar 2008 00:51:44 -0000, "john jardine"
<john.jardine@idnet.co.uk> wrote:

>
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From -8404071186848838653
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nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!not-for-
mail
From: Jim <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Schematic Drawing Software - Something simple with no steep learning
curve
Date: Thu, 20 Mar 2008 08:09:59 -0500
Message-ID: <ktn4u31jbn6i2rvsu1c3tu398s25pubt8b@4ax.com>
References: <1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com>
<8bOdnRtaTpWEU3zanZ2dnUVZ_judnZ2d@giganews.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
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Lines: 67
Organization: Newshosting.com - Highest quality at a great price! www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15372

Bryan;

You are the second person to recommend Visio, one by a local ham friend who is a network professional and ardent homebrewer. I went to Visio site, and ended up looking at what I think is a plugin called Electra 2005, which I think is some kind of enhancement or such. It's a real bargain at $799.00.... he he...

I will install Visio tonight and give it a try too, can you point me to additional symbol libraries for it or can you create your own?

Someone above (geek) sent me a .zip file with thousands of symbols that could possibly be imported. So far I have:

Smart Draw
Tiny Cad
Express SCH and Express PCB
Geek symbols for use with paint program

installed thanks to all your kind help.

Let the trials begin...

Jim

On Wed, 19 Mar 2008 19:38:44 -0800, "Bryan" <bryan.swadenerNOSPAM@comcast.net> wrote:

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From -5200945601770459013
X-Google-Thread: fc2a5,20d97904714cd4d9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.hamilton.edu!
news.hamilton.edu.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 20 Mar 2008 08:30:05 -0500
From: Brian Collett <bcollett@hamilton.edu>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Schematic Drawing Software - Something simple with no steep learning
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Organization: Hamilton College
References: <1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com>
<bcollett-01E736.11175019032008@news.hamilton.edu>
<as43u3hq6ljolpocptpjlr6qmii9p22fq6@4ax.com>
User-Agent: MT-NewsWatcher/3.5.2 (Intel Mac OS X)
Date: Thu, 20 Mar 2008 09:28:09 -0400
Message-ID: <bcollett-74013B.09280720032008@news.hamilton.edu>
Lines: 30
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 150.209.97.109
X-Trace: sv3-CS3i0CZrFKtJzVzBVX/bfKFXtWB+8da4I0+Autu4/pb/AKDMslZIE0unnFNS/
UBDGi7Tbgqcxg/GYzH!6I8wdnXJZhcJyd5iHseCIcHlE/
MQ1NrlBMDVDCMrA3yFCB6MsvWKLUbIARxmkNtd61hu24ym+l4E!gQns/LqXhveI/mFyWPZf
X-Complaints-To: abuse@hamilton.edu
X-DMCA-Complaints-To: sbritton@hamilton.edu
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37

Xref: g2news1.google.com rec.radio.amateur.homebrew:15373

Referring to ExpressPCB

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> he..
>

I don't have a solution for the dot problem because I prefer the
convention that says that four-way crosses are noni-ntersecting and use
staggered T-junctions for places where 4 wires meet--less chance to
confuse my students.
For a terminal strip you can us pretty much any connector type, since
the connectors are basically just named points on the sheet, or just
build your own to make it look the way you want. It is really easy to
create new components and put them in the library.
And, yes, you probably should look at the instructions. They tend to be
concise and complete.
Brian.

From 2543042705017337999
X-Google-Thread: fc2a5,20d97904714cd4d9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe05.lga.POSTED!53ab2750!not-for-mail
From: Smakutus Maximus <no.spam@my.pants>
User-Agent: Thunderbird 2.0.0.12 (Windows/20080213)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Schematic Drawing Software - Something simple with no steep learning
curve
References: <1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com>
In-Reply-To: <1vh0u39ntvch3vi3981oqdmehf9jfmfsfg@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 080313-0, 03/13/2008), Outbound message
X-Antivirus-Status: Clean
Lines: 30

Message-ID: <U1FEj.58$qi6.39@newsfe05.lga>
NNTP-Posting-Host: jkonhpkcapfkohaabikllnanjpcmfebo
X-Complaints-To: abuse@charter.net
X-Trace:
dbkajaeeceiapgbcgmoeimofopipoaimfdcfgciminjojbnjjkonhpkcapfkohaagbmnndloakcblcokle
pinpciaalfgocoanmkpmklelbdeddgghanplpoipiebjiineoickjoboohodkb
NNTP-Posting-Date: Thu, 20 Mar 2008 19:27:00 MST
Date: Thu, 20 Mar 2008 21:26:57 -0600
Xref: g2news1.google.com rec.radio.amateur.homebrew:15374

Jim wrote:
> Can anyone recommend a simple schematic drawing CAD program, not one
> of the "do everything" programs that draws living rooms and
> skyscrapers, looking for a schematic-only program that does not have
> too steep a learning curve, and doesn't cost too much or is freeware
> or shareware that won't cost an arm or a leg.
>
> What programs do you use and what are your likes/dislikes/wish list?
>
> I'm trying to settle on something that I will probably only use
> occasionally to draw schematics of homebrew projects to file away or
> possibly submit for publication. Any suggestions appreciated.
>
> I'm running Windows XP Pro.
>
> Jim, WA5DXP
>
>
>

Try DIYLayout:
http://www.storm-software.co.yu/diy/index.php

It was originally designed for DIY guitar effects, but as it's maturing
you can do a lot more than that with it.
It's completely free and extremely easy to use.
I think it's only for Windowz, so you Mac guys are on your own. ;D

Cheers,
  - JJG

From 6971686776360467165
X-Google-Thread: fc2a5,a021e5b27d1ddca6,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!newspeer.tds.net!
216.170.153.140.MISMATCH!newsreading01.news.tds.net!038640c9!not-for-mail
Reply-To: "steve carey" <scarey@tds.net>
From: "steve carey" <scarey@tds.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Heathkit HA Warrior
Lines: 3

X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <kvftj.42946$G23.13405@newsreading01.news.tds.net>
Date: Fri, 15 Feb 2008 12:23:44 GMT
NNTP-Posting-Host: 72.168.99.101
X-Complaints-To: news@tds.net
X-Trace: newsreading01.news.tds.net 1203078224 72.168.99.101 (Fri, 15 Feb 2008 06:23:44 CST)
NNTP-Posting-Date: Fri, 15 Feb 2008 06:23:44 CST
Organization: TDS.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15271

Looking for a HA 10 Heathkit Warrior any out there for sale Steve K9yk

From -2063781325964265595
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!volia.net!news2.volia.net!feed-A.news.volia.net!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Spamm Trappe <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article
Date: 15 Feb 2008 16:26:32 GMT
Lines: 7
Message-ID: <slrnfrbf9o.2ode.bit-bucket@shell.config.com>
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<478bda15$0$16036$5fc30a8@news.tiscali.it>
<COudnSYWppIMYhbanZ2dnUVZ_vCknZ2d@comcast.com> <d2Uij.22583$m6.7751@newsfe18.lga>
<h_qdnZCyvdtGhCjanZ2dnUVZ_qainZ2d@comcast.com>
X-Trace: individual.net X8leuR9c6Ngk+u8mfUDBjAR5qI9IGPmgtRTEqdp6FmB7nFaU4D
Cancel-Lock: sha1:CD2Sp4+pBoUakF+q1eczv7BsNHs=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15272

On Thu, 14 Feb 2008 22:49:38 -0600, Pete KE9OA wrote:
>
> Could you please send me another copy of that article I sent
> you...............I had to format my hard drive, and I lost that
> article.

Ahhh.... Another satisfied windoz user.

From -4980784667067370589
X-Google-Thread: fc2a5,aad57ac90144b54a
X-Google-Attributes: gidfc2a5,public,usenet

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!aioe.org!not-for-mail
From: Clever Monkey <spamtrap@clevermonkey.org.INVALID>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 48 volt power supply
Date: Fri, 15 Feb 2008 11:26:32 -0500
Organization: Substitute "clvrmnky" for "spamtrap" and revalidate the rest
 of the address to reply directly.
Lines: 20
Message-ID: <fp4eh9$h6c$2@aioe.org>
References: <40f420a4-ef9f-4451-bba9-1450d5ada576@1g2000hsl.googlegroups.com>
NNTP-Posting-Host: 4Es6YBmmDC/sujh7nKLN9A.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
In-Reply-To:
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15273

jimmie68@gmail.com wrote:
> I was thinking about using a UPS as a power supply for an amplifier.
> The UPS is rated at over 2KW and uses 48 volts on the DC bus. I have
> tried powering an amp directly from the batteries and it seems to work
> OK. Battery pack is rate at 20 amp/hr. The inverter side of the UPS is
> dead but the charger side is still functional. The plan is to remove
> the inverter circuit completely. Can anyone think of anything wrong
> with doing this.
>

Bear in mind that even with light use, the batteries will eventually
have to be replaced. APC, for example, rates their SOHO UPS devices
with replaceable batteries at 2-3 years between change-ups.

However, this is an excellent way of maintaining a decent shack when the
lights go out.
--
clvrmnky <mailto:spamtrap@clevermonkey.org>

Direct replies to this address will be blacklisted. Replace "spamtrap"
with my name to contact me directly.

From 7501189312012568343
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news1.google.com!news.glorb.com!news-out.octanews.net!indigo.octanews.net!auth.news-2.mpls.iphouse.com.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article

From: Bert Hyman <bert@iphouse.com>
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<478bda15$0$16036$5fc30a8@news.tiscali.it>
<COudnSYWppIMYhbanZ2dnUVZ_vCknZ2d@comcast.com> <d2Uij.22583$m6.7751@newsfe18.lga>
<h_qdnZCyvdtGhCjanZ2dnUVZ_qainZ2d@comcast.com> <slrnfrbf9o.2ode.bit-bucket@shell.config.com>
Organization: Not so you'd notice
Message-ID: <Xns9A457145285CEVeebleFetzer@127.0.0.1>
User-Agent: Xnews/2006.08.24
Date: 15 Feb 2008 17:08:03 GMT
Lines: 18
NNTP-Posting-Date: 15 Feb 2008 11:08:03 CST
NNTP-Posting-Host: eccf9da2.auth.newsreader.iphouse.com
X-Trace:
DXC=1I@^E6kI[_e`@noE4\P^Me_6RIS\>jRccFbE0<hKBJToH4dojIPP>BfD1kiRiW\QFdZgRhQGSTe:nh
6Q1TR0cFnfSm]9NbUV4Qg^LleMLX9?=d
X-Complaints-To: abuse@iphouse.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15274

bit-bucket@config.com (Spamm Trappe) wrote in
news:slrnfrbf9o.2ode.bit-bucket@shell.config.com:

> On Thu, 14 Feb 2008 22:49:38 -0600, Pete KE9OA wrote:
>>
>> Could you please send me another copy of that article I sent
>> you................I had to format my hard drive, and I lost that
>> article.
>
> Ahhh.... Another satisfied windoz user.

Disk failure or corruption is unique to Windows?

Is there some magic in all other operating systems that prevents disk
failures?

--
Bert Hyman | St. Paul, MN | bert@iphouse.com

From 8985629144461419804
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!cycny01.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc02.POSTED!f4af025b!not-for-mail
From: "Norm Mann" <folder0735@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<478bda15$0$16036$5fc30a8@news.tiscali.it>
<COudnSYWppIMYhbanZ2dnUVZ_vCknZ2d@comcast.com> <d2Uij.22583$m6.7751@newsfe18.lga>
<h_qdnZCyvdtGhCjanZ2dnUVZ_qainZ2d@comcast.com> <slrnfrbf9o.2ode.bit-bucket@shell.config.com> <Xns9A457145285CEVeebleFetzer@127.0.0.1>
Subject: Re: April 1977 QST article

```
Lines: 29
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <EJstj.873$we5.858@trnddc02>
Date: Sat, 16 Feb 2008 03:26:28 GMT
NNTP-Posting-Host: 71.102.238.47
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc02 1203132388 71.102.238.47 (Fri, 15 Feb 2008 22:26:28 EST)
NNTP-Posting-Date: Fri, 15 Feb 2008 22:26:28 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:15275


"Bert Hyman" <bert@iphouse.com> wrote in message
news:Xns9A457145285CEVeebleFetzer@127.0.0.1...
> bit-bucket@config.com (Spamm Trappe) wrote in
> news:slrnfrbf9o.2ode.bit-bucket@shell.config.com:
>
>> On Thu, 14 Feb 2008 22:49:38 -0600, Pete KE9OA wrote:
>>>
>>> Could you please send me another copy of that article I sent
>>> you................I had to format my hard drive, and I lost that
>>> article.
>>
>> Ahhh....  Another satisfied windoz user.
>
> Disk failure or corruption is unique to Windows?
>
> Is there some magic in all other operating systems that prevents disk
> failures?

Not necessarily, but Windows has been subject to an extreme amount of code
bloat, in comparison to some other OS's, which tends to make the effect of
any disk problem worse for Windows.
The problem is not the OS, it's the lack of backing up or making hardcopies
of data one wishes to save before the disk fails.

-NM






From 2458364784933696269
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 16 Feb 2008 02:54:07 -0600
```

From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<478bda15$0$16036$5fc30a8@news.tiscali.it>
<COudnSYWppIMYhbanZ2dnUVZ_vCknZ2d@comcast.com> <d2Uij.22583$m6.7751@newsfe18.lga>
<h_qdnZCyvdtGhCjanZ2dnUVZ_qainZ2d@comcast.com> <slrnfrbf9o.2ode.bit-bucket@shell.config.com> <Xns9A457145285CEVeebleFetzer@127.0.0.1>
<EJstj.873$we5.858@trnddc02>
Subject: Re: April 1977 QST article
Date: Sat, 16 Feb 2008 02:54:15 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <6L-dnYdixfoyOSvanZ2dnUVZ_gadnZ2d@comcast.com>
Lines: 53
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.239.37.56
X-Trace:
sv3-3i4gUZwtUA3YY+SyAO4UDXFwFYnG7uxqfTT864oqB9n7t48IpOjJlyTmwDAC8+ObSUwpGU5Rg/Abzm/!vJrpQyUET50y8vdXX07HrFBp9rON/AJAAJ6AfMnHBnGTthkOuqtrhGBA8jKZHt9PHKL85vtCtvFx!PGTM5Pf3PZ/QJTitkLnyVU5nPPiq
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15276

Neither of those issues is the problem. It was a virus. I regularly make DVD backups of all data whenever I format my hard drives, but in this case, I trusted that fact that I would be able to transfer all of my important data to my secondary (slave) hard drive.
Unfortunately, when I reinstalled Windows XP Pro, the crummy operating system didn't recognize my backup drive unless I formatted it. To make matters worse, the stupid, stupid, stupid Western Digital "Data Lifeguard" software would not mount my backup drive onto the system unless I reformatted that also. There was no option to configure my backup drive into the system unless I actually formatted it and lost all of my backup data. It looks like Western Digital is following Microsuck's footsteps. I should have transferred all of my important data either to a DVD or to my Linux system. Never again a Western Digital drive!
The fact remains though, that I still need a copy of that article from at least one of the 10 people that I was nice enough to forward it to. That would help me much more than the various "lectures" about what I should have done!

Pete

"Norm Mann" <folder0735@hotmail.com> wrote in message
news:EJstj.873$we5.858@trnddc02...

```
>
> "Bert Hyman" <bert@iphouse.com> wrote in message
> news:Xns9A457145285CEVeebleFetzer@127.0.0.1...
>> bit-bucket@config.com (Spamm Trappe) wrote in
>> news:slrnfrbf9o.2ode.bit-bucket@shell.config.com:
>>
>>> On Thu, 14 Feb 2008 22:49:38 -0600, Pete KE9OA wrote:
>>>>
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>>>> article.
>>>
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>>
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> any disk problem worse for Windows.
> The problem is not the OS, it's the lack of backing up or making
> hardcopies of data one wishes to save before the disk fails.
>
> -NM
>
>
>
```

```
From -7220466061342096846
X-Google-Thread: fc2a5,7d96d660d89e691b,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!fdn.fr!
club-internet.fr!feedme-small.clubint.net!newsfeed00.sul.t-online.de!t-online.de!
newsfeed.t-com.hr!news3.t-com.hr!not-for-mail
From: "Juka" <juraj.slat@ka.htnet.hr>
Newsgroups: rec.radio.amateur.homebrew
Subject: HAWK
Date: Sat, 16 Feb 2008 10:15:28 +0100
Organization: T-Com
Lines: 5
Message-ID: <fp69e6$gfh$3@ss408.t-com.hr>
NNTP-Posting-Host: 78-3-219-238.adsl.net.t-com.hr
X-Trace: ss408.t-com.hr 1203153158 16881 78.3.219.238 (16 Feb 2008 09:12:38 GMT)
X-Complaints-To: abuse@t-com.hr
NNTP-Posting-Date: Sat, 16 Feb 2008 09:12:38 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
```

```
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Xref: g2news1.google.com rec.radio.amateur.homebrew:15277
```

Need service manual for Rural Radio Telephone Link ,,,, Type HAWK -
Exicom International .
9A7KSJ

```
From -2535307122682175025
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-
mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<478bda15$0$16036$5fc30a8@news.tiscali.it>
<COudnSYWppIMYhbanZ2dnUVZ_vCknZ2d@comcast.com> <d2Uij.22583$m6.7751@newsfe18.lga>
<h_qdnZCyvdtGhCjanZ2dnUVZ_qainZ2d@comcast.com> <slrnfrbf9o.2ode.bit-
bucket@shell.config.com> <Xns9A457145285CEVeebleFetzer@127.0.0.1>
<EJstj.873$we5.858@trnddc02> <6L-dnYdixfoyOSvanZ2dnUVZ_gadnZ2d@comcast.com>
Subject: Re: April 1977 QST article
Lines: 26
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <7XAtj.36086$yE1.35797@attbi_s21>
NNTP-Posting-Host: 12.219.130.17
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1203166019 12.219.130.17 (Sat, 16 Feb 2008 12:46:59 GMT)
NNTP-Posting-Date: Sat, 16 Feb 2008 12:46:59 GMT
Organization: AT&T ASP.att.net
Date: Sat, 16 Feb 2008 12:46:59 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15278
```

> Unfortunately, when I reinstalled Windows XP Pro, the crummy operating
> system didn't recognize my backup drive unless I formatted it. To make
> matters worse, the stupid, stupid, stupid Western Digital "Data Lifeguard"
> software would not mount my backup drive onto the system unless I
> reformatted that also. There was no option to configure my backup drive
> into the system unless I actually formatted it and lost all of my backup
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> should have transferred all of my important data either to a DVD or to my
> Linux system.

> Never again a Western Digital drive!
> The fact remains though, that I still need a copy of that article from at
> least one of the 10 people that I was nice enough to forward it to. That
> would help me much more than the various "lectures" about what I should
> have done!
>
> Pete

GM Pete. I recommend "Ghost" to make mirror bootable images of hard drives.
Howsomever, I just got back from a week in FL with the kids. I have all the
ARRL stuff back to 1914, tell me what you're looking for and will send it
privately.

W4ZCB

From -4960910715118254127
X-Google-Thread: fc2a5,aad57ac90144b54a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!post02.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <40f420a4-ef9f-4451-bba9-1450d5ada576@1g2000hsl.googlegroups.com>
<fp4eh9$h6c$2@aioe.org>
Subject: Re: 48 volt power supply
Date: Sat, 16 Feb 2008 09:53:37 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Lines: 25
Message-ID: <47b6f8f0$0$1079$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 75.191.181.199
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15279

"Clever Monkey" <spamtrap@clevermonkey.org.INVALID> wrote in message
news:fp4eh9$h6c$2@aioe.org...
> jimmie68@gmail.com wrote:
>> I was thinking about using a UPS as a power supply for an amplifier.
>> The UPS is rated at over 2KW and uses 48 volts on the DC bus. I have
>> tried powering an amp directly from the batteries and it seems to work
>> OK. Battery pack is rate at 20 amp/hr. The inverter side of the UPS is
>> dead but the charger side is still functional. The plan is to remove
>> the inverter circuit completely. Can anyone think of anything wrong

>> with doing this.
>>
> Bear in mind that even with light use, the batteries will eventually have
> to be replaced. APC, for example, rates their SOHO UPS devices with
> replaceable batteries at 2-3 years between change-ups.
>
> However, this is an excellent way of maintaining a decent shack when the
> lights go out.

I have some 100 amp/hr batteries, I was wondering if they might work with
the UPS charger.

Jimmie

From 7177192417438236391
X-Google-Thread: fc2a5,aad57ac90144b54a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Date: Sat, 16 Feb 2008 18:37:05 +0000
From: Gerry <1321@yahoo.co.uk>
Reply-To: 1321@yahoo.co.uk
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 48 volt power supply
References: <40f420a4-ef9f-4451-bba9-1450d5ada576@1g2000hsl.googlegroups.com>
<fp4eh9$h6c$2@aioe.org> <47b6f8f0$0$1079$4c368faf@roadrunner.com>
In-Reply-To: <47b6f8f0$0$1079$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <47b72d52$1_1@mk-nntp-2.news.uk.tiscali.com>
Lines: 32
X-Original-NNTP-Posting-Host: 79.75.159.98
NNTP-Posting-Host: mk-nntp-2.news.uk.tiscali.com
X-Trace: 16 Feb 2008 18:37:10 GMT, mk-nntp-2.news.uk.tiscali.com
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed1.ip.tiscali.net!
tiscali!newsfeed2.ip.tiscali.net!212.74.112.120.MISMATCH!mk-
nntp-1.news.uk.tiscali.com!mk-nntp-2.news.uk.tiscali.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15280

Jimmie D wrote:
> "Clever Monkey" <spamtrap@clevermonkey.org.INVALID> wrote in message
> news:fp4eh9$h6c$2@aioe.org...
>> jimmie68@gmail.com wrote:
>>> I was thinking about using a UPS as a power supply for an amplifier.
>>> The UPS is rated at over 2KW and uses 48 volts on the DC bus. I have
>>> tried powering an amp directly from the batteries and it seems to work
>>> OK. Battery pack is rate at 20 amp/hr. The inverter side of the UPS is
>>> dead but the charger side is still functional. The plan is to remove

```
>>> the inverter circuit completely. Can anyone think of anything wrong
>>> with doing this.
>>>
>> Bear in mind that even with light use, the batteries will eventually have
>> to be replaced.  APC, for example, rates their SOHO UPS devices with
>> replaceable batteries at 2-3 years between change-ups.
>>
>> However, this is an excellent way of maintaining a decent shack when the
>> lights go out.
>
> I have some 100 amp/hr batteries, I was wondering if they might work with
> the UPS charger.
>
> Jimmie
>
>
I use a small APC UPS in the outdoor shack with a 110Ah camping battery,
the small charger works OK but does take a few days to recharge. I added
a small fan to the heat sink of the inverter as it tends to get a bit
hot.  The chargers need a battery connected as a load as they are not
pure DC.

Gerry....


From -9113343983955401562
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 16 Feb 2008 14:24:30 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<478bda15$0$16036$5fc30a8@news.tiscali.it>
<COudnSYWppIMYhbanZ2dnUVZ_vCknZ2d@comcast.com> <d2Uij.22583$m6.7751@newsfe18.lga>
<h_qdnZCyvdtGhCjanZ2dnUVZ_qainZ2d@comcast.com> <slrnfrbf9o.2ode.bit-
bucket@shell.config.com> <Xns9A457145285CEVeebleFetzer@127.0.0.1>
<EJstj.873$we5.858@trnddc02> <6L-dnYdixfoyOSvanZ2dnUVZ_gadnZ2d@comcast.com>
<7XAtj.36086$yE1.35797@attbi_s21>
Subject: Re: April 1977 QST article
Date: Sat, 16 Feb 2008 14:24:38 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <l7KdnZQierXj2yranZ2dnUVZ_sCtnZ2d@comcast.com>
Lines: 36
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.239.37.56
```

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X-Trace: sv3-
NLyWQ1O0F9ChBnCRf4M9vOCA28CO4ky5jr+cT0t0+bmnkIsjZcB2XGzfeoZIbbX0akkV+E6ZftqhJG3!
+wM5UNsPeOP5idhY+JhFt3/1KAtTY5jn+d3BDYYT6nlzqPXGGH1wuHpb9/gGwudALR7ebaqmpRQt!VL6/
BEQHUcLJOACngGx/4wXbwjJG
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15281

Thanks Harold............that would be super. I do have Norton Ghost, but
unfortunately if I imaged the data from my C drive to my D drive, I would
also have imaged the virus.
Thanks again!

Pete

"Harold E. Johnson" <W4ZCB@mchsi.com> wrote in message
news:7XAtj.36086$yE1.35797@attbi_s21...
>
>> Unfortunately, when I reinstalled Windows XP Pro, the crummy operating
>> system didn't recognize my backup drive unless I formatted it. To make
>> matters worse, the stupid, stupid, stupid Western Digital "Data
>> Lifeguard" software would not mount my backup drive onto the system
>> unless I reformatted that also. There was no option to configure my
>> backup drive into the system unless I actually formatted it and lost all
>> of my backup data. It looks like Western Digital is following Microsuck's
>> footsteps. I should have transferred all of my important data either to a
>> DVD or to my Linux system.
>> Never again a Western Digital drive!
>> The fact remains though, that I still need a copy of that article from at
>> least one of the 10 people that I was nice enough to forward it to. That
>> would help me much more than the various "lectures" about what I should
>> have done!
>>
>> Pete
>
> GM Pete. I recommend "Ghost" to make mirror bootable images of hard
> drives. Howsomever, I just got back from a week in FL with the kids. I
> have all the ARRL stuff back to 1914, tell me what you're looking for and
> will send it privately.
>
> W4ZCB
>




From -3768530827795885973
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 16 Feb 2008 15:09:29 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<478bda15$0$16036$5fc30a8@news.tiscali.it>
<COudnSYWppIMYhbanZ2dnUVZ_vCknZ2d@comcast.com> <d2Uij.22583$m6.7751@newsfe18.lga>
<h_qdnZCyvdtGhCjanZ2dnUVZ_qainZ2d@comcast.com> <slrnfrbf9o.2ode.bit-
bucket@shell.config.com> <Xns9A457145285CEVeebleFetzer@127.0.0.1>
<EJstj.873$we5.858@trnddc02> <6L-dnYdixfoyOSvanZ2dnUVZ_gadnZ2d@comcast.com>
<7XAtj.36086$yE1.35797@attbi_s21>
Subject: Re: April 1977 QST article
Date: Sat, 16 Feb 2008 15:09:37 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <RJKdnV1Dv5-XzCranZ2dnUVZ_q2hnZ2d@comcast.com>
Lines: 33
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.239.37.56
X-Trace: sv3-
T0Ba5hyraRDrRxErOk6P5Ym5y0OglkAs1UF4lWBeBai4Wg1VSCdNtSpGYZmd7riNxBAFUNssqsRZe3x!
HLTJzmHZcUnHuw5JcY+DN6kVXkOCn2kUtmezJE2h82izM8yQeLLykRiGfBJpg8eCzIBU2krpKhzE!
fQLm7LeXnkFlm4xhZ5+sPoLaUMum
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15282

A couple of folks were nice enough to send me that article. Thanks folks!

Pete

"Harold E. Johnson" <W4ZCB@mchsi.com> wrote in message
news:7XAtj.36086$yE1.35797@attbi_s21...
>
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> GM Pete. I recommend "Ghost" to make mirror bootable images of hard
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>
> W4ZCB
>

From 5434717197520697915
X-Google-Thread: fc2a5,aad57ac90144b54a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-sjc-10!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Denton" <denton@oregontrail.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 48 volt power supply
Date: Sat, 16 Feb 2008 15:06:00 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13rer2mh72lbr08@corp.supernews.com>
References: <40f420a4-ef9f-4451-bba9-1450d5ada576@1g2000hsl.googlegroups.com>
<fp4eh9$h6c$2@aioe.org> <47b6f8f0$0$1079$4c368faf@roadrunner.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 39
Xref: g2news1.google.com rec.radio.amateur.homebrew:15283

Well I have a Cyberpower 3000 sine wave output ups in the basement fed with
two banks of 4 12 vdc 38 amp hr Hawker absorpion gas mat batteries wired in
series...The ups specifies 48 vdc battery banks, normally of much smaller
capacity. It just takes a long time to get the batteries charged.
Works perfectly well for me!
One think I did do is build a Faraday shield out some aluminum screening
over the Cyberpower ups and the battery pack, gounded to an 8' ground rod
thru the basement wall to keep the inverter noise out of the hf rigs.
The Cyberpower feeds the radio station's power supplys and the pc on the
main floor thru a dedicated ac outlet.

```
"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
news:47b6f8f0$0$1079$4c368faf@roadrunner.com...
>
> "Clever Monkey" <spamtrap@clevermonkey.org.INVALID> wrote in message
> news:fp4eh9$h6c$2@aioe.org...
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> Jimmie
>
```

```
From 8959357393519723370
X-Google-Thread: fc2a5,aad57ac90144b54a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
newscon02.news.prodigy.net!prodigy.net!nx01.iad01.newshosting.com!newshosting.com!
post01.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <40f420a4-ef9f-4451-bba9-1450d5ada576@1g2000hsl.googlegroups.com>
<fp4eh9$h6c$2@aioe.org> <47b6f8f0$0$1079$4c368faf@roadrunner.com>
<13rer2mh72lbr08@corp.supernews.com>
Subject: Re: 48 volt power supply
Date: Sun, 17 Feb 2008 14:26:11 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Lines: 53
Message-ID: <47b88a51$0$30673$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 75.191.181.199
```

X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15284

"Denton" <denton@oregontrail.net> wrote in message
news:13rer2mh72lbr08@corp.supernews.com...
> Well I have a Cyberpower 3000 sine wave output ups in the basement fed
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>>
>> "Clever Monkey" <spamtrap@clevermonkey.org.INVALID> wrote in message
>> news:fp4eh9$h6c$2@aioe.org...
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>>>>
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>>>
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>>> lights go out.
>>
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>> the UPS charger.
>>
>> Jimmie
>>
>
>

Last night I hooked up the 4 100 amp hour batteries to the inverter and it shut down. Appararently it has some type of overcurrent protection. So I hooked my big auto shop station type battery charger up to them and let them charge over night. This AM when I connected the batteries to the inverter it just hummed right along. It appears that as long as I dont let the batteries get severly discharged I will be OK.

Jimmie

From 7942250287321056234
X-Google-Thread: fc2a5,aad57ac90144b54a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 17 Feb 2008 16:36:54 -0600
Message-Id: <jdpm85-d2a.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: Re: 48 volt power supply
Newsgroups: rec.radio.amateur.homebrew
Date: Sun, 17 Feb 2008 16:34:59 -0600
References: <40f420a4-ef9f-4451-bba9-1450d5ada576@1g2000hsl.googlegroups.com>
<fp4eh9$h6c$2@aioe.org> <47b6f8f0$0$1079$4c368faf@roadrunner.com>
<13rer2mh72lbr08@corp.supernews.com> <47b88a51$0$30673$4c368faf@roadrunner.com>
Organization: the clifto consortium
User-Agent: KNode/0.10.5
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 16
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.15.125.52
X-Trace: sv3-eluX7nZ0DuHSAY8Pcbb/
7ukxZBOLGbU5O6gwFsb5vL4VJONVGnR87QBXCkEQ6e7FS0psThfNJxGlLJ0!
Z9yhhR19t+oZ7hXLm8ucbzE/5X9aEJn2xG6KvMqEPajf2rRKj2ZKV+MJmZxqvl4cANs14EPvhw5j!
456sXx3/klsn
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15285

Jimmie D wrote:
> Last night I hooked up the 4 100 amp hour batteries to the inverter and it
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> just hummed right along. It appears that as long as I dont let the batteries
> get severly discharged I will be OK.

In other words, as long as you don't use the extra capacity you got those
batteries for.

--

B. Hussein Obama won't wear an American flag on his lapel, or put his hand over his heart during the national anthem, but prominently displayed in his Houston campaign office are TWO Cuban flags, each with a picture of Che Guevara superimposed on it.

```
From 4493497390219741551
X-Google-Thread: fc2a5,aad57ac90144b54a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feed.news.qwest.net!mpls-
nntp-06.inet.qwest.net!news.qwest.net!not-for-mail
Date: Sun, 17 Feb 2008 19:31:53 -0800
From: PhattyMo <PhattyMo@nospam.gmail>
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 48 volt power supply
References: <40f420a4-ef9f-4451-bba9-1450d5ada576@1g2000hsl.googlegroups.com>
<fp4eh9$h6c$2@aioe.org> <47b6f8f0$0$1079$4c368faf@roadrunner.com>
<13rer2mh72lbr08@corp.supernews.com> <47b88a51$0$30673$4c368faf@roadrunner.com>
<jdpm85-d2a.ln1@remote.clifto.com>
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Content-Transfer-Encoding: 7bit
Lines: 23
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1G2LR=G?<`c?fm_jOS77f
X-Complaints-To: news@qwest.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15286
```

clifto wrote:
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>> get severly discharged I will be OK.
>
> In other words, as long as you don't use the extra capacity you got those
> batteries for.
>

I think you'd be better off building/buying a 48V battery charger.
The little charger in the UPS is usually a trickle-charger type,and as
you found out,doesn't like bigger loads much.

Say you hit the PTT on your favorite rig,and the voltage dips a bit
-perhaps below the UPS chargers "happy point" and it throws a fit while
you're on the air.

From -3276444801346835996
X-Google-Thread: fc2a5,5fcfac897df65a93
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 18 Feb 2008 16:31:40 -0600
Date: Mon, 18 Feb 2008 22:32:34 +0000
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cantenna dummyload oil
References: <7pnrj.1378$J93.474@trndny08>
In-Reply-To: <7pnrj.1378$J93.474@trndny08>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <2uydnWPgtMjRmifanZ2dneKdnZydnZ2d@pipex.net>
Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.179.110.138
X-Trace: sv3-ScggRluuT5m9QHSLmS//
xhPiHvaWko1ybRK+hL611197XK7Zccxma4dDr8Wm+Fb6I8bRVSv8tSkl0/W!
Vs1ZChs0Mt90t1Rw3L8o0CJXkTuX+mpvd/VYJBDKPHlWJbzu6kitc6q8F3lmSsc45N/BwLn9Xo71!
BAxQMOhnw3gI8xhHQ4ns7SLBiZI=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15287

> Hi I need to building a 4 ohm 1500 watt "cantenna paint can style" dummy
> load for audio and guitar amp work. I have forgotten what type of oil to use
> for heat transfer.
> Id like something easy to get (like peanut or something with a high
> flashpoint).
> Don't want to loose the house.

==============================
Assuming a resistance wire load made from thick galvanised fencing wire
(freq is low ;no RF) carrying up to sqrt 1500/4 equals approx 20
amperes , I would just use a large paint can filled with motor oil.

The 2 dummy load connections can be best made with heavy duty insulated

panel sockets with screwed head to be fitted in the can's lid. The stiff
resistance element can be fitted unsupported and kept free from the can

I also use motor oil for RF dummy loads with metal oxyde resistors and
over the years the resistance hasn't changed.

To prevent the oil filled (paint)can 'weeping' oil it is important that
the can's vertical and bottom seals are tight by applying solder inside.
Depending on the type and duration of testing ,the heat capacity of the
dummy load can be increased by placing the lower part of the can in
(flowing) cold water.
The can's lid should have a small vent hole (1-2 mm)

Frank   GM0CSZ / KN6WH

From 4566866516256674598
X-Google-Thread: fc2a5,aad57ac90144b54a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!post02.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <40f420a4-ef9f-4451-bba9-1450d5ada576@1g2000hsl.googlegroups.com>
<fp4eh9$h6c$2@aioe.org> <47b6f8f0$0$1079$4c368faf@roadrunner.com>
<13rer2mh72lbr08@corp.supernews.com> <47b88a51$0$30673$4c368faf@roadrunner.com>
<jdpm85-d2a.ln1@remote.clifto.com> <47b8fb83$0$512$815e3792@news.qwest.net>
Subject: Re: 48 volt power supply
Date: Mon, 18 Feb 2008 17:42:48 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Lines: 41
Message-ID: <47ba09e6$0$1087$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 75.191.181.199
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15288

"PhattyMo" <PhattyMo@nospam.gmail> wrote in message
news:47b8fb83$0$512$815e3792@news.qwest.net...
> clifto wrote:
>> Jimmie D wrote:
>>> Last night I hooked up the 4 100 amp hour batteries to the inverter and
>>> it shut down. Appararently it has some type of overcurrent protection.
>>> So I hooked my big auto shop station type battery charger up to them and
>>> let them charge over night. This AM when I connected the batteries to
>>> the inverter it just hummed right along. It appears that as long as I

>>> dont let the batteries get severly discharged I will be OK.
>>
>> In other words, as long as you don't use the extra capacity you got those
>> batteries for.
>>
>
>
>
> I think you'd be better off building/buying a 48V battery charger.
> The little charger in the UPS is usually a trickle-charger type,and as you
> found out,doesn't like bigger loads much.
>
> Say you hit the PTT on your favorite rig,and the voltage dips a
> bit -perhaps below the UPS chargers "happy point" and it throws a fit
> while you're on the air.
>

Well the amp won't key and my signal will drop a few db. How bad can that
be?
 Ive had worse things happen than that but doubt if there is much of a
chance.
I could run max power for a couple of hours on just the batteries but these
are BIG batteries and they were nearly stone dead when I hooked them up. I
doubt if I will have that problem again. Heck the thing is rated at 2.5 KVA
BEst of all it and the batteries were free.

Jimmie

Jimmie

```
From 690245296117610688
X-Google-Thread: fc2a5,194c41cc02270a5d
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 18 Feb 2008 16:54:08 -0600
Date: Mon, 18 Feb 2008 22:55:02 +0000
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: desoldering advice needed
References: <47a48266$0$6156$4c368faf@roadrunner.com>
In-Reply-To: <47a48266$0$6156$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <B_qdnZIw3dQNkSfanZ2dneKdnZydnZ2d@pipex.net>
Lines: 8
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X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.179.110.138
X-Trace: sv3-MXBii4C8vOHDWRBc5dUjeG0q22rbTK0dbWjB/
NzZr8QbogB2n7IVrP2s4l4zEwfdg4mcUeFhxri/r3E!
0D2OcHcp5NJSliH2ZKv30az9d6Hj6eDlGi4CbIQjYmXIe1hEbXuu1dC9I/WIJ+qXAW0c4HPfE1ho!
S5faVZN3hi8Y3LlmURbWhoOQ2L0=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15289

David Rowell wrote:
> Would you nice folks point me to a good how-to on desoldering?
=============================
I am using both a Radio Shack 45W soldering iron with heated sucker head
with suction bellows ,cat no 64-2060B and a similar heated device with
integral spring  loaded  suction piston . Both work well and are low cost.

Frank   GM0CSZ / KN6WH


From 2087658874641465010
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!indigo.octanews.net!news-
out.octanews.net!mauve.octanews.net!nx01.iad01.newshosting.com!newshosting.com!
post01.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<478bda15$0$16036$5fc30a8@news.tiscali.it>
<COudnSYWppIMYhbanZ2dnUVZ_vCknZ2d@comcast.com> <d2Uij.22583$m6.7751@newsfe18.lga>
<h_qdnZCyvdtGhCjanZ2dnUVZ_qainZ2d@comcast.com> <slrnfrbf9o.2ode.bit-
bucket@shell.config.com> <Xns9A457145285CEVeebleFetzer@127.0.0.1>
<EJstj.873$we5.858@trnddc02> <6L-dnYdixfoyOSvanZ2dnUVZ_gadnZ2d@comcast.com>
Subject: Re: April 1977 QST article
Date: Tue, 19 Feb 2008 18:31:33 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Lines: 28
Message-ID: <47bb66d2$0$16684$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 75.191.181.199
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15290
```

"Pete KE9OA" <p.gianako@comcast.net> wrote in message
news:6L-dnYdixfoyOSvanZ2dnUVZ_gadnZ2d@comcast.com...
> Neither of those issues is the problem. It was a virus. I regularly make
> DVD backups of all data whenever I format my hard drives, but in this
> case, I trusted that fact that I would be able to transfer all of my
> important data to my secondary (slave) hard drive.
> Unfortunately, when I reinstalled Windows XP Pro, the crummy operating
> system didn't recognize my backup drive unless I formatted it. To make
> matters worse, the stupid, stupid, stupid Western Digital "Data Lifeguard"
> software would not mount my backup drive onto the system unless I
> reformatted that also. There was no option to configure my backup drive
> into the system unless I actually formatted it and lost all of my backup
> data. It looks like Western Digital is following Microsuck's footsteps. I
> should have transferred all of my important data either to a DVD or to my
> Linux system.
> Never again a Western Digital drive!
> The fact remains though, that I still need a copy of that article from at
> least one of the 10 people that I was nice enough to forward it to. That
> would help me much more than the various "lectures" about what I should
> have done!

Convert the hard drive to an external USB drive. adapters can be had for
about $10

Jimmie

From -8469633675361732573
X-Google-Thread: fc2a5,5fcfac897df65a93
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 20 Feb 2008 08:00:05 -0600
Date: Wed, 20 Feb 2008 14:01:04 +0000
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cantenna dummyload oil
References: <7pnrj.1378$J93.474@trndny08>
<2uydnWPgtMjRmifanZ2dneKdnZydnZ2d@pipex.net>
<4dfnr3db89aiukdapkvtjmfe4ejpl8kn15@4ax.com>
In-Reply-To: <4dfnr3db89aiukdapkvtjmfe4ejpl8kn15@4ax.com>
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Content-Transfer-Encoding: 7bit
Message-ID: <P8-dnRKnbu74ryHaRVnyhQA@pipex.net>
Lines: 20
X-Usenet-Provider: http://www.giganews.com

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NNTP-Posting-Host: 81.179.113.109
X-Trace: sv3-
KfTb7KzIEBbdQ8KBP4ns+CbonvPA4jhxnBIWvUjmThGb6IFFClNARYZjOwoxOP50V2PdQo5E4D50or5!/
ocTlWZmqs6BEHsRdVocNC18Bw1/Gi8FwIG/K0wdGYerWPIxYeDvTp3sshLvkP7h36wA/8Mkrxn8!
q1GA1K6wvnVJlLc=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15293

>> To prevent the oil filled (paint)can 'weeping' oil it is important that
>> the can's vertical and bottom seals are tight by applying solder inside.
------------
> That hasn't been my experience, but if one must solder, for sure don't
> use a lined can.  And then after soldering, clean and apply a
> protective coating on the outside to cover all areas where heat has
> discolored the metal... because these areas will be far more prone to
> rust.
==========
It is hardly possible that rust develops when the can is filled with
(any) oil.
Another way to prevent oil weeping from the can is to cover the seams
internally with 2 component-expoxy adhesive.I had a motor oil filled
dummy load in operation for 15 years without problems , resistance
measured remained constant (50.3 Ohms) over that period.
That dummy load was made with 20 ea 1000 Ohms ,2Watt carbon film
resistors.  With so many resistors in parallel the inductance of the
device is sufficiently low for use up to VHF frequencies.

Frank    GM0CSZ / KN6WH


From 8539194502685007115
X-Google-Thread: fc2a5,74ad0f14d5023792
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 20 Feb 2008 08:39:31 -0600
Date: Wed, 20 Feb 2008 14:40:29 +0000
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Are switch-mode powers supplies suitable for receivers?
References: <605sh6F1ppo43U1@mid.individual.net>
<b69a69ed-936c-4168-99ea-8e250ab99649@l32g2000hse.googlegroups.com> <6288d317-
b248-4c08-a697-ebe2ce067bb7@q21g2000hsa.googlegroups.com>
In-Reply-To: <6288d317-b248-4c08-a697-ebe2ce067bb7@q21g2000hsa.googlegroups.com>
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Lines: 36
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lJGVOf5fXdKrZnFPs1iYA!JV8+NLUqeRmKmynj4dQBv7OhVsd4Cd//SIo5/q/
AcwH1tY2SrSVcNBijvhBRZzufi+ItIa2oOz/u!K7xZ2zR44bWavix5StrzACMFOl4=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15294

> On Feb 4, 10:13 pm, Leon <leon...@btinternet.com> wrote:
>> On 28 Jan, 11:27, "Richard" <nearlynews_em...@ntlworld.com> wrote:
>>
>>> I have an ex AM PMR radio that I wish to use on 144Mhz. I need a PSU feeding
>>> 24V @ about 300mA.
>>> Are switch-mode powers supplies alright or are they too noisy to be used for
>>> receivers? TIA.
>> I use a 12V switcher with my FT-817D, it's very quiet.
>>
>> Leon
>
> You were lucky - you got a quiet one. And its the luck of the draw,
> unfortunately.
>
> How come we have all been conned into these switchmode things? - by
> their very nature, without a lot of effort, they are noise generators.
> Their cheap to make, thats their only advantage - everything else is
> part of the spin cycle. And if it works on 2m and above, fine - you
> will just be adding to the already horrendous RF pollution from
> thousands of the bloody things already on HF - the suburbs are getting
> unbearable, S9 plus noise, every night, on 80m.....160 aint to crash
> hot either...
>
> I refuse to have to work on a power supply to get it quiet enough to
> be used with a radio. I am interested in the radio, not fixing
> shortcomings in design of things that , by their very nature, are
> unsuitable to be used near radios. That sucks. Linear technology is
> far easier and quieter...
==
When using a switcher (in a metal sealed enclosure and with noise
supressors ,as recommended by some in this thread), put a sealed lead
acid battery in parallel.
If still noisy you then can switch-off switcher when rx-ing .

Frank GM0CSZ / KN6WH

```
From -6214310694368115185
X-Google-Thread: 114aac,c5aae9421fdf23cd,start
X-Google-Thread: 1009ad,c5aae9421fdf23cd,start
X-Google-Thread: f5341,c5aae9421fdf23cd,start
X-Google-Thread: 108122,c5aae9421fdf23cd,start
X-Google-Thread: fc2a5,c5aae9421fdf23cd,start
X-Google-Attributes: gid114aac,gid1009ad,gidf5341,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
i29g2000prf.googlegroups.com!not-for-mail
From: Tom <holden_family@sympatico.ca>
Newsgroups:
rec.radio.shortwave,alt.radio.scanner,alt.radio.scanner.uk,rec.radio.amateur.equip
ment,rec.radio.amateur.homebrew
Subject: Radio Shack DX-394 Users Group - 1200+ Members
Followup-To: rec.radio.shortwave, alt.radio.scanner, alt.radio.scanner.uk,
     rec.radio.amateur.equipment, rec.radio.amateur.homebrew
Date: Wed, 20 Feb 2008 07:40:34 -0800 (PST)
Organization: http://groups.google.com
Lines: 33
Message-ID: <fd29d9b9-d7c1-4acd-85ca-f94ab7acc6b7@i29g2000prf.googlegroups.com>
NNTP-Posting-Host: 64.229.221.6
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1203522034 8079 127.0.0.1 (20 Feb 2008 15:40:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 20 Feb 2008 15:40:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i29g2000prf.googlegroups.com; posting-host=64.229.221.6;
     posting-account=dSeW1wgAAACmKsq9OPblBZ8hpo9AeSuQ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.shortwave:135215 alt.radio.scanner:7173
alt.radio.scanner.uk:5111 rec.radio.amateur.equipment:14031
rec.radio.amateur.homebrew:15296
```

This group has the most complete collection of modifications, usage tips, links to related websites, documentation, and photos along with a user survey and a message forum (5000+ messages archived) to help you get the most fun and DX out of your Realistic / Radio Shack DX-394, DX394, DX 394 LW/MW/SW scanning receiver.

About 100 mods and tips now listed - more mods than for any other general coverage receiver! Thoroughly documented with a Master Index. If you like to tinker with radios, I know of no other recent model that lends itself to as much fun in this arena as the DX-394. Great platform for learning radio-electronics. Always 1 or more FA on eBay.

Active & friendly user community now with over 1200 members. Some

members are
keen short wave listeners; some are hams; some are into MW/AM DXing
and a few enjoy long wave. Many experiment with antennas and some are
ardent modifiers - customising and souping up the rig as hot rodders
would do with cars. You'll find lots to interest you and help get the
most out of your radio as propagation improves over the coming years.

All here at:
 http://groups.yahoo.com/group/=ADRADIOSHACKDX394/ <http://groups.yahoo.com/group/=ADRADIOSHACKDX394/>

Subscribe on line at the website (for full access privileges to the
extensive collection of Files, Photos and Links),

or by email:
 RADIOSHACKDX394-subscribe@yaho=ADogroups.com (for message posting/receipt only).

73, Tom

From 4212967352437225382
X-Google-Thread: fc2a5,74ad0f14d5023792
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!news-in-02.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-nntp-07.dc1.easynews.com.POSTED!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <605sh6F1ppo43U1@mid.individual.net>
<b69a69ed-936c-4168-99ea-8e250ab99649@l32g2000hse.googlegroups.com> <6288d317-b248-4c08-a697-ebe2ce067bb7@q21g2000hsa.googlegroups.com> <d6mdnRWL7fw-piHanZ2dnUVZ8uGdnZ2d@pipex.net>
Subject: Re: Are switch-mode powers supplies suitable for receivers?
Lines: 14
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <0TZuj.15952$Gv.7396@en-nntp-07.dc1.easynews.com>
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc. http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Wed, 20 Feb 2008 09:58:18 -0800
Xref: g2news1.google.com rec.radio.amateur.homebrew:15297

>> How come we have all been conned into these switchmode things? - by
>> their very nature, without a lot of effort, they are noise generators.
>> Their cheap to make, thats their only advantage - everything else is

>> part of the spin cycle.

Other advantages include much better power efficiency and much lower weight.

It's not particularly difficult to make a switcher with very good (meaning
very little) noise output, but relatively few applications call for it, and
given how incredibly competitive the power supply arena is, it's not
surprising that a lot of companies drop a few components to reduce their costs
at the expense of noise.

From 6148713002483430755
X-Google-Thread: fc2a5,5fcfac897df65a93
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <7pnrj.1378$J93.474@trndny08>
<2uydnWPgtMjRmifanZ2dneKdnZydnZ2d@pipex.net>
<4dfnr3db89aiukdapkvtjmfe4ejpl8kn15@4ax.com> <P8-dnRKnbu74ryHaRVnyhQA@pipex.net>
<uvgor35l6omdpk9ajnvkbrearoji2ok2se@4ax.com>
Subject: Re: Cantenna dummyload oil
Date: Wed, 20 Feb 2008 15:37:37 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 29
Message-ID: <47bc8f8d$0$7011$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 75.191.181.199
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15298

"Jim Higgins" <invalid@invalid.invalid> wrote in message
news:uvgor35l6omdpk9ajnvkbrearoji2ok2se@4ax.com...
> On Wed, 20 Feb 2008 14:01:04 +0000, Highland Ham
> <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote:
>
>>>> To prevent the oil filled (paint)can 'weeping' oil it is important that
>>>> the can's vertical and bottom seals are tight by applying solder
>>>> inside.
>>------------
>>> That hasn't been my experience, but if one must solder, for sure don't
>>> use a lined can. And then after soldering, clean and apply a
>>> protective coating on the outside to cover all areas where heat has

```
>>> discolored the metal... because these areas will be far more prone to
>>> rust.
>>==========
>>It is hardly possible that rust develops when the can is filled with
>>(any) oil.
>
>
> I believe I said "on the OUTSIDE..."  Oh, look, I did.  ;-)
```

I would think rust developing on outside the can wouldnt be much of a problem unless you tend to let things set for 10 years or so without ever looking at them.

Jimmie

```
From -4262456304780974198
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 20 Feb 2008 16:55:11 -0600
Date: Wed, 20 Feb 2008 22:56:10 +0000
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.9 (X11/20080213)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<478bda15$0$16036$5fc30a8@news.tiscali.it>
<COudnSYWppIMYhbanZ2dnUVZ_vCknZ2d@comcast.com> <d2Uij.22583$m6.7751@newsfe18.lga>
<h_qdnZCyvdtGhCjanZ2dnUVZ_qainZ2d@comcast.com>
In-Reply-To: <h_qdnZCyvdtGhCjanZ2dnUVZ_qainZ2d@comcast.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <UKGdnZvPLZdSMiHanZ2dnUVZ8q6onZ2d@pipex.net>
Lines: 9
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.179.113.109
X-Trace: sv3-
YNqDRBZEOf75np+FiJwZshYGxWsEfJXbJec9FKacvRxsgUetIypZ+2d4+fq9rW1jPvuuFYEFSlud/vG!
XpXzuwQ4kZqjI0S6Y2tvTFZ2dI3iRnhQ0QwDzlWE2YzSWpoLckOhkVbEqqkH1Rva8c2dp7ZuNB6M!
ppR0afUK+tNxs4/mCIFMMnkYHs4=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
```

```
Xref: g2news1.google.com rec.radio.amateur.homebrew:15299
```

> Could you please send me another copy of that article I sent
> you................I had to format my hard drive, and I lost that article.
> Thanks!
>
> Pete

================

Pete , I thought you were a Linux user......;))

Frank GM0CSZ / KN6WH

```
From 8053772515083861404
X-Google-Thread: fc2a5,4e9ddfd3c68eb94f,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news1.google.com!postnews.google.com!
n58g2000hsf.googlegroups.com!not-for-mail
From: WillWeav@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: 100 pages of videos
Date: Wed, 20 Feb 2008 19:24:33 -0800 (PST)
Organization: http://groups.google.com
Lines: 10
Message-ID: <5cf7f5c9-7c63-4a24-baf9-19c5dfa07c37@n58g2000hsf.googlegroups.com>
NNTP-Posting-Host: 70.142.43.94
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1203564273 2917 127.0.0.1 (21 Feb 2008 03:24:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Feb 2008 03:24:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n58g2000hsf.googlegroups.com; posting-host=70.142.43.94;
     posting-account=byj1rwoAAAAouXgSBYAfn74_uyVCtsDr
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.12)
     Gecko/20080201 Firefox/2.0.0.12,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15300
```

I posted a message earlier that I had added 100 pages of ham related
videos to my website but failed to include the link to the website,
anyway here is the link, come on by and visit:
http://www.amateurradios.info

Thanks to those that have already visited, come back for more.

73's everyone

Bill W5GRX

```
From -7885334494800210683
X-Google-Thread: fc2a5,53774c30b5e12b8c,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-05!sn-xt-sjc-08!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Larry Snyder" <lsnyder@pacific.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Cheap Muscle wire to turn antenna
Date: Fri, 22 Feb 2008 12:47:04 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13rud6al72un905@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 3
Xref: g2news1.google.com rec.radio.amateur.homebrew:15301

http://cgi.ebay.com:80/ws/eBayISAPI.dll?
ViewItem&item=330214235548&ssPageName=ADME:L:LCA:US:1123




From 7528467817377386306
X-Google-Thread: fc2a5,baea754941c2153f,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: Japanese,JIS
Path: g2news1.google.com!news1.google.com!postnews.google.com!
s12g2000prg.googlegroups.com!not-for-mail
From: suzannehoes@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Best electronics product!
Date: Mon, 25 Feb 2008 07:46:01 -0800 (PST)
Organization: http://groups.google.com
Lines: 40
Message-ID: <6fb046b2-5598-4d6c-a916-abd1736f1800@s12g2000prg.googlegroups.com>
NNTP-Posting-Host: 218.28.92.138
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-2022-JP
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1203954362 9899 127.0.0.1 (25 Feb 2008 15:46:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 25 Feb 2008 15:46:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s12g2000prg.googlegroups.com; posting-host=218.28.92.138;
     posting-account=8PD3EAoAAAAnxIhm73wtB_kJk7pxGmBO
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.12)
     Gecko/20080201 Firefox/2.0.0.12,gzip(gfe),gzip(gfe)
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:15302

Hi friends:
Welcome to shopping on our website! Free shipping.
http://www.electronics-made-china.com
In order to celebrate our company's thrid years anniversary and the successful updating of our website, we have speical presents for buyers From February 12-30!

Free Apple MP3 for All Deals.
For Deals Over $200, an Extra 10% discount for You!

20GB Apple MP3 for any buyers; View 20GB(Black or white)
30GB Apple MP3 for who purchase over $1000; View 30GB(Black or white)
40GB Apple MP3 for who purchase over $2000; View 40GB(Black or white)
60GB Apple MP3 for who purchase over $3000; View 60GB(Black or white)
80GB Apple MP3 for who purchase over $5000; View 80GB(Black or white)

We are a large wholesaler mainly selling electrical product,

We buy exclusively from Chinese manufacturers who produce Digital Cameras$B!$(BDJ Equipment, Electric guitars, Game console, GPS, Laptops, Mobile Phone, Motorcycles, Mp3, Mp4, Road Bikes, TVs & HDTVs.

The quality of our products is the best, our service is perfect, and our price is the best, the speed of our shipping is very fast.

We have our own warehouse and stores, we have clients all over the world, and we have been received very high praise from our customers.

If you have some suggestions about our products or our service, please tell us, and we must accept and improve, and appreciate you very much.
We hope we can cooperate happily in the long term.

Our belief: Credit is the first, customers are our God.

7*24 hour On-line service:
MSN : E-made-china[AT]hotmail.com
Email:E-made-china[AT]hotmail.com

Website Homepage:
http://www.electronics-made-china.com

From 3429088705649756227
X-Google-Thread: 10cf58,164e72c5fe769281
X-Google-Thread: 115730,164e72c5fe769281
X-Google-Thread: fb1f8,164e72c5fe769281
X-Google-Thread: fc2a5,164e72c5fe769281
X-Google-Thread: 112d1e,164e72c5fe769281
X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!

newsfeed2.telusplanet.net!newsfeed.telus.net!edtnps89.POSTED!53ab2750!not-for-mail
From: "Dave" <dspear99ca@yahoo.com>
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
References: <7c0ed491-3cdb-4549-a43d-330cf4e13815@s12g2000prg.googlegroups.com>
Subject: Re: seeking schematics or plans to build a stereo analog volume meter (to
plug into pc speaker headphone jack)
Lines: 42
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="Windows-1252";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <bBBwj.58078$C61.44082@edtnps89>
Date: Mon, 25 Feb 2008 15:59:03 GMT
NNTP-Posting-Host: 154.5.97.82
X-Trace: edtnps89 1203955143 154.5.97.82 (Mon, 25 Feb 2008 08:59:03 MST)
NNTP-Posting-Date: Mon, 25 Feb 2008 08:59:03 MST
Xref: g2news1.google.com rec.audio.pro:183102 sci.electronics.equipment:10327
rec.audio.tech:41133 rec.radio.amateur.homebrew:15303
sci.electronics.design:321599

<mad.scientist.jr@gmail.com> wrote in message
news:7c0ed491-3cdb-4549-a43d-330cf4e13815@s12g2000prg.googlegroups.com...
>I would like to build an analog volume meter (moving needle type)
> using moving needle gauges like this
>   http://en.wikipedia.org/wiki/Image:VU_Meter.jpg
> scavenged from a dead mixer's VU meter.
>
> It would plug into the headphone jack on a set of computer speakers
> and monitor the right/left sound volumes independently.
>
> Can anyone point me to a good website or book with schematics or plans
> on building this?
>
>
> PS I would also be interested in building a frequency meter (also
> would be plugged into computer speakers and display the pitch/
> frequency of a pure sin wave coming from the computer's sound card). I
> got several replies but they were pretty technical and I have not
> found any complete plans for such a device. If any can suggest a good
> web site or book that would be great. Thanks
>
>
>>BobG:
> That's a tachometer. A lo pass filter, a comparator, a oneshot, a

> capacitor, and a meter on a trimpot. Every zero crossing, the
> comparator fires the oneshot, the cap integrates the pulses, and the
> meter shows the freq. Cal it with sine waves.... no harmonics.
>
> linnix:
> Or a $2 micro averaging the DCT, FFT or XYZ (forgot the name of that
> spectral analyser).
>
> whit3rd:
> Phase-lock loops like 74HC4046 can lock onto an audio
> frequency, and the follower in it has an output voltage
> proportional to frequency. That's about $0.60 from your budget;
> a good analog moving-needle meter will suck up the rest of it.
>

test

```
From 3714098172287964186
X-Google-Thread: 10cf58,164e72c5fe769281
X-Google-Thread: 115730,164e72c5fe769281
X-Google-Thread: fb1f8,164e72c5fe769281
X-Google-Thread: fc2a5,164e72c5fe769281
X-Google-Thread: 112d1e,164e72c5fe769281
X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
newspeer.tds.net!216.168.1.162.MISMATCH!sn-xt-sjc-02!sn-xt-sjc-09!sn-post-sjc-02!
sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "sycochkn" <sycochkn@earthlink.net>
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Re: seeking schematics or plans to build a stereo analog volume meter (to
plug into pc speaker headphone jack)
Date: Mon, 25 Feb 2008 17:54:42 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13s6rvca6mbqb76@corp.supernews.com>
References: <7c0ed491-3cdb-4549-a43d-330cf4e13815@s12g2000prg.googlegroups.com>
<bBBwj.58078$C61.44082@edtnps89>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 56
Xref: g2news1.google.com rec.audio.pro:183153 sci.electronics.equipment:10333
rec.audio.tech:41139 rec.radio.amateur.homebrew:15305
sci.electronics.design:321722
```

"Dave" <dspear99ca@yahoo.com> wrote in message
news:bBBwj.58078$C61.44082@edtnps89...
>
> <mad.scientist.jr@gmail.com> wrote in message
> news:7c0ed491-3cdb-4549-a43d-330cf4e13815@s12g2000prg.googlegroups.com...
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>> using moving needle gauges like this
>>   http://en.wikipedia.org/wiki/Image:VU_Meter.jpg
>> scavenged from a dead mixer's VU meter.
>>
>> It would plug into the headphone jack on a set of computer speakers
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>>
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>>
>>
>> PS I would also be interested in building a frequency meter (also
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>>
>>
>>>BobG:
>> That's a tachometer. A lo pass filter, a comparator, a oneshot, a
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>> meter shows the freq. Cal it with sine waves.... no harmonics.
>>
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>> Or a $2 micro averaging the DCT, FFT or XYZ (forgot the name of that
>> spectral analyser).
>>
>> whit3rd:
>> Phase-lock loops like 74HC4046 can lock onto an audio
>> frequency, and the follower in it has an output voltage
>> proportional to frequency. That's about $0.60 from your budget;
>> a good analog moving-needle meter will suck up the rest of it.
>>
>
> test
>

A crystal controlled monostable multivibrator driving an analog meter. that
is more like 10 bucks without the meter. It can be calibrated without an
input signal. or by inputting a signal beyond its range.

Bob

Bob

```
From -2577204175924233808
X-Google-Thread: fc2a5,4e55b040076b12d3,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!sn-xt-sjc-02!sn-
xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "wchost" <website-solution@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Udomain Zen Internet launches new managed security service
Date: Thu, 28 Feb 2008 22:34:04 -0600
Organization: www.talkaboutradio.com
Message-ID: <1127aabfe93f1f7569df7e6e5cc4c746@localhost.talkaboutradio.com>
X-Newsreader: www.talkaboutradio.com
X-Problems-To: info at talkaboutnetwork.com
X-Posted-By: USERID-112643
Content-Type: text/plain;
X-Complaints-To: abuse@supernews.com
Lines: 77
Xref: g2news1.google.com rec.radio.amateur.homebrew:15306
```

Udomain Zen Internet launches new managed security service

Udomain Zen Internet, a multi-award winning Internet Service Provider (ISP), has today launched a comprehensive Managed Security service to meet the needs of its rapidly growing base of business customers.

Based upon Fortinets award winning Unified Threat Management appliances, Udomain Zens Managed Security customers will benefit from a range of services including network security consultation and design, 24 x 7 network monitoring, monthly firewall activity reports and on-going support from a dedicated support team. Udomain Zens Managed Security service is backed up with a Service Level Agreement and allows both small and large companies to focus on their business safe in the knowledge that their network is protected from a range of Internet threats.

Security has become increasingly important to our customers, particularly with the rise of e-commerce and online operations, said Justin Barritt, Product Manager at Udomain Zen Internet. Our decision to develop a Managed Security solution is based upon the needs of our customers who are struggling to protect their networks against a growing range of Internet threats. Smaller businesses dont have the resources to make someone solely responsible for security whilst larger businesses can call upon our managed security provisions when their security needs become increasingly complex.

He continued: The range of Fortinets Unified Threat Management devices provide our customers with advanced AV scanning, content filtering, firewall and anti-spam capabilities. Fortinets multi-threat security offerings allow our customers to meet all their current security requirements whilst also being able to satisfy future business security needs.

Our alliance with Udomain Zen Internet further underlines how Fortinets UTM platform is ideally suited to the Managed Security Market, said Jonathan Mepsted, regional director Fortinet UK, Ireland and South Africa. The protection offered by FortiGate devices allows Udomain Zen to provide its customers with a proactive service - Udomain Zens investment in Fortinets FortiManager management consoles also enable them to make quick changes to customers security policies and facilitate detailed reporting on a range of blocked threats.

About Udomain Zen Internet:
Established in 2001, and one of the first ISPs in the UK, Udomain Zen Internet provides a full range of high quality services to the home and business user, from the latest in high speed DSL Broadband Internet access and complete hosting packages to state of the art Web site design and e-commerce solutions. Udomain Zen Internet won three awards in the 2006 ISPAs (Internet Service Providers' Association) in the categories of Best Uncontended Service, Best Heavy Business Broadband and Best Business ISP. These followed an ISPA Best Light Business Broadband award in 2005 and the PC Pro Best ISP Broadband awards in 2004 and 2005.
http://www.ec2biz.com/en/section-knowledge/support.aspx

About Fortinet:
Fortinet is the confirmed leader of the Unified Threat Management security appliance market. The company's award-winning FortiGate series of ASIC-accelerated multi-threat security appliances, winner of the 2004 Security Product of the Year Award from Network Computing magazine and the 2003 Networking Industry Awards Firewall Product of the Year, are the new generation of real-time network protection systems. They detect and eliminate the most damaging, content-based threats from e-mail and Web traffic such as viruses, worms, intrusions, inappropriate Web content and more in real time - without degrading network performance. Fortinet's solutions are the only security products that are certified eight times over by the ICSA (firewall, antivirus, IPSec, SSL, IDS, client antivirus detection, cleaning and antispyware), and deliver a full range of network-level and application-level services in integrated, easily managed platforms. Named a Light Reading Top 10 Private Company and #4 on Silicon Valley/San Jose Business Journals Fast 50 list, Fortinet is privately held and based in Sunnyvale, California.

--
Message posted using http://www.talkaboutradio.com/group/rec.radio.amateur.homebrew/
More information at http://www.talkaboutradio.com/faq.html

From -8123365441179729602
X-Google-Thread: fc2a5,dec7b01ab7084999,start

```
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s13g2000prd.googlegroups.com!not-for-
mail
From: EngineerEDGE <calculatoredge@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Calculate RF / Electronic Equations Online & Subscribe FREE magazines
Date: Thu, 28 Feb 2008 23:24:35 -0800 (PST)
Organization: http://groups.google.com
Lines: 11
Message-ID: <85bbc04c-96a1-4062-9e21-eff024d67ad5@s13g2000prd.googlegroups.com>
NNTP-Posting-Host: 61.11.126.61
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1204269875 2563 127.0.0.1 (29 Feb 2008 07:24:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 29 Feb 2008 07:24:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s13g2000prd.googlegroups.com; posting-host=61.11.126.61;
     posting-account=yvlu1QkAAAAGhntrpyo0XnDCIMT13bpE
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.0; en-US; rv:1.8.1.12)
     Gecko/20080201 Firefox/2.0.0.12,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15307

Hello Friends,

Check this website www.calculatoredge.com you will find several RF &
Microwave Calculator Tool, you do not need to learn the formula to
solve the equations, if you have inputs then you can just enter into
and get the equations solved.

You also get free magazine subscription on this website, I guess it is
useful

Tom



From -7116299663425604858
X-Google-Thread: fc2a5,ec2ee16c4f2ccb1b,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!u69g2000hse.googlegroups.com!not-for-
mail
From: "Dwight D. Eisenhower" <rottedHonda@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FOR SALE-EMERSON Bakelite-TELE-TONE mod.145-RCA VICTOR mod.45-1-2,
     all for $50 lot-fix/parts/restore
Date: Mon, 3 Mar 2008 05:16:08 -0800 (PST)
Organization: http://groups.google.com
Lines: 22
Message-ID: <601d4a0b-6358-4bbf-9b67-3bb328d0f500@u69g2000hse.googlegroups.com>
```

NNTP-Posting-Host: 216.37.141.2
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1204550168 1420 127.0.0.1 (3 Mar 2008 13:16:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 3 Mar 2008 13:16:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u69g2000hse.googlegroups.com; posting-host=216.37.141.2;
     posting-account=r8XCBQoAAABNhqpsAkZNbLs4uIwOFVFO
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x
     4.90),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15308

http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&rd=1&item=140212381570&ssPageName=STRK:MESE:IT&ih=004

LOT OF (3) OLD AM TUBE RADIOS AND PHONOGRAPH-MONO-USE FOR PARTS OR REPAIR- LIST:

EMERSON BAKELITE AM RADIO-CRACKED CASE (CAN BE GLUED), MISSING BACK PANEL, OTHERWISE COMPLETE WITH ALL TUBES, SPEAKER, ANTENNA, KNOBS, FRONT DIAL/GLASS

TELE-TONE MODEL 145 AC/DC PORTABLE TUBE RADIO-WORKED ON HOUSE WALL CURRENT OR BATTERIES- NO KNOBS- WOODEN CASE APART- OTHERWISE COMPLETE WITH FRONT PANEL, BACK PANEL, ALL TUBES, BATTERY CONNECTIONS

RCA VICTOR MODEL 45-1-2 PHONOGRAPH, PLAYED MONO 45 RPM 7" RECORDS, COMPLETE WITH RCA OUTPUT CORD

From 4373064677546424036
X-Google-Thread: fc2a5,b538ed6de9ca038,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!wn13feed!worldnet.att.net!
bgtnsc05-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: MORE ANTIQUE CATALOGS/PAPER +
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal

```
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <XXWyj.276339$MJ6.26036@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: db01e9119c4680ab63de1ee9685bc788
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1204566903
db01e9119c4680ab63de1ee9685bc788 (Mon, 03 Mar 2008 17:55:03 GMT)
NNTP-Posting-Date: Mon, 03 Mar 2008 17:55:03 GMT
Organization: AT&T Worldnet
Date: Mon, 03 Mar 2008 17:55:03 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15309
```

Just listed: SAM'S , THORDARSON (AMATEUR + XFMR), ALLIED, UTC, STANCOR,:
MORE ARE COMING IN THE NEXT FEW DAYS,

Why go for a copy when originals are available:??

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

How about a look at some of my antique radios I will be listing in the
furture: see at:

www.facebook.com/album.php?aid=2000463&l=c8e18&id=1110063202

Tnx, Heytubeguy

```
From -6902788141481010707
X-Google-Thread: fc2a5,74ad0f14d5023792
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i7g2000prf.googlegroups.com!not-for-
mail
From: Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Are switch-mode powers supplies suitable for receivers?
Date: Tue, 4 Mar 2008 22:20:58 -0800 (PST)
Organization: http://groups.google.com
Lines: 32
Message-ID: <e78cca3b-8849-415f-ae17-2702c1adc792@i7g2000prf.googlegroups.com>
References: <605sh6F1ppo43U1@mid.individual.net>
<b69a69ed-936c-4168-99ea-8e250ab99649@l32g2000hse.googlegroups.com>
     <6288d317-b248-4c08-a697-ebe2ce067bb7@q21g2000hsa.googlegroups.com>
     <d6mdnRWL7fw-piHanZ2dnUVZ8uGdnZ2d@pipex.net> <0TZuj.15952$Gv.7396@en-
nntp-07.dc1.easynews.com>
NNTP-Posting-Host: 218.215.171.158
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
```

```
X-Trace: posting.google.com 1204698058 29081 127.0.0.1 (5 Mar 2008 06:20:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 5 Mar 2008 06:20:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i7g2000prf.googlegroups.com; posting-host=218.215.171.158;
     posting-account=LRLqpgkAAACt8OsWZnclc0j8ufDGwSA0
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.12)
     Gecko/20080201 Firefox/2.0.0.12,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15310
```

On Feb 21, 4:58 am, "Joel Koltner" <zapwireDASHgro...@yahoo.com>
wrote:

> >> How come we have all been conned into these switchmode things? - by
> >> their very nature, without a lot of effort, they are noise generators.
> >> Their cheap to make, thats their only advantage - everything else is
> >> part of the spin cycle.
>
> Other advantages include much better power efficiency and much lower weight.
>
> It's not particularly difficult to make a switcher with very good (meaning
> very little) noise output, but relatively few applications call for it, and
> given how incredibly competitive the power supply arena is, it's not
> surprising that a lot of companies drop a few components to reduce their costs
> at the expense of noise.

re power and weight - I was having a rant, so deliberately left out
the inconvenient facts.....(Yes, I thats unusual, isnt it - I must
reprimand myself)

And yes, will readily concede the " they can be well designed bit"...

But they are not. The percentage? - dont know. All I can do is hear
them, on air. Went away at Xmas, remote caravan park, MILES away,
looking forward to HF radio . Nope, surrounded by modern caravans with
12v systems, run from noisy SMPS power supplies/battery chargers....it
was better, 80m QRM was S3 instead of S9+

Gosh, modern electronics IS wonderful, isnt it....

My point stands.

Andrew VK3BFA.

```
From -6891848469641855559
X-Google-Thread: fc2a5,74ad0f14d5023792
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!wn14feed!
worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!7bd46aa5!not-for-mail
From: "numeric" <numeric@att.net>
Newsgroups: rec.radio.amateur.homebrew
```

References: <605sh6F1ppo43U1@mid.individual.net>
Subject: Re: Are switch-mode powers supplies suitable for receivers?
Lines: 28
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Message-ID: <HLtzj.281011$MJ6.171168@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: e2be9ebd7c6d1b31168d5603f2a01104
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1204709479
e2be9ebd7c6d1b31168d5603f2a01104 (Wed, 05 Mar 2008 09:31:19 GMT)
NNTP-Posting-Date: Wed, 05 Mar 2008 09:31:19 GMT
Organization: AT&T Worldnet
Date: Wed, 05 Mar 2008 09:31:19 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15311

"Richard" <nearlynews_email@ntlworld.com> wrote in message
news:605sh6F1ppo43U1@mid.individual.net...
> I have an ex AM PMR radio that I wish to use on 144Mhz. I need a PSU
feeding
> 24V @ about 300mA.
>
> Are switch-mode powers supplies alright or are they too noisy to be used
for
> receivers? TIA.
>

Many years ago I designed a switching power supply for aircraft Nav and Com VHF radios. The switcher was 100% shielded and line filtered to get the radio to pass FCC and FAA TSO certification. Even though the Com and Nav radio's are VHF, they were placed next to an ADF radio (low frequency) without problems. Testing was performed not only for electro magnetic emissions, but also for line current emissions, with a line stabilization network, into the radio from the aircraft power. Even if the switcher is 100% shielded, this will not prevent radiation along the input power line. You need to consider methods to eliminate pulsed current along the input power line caused by the switcher. This may be hard to achieve, especially for high efficiency switchers. A good choke will help, but it will also introduce additional switching losses. So yes, a switcher can be used; but, IMHO it must be designed for use in an RF environment.

From -8424873576299317504
X-Google-Thread: fc2a5,9cd2128efce7f98a,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
s19g2000prg.googlegroups.com!not-for-mail

```
From: roses.susan3@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: I love this :-)
Date: Wed, 5 Mar 2008 06:22:19 -0800 (PST)
Organization: http://groups.google.com
Lines: 3
Message-ID: <b899c997-285e-4c83-8569-8c5a62b2617f@s19g2000prg.googlegroups.com>
NNTP-Posting-Host: 91.121.102.64
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1204726939 31096 127.0.0.1 (5 Mar 2008 14:22:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 5 Mar 2008 14:22:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s19g2000prg.googlegroups.com; posting-host=91.121.102.64;
     posting-account=fD0_AwkAAAAFyntFgS47DGomppW7Prt2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15312

amazing site and all is free and a lot of goodies!

http://www.getaction4ever.com



From 6371587553891018369
X-Google-Thread: fc2a5,ffb1d727c0020844,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
c33g2000hsd.googlegroups.com!not-for-mail
From: "brm@netcabo.pt" <brm@netcabo.pt>
Newsgroups: rec.radio.amateur.homebrew
Subject: FS used  AEA  JRC
Date: Thu, 6 Mar 2008 16:19:32 -0800 (PST)
Organization: http://groups.google.com
Lines: 7
Message-ID: <19f77922-3114-45f2-b5ad-8651d185e1e6@c33g2000hsd.googlegroups.com>
NNTP-Posting-Host: 89.180.157.186
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1204849172 26320 127.0.0.1 (7 Mar 2008 00:19:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 7 Mar 2008 00:19:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c33g2000hsd.googlegroups.com; posting-host=89.180.157.186;
     posting-account=55AzpwkAAACer5OvjF_ZxhFRgl2Xj95E
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1) ),gzip(gfe),gzip(gfe)
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:15313

FS used AEA PK232
JRC speaker

http://brm.planetaclix.pt/usados.htm

73,CT1BRM
JM

From 1434522221428547419
X-Google-Thread: fcc6e,d3dc737fbeb9b98f,start
X-Google-Thread: 11480d,d3dc737fbeb9b98f,start
X-Google-Thread: 108122,d3dc737fbeb9b98f,start
X-Google-Thread: fc2a5,d3dc737fbeb9b98f,start
X-Google-Thread: 10b9c8,d3dc737fbeb9b98f,start
X-Google-Attributes: gidfcc6e,gid11480d,gid108122,gidfc2a5,gid10b9c8,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1202367901@panix.com>
Followup-To: poster
Date: 7 Mar 2008 02:05:02 -0500
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 09 Apr 2008 03:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1204873500@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1204873503 22431 166.84.1.2 (7 Mar 2008 07:05:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 7 Mar 2008 07:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:55435 rec.radio.amateur.dx:3923
rec.radio.amateur.equipment:14088 rec.radio.amateur.homebrew:15314
rec.radio.info:699

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

```
 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month
```

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

```
From -6074851607053546799
X-Google-Thread: fc2a5,6a33499bb3e004d8,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!wn13feed!
worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: COLLINS RELAYS & DRAFT DRAWING
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <MbcAj.287184$MJ6.253410@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: 93d66bf162fe28c0002eff065febf310
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1204899692
```

```
93d66bf162fe28c0002eff065febf310 (Fri, 07 Mar 2008 14:21:32 GMT)
NNTP-Posting-Date: Fri, 07 Mar 2008 14:21:32 GMT
Organization: AT&T Worldnet
Date: Fri, 07 Mar 2008 14:21:32 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15315

COLLINS REPLACEMENT RELAYS & DRAFT DRAWING: see at:


http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

Tnx for looking, Heytubeguy





From -3414094255602835466
X-Google-Thread: 1109af,d240954707bc92c9,start
X-Google-Thread: fc2a5,d240954707bc92c9,start
X-Google-Attributes: gid1109af,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!cycny01.gnilink.net!
spamkiller2.gnilink.net!gnilink.net!trndny06.POSTED!5ddaa2d0!not-for-mail
From: "Bill Golden" <shortwave1@verizon.net>
Newsgroups: rec.radio.swap,rec.radio.amateur.homebrew
Subject: FS: Micron A/C Adapter/Power Supply
Lines: 60
MIME-Version: 1.0
Content-Type: multipart/alternative;
     boundary="----=_NextPart_000_000C_01C8820D.3A6D81A0"
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <NTYAj.3448$y83.1757@trndny06>
Date: Sun, 09 Mar 2008 21:45:17 GMT
NNTP-Posting-Host: 68.236.31.9
X-Complaints-To: abuse@verizon.net
X-Trace: trndny06 1205099117 68.236.31.9 (Sun, 09 Mar 2008 17:45:17 EDT)
NNTP-Posting-Date: Sun, 09 Mar 2008 17:45:17 EDT
Xref: g2news1.google.com rec.radio.swap:18629 rec.radio.amateur.homebrew:15316

This is a multi-part message in MIME format.

------=_NextPart_000_000C_01C8820D.3A6D81A0
Content-Type: text/plain;
     charset="Windows-1252"
Content-Transfer-Encoding: quoted-printable


For Sale:

Micron A/C Adapter / DC Power Supply
```

```
(Model F1700C), in like-new condition.
Includes 6 foot A/C line cord=20

Input:   110 Volts AC, 1.8 A, 50-60 Hz
Output:  19 Volts DC, 2.6 A, 50 W Max.

$ 10,00 plus $ 6.00 for USPS shipping=20
(Cont'l U.S. Only).

-Bill
KB3PT
E-mail:  shortwave1@verizon.net


------=_NextPart_000_000C_01C8820D.3A6D81A0
Content-Type: text/html;
     charset="Windows-1252"
Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
<HTML><HEAD>
<META http-equiv=3DContent-Type content=3D"text/html; =
charset=3Dwindows-1252">
<META content=3D"MSHTML 6.00.2800.1555" name=3DGENERATOR>
<STYLE></STYLE>
</HEAD>
<BODY bgColor=3D#ffffff>
<DIV>&nbsp;</DIV>
<DIV>For Sale:</DIV>
<DIV>&nbsp;</DIV>
<DIV>Micron A/C Adapter / DC Power Supply</DIV>
<DIV>(Model F1700C), in&nbsp;like-new condition.</DIV>
<DIV>Includes&nbsp;6 foot A/C line cord </DIV>
<DIV>&nbsp;</DIV>
<DIV>Input:&nbsp;&nbsp; 110 Volts AC, 1.8 A, 50-60 Hz</DIV>
<DIV>Output:&nbsp; 19 Volts DC, 2.6 A, 50 W Max.</DIV>
<DIV>&nbsp;</DIV>
<DIV>$ 10,00&nbsp;plus $ 6.00&nbsp;for USPS shipping <BR>(Cont'l U.S.=20
Only).</DIV>
<DIV>&nbsp;</DIV>
<DIV>-Bill</DIV>
<DIV>KB3PT</DIV>
<DIV>E-mail:&nbsp; <A=20
href=3D"mailto:shortwave1@verizon.net">shortwave1@verizon.net</A></DIV>
<DIV>&nbsp;</DIV>
<DIV>&nbsp;</DIV></BODY></HTML>

------=_NextPart_000_000C_01C8820D.3A6D81A0--



From -1810128017271545434
X-Google-Thread: 1131b0,b36eae7fbc7a5ee5,start
```

X-Google-Thread: fc2a5,b36eae7fbc7a5ee5,start
X-Google-Attributes: gid1131b0,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.velocitywest.net!
news.velocitywest.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 10 Mar 2008 00:48:18 -0500
Date: Sun, 09 Mar 2008 22:48:16 -0700
From: "H. P. Friedrichs" <nospam@please.com>
User-Agent: Thunderbird 2.0.0.12 (Windows/20080213)
MIME-Version: 1.0
Newsgroups: sci.electronics.repair,rec.radio.amateur.homebrew
Subject: Looking for schematics for old cable box
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <5dGdnbEXAe0_VknanZ2dnUVZ_jydnZ2d@velocitywest.net>
Lines: 28
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.183.70.9
X-Trace: sv3-1yEz5Ig4qRu/Y1JwGsvyPLMjq5vzFEE8AEDfCGfafmB6pb/
okbhFCt+WTtYxpKrqJsgxnnwG8mofdS/!+DkcyC59SSm7WZJ1uQibOlE9LZr/
tGvndoqEWtGG5lAN+16yls83XYpUJX4uDPm9q3Aax8WJ64nr!p7n1InMzIrdGOZNVhC+qQK8G
X-Complaints-To: abuse@velocitywest.net
X-DMCA-Complaints-To: abuse@velocitywest.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com sci.electronics.repair:88959
rec.radio.amateur.homebrew:15317

Hi, all--

I picked up an old cable box at a recent hamfest. I'd like to use the tuner module as part of a receiver project.

I'm fairly good at reverse-engineering things, but that can be a time consuming process. I wonder if anyone might have service schematics for this box:

Jerrold Impulse CATV Converter
General Instrument Corporation
Jerrold Division
Model DPBB 7312P/RI

The tuner module itself has a sticker with the following information:

LCMM (TAD)
824-522-000 M H
1217DA

Please drop me a line if you can help. My email is:

hpf (atsign) gainbroadband (dot) com

Thanks in advance,

Pete
AC7ZL

```
From 2273719267385440596
X-Google-Thread: fc2a5,b36eae7fbc7a5ee5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.acm.uiuc.edu!
news.xcski.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for schematics for old cable box
Date: 11 Mar 2008 02:34:44 GMT
Organization: The National Capital FreeNet
Lines: 50
Message-ID: <fr4r44$iht$1@theodyn.ncf.ca>
References: <5dGdnbEXAe0_VknanZ2dnUVZ_jydnZ2d@velocitywest.net>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1205202884 19005 134.117.136.48 (11 Mar 2008 02:34:44 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 11 Mar 2008 02:34:44 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15318
```

"H. P. Friedrichs" (nospam@please.com) writes:
> Hi, all--
>
> I picked up an old cable box at a recent hamfest. I'd like to use the
> tuner module as part of a receiver project.
>
> I'm fairly good at reverse-engineering things, but that can be a time
> consuming process. I wonder if anyone might have service schematics for
> this box:
>

How much trouble can it be? Those modules are generally self contained, with only some peripheral circuitry needed.

Often the metal on the modules will be stamped with the function of the pin, though it may be slightly cryptic. Sometimes the circuit board may be marked.

"B+", ground, tuning voltage, a sample of the VCO that has been prescaled via an internal divider, how many other pins can there be? The input and output are generally on Type F connectors, and will be apparent from the markings on the outside of the unit.

Open the case, turn the unit on, and measure the voltages. Change channels and see which one varies. That will be the control voltage.

Or just trace the wiring. There'll be a regulator at the output of the transformer/rectifier, and the output of that will supply a constant voltage to the module. You can either read the voltage off the regulator, or measure it at the output.

The prescaler output will go to some sort of divider, a simple logic counter of some logic family which further prescales it down in frequency.

The control voltage to the VCO will be connected to some really good capacitor, I guess it's before a good op-amp. This would be the "memory", keeping things on channel when it's powered off.

Ground is pretty obvious, though at least some units I've looked at used a negative supply voltage, so the ground was where the positive output of the power supply went.

Those modules are really easy to use, which is why they've ended up being used in various projects over the years.

TV tuners in tv sets and even VCRs tend to be more complicated, since they are single conversion, and they have to be switched from VHF-lo to VHF-hi to UHF, and there is usually a pin on those modules for AGC.

   Michael VE2BVW

```
From -7106531518254409601
X-Google-Thread: fc2a5,54402de1b99a1318,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!u10g2000prn.googlegroups.com!not-for-mail
From: nflstore98@yahoo.com.cn
Newsgroups: rec.radio.amateur.homebrew
Subject: china wholesale cheap 2008 nfl all sear jersey wholesale super bowl
     jersey ,nba jersey 's mlb jersey
Date: Tue, 11 Mar 2008 18:34:17 -0700 (PDT)
Organization: http://groups.google.com
Lines: 107
Message-ID: <3412f642-375f-41d6-aecd-3c5aaf02c9a3@u10g2000prn.googlegroups.com>
NNTP-Posting-Host: 125.78.227.228
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1205285657 22227 127.0.0.1 (12 Mar 2008 01:34:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 12 Mar 2008 01:34:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u10g2000prn.googlegroups.com; posting-host=125.78.227.228;
     posting-account=50taVQoAAAAhkaoLV_-N4n7Y2AgbZQWI
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
     SV1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15319
```

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MLB NHL Jersey korea supplier,nlf NBA Jersey
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Jersey ,youth NBA swingman Jersey ,NBA authentic basketball
Jersey ,basketball Jersey NBA new nwt ,NBA all star game
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Jersey ,NBA and NFL Jersey ,adidas alternate Jersey man
NBA swingman ,NBA Reebok basketball Jersey ,half and half NBA
Jersey ,NBA player Jersey ,2003 NBA all star Jersey ,NBA
century Jersey ,lakers NBA Jersey ,baby NBA Jersey ,david Jersey lee
NBA ,NBA high school Jersey ,iverson NBA Jersey
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new Jersey sed car Jersey city new Jersey ,ford Jersey city new
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,basketball Jersey ,Jersey girl , authentic Reebok NFL Jersey ,NFL
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store ,NFL Jersey chargers ,eagle NFL Jersey ,lady NFL
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draft ,NFL football ticket ,2007 NFL draft ,NFL playoffs
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mock draft ,NFL Jersey ,NFL football ,NFL shop ,NFL
schedule ,NFL cheerleader at www.jerseynflstore.com NFL playoffs
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line ,NFL pick ,2007 NFL schedule ,NFL playoff ,2007 NFL playoff
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playoff ,NFL logo ,NFL team , 104 bush Jersey NFL
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,cape may nj ,mazda monmouth new Jersey ,new Jersey mortgage ,peyton
manning Jersey ,mitsubishi monmouth new Jersey
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of correction ,new Jersey car insurance ,
chrysler monmouth new Jersey ,camden nj ,jeep Jersey city new
Jersey ,custom football Jersey ,Jersey mikes ,NHL Jersey
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atlantic new Jersey ,used car atlantic new Jersey7179 NFL game at
www.jerseynflstore.com 2007 NFL playoffs schedule

```
From -3240282723476192018
X-Google-Thread: fc2a5,223fb415dfe99b36,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e6g2000prf.googlegroups.com!not-for-
mail
From: "sneakersea@yahoo.com.cn" <sneakersea@yahoo.com.cn>
Newsgroups: rec.radio.amateur.homebrew
Subject: china cheap wholesale NFL NHL Jerseys (www.sneakersea.com) nike
     sneaker jordan  shoes air force one gucci
Date: Wed, 12 Mar 2008 08:03:55 -0700 (PDT)
Organization: http://groups.google.com
Lines: 160
Message-ID: <1520cebe-5b10-46cc-9e0e-9c953a7f0569@e6g2000prf.googlegroups.com>
NNTP-Posting-Host: 59.60.116.233
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1205334235 24519 127.0.0.1 (12 Mar 2008 15:03:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 12 Mar 2008 15:03:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e6g2000prf.googlegroups.com; posting-host=59.60.116.233;
     posting-account=LjjbWwoAAADjhecRI9nbP1Aj4irymwok
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     WPS),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15320
```

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youth jersey,adult jerseys,kids jersey,hockey jersey,
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handbags sneakers tshirts,shirt,COOGI,juicy,desquared,woman t-
shirt,callaway-golf,baby woman t shirt,artfull,dodger,adidas,seven
jeans ,jersey wholesale,nfl jersey wholesale,nba jersey wholesale,nba
jerseys wholesale,nfl jersey china supplier,nfl jerseys china
supplier,nba jerseys china supplier,nba jersey china supplier.reebok
jerseys,nfl jersey made in korea,nfl jerseys china wholesaler,nba
jersey china wholesaler,wholesale nfl jerseys ,jerseys
wholesale,soccer jerseys,soccer jerseys,soccer jerseys china
wholesaler,soccer jersey china wholesaler,nfl,nba,mlb,nhl,soccer
jerseys,mlb jerseys,mlb jersey.nhl jersey.nhl jerseys,jerseys
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supplier.jersey china wholesaler,jerseys china wholesaler,nfl jersey
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china
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From -2021538478707573961
X-Google-Thread: fc2a5,dbcf500eebc4542b,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i7g2000prf.googlegroups.com!not-for-mail
From: pa3esf@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: 30e RADIO FLEA MARKET in BEETSTERZWAAG on 31 May 2008
Date: Thu, 13 Mar 2008 14:22:32 -0700 (PDT)
Organization: http://groups.google.com
Lines: 42
Message-ID: <71554951-870f-4e40-8f43-1104dd4deb96@i7g2000prf.googlegroups.com>
NNTP-Posting-Host: 62.221.230.134

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1205443352 2234 127.0.0.1 (13 Mar 2008 21:22:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 13 Mar 2008 21:22:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i7g2000prf.googlegroups.com; posting-host=62.221.230.134;
     posting-account=YOV4MQoAAAA2exfzsEGeZ87c9YD9fCMy
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; nl; rv:1.8.1.12)
     Gecko/20080201 Firefox/2.0.0.12,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15321
```

30e RADIO FLEA MARKET in BEETSTERZWAAG on 31 May 2008

The radio flea market takes place to - 31 May 2008. Do you look for an exotic transistor kit or a super recipient, fixed and do manufacture kit...
or do meet of radio friends? Dan comes Saturday 31 May to the Friese radio market into Beetsterzwaag!

Many thousand visitors come each year from the entire Netherlands and Europe to this radio flea market spectacle, approx. 100 dealers, with most diverse articles, like transmitters, recievers, power supplies, antennas, software, hardware and literature.

Additionally of businessmen in the place also a flea market with many attraction organized for large and small. There are some sales desks free at the moment on the radio flea market, you can reserve by telephone & email, contact on to take with the executive committee. Down are these addresses.

How does one find after Beetsterzwaag? From direction Apeldoorn = > Zwolle = > Meppel = > Heerenveen = > Drachten, departure after Gorredijk Tijnje comes departure (28) Beetsterzwaag.

From direction Bremen = > Groningen = > Drachten = > Heerenveen, departure after Drachten Haven comes departure (28) Beetsterzwaag.

On 2mtr, 145,700 Digi Heerenveen can one to instruct leave themselves. Inlet is from 09:00 to 16:00 MESZ, into which Cafeteria one also boarded into this time.

This whole is organized of VERON FRIESE WOUDEN. Cordially Welcome in Friesland on the 30e FRM!

Look for more information at the site: www.frm.a63.org

Contact people, are:

Announce sales desks & Public relation:
Weit Lap, PA3ESF

Bouekers 40 9247 AR URETERP
Tel. 0031(0) 512 302702
E-mail : admin.frm@a63.org

From -6287316339646106592
X-Google-Thread: fc2a5,8145cd050eab5ccd,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!not-for-mail
From: Jim <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 4CX1500B Plate Voltages SSB/CW-RTTY
Date: Sat, 15 Mar 2008 16:45:43 -0500
Message-ID: <fhgot3tqj4jcmqp38eqfi19knt0f5vi3r1@4ax.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 16
Organization: Newshosting.com - Highest quality at a great price! www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15322

Can anyone tell me what are the normal plate voltages
used on this tube in the two modes? I'm trying to figure out
what plate transformer to look for or try to cobble up?

I've googled lots of these amplifiers but see no mention
of CW/RTTY mode voltages/currents. It looks like about
3000V on SSB but see not mention of other modes. My SB220
had a tap on primary at the SQR2 point to switch modes,
would that be the same for this tube? What would be good
parameters for CW/RTTY operation?

Thanks.

WA5DXP

From -8003043260486941718
X-Google-Thread: fc8b1,8341521e01935dd7,start
X-Google-Thread: 10c2ee,8341521e01935dd7,start
X-Google-Thread: fc2a5,8341521e01935dd7,start
X-Google-Thread: 112d1e,8341521e01935dd7,start
X-Google-Attributes: gidfc8b1,gid10c2ee,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!

```
newscon02.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr14.news.prodigy.net.POSTED!c4667c2f!not-for-
mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.antiques.radio+phono,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Sylvania R1131C octal tube ?
Lines: 12
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>
NNTP-Posting-Host: 70.128.122.130
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr14.news.prodigy.net 1205619787 ST000 70.128.122.130 (Sat, 15 Mar
2008 18:23:07 EDT)
NNTP-Posting-Date: Sat, 15 Mar 2008 18:23:07 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
T[OERYWDPZRORRDXN[O@_WH@YR_B@EXLLBWLOOAFWIWTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Sat, 15 Mar 2008 22:23:07 GMT
Xref: g2news1.google.com rec.radio.amateur.boatanchors:14320
rec.antiques.radio+phono:94697 rec.radio.amateur.homebrew:15323
sci.electronics.design:326615
```

I got a couple of the subject tubes which are supposed to be "glow
modulator tubes". Best I can determine is that the light output will
vary with current but I can't find data sheet googling. If anyone has
pinout and/or data I'd sure like to see it. I think it might be a mid
1960s item as my 1957 Sylvania manual doesn't show it.
thanks

--

73
Hank WD5JFR

```
From -4195415216167372033
X-Google-Thread: fc8b1,8341521e01935dd7
X-Google-Thread: 10c2ee,8341521e01935dd7
X-Google-Thread: fc2a5,8341521e01935dd7
```

```
X-Google-Thread: 112d1e,8341521e01935dd7
X-Google-Attributes: gidfc8b1,gid10c2ee,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!sn-xt-sjc-05!sn-xt-sjc-06!sn-xt-
sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Richard Knoppow" <dickburk@ix.netcom.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.antiques.radio+phono,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Re: Sylvania R1131C octal tube ?
Date: Sat, 15 Mar 2008 16:35:58 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13tonb5qunm955c@corp.supernews.com>
References: <f%XCj.32304$J41.13043@newssvr14.news.prodigy.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 36
X-Original-Bytes: 1897
Xref: g2news1.google.com rec.radio.amateur.boatanchors:14322
rec.antiques.radio+phono:94707 rec.radio.amateur.homebrew:15324
sci.electronics.design:326621
```

"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in message
news:f%XCj.32304$J41.13043@newssvr14.news.prodigy.net...

>I got a couple of the subject tubes which are supposed to
>be "glow modulator tubes". Best I can determine is that
>the light output will vary with current but I can't find
>data sheet googling. If anyone has pinout and/or data I'd
>sure like to see it. I think it might be a mid 1960s item
>as my 1957 Sylvania manual doesn't show it.
> thanks
>
> --
>
> 73
> Hank WD5JFR

Google is your friend. See:
http://www.radiomuseum.org/tubes/tube_r1131c.html for a
little information. Unfortunately they require a membership
fee to download the datasheet illustrated.

Evidently these tubes were orginally used for early
facsimile machines (the sort used to send newspaper wire
photos) but the search shows it was also used extensively in
vision research.

Perhaps someone knows of a better source for the
datasheet.

```
--
---
Richard Knoppow
Los Angeles, CA, USA
dickburk@ix.netcom.com
```

```
From 9014294026176644113
X-Google-Thread: fc2a5,c927504630cd9c8e
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: spiderbeam antenna
Date: Tue, 05 Feb 2008 13:57:55 -0800
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.02.05.21.57.54.796401@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <9f8bd$47a8a44b$d066b697$23287@FUSE.NET>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 8
Organization: Octanews
NNTP-Posting-Date: 05 Feb 2008 15:57:58 CST
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15219
```

Hi,

We used those back in the 80's for CB radios. Kick butt DXing antenna.

But they were quite a bit stronger ;-)

Cheers!

```
From -3229679084918O1324
X-Google-Thread: fc2a5,74ad0f14d5023792
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e6g2000prf.googlegroups.com!not-for-
mail
From: Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Are switch-mode powers supplies suitable for receivers?
```

```
Date: Tue, 5 Feb 2008 16:46:06 -0800 (PST)
Organization: http://groups.google.com
Lines: 93
Message-ID: <08bb8e81-b066-475b-b55c-c366bdc689e7@e6g2000prf.googlegroups.com>
References: <605sh6F1ppo43U1@mid.individual.net>
<b69a69ed-936c-4168-99ea-8e250ab99649@l32g2000hse.googlegroups.com>
     <6288d317-b248-4c08-a697-ebe2ce067bb7@q21g2000hsa.googlegroups.com>
     <3870e4fc-5baa-4229-83fc-3f430876490f@c4g2000hsg.googlegroups.com>
NNTP-Posting-Host: 218.215.179.132
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1202258766 16064 127.0.0.1 (6 Feb 2008 00:46:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 6 Feb 2008 00:46:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e6g2000prf.googlegroups.com; posting-host=218.215.179.132;
     posting-account=LRLqpgkAAACt8OsWZnclc0j8ufDGwSA0
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15220

On Feb 5, 3:52 am, K7ITM <k7...@msn.com> wrote:
> On Feb 4, 3:55 am, Andrew VK3BFA <vk3...@hotmail.com> wrote:
>
>
>
> > On Feb 4, 10:13 pm, Leon <leon...@btinternet.com> wrote:
>
> > > On 28 Jan, 11:27, "Richard" <nearlynews_em...@ntlworld.com> wrote:
>
> > > > I have an ex AM PMR radio that I wish to use on 144Mhz. I need a PSU
feeding
> > > > 24V @ about 300mA.
>
> > > > Are switch-mode powers supplies alright or are they too noisy to be used
for
> > > > receivers? TIA.
>
> > > I use a 12V switcher with my FT-817D, it's very quiet.
>
> > > Leon
>
> > You were lucky - you got a quiet one. And its the luck of the draw,
> > unfortunately.
>
> > How come we have all been conned into these switchmode things? - by
> > their very nature, without a lot of effort, they are noise generators.
> > Their cheap to make, thats their only advantage - everything else is
> > part of the spin cycle. And if it works on 2m and above, fine - you
> > will just be adding to the already horrendous RF pollution from
> > thousands of the bloody things already on HF - the suburbs are getting
```

> > unbearable, S9 plus noise, every night, on 80m.....160 aint to crash
> > hot either...
>
> > I refuse to have to work on a power supply to get it quiet enough to
> > be used with a radio. I am interested in the radio, not fixing
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> > unsuitable to be used near radios. That sucks. Linear technology is
> > far easier and quieter...
>
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> to some of us: efficiency. The receiver I've been working on runs
> from 5VDC, but I have to supply power at 1.0V, 1.2V 1.8V, 2.5V and
> 3.3V, and each one of those uses a switcher. A linear regulator to 1V
> from 5V will result in a supply that's 20% efficient. The switcher
> I'm using for that supply is about 87% efficient under its operating
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> I'd have to supply over twice the power; it would come close to
> violating the power rating of the 5V supply, and power dissipation in
> the receiver would result in excessive heat rise.
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> digital circuits, not the power supplies. -145dBm is, I believe, 20dB
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> themselves shielded. (The receiver RF circuitry is, of course, as is
> the whole receiver module.)
>
> I would be much more circumspect about using a switching supply in a
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> wasn't an issue, but then I'd do a lot of things differently than I
> have for such a receiver. It wouldn't keep me from using switchers;
> I'd just look at the whole design in a different way. On the other
> hand, finding ones that would be adequately quiet for a 144MHz
> receiver should not be difficult at all.
>
> Cheers,
> Tom

Hi Tom,
all points noted, and readily conceded - if the things didn't have
SOME advantages besides low cost, well....
You've got yours down to S1 - mm, well,......so thats the noise floor
you are limited to. And thats probably on a small range of
frequencies, gawd knows where else it is radiating...(and adding to
phase noise in your receiver...)

And, lets be honest, if it isn't causing ME QRM, on the frequency I
want to operate, then its OK......fine for VHF/UHF unless a spur is on
your IF frequency...

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power consumption/efficiency is paramount - but if you can plug your
switch mode power supply into a source of AC power, then whats the
problem with lugging a quiet linear supply as well as the generator
required to run it?

To me, they are a flawed technology, and in a better place would not
be allowed to be used because of their inherent design flaws...

Andrew VK3BFA.

(PS - I do a good "back in the good old days" rant if you like.....)

```
From -7119635891859086l9
X-Google-Thread: fc2a5,74ad0f14d5023792
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-
mail
NNTP-Posting-Date: Tue, 05 Feb 2008 20:45:13 -0600
From: "Bryan" <bryan.swadenerNOSPAM@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <605sh6F1ppo43U1@mid.individual.net>
<b69a69ed-936c-4168-99ea-8e250ab99649@l32g2000hse.googlegroups.com> <6288d317-
b248-4c08-a697-ebe2ce067bb7@q21g2000hsa.googlegroups.com>
<3870e4fc-5baa-4229-83fc-3f430876490f@c4g2000hsg.googlegroups.com> <08bb8e81-
b066-475b-b55c-c366bdc689e7@e6g2000prf.googlegroups.com>
Subject: Re: Are switch-mode powers supplies suitable for receivers?
Date: Tue, 5 Feb 2008 18:44:07 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <H7ednfyUEs6kgjTanZ2dnUVZ_uevnZ2d@giganews.com>
Lines: 112
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-2T4LVjGCIxpje+2ATpxDg/Q6bjzYFK5IsnVWkSA/
wHZ3/2kgeHc2knDIY+btX64vmyYQdtCvvoNDKN8!
tCeqTe0hgmIFQV01FM5nU9nqDKcJewr96dT6pxvP+TZJDI//Tx59NiG3kt4UHo35PweVbMUWnOs=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15221
```

Andrew VK3BFA wrote:

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> >
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>
> Andrew VK3BFA.
>
> (PS - I do a good "back in the good old days" rant if you like.....)

We use a couple of homebrew regulated DC-DC boost converters during Field
Day, one to run the HF xcvr (13.8VDC @ 25A peak) and one to run the laptop
PC for logging (16VDC @ 4.5A), from a 12V wet cell battery "pack"*. Prior
to use, they were "sniffed" (at no load and also full load) with an HP
spectrum analyzer. The analyzer showed only a few very weak spurs in the HF
spectrum that we couldn't hear at all, even on 80m. Of course, they were
properly designed with this use in mind... good decoupling and shielding.
Switching rate is 500KHz; efficiency is in the neighborhood of 90%.

* Battery "pack":
http://img22.imagevenue.com/img.php?image=65659_battery_pack_122_1054lo.jpg

Bryan WA7PRC

```
From 6585947045752187310
X-Google-Thread: fc2a5,2f1fe24db90a7c06,start
X-Google-Thread: 111d0a,2f1fe24db90a7c06,start
X-Google-Thread: 10fe7d,2f1fe24db90a7c06,start
X-Google-Thread: 113975,2f1fe24db90a7c06,start
X-Google-Thread: fc8b1,2f1fe24db90a7c06,start
X-Google-Attributes: gidfc2a5,gid111d0a,gid10fe7d,gid113975,gidfc8b1,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m34g2000hsb.googlegroups.com!not-for-
mail
From: "bill.meara@gmail.com" <bill.meara@gmail.com>
Newsgroups: rec.radio.amateur.homebrew, sci.electronics.basics,
     it.hobby.radioamatori, sci.astro.amateur, rec.radio.amateur.boatanchors
Subject: SolderSmoke 76  Podcast
Date: Tue, 5 Feb 2008 21:36:32 -0800 (PST)
Organization: http://groups.google.com
Lines: 52
Message-ID: <389bfc07-dc99-4a67-8fb4-fa59b07da2ff@m34g2000hsb.googlegroups.com>
NNTP-Posting-Host: 81.208.83.208
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1202276193 32674 127.0.0.1 (6 Feb 2008 05:36:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 6 Feb 2008 05:36:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m34g2000hsb.googlegroups.com; posting-host=81.208.83.208;
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sci.electronics.basics:68552 it.hobby.radioamatori:78239 sci.astro.amateur:100674
rec.radio.amateur.boatanchors:13981
```

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A SHOW FOR ELECTRONICS HOMEBREWERS!

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SolderSmoke #76

February 4, 2008
On the air (HF) from Rome. Stealth antenna.
Fixing my HW 8.
Recording of AA1TJ's Tunnel Diode Beacon.
A FB QST.

Marconi's capacitor (with a quiz).
MAILBAG: Aise 3D2AA homebrewing on Fiji.
Rogier PA1ZZ's California hassles.
Jerry NR5A building tube gear in S.
Dakota.
Niels PE1OIT in defense of DSB.
Ramakrishnan VU3RDD needs articles.
ECHO-GUEST: Ron, AG5RS,
(a Knack sufferer) homebrews in in Dubai, UAE.

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I hope you enjoy the program. Please send us
feedback.

73 from Rome
Bill M0HBR N2CQR CU2JL
http://www.gadgeteer.us

From -1899013861502710043
X-Google-Thread: fc2a5,74ad0f14d5023792
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y5g2000hsf.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Are switch-mode powers supplies suitable for receivers?
Date: Tue, 5 Feb 2008 22:50:55 -0800 (PST)
Organization: http://groups.google.com
Lines: 115
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Xref: g2news1.google.com rec.radio.amateur.homebrew:15223

On Feb 5, 4:46 pm, Andrew VK3BFA <vk3...@hotmail.com> wrote:
> On Feb 5, 3:52 am, K7ITM <k7...@msn.com> wrote:
>
>
>
> > On Feb 4, 3:55 am, Andrew VK3BFA <vk3...@hotmail.com> wrote:
>
> > > On Feb 4, 10:13 pm, Leon <leon...@btinternet.com> wrote:
>
> > > > On 28 Jan, 11:27, "Richard" <nearlynews_em...@ntlworld.com> wrote:
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```

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From 5634470277123998714
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X-Google-Language: ENGLISH,ASCII-7-bit
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From: Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Are switch-mode powers supplies suitable for receivers?
Date: Tue, 5 Feb 2008 23:14:52 -0800 (PST)
Organization: http://groups.google.com
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Xref: g2news1.google.com rec.radio.amateur.homebrew:15224

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> Cheers,
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Hey - I agree - I like the modern DDS chips as well, fantastic things.
(Note - AD specify separate ANALOG supply for them...Mmm?)

I try again - my point is, why bother to stuff around getting a "new"
technology to work when an "old" technology is cheap, easy,simple, and
it works with no extra fiddling.

And if you need a spectrum analyser to check your power supply for
suitability, - that is a bit ludicrous, isn't it? Mad Scientist in
attic room / Tony Hancock sketch sort of thing. Why make things so
difficult? KISS.

Never said there were no quiet switchers - just that the majority were
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Andrew VK3BFA.

From -5911035661608871651
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Date: Wed, 6 Feb 2008 09:25:31 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Are switch-mode powers supplies suitable for receivers?
References: <605sh6F1ppo43U1@mid.individual.net>
 <b69a69ed-936c-4168-99ea-8e250ab99649@l32g2000hse.googlegroups.com>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:15225

Andrew VK3BFA wrote:

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>Never said there were no quiet switchers - just that the majority were
>not....Google on SMPS noise to prove.....
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Sure... but SMPS noise is categorically NOT about "the luck of the draw"
(as you claimed a few days ago).

It's all about skill and care in the design - above all, the input and output filtering. Done correctly, there are no problems, as proved by the many base-station HF transceivers that have a mains SMPS built in.

When you buy a separate SMPS, don't trust to luck. Be an intelligent consumer: read the reviews, specify what you need, ask what has been done to minimize the noise levels, and be prepared to return the unit or walk away.

The only real "luck" is about the SMPSes in other things that your family and neighbours may buy...

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--

73 from Ian GM3SEK         'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek


From -6786082976529428126
X-Google-Thread: fc2a5,74ad0f14d5023792
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From: Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Are switch-mode powers supplies suitable for receivers?
Date: Wed, 6 Feb 2008 02:12:06 -0800 (PST)
Organization: http://groups.google.com
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NNTP-Posting-Date: Wed, 6 Feb 2008 10:12:06 +0000 (UTC)
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Xref: g2news1.google.com rec.radio.amateur.homebrew:15226

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>
> 73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)http://www.ifwtech.co.uk/g3sek

MM, well.....ok., I will add a rider to the "luck of the draw" - if you have the knowledge of the things in the first place, it is axiomatic that you would need to check it out before you buy it - get test data, spectrum analyser screen shots, copy of CE certification' load test data, a copy of the service manual for future reference...probably a few more things as well, I forget.

The rest of us, well.........we basically know bugger all about them, and we havent been hams long enough for someone to tell us "Brand X" is useless. SO we go and buy it, and wonder what the hell went wrong.

And I been fixing the things for 20 years now as a lowly service tech - horrible things, havent seen a quiet one yet..

AND AND...its going to get worse. Plasma TV's radiate to buggery - they have big, and good, filters on the SMPS power supply, but they are S9 at 5 miles.......LCD is better - EXCEPT for the plug pack SMPS type 12v etc power supply hanging off them...had one in for repair, the only sign it was polluting was that the (non ham) owner complained it was interfering with his AM radio reception. (That was interesting in its own right - he had contacted the relevant authority, they had sent him a "do it yourself" booklet, and he found it...I thought that was a pretty good effort)

And the "Brand X" (still on sale, still selling in the shops) - one hapless inexperienced amateur asked me to "modify" - ie quieten it down. Plastic from and rear panels. Bugger all input filtering - and virtually none anywhere else. On 160m, spot frequencies, it was S9+. I got it down to S3, then gave up in disgust.

So, Ian - love your columns, in awe of your knowledge about practical, real radio. I certainly havent got all that much. But this is the view from the trenches, as it were - everyday practical pointy end servicing - so,if I may, I humbly beg to differ. No offense meant, to anyone, and none taken. (Yep - its true - I don't like them...)

Andrew VK3BFA

```
From 2316956965087227141
X-Google-Thread: fc2a5,2e40a49cda43c3d3,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news02.roc.ny.POSTED!62310b36!
not-for-mail
From: Bill Janssen <billj@ieee.org>
Reply-To: billjNOT_THIS@ieee.org
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: HV supply and 150 Watt modulator
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 15
Message-ID: <5zsqj.3490$Sa1.2730@news02.roc.ny>
X-Complaints-To: abuse-news@frontiernet.net
X-Trace:
52616e646f6d4956446f3631ec51d5f455b18ce1419e45920f7a5b6668d5b5e4c43c1c9b8f00885db1
da3cd3f50022e88b749d2d7937383cad25b8eabe847ff3352db528e31e52273f4990d79ec9377089ff
1854bb0e7ff91b9ebc7af63282641fe4c08e203e1d61165ced33e050450074f248e2486f7f7f40afb5
3903cbebf8
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Thu, 07 Feb 2008 00:48:01 UTC
Date: Thu, 07 Feb 2008 00:48:01 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15227

At the scrap yard I frequent I saw a 30 inch or so rack cabinet with a
power supply and modulator.

The cabinet was bent and the tubes were broken  but the transformers
were (I think) undamaged.
It looked like the tubes in the modulator were 811. There was no speech
amplifier.

This was too heavy to lift as It was mostly transformers and chokes

Any one near Sacrament CA that would want this stuff? I will provide
directions to anyone that
wants to see for themselves.

Bill K7NOM



From 2419567388927871996
X-Google-Thread: fc2a5,94e209e58ca2230,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr27.news.prodigy.net.POSTED!80c86d57!not-for-
mail
From: "Gary Waldeck" <gary.waldeck@att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Looking for ICOM F/O cable P/N's: OPC-172, OPC-172A or OPC-189
Lines: 26
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <2pvqj.6334$0w.1874@newssvr27.news.prodigy.net>
NNTP-Posting-Host: 76.200.188.64
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr27.news.prodigy.net 1202356926 ST000 76.200.188.64 (Wed, 06 Feb
2008 23:02:06 EST)
NNTP-Posting-Date: Wed, 06 Feb 2008 23:02:06 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
[[O]R^OGLRE]SVXXJJJB_STDTJYNQBQLGPQRJVMHQAVTUZ]CLNTCPFK[WDXDHV[K^FCGJCJLPF_D_NCC@F
UG^Q\DINVAXSLIFXYJSSCCALP@PB@\OS@BITWAH\CQZKJMMD^SJA^NXA\GVLSRBD^M_NW_F[YLVTWIGAXA
QBOATKBBQRXECDFDMQ\DZFUE@\JM
Date: Thu, 07 Feb 2008 04:02:06 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15228

Hello all -

I am looking for a replacement fiber optic cable that was used in the ICOM IC-901A/E multi-band radio system.

The ICOM Fiber Optic Cable part numbers that will work are: OPC-172, OPC-172A or OPC-189.

I have looked at the manufacturer's site and talked to their support staff, they are no longer stocking or supporting these parts. I have also looked on e-Bay and several other sites without success

If someone knows where I might find any of these part numbers, either new or used, I'd be grateful.

Thanks for any help.

Gary Waldeck, K6AIR

Gwaldeck (at) ix (dot) Netcom (dot) com

Looking for ICOM F/O cable P/N's: OPC-172, OPC-172A or OPC-189

From 5725777211895072810
X-Google-Thread: fcc6e,77720cd15c812a76,start
X-Google-Thread: 11480d,77720cd15c812a76,start
X-Google-Thread: 108122,77720cd15c812a76,start
X-Google-Thread: fc2a5,77720cd15c812a76,start
X-Google-Thread: 10b9c8,77720cd15c812a76,start
X-Google-Attributes: gidfcc6e,gid11480d,gid108122,gidfc2a5,gid10b9c8,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!
newscon02.news.prodigy.net!prodigy.net!news-out.readnews.com!
transit4.readnews.com!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1199689500@panix.com>
Followup-To: poster
Date: 7 Feb 2008 02:05:01 -0500
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 11 Mar 2008 03:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1202367901@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1202367902 4893 166.84.1.2 (7 Feb 2008 07:05:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 7 Feb 2008 07:05:02 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:54583 rec.radio.amateur.dx:3883
rec.radio.amateur.equipment:13956 rec.radio.amateur.homebrew:15229
rec.radio.info:670

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information

bulletin formerly posted to rec.radio.amateur.* (and currently archived
at http://www.faqs.org/faqs/radio/personal-intro/):

 radio/personal-intro
 Subject: Guide to the rec.radio Newsgroups
 Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
 Last Posted: 9 Nov 2001 06:18:17 GMT
 Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions. We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

```
From -1115998036735150022
X-Google-Thread: fc2a5,94e209e58ca2230
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.litech.org!not-for-mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for ICOM F/O cable P/N's: OPC-172, OPC-172A or OPC-189
Date: Thu, 7 Feb 2008 16:55:35 +0000 (UTC)
Organization: Me?
Lines: 42
Sender: mikea@mikea.ath.cx
Message-ID: <fofd67$q3h$3@puck.litech.org>
References: <2pvqj.6334$0w.1874@newssvr27.news.prodigy.net>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1202403335 26737 70.164.65.62 (7 Feb 2008 16:55:35 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Thu, 7 Feb 2008 16:55:35 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news1.google.com rec.radio.amateur.homebrew:15230
```

On Thu, 07 Feb 2008 04:02:06 GMT,
 Gary Waldeck <gary.waldeck@att.net> wrote in

<2pvqj.6334$0w.1874@newssvr27.news.prodigy.net>:

> Hello all -

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First thing to do is identify the connectors; next is to ID the cable wavelength and whether singlemode or multimode. I'm not sure that the mode matters all that much for shorty cables, but it can for long runs. Once you've got those IDed, you probably can find someone local to fab a cable for you.

If ICOM can give you that stuff, you're home free. Otherwise, you may need to look at part numbers in the hardware.

FO cables are pretty much tinkertoys with standard connectors and standard cables, and I'd be surprised if ICOM used something non-std. just to make things more difficult.

Best of luck.

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From -9280247218319018700
X-Google-Thread: fc2a5,5b79af38f41f6122,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews2.bellsouth.net.POSTED!f0db3255!not-for-mail
From: "KF4DNA" <kf4dna@kf4dna.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Extreme WebPage
Lines: 8

X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <c0Pqj.62885$k27.14031@bignews2.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcbonofgikgofgkifdbojgdidmoiaignhckldedjolgcgefnidhcjhghjenebfengbeecmdepfdmbbfeapjpbocmcoimkllbemfocnpdjnlfiihalnbd
NNTP-Posting-Date: Thu, 07 Feb 2008 21:20:56 EST
Organization: BellSouth Internet Group
Date: Thu, 7 Feb 2008 20:20:56 -0600
Xref: g2news1.google.com rec.radio.amateur.homebrew:15231

Updated content to include data from the February 5, 2008 "Tornado Outbreak"
in the mid-south. Damage photos and radar images of the storms that roared
thru
several southern states.

http://www.kf4dna.net

From -1289724038494342216
X-Google-Thread: fc2a5,94e209e58ca2230
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!p69g2000hsa.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for ICOM F/O cable P/N's: OPC-172, OPC-172A or OPC-189
Date: Fri, 8 Feb 2008 11:24:38 -0800 (PST)
Organization: http://groups.google.com
Lines: 54
Message-ID: <4362c8f5-fef4-4024-8a69-66045e2562df@p69g2000hsa.googlegroups.com>
References: <2pvqj.6334$0w.1874@newssvr27.news.prodigy.net>
     <fofd67$q3h$3@puck.litech.org>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1202498679 7677 127.0.0.1 (8 Feb 2008 19:24:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 8 Feb 2008 19:24:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p69g2000hsa.googlegroups.com; posting-host=204.108.8.5;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR

```
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15232
```

```
Mike Andrews wrote:
> On Thu, 07 Feb 2008 04:02:06 GMT,
>  Gary Waldeck <gary.waldeck@att.net> wrote in
>  <2pvqj.6334$0w.1874@newssvr27.news.prodigy.net>:
>
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> FO cables are pretty much tinkertoys with standard connectors and
> standard cables, and I'd be surprised if ICOM used something non-std.
> just to make things more difficult.
>
> Best of luck.
>
> --
> Mike Andrews, W5EGO
> mikea@mikea.ath.cx
> Tired old sysadmin
```

Finding a suitable replacement may be as simple as going to circuit
city or best buy. A lot of audio/video equipment uses fiber optic

```
interconnect cables.


Jimmie



From 7667108777188665389
X-Google-Thread: fc2a5,5fcfac897df65a93,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!cycny01.gnilink.net!
spamkiller2.gnilink.net!gnilink.net!trndny08.POSTED!2f2a0986!not-for-mail
From: "RP" <rpjones@NOSPAMverizon.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Cantenna dummyload oil
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <7pnrj.1378$J93.474@trndny08>
Date: Sat, 09 Feb 2008 19:45:07 GMT
NNTP-Posting-Host: 96.232.109.212
X-Complaints-To: abuse@verizon.net
X-Trace: trndny08 1202586307 96.232.109.212 (Sat, 09 Feb 2008 14:45:07 EST)
NNTP-Posting-Date: Sat, 09 Feb 2008 14:45:07 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:15233

Hi I need to building a 4 ohm 1500 watt "cantenna paint can style" dummy
load for audio and guitar amp work. I have forgotten what type of oil to use
for heat transfer.
Id like something easy to get (like peanut or something with a high
flashpoint).
Don't want to loose the house.
Joe "NOSPAM"





From -7441410137706959588
X-Google-Thread: fc2a5,5fcfac897df65a93
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!news-2.mpls.iphouse.net.POSTED!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cantenna dummyload oil
From: Bert Hyman <bert@iphouse.com>
References: <7pnrj.1378$J93.474@trndny08>
Organization: Not that you'd notice
Message-ID: <Xns9A3F8DDCED900VeebleFetzer@216.250.184.7>
User-Agent: Xnews/2006.08.24
```

Date: 09 Feb 2008 19:56:13 GMT
Lines: 19
NNTP-Posting-Date: 09 Feb 2008 13:56:13 CST
NNTP-Posting-Host: 0bf730f3.newsreader.iphouse.net
X-Trace:
DXC=kfRU1mQTkhNAnIREHOgFaNVn\Tj8`^BbKeHS>e[L>83@aVe\R\13c:Ec230oU7d71AX7@2h;nGb4Mk
O@^B=b2cnG
X-Complaints-To: abuse@iphouse.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15234

In news:7pnrj.1378$J93.474@trndny08 "RP" <rpjones@NOSPAMverizon.net>
wrote:

> Hi I need to building a 4 ohm 1500 watt "cantenna paint can style"
> dummy load for audio and guitar amp work. I have forgotten what type
> of oil to use for heat transfer.
> Id like something easy to get (like peanut or something with a high
> flashpoint).
> Don't want to loose the house.

MFJ sells the correct "transformer oil" by the gallon for $30/gal, but the
manual for their version of the cantenna says you can use "mineral oil".

http://www.mfjenterprises.com/Product.php?productid=MFJ-21

http://www.mfjenterprises.com/man/pdf/MFJ-250X.pdf

--
Bert Hyman   St. Paul, MN bert@iphouse.com

From 2582233554527871002
X-Google-Thread: fc2a5,5fcfac897df65a93
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
140.99.99.194.MISMATCH!news-in-02.newsfeed.easynews.com!easynews.com!easynews!
hwmnpeer01.phx!news.highwinds-media.com!hw-filter.phx!newsfe15.phx.POSTED!
53ab2750!not-for-mail
From: "The Shadow" <Repose@Zilch.com>
Newsgroups: rec.radio.amateur.homebrew
References: <7pnrj.1378$J93.474@trndny08>
Subject: Re: Cantenna dummyload oil
Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <7Enrj.24370$ov5.23885@newsfe15.phx>
NNTP-Posting-Host: 72.197.13.209
X-Complaints-To: newsmaster@cox.net

X-Trace: newsfe15.phx 1202587267 72.197.13.209 (Sat, 09 Feb 2008 13:01:07 MST)
NNTP-Posting-Date: Sat, 09 Feb 2008 13:01:07 MST
Organization: Cox
Date: Sat, 9 Feb 2008 12:01:16 -0800
Xref: g2news1.google.com rec.radio.amateur.homebrew:15235

"RP" <rpjones@NOSPAMverizon.net> wrote in message
news:7pnrj.1378$J93.474@trndny08...
> Hi I need to building a 4 ohm 1500 watt "cantenna paint can style" dummy
> load for audio and guitar amp work. I have forgotten what type of oil to
> use for heat transfer.
> Id like something easy to get (like peanut or something with a high
> flashpoint).
> Don't want to loose the house.
> Joe "NOSPAM"
>

See E-Ham Article
http://www.eham.net/forums/Elmers/33528

Also a construction article with oil recommendation

http://www.k4eaa.com/dummy.html

Lamont

From 5993113003806831777
X-Google-Thread: fc2a5,5fcfac897df65a93
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 09 Feb 2008 18:38:53 -0600
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups: rec.radio.amateur.homebrew
References: <7pnrj.1378$J93.474@trndny08>
Subject: Re: Cantenna dummyload oil
Date: Sat, 9 Feb 2008 19:38:53 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <MJidnfCir_ED2jPanZ2dnUVZ_hOdnZ2d@comcast.com>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.199.227.60
X-Trace: sv3-qFNzOMzW4MH27OYkqAaUtIemza3DknM0UVsWd1DGlEhE0fjAnnfjc+

+8Gnc9ApWqp1gvK6d5gLp2635!XpAC+FULRyJ/K5/qi2MY+slJ8Ap1xjVrrkz7va8D/
wv1HrGiG3pcUlWSgoa+lbbseFRUZ7IYZV2b!rz9vQ86DYFxhDGYeX+gTIa3tFtBSaA==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15236

"RP" <rpjones@NOSPAMverizon.net> wrote in message
news:7pnrj.1378$J93.474@trndny08...
> Hi I need to building a 4 ohm 1500 watt "cantenna paint can style" dummy load
> for audio and guitar amp work. I have forgotten what type of oil to use for
> heat transfer.
> Id like something easy to get (like peanut or something with a high
> flashpoint).
> Don't want to loose the house.
> Joe "NOSPAM"
>

In another life, I worked at a Motorola commercial 2-way radio shop. We used Heathkit Cantennas for all of our test benches. All were filled with mineral oil. Ran that way for years, never a problem.

--
Dave M
MasonDG44 at comcast dot net (Just substitute the appropriate characters in the address)

"In theory, there isn't any difference between theory and practice. In practice, there is." - Yogi Berra

From 8922891804803088630
X-Google-Thread: fc2a5,5fcfac897df65a93
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!core-easynews!easynews.com!easynews!en-nntp-07.dc1.easynews.com.POSTED!not-for-mail
From: John Ferrell <johnferrell@sprintmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cantenna dummyload oil
Message-ID: <lqauq310ffrqhp111bgg3vb886bqmlbduc@4ax.com>
References: <7pnrj.1378$J93.474@trndny08>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 23

```
X-Complaints-To: abuse@easynews.com
Organization: Forte Inc.  http://www.forteinc.com/apn/
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Sun, 10 Feb 2008 12:02:06 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:15237

On Sat, 09 Feb 2008 19:45:07 GMT, "RP" <rpjones@NOSPAMverizon.net>
wrote:

>Hi I need to building a 4 ohm 1500 watt "cantenna paint can style" dummy
>load for audio and guitar amp work. I have forgotten what type of oil to use
>for heat transfer.
>Id like something easy to get (like peanut or something with a high
>flashpoint).
>Don't want to loose the house.
>Joe "NOSPAM"
>
The idea of using a cantenna for audio is new to me.

I would be inclined to use distilled water for continuous use and tap
water if use is intermittent. Cheap & trivial risks!

As I think back of all the lash ups I have used to build and test
power supplies through the years I think you have led me to a much
more practical solution!

John Ferrell W8CCW
"Life is easier if you learn to
plow around the stumps"


From 9170805220694470806
X-Google-Thread: fc2a5,5fcfac897df65a93
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
newsgate.cistron.nl!xs4all!transit2.news.xs4all.nl!post.news.xs4all.nl!not-for-
mail
From: "MRe" <m.reneman=geenspam=@hccnet.nl>
Newsgroups: rec.radio.amateur.homebrew
References: <7pnrj.1378$J93.474@trndny08>
<4ahuq3l04bf6uiq7oovu7gk2v87q8j9948@4ax.com>
Subject: Re: Cantenna dummyload oil
Date: Sun, 10 Feb 2008 22:18:30 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Lines: 47
Message-ID: <47af6a8f$0$85780$e4fe514c@news.xs4all.nl>
NNTP-Posting-Host: 82.95.217.228
```

X-Trace: 1202678415 news.xs4all.nl 85780 [::ffff:82.95.217.228]:50453
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:15239

Even vegetable oil will do, as this (partly german) website
proves.....:-)
http://www.markusleonhardt.de/en/oelrechner.html

MRE
PE1NQR

"Jim Higgins" <invalid@invalid.invalid> schreef in bericht
news:4ahuq3l04bf6uiq7oovu7gk2v87q8j9948@4ax.com...
> On Sat, 09 Feb 2008 19:45:07 GMT, "RP"
> <rpjones@NOSPAMverizon.net>
> wrote:
>
>>Hi I need to building a 4 ohm 1500 watt "cantenna paint can
>>style" dummy
>>load for audio and guitar amp work. I have forgotten what type
>>of oil to use
>>for heat transfer.
>>Id like something easy to get (like peanut or something with a
>>high
>>flashpoint).
>>Don't want to loose the house.
>>Joe "NOSPAM"
>
>
> I suggest light mineral oil, unless you can get transformer oil
> cheaper. Both are mineral oil, one just a bit more refined,
> which is
> absolutely unnecessary in your application - or as 50 ohm
> amateur
> radio dummy loads for that matter.
>
> I only listed the "Transformer Oil" link below for its
> reference to
> mineral oil. I'm not for a second suggesting any of the fancy
> new
> alternatives mentioned at that link.
>
> http://en.wikipedia.org/wiki/Mineral_oil
> http://en.wikipedia.org/wiki/Transformer_oil
>

```
From -2592217144327769090
X-Google-Thread: fc2a5,5fcfac897df65a93
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
s19g2000prg.googlegroups.com!not-for-mail
From: NM0S <ai9e_qrp@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cantenna dummyload oil
Date: Mon, 11 Feb 2008 06:33:41 -0800 (PST)
Organization: http://groups.google.com
Lines: 16
Message-ID: <0f0eb321-9ff8-4c1c-ae70-96200e6dfad5@s19g2000prg.googlegroups.com>
References: <7pnrj.1378$J93.474@trndny08>
NNTP-Posting-Host: 205.175.225.24
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1202740421 16948 127.0.0.1 (11 Feb 2008 14:33:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 11 Feb 2008 14:33:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s19g2000prg.googlegroups.com; posting-host=205.175.225.24;
     posting-account=vLPEuwoAAAA4HkgukB8NwDUoUloeQunY
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     InfoPath.1; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15240

On Feb 9, 1:45=A0pm, "RP" <rpjo...@NOSPAMverizon.net> wrote:
> Hi I need to building a 4 ohm 1500 watt "cantenna paint can style" dummy
> load for audio and guitar amp work. I have forgotten what type of oil to u=
se
> for heat transfer.
> Id like something easy to get (like peanut or something with a high
> flashpoint).
> Don't want to loose the house.
> Joe "NOSPAM"

I used 'baby oil' - the local pharmacy had a bunch marked down 80% as
it was close to expiration. It is just scented mineral oil - what
could 'expire' in that?  It works fine in my cantenna, and smells
better than anything else in the shack.

73 - NM0S


From -5657744101702672717
X-Google-Thread: fc2a5,f874e2070b03d9da,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!not-for-
```

mail
From: WA5DXP <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Need Article from July 1986 QST P 45
Date: Mon, 11 Feb 2008 13:45:37 -0600
Message-ID: <dk81r35j0230klugrkldde6m1idc557ogs@4ax.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 14
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15242

Anyone have the above QST that can possibly scan an article
 E-mail it to me or give me some dimensions from the article?

"Adapting Hy Tower for use on 30 M"

Thanks,

Jim, WA5DXP
wa5dxp@gmail.com

From -114542438495952620
X-Google-Thread: fc2a5,5fcfac897df65a93
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 11 Feb 2008 13:52:51 -0600
Newsgroups: rec.radio.amateur.homebrew
From: Ben Jackson <ben@ben.com>
Subject: Re: Cantenna dummyload oil
References: <7pnrj.1378$J93.474@trndny08>
Message-ID: <slrnfr19sk.2961.ben@saturn.home.ben.com>
User-Agent: slrn/0.9.8.0 (FreeBSD)
Date: Mon, 11 Feb 2008 13:52:52 -0600
Lines: 10
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.59.212.44
X-Trace: sv3-MxGsySpgQac5E3cfi7RY8mZ77CGFpwnbbZ28RYALS1VicIqwpQmCB7x6JSazMvmxi/
uOS9HWuJ9JNiV!
mzVm1d3Ribd3I3Hfx40mts0MjLIqJaIjCh3w6QWXeHjDbbjPIjTfi3CTfngjPxwCd2JFd3ef8Yq7!

2IFn0avfKtu3Qu1nLA/nRw==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15243

On 2008-02-09, RP <rpjones@NOSPAMverizon.net> wrote:
> Id like something easy to get (like peanut or something with a high
> flashpoint).

Use mineral oil. Don't use any kind of food oil -- it will go rancid.

--
Ben Jackson AD7GD
<ben@ben.com>
http://www.ben.com/

From -306870703601263077
X-Google-Thread: fc2a5,c9463932aa69b79f,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!indigo.octanews.net!news-out.octanews.net!mauve.octanews.net!news-out.readnews.com!postnews3.readnews.com!posts.news.usenetmonster.com!nnrp3.asbnva.usenetmonster.com!not-for-mail
From: "JimL" <jimbethladd@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: R.F. Choke Design
Date: Mon, 11 Feb 2008 19:13:41 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Lines: 8
Message-ID: <47b0e48e$0$21978$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
NNTP-Posting-Host: aec1d26b.news.usenetmonster.com
X-Trace:
DXC=YC;:9cI_NC]g>9Q03j@8`Ym>XX`Id5knX`IohDjb_78\fS<P4`=U54SC92P2_gPk6YNDGKJ?U5m?TAmXDJ7MT?L_^i`c6@2M]nZMcem1ih\DoY]9EUgW=ND?_
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15244

Greetings- can someone provide data on their home made choke for connecting
across the output of a 1 KW, 3.5 mhz , transmitter working into 50 ohms.
The so called safety choke to prevent the HV plate voltage from appearing on
the antenna in case of failure of a blocking capacitor. Normally a
commercial 2.5 MHY RFC is used. Perhaps something wound on a ferrite rod.
Thanks, Jim.

From -6238519227196498584
X-Google-Thread: fc2a5,c9463932aa69b79f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 11 Feb 2008 18:38:38 -0600
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups: rec.radio.amateur.homebrew
References: <47b0e48e$0$21978$ec3e2dad@news.usenetmonster.com>
Subject: Re: R.F. Choke Design
Date: Mon, 11 Feb 2008 19:38:37 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <kfqdnXNnSroTdy3anZ2dnUVZ_qqgnZ2d@comcast.com>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.199.227.60
X-Trace: sv3-lRjnr5V6wkvufvt5xEJItYN/
LoQ0V3t448yy8NLPnoYv0n+31LpIrn1VLaaSLejzNTIFTQwXkQNL3ze!
ZAC39B+ujgwZmKu3a83PRR60zfr0+jQBQH7X0fxciOz9VXOhCMQXIh33FyIMlQRrH5Yf0j9kV03v!
jlIUm3lvTIyZ+r2GG9vKJFYsazB28A==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15245

"JimL" <jimbethladd@aol.com> wrote in message
news:47b0e48e$0$21978$ec3e2dad@news.usenetmonster.com...
> Greetings- can someone provide data on their home made choke for connecting
> across the output of a 1 KW, 3.5 mhz , transmitter working into 50 ohms. The
> so called safety choke to prevent the HV plate voltage from appearing on the
> antenna in case of failure of a blocking capacitor. Normally a commercial 2.5
> MHY RFC is used. Perhaps something wound on a ferrite rod. Thanks, Jim.
>

You might try calculating the inductance of a choke that presents about 500 to
1000 ohms of inductive reactance of the transmitter frequency. Use wire that
can handle about 2 to 3 times the plate current of the final, or 2 to 3 times
the HV fuse rating.
The math is left as an exercise for the OP.

--
Dave M
MasonDG44 at comcast dot net (Just substitute the appropriate characters in the address)

"In theory, there isn't any difference between theory and practice. In practice, there is." - Yogi Berra

```
From 4533324439471677145
X-Google-Thread: 108122,66733f9197887a57,start
X-Google-Thread: fc8b1,66733f9197887a57,start
X-Google-Thread: 10c2ee,66733f9197887a57,start
X-Google-Thread: fc2a5,66733f9197887a57,start
X-Google-Attributes: gid108122,gidfc8b1,gid10c2ee,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out02a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
newscon02.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr29.news.prodigy.net.POSTED!ef855899!not-for-
mail
From: patrick jankowiak <eccm@swbell.net>
Reply-To:  recyclerREMOVE_THIS@swbell.net
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.boatanchors,rec.antiques.radio+phono
,rec.radio.amateur.homebrew
Subject: unusual manuals and focus coils
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 080211-0, 02/11/2008), Outbound message
X-Antivirus-Status: Clean
Lines: 67
Message-ID: <By6sj.11025$Ej5.6299@newssvr29.news.prodigy.net>
NNTP-Posting-Host: 208.190.133.204
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr29.news.prodigy.net 1202779425 ST000 208.190.133.204 (Mon, 11 Feb
2008 20:23:45 EST)
NNTP-Posting-Date: Mon, 11 Feb 2008 20:23:45 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
Q[R_@SREVZVIBFD[YRKNOPDA[X_LPO@FQQ]ZMVMHQAVTUZ]CLNTCPFK[WDXDHV[K^FCGJCJLPF_D_NCC@F
UG^Q\DINVAXSLIFXYJSSCCALP@PB@\OS@BITWAH\CQZKJMMD^SJA^NXA\GVLSRBD^M_NW_F[YLVTWIGAXA
QBOATKBBQRXECDFDMQ\DZFUE@\JM
Date: Tue, 12 Feb 2008 01:23:45 GMT
Xref: g2news1.google.com rec.radio.amateur.equipment:13997
rec.radio.amateur.boatanchors:14035 rec.antiques.radio+phono:92400
rec.radio.amateur.homebrew:15246
```

Hi,

looking for these things:

]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]

MANUALS:

1.)
T-408/URT-12, also called AN/URT-12
Military radio transmitter, Coast Guard

2.)
Conrac model CNA-8
8" black and white video monitor, tube kind

3.)
RCA model TM-9AN
8" black and white video monitor, tube kind

(#2 and #3 are very similar)

]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]

ITEMS:

4.)
50 degree to 110 degree yokes fitting electromagnetic deflected CRTs
that have a "small-shell duodecal base"

5.)
focus coils and magnet assemblied from old TV set CRTs that have a
"small-shell duodecal base"

Referring to the base type of the CRTs is the best I can do to to indicate the diameter of the tube neck, which is about 1.5" The base socket has 12 positions (pins) but not all are used. Usually 6 are used, or 5, in the case of a magnetic focus CRT.

All the yokes and focus devices I am looking for refer to those used on black and white TV sets with this kind of CRT neck diameter. This is really old junque and much has been pitched if the original TV chassis was unserviceable, etc.

These are for a project where I want to operate a 10" electromagnetic deflection, magnetic focus CRT. There are a number of NOS CRTs having interesting phosphors, being from radar sets. Basically I saved them from the landfill, and want to put together a few unusual monochrome video monitors. Why stare at the boxes on a shelf??

For me, driving a yoke is trivial, but finding ones for these CRTs is a challenge.

I have a few 10SP4, which are 50 degree deflection, one 10UP14B, and
some 10VP15 and 10VP47's -FAA spares.

]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]

I can be reached at the reply-to (un-mung it..) or please find my
contact info downscreen at www.bunkerofdoom.com

thanks,
Patrick

```
From -8438503970525754810
X-Google-Thread: fc2a5,c9463932aa69b79f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe20.lga.POSTED!53ab2750!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <47b0e48e$0$21978$ec3e2dad@news.usenetmonster.com>
Subject: Re: R.F. Choke Design
Lines: 6
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <DB6sj.175$aj7.28@newsfe20.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe20.lga 1202779619 72.209.25.33 (Mon, 11 Feb 2008 18:26:59 MST)
NNTP-Posting-Date: Mon, 11 Feb 2008 18:26:59 MST
Organization: Cox
Date: Mon, 11 Feb 2008 20:26:58 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:15247
```

Watch out for possible core saturation when using a ferrite device
for that application.

Pete

```
From -3064738600377423095
X-Google-Thread: fc2a5,c9463932aa69b79f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!indigo.octanews.net!news-
```

```
out.octanews.net!mauve.octanews.net!news-out.readnews.com!postnews3.readnews.com!
posts.news.usenetmonster.com!nnrp3.asbnva.usenetmonster.com!not-for-mail
From: "JimL" <jimbethladd@aol.com>
Newsgroups: rec.radio.amateur.homebrew
References: <47b0e48e$0$21978$ec3e2dad@news.usenetmonster.com>
<kfqdnXNnSroTdy3anZ2dnUVZ_qqgnZ2d@comcast.com>
Subject: Re: R.F. Choke Design
Date: Mon, 11 Feb 2008 21:10:19 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Lines: 34
Message-ID: <47b0ffe2$0$21995$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
NNTP-Posting-Host: 83a7837a.news.usenetmonster.com
X-Trace:
DXC=_ET\H@_dKWfMY@PmI`coNlm>XX`Id5knh`IohDjb_78lWRea]>ln;FbC92P2_gPk6iNDGKJ?U5m?
dAmXDJ7MT?Lo2?d=GI0IF2dnVm1P2cU0JceK9o<EY`nGh
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15248


"DaveM" <masondg4499@comcast99.net> wrote in message
news:kfqdnXNnSroTdy3anZ2dnUVZ_qqgnZ2d@comcast.com...
> "JimL" <jimbethladd@aol.com> wrote in message
> news:47b0e48e$0$21978$ec3e2dad@news.usenetmonster.com...
>> Greetings- can someone provide data on their home made choke for
>> connecting across the output of a 1 KW, 3.5 mhz , transmitter  working
>> into 50 ohms. The so called safety choke to prevent the HV plate voltage
>> from appearing on the antenna in case of failure of a blocking capacitor.
>> Normally a commercial 2.5 MHY  RFC is used. Perhaps something wound on a
>> ferrite rod. Thanks, Jim.
>>
>
> You might try calculating the inductance of a choke that presents about
> 500 to 1000 ohms of inductive reactance of the transmitter frequency.  Use
> wire that can handle about 2 to 3 times the plate current of the final, or
> 2 to 3 times the HV fuse rating.
> The math is left as an exercise for the OP.
>
> --
> Dave M
> MasonDG44 at comcast dot net  (Just substitute the appropriate characters
> in the address)
>
> "In theory, there isn't any difference between theory and practice.  In
> practice, there is."  - Yogi Berra
> Thanks. That calculation is trivial. A more difficult calculation is
> determining what effect say, a 25 uhy choke, would have on the pi network
> to which it is connected. Evidentally  1 or 2.5 mhy has a negligible
> effect, since it never is considered in the literature I have seen.
```

> Perhaps the same is true for the 25 uhy., but I am too lazy to do the
> math.Quicker to just try same. Jim.

From -7214220210960738593
X-Google-Thread: fc2a5,5fcfac897df65a93
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 11 Feb 2008 20:47:23 -0600
From: "Bryan" <bryan.swadenerNOSPAM@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <7pnrj.1378$J93.474@trndny08>
Subject: Re: Cantenna dummyload oil
Date: Mon, 11 Feb 2008 18:47:54 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <WMidnWaqt5kmlSzanZ2dnUVZ_uCinZ2d@giganews.com>
Lines: 27
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-Cp8E8gj+VC3b12LxEMpga9Nq5TbZpFGIKIWl99p+6fZ8ubX877H/
VwviaUqePmfC+OftanmAIqFzL+a!OoCdO7mPlofATNLQLtVDZyzBJqU97uL4lTPq3ilNdWj5rb/
hDMdo63S4a0ea5FvGbmkWTpQflsM=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15249

RP wrote:
> Hi I need to building a 4 ohm 1500 watt "cantenna paint can style" dummy
> load for audio and guitar amp work. I have forgotten what type of oil to
use
> for heat transfer.
> Id like something easy to get (like peanut or something with a high
> flashpoint).
> Don't want to loose the house.
> Joe "NOSPAM"

Hi Joe,

I recently revived a Cantenna. When it came time to refill, I considered
mineral oil and decided to go with transfomer oil because of the better
thermal characteristic. Others have suggested that you can buy it from MFJ,
but I found it as close as my local power company. It was no big deal for

them to give me a gallon. ^5

Your audio dummy load sounds interesting. You might consider keeping an eye
on the oil temperature, as my Cantenna gets noticeably warm fairly
quickly... can't drive it at 1KW sinewave for very long. I envision a
thermistor > comparator > audible indicator.

73,
Bryan WA7PRC

From 4782453538729218358
X-Google-Thread: fc2a5,5fcfac897df65a93
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: Erich <n6fd@mchsi.com>
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cantenna dummyload oil
References: <7pnrj.1378$J93.474@trndny08>
<4ahuq3l04bf6uiq7oovu7gk2v87q8j9948@4ax.com>
In-Reply-To: <4ahuq3l04bf6uiq7oovu7gk2v87q8j9948@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 35
Message-ID: <iP8sj.29645$9j6.18226@attbi_s22>
NNTP-Posting-Host: 12.219.240.218
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1202788686 12.219.240.218 (Tue, 12 Feb 2008 03:58:06 GMT)
NNTP-Posting-Date: Tue, 12 Feb 2008 03:58:06 GMT
Organization: AT&T ASP.att.net
Date: Tue, 12 Feb 2008 03:58:06 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15250

Mineral oil works well. The only problem I had was that the extreme
temperature swings where I live put some condensation in the cantenna
and the bottom eventually rusted out. An old paint can works just as
well but doesn't have the fancy graphics on the outside.

The look on the clerk's face when you check out in the drug store with a
gallon of mineral oil - PRICELESS!

Erich, N6FD

Jim Higgins wrote:
> On Sat, 09 Feb 2008 19:45:07 GMT, "RP" <rpjones@NOSPAMverizon.net>
> wrote:

```
>
>> Hi I need to building a 4 ohm 1500 watt "cantenna paint can style" dummy
>> load for audio and guitar amp work. I have forgotten what type of oil to use
>> for heat transfer.
>> Id like something easy to get (like peanut or something with a high
>> flashpoint).
>> Don't want to loose the house.
>> Joe "NOSPAM"
>
>
> I suggest light mineral oil, unless you can get transformer oil
> cheaper.  Both are mineral oil, one just a bit more refined, which is
> absolutely unnecessary in your application - or as 50 ohm amateur
> radio dummy loads for that matter.
>
> I only listed the "Transformer Oil" link below for its reference to
> mineral oil.  I'm not for a second suggesting any of the fancy new
> alternatives mentioned at that link.
>
> http://en.wikipedia.org/wiki/Mineral_oil
> http://en.wikipedia.org/wiki/Transformer_oil
>


From 8502712058247192745
X-Google-Thread: fc2a5,f874e2070b03d9da
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!i12g2000prf.googlegroups.com!not-for-
mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need Article from July 1986 QST P 45
Date: Tue, 12 Feb 2008 04:11:07 -0800 (PST)
Organization: http://groups.google.com
Lines: 15
Message-ID: <bf2986c4-5c34-42e1-8606-f2ac3c4ea5c3@i12g2000prf.googlegroups.com>
References: <dk81r35j0230klugrkldde6m1idc557ogs@4ax.com>
NNTP-Posting-Host: 97.84.159.244
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1202818268 5192 127.0.0.1 (12 Feb 2008 12:11:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 12 Feb 2008 12:11:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i12g2000prf.googlegroups.com; posting-host=97.84.159.244;
     posting-account=K8YolwoAAADy0A2iW37gF9k2mykeXqaI
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT
     5.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15251
```

```
On Feb 11, 2:45=A0pm, WA5DXP <nos...@nospam.com> wrote:
> Anyone have the above QST that can =A0possibly scan an article
> =A0E-mail it to me or give me some dimensions from the article?
>
> "Adapting Hy Tower for use on 30 M"
>
> Thanks,
>
> Jim, WA5DXP
> wa5...@gmail.com

It is copyright material... How about you calling QST and offering to
pay the small fee to have a copy sent?

denny - k8do



From 2556775524548826844
X-Google-Thread: fc2a5,c9463932aa69b79f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
m34g2000hsf.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: R.F. Choke Design
Date: Tue, 12 Feb 2008 06:27:38 -0800 (PST)
Organization: http://groups.google.com
Lines: 19
Message-ID: <f1c32875-a223-4dae-94f5-7c7f398fba85@m34g2000hsf.googlegroups.com>
References: <47b0e48e$0$21978$ec3e2dad@news.usenetmonster.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1202826459 22963 127.0.0.1 (12 Feb 2008 14:27:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 12 Feb 2008 14:27:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m34g2000hsf.googlegroups.com; posting-host=170.121.15.35;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15252

On Feb 11, 7:13=A0pm, "JimL" <jimbethl...@aol.com> wrote:
> Greetings- can someone provide data on their home made choke for connectin=
g
> across the output of a 1 KW, 3.5 mhz , transmitter =A0working into 50 ohms=
.
> The so called safety choke to prevent the HV plate voltage from appearing =
on
```

> the antenna in case of failure of a blocking capacitor. Normally a
> commercial 2.5 MHY =A0RFC is used. Perhaps something wound on a ferrite ro=
d.

The requirements for the safety choke are pretty tame compared to a
plate choke. The impedance level around it is 50 ohms (contrast it
with thousands of ohms around a plate choke), so you don't have to
maintain a particularly high RF impedance.

In other words, the same choke you used for the plate choke would work
just fine.

From 2212543596488215622
X-Google-Thread: fc2a5,84119558b97eed7,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n20g2000hsh.googlegroups.com!not-for-mail
From: Vintage <radiovintage2000@yahoo.it>
Newsgroups: rec.radio.amateur.homebrew
Subject: SALE TUBES NEW
Date: Tue, 12 Feb 2008 08:59:42 -0800 (PST)
Organization: http://groups.google.com
Lines: 6
Message-ID: <9b3b0353-0d54-44cc-bd50-18e32fa971f0@n20g2000hsh.googlegroups.com>
NNTP-Posting-Host: 87.7.239.112
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1202835582 10481 127.0.0.1 (12 Feb 2008 16:59:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 12 Feb 2008 16:59:42 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n20g2000hsh.googlegroups.com; posting-host=87.7.239.112;
posting-account=RipOkAoAAAB32s8w43jyZFhxuNS9HKXD
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15253

Sale stock Vacuum Tubes New in BOX

Some types 7403 / 12SK7 / 12SW7 / 2050W / 5894 / 2C43 /
5R4 / 5933WA / 4X150A AND OTHER TYPE.

TNX FRANK

From -6149597079556399489
X-Google-Thread: fc2a5,f874e2070b03d9da
X-Google-Attributes: gidfc2a5,public,usenet

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out02b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!news-
in-02.newsfeed.easynews.com!easynews.com!easynews!sn-xt-sjc-03!sn-xt-sjc-08!sn-
post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need Article from July 1986 QST P 45
Date: Tue, 12 Feb 2008 11:18:17 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13r3l6hsel37m57@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <dk81r35j0230klugrkldde6m1idc557ogs@4ax.com> <bf2986c4-5c34-42e1-8606-
f2ac3c4ea5c3@i12g2000prf.googlegroups.com>
In-Reply-To: <bf2986c4-5c34-42e1-8606-f2ac3c4ea5c3@i12g2000prf.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 24
Xref: g2news1.google.com rec.radio.amateur.homebrew:15254

Denny wrote:

> On Feb 11, 2:45 pm, WA5DXP <nos...@nospam.com> wrote:
>
>>Anyone have the above QST that can  possibly scan an article
>> E-mail it to me or give me some dimensions from the article?
>>
>>"Adapting Hy Tower for use on 30 M"
>>
>>Thanks,
>>
>>Jim, WA5DXP
>>wa5...@gmail.com
>
>
> It is copyright material... How about you calling QST and offering to
> pay the small fee to have a copy sent?
>
How about lobbying the ARRL, and I mean strongly, to release the antique
issues into the public domain or at least make PDFs available on their
site, after all QST is an organ of the radio amateur service, and the
old content should not be the gist of profit.

Michael


From 1285771094698255333
X-Google-Thread: fc2a5,23dd3efb0b27667
X-Google-Attributes: gidfc2a5,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s12g2000prg.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6146 data
Date: Tue, 12 Feb 2008 14:17:04 -0800 (PST)
Organization: http://groups.google.com
Lines: 65
Message-ID: <d54cb640-47b1-41e6-a54b-c391deb54625@s12g2000prg.googlegroups.com>
References: <4796a402$0$22578$4c368faf@roadrunner.com>
<XRxlj.311911$Fc.250450@attbi_s21>
     <47a0fcd9$1@clear.net.nz> <47a61d5a$0$30718$4c368faf@roadrunner.com>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1202854631 4677 127.0.0.1 (12 Feb 2008 22:17:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 12 Feb 2008 22:17:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s12g2000prg.googlegroups.com; posting-host=204.108.8.5;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15255

Jimmie D wrote:
> "cliff wright" <c.c.wright@paradise.net.nz> wrote in message
> news:47a0fcd9$1@clear.net.nz...
> > Harold E. Johnson wrote:
> >> "Jimmie D" <GFENDER@carolina.rr.com> wrote in message
> >> news:4796a402$0$22578$4c368faf@roadrunner.com...
> >>
> >>>I am trying to build a class AB linear amp usig a 6146, plate voltage
> >>>will be about 600 volts. What's the peak drive voltage for this
> >>>configuration.
> >>>
> >>>Jimmie
> >>
> >> About one Volt less than the DC bias on the grid.
> >>
> >> W4ZCB
> >>
> >>
> >>
> > Hi Jimmy.
> > Harold is just about right for class AB1. You can get a bit more out in
> > AB2 with a small grid current but I don't reccomend it. Remember to keep
> > your cathode leads short and well bypassed.

> > The best way is to have a grid current meter and NOT to run the stage
> > into grid current.
> > The 6146 especially the B type can be a bit unstable otherwise. I found
> > that my old Kenwood 820S doesn't like them in the final. The original
> > Japanese S2001's though apparently similar to the 6146B work much better.
> > 73's Cliff Wright ZL1BDA
>
> THats what I thought too but I wasnt getting the plate current I should be
> getting. I figured I may have a design poblem since this was a new amp still
> in the design stage. A few math errors on my part muddied the waters even
> more. At first I calculated my drive voltage from my transceiver very close
> to 45 volts, my bias voltage. Then I recalculated it again once I started
> having problems but this time got 36 volts. Well, 45 was correct but I wasnt
> getting that much, more like 35. The problem wasnt a design flaw though. It
> was just a cockpit error on my part. I was running my transceiver off of 12
> volts instead of 13.5. This made quite a bit of difference in my output.
>
> Now to get this ugly saftey hazard put together so I can use it without
> risking family and pets.
>
> Jimmie

I've been trying to build a 6m for a few weeks now having the usual
build it from scratch problems. Today I was out in the barn looking
for a suitable plate choke when I found just what I wanted underneath
a chassis, a Z-50 choke. After closer inspection of the chassis I
realised it was an amp using a pair of 6146Bs almost identical to what
i was trying to build. Initial test showed the B+ filter caps shorted
and diodes were bad. Power supply came up fine after finishing the
repairs

I also found part of an old GE lo band VHF transmitter that would also
make a great 6M amp.
power supply seems to work fine. Every thing except the PA (paralell
807s) stage and power supply had been stripped from the chassis.

I was wondering If anyone else had ever started a project to discover
they already had it but didnt know it.

Jimmie

From 428655274848366023
X-Google-Thread: fc2a5,c9463932aa69b79f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 12 Feb 2008 16:36:21 -0600
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups: rec.radio.amateur.homebrew
References: <47b0e48e$0$21978$ec3e2dad@news.usenetmonster.com>

```
<kfqdnXNnSroTdy3anZ2dnUVZ_qqgnZ2d@comcast.com>
<47b0ffe2$0$21995$ec3e2dad@news.usenetmonster.com>
Subject: Re: R.F. Choke Design
Date: Tue, 12 Feb 2008 17:36:21 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <-_mdnUGcP4T4gi_anZ2dnUVZ_hmtnZ2d@comcast.com>
Lines: 59
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.199.227.60
X-Trace: sv3-r68LgkTM/auDRarHtqpJv1vZ1JMK9ch2uPTDXG4TFqQR6/NkT0y2vgXF/
tvCDBBVdrmn5Jamcsr1Z9n!
HNmB2L6fnyKFIY44DSPH0SXtFkFzWrgTevTVc3lPcMkCbnoYU+g1IuivlohL0SxG0K+hdnDGCWom!
zL0M+jbfyzcH5TUBa6/xQucPvNIdig==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15256

"JimL" <jimbethladd@aol.com> wrote in message
news:47b0ffe2$0$21995$ec3e2dad@news.usenetmonster.com...
>
> "DaveM" <masondg4499@comcast99.net> wrote in message
> news:kfqdnXNnSroTdy3anZ2dnUVZ_qqgnZ2d@comcast.com...
>> "JimL" <jimbethladd@aol.com> wrote in message
>> news:47b0e48e$0$21978$ec3e2dad@news.usenetmonster.com...
>>> Greetings- can someone provide data on their home made choke for connecting
>>> across the output of a 1 KW, 3.5 mhz , transmitter  working into 50 ohms.
>>> The so called safety choke to prevent the HV plate voltage from appearing on
>>> the antenna in case of failure of a blocking capacitor. Normally a
>>> commercial 2.5 MHY  RFC is used. Perhaps something wound on a ferrite rod.
>>> Thanks, Jim.
>>>
>>
>> You might try calculating the inductance of a choke that presents about 500
>> to 1000 ohms of inductive reactance of the transmitter frequency.  Use wire
>> that can handle about 2 to 3 times the plate current of the final, or 2 to 3
>> times the HV fuse rating.
>> The math is left as an exercise for the OP.
>>
>> --
>> Dave M
>> MasonDG44 at comcast dot net  (Just substitute the appropriate characters in
>> the address)
>>
>> "In theory, there isn't any difference between theory and practice.  In
>> practice, there is."  - Yogi Berra
```

>> Thanks. That calculation is trivial. A more difficult calculation is
>> determining what effect say, a 25 uhy choke, would have on the pi network to
>> which it is connected. Evidentally 1 or 2.5 mhy has a negligible effect,
>> since it never is considered in the literature I have seen. Perhaps the same
>> is true for the 25 uhy., but I am too lazy to do the math.Quicker to just try
>> same. Jim.
>
>

My reasoning for recommending those values is this:
Since the circuit impedance around the RFC is 50 ohms, I figured that if the
inductor presented a reactance around 10-20 times that, it wouldn't upset the
tuning (well, maybe just a tad, but insignificant). The wire in the coil should
be big enough to carry the HV current until the HV fuse blows, without damaging
the coil itself.
If you figure the physical size of a 25-50 uH coil, using wire that can handle
the current, it might be a bit large. A 1-2.5 mHy coil would be very large
(lots of turns of large wire).
Considering the power levels involved, using a magnetic core in the coil would
probably waste a good bit of heat.
If you're going to experiment with inductor sizes, I'd be interested in hearing
your results.

--
Dave M
MasonDG44 at comcast dot net (Just substitute the appropriate characters in the
address)

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practice, there is." - Yogi Berra

From -65715124416321055
X-Google-Thread: 108122,66733f9197887a57
X-Google-Thread: fc8b1,66733f9197887a57
X-Google-Thread: 10c2ee,66733f9197887a57
X-Google-Thread: fc2a5,66733f9197887a57
X-Google-Attributes: gid108122,gidfc8b1,gid10c2ee,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q77g2000hsh.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.equipment, rec.radio.amateur.boatanchors,
     rec.antiques.radio+phono, rec.radio.amateur.homebrew
Subject: Re: unusual manuals and focus coils
Date: Tue, 12 Feb 2008 17:32:08 -0800 (PST)
Organization: http://groups.google.com
Lines: 23
Message-ID: <c076f774-6142-43ce-b88a-163120120c0d@q77g2000hsh.googlegroups.com>
References: <By6sj.11025$Ej5.6299@newssvr29.news.prodigy.net>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0

```
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1202866328 12622 127.0.0.1 (13 Feb 2008 01:32:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 13 Feb 2008 01:32:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q77g2000hsh.googlegroups.com; posting-host=204.108.8.5;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.equipment:14000
rec.radio.amateur.boatanchors:14049 rec.antiques.radio+phono:92465
rec.radio.amateur.homebrew:15257



patrick jankowiak wrote:
> Hi,
>
> looking for these things:
>
> ]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
>
>
> MANUALS:
>
> 1.)
> T-408/URT-12, also called AN/URT-12
> Military radio transmitter, Coast Guard
>
> 2.)
> Conrac model CNA-8
> 8" black and white video monitor, tube kind

Just threw one out, You got a BRITE DISPLAY SYSTEM or something.

Jimmie


From 5193467818764060667
X-Google-Thread: fc2a5,c9463932aa69b79f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out02b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!news-out.readnews.com!
postnews3.readnews.com!posts.news.usenetmonster.com!
nnrp3.asbnva.usenetmonster.com!not-for-mail
From: "JimL" <jimbethladd@aol.com>
Newsgroups: rec.radio.amateur.homebrew
References: <47b0e48e$0$21978$ec3e2dad@news.usenetmonster.com>
<kfqdnXNnSroTdy3anZ2dnUVZ_qqgnZ2d@comcast.com>
```

```
<47b0ffe2$0$21995$ec3e2dad@news.usenetmonster.com> <-
_mdnUGcP4T4gi_anZ2dnUVZ_hmtnZ2d@comcast.com>
Subject: Re: R.F. Choke Design
Date: Tue, 12 Feb 2008 21:12:41 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Lines: 68
Message-ID: <47b251f0$0$21987$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
NNTP-Posting-Host: 7a71c336.news.usenetmonster.com
X-Trace:
DXC=QnHT9>];gY`Y14:adYZQ>fm>XX`Id5knh`IohDjb_78lFDn9HY2dj4eC92P2_gPk6iNDGKJ?U5m?
dAmXDJ7MT?Lo?RA0ffSKR2a8KnI6bo_7[j4;:gKYk\>gd
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15258


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> Dave M
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> in the address)
>
> "In theory, there isn't any difference between theory and practice. In
> practice, there is." - Yogi Berra
> Hi Dave, I installed a 40 uhy choke, 1" inch in dia,, closewound with #22
> enameled wire, about 1.75" long. My plate choke is #26 as I remember, and
> 140 uhy. Plate current is 600 ma max, plate voltage supply is 2300V, power
> out is 600 w. key down from a pair of 813's in GG. The new choke has not
> gone up in flames, and amp tunes OK. 40 uhy gives a reactance of about 880
> ohms at 3.5 mhz. 73, Jim.

From -2617106864305972012
X-Google-Thread: fc2a5,c9463932aa69b79f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-05!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: R.F. Choke Design
Date: Tue, 12 Feb 2008 18:13:00 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13r4kh7tk12m1a@corp.supernews.com>
References: <47b0e48e$0$21978$ec3e2dad@news.usenetmonster.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198

X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 11
Xref: g2news1.google.com rec.radio.amateur.homebrew:15259

1000 ohms reactance at 3.5 MHz would be almost invisible to the rf output tuning. I have a drawer full of old surplus rf chokes, wound with large wire. Generally one section. About 1/2 the size of a golf ball. I have thrown those in and they work fine. For lower power, a standard 2.5 mh choke is ok, but I like larger wire size for higher voltage and current. The old tuning units from the BC-375 would have a handful of such chokes, with nice ceramic stand-offs.

73, Colin K7FM

From 2159702643021102677
X-Google-Thread: fc2a5,c927504630cd9c8e
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 12 Feb 2008 20:16:12 -0600
From: "Tom C." <tecoates@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <9f8bd$47a8a44b$d066b697$23287@FUSE.NET>
Subject: Re: spiderbeam antenna
Date: Tue, 12 Feb 2008 21:16:11 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <boGdnRuvNvBxzy_anZ2dnUVZ_gudnZ2d@comcast.com>
Lines: 42
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.251.161.44
X-Trace: sv3-gjgO6DtKLnGf5G8yMLv8+ihj++40QOzqcswml/
bB+fvGrgyoIpwHI8nLp8wQ0ZxklEV7rcczg/0fh1+!
WqRgd6kUjWuJH3MPLNAQFmkJk4sKaGrNGILplGSv4p9iWgMwsi1BQT7iZ9RkB5gpw9SiKEcwn8Y+!
8g53XO3KVbYzlhX9ypu7qks0cLio1A==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15260

There was a review in QST in the past year or so. Rosalie White was the author, I believe.

```
Tom, N3IJ

"jawod" <jawod@fuse.net> wrote in message
news:9f8bd$47a8a44b$d066b697$23287@FUSE.NET...
> I tried to post on the antenna group but most of the conversation over
> there seems to remain on a rather esoteric (and pedantic) plan.
>
> So I'll try here (hope that's OK)
>
> I had a QSO with a VE who uses a "SpiderBeam" which I had never heard of.
>
> Apparently it is a folded modified Moxon design wherein the reflector
> and director elements (made of wire) are folded back toward the center
> of the antenna
>
>      _______
>      \     /
>       \   /
>     ---------
>
>       /   \
>      /_____\
>
> I am actually proud of that drawing (!)
>
> It comes as a kit that you construct with fiberglass tubes ,etc.
>
> It is reportedly used a lot in DXpeditions.
>
> Now they have a "home version" that is a little more sturdy.
>
> Has anyone used it and care to comment?
>
> Much appreciated
>
> John
> AB8O




From -6185059235523832525
X-Google-Thread: fc2a5,f874e2070b03d9da
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!not-for-
mail
From: Jim <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need Article from July 1986 QST P 45
Date: Wed, 13 Feb 2008 05:52:43 -0600
```

```
Message-ID: <hbm5r3pqh7r484rkh9c95efibcqqh9qbuo@4ax.com>
References: <dk81r35j0230klugrkldde6m1idc557ogs@4ax.com> <bf2986c4-5c34-42e1-8606-
f2ac3c4ea5c3@i12g2000prf.googlegroups.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 24
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15261

Did you not get enough nursing as a child?  You probably
work for some Government agency.  Thanks for your help.



On Tue, 12 Feb 2008 04:11:07 -0800 (PST), Denny <k8do@mailblocks.com>
wrote:

>On Feb 11, 2:45�pm, WA5DXP <nos...@nospam.com> wrote:
>> Anyone have the above QST that can �possibly scan an article
>> �E-mail it to me or give me some dimensions from the article?
>>
>> "Adapting Hy Tower for use on 30 M"
>>
>> Thanks,
>>
>> Jim, WA5DXP
>> wa5...@gmail.com
>
>It is copyright material... How about you calling QST and offering to
>pay the small fee to have a copy sent?
>
>denny - k8do



From -7709463380499405000
X-Google-Thread: fc2a5,8457db446f9df99b,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!news.stack.nl!
feeds.news.ox.ac.uk!news.ox.ac.uk!feed2.jnfs.ja.net!jnfs.ja.net!
newsgateway.nottingham.ac.uk!news.nottingham.ac.uk!not-for-mail
From: "Dave Bullock" <DaveB@ihr.mrc.ac.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Mitsubishi block madifications?
Date: Wed, 13 Feb 2008 11:57:22 -0000
Organization: The University of Nottingham (http://www.nottingham.ac.uk/)
Lines: 14
```

Message-ID: <foulv2$duk$1@oyez.ccc.nottingham.ac.uk>
NNTP-Posting-Host: nus224.ihr.mrc.ac.uk
X-Trace: oyez.ccc.nottingham.ac.uk 1202903842 14292 128.243.7.224 (13 Feb 2008 11:57:22 GMT)
X-Complaints-To: usenet@news.nottingham.ac.uk
NNTP-Posting-Date: 13 Feb 2008 11:57:22 GMT
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Xref: g2news1.google.com rec.radio.amateur.homebrew:15262

Hi Homebrewers,
Has anyone ever seen information on modifing the innards of Mitsubishi M67730's.
The top comes off really easily and the input and output filters (which have series inductors and caps to ground) seem to have several positions for fitting the capacitors as though the block is quite wideband and the filters set the bandpass.
Just an idea that these 30 Watt 170MHz units may easily be moved down onto 2m?
Has anyone attempted this?
Thanks in anticpation
Dave

From 5599308616502757647
X-Google-Thread: fc2a5,c9463932aa69b79f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 13 Feb 2008 17:01:44 -0600
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups: rec.radio.amateur.homebrew
References: <47b0e48e$0$21978$ec3e2dad@news.usenetmonster.com> <kfqdnXNnSroTdy3anZ2dnUVZ_qqgnZ2d@comcast.com> <47b0ffe2$0$21995$ec3e2dad@news.usenetmonster.com> <-_mdnUGcP4T4gi_anZ2dnUVZ_hmtnZ2d@comcast.com> <47b251f0$0$21987$ec3e2dad@news.usenetmonster.com>
Subject: Re: R.F. Choke Design
Date: Wed, 13 Feb 2008 18:01:43 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <P9-dnZmtMaZF6y7anZ2dnUVZ_s2tnZ2d@comcast.com>
Lines: 84

```
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.199.227.60
X-Trace: sv3-Dgeexni8RBNjh+fgqmMoMUPJWgACyHc96RAO/
dpTsJwaGyjWnOCcZciBZvDOiZypzR506ikXjA3Cz6L!
Um5dUS9rVAblXJbkQyvVSvxr2l66Bs7zEqFXZ5S89xURMCgItOrymJ7ON71gF+0Sun9/6sTQrVOf!/aF/
6wyYfWS4wSZeimkWWgwHcGSy1Q==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15263

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>> Considering the power levels involved, using a magnetic core in the coil
>> would probably waste a good bit of heat.
>> If you're going to experiment with inductor sizes, I'd be interested in
>> hearing your results.
>> --
>> Dave M
>> MasonDG44 at comcast dot net (Just substitute the appropriate characters in
>> the address)
>>
>> "In theory, there isn't any difference between theory and practice. In
>> practice, there is." - Yogi Berra
>> Hi Dave, I installed a 40 uhy choke, 1" inch in dia,, closewound with #22
>> enameled wire, about 1.75" long. My plate choke is #26 as I remember, and 140
>> uhy. Plate current is 600 ma max, plate voltage supply is 2300V, power out is
>> 600 w. key down from a pair of 813's in GG. The new choke has not gone up in
>> flames, and amp tunes OK. 40 uhy gives a reactance of about 880 ohms at 3.5
>> mhz. 73, Jim.
>
>

Thanks for reporting back with the results. Glad to hear that the tuning wasn't
upset, and that everything seems to be going according to theory.
Good luck with the rest of the project.

--
Dave M
MasonDG44 at comcast dot net (Just substitute the appropriate characters in the
address)

"In theory, there isn't any difference between theory and practice. In
practice, there is." - Yogi Berra

From -3059893511979018851
X-Google-Thread: fc2a5,8457db446f9df99b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!novia!

feed.news.qwest.net!mpls-nntp-03.inet.qwest.net!news.qwest.net!not-for-mail
Date: Thu, 14 Feb 2008 07:49:59 -0800
From: PhattyMo <PhattyMo@nospam.gmail>
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Mitsubishi block madifications?
References: <foulv2$duk$1@oyez.ccc.nottingham.ac.uk>
In-Reply-To: <foulv2$duk$1@oyez.ccc.nottingham.ac.uk>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 21
Message-ID: <47b4629b$0$3568$815e3792@news.qwest.net>
Organization: Qwest Communications Corporation
NNTP-Posting-Host: 2f3f9206.news.qwest.net
X-Trace: DXC=Z`CR0Bec?
=bd]dRM8_dP0jF85SKJoGf>djN>TJ71_ge`d^84UIESDFbV2d8a9:BHQa^ZCmPJhjJdo_gGAQJ4jdYh`gH
@5?M`bge
X-Complaints-To: news@qwest.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15264

Dave Bullock wrote:
> Hi Homebrewers,
> Has anyone ever seen information on modifing the innards of Mitsubishi
> M67730's.
> The top comes off really easily and the input and output filters (which have
> series inductors and caps to ground) seem to have several positions for
> fitting the capacitors as though the block is quite wideband and the filters
> set the bandpass.
> Just an idea that these 30 Watt 170MHz units may easily be moved down onto
> 2m?
> Has anyone attempted this?
> Thanks in anticpation
> Dave
>
>

Dunno about modifying them,but some of them will go a bit out of the
specified freq range,with a bit less gain/power output.
I have a 6W 420-450mhz module that works up past 467mhz,and still makes
4-5W output.

From -7044580500207497415
X-Google-Thread: fc2a5,aad57ac90144b54a,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!1g2000hsl.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: 48 volt power supply

```
Date: Thu, 14 Feb 2008 12:51:57 -0800 (PST)
Organization: http://groups.google.com
Lines: 10
Message-ID: <40f420a4-ef9f-4451-bba9-1450d5ada576@1g2000hsl.googlegroups.com>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1203022317 20532 127.0.0.1 (14 Feb 2008 20:51:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 14 Feb 2008 20:51:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 1g2000hsl.googlegroups.com; posting-host=204.108.8.5;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15265
```

I was thinking about using a UPS as a power supply for an amplifier. The UPS is rated at over 2KW and uses 48 volts on the DC bus. I have tried powering an amp directly from the batteries and it seems to work OK. Battery pack is rate at 20 amp/hr. The inverter side of the UPS is dead but the charger side is still functional. The plan is to remove the inverter circuit completely. Can anyone think of anything wrong with doing this.

JImmie

```
From -3533173109628230378
X-Google-Thread: fc2a5,8457db446f9df99b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!u10g2000prn.googlegroups.com!not-for-
mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Mitsubishi block madifications?
Date: Thu, 14 Feb 2008 12:55:56 -0800 (PST)
Organization: http://groups.google.com
Lines: 21
Message-ID: <a41ad7f6-c2f8-4d52-899d-c25c904d9f68@u10g2000prn.googlegroups.com>
References: <foulv2$duk$1@oyez.ccc.nottingham.ac.uk>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1203022556 20968 127.0.0.1 (14 Feb 2008 20:55:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 14 Feb 2008 20:55:56 +0000 (UTC)
Complaints-To: groups-abuse@google.com
```

Injection-Info: u10g2000prn.googlegroups.com; posting-host=204.108.8.5;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15266

On Feb 13, 6:57=A0am, "Dave Bullock" <Da...@ihr.mrc.ac.uk> wrote:
> Hi Homebrewers,
> Has anyone ever seen information on modifing the innards of Mitsubishi
> M67730's.
> The top comes off really easily and the input and output filters (which ha=
ve
> series inductors and caps to ground) seem to have several positions for
> fitting the capacitors as though the block is quite wideband and the filte=
rs
> set the bandpass.
> Just an idea that these 30 Watt 170MHz units may easily be moved down onto=

> 2m?
> Has anyone attempted this?
> Thanks in anticpation
> Dave

Might be fun to install a compression type variable cap and see if you
could tune it. It shouldnt be too risky if you keep your drive low.

Jimmie

From -5203709732940113941
X-Google-Thread: fc2a5,aad57ac90144b54a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!37g2000hsl.googlegroups.com!not-for-mail
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 48 volt power supply
Date: Thu, 14 Feb 2008 13:53:53 -0800 (PST)
Organization: http://groups.google.com
Lines: 21
Message-ID: <2e319f4b-0105-498f-a234-c24fd7ee47ae@37g2000hsl.googlegroups.com>
References: <40f420a4-ef9f-4451-bba9-1450d5ada576@1g2000hsl.googlegroups.com>
NNTP-Posting-Host: 72.0.177.83
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1203026033 3847 127.0.0.1 (14 Feb 2008 21:53:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 14 Feb 2008 21:53:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 37g2000hsl.googlegroups.com; posting-host=72.0.177.83;

```
     posting-account=LQVNZAkAAAAHQ9vQRrCB-Qc9fLbREhw4
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.12)
     Gecko/20080201 Firefox/2.0.0.12,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15267
```

On Feb 14, 12:51 pm, jimmi...@gmail.com wrote:

> I was thinking about using a UPS as a power supply for an amplifier.
> The UPS is rated at over 2KW and uses 48 volts on the DC bus. I have
> tried powering an amp directly from the batteries and it seems to work
> OK. Battery pack is rate at 20 amp/hr. The inverter side of the UPS is
> dead but the charger side is still functional. The plan is to remove
> the inverter circuit completely. Can anyone think of anything wrong
> with doing this.
>
> JImmie

Do you plan on leaving the batteries in the unit? They act as a large filter capacitor for the unit. If you take them out, you will need to use some rather large filter capacitors to get anything close to DC. If you have an oscilloscope, look at the waveform with the batteries in place and with them disconnected. That will tell you how badly you need filtering.

Good luck,
Paul KD7HB

```
From 3123703121759459170
X-Google-Thread: fc2a5,aad57ac90144b54a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!70g2000hsv.googlegroups.com!not-for-
mail
From: jgboyles@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 48 volt power supply
Date: Thu, 14 Feb 2008 14:49:09 -0800 (PST)
Organization: http://groups.google.com
Lines: 22
Message-ID: <b492804c-6d44-4a44-9eb6-b48282a6d12b@70g2000hsv.googlegroups.com>
References: <40f420a4-ef9f-4451-bba9-1450d5ada576@1g2000hsl.googlegroups.com>
NNTP-Posting-Host: 205.188.116.144
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1203029349 14100 127.0.0.1 (14 Feb 2008 22:49:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 14 Feb 2008 22:49:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 70g2000hsv.googlegroups.com; posting-host=205.188.116.144;
     posting-account=EDccDAkAAAABP46fNoIwHp5AsVAkR7WJ
```

```
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
     SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
3.0.04506),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.2 [uScMs f p eN:t cCMp s ]), HTTP/1.1
     spider-dtc-td04.proxy.aol.com[CDBC7064] (Prism/1.2.1), HTTP/1.1
     cache-dtc-ac15.proxy.aol.com[CDBC7490] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:15268

On Feb 14, 2:51=EF=BF=BDpm, jimmi...@gmail.com wrote:
> I was thinking about using a UPS as a power supply for an amplifier.
> The UPS is rated at over 2KW and uses 48 volts on the DC bus. I have
> tried powering an amp directly from the batteries and it seems to work
> OK. Battery pack is rate at 20 amp/hr. The inverter side of the UPS is
> dead but the charger side is still functional. The plan is to remove
> the inverter circuit completely. Can anyone think of anything wrong
> with doing this.
>
> JImmie

  It should work OK.  The only problem I see is if the charger is not
regulated.  It probably is to keep the batteries from overcharging.  I
bet that baby is heavy.
  I have found a 48 volt 20 amp supply that I use with my EB104 Amp
that is about 8 lbs.  The Amp itself is about 5 lbs., so I have 600
watts out in under 15 lbs. or .4 oz./watt.
  The power supply is less than $300 USD including shipping.  If you
want more details, let me know.

73 Gary N4AST




From -5259154915186584753
X-Google-Thread: fc2a5,8457db446f9df99b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe18.lga.POSTED!53ab2750!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <foulv2$duk$1@oyez.ccc.nottingham.ac.uk>
Subject: Re: Mitsubishi block madifications?
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <gv5tj.779$yk5.528@newsfe18.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe18.lga 1203037260 72.209.25.33 (Thu, 14 Feb 2008 18:01:00 MST)
```

NNTP-Posting-Date: Thu, 14 Feb 2008 18:01:00 MST
Organization: Cox
Date: Thu, 14 Feb 2008 20:00:58 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:15269

"Dave Bullock" <DaveB@ihr.mrc.ac.uk> wrote in message
news:foulv2$duk$1@oyez.ccc.nottingham.ac.uk...
> Hi Homebrewers,
> Has anyone ever seen information on modifing the innards of Mitsubishi
> M67730's.
> The top comes off really easily and the input and output filters (which
> have series inductors and caps to ground) seem to have several positions
> for fitting the capacitors as though the block is quite wideband and the
> filters set the bandpass.
> Just an idea that these 30 Watt 170MHz units may easily be moved down onto
> 2m?
> Has anyone attempted this?
> Thanks in anticpation
> Dave

Series inductors and caps to ground indicate a low pass filter. The
arrangement
sounds like a harmonic filter. You probably can go lower in frequency with
no
changes.

Pete k1zjh

>

From 4766864099459338726
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 14 Feb 2008 22:49:31 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<478bda15$0$16036$5fc30a8@news.tiscali.it>
<COudnSYWppIMYhbanZ2dnUVZ_vCknZ2d@comcast.com> <d2Uij.22583$m6.7751@newsfe18.lga>
Subject: Re: April 1977 QST article
Date: Thu, 14 Feb 2008 22:49:38 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180

```
X-RFC2646: Format=Flowed; Response
Message-ID: <h_qdnZCyvdtGhCjanZ2dnUVZ_qainZ2d@comcast.com>
Lines: 19
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.239.37.56
X-Trace: sv3-
dYTK2Ykv7CXWh6QPjknBbjYPelvqLNvM32mruyl0XsiwXO3gvdabUbZCRYbPQmi5unJxSGd+9E85c5U!
ZBxt94RmlHyp9J/yD0s/RdqHMZ0iBOj6un57pFp2kIyOkMz7WTkTqdueUrfBK/IPzSzFijG//ky9!
XXvwnnRyblC5OLO7zCPtbzeP92Ij
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15270

Hey Pedro,

Could you please send me another copy of that article I sent
you................I had to format my hard drive, and I lost that article.
Thanks!

Pete

"Tio Pedro" <radioconnection@cox.net> wrote in message
news:d2Uij.22583$m6.7751@newsfe18.lga...
> Hey Pete
>
> Send the other Pete a copy...
>
> Tio Pedro
>
>




From 5599682889460764074
X-Google-Thread: fc2a5,97a2d4f1eb574bc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!z17g2000hsg.googlegroups.com!not-for-
mail
From: Bert <hcm1955@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Syncing Up Multiple Magnetrons
Date: Thu, 24 Jan 2008 19:31:00 -0800 (PST)
Organization: http://groups.google.com
Lines: 60
Message-ID: <bcc0b121-a419-498b-8d9d-07d5fa0fef88@z17g2000hsg.googlegroups.com>
References: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
     <479668e5$0$1251$470ef3ce@news.pa.net>
```

NNTP-Posting-Host: 71.179.5.247
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1201231861 15457 127.0.0.1 (25 Jan 2008 03:31:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 25 Jan 2008 03:31:01 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z17g2000hsg.googlegroups.com; posting-host=71.179.5.247;
    posting-account=mdUWtwkAAADoT_k61zBNbjGaOg_ho0GM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
    CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15169

Many members are correct. I have never done anything like this, and
there is considerable danger in what I am considering. Why would I
want to try such a foolish thing?

The nature of the experiment is to test the feasibility of beaming
power to a Thermoacoustic Engine. The ultimate goal is to power a
climber to compete in the elevator2010 contest where first prize is 1
million bucks. Now I don't expect to power a 100 pound climber with
one 1000 watt magnetron. The oven magnetron was only to test the
concept. For the real thing one would need a Burle S95608E100

Elevator2010: http://www.spaceward.org/elevator2010-pb.html
Burle 100K Magnetron: http://www.burle.com/cgi-bin/byteserver.pl/pdf/s94608E=
100.pdf
Thermoacoustic Engine: http://www.io.com/%7Efrg/tac.htm

Cheers,
Bert

On Jan 22, 5:06=A0pm, hex...@blazenet.net (gudmundur) wrote:
> In article <9d1040ff-8a30-4443-8bc7-dc5991daf...@v67g2000hse.googlegroups.=
com>,
> hcm1...@gmail.com says...
>
>
>
> >Does anyone in the group know anything about magnetrons? I planning to
> >do some experiments in transmitting microwaves.
>
> >I would like to use standard magnetrons from a microwave oven and
> >believe I can beam further if operated at the same frequency and
> >with the outputs in phase. I have no idea on how to do this. Please
> >advise
>
> >Cheers,
> >Bert
>
> =A0Kind of a strange side note to the syncing issue,

> There are commercial microwave ovens that use 2 magnetrons.
> These ovens are usually in food courts of large business
> offices or factories. They are 220vac powered of course.
> Since a single mag oven produces power only on a small
> portion of one half of an a.c. line cycle they did a neat
> trick in the twin mag ovens and switched the line connections
> to one power transformer. (the ovens have two complete and
> separate h.v. supplies) So one mag makes power on the positive
> half of the line cycle and the other makes power on the
> negative half of the line cycle. Strangely enough I have
> run into several units having the same 'in phase' line
> connection (by accident or tampering I guess) and they
> still work fine. Both mags tightly coupled to the cavity
> producing power at the same time on the same half of the
> line cycle. Talk about injection locking!!! 2 mags looking
> right at each other, and I have not found their service
> life to be any shorter but they take longer to pop popcorn.
> Probably several reasons for that, but a differance you can
> see and measure with a watch. Just by switching the primary
> transformer leads back to the 'normal' out of phase condition
> popcorn gets done faster.

```
From 3355761837829380851
X-Google-Thread: fc2a5,5e57ebd85cdfee25
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
p69g2000hsa.googlegroups.com!not-for-mail
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Good reading on radio modifications/building
Date: Fri, 25 Jan 2008 11:30:50 -0800 (PST)
Organization: http://groups.google.com
Lines: 16
Message-ID: <1aedbaee-c58a-4dee-b709-9d33b50230a3@p69g2000hsa.googlegroups.com>
References: <3ab8579a-b03a-4234-8552-52ac8a990f86@l32g2000hse.googlegroups.com>
NNTP-Posting-Host: 72.0.177.83
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1201289450 8170 127.0.0.1 (25 Jan 2008 19:30:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 25 Jan 2008 19:30:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p69g2000hsa.googlegroups.com; posting-host=72.0.177.83;
     posting-account=LQVNZAkAAAAHQ9vQRrCB-Qc9fLbREhw4
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15170
```

On Jan 23, 8:10 pm, jbland...@gmail.com wrote:
> I'm curious about how I might modify say my Aviation Radio (my hand
> held spare I keep in case of lost electric in an aircraft). To pick up
> amateur bands as well as the Aviation bands.
>
> I'm not interested in the slightest as to whether or not this is
> legal, I'm simply looking for educational purposes.
> I wanted to get one and then I became curious ... as to how difficult
> it would be or how it would be done, what kind of reading I would do
> if I wanted to build/modify any radio etc.

The quick way is to build a converter to translate the 144-148 MHz signals to the aircraft band.

Paul, KD7HB

```
From -6619148773828704077
X-Google-Thread: fc2a5,29487151fda5af04,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!wn13feed!
worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FAl ATWATJER-KENT MOD #32 + STUFF
Lines: 14
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <xksmj.166420$MJ6.160759@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: 8699bda899fbacfe35d896efde13b202
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1201295773
8699bda899fbacfe35d896efde13b202 (Fri, 25 Jan 2008 21:16:13 GMT)
NNTP-Posting-Date: Fri, 25 Jan 2008 21:16:13 GMT
Organization: AT&T Worldnet
Date: Fri, 25 Jan 2008 21:16:13 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15171
```

A very nice AK #32 less tubes + Collins, Military TM's, Halli manuals can be see at:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

I have additional antique radios (about 20 or so) that need new homes as a possible move

is in the very near future. Larger units will require something like UPS Store to do packing and shipping. Stop by and take a look. Heytubeguy

From -6671953801632646223
X-Google-Thread: fc2a5,5e57ebd85cdfee25
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out03b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx01.iad01.newshosting.com!newshosting.com!198.186.194.247.MISMATCH!news-
out.readnews.com!news-xxxfer.readnews.com!news-feed01.roc.ny.frontiernet.net!
nntp.frontiernet.net!news01.roc.ny.POSTED!62310b36!not-for-mail
From: Bill Janssen <billj@ieee.org>
Reply-To: billjNOT_THIS@ieee.org
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Good reading on radio modifications/building
References: <3ab8579a-b03a-4234-8552-52ac8a990f86@l32g2000hse.googlegroups.com>
<1aedbaee-c58a-4dee-b709-9d33b50230a3@p69g2000hsa.googlegroups.com>
In-Reply-To: <1aedbaee-c58a-4dee-b709-9d33b50230a3@p69g2000hsa.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 25
Message-ID: <Cjvmj.2883$7d1.1542@news01.roc.ny>
X-Complaints-To: abuse-news@frontiernet.net
X-Trace:
52616e646f6d4956f9d2364c65fcb534f25117f216508d88ef3487323e2248098a868faca8e7e63977
b515e4d425951af273df495748bb58fd23ffd2243dfd4fbf0b465d5172194a1d0134ed08cc3f99f16e
731f1dd51f9189e667c8f34f7b799a3cf84b091b368d6bb936098c5f85aa6d5b1f3a3d7ad5f68d300d
41bc45ed86
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Sat, 26 Jan 2008 00:40:02 UTC
Date: Sat, 26 Jan 2008 00:40:02 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15172

pdrahn@coinet.com wrote:
> On Jan 23, 8:10 pm, jbland...@gmail.com wrote:
>
>> I'm curious about how I might modify say my Aviation Radio (my hand
>> held spare I keep in case of lost electric in an aircraft). To pick up
>> amateur bands as well as the Aviation bands.
>>
>> I'm not interested in the slightest as to whether or not this is
>> legal, I'm simply looking for educational purposes.
>> I wanted to get one and then I became curious ... as to how difficult
>> it would be or how it would be done, what kind of reading I would do
>> if I wanted to build/modify any radio etc.
>>

>
> The quick way is to build a converter to translate the 144-148 MHz
> signals to the aircraft band.
>
> Paul, KD7HB
>
>

You will find that most hams use FM and some hams use SSB and very few
hams use AM.
Your aircraft radio is AM.

Bill K7NOM

From 3068349920523068051
X-Google-Thread: fc2a5,97a2d4f1eb574bc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!sn-xt-sjc-05!sn-xt-sjc-08!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Syncing Up Multiple Magnetrons
Date: Sat, 26 Jan 2008 10:22:09 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13pmnh784d8gede@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
In-Reply-To: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 41
Xref: g2news1.google.com rec.radio.amateur.homebrew:15173

Bert wrote:
> Does anyone in the group know anything about magnetrons? I planning to
> do some experiments in transmitting microwaves.
>
> I would like to use standard magnetrons from a microwave oven and
> believe I can beam further if operated at the same frequency and
> with the outputs in phase. I have no idea on how to do this. Please
> advise

There seems to be quite a lot of material on the web for this topic
and I suspect some practical solutions. Also while perusing Usenet
archives on another topic I found this list from a french newsgroup
which may be useful if the links haven't succumbed to bit rot
(haven't checked them):

MAGNETRON
Beamed Microwave Power Transmission and its Application to Space - http://engineer.tamu.edu/tees/csp/wireless/70dec5.htm
Book 11 - http://www.tpub.com/neets/book11/index.htm
Communications & Power Industries, Beverly, MA - http://www.cpii.com/bmd/magoper1.htm
EA6VQ - Phase locking a microwave oven for EME use - http://www.qsl.net/ea6vq/oven.html
High Power Converter of Microwaves into DC - http://jre.cplire.ru/iso/sep99/1/text.html
How To Test The Magnetron Tube - http://www.gallawa.com/microtech/mag_test.html
Ingolf's Web Presence Links across the net - http://www.ee.sun.ac.za/ehg/imeier/links.html
MILAX Fuel-free Flight Experiment - http://www.kurasc.kyoto-u.ac.jp/plasma-group/sps/milax-e.html
Publication IAF 97 - http://www.univ-reunion.fr/~lcks/PubIAF97.htm
Sps Emission - http://helios.univ-reunion.fr/~lcks/spsemiss.htm
W.C. Brown Biodata Page - http://engineer.tamu.edu/tees/csp/wireless/brownbio.htm
Welcome to The Center for Space Power at Texas A&M University - http://engineer.tamu.edu/tees/csp/

Regards,

Michael

```
From -3200977439445221803
X-Google-Thread: fc2a5,97a2d4f1eb574bc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s8g2000prg.googlegroups.com!not-for-mail
From: Bert <hcm1955@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Syncing Up Multiple Magnetrons
Date: Sat, 26 Jan 2008 15:50:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 44
Message-ID: <6c1eb77b-10cc-49a2-9637-d60a207be230@s8g2000prg.googlegroups.com>
References: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
     <13pmnh784d8gede@corp.supernews.com>
NNTP-Posting-Host: 71.179.5.247
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1201391428 27515 127.0.0.1 (26 Jan 2008 23:50:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 26 Jan 2008 23:50:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s8g2000prg.googlegroups.com; posting-host=71.179.5.247;
     posting-account=mdUWtwkAAADoT_k61zBNbjGaOg_ho0GM
```

User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15174

Michael,

Thank you very much for the info and links.

I am forming up a team to compete this year. If we don't compete this year we will enter next year. So far I have 3 people from work (Lockheed Martin) including myself,one from IEEE, and a person that has competed in previous elevator2010 contests(http://www.spaceward.org/elevator2010.html). If you know of anyone who is interested in joining our team (Especially if they know how to design High Power RF/Microwave Antennas, Dishes, and Horns) please shoot me an email at: hcm1955@gmail.com

Thanks,
Bert

>
> There seems to be quite a lot of material on the web for this topic
> and I suspect some practical solutions. Also while perusing Usenet
> archives on another topic I found this list from a french newsgroup
> which may be useful if the links haven't succumbed to bit rot
> (haven't checked them):
>
> MAGNETRON
> Beamed Microwave Power Transmission and its Application to Space -http://engineer.tamu.edu/tees/csp/wireless/70dec5.htm
> Book 11 -http://www.tpub.com/neets/book11/index.htm
> Communications & Power Industries, Beverly, MA -http://www.cpii.com/bmd/magoper1.htm
> EA6VQ - Phase locking a microwave oven for EME use -http://www.qsl.net/ea6vq/oven.html
> High Power Converter of Microwaves into DC -http://jre.cplire.ru/iso/sep99/1/text.html
> How To Test The Magnetron Tube -http://www.gallawa.com/microtech/mag_test.html
> Ingolf's Web Presence Links across the net -http://www.ee.sun.ac.za/ehg/imeier/links.html
> MILAX Fuel-free Flight Experiment -http://www.kurasc.kyoto-
> u.ac.jp/plasma-group/sps/milax-e.html
> Publication IAF 97 -http://www.univ-reunion.fr/~lcks/PubIAF97.htm
> Sps Emission -http://helios.univ-reunion.fr/~lcks/spsemiss.htm
> W.C. Brown Biodata Page -http://engineer.tamu.edu/tees/csp/wireless/brownbio.htm
> Welcome to The Center for Space Power at Texas A&M University -http://engineer.tamu.edu/tees/csp/
>
> Regards,
>

> Michael

```
From -3690909207934311137
X-Google-Thread: fc2a5,35e70fc20d26d1ec,start
X-Google-Thread: fc8b1,35e70fc20d26d1ec,start
X-Google-Thread: 113975,35e70fc20d26d1ec,start
X-Google-Thread: 111d0a,35e70fc20d26d1ec,start
X-Google-Attributes: gidfc2a5,gidfc8b1,gid113975,gid111d0a,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l32g2000hse.googlegroups.com!not-for-mail
From: "bill.meara@gmail.com" <bill.meara@gmail.com>
Newsgroups: rec.radio.amateur.homebrew, rec.radio.amateur.boatanchors,
     sci.astro.amateur, sci.electronics.basics
Subject: SolderSmoke 75  A Podcast About Electronics and Radio
Date: Sun, 27 Jan 2008 05:28:57 -0800 (PST)
Organization: http://groups.google.com
Lines: 71
Message-ID: <631fabb9-c0b5-4411-b995-3e56fbf8e4ac@l32g2000hse.googlegroups.com>
NNTP-Posting-Host: 81.208.83.208
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1201440537 24629 127.0.0.1 (27 Jan 2008 13:28:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 27 Jan 2008 13:28:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l32g2000hse.googlegroups.com; posting-host=81.208.83.208;
     posting-account=ePxsiwkAAACeKyenV1cL73nSaGPyDy3Q
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15175
rec.radio.amateur.boatanchors:13866 sci.astro.amateur:100252
sci.electronics.basics:68233
```

SolderSmoke!
A SHOW FOR ELECTRONICS HOMEBREWERS!

http://www.soldersmoke.com

Listen at: http://www.soldersmoke.com

SolderSmoke #75
January 27, 2008
"A Nonlinear History of Radio."
Fessenden's mic.
Clustr Map.
BANDSWEEP: Lunar Echoes at 6.7 MHz.
Winter SPRAT.
HALO Balloon.

AO-16 Satellite goes DSB.
Calling CQ on Chinese repeaters.

MAILBAG: AA1TJ setting up Tunnel Diode beacon.
Kevin, M0KHZ builds in an 18th Century Shack.
Steve, G0FUW, listens from Ascension Island.
Lars, OZ1CX, has THE KNACK.
WA7MLH Builds a Superhet on YouTube.
Waza, VK2HDH, calls in on Echolink.

PART III: Andy, ZS6ADY, on Boatanchors in South Africa.

A SPECIAL ENDING: A 1979 song by Mike, KL7R.

Tired of listening to Blondie or the CHU on your I-Pod?   Wouldn't you like to be able to carry with you the kinds of ham radio conversations that you listen to while in your radio shack? Tune in to SolderSmoke!

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http://www.soldersmoke.com/soldersmoke.rss

If you don't have an MP3 player you can just go to the site below and listen to the latest program (and earlier editions) using the audio software on your computer.

http://www.soldersmoke.com

All the programs are available here.

I hope you enjoy the program. Please send us feedback.

73 from Rome
Bill M0HBR N2CQR CU2JL
http://www.gadgeteer.us

```
From 3384916991630776347
X-Google-Thread: fc2a5,5e57ebd85cdfee25
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe18.lga.POSTED!53ab2750!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <3ab8579a-b03a-4234-8552-52ac8a990f86@l32g2000hse.googlegroups.com>
Subject: Re: Good reading on radio modifications/building
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <mh1nj.39318$m6.31399@newsfe18.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe18.lga 1201447122 72.209.25.33 (Sun, 27 Jan 2008 08:18:42 MST)
NNTP-Posting-Date: Sun, 27 Jan 2008 08:18:42 MST
Organization: Cox
Date: Sun, 27 Jan 2008 10:18:39 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:15176


<jblandrum@gmail.com> wrote in message
news:3ab8579a-b03a-4234-8552-52ac8a990f86@l32g2000hse.googlegroups.com...
> I'm curious about how I might modify say my Aviation Radio (my hand
> held spare I keep in case of lost electric in an aircraft). To pick up
> amateur bands as well as the Aviation bands.
>

You'd be far better off looking at the wideband pocket scanners that are
now on the market. These cover from the broadcast band up into the
UHF regions and are multimode as well.





From -4972992249816840404
X-Google-Thread: fc2a5,83435d0a2786c9d9,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: "Richard" <nearlynews_email@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
```

Subject: 144mhz Front-End with output at 10.7MHz
Date: Sun, 27 Jan 2008 19:14:06 -0000
Lines: 7
Message-ID: <6043g0F1p9qiiU1@mid.individual.net>
Mime-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Trace: individual.net JZGWo0Srv0bM0/X/nIDzmwcMve1fxNHN6AnT3UMf+2kDIxYF3+
Cancel-Lock: sha1:+P/wzTceDAPt+2WA51q+vIVyXys=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Xref: g2news1.google.com rec.radio.amateur.homebrew:15177

Anyone know of a 144Mhz front-end circuit with the output at 10.7Mhz?

Or a good 144Mhz front-end circuit that can be altered to output at 10.7Mhz?

I've got a complete homebrew RX, (PMR parts) but I do wonder if I could do to change the front-end from xtal control to a tuneable front-end.

From -1555560613105820376
X-Google-Thread: fc2a5,42762f03fde45495,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Holger Doerschel <newsgroups@pt100.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Power Supply for EB104
Date: Sun, 27 Jan 2008 20:23:47 +0100
Lines: 38
Message-ID: <604423F1oupe4U1@mid.individual.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net u7ntvjhK45MfLYc3k4dYwAPG17BQ0CWNkaj8xSb7n0TZTWL0Yi
Cancel-Lock: sha1:n+gPVfSEn3opErjGwuvQvWv8/4Y=
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:15178

Hello,

I build this (http://oh8jep.kotinet.com/eb104/pw_eb104.gif) power supply for the EB104-amplifier. Unfortunately I can't get BUX22 and so I used BUX98A.

The transformer-output is a little bit lower, so the DC is 62V. But the supply works and I get 50V output. So far so good.

My eb104 is still not assembled, so I tested the supply with two Osram halogen lamps HLX64655 250W and 24V in series connexion.

When the lamps are connected and the transformer is connected to the mains supply sometimes the lamps will light. The current ist ca. 11 ampere. But the current behind the rectifier is 21A!!! But the output voltage is still 50V.

Often the lamps will not light an the voltage drops down to zero.

If I try four lamps, a series of two parallel lamps, they never light.

When the lamps are not connected and I connect the power supply to the mains supply and after that I connect the lamps the voltage drops always down to zero.

So you see, a lot of problems.

Any hints?

Vy 73 Holger/ DL9HDA

From -5305553702474210816
X-Google-Thread: fc2a5,86528631f0b2e452
X-Google-Thread: fc8b1,86528631f0b2e452
X-Google-Thread: f4535,86528631f0b2e452
X-Google-Thread: 108122,86528631f0b2e452
X-Google-Thread: 107ada,86528631f0b2e452
X-Google-Attributes: gidfc2a5,gidfc8b1,gidf4535,gid108122,gid107ada,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!news.newsgroup-binaries.com!not-for-mail
From: "Ron H" <rnharsh@nospam.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.audio.tubes,rec.radio.amateur.equipment,rec.radio.amateur.misc
References: <44a74c69-c119-40cf-9ca0-e4103e71187f@q39g2000hsf.googlegroups.com>
Subject: Re: RCA Receiving Tube Manual download links
Date: Sun, 27 Jan 2008 13:53:13 -0600
X-Priority: 3

```
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 14
Message-ID: <479cdf3a$0$24816$8d2e0cab@news.newsgroup-binaries.com>
Organization: newsgroup-binaries.com
X-Complaints-To: abuse@newsgroup-binaries.com
X-Original-Lines: 11
Xref: g2news1.google.com rec.radio.amateur.homebrew:15179
rec.radio.amateur.boatanchors:13867 rec.audio.tubes:49747
rec.radio.amateur.equipment:13896 rec.radio.amateur.misc:43174
```

So who gets the money?

--

Ron H
--
This outgoing email was scanned by
Norton Antivirus Corp. Edition
and found to be virus free!

----
www.Newsgroup-Binaries.com - *Completion*Retention*Speed*
Access your favorite newsgroups from home or on the road

```
From -7933101558570397111
X-Google-Thread: fc2a5,42762f03fde45495
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!wns14feed!
worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <604423F1oupe4U1@mid.individual.net>
Subject: Re: Power Supply for EB104
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <ls5nj.4224$9j6.3593@attbi_s22>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1201464209 12.219.135.201 (Sun, 27 Jan 2008 20:03:29 GMT)
NNTP-Posting-Date: Sun, 27 Jan 2008 20:03:29 GMT
Organization: AT&T ASP.att.net
Date: Sun, 27 Jan 2008 20:03:29 GMT
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:15180

> So you see, a lot of problems.
>
> Any hints?
>
>
> Vy 73 Holger/ DL9HDA
>
>
> Absolutely Holger. Use something besides light bulbs for a load. They
> probably want 500 Amperes when they're cold.

W4ZCB
>
>
>
>

From 5183293201334167748
X-Google-Thread: fc2a5,42762f03fde45495
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Holger Doerschel <newsgroups@pt100.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power Supply for EB104
Date: Sun, 27 Jan 2008 21:15:08 +0100
Lines: 11
Message-ID: <60472cF1pfcv6U1@mid.individual.net>
References: <604423F1oupe4U1@mid.individual.net> <ls5nj.4224$9j6.3593@attbi_s22>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net /UQKp1koBcIgdzB8DMPg4QIdadF9S+oLo419To4rAQazYsLHtJ
Cancel-Lock: sha1:LxCVgPqUZ7Y/1LSS99tGCtmfkXU=
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:15181

Harold E. Johnson wrote:

>> Absolutely Holger. Use something besides light bulbs for a load. They
>> probably want 500 Amperes when they're cold.
> W4ZCB

Hello Harold, I hadn't previously considered this. My mistake. So I'll try
to find some suitable resistors ...

Holger / DL9HDA

From -328333352289800137
X-Google-Thread: fc2a5,74ad0f14d5023792,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: "Richard" <nearlynews_email@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Are switch-mode powers supplies suitable for receivers?
Date: Mon, 28 Jan 2008 11:27:20 -0000
Lines: 6
Message-ID: <605sh6F1ppo43U1@mid.individual.net>
Mime-Version: 1.0
Content-Type: text/plain;
format=flowed;
charset="iso-8859-1";
reply-type=original
Content-Transfer-Encoding: 7bit
X-Trace: individual.net 4JniEAclxEWWpyroO+pUDQmBfNmWnPgi+xIlaD5/TxQ8/qjXTg
Cancel-Lock: sha1:PwGDK5BXrId/TtOvxdleYqamRjo=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Xref: g2news1.google.com rec.radio.amateur.homebrew:15182

I have an ex AM PMR radio that I wish to use on 144Mhz. I need a PSU feeding 24V @ about 300mA.

Are switch-mode powers supplies alright or are they too noisy to be used for receivers? TIA.

From 3602286739624345105
X-Google-Thread: fc2a5,74ad0f14d5023792
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.litech.org!not-for-mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Are switch-mode powers supplies suitable for receivers?
Date: Mon, 28 Jan 2008 15:41:02 +0000 (UTC)
Organization: Me?
Lines: 33
Sender: mikea@mikea.ath.cx
Message-ID: <fnkt2e$m53$5@puck.litech.org>
References: <605sh6F1ppo43U1@mid.individual.net>

NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1201534862 22691 70.164.65.62 (28 Jan 2008 15:41:02 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Mon, 28 Jan 2008 15:41:02 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news1.google.com rec.radio.amateur.homebrew:15183

On Mon, 28 Jan 2008 11:27:20 -0000,
Richard <nearlynews_email@ntlworld.com> wrote in
<605sh6F1ppo43U1@mid.individual.net>:

> I have an ex AM PMR radio that I wish to use on 144Mhz. I need a PSU feeding
> 24V @ about 300mA.

> Are switch-mode powers supplies alright or are they too noisy to be used for
> receivers? TIA.

Some switchers are very good, some aren't very good at all. One friend
has the Icom PS-120 (I think) for his Icom transceiver, and finds it
to be so noisy as to be unusable .Other friends have other switchers
and find them to be OK, and a third group find them somewhat noisy,
but tolerable if you don't mind tuning around the birdies.

I use a Samlex 30-Amp switcher to drive my Yaesu FT-897D in the shack,
and it's just fine above 500 KHz or so. It *does* put out some hash in
the 20-500 KHz region; my SDR-IQ receiver's waterfall display shows it
quite plainly.

You may find a linear-mode supply (xfmr; half-wave, full-wave, or
bridge rectifier; filter) to be better for your use; I don't know of
a lot of 24V switchers. Certainly a linear supply will be quieter if
done well, as the only noise will be from ripple that gets through the
filters, and the tiny bit of hash from the rectifier junctions turning
on and off.

--
I had the largest, strongest tornado ever recorded march by just four
miles away in May of '99, I could feel the house breathing from the
subsonic pressure wave. It's a Live Thing, like Fire.
-- Charly the Bastard, in rec.org.sca

From -5926450217032960684
X-Google-Thread: fc2a5,74ad0f14d5023792
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Are switch-mode powers supplies suitable for receivers?
Date: 28 Jan 2008 15:50:33 GMT
Lines: 42
Message-ID: <slrnfprue8.2kam.bit-bucket@shell.config.com>
References: <605sh6F1ppo43U1@mid.individual.net>
Reply-To: If you must, <Reply_to@my.sig.adr>
X-Trace: individual.net 528a3owLosVNemLTu46eDw4MlNB14zXf95fmzvSJxHxx9xxLAU
Cancel-Lock: sha1:FIiEw5F7ZGnbUS5H6DdMo0GHjHc=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15184

On Mon, 28 Jan 2008 11:27:20 -0000, Richard wrote:
> I have an ex AM PMR radio that I wish to use on 144Mhz. I need a PSU
> feeding 24V @ about 300mA.

You are almost talking about a wall-wart there, aren't you?
Or, possibly, a desktop 'brick' PS.

> Are switch-mode powers supplies alright or are they too noisy to be
> used for receivers? TIA.

Just make sure the PS is enclosed. And, use ferrite beads/doughnuts on _all_ input\output wiring. And, it wouldn't hurt to put .001 uF bypass capacitors on that wiring, too, betwix the ferrites and the PS.

My venerable IC-551's (6M) internal power supply went kah-kah and I replaced it with a switched-mode PS from Marlin P Jones:

http://www.mpja.com/

That was some time ago, but what I bought was similar to:

http://www.mpja.com/prodinfo.asp?number=16001+PS

My original requirement was _size_. I wanted to stuff the new PS into the same cavity in the IC-551 where the old PS came out. So, having installed the new switched-mode PS _inside_ the rig -- with all the install 'details' I listed above -- I saw no appreciable rise in the no-antenna-connected noise floor.

Plus I could 'tweak' the output voltage -- setting it at 13V -- and "amp up" that IC-551 to a blistering 11W or so. HI!HI!

I encouraged a feller in Kansas to do likewise with his IC-251 (2M) that had a dead PS, and he reported similar success.

Of course, YMMV
gl es 73
Jonesy
--
```
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    *** Killfiling google posts: <http://jonz.net/ng.htm>
```

```
From 2545011979084772244
X-Google-Thread: fc2a5,74ad0f14d5023792
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-
sjc-01!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: John Ferrell <johnferrell@sprintmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Are switch-mode powers supplies suitable for receivers?
Date: Mon, 28 Jan 2008 11:54:32 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <p32sp390uqa7a92j0dks56jbe83fnbccns@4ax.com>
References: <605sh6F1ppo43U1@mid.individual.net>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 13
Xref: g2news1.google.com rec.radio.amateur.homebrew:15185

On Mon, 28 Jan 2008 11:27:20 -0000, "Richard"
<nearlynews_email@ntlworld.com> wrote:

>I have an ex AM PMR radio that I wish to use on 144Mhz. I need a PSU feeding
>24V @ about 300mA.
>
>Are switch-mode powers supplies alright or are they too noisy to be used for
>receivers? TIA.
Some are, some are not. You have a lot of choices available at 300ma.

John Ferrell W8CCW
"Life is easier if you learn to
plow around the stumps"


From -8120161125397694587
X-Google-Thread: fc2a5,c9a5bbed2386c4fd,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-03!sn-xt-sjc-09!sn-post-sjc-02!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Larry Gagnon" <lggagnon@fakeuniserve.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Intermittent raspy signals on ICOM 735 ?
Date: Mon, 28 Jan 2008 09:15:24 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <op.t5ngvy2paiss39@localhost>
Content-Type: text/plain; format=flowed; delsp=yes; charset=iso-8859-1
MIME-Version: 1.0
```

```
Content-Transfer-Encoding: 7bit
User-Agent: Opera Mail/9.50 (Linux)
X-Complaints-To: abuse@supernews.com
Lines: 14
Xref: g2news1.google.com rec.radio.amateur.homebrew:15186
```

I have a problem with my ICOM 735 transceiver. It has done me well for 23 years now, but just recently I have noticed raspy CW and SSB signals on receive, on an intermittent basis. This problem comes and goes, often in long intervals and does not seem to be affected by temperature. It sounds simply like an unclean signal with a raspy note on top of it. I am so far unable to determine if this affects my transmit signal or not, I did get a poor report once during this condition, but during another transmission at another time I did not. I have the complete service manual for this rig, but am a bit unsure where to start.

Any ideas appreciated.

Larry VE7EA

```
From -1510498013087396196
X-Google-Thread: fc2a5,c9a5bbed2386c4fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!inka.de!rz.uni-
karlsruhe.de!feed.news.schlund.de!schlund.de!news.online.de!dl8fbh.ampr.org!not-
for-mail
From: <dl8fbh@dl8fbh.ampr.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Intermittent raspy signals on ICOM 735 ?
Date: Mon, 28 Jan 2008 19:32:17 +0100 (CET)
Organization: private site
Lines: 20
Distribution: world
Message-ID: <fnl73h$uml$1@dl8fbh.ampr.org>
References: <op.t5ngvy2paiss39@localhost>
NNTP-Posting-Host: p54b2a41a.dip0.t-ipconnect.de
X-Trace: online.de 1201546810 5087 84.178.164.26 (28 Jan 2008 19:00:10 GMT)
X-Complaints-To: abuse@einsundeins.com
NNTP-Posting-Date: Mon, 28 Jan 2008 19:00:10 +0000 (UTC)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15187
```

Larry Gagnon <lggagnon@fakeuniserve.com> wrote:

> I have a problem with my ICOM 735 transceiver. It has done me well for 23
> years now, but just recently I have noticed raspy CW and SSB signals on
> receive, on an intermittent basis. This problem comes and goes, often in
> long intervals and does not seem to be affected by temperature. It sounds
> simply like an unclean signal with a raspy note on top of it. I am so far
> unable to determine if this affects my transmit signal or not, I did get a

> poor report once during this condition, but during another transmission at
> another time I did not. I have the complete service manual for this rig,
> but am a bit unsure where to start.
>
> Any ideas appreciated.

Probably you have to replace plastic trimmer capacitors C37, C45, C52, C59 and C138.
Go to www.icomamerica.com/en/support/default.aspx

Mike

From -7494495389165155566
X-Google-Thread: fc2a5,42762f03fde45495
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Power Supply for EB104
From: Michael <michael78759@yahoo.com>
Organization: Your Company
Message-ID: <Xns9A33C18AB66A9mpendley2austinrrcom@66.250.146.128>
User-Agent: Xnews/5.04.25
Date: 29 Jan 2008 01:02:45 GMT
Lines: 7
NNTP-Posting-Host: 66.68.33.170
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15188

>

Most Lamps have a starting current (cold filament) of 7 to 10 times the running (hot filament) current. You need to use resistors to test the power supply.

Michael

From 2862589442226110139
X-Google-Thread: fc2a5,74ad0f14d5023792
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!c4g2000hsg.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Are switch-mode powers supplies suitable for receivers?
Date: Mon, 28 Jan 2008 18:04:25 -0800 (PST)

Organization: http://groups.google.com
Lines: 18
Message-ID: <bb4e67c2-e6d2-4a53-8d13-6349413d0e9b@c4g2000hsg.googlegroups.com>
References: <605sh6F1ppo43U1@mid.individual.net>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1201572266 20493 127.0.0.1 (29 Jan 2008 02:04:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 29 Jan 2008 02:04:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c4g2000hsg.googlegroups.com; posting-host=192.25.142.225;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15189

On Jan 28, 3:27 am, "Richard" <nearlynews_em...@ntlworld.com> wrote:
> I have an ex AM PMR radio that I wish to use on 144Mhz. I need a PSU feeding
> 24V @ about 300mA.
>
> Are switch-mode powers supplies alright or are they too noisy to be used for
> receivers? TIA.

The receiver I'm building uses switchers internally to take 5V down to various other voltages. Total power supplied by the switchers is around 20 watts. They're little open modules. I can "see" the fundamentals (200kHz-700kHz range for these supplies) and the first few harmonics if I go looking for them, but they're certainly not an issue at 144MHz. With enough shielding and bypassing (done right), I suppose any switcher would be clean enough. With a switcher of good design, you won't even need any additional shielding or bypassing.

Cheers,
Tom

From -1034025727545673683
X-Google-Thread: fc2a5,c9a5bbed2386c4fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!sn-xt-sjc-04!sn-xt-sjc-07!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Larry Gagnon" <lggagnon@fakeuniserve.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Intermittent raspy signals on ICOM 735 ?
Date: Mon, 28 Jan 2008 22:55:31 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <op.t5oiutvkaiss39@localhost>
Content-Type: text/plain; format=flowed; delsp=yes; charset=iso-8859-1
MIME-Version: 1.0

References: <op.t5ngvy2paiss39@localhost> <fnl73h$uml$1@dl8fbh.ampr.org>
Distribution: world
Content-Transfer-Encoding: 7bit
User-Agent: Opera Mail/9.50 (Linux)
X-Complaints-To: abuse@supernews.com
Lines: 13
Xref: g2news1.google.com rec.radio.amateur.homebrew:15190

On Mon, 28 Jan 2008 10:32:17 -0800, <dl8fbh@dl8fbh.ampr.org> wrote:

> Probably you have to replace plastic trimmer capacitors C37, C45, C52,
> C59 and C138.
> Go to www.icomamerica.com/en/support/default.aspx
>
>
> Mike
>

Thanks Mike!!

From 6349661549050529287
X-Google-Thread: fc2a5,af399a2c02f4f06a,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.litech.org!not-for-mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Mercer Electronics Tuning and Level Indicators, &c.
Date: Tue, 29 Jan 2008 16:25:21 +0000 (UTC)
Organization: Me?
Lines: 30
Sender: mikea@mikea.ath.cx
Message-ID: <fnnk1h$cg2$1@puck.litech.org>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1201623921 12802 70.164.65.62 (29 Jan 2008 16:25:21 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Tue, 29 Jan 2008 16:25:21 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news1.google.com rec.radio.amateur.homebrew:15191

I came into a large hatful of indicators made by Mercer Electronics, a division of Simpson Electric.

These are small (under 2" overall width, mount in a 1.425 x 0.8 " rectangular hole, and have a meter-style movement driving a cylinder mounted with axis parallel to the front of the device, rather like a roll of paper towels. Current drives the cylinder, and a DayGlo red-orange flag printed on the cylinder changes position. I have three varieties:

Zero Indicator   Cat. # 11338 model 510, 50-0-50 microamps, zero center
The cylinder has two opposing solid-color arrowheads, which are in the center of the viewing area when no current is applied.

Tuning Meter Cat # 11220 model 510, 0-100 microamps
The cylinder has a single triangular colored area, such that increasing current increases the red area displayed through the window (leading edge of the triangle moves to the right, like the speedometer in our old Pontiac).

Another variety not with me here at work, with 20-10-0 marks along the top edge of the viewing area and 0-10-20 marks along the bottom edge/ It appeared to be zero-center, and used for tuning or something.

Anyone know anything about these?

--
A computer scientist is someone who, when told to "Go to hell," sees the
"go to," rather than the destination, as harmful.
-- Dr. Roger M. Firestone

From -7593040563857447296
X-Google-Thread: fc2a5,74ad0f14d5023792
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 30 Jan 2008 06:55:22 -0600
From: "jack" <jdwalton@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <605sh6F1ppo43U1@mid.individual.net>
Subject: Re: Are switch-mode powers supplies suitable for receivers?
Date: Wed, 30 Jan 2008 07:57:54 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Message-ID: <ntqdnbNV7aMn7j3anZ2dnUVZ_tWtnZ2d@comcast.com>
Lines: 9
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.249.69.72
X-Trace: sv3-HiYUhUXB9FBYpBlEQY62VN8qKrXG/BGuO9pIykAGXMyMBScVBbVYOO8/
VK51YiFj60ZXtQds+tmWga1!
2EsjCsLxB+gV9LAD5nTVsEPyl05WRIGCLZOCOFODGanWh+NSpb3DvdABOFNFqB3PewFdY0Lhe1nQ!
O3KEzYWVavQkiW1UhOxkJQvk+O0A
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net

X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15192

You can tweak up the power on a 24VDC switcher to cover the headroom for a linear regulator following the switcher. This is an old technique - and still used. My preference would be an adjustable regulator with the adjust pin bypassed with 10uF. Linear Technologies has some regulator chips that out of the box have noise lower than garden variety LM317/337.

You may have to shield the supply --

From 6841481106339565574
X-Google-Thread: fc2a5,74ad0f14d5023792
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s12g2000prg.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Are switch-mode powers supplies suitable for receivers?
Date: Wed, 30 Jan 2008 10:13:08 -0800 (PST)
Organization: http://groups.google.com
Lines: 24
Message-ID: <2040d0cd-bd5a-4a0f-9e84-843ec9657e83@s12g2000prg.googlegroups.com>
References: <605sh6F1ppo43U1@mid.individual.net>
<p32sp390uqa7a92j0dks56jbe83fnbccns@4ax.com>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1201716789 13399 127.0.0.1 (30 Jan 2008 18:13:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 30 Jan 2008 18:13:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s12g2000prg.googlegroups.com; posting-host=204.108.8.5;
     posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15193

John Ferrell wrote:
> On Mon, 28 Jan 2008 11:27:20 -0000, "Richard"
> <nearlynews_email@ntlworld.com> wrote:
>

> >I have an ex AM PMR radio that I wish to use on 144Mhz. I need a PSU feeding
> >24V @ about 300mA.
> >
> >Are switch-mode powers supplies alright or are they too noisy to be used for
> >receivers? TIA.
> Some are, some are not. You have a lot of choices available at 300ma.
>
> John Ferrell W8CCW
> "Life is easier if you learn to
> plow around the stumps"

I tried one that created all kinds of interference. I was able to
solve the problem by installing caps in parallel with the rectifiers, .
005uF disc I think.

Jimmie

```
From 7391383391726492341
X-Google-Thread: fc2a5,23dd3efb0b27667
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.clear.net.nz!
news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 30 Jan 2008 16:40:28 -0600
Date: Thu, 31 Jan 2008 11:40:42 +1300
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6146 data
References: <4796a402$0$22578$4c368faf@roadrunner.com>
<XRxlj.311911$Fc.250450@attbi_s21>
In-Reply-To: <XRxlj.311911$Fc.250450@attbi_s21>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 080130-1, 30/01/2008), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-8-201.dsl.telstraclear.net
Message-ID: <47a0fcd9$1@clear.net.nz>
X-Original-Trace: 31 Jan 2008 11:40:25 +1300, 121-72-8-201.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-AuthenticatedUsername: news10531
X-Trace: sv3-pSZ71v4NZiF2mR2GQq2n+1rJ58MZN1nKg71T/i/jjaicsvfU11h6aIz1ZRd/
```

```
RIFUxlesoN0hR+4iRIM!AjLcQVc20aDV1TQzqeAsXgVTYIzXiree8oYfZyXMOEvx/7pSlgb78SxImg==
X-Complaints-To: abuse@clear.net.nz
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15194

Harold E. Johnson wrote:
> "Jimmie D" <GFENDER@carolina.rr.com> wrote in message
> news:4796a402$0$22578$4c368faf@roadrunner.com...
>
>>I am trying to build a class AB linear amp usig a 6146, plate voltage will
>>be about 600 volts. What's the peak drive voltage for this configuration.
>>
>>Jimmie
>
> About one Volt less than the DC bias on the grid.
>
> W4ZCB
>
>
>
Hi Jimmy.
Harold is just about right for class AB1. You can get a bit more out in
AB2 with a small grid current but I don't reccomend it. Remember to keep
your cathode leads short and well bypassed.
   The best way is to have a grid current meter and NOT to run the stage
into grid current.
  The 6146 especially the B type can be a bit unstable otherwise. I
found that my old Kenwood 820S doesn't like them in the final. The
original Japanese S2001's though apparently similar to the 6146B work
much better.
73's Cliff Wright ZL1BDA


From 1706709719955402554
X-Google-Thread: fc2a5,a3c072c064519ec9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q39g2000hsf.googlegroups.com!not-for-
mail
From: gradyw@elite.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3 tube am 75 meter mobile
Date: Wed, 30 Jan 2008 17:32:38 -0800 (PST)
Organization: http://groups.google.com
Lines: 28
Message-ID: <34bef58c-549c-4a01-920b-1dbad0f303fa@q39g2000hsf.googlegroups.com>
References: <%GT6j.8$yk6.7@newsfe02.lga>
NNTP-Posting-Host: 67.118.198.98
Mime-Version: 1.0
```

Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1201743158 28496 127.0.0.1 (31 Jan 2008 01:32:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 31 Jan 2008 01:32:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q39g2000hsf.googlegroups.com; posting-host=67.118.198.98;
     posting-account=MraO6woAAACfzVE4hWiRUyZkneel01kU
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15195

On Dec 9 2007, 7:15 am, "W7CXA" <w7...@arrl.net> wrote:
> I am looking for information on a 3 tube 75 meter am transmitter that was
> around about 1958. Two of the tubes were 6146, one for modulator and one
> for final. I cant remember what the oscillator was.
>
> J. Andy Thompson
> W7CXA
> Yakima, WA
> ay...@charter.net

Back in the 50's there was a very popular TWO tube mobile transmitter
used by several mobile operators on 3995... Developed by Bob Carter,
W6NTU who lived up on the side of Mt. Hamilton near San Jose... It
used a12AT7 driving a sweep tube... Several of the fellows in addition
to a variant of sweep tubes, used a 6146 and an occasional 2E26 in the
final as well depending on available plate voltage... Half of the
12AT7 was the Oscillator, the other half was modulator... Carter
Modulation transmitters were very popular due to their simplicity and
performance. When loaded a bit on the heavy side, the audio sounded
quite good... Go to:

http://www.geocities.com/ResearchTriangle/Lab/4513/carter.html

For a bit of History and a schematic of the transmitter... Remember
load that lil sucker fairly heavy with very little perceptible plate
dip for best audio results...

Good Luck de Grady K6IXA

From -4331014448153944267
X-Google-Thread: fc2a5,42762f03fde45495
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
i29g2000prf.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power Supply for EB104
Date: Thu, 31 Jan 2008 08:51:05 -0800 (PST)

Organization: http://groups.google.com
Lines: 43
Message-ID: <5ae81d63-eff1-4c44-8f24-aa327880535e@i29g2000prf.googlegroups.com>
References: <604423F1oupe4U1@mid.individual.net>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1201798266 16443 127.0.0.1 (31 Jan 2008 16:51:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 31 Jan 2008 16:51:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i29g2000prf.googlegroups.com; posting-host=204.108.8.5;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15196

Holger Doerschel wrote:
> Hello,
>
> I build this (http://oh8jep.kotinet.com/eb104/pw_eb104.gif) power supply for
> the EB104-amplifier. Unfortunately I can't get BUX22 and so I used BUX98A.
>
> The transformer-output is a little bit lower, so the DC is 62V. But the
> supply works and I get 50V output. So far so good.
>
> My eb104 is still not assembled, so I tested the supply with two Osram
> halogen lamps HLX64655 250W and 24V in series connexion.
>
> When the lamps are connected and the transformer is connected to the
> mains supply sometimes the lamps will light. The current ist ca. 11
> ampere. But the current behind the rectifier is 21A!!! But the output
> voltage is still 50V.
>
> Often the lamps will not light an the voltage drops down to zero.

Seems like i read somewhere the EB104 didnt work best at 50 volts, I
believe it was 41 volts, maybe lower.

Howard probably knows about this.

Jimmie
>
> If I try four lamps, a series of two parallel lamps, they never light.
>
> When the lamps are not connected and I connect the power supply to the
> mains supply and after that I connect the lamps the voltage drops always

> down to zero.
>
>
> So you see, a lot of problems.
>
> Any hints?
>
>
> Vy 73 Holger/ DL9HDA

```
From 6943585312149896224
X-Google-Thread: fc2a5,194c41cc02270a5d,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
Date: Sat, 02 Feb 2008 09:46:59 -0500
From: David Rowell <djrpublic@cfl.rr.com>
User-Agent: Thunderbird 1.5.0.14pre (X11/20071023)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: desoldering advice needed
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 1
Message-ID: <47a48266$0$6156$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 68.205.91.236
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15197
```

Would you nice folks point me to a good how-to on desoldering?

```
From -3190356467638225322
X-Google-Thread: fc2a5,194c41cc02270a5d
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!cycny01.gnilink.net!
hwmnpeer01.lga!news.highwinds-media.com!hw-filter.phx!newsfe13.phx.POSTED!
53ab2750!not-for-mail
From: "The Shadow" <Cranston@CobaltClub.com>
Newsgroups: rec.radio.amateur.homebrew
References: <47a48266$0$6156$4c368faf@roadrunner.com>
In-Reply-To: <47a48266$0$6156$4c368faf@roadrunner.com>
Subject: Re: desoldering advice needed
Lines: 22
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
```

reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6000.16480
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6000.16545
Message-ID: <0j0pj.92436$Rf5.25539@newsfe13.phx>
NNTP-Posting-Host: 72.197.13.209
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe13.phx 1201967420 72.197.13.209 (Sat, 02 Feb 2008 08:50:20 MST)
NNTP-Posting-Date: Sat, 02 Feb 2008 08:50:20 MST
Organization: Cox
Date: Sat, 2 Feb 2008 07:50:17 -0800
Xref: g2news1.google.com rec.radio.amateur.homebrew:15198

"David Rowell" <djrpublic@cfl.rr.com> wrote in message
news:47a48266$0$6156$4c368faf@roadrunner.com...
> Would you nice folks point me to a good how-to on desoldering?

Try these URL's

http://www.epemag.wimborne.co.uk/solderfaq.htm

http://www.qsl.net/iz7ath/web/02_brew/14_howto/04_rec/index.htm

I use these

The usual way is to use a desoldering pump or vacuum pump which works like a small spring-loaded bicycle pump, only in reverse!

An excellent alternative to a pump is to use desoldering braid, including the famous American "Soder-Wick" (sic) or Adcola "TISA-Wick" which are packaged in small dispenser reels.

Lamont

From 7114558857324411933
X-Google-Thread: fc2a5,194c41cc02270a5d
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!out01b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!hwmnpeer01.phx!news.highwinds-
media.com!hw-filter.phx!newsfe08.phx.POSTED!53ab2750!not-for-mail
From: "The Shadow" <Cranston@CobaltClub.com>
Newsgroups: rec.radio.amateur.homebrew
References: <47a48266$0$6156$4c368faf@roadrunner.com>
<0j0pj.92436$Rf5.25539@newsfe13.phx>
In-Reply-To: <0j0pj.92436$Rf5.25539@newsfe13.phx>

Subject: Re: desoldering advice needed
Lines: 35
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6000.16480
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6000.16545
Message-ID: <4U0pj.45352$Gr4.29806@newsfe08.phx>
NNTP-Posting-Host: 72.197.13.209
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe08.phx 1201969792 72.197.13.209 (Sat, 02 Feb 2008 09:29:52 MST)
NNTP-Posting-Date: Sat, 02 Feb 2008 09:29:52 MST
Organization: Cox
Date: Sat, 2 Feb 2008 08:29:50 -0800
Xref: g2news1.google.com rec.radio.amateur.homebrew:15199
X-Original-Bytes: 2159

"The Shadow" <Cranston@CobaltClub.com> wrote in message
news:0j0pj.92436$Rf5.25539@newsfe13.phx...
>
> "David Rowell" <djrpublic@cfl.rr.com> wrote in message
> news:47a48266$0$6156$4c368faf@roadrunner.com...
>> Would you nice folks point me to a good how-to on desoldering?
>
> Try these URL's
>
> http://www.epemag.wimborne.co.uk/solderfaq.htm
>
> http://www.qsl.net/iz7ath/web/02_brew/14_howto/04_rec/index.htm
>
> I use these
>
> The usual way is to use a desoldering pump or vacuum pump which works like
> a small spring-loaded bicycle pump, only in reverse!
>
> An excellent alternative to a pump is to use desoldering braid, including
> the famous American "Soder-Wick" (sic) or Adcola "TISA-Wick" which are
> packaged in small dispenser reels.
>
> Lamont

Solder-Wik
http://www.wassco.com/80seresdblub1.html

Desoldering pumps
http://www.action-electronics.com/desolder.htm

Lamont

From 3321400849417263246
X-Google-Thread: fc2a5,42762f03fde45495
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews9.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14pre (X11/20071018)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power Supply for EB104
References: <604423F1oupe4U1@mid.individual.net> <5ae81d63-eff1-4c44-8f24-aa327880535e@i29g2000prf.googlegroups.com>
In-Reply-To: <5ae81d63-eff1-4c44-8f24-aa327880535e@i29g2000prf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 33
Message-ID: <dz4pj.16742$1f.6260@bignews9.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
okjdhlmeenidhihjdbdpiflmbcekedmfhojhikkbagflhcbobimekedhheiaboidlllbpipikkjbbjchjgcclondhpdnokelcgkoboddeefmpkpojamnjkpjmfbadfacmddagkmmofnhjiokhiggoficodkpomim
NNTP-Posting-Date: Sat, 02 Feb 2008 15:40:41 EST
Organization: BellSouth Internet Group
Date: Sat, 02 Feb 2008 20:40:40 +0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:15200

jimmie68@gmail.com wrote:
>
> Holger Doerschel wrote:
>> Hello,
>>
>> I build this (http://oh8jep.kotinet.com/eb104/pw_eb104.gif) power supply for
>> the EB104-amplifier. Unfortunately I can't get BUX22 and so I used BUX98A.
>>
>> The transformer-output is a little bit lower, so the DC is 62V. But the
>> supply works and I get 50V output. So far so good.
>>
>> My eb104 is still not assembled, so I tested the supply with two Osram
>> halogen lamps HLX64655 250W and 24V in series connexion.
>>
>> When the lamps are connected and the transformer is connected to the
>> mains supply sometimes the lamps will light. The current ist ca. 11
>> ampere. But the current behind the rectifier is 21A!!! But the output
>> voltage is still 50V.

>>
>> Often the lamps will not light an the voltage drops down to zero.
>
>
> Seems like i read somewhere the EB104 didnt work best at 50 volts, I
> believe it was 41 volts, maybe lower.
>
> Howard probably knows about this.
>
>

I assume that this means 41 volts gives the best IMD figure, not the lowest drive or highest power output. Maybe this is also a safe operating point with higher voltages requiring much more in the way of a heat sink or fan for safe operation without having to reduce the zero signal current to the point of more cross over distortion.

From -3529318835474414802
X-Google-Thread: fc2a5,194c41cc02270a5d
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wn12feed!worldnet.att.net!63.218.45.11!nx02.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-mail
Date: Sun, 03 Feb 2008 11:35:58 -0500
From: David Rowell <djrpublic@cfl.rr.com>
User-Agent: Thunderbird 1.5.0.14pre (X11/20071023)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: desoldering advice needed
References: <47a48266$0$6156$4c368faf@roadrunner.com>
<0j0pj.92436$Rf5.25539@newsfe13.phx>
In-Reply-To: <0j0pj.92436$Rf5.25539@newsfe13.phx>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 31
Message-ID: <47a5ed70$0$17364$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 68.205.91.236
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15201

The Shadow wrote:
>
> "David Rowell" <djrpublic@cfl.rr.com> wrote in message
> news:47a48266$0$6156$4c368faf@roadrunner.com...
>> Would you nice folks point me to a good how-to on desoldering?
>
> Try these URL's
>
> http://www.epemag.wimborne.co.uk/solderfaq.htm
>

> http://www.qsl.net/iz7ath/web/02_brew/14_howto/04_rec/index.htm
>
> I use these
>
> The usual way is to use a desoldering pump or vacuum pump which works
> like a small spring-loaded bicycle pump, only in reverse!
>
> An excellent alternative to a pump is to use desoldering braid,
> including the famous American "Soder-Wick" (sic) or Adcola "TISA-Wick"
> which are packaged in small dispenser reels.
>
> Lamont

I've been using braid as I haven't had good results with the solder
sucker devices. I was hoping that some magic secret would come forth!

Man that guy with the second link must have some junk box!

Many thanks for the reply.

Dave Rowell - KI4JVU

```
From -2028588079008967621
X-Google-Thread: fc2a5,9874b1dab95ec08e,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 03 Feb 2008 10:41:01 -0600
From: "Joe L." <joe@falseaddress2004.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: need QST article - Tandem Match follow-up
User-Agent: MT-NewsWatcher/3.4 (PPC Mac OS X)
Date: Sun, 03 Feb 2008 10:41:01 -0600
Message-ID: <joe-A91BEC.10410103022008@comcast.dca.giganews.com>
Lines: 12
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 98.206.143.179
X-Trace: sv3-AoEHaS/CQvVd4OyL+M4tcfTNR1tTYb3FMPR5XhEznKpRyos9QlAhAdT//
Zynu70KyDXsmvt1WVU5+X4!L/dhZXZmQ0kUksmQnVPb2SZahrxIJOH+wfTQdYp+Y/
gkbl5J87HoYQSU95NBCbxBdE1MnIcVFjut!MPjFik5fhMwcBMSdp0Ho7l7kw/3pzmhSFCAHx6M=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15202
```

Hello. Am looking for a copy of the "Technical Correspondence" column
from July 1993 QST. The local library only keeps the most recent 5 years

of the print issue. Could anyone please send me a PDF? It is follow-up correspondence to KI6WX's article on the Tandem Match power/SWR meter from January 1987 QST. I'm interested in building up just the forward power detector for the home workbench.

Please send to K9LY at placeholder dot net , but use comcast instead of the obviously fake domain name. ;-)

Tnx & 73,
Joe K9LY

```
From 127192160570764932
X-Google-Thread: fc2a5,194c41cc02270a5d
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e6g2000prf.googlegroups.com!not-for-
mail
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: desoldering advice needed
Date: Sun, 3 Feb 2008 11:43:58 -0800 (PST)
Organization: http://groups.google.com
Lines: 50
Message-ID: <804d2cc1-fc33-483b-b833-5b37921b2149@e6g2000prf.googlegroups.com>
References: <47a48266$0$6156$4c368faf@roadrunner.com>
<0j0pj.92436$Rf5.25539@newsfe13.phx>
     <47a5ed70$0$17364$4c368faf@roadrunner.com>
NNTP-Posting-Host: 67.59.77.133
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1202067838 23217 127.0.0.1 (3 Feb 2008 19:43:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 3 Feb 2008 19:43:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e6g2000prf.googlegroups.com; posting-host=67.59.77.133;
     posting-account=LQVNZAkAAAAHQ9vQRrCB-Qc9fLbREhw4
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15203
```

On Feb 3, 8:35 am, David Rowell <djrpub...@cfl.rr.com> wrote:

```
> The Shadow wrote:
>
> > "David Rowell" <djrpub...@cfl.rr.com> wrote in message
> >news:47a48266$0$6156$4c368faf@roadrunner.com...
> >> Would you nice folks point me to a good how-to on desoldering?
>
> > Try these URL's
>
> >http://www.epemag.wimborne.co.uk/solderfaq.htm
```

>
> >http://www.qsl.net/iz7ath/web/02_brew/14_howto/04_rec/index.htm
>
> > I use these
>
> > The usual way is to use a desoldering pump or vacuum pump which works
> > like a small spring-loaded bicycle pump, only in reverse!
>
> > An excellent alternative to a pump is to use desoldering braid,
> > including the famous American "Soder-Wick" (sic) or Adcola "TISA-Wick"
> > which are packaged in small dispenser reels.
>
> > Lamont
>
> I've been using braid as I haven't had good results with the solder
> sucker devices. I was hoping that some magic secret would come forth!
>
> Man that guy with the second link must have some junk box!
>
> Many thanks for the reply.
>
> Dave Rowell - KI4JVU

Hi, Dave.
Solder suckers are mainly for clearing holes in circuit boards using
through-hole components. Braid is used for clearing solder from
circuit board pads, either through-hole or surface mount.

I own a small electronic assembly service and my people generally
begin a circuit board clean up by applying appropriate flux to the
solder, then heating with a hot iron applied to solder-wick. Sometime
the addition of a small amount of additional solder will help get the
job started.

This procedure works for both lead solder and lead-free solder. Just
use the appropriate flux and solder-wick. Lead-free needs a very
aggressive flux and a really hot iron, so ventilation is imperative!

73's
Paul, KD7HB

```
From -7762007803645115135
X-Google-Thread: fc2a5,23dd3efb0b27667
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <4796a402$0$22578$4c368faf@roadrunner.com>
<XRxlj.311911$Fc.250450@attbi_s21> <47a0fcd9$1@clear.net.nz>
```

Subject: Re: 6146 data
Date: Sun, 3 Feb 2008 15:00:28 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Lines: 46
Message-ID: <47a61d5a$0$30718$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 75.191.181.199
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15204

"cliff wright" <c.c.wright@paradise.net.nz> wrote in message
news:47a0fcd9$1@clear.net.nz...
> Harold E. Johnson wrote:
>> "Jimmie D" <GFENDER@carolina.rr.com> wrote in message
>> news:4796a402$0$22578$4c368faf@roadrunner.com...
>>
>>>I am trying to build a class AB linear amp usig a 6146, plate voltage
>>>will be about 600 volts. What's the peak drive voltage for this
>>>configuration.
>>>
>>>Jimmie
>>
>> About one Volt less than the DC bias on the grid.
>>
>> W4ZCB
>>
>>
>>
> Hi Jimmy.
> Harold is just about right for class AB1. You can get a bit more out in
> AB2 with a small grid current but I don't reccomend it. Remember to keep
> your cathode leads short and well bypassed.
>   The best way is to have a grid current meter and NOT to run the stage
> into grid current.
> The 6146 especially the B type can be a bit unstable otherwise. I found
> that my old Kenwood 820S doesn't like them in the final. The original
> Japanese S2001's though apparently similar to the 6146B work much better.
> 73's Cliff Wright ZL1BDA

THats what I thought too but I wasnt getting the plate current I should be getting. I figured I may have a design poblem since this was a new amp still in the design stage. A few math errors on my part muddied the waters even more. At first I calculated my drive voltage from my transceiver very close to 45 volts, my bias voltage. Then I recalculated it again once I started having problems but this time got 36 volts. Well, 45 was correct but I wasnt getting that much, more like 35. The problem wasnt a design flaw though. It was just a cockpit error on my part. I was running my transceiver off of 12 volts instead of 13.5. This made quite a bit of difference in my output.

Now to get this ugly saftey hazard put together so I can use it without risking family and pets.

Jimmie

```
From 7795224878557403561
X-Google-Thread: fc2a5,9874b1dab95ec08e
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!newspeer.tds.net!
216.168.2.163.MISMATCH!sn-xt-sjc-03!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: need QST article - Tandem Match follow-up
Date: Sun, 03 Feb 2008 15:14:41 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13qcbleklmq45e6@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <joe-A91BEC.10410103022008@comcast.dca.giganews.com>
In-Reply-To: <joe-A91BEC.10410103022008@comcast.dca.giganews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 9
Xref: g2news1.google.com rec.radio.amateur.homebrew:15205
```

Joe L. wrote:

> Hello. Am looking for a copy of the "Technical Correspondence" column
> from July 1993 QST.

<snip>

Check your email

Michael

```
From -9085649037865119580
X-Google-Thread: fc2a5,9874b1dab95ec08e
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 03 Feb 2008 19:14:15 -0600
```

```
From: "Joe L." <joe@falseaddress2004.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: need QST article - RECEIVED
References: <joe-A91BEC.10410103022008@comcast.dca.giganews.com>
<13qcbleklmq45e6@corp.supernews.com>
User-Agent: MT-NewsWatcher/3.4 (PPC Mac OS X)
Date: Sun, 03 Feb 2008 19:14:14 -0600
Message-ID: <joe-C5EC3F.19141403022008@comcast.dca.giganews.com>
Lines: 3
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 98.206.143.179
X-Trace: sv3-1wT1HrPMPAgjKxejYgvJ5+GY99sg/
Rq6HYxzel4gktU5DXcWpKCEfZ3bsH+E2SGIkEOeYMUpofP/cRN!
qYFdkiyWRUjAWUQZd67lj+61p+lsJNRheUw9S8oqpmLIDOMBI7hZId7xwb8ZEUSdPe7mldM2UfzL!
huXG5z4WYcnfkaeP3X4qj25R0kqQlRxx/YpQ1Js=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15206
```

Article has been received. Thank you!

Joe K9LY

```
From -6724363609841977139
X-Google-Thread: fc2a5,194c41cc02270a5d
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.eclipse.net.uk!news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 04 Feb 2008 02:35:10 -0600
Message-ID: <s1G1YbIkyspHFAYf@ifwtech.co.uk>
Date: Mon, 4 Feb 2008 08:28:20 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: desoldering advice needed
References: <47a48266$0$6156$4c368faf@roadrunner.com>
 <0j0pj.92436$Rf5.25539@newsfe13.phx>
 <47a5ed70$0$17364$4c368faf@roadrunner.com>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<5GzkzTHxO58kRFKkMxyHHc+WVi>)
Lines: 47
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 91.84.209.172
X-Trace: sv3-ry2ZGmjQAhMwpwc9GyUhLuGkzp69NWB9KZPAo1P/
```

umCKfC9r8PzjU4T1jFpxxPZXDkLxXxkX8+oAj00!S/
a7vqPmZc+MKQJRfIyuunNtLgk40NHluM8dF6vRcD6h9b5mUlYHsZJ/gBStZiU6U5U+s+rLpw==

```
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15207
```

```
David Rowell wrote:
>The Shadow wrote:
>>  "David Rowell" <djrpublic@cfl.rr.com> wrote in message
>>news:47a48266$0$6156$4c368faf@roadrunner.com...
>>> Would you nice folks point me to a good how-to on desoldering?
>>  Try these URL's
>>  http://www.epemag.wimborne.co.uk/solderfaq.htm
>>  http://www.qsl.net/iz7ath/web/02_brew/14_howto/04_rec/index.htm
>>  I use these
>>  The usual way is to use a desoldering pump or vacuum pump which
>>works  like a small spring-loaded bicycle pump, only in reverse!
>>  An excellent alternative to a pump is to use desoldering braid,
>>including the famous American "Soder-Wick" (sic) or Adcola "TISA-Wick"
>>which are packaged in small dispenser reels.
>>  Lamont
>
>I've been using braid as I haven't had good results with the solder
>sucker devices.  I was hoping that some magic secret would come forth!
>
```

The only secret I know is that you need to have ALL of those desoldering techniques available. DON'T have a favorite technique, but always pick the best one for each individual solder joint.

The most important question is: which do you value the most - the parts that you're trying to desolder, or the board itself? That radically changes the range of techniques you might wish to use.

If you're stripping a board for parts, then the heat gun method works quite well for large IC packages. It doesn't matter if you cook the board because it has no value to you.

But when you are replacing a defective device to repair a board, it's completely the other way around. Now you have to protect the board and all the other good parts, and it's perfectly OK to destroy the defective device to do that.

For example, one of the best ways to protect the solder pads and plated-though holes is to cut through all the pins of the device first, using very sharp-pointed cutters or an X-acto knife. Throw away the body of the package, and then you can desolder the remaining 'stubs' one by one, with much less risk to the board.

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

```
From -6166782065220968544
X-Google-Thread: fc2a5,74ad0f14d5023792
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!j78g2000hsd.googlegroups.com!not-for-
mail
From: Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Are switch-mode powers supplies suitable for receivers?
Date: Mon, 4 Feb 2008 03:03:42 -0800 (PST)
Organization: http://groups.google.com
Lines: 15
Message-ID: <d354c29a-4d18-4390-b178-7045b5fee34f@j78g2000hsd.googlegroups.com>
References: <605sh6F1ppo43U1@mid.individual.net>
NNTP-Posting-Host: 218.215.179.132
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1202123023 18276 127.0.0.1 (4 Feb 2008 11:03:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 4 Feb 2008 11:03:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j78g2000hsd.googlegroups.com; posting-host=218.215.179.132;
     posting-account=LRLqpgkAAACt8OsWZnclc0j8ufDGwSA0
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15208
```

On Jan 28, 10:27 pm, "Richard" <nearlynews_em...@ntlworld.com> wrote:

> I have an ex AM PMR radio that I wish to use on 144Mhz. I need a PSU feeding
> 24V @ about 300mA.
>
> Are switch-mode powers supplies alright or are they too noisy to be used for
> receivers? TIA.

Their noisy period, but you might get away with it on 2m. But you will
still be QRM'ing everyone else...
Hold AM transistor radio next to it, have a listen as you tune across
the band....not nice, lots of spurs with rich harmonic content...

Its your choice. The dark path or the light path of Radio Karma....

Andrew VK3BFA.

From 6513499271518998177

```
X-Google-Thread: fc2a5,74ad0f14d5023792
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l32g2000hse.googlegroups.com!not-for-
mail
From: Leon <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Are switch-mode powers supplies suitable for receivers?
Date: Mon, 4 Feb 2008 03:13:27 -0800 (PST)
Organization: http://groups.google.com
Lines: 10
Message-ID: <b69a69ed-936c-4168-99ea-8e250ab99649@l32g2000hse.googlegroups.com>
References: <605sh6F1ppo43U1@mid.individual.net>
NNTP-Posting-Host: 81.159.178.236
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1202123608 19397 127.0.0.1 (4 Feb 2008 11:13:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 4 Feb 2008 11:13:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l32g2000hse.googlegroups.com; posting-host=81.159.178.236;
     posting-account=QWZLZQkAAADFmB_RJlmk3T-GvINRaZti
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15209

On 28 Jan, 11:27, "Richard" <nearlynews_em...@ntlworld.com> wrote:
> I have an ex AM PMR radio that I wish to use on 144Mhz. I need a PSU feeding
> 24V @ about 300mA.
>
> Are switch-mode powers supplies alright or are they too noisy to be used for
> receivers? TIA.

I use a 12V switcher with my FT-817D, it's very quiet.

Leon



From -951593469305923167
X-Google-Thread: fc2a5,74ad0f14d5023792
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q21g2000hsa.googlegroups.com!not-for-
mail
From: Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Are switch-mode powers supplies suitable for receivers?
Date: Mon, 4 Feb 2008 03:55:08 -0800 (PST)
Organization: http://groups.google.com
Lines: 32
Message-ID: <6288d317-b248-4c08-a697-ebe2ce067bb7@q21g2000hsa.googlegroups.com>
```

```
References: <605sh6F1ppo43U1@mid.individual.net>
<b69a69ed-936c-4168-99ea-8e250ab99649@l32g2000hse.googlegroups.com>
NNTP-Posting-Host: 218.215.179.132
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1202126109 24665 127.0.0.1 (4 Feb 2008 11:55:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 4 Feb 2008 11:55:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q21g2000hsa.googlegroups.com; posting-host=218.215.179.132;
     posting-account=LRLqpgkAAACt8OsWZnclc0j8ufDGwSA0
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15210

On Feb 4, 10:13 pm, Leon <leon...@btinternet.com> wrote:
> On 28 Jan, 11:27, "Richard" <nearlynews_em...@ntlworld.com> wrote:
>
> > I have an ex AM PMR radio that I wish to use on 144Mhz. I need a PSU feeding
> > 24V @ about 300mA.
>
> > Are switch-mode powers supplies alright or are they too noisy to be used for
> > receivers? TIA.
>
> I use a 12V switcher with my FT-817D, it's very quiet.
>
> Leon

You were lucky - you got a quiet one. And its the luck of the draw,
unfortunately.

How come we have all been conned into these switchmode things? - by
their very nature, without a lot of effort, they are noise generators.
Their cheap to make, thats their only advantage - everything else is
part of the spin cycle. And if it works on 2m and above, fine - you
will just be adding to the already horrendous RF pollution from
thousands of the bloody things already on HF - the suburbs are getting
unbearable, S9 plus noise, every night, on 80m.....160 aint to crash
hot either...

I refuse to have to work on a power supply to get it quiet enough to
be used with a radio. I am interested in the radio, not fixing
shortcomings in design of things that , by their very nature, are
unsuitable to be used near radios. That sucks. Linear technology is
far easier and quieter...

Andrew VK3BFA.


From -6931743688816578115
X-Google-Thread: fc2a5,74ad0f14d5023792
```

X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!postnews.google.com!
c4g2000hsg.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Are switch-mode powers supplies suitable for receivers?
Date: Mon, 4 Feb 2008 08:52:41 -0800 (PST)
Organization: http://groups.google.com
Lines: 64
Message-ID: <3870e4fc-5baa-4229-83fc-3f430876490f@c4g2000hsg.googlegroups.com>
References: <605sh6F1ppo43U1@mid.individual.net>
<b69a69ed-936c-4168-99ea-8e250ab99649@l32g2000hse.googlegroups.com>
     <6288d317-b248-4c08-a697-ebe2ce067bb7@q21g2000hsa.googlegroups.com>
NNTP-Posting-Host: 71.113.59.175
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1202143965 30764 127.0.0.1 (4 Feb 2008 16:52:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 4 Feb 2008 16:52:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c4g2000hsg.googlegroups.com; posting-host=71.113.59.175;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15211

On Feb 4, 3:55 am, Andrew VK3BFA <vk3...@hotmail.com> wrote:
> On Feb 4, 10:13 pm, Leon <leon...@btinternet.com> wrote:
>
> > On 28 Jan, 11:27, "Richard" <nearlynews_em...@ntlworld.com> wrote:
>
> > > I have an ex AM PMR radio that I wish to use on 144Mhz. I need a PSU feeding
> > > 24V @ about 300mA.
>
> > > Are switch-mode powers supplies alright or are they too noisy to be used for
> > > receivers? TIA.
>
> > I use a 12V switcher with my FT-817D, it's very quiet.
>
> > Leon
>
> You were lucky - you got a quiet one. And its the luck of the draw,
> unfortunately.
>
> How come we have all been conned into these switchmode things? - by
> their very nature, without a lot of effort, they are noise generators.
> Their cheap to make, thats their only advantage - everything else is
> part of the spin cycle. And if it works on 2m and above, fine - you
> will just be adding to the already horrendous RF pollution from
> thousands of the bloody things already on HF - the suburbs are getting

> unbearable, S9 plus noise, every night, on 80m.....160 aint to crash
> hot either...
>
> I refuse to have to work on a power supply to get it quiet enough to
> be used with a radio. I am interested in the radio, not fixing
> shortcomings in design of things that , by their very nature, are
> unsuitable to be used near radios. That sucks. Linear technology is
> far easier and quieter...
>
> Andrew VK3BFA.

There's another advantage of a switching supply that is very important to some of us: efficiency. The receiver I've been working on runs from 5VDC, but I have to supply power at 1.0V, 1.2V 1.8V, 2.5V and 3.3V, and each one of those uses a switcher. A linear regulator to 1V from 5V will result in a supply that's 20% efficient. The switcher I'm using for that supply is about 87% efficient under its operating conditions. If I tried to run all my supplies with linear regulators, I'd have to supply over twice the power; it would come close to violating the power rating of the 5V supply, and power dissipation in the receiver would result in excessive heat rise.

But even with all those switchers, the only spurs greater than about -145dBm (antenna-input-referred) and greater than 1.5MHz are from digital circuits, not the power supplies. -145dBm is, I believe, 20dB _below_ S1 by usual definition of the S-meter units. Even the power supply fundamentals are only at about S1. And the supplies are not themselves shielded. (The receiver RF circuitry is, of course, as is the whole receiver module.)

I would be much more circumspect about using a switching supply in a homebrew receiver that was going to be used where power dissipation wasn't an issue, but then I'd do a lot of things differently than I have for such a receiver. It wouldn't keep me from using switchers; I'd just look at the whole design in a different way. On the other hand, finding ones that would be adequately quiet for a 144MHz receiver should not be difficult at all.

Cheers,
Tom

From 4493245603837705219
X-Google-Thread: fc2a5,194c41cc02270a5d
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news1.google.com!news.glorb.com!
peer1.news.newnet.co.uk!194.159.246.34.MISMATCH!peer-uk.news.demon.net!
kibo.news.demon.net!news.demon.co.uk!demon!clintsmc.demon.co.uk!clint
From: Clint Sharp <clint@clintsmc.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: desoldering advice needed
Date: Mon, 4 Feb 2008 17:32:00 +0000

Organization: Little
Lines: 33
Message-ID: <PhYbcJFQw0pHFwt+@clintsmc.demon.co.uk>
References: <47a48266$0$6156$4c368faf@roadrunner.com>
 <0j0pj.92436$Rf5.25539@newsfe13.phx>
 <47a5ed70$0$17364$4c368faf@roadrunner.com>
NNTP-Posting-Host: clintsmc.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1202146730 3973 62.49.16.63 (4 Feb 2008 17:38:50 GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Mon, 4 Feb 2008 17:38:50 +0000 (UTC)
X-Antivirus: avast! (VPS 080203-0, 03/02/2008), Outbound message
X-Antivirus-Status: Clean
User-Agent: Turnpike/6.05-S (<6AL5M7cvbU6K87hF8LbGFFWZ>)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15212

In message <47a5ed70$0$17364$4c368faf@roadrunner.com>, David Rowell
<djrpublic@cfl.rr.com> writes
>I've been using braid as I haven't had good results with the solder
>sucker devices. I was hoping that some magic secret would come forth!
I've used solder suckers for over 25 years now (man that makes me feel
old) You need top make sure that the sucker has a good seal on the
plunger, if you block the tip with your finger it should stop the
plunger if you hit the trigger.

  Another essential tip is to make sure you have enough solder on the
joint, it's often difficult to remove existing solder if you don't add
some more, don't worry unduly about leaving solder behind, you can clean
that up later with either wick or the sucker.

  Make sure the joint is molten, get a good iron with a high heat
capacity, I.E. one that maintains it's temperature when you put the tip
on a cold lump of solder. I use a Weller W60D for almost everything
(including reworking TSOP chips! Bet you can't tell it's been worked
after I've removed the flux either.) with, IRC, a CT7 tip . Once the
joint is molten try to move the pin in the hole, if it doesn't move then
most likely the joint isn't molten, it's unusual for a pin to be a tight
fit in a hole. Pre-heating a board can help immensely with 'difficult'
boards

If you get all the above right, once you get the 'knack' you'll be able
to desolder leaded components from multi-layer boards with internal
ground and power planes with ease without damaging either chip or board.
>
>
>Dave Rowell - KI4JVU

--
Clint Sharp

From 5389494936620287726

```
X-Google-Thread: fc2a5,194c41cc02270a5d
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!nlpi070.nbdc.sbc.com.POSTED!a44c331b!not-for-mail
From: "Nelson" <nelsonogden+usenet@gmail.com>
Subject: Re: desoldering advice needed
Newsgroups: rec.radio.amateur.homebrew
References: <s1G1YbIkyspHFAYf@ifwtech.co.uk>
Lines: 33
Message-ID: <n1Jpj.10512$EZ3.4791@nlpi070.nbdc.sbc.com>
NNTP-Posting-Host: 76.253.122.6
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi070.nbdc.sbc.com 1202150611 ST000 76.253.122.6 (Mon, 04 Feb 2008
13:43:31 EST)
NNTP-Posting-Date: Mon, 04 Feb 2008 13:43:31 EST
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
FKPO@MON[JWKR_TX@ZHJOT@@[JT@QDDMEPWXODMMHXMTWA]EPUUEAE[YETZPIWWI[FCIZA^NBFXZ_D[BFN
TCNVPDTNTKHWXKB@X^B_OCJLPZ@ET_O[G\XSG@E\G[ZKVLBL^CJINM@I_KVIOR\T_M_AW_M[_BWU_HFA_]
@A_A^SGFAUDE_DFTMQPFWVW[QPJN
Date: Mon, 4 Feb 2008 13:43:37 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:15213

>The only secret I know is that you need to have ALL of those desoldering
>techniques available. DON'T have a favorite technique, but always pick
>the best one for each individual solder joint.
>
>The most important question is: which do you value the most - the parts
>that you're trying to desolder, or the board itself? That radically
>changes the range of techniques you might wish to use.
>
>If you're stripping a board for parts, then the heat gun method works
>quite well for large IC packages. It doesn't matter if you cook the
>board because it has no value to you.
>
>But when you are replacing a defective device to repair a board, it's
>completely the other way around. Now you have to protect the board and
>all the other good parts, and it's perfectly OK to destroy the defective
>device to do that.
>
>For example, one of the best ways to protect the solder pads and
>plated-though holes is to cut through all the pins of the device first,
>using very sharp-pointed cutters or an X-acto knife. Throw away the body
>of the package, and then you can desolder the remaining 'stubs' one by
>one, with much less risk to the board.
>
>
>--
>
>73 from Ian GM3SEK         'In Practice' columnist for RadCom (RSGB)
>http://www.ifwtech.co.uk/g3sek
```

Is there a good way to salvage good IC's from a junk board without a heat gun? I've tried solder wick but I always seem to spend so much time with desoldering each pin that I cook the IC, even if I can remove it.

Thanks, Nelson

From -6683196650059723513
X-Google-Thread: fc2a5,194c41cc02270a5d
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!roadrunner.com!not-for-mail
Date: Mon, 04 Feb 2008 14:59:57 -0500
From: David Rowell <djrpublic@cfl.rr.com>
User-Agent: Thunderbird 1.5.0.14pre (X11/20071023)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: desoldering advice needed
References: <47a48266$0$6156$4c368faf@roadrunner.com>
In-Reply-To: <47a48266$0$6156$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 12
Message-ID: <47a76ec0$0$4965$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 68.205.91.236
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15214

David Rowell wrote:
> Would you nice folks point me to a good how-to on desoldering?

You guys are great! Thanks for the tips, I think I've learned something today.

I guess that my major hang-up has been getting the hole clean after I've chopped up the component and removed the leads from the board. Why didn't I think of using a solder sucker there?????

Dave Rowell

From 8227319197415985520
X-Google-Thread: fc2a5,194c41cc02270a5d
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.litech.org!not-for-mail

From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: desoldering advice needed
Date: Mon, 4 Feb 2008 21:49:31 +0000 (UTC)
Organization: Me?
Lines: 16
Sender: mikea@mikea.ath.cx
Message-ID: <fo819b$8f3$1@puck.litech.org>
References: <s1G1YbIkyspHFAYf@ifwtech.co.uk>
<n1Jpj.10512$EZ3.4791@nlpi070.nbdc.sbc.com>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1202161771 8675 70.164.65.62 (4 Feb 2008 21:49:31 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Mon, 4 Feb 2008 21:49:31 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news1.google.com rec.radio.amateur.homebrew:15215

On Mon, 4 Feb 2008 13:43:37 -0500,
 Nelson <nelsonogden+usenet@gmail.com> wrote in
 <n1Jpj.10512$EZ3.4791@nlpi070.nbdc.sbc.com>:

> Is there a good way to salvage good IC's from a junk board without a
> heat gun? I've tried solder wick but I always seem to spend so much
> time with desoldering each pin that I cook the IC, even if I can
> remove it.

A toaster oven works great for getting surface-mount stuff off, or
(if you've put solder paste on the pads) for soldering SMD stuff.

--
"It takes a million monkeys at typewriters to write Shakespeare, but
only a dozen monkeys at computers to run Network Solutions."
-- Patrick Delahanty

From 7284874686660627657
X-Google-Thread: fc2a5,25a5f1ae3e27c3f9,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews8.bellsouth.net.POSTED!f0db3255!not-for-mail
From: "KF4DNA" <kf4dna@kf4dna.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: WebPage
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <vkNpj.65980$vt2.40911@bignews8.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mabncmnekmdohbabdbdpiflmbcekedmfhojhikkbagflhcbolbphekcjknpaejpchpjgkneleeomndmolnpemdeipijlmmlnhhpgngloblankoihiodmhfomcholcfgljggdkkenhgblcenkhbfbbgdbemghfool
NNTP-Posting-Date: Mon, 04 Feb 2008 18:36:59 EST
Organization: BellSouth Internet Group
Date: Mon, 4 Feb 2008 17:37:02 -0600
Xref: g2news1.google.com rec.radio.amateur.homebrew:15216

This webpage is dedicated to Everything that can be called EXTREME !

Skydiving, Storm Chasing, Rocketry, WebPage Resources and Amateur Radio

There is also a huge collection of resources for webpage development and promotion.

http://www.kf4dna.net

From 509095401528601254
X-Google-Thread: fc2a5,c927504630cd9c8e,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!uns-out.usenetserver.com!news.usenetserver.com!pc03.usenetserver.com!FUSE.NET-a2kHrUvQQWlmc!not-for-mail
Date: Tue, 05 Feb 2008 12:54:35 -0500
From: jawod <jawod@fuse.net>
User-Agent: Mozilla Thunderbird 1.0.2 (Macintosh/20050317)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: spiderbeam antenna
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <9f8bd$47a8a44b$d066b697$23287@FUSE.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 33
X-Trace: 9f8bd47a8a44b75c3133223287
Xref: g2news1.google.com rec.radio.amateur.homebrew:15217

I tried to post on the antenna group but most of the conversation over there seems to remain on a rather esoteric (and pedantic) plan.

So I'll try here (hope that's OK)

I had a QSO with a VE who uses a "SpiderBeam" which I had never heard of.

Apparently it is a folded modified Moxon design wherein the reflector
and director elements (made of wire) are folded back toward the center
of the antenna

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      \   /
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      /   \
     /_____\
```

I am actually proud of that drawing (!)

It comes as a kit that you construct with fiberglass tubes ,etc.

It is reportedly used a lot in DXpeditions.

Now they have a "home version" that is a little more sturdy.

Has anyone used it and care to comment?

Much appreciated

John
AB8O

```
From -2153975184231105879
X-Google-Thread: fc2a5,c927504630cd9c8e
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!
cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.phx!
newsfe07.phx.POSTED!53ab2750!not-for-mail
From: "The Shadow" <Cranston@CobaltClub.com>
Newsgroups: rec.radio.amateur.homebrew
References: <9f8bd$47a8a44b$d066b697$23287@FUSE.NET>
In-Reply-To: <9f8bd$47a8a44b$d066b697$23287@FUSE.NET>
Subject: Re: spiderbeam antenna
Lines: 42
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6000.16480
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6000.16545
Message-ID: <xC2qj.19010$4H1.16935@newsfe07.phx>
NNTP-Posting-Host: 72.197.13.209
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe07.phx 1202239005 72.197.13.209 (Tue, 05 Feb 2008 12:16:45 MST)
NNTP-Posting-Date: Tue, 05 Feb 2008 12:16:45 MST
Organization: Cox
Date: Tue, 5 Feb 2008 11:16:44 -0800
Xref: g2news1.google.com rec.radio.amateur.homebrew:15218
X-Original-Bytes: 2129

"jawod" <jawod@fuse.net> wrote in message
news:9f8bd$47a8a44b$d066b697$23287@FUSE.NET...
>I tried to post on the antenna group but most of the conversation over
>there seems to remain on a rather esoteric (and pedantic) plan.
>
> So I'll try here (hope that's OK)
>
> I had a QSO with a VE who uses a "SpiderBeam" which I had never heard of.
>
> Apparently it is a folded modified Moxon design wherein the reflector and
> director elements (made of wire) are folded back toward the center of the
> antenna
>

```
>     _______
>     \     /
>      \   /
>    ---------
>
>      /   \
>     /_____\
>
```

> I am actually proud of that drawing (!)
>
> It comes as a kit that you construct with fiberglass tubes ,etc.
>
> It is reportedly used a lot in DXpeditions.
>
> Now they have a "home version" that is a little more sturdy.
>
> Has anyone used it and care to comment?
>
> Much appreciated
>
> John
> AB8O

have you seen E-Ham reviews
http://www.eham.net/reviews/detail/3688

Lamont

From 6732012988666636836
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!tethys.csu.net!
nntp.csufresno.edu!sn-xt-sjc-02!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article
Date: Fri, 18 Jan 2008 23:49:09 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13p33e79kken49f@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<13ov989erjuvec1@corp.supernews.com> <13p0ejh8809ik91@corp.supernews.com>
In-Reply-To: <13p0ejh8809ik91@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 11
Xref: g2news1.google.com rec.radio.amateur.homebrew:15117

Dave wrote:
<snip>
> I would *love* a copy. My Hotmail address should work, but if it bounces
> for any reason, try
> d b e a n e (at) p d q (dot) n e t
>
> That one *will* work.

Sent to above yesterday; let me know if you didn't get it.

Michael

From -5943936316991086039
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-04!sn-xt-sjc-07!sn-xt-sjc-11!
sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article
Date: Fri, 18 Jan 2008 23:49:47 -0600

```
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13p33fdm56c80d7@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<13ov989erjuvec1@corp.supernews.com> <4790a5d3$0$16039$5fc30a8@news.tiscali.it>
In-Reply-To: <4790a5d3$0$16039$5fc30a8@news.tiscali.it>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 11
Xref: g2news1.google.com rec.radio.amateur.homebrew:15118

Meregalli wrote:

<snip>
>
> Would you be so kind to send me the sad pdf?
> My Email is good
> Luca

Sent yesterday; let me know if you didn't get it.

Michael



From -1137889696013699734
X-Google-Thread: fc2a5,8e368a40beb9120c,start
X-Google-Thread: fc8b1,8e368a40beb9120c,start
X-Google-Thread: 111d0a,8e368a40beb9120c,start
X-Google-Thread: 113975,8e368a40beb9120c,start
X-Google-Attributes: gidfc2a5,gidfc8b1,gid111d0a,gid113975,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e25g2000prg.googlegroups.com!not-for-
mail
From: "bill.meara@gmail.com" <bill.meara@gmail.com>
Newsgroups: rec.radio.amateur.homebrew, rec.radio.amateur.boatanchors,
     sci.electronics.basics, sci.astro.amateur
Subject: SolderSmoke #74: 1st transistor QSO, Tunnel Diodes, Mixers, ZS6ADY
     Boatanchors QSO
Date: Fri, 18 Jan 2008 22:00:18 -0800 (PST)
Organization: http://groups.google.com
Lines: 52
Message-ID: <235b6ec4-4c05-4c58-9f3f-7a45e22acd74@e25g2000prg.googlegroups.com>
NNTP-Posting-Host: 81.208.83.208
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1200722418 13093 127.0.0.1 (19 Jan 2008 06:00:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 19 Jan 2008 06:00:18 +0000 (UTC)
```

```
Complaints-To: groups-abuse@google.com
Injection-Info: e25g2000prg.googlegroups.com; posting-host=81.208.83.208;
     posting-account=ePxsiwkAAACeKyenV1cL73nSaGPyDy3Q
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15119
rec.radio.amateur.boatanchors:13806 sci.electronics.basics:68027
sci.astro.amateur:98926
```

SolderSmoke!
A SHOW FOR ELECTRONICS HOMEBREWERS!

http://www.soldersmoke.com

Listen at: http://www.soldersmoke.com

SolderSmoke #74

January 18, 2008
Solar Cycle 24.
First transistor QSO.
Tunnel Diode Madness.
Rovers on Mars.
SETI.
BSEE in a can: EMRFD+LTSPICE+QRP-L.
Understanding mixers.
Kipling's Afghan Heliographs.
Tech Topics.
MAILBAG.
Part II of Andy, ZS6ADY, Boatanchors QSO.
KL7R SK.

Tired of listening to the The Foo Fighters or Shakira on your I-Pod?   Wouldn't you like to be able to carry with
you the kinds of ham radio conversations that you listen to while in your radio shack? Tune in to SolderSmoke!

RSS FEED: You can subscribe to the program, have them downloaded to your MP-3 player, and listen to them at your convenience. To subscribe, just cut and paste this URL into your I-poder (or similar) software.
http://www.soldersmoke.com/soldersmoke.rss

If you don't have an MP3 player you can just go to the site below and listen to the latest program (and earlier editions) using the audio software on your computer.

http://www.soldersmoke.com

All the programs are available here.

I hope you enjoy the program. Please send us
feedback.

73 from Rome
Bill M0HBR N2CQR CU2JL
http://www.gadgeteer.us

```
From 5956943919905886244
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!feeder.news-service.com!newsfeed.freenet.de!news.tiscali.de!
tiscali!newsfeed1.ip.tiscali.net!draco.tiscalinet.it!news-f2.tiscali.it!not-for-
mail
From: "Meregalli" <merega@tiscali.it>
Newsgroups: rec.radio.amateur.homebrew
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<13ov989erjuvec1@corp.supernews.com> <4790a5d3$0$16039$5fc30a8@news.tiscali.it>
<13p33fdm56c80d7@corp.supernews.com>
Subject: Re: April 1977 QST article
Date: Sat, 19 Jan 2008 08:18:23 +0100
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-Antivirus: avast! (VPS 080118-0, 18/01/2008), Outbound message
X-Antivirus-Status: Clean
Lines: 18
Message-ID: <4791a442$0$21204$5fc30a8@news.tiscali.it>
Organization: Tiscali SpA
NNTP-Posting-Host: 84.223.44.121
X-Trace: 1200727106 news.tiscali.it 21204 84.223.44.121:1110
X-Complaints-To: abuse@tiscali.it
Xref: g2news1.google.com rec.radio.amateur.homebrew:15120
```

msg wrote:
> Meregalli wrote:
>
> <snip>
>>
>> Would you be so kind to send me the sad pdf?
>> My Email is good

>> Luca
>
> Sent yesterday; let me know if you didn't get it.
>
> Michael

Dear Michael,until now I didn't receive anythig from you.
If you want to try again i'll post here my Email
mereganospamtiscali.it,
erase nospam to use it.
Regards Luca

From -7204558819571915322
X-Google-Thread: fc2a5,ee4f92bf681c4872,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!newspeer1.se.telia.net!
se.telia.net!masternews.telia.net.!newsb.telia.net.POSTED!not-for-mail
From: "Hoytie Toytie" <hoytie.toytie.008@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: AY11 or AEY12 tunnel diodes
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <Ajkkj.2965$R_4.2303@newsb.telia.net>
Date: Sat, 19 Jan 2008 10:30:56 GMT
NNTP-Posting-Host: 81.227.196.38
X-Complaints-To: abuse@telia.com
X-Trace: newsb.telia.net 1200738656 81.227.196.38 (Sat, 19 Jan 2008 11:30:56 CET)
NNTP-Posting-Date: Sat, 19 Jan 2008 11:30:56 CET
Organization: Telia Internet
Xref: g2news1.google.com rec.radio.amateur.homebrew:15121

They used to be "common as muck", and I bought loads of them from Henrys
Radio, (202 Edgeware st, London). But that was more than a couple of years
ago, since then I have moved house several times, moved country, had a
divorce and had all my belongings stolen.

Does anyone have any AEY11 or AEY12 tunnel diodes left? I cant seem to find
a supplier anymore.

BR Harry - harryvpo(at)hotmail(dot)com

From 6421519551151986873
X-Google-Thread: fc2a5,ee4f92bf681c4872
X-Google-Attributes: gidfc2a5,public,usenet

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 19 Jan 2008 05:07:51 -0600
Message-ID: <lUuHl1S8kdkHFAiF@ifwtech.co.uk>
Date: Sat, 19 Jan 2008 11:04:28 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: AY11 or AEY12 tunnel diodes
References: <Ajkkj.2965$R_4.2303@newsb.telia.net>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<52wkzTBVO5sUTFKkHhyHHc+ZTV>)
Lines: 19
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 91.84.209.172
X-Trace:
sv3-1E4m2pA+o2Y8GLojvQ8KgrTHvS1iPuz0wcNykP6MQyQ9RDVRAnbuIfEqzJLIz2Pa4B5EG8bznCia57
8!kxcDWu9NQqJ0mQx+xdpUPuJn2Q0ZjsX6YtPfqEuF4lW3vc9dPpWy69hZouYXnYLegGX64YnA4Q==
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15122
```

Hoytie Toytie wrote:

>They used to be "common as muck", and I bought loads of them from Henrys
>Radio, (202 Edgeware st, London). But that was more than a couple of years
>ago, since then I have moved house several times, moved country, had a
>divorce and had all my belongings stolen.
>
>Does anyone have any AEY11 or AEY12 tunnel diodes left? I cant seem to find
>a supplier anymore.

Many of these devices are about 30 years old, and a friend in the semiconductor industry speculated that, in that time, their extreme doping gradients may have relaxed by diffusion. So even if you could find some "new old stock", their characteristics may have changed significantly.

--

73 from Ian GM3SEK

```
From -585780351600181536
X-Google-Thread: fc2a5,9e6de777e3c73fa6
```

X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 19 Jan 2008 22:12:39 -0600
From: "gb" <w9nogbspam@arrlspamno.net>
Newsgroups: rec.radio.amateur.homebrew
References: <5v9uu5F1liu0cU1@mid.individual.net>
Subject: Re: Detailed photos of Motorola/CCI EB104 Board
Date: Sat, 19 Jan 2008 22:12:29 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3205
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3205
X-RFC2646: Format=Flowed; Original
Message-ID: <A8adnSFRXr6qVw_anZ2dnUVZ_u-unZ2d@comcast.com>
Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.14.244.109
X-Trace: sv3-6JXMx2fsG+3VqMPC3+ZfJRf5N2PYoN5fghvL7KWgG/
qC8r7ZADSvbGWVBKT+oXO27jXoOAPr6Q3+0QB!of6Sxjfft1/44AVX8pJeUH/ceYFjPOtqiSk/
wxQsQ1gWhys6KGHUpPjgx3y04DN9Takcimbz9+zy!j9jFN4PxXL90CDqrTHS8ElC9W9+puQ==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15123

"Holger Doerschel" <newsgroups@pt100.net> wrote in message
news:5v9uu5F1liu0cU1@mid.individual.net...
> Hello,
>
> I bought the EB104 kit from CCI. The documentation is a little bit poor
> (black and white, poor copy). Has anyone dedailed photos of the assembled
> board?
>
> And:
> Has anybody some informations of an appicable low-pass filter or an
> diplexer
> (all bands inc. warc)?
>
>
> best regards
>
> Holger / DL9HDA

Have you looked at Mike Grierson, G3TSO homebrew work ???
http://www.qsl.net/g3tso/HFLinearFrameSet1.html

Mike is an award winning homebrew / transceiver builder :-)

w9gb

```
From 8364117656985884403
X-Google-Thread: fc2a5,97a2d4f1eb574bc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-xxxfer.readnews.com!textspool1.readnews.com!news-
out.readnews.com!postnews3.readnews.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Syncing Up Multiple Magnetrons
From: hexter@blazenet.net (gudmundur)
Reply-To: retxeh@blazenet.net
Organization: alphabetically?
X-Newsreader: WinVN 0.99.6
References: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
MIME-Version: 1.0
Content-Type: Text/Plain; charset=US-ASCII
Date: 20 Jan 2008 04:35:24 GMT
Lines: 42
Message-ID: <4792cf8b$0$1257$470ef3ce@news.pa.net>
NNTP-Posting-Host: 4c16a637.news.pa.net
X-Trace: DXC=fhcP3C?I3C9_9K0=lMlDW49B5=CnbAAl:n9cn=8<YAk74E03hZOcE=8khJT3b40S81
X-Complaints-To: abuse@pa.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15124
```

In article <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>,
hcm1955@gmail.com says...

>
> Does anyone in the group know anything about magnetrons? I planning to
> do some experiments in transmitting microwaves.
>
> I would like to use standard magnetrons from a microwave oven and
> believe I can beam further if operated at the same frequency and
> with the outputs in phase. I have no idea on how to do this. Please
> advise
>
> Cheers,
> Bert
>
>

There isn't any hamband for the magnetrons you are likely to get
your hands on, so it would be illeagal for you to 'beam' anywhere.
Multiple mags don't like to 'lock up' very well in pulse duty and
you surely won't be running any microwave oven mags in cw mode.
How would you verify if your kluge monster was in fact locked
together? Got any ghz range spectrum analyzers handy? Most mags

designed to be used in parallel power production have a built in injection probe with an SMA or BNC fitting right on the mag. So you are going to be beaming, and receiving with what? A spark gap? You don't need, and couldn't handle the power of multiple magnetrons. You can blow up every solid state device in your workshop just by tearing the front door off your microwave oven and jumping out the interlocks. Do you realize the body of the magnetron is the anode and you will probably electrocute yourself before I can find a sound reason for anybody but a genuine rf engineer to try putting two magnetrons in phase lock parallel operation? Far longer would you live throwing 20 pound propane tanks into a fire and see how far they 'beam'.

From -8391021558932934019
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.phx!newsfe14.phx.POSTED!53ab2750!not-for-mail
From: David L. Foreman <davelf11@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article
Organization: 2 Copy Site License
Message-ID: <otl5p35979be9r03ht0p06rmskla7386n2@4ax.com>
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 15
NNTP-Posting-Host: 72.200.125.39
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe14.phx 1200805842 72.200.125.39 (Sat, 19 Jan 2008 22:10:42 MST)
NNTP-Posting-Date: Sat, 19 Jan 2008 22:10:42 MST
Date: Sat, 19 Jan 2008 22:10:44 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:15125

On Mon, 14 Jan 2008 14:50:50 -0600, "Pete KE9OA" <p.gianako@comcast.net> wrote:

>Hi,
>
>Does anybody have a copy of the April 1977 QST? The article I am interested
>in the the one by Howard Sartori, entitled
>"solid tubes, a new life for old designs".

>If somebody could scan this article, I would be glad to pay them. Thanks!
>
>Pete KE9OA
>

Please add me to the list as well.
Thanks Much
Dave Foreman

```
From 2961546926200942618
X-Google-Thread: fc2a5,86528631f0b2e452,start
X-Google-Thread: fc8b1,86528631f0b2e452,start
X-Google-Thread: f4535,86528631f0b2e452,start
X-Google-Thread: 108122,86528631f0b2e452,start
X-Google-Thread: 107ada,86528631f0b2e452,start
X-Google-Attributes: gidfc2a5,gidfc8b1,gidf4535,gid108122,gid107ada,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q39g2000hsf.googlegroups.com!not-for-
mail
From: Toadd6@gmail.com
Newsgroups: rec.radio.amateur.homebrew, rec.radio.amateur.boatanchors,
     rec.audio.tubes, rec.radio.amateur.equipment, rec.radio.amateur.misc
Subject: RCA Receiving Tube Manual download links
Date: Sun, 20 Jan 2008 09:55:04 -0800 (PST)
Organization: http://groups.google.com
Lines: 25
Message-ID: <44a74c69-c119-40cf-9ca0-e4103e71187f@q39g2000hsf.googlegroups.com>
NNTP-Posting-Host: 68.63.248.87
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1200851704 14277 127.0.0.1 (20 Jan 2008 17:55:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 20 Jan 2008 17:55:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q39g2000hsf.googlegroups.com; posting-host=68.63.248.87;
     posting-account=Xce_-AoAAADb1bkYHmJHEn1aL6mKy6sj
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15126
rec.radio.amateur.boatanchors:13817 rec.audio.tubes:49285
rec.radio.amateur.equipment:13828 rec.radio.amateur.misc:43113
```

RCA Receiving Tube Manuals

RC-30 1975 edition
http://rapidshare.com/files/75244077/RC30.pdf.html

RC-26 1968 edition
http://rapidshare.com/files/85192789/RC26.pdf.html

RC-23 1964 edition
http://rapidshare.com/files/85190496/RC23.pdf.html

RC-20 1960 edition
http://rapidshare.com/files/85188444/RC20.pdf.html

RC-18 1956 edition
http://rapidshare.com/files/85184343/RC18.pdf.html

RC-17 1954 edition
http://rapidshare.com/files/85194596/RC17.pdf.html

RC-16 1950 edition
http://rapidshare.com/files/85196176/RC16.pdf.html

RC-15 1947 edition
http://rapidshare.com/files/85197151/RC15.pdf.html

```
From 8779408427689726741
X-Google-Thread: fc2a5,b97534b2a1062f0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!h11g2000prf.googlegroups.com!not-for-
mail
From: "JRCCrabtree@gmail.com" <JRCCrabtree@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ferrite loop antenna for LW/MW band
Date: Sun, 20 Jan 2008 10:40:39 -0800 (PST)
Organization: http://groups.google.com
Lines: 85
Message-ID: <77594df8-783f-40f7-98d1-71b36f619eae@h11g2000prf.googlegroups.com>
References: <dcadnZsBbpgKgxLanZ2dnUVZ_v2pnZ2d@comcast.com>
NNTP-Posting-Host: 64.12.116.144
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1200854440 16697 127.0.0.1 (20 Jan 2008 18:40:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 20 Jan 2008 18:40:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: h11g2000prf.googlegroups.com; posting-host=64.12.116.144;
     posting-account=oReaeAoAAAC8QjvgaTJKVc8n6hZSq0yP
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
     98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-mtc-td02.proxy.aol.com[400C7062] (Prism/1.2.1),
     HTTP/1.1 cache-mtc-ac15.proxy.aol.com[400C7490] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:15127
```

On Jan 17, 3:23=EF=BF=BDam, "Pete KE9OA" <p.gian...@comcast.net> wrote:
> Hi,
>

> Is there any kind of program that makes the calculations a bit easier? If =
I
> knew how to do the calculations, I could throw the formula into a
> spreadsheet. What I need to do is calculate the inductance with the
> parameters of cross sectional area, length, position on the ferrite rod,
> number of turns, and permeability of the ferrite material itself.
> I would like to throw these parameters into the spreadsheet/program, and l=
et
> the software calculate the inductance for me.
>
> Pete

Hello Pete

AFAIK there is no set of formulae which will do the job for you. What follows comes from E.C. Snelling, "Soft Ferrites: Properties and Applications", 2nd ed, 1988, p 155. Sadly this book's quality is exceeded by it's rarity.

Snelling starts off by saying that the inductance ratio mu(coil), or apparent permeability, of a coil when it has a ferrite core is diffiult to calculate, "since it depends upon on the geometry of the winding and the core and to some extent the core permeability".

Snelling goes on to present a simpler approach which "applies only to centrally placed windings". He starts by assuming that a "magnetically long cylinder" is covered over its whole length. (I do not know if these means that the coil is tight wound or not, or even whether this matters). He then goes on to state that the inductance of the coil is proportional to mu(rod) times the area times the number of turns squared divided by the length of the rod.

He then presents curves based on experimental data, based on coils where the centrally placed winding covered 5-100% of the coil, the initial permeability ranged from 15 to 1000, and the length/diameter ratios of the rod varied from 3 to 18. The results are shown on p. 155. Snelling comments that using the mean curve will produce an error of 12% or less.

The curve plots 10exp09 times L / (A.N.N.mu(rod)), against the fraction of the rod which is covered. The approximate values (fraction of rod covered first) are:

0.1	2.75
0.2	2.25
0.3	2.1
0.4	1.85
0.5	1.7
0.6	1.5
0.7	1.35
0.8	1.15
0.9	1.05
1.0	0.95

Note that you have to calcluate mu(rod), which depends upon the initial permeabilty of the ferrite, and the demagnetization factor. The demagnetization factor depends up the length /diameter ratio, and to some extent the intial permeability of the rod. You can read the demagnetization factor off a chart (Snelling p. 151), or read mu(rod) directly from a chart based upon the initial permability and l/d radio (Snelling p. 152). You will see the same chart at, eg,:

    http://www.magneticsgroup.com/pdf/erods.pdf

To calculate mu(rod) you would have to able to calculate the demagnetization factor. I do not know how to do this. The calculation of mu(rod) is straightforward once the demagnetization factor is known.

Apparently the whole process above is only approximate. If you slide the winding away from the center of the core, then the inductance will decrease.. By how much I do not know. BTW, was this the way in which the coil inductance was adjusted in LW/MW radio sets during intial alignment?

I also vaguely recall reading some work done by W.J. Polydoroff on the inductance of coils with ferrite cores. A paper in 1945, and a book in 1960 come to mind. He took a slightly different approach. In those days the permeability of ferrite was relatively low. I have never compared his approach to Snelling's to see if they give approximately the same results. If I can find the stuff here, I will look a little harder.

73 John KC0G

From 8436657022638556573
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X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!wn12feed!worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
From: You <you@shadow.orgs>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Syncing Up Multiple Magnetrons
Organization: Shadow.orgs
References: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com> <4792cf8b$0$1257$470ef3ce@news.pa.net>
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NNTP-Posting-Date: Sun, 20 Jan 2008 19:12:12 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15128

In article <4792cf8b$0$1257$470ef3ce@news.pa.net>,
hexter@blazenet.net (gudmundur) wrote:

> Multiple mags don't like to 'lock up' very well in pulse duty and
> you surely won't be running any microwave oven mags in cw mode.

Bzzzt, Wrong assumption, would you like to try for what is behind Curtain #2??????

ALL Consumer Microwave Ovens are using CW mode.... just where did you get your idea, that they are pulsed from????? Your a Dufus.....

```
From 8764475102045702166
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X-Google-Attributes: gidfc2a5,gid1109af,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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read2.cgocable.net.POSTED!53ab2750!not-for-mail
From: "Norm VE3CZI" <ve3czi@arrl.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.swap
Subject: FS: Cushman Mobile Radio Application Testing Manuals on CD
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
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EST)
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Organization: Cogeco Cable
Xref: g2news1.google.com rec.radio.amateur.homebrew:15129 rec.radio.swap:18255
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Have Cushman Mobile Radio Testing Applications Manuals that have been SCANNED onto a CD :   (1) Transmitters   (2) Receivers (3) Spectrum Monitor & Tracking Generator.
These Mobile Testing Procedures are based on the CE-50A & CE-5100 Series Monitors, but the methods apply to almost ANY Manufacturers monitor.

I will supply a CD with ALL the Manuals for $25 including mailing OR $10 per CD for each book.

See my other Service Manuals available: Click here for more Service Manuals available

Tnx for looking...Norm VE3CZI   Rodemi (at) cogeco.ca

```
From -7877554571941097170
X-Google-Thread: fc2a5,97a2d4f1eb574bc5
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X-Google-Language: ENGLISH,ASCII-7-bit
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transit3.readnews.com!textspool1.readnews.com!news-out.readnews.com!
postnews3.readnews.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Syncing Up Multiple Magnetrons
From: hexter@blazenet.net (gudmundur)
Reply-To: retxeh@blazenet.net
Organization: Disconnect the dots
X-Newsreader: WinVN 0.99.6
References: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
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Date: 20 Jan 2008 23:00:24 GMT
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X-Complaints-To: abuse@pa.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15130

In article <you-0D71D6.10135220012008@netnews.worldnet.att.net>,
you@shadow.orgs says...
>
>In article <4792cf8b$0$1257$470ef3ce@news.pa.net>,
> hexter@blazenet.net (gudmundur) wrote:
>
>> Multiple mags don't like to 'lock up' very well in pulse duty and
>> you surely won't be running any microwave oven mags in cw mode.
>
>Bzzzt, Wrong assumption, would you like to try for what is behind Curtain
>#2??????
>
>ALL Consumer Microwave Ovens are using CW mode.... just where did you
>get your idea, that they are pulsed from?????  Your a Dufus.....

 Hey dumb ass, they are running from 1/2 wave voltage doubled a.c.
and conduct on only 1/2 of the a.c. cycle. That isn't C.W. by the
definition of C.W. I'd call that a 50% duty cycle output which
is NOT c.w. by intelligent minds.
```

I didn't indictate that they were being pulsed either, I stated that 'pulsed magnetrons' don't like to lock up correctly. That is why in extremely high power radar we no longer use multiple mags, and never really did. Klystrons, klystrodes, and crossed field amplifiers are the norm here. I'll bet my ETC and four gold service stripes I forgot more about mags and waveguides than you ever knew.

The original poster seemed clueless and a danger to himself and others with his experiments. Exactly the kind of guy you should have as your C.E.O. of your 'New and improved c.w. microwave oven' company.

Can't help thinking how much you look like your uncle dad! I don't think you were ever one of my Seaman Recruits. I would have taught you better. (In your words 'learned you gooder') Dufus, yup, I been called worse, it kinda bounces right off my rocker and lands where my crow can crap on it.

```
From -6672440548769641919
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news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Syncing Up Multiple Magnetrons
Date: Sun, 20 Jan 2008 15:06:39 -0800
Organization: albasani.net
Lines: 12
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Xref: g2news1.google.com rec.radio.amateur.homebrew:15131
```

gudmundur wrote:

```
> ...
>  The original poster seemed clueless and a danger to himself and
> others with his experiments. ...

Heck, with a pair of MW RF shielding glasses, tin foil hat and a copper
jockstrap, I'd fire one of those puppies up, in the open, in a
heartbeat!  <ROFLOL>

Regards,
JS



From -8539067793621235474
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feeder1-1.proxad.net!feeder.news-service.com!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Syncing Up Multiple Magnetrons
Date: Sun, 20 Jan 2008 15:27:17 -0800
Organization: albasani.net
Lines: 31
Message-ID: <fn0lcg$fvb$8@news.albasani.net>
References: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:15132

John Smith wrote:
> gudmundur wrote:
>
>> ...
>>  The original poster seemed clueless and a danger to himself and
>> others with his experiments. ...
>
> Heck, with a pair of MW RF shielding glasses, tin foil hat and a copper
> jockstrap, I'd fire one of those puppies up, in the open, in a
> heartbeat!  <ROFLOL>
```

>
> Regards,
> JS

This all reminds me, back in the early 90's I dropped back to college for some refresher courses. Circulating on the net was a picture of supposed NY policemen posing with a microwave oven with a horn antenna attached to the front--looked as if it was constructed of sheet metal.

The article spoke of this "weapon" being used by one neighbor at another apartment neighbor ...

Anyone remember seeing this particular article? I have search the net several times and unable to find it. It may have even been a fraud, but was well done if so.

Anyway, I would get a kick out of seeing it again and making it available for others to view.

Regards,
JS

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From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
Subject: Re: April 1977 QST article
Date: Sun, 20 Jan 2008 20:31:18 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
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X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15133

"Pete KE9OA" <p.gianako@comcast.net> wrote in message news:--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com...
> Hi,
>
> Does anybody have a copy of the April 1977 QST? The article I am

```
> interested in the the one by Howard Sartori, entitled
> "solid tubes, a new life for old designs".
> If somebody could scan this article, I would be glad to pay them. Thanks!
>
> Pete KE9OA
>

I noticed the local library is getting rid of it microfilm copies of
magazines replacing them with CDs. It probably wont be long until illegal
copies of all the ham mags are all over the net.

Jimmie




From 6554126578676533864
X-Google-Thread: fc2a5,97a2d4f1eb574bc5
X-Google-Attributes: gidfc2a5,public,usenet
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From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
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Subject: Re: Syncing Up Multiple Magnetrons
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Date: Sun, 20 Jan 2008 21:17:49 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:15134


"gudmundur" <hexter@blazenet.net> wrote in message
news:4792cf8b$0$1257$470ef3ce@news.pa.net...
> In article
> <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>,
> hcm1955@gmail.com says...
>>
>>Does anyone in the group know anything about magnetrons? I planning to
>>do some experiments in transmitting microwaves.
>>
>>I would like to use standard magnetrons from a microwave oven and
```

>>believe I can beam further if operated at the same frequency and
>>with the outputs in phase. I have no idea on how to do this. Please
>>advise
>>
>>Cheers,
>>Bert
>>
>>
>
> There isn't any hamband for the magnetrons you are likely to get
> your hands on, so it would be illeagal for you to 'beam' anywhere.
> Multiple mags don't like to 'lock up' very well in pulse duty and
> you surely won't be running any microwave oven mags in cw mode.
> How would you verify if your kluge monster was in fact locked
> together? Got any ghz range spectrum analyzers handy? Most mags
> designed to be used in parallel power production have a built
> in injection probe with an SMA or BNC fitting right on the mag.
> So you are going to be beaming, and receiving with what? A spark
> gap? You don't need, and couldn't handle the power of multiple
> magnetrons. You can blow up every solid state device in your workshop
> just by tearing the front door off your microwave oven and jumping
> out the interlocks. Do you realize the body of the magnetron is
> the anode and you will probably electrocute yourself before I can
> find a sound reason for anybody but a genuine rf engineer to try
> putting two magnetrons in phase lock parallel operation? Far longer
> would you live throwing 20 pound propane tanks into a fire and
> see how far they 'beam'.
>
Hi

the inagural issue of Communications Quarterly Magazine ran an
article on phase locking microwave oven magnetrons for ham
use.

Regards

Peter K1ZJH

From 8027388097088586028
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.amateur.equipment,rec.radio.amateur.misc
Subject: Re: RCA Receiving Tube Manual download links
References: <44a74c69-c119-40cf-9ca0-e4103e71187f@q39g2000hsf.googlegroups.com>
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X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15135
rec.radio.amateur.boatanchors:13822 rec.audio.tubes:49335
rec.radio.amateur.equipment:13834 rec.radio.amateur.misc:43119

Toadd6@gmail.com wrote:
> RCA Receiving Tube Manuals
>
> RC-30 1975 edition
> http://rapidshare.com/files/75244077/RC30.pdf.html
>
> RC-26 1968 edition
> http://rapidshare.com/files/85192789/RC26.pdf.html
>
> RC-23 1964 edition
> http://rapidshare.com/files/85190496/RC23.pdf.html
>
> RC-20 1960 edition
> http://rapidshare.com/files/85188444/RC20.pdf.html
>
> RC-18 1956 edition
> http://rapidshare.com/files/85184343/RC18.pdf.html
>
> RC-17 1954 edition
> http://rapidshare.com/files/85194596/RC17.pdf.html
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> RC-16 1950 edition
> http://rapidshare.com/files/85196176/RC16.pdf.html

>
> RC-15 1947 edition
> http://rapidshare.com/files/85197151/RC15.pdf.html

Thanks for making the databooks available, but boy
Rapidshare.com is sure a pain in the a$$!

20 minutes minimum between downloads, and a 2 minute
timer to make sure you sit and stare at the screen before
entering a code you read off of the screen.

Bah!

-Chuck

```
From -4316782237475964958
X-Google-Thread: fc2a5,97a2d4f1eb574bc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!aioe.org!not-for-
mail
From: Steve H <g0lmv@yahoo.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Syncing Up Multiple Magnetrons
Date: Mon, 21 Jan 2008 08:47:57 +0000
Organization: Aioe.org NNTP Server
Lines: 37
Message-ID: <fn1m7p$83u$1@aioe.org>
References: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
<4792cf8b$0$1257$470ef3ce@news.pa.net>
<you-0D71D6.10135220012008@netnews.worldnet.att.net>
<4793d287$0$1198$470ef3ce@news.pa.net> <fn0k5r$fvb$7@news.albasani.net>
<fn0lcg$fvb$8@news.albasani.net>
Reply-To: g0lmv@yahoo.co.uk
NNTP-Posting-Host: hlOQ7v2LZcp9g60bLsOaxA.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
In-Reply-To:
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15136
```

John Smith wrote:
> John Smith wrote:
>> gudmundur wrote:
>>
>>> ...
>>> The original poster seemed clueless and a danger to himself and
>>> others with his experiments. ...
>>

```
>> Heck, with a pair of MW RF shielding glasses, tin foil hat and a
>> copper jockstrap, I'd fire one of those puppies up, in the open, in a
>> heartbeat!  <ROFLOL>
>>
>> Regards,
>> JS
>
> This all reminds me, back in the early 90's I dropped back to college
> for some refresher courses.   Circulating on the net was a picture of
> supposed NY policemen posing with a microwave oven with a horn antenna
> attached to the front--looked as if it was constructed of sheet metal.
>
> The article spoke of this "weapon" being used by one neighbor at another
> apartment neighbor ...
>
> Anyone remember seeing this particular article?  I have search the net
> several times and unable to find it.  It may have even been a fraud, but
> was well done if so.
>
> Anyway, I would get a kick out of seeing it again and making it
> available for others to view.
>
> Regards,
> JS
http://www.metacafe.com/watch/587507/microwave_hack_secret_power/

Could this be a cure for noisy switch mode power supplies??

Steve H


From -2823208930037274822
X-Google-Thread: fc2a5,b97534b2a1062f0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 21 Jan 2008 03:58:38 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <dcadnZsBbpgKgxLanZ2dnUVZ_v2pnZ2d@comcast.com>
<77594df8-783f-40f7-98d1-71b36f619eae@h11g2000prf.googlegroups.com>
Subject: Re: Ferrite loop antenna for LW/MW band
Date: Mon, 21 Jan 2008 03:58:48 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <M4idnZKaWr1T8QnanZ2dnUVZ_hadnZ2d@comcast.com>
Lines: 97
X-Usenet-Provider: http://www.giganews.com
```

NNTP-Posting-Host: 71.239.37.56
X-Trace: sv3-0Si8WwbQyLG2U9QVY5Ljht5twC4W39MTEVxAKM2ZMTBK/
CEilfp74nBVD114oGXtn7lj99GzcFOw22v!cDUJLwOLA1ao0eFHFDA1FnXHuVFqmJWwQrsQKFtd/
e7NQWCnKWFI/gPEMOfIXzJ0g2ZTWP4GP0PQ!l53LmMTqM1TaRL2DyM5qk7sw0Bc1
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15137

Thanks John,

I appreciate the info. I had a couple of databooks/textbooks about this years ago, but of course in my infinite wisdom I gave them away a few years back. I didn't think I would need them!

Pete

<JRCCrabtree@gmail.com> wrote in message
news:77594df8-783f-40f7-98d1-71b36f619eae@h11g2000prf.googlegroups.com...
On Jan 17, 3:23?am, "Pete KE9OA" <p.gian...@comcast.net> wrote:
> Hi,
>
> Is there any kind of program that makes the calculations a bit easier? If
> I
> knew how to do the calculations, I could throw the formula into a
> spreadsheet. What I need to do is calculate the inductance with the
> parameters of cross sectional area, length, position on the ferrite rod,
> number of turns, and permeability of the ferrite material itself.
> I would like to throw these parameters into the spreadsheet/program, and
> let
> the software calculate the inductance for me.
>
> Pete

Hello Pete

AFAIK there is no set of formulae which will do the job for you. What follows comes from E.C. Snelling, "Soft Ferrites: Properties and Applications", 2nd ed, 1988, p 155. Sadly this book's quality is exceeded by it's rarity.

Snelling starts off by saying that the inductance ratio mu(coil), or apparent permeability, of a coil when it has a ferrite core is diffiult to calculate, "since it depends upon on the geometry of the winding and the core and to some extent the core permeability".

Snelling goes on to present a simpler approach which "applies only to centrally placed windings". He starts by assuming that a "magnetically long cylinder" is covered over its whole length. (I do not know if these means that the coil is tight wound or not, or even whether this matters). He then goes on to state that the inductance of the coil is proportional to mu(rod) times the area times the number of turns squared divided by the length of the rod.

He then presents curves based on experimental data, based on coils where the centrally placed winding covered 5-100% of the coil, the initial permeability ranged from 15 to 1000, and the length/diameter ratios of the rod varied from 3 to 18. The results are shown on p. 155. Snelling comments that using the mean curve will produce an error of 12% or less.

The curve plots 10exp09 times L / (A.N.N.mu(rod)), against the fraction of the rod which is covered. The approximate values (fraction of rod covered first) are:

0.1	2.75
0.2	2.25
0.3	2.1
0.4	1.85
0.5	1.7
0.6	1.5
0.7	1.35
0.8	1.15
0.9	1.05
1.0	0.95

Note that you have to calcluate mu(rod), which depends upon the initial permeabilty of the ferrite, and the demagnetization factor. The demagnetization factor depends up the length /diameter ratio, and to some extent the intial permeability of the rod. You can read the demagnetization factor off a chart (Snelling p. 151), or read mu(rod) directly from a chart based upon the initial permability and l/d radio (Snelling p. 152). You will see the same chart at, eg,:

http://www.magneticsgroup.com/pdf/erods.pdf

To calculate mu(rod) you would have to able to calculate the demagnetization factor. I do not know how to do this. The calculation of mu(rod) is straightforward once the demagnetization factor is known.

Apparently the whole process above is only approximate. If you slide the winding away from the center of the core, then the inductance will decrease.. By how much I do not know. BTW, was this the way in which the coil inductance was adjusted in LW/MW radio sets during intial alignment?

I also vaguely recall reading some work done by W.J. Polydoroff on the inductance of coils with ferrite cores. A paper in 1945, and a book in 1960 come to mind. He took a slightly different approach. In those days the permeability of ferrite was relatively low. I have never compared his approach to Snelling's to see if they give approximately the same results. If I can find the stuff here, I will look a little harder.

73 John KC0G

```
From -4335816565149161761
X-Google-Thread: fc2a5,97a2d4f1eb574bc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!wn13feed!
worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
From: You <you@shadow.orgs>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Syncing Up Multiple Magnetrons
Organization: Shadow.orgs
References: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
<4792cf8b$0$1257$470ef3ce@news.pa.net>
<you-0D71D6.10135220012008@netnews.worldnet.att.net>
<4793d287$0$1198$470ef3ce@news.pa.net>
User-Agent: MT-NewsWatcher/3.5.3b2 (PPC Mac OS X)
Message-ID: <you-723A71.09275621012008@netnews.worldnet.att.net>
Lines: 60
Date: Mon, 21 Jan 2008 18:26:26 GMT
NNTP-Posting-Host: 12.12.208.6
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1200939986 12.12.208.6 (Mon, 21 Jan
2008 18:26:26 GMT)
NNTP-Posting-Date: Mon, 21 Jan 2008 18:26:26 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15138

In article <4793d287$0$1198$470ef3ce@news.pa.net>,
 hexter@blazenet.net (gudmundur) wrote:

> In article <you-0D71D6.10135220012008@netnews.worldnet.att.net>,
> you@shadow.orgs says...
> >
> >In article <4792cf8b$0$1257$470ef3ce@news.pa.net>,
> > hexter@blazenet.net (gudmundur) wrote:
> >
> >> Multiple mags don't like to 'lock up' very well in pulse duty and
> >> you surely won't be running any microwave oven mags in cw mode.
> >
> >Bzzzt, Wrong assumption, would you like to try for what is behind Curtain
> >#2??????
> >
> >ALL Consumer Microwave Ovens are using CW mode.... just where did you
> >get your idea, that they are pulsed from?????  Your a Dufus.....
>
>  Hey dumb ass, they are running from 1/2 wave voltage doubled a.c.
> and conduct on only 1/2 of the a.c. cycle. That isn't C.W. by the
> definition of C.W. I'd call that a 50% duty cycle output which
> is NOT c.w. by intelligent minds.
>
```

> I didn't indictate that they were being pulsed either, I stated that 'pulsed magnetrons' don't like to lock up correctly. That is why in extremely high power radar we no longer use multiple mags, and never really did. Klystrons, klystrodes, and crossed field amplifiers are the norm here. I'll bet my ETC and four gold service stripes I forgot more about mags and waveguides than you ever knew.
>
> The original poster seemed clueless and a danger to himself and others with his experiments. Exactly the kind of guy you should have as your C.E.O. of your 'New and improved c.w. microwave oven' company.
>
> Can't help thinking how much you look like your uncle dad! I don't think you were ever one of my Seaman Recruits. I would have taught you better. (In your words 'learned you gooder') Dufus, yup, I been called worse, it kinda bounces right off my rocker and lands where my crow can crap on it.

Ok Smart Guy, just tell us ALL about how CW means that once you turn the RF emitter ON, It must stay ON with 100% duty cycle. Since every HAM Knows that CW doesn't mean 100% Duty Cycle. Where did you get the Idea that the OP would be using the Oven Magnitrons Power Supply, as is, instead of building his own, and running it Full Wave, at 100% Duty Cycle? He doesn't say one way or the other, so your ASSUMPTION is just that, another one of your Flab over Beltline Dufus assumptions. Your explanation is nothing more than Cheap Squid Crap..... that comes from all that Gold Striping that hangs off your sleeve..... Good thing that the Navy keeps you locked up, down in the bilge, and not teaching Young Sculls full of Mush, the basics of High Power RF Generation.

Sonny, you got a lot to learn, best you go back to A School, at NAS Memphis and try again, to get it right...... It is amazing to "Me" that the Blue Canoes, can even find their way out of harbor, if your an example of their ET's, and Radarmen. Fortunately for the rest of us, it would seem that our Navy has some better folks than you running the show........ and have for generations........ by the way...you would lose your bet..... Sonny.....

From -5934293018771942430
X-Google-Thread: fc2a5,86528631f0b2e452
X-Google-Thread: fc8b1,86528631f0b2e452
X-Google-Thread: f4535,86528631f0b2e452
X-Google-Thread: 108122,86528631f0b2e452
X-Google-Thread: 107ada,86528631f0b2e452
X-Google-Attributes: gidfc2a5,gidfc8b1,gidf4535,gid108122,gid107ada,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!wn13feed!worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
From: Bruce in alaska <fast@btpost.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.audio.tubes,rec.radio.amateur.equipment,rec.radio.amateur.misc

Subject: Re: RCA Receiving Tube Manual download links
Organization: Bruce's Trading Post
References: <44a74c69-c119-40cf-9ca0-e4103e71187f@q39g2000hsf.googlegroups.com>
<b5qdnYpBp9G9vQnanZ2dnUVZ_uXinZ2d@rcn.net>
User-Agent: MT-NewsWatcher/3.5.3b2 (PPC Mac OS X)
Message-ID: <fast-60215A.09293521012008@netnews.worldnet.att.net>
Lines: 49
Date: Mon, 21 Jan 2008 18:27:56 GMT
NNTP-Posting-Host: 12.12.208.6
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1200940076 12.12.208.6 (Mon, 21 Jan 2008 18:27:56 GMT)
NNTP-Posting-Date: Mon, 21 Jan 2008 18:27:56 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15139
rec.radio.amateur.boatanchors:13825 rec.audio.tubes:49371
rec.radio.amateur.equipment:13838 rec.radio.amateur.misc:43125

In article <b5qdnYpBp9G9vQnanZ2dnUVZ_uXinZ2d@rcn.net>,
Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote:

> Toadd6@gmail.com wrote:
> > RCA Receiving Tube Manuals
> >
> > RC-30 1975 edition
> > http://rapidshare.com/files/75244077/RC30.pdf.html
> >
> > RC-26 1968 edition
> > http://rapidshare.com/files/85192789/RC26.pdf.html
> >
> > RC-23 1964 edition
> > http://rapidshare.com/files/85190496/RC23.pdf.html
> >
> > RC-20 1960 edition
> > http://rapidshare.com/files/85188444/RC20.pdf.html
> >
> > RC-18 1956 edition
> > http://rapidshare.com/files/85184343/RC18.pdf.html
> >
> > RC-17 1954 edition
> > http://rapidshare.com/files/85194596/RC17.pdf.html
> >
> > RC-16 1950 edition
> > http://rapidshare.com/files/85196176/RC16.pdf.html
> >
> > RC-15 1947 edition
> > http://rapidshare.com/files/85197151/RC15.pdf.html
>
> Thanks for making the databooks available, but boy
> Rapidshare.com is sure a pain in the a$$!
>
> 20 minutes minimum between downloads, and a 2 minute
> timer to make sure you sit and stare at the screen before
> entering a code you read off of the screen.

>
> Bah!
>
> -Chuck

Now if only someone would post the RCA Transmitting Tube Manual
I could get ride of my, very ragged copy, that is Thumbed to death.

Bruce in alaska

--
Bruce in alaska
add <path> after <fast> to reply

From 6293725121006557821
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article
Date: Mon, 21 Jan 2008 20:59:16 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13pan0nludbb8a5@corp.supernews.com>
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<13ov989erjuvec1@corp.supernews.com> <13p0ejh8809ik91@corp.supernews.com>
<13p33e79kken49f@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 24
Xref: g2news1.google.com rec.radio.amateur.homebrew:15141

Hey Michael,

Somehow, it never showed up. Did you send it to my Hotmail or my other one
(with the extra spaces in it)? Could you try it again?

Many thanks,

Dave

"msg" <msg@_cybertheque.org_> wrote in message
news:13p33e79kken49f@corp.supernews.com...
> Dave wrote:
> <snip>
>> I would *love* a copy. My Hotmail address should work, but if it bounces

>> for any reason, try
>> d b e a n e (at) p d q (dot) n e t
>>
>> That one *will* work.
>
> Sent to above yesterday; let me know if you didn't get it.
>
> Michael

From 8944678020058244977
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!newsfeed.gamma.ru!Gamma.RU!sn-xt-sjc-03!sn-xt-sjc-08!sn-xt-sjc-01!
sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article
Date: Mon, 21 Jan 2008 21:24:07 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13paoeh1du1bqa7@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<13ov989erjuvec1@corp.supernews.com> <13p0ejh8809ik91@corp.supernews.com>
<13p33e79kken49f@corp.supernews.com> <13pan0nludbb8a5@corp.supernews.com>
In-Reply-To: <13pan0nludbb8a5@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 10
Xref: g2news1.google.com rec.radio.amateur.homebrew:15142

Dave wrote:

> Hey Michael,
>
> Somehow, it never showed up. Did you send it to my Hotmail or my other one
> (with the extra spaces in it)? Could you try it again?

Second attempt to pdq _dot_ net made; let me know if it doesn't arrive.

Michael

From 2981478266308069848
X-Google-Thread: fcc6e,1a112b9d1acdbe57,start

X-Google-Thread: 108122,1a112b9d1acdbe57,start
X-Google-Thread: fc2a5,1a112b9d1acdbe57,start
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder3.cambrium.nl!feed.tweaknews.nl!newsfeed0.kamp.net!newsfeed.kamp.net!newsfeed.freenet.de!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Broke down and bought one ...
Date: Tue, 22 Jan 2008 00:47:34 -0800
Organization: albasani.net
Lines: 8
Message-ID: <fn4aiu$opl$1@news.albasani.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
8PyvY41K28vZ+n4rEsosKEwVg5S39Z2f0qFstM5736f1IHzdFSH8Ij3B2CF0VIOWKqq71pdUxmuyxoyGmx
6Z9G/ZAL8TthAzBHX8p5KtLuG5Uat/+tM5GoV2tM9eVZCp
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Tue, 22 Jan 2008 08:47:26 +0000 (UTC)
X-User-ID: 0137XGkY+NWbF4LYEquxh/nxFAj/ozRHwiVJ0iSpQJI=
Cancel-Lock: sha1:ZR/bxJTvecwVptphJ38NZ0jkAJ4=
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
X-NNTP-Posting-Host: klUnhMzhogHeZn2TxmJyeVxKa9Wd20OPGjcu+FfNNbo=
Xref: g2news1.google.com rec.radio.amateur.antenna:53782
rec.radio.amateur.equipment:13847 rec.radio.amateur.homebrew:15143

After varying success with homebrew SDRs' (software defined radios) built on PCI breadboards stuck into old PCs', I made the jump into a commercial one--bit "pricey" though--a little under five grand for the Flex-5000C ... I am as anxious as a kid waiting his order from the back of a comic book! (they still do that, don't they?) :-)

Regards,
JS

From 7592401338043046582
X-Google-Thread: fcc6e,1a112b9d1acdbe57
X-Google-Thread: 108122,1a112b9d1acdbe57
X-Google-Thread: fc2a5,1a112b9d1acdbe57
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!feeder.news-service.com!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Broke down and bought one ...
Date: Tue, 22 Jan 2008 00:52:54 -0800

```
Organization: albasani.net
Lines: 16
Message-ID: <fn4asu$opl$2@news.albasani.net>
References: <fn4aiu$opl$1@news.albasani.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net y8omEgF3qCWqarouEyieDDENh/80YkcooY6g+qx7/6COac/
Rg4efbbQno3QOb4kDay5BcxbMPvYGGDR3nDj0FQ5GucDpUOzftOSQBJ1AyJ4VipygVuTofE7p1zsMKGV9
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Tue, 22 Jan 2008 08:52:46 +0000 (UTC)
X-User-ID: sCul7M2oqXyPjrurghlFVw3/9ofySIAAk/9j5g8Qygs=
In-Reply-To: <fn4aiu$opl$1@news.albasani.net>
Cancel-Lock: sha1:wBJt23KI4FEZG1Wj7wuk/IwcNvE=
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
X-NNTP-Posting-Host: zaFPhlApOjr4mY6KOeoBMrt0uBm0K4Yd75t/9IO3GCM=
Xref: g2news1.google.com rec.radio.amateur.antenna:53783
rec.radio.amateur.equipment:13848 rec.radio.amateur.homebrew:15144

John Smith wrote:
> After varying success with homebrew SDRs' (software defined radios)
> built on PCI breadboards stuck into old PCs', I made the jump into a
> commercial one--bit "pricey" though--a little under five grand for the
> Flex-5000C ... I am as anxious as a kid waiting his order from the back
> of a comic book! (they still do that, don't they?)  :-)
>
> Regards,
> JS

Forgot to include the URL, in case anyone else is interested:

http://www.flex-radio.com/Products.aspx?topic=f5k_features

Regards,
JS


From 8566547580139322999
X-Google-Thread: fc2a5,5ef399d8dfddde59,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e6g2000prf.googlegroups.com!not-for-
mail
From: "stella.is.rani@gmail.com" <stella.is.rani@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: advanced technology in your construction
Date: Tue, 22 Jan 2008 08:58:32 -0800 (PST)
Organization: http://groups.google.com
Lines: 9
Message-ID: <00e3b9ca-d527-4fe0-9479-d2ba148b1cfb@e6g2000prf.googlegroups.com>
NNTP-Posting-Host: 122.164.232.106
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
```

```
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1201021113 18964 127.0.0.1 (22 Jan 2008 16:58:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 22 Jan 2008 16:58:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e6g2000prf.googlegroups.com; posting-host=122.164.232.106;
     posting-account=XKPfqgoAAADFieLRYHCStMF8KF0qyi9D
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
     SV1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15145

advanced technology in your construction

details and more information get together

...............................................................
http://padmagirl.blogspot.com
...............................................................

with best wishes


From -8011663954845075212
X-Google-Thread: fc2a5,86528631f0b2e452
X-Google-Thread: fc8b1,86528631f0b2e452
X-Google-Thread: f4535,86528631f0b2e452
X-Google-Thread: 108122,86528631f0b2e452
X-Google-Thread: 107ada,86528631f0b2e452
X-Google-Attributes: gidfc2a5,gidfc8b1,gidf4535,gid108122,gid107ada,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!wn12feed!
worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
From: Bruce in alaska <fast@btpost.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.audio.tubes,rec.radio
.amateur.equipment,rec.radio.amateur.misc
Subject: Re: RCA Receiving Tube Manual download links
Organization: Bruce's Trading Post
References: <44a74c69-c119-40cf-9ca0-e4103e71187f@q39g2000hsf.googlegroups.com>
<b5qdnYpBp9G9vQnanZ2dnUVZ_uXinZ2d@rcn.net>
<fast-60215A.09293521012008@netnews.worldnet.att.net>
<i8s9p3tl1fi4mjkos5i363gssrutjbh9m2@4ax.com>
User-Agent: MT-NewsWatcher/3.5.3b2 (PPC Mac OS X)
Message-ID: <fast-273D61.10143922012008@netnews.worldnet.att.net>
Lines: 17
Date: Tue, 22 Jan 2008 19:13:05 GMT
NNTP-Posting-Host: 12.12.208.47
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1201029185 12.12.208.47 (Tue, 22 Jan
2008 19:13:05 GMT)
NNTP-Posting-Date: Tue, 22 Jan 2008 19:13:05 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15146
```

```
rec.radio.amateur.boatanchors:13834 rec.audio.tubes:49477
rec.radio.amateur.equipment:13850 rec.radio.amateur.misc:43129

In article <i8s9p3tl1fi4mjkos5i363gssrutjbh9m2@4ax.com>,
 flipper <flipper@fish.net> wrote:

> >Now if only someone would post the RCA Transmitting Tube Manual
> >I could get ride of my, very ragged copy, that is Thumbed to death.
> >
> >Bruce in alaska
>
> 1938 and 1956 editions here
>
> http://www.pmillett.com/tube_data.htm

thanks a lot...I appreciate the Link....

--
Bruce in alaska
add <path> after <fast> to reply


From 6814003322417439691
X-Google-Thread: 108122,1a112b9d1acdbe57
X-Google-Thread: fc2a5,1a112b9d1acdbe57
X-Google-Attributes: gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe23.lga.POSTED!53ab2750!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <fn4aiu$opl$1@news.albasani.net> <fn4asu$opl$2@news.albasani.net>
Subject: Re: Broke down and bought one ...
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <j8tlj.25640$3b7.19684@newsfe23.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe23.lga 1201036943 72.209.25.33 (Tue, 22 Jan 2008 14:22:23 MST)
NNTP-Posting-Date: Tue, 22 Jan 2008 14:22:23 MST
Organization: Cox
Date: Tue, 22 Jan 2008 16:22:22 -0500
Xref: g2news1.google.com rec.radio.amateur.equipment:13851
rec.radio.amateur.homebrew:15147


"John Smith" <assemblywizard@gmail.com> wrote in message
news:fn4asu$opl$2@news.albasani.net...
> John Smith wrote:
```

>> After varying success with homebrew SDRs' (software defined radios) built
>> on PCI breadboards stuck into old PCs', I made the jump into a commercial
>> one--bit "pricey" though--a little under five grand for the Flex-5000C
>> ... I am as anxious as a kid waiting his order from the back of a comic
>> book! (they still do that, don't they?) :-)
>>
>> Regards,

Too rich for my pockets, but the specs are eye openers!! Let us know
how it plays!

From 221943023754885626
X-Google-Thread: fc2a5,97a2d4f1eb574bc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out01a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!news-
out.readnews.com!postnews3.readnews.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Syncing Up Multiple Magnetrons
From: hexter@blazenet.net (gudmundur)
Reply-To: retxeh@blazenet.net
Organization: Disconnect the dots
X-Newsreader: WinVN 0.99.6
References: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
MIME-Version: 1.0
Content-Type: Text/Plain; charset=US-ASCII
Date: 22 Jan 2008 22:06:30 GMT
Lines: 39
Message-ID: <479668e5$0$1251$470ef3ce@news.pa.net>
NNTP-Posting-Host: 6ea9c5f3.news.pa.net
X-Trace: DXC=F3@[3n;k6OZ9`]cJ8Ti<0_9B5=CnbAAlZLCdUOI1WA]RO_g@5l9jUi[fo=;E3<bXAU
X-Complaints-To: abuse@pa.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15148

In article <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>,
hcm1955@gmail.com says...
>
>Does anyone in the group know anything about magnetrons? I planning to
>do some experiments in transmitting microwaves.
>
>I would like to use standard magnetrons from a microwave oven and
>believe I can beam further if operated at the same frequency and
>with the outputs in phase. I have no idea on how to do this. Please
>advise
>
>Cheers,
>Bert
>

Kind of a strange side note to the syncing issue,
There are commercial microwave ovens that use 2 magnetrons. These ovens are usually in food courts of large business offices or factories. They are 220vac powered of course. Since a single mag oven produces power only on a small portion of one half of an a.c. line cycle they did a neat trick in the twin mag ovens and switched the line connections to one power transformer. (the ovens have two complete and separate h.v. supplies) So one mag makes power on the positive half of the line cycle and the other makes power on the negative half of the line cycle. Strangely enough I have run into several units having the same 'in phase' line connection (by accident or tampering I guess) and they still work fine. Both mags tightly coupled to the cavity producing power at the same time on the same half of the line cycle. Talk about injection locking!!! 2 mags looking right at each other, and I have not found their service life to be any shorter but they take longer to pop popcorn. Probably several reasons for that, but a differance you can see and measure with a watch. Just by switching the primary transformer leads back to the 'normal' out of phase condition popcorn gets done faster.

From -1965378930432872531
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!feeder2-2.proxad.net!62.253.162.218.MISMATCH!news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!sn-xt-sjc-02!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article
Date: Tue, 22 Jan 2008 16:42:28 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13pcsau839pfn53@corp.supernews.com>
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com> <13ov989erjuvec1@corp.supernews.com> <13p0ejh8809ik91@corp.supernews.com> <13p33e79kken49f@corp.supernews.com> <13pan0nludbb8a5@corp.supernews.com> <13paoeh1du1bqa7@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 18
Xref: g2news1.google.com rec.radio.amateur.homebrew:15149

GOT IT! Thank you, so much.

Dave

"msg" <msg@_cybertheque.org_> wrote in message
news:13paoeh1du1bqa7@corp.supernews.com...
> Dave wrote:
>
>> Hey Michael,
>>
>> Somehow, it never showed up. Did you send it to my Hotmail or my other
>> one (with the extra spaces in it)? Could you try it again?
>
> Second attempt to pdq _dot_ net made; let me know if it doesn't arrive.
>
> Michael

From -4249370172796982126
X-Google-Thread: fc2a5,23dd3efb0b27667,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 6146 data
Date: Tue, 22 Jan 2008 21:18:48 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 6
Message-ID: <4796a402$0$22578$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 75.191.181.199
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15151

I am trying to build a class AB linear amp usig a 6146, plate voltage will be about 600 volts. What's the peak drive voltage for this configuration.

Jimmie

From -7820202264304208216

X-Google-Thread: 108122,1a112b9d1acdbe57
X-Google-Thread: fc2a5,1a112b9d1acdbe57
X-Google-Attributes: gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!nuzba.szn.dk!pnx.dk!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Broke down and bought one ...
Date: Tue, 22 Jan 2008 18:21:09 -0800
Organization: albasani.net
Lines: 21
Message-ID: <fn68ak$31n$2@news.albasani.net>
References: <fn4aiu$opl$1@news.albasani.net> <fn4asu$opl$2@news.albasani.net> <j8tlj.25640$3b7.19684@newsfe23.lga>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net qX9tNSIk0HA/ACuk+ZRtOnG9YTZbnpnP0F09fKzzNys5l+AzjnocRJZVwgiben0HuhDGI1kGIaQpsl4AMoyFiXjkspU7mueN3f4j9VAFsA9vy3CC0khyEokZmffegKFS
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Wed, 23 Jan 2008 02:21:08 +0000 (UTC)
X-User-ID: 2Pj2PCWJ/CqmLbblEKX+1wFNAFtecTyxMTiXDC6dDLs=
In-Reply-To: <j8tlj.25640$3b7.19684@newsfe23.lga>
Cancel-Lock: sha1:ivW2ZRYhMvS7en5CUfzSrSk8AGk=
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
X-NNTP-Posting-Host: B7rPtBFHLz2JiqraSY4PoPpLOM2esNNqrLg7qSlELdI=
Xref: g2news1.google.com rec.radio.amateur.equipment:13853 rec.radio.amateur.homebrew:15152

Tio Pedro wrote:

> ...
> Too rich for my pockets, but the specs are eye openers!! Let us know
> how it plays!
>
>
>

I picked up an extra contract which only took a portion of the man hours
I had alloted--the wife needed a new car, this made that possible--got
that for her, she said, "I feel guilty, what would you like?"
MUHAHAHAHAHAHA!!!!

The rest is history ... I have downloaded the manual offline and will be
ready to put it to work as soon as I have it from the box!

Will let 'ya know!

Regards,
JS

From -9067594388226180317
X-Google-Thread: fc2a5,23dd3efb0b27667
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <4796a402$0$22578$4c368faf@roadrunner.com>
Subject: Re: 6146 data
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <XRxlj.311911$Fc.250450@attbi_s21>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1201056247 12.219.135.201 (Wed, 23 Jan 2008 02:44:07 GMT)
NNTP-Posting-Date: Wed, 23 Jan 2008 02:44:07 GMT
Organization: AT&T ASP.att.net
Date: Wed, 23 Jan 2008 02:44:07 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15153

"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
news:4796a402$0$22578$4c368faf@roadrunner.com...
>I am trying to build a class AB linear amp usig a 6146, plate voltage will
>be about 600 volts. What's the peak drive voltage for this configuration.
>
> Jimmie

About one Volt less than the DC bias on the grid.

W4ZCB
>

From -726532813412105293
X-Google-Thread: fc2a5,b97534b2a1062f0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out03a.usenetserver.com!news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!in03.usenetserver.com!news.usenetserver.com!pc02.usenetserver.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew

References: <dcadnZsBbpgKgxLanZ2dnUVZ_v2pnZ2d@comcast.com>
Subject: Re: Ferrite loop antenna for LW/MW band
Date: Wed, 23 Jan 2008 09:14:27 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <1f182$479758aa$18d6b40c$6746@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 27
X-Trace: 1f182479758aabd7311a906746
Xref: g2news1.google.com rec.radio.amateur.homebrew:15154

"Pete KE9OA" <p.gianako@comcast.net> wrote in message
news:dcadnZsBbpgKgxLanZ2dnUVZ_v2pnZ2d@comcast.com...
> Hi,
>
> Is there any kind of program that makes the calculations a bit easier? If
> I knew how to do the calculations, I could throw the formula into a
> spreadsheet. What I need to do is calculate the inductance with the
> parameters of cross sectional area, length, position on the ferrite rod,
> number of turns, and permeability of the ferrite material itself.
> I would like to throw these parameters into the spreadsheet/program, and
> let the software calculate the inductance for me.
>
> Pete

Here's a great site with detailed info about ferrite rods.
http://www.bentongue.com/xtalset/29MxQFL/29MxQFL.html

Here's a long list of articles by the same author.
http://www.bentongue.com/xtalset/xtalset.html

The home page of all the above.
http://www.bentongue.com/

Mike

From 7360287991002913112
X-Google-Thread: fc2a5,e40292fd220ae8c,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
i3g2000hsf.googlegroups.com!not-for-mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 23cm / 1.3GHz FM ATV "bare bones" modules

```
Date: Wed, 23 Jan 2008 09:49:21 -0800 (PST)
Organization: http://groups.google.com
Lines: 16
Message-ID: <9e94ed16-92d1-440e-a2a4-086c4253bab4@i3g2000hsf.googlegroups.com>
NNTP-Posting-Host: 222.154.154.218
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1201110561 16322 127.0.0.1 (23 Jan 2008 17:49:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 23 Jan 2008 17:49:21 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i3g2000hsf.googlegroups.com; posting-host=222.154.154.218;
     posting-account=TfKoOgkAAABQzW2yM8tZrYe8S04m-wqP
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15155

Hi Guys,

Anyone know where I can buy the 50mW TX and RX modules - I believe
they are controlled using I2C.

I don't need the external uP and PCB - just the modules themselves.

The modules are around 1.5 x 2", housed in a tin box with feedthroughs
for signal and control. RF is on an SMA.

Manufacturers name and model number would also be very useful to help
with an eBay search...

Many thanks,

Mark


From 3553492256966637027
X-Google-Thread: fcc6e,1a112b9d1acdbe57
X-Google-Thread: 108122,1a112b9d1acdbe57
X-Google-Thread: fc2a5,1a112b9d1acdbe57
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 23 Jan 2008 12:41:00 -0600
From: Jerseyj <jerseyj69@comcast.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Broke down and bought one ...
References: <fn4aiu$opl$1@news.albasani.net>
User-Agent: MT-NewsWatcher/3.5.2 (Intel Mac OS X)
```

```
Date: Wed, 23 Jan 2008 13:41:01 -0500
Message-ID: <jerseyj69-DBA080.13410123012008@newsgroups.comcast.net>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 68.38.21.122
X-Trace: sv3-
pnkB+JpbLJ9sfv1s1ARTwiomlxwtvbcDoajxTr3hOGf5a812OH7YwVkSAGm0yd0iv94UmeD6m4WttcJ!
towU4YtJKdQ8yYd1/igIpwV/+vb7TzXyjA2SshLPI4/eE5NO8GbH1I9F9Td0hM7q/bAomb22a6fh!fV9I/
2KtkGDePdjwaCErUMlNN9iqjRjfjEnlwiGnTg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.antenna:53862
rec.radio.amateur.equipment:13856 rec.radio.amateur.homebrew:15156

In article <fn4aiu$opl$1@news.albasani.net>,
 John Smith <assemblywizard@gmail.com> wrote:

> After varying success with homebrew SDRs' (software defined radios)
> built on PCI breadboards stuck into old PCs', I made the jump into a
> commercial one--bit "pricey" though--a little under five grand for the
> Flex-5000C ... I am as anxious as a kid waiting his order from the back
> of a comic book! (they still do that, don't they?)  :-)
>
> Regards,
> JS

Mmmmm...given how long I own my radios, and given how quickly pc
hardware improves, I'd probably go for the model that doesn't include
the integrated PC.

Jerry


From -5141977481605959899
X-Google-Thread: fcc6e,1a112b9d1acdbe57
X-Google-Thread: 108122,1a112b9d1acdbe57
X-Google-Thread: fc2a5,1a112b9d1acdbe57
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!newsfeed01.sul.t-
online.de!newsfeed00.sul.t-online.de!t-online.de!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Broke down and bought one ...
Date: Wed, 23 Jan 2008 10:55:58 -0800
Organization: albasani.net
Lines: 27
Message-ID: <fn82jr$sls$1@news.albasani.net>
```

References: <fn4aiu$opl$1@news.albasani.net> <jerseyj69-DBA080.13410123012008@newsgroups.comcast.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
baqpDw2n+uoTPOBe5GPe7OqvPhRuYOaYaOybyBpb2LQsI2M3fyqBIgJzmFHKQWgrrkc4VhMjIEaQwjxZ/pXfoPhk6kEC9Mp8EDLJvH1lS4ChhR6K+eIJpKaDFyEPUWDH
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Wed, 23 Jan 2008 18:55:56 +0000 (UTC)
X-User-ID: IJ40Q6f8sWjqyDfNgMShriO6jtDsmSlmclqy/0/WfYc=
In-Reply-To: <jerseyj69-DBA080.13410123012008@newsgroups.comcast.net>
Cancel-Lock: sha1:tS4TKpAc0MPYERSFVFcC65Qs00U=
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
X-NNTP-Posting-Host: tO/QXwstlcUMKqEBQCtOvU+Seg4ebe70fh7cV/QJdMs=
Xref: g2news1.google.com rec.radio.amateur.antenna:53867
rec.radio.amateur.equipment:13857 rec.radio.amateur.homebrew:15157

Jerseyj wrote:

> ...
> Mmmmm...given how long I own my radios, and given how quickly pc
> hardware improves, I'd probably go for the model that doesn't include
> the integrated PC.
>
> Jerry

The firmware is upgradeable, they promise to allow you access to any new versions of the SDR software.

The CPU is an intel dual core; Just how much processing power do you need to run a radio? But then, you can cruise the web on this "radio!", run other apps (think EZNEC here), etc.

Also, if you need to control it remotely, you can still do so from another computer via firewire (say put the transceiver in your trunk and run it from a laptop in your passenger compartment), LAN, or WAN--wireless-ly. Indeed, you can control this rig from anywhere in the world using VOIP!

Personally, I thought it time to buy. Will certainly beat anything I can homebrew here ... your mileage may vary.

Regards,
JS

From -2594681863576005682
X-Google-Thread: fc2a5,e68c31b5ed9530fb
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!

```
cyclone1.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny01.POSTED!558de96f!
not-for-mail
From: Big Rich Soprano <BucSoprano@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio reception gone wacky
Organization: None at All!
Reply-To: Thin Air
Message-ID: <0rafp31unb82ok2ehh8i1ut14fjk0jfk19@4ax.com>
References: <1185856450.439238.276460@m37g2000prh.googlegroups.com>
<1185896572.157375.200350@z28g2000prd.googlegroups.com>
X-Newsreader: Forte Agent 2.0/32.652
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 6
Date: Wed, 23 Jan 2008 21:01:55 GMT
NNTP-Posting-Host: 151.205.234.240
X-Complaints-To: abuse@verizon.net
X-Trace: trndny01 1201122115 151.205.234.240 (Wed, 23 Jan 2008 16:01:55 EST)
NNTP-Posting-Date: Wed, 23 Jan 2008 16:01:55 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:15158
X-Original-Bytes: 1160

>Perhaps this is what's causing your problem?


No that's not it at all. I live in Lebanon, Pa and the local radio
station hijacks my shortwave rcvr in FM mode all the time. More watts
means more listeners!


From -6961238037219473159
X-Google-Thread: fc2a5,5e57ebd85cdfee25,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l32g2000hse.googlegroups.com!not-for-
mail
From: jblandrum@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Good reading on radio modifications/building
Date: Wed, 23 Jan 2008 20:10:01 -0800 (PST)
Organization: http://groups.google.com
Lines: 9
Message-ID: <3ab8579a-b03a-4234-8552-52ac8a990f86@l32g2000hse.googlegroups.com>
NNTP-Posting-Host: 24.181.54.118
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1201147806 31400 127.0.0.1 (24 Jan 2008 04:10:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 24 Jan 2008 04:10:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l32g2000hse.googlegroups.com; posting-host=24.181.54.118;
```

posting-account=stAIqwoAAABN4ebbxCe_FIdYivtWVdTI
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.2; en-US; rv:1.8.1.11;
.NET CLR 2.0.50727) Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15159

I'm curious about how I might modify say my Aviation Radio (my hand
held spare I keep in case of lost electric in an aircraft). To pick up
amateur bands as well as the Aviation bands.

I'm not interested in the slightest as to whether or not this is
legal, I'm simply looking for educational purposes.
I wanted to get one and then I became curious ... as to how difficult
it would be or how it would be done, what kind of reading I would do
if I wanted to build/modify any radio etc.

From 364010766249599624
X-Google-Thread: fc2a5,5e57ebd85cdfee25
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 24 Jan 2008 05:59:02 -0600
Date: Thu, 24 Jan 2008 11:59:01 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Good reading on radio modifications/building
References: <3ab8579a-b03a-4234-8552-52ac8a990f86@l32g2000hse.googlegroups.com>
In-Reply-To: <3ab8579a-b03a-4234-8552-52ac8a990f86@l32g2000hse.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <tvidnVIowdIb4AXanZ2dnUVZ_vWtnZ2d@bright.net>
Lines: 27
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
EkXZMNwDyGIHx5OxLZi73RMN87zSA52iviSzdWXORSFwwD1s66pztvDJOIiNYSLjWBQQV1UEjF/TF+T!
OViniwDSlsSj7B0dUMoXlKDo4/NUhMa0YK0QWZ1IpbcnCGwi4K0FW2L0HXZWoRP4Q3vljy5OT1xC!
ajvQKPXzWA==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15160

Well, Yaesu USED to make a handheld aviation/2M radio, but they don't
anymore. I believe it was a model VXA-xxx (can't remember what number
the x's were). Might look on ebay.

One problem you'll have is aviation band is AM and the 2M ham stuff is
generally FM, so you'd need to build an FM detector. Not sure if you
could "hack" the microprocessor to tune up to the 2M band...

Scott

jblandrum@gmail.com wrote:
> I'm curious about how I might modify say my Aviation Radio (my hand
> held spare I keep in case of lost electric in an aircraft). To pick up
> amateur bands as well as the Aviation bands.
>
> I'm not interested in the slightest as to whether or not this is
> legal, I'm simply looking for educational purposes.
> I wanted to get one and then I became curious ... as to how difficult
> it would be or how it would be done, what kind of reading I would do
> if I wanted to build/modify any radio etc.

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

From 7138557485458017606
X-Google-Thread: fc2a5,5e57ebd85cdfee25
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 24 Jan 2008 06:07:01 -0600
From: Edward Feustel <efeustel@hughes.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Good reading on radio modifications/building
Date: Thu, 24 Jan 2008 07:06:38 -0500
Message-ID: <rdvgp3tpqroibdcb4pnluoprj4165igd92@4ax.com>
References: <3ab8579a-b03a-4234-8552-52ac8a990f86@l32g2000hse.googlegroups.com>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 28
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-xbflu4LlZA79Cjs414tTN4rCidflSslk/IbemE2EQZmzjDfflbQn/4xSCbl3gl/
70jWbTmZhw/qPaE1!P1ir32Xl6IW/
1pqeyNn7NuC8z+R9zkGQ0xdYWRdjxbpABQuKY3dBo+kAgxtJogc3y2G4QQ==

X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15161

On Wed, 23 Jan 2008 20:10:01 -0800 (PST), jblandrum@gmail.com wrote:

>I'm curious about how I might modify say my Aviation Radio (my hand held spare I keep in case of lost electric in an aircraft). To pick up amateur bands as well as the Aviation bands.
>
>I'm not interested in the slightest as to whether or not this is legal, I'm simply looking for educational purposes.
>I wanted to get one and then I became curious ... as to how difficult it would be or how it would be done, what kind of reading I would do if I wanted to build/modify any radio etc.

As I understand it, aviation radios use frequency modulation. If you are interested in the vhf or uhf amateur transmissions, then you can build a simple converter in which the portions of the bands you are interested can be converted to be presented in the aviation bands.

Your best bets for dealing with other modulation modes such as cw and ssb is to either buy an older transceiver or shortwave receiver with beat frequency oscillator (or ssb reception). Alternatively you can get a receiver kit or build a simple regenerative receiver.

In both cases, an investment in the ARRL's Amateur Radio Handbook is advisable. An edition after about 1990 (they are done yearly) would be appropriate.
73,
Ed, N5EI

From 4769652485127244234
X-Google-Thread: fc2a5,5e57ebd85cdfee25
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out01a.usenetserver.com!news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!in03.usenetserver.com!news.usenetserver.com!news-out.readnews.com!postnews3.readnews.com!news.coretel.net!not-for-mail
From: "radiosrfun" <radiosrfun@radiosrfun.com>
Newsgroups: rec.radio.amateur.homebrew
References: <3ab8579a-b03a-4234-8552-52ac8a990f86@l32g2000hse.googlegroups.com> <rdvgp3tpqroibdcb4pnluoprj4165igd92@4ax.com>
Subject: Re: Good reading on radio modifications/building
Date: Thu, 24 Jan 2008 08:36:44 -0500
X-Priority: 3

```
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 34
Message-ID: <47989465$0$1218$ecde5a14@news.coretel.net>
Organization: CoreTel
NNTP-Posting-Host: 8c1e144b.news.coretel.net
X-Trace:
DXC=l=XM\GThkgNZb6YZ==DJ6DcYX6N<OEXQKSbQB[=8F7YG[3X_DYPRRmMch9VgLRNDdFW<P:297d4AA
X-Complaints-To: abuse@coretel.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:15162

"Edward Feustel" <efeustel@hughes.net> wrote in message
news:rdvgp3tpqroibdcb4pnluoprj4165igd92@4ax.com...
> On Wed, 23 Jan 2008 20:10:01 -0800 (PST), jblandrum@gmail.com wrote:
>
>>I'm curious about how I might modify say my Aviation Radio (my hand
>>held spare I keep in case of lost electric in an aircraft). To pick up
>>amateur bands as well as the Aviation bands.
>>
>>I'm not interested in the slightest as to whether or not this is
>>legal, I'm simply looking for educational purposes.
>>I wanted to get one and then I became curious ... as to how difficult
>>it would be or how it would be done, what kind of reading I would do
>>if I wanted to build/modify any radio etc.
>
> As I understand it, aviation radios use frequency modulation.
> If you are interested in the vhf or uhf amateur transmissions,
> then you can build a simple converter in which the portions of
> the bands you are interested can be converted to be presented
> in the aviation bands.
>
> Your best bets for dealing with other modulation modes such as cw and
> ssb is to either buy an older transceiver or shortwave receiver with
> beat frequency oscillator (or ssb reception). Alternatively you can
> get a receiver kit or build a simple regenerative receiver.
>
> In both cases, an investment in the ARRL's Amateur Radio Handbook
> is advisable.  An edition after about 1990 (they are done yearly)
> would be appropriate.
> 73,
> Ed, N5EI

Aviation uses "AM" - Amplitude Modulation




From 3016527502571438815
X-Google-Thread: fc2a5,5e57ebd85cdfee25
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
```

Path: g2news1.google.com!postnews.google.com!v46g2000hsv.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Good reading on radio modifications/building
Date: Thu, 24 Jan 2008 05:50:43 -0800 (PST)
Organization: http://groups.google.com
Lines: 25
Message-ID: <20f8deac-ac8f-48b3-ab96-ee14b38266c5@v46g2000hsv.googlegroups.com>
References: <3ab8579a-b03a-4234-8552-52ac8a990f86@l32g2000hse.googlegroups.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1201182644 32654 127.0.0.1 (24 Jan 2008 13:50:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 24 Jan 2008 13:50:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v46g2000hsv.googlegroups.com; posting-host=170.121.15.35;
posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15163

On Jan 23, 11:10=A0pm, jbland...@gmail.com wrote:

> I'm curious about how I might modify say my Aviation Radio (my hand
> held spare I keep in case of lost electric in an aircraft). To pick up
> amateur bands as well as the Aviation bands.
>
> I'm not interested in the slightest as to whether or not this is
> legal, I'm simply looking for educational purposes.
> I wanted to get one and then I became curious ... as to how difficult
> it would be or how it would be done, what kind of reading I would do
> if I wanted to build/modify any radio etc.

Aviation radios are 117-138 MHz AM modulation. You can either cut some diodes in the PLL to move them to 2M (144 MHz) or put in new crystals to move them to 2M. But... there isn't much AM activity on 2M (no insult intended for the AM diehards, I appreciate their efforts) it's almost all FM and you won't be happy. AM demodulators kinda sorta will demodulate some FM signals legibly but you won't have the fine-tuning controls you'd need to do a good job.

All the HF bands will use predominately CW or SSB or other digital modes that are not demodulated well by an AM receiver. While there is some AM activity there too, your aviation receiver's front end would never let you receive on the HF bands.

Tim N3QE

From 6303616540888881439

X-Google-Thread: fc2a5,e40292fd220ae8c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!feeder.news-service.com!border1.nntp.ams.giganews.com!
nntp.giganews.com!amsnews11.chello.com!news.chello.nl.POSTED!not-for-mail
Date: Thu, 24 Jan 2008 17:57:09 +0100
From: Sjoerd <pe2svn@gEEmail.com>
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 23cm / 1.3GHz FM ATV "bare bones" modules
References: <9e94ed16-92d1-440e-a2a4-086c4253bab4@i3g2000hsf.googlegroups.com>
In-Reply-To: <9e94ed16-92d1-440e-a2a4-086c4253bab4@i3g2000hsf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 080123-2, 23-01-2008), Outbound message
X-Antivirus-Status: Clean
Message-ID: <d07c4$4798c373$4df9bb2c$7134@news.chello.nl>
X-Complaints-To: abuse@chello.nl
Organization: chello.nl
Lines: 27
NNTP-Posting-Host: 77.249.187.44 (77.249.187.44)
NNTP-Posting-Date: Thu, 24 Jan 2008 17:57:23 +0100
X-Trace: d07c44798c373e85c1e8907134
Xref: g2news1.google.com rec.radio.amateur.homebrew:15164

MarkAren schreef:
> Hi Guys,
>
> Anyone know where I can buy the 50mW TX and RX modules - I believe
> they are controlled using I2C.
>
> I don't need the external uP and PCB - just the modules themselves.
>
> The modules are around 1.5 x 2", housed in a tin box with feedthroughs
> for signal and control. RF is on an SMA.
>
> Manufacturers name and model number would also be very useful to help
> with an eBay search...
>
> Many thanks,
>
> Mark

It is in German, but it might help you...

http://www.lechner-cctv.de/artikel_uebersicht.php?
KAT=95&LANG=EN&mwdSID=j35vc9g2jl3a7s523boofplks3

Good luck,

Sjoerd

```
From -9304922033335932891
X-Google-Thread: fc2a5,e40292fd220ae8c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
1g2000hsl.googlegroups.com!not-for-mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 23cm / 1.3GHz FM ATV "bare bones" modules
Date: Thu, 24 Jan 2008 10:08:40 -0800 (PST)
Organization: http://groups.google.com
Lines: 38
Message-ID: <53458c7b-dbc0-4d9f-af2d-b0ae80ba794b@1g2000hsl.googlegroups.com>
References: <9e94ed16-92d1-440e-a2a4-086c4253bab4@i3g2000hsf.googlegroups.com>
     <d07c4$4798c373$4df9bb2c$7134@news.chello.nl>
NNTP-Posting-Host: 222.154.154.218
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1201198121 15188 127.0.0.1 (24 Jan 2008 18:08:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 24 Jan 2008 18:08:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: 1g2000hsl.googlegroups.com; posting-host=222.154.154.218;
     posting-account=TfKoOgkAAABQzW2yM8tZrYe8S04m-wqP
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15165

On Jan 25, 5:57=A0am, Sjoerd <pe2...@gEEmail.com> wrote:
> MarkAren schreef:
>
>
>
>
>
> > Hi Guys,
>
> > Anyone know where I can buy the 50mW TX and RX modules - I believe
> > they are controlled using I2C.
>
> > I don't need the external uP and PCB - just the modules themselves.
>
> > The modules are around 1.5 x 2", housed in a tin box with feedthroughs
> > for signal and control. RF is on an SMA.
>
> > Manufacturers name and model number would also be very useful to help
> > with an eBay search...
```

```
>
> > Many thanks,
>
> > Mark
>
> It is in German, but it might help you...
>
> http://www.lechner-cctv.de/artikel_uebersicht.php?KAT=3D95&LANG=3DEN&mwdS.=
..
>
> Good luck,
>
> Sjoerd- Hide quoted text -
>
> - Show quoted text -

Very good.

Thanks, Mark



From -7943479727935237434
X-Google-Thread: 108122,1a112b9d1acdbe57
X-Google-Thread: fcc6e,1a112b9d1acdbe57
X-Google-Thread: fc2a5,1a112b9d1acdbe57
X-Google-Attributes: gid108122,gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!newsfeed01.sul.t-
online.de!newsfeed00.sul.t-online.de!t-online.de!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Broke down and bought one ...
Date: Thu, 24 Jan 2008 11:37:16 -0800
Organization: albasani.net
Lines: 30
Message-ID: <fnapd7$gv5$2@news.albasani.net>
References: <fn4aiu$opl$1@news.albasani.net> <jerseyj69-
DBA080.13410123012008@newsgroups.comcast.net> <fn82jr$sls$1@news.albasani.net>
<fnahfo$h2s$1@aioe.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net l18yUEb+tk0QwWLcHMsR4r/
Y9+m7UnyyTwiUz1wG7uK8DeGV8sgUSjl1UeV0dr0WrVuYda74BxJU12FZCSdrsoBFr+
+kZdjqY7K6PVKqZANq91Ed7xSzIIoHG/3fawPw
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Thu, 24 Jan 2008 19:37:11 +0000 (UTC)
X-User-ID: jmBEeS/tRxA77fxZT8e5w0/Rq20QS1SSzy0x/RKva7Q=
In-Reply-To: <fnahfo$h2s$1@aioe.org>
Cancel-Lock: sha1:zpRl92PYOEP0MjpC27rikL+2YGI=
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
X-NNTP-Posting-Host: ueeCnBcwxUKMgF6Dk/3KFnjatJNK4IEJUq2yF/ZqwHs=
```

Xref: g2news1.google.com rec.radio.amateur.equipment:13866 rec.radio.amateur.antenna:53954 rec.radio.amateur.homebrew:15166

Steve H wrote:

>> ...
> As a short term investment in a radio it may not be bad value but in
> this fast changing market that has not yet had any of the big 4 players
> make a move the resale value in 5 years may be rather lower than you
> would expect for a conventional radio - think of the value of a 2002
> computer with a then state of the art sound card.
>
>
> Steve H (Luddite)

Steve:

You know I can hardly wait to lay hands on the darn thing; and, you know it will live with me for a day and, THEN, I will have the case off it.

You did see the sentence which acknowledges it has an ITX board in it (a miniature motherboard!) In effect, I am just buying a computer which knows how to be a radio ...

I tell you, I think it is enough. I do believe I will be happy with it. It is NOT like buying gold, I know it has a life expectancy and one day that will be $0.01 USD.

Still, I will be happy for a bit ... as I said, you mileage may vary. I walked into this deal with my eyes wide open ...

Warm regards,
JS

From -5727335973678455538
X-Google-Thread: fc2a5,5e57ebd85cdfee25
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 24 Jan 2008 17:09:26 -0600
Date: Thu, 24 Jan 2008 23:09:25 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Good reading on radio modifications/building
References: <3ab8579a-b03a-4234-8552-52ac8a990f86@l32g2000hse.googlegroups.com>

<rdvgp3tpqroibdcb4pnluoprj4165igd92@4ax.com>
In-Reply-To: <rdvgp3tpqroibdcb4pnluoprj4165igd92@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <nIidnTn__YA7hwTanZ2dnUVZ_rPinZ2d@bright.net>
Lines: 42
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-l9r+aR94jeHg33JIr7Ud72YbPaQYKcQDDfqMeC/aYig4cn12iqLYBbVpRF/
urJZzPplfgML5SkbCbaq!
7cTzZ5tSsQuFE8buMgg5MhtNpcxpcGm8FgGMR5pwOfNDVXiCKmr2M+5Apylf3UOZJB6pXHmlGkRA!
LgCMUcf+7w==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15167

Aviation band is AM :(

Scott
N0EDV

Edward Feustel wrote:
> On Wed, 23 Jan 2008 20:10:01 -0800 (PST), jblandrum@gmail.com wrote:
>
>
>>I'm curious about how I might modify say my Aviation Radio (my hand
>>held spare I keep in case of lost electric in an aircraft). To pick up
>>amateur bands as well as the Aviation bands.
>>
>>I'm not interested in the slightest as to whether or not this is
>>legal, I'm simply looking for educational purposes.
>>I wanted to get one and then I became curious ... as to how difficult
>>it would be or how it would be done, what kind of reading I would do
>>if I wanted to build/modify any radio etc.
>
>
> As I understand it, aviation radios use frequency modulation.
> If you are interested in the vhf or uhf amateur transmissions,
> then you can build a simple converter in which the portions of
> the bands you are interested can be converted to be presented
> in the aviation bands.
>
> Your best bets for dealing with other modulation modes such as cw and
> ssb is to either buy an older transceiver or shortwave receiver with
> beat frequency oscillator (or ssb reception). Alternatively you can
> get a receiver kit or build a simple regenerative receiver.
>
> In both cases, an investment in the ARRL's Amateur Radio Handbook
> is advisable. An edition after about 1990 (they are done yearly)

> would be appropriate.
> 73,
> Ed, N5EI

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

From -1780867867974686435
X-Google-Thread: fc2a5,b4183bcaf58bd45a,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wn12feed!worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: BIRD NOS COAXSWITCH: NOS: AVAILABLE
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <hBbmj.487215$kj1.282825@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: dacfbcc627a2d5e7bd08484eb7f7e75a
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1201227213 dacfbcc627a2d5e7bd08484eb7f7e75a (Fri, 25 Jan 2008 02:13:33 GMT)
NNTP-Posting-Date: Fri, 25 Jan 2008 02:13:33 GMT
Organization: AT&T Worldnet
Date: Fri, 25 Jan 2008 02:13:33 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15168

A NOS COAXSWITCH SERIES #74 will be on Ebay soon at:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

Have seen used ones for $495! Mine will not be, hi : stay tuned, tnx
Heytubeguy

From 5133126524633872746
X-Google-Thread: fcc6e,c54212ea4ed64f42
X-Google-Thread: fc2a5,c54212ea4ed64f42
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!

```
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!nuzba.szn.dk!
pnx.dk!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: How to make a triode
Date: Sun, 13 Jan 2008 21:09:14 -0800
Organization: albasani.net
Lines: 16
Message-ID: <fmeqpr$uso$1@news.albasani.net>
References: <9xphj.41449$G23.11374@newsreading01.news.tds.net>
<QCAhj.409941$kj1.228642@bgtnsc04-news.ops.worldnet.att.net>
<47890454$0$5154$4c368faf@roadrunner.com> <8srn55-g6i.ln1@remote.clifto.com>
<8e5f8$478a2aa4$45013935$20824@KNOLOGY.NET> <fmdgaf$7cm$1@news.albasani.net>
<Xns9A24E5D2F25CFmcoslocomcastnet@216.196.97.136>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net kuVNg8LWuD2nK8zeRnNeXbAYlYCgX9mEqkZX6+Y39/
K7f72yN4xX6+Atz86j/k9Ca+SQpKnuK9vtmS1PPHIz6UBsc3c88PTl6ETEVQ6T3akxMP4/rd2/
oFgeW1LO6dGR
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Mon, 14 Jan 2008 05:09:16 +0000 (UTC)
X-User-ID: RfNCy4YXJpl1GyRADxfquCMo3YGm/6XrCdRvhj+HSQc=
In-Reply-To: <Xns9A24E5D2F25CFmcoslocomcastnet@216.196.97.136>
Cancel-Lock: sha1:inCCUGcDiKIev76CtTkxUJ0Bcx8=
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
X-NNTP-Posting-Host: bCevPfadXqGdKTmadxA38meoRfm1iGMnNEcRj4XnDsY=
Xref: g2news1.google.com rec.radio.amateur.antenna:53332
rec.radio.amateur.homebrew:15067
```

Mike Coslo wrote:

> ...
> How on earth did this thread morph to this stuff?

The fool I responded to was very confused--just happens I guess--a few words to set a lost sole back on a steady course is hardly too much to ask ...

He thought a government had legally replaced that established by the constitution and if "that government" stole your money long enough it became theirs.

Imagine! <ROFLOL>

JS

```
From -7360898321862679816
X-Google-Thread: 10c2ee,9968ee6b3ffa2ea9
X-Google-Thread: fc8b1,9968ee6b3ffa2ea9
X-Google-Thread: f4535,9968ee6b3ffa2ea9
X-Google-Thread: fc2a5,9968ee6b3ffa2ea9
```

```
X-Google-Attributes: gid10c2ee,gidfc8b1,gidf4535,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!e6g2000prf.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.antiques.radio+phono, rec.radio.amateur.boatanchors,
     rec.audio.tubes, rec.radio.amateur.homebrew
Subject: Re: New Triad Transformer online archive - official!
Date: Mon, 14 Jan 2008 07:06:03 -0800 (PST)
Organization: http://groups.google.com
Lines: 16
Message-ID: <1c5ecf07-163c-4d9c-b7f9-a5b63286e875@e6g2000prf.googlegroups.com>
References: <EGkhj.6626$se5.2231@nlpi069.nbdc.sbc.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1200323164 2950 127.0.0.1 (14 Jan 2008 15:06:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 14 Jan 2008 15:06:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e6g2000prf.googlegroups.com; posting-host=170.121.15.35;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.antiques.radio+phono:90635
rec.radio.amateur.boatanchors:13739 rec.audio.tubes:48735
rec.radio.amateur.homebrew:15068

On Jan 10, 3:28=A0am, patrick jankowiak <e...@swbell.net> wrote:
> Hello,
>
> Triad Transformer has generously posted their archive of transformer
> catalogs online spanning 60 years.
>
> I was playing with the print feature, they will print to PDF or a 8.5x11
> page OK for me.
>
> http://www.triadtransformers.com/

"Print to PDF" from a point-and-drool browser for each page isn't
really necessary - all the pages are just JPG's, just download all the
JPG's (e.g. wget) and then assemble into a PDF (e.g. any of the
freeware tools that convert JPG's into PDF pages from a command line)
if that's what you want.


From 6496800644474163919
X-Google-Thread: fcc6e,c54212ea4ed64f42
X-Google-Thread: fc2a5,c54212ea4ed64f42
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news1.google.com!news4.google.com!out02a.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!hwmnpeer01.phx!news.highwinds-
media.com!hw-filter.phx!newsfe11.phx.POSTED!53ab2750!not-for-mail
From: "The Shadow" <Cranston@CobaltClub.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <9xphj.41449$G23.11374@newsreading01.news.tds.net>
<QCAhj.409941$kj1.228642@bgtnsc04-news.ops.worldnet.att.net>
<47890454$0$5154$4c368faf@roadrunner.com> <8srn55-g6i.ln1@remote.clifto.com>
<8e5f8$478a2aa4$45013935$20824@KNOLOGY.NET> <fmdgaf$7cm$1@news.albasani.net>
<Xns9A24E5D2F25CFmcoslocomcastnet@216.196.97.136>
In-Reply-To: <Xns9A24E5D2F25CFmcoslocomcastnet@216.196.97.136>
Subject: tax freedom day
Lines: 9
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6000.16480
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6000.16545
Message-ID: <ZnLij.390$GS1.343@newsfe11.phx>
NNTP-Posting-Host: 72.197.13.209
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe11.phx 1200325241 72.197.13.209 (Mon, 14 Jan 2008 08:40:41 MST)
NNTP-Posting-Date: Mon, 14 Jan 2008 08:40:41 MST
Organization: Cox
Date: Mon, 14 Jan 2008 07:40:40 -0800
Xref: g2news1.google.com rec.radio.amateur.antenna:53349
rec.radio.amateur.homebrew:15069



>> Reader Digest used to do an article once a year which showed how long
>> a person must work just to pay his her taxes--last I seen (years ago)
>> it was past April headed for June; anyone read that article lately?
>>
http://www.taxfoundation.org/press/show/22300.html

Lamont



From 8322887439753257328
X-Google-Thread: fcc6e,c54212ea4ed64f42
X-Google-Thread: fc2a5,c54212ea4ed64f42
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!news.kjsl.com!
ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
```

```
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: tax freedom day
Date: 14 Jan 2008 16:11:37 GMT
Organization: The National Capital FreeNet
Lines: 51
Message-ID: <fmg1jp$j16$1@theodyn.ncf.ca>
References: <9xphj.41449$G23.11374@newsreading01.news.tds.net>
<QCAhj.409941$kj1.228642@bgtnsc04-news.ops.worldnet.att.net>
<47890454$0$5154$4c368faf@roadrunner.com> <8srn55-g6i.ln1@remote.clifto.com>
<8e5f8$478a2aa4$45013935$20824@KNOLOGY.NET> <fmdgaf$7cm$1@news.albasani.net>
<Xns9A24E5D2F25CFmcoslocomcastnet@216.196.97.136> <ZnLij.390$GS1.343@newsfe11.phx>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1200327097 19494 134.117.136.48 (14 Jan 2008 16:11:37 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 14 Jan 2008 16:11:37 GMT
Xref: g2news1.google.com rec.radio.amateur.antenna:53353
rec.radio.amateur.homebrew:15070
```

"The Shadow" (Cranston@CobaltClub.com) writes:

>
> >>> Reader Digest used to do an article once a year which showed how long
> >>> a person must work just to pay his her taxes--last I seen (years ago)
> >>> it was past April headed for June; anyone read that article lately?
> >>>
> http://www.taxfoundation.org/press/show/22300.html
>
> Lamont

If you really cared about the newsgroups, bozo, you wouldn't be posting off topic junk to them.

This is no better than when you posted about dog food to rec.radio.shortwave, and then turned around and changed your user name so we'd think you were someone else.

Just because idiots abuse the newsgroups is not a reason for other idiots to follow.

You didn't need to add anything to this thread, and keep it off topic.

You certainly didn't need to change the subject header so it looks like you are starting another thread, a completely off topic thread to boot.

YOu could also consider that some idiot cross-posted this thread in the first place, which is always a good reason for off-topic junk to start up, and by adding to that mess, you just continue it all. Usually, if it's cross-posted, you shouldn't reply (since virtually no cross-posting serves a purpose, it is indeed the mark of someone too lazy to find the appropraite place to post).

Finally, the only way you could be dazzled by the idea of someone making tubes at home is because you lack depth beyond your ability to post links.

YOu saw it posted somewhere else, I don't for a minute believe you found it through hard work on your own behalf, and like other people decided it was "too good" to not post in yet another newsgroup, just like others before you posted to other newsgroups where you found it.

Come up with something original, like the exact date of that 1964 article in QST (or perhaps it was CW) where there was an article about an Argentinian who made tubes at home. Because then you'd prove this isn't a sudden and new thing, despite the internet wrapptings, and you'd actually add something to the discussion, beyond an ability to use search engines.

Or spend some time in a used book store, finding and then buying the books that might be relevant to the discussion, and then start making the tubes yourself.

  Michael VE2BVW

```
From -3356179204792133823
X-Google-Thread: fcc6e,c54212ea4ed64f42
X-Google-Thread: fc2a5,c54212ea4ed64f42
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!newsfeed.datemas.de!
news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: tax freedom day
Date: Mon, 14 Jan 2008 09:10:40 -0800
Organization: albasani.net
Lines: 11
Message-ID: <fmg52o$o1o$1@news.albasani.net>
References: <9xphj.41449$G23.11374@newsreading01.news.tds.net>
<QCAhj.409941$kj1.228642@bgtnsc04-news.ops.worldnet.att.net>
<47890454$0$5154$4c368faf@roadrunner.com> <8srn55-g6i.ln1@remote.clifto.com>
<8e5f8$478a2aa4$45013935$20824@KNOLOGY.NET> <fmdgaf$7cm$1@news.albasani.net>
<Xns9A24E5D2F25CFmcoslocomcastnet@216.196.97.136> <ZnLij.390$GS1.343@newsfe11.phx>
<fmg1jp$j16$1@theodyn.ncf.ca>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
kn0chuD80gu0nTOl2o2O2cfzoy5RIsDJLd4NtmxpxL6fJ0E564FVY1rjkunnXkVtfTD0qGBbxqdJq17Q1H
spYh8bmfYV4l3in4dI70HqqQhwUHRo4M6yYSYJeMeYLEOq
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Mon, 14 Jan 2008 17:10:48 +0000 (UTC)
X-User-ID: 6e8ay07dH98Jp1Cu6unWsyAbnhbq4xpBiASwX+Ns8mE=
In-Reply-To: <fmg1jp$j16$1@theodyn.ncf.ca>
Cancel-Lock: sha1:DvoUgUKG1F+Gc3VcAsM9Vk5+RZQ=
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
X-NNTP-Posting-Host: sK9udnp3mK/hkPEHZqg9gRvJWS1bDSKYSE/kyQOXWwo=
Xref: g2news1.google.com rec.radio.amateur.antenna:53356
```

rec.radio.amateur.homebrew:15071

Michael Black wrote:

> [...]
>   Michael VE2BVW
>

For California, you work until May 7 to pay your taxes:

http://www.taxfoundation.org/UserFiles/Image/Tax-Freedom-Day/2007/
figure5large4.jpg

JS

```
From -8043548558124698407
X-Google-Thread: fc2a5,27dd915fab694f57,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 14 Jan 2008 14:50:45 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: April 1977 QST article
Date: Mon, 14 Jan 2008 14:50:50 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
Lines: 10
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.239.37.56
X-Trace:
sv3-89wwIuICz7nf2B9hOy0zXFaxgKgxVS3o+PCdITiWba1SD5HO0pQHU7PYhbz01vGaq116kJ4rnTrq3D
/!RXkWMqy00enqY7gon40YnClqKOcViv9hdL8QXDKOOrN4rjQgdboZriQx+5qS2g7BKhOzNJ7v6IsY!
EikvaIDYxHjZTSEtRlbem97XV3+x
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15072
```

Hi,

Does anybody have a copy of the April 1977 QST? The article I am interested
in the the one by Howard Sartori, entitled

"solid tubes, a new life for old designs".
If somebody could scan this article, I would be glad to pay them. Thanks!

Pete KE9OA

From -5365491192812409111
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ITALIAN,ASCII
Path: g2news1.google.com!news4.google.com!news.germany.com!news.newsland.it!nntp.eutelia.it!tiscali!newsfeed1.ip.tiscali.net!draco.tiscalinet.it!news-f1.tiscali.it!not-for-mail
Date: Mon, 14 Jan 2008 22:55:23 +0100
From: "i3hev, mario held" <marioheld@tiscali.it>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: it, en-US, eo, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
In-Reply-To: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 17
Message-ID: <478bda15$0$16036$5fc30a8@news.tiscali.it>
Organization: Tiscali SpA
NNTP-Posting-Host: 84.220.120.222
X-Trace: 1200347669 news.tiscali.it 16036 84.220.120.222:1914
X-Complaints-To: abuse@tiscali.it
Xref: g2news1.google.com rec.radio.amateur.homebrew:15073

Pete KE9OA wrote:

> Hi,
>
> Does anybody have a copy of the April 1977 QST? ...

Hi, Pete, you have mail! :)

--
73 es 51 de i3hev, op. mario

Non � Radioamatore, se non gli fuma il saldatore!
- Campagna 2006 "Il Radioamatore non � uno che ascolta la radio"

it.hobby.radioamatori.moderato
http://digilander.libero.it/hamweb
http://digilander.libero.it/esperantovenezia

```
From 7175429520453828341
X-Google-Thread: fc2a5,e73a03de37edb82f,start
X-Google-Thread: 1109af,e73a03de37edb82f,start
X-Google-Attributes: gidfc2a5,gid1109af,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news2.google.com!news1.google.com!
news.glorb.com!feed.cgocable.net!read1.cgocable.net.POSTED!53ab2750!not-for-mail
From: "Norm VE3CZI" <ve3czi@arrl.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.swap
Subject: FA:  MSR-2000 Logic Cards and other items
Lines: 6
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <3uRij.9$2Z1.0@read1.cgocable.net>
Date: Mon, 14 Jan 2008 17:36:47 -0500
NNTP-Posting-Host: 24.141.130.191
X-Complaints-To: news@cogeco.net
X-Trace: read1.cgocable.net 1200350207 24.141.130.191 (Mon, 14 Jan 2008 17:36:47
EST)
NNTP-Posting-Date: Mon, 14 Jan 2008 17:36:47 EST
Organization: Cogeco Cable
Xref: g2news1.google.com rec.radio.amateur.homebrew:15074 rec.radio.swap:18206
```

On final hours of auction, some MSR-2000 Logic Cards and other items.
Thank You for looking....Norm

http://search.ebay.ca/_W0QQsassZradioguy101

```
From 8881936642340135299
X-Google-Thread: fc2a5,c54212ea4ed64f42
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-FeedAbuse: http://nntpfeed.proxad.net/abuse.pl feeded by 88.191.71.11
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
nntpfeed.proxad.net!news.netfinity.fr!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to make a triode
Date: Mon, 14 Jan 2008 16:13:19 -0800
Organization: albasani.net
Lines: 13
Message-ID: <fmgtr7$5oe$1@news.albasani.net>
References: <9xphj.41449$G23.11374@newsreading01.news.tds.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

```
X-Trace: news.albasani.net P2WlmU06C92fLo/aj5z/
b0GEG8WUX0lhs+EkiJ4QjCeRTZofv2j2YOz0zRRCocavTGcAFd9twpWQxj+A3VJhsK8AxBmwtUkNTSjPy5
1X0FW4jan6oj12g25voQuF0Xfa
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Tue, 15 Jan 2008 00:13:27 +0000 (UTC)
X-User-ID: DFaz7eS8TuFCXJvjp4QYsGAxcj5YlmS5l+U+OZa3Dac=
In-Reply-To: <9xphj.41449$G23.11374@newsreading01.news.tds.net>
Cancel-Lock: sha1:fK/+AuvvHLTS0Taa/ysKmD1Srvs=
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
X-NNTP-Posting-Host: CWyTApc0HEBnI3+uoEUgn4uc86h/0YF3oRV4rA7E5Fk=
Xref: g2news1.google.com rec.radio.amateur.homebrew:15075
```

John, N9JG wrote:

> May not be directly antenna related, but ...
> http://www.dailymotion.com/video/x3wrzo_fabrication-dune-lampe-triode_tech
>
>

A sentence or two on "getting." Be sure to check out the "main menu"
link on the top of the page also. Some pointers can be gleaned ...

http://www.teralab.co.uk/Glass_Blowing/Mg_Evaporation/Mg_Evaporation_Page1.htm

JS

```
From -7466125139925911932
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!out04b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx01.iad01.newshosting.com!newshosting.com!198.186.194.251.MISMATCH!news-
out.readnews.com!transit3.readnews.com!newspeer1.nwr.nac.net!
border2.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 14 Jan 2008 18:34:24 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<478bda15$0$16036$5fc30a8@news.tiscali.it>
Subject: Re: April 1977 QST article
Date: Mon, 14 Jan 2008 18:34:29 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <COudnSYWppIMYhbanZ2dnUVZ_vCknZ2d@comcast.com>
Lines: 27
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.239.37.56
```

```
X-Trace: sv3-8raM8uWBCPzxnLENVvW73hum2MYe/eT4Vb50/
AvfDtUHWfjb08nC115lB1pRnwl33hAOt3YUHLfdVr2!
4UIb12hMCtq2460kr8rTBdiFGtjZGdOg1K3dlQIqAcLWw51+kjlRGo/pn2EEtFgsEvOAyDrOLePE!
7CqPLTP+fPfygVE6cU4Lkc7r9rnN
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15076

Thank you Mario.............you are the best! I have always wanted to build
solid state tube replacements. Now, I am on my way to converting my Collins
R-388 to a solid state unit.

Pete

"i3hev, mario held" <marioheld@tiscali.it> wrote in message
news:478bda15$0$16036$5fc30a8@news.tiscali.it...
> Pete KE9OA wrote:
>
>> Hi,
>>
>> Does anybody have a copy of the April 1977 QST? ...
>
> Hi, Pete, you have mail! :)
>
> --
> 73 es 51 de i3hev, op. mario
>
> Non � Radioamatore, se non gli fuma il saldatore!
> - Campagna 2006 "Il Radioamatore non � uno che ascolta la radio"
>
> it.hobby.radioamatori.moderato
> http://digilander.libero.it/hamweb
> http://digilander.libero.it/esperantovenezia




From -4492434388834327721
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe18.lga.POSTED!53ab2750!not-for-mail
From: "Tio Pedro" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<478bda15$0$16036$5fc30a8@news.tiscali.it>
<COudnSYWppIMYhbanZ2dnUVZ_vCknZ2d@comcast.com>
Subject: Re: April 1977 QST article
```

```
Lines: 7
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <d2Uij.22583$m6.7751@newsfe18.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe18.lga 1200360713 72.209.25.33 (Mon, 14 Jan 2008 18:31:53 MST)
NNTP-Posting-Date: Mon, 14 Jan 2008 18:31:53 MST
Organization: Cox
Date: Mon, 14 Jan 2008 20:31:52 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:15077
```

Hey Pete

Send the other Pete a copy...

Tio Pedro

```
From 3188841833429722886
X-Google-Thread: fc2a5,97a2d4f1eb574bc5,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!v67g2000hse.googlegroups.com!not-for-
mail
From: Bert <hcm1955@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Syncing Up Multiple Magnetrons
Date: Mon, 14 Jan 2008 20:39:17 -0800 (PST)
Organization: http://groups.google.com
Lines: 12
Message-ID: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
NNTP-Posting-Host: 71.179.5.247
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1200371958 27487 127.0.0.1 (15 Jan 2008 04:39:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 15 Jan 2008 04:39:18 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v67g2000hse.googlegroups.com; posting-host=71.179.5.247;
     posting-account=mdUWtwkAAADoT_k61zBNbjGaOg_ho0GM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     Lockheed Martin TSS; InfoPath.1; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15078
```

Does anyone in the group know anything about magnetrons? I planning to do some experiments in transmitting microwaves.

I would like to use standard magnetrons from a microwave oven and
believe I can beam further if operated at the same frequency and
with the outputs in phase. I have no idea on how to do this. Please
advise

Cheers,
Bert

From -367269222878276599
X-Google-Thread: fc2a5,97a2d4f1eb574bc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews1.bellsouth.net.POSTED!aba369ab!
not-for-mail
Message-ID: <478C411C.6000405@nettally.com>
From: **THE-RFI-EMI-GUY** <rhyolite@nettally.com>
Organization: Central Scrutinizer
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Syncing Up Multiple Magnetrons
References: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
In-Reply-To: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 32
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
pcpocbcnbdmdhgfgdbdpiflmbcekedmfhojhikkbagflhcbonblpjliachcefebafgbjfmcjiplkjmhnpd
kkniakbmhaegdabpeclalcloiihiplolehbjnpjajpnjhhilmnmkflakgbpbclhpkokimacfkldigp
NNTP-Posting-Date: Tue, 15 Jan 2008 00:05:54 EST
Date: Tue, 15 Jan 2008 00:14:04 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:15079

Try looking up "injection locking". Basically, you take a stable signal
and force it into the magnetron via a directional coupler or isolator.
The magnetron synchs with that signal. Multiple magnetrons might synch
to each other depending on the coupling between them. Maintaining proper
phase might still be an issue for the combiner method.

Bert wrote:

>Does anyone in the group know anything about magnetrons? I planning to
>do some experiments in transmitting microwaves.

>
>I would like to use standard magnetrons from a microwave oven and
>believe I can beam further if operated at the same frequency and
>with the outputs in phase. I have no idea on how to do this. Please
>advise
>
>Cheers,
>Bert
>
>
>
>

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From -3311912870506470979
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 14 Jan 2008 23:55:08 -0600
From: "Jim" <kill-spam@no-spam.org>
Newsgroups: rec.radio.amateur.homebrew
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
Subject: Re: April 1977 QST article
Date: Mon, 14 Jan 2008 21:55:07 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 080114-3, 01/14/2008), Outbound message
X-Antivirus-Status: Clean
Message-ID: <14-dnXR0YdEh1xHanZ2dnUVZ_v2pnZ2d@comcast.com>
Lines: 30
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.181.200.74
X-Trace: sv3-jUHmvpMDhs573KS0ZdpMnAlpKd9a/
8JEAnEPw+VIgI9NxdTABidUhJ0IKyvHHKv2j745u6nB2u6opiw!1fXSyw378fDhF95pHbIIjSEw4+/
7EMnXTcGrJap7CU1Xb6Q+z030+b8ZY6awbSbNehm4AgTqSFeB!md4aIRe3O+a8+RJ0QaJzXj5dfjz61A==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net

X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15080

>Pete KE9OA Wrote:
>
>Does anybody have a copy of the April 1977 QST?
>The article I am interested in the the one by
>Howard Sartori, entitled
>"solid tubes, a new life for old designs".
>

Pete, the last time I did this, I had dual gate MosFET devices.   These days they are harder to find, so I'd probably use two JFETs in cascade to get more or less the same effect.

I vaguelly remember the article recommends dual gate MosFETs but I will admit, it's been a long time since I read it.

Jim Pennell
N6BIU

--

21:55 Pacific Time Zone
Jan 14 2008

International Time
05:55 UTC
15.01.2008

From 8474449240362594938
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 15 Jan 2008 01:47:13 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<478bda15$0$16036$5fc30a8@news.tiscali.it>
<COudnSYWppIMYhbanZ2dnUVZ_vCknZ2d@comcast.com> <d2Uij.22583$m6.7751@newsfe18.lga>
Subject: Re: April 1977 QST article
Date: Tue, 15 Jan 2008 01:47:18 -0600

```
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <kpWdnXOBtOic-BHanZ2dnUVZ_uGknZ2d@comcast.com>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.239.37.56
X-Trace: sv3-VJ9jtUTBE1bOg/
LlzW8tBhUK0tvrz+u46p4iUWsVAkuNROvqNM3B1w2BL2qBFzXQFbDeRXbR7y/xTYL!
B7igveu+4idk55ky8t/A9A/KZh2WqX3ajl7NZ70XcnJvhHr/qphA6GtLpHfF609Mu7xjkjPOMwwD!
lmhoTdxcob1HiRBGg6p+sowso1pE
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15081

They just went out. What you have coming are 6 JPEGs that are 730k each.

Pete

"Tio Pedro" <radioconnection@cox.net> wrote in message
news:d2Uij.22583$m6.7751@newsfe18.lga...
> Hey Pete
>
> Send the other Pete a copy...
>
> Tio Pedro
>
>




From -4009261250875375436
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 15 Jan 2008 01:50:15 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com> <14-
dnXR0YdEh1xHanZ2dnUVZ_v2pnZ2d@comcast.com>
Subject: Re: April 1977 QST article
Date: Tue, 15 Jan 2008 01:50:20 -0600
X-Priority: 3
```

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <armdnbquno4q-BHanZ2dnUVZ_sudnZ2d@comcast.com>
Lines: 42
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.239.37.56
X-Trace: sv3-
T7n2e6HRvb8dxAhqvlkpgge3lmLqkKeFEJCiIaIZE3bhSDTu+Qkn9Seucjqd22rr5qp7j1lNi13qDky!
Rh2Kjk1LlbOW/Fw/Fj7OLWzwdtsJtM4yIY0/XOQr84GirXN+s/FOwcvlKogEAMS5plFXYEbaejWB!
LVP2aV1/7pb2HK3hgNgV8Z4oXfsn
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15082

I will give it a whirl. I do have some of the dual gate devices on hand. I have to do a board layout for each of the modules, that will have a pin field that has the same pattern as the tube base. Out of all the receivers I have / have had, I think the
R-388 is still my favorite.

Pete

"Jim" <kill-spam@no-spam.org> wrote in message
news:14-dnXR0YdEh1xHanZ2dnUVZ_v2pnZ2d@comcast.com...
> >Pete KE9OA Wrote:
>>
>>Does anybody have a copy of the April 1977 QST?
>>The article I am interested in the the one by
>>Howard Sartori, entitled
>>"solid tubes, a new life for old designs".
>>
>
>   Pete, the last time I did this, I had dual gate MosFET devices.   These
> days they are harder to find, so I'd probably use two JFETs in cascade to
> get more or less the same effect.
>
> I vaguelly remember the article recommends dual gate MosFETs but I will
> admit, it's been a long time since I read it.
>
>
>   Jim Pennell
>   N6BIU
>
>
> --
>
> 21:55 Pacific Time Zone

> Jan 14 2008
>
> International Time
> 05:55 UTC
> 15.01.2008
>
>

From 4028060128067096857
X-Google-Thread: fc2a5,97a2d4f1eb574bc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!d70g2000hsb.googlegroups.com!not-for-mail
From: Bert <hcm1955@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Syncing Up Multiple Magnetrons
Date: Tue, 15 Jan 2008 02:18:18 -0800 (PST)
Organization: http://groups.google.com
Lines: 34
Message-ID: <8033605f-de21-44a9-851c-a97ea49edea7@d70g2000hsb.googlegroups.com>
References: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
     <478C411C.6000405@nettally.com>
NNTP-Posting-Host: 71.179.5.247
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1200392299 3332 127.0.0.1 (15 Jan 2008 10:18:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 15 Jan 2008 10:18:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d70g2000hsb.googlegroups.com; posting-host=71.179.5.247;
     posting-account=mdUWtwkAAADoT_k61zBNbjGaOg_ho0GM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15083

Ok I will look into injection locking.

Thanks,
Bert

On Jan 15, 12:14=A0am, **THE-RFI-EMI-GUY** <rhyol...@nettally.com> wrote:
> Try looking up "injection locking". Basically, you take a stable signal
> and force it into the magnetron via a directional coupler or isolator.
> The magnetron synchs with that signal. Multiple magnetrons might synch
> to each other depending on the coupling between them. Maintaining proper
> phase might still be an issue for the combiner method.

```
>
> Bert wrote:
> >Does anyone in the group know anything about magnetrons? I planning to
> >do some experiments in transmitting microwaves.
>
> >I would like to use standard magnetrons from a microwave oven and
> >believe I can beam further if operated at the same frequency and
> >with the outputs in phase. I have no idea on how to do this. Please
> >advise
>
> >Cheers,
> >Bert
>
> --
> Joe Leikhim K4SAT
> "The RFI-EMI-GUY"=A9
>
> "Treason doth never prosper: what's the reason?
> For if it prosper, none dare call it treason."
>
> "Follow The Money" =A0;-P



From 1358468074595476096
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!news2.google.com!eweka.nl!
lightspeed.eweka.nl!195.114.231.69.MISMATCH!feeder.news-service.com!
newsfeed00.sul.t-online.de!t-online.de!tiscali!newsfeed1.ip.tiscali.net!
draco.tiscalinet.it!news-f2.tiscali.it!not-for-mail
Date: Tue, 15 Jan 2008 20:57:18 +0100
From: "i3hev, mario held" <marioheld@tiscali.it>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: it, en-US, eo, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<478bda15$0$16036$5fc30a8@news.tiscali.it>
<COudnSYWppIMYhbanZ2dnUVZ_vCknZ2d@comcast.com>
In-Reply-To: <COudnSYWppIMYhbanZ2dnUVZ_vCknZ2d@comcast.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 26
Message-ID: <478d0fdb$0$21198$5fc30a8@news.tiscali.it>
Organization: Tiscali SpA
NNTP-Posting-Host: 84.220.120.222
X-Trace: 1200426971 news.tiscali.it 21198 84.220.120.222:2469
X-Complaints-To: abuse@tiscali.it
Xref: g2news1.google.com rec.radio.amateur.homebrew:15084
```

Hi Pete, hi all!

Pete KE9OA wrote:

> Thank you Mario.............you are the best!

well, well, now... just one among the beAsts... <:)
glad to be of service!

> I have always wanted to build solid state tube replacements.
> Now, I am on my way to converting my Collins
> R-388 to a solid state unit.

A good lot of work, I'd say - good luck! :)

Ciao!
--
73 es 51 de i3hev, op. mario

Non � Radioamatore, se non gli fuma il saldatore!
- Campagna 2006 "Il Radioamatore non � uno che ascolta la radio"

it.hobby.radioamatori.moderato
http://digilander.libero.it/hamweb
http://digilander.libero.it/esperantovenezia

From -1541201387101809110
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-05!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article
Date: Tue, 15 Jan 2008 14:15:19 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13oq4md3naalia0@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<478bda15$0$16036$5fc30a8@news.tiscali.it>
<COudnSYWppIMYhbanZ2dnUVZ_vCknZ2d@comcast.com>
<478d0fdb$0$21198$5fc30a8@news.tiscali.it>
In-Reply-To: <478d0fdb$0$21198$5fc30a8@news.tiscali.it>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com

Lines: 29
Xref: g2news1.google.com rec.radio.amateur.homebrew:15085

i3hev, mario held wrote:

> Hi Pete, hi all!
>
> Pete KE9OA wrote:
>
>> Thank you Mario............you are the best!
>
>
> well, well, now... just one among the beAsts... <:)
> glad to be of service!
>
>
>> I have always wanted to build solid state tube replacements. Now, I am
>> on my way to converting my Collins R-388 to a solid state unit.
>
>
> A good lot of work, I'd say - good luck! :)
>
> Ciao!

I wouldn't mind seeing that article too; in the '80s I built some common type replacements using jfets and bipolars and installed them in an HP scope which was the fastest I had at that time. I still have a real Fetron in my desk drawer.

Regards,

Michael

From 8283521811769482495
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!213.200.89.82.MISMATCH!tiscali!newsfeed1.ip.tiscali.net!draco.tiscalinet.it!news-f2.tiscali.it!not-for-mail
Date: Tue, 15 Jan 2008 22:57:19 +0100
From: "i3hev, mario held" <marioheld@tiscali.it>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: it, en-US, eo, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<478bda15$0$16036$5fc30a8@news.tiscali.it>
<COudnSYWppIMYhbanZ2dnUVZ_vCknZ2d@comcast.com>
<478d0fdb$0$21198$5fc30a8@news.tiscali.it> <13oq4md3naalia0@corp.supernews.com>

In-Reply-To: <13oq4md3naalia0@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 25
Message-ID: <478d2bfc$0$21206$5fc30a8@news.tiscali.it>
Organization: Tiscali SpA
NNTP-Posting-Host: 84.220.120.222
X-Trace: 1200434172 news.tiscali.it 21206 84.220.120.222:4429
X-Complaints-To: abuse@tiscali.it
Xref: g2news1.google.com rec.radio.amateur.homebrew:15086

Hi Michael,

msg wrote:

> I wouldn't mind seeing that article too...

if your address (minus underscores) is a valid one, you have mail :)

> in the '80s I built some common type replacements using jfets and
> bipolars and installed them in an HP scope.....

I think that we all may want to learn the knack: in a near future this
will probably be the only way to refurbish tube equipment... :)

Regards,
--
73 es 51 de i3hev, op. mario

Non � Radioamatore, se non gli fuma il saldatore!
- Campagna 2006 "Il Radioamatore non � uno che ascolta la radio"

it.hobby.radioamatori.moderato
http://digilander.libero.it/hamweb
http://digilander.libero.it/esperantovenezia

From -109952651247312177
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ITALIAN,ASCII
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
213.200.89.82.MISMATCH!tiscali!newsfeed1.ip.tiscali.net!draco.tiscalinet.it!news-
f2.tiscali.it!not-for-mail
Date: Tue, 15 Jan 2008 23:00:46 +0100
From: "i3hev, mario held" <marioheld@tiscali.it>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: it, en-US, eo, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article

```
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<478bda15$0$16036$5fc30a8@news.tiscali.it>
<COudnSYWppIMYhbanZ2dnUVZ_vCknZ2d@comcast.com>
<478d0fdb$0$21198$5fc30a8@news.tiscali.it> <13oq4md3naalia0@corp.supernews.com>
<478d2bfc$0$21206$5fc30a8@news.tiscali.it>
In-Reply-To: <478d2bfc$0$21206$5fc30a8@news.tiscali.it>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 19
Message-ID: <478d2cca$0$21206$5fc30a8@news.tiscali.it>
Organization: Tiscali SpA
NNTP-Posting-Host: 84.220.120.222
X-Trace: 1200434378 news.tiscali.it 21206 84.220.120.222:4429
X-Complaints-To: abuse@tiscali.it
Xref: g2news1.google.com rec.radio.amateur.homebrew:15087


i3hev, mario held wrote:

> Hi Michael,
>
> msg wrote: ....

er, apparently, this one went to the wrong place...
it was intended to be an answer to "msg"... :/

--
73 es 51 de i3hev, op. mario

Non � Radioamatore, se non gli fuma il saldatore!
- Campagna 2006 "Il Radioamatore non � uno che ascolta la radio"

it.hobby.radioamatori.moderato
http://digilander.libero.it/hamweb
http://digilander.libero.it/esperantovenezia


From -8739677194781997696
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out03a.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!spln!
extra.newsguy.com!sn-xt-sjc-02!sn-xt-sjc-11!sn-xt-sjc-06!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article
Date: Tue, 15 Jan 2008 16:12:33 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13oqbuu4sa7ocb9@corp.supernews.com>
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
X-Priority: 3
```

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 22
Xref: g2news1.google.com rec.radio.amateur.homebrew:15088

"Pete KE9OA" <p.gianako@comcast.net> wrote in message
news:--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com...
> Hi,
>
> Does anybody have a copy of the April 1977 QST? The article I am
> interested in the the one by Howard Sartori, entitled
> "solid tubes, a new life for old designs".
> If somebody could scan this article, I would be glad to pay them. Thanks!
>
> Pete KE9OA
>

If anyone could send this article (or these jpegs) to my Hotmail address it would be greatly appreciated. I too would like to update an old but beloved boat-anchor.

Dave
db5151@hotmail.com

From -2012373942734010703
X-Google-Thread: fc2a5,97a2d4f1eb574bc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews8.bellsouth.net.POSTED!aba369ab!
not-for-mail
Message-ID: <478D3B62.7030001@nettally.com>
From: **THE-RFI-EMI-GUY** <rhyolite@nettally.com>
Organization: Central Scrutinizer
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Syncing Up Multiple Magnetrons
References: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
     <478C411C.6000405@nettally.com> <8033605f-de21-44a9-851c-
a97ea49edea7@d70g2000hsb.googlegroups.com>
In-Reply-To: <8033605f-de21-44a9-851c-a97ea49edea7@d70g2000hsb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed

Content-Transfer-Encoding: 8bit
Lines: 59
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mabncmnekmdohbabdbdpiflmbcekedmfhojhikkbagflhcbohimnlekhippnncmifgbjfmcjiplkjmhnpd
kkniakbmhaegdabpeclalcloiihiplolehbjnpjajpnjhhichlhibfajdoiphklaelmjbbneffdfic
NNTP-Posting-Date: Tue, 15 Jan 2008 17:53:44 EST
Date: Tue, 15 Jan 2008 18:01:54 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:15089

You will probably have to add "magnetron " to your search terms.

Bert wrote:

>Ok I will look into injection locking.
>
>Thanks,
>Bert
>
>On Jan 15, 12:14 am, **THE-RFI-EMI-GUY** <rhyol...@nettally.com>
>wrote:
>
>
>>Try looking up "injection locking". Basically, you take a stable signal
>>and force it into the magnetron via a directional coupler or isolator.
>>The magnetron synchs with that signal. Multiple magnetrons might synch
>>to each other depending on the coupling between them. Maintaining proper
>>phase might still be an issue for the combiner method.
>>
>>Bert wrote:
>>
>>
>>>Does anyone in the group know anything about magnetrons? I planning to
>>>do some experiments in transmitting microwaves.
>>>
>>>
>>>I would like to use standard magnetrons from a microwave oven and
>>>believe I can beam further if operated at the same frequency and
>>>with the outputs in phase. I have no idea on how to do this. Please
>>>advise
>>>
>>>
>>>Cheers,
>>>Bert
>>>
>>>
>>--
>>Joe Leikhim K4SAT
>>"The RFI-EMI-GUY"�
>>
>>"Treason doth never prosper: what's the reason?
>>For if it prosper, none dare call it treason."

```
>>
>>"Follow The Money"  ;-P
>>
>>
>
>
>

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money"  ;-P



From -1256395501868378468
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
213.200.89.82.MISMATCH!tiscali!newsfeed1.ip.tiscali.net!newsfeed00.sul.t-
online.de!t-online.de!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article
Date: Tue, 15 Jan 2008 17:54:51 -0800
Organization: albasani.net
Lines: 19
Message-ID: <fmjo5b$ot6$1@news.albasani.net>
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net 1xPp/JI/
aDTI3o9wXZp9kuBPXTJDCWKf+w26vTDFzEx5LNYWTLHzuGonMb/OrTqf6uxVxKlpc/
WyRB89+l4apVEjxgRq01gpkIrPaL1VXVwyP0342r/5z49UWBdKT9Pb
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Wed, 16 Jan 2008 01:54:52 +0000 (UTC)
X-User-ID: uXFWaxbd9/28mI3eBl0qqItlzETFq2YZh8AjoPj/m3M=
In-Reply-To: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
Cancel-Lock: sha1:s/lU7waZOZxSxJgepALoAZVlNa8=
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
X-NNTP-Posting-Host: RarzNsuteBvgTyeFe64KaQoXieVruknujf069vVaiZc=
Xref: g2news1.google.com rec.radio.amateur.homebrew:15090

Pete KE9OA wrote:
> Hi,
>
> Does anybody have a copy of the April 1977 QST? The article I am interested
```

> in the the one by Howard Sartori, entitled
> "solid tubes, a new life for old designs".
> If somebody could scan this article, I would be glad to pay them. Thanks!
>
> Pete KE9OA
>
>

Well, I too would be interested in viewing this article--if there is anyone so kind:

assemblywizard@gmail.com

Regards,
JS

From 4071211273143591663
X-Google-Thread: fc2a5,48a4b2bf3b9faee6,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!wn13feed!worldnet.att.net!
bgtnsc04-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA:MATCH BOX BAND SW + OTHER STUFF
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <Wxejj.437587$kj1.164977@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: 2308d83be40904b8e14cf95a455686f9
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1200452854
2308d83be40904b8e14cf95a455686f9 (Wed, 16 Jan 2008 03:07:34 GMT)
NNTP-Posting-Date: Wed, 16 Jan 2008 03:07:34 GMT
Organization: AT&T Worldnet
Date: Wed, 16 Jan 2008 03:07:34 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15091

I have a NIB Johnson 275 Watt Match Box Band Switch + manuals and other stuff too:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

73 Heytubeguy

```
From 2183838953332564660
X-Google-Thread: 10c2ee,9968ee6b3ffa2ea9
X-Google-Thread: fc8b1,9968ee6b3ffa2ea9
X-Google-Thread: f4535,9968ee6b3ffa2ea9
X-Google-Thread: fc2a5,9968ee6b3ffa2ea9
X-Google-Attributes: gid10c2ee,gidfc8b1,gidf4535,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!f3g2000hsg.googlegroups.com!not-for-
mail
From: Bret Ludwig <bretldwig@yahoo.com>
Newsgroups: rec.antiques.radio+phono, rec.radio.amateur.boatanchors,
     rec.audio.tubes, rec.radio.amateur.homebrew
Subject: Re: New Triad Transformer online archive - official!
Date: Tue, 15 Jan 2008 19:41:42 -0800 (PST)
Organization: http://groups.google.com
Lines: 7
Message-ID: <85174d21-5033-4c8e-b647-285f90f29fe4@f3g2000hsg.googlegroups.com>
References: <EGkhj.6626$se5.2231@nlpi069.nbdc.sbc.com> <1c5ecf07-163c-4d9c-b7f9-
a5b63286e875@e6g2000prf.googlegroups.com>
NNTP-Posting-Host: 64.123.238.145
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1200454903 17873 127.0.0.1 (16 Jan 2008 03:41:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 16 Jan 2008 03:41:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: f3g2000hsg.googlegroups.com; posting-host=64.123.238.145;
     posting-account=MG47ZgoAAABs0wJm-Nv2NHjBE8Q9At7o
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; PPC Mac OS X Mach-O; en-US;
     rv:1.8.1.11) Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.antiques.radio+phono:90718
rec.radio.amateur.boatanchors:13759 rec.audio.tubes:48940
rec.radio.amateur.homebrew:15092
```

Interesting site but I would have preferred they be PDFed eady to go,
or else DjVu.

Still, a useful resource.

Triad made some good parts.

```
From 995829330144116 23
X-Google-Thread: fc2a5,97a2d4f1eb574bc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-
mail
From: Erich <n6fd@mchsi.com>
```

```
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Syncing Up Multiple Magnetrons
References: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
In-Reply-To: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
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Content-Transfer-Encoding: 7bit
Lines: 23
Message-ID: <tqfjj.37458$Ux2.4127@attbi_s22>
NNTP-Posting-Host: 12.219.245.122
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1200456473 12.219.245.122 (Wed, 16 Jan 2008 04:07:53 GMT)
NNTP-Posting-Date: Wed, 16 Jan 2008 04:07:53 GMT
Organization: AT&T ASP.att.net
Date: Wed, 16 Jan 2008 04:07:53 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15093

One microwave oven magnetron will get you pretty close to the legal
limit.  They can be injection locked together, but that usually requires
a circulator that can handle the necessary power (big $).  You also need
some way of adjusting the phase between the magnetrons so that the power
will add.  The adjustment can be tricky as they will tend to interact
even with the circulators.

73, Erich N6FD


Bert wrote:
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> do some experiments in transmitting microwaves.
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> I would like to use standard magnetrons from a microwave oven and
> believe I can beam further if operated at the same frequency and
> with the outputs in phase. I have no idea on how to do this. Please
> advise
>
> Cheers,
> Bert
>
>



From -7029039433056947602
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 16 Jan 2008 00:36:15 -0600
From: "Jim" <kill-spam@no-spam.org>
Newsgroups: rec.radio.amateur.homebrew
```

References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com> <14-dnXR0YdEh1xHanZ2dnUVZ_v2pnZ2d@comcast.com> <armdnbquno4q-BHanZ2dnUVZ_sudnZ2d@comcast.com>
Subject: Re: April 1977 QST article
Date: Tue, 15 Jan 2008 22:36:15 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 080115-0, 01/15/2008), Outbound message
X-Antivirus-Status: Clean
Message-ID: <rvydnYKVdeF9OBDanZ2dnUVZ_vumnZ2d@comcast.com>
Lines: 25
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.181.200.74
X-Trace: sv3-zls/qDuRLs2Gqlj+TmQSA5tJtvn+u/Xjo5QMvfQIlsSVpf4qnyYC6evKGUt6Ewigg08w0s4PdicVofa!HWoIdXNU8JeN3qv6M4ccwgRHf90yXJ5vJkRTI5mc9mW8G10gCgeWX/Nh0RU1ruv4iCERHss0i0NK!MLDxUAeCsaTp0jQjq5qE+qSGoIHrdg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15094

Dual Gate MosFets are convenient for a tube replacement....

As I recall, I rectified the old filament voltage, regulated it, and made that the new "plate" voltage. Other than that, JFETs and, when necessary, Dual Gate MosFETs did most of the work.

Well, had to mess with the "grid" bias resistors too.

OK, so I used an audio Amp IC for the last part of the audio chain. Still, all in all, the conversions I did were surprisingly easy.

Jim

--

22:34 Pacific Time Zone
Jan 15 2008

International Time
06:34 UTC
16.01.2008

```
From 4416317879397454604
X-Google-Thread: fc2a5,97a2d4f1eb574bc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!i7g2000prf.googlegroups.com!not-for-
mail
From: Bert <hcm1955@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Syncing Up Multiple Magnetrons
Date: Wed, 16 Jan 2008 13:07:19 -0800 (PST)
Organization: http://groups.google.com
Lines: 35
Message-ID: <719247d4-dfdf-4ce3-94ba-c8c3ab04e0d2@i7g2000prf.googlegroups.com>
References: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
     <tqfjj.37458$Ux2.4127@attbi_s22>
NNTP-Posting-Host: 192.91.147.34
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1200517640 12927 127.0.0.1 (16 Jan 2008 21:07:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 16 Jan 2008 21:07:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i7g2000prf.googlegroups.com; posting-host=192.91.147.34;
     posting-account=mdUWtwkAAADoT_k61zBNbjGaOg_ho0GM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     Lockheed Martin TSS; InfoPath.1; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15095
```

Show how much are circulators?. For the phase can I add an adjustable
delay?

Again Thanks,
Bert

On Jan 15, 11:07=A0pm, Erich <n...@mchsi.com> wrote:
> One microwave oven magnetron will get you pretty close to the legal
> limit. =A0They can be injection locked together, but that usually requires=
>
> a circulator that can handle the necessary power (big $). =A0You also need=
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>
> > Cheers,
> > Bert- Hide quoted text -
>
> - Show quoted text -

From 6754037283788914890
X-Google-Thread: fc2a5,97a2d4f1eb574bc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews8.bellsouth.net.POSTED!aba369ab!not-for-mail
From: **THE-RFI-EMI-GUY** <rhyolite@nettally.com>
Organization: Central Scrutinizer
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Syncing Up Multiple Magnetrons
References: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
     <tqfjj.37458$Ux2.4127@attbi_s22> <719247d4-dfdf-4ce3-94ba-c8c3ab04e0d2@i7g2000prf.googlegroups.com>
In-Reply-To: <719247d4-dfdf-4ce3-94ba-c8c3ab04e0d2@i7g2000prf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
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Lines: 70
Message-ID: <WwBjj.54124$vt2.36256@bignews8.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace: mabncmnekmdohbabdbdpiflmbcekedmfhojhikkbagflhcbodhjnffookieinbciloepocgenbdneclapdkkniakbmhaegdabppiejolejcelckfgibfakmlhmoebdljmdafgofbknecjiookbplmeacnfkebomf
NNTP-Posting-Date: Thu, 17 Jan 2008 00:16:38 EST
Date: Thu, 17 Jan 2008 00:24:53 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:15096

Circulators are pretty pricy. You will need at least one to keep the high power energy from each magnetron from getting back into the injection source. I read somewhere that about 2% of the magnetron power is required to injection lock. As far as phase, you will need a mechanical or electrical means to adjust the phase of the legs of the injection signals as well as a means to adjust the phase of the magnetrons when combining them. Typically a peice of coax or waveguide of some fraction of a wavelength as require IE; 1/4 wave = 90 degrees. Coax has a velocity factor which makes it behave electrically longer than it is physically.

I am guessing, but perhaps with proper coupling technique, you might get the magnetrons to lock to each other coherently.

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>>>with the outputs in phase. I have no idea on how to do this. Please
>>>advise
>>>
>>>
>>>Cheers,
>>>Bert- Hide quoted text -
>>>
>>>
>>- Show quoted text -
>>
>>
>

>
>

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From -5363578106195084290
X-Google-Thread: fc2a5,b97534b2a1062f0b,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 17 Jan 2008 03:23:35 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Ferrite loop antenna for LW/MW band
Date: Thu, 17 Jan 2008 03:23:43 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <dcadnZsBbpgKgxLanZ2dnUVZ_v2pnZ2d@comcast.com>
Lines: 13
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.239.37.56
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kluQgDWyetkTYBNKWEGeEUido7o2UbAsT4vQpGhBfUY9OxsrGWET1m0hQ49ihj7bX7OzJmVoh9XpRPi!
U1+zYO29BiQPE7RVDAT8l+qdUXCqu7mEq0Ps+wGNceQ13RoAyPg26mJJVYo7txk+yboQpn1H1Gpe!
eemItK33zAxP4laeKmXKcUOoQTgd
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15097

Hi,

Is there any kind of program that makes the calculations a bit easier? If I
knew how to do the calculations, I could throw the formula into a
spreadsheet. What I need to do is calculate the inductance with the
parameters of cross sectional area, length, position on the ferrite rod,

number of turns, and permeability of the ferrite material itself.
I would like to throw these parameters into the spreadsheet/program, and let
the software calculate the inductance for me.

Pete

From 2039496981375857555
X-Google-Thread: fc2a5,97a2d4f1eb574bc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!q39g2000hsf.googlegroups.com!not-for-mail
From: Bert <hcm1955@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Syncing Up Multiple Magnetrons
Date: Thu, 17 Jan 2008 03:40:44 -0800 (PST)
Organization: http://groups.google.com
Lines: 76
Message-ID: <2e9fdb7b-4fa7-4140-b921-debf982a5ba5@q39g2000hsf.googlegroups.com>
References: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
     <tqfjj.37458$Ux2.4127@attbi_s22> <719247d4-dfdf-4ce3-94ba-c8c3ab04e0d2@i7g2000prf.googlegroups.com>
     <WwBjj.54124$vt2.36256@bignews8.bellsouth.net>
NNTP-Posting-Host: 192.91.147.34
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1200570045 8413 127.0.0.1 (17 Jan 2008 11:40:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 17 Jan 2008 11:40:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q39g2000hsf.googlegroups.com; posting-host=192.91.147.34;
     posting-account=mdUWtwkAAADoT_k61zBNbjGaOg_ho0GM
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     Lockheed Martin TSS; InfoPath.1; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15098

Hi Joe,

Thank you the info. Is it required to cross couple them, or can I use
one magnetron as a "master" that injects into 3 to 5 other "slave"
magnetrons? I will post the results of my effort. Again thanks.

Cheers,
Bert

On Jan 17, 12:24=A0am, **THE-RFI-EMI-GUY** <rhyol...@nettally.com>
wrote:
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```
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> Coax has a velocity factor which makes it behave electrically longer
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>
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es
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>
> >>>Cheers,
> >>>Bert- Hide quoted text -
>
> >>- Show quoted text -
>
```

```
> --
> Joe Leikhim K4SAT
> "The RFI-EMI-GUY"=A9
>
> "Treason doth never prosper: what's the reason?
> For if it prosper, none dare call it treason."
>
> "Follow The Money" =A0;-P- Hide quoted text -
>
> - Show quoted text -



From -1682313535991561 51
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!t1g2000pra.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article
Date: Thu, 17 Jan 2008 05:57:07 -0800 (PST)
Organization: http://groups.google.com
Lines: 21
Message-ID: <bae1f5e5-f66e-4237-a891-7fa22a8326dc@t1g2000pra.googlegroups.com>
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
     <478bda15$0$16036$5fc30a8@news.tiscali.it>
<COudnSYWppIMYhbanZ2dnUVZ_vCknZ2d@comcast.com>
     <478d0fdb$0$21198$5fc30a8@news.tiscali.it>
<13oq4md3naalia0@corp.supernews.com>
     <478d2bfc$0$21206$5fc30a8@news.tiscali.it>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1200578228 687 127.0.0.1 (17 Jan 2008 13:57:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 17 Jan 2008 13:57:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t1g2000pra.googlegroups.com; posting-host=170.121.15.35;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15099

On Jan 15, 4:57=A0pm, "i3hev, mario held" <marioh...@tiscali.it> wrote:
> Hi Michael,
>
> msg wrote:
> > I wouldn't mind seeing that article too...
>
```

> if your address (minus underscores) is a valid one, you have mail :)
>
> > in the '80s I built some common type replacements using jfets and
> > bipolars and installed them in an HP scope.....
>
> I think that we all may want to learn the knack: in a near future this
> will probably be the only way to refurbish tube equipment... :)

I see huge lots of mil-surplus 6AU6's, 6CL6's, 6BA6's, 6AK5's etc.
moving through the surplus channels all the time, still.

Someday we'll run out but I suspect that transistors will be obsolete
before we use all those tubes up!

Tim.

```
From 6159931769941351976
X-Google-Thread: fc2a5,b97534b2a1062f0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder3.cambrium.nl!feeder2.cambrium.nl!
feed.tweaknews.nl!193.201.147.87.MISMATCH!news.astraweb.com!
border2.a.newsrouter.astraweb.com!hwmnpeer01.ams!news.highwinds-media.com!
kramikske.telenet-ops.be!nntp.telenet.be!kwabbernoot.telenet-ops.be!
phobos.telenet-ops.be.POSTED!not-for-mail
Subject: Re: Ferrite loop antenna for LW/MW band
From: Dirk Claessens <No@way.invalid>
References: <dcadnZsBbpgKgxLanZ2dnUVZ_v2pnZ2d@comcast.com>
Newsgroups: rec.radio.amateur.homebrew
Message-ID: <mn.8b8f7d81738e52bc.59994@way.invalid>
Organization: BicycleRepairMan@Monthy.Python
X-Newsreader: MesNews/1.07.00.00-nl
MIME-Version: 1.0
X-Face: $Kz5Q!xCJlz+J"JNv[!,.0V8XE[2,3@0LEw6:^j]rY%fXf).OUW21HrTG]A-z0HC_KVUIJ8
PdI:,gm0/IEFd#lM5nM\1?>/{9avsjehiZOkm/$t\"&4Qf\\:f`gCfi0\BN?!#~0UO.bpKI;TgW'3=
'^v7Ve'B2MmT$6^9`F]8P..3[IZZ~~tZ@m/)X"?`2pFYpeRYSGh1C#QE@(a6#!8A}4c(?JvK3xjX~E
0zoGk|96sUP.o@zij`'>I-%Iu9anBnU:pn/P]?Z&X22%\h`p'-6CPiVQnvcc"5oS<'kSTAl}M`f9GZ j2?
Tz+.<Em?sI?x]#?NOd!>2cGV0a
Reply-To: No@way.invalid
Content-Type: text/plain; charset="iso-8859-15"; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 26
Date: Thu, 17 Jan 2008 14:11:21 GMT
NNTP-Posting-Host: 84.195.29.161
X-Complaints-To: abuse@telenet.be
X-Trace: phobos.telenet-ops.be 1200579081 84.195.29.161 (Thu, 17 Jan 2008 15:11:21
MET)
NNTP-Posting-Date: Thu, 17 Jan 2008 15:11:21 MET
Xref: g2news1.google.com rec.radio.amateur.homebrew:15100
```

On 2008-01-17,   Pete KE9OA (71.239.37.56) wrote in
message <dcadnZsBbpgKgxLanZ2dnUVZ_v2pnZ2d@comcast.com>

> Hi,
>
> Is there any kind of program that makes the calculations a bit easier? If I
> knew how to do the calculations, I could throw the formula into a
> spreadsheet. What I need to do is calculate the inductance with the
> parameters of cross sectional area, length, position on the ferrite rod,
> number of turns, and permeability of the ferrite material itself.
> I would like to throw these parameters into the spreadsheet/program, and let
> the software calculate the inductance for me.
>
> Pete

Have a look here, see section 2 "Practical antenna design"

<http://www.c-maxgroup.com/tech/antenna.php>

--
Dirk.
No trees were killed in the creation of this message;
however, many electrons were terribly inconvenienced.

From -5113378571231821958
X-Google-Thread: fc2a5,b97534b2a1062f0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <dcadnZsBbpgKgxLanZ2dnUVZ_v2pnZ2d@comcast.com>
<mn.8b8f7d81738e52bc.59994@way.invalid>
Subject: Re: Ferrite loop antenna for LW/MW band
Lines: 34
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <UqMjj.39622$Ux2.21213@attbi_s22>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1200591668 12.219.135.201 (Thu, 17 Jan 2008 17:41:08 GMT)
NNTP-Posting-Date: Thu, 17 Jan 2008 17:41:08 GMT
Organization: AT&T ASP.att.net
Date: Thu, 17 Jan 2008 17:41:08 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:15101

>> Is there any kind of program that makes the calculations a bit easier? If
>> I knew how to do the calculations, I could throw the formula into a
>> spreadsheet. What I need to do is calculate the inductance with the
>> parameters of cross sectional area, length, position on the ferrite rod,
>> number of turns, and permeability of the ferrite material itself.
>> I would like to throw these parameters into the spreadsheet/program, and
>> let the software calculate the inductance for me.
>>
>> Pete

GM Pete. Sorry I had to be short on the telephone call, I had a doctors appointment and was running late already. WRT your "antenna problem or opportunity". I made an antenna for WWVB, and also use it for NAA at 24 KHz by adding an additional cap across it for resonance down there. It's better heads and shoulders than any ferrite antenna I ever made. 24 inch bicycle wheel, spokes removed and a space made in the wheel continuity by sawing it apart and adding a small block of wood. This also serves to hold an old ARCO tuning cap of high value, and an instrumentation amplifier made from three LM833 op amps.

A layer of shipping plastic foam between the rim and 120 turns of HPT wire (#26 is a good number), then wrap it all up with a bit of squeezed on aluminum wrap. (Also not continuous, and grounded at the spacer.)

With the inst, amp set for 60 dB of gain, I receive WWVB at about -40 dBm into the 50 Ohm input to a HP selective Voltmeter. Best ever ferrite was around 30 dB worse than this. I use it almost continuously for NAA monitoring of SIDs, and they never go out of detection even in the basement workshop.

Regards and happy New Year.
W4ZCB

From 3312524659077064057
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!sn-xt-sjc-02!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article
Date: Thu, 17 Jan 2008 13:03:50 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13ov989erjuvec1@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>

```
In-Reply-To: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 18
Xref: g2news1.google.com rec.radio.amateur.homebrew:15102

Pete KE9OA wrote:

> Hi,
>
> Does anybody have a copy of the April 1977 QST? The article I am interested
> in the the one by Howard Sartori, entitled
> "solid tubes, a new life for old designs".
> If somebody could scan this article, I would be glad to pay them. Thanks!
>
> Pete KE9OA
>
>

I made a pdf from i3hev's scans and will gladly email it to anyone who asks.

Regards,

Michael


From 6740656465296889434
X-Google-Thread: fc2a5,b97534b2a1062f0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!sn-xt-sjc-04!sn-xt-sjc-01!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ferrite loop antenna for LW/MW band
Date: Thu, 17 Jan 2008 13:05:50 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13ov9c1qm5dpd75@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <dcadnZsBbpgKgxLanZ2dnUVZ_v2pnZ2d@comcast.com>
<mn.8b8f7d81738e52bc.59994@way.invalid> <UqMjj.39622$Ux2.21213@attbi_s22>
In-Reply-To: <UqMjj.39622$Ux2.21213@attbi_s22>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 14
Xref: g2news1.google.com rec.radio.amateur.homebrew:15103

Harold E. Johnson wrote:
```

> I made an antenna for WWVB, and also use it for NAA at 24 KHz
> by adding an additional cap across it for resonance down there. It's better
> heads and shoulders than any ferrite antenna I ever made. 24 inch bicycle
> wheel,...

Please consider photographing this device from a number of angles,
annotating the images with construction data, and making the results
available. I am very interested.

Regards,

Michael

From 3878068383641263084
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-sjc-08!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article
Date: Thu, 17 Jan 2008 13:12:56 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13ov9pbnkj38p0a@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<13ov989erjuvec1@corp.supernews.com>
In-Reply-To: <13ov989erjuvec1@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 23
Xref: g2news1.google.com rec.radio.amateur.homebrew:15104

msg wrote:

> Pete KE9OA wrote:
>
>> Hi,
>>
>> Does anybody have a copy of the April 1977 QST? The article I am
>> interested in the the one by Howard Sartori, entitled
>> "solid tubes, a new life for old designs".
>> If somebody could scan this article, I would be glad to pay them. Thanks!
>>
>> Pete KE9OA
>>

>
> I made a pdf from i3hev's scans and will gladly email it to anyone who
> asks.
>

I tried emailing to mario, i3hev, but it bounced (user unknown) using the
'From' and 'Return-path' addresses from his email to me. Anyway, thanks
mario for the scans.

Michael

From -8750265355553934151
X-Google-Thread: fc2a5,9e6de777e3c73fa6,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder3.cambrium.nl!feed.tweaknews.nl!
newsfeed0.kamp.net!newsfeed.kamp.net!fu-berlin.de!uni-berlin.de!individual.net!
not-for-mail
From: Holger Doerschel <newsgroups@pt100.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Datailed photos of EB104-Board
Date: Thu, 17 Jan 2008 22:16:53 +0100
Lines: 14
Message-ID: <5v9uu5F1liu0cU1@mid.individual.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net MzchqLWicg6VuyZ9ZDw7jwi8rBGARJWD5ltu4AkVZ91gIwx3Vj
Cancel-Lock: sha1:rdeb0uxeISl5ojruMVppYmWqFPU=
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:15105

Hello,

I bought the EB104 kit from CCI. The documentation is a little bit poor
(black and white, poor copy). Has anyone dedailed photos of the assembled
board?

And:
Has anybody some informations of an appicable low-pass filter or an diplexer
(all bands inc. warc)?

best regards

Holger / DL9HDA

From 3906381622278323910
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII

Path: g2news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!newsfeed00.sul.t-
online.de!t-online.de!tiscali!newsfeed1.ip.tiscali.net!draco.tiscalinet.it!news-
f2.tiscali.it!not-for-mail
Date: Thu, 17 Jan 2008 23:11:04 +0100
From: "i3hev, mario held" <marioheld@tiscali.it>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: it, en-US, eo, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<13ov989erjuvec1@corp.supernews.com> <13ov9pbnkj38p0a@corp.supernews.com>
In-Reply-To: <13ov9pbnkj38p0a@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 19
Message-ID: <478fd235$0$26143$5fc30a8@news.tiscali.it>
Organization: Tiscali SpA
NNTP-Posting-Host: 78.12.138.151
X-Trace: 1200607797 news.tiscali.it 26143 78.12.138.151:1624
X-Complaints-To: abuse@tiscali.it
Xref: g2news1.google.com rec.radio.amateur.homebrew:15106

msg wrote:

> I tried emailing to mario, i3hev, but it bounced... Anyway, thanks...

you're welcome :)

I'm a bit worried about the bounces, I only use valid addresses - oh,
well, mysteries of the network... :-o

Ciao!
--
73 es 51 de i3hev, op. mario

Non � Radioamatore, se non gli fuma il saldatore!
- Campagna 2006 "Il Radioamatore non � uno che ascolta la radio"

it.hobby.radioamatori.moderato
http://digilander.libero.it/hamweb
http://digilander.libero.it/esperantovenezia

From 6551065341823960526
X-Google-Thread: fc2a5,9e6de777e3c73fa6
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.germany.com!newsfeed.freenet.de!
news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Datailed photos of EB104-Board
Date: Thu, 17 Jan 2008 14:12:50 -0800
Organization: albasani.net
Lines: 23
Message-ID: <fmojsu$38g$3@news.albasani.net>
References: <5v9uu5F1liu0cU1@mid.individual.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net UrfZTdEgdOXcZNSaOjRJ/8ACelbV/
JVYMtsA+4JtwWADXWlM6OXaaOqqrLLP+FPX0V5wA39t3k8CMrttxmd/
aPvU6w1t9fZ7EiWVTU685u1t7tKeHejChUYlLZQhz9s6
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Thu, 17 Jan 2008 22:12:46 +0000 (UTC)
X-User-ID: ei52yKisT7MW9rzzDBzUUr1pEdWRCKvT1pmwL2pPxLA=
In-Reply-To: <5v9uu5F1liu0cU1@mid.individual.net>
Cancel-Lock: sha1:Xs2xyQBXirmxAaiRp8u36m6hrC8=
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
X-NNTP-Posting-Host: Tu798IW/HUwrWPUcyHB6EuJ8EywQN2q2dPP8De3M9hU=
Xref: g2news1.google.com rec.radio.amateur.homebrew:15107

Holger Doerschel wrote:
> Hello,
>
> I bought the EB104 kit from CCI. The documentation is a little bit poor
> (black and white, poor copy). Has anyone dedailed photos of the assembled
> board?
>
> And:
> Has anybody some informations of an appicable low-pass filter or an diplexer
> (all bands inc. warc)?
>
>
> best regards
>
> Holger / DL9HDA

Some useful info on that board here, along with a populated board image,
albeit rather poor:

http://www.qsl.net/wm5z/HF%20Amplifier.htm

Regards,
JS

From -3663607033300120086
X-Google-Thread: fc2a5,9e6de777e3c73fa6
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.germany.com!news.buerger.net!
news.albasani.net!not-for-mail

From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Datailed photos of EB104-Board
Date: Thu, 17 Jan 2008 14:20:18 -0800
Organization: albasani.net
Lines: 26
Message-ID: <fmokau$38g$4@news.albasani.net>
References: <5v9uu5F1liu0cU1@mid.individual.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net 4EMTRyLiSQu4kyeMmLEdrpK5bsDJuqyq0XsRg7EH96/
kIdhc9IYHB1FQHaSSmY0Eu7QGT78nUubWayTupSNsCdyifiKm69oLsidUV4WIy5DZuEn4UosHHIDyhRwvZ
Z7t
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Thu, 17 Jan 2008 22:20:14 +0000 (UTC)
X-User-ID: qbC8uZLFumaDVmV2Sv4aftmAhIZCe5IgUb2Ydm7dbqU=
In-Reply-To: <5v9uu5F1liu0cU1@mid.individual.net>
Cancel-Lock: sha1:QFHO+kJ86pHqRfFVl882dP5Lhmo=
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
X-NNTP-Posting-Host: LXephkYfQV7o7cCb+7a8aTZVrg7kkUayCWRSG/WgH24=
Xref: g2news1.google.com rec.radio.amateur.homebrew:15108

Holger Doerschel wrote:
> Hello,
>
> I bought the EB104 kit from CCI. The documentation is a little bit poor
> (black and white, poor copy). Has anyone dedailed photos of the assembled
> board?
>
> And:
> Has anybody some informations of an appicable low-pass filter or an diplexer
> (all bands inc. warc)?
>
>
> best regards
>
> Holger / DL9HDA

By the way, when visiting metal scrappers, I have often noticed large
stacks of motorola business/gov't radio equipment. I have bought these
for $0.50 USD a pound, on up ...

Great source of high output transistors/parts/heat-sinks/etc. In some
instances, the amp board can be removed from equip. with the
corresponding heat sink and mated up with a proper driver.

Regards,
JS

From 9096556925801691612
X-Google-Thread: fc2a5,27dd915fab694f57

```
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 17 Jan 2008 16:48:19 -0600
Message-Id: <6e2565-mga.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: Re: April 1977 QST article
Newsgroups: rec.radio.amateur.homebrew
Date: Thu, 17 Jan 2008 16:45:58 -0600
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<13ov989erjuvec1@corp.supernews.com>
Organization: the clifto consortium
User-Agent: KNode/0.10.5
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 8
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.15.125.52
X-Trace: sv3-dt84jaLyMaMpnlVOkepd6GZVIRWMiNVfhoC40no/v4LZsaftMrNgv/
3mJPQqEkXYYrztBm4pZdO8b5k!
oeJ5l80QIqNLPhElW1pLoI7JGeTKdAwZrFjQdOhEuZGJF8vJhFEnNyxNEVQ+1YaNqUvOr8lH90kC!
TGWlT1VK/Lvv
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15109

msg wrote:
> I made a pdf from i3hev's scans and will gladly email it to anyone who asks.

I'd love a copy. My e-mail address is good.

--
        If John McCain gets the 2008 Republican Presidential nomination,
           my vote for President will be a write-in for Jiang Zemin.


From -5200346613603905689
X-Google-Thread: fc2a5,97a2d4f1eb574bc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!out03b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews3.bellsouth.net.POSTED!aba369ab!not-for-mail
From: **THE-RFI-EMI-GUY** <rhyolite@nettally.com>
```

```
Organization: Central Scrutinizer
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Syncing Up Multiple Magnetrons
References: <9d1040ff-8a30-4443-8bc7-dc5991daf999@v67g2000hse.googlegroups.com>
     <tqfjj.37458$Ux2.4127@attbi_s22> <719247d4-dfdf-4ce3-94ba-
c8c3ab04e0d2@i7g2000prf.googlegroups.com>
<WwBjj.54124$vt2.36256@bignews8.bellsouth.net> <2e9fdb7b-4fa7-4140-b921-
debf982a5ba5@q39g2000hsf.googlegroups.com>
In-Reply-To: <2e9fdb7b-4fa7-4140-b921-debf982a5ba5@q39g2000hsf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 109
Message-ID: <GcSjj.74691$L%6.37730@bignews3.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcbogmlhipbegnhikallfgbjfmcjiplkjmhnpd
kkniakbmhaegdabppiejolejcelckfgibfakmlhmoebdljghdjecjhhckjnbgkdkfogmllmgooicfm
NNTP-Posting-Date: Thu, 17 Jan 2008 19:15:34 EST
Date: Thu, 17 Jan 2008 19:23:50 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:15110
```

Bert wrote:

>Hi Joe,
>
>Thank you the info. Is it required to cross couple them, or can I use
>one magnetron as a "master" that injects into 3 to 5 other "slave"
>magnetrons? I will post the results of my effort. Again thanks.
>
>Cheers,
>Bert
>
>On Jan 17, 12:24 am, **THE-RFI-EMI-GUY** <rhyol...@nettally.com>
>wrote:
>
>
>>Circulators are pretty pricy. You will need at least one to keep the
>>high power energy from each magnetron from getting back into the
>>injection source. I read somewhere that about 2% of the magnetron power
>>is required to injection lock. As far as phase, you will need a
>>mechanical or electrical means to adjust the phase of the legs of the
>>injection signals as well as a means to adjust the phase of the
>>magnetrons when combining them. Typically a peice of coax or waveguide
>>of some fraction of a wavelength as require IE; 1/4 wave = 90 degrees.
>>Coax has a velocity factor which makes it behave electrically longer
>>than it is physically.

>>
>>I am guessing, but perhaps with proper coupling technique, you might get
>>the magnetrons to lock to each other coherently.
>>
>>
>>
>>
>>
>>Bert wrote:
>>
>>
>>>Show how much are circulators?. For the phase can I add an adjustable
>>>delay?
>>>
>>>
>>>Again Thanks,
>>>Bert
>>>
>>>
>>>On Jan 15, 11:07 pm, Erich <n...@mchsi.com> wrote:
>>>
>>>
>>>>One microwave oven magnetron will get you pretty close to the legal
>>>>limit. They can be injection locked together, but that usually requires
>>>>a circulator that can handle the necessary power (big $). You also need
>>>>some way of adjusting the phase between the magnetrons so that the power
>>>>will add. The adjustment can be tricky as they will tend to interact
>>>>even with the circulators.
>>>>
>>>>
>>>>73, Erich N6FD
>>>>
>>>>
>>>>Bert wrote:
>>>>
>>>>
>>>>>Does anyone in the group know anything about magnetrons? I planning to
>>>>>do some experiments in transmitting microwaves.
>>>>>
>>>>>
>>>>>I would like to use standard magnetrons from a microwave oven and
>>>>>believe I can beam further if operated at the same frequency and
>>>>>with the outputs in phase. I have no idea on how to do this. Please
>>>>>advise
>>>>>
>>>>>
>>>>>Cheers,
>>>>>Bert- Hide quoted text -
>>>>>
>>>>>
>>>>- Show quoted text -
>>>>
>>>>

>>--
>>Joe Leikhim K4SAT
>>"The RFI-EMI-GUY"�
>>
>>"Treason doth never prosper: what's the reason?
>>For if it prosper, none dare call it treason."
>>
>>"Follow The Money" ;-P- Hide quoted text -
>>
>>- Show quoted text -
>>
>>
>
>
>
Its only going to be as stable as the master. There is also some discussion about the Q of the cavity. If the Q is too high, the ability to "pull" the frequency will be restricted. I am afraid you are playing in the sandbox of experimentation. Best of luck and don't fry yourself!

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From 1025277677867858836
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!newsgate.cistron.nl!xs4all!feeder.news-service.com!sn-xt-ams-06!sn-xt-ams-03!sn-post-ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: April 1977 QST article
Date: Thu, 17 Jan 2008 23:34:37 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13p0ejh8809ik91@corp.supernews.com>
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<13ov989erjuvec1@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-Complaints-To: abuse@supernews.com
Lines: 32

Xref: g2news1.google.com rec.radio.amateur.homebrew:15111

"msg" <msg@_cybertheque.org_> wrote in message
news:13ov989erjuvec1@corp.supernews.com...
> Pete KE9OA wrote:
>
>> Hi,
>>
>> Does anybody have a copy of the April 1977 QST? The article I am
>> interested in the the one by Howard Sartori, entitled
>> "solid tubes, a new life for old designs".
>> If somebody could scan this article, I would be glad to pay them. Thanks!
>>
>> Pete KE9OA
>
> I made a pdf from i3hev's scans and will gladly email it to anyone who
> asks.
>
> Regards,
>
> Michael

I would *love* a copy. My Hotmail address should work, but if it bounces
for any reason, try
d b e a n e (at) p d q (dot) n e t

That one *will* work.

Many thanks,

Dave

From -3244795721957118515
X-Google-Thread: fc2a5,a8c0bef4a0360fc6
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m34g2000hsb.googlegroups.com!not-for-mail
From: Bob <bob3635x@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Soldering surface mount etc, new set of videos
Date: Thu, 17 Jan 2008 22:19:41 -0800 (PST)
Organization: http://groups.google.com
Lines: 13
Message-ID: <06d0884f-12f7-4f0f-903b-8f4c03e1d16c@m34g2000hsb.googlegroups.com>
References: <47539fbf$0$4014$afc38c87@news.optusnet.com.au>
     <885b6413-162a-4aec-828a-498e990c3108@d4g2000prg.googlegroups.com>
     <4c44d49a-f145-49de-b2f6-0fe28e12523d@y5g2000hsf.googlegroups.com>
NNTP-Posting-Host: 76.200.103.49

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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1200637181 16507 127.0.0.1 (18 Jan 2008 06:19:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 18 Jan 2008 06:19:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m34g2000hsb.googlegroups.com; posting-host=76.200.103.49;
     posting-account=9tV1tQoAAADpRQ3o8hsy3bFVYxLi8l1c
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.8.1.8)
     Gecko/20071008 Iceape/1.1.5 (Ubuntu-1.1.5-1ubuntu0.7.10),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15112

On Dec 5 2007, 3:34 am, bigorangebus <bigorange...@yahoo.com> wrote:
> Small devices like 0602, 0805 components

Small?  0603 and 0805 devices are HUGE.  I have to
solder 0402 and 0201 parts.  The best way to do this
is to use a needle to apply small dabs of slow setting
epoxy on the PCB (between the pads), and then place
the devices with tweezers.  Once all the devices are
placed, let the epoxy cure for a few hours (you can
speed up the curing by using a warm oven).  Then
apply the solder paste.  A low power microscope
(10x to 30x) is a big help.




From -1368763411606797495
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!newsfeed01.sul.t-
online.de!newsfeed00.sul.t-online.de!t-online.de!tiscali!newsfeed1.ip.tiscali.net!
draco.tiscalinet.it!news-f1.tiscali.it!not-for-mail
From: "Meregalli" <merega@tiscali.it>
Newsgroups: rec.radio.amateur.homebrew
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<13ov989erjuvec1@corp.supernews.com>
Subject: Re: April 1977 QST article
Date: Fri, 18 Jan 2008 14:11:56 +0100
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-Antivirus: avast! (VPS 080117-0, 17/01/2008), Outbound message
```

X-Antivirus-Status: Clean
Lines: 26
Message-ID: <4790a5d3$0$16039$5fc30a8@news.tiscali.it>
Organization: Tiscali SpA
NNTP-Posting-Host: 84.223.118.249
X-Trace: 1200661972 news.tiscali.it 16039 84.223.118.249:4096
X-Complaints-To: abuse@tiscali.it
Xref: g2news1.google.com rec.radio.amateur.homebrew:15113

msg wrote:
> Pete KE9OA wrote:
>
>> Hi,
>>
>> Does anybody have a copy of the April 1977 QST? The article I am
>> interested in the the one by Howard Sartori, entitled
>> "solid tubes, a new life for old designs".
>> If somebody could scan this article, I would be glad to pay them.
>> Thanks!
>>
>> Pete KE9OA
>>
>>
>
> I made a pdf from i3hev's scans and will gladly email it to anyone
> who
> asks.
> Regards,
>
> Michael

Would you be so kind to send me the sad pdf?
My Email is good
Luca

From -6750645551185439803
X-Google-Thread: fc2a5,b97534b2a1062f0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 18 Jan 2008 23:19:31 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <dcadnZsBbpgKgxLanZ2dnUVZ_v2pnZ2d@comcast.com>
<mn.8b8f7d81738e52bc.59994@way.invalid> <UqMjj.39622$Ux2.21213@attbi_s22>
Subject: Re: Ferrite loop antenna for LW/MW band
Date: Fri, 18 Jan 2008 23:19:39 -0600
X-Priority: 3
X-MSMail-Priority: Normal

X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <luKdnbxXy6j-FQzanZ2dnUVZ_gudnZ2d@comcast.com>
Lines: 50
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.239.37.56
X-Trace: sv3-iLXpP0w8w/IPy2cYgMZM+IgczCWnT51sZ3CKRM84VNvdpuZZawiMu/tbTAr38Xn/ImzTOhGFTfY5cPd!1zUq48q7MJtfS/Ht7hL9BK+RzKFaB7n7/BgMVcms6dDCxVO4PLaEne7PLCCihPH0fUP2o9TZvhQW!5kGRR7B/zmPLzMYXqUSB/W8ApCLg
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15114

Thanks Harold...........I whill give it a whirl. For the past few days, I have been experimenting with the ferrite loopstick. Either winding works ok (LW or MW), but if the LW winding is connected, it appears to cause some self resonance problems with the MW winding in the middle of the band, unless I ground both ends of the LW winding. Right now, I am trying a multi-layer winding for the LW section to see if I can eliminate the interraction. It should work..........my Grundig Satellit 3400 appears to use this principle, unless there is a seperate pickup winding for each band. Oh, about the call..............don't worry about it. I had to go to the doctor myself today. Must keep appointments!

Pete

"Harold E. Johnson" <W4ZCB@mchsi.com> wrote in message news:UqMjj.39622$Ux2.21213@attbi_s22...
>>> Is there any kind of program that makes the calculations a bit easier?
>>> If I knew how to do the calculations, I could throw the formula into a
>>> spreadsheet. What I need to do is calculate the inductance with the
>>> parameters of cross sectional area, length, position on the ferrite rod,
>>> number of turns, and permeability of the ferrite material itself.
>>> I would like to throw these parameters into the spreadsheet/program, and
>>> let the software calculate the inductance for me.
>>>
>>> Pete
>
> GM Pete. Sorry I had to be short on the telephone call, I had a doctors
> appointment and was running late already. WRT your "antenna problem or
> opportunity". I made an antenna for WWVB, and also use it for NAA at 24
> KHz by adding an additional cap across it for resonance down there. It's
> better heads and shoulders than any ferrite antenna I ever made. 24 inch
> bicycle wheel, spokes removed and a space made in the wheel continuity by
> sawing it apart and adding a small block of wood. This also serves to hold
> an old ARCO tuning cap of high value, and an instrumentation amplifier
> made from three LM833 op amps.
>

> A layer of shipping plastic foam between the rim and 120 turns of HPT wire
> (#26 is a good number), then wrap it all up with a bit of squeezed on
> aluminum wrap. (Also not continuous, and grounded at the spacer.)
>
> With the inst, amp set for 60 dB of gain, I receive WWVB at about -40 dBm
> into the 50 Ohm input to a HP selective Voltmeter. Best ever ferrite was
> around 30 dB worse than this. I use it almost continuously for NAA
> monitoring of SIDs, and they never go out of detection even in the
> basement workshop.
>
> Regards and happy New Year.
> W4ZCB
>

From 2745681221463848359
X-Google-Thread: fc2a5,b97534b2a1062f0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 18 Jan 2008 23:20:06 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <dcadnZsBbpgKgxLanZ2dnUVZ_v2pnZ2d@comcast.com>
<mn.8b8f7d81738e52bc.59994@way.invalid>
Subject: Re: Ferrite loop antenna for LW/MW band
Date: Fri, 18 Jan 2008 23:20:15 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <9dSdnTBou5UbFQzanZ2dnUVZ_oqhnZ2d@comcast.com>
Lines: 35
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.239.37.56
X-Trace: sv3-
lmB1pDWFuY1znX8DcvyVAEW0Anb2i33ipmXIptmxJ6FGA2LvpjzmRiMjgtxFvlAWQQx5Ky/jnk95LYn!
hDqIc4ujrwleWy39mIUqSDd8uVQ4x5CbcJKdDKJHoj8aRYW7DtV52uXGSkAUk6xk+M/PnXlKmnMZ!
HxFsE3WChdKGAUfYOvdCUi0CtSXB
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15115

Thanks Dick........it looks like a good site. It also shows that I have quite a bit to learn about these things.

Pete

"Dirk Claessens" <No@way.invalid> wrote in message
news:mn.8b8f7d81738e52bc.59994@way.invalid...
> On 2008-01-17,   Pete KE9OA (71.239.37.56) wrote in
> message <dcadnZsBbpgKgxLanZ2dnUVZ_v2pnZ2d@comcast.com>
>
>
>> Hi,
>>
>> Is there any kind of program that makes the calculations a bit easier? If
>> I knew how to do the calculations, I could throw the formula into a
>> spreadsheet. What I need to do is calculate the inductance with the
>> parameters of cross sectional area, length, position on the ferrite rod,
>> number of turns, and permeability of the ferrite material itself.
>> I would like to throw these parameters into the spreadsheet/program, and
>> let the software calculate the inductance for me.
>>
>> Pete
>
> Have a look here, see section 2 "Practical antenna design"
>
> <http://www.c-maxgroup.com/tech/antenna.php>
>
> --
> Dirk.
> No trees were killed in the creation of this message;
> however, many electrons were terribly inconvenienced.
>
>

From 6250917484483279 28
X-Google-Thread: fc2a5,27dd915fab694f57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 18 Jan 2008 23:24:40 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <--KdnVxU1fW4VhbanZ2dnUVZ_hmtnZ2d@comcast.com>
<478bda15$0$16036$5fc30a8@news.tiscali.it>
<COudnSYWppIMYhbanZ2dnUVZ_vCknZ2d@comcast.com>
<478d0fdb$0$21198$5fc30a8@news.tiscali.it> <13oq4md3naalia0@corp.supernews.com>
<478d2bfc$0$21206$5fc30a8@news.tiscali.it> <bae1f5e5-f66e-4237-
a891-7fa22a8326dc@t1g2000pra.googlegroups.com>
Subject: Re: April 1977 QST article

Date: Fri, 18 Jan 2008 23:24:49 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <uuadndA_ONIFFAzanZ2dnUVZ_uevnZ2d@comcast.com>
Lines: 31
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.239.37.56
X-Trace: sv3-
LyiQ+2r6adHSosmzY25y2crqtTEhYnqRXtXw+AkbsnZHHbLROBEAvFowhQ4s65tiFQsjrUEBzPcGM7/!
EQztHZvMfOuuczPYF5HxHY1KqtTENHfk0eEsD1p6EMxhshTsVMGqpsBl7ECle1VmOn1AGkx6LSEK!
saMXQvgISJ6cWoEaUd55JPUPjP7R
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15116

Oh, I figured as much, but I thought it would be a nice experiment to try
(can you tell that I am doing this out of boredom?).
Right now, I am working on that LW/MW active loopstick antenna.

Pete

"Tim Shoppa" <shoppa@trailing-edge.com> wrote in message
news:bae1f5e5-f66e-4237-a891-7fa22a8326dc@t1g2000pra.googlegroups.com...
On Jan 15, 4:57 pm, "i3hev, mario held" <marioh...@tiscali.it> wrote:
> Hi Michael,
>
> msg wrote:
> > I wouldn't mind seeing that article too...
>
> if your address (minus underscores) is a valid one, you have mail :)
>
> > in the '80s I built some common type replacements using jfets and
> > bipolars and installed them in an HP scope.....
>
> I think that we all may want to learn the knack: in a near future this
> will probably be the only way to refurbish tube equipment... :)

I see huge lots of mil-surplus 6AU6's, 6CL6's, 6BA6's, 6AK5's etc.
moving through the surplus channels all the time, still.

Someday we'll run out but I suspect that transistors will be obsolete
before we use all those tubes up!

Tim.

```
From -114363325830929396
X-Google-Thread: fc2a5,6fcad510bf549a30,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: FRENCH,ASCII
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
hwmnpeer01.lga!news.highwinds-media.com!hw-filter.phx!newsfe11.phx.POSTED!
53ab2750!not-for-mail
From: "The Shadow" <Cranston@CobaltClub.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Homebrew Triode !!
Lines: 11
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 8bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6000.16480
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6000.16545
Message-ID: <TXSgj.84924$KU2.56552@newsfe11.phx>
NNTP-Posting-Host: 72.197.13.209
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe11.phx 1199831923 72.197.13.209 (Tue, 08 Jan 2008 15:38:43 MST)
NNTP-Posting-Date: Tue, 08 Jan 2008 15:38:43 MST
Organization: Cox
Date: Tue, 8 Jan 2008 14:38:40 -0800
Xref: g2news1.google.com rec.radio.amateur.homebrew:15017

Yep for real See video at URL:
http://dailymotion.alice.it/video/x3wrzo_fabrication-dune-lampe-triode

Nice Music Too
Brush Up on your French

From F2FO, radioamateur depuis 1959, montre ici les diff�rentes �tapes de la
construction d'une lampe triode r�alis�e par ses soins.

Lamont



From -4084321997095270628
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!sn-xt-sjc-02!sn-
xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
```

Subject: Re: Homebrew Triode !!
Date: Tue, 08 Jan 2008 17:00:05 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13o7vpdi9tdl0a2@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
In-Reply-To: <TXSgj.84924$KU2.56552@newsfe11.phx>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15018

The Shadow wrote:

> Yep for real See video at URL:

<absurd italian url snipped>

There has been a thread on this topic in sci.electronics.repair; I
quote my last post here and refer others to the previous thread:

> N Cook wrote:
> <snip> --- why does everyone persist on quoting that absurd Italian
>   URL when I posted the proper ones days ago?
>
>>
>> What was the small hinged halved chamber , he used a few times? - for
>> annealing the glass ?
>>
>> I did not follow the getter process.
>> Would someone have to be licensed to get hold of barium, caesium ?
>
>
> Here is a repost of the reference:
>
>> Thanks for the post; very inspiring. For anyone wishing to learn more,
>> the author's website is:
>>   http://paillard.claude.free.fr/
>>
>> Also, you can access the video more simply here:
>>   http://www.dailymotion.com/swf/x3wrzo
>>
>>   (just the flash player, no baggage).
>>
>> If you wish to save the video, make sure your browser's cache has at least
>> 60MB free space; when the video has concluded playing, look for a file
>> of size 57,195,733 bytes. Copy this to 'filename.flv' and play it in
>> VLC, or any flv player.
>

From 5732589135322503664
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 08 Jan 2008 19:45:38 -0600
From: "Bryan" <bryan.swadenerNOSPAM@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
Subject: Re: Homebrew Triode !!
Date: Tue, 8 Jan 2008 05:44:55 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <hKSdnR9rPOreuhnanZ2dnUVZ_qKgnZ2d@giganews.com>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-UGnJu6mdJRq5/EwrsWT2ztoHJJ/iI4pE7cBnZFhDyw2NdZ5vbWeX7CmxR1iTyvvEKqyu9RJTXfnMASr!U1u9Ajcvxdi44pH5PY3I1Y1lNAb/0KmCpx9rfrSRXT8g5nX0CM/WP/bNwYQMPHVG0tiSJohDQ3c=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15019

Lamont wrote:
> Yep for real See video at URL:
> http://dailymotion.alice.it/video/x3wrzo_fabrication-dune-lampe-triode
>
> Nice Music Too
> Brush Up on your French
>
> From F2FO, radioamateur depuis 1959, montre ici les diff�rentes �tapes de la
> construction d'une lampe triode r�alis�e par ses soins.
>
> Lamont

That's pretty groovy. If you Google the guy's callsign, the first hit will
be his website: http://paillard.claude.free.fr/
I clicked the "Translate this page" link, and was able to read some of the
plethora of text. It didn't help me with the French subtitles in the video,
though!

Bryan WA7PRC

```
From 5937147378822349795
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m34g2000hsf.googlegroups.com!not-for-
mail
From: lw1ecp <danyperez1@yahoo.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Triode !!
Date: Wed, 9 Jan 2008 16:16:30 -0800 (PST)
Organization: http://groups.google.com
Lines: 4
Message-ID: <8713a620-47b9-4d03-8852-0ec15d3719fc@m34g2000hsf.googlegroups.com>
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
<hKSdnR9rPOreuhnanZ2dnUVZ_qKgnZ2d@giganews.com>
NNTP-Posting-Host: 190.139.172.245
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1199924191 19336 127.0.0.1 (10 Jan 2008 00:16:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 10 Jan 2008 00:16:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m34g2000hsf.googlegroups.com; posting-host=190.139.172.245;
     posting-account=J2bTrwoAAAA_H4qq0GLh7EO3_dPJZX9j
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; MEGAUPLOAD 1.0),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15020
```

At last!. I had been looking for vacuum tubes homebrewing for ages.
Very good job. Of course, having all the needed tools does help!. Does
anybody know about vacuum pumps homebrewing??? :-)
Daniel Perez

```
From -6363364568079708864
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder3.cambrium.nl!feeder2.cambrium.nl!
feed.tweaknews.nl!193.201.147.68.MISMATCH!feeder.news-service.com!
news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Triode !!
Date: Wed, 09 Jan 2008 19:34:46 -0800
Organization: albasani.net
Lines: 13
```

Message-ID: <fm43ol$kpf$5@news.albasani.net>
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
<hKSdnR9rPOreuhnanZ2dnUVZ_qKgnZ2d@giganews.com>
<8713a620-47b9-4d03-8852-0ec15d3719fc@m34g2000hsf.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net yyStXP1CSHnBsdppB2Ctamz/Js36e2ELiMjyBQGFNT19I/
ZxwPi28A6CTzCjWpfi+9gd9QMEhEtB6ok3y/yodS2+r13jvgMxTsgeKVbpQb7zPl52ykHrXM8ByznhBlMQ
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Thu, 10 Jan 2008 03:34:46 +0000 (UTC)
X-User-ID: CzJ3UVhSjcwERpi905WEVjIkwaNOQKf8O+gkfrU0gJQ=
In-Reply-To: <8713a620-47b9-4d03-8852-0ec15d3719fc@m34g2000hsf.googlegroups.com>
Cancel-Lock: sha1:X4qXSDA5Lc5kEcHbUSLd5JQWYNw=
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
X-NNTP-Posting-Host: HDZrcIP5eNQXiAYzyiUTU0K/AMK2mo49edMre+DaUtQ=
Xref: g2news1.google.com rec.radio.amateur.homebrew:15021

lw1ecp wrote:
> At last!. I had been looking for vacuum tubes homebrewing for ages.
> Very good job. Of course, having all the needed tools does help!. Does
> anybody know about vacuum pumps homebrewing??? :-)
> Daniel Perez

A simple "column of mercury" (the metal) can pull the necessary vacuum,
you can also run pumps in series--for this application--most likely
would be cheaper to buy the supply of mercury and set up a column to
pull the vacuum for you.

Regards,
JS

From 2513616421225345556
X-Google-Thread: fc2a5,dd966ac27ac32b72
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!n20g2000hsh.googlegroups.com!not-for-mail
From: Tom <holden_family@sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Beat modulation of IF by Product Detector?
Date: Wed, 9 Jan 2008 20:38:13 -0800 (PST)
Organization: http://groups.google.com
Lines: 42
Message-ID: <f766acd5-d6eb-4355-aad9-23af9f6da872@n20g2000hsh.googlegroups.com>
References: <19837dfc-fbbb-4bad-a9e9-d3d964447bc6@c30g2000hsa.googlegroups.com>
NNTP-Posting-Host: 64.229.221.6
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1199939893 13598 127.0.0.1 (10 Jan 2008 04:38:13 GMT)
X-Complaints-To: groups-abuse@google.com

```
NNTP-Posting-Date: Thu, 10 Jan 2008 04:38:13 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: n20g2000hsh.googlegroups.com; posting-host=64.229.221.6;
     posting-account=dSeW1wgAAACmKsq9OPblBZ8hpo9AeSuQ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15022
```

On Nov 15 2007, 11:13=A0pm, Tom <holden_fam...@sympatico.ca> wrote:

> 1. I've been digging around in the receiver of my Yaesu FT-817ND
> transceiver and simulating with LTspice the AGC and AM detectors to
> investigate possible distortions due to non-linear loading of the IF
> feed they share with the SSB/CW product detector when I chanced upon
> an unexpected behaviour: the envelope of a CW IF signal at the input
> of the product detector is amplitude-modulated by the beat frequency
> output. The modulation is asymmetrical and distorted and is perhaps
> only 5-10% deep but its fundamental component is clearly the beat
> frequency. I presume that the output is therefore distorted to the
> extent that the output amplitude at any time is somewhat proportional
> to the amplitude of the input envelope. Is that a reasonable
> supposition?
>
> 2. I suspect the cause is a dynamic load impedance of the product
> detector being fed by a high impedance IF source - a 100pF coupling
> capacitor (approx 3600Xc at 455kHz) preceded by an IF buffer amp with
> at least 1000R source impedance. The product detector is NJM2594,
> stated in the datasheet to have a 600R input resistance and schematics
> for test setups showing 50R sources. Is that a reasonable explanation?
> Are there any other probable causes?
>
> 3. If the hypothesis in 2 is correct, a probable solution would be to
> lower the source impedance and that of the coupling capacitor to
> something on the order of 50 Ohms. Is that a reasonable conclusion?
> Are there any other possible solutions?
>
> I've posted an article to the Files section of the FT817 Yahoo!Group:http:=
//groups.yahoo.com/group/FT817/files/Audio%20Distortion%20-%20Re...
>
> 73, TomVE3MEO

I revised my FT-817ND so that the product detector is now fed off the
IF buffer's 220R emitter resistor (not the 1k collector) via a 0.1u
coupling capacitor. This lowers the source impedance seen by the
product detector and now I see no modulation of a CW IF input signal
by the pd's beat frequency output. I do see a trace of it on the input
from the BFO. Unfortunately, no distortion measurements on the audio
output but I believe, based on what I could simulate with LTspice,
that there is some improvement.

73, Tom VE3MEO

```
From -659180230873912893
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Triode !!
Date: 9 Jan 2008 23:07:32 -0600
Organization: Kansas State University
Lines: 12
Message-ID: <fm496k$dc0@unix1.cc.ksu.edu>
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
<hKSdnR9rPOreuhnanZ2dnUVZ_qKgnZ2d@giganews.com>
<8713a620-47b9-4d03-8852-0ec15d3719fc@m34g2000hsf.googlegroups.com>
NNTP-Posting-Host: unix1.cc.ksu.edu
X-Trace: cnn.cns.ksu.edu 1199941654 5688 129.130.12.3 (10 Jan 2008 05:07:34 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Thu, 10 Jan 2008 05:07:34 +0000 (UTC)
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15023

>Does anybody know about vacuum pumps homebrewing??? :-)

A LONG time ago (maybe 40 years?), Scientific American carried an article
(in "The Amateur Scientist" pages) about making a vaccuum pump.  (It may
have been part of or near an article about making your own laser which
was strong enough to bounce signals off the moon!)

--
--Myron A. Calhoun.
Five boxes preserve our freedoms:  soap, ballot, witness, jury, and cartridge
NRA Life Member & Certified Instructor for Rifle, Pistol, & Home Firearm Safety
Also Certified Instructor for the Kansas Concealed-Carry Handgun (CCH) license


From -4805995636075163643
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.albasani.net!not-
for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Triode !!
Date: Wed, 09 Jan 2008 22:25:03 -0800
Organization: albasani.net
Lines: 11
Message-ID: <fm4dnu$prp$1@news.albasani.net>
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
<hKSdnR9rPOreuhnanZ2dnUVZ_qKgnZ2d@giganews.com>
```

```
<8713a620-47b9-4d03-8852-0ec15d3719fc@m34g2000hsf.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
T1dVf2tL9inHBZSnpMIxuk0SqRjJy+8JDrIzo9Q8iFfE+VjDWfanuE8jDjyKsfbxWdzGdI1C0uhrwo+0cB
NfMe+cLXvmfEn15a0JiuLQns+V9eokDBvh9SQM/2QMHJ9o
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Thu, 10 Jan 2008 06:25:03 +0000 (UTC)
X-User-ID: AH0pGFUR4R3g6eeTZ63mv5XFYQzLBC4hy9mZgj53XYg=
In-Reply-To: <8713a620-47b9-4d03-8852-0ec15d3719fc@m34g2000hsf.googlegroups.com>
Cancel-Lock: sha1:LHd36qn9m4u1Qduc6pLTKM8hQLM=
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
X-NNTP-Posting-Host: UxvFO+kfJ81kuafqw6cx+otmJsENjT8D6/0hGkSvVeM=
Xref: g2news1.google.com rec.radio.amateur.homebrew:15024

lw1ecp wrote:
> At last!. I had been looking for vacuum tubes homebrewing for ages.
> Very good job. Of course, having all the needed tools does help!. Does
> anybody know about vacuum pumps homebrewing??? :-)
> Daniel Perez

If you wish to go the vacuum pump route, an old refrigerator unit can
pull a vacuum.  I would think you would need at least two in series with
a small tank (reservoir) in between the pumps ...

JS


From -2150782013734884645
X-Google-Thread: 10c2ee,9968ee6b3ffa2ea9,start
X-Google-Thread: fc8b1,9968ee6b3ffa2ea9,start
X-Google-Thread: f4535,9968ee6b3ffa2ea9,start
X-Google-Thread: fc2a5,9968ee6b3ffa2ea9,start
X-Google-Attributes: gid10c2ee,gidfc8b1,gidf4535,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!nlpi069.nbdc.sbc.com.POSTED!ef855899!not-for-mail
From: patrick jankowiak <eccm@swbell.net>
Reply-To:  recyclerREMOVE_THIS@swbell.net
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.audio.tubes,rec.radio.a
mateur.homebrew
Subject: New Triad Transformer online archive - official!
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 080109-0, 01/09/2008), Outbound message
X-Antivirus-Status: Clean
Lines: 28
Message-ID: <EGkhj.6626$se5.2231@nlpi069.nbdc.sbc.com>
```

NNTP-Posting-Host: 208.190.133.204
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi069.nbdc.sbc.com 1199953700 ST000 208.190.133.204 (Thu, 10 Jan 2008 03:28:20 EST)
NNTP-Posting-Date: Thu, 10 Jan 2008 03:28:20 EST
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
[[PA@SREVZVIBFD[YRKNOPDA[X_LPO@FLA]T]_MIJQR@EPIB_VUKAH_[MTX\IS[K[NGYJJFNOFZR_G[BUN
TAOQLFE^TEHRPI]PZZRP_BMDSFQFL_]CBHXRWCMDCUZAZN@D_AKMNLEI]MWHCSXL^]NNC__CZFGSGHYYXW
PFG@SCAVA]\FT\@B\RDGENSUQS^M
Date: Thu, 10 Jan 2008 02:28:25 -0600
Xref: g2news1.google.com rec.antiques.radio+phono:90365
rec.radio.amateur.boatanchors:13694 rec.audio.tubes:48392
rec.radio.amateur.homebrew:15025

Hello,

Triad Transformer has generously posted their archive of transformer catalogs online spanning 60 years.

I was playing with the print feature, they will print to PDF or a 8.5x11 page OK for me.

http://www.triadtransformers.com/

Note,

if anyone has a Triad catalog or historical Triad publication not seen on the site, it would be highly appreciated, to borrow the item, and scan non-destructively, and return, all at no cost to the contributor.

Please send me an e-mail in this case and I'll connect you with the appropriate Triad person. (avoiding giving his e-mail here!!)

Thanks,

Patrick Jankowiak
Master, the Bunker of DOOM
http://www.bunkerofdoom.com/

e-mail:
recyclerREMOVE_THIS@swbell.net

From 5662270855624052981
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!j78g2000hsd.googlegroups.com!not-for-mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Re: Homebrew Triode !!
Date: Thu, 10 Jan 2008 05:29:25 -0800 (PST)
Organization: http://groups.google.com
Lines: 11
Message-ID: <391a5d08-7896-4e35-9b4b-a869277b4e5c@j78g2000hsd.googlegroups.com>
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
<hKSdnR9rPOreuhnanZ2dnUVZ_qKgnZ2d@giganews.com>
     <8713a620-47b9-4d03-8852-0ec15d3719fc@m34g2000hsf.googlegroups.com>
     <fm4dnu$prp$1@news.albasani.net>
NNTP-Posting-Host: 97.84.159.244
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1199971767 30742 127.0.0.1 (10 Jan 2008 13:29:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 10 Jan 2008 13:29:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j78g2000hsd.googlegroups.com; posting-host=97.84.159.244;
     posting-account=K8YolwoAAADy0A2iW37gF9k2mykeXqaI
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
     SV1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15026

The guy is a mad scientist...  The video is a real hoot to watch... It
is interesting all the jigs and tools he has/made... I wonder if he
bought some of it as surplus from a commercial tube factory, maybe
circa 1920's..
I would have liked to have seen a bit more on the details of the
gettering and filament activation...

So, there ya go guys: it is only a small step from that little triode
to making your own 3CX15000A7 in the basement...

denny / k8do


From 5830185508764939969
X-Google-Thread: fcc6e,c54212ea4ed64f42,start
X-Google-Thread: fc2a5,c54212ea4ed64f42,start
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!newspeer.tds.net!
216.170.153.140.MISMATCH!newsreading01.news.tds.net!53ab2750!not-for-mail
From: "John, N9JG" <john@Xremove.MeYgotwals.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: How to make a triode
Lines: 4
Organization: CLM ARRL
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
```

```
X-RFC2646: Format=Flowed; Original
Message-ID: <9xphj.41449$G23.11374@newsreading01.news.tds.net>
Date: Thu, 10 Jan 2008 13:59:33 GMT
NNTP-Posting-Host: 69.130.138.129
X-Complaints-To: news@tds.net
X-Trace: newsreading01.news.tds.net 1199973573 69.130.138.129 (Thu, 10 Jan 2008
07:59:33 CST)
NNTP-Posting-Date: Thu, 10 Jan 2008 07:59:33 CST
Xref: g2news1.google.com rec.radio.amateur.antenna:53138
rec.radio.amateur.homebrew:15027
```

May not be directly antenna related, but ...
http://www.dailymotion.com/video/x3wrzo_fabrication-dune-lampe-triode_tech

```
From 2705776822373224736
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
newsfeed00.sul.t-online.de!t-online.de!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Triode !!
Date: Thu, 10 Jan 2008 07:45:07 -0800
Organization: albasani.net
Lines: 18
Message-ID: <fm5ei1$3kk$2@news.albasani.net>
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
<hKSdnR9rPOreuhnanZ2dnUVZ_qKgnZ2d@giganews.com>
<8713a620-47b9-4d03-8852-0ec15d3719fc@m34g2000hsf.googlegroups.com>
     <fm4dnu$prp$1@news.albasani.net> <391a5d08-7896-4e35-9b4b-
a869277b4e5c@j78g2000hsd.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
vfeEHhaKUZhkhGv6w6Ieo8hrA5spTJK3TyPZq5scHB2ka7aZR58sIC4ab+yBEomQe8PoU0g2znFwYv8XVp
JdybRY2eOfWN4ChqGzTFTMNp507T1CMTI9FiOm12ol5gR/
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Thu, 10 Jan 2008 15:45:05 +0000 (UTC)
X-User-ID: tqH51O6F7DTFXh4MBjf1ZHSgUi5S+qYpofu91L5t0vY=
In-Reply-To: <391a5d08-7896-4e35-9b4b-a869277b4e5c@j78g2000hsd.googlegroups.com>
Cancel-Lock: sha1:pAQYQRLhsHMUqavM/uKsw4yNb/A=
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
X-NNTP-Posting-Host: IHuNbsTrrTz/9aDmBY4Yfoyv+z1P7kIJsEr4rwgN3+8=
Xref: g2news1.google.com rec.radio.amateur.homebrew:15028
```

Denny wrote:
> The guy is a mad scientist... The video is a real hoot to watch... It
> is interesting all the jigs and tools he has/made... I wonder if he

> bought some of it as surplus from a commercial tube factory, maybe
> circa 1920's..
> I would have liked to have seen a bit more on the details of the
> gettering and filament activation...
>
> So, there ya go guys: it is only a small step from that little triode
> to making your own 3CX15000A7 in the basement...
>
> denny / k8do

Absolutely! That damn video clip is just sheer fun to watch! I'd love
to have a friend who made 'em in their basement!

Regards,
JS

```
From 2259647337817671839
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!eweka.nl!lightspeed.eweka.nl!
213.239.142.3.MISMATCH!feed.xsnews.nl!border-2.ams.xsnews.nl!news.mixmin.net!
newsfeeder.dynfx.net!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Triode !!
Date: Thu, 10 Jan 2008 07:55:47 -0800
Organization: albasani.net
Lines: 17
Message-ID: <fm5f62$3kk$3@news.albasani.net>
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
<hKSdnR9rPOreuhnanZ2dnUVZ_qKgnZ2d@giganews.com>
<8713a620-47b9-4d03-8852-0ec15d3719fc@m34g2000hsf.googlegroups.com>
<fm4dnu$prp$1@news.albasani.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
lcBZ0WcQr4+iZOmPCLneuxXB5U84MykRlWUgqOzvpgdOEVCFPvnsce2dD4PRWCtDwx21bCepUjeIvctjrq
C17uH0OkfE7/tZ4VpvfbT6oztFGrASLyfHtz67hruUB41i
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Thu, 10 Jan 2008 15:55:46 +0000 (UTC)
X-User-ID: wlcgczyTUCGzoBCGbtd0DH+l+nNOhbtFR1oOJYrSgpU=
In-Reply-To: <fm4dnu$prp$1@news.albasani.net>
Cancel-Lock: sha1:dI7GoXqVQbZAAnftX9RTmu/hPys=
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
X-NNTP-Posting-Host: 9N2nJaaS2q2lkfXqJCXOC75yrcFPO/LeEBqcdC25d7Y=
Xref: g2news1.google.com rec.radio.amateur.homebrew:15029
```

John Smith wrote:
> lw1ecp wrote:
>> At last!. I had been looking for vacuum tubes homebrewing for ages.

```
>> Very good job. Of course, having all the needed tools does help!. Does
>> anybody know about vacuum pumps homebrewing??? :-)
>> Daniel Perez
>
> If you wish to go the vacuum pump route, an old refrigerator unit can
> pull a vacuum.  I would think you would need at least two in series with
> a small tank (reservoir) in between the pumps ...
>
> JS

I was thinking, a couple of air conditioning compressors off autos would
make a heavy duty vacuum pump.

JS



From -6170679261666290905
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news2.google.com!news.glorb.com!
nx01.iad01.newshosting.com!newshosting.com!post01.iad01!post02.iad01!not-for-mail
From: cbx <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Triode !!
Date: Thu, 10 Jan 2008 10:04:03 -0600
Message-ID: <gdgco31o3irj5mu0nq6megthktl44304on@4ax.com>
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
<13o7vpdi9tdl0a2@corp.supernews.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 19
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15030

Anybody know where FIrefox stores the file, I searched the whole
computer for the file name, nothing.  Looked in all the obvious
places,
no luck.

Jim








On Tue, 08 Jan 2008 17:00:05 -0600, msg <msg@_cybertheque.org_> wrote:
```

```
>Also, you can access the video more simply here:
>>>    http://www.dailymotion.com/swf/x3wrzo
>>>



From -3473231944766817070
X-Google-Thread: fcc6e,c54212ea4ed64f42
X-Google-Thread: fc2a5,c54212ea4ed64f42
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
e6g2000prf.googlegroups.com!not-for-mail
From: art <aunwin@insightbb.com>
Newsgroups: rec.radio.amateur.antenna, rec.radio.amateur.homebrew
Subject: Re: How to make a triode
Date: Thu, 10 Jan 2008 08:55:03 -0800 (PST)
Organization: http://groups.google.com
Lines: 5
Message-ID: <a77229ac-ee3e-49d7-b74b-49a6e985b0f0@e6g2000prf.googlegroups.com>
References: <9xphj.41449$G23.11374@newsreading01.news.tds.net>
NNTP-Posting-Host: 74.133.197.189
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1199984104 9584 127.0.0.1 (10 Jan 2008 16:55:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 10 Jan 2008 16:55:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e6g2000prf.googlegroups.com; posting-host=74.133.197.189;
     posting-account=P4JngAkAAACg14kcTq044-xBZxn-fHsc
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.antenna:53146
rec.radio.amateur.homebrew:15031

On 10 Jan, 05:59, "John, N9JG" <j...@Xremove.MeYgotwals.com> wrote:
> May not be directly antenna related, but ...http://www.dailymotion.com/video/
x3wrzo_fabrication-dune-lampe-triode...

What a craftsman!
Art



From -5482386162651263108
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-04!sn-xt-sjc-09!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Triode !!
Date: Thu, 10 Jan 2008 11:07:02 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13ocjrd2897fs8b@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
<13o7vpdi9tdl0a2@corp.supernews.com> <gdgco31o3irj5mu0nq6megthktl44304on@4ax.com>
In-Reply-To: <gdgco31o3irj5mu0nq6megthktl44304on@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 17
Xref: g2news1.google.com rec.radio.amateur.homebrew:15032

cbx wrote:

> Anybody know where FIrefox stores the file, I searched the whole
> computer for the file name, nothing.  Looked in all the obvious
> places,
> no luck.
>

Please reference my previous post on this topic; clear your cache
before viewing the video (and be sure to use the url that I posted,
not that crazy Italian url), and then look for a file of the
exact size I stated in the post. Be sure to specify at least
60MB for your cache, or the file won't be there.

Regards,

Michael


From -4497896849321204898
X-Google-Thread: 10c2ee,9968ee6b3ffa2ea9
X-Google-Thread: fc8b1,9968ee6b3ffa2ea9
X-Google-Thread: f4535,9968ee6b3ffa2ea9
X-Google-Thread: fc2a5,9968ee6b3ffa2ea9
X-Google-Attributes: gid10c2ee,gidfc8b1,gidf4535,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!x69g2000hsx.googlegroups.com!not-for-
mail
From: Engineer <junk2007@rogers.com>
Newsgroups: rec.antiques.radio+phono, rec.radio.amateur.boatanchors,
     rec.audio.tubes, rec.radio.amateur.homebrew
Subject: Re: New Triad Transformer online archive - official!
Date: Thu, 10 Jan 2008 12:50:25 -0800 (PST)
Organization: http://groups.google.com
Lines: 36
```

Message-ID: <a6510ac5-df90-43fa-801f-28ebcfedf85c@x69g2000hsx.googlegroups.com>
References: <EGkhj.6626$se5.2231@nlpi069.nbdc.sbc.com>
NNTP-Posting-Host: 99.238.22.65
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1199998227 13000 127.0.0.1 (10 Jan 2008 20:50:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 10 Jan 2008 20:50:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x69g2000hsx.googlegroups.com; posting-host=99.238.22.65;
 posting-account=7eatwQoAAAA7jEgZiH-tBO0RJMP2eeGB
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; YPC
 3.2.0; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.antiques.radio+phono:90387
rec.radio.amateur.boatanchors:13695 rec.audio.tubes:48412
rec.radio.amateur.homebrew:15033

On Jan 10, 3:28=A0am, patrick jankowiak <e...@swbell.net> wrote:
> Hello,
>
> Triad Transformer has generously posted their archive of transformer
> catalogs online spanning 60 years.
>
> I was playing with the print feature, they will print to PDF or a 8.5x11
> page OK for me.
>
> http://www.triadtransformers.com/
>
> Note,
>
> if anyone has a Triad catalog or historical Triad publication not seen
> on the site, it would be highly appreciated, to borrow the item, and
> scan non-destructively, and return, all at no cost to the contributor.
>
> Please send me an e-mail in this case and I'll connect you with the
> appropriate Triad person. (avoiding giving his e-mail here!!)
>
> Thanks,
>
> Patrick Jankowiak
> Master, the Bunker of DOOM
> http://www.bunkerofdoom.com/
>
> e-mail:
> recyclerREMOVE_T...@swbell.net

This is a different presentation from the Hammond .pdf transformer
catalogue on which you can browse page by page for specifications - or
is it just my finger trouble on the Triad website?! I could not find
the listed pages to get specs or even types. Is this fully
downloadable as a .pdf?

Cheers,
Roger

From 2076509374778672762
X-Google-Thread: 108228,a52780c98351f054,start
X-Google-Thread: fc8b1,a52780c98351f054,start
X-Google-Thread: 108122,a52780c98351f054,start
X-Google-Thread: fc2a5,a52780c98351f054,start
X-Google-Attributes: gid108228,gidfc8b1,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe23.lga.POSTED!53ab2750!not-for-mail
From: "KC0EH" <cvest@cox.net>
Newsgroups: alt.ham-radio.marketplace,rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: WTB: R-14 Headphones
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <6gwhj.17612$3b7.10635@newsfe23.lga>
NNTP-Posting-Host: 72.205.229.11
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe23.lga 1200001154 72.205.229.11 (Thu, 10 Jan 2008 14:39:14 MST)
NNTP-Posting-Date: Thu, 10 Jan 2008 14:39:14 MST
Organization: Cox
Date: Thu, 10 Jan 2008 15:40:19 -0600
Xref: g2news1.google.com alt.ham-radio.marketplace:3551
rec.radio.amateur.boatanchors:13696 rec.radio.amateur.equipment:13754
rec.radio.amateur.homebrew:15034

A friend of mine (W0ILJ) , lost everything he owned , except the clothes on his back and his car , in July 2007 , due to a flood and chemical spill DR # 1711 , in Coffeyville , KS. No insurance , since he was in a 500 year flood plain.

He is wanting to replace a few key items and the top of his list is a set of R-14 phones.

Please state condition , price and method of payment .

THANKS ,
73 ,
Charlie (W5COV)

From -7446837971940552334
X-Google-Thread: 108228,a52780c98351f054
X-Google-Thread: fc8b1,a52780c98351f054
X-Google-Thread: 108122,a52780c98351f054

```
X-Google-Thread: fc2a5,a52780c98351f054
X-Google-Attributes: gid108228,gidfc8b1,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 10 Jan 2008 17:06:24 -0600
Date: Thu, 10 Jan 2008 18:06:26 -0500
From: K3HVG <jeepp@comcast.net>
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
MIME-Version: 1.0
Newsgroups: alt.ham-
radio.marketplace,rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.ra
dio.amateur.homebrew
Subject: Re: WTB: R-14 Headphones
References: <6gwhj.17612$3b7.10635@newsfe23.lga>
In-Reply-To: <6gwhj.17612$3b7.10635@newsfe23.lga>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <_fmdnUVBfbNtORvanZ2dnUVZ_vbinZ2d@comcast.com>
Lines: 18
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 68.33.111.19
X-Trace: sv3-PPvU4P1pPx0KkWB7c8ZZUfpDpGxKTjjkXqdhxGmdUh52fUnldoC9DSKqTnYEuC5wJdok/
q9HGmcn1vQ!ePLko4j3TkqEH7T2dh86vVdXvS/
YekEWO+mzApWpxbSIj4LrmYZxWhtoIcfEJ7Nh8AJmLCsMzYPY!yV05P9PnDJFS2TIPrTdxykDFnpMe
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com alt.ham-radio.marketplace:3552
rec.radio.amateur.boatanchors:13697 rec.radio.amateur.equipment:13755
rec.radio.amateur.homebrew:15035
```

KC0EH wrote:

> A friend of mine (W0ILJ) , lost everything he owned , except the
> clothes on his back and his car , in July 2007 , due to a flood and chemical
> spill DR # 1711 , in Coffeyville , KS. No insurance , since he was in a 500
> year flood plain.
> He is wanting to replace a few key items and the top of his list is a set
> of R-14 phones.
> Please state condition , price and method of payment .
> THANKS ,
> 73 ,
> Charlie (W5COV)

When you say R-14 phones, do you mean an HS-23 or HS-33 headset? The R-14's (and ANB's)are just the elements for these typical headsets. The R-14 was also used in cloth flight caps, etc. I may be able to assist.

```
From 2279855575031862687
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews3.bellsouth.net.POSTED!ef55a73e!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14pre (X11/20071018)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Triode !!
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
<hKSdnR9rPOreuhnanZ2dnUVZ_qKgnZ2d@giganews.com>
<8713a620-47b9-4d03-8852-0ec15d3719fc@m34g2000hsf.googlegroups.com>
<fm496k$dc0@unix1.cc.ksu.edu>
In-Reply-To: <fm496k$dc0@unix1.cc.ksu.edu>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 10
Message-ID: <zNxhj.70045$L%6.68460@bignews3.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcbokofaciplejmjpdenlllbpipikkjbbjchjc
mlddhhopfedhdpodoelgmcbhkmchhakngmmneimggmmdkdcncapnhcecmfncajfppkahfiolloonl
NNTP-Posting-Date: Thu, 10 Jan 2008 18:23:11 EST
Organization: BellSouth Internet Group
Date: Thu, 10 Jan 2008 23:23:16 +0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:15036

mcalhoun@ksu.edu wrote:
>> Does anybody know about vacuum pumps homebrewing??? :-)
>
> A LONG time ago (maybe 40 years?), Scientific American carried an article
> (in "The Amateur Scientist" pages) about making a vaccuum pump.  (It may
> have been part of or near an article about making your own laser which
> was strong enough to bounce signals off the moon!)
>
You can get a reprint of this book from Lindsay books
www.lindsaybks.com


From -6985009287589289037
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews3.bellsouth.net.POSTED!ef55a73e!
not-for-mail
```

From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14pre (X11/20071018)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Triode !!
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
<hKSdnR9rPOreuhnanZ2dnUVZ_qKgnZ2d@giganews.com>
<8713a620-47b9-4d03-8852-0ec15d3719fc@m34g2000hsf.googlegroups.com>
<fm496k$dc0@unix1.cc.ksu.edu> <zNxhj.70045$L%6.68460@bignews3.bellsouth.net>
In-Reply-To: <zNxhj.70045$L%6.68460@bignews3.bellsouth.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 12
Message-ID: <pPxhj.70047$L%6.66268@bignews3.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcbojhklfeiacnnipaplbknbjjcmonkcfibajc
mldddhhopfedhdpodoelgmcbhkmchhakngmmneimggmmdkodkbiddhcpalabeimldjhobphegcgdfo
NNTP-Posting-Date: Thu, 10 Jan 2008 18:25:09 EST
Organization: BellSouth Internet Group
Date: Thu, 10 Jan 2008 23:25:13 +0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:15037

ken scharf wrote:
> mcalhoun@ksu.edu wrote:
>>> Does anybody know about vacuum pumps homebrewing??? :-)
>>
>> A LONG time ago (maybe 40 years?), Scientific American carried an article
>> (in "The Amateur Scientist" pages) about making a vaccuum pump. (It may
>> have been part of or near an article about making your own laser which
>> was strong enough to bounce signals off the moon!)
>>
> You can get a reprint of this book from Lindsay books
> www.lindsaybks.com
http://www.lindsaybks.com/bks/expphy/index.html

From 8333976424845606316
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!sn-xt-sjc-04!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Triode !!
Date: Thu, 10 Jan 2008 16:37:52 -0800
Organization: Home for Obscure Mythical Beings
Message-ID: <0cqi55-m2r.ln1@radagast.org>
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
<8713a620-47b9-4d03-8852-0ec15d3719fc@m34g2000hsf.googlegroups.com>
<fm496k$dc0@unix1.cc.ksu.edu> <zNxhj.70045$L%6.68460@bignews3.bellsouth.net>

X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
X-Complaints-To: abuse@supernews.com
Lines: 43
Xref: g2news1.google.com rec.radio.amateur.homebrew:15038

In article <zNxhj.70045$L%6.68460@bignews3.bellsouth.net>,
ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net> wrote:

>>> Does anybody know about vacuum pumps homebrewing??? :-)
>>
>> A LONG time ago (maybe 40 years?), Scientific American carried an article
>> (in "The Amateur Scientist" pages) about making a vaccuum pump. (It may
>> have been part of or near an article about making your own laser which
>> was strong enough to bounce signals off the moon!)

>You can get a reprint of this book from Lindsay books
>www.lindsaybks.com

Or, go to www.surplusshed.com and do a search on "CD". They have
copies of Scientific American's "The Amateur Scientist on CD-ROM"
collection in the Miscellaneous category (item M2071).

"From the archives of Scientific American Magazine, more than 72 years
of experiments and projects from all The Amateur Astronomer, The
Amateur Telescope Maker, and The Amateur Scientist columns from the
beginning in 1928 thru 2001. Every article is complete with all
photos, sketches, etc. More than 1,000 projects in every major field
of science.

"This comprehensive package also includes over 2,000 pages of helpful
Technical Notes that never appeared in the magazine covering topics
from choosing binoculars for astronomy to monitoring earthquakes, as
well as the full text of Procedures in Experimental Physics by John
Strong, a classic and much sought after reference on instrument making."

List price $40, being closed out for $24. I bought one a few years
ago shortly after it came it... it's an impressive collection of
experiments and ideas. Some of them are >>censored<< dangerous,
others as safe as milk.

SA's decision to shut down the Amateur Scientist column was a
disappointing one, I think.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From 6711589536300254987
X-Google-Thread: fc2a5,6fcad510bf549a30

```
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!newsfeed.datemas.de!
news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Triode !!
Date: Thu, 10 Jan 2008 16:42:55 -0800
Organization: albasani.net
Lines: 22
Message-ID: <fm6e2c$v6a$2@news.albasani.net>
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
<8713a620-47b9-4d03-8852-0ec15d3719fc@m34g2000hsf.googlegroups.com>
<fm496k$dc0@unix1.cc.ksu.edu> <zNxhj.70045$L%6.68460@bignews3.bellsouth.net>
<0cqi55-m2r.ln1@radagast.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net TnYi7In5BXV9DC3cuGc8a7kO90STYxCC+kr6h1ttktm/
iKSHXako5vuWszCXkNyno+llpGOfReMeIN15wZbZUwd81OLySR82IpzmTETna5EFTGxtPJTq4aIcqk6mqm
N0
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Fri, 11 Jan 2008 00:42:52 +0000 (UTC)
X-User-ID: m/fyhDWJC5irlLOEUtSo+N0wp4gm1eIwoLKKyUe7xwk=
In-Reply-To: <0cqi55-m2r.ln1@radagast.org>
Cancel-Lock: sha1:aE+8GYPA2xsn5p6eTlf9t/JKnSE=
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
X-NNTP-Posting-Host: CDrQzYdmrJO0eDyPQZjfguJpP0wuiMXoqfjRysUMZOQ=
Xref: g2news1.google.com rec.radio.amateur.homebrew:15039
```

Dave Platt wrote:

> ...
> List price $40, being closed out for $24. I bought one a few years
> ago shortly after it came it... it's an impressive collection of
> experiments and ideas. Some of them are >>censored<< dangerous,
> others as safe as milk.
>
> SA's decision to shut down the Amateur Scientist column was a
> disappointing one, I think.
>

If you drive along any levee road in my area, you can remove any number of units from dumped refrigs' you like, just carry a crescent wrench or two in your back pocket.

Best thing? Cost $0.00.

Immediate satisfaction too ...

Regards,
JS

```
From -3733074280501917205
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
feeder.erje.net!diablo1.news.osn.de!212.114.65.131.MISMATCH!news.osn.de!
diablo2.news.osn.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Triode !!
Date: 11 Jan 2008 02:21:10 GMT
Lines: 24
Message-ID: <slrnfodkkl.1o2s.bit-bucket@shell.config.com>
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
<13o7vpdi9tdl0a2@corp.supernews.com> <gdgco31o3irj5mu0nq6megthktl44304on@4ax.com>
Reply-To: If you must, <Reply_to@my.sig.adr>
X-Trace: individual.net PYBw7xMS+dgZhvUzXo4cjwiKUuiWK6EeY8sbvicvLnIBNRqOKh
Cancel-Lock: sha1:XhSzToIWXLF2AduNu9ZDVR9dQ9I=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15040

On Thu, 10 Jan 2008 10:04:03 -0600, cbx wrote:
> Anybody know where FIrefox stores the file, I searched the whole
> computer for the file name, nothing.  Looked in all the obvious
> places,
> no luck.

$ locate Cache | grep mozilla

Mind the CaPiTAlIZatIoN there.

Also, insure you have your browser set to actually _use_ cache and
that you have your cache size set Mucho Grande!  The video is 57+ MB.

$ ls -ol *.flv
-rw-rw-r--  1 jonesy 57195626 Jan  3 20:18 HomeMadeVacuumTubes.flv

(You'll want to rename it to something human-understandable getting it
out of cache.)

Jonesy
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    *** Killfiling google posts: <http://jonz.net/ng.htm>


From -1253692842153954186
X-Google-Thread: fcc6e,c54212ea4ed64f42
X-Google-Thread: fc2a5,c54212ea4ed64f42
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
wn14feed!worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!7bd46aa5!not-for-mail
From: "numeric" <numeric@att.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <9xphj.41449$G23.11374@newsreading01.news.tds.net>
Subject: Re: How to make a triode
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Message-ID: <QCAhj.409941$kj1.228642@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: c145ea927743f453ff0342bbcdb6bbff
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1200018992
c145ea927743f453ff0342bbcdb6bbff (Fri, 11 Jan 2008 02:36:32 GMT)
NNTP-Posting-Date: Fri, 11 Jan 2008 02:36:32 GMT
Organization: AT&T Worldnet
Date: Fri, 11 Jan 2008 02:36:32 GMT
Xref: g2news1.google.com rec.radio.amateur.antenna:53177
rec.radio.amateur.homebrew:15041

"John, N9JG" <john@Xremove.MeYgotwals.com> wrote in message
news:9xphj.41449$G23.11374@newsreading01.news.tds.net...
> May not be directly antenna related, but ...
> http://www.dailymotion.com/video/x3wrzo_fabrication-dune-lampe-triode_tech
>
>

See, anything is possible with a Swiss Army Knife ;-)

From 5920582826308946468
X-Google-Thread: fcc6e,c54212ea4ed64f42
X-Google-Thread: fc2a5,c54212ea4ed64f42
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 10 Jan 2008 21:57:23 -0600
From: "Bryan" <bryan.swadenerNOSPAM@comcast.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <9xphj.41449$G23.11374@newsreading01.news.tds.net>
Subject: Re: How to make a triode
Date: Thu, 10 Jan 2008 07:46:05 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <SsidnTlkVO--dBvanZ2dnUVZ_rWtnZ2d@giganews.com>
Lines: 11
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-ZHncfsOVxSA6JTsOBRFbrB/5Mb7GuHcUG5+hwj/
vbrCVZRPQ8m1lMU+bS6PtWTk+8kQE27uuKvetsi6!ttYeNoMCve/
wnemUgSPtoJzhaF2ZGAGxpkhl65YkmM5GaOZSJ79Jq9qkvLs4X8z9n+YgK9Jeokk=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.antenna:53183 rec.radio.amateur.homebrew:15042

John, N9JG wrote:
> May not be directly antenna related, but ...
> http://www.dailymotion.com/video/x3wrzo_fabrication-dune-lampe-triode_tech

That's pretty groovy! If you Google the callsign F2FO and then click the "Translate this page" link, you'll have a plethora of text available to read.
73,
Bryan WA7PRC

From 3625912927823745035
X-Google-Thread: fc8b1,9968ee6b3ffa2ea9
X-Google-Thread: fc2a5,9968ee6b3ffa2ea9
X-Google-Attributes: gidfc8b1,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 10 Jan 2008 22:05:48 -0600
From: "Bryan" <bryan.swadenerNOSPAM@comcast.net>
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
References: <EGkhj.6626$se5.2231@nlpi069.nbdc.sbc.com>
Subject: Re: New Triad Transformer online archive - official!
Date: Thu, 10 Jan 2008 07:54:25 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <Q6SdnWhvSp2BdhvanZ2dnUVZ_u2mnZ2d@giganews.com>
Lines: 37
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-
yhiaWn9KEDVSa3RKtVFK9tD8eA7fSHan5PBIeBid7WGbcDifD8NHjr2/9tmdRjWE79U8e8t2YrHEves!
eVv68a1eTFEltMKj2tYSq5IrJ6zeR+A32NOHuvb9SKtRER05BrCKXd80tCOGb8JQfbJ8F/J+gYQ=

X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.boatanchors:13698 rec.radio.amateur.homebrew:15043

Patrick Jankowiak wrote:
> Hello,
>
> Triad Transformer has generously posted their archive of transformer
> catalogs online spanning 60 years.
>
> I was playing with the print feature, they will print to PDF or a 8.5x11
> page OK for me.
>
> http://www.triadtransformers.com/
>
>
> Note,
>
> if anyone has a Triad catalog or historical Triad publication not seen
> on the site, it would be highly appreciated, to borrow the item, and
> scan non-destructively, and return, all at no cost to the contributor.
>
> Please send me an e-mail in this case and I'll connect you with the
> appropriate Triad person. (avoiding giving his e-mail here!!)
>
> Thanks,
>
> Patrick Jankowiak
> Master, the Bunker of DOOM
> http://www.bunkerofdoom.com/
>
> e-mail:
> recyclerREMOVE_THIS@swbell.net

Kudos for finding that! I would like to point out that "printing" to PDF
works only if one has a driver for that. I use PDF995 (www.pdf995.com)
which is "sponsor-ware" unless you pay a modest fee. There are others as
well (CutePDF, etc).
Bryan WA7PRC

From 7471654306424522347
X-Google-Thread: fc2a5,a7a0589b73bf9378,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z17g2000hsg.googlegroups.com!not-for-

```
mail
From: Toadd6@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: RCA Receiving tube manual RC-30 download link
Date: Thu, 10 Jan 2008 20:07:44 -0800 (PST)
Organization: http://groups.google.com
Lines: 1
Message-ID: <c885ae81-2a9f-46ba-83bf-2df0d6147a3c@z17g2000hsg.googlegroups.com>
NNTP-Posting-Host: 68.63.248.87
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1200024464 26936 127.0.0.1 (11 Jan 2008 04:07:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 11 Jan 2008 04:07:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: z17g2000hsg.googlegroups.com; posting-host=68.63.248.87;
     posting-account=Xce_-AoAAADb1bkYHmJHEn1aL6mKy6sj
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15044

http://rapidshare.com/files/75244077/RC30.pdf.html


From -4861277405371613767
X-Google-Thread: fcc6e,c54212ea4ed64f42
X-Google-Thread: fc2a5,c54212ea4ed64f42
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!uns-out.usenetserver.com!
news.usenetserver.com!pc03.usenetserver.com!TEKSAVVY.COM-Free-a2kHrUvQQWlmc!not-
for-mail
From: "Bob" <bobsakol@hotmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <9xphj.41449$G23.11374@newsreading01.news.tds.net>
Subject: Re: How to make a triode
Date: Fri, 11 Jan 2008 00:46:29 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <cf9e4$478702ab$4c0a8c1d$20546@TEKSAVVY.COM-Free>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 9
X-Trace: cf9e4478702abe9af29b820546
Xref: g2news1.google.com rec.radio.amateur.antenna:53187
rec.radio.amateur.homebrew:15045

Magnifique!
```

"John, N9JG" <john@Xremove.MeYgotwals.com> wrote in message
news:9xphj.41449$G23.11374@newsreading01.news.tds.net...

> May not be directly antenna related, but ...
> http://www.dailymotion.com/video/x3wrzo_fabrication-dune-lampe-triode_tech
>

```
From 6157898765357318287
X-Google-Thread: fcc6e,c54212ea4ed64f42
X-Google-Thread: fc2a5,c54212ea4ed64f42
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 11 Jan 2008 01:38:20 -0600
Message-ID: <UkgdL4FxpxhHFAvP@ifwtech.co.uk>
Date: Fri, 11 Jan 2008 07:27:45 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: How to make a triode
References: <9xphj.41449$G23.11374@newsreading01.news.tds.net>
 <QCAhj.409941$kj1.228642@bgtnsc04-news.ops.worldnet.att.net>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<1kzkzbE5O58EZGKku9yHHs2Urj>)
Lines: 20
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 91.84.209.172
X-Trace: sv3-
i3OTF+gobl3zSTjxhzT7Bi7ijXhZxXrEMLR5twQmLbSQkLB7ldIrfOGVyYYhJ0Jhs4ok04mBVYp8N35!
IjGS8Sr8zeUKjbgeZ/ewF6wlckZho9fuXYrkDviLCIZ4VpgUQSNTdEvkxrxupTp8yFxYKBVxlA==
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.antenna:53190
rec.radio.amateur.homebrew:15046
```

numeric wrote:

>
>"John, N9JG" <john@Xremove.MeYgotwals.com> wrote in message
>news:9xphj.41449$G23.11374@newsreading01.news.tds.net...
>> May not be directly antenna related, but ...
>> http://www.dailymotion.com/video/x3wrzo_fabrication-dune-lampe-triode_tech
>>

>>
>
>See, anything is possible with a Swiss Army Knife ;-)
>

Does anyone else make thumb-operated scissors? The straight handle makes
them much easier to control than the normal type.

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From -3525999206797936866
X-Google-Thread: fc8b1,9968ee6b3ffa2ea9
X-Google-Thread: fc2a5,9968ee6b3ffa2ea9
X-Google-Attributes: gidfc8b1,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: New Triad Transformer online archive - official!
Date: Fri, 11 Jan 2008 22:44:27 -0800
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2008.01.12.06.44.27.244630@localhost.localdomain>
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
References: <EGkhj.6626$se5.2231@nlpi069.nbdc.sbc.com>
<Q6SdnWhvSp2BdhvanZ2dnUVZ_u2mnZ2d@giganews.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 18
Organization: Octanews
NNTP-Posting-Date: 12 Jan 2008 00:44:30 CST
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.boatanchors:13703
rec.radio.amateur.homebrew:15047

On Thu, 10 Jan 2008 07:54:25 -0800, Bryan wrote:

<snip>

> I would like to point out that "printing" to PDF
> works only if one has a driver for that. I use PDF995 (www.pdf995.com)
> which is "sponsor-ware" unless you pay a modest fee. There are others as
> well (CutePDF, etc).
> Bryan WA7PRC

OpenOffice.org

Open Office has supported exporting to .pdf for years and is free open-source software.

Cheers,

--
Gregg

From -8662398383401691264
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews6.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14pre (X11/20071018)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Triode !!
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
<hKSdnR9rPOreuhnanZ2dnUVZ_qKgnZ2d@giganews.com>
<8713a620-47b9-4d03-8852-0ec15d3719fc@m34g2000hsf.googlegroups.com>
<fm4dnu$prp$1@news.albasani.net> <fm5f62$3kk$3@news.albasani.net>
In-Reply-To: <fm5f62$3kk$3@news.albasani.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 24
Message-ID: <r34ij.69754$K27.36865@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcboijphglmmfnmmmpcdbknbjjcmonkcfibajcmldddhhopfedhdehijooclbhkckgekakngmmneimggmmdkfbgmkkngmghfikglflhcmcjcfilebkap
NNTP-Posting-Date: Sat, 12 Jan 2008 09:23:19 EST
Organization: BellSouth Internet Group
Date: Sat, 12 Jan 2008 14:23:27 +0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:15048

John Smith wrote:
> John Smith wrote:
>> lw1ecp wrote:
>>> At last!. I had been looking for vacuum tubes homebrewing for ages.
>>> Very good job. Of course, having all the needed tools does help!. Does
>>> anybody know about vacuum pumps homebrewing??? :-)
>>> Daniel Perez
>>
>> If you wish to go the vacuum pump route, an old refrigerator unit can
>> pull a vacuum. I would think you would need at least two in series
>> with a small tank (reservoir) in between the pumps ...
>>
>> JS
>
> I was thinking, a couple of air conditioning compressors off autos would

> make a heavy duty vacuum pump.
>
> JS
At one time I was thinking of finding a vacuum pump and bell jar to make
a chamber for the vacuum depositing of aluminum on glass for making
telescope mirrors. You need a two stage pump because a GOOD vacuum is
required to make a hard coating on the glass. Such chambers usually
first clean the glass with an ion bombardment using an electron gun
assembly or high voltage discharge.

From -8491113635434405232
X-Google-Thread: fcc6e,c54212ea4ed64f42
X-Google-Thread: fc2a5,c54212ea4ed64f42
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
Date: Sat, 12 Jan 2008 13:17:57 -0500
From: Jimmie <Geefender@carolina.rr.com>
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: How to make a triode
References: <9xphj.41449$G23.11374@newsreading01.news.tds.net>
<QCAhj.409941$kj1.228642@bgtnsc04-news.ops.worldnet.att.net>
In-Reply-To: <QCAhj.409941$kj1.228642@bgtnsc04-news.ops.worldnet.att.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 12
Message-ID: <47890454$0$5154$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 75.191.181.199
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.antenna:53255
rec.radio.amateur.homebrew:15049

numeric wrote:
> "John, N9JG" <john@Xremove.MeYgotwals.com> wrote in message
> news:9xphj.41449$G23.11374@newsreading01.news.tds.net...
>> May not be directly antenna related, but ...
>> http://www.dailymotion.com/video/x3wrzo_fabrication-dune-lampe-triode_tech
>>
>>
>
> See, anything is possible with a Swiss Army Knife ;-)
>
>
And a spot welder.

From -2636475608980503659

```
X-Google-Thread: fcc6e,c54212ea4ed64f42
X-Google-Thread: fc2a5,c54212ea4ed64f42
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out02a.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc04.POSTED!d2fe4b3a!
not-for-mail
From: "Wayne" <mygarbagecan@verizon.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <9xphj.41449$G23.11374@newsreading01.news.tds.net>
<QCAhj.409941$kj1.228642@bgtnsc04-news.ops.worldnet.att.net>
<47890454$0$5154$4c368faf@roadrunner.com>
Subject: Re: How to make a triode
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <JB7ij.7882$W73.2315@trnddc04>
Date: Sat, 12 Jan 2008 18:24:41 GMT
NNTP-Posting-Host: 71.103.204.8
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc04 1200162281 71.103.204.8 (Sat, 12 Jan 2008 13:24:41 EST)
NNTP-Posting-Date: Sat, 12 Jan 2008 13:24:41 EST
Xref: g2news1.google.com rec.radio.amateur.antenna:53257
rec.radio.amateur.homebrew:15050


"Jimmie" <Geefender@carolina.rr.com> wrote in message
news:47890454$0$5154$4c368faf@roadrunner.com...
> numeric wrote:
>> "John, N9JG" <john@Xremove.MeYgotwals.com> wrote in message
>> news:9xphj.41449$G23.11374@newsreading01.news.tds.net...
>>> May not be directly antenna related, but ...
>>> http://www.dailymotion.com/video/x3wrzo_fabrication-dune-lampe-triode_tech
>>>
>>>
>>
>> See, anything is possible with a Swiss Army Knife ;-)
>>
>>
> And a spot welder.

And plenty of time on your hands.




From -8765727028634927014
X-Google-Thread: fcc6e,c54212ea4ed64f42
X-Google-Thread: fc2a5,c54212ea4ed64f42
```

```
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 12 Jan 2008 16:39:22 -0600
Message-Id: <8srn55-g6i.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: Re: How to make a triode
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Date: Sat, 12 Jan 2008 16:34:16 -0600
References: <9xphj.41449$G23.11374@newsreading01.news.tds.net>
<QCAhj.409941$kj1.228642@bgtnsc04-news.ops.worldnet.att.net>
<47890454$0$5154$4c368faf@roadrunner.com>
Organization: the clifto consortium
User-Agent: KNode/0.10.5
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 16
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.15.125.52
X-Trace: sv3-
ckxIfGG6hl3xLz98rp43ohGBnRWO4h+pOO3V5HaAM2MMFvZrcnkXDZKTnWomB4KuRH0FJ+vKy+d1KCl!
D2DHt9GQ/ge7xlBnfF/LHDxflpbdPsFHmyYfCDpGnpnMgLIkY0nJ3t7J92ABj36BpEFXXm8CJelD!
FRjaF0trJeuI
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.antenna:53268
rec.radio.amateur.homebrew:15051
```

Jimmie wrote:
> numeric wrote:
>> "John, N9JG" <john@Xremove.MeYgotwals.com> wrote in message
>> news:9xphj.41449$G23.11374@newsreading01.news.tds.net...
>>> May not be directly antenna related, but ...
>>> http://www.dailymotion.com/video/x3wrzo_fabrication-dune-lampe-triode_tech
>>
>> See, anything is possible with a Swiss Army Knife ;-)
>>
> And a spot welder.

And duct tape. Or duck tape. Or Duck (TM) Tape.

--
If John McCain gets the 2008 Republican Presidential nomination,
my vote for President will be a write-in for Jiang Zemin.

```
From 1892073315213532060
X-Google-Thread: fc8b1,9968ee6b3ffa2ea9
X-Google-Thread: fc2a5,9968ee6b3ffa2ea9
X-Google-Attributes: gidfc8b1,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-03!sn-xt-sjc-07!sn-post-sjc-02!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Richard Knoppow" <dickburk@ix.netcom.com>
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: New Triad Transformer online archive - official!
Date: Sat, 12 Jan 2008 17:37:48 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13oiqrltgfiph67@corp.supernews.com>
References: <EGkhj.6626$se5.2231@nlpi069.nbdc.sbc.com>
<Q6SdnWhvSp2BdhvanZ2dnUVZ_u2mnZ2d@giganews.com>
<pan.2008.01.12.06.44.27.244630@localhost.localdomain>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 43
Xref: g2news1.google.com rec.radio.amateur.boatanchors:13705
rec.radio.amateur.homebrew:15052
```

"geek" <geek@localhost.localdomain> wrote in message
news:pan.2008.01.12.06.44.27.244630@localhost.localdomain...

> On Thu, 10 Jan 2008 07:54:25 -0800, Bryan wrote:
>
> <snip>
>
>> I would like to point out that "printing" to PDF
>> works only if one has a driver for that. I use PDF995
>> (www.pdf995.com)
>> which is "sponsor-ware" unless you pay a modest fee.
>> There are others as
>> well (CutePDF, etc).
>> Bryan WA7PRC
>
> OpenOffice.org
>
> Open Office has supported exporting to .pdf for years and
> is free
> open-source software.
>
> Cheers,
> __
> Gregg

   There are several freeware programs which create PDFs.

The one I use is called PDF Creator and installs as a
printer. Anything you can print can be made into a PDF. Its
a small program and seems to work very well.

www.pdfforge.org/products/pdfcreator

or www.pdfforge.org/

--

Richard Knoppow
Los Angeles, CA, USA
dickburk@ix.netcom.com

```
From 4682797598919018291
X-Google-Thread: fc2a5,a7a0589b73bf9378
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m77g2000hsc.googlegroups.com!not-for-
mail
From: lw1ecp <danyperez1@yahoo.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RCA Receiving tube manual RC-30 download link
Date: Sun, 13 Jan 2008 05:09:06 -0800 (PST)
Organization: http://groups.google.com
Lines: 4
Message-ID: <ded95aa1-2510-44d2-95b8-ffec5a1c93d3@m77g2000hsc.googlegroups.com>
References: <c885ae81-2a9f-46ba-83bf-2df0d6147a3c@z17g2000hsg.googlegroups.com>
NNTP-Posting-Host: 190.139.172.37
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1200229746 14215 127.0.0.1 (13 Jan 2008 13:09:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 13 Jan 2008 13:09:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: m77g2000hsc.googlegroups.com; posting-host=190.139.172.37;
     posting-account=J2bTrwoAAAA_H4qq0GLh7EO3_dPJZX9j
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; MEGAUPLOAD 1.0),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15053
```

Thanks a lot!. My paper version had been destroyed by fungus...
Very handy info, specially if you are always doing someting with
6DQ6s, 6DQ5s and the like.
Daniel Perez

```
From -3548026858668876062
X-Google-Thread: fcc6e,c54212ea4ed64f42
X-Google-Thread: fc2a5,c54212ea4ed64f42
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out03a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!uns-
out.usenetserver.com!news.usenetserver.com!pc02.usenetserver.com!KNOLOGY.NET-
a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <9xphj.41449$G23.11374@newsreading01.news.tds.net>
<QCAhj.409941$kj1.228642@bgtnsc04-news.ops.worldnet.att.net>
<47890454$0$5154$4c368faf@roadrunner.com> <8srn55-g6i.ln1@remote.clifto.com>
Subject: Re: How to make a triode
Date: Sun, 13 Jan 2008 09:17:28 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <8e5f8$478a2aa4$45013935$20824@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 18
X-Trace: 8e5f8478a2aa4e0a49c9020824
Xref: g2news1.google.com rec.radio.amateur.antenna:53290
rec.radio.amateur.homebrew:15054

>>>
>>> See, anything is possible with a Swiss Army Knife ;-)
>>>
>> And a spot welder.
>
> And duct tape. Or duck tape. Or Duck (TM) Tape.



>  If John McCain gets the 2008 Republican      >Presidential nomination, my
> vote for President will be >a write-in for Jiang Zemin.

 Why would you want a communist leader, don't you think the government baby
sits us enough already?
 Or, are you looking for that -free- healthcare?
                    Inquiring minds want to know,
                                          Mike





From 6926406425007384634
X-Google-Thread: fcc6e,c54212ea4ed64f42
X-Google-Thread: fc2a5,c54212ea4ed64f42
```

```
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 13 Jan 2008 10:46:48 -0600
Message-Id: <0krp55-pj5.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: Re: How to make a triode
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Date: Sun, 13 Jan 2008 10:42:07 -0600
References: <9xphj.41449$G23.11374@newsreading01.news.tds.net>
<QCAhj.409941$kj1.228642@bgtnsc04-news.ops.worldnet.att.net>
<47890454$0$5154$4c368faf@roadrunner.com> <8srn55-g6i.ln1@remote.clifto.com>
<8e5f8$478a2aa4$45013935$20824@KNOLOGY.NET>
Organization: the clifto consortium
User-Agent: KNode/0.10.5
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 13
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.15.125.52
X-Trace: sv3-
pi4Fv5231mabhcRvlOaN8Bauv+yoKPy9HAPaOfkCZJjDAkOiXFR7E2zGIlVcq6qgqZ8wql31BVPocs6!
OVmxKnpLPP2BHBIDgD7gING/z71U6YXxr7Wn9BmRWUQ8kDl24/mvoGV2P4i2xLZkSpd+H2asbmLW!
Pt4aZ/BRRxuW
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.antenna:53291
rec.radio.amateur.homebrew:15055
```

amdx wrote:

>> If John McCain gets the 2008 Republican >Presidential nomination, my
>> vote for President will be >a write-in for Jiang Zemin.
>
> Why would you want a communist leader, don't you think the government baby
> sits us enough already?

I figure if the ballot choice is between two socialists, I'll vote for a REAL socialist.

--

If John McCain gets the 2008 Republican Presidential nomination,
my vote for President will be a write-in for Jiang Zemin.

```
From 4462730297825423213
X-Google-Thread: fc2a5,6fcad510bf549a30
```

```
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bluevalley.net!
news.bluevalley.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 13 Jan 2008 10:48:00 -0600
From: Nate Bargmann <n0nb.DO.NOT.SPAM@ME.networksplus.net>
Subject: Re: Homebrew Triode !!
Newsgroups: rec.radio.amateur.homebrew
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
     <13o7vpdi9tdl0a2@corp.supernews.com>
     <gdgco31o3irj5mu0nq6megthktl44304on@4ax.com>
User-Agent: Pan/0.132 (Waxed in Black)
Message-ID: <pan.2008.01.13.16.47.56@ME.networksplus.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Date: Sun, 13 Jan 2008 10:48:00 -0600
Lines: 24
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 12.158.148.131
X-Trace: sv3-
FfNBVJ9Z0INBY5BSNAlOxCzuXfeUd6Ml0p9gEf4Hd9G6yTOghSjXSdLlRBbRNLRG+y7eEe+oqj2rL5T!
c5I2PLg3RpsxniUWr7IZhWEA6Re13gxiAumiJ7MyV9/WRV+n2a1vL0AZTzOnmfEg5B/HpI8uO0Bt!
FS2gqXf4Yermcb0i
X-Complaints-To: abuse@bluevalley.net
X-DMCA-Complaints-To: abuse@bluevalley.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15056
```

On Thu, 10 Jan 2008 10:04:03 -0600, cbx wrote:

> Anybody know where FIrefox stores the file, I searched the whole
> computer for the file name, nothing. Looked in all the obvious places,
> no luck.

Get the Unplug add-on, then you can snag all sorts of media files.

I finally got around to watching it last night. Quite impressive. After all, DeForest et.al. developed these methods when such techniques were unknown and more primitive. What he shows is that things can be done on a small scale and don't require large factories or armies of workers. Also, techniques like those he shows need to be preserved from being lost to industrial archives.

Beyond the electrical knowledge to make a tube that works, his ability to work with glass was most impressive to me.

73, de Nate >>

--

"The optimist proclaims that we live in the best of all possible worlds,
the pessimist fears this is true."

```
From 7203969166612502970
X-Google-Thread: fcc6e,c54212ea4ed64f42
X-Google-Thread: fc2a5,c54212ea4ed64f42
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!nuzba.szn.dk!
pnx.dk!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: How to make a triode
Date: Sun, 13 Jan 2008 09:04:12 -0800
Organization: albasani.net
Lines: 28
Message-ID: <fmdgaf$7cm$1@news.albasani.net>
References: <9xphj.41449$G23.11374@newsreading01.news.tds.net>
<QCAhj.409941$kj1.228642@bgtnsc04-news.ops.worldnet.att.net>
<47890454$0$5154$4c368faf@roadrunner.com> <8srn55-g6i.ln1@remote.clifto.com>
<8e5f8$478a2aa4$45013935$20824@KNOLOGY.NET>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
oLPT4POn8qrcKzsNmGKaQyjy4xUo+0ftwlU2myyWlzTKhKHWQyhTo397bJiDRPhK6ko+9h5Kt3oIeqA8Uo
E+sRenX0M2C1/D+r6RYx73crJ5kaXW4qtupcokkQj3KYYx
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Sun, 13 Jan 2008 17:04:15 +0000 (UTC)
X-User-ID: IPECbvl9UxnUMvEXhtlUMdPWBWDyGkTLvRb3/O9P6+s=
In-Reply-To: <8e5f8$478a2aa4$45013935$20824@KNOLOGY.NET>
Cancel-Lock: sha1:1RmNd5sJ3X7UcU8XRAwBQEA/gHo=
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
X-NNTP-Posting-Host: Fj3FmYKmGNtA7hevcAsi0lLqDc3XW2G8Cnk/ginM0d4=
Xref: g2news1.google.com rec.radio.amateur.antenna:53294
rec.radio.amateur.homebrew:15057
```

amdx wrote:

```
 >> ...
>  Why would you want a communist leader, don't you think the government baby
> sits us enough already?
>  Or, are you looking for that -free- healthcare?
>                    Inquiring minds want to know,
>                                               Mike
```

I think 50%+ of my earnings go to gov't. I don't think "government
would be BUYING me anything"--we would be purchasing it for ourselves.

Gasoline tax, property tax, transportation tax, booze tax, tobacco tax, federal excise--phone tax, cell phone tax, etc., etc.

Reader Digest used to do an article once a year which showed how long a person must work just to pay his her taxes--last I seen (years ago) it was past April headed for June; anyone read that article lately?

The government is "of the people, by the people and for the people", if you find anything different--there are already dark forces in the government which need removed ... while communism is certainly something we need fear--we should first correct the current clear and present danger ...

Regards,
JS

From 5486561268245006849
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!not-for-mail
From: cbx <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Triode !!
Date: Sun, 13 Jan 2008 16:58:09 -0600
Message-ID: <dl5lo3ptmsp8p8rkrd782gpg6i08coc2sm@4ax.com>
References: <TXSgj.84924$KU2.56552@newsfe11.phx> <13o7vpdi9tdl0a2@corp.supernews.com> <gdgco31o3irj5mu0nq6megthktl44304on@4ax.com> <slrnfodkkl.1o2s.bit-bucket@shell.config.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 50
Organization: Newshosting.com - Highest quality at a great price! www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15058

Just where would I type these things:

```
$ locate Cache | grep mozilla
```

and

```
$ ls -ol *.flv
>-rw-rw-r--  1 jonesy 57195626 Jan  3 20:18 HomeMadeVacuumTubes.flv
```

Do you type it in some kind of SEARCH program or just where please?

I now have the file in the cache, but can't find the cache. I don't think it's in the Mozilla directory, probably under Documents.
I cleared the cache after setting it to 100 Mb, then downloaded the file. Still looking, will try a search on *.FLV and see if it appears.

Jim

On 11 Jan 2008 02:21:10 GMT, Allodoxaphobia <bit-bucket@config.com>
wrote:

```
>On Thu, 10 Jan 2008 10:04:03 -0600, cbx wrote:
>> Anybody know where FIrefox stores the file, I searched the whole
>> computer for the file name, nothing.  Looked in all the obvious
>> places,
>> no luck.
>
>$ locate Cache | grep mozilla
>
>Mind the CaPiTAlIZatIoN there.
>
>Also, insure you have your browser set to actually _use_ cache and
>that you have your cache size set Mucho Grande!  The video is 57+ MB.
>
>$ ls -ol *.flv
>-rw-rw-r--  1 jonesy 57195626 Jan  3 20:18 HomeMadeVacuumTubes.flv
>
>(You'll want to rename it to something human-understandable getting it
>out of cache.)
>
>Jonesy
```

```
From -5112160089311820361
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Triode !!
Date: Sun, 13 Jan 2008 17:38:04 -0600
Organization: Posted via Supernews, http://www.supernews.com
```

Message-ID: <13ol7sh1avk6s82@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
<13o7vpdi9tdl0a2@corp.supernews.com> <gdgco31o3irj5mu0nq6megthktl44304on@4ax.com>
<slrnfodkkl.1o2s.bit-bucket@shell.config.com>
<dl5lo3ptmsp8p8rkrd782gpg6i08coc2sm@4ax.com>
In-Reply-To: <dl5lo3ptmsp8p8rkrd782gpg6i08coc2sm@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 14
Xref: g2news1.google.com rec.radio.amateur.homebrew:15059

cbx wrote:

> Just where would I type these things:
>
<snip>

If you are using Windows, in a cmd.exe window try:
c: (or whatever drive letter contains your moz data files)
cd \
dir /s | find "57195626"

Michael

From 7658051960036334923
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.germany.com!sn-xt-sjc-02!sn-xt-sjc-06!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Triode !!
Date: Sun, 13 Jan 2008 17:41:39 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13ol837nv0jbc43@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
<13o7vpdi9tdl0a2@corp.supernews.com> <gdgco31o3irj5mu0nq6megthktl44304on@4ax.com>
<slrnfodkkl.1o2s.bit-bucket@shell.config.com>
<dl5lo3ptmsp8p8rkrd782gpg6i08coc2sm@4ax.com> <13ol7sh1avk6s82@corp.supernews.com>
In-Reply-To: <13ol7sh1avk6s82@corp.supernews.com>

```
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 18
Xref: g2news1.google.com rec.radio.amateur.homebrew:15060

msg wrote:

Correction below:
> cbx wrote:
>
>> Just where would I type these things:
>>
> <snip>
>
> If you are using Windows, in a cmd.exe window try:
> c: (or whatever drive letter contains your moz data files)
> cd \
> dir /s | find "57195626"
   I should have typed: dir /s | find "57,195,626"
>
> Michael
>
>



From -2369212258791883682
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!not-for-
mail
From: cbx <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Triode !!
Date: Sun, 13 Jan 2008 17:57:47 -0600
Message-ID: <ss8lo39iest0e1h86nuj7g9uvt923nocms@4ax.com>
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
<13o7vpdi9tdl0a2@corp.supernews.com> <gdgco31o3irj5mu0nq6megthktl44304on@4ax.com>
<pan.2008.01.13.16.47.56@ME.networksplus.net>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 49
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15061

Where Can I get the UNPLUG add on?  Is it add on for Firefox
or for the Flash Player plugin?  I finally found the file, but all
```

```
attempts to "Unlock" the file shuts the SWF player down, even using
special unlocking software.

Anyway, can you spell out exactly how I get this add on and install it
in Firefox?



The file is stored in Windows in the following file/directory:

C;\Documents and Settings\Joe User\Local Settings\Temp\fla_B.tmp
where the _ is A,B,C,D,C.  depending on how many times you download
the thing.  Any attempts to copy are fruitless, any attempts to unlock
the file are fruitless, as the SWF pugin player just shuts down
immediately and everything disappears.  Perhaps there is some software
that can copy the file even though it is locked?  I have UNLOCKER
installed on my machine and as soon as I tell it to unlock the file,
it disappears as does the SWF player (flvplayer.swf comes up in
Mozilla when you click on the link).

In meantime I'll try to find this UNPLUG plugin at Mozilla.



On Sun, 13 Jan 2008 10:48:00 -0600, Nate Bargmann
<n0nb.DO.NOT.SPAM@ME.networksplus.net> wrote:

>On Thu, 10 Jan 2008 10:04:03 -0600, cbx wrote:
>
>> Anybody know where FIrefox stores the file, I searched the whole
>> computer for the file name, nothing.  Looked in all the obvious places,
>> no luck.
>
>Get the Unplug add-on, then you can snag all sorts of media files.
>
>I finally got around to watching it last night.  Quite impressive.  After
>all, DeForest et.al. developed these methods when such techniques were
>unknown and more primitive.  What he shows is that things can be done on
>a small scale and don't require large factories or armies of workers.
>Also, techniques like those he shows need to be preserved from being lost
>to industrial archives.
>
>Beyond the electrical knowledge to make a tube that works, his ability to
>work with glass was most impressive to me.
>
>73, de Nate >>



From 5942304084532679291
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news1.google.com!news2.google.com!news.glorb.com!multikabel.net!
feed20.multikabel.net!sn-xt-ams-06!sn-xt-ams-03!sn-post-ams-01!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Triode !!
Date: Sun, 13 Jan 2008 18:48:17 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13olc0621vdal11@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
<13o7vpdi9tdl0a2@corp.supernews.com> <gdgco31o3irj5mu0nq6megthktl44304on@4ax.com>
<pan.2008.01.13.16.47.56@ME.networksplus.net>
<ss8lo39iest0e1h86nuj7g9uvt923nocms@4ax.com>
In-Reply-To: <ss8lo39iest0e1h86nuj7g9uvt923nocms@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 43
Xref: g2news1.google.com rec.radio.amateur.homebrew:15062
```

cbx wrote:

<snip>

> The file is stored in Windows in the following file/directory:
>
> C;\Documents and Settings\Joe User\Local Settings\Temp\fla_B.tmp
> where the _ is A,B,C,D,C. depending on how many times you download
> the thing. Any attempts to copy are fruitless, any attempts to unlock
> the file are fruitless, as the SWF pugin player just shuts down
> immediately and everything disappears. Perhaps there is some software
> that can copy the file even though it is locked? I have UNLOCKER
> installed on my machine and as soon as I tell it to unlock the file,
> it disappears as does the SWF player (flvplayer.swf comes up in
> Mozilla when you click on the link).

<snip>

I use NS7.2 (Mozilla Gecko engine); I don't know the filesystem layout
of Mozilla-branded browsers so anyone with details, please chime in.
In Netscape, you can specify cache locations which can permit working
with file and directory permissions independently of volatile temp.
directories such as you have mentioned above. I have not had any
file locking problems with cache files in Netscape when copying
them from a command prompt (I don't work in a GUI). One caveat which
I mentioned before is to allocate sufficient cache size to permit
storing the full flv file and to clear the directory prior to viewing
the video in order to ensure that the file is stored and persists in
the cache.

If your Windows environment somehow prevents access to the file when it is in a cache on a local drive, try assigning your cache to a network share which may permit grabbing it from a different machine (for me, I use Netware shares for my browser's cache and it is easy to grab them from a mounted nfs filesystem on a unix box or even to undelete them with the Netware 'salvage' utility if they should vanish).

Perhaps you can use an ntfs undelete utility to recover the file from a local drive if the above methods don't work for you.

Regards,

Michael

From 4283633600168892038
X-Google-Thread: fc2a5,6fcad510bf549a30
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
post02.iad01!not-for-mail
From: cbx <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Triode !!
Date: Sun, 13 Jan 2008 18:44:58 -0600
Message-ID: <81clo3dol5cl1fkklgi7ab4d79h3o5ivr3@4ax.com>
References: <TXSgj.84924$KU2.56552@newsfe11.phx>
<13o7vpdi9tdl0a2@corp.supernews.com> <gdgco31o3irj5mu0nq6megthktl44304on@4ax.com>
<pan.2008.01.13.16.47.56@ME.networksplus.net>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 36
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:15063

Dear Nate;

Thanks, found the UNPLUG at Mozilla site, installed it, and it worked just fine, now have the file on hard drive to share with friends. Outstanding film, and thanks to you fellows for helping me find a way to get it on the computer.

Jim

On Sun, 13 Jan 2008 10:48:00 -0600, Nate Bargmann
<n0nb.DO.NOT.SPAM@ME.networksplus.net> wrote:

>On Thu, 10 Jan 2008 10:04:03 -0600, cbx wrote:
>
>> Anybody know where FIrefox stores the file, I searched the whole
>> computer for the file name, nothing. Looked in all the obvious places,
>> no luck.
>
>Get the Unplug add-on, then you can snag all sorts of media files.
>
>I finally got around to watching it last night. Quite impressive. After
>all, DeForest et.al. developed these methods when such techniques were
>unknown and more primitive. What he shows is that things can be done on
>a small scale and don't require large factories or armies of workers.
>Also, techniques like those he shows need to be preserved from being lost
>to industrial archives.
>
>Beyond the electrical knowledge to make a tube that works, his ability to
>work with glass was most impressive to me.
>
>73, de Nate >>

From 4652371854547016737
X-Google-Thread: fc2a5,df54fc5e5c49dabd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews2.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14pre (X11/20071018)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Selecting power Fets for 500 KC transmitter
References: <919e3538-c8aa-466b-8dd2-687d688828fa@s27g2000hsb.googlegroups.com>
<1_Wdncw3UqrjfunanZ2dnUVZ_vWtnZ2d@bright.net>
<MPcdj.26491$k27.25098@bignews2.bellsouth.net> <RJddj.3423$M24.1404@newsfe17.lga>
<4777D629.7010107@bellsouth.net> <fl8lqp$etf$1@theodyn.ncf.ca>
In-Reply-To: <fl8lqp$etf$1@theodyn.ncf.ca>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 49
Message-ID: <6vyij.39876$k27.29118@bignews2.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcbokinapmhnhkkjfgnkhpibdmhglmjhdnidlo
pogbkbljgobinpeengfjckflmpdmgiakngmmneimggmmdkbpcfgcmambpbobcacpfhhhckfcphkjbc

NNTP-Posting-Date: Sun, 13 Jan 2008 20:00:50 EST
Organization: BellSouth Internet Group
Date: Mon, 14 Jan 2008 01:00:58 +0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:15064
X-Original-Bytes: 3684

Michael Black wrote:
> ken scharf (wa2mzeNOSPAMBOTS@bellsouth.net) writes:
>> Uncle Peter wrote:
>>> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
>>> news:MPcdj.26491$k27.25098@bignews2.bellsouth.net...
>>> > Well a friend of mine once wanted to build a mobile transmitter for
>>>> 455khz AM and 10.7mhz FM so he could tell the bozo in the car ahead of him
>>>> where to go after he cut him off.....
>>> I hope you clued him in.. (re. 262 kHz...)
>>>
>>> Pete
>>>
>>>
>> I'm not too sure, but I think that today's car radios DO use 455khz.
>> I think they stopped using 262khz some years back when Detroit started
>> having the radios made in China and got rid of the RF stages.
>>
> Actually, most of them use 450KHz nowadays.
>
> The synthesizer ICs are designed for 450KHz, presumably because of
> some fact that makes it easier to design for that IF, such as it
> allows an existing common crystal or something.
>
> I can't think of any car radio I've opened up that had digital tuning
> and not a 450KHz IF.
>
> It's not so absolute in other types of radios, but it is still a common
> IF (which can be a real bother if you've got a shortwave receiver
> and thus can't improve selectivity with a good and relatively cheap
> used 455KHz mechanical filter).
>
> 262KHz IFs in car radios did pretty much disappear with the coming of ceramic
> filters. And no car radio is being made without ceramic filters. Though,
> I think I did see one car radio, it must have had analog tuning, that did
> have a 262KHz ceramic filter.
>
>   Michael
>
The choice of an IF frequency makes an interesting bit of radio history.
The first BC superhets used IF's from 90khz to several hundred khz.
Eventually 135khz, 150khz, and 175khz became "standard" (I remember
seeing replacement IF cans with these frequency numbers in J W Miller's
catalog.) These sets had an RF stage so were not bothered much by
images with such a low IF. Later during the depression when radio
manufacturers had to cut costs the RF stage went away (along with the
power transformers) and the IF frequency was raised to 455 (+/- a few).

Car radios needed more sensitivity and selectivity to handle fringe area reception so they retained RF stages and used a 262khz IF.

```
From -2279980539143992549
X-Google-Thread: fcc6e,c54212ea4ed64f42
X-Google-Thread: fc2a5,c54212ea4ed64f42
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 13 Jan 2008 21:33:22 -0600
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: How to make a triode
From: Mike Coslo <mcoslo@youknow.comcast.net>
References: <9xphj.41449$G23.11374@newsreading01.news.tds.net>
<QCAhj.409941$kj1.228642@bgtnsc04-news.ops.worldnet.att.net>
<47890454$0$5154$4c368faf@roadrunner.com> <8srn55-g6i.ln1@remote.clifto.com>
<8e5f8$478a2aa4$45013935$20824@KNOLOGY.NET> <fmdgaf$7cm$1@news.albasani.net>
Organization: Your Company
Message-ID: <Xns9A24E5D2F25CFmcoslocomcastnet@216.196.97.136>
User-Agent: Xnews/5.04.25
Date: Sun, 13 Jan 2008 21:33:22 -0600
Lines: 31
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.58.71.232
X-Trace: sv3-
PjhEkOnHThruwmhfnlR8ovVBkVRZFX9EiCFr+BfJTVZPBqMtYqVlt6RzMfdmzvVVkqhQx5lB9gG+OVz!
Dxs+vdS6O1jAM9ePaCq0KurDGxCfyGX8OtbW4nlhIY/j4Y0/emhHP5PgAh4ixSAMnKG598nB+Lc1!
sS2uC6OmsRg3B61EIMCedf4qx/BL3mxX
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.antenna:53325
rec.radio.amateur.homebrew:15065
```

John Smith <assemblywizard@gmail.com> wrote in
news:fmdgaf$7cm$1@news.albasani.net:

```
> amdx wrote:
>
> >> ...
>>  Why would you want a communist leader, don't you think the
>>  government baby
>> sits us enough already?
>>  Or, are you looking for that -free- healthcare?
>>                     Inquiring minds want to know,
>>                                            Mike
>
```

> I think 50%+ of my earnings go to gov't. I don't think "government
> would be BUYING me anything"--we would be purchasing it for ourselves.
>
> Gasoline tax, property tax, transportation tax, booze tax, tobacco
> tax, federal excise--phone tax, cell phone tax, etc., etc.
>
> Reader Digest used to do an article once a year which showed how long
> a person must work just to pay his her taxes--last I seen (years ago)
> it was past April headed for June; anyone read that article lately?
>
> The government is "of the people, by the people and for the people",
> if you find anything different--there are already dark forces in the
> government which need removed ... while communism is certainly
> something we need fear--we should first correct the current clear and
> present danger ...

How on earth did this thread morph to this stuff?

```
From 8063394517904332014
X-Google-Thread: fcc6e,c54212ea4ed64f42
X-Google-Thread: fc2a5,c54212ea4ed64f42
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr27.news.prodigy.net.POSTED!0d06e27e!not-for-
mail
From: "Tom Donaly" <dtdonaly@sbcglobal.net>
User-Agent: Thunderbird 1.5.0.14 (Windows/20071210)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: How to make a triode
References: <9xphj.41449$G23.11374@newsreading01.news.tds.net>
<QCAhj.409941$kj1.228642@bgtnsc04-news.ops.worldnet.att.net>
<47890454$0$5154$4c368faf@roadrunner.com> <8srn55-g6i.ln1@remote.clifto.com>
<8e5f8$478a2aa4$45013935$20824@KNOLOGY.NET> <fmdgaf$7cm$1@news.albasani.net>
<Xns9A24E5D2F25CFmcoslocomcastnet@216.196.97.136>
In-Reply-To: <Xns9A24E5D2F25CFmcoslocomcastnet@216.196.97.136>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 36
Message-ID: <_WBij.35822$lD6.4577@newssvr27.news.prodigy.net>
NNTP-Posting-Host: 12.72.159.164
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr27.news.prodigy.net 1200286522 ST000 12.72.159.164 (Sun, 13 Jan
2008 23:55:22 EST)
NNTP-Posting-Date: Sun, 13 Jan 2008 23:55:22 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
Q[R_PJONQBS[RQPXOBHVNFXBWR\HPCTL@XT^OBPLAH[\BPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Mon, 14 Jan 2008 04:55:22 GMT
Xref: g2news1.google.com rec.radio.amateur.antenna:53330
rec.radio.amateur.homebrew:15066

Mike Coslo wrote:
> John Smith <assemblywizard@gmail.com> wrote in
> news:fmdgaf$7cm$1@news.albasani.net:
>
>> amdx wrote:
>>
>>>> ...
>>>  Why would you want a communist leader, don't you think the
>>>  government baby
>>> sits us enough already?
>>>  Or, are you looking for that -free- healthcare?
>>>                     Inquiring minds want to know,
>>>                                           Mike
>> I think 50%+ of my earnings go to gov't.  I don't think "government
>> would be BUYING me anything"--we would be purchasing it for ourselves.
>>
>> Gasoline tax, property tax, transportation tax, booze tax, tobacco
>> tax, federal excise--phone tax, cell phone tax, etc., etc.
>>
>> Reader Digest used to do an article once a year which showed how long
>> a person must work just to pay his her taxes--last I seen (years ago)
>> it was past April headed for June; anyone read that article lately?
>>
>> The government is "of the people, by the people and for the people",
>> if you find anything different--there are already dark forces in the
>> government which need removed ... while communism is certainly
>> something we need fear--we should first correct the current clear and
>> present danger ...
>
>
> How on earth did this thread morph to this stuff?

All it takes is just one poster wearing a tinfoil hat for something
like this to get started.
73,
Tom Donaly, KA6RUH


From -7874723802495639105
X-Google-Thread: fc2a5,251cf923a9c71eae
X-Google-Thread: fc8b1,251cf923a9c71eae
X-Google-Attributes: gidfc2a5,gidfc8b1,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!eweka.nl!lightspeed.eweka.nl!
138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-08!sn-post-ams-01!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
```

Subject: Re: Peter Dahl going out of business...
Date: Tue, 25 Dec 2007 15:15:29 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13n2sdknhei8l51@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <Pine.NEB.4.64.0712242126180.10840@panix2.panix.com> <fkrinh$g7d$1@panix2.panix.com> <dRdcj.32632$N67.14399@bignews5.bellsouth.net> <Pine.NEB.4.64.0712251550090.954@panix2.panix.com>
In-Reply-To: <Pine.NEB.4.64.0712251550090.954@panix2.panix.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 37
Xref: g2news1.google.com rec.radio.amateur.homebrew:14916 rec.radio.amateur.boatanchors:13522

<snip>

>> Scott Dorsey wrote:
>>
>>> Straydog <asd@panix.com> wrote:
>>>
>>>> I was going to look up modulation transformers and googled on Peter
>>>> Dahl, and there was a link to a ARRL URL where they said he's got
>>>> Parkinsons and the company is going to close doors Dec 31, 2007.

<snip>

>>>> So, now what are we going to do for weirdo stuff like plate
>>>> modulation transformers?

Whatever happened to surplus savvy? In our area, not major metropolitan
by any means, there are DoD sales, surplus outlets, many hamfests, etc.
with no shortage of heavy iron.

>>>
>>>
>>> Getting weirdo stuff rebuilt isn't all that difficult, if it's large
>>> enough. There are a couple good transformer rebuild shops in my
>>> state which mostly do pole pigs but can be encouraged to work on big
>>> chokes,
>>> power and modulation transformers if the money is right. But getting
>>> brand new stuff.... there's nobody like Dahl. And getting
>>> rebuilds for small transformers.... again, the guys are unique.

I also recommend rewinding houses; even here there was (haven't checked
recently) a good transformer rewinding house that did small stuff
for very little money. Feel free to do it yourself as well; everyone
should try at least once.

Regards

Michael

```
From -7533075069122503294
X-Google-Thread: fc2a5,251cf923a9c71eae
X-Google-Thread: fc8b1,251cf923a9c71eae
X-Google-Attributes: gidfc2a5,gidfc8b1,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 25 Dec 2007 15:19:48 -0600
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Peter Dahl going out of business...
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
References: <Pine.NEB.4.64.0712242126180.10840@panix2.panix.com>
User-Agent: Pan/0.129 (Benson & Hedges Moscow Gold)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <XK-dnQ_EJcRo7uzanZ2dnUVZ_qninZ2d@web-ster.com>
Date: Tue, 25 Dec 2007 15:19:49 -0600
Lines: 21
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 65.182.233.58
X-Trace: sv3-5oTfuLORQHj1+tV9rLqIzOfGvkr+suo1nwbSIhMbyu9NmrlRVQswsAsATi/
WY+ErzKkxWkPqf1Afl2a!/ZqpqhAUi6RWLr+Z/6FGKqXi0ILJm4El8ghUjUlWshkdIoc8k/
4Jf0s3SnsDRpWApVHm0VwK+KRo!HRoKH0g5HUV2H0U=
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:14917
rec.radio.amateur.boatanchors:13523
```

On Mon, 24 Dec 2007 21:28:23 -0500, Straydog wrote:

> I was going to look up modulation transformers and googled on Peter
> Dahl, and there was a link to a ARRL URL where they said he's got
> Parkinsons and the company is going to close doors Dec 31, 2007.
>
> So, now what are we going to do for weirdo stuff like plate modulation
> transformers?

Hopefully someone will be able to buy them out, and continue the service. If it's fun and/or makes money it'll happen, unless Mr. Dahl is too eccentric to let go of his business.

--

Tim Wescott
Control systems and communications consulting
http://www.wescottdesign.com

Need to learn how to apply control theory in your embedded system?
"Applied Control Theory for Embedded Systems" by Tim Wescott
Elsevier/Newnes, http://www.wescottdesign.com/actfes/actfes.html

```
From -3171277737549290327
X-Google-Thread: fc2a5,251cf923a9c71eae
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-
mail
NNTP-Posting-Date: Wed, 26 Dec 2007 04:02:27 -0600
From: "Bryan" <bryan.swadenerNOSPAM@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Pine.NEB.4.64.0712242126180.10840@panix2.panix.com>
Subject: Re: Peter Dahl going out of business...
Date: Wed, 26 Dec 2007 02:02:32 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <YKmdnbSmic4pu-_anZ2dnUVZ_rqlnZ2d@giganews.com>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-V7QLxBPbT/eSSsUKKwYKNFBtGbyxmjLYb8kHOLZ5CGlW2g/
kEXtTHI6EFrlCRzJIyh8M9Qe/h0Wp+Q6!N5VNjCfSjhSPMTKxLf74dGiOGBlp/
1xtp68yWBXd5mgOPvuVQBRO1S1yRajayD2KBHSfWacLL/A=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:14918
```

Straydog wrote:
>
> I was going to look up modulation transformers and googled on Peter Dahl,
> and there was a link to a ARRL URL where they said he's got Parkinsons and
> the company is going to close doors Dec 31, 2007.
>
> So, now what are we going to do for weirdo stuff like plate modulation
> transformers?
>

Wow! This is indeed sad news for hams & others but, mostly for Mr. Dahl and his family.

Bryan WA7PRC

```
From -7942575069728982177
X-Google-Thread: fc2a5,251cf923a9c71eae
X-Google-Thread: fc8b1,251cf923a9c71eae
X-Google-Attributes: gidfc2a5,gidfc8b1,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-out.readnews.com!
transit4.readnews.com!panix!panix1.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Peter Dahl going out of business...
Date: Wed, 26 Dec 2007 13:45:23 -0500
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 36
Message-ID: <Pine.NEB.4.64.0712261343260.26871@panix1.panix.com>
References: <Pine.NEB.4.64.0712242126180.10840@panix2.panix.com>
 <XK-dnQ_EJcRo7uzanZ2dnUVZ_qninZ2d@web-ster.com>
NNTP-Posting-Host: panix1.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1198694727 2756 166.84.1.1 (26 Dec 2007 18:45:27 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 26 Dec 2007 18:45:27 +0000 (UTC)
In-Reply-To: <XK-dnQ_EJcRo7uzanZ2dnUVZ_qninZ2d@web-ster.com>
X-Original-Bytes: 2220
Xref: g2news1.google.com rec.radio.amateur.homebrew:14919
rec.radio.amateur.boatanchors:13526
```

```
On Tue, 25 Dec 2007, Tim Wescott wrote:

> On Mon, 24 Dec 2007 21:28:23 -0500, Straydog wrote:
>
>> I was going to look up modulation transformers and googled on Peter
>> Dahl, and there was a link to a ARRL URL where they said he's got
>> Parkinsons and the company is going to close doors Dec 31, 2007.
>>
>> So, now what are we going to do for weirdo stuff like plate modulation
>> transformers?
>
> Hopefully someone will be able to buy them out, and continue the
> service.  If it's fun and/or makes money it'll happen, unless Mr. Dahl is
> too eccentric to let go of his business.
>
> --
> Tim Wescott
```

> Control systems and communications consulting
> http://www.wescottdesign.com
>
> Need to learn how to apply control theory in your embedded system?
> "Applied Control Theory for Embedded Systems" by Tim Wescott
> Elsevier/Newnes, http://www.wescottdesign.com/actfes/actfes.html
>

Well, I called their non-800 number this morning (my nickle) and got a generic recorded message on an answering machine (but it invited me to call PD at home or his cell phone and gave the numbers, but I am not ready to make a casual call under the circumstances).

I'm thinking about going back to the website and get some email addresses and try them next.

```
From 3777347288542074199
X-Google-Thread: fc2a5,df54fc5e5c49dabd,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s27g2000hsb.googlegroups.com!not-for-
mail
From: WA4SZE@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Selecting power Fets  for 500 KC transmitter
Date: Thu, 27 Dec 2007 20:52:20 -0800 (PST)
Organization: http://groups.google.com
Lines: 28
Message-ID: <919e3538-c8aa-466b-8dd2-687d688828fa@s27g2000hsb.googlegroups.com>
NNTP-Posting-Host: 4.153.65.192
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1198817540 11523 127.0.0.1 (28 Dec 2007 04:52:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 28 Dec 2007 04:52:20 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s27g2000hsb.googlegroups.com; posting-host=4.153.65.192;
     posting-account=Az4a0AoAAABVO_Fcm8IPPyZ7JXoXtkvs
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14920
```

Greetings!!!

I plan on building a 500 KC transmitter, 200 watts output. I have never worked with power FETS before.

What is the selection method used in determining which FET to use??
I see some great FETS
cheap.

Example: IRFP254

250 volt Vdss

RDS on .14

Amps 32 amps

Rise time : 51 NS

Cost; 2.50 each

The data sheet does not spec any freq's (Ft) like bipolar
transistors?? How do I select the right FET??? freq range

Thanks!!!

The 500 KC transmitter will run at 28 VDC

```
From -8049116749974179242
X-Google-Thread: fc2a5,10c5763b449ad447,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!x29g2000prg.googlegroups.com!not-for-
mail
From: WA4SZE@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Mounting Toriods
Date: Thu, 27 Dec 2007 20:57:47 -0800 (PST)
Organization: http://groups.google.com
Lines: 14
Message-ID: <ea5a7551-574b-4688-8ec8-742fccb7397a@x29g2000prg.googlegroups.com>
NNTP-Posting-Host: 4.153.65.192
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1198817867 12569 127.0.0.1 (28 Dec 2007 04:57:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 28 Dec 2007 04:57:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x29g2000prg.googlegroups.com; posting-host=4.153.65.192;
     posting-account=Az4a0AoAAABVO_Fcm8IPPyZ7JXoXtkvs
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14921
```

Greetings!!!

Can a Toriod   transformer be Glued to a heat sink???   The Toroid will be JB welded to the heat sink.

The toroid will be wound with a 30 degree gap between the start of the winding to the end of the windings   the toroid will (winding gap) be glued at that that point vertical position   the windings will be about 1/4 inch above the heat sink.

Comments???

Thanks!!!

```
From 4359056971623297709
X-Google-Thread: fc2a5,df54fc5e5c49dabd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 28 Dec 2007 05:52:30 -0600
Date: Fri, 28 Dec 2007 11:52:29 +0000
From: Scott <acepilot@bloomer.net>
Reply-To:  acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Selecting power Fets  for 500 KC transmitter
References: <919e3538-c8aa-466b-8dd2-687d688828fa@s27g2000hsb.googlegroups.com>
In-Reply-To: <919e3538-c8aa-466b-8dd2-687d688828fa@s27g2000hsb.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <1_Wdncw3UqrjfunanZ2dnUVZ_vWtnZ2d@bright.net>
Lines: 38
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-RuJPOjpu8A2gj9ZuGiGIQxSCvbBcHEvAxfC5/
uKLY2KBsy4yA0VPaK707jSjp+3uQn40gGcrnw6Jpts!
UNMBVtNgNPnKWdyw+Ismh1NqaIG2cbyd9CIw0DwarbtqmHlDdehaHTA2xFehXGygPK4a3lgM5HVk!
11HXYgKkqQ==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:14922
```

I can hardly imagine just about any device like this having an Ft so low that it wouldn't work at 500 KHz. What ham band do we have at 500 KHz?

WA4SZE@gmail.com wrote:
> Greetings!!!
>
>
> I plan on building a 500 KC transmitter, 200 watts output. I have
> never worked with power FETS before.
>
> What is the selection method used in determining which FET to use??
> I see some great FETS
> cheap.
>
> Example: IRFP254
>
> 250 volt Vdss
>
> RDS on .14
>
> Amps 32 amps
>
> Rise time : 51 NS
>
> Cost; 2.50 each
>
> The data sheet does not spec any freq's (Ft) like bipolar
> transistors??   How do I select the right FET??? freq range
>
> Thanks!!!
>
> The 500 KC transmitter will run at 28 VDC

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

From -5057587364099168548
X-Google-Thread: fc2a5,10c5763b449ad447
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!s27g2000hsb.googlegroups.com!not-for-mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Mounting Toriods
Date: Fri, 28 Dec 2007 04:18:36 -0800 (PST)
Organization: http://groups.google.com
Lines: 19
Message-ID: <703f7923-d81e-45fb-98ac-5aab504fd3f6@s27g2000hsb.googlegroups.com>
References: <ea5a7551-574b-4688-8ec8-742fccb7397a@x29g2000prg.googlegroups.com>

```
NNTP-Posting-Host: 97.84.159.244
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1198844316 32291 127.0.0.1 (28 Dec 2007 12:18:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 28 Dec 2007 12:18:36 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s27g2000hsb.googlegroups.com; posting-host=97.84.159.244;
     posting-account=K8YolwoAAADy0A2iW37gF9k2mykeXqaI
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
     SV1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14923

On Dec 27, 11:57=A0pm, WA4...@gmail.com wrote:
> Greetings!!!
>
> Can a Toriod =A0 transformer be Glued to a heat sink??? =A0 The =A0Toroid
> will be JB welded to the heat sink.
>
> The toroid will be wound =A0with a 30 degree gap =A0between the start of
> the winding to the end of the windings =A0 the toroid will ( winding
> gap) =A0be glued at that that point =A0vertical position =A0 the windings
> will be about 1/4 inch above the heat sink.
>
> Comments???
>
> Thanks!!!

Ummm, not a good idea from my experience... I would be happier to see
a non metallic spacer between the toroid and the heat sink...

denny


From 5385974080018683363
X-Google-Thread: fc2a5,df54fc5e5c49dabd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!j64g2000hsj.googlegroups.com!not-for-
mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Selecting power Fets for 500 KC transmitter
Date: Fri, 28 Dec 2007 04:27:22 -0800 (PST)
Organization: http://groups.google.com
Lines: 19
Message-ID: <b53b1dc5-35ce-4230-a6d9-cf940f6bf90b@j64g2000hsj.googlegroups.com>
References: <919e3538-c8aa-466b-8dd2-687d688828fa@s27g2000hsb.googlegroups.com>
     <1_Wdncw3UqrjfunanZ2dnUVZ_vWtnZ2d@bright.net>
NNTP-Posting-Host: 97.84.159.244
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1198844843 1498 127.0.0.1 (28 Dec 2007 12:27:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 28 Dec 2007 12:27:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j64g2000hsj.googlegroups.com; posting-host=97.84.159.244;
     posting-account=K8YolwoAAADy0A2iW37gF9k2mykeXqaI
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
     SV1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14924
```

>
> --
> Scotthttp://corbenflyer.tripod.com/
> Gotta Fly or Gonna Die
> Building RV-4 (Super Slow Build Version)- Hide quoted text -
>
> - Show quoted text -

There are Part 5 licenses recently issued for a 2 year duration 505 to
515 KC to WD2XSH for 20 watts ERP...
I doubt that even 200 watts will get you there with any normal ham
antenna...

denny / k8do

RV7 - even super SLOWER build....

```
From 7438012826553724193
X-Google-Thread: fc2a5,10c5763b449ad447
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e10g2000prf.googlegroups.com!not-for-
mail
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Mounting Toriods
Date: Fri, 28 Dec 2007 09:52:17 -0800 (PST)
Organization: http://groups.google.com
Lines: 26
Message-ID: <9635aba7-04bb-45d5-bda7-cec40b8271fd@e10g2000prf.googlegroups.com>
References: <ea5a7551-574b-4688-8ec8-742fccb7397a@x29g2000prg.googlegroups.com>
NNTP-Posting-Host: 72.0.177.83
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1198864337 2440 127.0.0.1 (28 Dec 2007 17:52:17 GMT)
```

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 28 Dec 2007 17:52:17 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e10g2000prf.googlegroups.com; posting-host=72.0.177.83;
     posting-account=LQVNZAkAAAAHQ9vQRrCB-Qc9fLbREhw4
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14925

On Dec 27, 8:57 pm, WA4...@gmail.com wrote:
> Greetings!!!
>
> Can a Toriod   transformer be Glued to a heat sink???   The  Toroid
> will be JB welded to the heat sink.
>
> The toroid will be wound  with a 30 degree gap  between the start of
> the winding to the end of the windings   the toroid will ( winding
> gap)  be glued at that that point  vertical position   the windings
> will be about 1/4 inch above the heat sink.
>
> Comments???
>
> Thanks!!!

Is the toroid getting so hot that RTV will not work? If so, then you
have other problems. Toroids are not supposed to get hot! Most toroids
are attached to circuit boards with RTV. I have never seen one needing
a heat sink.

JB Weld is wonderful stuff, but will crack if subjected to stress or
vibration. If you still want to go ahead with this, you need to make a
rough surface on the toroid and the heat sink to give the JB Weld a
place to attach to.

Paul, KD7HB



From 5051466894652115112
X-Google-Thread: fc2a5,df54fc5e5c49dabd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews2.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14pre (X11/20071018)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Selecting power Fets  for 500 KC transmitter
References: <919e3538-c8aa-466b-8dd2-687d688828fa@s27g2000hsb.googlegroups.com>
<1_Wdncw3UqrjfunanZ2dnUVZ_vWtnZ2d@bright.net>
In-Reply-To: <1_Wdncw3UqrjfunanZ2dnUVZ_vWtnZ2d@bright.net>
```

```
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 37
Message-ID: <MPcdj.26491$k27.25098@bignews2.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcbopagejmfohjgfcdnlhpibdmhglmjhdnidjc
mldddhhopfedhdpnmmdbihkkdhndgaihbbjoldfngcmehndfdmadepnadlkceijjhkmcgcaokgfgda
NNTP-Posting-Date: Fri, 28 Dec 2007 15:15:40 EST
Organization: BellSouth Internet Group
Date: Fri, 28 Dec 2007 20:15:53 +0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:14926

Scott wrote:
> I can hardly imagine just about any device like this having an Ft so low
> that it wouldn't work at 500 KHz.  What ham band do we have at 500 KHz?
>
> WA4SZE@gmail.com wrote:
>> Greetings!!!
>>
>>
>> I plan on building a 500 KC transmitter, 200 watts output. I have
>> never worked with power FETS  before.
>>
>> What is the selection method used in determining which FET to use??
>> I see some great FETS
>> cheap.
>>
>> Example: IRFP254
>>
>> 250 volt Vdss
>>
>> RDS on  .14
>>
>> Amps  32 amps
>>
>> Rise time :  51 NS
>>
>> Cost; 2.50 each
>>
>> The data  sheet does not spec any  freq's ( Ft)  like bipolar
>> transistors??   How do I select the  right  FET???  freq range
>>
>> Thanks!!!
>>
>> The 500 KC transmitter will run at 28 VDC
>
Well a friend of mine once wanted to build a mobile transmitter for
455khz AM and 10.7mhz FM so he could tell the bozo in the car ahead of
him where to go after he cut him off.....
```

```
From 1330539784925953934
X-Google-Thread: fc2a5,df54fc5e5c49dabd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe17.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <919e3538-c8aa-466b-8dd2-687d688828fa@s27g2000hsb.googlegroups.com>
<1_Wdncw3UqrjfunanZ2dnUVZ_vWtnZ2d@bright.net>
<MPcdj.26491$k27.25098@bignews2.bellsouth.net>
Subject: Re: Selecting power Fets  for 500 KC transmitter
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <RJddj.3423$M24.1404@newsfe17.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: newsmaster@cox.net
X-Trace: newsfe17.lga 1198876657 72.209.25.33 (Fri, 28 Dec 2007 14:17:37 MST)
NNTP-Posting-Date: Fri, 28 Dec 2007 14:17:37 MST
Organization: Cox
Date: Fri, 28 Dec 2007 16:17:35 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:14927


"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:MPcdj.26491$k27.25098@bignews2.bellsouth.net...
 > Well a friend of mine once wanted to build a mobile transmitter for
> 455khz AM and 10.7mhz FM so he could tell the bozo in the car ahead of him
> where to go after he cut him off.....

I hope you clued him in.. (re. 262 kHz...)

Pete





From 1801435689401895776
X-Google-Thread: fc2a5,df54fc5e5c49dabd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 28 Dec 2007 18:03:46 -0600
Date: Sat, 29 Dec 2007 00:03:45 +0000
From: Scott <acepilot@bloomer.net>
Reply-To:  acepilot@bloomerdotnet
```

```
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Selecting power Fets for 500 KC transmitter
References: <919e3538-c8aa-466b-8dd2-687d688828fa@s27g2000hsb.googlegroups.com>
     <1_Wdncw3UqrjfunanZ2dnUVZ_vWtnZ2d@bright.net> <b53b1dc5-35ce-4230-a6d9-
cf940f6bf90b@j64g2000hsj.googlegroups.com>
In-Reply-To: <b53b1dc5-35ce-4230-a6d9-cf940f6bf90b@j64g2000hsj.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <UbCdnZrS_dx_E-janZ2dnUVZ_oytnZ2d@bright.net>
Lines: 32
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
HLWiLOtxTtyAq0BiX9QnMyxCWiiI70oAx2qCkSf4NtLuDp3pz9uwyItyUnnSZmLZZ8fiqY3Qj8vzvOE!
dTTO8ZH3NKFjBqx3ivhChGJwVnGDTkoqWSKDqmHYbIvnk7ZGnioUbyuAJ/k6NlD5xVqRUf2OggAR!
ex2gCHe+oA==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:14928
```

It is a temporary authorization to specific hams or is it for something completely different and it just happens to be a ham who asked the original question??

Scott
N0EDV

Denny wrote:

```
>>--
>>Scotthttp://corbenflyer.tripod.com/
>>Gotta Fly or Gonna Die
>>Building RV-4 (Super Slow Build Version)- Hide quoted text -
>>
>>- Show quoted text -
>
>
> There are Part 5 licenses recently issued for a 2 year duration 505 to
> 515 KC to WD2XSH for 20 watts ERP...
> I doubt that even 200 watts will get you there with any normal ham
> antenna...
>
>
>
> denny / k8do
>
```

> RV7 - even super SLOWER build....

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

From 4188761523810264812
X-Google-Thread: fc2a5,df54fc5e5c49dabd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 28 Dec 2007 18:04:44 -0600
Date: Sat, 29 Dec 2007 00:04:44 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Selecting power Fets for 500 KC transmitter
References: <919e3538-c8aa-466b-8dd2-687d688828fa@s27g2000hsb.googlegroups.com>
<1_Wdncw3UqrjfunanZ2dnUVZ_vWtnZ2d@bright.net>
<MPcdj.26491$k27.25098@bignews2.bellsouth.net>
In-Reply-To: <MPcdj.26491$k27.25098@bignews2.bellsouth.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <UbCdnZXS_dyBEujanZ2dnUVZ_ozinZ2d@bright.net>
Lines: 54
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-NtBfyGo6u9Ql2bOf3Swx+hFxyR1BmD85R+gWDkpnPOqBUf5LnJxGUkbrViwpsYUbxMTiv9RCUel5aSe!GvPbZ6h7S6x90yKvowF4nMxnFGg6fkTc6rwzMDE1WMfGMkbAJ8EMadhGN5woPy6FvH+Q/rR9WQ2p!AuUO3Wd79g==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:14929

LOL!! That might be more fun then using "the finger"

Scott

ken scharf wrote:

> Scott wrote:
>
>> I can hardly imagine just about any device like this having an Ft so
>> low that it wouldn't work at 500 KHz. What ham band do we have at 500
>> KHz?
>>
>> WA4SZE@gmail.com wrote:
>>
>>> Greetings!!!
>>>
>>>
>>> I plan on building a 500 KC transmitter, 200 watts output. I have
>>> never worked with power FETS before.
>>>
>>> What is the selection method used in determining which FET to use??
>>> I see some great FETS
>>> cheap.
>>>
>>> Example: IRFP254
>>>
>>> 250 volt Vdss
>>>
>>> RDS on .14
>>>
>>> Amps 32 amps
>>>
>>> Rise time : 51 NS
>>>
>>> Cost; 2.50 each
>>>
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>>> transistors??   How do I select the right FET??? freq range
>>>
>>> Thanks!!!
>>>
>>> The 500 KC transmitter will run at 28 VDC
>>
>>
> Well a friend of mine once wanted to build a mobile transmitter for
> 455khz AM and 10.7mhz FM so he could tell the bozo in the car ahead of
> him where to go after he cut him off.....

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

From 2989313754638134112
X-Google-Thread: fc2a5,df54fc5e5c49dabd

X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 28 Dec 2007 18:54:21 -0600
Message-Id: <68ig45-hae.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: Re: Selecting power Fets for 500 KC transmitter
Newsgroups: rec.radio.amateur.homebrew
Date: Fri, 28 Dec 2007 18:50:46 -0600
References: <919e3538-c8aa-466b-8dd2-687d688828fa@s27g2000hsb.googlegroups.com>
<1_Wdncw3UqrjfunanZ2dnUVZ_vWtnZ2d@bright.net>
<MPcdj.26491$k27.25098@bignews2.bellsouth.net>
Organization: the clifto consortium
User-Agent: KNode/0.10.5
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 13
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.15.125.52
X-Trace: sv3-
fhpIntkEpznpCFZEKciNaQffTfYAyNZHfd2QqCn94w6+5VpZcSaDd60JSVrcVuHefSEdRQkDJBqsWnP!
uawGUQ2woABHTWJSZkBBaL62EkxZPozdbo4GkwgYlD/oKUZSM6T4Q/GySgQGGXk/5WpZzAbl8oCG!
nQ5Yc8G/j4j7
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:14930

ken scharf wrote:
> Well a friend of mine once wanted to build a mobile transmitter for
> 455khz AM and 10.7mhz FM so he could tell the bozo in the car ahead of
> him where to go after he cut him off.....

"This is God. You don't even want to know what I'm going to do to you for
cutting that poor beloved gentleman off. Just don't make any long-term
plans."

--
Dec. 6 (Bloomberg) -- Government officials and activists flying to Bali,
Indonesia, for the United Nations meeting on climate change will cause
as much pollution as 20,000 cars in a year.

From 3455994774275521186
X-Google-Thread: fc2a5,10c5763b449ad447
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII

Path: g2news1.google.com!postnews.google.com!i29g2000prf.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Mounting Toriods
Date: Fri, 28 Dec 2007 19:02:08 -0800 (PST)
Organization: http://groups.google.com
Lines: 21
Message-ID: <f877a6f1-9690-4b70-8c28-a4a7b1790668@i29g2000prf.googlegroups.com>
References: <ea5a7551-574b-4688-8ec8-742fccb7397a@x29g2000prg.googlegroups.com>
NNTP-Posting-Host: 63.73.218.139
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1198897328 6736 127.0.0.1 (29 Dec 2007 03:02:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 29 Dec 2007 03:02:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i29g2000prf.googlegroups.com; posting-host=63.73.218.139;
posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14931

On Dec 27, 11:57=A0pm, WA4...@gmail.com wrote:

> Greetings!!!
>
> Can a Toriod =A0 transformer be Glued to a heat sink??? =A0 The =A0Toroid
> will be JB welded to the heat sink.
>
> The toroid will be wound =A0with a 30 degree gap =A0between the start of
> the winding to the end of the windings =A0 the toroid will (winding
> gap) =A0be glued at that that point =A0vertical position =A0 the windings
> will be about 1/4 inch above the heat sink.
>
> Comments???

Are you trying to heat sink the transformer? That's a mistake. The glue will be an insulator, not a conductor!

If you're just physically mounting it, a good stiff bolt running through the center, with some rubber isolation, is how I always see it done.

Tim.

From -1912873254603237473
X-Google-Thread: fc2a5,10c5763b449ad447
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!

nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 28 Dec 2007 23:09:11 -0600
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
Subject: Re: Mounting Toriods
Newsgroups: rec.radio.amateur.homebrew
Date: Fri, 28 Dec 2007 21:06:57 -0800
References: <ea5a7551-574b-4688-8ec8-742fccb7397a@x29g2000prg.googlegroups.com>
<f877a6f1-9690-4b70-8c28-a4a7b1790668@i29g2000prf.googlegroups.com>
User-Agent: KNode/0.8.2
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8Bit
Message-ID: <Z5udnRReQ6zqS-janZ2dnUVZ8hydnZ2d@pipex.net>
Lines: 27
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.106.252.165
X-Trace: sv3-b0I5oBhS6uqcs5coxAPR6oAm+5h69EJVSOp+HDamgwicJJtCNOclCsci/
x9NilVcEmrkgGD4HzXx0fd!U3k8mN+A8x6eK0q2NEq+dY9tO/
MbD5wkLd0tROuNjXzdUNu+3VoH0UcbG6JmrZJ7AtDHdiCwDBzB!vGXb0sQakS8zO5PAmeaujG0ABYY=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:14932

Tim Shoppa wrote:

> On Dec 27, 11:57�pm, WA4...@gmail.com wrote:
>> Greetings!!!
>>
>> Can a Toriod � transformer be Glued to a heat sink??? � The �Toroid
>> will be JB welded to the heat sink.
>>
>> The toroid will be wound �with a 30 degree gap �between the start of
>> the winding to the end of the windings � the toroid will (winding
>> gap) �be glued at that that point �vertical position � the windings
>> will be about 1/4 inch above the heat sink.
>>
>> Comments???
>
> Are you trying to heat sink the transformer? That's a mistake. The
> glue will be an insulator, not a conductor!
>
> If you're just physically mounting it, a good stiff bolt running
> through the center, with some rubber isolation, is how I always see it
> done.

==================
A toroid carrying a RF signal should never get hot ......if it does there is
a serious design problem.

```
Frank     KN6WH  /  GM0CSZ



From -7097860018693456081
X-Google-Thread: fc2a5,df54fc5e5c49dabd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!eweka.nl!lightspeed.eweka.nl!
195.114.231.69.MISMATCH!feeder.news-service.com!news.germany.com!
feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Selecting power Fets  for 500 KC transmitter
Message-ID: <sf6cn3tc5lmcb65r603uidsv2anpsljt3l@4ax.com>
References: <919e3538-c8aa-466b-8dd2-687d688828fa@s27g2000hsb.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 40
Date: Sat, 29 Dec 2007 11:58:27 +0200
NNTP-Posting-Host: 195.197.6.238
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1198922140 195.197.6.238 (Sat, 29 Dec 2007
11:55:40 EET)
NNTP-Posting-Date: Sat, 29 Dec 2007 11:55:40 EET
Organization: Saunalahti Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:14933

On Thu, 27 Dec 2007 20:52:20 -0800 (PST), WA4SZE@gmail.com wrote:

>Greetings!!!
>
>
>I plan on building a 500 KC transmitter, 200 watts output. I have
>never worked with power FETS  before.
>
>What is the selection method used in determining which FET to use??
>I see some great FETS
>cheap.
>
>Example: IRFP254
>
>250 volt Vdss
>
>RDS on  .14
>
>Amps  32 amps
>
>Rise time :  51 NS
>
>Cost; 2.50 each
```

>
>The data sheet does not spec any freq's (Ft) like bipolar
>transistors?? How do I select the right FET??? freq range
>
>Thanks!!!
>
>The 500 KC transmitter will run at 28 VDC

Those FETs have usually quite large gate capacitances (nanofarads), so in order to rapidly change the gate voltage (and hence the drain-source current) rapidly, the driver stage may have to supply a significant current to charge and discharge this gate capacitance. In many cases, the driver current limit may limit the operating speed of the circuit.

Paul OH3LWR

From 9169354265024803198
X-Google-Thread: fc2a5,10c5763b449ad447
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e25g2000prg.googlegroups.com!not-for-mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Mounting Toriods
Date: Sat, 29 Dec 2007 06:07:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 9
Message-ID: <c3370929-11db-4c80-87ac-a6166821bfc3@e25g2000prg.googlegroups.com>
References: <ea5a7551-574b-4688-8ec8-742fccb7397a@x29g2000prg.googlegroups.com>
<f877a6f1-9690-4b70-8c28-a4a7b1790668@i29g2000prf.googlegroups.com>
<Z5udnRReQ6zqS-janZ2dnUVZ8hydnZ2d@pipex.net>
NNTP-Posting-Host: 97.84.159.244
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1198937248 10256 127.0.0.1 (29 Dec 2007 14:07:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 29 Dec 2007 14:07:28 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e25g2000prg.googlegroups.com; posting-host=97.84.159.244;
posting-account=K8YolwoAAADy0A2iW37gF9k2mykeXqaI
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14934

I did not see the OP as being a heat issue, just a mechanical mounting issue... THough toroids are more self shielding than than non toroids, they are not perfect... Based on my experience with toroids in VFO's

being very close to a metal object does affect the inductance, I would
prefer to see him glue an insulator pad to the heat sink as a spacer
and then glue the toroid to that... IF he was in fact trying to
heatsink the toroid, he has major design problems he needs to solve..

denny / k8do

From -6510853924188845357
X-Google-Thread: fc2a5,df54fc5e5c49dabd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!i3g2000hsf.googlegroups.com!not-for-mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Selecting power Fets for 500 KC transmitter
Date: Sat, 29 Dec 2007 06:15:08 -0800 (PST)
Organization: http://groups.google.com
Lines: 40
Message-ID: <594ec661-4001-4131-869a-fff240c74faa@i3g2000hsf.googlegroups.com>
References: <919e3538-c8aa-466b-8dd2-687d688828fa@s27g2000hsb.googlegroups.com>
<1_Wdncw3UqrjfunanZ2dnUVZ_vWtnZ2d@bright.net> <b53b1dc5-35ce-4230-a6d9-cf940f6bf90b@j64g2000hsj.googlegroups.com>
<UbCdnZrS_dx_E-janZ2dnUVZ_oytnZ2d@bright.net>
NNTP-Posting-Host: 97.84.159.244
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1198937708 28767 127.0.0.1 (29 Dec 2007 14:15:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 29 Dec 2007 14:15:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i3g2000hsf.googlegroups.com; posting-host=97.84.159.244;
posting-account=K8YolwoAAADy0A2iW37gF9k2mykeXqaI
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14935

On Dec 28, 7:03=A0pm, Scott <acepi...@bloomer.net> wrote:
> It is a temporary authorization to specific hams or is it for something
> completely different and it just happens to be a ham who asked the
> original question??
>
> Scott
> N0EDV
>
>
>
>
>
> Denny wrote:

```
> >>--
> >>Scotthttp://corbenflyer.tripod.com/
> >>Gotta Fly or Gonna Die
> >>Building RV-4 (Super Slow Build Version)- Hide quoted text -
>
> >>- Show quoted text -
>
> > There are Part 5 licenses recently issued for a 2 year duration 505 to
> > 515 KC to WD2XSH for 20 watts ERP...
> > I doubt that even 200 watts will get you there with any normal ham
> > antenna...
>
> > denny / k8do
>
> > RV7 - even super SLOWER build....
>
> --
> Scotthttp://corbenflyer.tripod.com/
> Gotta Fly or Gonna Die
> Building RV-4 (Super Slow Build Version)- Hide quoted text -
>
> - Show quoted text -
```

It's temporary (for now) and there are 23 licensees authorized... DO a search on the 500 kc and the call and you should come up with it...

denny

```
From -1755410370477513229
X-Google-Thread: fc2a5,3f3455daa2b54603
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l6g2000prm.googlegroups.com!not-for-
mail
From: Knott One <spaminyourear@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Yeasu Portable Battery Schematics
Date: Sat, 29 Dec 2007 16:14:59 -0800 (PST)
Organization: http://groups.google.com
Lines: 31
Message-ID: <5145323f-7548-4fe7-8b49-cef465793af8@l6g2000prm.googlegroups.com>
NNTP-Posting-Host: 71.38.151.230
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1198973699 6742 127.0.0.1 (30 Dec 2007 00:14:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 30 Dec 2007 00:14:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l6g2000prm.googlegroups.com; posting-host=71.38.151.230;
     posting-account=CBb5hgkAAAAsS0e87Y_7r1voSj9VqCuu
User-Agent: G2/1.0
```

X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14937

Does anyone have/know the wiring configuration of the connections on
Yaseu Portable battery packs?

Specifically I would like to connect an external power source to one
of my portables (FT-51r) and would like to look at a schematic before
making connections incorrectly and cooking my radio.

I also have the following Yaesu portable models FT-411, FT-530, and
suspect the batteries have similar wiring configurations.

I have checked the Internet, Yaesu, and after market battery outfits
with little usable response.

Thank you in advance for any assistance you may be able to provide.

****

I am also looking for the following accessories to allow connecting
external power to my Yaesu Ft 51r Ham radio.

EDC-12 Allows connecting to a cigarette plug in a car or power supply.

FBA-14 Allows operating the radio on four AA batteries.

I would also like to buy a dead battery for the same radio to tear
apart and build my own adapter.

Depending on what you have I might also be interested in other
accessories for my radio.

Thank you.

From -5915872869763224241
X-Google-Thread: fc2a5,df54fc5e5c49dabd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews8.bellsouth.net.POSTED!ef55a73e!
not-for-mail
Message-ID: <4777D629.7010107@bellsouth.net>
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.14pre (X11/20071018)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Selecting power Fets for 500 KC transmitter
References: <919e3538-c8aa-466b-8dd2-687d688828fa@s27g2000hsb.googlegroups.com>
<1_Wdncw3UqrjfunanZ2dnUVZ_vWtnZ2d@bright.net>
<MPcdj.26491$k27.25098@bignews2.bellsouth.net> <RJddj.3423$M24.1404@newsfe17.lga>

```
In-Reply-To: <RJddj.3423$M24.1404@newsfe17.lga>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 18
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mabncmnekmdohbabdbdpiflmbcekedmfhojhikkbagflhcboggllhpekplpochbplllbpipikkjbbjchjc
mldddhhopfedhddadgkklcjammigjeihbbjoldfngcmehnefnfpmippegjedppjfppkahfiolloonl
NNTP-Posting-Date: Sun, 30 Dec 2007 12:32:11 EST
Organization: BellSouth Internet Group
Date: Sun, 30 Dec 2007 17:32:25 +0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:14938

Uncle Peter wrote:
> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
> news:MPcdj.26491$k27.25098@bignews2.bellsouth.net...
>  > Well a friend of mine once wanted to build a mobile transmitter for
>> 455khz AM and 10.7mhz FM so he could tell the bozo in the car ahead of him
>> where to go after he cut him off.....
>
> I hope you clued him in.. (re. 262 kHz...)
>
> Pete
>
>
I'm not too sure, but I think that today's car radios DO use 455khz.
I think they stopped using 262khz some years back when Detroit started
having the radios made in China and got rid of the RF stages.

But, back then I think Mitch knew better.  He never did build that
transmitter, too bad it would have been fun.



From 6226695115148583601
X-Google-Thread: fc2a5,df54fc5e5c49dabd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.acm.uiuc.edu!
news.xcski.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Selecting power Fets  for 500 KC transmitter
Date: 30 Dec 2007 17:51:21 GMT
Organization: The National Capital FreeNet
Lines: 38
Message-ID: <fl8lqp$etf$1@theodyn.ncf.ca>
References: <919e3538-c8aa-466b-8dd2-687d688828fa@s27g2000hsb.googlegroups.com>
<1_Wdncw3UqrjfunanZ2dnUVZ_vWtnZ2d@bright.net>
<MPcdj.26491$k27.25098@bignews2.bellsouth.net> <RJddj.3423$M24.1404@newsfe17.lga>
<4777D629.7010107@bellsouth.net>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
```

```
X-Trace: theodyn.ncf.ca 1199037081 15279 134.117.136.48 (30 Dec 2007 17:51:21 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 30 Dec 2007 17:51:21 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:14939

ken scharf (wa2mzeNOSPAMBOTS@bellsouth.net) writes:
> Uncle Peter wrote:
>> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
>> news:MPcdj.26491$k27.25098@bignews2.bellsouth.net...
>>  > Well a friend of mine once wanted to build a mobile transmitter for
>>> 455khz AM and 10.7mhz FM so he could tell the bozo in the car ahead of him
>>> where to go after he cut him off.....
>>
>> I hope you clued him in.. (re. 262 kHz...)
>>
>> Pete
>>
>>
> I'm not too sure, but I think that today's car radios DO use 455khz.
> I think they stopped using 262khz some years back when Detroit started
> having the radios made in China and got rid of the RF stages.
>
Actually, most of them use 450KHz nowadays.

The synthesizer ICs are designed for 450KHz, presumably because of
some fact that makes it easier to design for that IF, such as it
allows an existing common crystal or something.

I can't think of any car radio I've opened up that had digital tuning
and not a 450KHz IF.

It's not so absolute in other types of radios, but it is still a common
IF (which can be a real bother if you've got a shortwave receiver
and thus can't improve selectivity with a good and relatively cheap
used 455KHz mechanical filter).

262KHz IFs in car radios did pretty much disappear with the coming of ceramic
filters.  And no car radio is being made without ceramic filters.  Though,
I think I did see one car radio, it must have had analog tuning, that did
have a 262KHz ceramic filter.

  Michael




From 9020591632760582466
X-Google-Thread: fc2a5,10c5763b449ad447
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 30 Dec 2007 19:54:19 -0600
```

```
From: "Jim" <kill-spam@no-spam.org>
Newsgroups: rec.radio.amateur.homebrew
References: <ea5a7551-574b-4688-8ec8-742fccb7397a@x29g2000prg.googlegroups.com>
<9635aba7-04bb-45d5-bda7-cec40b8271fd@e10g2000prf.googlegroups.com>
Subject: Re: Mounting Toriods
Date: Sun, 30 Dec 2007 17:54:18 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 071230-0, 12/30/2007), Outbound message
X-Antivirus-Status: Clean
Message-ID: <q_mdnXrqt-BW1uXanZ2dnUVZ_j2dnZ2d@comcast.com>
Lines: 33
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.181.200.74
X-Trace: sv3-RLcLtXHpUb/Cp0sc701Ka5WiGVuUfYO9Fco8rvAj2QR6S0zemi7y9l2QeV/
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QtJPUzUspnIMR55idCQF9cvf+y9m7KuL2Iq3IrXALm0xWzecoa2ZxyhbeGgFgv5gdXOAexIAYXAG!
jk+4TkjGMdmM8+8nw+zrSLVS7kO5Dg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:14940
```

On Dec 27, 8:57 pm, WA4...@gmail.com wrote:

> Greetings!!!
>
> Can a Toriod   transformer be Glued to a heat sink???   The Toriod
> will be JB welded to the heat sink.
>
> The toroid will be wound with a 30 degree gap between the start of
> the winding to the end of the windings   the toroid will (winding
> gap) be glued at that that point vertical position   the windings
> will be about 1/4 inch above the heat sink.
>
> Comments???
>
> Thanks!!!

I certainly would prefer to use RTV since that allows for different temperature expansion between the toroid and the mounting surface.   Toroids are rather brittle and need some amount of flex in the way they are mounted.

Jim Pennell
N6BIU

--

17:56 Pacific Time Zone
Dec 30 2007

International Time
01:56 UTC
31.12.2007

```
From -3877354996152846151
X-Google-Thread: fa1dc,81f992514592bc4c,start
X-Google-Thread: fc2a5,81f992514592bc4c,start
X-Google-Thread: fe6d9,81f992514592bc4c,start
X-Google-Thread: 104f7a,81f992514592bc4c,start
X-Google-Thread: 10dde4,81f992514592bc4c,start
X-Google-Attributes: gidfa1dc,gidfc2a5,gidfe6d9,gid104f7a,gid10dde4,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <ni0711310827268590@4ax.com>
Subject: M.I'5.Persecution  . Molest ation d uring Travel
Newsgroups:
alt.conspiracy.antichrist,rec.radio.amateur.homebrew,hr.org.fer,sfnet.tiede.matema
tiikka,microsoft.public.it.winserver
Followup-To:
alt.conspiracy.antichrist,rec.radio.amateur.homebrew,hr.org.fer,sfnet.tiede.matema
tiikka,microsoft.public.it.winserver,uk.misc
From: eivmefe@hotmail.com
Date: 31 Dec 2007 08:27:29 GMT
Lines: 295
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 292
Xref: g2news1.google.com alt.conspiracy.antichrist:2871
rec.radio.amateur.homebrew:14941 hr.org.fer:141115 sfnet.tiede.matematiikka:4167
microsoft.public.it.winserver:77432
```

MI5. Persecution: Molestation during Travel

MI5s persecution of me varies in intensity. Since 1990 it. has been steady for perhaps 80% of the time; there was a notable quiet period in. 1993, and another quiet period in Jan-Feb 1995, as well as a hiatus in. the first two months of 1999. It puzzles. me that they cease and restart, seemingly without any. logic or reason. But one aspect of MI5s activities against me which is relatively predictable is this weeks. articles topic, which is Molestation during. Travel. Almost every time I cross the Atlantic, go to the Continent or even try to enjoy a holiday. in this country, you can bet that MI5 will be there doing their. utmost to wreck it all.

This aspect of the harassment is. particularly relevant as I will be travelling to Europe again in a. months time, with naturally the Minidisc recorder in tow; so it will be interesting to see if. I can record the abuse which. will almost certainly take place, either on the Tube going to the airport, at the airport, on. the flight, in the terminal building - MI5 have previously instituted instances. of abuse at each of these locations, so well see how much taxpayers money they waste. this time, and whether it will prove. possible to capture their abuse on minidisc.

Read about the MI5 Persecution on. the Web

June 1992 in Polands mountain resort. of Zakopane

The persecution started. in June 1990, and for the first two years I stayed in the UK apart from a couple of brief day trips to Calais. By the. summer of 1992 Id had enough of being cooped up in England with. abusive fellow employees egged on by an abusive secret police service, and. decided to spend 10 days in southern Poland, on what was intended to be a. holiday at the mountain. resort town of Zakopane.

Unfortunately. the psychopaths of the Security Service were not willing to allow. me to enjoy a holiday in peace and quiet. The journey to Zakopane was by coach from the meeting point at Londons Victoria coach. station (National Express) followed by ferry. followed by another coach across Europe. As we. left Victoria a youth and his girlfriend started a loud tirade of abuse directed at "this bloke", where the "bloke" was. never named,. but it was very clear that the "bloke" was myself. The youth said "they" had "found somebody from his school, and. he was always really stressed at school, a real psycho". Again, the. label "they" was not elaborated on, but it was. clear that "they" = the persecutors from MI5. The boy also said, "he was in a bed and breakfast for only one. night and they got him". By a not unexpected. coincidence I had been in a B&B in Oxford a week previously, which had been booked. from work; other things lead me to the. conclusion that the company's offices were bugged for most of. the 2 1/2 years that I was there, so "they" would have known a room in the B&B had been booked. After a few minutes of this I went back. to where they were sitting and asked where they were travelling. The boy. named a village in France, and the girl's giggling suddenly. ceased; presumably it permeated. to her brain cell what the purpose of the boy's abuse was.

It is now very. clear to me that MI5 were trying to have me incarcerated, assaulted or killed on this trip across Europe. The degree. of verbal violence inescapably leads to. this conclusion. When we arrived at our destination, it became clear that. many people, both in our tour group and its guide, and. among the ordinary residents of the town, knew there was a movement under way to "get". me. MI5 employed many people and significant resources for an action which they knew would only take a maximum of. ten days. A commercial operation would never have felt able to waste. such resources on such an unproductive. and temporary action; only a state-sponsored, taxpayer-funded entity. like the Security Service would be able to be so. wasteful.

To give some examples of what happened in those ten days;. I was walking in some woods outside the town, when a Polish. woman, looking at me, said the English "shit" in. a strongly Polish-accented voice. For the first three years 1990-92 MI5 had been trying to force this word on me.. Another example; I. was walking near my "hotel" when a mother said laughing to her child,. "a wiesz ze to prawdziwy wariat" which means "you know hes a real madman". And the. "TV reacting" happened there too; on Polish TV, a bemused looking journalist said to another, "to jest sprawa Anglikow", which. means "its the concern of the. English", in other words, none of our business, despite what the English are trying. to force down our throats.

Just before we left. for home, I went with some others from our group to a nearby. bar. There a man shouted at me the same sexual obscenity which MI5 have constantly thrown at me these last three years. I think MI5 try. to justify their various terms of abuse by repeating them at. me until I say them, either while. conscious or while talking in my sleep; and then they seize on my saying those words to "prove". that the obscenities are "my fault", et cetera. This rather stupid reasoning of. theirs can actually be seen as indicative of the psychopathic condition. attributed to them in a previous article; blaming. the victim for the crime you inflict on him is how psychopaths. think.

Nor. did the persecutors let up during the return trip. Returning on the ferry over. the channel, a rather insalubrious-looking guy talked to his mates about "and you know this bloke,. hes really mad you know, hes really mad". On the National Express return coach. to London, a group of five or six. young people started shouting at me. I slumped in my seat and tried to avoid presenting a target, so they got ever more strident. - "whats the matter. with you, cant you hear us?" One of the other people who had been on the trip to Poland asked them why they were shouting at. me, and they said, "hes been to Cambridge", to which the. co-holidayer asked them, "have you been to Cambridge?" presumably thinking they were. aggrieved fellow students, but they. answered "no". Even after I left the coach at Elephant and Castle abuse continued;. in the tube station, two kids started throwing abuse at me; one of them said to the. other, "and you know he works?" to which the. other answered "yes".

Immediate Aftermath of. November 1992

As you will know. from previous articles, my manager at OCG - ARIS/Oxford, Mr Mitchell, induced a mental breakdown in me in the months. leading up to Nov/92. The diagnosis was regarded by the persecutors as a victory. for them,. because few if any people give credence to allegations of harassment when they are made. by somebody suffering from schizophrenia. There is also a bias against the mentally ill, an. "institutionalised bigotry" in society comparable to. the institutionalised racism against blacks.

However, MI5 did not let up on. persecuting me following Nov/92. In December 1992 I flew by. charter jet to Alicante in Spain for two weeks recuperation.. MI5 planted one of their people on the flight, a youth who tried to. start some noises that "hes a nutter". One of the other passengers replied, "oh hes a nutter is he? oh well!". and the youth shut up and said nothing for the rest of the flight. I think it would be. fair to say that the youth on the flight was embarrassed by what he. had been asked to do in making the flight "uncomfortable". for me; he sounded defensive. rather than aggressive.

My first. trip to Canada in June 1993

Ive already covered. this in a previous article so Ill just give a brief summary here. On 10 June 1993. I flew British Airways from Heathrow to Torontos Pearson Airport. On de-planing from the. aircraft, one of a group of four fellow passengers. looked at me and said, laughing, "if he tries to run. away well find him". It was quite obvious that these four men were the ones. who had been harassing me since 1990.

I did nothing to apprehend them or bring this incident to. the attention of the airport authorities, mostly because this was my very. first visit to Canada, and the last thing I wanted was to get into. a dispute before I had even finished disembarking. In retrospect,. I can see this was a terrible mistake; I should have made. every effort to detain and identify these people.

Subsequently I have made numerous. attempts to obtain the names of these people from. British Airways passenger lists, by talking to BA, through a lawyer in Ontario, through a. solicitor in England, through the UK police, and also through private detectives in the UK. But all my. efforts have come to. nothing. BA have told me they keep passenger lists for a period of seven years, so they will still have. the list for this 1993 flight. I did not see or hear anything during the rest. of my visit to Ontario in 1993 which would have lead me to believe that I was being. watched or followed.

Journey across Canada. in summer 1994

As I think Ive already said in previous articles I. emigrated to Canada in late May 1994. For six weeks between late May 1994 and early July 1994. I travelled across Canada from coast to coast, starting in. Toronto, visiting various cities and ending up in British Columbia.. I saw this both as something of a holiday, and the chance to get. to know a little better my adopted. country.

As you can guess, MI5 followed me everywhere I went during. these six weeks. In Toronto, where I. started this trip in late May, I was spoken about by one. youth to another with the words "hes an idiot", to which the other. replied, laughing sympathetically, "good luck to him".

A couple of. days later I went to Montreal and stayed at the YMCA downtown. As you can guess (this is all. so predictable, isnt it?) MI5 followed me there and bugged my room at the YMCA. Not. only that, but they managed to set-up an instance of "newscaster reaction". from a local television station; while I was watching a Vermont TV news. programme on the set in my room, the. woman reporter said, "well theyre just tired and they want to go home",. which sounds like a pretty unprofessional thing to say until. you realise she was trying to say of me that I was the one that was supposed to be tired, and they (ie MI5) wanted. me to go home to the UK.

On the bus journey. across the North American continent, it was quite clear that MI5 were following me every step on the way. For the first. part of the journey they actually put someone on the bus with. me, a youth who said at me "that guys paranoid" and tried to incite other passengers. to attack me. I stopped for. a couple of days in Winnipeg in central Canada, and on leaving the town heard on. the radio a female presenter ranting about "insanity! insanity!". It is. very tiring travelling such a long distance by bus; I took the journey in two steps, each of about 36 hours; and. it is especially tiring when. you know MI5 are watching you and harassing you every. step of the way.

When I finally got to. Vancouver, MI5 instituted the usual harassment, in very short order. I was surprised how. quickly they were able to induce hatred towards me in elements of the general. populace; the Security Service must have employed a. number of agents and serious resources in a very short period of time; and for no real. gain, because I havent been back to BC for almost. five years, so all their "work" appears to be for nothing. In downtown Vancouver a street person said in. front of me, "theyre all talking about him". For a few days I was staying. at Pauls Guest House (345 W.14th Ave); on. the day I left, the owner Paul shouted at no-one in particular, "hes. going to Victoria" - which was quite accurate, I was. indeed going to the provincial capital Victoria on Vancouver Island. But I had not told anyone at. the guest house where I was going; I had only. mentioned to my parents back in England on the phone that I was going away from Vancouver for a few days.. Which leads me to suppose that MI5s bugging of the phone in my parents. house yielded the "intelligence" that I intended to visit Victoria, and they. had passed the information on. to Paul.

When I got to Victoria it was again obvious that the. persecutors were "doing their stuff" there as well. On. the street I was identified as being English,. although I had not said anything so my accent hadnt given me away; and returning by ferry to the mainland, I was abused. by a Canadian woman who said,. "hes a nutter! you can run but you cant hide". During my years in Canada I. have never heard the word "nutter" on any other occasion;. I do not think it is part of Canadians vocabulary; so the Canadian woman. on the ferry, who was obviously talking about me, must have been supplied with. this word by the English persecutors. And once I got back to Vancouver, staying at the Austin Hotel on Granville St, I. listened to a conversation in the apartment block directly opposite,. and a man saying, "hes paranoid, so thats as bad as. it can be, so why are they doing this. to him?".

Holiday in the. States, August 1995

By 1995 I was living. in Canada, and in August I went down the eastern seaboard to Florida and as far as Key West by car. As you can. guess (this is all so boring and predictable, isnt it?) MI5 followed me every step. of the way. I can see in retrospect that this must. have been quite easy for them. as they had my car bugged, both on the inside to listen to anything that was said and what radio station I was listening to, as well as. what must have been a tracker device installed to track it. across long distances.

The first city I visited was Philadelphia. In the old Congress Hall. where the first US Congress assembled, the woman guide. started referring to my situation, saying that "all these people in Europe were watching. it", and they. were "a little paranoid" at this 18th-century experiment in democracy.. Also I had recently written a newsgroup post where Id described a (female) poster as "wet-nosed" (implying "canine"), and a young girl. in Philadelphia remarked, "so he. thinks were dogs?" There were two or three more incidents during this holiday in the. eastern States, including a radio station down near. Miami, showing "they" had tracked me all the way there, and were bugging the inside of my car;. but I didnt record the details and Ive forgotten. some of it now. Also down in Miami Beach a French tourist in. a lift expressed support for me with the words, "cest incroyable" ie. its incredible,. meaning that MI5s well-known actions against. me were beyond belief.

To go. back a bit, in about May/June 1995 Id visited New York, again by car, and was insulted several times by. people using the same words that had been used against me in England. In. Central Park, and elderly Englishman (not a real gentleman. - but then the Engish view of themselves as "gentlemen" etc is quite laughable). looked at me and said "idiot". And while I was. eating in a streetside restaurant a New York youth started laughing and said something like, "I cant believe it, hes actually here". - I think that was because I had had an expressed. wish to visit New York for some years. before this, although after this visit I wont be going there again for a. very long time.

Visit to Poland. December 1995/January 1996

In December 1995 I flew. (BA again, unfortunately - every time Ive flown BA one. of these incidents has happened, presumably MI5 is happier setting up harassment on British-domiciled. carrier) from Montreal to Berlin and travelled on to Poland to visit family. MI5 naturally harassed me. in Poland during my brief stay.. They followed me around and got Polish people to. take part in the harassment. In one case two Polish youths talked in front of me saying in English (with marked Polish accents),. "fucked up men, fuck you". There were also other incidents. which I dont remember too clearly since it was some. time ago.

The return flight connected through Heathrow, and in the transit. lounge MI5 again set-up harassment against me. In. Poland they were talking their abuse in English, and. in London they set Polish people after me to speak in Polish; they heard me on. the phone to my father, and said "a wiesz ze to Polski. wariat", in an almost sympathetic, inclusive fashion (translation. "you know hes a Polish nutter").. Once on the flight to Montreal I. was again set upon by two English youths, one of whom spoke and the other listened. The aggressive "fat bastard" youth said, "if he. wants to be a wanker" (its my fault theyre harassing. me, you see), self-justification that "hes a nutter" (so we. have to keep on abusing him, because hes ill), as. well as talking about the town in Poland where I had been staying.. He also said, "he doesnt know who we are", but as already remarked in a previous article,. that was at best a half-denial of my guess expressed in internet. newsgroups that the people after me were MI5 - if anything its a half-confirmation rather. than a half-denial.

These incidents are still going on. You can hear. digitised audio files of abuse on a BA flight to Berlin in 1998. on the Web at address

On this flight they were. again attacking my mental health; "paranoid, hes paranoid" and. "nutter" are discernable. The last "during travel" contact was at Ottawa. Airport on 21 July 1998, when "Alan Holdsworth" the psychopath MI5 agent, dressed as a vagrant, was pacing aggressively in. the departure area. In three weeks I will. again be travelling to Europe; we will see what fresh acts of molestation MI5 perpetrate. during this trip.

640

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDem

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From 5885734831241008092
X-Google-Thread: fa1dc,cf9055cfc52b229b,start
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X-Google-Thread: 10dde4,cf9055cfc52b229b,start
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Xref: g2news1.google.com alt.conspiracy.antichrist:2872
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microsoft.public.it.winserver:77434
```

MI5 are. Afraid to Admit They're Behind the Persecution

MI5 have issued a formal denial of. any involvement in my life to the Security Service Tribunal, as you might. expect them to; but, more importantly, the persecutors have. never denied that theyre from the Security Service, despite several years of. accusations from my corner on usenet and in. faxed articles. I am not surprised that the Security Service Tribunal found "no determination in your favour".. I am however a little surprised that the persecutors have refused to confirm my. identification of them; by doing so, they. implicitly admit that my guess was right.

"No determination. in your favour" says the Security Service Tribunal

In 1997, I made a complaint to the. Security Service Tribunal, giving only the. bare outlines of my case. I do not think it would have made very much difference if Id. made a much more detailed complaint, since the Tribunal has no ability to perform investigatory functions.. It can only ask MI5 if they. have an interest in a subject, to which MI5 are of course free to be "economical with the truth". A couple of months after my. complaint the Tribunal replied. that;

The Security Service Tribunal have now. investigated your complaint and have. asked me to inform you that no determination in your favour has been made on. your complaint.

Needless to say this reply. didnt surprise me in the slightest. It is a well established fact that the. secret service are a den of liars and the Tribunal a toothless watchdog,. so to see them conforming to these stereotypes. might be disappointing but unsurprising.

It is noteworthy that the Tribunal never gives. the plaintiff information on whether the "no determination in your. favour" is because MI5 claims to have no interest in him, or whether they claim their. interest is "justified". In the 1997 report of the Security Service. Commissioner he writes that "The ambiguity of the. terms in which the notification of the Tribunals decision is expressed is intentional", since. a less ambiguous answer would. indicate to the plaintiff whether he were indeed under MI5 surveillance.. But I note that the ambiguity also allows MI5 to get away with lying to the question of their interest. in me; they can claim to the Tribunal that they have no interest, but at. a future date, when it becomes clear that they did. indeed place me under surveillance and harassment, they can claim their interest was "justified" - and the. Tribunal will presumably not. admit that in their previous reply MI5 claimed to have no interest.

"He doesnt know. who we are"

In early January 1996 I flew on a British Airways jet from London. to Montreal; also present on the plane, about three or. four rows behind me, were two young men, one of them fat and voluble, the other silent. It. was quite clear that these two. had been planted on the aircraft to "wind me up". The fat youth described the town in Poland where I had. spent Christmas, and made some. unpleasant personal slurs against me. Most interestingly, he said the words, "he. doesnt know who we are".

Now I find this particular form of words very. interesting, because while it is not a clear admission, it is. only a half-hearted attempt at denial of my guess. that "they" = "MI5". Had my guess been wrong, the fat youth would surely have said so more clearly. What he was trying to do was. to half-deny something he. knew to be true, and he was limited to making statements which he knew to be not false; so he made a lukewarm. denial which on the. face of it means nothing, but in fact acts as a confirmation of my guess of. who "they" are.

On one of the other occasions when. I saw the persecutors in person, on the BA flight to Toronto in June. 1993, one of the group of four men said, "if he tries to run away. well find him". But the other three stayed totally quiet and avoided eye contact. They. did so to avoid being apprehended and identified. - since if they were identified, their employers would have been revealed, and it would become known that. it was the secret services who. were behind the persecution.

Why are MI5 So Afraid to. admit their involvement?

If you think about it, what. has been going on in Britain for the last nine years is. simply beyond belief. The British declare themselves to be "decent" by. definition, so when they engage in indecent activities such as the persecution. of a mentally ill person, their decency "because were British" is still in the forefront of. their minds, and a process of mental doublethink kicks in, where. their antisocial and indecent activities are blamed on the. victim "because its his fault were persecuting him", and their self-regard and self-image of decency. remains untarnished. As remarked in another article some time ago, this process is basically. the same as a large number of Germans employed fifty years ago against. Slavic "untermenschen". and the Jewish "threat" - the Germans declared, "Germans are known to be decent and the minorities are. at fault for what we do to them" - so they. were able to retain the view of themselves as being "decent".

Now suppose. this entire episode had happened in some other country. The British. have a poor view of the French, so lets say it had all happened in France. Suppose. there was a Frenchman, of non-French extraction, who was targeted by the French internal. security apparatus, for the dubious amusement of French television. newscasters, and tortured for 9 years with various sexual and. other verbal abuse and taunts of "suicide". Suppose this all came out into the open. Naturally, the French. authorities would try hard to place the blame on. their victim - and in their own country, through the same state-controlled media which the authorities employ. as instruments of torture, their view might prevail - but. what on earth would people overseas. make of their actions? Where would their "decency" be then?

This is why MI5 are so afraid to admit theyre behind. the persecution. Because if they did admit responsibility, then they would. be admitting that there was an action against me - and if. the truth came out, then the walls would come tumbling. down. And if the persecutors were to admit. they were from MI5, then you can be sure I would report the fact; and the persecutors support would fall away,. among the mass media as well. as among the general public. When I started identifying MI5 as the persecutors in 1995 and 1996 there was a. sharp reduction in media harassment, since people read my internet. newsgroup posts and knew I was telling the. truth. The persecutors cannot deny my claim that theyre MI5, because then I. would report their denial and they would be seen as liars - but they cannot admit. it either, as that would puncture their campaign against me. So they are forced to. maintain a ridiculous silence on the issue of their identity, in the. face of vociferous accusations on internet newsgroups. and faxed articles.

Have MI5 lied to the Home. Secretary?

In. order for the Security Services to bug my home, they would either have needed a warrant from the Home Secretary, or they might. have instituted the bugging without a warrant.. Personally I think it is more likely that they didnt apply for a warrant - I cannot see any Home Secretary. giving MI5 authority to bug a residence to. allow television newscasters to satisfy their rather voyeuristic needs vis-a-vis one of. their audience. But it is. possible that the Security Service presented a warrant in some. form before a home secretary at some point in the last nine years, for telephone tapping or surveillance of my. residence, or interception of postal. service.

So the possibility presents itself that a. Home Secretary might have signed a warrant presented to. him based on MI5 lies. Just as MI5 lie to the Security Service Tribunal, so they might have lied. to a Home Secretray himself. MI5 and MI6 are naturally secretive services. former home secretary Roy Jenkins said, they. have a "secretive atmosphere ... secretive. vis-a-vis the government as well as [enemies]". Jenkins also said he "did not form a very high regard for how. they discharged their. duties".

It. was only a few years ago that MI5 was brought into any sot the extraordinary thing is. that British media organisations like the state- and taxpayer-funded BBC take such. an active part in the MI5-inspired campaign of harassment. We have after all heard. of MI5 trying to bribe broadcast journalists; but surely there. must be a substantial number who are not. bought or blackmailed by the Security Services, and who take part in the "abuse by newscasters" of their. own volition? The BBC is supposed to be independent of the government of the day as well as. the Establishment in general. While perhaps it is childish to think that. the BBC is anything. other than effectively state-controlled, the degree of collusion. between the BBC and the British Secret Police MI5 is something you would not find. in many countries. Individual tele-journalists in other countries. would have enough self-esteem not to allow themselves to be controlled by their secret police. - seemingly, BBC broadcasters like Martyn Lewis and Nicholas Witchell have such a low. opinion of their employing organisation that they see no wrong in dragging the. BBCs no-longer-good name through yet more mud, at the mere. request (whether supported by financial or other inducements) of the. British secret Police, MI5.

And when challenged, these. broadcasters LIE about their involvement, with just as little shame as MI5 themselves. The BBCs Information. dept have said. that;

"I can assure you that the. BBC would never engage in any form of surveillance. activity such as you describe"

which is an out-and-out. lie. Buerk and Lewis have themselves lied to their colleagues. in the BBCs Information department over the "newscaster watching", but unsurprisingly they refuse to. put these denials in writing. Doubtless if the "newscaster. watching" ever comes to light, Buerk and Lewis. will then continue to lie by lying about these denials. So much for the "impartial" BBC, a nest of liars bought and paid. for by the Security. Services!

It is obvious. that the persecution is at the instigation of MI5 themselves - they have read my post, and only they have the surveillance. technology and media/political access. Yet they. have lied outright to the Security Service Tribunal.. Similarly, BBC newscasters Michael Buerk and Martyn Lewis have lied. to members of their own organisation. The continuing harassment indicates they are. all petrified of this business coming out into. the open. I will continue to do everything possible to ensure that their. wrongdoing is exposed.

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MI5 Persecution Update: Friday 11 June,. 1999

Harassment. in a pub in Clapham, Tuesday lunchtime

Once a month, or once every other month, I meet a Polish. friends of mine who lives in Clapham North, and sometimes we go. to a particular pub near where he lives. The last time was some two months ago; I did not have. my minidisc-walkman with me,. and consequently was seriously harassed by people MI5 had instructed to harass. me, in the pub.

This Tuesday, 8 June 1999, we again went to. the same pub for a pre-meal drink. This time I did. have my minidisc-walkman with me. As you can guess, we were followed. into the pub by a couple of young people (Im getting older and older - isnt it funny how the MI5. agents all look young these days?). They started talking about my situation, in particular. some travel I had booked the previous day. Unfortunately, they were talking. fairly quietly, and my. minidisc didnt pick up their speech.

MI5s. schizophrenic reasoning is that simultaneously I am very important and worthy of their acts. of persecution, and I am also totally unimportant and their abuse of me "doesnt matter". Perhaps they. should test their agents and managers for obsessive personalities or. psychotic features in the same way as. employees are drug-tested. MI5 might lose their "worst cases" employees if. some psychological testing were applied to their recruitment. procedure.

Toothless Watchdogs. What. a Surprise.

Recently I have been. engaging in communications with two watchdogs, the Security Service Tribunal which deals with complaints against the. security service (and always clears MI5 of any wrongdoing), and the. Data Protection Registrar, which is. mandated to investigate misuse of personal data held on. computer.

In a letter to. Nick Brooks, Security Service Tribunal secretary, dated 20 April, I asked him if the Tribunal, as an allegedly. independent body, had the means to investigate complaints against. MI5 other than asking MI5 to themselves investigate complaints. To. my disappointment, his reply two weeks. later answered the question only indirectly, in the negative. Whatever. the reader might think of the merits of the case I have been putting before you in faxed articles. this last year and half, you will surely recognise that it is a significant. anomaly for the Tribunal to have no independent means of. investigating complaints, particularly given the view expressed even by previous home secretaries that the. security services. are untrustworthy.

MI5 Persecution: No Justice. for the Victims of MI5

In a previous article I detailed the similarities between the current. MI5 Persecution in. England, and other historical instances of similar persecution, notably that. by the Nazi Germans in the thirties and forties. The Germans persecuted. first the mentally ill, the epileptics and those suffering from. schizophrenia, then moved on to racial groups; in todays Britain the persecution is again directed at those with. mental illness, which the British in. their cowardice find easier than taking on racial groups as the Germans did. But just as in Thirties Germany. there was no recourse against a. malign and omnipotent state, so the MI5 Secret Police in the modern British Fascist State. allow no justice for their victims.

No Recourse Against the Security Services Illegal. Harassment

It has become apparent to me over the last nine years just how loaded. the dice. are in todays Britain, a fundamentally fascist country which masquerades as a democracy. Britain is a. democracy in name only; the Establishment, the defence and MI5. secret police are always there, regardless of which party has been voted into power most recently -. and from. "New Labours" conduct in office one finds it difficult to tell them apart from Old Tories, in their crackdowns on the sick. and vulnerable in society.

In thirties Germany the victims of the. Nazi regime had no legal recourse against their. State oppressors; and in todays Fascist British state, the victims of the Establishment and its MI5 Secret Police similarly have. no recourse against the illegal state-funded and. organised oppression. There is. supposed to be a mechanism for dealing with MI5 crimes, in the shape of the Security Service Tribunal and Commissioner; yet these have never. found favour of a. plaintiff. One might as well ask the Nazi SS to investigate crimes against epileptics. or Jews as ask the Security Service Tribunal to investigate MI5 crimes. against British citizens; it is quite obvious what the answer is going. to be, regardless of what you say to them, and what evidence you provide. The Tribunal. and Commissioner are a mere formality, a whitewashing body to give. the Secret Services a veneer beneath which they hide their. shabby criminality.

"Institutional Racism". and Bigotry in the Metropolitan Police

The recent inquiry. into the racist murder of Stephen Lawrence found clear evidence of systematic and deliberate racism in the. Metropolitan Police, which cannot have. surprised anyone. Commissioner Sir Paul Condon accepted a somewhat lukewarm definition of institutional racism as. being "unconscious". In truth, and. this truth must surely be obvious to anyone who has any familiarity or encountered the great British police, the. Met has not just "unconscious" racism, but very clearly. "conscious" and deliberate racism, of the kind that would have done Thirties. Germans proud. And it is a bastion of such open racism - when many. other parts of society are. learning to live in a multicultural environment, the Met is still living in the past. in its attitude to the minorities.

But in addition to. the systematic racism confirmed by the Lawrence inquiry, there is also something much more relevant to. this case, which is systematic police bigotry against the physically. and mentally disabled, which. I personally have experienced in my dealings with the police over the years. You cannot expect equal treatment if. you are mentally disabled.. I tried to make a complaint to the police in 1995 about the harassment I had been subjected to. for several years. As soon as they found. out I had mental illness, they refused to even talk to me. I tried again in March 1999; the police made various threats to me, while. ranting about "your paranoid rubbish" in reference to the complaints. expressed to them.

The police refusal to. do the job they are employed and paid to do is extremely serious,. particularly as this case is highly important, indeed key to the whole issue of British self-perception at. the end of the 20th century. and the beginning of the 21st century. Britain has lost much in the last fifty years - it has lost. an empire, it has lost its self-respect and its identity as a people.. If the MI5 persecution finally makes it into the light and the Security Services are seen for the rather cheap. bullies their behaviour indicates, it will have a massive and harmful. effect on British self-perception in the. new century.

Security Service Tribunal. - Blatant Whitewashing

A few. weeks ago I spoke on the phone to Nick Brooks, the Secretary of the Security Service. Tribunal, which is supposed to deal with cases of MI5 transgression. I asked him if the Tribunal had. ever found in favour of a plaintiff and against the Security Service. He answered that as far. as he knew,. it had not.

I. also asked Mr Brooks if the Tribunal had any means of investigating allegations of criminal activity by MI5, other than asking MI5. themselves if they had engaged. in such activity. His rather circuitous written reply states that the 1989 Security Service Act provides. that "it shall be the duty of every member. of the Service to disclose or give to the Tribunal such documents or information as. they may require for the purpose of enabling them to carry out their functions under this Act". Which. is a very round-about way of saying - "No" - the Tribunal. has no way of investigating MI5 crimes - None. At All.

Setting up the S.S. Tribunal, and. creating a Security Service Commissioner, was really an act of falsehood by the. government. It is generally recognised that MI5 are. out of reach of the normal criminal justice system - the police, as we have seen,. have no intesot answer to the government; in a previous article. I quoted Roy Jenkins speaking of "a secretive atmosphere.... secretive vis-a-vis the government as. well as [enemies]", and a "lack. of frankness" from MI5.

If the government wanted to, it could. reform the secret services and ensure they acted in conformance with the laws which have. been enacted for them in the last ten years. But apparently the present government. does not see any need to. ensure security service compliance with the law. As noted above, the regulatory. machinery for MI5 is deliberately weak; the Tribunal has no independent means of investigation,. and it is simply a waste of time complaining to the Tribunal. or Commissioner.

Every so often, fresh revelations come to light of secret. service transgressions.. We have heard from Shayler that MI5 bugged Jack Straw and Peter Mandelson; we have heard from Peter Wright that MI5. plotted to see Wilson ejected from office; yet so closed. is the system of government that the law is never. enforced against MI5 when they "bug and burgle" everyone from. politicians to ordinary citizens.

No Justice from the Legal System,. either

Britain has a. civil and criminal justice system which effectively limits many complaints from being heard.. For a civil complaint to be brought before a court, you need a solicitor willing to act. on your behalf. Supposedly it is. possible to represent yourself as a Litigant-in-Pthe basis of. being "frivolous and vexatious" or "disclosing no cause. for action in law". This is exactly what happened to me in 1997 when I twice tried to take the BBC to. court for spying on me in my living room at home; my case was twice struck out, and on the second occasion. an order was made. against me that I could not bring further civil litigation against the BBC without leave of. the court.

As the reader can guess. it is quite impossible for a person with schizophrenia, who complains about the secret. services and media interfering in his. life, to find a solicitor willing to represent him in legal action against the. persecutors. I have quite a lot of evidence of the. continuing persecution which I have posted on the website, even if the evidence is. quite tentative and perhaps open to varying interpretations.. But I have tried several firms of solicitors; some of them have acted unprofessionally. and abused me; all of them have refused to represent me. My. psychiatrist gave me the name of the firm of Bindman and Partners in central London, and I have approached them. twice. On each occasion they refused to accept my instructions.. Plainly the problem with Bindmans, which. they have admitted, is their bigotry against mentally disabled people; yet this. is not just something that is wrong with Bindmans, it is. something that is wrong with the legal system as a whole, since the legal system necessitates finding a. solicitor willing to represent you. in order to bring a case to court, but it does not have a mechanism. for providing a lawyer in the case where no solicitor is willing to take. on your case. So the British legal system is such as to prevent cases such as mine from ever. receiving an airing in a court.

So much for the civil courts. But the. criminal justice system is no better. Two years ago the Protection from. Harassment Act came into force. But again, while the Act. is all very well on paper, in practice it is unenforceable in. my case, since it would require Police action to see the. law implemented, and if the police cannot even be trusted to conduct a murder investigation competently (in. the Lawrence case), then what chance is there of their investigating complaints. against the Security

Service? Of course, it would be possible for me. to personally issue proceedings through a private. prosecution either against MI5 themselves, or against one or more of their media tools; but here. we see the same problems as with the civil courts, because first of all. I would have to find a lawyer willing to act on my behalf. Litigants-in-person do. exist in the criminal. courts, but the Attorney General can bring such a prosecution to an end by taking it over and entering. a plea of "nolle prossequi"; and I. suspect that if I were to bring a private prosecution against either MI5 or one of their media tools, then this is exactly what. would happen.

So much for British justice. But if anything. the wrongs that have been perpetrated. on me by the British justice system are quite mild to what others have suffered. Others have been. wrongly convicted based on police evasions and lies, and. spent many years in jail based on false charges. I should count myself lucky that despite the best. efforts of the MI5 secret police, I have not acquired any criminal. charges or convictions; which shows that. for all their resources and influence, and the clear imperfections in. the British legal system, there are still limits on how much subversion MI5 can. achieve.

The latest in a long line of. injustices

A comment I heard during the. recent scandal of the police mishandling of the Lawrence murder investigation is that "its. not as if the police themselves murdered him". This is not a particularly wise statement. to make about the case, since it could be argued. that the four alleged murderers. were aided in their crime by the expectation that the police would deliberately botch the investigation - which of course. is exactly what. the police did.

But in my case, this. would be a completely inaccurate thing to say - since the MI5 secret-police have expressly been. trying to nine years now to see an end put to. my life, either by having me incarcerated and my liberty ended, or by forcing self-termination on me. It. is exactly as if the secret police "themselves murdered [me]",. since that is what their aim is in their. campaign against me.

The public has heard of instances of. police mishandling of cases, of police manufacturing evidence, lying in court,. extracting false confessions to clear up crimes, et cetera.. Various instances of extra-legal activity by the secret services have also come to. light in the last few years. The unhappy. truth is that what MI5 have been doing to me for the last nine years is really nothing out of. the ordinary for them. To me it seems. unbelievable that this sort of systematic campaign of harassment, which thousands and. thousands of people in this country and abroad are well aware of, could exist for such a long period of. time with the media maintaining "omerta". But my case is not the first such. instance of persecution by the "British. secret police", and judging by the lack of any real controls on MI5, I very much doubt it will be. the last.

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MI5 Have Systematically. Destroyed My Life

This is getting depressing. From the feedback Ive. received, the recipients of these faxes. are tired of hearing my complaints, and in truth I am tired of sending them.. The reason I havent yet ceased sending faxes is because I cannot think of any other effective means. of replying to MI5s actions against me, and I feel I have to. do something to try to defend myself. Three/four years ago I got the MI5 harassment out of. my system by posting about it on Internet newsgroups, and for a few. months this tactic was quite effective - I received (and. indeed still do today) support from newsgroup. regulars, and felt I could make my voice heard and break the MI5 monopoly on access to the British media.. But that was years ago, and today nobody gives. a tinkers cuss about my internet posts - so I have sought to escalate matters by communicating directly with the. politicians who allegedly. say how this country is supposed to be run.

Of course, its. quite expensive to keep up a campaign of fax messages for many weeks. Each set of. faxes takes approx 50 hours to send over the weekend, and costs perhaps 35. My phone bill for the last. quarter was 350. These figures are naturally insignificant compared to. what MI5 have been spending against me. over a similar period. It also takes a lot of time and energy to create a. new article every week, and try and find new and fresh aspects and viewpoints on MI5s. persecution of me. I am beginning to run out of both new topics and energy to write these. articles.

So I have. a suggestion to put before the MI5 persecutors who have been wrecking my life since 1990. In a few days time I. will be going on holiday to. Poland and Germany, for a couple of weeks. Previously, almost every time I have travelled. by plane, or gone anywhere on holiday, the MI5 "wreckers" have been most. assiduous in destroying these trips. My suggestion is; if MI5 leave me alone. on this next trip, I will cease transmitting. these articles. If, however, there are any clear instances of harassment (and I am very capable of recognising MI5 harassment when I. see it),. then I will make public these instances and publish any recordings I may make of them, and, unwillingly. and unhappily, continue the articles.

Read about the MI5 Persecution. on the Web

Keith Hill MP (Labour. - Streatham), my elected representative, as ever refuses. to help.

MI5 Refuse to Allow me to have a. Normal Life

Its kind of difficult to contemplate having. a normal existence when you know your entire house is bugged from top to bottom, for audio and,. very unpleasantly, video; when your employment. is systematically destroyed, over and over again; when every time you. leave the country your travel is disrupted by MI5 plants on the plane yelling abuse at you...... you get the idea. I would like. to have some semblance of a normal life, like my Polish and. English friends do. But MI5 have made this impossible, and they have leached massive resources from the taxpayer to institute a life. not worthy of the name. on me.

A few years ago MI5 were very open about their aims in. persecuting me. They were shouting "suicide" at me, both in Canada. where I lived at the time, and during my occasional visits to London. You. cant get much clearer than that. There have been instances. as recently as a few weeks ago of this intention being voiced by their side; on 15 April. 1999, a woman at the next ticket counter at the. Royal Festival Hall said;

"it would kill it, you know, it would just be overkill... they can't. stop can. they"

meaning that "they" were trying to "kill it" i.e. me and they. "cant stop".. The audio file is at;

I wonder why they "cant stop". Nobody (who doesnt know already). believes my claims - so what difference would. it make, if they were to "stop" persecuting me? Perhaps what this persons remarks indicates, is. the depth of the obsession MI5. have with this case. They have chosen at random a person from the general population,. and done their worst to ruin my life. What is. wrong with these people, that they persecute a national of the country whose citizens they are supposed to. protect?

No Chance. of a Harassment-Free Job

Since the harassment started. in 1990 I have had three jobs, the first near Guildford, the second in Oxford, and the third overseas. in Canada. All three jobs have been. systematically destroyed by MI5. It is so ironic that MI5. employs a team of agents, each well compensated for their efforts, to persecute just one person paid a mere. fraction of what they get for their "work". In fact, it is a joke. that MI5 is allocated resources for this sort of effort. If this area of government were run along commercial. lines then MI5 would be very rapidly closed down, they. produce nothing of any value, instead. spending their time obsessed with the bugging and surveillance of their. former employees like Shayler, dangerous subversives like Straw and Mandelson, and "threats. to national security" like yours truly.

Applying for my first post. university job

When I was applying for my first post-university job in. the closing months of 1990, I. found at two or three job interviews that MI5 had got there ahead of me. Interviewers knew what words to repeat from what had. been said at my home recently; MI5 had supplied them with words to hurt. me, and the "British. secret police" were trying to wreck my job search and discourage me from joining the world of work. This and the. continuing harassment in the media and by the public. meant that the search for a job took very much longer than it. would ordinarily be expected to take for a person. with my qualifications.

With my first. job near Guildford came the knowledge that MI5 were doing everything possible to make me lose the job. Despite. their efforts I managed to stay in work. for ten unhappy months, during which they made very clear to me that they. were bugging my workplace, my accomodation in Woking, my car, my home..... and they also made clear that they. had "got to" my employer in. Guildford.

Employment. with Oxford

I was. able to find a new job, with Oxford Computer Training Services (now ARIS/Oxford), quite quickly. But it became very. clear, very quickly, that MI5 were treating this job the same as the first; they tried to get. the other employees. and in particular the managers to attack me. It was plainly MI5s intention that I. be sacked fro this job. But I was not sacked; instead, after. almost a year of abuse from OCTS managers, I was forced to seek medical help, and had to take two months off for. medical leave. OCTS MD Hugh Simpson-Wells. was motivated in keeping me on by the fear that. if he sacked me, then I would take him to court for the treatment. OCTS managers had meted out to me during 1992.

Emigration to. Canada

When I emigrated to Canada. in 1994, I did think that perhaps MI5 would leave me alone, given that I had made the effort to. leave the UK and try to find a new life overseas. I could not. see any reason why they would continue to harass me over in Canada. But. clearly the MI5 agents had their salaries to. think about, since continue to harass me they most certainly did, at my home in Ottawa,. and by getting fellow employees to speak against me, as. had happened with previous jobs in the UK.

MI5 are denying me a future in. work

Former. Chief Constable of Devon and Cornwall John Alderson had this to say regarding MI5's. activities;

"MI5 is not under the. same restraints as the police. They infiltrate organisations, people's jobs and. lives. They operate almost like a cancer."

Currently I am on disability, and I can see that MI5 are denying. me a future. in work. It would be an insult to logic for me to return to work and find a job, in the knowledge. that an entire team of MI5 agents, paid in total many times what I would be earning,. would have the objective of seeing me "done down" in the employment, and ejected. from the place of work. This situation is completely wrong and nonsensical - I would. very much like to have. a job, but MI5 are preventing me from even thinking about returning to work. The culture of secrecy. in MI5/MI6 means there is no objective. oversight of their expenditure, when external oversight and greater transparency. might lead to wasteful and illogical operations such as. that against me being shelved.

Watched and Harassed at my Home and. Accommodation

As you will know. if you have been reading these articles, MI5 have watched and harassed. me at my home, and at every accommodation Ive had since 1990.. Theyve also watched me at neighbours houses in London, and at short-term accommodation such as. hotels and bed-and-breakfasts. They have used the "words" gained from these watching activities against. me, by passing these words on to other people such as OCTS managers for them. to make clear that I am being watched. where I live.

Harassed at rented. rooms in Oxford in 1992

This. was at its worst in 1992 in Oxford, where during the week I lived at rented accommodation in Oxford, and at weekends returned. to my parents home in London. I was being severely. harassed by managers at my place of work, OCTS; and it was clear from the things. they said that they were being supplied by MI5 with details of my home life, that they. were being supplied with words to repeat at. me.

In 1992 I. moved house in Oxford many times, living at a total of five rented accommodations in ten months. In January I started off living in. a rented room at Headington near. the ring road / A40 intersection; then when it became clear that house was being bugged,. moved to a rented room in

Botley, some miles away. It was at the house. in Botley that I had an "interactive watching". experience with Martyn Lewis while he was reading the news; I threw a term of. abuse at him; he first flinched, then gave a gsult of what I had just said, he was no. longer "on my side".

So I moved house again. This time to. a place in Cowley, near the Rover car works, where I stayed. for a few weeks. Because of continuing harassment at work, I soon moved from. this accommodation, to yet another rented room on Iffley Road. By this. time I was very ill and being abused continuously at work. Again, MI5 followed me to the. rented room on Iffley Road, and created new instances of "newscaster watching". There was a television. in the room which. I watched, and as you can guess the newscasters got at me when I. was watching the television. Also once I was assaulted, if thats the word for what happened, on leaving the. house; a youth grabbed me by the coat lapels, roughed me up. a bit with various terms of abuse. I did not report this assault to the police, because what was. happening to me at work was very much. worse, and nobody seemed to think that that was worthy of being reported. to the police. Later that day at work, Alex G, a fellow employee, said "I heard he was assaulted".... I. had not told anyone at work. about the incident that morning..... so once again it was made very clear that MI5 were watching my. rented accommodation and giving information about what was going. on there to managers at work.

So I moved house yet again. in late autumn 1992, this time to a rented room in a. large house on Woodstock Road. I stayed there for several weeks as the situation at work deteriorated due. to OCTS managers abuse, until I was forced to take sick leave from. work for two months and attend hospital as an outpatient; at which point I gave. notice on the room, and returned to London.

MI5 continued to harass me after the. diagnosis of serious illness was made. As. reported previously, they harassed me on a flight to Spain in December 1992; and in 1993, when. I returned to live and work in Oxford, they again bugged my rooms, as. well as my workplace, although the intensity of the harassment was very much. less than in 1992.

Watched,. followed and harassed in Canada

It dismayed me to find that MI5. would not leave me alone after I had settled in Canada. In. January 1995 I rented an apartment at the Bayshore complex in Ottawas. west end. For some weeks there was no sign of the "buggers". But. then it started all over again. They first bugged my car, which had a car alarm installed - the alarm. went off two or three times in a. single evening, and the following day gave a signal that the car had been broken into.. Then they bugged my apartment, and in particular they installed bugs on the phone line. in my apartment.

In September 1995. I moved to a new apartment in Ottawas Bytown Market area, the restaurant and entertainment heart of Canadas capital.. This proved a serious mistake. In the west end I had been. fairly distant from the centre of town where MI5. concentrated their efforts at turning people against me. In. the Market area it was much easier for the persecutors to motivate people to harass me, and over the next couple of years. there were frequent instances of harassment. by the general public.

From 1995 I had some. Polish friends in Ottawa, and as the reader can guess, MI5 have spent much effort trying. to break up this friendship. They supplied various things about my home life to these friends,. for example where I was. living in the Market, directly over the road were the studios of. a music radio station, which you had to "look up" to see; and MI5 told these friends. that I was "looking up" to see the radio station; so the friends then replayed these words back to. me, that I was "looking up". MI5 have. also made various sexual slanders against me, and these friends also unwittingly replayed some of the words they had been imprinted. with by the MI5. persecutors.

MI5 Will Never Allow Me to. have a Normal Life

I have heard many excuses as to why MI5. continuously prevent me from having a. normal life. We are told that MI5 are defending the country against a tere. to zero.

When I have travelled abroad, they always put. their people on the flights, on the journeys I undertake, to continue the harassment, so that I. am put off further overseas travel, and chained to my home in. London. Yet even this is illogical,. because when I lived in Canada, they would still put people on flights back to the UK.... and. what possible reason would they have for doing that? Perhaps the. truest words to describe the MI5 persecution is that reason has nothing to do with their. activities - sane people do not. behave in the way the MI5 British Secret Police have been doing.

Summer 1999 -. more MI5 harassment?

In only a few days time I will be going to Europe again.. This time I have deliberately chosen to travel by a non-UK airline;. so we will see if they put their paid agents on this foreign carrier, we will see if they. try to harass me on this. non-British flight.

If they do. harass me on this trip to Europe, or if they resume the harassment in. London after I return home, then I will continue to report their activities in these faxes. As I. said at the beginning of this article, I would very much like to not have to send these. articles any more, but that is not. my decision to make - it is entirely up to MI5 to cease their pointless persecution of me,. once and for all.

5626

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDem

From -994853220208679687
X-Google-Thread: fa1dc,8bf1ad8fd673971c,start

```
X-Google-Thread: fc2a5,8bf1ad8fd673971c,start
X-Google-Thread: fe6d9,8bf1ad8fd673971c,start
X-Google-Thread: 104f7a,8bf1ad8fd673971c,start
X-Google-Thread: 10dde4,8bf1ad8fd673971c,start
X-Google-Attributes: gidfa1dc,gidfc2a5,gidfe6d9,gid104f7a,gid10dde4,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <cz0711310953449443@4ax.com>
Subject: M.I,5`Persecut ion - Hara ssment throug h th e Rad io
Newsgroups:
alt.conspiracy.antichrist,rec.radio.amateur.homebrew,hr.org.fer,sfnet.tiede.matema
tiikka,microsoft.public.it.winserver
Followup-To:
alt.conspiracy.antichrist,rec.radio.amateur.homebrew,hr.org.fer,sfnet.tiede.matema
tiikka,microsoft.public.it.winserver,uk.misc
From: eiefvfef@gmail.com
Date: 31 Dec 2007 09:53:48 GMT
Lines: 280
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 277
Xref: g2news1.google.com alt.conspiracy.antichrist:2875
rec.radio.amateur.homebrew:14945 hr.org.fer:141119 sfnet.tiede.matematiikka:4171
microsoft.public.it.winserver:77437
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MI5 Persecution Update: Friday. 9 July, 1999

Harassment. in Poland, July 1999

And still it continues.... in my last fax I said. that provided MI5 made no attempts at harassment during my two-week holiday this summer,. or after I returned to England,. then I would discontinue these faxes. Unfortunately MI5. have continued to harass me, both during the holiday and after my return. to London. I really dont want to continue these articles, since they take up so much time and. effort, not to mention expense; but the Security Service wont even. let me have a holiday in peace and quiet, so I have to make further efforts. to bring their activities out into the open.

In early July I visited my aunt and her family in Poland.. On Saturday 3 July 1999, I. went to a family barbecue at an allotment outside the city. One. of my aunts family has previously shown himself to be in the "enemy" camp, by saying the Polish equivalent of "something. wrong with him", and various other. unprovoked insults. It is disappointing that one of my family could forsake the usual. ties of blood and take part in the actions against me, but thats the way it is. This guy turned up at. the barbecue, and started making insults against me. In particular,. he started to say something about the video camera which I had brought along on. the trip,. and the relevance of the video-camera to my fight against the persecution. It seemed pretty obvious to me that my enemies had told. him to turn up to this. occasion, and most likely schooled him in precisely what words to. say; since hes an unintelligent person and would not be able. to think for himself what insults to make against me.

Harassment in London, week ending Friday 9 July. 1999

Got back to London Wednesay afternoon. Two incidents on. the Underground returning from the airport. Unfortunately I. wasnt recording because I wasnt expecting trouble, so. these slipped through the net. One of these was verbal sexual abuse, of the type Ive. heard many, many times before these last. three-and-a-half years.

Yesterday, Thursday 8/July/1999, I. switched on Heart FM which had never "got at" me before.... and the presenter started making jokes. about "mad, crazy" etc. Again, wasnt. recording this because Id never had any trouble from this radio station. and wasnt expecting any.

Also yesterday, on a bus. (155?) from Balham to Clapham, a couple of girls started harassing me with taunts of "crazy". By now. I was expecting trouble and recorded an audio file of this. instance of abuse, at web URL;

The cynical reader might think. my demeanour or behaviour had given rise to the taunts of. "crazy" recorded above. But I assure you my behaviour on the bus would not have. made anyone think I was ill; and the taunts the previous day were the same sexual words as. previously; so I'm quite sure that these incidents. are either deliberately staged, or indicative of an overall high. level of awareness among the London public, particularly in the part of. London where I live.

Keith Hill. MP (Labour - Streatham), my elected representative, as ever refuses. to help.

MI5 Persecution: Harassment through the. Radio

One of the aspects of the MI5. persecution has been harassment through the broadcast and print media; and one of the. aspects of harassment through the. broadcast media is being "got at" by radio presenters. This being "got at". from the radio takes various forms, the most obvious form being through overt. or hidden words and insults. But there are other, subtler forms. In Canada a couple of years ago, I used. to listen to the local radio. stations every morning driving to work, and listened to the music only, switching between radio station presets rapidly as soon as. a presenters voice came on, so that I would not be subjected. to any verbal harassment by the D.J.s.. But they found a way around this; they kept on playing the same song, every bl**dy morning at the. same time, which had the words "all coming. back to me"; the perceptive reader will remember that the words "coming back" have special. meaning (see the Private Eye cover at web URL; for. the
hidden. meaning).

And thats not the only time theyve. allowed the songs themselves to be used as abuse against me; many years. ago Radio-1 in the UK did exactly the same, and the DJ even made it explicitly. clear by saying, "dont you sometimes feel as. if the songs were made just for you".

"We should be done for attempted. manslaughter" says Chris Tarrant

Capital Radio DJs have been "in on it" from the start.. One of the first things I heard in the summer of 1990. was from a Capital DJ who said, "If he listens to Capital then he can't. be all bad" (supportive, you see. We're not bastards). Much of what came. over the radio in 1990 is now so far away the precise details have been obliterated by time.. No diary was kept of the details, and although archives if they exist may. give pointers, the ambiguity of what broadcasters said would leave. that open to re-interpretation.

In spring 1994, Chris Tarrant on his Capital morning show. made an aside to someone else in. the studio, about a person he didn't identify. He said, "You know this bloke? He says we're trying to kill. him. We should be done for. attempted manslaughter".

That mirrored something I. had said a day or two before. What Tarrant said was understood by the staff member in the studio he was saying it. to; they said, "Oh no, don't say that" to Tarrant.. If any archives exist of the morning show (probably unlikely) then it could be found there; what. he said was so out of context that. he would be very hard put to find an explanation. A couple. of days later, someone at the site where I was working repeated the remark although in a different way; they said. there had been people in a computer room. when automatic fire extinguishers went off and those people were "thinking. of suing for attempted manslaughter".

Pirate Radio "gets. at" me

In. another incident in 1990/91, Id been listening to a pirate radio station in South London for half an. hour, when there was an audible phone call in. the background, then total silence for a few moments, followed by shrieks of laughter.. "So what are we supposed to say now? Deadly torture? Hes going to talk to us now, isnt he?" which meant that. they could. hear what I would say in my room. Note the word "deadly" - they give away their. purpose.

It. constantly surprised me that MI5 are so easily able to subvert broadcasters, and, in this. case of the pirate station, to do so, so quickly. I think. the answer to this question is that they must have very wide contacts in the broadcast media;. presumably some or in fact many of those contacts are literally "bought". In the. same way as they tried to buy Jon Snow of Channel Four news, they must have bought many. broadcasters and use. them both directly to make insults against me, and promulgate their points of view; but also, they must use. these "bought" broadcasters to influence other television. and radio presenters, who might not even be aware that it was on MI5s behalf. that they were being influenced to "get at". me.

BBC-Radio-1 D.J.s celebrate my job termination. in November 1991

This is another. one from the "early years". At the beginning of November 1991 my. employment in Woking, Surrey was terminated. Chris Tarrant of Capital-FM had already made. nasty remarks about both my work for the company, and the managers of the company themselves - "so theyre. not really a serious company, well theyd have to be to employ. you wouldnt they".

So when I was terminated, as you can. expect, BBC Radio 1 D.J.s celebrated. On the Saturday afternoon (either 9/Nov/1991. or 16/Nov/1991 - I cannot remember precisely) I briefly. listened to Radio-1 and heard the disc jockeys loudly proclaiming "youre useless, you should be. sacked". On the same day, I went down to the. Kwik-Fit in Tooting to get my cars tyres replaced, and in the office. ran into a couple of their staff, one of them with an Australian accent, who said "what do you. think about it then? Its getting killed on. the radio."

Plainly, if. a random car-repair shop in Tooting knew about the persecution, then many thousands of other people across the. capital and all over the country must have known. And. the phrase "getting killed" shows very clear awareness of what. the MI5 Persecutors intentions towards me were in 1991, and judging. by the continuing harassment, still remain. today.

Recent Feedback from. Virgin-Radio

As readers will know, from. mid-March 1999 for some four months, every weekend, I have bombarded Westminster MPs. with faxes about the terrible, all-encompassing MI5 Persecution. (Jesting aside,. it really is terrible and all-encompassing,. in the UK anyway.) In June 1999, after I'd been at it some three months, I started getting. "covert" feedback from Virgin Radio.

The first feedback I got. was from Danny Baker, on Sunday 13th June. That weekend I was sending. an article which contained biting criticism of the police inaction in this case. Danny. Baker on his Virgin radio show started an angry rant that "he knows. it's rubbish", ie. he was rubbishing what I'd said in that weekend's faxed article. Unfortunately I wasn't. recording this. programme.

The next possible Virgin-Radio feedback was a week later on. 19th June 1999. This is contained in the audio file above, in. which Johnny Boy on his "Wheels of Steel". programme says;

"and if you would like to put a triple. play together, ahhh.... because quite frankly Hipster and me are running out. of ideas...."

He goes on to counter. Hipster's "how dare you" with a protestation that he is "only. joking". You can listen to this incident on my website at URL;

What I. reckon is that my article faxed to MPs that weekend was forwarded by one. of the recipients to Virgin Radio. My article had included the words;

"I am beginning to run. out of both new topics and energy to write these articles."

So. what I reckon is that Johnny Boy read the article.... and rephrased the above. line "run out of ... new topics" to "running out of ideas". I recognise that this is. a pretty tenuous inference to make.... but do listen to the audio file,. from the "ahhh...." pause in JB's speech you can guess he is about to say. something "risky" and at someone's expense. Anyway, I. listen to the Wheels of Steel regularly and will continue to do so, recording it. as I always do - so any future funny remarks will get immortalised on my website! (There was. a previous incident. from August 1998 which is preserved at web URL;

but I am. sufficiently uncertain about it that I have not included it in this. article.)

First Ever Radio Reference - Alan Freeman. of BBC-Radio-1

The first time I was ever referred to on the radio was. sometime in May or June of 1990, by Alan Freeman of BBC-Radio-1. Note. that this isnt an "interactive listening" episode, its different, this. was Freeman reading out. a letter from one of my "real life" enemies.

Id. acrimoniously broken up with some former friends in January of 1990, and I think they were still trying. to cause me trouble in June of that year. Freeman on his rock show read out a letter. from an "Andrew Turner"; one of my. acquaintances from January 1990 had been called Andy Turner, so I think its the same guy. Freeman quoted Turner as. saying various. things about me, in particular Freeman said "thats a hell of a letter you. wrote there Andy", "with a schizophrenic you're never alone", and something about the "one who wore out his welcome. with random precision" (from the words. of the Pink Floyd song).

When. I was looking for primary causes of the MI5 persecution, this letter which Freeman. had read out on his programme struck me as being potentially one of the sources of the persecution.. I know Turner and various others in that group were very bitter at. what they saw as their failure and my undeserved success, and they. were quite determined to upset the applecart. Of course several other primary. causes are possible; I do not know why MI5 chose me as opposed to someone else, and MI5 are. hardly likely to. tell me.

"Absolute Obscene" David Hepworth. of GLR

This one Ive assigned a 100% rating on the website. There are actually. two separate incidents, which are linked through. the D.J.s choice of words. The first incident can be heard in computer audio at web. URL;

On. 21/Feb/1997, I was listening to BBC GLR, by stealth. Back in 1990 I used to have Capital blaring out of the speakers all over the. garden ("if he listens to Capital then he can't be all bad", thanks. ever so much). But now I listen on my walkman on headphones. with the volume turned right down. It could not possibly be overheard. by any listening device, no matter how sensitive, because. sound does not carry from the phones.

Yet. somehow they are still able to tell which station I am listening to on the walkman. And last night, I bravely tuned. to GLR 94.9FM at around 8.45pm. Everything went well for the first half hour. or so. Around 9.10pm, Hepworth said. the following after the song "Come Around" by the Muttonbirds.

"coming up. after this, we got the rock-and-roll A-level, we have, I assume, Brian do we have an. embarrassment of prizes in there, we do, don't we,. absolute obscene amounts of prizes, there will no doubt be a riot at the back door, and that's, er,. A-level coming up after this"

The key phrases in what he said are, "EMBARRASSMENT of prizes",. and what he himself emphasized verbally, "ABSOLUTE OBSCENE amount of prizes". It. is my. belief (based on content and tone of voice) that when he spoke these phrases he knew I. was listening, and that the phrases refer directly to my situation. The "EMBARRASSMENT" is the embarrassment he and other. media people would feel at. having their wrongdoing exposed; the "ABSOLUTE OBSCENE". (which he verbally emphasized) described the disgusting sexual abuse which. the harassers have been throwing at me.

There was a second incident, on 9/May/1997, which may be found. on the web (with computer audio) at. URL;

This. incident again contains the words "absolute embarrassment of prizes", with the same emphasis as the first. instance, and laughter following the phrase. So theyre aware of the complaint I. made on Usenet after the first incident; and they. are so arrogant that they do exactly the same again.. They are so arrogant, they know they are being recorded and that what they say will be published on the web, but they. dont care. What corrupt media, and. what a corrupt country to have such corruption in its media.

7288

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDem

```
From -3726190794776762844
X-Google-Thread: fa1dc,7a94c73936ee15e2,start
X-Google-Thread: fc2a5,7a94c73936ee15e2,start
X-Google-Thread: fe6d9,7a94c73936ee15e2,start
X-Google-Thread: 104f7a,7a94c73936ee15e2,start
X-Google-Thread: 10dde4,7a94c73936ee15e2,start
X-Google-Attributes: gidfa1dc,gidfc2a5,gidfe6d9,gid104f7a,gid10dde4,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post02.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <zu0711311019198546@4ax.com>
Subject: M I-5 Persecu tion   Thr ee Years of MI5 P ersecution F axes
Newsgroups:
alt.conspiracy.antichrist,rec.radio.amateur.homebrew,hr.org.fer,sfnet.tiede.matematiikka,microsoft.public.it.winserver
Followup-To:
alt.conspiracy.antichrist,rec.radio.amateur.homebrew,hr.org.fer,sfnet.tiede.matematiikka,microsoft.public.it.winserver,uk.misc
From: ivfeveiv@hotmail.com
Date: 31 Dec 2007 10:19:22 GMT
Lines: 207
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 204
Xref: g2news1.google.com alt.conspiracy.antichrist:2876
rec.radio.amateur.homebrew:14946 hr.org.fer:141121 sfnet.tiede.matematiikka:4172
microsoft.public.it.winserver:77438

Three Years of "MI5 Persecution". Faxes

Ten. Thousand Faxes, and Still No Breakthrough

In the last three years I have sent at least 5,301 faxes. directly from my computer, and 4,478 faxes through Demons. extremely useful TPC.INT service, to politicians and the media, in the subject of the. "MI5 Persecution".. This has obviously cost me quite a lot of money, not to mention time and. effort. The aim of all this communication has been to try to put discussion. of the "MI5 persecution" into the public arena; unfortunately, this aim has not been achieved,. yet.

This fax will be. my last transmission for the time being, since the summer recess is almost upon us. Depending on what the persecutors. do between now and the autumn, I may or may not resume. faxing later this year. In the article dated 18/6/99 I said Id stop the articles if MI5 left. me alone; but they seem. to have no fear of these articles, since they kept pursuing me in Poland and after. my return to the UK. Again, if they leave me alone this summer then I wont have. to resume the articles in the autumn; but I think its fairly obvious that MI5 have. nothing better to do with their time than to. go after me, and its almost pointless to make this offer when I know they wont. cease harassing me.

TPC.INT. 1996, 1997, 1998.....

Three years ago I was living in Canada, and. the only economic way of sending. faxes to the UK was through the international email-to-fax gateway TPC.INT. This highly useful and totally free. service converts emails (which may have Postscript-formatted attachments) into faxes. which it delivers to any number within the UK. Using the. telephone book, I constructed a computer. database of M.P.s fax numbers, and used this database to. deliver copies of the "FAQ - frequently asked questions" article which Id written some time. earlier.

This service is still. operational, but given that I have resided in London for the last year, I do not need to use Demons service when I. can send articles directly from my own computer using its fax/modem, which. is what I have been. doing since 1998. However, instead of just sending the FAQ article, Ive been composing articles on various aspects. of MI5s treatment of me. Since their activities have been going. on for nine years now, and there have. been various aspects to their actions; they have harassed me at work, at home, through the media, etc; I have so far not. run out of things to say, particularly since. their harassment of me is still ongoing, and I have been able to record. the actual words used by their paid agents on my minidisc-walkman. Since mid-March 1999. I have been sending these articles pretty much. every weekend.

Anyway, as mentioned above, I intend this. to be the final transmission before the. summer recess, and it would be nice not to have to continue these articles in the autumn. But thats something that depends on. them, not me,. and their attitude is unfortunately clear.

Why. am I sending these articles?

Because I want the harassment. to stop. The cynical reader might think from these articles. that I "thrive on adversity" and would be lost without the harassment. to complain about; but that is not the case. In a perfect world I would like to return to work, in a job unsullied by. MI5s attempts to ruin it; I would like to live in a house which wasnt bugged, with my. words being repeated at me wherever I go; I would like. a normal life. I do not particularly thrive on adversity; I. am beaten down by adversity; the purpose of these faxes is to. try to bring the whole matter out into the public arena, where the rights. and wrongs would be visible to all, and once that were to happen, the. adversity might cease. I have had something approaching a normal life a. couple of times in the last nine years, but always,. in the end, MI5 turn up and ruin it. I just want these people out of my life, permanently, and. the only way of doing that is to kick this business into the public arena, and shame MI5 so that. they are incapable of doing me. further damage.

Having said. that, unfortunately it seems fairly obvious by now that these faxed. articles are not going to achieve that aim. Some of the recipients know what I am. saying is true; but they choose to stay quiet - wisely, because. if they were to admit the truth of these articles, then they would bring the wrath of MI5 down on their heads. Presumably most recipients. do not know these articles are true; their. reaction to me is the same as my reaction to the other. apparently deluded people who have sent me email after reading my. webpage to tell me it happened to them too; the reaction being, "leave me alone,. I dont want to know". Its sad that many M.P.s have given me this reaction, because my case. genuinely is different; I genuinely am. telling the truth, and the harassment genuinely is happening to me, and some recipients of this. fax know this to be true.

"Write to your own. M.P."

My local M.P. is Mr Keith Hill, Labour-Streatham. He refuses. to have anything to. do with me. He refuses to represent me, he refuses to talk to me, he has told me not to communicate with. him. He has done absolutely nothing to help me, and he has told. me he will do absolutely nothing to help. me.

Other M.P.s, recipients of these faxes, have for quite. some time been telling me, "write to your own M.P.". On 23. March 1998, Paul Burstow M.P. wrote to me; "Whilst I take the. issues that you raise seriously, there. is a strict Parliamentary convention that one Member of Parliament does not take up anothers casework. Can I suggest that you. write to your own M.P. at the House of Commons?". Hopefully the above paragraph will make clear. that I have written to my own M.P. and he has proved unhelpful.

Other M.P.s have told me the same thing. On. 21 May 1998, John McFall M.P. told me, "... there is a parliamentary convention that. M.P.s do not take up cases of people not in their constituency..... therefore. can I suggest. that you write to your local M.P. who will be better able to assist you." . And on 8 June 1998, Michael Foster M.P. wrote to me that "M.P.s are inundated with unsolicited faxes .... M.P.s have a. considerable amount of constituent work to. deal with, thus other M.P.s constituents cease to be of concern in so far. as they should have a voice and representation".

Simon Hughes M.P. wrote to me on 5 November 1998, "There is. a strict parliamentary convention which states. that I am not able to represent individuals who are not constituents of mine.. My advice is that you find out who your own Member. of Parliament is rather than circulating your story to all M.P.s.". To my suggestion that Keith. Hill M.P. was doing nothing to help me,. George Foulkes M.P. sent the following faxed response; "If Keith Hill your own M.P. cannot help no-one else. in the House of Commons can.". But it is clearly not a case of "cannot" help, but "will not" help. I have detailed in letters to Mr Hill specific. ways in which he could help. me, first of all by finding a lawyer to represent me. It is. Mr Hills job as a Member of Parliament to represent his constituents; if. he chooses not to do so, then it reflects badly on him.

Kate Hoey Sympathises, but. says, "Write to your own M.P."

Here is. part of a letter Ms Hoey sent to me on 15 June 1999.

I appreciate that. you have concerns about the persecution and harassment that you feel you are experiencing but I note that your MP is in. fact Keith Hill.. There is a very strict Parliamentary code which means that M.P.s can. only take action on matters that relate to their own constituents.. I am aware that you are not happy with the fact that you do not feel. Mr Hill will assist you but I am afraid that I cannot take any action on. your behalf.

Ms Hoey plainly belongs in the camp of people who. do not know about the reality of the "MI5 Persecution".. She doubts its existence; "the harassment you feel you are experiencing". She urges me to see Mr. Hills assistance, as have other M.P.s. detailed above.

Really, the fact that I am. unable to obtain assistance from any other M.P., if my own alleged "representative" Mr. Hill chooses not to represent me, is. a very basic weakness in the Parliamentary system. Beinggmainly events at my former employers in Oxford during 1992,. when I was harassed constantly by manager Steve Mitchell for most of 1992, and. was forced to begin attending hospital as an outpatient as a. result. This harassment was obviously of Mitchells own volition, since I observed him harass. similarly another new worker two years. later; but it was also at MI5s instigation, since they. kept providing him with words from my home life which he then proceeded to abuse me with.. Yet this is not the only employment that MI5 have destroyed; the MI5. persecution has lasted from the end of my student days until the. present time, during which I have had three jobs, all of which have been in. various ways destroyed by MI5s deliberate actions.

In March 1999 I decided to try to force the issue. once and for all. Ever weekend for the last four months, apart from two weeks when I. was on holiday,. I have sent original articles by fax directly from my computer to Westminster politicians. Here is a summary of the articles. of the last four. months;

How to Identify the. Persecutors

Their use of Schizophrenia. to discredit my claims
Comparing. the MI5 Persecution with German "Final Solution"
MI5 are Plainly Trying to. Kill Me
MI5 Waste Taxpayer Millions. on Pointless Hate-Campaign
Four. Years of "MI5 Persecution" Posts on Internet Newsgroups
MI5 Agents. are Clinical Psychopaths
BBC. Newscasters Lior the Victims of MI5
MI5 Have Systematically. Destroyed My Life
Harassment through. the Radio

To my. deep worry these fourteen faxed articles have still not achieved the objective of kicking the matter out into the public arena and. forcing an admission either. from the persecutors, or from those "in the know", which includes. some M.P.s.

I dont really know what. else to do to try to bring the "MI5 persecution" out into the open. I. would have expected that these weekly faxed articles would have had some effect, but the only result has. been M.P.s telling me to contact. my own representative Mr Hill who refuses to talk to me. I understand the convention that M.P.s deal. with their own constituents and not those of other M.P.s, but there seems to be a. gap in the process since it allows your own M.P. to refuse to deal. with you, and then. you are totally denied any representation at all.

Conclusion

The only conclusion I can inform the readership of these. articles of, is that there is no. conclusion to this matter, yet! Three years of intermittent articles, and four months of. faxes every weekend, have been absorbed. by some of the most powerful people in the country, to no effect.

Whether these. articles continue in the Autumn is entirely up to the "opposition". I offered them. a cessation of complaints if they would leave me alone on holiday. in June/July, and they went right ahead and harassed me anyway, on holiday and after I returned to London.. If MI5 cease their activities now, then I wont have to. continue these faxes in the autumn; but I suspect they wont cease,. which means youre in for more articles later this year. "There will be no. conclusion."

8950

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDem

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From 1051403420120656773
X-Google-Thread: fa1dc,e7cb54d9c19ed6e8,start
X-Google-Thread: fc2a5,e7cb54d9c19ed6e8,start
X-Google-Thread: fe6d9,e7cb54d9c19ed6e8,start
X-Google-Thread: 104f7a,e7cb54d9c19ed6e8,start
X-Google-Thread: 10dde4,e7cb54d9c19ed6e8,start
X-Google-Attributes: gidfa1dc,gidfc2a5,gidfe6d9,gid104f7a,gid10dde4,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <kl0711311102319633@4ax.com>
Subject: M,I-5'Perse cution ' M I5 Wa nt Me to Sen d Yo u thes e Fa xes
Newsgroups:
alt.conspiracy.antichrist,rec.radio.amateur.homebrew,hr.org.fer,sfnet.tiede.matema
tiikka,microsoft.public.it.winserver
Followup-To:
alt.conspiracy.antichrist,rec.radio.amateur.homebrew,hr.org.fer,sfnet.tiede.matema
tiikka,microsoft.public.it.winserver,uk.misc
From: fvemev@yahoo.com
Date: 31 Dec 2007 11:02:35 GMT
Lines: 280
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 277
Xref: g2news1.google.com alt.conspiracy.antichrist:2877
rec.radio.amateur.homebrew:14947 hr.org.fer:141122 sfnet.tiede.matematiikka:4173
microsoft.public.it.winserver:77440
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MI5. Want Me to Send You these Faxes

MI5. seem to Want to Spin this Business out for as Long as Possible

The. MI5 persecution has now been going on, starting from June 1990, for well over. nine years. If I knew how to put an end to it then I would do so. Of course MI5 have. indicated how they wish to finish the matter, by finishing me off; they. indicated this very clearly years ago when they were. shouting "suicide" at me.

But a. deeper truth is that the MI5 agents carrying out the persecution rely on it for their income and their livelihood. They have. absolutely no interest in anything other than spinning out the. whole business, because that is how they will. maximise their earnings from their employer for the "work" they. do against me.

A vital part of the fantasy structure MI5 have created about me is. that I am somehow a worthwhile target. If you bother to. read these faxes, if you browse my website, or perhaps read my posts on. the uk.misc newsgroup, you will have by now twigged that I am a totally insignificant person. who in a proper dictatorship like. East Germany would not merit five minutes of Stasi time. But Britain. is improper in the methods of its corruption, and the Security. Service seeks to present me as being a an evil fascist, an evil communist, an. evil something-else, and even a "national institution".

It occurs to me that to some extent I am playing into their. hands, into their scheme. of things, by writing these articles and sending these faxes.. By doing these things, I elevate my profile, and fuel MI5s paranoid obsession with me. But to stop sending faxes would be to give. up the only hope I have. of seeing their campaign "outed" and justice done. Certainly there is no point going to. the police again; and as remarked in a previous article, the Security. Service Tribunal routinely whitewashes every complaint that is placed. before it.

So although MI5. seems to want me to continue sending these faxes, doing this is the only real chance of getting. this business out into the open. And so Ill continue trying to kick. down their house of cards. At least my situation. is less serious than that of some other victims of the secret services; unlike. Shayler I am not broke and exiled; unlike Fayed I have not. lost a son to the posited activities of the secret services. All I have lost is some of my health, some. of my life, and some of my possible career.

MI5s Abuse. of me is without Cause or Reason

It. constantly puzzles me that MI5 refuse to leave me alone, wherever I go and whatever I do, or rather,. whatever I dont do, since Im not a very socially. or otherwise active person. When I am in England, they chase me all over the place, and once theyve found me, they pay people. to shout rude words at me.. When I am in Europe, they again chase me all over the place, and as usual pay people to shout obscenities at. me. When I am in Canada or visiting the States, they faithfully chase me all over. the place, and when they find me,. pay people to shout obscenities at me.

It is hard to avoid the. conclusion that these MI5 operatives who chase me are total lunatics. You will remember. from a previous articles the assessment "MI5 Agents. are Clinical Psychopaths". They have tried to blame me. for what they do and what they say; yet their lies have been wafer-thin, and are clearly seen to be oiled by the money. which they acquire from the Government,. and ultimately from the taxpayer.

They have tried various lies to put. the blame on me; "we have to abuse him because hes a nutter", as if there. werent many tens of thousands of other people with schizophrenia. in the United Kingdom. Their choice of abuse words is telling; subconsciously perhaps. they realise that it is they who are the "nutters", and they. try to project their own illness onto their target.

MI5 Operatives have Nothing Else to Do With. Their Time

Ive seen the same "Alan Holdsworth" person. three or four times over a period of several years. I saw. him at the Civic Hospital in Ottawa in the Emergency Ward, where he falsely. declared his name to be "Tad"; at Ottawa airport in summer 1998; and on. board another flight in 1995.

So. what we see from the above paragraph is, the same people are delegated to watch me for many. years. Without me, they wouldnt have a job. They literally have nothing else to do with their time,. except indulge their voyeurism against me. With this observation,. we come to the core of MI5s campaign against me; these people are not fit for any job other than. the exercise of voyeurism against me, and if sanity were to. land on MI5 then they would be out of a job. If. sanity were truly to land then these people and their employers would be prosecuted. for offences under the Protection from Harassment. legislation, which they are clearly breaking.

It is one of the ironies of their campaign that MI5 have been trying. to make. me an object of ridicule for completely trivial things I have done, while MI5. themselves have simply not mentioned how ridiculous is their own behaviour and that of broadcast media journalists, in spying. on me while they read the news for example. If the whole truth of. this business is ever exposed, and despite. all my efforts it still seems there is a block on its exposure in Britain, then. the rights and wrongs will be clear to all, and no. amount of MI5 lies will be able to change that. MI5 presumably do realise. just how damaging such a revelation would be both to themselves, and to broadcast media. such as the BBC and ITN, because there has. not been even the slightest chink in the armour, despite four and a half years. of my complaints on internet newsgroups and by fax to politicians and the. media.

MI5s Final Kick in the. Teeth to the British State

For someone. like myself born in the late sixties it seems peculiar to think. that Great Britain once used to have a say in the destiny of foreign peoples in far-off sections of the globe. Modern Britons tacitly. accept the lowering of their country to a third-rate power. reliant on the United States for what little say it has in the world. A. third-rate power, now "reverse-colonised" by third. world peoples it once ruled and riven with internal problems so severe the government hardly dares. acknowledge them.

To this third-rate power the MI5 secret police are. delivering the final kick in the teeth through a campaign of persecution which. is guaranteed to hold the state. up to ridicule throughout the world when it is finally exposed. As a "thought experiment" suppose the French or the. Spanish security service had done to. one of their own born citizens what MI5 has done in this. country. Suppose say the Spanish had planted hidden cameras in his home, for the perverted pleasure of their. state television newscasters, just as hidden cameras have been placed in my home for. the perverted pleasure of Martyn Lewis, Nicholas Witchell. et al. Suppose the Spanish service. had for nine years been trying to force suicide on their target; at times, so blatantly. that they shouted the word "suicide".

Now suppose they were. caught.

Of course,. as long as MI5 arent caught, theyre laughing. The psychopathic security. service agents gets their kicks from shouting abuse at me; the newscasters,. Lewis, Witchell etc get their jollies, "it was so funny", we were watching this bloke and he couldnt do. anything about it.

But once theyre caught, the. sky falls in. Of course, the "patriotic" MI5-funded media in Britain will. try to put the best spin on the MI5/media activities; it was the targets. fault, of course. But most of the world bears no allegiance to Britain. If this business is ever. exposed then a weakened Britain will. become the laughing-stock of the world. And I promise you,. the security services persecution of me will be exposed. MI5 has delivered a. final kick in the teeth to the British state, and I will do everything I can to ensure the world hears about. what they have done.

Metropolitan Police Refuse. to Investigate the MI5 persecution

I have. on a couple of occasions tried to motivate the police to investigate MI5s actions against. me. On each occasion they have refused to do so. In 1995 I went to. my local police station and spoke to an officer there;. he refused to accept my complaint, and seemed interested only in seeing me leave the station as. quickly as possible.

Earlier this year. I had some communications with Det.Sgt.Richards of Charing Cross police. Again I asked him to. deal with MI5s actions against me. Unfortunately DS Richards conformed to the. negative stereotype of the bigoted, ignorant "copper"; he said, "I have read your various. bits on the internet. I'm afraid. there is no substance or credence to it. It's an absolute load of rubbish.. I don't investigate rubbish. I can't be more blunt or to. the point than that."

You have to wonder at the state of. law enforcement in Britain. If the victim of a murder is black,. as happened in the Lawrence case, the police deliberately botch the investigation. If the victim. of a crime is mentally ill, and the perpetrators are the secret services, as in my case,. then the police refuse. to even begin to investigate the crimes committed. Politically Britain is a third-rate country,. but from the point of view. of obtaining justice, Britain ranks down there with third-world countries. You almost feel that MI5 and their media. buddies would not even have any shame if their activities. against me were exposed; after all, why should they? they have the money, they. have the control, OK so perhaps theyve broken a few dozen laws, but doesnt the fact that the. police are too corrupt to investigate these crimes, doesnt that prove. that in fact no crimes have. been committed?

I should. say again what I have said earlier in this article. My losses over the. last nine years have not been as great as those of other victims of British Secret. Police malefaction. Fayed lost his son to their murderous activities; in my occasional communications. with former MI5/MI6 employees. I have been informed that a "permanent solution" is not uncommon for. opponents of the British secret police. I have lost health and financially, but am obviously well enough to keep fighting my. case. Others have lost much more than I. If the joke which. is British "law enforcement" refuses to enforce laws against the security. services then that is something that is recognised in other countries and Britains. stock correspondingly falls. Not that it. has very far to fall; the days when England had any say in. the world are long gone.

MI5 Want. These Faxes to Continue

Before the holiday,. I said that if MI5s harassment of me stopped, then I would cease my complaints. They. have known very well that if they continued to harass me then I. would resume the fax campaign in the autumn. Yet they have not. stopped persecuting me. Recently a woman outside my domicile screamed her head off with abuse in the direction of. my window; and on Saturday 2 October, when I was. shopping at a nearby supermarket, a man shouted the particularly vile sexual swear word which. I have heard many times before over the last. few years.

MI5s attitude shows complete arrogance. Yet it also shows that. they want the faxes to continue and deliberately try to provoke. me into sending further faxes.. The reasons for this are given in the first paragraphs of this article; the MI5 operatives who persecute. me have nothing else to do with their time; to. make their campaign, against an apparently unreacting target, have some value, they have to force me to react. in some way against their actions; and by. reacting in this way, by bringing their campaign to the attention of British politicians, I play. into their hands, by giving their campaign the attention and importance which they. feel it deserves.

In the short term, by sending these faxes, perhaps. I am doing something they want me to do, but. in the longer term it is undoubtedly more in my interest. than theirs for their activities to be exposed. If their operatives truly do wish to. see these faxes continued then they are committing a serious mistake, because it. significantly increases the risk if M.P.s. (some of whom already know about MI5s activities against me) are advised of my. side of the story.

I will continue to monitor and. record the secret services activities against. me over the next few weeks. If they diminish and cease, as I hope they will,. then I may be able to call a halt to these faxes; but that it something which is entirely up. to them; recently their continued harassment makes clear that they. do wish the faxes to continue, and in all sincerity I do think they will continue their. activities and make it impossible for me to cease these faxes. It may trouble. you to receive these articles, but it troubles me much. more to be on the receiving end of a national persecution campaign; and while. Britain does not have free speech provisions as does Canada in the Charter of. Rights and Freedoms, and the US. in the first amendment to the constitution, in practice I do not think anyone is going to try to have. me locked up for speaking the truth. I still cherish the hope that. the veracity I express will be shown for what it is, and that the truth. will prevail and make me free.

Removing the Mask of Anonymity from. the MI5 Operatives

Undoubtedly one factor encouraging the MI5 agents actions against. me has been the fact that they can shelter behind a mask of anonymity. while they carry out their abuse. This is both a sign of their realisation that. their actions are. criminal; for crimes are harder to pin down and make a coherent complaint about when their. perpetrators are unknown; and it is a sign of their cowardice, since they. lack the backbone to say things to my face themselves; instead they almost always. rely on third parties to carry out the actual acts of. abuse.

On a few occasions. I have seen the perpetrators, but on each occasion they have managed. to preserve their anonymity. They travelled on the same British Airways flight as me in 1994; but. BA have ever since refused to give up the. passenger list for the flight, and the police and lawyers have proved useless in obtaining their identities from. the list. Also one of them followed me into A&E department of Ottawas. Civic Hospital a couple of years ago, and gave his name as (if I. heard correctly) "Alan Holdsworth"; but the doctor refused to give out his identity. when I later tried to speak. to him.

If only we knew the identities of the individual operatives, then it. would be possible. to find out the identity of their employing organisation. But I think we know the latter already, since I. have been accusing them on internet newsgroups for four and a half. years now, and they have never denied my guess. Indeed, when I was travelling. in January 1996 back to Ottawa, two youths. on the (British Airways again, unfortunately) flight made a lot of noise at me, one of them saying to the other. that I "didnt know who we are". That is a. wafer-thin denial; I had been saying for a year that they were MI5, so a stronger denial would be necessary if. my guess were truly mistaken. I. think the lukewarm denial was worse than no denial at all, since it confirmed my guess that the. employing agency was indeed. MI5.

Conclusion

It has been suggested. to me that by sending these faxes I could be making trouble. for myself; but I dont think so. My psychiatrist knows what I am doing; indeed I have given him. a couple of these articles for him to cast an. eye over.

I dont want to have to. send faxes for the next year, or the year after that. But that. is entirely up to MI5. If they continue to persecute me then I am forced into defending myself. The. ball is in their court, and it is entirely up. to them what they do. If as I suspect it is their intention that these faxes continue, if that is what they insist will happen. then so be. it.

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDem


From 2318553718806116617
X-Google-Thread: fa1dc,8fadb47131b4358f,start
X-Google-Thread: fc2a5,8fadb47131b4358f,start
X-Google-Thread: fe6d9,8fadb47131b4358f,start
X-Google-Thread: 104f7a,8fadb47131b4358f,start
X-Google-Thread: 10dde4,8fadb47131b4358f,start
X-Google-Attributes: gidfa1dc,gidfc2a5,gidfe6d9,gid104f7a,gid10dde4,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out02a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx01.iad01.newshosting.com!newshosting.com!post02.iad01!news.newsdemon.com!not-
for-mail
Message-Id: <oj0711311148262497@4ax.com>
Subject: M.I,5.Persecution  ` M I5 I nsist that  the se Faxe s mus t Continue
Newsgroups:
alt.conspiracy.antichrist,rec.radio.amateur.homebrew,hr.org.fer,sfnet.tiede.matema
tiikka,microsoft.public.it.winserver
Followup-To:
alt.conspiracy.antichrist,rec.radio.amateur.homebrew,hr.org.fer,sfnet.tiede.matema
tiikka,microsoft.public.it.winserver,uk.misc
From: femfevim@lycos.com
Date: 31 Dec 2007 11:48:31 GMT
Lines: 67
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
Xref: g2news1.google.com alt.conspiracy.antichrist:2878
rec.radio.amateur.homebrew:14948 hr.org.fer:141123 sfnet.tiede.matematiikka:4174
microsoft.public.it.winserver:77441
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MI5 Persecution Update:. Friday 31 March, 2000

22,544 Faxes Delivered in Three Years, and. Still No Breakthrough

In the last three years I have sent at least 22,544 faxes to. recipients in the UK, of which at least 13,974 have gone to Westminster. Last. weekend alone I sent 832 completed faxes to politicians,. the media and various others, on the subject of MI5s. mistreatment of me these last ten years.

I believe some of the recipients know of. MI5s actions against me in the last decade; yet they maintain strict. "omerta" in fear of the security services persecution. actions being made public.

MI5 Insist that these Faxes must. Continue

Between September 1999 and mid-January. 2000, the persecutors, whoever they might be, mostly left. me alone. I counted only three incidents in almost five months - which is a lower. rate than at any time since June 1990, when this business. started.

By leaving me alone for several months,. the "oppressors" were making an implicit assurance that they would. continue to leave me alone in the future.. On 11 January I posted to an internet newsgroup accepting what I saw as their. assurance of no further harassment, stating that I would cease sending these faxes - which is the only thing I do in my. defence - if they continued to leave. me alone. And for two weeks I did indeed refrain. from distributing these articles.

But MI5 acted in bad faith. From. the last week of January until the beginning of March, they resumed their hate. campaign against me with a vengeance. They even put people in my road three times in February,. one instance of which I recorded.. They resumed their normal behaviour of bugging my phone and house, listening to where I would. go, and then placing people in that location to. "aggravate and annoy" me.

What MI5 did in. February is plainly a contravention of the Protection from Harassment Act 1997, since. it has caused me "alarm and distress" as specified in the Act. But it is a waste of. time going to the police with a complaint, since the police have done, and will do, absolutely. nothing. I complained to the Metropolitan Police in 1995, and they refused to take. my complaint.. When I complained again in 1999, the detective sergeant laughed at my. complaint, with the words, "It's an absolute load of rubbish. I don't investigate rubbish. I can't be more. blunt or to the point than that.". It is useful to remember that the Met also treated Stephen Lawrences. parents with similar discourtesy; police prejudices are similar in my case, so I. can take some comfort from that case and hope that one day I will get a. fair hearing.

MI5 acted in bad faith, but they also acted with. arrogance. They do not care if I send 800 faxes every weekend, since they know I cannot. prove my claims, and the. recent Shayler case shows how weak external oversight is of the secret services. But they acted with more. than arrogance - the MI5 agents actually want my faxes to continue, they insist. that these faxes continue,. since my communications give them an excuse to continue their activities, and continue in the paid employ of the secret. service. Despite their use of diverse proxies over the. last ten years, it is the same MI5 officers behind the campaign all the time - I have seen one of them. on three. occasions in Canada over a period of years, and it is a safe belief that that same person continues to. be paid for his "work" in harassing me in London now. The average. cost of an MI5 employee is some 75,000 per annum, so. one may infer that their officers are amply compensated; their insistence. that "hostilities" are maintained is understandable when placed in this. light.

12274

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDem
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From 1547220688293918984
X-Google-Thread: fa1dc,85f33d4fac63cbe6,start
X-Google-Thread: fc2a5,85f33d4fac63cbe6,start
X-Google-Thread: fe6d9,85f33d4fac63cbe6,start
X-Google-Thread: 104f7a,85f33d4fac63cbe6,start
X-Google-Thread: 10dde4,85f33d4fac63cbe6,start
X-Google-Attributes: gidfa1dc,gidfc2a5,gidfe6d9,gid104f7a,gid10dde4,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out02b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx01.iad01.newshosting.com!newshosting.com!post02.iad01!news.newsdemon.com!not-
for-mail
Message-Id: <jy0711311209126150@4ax.com>
Subject: M,I-5'Pers ecution , 22,54 4 + 8 37 = 23, 381
Newsgroups:
alt.conspiracy.antichrist,rec.radio.amateur.homebrew,hr.org.fer,sfnet.tiede.matema
tiikka,microsoft.public.it.winserver
Followup-To:
alt.conspiracy.antichrist,rec.radio.amateur.homebrew,hr.org.fer,sfnet.tiede.matema
tiikka,microsoft.public.it.winserver,uk.misc
From: vmevem@bigfoot.com
Date: 31 Dec 2007 12:09:15 GMT
Lines: 64
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
Xref: g2news1.google.com alt.conspiracy.antichrist:2879
rec.radio.amateur.homebrew:14949 hr.org.fer:141125 sfnet.tiede.matematiikka:4175
microsoft.public.it.winserver:77442
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MI5 Persecution Update: Friday. 7 April, 2000

22,544 + 837. = 23,381

Last weekend I delivered another 837 faxes to. politicians and the media on the. subject of the security service conspiracy which has destroyed my life. This. brings the total in the last three years to at least 23,381. These totals. do not include partially delivered faxes.

Some of the. recipients of these faxes must know that what I say is true; and I hope to. motivate those people to acknowledge the reality of the harassment which has followed me for ten. years. It takes much time to transmit these articles, but as OCG MD. Simpson-Wells said to me in 1992, you have to be a good communicator if you are. to succeeed.

Harassment in. February 2000

Following a quiet period of almost five months, the persecution. resumed with a vengeance in late January/February 2000. At. this time I was at home in Clapham, London and was a relatively easy. target for the persecutors.. They have my house bugged, for audio and I believe video in some rooms. as well; so they can find out easily where I will be going on a particular day, and place people in that location to mouth words. of abuse at me. (I know the last sentence sounds. like classic paranoia, but it happens to be. true, and some of the people reading this know it to be true.)

On Friday 11 February 2000 I went shopping. in Croydon, to buy a watch at H. Samuels jewellers. in the Whitgift Centre. While I was there two youths came into the shop, one of them quietly. uttered an obscenity at me, and they immediately walked out. They showed no interest in. the shop.

That Sunday I. met with a friend in Clapham, who started needling me about "do you know anything about the CIA and FBI?".. Rather unsubtle, and worrying considering Ive known this guy for 20 years. From the words. and demeanour of this "friend". and others in February, I saw that the persecutors have again been trying to separate from me what. remains of my social. life.

Incidents in my Road. in February

MI5. very rarely place people in my home road to harass me, but such was their persecutory. fervour in February that they did so on three separate occasions. On the first such occasion, I. was met my two youths who, grinning, said a deeply offensive sexual obscenity at me - at which. I coughed at them, so they called me a "wanker".. This incident is safely recorded on minidisc-walkman, but. because of the offensive nature of their abuse. the recording will not be made public.

Another incident very early. in the morning of Sunday 20/Feb/2000 occurred outside my. home, following an evening in Croydon with some schoolfriends. Again. there were two youths - for some reason the persecutors always travel in twos or threes, very rarely is there. just one of them. - perhaps they need a group to bolster their courage, perhaps just one of them wouldnt have the guts to say. something unpleasant. One of the youths said quietly,. and bitterly, "shitty, very shitty".

Anyway, in. March there were no further incidents near my house in in my road, and our neighbours are very well disposed towards us,. so let us hope that. the current quiet continues.

13936

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDem

```
From -3863291961327971606
X-Google-Thread: fc2a5,d3bb29cc1006b7a4,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Holger Doerschel <newsgroups@pt100.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: is Communication Concepts Inc. still alibe
Date: Mon, 31 Dec 2007 15:29:03 +0100
Lines: 9
Message-ID: <5tsclfF1eqs0qU1@mid.individual.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net fQmj9+tOG5jgnnp+beySGA4TFJR8baHZtZ0DZi+FMD8b67J8Cg
Cancel-Lock: sha1:fixg8Q75FXTN6Ui+OFx7PH1jYC8=
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:14950

Hello,

I wan't to by all available parts for the eb104 amplifier an so I wrote some
E-mails to cci.dayton@pobox.com. But I got no answer. Is the Company still
alive?

regards

Holger / DL9HDA


From 419951418139248363
X-Google-Thread: fc2a5,d3bb29cc1006b7a4
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Holger Doerschel <newsgroups@pt100.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: is Communication Concepts Inc. still alibe
Date: Mon, 31 Dec 2007 15:31:06 +0100
Lines: 18
Message-ID: <5tscpaF1eq977U1@mid.individual.net>
References: <5tsclfF1eqs0qU1@mid.individual.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Trace: individual.net 9Jq3t1QTMbkXJBgjhUYtlANOPxLn51wWtHu9YiULBun92KNnBO
Cancel-Lock: sha1:13Z1rzTuoN/QwpWS9R3YHUMV3dw=
User-Agent: KNode/0.10.4
Xref: g2news1.google.com rec.radio.amateur.homebrew:14951
```

```
Holger Doerschel wrote:

> Hello,
>
> I wan't to by all available parts for the eb104 amplifier an so I wrote
> some E-mails to cci.dayton@pobox.com. But I got no answer. Is the Company
> still alive?
>
> regards
>
> Holger / DL9HDA


Damn, just in this second I got an answer from cci!

regards

Holger / DL9HDA



From 1616468389979389029
X-Google-Thread: fc2a5,d3bb29cc1006b7a4
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!volia.net!news2.volia.net!feed-
A.news.volia.net!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: is Communication Concepts Inc. still alibe
Date: 31 Dec 2007 16:06:50 GMT
Lines: 15
Message-ID: <slrnfni4sq.1sbi.bit-bucket@shell.config.com>
References: <5tsclfF1eqs0qU1@mid.individual.net>
<5tscpaF1eq977U1@mid.individual.net>
X-Trace: individual.net eI+xRSrNHiwcpxmv2abYHQ9YTNgmcGjQYFyUJ8vvrV0aUEI2Zn
Cancel-Lock: sha1:3NSx6Q3PLih4vbrrAAXfhRhIC3E=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14952

On Mon, 31 Dec 2007 15:31:06 +0100, Holger Doerschel wrote:
> Holger Doerschel wrote:
>
>> I wan't to by all available parts for the eb104 amplifier an so I wrote
>> some E-mails to cci.dayton@pobox.com. But I got no answer. Is the Company
>> still alive?
>
> Damn, just in this second I got an answer from cci!

Well, yes, OM -- it is, after all, Christmas / New Years  and very
little gets done, or is done VERY slowly  in the workplace over here.
HI!HI!
```

GNJ
Jonesy W3DHJ

```
From 5406136719078744987
X-Google-Thread: 10cf58,c22b6a58a0bd49d9,start
X-Google-Thread: 115730,c22b6a58a0bd49d9,start
X-Google-Thread: fb1f8,c22b6a58a0bd49d9,start
X-Google-Thread: fc2a5,c22b6a58a0bd49d9,start
X-Google-Thread: 112d1e,c22b6a58a0bd49d9,start
X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!v4g2000hsf.googlegroups.com!not-for-
mail
From: mad.scientist.jr@gmail.com
Newsgroups: rec.audio.pro, sci.electronics.equipment, rec.audio.tech,
     rec.radio.amateur.homebrew, sci.electronics.design
Subject: inexpensive analog audio pitch (frequency?) meter or schematic /
     plans for one?
Date: Mon, 31 Dec 2007 10:43:49 -0800 (PST)
Organization: http://groups.google.com
Lines: 19
Message-ID: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
NNTP-Posting-Host: 12.150.126.82
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1199126630 19871 127.0.0.1 (31 Dec 2007 18:43:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 31 Dec 2007 18:43:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v4g2000hsf.googlegroups.com; posting-host=12.150.126.82;
     posting-account=-2IdOAoAAAAuP4BOZLSw5XYf09oEsr3h
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.audio.pro:177280 sci.electronics.equipment:9896
rec.audio.tech:39890 rec.radio.amateur.homebrew:14953
sci.electronics.design:309107
```

I am looking for an inexpensive (hopefully $20 or less) analog meter

one with a moving needle like this
http://en.wikipedia.org/wiki/Image:VU_Meter.jpg

that I can plug my computer's sound card into (actually two meters, one for the right speaker, one for the left), that will read the pitch of the audio being played.

I know that a given sound has a fundamental tone and overtones, and it would have to detect the fundemantal tone (like a guitar tuner). The audio source would be a MIDI program, so if necessary I could use samples of a very simple waveform (ie Sine, square, etc) if that would eliminate overtones and make pitch detection more accurate.

Does anyone know if such a meter exists or where to find plans to build one?

Thanks.

```
From -2816335989068594243
X-Google-Thread: fcc6e,c9957deeee093675,start
X-Google-Thread: f7653,c9957deeee093675,start
X-Google-Thread: 108122,c9957deeee093675,start
X-Google-Thread: fc2a5,c9957deeee093675,start
X-Google-Thread: 107ada,c9957deeee093675,start
X-Google-Attributes: gidfcc6e,gidf7653,gid108122,gidfc2a5,gid107ada,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.alt.net
From: vmvfvei@gmail.com
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipme
nt,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: M.I,5-Persecution  ` th e B BC, television  a nd radio
Followup-To:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipme
nt,rec.radio.amateur.homebrew,rec.radio.amateur.misc,uk.misc
Date: Tue, 1 Jan 2008 08:28:11 +0000 (UTC)
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 62
Message-ID: <dy0800010828106348@4ax.com>
Xref: g2news1.google.com rec.radio.amateur.antenna:52518
rec.radio.amateur.digital.misc:1001 rec.radio.amateur.equipment:13699
rec.radio.amateur.homebrew:14954 rec.radio.amateur.misc:42923
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```
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
-= the BBC, television and. radio -=
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
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The first incident in June 1990 was when. a BBC newsreader made what seemed to be a reaction to something which had happened in my. home, and out of context. of what they were reading. My first reaction was disbelief; nothing of the sort had. ever happened before, the idea that such a thing could occur had not crossed. my mind, yet there was no doubt of what had just taken place. My disbelief eroded. as this recurred time after time. Besides the news, offenders included. shows such as Crimewatch (!), Newsnight, and "entertainment" shows. There seems to be very. little moral understanding among the people who make these programmes; they just. assume they will never be caught, so they carry on without. a thought for the illegality or amorality of what they do. The only time I ever. heard a word raised in doubt was by Paxman being. interviewed by someone else (I think by Clive Anderson). back in 1990; referring to the "watching" he said it troubled him, and when asked by the host. what you could do about it, replied "Well, you could just switch. it off" (meaning the surveillance monitor in the studio).. He clearly didn't let his doubts stand in the way of continued surreptitious. spying from his own or other people's shows, though.

Now you're convinced this is a troll, aren't you?. This story has been the subject. of much debate on the uk.* Usenet newsgroups for over a year, and some readers believe it. to be an invention (it has even been suggested that a group of psychology students. are responsible!), others think it symptomatic of a. derangement of the author, and a few give it credence. Quite a few people. do know part or all of the story already, so this text will fill in the gaps in their knowledge. For. the rest, what may persuade you of the third possibility is that some of the. incidents detailed are checkable against any archives of radio and TV. programmes that exist; that the incidents involve named people (even if. those hiding in the shadows have. not made their identity or affiliations evident), and those people may be persuaded to come out with the truth; and that. the campaign of harassment is continuing today both in the. UK and on the American continent, in a none-too-secret fashion; by. its nature the significant risk of. exposure increases with time.

On several occasions people. said to my face that harassment from the TV was happening. On the first day I worked in Oxford, I spent the evening. in the local pub with the. company's technical director Ian, and Phil, another employee. Ian made a few references to me and said to Phil,. as if in an aside, "Is he the bloke who's been on TV?" to. which Phil replied, "Yes, I think. so".

I made a number of efforts to find the bugs,. without success; last year we employed. professional counter-surveillance people to scan for bugs (see later) again. without result. In autumn 1990 I disposed of my TV and watched virtually no television for the. next three years. But harassment from TV stations has gone on for over. six years and continues to this day. This is something that many people. obviously know is happening; yet the TV staff have. the morality of paedophiles, that because they're getting away with it they feel no. wrong.

Other people who were involved in the abuse. in 1990 were DJs on BBC radio stations, notably disc jockeys from Radio 1 and other. stations (see the following section). Again, since they. don't have sense in the first place they can't be. expect to have the moral sense not to be part of criminal harassment.

553

```
From 2849488036709730242
X-Google-Thread: fcc6e,73110f6c125b0766,start
X-Google-Thread: f7653,73110f6c125b0766,start
X-Google-Thread: 108122,73110f6c125b0766,start
X-Google-Thread: fc2a5,73110f6c125b0766,start
X-Google-Thread: 107ada,73110f6c125b0766,start
X-Google-Attributes: gidfcc6e,gidf7653,gid108122,gidfc2a5,gid107ada,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out02b.usenetserver.com!
```

news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news.alt.net
From: emfvm@gmail.com
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: M'I`5'Persecutio n , bugging and count er-surveillance
Followup-To:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,uk.misc
Date: Tue, 1 Jan 2008 08:55:10 +0000 (UTC)
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 46
Message-ID: <wr0800010855093205@4ax.com>
Xref: g2news1.google.com rec.radio.amateur.antenna:52519
rec.radio.amateur.digital.misc:1002 rec.radio.amateur.equipment:13700
rec.radio.amateur.homebrew:14955 rec.radio.amateur.misc:42924

-=-

-= MI5: bugging and. counter-surveillance -=

-=-

PO: >Did you ever look for the bugs in your house ? If not, why not ? I. mean if
PO: >I thought that was happening. to me, I'd search the place from top to bottom,
PO: >I mean I live there I would know if anything. was out of place. If I was
PO: >really suspicious, I would call in one of those bug. detection teams which
PO: >have those machines that pick up the transmitted. radio waves. This
PO: >reminds me of. BUGS, that new programme on BBC1 on

That's exactly what we did. We went to a competent, professional. detective agency in London, paid them over 400 quid to debug our. house. They used scanner devices which go to over 1 GHz and would pick. up any nearby transmitter in that range, they also checked the. phones and found nothing... but if the tap was at the exchange,. then they wouldn't find anything, would. they?

CS: >Doesn't this suggest to you that. there are, in fact, no bugs to be found?

You can assume that they've done this sort. of thing to other people in more "serious" cases, where. they would know the targets would suspect the presence of electronic surveillance. So. they will have developed techniques and devices which are. not readily detectable either by visual inspection or by electronic means. What those techniques might be, I couldn't. guess.

In this case, the existence of. bugging devices was clear from the beginning, and they "rubbed it in" with what was said. by the boy on the coach. It was almost as if they. wanted counter-surveillance people to be called in, who they. knew would fail to detect the bugging devices, causing loss of credibility. to the other things I would have to say relating to the harassment.

I did all the things someone in my situation would do to try to. find the bugs.. In addition to calling in professional help using electronic counter-surveillance, I made a. close visual inspection of electrical equipment,. plus any points where audio or video surveillance devices might have been concealed. Of. course, I found nothing. Normal surveillance "mini-cameras" are quite noticeable and. require visible supporting circuitry. It seems to me the best. place to put a small video surveillance device would be additional to a piece of electronic equipment. such as a TV or video. It would be necessary. to physically break in to a property to fit such. a device.

2983

```
From -2995789116266959925
X-Google-Thread: fcc6e,ed3d8c53d13340df,start
X-Google-Thread: f7653,ed3d8c53d13340df,start
X-Google-Thread: 108122,ed3d8c53d13340df,start
X-Google-Thread: fc2a5,ed3d8c53d13340df,start
X-Google-Thread: 107ada,ed3d8c53d13340df,start
X-Google-Attributes: gidfcc6e,gidf7653,gid108122,gidfc2a5,gid107ada,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out02b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news.alt.net
From: evmvfe@gmail.com
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipme
nt,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: M I-5 P ersecution ' Capit al Ra dio - Chr is Tar rant
Followup-To:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipme
nt,rec.radio.amateur.homebrew,rec.radio.amateur.misc,uk.misc
Date: Tue, 1 Jan 2008 09:21:39 +0000 (UTC)
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 37
Message-ID: <yb0800010921394481@4ax.com>
Xref: g2news1.google.com rec.radio.amateur.antenna:52520
rec.radio.amateur.digital.misc:1003 rec.radio.amateur.equipment:13701
rec.radio.amateur.homebrew:14956 rec.radio.amateur.misc:42925
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-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-

-= Capital Radio. - Chris Tarrant -=

-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-

Capital Radio. DJs have been "in on it" from the start. One of the first things I heard in the summer of 1990 was from a Capital DJ who said,. "If he listens to Capital then he can't be all. bad" (supportive, you see. We're not bastards). Much of what came over the radio in 1990 is now. so far away the precise details have been obliterated by time.. No diary was kept of the details, and although archives if. they exist may give pointers, the ambiguity of. what broadcasters said would leave that open to re-interpretation.

In spring 1994, Chris Tarrant. on his Capital morning show made an aside to someone else in the. studio, about a person he didn't identify. He said, "You know this bloke? He. says we're trying to kill him. We should be done for attempted. manslaughter".

That mirrored something I had said. a day or two before. What Tarrant said was understood by the staff member. in the studio he was saying it to; they said, "Oh no,. don't say that" to Tarrant. If any archives exist of the morning show (probably unlikely) then it. could be found there; what he said was. so out of context that he would be very hard put to find an explanation. A couple of days later, someone at the site where I was working repeated. the remark although in a different way; they said there. had been people in a computer room when automatic. fire extinguishers went off and those people were "thinking of suing for. attempted manslaughter".

Finally, this isn't confined to the established radio stations. In. 1990 after I had listened to a pirate radio station in South. London for about half an hour, there was an. audible phone call in the background, followed by total silence for a few moments, then shrieks of. laughter. "So what are we supposed to say now? Deadly. torture? He's going to talk to us now, isn't he?", which meant that they. could hear what I would say in my room.

5413

From -7081066615861878522
X-Google-Thread: fcc6e,2b8c708d33646d59,start
X-Google-Thread: f7653,2b8c708d33646d59,start
X-Google-Thread: 108122,2b8c708d33646d59,start
X-Google-Thread: fc2a5,2b8c708d33646d59,start
X-Google-Thread: 107ada,2b8c708d33646d59,start
X-Google-Attributes: gidfcc6e,gidf7653,gid108122,gidfc2a5,gid107ada,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04b.usenetserver.com!news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news.alt.net
From: imivei@gmail.com
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: M.I 5`Pers ecution - cost of th e oper ation
Followup-To: rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,uk.misc
Date: Tue, 1 Jan 2008 09:47:47 +0000 (UTC)
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 48
Message-ID: <sb0800010947461431@4ax.com>
Xref: g2news1.google.com rec.radio.amateur.antenna:52521 rec.radio.amateur.digital.misc:1004 rec.radio.amateur.equipment:13702 rec.radio.amateur.homebrew:14957 rec.radio.amateur.misc:42926

-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
-=. MI5: cost of the operation -=
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=

Here's what a couple of other people on. Usenet (uk.misc) had to say regarding the cost of. running such an operation...

PO: >Have some sense, grow up and smell reality. What you are. talking about
PO: >would take loads of planning, tens of thousands of pounds and. lots of
PO: >people involved in the planning, execution and. maintenance of it. You
PO: >must have. a very high opinion of yourself to think you are worth it.

PM: >But why? And why you? Do you realize. how much it would cost to keep
PM:. >one person under continuous surveillance for five years? Think about
PM: >all. the man/hours. Say they _just_ allocated a two man team and a
PM: >supervisor. OK., Supervisor's salary, say, #30,000. a year. Two men,
PM: >#20,000 a year each. But they'd need to work in shifts --. so it would
PM:. >be six men at #20,000 (which with on-costs would work out at more like
PM: >#30,000 to the. employer.)
PM:. >
PM: >So, we're talking #30,000 x. 6. #180,000. plus say, #40,000 for the
PM: >supervisor. #220,000. Then you've got the. hardware involved. And
PM: >any transcription that needs doing. You don't. think the 'Big Boss'
PM:. >would listen to hours and hours of tapes, do you.
PM:. >
PM:. >So, all in all, you couldn't actually do the job for much less than
PM: >a quarter million a year. Over five years. What are you doing that. makes
PM: >it worth. the while of the state to spend over one and a quarter million
PM: >on. you?

Those are pretty. much the sort of calculations that went through my head once I stopped to consider what. it must be costing them to run this operation.. The partial answer is, there have been periods when the intensity has. been greater, and times when little has happened. In fact, for much of. 1993 and the first half of 1994, very little happened. Although I don't think that was. for reasons of money - if they can tap into the taxpayer they're not going to. be short of resources, are they?

The more. complete answer is in the enormity of what they're doing. Relative to the cost. to British pride of seeing their country humiliated for the persecution of their own citizens, isn't is worth the cost of. four or five people to try to bring things to a close in. the manner they would wish? To the government a million or two is quite honestly. nothing - if they can convince. themselves of the necessity of what they're doing, resources will not be the limiting. factor.

7843

From 8918860641657003781
X-Google-Thread: fcc6e,9bca369c75e4ea0f,start
X-Google-Thread: f7653,9bca369c75e4ea0f,start
X-Google-Thread: 108122,9bca369c75e4ea0f,start
X-Google-Thread: fc2a5,9bca369c75e4ea0f,start
X-Google-Thread: 107ada,9bca369c75e4ea0f,start

X-Google-Attributes: gidfcc6e,gidf7653,gid108122,gidfc2a5,gid107ada,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04b.usenetserver.com!news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news.alt.net
From: fievmemfm@gmail.com
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: M,I`5 Persecu tion   h ow an d w hy di d it s tart?
Followup-To: rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,uk.misc
Date: Tue, 1 Jan 2008 10:17:43 +0000 (UTC)
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 46
Message-ID: <pk0800011017424756@4ax.com>
Xref: g2news1.google.com rec.radio.amateur.antenna:52522 rec.radio.amateur.digital.misc:1005 rec.radio.amateur.equipment:13703 rec.radio.amateur.homebrew:14958 rec.radio.amateur.misc:42927

-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
-= how. and why did it start? -=
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-

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>prognosis: that maybe he. is right and that, despite his admitted
>mental condition, there really is a campaign against him. organised by
>now-influential ex-students of his. university.

In May or. June 1990, Alan Freeman on Radio 1 read out a letter from someone who had. known me for a few years, who wrote of the one who "wore out his welcome with random precision" (from the. Pink Floyd song). Freeman went on to say to the writer "that's. a hell of a letter you wrote there". The indication. is strongly that people I had parted from soon before nursed a grudge against me and were trying to cause trouble for. me.

The suggestion is. that Freeman might have shown the letter to other people, and things could have snowballed from there. Right. from the start the real source. (security services presumed) didn't announce themselves as the origin, but let the "talkers", the radio DJs, believe that. they were the originators. Think about it; if you announce,. "we're MI5 and we have a campaign against this bloke" then people. might not go along with it; but if you say, "everyone else is. getting at this bloke because he 'deserves' it" then people will join in. with fewer qualms.

>Why would "they" wish to. assassinate your character?

It's the classic case of hitting a cripple to prove you're stronger.. Why would the security. services expend hundreds of thousands of pounds and more than six years of manpower to try to kill. a British citizen? Because they are motivated by people who knew me at university. and feel personal animosity; because they knew me to be emotionally. weak, and it is in the nature of bullies to prey on those. known to be weak; and because they can rely on the complicity of the. establishment, which the security services manipulate and derive funding from. This. is England's biggest humiliation today, and the British security services are intent on preventing. their humiliation. becoming reality by continuing their campaign of attempted murder to suppress the truth from. becoming public.

10273

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rec.radio.amateur.homebrew:14959 rec.radio.amateur.misc:42928

-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
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-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-

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553

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rec.radio.amateur.homebrew:14960 rec.radio.amateur.misc:42929
```

-=-=-=-=-=-=-=-=-=-=-=-
-= who knows. about it? =-
-=-=-=-=-=-=-=-=-=-=-=-

Many people know, both in the. establishment and media, and among the general public. Despite an absence of its target from the. UK for more than two. years, the echoes of paranoia can still be heard loud and clear from across the water. When it started in 1990,. the only people who knew were those. in BBC television who were spying on my home, and a few radio broadcasters. There were a few cases of public harassment, but. very little compared to the situation that developed a. couple of years later.

The list today includes BBC TV staff (newsreaders such as. Martyn Lewis, Michael Buerk, Nicholas Witchell), people from radio stations. such as Chris Tarrant of Capital and. Radio 1 DJs, people in the print media, but also many people in the general public. All united. in a conspiracy which breaks the laws which the UK does have regarding. harassment, and all completely uncaring for any semblance of. decency or elementary respect for individual. rights.

The. British police (obviously) do know the nature of the harassment and in all probability the identity of those behind it.. Some time ago I made a complaint to my local police station in London, without. positive result. The UK police are failing in their duty to see the law enforced in. not checking. the abuse.

2983

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From: iveifmviv@gmail.com
Newsgroups:
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Followup-To:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,uk.misc
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rec.radio.amateur.homebrew:14961 rec.radio.amateur.misc:42930

The article of which part is reproduced below was penned by. Bernard Levin for the. Features section of the Times on 21 September 1991. To my mind, it described the situation at the time and in particular. a recent meeting with a. friend, during which I for the first time admitted to someone other than my GP that I had been subjected to a conspiracy of harassment. over the previous year and a. half.

>There is a madman running. loose about London, called David Campbell; I have
>no reason to believe that he. is violent, but he should certainly be
>approached with caution.. You may know him by the curious glitter in his
>eyes and a persistent trembling of his hands; if. that does not suffice, you
>will find him attempting to thrust no fewer than. 48 books into your arms,
>all hardbacks, with a promise that, if you should return. to the same
>meeting-place next year, he will heave. another 80 at you.
>
>If, by now, the. police have arrived and are keeping a close watch on him,
>you may feel sufficiently emboldened to examine the. books. The jackets are
>a model of. uncluttered typography, elegantly and simply laid out; there is
>an unobtrusive colophon of a rising sun, probably not picked. at random.
>Gaining confidence - the. lunatic is smiling by now, and the policemen, who
>know about such things, have significantly removed their helmets. - you
>could do worse than take the jacket off. the first book in the pile. The
>only word possible to describe the binding. is sumptuous; real cloth in a
>glorious shade of dark green, with. the title and author in black and gold
>on. the spine.
>
>Look at it more closely; your eyes do not deceive you -. it truly does have
>real top-bands and tail-bands, in. yellow, and, for good measure, a silk
>marker ribbon in a lighter green. The paper is cream-wove. and acid-free,
>and. the book is sewn, not glued.
>
>Throughout the encounter, I should have. mentioned, our loony has been
>chattering away, although. what he is trying to say is almost impossible to
>understand; after a time,. however, he becomes sufficiently coherent to make
>clear that he. is trying to sell the books to you. Well, now, such quality
>in bookmaking today can only be for. collectors' limited editions at a
>fearsome. price - #30, #40, #50?
>

>No,. no, he says, the glitter more powerful than ever and the trembling of his hands rapidly spreading throughout his entire body; no,. no - the books are priced variously at #7, #8 or #9, with the. top price #12.
>
>At this, the policemen understandably put their helmets back on;. one of them draws his truncheon and the other can be heard. summoning reinforcements on his walkie-talkie. The madman bursts into tears,. and swears it. is all true.
>
>And. it is.
>
>David Campbell has acquired the entire rights to the whole. of the Everyman's Library, which died a lingering. and shameful death a decade or so ago, and he proposes to start it. all over again - 48 volumes this September and 80 more next year, in. editions I have described, at the prices specified. He proposes to launch his. amazing venture simultaneously in Britain and the United States, with. the massive firepower of Random Century at. his back in this country, and the dashing cavalry of Knopf across the water, and no one who loves literature and courage. will forbear to. cheer.

At the time this article. was written I had believed for some time that columnists in the Times and other journalists. had been making references to my situation. Nothing unusual about this you may think, plenty of. people have the same sort of ideas and obviously the papers aren't writing. about them,. so why should my beliefs not be as false as those of others?

What. makes this article so extraordinary is that three or four days immediately. preceding its publication, I had a meeting with a friend, during the course of which we discussed. the media persecution, and in particular that by Times columnists. It seemed to me,. reading the article by Levin. in Saturday�s paper, that he was describing in some detail his "artist�s impression" of that meeting. Most. telling are the final sentences, when he writes, "The madman bursts into. tears, and swears it is all true. And it is." Although I did. not "burst into tears" (he seems to be using a bit of poetic licence. and exaggerating) I did try hard to convince my friend that it was. all true; and I am able to concur with Mr Levin, because, of course, it. is.

At the beginning of the piece Levin reveals a fear of being attacked. by the "irrational" subject of his story, saying. "I have no reason to believe that he is violent,. but he should certainly be approached with caution". This goes back to the xenophobic propaganda. of "defence" against a "threat" which was seen at the very beginning of the harassment. The. impression of a "madman running loose" who needs to. be controlled through an agency which assigns to itself the. mantle of the "police" is also one which had been expressed. elsewhere.

In the. final paragraph of this extract, his reference to Everyman�s Library as. having "died a lingering and shameful death a decade or so ago" shows clearly what sort of conclusion they wish to their campaign. They. want a permanent solution, and as. they are prevented from achieving that solution directly, they waste. significant resources on methods which have been repeatedly shown. to be ineffective for such a purpose.

5413

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Subject: M`I'5`Persecut ion . Be rnard Lev in expresse s his views
Followup-To:
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rec.radio.amateur.homebrew:14962 rec.radio.amateur.misc:42932

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>
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>
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553

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rec.radio.amateur.homebrew:14963 rec.radio.amateur.misc:42933
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-=-

-=. why won't the British police do their job and put a stop to it? -=

-=-

The. British police obviously do know what is taking place. Besides my interpretations of what individual. officers have said which forces that conclusion, it would be. inconceivable for them to be unaware of something on this. scale.

If they know, then they will know that the. abusers have broken laws in the UK and abroad. Recently the UK. introduced laws against electronic spying which carry a penalty of several years jail if. caught. If the police know illegal harassment. is taking place, and do nothing about it, then they are failing in. their responsibilities.

Last Easter (1995) I went into the. local police station in London and spoke to an officer about. the harassment against me. But I couldn't provide tangible. evidence; what people said, in many cases years ago, is beyond proof, and without something to support my statements I cannot. expect a police officer to take the complaint. seriously.

The current situation with regard to the police is not. one which allows a breakthrough in dealing with the. problem. On the one hand, most individual officers at a local police station may. not know about the ongoing assaults, so a complaint at that level will not yield results.. Yet the police as an organisation do know of the harassment, and they must. be aware that a complaint has been made at a police station. So it. is clearly their duty to take preventative action. against the continuing molestation, but because the criminals are operating on. behalf of a state agency, the police are not carrying. out their duty.

2983

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d pu t a st op to it ?
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-=-
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-=-

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Last Easter (1995) I went into the. local police station in London and spoke to an officer. about the harassment against me. But I couldn't provide tangible evidence; what people. said, in many cases years ago, is beyond proof, and without something to support my. statements I cannot expect a police officer to take. the complaint seriously.

The current situation with regard to the. police is not one which allows a breakthrough in dealing with the problem.. On the one hand, most individual officers at a local police station may not know. about the ongoing assaults, so a complaint at that level will not yield results. Yet the. police as an organisation do know of the harassment, and. they must be aware that a complaint has. been made at a police station. So it is clearly their duty to take preventative action against the. continuing molestation, but because the criminals are operating on. behalf of a state agency, the police are not carrying. out their duty.

553

From 6800902804934749739
X-Google-Thread: fcc6e,775db0caef452e91,start
X-Google-Thread: f7653,775db0caef452e91,start
X-Google-Thread: 108122,775db0caef452e91,start
X-Google-Thread: fc2a5,775db0caef452e91,start
X-Google-Thread: 107ada,775db0caef452e91,start
X-Google-Attributes: gidfcc6e,gidf7653,gid108122,gidfc2a5,gid107ada,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.alt.net
From: ifvmifivi@gmail.com
Newsgroups:

rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: M I.5'Pers ecution , wh y won 't t he British pol ice do t heir job and p ut a st op to it ?
Followup-To:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,uk.misc
Date: Tue, 1 Jan 2008 14:11:37 +0000 (UTC)
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 33
Message-ID: <no0800011411367738@4ax.com>
Xref: g2news1.google.com rec.radio.amateur.antenna:52531
rec.radio.amateur.digital.misc:1012 rec.radio.amateur.equipment:13710
rec.radio.amateur.homebrew:14965 rec.radio.amateur.misc:42935

-=-
-= why won't the. British police do their job and put a stop to it? -=
-=-

The British. police obviously do know what is taking place. Besides my interpretations of. what individual officers have said which forces that conclusion, it would be inconceivable for them. to be unaware of something on this. scale.

If they know, then they. will know that the abusers have broken laws in the UK and. abroad. Recently the UK introduced laws against electronic spying which carry a penalty of several years jail if caught.. If the police know illegal harassment is taking place, and do nothing. about it, then they are failing in. their responsibilities.

Last Easter (1995) I went into the local. police station in London and spoke to an officer about the harassment against me. But I couldn't. provide tangible evidence; what people said, in. many cases years ago, is beyond proof, and without something. to support my statements I cannot expect a police officer. to take the complaint seriously.

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553

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X-Google-Thread: fc2a5,13330e3ab471ff1d,start
X-Google-Thread: 107ada,13330e3ab471ff1d,start
X-Google-Attributes: gidfcc6e,gidf7653,gid108122,gidfc2a5,gid107ada,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.alt.net
From: mifmfivi@gmail.com
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipme
nt,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: M-I'5-Per secution . abu se in set-u p situatio ns and  in publ ic
Followup-To:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipme
nt,rec.radio.amateur.homebrew,rec.radio.amateur.misc,uk.misc
Date: Tue, 1 Jan 2008 14:40:09 +0000 (UTC)
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 106
Message-ID: <xq0800011440082190@4ax.com>
Xref: g2news1.google.com rec.radio.amateur.antenna:52533
rec.radio.amateur.digital.misc:1013 rec.radio.amateur.equipment:13711
rec.radio.amateur.homebrew:14966 rec.radio.amateur.misc:42936
```

-=-
-= abuse in set-up situations and in. public -=
-=-

Strangers in the street. have recognized me on sight many times, and shown awareness. of the current thread of abuse. To give you one example, in 1992 I was seriously ill, and a manager at work somewhat. humorously said that "it wasn't. fair" that people were bullying me. A few days later, I attended for the first time a clinic in London as an outpatient,. and on my way out was accosted by someone. who asked if "they had paid my fare", with emphasis on the. word "fare". He repeated the word several times in this different context; that they should have paid my "fare", each time. emphasizing the word.

For two and a half years from the time their harassment started. until November. 1992 I refused to see a psychiatrist, because I reasoned that I was not. ill of my own action or fault, but through the stress caused by harassment, and that. a lessening of the illness would have to be consequent to a removal of its immediate cause, in other words a cessation. of harassment. I also reasoned that. since they were taunting me with jokes about mental illness, if I were. to seek treatment then the abusers would think that they had "won" and been proved "right". Remember,. the constant theme of any persecution is, "we must destroy you because. you're X", whether X is. a racial or other attribute. In this case the X was "we persecute. you because you have brain disease". The similarity of this logic to Nazi attitudes. to the mentally ill is striking.

The same. manager who'd said "it wasn't fair" asked me in winter 1992 why I didn't seek help from a. psychiatrist; was it, he asked, because "they would think they. had won" if I sought treatment? That was something I'd never said at work... again, taken separately it proves. nothing, but many such things over. a period of months proves conclusively that people in the company knew what was going on, and in quite. a lot of detail.

Usually harassment. in public lacks the level of finesse of "paying your fare". Most people's imagination does. not go beyond moronic parroting of the. current term of denigration. That is not surprising given the average level of the abusers; if they do not have. the intelligence to distinguish wrong from right then neither will they have the. capacity for anything other. than mindless repetition of a monosyllabic term calculated to fit into their. minds.

The first incidents of verbal assault. in public were in again in the summer of 1990, although they increased in frequency and venom with. time. In July 1990 the first public incident occurred on. a tube train on the Northern line. Two men and their girlfriends recognised me; the women sprang to. my defence,. saying "He looks perfectly normal, he doesn't look ill". Their boyfriends of course knew better, and followed the party line;. one of them made reference to. an "operation", apparently to work at the tube station but implicitly to a visit that I had. made to hospital a couple of weeks previously.

In August 1990 going home from college, soon after getting on. a tube train at Gloucester Road I was followed. by a group of four youths, who started a chant of abuse. That they were targeting me was confirmed by. other people in the carriage, one of whom asked the. other "who are they going on at, is it the bloke who just got on?" to which the second replied "yes,. I think so". I was tempted to reply, but as. in every other instance the abusers are enabled. in their cowardice by physically outnumbering the abused; any confrontation would result in my being beaten up, followed by. a complaint to the police that "he. attacked us", and of course he's ill, so he must have been imagining that we were getting at him. Shitty,. aren't they?

But the shittiness of the four youths on the tube train is. as nothing compared to the episode on the National Express. coach to Dover in the summer of 1992.. While going on holiday to the Continent I was verbally set upon by a couple. travelling sitting a few rows behind. The boy did the talking, his female companion contributing only a continuous. empty giggling noise. He spoke loudly to ensure other people. on the coach heard, always about "they" and "this bloke". but never naming either the abusers or the person he was talking about. He. said "they" had "found somebody from his school, and he was always really stressed. at school". They must have dug deep to find enemies there; perhaps someone who dropped. out of school, someone who didn't do too well later, who was jealous and. keen to get their own back? The boy also said "he was in. a bed and breakfast for only one night and they got him".. By a not unexpected coincidence I had been in a B&B in Oxford a week previously, which had been booked from work;. other things lead me to the conclusion that the company's. offices were bugged for most of the 2 1/2 years. that I was there, so "they" would have known a room in the. B&B had been booked. (But I'll bet "they" didn't tell the company's managers their offices were. bugged, did they?).

After a few minutes of this I went back. to where they were sitting and asked where. they were travelling. The boy named a village in France, and the. girl's giggling suddenly ceased; presumably it permeated to her brain cell what the purpose of the boy's abuse. was.

This and other set-up situations are obviously calculated to. provoke a direct confrontation. which would bring in the police, with the abusers claiming that they were the. ones attacked. Again in 1992, outside the house where I was living in Oxford I was physically. attacked by someone - not punched, just grabbed by the coat, with some verbals. thrown in for good measure. That was something the people at work. shouldn't have known about... but. soon after a couple of people were talking right in front of me about, "I heard he was attacked". The. UK police have a responsibility for preventing assault occurring, but they do not seem. to take any interest in meeting that responsibility.. I suppose their attitude is that harassment does not come within their remit unless it involves physical assault,. and they will only become involved once that happens. That is of course. quite the wrong attitude for them to take, but. as I now understand, the police investigate only the crime they wish to investigate; if they. do not take your complaints seriously then there is nothing you can do to. make them take. action.

2983

```
From -2729734909916082142
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X-Google-Attributes: gidfcc6e,gidf7653,gid108122,gidfc2a5,gid107ada,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.alt.net
From: mefimvm@gmail.com
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipme
nt,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: M I-5 Persecution  ' pu rpose in pu blicizing it ; cens orship in u k.*
news groups
Followup-To:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipme
nt,rec.radio.amateur.homebrew,rec.radio.amateur.misc,uk.misc
Date: Tue, 1 Jan 2008 15:12:28 +0000 (UTC)
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 45
Message-ID: <ot0800011512275431@4ax.com>
Xref: g2news1.google.com rec.radio.amateur.antenna:52535
rec.radio.amateur.digital.misc:1014 rec.radio.amateur.equipment:13712
rec.radio.amateur.homebrew:14967 rec.radio.amateur.misc:42937
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-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
-= purpose in publicizing it; censorship. in uk.* newsgroups -=
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
```

The postings to uk.misc newsgroup generated a very. defensive reaction from Usenet readers in the UK.. So much so, that they tried strenuously to suppress what was being said, both by breaking the rules. of netiquette in their responses on. the forum, and directly by action to revoke the account from which the. postings were issued.

Yet the postings were within the normal. boundaries of behaviour for uk.misc, and other less. partisan spectators did not see justice in the censorship which was. effected, as the following excerpt shows;

:Karen Lofstrom. (lofstrom@lava.net) wrote
:>It does seem that the frequency and the size. of his posts are
:>approaching net. abuse. However, IMHO, they aren't quite there yet. If
:>his postmaster were to act in this. instance, it would raise troubling
:>censorship. issues.

The inescapable conclusion. of the censorship effected on the uk.* newsgroups is that the British are. intent on their wrongdoing remaining concealed,. and therefore seek to subvert and suppress freedom of speech, not only in their. own country where the media shows xenophobic bias and bile against all perceived enemies. within and without, but also in other countries which have their own statutes to guarantee the. basic human right of. free speech.

It is absolutely necessary. to bring their hate campaign out into the open where it can be placed under scrutiny and the harassers seen for. what they are.. That is the only way of making it impossible for the security services to carry it out. There is a wider. dimension, though. Xenophobia as demonstrated by British people and institutions over the last few. years belongs to the same stable as racial hatred. In. one case, two youths on a Tube train made that racism explicit by referring to their. victim as a "soft. toy, not up to British Standards". Doubtless others victimize partly on the. basis of race (isn�t it odd that they chose to torment someone who is not ethnically English?) while. expressing their abuse in terms of another genetic attribute, namely mental illness.. All xenophobia on a genetic basis is wrong, but while racial insults are. illegal, abusing the mentally ill is neither against the law nor subject. to similar condemnation when it is. exposed.

5413

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X-Google-Thread: 107ada,5a94779155a5118,start
X-Google-Attributes: gidfcc6e,gidf7653,gid108122,gidfc2a5,gid107ada,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.alt.net

From: vfvmfvfe@gmail.com
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: M,I`5,Pe rsecution ' my respons e to th e h arassment
Followup-To:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,uk.misc
Date: Tue, 1 Jan 2008 15:40:10 +0000 (UTC)
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 46
Message-ID: <yl0800011540093875@4ax.com>
Xref: g2news1.google.com rec.radio.amateur.antenna:52536
rec.radio.amateur.digital.misc:1015 rec.radio.amateur.equipment:13713
rec.radio.amateur.homebrew:14968 rec.radio.amateur.misc:42939

-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
-= my response to the harassment. -=
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-

My first reaction in. 1990/91 was to assume that if I broke contact then they would not be able to follow and would lose interest. So. I did the things that have been. suggested by other people; I sold my television, stopped listening to the radio and tried to withdraw away. from the sources of abuse as much as possible.. I reasoned that they must have more important things to. deal with and that normal people would simply leave me alone if it were made difficult for them. to continue their harassment.

I reckoned without the sheer vindictiveness of. the abusers. They did not let. up but instead "got to" people around me, mainly people at work, to do their dirty work for them. I went to see my GP, who refused to believe. what he was being told, and. refused to direct me on to anyone who could be of practical assistance.. It was not until three years had passed that the GP admitted the matter was outside his competence and. suggested going to the police.

In the summer of 1994. we called in counter-surveillance experts from a private detective agency. to sweep our house and telephone for bugging devices. They conducted a thorough search and found nothing; but. as noted above, since the existence of surveillance was. being forced in my face by the harassers, you would expect them to have. taken the possibility of a counter-surveillance sweep into account. when planning the type of devices to be. employed.

In Easter 1995 I made. a complaint to my local Police station in London, but the police have. not expressed any intention to do anything about the continuing harassment ("we're not saying. it's happening and we're not saying it isn't happening" were the. words used). I think the officer I spoke to at. Easter wasn't aware of it happening, although other members of the police. force obviously do know.

From April. 1995 until the present time the matter has been discussed in a lot of detail on the Usenet (Internet) "uk.misc" newsgroup. That. discussion has given birth to the article which you. are now reading. My hopes in posting to Usenet were. that wider publicizing would discourage the security services from continuing. their harassment, and "draw people out" into concurring with the truth of what was being said. Neither. of those have followed, but the. discussion has served a purpose in allowing this structured report to be. created.

7843

```
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X-Google-Thread: 107ada,a7ac163b6113970f,start
X-Google-Attributes: gidfcc6e,gidf7653,gid108122,gidfc2a5,gid107ada,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.alt.net
From: ievimi@gmail.com
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipme
nt,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: M.I,5.Persecu tion - t heir metho ds an d tactics
Followup-To:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipme
nt,rec.radio.amateur.homebrew,rec.radio.amateur.misc,uk.misc
Date: Tue, 1 Jan 2008 16:07:56 +0000 (UTC)
Organization: Altopia Corp. - Usenet Access - www.altopia.com
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rec.radio.amateur.digital.misc:1016 rec.radio.amateur.equipment:13714
rec.radio.amateur.homebrew:14969 rec.radio.amateur.misc:42943
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-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
-=. MI5: methods and tactics -=
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=

They deliberately set out to harass in a way. that would resemble the symptoms of schizophrenia, so that any report of. the harassment would be taken as indicating. mental illness and "treated" accordingly. They never show their own faces; they only work through. proxies, in the media, among the public, and by manipulating people in the workplace.. Since they do not declare their identity there. is no evidence to initiate legal action against the security services or anyone else.. The only people you can prosecute are the. proxies and they will deny knowledge of any conspiracy.

By repeatedly humiliating and abusing the. victim, they induced mental illness. This is the worst. form of human rights violation: making any statement of. the harassment appear to be symptomatic of the illness which they cause through the. harassment. That this can happen, and people collude by. silence, is absolutely horrifying.

From the beginning in June 1990 they set a. pattern of harassment which they have followed without. change for the last six years. They paint me as a "threat" to which people. must "react" (shades of Nazi persecution methods), while simultaneously. portraying their hate campaign on which they have spent over a million. pounds of taxpayers� money as a "joke".

The. MI5 that breaks the law with the silent complicity of the police is the same agency that is. now seeking a role in the fight against crime. Perhaps the real joke is the proposed involvement in the. implementation of justice of an. organisation which commits criminal acts with secrecy and disinterest for. the legal process.

10273

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From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: Manuals: Collins, Halli etc +
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <LQvej.358224$kj1.56774@bgtnsc04-news.ops.worldnet.att.net>
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X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1199212971 f3721ad858862cec62c3d3c165642eb6 (Tue, 01 Jan 2008 18:42:51 GMT)
NNTP-Posting-Date: Tue, 01 Jan 2008 18:42:51 GMT
Organization: AT&T Worldnet
Date: Tue, 01 Jan 2008 18:42:51 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:14970

Take a look at original and used manuals: COLLINS, HALLICRAFTERS, MILITARY TM'S + other stuff too:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

73, Happy New Year, Heytubeguy

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From 1024799280127319499
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X-Google-Thread: fc2a5,c22b6a58a0bd49d9
X-Google-Thread: 112d1e,c22b6a58a0bd49d9
X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!s12g2000prg.googlegroups.com!not-for-
mail
From: whit3rd <whit3rd@gmail.com>
Newsgroups: rec.audio.pro, sci.electronics.equipment, rec.audio.tech,
     rec.radio.amateur.homebrew, sci.electronics.design
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic /
     plans for one?
Date: Tue, 1 Jan 2008 20:39:56 -0800 (PST)
Organization: http://groups.google.com
Lines: 11
Message-ID: <c1392b2b-ec5e-46f8-b751-0e77b3893656@s12g2000prg.googlegroups.com>
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1199248797 16403 127.0.0.1 (2 Jan 2008 04:39:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 2 Jan 2008 04:39:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s12g2000prg.googlegroups.com; posting-host=66.238.96.24;
     posting-account=vKQm_QoAAADOaDCYsqOFDAW8NJ8sFHoE
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; PPC Mac OS X; en)
     AppleWebKit/312.8.1 (KHTML, like Gecko) Safari/312.6,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.audio.pro:177454 sci.electronics.equipment:9918
rec.audio.tech:39955 rec.radio.amateur.homebrew:14971
sci.electronics.design:309544

On Dec 31 2007, 10:43=A0am, mad.scientist...@gmail.com wrote:
> I am looking for an inexpensive (hopefully $20 or less) analog meter
>
> ... that will read the pitch
> of the audio being played.
>

Phase-lock loops like 74HC4046 can lock onto an audio
frequency, and the follower in it has an output voltage
proportional to frequency.  That's about $0.60 from your budget;
a good analog moving-needle meter will suck up the rest of it.


From -4067117817323259085
X-Google-Thread: fcc6e,ef3a4e811da24953,start
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X-Google-Language: ENGLISH,ASCII
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news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news.alt.net
From: emfmf@yahoo.com
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipme
nt,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: M.I 5-Per secution ` thei r m ethods and  tactics
Followup-To:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipme
nt,rec.radio.amateur.homebrew,rec.radio.amateur.misc,uk.misc
Date: Wed, 2 Jan 2008 08:11:48 +0000 (UTC)
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 33
Message-ID: <sz0800020811463621@4ax.com>
Xref: g2news1.google.com rec.radio.amateur.antenna:52593
rec.radio.amateur.digital.misc:1018 rec.radio.amateur.equipment:13717
rec.radio.amateur.homebrew:14972 rec.radio.amateur.misc:42947
```

-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
-= MI5: methods and. tactics -=
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=

They deliberately set out to harass in. a way that would resemble the symptoms of schizophrenia, so that any report of the. harassment would be taken as indicating. mental illness and "treated" accordingly. They never show their. own faces; they only work through proxies, in the media, among the public, and by manipulating people in the workplace. Since they. do not declare their identity there is no evidence to. initiate legal action against. the security services or anyone else. The only people you can prosecute are the proxies and they will deny knowledge. of any conspiracy.

By repeatedly humiliating and. abusing the victim, they induced mental illness. This is the worst form of human rights violation: making. any statement of the harassment appear to. be symptomatic of the illness which they cause through the harassment. That this can. happen, and people collude by silence, is. absolutely horrifying.

From the beginning. in June 1990 they set a pattern of harassment which they have. followed without change for the last six years. They paint me as a "threat" to which people. must "react" (shades of Nazi persecution methods), while simultaneously portraying their hate campaign on. which they have spent over a million. pounds of taxpayers� money as a "joke".

The. MI5 that breaks the law with the silent complicity of the police is the same agency that is now seeking a role in. the fight against crime. Perhaps the real joke is the proposed involvement in the. implementation of justice of an organisation which commits criminal acts with secrecy and. disinterest for. the legal process.

552

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From -5564631124770089424
X-Google-Thread: fcc6e,5a759b1475f83b8,start
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out02a.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news.alt.net
From: efiefmfmf@yahoo.com
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipme
nt,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: M-I 5-Persecut ion - w hy the  secu rity servi ces?
Followup-To:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipme
nt,rec.radio.amateur.homebrew,rec.radio.amateur.misc,uk.misc
Date: Wed, 2 Jan 2008 09:31:07 +0000 (UTC)
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 65
Message-ID: <ad0800020931030073@4ax.com>
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rec.radio.amateur.homebrew:14973 rec.radio.amateur.misc:42948
```

```
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
-= why. the security services? -=
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
```

You may ask,. why do I think the "they" referred to are the security services? Is there any evidence that there is. a single source, as opposed to a loosely based "whispering. campaign" amongst many people? Even if there is a single source, is there any evidence that "they". are professional "buggers" as opposed. to amateurs, or perhaps people working for a privately funded. organization?

a) As to the question of a single source. versus something more fragmented; it is quite obvious that there is a single source. from the way the campaign has been carried. out. Since things have been repeated verbatim which were said in my home, there. must be one group which does the watching and listening. Since. on several occasions (mainly during travel) people have been planted. in close proximity and rehearsed in what they were to say, it follows that someone. must have done the planning for that, and again a single source is. indicated.

b) So why couldn't it be amateurs? Why couldn't. it be a private organisation, for example a private detective agency paid. to manage the campaign and undertake the. technical aspects? Some detective agencies are unscrupulous as has been proved on the occasions. in the past when they've been exposed or caught; they. too can have access to the bugging technology deployed; and there are reported cases. of MI5 paying private eyes to do their dirty work (against peace campaigners and. similar enemies of the state) on the understanding that if they were caught then they could. deny all knowledge. Why. couldn't that be the case?

The main. factor pointing to direct security service involvement (as opposed to amateurs or MI5 proxies). is the breadth of their access to the media in particular, and the fact that the television companies are. so involved in the campaign. The. BBC would not directly invade someone's home themselves, since it would not be within. their remit to allocate personnel or financial resources to do so. An organisation of their stature would not. take part in a campaign set up by private sources. The. only people they would take material. from would be the security services, presumably on the assumption that if. the cat ever flew out of the bag yowling it would be MI5 who would take. the consequences.

State. sponsorship for these acts of psychological terrorism is also indicated by duration; support for over. six years for a team of three or four people would be beyond the. means and will of most private sources. The viciousness of the slanders and personal denigration also. points to MI5; they traditionally "protect". the British state from politicians of the wrong hue by character assassination, and in this case. are using their tried and. tested methods to murder with words an enemy they have invented for. themselves.

And there are precedents.. Diana and Hewitt were alleged to have been filmed "at it" by an Army intelligence team which had. operated in Northern Ireland, these allegations were made by someone called Jones. who had been on. the team. His statements were denied by the defence establishment who tried to character-assassinate by. describing him as the "Jones twins". Funny how if. you tell the truth, then you must be ill, isn't it? Thought only communists. behaved like that?

Hewitt later said that he'd been. spoken to by someone in the army who revealed the existence of videotapes of him and. Diana, and that the tapes would be published if any. attempt was made by them to resume their association.

552

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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out02a.usenetserver.com!news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news.alt.net
From: mfimfv@yahoo.com
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: M-I,5-Persecutio n . wh y the security services ?
Followup-To:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,uk.misc
Date: Wed, 2 Jan 2008 10:02:34 +0000 (UTC)
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 65
Message-ID: <lk0800021002321702@4ax.com>
Xref: g2news1.google.com rec.radio.amateur.antenna:52597
rec.radio.amateur.digital.misc:1020 rec.radio.amateur.equipment:13719
rec.radio.amateur.homebrew:14974 rec.radio.amateur.misc:42949

-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
-= why the. security services? -=
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=

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552

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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.alt.net
From: imfvm@gmail.com
Newsgroups: 
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipme
nt,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: M,I-5'Pe rsecution ' harassm ent at wo rk
Followup-To: 
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipme
nt,rec.radio.amateur.homebrew,rec.radio.amateur.misc,uk.misc
Date: Wed, 2 Jan 2008 10:45:12 +0000 (UTC)
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 41
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Message-ID: <ih0800021045097463@4ax.com>
Xref: g2news1.google.com rec.radio.amateur.antenna:52599
rec.radio.amateur.digital.misc:1021 rec.radio.amateur.equipment:13720
rec.radio.amateur.homebrew:14975 rec.radio.amateur.misc:42950

-=-=-=-=-=-=-=-=-=-=-=-=-=
-= harassment at. work -=
-=-=-=-=-=-=-=-=-=-=-=-=-=

Once I stopped watching television and listening to the. radio at the end of 1990, "they" had to find other ways of. committing abuses. So they took what must. be for them a tried and tested route; they get at you by subversion of those around you. Since they wouldn't be able to do that with my. family or friends, that meant getting at people in the workplace to be. their mouthpieces. and do their dirty work for them.

They supplied my employers in Oxford with details from what was. going on in my. private life, and what I and other people had said at my home and accommodation in Oxford. So people at. work repeated verbatim words which had been said. in my home, and repeated what I'd been doing recently. Often the most trivial things, the ones from your domestic life,. are the ones which hurt most. One manager in particular at Oxford continuously. abused me for ten months with verbal sexual abuse, swearing, and. threats to terminate my. employment. After ten months I was forced to seek psychiatric help and start taking medication, and was away from work for two. months. I spoke later with a solicitor about what had happened at that company;. he advised it. was only possible to take action if you had left the company as a result of harassment, and such an action would have to. be started very soon after leaving.

Over a year later. the same manager picked on another new worker, with even more serious results;. that employee tried to commit suicide with an overdose as a result of the ill-treatment, and was forced to leave. his job. But he didn't take action against the company, either.. Abuse at work is comparable to that elsewhere in that. tangible evidence is difficult to produce, and the. abusers will always have their denials ready when challenged. And even if a court accepts what you say happened, it. still remains to prove. that abuse causes the type of breakdown I had at the end of 1992. In a recent case before a British court,. a former member of the Army brought a case against others who had. maltreated him ten years previously. Although the court accepted. that abuse had occurred, it did not agree that depressive illness necessarily followed,. and denied justice to the. plaintiff.

2973

From -4414613763003317237
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!21g2000hsj.googlegroups.com!not-for-
mail
From: "bill.meara@gmail.com" <bill.meara@gmail.com>
Newsgroups: rec.radio.amateur.homebrew, rec.radio.amateur.boatanchors,
     rec.radio.amateur.equipment, sci.electronics.basics, sci.astro.amateur
Subject: Podcast: SolderSmoke #73  Special New Year's edition
Date: Wed, 2 Jan 2008 03:29:42 -0800 (PST)
Organization: http://groups.google.com
Lines: 55
Message-ID: <2434535c-355b-420a-bad4-e5a63aeaa228@21g2000hsj.googlegroups.com>
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Content-Transfer-Encoding: 7bit
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 2 Jan 2008 11:29:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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     1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14976
rec.radio.amateur.boatanchors:13630 rec.radio.amateur.equipment:13721
sci.electronics.basics:67371 sci.astro.amateur:97901
```

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SolderSmoke #73

January 2, 2008
SPECIAL NEW YEAR'S EDITION
AA1TJ's circuitry and poetry.
Homemade tubes.
Book Review: "Early Radio" by Peter Jensen.
The Vatican's antennas.
Google Earth flight simulator.
Mixer madness continues (now in LTSpice).
Mars-asteroid collision? Bollywood: The BITX-20
connection.
BANDSWEEP: Straight Key Night at WA6ARA (40 meters).
ECHO-GUEST: Andy, ZS6ADY, South African Boatanchor
fan.
MAILBAG:Jake N4UY(NOVA QRP),

Steve G0FUE (Bath Build-a-thon),
Nigel M0NDE

Tired of listening to U-2 or VOA on your I-Pod? Wouldn't you like to be able to carry with you the kinds of ham radio conversations that you listen to while in your radio shack? Tune in to SolderSmoke!

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I hope you enjoy the program. Please send us feedback.

73 from Rome
Bill M0HBR N2CQR CU2JL
http://www.gadgeteer.us

From -6073985054510761688
X-Google-Thread: 10cf58,c22b6a58a0bd49d9
X-Google-Thread: 115730,c22b6a58a0bd49d9
X-Google-Thread: fb1f8,c22b6a58a0bd49d9
X-Google-Thread: fc2a5,c22b6a58a0bd49d9
X-Google-Thread: 112d1e,c22b6a58a0bd49d9
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NNTP-Posting-Date: Wed, 02 Jan 2008 05:43:05 -0600
From: "William Sommerwerck" <grizzledgeezer@comcast.net>
Newsgroups: rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,sci.electronics.design
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com> <c1392b2b-ec5e-46f8-b751-0e77b3893656@s12g2000prg.googlegroups.com>
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic /

plans for one?
Date: Wed, 2 Jan 2008 03:43:27 -0800
X-Priority: 3
X-MSMail-Priority: Normal
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1914
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.audio.pro:177467 sci.electronics.equipment:9923
rec.audio.tech:39960 rec.radio.amateur.homebrew:14977
sci.electronics.design:309608

You can buy digital (yes, I know you said you wanted analog) autotuners --
such as those from Sabine -- for around $30.

From 7418872957418769081
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X-Google-Language: ENGLISH,ASCII-7-bit
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From: "Rich Klestinez" <replytogroup@noplace.cc>
Newsgroups: rec.radio.amateur.homebrew
References: <ea5a7551-574b-4688-8ec8-742fccb7397a@x29g2000prg.googlegroups.com>
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<Z5udnRReQ6zqS-janZ2dnUVZ8hydnZ2d@pipex.net> <c3370929-11db-4c80-87ac-a6166821bfc3@e25g2000prg.googlegroups.com>
Subject: Re: Mounting Toriods
Lines: 17
X-Priority: 3
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X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
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Message-ID: <ue6fj.11$dP7.10@newsfe07.lga>
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jelaiomldbhdbbehnajbdekeilolhhlffmaihafejhnbepfelfojnjbfokking
NNTP-Posting-Date: Thu, 03 Jan 2008 07:24:26 MST
Date: Thu, 3 Jan 2008 08:18:14 -0600
Xref: g2news1.google.com rec.radio.amateur.homebrew:14978

"Denny" <k8do@mailblocks.com> wrote in message
news:c3370929-11db-4c80-87ac-a6166821bfc3@e25g2000prg.googlegroups.com...
>I did not see the OP as being a heat issue, just a mechanical mounting
> issue... THough toroids are more self shielding than than non toroids,
> they are not perfect... Based on my experience with toroids in VFO's
> being very close to a metal object does affect the inductance, I would
> prefer to see him glue an insulator pad to the heat sink as a spacer
> and then glue the toroid to that... IF he was in fact trying to
> heatsink the toroid, he has major design problems he needs to solve..
>
> denny / k8do

I agree. If the toroid is getting that hot. ie too hot to hold your finger
on it, then the core is under sized. A re-design is called for.

From -5710451495426986941
X-Google-Thread: 10cf58,c22b6a58a0bd49d9
X-Google-Thread: 115730,c22b6a58a0bd49d9
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news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 04 Jan 2008 17:12:26 -0600
From: "William Sommerwerck" <grizzledgeezer@comcast.net>
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
<c1392b2b-ec5e-46f8-b751-0e77b3893656@s12g2000prg.googlegroups.com>
<373a84f8-3548-4fe4-abcb-a630cc4a4b10@j78g2000hsd.googlegroups.com>
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic /
plans for one?
Date: Fri, 4 Jan 2008 15:12:53 -0800
X-Priority: 3
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Lines: 10

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NNTP-Posting-Host: 24.22.132.12
X-Trace: sv3-UB9mmsgevM3uReoRD5X/wWYH7CTwrJt/
EF6TVXAKYq9QW6bb4LYjMCT6JkbpVjXFC4N+EaMci7hIl/M!
F1U14BkQ5XBNhsIvUq7dFKH+HNleSHM0O6ksQdiXiS3rG93jkcKTGSPr+P8Ab8fb9qnFXA/G0Q+K!
8C73Ox6SZF0krowhtsIAGnRFG+ol
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.audio.pro:177834 sci.electronics.equipment:9930
rec.audio.tech:40040 rec.radio.amateur.homebrew:14981
sci.electronics.design:310421

<mad.scientist.jr@gmail.com> wrote in message
news:373a84f8-3548-4fe4-abcb-a630cc4a4b10@j78g2000hsd.googlegroups.com...

> I am not skilled in electronics -- do you know of
> any schematics I could follow to build one of these?

If you're not skilled in electronics, you're wasting your time. Buy a
commercial unit and be done with it.

From 6778049911387015\96

From 677804991138701596
X-Google-Thread: 10cf58,c22b6a58a0bd49d9
X-Google-Thread: 115730,c22b6a58a0bd49d9
X-Google-Thread: fb1f8,c22b6a58a0bd49d9
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X-Google-Thread: 112d1e,c22b6a58a0bd49d9
X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!j78g2000hsd.googlegroups.com!not-for-
mail
From: mad.scientist.jr@gmail.com
Newsgroups: rec.audio.pro, sci.electronics.equipment, rec.audio.tech,
rec.radio.amateur.homebrew, sci.electronics.design
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic /
plans for one?
Date: Fri, 4 Jan 2008 14:51:49 -0800 (PST)
Organization: http://groups.google.com
Lines: 16
Message-ID: <373a84f8-3548-4fe4-abcb-a630cc4a4b10@j78g2000hsd.googlegroups.com>
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
<c1392b2b-ec5e-46f8-b751-0e77b3893656@s12g2000prg.googlegroups.com>
NNTP-Posting-Host: 68.223.20.142
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

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X-Trace: posting.google.com 1199487110 22229 127.0.0.1 (4 Jan 2008 22:51:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 4 Jan 2008 22:51:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j78g2000hsd.googlegroups.com; posting-host=68.223.20.142;
     posting-account=-2IdOAoAAAAuP4BOZLSw5XYf09oEsr3h
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.audio.pro:177831 sci.electronics.equipment:9928
rec.audio.tech:40038 rec.radio.amateur.homebrew:14979
sci.electronics.design:310412

Thanks for your reply. I am not skilled in electronics - do you know
of any schematics I could follow to build one of these?

On Jan 1, 11:39 pm, whit3rd <whit...@gmail.com> wrote:
> On Dec 31 2007, 10:43 am, mad.scientist...@gmail.com wrote:
>
> > I am looking for an inexpensive (hopefully $20 or less) analog meter
>
> > ... that will read the pitch
> > of the audio being played.
>
> Phase-lock loops like 74HC4046 can lock onto an audio
> frequency, and the follower in it has an output voltage
> proportional to frequency.  That's about $0.60 from your budget;
> a good analog moving-needle meter will suck up the rest of it.



From 2243856935316480528
X-Google-Thread: 10cf58,164e72c5fe769281,start
X-Google-Thread: 115730,164e72c5fe769281,start
X-Google-Thread: fb1f8,164e72c5fe769281,start
X-Google-Thread: fc2a5,164e72c5fe769281,start
X-Google-Thread: 112d1e,164e72c5fe769281,start
X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s12g2000prg.googlegroups.com!not-for-
mail
From: mad.scientist.jr@gmail.com
Newsgroups: rec.audio.pro, sci.electronics.equipment, rec.audio.tech,
     rec.radio.amateur.homebrew, sci.electronics.design
Subject: seeking schematics or plans to build a stereo analog volume meter (to
     plug into pc speaker headphone jack)
Date: Fri, 4 Jan 2008 15:01:39 -0800 (PST)
Organization: http://groups.google.com
Lines: 36
Message-ID: <7c0ed491-3cdb-4549-a43d-330cf4e13815@s12g2000prg.googlegroups.com>
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1199487699 23604 127.0.0.1 (4 Jan 2008 23:01:39 GMT)
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NNTP-Posting-Date: Fri, 4 Jan 2008 23:01:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s12g2000prg.googlegroups.com; posting-host=68.223.20.142;
     posting-account=-2IdOAoAAAAuP4BOZLSw5XYf09oEsr3h
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.audio.pro:177832 sci.electronics.equipment:9929
rec.audio.tech:40039 rec.radio.amateur.homebrew:14980
sci.electronics.design:310415
```

I would like to build an analog volume meter (moving needle type)
using moving needle gauges like this
    http://en.wikipedia.org/wiki/Image:VU_Meter.jpg
scavenged from a dead mixer's VU meter.

It would plug into the headphone jack on a set of computer speakers and monitor the right/left sound volumes independently.

Can anyone point me to a good website or book with schematics or plans on building this?

PS I would also be interested in building a frequency meter (also would be plugged into computer speakers and display the pitch/frequency of a pure sin wave coming from the computer's sound card). I got several replies but they were pretty technical and I have not found any complete plans for such a device. If any can suggest a good web site or book that would be great. Thanks

>BobG:
That's a tachometer. A lo pass filter, a comparator, a oneshot, a capacitor, and a meter on a trimpot. Every zero crossing, the comparator fires the oneshot, the cap integrates the pulses, and the meter shows the freq. Cal it with sine waves.... no harmonics.

linnix:
Or a $2 micro averaging the DCT, FFT or XYZ (forgot the name of that spectral analyser).

whit3rd:
Phase-lock loops like 74HC4046 can lock onto an audio frequency, and the follower in it has an output voltage proportional to frequency. That's about $0.60 from your budget; a good analog moving-needle meter will suck up the rest of it.

From -853855345667324251З

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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 04 Jan 2008 17:14:18 -0600
From: "William Sommerwerck" <grizzledgeezer@comcast.net>
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
References: <7c0ed491-3cdb-4549-a43d-330cf4e13815@s12g2000prg.googlegroups.com>
Subject: Re: seeking schematics or plans to build a stereo analog volume meter (to
plug into pc speaker headphone jack)
Date: Fri, 4 Jan 2008 15:14:46 -0800
X-Priority: 3
X-MSMail-Priority: Normal
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1914
Message-ID: <NIOdncQYt8xWIOPanZ2dnUVZ_qKgnZ2d@comcast.com>
Lines: 12
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.22.132.12
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jUyJY07sUZjCWto+DhVVKKcLDtK1FN87SuudDPCHCE1!UF1wSSBrJEv3KAr1RuhhgEHfqlA0
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.audio.pro:177835 sci.electronics.equipment:9931
rec.audio.tech:40041 rec.radio.amateur.homebrew:14982
sci.electronics.design:310422
```

<mad.scientist.jr@gmail.com> wrote in message
news:7c0ed491-3cdb-4549-a43d-330cf4e13815@s12g2000prg.googlegroups.com...

> I would like to build an analog volume meter (moving needle
> type) using moving needle gauges like this
> http://en.wikipedia.org/wiki/Image:VU_Meter.jpg
> scavenged from a dead mixer's VU meter.

Why do you need this, or think you need this? It might look nice, but will
it tell you what you need to know?

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From -2291944208500170585
X-Google-Thread: 10cf58,c22b6a58a0bd49d9
X-Google-Thread: 115730,c22b6a58a0bd49d9
X-Google-Thread: fb1f8,c22b6a58a0bd49d9
X-Google-Thread: fc2a5,c22b6a58a0bd49d9
X-Google-Thread: 112d1e,c22b6a58a0bd49d9
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
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news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 04 Jan 2008 17:28:52 -0600
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
<c1392b2b-ec5e-46f8-b751-0e77b3893656@s12g2000prg.googlegroups.com>
<373a84f8-3548-4fe4-abcb-a630cc4a4b10@j78g2000hsd.googlegroups.com>
<t7udnRRiF6zHIOPanZ2dnUVZ_qWtnZ2d@comcast.com>
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic /
plans for one?
Date: Fri, 4 Jan 2008 18:28:52 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <WsCdnWH09fCpXOPanZ2dnUVZ_quhnZ2d@comcast.com>
Lines: 25
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NNTP-Posting-Host: 71.199.254.204
X-Trace: sv3-
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UGIwc9x0mMcclMuZFnpE2oi2EDCgrCw=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.audio.pro:177836 sci.electronics.equipment:9932
rec.audio.tech:40042 rec.radio.amateur.homebrew:14983
sci.electronics.design:310424
```

"William Sommerwerck" <grizzledgeezer@comcast.net> wrote in message
news:t7udnRRiF6zHIOPanZ2dnUVZ_qWtnZ2d@comcast.com...

> <mad.scientist.jr@gmail.com> wrote in message
> news:373a84f8-3548-4fe4-abcb-a630cc4a4b10@j78g2000hsd.googlegroups.com...
>
>> I am not skilled in electronics -- do you know of

>> any schematics I could follow to build one of these?
>
> If you're not skilled in electronics, you're wasting your time. Buy a
> commercial unit and be done with it.
>
>

Go to a music store (one that sells musical instruments) and ask for a tuning
meter. Korg is a brand many stores carry.

--
Dave M
MasonDG44 at comcast dot net (Just substitute the appropriate characters in the
address)

"In theory, there isn't any difference between theory and practice. In
practice, there is." - Yogi Berra

From -7675310577701559919
X-Google-Thread: 10cf58,164e72c5fe769281
X-Google-Thread: 115730,164e72c5fe769281
X-Google-Thread: fb1f8,164e72c5fe769281
X-Google-Thread: fc2a5,164e72c5fe769281
X-Google-Thread: 112d1e,164e72c5fe769281
X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-FeedAbuse: http://nntpfeed.proxad.net/abuse.pl feeded by 88.191.71.11
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
nntpfeed.proxad.net!news.netfinity.fr!fu-berlin.de!uni-berlin.de!individual.net!
not-for-mail
From: "Richard Crowley" <rcrowley@xp7rt.net>
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Re: seeking schematics or plans to build a stereo analog volume meter (to
plug into pc speaker headphone jack)
Date: Fri, 4 Jan 2008 15:42:05 -0800
Lines: 33
Message-ID: <5u7uiiF1h2rnrU1@mid.individual.net>
References: <7c0ed491-3cdb-4549-a43d-330cf4e13815@s12g2000prg.googlegroups.com>
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Cancel-Lock: sha1:MTdAugQj0D6xwP2Dj1dkHaLlD6o=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Xref: g2news1.google.com rec.audio.pro:177837 sci.electronics.equipment:9933
rec.audio.tech:40043 rec.radio.amateur.homebrew:14984
sci.electronics.design:310428

<mad.scientist.jr@gmail.com> wrote ...
>I would like to build an analog volume meter (moving needle type)
> using moving needle gauges like this
>   http://en.wikipedia.org/wiki/Image:VU_Meter.jpg
> scavenged from a dead mixer's VU meter.
>
> It would plug into the headphone jack on a set of computer speakers
> and monitor the right/left sound volumes independently.
>
> Can anyone point me to a good website or book with schematics or plans
> on building this?

It is a pretty simple circuit, but it greatly depends on exactly
what your meters are. Get youself a couple of meters first,
and then come back and ask specifically for how to hook
them up. It would be very helpful to know what they came
out of, and for bonus points, the circuit diagram of where
they came from.

> PS I would also be interested in building a frequency meter (also
> would be plugged into computer speakers and display the pitch/
> frequency of a pure sin wave coming from the computer's sound card). I
> got several replies but they were pretty technical and I have not
> found any complete plans for such a device. If any can suggest a good
> web site or book that would be great. Thanks

Forget it. It is neither practical nor particularly useful.
Unless you can give us a good explanation of what you
think you want to do with it, nobody can help you.

(posted from rec.audio.tech)

From -6024390004962696624
X-Google-Thread: 10cf58,c22b6a58a0bd49d9
X-Google-Thread: 115730,c22b6a58a0bd49d9
X-Google-Thread: fb1f8,c22b6a58a0bd49d9
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: "Richard Crowley" <rcrowley@xp7rt.net>
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic /
plans for one?
Date: Fri, 4 Jan 2008 15:44:24 -0800

Lines: 13
Message-ID: <5u7umuF1gchajU1@mid.individual.net>
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
<c1392b2b-ec5e-46f8-b751-0e77b3893656@s12g2000prg.googlegroups.com>
<373a84f8-3548-4fe4-abcb-a630cc4a4b10@j78g2000hsd.googlegroups.com>
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Cancel-Lock: sha1:fnHADtwPoKCjblMNjzvUBgymLNg=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Xref: g2news1.google.com rec.audio.pro:177839 sci.electronics.equipment:9934
rec.audio.tech:40044 rec.radio.amateur.homebrew:14985
sci.electronics.design:310430

<mad.scientist.jr@gmail.com> wrote ...
> Thanks for your reply. I am not skilled in electronics - do you know
> of any schematics I could follow to build one of these?

Maybe. What do you want to do with it?
Can't answer it as a generic question. It
seems absurd to even think about a "meter"
for frequency when listening to most any
kind of normal audio.

(posted from: rec.audio.tech)

From -4949391194624985498
X-Google-Thread: 10cf58,164e72c5fe769281
X-Google-Thread: 115730,164e72c5fe769281
X-Google-Thread: fb1f8,164e72c5fe769281
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Path: g2news1.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Re: seeking schematics or plans to build a stereo analog volume meter (to
plug into pc speaker headphone jack)
Date: 4 Jan 2008 19:04:27 -0500
Organization: Former users of Netcom shell (1989-2000)
Lines: 17
Message-ID: <flmhib$61e$1@panix2.panix.com>
References: <7c0ed491-3cdb-4549-a43d-330cf4e13815@s12g2000prg.googlegroups.com>
<NIOdncQYt8xWIOPanZ2dnUVZ_qKgnZ2d@comcast.com>

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NNTP-Posting-Date: Sat, 5 Jan 2008 00:04:27 +0000 (UTC)
Xref: g2news1.google.com rec.audio.pro:177842 sci.electronics.equipment:9935
rec.audio.tech:40046 rec.radio.amateur.homebrew:14986
sci.electronics.design:310433

William Sommerwerck <grizzledgeezer@comcast.net> wrote:
><mad.scientist.jr@gmail.com> wrote in message
>news:7c0ed491-3cdb-4549-a43d-330cf4e13815@s12g2000prg.googlegroups.com...
>
>> I would like to build an analog volume meter (moving needle
>> type) using moving needle gauges like this
>> http://en.wikipedia.org/wiki/Image:VU_Meter.jpg
>> scavenged from a dead mixer's VU meter.
>
>Why do you need this, or think you need this? It might look nice, but will
>it tell you what you need to know?

And if you really need an actual VU meter, you won't find it on too many
consoles being scavenged these days, sad to say.
--scott
--
"C'est un Nagra.  C'est suisse, et tres, tres precis."


From 6569062607757196352
X-Google-Thread: 10cf58,c22b6a58a0bd49d9
X-Google-Thread: 115730,c22b6a58a0bd49d9
X-Google-Thread: fb1f8,c22b6a58a0bd49d9
X-Google-Thread: fc2a5,c22b6a58a0bd49d9
X-Google-Thread: 112d1e,c22b6a58a0bd49d9
X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 04 Jan 2008 18:39:09 -0600
From: "William Sommerwerck" <grizzledgeezer@comcast.net>
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
<c1392b2b-ec5e-46f8-b751-0e77b3893656@s12g2000prg.googlegroups.com>
<373a84f8-3548-4fe4-abcb-a630cc4a4b10@j78g2000hsd.googlegroups.com>
<t7udnRRiF6zHIOPanZ2dnUVZ_qWtnZ2d@comcast.com>
<WsCdnWH09fCpXOPanZ2dnUVZ_quhnZ2d@comcast.com>
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic /
plans for one?
Date: Fri, 4 Jan 2008 16:39:36 -0800
X-Priority: 3
X-MSMail-Priority: Normal
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X-Newsreader: Microsoft Outlook Express 6.00.2800.1914
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1914
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Lines: 6
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NNTP-Posting-Host: 24.22.132.12
X-Trace: sv3-h7hPzrPOjvHGbTtJFy2quo9uA+SaNwHNBKhxRFc/jDi3UcvCMoJkXxWP+8C48pDV7m3BbbHxi6/Ugjc!UgJQ6DUaL+gsyvY3UIVMpa/24JsrXulP78OVmk0QMhcw/77st2SEK1+B+BFWXPYekvTDQpx9DTzW!GALEMSbG0CotNZNO+GZc9lRSpz6c
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.audio.pro:177845 sci.electronics.equipment:9936 rec.audio.tech:40048 rec.radio.amateur.homebrew:14987 sci.electronics.design:310441

In fairness to the original poster... Once upon a time you could buy Heath or Knight or EICO or other electronics kits, to save money, learn about electronics, or just have fun. Most currently available kits don't do much useful and are overpriced.

From 8613432400423362306
X-Google-Thread: 10cf58,c22b6a58a0bd49d9
X-Google-Thread: 115730,c22b6a58a0bd49d9
X-Google-Thread: fb1f8,c22b6a58a0bd49d9
X-Google-Thread: fc2a5,c22b6a58a0bd49d9
X-Google-Thread: 112d1e,c22b6a58a0bd49d9
X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!62.111.101.3.MISMATCH!news.germany.com!feeder.news-service.com!sn-xt-ams-06!sn-xt-ams-10!sn-xt-ams-05!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Spehro Pefhany <speffSNIP@interlogDOTyou.knowwhat>
Newsgroups: rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic / plans for one?
Date: Fri, 04 Jan 2008 20:04:46 -0500
Organization: Rather
Message-ID: <ahltn3dgpnarpd5qb0ogksdvs4vf65jhh2@4ax.com>
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
<c1392b2b-ec5e-46f8-b751-0e77b3893656@s12g2000prg.googlegroups.com>
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MIME-Version: 1.0
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X-Complaints-To: abuse@supernews.com
Lines: 32
Xref: g2news1.google.com rec.audio.pro:177848 sci.electronics.equipment:9937
rec.audio.tech:40049 rec.radio.amateur.homebrew:14988
sci.electronics.design:310444

On Fri, 4 Jan 2008 18:28:52 -0500, the renowned "DaveM"
<masondg4499@comcast99.net> wrote:

>"William Sommerwerck" <grizzledgeezer@comcast.net> wrote in message
>news:t7udnRRiF6zHIOPanZ2dnUVZ_qWtnZ2d@comcast.com...
>> <mad.scientist.jr@gmail.com> wrote in message
>> news:373a84f8-3548-4fe4-abcb-a630cc4a4b10@j78g2000hsd.googlegroups.com...
>>
>>> I am not skilled in electronics -- do you know of
>>> any schematics I could follow to build one of these?
>>
>> If you're not skilled in electronics, you're wasting your time. Buy a
>> commercial unit and be done with it.
>>
>>
>
>Go to a music store (one that sells musical instruments) and ask for a tuning
>meter.  Korg is a brand many stores carry.

Lots (mostly digital with faux analog displays) to pick from for
between $10 and $20. I just bought this one at a local music store for
$15 or so, batteries included.

http://www.amazon.com/KORG-GA30-Guitar-Bass-Tuner/dp/B000EB68VK/ref=pd_bbs_sr_8?
ie=UTF8&s=musical-instruments&qid=1199494627&sr=8-8


Best regards,
Spehro Pefhany
--
"it's the network..."                          "The Journey is the reward"
speff@interlog.com             Info for manufacturers: http://www.trexon.com
Embedded software/hardware/analog  Info for designers:  http://www.speff.com


From 9172017977996983074
X-Google-Thread: 10cf58,c22b6a58a0bd49d9
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X-Google-Thread: 112d1e,c22b6a58a0bd49d9
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NNTP-Posting-Date: Fri, 04 Jan 2008 19:30:43 -0600
From: "William Sommerwerck" <grizzledgeezer@comcast.net>
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
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Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic /
plans for one?
Date: Fri, 4 Jan 2008 17:31:10 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1914
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1914
Message-ID: <NMCdndkGiYZeQOPanZ2dnUVZ_ternZ2d@comcast.com>
Lines: 9
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NNTP-Posting-Host: 24.22.132.12
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X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.audio.pro:177850 sci.electronics.equipment:9938
rec.audio.tech:40050 rec.radio.amateur.homebrew:14989
sci.electronics.design:310448

"Spehro Pefhany" <speffSNIP@interlogDOTyou.knowwhat> wrote
in message news:ahltn3dgpnarpd5qb0ogksdvs4vf65jhh2@4ax.com...

> Lots (mostly digital with faux analog displays)...

Good grief. One of those rare human beings who actually understands the
difference between analog and digital. Congratulations!

From -1642027707282717231
X-Google-Thread: 10cf58,164e72c5fe769281
X-Google-Thread: 115730,164e72c5fe769281

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X-Google-Thread: fb1f8,164e72c5fe769281
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attbi_s22.POSTED!53ab2750!not-for-mail
From: dizzy <dizzy@nospam.invalid>
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Re: seeking schematics or plans to build a stereo analog volume meter (to
plug into pc speaker headphone jack)
Message-ID: <sq3un3te4n9h2lgag4vkf5foroptba3sin@4ax.com>
References: <7c0ed491-3cdb-4549-a43d-330cf4e13815@s12g2000prg.googlegroups.com>
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Lines: 23
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NNTP-Posting-Date: Sat, 05 Jan 2008 05:09:02 GMT
Organization: AT&T ASP.att.net
Date: Sat, 05 Jan 2008 05:09:02 GMT
Xref: g2news1.google.com rec.audio.pro:177865 sci.electronics.equipment:9940
rec.audio.tech:40054 rec.radio.amateur.homebrew:14990
sci.electronics.design:310493

mad.scientist.jr@gmail.com wrote:

>I would like to build an analog volume meter (moving needle type)
>using moving needle gauges like this
>    http://en.wikipedia.org/wiki/Image:VU_Meter.jpg
>scavenged from a dead mixer's VU meter.
>
>It would plug into the headphone jack on a set of computer speakers
>and monitor the right/left sound volumes independently.
>
>Can anyone point me to a good website or book with schematics or plans
>on building this?

How about LED bar-graph VU meter?  Fairly easy to make, using these:

http://www.national.com/mpf/LM/LM3915.html

or

http://www.national.com/mpf/LM/LM3916.html

Check the full datasheet for example circuits.
```

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From 1260823343464823368
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news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
From: "Paul Stamler" <pstamlerhell@pobox.com>
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
References: <7c0ed491-3cdb-4549-a43d-330cf4e13815@s12g2000prg.googlegroups.com>
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plug into pc speaker headphone jack)
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2008 06:22:25 GMT)
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rec.audio.tech:40056 rec.radio.amateur.homebrew:14991
sci.electronics.design:310502
```

<mad.scientist.jr@gmail.com> wrote in message
news:7c0ed491-3cdb-4549-a43d-330cf4e13815@s12g2000prg.googlegroups.com...

> I would like to build an analog volume meter (moving needle type)
> using moving needle gauges like this
>   http://en.wikipedia.org/wiki/Image:VU_Meter.jpg
> scavenged from a dead mixer's VU meter.
>
> It would plug into the headphone jack on a set of computer speakers
> and monitor the right/left sound volumes independently.
>
> Can anyone point me to a good website or book with schematics or plans
> on building this?

I believe I published a design for a buffered VU meter somewhere around 1993 in Audio Amateur magazine, which is now known as audioXpress. It's really very simple; for an unbalanced line (like the headphone jack) all you need is an opamp (half of a TL072 works fine), a couple of resistors, and a pot to adjust the calibration. Connect the output of the opamp to the VU meter through a 3.62k resistor and you're home free (okay, you need something to power the opamp like a cheap balanced power supply or a couple of 9V batteries). If you have a real VU meter, there you are.

Of course, we don't know if your "VU" meter is a real VU meter, which has certain defined ballistics that are specified in ANSI technical standards. Can you tell us from what broken mixer you scavenged the meter?

> PS I would also be interested in building a frequency meter (also
> would be plugged into computer speakers and display the pitch/
> frequency of a pure sin wave coming from the computer's sound card). I
> got several replies but they were pretty technical and I have not
> found any complete plans for such a device. If any can suggest a good
> web site or book that would be great. Thanks

Probably the easiest way to do that is not to build it. Instead, go buy a digital voltmeter (DVM) which has a frequency scale on it.

Peace,
Paul

```
From 4586934061949247717
X-Google-Thread: 10cf58,164e72c5fe769281
X-Google-Thread: 115730,164e72c5fe769281
X-Google-Thread: fb1f8,164e72c5fe769281
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X-Google-Thread: 112d1e,164e72c5fe769281
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X-Google-Language: ENGLISH,ASCII-7-bit
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mail
From: linnix <me@linnix.info-for.us>
Newsgroups: rec.audio.pro, sci.electronics.equipment, rec.audio.tech,
     rec.radio.amateur.homebrew, sci.electronics.design
Subject: Re: seeking schematics or plans to build a stereo analog volume meter
     (to plug into pc speaker headphone jack)
Date: Fri, 4 Jan 2008 23:09:31 -0800 (PST)
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NNTP-Posting-Date: Sat, 5 Jan 2008 07:09:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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Xref: g2news1.google.com rec.audio.pro:177881 sci.electronics.equipment:9942
rec.audio.tech:40057 rec.radio.amateur.homebrew:14992
sci.electronics.design:310510

On Jan 4, 9:09 pm, dizzy <di...@nospam.invalid> wrote:
> mad.scientist...@gmail.com wrote:
> >I would like to build an analog volume meter (moving needle type)
> >using moving needle gauges like this
> >    http://en.wikipedia.org/wiki/Image:VU_Meter.jpg
> >scavenged from a dead mixer's VU meter.
>
> >It would plug into the headphone jack on a set of computer speakers
> >and monitor the right/left sound volumes independently.
>
> >Can anyone point me to a good website or book with schematics or plans
> >on building this?
>
> How about LED bar-graph VU meter?  Fairly easy to make, using these:

For small displays, LED is difficult to have fine resolutions.

Color backlite LCD is a much better option.

For example:

http://linnix.com/lcd-meter.jpg

is a color LCD display for one of our customer.

You can drive it with an LCD uC running a Goertzel filter on the
selected frequency.  uC + LCD for $5  in volume.


From -4449948452567054443
X-Google-Thread: 10cf58,c22b6a58a0bd49d9
X-Google-Thread: 115730,c22b6a58a0bd49d9
X-Google-Thread: fb1f8,c22b6a58a0bd49d9
X-Google-Thread: fc2a5,c22b6a58a0bd49d9
X-Google-Thread: 112d1e,c22b6a58a0bd49d9
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X-Google-Language: ENGLISH,ASCII-7-bit
Date: Sat, 05 Jan 2008 13:51:50 +0100
From: Wim Ton <wton@bluewin.ch>
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
MIME-Version: 1.0
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Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic
 / plans for one?
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
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X-Trace: news.bluewin.ch 1199537404 85.2.230.211 (5 Jan 2008 13:50:04 +0100)
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Lines: 24
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news.bluewin.ch!not-for-mail
Xref: g2news1.google.com rec.audio.pro:177901 sci.electronics.equipment:9944
rec.audio.tech:40059 rec.radio.amateur.homebrew:14993
sci.electronics.design:310534

mad.scientist.jr@gmail.com wrote:
> I am looking for an inexpensive (hopefully $20 or less) analog meter
>
> one with a moving needle like this
> http://en.wikipedia.org/wiki/Image:VU_Meter.jpg
>
> that I can plug my computer's sound card into (actually two meters,
> one for the right speaker, one for the left), that will read the pitch
> of the audio being played.
>
> I know that a given sound has a fundamental tone and overtones, and it
> would have to detect the fundemantal tone (like a guitar tuner). The
> audio source would be a MIDI program, so if necessary I could use
> samples of a very simple waveform (ie Sine, square, etc) if that would
> eliminate overtones and make pitch detection more accurate.
>
> Does anyone know if such a meter exists or where to find plans to
> build one?
>
> Thanks.

If you have a computer anyway, how about using the sound input and run
one of the numerous spectrum analyser programs on it?

Wim

From -3849478911907482698
X-Google-Thread: 10cf58,c22b6a58a0bd49d9
X-Google-Thread: 115730,c22b6a58a0bd49d9

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X-Google-Thread: fc2a5,c22b6a58a0bd49d9
X-Google-Thread: 112d1e,c22b6a58a0bd49d9
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news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 05 Jan 2008 07:02:59 -0600
From: "William Sommerwerck" <grizzledgeezer@comcast.net>
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
<477f7cfc$1_7@news.bluewin.ch>
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic /
plans for one?
Date: Sat, 5 Jan 2008 05:03:28 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1914
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1914
Message-ID: <JP-dnY70ZuueHeLanZ2dnUVZ_qygnZ2d@comcast.com>
Lines: 13
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.22.132.12
X-Trace: sv3-
hel3sZO7AvRZZnsFSR1oZFcoJuo1iFEX6F2vMX9tzgqjobpTvbbbz8oeqmWXEmIfElNYCAW3koaTPhu!
ISCbXX8Q3toKi6QAEA16dn1dguX78n2jMDqtOniis91lFZt0Da+5dutXSYZPChLWHrr7xAwgnHH1!
otExylKRFz+MGwrBUJKAmmwGJNHK
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.audio.pro:177902 sci.electronics.equipment:9945
rec.audio.tech:40060 rec.radio.amateur.homebrew:14994
sci.electronics.design:310535

mad.scientist.jr@gmail.com wrote:

> I know that a given sound has a fundamental tone and overtones,
> and it would have to detect the fundemantal tone (like a guitar tuner).

There's no need to "detect" the fundamental. The device would simply look for zero crossings, which are the same regardless of the presence or absence of harmonics.

In fact, I'm reasonably (but not completely) sure a PLL would work with a non-sine signal.

```
From 3672833684171168216
X-Google-Thread: 10cf58,164e72c5fe769281
X-Google-Thread: 115730,164e72c5fe769281
X-Google-Thread: fb1f8,164e72c5fe769281
X-Google-Thread: fc2a5,164e72c5fe769281
X-Google-Thread: 112d1e,164e72c5fe769281
X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Re: seeking schematics or plans to build a stereo analog volume meter (to
plug into pc speaker headphone jack)
Date: 5 Jan 2008 08:25:57 -0500
Organization: Former users of Netcom shell (1989-2000)
Lines: 13
Message-ID: <flo0h5$qjc$1@panix2.panix.com>
References: <7c0ed491-3cdb-4549-a43d-330cf4e13815@s12g2000prg.googlegroups.com>
<sq3un3te4n9h2lgag4vkf5foroptba3sin@4ax.com>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1199539557 25953 166.84.1.2 (5 Jan 2008 13:25:57 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 5 Jan 2008 13:25:57 +0000 (UTC)
Xref: g2news1.google.com rec.audio.pro:177906 sci.electronics.equipment:9946
rec.audio.tech:40061 rec.radio.amateur.homebrew:14995
sci.electronics.design:310537

dizzy  <dizzy@nospam.invalid> wrote:
>
>How about LED bar-graph VU meter?  Fairly easy to make, using these:
>
>http://www.national.com/mpf/LM/LM3915.html

Comes only vaguely close to meeting VU ballistics specs, which can be
very annoying at times.  Fine for rough work, though.

Vellemann makes some inexpensive LED meter kids.
--scott
--
"C'est un Nagra.  C'est suisse, et tres, tres precis."


From 7061068485550587285
X-Google-Thread: 10cf58,c22b6a58a0bd49d9
X-Google-Thread: 115730,c22b6a58a0bd49d9
X-Google-Thread: fb1f8,c22b6a58a0bd49d9
X-Google-Thread: fc2a5,c22b6a58a0bd49d9
X-Google-Thread: 112d1e,c22b6a58a0bd49d9
```

X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!v46g2000hsv.googlegroups.com!not-for-mail
From: MooseFET <kensmith@rahul.net>
Newsgroups: rec.audio.pro, sci.electronics.equipment, rec.audio.tech,
     rec.radio.amateur.homebrew, sci.electronics.design
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic /
     plans for one?
Date: Sat, 5 Jan 2008 08:21:52 -0800 (PST)
Organization: http://groups.google.com
Lines: 23
Message-ID: <f5e9cc44-76e2-4997-97a7-91bba37e74df@v46g2000hsv.googlegroups.com>
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
     <477f7cfc$1_7@news.bluewin.ch> <JP-dnY70ZuueHeLanZ2dnUVZ_qygnZ2d@comcast.com>
NNTP-Posting-Host: 67.170.248.151
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1199550113 27121 127.0.0.1 (5 Jan 2008 16:21:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 5 Jan 2008 16:21:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v46g2000hsv.googlegroups.com; posting-host=67.170.248.151;
     posting-account=WpWCSgoAAAD-tgsKntNZep9MY4ctsgnu
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686 (x86_64); en-US; rv:1.8.0.4)
     Gecko/20060527 SUSE/1.5.0.4-1.3 Firefox/1.5.0.4,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.audio.pro:177928 sci.electronics.equipment:9947
rec.audio.tech:40063 rec.radio.amateur.homebrew:14996
sci.electronics.design:310553

On Jan 5, 5:03 am, "William Sommerwerck" <grizzledgee...@comcast.net>
wrote:
> mad.scientist...@gmail.com wrote:
> > I know that a given sound has a fundamental tone and overtones,
> > and it would have to detect the fundemantal tone (like a guitar tuner).
>
> There's no need to "detect" the fundamental. The device would simply look
> for zero crossings, which are the same regardless of the presence or absence
> of harmonics.

That need not be true. If you have a large high harmonic, you can
have two zero crossings where one is expected. Only a little
cleverness is needed to fix the problem.

> In fact, I'm reasonably (but not completely) sure a PLL would work with a
> non-sine signal.

They do but you need to make sure that they sweep up to the frequency
they are going to lock onto. Most PLL designs will happily lock onto
a harmonic.

From -403435638492272606
X-Google-Thread: 10cf58,c22b6a58a0bd49d9
X-Google-Thread: 115730,c22b6a58a0bd49d9
X-Google-Thread: fb1f8,c22b6a58a0bd49d9
X-Google-Thread: fc2a5,c22b6a58a0bd49d9
X-Google-Thread: 112d1e,c22b6a58a0bd49d9
X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!cycny01.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc06.POSTED!dd653b87!not-for-mail
From: Rich Grise <rich@example.net>
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic /
 plans for one?
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
<c1392b2b-ec5e-46f8-b751-0e77b3893656@s12g2000prg.googlegroups.com>
<373a84f8-3548-4fe4-abcb-a630cc4a4b10@j78g2000hsd.googlegroups.com>
<t7udnRRiF6zHIOPanZ2dnUVZ_qWtnZ2d@comcast.com>
<WsCdnWH09fCpXOPanZ2dnUVZ_quhnZ2d@comcast.com>
<ahltn3dgpnarpd5qb0ogksdvs4vf65jhh2@4ax.com>
<NMCdndkGiYZeQOPanZ2dnUVZ_ternZ2d@comcast.com>
User-Agent: Pan/0.131 (Ghosts: First Variation)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 16
Message-ID: <1nQfj.4226$Xo1.3644@trnddc06>
Date: Sat, 05 Jan 2008 18:53:49 GMT
NNTP-Posting-Host: 71.119.122.152
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc06 1199559229 71.119.122.152 (Sat, 05 Jan 2008 13:53:49 EST)
NNTP-Posting-Date: Sat, 05 Jan 2008 13:53:49 EST
Xref: g2news1.google.com rec.audio.pro:177946 sci.electronics.equipment:9948
rec.audio.tech:40066 rec.radio.amateur.homebrew:14997
sci.electronics.design:310597

On Fri, 04 Jan 2008 17:31:10 -0800, William Sommerwerck wrote:

> "Spehro Pefhany" <speffSNIP@interlogDOTyou.knowwhat> wrote in message
> news:ahltn3dgpnarpd5qb0ogksdvs4vf65jhh2@4ax.com...
>
>> Lots (mostly digital with faux analog displays)...
>
> Good grief. One of those rare human beings who actually understands the
> difference between analog and digital. Congratulations!

There are 10 kinds of people in the world:

Those who understand binary, and those who don't.

;-)
Rich

From -1449901383955259960
X-Google-Thread: 10cf58,164e72c5fe769281
X-Google-Thread: 115730,164e72c5fe769281
X-Google-Thread: fb1f8,164e72c5fe769281
X-Google-Thread: fc2a5,164e72c5fe769281
X-Google-Thread: 112d1e,164e72c5fe769281
X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 05 Jan 2008 16:23:37 -0600
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
References: <7c0ed491-3cdb-4549-a43d-330cf4e13815@s12g2000prg.googlegroups.com>
<sq3un3te4n9h2lgag4vkf5foroptba3sin@4ax.com> <flo0h5$qjc$1@panix2.panix.com>
Subject: Re: seeking schematics or plans to build a stereo analog volume meter (to
plug into pc speaker headphone jack)
Date: Sat, 5 Jan 2008 17:23:37 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <3MGdncfORqD0nh3anZ2dnUVZ_tCrnZ2d@comcast.com>
Lines: 30
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.199.254.204
X-Trace: sv3-ctmwdZzKTkiZ2vwqsAZXsdYwTiImUMtHctZLo/
0fQwR3ELr01+1ymEeslLEqAEDXwZkzhCskpzSWaCa!
qSgh4FVcVhPjexjPVIwwpQgXGQX2nuBt1+w49ydRbUQbEfVE9Syo8HLOnZtK3arVVrLSPVlyClBH!
xuUVrU7nv6yqFgN4d2Z8T54+mCMuHy4=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.audio.pro:177969 sci.electronics.equipment:9950
rec.audio.tech:40074 rec.radio.amateur.homebrew:14998
sci.electronics.design:310637

"Scott Dorsey" <kludge@panix.com> wrote in message
news:flo0h5$qjc$1@panix2.panix.com...

> dizzy <dizzy@nospam.invalid> wrote:
>>
>>How about LED bar-graph VU meter? Fairly easy to make, using these:
>>
>>http://www.national.com/mpf/LM/LM3915.html
>
> Comes only vaguely close to meeting VU ballistics specs, which can be
> very annoying at times. Fine for rough work, though.
>
> Vellemann makes some inexpensive LED meter kids.
> --scott
> --
> "C'est un Nagra. C'est suisse, et tres, tres precis."

If the OP is determined to build something to use his analog meters, I suggest the project at http://sound.westhost.com/project55.htm. Seems to be a reasonable circuit and gives a decent description as well.

--
Dave M
MasonDG44 at comcast dot net (Just substitute the appropriate characters in the address)

"In theory, there isn't any difference between theory and practice. In practice, there is." - Yogi Berra

```
From -4297692212713620333
X-Google-Thread: fc2a5,ddd19c6576200d82
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-05!sn-xt-sjc-01!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: robert casey <wa2ise@ix.netcom.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: potting - hot melt gule and two part epoxy
Date: Sat, 05 Jan 2008 18:07:36 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13o03dskpfiua8b@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Win 9x 4.90; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <bea2b617-d630-4d0b-94eb-b7b61df630f4@i12g2000prf.googlegroups.com>
<OdSdnW6kvcA-SfranZ2dnUVZ_h2pnZ2d@comcast.com>
In-Reply-To: <OdSdnW6kvcA-SfranZ2dnUVZ_h2pnZ2d@comcast.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 24
```

```
Xref: g2news1.google.com rec.radio.amateur.homebrew:14999

Pete KE9OA wrote:

> TenTec used hot melt glue in the VCO modules of the Paragon transceiver, so
> this glue probably has good RF characteristics (hopefully).

A way to test hot melt glue would be to place a small piece on a paper
plate in the microwave oven, along with a cup of coffee to the side (as
a dummy load to keep the oven happy).  See if it gets warm.
>>
>>Has anyone attempted to use good old fashioned hot melt glue as an
>>encapsulant for modules ?
>>
>>Probably needs melting in a pot over a flame (with appropriate care).
>>
A double boiler set up may be better for that.




>>
>>Both of these options seem significantly less expensive than standard
>>epoxy potting compound...

I suppose an advantage of hot melt glue is that you could de-encapsulate
stuff easier if you ever needed to.



From -8521022998376513854
X-Google-Thread: fc2a5,ddd19c6576200d82
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-03!sn-xt-sjc-07!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: robert casey <wa2ise@ix.netcom.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: potting - hot melt gule and two part epoxy
Date: Sat, 05 Jan 2008 18:13:20 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13o03ok5bsjsc98@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Win 9x 4.90; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <bea2b617-d630-4d0b-94eb-b7b61df630f4@i12g2000prf.googlegroups.com>
<96108bc8-cfdc-4c67-bb8f-4014f09c6ae8@s12g2000prg.googlegroups.com>
<47681da2$0$504$815e3792@news.qwest.net>
<TLqdnZp4vYe_yfXanZ2dnUVZ_oOnnZ2d@rcn.net>
In-Reply-To: <TLqdnZp4vYe_yfXanZ2dnUVZ_oOnnZ2d@rcn.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
```

Lines: 9
Xref: g2news1.google.com rec.radio.amateur.homebrew:15000

> Some "pro" potting compounds are 2-part RTV rubber. This presumably has
> a bit more "give" than a rigid epoxy & is less likely to rip parts off a
> board.

Kenwood used something like that in the TS440SAT transceiver, on the VCO
if I recall correctly. Seems the stuff would sometimes corrode some of
the circuitry after several years.

From -7380262169358887114
X-Google-Thread: fc2a5,7c7e855c55cd10b5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!tethys.csu.net!
nntp.csufresno.edu!sn-xt-sjc-03!sn-xt-sjc-09!sn-xt-sjc-07!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: robert casey <wa2ise@ix.netcom.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FCC and CE EMC Certification
Date: Sat, 05 Jan 2008 18:20:01 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13o0455obpqk3e3@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Win 9x 4.90; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <13milhpul74je3@corp.supernews.com>
In-Reply-To: <13milhpul74je3@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 16
Xref: g2news1.google.com rec.radio.amateur.homebrew:15001

> Why are some imported (to the U.S.) intentional radiators (such as
> RC toys, fitness heart-rate monitors, etc.) not FCC EMC Part 15
> certified (there is no FCC OET record on file)? These have CE
> EMC Certification and a CE 'number'; is there a treaty that
> exempts such devices from further FCC certification? Is there
> a publicly accessible database of CE 'numbers' similar to the
> FCC OET filings? I have found nothing of use on the 'net in
> these matters?
>

Probably because of a similar reason that toys have lead. Customs
agents too busy looking for drugs and such to worry about some paperwork

issue... And years ago I heard an FCC guy say that they frequently see
bogus FCC certification file numbers on stuff.

```
From 3028270940159837894
X-Google-Thread: 10cf58,164e72c5fe769281
X-Google-Thread: 115730,164e72c5fe769281
X-Google-Thread: fb1f8,164e72c5fe769281
X-Google-Thread: fc2a5,164e72c5fe769281
X-Google-Thread: 112d1e,164e72c5fe769281
X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e10g2000prf.googlegroups.com!not-for-
mail
From: Mike Rivers <mrivers@d-and-d.com>
Newsgroups: rec.audio.pro, sci.electronics.equipment, rec.audio.tech,
     rec.radio.amateur.homebrew, sci.electronics.design
Subject: Re: seeking schematics or plans to build a stereo analog volume meter
     (to plug into pc speaker headphone jack)
Date: Sat, 5 Jan 2008 15:50:59 -0800 (PST)
Organization: http://groups.google.com
Lines: 11
Message-ID: <b9a9b0ea-93ed-4b32-941b-8e57e0d9a4dd@e10g2000prf.googlegroups.com>
References: <7c0ed491-3cdb-4549-a43d-330cf4e13815@s12g2000prg.googlegroups.com>
     <sq3un3te4n9h2lgag4vkf5foroptba3sin@4ax.com> <flo0h5$qjc$1@panix2.panix.com>
     <3MGdncfORqD0nh3anZ2dnUVZ_tCrnZ2d@comcast.com>
NNTP-Posting-Host: 138.88.186.48
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1199577059 11153 127.0.0.1 (5 Jan 2008 23:50:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 5 Jan 2008 23:50:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e10g2000prf.googlegroups.com; posting-host=138.88.186.48;
     posting-account=LcOu_gkAAAD1mTBBNla6TZw0QcjfYTg3
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.audio.pro:177979 sci.electronics.equipment:9951
rec.audio.tech:40075 rec.radio.amateur.homebrew:15002
sci.electronics.design:310653
```

On Jan 5, 5:23 pm, "DaveM" <masondg4...@comcast99.net> wrote:

> If the OP is determined to build something to use his analog meters, I suggest
> the project athttp://sound.westhost.com/project55.htm. Seems to be a
> reasonable circuit and gives a decent description as well.

My humble apologies. I thought I was reading the same question that he
asked a few days ago when he wanted to use an analog VU meter to
display pitch. I see that here he's looking to display level.
Different question, different answer, and this one has an easier

answer.

```
From 1299762169212551075
X-Google-Thread: 10cf58,c22b6a58a0bd49d9
X-Google-Thread: 115730,c22b6a58a0bd49d9
X-Google-Thread: fb1f8,c22b6a58a0bd49d9
X-Google-Thread: fc2a5,c22b6a58a0bd49d9
X-Google-Thread: 112d1e,c22b6a58a0bd49d9
X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 06 Jan 2008 07:01:41 -0600
From: "jack" <jdwalton@comcast.net>
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
<477f7cfc$1_7@news.bluewin.ch>
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic /
plans for one?
Date: Sun, 6 Jan 2008 08:03:58 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Message-ID: <Hr-dnU4zydGoTB3anZ2dnUVZ_hCdnZ2d@comcast.com>
Lines: 8
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.249.69.72
X-Trace: sv3-
V4F5LdG9vOoPmIay9M6BfehCZ4jL55IsHT0wUwgvCuXvXPH57t32xnzth22mPSQ6k1mtCvC+nT4/4U6!
Wj05KXEV5Ll3MIxqUQPHTVvJlyKtI3Wn5LPf4cwJEtI5eXw33auHdqrwqmyPIPsq0RLeV24EI500!
BXQb5j0dnlgQZ2DFcW/jc2V3fEe5
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.audio.pro:178029 sci.electronics.equipment:9953
rec.audio.tech:40083 rec.radio.amateur.homebrew:15003
sci.electronics.design:310728
```

National Semi still makes a "frequency to voltage" converter chip, so does Analog.

But here's a link to using a PLL -- from National Semi -- Application Note 210
http://www.national.com/an/AN/AN-210.pdf

```
From 7327894561885312271
X-Google-Thread: 10cf58,c22b6a58a0bd49d9
X-Google-Thread: 115730,c22b6a58a0bd49d9
X-Google-Thread: fb1f8,c22b6a58a0bd49d9
X-Google-Thread: fc2a5,c22b6a58a0bd49d9
X-Google-Thread: 112d1e,c22b6a58a0bd49d9
X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 06 Jan 2008 07:20:22 -0600
From: "William Sommerwerck" <grizzledgeezer@comcast.net>
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
<477f7cfc$1_7@news.bluewin.ch> <Hr-dnU4zydGoTB3anZ2dnUVZ_hCdnZ2d@comcast.com>
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic /
plans for one?
Date: Sun, 6 Jan 2008 05:20:52 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1914
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1914
Message-ID: <QvydnZPbtP8LSB3anZ2dnUVZ_rSrnZ2d@comcast.com>
Lines: 16
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.22.132.12
X-Trace: sv3-tcD/
1IHqgdgG+OsV7vPBnaFL4eAf24Mrh9ozvM7Nm1S6j8dNhjGI2Proki3juE7eoWximds1AG9/mra!
oNojN0zM8fxHeoem2xKGB7eU9HKz6O/B4prnWtFMk2R/TW/5KjCU8t85PoS5EmhwbeyVbs5HaS5n!
M8uwHX77hum31Kh0lyd7P/95zwQS
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.audio.pro:178030 sci.electronics.equipment:9955
rec.audio.tech:40084 rec.radio.amateur.homebrew:15004
sci.electronics.design:310729
```

"jack" <jdwalton@comcast.net> wrote in message
news:Hr-dnU4zydGoTB3anZ2dnUVZ_hCdnZ2d@comcast.com...

> National Semi still makes a "frequency to voltage" converter chip,
> so does Analog.
>
> But here's a link to using a PLL -- from National Semi --

> Application Note 210
> http://www.national.com/an/AN/AN-210.pdf

This is fine, but what about the accuracy and resolution of the analog meter used to read the output?

It still isn't clear why the OP is insisting on an analog display.

```
From 3298784745425091855
X-Google-Thread: 10cf58,c22b6a58a0bd49d9
X-Google-Thread: 115730,c22b6a58a0bd49d9
X-Google-Thread: fb1f8,c22b6a58a0bd49d9
X-Google-Thread: fc2a5,c22b6a58a0bd49d9
X-Google-Thread: 112d1e,c22b6a58a0bd49d9
X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!sn-xt-sjc-03!sn-xt-
sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Richard Crowley" <rcrowley@xp7rt.net>
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic /
plans for one?
Date: Sun, 6 Jan 2008 06:32:33 -0800
Organization: Remove number to reply
Message-ID: <13o1pk2fir5rdc3@corp.supernews.com>
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
<477f7cfc$1_7@news.bluewin.ch> <Hr-dnU4zydGoTB3anZ2dnUVZ_hCdnZ2d@comcast.com>
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="Windows-1252";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-Complaints-To: abuse@supernews.com
Lines: 10
Xref: g2news1.google.com rec.audio.pro:178037 sci.electronics.equipment:9956
rec.audio.tech:40089 rec.radio.amateur.homebrew:15005
sci.electronics.design:310740
```

"jack" wrote ...
> National Semi still makes a "frequency to voltage" converter
> chip, so does Analog.
>
> But here's a link to using a PLL -- from National Semi --

> Application Note 210
> http://www.national.com/an/AN/AN-210.pdf

Note that publication is 29 years old and I don't think any
of the mentioned ICs are still in production any more.

```
From 2418374703803653805
X-Google-Thread: 10cf58,c22b6a58a0bd49d9
X-Google-Thread: 115730,c22b6a58a0bd49d9
X-Google-Thread: fb1f8,c22b6a58a0bd49d9
X-Google-Thread: fc2a5,c22b6a58a0bd49d9
X-Google-Thread: 112d1e,c22b6a58a0bd49d9
X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-
sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic
 /  plans for one?
Date: Sun, 06 Jan 2008 11:36:12 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13o2426q69gmc4c@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
<477f7cfc$1_7@news.bluewin.ch> <Hr-dnU4zydGoTB3anZ2dnUVZ_hCdnZ2d@comcast.com>
<13o1pk2fir5rdc3@corp.supernews.com>
In-Reply-To: <13o1pk2fir5rdc3@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 19
Xref: g2news1.google.com rec.audio.pro:178076 sci.electronics.equipment:9957
rec.audio.tech:40123 rec.radio.amateur.homebrew:15006
sci.electronics.design:310769
```

Richard Crowley wrote:

> "jack" wrote ...
>
>> National Semi still makes a "frequency to voltage" converter chip, so
>> does Analog.
>>
>> But here's a link to using a PLL -- from National Semi -- Application
>> Note 210
>> http://www.national.com/an/AN/AN-210.pdf
>

>
> Note that publication is 29 years old and I don't think any
> of the mentioned ICs are still in production any more.

Since when has that stopped real homebrewers? Ahh, I see a slew of cross-posted groups (reading from r.r.a.h)

Michael

From -1273310368647970859
X-Google-Thread: 10cf58,c22b6a58a0bd49d9
X-Google-Thread: 115730,c22b6a58a0bd49d9
X-Google-Thread: fb1f8,c22b6a58a0bd49d9
X-Google-Thread: fc2a5,c22b6a58a0bd49d9
X-Google-Thread: 112d1e,c22b6a58a0bd49d9
X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.germany.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!feeder.news-service.com!sn-xt-ams-06!sn-xt-ams-10!sn-xt-ams-03!sn-post-ams-02!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: "Richard Crowley" <rcrowley@xp7rt.net>
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic / plans for one?
Date: Sun, 6 Jan 2008 11:10:22 -0800
Organization: Remove number to reply
Message-ID: <13o29t04c2f4k7e@corp.supernews.com>
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
<477f7cfc$1_7@news.bluewin.ch> <Hr-dnU4zydGoTB3anZ2dnUVZ_hCdnZ2d@comcast.com>
<13o1pk2fir5rdc3@corp.supernews.com> <13o2426q69gmc4c@corp.supernews.com>
MIME-Version: 1.0
Content-Type: text/plain;
format=flowed;
charset="iso-8859-1";
reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-Complaints-To: abuse@supernews.com
Lines: 23
Xref: g2news1.google.com rec.audio.pro:178092 sci.electronics.equipment:9958
rec.audio.tech:40137 rec.radio.amateur.homebrew:15007
sci.electronics.design:310802

"msg" wrote ...
> Richard Crowley wrote:
>> "jack" wrote ...

>>
>>> National Semi still makes a "frequency to voltage" converter chip,
>>> so does Analog.
>>>
>>> But here's a link to using a PLL -- from National Semi --
>>> Application Note 210
>>> http://www.national.com/an/AN/AN-210.pdf
>>
>>
>> Note that publication is 29 years old and I don't think any
>> of the mentioned ICs are still in production any more.
>
> Since when has that stopped real homebrewers? Ahh, I see a slew of
> cross-
> posted groups (reading from r.r.a.h)

Don't get me wrong. I am working on a couple of projects
that could use circuits like that, but they are simply not
produciton-worthy anymore. :-(

From 3452248280735757143
X-Google-Thread: fc2a5,7c7e855c55cd10b5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 06 Jan 2008 18:14:32 -0600
From: "Jim" <kill-spam@no-spam.org>
Newsgroups: rec.radio.amateur.homebrew
References: <13milhpul74je3@corp.supernews.com>
<13o0455obpqk3e3@corp.supernews.com>
Subject: Re: FCC and CE EMC Certification
Date: Sun, 6 Jan 2008 16:14:31 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 080106-0, 01/06/2008), Outbound message
X-Antivirus-Status: Clean
Message-ID: <1fOdnXdG19918xzanZ2dnUVZ_tajnZ2d@comcast.com>
Lines: 41
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.181.200.74
X-Trace: sv3-2ZvBP+p7eSxRLKsw/b/+FtzBRNNvhORRbwbWn/BlVykgK/
pxUdnlXngu34oxwnhQW92IzQ05O1SEyJC!
g1hzdWLoIHVeqK6GpRyRQGx2XVa6m+buKes5GvX3sqsnRGpoSnfXFw/TiidrWyGQHTdvBesm3FCt!
oYaGxSPUg7l32gdEzPr6OXC74La84w==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net

X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:15008

> Why are some imported (to the U.S.) intentional radiators (such as
> RC toys, fitness heart-rate monitors, etc.) not FCC EMC Part 15
> certified (there is no FCC OET record on file)? These have CE
> EMC Certification and a CE 'number'; is there a treaty that
> exempts such devices from further FCC certification? Is there
> a publicly accessible database of CE 'numbers' similar to the
> FCC OET filings? I have found nothing of use on the 'net in
> these matters?
>

If memory serves, there are a couple of "exemptions" which might be what these units are using.

================

If the Effective Radiated Power is below a certain power level, then no FCC certification is required.

There is also, I think, certain frequency ranges which allow slightly higher power but still does not need FCC certification.

Jim
N6BIU

--

16:15 Pacific Time Zone
Jan 6 2008

International Time
00:15 UTC
07.01.2008

From 8909288349078927102
X-Google-Thread: fcc6e,8e72df5e84e891fb,start
X-Google-Thread: 11480d,8e72df5e84e891fb,start
X-Google-Thread: 108122,8e72df5e84e891fb,start

X-Google-Thread: fc2a5,8e72df5e84e891fb,start
X-Google-Thread: 10b9c8,8e72df5e84e891fb,start
X-Google-Attributes: gidfcc6e,gid11480d,gid108122,gidfc2a5,gid10b9c8,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!panix!panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1197011100@panix.com>
Followup-To: poster
Date: 7 Jan 2008 02:05:02 -0500
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 09 Feb 2008 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1199689500@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1199689503 8411 166.84.1.2 (7 Jan 2008 07:05:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 7 Jan 2008 07:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:52959 rec.radio.amateur.dx:3844 rec.radio.amateur.equipment:13742 rec.radio.amateur.homebrew:15009 rec.radio.info:647

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT

Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

```
From -6302680785802094520
X-Google-Thread: 10cf58,c22b6a58a0bd49d9
X-Google-Thread: 115730,c22b6a58a0bd49d9
X-Google-Thread: fb1f8,c22b6a58a0bd49d9
X-Google-Thread: fc2a5,c22b6a58a0bd49d9
X-Google-Thread: 112d1e,c22b6a58a0bd49d9
X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i72g2000hsd.googlegroups.com!not-for-
mail
From: mad.scientist.jr@gmail.com
Newsgroups: rec.audio.pro, sci.electronics.equipment, rec.audio.tech,
     rec.radio.amateur.homebrew, sci.electronics.design
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic /
     plans for one?
Date: Mon, 7 Jan 2008 10:13:40 -0800 (PST)
Organization: http://groups.google.com
Lines: 28
Message-ID: <ff5ff520-21a0-494d-a7c5-abe8593fc805@i72g2000hsd.googlegroups.com>
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
     <477f7cfc$1_7@news.bluewin.ch> <Hr-dnU4zydGoTB3anZ2dnUVZ_hCdnZ2d@comcast.com>
     <QvydnZPbtP8LSB3anZ2dnUVZ_rSrnZ2d@comcast.com>
NNTP-Posting-Host: 38.101.222.242
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1199729620 17337 127.0.0.1 (7 Jan 2008 18:13:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 7 Jan 2008 18:13:40 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i72g2000hsd.googlegroups.com; posting-host=38.101.222.242;
     posting-account=-2IdOAoAAAAuP4BOZLSw5XYf09oEsr3h
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
```

Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.audio.pro:178187 sci.electronics.equipment:9961
rec.audio.tech:40177 rec.radio.amateur.homebrew:15010
sci.electronics.design:310994

Thanks to everyone for your replies. I just want to do analog metering
with moving needle meters. I am aware that to meter volume/frequency
digitally, I can buy a mixer or tuner, or via computer with the
appropriate software. The meters in question are from an old Radio
Shack mixer (I'll have to find the model #, left it at home). No
matter what the exact specs of the meters however, the basics of the
circuit for metering volume or pitch/frequency should be the same.
Thanks again.

On Jan 6, 8:20 am, "William Sommerwerck" <grizzledgee...@comcast.net>
wrote:
> "jack" <jdwal...@comcast.net> wrote in message
>
> news:Hr-dnU4zydGoTB3anZ2dnUVZ_hCdnZ2d@comcast.com...
>
> > National Semi still makes a "frequency to voltage" converter chip,
> > so does Analog.
>
> > But here's a link to using a PLL -- from National Semi --
> > Application Note 210
> >http://www.national.com/an/AN/AN-210.pdf
>
> This is fine, but what about the accuracy and resolution of the analog meter
> used to read the output?
>
> It still isn't clear why the OP is insisting on an analog display.

From -1202365073245327583
X-Google-Thread: 10cf58,c22b6a58a0bd49d9
X-Google-Thread: 115730,c22b6a58a0bd49d9
X-Google-Thread: fb1f8,c22b6a58a0bd49d9
X-Google-Thread: fc2a5,c22b6a58a0bd49d9
X-Google-Thread: 112d1e,c22b6a58a0bd49d9
X-Google-Attributes: gid10cf58,gid115730,gidfb1f8,gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!aioe.org!fmmck
From: Fred McKenzie <fmmck@aol.com>
Newsgroups:
rec.audio.pro,sci.electronics.equipment,rec.audio.tech,rec.radio.amateur.homebrew,
sci.electronics.design
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic /
plans for one?
Followup-To: rec.radio.amateur.homebrew
Date: Mon, 07 Jan 2008 15:40:54 -0500

Organization: Aioe.org NNTP Server
Lines: 25
Message-ID: <fmmck-3EF1C0.15405407012008@nntp.aioe.org>
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
<477f7cfc$1_7@news.bluewin.ch> <Hr-dnU4zydGoTB3anZ2dnUVZ_hCdnZ2d@comcast.com>
<QvydnZPbtP8LSB3anZ2dnUVZ_rSrnZ2d@comcast.com> <ff5ff520-21a0-494d-a7c5-abe8593fc805@i72g2000hsd.googlegroups.com>
NNTP-Posting-Host: ujK1ZbC0Hvc/Y0Vi3WZRpQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.2 (PPC Mac OS X)
Xref: g2news1.google.com rec.audio.pro:178196 sci.electronics.equipment:9963
rec.audio.tech:40178 rec.radio.amateur.homebrew:15011
sci.electronics.design:311024

In article
<ff5ff520-21a0-494d-a7c5-abe8593fc805@i72g2000hsd.googlegroups.com>,
mad.scientist.jr@gmail.com wrote:

> I just want to do analog metering
> with moving needle meters.

MS-

I once had an automotive tachometer that hooked between the engine's points and ground, and was calibrated in RPM. I do not recall, but there may have been separate scales for 6 and 8 cylinders.

I don't think it had any active components, and didn't require an external power supply. It was measuring frequency by clipping, differentiating the waveform and reading the integral of the pulse on a sensitive meter movement. It was calibrated from a 60 Hz sine wave.

You may find something similar (or one with active circuits) if you search for analog tachometer circuit on the web. If you have an old automotive tachometer, just trace out its circuit.

Using it for higher audio frequencies should be a matter of calibration.

Fred

From -8213362655544045853
X-Google-Thread: fc2a5,7c7e855c55cd10b5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.tele.dk!feed118.news.tele.dk!not-for-mail
From: "Sven Lundbech" <oz7s@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <13milhpul74je3@corp.supernews.com>
Subject: Re: FCC and CE EMC Certification
Date: Mon, 7 Jan 2008 21:50:48 +0100
X-Priority: 3

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Lines: 38
Message-ID: <478290a6$0$15877$edfadb0f@dtext01.news.tele.dk>
Organization: TDC Totalloesninger
NNTP-Posting-Host: 83.88.152.195
X-Trace: 1199739046 dtext01.news.tele.dk 15877 83.88.152.195:42711
X-Complaints-To: abuse@post.tele.dk
Xref: g2news1.google.com rec.radio.amateur.homebrew:15012

"msg" <msg@_cybertheque.org_> skrev i en meddelelse
news:13milhpul74je3@corp.supernews.com...
> Greetings:
>
> Why are some imported (to the U.S.) intentional radiators (such as
> RC toys, fitness heart-rate monitors, etc.) not FCC EMC Part 15
> certified (there is no FCC OET record on file)? These have CE
> EMC Certification and a CE 'number'; is there a treaty that
> exempts such devices from further FCC certification? Is there
> a publicly accessible database of CE 'numbers' similar to the
> FCC OET filings? I have found nothing of use on the 'net in
> these matters?
>

As far that I remember, there exist some mutual agreements concerning
putting on the market CE-marked equipment in the US and vice versa.

> This is OT to r.r.a.h. in that it is often useful to get the
> schematic of an intentional radiator from the FCC filings or
> at least find freq. and emissions info about it when using
> parts from such a device in a homebrew project. I would like to
> do the same with CE certified devices and also learn why so
> much foreign-made stuff isn't in the FCC database.

There are no central database for CE marked equipment. The doc rests at the
manufacturer and/or the entity putting the equipment on the market.

>
> Regards,
>
> Michael

Regards
Sven

From -5685492478601012004

```
X-Google-Thread: fc2a5,c22b6a58a0bd49d9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i12g2000prf.googlegroups.com!not-for-
mail
From: Mike Rivers <mrivers@d-and-d.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic /
     plans for one?
Date: Mon, 7 Jan 2008 15:45:22 -0800 (PST)
Organization: http://groups.google.com
Lines: 14
Message-ID: <0e524943-0d06-4082-a89b-9d559f27e8bb@i12g2000prf.googlegroups.com>
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
     <477f7cfc$1_7@news.bluewin.ch> <Hr-dnU4zydGoTB3anZ2dnUVZ_hCdnZ2d@comcast.com>
     <QvydnZPbtP8LSB3anZ2dnUVZ_rSrnZ2d@comcast.com> <ff5ff520-21a0-494d-a7c5-
abe8593fc805@i72g2000hsd.googlegroups.com>
     <fmmck-3EF1C0.15405407012008@nntp.aioe.org>
NNTP-Posting-Host: 138.88.186.48
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1199749522 10788 127.0.0.1 (7 Jan 2008 23:45:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 7 Jan 2008 23:45:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i12g2000prf.googlegroups.com; posting-host=138.88.186.48;
     posting-account=LcOu_gkAAAD1mTBBNla6TZw0QcjfYTg3
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15013
```

On Jan 7, 3:40 pm, Fred McKenzie <fm...@aol.com> wrote:

> I once had an automotive tachometer that hooked between the engine's
> points and ground, and was calibrated in RPM. I do not recall, but
> there may have been separate scales for 6 and 8 cylinders.

The Mad Scientist still hasn't told us his application. Something like that could work if he wanted to measure a stable frequency but it would be of no use if he wanted to play music into it and have it dance to the notes. '

There is no point to this discussion. If he doesn't want a frequency meter for a single, continuous tone, he's barking up the wrong tree. His meter won't provide a useful display no matter what.

```
From -8867649136470566834
X-Google-Thread: fc2a5,c22b6a58a0bd49d9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: "Richard Crowley" <rcrowley@xp7rt.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: inexpensive analog audio pitch (frequency?) meter or schematic /
plans for one?
Date: Mon, 7 Jan 2008 17:46:20 -0800
Lines: 30
Message-ID: <5ug2vdF1hfs7tU1@mid.individual.net>
References: <3a43e5b9-c26b-4afe-8587-e48ff27c02b6@v4g2000hsf.googlegroups.com>
<477f7cfc$1_7@news.bluewin.ch> <Hr-dnU4zydGoTB3anZ2dnUVZ_hCdnZ2d@comcast.com>
<QvydnZPbtP8LSB3anZ2dnUVZ_rSrnZ2d@comcast.com> <ff5ff520-21a0-494d-a7c5-
abe8593fc805@i72g2000hsd.googlegroups.com>
<fmmck-3EF1C0.15405407012008@nntp.aioe.org>
X-Trace: individual.net t+FSVspWexmCaAc3Tu8EEQOPvYZ5+gsuuG0faNp0WJVamanaKH
Cancel-Lock: sha1:yOQMtb2CBQATDEXYRqwhkP8pwzM=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Xref: g2news1.google.com rec.radio.amateur.homebrew:15014

"Fred McKenzie"  wrote...
> In article
> <ff5ff520-21a0-494d-a7c5-abe8593fc805@i72g2000hsd.googlegroups.com>,
> mad.scientist.jr@gmail.com wrote:
>
>> I just want to do analog metering
>> with moving needle meters.
>
> MS-
>
> I once had an automotive tachometer that hooked between the engine's
> points and ground, and was calibrated in RPM.  I do not recall, but
> there may have been separate scales for 6 and 8 cylinders.
>
> I don't think it had any active components, and didn't require an
> external power supply.  It was measuring frequency by clipping,
> differentiating the waveform and reading the integral of the pulse on a
> sensitive meter movement.  It was calibrated from a 60 Hz sine wave.
>
> You may find something similar (or one with active circuits) if you
> search for analog tachometer circuit on the web.  If you have an old
> automotive tachometer, just trace out its circuit.
>
> Using it for higher audio frequencies should be a matter of calibration.

If you differentiate the signal enough for the range of 20-20KHz,
you end up with an indication indistinguishable from "volume"!  :-)
The request is fundamentally absurd.
```

```
From -8394332514395763700
X-Google-Thread: fc2a5,f67e61825a8ae519,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!u10g2000prn.googlegroups.com!not-for-
mail
From: lw1ecp <danyperez1@yahoo.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Man-made noise: why vertical polarized?
Date: Mon, 7 Jan 2008 19:50:42 -0800 (PST)
Organization: http://groups.google.com
Lines: 4
Message-ID: <7e30657f-b8cd-462b-b4ce-dd4935f503c0@u10g2000prn.googlegroups.com>
NNTP-Posting-Host: 190.139.172.170
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1199764243 22380 127.0.0.1 (8 Jan 2008 03:50:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 8 Jan 2008 03:50:43 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: u10g2000prn.googlegroups.com; posting-host=190.139.172.170;
     posting-account=J2bTrwoAAAA_H4qq0GLh7EO3_dPJZX9j
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; MEGAUPLOAD 1.0),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15015
```

I often find the statement that noise from electrical appliances has
mainly vertical polarization. Would anybody be so kind to explain
why?. Thanks!
Daniel Perez

```
From -3343380835588040063
X-Google-Thread: fc2a5,f67e61825a8ae519
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l1g2000hsa.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Man-made noise: why vertical polarized?
Date: Tue, 8 Jan 2008 12:40:09 -0800 (PST)
Organization: http://groups.google.com
Lines: 28
Message-ID: <2d95f9de-f18a-49e5-b329-605b3fa3cf28@l1g2000hsa.googlegroups.com>
References: <7e30657f-b8cd-462b-b4ce-dd4935f503c0@u10g2000prn.googlegroups.com>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
```

Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1199824809 26711 127.0.0.1 (8 Jan 2008 20:40:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 8 Jan 2008 20:40:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l1g2000hsa.googlegroups.com; posting-host=192.25.142.225;
posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:15016

On Jan 7, 7:50 pm, lw1ecp <danyper...@yahoo.com.ar> wrote:

> I often find the statement that noise from electrical appliances has
> mainly vertical polarization. Would anybody be so kind to explain
> why?. Thanks!
> Daniel Perez

At the surface of a perfect conductor, the electric field must be perpendicular to that surface. To the extent that ground is a good conductor, the electric field will be predominantly perpendicular to the surface of the ground. That is true of signals as well as noise. If you sense the electric field within a fairly small fraction of a wavelength of good ground, expect it to be mainly vertical.

Perhaps a more interesting thing is that commonly the noise from appliances and the like in the near field has an electric field component that's much larger than the magnetic field component: that is, the ratio of the two is much higher than it is in an electromagnetic wave. In that case, you can reject such local (near-field) noise by using a receiving antenna that is not sensitive to the electric field--for example, with a balanced small loop. Since you need to be in the near field for this to give much benefit, in a practical sense you probably won't get much benefit above perhaps 5MHz. But balanced loops (which are relatively insensitive to electric fields) are useful at 160 meters, the AM medium-wave broadcast band, and VLF/LF.

Cheers,
Tom

From -8548087305545987600
X-Google-Thread: fc2a5,ddd19c6576200d82
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
exabot.com!freenix!sn-xt-sjc-04!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: potting - hot melt gule and two part epoxy
Date: Tue, 18 Dec 2007 06:58:54 -0800

Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13mfo10tmlv2hd8@corp.supernews.com>
References: <bea2b617-d630-4d0b-94eb-b7b61df630f4@i12g2000prf.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 14
Xref: g2news1.google.com rec.radio.amateur.homebrew:14866

Hot melt glue has a basic problem - it melts when it gets hot. It forever limits where the stuff can go. They must be kept out of a hot car, and the components cannot get hot.

I have used epoxy before and it works fine for all sorts of potting projects. You can color it or get it clear. Rf properties are good.

Remember, however, that when you encapsulate something, you trap the heat inside - so the temperature rise of the encapsulated components is greater than free air.

Colin K7FM

From 711607635911127099
X-Google-Thread: fc2a5,87fcae72d864e8e3,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!j20g2000hsi.googlegroups.com!not-for-mail
From: "Dwight D. Eisenhower" <rottedHonda@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: (6) vintage tube radios-all-$25-CHRISTMAS SALE
Date: Tue, 18 Dec 2007 09:55:08 -0800 (PST)
Organization: http://groups.google.com
Lines: 14
Message-ID: <73f23903-7647-4dc6-be9b-6a5d33837b6f@j20g2000hsi.googlegroups.com>
NNTP-Posting-Host: 209.74.23.24
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1198000509 11126 127.0.0.1 (18 Dec 2007 17:55:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 18 Dec 2007 17:55:09 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j20g2000hsi.googlegroups.com; posting-host=209.74.23.24;
     posting-account=r8XCBQoAAABNhqpsAkZNbLs4uIwOFVFO
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.5; Windows 98; Win 9x

4.90),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14867

http://groups.google.com/group/alt.collecting.8-track-tapes/topics

RCA MODEL 1-RA-45 AM TUBE RADIO-BAKELITE CASE

GE MODEL 226 AM TUBE RADIO

GE CLOCK RADIO AM TUBE

RCA MODEL 8X541 AM TUBE RADIO- PARTS ONLY, NOT WORKING

RCA MODEL RHC13W AM/FM TUBE RADIO

GE MODEL B221 AM CLOCK RADIO SOLID STATE

From -4739772119447546171
X-Google-Thread: fc2a5,6c7f1ec88136fc1c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wn14feed!worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
From: You <You@shadow.orgs>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MI5-Persecution: MI5 Have Systematically Destroyed My Life (31416)
Organization: You and my shadow
References: <m07111617594282@4ax.com> <47656af3$0$11066$4c368faf@roadrunner.com> <13mba5fhg71r4ff@corp.supernews.com> <4765b347$0$30087$ecde5a14@news.coretel.net> <fc39abbe-149c-4029-9774-d00a26d26a25@i29g2000prf.googlegroups.com> <4766d5fd$0$30135$ecde5a14@news.coretel.net> <dcc22d67-2993-48b8-86ec-acf3fa95dbf1@i29g2000prf.googlegroups.com>
User-Agent: MT-NewsWatcher/3.4 (PPC Classic)
Message-ID: <You-2BF908.08592318122007@netnews.worldnet.att.net>
Lines: 11
Date: Tue, 18 Dec 2007 17:58:28 GMT
NNTP-Posting-Host: 12.12.208.91
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1198000708 12.12.208.91 (Tue, 18 Dec 2007 17:58:28 GMT)
NNTP-Posting-Date: Tue, 18 Dec 2007 17:58:28 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:14868

In article
<dcc22d67-2993-48b8-86ec-acf3fa95dbf1@i29g2000prf.googlegroups.com>,
"pdrahn@coinet.com" <co_farmer@yahoo.com> wrote:

>
> No, I don't have an aluminum foil hat!
>

> KD7HB

that is an obvious statement, because if you did, none of these alien
beam messages, would be showing your posts....

```
From -1106313346625205567
X-Google-Thread: fc2a5,ddd19c6576200d82
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!postnews.google.com!
s12g2000prg.googlegroups.com!not-for-mail
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: potting - hot melt gule and two part epoxy
Date: Tue, 18 Dec 2007 10:05:27 -0800 (PST)
Organization: http://groups.google.com
Lines: 44
Message-ID: <96108bc8-cfdc-4c67-bb8f-4014f09c6ae8@s12g2000prg.googlegroups.com>
References: <bea2b617-d630-4d0b-94eb-b7b61df630f4@i12g2000prf.googlegroups.com>
NNTP-Posting-Host: 72.0.177.83
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1198001127 13308 127.0.0.1 (18 Dec 2007 18:05:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 18 Dec 2007 18:05:27 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s12g2000prg.googlegroups.com; posting-host=72.0.177.83;
     posting-account=LQVNZAkAAAAHQ9vQRrCB-Qc9fLbREhw4
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14869
```

On Dec 18, 12:28 am, MarkAren <markare...@yahoo.com> wrote:

> Hi All,
>
> Has anyone attempted to use good old fashioned hot melt glue as an
> encapsulant for modules ?
>
> Probably needs melting in a pot over a flame (with appropriate care).
>
> A mould could me made out of Plexiglass with appropriate draft
> (angles) and high temperature release agent.
>
> A second thought is to use standard two part fiberglass mix, obviously
> a lot more rigid, but potting boxes are likely to be needed also.
>
> I guess I could use thin walled pipe to house a long rectifier stack
> and associated capacitors.
>
> Both of these options seem significantly less expensive than standard

> epoxy potting compound...
>
> Any thoughts ?
>
> Mark

The advantage of hot melt glue is it hardens quickly and even if it leaks out of your mold, will stop when cool. On the other hand, 2 part epoxy potting compound when mixed is about as thin as water and will stay that way for a couple of hours. It will leak from even the smallest crack or hole.

We use the 2-part epoxy potting compound in custom milled enclosures for motorcycle control units. The enclosure has two connectors that have to be sealed in with RTV before the potting compound is added.

This also occurs to me while thinking about our past potting runs. The hot melt glue will NOT fill all the voids in your unit. Air bubbles will be trapped and will not be able to get out. The epoxy we use takes 24 hours to harden at room temp and this allows time for air bubbles to escape. We have to add more epoxy to each unit for the first 10-15 minutes as air escapes.

Hope this helps a little.

Paul, KD7HB

```
From 4341323383156256861
X-Google-Thread: fc2a5,ddd19c6576200d82
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feed.cgocable.net!
feed.news.qwest.net!mpls-nntp-06.inet.qwest.net!news.qwest.net!not-for-mail
Date: Tue, 18 Dec 2007 11:21:18 -0800
From: PhattyMo <PhattyMo@nospam.gmail>
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: potting - hot melt gule and two part epoxy
References: <bea2b617-d630-4d0b-94eb-b7b61df630f4@i12g2000prf.googlegroups.com>
<96108bc8-cfdc-4c67-bb8f-4014f09c6ae8@s12g2000prg.googlegroups.com>
In-Reply-To: <96108bc8-cfdc-4c67-bb8f-4014f09c6ae8@s12g2000prg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 56
Message-ID: <47681da2$0$504$815e3792@news.qwest.net>
Organization: Qwest Communications Corporation
NNTP-Posting-Host: a772f5ad.news.qwest.net
X-Trace: DXC=O2^LXc?
0=cZj[AEkXmiMEZF85SKJoGf>T=JCC4;iWgcV3<4fknPZf>XTi]mQXjR>fXAZ@mm1LX^\Xo^=DMDBO5B^T
L=Mn9:i9l^
X-Complaints-To: news@qwest.net
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:14870

pdrahn@coinet.com wrote:
> On Dec 18, 12:28 am, MarkAren <markare...@yahoo.com> wrote:
>> Hi All,
>>
>> Has anyone attempted to use good old fashioned hot melt glue as an
>> encapsulant for modules ?
>>
>> Probably needs melting in a pot over a flame (with appropriate care).
>>
>> A mould could me made out of Plexiglass with appropriate draft
>> (angles) and high temperature release agent.
>>
>> A second thought is to use standard two part fiberglass mix, obviously
>> a lot more rigid, but potting boxes are likely to be needed also.
>>
>> I guess I could use thin walled pipe to house a long rectifier stack
>> and associated capacitors.
>>
>> Both of these options seem significantly less expensive than standard
>> epoxy potting compound...
>>
>> Any thoughts ?
>>
>> Mark
>
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> leaks out of your mold, will stop when cool. On the other hand, 2 part
> epoxy potting compound when mixed is about as thin as water and will
> stay that way for a couple of hours. It will leak from even the
> smallest crack or hole.
>
> We use the 2-part epoxy potting compound in custom milled enclosures
> for motorcycle control units. The enclosure has two connectors that
> have to be sealed in with RTV before the potting compound is added.
>
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> hot melt glue will NOT fill all the voids in your unit. Air bubbles
> will be trapped and will not be able to get out. The epoxy we use
> takes 24 hours to harden at room temp and this allows time for air
> bubbles to escape. We have to add more epoxy to each unit for the
> first 10-15 minutes as air escapes.
>
> Hope this helps a little.
>
> Paul, KD7HB

One other concern a few people expressed when I was looking for
"alternative" potting compounds- Most epoxies,etc. contract a bit when
they harden/cure. This can (and apparently has,in instances?) "sheared"
components from the PCB's they were soldered to.

The device might work fine,ya pot it,and it works fine..than the epoxy cures,and it doesn't work anymore because of 'sheared' leads,and cracked solder joints.
Just something to be aware of.

```
From 1100500926806808184
X-Google-Thread: fc2a5,ddd19c6576200d82
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
140.99.99.194.MISMATCH!news-in-02.newsfeed.easynews.com!easynews.com!easynews!sn-
xt-sjc-03!sn-xt-sjc-08!sn-xt-sjc-01!sn-post-sjc-02!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: potting - hot melt gule and two part epoxy
Date: Tue, 18 Dec 2007 11:26:36 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13mg7neg2spbg4f@corp.supernews.com>
References: <bea2b617-d630-4d0b-94eb-b7b61df630f4@i12g2000prf.googlegroups.com>
<96108bc8-cfdc-4c67-bb8f-4014f09c6ae8@s12g2000prg.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 9
Xref: g2news1.google.com rec.radio.amateur.homebrew:14871
```

"pdrahn@coinet.com" <co_farmer@yahoo.com> wrote in message
news:96108bc8-cfdc-4c67-bb8f-4014f09c6ae8@s12g2000prg.googlegroups.com...

> This also occurs to me while thinking about our past potting runs. The
> hot melt glue will NOT fill all the voids in your unit. Air bubbles
> will be trapped and will not be able to get out.

Other than appearance, is there a downside to trapped air bubbles?

```
From -5847091571107337165
X-Google-Thread: fc2a5,ddd19c6576200d82
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!peer1.news.newnet.co.uk!
194.159.246.34.MISMATCH!peer-uk.news.demon.net!kibo.news.demon.net!
news.demon.co.uk!demon!clintsmc.demon.co.uk!clint
From: Clint Sharp <clint@clintsmc.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
```

```
Subject: Re: potting - hot melt gule and two part epoxy
Date: Tue, 18 Dec 2007 17:23:27 +0000
Organization: Little
Lines: 22
Message-ID: <glsQdUEPIAaHFwx4@clintsmc.demon.co.uk>
References: <bea2b617-d630-4d0b-94eb-b7b61df630f4@i12g2000prf.googlegroups.com>
 <13mfo10tmlv2hd8@corp.supernews.com>
NNTP-Posting-Host: clintsmc.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1198007963 19453 62.49.16.63 (18 Dec 2007 19:59:23 GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Tue, 18 Dec 2007 19:59:23 +0000 (UTC)
User-Agent: Turnpike/6.05-S (<KK9L$RELcv7URK87Nl0LbGuNNt>)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14872

In message <13mfo10tmlv2hd8@corp.supernews.com>, COLIN LAMB
<k7fm@teleport.com> writes
>Hot melt glue has a basic problem - it melts when it gets hot.  It forever
>limits where the stuff can go.  They must be kept out of a hot car, and the
>components cannot get hot.
>
>I have used epoxy before and it works fine for all sorts of potting
>projects.  You can color it or get it clear.  Rf properties are good.
>
>Remember, however, that when you encapsulate something, you trap the heat
>inside - so the temperature rise of the encapsulated components is greater
>than free air.
And don't forget, anything you encapsulate becomes a potential shrapnel
bomb. I can vouch for this, having had a near miss with more than one
device that had been factory potted in epoxy.
>
>Colin  K7FM
>
>

--
Clint Sharp


From -3451152673464014109
X-Google-Thread: fc2a5,ddd19c6576200d82
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 18 Dec 2007 17:05:19 -0600
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
Subject: Re: potting - hot melt gule and two part epoxy
Newsgroups: rec.radio.amateur.homebrew
Date: Tue, 18 Dec 2007 15:05:19 -0800
References: <bea2b617-d630-4d0b-94eb-b7b61df630f4@i12g2000prf.googlegroups.com>
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User-Agent: KNode/0.8.2
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <8PWdncWU6YCyz_XanZ2dnUVZ8v2vnZ2d@pipex.net>
Lines: 11
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.106.227.184
X-Trace: sv3-FDv0/VpZmc67xIl/
UCRt9RWwgchzn2f5HRQ5Gok0HgSF8cvKAZ82zXKs3p79ehROmwqY3diD8imc4Fp!
a4Z8gVS2dnxNGfbL2X3Y6CyMzcZYBBraBBYXndW7748kjTMnikQdGNXeTptrHPpymcLH6o3DyVfE!
r+iQ8R2H3avqVL4zpQ24NFnbZI8=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14873

MarkAren wrote:

> Both of these options seem significantly less expensive than standard
> epoxy potting compound...
>
> Any thoughts ?
======================
Hot melt ,when fluid, might have too high a temperature for the components
to be encapsulated.

Frank      KN6WH   / GM0CSZ


From -5658125018672568263
X-Google-Thread: fc2a5,ddd19c6576200d82
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!
not-for-mail
NNTP-Posting-Date: Tue, 18 Dec 2007 17:13:37 -0600
Newsgroups: rec.radio.amateur.homebrew
From: gwhite@alum.mit.edu (Doug White)
Subject: Re: potting - hot melt gule and two part epoxy
References: <bea2b617-d630-4d0b-94eb-b7b61df630f4@i12g2000prf.googlegroups.com>
<96108bc8-cfdc-4c67-bb8f-4014f09c6ae8@s12g2000prg.googlegroups.com>
<47681da2$0$504$815e3792@news.qwest.net>
X-Newsreader: News Xpress 2.01
Date: Tue, 18 Dec 2007 23:13:40 GMT
Message-ID: <TLqdnZp4vYe_yfXanZ2dnUVZ_oOnnZ2d@rcn.net>
Lines: 70
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 146.115.115.96
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X-Trace: sv3-b4PcPFygwVQBVswRgp/Ffd7jWBGPpfn/3aW+YYNMt+cjpKKk6Kl8aa+XRZ1gIkaY5voh/
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PnKrRia!F3k=
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14874

Keywords:
In article <47681da2$0$504$815e3792@news.qwest.net>, PhattyMo
<PhattyMo@nospam.gmail> wrote:
>pdrahn@coinet.com wrote:
>> On Dec 18, 12:28 am, MarkAren <markare...@yahoo.com> wrote:
>>> Hi All,
>>>
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>>>
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```

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>>
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>
>
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>components from the PCB's they were soldered to.
>The device might work fine,ya pot it,and it works fine..than the epoxy
>cures,and it doesn't work anymore because of 'sheared' leads,and cracked
>solder joints.
>Just something to be aware of.

Some "pro" potting compounds are 2-part RTV rubber. This presumably has
a bit more "give" than a rigid epoxy & is less likely to rip parts off a
board. Another thing to watch out for with two-part materials is that
the ones that aren't designed for potting can get very hot when they
cure. That's one reason you want a very slow curing cycle.

A long time ago I potted a bunch of satellite circuitry in an epoxy
filled with hollow glass microspheres to make it light. The thermal
conductivity was terrible, so you had to be careful to heat sink
anything that might get warm.

Doug White

From -8718299163088951154
X-Google-Thread: fc2a5,ddd19c6576200d82
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 18 Dec 2007 17:15:11 -0600
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
Subject: Re: potting - hot melt gule and two part epoxy
Newsgroups: rec.radio.amateur.homebrew
Date: Tue, 18 Dec 2007 15:15:11 -0800
References: <bea2b617-d630-4d0b-94eb-b7b61df630f4@i12g2000prf.googlegroups.com>
<OdSdnW6kvcA-SfranZ2dnUVZ_h2pnZ2d@comcast.com>
User-Agent: KNode/0.8.2
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <ELudndwfKcHiyfXanZ2dnUVZ8tuqnZ2d@pipex.net>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.106.227.184

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X-Trace: sv3-
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anyTIhGkvSqpBrBS9pBdC8FvM/HkVQnCG7UV3F7wfcHmIbktxdxueM0K5vYvgwQOndfQV1j/JRKJ!
ey7XtOGda2MUQTacOU2dvHYTj7w=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14875

Pete KE9OA wrote:

> TenTec used hot melt glue in the VCO modules of the Paragon transceiver,
> so this glue probably has good RF characteristics (hopefully). The
> expansion and contraction of this glue over varying temperatures did cause
> the solder joints to fracture over the years...........this was the
> downfall of the Paragon.
======================
In 1991 I bought a second hand TenTec Paragon trx ....still going strong as
my main HF transceiver.     But tnx for the above .........if VCO ever
fails I know what  the reason could be.

Frank      KN6WH      /    GM0CSZ




From -7340265674992804450
X-Google-Thread: fc2a5,ddd19c6576200d82
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!pd7cy1no!pd7cy2no!shaw.ca!pd7urf3no.POSTED!
53ab2750!not-for-mail
X-Trace-PostClient-IP: 24.68.20.33
From: Yaz Gates <yazgates@hotmail.com>
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: potting - hot melt gule and two part epoxy
References: <bea2b617-d630-4d0b-94eb-b7b61df630f4@i12g2000prf.googlegroups.com>
In-Reply-To: <bea2b617-d630-4d0b-94eb-b7b61df630f4@i12g2000prf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 28
Message-ID: <pPY9j.1452$Tx.332@pd7urf3no>
Date: Tue, 18 Dec 2007 23:35:49 GMT
NNTP-Posting-Host: 24.64.223.206
X-Complaints-To: abuse@shaw.ca
X-Trace: pd7urf3no 1198020949 24.64.223.206 (Tue, 18 Dec 2007 16:35:49 MST)
NNTP-Posting-Date: Tue, 18 Dec 2007 16:35:49 MST
```

Organization: Shaw Residential Internet
Xref: g2news1.google.com rec.radio.amateur.homebrew:14876

MarkAren wrote:
> Hi All,
>
> Has anyone attempted to use good old fashioned hot melt glue as an
> encapsulant for modules ?
>
> Probably needs melting in a pot over a flame (with appropriate care).
>
> A mould could me made out of Plexiglass with appropriate draft
> (angles) and high temperature release agent.
>
> A second thought is to use standard two part fiberglass mix, obviously
> a lot more rigid, but potting boxes are likely to be needed also.
>
> I guess I could use thin walled pipe to house a long rectifier stack
> and associated capacitors.
>
> Both of these options seem significantly less expensive than standard
> epoxy potting compound...
>
> Any thoughts ?
>
> Mark

Watch out for resins or epoxy. There are big stains put on the parts
when it sets, and again over temperature changes. I've tried it, and had
parts break in two inside the resin. The potting has to have some give.

Jim

From 4775968622097351790
X-Google-Thread: fc2a5,ddd19c6576200d82
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!solaris.cc.vt.edu!
news.vt.edu!news.netins.net!not-for-mail
From: Tehrasha Darkon <darkon@netins.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: potting - hot melt gule and two part epoxy
Date: Wed, 19 Dec 2007 05:49:01 +0000 (UTC)
Organization: netINS InterNetNews site
Lines: 33
Message-ID: <pan.2007.12.19.05.50.18@netins.net>
References: <bea2b617-d630-4d0b-94eb-b7b61df630f4@i12g2000prf.googlegroups.com>
NNTP-Posting-Host: desm-35-082.dsl.netins.net
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
X-Trace: news.netins.net 1198043341 11446 167.142.35.82 (19 Dec 2007 05:49:01 GMT)
X-Complaints-To: abuse@netins.net

NNTP-Posting-Date: Wed, 19 Dec 2007 05:49:01 +0000 (UTC)
User-Agent: Pan/0.132 (Waxed in Black)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14877

On Tue, 18 Dec 2007 00:28:58 -0800, MarkAren wrote:

> Hi All,
>
> Has anyone attempted to use good old fashioned hot melt glue as an
> encapsulant for modules ?
>
> Probably needs melting in a pot over a flame (with appropriate care).
>
> A mould could me made out of Plexiglass with appropriate draft (angles)
> and high temperature release agent.
>
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> lot more rigid, but potting boxes are likely to be needed also.
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> associated capacitors.
>
> Both of these options seem significantly less expensive than standard
> epoxy potting compound...
>
> Any thoughts ?
>
> Mark

Im suprised nobody has bothered to ask this....

What is the potting being used for? Moisture, vibration, HV isolation ??

Depending on the use, the 'good enough' alternative might vary considerably.

--Teh

From -2476167510771139716
X-Google-Thread: fc2a5,7c7e855c55cd10b5,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!sn-xt-sjc-04!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: FCC and CE EMC Certification
Date: Wed, 19 Dec 2007 11:38:57 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13milhpul74je3@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)

X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 21
Xref: g2news1.google.com rec.radio.amateur.homebrew:14878

Greetings:

Why are some imported (to the U.S.) intentional radiators (such as RC toys, fitness heart-rate monitors, etc.) not FCC EMC Part 15 certified (there is no FCC OET record on file)? These have CE EMC Certification and a CE 'number'; is there a treaty that exempts such devices from further FCC certification? Is there a publicly accessible database of CE 'numbers' similar to the FCC OET filings? I have found nothing of use on the 'net in these matters?

This is OT to r.r.a.h. in that it is often useful to get the schematic of an intentional radiator from the FCC filings or at least find freq. and emissions info about it when using parts from such a device in a homebrew project. I would like to do the same with CE certified devices and also learn why so much foreign-made stuff isn't in the FCC database.

Regards,

Michael

From 2629865015114394803
X-Google-Thread: fc2a5,2de2a9c2d85a6e22,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!syros.belnet.be!
news.belnet.be!eweka.nl!hq-usenetpeers.eweka.nl!194.97.5.5.MISMATCH!
newsfeed.freenet.de!newsfeed0.kamp.net!newsfeed.kamp.net!feeder.news-service.com!
sn-xt-ams-06!sn-xt-ams-10!sn-xt-ams-05!sn-post-ams-02!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: MGFoster <me@privacy.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 'Tenna Tuner kit clarification
Date: Wed, 19 Dec 2007 20:21:31 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13mjrcbdp018n2c@corp.supernews.com>
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 25

Xref: g2news1.google.com rec.radio.amateur.homebrew:14879

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

As I understand the description of the kit the Tuner allows you to tune
the antenna to the best SWR when attached to the ATU/SWR meter, but if
just attached to the antenna it will declare the antenna resonant freq
(in morse code). Is this correct - that it will give the resonant freq
of the antenna?

Thanks,
--
MGFoster:::mgf00 <at> earthlink <decimal-point> net
Oakland, CA (USA)
** Respond only to this newsgroup. I DO NOT respond to emails **

-----BEGIN PGP SIGNATURE-----
Version: PGP for Personal Privacy 5.0
Charset: noconv

iQA/AwUBR2nto4echKqOuFEgEQLnxgCgp2P2r1v7yWOGdM//8kCqJoKfZCsAoIp5
jRz1clrQZig4EeegBQrHTJRF
=kivZ
-----END PGP SIGNATURE-----

From 6631590392945252337
X-Google-Thread: fc2a5,2bd916c5fd7f2270,start
X-Google-Thread: fc8b1,2bd916c5fd7f2270,start
X-Google-Thread: 108122,2bd916c5fd7f2270,start
X-Google-Thread: 111d0a,2bd916c5fd7f2270,start
X-Google-Thread: 113975,2bd916c5fd7f2270,start
X-Google-Attributes: gidfc2a5,gidfc8b1,gid108122,gid111d0a,gid113975,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e6g2000prf.googlegroups.com!not-for-mail
From: "bill.meara@gmail.com" <bill.meara@gmail.com>
Newsgroups: rec.radio.amateur.homebrew, rec.radio.amateur.boatanchors,
rec.radio.amateur.equipment, sci.electronics.basics, sci.astro.amateur
Subject: New issue of SolderSmoke
Date: Wed, 19 Dec 2007 21:17:51 -0800 (PST)
Organization: http://groups.google.com
Lines: 54
Message-ID: <66bc71ac-9e90-4556-b2c0-3b6ee3bab378@e6g2000prf.googlegroups.com>
NNTP-Posting-Host: 81.208.83.208
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1198127872 18237 127.0.0.1 (20 Dec 2007 05:17:52 GMT)
X-Complaints-To: groups-abuse@google.com

NNTP-Posting-Date: Thu, 20 Dec 2007 05:17:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e6g2000prf.googlegroups.com; posting-host=81.208.83.208;
posting-account=ePxsiwkAAACeKyenV1cL73nSaGPyDy3Q
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14880
rec.radio.amateur.boatanchors:13470 rec.radio.amateur.equipment:13637
sci.electronics.basics:66757 sci.astro.amateur:96439

SolderSmoke!
A SHOW FOR ELECTRONICS HOMEBREWERS!

http://www.soldersmoke.com

Listen at: http://www.soldersmoke.com

SolderSmoke #72

December 19, 2007
M0HBR's Bollywood debut.
Alien hams.
Blackboxophobia.
Solar power (in Rome and on Mars).
TechShop.
South Pole IT.
Mixer madness.
The Radio Club of America.
200 Meters Index.
Peter Dahl.
MAILBAG: Al on audio quality,
WB2REW on Yogi Berra,
W9ILF's tube type mp3 amp,
G8SEQ's bad case of "The Knack",
N8XMS's "Curiosity Curse."

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software.
http://www.soldersmoke.com/soldersmoke.rss

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site below and listen to the latest program (and
earlier editions) using the audio software on your
computer.

http://www.soldersmoke.com

All the programs are available here.

I hope you enjoy the program. Please send us feedback.

73 from Rome
Bill M0HBR N2CQR CU2JL
http://www.gadgeteer.us

From 6004441908485711789
X-Google-Thread: fc2a5,2de2a9c2d85a6e22
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.alt.net!sn-xt-sjc-05!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 'Tenna Tuner kit clarification
Date: Wed, 19 Dec 2007 22:24:23 -0800
Organization: Home for Obscure Mythical Beings
Message-ID: <ndep35-bp8.ln1@radagast.org>
References: <13mjrcbdp018n2c@corp.supernews.com>
X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
X-Complaints-To: abuse@supernews.com
Lines: 38
Xref: g2news1.google.com rec.radio.amateur.homebrew:14881

>As I understand the description of the kit the Tuner allows you to tune
>the antenna to the best SWR when attached to the ATU/SWR meter, but if
>just attached to the antenna it will declare the antenna resonant freq
>(in morse code). Is this correct - that it will give the resonant freq
>of the antenna?

If you're referring to the KD1JV 'Tenna Dipper kit offered through the Four States QRP club, then as I read it, it's basically a tunable signal generator (with a morse-code readout) and an SWR analysis bridge of the simple "the LED goes out when the bridge seens a near-to-50-ohm load" variety. It's a very simple version (a subset) of what you'd find in an MFJ or Autek or similar antenna analyzer.

You can hook it directly to an antenna, set the operating frequency (using the switches, dial, and the morse readout), and then tweak the antenna until the LED goes out... at which point your antenna is tuned.

Alternatively, you can hook it to an antenna, select the band, rotate the knob until the LED goes out, and then use the morse readout to determine the frequency at which the good match has been found.

Or, you can hook it to the "transceiver" side of an antenna tuner/transmatch, select the frequency, and then adjust the ATU until the LED goes out.

In any case, if you can't get the LED to go out, then you don't have a good match. You won't necessarily know why, or by how much the antenna is out of tune for the desired band.

Looks like a fun little kit... quite a bit of functionality in a small package for a small price. Combine it with a Norcal BLT or similar QRP transmatch, maybe?

--
Dave Platt <dplatt@radagast.org>   AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From 622086375190536676
X-Google-Thread: fc2a5,dcf57ce866c0027a,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!cleanfeed4-b.proxad.net!nnrp13-1.free.fr!not-for-mail
From: "Max" <Max@nospam.fr>
Newsgroups: rec.radio.amateur.homebrew
Subject: Meter FL-2100Z
Date: Thu, 20 Dec 2007 08:55:21 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Lines: 9
Message-ID: <476a1c61$0$6910$426a74cc@news.free.fr>
Organization: Guest of ProXad - France
NNTP-Posting-Date: 20 Dec 2007 08:40:17 MET
NNTP-Posting-Host: 82.235.200.195
X-Trace: 1198136417 news-3.free.fr 6910 82.235.200.195:1196
X-Complaints-To: abuse@proxad.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:14882

Hello,
The panel meter (plate voltage 0-3Kv) of my Linear amplifier fl-2100Z is broken.
Do you know or can find spare parts.
Or you know the characteristic electric of the panel meter ?
Thanks
Max

```
From -7026520252474448112
X-Google-Thread: fc2a5,5d277ed169b923b2,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q3g2000hsg.googlegroups.com!not-for-
mail
From: "jungdonitalynn@gmail.com" <jungdonitalynn@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Hi to all
Date: Thu, 20 Dec 2007 02:12:00 -0800 (PST)
Organization: http://groups.google.com
Lines: 8
Message-ID: <8e7af70b-0e34-43f2-8f49-2f72a61676c1@q3g2000hsg.googlegroups.com>
NNTP-Posting-Host: 68.249.100.107
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1198145520 12170 127.0.0.1 (20 Dec 2007 10:12:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 20 Dec 2007 10:12:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q3g2000hsg.googlegroups.com; posting-host=68.249.100.107;
     posting-account=6JscLwoAAACp_h5my69LSVYIehpfzreu
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; ru; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14883

Take a look at this sites
 http://3d-hentai.hentai4you.info/3d-hentai-schoolgirl.html 3d hentai
schoolgirl
 http://3d-hentai.hentai4you.info/porn-animation-anime-3d-hentai.html
porn animation anime 3d hentai
 http://3d-hentai.hentai4you.info/gay-3d-hentai.html gay 3d hentai
 http://3d-hentai.hentai4you.info/hentai-3d.html hentai 3d
 http://3d-hentai.hentai4you.info/hentai-3d-video.html hentai 3d video


From 5457263472390060616
X-Google-Thread: fc2a5,2de2a9c2d85a6e22
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!sn-xt-sjc-03!sn-
xt-sjc-01!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-
mail
From: MGFoster <me@privacy.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 'Tenna Tuner kit clarification
Date: Thu, 20 Dec 2007 04:04:31 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13mkmgebtt2n2fa@corp.supernews.com>
```

```
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
MIME-Version: 1.0
References: <13mjrcbdp018n2c@corp.supernews.com> <ndep35-bp8.ln1@radagast.org>
In-Reply-To: <ndep35-bp8.ln1@radagast.org>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 26
Xref: g2news1.google.com rec.radio.amateur.homebrew:14884

Dave Platt wrote:
>> As I understand the description of the kit the Tuner allows you to tune
>> the antenna to the best SWR when attached to the ATU/SWR meter, but if
>> just attached to the antenna it will declare the antenna resonant freq
>> (in morse code).  Is this correct - that it will give the resonant freq
>> of the antenna?
>
> If you're referring to the KD1JV 'Tenna Dipper kit offered through the
> Four States QRP club,
<SNIP>
>
> You can hook it directly to an antenna, set the operating frequency
> (using the switches, dial, and the morse readout), and then tweak the
> antenna until the LED goes out... at which point your antenna is tuned.
>
<SNIP>
>
> Looks like a fun little kit... quite a bit of functionality in a small
> package for a small price.  Combine it with a Norcal BLT or similar
> QRP transmatch, maybe?
>

Yes, that's what I was hoping to do.  Thanks for the confirmation.
--
MGFoster:::mgf00
Oakland, CA (USA)
```

```
From 4771024804190714423
X-Google-Thread: fc2a5,ddd19c6576200d82
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!a35g2000prf.googlegroups.com!not-for-
mail
From: Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: potting - hot melt gule and two part epoxy
Date: Thu, 20 Dec 2007 04:26:51 -0800 (PST)
Organization: http://groups.google.com
Lines: 35
Message-ID: <50828058-9363-43df-a50d-f379abbe48c4@a35g2000prf.googlegroups.com>
References: <bea2b617-d630-4d0b-94eb-b7b61df630f4@i12g2000prf.googlegroups.com>
NNTP-Posting-Host: 218.215.181.168
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1198153611 6460 127.0.0.1 (20 Dec 2007 12:26:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 20 Dec 2007 12:26:51 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a35g2000prf.googlegroups.com; posting-host=218.215.181.168;
     posting-account=LRLqpgkAAACt8OsWZnclc0j8ufDGwSA0
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14885
```

On Dec 18, 7:28 pm, MarkAren <markare...@yahoo.com> wrote:

> Hi All,
>
> Has anyone attempted to use good old fashioned hot melt glue as an
> encapsulant for modules ?
>
> Probably needs melting in a pot over a flame (with appropriate care).
>
> A mould could me made out of Plexiglass with appropriate draft
> (angles) and high temperature release agent.
>
> A second thought is to use standard two part fiberglass mix, obviously
> a lot more rigid, but potting boxes are likely to be needed also.
>
> I guess I could use thin walled pipe to house a long rectifier stack
> and associated capacitors.
>
> Both of these options seem significantly less expensive than standard
> epoxy potting compound...
>
> Any thoughts ?
>
> Mark

Epoxy, as described by others, tends to stress the components - one notable job I had was the vco in a Yaesu FT480R - took AGES to chip away with a fine wood chisel after using a blowtorch to open up the brass enclosure.....one of those "personal challenge" jobs.

I use good old fashioned beeswax. Good rf properties, easy to use, easy to dig out if needed. Bugger all mechanical strength, but ideal for vibration damping ie oscillators etc. Repotted the Yaesu VCO, no reported problems after 3 years....

Andrew VK3BFA.

```
From -5780424100757583236
X-Google-Thread: fc2a5,dcf57ce866c0027a
```

```
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-
media.com!hw-filter.lga!newsfe02.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <476a1c61$0$6910$426a74cc@news.free.fr>
Subject: Re: Meter FL-2100Z
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <Okvaj.18$FU.3@newsfe02.lga>
NNTP-Posting-Host: edmokfndckpegejpmhkjjkpbbiejaafi
X-Trace:
pdjoodfomhkjcooblbdnpiohcfhaihogmglnnkcfbfdhacphedmokfndckpegejpdfogoccdklnobnhdle
pinpciaalfgocodighkgkcbgpmehbjnjcfgglineobcdnkneoickjoboohodkb
NNTP-Posting-Date: Thu, 20 Dec 2007 07:52:30 MST
Date: Thu, 20 Dec 2007 08:05:07 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:14886
```

"Max" <Max@nospam.fr> wrote in message
news:476a1c61$0$6910$426a74cc@news.free.fr...

> Hello,
> The panel meter (plate voltage 0-3Kv) of my Linear amplifier fl-2100Z is
> broken.

We often see requests for analog meters, which are fragile and hard to come by, to say nothing of expensive. If the objective is to refurbish a vintage amplifier, then probably the best bet is to find a junk amp to cannabalize for parts.

But if the objective is to actually -use- the amp, then a micro and an LCD, along with a little design work, can lead to a meter that is more accurate, more robust, and cheaper than the original.

..

```
From -1545289059054032978
X-Google-Thread: fc2a5,dcf57ce866c0027a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
cleanfeed1-b.proxad.net!nnrp9-2.free.fr!not-for-mail
From: "Max" <Max@nospam.fr>
```

Newsgroups: rec.radio.amateur.homebrew
References: <476a1c61$0$6910$426a74cc@news.free.fr> <Okvaj.18$FU.3@newsfe02.lga>
Subject: Re: Meter FL-2100Z
Date: Thu, 20 Dec 2007 17:05:36 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Lines: 33
Message-ID: <476a8f4a$0$9212$426a74cc@news.free.fr>
Organization: Guest of ProXad - France
NNTP-Posting-Date: 20 Dec 2007 16:50:35 MET
NNTP-Posting-Host: 82.235.200.195
X-Trace: 1198165835 news-2.free.fr 9212 82.235.200.195:4596
X-Complaints-To: abuse@proxad.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:14887

"xpyttl" <xpyttl_NOSPAM@earthling.net> a �crit dans le message de news:
Okvaj.18$FU.3@newsfe02.lga...
>
> "Max" <Max@nospam.fr> wrote in message
> news:476a1c61$0$6910$426a74cc@news.free.fr...
>> Hello,
>> The panel meter (plate voltage 0-3Kv) of my Linear amplifier fl-2100Z is
>> broken.
>
> We often see requests for analog meters, which are fragile and hard to
> come by, to say nothing of expensive. If the objective is to refurbish a
> vintage amplifier, then probably the best bet is to find a junk amp to
> cannabalize for parts.
>
> But if the objective is to actually -use- the amp, then a micro and an
> LCD, along with a little design work, can lead to a meter that is more
> accurate, more robust, and cheaper than the original.
>
> ..
>
>
>
Hi,
Thank you for your answer.
The digital LCD is another solution, but I wanted to keep the spirit of the
old amplifier.
However, I don't know the value of galvanometer, it is not indicated in the
diagram of the manual, It is written only M1.
Regards
Max

```
From -4090542518419922657
X-Google-Thread: fc2a5,dcf57ce866c0027a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.acm.uiuc.edu!
news.xcski.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Meter FL-2100Z
Date: 20 Dec 2007 17:02:15 GMT
Organization: The National Capital FreeNet
Lines: 44
Message-ID: <fke76n$qbk$1@theodyn.ncf.ca>
References: <476a1c61$0$6910$426a74cc@news.free.fr> <Okvaj.18$FU.3@newsfe02.lga>
<476a8f4a$0$9212$426a74cc@news.free.fr>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1198170135 26996 134.117.136.48 (20 Dec 2007 17:02:15 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 20 Dec 2007 17:02:15 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:14888

"Max" (Max@nospam.fr) writes:
> "xpyttl" <xpyttl_NOSPAM@earthling.net> a �crit dans le message de news:
> Okvaj.18$FU.3@newsfe02.lga...
>>
>> "Max" <Max@nospam.fr> wrote in message
>> news:476a1c61$0$6910$426a74cc@news.free.fr...
>>> Hello,
>>> The panel meter (plate voltage 0-3Kv) of my Linear amplifier fl-2100Z is
>>> broken.
>>
>> We often see requests for analog meters, which are fragile and hard to
>> come by, to say nothing of expensive.  If the objective is to refurbish a
>> vintage amplifier, then probably the best bet is to find a junk amp to
>> cannabalize for parts.
>>
>> But if the objective is to actually -use- the amp, then a micro and an
>> LCD, along with a little design work, can lead to a meter that is more
>> accurate, more robust, and cheaper than the original.
>>
>> ..
>>
>>
>>
> Hi,
> Thank you for your answer.
> The digital LCD is another solution, but I wanted to keep the spirit of the
> old amplifier.
> However, I don't know the value of galvanometer, it is not indicated in the
> diagram of the manual, It is written only M1.
> Regards
> Max
```

There was a time when the value of the meter was printed on the paper that holds the scale, like down in the corner. It may nor may not be visible without front cover on.

I don't know how consistent that was, but of the good meters I have around (as opposed to really cheap ones seen as tuning meters in various bits of consumer equipment) I think they all have the value printed on the paper.

  Michael VE2BVW

```
From 6573626965932525566
X-Google-Thread: fc2a5,dcf57ce866c0027a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 20 Dec 2007 12:25:45 -0600
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
Subject: Re: Meter FL-2100Z
Newsgroups: rec.radio.amateur.homebrew
Date: Thu, 20 Dec 2007 10:25:41 -0800
References: <476a1c61$0$6910$426a74cc@news.free.fr> <Okvaj.18$FU.3@newsfe02.lga>
User-Agent: KNode/0.8.2
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <RK-dnSd6B8M0LvfanZ2dnUVZ8vGdnZ2d@pipex.net>
Lines: 48
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.106.252.165
X-Trace: sv3-JCqc5wjzjySlr39ye6FN/7o1Cw//
jPI6TTmg00MZIju9J2tcnsxiypUDIWmzOPIe8XeSwUd6846zlRr!
6Mbmo6LpDFFa5rm7mhhXysonnzWC5E06tYpze95tI4gwH8yr2ahWTf8i9YKl0aszmDKJDs7/mK/N!
7vifVYjH5xiQclEzjT68gWEbIw4=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:14889
```

xpyttl wrote:

>
> "Max" <Max@nospam.fr> wrote in message
> news:476a1c61$0$6910$426a74cc@news.free.fr...

>> Hello,
>> The panel meter (plate voltage 0-3Kv) of my Linear amplifier fl-2100Z is broken.
>
> We often see requests for analog meters, which are fragile and hard to come by, to say nothing of expensive. If the objective is to refurbish a vintage amplifier, then probably the best bet is to find a junk amp to cannabalize for parts.
>
> But if the objective is to actually -use- the amp, then a micro and an LCD, along with a little design work, can lead to a meter that is more accurate, more robust, and cheaper than the original.
>

==============================

However in the RF environment of an power amplifier it might be very difficult to suppress RF in a micro/LCD equipped device.

I would go for a replacement moving coil meter by checking the voltage metering circuit resistors and after finding a suitable low mA meter (size wise) ,determine its resistance and initially replacing the defective meter with a resistor of that value. You then can measure the mA current through that resistance . If that current is higher than the replacement meter can handle ,replace a series resistor in the voltage metering circuit by a (preferably ten-turn) trim potmeter and adjust the current through the resistor to the corresponding current through the future replacement meter.

You then either change the replacement meter's scale or accept the existing one . Then install the replacement meter ,removing its temporary replacement resistor in the circuit and finally with a suitable HV meter adjust the reading of the new meter with the trimpot .

If the above HV meter can't handle 3000 V but say only 1000 Volts ,use a variac at the AC supply   input to the amp and temporarily reduce the HV-DC voltage to the amp to 1000 V   Then adjust the meter reading (with the trimpot) to 1/3 of the meter scale.

After all ,this is a homebrew NG.

Frank   KN6WH/ GM0CSZ

From 7777720336348016872
X-Google-Thread: fc2a5,dcf57ce866c0027a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!cleanfeed1-a.proxad.net!nnrp5-1.free.fr!not-for-mail
From: "Max" <Max@nospam.fr>
Newsgroups: rec.radio.amateur.homebrew

References: <476a1c61$0$6910$426a74cc@news.free.fr>
Subject: Re: Meter FL-2100Z
Date: Thu, 20 Dec 2007 21:02:30 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Lines: 10
Message-ID: <476ac6ce$0$5457$426a34cc@news.free.fr>
Organization: Guest of ProXad - France
NNTP-Posting-Date: 20 Dec 2007 20:47:26 MET
NNTP-Posting-Host: 82.235.200.195
X-Trace: 1198180046 news-4.free.fr 5457 82.235.200.195:4918
X-Complaints-To: abuse@proxad.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:14890

Hi,
Thanks all for your help, I had several
responses to this post.
My best wishes for 2008
Cordially
Max

*Sorry for my bad English.

From -490143951543641075
X-Google-Thread: fc2a5,ddd19c6576200d82
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
news.tiscali.fr!club-internet.fr!feedme-small.clubint.net!feeder.news-service.com!
feeder1.cambrium.nl!feed.tweaknews.nl!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-
ams-08!sn-ams!sn-feed-ams-03!sn-post-ams-02!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: potting - hot melt gule and two part epoxy
Date: Thu, 20 Dec 2007 11:50:21 -0800
Organization: Home for Obscure Mythical Beings
Message-ID: <tktq35-ju4.ln1@radagast.org>
References: <bea2b617-d630-4d0b-94eb-b7b61df630f4@i12g2000prf.googlegroups.com>
<50828058-9363-43df-a50d-f379abbe48c4@a35g2000prf.googlegroups.com>
X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
X-Complaints-To: abuse@supernews.com
Lines: 32
Xref: g2news1.google.com rec.radio.amateur.homebrew:14891

>Epoxy, as described by others, tends to stress the components - one

>notable job I had was the vco in a Yaesu FT480R - took AGES to chip
>away with a fine wood chisel after using a blowtorch to open up the
>brass enclosure.....one of those "personal challenge" jobs.

Several notes re epoxy for encapsulation:

- Epoxy formulations vary a lot in their hardness and rigidity, viscosity when fluid, cure rate, and rapidity of heat release during cure. Most of the big epoxy companies seem to make at least one variety which is specifically intended for use when encapsulating electronic components. These formulas seem to be more flexible when cured, and some of them are being advertised as providing shock and thermal-stress protection.

- Other commercial electronic-gear encapsulants seem to be based on urethane, or on two-part silicone rubber formulas.

- I've had some success in doing small encapsulating projects by using a mixture of a low-viscosity slow-cure epoxy (one of the TAP Plastics formulas) and fine white sand, mixed up in a thick slurry. This mix is a good deal less expensive than using straight epoxy resin, it has much less shrinkage, and should have rather better thermal conductivity. When it's poured into a mold, the sand tends to settle to the bottom before the epoxy hardens, leaving the top layer in the mold as nearly-pure resin (a nice smooth surface).

```
--
Dave Platt <dplatt@radagast.org>                                   AE6EO
Friends of Jade Warrior home page:  http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!
```

```
From 5329148086031622269
X-Google-Thread: fc2a5,bd256adce63c92ff,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d21g2000prf.googlegroups.com!not-for-
mail
From: "isaiaholoyede@gmail.com" <isaiaholoyede@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Kenwood TH-D7A/E Radio Modification - Want The Radio To Be
     Permanently in an PWR ON State
Date: Thu, 20 Dec 2007 18:57:03 -0800 (PST)
Organization: http://groups.google.com
Lines: 7
Message-ID: <f9aeb554-2180-4834-8470-7f3af02c247a@d21g2000prf.googlegroups.com>
NNTP-Posting-Host: 128.253.136.87
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1198205823 22520 127.0.0.1 (21 Dec 2007 02:57:03 GMT)
X-Complaints-To: groups-abuse@google.com
```

```
NNTP-Posting-Date: Fri, 21 Dec 2007 02:57:03 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d21g2000prf.googlegroups.com; posting-host=128.253.136.87;
     posting-account=7z8U0goAAACEYpewQAmGqp_lV4hbTzcf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; Intel Mac OS X; en-US;
     rv:1.8.1.11) Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14892
```

I am trying to modify and adapt a Kenwood TH-D7A/E HAM Radio for a project. I have looked at the schematics, but I could not figure out how to set the radio to be permanently in an ON state, or how to reset the radio from an OFF state to an ON state.

Any idea on how this can be done will be appreciated.

```
From -2213597736616282381
X-Google-Thread: fc2a5,63191d691704b7d3,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.mho.net!news.mho.net.POSTED!
not-for-mail
NNTP-Posting-Date: Fri, 21 Dec 2007 02:04:54 -0600
From: "Eric Gordon" <egordon@mho.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: KENWOOD TS-680-S
Date: Fri, 21 Dec 2007 01:04:30 -0700
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <xIednXFe87Q67vbanZ2dnUVZ_sCtnZ2d@mho.net>
Lines: 7
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.58.10.156
X-Trace: sv3-pQnpfqgzvo4/
CmTcQPiMx5+idEKlPleX05jiWKK8BZpXFxgXcakMOjOXogzDivrcXSCODYf0U3+fJqj!
KISKSPFss51i6TsBxJn8JYElpohHvEsd4kTAboqgQuh5EOGs0GZd9GCwEb+4arHrxEJ89xxaOMy9!
2gOovHIH
X-Complaints-To: abuse@mho.net
X-DMCA-Complaints-To: abuse@mho.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:14893
```

I WOULD LIKE TO KNOW THE PINOUTS FOR THE ACC SOCKETS ON THE BACK OF THE TS-680. I AM TRYING TO CONNECT AN AUTOMATIC ANT. TUNER (KENWOOD AT-50) BUT

THE MANUAL DOESN'T GIVE THE PINOUTS FOR THE ACC. 2 OR 3(?) SOCKET

THANKS   ERIC   K0OHU

```
From 5237582693460969952
X-Google-Thread: fc2a5,5d277ed169b923b2
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e25g2000prg.googlegroups.com!not-for-
mail
From: "whitleyy@gmail.com" <whitleyy@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Hi to all
Date: Fri, 21 Dec 2007 00:18:38 -0800 (PST)
Organization: http://groups.google.com
Lines: 9
Message-ID: <a6e03a74-40f2-4878-96b6-975d8d6c3db5@e25g2000prg.googlegroups.com>
NNTP-Posting-Host: 72.161.173.34
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1198225119 21389 127.0.0.1 (21 Dec 2007 08:18:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 21 Dec 2007 08:18:39 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e25g2000prg.googlegroups.com; posting-host=72.161.173.34;
     posting-account=905o-QoAAADJsXjz6zufKrcoWE9INC_p
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.23 (Windows NT 5.1; U; ru)),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14894
```

Take a look at this sites
 http://anime-ass.hentai4you.info/anime-ass-porn.html anime ass porn
 http://anime-ass.hentai4you.info/anime-ass.html anime ass
 http://anime-ass.hentai4you.info/anime-cum-in-ass.html anime cum in ass
 http://anime-ass.hentai4you.info/anime-lesbians-ass.html anime lesbians ass
 http://anime-ass.hentai4you.info/anime-gay-ass-fuck.html anime gay ass fuck

```
From 5917026725044737876
X-Google-Thread: fc2a5,4e922ff3e5440d59,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
news.litech.org!not-for-mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
```

Subject: VHF/UHF (and above) to HF Downconverter pointers/ideas?
Date: Fri, 21 Dec 2007 19:22:52 +0000 (UTC)
Organization: Me?
Lines: 26
Sender: mikea@mikea.ath.cx
Message-ID: <fkh3qc$otd$1@puck.litech.org>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1198264972 25517 70.164.65.62 (21 Dec 2007 19:22:52 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Fri, 21 Dec 2007 19:22:52 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news1.google.com rec.radio.amateur.homebrew:14895

I've got an RFSpace, Inc. SDR-IQ Software Defined Radio, which is a truly nifty gadget, but it stops at 30 MHz. I'd like to put together a downconverter that I can drive with a DDS LO or my HP 8640B, to pull the stuff above 30 MHz down into some part of the HF (or lower) spectrum. It would be nice to be able to see a 190 KHz chunk of 6m or 2m or 70 cm., as I can with the spectrum below 30 MHz.

At the moment, I'm looking at just plumbing together a MiniCircuits mixer (probably +3dBm or so), some low-pass filtering, and maybe some front-end gain so that I can be sure there's enough RF to drive the mixer.

Does anyone know of
COTS boxes to do this, or
designs in QEX or some other ham publication to do this, or
another ham who has done this or is working on it?

If someone here is doing or has done this, I'd love to know if I need a gain block before the mixer. Other constructive comments will be welcome, too.

73, de

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From 4435965088282194333
X-Google-Thread: fc2a5,4e922ff3e5440d59
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!tudelft.nl!txtfeed1.tudelft.nl!feeder.news-service.com!feeder1.cambrium.nl!feed.tweaknews.nl!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-08!sn-ams!sn-feed-ams-02!sn-post-ams-02!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VHF/UHF (and above) to HF Downconverter pointers/ideas?
Date: Fri, 21 Dec 2007 13:47:03 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13mo5nvt2eul0f7@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <fkh3qc$otd$1@puck.litech.org>
In-Reply-To: <fkh3qc$otd$1@puck.litech.org>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 18
Xref: g2news1.google.com rec.radio.amateur.homebrew:14896

Mike Andrews wrote:

> I've got an RFSpace, Inc. SDR-IQ Software Defined Radio, which is a
> truly nifty gadget, but it stops at 30 MHz. I'd like to put together a
> downconverter that I can drive with a DDS LO or my HP 8640B, to pull the
> stuff above 30 MHz down into some part of the HF (or lower) spectrum. It
> would be nice to be able to see a 190 KHz chunk of 6m or 2m or 70 cm., as
> I can with the spectrum below 30 MHz.
>

I have considered using subassemblies from C-band satellite receivers for
a similar task; the bandwidth may not be as great but certainly useful
for some tasks, and the tuning range is substantial (sorry I don't have
useful numbers while I am posting this).

Regards,

Michael

From -2207904807340062938
X-Google-Thread: fc2a5,dcf57ce866c0027a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!t1g2000pra.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Meter FL-2100Z
Date: Fri, 21 Dec 2007 12:15:34 -0800 (PST)
Organization: http://groups.google.com
Lines: 23
Message-ID: <d1e8a08a-5642-4a32-955a-aa5b453f4d07@t1g2000pra.googlegroups.com>
References: <476a1c61$0$6910$426a74cc@news.free.fr> <Okvaj.18$FU.3@newsfe02.lga>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0

```
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1198268135 2308 127.0.0.1 (21 Dec 2007 20:15:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 21 Dec 2007 20:15:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: t1g2000pra.googlegroups.com; posting-host=170.121.15.35;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14897

On Dec 20, 8:05=A0am, "xpyttl" <xpyttl_NOS...@earthling.net> wrote:
> But if the objective is to actually -use- the amp, then a micro and an LCD=
,
> along with a little design work, can lead to a meter that is more accurate=
,
> more robust, and cheaper than the original.

I have to disagree here. For time-varying parameters of great interest
- certainly plate current is the most interesting, but only a little
behind is plate voltage - analog meters, and them bouncing up and down
in response to modulation, are essential to correct operation and
maintenance.

Bargraph-type LED or LCD meters are popular on recent equipment, and
while they have the visual trend to the eye and also lack moving
parts, they still aren't up to the same snuff that good old fashioned
analog meters have.

The thought of watching modulation peaks using a digital panel meter
is laughable. Maybe if you're sending an unmodulated carrier it would
be of value!

Tim.


From -5414664658612053492
X-Google-Thread: fc2a5,57a60737878ed0fc,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx01.iad01.newshosting.com!newshosting.com!post01.iad01!news.newsgroup-
binaries.com!not-for-mail
From: "Ron H" <rnharsh@nospam.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FYI -  MI5Victim@mi5.gov.uk
Date: Fri, 21 Dec 2007 14:49:17 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
```

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 33
Message-ID: <476c2652$0$26622$8d2e0cab@news.newsgroup-binaries.com>
Organization: newsgroup-binaries.com
X-Complaints-To: abuse@newsgroup-binaries.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:14898

I sent off a note to the mail server that he jerk calling himself
MI5Victim@mi5.gov.uk used for numerous postings. Here is the reply:

----- Original Message -----
From: Newsdemon Abuse
To: removed
Sent: Friday, December 21, 2007 1:14 PM
Subject: Newsdemon Abuse Department Response Re: Fw: MI5-Persecution: MI5
Have Systematically Destroyed My Life (31033)

We have received a large number of complaints regarding one of our
former customers flooding various newsgroups with "MI5 Persecution"
posts. We have removed this customer from our active database and he
will no longer be allowed to use our servers.

We appreciate your role in helping us to locate this user.

--
Newsdemon.com Support Team
http://www.newsdemon.com

--

Ron H
--
This outgoing email was scanned by
Norton Antivirus Corp. Edition
and found to be virus free!

----
www.Newsgroup-Binaries.com - *Completion*Retention*Speed*
Access your favorite newsgroups from home or on the road

From -7717914417972871199
X-Google-Thread: fc2a5,63191d691704b7d3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-

```
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news01.roc.ny.POSTED!53ab2750!
not-for-mail
Message-ID: <476C3928.7060300@frontiernet.net>
From: gwatts <gwatts@frontiernet.net>
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: KENWOOD TS-680-S
References: <xIednXFe87Q67vbanZ2dnUVZ_sCtnZ2d@mho.net>
In-Reply-To: <xIednXFe87Q67vbanZ2dnUVZ_sCtnZ2d@mho.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 19
X-Complaints-To: abuse-news@frontiernet.net
X-Trace:
52616e646f6d4956f9d2364c65fcb53488b86c88493bed719aa3ababc62e432e82ab917937e6bab9f0
dfccdd4b48f8fc2258bc2a0988a1ce0f6dd48034deb1d061d633fcab9348e04bdc1cf3f6c6bb7391f6
c7eceb7cca19f345d813d10ab4aa75aee0d638062b5c6c50333dd249a77d
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Fri, 21 Dec 2007 22:07:35 UTC
Date: Fri, 21 Dec 2007 22:07:35 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:14899

Eric Gordon wrote:
> I WOULD LIKE TO KNOW THE PINOUTS FOR THE ACC SOCKETS ON THE BACK OF THE
> TS-680.  I AM TRYING TO CONNECT AN AUTOMATIC ANT. TUNER (KENWOOD AT-50) BUT
> THE MANUAL DOESN'T GIVE THE PINOUTS FOR THE ACC. 2 OR 3(?) SOCKET
>
> THANKS    ERIC   K0OHU

Hi Eric,
I downloaded a copy of the manual from http://www.mods.dk and it shows
pin outs of ACC-2 on page 14 below the drawing of the back panel.
ACC-2, a 13 pin DIN, has stuff like PTT, data output for TNC's, data
input from TNC's, etc.  ACC-3 is listed for the AT-250, and I'd download
that manual but mods.dk only lets you download one free manual every
four days.  They're a great resource for manuals and mods by the way, I
should really cough up the few dollars they want for unlimited downloads
but I'm not really doing much that needs manuals right now.

Good luck!
- Galen, W8LNA


From 5652410408232546102
X-Google-Thread: fc2a5,63191d691704b7d3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!e6g2000prf.googlegroups.com!not-for-
mail
From: mrhaney <w4pqw@cox.net>
Newsgroups: rec.radio.amateur.homebrew
```

```
Subject: Re: KENWOOD TS-680-S
Date: Fri, 21 Dec 2007 16:47:58 -0800 (PST)
Organization: http://groups.google.com
Lines: 11
Message-ID: <d8be2515-0ad1-4fde-9235-df492cfe43f9@e6g2000prf.googlegroups.com>
References: <xIednXFe87Q67vbanZ2dnUVZ_sCtnZ2d@mho.net>
NNTP-Posting-Host: 72.216.40.68
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1198284478 19967 127.0.0.1 (22 Dec 2007 00:47:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 22 Dec 2007 00:47:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e6g2000prf.googlegroups.com; posting-host=72.216.40.68;
     posting-account=iDa5ggkAAADrhtwpj3fwoB8ZHtIo_pzj
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
     FunWebProducts),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14900

On Dec 21, 2:04=A0am, "Eric Gordon" <egor...@mho.net> wrote:
> I WOULD LIKE TO KNOW THE PINOUTS FOR THE ACC SOCKETS ON THE BACK OF THE
> TS-680. =A0I AM TRYING TO CONNECT AN AUTOMATIC ANT. TUNER (KENWOOD AT-50) =
BUT
> THE MANUAL DOESN'T GIVE THE PINOUTS FOR THE ACC. 2 OR 3(?) SOCKET
>
> THANKS =A0 =A0ERIC =A0 K0OHU

Do you know for sure that the AT-50 tuner can be used with the
TS-680 ? I believe The AT-50 has a completely different hookup >> I
will do a little research on this and try to get back.. 73   W4PQW


From -6670373919205750077
X-Google-Thread: fc2a5,715472d2803a28a6,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i72g2000hsd.googlegroups.com!not-for-
mail
From: "lw3eov@googlemail.com" <lw3eov@googlemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Homemade QRP Transmitter 40-20-15-10 meters SSB for Digital Modes, is
     it possible?
Date: Fri, 21 Dec 2007 18:16:06 -0800 (PST)
Organization: http://groups.google.com
Lines: 9
Message-ID: <96b9bc32-d1da-4b33-afa1-5b34dd710ab9@i72g2000hsd.googlegroups.com>
NNTP-Posting-Host: 80.6.174.52
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1198289766 4530 127.0.0.1 (22 Dec 2007 02:16:06 GMT)
```

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 22 Dec 2007 02:16:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i72g2000hsd.googlegroups.com; posting-host=80.6.174.52;
     posting-account=SlX4XwoAAADHdeIgeHRRHKQoVBk4QGg1
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14901

I'm just wondering if I can build a QRP transmitter for 40-20-15 and
10 meters in SSB to use it for PSK, RTTY, and other digital modes.

Many thanks

73's DX

Marcelo
M / LW3EOV



From 9205960544808526360
X-Google-Thread: fc2a5,715472d2803a28a6
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-
mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <96b9bc32-d1da-4b33-afa1-5b34dd710ab9@i72g2000hsd.googlegroups.com>
Subject: Re: Homemade QRP Transmitter 40-20-15-10 meters SSB for Digital Modes, is
it possible?
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <yN_aj.262896$Fc.103153@attbi_s21>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1198291166 12.219.135.201 (Sat, 22 Dec 2007 02:39:26 GMT)
NNTP-Posting-Date: Sat, 22 Dec 2007 02:39:26 GMT
Organization: AT&T ASP.att.net
Date: Sat, 22 Dec 2007 02:39:26 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:14902


> I'm just wondering if I can build a QRP transmitter for 40-20-15 and
> 10 meters in SSB to use it for PSK, RTTY, and other digital modes.
>
> Many thanks
```

>
> 73's DX
>
> Marcelo
> M / LW3EOV

Absolutely! Google "Picastar". As you request above plus 80 and 160 as well.

W4ZCB

From 1610542988811362252
X-Google-Thread: fc2a5,4e922ff3e5440d59
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-mail
From: Erich <n6fd@mchsi.com>
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VHF/UHF (and above) to HF Downconverter pointers/ideas?
References: <fkh3qc$otd$1@puck.litech.org>
In-Reply-To: <fkh3qc$otd$1@puck.litech.org>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 35
Message-ID: <7D0bj.263150$Fc.34438@attbi_s21>
NNTP-Posting-Host: 12.219.245.122
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1198298691 12.219.245.122 (Sat, 22 Dec 2007 04:44:51 GMT)
NNTP-Posting-Date: Sat, 22 Dec 2007 04:44:51 GMT
Organization: AT&T ASP.att.net
Date: Sat, 22 Dec 2007 04:44:51 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:14903

Mike Andrews wrote:
> I've got an RFSpace, Inc. SDR-IQ Software Defined Radio, which is a
> truly nifty gadget, but it stops at 30 MHz. I'd like to put together a
> downconverter that I can drive with a DDS LO or my HP 8640B, to pull the
> stuff above 30 MHz down into some part of the HF (or lower) spectrum. It
> would be nice to be able to see a 190 KHz chunk of 6m or 2m or 70 cm., as
> I can with the spectrum below 30 MHz.
>
> At the moment, I'm looking at just plumbing together a MiniCircuits mixer
> (probably +3dBm or so), some low-pass filtering, and maybe some front-end
> gain so that I can be sure there's enough RF to drive the mixer.
>
> Does anyone know of
>   COTS boxes to do this, or

>   designs in QEX or some other ham publication to do this, or
>   another ham who has done this or is working on it?
>
> If someone here is doing or has done this, I'd love to know if I need a
> gain block before the mixer. Other constructive comments will be welcome,
> too.
>
> 73, de
>

Mike,

With what you describe, the COTS box would be a connectorized
MiniCircuits mixer. Just attach the antenna to the RF port, the signal
Generator to the LO, and the receiver to the IF ports. The noise figure
will be kind of high, but you should be able to see moderately strong
signals. A MiniCiruits amp in front would help sensitivity a bit, but
at the price of possible intermodulation from strong signals. Adding
additional RF and IF filtering would help as well.

Good luck and 73,
Erich N6FD

```
From -2413935304072192227
X-Google-Thread: fc2a5,715472d2803a28a6
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!sn-xt-sjc-05!sn-xt-sjc-11!sn-xt-
sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: John Ferrell <johnferrell@sprintmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homemade QRP Transmitter 40-20-15-10 meters SSB for Digital Modes, is
it possible?
Date: Sat, 22 Dec 2007 07:59:42 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1c2qm3prm63hnc4g1apbn16f6r9v6eivkd@4ax.com>
References: <96b9bc32-d1da-4b33-afa1-5b34dd710ab9@i72g2000hsd.googlegroups.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 18
X-Original-Bytes: 1235
Xref: g2news1.google.com rec.radio.amateur.homebrew:14904
```

On Fri, 21 Dec 2007 18:16:06 -0800 (PST), "lw3eov@googlemail.com"
<lw3eov@googlemail.com> wrote:

>I'm just wondering if I can build a QRP transmitter for 40-20-15 and
>10 meters in SSB to use it for PSK, RTTY, and other digital modes.
>

>Many thanks
>
>73's DX
>
>Marcelo
>M / LW3EOV
Check out http://groups.yahoo.com/group/softrock40/
Inexpensive and they work very well!

John Ferrell W8CCW
"Life is easier if you learn to
plow around the stumps"

From -6661545736125658105
X-Google-Thread: fc2a5,715472d2803a28a6
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!sn-xt-sjc-03!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: John Tartar <john_tartar@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homemade QRP Transmitter 40-20-15-10 meters SSB for Digital Modes, is it possible?
Date: Sat, 22 Dec 2007 17:26:16 -0000
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <Xns9A0E6045BC1Djohntartaryahoocom@216.168.3.70>
References: <96b9bc32-d1da-4b33-afa1-5b34dd710ab9@i72g2000hsd.googlegroups.com>
User-Agent: Xnews/5.04.25
X-Complaints-To: abuse@supernews.com
Lines: 9
Xref: g2news1.google.com rec.radio.amateur.homebrew:14905

"lw3eov@googlemail.com" <lw3eov@googlemail.com> wrote in news:96b9bc32-d1da-4b33-afa1-5b34dd710ab9@i72g2000hsd.googlegroups.com:

> I'm just wondering if I can build a QRP transmitter for 40-20-15 and
> 10 meters in SSB to use it for PSK, RTTY, and other digital modes.

Also take a look at
http://groups.yahoo.com/group/ARRLHBC/

From 6996329401877463940
X-Google-Thread: fc2a5,320b6ece8417e30c,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!newsfeed01.sul.t-online.de!newsfeed00.sul.t-online.de!t-online.de!grolier!sn-xt-sjc-02!sn-xt-sjc-11!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew

Subject: Paging: Dave Platt
Date: Sun, 23 Dec 2007 11:51:16 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13mt7n3fu0ui1e9@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 13
Xref: g2news1.google.com rec.radio.amateur.homebrew:14906

Dave,

Thanks for your email regarding CE EMC, etc.; your SMTP server
is rejecting my reply to you:

smtp;417 SPF error ipx1.cybertheque.net: Address does not pass the Sender Policy
Framework

This is most likely due to your IMTA rejecting messages originating from our
private network which isn't publicly visible through DNS. Can you fix?

Regards,

Michael

From -5025890178907545549
X-Google-Thread: fc2a5,119d7a3e244fc5ba,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 23 Dec 2007 16:20:15 -0600
From: "Virgil Smith" <vsmith26@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Receiver design book - suggestions?
Date: Sun, 23 Dec 2007 17:20:16 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <9_2dnfD7FfCCQvPanZ2dnUVZ_gGdnZ2d@comcast.com>
Lines: 13
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.60.172.230
X-Trace: sv3-
hBARvh0izmhJB6+gH8gnkhP+ZenOoZgKUsd3j+XUMk+5ZSXbdbDKL1hhZG81HcQL4ljzopSPhP0HLmb!

Uq87lH8TlyXEUCZup/gvRCj3q3E7u3hl8I2tzppRZTA64/ySbcS2ixxQUctoOsMqyyCbI3DDvRRI!
JGgWH3h5V5qigsdeFmvdN/DkcM74bw==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:14907

What suggestions would you have for a good book on the design of
communications receivers? I have a copy of Rohde and Whittaker,
"Communications Receivers" and am working my way through it. It seems very
comprehensive and this level of detail is what I'm looking for, but some of
their explanations are a little hard to follow.

I would appreciate knowing what, if any, books others have found useful.

Thanks,

-vs-

From -5795471814049177597
X-Google-Thread: fc2a5,119d7a3e244fc5ba
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "john jardine" <john.jardine@idnet.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Receiver design book - suggestions?
Date: Sun, 23 Dec 2007 23:58:45 -0000
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13mthjq0r53m14@corp.supernews.com>
References: <9_2dnfD7FfCCQvPanZ2dnUVZ_gGdnZ2d@comcast.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
X-Complaints-To: abuse@supernews.com
Lines: 17
Xref: g2news1.google.com rec.radio.amateur.homebrew:14908

"Virgil Smith" <vsmith26@comcast.net> wrote in message
news:9_2dnfD7FfCCQvPanZ2dnUVZ_gGdnZ2d@comcast.com...
> What suggestions would you have for a good book on the design of
> communications receivers? I have a copy of Rohde and Whittaker,
> "Communications Receivers" and am working my way through it. It seems very
> comprehensive and this level of detail is what I'm looking for, but some

of
> their explanations are a little hard to follow.
>
> I would appreciate knowing what, if any, books others have found useful.

Rohde and Bucher "Comms receiver principles and design".
Rohde "RF/Microwave design for wireless apps'"
You can't escape the man!.

From -4702649040052148547
X-Google-Thread: fc2a5,ddd19c6576200d82
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d21g2000prf.googlegroups.com!not-for-mail
From: "dougfgd@gmail.com" <dougfgd@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: potting - hot melt gule and two part epoxy
Date: Sun, 23 Dec 2007 18:34:55 -0800 (PST)
Organization: http://groups.google.com
Lines: 40
Message-ID: <8e801803-8b99-42c9-b2f1-de8b3647ba2f@d21g2000prf.googlegroups.com>
References: <bea2b617-d630-4d0b-94eb-b7b61df630f4@i12g2000prf.googlegroups.com>
<50828058-9363-43df-a50d-f379abbe48c4@a35g2000prf.googlegroups.com>
<tktq35-ju4.ln1@radagast.org>
NNTP-Posting-Host: 80.2.223.130
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1198463695 4393 127.0.0.1 (24 Dec 2007 02:34:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 24 Dec 2007 02:34:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d21g2000prf.googlegroups.com; posting-host=80.2.223.130;
posting-account=T_uEwgoAAAANiyAayn2jEmbtx6VbIi0q
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.8.1.11)
Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14909

I had occasion to pot very high impedance circuit in 2 part black
potting compound, when apparently set it failed to function correctly,
after 2 days all was ok.
my conclusion was that the chemical reaction was generating conducting
ions and conduction ceased when the reaction finished.

Dave Platt wrote:

> >Epoxy, as described by others, tends to stress the components - one
> >notable job I had was the vco in a Yaesu FT480R - took AGES to chip

```
> >away with a fine wood chisel after using a blowtorch to open up the
> >brass enclosure.....one of those "personal challenge" jobs.
>
> Several notes re epoxy for encapsulation:
>
> -  Epoxy formulations vary a lot in their hardness and rigidity,
>    viscosity when fluid, cure rate, and rapidity of heat release
>    during cure.  Most of the big epoxy companies seem to make at least
>    one variety which is specifically intended for use when
>    encapsulating electronic components.  These formulas seem to be
>    more flexible when cured, and some of them are being advertised as
>    providing shock and thermal-stress protection.
>
> -  Other commercial electronic-gear encapsulants seem to be based on
>    urethane, or on two-part silicone rubber formulas.
>
> -  I've had some success in doing small encapsulating projects by using
>    a mixture of a low-viscosity slow-cure epoxy (one of the TAP
>    Plastics formulas) and fine white sand, mixed up in a thick slurry.
>    This mix is a good deal less expensive than using straight epoxy
>    resin, it has much less shrinkage, and should have rather better
>    thermal conductivity.  When it's poured into a mold, the sand tends
>    to settle to the bottom before the epoxy hardens, leaving the top
>    layer in the mold as nearly-pure resin (a nice smooth surface).
>
> --
> Dave Platt <dplatt@radagast.org>                                  AE6EO
> Friends of Jade Warrior home page:  http://www.radagast.org/jade-warrior
>   I do _not_ wish to receive unsolicited commercial email, and I will
>      boycott any company which has the gall to send me such ads!


From -3698513146734250561
X-Google-Thread: fc2a5,119d7a3e244fc5ba
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e10g2000prf.googlegroups.com!not-for-
mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Receiver design book - suggestions?
Date: Mon, 24 Dec 2007 07:53:11 -0800 (PST)
Organization: http://groups.google.com
Lines: 11
Message-ID: <7c5ca6d5-7fe0-4559-8e49-b39094da0c12@e10g2000prf.googlegroups.com>
References: <9_2dnfD7FfCCQvPanZ2dnUVZ_gGdnZ2d@comcast.com>
NNTP-Posting-Host: 97.84.159.244
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1198511591 28567 127.0.0.1 (24 Dec 2007 15:53:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 24 Dec 2007 15:53:11 +0000 (UTC)
```

Complaints-To: groups-abuse@google.com
Injection-Info: e10g2000prf.googlegroups.com; posting-host=97.84.159.244;
     posting-account=K8YolwoAAADy0A2iW37gF9k2mykeXqaI
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; (R1 1.5);
     .NET CLR 1.0.3705; .NET CLR 1.1.4322; Tablet PC 1.7),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14910

The books by Wes Hayward and his buddys, will give you stuff that
actually works..
Try:

 Experimental Methods in RF Design
-- by Wes Hayward, W7ZOI, Rick Campbell, KK7B, and Bob Larkin, W7PUA

And several others in the ARRL catalog...

denny / k8do

From -4989044322672343333
X-Google-Thread: fc2a5,251cf923a9c71eae,start
X-Google-Thread: fc8b1,251cf923a9c71eae,start
X-Google-Attributes: gidfc2a5,gidfc8b1,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!bloom-beacon.mit.edu!panix!panix2.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Peter Dahl going out of business...
Date: Mon, 24 Dec 2007 21:28:23 -0500
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 9
Message-ID: <Pine.NEB.4.64.0712242126180.10840@panix2.panix.com>
NNTP-Posting-Host: panix2.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1198549705 15591 166.84.1.2 (25 Dec 2007 02:28:25 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 25 Dec 2007 02:28:25 +0000 (UTC)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14911
rec.radio.amateur.boatanchors:13513

I was going to look up modulation transformers and googled on Peter Dahl,
and there was a link to a ARRL URL where they said he's got Parkinsons and
the company is going to close doors Dec 31, 2007.

So, now what are we going to do for weirdo stuff like plate modulation
transformers?

From 3646151230698944789
X-Google-Thread: fc2a5,119d7a3e244fc5ba
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 25 Dec 2007 10:05:39 -0600
From: "Larry Coyle" <lmcoyle@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <9_2dnfD7FfCCQvPanZ2dnUVZ_gGdnZ2d@comcast.com>
<7c5ca6d5-7fe0-4559-8e49-b39094da0c12@e10g2000prf.googlegroups.com>
Subject: Re: Receiver design book - suggestions?
Date: Tue, 25 Dec 2007 11:05:36 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <T5WdndqMXODOt-zanZ2dnUVZ_hOdnZ2d@comcast.com>
Lines: 31
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.60.172.230
X-Trace: sv3-Tn1ilp/4mTWNpM2n+zyhHHz+6K+SmO/
5QQyu3vnPr4jS2RSyVsEPO0jYVFPfwPghYSnMA0xjFFjTD5J!
EnJCYWz3IiO9YlBvg26acFdwOv4ZgNSHjqc1FE4PqPBB4pw76U59tQcFQdONJpppZMQ8inbhzPd5!
LfAvhZOhESC0Wmyom92uEm0gMBcfDw==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.37
Xref: g2news1.google.com rec.radio.amateur.homebrew:14912

"Denny" <k8do@mailblocks.com> wrote in message
news:7c5ca6d5-7fe0-4559-8e49-b39094da0c12@e10g2000prf.googlegroups.com...
> The books by Wes Hayward and his buddys, will give you stuff that
> actually works..
> Try:
> ---
> Experimental Methods in RF Design
> -- by Wes Hayward, W7ZOI, Rick Campbell, KK7B, and Bob Larkin, W7PUA
>
> And several others in the ARRL catalog...
>
>
> denny / k8do

I have "Experimental Methods ..." and I agree it's an excellent one. If you have the book you might want to check out Wes Hayward's web site

http://w7zoi.net/em0.html

for a list of errata (it's a long one) for the book. I guess that the proof
reading was a little skimpy!
An updated new edition seems to be called for.

This is not to take away anything from Hayward and the other authors. My hat
is off to them and
people like them who have contributed so much to ham radio over the years.

-vs-

From 4699150027191385630
X-Google-Thread: fc2a5,251cf923a9c71eae
X-Google-Thread: fc8b1,251cf923a9c71eae
X-Google-Attributes: gidfc2a5,gidfc8b1,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Peter Dahl going out of business...
Date: 25 Dec 2007 13:38:41 -0500
Organization: Former users of Netcom shell (1989-2000)
Lines: 21
Message-ID: <fkrinh$g7d$1@panix2.panix.com>
References: <Pine.NEB.4.64.0712242126180.10840@panix2.panix.com>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1198607921 5911 166.84.1.2 (25 Dec 2007 18:38:41 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 25 Dec 2007 18:38:41 +0000 (UTC)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14913
rec.radio.amateur.boatanchors:13519

Straydog <asd@panix.com> wrote:
>I was going to look up modulation transformers and googled on Peter Dahl,
>and there was a link to a ARRL URL where they said he's got Parkinsons and
>the company is going to close doors Dec 31, 2007.

Jesus! The whole broadcast industry relies on him, not just the amateur
community.

>So, now what are we going to do for weirdo stuff like plate modulation
>transformers?

Getting weirdo stuff rebuilt isn't all that difficult, if it's large
enough. There are a couple good transformer rebuild shops in my state
which mostly do pole pigs but can be encouraged to work on big chokes,

power and modulation transformers if the money is right.

But getting brand new stuff.... there's nobody like Dahl. And getting
rebuilds for small transformers.... again, the guys are unique.
--scott
--
"C'est un Nagra. C'est suisse, et tres, tres precis."

```
From 2121937238488624695
X-Google-Thread: fc2a5,251cf923a9c71eae
X-Google-Thread: fc8b1,251cf923a9c71eae
X-Google-Attributes: gidfc2a5,gidfc8b1,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews5.bellsouth.net.POSTED!29d2867e!
not-for-mail
From: Bill <n4wc@arrl.net>
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Peter Dahl going out of business...
References: <Pine.NEB.4.64.0712242126180.10840@panix2.panix.com>
<fkrinh$g7d$1@panix2.panix.com>
In-Reply-To: <fkrinh$g7d$1@panix2.panix.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 25
Message-ID: <dRdcj.32632$N67.14399@bignews5.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcbonlpblobjbmncljkadlmoanlhiacohffleh
omgfmalljcppnnhbfhlbcndpekaiejknacomfhmniaoecgilchdjfpiffgmjbofjebpcldjjpilnie
NNTP-Posting-Date: Tue, 25 Dec 2007 15:36:25 EST
Organization: BellSouth Internet Group
Date: Tue, 25 Dec 2007 15:36:26 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:14914
rec.radio.amateur.boatanchors:13520
```

Maybe Martin (MFJ) will buy the "Ham" side of the company, if there is one.

TenTec has wound some of their own xfmrs and also bought from a company
in Canada.

Scott Dorsey wrote:
> Straydog <asd@panix.com> wrote:
>> I was going to look up modulation transformers and googled on Peter Dahl,
>> and there was a link to a ARRL URL where they said he's got Parkinsons and
>> the company is going to close doors Dec 31, 2007.
>
> Jesus! The whole broadcast industry relies on him, not just the amateur
> community.

>
>> So, now what are we going to do for weirdo stuff like plate modulation
>> transformers?
>
> Getting weirdo stuff rebuilt isn't all that difficult, if it's large
> enough. There are a couple good transformer rebuild shops in my state
> which mostly do pole pigs but can be encouraged to work on big chokes,
> power and modulation transformers if the money is right.
>
> But getting brand new stuff.... there's nobody like Dahl. And getting
> rebuilds for small transformers.... again, the guys are unique.
> --scott

From 5997162228146708248
X-Google-Thread: fc2a5,251cf923a9c71eae
X-Google-Thread: fc8b1,251cf923a9c71eae
X-Google-Attributes: gidfc2a5,gidfc8b1,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!panix!
panix2.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Peter Dahl going out of business...
Date: Tue, 25 Dec 2007 15:59:42 -0500
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 60
Message-ID: <Pine.NEB.4.64.0712251550090.954@panix2.panix.com>
References: <Pine.NEB.4.64.0712242126180.10840@panix2.panix.com>
 <fkrinh$g7d$1@panix2.panix.com> <dRdcj.32632$N67.14399@bignews5.bellsouth.net>
NNTP-Posting-Host: panix2.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1198616383 7893 166.84.1.2 (25 Dec 2007 20:59:43 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 25 Dec 2007 20:59:43 +0000 (UTC)
In-Reply-To: <dRdcj.32632$N67.14399@bignews5.bellsouth.net>
Xref: g2news1.google.com rec.radio.amateur.homebrew:14915
rec.radio.amateur.boatanchors:13521

Just a bit more: if anyone wants to check it out, the story is here:

www.arrl.org/?artid=7889

Or, if you put "peter dahl" into the google search box, the link comes up
pretty high on the first page of search results.

I've sent an email to Hammond (they make a lot of transformers of the old
style [eg for tube radio projects, including pretty hefty plate
transformers eg. 500 watts plus, and sold through Radio-Daze, and some at
Fair Radio Sales]) about whether they might do "one-of" orders but I'm
sure they won't want to do lots of one without big buck costs and I'm not

the DOD, DOE.

I'm probably going to make a telephone call to Dahl tommorrow and see if they answer the phone and what they say. No news on their websites, so someone is asleep at the switch.

I did a google on "electric transformers" and got a lot of hits and its going to take a while to search them. The vast majority of todays transformer markets are all solid state low voltage stuff. tsk, tsk. Even Newark and Mouser (for two [who else out there? Allied? Pioneer? couple others? DigiKey?]) don't carry any transformers, much, for tube gear voltages, let alone modulation transformers. And, here I was, thinking about a homebrew pair of 811-As in parallel, class-C, modulated by a pair of 811-As in push pull class B. Well...that idea just went poof.

So, somebody moved my cheese.

===== no change to below, included for reference and context =====

On Tue, 25 Dec 2007, Bill wrote:

```
> Maybe  Martin (MFJ) will buy the "Ham" side of the company, if there is one.
>
> TenTec has wound some of their own xfmrs and also bought from a company in
> Canada.
>
> Scott Dorsey wrote:
>> Straydog  <asd@panix.com> wrote:
>>> I was going to look up modulation transformers and googled on Peter Dahl,
>>> and there was a link to a ARRL URL where they said he's got Parkinsons and
>>> the company is going to close doors Dec 31, 2007.
>>
>> Jesus!  The whole broadcast industry relies on him, not just the amateur
>> community.
>>
>>> So, now what are we going to do for weirdo stuff like plate modulation
>>> transformers?
>>
>> Getting weirdo stuff rebuilt isn't all that difficult, if it's large
>> enough.  There are a couple good transformer rebuild shops in my state
>> which mostly do pole pigs but can be encouraged to work on big chokes,
>> power and modulation transformers if the money is right.
>> But getting brand new stuff.... there's nobody like Dahl.  And getting
>> rebuilds for small transformers.... again, the guys are unique.
>> --scott
>
```

```
From -1876780529527936621
X-Google-Thread: fc2a5,779ea76c59b08b53
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news1.google.com!postnews.google.com!b1g2000pra.googlegroups.com!not-for-mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where can I get aluminium foil (0.5 cm thickness) for Homebrew
     Butterfly Capacitor
Date: Tue, 11 Dec 2007 04:47:41 -0800 (PST)
Organization: http://groups.google.com
Lines: 47
Message-ID: <64faa8fc-9f4c-4a85-adac-fd0ee93e152e@b1g2000pra.googlegroups.com>
References: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>
     <gMWdnbZF1ZceW8jaRVnyvQA@pipex.net> <c7ace112-c2cc-48e9-9f15-f0cc0f87dc50@y43g2000hsy.googlegroups.com>
     <nYKdnUOvXv6et8DanZ2dnUVZ_ournZ2d@bright.net> <b54b6a9f-ddfa-4bac-9a74-4378df1d22b3@l1g2000hsa.googlegroups.com>
     <A6ydnTGuVdVlV8DanZ2dnUVZ_g6dnZ2d@bright.net>
NNTP-Posting-Host: 97.84.159.244
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1197377261 1475 127.0.0.1 (11 Dec 2007 12:47:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 11 Dec 2007 12:47:41 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b1g2000pra.googlegroups.com; posting-host=97.84.159.244;
     posting-account=K8YolwoAAADy0A2iW37gF9k2mykeXqaI
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; IEMB3; IEMB3),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14816

On Dec 10, 6:25 pm, Scott <acepi...@bloomer.net> wrote:
> The post has been out there a while and we all assume it's a typo (I've
> never seen the original poster reply about that) but 1/2 a centimeter
> would make HUGE plates...1/2 a mm sounds MUCH more realistic...
>
> Scott
>
>
>
>
>
> Denny wrote:
> > On Dec 10, 6:58 am, Scott <acepi...@bloomer.net> wrote:
>
> >>Here in the USA, 0.020" aluminum is a standard thickness.
>
> >>http://www.aircraftspruce.com/catalog/mepages/alumsheet_2024t3.php
>
> >>Scotthttp://corbenflyer.tripod.com/
> >>Gotta Fly or Gonna Die
> >>Building RV-4 (Super Slow Build Version)
>

```
> >>terry wrote:
>
> >>>Rough and ready. One inch is 'about' 25mm?
> >>>So 0.5 mm = 1/50th of inch?
> >>>Which = 0.02 inches?
> >>>That correct?
> >>>So 0.016" would be close????????????
>
> >>--
>
> > Uuuh, I thought the OP said .5 CM, not MM... Slight difference by X10
>
> > denny
>
> --
> Scotthttp://corbenflyer.tripod.com/
> Gotta Fly or Gonna Die
> Building RV-4 (Super Slow Build Version)- Hide quoted text -
>
> - Show quoted text -
```

Ahhhh jeez, there you go again - wanting reality! And on usenet to
boot...

denny / k8do

```
From 8042479752011956021
X-Google-Thread: fc2a5,a3c072c064519ec9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!newsgate.cistron.nl!
xs4all!feeder.news-service.com!sn-xt-ams-06!sn-xt-ams-08!sn-post-ams-01!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3 tube am 75 meter mobile
Date: Tue, 11 Dec 2007 06:36:37 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13lt83hetutsqaa@corp.supernews.com>
References: <%GT6j.8$yk6.7@newsfe02.lga> <13ls76h3qfjkpbc@corp.supernews.com>
<9011a96a-4031-4573-ac66-a0f7cce52c70@e23g2000prf.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 9
Xref: g2news1.google.com rec.radio.amateur.homebrew:14817
```

And, remember that when you find an old carbon mike, rap it hard on the side
of the desk to shake up the carbon granules, that may have caked up sitting

for decades. This is one mike that wants to be almost swallowed.

Have fun.

Colin K7FM

From -420731212466216367
X-Google-Thread: fc2a5,a3c072c064519ec9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!r1g2000hsg.googlegroups.com!not-for-mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3 tube am 75 meter mobile
Date: Tue, 11 Dec 2007 08:26:38 -0800 (PST)
Organization: http://groups.google.com
Lines: 13
Message-ID: <0ba57931-2043-4e89-a31d-1394d9235223@r1g2000hsg.googlegroups.com>
References: <%GT6j.8$yk6.7@newsfe02.lga> <13ls76h3qfjkpbc@corp.supernews.com>
<9011a96a-4031-4573-ac66-a0f7cce52c70@e23g2000prf.googlegroups.com>
<13lt83hetutsqaa@corp.supernews.com>
NNTP-Posting-Host: 97.84.159.244
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1197390398 15109 127.0.0.1 (11 Dec 2007 16:26:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 11 Dec 2007 16:26:38 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: r1g2000hsg.googlegroups.com; posting-host=97.84.159.244;
posting-account=K8YolwoAAADy0A2iW37gF9k2mykeXqaI
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; IEMB3; IEMB3),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14818

On Dec 11, 9:36 am, "COLIN LAMB" <k...@teleport.com> wrote:
> And, remember that when you find an old carbon mike, rap it hard on the side
> of the desk to shake up the carbon granules, that may have caked up sitting
> for decades. This is one mike that wants to be almost swallowed.
>
> Have fun.
>
> Colin K7FM

Of course it has to be in transmit while you loosen the granules so
that there is good current flow through the granules...

denny / k8do

From -3067028398559354021
X-Google-Thread: fc2a5,9dd6839bc58dccc0,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!sn-xt-sjc-02!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Koltner" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 3.3V version of SA602?
Date: Tue, 11 Dec 2007 14:50:01 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13lu50p60livp47@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-Complaints-To: abuse@supernews.com
Lines: 11
Xref: g2news1.google.com rec.radio.amateur.homebrew:14819

Anyone know of a replacement for the venerable SA602 oscillator/mixer that'll work down to 3.3V?

I know that NXP has complete FM IF subsystems (e.g., the SA607) that work that low, but at the moment I'm just after a mixer and oscillator and wouldn't need the other goodies in an SA607.

Thanks,
---Joel

From -8299738596754045585
X-Google-Thread: fc2a5,779ea76c59b08b53
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 11 Dec 2007 17:15:59 -0600
Date: Tue, 11 Dec 2007 23:15:59 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where can I get aluminium foil (0.5 cm thickness) for Homebrew

```
  Butterfly Capacitor
References: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>
     <gMWdnbZF1ZceW8jaRVnyvQA@pipex.net> <c7ace112-c2cc-48e9-9f15-
f0cc0f87dc50@y43g2000hsy.googlegroups.com>
<nYKdnUOvXv6et8DanZ2dnUVZ_ournZ2d@bright.net> <b54b6a9f-
ddfa-4bac-9a74-4378df1d22b3@l1g2000hsa.googlegroups.com>
     <A6ydnTGuVdVlV8DanZ2dnUVZ_g6dnZ2d@bright.net> <64faa8fc-9f4c-4a85-adac-
fd0ee93e152e@b1g2000pra.googlegroups.com>
In-Reply-To: <64faa8fc-9f4c-4a85-adac-fd0ee93e152e@b1g2000pra.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <74qdnTCDc--yh8LanZ2dnUVZ_hWdnZ2d@bright.net>
Lines: 33
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-o2G6e/
IUl0TJukovvGoJkVVfLg6gFf9KfuYMzmdsEULA5O95DuPpNv6R0awThi8fFdBxK/TeQ+YIGhI!
Kkkxml9ZI7unrQre4O6Dzzg7GSkpXjHf8ogNv1U+GmSdReRkwNSiWI0cRzdUufdrlrOd3grQsVGY!
QyV+Ddgijw==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14820
```

Who, me? ;)

Scott
N0EDV

Denny wrote:

> On Dec 10, 6:25 pm, Scott <acepi...@bloomer.net> wrote:
>
>>The post has been out there a while and we all assume it's a typo (I've
>>never seen the original poster reply about that) but 1/2 a centimeter
>>would make HUGE plates...1/2 a mm sounds MUCH more realistic...
>>
>>Scott
>>
>>
>>
>>
>>
>>Denny wrote:

>
>
> Ahhhh jeez, there you go again - wanting reality! And on usenet to
> boot...
>

> denny / k8do

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

From 2463634482407839087
X-Google-Thread: fc2a5,aeff18afe6b35f9,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
wn14feed!worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: MORE MANUALS: TM'S,HALLI, NAT., GONSET...
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <U%U7j.247660$kj1.234419@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: 3da18ffe7d23680284d3e535ed9d77d4
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1197481076
3da18ffe7d23680284d3e535ed9d77d4 (Wed, 12 Dec 2007 17:37:56 GMT)
NNTP-Posting-Date: Wed, 12 Dec 2007 17:37:56 GMT
Organization: AT&T Worldnet
Date: Wed, 12 Dec 2007 17:37:56 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:14821

Just added more manuals for Hallicrafters, National, Gonset, HQ, & Mil
TM's: Trying to clen out the files: ORIGINAL & COPIES:

See at:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

Tnx , Heytubeguy

From 3994301658900199348
X-Google-Thread: fc2a5,61612928ba9c6220
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!i3g2000hsf.googlegroups.com!not-for-mail

From: electrochap@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2SB545A
Date: Wed, 12 Dec 2007 12:51:31 -0800 (PST)
Organization: http://groups.google.com
Lines: 16
Message-ID: <03167543-c123-4d77-9b52-f1de993d1f37@i3g2000hsf.googlegroups.com>
References: <506398ea-281e-40f0-9571-84c5ec4a29e1@d61g2000hsa.googlegroups.com>
    <pan.2007.12.05.06.14.48.803153@localhost.localdomain>
<U7KdnaOrX48ZoMTanZ2dnUVZ_r2nnZ2d@comcast.com>
NNTP-Posting-Host: 216.13.46.154
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1197492695 3764 127.0.0.1 (12 Dec 2007 20:51:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 12 Dec 2007 20:51:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i3g2000hsf.googlegroups.com; posting-host=216.13.46.154;
    posting-account=F2WS-goAAAB9rUHi5UGFXMQO-b0Mrmow
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
    CLR 1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14822

On 7 d=E9c, 07:35, "jack" <jdwal...@comcast.net> wrote:
> www.questcomp.com

Can we order for reasonable amount ? I found many distributors that
needed $300 per line when ordering stuff.

I put an order through ACME and finally they had only 1 available and
never told me before shipping it out. Which left me with an order of
$25 for 1 driver !!! They could refund me the transistor if I ship it
back to them... So I would have spent $20 for nothing ! (Price was
$11.99 ea.)

I'll keep it in case Andre can't send me those he has or even if
they're not "top shape"...

Thanks Jack

From 7392879541735632477
X-Google-Thread: fc8b1,9bdaac3183c8a32,start
X-Google-Thread: fc2a5,9bdaac3183c8a32,start
X-Google-Thread: 1109af,9bdaac3183c8a32,start
X-Google-Attributes: gidfc8b1,gidfc2a5,gid1109af,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out03b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
feed.cgocable.net!read2.cgocable.net.POSTED!53ab2750!not-for-mail
From: "Norm VE3CZI" <ve3czi@arrl.net>

Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.swap
Subject: FA: ETEK FR-4tr Readout for Drake TR-4 Transceiver
Lines: 6
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <mdw8j.23758$xa2.6294@read2.cgocable.net>
Date: Fri, 14 Dec 2007 09:14:38 -0500
NNTP-Posting-Host: 24.141.130.191
X-Complaints-To: news@cogeco.net
X-Trace: read2.cgocable.net 1197641682 24.141.130.191 (Fri, 14 Dec 2007 09:14:42 EST)
NNTP-Posting-Date: Fri, 14 Dec 2007 09:14:42 EST
Organization: Cogeco Cable
Xref: g2news1.google.com rec.radio.amateur.boatanchors:13415 rec.radio.amateur.homebrew:14823 rec.radio.swap:17985

For Auction:
http://cgi.ebay.ca/ws/eBayISAPI.dll?ViewItem&rd=1&item=320196221619&ssPageName=STRK:MESE:IT&ih=011

Tnx for Looking....Norm VE3CZI

From 438485779387025800
X-Google-Thread: fc2a5,6ff47af6480d66f,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!news.kjsl.com!news.lafn.org!not-for-mail
From: mark <bk416@lafn.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: potentiometer tic marks
Date: Sat, 15 Dec 2007 00:34:32 -0800
Organization: The Los Angeles Free-Net
Lines: 2
Message-ID: <fk03is$2e4d$1@zook.lafn.org>
NNTP-Posting-Host: 66-81-28-249.socal.dialup.o1.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: zook.lafn.org 1197707676 80013 66.81.28.249 (15 Dec 2007 08:34:36 GMT)
X-Complaints-To: usenet@zook.lafn.org
NNTP-Posting-Date: Sat, 15 Dec 2007 08:34:36 +0000 (UTC)
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14824

A general question, is their a free software program to make potentiometer tic marks.

From 7869117448503479977
X-Google-Thread: fc2a5,6ff47af6480d66f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!sn-xt-sjc-02!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: potentiometer tic marks
Date: Sat, 15 Dec 2007 05:50:14 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13m7mshj9mutr9a@corp.supernews.com>
References: <fk03is$2e4d$1@zook.lafn.org>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 10
Xref: g2news1.google.com rec.radio.amateur.homebrew:14825

There is a program called Graph Paper Printer byu Philippe Marquis in France. I use it and it is great for making such dials. You can designate the number of tics, the angle rotation that they cover and the starting point. Easy to use. I purchased a number of years ago and have not been able to find it recently. I think there were shareware versions, although I bought a key for mine. It is great for many different things.

73, Colin K7FM

From -4633635378212069308
X-Google-Thread: fc2a5,6ff47af6480d66f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 15 Dec 2007 08:16:15 -0600
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups: rec.radio.amateur.homebrew
References: <fk03is$2e4d$1@zook.lafn.org>
Subject: Re: potentiometer tic marks
Date: Sat, 15 Dec 2007 09:16:14 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <C6adndEZwcMyfP7anZ2dnUVZ_uidnZ2d@comcast.com>
Lines: 31
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.199.254.204
X-Trace: sv3-
v3kWQsiaAxYemAmoSsHHdq+pQu2DlTUmlnkpUrIe7X9C19c1wNqGrQn+sK95alqkJB919oUBvGHAgz9!
tiQnrjSoeQsl2PDPyds7g8dTl/6NiS0xGiJAudcy3goABb1Bz1096D8si6Nb2rqDLEurfh4xty5L!
NdG1uQcOkPo3b+7KeFJtR28SiiZfmU8=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14826

"mark" <bk416@lafn.org> wrote in message news:fk03is$2e4d$1@zook.lafn.org...
> A general question, is their a free software program to make potentiometer
> tic marks.

Of course, the best solution is a CAD software package such as Autocad or TurboCad, but they are not free (not even close!!). I have used a free (demo) software called Meter (http://www.tonnesoftware.com/meter.html) with great success. Its intended purpose is to design and print scales for analog meter movements, but in fact it can be used for anything that needs a circular pattern. I've used it many times for pot legends, and it works great for that. An advantage is that it will draw the lines, but also give you a label for the control (Volume/Tone/Bass/Treble/etc). It will also allow you to select the number and size of tic marks between the start and finish.

The only caveat is that the trial version allows only ten (10) sessions before the printing functions stop working. The workaround is to (1) buy the licensed version, or (2) uninstall after 10 uses, then reinstall. If you're using Windows XP or Vista, you can create a savepoint just before install, then restore after the 10 sessions run out. That will insure a clean install for the next 10 sessions.

--
Dave M
MasonDG44 at comcast dot net (Just substitute the appropriate characters in the address)

"In theory, there isn't any difference between theory and practice. In practice, there is." - Yogi Berra

From -240245068466611654
X-Google-Thread: fc2a5,6ff47af6480d66f

```
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns14feed!worldnet.att.net!63.218.45.10!
nx01.iad01.newshosting.com!newshosting.com!130.81.64.211.MISMATCH!
cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe02.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <fk03is$2e4d$1@zook.lafn.org>
Subject: Re: potentiometer tic marks
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <%vY8j.367$A83.286@newsfe02.lga>
NNTP-Posting-Host: edmokfndckpegejpmhkjjkpbbiejaafi
X-Trace:
pdjoodfomhkjcooblbdnpiohcfhaihogibbdlfbdgmlgeneaedmokfndckpegejpdfogoccdklnobnhdjc
ddeplipcdcalkidighkgkcbgpmehbjgieffecdalapiooiomdkhacceaoliiin
NNTP-Posting-Date: Sat, 15 Dec 2007 15:26:03 MST
Date: Sat, 15 Dec 2007 17:15:53 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:14827
```

"mark" <bk416@lafn.org> wrote in message news:fk03is$2e4d$1@zook.lafn.org...

> A general question, is their a free software program to make
> potentiometer tic marks.

http://www.hfradio.org/wb8rcr/

On the left, click on "Panel (not QSLMaker)"

..

```
From -6133197104599352524
X-Google-Thread: fc2a5,6ff47af6480d66f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!news.kjsl.com!
news.lafn.org!not-for-mail
From: mark <bk416@lafn.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: potentiometer tic marks
Date: Sat, 15 Dec 2007 14:41:03 -0800
Organization: The Los Angeles Free-Net
Lines: 13
Message-ID: <476457FF.1080205@lafn.org>
```

```
References: <fk03is$2e4d$1@zook.lafn.org> <%vY8j.367$A83.286@newsfe02.lga>
NNTP-Posting-Host: 66-81-23-61.socal.dialup.o1.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: zook.lafn.org 1197758467 94747 66.81.23.61 (15 Dec 2007 22:41:07 GMT)
X-Complaints-To: usenet@zook.lafn.org
NNTP-Posting-Date: Sat, 15 Dec 2007 22:41:07 +0000 (UTC)
To: xpyttl <xpyttl_NOSPAM@earthling.net>
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
In-Reply-To: <%vY8j.367$A83.286@newsfe02.lga>
Xref: g2news1.google.com rec.radio.amateur.homebrew:14828

xpyttl wrote:
> "mark" <bk416@lafn.org> wrote in message news:fk03is$2e4d$1@zook.lafn.org...
>>  A general question, is their a free software program to make
>> potentiometer tic marks.
>
> http://www.hfradio.org/wb8rcr/
>
> On the left, click on "Panel (not QSLMaker)"
>
> ..
>
>
Thanks guys they all sound like good programs.


From 1259818991943426366
X-Google-Thread: fa1dc,c578d65454e90219,start
X-Google-Thread: f79f6,c578d65454e90219,start
X-Google-Thread: fc2a5,c578d65454e90219,start
X-Google-Thread: fdf97,c578d65454e90219,start
X-Google-Thread: fe6d9,c578d65454e90219,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07111610521313@4ax.com>
Subject: MI5-Persecution: How Could It Be True? (854)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer,uk.misc
From: MI5-Victim@mi5.gov.uk
Date: 16 Dec 2007 10:52:16 GMT
Lines: 145
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 141
```

Xref: g2news1.google.com alt.conspiracy.antichrist:2842 alt.peeves:2112 rec.radio.amateur.homebrew:14829 alt.fan.nikki-dial:161 hr.org.fer:140402

MI5 Persecution: How Could It Be True?

If you have the patience to read these articles you will be struck by how apparently fantastic the claims being put forward are. You may ask yourself why such seemingly nonsensical assertions are made. This matter has been discussed on the Internets UK-local newsgroups for three years now, and the denizens of the uk.misc newsgroup (the so-called "miscreants") have come up with a number of theories to explain these posts; it has been variously suggested that they are a troll (an artificial creation for the amusement of its author), that they are made by MI5 themselves with the purpose of discrediting other conspiracy theories, and that the poster is mentally ill and the articles are symptomatic of the illness (the view held by most miscreants).

Are these claims the product of mental illness, or is that just a cover?

The most obvious explanation, that the claims made result from the admitted mental illness of the author, is the one which the persecutors intend be the one accepted without consideration being given to the possibility of the claims being true. The persecutors have actually been very clever about this, both in selecting as their target someone who was known from school or university as being borderline schizophrenic, and in ensuring the nature of their persecution corresponds to what often features in the delusions of a schizophrenic.

The very first incident of the persecution occurred in June 1990, when I was still a student at university in London. It consisted of a reaction (giggling) from the newsreader, Sue Carpenter of ITN, to what she saw happening in my living-room at my parents home where I was living. Before your imagination gets the better of you I should make clear that what the newsreader was reacting to was not too embarrassing in nature; my mother had brought an apple for me into the the room, and Sue Carpenter found this amusing.

I recognized that Carpenter had reacted to what she had seen in my living-room, yet this idea still seemed completely fantastic to me. My reaction was to continue watching television, particularly the news, to see if this incident would be repeated. It was, many times, both on BBC and ITV. An intelligent person would have thought to obtain a video recorder and capture some of these incidents in order to try to explain to an observer what he saw in these broadcasts. Unfortunately, I failed this test of intelligence, since I did not record these programmes. I have recently attempted to obtain from ITN tapes of their news programmes dating back to summer 1990, but, unhappily, they have advised me that they do not have complete programmes including newsreaders comments dating back to that period.

From the outset, the persecutors structured their actions to ensure that any complaint would be met with disbelief, and dismissed as delusional. This is why they chose as their target someone who was known at school and university to be borderline mentally ill; and it is why they fired the first shots of their campaign through the broadcast media. Schizophrenics commonly believe the media harass them; it would be exceptional for "full-duplex television" to exist in reality. Those with schizophrenia also commonly believe people are talking about them; again, the persecutors have shown themselves very rarely, but act through intermediaries, both in the workplace, and in public and during travel.

Mental illness is not the cause of these claims, but the simulation of its symptoms is a cover used by the persecutors to deny their victim the ability to have his compaints believed.

What evidence exists to support these claims of "interactive television/radio";?

Quite frankly, I have very little evidence to support my claims. You may examine the "Evidence" area of my website to see such evidence as I have been able to gather. None of it is remotely conclusive. The "smoking guns" all date back to 1990/91, and it is really rather late now to start trying to look for material dating back seven or eight years. In 1997 I started tape-recording every programme I watched or listened to. I also started carrying with me a high-fidelity minidisc-recorder with good quality microphone to catch incidents of public harassment, but this also has not been as successful or conclusive as I had hoped.

Perhaps the best item in the "Evidence" section is the audio file "Life is so hard" (it is labelled with Garfield the cartoon character on the site), which I have given a certainty level of 100%. This item relates to harassment at my workplace in Canada in 1996. A co-worker called Mark was coming up with phrases and expressions which were repeating things being said at my Canadian residence, consequently leading me to believe that my apartment and home phone were bugged, and that the persecutors were passing their gathered information on to Mark. On one particular evening I said in my apartment, "life is so hard, and then you die". The following day I was able to record Mark saying exactly the same phrase at work.

Unfortunately when "they" know you are recording them, they simply dont say things which would unambiguously show harassment. When Mark the co-worker knew he was being recorded, he only made his remarks out of range of the recorder, for example outside the building. When the TV newscasters or radio disc jockeys know they are being taped, they limit themselves to saying things which are ambiguous, which even in my mind may or may not be personally directed against me.

Who knows about this persecution?

Surprisingly many people know. People in the media, such as BBC and ITN newscasters including Martyn Lewis and Michael Buerk, and radio disc jockeys such as Chris Tarrant of Capital Radio, know what is going on, and take part in it. Some co-workers at my former workplaces in England and Canada have known about the harassment. Quite a few people in the general public are also included. I believe the police are aware of the persecution, but, unfortunately, have chosen not to take any action to stop it. I have complained at my local police station in London several years ago, and I have stated on the internet newsgroups that I have done so, hence the police will be well aware of my wish to see the matter resolved. I believe their inaction denotes a dereliction of duty, but without good evidence, I am powerless to compel them to take steps to prevent further harassment, or deal with what has already taken place.

What is the purpose of sending these faxes?

These faxes are being sent to three distinct groups of people, namely Members of Parliament, the media, and diplomats & legal people. As you will have observed I am making use of the email-to-fax gateway at Demon Internet to send these faxes. I am forced to use this gateway since I currently live in North America, and cannot afford the high cost of direct phone calls to the UK.

My purpose in publicising my claims is firstly to discourage the persecutors from continuing their campaign, and also to attempt to bring their campaign out into the open, and thus perhaps identify the persecutors. Neither aim has been achieved yet, but I hope that with sufficient stimulation these aims may yet be accomplished.

The problem with the second aim is that those who read this article will fall into two groups, those who dont know anything about the persecution and consequently will disbelieve my claims as delusional, and those who do know about the harassment and may have some idea of who is behind it, but realise that if the harassers are exposed and the truth brought out into the open, then powerful British institutions will substantially lose prestige, and be exposed to ridicule.

It would give me hope to believe that these faxes will create a third group of people, those who find out that I am telling the truth, and who follow their consciences in standing up and seeing justice done. Only time will tell if this hope will be realized.

854

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From -4764800788159765855
X-Google-Thread: fa1dc,10ca0525c931dbc8,start
X-Google-Thread: f79f6,10ca0525c931dbc8,start
X-Google-Thread: fc2a5,10ca0525c931dbc8,start
X-Google-Thread: fdf97,10ca0525c931dbc8,start
X-Google-Thread: fe6d9,10ca0525c931dbc8,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07111611492972@4ax.com>
Subject: MI5-Persecution: Why do you think MI5 are responsible? (3037)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
From: MI5-Victim@mi5.gov.uk
Date: 16 Dec 2007 11:49:32 GMT
Lines: 210
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 206
Xref: g2news1.google.com alt.conspiracy.antichrist:2843 alt.peeves:2113 rec.radio.amateur.homebrew:14830 alt.fan.nikki-dial:162 hr.org.fer:140406

Why do you think MI5 are responsible?

The question of who is ultimately responsible for this eight-year harassment is one which is very difficult to answer, as the persecutors have never clearly made their identities known to the persecutee. However, I believe I am correct in attributing the continuing victimisation to elements of the British Security Service MI5, and in this article, I will try to explain the reasons for this belief.

The British internet magazine ".net" featured my website on page 17 of their March 1998 issue (number 42). Their review kindly describes it as an "excellent site" and gives some details of what the net surfer will find there. Should you wish to reply to this article you can do so;

"When did you first suspect MI5 were responsible?"

Over Easter 1995 I went to see a local solicitor in London with a view to talking to the police about the harassment. Soon afterwards I did go to my local police station in Clapham and spoke to an officer there. The solicitor made a comment which suggested to me that the persecution I had been experiencing may have been organised by an intelligence service.

Up to this point, I did not have any clear idea as to who was behind the harassment. Only their agents were visible, in the media, on television news programmes, and on the radio; in the workplace, where things said at my home were repeated verbatim; and in some cases abuse in public and during travel, for example on the trip to Poland in June 1992 which I have already described.

Both from the fact that widely disparate individuals and organisations were employed as agents in the campaign against me, and from the fact that an entity would be required to marshal their resources in the areas of spying on my home and giving gathered information to their agents, it was clear to me that a single entity was responsible for carrying out the campaign. Yet from June 1990 until Easter 1995 I did not have a clear idea of who might be responsible. I guessed that perhaps some private individual or group of persons who saw themselves as my enemies had perhaps paid private detectives to organise the harassment. Alternatively, since the campaign had started in the media, I made a far-fetched supposition that perhaps it was an ad-hoc group of media people who had set themselves up in opposition to me. After Easter 1995 I saw that these guesses were wrong, and I made an I believe much more accurate estimate as to who my enemies really are.

"Why couldn't a private group be behind the persecution?"

There are several reasons why a private individual or group would not be behind this campaign.

Quantity of resources / Money. Here is what one Usenet (internet newsgroup) participant had to say (several years ago) on the topic of how much money it would cost just to keep the surveillance going.

PM: >But why? And why you? Do you realize how much it would cost to keep
PM: >one person under continuous surveillance for five years? Think about
PM: >all the man/hours. Say they _just_ allocated a two man team and a
PM: >supervisor. OK., Supervisor's salary, say, #30,000 a year. Two men,
PM: >#20,000 a year each. But they'd need to work in shifts -- so it would
PM: >be six men at #20,000 (which with on-costs would work out at more
like
PM: >#30,000 to the employer.)
PM: >
PM: >So, we're talking #30,000 x 6. #180,000. plus say, #40,000 for the
PM: >supervisor. #220,000. Then you've got the hardware involved. And
PM: >any transcription that needs doing. You don't think the 'Big Boss'
PM: >would listen to hours and hours of tapes, do you.
PM: >
PM: >So, all in all, you couldn't actually do the job for much less than
PM: >a quarter million a year. Over five years. What are you doing that
makes
PM: >it worth the while of the state to spend over one and a quarter
million
PM: >on you?

A private individual or group would not spend over a million pounds to verbally torture a victim without some financial motive or gain. Private industry is driven by the profit motive, and there is no financial profit to be had from carrying out a campaign in this way. If a private enterprise were behind it then they would have taken direct physical action a long time ago.

State enterprises, on the other hand, can afford to be wasteful, since they are funded by the taxpayer. They do not have to show a money profit. The employees or contractors employed by a state organisation such as MI5 are driven by their own personal profit motives, to make the most money out of their employers for the longest period of time. MI5 is funded to the tune of #150M p.a.; even a few hundred thousand a year would to them be affordable if their managers could convince themselves of the necessity of what they were doing.

Quality of resources / Technical resources - electronic and other surveillance. In summer 1994 a reputable and competent private detective agency was employed to conduct a counter-surveillance sweep of my home in London. They charged us over #400 for this, conducted a thorough search for radio transmitting devices, hard-wired "probe" microphones and also tested the telephone line. They found nothing. This was not altogether surprising, since it had been made very clear to me that there were bugs in my home; the "buggers" would not have made this clear unless they had felt their bugs were of sufficient sophistication as to be safe from detection.

But there is another lesson to be gained from the failure of the private detectives to find anything. The agency employed was one of the most reputable in London. They were employed on the principle of "setting a thief to catch a thief", for if the harassment were being carried out by private detectives, as I then believed, then surely another set of private detectives would be able to find the bugs that they had planted. That these "private eyes" were unable to find anything, and that the harassers were confident that they would not be able to find any bugs, points to the harassers being an order of sophistication above a private agency, and leads me again to believe that a state intelligence service is responsible for the surveillance and harassment.

Quality of resources / Technical resources - Interception of Postal service. In summer 1994 when I emigrated to Canada to try to escape the harassment, I wrote letters home to my family and friends in London. Quite soon after my arrival in Canada, the harassers were able to find precisely where I was staying. The only way I can see of "their" being able to find out my new address was by interception of my letters to the UK.

Later in 1994, I conducted an experiment to see if my letters home were indeed being read. In a letter home I wrote of being depressed and talked in vague terms of suicide. I deliberately chose this topic, since I believed it was the outcome my harassers were trying to achieve, and that if they read the letter, they would "echo" its contents. Sure enough, soon afterwards there were two incidents of people shouting "suicide" at me in public places in Canada.

It is inconceivable for a private agency to have the ability to intercept postal mail. The state security service on the other hand is well known to engage in these activities.

Quality of resources / Access to Media. One of the strangest aspects of this case is the access "they" have to the broadcast and print media. I still do not understand what could persuade newscasters such as Martyn Lewis and Michael Buerk, who consider themselves "gentlemen", to behave in an almost voyeuristic way by "peeking" into the living room of one of their viewers. A year ago I wrote to the BBC asking if these newscasters would confirm or deny the accusations made against them. The BBC replied that their newscasters had denied the accusations, but refused to do so in writing.

It is well known that MI5 have the ability to plant stories in certain newspapers, but convincing television newscasters to "watch" a viewer while they read the news would surely be very difficult for them to accomplish, unless they presented themselves to these journalists as being, for example, a group in the media who were seeing to it that I got my "deserved" treatment. MI5 has a history of manipulating the media, so it might not be too difficult for them to accomplish such a trick, whereas a private group would not have this ability.

"Have they ever denied that they are the Security Service?"

No. Never. This is in fact the main reason why I believe "they" are MI5 and not a privately funded group. If my guess had been wrong then I am sure that "they" would have crowed over my mistake, but they have never admitted nor denied that they are employees of MI5.

In early January 1996 I flew on a British Airways jet from London to Montreal; also present on the plane, about three or four rows behind me, were two young men, one of them fat and voluble, the other silent. It was quite clear that these two had been planted on the aircraft to "wind me up". The fat youth described the town in Poland where I had spent Christmas, and made some unpleasant personal slurs against me. Most interestingly, he said the words, "he doesnt know who we are".

Now I find this particular form of words very interesting, because while it is not a clear admission, it is only a half-hearted attempt at denial of my guess that "they" = "MI5". Had my guess been wrong, the fat youth would surely have said so more clearly.

"If MI5 were behind it, why would they wish to mask their involvement?"

I have heard a number of times a belief from people in the media that it is they, the media people, who are behind the abuse. In spring 1994 Chris Tarrant the Capital Radio D.J. said sarcastically on his breakfast show, "You know this bloke? he says were trying to kill him. We should be done for attempted manslaughter". We, we, we. Tarrant thought it was a media conspiracy.

Returning to the question of "interactive watching" by television newscasters, it would again be much easier for them to take part in that sort of activity if they convinced themselves that the surveillance and abuse were organised by "their own", by media people. It must be second nature to MI5 to mask their involvement in the matters they deal with; in this case, they pretend the campaign is organised by a group in the media, and any journalists who suspect otherwise keep their silence.

Conclusion

Over the last three years I have stated with some force my belief that MI5 are responsible for my misfortunes. I have done so on Internet newsgroups, in letters and faxes to people in politics and the media in the UK, and in 1997 I made a formal complaint to MI5 regarding their activities; the Security Service Tribunal replied in June 1997 that "no determination in your favour has been made on your complaint". (I believe the statement by the Security Service Tribunal can be disregarded, as they have never, ever made a ruling in favour of a complainant.) In three years of naming MI5 as my oppressor "they" have never denied the charge. To me, their silence on this point indicates that my guess was accurate. I believe my persecutors stand identified. The question of why they should carry out this campaign is one I will try to answer in a future article.

3037

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From -8055395610524214004
X-Google-Thread: fa1dc,b6cbd22dfa9bea00,start
X-Google-Thread: f79f6,b6cbd22dfa9bea00,start
X-Google-Thread: fc2a5,b6cbd22dfa9bea00,start
X-Google-Thread: fdf97,b6cbd22dfa9bea00,start
X-Google-Thread: fe6d9,b6cbd22dfa9bea00,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07111612162024@4ax.com>
Subject: MI5-Persecution: Why would they be doing this to you, sir? (5220)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer,uk.misc
From: MI5-Victim@mi5.gov.uk
Date: 16 Dec 2007 12:16:22 GMT
Lines: 203
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 199
Xref: g2news1.google.com alt.conspiracy.antichrist:2844 alt.peeves:2114
rec.radio.amateur.homebrew:14831 alt.fan.nikki-dial:163 hr.org.fer:140409
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MI5 Persecution Update: Friday 15 May, 1998

The persecution has been quite severe for the last week. It appears that my enemies are reacting to the steady stream of faxes making their way over the Atlantic to the fax machines of Westminster politicians and the media. Here is whats happened in the last few days;

The week started off with an incident in the cafeteria at a local shopping centre where I habitually drink my morning coffee. My enemies have concentrated since winter 1995/96 on throwing a particularly horrible sexual slander against me. They "put people up" to repeat this slander against me, and this is what happened again here.

On Thursday morning (yesterday), instead of going to the usual cafeteria I went to a nearby convenience store for coffee. The same horrible sexual slander was shouted at me very loudly by a member of staff as I walked into the store. This was the first time I had ever bought morning coffee in that shop. The other staff obviously knew what was going on, one of them said, "they screwed up my life".

The fax gateway I use to send these faxes to the UK has been working hard these last few days to shut down my access by barring the accounts I use to send these faxes.

I have received an anonymous threat from fax number 0171-219-6101 (the machine gave its name as "ETRA-HoC") which said, "Stop sending to this fax no 0171-219-6101 or else" (the consequences of continued transmission were unspecified). I invited the sender to apologise for his threat, but received no response.

This all adds up to quite a severe reaction to my faxes of the last few weeks. I actually find this quite heartening since it shows that my faxes are finding the mark and there may yet be a breakthrough in my efforts to expose the Security Service conpiracy of abuse against me which has now been going on for eight years.

MI5 Persecution: "Why would they be doing this to you, sir?"

This article will concentrate on the difficult question of "Why". The question which forms the title of this piece was asked of me by the police officer I spoke to in Easter 1995, when I went to make my complaint.

There are really two sides to this question. Firstly, why should MI5 be harassing anybody in this fashion? Secondly, if they choose to behave in this way, why should they have selected me in particular, and not somebody else? Alternatively, why did the persecution start, and why is it continuing?

I do not have definite answers to either side of this question, since my persecutors have usually kept themselves hidden and only acted through other parties. To know "why", one would have to know who the persecutors are, and something of their personalities, since their abuse is almost certainly symptomatic of a personality disorder of the abusers. Certain things however can be deduced about the abusers from the nature of their behaviour, and I will talk about this later in the article.

Why did it start?

It is clear that the persecution must have been initiated by someone who knew me personally, either at school, or at university, or socially, and knew that I was borderline mentally ill, since this is what makes me a target for the persecutors. Unfortunately, the originators have never been identified, and there are several possible candidates. Neither has the link from the originators of the persecution, to the persecutors themselves, ever been made clear. So who are the originators?

University Staff

The identity of the originators may lie in the timing of the persecution. It started in June 1990, while I was finishing a course at Imperial College in London, and a year after I graduated from Cambridge, where I received a degree in computer science. At Cambridge I had achieved some notoriety in the computer lab from various nefarious exploits. Roger Needham attacked me by saying that "there were great hopes for it, but it failed terribly". When I started at Imperial I found that my reputation had preceded me; Cambridge computer lab had spoken to I.C. lecturers about me. I.C. lecturer Frank McCabe summed up commenting about "setting up a straw man so you can tear him down". (Despite being "torn down" by the Cambridge computer labs lecturers, I still achieved a good first degree and a Masters degree at Imperial.)

Other students at university

So, the originators may have been university staff who knew me from my student days. But there are other possibilities. I had other enemies at university, including some fellow students. At my Cambridge college it was common knowledge that my mental health was dubious, and it was known that I talked to myself in my sleep - the floor and walls were quite permeable to noise, so other students heard. I was given the nickname "gibber" because of this habit. Sometime later, I managed to catch myself talking in my sleep when I woke up in the middle of the night.

Here is a quote from a participant in the internet newsgroup where I have been posting for the last three years;

>One thing which has been missing from this discussion is this simple
>prognosis: that maybe he is right and that, despite his admitted
>mental condition, there really is a campaign against him organised by
>now-influential ex-students of his university.

People I knew socially

I had yet other enemies in 1990 (I am a man of many enemies!). In January 1990 I broke up with some people I had been going out with socially. One of them, by the name of Andy Turner, wrote a letter to Alan Freeman, who at the time was a Radio 1 DJ. Freeman read part of the letter out on his Rock Show, about the "one who wore out his welcome with random precision", saying "thats a hell of a letter you wrote there Andy", and "with a schizophrenic youre never alone".

It is my belief that Andy Turner and his friends were trying to make trouble for me, and Turner wrote to Freeman with this in mind. Freeman may have discussed the letter with others, and things may have snowballed from there. This is, of course, pure supposition. The fact is that I do not know who the originators are, and can only guess.

Once it started, why is it continuing?

The answer to this question is obvious. It is unacceptable to the "powers that be" in the UK to have somebody running around who knows he has been targeted by the Security Service and media organizations, and who is in a position to embarrass British institutions. This has become particularly evident in the last week; as I send more faxes to UK politicians and media, so the pressure on me grows, and the volume of abuse increases.

Part of the reason the persecution continues is in the personalities of the abusers, and it is this subject to which I will turn to next, since the key to understanding the persecution lies in understanding those who carry it out, as much as we can.

The Security Service operatives, the persecutors, are they psychopaths?

Let us first examine the definition of the term "psychopath". DSM-IV defines "anti-social personality disorder" as a "pattern of disregard for and violation of the rights of others ... deceitfulness, irritability and aggressiveness ... consistent irresponsibility and lack of remorse". The Harvard Mental Health Letter of Sept 1995 describes these people as using "charm, manipulation, intimidation and violence to control others and satisfy their own needs. Lacking in conscience and in feelings for others, they cold-bloodedly take what they want and do as they please", having "no guilt or regret".

I must say, reading this description of the condition, that it fits the persecutors perfectly. The persecutors have never shown the slightest remorse or guilt. Even when I was severely ill, they continued to abuse me. They have repeatedly blamed their actions on me, which is another trait common amongst psychopaths. They have no respect for my legal or personal rights, and they use intimidation and verbal violence.

If the MI5 operatives are psychopaths then it would explain both why the persecution started, and the degree of verbal violence. Psychopaths by definition damage other people; here, the MI5 operatives find an outlet for their personality disorder, through "cripple-kicking".

Xenophobia on the basis of mental illness, and race

My enemies have made clear many times that one of the reasons they are persecuting me is because of my admitted mental illness. However, it is my belief that they are also persecuting me because I am not of ethnic English origin, and the fact that there have been several incidents of an overtly racist nature reinforces this view.

In one case, two youths on a tube train in London made openly racist references to me as a "soft toy, not up to British Standards". Another person near my home made remarks about "Polish people". In yet another incident in Croydon, a youth made comments about "foreigners".

But the main thrust of their xenophobia is because of my mental illness. I should make clear that I do not look ill; if you met me, you would not know that I had the illness. I take a relatively low dose of medication, and feel quite well. But the persecutors have repeatedly harped on about my supposed serious mental illness; they have called me a "nutter", a "schizophrenic", etc. They have also persuaded other people to use these terms of abuse. They are able to get away with this because abusing the mentally ill is still something which is mostly acceptable in Britain; the media do it, "nutter" is not taboo in the way that "nigger" is.

Conclusion

There are several groups of people who might have wished to cause me trouble, and I still do not know who originated the persecution. Nor do I know how the originators came to be in contact with the (presumed) Security Service operatives who have been carrying out the campaign. To know conclusively why it started, we would have to know who started it, and this information is not available.

However, we can infer some things about the personalities of the persecutors from their methods, and from the degree of verbal violence they employ. It is clear that a main reason for the continuing harassment is the psychopathic disorder of the MI5 agents who carry it out. That they have never been "brought to book" for their misdeeds reinforces their belief that they do no wrong; and, unhappily, until they are brought to book, their persecution campaign looks set to continue.

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From 8699593358170396224
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X-Google-Thread: f79f6,f923e106c23ba5e8,start
X-Google-Thread: fc2a5,f923e106c23ba5e8,start
X-Google-Thread: fdf97,f923e106c23ba5e8,start
X-Google-Thread: fe6d9,f923e106c23ba5e8,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
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Message-Id: <m07111612434854@4ax.com>
Subject: MI5-Persecution: .net Magazine Applauds my Website (7403)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
From: MI5-Victim@mi5.gov.uk
Date: 16 Dec 2007 12:43:51 GMT
Lines: 22
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
Xref: g2news1.google.com alt.conspiracy.antichrist:2845 alt.peeves:2115
rec.radio.amateur.homebrew:14832 alt.fan.nikki-dial:164 hr.org.fer:140413

MI5 Persecution: .net Magazine Applauds my Website

The March 1998 issue (number 42) of .net Magazine reviews the MI5 Persecution website describing it as an "excellent site". The webpages describe in detail the nature of my persecution since 1990 by what are believed to be elements of the UK security service.

(snip image)

You are encouraged to read the web pages which include

o   a FAQ section outlining the nature of the persecutors, their methods of harassment through the media, people at work and among the general public
o   an evidence section, which carries audio and video clips of media and workplace harassment, rated according to how directly I think they refer to me
o   factual descriptions of the state security agencies involved
o   scanned texts of the complaints I have made to media and state security agencies involved
o   posts which have been made to netnews over the last three years on this topic

7403

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

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Date: 16 Dec 2007 13:08:02 GMT
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MI5 Persecution Update: Friday 13 November, 1998

If You Intend To Reply, Please Read This

If you have any questions or observations you would like to share with me, then you are very welcome to reply to my fax number 0171-681-1190. But please.... keep your response to one page if you can! I have had several people faxing my article back to me, including one MP faxing back twenty pages. I do not know if he had anything intelligent to say in his 20-page fax because I applied judicious use of the "Delete" key on my computer. Faxes over a page or two will be deleted without being read.

MI5 Resume Hostilities in Response to these Faxes

When I wrote last weeks "MI5 Persecution Update" I remarked how quiet my life had become. No longer! MI5 have restarted hostilities with a vengeance the past week, in response I believe to the faxes I have been sending to members of the House of Commons.

On Saturday 7 November I went to Clapham Picture House cinema to see the film "Antz" (a very enjoyable film). At the cinema, I was verbally assaulted by a group of teenagers with the words "still crazy", repeated about ten times. There was a film with that name showing at the cinema, but it was clear their abuse was directed at me. I do not look ill, so why would they pick on me? answer, the incident was set-up by the persecutors. One of the teenagers also said to another, "I don't know what we're laughing at".

The following day, Sunday 8/11/98, I was on my way to play squash when I was verbally assaulted by a youth who said "it was so funny", without the slightest trace of humour. What he meant by this phrase was that was funny, and they were trying to humiliate me. I have heard this phrase "it was so funny" used at me before many, many times over the last eight and half years.

Please Encourage Keith Hill MP to Help Me

I live in a bugged house, bugged both for audio and video. My movements are monitored by MI5. The Security Service have followed me to Canada, to Poland and the Continent, to the States. I cannot work anywhere, not in England, not in Canada, because MI5 will destroy whatever employment I am able to obtain. I have asked Keith Hill MP to help me, and he has refused.

The situation is intolerable. It is Mr Hills job to help me out of this mess. So, please, as I said in the last fax a week ago: Do not waste your time returning multiple copies of my faxes to my fax mailbox, as some of you have done. Instead;

Please encourage Keith Hill M.P. to help me.

I am sorry to be using this device to encourage Mr Hill to help, but I think eight and half years are quite enough and it is time something was done to bring this matter to a close.

MI5 Persecution : BBC Newscasters Spying on my Home

This week's topic is the quite extraordinary claim that BBC newscasters such as Martyn Lewis and Michael Buerk have spied on my living room while they read the news. I currently have an advert running for the next six months in Private Eye's "Eye Say" column (at a cost of over #200) which says,"MI5 Persecution - BBC Newscasters Spying on my Home"; the story of my campaign in the Eye is on my Website at; http://www.pair.com/spook/evidence/plaint/priveye.htm

BBCs staff magazine Ariel also ran my advert "BBC Newsreaders Spying on my home" for one issue in the Personal category on 8/July/1997 before it was spotted and axed by editor Robin Reynolds; please see webpage; http://www.pair.com/spook/evidence/plaint/ariel.htm

Beginnings

The very first incident in the "MI5/BBC Persecution" occurred in June of 1990, when a newsreader reacted to what she saw in my living room at home as she read the news. My mother had brought an apple for me into the room, whereupon the newsreader smirked and giggled, apparently finding this funny. I couldn't believe what I was seeing. I carried on watching news and other television programmes to see if presenters would show signs of "interactive watching"; to my surprise, this happened again and again. Unfortunately, I did not have my wits sufficiently about me to videotape these programmes, and it is now almost impossible to obtain recordings dating back to 1990.

Most of the "TV watching" has occurred on the news, and most of it in summer 1990, although some as late as autumn 1993. My website has a few extracts of what might be politicians "getting at" me, in particular John Major and interviewer Dimbleby sharing a joke about the "Knutsford Guardian" which is almost certainly about me.

I sold my portable TV in autumn 1990 and stopped watching television regularly. I realise now that this may have been a mistake. What I should have done was to watch TV and listen to the radio, but tape-record everything and make a note of what each excerpt meant to me. I would then be in a much stronger position as regards to evidence that I am now. That is what I am trying to do now, but unsurprisingly the TV/radio presenters have stopped getting at me, now they know they are being recorded.

Examples of Media Harassment

Here are a few examples which I can still remember of media harassment;

In early 1992 I was watching the BBC news with Martyn Lewis on a small black-and-white portable television at my then home in Oxford. I threw a term of abuse at Lewis; he flinched, then gave a grin and made a comment from which I understood that he had been on my side, but might have changed his mind as a result of what Id just said to him.

Victor Lewis Smith in his TV (BBC2?) program at the end of 1993, had a taxi-driver saying, "theyre all out to get me", to which VLS replied, "but you're quite intelligent aren't you?" (what a nice chap VLS is, compliments no less!)

Paul Daniels the TV magician, sometime in 1990-92 (sorry I can't be more precise but it was so long ago), made a "crying face" and put his face in his hands, which was his way of expressing that I was frequently crying in 1990-92, and that he and other media people found my crying funny.

Kenny Everett (deceased) on some talk show, compared me to a "huge ape" who "scratches himself"; he made some other remarks about what the "ape" got up to which unfortunately I cant remember. (I remember that Everetts comments were quite sympathetic and human, but were obviously about me.)

Stephen Fry on another talkshow (Wogan I think) talking about "masturbatory fantasies", he then referred to me with the words "you prat"; I wonder if the studio audience knew what he was talking about and to whom his comments were directed?

Griff Rhys Jones on Clive James' TV show, made a "lunatic face" (wide fixed grin) to which I said to the TV that he had a "face like a horse's arse", to which Clive James said to GRJ "did you hear that?"

Crimestoppers summer 1990, remarks by a Midlands police officer on the programme, while Nick Ross was presenter (as far as I can remember). The officer talked about "in car entertainment". Nick Ross said to officer, "why don't you stop doing it?" to which he replied, "we can't while he's like this".

BBC2 Newsnight in autumn 1993 had a piece on football hooliganism. A black interviewee said apparently of the hooligans, but in fact of me; "they're just idiots, carry on with the surveillance".

There was an incident with Jonathan Ross which I remember clearly; he was on both BBC and ITV television at the same time, one (ITV I think) was recorded, the other channel was live. Ross has a speech impediment which causes him to pronounce his "r"s as "w". I sarcastically said something about "Mr Woss" to the recorded channel, then turned over to where he was live, and he repeated "Woss" with heavy emphasis and sarcasm.

On the radio, in spring 1994, Chris Tarrant made a sarcastic remark in his morning show, saying "he says were trying to kill him, we should be done for attempted manslaughter", to which another of the studio staff said, "oh no, dont say that". His comment was in reply to a comparison Id made the previous evening between my persecutors and the Polish secret police who murdered dissidents.

Martyn Lewis Denies & Lies, But Wont in Writing

In February 1997 I wrote to BBC Viewer & Listener Correspondence and asked them to investigate the claim that their newscasters had engaged in "interactive watching". They replied that they had asked Martyn Lewis and Michael Buerk whether they had engaged in such practices, and that they had both made verbal denials to VLC, but were refusing to put their denials in writing.

I can understand that they might think that if they were to make written denials to me, then many other people with my condition might write to them with similar questions. But Ive asked a couple of journalists if theyve been writing about me, theyve made written denials, Ive believed them, and I have not put their denials on my website because, since I believe their denials, it would not be relevant to publish them.

To me it looks as if Lewis and Buerk are happy to lie verbally but not in writing, because written falsehoods would place them unambiguously in the wrong, whereas they can try to talk their way out of verbal lies if they are ever caught, or perhaps even deny the verbal lies completely? If they lie without shame, then why would they have any shame about future lies about lying?

One of the strangest aspects of "TV watching" is that Buerk and Lewis have convinced themselves that their "interactive spying" is reasonable behaviour. Martyn Lewis thinks of himself as a "gentleman". He expressed in 1992 that he was "on my side". If this matter ever comes out into the open, I wonder what these newscasters will have to say for themselves, and what the British public will make of their behaviour?

Media Persecution Evidence on my Website

You may directly access the Evidence section on my website at URL;

The category currently contains four video segments, a number of audio files and three published articles. The first video of ITN's John Suchet is unfortunately a mistake - after looking at it again it is obviously not about me. The two Ken Clarke excerpts may or may not be about me; it is funny that he should keep on harping about "paranoia" and "madness", but I have given these ratings of only 30% certainty, as it is more likely that they are not about me in particular, and Clarke is simply displaying the normal prejudices against the mentally ill found in much of society.

The piece I find most interesting is the Dimbleby/John Major interview from April 1997. I have assigned this a 90% rating. Dimbleby starts by emphasising a report from the "Knutsford Guardian". Major recognizes what's going on and joins in with a falsely apologetic "heaven forfend". The emphasis is on the first syllable pronounced "nuts" in "Knutsford", which is repeated three times. Of course this is hardly anywhere near convincing evidence; the really clear items were all in 1990-92, and they are basically unobtainable now.

If you're reading the website, have a look at the two files from David Hepworth's programme on GLR radio. The first one from 21/Feb/1997 has him talking about an "embarassment" of prizes and "absolute obscene", in reference I believe to the verbal sexual abuse that was being used against me at the time (and which unfortunately is still current). In the second file dated 9/May/1997 he again talks about "absolute embarrassment" of prizes, followed by laughter. To my mind he knows I am listening to his programme, and deliberately makes these remarks for my benefit, with very little attempt to disguise their purpose.

Bernard Levin - "Fanatic's Fare for the Common Man"

On 21 September 1991 this article by Bernard Levin appeared in The Times. It is reproduced in the Evidence section of the website, or may be accessed directly at URL;

To my mind, Levin's article described the situation at the time and in particular a recent meeting with a friend, during which I for the first time admitted to someone other than my GP that I had been subjected to a conspiracy of harassment over the previous year and a half.

Levin writes about a "madman running loose about London" who "bursts into tears, and swears it is all true. And it is." I am pleased to agree with his assertion that "it is all true" because the truth is what I presented to my friend in September 1991 and it is what is being presented to the readership of these articles now.

Conclusion

The harassment, in particular media persecution, was at its strongest in 1990-92. Today, I am recording everything I watch, read and listen, and the media have pretty much given up. It is now incidents "in public" which make up what there is of MI5s persecution. But much of the material from 1990-92 still exists in archives, although the organisations which have those archives generally wont make the material available to the public, for copyright and other reasons.

MI5 can no longer employ the media to persecute me, partly because journalists now know who is behind the persecution, and also because I would publish any instances. My mistake during 1990-92 was to not record instances as they happened; Ive learned from that mistake, and know better now.

9586

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Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

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Date: 16 Dec 2007 13:31:38 GMT
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X-Original-Lines: 142
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rec.radio.amateur.homebrew:14834 alt.fan.nikki-dial:166 hr.org.fer:140423
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MI5 Persecution Update: Friday 19 March, 1999

If You Intend To Reply, Please Read This

Please.... keep your response to one page if you can! I have had several people faxing my article back to me, including one MP faxing back twenty pages. Faxes over a page or two will be deleted without being read.

Theyve started again. Why? I have no idea.

Unhappily, the persecutors, whoever they might be, have started their activities again over the last two weeks. Usually they try to blame their activities on their victim, but this time they have stopped even pretending that the persecution is my fault. Their verbal abuse appears as gratuitous as it is vicious.

Last Sunday 14 March, I went for a meal in Londons Chinatown with some friends. As we were walking down Gerrard St, a man shouted loudly, twice, the obscenity which has been directed at me for some three years now. This followed previous incidents where the same words had been used. It is very upsetting to be verbally abused in this way and to know that the cowardly abusers are guaranteed to "get away with it" because if you report it then it will be assumed to be part of your illness.

Keith Hill MP (Labour - Streatham), my elected representative, as ever refuses to help.

MI5 Persecution : How to Identify the Persecutors

Usually delusional thinking does not allow the perpetrators to be identified, or the alleged persecution to be proved. My so-called "delusions" are different, because I have several times over a period of some nine years seen the same people, in widely varying places. Most importantly, their names have been recorded, on aircraft passenger lists and hospital register; and if only the police would do their job conscientiously then the persecutors could be identified and this unhappy story brought to a final conclusion.

BA93 Heathrow->Toronto, 10 June 1993

In 1993 I flew to Toronto for a holiday. On disembarking from the aircraft, a group of four men who travelled together looked in my direction, and one of them said, laughing, "If he tries to run away well find him".

I was absolutely stunned when I heard this. I wasnt surprised that they had followed me to Canada, but it shocked me that they had been on the same flight, and that one of them had foolishly given their group away. Unfortunately I was so stunned that I made no attempt to stop them as they got off the flight and proceeded into the terminal. I did not see these people again during my visit to Toronto. I do not know whether they followed me, or whether they were only part of a larger group, some of whom may have already been on the ground and awaiting my arrival.

Over the next few years I made a number of attempts, all unsuccessful, to obtain the passenger list for this flight. British Airways keeps passenger flight coupons for each flight; so if only the police would do the job that is being asked if them, then these four persecutors could be identified, and thus their employing organisation, which is very likely to be the Security Service, determined.

These four men were, apart from the joker who looked the odd man out in the pack, very serious individuals. They appeared to be in their forties or fifties, and my impression on seeing them was that they might have been former soldiers. Their campaign against me concentrates on how "funny" their abuse is; but in this they are plainly lying, because they realise how awful will be the damage to the establishment of which they form part, if the truth about the persecution ever sees the light of day.

The riddle of "Alan Holdsworth"

During Oct/Nov 1996 I saw a doctor several times about an infection, and on 2 Nov 1996 I went to Emergency at the Ottawa Civic Hospital and saw Dr Worthington, who was then Chief of Emergency Medicine. I had to wait several hours before being seen, and several people jumped ahead of me in the queue. One of these was a grey-haired man in his forties or fifties. This may have been one of the men on the BA flight in 1993; I cannot be sure. When Dr Worthington asked his name, he loudly said, "Tad", which is the common abbreviation of my name. Dr Worthington looked puzzled, glanced at the sheet in front of him, and said, "but your name is Alan Holdsworth isnt it?". (I am pretty sure his Christian name was Alan; I cannot be sure of the surname). The man looked put out, and said quietly, "yes".

Unfortunately, I did not follow up this incident immediately. Some time later, I wrote to Dr Worthington to ask the name of this patient, but he refused to give the name out.

I saw this person again two and a half years later, at Ottawa Airport, just as I was about to leave for England. In the warm weather, he was wearing a coat and woolly cap, and pacing up and down in a menacing and aggressive manner. Presumably he thought he was pretending to be a "nutter" and in this way was getting at me; my impression is that he doesnt need to pretend, Holdsworth or whatever his name is is clearly a psychopath and in a healthy society such a person would be locked up, instead of being paid public money to exercise his psychopathic instincts. But todays Britain, a country where the MI5 secret police are given free rein and nobody dares raise a voice in protest, is not a healthy society.

"He doesnt know who we are"

For some reason, whenever I take a British Airways flight, I get hassled by the "persecutors who wont admit theyre MI5". Since this business started, I have travelled BA three times; once in June 1993 BA93 (see above), once to/from Europe during Dec 95/Jan 96, and once in June 1998 with my mother to visit her family. The last journey, I was abused by two "plants" who kept repeating, loudly, "paranoid" (I have this recorded on minidisc). Presumably British Airways gives MI5 the seating plans for their flights, which allows MI5 to position their agents of abuse three rows behind me, so I cant face them, and they are throwing abuse at the back of my head. I have travelled BA as infrequently as possible; to Canada, I usually travel Air Canada.

Anyway, lets return to the second of the three BA trips, and in particular to the flight on 2 January 1996 from Berlin Tegel, to Heathrow, and onwards to Montreal Mirabel. Id waited all night at Tegel for the flight, and was very tired on reaching Heathrow. On the plane to Montreal, two youths sat about three/four rows behind me and to the right, in the window seats. One of them, a rather fat "asshole" to use the Americanism (it fits), kept on going on about "this bloke", saying among many other things, "he doesnt know who we are".

Now that form of words is particularly interesting, because from May 1995, some 8 months previously, I had been vigorously denouncing the "MI5 Persecution" on Usenet. So if Id guessed wrong, then you might expect the harassers to crow about it; which they have not done. If I had guessed right, and the persecutors have been silent before and since this flight, then they could either admit they were MI5, which would be a very serious thing for them to own up to, or they could brazenly lie, in which case I would report their lie, and since many people must surely know who they are, they would lose all credibility. So they have remained silent; apart from this one phrase on the BA flight, where one of their agents said, "he doesnt know who we are". Note carefully that this phrase is NOT a denial, it only appears to be a denial; since it does not say that my guess was wrong; it only states the objective fact that I do not know the identity of the persecutors, without giving any information as to the validity of my guess. Which leads me to posit that my guess was correct.

11769

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rec.radio.amateur.homebrew:14835 alt.fan.nikki-dial:167 hr.org.fer:140430
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MI5 Persecution Update: Friday 25 March, 1999

If You Intend To Reply, Please Read This
Please.... keep your response to one page if you can!. Faxes over a page or two will be deleted without being read.

The Usual Words

The persecutors-who-wont-admit-theyre-MI5 have been active again this week. On Saturday 20/3/99 I visited Ravenscourt Park in west London, and was verbally assaulted with the usual words, "something wrong with him". This audio file is on the web at URL;

This afternoon (Friday 26/March) I was again verbally assaulted while travelling by bus. The same sexual obscenity was thrown at me, and the incident was recorded on my minidisc-walkman. Because of the deeply offensive nature of the slander, I will not be posting this on the website.

Keith Hill MP (Labour - Streatham), my elected representative, as ever refuses to help.

MI5 Persecution : Browse Website

The March 1998 issue (number 42) of .net Magazine reviews the website describing it as an "excellent site". Since August 11, 1996 over 50,000 people have browsed this website.

You are encouraged to read the web pages which include

a FAQ (frequently asked questions) section outlining the nature of the persecutors, their methods of harassment through the media, people at work and among the general public

an evidence section, which carries audio and video clips of media and workplace harassment, rated according to how directly I think they refer to me

objective descriptions of the state security agencies involved scanned texts of the complaints I have made to media and state security agencies involved

posts which have been made to netnews over the last four years on this topic

This article outlines what is to be found on the webpages, which you are encouraged to browse for the complete story.

Frequently Asked Questions

Your excursion through the website starts with the "FAQ - Frequently Asked Questions" portion. MI5s campaign of harassment against me has been going on for almost 9 years, and its longevity and breadth is reflected in the FAQ. Many thousands of people in Britain and abroad, including some recipients of this fax, have known for many years of MI5s activities against me. The FAQ describes the mass "Omerta suppressing its publication"; we pretend Britain is part of the "Free World", yet the British Secret Police, which is what MI5 are, carry on for many years a campaign which politicians and the media know about, and rely on the silent complicity of so many thousands of people.

The FAQs introductory article names those who are "in the know"; media figures like Martyn Lewis, Michael Buerk, entertainment figures like Chris Tarrant, politicians and many in the general public, "all united in a conspiracy which breaks the laws which the UK does have regarding harassment, and all completely uncaring for any semblance of decency or elementary respect for individual rights.

Broadcast media play a key role in the harassment. The very first incident in June 1990 was when a television newsreader reacted to what she saw happen in my living room at home; such incidents of "interactive television" are still happening in 1999. The same goes for radio stations such as Capital FM. In spring 1994, Chris Tarrant on his Capital morning show made an aside to someone else in the studio, about a person he didn't identify. He said, "You know this bloke? He says we're trying to kill him. We should be done for attempted manslaughter". Tarrant and Capital have made strenuous efforts to avoid answering this charge.

Perhaps worst of all, MI5 have deliberately set-up many incidents in public places such as tube stations, shops, cinemas, where they have paid people to throw abuse at me. Since MI5 obtains funds to the tune of 160 million a year to fund its criminal activities, it has funds both to pay its operatives and to "buy" media figures and members of the public to take part in its campaign of persecution.

The Security Service are professional liars. They throw slanderous abuse, yet they refuse to admit out loud that they are doing so. When challenged about their activities through the Security Service Tribunal they lie and deny their activities. They induce other workers and managers at places of employment to take part in their campaign of abuse, presumably by buying them in the same way they buy media figures.

Complaints, and Press Coverage (BBC Lies, MI5 Lies)

As you might expect I have challenged both the Security Service, through the Security Service Tribunal, and offending broadcasters, to own up to what they have been doing. And as you might also expect, all of these people have lied through their teeth. Still worse, they have refused to commit unambiguous lies on paper; they have couched their lies in bureaucratic language, and allowed others to make false assurances and tell lies on their behalf. So when their lies are exposed, they will then tell further Clintonesque lies about how they werent really telling lies in the first place!

On 6/Feb/1997 the BBC told me they would "never engage in any form of surveillance activity such as you describe". The BBC told me Buerk and Lewis had refused to put their lies in writing, but had stated verbal falsehoods denying my accusations of "interactive watching" during news broadcasts. Clearly Buerk and Lewis fear being caught and exposed, so they hide behind their Viewer Correspondence department.

In March 1997 I issued a summons against the BBC to try to "smoke them out". This summons was struck out as "disclosing no reasonable cause of action", because I had acted as a Litigant-in-Person and most LiP summons are treated thus. My case was arguable in law, so the striking out was unjust.

In June 1997 the Security Service Tribunal wrote to me regarding the complaint I had brought against MI5 in February. They say, "The Security Service Tribunal have now investigated your complaint and have asked me to inform you that no determination in your favour has been made on your complaint." I think you can guess the contempt which I feel for the Security Service Tribunal, who have never made a determination against MI5, and act as merely a whitewashing body for the Security Service. Unsurprisingly in May 1997 the Interception of Communications Tribunal gave the same result.

The last few items of "Press Coverage" give details of mentions of the MI5 Persecution in various magazines and newspapers such as BBCs Ariel, the Observer and .net magazine.

Evidence

Some audio and video clips of evidence have been recorded. My weakness in this area is because most of the really unambiguous evidence would have been obtainable in 1990-92, but I wasnt taping anything at the time, and its very difficult to now obtain recordings from that period.

The audio clip "Life is so Hard" relates to harassment at my workplace in Canada. In the latter half of 1996, I was sitting near to co-worker Mark Lee, who kept coming out with words and phrases which showed MI5 were supplying him with data from my home life. For example, I would say something on the telephone at home, and the following day he would repeat verbatim what I had said. When Mark Lee saw I was recording what he was saying, he started to make his remarks more ambiguous, or make the obvious ones out of earshot of the recorder.

However, during the evening of 12 November 1996, at home in my apartment (flat to you UK-ers), I said "life is so hard, and then you die". A nihilistic, negative thing to say, but quite distinctive. The following day, 13 November, Mark said loudly, "life is so hard eh, and then you die" followed by loud laughter. I captured this on my tape-walkman and the computer-audio file is posted on the website.

There are a number of other audio files in the websites "Evidence" area demonstrating the abuse to which MI5 subject me to through their paid agents.

Also in this section is a very interesting article by journalist Bernard Levin, which followed a meeting I had with a friend in 1991, and to my mind describes in some details Levins "artists impression" of the meeting. He talks about a "madman" who "bursts into tears, and swears it is all true. And it is."

Internet Newsgroup (Usenet) archive

From May 1995 until the present day, this matter has been discussed exhaustively on internet newsgroups. The most interesting articles from the first two years of posts are documented here. This area is worth reading since most of the questions which the reader would ask, have been asked at some time or another by someone on usenet. Perhaps the very first article posted sums it all up so succinctly;

Date: Thu May 4 18:27:24 1995
Newsgroups: alt.conspiracy
Subject: BBC's Hidden Shame

Remember the two-way televisions in George Orwell's 1984? The ones which watched you back? Which you could never get rid of, only the sound could be turned down?
Well the country which brought Orwell into the world has made his nightmare follow into the world after him. Since 1990 the British have been waging war against one of their own citizens using surveillance to invade privacy and a campaign of abuse in the transmitted media in their efforts to humiliate their victim.
And the most remarkable thing about it is that what they do is not even illegal - the UK has no laws to protect the privacy of its citizens, nor does it proscribe harassment or abuse except in the case of racial abuse.
A lot of people in England know this to be going on, yet so far they have maintained perfect "omerta"; not a sound, not a squeak has escaped into the English press, and for all the covert harassment absolutely nothing has come out into the public domain.
Have the British gone mad? I think we should be told.

So how much deeper will the persecutors-who-wont-admit-theyre-MI5 sink in their campaign of lies and intimidation? Each time I thought they could sink no lower, they have managed to surprise me. You thought it could never happen here? When the MI5 British Secret Police make their smears against me, it is the corruption of the Establishment, which they are part of, that is demonstrated.

13952

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X-Google-Thread: fc2a5,9ef521e0541bf813,start
X-Google-Thread: fdf97,9ef521e0541bf813,start
X-Google-Thread: fe6d9,9ef521e0541bf813,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07111614255674@4ax.com>
Subject: MI5-Persecution: Comparing the MI5 Persecution with German Final Solution
(16135)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer,uk.misc
From: MI5-Victim@mi5.gov.uk
Date: 16 Dec 2007 14:25:59 GMT
Lines: 211
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 207
Xref: g2news1.google.com alt.conspiracy.antichrist:2849 alt.peeves:2119
rec.radio.amateur.homebrew:14836 alt.fan.nikki-dial:168 hr.org.fer:140434
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MI5 Persecution Update: Friday 16 April, 1999

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BBC newscaster Nicholas Witchell cant stop himself laughing

During 1990-91 there were very many instances of "interactive television" where newscasters and other TV presenters saw on a screen before them what was happening in my home, and reacted, frequently by laughing at me. During this period I unfortunately did not record these programmes. For the last year or two, I have been recording everything I watch, and there has been a drastic decrease in such incidents.

However, on occasion, television presenters do still engage in "interactive watching" and react to what they see. This has been evident with Jon Snow of Channel Four News recently - a particularly interesting case, since it has been established that he cannot be corrupted by money (it is well-documented that MI5 offered him a tax-free salary and he turned them down). I wonder what device MI5 are using to encourage him to do the "interactive watching"?

On Saturday 10 April 1999 at 7pm, Nicholas Witchell on BBC2 News reacted when he saw that I was watching the programme, and I have his reactions stored safely on videotape. I have watched this tape several times and I am entirely confident that my evaluation of his reactions is correct. For several minutes his upper lip quivered in mirth as he attempted to keep a straight face. Then finally his self-control evaporated through the excuse of a weak joke and his face collapsed into a grin.

The strange thing is that I dont know why he was laughing at me, what I had done recently to "deserve" to be laughed at. The MI5 persecutors usually manage to invent some justification as to why people should laugh at and/or abuse me ("hes an X", "it was so funny" etc), so Mr Witchell could have been laughing for any number of reasons. Perhaps he found the views I have been expressing in these articles amusing? I suppose if youre paid enough money and ordered to laugh then even the most innocuous thing becomes funny.

Jon Snow of Channel Four News cant stop himself smirking, either.

On 12 February 1999 I was watching Channel Four News presented by Jon Snow. As usual, I was recording the programme, so that if anything out of the ordinary happened, Id be able to go back and watch it again.

Now, Jon Snow, by his own claim, is uncorruptible. He says he turned down an offer of a substantial tax-free salary from MI5 - they wanted to make him their mouthpiece, and he told them where to get off.

So you will be most surprised to learn that Jon Snow "interactively watched" me that evening, and on many other evenings. Approximately fifteen minutes into the programme, he announced that the US President would be making a live appearance at about 7.30pm; I looked at the clock on the mantelpiece; and Snow saw me looking at the clock, and visibly tried to suppress a smirk.

Uncorruptible, are you, Mister Snow? If not money, then why are you watching me, Mister Snow? Are they forcing you to watch me? Cant you turn the monitor off, Mister Snow?

Keith Hill MP (Labour - Streatham), my elected representative, as ever refuses to help.

Comparing the MI5 Persecution with German "Final Solution"

It might seem offensive to compare the mass murder of millions of civilians in wartime with the peacetime persecution of merely one person. Yet the comparison has been coursing through my mind for several years now, because the brutality of German intent to "sub-humans" is very much comparable to the brutality of British intent to someone they vituperate and term "not up to British standards". The methods may differ, but the persecutors mindset is the same.

The Germans first targeted the mentally disabled, too

During WW2 millions of ethnic Russians, Poles, Jews, mentally ill, gypsies and other minorities were rounded up and murdered in purpose-built camps by the German regime, in the name of "racial superiority". Fifty years on, the British Secret Police, MI5, instituted a campaign of mass hysteria; but in their cowardice, limited their activities to one single victim.

It is instructive to note that the early German "cleansing" effort was directed primarily not at Jews, but at the mentally ill. The Nazis set up the T4 project in the thirties to "cleanse" away 70,000 mentally disabled people, including schizophrenics and epileptics. After WW2 the Jews with their media influence used the reaction from the holocaust to roll back anti-semitism in the Western countries; however, the mentally ill are today still a persecuted group in the modern Western world as they were under the Nazis (the current Jewish home secretary in the UK intends to bring in laws for incarceration without any criminal charge for some mentally ill people - he protects his own minority, but does nothing for the other minorities in todays society), and this continuing bias forms a central cause for the current acts of persecution in the UK.

Widespread knowledge of what is happening to the "un-British" minority

In both the German persecution of the thirties and early forties, and the current British persecution, many, many people are well aware of whats happening. There is widespread complicity through inaction of populace; and in a substantial proportion of the mainstread population, the persecution had/has widespread enthusiastic support; yet in both the German case in the 1940s and the British today, the existence of persecution is a mass secret which must be never admitted out loud. In the recent Lawrence case this "secret bigotry" has been termed "institutionalised racism", and that is a very good word for what the British are doing today The persecutory attitudes and omerta regarding them are so deeply ingrained in the national psyche that they define the national mood

During WW2 many Germans knew minorities were disappearing, and through inaction quietly condoned their government's mass murder of "un-German" minorities and inferior "foreigners"; and in the 1990s, similarly, many English people know what the MI5 British Secret Police have been doing, and not only condone it, but actively take part, because of xenophobia against the "un-British" unit minority that is the target of "British" actions. This attitude by the British persecutors has been made explicit through the words "he's not up to British standards"; the British seem to have found their very own "untermenschen" to victimise.

Why these obsessive "holy wars" happen

This type of aggression occurs when the majority is threatened or humiliated in some way, economically, militarily or culturally. In pre-WW2 Germany the threat was primarily economic and military, following Germany's humiliating defeat in the first world war and the reparations it was forced to pay. In modern Britain, one might guess that the majority English who are behind the persecution feel pressured by the swiftly diminishing status of Britain in the world, and the rapidly increasing coloured colonisation of their country, which in time will see the ethnic English a minority in their own land, and their more antisocial elements, unable to reply to the obvious threat, instead project their aggression onto another, weaker, unit minority

In both cases there is a whiff of "holy war" or irrational obsession with the persecution. Certainly the German behaviour fifty years ago bordered on the not-quite-sane, and the current British behaviour towards their chosen victim is strongly tinged with a leave-taking of reason. And the choices open to the victims are the same, since MI5 will never allow me to escape them, "if he tries to run away we'll find him", just like the commandant of Auschwitz telling the new arrivals, "the only escape is through the chimney".

The Victim Will Destroy Us if We Dont Destroy Him First

The persecutors propaganda is the same. Fifty years ago the Germans said, "if we don't do it to the Jews then the Jews will do it to us"; and MI5's propaganda in the early nineties concentrated on their victim as a "monster" aesome "untermenschen" minority.

"We are decent fellows" say the Brutal Persecutors

During the course of researching this article I read part of the very interesting book, "Hitler - A Study in Tyranny", by Alan Bullock. This volume contains a quote from Himmler on the "Final Solution";

"Most of you know what it means when a hundred corpses are lying side by side, or five hundred or one thousand. To have stuck it out, and at the same time .... to have remained decent fellows, that is what has made us hard. This is a page of glory in our history which has never been written and is never to be written."

In the MI5 persecution, too, there is a thread of deliberate brutality to the sick and vulnerable, while the persecutors maintain that "we are decent fellows". There is almost a conscious schizophrenia in the self-attitudes of the Security Service operatives and those in the public who they employ against me, which reflects the contradiction evident in the German attitude above. On the one hand, they stoop to the lowest and most base behaviour; yet at the same time, the MI5 operatives tell themselves that since they are civilised British people, then surely they must by definition be "decent fellows". Any indecency is made the fault of the victim; "hes making us persecute him, so we need feel no guilt".

Yet the conduct is atypical of the way these peoples see their normal modes of behaviour. Befslaughter was not typical of normal German behaviour up to that point. Similarly, the current MI5 abuse goes against the grain of British self-image as being "reserved" and "decent", since they are using terms of abuse which are common among blacks and other supposedly less-developed races, but not among the English.

Conclusion

The ultimate aim of both persecutions is the humiliation and physical extinction of the persecuted group. The Germans did this in a very direct way; the British Secret Police MI5 are acting indirectly and relying on self-extinction of their target, because in peacetime and in the current somewhat false climate of "political correctness" more direct methods are impossible. If MI5 undertook more direct action the mass "omerta" would be broken.

I have written this article with sincerity to show how a historically recent persecution in another country parallels what is being done in this country today. In both cases, the evil-doers are of their countries establishments, and rely on widespread tacit support to maintain the persecution and omerta around it. While the holocaust was undoubtedly the greater evil, it is important to be aware of the fact that had the Germans not been defeated fifty years ago, their plans would have gone through to total completion. In Britain today no force threatens the "permanent government" of which the Security Service forms a part; and it looks very unlikely that the wrongs perpetrated by the MI5 secret police will ever be revealed to public view, and the British secret state brought to justice for its evil actions.

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Message-Id: <m07111614550434@4ax.com>
Subject: MI5-Persecution: MI5 Waste Taxpayer Millions on Pointless Hate-Campaign (18318)
Newsgroups: alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer
Followup-To: alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
From: MI5-Victim@mi5.gov.uk
Date: 16 Dec 2007 14:55:07 GMT
Lines: 251
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 247
Xref: g2news1.google.com alt.conspiracy.antichrist:2850 alt.peeves:2120 rec.radio.amateur.homebrew:14837 alt.fan.nikki-dial:169 hr.org.fer:140440

MI5 Persecution Update: Friday 30 April, 1999

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Somewhere between 0 and 100%

The last few days there have been no clear recordable instances of abuse. However, while travelling on the Underground, while walking around near my home and going to friends homes, I am constantly troubled by thoughts that those people over there might be about to get at me; that the couple sitting in the opposite seats laughing are in fact laughing at me; et cetera, et cetera.

A comment by a scientist to the BSE inquiry sticks in my mind. He described the possible scale of the epidemic as "between 0% and 100%". It might not be happening, it might not happen at all, to any discernable degree.... or it might be total. Without clear recording, which seems to have become impossible the last couple of weeks, there is no way of knowing whether the harassment really is continuing, whether we have entered a temporary hiatus, or whether perhaps it has perhaps stopped for now.

But for the time being I think there arent any reasons to dicontinue these faxes. I only re-started them six weeks ago in response to a resumption of MI5 harassment; and I think I will need to be more convinced of absence of persecution before I discontinue my complaints.

The Newscasters are still watching

In the last few weeks there have been at least a couple of fairly overt instances of "interactive watching" by newscasters. I reported this in a previous "MI5 Persecution Update".

These instances are really very rare compared to 1990-91, when there were many dozens of such occurrences. Undoubtedly the reduction is due to my practice of videotaping everything I see. Recently I had the opportunity of showing this years "happenings" (Jon Snow/Nicholas Witchell) to my psychiatrist, and he agreed that in both cases the newscasters were expressing merriment without visible cause, and that objectively it might be possible for my claims to be true - although of course other people reported similar thoughts to him, and this thinking is usually a symptom of illness.

Read About the MI5 Persecution on the World Wide Web

The March 1998 issue (number 42) of .net Magazine reviews the website describing it as an "excellent site". Since August 11, 1996 over 50,000 people have browsed this website.

You are encouraged to read the web pages which include

a FAQ (frequently asked questions) section outlining the nature of the persecutors, their methods of harassment through the media, people at work and among the general public

an evidence section, which carries audio and video clips of media and workplace harassment, rated according to how directly I think they refer to me

objective descriptions of the state security agencies involved

scanned texts of the complaints I have made to media and state security agencies involved

posts which have been made to netnews over the last four years on this topic

Keith Hill MP (Labour - Streatham), my elected representative, as ever refuses to help.

MI5 Waste Taxpayer Millions on Pointless Hate-Campaign

Recently I was talking to an independent observer about the nature and purpose of the perceived campaign of persecution against me. The person I spoke to, a highly intelligent man, said he was struck by the utter pointlessness of the perceived campaign against me. He also said that, if my theories were in fact true, many people would have to be involved, in the surveillance itself, and in the technical side of the delivery of information from my home to TV studios for example, if the "interactive watching" were happening as described. He voiced these thoughts without any prompting from me; but both I and other observers had arrived at pretty much the same conclusions, some years ago.

I saw a team of four men at Toronto Airport in 1993

To carry out the surveillance alone, full-time, would employ four or five men, or their equivalent in terms of man-hours. Each man would "work" an eight-hour shift, so you would need at least three men doing the surveillance, plus a connecting link / manager. An indicator that this estimate is correct arrived in 1993, when I was accosted by one of a group of four men at Toronto Airport; he said, laughing, "if he tries to run away well find him". Plainly these were the men who had been involved in the intrusive surveillance of me for the preceding three years.

On other occasions, I have seen the same man on two or three occasions. On one such occasion, at Ottawas Civic Hospital in November 1996; he gave his name to the doctor as "Alan Holdsworth" or some such; my hearing is not very good sometimes and I am not sure of the surname, although I am sure "Alan" was his first name. I saw exactly the same man again in Ottawa, at the airport, in July 1998. Obviously, other people must be "working" with this person; he would not be the sole agent employed in this case.

Usenet readers views on the Cost to MI5 of Running the Campaign

Here's what a couple of other people on internet newsgroups / Usenet (uk.misc) had to say regarding the cost of running such an operation...

PO: >Have some sense, grow up and smell reality. What you are talking about
PO: >would take loads of planning, tens of thousands of pounds and lots of
PO: >people involved in the planning, execution and maintenance of it. You
PO: >must have a very high opinion of yourself to think you are worth it.

and......

PM: >But why? And why you? Do you realize how much it would cost to keep
PM: >one person under continuous surveillance for five years? Think about
PM: >all the man/hours. Say they _just_ allocated a two man team and a
PM: >supervisor. OK., Supervisor's salary, say, #30,000 a year. Two men,
PM: >#20,000 a year each. But they'd need to work in shifts -- so it would
PM: >be six men at #20,000 (which with on-costs would work out at more
like
PM: >#30,000 to the employer.)
PM: >
PM: >So, we're talking #30,000 x 6. #180,000. plus say, #40,000 for the
PM: >supervisor. #220,000. Then you've got the hardware involved. And
PM: >any transcription that needs doing. You don't think the 'Big Boss'
PM: >would listen to hours and hours of tapes, do you.
PM: >
PM: >So, all in all, you couldn't actually do the job for much less than
PM: >a quarter million a year. Over five years. What are you doing that makes
PM: >it worth the while of the state to spend over one and a quarter million
PM: >on you?

Those are pretty much the sort of calculations that went through my head once I stopped to consider what it must be costing them to run this operation. At the very least, a quarter million a year - and probably much more, given the intrusive and human-resource-intensive methods employed. Times nine years. Equals well over two million pounds - and probably much, much more.

Its wasteful for someone with my skills to be unemployed

The wastefulness of the MI5 campaign against me is not just that of futile expenditure on their side. It is also extremely wasteful for someone with my talents to be unemployed and on a disability pension. I am highly qualified in numerate disciplines, yet am unable to work, specifically because of the MI5 hate-campaign against me. It is a terrible waste of resources for a supposedly efficient economy like that of the UK to be squandering the talents of a skilled and capable worker.

I made every effort to remain in employment for as long as I could, but ultimately I was defeated by MI5s employment of massive resources specifically targeted on my workplaces with the sole aim of seeing me evicted from those workplaces. You might expect this sort of behaviour from the Stasi or some other secret police force in a communist country where labour is cheap, and the governments aim on seeing its citizens confined; but for a supposedly free and efficient economy like Britains, the wastefulness resulting both directly and indirectly from the Security Services activities is simply criminal, and should never be allowed.

The international dimension means the costs are multiplied many times overoer had any sense, then they have surely taken leave of them over the last nine years.

Four years of persecution in Canada

The persecution re-started within less than five minutes of my arrival in Canada, as documented above, and in the "frequently asked questions" article on the website. The words, "if he tries to run away well find him" spoken by one of the harassers at Toronto Airport are now imprinted on my mind.

A year later I emigrated to Canada, intending to find a job and settle there, hoping that MI5s interest in me might dim with time. I did manage to find work there, but my hopes of avoiding Security Service interest were ground into dust. As detailed above, I saw the same man in November 1996 and July 1998, both times in Ottawa. Apart from these encounters, there were numerous incidents between 1994 and 1998 of harassment, of an identical nature and in most cases using identical words to what had occurred in the UK. It became quite clear to me that the permanent surveillance and harassment operation which MI5 had subjected me to in England was being continued.

For a team of four or five men to be employed overseas must cost a lot more than if they operate in their home country. And for MI5 to continue the operation for a period of over four years, continuously, must cost many hundreds of thousands of pounds. This confirms my belief that the state is funding the campaign against mehat the Security Service receives current annual funding of #160M. Divided by 1850 staff, works out at #86,000. But the unit annual cost of each "watcher" must be much higher than this, especially given the frequently mobile and overseas nature of their actions of the last few years. A very conservative figure might be a little over #100,000 pa for each of a team of five people, or half a million pounds per year. For nine years, so far. So the most conservative estimate of the surveillance element alone is perhaps four or five million pounds since 1990.

This guesstimate is of course theoretical - I am not privy to inside details of how MI5 split their funding. But to take some other examples, the cost of a US counter-surveillance specialist per day is USD 5,000. Even if the agents permanently assigned to me are not of this calibre - even if they employ specialists when difficult work planting bugs etc is encountered - their salary and support costs must still be very high. The individual agents are doing well for themselves as they are well-paid to exercise psychopathic instincts which in any sane society would see them in prison; but the taxpayers who must fund this terribly wasteful exercise are being "done" out of hundreds of thousands of pounds each year.

It must be emphasised that the above estimates are highly conservative. Besides the surveillance operation, it must carry a high cost in man-hours to propagate covert slanders through the population; to setup and maintain the "interactive watching" links to TV and radio stations, which these organisations continue desparately to "lie and deny"; and to induce antipathy in co-workers which would not otherwise exist.

Why they are wasting Millions of Pounds on a "Nobody from South London"

As remarked in the prologue to this article, it is really most extraordinary that the Security Service spends a chunk of its budget, every year for nine years so far, on a meaningless campaign against a "nobody from South London". That they are spending such a large amount of money has been confirmed to me on several occasions, usually by oblique references to "its costing this country millions". The supposed "logic" behind the persecution is that MI5 wish to avoid their harassment of me, and the involvement of the UK media, to be made public; yet as the reader will appreciate that is a circular argument, "theyre doing it because they want to keep it secret and avoid humiliation for themselves and their country" begs the question, "why did they start doing it in the first place?", to which in truth I myself do not know the answer.

Plainly MI5 with its rich budget can afford half a million pounds a year to waste on a "nobody from South London". Some time ago I was talking to a British surveillance professional on Compuserve who told me "this work costs a lot of money and is usally because the person I am following has done something (usually criminal) to warrant all this money and time being spent." Yet in this particular case it is plainly not the "victims fault" that the harassment is taking place. The hate-campaign against me is completely the creation of the obsessive psychologies of the MI5 agents who have made themselves my persecutors; it is obviously a "personal" campaign for them, and for years they misuse taxpayer funding to feed their insane, unnatural and fixated fantasies.

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X-Google-Thread: fdf97,58c225bbb0d8209f,start
X-Google-Thread: fe6d9,58c225bbb0d8209f,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07111615231589@4ax.com>
Subject: MI5-Persecution: Four Years of MI5 Persecution Posts on Internet
Newsgroups (20501)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer,uk.misc
From: MI5-Victim@mi5.gov.uk
Date: 16 Dec 2007 15:23:18 GMT
Lines: 283
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 279
Xref: g2news1.google.com alt.conspiracy.antichrist:2851 alt.peeves:2121
rec.radio.amateur.homebrew:14838 alt.fan.nikki-dial:170 hr.org.fer:140445
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Four Years of "MI5 Persecution" Posts on Internet Newsgroups

For approximately the first three years of the MI5 persecution, from June 1990 until late 1992, I kept as quiet as possible, in the hope that by not reacting, MI5s interest in me would decrease and they would simply go away of their own accord. This is the sort of behaviour some people employ against bullies; if the bullies arent getting a reaction, then they might simply go away and victimize someone else.

Unfortunately, this tactic didnt work. The quieter I became, the more shrill and hysterical the noise from the Security Service operatives. For about two years I didnt watch TV news at all. Yet this only heightened their obsessed fixation; they continued to follow me wherever I went, they continued to induce harassment at work by managers and fellow workers, and they continued to encourage me to commit suicide. They seemed to regard my refusal to react as a crime which they would have to "put right" by ever more extreme forms of abuse.

Finally, in 1995, I changed tactics radically. Since late 1994 I had had accounts with internet providers in Ontario, Canada. I discovered the cornucopia of internet newsgroups, on every topic from consumer electronics, to politics and legal topics, and I discovered online services such as Compuserve and AOL. In May 1995, I made the first posting to the conspiracy newsgroup, on the subject of "BBCs Hidden Shame".

BBC's Hidden Shame

The internet newsgroup discussion, which has now reached its fourth anniversary, started with an article in alt.conspiracy, which I reproduce here.

Date: Thu May 4 18:27:24 1995
Newsgroups: alt.conspiracy
Subject: BBC's Hidden Shame

Remember the two-way televisions in George Orwell's 1984? The ones which watched you back? Which you could never get rid of, only the sound could be turned down?

Well the country which brought Orwell into the world has made his nightmare follow into the world after him. Since 1990 the British have been waging war against one of their own citizens using surveillance to invade privacy and a campaign of abuse in the transmitted media in their efforts to humiliate their "victim".

And the most remarkable thing about it is that what they do is not even illegal - the UK has no laws to protect the privacy of its citizens, nor does it proscribe harassment or abuse except in the case of racial abuse.

A lot of people in England know this to be going on, yet so far they have maintained perfect "omerta"; not a sound, not a squeak has escaped into the English press, and for all the covert harassment absolutely nothing has come out into the public domain.

Have the British gone mad? I think we should be told

At this point, I did not name MI5 as my persecutors. I was still unsure that they were the ones responsible for the "psychological terrorism". In followup posts however I did name them; and the persecutors have never denied the claim; so I think my guess is valid. (The Security Service Tribunal in 1997 have said "no determination in your favour was made", but it is a well established fact that MI5 lies routinely to the Tribunal which has never found in favour of a plaintiff, so no conclusions can be drawn from this.)

This first post was made to alt.conspiracy, but further posts were made to the UK-local newsgroups, in particular uk.misc but also uk.legal and uk.politics (which is now called uk.politics.misc). Some time ago I tried to take the battle to the Compuserve forums, UKPOLITICS (which is now called UKCURRENT - current affairs), but my articles were censored by the forum operators. Such censorship is impossible on the internet newsgroups.

Police Refuse to Act

I have complained several times to the Metropolitan Police, who have each time refused to help.

From: Green <Green@guidion.demon.co.uk>
Newsgroups: uk.misc,uk.politics,alt.politics.british,soc.culture.british
Subject: Re: MI5 Persecution: Why Aren't the British Police Doing Their Job?
Reply-To: Green@guidion.demon.co.uk
Date: Sun Apr 7 21:13:30 1996

In article <DpIE0r.736.0.bloor@torfree.net>
bu765@torfree.net "Mike Corley" writes:

>Last Easter (1995) I went into the local police station in London and spoke to
>an officer about the harassment against me. But I couldn't provide tangible
>evidence; what people said, in many cases years ago, is beyond proof, and
>without something to support my statements I cannot expect a police officer to
>take the complaint seriously.

This in itself dos not suggest that the police have it in for you. The old bill operates on extremely tight spending limits forced on them by that pillock Michael Howard, and without evidence, they often have higher priorities than chasing something that cannot go to court.

I doubt that the police are actually being leant on, but they probably realise that if they looked into this, they would be leant on hard. The met always stays away from anything that looks like it has Defence, Security or secret service interest already, because they realise that they are below these government agencies in the general pecking order.

If I walked into my local nick and complained that MI5 were snooping on me, they would show me the door without even looking at my evidence, because that bored desk seargant with only five years to go before he retires doesn't want to start fucking about with somebody who has incurred the wrath of Stella Rimington. He would rather deal with the lost dogs and driving licence producers, eat his cheese and pickle sandwiches and piss off home at the end of his shift than have some high ranking spook having a go at his boss and getting him a bollocking.

In short, you have earned much sympathy but little surprise. Just remember that saying about the enemy of your enemies.

Most recently, I wrote in March 1999 to Charing Cross Police Station CID. They did not acknowledge or reply to my letter. When I phoned them up, the detective Id written to treated me to a sadly not unusual display of police bigotry, with an uneducated rant about "your paranoid rubbish".

It would be nice to think that such uneducated bigotry is something other than wholly typical of police behaviour, but unfortunately that is an illusion that is rapidly dispelled.

Uncorruptible Jon Snow of Channel Four News

From previous articles the reader will know what I think Jon Snow has recently been watching me while he reads Channel Four News in the evening. Recently I digitized a few moments of one such broadcast, where his face twists into a smile, without there being anything in the news broadcast to cause merriment. Here is a usenet post from some time ago on MI5s "bought and paid for" tools in the so-called "free" press.

Peter Harding (harding@ermine.ox.ac.uk) wrote:
: I was at speakers' corner on Sunday. There was one chap who was bellowing
: about something or other, I don't know what, but one thing he said to
: someone caught my ear:

: "BBC, MI5, same thing."

Can't disagree with that sentiment.

Wasn't it documented that MI5 sometimes "bought" journalists and broadcasters? I remember reading a report by some jouralist who had been offered an extra tax-free income by MI5 to become their covert mouthpiece, and had refused.

....

> : >mouthpiece, and had refused.
> :
> : It was Jon Snow of Channel 4.
>
> Was it reported in any of the papers?

It has been reported several times. The most recent was in Private Eye, a few months back. As I recall they also wanted information from him; journalists would be a natural choice for members of the Security Service and the Secret Intelligence Service for information sources.

> It might be interesting to see what he had to say regarding their

> attempt to recruit him.

He was most concerned that many others would have accepted such an offer. However, we can probably make an educated guess as to some of those who accepted: Nigel West (Rupert Allason, MP) and Chapman Pincher would come near to the top of the list.

--
\/ David Boothroyd. Socialist and election analyst. Omne ignotum pro magnifico.
British Elections and Politics at
http://www.qmw.ac.uk/~laws/election/home.html
I wish I was in North Dakota. Next General Election must be before 22nd May '97
The House of Commons now : C 324, Lab 272, L Dem 25, UU 9, PC 4, SDLP 4, SNP 4,
UDUP 3, Ind 1, Ind UU 1, Spkrs 4. Government majority = 1. Telephone Tate 6125.

Corrupt Security Service agents steal millions from taxpayers

Money is of course a factor in the grand equation which is the MI5 persecution. It costs money for the Security Service to "buy" people in the media etc. But that is only a small part of their expenditure of taxpayers resources. Most of the expenditure is directly on the salaries if the agents involved; and in this post I put forward the theory that MI5 are trying to draw out their involvement for as long as possible, very cynically, to maximise their income and line their own pockets.

At each stage they have tried to pretend that I am something out of the ordinary. Either I was very stupid ("he's an idiot") or very clever ("he's like a genius"). Either I was a threat to Western civilization (Levin once referred to me as the next Hitler) or I was completely defenceless ("a soft toy").

Now, it should be obvious to any person with common-sense that I am not out of the ordinary in any way. I have an IQ which is average for the Web, I am racially white European, and there are plenty of other people with schizophrenia or epilepsy out there who haven't been targeted for MI5 attention, so why me?

I think the answer is that the MI5 agents who harass me have cynically exploited the situation by painting me as extraordinary in order to assure themselves of well-paid employment funded by the ordinary British taxpayer. To put it bluntly, they are stealing millions of pounds from the taxpayer to feed their own pockets.

This assertion is supported by the observation that it's the same agents who are doing the harassment. Six months ago in a local hospital I was harassed by someone whose face I had seen (he had stared straight at me aggressively, at the time I just thought it was some nutter but it turns out he was one of "them") aboard a KLM flight a couple of years ago. It's presumably been the same people most of the time. I've seen the way contractors act when they don't want their positions terminated. Would these agents really want to lose their well-paid employment harassing me? Presumably they are promising their bosses a "breakthrough" (ie my demise) real-soon-now and have been for the last seven years, while all the while these MI5 agents skim millions off the taxpayer.

I wouldn't mind a job like that. Perhaps if I persecute myself a little bit, like standing in front of a mirror and shouting mindless obscenities, do you reckon I'd get a slice of the caky Service Tribunal. This year Nick Brooks, current Tribunal Secretary, confirmed to me that he could not think of a single case where the Tribunal had found in favour of a complainant. Here is my usenet post from two years ago.

Subject: MI5: "It wasn't us"
Newsgroups: uk.misc,uk.legal
Organization: Toronto Free-Net

"The Security Service Tribunal have now investigated your complaint and have asked me to inform you that no determination in your favour has been made on your complaint."

Signed ER Wilson, Tribunal Secretary

Well that's a relief then. All that spamming for nothing eh. Gaw blimey, if they say they're not doing it then it can't be them, can it?

In a recent letter to Mr Brooks I expressed the opinion that the Tribunal were unable to fulfil their responsibilities in the face of MI5 falsehoods. Nevertheless, I do intend to make another complaint to the Tribunal in the near future, despite the Tribunal appearing to be a toothless watchdog.

Discrimination against a Unit Minority

MI5 have been very clear in their instructions as to what I should do. They have openly shouted at me the word "suicide", and also from the other abuse it is clear that they want my existence terminated.

This point is covered in more detail in a previous article. The following post describes the xenophobic nature of MI5s campaign against me. They have refined their bigotry down to a unit minority, yet they make use of the discrimination against the mentally ill which is a feature of current British society.

Subject: Re: MI5 says "Kill Yourself"
Newsgroups: uk.misc,uk.legal,uk.politics.misc,uk.media
References: <zlsiida.4248.3258FE24@fs1.mcc.ac.uk>

<53eeev$cmg@axalotl.demon.co.uk>
Organization: Toronto Free-Net
Distribution:

iain@hotch.demon.co.uk (Iain L M Hotchkies) wrote:
>Indeed. If you've ever had a 'conversation' with someone suffering
>from florid schizophrenia, you'll know how difficult it can be to
>'argue' with them.

I don't have florid symptoms. But I'm in a difficult situation, because those people who don't know, aren't going to believe, and those who do, they just go along with the crowd. It's never a good idea to go against the grain, and the grain here is defined by interests in the establishment and the media. Even people who could say out loud what was happening won't, because then there's a risk that they'll be seen as traitors and ostracised.

Usually this type of 'hidden abuse' is racial and targetted at a racial minority within a country. You keep the minorities out of the good jobs, but you don't admit discrimination exists. It happens everywhere, not just in Britain. The persecution that is going on now is in reality a refined form of racism. Instead of "nigger" it's "nutter", and abusing the mentally ill is still socially acceptable today. In 50 years it might not be, but today there isn't any social or legal sanction against it.

So really they've refined racial harassment down to a minority of one. The words may be different, but the methods are the same.

20501

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>http://www.NewsDemon.com<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From -6271695049164735134
X-Google-Thread: fa1dc,22c0fb3dcf936588,start
X-Google-Thread: f79f6,22c0fb3dcf936588,start
X-Google-Thread: fc2a5,22c0fb3dcf936588,start
X-Google-Thread: fdf97,22c0fb3dcf936588,start
X-Google-Thread: fe6d9,22c0fb3dcf936588,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07111615523449@4ax.com>
Subject: MI5-Persecution: BBC Newscasters Lie & Deny Theyre Watching Me (22684)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer
Followup-To:

alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
From: MI5-Victim@mi5.gov.uk
Date: 16 Dec 2007 15:52:37 GMT
Lines: 306
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 302
Xref: g2news1.google.com alt.conspiracy.antichrist:2852 alt.peeves:2122 rec.radio.amateur.homebrew:14839 alt.fan.nikki-dial:171 hr.org.fer:140455

MI5 Persecution: BBC Newscasters Lie & Deny They're Watching Me

Central to the persecution campaign waged against me for some nine years now by the Security Service is their use of the media, and in particular the broadcast media, to make clear to me that I am under surveillance and being watched within my own home, even by BBC newscasters while they read the news. This is really an act of arrogance; MI5 and their tools in the television and radio are so sure that they can never be caught, that they have many times made explicity clear on broadcast programmes that they are as capable of seeing me as I am of seeing the broadcast pictures. Even when they have known I am taping the programmes they still carry on this practice; for examples of TVand radio presenters caught "in action", see the Evidence area of my website.

If you wish to reply to this article......
then please include your name and fax number! I provide the means for recipients to send me their thoughts on the topics discussed, but ask that you provide me with your fax number or email address if you require a response. Also would you please send not more than one or two pages, if by fax. Thank-you!

It started with a Newscaster, and it continues with Newscasters today

The very first incident in the story started with a reaction by an ITN newscaster, Sue Carpenter, in June of 1990, almost nine years ago now. She reacted to what she saw in my living room at home as she read the news. My mother had brought an apple for me into the room, whereupon the newsreader smirked and giggled, apparently finding this funny. I couldn't believe what I was seeing. I carried on watching news and other television programmes to see if presenters would show signs of "interactive watching"; to my surprise, this happened again and again. Unfortunately, I did not have my wits sufficiently about me to videotape these programmes, and it is now almost impossible to obtain recordings dating back to 1990.

However, I have been busy recording everything Ive watched the last couple of years, and the taping has yielded some nuggets, which you will find if you point your Web browser at the "evidence" area of my website, whose URL address is given above. Strangely it is not particularly the BBC who are "after me" at the moment (with the exception of occasional fire from Nicholas Witchell), but that supposed paragon of virtue and decency Jon

Snow of Channel Four TV News (he actually works for ITN), who once claimed hed turned down MI5s offer of a tax-free salary. I will cover Snows recent actions in a future article.

BBCs Hidden Shame

The first ever Usenet post (internet newsgroup article) on the subject of the MI5 bugging / BBC watching occurred, as stated in a previous article, in early May 1995. It is reproduced here;

Date: Thu May 4 18:27:24 1995
Newsgroups: alt.conspiracy
Subject: BBC's Hidden Shame

Remember the two-way televisions in George Orwell's 1984? The ones which watched you back? Which you could never get rid of, only the sound could be turned down?

Well the country which brought Orwell into the world has made his nightmare follow into the world after him. Since 1990 the British have been waging war against one of their own citizens using surveillance to invade privacy and a campaign of abuse in the transmitted media in their efforts to humiliate their "victim".

I suppose "BBCs Hidden Shame" is more of a wish than a fact. It may be hidden, but the BBC and other media and security organisations seem to have no shame whatever in their anti-social, not to say criminal, actions. Nor do the general public, who seem quite happy to parrot the vilest obscenities without much hesitation or apparently thought.

Martyn Lewis, Nicholas Witchell and the rest

Most of the harassment occurred in 1990-92, when I wasnt making any recordings, and the BBC wont release copies of current affairs programmes from that period.... so although I can remember there were many incidents in that time, even many specifics, I cant dig up the actual programmes to flesh out the bones.

This year, there has been at least one incident with Nicholas Witchell as newsreader, which I have successfully recorded and digitized, i.e. converted into a computer Quicktime movie file. This has not yet found its way onto my website (Im a busy man, dontcha know) but you can be sure I will let the readership of these articles know when that clip makes it onto the web. The Witchell clip was recorded on Saturday 10 April 1999 at 7pm, and shows Witchell trying to restrain his features from collapsing into a smirk. First his upper lip quivers for several minutes, then with the non-excuse of a non-joke his entire face twists into a grin. It looks as if he finds me so funny, that he allows himself to submerge any pretence at professionalism in a sea of MI5-inspired sarcasm and harassment.

The two BBC newscasters whose reactions to me I can remember most vividly over the years are Martyn Lewis and Nicholas Witchell. I can remember thinking years ago that Michael Buerk was also seeing me at home; and if the other two are watching then there would be no reason why he wouldnt be doing the same; but in all honesty I cannot remember a single clear instance of his reacting through facial or verbal expression to me.

I can remember several instances of Martyn Lewis reacting to what he saw of me, however. In early 1992 I was watching the BBC news with Lewis on a small black-and-white portable TV at my then home in Oxford. I threw a term of abuse at Lewis; he flinched, then gave a grin and made a comment from which I understood that he had been on my side, but might have changed his mind as a result of what Id just said to him.

And in spring 1991 I remember Martyn Lewis clearly reacting to what he saw of me at my then accommodation in Woking, Surrey, by continuing to stare at some fixed point near the camera after the news had finished - presumably this is where the monitor interactively showing pictures of my room was located.

Why would BBC and other Newscasters Watch and Harass Me, Watching Them?

This is a very difficult question, and I dont actually know the answer. It is a matter of record that the Secret Services are very much part of the Establishment. The recent exposure of the "MI6 Agent List" on the internet, and its coverage in the newspapers, reveals how much MI5 and MI6 are recruited from the ranks of the Establishment. Obviously the relationship is bi-directional; the Establishment influences MI5/MI6, but the secret services (well, perhaps not so secret now we know who works for MI6!!!) also influence the machinery of power and information dissemination i.e. media in this country. So they must have a lot of covert leverage with the BBC and ITN.

Some of this leverage is obviously through bribery. It is a matter of record that MI5 tried some years ago to "buy" Jon Snow of Channel Four TV. He turned them down - obviously they must have approached other media people as well, and from the lack of other reports of people turning them down, it may be presumed that some other journalists will have accepted the sugared carrots put before them. Ironically, Jon Snow has been taking part in the recent "watching" actions against me - but why he has allowed himself to be used by the secret services is something which I do not know.

Perhaps the Security Service uses blackmail to twist arms of journalists into co-operating with them? I have always thought there was something slightly odd about Martyn Lewiss demeanour. At the time of the Ron Davies "rough trade" scandal it was reported that MI5 had known all about Davies predilections and the sham of his pretence to be a happily married man. Perhaps MI5 have been able to dig something up from Martyn Lewiss private life to blackmail him into acting on their behalf? And if there wasnt anything before the "newscaster watching" started then there most certainly is something now.... once theyve started watching, the newscasters will surely wish their activities to remain covered-up, and co-operate with the security service.

"Newscaster Watching" Deliberately Constructed to Mimic Schizophrenia

Presumably this is the first case in history of television journalists actually taking part in acts of real-time, live spying and reacting against one of their viewers. What you have to understand, though, is that I was quite mentally healthy in June 1990, certainly relative to November 1992, when after two and a half years of harassment I was finally admitted to hospital as an out-patient. MI5 decided from the outset that they would make me mad; they constructed the media harassment to resemble what would be reported by a person with mental illness; and then they carried on years of abuse to inflict on me the condition which they wished to use as an excuse to cover up their abuses.

I sold my portable TV in autumn 1990 and stopped watching television regularly. I realise now that this may have been a mistake. What I should have done was to watch TV and listen to the radio, but tape-record everything and make a note of what each excerpt meant to me. I would then be in a much stronger position as regards to evidence that I am now. That is what I am trying to do now, but unsurprisingly the TV/radio presenters have stopped getting at me, now they know they are being recorded.

When I started publicising my case on internet newsgroups in 1995, I was met with the disbelief one might expect to be accorded to a mentally ill person who talks about "newscaster watching" and media persecution. Some newsgroup participants thought I had started a "troll", an invention made to obtain a reaction; one bright spark even suggested a group of psychology students were behind the articles. But most people thought the articles were symptomatic of derangement - and that is exactly what MI5 want people to think. MI5 chose me as a target because I was mildly mentally ill at the outset in 1990, although I stress my illness then was very mild in comparison with November 1992, and because they knew that enough abuse would (a) make me much more seriously ill, and (b) once I was more ill, they would "get away" with a harassment deliberately constructed to look like the symptoms of paranoid schizophrenia.

Martyn Lewis Denies & Lies, But Wont in Writing

In February 1997 I wrote to BBC Viewer & Listener Correspondence and asked them to investigate the claim that their newscasters had engaged in "real-time spying" on me. They replied that they had asked Martyn Lewis and Michael Buerk whether they had engaged in such practices, and that they had both made verbal denials to VLC, but were refusing to put their denials in writing.

To me it looks as if Lewis and Buerk are happy to lie verbally but not in writing, because written falsehoods would place them unambiguously in the wrong, whereas they can try to talk their way out of verbal lies if they are ever caught, or perhaps even deny the verbal lies completely? If they lie without shame, then why would they have any shame about future lies about lying?

BBC-VLC also said that the BBC "would never engage in any form of surveillance activity" such as that described. Clearly Martyn Lewis and the rest have lied to their own organisations personnel about their criminal actions. So much for the "objective", "truthful" BBC, a nest of shabby liars.

Summons against the BBC, for Nuisance caused by Newscaster Spying

In March 1997 I issued a civil summons against the BBC, seeking injunction against further "newscaster spying", and token damages for what the BBC had done to me until that date. The purpose of the summons was to try to "smoke out" the BBC, since obviously I did not have good evidence which would be necessary for either a civil or criminal case to be made against them. My summons was worded as follows;

1. The plaintiff is and was at all material times residing at [home address]. At some time prior to or during June 1990, persons of unknown identity entered Plaintiff's premises and installed concealed television equipment in said premises.

2. A campaign of harassment was launched against the Plaintiff by the persons of unknown identity, which in part took the form of instigating harassment by BBC TV newscasters (including specifically Michael Buerk and Martyn Lewis) as they read news bulletins, by making direct and personal comments to Plaintiff.

3. The campaigns purpose was to subject Plaintiff to great mental stress and induce mental breakdown. As a result of it Plaintiff did indeed suffer from severe mental strain in 1990-97.

4. In order to avoid the mental strain being caused to him the Plaintiff has been compelled to stop watching BBC TV news. Defendant therefore committed the tort of private nuisance, since normal use of home was interfered with.

5. Plaintiff claims a permanent injunction prohibiting further nuisance, and damages for nuisance suffered limited to 5,000.

Naturally, my attempt to smoke-out the BBC and its lying newscasters failed. The BBCs litigation department sought to have my summons struck out; and they succeeded in doing so, on the grounds of my action "disclosing no reasonable cause of action". I was also prevented from issuing further civil claims against the BBC without leave of the Court. Apparently litigants-in-person frequently / usually have their claims struck out with this wording, regardless of the merit of their claims.

BBC Suppresses my Claims of "Watching by Newscasters"

BBCs staff magazine Ariel ran my advert "BBC Newsreaders Spying on my home" for one issue in the Personal category on 8/July/1997 before it was spotted and axed by editor Robin Reynolds; please see webpage; http://www.pair.com/spook/evidence/plaint/ariel.htm
Clearly the BBC will not allow claims of its wrongdoing to be made public in the media channels it controls.

On several occasions people said to my face that harassment from the TV was happening. On the first day I worked in Oxford, I spent the evening in the local pub the Rose and Crown with the company's technical director Ian, and Phil, another employee. Ian made a few references to me and said to Phil, as if in an aside, "Is he the bloke who's been on TV?" to which Phil replied, "Yes, I think so".

The reader might think that mere "watching" by newscasters etc might be a relatively benign happening. But it is not; it is part of MI5s framework of harassment and lies. On many occasions the reactions of the BBCs newscasters to me has been in the nature of sarcasm, implicit contempt and abuse. This is visible in Witchells news programme mentioned above, where he engages in abuse by laughing at me during his newsreading. It was particularly visible in the early period of 1990-92, and as late as Autumn 1993, when during a Newsnight broadcast Jeremy Paxman interviewed a football person about soccer hooliganism, and the interviewee gave vent to an unsubtle rant about "theyre idiots, theyre just idiots, keep up the surveillance". Paxman started grinning, showing he understood and was taking part in the abuse being perpetrated on that programme.

Conclusion

The MI5 Persecution started with harassment by television newscasters, and today harassment by TV and radio presenters still forms a key part of MI5s activities against me. When this business started in June 1990 I was in relatively good health of mind. Years of persecution by the secret police and their mouthpieces in the state-run BBC and other media eroded my health until MI5 achieved their aim of seeing me rendered mentally ill in November 1992. The diagnosis which was forced on me unfortunately and ironically meant that my reports of the harassment are disregarded, because the mentally ill are second-class citizens in todays Britain.

Yet TV and radio harassment continues, albeit in a reduced form, despite my taping all the programmes I watch, resulting in my being able to obtain and demonstrate objectively on the website instances of media presenters attacking me. Unfortunately these recorded instances are quite tenuous; I might understand them, the presenters understand what it is theyre doing, but despite many thousands of people knowing the truth of the "newscaster watching", the omerta continues and they continue to refuse to admit the truth of the matter. It is a terrible indictment of British society that there is not even one decent person willing to speak out. I look forward to the day when the truth does finally emerge, and the mass corruption which has allowed the MI5 persecution to take place is finally purged and the Establishment criminals caught and appropriately punished.

22684

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

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From -8868535786217805176
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rec.radio.amateur.homebrew:14840 alt.fan.nikki-dial:172 hr.org.fer:140464
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MI5 Persecution: Molestation during Travel

MI5s persecution of me varies in intensity. Since 1990 it has been steady for perhaps 80% of the time; there was a notable quiet period in 1993, and another quiet period in Jan-Feb 1995, as well as a hiatus in the first two months of 1999. It puzzles me that they cease and restart, seemingly without any logic or reason. But one aspect of MI5s activities against me which is relatively predictable is this weeks articles topic, which is Molestation during Travel. Almost every time I cross the Atlantic, go to the Continent or even try to enjoy a holiday in this country, you can bet that MI5 will be there doing their utmost to wreck it all.

This aspect of the harassment is particularly relevant as I will be travelling to Europe again in a months time, with naturally the Minidisc recorder in tow; so it will be interesting to see if I can record the abuse which will almost certainly take place, either on the Tube going to the airport, at the airport, on the flight, in the terminal building - MI5 have previously instituted instances of abuse at each of these locations, so well see how much taxpayers money they waste this time, and whether it will prove possible to capture their abuse on minidisc.

Read about the MI5 Persecution on the Web

June 1992 in Polands mountain resort of Zakopane

The persecution started in June 1990, and for the first two years I stayed in the UK apart from a couple of brief day trips to Calais. By the summer of 1992 Id had enough of being cooped up in England with abusive fellow employees egged on by an abusive secret police service, and decided to spend 10 days in southern Poland, on what was intended to be a holiday at the mountain resort town of Zakopane.

Unfortunately the psychopaths of the Security Service were not willing to allow me to enjoy a holiday in peace and quiet. The journey to Zakopane was by coach from the meeting point at Londons Victoria coach station (National Express) followed by ferry followed by another coach across Europe. As we left Victoria a youth and his girlfriend started a loud tirade of abuse directed at "this bloke", where the "bloke" was never named, but it was very clear that the "bloke" was myself. The youth said "they" had "found somebody from his school, and he was always really stressed at school, a real psycho". Again, the label "they" was not elaborated on, but it was clear that "they" = the persecutors from MI5. The boy also said, "he was in a bed and breakfast for only one night and they got him". By a not unexpected coincidence I had been in a B&B in Oxford a week previously, which had been booked from work; other things lead me to the conclusion that the company's offices were bugged for most of the 2 1/2 years that I was there, so "they" would have known a room in the B&B had been booked. After a few minutes of this I went back to where they were sitting and asked where they were travelling. The boy named a village in France, and the girl's giggling suddenly ceased; presumably it permeated to her brain cell what the purpose of the boy's abuse was.

It is now very clear to me that MI5 were trying to have me incarcerated, assaulted or killed on this trip across Europe. The degree of verbal violence inescapably leads to this conclusion. When we arrived at our destination, it became clear that many people, both in our tour group and its guide, and among the ordinary residents of the town, knew there was a movement under way to "get" me. MI5 employed many people and significant resources for an action which they knew would only take a maximum of ten days. A commercial operation would never have felt able to waste such resources on such an unproductive and temporary action; only a state-sponsored, taxpayer-funded entity like the Security Service would be able to be so wasteful.

To give some examples of what happened in those ten days; I was walking in some woods outside the town, when a Polish woman, looking at me, said the English "shit" in a strongly Polish-accented voice. For the first three years 1990-92 MI5 had been trying to force this word on me. Another example; I was walking near my "hotel" when a mother said laughing to her child, "a wiesz ze to prawdziwy wariat" which means "you know hes a real madman". And the "TV reacting" happened there too; on Polish TV, a bemused looking journalist said to another, "to jest sprawa Anglikow", which means "its the concern of the English", in other words, none of our business, despite what the English are trying to force down our throats.

Just before we left for home, I went with some others from our group to a nearby bar. There a man shouted at me the same sexual obscenity which MI5 have constantly thrown at me these last three years. I think MI5 try to justify their various terms of abuse by repeating them at me until I say them, either while conscious or while talking in my sleep; and then they seize on my saying those words to "prove" that the obscenities are "my fault", et cetera. This rather stupid reasoning of theirs can actually be seen as indicative of the psychopathic condition attributed to them in a previous article; blaming the victim for the crime you inflict on him is how psychopaths think.

Nor did the persecutors let up during the return trip. Returning on the ferry over the channel, a rather insalubrious-looking guy talked to his mates about "and you know this bloke, hes really mad you know, hes really mad". On the National Express return coach to London, a group of five or six young people started shouting at me. I slumped in my seat and tried to avoid presenting a target, so they got ever more strident - "whats the matter with you, cant you hear us?" One of the other people who had been on the trip to Poland asked them why they were shouting at me, and they said, "hes been to Cambridge", to which the co-holidayer asked them, "have you been to Cambridge?" presumably thinking they were aggrieved fellow students, but they answered "no". Even after I left the coach at Elephant and Castle abuse continued; in the tube station, two kids started throwing abuse at me; one of them said to the other, "and you know he works?" to which the other answered "yes".

Immediate Aftermath of November 1992

As you will know from previous articles, my manager at OCG - ARIS/Oxford, Mr Mitchell, induced a mental breakdown in me in the months leading up to Nov/92. The diagnosis was regarded by the persecutors as a victory for them, because few if any people give credence to allegations of harassment when they are made by somebody suffering from schizophrenia. There is also a bias against the mentally ill, an "institutionalised bigotry" in society comparable to the institutionalised racism against blacks.

However, MI5 did not let up on persecuting me following Nov/92. In December 1992 I flew by charter jet to Alicante in Spain for two weeks recuperation. MI5 planted one of their people on the flight, a youth who tried to start some noises that "hes a nutter". One of the other passengers replied, "oh hes a nutter is he? oh well!" and the youth shut up and said nothing for the rest of the flight. I think it would be fair to say that the youth on the flight was embarrassed by what he had been asked to do in making the flight "uncomfortable" for me; he sounded defensive rather than aggressive.

My first trip to Canada in June 1993

Ive already covered this in a previous article so Ill just give a brief summary here. On 10 June 1993 I flew British Airways from Heathrow to Torontos Pearson Airport. On de-planing from the aircraft, one of a group of four fellow passengers looked at me and said, laughing, "if he tries to run away well find him". It was quite obvious that these four men were the ones who had been harassing me since 1990.

I did nothing to apprehend them or bring this incident to the attention of the airport authorities, mostly because this was my very first visit to Canada, and the last thing I wanted was to get into a dispute before I had even finished disembarking. In retrospect, I can see this was a terrible mistake; I should have made every effort to detain and identify these people.

Subsequently I have made numerous attempts to obtain the names of these people from British Airways passenger lists, by talking to BA, through a lawyer in Ontario, through a solicitor in England, through the UK police, and also through private detectives in the UK. But all my efforts have come to nothing. BA have told me they keep passenger lists for a period of seven years, so they will still have the list for this 1993 flight. I did not see or hear anything during the rest of my visit to Ontario in 1993 which would have lead me to believe that I was being watched or followed.

Journey across Canada in summer 1994

As I think Ive already said in previous articles I emigrated to Canada in late May 1994. For six weeks between late May 1994 and early July 1994 I travelled across Canada from coast to coast, starting in Toronto, visiting various cities and ending up in British Columbia. I saw this both as something of a holiday, and the chance to get to know a little better my adopted country.

As you can guess, MI5 followed me everywhere I went during these six weeks. In Toronto, where I started this trip in late May, I was spoken about by one youth to another with the words "hes an idiot", to which the other replied, laughing sympathetically, "good luck to him".

A couple of days later I went to Montreal and stayed at the YMCA downtown. As you can guess (this is all so predictable, isnt it?) MI5 followed me there and bugged my room at the YMCA. Not only that, but they managed to set-up an instance of "newscaster reaction" from a local television station; while I was watching a Vermont TV news programme on the set in my room, the woman reporter said, "well theyre just tired and they want to go home", which sounds like a pretty unprofessional thing to say until you realise she was trying to say of me that I was the one that was supposed to be tired, and they (ie MI5) wanted me to go home to the UK.

On the bus journey across the North American continent, it was quite clear that MI5 were following me every step on the way. For the first part of the journey they actually put someone on the bus with me, a youth who said at me "that guys paranoid" and tried to incite other passengers to attack me. I stopped for a couple of days in Winnipeg in central Canada, and on leaving the town heard on the radio a female presenter ranting about "insanity! insanity!". It is very tiring travelling such a long distance by bus; I took the journey in two steps, each of about 36 hours; and it is especially tiring when you know MI5 are watching you and harassing you every step of the way.

When I finally got to Vancouver, MI5 instituted the usual harassment, in very short order. I was surprised how quickly they were able to induce hatred towards me in elements of the general populace; the Security Service must have employed a number of agents and serious resources in a very short period of time; and for no real gain, because I havent been back to BC for almost five years, so all their "work" appears to be for nothing. In downtown Vancouver a street person said in front of me, "theyre all talking about him". For a few days I was staying at Pauls Guest House (345 W.14th Ave); on the day I left, the owner Paul shouted at no-one in particular, "hes going to Victoria" - which was quite accurate, I was indeed going to the provincial capital Victoria on Vancouver Island. But I had not told anyone at the guest house where I was going; I had only mentioned to my parents back in England on the phone that I was going away from Vancouver for a few days. Which leads me to suppose that MI5s bugging of the phone in my parents house yielded the "intelligence" that I intended to visit Victoria, and they had passed the information on to Paul.

When I got to Victoria it was again obvious that the persecutors were "doing their stuff" there as well. On the street I was identified as being English, although I had not said anything so my accent hadnt given me away; and returning by ferry to the mainland, I was abused by a Canadian woman who said, "hes a nutter! you can run but you cant hide". During my years in Canada I have never heard the word "nutter" on any other occasion; I do not think it is part of Canadians vocabulary; so the Canadian woman on the ferry, who was obviously talking about me, must have been supplied with this word by the English persecutors. And once I got back to Vancouver, staying at the Austin Hotel on Granville St, I listened to a conversation in the apartment block directly opposite, and a man saying, "hes paranoid, so thats as bad as it can be, so why are they doing this to him?".

Holiday in the States, August 1995

By 1995 I was living in Canada, and in August I went down the eastern seaboard to Florida and as far as Key West by car. As you can guess (this is all so boring and predictable, isnt it?) MI5 followed me every step of the way. I can see in retrospect that this must have been quite easy for them as they had my car bugged, both on the inside to listen to anything that was said and what radio station I was listening to, as well as what must have been a tracker device installed to track it across long distances.

The first city I visited was Philadelphia. In the old Congress Hall where the first US Congress assembled, the woman guide started referring to my situation, saying that "all these people in Europe were watching it", and they were "a little paranoid" at this 18th-century experiment in democracy. Also I had recently written a newsgroup post where Id described a (female) poster as "wet-nosed" (implying "canine"), and a young girl in Philadelphia remarked, "so he thinks were dogs?" There were two or three more incidents during this holiday in the eastern States, including a radio station down near Miami, showing "they" had tracked me all the way there, and were bugging the inside of my car; but I didnt record the details and Ive forgotten some of it now. Also down in Miami Beach a French tourist in a lift expressed support for me with the words, "cest incroyable" ie. its incredible, meaning that MI5s well-known actions against me were beyond belief.

To go back a bit, in about May/June 1995 Id visited New York, again by car, and was insulted several times by people using the same words that had been used against me in England. In Central Park, and elderly Englishman (not a real gentleman - but then the Engish view of themselves as "gentlemen" etc is quite laughable) looked at me and said "idiot". And while I was eating in a streetside restaurant a New York youth started laughing and said something like, "I cant believe it, hes actually here" - I think that was because I had had an expressed wish to visit New York for some years before this, although after this visit I wont be going there again for a very long time.

Visit to Poland December 1995/January 1996

In December 1995 I flew (BA again, unfortunately - every time Ive flown BA one of these incidents has happened, presumably MI5 is happier setting up harassment on British-domiciled carrier) from Montreal to Berlin and travelled on to Poland to visit family. MI5 naturally harassed me in Poland during my brief stay. They followed me around and got Polish people to take part in the harassment. In one case two Polish youths talked in front of me saying in English (with marked Polish accents), "fucked up men, fuck you". There were also other incidents which I dont remember too clearly since it was some time ago.

The return flight connected through Heathrow, and in the transit lounge MI5 again set-up harassment against me. In Poland they were talking their abuse in English, and in London they set Polish people after me to speak in Polish; they heard me on the phone to my father, and said "a wiesz ze to Polski wariat", in an almost sympathetic, inclusive fashion (translation. "you know hes a Polish nutter"). Once on the flight to Montreal I was again set upon by two English youths, one of whom spoke and the other listened. The aggressive "fat bastard" youth said, "if he wants to be a wanker" (its my fault theyre harassing me, you see), self-justification that "hes a nutter" (so we have to keep on abusing him, because hes ill), as well as talking about the town in Poland where I had been staying. He also said, "he doesnt know who we are", but as already remarked in a previous article, that was at best a half-denial of my guess expressed in internet newsgroups that the people after me were MI5 - if anything its a half-confirmation rather than a half-denial.

These incidents are still going on. You can hear digitised audio files of abuse on a BA flight to Berlin in 1998 on the Web at address

On this flight they were again attacking my mental health; "paranoid, hes paranoid" and "nutter" are discernable. The last "during travel" contact was at Ottawa Airport on 21 July 1998, when "Alan Holdsworth" the psychopath MI5 agent, dressed as a vagrant, was pacing aggressively in the departure area. In three weeks I will again be travelling to Europe; we will see what fresh acts of molestation MI5 perpetrate during this trip.

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MI5 are Afraid to Admit They're Behind the Persecution

MI5 have issued a formal denial of any involvement in my life to the Security Service Tribunal, as you might expect them to; but, more importantly, the persecutors have never denied that theyre from the Security Service, despite several years of accusations from my corner on usenet and in faxed articles. I am not surprised that the Security Service Tribunal found "no determination in your favour". I am however a little surprised that the persecutors have refused to confirm my identification of them; by doing so, they implicitly admit that my guess was right.

"No determination in your favour" says the Security Service Tribunal

In 1997, I made a complaint to the Security Service Tribunal, giving only the bare outlines of my case. I do not think it would have made very much difference if Id made a much more detailed complaint, since the Tribunal has no ability to perform investigatory functions. It can only ask MI5 if they have an interest in a subject, to which MI5 are of course free to be "economical with the truth". A couple of months after my complaint the Tribunal replied that;

The Security Service Tribunal have now investigated your complaint and have asked me to inform you that no determination in your favour has been made on your complaint.

Needless to say this reply didnt surprise me in the slightest. It is a well established fact that the secret service are a den of liars and the Tribunal a toothless watchdog, so to see them conforming to these stereotypes might be disappointing but unsurprising.

It is noteworthy that the Tribunal never gives the plaintiff information on whether the "no determination in your favour" is because MI5 claims to have no interest in him, or whether they claim their interest is "justified". In the 1997 report of the Security Service Commissioner he writes that "The ambiguity of the terms in which the notification of the Tribunals decision is expressed is intentional", since a less ambiguous answer would indicate to the plaintiff whether he were indeed under MI5 surveillance. But I note that the ambiguity also allows MI5 to get away with lying to the question of their interest in me; they can claim to the Tribunal that they have no interest, but at a future date, when it becomes clear that they did indeed place me under surveillance and harassment, they can claim their interest was "justified" - and the Tribunal will presumably not admit that in their previous reply MI5 claimed to have no interest.

"He doesnt know who we are"

In early January 1996 I flew on a British Airways jet from London to Montreal; also present on the plane, about three or four rows behind me, were two young men, one of them fat and voluble, the other silent. It was quite clear that these two had been planted on the aircraft to "wind me up". The fat youth described the town in Poland where I had spent Christmas, and made some unpleasant personal slurs against me. Most interestingly, he said the words, "he doesnt know who we are".

Now I find this particular form of words very interesting, because while it is not a clear admission, it is only a half-hearted attempt at denial of my guess that "they" = "MI5". Had my guess been wrong, the fat youth would surely have said so more clearly. What he was trying to do was to half-deny something he knew to be true, and he was limited to making statements which he knew to be not false; so he made a lukewarm denial which on the face of it means nothing, but in fact acts as a confirmation of my guess of who "they" are.

On one of the other occasions when I saw the persecutors in person, on the

BA flight to Toronto in June 1993, one of the group of four men said, "if he tries to run away well find him". But the other three stayed totally quiet and avoided eye contact. They did so to avoid being apprehended and identified - since if they were identified, their employers would have been revealed, and it would become known that it was the secret services who were behind the persecution.

Why are MI5 So Afraid to admit their involvement?

If you think about it, what has been going on in Britain for the last nine years is simply beyond belief. The British declare themselves to be "decent" by definition, so when they engage in indecent activities such as the persecution of a mentally ill person, their decency "because were British" is still in the forefront of their minds, and a process of mental doublethink kicks in, where their antisocial and indecent activities are blamed on the victim "because its his fault were persecuting him", and their self-regard and self-image of decency remains untarnished. As remarked in another article some time ago, this process is basically the same as a large number of Germans employed fifty years ago against Slavic "untermenschen" and the Jewish "threat" - the Germans declared, "Germans are known to be decent and the minorities are at fault for what we do to them" - so they were able to retain the view of themselves as being "decent".

Now suppose this entire episode had happened in some other country. The British have a poor view of the French, so lets say it had all happened in France. Suppose there was a Frenchman, of non-French extraction, who was targeted by the French internal security apparatus, for the dubious amusement of French television newscasters, and tortured for 9 years with various sexual and other verbal abuse and taunts of "suicide". Suppose this all came out into the open. Naturally, the French authorities would try hard to place the blame on their victim - and in their own country, through the same state-controlled media which the authorities employ as instruments of torture, their view might prevail - but what on earth would people overseas make of their actions? Where would their "decency" be then?

This is why MI5 are so afraid to admit theyre behind the persecution. Because if they did admit responsibility, then they would be admitting that there was an action against me - and if the truth came out, then the walls would come tumbling down. And if the persecutors were to admit they were from MI5, then you can be sure I would report the fact; and the persecutors support would fall away, among the mass media as well as among the general public. When I started identifying MI5 as the persecutors in 1995 and 1996 there was a sharp reduction in media harassment, since people read my internet newsgroup posts and knew I was telling the truth. The persecutors cannot deny my claim that theyre MI5, because then I would report their denial and they would be seen as liars - but they cannot admit it either, as that would puncture their campaign against me. So they are forced to maintain a ridiculous silence on the issue of their identity, in the face of vociferous accusations on internet newsgroups and faxed articles.

Have MI5 lied to the Home Secretary?

In order for the Security Services to bug my home, they would either have needed a warrant from the Home Secretary, or they might have instituted the bugging without a warrant. Personally I think it is more likely that they didnt apply for a warrant - I cannot see any Home Secretary giving MI5 authority to bug a residence to allow television newscasters to satisfy their rather voyeuristic needs vis-a-vis one of their audience. But it is possible that the Security Service presented a warrant in some form before a home secretary at some point in the last nine years, for telephone tapping or surveillance of my residence, or interception of postal service.

So the possibility presents itself that a Home Secretary might have signed a warrant presented to him based on MI5 lies. Just as MI5 lie to the Security Service Tribunal, so they might have lied to a Home Secretray himself. MI5 and MI6 are naturally secretive services former home secretary Roy Jenkins said, they have a "secretive atmosphere ... secretive vis-a-vis the government as well as [enemies]". Jenkins also said he "did not form a very high regard for how they discharged their duties".

It was only a few years ago that MI5 was brought into any sot the extraordinary thing is that British media organisations like the state- and taxpayer-funded BBC take such an active part in the MI5-inspired campaign of harassment. We have after all heard of MI5 trying to bribe broadcast journalists; but surely there must be a substantial number who are not bought or blackmailed by the Security Services, and who take part in the "abuse by newscasters" of their own volition? The BBC is supposed to be independent of the government of the day as well as the Establishment in general. While perhaps it is childish to think that the BBC is anything other than effectively state-controlled, the degree of collusion between the BBC and the British Secret Police MI5 is something you would not find in many countries. Individual tele-journalists in other countries would have enough self-esteem not to allow themselves to be controlled by their secret police - seemingly, BBC broadcasters like Martyn Lewis and Nicholas Witchell have such a low opinion of their employing organisation that they see no wrong in dragging the BBCs no-longer-good name through yet more mud, at the mere request (whether supported by financial or other inducements) of the British secret Police, MI5.

And when challenged, these broadcasters LIE about their involvement, with just as little shame as MI5 themselves. The BBCs Information dept have said that;

"I can assure you that the BBC would never engage in any form of surveillance activity such as you describe"

which is an out-and-out lie. Buerk and Lewis have themselves lied to their colleagues in the BBCs Information department over the "newscaster watching", but unsurprisingly they refuse to put these denials in writing. Doubtless if the "newscaster watching" ever comes to light, Buerk and Lewis will then continue to lie by lying about these denials. So much for the "impartial" BBC, a nest of liars bought and paid for by the Security Services!

It is obvious that the persecution is at the instigation of MI5 themselves - they have read my post, and only they have the surveillance technology and media/political access. Yet they have lied outright to the Security Service Tribunal. Similarly, BBC newscasters Michael Buerk and Martyn Lewis have lied to members of their own organisation. The continuing harassment indicates they are all petrified of this business coming out into the open. I will continue to do everything possible to ensure that their wrongdoing is exposed.

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MI5 Persecution Update: Friday 11 June, 1999

Harassment in a pub in Clapham, Tuesday lunchtime

Once a month, or once every other month, I meet a Polish friends of mine who lives in Clapham North, and sometimes we go to a particular pub near where he lives. The last time was some two months ago; I did not have my minidisc-walkman with me, and consequently was seriously harassed by people MI5 had instructed to harass me, in the pub.

This Tuesday, 8 June 1999, we again went to the same pub for a pre-meal drink. This time I did have my minidisc-walkman with me. As you can guess, we were followed into the pub by a couple of young people (Im getting older and older - isnt it funny how the MI5 agents all look young these days?). They started talking about my situation, in particular some travel I had booked the previous day. Unfortunately, they were talking fairly quietly, and my minidisc didnt pick up their speech.

MI5s schizophrenic reasoning is that simultaneously I am very important and worthy of their acts of persecution, and I am also totally unimportant and their abuse of me "doesnt matter". Perhaps they should test their agents and managers for obsessive personalities or psychotic features in the same way as employees are drug-tested. MI5 might lose their "worst cases" employees if some psychological testing were applied to their recruitment procedure.

Toothless Watchdogs. What a Surprise.

Recently I have been engaging in communications with two watchdogs, the Security Service Tribunal which deals with complaints against the security service (and always clears MI5 of any wrongdoing), and the Data Protection Registrar, which is mandated to investigate misuse of personal data held on computer.

In a letter to Nick Brooks, Security Service Tribunal secretary, dated 20 April, I asked him if the Tribunal, as an allegedly independent body, had the means to investigate complaints against MI5 other than asking MI5 to themselves investigate complaints. To my disappointment, his reply two weeks later answered the question only indirectly, in the negative. Whatever the reader might think of the merits of the case I have been putting before you in faxed articles this last year and half, you will surely recognise that it is a significant anomaly for the Tribunal to have no independent means of investigating complaints, particularly given the view expressed even by previous home secretaries that the security services are untrustworthy.

MI5 Persecution: No Justice for the Victims of MI5

In a previous article I detailed the similarities between the current MI5 Persecution in England, and other historical instances of similar persecution, notably that by the Nazi Germans in the thirties and forties. The Germans persecuted first the mentally ill, the epileptics and those suffering from schizophrenia, then moved on to racial groups; in todays Britain the persecution is again directed at those with mental illness, which the British in their cowardice find easier than taking on racial groups as the Germans did. But just as in Thirties Germany there was no recourse against a malign and omnipotent state, so the MI5 Secret Police in the modern British Fascist State allow no justice for their victims.

No Recourse Against the Security Services Illegal Harassment

It has become apparent to me over the last nine years just how loaded the dice are in todays Britain, a fundamentally fascist country which masquerades as a democracy. Britain is a democracy in name only; the Establishment, the defence and MI5 secret police are always there, regardless of which party has been voted into power most recently - and from "New Labours" conduct in office one finds it difficult to tell them apart from Old Tories, in their crackdowns on the sick and vulnerable in society.

In thirties Germany the victims of the Nazi regime had no legal recourse against their State oppressors; and in todays Fascist British state, the victims of the Establishment and its MI5 Secret Police similarly have no recourse against the illegal state-funded and organised oppression. There is supposed to be a mechanism for dealing with MI5 crimes, in the shape of the Security Service Tribunal and Commissioner; yet these have never found favour of a plaintiff. One might as well ask the Nazi SS to investigate crimes against epileptics or Jews as ask the Security Service Tribunal to investigate MI5 crimes against British citizens; it is quite obvious what the answer is going to be, regardless of what you say to them, and what evidence you provide. The Tribunal and Commissioner are a mere formality, a whitewashing body to give the Secret Services a veneer beneath which they hide their shabby criminality.

"Institutional Racism" and Bigotry in the Metropolitan Police

The recent inquiry into the racist murder of Stephen Lawrence found clear evidence of systematic and deliberate racism in the Metropolitan Police, which cannot have surprised anyone. Commissioner Sir Paul Condon accepted a somewhat lukewarm definition of institutional racism as being "unconscious". In truth, and this truth must surely be obvious to anyone who has any familiarity or encountered the great British police, the Met has not just "unconscious" racism, but very clearly "conscious" and deliberate racism, of the kind that would have done Thirties Germans proud. And it is a bastion of such open racism - when many other parts of society are learning to live in a multicultural environment, the Met is still living in the past in its attitude to the minorities.

But in addition to the systematic racism confirmed by the Lawrence inquiry, there is also something much more relevant to this case, which is systematic police bigotry against the physically and mentally disabled, which I personally have experienced in my dealings with the police over the years. You cannot expect equal treatment if you are mentally disabled. I tried to make a complaint to the police in 1995 about the harassment I had been subjected to for several years. As soon as they found out I had mental illness, they refused to even talk to me. I tried again in March 1999; the police made various threats to me, while ranting about "your paranoid rubbish" in reference to the complaints expressed to them.

The police refusal to do the job they are employed and paid to do is extremely serious, particularly as this case is highly important, indeed key to the whole issue of British self-perception at the end of the 20th century and the beginning of the 21st century. Britain has lost much in the last fifty years - it has lost an empire, it has lost its self-respect and its identity as a people. If the MI5 persecution finally makes it into the light and the Security Services are seen for the rather cheap bullies their behaviour indicates, it will have a massive and harmful effect on British self-perception in the new century.

Security Service Tribunal - Blatant Whitewashing

A few weeks ago I spoke on the phone to Nick Brooks, the Secretary of the Security Service Tribunal, which is supposed to deal with cases of MI5 transgression. I asked him if the Tribunal had ever found in favour of a plaintiff and against the Security Service. He answered that as far as he knew, it had not.

I also asked Mr Brooks if the Tribunal had any means of investigating allegations of criminal activity by MI5, other than asking MI5 themselves if they had engaged in such activity. His rather circuitous written reply states that the 1989 Security Service Act provides that "it shall be the duty of every member of the Service to disclose or give to the Tribunal such documents or information as they may require for the purpose of enabling them to carry out their functions under this Act". Which is a very round-about way of saying - "No" - the Tribunal has no way of investigating MI5 crimes - None At All.

Setting up the S.S. Tribunal, and creating a Security Service Commissioner, was really an act of falsehood by the government. It is generally recognised that MI5 are out of reach of the normal criminal justice system - the police, as we have seen, have no intesot answer to the government; in a previous article I quoted Roy Jenkins speaking of "a secretive atmosphere.... secretive vis-a-vis the government as well as [enemies]", and a "lack of frankness" from MI5.

If the government wanted to, it could reform the secret services and ensure they acted in conformance with the laws which have been enacted for them in the last ten years. But apparently the present government does not see any need to ensure security service compliance with the law. As noted above, the regulatory machinery for MI5 is deliberately weak; the Tribunal has no independent means of investigation, and it is simply a waste of time complaining to the Tribunal or Commissioner.

Every so often, fresh revelations come to light of secret service transgressions. We have heard from Shayler that MI5 bugged Jack Straw and Peter Mandelson; we have heard from Peter Wright that MI5 plotted to see Wilson ejected from office; yet so closed is the system of government that the law is never enforced against MI5 when they "bug and burgle" everyone from politicians to ordinary citizens.

No Justice from the Legal System, either

Britain has a civil and criminal justice system which effectively limits many complaints from being heard. For a civil complaint to be brought before a court, you need a solicitor willing to act on your behalf. Supposedly it is possible to represent yourself as a Litigant-in-Pthe basis of being "frivolous and vexatious" or "disclosing no cause for action in law". This is exactly what happened to me in 1997 when I twice tried to take the BBC to court for spying on me in my living room at home; my case was twice struck out, and on the second occasion an order was made against me that I could not bring further civil litigation against the BBC without leave of the court.

As the reader can guess it is quite impossible for a person with schizophrenia, who complains about the secret services and media interfering in his life, to find a solicitor willing to represent him in legal action against the persecutors. I have quite a lot of evidence of the continuing persecution which I have posted on the website, even if the evidence is quite tentative and perhaps open to varying interpretations. But I have tried several firms of solicitors; some of them have acted unprofessionally and abused me; all of them have refused to represent me. My psychiatrist gave me the name of the firm of Bindman and Partners in central London, and I have approached them twice. On each occasion they refused to accept my instructions. Plainly the problem with Bindmans, which they have admitted, is their bigotry against mentally disabled people; yet this is not just something that is wrong with Bindmans, it is something that is wrong with the legal system as a whole, since the legal system necessitates finding a solicitor willing to represent you in order to bring a case to court, but it does not have a mechanism for providing a lawyer in the case where no solicitor is willing to take on your case. So the British legal system is such as to prevent cases such as mine from ever receiving an airing in a court.

So much for the civil courts. But the criminal justice system is no better. Two years ago the Protection from Harassment Act came into force. But again, while the Act is all very well on paper, in practice it is unenforceable in my case, since it would require Police action to see the law implemented, and if the police cannot even be trusted to conduct a murder investigation competently (in the Lawrence case), then what chance is there of their investigating complaints against the Security Service? Of course, it would be possible for me to personally issue proceedings through a private prosecution either against MI5 themselves, or against one or more of their media tools; but here we see the same problems as with the civil courts, because first of all I would have to find a lawyer willing to act on my behalf. Litigants-in-person do exist in the criminal courts, but the Attorney General can bring such a prosecution to an end by taking it over and entering a plea of "nolle prossequi"; and I suspect that if I were to bring a private prosecution against either MI5 or one of their media tools, then this is exactly what would happen.

So much for British justice. But if anything the wrongs that have been perpetrated on me by the British justice system are quite mild to what others have suffered. Others have been wrongly convicted based on police evasions and lies, and spent many years in jail based on false charges. I should count myself lucky that despite the best efforts of the MI5 secret police, I have not acquired any criminal charges or convictions; which shows that for all their resources and influence, and the clear imperfections in the British legal system, there are still limits on how much subversion MI5 can achieve.

The latest in a long line of injustices

A comment I heard during the recent scandal of the police mishandling of the Lawrence murder investigation is that "its not as if the police themselves murdered him". This is not a particularly wise statement to make about the case, since it could be argued that the four alleged murderers were aided in their crime by the expectation that the police would deliberately botch the investigation - which of course is exactly what the police did.

But in my case, this would be a completely inaccurate thing to say - since the MI5 secret-police have expressly been trying to nine years now to see an end put to my life, either by having me incarcerated and my liberty ended, or by forcing self-termination on me. It is exactly as if the secret police "themselves murdered [me]", since that is what their aim is in their campaign against me.

The public has heard of instances of police mishandling of cases, of police manufacturing evidence, lying in court, extracting false confessions to clear up crimes, et cetera. Various instances of extra-legal activity by the secret services have also come to light in the last few years. The unhappy truth is that what MI5 have been doing to me for the last nine years is really nothing out of the ordinary for them. To me it seems unbelievable that this sort of systematic campaign of harassment, which thousands and thousands of people in this country and abroad are well aware of, could exist for such a long period of time with the media maintaining "omerta". But my case is not the first such instance of persecution by the "British secret police", and judging by the lack of any real controls on MI5, I very much doubt it will be the last.

29233

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Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From -30931459631290296
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Date: 16 Dec 2007 17:59:45 GMT
Lines: 280
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 276
Xref: g2news1.google.com alt.conspiracy.antichrist:2856 alt.peeves:2126
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MI5 Have Systematically Destroyed My Life

This is getting depressing. From the feedback Ive received, the recipients of these faxes are tired of hearing my complaints, and in truth I am tired of sending them. The reason I havent yet ceased sending faxes is because I cannot think of any other effective means of replying to MI5s actions against me, and I feel I have to do something to try to defend myself. Three/four years ago I got the MI5 harassment out of my system by posting about it on Internet newsgroups, and for a few months this tactic was quite effective - I received (and indeed still do today) support from newsgroup regulars, and felt I could make my voice heard and break the MI5 monopoly on access to the British media. But that was years ago, and today nobody gives a tinkers cuss about my internet posts - so I have sought to escalate matters by communicating directly with the politicians who allegedly say how this country is supposed to be run.

Of course, its quite expensive to keep up a campaign of fax messages for many weeks. Each set of faxes takes approx 50 hours to send over the weekend, and costs perhaps 35. My phone bill for the last quarter was 350. These figures are naturally insignificant compared to what MI5 have been spending against me over a similar period. It also takes a lot of time and energy to create a new article every week, and try and find new and fresh aspects and viewpoints on MI5s persecution of me. I am beginning to run out of both new topics and energy to write these articles.

So I have a suggestion to put before the MI5 persecutors who have been wrecking my life since 1990. In a few days time I will be going on holiday to Poland and Germany, for a couple of weeks. Previously, almost every time I have travelled by plane, or gone anywhere on holiday, the MI5 "wreckers" have been most assiduous in destroying these trips. My suggestion is; if MI5 leave me alone on this next trip, I will cease transmitting these articles. If, however, there are any clear instances of harassment (and I am very capable of recognising MI5 harassment when I see it), then I will make public these instances and publish any recordings I may make of them, and, unwillingly and unhappily, continue the articles.

Read about the MI5 Persecution on the Web

Keith Hill MP (Labour - Streatham), my elected representative, as ever refuses to help.

MI5 Refuse to Allow me to have a Normal Life

Its kind of difficult to contemplate having a normal existence when you know your entire house is bugged from top to bottom, for audio and, very unpleasantly, video; when your employment is systematically destroyed, over and over again; when every time you leave the country your travel is disrupted by MI5 plants on the plane yelling abuse at you..... you get the idea. I would like to have some semblance of a normal life, like my Polish and English friends do. But MI5 have made this impossible, and they have leached massive resources from the taxpayer to institute a life not worthy of the name on me.

A few years ago MI5 were very open about their aims in persecuting me. They were shouting "suicide" at me, both in Canada where I lived at the time, and during my occasional visits to London. You cant get much clearer than that. There have been instances as recently as a few weeks ago of this intention being voiced by their side; on 15 April 1999, a woman at the next ticket counter at the Royal Festival Hall said;

"it would kill it, you know, it would just be overkill... they can't stop can they"

meaning that "they" were trying to "kill it" i.e. me and they "cant stop". The audio file is at;

I wonder why they "cant stop". Nobody (who doesnt know already) believes my claims - so what difference would it make, if they were to "stop" persecuting me? Perhaps what this persons remarks indicates, is the depth of the obsession MI5 have with this case. They have chosen at random a person from the general population, and done their worst to ruin my life. What is wrong with these people, that they persecute a national of the country whose citizens they are supposed to protect?

No Chance of a Harassment-Free Job

Since the harassment started in 1990 I have had three jobs, the first near Guildford, the second in Oxford, and the third overseas in Canada. All three jobs have been systematically destroyed by MI5. It is so ironic that

MI5 employs a team of agents, each well compensated for their efforts, to persecute just one person paid a mere fraction of what they get for their "work". In fact, it is a joke that MI5 is allocated resources for this sort of effort. If this area of government were run along commercial lines then MI5 would be very rapidly closed down, they produce nothing of any value, instead spending their time obsessed with the bugging and surveillance of their former employees like Shayler, dangerous subversives like Straw and Mandelson, and "threats to national security" like yours truly.

Applying for my first post university job

When I was applying for my first post-university job in the closing months of 1990, I found at two or three job interviews that MI5 had got there ahead of me. Interviewers knew what words to repeat from what had been said at my home recently; MI5 had supplied them with words to hurt me, and the "British secret police" were trying to wreck my job search and discourage me from joining the world of work. This and the continuing harassment in the media and by the public meant that the search for a job took very much longer than it would ordinarily be expected to take for a person with my qualifications.

With my first job near Guildford came the knowledge that MI5 were doing everything possible to make me lose the job. Despite their efforts I managed to stay in work for ten unhappy months, during which they made very clear to me that they were bugging my workplace, my accomodation in Woking, my car, my home..... and they also made clear that they had "got to" my employer in Guildford.

Employment with Oxford

I was able to find a new job, with Oxford Computer Training Services (now ARIS/Oxford), quite quickly. But it became very clear, very quickly, that MI5 were treating this job the same as the first; they tried to get the other employees and in particular the managers to attack me. It was plainly MI5s intention that I be sacked fro this job. But I was not sacked; instead, after almost a year of abuse from OCTS managers, I was forced to seek medical help, and had to take two months off for medical leave. OCTS MD Hugh Simpson-Wells was motivated in keeping me on by the fear that if he sacked me, then I would take him to court for the treatment OCTS managers had meted out to me during 1992.

Emigration to Canada

When I emigrated to Canada in 1994, I did think that perhaps MI5 would leave me alone, given that I had made the effort to leave the UK and try to find a new life overseas. I could not see any reason why they would continue to harass me over in Canada. But clearly the MI5 agents had their salaries to think about, since continue to harass me they most certainly did, at my home in Ottawa, and by getting fellow employees to speak against me, as had happened with previous jobs in the UK.

MI5 are denying me a future in work

Former Chief Constable of Devon and Cornwall John Alderson had this to say regarding MI5's activities;

"MI5 is not under the same restraints as the police. They infiltrate organisations, people's jobs and lives. They operate almost like a cancer."

Currently I am on disability, and I can see that MI5 are denying me a future in work. It would be an insult to logic for me to return to work and find a job, in the knowledge that an entire team of MI5 agents, paid in total many times what I would be earning, would have the objective of seeing me "done down" in the employment, and ejected from the place of work. This situation is completely wrong and nonsensical - I would very much like to have a job, but MI5 are preventing me from even thinking about returning to work. The culture of secrecy in MI5/MI6 means there is no objective oversight of their expenditure, when external oversight and greater transparency might lead to wasteful and illogical operations such as that against me being shelved.

Watched and Harassed at my Home and Accommodation

As you will know if you have been reading these articles, MI5 have watched and harassed me at my home, and at every accommodation Ive had since 1990. Theyve also watched me at neighbours houses in London, and at short-term accommodation such as hotels and bed-and-breakfasts. They have used the "words" gained from these watching activities against me, by passing these words on to other people such as OCTS managers for them to make clear that I am being watched where I live.

Harassed at rented rooms in Oxford in 1992

This was at its worst in 1992 in Oxford, where during the week I lived at rented accommodation in Oxford, and at weekends returned to my parents home in London. I was being severely harassed by managers at my place of work, OCTS; and it was clear from the things they said that they were being supplied by MI5 with details of my home life, that they were being supplied with words to repeat at me.

In 1992 I moved house in Oxford many times, living at a total of five rented accommodations in ten months. In January I started off living in a rented room at Headington near the ring road / A40 intersection; then when it became clear that house was being bugged, moved to a rented room in Botley, some miles away. It was at the house in Botley that I had an "interactive watching" experience with Martyn Lewis while he was reading the news; I threw a term of abuse at him; he first flinched, then gave a gsult of what I had just said, he was no longer "on my side".

So I moved house again. This time to a place in Cowley, near the Rover car works, where I stayed for a few weeks. Because of continuing harassment at work, I soon moved from this accommodation, to yet another rented room on Iffley Road. By this time I was very ill and being abused continuously at work. Again, MI5 followed me to the rented room on Iffley Road, and created new instances of "newscaster watching". There was a television in the room which I watched, and as you can guess the newscasters got at me when I was watching the television. Also once I was assaulted, if thats the word for what happened, on leaving the house; a youth grabbed me by the coat lapels, roughed me up a bit with various terms of abuse. I did not report this assault to the police, because what was happening to me at work was very much worse, and nobody seemed to think that that was worthy of being reported to the police. Later that day at work, Alex G, a fellow employee, said "I heard he was assaulted".... I had not told anyone at work about the incident that morning..... so once again it was made very clear that MI5 were watching my rented accommodation and giving information about what was going on there to managers at work.

So I moved house yet again in late autumn 1992, this time to a rented room in a large house on Woodstock Road. I stayed there for several weeks as the situation at work deteriorated due to OCTS managers abuse, until I was forced to take sick leave from work for two months and attend hospital as an outpatient; at which point I gave notice on the room, and returned to London.

MI5 continued to harass me after the diagnosis of serious illness was made. As reported previously, they harassed me on a flight to Spain in December 1992; and in 1993, when I returned to live and work in Oxford, they again bugged my rooms, as well as my workplace, although the intensity of the harassment was very much less than in 1992.

Watched, followed and harassed in Canada

It dismayed me to find that MI5 would not leave me alone after I had settled in Canada. In January 1995 I rented an apartment at the Bayshore complex in Ottawas west end. For some weeks there was no sign of the "buggers". But then it started all over again. They first bugged my car, which had a car alarm installed - the alarm went off two or three times in a single evening, and the following day gave a signal that the car had been broken into. Then they bugged my apartment, and in particular they installed bugs on the phone line in my apartment.

In September 1995 I moved to a new apartment in Ottawas Bytown Market area, the restaurant and entertainment heart of Canadas capital. This proved a serious mistake. In the west end I had been fairly distant from the centre of town where MI5 concentrated their efforts at turning people against me. In the Market area it was much easier for the persecutors to motivate people to harass me, and over the next couple of years there were frequent instances of harassment by the general public.

From 1995 I had some Polish friends in Ottawa, and as the reader can guess, MI5 have spent much effort trying to break up this friendship. They supplied various things about my home life to these friends, for example where I was living in the Market, directly over the road were the studios of a music radio station, which you had to "look up" to see; and MI5 told these friends that I was "looking up" to see the radio station; so the friends then replayed these words back to me, that I was "looking up". MI5 have also made various sexual slanders against me, and these friends also unwittingly replayed some of the words they had been imprinted with by the MI5 persecutors.

MI5 Will Never Allow Me to have a Normal Life

I have heard many excuses as to why MI5 continuously prevent me from having a normal life. We are told that MI5 are defending the country against a tere to zero.

When I have travelled abroad, they always put their people on the flights, on the journeys I undertake, to continue the harassment, so that I am put off further overseas travel, and chained to my home in London. Yet even this is illogical, because when I lived in Canada, they would still put people on flights back to the UK.... and what possible reason would they have for doing that? Perhaps the truest words to describe the MI5 persecution is that reason has nothing to do with their activities - sane people do not behave in the way the MI5 British Secret Police have been doing.

Summer 1999 - more MI5 harassment?

In only a few days time I will be going to Europe again. This time I have deliberately chosen to travel by a non-UK airline; so we will see if they put their paid agents on this foreign carrier, we will see if they try to harass me on this non-British flight.

If they do harass me on this trip to Europe, or if they resume the harassment in London after I return home, then I will continue to report their activities in these faxes. As I said at the beginning of this article, I would very much like to not have to send these articles any more, but that is not my decision to make - it is entirely up to MI5 to cease their pointless persecution of me, once and for all.

31416

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From: "K" <K@spam.net>
Newsgroups: alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
References: <m07111617594282@4ax.com>
In-Reply-To: <m07111617594282@4ax.com>
Subject: Re: MI5-Persecution: MI5 Have Systematically Destroyed My Life (31416)
Date: Sun, 16 Dec 2007 10:14:11 -0800
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X-Complaints-To: abuse@rr.com
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Why don't you just ignore the whole thing? Who gives a crap if your house is bugged, what are you saying and doing that could possibility be of any interest. Make yourself the most boring subject in the world, and forget about it. If they want to bug you and report on your normal little life, so be it. Just bore the hell out of them. Go on with your life, do a job that you don't get paid for, and you can't be fired from. Why would you care about their stupid comments, you're letting them win if you don't.

K

<MI5-Victim@mi5.gov.uk> wrote in message news:m07111617594282@4ax.com...
>
> MI5 Have Systematically Destroyed My Life
>
> This is getting depressing. From the feedback Ive received, the recipients of these faxes are tired of hearing my complaints, and in truth I am tired of sending them. The reason I havent yet ceased sending faxes is because I cannot think of any other effective means of replying to MI5s actions against me, and I feel I have to do something to try to defend myself. Three/four years ago I got the MI5 harassment out of my system by posting about it on Internet newsgroups, and for a few months this tactic was quite effective - I received (and indeed still do today) support from newsgroup regulars, and felt I could make my voice heard and break the MI5 monopoly on access to the British media. But that was years ago, and today nobody gives a tinkers cuss about my internet posts - so I have sought to escalate matters by communicating directly with the politicians who

> allegedly say how this country is supposed to be run.
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> Of course, its quite expensive to keep up a campaign of fax messages for many weeks. Each set of faxes takes approx 50 hours to send over the weekend, and costs perhaps 35. My phone bill for the last quarter was 350. These figures are naturally insignificant compared to what MI5 have been spending against me over a similar period. It also takes a lot of time and energy to create a new article every week, and try and find new and fresh aspects and viewpoints on MI5s persecution of me. I am beginning to run out of both new topics and energy to write these articles.
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> So I have a suggestion to put before the MI5 persecutors who have been wrecking my life since 1990. In a few days time I will be going on holiday to Poland and Germany, for a couple of weeks. Previously, almost every time I have travelled by plane, or gone anywhere on holiday, the MI5 "wreckers" have been most assiduous in destroying these trips. My suggestion is; if MI5 leave me alone on this next trip, I will cease transmitting these articles. If, however, there are any clear instances of harassment (and I am very capable of recognising MI5 harassment when I see it), then I will make public these instances and publish any recordings I may make of them, and, unwillingly and unhappily, continue the articles.
>
> Read about the MI5 Persecution on the Web
>
> Keith Hill MP (Labour - Streatham), my elected representative, as ever refuses to help.
>
>
> MI5 Refuse to Allow me to have a Normal Life
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> Its kind of difficult to contemplate having a normal existence when you know your entire house is bugged from top to bottom, for audio and, very unpleasantly, video; when your employment is systematically destroyed, over and over again; when every time you leave the country your travel is disrupted by MI5 plants on the plane yelling abuse at you..... you get the idea. I would like to have some semblance of a normal life, like my Polish and English friends do. But MI5 have made this impossible, and they have leached massive resources from the taxpayer to institute a life not worthy of the name on me.
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> A few years ago MI5 were very open about their aims in persecuting me. They were shouting "suicide" at me, both in Canada where I lived at the time, and during my occasional visits to London. You cant get much clearer than that. There have been instances as recently as a few weeks ago of this intention being voiced by their side; on 15 April 1999, a woman at the next ticket counter at the Royal Festival Hall said;
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> "it would kill it, you know, it would just be overkill... they can't stop can they"
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> meaning that "they" were trying to "kill it" i.e. me and they "cant stop". The audio file is at;
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> I wonder why they "cant stop". Nobody (who doesnt know already) believes my claims - so what difference would it make, if they were to "stop" persecuting me? Perhaps what this persons remarks indicates, is the depth of the obsession MI5 have with this case. They have chosen at random a person from the general population, and done their worst to ruin my life. What is wrong with these people, that they persecute a national of the country whose citizens they are supposed to protect?
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> No Chance of a Harassment-Free Job
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> Since the harassment started in 1990 I have had three jobs, the first near Guildford, the second in Oxford, and the third overseas in Canada. All three jobs have been systematically destroyed by MI5. It is so ironic that MI5 employs a team of agents, each well compensated for their efforts, to persecute just one person paid a mere fraction of what they get for their "work". In fact, it is a joke that MI5 is allocated resources for this sort of effort. If this area of government were run along commercial lines then MI5 would be very rapidly closed down, they produce nothing of any value, instead spending their time obsessed with the bugging and surveillance of their former employees like Shayler, dangerous subversives like Straw and Mandelson, and "threats to national security" like yours truly.
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> With my first job near Guildford came the knowledge that MI5 were doing everything possible to make me lose the job. Despite their efforts I managed to stay in work for ten unhappy months, during which they made very clear to me that they were bugging my workplace, my accomodation in Woking, my car, my home..... and they also made clear that they had "got to" my employer in Guildford.
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> I was able to find a new job, with Oxford Computer Training Services (now ARIS/Oxford), quite quickly. But it became very clear, very quickly, that MI5 were treating this job the same as the first; they tried to get the other employees and in particular the managers to attack me. It was plainly MI5s intention that I be sacked fro this job. But I was not sacked; instead, after almost a year of abuse from OCTS managers, I was forced to seek medical help, and had to take two months off for medical leave. OCTS MD Hugh Simpson-Wells was motivated in keeping me on by the

> fear that if he sacked me, then I would take him to court for the treatment OCTS managers had meted out to me during 1992.
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> ## Emigration to Canada
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> When I emigrated to Canada in 1994, I did think that perhaps MI5 would leave me alone, given that I had made the effort to leave the UK and try to find a new life overseas. I could not see any reason why they would continue to harass me over in Canada. But clearly the MI5 agents had their salaries to think about, since continue to harass me they most certainly did, at my home in Ottawa, and by getting fellow employees to speak against me, as had happened with previous jobs in the UK.
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> ## MI5 are denying me a future in work
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> Former Chief Constable of Devon and Cornwall John Alderson had this to say regarding MI5's activities;
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> "MI5 is not under the same restraints as the police. They infiltrate organisations, people's jobs and lives. They operate almost like a cancer."
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> Currently I am on disability, and I can see that MI5 are denying me a future in work. It would be an insult to logic for me to return to work and find a job, in the knowledge that an entire team of MI5 agents, paid in total many times what I would be earning, would have the objective of seeing me "done down" in the employment, and ejected from the place of work. This situation is completely wrong and nonsensical - I would very much like to have a job, but MI5 are preventing me from even thinking about returning to work. The culture of secrecy in MI5/MI6 means there is no objective oversight of their expenditure, when external oversight and greater transparency might lead to wasteful and illogical operations such as that against me being shelved.
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> ## Watched and Harassed at my Home and Accommodation
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> As you will know if you have been reading these articles, MI5 have watched and harassed me at my home, and at every accommodation Ive had since 1990. Theyve also watched me at neighbours houses in London, and at short-term accommodation such as hotels and bed-and-breakfasts. They have used the "words" gained from these watching activities against me, by passing these words on to other people such as OCTS managers for them to make clear that I am being watched where I live.
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> ## Harassed at rented rooms in Oxford in 1992
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> This was at its worst in 1992 in Oxford, where during the week I lived at rented accommodation in Oxford, and at weekends returned to my parents home in London. I was being severely harassed by managers at my place of work, OCTS; and it was clear from the things they said that they were being supplied by MI5 with details of my home life, that they were being supplied with words to repeat at me.
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> In 1992 I moved house in Oxford many times, living at a total of five rented accommodations in ten months. In January I started off living in a rented room at Headington near the ring road / A40 intersection; then when it became clear that house was being bugged, moved to a rented room in Botley, some miles away. It was at the house in Botley that I had an "interactive watching" experience with Martyn Lewis while he was reading the news; I threw a term of abuse at him; he first flinched, then gave a gsult of what I had just said, he was no longer "on my side".
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> So I moved house again. This time to a place in Cowley, near the Rover car works, where I stayed for a few weeks. Because of continuing harassment at work, I soon moved from this accommodation, to yet another rented room on Iffley Road. By this time I was very ill and being abused continuously at work. Again, MI5 followed me to the rented room on Iffley Road, and created new instances of "newscaster watching". There was a television in the room which I watched, and as you can guess the newscasters got at me when I was watching the television. Also once I was assaulted, if thats the word for what happened, on leaving the house; a youth grabbed me by the coat lapels, roughed me up a bit with various terms of abuse. I did not report this assault to the police, because what was happening to me at work was very much worse, and nobody seemed to think that that was worthy of being reported to the police. Later that day at work, Alex G, a fellow employee, said "I heard he was assaulted".... I had not told anyone at work about the incident that morning..... so once again it was made very clear that MI5 were watching my rented accommodation and giving information about what was going on there to managers at work.
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> So I moved house yet again in late autumn 1992, this time to a rented room in a large house on Woodstock Road. I stayed there for several weeks as the situation at work deteriorated due to OCTS managers abuse, until I was forced to take sick leave from work for two months and attend hospital as an outpatient; at which point I gave notice on the room, and returned to London.
>
> MI5 continued to harass me after the diagnosis of serious illness was made. As reported previously, they harassed me on a flight to Spain in December 1992; and in 1993, when I returned to live and work in Oxford, they again bugged my rooms, as well as my workplace, although the intensity of the harassment was very much less than in 1992.
>
> Watched, followed and harassed in Canada
>
> It dismayed me to find that MI5 would not leave me alone after I had settled in Canada. In January 1995 I rented an apartment at the Bayshore complex in Ottawas west end. For some weeks there was no sign of the "buggers". But then it started all over again. They first bugged my car, which had a car alarm installed - the alarm went off two or three times in a single evening, and the following day gave a signal that the car had been broken into. Then they bugged my apartment, and in particular they installed bugs on the phone line in my apartment.
>
> In September 1995 I moved to a new apartment in Ottawas Bytown Market area, the restaurant and entertainment heart of Canadas capital. This

> proved a serious mistake. In the west end I had been fairly distant from the centre of town where MI5 concentrated their efforts at turning people against me. In the Market area it was much easier for the persecutors to motivate people to harass me, and over the next couple of years there were frequent instances of harassment by the general public.
>
> From 1995 I had some Polish friends in Ottawa, and as the reader can guess, MI5 have spent much effort trying to break up this friendship. They supplied various things about my home life to these friends, for example where I was living in the Market, directly over the road were the studios of a music radio station, which you had to "look up" to see; and MI5 told these friends that I was "looking up" to see the radio station; so the friends then replayed these words back to me, that I was "looking up". MI5 have also made various sexual slanders against me, and these friends also unwittingly replayed some of the words they had been imprinted with by the MI5 persecutors.
>
> ## MI5 Will Never Allow Me to have a Normal Life
>
> I have heard many excuses as to why MI5 continuously prevent me from having a normal life. We are told that MI5 are defending the country against a tere to zero.
>
> When I have travelled abroad, they always put their people on the flights, on the journeys I undertake, to continue the harassment, so that I am put off further overseas travel, and chained to my home in London. Yet even this is illogical, because when I lived in Canada, they would still put people on flights back to the UK.... and what possible reason would they have for doing that? Perhaps the truest words to describe the MI5 persecution is that reason has nothing to do with their activities - sane people do not behave in the way the MI5 British Secret Police have been doing.
>
> ## Summer 1999 - more MI5 harassment?
>
> In only a few days time I will be going to Europe again. This time I have deliberately chosen to travel by a non-UK airline; so we will see if they put their paid agents on this foreign carrier, we will see if they try to harass me on this non-British flight.
>
> If they do harass me on this trip to Europe, or if they resume the harassment in London after I return home, then I will continue to report their activities in these faxes. As I said at the beginning of this article, I would very much like to not have to send these articles any more, but that is not my decision to make - it is entirely up to MI5 to cease their pointless persecution of me, once and for all.
>
> 31416
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> --

> Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
>   ------->>>>>>http://www.NewsDemon.com<<<<<<------

> Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

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From -5410994133658538311
X-Google-Thread: fa1dc,6c7f1ec88136fc1c
X-Google-Thread: f79f6,6c7f1ec88136fc1c
X-Google-Thread: fc2a5,6c7f1ec88136fc1c
X-Google-Thread: fdf97,6c7f1ec88136fc1c
X-Google-Thread: fe6d9,6c7f1ec88136fc1c
X-Google-Thread: 10b88a,e8f855c276e5b660
X-Google-Attributes:
gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,gid10b88a,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.centurytel.net!
news.centurytel.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 16 Dec 2007 12:37:13 -0600
Date: Sun, 16 Dec 2007 12:38:16 -0600
From: Keith <n0ty@removeme.charter.net>
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)
MIME-Version: 1.0
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer,uk.misc
Subject: Re: MI5-Persecution: MI5 Have Systematically Destroyed My Life (31416)
References: <m07111617594282@4ax.com> <47656af3$0$11066$4c368faf@roadrunner.com>
In-Reply-To: <47656af3$0$11066$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <OemdnYcff93E7fjanZ2dnUVZ_remnZ2d@centurytel.net>
Lines: 339
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 207.119.217.96
X-Trace: sv3-fZyTnsEOR1uhv/cQS58CZ7jPnTSG136eW3pG/
Y5oZq2DxLRLWVOByfBVhaEUlcWwy2dOTNYO1s8lTOJ!
mltwxIuiAtsmAvJ28VZc0fdKcAYMi9d0gCKIEzmYVD2OuBzxRuLNYXkwhSx7CRLrjwPyLa8N2OD7!
AK7HRR1cPd+u+p7P89Vr85zf+x47PwPSj+gX0YE=
X-Complaints-To: abuse@centurytel.net
X-DMCA-Complaints-To: abuse@centurytel.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com alt.conspiracy.antichrist:2858 alt.peeves:2128
rec.radio.amateur.homebrew:14845 alt.fan.nikki-dial:177 hr.org.fer:140494
uk.misc:142297
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There was a fellow like this at Washington University in St. Louis back in the 70's who put a note on everyone's car saying how the CIA was doing mind control experiments on him while in class by shining laser beam in his eyes, and on and on. They got him professional help.

Just a suggestion MI5-Victim. And wouldn't it be MI6 anyway?

Keith

K wrote:
> Why don't you just ignore the whole thing? Who gives a crap if your
> house is bugged, what are you saying and doing that could possibility be
> of any interest. Make yourself the most boring subject in the world,
> and forget about it. If they want to bug you and report on your normal
> little life, so be it. Just bore the hell out of them. Go on with your
> life, do a job that you don't get paid for, and you can't be fired
> from. Why would you care about their stupid comments, you're letting
> them win if you don't.
>
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> <MI5-Victim@mi5.gov.uk> wrote in message news:m07111617594282@4ax.com...
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>> MI5 continued to harass me after the diagnosis of serious illness was
>> made. As reported previously, they harassed me on a flight to Spain in
>> December 1992; and in 1993, when I returned to live and work in Oxford,
>> they again bugged my rooms, as well as my workplace, although the
>> intensity of the harassment was very much less than in 1992.
>>
>> Watched, followed and harassed in Canada
>>
>> It dismayed me to find that MI5 would not leave me alone after I had
>> settled in Canada. In January 1995 I rented an apartment at the Bayshore
>> complex in Ottawas west end. For some weeks there was no sign of the

>> "buggers". But then it started all over again. They first bugged my car,
>> which had a car alarm installed - the alarm went off two or three
>> times in
>> a single evening, and the following day gave a signal that the car had
>> been broken into. Then they bugged my apartment, and in particular they
>> installed bugs on the phone line in my apartment.
>>
>> In September 1995 I moved to a new apartment in Ottawas Bytown Market
>> area, the restaurant and entertainment heart of Canadas capital. This
>> proved a serious mistake. In the west end I had been fairly distant from
>> the centre of town where MI5 concentrated their efforts at turning people
>> against me. In the Market area it was much easier for the persecutors to
>> motivate people to harass me, and over the next couple of years there
>> were
>> frequent instances of harassment by the general public.
>>
>> From 1995 I had some Polish friends in Ottawa, and as the reader can
>> guess, MI5 have spent much effort trying to break up this friendship.
>> They
>> supplied various things about my home life to these friends, for example
>> where I was living in the Market, directly over the road were the studios
>> of a music radio station, which you had to "look up" to see; and MI5 told
>> these friends that I was "looking up" to see the radio station; so the
>> friends then replayed these words back to me, that I was "looking up".
>> MI5
>> have also made various sexual slanders against me, and these friends also
>> unwittingly replayed some of the words they had been imprinted with by
>> the
>> MI5 persecutors.
>>
>> MI5 Will Never Allow Me to have a Normal Life
>>
>> I have heard many excuses as to why MI5 continuously prevent me from
>> having a normal life. We are told that MI5 are defending the country
>> against a tere to zero.
>>
>> When I have travelled abroad, they always put their people on the
>> flights,
>> on the journeys I undertake, to continue the harassment, so that I am put
>> off further overseas travel, and chained to my home in London. Yet even
>> this is illogical, because when I lived in Canada, they would still put
>> people on flights back to the UK.... and what possible reason would they
>> have for doing that? Perhaps the truest words to describe the MI5
>> persecution is that reason has nothing to do with their activities - sane
>> people do not behave in the way the MI5 British Secret Police have been
>> doing.
>>
>> Summer 1999 - more MI5 harassment?
>>
>> In only a few days time I will be going to Europe again. This time I have
>> deliberately chosen to travel by a non-UK airline; so we will see if they
>> put their paid agents on this foreign carrier, we will see if they try to
>> harass me on this non-British flight.

```
>>
>> If they do harass me on this trip to Europe, or if they resume the
>> harassment in London after I return home, then I will continue to report
>> their activities in these faxes. As I said at the beginning of this
>> article, I would very much like to not have to send these articles any
>> more, but that is not my decision to make - it is entirely up to MI5 to
>> cease their pointless persecution of me, once and for all.
>>
>> 31416
>>
>>
>> --
>> Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
>>      ------->>>>>>http://www.NewsDemon.com<<<<<<------
>> Unlimited Access, Anonymous Accounts, Uncensored Broadband Access
>


From -2363343812407610075
X-Google-Thread: fc2a5,6c7f1ec88136fc1c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!feeder.news-service.com!newsfeed.freenet.de!
border2.nntp.ams.giganews.com!nntp.giganews.com!sn-xt-ams-06!sn-xt-ams-03!sn-ams!
sn-feed-ams-02!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-
for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MI5-Persecution: MI5 Have Systematically Destroyed My Life (31416)
Date: Sun, 16 Dec 2007 16:41:48 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13mba5fhg71r4ff@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <m07111617594282@4ax.com> <47656af3$0$11066$4c368faf@roadrunner.com>
In-Reply-To: <47656af3$0$11066$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 16
Xref: g2news1.google.com rec.radio.amateur.homebrew:14846

K wrote:

 > <MI5-Victim@mi5.gov.uk> wrote in message news:m07111617594282@4ax.com...
 >> MI5 Have Systematically Destroyed My Life

 > Why don't you just ignore the whole thing?  Who gives a crap...

Reply limited to rec.radio.amateur.homebrew
```

From what little I've seen in this and a few other N.G.s, this is some sort of automated trolling spam that has plagued a lot of groups for quite some time. What its goal is has been unstated. Don't feed the trolls.

Regards,

Michael

```
From -17594104694096795
X-Google-Thread: fc2a5,a355a1b7b5491592
X-Google-Thread: 1159c6,a355a1b7b5491592
X-Google-Attributes: gidfc2a5,gid1159c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q77g2000hsh.googlegroups.com!not-for-
mail
From: Marra <cresswellavenue@talktalk.net>
Newsgroups: rec.radio.amateur.homebrew, sci.electronics.cad
Subject: Re: "MARTHA" RF/Microwave CAD Using APL -- Free!
Date: Sun, 16 Dec 2007 14:54:11 -0800 (PST)
Organization: http://groups.google.com
Lines: 17
Message-ID: <e2fab309-22e6-43a6-9e1a-ba1fa8a02b2a@q77g2000hsh.googlegroups.com>
References: <w5mdnZM9gtYe9c7anZ2dnUVZ_tXinZ2d@rcn.net> <2933aefb-5594-450d-b14c-
c532788ac93b@s36g2000prg.googlegroups.com>
     <Rq6dnXcNteMZwcranZ2dnUVZ_t6onZ2d@rcn.net> <d6e03b61-95bf-45fb-
b4b4-83fcd57a147d@s19g2000prg.googlegroups.com>
     <So-dnXw9HPDLasranZ2dnUVZ_hSdnZ2d@rcn.net>
<13lgbuie6bdq082@corp.supernews.com>
     <nL2dndeq2pWLosXanZ2dnUVZ_oGjnZ2d@rcn.net> <b2871396-
e387-44cf-8031-1785b53e71cf@e10g2000prf.googlegroups.com>
     <13lr2or2n54f8de@corp.supernews.com>
NNTP-Posting-Host: 78.144.162.106
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1197845651 8254 127.0.0.1 (16 Dec 2007 22:54:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 16 Dec 2007 22:54:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: q77g2000hsh.googlegroups.com; posting-host=78.144.162.106;
     posting-account=3QGqzAoAAAAmP4XD3TywGgdyHgybpCPh
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0;
     SIMBAR={AE14EC5E-72E2-11DC-8880-CE0789138E9C}; SLCC1; .NET CLR 2.0.50727;
     Media Center PC 5.0; InfoPath.1; .NET CLR 3.5.21022; .NET CLR
     3.0.04506),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14847 sci.electronics.cad:8984
```

> > PC's have bags of memory now so the old pin limited packages are out
> > of date.

Some of the free packages are based around DOS or early windows where
a megabyte of memory was the limiting factor.

Anyone who has put the effort into writing a "full" PCB software
package is not going to give it away.
It just doesnt make sense, they would be better off pulling pints at
the local pub to make money.
The pin limitation was used to offer cheaper packages to people but
even some of the larger packages I have seen have limitations on them.
I think my software tops out at 32000 pins per package which is an IC
I am eager to see !
In fact you run out of room on the 50 inches by 50 inches layour
before you run out of memory !

From 5539901675259824133
X-Google-Thread: fc2a5,6c7f1ec88136fc1c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!indigo.octanews.net!news-out.octanews.net!mauve.octanews.net!news-out.readnews.com!postnews3.readnews.com!news.coretel.net!not-for-mail
From: "radiosrfun" <radiosrfun@radiosrfun.com>
Newsgroups: rec.radio.amateur.homebrew
References: <m07111617594282@4ax.com> <47656af3$0$11066$4c368faf@roadrunner.com> <13mba5fhg71r4ff@corp.supernews.com>
Subject: Re: MI5-Persecution: MI5 Have Systematically Destroyed My Life (31416)
Date: Sun, 16 Dec 2007 18:22:47 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Lines: 29
Message-ID: <4765b347$0$30087$ecde5a14@news.coretel.net>
Organization: CoreTel
NNTP-Posting-Host: 88740f16.news.coretel.net
X-Trace: DXC=6X[P5@I<[hMJ?U=B:mnb_McYX6N<OEXQKde^YB]f@OKJI^`gU\4Z0IOjfi9T:W]i^AOjMRPDK?88@
X-Complaints-To: abuse@coretel.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:14848

"msg" <msg@_cybertheque.org_> wrote in message
news:13mba5fhg71r4ff@corp.supernews.com...
>K wrote:
>
> > <MI5-Victim@mi5.gov.uk> wrote in message news:m07111617594282@4ax.com...
> >> MI5 Have Systematically Destroyed My Life
>
> > Why don't you just ignore the whole thing? Who gives a crap...
>
> Reply limited to rec.radio.amateur.homebrew

>
> From what little I've seen in this and a few other N.G.s, this is some sort of automated trolling spam that has plagued a lot of groups for quite some time. What its goal is has been unstated. Don't feed the trolls.
>
> Regards,
>
> Michael

Real or troll - I knew a guy who always claimed some similar things of the U.S. government. About 5 years after I had the occasion to meet this screwball - I had heard he tried killing his elderly father. Now - he is where he can't harm anyone - A NUT HOUSE.

Real or not - if this crap exists - it isn't something to be scoffed at - these idiots need help.

From 6584569681358844162
X-Google-Thread: fc2a5,a355a1b7b5491592
X-Google-Thread: 1159c6,a355a1b7b5491592
X-Google-Attributes: gidfc2a5,gid1159c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!t1g2000pra.googlegroups.com!not-for-mail
From: JeffM <jeffm_@email.com>
Newsgroups: rec.radio.amateur.homebrew, sci.electronics.cad
Subject: Re: "MARTHA" RF/Microwave CAD Using APL -- Free!
Date: Sun, 16 Dec 2007 17:23:11 -0800 (PST)
Organization: http://groups.google.com
Lines: 7
Message-ID: <2f5cedd3-d3de-4219-85f2-0c6294c09c67@t1g2000pra.googlegroups.com>
References: <w5mdnZM9gtYe9c7anZ2dnUVZ_tXinZ2d@rcn.net> <2933aefb-5594-450d-b14c-c532788ac93b@s36g2000prg.googlegroups.com>
<Rq6dnXcNteMZwcranZ2dnUVZ_t6onZ2d@rcn.net> <d6e03b61-95bf-45fb-b4b4-83fcd57a147d@s19g2000prg.googlegroups.com>
<So-dnXw9HPDLasranZ2dnUVZ_hSdnZ2d@rcn.net> <13lgbuie6bdq082@corp.supernews.com>
<nL2dndeq2pWLosXanZ2dnUVZ_oGjnZ2d@rcn.net> <b2871396-e387-44cf-8031-1785b53e71cf@e10g2000prf.googlegroups.com>
<13lr2or2n54f8de@corp.supernews.com> <e2fab309-22e6-43a6-9e1a-ba1fa8a02b2a@q77g2000hsh.googlegroups.com>
NNTP-Posting-Host: 198.147.225.150
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1197854591 5597 127.0.0.1 (17 Dec 2007 01:23:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 17 Dec 2007 01:23:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com

Injection-Info: t1g2000pra.googlegroups.com; posting-host=198.147.225.150;
posting-account=zOSGNAkAAACodzv53qV0nau9KezQHGvD
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2)
Gecko/20040803,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14849 sci.electronics.cad:8985

Marra wrote:
>Anyone who has put the effort into writing
>a "full" PCB software package is not going to give it away.

You are so full of shit.
http://www.google.com/search?q=gEDA+free
http://www.google.com/search?q=KiCAD+free

From 2320340606284958887
X-Google-Thread: fc2a5,a355a1b7b5491592
X-Google-Thread: 1159c6,a355a1b7b5491592
X-Google-Attributes: gidfc2a5,gid1159c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!sn-xt-sjc-03!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Koltner" <zapwireDASHgroups@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Subject: Re: "MARTHA" RF/Microwave CAD Using APL -- Free!
Date: Sun, 16 Dec 2007 17:23:17 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13mbjs62rpsqr5b@corp.supernews.com>
References: <w5mdnZM9gtYe9c7anZ2dnUVZ_tXinZ2d@rcn.net> <2933aefb-5594-450d-b14c-c532788ac93b@s36g2000prg.googlegroups.com> <Rq6dnXcNteMZwcranZ2dnUVZ_t6onZ2d@rcn.net> <d6e03b61-95bf-45fb-b4b4-83fcd57a147d@s19g2000prg.googlegroups.com> <So-dnXw9HPDLasranZ2dnUVZ_hSdnZ2d@rcn.net> <13lgbuie6bdq082@corp.supernews.com> <nL2dndeq2pWLosXanZ2dnUVZ_oGjnZ2d@rcn.net> <b2871396-e387-44cf-8031-1785b53e71cf@e10g2000prf.googlegroups.com> <13lr2or2n54f8de@corp.supernews.com> <e2fab309-22e6-43a6-9e1a-ba1fa8a02b2a@q77g2000hsh.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 15
Xref: g2news1.google.com rec.radio.amateur.homebrew:14850 sci.electronics.cad:8986

"Marra" <cresswellavenue@talktalk.net> wrote in message
news:e2fab309-22e6-43a6-9e1a-ba1fa8a02b2a@q77g2000hsh.googlegroups.com...
> Anyone who has put the effort into writing a "full" PCB software
> package is not going to give it away.

This is true, but from an *end user* perspective something like what

ExpressPCB and Advanced Circuits does might as well be the next best thing to free: They create or license reasonably full PCB software (especially in the case of Advanced Circuits) and presumably pay for it off of profits made from fabricating the boards... which ends up being much cheaper (really, probably no more than a few dollars per design) for a hobbyist who isn't cranking out dozens of PCB designs every year and doesn't have particularly high-end requirements.

From -4711674033677156439
X-Google-Thread: fc2a5,8fd2e9111b299175,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 16 Dec 2007 22:25:33 -0600
From: yea right <spam@spam.spam>
Organization: well
Subject: T/R sw for power amp
Date: Sun, 16 Dec 2007 21:25:33 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table)
Message-Id: <pan.2007.12.17.04.25.31.904673@spam.spam>
Newsgroups: rec.radio.amateur.homebrew
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 6
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.8.221.21
X-Trace: sv3-SNYRCuMVSPqFPvwXp1l2SCiHU/
3PNK5NpfdpyQSrAzmkfPUHj0RggxS3oXhVUPVZ2jMOFbipR+XicFz!
OGunqQ2GGmNTtXx2Ktqi01M47p17Jvd+MurODJql+f9KqQfDw9s0CTuFfoaVUwcZ8zMCbDem6MQY!
w7xllfhoXK2z1oBzDkz8Rg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14851

Contemplating the construction of a medium size SSPA (~800w) and found a few schematics on the net that seem good. However, I'm not finding anything other than relays being used for T/R switches.

How are all the major manufactures providing T/R switches and claiming QSK operation? Are they using PIN diodes? If so, anybody have a link?

From -7101019380447144071

```
X-Google-Thread: fc2a5,4f4ff560e058f9a4,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p69g2000hsa.googlegroups.com!not-for-
mail
From: "ledakenni@gmail.com" <ledakenni@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Hi to ALL. I just join this group.
Date: Sun, 16 Dec 2007 23:47:02 -0800 (PST)
Organization: http://groups.google.com
Lines: 8
Message-ID: <e709f156-f57a-41a1-9ea5-22d610b0cb0c@p69g2000hsa.googlegroups.com>
NNTP-Posting-Host: 76.198.146.54
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1197877622 16384 127.0.0.1 (17 Dec 2007 07:47:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 17 Dec 2007 07:47:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: p69g2000hsa.googlegroups.com; posting-host=76.198.146.54;
     posting-account=ldFPuwoAAAB2h254vu3NSuf-fGPSku8L
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     MyIE2; MRA 4.10 (build 01952); MRSPUTNIK 1, 8, 0, 17 SW),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14852

Greetings to all http://rtymarya.tripod.com/naruto-website-backround-music.html
naruto website backround music
 http://rtymarya.tripod.com/naruto-episode-230-music.html naruto
episode 230 music
 http://rtymarya.tripod.com/naruto-music-mp3.html naruto music mp3
 http://rtymarya.tripod.com/naruto-intro-music.html naruto intro music
 http://rtymarya.tripod.com/naruto-download-music.html naruto download
music


From 8296471426992397175
X-Google-Thread: fc2a5,a8c0bef4a0360fc6
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 17 Dec 2007 02:53:30 -0600
Newsgroups: rec.radio.amateur.homebrew
From: Ben Jackson <ben@ben.com>
Subject: Re: Soldering surface mount etc, new set of videos
References: <47539fbf$0$4014$afc38c87@news.optusnet.com.au>
<885b6413-162a-4aec-828a-498e990c3108@d4g2000prg.googlegroups.com> <4c44d49a-
f145-49de-b2f6-0fe28e12523d@y5g2000hsf.googlegroups.com>
Message-ID: <slrnfmce8a.14pp.ben@saturn.home.ben.com>
User-Agent: slrn/0.9.8.0 (FreeBSD)
```

Date: Mon, 17 Dec 2007 02:53:30 -0600
Lines: 38
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.59.212.44
X-Trace: sv3-
kudV+4xFcP4U19u6uJOru1f8KY9NAOPEXZYRnjPSTUvTE3hVeUgzim3IZe2D5aYdwbvmtUEUZq0EycE!
+5YnSVbbZvLMQDDSoLtBLMowCkACgFIW8A95wmxZdHwMEu2tRSvHLnT8TIAYin7txs7tbLO6j8QI!
6YAwPnrHBO0nrHA5bIk6KQ==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14853

On 2007-12-05, bigorangebus <bigorangebus@yahoo.com> wrote:
>
> Soldering larger QFP type devices: ...

I would add that QFP devices (especially the 0.5mm pitch types) have the most fragile leads of any package type I've worked with. You can easily bend the leads if you jostle an open tray of QFPs. If you do, you have to fix them all before soldering, because there's almost no room for error and nothing to guide the pins on the board. It takes an xacto-knife blade (the sharp edge!) to get in between the fine pitch leads and straighten them.

> Once the part is positioned and tacked, go over the pins with the flux
> pen.

Gently! See above.

> Small devices like 0602, 0805 components:

Tin one pad, then hold the component and reflow that end to tack the part down. Then do the other side. Do the steps in batches (go around and put a bit of solder on one pad (NOT BOTH) of lots of components, then tack them, then finish them).

I've also seen a neat homemade tool for small SMT parts which looks like:

```
  ,---------------|
  |               |
  O             PART
```

It's an arm that rests to the side of the board, with a vertical pin to hold down the parts (eg a sharp toothpick). A tiny finger holding your smt part in place.

--
Ben Jackson AD7GD
<ben@ben.com>

http://www.ben.com/

```
From 1714381881510381596
X-Google-Thread: fc2a5,a8c0bef4a0360fc6
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d21g2000prf.googlegroups.com!not-for-
mail
From: Leon <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Soldering surface mount etc, new set of videos
Date: Mon, 17 Dec 2007 01:51:06 -0800 (PST)
Organization: http://groups.google.com
Lines: 18
Message-ID: <ed79b3df-f5fd-440f-b38c-e343a8992a58@d21g2000prf.googlegroups.com>
References: <47539fbf$0$4014$afc38c87@news.optusnet.com.au>
     <885b6413-162a-4aec-828a-498e990c3108@d4g2000prg.googlegroups.com>
     <4c44d49a-f145-49de-b2f6-0fe28e12523d@y5g2000hsf.googlegroups.com>
NNTP-Posting-Host: 147.215.1.189
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1197885066 9429 127.0.0.1 (17 Dec 2007 09:51:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 17 Dec 2007 09:51:06 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d21g2000prf.googlegroups.com; posting-host=147.215.1.189;
     posting-account=QWZLZQkAAADFmB_RJlmk3T-GvINRaZti
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.0; .NET CLR
     2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: 1.0 cache.esiee.fr:3128 (squid/2.6.STABLE16)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14854
```

>
> Soldering larger QFP type devices: You can use the solderpaste and
> the above method for soldering these too. However, here is a
> soldering iron method I learned from a guy who re-worked PCBs on a
> production line.
> Prepare the pads with flux. Place the part down, hold it and use the
> iron to tack down the corner pins. This is important...if you get the
> 1st tack wrong you can heat it up and remove the component...if you
> get more than one area partially soldered you will need a hot air heat
> gun to remove it!!!
> Once the part is positioned and tacked, go over the pins with the flux
> pen.

Gel flux from a syringe is much better as it minimises the chance of bending the leads. I find that the solder flows better. as well.

Leon

```
From -2935214566996589773
X-Google-Thread: fc2a5,6c7f1ec88136fc1c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i29g2000prf.googlegroups.com!not-for-
mail
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MI5-Persecution: MI5 Have Systematically Destroyed My Life
     (31416)
Date: Mon, 17 Dec 2007 11:52:58 -0800 (PST)
Organization: http://groups.google.com
Lines: 38
Message-ID: <fc39abbe-149c-4029-9774-d00a26d26a25@i29g2000prf.googlegroups.com>
References: <m07111617594282@4ax.com> <47656af3$0$11066$4c368faf@roadrunner.com>
     <13mba5fhg71r4ff@corp.supernews.com>
<4765b347$0$30087$ecde5a14@news.coretel.net>
NNTP-Posting-Host: 72.0.177.83
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1197921178 2841 127.0.0.1 (17 Dec 2007 19:52:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 17 Dec 2007 19:52:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i29g2000prf.googlegroups.com; posting-host=72.0.177.83;
     posting-account=LQVNZAkAAAAHQ9vQRrCB-Qc9fLbREhw4
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14855

On Dec 16, 3:22 pm, "radiosrfun" <radiosr...@radiosrfun.com> wrote:
> "msg" <msg@_cybertheque.org_> wrote in message
>
> news:13mba5fhg71r4ff@corp.supernews.com...
>
>
>
> >K wrote:
>
> > > <MI5-Vic...@mi5.gov.uk> wrote in messagenews:m07111617594282@4ax.com...
> > >> MI5 Have Systematically Destroyed My Life
>
> > > Why don't you just ignore the whole thing?  Who gives a crap...
>
> > Reply limited to rec.radio.amateur.homebrew
>
> > From what little I've seen in this and a few other N.G.s, this is some
> > sort of automated trolling spam that has plagued a lot of groups for
> > quite some time. What its goal is has been unstated. Don't feed the
```

> > trolls.
>
> > Regards,
>
> > Michael
>
> Real or troll - I knew a guy who always claimed some similar things of the
> U.S. government. About 5 years after I had the occasion to meet this
> screwball - I had heard he tried killing his elderly father. Now - he is
> where he can't harm anyone - A NUT HOUSE.
>
> Real or not - if this crap exists - it isn't something to be scoffed at -
> these idiots need help.

Actually all these messages are from the NSA. They are testing their
new software to see if it will detect the embeded terrorist message.
Don't think they have worked out all the bugs, yet.

Paul, KD7HB

From 3443445502949016508
X-Google-Thread: fc2a5,6c7f1ec88136fc1c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!indigo.octanews.net!news-out.octanews.net!mauve.octanews.net!news-out.readnews.com!postnews3.readnews.com!news.coretel.net!not-for-mail
From: "radiosrfun" <radiosrfun@radiosrfun.com>
Newsgroups: rec.radio.amateur.homebrew
References: <m07111617594282@4ax.com> <47656af3$0$11066$4c368faf@roadrunner.com> <13mba5fhg71r4ff@corp.supernews.com> <4765b347$0$30087$ecde5a14@news.coretel.net> <fc39abbe-149c-4029-9774-d00a26d26a25@i29g2000prf.googlegroups.com>
Subject: Re: MI5-Persecution: MI5 Have Systematically Destroyed My Life (31416)
Date: Mon, 17 Dec 2007 15:03:13 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 46
Message-ID: <4766d5fd$0$30135$ecde5a14@news.coretel.net>
Organization: CoreTel
NNTP-Posting-Host: 26793dd7.news.coretel.net
X-Trace: DXC=<:P\lREl^7[HKRQ2`>P\cQcYX6N<OEXQ[XC^KVcXIIOP55RhJM`N=6X6ZR]Xe?Oi7Y3kT2]1QPmmV
X-Complaints-To: abuse@coretel.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:14856

"pdrahn@coinet.com" <co_farmer@yahoo.com> wrote in message
news:fc39abbe-149c-4029-9774-d00a26d26a25@i29g2000prf.googlegroups.com...
> On Dec 16, 3:22 pm, "radiosrfun" <radiosr...@radiosrfun.com> wrote:
>> "msg" <msg@_cybertheque.org_> wrote in message

```
>>
>> news:13mba5fhg71r4ff@corp.supernews.com...
>>
>>
>>
>> >K wrote:
>>
>> > > <MI5-Vic...@mi5.gov.uk> wrote in
>> > > messagenews:m07111617594282@4ax.com...
>> > >> MI5 Have Systematically Destroyed My Life
>>
>> > > Why don't you just ignore the whole thing?  Who gives a crap...
>>
>> > Reply limited to rec.radio.amateur.homebrew
>>
>> > From what little I've seen in this and a few other N.G.s, this is some
>> > sort of automated trolling spam that has plagued a lot of groups for
>> > quite some time. What its goal is has been unstated. Don't feed the
>> > trolls.
>>
>> > Regards,
>>
>> > Michael
>>
>> Real or troll - I knew a guy who always claimed some similar things of
>> the
>> U.S. government. About 5 years after I had the occasion to meet this
>> screwball - I had heard he tried killing his elderly father. Now - he is
>> where he can't harm anyone - A NUT HOUSE.
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>> Real or not - if this crap exists - it isn't something to be scoffed at -
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>
> Actually all these messages are from the NSA. They are testing their
> new software to see if it will detect the embeded terrorist message.
> Don't think they have worked out all the bugs, yet.
>
> Paul, KD7HB

Hmmmmmmm - that is interesting!




From 5633985712630808180
X-Google-Thread: fc2a5,6c7f1ec88136fc1c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i29g2000prf.googlegroups.com!not-for-
mail
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MI5-Persecution: MI5 Have Systematically Destroyed My Life
```

```
     (31416)
Date: Mon, 17 Dec 2007 12:55:46 -0800 (PST)
Organization: http://groups.google.com
Lines: 63
Message-ID: <dcc22d67-2993-48b8-86ec-acf3fa95dbf1@i29g2000prf.googlegroups.com>
References: <m07111617594282@4ax.com> <47656af3$0$11066$4c368faf@roadrunner.com>
     <13mba5fhg71r4ff@corp.supernews.com>
<4765b347$0$30087$ecde5a14@news.coretel.net>
     <fc39abbe-149c-4029-9774-d00a26d26a25@i29g2000prf.googlegroups.com>
     <4766d5fd$0$30135$ecde5a14@news.coretel.net>
NNTP-Posting-Host: 72.0.177.83
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1197924946 15722 127.0.0.1 (17 Dec 2007 20:55:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 17 Dec 2007 20:55:46 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i29g2000prf.googlegroups.com; posting-host=72.0.177.83;
     posting-account=LQVNZAkAAAAHQ9vQRrCB-Qc9fLbREhw4
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14857

On Dec 17, 12:03 pm, "radiosrfun" <radiosr...@radiosrfun.com> wrote:
> "pdr...@coinet.com" <co_far...@yahoo.com> wrote in message
>
> news:fc39abbe-149c-4029-9774-d00a26d26a25@i29g2000prf.googlegroups.com...
>
>
>
> > On Dec 16, 3:22 pm, "radiosrfun" <radiosr...@radiosrfun.com> wrote:
> >> "msg" <msg@_cybertheque.org_> wrote in message
>
> >>news:13mba5fhg71r4ff@corp.supernews.com...
>
> >> >K wrote:
>
> >> > > <MI5-Vic...@mi5.gov.uk> wrote in
> >> > > messagenews:m07111617594282@4ax.com...
> >> > >> MI5 Have Systematically Destroyed My Life
>
> >> > > Why don't you just ignore the whole thing?  Who gives a crap...
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> >> > From what little I've seen in this and a few other N.G.s, this is some
> >> > sort of automated trolling spam that has plagued a lot of groups for
> >> > quite some time. What its goal is has been unstated. Don't feed the
> >> > trolls.
>
> >> > Regards,
```

>
> >> > Michael
>
> >> Real or troll - I knew a guy who always claimed some similar things of
> >> the
> >> U.S. government. About 5 years after I had the occasion to meet this
> >> screwball - I had heard he tried killing his elderly father. Now - he is
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> > new software to see if it will detect the embeded terrorist message.
> > Don't think they have worked out all the bugs, yet.
>
> > Paul, KD7HB
>
> Hmmmmmmm - that is interesting!

Notice the number in parenthesis in the message title? The same title
from different groups have different numbers. When all the messages
with the same title are put in sequence by the number, then the texts
are compared, there is one word different. That word belongs to the
real message. When you do this process to enough messages, you can
discern the original terrorist message.

Another terrorist method is to embed the partial text of a message in
a picture attached to an email. The NSA computers cannot detect the
actual message that way. A person would have to LOOK at the picture
and see if there is a message on a wall, or street sign or whatever.

No, I don't have an aluminum foil hat!

KD7HB

From 7570316493843613579
X-Google-Thread: fc2a5,6c7f1ec88136fc1c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out02a.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-
out.readnews.com!postnews3.readnews.com!news.coretel.net!not-for-mail
From: "radiosrfun" <radiosrfun@radiosrfun.com>
Newsgroups: rec.radio.amateur.homebrew
References: <m07111617594282@4ax.com> <47656af3$0$11066$4c368faf@roadrunner.com>
<13mba5fhg71r4ff@corp.supernews.com> <4765b347$0$30087$ecde5a14@news.coretel.net>
<fc39abbe-149c-4029-9774-d00a26d26a25@i29g2000prf.googlegroups.com>
<4766d5fd$0$30135$ecde5a14@news.coretel.net> <dcc22d67-2993-48b8-86ec-
acf3fa95dbf1@i29g2000prf.googlegroups.com>
Subject: Re: MI5-Persecution: MI5 Have Systematically Destroyed My Life (31416)
Date: Mon, 17 Dec 2007 16:11:44 -0500

```
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 76
Message-ID: <4766e60c$0$30122$ecde5a14@news.coretel.net>
Organization: CoreTel
NNTP-Posting-Host: ed949c28.news.coretel.net
X-Trace: DXC=m[\ZG1lJ8?ERfP7ngo`?FKcYX6N<OEXQKXC^KVcXIIO@a23Og3[9X;@6ZR]Xe?
Oi7IS]YF0@Sc^>B
X-Complaints-To: abuse@coretel.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:14858
```

"pdrahn@coinet.com" <co_farmer@yahoo.com> wrote in message
news:dcc22d67-2993-48b8-86ec-acf3fa95dbf1@i29g2000prf.googlegroups.com...
> On Dec 17, 12:03 pm, "radiosrfun" <radiosr...@radiosrfun.com> wrote:
>> "pdr...@coinet.com" <co_far...@yahoo.com> wrote in message
>>
>> news:fc39abbe-149c-4029-9774-d00a26d26a25@i29g2000prf.googlegroups.com...
>>
>>
>>
>> > On Dec 16, 3:22 pm, "radiosrfun" <radiosr...@radiosrfun.com> wrote:
>> >> "msg" <msg@_cybertheque.org_> wrote in message
>>
>> >>news:13mba5fhg71r4ff@corp.supernews.com...
>>
>> >> >K wrote:
>>
>> >> > > <MI5-Vic...@mi5.gov.uk> wrote in
>> >> > > messagenews:m07111617594282@4ax.com...
>> >> > >> MI5 Have Systematically Destroyed My Life
>>
>> >> > > Why don't you just ignore the whole thing? Who gives a crap...
>>
>> >> > Reply limited to rec.radio.amateur.homebrew
>>
>> >> > From what little I've seen in this and a few other N.G.s, this is
>> >> > some
>> >> > sort of automated trolling spam that has plagued a lot of groups for
>> >> > quite some time. What its goal is has been unstated. Don't feed the
>> >> > trolls.
>>
>> >> > Regards,
>>
>> >> > Michael
>>
>> >> Real or troll - I knew a guy who always claimed some similar things of
>> >> the
>> >> U.S. government. About 5 years after I had the occasion to meet this
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>> >> is

>> >> where he can't harm anyone - A NUT HOUSE.
>>
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>> >> at -
>> >> these idiots need help.
>>
>> > Actually all these messages are from the NSA. They are testing their
>> > new software to see if it will detect the embeded terrorist message.
>> > Don't think they have worked out all the bugs, yet.
>>
>> > Paul, KD7HB
>>
>> Hmmmmmmm - that is interesting!
>
> Notice the number in parenthesis in the message title? The same title
> from different groups have different numbers. When all the messages
> with the same title are put in sequence by the number, then the texts
> are compared, there is one word different. That word belongs to the
> real message. When you do this process to enough messages, you can
> discern the original terrorist message.
>
> Another terrorist method is to embed the partial text of a message in
> a picture attached to an email. The NSA computers cannot detect the
> actual message that way. A person would have to LOOK at the picture
> and see if there is a message on a wall, or street sign or whatever.
>
> No, I don't have an aluminum foil hat!
>
> KD7HB

Hey, that explaination makes as much sense as anything else I've seen on line with regard to strange things. Be that as it may, the text is a pain in the ass - being constantly posted and it would be nice if they'd test their stuff out in some "empty" group - or - at least in a lot fewer groups. Tests "should" be able to be done in just one or two groups - I would think.

From -8118670897083956686
X-Google-Thread: fc2a5,6c7f1ec88136fc1c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!64.233.178.134.MISMATCH!postnews.google.com!d4g2000prg.googlegroups.com!not-for-mail
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MI5-Persecution: MI5 Have Systematically Destroyed My Life (31416)
Date: Mon, 17 Dec 2007 13:24:22 -0800 (PST)
Organization: http://groups.google.com
Lines: 88

```
Message-ID: <abe361bb-c961-415d-9f55-3d8d6672a471@d4g2000prg.googlegroups.com>
References: <m07111617594282@4ax.com> <47656af3$0$11066$4c368faf@roadrunner.com>
     <13mba5fhg71r4ff@corp.supernews.com>
<4765b347$0$30087$ecde5a14@news.coretel.net>
     <fc39abbe-149c-4029-9774-d00a26d26a25@i29g2000prf.googlegroups.com>
     <4766d5fd$0$30135$ecde5a14@news.coretel.net> <dcc22d67-2993-48b8-86ec-
acf3fa95dbf1@i29g2000prf.googlegroups.com>
     <4766e60c$0$30122$ecde5a14@news.coretel.net>
NNTP-Posting-Host: 72.0.177.83
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1197926663 21635 127.0.0.1 (17 Dec 2007 21:24:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 17 Dec 2007 21:24:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d4g2000prg.googlegroups.com; posting-host=72.0.177.83;
     posting-account=LQVNZAkAAAAHQ9vQRrCB-Qc9fLbREhw4
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14859

On Dec 17, 1:11 pm, "radiosrfun" <radiosr...@radiosrfun.com> wrote:
> "pdr...@coinet.com" <co_far...@yahoo.com> wrote in message
>
> news:dcc22d67-2993-48b8-86ec-acf3fa95dbf1@i29g2000prf.googlegroups.com...
>
>
>
> > On Dec 17, 12:03 pm, "radiosrfun" <radiosr...@radiosrfun.com> wrote:
> >> "pdr...@coinet.com" <co_far...@yahoo.com> wrote in message
>
> >>news:fc39abbe-149c-4029-9774-d00a26d26a25@i29g2000prf.googlegroups.com...
>
> >> > On Dec 16, 3:22 pm, "radiosrfun" <radiosr...@radiosrfun.com> wrote:
> >> >> "msg" <msg@_cybertheque.org_> wrote in message
>
> >> >>news:13mba5fhg71r4ff@corp.supernews.com...
>
> >> >> >K wrote:
>
> >> >> > > <MI5-Vic...@mi5.gov.uk> wrote in
> >> >> > > messagenews:m07111617594282@4ax.com...
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```

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> >> >> > Michael
>
> >> >> Real or troll - I knew a guy who always claimed some similar things of
> >> >> the
> >> >> U.S. government. About 5 years after I had the occasion to meet this
> >> >> screwball - I had heard he tried killing his elderly father. Now - he
> >> >> is
> >> >> where he can't harm anyone - A NUT HOUSE.
>
> >> >> Real or not - if this crap exists - it isn't something to be scoffed
> >> >> at -
> >> >> these idiots need help.
>
> >> > Actually all these messages are from the NSA. They are testing their
> >> > new software to see if it will detect the embeded terrorist message.
> >> > Don't think they have worked out all the bugs, yet.
>
> >> > Paul, KD7HB
>
> >> Hmmmmmmm - that is interesting!
>
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> > from different groups have different numbers. When all the messages
> > with the same title are put in sequence by the number, then the texts
> > are compared, there is one word different. That word belongs to the
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> > discern the original terrorist message.
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> > and see if there is a message on a wall, or street sign or whatever.
>
> > No, I don't have an aluminum foil hat!
>
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> stuff out in some "empty" group - or - at least in a lot fewer groups. Tests
> "should" be able to be done in just one or two groups - I would think.

Yeah, I know. I see them on metalworking, welding, as well as all the
amateur radio related groups.

The NSA problem is they have to be able to catch them on the internet
as people read them. It would be too easy to just pretend to be a user

and go look at the files on Google, etc. So, every time some one
actually clicks on the message, the NSA computer sees it on some ISP
or ATT or USWest interface. They need the randomness for the test!

KD7HB

From 3811988076366603755
X-Google-Thread: fc2a5,6c7f1ec88136fc1c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!198.186.194.251.MISMATCH!transit4.readnews.com!
textspool1.readnews.com!news-out.readnews.com!postnews3.readnews.com!
news.coretel.net!not-for-mail
From: "radiosrfun" <radiosrfun@radiosrfun.com>
Newsgroups: rec.radio.amateur.homebrew
References: <m07111617594282@4ax.com> <47656af3$0$11066$4c368faf@roadrunner.com>
<13mba5fhg71r4ff@corp.supernews.com> <4765b347$0$30087$ecde5a14@news.coretel.net>
<fc39abbe-149c-4029-9774-d00a26d26a25@i29g2000prf.googlegroups.com>
<4766d5fd$0$30135$ecde5a14@news.coretel.net> <dcc22d67-2993-48b8-86ec-
acf3fa95dbf1@i29g2000prf.googlegroups.com>
<4766e60c$0$30122$ecde5a14@news.coretel.net> <abe361bb-
c961-415d-9f55-3d8d6672a471@d4g2000prg.googlegroups.com>
Subject: Re: MI5-Persecution: MI5 Have Systematically Destroyed My Life (31416)
Date: Mon, 17 Dec 2007 17:04:55 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 105
Message-ID: <4766f283$0$30067$ecde5a14@news.coretel.net>
Organization: CoreTel
NNTP-Posting-Host: 960d7301.news.coretel.net
X-Trace: DXC=Bf`>Q\cdPD:2HACC4Pb>V=cYX6N<OEXQ;de^YB]f@OK:V_c[c2B\Fo?6ZR]Xe?
Oi791^NmThMQSi3
X-Complaints-To: abuse@coretel.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:14860

"pdrahn@coinet.com" <co_farmer@yahoo.com> wrote in message
news:abe361bb-c961-415d-9f55-3d8d6672a471@d4g2000prg.googlegroups.com...
> On Dec 17, 1:11 pm, "radiosrfun" <radiosr...@radiosrfun.com> wrote:
>> "pdr...@coinet.com" <co_far...@yahoo.com> wrote in message
>>
>> news:dcc22d67-2993-48b8-86ec-acf3fa95dbf1@i29g2000prf.googlegroups.com...
>>
>>
>>
>> > On Dec 17, 12:03 pm, "radiosrfun" <radiosr...@radiosrfun.com> wrote:
>> >> "pdr...@coinet.com" <co_far...@yahoo.com> wrote in message
>>

>> >>news:fc39abbe-149c-4029-9774-d00a26d26a25@i29g2000prf.googlegroups.com...
>>
>> >> > On Dec 16, 3:22 pm, "radiosrfun" <radiosr...@radiosrfun.com> wrote:
>> >> >> "msg" <msg@_cybertheque.org_> wrote in message
>>
>> >> >>news:13mba5fhg71r4ff@corp.supernews.com...
>>
>> >> >> >K wrote:
>>
>> >> >> > > <MI5-Vic...@mi5.gov.uk> wrote in
>> >> >> > > messagenews:m07111617594282@4ax.com...
>> >> >> > >> MI5 Have Systematically Destroyed My Life
>>
>> >> >> > > Why don't you just ignore the whole thing? Who gives a crap...
>>
>> >> >> > Reply limited to rec.radio.amateur.homebrew
>>
>> >> >> > From what little I've seen in this and a few other N.G.s, this is
>> >> >> > some
>> >> >> > sort of automated trolling spam that has plagued a lot of groups
>> >> >> > for
>> >> >> > quite some time. What its goal is has been unstated. Don't feed
>> >> >> > the
>> >> >> > trolls.
>>
>> >> >> > Regards,
>>
>> >> >> > Michael
>>
>> >> >> Real or troll - I knew a guy who always claimed some similar things
>> >> >> of
>> >> >> the
>> >> >> U.S. government. About 5 years after I had the occasion to meet
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>> >> >> screwball - I had heard he tried killing his elderly father. Now -
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```
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> actually clicks on the message, the NSA computer sees it on some ISP
> or ATT or USWest interface. They need the randomness for the test!
>
> KD7HB

Well - I suppose the only thing left is to block them so as not to be
bothered and "hope" their tests are successful and fruitful.




From -2325425742214642912
X-Google-Thread: fc2a5,4d05ec46d991bd63,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!news-
out.readnews.com!postnews3.readnews.com!posts.news.usenetmonster.com!
nnrp3.asbnva.usenetmonster.com!not-for-mail
From: "JimL" <jimbethladd@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Radiokit
```

```
Date: Mon, 17 Dec 2007 21:20:49 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Lines: 3
Message-ID: <47672ce2$0$1762$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
NNTP-Posting-Host: 9df3cfa0.news.usenetmonster.com
X-Trace: DXC=@a62IO6iG2Te:LNU2e3ZaTm>XX`Id5knX`IohDjb_78\39?
jeCMLQbXS@nCFQNo27TV]UnmY7I`F^GdkLWN=Z0@UmoA6doULP1PA?_lK7bfV>UE60@:lB74JQ
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:14861
```

Greetings- does this co still. exist? Tnx, Jim

```
From -7127252607024958216
X-Google-Thread: fc2a5,4f4ff560e058f9a4
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s12g2000prg.googlegroups.com!not-for-
mail
From: "ewarochellema@gmail.com" <ewarochellema@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Hi to ALL. I just join this group.
Date: Mon, 17 Dec 2007 21:40:32 -0800 (PST)
Organization: http://groups.google.com
Lines: 7
Message-ID: <1ebd196e-5dab-4d0c-8675-2b8f6683937d@s12g2000prg.googlegroups.com>
NNTP-Posting-Host: 172.143.45.125
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1197956432 23945 127.0.0.1 (18 Dec 2007 05:40:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 18 Dec 2007 05:40:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s12g2000prg.googlegroups.com; posting-host=172.143.45.125;
     posting-account=WK4Z6goAAACrFBl0sIylvGxSxSJfYPcj
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
     MyIE2; MRA 4.10 (build 01952); MRSPUTNIK 1, 8, 0, 17 SW),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14862
```

Greetings to all http://leonoreo.tripod.com/anime-video-xxx.html anime
video xxx
 http://leonoreo.tripod.com/anime--xxx.html anime xxx
 http://leonoreo.tripod.com/anime-beauty-getting-violated-xxx.html
anime beauty getting violated xxx

http://leonoreo.tripod.com/xxx-anal-anime.html xxx anal anime
http://leonoreo.tripod.com/anime-porn-xxx.html anime porn xxx

```
From -8494433120376017632
X-Google-Thread: fc2a5,ddd19c6576200d82,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i12g2000prf.googlegroups.com!not-for-
mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: potting - hot melt gule and two part epoxy
Date: Tue, 18 Dec 2007 00:28:58 -0800 (PST)
Organization: http://groups.google.com
Lines: 22
Message-ID: <bea2b617-d630-4d0b-94eb-b7b61df630f4@i12g2000prf.googlegroups.com>
NNTP-Posting-Host: 222.155.165.91
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1197966538 25117 127.0.0.1 (18 Dec 2007 08:28:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 18 Dec 2007 08:28:58 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i12g2000prf.googlegroups.com; posting-host=222.155.165.91;
     posting-account=TfKoOgkAAABQzW2yM8tZrYe8S04m-wqP
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14863
```

Hi All,

Has anyone attempted to use good old fashioned hot melt glue as an encapsulant for modules ?

Probably needs melting in a pot over a flame (with appropriate care).

A mould could me made out of Plexiglass with appropriate draft (angles) and high temperature release agent.

A second thought is to use standard two part fiberglass mix, obviously a lot more rigid, but potting boxes are likely to be needed also.

I guess I could use thin walled pipe to house a long rectifier stack and associated capacitors.

Both of these options seem significantly less expensive than standard epoxy potting compound...

Any thoughts ?

Mark

```
From -8370254590677112026
X-Google-Thread: fc2a5,6ff47af6480d66f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!news-
out.octanews.net!indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: potentiometer tic marks
Date: Tue, 18 Dec 2007 01:58:12 -0800
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.12.18.09.58.11.976875@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <fk03is$2e4d$1@zook.lafn.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 8
Organization: Octanews
NNTP-Posting-Date: 18 Dec 2007 03:58:28 CST
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:14864
```

Hi,

Try this:
http://stiftsbogtrykkeriet.dk/~mcs/Scale.html

Cheers,
--
Gregg

```
From 4115809096477621299
X-Google-Thread: fc2a5,ddd19c6576200d82
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 18 Dec 2007 08:09:39 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <bea2b617-d630-4d0b-94eb-b7b61df630f4@i12g2000prf.googlegroups.com>
Subject: Re: potting - hot melt gule and two part epoxy
Date: Tue, 18 Dec 2007 08:10:03 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
```

Message-ID: <OdSdnW6kvcA-SfranZ2dnUVZ_h2pnZ2d@comcast.com>
Lines: 36
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.239.37.56
X-Trace: sv3-aTOjnvjExFYjangBmHdbx5Efx/
zFQMyq9xCMBkQtwVzsTl+rv6mu2VmfpCpJzsmLgObEKWLjpJeuc7X!
K0dMPZ0vDetlDpQQpQXkve8iZnh9sjN0zAy2OWIeuKE1tinG0aF9AzMS0YSQEtKXJL7TwBEvTYDN!
wHGGL/8I1ZRWqUNfZDCSElE8v9On
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14865

TenTec used hot melt glue in the VCO modules of the Paragon transceiver, so this glue probably has good RF characteristics (hopefully). The expansion and contraction of this glue over varying temperatures did cause the solder joints to fracture over the years............this was the downfall of the Paragon.
I have used epoxy over the years, with good results. That is the direction I would go.

Pete

"MarkAren" <markaren10@yahoo.com> wrote in message
news:bea2b617-d630-4d0b-94eb-b7b61df630f4@i12g2000prf.googlegroups.com...
> Hi All,
>
> Has anyone attempted to use good old fashioned hot melt glue as an
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> a lot more rigid, but potting boxes are likely to be needed also.
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> I guess I could use thin walled pipe to house a long rectifier stack
> and associated capacitors.
>
> Both of these options seem significantly less expensive than standard
> epoxy potting compound...
>
> Any thoughts ?
>
> Mark

```
From 3015997886666345715
X-Google-Thread: fc2a5,2b994521f4341dc7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!indigo.octanews.net!news-
out.octanews.net!teal.octanews.net!198.186.190.95.MISMATCH!news-out.readnews.com!
postnews3.readnews.com!posts.news.usenetmonster.com!
nnrp3.asbnva.usenetmonster.com!not-for-mail
From: "JimL" <jimbethladd@aol.com>
Newsgroups: rec.radio.amateur.homebrew
References: <4745c66a$0$6678$ec3e2dad@news.usenetmonster.com>
Subject: Re: WTB 2.5" Millen Dials
Date: Fri, 23 Nov 2007 11:39:20 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Lines: 10
Message-ID: <474700bc$0$1783$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
NNTP-Posting-Host: 675d5134.news.usenetmonster.com
X-Trace:
DXC=M`]jcNmk`BYDA>9`fSACoRm>XX`Id5knX`IohDjb_78\QJl1LQDmbN[S@nCFQNo27TV]UnmY7I`F^G
dkLWN=Z0@U\YZDQa7:Jj[2ZYY1c2S;:ZK_82l6II:eV
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:14715


"JimL" <jimbethladd@aol.com> wrote in message
news:4745c66a$0$6678$ec3e2dad@news.usenetmonster.com...
> Greetings- Looking for one or two Millen dials with the 0 to 100
> calibrated skirts. The skirts are 2.5" in dia. Millen no. is 10009. Tnx,
> Jim

I found some. Tnx anyway.Jim.>




From 235056752213462779
X-Google-Thread: fa1dc,9f89b7c542821018,start
X-Google-Thread: f79f6,9f89b7c542821018,start
X-Google-Thread: fc2a5,9f89b7c542821018,start
X-Google-Thread: fdf97,9f89b7c542821018,start
X-Google-Thread: fe6d9,9f89b7c542821018,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07102406315432@4ax.com>
```

Subject: MI5 Persecution: Faxes Sent to Parliament1 (848)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 24 Nov 2007 06:32:07 GMT
Lines: 230
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 226
Xref: g2news1.google.com alt.conspiracy.antichrist:2822 alt.peeves:2098
rec.radio.amateur.homebrew:14716 alt.fan.nikki-dial:150 hr.org.fer:138317

Faxes Sent to British Parliament logs

During the 1998-2000 period my records indicate that I sent at least 14,480 faxes to the British Parliament in Westminster, of which 9,138 went via TPC's email-to-fax service and 5,342 were sent via fax-modem direct from my computer. The actual figure is obviously much higher since, for most of this period, whenever a recipient asked to be deleted from my mailing list, I totally wiped all entries including that from the logfile.

In the records "Y" indicates successful transmission from fax-modem, "N" indicates failed transmission from fax-modem.
"E" indicates an error occurred while transmitting via fax-modem and a fax may have been only partly transmitted.
"y" and "n" indicate success or failure via TPC.

In April 2000 I changed the method of operation by recording "R" when a recipient requested removal, rather than wiping their details from my mailing list and records; and keeping "B" records for when TPC actioned a ban on a recipient's fax-number, but the recipient did not write to ask me to cease faxing. The purpose of these changes was to keep more accurate and complete records, but the intention was thwarted by the police complaint.

```
441712190076  nnnnnynnEnnnnnnYYNNYYYYNENNNNNynynnnnnnnnnNnnnnnnnn
441712190179  yyyynnyyyYnyyyyynYYYNYYYYYYEYEEEyyyyyyynyyyynyyyyy
441712190189  yyynyyyyyYyyyyyyyYYYEYYYYYYYYYYYyyyyyyyyyyyyyyyyyyy
441712190243  yyyyyyyyyYnnnnnnnYYYYYYYYYYYYYYYnynnnnnnnnnNnnnnnnnn
441712190246  ynnnyyyyyYnyyynyyYYYYYYYYYYYYYYYynyyyynyyyyyyyyyy
441712190253  yynnnnnnnNnnnnnnnNNNNNNNNENNYNNNnnnnnnnnnnnNnnynnnnn
441712190254  yyyyyyyyYnynynyyYYEEEYYEEYYEYEYyyynyynyynynyyyyyn
441712190266  yyyyyyyyYyyyyyyYYYYYEYYYYYNYYYyyynyyyynyyyyyyyyyy
441712190300  yyyyyyyynYyyyynnYYYYYYYYYYYYYYYnnyyyyyyyyyyyyyyyyy
441712190301  yyyyyyyyyYnnyyyyYYYYYYYYENNYYYYnyyyynynyynyyynnnB
```

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441712190305  yyynnynyYynnyynYYEYYYEEYYYYEYYynyynyyyynyNnyyynyyy
441712190309  ynyyyyyyYynynnYYYYYYYYYYYYYYYyyyyyyyyyyyyyyyyyyy
441712190317  yyyyyyyyYyyyyyyYYYNNYYYYYYYYYEyyynnnyyyyynynnnynn
441712190319  nyyyynnnNnnnnnnNNNNNNNNNNNNNNNnnnnnnnnnnnNnnnnnnnn
441712190323  nyyyyyyYyyyyyyNNNNNNNNNNNNNNNnnnnnnnnnnnnnnnnnnn
441712190329  yyyyyyyyYyyyyyyYYYYYEYYYYYYYYYyyyyyynyyyyyyyyyyy
441712190331  ynyynnnnYyynnnnYYNYYYYYYNNYYYYynynnnnnnnnNnnnnnn
441712190332  nnynnynyYyyynyyYNYYYYYYYYYYYYYynynynnnnnnNnnnnnnn
441712190337  ynyyyyyyYyyyyyyYYYYEYYEYYYYYYYyyyyyyynyyyyyyyyy
441712190350  yyyyyyyyYyyyyyyNNNNNNNNNNNYYYYynyyyyyyyyyyyyyyyyy
441712190371  yyynnnnnNnynyyyYNNNNNYYNNNNNNNnnnnnnnnnnnnnnnnnn
441712190390  yyyynyynYynyynyYYYYYYYYYYYYYYYyyyyyyynnynyyyyyy
441712190409  nnyyyynyYyyyyyyYYYYYYYYYYENYYYyyyyyyyyyyyyynnyyy
441712190438  yyynnnnnNyyynyyYYYYYYEYYYEYYYYyyynynyyyyyyyyyyyyy
441712190446  yynnnnnnYyynynyYYYYYEYYYYEYYYYyyyyyyyyynyyyyyyyyn
441712190448  yyyyyyyyYyyyyyyYYYYYYYYEYYEYYYyyyyyynnynnyyyyyyyy
441712190461  nynnnnyyYynnnnnYYYYYYYYYEYYEEYyyyynyyynynynnyyyyy
441712190475  yynnnnnnNnnnnnNNNNNNNNNNNNNNNnnnnnnnnnnnNnnnnnnnn
441712190492  yyyyyyyyYyyyyyyEYYYYYYYYYYYYEYyyyyyyyyyyyyyyyyyyy
441712190495  ynnnnnnNyyyyyyYYEYYYYEYYYYYYEyyyyyyyyyyyyyyyyyy
441712190511  yyynnyynYynnnnnNNNNNNNNNNNNNNNnnnnnnnnnnnnnnnnnnn
441712190514  yyyyyyyyYnyynyyYYYNYYNYNEYYYYYyyyynynnnynyynnnnyy
441712190536  yyyyyyyyYyyyyyyYYYEYYEYYYYYEEYyyyyyynynnnYnnnnnnB
441712190559  yyyyyyyyYyyyyyyYYYEYYYYYYYYYYYyyyyyyyyyyyyyyyyyy
441712190573  nyyyyyyyYyyynnnYYYYYYYYYYYYYYNnnyyyyyyyynnnnnyy
441712190598  nyyyyyyYynynyyYYYYYYEYYYYNNNNyyyynyyyyyyyyyynyy
441712190612  ynnnnyyyYnynnyyYYYYYYYYYYYEYYYyyyyynnynyyyyyyyyy
441712190620  yyyyyyyyYyyyyyyEYEYYYYYYYYYYYEyyyyyyyyyyyyyyyyyny
441712190622  yyyyyyyyYyynyyyYYYYYNYYNYYYYYYyyyyyyynyyyyyyyyyy
441712190628  yyyyyyyyYynyyyYYYYYYEYYYYEYYEyyyyynyynnNnnnnnnnnn
441712190638  yynnyyyyYnyyyyyYYYYYYYYYYYYYYYYyyyyyyyyyyyyyyyyyyyy
441712190643  ynyyyyyYnynyyyYYYYYYYNYYYYYYYyynyyynyyyynnnnnB
441712190645  yyyyyyyYyyyyyyYYYYYYYYYYYYYYYyyyyyyyyyyyyyyyyyyy
441712190662  nynnnnnnYnnynnnNYNNYNYNNNNNYNNnnnnnnnnnnnNnnnnnnn
441712190663  nnnnnnnnYnnynyyNNNNNNENNNNNNNNnnnnnnnnnnNnnnnnnn
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441712190682  yyyyyyyYyyyyyyYYYYYYYYYYYYNYYnyyyyyynynyyynyyy
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441712190696  yynnnyyEnnyyyYEYEYYYYEEEYYYYyyyyyyyyyyyyyyyyyy
441712190698  yyyyyyyyYyyyyyEYYYYNNNNNNNNNNnyynnyynyyynyyynnnnn
441712190770  yyyyyyyyYynnyyyYYYYYYEYYYYYYYYyyyyyyynyyyyynyynyy
441712190783  yyyyyyyyYyyyyyyYYYYYYYYYYNEYYYyyyynyyyyyyNnyyyyyyy
441712190789  nnyyyynyYnnnnyyEYNYYYYEYENYYEEyyyyyyyynyyyynyyyyn
441712190790  yyyyyyyyYyyyyyyYYYYYYYYYYYYYYYnnnyyyyyyyyyyyyyyyy
441712190904  yyyyyyyyYyyyyyyYYEEYYYYEYYEYYYyyyyyyyyyyyyyyyyy
441712190912  yyyyyyyyYyynyyYYYYYYYYYYYYYEYynyynyyyyyyyyyynyyy
441712190913  yynyyyyyYyyyyyyYYYEENYYEYYYYYYyyyyynnyyyyyyyynyyy
441712190919  yynnnnnnYynnnnnNYYYEYNYYYEYYNEyyynnyyynyynnyyyny
441712190923  yyyyyyyyYyyyyyyYYYYEYYYEYYYYYYyyyyyyynnyyyyyyyyyy
441712190926  yyyyyyyYynyyyyYYEENYYEYYEYYYYynyyyyyyyyyyyyynyyy
441712190928  yynyyyyyYnnnnnnNNNNNNNNNNNNNNNnnnnnnnnnnnnnnnnnn
441712190931  yynynyyyYyyyyyYYYYYYYYYYYYYYNnnyyyyyyyyyNnnyyyyyy
441712190938  yyyyyyyyYyyyyyNYYYENYYNYNEEYYyyyynnnnnynNnnnnnnnn
```

441712190943	yyyyyyyyYynnnnYYYEYYYYYENNYEEnnyyynnynyyyyyyyyyyn
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441712190957	yyyyyyyYynnyyYYYYYYYYYYYYYYYyyyyyyyyyyyynyyyn
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441712190965	nnyynnnnYnnnnnYYYYYYYNYYYYYYYnynnnnnnyyNnyyyyyyy
441712190971	yyyyynyYynyyyYYYYYYYYYYYYYNYyyyyyyyyyyyyyyyynyy
441712190972	yyyyyyyyYyyyyyYYYYYYYYYYYYYYYyyyyyyyyyyyyyyyyyyy
441712190976	nyynnynyYyynnnYYYEYYYYYYYEYYYyynnyyyyyyyynnnnynyn
441712190978	yyyyyyyyYyyyyyYYYYYYYYYYYEYEYyyyyyyyyyyyyyyyyB
441712190979	yyyyyyyyYyyyyyYYYYYYYYYYYYYYYyyyyyyyyyyyyyyyyyyy
441712190981	ynyyyyyyYyyyyyYYEYYYYYEYYYYEYyyyyyyyyyyyyyyyyyy
441712190986	yyyyyyyyYyyyyyYYYYYYYYYEYYYYYyyyyyyyyyyyyyyyynyyy
441712190987	yyyynyyyYyyynyYYYYYYNYNNNNEYYynnnyyyyyyyyyyyyyy
441712190994	yyyyyyyyEyyyyyYYYYEEEYNNNNNNNnnnnnnnnnnNnnnnnnnn
441712191131	yyyynyyyEynnyyEYYEEEEYEEENEYYyyyyyyyyyyNnyyynyyy
441712191137	yyyyyyyyYyyyyyYYYYYYYYYYYYYNYnyynyyyyyyyyyyyyyy
441712191145	nnynnyyyNnynnnnYYYYYNNNNNYYENNyyyynnnyyyNnnynnynn
441712191154	yyyyyyyyYyyyyyyYYYYYYYYYYYYYYYyynynyyynyynyyyyyy
441712191158	ynnnnnnnYyynnnnYYYYYYYYYYYYYYYynnnnnnnnnnnnnnnnnn
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441712191162	yyyynyyyYnnnnnnYYYYYYYYYYYYYYYyyyyyyyyyyynyyyyyyy
441712191163	yyyyyyyyYynyynyYYYEYYYYYYYYYYEyyyyyyyyynyynyyyyynR
441712191174	ynnnnnynYyyynynYEYYYYYYYYYYNNNyyyyyyyyyyyyyyyynyyyy
441712191177	yyyyyyyyYyyyyyyYYYYYYYYYYYYYYYyyyyyyyyyyyynyyyyyyy
441712191179	nyyyyyyyYynyyyyYYYYYYYYYYYYYYYyyynyynnnynyyynynnn
441712191184	ynyyyyyyYynyyyyNNNNNYNYYYYYYNNyyynynynnyyyyyyyyn
441712191185	nyyyyyyyYnnnyyyYYYEYYYYYYYYEYYyynnnnnnyyynnnyyyny
441712191198	yyyyyyyyYnnyyyyEYYYYYEEYYYYYYYynyyyyyyyynyynyyyny
441712191227	yyyyyyyyYyyyyyyYYYYYYYYYYYYYYYyyynyyyyyyNnnnyyyyny
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441712191263	yyyyyyyyYyyyyyyYYYNYYYYYNNNNYNyyynynynyyyynnynynn
441712191268	yynyyyyyYnyyyyyYYYYYYYYYYYYYYYnyyynnyyyyyNnyyyynyy
441712191279	yyyyyyyyYyyyyyyYYYYYEYYYYYYYEYyyyyyyyyynEnnnnnnB
441712191280	nnnnnnnnYnnnnnnNNNNNNNNNNNNNNNnnnnnnnnnnnnnnnnnnny
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441712192008	yyyyyyyyYyyynnnYYNNENNNNNNNNNNnnyyyyyyyyyyyyyyyy
441712192031	yynyyyyyYyyyyyyYYYYYYYYYYYYYYYyyyyyynyynyyyyyyyy
441712192051	yyyyyyyyYynnnnnYYYYYYYYNYYYYYYyyyyyyyyyyyyyyyyynyn
441712192054	yyyyynyyYyyyyyyYEYEYYYYYYYYYYYyyyyyynyyyyEnyyyyyny
441712192064	ynyyyyyyYyyynnnYYYYYYYYYYYYYYYyyyyyyyyynyyyyyyyyynn
441712192075	yyyyyyyyYyyyyyyYYEYYYYEYYYYNYYyyyyyyyyyyyyyyyyyyy
441712192082	yyyyyyyyYynyyyyYYYYYYEEYYYYYNYyyyyyyynyyyyyyyyynyy
441712192112	yyyyyyyyNyyyyyyYYYYYYYYYNNEYYYyyyyyyyyyyyyyyyyyy
441712192117	ynyyyyyyNnynyyyYYNYYYYYYYNYYYYyyyyyyyyyyyyyyyyynny
441712192130	ynnnnnnnYyynnnYYYYYYYYYYYYYYYynnnnnnnnnnnnnnnnnn
441712192148	ynyyyyyyYyyyyyyYYYYYYYYYYYYYYYyyyynyyynyyyyyyyynyy
441712192170	yyyyyyyyYynnnnnNYYYYYYNYYYYYYYyyyyyyyyyyyyyyyyyyn
441712192212	yyyyyyyyYynnnnnNNNNNNNNNNNNNNNnnnnnnnnnnNnnynnnnn
441712192220	yyyyyyyyYynyyyyYYYYYYYEYYYNYYYyyyyyyyyyynnyyyyyny
441712192221	ynyyynyyYyyynnnYYYYYEEEYYYNYYYyyynyyynyynyyyyyny
441712192233	yyynnyyyYyyyyyyYYYYYEEYEEYYYYYnnnyyyynyyynyynynyn

```
441712192252  yyyyyyyyYyyyyyyNYYYYYYYYYYNYEYyyynyyyyyyyyyyyyyny
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441712192269  yyyyyyyyYyyyyyyYYYYYYYYYEYYYYYyyyyyyyyyyyyyyyyyy
441712192288  yyyynnnnEnnnnnnYEYYYENNNNNNNYEyyyyyyyyyyyyyyyyyyy
441712192289  yyyyyyyyYyyyyyyYYYYYYYYNYYYYYYyyyyyyyyyyynyyynny
441712192302  yyynnyyyEnnyyyyEYYYYYNYYYYYYYYyyynynynnnyyynynnyn
441712192328  yyyyyyyyYyynyyyYNYYYYYEYYEYYYYyyynyyyyyynyyyyyyny
441712192329  yyyyyyyyYyyyyyyYYYYYYYYYYYEYYEnyyyyyyyyyyyyyyyyyy
441712192331  yynyyynyYnnnnnnYYEEYEEYEENNYNNynnnnnnnynnNnynyynny
441712192334  ynyyyyynNyyyyyyYYEEYYEEYYYYEEYyyyynyynynnynyyynyy
441712192338  ynnnnnnnYyynnnnYYEYYYYEYEYYYYYynnnnnynnnnnnnnnnnn
441712192357  yyynyyyyYyyyyynYEYYNYYYYYYYYYYyyyyyyynyyyynynyB
441712192359  yyyynyyyYyyyyyyYYYYYYYYYYEYYYYyyynyyyyyyyyynyyyy
441712192364  nnnnnnnyEynnnnYYNYYYYEYENNNNNnyyyyyyyynnNnnnnnnn
441712192377  yyyyyyyyYyyyyyyYYYYYYYEYYYYYYYyyyyyyyyyyyyyyyyy
441712192404  yyyyyyyyYyyyyyyNYYYEYYYYYYYYYYyynyynyyyyyyyyyyyyy
441712192412  yyynyyyyYyyyyyyYEEYEYNEYNYYYYYnyynynnynnnynyyynyn
441712192413  yyyyyyyyEyynyyyYYYYYYYEYYYYEYYyyyyyyyyyyyyyyyyyyy
441712192417  yyyyyynyYyynynnNYNYYYYYYYYYYYYyyyynyyynnNnnyyyyyy
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441712192423  yynnnynyYyyyyyyYYYYYYYYEYYYEYYyyyyyynnnnyynyynyn
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441712192433  yyyynyyyYyyynyyYYYYYYYYYYYYYYYynyyyyyyynyyyyyyyyny
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441712192494  yyynyynyYnnnnnnNNNNNNNNNNNNNNNnnnnnnnnnnnnnnnnnn
441712192495  yynyyyyYyyyyyYYYYYYYYYYYYYYYYyyyyyyyyynnyynnnnB
441712192496  ynyyyyyyYyyyyyyYYYEYYYYYYYYYYYyyyyyyyyyyyyynyynyy
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441712192503  yyynyyyyYnnynyYYNNNNNNNNNNNNNnnnnnnnnnnnnnnnnn
441712192516  ynnnnnnnNyyyyyyNNNNNNNNNNNNNNNnnnnnnnnnnnnnnnnnn
441712192518  yyyyyyyYyyyyyyYYYYYYYYYEYYYYYyyyyyyyyyyyyyyyyyyy
441712192521  nyyyyyyyYynnyyyYEYYYYYYYEYNYYYyyyyyyyyynyNnnnyyyyy
441712192529  ynyyyyyYynnyyYYYEEEEYEYYENEYynyyynyyyyyyyyyyyy
441712192536  nyyyyyyyYynyyyyyYYYYYYYYEYNYYYYnyynyyyynyyynyyyyy
441712192539  yyyyyyyyYnyyyyyEEYYYYYYYYYYYYYyyyyyyyyyyyyyyyyy
441712192541  yyyyyyynYynnnnnYYNYYNNEYYYYYYNnnnnyyyyyyyNnnyynnny
441712192545  yyyyyyyyYyyyyyyYYYYYYYYYYYYYYYyyyyyyyyyyyyyyynyy
441712192557  nyyyyyyyYynnnnnYEYYEYYYYEYYYNYyyyynnnynynNnnnnnnn
441712192564  yyyyyyyyYnyyyyyYYYEYYYYYYYNYYYyyynyyyynyyyyyyyyyn
441712192567  nynyyyynYynyyyyYYNYYYNEYEYYYYYyyyyyyyyyyyyyyyynn
441712192570  yyyyynyyYyyyyyYYYYYYYYYYYYYYYyyyyyynyyyyyyynyyyy
441712192571  yyyyyyyyYyyyyynYYYYYYYYYYYYYYYyyyyyyyynynyyyyyyy
441712192573  yyyyyyyyYyyyyyyYYYYYYYYYYYYYYYyyyyyyyyyyyyynyyyyy
441712192586  yyyyyyyyYnyynyyYYYYYYYYYYYYYYYyyyynyyyyyyyyyynyyy
441712192608  yyyyyyyyYyynyyyYYYYYEEYYEYEYEYyyynyynyyyyyyyyyyyy
```

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441712192619  yyyynynyYnynyyyYYYYYYYNYYEYYYEnnyyynynynnYnnnnnB
441712192621  ynnnnnnnYynnnnnNYNYNNYYYYEENNNnnnnnnnnnnnNnnnnnnn
441712192622  yyyyyyynYyyyyyyYYEYYYYYYYYYYYYyyyyyyyyyyyyyyyyyyy
441712192629  nnnnnnnnEnnnnnnEEEEEEEEEEEEEEEnnnnnnnnnnnnnnnnnnn
441712192630  nnnnnnnnYnnnnnnEYYYNYEYEYNYYYYnyynynnynynNnyyyyyy
441712192643  ynyyyyyyYyyyyyyYYYYYYYYYYYYYYYyyyyyyyyyyyNnynyyyyy
441712192651  yyyyyynnYyynyyyYYYYYYYYYYNNYYYyyyynnyyyyynnnyyn
441712192665  yyyyyyyyNynyyyyYYYYYYYYYYYYYYYnnynnnnnnnnnyyyyny
441712192671  yyynyyyyYynyyyyYYYNNNNYYYYYYYYnnyyyyyyyynyyyyyy
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441712192690  yyyyyyyYyyyyyyYYYYYNNYYYYYYYYyyyyyyyyyyyyyyyyyy
441712192694  nnyyyyyYyyynyyEENYYYYYYYYYYEEnnyyyyyyyyyyyyyy
441712192697  yynynnnNnnnnnnNNYNYYYYNNYNYYYyyynnnyyyyyNnyynyyy
441712192698  yynnnnnYnnnnnnNNEYYYEYYYNNNYYnyyyyyyyyyyyynynnn
441712192706  nynnnnnYyyyyyyYYYYYYYYYYYYYEYyyyynyyyyyyyynyyy
441712192707  nnyyyyyYyyyyyYYYYYYYEYYYYENYnnyyyyynnnyyyyyynB
441712192708  ynyyyyyYnnynyyYYYYYYYYEYEYYYYnnynnnynnnnynnynnnn
441712192710  yyyyyyyYyyyyyyYYYYYYYYYYYNYYYyyyyyyyyyyyyyyynyn
441712192711  ynnnnnnYynyyyyYYYYYYYYYYYYYEYnnnnnnnyyyyyyyyny
441712192731  nnyyyynYyyyyyyYYYNYYYYYYNYEYYyyyyyyyyyyyyyyyyyy
441712192738  yyyyyyyEynyyyyYYYYYYYYYYYYYYYyyyyyyyyyyyyyyyyyyyy
441712192747  ynyyyyyYnnnnnnNNNNNNNNNNNNNNNnnnnnnnnnnnnnnnnnnnn
441712192749  yyyyyyyNyyyyyyYYYYYYYYYYYYYYYyyyyyyyyyyyyyyyyyyyy
441712192763  yyyyyyyYnnnnyyYEEEEEEEEEEEYNYyyyyyyyyyynnnyyyyyyy
441712192771  yyyyyyyYnnnnnnNNNNNNNNNNNNNNNnnnnnnnnnnnnnnnnnnn
441712192772  yyyyyyyYyyyyyyYYYYEYYYEYYYYEYyyyyyyyyyynyynynyynn
441712192782  yyyyynYyyyynyYNNYEYYYYEYYYYYynynnyyyyynyyynynyy
441712192795  yyyyyyYyyyyyyYYYYNYYYYYYYYYYyyyyyyyyyyyyyyyynyy
441712192797  yyyyyyYnnnnnnYYYYYYYEYYYYYYEyyyyyyyyynyyyyyyyyy
441712192798  yyyyyyYyyynnnYYYYYYYYYNYYYYYnynyynnnynynyyyynyy
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441712192810  yyyyyyYynnyyyYEYYYYYYYYYYYYYyyyyyyyyyyyyyyyyyy
441712192814  yyyyyyYyyyyyyYYYYYYYYYNNYYYYnnnnnnnnnnnnnnnnnnn
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441712192834  nynnnnNynnnnnEEYYYENYYNNEYYYyynnyyynnnnnnnnnny
441712192849  yyyyyyYyyyyyyYYYYYYYYYYYYYYYyyyyyyyyyyyyyyyyny
```

848

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

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From 2295216812986304830
X-Google-Thread: fa1dc,d771467bf3688ec1,start
X-Google-Thread: f79f6,d771467bf3688ec1,start
X-Google-Thread: fc2a5,d771467bf3688ec1,start
X-Google-Thread: fdf97,d771467bf3688ec1,start
X-Google-Thread: fe6d9,d771467bf3688ec1,start
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X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: FINNISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07102407085921@4ax.com>
Subject: MI5 Persecution: Faxes Sent to Parliament2 (3023)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 24 Nov 2007 07:09:12 GMT
Lines: 233
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 229
Xref: g2news1.google.com alt.conspiracy.antichrist:2823 alt.peeves:2099
rec.radio.amateur.homebrew:14717 alt.fan.nikki-dial:151 hr.org.fer:138318

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441712192879  yyyyyyYnyyyyyYYYYYEYYYYYYYYYyyyyyyyyyyyyyyyynyny
441712192905  yyyyyyYyyyynnYYYYNNNNNYYNYEYynyyynyyyyyyyynyyyyy
441712192912  yyyyyyYyyyyyyYYEYYEEYYYYYYEYyyyyynyyyyyyyyynyyyy
441712192921  nyyyyyYyynyynEYYYYYYYYYEEYNYynnnnnynnynynyyyyyy
441712192949  yyyyyyYyyynynYYYYYYYYYYYYYYYyyyyyyyyyyyyyyyyyynn
441712192957  yyyyyyYyyyyynYYYEYYYYYYYYYEYyyyyyyyyyyyyyyyyyyyy
441712192965  ynyyyyYyyyyyyYYYYYYYYYNYYYYYyynynyyynynyyyyyyyy
441712192969  ynnnnnYnnyyyyYNEEYYNYNEYEYNYnnnynyyyynNnyynnyny
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441712193000  nnynynNynnnnnNNNNYNNNNNNNNNNnnnnnnnnnnnNnnnnnnnn
441712193010  yyyyyyYyynynyNYYEYEYYYYEYYNYyyynnnnyynNnynnnyny
441712193047  yyyyyyYynyyyyYYYYYYEYYYYYYYEyyyynyyyyyyyyyyyyyy
441712193085  yyyyyyNyyyyyyYYYYYYYYYYYYYYYyyyyyyyyyyyyyyyyyyy
441712193373  yyyyyyEyyyyyyYYYYYYYYYYYYYEYyyyyynyyyynnYnnnnnnB
441712193382  yyyyyyYyyyynyYYEYYYYYYYYEYEYnnnyynnyyyyyynnnyy
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441712193434  nyyyyyYyynyyyYYYYYEYNYYYYYYYynyyynnnyyyyyyyyynyy
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441712193665  nyynyyEyyyyyyYYEENYYYYYNYYEYyyyyyyyynyyyyyyyyy
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441712193801  yyyyyyYyyyyyyYYYYYYYYYYYYYYYyyyyyyyynyyyyyyyyy
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441712193816  yyyyyyYyyyyyyYYYYYYYEEYYYYYYyyyyynyyynyyyynnyn
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441712193819  ynnnnnYyyyyynYYYYYYYYNNNNNNNnnnnnnnnnnnnnnnnnnn
441712193823  nnnnnnNnynyyyNYYYNYEYEEYYEYYyyynnyynnyyynyyynyR
441712193824  yyyynyYyynyyyYYYYYYYYYYYYYYYyyyyyynyynyynnnyyn
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441712196979  nynynYnnyyyYYYYYYYYYYYYYYYYYnnnnyynnnnnnnnnynnn
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No faxes were sent after April 2000.

3023

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

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From 1431901803430896682
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X-Google-Language: ENGLISH,ASCII-7-bit
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news.newsdemon.com!not-for-mail
Message-Id: <m07102407453062@4ax.com>
Subject: MI5 Persecution: How Could It Be True? (5198)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 24 Nov 2007 07:45:44 GMT
Lines: 145
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 141
Xref: g2news1.google.com alt.conspiracy.antichrist:2824 alt.peeves:2100
rec.radio.amateur.homebrew:14718 alt.fan.nikki-dial:152 hr.org.fer:138319

MI5 Persecution: How Could It Be True?

If you have the patience to read these articles you will be struck by how apparently fantastic the claims being put forward are. You may ask yourself why such seemingly nonsensical assertions are made. This matter has been discussed on the Internets UK-local newsgroups for three years now, and the denizens of the uk.misc newsgroup (the so-called "miscreants") have come up with a number of theories to explain these posts; it has been variously suggested that they are a troll (an artificial creation for the amusement of its author), that they are made by MI5 themselves with the purpose of discrediting other conspiracy theories, and that the poster is mentally ill and the articles are symptomatic of the illness (the view held by most miscreants).

Are these claims the product of mental illness, or is that just a cover?

The most obvious explanation, that the claims made result from the admitted mental illness of the author, is the one which the persecutors intend be the one accepted without consideration being given to the possibility of the claims being true. The persecutors have actually been very clever about this, both in selecting as their target someone who was known from school or university as being borderline schizophrenic, and in ensuring the nature of their persecution corresponds to what often features in the delusions of a schizophrenic.

The very first incident of the persecution occurred in June 1990, when I was still a student at university in London. It consisted of a reaction (giggling) from the newsreader, Sue Carpenter of ITN, to what she saw happening in my living-room at my parents home where I was living. Before your imagination gets the better of you I should make clear that what the newsreader was reacting to was not too embarrassing in nature; my mother had brought an apple for me into the the room, and Sue Carpenter found this amusing.

I recognized that Carpenter had reacted to what she had seen in my living-room, yet this idea still seemed completely fantastic to me. My reaction was to continue watching television, particularly the news, to see if this incident would be repeated. It was, many times, both on BBC and ITV. An intelligent person would have thought to obtain a video recorder and capture some of these incidents in order to try to explain to an observer what he saw in these broadcasts. Unfortunately, I failed this test of intelligence, since I did not record these programmes. I have recently attempted to obtain from ITN tapes of their news programmes dating back to summer 1990, but, unhappily, they have advised me that they do not have complete programmes including newsreaders comments dating back to that period.

From the outset, the persecutors structured their actions to ensure that any complaint would be met with disbelief, and dismissed as delusional. This is why they chose as their target someone who was known at school and university to be borderline mentally ill; and it is why they fired the first shots of their campaign through the broadcast media. Schizophrenics commonly believe the media harass them; it would be exceptional for "full-duplex television" to exist in reality. Those with schizophrenia also commonly believe people are talking about them; again, the persecutors have shown themselves very rarely, but act through intermediaries, both in the workplace, and in public and during travel.

Mental illness is not the cause of these claims, but the simulation of its symptoms is a cover used by the persecutors to deny their victim the ability to have his compaints believed.

What evidence exists to support these claims of "interactive television/radio";?

Quite frankly, I have very little evidence to support my claims. You may examine the "Evidence" area of my website to see such evidence as I have been able to gather. None of it is remotely conclusive. The "smoking guns" all date back to 1990/91, and it is really rather late now to start trying to look for material dating back seven or eight years. In 1997 I started tape-recording every programme I watched or listened to. I also started carrying with me a high-fidelity minidisc-recorder with good quality microphone to catch incidents of public harassment, but this also has not been as successful or conclusive as I had hoped.

Perhaps the best item in the "Evidence" section is the audio file "Life is so hard" (it is labelled with Garfield the cartoon character on the site), which I have given a certainty level of 100%. This item relates to harassment at my workplace in Canada in 1996. A co-worker called Mark was coming up with phrases and expressions which were repeating things being said at my Canadian residence, consequently leading me to believe that my apartment and home phone were bugged, and that the persecutors were passing their gathered information on to Mark. On one particular evening I said in my apartment, "life is so hard, and then you die". The following day I was able to record Mark saying exactly the same phrase at work.

Unfortunately when "they" know you are recording them, they simply dont say things which would unambiguously show harassment. When Mark the co-worker knew he was being recorded, he only made his remarks out of range of the recorder, for example outside the building. When the TV newscasters or radio disc jockeys know they are being taped, they limit themselves to saying things which are ambiguous, which even in my mind may or may not be personally directed against me.

Who knows about this persecution?

Surprisingly many people know. People in the media, such as BBC and ITN newscasters including Martyn Lewis and Michael Buerk, and radio disc jockeys such as Chris Tarrant of Capital Radio, know what is going on, and take part in it. Some co-workers at my former workplaces in England and Canada have known about the harassment. Quite a few people in the general public are also included. I believe the police are aware of the persecution, but, unfortunately, have chosen not to take any action to stop it. I have complained at my local police station in London several years ago, and I have stated on the internet newsgroups that I have done so, hence the police will be well aware of my wish to see the matter resolved. I believe their inaction denotes a dereliction of duty, but without good evidence, I am powerless to compel them to take steps to prevent further harassment, or deal with what has already taken place.

What is the purpose of sending these faxes?

These faxes are being sent to three distinct groups of people, namely Members of Parliament, the media, and diplomats & legal people. As you will have observed I am making use of the email-to-fax gateway at Demon Internet to send these faxes. I am forced to use this gateway since I currently live in North America, and cannot afford the high cost of direct phone calls to the UK.

My purpose in publicising my claims is firstly to discourage the persecutors from continuing their campaign, and also to attempt to bring their campaign out into the open, and thus perhaps identify the persecutors. Neither aim has been achieved yet, but I hope that with sufficient stimulation these aims may yet be accomplished.

The problem with the second aim is that those who read this article will fall into two groups, those who dont know anything about the persecution and consequently will disbelieve my claims as delusional, and those who do know about the harassment and may have some idea of who is behind it, but realise that if the harassers are exposed and the truth brought out into the open, then powerful British institutions will substantially lose prestige, and be exposed to ridicule.

It would give me hope to believe that these faxes will create a third group of people, those who find out that I am telling the truth, and who follow their consciences in standing up and seeing justice done. Only time will tell if this hope will be realized.

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From 440936655039185200
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Message-Id: <m07102408140331@4ax.com>
Subject: MI5 Persecution: Why do you think MI5 are responsible? (7373)
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alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 24 Nov 2007 08:14:17 GMT
Lines: 210
Organization: news.newsdemon.com
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rec.radio.amateur.homebrew:14719 alt.fan.nikki-dial:153 hr.org.fer:138320

Why do you think MI5 are responsible?

The question of who is ultimately responsible for this eight-year harassment is one which is very difficult to answer, as the persecutors have never clearly made their identities known to the persecutee. However, I believe I am correct in attributing the continuing victimisation to elements of the British Security Service MI5, and in this article, I will try to explain the reasons for this belief.

The British internet magazine ".net" featured my website on page 17 of their March 1998 issue (number 42). Their review kindly describes it as an "excellent site" and gives some details of what the net surfer will find there. Should you wish to reply to this article you can do so;

"When did you first suspect MI5 were responsible?"

Over Easter 1995 I went to see a local solicitor in London with a view to talking to the police about the harassment. Soon afterwards I did go to my local police station in Clapham and spoke to an officer there. The solicitor made a comment which suggested to me that the persecution I had been experiencing may have been organised by an intelligence service.

Up to this point, I did not have any clear idea as to who was behind the harassment. Only their agents were visible, in the media, on television news programmes, and on the radio; in the workplace, where things said at my home were repeated verbatim; and in some cases abuse in public and during travel, for example on the trip to Poland in June 1992 which I have already described.

Both from the fact that widely disparate individuals and organisations were employed as agents in the campaign against me, and from the fact that an entity would be required to marshal their resources in the areas of spying on my home and giving gathered information to their agents, it was clear to me that a single entity was responsible for carrying out the campaign. Yet from June 1990 until Easter 1995 I did not have a clear idea of who might be responsible. I guessed that perhaps some private individual or group of persons who saw themselves as my enemies had perhaps paid private detectives to organise the harassment. Alternatively, since the campaign had started in the media, I made a far-fetched supposition that perhaps it was an ad-hoc group of media people who had set themselves up in opposition to me. After Easter 1995 I saw that these guesses were wrong, and I made an I believe much more accurate estimate as to who my enemies really are.

"Why couldn't a private group be behind the persecution?"

There are several reasons why a private individual or group would not be behind this campaign.

Quantity of resources / Money. Here is what one Usenet (internet newsgroup) participant had to say (several years ago) on the topic of how much money it would cost just to keep the surveillance going.

PM: >But why? And why you? Do you realize how much it would cost to keep
PM: >one person under continuous surveillance for five years? Think about
PM: >all the man/hours. Say they _just_ allocated a two man team and a
PM: >supervisor. OK., Supervisor's salary, say, #30,000 a year. Two men,
PM: >#20,000 a year each. But they'd need to work in shifts -- so it would
PM: >be six men at #20,000 (which with on-costs would work out at more
like
PM: >#30,000 to the employer.)
PM: >
PM: >So, we're talking #30,000 x 6. #180,000. plus say, #40,000 for the
PM: >supervisor. #220,000. Then you've got the hardware involved. And
PM: >any transcription that needs doing. You don't think the 'Big Boss'
PM: >would listen to hours and hours of tapes, do you.
PM: >

PM: >So, all in all, you couldn't actually do the job for much less than
PM: >a quarter million a year. Over five years. What are you doing that makes
PM: >it worth the while of the state to spend over one and a quarter million
PM: >on you?

A private individual or group would not spend over a million pounds to verbally torture a victim without some financial motive or gain. Private industry is driven by the profit motive, and there is no financial profit to be had from carrying out a campaign in this way. If a private enterprise were behind it then they would have taken direct physical action a long time ago.

State enterprises, on the other hand, can afford to be wasteful, since they are funded by the taxpayer. They do not have to show a money profit. The employees or contractors employed by a state organisation such as MI5 are driven by their own personal profit motives, to make the most money out of their employers for the longest period of time. MI5 is funded to the tune of #150M p.a.; even a few hundred thousand a year would to them be affordable if their managers could convince themselves of the necessity of what they were doing.

Quality of resources / Technical resources - electronic and other surveillance. In summer 1994 a reputable and competent private detective agency was employed to conduct a counter-surveillance sweep of my home in London. They charged us over #400 for this, conducted a thorough search for radio transmitting devices, hard-wired "probe" microphones and also tested the telephone line. They found nothing. This was not altogether surprising, since it had been made very clear to me that there were bugs in my home; the "buggers" would not have made this clear unless they had felt their bugs were of sufficient sophistication as to be safe from detection.

But there is another lesson to be gained from the failure of the private detectives to find anything. The agency employed was one of the most reputable in London. They were employed on the principle of "setting a thief to catch a thief", for if the harassment were being carried out by private detectives, as I then believed, then surely another set of private detectives would be able to find the bugs that they had planted. That these "private eyes" were unable to find anything, and that the harassers were confident that they would not be able to find any bugs, points to the harassers being an order of sophistication above a private agency, and leads me again to believe that a state intelligence service is responsible for the surveillance and harassment.

Quality of resources / Technical resources - Interception of Postal service. In summer 1994 when I emigrated to Canada to try to escape the harassment, I wrote letters home to my family and friends in London. Quite soon after my arrival in Canada, the harassers were able to find precisely where I was staying. The only way I can see of "their" being able to find out my new address was by interception of my letters to the UK.

Later in 1994, I conducted an experiment to see if my letters home were indeed being read. In a letter home I wrote of being depressed and talked in vague terms of suicide. I deliberately chose this topic, since I believed it was the outcome my harassers were trying to achieve, and that if they read the letter, they would "echo" its contents. Sure enough, soon afterwards there were two incidents of people shouting "suicide" at me in public places in Canada.

It is inconceivable for a private agency to have the ability to intercept postal mail. The state security service on the other hand is well known to engage in these activities.

Quality of resources / Access to Media. One of the strangest aspects of this case is the access "they" have to the broadcast and print media. I still do not understand what could persuade newscasters such as Martyn Lewis and Michael Buerk, who consider themselves "gentlemen", to behave in an almost voyeuristic way by "peeking" into the living room of one of their viewers. A year ago I wrote to the BBC asking if these newscasters would confirm or deny the accusations made against them. The BBC replied that their newscasters had denied the accusations, but refused to do so in writing.

It is well known that MI5 have the ability to plant stories in certain newspapers, but convincing television newscasters to "watch" a viewer while they read the news would surely be very difficult for them to accomplish, unless they presented themselves to these journalists as being, for example, a group in the media who were seeing to it that I got my "deserved" treatment. MI5 has a history of manipulating the media, so it might not be too difficult for them to accomplish such a trick, whereas a private group would not have this ability.

"Have they ever denied that they are the Security Service?"

No. Never. This is in fact the main reason why I believe "they" are MI5 and not a privately funded group. If my guess had been wrong then I am sure that "they" would have crowed over my mistake, but they have never admitted nor denied that they are employees of MI5.

In early January 1996 I flew on a British Airways jet from London to Montreal; also present on the plane, about three or four rows behind me, were two young men, one of them fat and voluble, the other silent. It was quite clear that these two had been planted on the aircraft to "wind me up". The fat youth described the town in Poland where I had spent Christmas, and made some unpleasant personal slurs against me. Most interestingly, he said the words, "he doesnt know who we are".

Now I find this particular form of words very interesting, because while it is not a clear admission, it is only a half-hearted attempt at denial of my guess that "they" = "MI5". Had my guess been wrong, the fat youth would surely have said so more clearly.

"If MI5 were behind it, why would they wish to mask their involvement?"

I have heard a number of times a belief from people in the media that it is they, the media people, who are behind the abuse. In spring 1994 Chris Tarrant the Capital Radio D.J. said sarcastically on his breakfast show, "You know this bloke? he says were trying to kill him. We should be done for attempted manslaughter". We, we, we. Tarrant thought it was a media conspiracy.

Returning to the question of "interactive watching" by television newscasters, it would again be much easier for them to take part in that sort of activity if they convinced themselves that the surveillance and abuse were organised by "their own", by media people. It must be second nature to MI5 to mask their involvement in the matters they deal with; in this case, they pretend the campaign is organised by a group in the media, and any journalists who suspect otherwise keep their silence.

Conclusion

Over the last three years I have stated with some force my belief that MI5 are responsible for my misfortunes. I have done so on Internet newsgroups, in letters and faxes to people in politics and the media in the UK, and in 1997 I made a formal complaint to MI5 regarding their activities; the Security Service Tribunal replied in June 1997 that "no determination in your favour has been made on your complaint". (I believe the statement by the Security Service Tribunal can be disregarded, as they have never, ever made a ruling in favour of a complainant.) In three years of naming MI5 as my oppressor "they" have never denied the charge. To me, their silence on this point indicates that my guess was accurate. I believe my persecutors stand identified. The question of why they should carry out this campaign is one I will try to answer in a future article.

7373

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Subject: MI5 Persecution: Why would they be doing this to you, sir? (9548)
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Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 24 Nov 2007 08:41:04 GMT
Lines: 199
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
Xref: g2news1.google.com alt.conspiracy.antichrist:2826 alt.peeves:2102
rec.radio.amateur.homebrew:14720 alt.fan.nikki-dial:154 hr.org.fer:138321

MI5 Persecution Update: Friday 15 May, 1998

The persecution has been quite severe for the last week. It appears that my enemies are reacting to the steady stream of faxes making their way over the Atlantic to the fax machines of Westminster politicians and the media. Here is whats happened in the last few days;

The week started off with an incident in the cafeteria at a local shopping centre where I habitually drink my morning coffee. My enemies have concentrated since winter 1995/96 on throwing a particularly horrible sexual slander against me. They "put people up" to repeat this slander against me, and this is what happened again here.

On Thursday morning (yesterday), instead of going to the usual cafeteria I went to a nearby convenience store for coffee. The same horrible sexual slander was shouted at me very loudly by a member of staff as I walked into the store. This was the first time I had ever bought morning coffee in that shop. The other staff obviously knew what was going on, one of them said, "they screwed up my life".

The fax gateway I use to send these faxes to the UK has been working hard these last few days to shut down my access by barring the accounts I use to send these faxes.

I have received an anonymous threat from fax number 0171-219-6101 (the machine gave its name as "ETRA-HoC") which said, "Stop sending to this fax no 0171-219-6101 or else" (the consequences of continued transmission were unspecified). I invited the sender to apologise for his threat, but received no response.

This all adds up to quite a severe reaction to my faxes of the last few weeks. I actually find this quite heartening since it shows that my faxes are finding the mark and there may yet be a breakthrough in my efforts to expose the Security Service conpiracy of abuse against me which has now been going on for eight years.

MI5 Persecution: "Why would they be doing this to you, sir?"

This article will concentrate on the difficult question of "Why". The question which forms the title of this piece was asked of me by the police officer I spoke to in Easter 1995, when I went to make my complaint.

There are really two sides to this question. Firstly, why should MI5 be harassing anybody in this fashion? Secondly, if they choose to behave in this way, why should they have selected me in particular, and not somebody else? Alternatively, why did the persecution start, and why is it continuing?

I do not have definite answers to either side of this question, since my persecutors have usually kept themselves hidden and only acted through other parties. To know "why", one would have to know who the persecutors are, and something of their personalities, since their abuse is almost certainly symptomatic of a personality disorder of the abusers. Certain things however can be deduced about the abusers from the nature of their behaviour, and I will talk about this later in the article.

Why did it start?

It is clear that the persecution must have been initiated by someone who knew me personally, either at school, or at university, or socially, and knew that I was borderline mentally ill, since this is what makes me a target for the persecutors. Unfortunately, the originators have never been identified, and there are several possible candidates. Neither has the link from the originators of the persecution, to the persecutors themselves, ever been made clear. So who are the originators?

University Staff

The identity of the originators may lie in the timing of the persecution. It started in June 1990, while I was finishing a course at Imperial College in London, and a year after I graduated from Cambridge, where I received a degree in computer science. At Cambridge I had achieved some notoriety in the computer lab from various nefarious exploits. Roger Needham attacked me by saying that "there were great hopes for it, but it failed terribly". When I started at Imperial I found that my reputation had preceded me; Cambridge computer lab had spoken to I.C. lecturers about me. I.C. lecturer Frank McCabe summed up commenting about "setting up a straw man so you can tear him down". (Despite being "torn down" by the Cambridge computer labs lecturers, I still achieved a good first degree and a Masters degree at Imperial.)

Other students at university

So, the originators may have been university staff who knew me from my student days. But there are other possibilities. I had other enemies at university, including some fellow students. At my Cambridge college it was common knowledge that my mental health was dubious, and it was known that I talked to myself in my sleep - the floor and walls were quite permeable to noise, so other students heard. I was given the nickname "gibber" because of this habit. Sometime later, I managed to catch myself talking in my sleep when I woke up in the middle of the night.

Here is a quote from a participant in the internet newsgroup where I have been posting for the last three years;

>One thing which has been missing from this discussion is this simple
>prognosis: that maybe he is right and that, despite his admitted
>mental condition, there really is a campaign against him organised by
>now-influential ex-students of his university.

People I knew socially

I had yet other enemies in 1990 (I am a man of many enemies!). In January 1990 I broke up with some people I had been going out with socially. One of them, by the name of Andy Turner, wrote a letter to Alan Freeman, who at the time was a Radio 1 DJ. Freeman read part of the letter out on his Rock Show, about the "one who wore out his welcome with random precision", saying "thats a hell of a letter you wrote there Andy", and "with a schizophrenic youre never alone".

It is my belief that Andy Turner and his friends were trying to make trouble for me, and Turner wrote to Freeman with this in mind. Freeman may have discussed the letter with others, and things may have snowballed from there. This is, of course, pure supposition. The fact is that I do not know who the originators are, and can only guess.

Once it started, why is it continuing?

The answer to this question is obvious. It is unacceptable to the "powers that be" in the UK to have somebody running around who knows he has been targeted by the Security Service and media organizations, and who is in a position to embarrass British institutions. This has become particularly evident in the last week; as I send more faxes to UK politicians and media, so the pressure on me grows, and the volume of abuse increases.

Part of the reason the persecution continues is in the personalities of the abusers, and it is this subject to which I will turn to next, since the key to understanding the persecution lies in understanding those who carry it out, as much as we can.

The Security Service operatives, the persecutors, are they psychopaths?

Let us first examine the definition of the term "psychopath". DSM-IV defines "anti-social personality disorder" as a "pattern of disregard for and violation of the rights of others ... deceitfulness, irritability and aggressiveness ... consistent irresponsibility and lack of remorse". The Harvard Mental Health Letter of Sept 1995 describes these people as using "charm, manipulation, intimidation and violence to control others and satisfy their own needs. Lacking in conscience and in feelings for others, they cold-bloodedly take what they want and do as they please", having "no guilt or regret".

I must say, reading this description of the condition, that it fits the persecutors perfectly. The persecutors have never shown the slightest remorse or guilt. Even when I was severely ill, they continued to abuse me. They have repeatedly blamed their actions on me, which is another trait common amongst psychopaths. They have no respect for my legal or personal rights, and they use intimidation and verbal violence.

If the MI5 operatives are psychopaths then it would explain both why the persecution started, and the degree of verbal violence. Psychopaths by definition damage other people; here, the MI5 operatives find an outlet for their personality disorder, through "cripple-kicking".

Xenophobia on the basis of mental illness, and race

My enemies have made clear many times that one of the reasons they are persecuting me is because of my admitted mental illness. However, it is my belief that they are also persecuting me because I am not of ethnic English origin, and the fact that there have been several incidents of an overtly racist nature reinforces this view.

In one case, two youths on a tube train in London made openly racist references to me as a "soft toy, not up to British Standards". Another person near my home made remarks about "Polish people". In yet another incident in Croydon, a youth made comments about "foreigners".

But the main thrust of their xenophobia is because of my mental illness. I should make clear that I do not look ill; if you met me, you would not know that I had the illness. I take a relatively low dose of medication, and feel quite well. But the persecutors have repeatedly harped on about my supposed serious mental illness; they have called me a "nutter", a "schizophrenic", etc. They have also persuaded other people to use these terms of abuse. They are able to get away with this because abusing the mentally ill is still something which is mostly acceptable in Britain; the media do it, "nutter" is not taboo in the way that "nigger" is.

Conclusion

There are several groups of people who might have wished to cause me trouble, and I still do not know who originated the persecution. Nor do I know how the originators came to be in contact with the (presumed) Security Service operatives who have been carrying out the campaign. To know conclusively why it started, we would have to know who started it, and this information is not available.

However, we can infer some things about the personalities of the persecutors from their methods, and from the degree of verbal violence they employ. It is clear that a main reason for the continuing harassment is the psychopathic disorder of the MI5 agents who carry it out. That they have never been "brought to book" for their misdeeds reinforces their belief that they do no wrong; and, unhappily, until they are brought to book, their persecution campaign looks set to continue.

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Subject: MI5 Persecution: .net Magazine Applauds my Website (11723)
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Xref: g2news1.google.com alt.conspiracy.antichrist:2827 alt.peeves:2103 rec.radio.amateur.homebrew:14721 alt.fan.nikki-dial:155 hr.org.fer:138323

MI5 Persecution: .net Magazine Applauds my Website

The March 1998 issue (number 42) of .net Magazine reviews the MI5 Persecution website describing it as an "excellent site". The webpages describe in detail the nature of my persecution since 1990 by what are believed to be elements of the UK security service.

(snip image)

You are encouraged to read the web pages which include

- a FAQ section outlining the nature of the persecutors, their methods of harassment through the media, people at work and among the general public
- an evidence section, which carries audio and video clips of media and workplace harassment, rated according to how directly I think they refer to me
- factual descriptions of the state security agencies involved
- scanned texts of the complaints I have made to media and state security

agencies involved
o   posts which have been made to netnews over the last three years on this topic

11723

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rec.radio.amateur.homebrew:14722 alt.fan.nikki-dial:156 hr.org.fer:138328
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MI5 Persecution Update: Friday 13 November, 1998

If You Intend To Reply, Please Read This

If you have any questions or observations you would like to share with me, then you are very welcome to reply to my fax number 0171-681-1190. But please.... keep your response to one page if you can! I have had several people faxing my article back to me, including one MP faxing back twenty pages. I do not know if he had anything intelligent to say in his 20-page fax because I applied judicious use of the "Delete" key on my computer. Faxes over a page or two will be deleted without being read.

MI5 Resume Hostilities in Response to these Faxes

When I wrote last weeks "MI5 Persecution Update" I remarked how quiet my life had become. No longer! MI5 have restarted hostilities with a vengeance the past week, in response I believe to the faxes I have been sending to members of the House of Commons.

On Saturday 7 November I went to Clapham Picture House cinema to see the film "Antz" (a very enjoyable film). At the cinema, I was verbally assaulted by a group of teenagers with the words "still crazy", repeated about ten times. There was a film with that name showing at the cinema, but it was clear their abuse was directed at me. I do not look ill, so why would they pick on me? answer, the incident was set-up by the persecutors. One of the teenagers also said to another, "I don't know what we're laughing at".

The following day, Sunday 8/11/98, I was on my way to play squash when I was verbally assaulted by a youth who said "it was so funny", without the slightest trace of humour. What he meant by this phrase was that was funny, and they were trying to humiliate me. I have heard this phrase "it was so funny" used at me before many, many times over the last eight and half years.

Please Encourage Keith Hill MP to Help Me

I live in a bugged house, bugged both for audio and video. My movements are monitored by MI5. The Security Service have followed me to Canada, to Poland and the Continent, to the States. I cannot work anywhere, not in England, not in Canada, because MI5 will destroy whatever employment I am able to obtain. I have asked Keith Hill MP to help me, and he has refused.

The situation is intolerable. It is Mr Hills job to help me out of this mess. So, please, as I said in the last fax a week ago: Do not waste your time returning multiple copies of my faxes to my fax mailbox, as some of you have done. Instead;

Please encourage Keith Hill M.P. to help me.

I am sorry to be using this device to encourage Mr Hill to help, but I think eight and half years are quite enough and it is time something was done to bring this matter to a close.

MI5 Persecution : BBC Newscasters Spying on my Home

This week's topic is the quite extraordinary claim that BBC newscasters such as Martyn Lewis and Michael Buerk have spied on my living room while they read the news. I currently have an advert running for the next six months in Private Eye's "Eye Say" column (at a cost of over #200) which says,"MI5 Persecution - BBC Newscasters Spying on my Home"; the story of my campaign in the Eye is on my Website at; http://www.pair.com/spook/evidence/plaint/priveye.htm

BBCs staff magazine Ariel also ran my advert "BBC Newsreaders Spying on my home" for one issue in the Personal category on 8/July/1997 before it was spotted and axed by editor Robin Reynolds; please see webpage; http://www.pair.com/spook/evidence/plaint/ariel.htm

Beginnings

The very first incident in the "MI5/BBC Persecution" occurred in June of 1990, when a newsreader reacted to what she saw in my living room at home as she read the news. My mother had brought an apple for me into the room, whereupon the newsreader smirked and giggled, apparently finding this funny. I couldn't believe what I was seeing. I carried on watching news and other television programmes to see if presenters would show signs of "interactive watching"; to my surprise, this happened again and again. Unfortunately, I did not have my wits sufficiently about me to videotape these programmes, and it is now almost impossible to obtain recordings dating back to 1990.

Most of the "TV watching" has occurred on the news, and most of it in summer 1990, although some as late as autumn 1993. My website has a few extracts of what might be politicians "getting at" me, in particular John Major and interviewer Dimbleby sharing a joke about the "Knutsford Guardian" which is almost certainly about me.

I sold my portable TV in autumn 1990 and stopped watching television regularly. I realise now that this may have been a mistake. What I should have done was to watch TV and listen to the radio, but tape-record everything and make a note of what each excerpt meant to me. I would then be in a much stronger position as regards to evidence that I am now. That is what I am trying to do now, but unsurprisingly the TV/radio presenters have stopped getting at me, now they know they are being recorded.

Examples of Media Harassment

Here are a few examples which I can still remember of media harassment;

In early 1992 I was watching the BBC news with Martyn Lewis on a small black-and-white portable television at my then home in Oxford. I threw a term of abuse at Lewis; he flinched, then gave a grin and made a comment from which I understood that he had been on my side, but might have changed his mind as a result of what Id just said to him.

Victor Lewis Smith in his TV (BBC2?) program at the end of 1993, had a taxi-driver saying, "theyre all out to get me", to which VLS replied, "but you're quite intelligent aren't you?" (what a nice chap VLS is, compliments no less!)

Paul Daniels the TV magician, sometime in 1990-92 (sorry I can't be more precise but it was so long ago), made a "crying face" and put his face in his hands, which was his way of expressing that I was frequently crying in 1990-92, and that he and other media people found my crying funny.

Kenny Everett (deceased) on some talk show, compared me to a "huge ape" who "scratches himself"; he made some other remarks about what the "ape" got up to which unfortunately I cant remember. (I remember that Everetts comments were quite sympathetic and human, but were obviously about me.)

Stephen Fry on another talkshow (Wogan I think) talking about "masturbatory fantasies", he then referred to me with the words "you prat"; I wonder if the studio audience knew what he was talking about and to whom his comments were directed?

Griff Rhys Jones on Clive James' TV show, made a "lunatic face" (wide fixed grin) to which I said to the TV that he had a "face like a horse's arse", to which Clive James said to GRJ "did you hear that?"

Crimestoppers summer 1990, remarks by a Midlands police officer on the programme, while Nick Ross was presenter (as far as I can remember). The officer talked about "in car entertainment". Nick Ross said to officer, "why don't you stop doing it?" to which he replied, "we can't while he's like this".

BBC2 Newsnight in autumn 1993 had a piece on football hooliganism. A black interviewee said apparently of the hooligans, but in fact of me; "they're just idiots, carry on with the surveillance".

There was an incident with Jonathan Ross which I remember clearly; he was on both BBC and ITV television at the same time, one (ITV I think) was recorded, the other channel was live. Ross has a speech impediment which causes him to pronounce his "r"s as "w". I sarcastically said something about "Mr Woss" to the recorded channel, then turned over to where he was live, and he repeated "Woss" with heavy emphasis and sarcasm.

On the radio, in spring 1994, Chris Tarrant made a sarcastic remark in his morning show, saying "he says were trying to kill him, we should be done for attempted manslaughter", to which another of the studio staff said, "oh no, dont say that". His comment was in reply to a comparison Id made the previous evening between my persecutors and the Polish secret police who murdered dissidents.

Martyn Lewis Denies & Lies, But Wont in Writing

In February 1997 I wrote to BBC Viewer & Listener Correspondence and asked them to investigate the claim that their newscasters had engaged in "interactive watching". They replied that they had asked Martyn Lewis and Michael Buerk whether they had engaged in such practices, and that they had both made verbal denials to VLC, but were refusing to put their denials in writing.

I can understand that they might think that if they were to make written denials to me, then many other people with my condition might write to them with similar questions. But Ive asked a couple of journalists if theyve been writing about me, theyve made written denials, Ive believed them, and I have not put their denials on my website because, since I believe their denials, it would not be relevant to publish them.

To me it looks as if Lewis and Buerk are happy to lie verbally but not in writing, because written falsehoods would place them unambiguously in the wrong, whereas they can try to talk their way out of verbal lies if they are ever caught, or perhaps even deny the verbal lies completely? If they lie without shame, then why would they have any shame about future lies about lying?

One of the strangest aspects of "TV watching" is that Buerk and Lewis have convinced themselves that their "interactive spying" is reasonable behaviour. Martyn Lewis thinks of himself as a "gentleman". He expressed in 1992 that he was "on my side". If this matter ever comes out into the open, I wonder what these newscasters will have to say for themselves, and what the British public will make of their behaviour?

Media Persecution Evidence on my Website

You may directly access the Evidence section on my website at URL;

The category currently contains four video segments, a number of audio files and three published articles. The first video of ITN's John Suchet is unfortunately a mistake - after looking at it again it is obviously not about me. The two Ken Clarke excerpts may or may not be about me; it is funny that he should keep on harping about "paranoia" and "madness", but I have given these ratings of only 30% certainty, as it is more likely that they are not about me in particular, and Clarke is simply displaying the normal prejudices against the mentally ill found in much of society.

The piece I find most interesting is the Dimbleby/John Major interview from April 1997. I have assigned this a 90% rating. Dimbleby starts by emphasising a report from the "Knutsford Guardian". Major recognizes what's going on and joins in with a falsely apologetic "heaven forfend". The emphasis is on the first syllable pronounced "nuts" in "Knutsford", which is repeated three times. Of course this is hardly anywhere near convincing evidence; the really clear items were all in 1990-92, and they are basically unobtainable now.

If you're reading the website, have a look at the two files from David Hepworth's programme on GLR radio. The first one from 21/Feb/1997 has him talking about an "embarassment" of prizes and "absolute obscene", in reference I believe to the verbal sexual abuse that was being used against me at the time (and which unfortunately is still current). In the second file dated 9/May/1997 he again talks about "absolute embarrassment" of prizes, followed by laughter. To my mind he knows I am listening to his programme, and deliberately makes these remarks for my benefit, with very little attempt to disguise their purpose.

Bernard Levin - "Fanatic's Fare for the Common Man"

On 21 September 1991 this article by Bernard Levin appeared in The Times. It is reproduced in the Evidence section of the website, or may be accessed directly at URL;

To my mind, Levin's article described the situation at the time and in particular a recent meeting with a friend, during which I for the first time admitted to someone other than my GP that I had been subjected to a conspiracy of harassment over the previous year and a half.

Levin writes about a "madman running loose about London" who "bursts into tears, and swears it is all true. And it is." I am pleased to agree with his assertion that "it is all true" because the truth is what I presented to my friend in September 1991 and it is what is being presented to the readership of these articles now.

Conclusion

The harassment, in particular media persecution, was at its strongest in 1990-92. Today, I am recording everything I watch, read and listen, and the media have pretty much given up. It is now incidents "in public" which make up what there is of MI5s persecution. But much of the material from 1990-92 still exists in archives, although the organisations which have those archives generally wont make the material available to the public, for copyright and other reasons.

MI5 can no longer employ the media to persecute me, partly because journalists now know who is behind the persecution, and also because I would publish any instances. My mistake during 1990-92 was to not record instances as they happened; Ive learned from that mistake, and know better now.

13898

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From -8106553564530455O7
X-Google-Thread: fc2a5,fbb602ed05ffd525,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
193.252.118.146.MISMATCH!news.wanadoo.fr!news.wanadoo.fr!not-for-mail
Reply-To: "Alain" <f1jfp@laposte.net>
From: "Alain" <f1jfp@laposte.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: homebrew automatic antenna tuner
Date: Sun, 25 Nov 2007 09:56:47 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2869
X-RFC2646: Format=Flowed; Original

Lines: 15
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Organization: les newsgroups par Orange
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NNTP-Posting-Host: 86.211.180.177
X-Trace: 1195980924 news.orange.fr 27394 86.211.180.177:1507
X-Complaints-To: abuse@orange.fr
Xref: g2news1.google.com rec.radio.amateur.homebrew:14723

Hello,
my project is building an automatic antenna tuner for use with my Yaesu
FT900.
could you give me any info in english or french ?
 Kit available ?

Thanks
Alain
F1JFP
f1jfp@laposte.net

From 5429489042355756574
X-Google-Thread: fc2a5,fbb602ed05ffd525
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 25 Nov 2007 11:13:41 -0600
Date: Sun, 25 Nov 2007 17:13:44 +0000
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: homebrew automatic antenna tuner
References: <4749387c$0$27394$ba4acef3@news.orange.fr>
In-Reply-To: <4749387c$0$27394$ba4acef3@news.orange.fr>
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Message-ID: <JZ-dnQPcmsLYMNTanZ2dnUVZ8rednZ2d@pipex.net>
Lines: 16
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NNTP-Posting-Host: 81.179.80.37
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e4QWVtTXmuLyP8pgGXCIYSof
X-Complaints-To: abuse@dsl.pipex.net

X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14724

Alain wrote:
> Hello,
> my project is building an automatic antenna tuner for use with my Yaesu
> FT900.
> could you give me any info in english or french ?
> Kit available ?
===================================
Alain , Could you please be a bit more specific.
What type of antenna feeder do you use or intend to use , coax or twin lead feeder.
If you use twin lead feeder there is an excellent web site for a universal tuner which can be configured for any wire antenna.

Google for PA0FRI.

Frank   GM0CSZ / KN6WH

From 3498914736891684042
X-Google-Thread: fc2a5,d3f3d79c93e8dbc0,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g21g2000hsh.googlegroups.com!not-for-mail
From: Vintage <radiovintage2000@yahoo.it>
Newsgroups: rec.radio.amateur.homebrew
Subject: Tube 7403
Date: Sun, 25 Nov 2007 11:21:20 -0800 (PST)
Organization: http://groups.google.com
Lines: 2
Message-ID: <4369ad03-fe7e-4954-bc19-152b9cc547f9@g21g2000hsh.googlegroups.com>
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Content-Transfer-Encoding: 7bit
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Complaints-To: groups-abuse@google.com
Injection-Info: g21g2000hsh.googlegroups.com; posting-host=87.6.223.15;
     posting-account=RipOkAoAAAB32s8w43jyZFhxuNS9HKXD
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
     SV1),gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14725

```
J sell Tubes New in boxed 7403 ,  if you are interested write to my
e_mail radiovintage2000@yahoo.it Tnx Frank


From -3967730038697051447
X-Google-Thread: fc2a5,fbb602ed05ffd525
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
193.252.118.146.MISMATCH!news.wanadoo.fr!news.wanadoo.fr!not-for-mail
Reply-To: "Alain" <f1jfp@laposte.net>
From: "Alain" <f1jfp@laposte.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4749387c$0$27394$ba4acef3@news.orange.fr> <JZ-
dnQPcmsLYMNTanZ2dnUVZ8rednZ2d@pipex.net>
Subject: Re: homebrew automatic antenna tuner
Date: Sun, 25 Nov 2007 23:02:12 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2869
X-RFC2646: Format=Flowed; Response
Lines: 29
Message-ID: <4749f08f$0$27411$ba4acef3@news.orange.fr>
Organization: les newsgroups par Orange
NNTP-Posting-Date: 25 Nov 2007 23:00:47 CET
NNTP-Posting-Host: 86.211.180.177
X-Trace: 1196028047 news.orange.fr 27411 86.211.180.177:2231
X-Complaints-To: abuse@orange.fr
Xref: g2news1.google.com rec.radio.amateur.homebrew:14726

thanks
I am looking about a home made tuner like an
LDG AUTOMATIC ANTENNA TUNER AT-100
for a coax feeder.
not a manual tuner.
Alain
(sorry my english is not good)


"Highland Ham" <abcgm0csz.kn6whxyz@dsl.pipex.com> a �crit dans le message de
news: JZ-dnQPcmsLYMNTanZ2dnUVZ8rednZ2d@pipex.net...
> Alain wrote:
>> Hello,
>> my project is building an automatic antenna tuner for use with my Yaesu
>> FT900.
>> could you give me any info in english or french ?
>>  Kit available ?
> ==================================
> Alain , Could you please be a bit more specific.
> What type of antenna feeder do you use or intend to use , coax or twin
> lead feeder.
```

> If you use twin lead feeder there is an excellent web site for a
> universal tuner which can be configured for any wire antenna.
>
> Google for PA0FRI.
>
> Frank   GM0CSZ / KN6WH

```
From -3701787587378466120
X-Google-Thread: fc2a5,3196fe7e1c5654e9,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i29g2000prf.googlegroups.com!not-for-
mail
From: "jrsinglesli@gmail.com" <jrsinglesli@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: For Sale -Home brew balanced line tuner - Twin Roller Inductors
Date: Sun, 25 Nov 2007 15:17:37 -0800 (PST)
Organization: http://groups.google.com
Lines: 40
Message-ID: <d365d39b-eae7-4225-83f2-e843dc884dde@i29g2000prf.googlegroups.com>
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Content-Transfer-Encoding: 7bit
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NNTP-Posting-Date: Sun, 25 Nov 2007 23:17:37 +0000 (UTC)
Complaints-To: groups-abuse@google.com
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     posting-account=9UzSrAoAAAD8nJeamJIXUUHOKU_0yXQL
User-Agent: G2/1.0
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     SV1),gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14727
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A magnificently built, balanced output antenna tuner for use with
ladder line, open wire line.

Item is for sale on e-bay Item # 290185692713 Auction ends
Sunday 12/2 at 19:00 Z

Highlights & Features of this tuner:

The twin inductor/current balun design provides a truly balanced
output.

(2) 14 uH roller inductors, coupled to a WW II vintage dial with 25

turns, 1/100 turn markings.

High/Low Impedance Switching: Switches the capacitor bank to tuner's input or output. "HI" position is used for impedances above 50 ohms; "LO" is used for impedances below 50 ohms.

Variable and fixed capacitance controls - continuous range is from 25 to 1250pf @ 4500 Vpk.

Variable capacitor dial is the classic 4-inch National Velvet Vernier.

Beautiful, real wood venier over aluminum front panel.

In Photo 1, the large coil on the right is a coaxial choke balun that goes between the output of the rig and the input of the tuner. Please indicate if you do not plan to use this coil, I will be happy to install a ferrite choke balun inside the cabinet.

Dimensions: H,W,D = 8 X 19 x 15 inches, approximate weight = 30 lbs

Good luck with the bidding,

Bob WB2ICQ

From -4903757448570100202
X-Google-Thread: fc2a5,1b691615545f88ee,start
X-Google-Attributes: gidfc2a5,public,usenet
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Path: g2news1.google.com!news3.google.com!out02a.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!news-out.readnews.com!postnews3.readnews.com!posts.news.usenetmonster.com!nnrp3.asbnva.usenetmonster.com!not-for-mail
From: "JimL" <jimbethladd@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Avatar Magnetics-- Transformers
Date: Sun, 25 Nov 2007 18:32:43 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
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Lines: 4
Message-ID: <474a047f$0$1781$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
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X-Complaints-To: killthespammer@usenetmonster.com

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Xref: g2news1.google.com rec.radio.amateur.homebrew:14728
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Greetings- is this co. still in business? Thet used to sell plate
transformers. Tnx, Jim

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From 1188730220694755634
X-Google-Thread: fc2a5,1b691615545f88ee
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d21g2000prf.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Avatar Magnetics-- Transformers
Date: Sun, 25 Nov 2007 18:11:31 -0800 (PST)
Organization: http://groups.google.com
Lines: 12
Message-ID: <4d2e158f-4c8d-4d17-850b-bbe1ec321218@d21g2000prf.googlegroups.com>
References: <474a047f$0$1781$ec3e2dad@news.usenetmonster.com>
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Content-Transfer-Encoding: 7bit
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NNTP-Posting-Date: Mon, 26 Nov 2007 02:11:31 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d21g2000prf.googlegroups.com; posting-host=71.113.61.183;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.9)
     Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14729
```

On Nov 25, 3:32 pm, "JimL" <jimbethl...@aol.com> wrote:

> Greetings- is this co. still in business? Thet used to sell plate
> transformers. Tnx, Jim

May be out of business, but you might try calling the operator of the
business, Ronald Williams, at (317) 783-1211.

One Googled reference suggested Heritage Transformers as an
alternate, Heritage Transformer Co., Inc. 13483 Leitchfield Road,
Eastview, KY 42732-9778 Tel: +1 270-862-9877 email: Ed-Heri-Tran@KVNet.org

```
From 8180110198369238776
```

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X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s6g2000prc.googlegroups.com!not-for-
mail
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: For Sale -Home brew balanced line tuner - Twin Roller Inductors
Date: Sun, 25 Nov 2007 18:32:53 -0800 (PST)
Organization: http://groups.google.com
Lines: 49
Message-ID: <0c519647-65e8-49a9-9077-9889259fd272@s6g2000prc.googlegroups.com>
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Content-Transfer-Encoding: 7bit
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NNTP-Posting-Date: Mon, 26 Nov 2007 02:32:53 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s6g2000prc.googlegroups.com; posting-host=67.59.77.133;
     posting-account=LQVNZAkAAAAHQ9vQRrCB-Qc9fLbREhw4
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X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.9)
     Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14730
```

On Nov 25, 3:17 pm, "jrsingle...@gmail.com" <jrsingle...@gmail.com>
wrote:

> A magnificently built, balanced output antenna tuner for use with
> ladder line, open wire line.
>
> Item is for sale on e-bay Item # 290185692713 Auction ends
> Sunday 12/2 at 19:00 Z
>
> Highlights & Features of this tuner:
>
> The twin inductor/current balun design provides a truly balanced
> output.
>
> (2) 14 uH roller inductors, coupled to a WW II vintage dial with 25
> turns, 1/100 turn markings.
>
> High/Low Impedance Switching: Switches the capacitor bank to
> tuner's input or output.   "HI" position is used for impedances above
> 50 ohms; "LO" is used for impedances below 50 ohms.
>
> Variable and fixed capacitance controls - continuous range is from 25
> to 1250pf @ 4500 Vpk.
>
> Variable capacitor dial is the classic 4-inch National Velvet Vernier.

>
> Beautiful, real wood venier over aluminum front panel.
>
> In Photo 1, the large coil on the right is a coaxial choke balun that
> goes between the output of the rig and the input of the tuner. Please
> indicate if you do not plan to use this coil, I will be happy to
> install a ferrite choke balun inside the cabinet.
>
> Dimensions: H,W,D = 8 X 19 x 15 inches, approximate weight = 30 lbs
>
> Good luck with the bidding,
>
> Bob WB2ICQ

Hi, Bob.
Care to tell us what frequencies,antennas and types of feed lines you
have used the tuner on? Have you ever put RF ammeters in the feed line
to see if it's really balanced?

Did you gear drive or chain drive the two coils? Looks like a nice
job!

Best regards,

Paul, KD7HB

```
From 6863061941845869651
X-Google-Thread: fc2a5,dc52757336f630f3,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w34g2000hsg.googlegroups.com!not-for-
mail
From: "jrsinglesli@gmail.com" <jrsinglesli@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Does anyone need a  Turns Counter for a Roller inductor?
Date: Sun, 25 Nov 2007 18:37:47 -0800 (PST)
Organization: http://groups.google.com
Lines: 15
Message-ID: <52797860-91f0-497b-84f3-f3631c4c52a5@w34g2000hsg.googlegroups.com>
NNTP-Posting-Host: 162.84.198.84
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1196044667 5508 127.0.0.1 (26 Nov 2007 02:37:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 26 Nov 2007 02:37:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w34g2000hsg.googlegroups.com; posting-host=162.84.198.84;
     posting-account=9UzSrAoAAAD8nJeamJIXUUHOKU_0yXQL
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
     SV1),gzip(gfe),gzip(gfe)
```

Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14731

I have a nice one (not plastic or phenolic, but made entirely of diecast aluminum) that I'm offering for $50 (includes shipping to anywhere in Continental U.S.) I can provide photos.

Turns counting dial is a very solidly built, weighs about 1.5 lbs. WWII military issue unit. Counter has 2 digits (99 turns), and displays 1/100 of a full turn.

73,

Bob WB2ICQ

H x W x D =5.75 x 3.5 x 5 inches

3/8 inch to 1/4 inch insulated shaft coupling included

From -1913712920307010299
X-Google-Thread: fc2a5,3196fe7e1c5654e9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 26 Nov 2007 08:26:54 -0600
Date: Mon, 26 Nov 2007 14:26:59 +0000
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: For Sale -Home brew balanced line tuner - Twin Roller Inductors
References: <d365d39b-eae7-4225-83f2-e843dc884dde@i29g2000prf.googlegroups.com> <0c519647-65e8-49a9-9077-9889259fd272@s6g2000prc.googlegroups.com>
In-Reply-To: <0c519647-65e8-49a9-9077-9889259fd272@s6g2000prc.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <dcadnXsBleIzStfanZ2dnUVZ8u-dnZ2d@pipex.net>
Lines: 14
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.179.80.37
X-Trace: sv3-4hE4EUVoftLVBGiqKh0H6xdgdaSHSiuiIukVTeR+fGDCTNqDgbuzz40CEuawsmR71nrJdVwhzarzCoF!sjs7ML9cjGwm6H7vSf+v/RYl3LNW7TRCOBsNImdzWTkF+W0cuS9q1C/gbs8S5VpxVf6KOlR3gCCH!VBz1mLREhpILYTJi6wLIsrFz
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36

```
Xref: g2news1.google.com rec.radio.amateur.homebrew:14732

> Hi, Bob.
> Care to tell us what frequencies,antennas and types of feed lines you
> have used the tuner on? Have you ever put RF ammeters in the feed line
> to see if it's really balanced?
>
> Did you gear drive or chain drive the two coils? Looks like a nice
> job!
===============
To check whether the feed line is truly balanced also depends on the
symmetry of the antenna. Any 'unbalance can best be determined by
clamping a RF current sensor/meter across both feed lines at the same
time, not by measuring the difference between the 2 lines.

Frank  GM0CSZ / KN6WH



From 8570757807747986775
X-Google-Thread: fc2a5,3196fe7e1c5654e9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s36g2000prg.googlegroups.com!not-for-
mail
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: For Sale -Home brew balanced line tuner - Twin Roller Inductors
Date: Mon, 26 Nov 2007 12:35:47 -0800 (PST)
Organization: http://groups.google.com
Lines: 25
Message-ID: <34accde9-aa8f-4634-aab7-c3e20328fd7d@s36g2000prg.googlegroups.com>
References: <d365d39b-eae7-4225-83f2-e843dc884dde@i29g2000prf.googlegroups.com>
     <0c519647-65e8-49a9-9077-9889259fd272@s6g2000prc.googlegroups.com>
     <dcadnXsBleIzStfanZ2dnUVZ8u-dnZ2d@pipex.net>
NNTP-Posting-Host: 72.0.177.83
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1196109347 8398 127.0.0.1 (26 Nov 2007 20:35:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 26 Nov 2007 20:35:47 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s36g2000prg.googlegroups.com; posting-host=72.0.177.83;
     posting-account=LQVNZAkAAAAHQ9vQRrCB-Qc9fLbREhw4
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.9)
     Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14733

On Nov 26, 6:26 am, Highland Ham <abcgm0csz.kn6wh...@dsl.pipex.com>
wrote:
> > Hi, Bob.
> > Care to tell us what frequencies,antennas and types of feed lines you
> > have used the tuner on? Have you ever put RF ammeters in the feed line
> > to see if it's really balanced?
>
> > Did you gear drive or chain drive the two coils? Looks like a nice
> > job!
>
> ===============
> To check whether the feed line is truly balanced also depends on the
> symmetry of the antenna. Any 'unbalance can best be determined by
> clamping a RF current sensor/meter across both feed lines at the same
> time, not by measuring the difference between the 2 lines.
>
> Frank  GM0CSZ / KN6WH

Hi, Frank.
I was just curious to see if Bob ever posted anything other than "for
sale" items. Guess not. Just looking at the pictures I would guess the
tuner doesn't work as described. I will keep my old Dentron.

73's
Paul, KD7HB


From 6671407656785483142
X-Google-Thread: fc2a5,779ea76c59b08b53,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!a39g2000pre.googlegroups.com!not-for-
mail
From: lw3eov@googlemail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Where can I get aluminium foil (0.5 cm thickness) for Homebrew
     Butterfly Capacitor
Date: Mon, 26 Nov 2007 16:25:22 -0800 (PST)
Organization: http://groups.google.com
Lines: 15
Message-ID: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>
NNTP-Posting-Host: 80.6.174.52
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1196123123 17942 127.0.0.1 (27 Nov 2007 00:25:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Nov 2007 00:25:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: a39g2000pre.googlegroups.com; posting-host=80.6.174.52;
     posting-account=SlX4XwoAAADHdeIgeHRRHKQoVBk4QGg1
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X-HTTP-UserAgent: Opera/9.21 (Windows NT 5.1; U; en),gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14734
```

Hello,

I found this very nice website with a section about Homebrew Butterfly
Capacitor with many photographs.

http://hps.infolink.com.br/py1ahd/gallery21.htm

Does anybody knows where in UK (preferrable in Dorset or London) can I
get aluminum foil, 0.5 centimeters thickness?

73's DX

Marcelo
LW3EOV/GB

From -2293707135408316224
X-Google-Thread: fc2a5,779ea76c59b08b53
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out04a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!uns-
out.usenetserver.com!news.usenetserver.com!pc02.usenetserver.com!KNOLOGY.NET-
a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew
References: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>
Subject: Re: Where can I get aluminium foil (0.5 cm thickness) for Homebrew
Butterfly Capacitor
Date: Mon, 26 Nov 2007 19:17:24 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <18a62$474b7025$18d6b40c$29682@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 26
X-Trace: 18a62474b7025bd7311a929682
Xref: g2news1.google.com rec.radio.amateur.homebrew:14735

<lw3eov@googlemail.com> wrote in message
news:95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com...
> Hello,
>
> I found this very nice website with a section about Homebrew Butterfly
> Capacitor with many photographs.
>
> http://hps.infolink.com.br/py1ahd/gallery21.htm
>

> Does anybody knows where in UK (preferrable in Dorset or London) can I
> get aluminum foil, 0.5 centimeters thickness?
>
> 73's DX
>
> Marcelo
> LW3EOV/GB
>

Hi Marcelo,
I think that 0.5 centimeter is a typo, it seems to thick, I think it should say millimeters.
As a reference compare the thickness of the brass nuts to the plate thickness.

Mike

```
From 8625310824269814565
X-Google-Thread: fc2a5,779ea76c59b08b53
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 26 Nov 2007 19:23:23 -0600
Date: Tue, 27 Nov 2007 01:23:22 +0000
From: Scott <acepilot@bloomer.net>
Reply-To:  acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where can I get aluminium foil (0.5 cm thickness) for Homebrew
  Butterfly Capacitor
References: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>
In-Reply-To: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>
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Lines: 28
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NNTP-Posting-Host: 64.33.199.218
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8M17SBcbCL0CXNvKb5UYsXVYjrXk2ud3ZKArtnuEdai5fgc+yOVozTyfalOzV2l6V6c8tKR/D/OF!
OquckWa6+g==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

```
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14736

I wouldn't call 0.5 cm "foil"...more like aluminum "plate"...that's
almost 3/16 inch thick.  Try http://www.aircraftspruce.com

Scott


lw3eov@googlemail.com wrote:
> Hello,
>
> I found this very nice website with a section about Homebrew Butterfly
> Capacitor with many photographs.
>
> http://hps.infolink.com.br/py1ahd/gallery21.htm
>
> Does anybody knows where in UK (preferrable in Dorset or London) can I
> get aluminum foil, 0.5 centimeters thickness?
>
> 73's DX
>
> Marcelo
> LW3EOV/GB
>

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)


From -8901317414556621829
X-Google-Thread: fc2a5,1b691615545f88ee
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!
newshosting.com!198.186.194.247.MISMATCH!news-xxxfer.readnews.com!news-
out.readnews.com!postnews3.readnews.com!posts.news.usenetmonster.com!
nnrp3.asbnva.usenetmonster.com!not-for-mail
From: "JimL" <jimbethladd@aol.com>
Newsgroups: rec.radio.amateur.homebrew
References: <474a047f$0$1781$ec3e2dad@news.usenetmonster.com>
<4d2e158f-4c8d-4d17-850b-bbe1ec321218@d21g2000prf.googlegroups.com>
Subject: Re: Avatar Magnetics-- Transformers
Date: Mon, 26 Nov 2007 15:24:46 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
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Lines: 18
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dkLWN=Z0@UUJ=TXooDCU_hhb6;@^JH=S;Ce@jj5NkK[
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:14737


"K7ITM" <k7itm@msn.com> wrote in message
news:4d2e158f-4c8d-4d17-850b-bbe1ec321218@d21g2000prf.googlegroups.com...
> On Nov 25, 3:32 pm, "JimL" <jimbethl...@aol.com> wrote:
>> Greetings- is this co. still in business? Thet used to sell plate
>> transformers. Tnx, Jim
>
> May be out of business, but you might try calling the operator of the
> business, Ronald Williams, at (317) 783-1211.
>
> One Googled reference suggested Heritage Transformers as an
> alternate,  Heritage Transformer Co., Inc. 13483 Leitchfield Road,
> Eastview, KY 42732-9778 Tel: +1 270-862-9877 email: Ed-Heri-
> Tran@KVNet.org
>
Thanks, Jim




From 1341772475364497078
X-Google-Thread: fc2a5,779ea76c59b08b53
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!sn-xt-sjc-02!sn-
xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where can I get aluminium foil (0.5 cm thickness) for Homebrew
     Butterfly Capacitor
Date: Mon, 26 Nov 2007 17:41:32 -0800
Organization: Home for Obscure Mythical Beings
Message-ID: <c79s15-8or.ln1@radagast.org>
References: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>
X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
X-Complaints-To: abuse@supernews.com
Lines: 61
Xref: g2news1.google.com rec.radio.amateur.homebrew:14738

In article <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>,
 <lw3eov@googlemail.com> wrote:
```

>I found this very nice website with a section about Homebrew Butterfly Capacitor with many photographs.
>
>http://hps.infolink.com.br/py1ahd/gallery21.htm
>
>Does anybody knows where in UK (preferrable in Dorset or London) can I get aluminum foil, 0.5 centimeters thickness?

I think that figure, cited on the web site, must certainly be a typographical error. There's no way that aluminum sheet which is 0.5 centimeters (5 millimeters) thick would make sense in this application.

I'd believe that it's supposed to be 0.5 mm (rather than 0.5 cm). I can't offer a specific source, since I'm in the United States, but a well-stocked hardware store might carry something of about that thickness. When I look up aluminum sheeting at www.use-enco.com (a U.S. mailorder supplier) the thinnest I see is 0.032", which is around .8 mm I believe.

I do have one specific concern about the butterfly capacitor design you're interested in. Capacitors used for resonating small magnetic transmitting loop antennas need to have low resistive losses, due to the high Q and the high currents in the loop. Butterfly capacitors are often preferred to typical stator/rotor capacitors because they have no "wiping" contacts (which have a relatively small contact area and thus potentially a relatively high resistance). The most-favored type use an all-welded or all-soldered construction, in order to ensure a low-resistance path to all of the plates.

Unfortunately, the homebrew cap you're looking at uses threaded brass rods, brass nuts, and aluminum plates. None of the connections are soldered. The connections to the stator plates will be interference/friction mating (i.e. brass nut, tightened onto aluminum plate) and I'd be concerned that the aluminum will soon oxidize and that the connections may rise in resistance, leading to increased losses over time.

This issue could be largely eliminated if you were to use sheet brass, rather than sheet aluminum, for the stator plates. You could then flux and solder the rods, nuts, and plates together (before installing the acrylic endplates, of course :-) and ensure a solid, reliable, low-resistance current path.

I think you could continue to use aluminum for the rotor plates, if you wish, since the current flow will be across the plate and there will be little or no need for current flow between adjacent plates.

If you do use aluminum plates for the stators,, I'd consider adding a thin smear of a conductive aluminum-compatible anti-oxidant grease (Penetrox, NoAlOx, or a similar product) around the hole in each stator plate, before tightening down the brass nuts. This would help make a reliable contact, and exclude oxygen from the aluminum surface.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From 6964788495108440413
X-Google-Thread: fc2a5,878120aa93557e90,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 6M amp plans
Date: Mon, 26 Nov 2007 22:02:58 -0500
X-Priority: 3
X-MSMail-Priority: Normal
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 9
Message-ID: <474b88e0$0$15420$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 75.191.181.199
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:14739

I m looking for plans for a 6m amp that uses a pair of 6146's.
I chose these tubes because I have them and already have a power supply that will work with them.
I have about 5 watts of drive and I would like to use a no-tune front end if this is possible.

Jimmie

From 6998629642258190029
X-Google-Thread: fc2a5,878120aa93557e90
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 26 Nov 2007 21:41:24 -0600
Date: Tue, 27 Nov 2007 03:41:20 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/

20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6M amp plans
References: <474b88e0$0$15420$4c368faf@roadrunner.com>
In-Reply-To: <474b88e0$0$15420$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <iOGdnYtB3cx4DNbanZ2dnUVZ_rWtnZ2d@bright.net>
Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
LouESBZ0FTv69vIgi+vMfE1Zgf+5jUod8G+yaESFhVSj0UH2yv62moZEq9brqsQJhnY8gUz0iL0+e5N!
i4ASVTKJibp7rit+H1aTXPou/KrD2CWA4HbPW2UJQt3PX1Pjhp2WsKJi38CA/nhDFcXsuQg+h9UN!
XNSmwkAPrA==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14740

Will 6146s work at 50 MHz? I know the output power in my TS-520S was already starting to drop off on 10M (about 80-85W if I recall). Even if they will work up there, you won't be getting a ton of power out. Might want to consider a 3-500Z or something like that. They are fairly "inexpensive" at http://www.rfparts.com

Scott
N0EDV

Jimmie D wrote:

> I m looking for plans for a 6m amp that uses a pair of 6146's.
> I chose these tubes because I have them and already have a power supply that
> will work with them.
> I have about 5 watts of drive and I would like to use a no-tune front end if
> this is possible.
>
> Jimmie
>
>

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

From -1668855838383240296
X-Google-Thread: fc2a5,878120aa93557e90
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!news.acm.uiuc.edu!news.xcski.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6M amp plans
Date: 27 Nov 2007 04:52:40 GMT
Organization: The National Capital FreeNet
Lines: 16
Message-ID: <fig7qo$oea$1@theodyn.ncf.ca>
References: <474b88e0$0$15420$4c368faf@roadrunner.com>
<iOGdnYtB3cx4DNbanZ2dnUVZ_rWtnZ2d@bright.net>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1196139160 25034 134.117.136.48 (27 Nov 2007 04:52:40 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 27 Nov 2007 04:52:40 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:14741

Scott (acepilot@bloomer.net) writes:
> Will 6146s work at 50 MHz? I know the output power in my TS-520S was
> already starting to drop off on 10M (about 80-85W if I recall). Even if
> they will work up there, you won't be getting a ton of power out. Might
> want to consider a 3-500Z or something like that. They are fairly
> "inexpensive" at http://www.rfparts.com
>

No, they were very common up there, and higher. Unless I'm misremembering, they were the output tube in the RCA Carphones for 144MHz (and if I'm misremembering, then it was the 2E26 which I thought was supposed be a lower power version of the 6146).

Look at any ARRL book from thirty to forty years ago, and the 6146 was common in 6 and 2 metre rigs.

Michael VE2BVW

From 1282845290510478519
X-Google-Thread: fc2a5,878120aa93557e90
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!sn-xt-sjc-02!sn-xt-sjc-10!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6M amp plans
Date: Mon, 26 Nov 2007 21:10:11 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13kn9l94tadj380@corp.supernews.com>

References: <474b88e0$0$15420$4c368faf@roadrunner.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 5
Xref: g2news1.google.com rec.radio.amateur.homebrew:14742

6146 tubes work fine on 6 meters.

Colin K7FM

From 8085748724908033561
X-Google-Thread: fc2a5,779ea76c59b08b53
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 27 Nov 2007 01:34:28 -0600
Message-ID: <52n9MXGMe8SHFADO@ifwtech.co.uk>
Date: Tue, 27 Nov 2007 07:30:20 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where can I get aluminium foil (0.5 cm thickness) for Homebrew
     Butterfly Capacitor
References: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<5rykznBxO5sA1FKkOh$HHcKQmf>)
Lines: 18
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 91.84.209.172
X-Trace: sv3-
EOs3VI17VQ4eRTuLwJQ8sjUyuPBZyHA3jr5jVCnVrY9wU38sI5Kwa02OdW6jn4Ws9Qu8eEmaXfd1hgj!
JLV3Pm1NuldqqGKjJZOmndBZYLkxsKDQqhTYKEDj7CvtR5ctsQSeRoHust0EovZiWZKjY2n/Xg==
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14743

>I found this very nice website with a section about Homebrew Butterfly

>Capacitor with many photographs.
>
>http://hps.infolink.com.br/py1ahd/gallery21.htm
>
>Does anybody knows where in UK (preferrable in Dorset or London) can I
>get aluminum foil, 0.5 centimeters thickness?

Make contact with the Flight Refuelling Amateur Radio Society
(www.frars.org.uk), based near Poole. They will tell you where to find
sheet metal in Dorset.

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From 5503628055647606974
X-Google-Thread: fc2a5,878120aa93557e90
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 27 Nov 2007 06:40:03 -0600
Date: Tue, 27 Nov 2007 12:40:02 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6M amp plans
References: <474b88e0$0$15420$4c368faf@roadrunner.com>
<iOGdnYtB3cx4DNbanZ2dnUVZ_rWtnZ2d@bright.net> <fig7qo$oea$1@theodyn.ncf.ca>
In-Reply-To: <fig7qo$oea$1@theodyn.ncf.ca>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <D5SdnTF_n6a-jdHanZ2dnUVZ_r6rnZ2d@bright.net>
Lines: 33
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-5znmKLvuO1Sg2pBW6yCUH/
NOrlMl1HbmRM8YclkOe28v+Its15Byp4iK73bBYyzOuaWPjbzYRK+4Ik0!GAGRC3bRfm7INAGusu+SlCl/
dFy83EmAuRg0YlF09OFf2WMyi5GDp/XpyBS9GEKAzxZyUm3+NAR+!wVNTCcL9vA==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35

Xref: g2news1.google.com rec.radio.amateur.homebrew:14744

Hey, good to know :) My ARRL handbooks only go back to the early
80s...still...what kind of power out could you expect at 50 MHz? Maybe
80-100 Watts? Certainly not "planet crusher" status, and I have no idea
what power level he has available to drive an amp...

Scott N0EDV

Michael Black wrote:

> Scott (acepilot@bloomer.net) writes:
>
>>Will 6146s work at 50 MHz? I know the output power in my TS-520S was
>>already starting to drop off on 10M (about 80-85W if I recall). Even if
>>they will work up there, you won't be getting a ton of power out. Might
>>want to consider a 3-500Z or something like that. They are fairly
>>"inexpensive" at http://www.rfparts.com
>>
>
> No, they were very common up there, and higher. Unless I'm misremembering,
> they were the output tube in the RCA Carphones for 144MHz (and if I'm
> misremembering, then it was the 2E26 which I thought was supposed be a
> lower power version of the 6146).
>
> Look at any ARRL book from thirty to forty years ago, and the 6146 was
> common in 6 and 2 metre rigs.
>
>   Michael VE2BVW

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

From -9128686112749143056
X-Google-Thread: fc2a5,3196fe7e1c5654e9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s8g2000prg.googlegroups.com!not-for-mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: For Sale -Home brew balanced line tuner - Twin Roller Inductors
Date: Tue, 27 Nov 2007 04:40:32 -0800 (PST)
Organization: http://groups.google.com
Lines: 15
Message-ID: <d614ffe8-887a-44c6-870f-a8a17ae7c6e8@s8g2000prg.googlegroups.com>
References: <d365d39b-eae7-4225-83f2-e843dc884dde@i29g2000prf.googlegroups.com>
     <0c519647-65e8-49a9-9077-9889259fd272@s6g2000prc.googlegroups.com>
     <dcadnXsBleIzStfanZ2dnUVZ8u-dnZ2d@pipex.net> <34accde9-aa8f-4634-aab7-

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c3e20328fd7d@s36g2000prg.googlegroups.com>
NNTP-Posting-Host: 97.84.159.244
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1196167233 19731 127.0.0.1 (27 Nov 2007 12:40:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Nov 2007 12:40:33 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s8g2000prg.googlegroups.com; posting-host=97.84.159.244;
     posting-account=K8YolwoAAADy0A2iW37gF9k2mykeXqaI
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; IEMB3; IEMB3),gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14745



>
> Hi, Frank.
> I was just curious to see if Bob ever posted anything other than "for
> sale" items. Guess not. Just looking at the pictures I would guess the
> tuner doesn't work as described. I will keep my old Dentron.
>
> 73's
> Paul, KD7HB

It is a good size example of Rich's tuner design...  Probably works..
Is not a balanced tuner, however... It is a pair of of unbalanced L-
match's with a common mode input choke...

denny / k8do



From 6880332108528302272
X-Google-Thread: fc2a5,a134d06c47e8deca,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o42g2000hsc.googlegroups.com!not-for-
mail
From: TimBob <tmize57@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Need LA1600 AM Radio IC
Date: Tue, 27 Nov 2007 06:07:11 -0800 (PST)
Organization: http://groups.google.com
Lines: 6
Message-ID: <96f1d5ab-58fe-47a9-b83b-578e8eebe0fd@o42g2000hsc.googlegroups.com>
NNTP-Posting-Host: 64.216.97.21
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1196172431 3329 127.0.0.1 (27 Nov 2007 14:07:11 GMT)
X-Complaints-To: groups-abuse@google.com
```

NNTP-Posting-Date: Tue, 27 Nov 2007 14:07:11 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o42g2000hsc.googlegroups.com; posting-host=64.216.97.21;
     posting-account=QanrjwoAAABmrK_pOucj8ub7ZL9ogeE8
User-Agent: G2/1.0
X-HTTP-Via: 1.0 ISA, 1.1 iwss:8080 (IWSS)
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT
     5.1),gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14747

I am in need of the LA1600 AM radio IC for a scanner that I'm working
on. I need one right now but would purchase several if someone has
that many. Please email me with your price!
Thanks
Tim Mize

From -4945548342474727621
X-Google-Thread: fc2a5,878120aa93557e90
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <474b88e0$0$15420$4c368faf@roadrunner.com>
<13kn9l94tadj380@corp.supernews.com>
Subject: Re: 6M amp plans
Date: Tue, 27 Nov 2007 10:18:00 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Lines: 27
Message-ID: <474c3526$0$24317$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 75.191.181.199
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:14748

"COLIN LAMB" <k7fm@teleport.com> wrote in message
news:13kn9l94tadj380@corp.supernews.com...
> 6146 tubes work fine on 6 meters.
>
> Colin K7FM
>

They have been used on 2 meters but I think with some stability problems. I was looking for some data to build one and didnt want to reinvent the wheel doing it. If I design it from scratch it will take me a year, If I take advantage of what someone else has already done it will take me a month or two.

I saw a 4cx250 amp that didnt require neutralization or front end tuning. This was because the grid was swamped with a 200 ohm resistor and driver to amp impedance matching was accomplished via a 4:1 transformer. I was wondering if I could do the same with a pair(3 or 4) of 6146s. I was also concerned with what type of output matching I would require. I know 807s on 6M will not work well with the typical Pi-net design. Another issue is what would be the drive requirements with the 200 ohm resistor or simply how much voltage do I need to drive a 6146. I have about 20 watts PEP to play around with.

Jimmie

From -5799197148742538878
X-Google-Thread: fc2a5,878120aa93557e90
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
i12g2000prf.googlegroups.com!not-for-mail
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6M amp plans
Date: Tue, 27 Nov 2007 10:13:07 -0800 (PST)
Organization: http://groups.google.com
Lines: 20
Message-ID: <f8bf452d-10e8-4517-99d5-7a4b661f77df@i12g2000prf.googlegroups.com>
References: <474b88e0$0$15420$4c368faf@roadrunner.com>
NNTP-Posting-Host: 72.0.177.83
Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1196187187 16756 127.0.0.1 (27 Nov 2007 18:13:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Nov 2007 18:13:07 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i12g2000prf.googlegroups.com; posting-host=72.0.177.83;
posting-account=LQVNZAkAAAAHQ9vQRrCB-Qc9fLbREhw4
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.9)
Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14749

On Nov 26, 7:02 pm, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
> I m looking for plans for a 6m amp that uses a pair of 6146's.
> I chose these tubes because I have them and already have a power supply that

> will work with them.
> I have about 5 watts of drive and I would like to use a no-tune front end if
> this is possible.
>
> Jimmie

Hi, Jimmie.
Look into the Heathkit Seneca transmitter. I used one for years on
both 6 meters and 2 meters. Worked lots of DX on 6 and never had a
problem. Allied also had a 6 meter amplifier using 2 6146 tubes.

Might be cheaper to find one of the Allied amps than to start from
scratch, unless you like that sort of thing!

73's
Paul, KD7HB

From -7676507703239539579
X-Google-Thread: fc2a5,779ea76c59b08b53
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s8g2000prg.googlegroups.com!not-for-mail
From: "lw3eov@googlemail.com" <lw3eov@googlemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where can I get aluminium foil (0.5 cm thickness) for Homebrew
     Butterfly Capacitor
Date: Tue, 27 Nov 2007 12:07:26 -0800 (PST)
Organization: http://groups.google.com
Lines: 65
Message-ID: <8edfcf24-59eb-4ed3-8f7a-a807a6c297b9@s8g2000prg.googlegroups.com>
References: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>
     <c79s15-8or.ln1@radagast.org>
NNTP-Posting-Host: 80.6.174.52
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1196194046 5400 127.0.0.1 (27 Nov 2007 20:07:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Nov 2007 20:07:26 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s8g2000prg.googlegroups.com; posting-host=80.6.174.52;
     posting-account=SlX4XwoAAADHdeIgeHRRHKQoVBk4QGg1
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.21 (Windows NT 5.1; U; en),gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14750

On Nov 27, 1:41 am, dpl...@radagast.org (Dave Platt) wrote:
> In article <95b4bbf3-f392-41a3-9ac3-b33c933f6...@a39g2000pre.googlegroups.com>,
>

> <lw3...@googlemail.com> wrote:
> >I found this very nice website with a section about Homebrew Butterfly
> >Capacitor with many photographs.
>
> >http://hps.infolink.com.br/py1ahd/gallery21.htm
>
> >Does anybody knows where in UK (preferrable in Dorset or London) can I
> >get aluminum foil, 0.5 centimeters thickness?
>
> I think that figure, cited on the web site, must certainly be a
> typographical error. There's no way that aluminum sheet which is 0.5
> centimeters (5 millimeters) thick would make sense in this application.
>
> I'd believe that it's supposed to be 0.5 mm (rather than 0.5 cm). I
> can't offer a specific source, since I'm in the United States, but a
> well-stocked hardware store might carry something of about that
> thickness. When I look up aluminum sheeting atwww.use-enco.com(a
> U.S. mailorder supplier) the thinnest I see is 0.032", which is around
> .8 mm I believe.
>
> I do have one specific concern about the butterfly capacitor design
> you're interested in. Capacitors used for resonating small magnetic
> transmitting loop antennas need to have low resistive losses, due to
> the high Q and the high currents in the loop. Butterfly capacitors
> are often preferred to typical stator/rotor capacitors because they
> have no "wiping" contacts (which have a relatively small contact area
> and thus potentially a relatively high resistance). The most-favored
> type use an all-welded or all-soldered construction, in order to
> ensure a low-resistance path to all of the plates.
>
> Unfortunately, the homebrew cap you're looking at uses threaded brass
> rods, brass nuts, and aluminum plates. None of the connections are
> soldered. The connections to the stator plates will be
> interference/friction mating (i.e. brass nut, tightened onto aluminum
> plate) and I'd be concerned that the aluminum will soon oxidize and
> that the connections may rise in resistance, leading to increased
> losses over time.
>
> This issue could be largely eliminated if you were to use sheet brass,
> rather than sheet aluminum, for the stator plates. You could then
> flux and solder the rods, nuts, and plates together (before installing
> the acrylic endplates, of course :-) and ensure a solid, reliable,
> low-resistance current path.
>
> I think you could continue to use aluminum for the rotor plates, if
> you wish, since the current flow will be across the plate and there
> will be little or no need for current flow between adjacent plates.
>
> If you do use aluminum plates for the stators,, I'd consider adding a
> thin smear of a conductive aluminum-compatible anti-oxidant grease
> (Penetrox, NoAlOx, or a similar product) around the hole in each
> stator plate, before tightening down the brass nuts. This would help
> make a reliable contact, and exclude oxygen from the aluminum surface.

```
>
> --
> Dave Platt <dpl...@radagast.org>                                    AE6EO
> Friends of Jade Warrior home page:  http://www.radagast.org/jade-warrior
>   I do _not_ wish to receive unsolicited commercial email, and I will
>      boycott any company which has the gall to send me such ads!

Thanks for taking the time to give me an explanation, I will try to
find sheet brass, but still don't know where in UK.


From 1344210979731550693
X-Google-Thread: fc2a5,779ea76c59b08b53
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!v4g2000hsf.googlegroups.com!not-for-
mail
From: "lw3eov@googlemail.com" <lw3eov@googlemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where can I get aluminium foil (0.5 cm thickness) for Homebrew
     Butterfly Capacitor
Date: Tue, 27 Nov 2007 12:08:56 -0800 (PST)
Organization: http://groups.google.com
Lines: 19
Message-ID: <39eee050-bc9d-4625-99ae-91c3ffa0441a@v4g2000hsf.googlegroups.com>
References: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>
     <52n9MXGMe8SHFADO@ifwtech.co.uk>
NNTP-Posting-Host: 80.6.174.52
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1196194137 5602 127.0.0.1 (27 Nov 2007 20:08:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Nov 2007 20:08:57 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: v4g2000hsf.googlegroups.com; posting-host=80.6.174.52;
     posting-account=SlX4XwoAAADHdeIgeHRRHKQoVBk4QGg1
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.21 (Windows NT 5.1; U; en),gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14751

On Nov 27, 7:30 am, Ian White GM3SEK <gm3...@ifwtech.co.uk> wrote:
> >I found this very nice website with a section about Homebrew Butterfly
> >Capacitor with many photographs.
>
> >http://hps.infolink.com.br/py1ahd/gallery21.htm
>
> >Does anybody knows where in UK (preferrable in Dorset or London) can I
> >get aluminum foil, 0.5 centimeters thickness?
>
> Make contact with the Flight Refuelling Amateur Radio Society
> (www.frars.org.uk), based near Poole. They will tell you where to find
```

> sheet metal in Dorset.
>
> --
>
> 73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)http://
www.ifwtech.co.uk/g3sek

Thanks Ian, I sent an email to M1FBB, Steve Smale, from the Flight
Refuelling Amateur Radio Society.

```
From 393807232665852374
X-Google-Thread: fc2a5,779ea76c59b08b53
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-
sjc-06!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "john jardine" <john.jardine@idnet.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where can I get aluminium foil (0.5 cm thickness) for Homebrew
Butterfly Capacitor
Date: Tue, 27 Nov 2007 21:48:29 -0000
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13kp45agnupll9a@corp.supernews.com>
References: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>
<c79s15-8or.ln1@radagast.org> <8edfcf24-59eb-4ed3-8f7a-
a807a6c297b9@s8g2000prg.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
X-Complaints-To: abuse@supernews.com
Lines: 16
Xref: g2news1.google.com rec.radio.amateur.homebrew:14752
```

<lw3eov@googlemail.com> wrote in message
news:8edfcf24-59eb-4ed3-8f7a-a807a6c297b9@s8g2000prg.googlegroups.com...
[...]
>
> Thanks for taking the time to give me an explanation, I will try to
> find sheet brass, but still don't know where in UK.

I buy Aluminium and Brass sheet from ebay. Last buy was item number
160183295588.
Not cheap though!. Probably much easier to buy a TF801 for a fiver and
dismantle/rebuild the magnificent Gold and silver plated turret capacitors.
There's also a bonus of about 2 square feet of Gold plated, brass sheeting
in there.

```
From -2825836557454086326
X-Google-Thread: fc2a5,878120aa93557e90
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe22.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <474b88e0$0$15420$4c368faf@roadrunner.com>
<13kn9l94tadj380@corp.supernews.com>
Subject: Re: 6M amp plans
Lines: 25
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <%E23j.3249$iw1.957@newsfe22.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: admin@cox.net
X-Trace: newsfe22.lga 1196209851 72.209.25.33 (Tue, 27 Nov 2007 17:30:51 MST)
NNTP-Posting-Date: Tue, 27 Nov 2007 17:30:51 MST
Organization: Cox
Date: Tue, 27 Nov 2007 19:30:50 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:14753
```

"COLIN LAMB" <k7fm@teleport.com> wrote in message
news:13kn9l94tadj380@corp.supernews.com...

> 6146 tubes work fine on 6 meters.
>
> Colin K7FM
>

Indeed. Besides the venerable Heath Seneca, Heathkit also produced a single-band six meter SSB amplifier that used a pair of 6146 tubes; it matched the Heathkit six-meter SSB phasing type transmitter. HX-30 as a WAG. They weren't big sellers unfortunately, and nice pairs bring good money from collectors. It might be worth searching BAMA for the schematic to garner some ideas regarding screen bypassing, etc.

A 5894 would be a good choice for a dual tetrode in one envelope. When I was in high school my homebrew rig ran a pair of 6146s in parallel on 6 mtr AM.

Pete k1zjh

From 8566228198224734369
X-Google-Thread: fc2a5,878120aa93557e90
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!feeder.news-
service.com!xlned.com!feeder1.xlned.com!txtfeed2.tudelft.nl!tudelft.nl!
txtfeed1.tudelft.nl!feed.xsnews.nl!border-1.ams.xsnews.nl!
border1.nntp.ams.giganews.com!nntp.giganews.com!sn-xt-ams-06!sn-xt-ams-04!sn-post-
ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6M amp plans
Date: Tue, 27 Nov 2007 21:02:21 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13kptj3thora027@corp.supernews.com>
References: <474b88e0$0$15420$4c368faf@roadrunner.com>
<13kn9l94tadj380@corp.supernews.com> <474c3526$0$24317$4c368faf@roadrunner.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 22
Xref: g2news1.google.com rec.radio.amateur.homebrew:14754

Some of the old Sideband for the Radio Amateur books published by the ARRL have some 6 meter amps using 6146 tubes. They may be in the transverter section. I know the Radio Handbooks published by Editors and Engineers has some also in the late 50's and early 60's.

Actually, it is very easy to neutralize tubes for a single band. You could cinfigure the amp in a push-pull arrangement, using cross neutralization. Wind your own coils for input and output. I am sure there are a number of circuits around, so you will not have to do anything besides find the article and then build it. 800 volts is a good voltage for the amp. You will be able to drive it with a few watts and any extra power can be used in a swamping resistor for even more stability.

Regulate the screens and you will have a nice sounding amplifier. The 4CX250 will drive with about the same power as the 6146, maybe less - but it requires special sockets, a centrifugal fan and at least 1500 volts (2,000 is better). If you want about 100 watts output, the 6146s will be fine. If you want300+ watts output, the 4CX250 tubes would be worth looking at.

73, Colin K7FM

From 7244891491508159485

```
X-Google-Thread: fc2a5,8a61552fc5d3573f,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y43g2000hsy.googlegroups.com!not-for-
mail
From: electrochap@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: B&K precision scope model 1470
Date: Thu, 29 Nov 2007 05:28:51 -0800 (PST)
Organization: http://groups.google.com
Lines: 7
Message-ID: <03c4c5ef-8fc7-40f4-b77e-9b97220d249f@y43g2000hsy.googlegroups.com>
NNTP-Posting-Host: 216.13.46.154
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1196342932 6261 127.0.0.1 (29 Nov 2007 13:28:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 29 Nov 2007 13:28:52 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y43g2000hsy.googlegroups.com; posting-host=216.13.46.154;
     posting-account=F2WS-goAAAB9rUHi5UGFXMQO-b0Mrmow
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322),gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14755
```

Hi everybody, I've just put my hands on this "great condition" scope except it doesn't sweep. I am used to work on audio equipment like amps, tuners, etc but this is my first scope and I don't know where to start. I guess it is where some DC level goes up and down like stairs (ther is a name I don't remember. the ramp ?)... Anyhow, would anyone have the schematics or the service manual of this unit ? It would be really appreciated !!!

```
From -9009822092332488240
X-Google-Thread: fc2a5,779ea76c59b08b53
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
x69g2000hsx.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where can I get aluminium foil (0.5 cm thickness) for Homebrew
     Butterfly Capacitor
Date: Thu, 29 Nov 2007 06:34:22 -0800 (PST)
Organization: http://groups.google.com
Lines: 32
Message-ID: <1c6ffaad-e543-4037-991b-1fb775c7915a@x69g2000hsx.googlegroups.com>
References: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>
     <c79s15-8or.ln1@radagast.org>
```

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NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1196346863 16712 127.0.0.1 (29 Nov 2007 14:34:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 29 Nov 2007 14:34:23 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: x69g2000hsx.googlegroups.com; posting-host=170.121.15.35;
     posting-account=ejVFEQkAAACbZJGL2-mJUQ4KdeDSH0i2
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14756
```

On Nov 26, 8:41 pm, dpl...@radagast.org (Dave Platt) wrote:

> Unfortunately, the homebrew cap you're looking at uses threaded brass rods, brass nuts, and aluminum plates. None of the connections are soldered. The connections to the stator plates will be interference/friction mating (i.e. brass nut, tightened onto aluminum plate) and I'd be concerned that the aluminum will soon oxidize and that the connections may rise in resistance, leading to increased losses over time.
>
> This issue could be largely eliminated if you were to use sheet brass, rather than sheet aluminum, for the stator plates. You could then flux and solder the rods, nuts, and plates together (before installing the acrylic endplates, of course :-) and ensure a solid, reliable, low-resistance current path.

In the real world, most non-miniature variable capacitors were made with spacers and plates that weren't soldered all together, and generally didn't use star washers or anything except at the connecting posts. But these are generally either all-brass, all-aluminum, all-steel, etc., and not a mismash of different materials. You don't explicitly say so, Dave, but are you implying that it's the dissimilar materials that are the problem, or that it's the use of aluminum? My personal taste would be to make it out of all-brass.

After the 50's, for the miniature variable capacitors, they seem to be made out of material that has been silver-soldered together without any explicit spacer components. (Maybe brazed or spot-welded, in some cases.) This seems to be either an improvement made for VHF/UHF work (remember when 50MHz was UHF?) or an admission that using spacers doesn't make economic sense when components are so tiny.

Tim.

```
From -7781865933299659015
X-Google-Thread: fc2a5,779ea76c59b08b53
X-Google-Attributes: gidfc2a5,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!newshub.sdsu.edu!sn-xt-sjc-03!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where can I get aluminium foil (0.5 cm thickness) for Homebrew Butterfly Capacitor
Date: Thu, 29 Nov 2007 12:05:58 -0800
Organization: Home for Obscure Mythical Beings
Message-ID: <6mi325-28i.ln1@radagast.org>
References: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com> <c79s15-8or.ln1@radagast.org> <1c6ffaad-e543-4037-991b-1fb775c7915a@x69g2000hsx.googlegroups.com>
X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
X-Complaints-To: abuse@supernews.com
Lines: 56
Xref: g2news1.google.com rec.radio.amateur.homebrew:14757

In article <1c6ffaad-e543-4037-991b-1fb775c7915a@x69g2000hsx.googlegroups.com>,
Tim Shoppa <shoppa@trailing-edge.com> wrote:

>In the real world, most non-miniature variable capacitors were made with spacers and plates that weren't soldered all together, and generally didn't use star washers or anything except at the connecting posts. But these are generally either all-brass, all-aluminum, all-steel, etc., and not a mismash of different materials. You don't explicitly say so, Dave, but are you implying that it's the dissimilar materials that are the problem, or that it's the use of aluminum?

It's a combination of both, I think.

A cap of this sort would work quite nicely indeed if it were made out of aluminum, and welded together. I believe that such capacitors are available even today (perhaps on special order). Aluminum's conductivity is certainly high enough, and the thin layer of aluminum oxide on the surface would have no effect on the cap's usability.

The biggest problem with a hybrid aluminum/brass capacitor is that it's hard to get a reliable, low-resistance bond between the two metals. It's certainly not impossible - there are some fluxes and solders which can bond to aluminum - but it's not necessarily easy for the hobbyist to make this work reliably.

Non-welded aluminum air-variable capacitors seem to work find in most applications... but in most applications, the currents flowing through the cap are relatively low, the circuit impedances are relatively high, and thus the resistive losses in the plate/spacer connections are negligible. In magloop transmitting antennas, the radiation resistance is small (often just a fraction of an ohm) and the resistive losses in the tuning capacitor can significantly effect the efficiency of the antenna.

```
>                                                                My
>personal taste would be to make it out of all-brass.
>
>After the 50's, for the miniature variable capacitors, they seem to be
>made out of material that has been silver-soldered together without
>any explicit spacer components. (Maybe brazed or spot-welded, in some
>cases.) This seems to be either an improvement made for VHF/UHF work
>(remember when 50MHz was UHF?) or an admission that using spacers
>doesn't make economic sense when components are so tiny.

The highest-quality seem to use silver-plated brass, soldered or
welded together.  This would assure a good electrical connection, and
I believe that this combination of materials and methods also helps
reduce the tendency of the capacitor to drift in value as a result of
temperature changes, or exhibit microphonic effects.  People who build
low-drift VFOs seem to favor this style of air-variable capacitor.

--
Dave Platt <dplatt@radagast.org>                                  AE6EO
Friends of Jade Warrior home page:  http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!


From 4170295481421706128
X-Google-Thread: fc2a5,8a61552fc5d3573f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 29 Nov 2007 17:33:02 -0600
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups: rec.radio.amateur.homebrew
References: <03c4c5ef-8fc7-40f4-b77e-9b97220d249f@y43g2000hsy.googlegroups.com>
Subject: Re: B&K precision scope model 1470
Date: Thu, 29 Nov 2007 18:33:02 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <3omdnf40oeKz0dLanZ2dnUVZ_vOlnZ2d@comcast.com>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.199.254.204
X-Trace: sv3-a9DrYTN35hCMWXm/p6tS2xfaN5WgW+435/
dEJeHJxxCqStxJbus+K3oDK4KLENjQuhFofzSgi9Aa9ik!
eNJEVpDTLir5Zp0igcEiZdEYv+HA1yRnCSWlq2hVVgtN6qIc6sOb8d38fcllr3+H1xsmlvIyWwrD!
FPkCH98BfW0cB8cMHQh6xquVlfUfqVo=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
```

X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14758

<electrochap@gmail.com> wrote in message
news:03c4c5ef-8fc7-40f4-b77e-9b97220d249f@y43g2000hsy.googlegroups.com...
> Hi everybody, I've just put my hands on this "great condition" scope
> except it doesn't sweep. I am used to work on audio equipment like
> amps, tuners, etc but this is my first scope and I don't know where to
> start. I guess it is where some DC level goes up and down like stairs
> (ther is a name I don't remember. the ramp ?)... Anyhow, would
> anyone have the schematics or the service manual of this unit ? It
> would be really appreciated !!!

Get a copy of the full manual, or if you prefer, just the schematic and parts list from http://www.bkmanuals.com/1401-1500.htm.

--
Dave M
MasonDG44 at comcast dot net (Just substitute the appropriate characters in the address)

"In theory, there isn't any difference between theory and practice. In practice, there is." - Yogi Berra

---

From 8138915920778463986
X-Google-Thread: fc2a5,c460f7e204afeba5
X-Google-Thread: 115730,c460f7e204afeba5
X-Google-Attributes: gidfc2a5,gid115730,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!news.germany.com!proxad.net!feeder1-2.proxad.net!193.252.118.146.MISMATCH!news.wanadoo.fr!news.wanadoo.fr!not-for-mail
From: "Robert Lacoste" <use-contact-at-www-alciom-com-for-email>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.equipment
References: <47348811$0$27377$ba4acef3@news.orange.fr>
<1194629024.203841.115070@57g2000hsv.googlegroups.com>
<4739c856$0$25954$ba4acef3@news.orange.fr>
Subject: Boonton probe repaired (Re: RF replacement diode for Boonton detector ?)
Date: Fri, 30 Nov 2007 09:50:49 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 071129-0, 29/11/2007), Outbound message
X-Antivirus-Status: Clean
Lines: 73
Message-ID: <474fcee8$0$5087$ba4acef3@news.orange.fr>

Organization: les newsgroups par Orange
NNTP-Posting-Date: 30 Nov 2007 09:50:48 CET
NNTP-Posting-Host: 82.127.112.2
X-Trace: 1196412648 news.orange.fr 5087 82.127.112.2:10626
X-Complaints-To: abuse@orange.fr
Xref: g2news1.google.com rec.radio.amateur.homebrew:14759
sci.electronics.equipment:9698

Hi all,

Just as a followup : We have repaired our 51013 Boonton diode probe using a double MA4E501 diode from Siemens/MA-COM.

Procedure : probe dismounted, old diodes desoldered (warning : on the N connector side there is a disk capacitor nearly invisible between the diodes' ends and the connector). Common pin of the MA4E501 cut at the shortest and directly soldered on the disk capacitor fitted on the N connector pin, both other pins directly soldered on the 160 ohm serial resistors installed in the original probe serially with the diodes.

Results are not as perfect as the original specifically paired and selected diodes from Boonton (understand : repaired probe doesn't work at 18GHz), however the probe is reasonnably good up to 5GHz : Measured return loss is under 25dB up to 3GHz, under 20dB up to 4GHz, but is above 8dB at 8GHz. We don't have a directionnal coupler between 4 and 8GHz in hands so I don't know the exact limit but it seems to be around 5-6GHz. Sensitivity is around -40dBm, in line with the original.

Of course the probe now needs to be recalibrated, but it is back to life ! For those who are interested we have written a small summary of the repair, with a couple of pictures. It is in french but I guess that pictures will be understandable worldwide ;+). The network analysis plots show the measurement on a reference high end 51081 probe (left) and the repaired 51013 probe (right). See www.alciom.com/fr/download/reparation51013.pdf

Now if anyone have a calibration procedure for the boonton probe I would be interested... The user manual of the milliwattmeter explain how to enter calibration factors for a probe, but no how to measure them...

Friendly yorus,
Robert Lacoste
www.alciom.com

"Robert Lacoste" <use-contact-at-www-alciom-com-for-email> a �crit dans le message de news: 4739c856$0$25954$ba4acef3@news.orange.fr...
> "K7ITM" <k7itm@msn.com> a �crit dans le message de news:
> 1194629024.203841.115070@57g2000hsv.googlegroups.com...
>> On Nov 9, 8:17 am, "Robert Lacoste" <use-contact-at-www-alciom-com-for-
>> email> wrote:
>>> Hi,
>>>

```
>>> I have a faulty Boonton 51013 power sensor, which is a diode based probe
>>> for
>>> the 4220 RF milliwattmeters. And one of the two detection diodes is out.
>>> Of
>>> course both diodes would probably need to be replaced and full
>>> calibration
>>> to be done again; but do you have any idea for a potential replacement
>>> diode, not too difficult to find and working up to 10 or 20GHz ?
>>>
>>> Thanks for your ideas. Experiences of 510XX sensors repairs would be
>>> also
>>> welcome, as the diodes are packed in a copper film...
>>>
>>> Robert
>>
>> Don't know specifically about your Boonton, but would a diode from the
>> Avago HSCH-53xx series be useful?  Some are rated for use up to
>> 26GHz.  They are small, of course, about .006 inches wide and .027
>> inches long (with leads that could perhaps be cut to yield perhaps .
>> 020 inch net length, if absolutely necessary).
>>
>> Cheers,
>> Tom
>
> Thanks Tom.
>
```

```
From 1464324540035245492
X-Google-Thread: fc2a5,8a61552fc5d3573f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: B&K precision scope model 1470
Date: Fri, 30 Nov 2007 01:19:06 -0800
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.11.30.09.19.06.418884@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <03c4c5ef-8fc7-40f4-b77e-9b97220d249f@y43g2000hsy.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 12
Organization: Octanews
NNTP-Posting-Date: 30 Nov 2007 03:19:09 CST
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:14760
```

Hi,

Why pay for what you can have for free?

http://bama.edebris.com/manuals/b&k/1460/

I have both the 1460 and 1470 and the 1470 is just a dual trace 1460. So,
other than the chopper stuff, both are the same.

Cheers,

--
Gregg

```
From 385572263918979323
X-Google-Thread: fc2a5,8a61552fc5d3573f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
j20g2000hsi.googlegroups.com!not-for-mail
From: electrochap@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: B&K precision scope model 1470
Date: Fri, 30 Nov 2007 05:20:04 -0800 (PST)
Organization: http://groups.google.com
Lines: 18
Message-ID: <385a74f8-cf21-4396-91cf-30b705da00a5@j20g2000hsi.googlegroups.com>
References: <03c4c5ef-8fc7-40f4-b77e-9b97220d249f@y43g2000hsy.googlegroups.com>
     <pan.2007.11.30.09.19.06.418884@localhost.localdomain>
NNTP-Posting-Host: 216.13.46.154
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1196428804 1717 127.0.0.1 (30 Nov 2007 13:20:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 30 Nov 2007 13:20:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: j20g2000hsi.googlegroups.com; posting-host=216.13.46.154;
     posting-account=F2WS-goAAAB9rUHi5UGFXMQO-b0Mrmow
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322),gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14761
```

On 30 nov, 04:19, geek <g...@localhost.localdomain> wrote:

> Hi,
>
> Why pay for what you can have for free?
>
> http://bama.edebris.com/manuals/b&k/1460/
>
> I have both the 1460 and 1470 and the 1470 is just a dual trace 1460. So,
> other than the chopper stuff, both are the same.

>
> Cheers,
> __
> Gregg

Thanks Gregg, Part #s and voltages are on the image as well ...
Great !

Thanks a lot !

From 8502501363098380507
X-Google-Thread: fc2a5,878120aa93557e90
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out02a.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <474b88e0$0$15420$4c368faf@roadrunner.com>
Subject: Re: 6M amp plans
Date: Fri, 30 Nov 2007 10:01:51 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Lines: 24
Message-ID: <475025d7$0$2483$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 75.191.181.199
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:14762

"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
news:474b88e0$0$15420$4c368faf@roadrunner.com...
>I m looking for plans for a 6m amp that uses a pair of 6146's.
> I chose these tubes because I have them and already have a power supply
> that will work with them.
> I have about 5 watts of drive and I would like to use a no-tune front end
> if this is possible.
>
> Jimmie
>

I breadboarded up a 6146 6M amp using an HW101 power supply and it seem to work but then I realized(my wife reminded me) that it needed to run off of 12 volts on occasion. This got me to thinking that I could maybe convert an old CB amp to work on 6M. I have a dozen or so old dead ones I bought for parts. One of the thigs I noticed right off the bat after doing some testing is that the existing transformers in the amp dont work worth a hoot on 6M. I am totally ignorant when it comes to designing these things and I was wondering what type of cores I would need to build a 100 watt transformer.

Jimmie

From 6036263816515342771
X-Google-Thread: fc2a5,cbe50388a44661ff,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wn13feed!worldnet.att.net!bgtnsc05-
news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: MANUALS: HEATH, HALLI, MFJ + STUFF
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <HU%3j.3246$MJ6.1926@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: 81588fb3937b4b68a7518a95c692d9b4
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1196460711
81588fb3937b4b68a7518a95c692d9b4 (Fri, 30 Nov 2007 22:11:51 GMT)
NNTP-Posting-Date: Fri, 30 Nov 2007 22:11:51 GMT
Organization: AT&T Worldnet
Date: Fri, 30 Nov 2007 22:11:51 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:14763

Manuals : copies and originals for Heathkit, Hallicrafters, MFJ, others to come, and other stuff: clearing out:

See at :   http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

Tnx Heytubeguy

From -512310667436012848
X-Google-Thread: fc2a5,878120aa93557e90
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l16g2000hsf.googlegroups.com!not-for-mail
From: jimmie68@gmail.com
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: 6M amp plans
Date: Fri, 30 Nov 2007 19:08:08 -0800 (PST)
Organization: http://groups.google.com
Lines: 31
Message-ID: <3c7f9319-12d1-4e4c-9459-ec4f61e304c2@l16g2000hsf.googlegroups.com>
References: <474b88e0$0$15420$4c368faf@roadrunner.com>
<475025d7$0$2483$4c368faf@roadrunner.com>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1196478488 5749 127.0.0.1 (1 Dec 2007 03:08:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 1 Dec 2007 03:08:08 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l16g2000hsf.googlegroups.com; posting-host=204.108.8.5;
posting-account=GlR3DwoAAAAic5TIBZ0eTX4vIIcIllQf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14764

On Nov 30, 10:01 am, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
> "Jimmie D" <GFEN...@carolina.rr.com> wrote in message
>
> news:474b88e0$0$15420$4c368faf@roadrunner.com...
>
> >I m looking for plans for a 6m amp that uses a pair of 6146's.
> > I chose these tubes because I have them and already have a power supply
> > that will work with them.
> > I have about 5 watts of drive and I would like to use a no-tune front end
> > if this is possible.
>
> > Jimmie
>
> I breadboarded up a 6146 6M amp using an HW101 power supply and it seem to
> work but then I realized(my wife reminded me) that it needed to run off of
> 12 volts on occasion. This got me to thinking that I could maybe convert an
> old CB amp to work on 6M. I have a dozen or so old dead ones I bought for
> parts. One of the thigs I noticed right off the bat after doing some testing
> is that the existing transformers in the amp dont work worth a hoot on 6M. I
> am totally ignorant when it comes to designing these things and I was
> wondering what type of cores I would need to build a 100 watt transformer.
>
> Jimmie

By not working worth a hoot I mean that after making a 4:1 transformer
using the existing cores and a 12 ohm dummy load I got a full scale
SWR reading on 50Mhs and a nearly flat reading on 28Mhz as expected.
After doing some research I am guessing that these cores are made out
of type 61 material and they should be made of type 67 for 50Mhz.

Jimmie

```
From 7105425310458503290
X-Google-Thread: fc2a5,a838e84431828ed4,start
X-Google-Thread: 107ada,a838e84431828ed4,start
X-Google-Thread: 10bf43,a838e84431828ed4,start
X-Google-Thread: 10e8ad,a838e84431828ed4,start
X-Google-Thread: 106d41,a838e84431828ed4,start
X-Google-Attributes:
gidfc2a5,gid107ada,gid10bf43,gid10e8ad,gid106d41,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out01b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!spln!
extra.newsguy.com!newsp.newsguy.com!news2
From: MI5Victim@mi5.gov.uk
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.rad
io.amateur.space,rec.radio.cb
Subject: MI5 Persecution: BBC Newscasters Spying on my Home (1241)
Followup-To:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.rad
io.amateur.space,rec.radio.cb,uk.misc
Date: 1 Dec 2007 11:08:27 GMT
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 255
Message-ID: <m07110111081772@4ax.com>
NNTP-Posting-Host: paafefebfff000000a038ab09d7cf514f31e783bc912ece8f.newsdawg.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:14765
rec.radio.amateur.misc:39338 rec.radio.amateur.policy:99939
rec.radio.amateur.space:1220 rec.radio.cb:40888
```

MI5 Persecution Update: Friday 13 November, 1998

If You Intend To Reply, Please Read This

If you have any questions or observations you would like to share with me, then you are very welcome to reply to my fax number 0171-681-1190. But please.... keep your response to one page if you can! I have had several people faxing my article back to me, including one MP faxing back twenty pages. I do not know if he had anything intelligent to say in his 20-page fax because I applied judicious use of the "Delete" key on my computer. Faxes over a page or two will be deleted without being read.

MI5 Resume Hostilities in Response to these Faxes

When I wrote last weeks "MI5 Persecution Update" I remarked how quiet my life had become. No longer! MI5 have restarted hostilities with a vengeance the past week, in response I believe to the faxes I have been sending to members of the House of Commons.

On Saturday 7 November I went to Clapham Picture House cinema to see the film "Antz" (a very enjoyable film). At the cinema, I was verbally assaulted by a group of teenagers with the words "still crazy", repeated about ten times. There was a film with that name showing at the cinema, but it was clear their abuse was directed at me. I do not look ill, so why would they pick on me? answer, the incident was set-up by the persecutors. One of the teenagers also said to another, "I don't know what we're laughing at".

The following day, Sunday 8/11/98, I was on my way to play squash when I was verbally assaulted by a youth who said "it was so funny", without the slightest trace of humour. What he meant by this phrase was that was funny, and they were trying to humiliate me. I have heard this phrase "it was so funny" used at me before many, many times over the last eight and half years.

Please Encourage Keith Hill MP to Help Me

I live in a bugged house, bugged both for audio and video. My movements are monitored by MI5. The Security Service have followed me to Canada, to Poland and the Continent, to the States. I cannot work anywhere, not in England, not in Canada, because MI5 will destroy whatever employment I am able to obtain. I have asked Keith Hill MP to help me, and he has refused.

The situation is intolerable. It is Mr Hills job to help me out of this mess. So, please, as I said in the last fax a week ago: Do not waste your time returning multiple copies of my faxes to my fax mailbox, as some of you have done. Instead;

Please encourage Keith Hill M.P. to help me.

I am sorry to be using this device to encourage Mr Hill to help, but I think eight and half years are quite enough and it is time something was done to bring this matter to a close.

MI5 Persecution : BBC Newscasters Spying on my Home

This week's topic is the quite extraordinary claim that BBC newscasters such as Martyn Lewis and Michael Buerk have spied on my living room while they read the news. I currently have an advert running for the next six months in Private Eye's "Eye Say" column (at a cost of over #200) which says,"MI5 Persecution - BBC Newscasters Spying on my Home"; the story of my campaign in the Eye is on my Website at; http://www.pair.com/spook/evidence/plaint/priveye.htm

BBCs staff magazine Ariel also ran my advert "BBC Newsreaders Spying on my home" for one issue in the Personal category on 8/July/1997 before it was spotted and axed by editor Robin Reynolds; please see webpage; http://www.pair.com/spook/evidence/plaint/ariel.htm

Beginnings

The very first incident in the "MI5/BBC Persecution" occurred in June of

1990, when a newsreader reacted to what she saw in my living room at home as she read the news. My mother had brought an apple for me into the room, whereupon the newsreader smirked and giggled, apparently finding this funny. I couldn't believe what I was seeing. I carried on watching news and other television programmes to see if presenters would show signs of "interactive watching"; to my surprise, this happened again and again. Unfortunately, I did not have my wits sufficiently about me to videotape these programmes, and it is now almost impossible to obtain recordings dating back to 1990.

Most of the "TV watching" has occurred on the news, and most of it in summer 1990, although some as late as autumn 1993. My website has a few extracts of what might be politicians "getting at" me, in particular John Major and interviewer Dimbleby sharing a joke about the "Knutsford Guardian" which is almost certainly about me.

I sold my portable TV in autumn 1990 and stopped watching television regularly. I realise now that this may have been a mistake. What I should have done was to watch TV and listen to the radio, but tape-record everything and make a note of what each excerpt meant to me. I would then be in a much stronger position as regards to evidence that I am now. That is what I am trying to do now, but unsurprisingly the TV/radio presenters have stopped getting at me, now they know they are being recorded.

Examples of Media Harassment

Here are a few examples which I can still remember of media harassment;

In early 1992 I was watching the BBC news with Martyn Lewis on a small black-and-white portable television at my then home in Oxford. I threw a term of abuse at Lewis; he flinched, then gave a grin and made a comment from which I understood that he had been on my side, but might have changed his mind as a result of what Id just said to him.

Victor Lewis Smith in his TV (BBC2?) program at the end of 1993, had a taxi-driver saying, "theyre all out to get me", to which VLS replied, "but you're quite intelligent aren't you?" (what a nice chap VLS is, compliments no less!)

Paul Daniels the TV magician, sometime in 1990-92 (sorry I can't be more precise but it was so long ago), made a "crying face" and put his face in his hands, which was his way of expressing that I was frequently crying in 1990-92, and that he and other media people found my crying funny.

Kenny Everett (deceased) on some talk show, compared me to a "huge ape" who "scratches himself"; he made some other remarks about what the "ape" got up to which unfortunately I cant remember. (I remember that Everetts comments were quite sympathetic and human, but were obviously about me.)

Stephen Fry on another talkshow (Wogan I think) talking about "masturbatory fantasies", he then referred to me with the words "you prat"; I wonder if the studio audience knew what he was talking about and to whom his comments were directed?

Griff Rhys Jones on Clive James' TV show, made a "lunatic face" (wide fixed grin) to which I said to the TV that he had a "face like a horse's arse", to which Clive James said to GRJ "did you hear that?"

Crimestoppers summer 1990, remarks by a Midlands police officer on the programme, while Nick Ross was presenter (as far as I can remember). The officer talked about "in car entertainment". Nick Ross said to officer, "why don't you stop doing it?" to which he replied, "we can't while he's like this".

BBC2 Newsnight in autumn 1993 had a piece on football hooliganism. A black interviewee said apparently of the hooligans, but in fact of me; "they're just idiots, carry on with the surveillance".

There was an incident with Jonathan Ross which I remember clearly; he was on both BBC and ITV television at the same time, one (ITV I think) was recorded, the other channel was live. Ross has a speech impediment which causes him to pronounce his "r"s as "w". I sarcastically said something about "Mr Woss" to the recorded channel, then turned over to where he was live, and he repeated "Woss" with heavy emphasis and sarcasm.

On the radio, in spring 1994, Chris Tarrant made a sarcastic remark in his morning show, saying "he says were trying to kill him, we should be done for attempted manslaughter", to which another of the studio staff said, "oh no, dont say that". His comment was in reply to a comparison Id made the previous evening between my persecutors and the Polish secret police who murdered dissidents.

Martyn Lewis Denies & Lies, But Wont in Writing

In February 1997 I wrote to BBC Viewer & Listener Correspondence and asked them to investigate the claim that their newscasters had engaged in "interactive watching". They replied that they had asked Martyn Lewis and Michael Buerk whether they had engaged in such practices, and that they had both made verbal denials to VLC, but were refusing to put their denials in writing.

I can understand that they might think that if they were to make written denials to me, then many other people with my condition might write to them with similar questions. But Ive asked a couple of journalists if theyve been writing about me, theyve made written denials, Ive believed them, and I have not put their denials on my website because, since I believe their denials, it would not be relevant to publish them.

To me it looks as if Lewis and Buerk are happy to lie verbally but not in writing, because written falsehoods would place them unambiguously in the wrong, whereas they can try to talk their way out of verbal lies if they are ever caught, or perhaps even deny the verbal lies completely? If they lie without shame, then why would they have any shame about future lies about lying?

One of the strangest aspects of "TV watching" is that Buerk and Lewis have convinced themselves that their "interactive spying" is reasonable behaviour. Martyn Lewis thinks of himself as a "gentleman". He expressed in 1992 that he was "on my side". If this matter ever comes out into the open, I wonder what these newscasters will have to say for themselves, and what the British public will make of their behaviour?

Media Persecution Evidence on my Website

You may directly access the Evidence section on my website at URL;

The category currently contains four video segments, a number of audio files and three published articles. The first video of ITN's John Suchet is unfortunately a mistake - after looking at it again it is obviously not about me. The two Ken Clarke excerpts may or may not be about me; it is funny that he should keep on harping about "paranoia" and "madness", but I have given these ratings of only 30% certainty, as it is more likely that they are not about me in particular, and Clarke is simply displaying the normal prejudices against the mentally ill found in much of society.

The piece I find most interesting is the Dimbleby/John Major interview from April 1997. I have assigned this a 90% rating. Dimbleby starts by emphasising a report from the "Knutsford Guardian". Major recognizes what's going on and joins in with a falsely apologetic "heaven forfend". The emphasis is on the first syllable pronounced "nuts" in "Knutsford", which is repeated three times. Of course this is hardly anywhere near convincing evidence; the really clear items were all in 1990-92, and they are basically unobtainable now.

If you're reading the website, have a look at the two files from David Hepworth's programme on GLR radio. The first one from 21/Feb/1997 has him talking about an "embarassment" of prizes and "absolute obscene", in reference I believe to the verbal sexual abuse that was being used against me at the time (and which unfortunately is still current). In the second file dated 9/May/1997 he again talks about "absolute embarrassment" of prizes, followed by laughter. To my mind he knows I am listening to his programme, and deliberately makes these remarks for my benefit, with very little attempt to disguise their purpose.

Bernard Levin - "Fanatic's Fare for the Common Man"

On 21 September 1991 this article by Bernard Levin appeared in The Times. It is reproduced in the Evidence section of the website, or may be accessed directly at URL;

To my mind, Levin's article described the situation at the time and in particular a recent meeting with a friend, during which I for the first time admitted to someone other than my GP that I had been subjected to a conspiracy of harassment over the previous year and a half.

Levin writes about a "madman running loose about London" who "bursts into tears, and swears it is all true. And it is." I am pleased to agree with his assertion that "it is all true" because the truth is what I presented to my friend in September 1991 and it is what is being presented to the readership of these articles now.

Conclusion

The harassment, in particular media persecution, was at its strongest in 1990-92. Today, I am recording everything I watch, read and listen, and the media have pretty much given up. It is now incidents "in public" which make up what there is of MI5s persecution. But much of the material from 1990-92 still exists in archives, although the organisations which have those archives generally wont make the material available to the public, for copyright and other reasons.

MI5 can no longer employ the media to persecute me, partly because journalists now know who is behind the persecution, and also because I would publish any instances. My mistake during 1990-92 was to not record instances as they happened; Ive learned from that mistake, and know better now.

1241

```
From -3896372892122216103
X-Google-Thread: fc2a5,779ea76c59b08b53
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 02 Dec 2007 15:01:57 -0600
From: "gb" <w9nogbspam@arrlspamno.net>
Newsgroups: rec.radio.amateur.homebrew
References: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>
Subject: Re: Where can I get aluminium foil (0.5 cm thickness) for Homebrew
Butterfly Capacitor
Date: Sun, 2 Dec 2007 15:01:55 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3205
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3205
X-RFC2646: Format=Flowed; Original
Message-ID: <laSdnYPDfLLYgM7anZ2dnUVZ_qWtnZ2d@comcast.com>
Lines: 27
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NNTP-Posting-Host: 24.14.244.109
X-Trace: sv3-gGZ7yaIP4sSyPXQcFfBYy7PppoQsq953lW8k/
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T+20hyPQq0we3Cj0w2zW8dz+26uO+BwvkC1Fgg347FtSI5+wr2T4Nku4f3XPFipVkZOc2dizbdy8!
cZ9958Hl9P4V1qh4wkIXa9S+9JyCvA==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
```

X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14766

<lw3eov@googlemail.com> wrote in message news:95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com...
> Hello,
>
> I found this very nice website with a section about Homebrew Butterfly
> Capacitor with many photographs.
>
> http://hps.infolink.com.br/py1ahd/gallery21.htm
>
> Does anybody knows where in UK (preferrable in Dorset or London) can I
> get aluminum foil, 0.5 centimeters thickness?
>
> 73's DX
>
> Marcelo
> LW3EOV/GB
>

Small Parts, Inc in Florida carries Aluminum sheet, as well as K&S Engineering/Metals.

Most well stock hobby stores (R/C models, model RR, etc.) will have that in stock!!

w9gb

From -2219941230388222044
X-Google-Thread: fc2a5,a355a1b7b5491592,start
X-Google-Thread: 1159c6,a355a1b7b5491592,start
X-Google-Attributes: gidfc2a5,gid1159c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 02 Dec 2007 20:22:59 -0600
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
From: gwhite@alum.mit.edu (Doug White)
Subject: "MARTHA" RF/Microwave CAD Using APL -- Free!
X-Newsreader: News Xpress 2.01
Date: Mon, 03 Dec 2007 02:22:59 GMT
Message-ID: <w5mdnZM9gtYe9c7anZ2dnUVZ_tXinZ2d@rcn.net>
Lines: 41
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 146.115.115.96

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X-Trace: sv3-L7RLDhBOe9pnOlfCYMxZ/
8aaZAnIXiz8Py3WlaOlVfS8qLNXZD4tK2mFnquvY57ebTY7KnmiUixab3g!
t8TpFUmV4XO3rtkzs6FLi3+4a752ZViSwNoz5/zrh5BOTV7Y9FywMdp+7iWQOJPEpCVn7Vbe9AxR!3IE=
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14767 sci.electronics.cad:8905
```

"MARTHA" is a unique circuit analysis software package that was originally developed at MIT in the early 1970's. Rather than a "canned" analysis package that only performs pre-programmed circuit analysis operations, it is a circuit-description extension to the APL computer programming language. It will perform analysis of linear networks like other CAD packages, but by coupling it with APL, it can be used to perform custom analysis and synthesis of circuits that are difficult or impossible to do in other CAD environments.

MARTHA was originally marketed as a mainframe time-share product. It was used at MIT for teaching circuit theory, and by engineers at MIT Lincoln Laboratory to design RF & microwave circuits for radar and communications satellites. Lincoln Laboratory used the capabilities of MARTHA to create circuit synthesis programs (mostly for microstrip and LC filters), in addition to expanding the analysis capabilities of MARTHA.

MARTHA never caught on as a commercial product, but it continued to thrive at Lincoln Lab even after competing PC products like Touchstone became available. MARTHA and the other Lincoln software were ported to the PC, and additional features (like better graphics) were added. All of the Lincoln software was cleaned up and documented to create LLAMA (Lincoln Laboratory Advanced MARTHA Applications), which is still in use today.

MIT Prof. Paul Penfield (MARTHA's original author) and Doug White (prime mover behind the LLAMA effort) have obtained permission to release MARTHA, LLAMA and the associated manuals into the public domain. The initial release is set up to run using a free DOS-based APL interpreter. The APL section of the web site includes this software, along with installation instructions and documentation on using APL. Additional information and all of the necessary files are available at the web site:
 http://www.marthallama.org.

MARTHA is NOT for everyone. It doesn't have fancy schematic capture or PCB layout features. It also requires learning at least a little about the APL computer language (which could be considered a worthwhile exercise in its own right). There is no canned installation routine that will magically get it all up & running on your computer, but there are procedures & batch files to try to make it as painless as possible.

Doug White

```
From 7985173273943140400
X-Google-Thread: fc2a5,a8c0bef4a0360fc6,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!news1.optus.net.au!optus!
newsfeeder.syd.optusnet.com.au!news.optusnet.com.au!not-for-mail
From: "Tony Burch" <tony@burched.com.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Soldering surface mount etc, new set of videos
Date: Mon, 3 Dec 2007 17:18:41 +1100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 17
Message-ID: <47539fbf$0$4014$afc38c87@news.optusnet.com.au>
NNTP-Posting-Host: 211.30.81.181
X-Trace: 1196662719  4014 211.30.81.181
X-Original-Bytes: 1100
Xref: g2news1.google.com rec.radio.amateur.homebrew:14768

Hi all,

I have just released a new site about low cost soldering techniques
http://SuperSolderingSecrets.com

It's a set of videos intended for hobbyists and small companies.

There is a free membership with 5 videos on hand soldering quad flat packs.
There is also a "gold" membership with videos on "toaster oven soldering",
"frying pan solder pot soldering", removal of flux residue etc.

Cheers,

Anthony Burch
```

```
From 3452855480903111186
X-Google-Thread: fc2a5,a355a1b7b5491592
X-Google-Thread: 1159c6,a355a1b7b5491592
X-Google-Attributes: gidfc2a5,gid1159c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e10g2000prf.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew, sci.electronics.cad
Subject: Re: "MARTHA" RF/Microwave CAD Using APL -- Free!
```

```
Date: Sun, 2 Dec 2007 23:07:10 -0800 (PST)
Organization: http://groups.google.com
Lines: 54
Message-ID: <0ece0b16-a812-4a5f-aa76-3f588f9cea08@e10g2000prf.googlegroups.com>
References: <w5mdnZM9gtYe9c7anZ2dnUVZ_tXinZ2d@rcn.net>
NNTP-Posting-Host: 71.113.61.183
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1196665630 7209 127.0.0.1 (3 Dec 2007 07:07:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 3 Dec 2007 07:07:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e10g2000prf.googlegroups.com; posting-host=71.113.61.183;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14769 sci.electronics.cad:8906

On Dec 2, 6:22 pm, gwh...@alum.mit.edu (Doug White) wrote:
> "MARTHA" is a unique circuit analysis software package that was
> originally developed at MIT in the early 1970's.  Rather than a "canned"
> analysis package that only performs pre-programmed circuit analysis
> operations, it is a circuit-description extension to the APL computer
> programming language.  It will perform analysis of linear networks like
> other CAD packages, but by coupling it with APL, it can be used to
> perform custom analysis and synthesis of circuits that are difficult or
> impossible to do in other CAD environments.
>
> MARTHA was originally marketed as a mainframe time-share product.  It was
> used at MIT for teaching circuit theory, and by engineers at MIT Lincoln
> Laboratory to design RF & microwave circuits for radar and communications
> satellites.  Lincoln Laboratory used the capabilities of MARTHA to create
> circuit synthesis programs (mostly for microstrip and LC filters), in
> addition to expanding the analysis capabilities of MARTHA.
>
> MARTHA never caught on as a commercial product, but it continued to
> thrive at Lincoln Lab even after competing PC products like Touchstone
> became available.  MARTHA and the other Lincoln software were ported to
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> information and all of the necessary files are available at the web site:
```

> http://www.marthallama.org.
>
> MARTHA is NOT for everyone. It doesn't have fancy schematic capture or
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> the APL computer language (which could be considered a worthwhile
> exercise in its own right). There is no canned installation routine that
> will magically get it all up & running on your computer, but there are
> procedures & batch files to try to make it as painless as possible.
>
> Doug White

Thanks to you and to Prof. Penfield for your work in making these programs available to us. I'll set aside time to do a proper installation (the web pages make it sound like I'll need to pay attention to what I'm doing...). This is kind of a "blast from the past." I recall using MARTHA a few times back around 1972 on our APL terminal. We also used APL for exactly what your web pages say it's good for: quick development of what in Fortran of the day would have been ugly, since we had problem statements already in matrix form.

Cheers,
Tom

```
From 5589781667792209165
X-Google-Thread: fc2a5,4a0ec1656d67aeea,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!
news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 03 Dec 2007 03:33:03 -0600
From: miken <mnewman@clear.net.nz>
Newsgroups: rec.radio.amateur.homebrew
Subject: I need an XR-215 PLL chip
Date: Mon, 03 Dec 2007 22:33:10 +1300
Message-ID: <l5j7l39vtvip2tvdsvjvpht5bbca25oum7@4ax.com>
X-Newsreader: Forte Free Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Original-NNTP-Posting-Host: 121-72-89-34.dsl.telstraclear.net
X-Original-Trace: 3 Dec 2007 22:33:00 +1300, 121-72-89-34.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 6
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-AuthenticatedUsername: news10531
X-Trace: sv3-9aCM4chkdOG9JYCix0umQiVoST7MexqrVRA7jPGbiob7wNjInnMB8FTUFljGnqhtNog/
7RzZFW/6hYb!3ask2f/PgP93Tl2WInbPlEMABu89j7RxLDbXraE1ZuB+9EWMa1VQ+pHt/
DRHKR5i6zujHh8C/g7f!sZx3m9M=
X-Complaints-To: abuse@clear.net.nz
```

X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14770

Hi all   I need an XR-215 PLL chip.

I would be grateful if anyone has supplier information. Have searched
on google with no result.

73 de miken,   zl1bnb

From -3136112209666757503
X-Google-Thread: fc2a5,a355a1b7b5491592
X-Google-Thread: 1159c6,a355a1b7b5491592
X-Google-Attributes: gidfc2a5,gid1159c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-05!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Jim Thompson <To-Email-Use-The-Envelope-Icon@My-Web-Site.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Subject: Re: "MARTHA" RF/Microwave CAD Using APL -- Free!
Date: Mon, 03 Dec 2007 07:17:10 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <3r38l39mtlg321o01m20kfa1o1lktrk7kh@4ax.com>
References: <w5mdnZM9gtYe9c7anZ2dnUVZ_tXinZ2d@rcn.net>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 58
Xref: g2news1.google.com rec.radio.amateur.homebrew:14771 sci.electronics.cad:8908

On Mon, 03 Dec 2007 02:22:59 GMT, gwhite@alum.mit.edu (Doug White) wrote:

>"MARTHA" is a unique circuit analysis software package that was
>originally developed at MIT in the early 1970's. Rather than a "canned"
>analysis package that only performs pre-programmed circuit analysis
>operations, it is a circuit-description extension to the APL computer
>programming language. It will perform analysis of linear networks like
>other CAD packages, but by coupling it with APL, it can be used to
>perform custom analysis and synthesis of circuits that are difficult or
>impossible to do in other CAD environments.
>
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>used at MIT for teaching circuit theory, and by engineers at MIT Lincoln
>Laboratory to design RF & microwave circuits for radar and communications
>satellites. Lincoln Laboratory used the capabilities of MARTHA to create

```
>circuit synthesis programs (mostly for microstrip and LC filters), in
>addition to expanding the analysis capabilities of MARTHA.
>
>MARTHA never caught on as a commercial product, but it continued to
>thrive at Lincoln Lab even after competing PC products like Touchstone
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>
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>The APL section of the web site includes this software, along with
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>
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>the APL computer language (which could be considered a worthwhile
>exercise in its own right).  There is no canned installation routine that
>will magically get it all up & running on your computer, but there are
>procedures & batch files to try to make it as painless as possible.
>
>Doug White

Say HI to Paul for me.  He was one of my instructors in VI-B at MIT,
and I knew him later as a board member of GenRad.

                                        ...Jim Thompson
--
|  James E.Thompson, P.E.                           |    mens     |
|  Analog Innovations, Inc.                         |     et      |
|  Analog/Mixed-Signal ASIC's and Discrete Systems  |    manus    |
|  Phoenix, Arizona            Voice:(480)460-2350  |             |
|  E-mail Address at Website     Fax:(480)460-2142  |  Brass Rat  |
|       http://www.analog-innovations.com           |    1962     |

         America: Land of the Free, Because of the Brave


From -8633409351964160945
X-Google-Thread: fc2a5,4a0ec1656d67aeea
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 03 Dec 2007 21:00:16 -0600
From: "DaveM" <masondg4499@comcast99.net>
```

Newsgroups: rec.radio.amateur.homebrew
References: <l5j7l39vtvip2tvdsvjvpht5bbca25oum7@4ax.com>
Subject: Re: I need an XR-215 PLL chip
Date: Mon, 3 Dec 2007 22:00:15 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <4_ednXvOdetdX8nanZ2dnUVZ_hadnZ2d@comcast.com>
Lines: 23
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.199.254.204
X-Trace: sv3-
tnU91TmHQPOSOlWOlRm9xzujvo66nmlRTzCSWpXZeEDMyUTi3EPIAqhllFIjfod2ejcAxQPHXDkULRD!
C8/uokkDawQdZawKwB9rE9N1oZKzUEIR4q2QeCr3FQjiFGPDJqdnxqySxBip4TIS0mIpNDehWYuT!
OMyEIpoJV/3TRNUhcW0shvvBWKNCgTk=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14772

"miken" <mnewman@clear.net.nz> wrote in message
news:l5j7l39vtvip2tvdsvjvpht5bbca25oum7@4ax.com...
> Hi all   I need an XR-215 PLL chip.
>
> I would be grateful if anyone has supplier information. Have searched
> on google with no result.
>
> 73 de miken,   zl1bnb

http://www.unicornelectronics.com/IC/EXAR.html
I'd recommend emailing for stock before sending money.

--
Dave M
MasonDG44 at comcast dot net (Just substitute the appropriate characters in the
address)

"In theory, there isn't any difference between theory and practice. In
practice, there is." - Yogi Berra

From -1844644594627355522
X-Google-Thread: fc2a5,4a0ec1656d67aeea
X-Google-Attributes: gidfc2a5,public,usenet

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!
news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 04 Dec 2007 00:39:17 -0600
From: miken <mnewman@clear.net.nz>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I need an XR-215 PLL chip
Date: Tue, 04 Dec 2007 19:39:23 +1300
Message-ID: <let9l3t2m28n8fb0gkj90lssdpap8be257@4ax.com>
References: <l5j7l39vtvip2tvdsvjvpht5bbca25oum7@4ax.com>
<4_ednXvOdetdX8nanZ2dnUVZ_hadnZ2d@comcast.com>
X-Newsreader: Forte Free Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Original-NNTP-Posting-Host: 121-72-69-59.dsl.telstraclear.net
X-Original-Trace: 4 Dec 2007 19:39:14 +1300, 121-72-69-59.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 19
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-AuthenticatedUsername: news10531
X-Trace: sv3-
B3BmJOiqgMEUN7qAP6rOgUY3E2x8SMVDQnCoHgDMKyFUCMHYyEydgd3Fg9ig8zdNJguTIPY3Wih3kzn!
U69cUjdcpyNmZFUxIeRGnYeRkRTNA+ki6nPam2qzhK7vvEPoqV3MgJYa06WDXbgi/x+Z99l0DPDG!y/
QzoCE=
X-Complaints-To: abuse@clear.net.nz
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14773

On Mon, 3 Dec 2007 22:00:15 -0500, "DaveM" <masondg4499@comcast99.net>
wrote:

>"miken" <mnewman@clear.net.nz> wrote in message
>news:l5j7l39vtvip2tvdsvjvpht5bbca25oum7@4ax.com...
>> Hi all   I need an XR-215 PLL chip.
>>
>> I would be grateful if anyone has supplier information.  Have searched
>> on google with no result.
>>
>> 73 de miken,   zl1bnb
>
>
>
>http://www.unicornelectronics.com/IC/EXAR.html
>I'd recommend emailing for stock before sending money.
```

Tnx Dave, I'll try that,
73 de miken,   zl1bnb

```
From -7082264564804682183
X-Google-Thread: fc2a5,779ea76c59b08b53
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 04 Dec 2007 15:28:35 -0600
Date: Tue, 04 Dec 2007 21:29:05 +0000
From: charlie <wehatespam@wymsey.co.uk>
User-Agent: Thunderbird 1.5.0.12 (X11/20060911)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where can I get aluminium foil (0.5 cm thickness) for Homebrew
  Butterfly Capacitor
References: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>
In-Reply-To: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>
X-Enigmail-Version: 0.95.2
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-ID: <gMWdnbZF1ZceW8jaRVnyvQA@pipex.net>
Lines: 44
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NNTP-Posting-Host: 85.210.130.119
X-Trace: sv3-CjqQptL8hk/BsxtUS0rR/ijQ8NvMbSgPQJkypgCISpt2/NKxF8tbwfNzbROf/
UDtCbItvGYTxlF0XbO!
4TV+Azoy6HTj1WfWPLivWRJM6LqRA4C8jOi7I2T6nS1idWTZxgs4jpbu8EVjP+sJ5qlsbcUDF61T!
UITL1TZr5gXnTns=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14774
```

lw3eov@googlemail.com wrote:

> Hello,
>
> I found this very nice website with a section about Homebrew Butterfly
> Capacitor with many photographs.
>
> http://hps.infolink.com.br/py1ahd/gallery21.htm
>
> Does anybody knows where in UK (preferrable in Dorset or London) can I
> get aluminum foil, 0.5 centimeters thickness?
>
> 73's DX
>

> Marcelo
> LW3EOV/GB
>

Marcello,

Talk to Squires Models & Craft Tools, 100 London Rd, Bognor Regis,
West Sussex, PO21 1DD. Tel: 01243 842424, Fax: 01243 842525

They have:

Brass sheet, 4" x 10" X 0.005, 0.010, 0.015, 0.032, inches thick

Copper sheet, 4" x 10" X 0.025 inches thick

Aluminium sheet 4" x 10" X 0.016, 0.032, 0.064, inches thick.

Sorry, I will leave you do convert to metric :)

I think that you will find this kind of material at any decent model shop.

Rapid Electronics, www.rapidonline.com , has aluminium sheet 0.5m x 0.5m x 0.8mm & 1.2mm, also 0.1mm brass sheet x A4 or A3.

Charlie.

--
M0WYM
www.radiowymsey.org

From 1032148757094457922
X-Google-Thread: fc2a5,a8c0bef4a0360fc6
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d4g2000prg.googlegroups.com!not-for-mail
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Soldering surface mount etc, new set of videos
Date: Tue, 4 Dec 2007 18:42:18 -0800 (PST)
Organization: http://groups.google.com
Lines: 20
Message-ID: <885b6413-162a-4aec-828a-498e990c3108@d4g2000prg.googlegroups.com>
References: <47539fbf$0$4014$afc38c87@news.optusnet.com.au>
NNTP-Posting-Host: 67.59.77.133
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1196822539 20578 127.0.0.1 (5 Dec 2007 02:42:19 GMT)
X-Complaints-To: groups-abuse@google.com

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NNTP-Posting-Date: Wed, 5 Dec 2007 02:42:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d4g2000prg.googlegroups.com; posting-host=67.59.77.133;
     posting-account=LQVNZAkAAAAHQ9vQRrCB-Qc9fLbREhw4
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14775

On Dec 2, 10:18 pm, "Tony Burch" <t...@burched.com.au> wrote:
> Hi all,
>
> I have just released a new site about low cost soldering techniqueshttp://
SuperSolderingSecrets.com
>
> It's a set of videos intended for hobbyists and small companies.
>
> There is a free membership with 5 videos on hand soldering quad flat packs.
> There is also a "gold" membership with videos on "toaster oven soldering",
> "frying pan solder pot soldering", removal of flux residue etc.
>
> Cheers,
>
> Anthony Burch

Why do you think all this is so "secret"? My assemblers do all you
mention as well as LGA chips and BGA and all using lead-free solder.
Can you do that?

Paul



From -4709440567888705591
X-Google-Thread: fc2a5,61612928ba9c6220,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d61g2000hsa.googlegroups.com!not-for-
mail
From: electrochap@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: 2SB545A
Date: Tue, 4 Dec 2007 20:21:16 -0800 (PST)
Organization: http://groups.google.com
Lines: 7
Message-ID: <506398ea-281e-40f0-9571-84c5ec4a29e1@d61g2000hsa.googlegroups.com>
NNTP-Posting-Host: 216.13.46.154
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1196828477 7814 127.0.0.1 (5 Dec 2007 04:21:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 5 Dec 2007 04:21:17 +0000 (UTC)
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Complaints-To: groups-abuse@google.com
Injection-Info: d61g2000hsa.googlegroups.com; posting-host=216.13.46.154;
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET
     CLR 1.1.4322),gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14776

Hi everybody, I now owned a magnificent Sansui AU-6900 with its tuner
TU-5900. Wow ! WHat a kit. Damping factor 80 !!! But.... I have a
problem on one amp side. I can't adjust bias correctly. After changing
many parts , pre drivers, resistors, I come to the fact that I need to
replace 2 power transistors but I can't find them anywhere in a store
here in Montreal. WOULD ANYBODY HAVE SOME 2SB545A WASTING TIME
SOMEWHERE ? I would give good money for them...


From -7536845980186404552
X-Google-Thread: fc2a5,61612928ba9c6220
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: 2SB545A
Date: Tue, 04 Dec 2007 22:14:48 -0800
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.12.05.06.14.48.803153@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <506398ea-281e-40f0-9571-84c5ec4a29e1@d61g2000hsa.googlegroups.com>
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Lines: 9
Organization: Octanews
NNTP-Posting-Date: 05 Dec 2007 00:14:49 CST
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:14777

Hi,

If worst comes to worst, it crosses to a NTE88. That might be easier to
find.

Cheers,

--
Gregg



From -8670666013455422244
X-Google-Thread: fc2a5,a8c0bef4a0360fc6
```

```
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y5g2000hsf.googlegroups.com!not-for-
mail
From: bigorangebus <bigorangebus@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Soldering surface mount etc, new set of videos
Date: Wed, 5 Dec 2007 03:34:31 -0800 (PST)
Organization: http://groups.google.com
Lines: 162
Message-ID: <4c44d49a-f145-49de-b2f6-0fe28e12523d@y5g2000hsf.googlegroups.com>
References: <47539fbf$0$4014$afc38c87@news.optusnet.com.au>
     <885b6413-162a-4aec-828a-498e990c3108@d4g2000prg.googlegroups.com>
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Content-Transfer-Encoding: 7bit
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NNTP-Posting-Date: Wed, 5 Dec 2007 11:34:32 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y5g2000hsf.googlegroups.com; posting-host=88.111.38.6;
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14778
```

On Dec 5, 2:42 am, "pdr...@coinet.com" <co_far...@yahoo.com> wrote:

> On Dec 2, 10:18 pm, "Tony Burch" <t...@burched.com.au> wrote:
>
> > Hi all,
>
> > I have just released a new site about low cost soldering techniqueshttp://SuperSolderingSecrets.com
>
> > It's a set of videos intended for hobbyists and small companies.
>
> > There is a free membership with 5 videos on hand soldering quad flat packs.
> > There is also a "gold" membership with videos on "toaster oven soldering",
> > "frying pan solder pot soldering", removal of flux residue etc.
>
> > Cheers,
>
> > Anthony Burch
>
> Why do you think all this is so "secret"? My assemblers do all you
> mention as well as LGA chips and BGA and all using lead-free solder.
> Can you do that?
>
> Paul

Well this is a discussion group, so the disadvantage of posting on here if you're trying to sell something is that you put the whole topic up for comment!

So why not put forward ideas.

The biggest mistake any beginner makes is to try to solder surface mount components like they are through hole, and many people think you just need a very fine tip soldering iron (which just results in little heat transfer and frustrating soldering by the way).

Your biggest friend is flux, I prefer a flux pen as its controllable. Some people use spray flux but personally I find that messy, though it works.   Flux is such a good friend because it helps the solder adhere. More importantly it gives the solder mobility, which means that you can remove solder bridges between pins just by applying flux and putting a clean soldering iron on.

Always start with larger components. Because if you get it wrong the easiest way of removing larger components (without a desoldering station) is with a heat gun (hot air paint stripper). And this will blow away any smaller components you already have placed....very annoying.

Before you do any surface mount soldering always use the flux pen to flux the pad. If you have a home made PCB its good to abraid the surface with fine emery paper, clean with flux cleaner (a electrical cleaning solvent spray usually has a brush with it) before fluxing, and if you really want the best tin by running the soldering over the fluxed pads with a small amount of solder. If you tin the pads you need to make sure you dont have an uneven surface as surface mount components need to be flat to solder correctly. In this case put more of the trusty flux on the pads...get some de-solder braid, run it around the pads hot with the soldering iron on it, this will flatten the solder again. Usually with a clean pad without tin is fine if you've cleaned and fluxed, but sometimes on a home made bare copper board applying heat to adjacent pins causes the already cleaned pads to oxidise so they need cleaning again.

SOICs: These are easy, they are relatively large pitch. After preparing the pads, put a little bit of solder on you iron, place the chip on the pads, hold it still and dab one corner pin with the iron...this is just enough to fix the device in place. Go to the other corner and dab again. Then run the flux pen over the other pins and solder as you would any component, just use solder sparingly. If you end up with a solder bridge, make sure the tip of the soldering iron is clean, reflux the pins that have a poblem, and move the soldering iron tip down onto the joint and then away across the board. Surface tension and the flux will pull solder from the bridge to the iron. If theres still solder bridging, reflux, clean the iron on the sponge and do it again. The flux is useless when it burns off, so dont hold the iron on the joint for ages...or it wont work, you will get a knack for it...just long enough to melt the solder and a little bit.

Solderpaste method: Solderpaste is available in small syringes and comes with a small tip that allows you to put down a fine bead of solder. I find you need to widen it a little, but if you overdo it you will end up with huge amounts of uncontrolled paste all over your board and you will have to buy another tip. Solderpaste is expensive, but it goes a long way. Frustratingly it also "goes off" and gets unusable after a time and when exposed to the air, so if you havent use it in a week you may find the nozzle blocked, put some tape over the end in an attempt to stop air getting in. Your supposed to keep solder paste in the fridge...though I dont.

On you SOIC, flux the pad, wait a moment so the flux isnt wet, then dab a small bit of solder paste on the pads. Again you will need some practice. Then carefully place the soic the pads, hold and put the tip of your soldering iron on a corner joint. You should be able to run round all the joints now and each pad usually solders without bridging as theres lots of flux in the paste aswell. (the reason for pre-fluxing the pin is that it makes it slightly sticky, otherwise the bead of paste can slide off the pad!).

Using solderpaste and a small heat gun: Pros use a hot air station which can control the heat and amount of blow, and have a small nozzle to direct the blow. If you have access to one of these you turn the blow down low...otherwise the gael wil blow your components off the board. With the component sitting on the solder paste prepared pads just apply heat until the solder melts. You can also use those portable soldering irons with the heat blow option tip, this has a catalyst so there is no flame (you dont want a flame on your board of course).

Soldering larger QFP type devices: You can use the solderpaste and the above method for soldering these too. However, here is a soldering iron method I learned from a guy who re-worked PCBs on a production line.
Prepare the pads with flux. Place the part down, hold it and use the iron to tack down the corner pins. This is important...if you get the 1st tack wrong you can heat it up and remove the component...if you get more than one area partially soldered you will need a hot air heat gun to remove it!!!
Once the part is positioned and tacked, go over the pins with the flux pen. Then take the hot soldering iron (you need a good 25W+ iron with a flat tip for max heat transfer as this method relys on not holding the iron in a fixed spot).
Orient the board with a strip of pins on the right (if your right handed), put the iron on the top with a little solder and then win a smooth movement take the solder tip back and forth (left to right) across the pins as you move smoothly and fairly fast down the row of pins. You will notice the surface tension of the solder and the flux cause the solder blob to move down with the iron. The left right movement allows the solder to move up over the pad and pin, while the movement down the row pulls the solder blob down leaving cleanly soldered pins. It looks like a machines had soldered them.

Now often you will leave solder bridges where the flux has got overheated and stops working, and there will usually be a blob at the bottom of the row...but dont worry. Now reflux the row, clean the soldering iron tip and place the tip on the solder bridge moving it off to the right one the solder has melted. Clean the tip reflux and do again until the bridge is removed. You may have to do this several times if you put too much solder on in the first place.
You can also start with solder paste on the pads (rather than using normal solder), but sometimes I find you can get bridges under the chip if you do this. After doing all the pins inspect with a magnifying glass.
This is how I put down all fine pitch devices, its a knack but can be very fast and clean when you get it sorted.

Small devices like 0602, 0805 components: You can solder these with a soldering iron and tweezers, though it is fiddly. You can to hold the device down with tweezers and dab the end with the soldering iron.
Put solder paste on the pad makes it easier...though I find this frustrating as most of the time the heat moves through the component and you end up with it sitting on the end of your soldering iron tip!
Better to flux and dab a small amount of solder paste on the pads, place the part on the pads (it will stay there due to the tackiness of the paste) then use gas soldering iron on hot air blow (no flame!) to gently melt the solder. Better, use a hot air soldering station with the air volume turned down low.
You cant use a paint stripper type hot air gun for this as there is too much air coming out and your parts will all be blown away!

I hope thats useful. Any one else have tips and tricks for this?

Andy

```
From 5530062437312749260
X-Google-Thread: fc2a5,61612928ba9c6220
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
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From: electrochap@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2SB545A
Date: Wed, 5 Dec 2007 13:53:04 -0800 (PST)
Organization: http://groups.google.com
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NNTP-Posting-Date: Wed, 5 Dec 2007 21:53:04 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d4g2000prg.googlegroups.com; posting-host=216.13.46.154;
     posting-account=F2WS-goAAAB9rUHi5UGFXMQO-b0Mrmow
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     CLR 1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14779

On 5 d=E9c, 01:14, geek <g...@localhost.localdomain> wrote:
> Hi,
>
> If worst comes to worst, it crosses to a NTE88. That might be easier to
> find.
>
> Cheers,
> __
> Gregg

I know but I really want the original drivers. These NTE are drivers
that CAN replace but doesn't necessarily carry same exact
specifications. I want to still use the other set for the negative
side so I want matched pairs.


From -8895821778345575707
X-Google-Thread: fc2a5,a355a1b7b5491592
X-Google-Thread: 1159c6,a355a1b7b5491592
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s36g2000prg.googlegroups.com!not-for-
mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew, sci.electronics.cad
Subject: Re: "MARTHA" RF/Microwave CAD Using APL -- Free!
Date: Wed, 5 Dec 2007 17:55:59 -0800 (PST)
Organization: http://groups.google.com
Lines: 70
Message-ID: <2933aefb-5594-450d-b14c-c532788ac93b@s36g2000prg.googlegroups.com>
References: <w5mdnZM9gtYe9c7anZ2dnUVZ_tXinZ2d@rcn.net>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1196906160 11886 127.0.0.1 (6 Dec 2007 01:56:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 6 Dec 2007 01:56:00 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s36g2000prg.googlegroups.com; posting-host=207.200.116.11;
     posting-account=0Q4qJQoAAAB4vjIbnPnpY8JqAcYZv7Os
User-Agent: G2/1.0
```

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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 5.1;
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     spider-ntc-tc07.proxy.aol.com[CFC87047] (Prism/1.2.1), HTTP/1.1
     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:14780 sci.electronics.cad:8919
```

From: gwhite@alum.mit.edu (Doug White) on Sun, Dec 2 2007 6:22 pm

> MARTHA is NOT for everyone. It doesn't have fancy schematic capture or PCB layout features. It also requires learning at least a little about the APL computer language (which could be considered a worthwhile exercise in its own right). There is no canned installation routine that will magically get it all up & running on your computer, but there are procedures & batch files to try to make it as painless as possible.

That's interesting that the 35-year-old A Programming Language (APL) is still around somewhere. I learned of it way back when in '72 while employed by RCA Corporation...and getting interested in programming after a very satisfactory and productive introduction to 'LECAP,'
RCA's
frequency-domain version of the original ECAP from IBM.

However, today's desktop PCs have MORE speed, mass memory, RAM storage than any mainframe computer of 35 years ago at less than $1K US new off-the-shelf (today's Fry's Electronics ad had a PC with LCD monitor for $400). We don't really need Interpreter-based high-level languages now. My circa-1979 Apple][+ needed those to work with its fantastic clock rate of a whole MegaHertz and 48 KBytes of RAM! My 4-year-old PC box with 1 GHz clock rate, 100 MHz RAM access rate, 2 MB RAM, and small 40 GB hard disk can handle 50-node SPICE circuits with perhaps 2000 time increments in a couple of seconds...and store the results in a file. <shrug>

Three decades ago the UC Berkeley group came up with SPICE and made the core of that program FREE, no restrictions (source code available for the cost of paper reproduction and mailing). SPICE derivatives are the electronics industry standard today. Linear Technology Corporation has a working, auto-installable, schematic capture enhanced (or manual netlist entry for die-hards) absolutely FREE. "LTSpice" available at Linear Technology's website as a single download. Many commonly-used semiconductor component models are available as part of that. A tube-oriented audiophile website in the UK even has several vacuum tube SPICE models (they call tubes 'valves' - :-) for LTSpice.

As a long-time homebrewer and electronics experimenter (since 1947), a knowledge of programming languages is not a priority to homebrewing; that is a separate subject, interesting in itself, but not germane. A full-blown, working, easier-to-use SPICE derivative that if FREE is more suited (I think) to homebrewers. I've used LTSpice myself, compared its calculations to actual, working hardware and find NO discrepancies.

SPICE derivative programs all allow netlist descriptions of component characteristics in algebraic form plus a shorthand that is common to all SPICE forms for special Models. There is no need to learn FORTRAN (SPICE core's original language) or versions written in C++ (which are available now), or any other high-level language. For my programming needs today, Assembler-level source code for PIC or ATMEL microcontrollers is more germane to homebrewing. Some of those are also FREE.

At least two PCB fabrication companies have FREE PCB layout programs available without ordering any boards. Transferring a schematic from LTSpice to theirs is just a schemtic redrawing task, usually a one-shot task.

I don't mean to diminish any importance of programming languages or any different CADs or CAEs, but, let's face it, APL is an old high-level language. I still have the 100 W American Beauty soldering iron I got in 1948 but it is out-of-date for soldering parts on a PCB now.

73, Len AF6AY
af6ay@arrl.net
LenAnderson@ieee.org

From 6139430215869160979
X-Google-Thread: fc2a5,a355a1b7b5491592
X-Google-Thread: 1159c6,a355a1b7b5491592
X-Google-Attributes: gidfc2a5,gid1159c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 05 Dec 2007 20:20:52 -0600
Date: Wed, 05 Dec 2007 21:16:35 -0500
From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.5) Gecko/20070716 SeaMonkey/1.1.3
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Subject: Re: "MARTHA" RF/Microwave CAD Using APL -- Free!
References: <w5mdnZM9gtYe9c7anZ2dnUVZ_tXinZ2d@rcn.net> <2933aefb-5594-450d-b14c-c532788ac93b@s36g2000prg.googlegroups.com>
In-Reply-To: <2933aefb-5594-450d-b14c-c532788ac93b@s36g2000prg.googlegroups.com>
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Lines: 49
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NNTP-Posting-Host: 71.178.4.38
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X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
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X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14781 sci.electronics.cad:8920

AF6AY wrote:
> From: gwhite@alum.mit.edu (Doug White) on Sun, Dec 2 2007 6:22 pm
>
>> MARTHA is NOT for everyone. It doesn't have fancy schematic capture or
>> PCB layout features. It also requires learning at least a little about
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>> procedures & batch files to try to make it as painless as possible.
>
> That's interesting that the 35-year-old A Programming Language (APL)
> is still around somewhere. I learned of it way back when in '72 while
> employed by RCA Corporation...and getting interested in programming
> after a very satisfactory and productive introduction to 'LECAP,'
> RCA's
> frequency-domain version of the original ECAP from IBM.
>
> However, today's desktop PCs have MORE speed, mass memory, RAM storage
> than any mainframe computer of 35 years ago at less than $1K US new
> off-the-shelf (today's Fry's Electronics ad had a PC with LCD monitor
> for $400). We don't really need Interpreter-based high-level
> languages now.

I guess the guys that program in perl, javascript, python, lisp, and apl,
among many many others, should just quit? ;-)

...
>
> Three decades ago the UC Berkeley group came up with SPICE and made
> the core of that program FREE, no restrictions (source code available
> for the cost of paper reproduction and mailing). SPICE derivatives
> are the electronics industry standard today.

Spice is an interpreter.

...

> I don't mean to diminish any importance of programming languages
> or any different CADs or CAEs, but, let's face it, APL is an old
> high-level language.

Unix is an old operating system, yet it still seems to get a whole
lot of use. APL is the ultimate programmable calculator. It is a

beautiful language that can do beautiful things in a very succinct manner.

Perhaps if you actually had used it, you might think more of APL.

-Chuck

```
From 7197093099148482731
X-Google-Thread: fc2a5,a8c0bef4a0360fc6
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w34g2000hsg.googlegroups.com!not-for-
mail
From: Tom <holden_family@sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Soldering surface mount etc, new set of videos
Date: Wed, 5 Dec 2007 19:37:52 -0800 (PST)
Organization: http://groups.google.com
Lines: 12
Message-ID: <36dbd02b-6278-4d82-b7e0-ac0dd035ffed@w34g2000hsg.googlegroups.com>
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NNTP-Posting-Host: 65.95.104.184
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
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NNTP-Posting-Date: Thu, 6 Dec 2007 03:37:52 +0000 (UTC)
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Injection-Info: w34g2000hsg.googlegroups.com; posting-host=65.95.104.184;
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     1.1.4322),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14782
```

On Dec 5, 6:34 am, bigorangebus <bigorange...@yahoo.com> wrote:
[snip]
> I hope thats useful. Any one else have tips and tricks for this?
>
> Andy

Andy, that's a great writeup and especially graphic as I had just viewed a number of soldering demonstrations freely available on YouTube. Your extensive use of flux was not evident in any of the videos I saw but sounds like a very safe technique.

Tom

From 3313290037354447147
X-Google-Thread: fc2a5,a355a1b7b5491592
X-Google-Thread: 1159c6,a355a1b7b5491592
X-Google-Attributes: gidfc2a5,gid1159c6,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!s19g2000prg.googlegroups.com!not-for-mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew, sci.electronics.cad
Subject: Re: "MARTHA" RF/Microwave CAD Using APL -- Free!
Date: Wed, 5 Dec 2007 21:41:59 -0800 (PST)
Organization: http://groups.google.com
Lines: 61
Message-ID: <d6e03b61-95bf-45fb-b4b4-83fcd57a147d@s19g2000prg.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 6 Dec 2007 05:41:59 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: s19g2000prg.googlegroups.com; posting-host=207.200.116.11;
     posting-account=0Q4qJQoAAAB4vjIbnPnpY8JqAcYZv7Os
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     .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
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     cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Xref: g2news1.google.com rec.radio.amateur.homebrew:14783 sci.electronics.cad:8921

On Dec 5, 6:16=EF=BF=BDpm, Chuck Harris <cf-NO-SPAM-har...@erols.com> wrote:=

> AF6AY wrote:
> > From: gwh...@alum.mit.edu (Doug White) on Sun, Dec 2 2007 6:22 pm

> Spice is an interpreter.

Whatever. My point was as a homebrewer using a tool as an aid to
building something. SPICE and its derivatives (all individual
'wrappings'
on the Berkeley SPICE core) are VERY FAST. They work for me just
as SPICE works for thousands of other circuit designers, both pro
and amateur (I am both).

> > I don't mean to diminish any importance of programming languages
> > or any different CADs or CAEs, but, let's face it, APL is an old
> > high-level language.
>

> Unix is an old operating system, yet it still seems to get a whole
> lot of use. =EF=BF=BDAPL is the ultimate programmable calculator. =EF=BF=
=BDIt is a
> beautiful language that can do beautiful things in a very succinct
> manner.

Everyone has their 'favorite' high-level language, each one saying
that Their language is the best, most beautiful, and other fancy
sayings, complete with all sorts of academic praises and plaudits.

My new HP-35S isn't as pretty as the HP-32S II which is also on
my computer table and the programming commands aren't quite
compatible. Esthetics aside, I wouldn't trade either one of them
for SMALL programming tasks. What I want are the numbers
from the results so that hardware can be completed. Both do that
very nicely for what I want.

> Perhaps if you actually had used it, you might think more of APL.

Perhaps if you had actually used LTSpice, a FREE download from
Linear Technology and actually built some circuits using the LTSPice
results you might think more of it. <shrug>

Your message appeared in rec.radio.amateur.homebrew and also
sci.electronics.cad. I am replying from homebrew. I'm not a
programmer despite once having several years complementary
membership in the ACM...or teaching myself FORTRAN IV from
Dan McCracken's softcover book on the subject. I have MS
FORTRAN 5.1 package, bought and paid for myself and have used
it for a variety of different tasks...until MS dropped support of
their
product and also of similar products in later versions of Windows.
<shrug again>

If you want to get all arrogant about computer languages, please
remove rec.radio.amateur.homebrew from your message routing.
In the meanwhile I will continue to do my own homebrewing
without going through even-more learning curves of old languages
or old OSs just to be with the 'best' tool. Even the 'best' tools can
make cruddy circuit calculations.

73, Len AF6AY
LenAnderson@ieee.org

From -2535755756160817319
X-Google-Thread: fc2a5,a355a1b7b5491592
X-Google-Thread: 1159c6,a355a1b7b5491592
X-Google-Attributes: gidfc2a5,gid1159c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
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not-for-mail

NNTP-Posting-Date: Thu, 06 Dec 2007 07:21:26 -0600
Date: Thu, 06 Dec 2007 08:17:06 -0500
From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.5) Gecko/20070716
SeaMonkey/1.1.3
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Subject: Re: "MARTHA" RF/Microwave CAD Using APL -- Free!
References: <w5mdnZM9gtYe9c7anZ2dnUVZ_tXinZ2d@rcn.net> <2933aefb-5594-450d-b14c-
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NNTP-Posting-Host: 71.178.4.38
X-Trace: sv3-
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X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14784 sci.electronics.cad:8924

AF6AY wrote:

> Everyone has their 'favorite' high-level language, each one saying
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> sayings, complete with all sorts of academic praises and plaudits.
>
> My new HP-35S isn't as pretty as the HP-32S II which is also on
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> very nicely for what I want.
>
>> Perhaps if you actually had used it, you might think more of APL.
>
> Perhaps if you had actually used LTSpice, a FREE download from
> Linear Technology and actually built some circuits using the LTSPice
> results you might think more of it. <shrug>

I have, and I think it is a very nice tool. Perhaps the best of the
available spices. But because it is not a free tool (eg. open source)
I have to live with everything just the way that Mike Englehart

wants it to be. That isn't a bad thing, but it is very limiting because
one day Mike won't be there to support LTSpice anymore, and LT will
decide that they haven't the funds to hire some new support, and it
freeze. To cease being supported is to die in software land.

MARTHA's source is open, and because anyone with the desire to
support it can, it will live forever.

> Your message appeared in rec.radio.amateur.homebrew and also
> sci.electronics.cad. I am replying from homebrew. I'm not a
> programmer despite once having several years complementary
> membership in the ACM...or teaching myself FORTRAN IV from
> Dan McCracken's softcover book on the subject. I have MS
> FORTRAN 5.1 package, bought and paid for myself and have used
> it for a variety of different tasks...until MS dropped support of
> their
> product and also of similar products in later versions of Windows.
> <shrug again>

So, instead of shrugging about how MS wronged you by dropping support
for an old fortran package, wander over to linux, or BSD, and run
the open source f77 program, along with all the other open source
goodies that have been made available for everyone to use free of
charge.... including some damn nice implementations of programs for
hamradio use.

> If you want to get all arrogant about computer languages, please

Begging your pardon, but you were the one that felt the need to
slam the MARTHA cad program and apl. The announcement you saw was
a simple announcement of a gift to everyone of this package. That
bothered you for some reason, so you felt the need to tell everyone
to ignore it because apl was old, and anything old couldn't be any
good.

73,

Chuck

From 846735965278443593
X-Google-Thread: fc2a5,a355a1b7b5491592
X-Google-Thread: 1159c6,a355a1b7b5491592
X-Google-Attributes: gidfc2a5,gid1159c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx01.iad01.newshosting.com!newshosting.com!news.alt.net!sn-xt-sjc-04!sn-xt-sjc-07!
sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Koltner" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Subject: Re: "MARTHA" RF/Microwave CAD Using APL -- Free!
Date: Thu, 6 Dec 2007 09:22:25 -0800

Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13lgbuie6bdq082@corp.supernews.com>
References: <w5mdnZM9gtYe9c7anZ2dnUVZ_tXinZ2d@rcn.net> <2933aefb-5594-450d-b14c-c532788ac93b@s36g2000prg.googlegroups.com>
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X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-Complaints-To: abuse@supernews.com
Lines: 40
Xref: g2news1.google.com rec.radio.amateur.homebrew:14785 sci.electronics.cad:8925

"Chuck Harris" <cf-NO-SPAM-harris@erols.com> wrote in message
news:So-dnXw9HPDLasranZ2dnUVZ_hSdnZ2d@rcn.net...

> I have, and I think it is a very nice tool. Perhaps the best of the
> available spices. But because it is not a free tool (eg. open source)
> I have to live with everything just the way that Mike Englehart
> wants it to be.

He's certainly open to input from users, Chuck -- it's part of his job. No guarantees he'd add something you'd want, of course, but in my opinion Mike is going to be a lot more responsive to the average user than, say, Synopysys would be if you asked them to add something to HSPICE.

> That isn't a bad thing, but it is very limiting because
> one day Mike won't be there to support LTSpice anymore, and LT will
> decide that they haven't the funds to hire some new support, and it
> freeze.

That's a rather pessimistic viewpoint. Worst case, LTSpice simply isn't developed any more, but it'll then always still be just as good as it is the day that happens.

> To cease being supported is to die in software land.

Everyone and everything dies at some point...

> MARTHA's source is open, and because anyone with the desire to
> support it can, it will live forever.

Oh, come on... open-source software is, if anything, more likely to die than most commercial software because there's usually no profit motive behind keeping it alive. I realize that it's not quite the same in that open-source software, even if "dead," can be "resurrected" at any time whereas that's often not the case with commercial software... but there's plenty of open-source software that's been "buried" for so long now the chance of anyone resurrecting it rather than just coming up with a new "baby" from scratch is remote.

---Joel

From 7428672858478575186
X-Google-Thread: fc2a5,a355a1b7b5491592
X-Google-Thread: 1159c6,a355a1b7b5491592
X-Google-Attributes: gidfc2a5,gid1159c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
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not-for-mail
NNTP-Posting-Date: Thu, 06 Dec 2007 12:27:33 -0600
Date: Thu, 06 Dec 2007 13:23:11 -0500
From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.5) Gecko/20070716
SeaMonkey/1.1.3
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Subject: Re: "MARTHA" RF/Microwave CAD Using APL -- Free!
References: <w5mdnZM9gtYe9c7anZ2dnUVZ_tXinZ2d@rcn.net> <2933aefb-5594-450d-b14c-
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NNTP-Posting-Host: 71.178.4.38
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Db2aYXO3cwNgRPau1Ijb5p6KOaundUy46uT+d9kIc1ktiQ8590EJbG4nLVIPsu9pIyBcLImwJpC/!
FBjQBLz+MA==
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14786 sci.electronics.cad:8926

Joel Koltner wrote:
> "Chuck Harris" <cf-NO-SPAM-harris@erols.com> wrote in message
> news:So-dnXw9HPDLasranZ2dnUVZ_hSdnZ2d@rcn.net...
>> I have, and I think it is a very nice tool. Perhaps the best of the
>> available spices. But because it is not a free tool (eg. open source)
>> I have to live with everything just the way that Mike Englehart
>> wants it to be.
>

> He's certainly open to input from users, Chuck -- it's part of his job.

Mike is all aces as far as I am concerned. His level of responsiveness is
very close to as good as what I typically get from open source authors.

No
> guarantees he'd add something you'd want, of course, but in my opinion Mike is
> going to be a lot more responsive to the average user than, say, Synopysys
> would be if you asked them to add something to HSPICE.

Agreed.

I have for many years seen a connection between software's price and
the responsiveness of the company towards the customer:

Synopsys charges a boat load, and they are not very responsive.
LT charges nothing for LTSPice, and is so responsive that I
would not be at all surprised if Mike Englehardt jumps into this thread.

>> That isn't a bad thing, but it is very limiting because
>> one day Mike won't be there to support LTSpice anymore, and LT will
>> decide that they haven't the funds to hire some new support, and it
>> will freeze.
>
> That's a rather pessimistic viewpoint.

No, it isn't!   It is a realistic viewpoint. I have been in this
industry long enough (37+ years) to have seen this happen over and
over again. It *will* happen with every single piece of commercial
software ever written at some point... guaranteed, unless the owner
decides to commit it to the public domain, or open source, like
MARTHA's owner so generously did.

Worst case, LTSpice simply isn't
> developed any more, but it'll then always still be just as good as it is the
> day that happens.

It sure will, and just like good old DOS Orcad, you will have some people
who keep around old legacy DOS systems just so they can use it. I have rather
a lot of software that was written for Windows 95, that is no longer usable
with NT, XP, or Vista. Am I supposed to keep a '95 box around just to run it?

With open source, I just relink to the latest library, and I am back in the
game.

And what if I need to change it? I won't be able to make LTSpice do
anything that it cannot currently do. That is bound to be a problem if
I need to simulate flux-gate capacitors. Or want a better matrix solving
algorithm than Mike knew to choose.

>> To cease being supported is to die in software land.
>
> Everyone and everything dies at some point...

The only way open source software can die is if it gets lost so badly
that nobody can find it. This is unlikely, given the wide distribution
that most of these packages have had.

>> MARTHA's source is open, and because anyone with the desire to
>> support it can, it will live forever.

> Oh, come on... open-source software is, if anything, more likely to die than
> most commercial software because there's usually no profit motive behind
> keeping it alive.

MARTHA has already outlived most any other commercial software that
was written in the same time frame. As long as the source code doesn't
get lost, and *anyone* is interested in it, it will continue to survive.

I have been running a quaint little editor that Jonathan Payne, of Sun
JAVA fame wrote when he was a wet behind the ears kid in high-school.
It was designed to run under unix on a pdp-11 with 64K-I, and 64K-D.
I have ported(or simply used) it to(on) every operating system, and
platform that I have used since he wrote it.

Before jove, I was enamored by a nice little editor called edix. It was
proprietary, and ran only under DOS. It died 25 years ago. Sure, I can
cart its mangy carcass off to linux and run it under DOSEMU, but if I want
to change anything about it I am out of luck.

You say there is no profit motive, but that is where you are completely
wrong. *I* profit from the open source software that I use. As long as
that is true, I will see to it that the software I use is available on
the systems that I am currently using.

   I realize that it's not quite the same in that open-source
> software, even if "dead," can be "resurrected" at any time whereas that's
> often not the case with commercial software... but there's plenty of
> open-source software that's been "buried" for so long now the chance of anyone
> resurrecting it rather than just coming up with a new "baby" from scratch is
> remote.

Odds are pretty good that that new "baby" will have in some way benefited from the
program that came before it. You might not be able to see the connection, but
it is very often there.

-Chuck

```
From 2084566072222311657
X-Google-Thread: fc2a5,a355a1b7b5491592
X-Google-Thread: 1159c6,a355a1b7b5491592
X-Google-Attributes: gidfc2a5,gid1159c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
```

news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 06 Dec 2007 12:48:15 -0600
Message-Id: <6isl25-3gt.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: Re: "MARTHA" RF/Microwave CAD Using APL -- Free!
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Date: Thu, 06 Dec 2007 12:44:53 -0600
References: <w5mdnZM9gtYe9c7anZ2dnUVZ_tXinZ2d@rcn.net> <2933aefb-5594-450d-b14c-c532788ac93b@s36g2000prg.googlegroups.com>
<Rq6dnXcNteMZwcranZ2dnUVZ_t6onZ2d@rcn.net>
Organization: the clifto consortium
User-Agent: KNode/0.10.5
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 16
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NNTP-Posting-Host: 24.15.125.52
X-Trace: sv3-H8K8/8LJJxC/rBIj0Sno3y/al2iVtNCN/36RUFW0U5ZhvAbH3lruuRlLw/
VDPRXHHpAZ6ZbafAlSADt!
s2YjiIBb0JA9SJucKZygueMENQVHOx2HYKEI67iinpXhMNgL6yAx3aj0ZaJHcI8ojzeF6YNP1OOL!
CHTdAhbxpOJo
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14787 sci.electronics.cad:8927

Chuck Harris wrote:
> Spice is an interpreter.

SPICE makes sense as an interpreter. Compilers are best for programs you write once and use several times; interpreters are best for programs you run once but write several of. If you consider every change to a circuit to be a separate program you run once (which makes perfect sense when you consider you would be recompiling it every time you made a change), and you consider that once the circuit works to your liking you probably won't be running that simulation often, then an interpreter is perfect for the job and a compiler would be slow and inconvenient.

--
A staffer for Democrat Senator Maria Cantwell of Washington has been arrested for trying to arrange a sexual tryst with a 13-year old boy.
http://www.thesmokinggun.com/archive/years/2007/1203072senate1.html

From 8719043483116091080
X-Google-Thread: fc2a5,a355a1b7b5491592
X-Google-Thread: 1159c6,a355a1b7b5491592
X-Google-Attributes: gidfc2a5,gid1159c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!tethys.csu.net!
nntp.csufresno.edu!sn-xt-sjc-03!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Subject: Re: "MARTHA" RF/Microwave CAD Using APL -- Free!
Date: Thu, 06 Dec 2007 12:58:01 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13lgha4l3d9o570@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <w5mdnZM9gtYe9c7anZ2dnUVZ_tXinZ2d@rcn.net> <2933aefb-5594-450d-b14c-
c532788ac93b@s36g2000prg.googlegroups.com>
<Rq6dnXcNteMZwcranZ2dnUVZ_t6onZ2d@rcn.net> <d6e03b61-95bf-45fb-
b4b4-83fcd57a147d@s19g2000prg.googlegroups.com> <So-
dnXw9HPDLasranZ2dnUVZ_hSdnZ2d@rcn.net> <13lgbuie6bdq082@corp.supernews.com>
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In-Reply-To: <nL2dndeq2pWLosXanZ2dnUVZ_oGjnZ2d@rcn.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 21
Xref: g2news1.google.com rec.radio.amateur.homebrew:14788 sci.electronics.cad:8928

Chuck Harris wrote:

<snip>

> It sure will, and just like good old DOS Orcad, you will have some people
> who keep around old legacy DOS systems just so they can use it.

I would have loved having DOS Orcad; I used to use the demo version
which wouldn't save or print, by using a video printer for output.

> I have rather a lot of software that was written for Windows 95,
> that is no longer usable with NT, XP, or Vista. Am I supposed to
> keep a '95 box around just to run it?

Why not run the old O/Ses on virtual machines? I know quite a few
folks who have a boatload of old O/S and apps running under VMWare.

Regards,

Michael

From -8938616343853285365
X-Google-Thread: fc2a5,a355a1b7b5491592
X-Google-Thread: 1159c6,a355a1b7b5491592
X-Google-Attributes: gidfc2a5,gid1159c6,public,usenet

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!
not-for-mail
NNTP-Posting-Date: Thu, 06 Dec 2007 13:01:40 -0600
Date: Thu, 06 Dec 2007 13:57:18 -0500
From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.5) Gecko/20070716
SeaMonkey/1.1.3
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Subject: Re: "MARTHA" RF/Microwave CAD Using APL -- Free!
References: <w5mdnZM9gtYe9c7anZ2dnUVZ_tXinZ2d@rcn.net> <2933aefb-5594-450d-b14c-
c532788ac93b@s36g2000prg.googlegroups.com>
<Rq6dnXcNteMZwcranZ2dnUVZ_t6onZ2d@rcn.net> <6isl25-3gt.ln1@remote.clifto.com>
In-Reply-To: <6isl25-3gt.ln1@remote.clifto.com>
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Content-Transfer-Encoding: 7bit
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Lines: 21
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.178.4.38
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izQIj6v5fQ==
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14789 sci.electronics.cad:8929
```

clifto wrote:

> Chuck Harris wrote:
>> Spice is an interpreter.
>
> SPICE makes sense as an interpreter. Compilers are best for programs you
> write once and use several times; interpreters are best for programs you
> run once but write several of. If you consider every change to a circuit
> to be a separate program you run once (which makes perfect sense when you
> consider you would be recompiling it every time you made a change), and
> you consider that once the circuit works to your liking you probably won't
> be running that simulation often, then an interpreter is perfect for the
> job and a compiler would be slow and inconvenient.

There is an additional, very important reason to use an interpreter:
Ease of debugging. An interpreter knows exactly what is happening in
all of the data spaces, indexes, jumps, subroutines, etc. at all times.
That factor makes it easy to debug. Interpreted languages, such as Python,
Perl, and apl have extensive debugging facilities available. Debugging with
a compiler is a much more complicated matter.

-Chuck

```
From 4112091935983820681
X-Google-Thread: fc2a5,a355a1b7b5491592
X-Google-Thread: 1159c6,a355a1b7b5491592
X-Google-Attributes: gidfc2a5,gid1159c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!
not-for-mail
NNTP-Posting-Date: Thu, 06 Dec 2007 13:06:55 -0600
Date: Thu, 06 Dec 2007 14:02:34 -0500
From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.5) Gecko/20070716
SeaMonkey/1.1.3
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Subject: Re: "MARTHA" RF/Microwave CAD Using APL -- Free!
References: <w5mdnZM9gtYe9c7anZ2dnUVZ_tXinZ2d@rcn.net> <2933aefb-5594-450d-b14c-
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In-Reply-To: <13lgha4l3d9o570@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <-MadnaNMjfnS1cXanZ2dnUVZ_r2nnZ2d@rcn.net>
Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.178.4.38
X-Trace: sv3-
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7uA0TZP9HA==
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14790 sci.electronics.cad:8930

msg wrote:
> Chuck Harris wrote:
>
> <snip>
>
>> It sure will, and just like good old DOS Orcad, you will have some people
>> who keep around old legacy DOS systems just so they can use it.
```

You are in luck, it is available. Check out the OldDosOrcad group on Yahoo.
Even DOS OrCAD's author appears there from time-to-time.

> I would have loved having DOS Orcad; I used to use the demo version
> which wouldn't save or print, by using a video printer for output.
>
> > I have rather a lot of software that was written for Windows 95,
> > that is no longer usable with NT, XP, or Vista. Am I supposed to
> > keep a '95 box around just to run it?
>
> Why not run the old O/Ses on virtual machines? I know quite a few
> folks who have a boatload of old O/S and apps running under VMWare.

And I am doing just that, with linux and Wine. Wine allows me to run
a windows program as it existed on the day it was written, but does nothing
to help me if I need some changes.

-Chuck

From 6625958826727840594
X-Google-Thread: fc2a5,a355a1b7b5491592
X-Google-Thread: 1159c6,a355a1b7b5491592
X-Google-Attributes: gidfc2a5,gid1159c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e10g2000prf.googlegroups.com!not-for-mail
From: Marra <cresswellavenue@talktalk.net>
Newsgroups: rec.radio.amateur.homebrew, sci.electronics.cad
Subject: Re: "MARTHA" RF/Microwave CAD Using APL -- Free!
Date: Thu, 6 Dec 2007 11:09:43 -0800 (PST)
Organization: http://groups.google.com
Lines: 16
Message-ID: <b2871396-e387-44cf-8031-1785b53e71cf@e10g2000prf.googlegroups.com>
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Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1196968184 26171 127.0.0.1 (6 Dec 2007 19:09:44 GMT)
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NNTP-Posting-Date: Thu, 6 Dec 2007 19:09:44 +0000 (UTC)
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Injection-Info: e10g2000prf.googlegroups.com; posting-host=78.150.165.67;
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0;

     SIMBAR={AE14EC5E-72E2-11DC-8880-CE0789138E9C}; SLCC1; .NET CLR 2.0.50727;
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Xref: g2news1.google.com rec.radio.amateur.homebrew:14791 sci.electronics.cad:8931

I suspect a lot of these old and free PCB CAD packages are not taking
full advantage of the current PC hardware.

PC's have bags of memory now so the old pin limited packages are out
of date.

Things like vast processing power can be done to do things like auto
placing of components.

In my software I also added right click context menus which are very
user friendly.

www.murtonpikesystems.co.uk

From 6797503283673677380
X-Google-Thread: fc2a5,a355a1b7b5491592
X-Google-Thread: 1159c6,a355a1b7b5491592
X-Google-Attributes: gidfc2a5,gid1159c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!
not-for-mail
NNTP-Posting-Date: Thu, 06 Dec 2007 13:12:37 -0600
Date: Thu, 06 Dec 2007 14:08:19 -0500
From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.5) Gecko/20070716
SeaMonkey/1.1.3
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Subject: Re: "MARTHA" RF/Microwave CAD Using APL -- Free!
References: <w5mdnZM9gtYe9c7anZ2dnUVZ_tXinZ2d@rcn.net> <2933aefb-5594-450d-b14c-
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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <-MadnaJMjfk41MXanZ2dnUVZ_r3inZ2d@rcn.net>
Lines: 14
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.178.4.38
X-Trace: sv3-

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3FeVZxKJKw==
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14792 sci.electronics.cad:8933

Marra wrote:
> I suspect a lot of these old and free PCB CAD packages are not taking
> full advantage of the current PC hardware.
>
>
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> of date.
>

That is certain to be true.

Yet another argument in favor of open source.

-Chuck

From -7533550036331840857
X-Google-Thread: fc2a5,a355a1b7b5491592
X-Google-Thread: 1159c6,a355a1b7b5491592
X-Google-Attributes: gidfc2a5,gid1159c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 06 Dec 2007 14:35:14 -0600
Message-Id: <sn2m25-3pt.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: Re: "MARTHA" RF/Microwave CAD Using APL -- Free!
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Date: Thu, 06 Dec 2007 14:30:19 -0600
References: <w5mdnZM9gtYe9c7anZ2dnUVZ_tXinZ2d@rcn.net> <2933aefb-5594-450d-b14c-c532788ac93b@s36g2000prg.googlegroups.com>
<Rq6dnXcNteMZwcranZ2dnUVZ_t6onZ2d@rcn.net> <6isl25-3gt.ln1@remote.clifto.com>
<Iq6dnXn-kJaJ2sXanZ2dnUVZ_u6rnZ2d@rcn.net>
Organization: the clifto consortium
User-Agent: KNode/0.10.5
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 28
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.15.125.52

```
X-Trace: sv3-LPs1qkSp7CFMVS+vPK2BvG4HJ+d2B/
6bh7AgytFfJj+mlve37E0ltsE61Z5u7qHoQ21sTnFCJ0kSPH/!9c1WcKQOofLDErfl9Uc/
uAI18KZaLW1kdtnTK6oXQYyg4SH33xol70faGnya4A/GNWlH27loIweD!eAenI+aNOnu4
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14793 sci.electronics.cad:8936

Chuck Harris wrote:
> clifto wrote:
>> Chuck Harris wrote:
>>> Spice is an interpreter.
>>
>> SPICE makes sense as an interpreter. Compilers are best for programs you
>> write once and use several times; interpreters are best for programs you
>> run once but write several of. If you consider every change to a circuit
>> to be a separate program you run once (which makes perfect sense when you
>> consider you would be recompiling it every time you made a change), and
>> you consider that once the circuit works to your liking you probably won't
>> be running that simulation often, then an interpreter is perfect for the
>> job and a compiler would be slow and inconvenient.
>
> There is an additional, very important reason to use an interpreter:
> Ease of debugging.  An interpreter knows exactly what is happening in
> all of the data spaces, indexes, jumps, subroutines, etc. at all times.
> That factor makes it easy to debug.  Interpreted languages, such as Python,
> Perl, and apl have extensive debugging facilities available.  Debugging with
> a compiler is a much more complicated matter.

You're right. In a way that's what one is doing when changing a SPICE
simulation repeatedly while testing/modifying a circuit.

--
    A staffer for Democrat Senator Maria Cantwell of Washington has been
    arrested for trying to arrange a sexual tryst with a 13-year old boy.
     http://www.thesmokinggun.com/archive/years/2007/1203072senate1.html


From -2992549907287912580
X-Google-Thread: fc2a5,1ac0abbd5951fe74,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!sn-xt-sjc-03!sn-
xt-sjc-06!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-
mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: DSP ideas wanted AND opinions on DSP software
Date: Thu, 06 Dec 2007 18:24:25 -0600
Organization: Posted via Supernews, http://www.supernews.com
```

```
Message-ID: <13lh4e1q62msf50@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 79
Xref: g2news1.google.com rec.radio.amateur.homebrew:14794
```

Greetings:

I would appreciate advice on features desirable in a DSP audio processor unit. I have no experience with any modern DSP-equipped rigs and my older radios only have simple xtal filters and IF phasing controls. I never had a useful CW filter on anything (my SB300's 400 Hz filter was broken). At a minimum I suspect that a variable parameter narrow filter, sliding notch, denoiser, autonotch and selectable preset filters would be useful, together with onboard decoding of various digital modes.

My DSP processor adjunct to my homebrew receiver is documented at

http://www.cybertheque.org/homebrew/rcvr/dsp.

It is online for listening according to procedures described on the site. At the time of this posting, the receiver is tuned to a nearby non-directional beacon on 335 kHz (ID is COQ) which ordinarily is un-copyable at this QTH due to extreme noise on the bands below 500 kHz. Using the very narrow filter described on the site, the signal is quite clean. Another reliable CW source without a lot of noise is KA0PSE's beacon on 28218 kHz. Please listen to the wav file of a snipit of a recent 80m CW QSO between N1DZ and PK1VH which was heard in the late evening when 80m is usually closed and very noisy around here (the link is on the page). Not having been active on CW for a long time and never having had benefit of filters, I felt this was eminently copyable, but I would appreciate the advice of others who are active. People have complained in general about 'ringing' or click artifacts in narrow filters; I hear the spectral components of the background noise at this filter's center frequency, but I don't think there is ringing and certainly there are no clicks.

Incidentally, there is a touching description from N1DZ of his grandfather's radio activity in Java during the 1930's at:

hamgallery.com/qsl/deleted/Java/pk1vh.htm+n1dz+maarten&hl=en&ct=clnk&cd=14&gl=us

This narrow filter represents a maximal implementation of a FIR framework within the memory constraints of the platform (4k Data space); only one-half of the available MIPS are used however, which permits the addition of adaptive control algorithms or additional tasks such as demodulation of digital modes while employing this filter's framework. Note that I've coded for the base level of implementation of this technology; more well-equipped MWave DSP cards have up to 64 kB of data space. I've written this filter in the assembly language of the DSP and all processing is done onboard; the host only handles control and status with the outside and serves coefficient and control-data sets to the DSP tasks. The only latency between input and output is the 726 uS needed to pre-roll the input circular buffer.

ALSO:

I would appreciate hearing experiences with PC-based DSP software, including the package name, system details (speed, o/s, etc.), and comments on usefulness, stability, etc. I have yet to find a useful PC-based DSP program that will run on hardware that I own (< 1Ghz, mostly 400 -> 600 Mhz PII/PIII) except for a German collection of FIR filters, which have a long output latency, or the DSP Blaster on DOS using a Soundblaster card. I have tried perhaps a half-dozen programs, some open source, some proprietary, and all have either crashed the O/S (mostly Win2k, or Win95/98 since the majority of programs are written for them), run out of resources (CPU), have terrible broken audio, have huge footprints, use unmanageable installers, require a bunch of MS installs (MSIE, DirectX, database APIs, COM, .NET, etc., etc.) or are otherwise unfriendly. I realize that DSP on a general purpose CPU is going to be resource intensive but with MMX and SIMD it should be doable on PII/PIII. This is really for edification only since I don't intend to use a standard PC for DSP except for testing and evaluation.

Please let me know what you find most useful and necessary in a DSP unit for radio work; I hope to have the remote interface running within a month or so and will then need to add additional filters and demodulators. The entire project will be documented on the site and source code and binaries will be available.

Regards,

Michael

From -5618572677098456181
X-Google-Thread: fc2a5,1ac0abbd5951fe74
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out01a.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!nx01.iad01.newshosting.com!newshosting.com!216.196.98.140.MISMATCH!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 06 Dec 2007 23:39:14 -0600
Message-Id: <fn2n25-s31.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: Re: DSP ideas wanted AND opinions on DSP software

Newsgroups: rec.radio.amateur.homebrew
Date: Thu, 06 Dec 2007 23:36:14 -0600
References: <13lh4e1q62msf50@corp.supernews.com>
Organization: the clifto consortium
User-Agent: KNode/0.10.5
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 10
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.15.125.52
X-Trace: sv3-
RRq7z2+VI6m95UnTCo2EmXOUWFLOSEfjYuAm5v6heG2IOJ5qlFMDjgkXK8I6Ps8lhB7xTzUiWlgeRTy!
Iq2OG4uPPDOWXrNxyfbhE6awxR8ugKnRy1IBlni1vHKW7KCPKJJ/zo6yk8Bfpwlaqfx1SAF/uyTL!
Vh5p9IynT1rp
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14795

msg wrote:
> I would appreciate advice on features desirable in a DSP audio
> processor unit.

Dual notch. Dual autonotch would be cool.

--
Dec. 6 (Bloomberg) -- Government officials and activists flying to Bali,
Indonesia, for the United Nations meeting on climate change will cause as much
pollution as 20,000 cars in a year.

From 3833861085206740614
X-Google-Thread: fcc6e,72b70a03b6c1ab13,start
X-Google-Thread: 11480d,72b70a03b6c1ab13,start
X-Google-Thread: 108122,72b70a03b6c1ab13,start
X-Google-Thread: fc2a5,72b70a03b6c1ab13,start
X-Google-Thread: 10b9c8,72b70a03b6c1ab13,start
X-Google-Attributes: gidfcc6e,gid11480d,gid108122,gidfc2a5,gid10b9c8,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1194419101@panix.com>

Followup-To: poster
Date: 7 Dec 2007 02:05:01 -0500
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 09 Jan 2008 02:05:00 -0000
Message-ID: <radio/ham-radio/recruitment-1-1197011100@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1197011103 23417 166.84.1.2 (7 Dec 2007 07:05:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 7 Dec 2007 07:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:50733 rec.radio.amateur.dx:3775 rec.radio.amateur.equipment:13399 rec.radio.amateur.homebrew:14796 rec.radio.info:624

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

From -7189293181801073924
X-Google-Thread: fc2a5,61612928ba9c6220
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 07 Dec 2007 06:33:08 -0600
From: "jack" <jdwalton@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <506398ea-281e-40f0-9571-84c5ec4a29e1@d61g2000hsa.googlegroups.com>
<pan.2007.12.05.06.14.48.803153@localhost.localdomain>
Subject: Re: 2SB545A
Date: Fri, 7 Dec 2007 07:35:06 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Message-ID: <U7KdnaOrX48ZoMTanZ2dnUVZ_r2nnZ2d@comcast.com>
Lines: 3
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.249.69.72
X-Trace: sv3-6nnMZ0atnQ8WRFRR6/
gm2dOlE0OkbildJxx9iv0SSB10O05ArzKxWJZStZJYDaP0Eh3LDrb34/0mp3h!
ksnOgk9rB8wFGwVyuoGfARLPZGF8AYjEyL48Q6DoBQM5pRmTRAz8slVp0G4QMAPHgisrKofr4EXP!
qsfQxQFRNsfoyKFR6qw6STHQbQeR
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14797

www.questcomp.com

From 5801961873508904934
X-Google-Thread: fc2a5,61612928ba9c6220
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!b40g2000prf.googlegroups.com!not-for-mail
From: Andrew VK3BFA <vk3bfa@hotmail.com>

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2SB545A
Date: Fri, 7 Dec 2007 04:50:35 -0800 (PST)
Organization: http://groups.google.com
Lines: 34
Message-ID: <ee63501d-32d0-4144-9709-95ddebc48a15@b40g2000prf.googlegroups.com>
References: <506398ea-281e-40f0-9571-84c5ec4a29e1@d61g2000hsa.googlegroups.com>
     <pan.2007.12.05.06.14.48.803153@localhost.localdomain> <2b8db004-ad3f-4821-a238-499130306ce9@d4g2000prg.googlegroups.com>
NNTP-Posting-Host: 218.215.165.65
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1197031835 10563 127.0.0.1 (7 Dec 2007 12:50:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 7 Dec 2007 12:50:35 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b40g2000prf.googlegroups.com; posting-host=218.215.165.65;
     posting-account=LRLqpgkAAACt8OsWZnclc0j8ufDGwSA0
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14798

On Dec 6, 8:53 am, electroc...@gmail.com wrote:
> On 5 d=E9c, 01:14, geek <g...@localhost.localdomain> wrote:
>
> > Hi,
>
> > If worst comes to worst, it crosses to a NTE88. That might be easier to
> > find.
>
> > Cheers,
> > __
> > Gregg
>
> I know but I really want the original drivers. These NTE are drivers
> that CAN replace but doesn't necessarily carry same exact
> specifications. I want to still use the other set for the negative
> side so I want matched pairs.

If you think that having the original transistors will keep the "sonic purity" (is that the right phrase? - bit out of touch with hifi voodoospeak) of your amplifier, theres no hope for you - at least, not in a science/technology oriented group.

I too like Sansui amplifiers - the last one I had, I stripped it down, got a grunty,high current power supply for a AM transmitter I am making....nice big power transformer, big can electros on each rail...cut up the chassis to make it modular for future projects. Used the heatsinks and some of the output transistors for the modulator amplifier. Sundry resistors etc, and the nuts/bolts/screws helped with the hardware.

And it was working, but the AM transmitter project was MUCH more
interesting....

Andrew VK3BFA.

```
From 850853268133365282
X-Google-Thread: fc2a5,61612928ba9c6220
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!d21g2000prf.googlegroups.com!not-for-
mail
From: Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2SB545A
Date: Fri, 7 Dec 2007 05:13:55 -0800 (PST)
Organization: http://groups.google.com
Lines: 57
Message-ID: <bd5557cb-60d4-46ab-91be-ddb9e23c5177@d21g2000prf.googlegroups.com>
References: <506398ea-281e-40f0-9571-84c5ec4a29e1@d61g2000hsa.googlegroups.com>
     <pan.2007.12.05.06.14.48.803153@localhost.localdomain> <2b8db004-ad3f-4821-
a238-499130306ce9@d4g2000prg.googlegroups.com>
     <ee63501d-32d0-4144-9709-95ddebc48a15@b40g2000prf.googlegroups.com>
NNTP-Posting-Host: 218.215.165.65
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1197033235 15378 127.0.0.1 (7 Dec 2007 13:13:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 7 Dec 2007 13:13:55 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d21g2000prf.googlegroups.com; posting-host=218.215.165.65;
     posting-account=LRLqpgkAAACt8OsWZnclc0j8ufDGwSA0
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14799

On Dec 7, 11:50 pm, Andrew VK3BFA <vk3...@hotmail.com> wrote:
> On Dec 6, 8:53 am, electroc...@gmail.com wrote:
>
> > On 5 d=E9c, 01:14, geek <g...@localhost.localdomain> wrote:
>
> > > Hi,
>
> > > If worst comes to worst, it crosses to a NTE88. That might be easier t=
o
> > > find.
>
> > > Cheers,
> > > __
> > > Gregg
```

>
> > I know but I really want the original drivers. These NTE are drivers
> > that CAN replace but doesn't necessarily carry same exact
> > specifications. I want to still use the other set for the negative
> > side so I want matched pairs.
>
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> voodoospeak) of your amplifier, theres no hope for you - at least, not
> in a science/technology oriented group.
>
> I too like Sansui amplifiers - the last one I had, I stripped it down,
> got a grunty,high current power supply for a AM transmitter I am
> making....nice big power transformer, big can electros on each
> rail...cut up the chassis to make it modular for future projects. Used
> the heatsinks and some of the output transistors for the modulator
> amplifier. Sundry resistors etc, and the nuts/bolts/screws helped with
> the hardware.
>
> And it was working, but the AM transmitter project was MUCH more
> interesting....
>
> Andrew VK3BFA.

Well, your in luck - went out to the workshop, checked the plastic
crate holding the unused bits of the stripped Sansui amp. Got at least
2 of the 2SB545A ,possibly more - will check, but can guarantee two of
them...- no idea if their matched, I didnt pair them when I stripped
it (wanted to cut off a piece of the original TO3 mounting plate to
machine a heatsink bracket for the new modulator amp, but then its
highly unlikely Sansui matched them anyway - they are from the same
batch though...) And it was working when I stripped it down - got
enough audio stuff here anyway, so it was no great sacrifice...

Give me your postal address off group, will send them over to you.
When you get them, send me some American dollar bills for the marked
postage cost....mark the email 2sb545 so I dont spam it...

And yes, was stirring you re the amp - as a working tech, its common
to do transistor substitutions for unobtainable parts.....and I think
Canadians have a reasonable sense of humour........

Andrew VK3BFA.

From -4970181036706008485
X-Google-Thread: fc2a5,5054d2d8aad555a3,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe09.lga.POSTED!53ab2750!not-for-mail
From: Jeff James <w2nbc@optonline.net>
User-Agent: Thunderbird 2.0.0.9 (Windows/20071031)

MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Free Classifieds for Parts and Tube Gear!
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 6
Message-ID: <i3c6j.13$r84.11@newsfe09.lga>
NNTP-Posting-Host: 68.196.6.3
X-Complaints-To: abuse@cv.net
X-Trace: newsfe09.lga 1197034830 68.196.6.3 (Fri, 07 Dec 2007 06:40:30 MST)
NNTP-Posting-Date: Fri, 07 Dec 2007 06:40:30 MST
Organization: Optimum Online
Date: Fri, 07 Dec 2007 08:40:30 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:14800

The Boatanchor Classifieds..
Free classifieds dedicated to vintage Shortwave and Amateur Radio..

http://www.dealamerica.com/deal/cgi-bin/ads/bcads.cgi

Thanks for your support!

From -2599206668374461441
X-Google-Thread: fc2a5,61612928ba9c6220
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!newsfeed.hal-mli.net!
feeder1.hal-mli.net!news.alt.net!sn-xt-sjc-04!sn-xt-sjc-09!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2SB545A
Date: Fri, 07 Dec 2007 08:31:29 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13lim293at24i49@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <506398ea-281e-40f0-9571-84c5ec4a29e1@d61g2000hsa.googlegroups.com>
     <pan.2007.12.05.06.14.48.803153@localhost.localdomain> <2b8db004-ad3f-4821-
a238-499130306ce9@d4g2000prg.googlegroups.com>
<ee63501d-32d0-4144-9709-95ddebc48a15@b40g2000prf.googlegroups.com>
<bd5557cb-60d4-46ab-91be-ddb9e23c5177@d21g2000prf.googlegroups.com>
In-Reply-To: <bd5557cb-60d4-46ab-91be-ddb9e23c5177@d21g2000prf.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 9
Xref: g2news1.google.com rec.radio.amateur.homebrew:14801

Andrew VK3BFA wrote:

<snip>
> When you get them, send me some American dollar bills for the marked
> postage cost....mark the email 2sb545 so I dont spam it...

I thought the Canadian dollar was stronger right now ;-)

Michael

```
From 2524829147605144615
X-Google-Thread: fc2a5,61612928ba9c6220
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d4g2000prg.googlegroups.com!not-for-
mail
From: Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 2SB545A
Date: Fri, 7 Dec 2007 06:33:19 -0800 (PST)
Organization: http://groups.google.com
Lines: 16
Message-ID: <56591949-7a15-4773-a9c0-0e648632ce2e@d4g2000prg.googlegroups.com>
References: <506398ea-281e-40f0-9571-84c5ec4a29e1@d61g2000hsa.googlegroups.com>
     <pan.2007.12.05.06.14.48.803153@localhost.localdomain> <2b8db004-ad3f-4821-
a238-499130306ce9@d4g2000prg.googlegroups.com>
     <ee63501d-32d0-4144-9709-95ddebc48a15@b40g2000prf.googlegroups.com>
     <bd5557cb-60d4-46ab-91be-ddb9e23c5177@d21g2000prf.googlegroups.com>
     <13lim293at24i49@corp.supernews.com>
NNTP-Posting-Host: 218.215.165.65
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1197037999 31731 127.0.0.1 (7 Dec 2007 14:33:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 7 Dec 2007 14:33:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d4g2000prg.googlegroups.com; posting-host=218.215.165.65;
     posting-account=LRLqpgkAAACt8OsWZnclc0j8ufDGwSA0
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.11)
     Gecko/20071127 Firefox/2.0.0.11,gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14802
```

On Dec 8, 1:31 am, msg <msg@_cybertheque.org_> wrote:
> Andrew VK3BFA wrote:
>
> <snip>
>
> > When you get them, send me some American dollar bills for the marked
> > postage cost....mark the email 2sb545 so I dont spam it...
>
> I thought the Canadian dollar was stronger right now ;-)

>
> Michael

It may be - but the American "Green Stamp" is still a universal
currency, useful for getting QSL cards....

Andrew VK3BFA.

From -7347783324628003739
X-Google-Thread: fc2a5,1ac0abbd5951fe74
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.germany.com!border1.nntp.ams.giganews.com!border2.nntp.ams.giganews.com!nntp.giganews.com!sn-xt-ams-06!sn-xt-ams-05!sn-ams!sn-feed-ams-02!sn-post-ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DSP ideas wanted AND opinions on DSP software
Date: Fri, 07 Dec 2007 14:39:29 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13ljbk8bto28668@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <13lh4e1q62msf50@corp.supernews.com> <fn2n25-s31.ln1@remote.clifto.com>
In-Reply-To: <fn2n25-s31.ln1@remote.clifto.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 17
X-Original-Bytes: 1229
Xref: g2news1.google.com rec.radio.amateur.homebrew:14803

clifto wrote:

> msg wrote:
>
>>I would appreciate advice on features desirable in a DSP audio
>>processor unit.
>
>
> Dual notch. Dual autonotch would be cool.
>

Thanks, will try.

On the other topic, anyone have _any_ experience with general-purpose PC DSP software?

Michael

From -5812040187571426131
X-Google-Thread: fc2a5,a3c072c064519ec9,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe02.lga.POSTED!
53ab2750!not-for-mail
From: "W7CXA" <w7cxa@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: 3 tube am 75 meter mobile
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <%GT6j.8$yk6.7@newsfe02.lga>
NNTP-Posting-Host: gbngdjhlcagmliioigflmgepiopgbgog
X-Trace:
pdjoodfomhkjcooblbdnpiohcfhaihogplohacoceddgpjhegbngdjhlcagmliionlkdhhdbbkbgjedopo
cfdefmejabebcjcomcnchbkaojaijiggdcmjohgjjhpnjjgmigicagmhckjgnm
NNTP-Posting-Date: Sun, 09 Dec 2007 08:18:19 MST
Date: Sun, 9 Dec 2007 07:15:04 -0800
Xref: g2news1.google.com rec.radio.amateur.homebrew:14804

I am looking for information on a 3 tube 75 meter am transmitter that was around about 1958. Two of the tubes were 6146, one for modulator and one for final. I cant remember what the oscillator was.

J. Andy Thompson
W7CXA
Yakima, WA
ayeee@charter.net

From 925720588607836082
X-Google-Thread: fc2a5,a3c072c064519ec9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3 tube am 75 meter mobile
Date: 9 Dec 2007 22:26:40 GMT
Lines: 21
Message-ID: <slrnfloqt0.1s2a.bit-bucket@shell.config.com>
References: <%GT6j.8$yk6.7@newsfe02.lga>

X-Trace: individual.net R/SLyyVP0GpxaauT9Ihg9ACsL1oxy9WgMi9Subc5ZOwuOAUDUF
Cancel-Lock: sha1:mre1z5peHA8PwGk4TNidbENdzEA=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14805

On Sun, 9 Dec 2007 07:15:04 -0800, W7CXA wrote:
> I am looking for information on a 3 tube 75 meter am transmitter that was
> around about 1958. Two of the tubes were 6146, one for modulator and one
> for final. I cant remember what the oscillator was.

I see nothing close to your description in the 1957 ARRL Handbook -
in either the "Mobile Equipment" section, nor the "HF Transmitter"
section.

Or, are you referring to a piece of commercial gear?

There was no osc. buffer, and no mic. preamp?

```
     (I did run across an ad for Burstein-Applebee.
      Now, _that_ *really* brings back memories!     )
73
Jonesy
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    *** Killfiling google posts: <http://jonz.net/ng.htm>
```

From 7495927413570305362
X-Google-Thread: fc2a5,779ea76c59b08b53
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y43g2000hsy.googlegroups.com!not-for-mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where can I get aluminium foil (0.5 cm thickness) for Homebrew
     Butterfly Capacitor
Date: Sun, 9 Dec 2007 14:32:10 -0800 (PST)
Organization: http://groups.google.com
Lines: 50
Message-ID: <c7ace112-c2cc-48e9-9f15-f0cc0f87dc50@y43g2000hsy.googlegroups.com>
References: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>
     <gMWdnbZF1ZceW8jaRVnyvQA@pipex.net>
NNTP-Posting-Host: 89.211.4.3
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1197239530 24411 127.0.0.1 (9 Dec 2007 22:32:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 9 Dec 2007 22:32:10 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: y43g2000hsy.googlegroups.com; posting-host=89.211.4.3;

```
     posting-account=UK_CnQoAAADvwpneBBPBQf8pgC_pYRd5
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT
     5.1),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14806

On Dec 5, 12:29 am, charlie <wehates...@wymsey.co.uk> wrote:
> lw3...@googlemail.com wrote:
> > Hello,
>
> > I found this very nice website with a section about Homebrew Butterfly
> > Capacitor with many photographs.
>
> >http://hps.infolink.com.br/py1ahd/gallery21.htm
>
> > Does anybody knows where in UK (preferrable in Dorset or London) can I
> > get aluminum foil, 0.5 centimeters thickness?
>
> > 73's DX
>
> > Marcelo
> > LW3EOV/GB
>
> Marcello,
>
> Talk to Squires Models & Craft Tools, 100 London Rd, Bognor Regis,
> West Sussex, PO21 1DD. Tel: 01243 842424, Fax: 01243 842525
>
> They have:
>
> Brass sheet, 4" x 10" X 0.005, 0.010, 0.015, 0.032, inches thick
>
> Copper sheet, 4" x 10" X 0.025 inches thick
>
> Aluminium sheet 4" x 10" X 0.016, 0.032, 0.064, inches thick.
>
> Sorry, I will leave you do convert to metric :)
>
> I think that you will find this kind of material at any decent model
> shop.
>
> Rapid Electronics,www.rapidonline.com, has aluminium sheet 0.5m x
> 0.5m x 0.8mm & 1.2mm, also 0.1mm brass sheet x A4 or A3.
>
> Charlie.
>
> --
> M0WYMwww.radiowymsey.org- Hide quoted text -
>
> - Show quoted text -

Rough and ready. One inch is 'about' 25mm?
So 0.5 mm = 1/50th of inch?
```

Which = 0.02 inches?
That correct?
So 0.016" would be close????????????

From -5906635343837492905
X-Google-Thread: fc2a5,779ea76c59b08b53
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 10 Dec 2007 05:58:59 -0600
Date: Mon, 10 Dec 2007 11:58:58 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where can I get aluminium foil (0.5 cm thickness) for Homebrew
  Butterfly Capacitor
References: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>
     <gMWdnbZF1ZceW8jaRVnyvQA@pipex.net> <c7ace112-c2cc-48e9-9f15-
f0cc0f87dc50@y43g2000hsy.googlegroups.com>
In-Reply-To: <c7ace112-c2cc-48e9-9f15-f0cc0f87dc50@y43g2000hsy.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <nYKdnUOvXv6et8DanZ2dnUVZ_ournZ2d@bright.net>
Lines: 21
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-wYwweOkjFL0dBp+lS21yR+kqPyODqgD02WkG+dJ/
yEerBfDiEICKFQHN7Aw9Hu3tIdDMgSzDbf7W3cA!MM9aIJdyXFJtLHmtKHtKl2tXeNW/
sJuc7ljSVgfLESurloPxWpoqNXlTURf24mdCI8cdkp2y1gw0!847VDB/r+w==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14807

Here in the USA, 0.020" aluminum is a standard thickness.

http://www.aircraftspruce.com/catalog/mepages/alumsheet_2024t3.php

Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

```
terry wrote:


>
>
> Rough and ready. One inch is 'about' 25mm?
> So 0.5 mm = 1/50th of inch?
> Which = 0.02 inches?
> That correct?
> So 0.016" would be close????????????

--



From -1727269202975684047
X-Google-Thread: fc2a5,779ea76c59b08b53
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l1g2000hsa.googlegroups.com!not-for-
mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where can I get aluminium foil (0.5 cm thickness) for Homebrew
     Butterfly Capacitor
Date: Mon, 10 Dec 2007 05:16:28 -0800 (PST)
Organization: http://groups.google.com
Lines: 22
Message-ID: <b54b6a9f-ddfa-4bac-9a74-4378df1d22b3@l1g2000hsa.googlegroups.com>
References: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>
     <gMWdnbZF1ZceW8jaRVnyvQA@pipex.net> <c7ace112-c2cc-48e9-9f15-
f0cc0f87dc50@y43g2000hsy.googlegroups.com>
     <nYKdnUOvXv6et8DanZ2dnUVZ_ournZ2d@bright.net>
NNTP-Posting-Host: 97.84.159.244
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1197292589 6641 127.0.0.1 (10 Dec 2007 13:16:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 10 Dec 2007 13:16:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: l1g2000hsa.googlegroups.com; posting-host=97.84.159.244;
     posting-account=K8YolwoAAADy0A2iW37gF9k2mykeXqaI
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; IEMB3; IEMB3),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14808

On Dec 10, 6:58 am, Scott <acepi...@bloomer.net> wrote:
> Here in the USA, 0.020" aluminum is a standard thickness.
>
> http://www.aircraftspruce.com/catalog/mepages/alumsheet_2024t3.php
>
> Scotthttp://corbenflyer.tripod.com/
```

> Gotta Fly or Gonna Die
> Building RV-4 (Super Slow Build Version)
>
> terry wrote:
>
> > Rough and ready. One inch is 'about' 25mm?
> > So 0.5 mm = 1/50th of inch?
> > Which = 0.02 inches?
> > That correct?
> > So 0.016" would be close????????????
>
> --

Uuuh, I thought the OP said .5 CM, not MM... Slight difference by X10

denny

From -1248112664029520557
X-Google-Thread: fc2a5,a3c072c064519ec9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d61g2000hsa.googlegroups.com!not-for-mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3 tube am 75 meter mobile
Date: Mon, 10 Dec 2007 05:28:19 -0800 (PST)
Organization: http://groups.google.com
Lines: 34
Message-ID: <be78251f-d2ed-423b-ad2e-fe0276ad190b@d61g2000hsa.googlegroups.com>
References: <%GT6j.8$yk6.7@newsfe02.lga> <slrnfloqt0.1s2a.bit-bucket@shell.config.com>
NNTP-Posting-Host: 97.84.159.244
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1197293299 8815 127.0.0.1 (10 Dec 2007 13:28:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 10 Dec 2007 13:28:19 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: d61g2000hsa.googlegroups.com; posting-host=97.84.159.244;
     posting-account=K8YolwoAAADy0A2iW37gF9k2mykeXqaI
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; IEMB3; IEMB3),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14809

On Dec 9, 5:26 pm, Allodoxaphobia <bit-buc...@config.com> wrote:
> On Sun, 9 Dec 2007 07:15:04 -0800, W7CXA wrote:
> > I am looking for information on a 3 tube 75 meter am transmitter that was
> > around about 1958. Two of the tubes were 6146, one for modulator and one
> > for final. I cant remember what the oscillator was.

```
>
> I see nothing close to your description in the 1957 ARRL Handbook -
> in either the "Mobile Equipment" section, nor the "HF Transmitter"
> section.
>
> Or, are you referring to a piece of commercial gear?
>
> There was no osc. buffer, and no mic. preamp?
>
>         (I did run across an ad for Burstein-Applebee.
>          Now, _that_ *really* brings back memories!     )
> 73
> Jonesy
> --
>   Marvin L Jones    | jonz          | W3DHJ  | linux
>    38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
>     *** Killfiling google posts: <http://jonz.net/ng.htm>

Yup, good memories...
However, ARRL was not the sole source of info... I vaguely remember a
quick-n-dirty mobile AM with 3 tubes...  But, why worry about what was
published then.. We can cobble up something similar today on our
own... Use a VXO for the vfo oscillator to make it stable under
modulation peaks...   Use screen grid modulation...  Won't need a 6146
for the modulator, a 12AX7 should do (I'd have to research that, so
don't take it for gospel)
OTOH, the nice nursey says I need to take my pills now...

denny / k8do


From -5304830515684309485
X-Google-Thread: fc2a5,779ea76c59b08b53
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where can I get aluminium foil (0.5 cm thickness) for Homebrew
Butterfly Capacitor
Date: 10 Dec 2007 15:00:06 GMT
Lines: 21
Message-ID: <slrnflql3m.2d1h.bit-bucket@shell.config.com>
References: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>
<gMWdnbZF1ZceW8jaRVnyvQA@pipex.net> <c7ace112-c2cc-48e9-9f15-
f0cc0f87dc50@y43g2000hsy.googlegroups.com>
<nYKdnUOvXv6et8DanZ2dnUVZ_ournZ2d@bright.net> <b54b6a9f-
ddfa-4bac-9a74-4378df1d22b3@l1g2000hsa.googlegroups.com>
X-Trace: individual.net zjUzoq/MqVBak+nEhhe/2QHHrNV4xEp421yMHp+n4tf8dlAo9y
Cancel-Lock: sha1:dgfMkQVoXx8wawpAznKeUcYJzu0=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14810
```

On Mon, 10 Dec 2007 05:16:28 -0800 (PST), Denny wrote:
> On Dec 10, 6:58 am, Scott <acepi...@bloomer.net> wrote:
>> Here in the USA, 0.020" aluminum is a standard thickness.
>>
>> http://www.aircraftspruce.com/catalog/mepages/alumsheet_2024t3.php
>>
>> Scotthttp://corbenflyer.tripod.com/
>> Gotta Fly or Gonna Die
>> Building RV-4 (Super Slow Build Version)
>>
>> terry wrote:
>>
>> > Rough and ready. One inch is 'about' 25mm?
>> > So 0.5 mm = 1/50th of inch?
>> > Which = 0.02 inches?
>> > That correct?
>> > So 0.016" would be close????????????
>
> Uuuh, I thought the OP said .5 CM, not MM... Slight difference by X10

Uuuh, if you had been reading _all_ the thread.

From -8661760258708104590
X-Google-Thread: fc2a5,a355a1b7b5491592
X-Google-Thread: 1159c6,a355a1b7b5491592
X-Google-Attributes: gidfc2a5,gid1159c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Koltner" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.cad
Subject: Re: "MARTHA" RF/Microwave CAD Using APL -- Free!
Date: Mon, 10 Dec 2007 10:53:14 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13lr2or2n54f8de@corp.supernews.com>
References: <w5mdnZM9gtYe9c7anZ2dnUVZ_tXinZ2d@rcn.net> <2933aefb-5594-450d-b14c-c532788ac93b@s36g2000prg.googlegroups.com> <Rq6dnXcNteMZwcranZ2dnUVZ_t6onZ2d@rcn.net> <d6e03b61-95bf-45fb-b4b4-83fcd57a147d@s19g2000prg.googlegroups.com> <So-dnXw9HPDLasranZ2dnUVZ_hSdnZ2d@rcn.net> <13lgbuie6bdq082@corp.supernews.com> <nL2dndeq2pWLosXanZ2dnUVZ_oGjnZ2d@rcn.net> <b2871396-e387-44cf-8031-1785b53e71cf@e10g2000prf.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-Complaints-To: abuse@supernews.com
Lines: 35
Xref: g2news1.google.com rec.radio.amateur.homebrew:14811 sci.electronics.cad:8948

"Marra" <cresswellavenue@talktalk.net> wrote in message news:b2871396-e387-44cf-8031-1785b53e71cf@e10g2000prf.googlegroups.com...

>I suspect a lot of these old and free PCB CAD packages are not taking full advantage of the current PC hardware.

Possibly true, although I can comment that "PCB Artist" which is the free PCB package Advanced Circuits has wouldn't fall into that category: It's really a version of EasyPC (from Number One Systems / WestDev) in disguise, and quite sophisticated.

> PC's have bags of memory now so the old pin limited packages are out of date.

Pin limiting has, in the past decade or so, always been a means of artificially restricting users based on how much they were willing to pay for a license and has nothing to do with not taking advantage of the hardware.

> Things like vast processing power can be done to do things like auto placing of components.

I've yet to see an auto-placer that's worth using, but I'd admit that I haven't used yours.

> In my software I also added right click context menus which are very user friendly.

Most Windows software did this around 1995-2000...

(Of course, there's still overpriced stuff like PADS out there that TO THIS VERY DAY cannot be installed in a directory that has a space in its names... like, oh, say, c:\program files...)

---Joel

From -3421511453835657165
X-Google-Thread: fc2a5,779ea76c59b08b53
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!sn-xt-sjc-04!sn-xt-sjc-10!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where can I get aluminium foil (0.5 cm thickness) for Homebrew Butterfly Capacitor
Date: Mon, 10 Dec 2007 11:15:57 -0800
Organization: Home for Obscure Mythical Beings
Message-ID: <dsf035-mp3.ln1@radagast.org>
References: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com> <c7ace112-c2cc-48e9-9f15-f0cc0f87dc50@y43g2000hsy.googlegroups.com> <nYKdnUOvXv6et8DanZ2dnUVZ_ournZ2d@bright.net> <b54b6a9f-

ddfa-4bac-9a74-4378df1d22b3@l1g2000hsa.googlegroups.com>
X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
X-Complaints-To: abuse@supernews.com
Lines: 17
Xref: g2news1.google.com rec.radio.amateur.homebrew:14812

In article <b54b6a9f-ddfa-4bac-9a74-4378df1d22b3@l1g2000hsa.googlegroups.com>,
Denny <k8do@mailblocks.com> wrote:

>Uuuh, I thought the OP said .5 CM, not MM... Slight difference by X10

He did say .5 cm. So did the web page he was citing. It's pretty clear from looking at the picture of the capacitor that .5 cm is out of the question, and must be a typo on the original web page, while 0.5 mm is quite reasonable for a capacitor of that construction and size.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From -8298884026398151401
X-Google-Thread: fc2a5,779ea76c59b08b53
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 10 Dec 2007 17:25:44 -0600
Date: Mon, 10 Dec 2007 23:25:44 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where can I get aluminium foil (0.5 cm thickness) for Homebrew
  Butterfly Capacitor
References: <95b4bbf3-f392-41a3-9ac3-b33c933f6e59@a39g2000pre.googlegroups.com>
     <gMWdnbZF1ZceW8jaRVnyvQA@pipex.net> <c7ace112-c2cc-48e9-9f15-f0cc0f87dc50@y43g2000hsy.googlegroups.com>
<nYKdnUOvXv6et8DanZ2dnUVZ_ournZ2d@bright.net> <b54b6a9f-ddfa-4bac-9a74-4378df1d22b3@l1g2000hsa.googlegroups.com>
In-Reply-To: <b54b6a9f-ddfa-4bac-9a74-4378df1d22b3@l1g2000hsa.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <A6ydnTGuVdVlV8DanZ2dnUVZ_g6dnZ2d@bright.net>

Lines: 40
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-lhCKm2D8FV8wUuDFvMgcEuG9f/+6qPRvCqzl5Ey78ED/IBg+
+J4bTkwdsIHfevMeRWWQOfD+oYHo96m!
8HyCkaS9utTYYBoV92MGb5I29wLJgTtIesZcp4THQLq6RjsE9tEKiDQZ2wdRN6vOmZ0+7IUePoxz!
MTowdgL/Ww==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14813

The post has been out there a while and we all assume it's a typo (I've never seen the original poster reply about that) but 1/2 a centimeter would make HUGE plates...1/2 a mm sounds MUCH more realistic...

Scott

Denny wrote:

> On Dec 10, 6:58 am, Scott <acepi...@bloomer.net> wrote:
>
>>Here in the USA, 0.020" aluminum is a standard thickness.
>>
>>http://www.aircraftspruce.com/catalog/mepages/alumsheet_2024t3.php
>>
>>Scotthttp://corbenflyer.tripod.com/
>>Gotta Fly or Gonna Die
>>Building RV-4 (Super Slow Build Version)
>>
>>terry wrote:
>>
>>
>>>Rough and ready. One inch is 'about' 25mm?
>>>So 0.5 mm = 1/50th of inch?
>>>Which = 0.02 inches?
>>>That correct?
>>>So 0.016" would be close????????????
>>
>>--
>
>
> Uuuh, I thought the OP said .5 CM, not MM... Slight difference by X10
>
> denny

--
Scott
http://corbenflyer.tripod.com/

From -9000661684319916599
X-Google-Thread: fc2a5,a3c072c064519ec9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!sn-xt-sjc-04!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3 tube am 75 meter mobile
Date: Mon, 10 Dec 2007 21:14:59 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13ls76h3qfjkpbc@corp.supernews.com>
References: <%GT6j.8$yk6.7@newsfe02.lga>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 17
Xref: g2news1.google.com rec.radio.amateur.homebrew:14814

I do not remember a 3 tube transmitter using 2 6146 tubes. I question that arrangement, because the 6146 modulator would be running class A and very inefficient.

However, I am familiar with a 2 tube transmitter using a 6146 final. It was very effective and a lot of hams built one. It was called the "Golden Gate" circuit, because it was popular in San Francisco.

Using1/2 of a 12AT7 for a crystal controlled oscillator, driving a 6146, it was screen modulated by the other 1/2 of the 12AT7. Used a carbon mike and step up transformer.

It appeared in the "New" CQ Mobile Handbook, second edition - 1956.

73, Colin K7FM

From 5525511359561645172
X-Google-Thread: fc2a5,a3c072c064519ec9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e23g2000prf.googlegroups.com!not-for-mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: 3 tube am 75 meter mobile
Date: Tue, 11 Dec 2007 04:45:43 -0800 (PST)
Organization: http://groups.google.com
Lines: 12
Message-ID: <9011a96a-4031-4573-ac66-a0f7cce52c70@e23g2000prf.googlegroups.com>
References: <%GT6j.8$yk6.7@newsfe02.lga> <13ls76h3qfjkpbc@corp.supernews.com>
NNTP-Posting-Host: 97.84.159.244
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1197377144 1191 127.0.0.1 (11 Dec 2007 12:45:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 11 Dec 2007 12:45:44 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: e23g2000prf.googlegroups.com; posting-host=97.84.159.244;
     posting-account=K8YolwoAAADy0A2iW37gF9k2mykeXqaI
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322; IEMB3; IEMB3),gzip(gfe),gzip(gfe)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14815

>
> It appeared in the "New" CQ Mobile Handbook, second edition - 1956.
>
> 73, Colin K7FM

I said the memory was vague... But I believe you have described what
I vaguely remembered...
Yup, that should work... And it will work today, still... A VXO will
give you a bit more flexibility fro todays crowded bands...

denny / k8do

From 4347533085910956700
X-Google-Thread: fc2a5,87982d325063e226
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!sn-xt-sjc-04!sn-xt-sjc-07!sn-xt-sjc-10!
sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: David Harmon <source@netcom.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PCB Layout S/W Recmondations?
Date: Tue, 13 Nov 2007 20:07:05 -0800
Organization: I support http://www.answers.com/topic/boulder-pledge
Message-ID: <13jkt5lco67ea0@corp.supernews.com>
Reply-To: "Newsgroup only please, address is no longer replyable."
<bad@example.invalid>
References: <Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70>
<ox6_i.1105$OJ.401@trndny06> <Xns99E76A57EFF98johntartaryahoocom@216.168.3.70>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 7
Xref: g2news1.google.com rec.radio.amateur.homebrew:14665

On Tue, 13 Nov 2007 18:26:51 -0000 in rec.radio.amateur.homebrew, John
Tartar <john_tartar@yahoo.com> wrote,
>4) I'm off to try Eagle that Tim receomnded, 80x100mm 2 payer boards are
>fine, all my designs are in PCB Expresses miniboard format.

I am also happy with the free version of Eagle, and I have run it under
Windows 98 in the past.

From -4736825880854657099
X-Google-Thread: fc2a5,87982d325063e226
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-02!sn-xt-sjc-07!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: "Joel Koltner" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PCB Layout S/W Recmondations?
Date: Wed, 14 Nov 2007 09:04:43 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13jmald1k5qe754@corp.supernews.com>
References: <Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70>
<ox6_i.1105$OJ.401@trndny06> <Xns99E76A57EFF98johntartaryahoocom@216.168.3.70>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 28
Xref: g2news1.google.com rec.radio.amateur.homebrew:14666

"John Tartar" <john_tartar@yahoo.com> wrote in message
news:Xns99E76A57EFF98johntartaryahoocom@216.168.3.70...
> 1) gEDA appears to be only for Linux & Mac.

People occasionally threaten to do Windows ports and some even begin, but
yeah, it doesn't exact seem to be "well supported" under Windows.

> 2) I installed PCB artist, but thee's no component libraries, and the
> prices for the small runs are about $100 higher than Express PCB

Advanced Circuits will sell you 3 PCBs up to 60 sq. inches on a 2-layer board
for $99 (http://www.4pcb.com/index.php?load=content&page_id=130) ... if you
can de-panelize them yourself, it might be cheaper that way.

> 3) I'm not doing this for porfit, Ham radio is my hobby not my job, so
> anything boards I make I will either give away, or sell at cost.

If you're going to sell them anyway, I can't imagine anyone will protest if
you tack on something extra to begin upgrading your software or hardware. :-)

> 4) I'm off to try Eagle that Tim receomnded, 80x100mm 2 payer boards are
> fine, all my designs are in PCB Expresses miniboard format.

Eagle is good...

---Joel

From 4607333185936241948
X-Google-Thread: fc2a5,40419db7989795f0,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.clear.net.nz!news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 15 Nov 2007 15:44:48 -0600
From: miken <mnewman@clear.net.nz>
Newsgroups: rec.radio.amateur.homebrew
Subject: Radcom April 2007
Date: Fri, 16 Nov 2007 10:45:07 +1300
Message-ID: <h8fpj3t2vv83cjgbefdvk4tq8l0h1nhum1@4ax.com>
X-Newsreader: Forte Free Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Original-NNTP-Posting-Host: 203-167-131-58.dialup.clear.net.nz
X-Original-Trace: 16 Nov 2007 10:44:45 +1300, 203-167-131-58.dialup.clear.net.nz
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 7
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-AuthenticatedUsername: news10531
X-Trace: sv3-LXmHTp4/6DS4MVWJAaftaudb2M9LjS7TIicuYILnOv/WOl1XTq1/
Lc6TS66pRmfVWVeJNeVTQqnTips!9OEmXQbmCn9trVdRjvA/
iiM8kMygSA7H7csMNBHYK3O5OYcZbu4wX29pNPbmO5p8Ma3G041xIRso!6lJ4vkw=
X-Complaints-To: abuse@clear.net.nz
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com rec.radio.amateur.homebrew:14667

Could someone who has a copy of the April 2007 issue of Radcom please scan and forward to me a copy of the contents page.

RSGB failed to send a number of issues to ZL members this year, and suggested I "borrow a copy from my friend". His didn't arrive either.

Thanks de miken,   zl1bnb

```
From -6543943481554754363
X-Google-Thread: fc2a5,f8b610b6b08c3fc3,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!
news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 15 Nov 2007 17:30:50 -0600
From: miken <mnewman@clear.net.nz>
Newsgroups: rec.radio.amateur.homebrew
Subject: Opening crystal filter can
Date: Fri, 16 Nov 2007 12:31:01 +1300
Message-ID: <38lpj35vu9pgk94qbq9t77elm0odhci2al@4ax.com>
X-Newsreader: Forte Free Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Original-NNTP-Posting-Host: 203-167-131-36.dialup.clear.net.nz
X-Original-Trace: 16 Nov 2007 12:30:46 +1300, 203-167-131-36.dialup.clear.net.nz
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 13
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-AuthenticatedUsername: news10531
X-Trace: sv3-gOffrgNA7OwqzDkpgzK7lC1+jD5ojcONmMDvMbuDx/ZvHmi4bkix3OEUnjpBpW/
uEXhpCgUfTUFhIEB!
aXpl4RLfE3cyBIoI47lbu4wfSAZcRKDqT3ouMrsa+rRptAR+hMAYIAtvcr2PPFUXqGOvVmgPQOYG!
QgOdWD8=
X-Complaints-To: abuse@clear.net.nz
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14668
```

I've got a number of small 10.7 Mhx FM bandwidth crystal filters I want to dismantle to recover the crystals for making a narrower bandwidth filter.

What is the best way to open the can? I have a small butane torch which I could use to try and melt the solder the joint around the perimeter of the base of the can, but I don't want to harm the crystals.

Does anyone have any experience of this, and would I perhaps be better
to hack the end off the can, and get into it that way.

Thanks de miken,   zl1bnb

From -2815270314885036973
X-Google-Thread: fc2a5,f8b610b6b08c3fc3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out03b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!hwmnpeer01.phx!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe18.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <38lpj35vu9pgk94qbq9t77elm0odhci2al@4ax.com>
Subject: Re: Opening crystal filter can
Lines: 31
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <7Q5%i.3246$gd3.706@newsfe18.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: admin@cox.net
X-Trace: newsfe18.lga 1195174275 72.209.25.33 (Thu, 15 Nov 2007 17:51:15 MST)
NNTP-Posting-Date: Thu, 15 Nov 2007 17:51:15 MST
Organization: Cox
Date: Thu, 15 Nov 2007 19:51:14 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:14669

"miken" <mnewman@clear.net.nz> wrote in message
news:38lpj35vu9pgk94qbq9t77elm0odhci2al@4ax.com...
> I've got a number of small 10.7 Mhx FM bandwidth crystal filters I
> want to dismantle to recover the crystals for making a narrower
> bandwidth filter.
>
> What is the best way to open the can? I have a small butane torch
> which I could use to try and melt the solder the joint around the
> perimeter of the base of the can, but I don't want to harm the
> crystals.
>
> Does anyone have any experience of this, and would I perhaps be better
> to hack the end off the can, and get into it that way.
>
> Thanks de miken,   zl1bnb

Miken

Some of those FM IF filters used cascaded monolythic two-pole filters
with small matching capacitors between the sections. It may not be
a lattice filter like I suspect you are anticipating.

I've opened those cans by heating the seam with a large iron, just enough
to get a small screw blade started to gentle prying the seam apart.

Regards

Peter

```
From -2272588479640136185
X-Google-Thread: fc2a5,dd966ac27ac32b72,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!c30g2000hsa.googlegroups.com!not-for-
mail
From: Tom <holden_family@sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Beat modulation of IF by Product Detector?
Date: Thu, 15 Nov 2007 20:13:29 -0800 (PST)
Organization: http://groups.google.com
Lines: 30
Message-ID: <19837dfc-fbbb-4bad-a9e9-d3d964447bc6@c30g2000hsa.googlegroups.com>
NNTP-Posting-Host: 65.95.104.184
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1195186409 28435 127.0.0.1 (16 Nov 2007 04:13:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 16 Nov 2007 04:13:29 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: c30g2000hsa.googlegroups.com; posting-host=65.95.104.184;
     posting-account=dSeW1wgAAACmKsq9OPblBZ8hpo9AeSuQ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322),gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14670
```

1. I've been digging around in the receiver of my Yaesu FT-817ND
transceiver and simulating with LTspice the AGC and AM detectors to
investigate possible distortions due to non-linear loading of the IF
feed they share with the SSB/CW product detector when I chanced upon
an unexpected behaviour: the envelope of a CW IF signal at the input
of the product detector is amplitude-modulated by the beat frequency
output. The modulation is asymmetrical and distorted and is perhaps
only 5-10% deep but its fundamental component is clearly the beat
frequency. I presume that the output is therefore distorted to the

extent that the output amplitude at any time is somewhat proportional to the amplitude of the input envelope. Is that a reasonable supposition?

2. I suspect the cause is a dynamic load impedance of the product detector being fed by a high impedance IF source - a 100pF coupling capacitor (approx 3600Xc at 455kHz) preceded by an IF buffer amp with at least 1000R source impedance. The product detector is NJM2594, stated in the datasheet to have a 600R input resistance and schematics for test setups showing 50R sources. Is that a reasonable explanation? Are there any other probable causes?

3. If the hypothesis in 2 is correct, a probable solution would be to lower the source impedance and that of the coupling capacitor to something on the order of 50 Ohms. Is that a reasonable conclusion? Are there any other possible solutions?

I've posted an article to the Files section of the FT817 Yahoo!Group:
http://groups.yahoo.com/group/FT817/files/Audio%20Distortion%20-%20Receiver/Beat_Modulation_of_IF/

73, Tom VE3MEO

From 3195620343758797172
X-Google-Thread: fc2a5,f8b610b6b08c3fc3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!
news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 15 Nov 2007 23:15:52 -0600
From: miken <mnewman@clear.net.nz>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Opening crystal filter can
Date: Fri, 16 Nov 2007 18:16:10 +1300
Message-ID: <mg8qj3tkujrclv4nto34b2di7l0oneiecu@4ax.com>
References: <38lpj35vu9pgk94qbq9t77elm0odhci2al@4ax.com>
<7Q5%i.3246$gd3.706@newsfe18.lga>
X-Newsreader: Forte Free Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Original-NNTP-Posting-Host: 218-101-120-192.dialup.clear.net.nz
X-Original-Trace: 16 Nov 2007 18:15:49 +1300, 218-101-120-192.dialup.clear.net.nz
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 56
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-AuthenticatedUsername: news10531
X-Trace: sv3-
NeWvN+JUmYEganNG7+wqS6Y1RcRv8yNjJsKfHiKGsEpZo7fxDAUIyWcMr4iuf4qOZx53Vb942vCbyco!

ThEyxbsaQaCfRSTKuwlqIOlgKxPyTBFEgXeQTG5VsoP1dDEW03g/gW4yxWe/Med8SBXTHoVgJkTb!
9n7HlkU=
X-Complaints-To: abuse@clear.net.nz
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com rec.radio.amateur.homebrew:14671

On Thu, 15 Nov 2007 19:51:14 -0500, "Uncle Peter"
<radioconnection@cox.net> wrote:

>
>"miken" <mnewman@clear.net.nz> wrote in message
>news:38lpj35vu9pgk94qbq9t77elm0odhci2al@4ax.com...
>> I've got a number of small 10.7 Mhx FM bandwidth crystal filters I
>> want to dismantle to recover the crystals for making a narrower
>> bandwidth filter.
>>
>> What is the best way to open the can? I have a small butane torch
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>> Thanks de miken,   zl1bnb
>
>Miken
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>Some of those FM IF filters used cascaded monolythic two-pole filters
>with small matching capacitors between the sections. It may not be
>a lattice filter like I suspect you are anticipating.
>
>I've opened those cans by heating the seam with a large iron, just enough
>to get a small screw blade started to gentle prying the seam apart.
>
>Regards
>
>Peter
>

Thanks Peter for that advice.

I dug out the 100watt Solon iron I picked up at a flea market about three months ago, and followed your suggestion with a little bit of trepidation; it wasn't too difficult at all.

These filters have 4 crystals in a lattice configuration, with interconnecting capacitors and matching inductors at each end. The crystals are mounted on a small FR-4 pc board, which would seem to insulate them from the heat input into the can, so I doubt they would be heat-affected.

It seems to me that the filters with a casting resin filling in the base, rather than with a metal base soldered into place are more likely to be monolithic filters.

I'm sure I'll have enough to make the filter I need (for a Pic-a-Star).

Next step is to determine the crystal characteristics.

de miken, zl1bnb

From -2886228063406445815
X-Google-Thread: fc2a5,dd966ac27ac32b72
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i29g2000prf.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Beat modulation of IF by Product Detector?
Date: Thu, 15 Nov 2007 21:28:45 -0800 (PST)
Organization: http://groups.google.com
Lines: 58
Message-ID: <188bd42f-0794-41fa-bfd8-59f87505aa66@i29g2000prf.googlegroups.com>
References: <19837dfc-fbbb-4bad-a9e9-d3d964447bc6@c30g2000hsa.googlegroups.com>
NNTP-Posting-Host: 71.113.61.183
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1195190925 11540 127.0.0.1 (16 Nov 2007 05:28:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 16 Nov 2007 05:28:45 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: i29g2000prf.googlegroups.com; posting-host=71.113.61.183;
     posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.9)
     Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14672

On Nov 15, 8:13 pm, Tom <holden_fam...@sympatico.ca> wrote:

> 1. I've been digging around in the receiver of my Yaesu FT-817ND transceiver and simulating with LTspice the AGC and AM detectors to investigate possible distortions due to non-linear loading of the IF feed they share with the SSB/CW product detector when I chanced upon an unexpected behaviour: the envelope of a CW IF signal at the input of the product detector is amplitude-modulated by the beat frequency output. The modulation is asymmetrical and distorted and is perhaps

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> to the amplitude of the input envelope. Is that a reasonable
> supposition?
>
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> detector being fed by a high impedance IF source - a 100pF coupling
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> for test setups showing 50R sources. Is that a reasonable explanation?
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>
> 3. If the hypothesis in 2 is correct, a probable solution would be to
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> something on the order of 50 Ohms. Is that a reasonable conclusion?
> Are there any other possible solutions?
>
> I've posted an article to the Files section of the FT817 Yahoo!Group:http://groups.yahoo.com/group/FT817/files/Audio%20Distortion%20-%20Re...
>
> 73, Tom VE3MEO

Interesting that your posting should come just at this time. Perhaps a week ago I was looking at a Spice simulation of a mixer to baseband: really just a product detector. I noticed the same effect, and concluded that it is indeed due to the change in effective load impedance.

However, I do not believe that makes for distortion, directly. If the source is linear, the loading that depends on the relative phase between the LO and the IF signals does not cause distortion, just modulation. On the other hand, if the source impedance looking back into the IF is not constant with varying load, there will be distortion.

If my analysis is correct, then there is not a need to prevent the modulation of the IF output amplitude, at least not for the reason of preventing distortion. A way to check this would be to put in two signals and check the output for intermodulation products, or to just check the sinusoidal output (appropriately filtered to remove high frequency components) for harmonic distortion.

I'd be interested to know what more you learn about this. I may do some playing with it myself, since the answer may matter quite a lot to something I've just started working on.

Cheers,
Tom
@ K7ITM

From 5711492128293060354
X-Google-Thread: fc2a5,f8b610b6b08c3fc3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!
news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 16 Nov 2007 03:21:41 -0600
From: miken <mnewman@clear.net.nz>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Opening crystal filter can
Date: Fri, 16 Nov 2007 22:22:00 +1300
Message-ID: <e5oqj39lk0bit1np1concosig6vd7iu695@4ax.com>
References: <38lpj35vu9pgk94qbq9t77elm0odhci2al@4ax.com>
<7Q5%i.3246$gd3.706@newsfe18.lga> <mg8qj3tkujrclv4nto34b2di7l0oneiecu@4ax.com>
X-Newsreader: Forte Free Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Original-NNTP-Posting-Host: 203-167-131-193.dialup.clear.net.nz
X-Original-Trace: 16 Nov 2007 22:21:38 +1300, 203-167-131-193.dialup.clear.net.nz
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 12
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-AuthenticatedUsername: news10531
X-Trace: sv3-
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3Texnl8=
X-Complaints-To: abuse@clear.net.nz
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com rec.radio.amateur.homebrew:14673

On Fri, 16 Nov 2007 18:16:10 +1300, miken <mnewman@clear.net.nz>
wrote:

>These filters have 4 crystals in a lattice configuration, with
>interconnecting capacitors and matching inductors at each end. The
>crystals are mounted on a small FR-4 pc board, which would seem to

Correction --- The filters are LADDER configuration.

de miken, zl1bnb

From 6658418951734211767
X-Google-Thread: fc2a5,f8b610b6b08c3fc3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe21.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <38lpj35vu9pgk94qbq9t77elm0odhci2al@4ax.com>
<7Q5%i.3246$gd3.706@newsfe18.lga> <mg8qj3tkujrclv4nto34b2di7l0oneiecu@4ax.com>
<e5oqj39lk0bit1np1concosig6vd7iu695@4ax.com>
Subject: Re: Opening crystal filter can
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <V1f%i.660$2O4.590@newsfe21.lga>
NNTP-Posting-Host: 72.209.25.33
X-Complaints-To: admin@cox.net
X-Trace: newsfe21.lga 1195212021 72.209.25.33 (Fri, 16 Nov 2007 04:20:21 MST)
NNTP-Posting-Date: Fri, 16 Nov 2007 04:20:21 MST
Organization: Cox
Date: Fri, 16 Nov 2007 06:20:20 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:14674

"miken" <mnewman@clear.net.nz> wrote in message
news:e5oqj39lk0bit1np1concosig6vd7iu695@4ax.com...
> On Fri, 16 Nov 2007 18:16:10 +1300, miken <mnewman@clear.net.nz>
> wrote:
>
>> > Correction --- The filters are LADDER configuration.
>
> de miken, zl1bnb
>

If they (each crystal) has three leads in a row, then
they are likely to be monolythic filters. Especially
if they are have small value capacitors between each
section to ground.

15kHz BW in a ladder design is pretty hard to do in
my opinion.

cheers

Pete

From 1103025264788595575
X-Google-Thread: 108122,5d9177f8a9361b2f
X-Google-Thread: fc2a5,5d9177f8a9361b2f
X-Google-Attributes: gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: billg999@cs.uofs.edu (Bill Gunshannon)
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Help with H89/H19
Date: 16 Nov 2007 15:10:10 GMT
Organization: Computing Sciences Dept., University of Scranton
Lines: 27
Message-ID: <5q5q6iFu6s99U1@mid.individual.net>
References: <l6xLi.4096$Ww5.1473@trnddc03>
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    <13fvcuna9rccf3e@corp.supernews.com>
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Cancel-Lock: sha1:v2EN2mT1IRbMJCc6rdO7D9v1Nsg=
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Xref: g2news1.google.com rec.radio.amateur.equipment:13206 rec.radio.amateur.homebrew:14675

In article <13fvcuna9rccf3e@corp.supernews.com>,
msg <msg@_cybertheque.org_> writes:

> Wes Groleau wrote:
>
> <snip>
>
>> Plus, without a floppy drive, the H89 is useless, so this gets
>> something out of it.
>>
>
> Indeed, using the terminal portion has merit, but why not also
> add the missing floppy (I presume it is just the 5 1/4" drive
> that you lack)? Look in dumpsters, curbside, surplus and
> thrift stores for any old XT-clone to rescue a full-height
> floppy ;)

Not likely to find one as the Heathkit computers prior to the
PC world (other than the H8) used hard sectored disks. I can
not remember the last time I saw a 5 1/4" hard sectored drive!!

bill

```
--
Bill Gunshannon          |  de-moc-ra-cy (di mok' ra see) n.  Three wolves
bill@cs.scranton.edu     |  and a sheep voting on what's for dinner.
University of Scranton   |
Scranton, Pennsylvania   |         #include <std.disclaimer.h>
```

```
From -1901846628411386l4
X-Google-Thread: fc2a5,dd966ac27ac32b72
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w34g2000hsg.googlegroups.com!not-for-
mail
From: Tom <holden_family@sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Beat modulation of IF by Product Detector?
Date: Fri, 16 Nov 2007 07:26:22 -0800 (PST)
Organization: http://groups.google.com
Lines: 90
Message-ID: <f0cb8e09-3bd3-4184-9993-f35b185d1907@w34g2000hsg.googlegroups.com>
References: <19837dfc-fbbb-4bad-a9e9-d3d964447bc6@c30g2000hsa.googlegroups.com>
     <188bd42f-0794-41fa-bfd8-59f87505aa66@i29g2000prf.googlegroups.com>
NNTP-Posting-Host: 65.95.104.184
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1195226782 11684 127.0.0.1 (16 Nov 2007 15:26:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 16 Nov 2007 15:26:22 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w34g2000hsg.googlegroups.com; posting-host=65.95.104.184;
     posting-account=dSeW1wgAAACmKsq9OPblBZ8hpo9AeSuQ
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322),gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14676

On Nov 16, 12:28 am, K7ITM <k7...@msn.com> wrote:
> On Nov 15, 8:13 pm, Tom <holden_fam...@sympatico.ca> wrote:
>
>
>
>
>
> > 1. I've been digging around in the receiver of my Yaesu FT-817ND
> > transceiver and simulating with LTspice the AGC and AM detectors to
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>
```

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> > Are there any other probable causes?
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>
> > I've posted an article to the Files section of the FT817 Yahoo!Group:http://groups.yahoo.com/group/FT817/files/Audio%20Distortion%20-%20Re...
>
> > 73, Tom VE3MEO
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> and concluded that it is indeed due to the change in effective load
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> @ K7ITM- Hide quoted text -
>
> - Show quoted text -

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From -7686596376633172622
X-Google-Thread: fc2a5,dd966ac27ac32b72
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w28g2000hsf.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Beat modulation of IF by Product Detector?
Date: Fri, 16 Nov 2007 09:23:50 -0800 (PST)
Organization: http://groups.google.com
Lines: 108
Message-ID: <c1f48f79-8c0e-438d-ba86-907f8130cd5e@w28g2000hsf.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 16 Nov 2007 17:23:50 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: w28g2000hsf.googlegroups.com; posting-host=192.25.142.225;
    posting-account=uiivuwkAAADKlh9jd4TJzpBGWedvsUqf
User-Agent: G2/1.0
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Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14677

On Nov 16, 7:26 am, Tom <holden_fam...@sympatico.ca> wrote:

> On Nov 16, 12:28 am, K7ITM <k7...@msn.com> wrote:
>
>
>
> > On Nov 15, 8:13 pm, Tom <holden_fam...@sympatico.ca> wrote:
>
> > > 1. I've been digging around in the receiver of my Yaesu FT-817ND
> > > transceiver and simulating with LTspice the AGC and AM detectors to
> > > investigate possible distortions due to non-linear loading of the IF
> > > feed they share with the SSB/CW product detector when I chanced upon
> > > an unexpected behaviour: the envelope of a CW IF signal at the input
> > > of the product detector is amplitude-modulated by the beat frequency
> > > output. The modulation is asymmetrical and distorted and is perhaps
> > > only 5-10% deep but its fundamental component is clearly the beat
> > > frequency. I presume that the output is therefore distorted to the
> > > extent that the output amplitude at any time is somewhat proportional
> > > to the amplitude of the input envelope. Is that a reasonable
> > > supposition?
>
> > > 2. I suspect the cause is a dynamic load impedance of the product
> > > detector being fed by a high impedance IF source - a 100pF coupling
> > > capacitor (approx 3600Xc at 455kHz) preceded by an IF buffer amp with
> > > at least 1000R source impedance. The product detector is NJM2594,
> > > stated in the datasheet to have a 600R input resistance and schematics
> > > for test setups showing 50R sources. Is that a reasonable explanation?
> > > Are there any other probable causes?
>
> > > 3. If the hypothesis in 2 is correct, a probable solution would be to
> > > lower the source impedance and that of the coupling capacitor to
> > > something on the order of 50 Ohms. Is that a reasonable conclusion?
> > > Are there any other possible solutions?
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> a second beat note in the LPF output. I'll have to noodle about this
> some more and see if I can come up with some test.
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> 73, Tom VE3MEO

Hi Tom,

Well, you can simulate it and see if you get distortion in the
output. You can create a "product detector" using just Spice
switches, switched at the LO frequency. My model, which I haven't
gotten back to yet since seeing your orig. posting, is of a Tayloe-type mixer, but I would not be at all surprised to see the same effect
with other configurations. In LTSpice you can do an FFT of the output
results to look for distortion products, but if you want to look at
really low distortion, you need to subtract out the fundamental(s);
I've seen a limit of around 80-100dB dynamic range (as I recall).

I do have equipment to test for distortion. I may be able to do some
of that this afternoon. I'll let you know what I find.

Cheers,
Tom

From -7495424121409154057
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X-Google-Thread: fc2a5,5d9177f8a9361b2f
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Path: g2news1.google.com!news3.google.com!sn-xt-sjc-04!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Help with H89/H19
Date: Fri, 16 Nov 2007 13:24:44 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13jrre0j2itck2d@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
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Lines: 72
Xref: g2news1.google.com rec.radio.amateur.equipment:13209 rec.radio.amateur.homebrew:14678

Bill Gunshannon wrote:

> In article <13fvcuna9rccf3e@corp.supernews.com>,
>   msg <msg@_cybertheque.org_> writes:
>
>>Wes Groleau wrote:
>>
>><snip>
>>
>>>Plus, without a floppy drive, the H89 is useless, so this gets
>>>something out of it.
>>>
>>
>>Indeed, using the terminal portion has merit, but why not also
>>add the missing floppy (I presume it is just the 5 1/4" drive
>>that you lack)? Look in dumpsters, curbside, surplus and
>>thrift stores for any old XT-clone to rescue a full-height
>>floppy ;)
>
>
> Not likely to find one as the Heathkit computers prior to the

> PC world (other than the H8) used hard sectored disks. I can
> not remember the last time I saw a 5 1/4" hard sectored drive!!
>
> bill
>

I cannot remember any differences in the drives, only the media.
The sector holes and index hole were all on the same circle.

I used to use a cheap punch to make hard sectored
media and IIRC, I just lined up the punch on the index hole
and then rotated the media a certain number of degrees, punched,
repeated, until done.

Here is an excerpt from a website that describes drive and media
specifications (http://www.retrotechnology.com/herbs_stuff/drive.html):

> Facts on hard sectored diskettes and "drives"
>
> 1) Hard sector means that the DISKETTE (not the drive) has multiple holes,
 > one for each sector. Normal (soft sectored) diskettes have only ONE hole
 > to mark the "index" or beginning of a track. There is a small hole in
 > the envelope (8-inch, 5.25-inch) which exposes this hole to the disk
 > drive. For hard sectored disks, there are additional holes to mark the
 > beginning of each sector. The index hole is an additional hole between
 > two sector holes.
>
> 2) 5.25 inch hard sector diskettes came with 10 sector (11 holes) and
 > rarely 16 sector (17 holes). To count holes, grab a diskette. Rotate
 > the "doughnut" inside the diskette's envelope and count the holes.
 > Remember the index hole is in between two sector holes (so a smaller
 > spacing). Classic systems which used 5.25 inch hard sectored diskettes
 > include Heath H89 (10 sector), NorthStar (10 sector).
>
> 3)For 8-inch diskettes, hard sectored diskettes came with 32 sectors
 > (33 holes). These disks were otherwise identical to soft-sectored 8-inch
 > diskettes. But, there was another, even older hard-sectored scheme, where
 > the index hole was near the outer edge of the envelope and far offset
 > from center.
>
> 4)While in most cases, it's the MEDIA not the DRIVE which determines
 > hard-sectored operation, there were some 8-inch drives (Shugart 800
 > and 801) which provided circuitry to generate hard sector pulses from
 > soft sectored diskettes. (Or was that to filter hard sector pulses OUT
> from hard sectored diskettes? Check with the Shugart 800/801 manual...

Regards,

Michael

From -7256025825647426439
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X-Google-Language: ENGLISH,ASCII-7-bit
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From: "JRCCrabtree@gmail.com" <JRCCrabtree@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radcom April 2007
Date: Fri, 16 Nov 2007 13:42:05 -0800 (PST)
Organization: http://groups.google.com
Lines: 10
Message-ID: <f17f5e88-ad5c-47e1-9d45-aad5a8e06e16@o6g2000hsd.googlegroups.com>
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Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14679

On Nov 15, 3:45 pm, miken <mnew...@clear.net.nz> wrote:

> Could someone who has a copy of the April 2007 issue of Radcom please
> scan and forward to me a copy of the contents page.
>
> RSGB failed to send a number of issues to ZL members this year, and
> suggested I "borrow a copy from my friend". His didn't arrive either.
>
> Thanks de miken,   zl1bnb

Done. John KC0G

From -4475891555159394854
X-Google-Thread: fc2a5,87982d325063e226
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Fri, 16 Nov 2007 17:01:08 -0600
Date: Fri, 16 Nov 2007 16:01:06 -0700
From: "H. P. Friedrichs" <nospam@please.com>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)

MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PCB Layout S/W Recmondations?
References: <Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70>
In-Reply-To: <Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70>
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X-Complaints-To: abuse@velocitywest.net
X-DMCA-Complaints-To: abuse@velocitywest.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14680

ExpressPCB will sell you industry standard Gerbers of artwork generated
by their free software for $50, as I recall.

73,

Pete
AC7ZL

John Tartar wrote:
> Does anyone know of a simple, but free PCB layout software.
>
> Or a way to convert .pcb files from EXPRESSPCB to industry standard format.
>
> I currently use ExpressPCBs layout s/w which is fine for my applications
> and great for prototypes. But I want the option to use other vendors when
> the volume gets high, i.e. selling kits.

From 3258367648850706002
X-Google-Thread: fc2a5,40419db7989795f0
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X-Google-Language: ENGLISH,ASCII-7-bit
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news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 16 Nov 2007 22:46:40 -0600
From: miken <mnewman@clear.net.nz>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radcom April 2007
Date: Sat, 17 Nov 2007 17:46:58 +1300

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Message-ID: <massj3h4993th8k210bvrhgse3unqc2ki3@4ax.com>
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aad5a8e06e16@o6g2000hsd.googlegroups.com>
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Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com rec.radio.amateur.homebrew:14681

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Superb John   many thanks
miken,   zl1bnb


From -3552545607370026O4
X-Google-Thread: fa1dc,4c9330b89e87d044,start
X-Google-Thread: f79f6,4c9330b89e87d044,start
X-Google-Thread: fc2a5,4c9330b89e87d044,start
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out02b.usenetserver.com!
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Message-Id: <m07101706395612@4ax.com>
Subject: MI5 Persecution: BA984 LHR->TXL 13/6/98 (848)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 17 Nov 2007 02:43:35 GMT
Lines: 35
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rec.radio.amateur.homebrew:14682 alt.fan.nikki-dial:128 hr.org.fer:137732

BA984 LHR->TXL 13/June/1998

Certainty level: 100%

In June 1998 I travelled on the above British Airways flight to Berlin with my mother, to visit her family. There were two women in seats 30D/E, about 4/5 rows behind us. It was quite obvious from the torrent of abuse during these flight that these women had been instructed to harass me and attempt to obtain a reaction.

I did manage to record much of the flight, but unfortunately much of the recording is unclear because of high background noise on the aircraft. The following three excerpts from the recording are the best I can do.

The segment at position 11:34 minutes on my recording contains a fairly quiet word "paranoid", followed immediately by a much louder
"yeah, he's paranoid, yeah". During the flight the abuse was not sexual, as it so often is elsewhere, but attacking my mental health.

One of the women in seats 30D/E said "paranoid" very clearly towards the end of the flight, but unfortunately I had run out of minidisc space and stopped recording by then. There is absolutely no doubt in my mind that these women were directed to harass me. This harassment happens without fail on British Airways flights; I've been on something like three or four BA flights in the last 5 years and it's happened each time. Presumably this is because of international law which says incidents on aircraft during flight are actionable in the airline's country of origin - so my persecutors want a reaction from me, and they want to see me "done" in the UK where they can influence the justice system.

These incidents never happen on foreign-domiciled carriers.

848

--
Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

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From -8715532830584625418
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder3.cambrium.nl!feeder1.cambrium.nl!
feed.tweaknews.nl!tudelft.nl!txtfeed1.tudelft.nl!feeder.erje.net!aioe.org!not-for-
mail
From: "Anonymous." <me@privacy.net>
Newsgroups: rec.radio.amateur.homebrew,uk.radio.amateur
Subject: Re: Radcom April 2007
Date: Sat, 17 Nov 2007 06:41:57 -0000
Organization: Aioe.org NNTP Server
Lines: 18
Message-ID: <fhm2fl$j94$1@aioe.org>
References: <h8fpj3t2vv83cjgbefdvk4tq8l0h1nhum1@4ax.com>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:14683 uk.radio.amateur:132923
```

"miken" <mnewman@clear.net.nz> wrote in message
news:h8fpj3t2vv83cjgbefdvk4tq8l0h1nhum1@4ax.com...

> Could someone who has a copy of the April 2007 issue of Radcom please
> scan and forward to me a copy of the contents page.
> RSGB failed to send a number of issues to ZL members this year, and
> suggested I "borrow a copy from my friend". His didn't arrive either.

Perhaps M3OSN's obsession with attention-seeking infantile remarks
within these fora is analogous to Nero fiddling while Rome burns?

That the RSCB is a shambles in the background while the directors are
forever spin-doctoring shows up a parallel with the Labour misgovernment?

In any case, is it not a matter of fraud if a contract exists to send a
publication
and they refuse to correct their oversight?

From 1848010664545890750
X-Google-Thread: fa1dc,fecb108170f06d04,start
X-Google-Thread: f79f6,fecb108170f06d04,start
X-Google-Thread: fc2a5,fecb108170f06d04,start
X-Google-Thread: fdf97,fecb108170f06d04,start
X-Google-Thread: fe6d9,fecb108170f06d04,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07101707560479@4ax.com>
Subject: MI5 Persecution: BHS Croydon 18/12/98 (3023)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 17 Nov 2007 03:59:43 GMT
Lines: 29
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 25
Xref: g2news1.google.com alt.conspiracy.antichrist:2798 alt.peeves:2076 rec.radio.amateur.homebrew:14684 alt.fan.nikki-dial:129 hr.org.fer:137733

Evil old bat in BHS 18/12/98

Certainty level: 40%

Not quite sure how sure I am about this one. I went down to Croydon (Surrey) with my mother to buy her a beret. After doing the shopping, we went to the BHS store restaurant to lunch on fish and chips.

You can guess the rest. Auditory hallucinations my shrink calls them, faithfully recorded on Sony minidisc. Some old cow going on about "see that chap, the one over there, something's wrong with him".

It is quite tiring being attacked by random idiots in the street, or as in this case, by some random, evil old bat in a restaurant. Fortunately it is only a sporadic occurrence. My enemies seem of late reluctant to waste resources in my direction. Should I take this as an insult? Am I not worth the millions of taxpayers money which has been wasted on me? Are the obsessives of MI5 themselves the "nutters" and "really mad" which they accuse me of being? Interestingly this suggestion as to the psychological profiles of Security Service personnel has been made by others... it does lead one to wonder, doesn't it?

3023

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

```
From 5711382525332819371
X-Google-Thread: fa1dc,f8b0df4e8653be74,start
X-Google-Thread: f79f6,f8b0df4e8653be74,start
X-Google-Thread: fc2a5,f8b0df4e8653be74,start
X-Google-Thread: fdf97,f8b0df4e8653be74,start
X-Google-Thread: fe6d9,f8b0df4e8653be74,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07101709161241@4ax.com>
Subject: MI5 Persecution: Ravenscourt Park 20/3/99 (5198)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 17 Nov 2007 05:19:51 GMT
Lines: 30
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 26
Xref: g2news1.google.com alt.conspiracy.antichrist:2799 alt.peeves:2077
rec.radio.amateur.homebrew:14685 alt.fan.nikki-dial:130 hr.org.fer:137734
```

Ravenscourt Park 20/3/99

Certainty level: 70%

On Saturday I went to Hammersmith, specifically Ravenscourt Park. There had recently been a resurgence of persecution activity, following the Capital spams. I went to the cafe in the park and had a cup of coffee outside, with my mother. As I went inside the cafe to return the cups, a woman shouted a sexual obscenity (not present on this audio file - don't ask), and she said loudly "something's wrong with him". You can just about hear it in the audio file; listen very carefully, several times; it is distinguishable.

Much less subtle is the male voice shouting "take care he's a nutter" immediately after the woman's voice. As on the other recordings there's a lot of noise, but what the people say can be clearly heard.

Given that I take medication and look and behave quite sanely, and that there had been increased abuse over the last couple of weeks, it seems pretty unlikely that this incident was just spontaneous.... of course, you couldn't prove otherwise, but then that's the way MI5 mean their abuse to look.

5198

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

```
From 5359823934261167158
X-Google-Thread: fa1dc,7b5ca6a71449a71f,start
X-Google-Thread: f79f6,7b5ca6a71449a71f,start
X-Google-Thread: fc2a5,7b5ca6a71449a71f,start
X-Google-Thread: fdf97,7b5ca6a71449a71f,start
X-Google-Thread: fe6d9,7b5ca6a71449a71f,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07101711071425@4ax.com>
Subject: MI5 Persecution: Battersea Library 29/3/99 (7373)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 17 Nov 2007 07:10:55 GMT
Lines: 22
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 18
Xref: g2news1.google.com alt.conspiracy.antichrist:2800 alt.peeves:2078
rec.radio.amateur.homebrew:14686 alt.fan.nikki-dial:131 hr.org.fer:137742
```

Battersea Library 29/3/99

Certainty level: 60%

This one is quite dull. During the month of March 1999, MI5 made another determined attempt to "get" me, substantially through radio programmes, through Jon Snow on Channel Four News, and through abuse in public, of which this is one example.

Recorded on my minidisc-walkman on Monday 29 March 1999, this audio file consists of two girls talking. One says to the other, "he's got something wrong with him." The usual words. How many millions a year do the Security Service waste on this? But they've denied it - how silly of me to forget. And they're not liars either, are they?

7373

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

```
From -6057932778242887922
X-Google-Thread: fa1dc,d58682644a09c504,start
X-Google-Thread: f79f6,d58682644a09c504,start
X-Google-Thread: fc2a5,d58682644a09c504,start
X-Google-Thread: fdf97,d58682644a09c504,start
X-Google-Thread: fe6d9,d58682644a09c504,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07101713163526@4ax.com>
Subject: MI5 Persecution: Royal Festival Hall 15/4/99 (9548)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 17 Nov 2007 09:20:15 GMT
Lines: 31
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 27
Xref: g2news1.google.com alt.conspiracy.antichrist:2801 alt.peeves:2079
rec.radio.amateur.homebrew:14687 alt.fan.nikki-dial:132 hr.org.fer:137748
```

Royal Festival Hall 15/4/99

Certainty level: 100%

Another "day in the life of", this one. January and February were quiet; in March it all started again; by the middle of April the resurgence of abuse had been going on for over a month. And this, with 100% certainty, is one manifestation of the abuse.

On Thursday 15 April 1999, 1pm lunchtime, I was at the booking office at the Royal Festival Hall near Waterloo Station in London, buying a ticket for a friend. A woman was at the counter next to me. She said;

"it would kill it, you know, it would just be overkill...
.. they can't stop can they"

It was obvious to everyone, the ticket agents included, that her comments were directed at me, and that "they" (ie. MI5) were "killing" me.

I've heard similar things said at various other times, but rarely have their intentions been expressed as clearly as this. The woman also expressed the obsessive nature of MI5's preoccupation with me, by saying, "they can't stop can they".

9548

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

```
From 5911053722312271679
X-Google-Thread: fc2a5,40419db7989795f0
X-Google-Thread: f64c6,9cb18d7857788a9c
X-Google-Attributes: gidfc2a5,gidf64c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newsfeed.esat.net!reader01.news.esat.net!not-for-mail
From: pkearn_ei7gm@did_morse_test_that_4000_runway_from.eircom.edu.net (zpk)
Newsgroups: rec.radio.amateur.homebrew,uk.radio.amateur
Subject: Re: Radcom April 2007
Date: Sat, 17 Nov 2007 13:35:38 GMT
Organization: Esat Net Customer
Lines: 11
Message-ID: <473eedb4.907140@news.iol.ie>
References: <h8fpj3t2vv83cjgbefdvk4tq8l0h1nhum1@4ax.com> <fhm2fl$j94$1@aioe.org>
NNTP-Posting-Host: dialup0457.ts552.cwt.esat.net
X-Trace: reader01.news.esat.net 1195306534 32095 193.203.145.201 (17 Nov 2007
13:35:34 GMT)
X-Complaints-To: abuse@esat.net
NNTP-Posting-Date: Sat, 17 Nov 2007 13:35:34 +0000 (UTC)
X-Newsreader: Forte Free Agent 1.21/32.243
Xref: g2news1.google.com rec.radio.amateur.homebrew:14688 uk.radio.amateur:132957
```

On Sat, 17 Nov 2007 06:41:57 -0000, "Anonymous." <me@privacy.net>
wrote:

[snip]

still waiting for a definite answer on whether or not
the venue for the hfc was/is a registered venue for the
IL and ADV exams as well.

```
From 7898767725492143918
X-Google-Thread: fa1dc,38df6be6fd828c4b,start
X-Google-Thread: f79f6,38df6be6fd828c4b,start
X-Google-Thread: fc2a5,38df6be6fd828c4b,start
X-Google-Thread: fdf97,38df6be6fd828c4b,start
X-Google-Thread: fe6d9,38df6be6fd828c4b,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07101714472593@4ax.com>
Subject: MI5 Persecution: Balham Bus 8/7/99 (11723)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 17 Nov 2007 10:51:05 GMT
Lines: 26
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 22
Xref: g2news1.google.com alt.conspiracy.antichrist:2802 alt.peeves:2080
rec.radio.amateur.homebrew:14689 alt.fan.nikki-dial:133 hr.org.fer:137753
```

Balham - LT bus (8/July/1999)

Certainty level: 90%

I am very sure about this one. I got back from holidays on Wednesday. There were two incidents, both on the tube, on the way back from the airport. There was a further incident the following day, Thursday, on the bus (the 155 I think) in Balham, where two girls started spouting abuse about "crazy", etc. Naturally I had my minidisc with me and was able to record their words.

The cynical reader might think my demeanour or behaviour had given rise to the taunts of "crazy" recorded above. But I assure you my behaviour on the bus would not have made anyone think I was ill; and the taunts the previous day were the same sexual words as previously; so I'm quite sure that these incidents are either deliberately staged, or indicative of an overall high level of awareness among the London public, particularly in the part of London where I live.

11723

```
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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access
```

```
From 3940023607839082480
X-Google-Thread: fa1dc,97f8450fcf196221,start
X-Google-Thread: f79f6,97f8450fcf196221,start
X-Google-Thread: fc2a5,97f8450fcf196221,start
X-Google-Thread: fdf97,97f8450fcf196221,start
X-Google-Thread: fe6d9,97f8450fcf196221,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07101716113893@4ax.com>
Subject: MI5 Persecution: Clapham South 17/2/00 (13898)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 17 Nov 2007 12:15:18 GMT
Lines: 36
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 32
Xref: g2news1.google.com alt.conspiracy.antichrist:2803 alt.peeves:2081
rec.radio.amateur.homebrew:14690 alt.fan.nikki-dial:134 hr.org.fer:137760
```

Clapham South (17/Feb/2000)

Certainty level: 100%

In February 2000, MI5's hate campaign against me was in full swing. They sent people into the road where I live in south London, to swear at me and abuse me as I was leaving or returning home. One such instance is recorded on the above audio file.

On Thursday 17 February 2000, I had just left my home, en route for Croydon, when two youths approached, going in the other direction. One of them said with a smile on his face something which I didn't recognize, and still don't understand despite it being on this audio clip. His demeanour made it clear his statement was directed at me. I coughed, and in response to that, he continued his insult, calling me a "wanker", which is very clearly recorded on this audio clip.

Two days later, in the very early morning of Sunday 20 February 2000, MI5 inflicted another insult against me just outside my house, when, returning from Croydon, two youths approached (MI5 agents always go in packs of at least two - they're too cowardly to go anywhere on their own) and one of them said quietly and bitterly to the other that "he's shitty, very shitty".

It is still comparatively rare for MI5 to send people to my house, or to my road, to harass me. Usually they know where I'm going to, since they have bugs on my phone and in each room of my house; and they send people to that location, or on the train or tube getting there.

13898

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

```
From -1250953343574843247
X-Google-Thread: fa1dc,57349345f7b4e806,start
X-Google-Thread: f79f6,57349345f7b4e806,start
X-Google-Thread: fc2a5,57349345f7b4e806,start
X-Google-Thread: fdf97,57349345f7b4e806,start
X-Google-Thread: fe6d9,57349345f7b4e806,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07101717523711@4ax.com>
Subject: MI5 Persecution: Clapham Junction 6/5/00 (16073)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 17 Nov 2007 13:56:17 GMT
Lines: 46
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 42
Xref: g2news1.google.com alt.conspiracy.antichrist:2804 alt.peeves:2082
rec.radio.amateur.homebrew:14691 alt.fan.nikki-dial:135 hr.org.fer:137774
```

Clapham Junction (6/May/2000)

Certainty level: 60%

On Saturday 6 May 2000, I was in Clapham Junction, shopping and visiting the library. At precisely 12:29pm, the above audio clip was recorded, in front of Arding and Hobbs department store. One girl was saying to her friend,

"He's a homosexual, they can say whatever they want."

There are several reasons why I think this comment might be about me. Firstly, temporal proximity to other such incidents. The persecution had restarted about two to three days before this clip was recorded. Cause of restart unknown. Personally I think it's because I was going on holiday to France the following Monday - MI5 do like to take holidays abroad at the taxpayer's expense, and inventing reasons to resurrect their hate campaign just before I go on holiday is something they've done before.

Secondly, although I am not gay, they have used such references against me before. At Oxford Computer Group in 1994, manager Steve Mitchell simultaneously abused me and another employee but saying we were "of a similar bent". Such insults show latent or quite overt homosexuality on the part of the abuser.

Thirdly, the sort of people who abuse on the basis of mental illness are the same people who abuse others on the basis of sexuality, race, religion, etc. If they can abuse a disabled man, then they will surely do so based on the other criteria mentioned.

There is still some room for doubt, though, which is why I have assigned this recording a certainty level of only slightly above evens. But "they can say whatever they want" is what gives the game away; they just choose a differentiating feature on which to base their abuse; and if one such feature gets too boring ("we've called him a nutter for the last ten years so now we'll call him something else") then they invent a different lie to throw at me.

16073

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From 7164841982797122621
X-Google-Thread: fa1dc,84a8506e0638ea08,start
X-Google-Thread: f79f6,84a8506e0638ea08,start
X-Google-Thread: fc2a5,84a8506e0638ea08,start

X-Google-Thread: fdf97,84a8506e0638ea08,start
X-Google-Thread: fe6d9,84a8506e0638ea08,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07101719273858@4ax.com>
Subject: MI5 Persecution: he's an idiot you know 3/11/00 (18248)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 17 Nov 2007 15:31:18 GMT
Lines: 24
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 20
Xref: g2news1.google.com alt.conspiracy.antichrist:2805 alt.peeves:2084
rec.radio.amateur.homebrew:14692 alt.fan.nikki-dial:136 hr.org.fer:137783

Balham High Road (3/Nov/2000)

Certainty level: 60%

On 3 November 2000, I had just got off the bus in Balham High Road,
when I heard a group of schoolgirls shouting and laughing. One of them yelled;

"He's an idiot you know."

You can hear this on the above clip; it is followed by laughter. I am
not quite sure this is about me, which is why I have only given it
a two in three probability. I have been attacked many times with the
word "idiot", which seems to be a favourite with intellectual lightweights
who want to bring down bigger game. (Back in 1992 I was so worried by the
attacks on my intelligence that I took the test and joined Mensa......
does that make me a *clever* idiot? Never mind.)

18248

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From 6912975656762653149
X-Google-Thread: fa1dc,b40a9bfe18a39cf7,start

```
X-Google-Thread: f79f6,b40a9bfe18a39cf7,start
X-Google-Thread: fc2a5,b40a9bfe18a39cf7,start
X-Google-Thread: fdf97,b40a9bfe18a39cf7,start
X-Google-Thread: fe6d9,b40a9bfe18a39cf7,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07101722205303@4ax.com>
Subject: MI5 Persecution: tinker tailor wanker thief 2/12/00 (20423)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 17 Nov 2007 18:24:34 GMT
Lines: 71
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 67
Xref: g2news1.google.com alt.conspiracy.antichrist:2806 alt.peeves:2085
rec.radio.amateur.homebrew:14693 alt.fan.nikki-dial:137 hr.org.fer:137792
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Crescent Grove, Clapham Common (2/Dec/2000)

Certainty level: 100%

This is one of those clips where I am absolutely, 100% certain it's inflicted by MI5 on me, because of background, context. On Saturday 2 December 2000, I was walking from my home to a pub on Clapham Common, and on the way was in proximity to a group of three English youths who were walking the other way. They turned from the main road into a private estate called Crescent Grove. Here is what they said;

(first youth) "He masturbates!"
(his mate responds) "Yeah, he masturbates!"
(and again) "Thief!"

There is a lot of context associated with this incident, which I will now relate.

Firstly, the verbal sexual abuse is a popular one with MI5, and as a statement about me is currently mostly in their imaginations. The accusation has to be seen relative to MI5's persecutory actions in late November and early December 2000, and in fact for some months leading up to this. Their relevant activities in June 2000 are documented in a message in this evidence item;
following from that, they sent someone to simulate an act in front of my window, which was captured on film.

It is the publication of the video of their agent performing the act on himself which caused MI5 to restart this thread of harassment in the first few days of December 2000. But there are some subtleties; I uploaded the digitised video to this website on 26/November/2000; but I did not announce its existence on the newsgroups until Sunday 3/December/2000. These youths' slur was made the previous day, on Saturday 2/Dec. That tells us quite a lot. According to my website logs, there were no accesses to the video file before Sunday 3/Dec. So why did MI5 restart this particular thread of abuse, before their agent's activities were published on the newsgroup? The conclusion we reach is that they were watching my internet connection, either decoding the telephone line, or at the ISP; and/or they may be able to physically see what is on my notebook computer's screen, from RF transmissions from its VGA circuitry. I do not know whether the latter is technically feasible, but the former certainly is, and I have known for years that MI5 bugs my internet activities and phone calls. It is from their observation of my internet connection that they were able to tell, without accessing the video file over the net, that it was of their agent in a compromising position; and it was from that observation that their shouted slur on 2/Dec emanates.

The second accusation, "Thief!", is even more interesting. It relates to occurrences from June of 2000, some six months before these youths threw the word at me. It shows just how wide in reach geographically and temporally the MI5 persecution is; they react to something which happened half a year previously.

In the first half of 2000, MI5 made a determined assault on my friendships. In one particular case, that of A. whom I had known for virtually all my life, they partly succeeded. This person made pointed references to me which made it clear he knew what was happening; at one point he started asking "do you know anything about the FBI and the CIA". In June 2000, we went to see a film in the West End. I paid for both of us, and then asked him to return what I had paid for his ticket, some �7.50. He was reluctant to do so. Eventually he returned �5, settling for the lesser gain of �2.50.

I did not call him a thief to his face, but I may have spoken the word while I was at home, either conscious or in my sleep. MI5 have very tight control over everything I do and say in my home through their bugs; if I say anything against someone in "their" camp, they turn round the accusation against me. So, from the fact that A. tried to garner a few pounds at my expense, MI5 create the accusation, six months later..... "thief!".

20423

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From 201582350773882065
X-Google-Thread: fa1dc,7f4561f9d8aacf43,start
X-Google-Thread: f79f6,7f4561f9d8aacf43,start
X-Google-Thread: fc2a5,7f4561f9d8aacf43,start
X-Google-Thread: fdf97,7f4561f9d8aacf43,start
X-Google-Thread: fe6d9,7f4561f9d8aacf43,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07101800465414@4ax.com>
Subject: MI5 Persecution: Jon Holmes (4-5/Jan/2002) (22598)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 17 Nov 2007 20:50:25 GMT
Lines: 54
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 50
Xref: g2news1.google.com alt.conspiracy.antichrist:2807 alt.peeves:2086
rec.radio.amateur.homebrew:14694 alt.fan.nikki-dial:138 hr.org.fer:137793

Virgin Radio-Jon Holmes (4-5/Jan/2002)

Here are two segments from Virgin FM, one on Friday, the other on Saturday, both from the Jon Holmes evening show.

Certainty level: 80%

In early January 2002 I listened for the first time in some months to Virgin Radio, specifically to the Jon Holmes evening show on Friday 4 January 2002. They promptly attacked me verbally. Again, context is relevant. There are three instances in the space of two minutes on this extract;

00:18 "are you lying?"
00:22 "it's not fair"
01:24 "everyone at the amateur c+ turbo programmers club found it hilarious"

The first phrase is a straight slander. MI5 were trying to portray me as a liar at around this time; I have other audio with the same accusation. "are you lying?"; unsophisticated.

It's closely followed by the words "it's not fair". Note carefully the way he says it,
quickly, as if to deny what he says. The phrase "not fair" was first created by OCTS MD
H S.-W. in Nov/1992, and picked up on my first visit to hospital soon after
"they should have paid your fare").
Again, unsophisticated parrotting of a key phrase.

The third phrase is explicable through contemporaneous context. That morning I had
phoned about a C++ course. "c+ turbo programmers club"... again, somewhat brazen
we're-listening-to-what-he-says-on-the-phone, and he-can't-prove-it. Something got lost
in translation from MI5's watchers to Virgin, because "c+ turbo" means nothing.... there
is no C+ turbo language, only C++, of which Turbo C++ is one implementation.

Certainty level: 80%

I wasn't entirely convinced from Friday's programme, but the following evening's
show confirmed it. It contained a number of references to my condition, of which the
following excerpt is one such;

00:09 "I'm not well, and no-one cares"
00:24 "my voice sounds all funny"
01:01 "do you mean people that aren't mad"
01:05 "medical problem is it"

"I'm not well" doesn't mean he has a cold; it means he is being sarcastic about my
mental illness. "my voice sounds all funny" refers to the change in nature of my
voice when acute illness hits. "do you mean people that aren't mad" is obvious.
"medical problem is it"..... rubbing salt into the wound.

22598

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
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```
From -4510160078554344609
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X-Google-Thread: f79f6,a2a32e94ef7cce1f,start
X-Google-Thread: fc2a5,a2a32e94ef7cce1f,start
X-Google-Thread: fdf97,a2a32e94ef7cce1f,start
X-Google-Thread: fe6d9,a2a32e94ef7cce1f,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
```

Message-Id: <m07101803420954@4ax.com>
Subject: MI5 Persecution: Post Office 14/11/02 (24773)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 17 Nov 2007 23:45:41 GMT
Lines: 40
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 36
Xref: g2news1.google.com alt.conspiracy.antichrist:2808 alt.peeves:2087 rec.radio.amateur.homebrew:14695 alt.fan.nikki-dial:139 hr.org.fer:137798

Balham Hill Post Office (14/Nov/2002)

Certainty level: 80%

By mid-November 2002 the persecution had again dwindled, as happens sometimes, when along came this item.
I spent most of my time at home, going occasionally to the shops in Clapham South, or into town to meet people. On this particular
Thursday I only left the house once, for less than fifteen minutes to post a letter (special delivery, because my ordinary and
recorded delivery letters had been disappearing en route for some time - not that anyone would accuse MI5 of such petty harassment).
At the post office counter there was an Asian guy talking into his mobile phone and grinning away. There is a probability that
his comments were directed at me, as I will explain further. The second segment of audio closely follows the first segment.

"you'll do it today? let's meet about 3 o'clock and have some lunch. I got stuff to do and I'll go to the bank,
get this sh.. fucking moving yeah. Even just a little bit do something. He doesn't understand, you know what it is,
I don't want to tell him again cause then he might, he thinks we're having a go at him, I'm not having a go at him,
I'm explain to him"

Explanation: The guy is talking about some bloke who is unnamed, however it might be interpreted as being in code about me.
"I'll go to the bank"... variously interpretable, either literally, or as sounds-like "wank" which has been a consistent
theme in MI5's abuse. "get this shit fucking moving"... abuse... could be interpreted as MI5's criticism of my inertness.
The state spends hundreds of thousands of pounds a year - they want to see some result, not just neutrality and ordinariness.
"he doesn't understand"... MI5 claim I'm stupid... but the numbers and bits of paper prove otherwise, so perhaps what that

is really about is their agents' subconscious perception of themselves.

"having a go at him"... sounds like they're having a go at me, doesn't it? You might take the audio at face value and assume it's about some other guy, but it's normal MI5 procedure to pretend to be talking about someone else, and make the content of the message very relevant to me, or their perception of me.

"for some reason it doesn't get into his head, I don't know why... he's lost it completely, hasn't he"

What reason is there for it not getting into his (my) head? Stupidity is implied. Also implied is that it does get into his head; we're intentionally causing him damage. He's lost it completely... for some time I have suffered from OCD... lost it completely is the persecutors' observation of my illness, which they see through the surveillance on my home, which they caused.

24773

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
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From 8227348167103571148
X-Google-Thread: fa1dc,deaec87e4ef74609,start
X-Google-Thread: f79f6,deaec87e4ef74609,start
X-Google-Thread: fc2a5,deaec87e4ef74609,start
X-Google-Thread: fdf97,deaec87e4ef74609,start
X-Google-Thread: fe6d9,deaec87e4ef74609,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out03b.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07101806130640@4ax.com>
Subject: MI5 Persecution: Eclipse pub 20/12/02 (26948)
Newsgroups: alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer
Followup-To: alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 18 Nov 2007 02:16:39 GMT
Lines: 22
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
Xref: g2news1.google.com alt.conspiracy.antichrist:2809 alt.peeves:2088

rec.radio.amateur.homebrew:14696 alt.fan.nikki-dial:140 hr.org.fer:137799

Eclipse pub in Balham (20/Dec/2002)

Certainty level: 70%

On Friday 20/December/2002 I went to Balham to do some shopping and eating. When I went into the Eclipse pub for a meal
there were two girls already at the bar being server, I ordered and sat down near the window. They sat down at the opposite
window seat, out of sight. After a few minutes they started screaming repetitively "section, section". They were reading
something and were trying to pretend that they were just repeating from what they were reading, but in reality it was quite
obvious they were talking about me, specifically to confinement under mental health.

As you can guess the behaviour of these unwise young things shows them to be from the underprivileged category which due to
the natural laws of society is seldom seen in the better classes of restaurant - the McDonald's next door is their more
usual habitat. My guess is that these two females were deliberately placed in the Eclipse with orders to be offensive to
me personally. The alternative would be that no-one had ordered them and they were just being rude on their own account,
but that is improbable, for two reasons; first, I was out of sight of them and one does not usually "pick on" a person
one cannot see; secondly, there had that afternoon in Balham been other, less distinct incidents immediately preceding this,
and it is inferable that MI5 were making quite a serious effort to create a physical incident, as they have done on
numerous occasions previously. I give my interpretation a two in three chance of validity.

26948

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From -7773460321769375233
X-Google-Thread: fc2a5,87982d325063e226
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out03a.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!nx02.iad01.newshosting.com!newshosting.com!216.168.1.163.MISMATCH!sn-xt-sjc-03!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: David Harmon <source@netcom.com>

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PCB Layout S/W Recmondations?
Date: Sat, 17 Nov 2007 22:36:50 -0800
Organization: I support http://www.answers.com/topic/boulder-pledge
Message-ID: <13jvndf8t2g6b29@corp.supernews.com>
Reply-To: "Newsgroup only please, address is no longer replyable." <bad@example.invalid>
References: <Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70> <H96dnX_xE-apvKPanZ2dnUVZ_jWdnZ2d@velocitywest.net>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 8
Xref: g2news1.google.com rec.radio.amateur.homebrew:14697

On Fri, 16 Nov 2007 16:01:06 -0700 in rec.radio.amateur.homebrew, "H. P. Friedrichs" <nospam@please.com> wrote,
>ExpressPCB will sell you industry standard Gerbers of artwork generated
>by their free software for $50, as I recall.

Which is basically paying ransom to get back your designs which are being held hostage.

From -8072079373898188826
X-Google-Thread: fa1dc,8277c4778a3fcd05,start
X-Google-Thread: f79f6,8277c4778a3fcd05,start
X-Google-Thread: fc2a5,8277c4778a3fcd05,start
X-Google-Thread: fdf97,8277c4778a3fcd05,start
X-Google-Thread: fe6d9,8277c4778a3fcd05,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04a.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07101808495352@4ax.com>
Subject: MI5 Persecution: Barbican Library 6/2/2003 (29123)
Newsgroups: alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer
Followup-To: alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 18 Nov 2007 04:53:25 GMT
Lines: 31
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
Xref: g2news1.google.com alt.conspiracy.antichrist:2810 alt.peeves:2089

rec.radio.amateur.homebrew:14698 alt.fan.nikki-dial:141 hr.org.fer:137800

Barbican Library - 6/Feb/2003

Certainty level: 100%

Here's an item from early February 2003, at which time Security Service were re-igniting hostilities against me, a direct result of my appeal
for a legal hearing against their organisation. On Thursday 6/Feb/2003 I went to the Barbican in central London with my mother to visit the library
and have a meal. Security Service naturally knew about it because it had been mentioned the previous day in our house which is under constant
surveillance on grounds of "National Security", so they may have been able to inform staff there to say something to me, as has been done elsewhere.
Two of the people at the Enquiries desk in the library obviously knew of my circumstances, I spoke to one of them who was very polite, and while
I was waiting I heard the other speaking with a little less politeness, as recorded on this audio file. He said, "I spy", to start a game of
guess what "I spy"; unsubtle, MI5 Spy. Then, at the 34 second mark on this clip he said;

"So obvious you couldn't even get that. I shall have to kill you. ha, ha, ha"

The words "I shall have to kill you" are interesting because such overt expression is rarely heard. Security Service wish me extinct.
Some years ago they were openly shouting "suicide" at me, so that is established. But there is an element of doublethink in their attitude;
they use people's natural prejudice against mentally ill, who are popularly painted by media as being aggressive, to try to tinge the group's
view of me and MI5's actions against me. The Security Service religion is that the country's enemies are deadly, and must therefore be
extinguished. Hence, we must seize eagerly upon the disabled schizophrenic from Clapham, and throttle him, because who knows what'll happen if we don't.

There may be a subtle agenda of population control in what the Security Service have been doing in this country since 1990. In the current issue
of 2600 Magazine (the Hacker quarterly, which I read from time to time) there is a quote from Hermann Goering on page 2; "the people can always
be brought to the bidding of the leaders. All you have to do is tell them they are being attacked. It works the same in any country".
2600 printed the quote as a comment on the projected war against Iraq, which does not appear to pose any threat to the territory of
those countries which wish to invade it. However the quote is somewhat relevant to my case, which is widely known about within Britain;
the security service instructs all right thinking citizens to do MI5's bidding and band together against a common enemy, while at the same time
there is a suggestion of "look what'll happen to you if you don't obey us".

29123

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

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From -4218299663072067281
X-Google-Thread: fa1dc,efbd2c556d4ad593,start
X-Google-Thread: f79f6,efbd2c556d4ad593,start
X-Google-Thread: fc2a5,efbd2c556d4ad593,start
X-Google-Thread: fdf97,efbd2c556d4ad593,start
X-Google-Thread: fe6d9,efbd2c556d4ad593,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07101811581568@4ax.com>
Subject: MI5 Persecution: Bernard Levin - The Times (31298)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 18 Nov 2007 08:01:47 GMT
Lines: 104
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 100
Xref: g2news1.google.com alt.conspiracy.antichrist:2811 alt.peeves:2090
rec.radio.amateur.homebrew:14699 alt.fan.nikki-dial:142 hr.org.fer:137811
```

Fanatic's Fare for the Common Man

Certainty level: 90%

The article reproduced below was penned by Bernard Levin for the Features section of the Times on 21 September 1991. To my mind, it described the situation at the time and in particular a recent meeting with a friend, during which I for the first time admitted to someone other than my GP that I had been subjected to a conspiracy of harassment over the previous year and a half.

There is a madman running loose about London, called David Campbell; I have no reason to believe that he is violent, but he should certainly be approached with caution. You may know him by the curious glitter in his eyes and a persistent trembling of his hands; if that does not suffice, you will find him attempting to thrust no fewer than 48 books into your arms, all hardbacks, with a promise that, if you should return to the same meeting-place next year, he will heave another 80 at you.

If, by now, the police have arrived and are keeping a close watch on him, you may feel sufficiently emboldened to examine the books. The jackets are a model of uncluttered typography, elegantly and simply laid out; there is an unobtrusive colophon of a rising sun, probably not picked at random. Gaining confidence - the lunatic is smiling by now, and the policemen, who know about such things, have significantly removed their helmets - you could do worse than take the jacket off the first book in the pile. The only word possible to describe the binding is sumptuous; real cloth in a glorious shade of dark green, with the title and author in black and gold on the spine.

Look at it more closely; your eyes do not deceive you - it truly does have real top-bands and tail-bands, in yellow, and, for good measure, a silk marker ribbon in a lighter green. The paper is cream-wove and acid-free, and the book is sewn, not glued.

Throughout the encounter, I should have mentioned, our loony has been chattering away, although what he is trying to say is almost impossible to understand; after a time, however, he becomes sufficiently coherent to make clear that he is trying to sell the books to you. Well, now, such quality in bookmaking today can only be for collectors' limited editions at a fearsome price - �30, �40, �50?

No, no, he says, the glitter more powerful than ever and the trembling of his hands rapidly spreading throughout his entire body; no, no - the books are priced variously at �7, �8 or �9, with the top price �12.

At this, the policemen understandably put their helmets back on; one of them draws his truncheon and the other can be heard summoning reinforcements on his walkie-talkie. The madman bursts into tears, and swears it is all true.

And it is.

David Campbell has acquired the entire rights to the whole of the Everyman's Library, which died a lingering and shameful death a decade or so ago, and he proposes to start it all over again - 48 volumes this September and 80 more next year, in editions I have described, at the prices specified. He proposes to launch his amazing venture simultaneously in Britain and the United States, with the massive firepower of Random Century at his back in this country, and the dashing cavalry of Knopf across the water, and no one who loves literature and courage will forbear to cheer.

At the time this article was written I had believed for some time that columnists in the Times and other journalists had been making references to my situation. Nothing unusual about this you may think, plenty of people have the same sort of ideas and obviously the papers aren't writing about them, so why should my beliefs not be as false as those of others?

What makes this article so extraordinary is that three or four days immediately preceding its publication, I had a meeting with a friend, during the course of which we discussed the media persecution, and in particular that by Times columnists. It seemed to me, reading the article by Levin in Saturday�s paper, that he was describing in some detail his "artist�s impression" of that meeting. Most telling are the final sentences, when he writes, "The madman bursts into tears, and swears it is all true. And it is." Although I did not "burst into tears" (he seems to be using a bit of poetic licence and exaggerating) I did try hard to convince my friend that it was all true; and I am able to concur with Mr Levin, because, of course, it is.

At the beginning of the piece Levin reveals a fear of being attacked by the "irrational" subject of his story, saying "I have no reason to believe that he is violent, but he should certainly be approached with caution". This goes back to the xenophobic propaganda of "defence" against a "threat" which was seen at the very beginning of the harassment. The impression of a "madman running loose" who needs to be controlled through an agency which assigns to itself the mantle of the "police" is also one which had been expressed elsewhere.

In the final paragraph of this extract, his reference to Everyman�s Library as having "died a lingering and shameful death a decade or so ago" shows clearly what sort of conclusion they wish to their campaign. They want a permanent solution, and as they are prevented from achieving that solution directly, they waste significant resources on methods which have been repeatedly shown to be ineffective for such a purpose.

31298

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Message-Id: <m07101813422754@4ax.com>
Subject: MI5 Persecution: Come back, Norma! (33473)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer,uk.misc
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From: MI5Victim@mi5.gov.uk
Date: 18 Nov 2007 09:45:59 GMT
Lines: 42
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 38
Xref: g2news1.google.com alt.conspiracy.antichrist:2812 alt.peeves:2091 rec.radio.amateur.homebrew:14700 alt.fan.nikki-dial:143 hr.org.fer:137818

Private Eye, 23 Oct 1992

Certainty level: 25%

I'm not really sure whether this cover was intended to get at me, or whether it was re-interpreted after publication to be about me. This issue of Private Eye came out in October 1992, by which time I had been under severe continuous pressure at work and from the general population in Oxford for many months. It had John Major saying to his wife, "Come back, Norma!" under the title "Major's support lowest ever".

There's a story behind this. In late October I was in the local pub (the Rose and Crown, nice traditional name eh) with two people from work, Simon and Phil. Phil had with him a copy of the current Private Eye. These are both "nice people" and on my side, I hasten to add. Simon pointed out the message on the magazine's cover to Phil, and asked "what do you think about that". Phil answered, "Well usually they [Private Eye] get it right". This exchange happened in front of me. Although I was ill at the time (this was before I'd started taking medicines) I hadn't read anything into the Eye cover until these guys pointed it out to me.

Sometime later, again in the same road, a student shouted to one of his friends, "so when are you COMING BACK?", again in front of me.

What I realised Phil thought it meant was a double-entendre, the "coming" referring to the act of ejaculation, the "back" referring to the human back-side. So in a play on words you get a person who is referred to as a back-side ejaculating. Charming.

Of course, Phil could have been wrong. Perhaps there was no such meaning intended by Private Eye. Perhaps he saw meaning which wasn't there. Perhaps the moon is made from green cheese. Who knows?

33473

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From 2463140101132116939
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07101814432375@4ax.com>
Subject: MI5 Persecution: Victor Lewis-Smith (35648)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 18 Nov 2007 10:46:55 GMT
Lines: 33
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 29
Xref: g2news1.google.com alt.conspiracy.antichrist:2813 alt.peeves:2092 rec.radio.amateur.homebrew:14701 alt.fan.nikki-dial:144 hr.org.fer:137819

Victor Lewis-Smith

Certainty level: 10%

Victor Lewis-Smith has issued a denial through his webmaster John Hayward-Warburton regarding this article; he says quite categorically it's not written about me. I kind-of sort-of believe him, but I think the conspiracy is so wide that the phrase "Eventually, I had to leave because they were all trying to kill me" could have been intended to be as if from any paranoid person, but could have been influenced by my case in the particular. So the influence could have been sort-of subconscious.

This article is from the Evening Standard of Thursday May 8, 1997. It is titled "Goon, and best forgotten" and may be found on page 31.

I think VLS has written/produced stuff specifically about me in the past, both in his Evening Standard column, one of which is reproduced below (in another case, he was talking about computer hacking, and I think that was directed at me), and a television programme in around late 1993 when he has a taxi driver who says "they're all trying to kill me guv" and VLS responds "you're supposed to be quite intelligent aren't you".

However, his webmaster has issued a formal denial on his behalf, so it
is not for me to oppose what he has stated categorically.

35648

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From 5354836282001937572
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
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news.newsdemon.com!not-for-mail
Message-Id: <m07101816335152@4ax.com>
Subject: MI5 Persecution: Introduction to Sent Faxes (848)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 18 Nov 2007 12:37:24 GMT
Lines: 52
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 48
Xref: g2news1.google.com alt.conspiracy.antichrist:2814 alt.peeves:2093
rec.radio.amateur.homebrew:14702 alt.fan.nikki-dial:145 hr.org.fer:137826

Introduction to the Sent Faxes webpages

Between 1998 and April/2000 I sent some thirty articles on the subject of the MI5
Persecution to
British politicians, media, legal and diplomatic entities in the UK. Of those
articles 24 are reproduced
on this part of the website. They were originally composed as Microsoft Word
documents, and saved to HTML
form for publication here. A few of them were slightly edited in format for
readability.

You will see that these articles cover quite comprehensively what has been going on since 1990, there being quite a lot of material to cover, since it is a rare week that goes by without MI5 making some harassing or threatening action against me. "How could it be True?"... they use the mental illness which they induced in me as a ready explanation for my complaints. Who started it, why did it start, why it continues... these faxed articles provide examination in more depth of the treatment in the Frequently Asked Questions webpages. The sheer meaninglessness of the Secret Police actions is highlighted; their operatives make their livelihoods by cynically exploiting the taxpayers, when in a more responsible country they would be looking at the inside of prison cells.

The validity of this observation is proven by their reaction to my several suggestions in the articles that I would cease sending faxes if MI5's agents (and it's always the same people doing the persecution) desisted from continually harassing me. A number of times, you will see in the faxed articles, I have suggested that we come to a "peace of mind agreement" where I cease complaining and they cease harassing. On one occasion, I wrote to Hugh S.-W., the director of OCTS where I was employed in 1992-94 and who is aware of the circumstances, asking that he intercede to bring this matter to a close, by initiating a meeting between myself and the persecutors to mutually settle our differences; he didn't reply, but MI5 did soon after - they said "This is what you wanted, wasn't it?, some sort of confrontation?". The reality is the people stalking me are not interested in any settlement; for them crime pays, and pays handsomely; moreover it is State-approved crime; the Police will never investigate or take action; it is corruption on an incredible level and scale, and it has gone on for over a decade.

You will see that the articles contain three elements; firstly, there are original written articles, many in the first half of 1999 when I was writing new articles every week and sending them by email and fax during the weekend; then there are "MI5 Persecution Update" articles, which list happenings recent to a particular transmission; and finally there is the "old faithful" Frequently Asked Questions article which was sent on a few occasions during the three year period. These articles generated a number of interesting responses from politicians and other recipients, many of which are documented in the "received faxes" area of these webpages.

I hope you enjoy reading these articles. I'm not as angry as these articles necessarily make out, only sometimes, usually soon after the persecutors have said something unpleasant at me; the purpose of putting lots of fire and ire into the mix is to try to chuck it into the public domain which might lead to MI5 being forced to curb their actions. Unfortunately that aim was not achieved, despite many, many thousands of faxes being sent. Also, if any policemen are reading this, then I'm (a bit) sorry about the rude things I said about "the Bill" in one or two of the articles; the police have never done me any harm (yet) by commission, only by omission of doing anything to investigate my complaints or treat them seriously.

848

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
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From -5226075404849930673
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X-Google-Thread: f79f6,891a53762e5d22f7,start
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X-Google-Thread: fdf97,891a53762e5d22f7,start
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X-Google-Language: ENGLISH,ASCII-7-bit
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Message-Id: <m07101817413727@4ax.com>
Subject: MI5 Persecution: Faxes Sent to Diplomatic/Legal (3023)
Newsgroups: alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer
Followup-To: alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 18 Nov 2007 13:45:10 GMT
Lines: 352
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 348
Xref: g2news1.google.com alt.conspiracy.antichrist:2815 alt.peeves:2094 rec.radio.amateur.homebrew:14703 alt.fan.nikki-dial:146 hr.org.fer:137833

Faxes Sent to British Diplomatic/Legal logs

During the 1998-2000 period my records indicate that I sent at least 3,642 faxes to diplomatic and legal offices located in the British isles, of which 3,345 went via TPC's email-to-fax service and 297 were sent via fax-modem direct from my computer. The actual figure is somewhat higher since, for most of this period, whenever a recipient asked to be deleted from my mailing list, I totally wiped all entries including that from the logfile.

In the records "Y" indicates successful transmission from fax-modem, "N" indicates failed transmission from fax-modem.
"E" indicates an error occurred while transmitting via fax-modem and a fax may have been only partly transmitted.
"y" and "n" indicate success or failure via TPC.

In April 2000 I changed the method of operation by recording "R" when a recipient requested removal, rather than wiping their details from my mailing list and records; and keeping "B" records for when TPC actioned a ban on a recipient's fax-number, but the recipient did not write to ask me to cease faxing. The purpose of these changes was to keep more accurate and complete records, but the intention was thwarted by the police complaint.

```
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441712210448  yyynYnynyyyyy
441712212818  yyyyYyyyyyyyy
441712215685  yyyyYyyyyyyyy
441712250947  nynnYyynyyyyy
441712252130  nnnnYynnyyyyn
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441712275503  yyyyYyyyyyyyy
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441714954035	yyyyYyyyynyynn
441714954441	nyyyYyyynnnnnn
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441714958595	yyyyYyyyyyyyyn
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441715832094	yyyYyynnyyyyy
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441715832257	yyyyYyyyyyyyyy
441715832686	yynyYyynynyyyy
441715832823	yyyyYyyyyyynyy
441715833423	yyyyYyyyyyyyyy
441715834928	yyyyYyyyyyyyyn
441715835106	yyyyYyyyynyynn
441715835885	yyyyYyyyyyyyyy
441715837228	yyyyYyyyyyyyyy
441715839123	yyyyYyyyyynyyy
441715839127	yyyyYyyyyyyyyy
441715839144	yynnEyyyyyyyyy
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441716000289	yyyyYyyyyyyyyy
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441716021820	ynnnYyyyyyyyyy
441716075158	yyyyYyyynnnnnn
441716083746	yyyyYyyynnnnnn
441716294169	yyyyYynyyynyyy
441716647714	yyyyYyynyyyyyyy
441716969911	ynyyYyyyyyyyyy
441717083318	yyyyYyyynnnnnn
441717244174	yyyyYynyyyyyyy
441717247001	yyyyYynyyyynyy
441717249884	yynyYyyyyyyyyy
441717273693	yyyyYnyyyynB
441717275824	yyyyEynyyyyyyy
441717278625	yyyyYynnyyyyyy
441717278960	yyyyYyyyyyyyyy
441717279654	yyyyYyyyyyyyyy
441717279934	yyyyYyyyyyyyyn
441717301683	yyyyYyyyyyyyyy
441717305747	yyyyYyyynnnnnn
441717358147	yyyyYyyynnyynn
441717921708	nyyyYyyyyyyyyy
441717977100	yyyyYyyynnnnnn
441717977435	yyyyYyyynyyyyy
441717977550	yynnYyyyyyyyyy

```
441717977700  yyyyYyyyyyyyyy
441717977929  yynnYyynyyyyyy
441717978001  ynnnYyynyyyyyy
441717978101  yyyyYyyyyyyynn
441717978308  yyyyYyyyyynyyy
441717978401  yynnYnynynnnnn
441717978699  yyyyEyyyyyyyyy
441717978801  yyyyYyyyyyyyyy
441717978929  yyyyYyyyyyyyy
441718138080  yyyyYyyyyyyyy
441718231348  yyyyYynyyyyyyy
441718231712  yyyyYyyyyynyyy
441718237926  yyynYyyyyyyyyy
441718239695  yyynYyyynyyynn
441718239701  yyyyYyyyyyynyy
441718241435  yyyyYyyyyyyyyy
441718241566  yyyyYyyyyyyyyy
441718310125  ynnnYyynyyyyyy
441718310626  yyyyYnyyyyyyyy
441718312239  yyyyYyyyyyyyyy
441718312430  yyyyYyyyyyyyy
441718312469  yyyyYyyyyyyyyy
441718312575  yyyyYyyyyyyyy
441718314885  yyyyYyyyyyyyy
441718316016  yynyNyyyyyyyy
441718316109  yyyyYyyyyyyR
441718316112  yyyyYyyyyyyynn
441718316968  yynnYyynynnnnn
441718317107  yyyyEyyyyyyyyy
441718317907  yyyyYyyyyyyyyy
441718318102  ynyyYyyynyyynn
441718318129  yyyyYyyyyyyyyy
441718318237  yyyyYyyyyyyyy
441718318479  yyyyNyyyyyyyyy
441718319188  yyyyYyyyyyyyyy
441718362602  yyyyYyyyyyyyy
441718364331  yynyYyyyyyyyyy
441718374526  nyynNynnyyyyn
441718382001  yynnYyyyyyyyy
441718382046  yyynYyyyyyyyy
441718394580  yyyyYyyyyyyyy
441718398746  yyyyYyyyyyyyy
441718398958  yyyyYyyyyyyyy
441719175014  nynnYyyyyyyyy
441719175026  nyyyYyyyyyyy
441719225815  yyyyYyyyyyyyy
441719242704  yyyYyyynnnnn
441719308401  yyyYnnynyyyy
441719350034  yyyyYyyyynyyy
441719366709  yyyyYnyyyyyyy
441719366802  yynyYyyyyyyny
441719366810  yyyYyyyyyyyn
441719367230  yyyYnyyyyyyy
```

```
441719367428  yyyYyyyyyyyy
441719371783  yyyYyyyyyyyn
441719372925  yyyYyyyyyyy
441719375402  yyyYyyyyyyyy
441719375687  yyyyYynyyyyyn
441719376108  yyyyYyyyyyyyy
441719376741  nyyyYynnnyyyy
441719377505  yyyyYyyyyyyy
441719377918  yyyyEyyynnnnn
441719378069  yyyyYyynyyyyy
441719378795  yyyyYnyyyyyyy
441719381615  yyyyYynyyyyyy
441719382595  yyyyYynnnnny
441719579555  yyyyYyyyyyyy
441813127078  yyyyYyyyyyy
441813139624  yyyyYnyynnnn
441813164842  yyyyYnyyyyyy
441813165190  yyynNnnnnnnn
441813431324  yyyyYnynyyny
441814242209  yyyyYyynyyyy
441814530946  nyyyYnyynnyy
441815031152  yyynNnyyyyyn
441815532824  yyyyYyyyyyy
441815682401  yynyYyyyyyny
441815685368  yyyyYnynyyy
441816809801  yyyyYyyyyyyy
441816923910  yyyyYyyynnnn
441817600432  yyyyYyyyyyyn
441817811007  yyyyYyyyyy
441818030564  yyyyYyyyyyyy
441818779854  yyyyYyyynyyn
441818814802  yyyyYyyyyyyy
441819800670  yyyyYyyynnnn
441819891371  yyyyEyyyyyyy
```

No faxes were sent after April 2000.

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

```
From -217179033769123920
X-Google-Thread: fa1dc,dcd41dc897b01411,start
X-Google-Thread: f79f6,dcd41dc897b01411,start
X-Google-Thread: fc2a5,dcd41dc897b01411,start
X-Google-Thread: fdf97,dcd41dc897b01411,start
X-Google-Thread: fe6d9,dcd41dc897b01411,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.astraweb.com!border1.newsrouter.astraweb.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07101819251089@4ax.com>
Subject: MI5 Persecution: Faxes Sent to Media1 (5198)
Newsgroups: alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer
Followup-To: alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 18 Nov 2007 15:28:43 GMT
Lines: 451
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
Xref: g2news1.google.com alt.conspiracy.antichrist:2816 alt.peeves:2095 rec.radio.amateur.homebrew:14704 alt.fan.nikki-dial:147 hr.org.fer:137847

Faxes Sent to British Media logs

During the 1998-2000 period my records indicate that I sent at least 6,137 faxes to the British media,
of which 5,775 went via TPC's email-to-fax service and 362 were sent via fax-modem direct from my computer.
The actual figure is obviously higher since, for most of this period, whenever a recipient asked to be deleted
from my mailing list, I totally wiped all entries including that from the logfile.

In the records "Y" indicates successful transmission from fax-modem, "N" indicates failed transmission from fax-modem.
"E" indicates an error occurred while transmitting via fax-modem and a fax may have been only partly transmitted.
"y" and "n" indicate success or failure via TPC.

In April 2000 I changed the method of operation by recording "R" when a recipient requested removal, rather than
wiping their details from my mailing list and records; and keeping "B" records for when TPC actioned a ban on a
recipient's fax-number, but the recipient did not write to ask me to cease faxing. The purpose of these changes
was to keep more accurate and complete records, but the intention was thwarted by the police complaint.
Also in April 2000, I added some further fax numbers to my media mailing list and records, which is why some of the
faxnumbers below have only a single entry, and some indeed have none.

```
441132420652  yyyyyYyyyyyyyyyyyy
441132439387  yyyyyYyyyynyyyyyyyy
441132445107  yyyyyYyyyyyynyyyyyy
441132455139  n
```

```
441132460037  yyyyyYyyyyyyyyyyyyy
441132461105  yyyyyYyyynyyynnnnnn
441132836586  yyyyyYynyyyyyyyyyyy
441142664375  nnyyyyYyyyyyyyyyyyy
441142769089  yyyyyyYyyyynnnyyyyyy
441142853159  yyyyyYyyynyynyyyyy
441159012850  y
441159363497  n
441159420433  ynnnnYyynnyyyyyyyyy
441159455243  n
441159527001  ynyyyYynnyyynnyynny
441159550552  yyyyyYyyyyyyynnnnn
441159822568  n
441162311123  y
441162511463  yyyyyYyyyyyyyyyyyyy
441162512151  yyyyyYyyyyyyyyyyyyy
441162512979  n
441162561303  yyyyyYyyyyyyyyyynB
441162640948  yyyyyYyyyyyyyyyyyyn
441162667776  yyyyyyyYyyyyyyyyyyyyy
441179226744  n
441179238323  yyyyyNynyyyyyyyyyy
441179279568  n
441179298612  yyyynYyyyyyynnnnnn
441179317463  y
441179722400  yyyyyyyYyyyyyyyyyyyyyy
441179732549  yyyyyyyYyyyyynyyyyyy
441179741537  yyyyyyyYnnynyyyyyyyyy
441179744114  yyyyyyyYyyyyyynyyyyy
441179843202  yyyyynYynynyyyyynyyy
441202297904  n
441203407129  n
441203551744  yyyyyyYyyyynyyyyyyyy
441203695110  y
441203696867  n
441203868202  nyyyyYyyyyyyyyyyyyy
441203868205  yyyyyYynyyynyyyyyyy
441206561199  yyyyyYynyyyyyyyyyyn
441209314345  yyyyyYyyyyyyyyyyyy
441212330173  n
441212331465  y
441212367220  y
441212434536  y
441213591117  yyynyNyynyyyyyynnyn
441214141120  y
441214148181  yyyyyYnnnnnnnnnnnnn
441214148241  yyyyyEnnnnnnnnnnnnn
441214148634  yyyyyYnnnnnnnnnnnnn
441214148847  yyyyyNnnnnnnnnnnnn
441214148900  nyyyyYnnnnnnnnnnnnn
441214155026  n
441214547622  n
441214723174  yyyyyYyyyyyyyyyyyyy
```

```
441216161011  yyyyyYynyyyyynnnnnn
441216251346  y
441216262041  yyyyyYyyyyyyyyyyyyy
441216344766  yyyyyYyyyyyyyyyyyyy
441216437239  y
441216666370  yyyyyYyyyyyynnnnnn
441216932753  yyyyyYyyyynyynnnnnn
441216961007  yyyyyYyyynyyyyyyyy
441217066210  yyyyyYyyyyyynnnnB
441217090205  y
441217115824  y
441217533111  nyynnYnyyyynyyyyyyy
441222223157  yyyyyYyyyyyyyyyyyyy
441222224947  y
441222229326  y
441222384014  yyyyyYyyyynyyyyyy
441222498151  n
441222552973  yyyyyNyyyyyyyyyyyyy
441222555286  yyyyyYyyyyyyyyyyyyy
441222555960  yyyyyYyyyyyyyyyyyyn
441222597183  ynyyyYyyyyyyyyynyyy
441222615966  y
441222665650  n
441222798555  n
441223235161  yyyyyNyyyyyyyyyyyyy
441223315052  nnnnnYnnnnnnnynyyyy
441223361508  yyyyyYyyyyyyyyyyyyy
441223460832  yyyyyYyyyyyyyyyyyy
441223467106  yyyyyYyyyyyyyyynyy
441224212163  y
441224633282  nyyyyYyynyyyyyyyyyy
441224637289  yyyynYynynnyyyyynyy
441224846800  yyyyyYyyyyyyyyyyyyy
441225448688  n
441225460709  y
441225775198  y
441227771558  nyyyyYyyyyyyynnnnnn
441228511195  nyynnYyyynyyyyyyyyy
441228810453  yyyyyYyynyyyyyyyyyy
441228818444  yyyyyYyyyyyyyynyyyy
441228819444  yyyyyYyyyyyyyyyyyyy
441229870008  ynnyyEyyyyyyyyyyyyy
441232246695  yyyyyYyyyyyyynyyyny
441232311740  y
441232338800  yyyyyYyyyynyyyyyyyy
441232338801  yyyyyYyyyyyyyyynyyy
441232381915  yyyyyYyyyyynynnnnyn
441232454406  n
441232541550  n
441232682111  y
441232682757  y
441232700029  y
441233641816  y
```

441233812707	n
441234218580	nyyynEyynyynnyyyyyn
441234270580	y
441235436899	y
441235524024	yyyyyYyyyyynyyyyyy
441235822746	y
441235835163	n
441237423333	yyyyyYyyyyyyyyyyyyy
441242255671	n
441242584270	y
441242621343	y
441242699666	yyynyYyyyyyyyyyyyyy
441243576456	yyyyyYyyyyynnnnnB
441243775878	y
441243786464	yyyyyyyyYyyyyyyyyyyyy
441244341677	n
441244678749	y
441245267228	yynnyynnYynyyyyyyyynyy
441245492983	nyyyyynEyyyyyyynnyyyy
441246582227	n
441247814974	yyyyyyyYnyyyyyyyyyny
441247818913	yyyyyyyYyyyyyyyyyyyyy
441248351443	yyynyyynYynyyyyyyynyyy
441252725007	n
441253301965	yyynyynyYyyynyyynyyyyy
441254680821	nyyyEyyyyyyyyyyyy
441256492599	y
441257450036	n
441273404280	yyyyyYyyyyyynyyynyy
441273430098	yyynyYyyyyyynyyyyyy
441273440229	y
441273486852	y
441274720375	n
441274728534	yynnnYnnnnnnnnnnnyn
441274771680	yyyyyYnyynynnynynB
441274828555	y
441279430009	n
441279431059	y
441279445289	yynnyYynnnnnyyyyy
441285647247	y
441292283665	nyynyYyyyyyyyynyyyy
441293560927	ynyyyYynnnnyyyyyyyy
441293565663	yyyyyYnyyyyyyyyynny
441293820517	n
441295270659	n
441296398988	yyyyyEyyyyyyyyyyyyy
441303272292	yyyyyNyyyyyyyyyyyyy
441303283874	yyyyyNyynyyyyyyyyyy
441305250052	yyyyyYyynyyyyyyyyyy
441305250910	yyyyyYyyyyyyyynyyy
441312202443	yynyyyNyyyyyyyyyyyynn
441312204344	yyyyyyYyyyyyyyyyyyyy
441312204819	y

441312254580	y
441312267420	yynyyyYyyynyyyyyyyyy
441312283220	n
441312284293	y
441312284333	n
441312285462	n
441312442674	n
441312444785	n
441313152906	y
441313177202	y
441313344473	y
441314462279	y
441315552869	n
441315575881	y
441315579699	y
441315583277	yyyyyYyyyynyyyyyyyy
441316621323	y
441316648001	n
441316688741	y
441322550553	nyyyyYyyyynyyyyyyyy
441322667633	y
441324630515	y
441325368824	n
441327361514	y
441332290794	yyyyyYyyyyyyyyyyyy
441332292229	yyyyyYyynynnnnnnnnn
441332386036	y
441334762661	n
441342850244	y
441343540142	nnnnnYynyyyyyyyyyyy
441344770990	y
441352759009	y
441352759821	yyyyyYnnnnnnnnnnnnn
441355262626	y
441372377526	y
441372465041	n
441373452888	y
441376521222	y
441382202188	yyyyyYynyyynyyyyyyn
441382454590	y
441382480230	yyyynNnnnnnnnnnnnnn
441382593252	yyyyyYyyyyyyynnnnnn
441387251121	y
441387265629	yyynyYnyyyyyynnynyn
441392425570	nyyyYyyyyyyyyyyyyy
441392428048	y
441392444433	yyyyyYyyyyyyyyyyyny
441392444644	yyyyyYyyyyyyyyyyyy
441397701007	yyyyEyyyyyyyyyyyy
441403234714	y
441412210283	yyyyyNyyyyyynyyyny
441412213595	n
441412264541	n

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441412272090  n
441412481099  y
441412482362  yyyyyYyyynnnnnnnB
441412482470  n
441413003030  yyyyyYyyyyyyyynyyy
441413062265  yyyyyYyyyyyyyyyyy
441413062266  nynnnYynnnnnynnnnn
441413062322  yyyyyYyyyyynyynnnn
441413312126  yyyyyYyyyynyyyyyyy
441413325448  yyyyyNynnyyyyyyyny
441413327990  y
441413340614  ynnnnYyyyynyynyyyy
441413373031  y
441413382937  yyyyyYnyyynnnnnnB
441413382955  yyyyyYyyyyyyyyyyny
441413533292  yyyyyYyyyyyynnnnnn
441415322562  yyyyyYnyyynyyyyyyn
441415521344  yyyyyNyyyyyyyyyyyy
441418870963  nynyyYnyyyyyyyyyyy
441420475831  y
441420544044  yyyyyYyynyyyyyyyyy
441423522922  yyyyyYyyyyynyyyyyy
441423526294  n
441424870877  nnnyyYnnnnnnnnnnB
441428658971  yyyyyYyyyyyyyyyyyn
441428751057  y
441442877407  nnnynYyyyyyyyyyyyy
441442877409  nyyyyEyyyyyyyyyyyy
441443226500  n
441452300581  y
441452309491  yynyyYyyyyyyyyynyyy
441452423008  yyyyyYyyyyyynnnnnnn
441452529446  yyyyyYnyyynnnnnnnnn
441452652750  y
441453759311  n
441453890827  y
441454281094  y
441463243224  yyyyyYyyynyyyyyyyyy
441463715384  yyyyyYyynynyyynyyyy
441467632969  yyyyyYyyyyyyyyyyyyy
441472341967  yyyyyYyyyyyynynyyn
441473210887  yyyyyYyyyyyyyyyyyyyy
441473218447  n
441473233279  yyynyYyyyyyyyyyyyny
441473741200  yyyyyYynyyyyyyyyyyy
441477535756  y
44148149676   yyyyyYyyyyynnnnnnB
441481496768  yyyyyYyynyyyyyyyyyy
441481713557  yyynnEynyyyyyyyyyyy
441482226409  nyyyyEyyynyyyyyyyyy
441482586028  yyyyyYnyyyyyyyyyyyn
441482587067  yynyyEyyyynyyynyyy
441482848833  n
```

441483203378	n
441483304952	yyyyyYyyyyyyyyyyyyy
441483454443	yyyynYyyyyyyynynyn
441483506331	y
441483573686	y
441483764895	nyynyNnnnnnnnnnnnB
441484530604	n
441485600672	y
441488686900	n
441489589453	yyyyyYnnnyyyyyyyyyn
441491571635	y
441492535248	yyyyyYyynyyyynyynnn
441492543226	y
441494445400	yyyyyNyyyyyyyyyyyyy
441504260067	yyyyyYyyyyyyyynnnnn
441504269048	nyynyYyyynnnnnnnnB
441504311177	yyyyyEyyyyyyyyyyyyy
441505702333	yyyyyYyyyyyyyyyyyyy
441512362180	y
441514710330	yyyynNnnyyynnnynyyy
441514710333	yyyyyYyyyyyyynyyyyy
441516321698	y
441516325484	n
441517093389	yyyyyYyyyyyyyyynnny
441522511058	yyyyyYnyynyyyyyyyyy
441522511616	n
441522514162	yyyyyEyyyyynyyyynyn
441522549911	yyyyyYyyyyyyyyyyyyy
441524848787	yyyyyYyyyyyyyyyyyyy
441532443430	
44153432569	yyynyYyynyyyyyyyyny
441534816817	yyyyyYyyyyyynyyyyy
441534887799	yyyyyYyyyyyyyyyyyyy
441536517390	yyyyYyyynyyyyyyny
441539445128	y
441543417154	y
441552560589	
441553617137	n
441553766453	yyyyyYyyyyyyyyyyyny
441553767200	nyyyyYnyyyyynynnnyy
441582401214	yyynyYnnnnyyyyyyyn
441582401467	nyyyyYyyyyyyyyyyyyy
441582493486	y
441582746978	y
441584875900	yyyyyYnyynynnynyyyy
441590612624	y
441595695696	yyyyyYyyyynnnnnnnB
441603222602	y
441603415781	n
441603507723	y
441603612930	y
441603613483	nyyyyYnyyyyyynnnnnn
441603615494	yyyyyYyyyyyyyyyyyyy

441603630892	yyyyyYynyyyyyyyyyny
441603631032	yyyynYyyyyyyyyyyyyy
441603633631	yyynnYyyyyyyyyyyyyy
441603633692	yyyyyYyyyyyyyyyyyyy
441603666252	yyyyyYynyynyyyynynn
441603666353	yyyyyYyyyyyyyyyyyyy
441603667865	yyyyyYyyyyyyyyyyyyy
441603761245	yyyyyEyyyyyyyyyyyyy
441604230709	yyyyyYyyyyyyyyyyyyy
441604670635	y
441604795601	ynnnyYyyyyynynyyyny
441612281020	yyyyyYyyyyyyyyyyyyy
441612362427	n
441612364535	nyyyyYyyyyyyynyyynn
441612365804	yyyyyYyynyyyyyyyyny
441612369443	yyyyyYyyyyyynyyyyny
441612375353	y
441612889000	yyyyyNnynnnnnnyynny
441616836065	yyyyyYyyyyyyyyyyyyy
441618272029	yyyyyYyyyyyyyyyyyyy
441618320788	yyyyyYynynyyyyyyyyy
441618325351	y
441618328809	yyyyYyyyyyyyyyyyny
441618392066	n
441618398048	n
441618487824	yyyyyYyyyynyyyyyyy
441618720206	yyyyYyyyynyyyyyyyn
441618771005	yyyyYnnnnyyyynyyyy
441619692709	n
441622714000	yyyyyYyyyyyyyyyyyyy
441623427316	y
441624661411	yyyyyYyynyyyyyyyyyy
441625524510	y
441625583537	n
441625584344	yynnyYnnnnnnnnnnnnn
441631570057	yyyyyYyyyyyyyyynnyn
441634264701	n
441634830573	yyyyyYyyyyyyyyyyyyy
441634830930	n
441638665789	n
441642211356	yyyyyYyyyyyyyyyyyny
441642244595	n
441642566560	yyyyyYyyyyyynyyyyyy
441648763828	nyyyyYnnyyyyynnnnnn
441686623666	yyyyyYnyyyyyynnyny
441702345224	yyyyyYyyyyyyyyyyyy
441702556248	n
441703223388	yyyyyYyyyyynnnnB
441703232983	n
441703329404	y
441703335050	nyyyyYyyyyynyyyyyy
441703339648	yyyyyYyyyyyyyyyyy
441703339931	nyyyyYnnnnyyyyyyyy

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441703630289  n
441705291709  y
441705358863  yyyyyYyynyyyynyyyy
441708727305  n
441708865870  n
441712097484  yyyyyYyynyyynyyyyy
441712110507  nyyyyYyyyynnnyyyyy
441712116270  y
441712174907  n
441712185857  yyyyyYyyyyyyyyyyy
441712186460  y
441712216341  nynnnYynnnnnnynnnn
441712220792  y
441712220832  yyyyyEyyyyyynnnnnn
441712221555  n
441712223172  nyyynYyyyyyyyyyy
441712225889  yyyyyYyynyyynnnnB
441712235631  nyyyyYnnnnnnnnnnB
441712241868  y
441712244452  y
441712272005  y
441712290352  yyyyyYyyyyyyyyyyyn
441712293395  yR
441712302691  n
441712302818  y
441712322302  ynyyyYyyynnnnnnnB
441712330335  n
441712330397  yyyyyYyyyyyyyyyyyy
441712332065  yyyyyYyyyyyyynnnnn
441712333161  n
441712333534  yyyyyYyyyyyyyyyyyy
441712333686  y
441712336706  yyyyyYynyyynyyyyyy
441712337899  y
441712343300  n
441712368136  nnnnnYnnnnnnnnnnB
441712388446  y
441712401153  y
441712402254  n
441712404171  yyyyyYnnnnnnnyyyyy
441712404399  n
441712405518  y
441712407517  y
441712428961  n
441712430542  n
441712447875  yyyyyYyyyyyyyyyyyy
441712478979  y
441712480133  y
441712492751  n
441712500212  y
441712500966  y
441712501204  n
441712512725  y
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```
441712537406  n

5198
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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

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From 2330244344543331885
X-Google-Thread: fa1dc,142110bbd0e1caea,start
X-Google-Thread: f79f6,142110bbd0e1caea,start
X-Google-Thread: fc2a5,142110bbd0e1caea,start
X-Google-Thread: fdf97,142110bbd0e1caea,start
X-Google-Thread: fe6d9,142110bbd0e1caea,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: UKRAINIAN,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07101820540506@4ax.com>
Subject: MI5 Persecution: Faxes Sent to Media2 (7373)
Newsgroups:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-
dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 18 Nov 2007 16:57:38 GMT
Lines: 487
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 483
Xref: g2news1.google.com alt.conspiracy.antichrist:2817 alt.peeves:2096
rec.radio.amateur.homebrew:14705 alt.fan.nikki-dial:148 hr.org.fer:137853

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441712613250  yyyyyNyyyyyyyynyyyy
441712616023  y
441712626199  y
441712662563  y
441712671396  y
441712700618  y
441712706079  n
441712726653  n
441712734660  y
441712736421  y
441712748994  y
```

441712749630	y
441712765179	n
441712768633	n
441712780345	y
441712780504	n
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441712786232	y
441712786941	yyyyyYyyyyyyyyyyyy
441712788480	ynnnnYynnynnnnnnB
441712822040	y
441712837037	n
441712842835	yynyYyyyyyyynnnnn
441712843374	yyyyyYnnnnnnnnnnB
441712843641	n
441712844494	n
441712847788	yyyyyEynnnnnnyynyy
441712896392	n
441712932435	yyyyyYyynnyyyyyynn
441712933098	y
441712933405	yyyyyYyynyyyyyyyy
441712933517	y
441712933587	y
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441713067737	y
441713067800	yyyyyYynyyyyyyyyyy
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441713068357	yyyyyYnyyyyyyyyyny
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441713932099	y
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441714012537	n
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441714044167	y
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441714057062	yyyyyYnnnnyyyyyyyy
441714057064	y
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441714075700	yyyyyYyyyyynyyyyyy
441714100906	y
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441714127379	y
441714127771	y
441714130340	n
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441714140262	n
441714165379	y
441714216006	yyyyyYyyyyyyyyyyyy
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441714301384	y
441714301779	n
441714341197	yyyyyYyyyyyynyyyny
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441714363562	n
441714363986	n

441714365290	n
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441714376886	y
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441714397318	n
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441714807662	y
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441714866565	n
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441714900436	y
441714901255	yyyyyYyyyyyyyyyy
441714904706	
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441714999751	
441715058220	
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441715372661	
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441715376721	
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441715386242	yyynYyyyyyyyyyy
441715387872	
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441715427921	yyyyyYyyyyyyyyyy
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441715807725	nyyyyNnnnnnnnnnn
441715814431	yyynyYyyyyyyyyyy
441715817000	yynynYnnnnnnnnnn
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441715831519	
441715833441	
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441715833769	ynyyyYyynyyyynyyn
441715835901	
441715836608	yyyyyYynynyyyyyyy
441715836868	yyyyyYyyyyyynyyyy
441715837073	
441715838353	
441715839504	yyyyYyyyyyyyyyyn
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441716315119	yyyyyYyyyyyyyyyny
441716330244	yyyyyYyyynnynynyy
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441716361053	nyyyyYnnnnnnnnnnn
441716362628	yyyyyYnyyyyyynnnn
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441716365668	
441716371439	
441716371630	yyyyyYyynynnnnnnn
441716372127	
441716372748	nyyyyYyyyyyyynnn
441716373925	yyyyyYnyynyyyyyyy
441716376868	yyyyyNyynyyyyyyyn
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441716968996	
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441717003979	nnyyyYynnnnnnyyn
441717040313	
441717053030	yyyyyYyyyyyyyyyny
441717131840	yyyyyYyyyyyyynnn
441717136161	
441717228512	
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441717650612	yyyyyYyyyyyyyyyy
441717653774	yyyyyNyyyyyyynnnn
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441717655838	yynyyYyynyyynyyyy
441717666100	nyyynYnnnynyyyyyy
441717673959	

441717823252	
441717825658	yyyynNyynyyyyynyy
441717829902	ynnnnYyyyyynyyyyy
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441717987710	
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441718149899	
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441718219352	yyyyyYyyyyyyyyyy
441718231621	
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441718277710	yyynyNnnnnynyyyyy
441718277721	yyynyYnyyyyynyyyy
441718287269	yyyyyYyynnnnnnnnB
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441718306220	
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441718317477	
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441718330381	
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441718371192	yyyyyYyyyyyyyyyyy
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441718374942	
441718375118	yyynyYyyyyyyyyyyy
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441718378143	yyyyyYyyyyyyyyyyy
441718395805	
441718738200	yyyyyNnnnnnnyyyyy
441718959020	yyyyyYyyyyyyyyyyy
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441719282067	yyyyYyyyyyyyyyyy
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441719362689	yyyyyNynyyynyny
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441719766478	
441722415102	yyyynYyyyynyyyyyy
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441733281445	yyyynYnyyyynnyyny
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441743271702	yyyyyYyyyyyyyyyyy
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441745855534	
441747855722	ynnnnYnyyyyyyyyny
441752222778	
441752234595	yyyyyYyyyyyyyyyyy
441752255962	yyyyyYyyyyyyyyyyy

441752333444	ynnnnNyyyyyyyyynn
441752670730	yyyyyYyyyyyyyyyyy
441753512277	yyyyyYyyyyyyyyyyy
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441772618356	yyyyyNyyyyyyyyyyy
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441782747777	nnnnYnnnnnnyyyy
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441813121930	ynnnnYnnnnynnnyyy
441813126632	
441813320495	nynnnYynnnnnnyyyy
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441814442313	yyyyyYyyyyyynnnB
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441815093190	
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441815767624	yyyyyYyyyyyynnyy
441815990984	yyyyyEyyyyyyynyyy
441815990989	
441816006119	yyynyNnnnnnnnnnnn
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441817404622	yyyyyYyyyyyyyyyyy
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441817524398	yyyyYyyyyyynyyyy
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441817597739	
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441818008005	yyyyYyyyyyynyyyn
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441818547476	
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441818815151	yyyyYyyyyyyyyny
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441819059729	
441819070073	
441819431198	
441819802041	
441819813779	yyyyNynnnnnnnnnB
441819833846	
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441823321044	yyyyYyyynyyyyyyn
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441902772415	
441902838266	yyyyYyyyyyyynnnn
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441904610067	nyyyYnnnnnnnnnn
441904610937	nyyyYyyyyyyyyyyy

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441905766293
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441908694008  yyyyYyyyyyyynnnn
441912210112  yyyyYyyyyyyyyyy
441912220013
441912321710
441912325082  yyyyYyyyyyynyyyy
441912612302  yyyyYyyyyyyyyyyy
441912618571  yyyyYynyyyyyyyyn
441914775660  yyyyYyyyyyynyyny
441914880933  yyyyYyyyyyyyynnn
441914888611  nyyyYyyyyyyyyyyy
441914889222  yyyyYyyyyyyyyyyy
441915670888  nnnnNnnnnnnnnnnn
441920487056
441923425457
441923664606
441924466522
441926403958
441926424760  yyyyYyyyyyyyyyyy
441926831532
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441932854750
441932859661  yyyyYyyyyyyyyyy
441942884397  yyyyNyyyyyyyyyyy
441946724889
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441952291035
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441970627206  ynnnYnnyynyynnnB
441978758565  yyyyYyyyyyyyyyyy
441978759701  yyyYyyyyyyyyyn
441983821690  yyyYyyyyyyyyyyn
441984623901  yynYyyyynyynnnn
441992555647
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No faxes were sent after April 2000.

7373

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From 6329537003676825504

X-Google-Thread: fc2a5,87982d325063e226
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!sn-xt-sjc-03!sn-xt-sjc-09!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Koltner" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PCB Layout S/W Recmondations?
Date: Sun, 18 Nov 2007 13:45:19 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13k1cjgabiml592@corp.supernews.com>
References: <Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70> <H96dnX_xE-apvKPanZ2dnUVZ_jWdnZ2d@velocitywest.net> <13jvndf8t2g6b29@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 13
Xref: g2news1.google.com rec.radio.amateur.homebrew:14706

"David Harmon" <source@netcom.com> wrote in message news:13jvndf8t2g6b29@corp.supernews.com...

> Which is basically paying ransom to get back your designs which are
> being held hostage.

It is, but given that they gave you the design software for free, it's a pretty reasonable business proposition if you're aware of everything when you start doing business with them -- no one forces you to use that free software, after all.

From 2802247541152134049
X-Google-Thread: fa1dc,1f1964baeb7cfaf0,start
X-Google-Thread: f79f6,1f1964baeb7cfaf0,start
X-Google-Thread: fc2a5,1f1964baeb7cfaf0,start
X-Google-Thread: fdf97,1f1964baeb7cfaf0,start
X-Google-Thread: fe6d9,1f1964baeb7cfaf0,start
X-Google-Attributes: gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,gidfe6d9,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07101822351025@4ax.com>
Subject: MI5 Persecution: Faxes Sent to Parliament1 (9548)
Newsgroups: alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-

dial,hr.org.fer
Followup-To:
alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,hr.org.fer,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 18 Nov 2007 18:38:43 GMT
Lines: 230
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 226
Xref: g2news1.google.com alt.conspiracy.antichrist:2818 alt.peeves:2097
rec.radio.amateur.homebrew:14707 alt.fan.nikki-dial:149 hr.org.fer:137865

Faxes Sent to British Parliament logs

During the 1998-2000 period my records indicate that I sent at least 14,480 faxes to the British Parliament
in Westminster, of which 9,138 went via TPC's email-to-fax service and 5,342 were sent via fax-modem direct from
my computer. The actual figure is obviously much higher since, for most of this period, whenever a recipient asked to
be deleted from my mailing list, I totally wiped all entries including that from the logfile.

In the records "Y" indicates successful transmission from fax-modem, "N" indicates failed transmission from fax-modem.
"E" indicates an error occurred while transmitting via fax-modem and a fax may have been only partly transmitted.
"y" and "n" indicate success or failure via TPC.

In April 2000 I changed the method of operation by recording "R" when a recipient requested removal, rather than
wiping their details from my mailing list and records; and keeping "B" records for when TPC actioned a ban on a
recipient's fax-number, but the recipient did not write to ask me to cease faxing. The purpose of these changes
was to keep more accurate and complete records, but the intention was thwarted by the police complaint.

```
441712190076  nnnnnynnEnnnnnnYYNNYYYYNENNNNNynynnnnnnnnnnNnnnnnnnn
441712190179  yyyynnyyyYnyyyyynYYYNYYYYYYEYEEEyyyyyyynyyyynyyyyy
441712190189  yyynyyyyyYyyyyyyyYYYEYYYYYYYYYYYyyyyyyyyyyyyyyyyyyy
441712190243  yyyyyyyyyYnnnnnnnYYYYYYYYYYYYYYYnynnnnnnnnnNnnnnnnnn
441712190246  ynnnyyyyyYnyyynyyYYYYYYYYYYYYYYYynyyyynyyyyyyyyyy
441712190253  yynnnnnnnNnnnnnnnNNNNNNNNENNYNNNnnnnnnnnnnnNnnynnnnn
441712190254  yyyyyyyyYnynynyyYYEEEYYEEYYEYEYyyynyynyynynyyyyyn
441712190266  yyyyyyyyYyyyyyyYYYYYEYYYYYNYYYyyynyyyynyyyyyyyyyy
441712190300  yyyyyyyynYyyyynnYYYYYYYYYYYYYYYnnyyyyyyyyyyyyyyyyy
441712190301  yyyyyyyyyYnnyyyyYYYYYYYYENNYYYYnyyyynynyynyyynnnB
441712190305  yyynnynyYynnyynYYEYYYEEYYYYEYYynyynyyyynyNnyyynyyy
441712190309  ynyyyyyyYynynnYYYYYYYYYYYYYYYyyyyyyyyyyyyyyyyyyy
441712190317  yyyyyyyyYyyyyyyYYYNNYYYYYYYYYEyyynnnyyyyynynnnynn
```

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441712190319  nyyyynnnNnnnnnnNNNNNNNNNNNNNNnnnnnnnnnnnNnnnnnnnn
441712190323  nyyyyyyYyyyyyyNNNNNNNNNNNNNNnnnnnnnnnnnnnnnnnn
441712190329  yyyyyyyyYyyyyyyYYYYYEYYYYYYYYYyyyyyynyyyyyyyyyy
441712190331  ynyynnnnYyynnnnYYNYYYYYYNNYYYYynynnnnnnnnNnnnnnn
441712190332  nnynnynyYyyynyyYNYYYYYYYYYYYYYynynynnnnnnNnnnnnnn
441712190337  ynyyyyyyYyyyyyyYYYYEYYEYYYYYYYyyyyyyynyyyyyyyyy
441712190350  yyyyyyyyYyyyyyyNNNNNNNNNNNYYYYynyyyyyyyyyyyyyyyyy
441712190371  yyynnnnnNnynyyyYNNNNNYYNNNNNNNnnnnnnnnnnnnnnnnnn
441712190390  yyyynyynYynyynyYYYYYYYYYYYYYYYyyyyyyynnynyyyyyy
441712190409  nnyyyynyYyyyyyyYYYYYYYYYYENYYYyyyyyyyyyyyyyynnyyy
441712190438  yyynnnnnNyyynyyYYYYYYEYYYEYYYYyyynynyyyyyyyyyyyyy
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441712190448  yyyyyyyyYyyyyyyYYYYYYYYEYYEYYYyyyyyynnynnyyyyyyyy
441712190461  nynnnnyyYynnnnnYYYYYYYYYEYYEEYyyyynyyynynynnyyyyy
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441712190495  ynnnnnnNyyyyyyYYEYYYYEYYYYYYEyyyyyyyyyyyyyyyyyy
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441712190536  yyyyyyyyYyyyyyyYYYEYYEYYYYYEEYyyyyyynynnnYnnnnnnB
441712190559  yyyyyyyyYyyyyyyYYYEYYYYYYYYYYYyyyyyyyyyyyyyyyyyy
441712190573  nyyyyyyyYyyynnnYYYYYYYYYYYYYYNnnyyyyyyyyynnnnnyy
441712190598  nyyyyyyYynynyyYYYYYYEYYYYNNNNyyyynyyyyyyyyyyynyy
441712190612  ynnnnyyyYnynnyyYYYYYYYYYYYEYYYyyyyynnynyyyyyyyyy
441712190620  yyyyyyyyYyyyyyyEYEYYYYYYYYYYYEyyyyyyyyyyyyyyyyyyny
441712190622  yyyyyyyyYyynyyyYYYYYNYYNYYYYYYyyyyyyynyyyyyyyyyy
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441712190638  yynnyyyyYnyyyyyYYYYYYYYYYYYYYYyyyyyyyyyyyyyyyyyyyy
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441712190696  yynnnyyEnnyyyYEYEYYYYEEEYYYYyyyyyyyyyyyyyyyyyy
441712190698  yyyyyyyyYyyyyyEYYYYNNNNNNNNNNnyynnyynyyynyyynnnnn
441712190770  yyyyyyyyYynnyyyYYYYYYEYYYYYYYYyyyyyyynyyyyynyynyy
441712190783  yyyyyyyyYyyyyyyYYYYYYYYYYNEYYYyyyynyyyyyyNnyyyyyyy
441712190789  nnyyyynyYnnnnyyEYNYYYYEYENYYEEyyyyyyyyynyyyynyyyyn
441712190790  yyyyyyyyYyyyyyyYYYYYYYYYYYYYYYnnnyyyyyyyyyyyyyyyy
441712190904  yyyyyyyyYyyyyyyYYEEYYYYEYYEYYYyyyyyyyyyyyyyyyyy
441712190912  yyyyyyyyYyynyyYYYYYYYYYYYYYEYynyynyyyyyyyyyyynyyy
441712190913  yynyyyyyYyyyyyyYYYEENYYEYYYYYYyyyyynnyyyyyyyyynyyy
441712190919  yynnnnnnYynnnnnNYYYEYNYYYEYYNEyyynnyyynyynnyyyny
441712190923  yyyyyyyyYyyyyyyYYYYEYYYEYYYYYYyyyyyyynnyyyyyyyyyy
441712190926  yyyyyyyYynyyyyYYEENYYEYYEYYYYynyyyyyyyyyyyyyynyyy
441712190928  yynyyyyyYnnnnnnNNNNNNNNNNNNNNNnnnnnnnnnnnnnnnnnn
441712190931  yynynyyyYyyyyyYYYYYYYYYYYYYYNnnyyyyyyyyyNnnyyyyyy
441712190938  yyyyyyyyYyyyyyNYYYENYYNYNEEYYyyyynnnnnynNnnnnnnnn
441712190943  yyyyyyyyYynnnnYYYEYYYYYENNYEEnnyyynnynyyyyyyyyyyn
441712190946  ynyyyyyyYyynyyYYYYYYYYYYYYYYEyynnnnnnnnynnnnnyn
441712190949  yyyyyyyyYynnyyYYEEEYYYNEYNYYYnyynnyyyyyyyyynnnB
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441712190965  nnyynnnnYnnnnnYYYYYYYNYYYYYYYnynnnnnnyyNnyyyyyyy
441712190971  yyyyynyYynyyyYYYYYYYYYYYYYNYyyyyyyyyyyyyyyyynyy
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441712190978  yyyyyyyyYyyyyyYYYYYYYYYYYEYEYyyyyyyyyyyyyyyyyB
441712190979  yyyyyyyyYyyyyyYYYYYYYYYYYYYYYyyyyyyyyyyyyyyyyyyy
441712190981  ynyyyyyyYyyyyyYYEYYYYYEYYYYEYyyyyyyyyyyyyyyyyyy
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441712190987  yyyynyyyYyyynyYYYYYYNYNNNNEYYynnnyyyyyyyyyyyyyy
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441712191154  yyyyyyyyYyyyyyyYYYYYYYYYYYYYYYyynynyyynyynyyyyyy
441712191158  ynnnnnnnYyynnnnYYYYYYYYYYYYYYYynnnnnnnnnnnnnnnnnn
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441712191162  yyyynyyyYnnnnnnYYYYYYYYYYYYYYYyyyyyyyyyynyyyyyyy
441712191163  yyyyyyyyYynyynyYYYEYYYYYYYYYYEyyyyyyyyynyynyyyyynR
441712191174  ynnnnnynYyyynynYEYYYYYYYYYYNNNyyyyyyyyyyyyyyyynyyyy
441712191177  yyyyyyyyYyyyyyyYYYYYYYYYYYYYYYyyyyyyyyyyynyyyyyyy
441712191179  nyyyyyyyYynyyyyYYYYYYYYYYYYYYYyyynyynnnynyyynynnn
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441712191185  nyyyyyyyYnnnyyyYYYEYYYYYYYYEYYyynnnnnnyyynnnyyyny
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441712191227  yyyyyyyyYyyyyyyYYYYYYYYYYYYYYYyyynyyyyyyNnnnyyyyny
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441712192075  yyyyyyyyYyyyyyyYYEYYYYEYYYYNYYyyyyyyyyyyyyyyyyyyy
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441712192112  yyyyyyyyNyyyyyyYYYYYYYYYNNEYYYyyyyyyyyyyyyyyyyyy
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441712192130  ynnnnnnnYyynnnYYYYYYYYYYYYYYYynnnnnnnnnnnnnnnnnn
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441712192220  yyyyyyyyYynyyyyYYYYYYYEYYYNYYYyyyyyyyyynnyyyyyny
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441712192233  yyynnyyyYyyyyyyYYYYYEEYEEYYYYYnnnyyyynyyynyynynyn
441712192252  yyyyyyyyYyyyyyyNYYYYYYYYYYNYEYyyynyyyyyyyyyyyyyny
441712192262  yynnnyyyYynnyyyNNNNNNNNNNNNNNNnnnnnnnnnnnnnnnnnn
441712192269  yyyyyyyyYyyyyyyYYYYYYYYYEYYYYYyyyyyyyyyyyyyyyyyy
```

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441712192289  yyyyyyyyYyyyyyyYYYYYYYYNYYYYYYyyyyyyyyyyyynyyyyny
441712192302  yyynnyyyEnnyyyyEYYYYYNYYYYYYYYyyynynynnnyyynynnyn
441712192328  yyyyyyyyYyynyyyYNYYYYYEYYEYYYYyyynyyyyyyynyyyyyyny
441712192329  yyyyyyyyYyyyyyyYYYYYYYYYYYEYYEnyyyyyyyyyyyyyyyyyy
441712192331  yynyyyynyYnnnnnnYYEEYEEYEENNYNNynnnnnnnnynnNnynyynny
441712192334  ynyyyyynNyyyyyyYYEEYYEEYYYYEEYyyyynyynynnynyyyynyy
441712192338  ynnnnnnnYyynnnnYYEYYYYEYEYYYYYynnnnnynnnnnnnnnnnn
441712192357  yyynyyyyYyyyyynYEYYNYYYYYYYYYYyyyyyyynyyyynynyB
441712192359  yyyynyyyYyyyyyyYYYYYYYYYYEYYYYyyynyyyyyyyyyynyyyy
441712192364  nnnnnnnyEynnnnYYNYYYYEYENNNNNnyyyyyyyyynnNnnnnnnn
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441712192404  yyyyyyyyYyyyyyyNYYYEYYYYYYYYYYyynyynyyyyyyyyyyyyy
441712192412  yyynyyyyYyyyyyyYEEYEYNEYNYYYYYnyynynnynnnynyyyynyn
441712192413  yyyyyyyyEyynyyyYYYYYYYEYYYYEYYyyyyyyyyyyyyyyyyyyy
441712192417  yyyyyynyYyynynnNYNYYYYYYYYYYYYyyyynyyynnNnnyyyyyy
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441712192423  yynnnynyYyyyyyyYYYYYYYYEYYYEYYyyyyyynnnnyynyyynyn
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441712192450  nnynyyyYynnnnnYYNYYYYYNYYYEYYnyyynnyynnyNnnnnnyB
441712192451  yyynyyyYyyynyyYYYYYYNEYYNYYYYyyyyynynyyyNnnnyynny
441712192455  yyyyyyyyYnyyyyyNYYYYYYYYYYYYYYyyyyyyyyyynyyyyyyyyy
441712192461  yyyyynyyYyyyyyYEYYYYYYYYYYYYYynyyynyyyyyyyyyyyyy
441712192476  yyyyyyyyYyyyyyyYYYYYYYYYYYYYYYyyyyyyyyyyyyyyyyyyy
441712192477  yyyyyyyYynnnnnEYYYYYYYYYYYYYYyyyyyyyyyyyyyyyynyyy
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441712192518  yyyyyyyYyyyyyyYYYYYYYYYEYYYYYyyyyyyyyyyyyyyyyyyy
441712192521  nyyyyyyyYynnyyyYEYYYYYYYEYNYYYyyyyyyyyyynyNnnnyyyyy
441712192529  ynyyyyyYynnyyYYYEEEEYEYYENEYynyyynyyyyyyyyyyyyy
441712192536  nyyyyyyyYynyyyyyYYYYYYYYEYNYYYYnyynyyyynyyynyyyyy
441712192539  yyyyyyyyYnyyyyyEEYYYYYYYYYYYYYyyyyyyyyyyyyyyyyy
441712192541  yyyyyyynYynnnnnYYNYYNNEYYYYYYNnnnnyyyyyyyNnnyynnny
441712192545  yyyyyyyyYyyyyyyYYYYYYYYYYYYYYYyyyyyyyyyyyyyyyynyy
441712192557  nyyyyyyyYynnnnnYEYYEYYYYEYYYNYyyyynnnynynNnnnnnnn
441712192564  yyyyyyyyYnyyyyyYYYEYYYYYYYNYYYyyynyyyynyyyyyyyyyn
441712192567  nynyyyynYynyyyyYYNYYYNEYEYYYYYyyyyyyyyyyyyyyyynn
441712192570  yyyyynyyYyyyyyYYYYYYYYYYYYYYYyyyyyynyyyyyyynyyyy
441712192571  yyyyyyyyYyyyyynYYYYYYYYYYYYYYYyyyyyyyyynynyyyyyyy
441712192573  yyyyyyyyYyyyyyyYYYYYYYYYYYYYYYyyyyyyyyyyyyyynyyyyy
441712192586  yyyyyyyyYnyynyyYYYYYYYYYYYYYYYyyyynyyyyyyyyyyynyyy
441712192608  yyyyyyyyYyynyyyYYYYYEEYYEYEYEYyyynyynyyyyyyyyyyyy
441712192619  yyyynynyYnynyyyYYYYYYYNYYEYYYEnnyyynynynnYnnnnnB
441712192621  ynnnnnnnYynnnnnNYNYNNYYYYEENNNnnnnnnnnnnnNnnnnnnn
441712192622  yyyyyyynYyyyyyyYYEYYYYYYYYYYYYyyyyyyyyyyyyyyyyyyy
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441712192629  nnnnnnnnEnnnnnnEEEEEEEEEEEEEEEnnnnnnnnnnnnnnnnnnn
441712192630  nnnnnnnnYnnnnnnEYYYNYEYEYNYYYYnyynynnynynNnyyyyyy
441712192643  ynyyyyyyYyyyyyyYYYYYYYYYYYYYYYyyyyyyyyyyyNnynyyyyy
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441712192690  yyyyyyyYyyyyyyYYYYYNNYYYYYYYYyyyyyyyyyyyyyyyyyy
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441712192697  yynynnnNnnnnnnNNYNYYYYNNYNYYYyyynnnyyyyyNnyynyyy
441712192698  yynnnnnYnnnnnnNNEYYYEYYYNNNYYnyyyyyyyyyyyynynnn
441712192706  nynnnnnYyyyyyyYYYYYYYYYYYYYEYyyyynyyyyyyyynyyy
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441712192708  ynyyyyyYnnynyyYYYYYYYYEYEYYYYnnynnnynnnnynnynnnn
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441712192711  ynnnnnnYynyyyyYYYYYYYYYYYYYEYnnnnnnnnyyyyyyyny
441712192731  nnyyyynYyyyyyyYYYNYYYYYYNYEYYyyyyyyyyyyyyyyyyyy
441712192738  yyyyyyyEynyyyyYYYYYYYYYYYYYYYyyyyyyyyyyyyyyyyyyyy
441712192747  ynyyyyyYnnnnnnNNNNNNNNNNNNNNNnnnnnnnnnnnnnnnnnnnn
441712192749  yyyyyyyNyyyyyyYYYYYYYYYYYYYYYyyyyyyyyyyyyyyyyyyyy
441712192763  yyyyyyyYnnnnyyYEEEEEEEEEEEYNYyyyyyyyyyynnnyyyyyyy
441712192771  yyyyyyyYnnnnnnNNNNNNNNNNNNNNNnnnnnnnnnnnnnnnnnnnn
441712192772  yyyyyyyYyyyyyyYYYYEYYYEYYYYEYyyyyyyyyyynyynynyynn
441712192782  yyyyynYyyyynyYNNYEYYYYEYYYYYynynnyyyyynyyynynyy
441712192795  yyyyyyYyyyyyyYYYYNYYYYYYYYYYyyyyyyyyyyyyyyyynyy
441712192797  yyyyyyYnnnnnnYYYYYYYEYYYYYYEyyyyyyyyynyyyyyyyyy
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441712192849  yyyyyyYyyyyyyYYYYYYYYYYYYYYYyyyyyyyyyyyyyyyyny

9548



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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access


From -2370911442329815734
X-Google-Thread: fc2a5,c460f7e204afeba5
X-Google-Thread: 115730,c460f7e204afeba5
X-Google-Attributes: gidfc2a5,gid115730,public,usenet
X-Google-Language: ENGLISH,ASCII
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news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 21 Nov 2007 02:44:11 -0600
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From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.equipment
References: <47348811$0$27377$ba4acef3@news.orange.fr>
<8%4Zi.5950$L97.4277@newsfe19.lga> <HX5Zi.2500$Od.940@newsfe16.lga>
<uLedncSHsNrk6KjanZ2dnUVZ_q2hnZ2d@comcast.com>
<4739c841$0$5099$ba4acef3@news.orange.fr>
Subject: Re: RF replacement diode for Boonton detector ?
Date: Wed, 21 Nov 2007 02:44:11 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <zLudnbA-ft1Gct7anZ2dnUVZ_vumnZ2d@comcast.com>
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14708
sci.electronics.equipment:9654

It has been down since I changed from AT&T. I still need to set up another one.

Pete

"Robert Lacoste" <use-contact-at-www-alciom-com-for-email> wrote in message
news:4739c841$0$5099$ba4acef3@news.orange.fr...
>
> "Pete KE9OA" <p.gianako@comcast.net> a �crit dans le message de news:
> uLedncSHsNrk6KjanZ2dnUVZ_q2hnZ2d@comcast.com...
>>I wonder if it is similar to the RF Voltmeter probes. They also use a dual
>>diode design.
>>
>> Pete
>
> Very probably similar, at least if the frequency bands are similar
> (100KHz-18GHz for the 51013 probe I want to repair).
> Pete, where is your web site ?
>
> Thanks for your advices !
> Robert
>
>

From 2284891051860155773
X-Google-Thread: fc2a5,6d87f0ce2d952787
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <46d3ad20@clear.net.nz>
<1188309893.275082.219520@r34g2000hsd.googlegroups.com> <46d523c5@clear.net.nz>
Subject: Re: Kenwood TS-820s finals.
Date: Wed, 21 Nov 2007 11:01:59 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
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NNTP-Posting-Host: 75.191.181.199
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:14709

"cliff wright" <c.c.wright@paradise.net.nz> wrote in message
news:46d523c5@clear.net.nz...
> Tim Shoppa wrote:
>> On Aug 28, 1:05 am, cliff wright <c.c.wri...@paradise.net.nz> wrote:
>>
>>>Good day all!
>>>I've been having some problems with my 820s. It was fine for several
>>>years and then I had a flashover in the finals. This may have been due
>>>to a faulty ground on a "UHF" coax connector.
>>>Have replaced the finals with 12 volt 6146B's (putting the heaters in
>>>parallel of course). However although it now works, its effeciency is
>>>damned awful. When it is loaded up to give 60 watts RF into a dummy load
>>>the dissappation in 6146 anodes makes then glow cherry red!!!
>>>Now my info tells me that the 6146B is rated at 30 watts anode
>>>dissappation per tube (total 60 watts) so based on my 50 odd years of
>>>electronics wouldn't expect a red hot anode at anything like the
>>>theoretical 66% efficiency.
>>>Yes, I have replaced the anode coupling cap (with an appropriate 3Kv rf
>>>type) checked all the tube voltages set up the neutralisation and tried
>>>the rig on all bands to ensure that the padding caps are OK. Same result!
>>>My thinking is that my 6146B's may be in poor condition. Unfortunately
>>>My old Heath valve tester does not do a very good job on big power
>>>valves so although it says they are OK I don't really trust it.

>>>So far I can't locate any parasitics up to about 120 MHz either.
>>>Anyone had a similar problem? I am getting so fed up with it that I'm
>>>thinking of running with 1x6146 and building a small linear amp
>>>~400watts to drive the antennas.
>>>Regards Cliff Wright ZL1BDA ex G3NIA.
>>
>>
>> Cliff -
>>   You mean "wired in parallel".
>>
>>   A flashover in the final compartment can take out other things. You
>> may have a failed plate choke, a leaky/lossy blocking capacitor, etc.
>> Often the damage is visible (as in "plate choke is on fire" or
>> "coupling capacitor looks like a burnt black potato chip") but other
>> times it is not so visible - e.g. arcover inside the plate choke that
>> makes it look OK from the outside, may even give the same DC
>> resistance on an ohmmeter, but completely negates its usefulness in
>> letting the plates swing at RF.
>>
>>   You don't say what your 12V 6146's are (you keep on calling them
>> 6146B's but obviously they cannot be), but some of them are not
>> directly drop-in, they require not just tweaking the neutralization
>> but a change in biasing. I'd expect if you're truly putting 60W out,
>> that you can look at the power in (Volts times Amps) and figure out if
>> the dissipation should be making them glow red or not. It's possible
>> the metering circuitry got fried in the arcover too (some meter the
>> cathode current, some meter the plate current, but in either case the
>> resistors used as meter shunts can go wrong, or sometimes the chokes
>> and bypass caps between the final compartment and the meter can go bad
>> too.)
>>
>> If the plates are going red with what you think ought to be just idle
>> bias on the tubes, then you either have a bias problem, a metering
>> problem, or a nasty runaway parasitic, or all three! Often these
>> symptoms do not arrive in isolation but in threes!
>>
>> Tim.
>>
> Hi Guys!
> Well I got a chance to look at the TS820S today and solved at least some
> of the mystery. When I had the flashover the meter went O/C so i had to
> replace it with a simlar meter with the original face.
> Although it worked fine as an S meter on RX and Ok for the plate voltage
> and RF levels it turned out to be about 40% LESS sensitive than the
> original. When I carefully checked the cathode resistors (5 Ohms)I
> discovered that the meter was reading about that much too low!
> Result Class A linear amplifier!!!!!
> No wonder the anodes were getting hot!!!
> Set things up properly by altering the multiplier resistor for the meter
> from 3.3K to 2.2K and everything starts to run in AB1 as it should and I
> get 80 Watts without red hot anodes!
> However the overheating has definitely damaged my finals and I think that
> they are a bit gassy as they Anode current on key down definitely drifts

> upwards.
> So next Junk sale I'll be looking for some more 6883B's as replacements,
> fortunately as I explained they are quite common here in NZ.
> Many thanks for all your suggestions, it just goes to show how easy it is
> to miss the obvious even after more than 50 years in electronics.
> Best 73's Cliff Wright ZL1BDA ex G3NIA.

A flashover on my homebrew amp took out the screen bypass cap. Dont think it hd yor symptoms but something to check.

Jimmie

From 9198684869821294945
X-Google-Thread: fc2a5,87982d325063e226
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!feeder2-2.proxad.net!62.253.162.218.MISMATCH!news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!newsfe5-win.ntli.net.POSTED!53ab2750!not-for-mail
From: "Alt Beer" <null@null.nul>
Newsgroups: rec.radio.amateur.homebrew
References: <Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70>
Subject: Re: PCB Layout S/W Recmondations?
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <9D21j.41972$T8.3978@newsfe5-win.ntli.net>
Date: Wed, 21 Nov 2007 22:50:45 GMT
NNTP-Posting-Host: 86.31.80.124
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe5-win.ntli.net 1195685445 86.31.80.124 (Wed, 21 Nov 2007 22:50:45 GMT)
NNTP-Posting-Date: Wed, 21 Nov 2007 22:50:45 GMT
Organization: ntl Virgin ADSL News Service
Xref: g2news1.google.com rec.radio.amateur.homebrew:14710

"John Tartar" <john_tartar@yahoo.com> wrote in message news:Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70...
> Does anyone know of a simple, but free PCB layout software.
>
> Or a way to convert .pcb files from EXPRESSPCB to industry standard
> format.
>
> I currently use ExpressPCBs layout s/w which is fine for my applications
> and great for prototypes. But I want the option to use other vendors when
> the volume gets high, i.e. selling kits.

FreePCB (completely free)   http://www.freepcb.com/

CirCad (Omniglyph V5 has a free version) http://www.holophase.com/

From -2247408011573061103
X-Google-Thread: fc2a5,aaf35d24c2c68597,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!
newscon02.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr12.news.prodigy.net.POSTED!add6133f!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Antique Transmitter Yahoo Group
From: Gary@ removenospamandputkf9cm.com
X-Newsreader: News Rover 12.2.0 (http://www.NewsRover.com)
Lines: 7
Message-ID: <wG61j.73482$Um6.2501@newssvr12.news.prodigy.net>
NNTP-Posting-Host: 76.217.108.164
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr12.news.prodigy.net 1195702044 ST000 76.217.108.164 (Wed, 21 Nov 2007 22:27:24 EST)
NNTP-Posting-Date: Wed, 21 Nov 2007 22:27:24 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
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SA_QLFC^RQHUPH[P[NRWCCMLSNPOD_ESALHUK@TDFUZHBLJ\XGKL^NXA\EVHSP[D_C^B_^JCX^W]CHBAX]
POG@SSAZQ\LE[DCNMUPG_VSC@VJM
Date: Thu, 22 Nov 2007 03:27:24 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:14711

While surfing the net I came across a lot of Hams building and
restoring old transmitters. I'm starting this group to further that
endeavour.

http://groups.yahoo.com/group/AntiqueTransmitters

73 de Gary,KF9CM

From 6548676161427189253
X-Google-Thread: fc2a5,2b994521f4341dc7,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.194.251.MISMATCH!transit4.readnews.com!textspool1.readnews.com!news-out.readnews.com!postnews3.readnews.com!posts.news.usenetmonster.com!

```
nnrp3.asbnva.usenetmonster.com!not-for-mail
From: "JimL" <jimbethladd@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: WTB 2.5" Millen Dials
Date: Thu, 22 Nov 2007 13:18:17 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Lines: 4
Message-ID: <4745c66a$0$6678$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
NNTP-Posting-Host: 19ba954f.news.usenetmonster.com
X-Trace: DXC=j<5fS^:?
\1_3G<hoS]0JN^m>XX`Id5knX`IohDjb_78\n<N<=2od\mQS@nCFQNo27TV]UnmY7I`F^GdkLWN=Z0@Uai
K<[OXbb4ZXBZ?Da0J9E]:nVA5b@0g__
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:14712
```

Greetings- Looking for one or two Millen dials with the 0 to 100 calibrated
skirts. The skirts are 2.5" in dia. Millen no. is 10009. Tnx, Jim

```
From -3199516746832123844
X-Google-Thread: fc2a5,dd966ac27ac32b72
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o6g2000hsd.googlegroups.com!not-for-
mail
From: Tom <holden_family@sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Beat modulation of IF by Product Detector?
Date: Thu, 22 Nov 2007 20:57:02 -0800 (PST)
Organization: http://groups.google.com
Lines: 144
Message-ID: <15506c8a-2c46-4448-ab01-e97839add93a@o6g2000hsd.googlegroups.com>
References: <19837dfc-fbbb-4bad-a9e9-d3d964447bc6@c30g2000hsa.googlegroups.com>
     <188bd42f-0794-41fa-bfd8-59f87505aa66@i29g2000prf.googlegroups.com>
     <f0cb8e09-3bd3-4184-9993-f35b185d1907@w34g2000hsg.googlegroups.com>
     <c1f48f79-8c0e-438d-ba86-907f8130cd5e@w28g2000hsf.googlegroups.com>
NNTP-Posting-Host: 65.95.104.184
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1195793822 28584 127.0.0.1 (23 Nov 2007 04:57:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 23 Nov 2007 04:57:02 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: o6g2000hsd.googlegroups.com; posting-host=65.95.104.184;
     posting-account=dSeW1wgAAACmKsq9OPblBZ8hpo9AeSuQ
```

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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
     1.1.4322),gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14713

On Nov 16, 12:23 pm, K7ITM <k7...@msn.com> wrote:
> On Nov 16, 7:26 am, Tom <holden_fam...@sympatico.ca> wrote:
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> > > > something on the order of 50 Ohms. Is that a reasonable conclusion?
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> > > > I've posted an article to the Files section of the FT817 Yahoo!
Group:http://groups.yahoo.com/group/FT817/files/Audio%20Distortion%20-%20Re...
>
> > > > 73, Tom VE3MEO
>
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> > > a week ago I was looking at a Spice simulation of a mixer to
> > > baseband:  really just a product detector.  I noticed the same effect,
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```

>
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> > > source is linear, the loading that depends on the relative phase
> > > between the LO and the IF signals does not cause distortion, just
> > > modulation. On the other hand, if the source impedance looking back
> > > into the IF is not constant with varying load, there will be
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> > > @ K7ITM- Hide quoted text -
>
> > > - Show quoted text -
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>
> > I agree with your point about testing; sadly, I lack the equipment to
> > do so. I have one rather poor RF source - an old B+K function gennie -
> > and my notebook computer for audio analysis. My old Eico tube
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> > it may not be easily discerned visually anyway without a reference
> > sine wave superposed or subtracted.
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> > amplitude modulation of the input envelope at the beat frequency,
> > however caused, should result in a distortion of the output beat
> > frequency signal that would not be present if the envelope was a
> > constant. Amplitude modulation at any other frequency would result in
> > a second beat note in the LPF output. I'll have to noodle about this
> > some more and see if I can come up with some test.
>
> > 73, Tom VE3MEO
>
> Hi Tom,
>
> Well, you can simulate it and see if you get distortion in the
> output. You can create a "product detector" using just Spice

> switches, switched at the LO frequency. My model, which I haven't
> gotten back to yet since seeing your orig. posting, is of a Tayloe-
> type mixer, but I would not be at all surprised to see the same effect
> with other configurations. In LTSpice you can do an FFT of the output
> results to look for distortion products, but if you want to look at
> really low distortion, you need to subtract out the fundamental(s);
> I've seen a limit of around 80-100dB dynamic range (as I recall).
>
> I do have equipment to test for distortion. I may be able to do some
> of that this afternoon. I'll let you know what I find.
>
> Cheers,
> Tom- Hide quoted text -
>
> - Show quoted text -

With a LTspice simulation of a MC1496, I've confirmed that the impedance between the CW source and the product detector input does have an effect on the distortion of the audio beat note output as well as distorting the envelope of the input signal. Now I cannot vouch for the accuracy of the model - it's one that I found in a message on a forum but the envelope modulation of the CW carrier can look very similar to what I see in the FT-817 with the appropriate choice of amplitudes and series resistance. I stepped the source amplitude through the distortion minimum of the audio output for three levels of source resistance: 1K, 51 and 1 Ohm and obtained THD of 7.7%, 5.3% and 5% respectively. All these were done with the BFO source resistance at 51 Ohm; at 1 Ohm for both the signal and BFO, the output THD dropped to about 3.5%; distortion of the BFO envelope by dynamic loading is visible at 51 Ohms.

Now these levels of THD are not especially impressive which is why I'm questioning the model. The circuit is that for a product detector straight off the ON-semi datasheet. I think the NJM2594 bears some resemblance to the MC1496 - both switching differential amplifiers rather than diodes but maybe offers a higher input impedance.

Aaagh - I have to revise this. While writing this, I discovered that the product detector schematic in the Application Note AN531/D has a couple of extra components that make a huge difference in distortion and output level - now getting as low as 0.1% for that last example! That's where it should be. I'll re-run these sims and revise the results (and maybe the conclusion!).

Tom VE3MEO

From -6580985029616407150
X-Google-Thread: fc2a5,dd966ac27ac32b72
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!b15g2000hsa.googlegroups.com!not-for-mail

From: Tom <holden_family@sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Beat modulation of IF by Product Detector?
Date: Fri, 23 Nov 2007 06:27:15 -0800 (PST)
Organization: http://groups.google.com
Lines: 158
Message-ID: <33b9b89a-8e87-4f66-a9d3-39cd75f54289@b15g2000hsa.googlegroups.com>
References: <19837dfc-fbbb-4bad-a9e9-d3d964447bc6@c30g2000hsa.googlegroups.com>
     <188bd42f-0794-41fa-bfd8-59f87505aa66@i29g2000prf.googlegroups.com>
     <f0cb8e09-3bd3-4184-9993-f35b185d1907@w34g2000hsg.googlegroups.com>
     <c1f48f79-8c0e-438d-ba86-907f8130cd5e@w28g2000hsf.googlegroups.com>
     <15506c8a-2c46-4448-ab01-e97839add93a@o6g2000hsd.googlegroups.com>
NNTP-Posting-Host: 65.95.104.184
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Trace: posting.google.com 1195828054 11626 127.0.0.1 (23 Nov 2007 14:27:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 23 Nov 2007 14:27:34 +0000 (UTC)
Complaints-To: groups-abuse@google.com
Injection-Info: b15g2000hsa.googlegroups.com; posting-host=65.95.104.184;
     posting-account=dSeW1wgAAACmKsq9OPblBZ8hpo9AeSuQ
User-Agent: G2/1.0
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     1.1.4322),gzip(gfe),gzip(gfe)
Content-Disposition: inline
Xref: g2news1.google.com rec.radio.amateur.homebrew:14714

On Nov 22, 11:57 pm, Tom <holden_fam...@sympatico.ca> wrote:
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> > Well, you can simulate it and see if you get distortion in the
> > output. You can create a "product detector" using just Spice
> > switches, switched at the LO frequency. My model, which I haven't
> > gotten back to yet since seeing your orig. posting, is of a Tayloe-
> > type mixer, but I would not be at all surprised to see the same effect
> > with other configurations. In LTSpice you can do an FFT of the output
> > results to look for distortion products, but if you want to look at
> > really low distortion, you need to subtract out the fundamental(s);
> > I've seen a limit of around 80-100dB dynamic range (as I recall).
>
> > I do have equipment to test for distortion. I may be able to do some
> > of that this afternoon. I'll let you know what I find.
>
> > Cheers,
> > Tom- Hide quoted text -
>
> > - Show quoted text -
>
> With a LTspice simulation of a MC1496, I've confirmed that the
> impedance between the CW source and the product detector input does
> have an effect on the distortion of the audio beat note output as well
> as distorting the envelope of the input signal. Now I cannot vouch for
> the accuracy of the model - it's one that I found in a message on a
> forum but the envelope modulation of the CW carrier can look very
> similar to what I see in the FT-817 with the appropriate choice of
> amplitudes and series resistance. I stepped the source amplitude
> through the distortion minimum of the audio output for three levels of
> source resistance: 1K, 51 and 1 Ohm and obtained THD of 7.7%, 5.3% and
> 5% respectively. All these were done with the BFO source resistance at
> 51 Ohm; at 1 Ohm for both the signal and BFO, the output THD dropped
> to about 3.5%; distortion of the BFO envelope by dynamic loading is

> visible at 51 Ohms.
>
> Now these levels of THD are not especially impressive which is why I'm
> questioning the model. The circuit is that for a product detector
> straight off the ON-semi datasheet. I think the NJM2594 bears some
> resemblance to the MC1496 - both switching differential amplifiers
> rather than diodes but maybe offers a higher input impedance.
>
> Aaagh - I have to revise this. While writing this, I discovered that
> the product detector schematic in the Application Note AN531/D has a
> couple of extra components that make a huge difference in distortion
> and output level - now getting as low as 0.1% for that last example!
> That's where it should be. I'll re-run these sims and revise the
> results (and maybe the conclusion!).
>
> Tom VE3MEO- Hide quoted text -
>
> - Show quoted text -

Major retraction! The appnote has one extra component and I missed one
on the datasheet when capturing to LTspice. With those in place, I see
no modulation of the input CW envelope by the product beat note and
the output distortion is consistently much lower than what I saw with
the erroneous schematic. Now that leaves me wondering if the circuit
around the NJM2594 in the FT-817ND is optimum or am I seeing a
simulation that represents an ideal that is unattainable in practice.

Tom VE3MEO

From -3798992792230027l9
X-Google-Thread: fc2a5,8361beff5cdf6014
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newsfeed.stanford.edu!news.kjsl.com!
ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6.0 volt Filament
Date: 8 Nov 2007 16:51:35 GMT
Organization: The National Capital FreeNet
Lines: 55
Message-ID: <fgveqn$40r$1@theodyn.ncf.ca>
References: <47314c55$0$25104$4c368faf@roadrunner.com>
<1194531016.330180.266490@e34g2000pro.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1194540695 4123 134.117.136.48 (8 Nov 2007 16:51:35 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 8 Nov 2007 16:51:35 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:14615

Tim Shoppa (shoppa@trailing-edge.com) writes:

> On Nov 7, 8:38 pm, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
>> "Tim Shoppa" <sho...@trailing-edge.com> wrote in message
>>
>> news:1194449203.531259.179800@k79g2000hse.googlegroups.com...
>>
>>
>>
>>
>>
>> > On Nov 7, 12:25 am, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
>> >> Im trying to build a n amp using 4cx250s and need 6.0 volts for the
>> >> filament. The only transformers I have are 6.3. Can I just use a ballast
>> >> resistor to drop it down. My other thought was to wire another 6.3 volt
>> >> transformer as an autotransformer to reduce the voltage and use this to
>> >> feed
>> >> the filament transformer.
>>
>> > Generally either just the wiring between the transformer and the tube
>> > sockets, or the filament choke if operating grounded-grid, will
>> > provide a drop of that kind.
>>
>> > Usually we hams find ourselves in the case of having too much drop in
>> > our filament wiring. Strange that someone would think that the
>> > opposite to be a worry :-).
>>
>> > 0.3V out of 6.0V is only 5%. For a lot of medium to large-size amps on
>> > household sockets (especially 110V), you see the incoming AC line
>> > voltage drop more than 5% when you key up :-).
>>
>> > Some transformers have primary and/or secondary taps if you are really
>> > picky about filament voltage.
>>
>> > Tim.
>>
>> It was my understanding that the 4cx250s were picky about that extra .3
>> volt.
>
> All I'm saying is that with all the primary and secondary drops, not
> to mention any sag in your house wiring, you may end up at exactly
> 6.0V when keyed up anyway. Give it a shot and if you discover you're
> still 0.3V too high, then put in some dropping resistors (maybe just a
> few feet of hookup wire). How many 4CX250's? They're about 2.6A
> filament current each, so if you have three and need to drop 0.3V,
> it's just 0.038 ohms.
>
> Tim.
>
And I seem to recall warnings about measuring right at the tube pins,
so the wiring from the transformer and the even the pins of the socket
are taken into account.

Michael VE2BVW

From 6633075684345416950
X-Google-Thread: 109dbd,a525a3053f40f502,start
X-Google-Thread: fc2a5,a525a3053f40f502,start
X-Google-Thread: fc2a5,a525a3053f40f502,start
X-Google-Attributes: gid109dbd,gidfc2a5,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!news.suddenlink.net!not-for-mail
From: U. U. Hover <ppearson@spamcop.net>
Message-ID: <1d1Isz9blvzLFtPwpniLJ6w@spill.co.cr>
Newsgroups: alt.movies.filmmakers-amateur,rec.radio.amateur.homebrew,allgaeu.org.fhk,rec.radio.amateur.homebrew
Subject: Gul Al Omari should interview her at times the regulation
Date: Fri, 8 Nov 2007 21:39:43 GMT
Organization: Brian's performance
Followup-To: news.admin.net-abuse.policy
User-Agent: slrn/0.9.8.1pl1 (Debian)
Lines: 61
NNTP-Posting-Host: 74.195.33.146
X-Complaints-To: abuse@suddenlink.net
Xref: g2news1.google.com alt.movies.filmmakers-amateur:288 rec.radio.amateur.homebrew:14616

Reply by email, filling out this form and emailing it to me.
Trimming off the rest of this post is unnecessary.

I will guarantee anonymity except in cases of blatant abuse.
I will achieve anonymity by tallying the results in
uncorrelated tabulations and then deleting the emails.
(I know this loses interesting correlation data, but if
resondents want anonymity it's hard to avoid.)
I know that this anonymity promise depends on trust and that
you have no particular reason to trust me. Someday, I hope.
I will post results Saturday.

```
 xxxxxxxx  beginning of survey  xxxxxxxx

 yes( )   ( )no Should RoadRunner be subjected to some kind of UDP?
 yes( )   ( )no ... active UDP (cancels) ?
 yes( )   ( )no ... passive UDP (drop messages) ?
 yes( )   ( )no ... all-groups UDP? (as opposed to specific groups)
 yes( )   ( )no Are you a Usenet sysadmin? How big:_   How long:_
 yes( )   ( )no Should another server be subjected to UDP? Who:_
 yes( )   ( )no Should UDPs be used more often?
 yes( )   ( )no Should UDPs be used less often?
 yes( )   ( )no Would you have answered this survey without anonymity?

 xxxxxxxx  end of survey  xxxxxxxx
```

--

not work, therefore they shall not eat, said the Communists, but they shall do one service in providing food. It is now an offence to have a dog or a cat or a pet of any kind." I looked in horror at the monk. An offence to keep a pet! Instinctively I looked again at the Chakpori. "What happened to our cats there?" I asked.

"Killed and eaten," was the reply.

I sighed and thought, "Oh! If I could tell people the truth about Communism, how they really treat people. If only the Westerners were not so squeamish!"

I thought of the community of nuns of whom I had

heard so recently from a high lama who, upon his journey, had come across a lone survivor and heard her story before she died in his arms. Her community of nuns, she told him, had been invaded by a wild band of Chinese soldiers. They had desecrated the Sacred Objects and stolen all that there was of value. The aged Superior, they had stripped and rubbed her with butter. Then they had set her alight and laughed and shouted with joy at her screams. At last her poor blackened body lay still upon the ground, and a soldier drew his bayonet the length of her body to make sure that she was dead.

Old nuns were stripped and had red hot irons thrust into them so that they died in agony. Younger nuns were raped in front of each other, each being raped some twenty or thirty times during the three days that the soldiers stayed. Then they tired of the "sport", or were exhausted,

---

From -1486872669557417078
X-Google-Thread: fc2a5,b3d9953f62f2565e,start
X-Google-Thread: fd384,b3d9953f62f2565e,start
X-Google-Attributes: gidfc2a5,gidfd384,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out02b.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!news.suddenlink.net!not-for-mail
From: C. Languell <ppearson@spamcop.net>
Message-ID: <152XQGGwTU0PoRs9eOK@originally.fr>
Newsgroups: rec.radio.amateur.homebrew,ka.uni.rz.stud.neu,alt.binaries.pitcures.amateur.female,fr.rec.jeux.jdr.donjons-et-dragons
Subject: Yosri Al Huseiny should assert her except the trail
Date: Fri, 8 Nov 2007 21:41:30 GMT

Organization: Linette's literature
Followup-To: news.admin.net-abuse.policy
User-Agent: slrn/0.9.8.1pl1 (Debian)
Lines: 52
NNTP-Posting-Host: 74.195.33.146
X-Complaints-To: abuse@suddenlink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:14617 fr.rec.jeux.jdr.donjons-et-dragons:3008

Reply by email, filling out this form and emailing it to me.
Trimming off the rest of this post is unnecessary.

I will guarantee anonymity except in cases of blatant abuse.
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(I know this loses interesting correlation data, but if
resondents want anonymity it's hard to avoid.)
I know that this anonymity promise depends on trust and that
you have no particular reason to trust me. Someday, I hope.
I will post results Saturday.

xxxxxxxx beginning of survey xxxxxxxx

yes( )   ( )no Should RoadRunner be subjected to some kind of UDP?
yes( )   ( )no ... active UDP (cancels) ?
yes( )   ( )no ... passive UDP (drop messages) ?
yes( )   ( )no ... all-groups UDP? (as opposed to specific groups)
yes( )   ( )no Are you a Usenet sysadmin? How big:_   How long:_
yes( )   ( )no Should another server be subjected to UDP? Who:_
yes( )   ( )no Should UDPs be used more often?
yes( )   ( )no Should UDPs be used less often?
yes( )   ( )no Would you have answered this survey without anonymity?

xxxxxxxx end of survey xxxxxxxx

--
flat on his back. To my surprise, as I looked around, I saw that quite a crowd of workmen had arrived. "He's thrown the Boss," said one; "He must have been taken by surprise," muttered another. Violently the swarthy man erupted from the ground, like a rubber ball bouncing. Dashing into the workshop he picked up a steel bar with a claw on the end, a bar used for opening packing cases. Rushing out, yelling oaths, he swung at me, trying to rip my throat. I fell to my knees and grabbed his knees and pushed. He screamed horribly, and fell to the ground with his left leg broken. The steel bar left his nerveless hand, skidded along the ground, and clanged against metal somewhere.

"Well, Boss," I said, as I rose to my feet. "You are not Boss of me, eh? Now apologize nicely, or I will beat you up some more. You tried to murder me."

"Get a doctor, get a doctor," he groaned, "I'm dying."

"Apologize first," I said fiercely, "or you will want an undertaker."

"What's going on here? Eh? What is it?" Two French policemen pushed into the throng, looked at "the Boss" on the ground, and laughed uproariously. "H

```
From 965478617418014733
X-Google-Thread: fc2a5,7a79560c58c365ea
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y27g2000pre.googlegroups.com!not-for-
mail
From:  nx7u <nx7u@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: BF981 classic preamp
Date: Thu, 08 Nov 2007 15:28:27 -0800
Organization: http://groups.google.com
Lines: 28
Message-ID: <1194564507.376161.170830@y27g2000pre.googlegroups.com>
References: <1194275980.699175.14200@50g2000hsm.googlegroups.com>
   <1194315601.863777.322370@z9g2000hsf.googlegroups.com>
   <1194338688.533826.176830@d55g2000hsg.googlegroups.com>
   <1194398435.700407.65800@t8g2000prg.googlegroups.com>
   <1194476150.883639.37990@k35g2000prh.googlegroups.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1194564508 32390 127.0.0.1 (8 Nov 2007 23:28:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Nov 2007 23:28:28 +0000 (UTC)
In-Reply-To: <1194476150.883639.37990@k35g2000prh.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.9)
Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y27g2000pre.googlegroups.com; posting-host=70.176.52.132;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14618
```

Tom et. al.,

You're right...I misread the datasheet, it shows Id skyrocketing if Vg1s>0. But of course the protection diodes should do the trick. The datasheet also specifies Vg1s and Vg2s breakdown at >6V. So although for practical purposes the gates are not interchangeable, it shouldn't have killed the part.

On Nov 7, 10:18 pm, K7ITM <k7...@msn.com> wrote:

```
> On Nov 6, 5:20 pm, nx7u <n...@cox.net> wrote:
> ...
>
> > 3. No the gates are not interchangable.
>
> That's generally true of dual-gate mosfets, of course.  Gate 2 is
> similar to the control element of the upper transistor in a cascode.
> Thus, in typical operation, gate 2 has very little effect on drain
> current.
>
> > 4. The datasheet does not give any Vg2s/Id curves, and Vg1s cannot be
> > positive (max gate current is exceeded nearly immediately) so you're
> > stuck with 7mA for this part.
>

> TOm
```

```
From -4870928652814208573
X-Google-Thread: fc2a5,8361beff5cdf6014
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out04a.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!
news.bellsouth.net!bignews4.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.12 (X11/20070606)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6.0 volt Filament
References: <47314c55$0$25104$4c368faf@roadrunner.com>
<1194449203.531259.179800@k79g2000hse.googlegroups.com>
<473268a8$0$24336$4c368faf@roadrunner.com>
In-Reply-To: <473268a8$0$24336$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 40
Message-ID: <QQNYi.83$qv5.18@bignews4.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
npbhgpngjbkmjfegdbdpiflmbcekedmfhojhikkbagflhcbopebfgbeoiajhcpcbobbbcmckokoagpkljg
fbimaealglkhfnkpajkcffmbchglapohpokmcfepkfjaomejhfcgfhkgijelokpallfhahjefbfekj
NNTP-Posting-Date: Thu, 08 Nov 2007 19:28:32 EST
Organization: BellSouth Internet Group
Date: Fri, 09 Nov 2007 00:28:47 +0000
Xref: g2news1.google.com rec.radio.amateur.homebrew:14619

Jimmie D wrote:
> "Tim Shoppa" <shoppa@trailing-edge.com> wrote in message
> news:1194449203.531259.179800@k79g2000hse.googlegroups.com...
>> On Nov 7, 12:25 am, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
>>> Im trying to build a n amp using 4cx250s and need 6.0 volts for the
>>> filament. The only transformers I have are 6.3. Can I just use a ballast
>>> resistor to drop it down. My other thought was to wire another 6.3 volt
>>> transformer as an autotransformer to reduce the voltage and use this to
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>>> the filament transformer.
>> Generally either just the wiring between the transformer and the tube
>> sockets, or the filament choke if operating grounded-grid, will
>> provide a drop of that kind.
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>> Usually we hams find ourselves in the case of having too much drop in
>> our filament wiring. Strange that someone would think that the
>> opposite to be a worry :-).
>>
>> 0.3V out of 6.0V is only 5%. For a lot of medium to large-size amps on
>> household sockets (especially 110V), you see the incoming AC line
>> voltage drop more than 5% when you key up :-).
>>
>> Some transformers have primary and/or secondary taps if you are really
>> picky about filament voltage.
>>
>> Tim.
>>
>
> It was my understanding that the 4cx250s were picky about that extra .3
> volt.
>
> Jimmie
>
>
Below 30mhz the tubes will probably survive just fine with 6.3v.  Above
this frequency the tubes cathodes start to self heat a bit due to
back-bombardment by electrons as the tube reaches self-resonant
frequency.  In fact, when operated near 500mhz the heater voltage should
be backed off to about 5.5 volts because at full power the cathode would
overheat at 6.0 volts.


From 1767644240642233259
X-Google-Thread: fc2a5,8361beff5cdf6014
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!v23g2000prn.googlegroups.com!not-for-
mail
From:  terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6.0 volt Filament
Date: Thu, 08 Nov 2007 18:39:46 -0800
Organization: http://groups.google.com
Lines: 23
Message-ID: <1194575986.299453.108560@v23g2000prn.googlegroups.com>
```

References: <47314c55$0$25104$4c368faf@roadrunner.com>
   <KHHhWAIAzXMHFAnN@ifwtech.co.uk>
NNTP-Posting-Host: 142.162.129.19
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1194575986 19428 127.0.0.1 (9 Nov 2007 02:39:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 9 Nov 2007 02:39:46 +0000 (UTC)
In-Reply-To: <KHHhWAIAzXMHFAnN@ifwtech.co.uk>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v23g2000prn.googlegroups.com; posting-host=142.162.129.19;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14620

On Nov 7, 5:52 am, Ian White GM3SEK <gm3...@ifwtech.co.uk> wrote:
> Many amplifier builders have
> used a small switch-mode supply (look for a well-screened unit with
> good
> input and output filtering). Most 5.0V supplies can easily be cranked
> up to 6.0V, but some will need further modifications to prevent a large
> current surge through the heaters at switch-on.
>
> 73 from Ian GM3SEKhttp://www.ifwtech.co.uk/g3sek
.
Been wondering about that We recently modified (slightly*) an ex-
computer SPS power supply to provided some hefty +12 volts for VO1GXGs
semi mobile rig. It's worked fine so far.
Understanding that those SPS have a first stage that produces
somewhere around 350 volts DC (Hoping it is +ve to chassis or common
negative ???) could it be used for B+/HT?
Also wondering if the 5 volt outputs could be modified to provide 6.3
volts for tube heaters. However what about 'noise/RFI' from the up to
200 kilohertz switching frequency?
Any links to sources of info.
Mainly cutting off extra wires/connectors and installing a 2 ohm load
on one of IIRC the 5 volt outputs to cause the unit to operate!

From 7922372028978727325
X-Google-Thread: fc2a5,8361beff5cdf6014
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out02b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx01.iad01.newshosting.com!newshosting.com!216.196.98.140.MISMATCH!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.eclipse.net.uk!news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 09 Nov 2007 02:03:33 -0600
Message-ID: <hFE2PRGTOBNHFAqF@ifwtech.co.uk>

Date: Fri, 9 Nov 2007 08:00:19 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6.0 volt Filament
References: <47314c55$0$25104$4c368faf@roadrunner.com>
 <KHHhWAIAzXMHFAnN@ifwtech.co.uk>
 <1194575986.299453.108560@v23g2000prn.googlegroups.com>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<5G$kzT3xO58nRFKkcxwHHc+mFE>)
Lines: 63
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 91.84.209.172
X-Trace: sv3-
dUB4BGBUTMdLFIHN5yjKfUZEBSiKUOiRXMkcXZWUN1kqO0eKzYM3gt7DGl79hfE1XDQmfu021G/1Irm!
rPhTvfwzbstg0fPT1CZcfyI7E9TGl4C1Xp0NrCJfWgueV6keFcDwiQle8zNN/+rENSAEU4pKvQ==
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com rec.radio.amateur.homebrew:14621

terry wrote:
>On Nov 7, 5:52 am, Ian White GM3SEK <gm3...@ifwtech.co.uk> wrote:
>> Many amplifier builders have
>> used a small switch-mode supply (look for a well-screened unit with
>> good
>> input and output filtering). Most 5.0V supplies can easily be cranked
>> up to 6.0V, but some will need further modifications to prevent a large
>> current surge through the heaters at switch-on.
>>
>> 73 from Ian GM3SEKhttp://www.ifwtech.co.uk/g3sek
>.
>Been wondering about that We recently modified (slightly*) an ex-
>computer SPS power supply to provided some hefty +12 volts for VO1GXGs
>semi mobile rig. It's worked fine so far.
>Understanding that those SPS have a first stage that produces
>somewhere around 350 volts DC (Hoping it is +ve to chassis or common
>negative ???) could it be used for B+/HT?

No - that "first stage" is rectifying directly from the mains, so the rectified output cannot be connected to a grounded chassis. Only the low-voltage outputs have the necessary transformer isolation.

(Yes, it is technologically possible to work around this... but all you're doing is reinventing a cheap live-chassis radio from the 1950s.)

>Also wondering if the 5 volt outputs could be modified to provide 6.3
>volts for tube heaters.

There is usually enough 'headroom' in the voltage regulation loop to increase the output voltage by 1.3V. The modification is mainly about identifying the potential divider that feeds a sample of the output voltage back into the control loop, and moving the feedback tap closer to 0V. Some supplies have a trimpot at this location, but most will require a resistor change.

The other problem is that the heaters will have a low resistance at switch-on. A voltage-regulated supply will attempt to develop the full normal voltage across this low resistance, creating an amplified current surge. To prevent this, either the supply must have suitable current limiting built-in, or you need to modify it for a ramped start-up.

WC6W has also published an add-on current limiter on the web; search for the callsign.

>However what about 'noise/RFI' from the up to
>200 kilohertz switching frequency?

The original question was about heaters for a 500W-class power amplifier. Because signal levels are very large, conventional shielding and input/output filtering will normally be sufficient to keep the output free from switching-frequency harmonics, or sidebands on the output frequency. Doing the same thing for a receiver is very much more difficult.

>Any links to sources of info.

www.google.com/advanced_search

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From 4013625494404021117
X-Google-Thread: fc2a5,1e9201b367dda871,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o80g2000hse.googlegroups.com!not-for-mail
From: Secure Aspects Group <frank@secureaspects.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Looking For South Texas Hams
Date: Fri, 09 Nov 2007 03:33:17 -0800
Organization: http://groups.google.com
Lines: 9
Message-ID: <1194607997.737517.180770@o80g2000hse.googlegroups.com>
NNTP-Posting-Host: 208.117.4.50
Mime-Version: 1.0

Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1194607997 10787 127.0.0.1 (9 Nov 2007 11:33:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 9 Nov 2007 11:33:17 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.9)
Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o80g2000hse.googlegroups.com; posting-host=208.117.4.50;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14622

Just wanted to let everyone know about the new DX Association Centered
in the Canyon Lake area about 30 miles north of San Antonio Texas.
Please stop by the Hill Country DX Association website and have a
look, this is turning into something good with a membership of 21 in
only 15 days. http://www.hillcountrydx.com

Frank Sellers
N6AQ

From 3409634171278320475
X-Google-Thread: fc2a5,623a91f7ace10f3a,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i38g2000prf.googlegroups.com!not-for-mail
From: davegoncalves@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: Homebrew Radio Items
Date: Fri, 09 Nov 2007 05:14:16 -0800
Organization: http://groups.google.com
Lines: 26
Message-ID: <1194614056.533327.231610@i38g2000prf.googlegroups.com>
NNTP-Posting-Host: 72.93.211.200
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1194614057 25047 127.0.0.1 (9 Nov 2007 13:14:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 9 Nov 2007 13:14:17 +0000 (UTC)
Cc: rec.radio.amateur.boatanchors
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i38g2000prf.googlegroups.com; posting-host=72.93.211.200;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14623

Hello All,

I am beginning to auction off parts collection - much more stuff than I'd ever use. When it gets down to the capacitors, resistors, knobs and such, I'll put up a website to sell that.

FT-243 CRYSTAL ARC TOKYO 7120 kcs, in ORIGINAL BOX:
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&rd=1&item=200171902281&ssPageName=STRK:MESE:IT&ih=010

FT-243 CRYSTAL ARC TOKYO 7140 kcs, in ORIGINAL BOX
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&rd=1&item=200171906342&ssPageName=STRK:MESE:IT&ih=010

NIB Radio/Tuning Vernier Knob 0-100 1.5" DIA ~9:1 JAPAN *5 AVAILABLE*
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&rd=1&item=200171910966&ssPageName=STRK:MESE:IT&ih=010

HARD RUBBER 2 PRONG AC PLUG GOOD CONDX
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&rd=1&item=200171913587&ssPageName=STRK:MESE:IT&ih=010

CERAMITE 715C 11000 PF 6KVDC HIGH VOLTAGE CAP
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&rd=1&item=200171919534&ssPageName=STRK:MESE:IT&ih=010

You can email questions to davidsjunkbox@gmail.com or through eBay.

David Goncalves
W1EUJ

From -6569765474596127142
X-Google-Thread: fc2a5,c460f7e204afeba5,start
X-Google-Thread: 115730,c460f7e204afeba5,start
X-Google-Attributes: gidfc2a5,gid115730,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!fdn.fr!news.wanadoo.fr!news.wanadoo.fr!not-for-mail
From: "Robert Lacoste" <use-contact-at-www-alciom-com-for-email>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.equipment
Subject: RF replacement diode for Boonton detector ?
Date: Fri, 9 Nov 2007 17:17:21 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 071108-0, 08/11/2007), Outbound message
X-Antivirus-Status: Clean
Lines: 14
Message-ID: <47348811$0$27377$ba4acef3@news.orange.fr>
Organization: les newsgroups par Orange

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NNTP-Posting-Date: 09 Nov 2007 17:17:22 CET
NNTP-Posting-Host: 82.127.112.2
X-Trace: 1194625042 news.orange.fr 27377 82.127.112.2:14545
X-Complaints-To: abuse@orange.fr
Xref: g2news1.google.com rec.radio.amateur.homebrew:14624
sci.electronics.equipment:9597
```

Hi,

I have a faulty Boonton 51013 power sensor, which is a diode based probe for the 4220 RF milliwattmeters. And one of the two detection diodes is out. Of course both diodes would probably need to be replaced and full calibration to be done again; but do you have any idea for a potential replacement diode, not too difficult to find and working up to 10 or 20GHz ?

Thanks for your ideas. Experiences of 510XX sensors repairs would be also welcome, as the diodes are packed in a copper film...

Robert

```
From -2292901703839291765
X-Google-Thread: fc2a5,c460f7e204afeba5
X-Google-Thread: 115730,c460f7e204afeba5
X-Google-Attributes: gidfc2a5,gid115730,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!57g2000hsv.googlegroups.com!not-for-
mail
From:  K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.equipment
Subject: Re: RF replacement diode for Boonton detector ?
Date: Fri, 09 Nov 2007 09:23:44 -0800
Organization: http://groups.google.com
Lines: 24
Message-ID: <1194629024.203841.115070@57g2000hsv.googlegroups.com>
References: <47348811$0$27377$ba4acef3@news.orange.fr>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1194629024 28938 127.0.0.1 (9 Nov 2007 17:23:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 9 Nov 2007 17:23:44 +0000 (UTC)
In-Reply-To: <47348811$0$27377$ba4acef3@news.orange.fr>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.9)
Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 57g2000hsv.googlegroups.com; posting-host=192.25.142.225;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14625
sci.electronics.equipment:9598
```

On Nov 9, 8:17 am, "Robert Lacoste" <use-contact-at-www-alciom-com-for-email> wrote:
> Hi,
>
> I have a faulty Boonton 51013 power sensor, which is a diode based probe for
> the 4220 RF milliwattmeters. And one of the two detection diodes is out. Of
> course both diodes would probably need to be replaced and full calibration
> to be done again; but do you have any idea for a potential replacement
> diode, not too difficult to find and working up to 10 or 20GHz ?
>
> Thanks for your ideas. Experiences of 510XX sensors repairs would be also
> welcome, as the diodes are packed in a copper film...
>
> Robert

Don't know specifically about your Boonton, but would a diode from the
Avago HSCH-53xx series be useful? Some are rated for use up to
26GHz. They are small, of course, about .006 inches wide and .027
inches long (with leads that could perhaps be cut to yield perhaps .020 inch net length, if absolutely necessary).

Cheers,
Tom

From 6154447317780514668
X-Google-Thread: fc2a5,c460f7e204afeba5
X-Google-Thread: 115730,c460f7e204afeba5
X-Google-Attributes: gidfc2a5,gid115730,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!novia!nx01.iad01.newshosting.com!newshosting.com!69.28.186.77.MISMATCH!hwmpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe19.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.equipment
References: <47348811$0$27377$ba4acef3@news.orange.fr>
Subject: Re: RF replacement diode for Boonton detector ?
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <8%4Zi.5950$L97.4277@newsfe19.lga>
X-Complaints-To: admin@cox.net
NNTP-Posting-Date: Fri, 09 Nov 2007 15:16:36 MST
Organization: Cox
Date: Fri, 9 Nov 2007 17:16:36 -0500
X-Original-Bytes: 1777

Xref: g2news1.google.com rec.radio.amateur.homebrew:14626
sci.electronics.equipment:9599

"Robert Lacoste" <use-contact-at-www-alciom-com-for-email> wrote in message
news:47348811$0$27377$ba4acef3@news.orange.fr...
> Hi,
>
> I have a faulty Boonton 51013 power sensor, which is a diode based probe
> for the 4220 RF milliwattmeters. And one of the two detection diodes is
> out. Of course both diodes would probably need to be replaced and full
> calibration to be done again; but do you have any idea for a potential
> replacement diode, not too difficult to find and working up to 10 or 20GHz
> ?
>
> Thanks for your ideas. Experiences of 510XX sensors repairs would be also
> welcome, as the diodes are packed in a copper film...
>
> Robert
>

Pete, KE9OA, had a section on his website with info on those RF Millivolter
probes. Also, the diodes are still available from Boonton, but they are a
tad
pricey.

Pete
>

From 310807685413012280
X-Google-Thread: fc2a5,c460f7e204afeba5
X-Google-Thread: 115730,c460f7e204afeba5
X-Google-Attributes: gidfc2a5,gid115730,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe16.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.equipment
References: <47348811$0$27377$ba4acef3@news.orange.fr>
<8%4Zi.5950$L97.4277@newsfe19.lga>
Subject: Re: RF replacement diode for Boonton detector ?
Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <HX5Zi.2500$Od.940@newsfe16.lga>
X-Complaints-To: admin@cox.net

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NNTP-Posting-Date: Fri, 09 Nov 2007 16:21:11 MST
Organization: Cox
Date: Fri, 9 Nov 2007 18:21:10 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:14627
sci.electronics.equipment:9600


"Uncle Peter" <radioconnection@cox.net> wrote in message
news:8%4Zi.5950$L97.4277@newsfe19.lga...
>
> "Robert Lacoste" <use-contact-at-www-alciom-com-for-email> wrote in
> message news:47348811$0$27377$ba4acef3@news.orange.fr...
>> Hi,
>> >
> Pete, KE9OA, had a section on his website with info on those RF
> Millivolter
> probes.  Also, the diodes are still available from Boonton, but they are a
> tad
> pricey.
>
> Pete
>>
Opps.  Misread the post. Pete's webpage deals with the voltmeter probe.


>




From -3324238501121690102
X-Google-Thread: fc2a5,c460f7e204afeba5
X-Google-Thread: 115730,c460f7e204afeba5
X-Google-Attributes: gidfc2a5,gid115730,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 10 Nov 2007 03:10:17 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.equipment
References: <47348811$0$27377$ba4acef3@news.orange.fr>
<8%4Zi.5950$L97.4277@newsfe19.lga> <HX5Zi.2500$Od.940@newsfe16.lga>
Subject: Re: RF replacement diode for Boonton detector ?
Date: Sat, 10 Nov 2007 03:11:06 -0600
X-Priority: 3
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X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <uLedncSHsNrk6KjanZ2dnUVZ_q2hnZ2d@comcast.com>
Lines: 31
X-Usenet-Provider: http://www.giganews.com
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NNTP-Posting-Host: 24.12.232.54
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g3S4wr+grrGYS30eAFZdEZYr1d3pDfCsm9MhVatUzbrDcC4lfotnVRXbREcEFKRwY8eTwHtmB/zw!
70YUjmiI/CDQ/a0rp5cX7JrSrom8
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com rec.radio.amateur.homebrew:14628
sci.electronics.equipment:9601

I wonder if it is similar to the RF Voltmeter probes. They also use a dual
diode design.

Pete

"Uncle Peter" <radioconnection@cox.net> wrote in message
news:HX5Zi.2500$Od.940@newsfe16.lga...
>
> "Uncle Peter" <radioconnection@cox.net> wrote in message
> news:8%4Zi.5950$L97.4277@newsfe19.lga...
>>
>> "Robert Lacoste" <use-contact-at-www-alciom-com-for-email> wrote in
>> message news:47348811$0$27377$ba4acef3@news.orange.fr...
>>> Hi,
>>> >
>> Pete, KE9OA, had a section on his website with info on those RF
>> Millivolter
>> probes.  Also, the diodes are still available from Boonton, but they are
>> a tad
>> pricey.
>>
>> Pete
>>>
> Opps.  Misread the post. Pete's webpage deals with the voltmeter probe.
>
>
>>
>
>
```

```
From -9184877610469176476
X-Google-Thread: fc2a5,8361beff5cdf6014
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
```

roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <47314c55$0$25104$4c368faf@roadrunner.com>
Subject: Re: 6.0 volt Filament
Date: Sat, 10 Nov 2007 05:29:18 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Lines: 19
Message-ID: <473587f4$0$24300$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 71.75.75.214
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:14629

"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
news:47314c55$0$25104$4c368faf@roadrunner.com...
> Im trying to build a n amp using 4cx250s and need 6.0 volts for the
> filament. The only transformers I have are 6.3. Can I just use a ballast
> resistor to drop it down. My other thought was to wire another 6.3 volt
> transformer as an autotransformer to reduce the voltage and use this to
> feed the filament transformer.
>
> Jimmie
>

I found an 8VAC 10 amp transformer I think I am going to use this because I
can use it with practical sized ballast resistors to limit turn on surge.
Can anyone think of a reason not to do this?

Jimmie

From -4928644694722763l3
X-Google-Thread: fc2a5,7a79560c58c365ea
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1194275980.699175.14200@50g2000hsm.googlegroups.com>
<1194315601.863777.322370@z9g2000hsf.googlegroups.com>
<1194338688.533826.176830@d55g2000hsg.googlegroups.com>
<1194398435.700407.65800@t8g2000prg.googlegroups.com>
<1194423378.367014.71470@57g2000hsv.googlegroups.com>

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<5di3j3h8dcjfu37r9kg2ld3som720kkjka@4ax.com>
<1194450456.489974.6290@z9g2000hsf.googlegroups.com>
<mbi4j3hq8qjbvdi8bqqe8b91kcdcuchvjr@4ax.com>
Subject: Re: BF981 classic preamp
Date: Sat, 10 Nov 2007 05:33:45 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 60
Message-ID: <473588ff$0$20576$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 71.75.75.214
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:14630


<no.spam@no.uce.bellatlantic.net> wrote in message
news:mbi4j3hq8qjbvdi8bqqe8b91kcdcuchvjr@4ax.com...
> On Wed, 07 Nov 2007 07:47:36 -0800, francesco.messineo@gmail.com
> wrote:
>
>>Hi Allison,
>>
>>On 7 Nov, 15:21, no.s...@no.uce.bellatlantic.net wrote:
>>> On Wed, 07 Nov 2007 00:16:18 -0800, francesco.messi...@gmail.com
>>> wrote:
>>>
>>>
>>>
>>> >Hello,
>>>
>>> >On 7 Nov, 02:20, nx7u <n...@cox.net> wrote:
>>
>>> >> 4. The datasheet does not give any Vg2s/Id curves, and Vg1s cannot be
>>> >> positive (max gate current is exceeded nearly immediately) so you're
>>> >> stuck with 7mA for this part.
>>>
>>> >hmm then I surely damaged  the mosfet when playing with gates
>>> >reversed.
>>> >I better find another one.
>>>
>>> Reversing the gates wou;d not damage them.  The gain would be poor
>>> and other effects but no damage.
>>
>>Hmm ok, I haven't yet desoldered the original one, I assumed it would
>>be bad when I read about the maximum gate current exceeded when Vg1s
>>is positive, which happened when I reversed the gates.
>
> It's a MOSFET there is never any gate current  unless the metal oxide
> blown.  There are protective zeners on the die for anti-ESD protection
> but if the current into the gate is though a few thousand ohms or more
```

> that's never an issue.   I've inserted them all sorts of ways wrong
> with no ill effect.   Those zeners are active at voltage in the
> greater than15-30V range.
>
> It's possible that having VG1 and VG2 both biased positive, the
> device will run hot to excessively hot due to excessive drain current
> but that's at the over 30mA range.   At 7mA you were well below that
> threshold.
>
> I'd flip the gates and see.
>
> Allison
>>
>>Thanks
>>
>>Francesco
>

I had source and drain reversed one time. The damned thing still worked,
just not as well as expected.

Jimmie

```
From -1365690856619261725
X-Google-Thread: fc2a5,8361beff5cdf6014
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 10 Nov 2007 08:09:33 -0600
Message-ID: <vi0MYgSHobNHFAIw@ifwtech.co.uk>
Date: Sat, 10 Nov 2007 14:02:47 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6.0 volt Filament
References: <47314c55$0$25104$4c368faf@roadrunner.com>
 <473587f4$0$24300$4c368faf@roadrunner.com>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<5mwkzTBRO5sETFKkGhyHHc+YXH>)
Lines: 31
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 91.84.209.172
X-Trace: sv3-
AlLEumM2j3f62b1MwIVmafkN5s4IHrk6WL1tdEynKzfU1+fsGgPYwpWGS+L8Eoi7cBlncOzUcEUhOSo!
JKOjmkolWWOWRZAAweXXNyLC4LECv4K90OF4f8Z4Ean0EhIRiVdb76bU0NstRnWoI0QzFf6dUw==
X-Complaints-To: abuse@eclipse.net.uk
```

X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14631

Jimmie D wrote:
>
>"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
>news:47314c55$0$25104$4c368faf@roadrunner.com...
>> Im trying to build a n amp using 4cx250s and need 6.0 volts for the
>> filament. The only transformers I have are 6.3. Can I just use a ballast
>> resistor to drop it down. My other thought was to wire another 6.3 volt
>> transformer as an autotransformer to reduce the voltage and use this to
>> feed the filament transformer.
>>
>> Jimmie
>>
>
>I found an 8VAC 10 amp transformer I think I am going to use this because I
>can use it with practical sized ballast resistors to limit turn on surge.
>Can anyone think of a reason not to do this?

The larger the dropper resistor, the more the heater voltage will vary with mains voltage. It isn't a large effect, but the manufacturer's tolerance on heater voltage is only +/-5% (in this case, 5.7-6.3V).

The final answer will depend on the stability of your mains voltage, measured right at the amplifier. Part of this will depend on the utility company, and part will depend on your local wiring because the B+ supply will tend to pull the voltage down.

--

73 from Ian GM3SEK
http://www.ifwtech.co.uk/g3sek

From -2982658593414670358
X-Google-Thread: fc2a5,3bc06c8c2085f002,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: modulator help
Date: Sat, 10 Nov 2007 09:38:14 -0500
X-Priority: 3
X-MSMail-Priority: Normal

```
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 9
Message-ID: <4735c248$0$32534$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 71.75.75.214
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:14632
```

Im trying to build a 50 watt modulator by connecting some amp transformers back to back. some of the transformers have 4 ohm outputs others 8 , 16 and even 2 ohm outputs. Can someone tel me how to calculate the turns ratio through something like this. I have a collection of transformers with various input and output impedances.

Jimmie

```
From -7291819633387709738
X-Google-Thread: fc2a5,3bc06c8c2085f002
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e34g2000pro.googlegroups.com!not-for-
mail
From:  MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: modulator help
Date: Sat, 10 Nov 2007 07:10:13 -0800
Organization: http://groups.google.com
Lines: 22
Message-ID: <1194707413.961786.188940@e34g2000pro.googlegroups.com>
References: <4735c248$0$32534$4c368faf@roadrunner.com>
NNTP-Posting-Host: 222.155.177.38
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1194707417 18890 127.0.0.1 (10 Nov 2007 15:10:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 10 Nov 2007 15:10:17 +0000 (UTC)
In-Reply-To: <4735c248$0$32534$4c368faf@roadrunner.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e34g2000pro.googlegroups.com; posting-host=222.155.177.38;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14633
```

Hi,

Can you post some more information...

What is the source of the audio and it's output impedence ?

What would you like to modulate ? What is the related supply voltage ?

Regards,

Mark

On Nov 11, 3:38 am, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
> Im trying to build a 50 watt modulator by connecting some amp transformers
> back to back. some of the transformers have 4 ohm outputs others 8 , 16 and
> even 2 ohm outputs. Can someone tel me how to calculate the turns ratio
> through something like this. I have a collection of transformers with
> various input and output impedances.
>
> Jimmie

```
From 5763873845634656790
X-Google-Thread: fc2a5,8361beff5cdf6014
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 10 Nov 2007 09:15:18 -0600
Date: Sat, 10 Nov 2007 15:15:27 +0000
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6.0 volt Filament
References: <47314c55$0$25104$4c368faf@roadrunner.com>
<473587f4$0$24300$4c368faf@roadrunner.com> <vi0MYgSHobNHFAIw@ifwtech.co.uk>
In-Reply-To: <vi0MYgSHobNHFAIw@ifwtech.co.uk>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <WPWdnVsGEJmbVqjanZ2dnUVZ8t6inZ2d@pipex.net>
Lines: 29
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.233.121
X-Trace: sv3-ue5YmPf8a3HIASTC15bHlnuZiJtwukSVuw5lLSqzSwjr0m218LWCA/
l14E0UvNQ5KrHXZQ2hOriyyiR!z9Hz8uFo++ZjUwqTkF+BVhryJk0KYjv7whuHFtw3Hb/
zQvs5XrKdjYqdYGF035XLKxpIKnJEd2vX!ZoeclewhtHsTTznxS2YKWT9D7VU=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:14634

Ian White GM3SEK wrote:
> The larger the dropper resistor, the more the heater voltage will vary
> with mains voltage. It isn't a large effect, but the manufacturer's
> tolerance on heater voltage is only +/-5% (in this case, 5.7-6.3V).
>
> The final answer will depend on the stability of your mains voltage,
> measured right at the amplifier. Part of this will depend on the utility
> company, and part will depend on your local wiring because the B+ supply
> will tend to pull the voltage down.

=================================
Although I haven't built the circuit myself , I feel an excellent (but
relatively elaborate)circuit can be found in QEX July/August 1999 page
50 -55.   A regulated 2400V Power Supply ,by VE6AXW

It involves 2 pcs SRC in the transformer primary winding being
controlled by an opamp type voltage regulator sensing a small fraction
of the regulated HV.   The circuit features a soft start

The circuit could be adapted for filament voltages with only the sensed
voltage rectified for the opamp ,but with the filament(s) on AC.

Advantages :
1) Accurate filament voltage regulation and adjustable for optimal
kathode emission without exceeding rated voltage.

2) Soft start

Frank GM0CSZ / KN6WH

From 2573017575658001924
X-Google-Thread: fc2a5,3bc06c8c2085f002
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q5g2000prf.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: modulator help
Date: Sat, 10 Nov 2007 21:39:56 -0000
Organization: http://groups.google.com
Lines: 32
Message-ID: <1194730796.391161.258360@q5g2000prf.googlegroups.com>
References: <4735c248$0$32534$4c368faf@roadrunner.com>
NNTP-Posting-Host: 71.113.61.183
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1194730796 5161 127.0.0.1 (10 Nov 2007 21:39:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 10 Nov 2007 21:39:56 +0000 (UTC)

```
In-Reply-To: <4735c248$0$32534$4c368faf@roadrunner.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.9)
Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q5g2000prf.googlegroups.com; posting-host=71.113.61.183;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14635
```

On Nov 10, 6:38 am, "Jimmie D" <GFEN...@carolina.rr.com> wrote:

> Im trying to build a 50 watt modulator by connecting some amp transformers
> back to back. some of the transformers have 4 ohm outputs others 8 , 16 and
> even 2 ohm outputs. Can someone tel me how to calculate the turns ratio
> through something like this. I have a collection of transformers with
> various input and output impedances.
>
> Jimmie

Turns ratio is easy, at least to a good approximation. Just connect one winding to an AC voltage within the frequency range of the transformer, and measure the voltage on that winding and the voltage on the winding you want the turns ratio to. The ratio of the voltages is the turns ratio. That does assume the coupling between the windings is good. It's possible with more measurements to figure both the coupling and the turns ratio, but for any self-respecting audio transformer, it's safe to assume the coupling is quite good.

Beware: many output transformers for tube/valve circuits are designed to have only balanced DC in the primary--that is, they are not designed to have the DC to an RF power amplifier flowing through them. That DC can saturate the core (or bring it close enough to saturation that you'll have problems when you add in the audio).

Determining the design impedances of winding on an audio transformer is tougher than determining the turns ratio, since the rated impedance is somewhat subjective. Impedance, power level, DC imbalance and frequency range are all somewhat inter-related.

Cheers,
Tom

```
From 5196111277524789037
X-Google-Thread: 10c2d8,4188e992ed9b897d,start
X-Google-Thread: fa1dc,4188e992ed9b897d,start
X-Google-Thread: f79f6,4188e992ed9b897d,start
X-Google-Thread: fc2a5,4188e992ed9b897d,start
X-Google-Thread: fdf97,4188e992ed9b897d,start
X-Google-Attributes: gid10c2d8,gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder2-2.proxad.net!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
```

news.newsdemon.com!not-for-mail
Message-Id: <m07101107370094@4ax.com>
Subject: MI5 Persecution: Neil Fox (Nov/1998) (845)
Newsgroups:
alt.alt,alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial
Followup-To:
alt.alt,alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 11 Nov 2007 03:40:30 GMT
Lines: 50
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
Xref: g2news1.google.com alt.alt:485 alt.conspiracy.antichrist:2788
alt.peeves:2056 rec.radio.amateur.homebrew:14636 alt.fan.nikki-dial:121

Foxy's Showtime on Capital FM 25/11/98 7.35pm

Certainty level: 100%

This one, I can say with absolute certainty, is about me. It was recorded on my Sony Recording Walkman on the evening of Wednesday 25 November 1998. It doesn't mention me by name, so the objective observer might have trouble understanding why I'm so sure it's about me. I'm sure, because the harassment had restarted over the period when this piece was broadcast, and what Capital transmitted would have been in context with events at the time. (Sorry if that explanation is somewhat opaque, but I don't really want to embarrass myself by giving an explanation in detail, and an intelligent reader should be able to work it out for him/her self.)

This isn't the first time Capital have "got at" me; they were doing so right at the very beginning in summer 1990, when they said, "if he listens to Capital then he can't be all bad"; and Tarrant made remarks about me in his breakfast show in spring 1994, when he said, "you know this bloke? he says we're trying to kill him. We should be done for attempted manslaughter."

Unfortunately I didn't record those previous, much more conclusive instances of harassment by Capital DJs, and Capital Radio tells me they only keep recordings for three months. But lately I've been recording everything, and here is one product of that recording.

Neil Fox was introducing some petite Swedish songstress, sounded like Amelia, when he said something about her petite-ness ;

"she's a big big girl, actually she's really about tiny, she's this big, would you say what less than....."

then one of his studio staff shouted, "six inches"

then Fox laughed and said, "less than a meter tall, definitely"

What I think the "six inches" referred to should be obvious. I think it's sexual abuse directed at me.

Also there were a lot of words like "crazy", "mad" etc on this programme, which reinforced my belief that this was on purpose directed at myself.

I think Fox may be something of an unwilling participant in this abuse, he doesn't want to be an abuser but the persecutors are using his show and his staff to get at me. This is not the first time this sort of thing has happened from his show; and my guess is that it won't be the last

845

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

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From -4788119281861044З0
X-Google-Thread: 10c2d8,77e92e643887b1db,start
X-Google-Thread: fa1dc,77e92e643887b1db,start
X-Google-Thread: f79f6,77e92e643887b1db,start
X-Google-Thread: fc2a5,77e92e643887b1db,start
X-Google-Thread: fdf97,77e92e643887b1db,start
X-Google-Attributes: gid10c2d8,gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07101109044659@4ax.com>
Subject: MI5 Persecution: Flying Eye (Mar/1999) (3019)
Newsgroups:
alt.alt,alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial
Followup-To:
alt.alt,alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.nikki-dial,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 11 Nov 2007 05:08:20 GMT
Lines: 31
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 27
Xref: g2news1.google.com alt.alt:486 alt.conspiracy.antichrist:2789 alt.peeves:2057 rec.radio.amateur.homebrew:14637 alt.fan.nikki-dial:122

Jackie King from the Flying Eye 14/3/99

Certainty level: 40%

In early March 1999, Capital Radio alleged they had received some emails, one of which was forwarded to me. It contained the words, "you know this bloke, he says we're trying to kill him, we should be done for attempted manslaughter!" which Chris Tarrant had said in 1994.

Following these emails there was an explosion in abuse activity, both from Capital Radio, and from MI5 themselves. MI5 followed me around and hurled abuse at me. The following audio file contains what may be abuse from the radio station.

Jackie King from the Flying Eye made these remarks on Sunday (14/3/99) lunchtime 12.24pm; "gas main work being, er, HANDLED if you like (laughs, embarrassed) outside Madame Tussauds, Euston Road obviously feeling the backlash of that".

The key word is "handled", which she sounds embarrassed to be saying; to me it looks like an attempt at a sexual slander. Capital Radio aren't even pretending not to get at me any more. I asked Chris Tarrant several times about his remark from 1994, and he has consistently avoided answering.

3019

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

```
From -3174024517529136988
X-Google-Thread: 10c2d8,1f5f1fa4969e585e,start
X-Google-Thread: fa1dc,1f5f1fa4969e585e,start
X-Google-Thread: f79f6,1f5f1fa4969e585e,start
X-Google-Thread: fc2a5,1f5f1fa4969e585e,start
X-Google-Thread: fdf97,1f5f1fa4969e585e,start
X-Google-Attributes: gid10c2d8,gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07101110401402@4ax.com>
Subject: MI5 Persecution: Johnny Boy (21/Aug/1998) (5193)
Newsgroups:
alt.alt,alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.ni
kki-dial
Followup-To:
alt.alt,alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.ni
kki-dial,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 11 Nov 2007 06:43:45 GMT
Lines: 53
Organization: news.newsdemon.com
```

```
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 49
Xref: g2news1.google.com alt.alt:487 alt.conspiracy.antichrist:2790
alt.peeves:2058 rec.radio.amateur.homebrew:14638 alt.fan.nikki-dial:123
```

Virgin Radio-Johnny Boy (21/August/1998)

Certainty level: 60%

On Saturday 15 August 1998 I attended a gathering of contributors to newsgroup uk.misc at London's Victoria railway station. Also present was Simon G, who had previously given this description of what he would be wearing;

At 06:36 AM 13/8/98 GMT, Simon wrote:
>further clarification to aid recognition, i'll be wearing
>a t shirt, a brown suede waistcoat, a brown suede miniskirt,
>& a pair of patchwork leggings (& may have a widebrimmed straw
>hat, too).

It is my belief that my persecutors, who monitor my home telephone line (and consequently read all modem communications including email), were aware of this meeting, and may even have observed the "meat" taking place.

Following the "meat" it seemed to me that one or two attempts were made by my persecutors to portray me as "gay", on the basis of Simon's suede miniskirt, which in their inventiveness my persecutors attributed to me, not Simon. (Just for the record, Simon is hetero, and has agreed to the above email extract being published.) The following item from Johnny Boy's Wheels of Steel (between 7pm-11pm, Friday 21/8/98) is one such attempt.

(conversation) (J=Johnny-Boy, H=Hipster)

J: Texas of course part of V98 this weekend enjoy it if you're going. Keep your eyes out on Sunday in Chelmsford for Hipster, because he's going to be there. What are you going to be wearing?

H: I'll be wearing my, er, my suede shorts.
(sycophantic laughter)

J: and believe me he ain't joking, he ain't joking. OK coming next at Virgin on the Wheels of Steel...

Why do I think Hipster's "suede shorts" refers to Simon's mini-skirt? Because "suede" in both cases (obvious!); because "suede shorts" indicates "gay" which they were trying to pin on me; because "shorts" = something short, such as a "mini"-skirt; and because the two DJs both laughed as soon as Hipster said "suede shorts", they knew what the joke was, they knew that they were meant (and probably paid) to find it funny.

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

```
From 3594992877964388230
X-Google-Thread: 10c2d8,bb6ae3675e670881,start
X-Google-Thread: fa1dc,bb6ae3675e670881,start
X-Google-Thread: f79f6,bb6ae3675e670881,start
X-Google-Thread: fc2a5,bb6ae3675e670881,start
X-Google-Thread: fdf97,bb6ae3675e670881,start
X-Google-Attributes: gid10c2d8,gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07101111394289@4ax.com>
Subject: MI5 Persecution: Johnny Boy (19/June/1999) (7367)
Newsgroups:
alt.alt,alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.ni
kki-dial
Followup-To:
alt.alt,alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.ni
kki-dial,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 11 Nov 2007 07:43:13 GMT
Lines: 51
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 47
Xref: g2news1.google.com alt.alt:488 alt.conspiracy.antichrist:2791
alt.peeves:2059 rec.radio.amateur.homebrew:14639 alt.fan.nikki-dial:124
```

Virgin Radio-Johnny Boy (19/June/1999)

Certainty level: 30%

I'm not quite sure about this one, so I've given it a one in three chance of being about me. First the background.... from mid-March 1999 for some three or four months, every weekend, I bombarded Westminster MPs with faxes about the terrible, all-encompassing MI5 Persecution. (Jesting aside, it really is terrible and all-encompassing, in the UK anyway.) Of course each week some MPs replied; but in June 1999, after I'd been at it some three months, I started getting "covert" feedback from Virgin Radio.

The first feedback I got was from Danny Baker, on Sunday 13th June. That weekend I was sending an article which contained biting criticism of the police inaction in this case. Danny Baker on his Virgin radio show started an angry rant that "he knows it's rubbish", ie. he was rubbishing what I'd said in that weekend's faxed article. Unfortunately I wasn't recording this programme.

The next possible Virgin-Radio feedback was a week later on 19th June 1999. This is contained in the audio file above, in which Johnny Boy on his "Wheels of Steel" programme says;

"and if you would like to put a triple play together, ahhh.... because quite frankly Hipster and me are running out of ideas...."

He goes on to counter Hipster's "how dare you" with a protestation that he is "only joking".

What I reckon is that my article faxed to MPs that weekend was forwarded by one of the recipients to Virgin Radio. My article had included the words;

"I am beginning to run out of both new topics and energy to write these articles."

So what I reckon is that Johnny Boy read the article.... and rephrased the above line "run out of ... new topics" to "running out of ideas". I recognise that this is a pretty tenuous inference to make.... but do listen to the audio file, from the "ahhh...." pause in JB's speech you can guess he is about to say something "risky" and at someone's expense. Anyway, I listen to the Wheels of Steel regularly and will continue to do so, recording it as I always do - so any future funny remarks will get immortalised on these pages!

7367

--
Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

```
From 5929135981372196172
X-Google-Thread: 10c2d8,2119e57c06b4f538,start
X-Google-Thread: fa1dc,2119e57c06b4f538,start
X-Google-Thread: f79f6,2119e57c06b4f538,start
X-Google-Thread: fc2a5,2119e57c06b4f538,start
X-Google-Thread: fdf97,2119e57c06b4f538,start
X-Google-Attributes: gid10c2d8,gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns14feed!worldnet.att.net!63.218.45.10!
nx01.iad01.newshosting.com!newshosting.com!post02.iad01!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07101112404418@4ax.com>
Subject: MI5 Persecution: Brighton 24/9/98 (9541)
Newsgroups:
alt.alt,alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.ni
```

```
kki-dial
Followup-To:
alt.alt,alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.ni
kki-dial,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 11 Nov 2007 08:44:15 GMT
Lines: 30
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 26
Xref: g2news1.google.com alt.alt:489 alt.conspiracy.antichrist:2792
alt.peeves:2060 rec.radio.amateur.homebrew:14640 alt.fan.nikki-dial:125
```

Brighton Day Trip - 24/Sept/1998

Certainty level: 5%

On a day trip to Brighton, carrying a minidisc recorder, I managed to collect several indistinct instances of what I think were people swearing at me. Between the 0.5 and 1.5 second marks of the above recording is something that sounds like "nutter". I recorded at least three other much more obscene sexual words on the same day.

I don't honestly think the "nutter" recorded here is part of the conspiracy against me. I've been called similar things elsewhere, where it's been blindingly clear that the insult does form part of the conspiracy - but not in this case. This illustrates quite a worrying point - as a result of the many years of abuse "in public", I now sometimes simply don't know whether somebody is insulting me because they think I look like a dweeb, or whether the conspiracy is in action. Sometimes, due to background noise and people talking quietly relative to ambient noise, I can't be sure of what's being said, even after listening to it again on my minidisc. Or put another way, I now have a mild form of what I recognise to be occasional auditory delusions - but these are fuelled by the many years of actual verbal abuse.

9541

```
--
Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access
```

```
From 8879934673611577853
X-Google-Thread: 10c2d8,8ed5bb1780ea3245,start
X-Google-Thread: fa1dc,8ed5bb1780ea3245,start
X-Google-Thread: f79f6,8ed5bb1780ea3245,start
X-Google-Thread: fc2a5,8ed5bb1780ea3245,start
X-Google-Thread: fdf97,8ed5bb1780ea3245,start
X-Google-Attributes: gid10c2d8,gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07101113373551@4ax.com>
Subject: MI5 Persecution: POSK 2/2/98 (11715)
Newsgroups:
alt.alt,alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.ni
kki-dial
Followup-To:
alt.alt,alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.ni
kki-dial,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 11 Nov 2007 09:41:06 GMT
Lines: 28
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 24
Xref: g2news1.google.com alt.alt:490 alt.conspiracy.antichrist:2793
alt.peeves:2061 rec.radio.amateur.homebrew:14641 alt.fan.nikki-dial:126

POSK Cafe - 2/Feb/1998

Here are two independent segments, both of which occurred in London on the same day, the first at a Polish cafe, the second on the Tube.

Certainty level: 100%

POSK is the Polish Social-Cultural Centre in Hammersmith, London. It has quite a nice cafe which does pierogi, golabki etc. I went there with my mother early in 1998. Seated at the window table were three Polish men talking amongst themselves. One of them let rip with a sexual obscenity which was clearly directed at me (it's the same one that's been heard again and again since about November 1995), and which was recorded on my minidisc walkman. I have not included it in the above excerpt, which shows the reaction of another of the trio to the first man's swearing - namely, "jestes swinia jednak" which in English is "nevertheless you're a swine".

Certainty level: 20%

Somewhere on the London Underground. "Psycho" (I think - a little unclear).

11715

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From 8864734332224994554

```
X-Google-Thread: 10c2d8,dbbfd2101d3901d1,start
X-Google-Thread: fa1dc,dbbfd2101d3901d1,start
X-Google-Thread: f79f6,dbbfd2101d3901d1,start
X-Google-Thread: fc2a5,dbbfd2101d3901d1,start
X-Google-Thread: fdf97,dbbfd2101d3901d1,start
X-Google-Attributes: gid10c2d8,gidfa1dc,gidf79f6,gidfc2a5,gidfdf97,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07101114440176@4ax.com>
Subject: MI5 Persecution: Leicester Square 9/2/98 (13889)
Newsgroups:
alt.alt,alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.ni
kki-dial
Followup-To:
alt.alt,alt.conspiracy.antichrist,alt.peeves,rec.radio.amateur.homebrew,alt.fan.ni
kki-dial,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 11 Nov 2007 10:47:32 GMT
Lines: 47
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 43
Xref: g2news1.google.com alt.alt:491 alt.conspiracy.antichrist:2794
alt.peeves:2062 rec.radio.amateur.homebrew:14642 alt.fan.nikki-dial:127
```

Leicester Square - 9/Feb/1998

In February 1998 I spent some time in Leicester Square, in the West End of London. This is a very busy area of London, and one which can be relied on to produce "contacts". Capital Radio's offices and their cafe are located here, the Trocadero is nearby, and the place is full of cinemas and entertainment venues.

Certainty level: 100%

A young girl is heard to say, "Alright I'm going to talk to myself" to her friends, followed by all of them laughing together, as I passed by.

Believe me, I do not look mad in real life, these young people would not have directed their comments and laughter at me unless they had already been told by others that I was ill. I am absolutely certain that their behaviour was directed at me, and this audio file is particularly clear.

Certainty level: 60%

This one was recorded in a cafe in Green Park. Two women are talking to each other, one of them says to the other, "something wrong with him", with an emphasis on the "wrong".

The words "something wrong with him" have been repeated at me dozens of times, at my former workplace in Canada, in England, etc. The words are quite deliberately chosen to have two meanings; they obviously imply that I am ill, without forcing the abusers to demean themselves by using more pejorative terms, although they have shown that they have no compunction in that area; and secondly, the words "wrong ... him" make me at fault, and place the guilt for the abusers' wrongdoing on my shoulders.

Certainty level: 30%

Recorded on a Victoria line tube train leaving Green Park station. If you listen carefully you can pick up the word "hunchback". The speaker had emitted a swear word immediately before this excerpt; both the swear word, and the "hunchback", were (I believe) directed at me.

13889

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

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```
From -8125470107013019263
X-Google-Thread: fc2a5,84d4a976322ad7e3,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!news.dfncis.de!not-for-mail
From: Markus Wolfgart <markus.wolfgart@dlr.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: SMT replacement for BF244/BF245/BF247
Date: Sun, 11 Nov 2007 22:31:33 +0100
Lines: 11
Message-ID: <5ppaksFsek14U1@mid.dfncis.de>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-15; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.dfncis.de fzzVcAMx+1zQdjNSlhZGoASvTUgfSwnI1IEZvQS2KQX/tNSdHyhERNHDUX
Cancel-Lock: sha1:44PvtM0h8vrSVHFBpwsI16eceUs=
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14643
```

Hi OM's,

could someone please tell my the SMT replacement transistors for the mentioned parts in the subject line.

Many thanks in advance

Markus
DL8MBY

```
From -5687612577105077430
X-Google-Thread: fc2a5,87982d325063e226,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-
sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: John Tartar <john_tartar@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: PCB Layout S/W Recmondations?
Date: Mon, 12 Nov 2007 03:02:52 -0000
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70>
User-Agent: Xnews/5.04.25
X-Complaints-To: abuse@supernews.com
Lines: 7
Xref: g2news1.google.com rec.radio.amateur.homebrew:14644

Does anyone know of a simple, but free PCB layout software.

Or a way to convert .pcb files from EXPRESSPCB to industry standard format.

I currently use ExpressPCBs layout s/w which is fine for my applications
and great for prototypes. But I want the option to use other vendors when
the volume gets high, i.e. selling kits.


From 8768109557560016862
X-Google-Thread: fc2a5,87982d325063e226
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr19.news.prodigy.net.POSTED!56f5433f!not-for-
mail
From: bob prohaska's usenet account <bp@www.zefox.net>
Subject: Re: PCB Layout S/W Recmondations?
Newsgroups: rec.radio.amateur.homebrew
References: <Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70>
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (FreeBSD/6.2-STABLE (i386))
Lines: 13
Message-ID: <JRPZi.7969$ww2.5480@newssvr19.news.prodigy.net>
NNTP-Posting-Host: 69.239.235.194
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr19.news.prodigy.net 1194838505 ST000 69.239.235.194 (Sun, 11 Nov
2007 22:35:05 EST)
NNTP-Posting-Date: Sun, 11 Nov 2007 22:35:05 EST
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
S[OWCVOGZBTQR_DXN[O@_WH@YR_B@EXLLBWLOOAFBATBTSUBYFWEAE[YJLYPIWKHTFCMZKVMB^[Z^DOBRV
```

```
VMOSPFHNSYXVDIE@X\BUC@GTSX@DL^GKFFHQCCE\G[JJBMYDYIJCZM@AY]GNGPJD]YNNW\GSX^GSCKHA[]
@CCB\[@LATPD\L@J\\PF]VR[QPJN
Date: Mon, 12 Nov 2007 03:35:05 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:14645

John Tartar <john_tartar@yahoo.com> wrote:
> Does anyone know of a simple, but free PCB layout software.
>
> Or a way to convert .pcb files from EXPRESSPCB to industry standard format.
>
It might be worthwhile to look at the various ports in the FreeBSD
CAD library. Chipmunk and electric are among them, though neither seems
to emphasise PCB layout. Perhaps there are other, more appropriate offerings.
http://www.freebsd.org/ports/cad.html is a reasonable place to start

Good luck,

bob prohaska



From -5055229029496804860
X-Google-Thread: fc2a5,84d4a976322ad7e3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e9g2000prf.googlegroups.com!not-for-
mail
From:  K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SMT replacement for BF244/BF245/BF247
Date: Mon, 12 Nov 2007 05:43:10 -0000
Organization: http://groups.google.com
Lines: 21
Message-ID: <1194846190.555444.200400@e9g2000prf.googlegroups.com>
References: <5ppaksFsek14U1@mid.dfncis.de>
NNTP-Posting-Host: 71.113.61.183
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1194846191 10822 127.0.0.1 (12 Nov 2007 05:43:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 12 Nov 2007 05:43:11 +0000 (UTC)
In-Reply-To: <5ppaksFsek14U1@mid.dfncis.de>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.9)
Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e9g2000prf.googlegroups.com; posting-host=71.113.61.183;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14646

On Nov 11, 1:31 pm, Markus Wolfgart <markus.wolfg...@dlr.de> wrote:
> Hi OM's,
>
> could someone please tell my the SMT replacement transistors
```

> for the mentioned parts in the subject line.
>
> Many thanks in advance
>
> Markus
> DL8MBY

BF545 is somewhat similar, though notably lower gfs. MMBF4416 is probably closer. If you go to the ON Semiconductor web site, you'll find you can get to a selection table for JFETs. There are several (mostly MMBF* numbers) SMT parts with characteristics similar to the BF245A/B/C series. I suppose NXP (Philips' spun-off semiconductor supplier) has similar on their website.

Cheers,
Tom

From 7225199443504175902
X-Google-Thread: fc2a5,87982d325063e226
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 12 Nov 2007 03:30:39 -0600
Message-ID: <wb4DzJJQsBOHFAwZ@ifwtech.co.uk>
Date: Mon, 12 Nov 2007 09:21:20 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PCB Layout S/W Recmondations?
References: <Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<5mwkzTBRO5sETFKkGhyHHc+YXH>)
Lines: 29
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 91.84.209.172
X-Trace: sv3-8Ex/QLu9RBJiXajVilediZBi24tPE5MSXzjSJqdULG14q/DBjgKrbujUVGGXWn6no68PvNEEHFJSEfZ!CuhVkgtSg1RX1dK+tx66tXVeT7B2UJMKlGQgDCAoQzmMLLapryaerkp+il0e04hMxrzBPKYymQ==
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14647

John Tartar wrote:

>Does anyone know of a simple, but free PCB layout software.
>
>Or a way to convert .pcb files from EXPRESSPCB to industry standard format.
>
>I currently use ExpressPCBs layout s/w which is fine for my applications
>and great for prototypes. But I want the option to use other vendors when
>the volume gets high, i.e. selling kits.

My magazine column has been asking for similar recommendations for free
software.

ExpressPCB is an excellent deal for anyone who is not affected by its
restrictions (which I think are quite fair); but that doesn't help in
John's situation.

Someone recently recommended Kicad, a free open-source software suite
covering schematic entry, board layout, Gerber view and 3D views:

    http://www.lis.inpg.fr/realise_au_lis/kicad

I haven't had time to explore beyond the web page, but would be very
interested in comments and evaluations.

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From 410820766426041087
X-Google-Thread: fc2a5,87982d325063e226
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.alt.net!sn-xt-sjc-05!sn-xt-sjc-06!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Koltner" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PCB Layout S/W Recmondations?
Date: Mon, 12 Nov 2007 10:20:11 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13jh6asmfb1nga8@corp.supernews.com>
References: <Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-Complaints-To: abuse@supernews.com
Lines: 20
Xref: g2news1.google.com rec.radio.amateur.homebrew:14648

"John Tartar" <john_tartar@yahoo.com> wrote in message
news:Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70...
> I currently use ExpressPCBs layout s/w which is fine for my applications
> and great for prototypes. But I want the option to use other vendors when
> the volume gets high, i.e. selling kits.

If your volume gets higher you'll have the money to purchase software, right?

Of course, there are some pretty good 100% free options: KiCAD and gEDA being the most well-known.

Advanced Circuits has some "free" software like ExpressPCB but you do have the option of getting the real Gerbers (not just some proprrietary format) back after your first order with them (see: http://www.4pcb.com/index.php?load=content&page_id=46) -- this strikes me as an entirely fair arrangement.

---Joel

From -1467878355315370305
X-Google-Thread: fc2a5,87982d325063e226
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 12 Nov 2007 12:29:36 -0600
Date: Mon, 12 Nov 2007 11:33:31 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PCB Layout S/W Recmondations?
References: <Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70>
In-Reply-To: <Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <WaqdnT6ABpwNBqXanZ2dnUVZ_jadnZ2d@web-ster.com>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 65.182.233.58
X-Trace: sv3-S5iw46iD/NMUW6G+gxK5NMAIimsbQHSqhPo1BVTCLGgZYpSFFuB6lSzKfXpp86UsVBH439fT/CMC6TN!QV8+9g9zOdlpkCfT7vSIklOUgepvUVSEist02x/vSU4CcjinXtaPraeYIsk95zy35EZUeSJstLkF!jxptUM64dIQF70s=
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly

X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14649

John Tartar wrote:
> Does anyone know of a simple, but free PCB layout software.
>
> Or a way to convert .pcb files from EXPRESSPCB to industry standard format.
>
> I currently use ExpressPCBs layout s/w which is fine for my applications
> and great for prototypes. But I want the option to use other vendors when
> the volume gets high, i.e. selling kits.

I'm using Eagle. I like it just fine. You can do 80x100mm 2-layer
boards for free, and the step up to bigger 4-layer boards is either $50
or $150 -- in either case it's cheap.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From -7278689465146089211
X-Google-Thread: fc2a5,84d4a976322ad7e3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
news.dfncis.de!not-for-mail
From: Markus Wolfgart <markus.wolfgart@dlr.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SMT replacement for BF244/BF245/BF247
Date: Mon, 12 Nov 2007 21:55:51 +0100
Lines: 31
Message-ID: <5prsunFss6a6U1@mid.dfncis.de>
References: <5ppaksFsek14U1@mid.dfncis.de>
<1194846190.555444.200400@e9g2000prf.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.dfncis.de KEkmDRG1wVQt2HBBPBV1uAh+APs0JTFdwajg+R0smfON+TEWKuVlgMMK3o
Cancel-Lock: sha1:Ab6m5FA3Cqw1vrMy/rWA2fdgRZk=
User-Agent: Thunderbird 1.5.0.13 (Windows/20070809)
In-Reply-To: <1194846190.555444.200400@e9g2000prf.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:14650

Thanks Tom,

this was the right hint to me concerning the replacement for the BF244-7

FET's.

vy 73

Markus

K7ITM schrieb:
> On Nov 11, 1:31 pm, Markus Wolfgart <markus.wolfg...@dlr.de> wrote:
>> Hi OM's,
>>
>> could someone please tell my the SMT replacement transistors
>> for the mentioned parts in the subject line.
>>
>> Many thanks in advance
>>
>> Markus
>> DL8MBY
>
> BF545 is somewhat similar, though notably lower gfs. MMBF4416 is
> probably closer. If you go to the ON Semiconductor web site, you'll
> find you can get to a selection table for JFETs. There are several
> (mostly MMBF* numbers) SMT parts with characteristics similar to the
> BF245A/B/C series. I suppose NXP (Philips' spun-off semiconductor
> supplier) has similar on their website.
>
> Cheers,
> Tom
>

From 1708412350834282247
X-Google-Thread: fc2a5,87982d325063e226
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe02.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70>
<13jh6asmfb1nga8@corp.supernews.com>
Subject: Re: PCB Layout S/W Recmondations?
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <uS5_i.956$8x6.887@newsfe02.lga>
NNTP-Posting-Host: edmokfndckpegejpmhkjjkpbbiejaafi
X-Trace:
pdjoodfomhkjcooblbdnpiohcfhaihoghhlhljbhpccakcdoedmokfndckpegejpdfogoccdklnobnhdhn

mddafagblggaghmjjepjhfebbbakhhdannhmihleihpfgpmpnjjjhkaalbkdom
NNTP-Posting-Date: Mon, 12 Nov 2007 17:04:42 MST
Date: Mon, 12 Nov 2007 18:58:39 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:14651

"Joel Koltner" <JKolstad71HatesSpam@yahoo.com> wrote in message
news:13jh6asmfb1nga8@corp.supernews.com...

> Of course, there are some pretty good 100% free options: KiCAD and gEDA
> being the most well-known.

The Fedora project just released a custom Live CD oriented toward
electronics development. It includes gEDA, as well as kicad, so this is a
pretty painless way to try it out. hmmm ... I can't seem to find the
original link at fedoraproject, but a quick google shows dozens of places it
can be downloaded from ... google on "Fedora Electronic Lab"

..

From -3871793465271041776
X-Google-Thread: fc2a5,87982d325063e226
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!
trndny06.POSTED!10db65f4!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PCB Layout S/W Recmondations?
From: "Dr. Grok" <DRGrok@munged.net>
References: <Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70>
Organization: Your Company
User-Agent: Xnews/5.04.25
Lines: 18
Message-ID: <ox6_i.1105$OJ.401@trndny06>
Date: Tue, 13 Nov 2007 00:50:28 GMT
NNTP-Posting-Host: 71.245.228.134
X-Complaints-To: abuse@verizon.net
X-Trace: trndny06 1194915028 71.245.228.134 (Mon, 12 Nov 2007 19:50:28 EST)
NNTP-Posting-Date: Mon, 12 Nov 2007 19:50:28 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:14652

John Tartar <john_tartar@yahoo.com> wrote in
news:Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70:

> Does anyone know of a simple, but free PCB layout software.
>
> Or a way to convert .pcb files from EXPRESSPCB to industry standard
> format.

>
> I currently use ExpressPCBs layout s/w which is fine for my
> applications and great for prototypes. But I want the option to use
> other vendors when the volume gets high, i.e. selling kits.
>

Try gEDA -- free. Full suite of design software. Contain gschem to do the schematic, then export to pcb [also in the package]. You can print the layout 1:1 on a transparancy and make your own boards if you want.

Dr. G.

```
From -7542082397427201628
X-Google-Thread: fc2a5,87982d325063e226
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 13 Nov 2007 04:38:12 -0600
Date: Tue, 13 Nov 2007 10:38:31 +0000
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PCB Layout S/W Recommendations?
References: <Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70>
<13jh6asmfb1nga8@corp.supernews.com> <uS5_i.956$8x6.887@newsfe02.lga>
In-Reply-To: <uS5_i.956$8x6.887@newsfe02.lga>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <xNudnYGpoZ0J46TaRVnyjwA@pipex.net>
Lines: 19
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.233.121
X-Trace:
sv3-0mo0LlEDs4gFkmzUNLshPoTyieGZey2zpCG6WgkfgK0FcGJ7ZSLdGH5NWNFGduTzXITTkgFp63LMlp
L!MFEe+iNOSOgS7dry/9KDBZL/eMkbexX5MGXhndNGp8KmlW/ik/6Qh8x2PvVuj6LER5AnuLC0X4jf!
YSMq41o8xdJeCD8=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14653
```

xpyttl wrote:
> "Joel Koltner" <JKolstad71HatesSpam@yahoo.com> wrote in message
> news:13jh6asmfb1nga8@corp.supernews.com...
>
>> Of course, there are some pretty good 100% free options: KiCAD and gEDA

>> being the most well-known.
>
> The Fedora project just released a custom Live CD oriented toward
> electronics development. It includes gEDA, as well as kicad, so this is a
> pretty painless way to try it out. hmmm ... I can't seem to find the
> original link at fedoraproject, but a quick google shows dozens of places it
> can be downloaded from ... google on "Fedora Electronic Lab"

===========================
I found gEDA at one of the Mandriva Linux repositories ....excellent.
Tnx for the info.

The prog is highly likely also available at an Ubuntu Linux repository.

Frank   GM0CSZ / KN6WH

From -6455367170018643145
X-Google-Thread: fc2a5,bbf17027ddd76f68,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z24g2000prh.googlegroups.com!not-for-mail
From: a.a.hartley@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Long range portable transmitter
Date: Tue, 13 Nov 2007 04:16:10 -0800
Organization: http://groups.google.com
Lines: 21
Message-ID: <1194956170.875616.270050@z24g2000prh.googlegroups.com>
NNTP-Posting-Host: 219.88.157.177
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1194956171 25481 127.0.0.1 (13 Nov 2007 12:16:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 13 Nov 2007 12:16:11 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: z24g2000prh.googlegroups.com; posting-host=219.88.157.177;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14654

Hello,

I am trying to design and develop a long range portable transmitter.

When I say long range I am talking open distances between 5 km and 10
km radius where a receiver is established at the highest center point
within this radius and also elevated using a 20 meter antenna.

Ideally the transmitter will 'send' a three digit numeric code, such
as 101 or 102.

I have researched existing products and have found one of the VHF variety which would satisfy my requirements however it is exspensive and not exactly of the 'portable' variety.

What I am looking for is suggestions on existing products or designs that could be used to acheive my requirements.

Thank you.

From -7386195339203537587
X-Google-Thread: fc2a5,bbf17027ddd76f68
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range portable transmitter
Date: Tue, 13 Nov 2007 13:39:12 +0000 (UTC)
Organization: MGT Consulting
Lines: 89
Message-ID: <slrnfjj9hp.5fv.gsm@cable.mendelson.com>
References: <1194956170.875616.270050@z24g2000prh.googlegroups.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-138-188-245.bb.netvision.net.il
X-Trace: marvin.inside.misty.com 1194961152 6870 89.138.188.245 (13 Nov 2007 13:39:12 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Tue, 13 Nov 2007 13:39:12 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14655

a.a.hartley@gmail.com wrote:

> When I say long range I am talking open distances between 5 km and 10 km radius where a receiver is established at the highest center point within this radius and also elevated using a 20 meter antenna.

Is this for licensed or unlicensed operation? This is an amateur radio group, but will it be extended to non hams?

Is this a "one off" unit, or do you plan to make
5? 10? 1,000? sell them to everyone on the planet?

What do you mean by the word portable?
Pocket sized?
The size of a book?

A small suitcase?

Will it provide it's own power?

How long will it need to run?

> Ideally the transmitter will 'send' a three digit numeric code, such
> as 101 or 102.

How? CW (switched carrier?) MCW (modulated switched carrier?)
Voice (AM? FM? SSB?), some sort of digital modulation?

Let's take a very specific example here:

You want to operate licensed using the 2m Ham band.

You buy a stadard 2m FM "HT" (handheld radio) and add the following equipment to it:

1. A larger external battery pack.
2. A tone generator for the modulated CW.
3. A device to turn on and off the tones and the transmitter.

Most modern radios can be placed in a standby mode which uses so little power in relation to the transmitter that it is not needed to turn them off. Doing so adds complexity to both the computer program that controls it and the device itself.

A Palm pilot or similar device (think off the shelf technology), to control it.

The program would be something like:

1. Turn on the radio.
2. Wait 10 seconds for the radio to turn on completely.
3. Turn on the tone generator. (may be generated by the controler itself)
4. Switch the radio into transmit mode.
5. Wait 3 seconds for the transmitter to stabilize.
6. Key the transmitter on and off to generate the message.
   Unlicensed operation would use a simpler message, just the transmitter ID, but some ownership contact information might be usefull.

   Licensed operation would be something like
   "DE <callsign>/p <id number>". Different countries have different requirments for unatended operation, including messages.

7. Turn off transmission.
8. Turn off tone generator.
9. Turn off radio.
10. Wait 10 minutes for next transmission.

If you do use CW or MCW, then it should IMHO be no faster than

5 words per minute. The idea is to be identifiable by as many
people as possible.

Range depends upon relative hight to the receiver, antenna type
and power output. It also depends upon what you plan to receive it
with.

> I have researched existing products and have found one of the VHF
> variety which would satisfy my requirements however it is exspensive
> and not exactly of the 'portable' variety.
>
> What I am looking for is suggestions on existing products or designs
> that could be used to acheive my requirements.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
IL Voice: (07)-7424-1667 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/

From 976456896668653781
X-Google-Thread: fc2a5,bbf17027ddd76f68
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k35g2000prh.googlegroups.com!not-for-mail
From: a.a.hartley@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range portable transmitter
Date: Tue, 13 Nov 2007 06:46:20 -0800
Organization: http://groups.google.com
Lines: 40
Message-ID: <1194965180.061998.193480@k35g2000prh.googlegroups.com>
References: <1194956170.875616.270050@z24g2000prh.googlegroups.com>
   <slrnfjj9hp.5fv.gsm@cable.mendelson.com>
NNTP-Posting-Host: 219.88.157.177
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1194965181 21381 127.0.0.1 (13 Nov 2007 14:46:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 13 Nov 2007 14:46:21 +0000 (UTC)
In-Reply-To: <slrnfjj9hp.5fv.gsm@cable.mendelson.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k35g2000prh.googlegroups.com; posting-host=219.88.157.177;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14656

Hello Geoff,

Thank you for your response.

> Is this for licensed or unlicensed operation?

Eventually licensed.

> Is this a "one off" unit, or do you plan to make
> 5? 10? 1,000? sell them to everyone on the planet?

I plan to replicate approximately 10 to 15 transmitter units and one receiver. This project is for a volunteer organisation.

> What do you mean by the word portable?

When I said portable, I was referring to it being independant of an external power source or external mounted ariel. It's ideal size would be similar to that of a book, preferably a cellular phone, however cost is the main consideration.

> Will it provide it's own power?

Yes.

> How long will it need to run?

There is no operating time requirement, the only time related requirement is that the power source lasts long enough to transmit a simple message.

> How? CW (switched carrier?) MCW (modulated switched carrier?)
> Voice (AM? FM? SSB?), some sort of digital modulation?

I was thinking AM or FM however CW is an option.

Whichever is the cheapest component wise and irrespective of the power requirements, is portable and can transmit at the desired range of 5 km to 10 km.

From 7523877722635970942
X-Google-Thread: fc2a5,c460f7e204afeba5
X-Google-Thread: 115730,c460f7e204afeba5
X-Google-Attributes: gidfc2a5,gid115730,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!usenet-fr.net!grolier!rain.fr!news.wanadoo.fr!news.wanadoo.fr!not-for-mail
From: "Robert Lacoste" <use-contact-at-www-alciom-com-for-email>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.equipment
References: <47348811$0$27377$ba4acef3@news.orange.fr> <8%4Zi.5950$L97.4277@newsfe19.lga> <HX5Zi.2500$Od.940@newsfe16.lga>

```
<uLedncSHsNrk6KjanZ2dnUVZ_q2hnZ2d@comcast.com>
Subject: Re: RF replacement diode for Boonton detector ?
Date: Tue, 13 Nov 2007 16:52:30 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 071112-0, 12/11/2007), Outbound message
X-Antivirus-Status: Clean
Lines: 16
Message-ID: <4739c841$0$5099$ba4acef3@news.orange.fr>
Organization: les newsgroups par Orange
NNTP-Posting-Date: 13 Nov 2007 16:52:34 CET
NNTP-Posting-Host: 82.127.112.2
X-Trace: 1194969154 news.orange.fr 5099 82.127.112.2:12936
X-Complaints-To: abuse@orange.fr
Xref: g2news1.google.com rec.radio.amateur.homebrew:14657
sci.electronics.equipment:9613


"Pete KE9OA" <p.gianako@comcast.net> a �crit dans le message de news:
uLedncSHsNrk6KjanZ2dnUVZ_q2hnZ2d@comcast.com...
>I wonder if it is similar to the RF Voltmeter probes. They also use a dual
>diode design.
>
> Pete

Very probably similar, at least if the frequency bands are similar
(100KHz-18GHz for the 51013 probe I want to repair).
Pete, where is your web site ?

Thanks for your advices !
Robert





From 3548910827951282401
X-Google-Thread: fc2a5,c460f7e204afeba5
X-Google-Thread: 115730,c460f7e204afeba5
X-Google-Attributes: gidfc2a5,gid115730,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!usenet-
fr.net!ircam.fr!freenix!news.wanadoo.fr!news.wanadoo.fr!not-for-mail
From: "Robert Lacoste" <use-contact-at-www-alciom-com-for-email>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.equipment
References: <47348811$0$27377$ba4acef3@news.orange.fr>
<1194629024.203841.115070@57g2000hsv.googlegroups.com>
Subject: Re: RF replacement diode for Boonton detector ?
Date: Tue, 13 Nov 2007 16:52:51 +0100
X-Priority: 3
X-MSMail-Priority: Normal
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```
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 071112-0, 12/11/2007), Outbound message
X-Antivirus-Status: Clean
Lines: 32
Message-ID: <4739c856$0$25954$ba4acef3@news.orange.fr>
Organization: les newsgroups par Orange
NNTP-Posting-Date: 13 Nov 2007 16:52:54 CET
NNTP-Posting-Host: 82.127.112.2
X-Trace: 1194969174 news.orange.fr 25954 82.127.112.2:12937
X-Complaints-To: abuse@orange.fr
Xref: g2news1.google.com rec.radio.amateur.homebrew:14658
sci.electronics.equipment:9614

"K7ITM" <k7itm@msn.com> a �crit dans le message de news:
1194629024.203841.115070@57g2000hsv.googlegroups.com...
> On Nov 9, 8:17 am, "Robert Lacoste" <use-contact-at-www-alciom-com-for-
> email> wrote:
>> Hi,
>>
>> I have a faulty Boonton 51013 power sensor, which is a diode based probe
>> for
>> the 4220 RF milliwattmeters. And one of the two detection diodes is out.
>> Of
>> course both diodes would probably need to be replaced and full
>> calibration
>> to be done again; but do you have any idea for a potential replacement
>> diode, not too difficult to find and working up to 10 or 20GHz ?
>>
>> Thanks for your ideas. Experiences of 510XX sensors repairs would be also
>> welcome, as the diodes are packed in a copper film...
>>
>> Robert
>
> Don't know specifically about your Boonton, but would a diode from the
> Avago HSCH-53xx series be useful?  Some are rated for use up to
> 26GHz.  They are small, of course, about .006 inches wide and .027
> inches long (with leads that could perhaps be cut to yield perhaps .
> 020 inch net length, if absolutely necessary).
>
> Cheers,
> Tom

Thanks Tom.




From 2378446491922828721
X-Google-Thread: fc2a5,bbf17027ddd76f68
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news1.google.com!news4.google.com!out03b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx02.iad01.newshosting.com!newshosting.com!198.186.194.247.MISMATCH!news-
out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range portable transmitter
Date: Tue, 13 Nov 2007 16:04:18 +0000 (UTC)
Organization: MGT Consulting
Lines: 89
Message-ID: <slrnfjjil9.2j9.gsm@cable.mendelson.com>
References: <1194956170.875616.270050@z24g2000prh.googlegroups.com>
<slrnfjj9hp.5fv.gsm@cable.mendelson.com>
<1194965180.061998.193480@k35g2000prh.googlegroups.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-138-252-237.bb.netvision.net.il
X-Trace: marvin.inside.misty.com 1194969858 21120 89.138.252.237 (13 Nov 2007
16:04:18 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Tue, 13 Nov 2007 16:04:18 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14659

a.a.hartley@gmail.com wrote:

> Thank you for your response.

You're welcome, I hope this helps.

>> Is this for licensed or unlicensed operation?
>
> Eventually licensed.

Ok, then I would start off with what is called in the U.S.
Family Radio Service "walkie talkies". They are cheap,
easy to buy and availble almost anywhere. In the U.S.
they operate on 464 mHz, in most other places 446 mHz.

They have a relatively short range. Stated range is 5 to 10
miles, but unless you are on a mountain top talking to someone
on another mountain top, it's more like 1km or less.

However they can be used without a license and as I said,
cheap. Good to experiment with.

> I plan to replicate approximately 10 to 15 transmitter units and one
> receiver. This project is for a volunteer organisation.

Ok, then I would look into making a controller board or interface
on a printed circuit board. There is plenty of design software
around and you may be able to find a shop that does low quantity
boards for amateur use.

> When I said portable, I was referring to it being independant of an

> external power source or external mounted ariel. It's ideal size would be similar to that of a book, preferably a cellular phone, however cost is the main consideration.

FRS units have permantently attached ariels. Ham radios have removable ones so you can start with a "rubber ducky" type and upgrade to a dipole. A 2m antenna is 38 inches long, around 1 meter.

> There is no operating time requirement, the only time related requirement is that the power source lasts long enough to transmit a simple message.

A battery pack with AA batteries will run one for several hours of sending short messages. You can use disposable batteries or NiMH rechargables for longer battery life. NiMH batteries lose their charge over a week or so, and have problems "floating" on a charger, so if they have to sit in a box waiting for an emergency, alkeline disposable batteries are IMHO better.

> I was thinking AM or FM however CW is an option.

Cheap handheld units are normally FM, this includes FRS type, 70cm and 2m ham radios and 49mHz unlicensed ones.

27mHz CB type radios are AM (and expensive ones SSB), but in the U.S. are restricted to voice only by law. They do have a wider range in most cases.

As for the controllers, the question is exactly how "off the shelf" do they need to be? If you have someone on the project who can figure out how to add the switching logic and a someone to modify the operating system for you, discarded iPods would be perfect. There are lots of them lying in drawers, being too good to throw out and too expensive to fix (mostly battery replacement).

You could also do it with old pocket PC's, Palm Pilots, etc. Probably more easily.

What ever you do, try to get 20-30 of them before you start, several will fail or be broken in development and it's difficult to start over again because you ran out of parts.

>
> Whichever is the cheapest component wise and irrespective of the power requirements, is portable and can transmit at the desired range of 5 km to 10 km.
>

That will have to be found out by testing. 10km in London, New York, or Jerusalem will be very difficult, while 10km in a flat area will be easy.

Geoff.
--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
IL Voice: (07)-7424-1667 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/

From 5606317868539887127
X-Google-Thread: fc2a5,84d4a976322ad7e3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k79g2000hse.googlegroups.com!not-for-mail
From: "Gian, I7SWX" <i7swx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SMT replacement for BF244/BF245/BF247
Date: Tue, 13 Nov 2007 08:57:57 -0800
Organization: http://groups.google.com
Lines: 20
Message-ID: <1194973077.292940.95470@k79g2000hse.googlegroups.com>
References: <5ppaksFsek14U1@mid.dfncis.de>
NNTP-Posting-Host: 82.49.22.70
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1194973077 1031 127.0.0.1 (13 Nov 2007 16:57:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 13 Nov 2007 16:57:57 +0000 (UTC)
In-Reply-To: <5ppaksFsek14U1@mid.dfncis.de>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k79g2000hse.googlegroups.com; posting-host=82.49.22.70;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14660

On Nov 11, 10:31 pm, Markus Wolfgart <markus.wolfg...@dlr.de> wrote:
> Hi OM's,
>
> could someone please tell my the SMT replacement transistors
> for the mentioned parts in the subject line.
>
> Many thanks in advance
>
> Markus
> DL8MBY

Hi Markus,

you may look for MMBFU310LT1 manufactured by ON Semiconductors

73

Gian
I7SWX

From -1441214908133168090
X-Google-Thread: fc2a5,bbf17027ddd76f68
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range portable transmitter
Date: Tue, 13 Nov 2007 17:09:35 +0000 (UTC)
Organization: MGT Consulting
Lines: 39
Message-ID: <slrnfjjmgd.3fe.gsm@cable.mendelson.com>
References: <1194956170.875616.270050@z24g2000prh.googlegroups.com>
<slrnfjj9hp.5fv.gsm@cable.mendelson.com>
<1194965180.061998.193480@k35g2000prh.googlegroups.com>
<slrnfjjil9.2j9.gsm@cable.mendelson.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-138-252-237.bb.netvision.net.il
X-Trace: marvin.inside.misty.com 1194973775 27524 89.138.252.237 (13 Nov 2007 17:09:35 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Tue, 13 Nov 2007 17:09:35 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14661

Geoffrey S. Mendelson wrote:
> As for the controllers, the question is exactly how "off the shelf" do
> they need to be? If you have someone on the project who can figure out
> how to add the switching logic and a someone to modify the operating
> system for you, discarded iPods would be perfect. There are lots of
> them lying in drawers, being too good to throw out and too expensive
> to fix (mostly battery replacement).

After I wrote this I was looking through an old magazine and found a cicruit to take the output of a tape recorder and use it to key a transmitter. This one used a single transistor and a relay.

I would update it a bit and instead of using a tape recorder, I would use a small MP3 player. The kind that use a single AAA battery, and look like a package of chewing gum sticks.

If you modify them to run from external power, will run for almost a day on a high capacity AA rechargable battery.

If you create an MP3 file with what you want on it at a low enough bit rate for "telephone" quality, it would run for an hour on 10 megabytes of memory. E.g. a 256 megabyte unit will run for 25 hours.

Some of them will play the same file over and over, so you can loop from when you hit the start button until the battery dies.

The cost is low, WalMart's website has them with 1gigbyte of memory for $25 and I'm sure you can find 64megabyte ones very cheap, or even used for free. Since they all would have the same connection, a headphone jack, getting duplicates would not be a requirement.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
IL Voice: (07)-7424-1667 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/

From 354812517251064954
X-Google-Thread: fc2a5,87982d325063e226
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: John Tartar <john_tartar@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PCB Layout S/W Recmondations?
Date: Tue, 13 Nov 2007 18:26:51 -0000
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <Xns99E76A57EFF98johntartaryahoocom@216.168.3.70>
References: <Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70>
<ox6_i.1105$OJ.401@trndny06>
User-Agent: Xnews/5.04.25
X-Complaints-To: abuse@supernews.com
Lines: 35
Xref: g2news1.google.com rec.radio.amateur.homebrew:14662

"Dr. Grok" <DRGrok@munged.net> wrote in news:ox6_i.1105$OJ.401@trndny06:

> John Tartar <john_tartar@yahoo.com> wrote in
> news:Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70:
>
>> Does anyone know of a simple, but free PCB layout software.
>>
>> Or a way to convert .pcb files from EXPRESSPCB to industry standard
>> format.
>>
>> I currently use ExpressPCBs layout s/w which is fine for my
>> applications and great for prototypes. But I want the option to use

>> other vendors when the volume gets high, i.e. selling kits.
>>
>
> Try gEDA -- free. Full suite of design software. Contain gschem to do
> the schematic, then export to pcb [also in the package]. You can print
> the layout 1:1 on a transparancy and make your own boards if you want.
>
> Dr. G.
>

Thanks for all the suggestions. However, I should have mentioned that I'm
using Windows 98.

1) gEDA appears to be only for Linux & Mac.

2) I installed PCB artist, but thee's no component libraries, and the
prices for the small runs are about $100 higher than Express PCB

3) I'm not doing this for porfit, Ham radio is my hobby not my job, so
anything boards I make I will either give away, or sell at cost.

4) I'm off to try Eagle that Tim receomnded, 80x100mm 2 payer boards are
fine, all my designs are in PCB Expresses miniboard format.

From 875561759827205471
X-Google-Thread: fc2a5,87982d325063e226
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!
news.astraweb.com!newsrouter-eu.astraweb.com!newsfeed101.telia.com!
nf02.dk.telia.net!newspeer1.se.telia.net!se.telia.net!masternews.telia.net.!
newsb.telia.net.POSTED!not-for-mail
From: bjorn drefeldt <bjrn.drefeldt@telia.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.13) Gecko/20060501
Fedora/1.7.13-1.1.fc4
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PCB Layout S/W Recmondations?
References: <Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70>
<ox6_i.1105$OJ.401@trndny06> <Xns99E76A57EFF98johntartaryahoocom@216.168.3.70>
In-Reply-To: <Xns99E76A57EFF98johntartaryahoocom@216.168.3.70>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 45
Message-ID: <IDm_i.270$R_4.223@newsb.telia.net>
Date: Tue, 13 Nov 2007 19:09:28 GMT
NNTP-Posting-Host: 217.210.6.51
X-Complaints-To: abuse@telia.com
X-Trace: newsb.telia.net 1194980968 217.210.6.51 (Tue, 13 Nov 2007 20:09:28 CET)
NNTP-Posting-Date: Tue, 13 Nov 2007 20:09:28 CET

```
Organization: Telia Internet
Xref: g2news1.google.com rec.radio.amateur.homebrew:14663

John Tartar wrote:
> "Dr. Grok" <DRGrok@munged.net> wrote in news:ox6_i.1105$OJ.401@trndny06:
>
>
>>John Tartar <john_tartar@yahoo.com> wrote in
>>news:Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70:
>>
>>
>>>Does anyone know of a simple, but free PCB layout software.
>>>
>>>Or a way to convert .pcb files from EXPRESSPCB to industry standard
>>>format.
>>>
>>>I currently use ExpressPCBs layout s/w which is fine for my
>>>applications and great for prototypes. But I want the option to use
>>>other vendors when the volume gets high, i.e. selling kits.
>>>
>>
>>Try gEDA -- free.  Full suite of design software.  Contain gschem to do
>>the schematic, then export to pcb [also in the package].  You can print
>>the layout 1:1 on a transparancy and make your own boards if you want.
>>
>>Dr. G.
>>
>
>
> Thanks for all the suggestions.  However, I should have mentioned that I'm
> using Windows 98.
>
> 1) gEDA appears to be only for Linux & Mac.
>
> 2) I installed PCB artist, but thee's no component libraries, and the
> prices for the small runs are about $100 higher than Express PCB
>
> 3) I'm not doing this for porfit, Ham radio is my hobby not my job, so
> anything boards I make I will either give away, or sell at cost.
>
> 4) I'm off to try Eagle that Tim receomnded, 80x100mm 2 payer boards are
> fine, all my designs are in PCB Expresses miniboard format.

I have used Protel Autotrax downloaded from
http://www.altium.com/Community/Support/Downloads/
It is DOS program but works perfectly with Windows 98
It can generate gerber files (industry standard) and has no board size
limitation


From 7947863595432288449
X-Google-Thread: fc2a5,87982d325063e226
X-Google-Attributes: gidfc2a5,public,usenet
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe05.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Xns99E5C1D2D5D0Fjohntartaryahoocom@216.168.3.70>
<ox6_i.1105$OJ.401@trndny06> <Xns99E76A57EFF98johntartaryahoocom@216.168.3.70>
Subject: Re: PCB Layout S/W Recmondations?
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <3Tq_i.653$IE3.371@newsfe05.lga>
NNTP-Posting-Host: edmokfndckpegejpmhkjjkpbbiejaafi
X-Trace:
dbkajaeeceiapgbclbdnpiohcfhaihogmlkhnlkaaejjncceedmokfndckpegejpdfogoccdklnobnhdgj
abgplpepgdlpgfmjjepjhfebbbakhhhpngddpnmlngdjbabiolfnmaoelafkfh
NNTP-Posting-Date: Tue, 13 Nov 2007 16:58:55 MST
Date: Tue, 13 Nov 2007 18:58:45 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:14664


"John Tartar" <john_tartar@yahoo.com> wrote in message
news:Xns99E76A57EFF98johntartaryahoocom@216.168.3.70...


> Thanks for all the suggestions.  However, I should have mentioned that I'm
> using Windows 98.
>
> 1) gEDA appears to be only for Linux & Mac.

???  I'm running it on XP (and Linux, too) -- there are standalone compiles
as well as Cygwin.

> 2) I installed PCB artist, but thee's no component libraries, and the
> prices for the small runs are about $100 higher than Express PCB

Again, where are you getting this stuff??  The main problem seems to be that
there are so many libraries that it is difficult to locate the part you want
amidst all the noise

..




From -7987043398630603635
X-Google-Thread: fc2a5,97b94653e92d5dc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v3g2000hsg.googlegroups.com!not-for-
```

```
mail
From:  terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Microwave oven transformers.
Date: Sat, 03 Nov 2007 14:12:00 -0700
Organization: http://groups.google.com
Lines: 13
Message-ID: <1194124320.851438.138260@v3g2000hsg.googlegroups.com>
References: <1194115568.762955.4390@v3g2000hsg.googlegroups.com>
   <pan.2007.11.03.19.27.53@netins.net>
   <13ipll05pied6df@corp.supernews.com>
NNTP-Posting-Host: 142.162.129.19
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1194124321 14590 127.0.0.1 (3 Nov 2007 21:12:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Nov 2007 21:12:01 +0000 (UTC)
In-Reply-To: <13ipll05pied6df@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v3g2000hsg.googlegroups.com; posting-host=142.162.129.19;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1401

On Nov 3, 6:09 pm, "COLIN LAMB" <k...@teleport.com> wrote:
> You can also use them as a Hi-Pot tester.  Connect the secondary as a
> voltage quadrupler to get 12 KV.  Used for testing voltage breakdown.  Check
> oyut Hi-Pot testers.  They are current limited breakdown testers.
>
> Also make reasonable good door stops.  The primary wires can be formed into
> a carrying handle.
>
> 73,  Colin  K7FM

Thanks for idea: Yup recall using 2Kv static DC testers on gear rated
for 48 volts!



From 6133126779023929007
X-Google-Thread: fc2a5,65ed45ebaf467a26
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!fu-berlin.de!uni-
berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: tuned circuit, anyone?
Date: 3 Nov 2007 22:29:58 GMT
Lines: 11
Message-ID: <slrnfiptj6.1c2i.bit-bucket@shell.config.com>
```

```
References: <pan.2007.11.03.05.36.10.189463@invalid.nospam>
<g8muv4-6ps.ln1@remote.clifto.com>
X-Trace: individual.net OisT94wEorbRmHiFGWE1FAmhjUOfv8/GWhBl5eUyuplH68jVHq
Cancel-Lock: sha1:Dp75pzq1QD1MHFZH0W0Z4BmIJII=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1402

On Sat, 03 Nov 2007 12:03:44 -0500, clifto wrote:
> Doug Smith W9WI wrote:
>> On page 18 of this month's RadComm (RSGB) there is a brief item about
>> "ultracapcitors".  The devices are available in values up to 3,000 Farads.
>>  **3,000 Farads**.  Amazing.
>
> I can't find the reference I thought I kept, but some top-secret business
> plan is in action to use a giant ultracapacitor instead of batteries to
> power an electric automobile.

And, they'll use Cold Fusion to charge it.



From 7556369166789158132
X-Google-Thread: fc2a5,65ed45ebaf467a26
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!sn-xt-sjc-02!sn-
xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Doug Smith W9WI <w9wi@invalid.nospam>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: tuned circuit, anyone?
Date: Sat, 03 Nov 2007 20:56:52 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-Id: <pan.2007.11.04.01.56.51.934886@invalid.nospam>
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
References: <pan.2007.11.03.05.36.10.189463@invalid.nospam>
<1194111704.681733.235480@q3g2000prf.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@supernews.com
Lines: 9
Xref: g2news1.google.com rec.radio.amateur.homebrew:14563

On Sat, 03 Nov 2007 10:41:44 -0700, K7ITM wrote:
> (Scratching my head in puzzlement...)  one farad and one ohm give you
> a 1.1 second time constant??
>
> ;-)  I'll assume that was a slip of the fingers on the keyboard.

Actually a slip of the brain, but same idea.  Oops...
```

```
From 3956872673687807739
X-Google-Thread: fc2a5,97b94653e92d5dc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Microwave oven transformers.
Date: Sun, 04 Nov 2007 00:59:40 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.11.04.07.59.40.113661@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <1194115568.762955.4390@v3g2000hsg.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 10
Organization: Octanews
NNTP-Posting-Date: 04 Nov 2007 01:59:40 CST
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:14564

Hi,

Add current limiting and there's your high current charger :-)

http://www.users.qwest.net/~ptaylor/Electronics/MOTpowersupply/MOTPSpage.html

Cheers,
--
Gregg
```

```
From -1030158347280616384
X-Google-Thread: fc2a5,65ed45ebaf467a26
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 04 Nov 2007 06:02:36 -0600
Date: Sun, 04 Nov 2007 12:02:35 +0000
From: Scott <acepilot@bloomer.net>
Reply-To:  acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: tuned circuit, anyone?
References: <pan.2007.11.03.05.36.10.189463@invalid.nospam>
<1194111704.681733.235480@q3g2000prf.googlegroups.com>
```

```
<pan.2007.11.04.01.56.51.934886@invalid.nospam>
In-Reply-To: <pan.2007.11.04.01.56.51.934886@invalid.nospam>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <WaSdnXmqr5pBKbDanZ2dnUVZ_oytnZ2d@bright.net>
Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-LVQnE/
FaMOtJPdfcyNitr1JosCHF2wy60E56d7Y3ZOfhJZO0q+M5m5sFNiFSOD+2EqzOqFyykc6uFle!
HWvzckBiPs4mAx9Uukt38xmvZSyS27LDybKuOKdTDJlD/Dy06NuVl7CTwO5LXKwdGI5DXbONxQ1V!
yq9Qlt3XIA==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14565
```

Now I'm confused...doesn't Tau (Time Constant) = 1.1RC, hence 1 farad
and 1 ohm would give a time constant of 1.1? Yes, it's only 6AM, but am
I missing something?

Scott
N0EDV

Doug Smith W9WI wrote:

```
> On Sat, 03 Nov 2007 10:41:44 -0700, K7ITM wrote:
>
>>(Scratching my head in puzzlement...)  one farad and one ohm give you
>>a 1.1 second time constant??
>>
>>;-)  I'll assume that was a slip of the fingers on the keyboard.
>
>
> Actually a slip of the brain, but same idea.  Oops...
>
>
```

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

```
From -5420793284626020391
X-Google-Thread: fc2a5,1ae1349271ed11cf,start
X-Google-Thread: 112d1e,1ae1349271ed11cf,start
X-Google-Attributes: gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news1.google.com!news4.google.com!news.germany.com!newsfeed.stueberl.de!peer-uk.news.demon.net!kibo.news.demon.net!news.demon.co.uk!demon!not-for-mail
From: "Andrew Holme" <andrew@nospam.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: VHF Super Regen
Date: Sun, 4 Nov 2007 12:20:37 -0000
Lines: 36
Message-ID: <fgkdef$b22$1$8302bc10@news.demon.co.uk>
NNTP-Posting-Host: holmea.demon.co.uk
X-Trace: news.demon.co.uk 1194178831 11330 80.177.105.226 (4 Nov 2007 12:20:31 GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Sun, 4 Nov 2007 12:20:31 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-Priority: 3
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:14566 sci.electronics.design:296997

I'm playing with super-regenerative oscillators in LTSpice.

My question concerns the 230XP valve VHF super-regenerative oscillator in this figure 8.9:

http://www.holmea.demon.co.uk/temp/duplex.jpg

Here's figure 8.11 from the same book:

http://www.holmea.demon.co.uk/temp/iff.jpg

The text reads: "the super-regenerative oscillator in figure 8.11 is a triode valve connected in a commonly used high-frequency circuit of the Hartley type which relies on the internal capacities of the valve for its operation." Why is it a Hartley when the tap is fed through an RFC?

Does the 230XP oscillator in figure 8.9 also rely on internal valve capacities? How do these oscillators work? What is special about tuning capacitor C in figure 8.11? What is the role of the cathode chokes?

I've been playing with JFET oscillator circuits in LTSpice and I can't get them to oscillate unless the LC network between drain and gate creates a phase inversion. How do these valve circuits make 0 (or 360 degrees) of phase shift around the loop?

What is the nearest semiconductor equivalent of the above valve circuits? Below is a JFET oscillator with feedback from drain to gate; but no reliance on parasitic capacities, although I'm sure they affect the frequency. Is this an LC Pierce?

http://www.holmea.demon.co.uk/temp/osc.asc

TIA
Andrew.

```
From 959968325308185815
X-Google-Thread: fc2a5,86fd2a338943920c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k35g2000prh.googlegroups.com!not-for-
mail
From:  Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: More on the Kenwood 820s.
Date: Sun, 04 Nov 2007 04:31:22 -0800
Organization: http://groups.google.com
Lines: 75
Message-ID: <1194179482.057691.274600@k35g2000prh.googlegroups.com>
References: <47200d29$1@clear.net.nz>
   <1193499394.096922.75240@y27g2000pre.googlegroups.com>
   <47282405$1@clear.net.nz>
NNTP-Posting-Host: 218.215.142.50
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1194179482 25992 127.0.0.1 (4 Nov 2007 12:31:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 4 Nov 2007 12:31:22 +0000 (UTC)
In-Reply-To: <47282405$1@clear.net.nz>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.9) Gecko/
20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k35g2000prh.googlegroups.com; posting-host=218.215.142.50;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14567

On Oct 31, 5:43 pm, cliff wright <c.c.wri...@paradise.net.nz> wrote:
> Andrew VK3BFA wrote:
> > On Oct 25, 1:27 pm, cliff wright <c.c.wri...@paradise.net.nz> wrote:
>
> >>Well I've got all my TX problems sorted out fine now.
> >>However I am beginning to think that the receiver is somewhat noisy.
> >>When set up as per manual I am getting about a S3 internal noise level
> >>on sideband.
> >>My unit has had the RF stage modified as per the International Radio
> >>mods and also the balanced mixer. In the next few days I hope to have a
> >>look at this problem too, it is possible that the mixer balance is not
> >>very perfect for example.
> >>It was also fitted with back to back 1N4148 diodes across the RX input
> >>and these might just have been damaged  with the tx problem.
> >>Has anyone else had a similar experience with this rig?
> >>Regards Cliff Wright ZL1BDA ex G3NIA.
```

>
> > Remove ALL the mods. Take it back to original - that way, you will be
> > looking for a fault rather than trying to figure out if its the mods,
> > faulty mods, something else, etc etc.
>
> > The original design engineers had a pretty good idea of how it was
> > supposed to work, published specifications in the manual, are based on
> > this. Your battling with "mods" - how can find any fault with
> > extraneous mods?
>
> > Get an established reference point, ie the service manual. Go forward
> > from there.....
>
> > Andrew VK3BFA.
>
> Hi Andrew.
> Well I ran it for over a year before making the modifications.
> These were basically using more advanced MOSFET's in the rf and balanced
> mixer stages with some bias adjustments to suit.
> From my measurements (I have a pretty well equipped home electronics
> workshop) it did make some improvement to the internal noise floor and
> about a 6 to 10 dB improvement in overload capacity.
> I must actually beg to differ a little about the original design
> engineers. As I pointed out the 820S was produced with a least 5
> different 1st mixer source circuits in production and the coupling to
> the balanced mixer is not optimum by any means. This doesn't look to me
> like a fully optimised design!
> BTW I did actually restore things the way they were and it just went
> back the way it was, and the noise was still there.
> Perhaps I should point out that I have designed and built 10 different
> communication receivers in the last 40 years and have owned most of the
> well known older commercial units too, in fact in the late 1970s I
> worked 200 countries confirmed and got my WAC with a completely homebrew
> station running 100 watts to a TT21 final.
> Further investigation has confirmed so far that we have a serious local
> problem with mains radiated QRN here.
> Some experiments the other evening showed that the noise has decided
> polarisation characteristics as a 5/8 wave 20 metre vertical produces
> a similar noise level to my G5RV but with greater impulsive
> characteristics, a bit like auto ignition noise.
> The jury is still out but fortunately another local ham works for the
> power distribution company and I'm going to get in contact with him to s
> share our experiences.
> Very dissapointing though as I have a nice elevated site and had great
> hopes of getting some good DX.
> I'll post anything I find out further.
> 73's Cliff Wright ZL1BDA ex G3NIA

I stand corrected - it was from my own experience of fixing other
peoples radios where a bizarre collection of "mods" had degraded the
actual performance!. But, as you point out, you have the test gear and
the knowledge to eliminate this.

In the end, its going to be something very simple (isnt it always?) and possibly related to an error made while doing something else in there........(been there, done that - still drives me NUTS!!!)

Andrew VK3BFA.

From -1724358464302236291
X-Google-Thread: fc2a5,3472182b6d1ecadb,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-02!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: When at last you do seem to succeed...
Date: Sun, 4 Nov 2007 07:55:23 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13irjr0rffs7vbe@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 18
Xref: g2news1.google.com rec.radio.amateur.homebrew:14568

For God's sake hide your astoishment.

Built an active, tunable antenna, and finally have something to seriously play with. As I understand it, sunspot activity is only a notch or two above the all-time recorded low, and I am still able to pick up some stations off the whip, with only a little more noise than with the external antenna. Radio Havana Cuba comes in like it's in my back pocket, which it practically is, and the ubiquitous WWV comes in weakly, which doesn't surprise me too much since I am inside a steel shell and sitting on the floor. Wow. Feels sooo nice. And what's funny is, I can hear the clock on the opposite side of the room ticking quietly in the background of weaker stations. Not sure what to do next. May try adding another stage of amplification to the front end. An NE602, maybe. The project that never dies...

Dave

From -8877675155568724468
X-Google-Thread: fc2a5,5554fce1a60e4cd3,start
X-Google-Thread: fc8b1,5554fce1a60e4cd3,start

X-Google-Thread: 10b9c8,5554fce1a60e4cd3,start
X-Google-Thread: 111d0a,5554fce1a60e4cd3,start
X-Google-Thread: 113975,5554fce1a60e4cd3,start
X-Google-Attributes: gidfc2a5,gidfc8b1,gid10b9c8,gid111d0a,gid113975,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!panix!
rri.panix.com!robomod!not-for-mail
From: "bill.meara@gmail.com" <bill.meara@gmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.info,sci.electr
onics.basics,sci.astro.amateur
Subject: SolderSmoke -- A Podcast About Electronics -- #68
Followup-To:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.basics,sc
i.astro.amateur
Date: Sun, 4 Nov 2007 10:13:02 EST
Organization: http://groups.google.com
Lines: 49
Approved: RRI Admin <rec-radio-info-request@panix.com>
Message-ID: <1194165271.788092.3670@57g2000hsv.googlegroups.com>
NNTP-Posting-Host: panix6.panix.com
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: reader1.panix.com 1194189182 21786 166.84.1.6 (4 Nov 2007 15:13:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 4 Nov 2007 15:13:02 +0000 (UTC)
X-RRI-Policy: http://www.panix.com/~rram/usenet/rri/index.html
X-RRI-Info-1: Send submissions to   rec-radio-info@panix.com
X-RRI-Info-2: Send technical complaints to   rec-radio-info-request@panix.com
X-RRI-Info-3: Send complaints about policy to rec-radio-info-request@panix.com
X-Comment-1: The moderators do not necessarily agree or disagree with this
article.
X-Comment-2: Moderators do not verify the accuracy of posted information.
X-Comment-3: Acceptance does not convey approval of any external references.
X-Robomod: STUMP, ichudov@algebra.com (Igor Chudov), C++/Perl/Unix Consulting
X-Moderation-1: Hassle-Free commercial hosting of moderation sites available
X-Moderation-2: See http://www.algebra.com/~ichudov/stump
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 57g2000hsv.googlegroups.com; posting-host=81.208.83.208;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14569
rec.radio.amateur.boatanchors:13038 rec.radio.info:597
sci.electronics.basics:64701 sci.astro.amateur:93104

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http://www.soldersmoke.com

Listen at: http://www.soldersmoke.com

SolderSmoke #68
November 4, 2007
Billy's B'day,
First Italian QSO (with clip),
The N3ZI Special,
Cuban Islander SSB rig,
SatNav,
Nanotube radio,
Fall SPRAT: Pine resin,
Messages from Wes and Roger
MAILBAG:
Digital Gong, Comet 17P Holmes,
Letter from ZL, IZ0BNW/1

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http://www.soldersmoke.com/soldersmoke.rss

If you don't have an MP3 player you can just go to the site below and listen to the latest program (and earlier editions) using the audio software on your computer.

http://www.soldersmoke.com

All the programs are available here.

I hope you enjoy the program. Please send us feedback.

73 from Rome
Bill M0HBR N2CQR CU2JL
http://www.gadgeteer.us

```
From 5357883853552503409
X-Google-Thread: fc2a5,3472182b6d1ecadb
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!sn-xt-sjc-03!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
```

From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: When at last you do seem to succeed...
Date: Sun, 4 Nov 2007 07:17:58 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13irokn3ju8ds62@corp.supernews.com>
References: <13irjr0rffs7vbe@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 14
Xref: g2news1.google.com rec.radio.amateur.homebrew:14570

When the sunspots are really low, there are still radio things that can be done. Disassemble the old solar powered calculator you got as a freebie and use it to power a one transistor oscillator, using one of the many old odd ball crystals you have in a drawer. Then put in a plastic box an hook a piece of wire to it and place it outside. When the sun shines, the radio will transmit. The more you have, the more signals you will hear. You can place many around the neighborhood, if you are into dx.

Since the crystal will be affected by temperature, you can calibrate the actual received frequency with outside temperature and impress your friends.

Colin K7FM

From 3923424823699828453
X-Google-Thread: fc2a5,65ed45ebaf467a26
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k35g2000prh.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: tuned circuit, anyone?
Date: Sun, 04 Nov 2007 08:05:46 -0800
Organization: http://groups.google.com
Lines: 22
Message-ID: <1194192346.607761.53950@k35g2000prh.googlegroups.com>
References: <pan.2007.11.03.05.36.10.189463@invalid.nospam>
   <1194111704.681733.235480@q3g2000prf.googlegroups.com>
   <pan.2007.11.04.01.56.51.934886@invalid.nospam>
   <WaSdnXmqr5pBKbDanZ2dnUVZ_oytnZ2d@bright.net>
NNTP-Posting-Host: 71.113.61.183
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1194192347 26578 127.0.0.1 (4 Nov 2007 16:05:47 GMT)

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 4 Nov 2007 16:05:47 +0000 (UTC)
In-Reply-To: <WaSdnXmqr5pBKbDanZ2dnUVZ_oytnZ2d@bright.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.9)
Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k35g2000prh.googlegroups.com; posting-host=71.113.61.183;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14571

On Nov 4, 4:02 am, Scott <acepi...@bloomer.net> wrote:
> Now I'm confused...doesn't Tau (Time Constant) = 1.1RC, hence 1 farad
> and 1 ohm would give a time constant of 1.1?  Yes, it's only 6AM, but am
> I missing something?

No, the time constant of a resistance and capacitance is exactly R*C.
The time constant of a resistance and inductance is exactly L/R.

If you want to know the time at which something special happens in an
RC exponential decay, you may have to use the formula:  v(t) =
v(0)*(e^(-t/RC)) (or a variation of that which accounts for the RC
changing from one voltage to a different one).  So, for example, in a
555 one-shot timer circuit where the capacitor starts at (essentially)
zero volts and charges to 2/3 of the power supply voltage, we want to
find t such that e^(-t/RC) = 1/3, and that will be when t=1.0986... *
RC -- or sensibly t = 1.1*RC.  And that likely is where you're
thinking of the 1.1 factor from.  That's not the RC time constant;
it's the time period of a 555 one-shot timer.

Cheers,
Tom




From 8941576826753063274
X-Google-Thread: fc2a5,65ed45ebaf467a26
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-02!sn-xt-sjc-06!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: tuned circuit, anyone?
Date: Sun, 4 Nov 2007 10:13:11 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13is2t9s8lk3oab@corp.supernews.com>
References: <pan.2007.11.03.05.36.10.189463@invalid.nospam>
<1194111704.681733.235480@q3g2000prf.googlegroups.com>
<pan.2007.11.04.01.56.51.934886@invalid.nospam>
<WaSdnXmqr5pBKbDanZ2dnUVZ_oytnZ2d@bright.net>
<1194192346.607761.53950@k35g2000prh.googlegroups.com>
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X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 11
Xref: g2news1.google.com rec.radio.amateur.homebrew:14572

I knew a fellow who had a bank of 1700 amp hour batteries (2 volt cells in series). he dropped a crescent wrench across the terminals and it started spttiong out molten BB sized pellets. He dove for cover and when he finally recovered, he discovered the crescent wrench had disintegrated, and he had pellet sized holes melted into his jacket.

This will be great delight when we can do the same thing with capacitors.

Colin K7FM

From 8427012996007104874
X-Google-Thread: fc2a5,ea19abc7aff770db
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!newscon02.news.prodigy.net!prodigy.net!wn11feed!worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!7bd46aa5!not-for-mail
From: "numeric" <numeric@att.net>
Newsgroups: rec.radio.amateur.homebrew
References: <FgTWi.46775$kj1.28571@bgtnsc04-news.ops.worldnet.att.net> <1194067327.470997.311770@q3g2000prf.googlegroups.com>
Subject: Re: Looking for best pre-amp RF device, for HF
Lines: 95
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Message-ID: <vloXi.330532$ax1.51475@bgtnsc05-news.ops.worldnet.att.net>
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X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1194201563 0cbee44e927f42e812901f0bd7b01958 (Sun, 04 Nov 2007 18:39:23 GMT)
NNTP-Posting-Date: Sun, 04 Nov 2007 18:39:23 GMT
Organization: AT&T Worldnet
Date: Sun, 04 Nov 2007 18:39:23 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:14573

"K7ITM" <k7itm@msn.com> wrote in message news:1194067327.470997.311770@q3g2000prf.googlegroups.com...
> On Nov 2, 10:01 pm, "numeric" <nume...@att.net> wrote:

> > Looking for a transistor suggestion, for an RF receive pre-amplifier to
> > cover 10Hz to about 60Mhz. So far, I have found a pair of 2N5109B
bipolar
> > transistors, which work ok in a grounded base push-pull design. These
> > transistors provide a gain of about 12db over an input voltage range of
1
> > microvolt or less to over 4 volts. These transistors were designed many
> > years ago; hopefully better transistors now exist which can provide
superior
> > linearity and better isolation form input to output. In addition, a
spice
> > model must be available.
> >
> > Thanks.
>
> Some of the best transistors for that sort of application are those
> designed for CATV amplifier service, where low distortion and low
> noise are important. Careful and creative circuit design can help a
> lot, too.
>
> Your 4V input suggests you get 16V out at a gain of 12dB. Is that all
> at 50 ohms, and RMS? If so, that's about five watts output.
>
> Have you measured IIP3 for your circuit? If so, what sort of
> performance do you get? What sort of noise figure? Can you share
> more details about the circuit?
>
> Do you really mean input-to-output isolation, or output-to-input
> isolation? Normally, I'd consider +12dB in the forward direction to
> be poor "isolation" but in a direction I didn't really want isolation
> anyway--I want gain that way. You should be able in a push-pull
> circuit to add parts in a cross-coupling manner to lower the output-to-
> input isolation considerably, if that's what you are after. You can
> also run each side cascode (or in your case more literally, grounded-
> base into grounded-base...), and that can help the linearity and noise
> (as the input stage will run at lower voltage drop and thus run
> cooler), as well as the isolation.
>
> I asked here not all that long ago about ideas for a low-gain, low-
> noise preamp with high IIP3 (and of course even higher OIP3) -- my
> mention of +55dBm as an IIP3 goal met with some disbelief (and one
> very respected suggestion for a way it could be done with some parts
> no longer readily available), but my thought is that it should be
> possible, given a fairly high power dissipation. Some of the modern
> op amps are getting close to being able to do it, at least through HF
> (30MHz); not to 5 watts output though. Not sure why you need that in
> a receiver. ;-)

Thanks for the CATV transistor suggestion. Getting data for RF transistors
should be easy, but after searching the Internet, the ARRL handbook, QST and
other sources it's proven elusive. Part of the problem is companies that
made transistors, such as Motorola, no longer make these types of devices;
they sold the part of the company that made all the good stuff.

Quickly answering your questions:

The design goal for the RF pre-amp can provide several watts output, although if the RF path is preceded with band-pass filters, the likely hood of actually finding signals with volt magnitude levels is small.

The voltages are peak-to-peak; it's easy to set spice source parameter voltages using peak-to peak values. The isolation is from output to input. Any voltage change appearing at the output, i.e. due to mixer products, should not appear at the input (antenna port). The gain is small, yet large enough to overcome mixer and filter losses.

As previously indicated, the design is push-pull. The base is grounded for each half. The emitters are biased through a center-tapped transformer with -4volts through a 50-ohm current limiting resistor. The collector is similarly powered through a center tapped multi-winding transformer with +12 volts (actually need higher voltage to support the extreme limits). The Internet http://www.qrp.pops.net/preamp.asp has a single ended example for a "A Low Noise, High Dynamic Range Broadband RF Amp".

The design is still in the simulation stage using spice software. Linear Technology LTspice SwitcherCadIII has been particularly useful, but also used other spice simulation software. I started by simulating a design published in QST (Feb, 1993) to explore the differences between spice simulation and a proven design. The spice simulation did affirm the proven design. Any differences found, were traced to details the author left out. In addition, the spice models had to be written or find an existing model; such as the 2N5109B spice model. The transformers were simply modeled as inductors with mutual coupling. LTSpice supports a very useful mutual coupling syntax, where Kxxx L1 L2 [L3 ...] <coefficient value> for values between -1 to +1. For realistic transformers using a value of less then one, can yield low and high frequency roll-off characteristics that match real world RF transformers.

From 8562414494125375503
X-Google-Thread: fc2a5,ea19abc7aff770db
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-xxxfer.readnews.com!news-out.readnews.com!
postnews3.readnews.com!news.coretel.net!not-for-mail
From: "radiosrfun" <radiosrfun@radiosrfun.com>
Newsgroups: rec.radio.amateur.homebrew
References: <FgTWi.46775$kj1.28571@bgtnsc04-news.ops.worldnet.att.net>
<1194067327.470997.311770@q3g2000prf.googlegroups.com>
<vloXi.330532$ax1.51475@bgtnsc05-news.ops.worldnet.att.net>

Subject: Re: Looking for best pre-amp RF device, for HF
Date: Sun, 4 Nov 2007 13:52:21 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 121
Message-ID: <472e14e0$0$13404$ecde5a14@news.coretel.net>
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X-Complaints-To: abuse@coretel.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:14574

"numeric" <numeric@att.net> wrote in message
news:vloXi.330532$ax1.51475@bgtnsc05-news.ops.worldnet.att.net...
>
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> and
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>
>
>
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> coupling syntax, where Kxxx L1 L2 [L3 ...] <coefficient value> for values
> between -1 to +1. For realistic transformers using a value of less then
> one,
> can yield low and high frequency roll-off characteristics that match real
> world RF transformers.
>
>

Just a thought - even if not blending in with the scheme of the Homebrewing aspect.

There are a couple pre-amps made to sell which boast a KHz to several hundred MHz of frequency response in amplification ability. Maybe you could check them out. Hosfelt Electronics - I believe - carries them.

Also - I have some older Motorola Data Books here - if you need any info on a particular item. If nothing else, maybe get something to come close to matching.

Maybe not much help but - thought I'd toss it in.

Lou

From -5276397761330652601
X-Google-Thread: fc2a5,1ae1349271ed11cf
X-Google-Thread: 112d1e,1ae1349271ed11cf
X-Google-Attributes: gidfc2a5,gid112d1e,public,usenet
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From: "Andrew Holme" <andrew@nospam.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: VHF Super Regen
Date: Sun, 4 Nov 2007 22:08:47 -0000
Lines: 46
Message-ID: <fglfta$q3k$1$830fa7a5@news.demon.co.uk>
References: <fgkdef$b22$1$8302bc10@news.demon.co.uk>
NNTP-Posting-Host: holmea.demon.co.uk
X-Trace: news.demon.co.uk 1194214122 26740 80.177.105.226 (4 Nov 2007 22:08:42 GMT)
X-Complaints-To: abuse@demon.net

NNTP-Posting-Date: Sun, 4 Nov 2007 22:08:42 +0000 (UTC)
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X-Priority: 3
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X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:14575
sci.electronics.design:297124

"Andrew Holme" <andrew@nospam.com> wrote in message
news:fgkdef$b22$1$8302bc10@news.demon.co.uk...
> I'm playing with super-regenerative oscillators in LTSpice.
>
> My question concerns the 230XP valve VHF super-regenerative oscillator in
> this figure 8.9:
>
> http://www.holmea.demon.co.uk/temp/duplex.jpg
>
> Here's figure 8.11 from the same book:
>
> http://www.holmea.demon.co.uk/temp/iff.jpg
>
> The text reads: "the super-regenerative oscillator in figure 8.11 is a
> triode valve connected in a commonly used high-frequency circuit of the
> Hartley type which relies on the internal capacities of the valve for its
> operation." Why is it a Hartley when the tap is fed through an RFC?
>
> Does the 230XP oscillator in figure 8.9 also rely on internal valve
> capacities? How do these oscillators work? What is special about tuning
> capacitor C in figure 8.11? What is the role of the cathode chokes?
>
> I've been playing with JFET oscillator circuits in LTSpice and I can't get
> them to oscillate unless the LC network between drain and gate creates a
> phase inversion. How do these valve circuits make 0 (or 360 degrees) of
> phase shift around the loop?
>
> What is the nearest semiconductor equivalent of the above valve circuits?
> Below is a JFET oscillator with feedback from drain to gate; but no
> reliance on parasitic capacities, although I'm sure they affect the
> frequency. Is this an LC Pierce?
>
> http://www.holmea.demon.co.uk/temp/osc.asc
>
> TIA
> Andrew.
>

I'm wondering if they're actually common-grid oscillators relying on
anode-to-cathode parasitic capacitance. This circuit oscillates:

http://www.holmea.demon.co.uk/temp/osc2.gif

From 3591230859485288185
X-Google-Thread: fc2a5,be44564c6c699725
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 04 Nov 2007 16:53:52 -0600
Date: Mon, 05 Nov 2007 11:53:52 +1300
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
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Subject: Re: 811 home brew
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In-Reply-To: <1192687512.632985.164050@e9g2000prf.googlegroups.com>
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X-Antivirus-Status: Clean
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Message-ID: <472e4d7d$1@clear.net.nz>
X-Original-Trace: 5 Nov 2007 11:53:49 +1300, 121-72-9-115.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 21
X-Usenet-Provider: http://www.giganews.com
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X-AuthenticatedUsername: news10531
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mfZAFPBU/dUYvFrfmf4OaSpfyn30Me19JhTNuxHqgR4MZOBnPjr+G+bv8Q==
X-Complaints-To: abuse@clear.net.nz
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14576

pinball_wizzard_01 wrote:
> I've been playing around with tube equipment since I was 17. I'm now
> 21 and building an old school transmitter. I'm running two 811 push
> pull tube system, and the power supple is a ver impresive two 866 in
> parallel system.
>
> I'm hoping to have it finished by the spring, I have the power supply

> finished and I look forward to starting the transmitter
>

Just a query. Is there any particular reason why you are using the 866's in parallel?

Remember a half wave rectifier puts a lot more strain on your HT transformer. Perhaps though you don't have a centre tap on your secondary winding! Also if you had 4x866's in a bridge circuit you would need an awful lot of heater windings.

Many years ago I built a parallel 811A grounded grid linear amplifier which worked quite well but of course with directly heated tubes you need a really beefy filament choke!!!

Best of luck with the project and remember to always keep a hand in your pocket while playing with 1500 to 2000 volts.

Regards Cliff Wright ZL1BDA ex G3NIA

```
From 9202625636938045657
X-Google-Thread: fc2a5,65ed45ebaf467a26
X-Google-Attributes: gidfc2a5,public,usenet
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Date: Mon, 05 Nov 2007 02:07:43 +0000
From: Scott <acepilot@bloomer.net>
Reply-To:  acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: tuned circuit, anyone?
References: <pan.2007.11.03.05.36.10.189463@invalid.nospam>
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Content-Transfer-Encoding: 7bit
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X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
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oNoSm+iLH4Et2EFbmzqJe/aUBJUPdO978Dc2/TgYpLmKkL9AyhYHNDVpxP1zXw6ujbtzRvU4yUzw!
oPlEUCy3pA==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14577

Hey, I think you're right! Sucks to get old! The good news is that
I've never had to be SO precise that using RC or 1.1RC would make any
difference for me ;) Thanks for reminding me :) (The bad news is that
I'm an electronics tech by day and should have remembered that! I guess
I'm waiting for the day when I get in an argument and can say I've
forgotten more than "the other person in the argument" will ever
know!!)...Cheers!!

Scott
N0EDV

K7ITM wrote:

> On Nov 4, 4:02 am, Scott <acepi...@bloomer.net> wrote:
>
>>Now I'm confused...doesn't Tau (Time Constant) = 1.1RC, hence 1 farad
>>and 1 ohm would give a time constant of 1.1? Yes, it's only 6AM, but am
>>I missing something?
>
>
> No, the time constant of a resistance and capacitance is exactly R*C.
> The time constant of a resistance and inductance is exactly L/R.
>
> If you want to know the time at which something special happens in an
> RC exponential decay, you may have to use the formula: v(t) =
> v(0)*(e^(-t/RC)) (or a variation of that which accounts for the RC
> changing from one voltage to a different one). So, for example, in a
> 555 one-shot timer circuit where the capacitor starts at (essentially)
> zero volts and charges to 2/3 of the power supply voltage, we want to
> find t such that e^(-t/RC) = 1/3, and that will be when t=1.0986... *
> RC -- or sensibly t = 1.1*RC. And that likely is where you're
> thinking of the 1.1 factor from. That's not the RC time constant;
> it's the time period of a 555 one-shot timer.
>
> Cheers,
> Tom
>

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

From -4968124323955968495
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 04 Nov 2007 23:49:37 -0600
Newsgroups: rec.radio.amateur.homebrew
From: Mark VandeWettering <wettering@attbi.com>
Subject: Re: ARRL Homebrew Challenge
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
<pan.2007.10.29.05.42.11.596683@localhost.localdomain>
<cJCdnRoDacL9XLjanZ2dnUVZ_sSlnZ2d@bright.net>
Reply-To: mark@vandewettering.net
Message-ID: <slrnfitbnh.k03.wettering@fishtank.brainwagon.org>
User-Agent: slrn/0.9.8.1 (FreeBSD)
Date: Sun, 04 Nov 2007 23:49:37 -0600
Lines: 55
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 98.207.95.149
X-Trace: sv3-pL9+BhqhbRF2LW7ReXHM++bs15ljWhFLwlIwenosX4LIXIfNW1kpn+/wCFSa3dgOqWAxNkY8KmH6HXC!tRxpdSisUTI0wMW7KOLwFBmMuYRCx8uvO7fuw5ruFMvbTszABu0GKXAGuFzxDBE9I7aCijsYYkpF!CwfRDjo5c7OxFuwYqGuECLZWl2kCsxzeafo=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com rec.radio.amateur.homebrew:14578

On 2007-10-29, Scott <acepilot@bloomer.net> wrote:
> Part of the reason might be that building piece by piece is getting
> pretty expensive for what you end up with. For $700 or so, you can buy
> a radio that works all the HF bands plus 6, 2 and 432 with all kinds of
> features. Try homebrewing that for $700... :(Seems that most stuff
> homebrewed these days is station accessory equipment that just makes
> some task around the shack a little more convenient (I'm guilty of this
> as well). I do still hombrew all of my own antennas :)

While I agree that $700 is quite reasonable for an all-band rig, there actually _are_ people for whom $700 is an unreasonable investment in their hobby. It isn't as important for them to actually operate on every band all at once, it's more important that they find a reasonably priced entry point into the hobby.   Listening to the bands, it is sometimes hard to imagine that there are still hams who operate with a budget of less than $3000, and still manage to have fun doing so.

But more important is the simple fact is that I learn more by building than by buying. If ham radio is really more than simply a glorified Citizen's Band, we are supposed to be educating and training outselves both to serve the public and to better our own understanding of radio and the radio arts.   I think any attempt to make experimentation of that sort more accessible to the broad population of hams should be applauded.

```
     Mark KF6KYI

>
> Scott
> N0EDV
>
> geek wrote:
>> On Sun, 28 Oct 2007 20:10:27 +0000, John Tartar wrote:
>>
>>
>>>The deadline for the ARRL homebrew challenge has passed and I hear that the
>>>ARRL received 4 entries, all NO computer radios.  NONE were in the computer
>>>assisted category.  Publication is scheduled for Feb 2008 QST
>>>
>>>
>>>A Yahoo group was started to discuss developments.
>>>http://groups.yahoo.com/group/ARRLHBC/
>>>
>>>Some of the entrants have posting info about their entries there.
>>
>>
>> Four entries? This does not bode well for the hobby :-(
>>
>> IMHO, building at least some of your own stuff should be a prerequisite
>> for the license.
>>
>> Cheers,
>> --
>> Gregg
>>
>


From 8512421061245217999
X-Google-Thread: fc2a5,3472182b6d1ecadb
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-
sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: When at last you do seem to succeed...
Date: Mon, 5 Nov 2007 05:28:28 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13itvjkjtb2i0ca@corp.supernews.com>
References: <13irjr0rffs7vbe@corp.supernews.com>
<13irokn3ju8ds62@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
```

Lines: 30
Xref: g2news1.google.com rec.radio.amateur.homebrew:14579

"COLIN LAMB" <k7fm@teleport.com> wrote in message
news:13irokn3ju8ds62@corp.supernews.com...
> When the sunspots are really low, there are still radio things that can be
> done. Disassemble the old solar powered calculator you got as a freebie
> and use it to power a one transistor oscillator, using one of the many old
> odd ball crystals you have in a drawer. Then put in a plastic box an hook
> a piece of wire to it and place it outside. When the sun shines, the
> radio will transmit. The more you have, the more signals you will hear.
> You can place many around the neighborhood, if you are into dx.
>
> Since the crystal will be affected by temperature, you can calibrate the
> actual received frequency with outside temperature and impress your
> friends.
>
> Colin K7FM
>

Wow. Thanks for the ideas. Seriously though, I am taking advantage of the lull to improve my project's sensitivity and selectivity. There are still plenty of targets to aim at, and I have lots of work to do. I still pick up BBC Africa and a couple of others regularly, and that is enough to keep me quite busy. By the time sunspots pick up again, I hope to have this thing working much harder.

Take it easy... 73 and good DX.

Dave

From -8732606139390921814
X-Google-Thread: fc2a5,1ae1349271ed11cf
X-Google-Thread: 112d1e,1ae1349271ed11cf
X-Google-Attributes: gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
news.hub.org!lon-transit.news.telstra.net!lon-in.news.telstra.net!
news.telstra.net!news-server.bigpond.net.au!53ab2750!not-for-mail
From: Alan Yates <alany@ay.com.au>
Organization: +++ATH0
User-Agent: Thunderbird 1.5.0.4 (X11/20060516)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: VHF Super Regen
References: <fgkdef$b22$1$8302bc10@news.demon.co.uk>
<fglfta$q3k$1$830fa7a5@news.demon.co.uk>
In-Reply-To: <fglfta$q3k$1$830fa7a5@news.demon.co.uk>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed

Content-Transfer-Encoding: 7bit
Lines: 37
Message-ID: <AhEXi.8951$CN4.8929@news-server.bigpond.net.au>
Date: Mon, 05 Nov 2007 12:47:28 GMT
NNTP-Posting-Host: 58.172.66.22
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1194266848 58.172.66.22 (Mon, 05 Nov 2007 23:47:28 EST)
NNTP-Posting-Date: Mon, 05 Nov 2007 23:47:28 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:14580 sci.electronics.design:297212

Andrew Holme wrote:

> I'm wondering if they're actually common-grid oscillators relying on anode-to-cathode parasitic capacitance. This circuit oscillates:
>
> http://www.holmea.demon.co.uk/temp/osc2.gif

A very perplexing circuit. I'm not sure the original author of this circuit completely understood how it actually worked either! There are at least two plausible mechanisms for the RF feedback, the plate-cathode feedback from inter-element capacitances, or plate-grid feedback from the tank itself through the unmarked capacitor to the grid.

I think the feedback mainly comes from the capacitor to the grid from other side of the tank. (ie a Hartley oscillator) That cap is just a DC blocker I believe. You could probably replace V1 with a JFET and the circuit would work fine without a drain-source feedback capacitor.

The RFC in the cathode circuit is to prevent C1 from shunting the RF on the cathode. This makes the plate-cathode feedback more likely, especially as the plate circuit is floated by its own RFC. I have no idea of the properties of a CV6 tube so I can only guess what is really going on.

The cathode circuit looks very much like it is a self-quenching circuit, but the diagram below suggests it is separately quenched? This is an IFF transponder? The feedback loop is interesting, looks like reflexing to me. I'd guess the entire circuit oscillates at the quench frequency and the modulation is recovered by filtering that output?

I've always wanted to build a toy walkie talkie from a similar circuit. Super-regen on RX and AM on TX by changing the source and drain circuits on T/R.

--
Alan Yates
http://www.vk2zay.net/
The Moon is Waning Crescent (17% of Full)

From 6683002753346963021
X-Google-Thread: fc2a5,7a79560c58c365ea,start

X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!50g2000hsm.googlegroups.com!not-for-mail
From: francesco.messineo@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: BF981 classic preamp
Date: Mon, 05 Nov 2007 07:19:40 -0800
Organization: http://groups.google.com
Lines: 22
Message-ID: <1194275980.699175.14200@50g2000hsm.googlegroups.com>
NNTP-Posting-Host: 62.10.73.127
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1194275981 16820 127.0.0.1 (5 Nov 2007 15:19:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 5 Nov 2007 15:19:41 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.12) Gecko/20060216 Debian/1.7.12-1.1ubuntu2,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 50g2000hsm.googlegroups.com; posting-host=62.10.73.127;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14581

Hello,

I'm assembling a classic preamplifier with the BF-981 dual-gate mosfet. The datasheet says the best noise figure is obtained with Vg2S= 4V, Vg1S= 0V and Id=10 mA.
So I ended with a Vdd of 9V (because I had a spare 7809) and obtained 4V for Vg2 with a 68k+56k divider, Vg1= 0V through the coil of the tuned input filter, Rs first replaced with a multiturn 500 ohm trimmer to find the correct 10 mA point. Rs and the 56k to ground bypassed with 10 nF ceramic.
Easy, right?
The problem is I can't get the mosfet to drain more than 7 mA (at Rs=0 ohm). I also tried to increase slightly Vg2S by replacing the 68k with another 56k but I end with about 7.5 mA max. Bringing Vd up to 12V makes almost no difference.
Do I have a broken BF-981 (I don't have another one handy to test) or it could be a normal value spread for this device?

Thanks

Francesco IZ8DWF

From 1967874997410226537
X-Google-Thread: fc2a5,ea19abc7aff770db
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news1.google.com!postnews.google.com!z24g2000prh.googlegroups.com!not-for-mail
From: Joe <2008glk@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for best pre-amp RF device, for HF
Date: Mon, 05 Nov 2007 15:43:31 -0000
Organization: http://groups.google.com
Lines: 20
Message-ID: <1194277411.831747.235000@z24g2000prh.googlegroups.com>
References: <FgTWi.46775$kj1.28571@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: 65.40.119.180
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1194277412 7045 127.0.0.1 (5 Nov 2007 15:43:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 5 Nov 2007 15:43:32 +0000 (UTC)
In-Reply-To: <FgTWi.46775$kj1.28571@bgtnsc04-news.ops.worldnet.att.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.9) Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: z24g2000prh.googlegroups.com; posting-host=65.40.119.180;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14582

On Nov 2, 9:01 pm, "numeric" <nume...@att.net> wrote:
> Looking for a transistor suggestion, for an RF receive pre-amplifier to
> cover 10Hz to about 60Mhz. So far, I have found a pair of 2N5109B bipolar
> transistors, which work ok in a grounded base push-pull design. These
> transistors provide a gain of about 12db over an input voltage range of 1
> microvolt or less to over 4 volts. These transistors were designed many
> years ago; hopefully better transistors now exist which can provide superior
> linearity and better isolation form input to output. In addition, a spice
> model must be available.
>
> Thanks.

He did ask for a RECEIVE pre-amp, to 60mHz
Not a power amp, and not 60GHz, and you don't need 4volts for a
receive preamp

How about and MPF102 JFET in Class A
Bias it at about 8mA, and you should get ~20db power gain

From -1657681544217088037
X-Google-Thread: fc2a5,65ed45ebaf467a26
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-

ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 05 Nov 2007 11:31:55 -0600
Date: Mon, 05 Nov 2007 10:35:34 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: tuned circuit, anyone?
References: <pan.2007.11.03.05.36.10.189463@invalid.nospam>
In-Reply-To: <pan.2007.11.03.05.36.10.189463@invalid.nospam>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <-bidna0P55wWzrLanZ2dnUVZ_hSdnZ2d@web-ster.com>
Lines: 28
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-Iui7h7jKczL2fHN3ircwY+MLvfUlxBGhs4JIvYvZl8SqgMBBVMF/XJPRlQXFYq3d/yM/
gVaxy+htZPx!h/
j3khreAGTIkRvElvZ5YPzGZ9Lwfrw5EicWUomvmCtHfkj8xIZbi8RAsUuvxDigGX0ImrsDBJyL!
msk1oM3ce9eGb+Wv
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com rec.radio.amateur.homebrew:14583

Doug Smith W9WI wrote:
> Back when I was studying electronics in college in the 1970s, we were taught that a 1-Ohm resistor and a 1-Farad capacitor would create a RC circuit with a time constant of 1.1 seconds -- and that since it was physically impossible to make a 1-Farad capacitor, we would never actually see such a circuit in real life.
>
> Of course, you can now order a 1-Farad capacitor for a few bucks from Digi-Key. But they didn't stop there.
>
> On page 18 of this month's RadComm (RSGB) there is a brief item about "ultracapcitors". The devices are available in values up to 3,000 Farads.
> **3,000 Farads**. Amazing.
>
> http://www.maxwell.com/ultracapacitors/products/large-cell/bcap3000.asp
>

I believe the correct time constant for that combination is 1 second, and has been since the '30s at least.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From -2225740174402576856
X-Google-Thread: fc2a5,7a79560c58c365ea
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: David Snowdon <norway@netscape.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: BF981 classic preamp
Date: Mon, 05 Nov 2007 14:01:49 -0500
Lines: 28
Message-ID: <5p97jaFq8abvU1@mid.individual.net>
References: <1194275980.699175.14200@50g2000hsm.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
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Cancel-Lock: sha1:OuVv3h123+FEs9E3NLWyHvVklDE=
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
In-Reply-To: <1194275980.699175.14200@50g2000hsm.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:14584

The datasheets generally gives you the average values. The typical values for FETs and MOSFETs are all over the map - so I won't worry that you're not seeing the 10mA drain current. Try out your circuit, you'll probably be happy with it.

francesco.messineo@gmail.com wrote:
> Hello,
>
> I'm assembling a classic preamplifier with the BF-981 dual-gate
> mosfet. The datasheet says the best noise figure is obtained with
> Vg2S= 4V, Vg1S= 0V and Id=10 mA.
> So I ended with a Vdd of 9V (because I had a spare 7809) and obtained
> 4V for Vg2 with a 68k+56k divider, Vg1= 0V through the coil of the
> tuned input filter, Rs first replaced with a multiturn 500 ohm trimmer
> to find the correct 10 mA point. Rs and the 56k to ground bypassed
> with 10 nF ceramic.
> Easy, right?
> The problem is I can't get the mosfet to drain more than 7 mA (at Rs=0
> ohm). I also tried to increase slightly Vg2S by replacing the 68k with
> another 56k but I end with about 7.5 mA max. Bringing Vd up to 12V
> makes almost no difference.
> Do I have a broken BF-981 (I don't have another one handy to test) or
> it could be a normal value spread for this device?
>
> Thanks
>

```
> Francesco IZ8DWF
>



From -2362531273542655212
X-Google-Thread: fc2a5,ea19abc7aff770db
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k35g2000prh.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for best pre-amp RF device, for HF
Date: 5 Nov 2007 11:41:03 -0800
Organization: http://groups.google.com
Lines: 38
Message-ID: <1194284849.203009.32500@k35g2000prh.googlegroups.com>
References: <FgTWi.46775$kj1.28571@bgtnsc04-news.ops.worldnet.att.net>
   <1194277411.831747.235000@z24g2000prh.googlegroups.com>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1194291680 20020 127.0.0.1 (5 Nov 2007 19:41:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 5 Nov 2007 19:41:20 +0000 (UTC)
In-Reply-To: <1194277411.831747.235000@z24g2000prh.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.8)
Gecko/20071008 Firefox/2.0.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k35g2000prh.googlegroups.com; posting-host=192.25.142.225;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14585

On Nov 5, 7:43 am, Joe <2008...@gmail.com> wrote:
> On Nov 2, 9:01 pm, "numeric" <nume...@att.net> wrote:
>
> > Looking for a transistor suggestion, for an RF receive pre-amplifier to
> > cover 10Hz to about 60Mhz. So far, I have found a pair of 2N5109B bipolar
> > transistors, which work ok in a grounded base push-pull design. These
> > transistors provide a gain of about 12db over an input voltage range of 1
> > microvolt or less to over 4 volts.  These transistors were designed many
> > years ago; hopefully better transistors now exist which can provide superior
> > linearity and better isolation form input to output. In addition, a spice
> > model must be available.
>
> > Thanks.
>
> He did ask for a RECEIVE pre-amp, to 60mHz
> Not a power amp, and not 60GHz, and you don't need 4volts for a
> receive preamp
>
> How about and MPF102 JFET in Class A
```

> Bias it at about 8mA, and you should get ~20db power gain

Because there are those of us who, for a "receive preamp", would very much like to get IIP3 greater than +50dBm, and ideally up around +60dBm. It may only need to handle 0dBm or +10dBm signals, but it does need to have very low distortion. Not going to happen with an MPF102, at least not without an exceptionally creative circuit around it. I'm not quite sure why the OP wants a preamp in the first place, since noise figure on HF is generally not that much of an issue. It may be in part to get isolation between the mixer and the antenna so he doesn't radiate the LO signal, but that can be done with tuned circuits at least for narrowband radios. I have slightly different reasons for wanting a modest gain very low distortion amplifier like that. In any event, it would be a nice circuit to have in my "bag of tricks."

Cheers,
Tom

```
From -1031313955955653173
X-Google-Thread: fc2a5,1ae1349271ed11cf
X-Google-Thread: 112d1e,1ae1349271ed11cf
X-Google-Attributes: gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news2.google.com!news.glorb.com!peer1.news.newnet.co.uk!194.159.246.34.MISMATCH!peer-uk.news.demon.net!kibo.news.demon.net!news.demon.co.uk!demon!not-for-mail
From: "Andrew Holme" <andrew@nospam.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: VHF Super Regen
Date: Mon, 5 Nov 2007 19:47:00 -0000
Lines: 21
Message-ID: <fgnrvd$3mj$1$8302bc10@news.demon.co.uk>
References: <fgkdef$b22$1$8302bc10@news.demon.co.uk> <fglfta$q3k$1$830fa7a5@news.demon.co.uk> <AhEXi.8951$CN4.8929@news-server.bigpond.net.au>
NNTP-Posting-Host: holmea.demon.co.uk
X-Trace: news.demon.co.uk 1194292013 3795 80.177.105.226 (5 Nov 2007 19:46:53 GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Mon, 5 Nov 2007 19:46:53 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-Priority: 3
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:14586 sci.electronics.design:297291
```

"Alan Yates" <alany@ay.com.au> wrote in message news:AhEXi.8951$CN4.8929@news-server.bigpond.net.au...

[snip]

> The cathode circuit looks very much like it is a self-quenching circuit,
> but the diagram below suggests it is separately quenched? This is an IFF
> transponder? The feedback loop is interesting, looks like reflexing to
> me. I'd guess the entire circuit oscillates at the quench frequency and
> the modulation is recovered by filtering that output?

It's an IFF responder and it's separately quenched. When lit by radar, it emits a pulse of characteristic duration and much stronger than a passive reflection.

The book also contains examples of the same oscillator circuit but without the cathode choke i.e. grounded cathode.

From -9147586788710506715
X-Google-Thread: fc2a5,1ae1349271ed11cf
X-Google-Thread: 112d1e,1ae1349271ed11cf
X-Google-Attributes: gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
newsfeeds.ihug.co.nz!lust.ihug.co.nz!ihug.co.nz!not-for-mail
From: Barry Lennox <bt.l.barryl@spamgourmet.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: VHF Super Regen
Date: Tue, 06 Nov 2007 09:33:38 +1300
Organization: Slingshot Internet
Lines: 48
Message-ID: <r1vui31gm3fph0hluhlq85b3v082o9vgpk@4ax.com>
References: <fgkdef$b22$1$8302bc10@news.demon.co.uk>
NNTP-Posting-Host: news.tranzpeer.net
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: lust.ihug.co.nz 1194294810 4790 202.180.64.19 (5 Nov 2007 20:33:30 GMT)
X-Complaints-To: abuse@ihug.co.nz
NNTP-Posting-Date: Mon, 5 Nov 2007 20:33:30 +0000 (UTC)
X-Newsreader: Forte Free Agent 1.93/32.576 English (American)
Cache-Post-Path: ftpsrv1!unknown@124-197-1-208.callplus.net.nz
X-Cache: nntpcache 2.3.3 (see http://www.nntpcache.org/)
Xref: g2news1.google.com rec.radio.amateur.homebrew:14587
sci.electronics.design:297304

On Sun, 4 Nov 2007 12:20:37 -0000, "Andrew Holme" <andrew@nospam.com>
wrote:

>I'm playing with super-regenerative oscillators in LTSpice.
>

>My question concerns the 230XP valve VHF super-regenerative oscillator in
>this figure 8.9:
>
>http://www.holmea.demon.co.uk/temp/duplex.jpg
>
>Here's figure 8.11 from the same book:
>
>http://www.holmea.demon.co.uk/temp/iff.jpg
>
>The text reads: "the super-regenerative oscillator in figure 8.11 is a
>triode valve connected in a commonly used high-frequency circuit of the
>Hartley type which relies on the internal capacities of the valve for its
>operation." Why is it a Hartley when the tap is fed through an RFC?
>
>Does the 230XP oscillator in figure 8.9 also rely on internal valve
>capacities? How do these oscillators work? What is special about tuning
>capacitor C in figure 8.11? What is the role of the cathode chokes?
>
>I've been playing with JFET oscillator circuits in LTSpice and I can't get
>them to oscillate unless the LC network between drain and gate creates a
>phase inversion. How do these valve circuits make 0 (or 360 degrees) of
>phase shift around the loop?
>
>What is the nearest semiconductor equivalent of the above valve circuits?
>Below is a JFET oscillator with feedback from drain to gate; but no reliance
>on parasitic capacities, although I'm sure they affect the frequency. Is
>this an LC Pierce?

Aha, that came form the unique (and now quite rare) book "Super-Regen receivers" by JR Whitehead.

Without knowing what the RFC value is, it's hard to say what type of oscillator it is.

There were thousands of super-regens built in the 1960's and 70's using transistors, often OC170 and OC171, for radio control, door openers, alarms, early CB sets and the like. I have a lot of schematics somewhere.

There has been some more recent work done on super-regen receivers,
One was in QEX Sept-Oct 2000.

Barry

From 6420141233525765710
X-Google-Thread: fc2a5,ea19abc7aff770db
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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From: "numeric" <numeric@att.net>

Newsgroups: rec.radio.amateur.homebrew
References: <FgTWi.46775$kj1.28571@bgtnsc04-news.ops.worldnet.att.net>
<1194277411.831747.235000@z24g2000prh.googlegroups.com>
<1194284849.203009.32500@k35g2000prh.googlegroups.com>
Subject: Re: Looking for best pre-amp RF device, for HF
Lines: 34
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Message-ID: <itMXi.54788$kj1.2309@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: e7588da978c3765c37b397406e4505f4
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X-Trace: bgtnsc04-news.ops.worldnet.att.net 1194300366
e7588da978c3765c37b397406e4505f4 (Mon, 05 Nov 2007 22:06:06 GMT)
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Organization: AT&T Worldnet
Date: Mon, 05 Nov 2007 22:06:06 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:14588

"K7ITM" <k7itm@msn.com> wrote in message
news:1194284849.203009.32500@k35g2000prh.googlegroups.com...

> > How about and MPF102 JFET in Class A
> > Bias it at about 8mA, and you should get ~20db power gain
>
> Because there are those of us who, for a "receive preamp", would very much like to get IIP3 greater than +50dBm, and ideally up around +60dBm. It may only need to handle 0dBm or +10dBm signals, but it does need to have very low distortion. Not going to happen with an MPF102, at least not without an exceptionally creative circuit around it. I'm not quite sure why the OP wants a preamp in the first place, since noise figure on HF is generally not that much of an issue. It may be in part to get isolation between the mixer and the antenna so he doesn't radiate the LO signal, but that can be done with tuned circuits at least for narrowband radios. I have slightly different reasons for wanting a modest gain very low distortion amplifier like that. In any event, it would be a nice circuit to have in my "bag of tricks."

You are correct, the pre-amp is needed to get isolation between the mixer and antenna. I want a very high dynamic range and broadband design, as wide as possible to cover the LF to 60Mhz range. I have simulated several mixers, including H-mode mixers; they all disturb the antenna input unless a good preamp is used. The low noise figure is needed mainly for the VHF range and yet the performance comes free in the LF to HF range.

Although I haven't completed reviewing all suggestions, I do appreciate the comments from all.

Thank You.

```
From 3951099618312617906
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
i38g2000prf.googlegroups.com!not-for-mail
From:  nx7u <nx7u@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: BF981 classic preamp
Date: Mon, 05 Nov 2007 16:55:18 -0800
Organization: http://groups.google.com
Lines: 37
Message-ID: <1194310518.431077.159750@i38g2000prf.googlegroups.com>
References: <1194275980.699175.14200@50g2000hsm.googlegroups.com>
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Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i38g2000prf.googlegroups.com; posting-host=70.176.52.132;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14589
```

A couple of things come to mind...
The best noise figure also has another parameter: Vds=10V. It might take that much to push 10mA through the channel.
One other thing to remember is that as Rs increases, Vg1s and Vg2s decrease, which tends to further pinch the channel and reduce Id.
I'd try Vd=12V and Rs=200ohms, and use either a 10k resistor or (better) an RF Choke between g1 and s...that will force Vg1s=0 no matter what the bias condition. That will set Vs=2V, so then an equal-resistor divider from Vd gives 6V which is Vg2s=4V.
If you really can't pull 10mA then it might be worth trying out anyway (as previously suggested), but I'd suspect the device is no good.

On Nov 5, 8:19 am, francesco.messi...@gmail.com wrote:

> Hello,
>
> I'm assembling a classic preamplifier with the BF-981 dual-gate
> mosfet. The datasheet says the best noise figure is obtained with
> Vg2S= 4V, Vg1S= 0V and Id=10 mA.
> So I ended with a Vdd of 9V (because I had a spare 7809) and obtained
> 4V for Vg2 with a 68k+56k divider, Vg1= 0V through the coil of the

> tuned input filter, Rs first replaced with a multiturn 500 ohm trimmer
> to find the correct 10 mA point. Rs and the 56k to ground bypassed
> with 10 nF ceramic.
> Easy, right?
> The problem is I can't get the mosfet to drain more than 7 mA (at Rs=0
> ohm). I also tried to increase slightly Vg2S by replacing the 68k with
> another 56k but I end with about 7.5 mA max. Bringing Vd up to 12V
> makes almost no difference.
> Do I have a broken BF-981 (I don't have another one handy to test) or
> it could be a normal value spread for this device?
>
> Thanks
>
> Francesco IZ8DWF

From 7333157118889126597
X-Google-Thread: fc2a5,7a79560c58c365ea
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z9g2000hsf.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: BF981 classic preamp
Date: Mon, 05 Nov 2007 18:20:01 -0800
Organization: http://groups.google.com
Lines: 46
Message-ID: <1194315601.863777.322370@z9g2000hsf.googlegroups.com>
References: <1194275980.699175.14200@50g2000hsm.googlegroups.com>
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NNTP-Posting-Date: Tue, 6 Nov 2007 02:20:02 +0000 (UTC)
In-Reply-To: <1194275980.699175.14200@50g2000hsm.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.9)
Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: z9g2000hsf.googlegroups.com; posting-host=192.25.142.225;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14590

On Nov 5, 7:19 am, francesco.messi...@gmail.com wrote:
> Hello,
>
> I'm assembling a classic preamplifier with the BF-981 dual-gate
> mosfet. The datasheet says the best noise figure is obtained with
> Vg2S= 4V, Vg1S= 0V and Id=10 mA.

> So I ended with a Vdd of 9V (because I had a spare 7809) and obtained
> 4V for Vg2 with a 68k+56k divider, Vg1= 0V through the coil of the
> tuned input filter, Rs first replaced with a multiturn 500 ohm trimmer
> to find the correct 10 mA point. Rs and the 56k to ground bypassed
> with 10 nF ceramic.
> Easy, right?
> The problem is I can't get the mosfet to drain more than 7 mA (at Rs=0
> ohm). I also tried to increase slightly Vg2S by replacing the 68k with
> another 56k but I end with about 7.5 mA max. Bringing Vd up to 12V
> makes almost no difference.
> Do I have a broken BF-981 (I don't have another one handy to test) or
> it could be a normal value spread for this device?
>
> Thanks
>
> Francesco IZ8DWF

Hi Francesco,

The data sheet I was able to quickly find suggests optimum noise
figure at a particular Vds, Vg2s, and Id, but does not mention the
Vg1s required to achieve that Id. I suppose that for your particular
part, you may need to run gate 1 slightly positive with respect to the
source to get the 10mA. However, I doubt that there will be a
significant advantage to doing so with respect to the noise figure.
It will almost certainly be more important to adjust the input
matching to achieve lowest noise figure.

The data sheet I found was old and only seems to have summary data. I
looked on the NXP web site, and found what seems to be a similar part,
the BF991. The data sheet for it is complete, but it seems still very
sparse. I am used to data sheets for low noise RF amplifier
transistors that include graphs of things like noise figure versus
input matching at some particular bias, and possibly for two or three
bias conditions. It was a disappointment to not see something like
that for the BF9x1 parts, though they may be good parts anyway.

Cheers,
Tom

From 2405399467564324745
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d55g2000hsg.googlegroups.com!not-for-mail
From: francesco.messineo@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: BF981 classic preamp
Date: Tue, 06 Nov 2007 00:44:48 -0800
Organization: http://groups.google.com

Lines: 46
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Complaints-To: groups-abuse@google.com
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posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14591

Hello all and thanks for all the answers,

as I already said, I tried to raise Vd up to 12V and Id almost doesn't change, as Vg2s remains constant.
g1 is always at 0V in this design since there's an inductor to ground (part of a parallel resonant LC), so actually Vg1s is slightly negative, less than -0.1V with a 15 ohm Rs. I doubt this really affects the Id. I actually tried to keep Vg2s at 0V and change Vg1s and what I found is a weaker effect on Id with respect to Vg2s, with Vg2s=0V and Vg1s=4V the Id was less than 3mA. Clearly the two gates aren't interchangeable.

On 6 Nov, 03:20, K7ITM <k7...@msn.com> wrote:

>
> Hi Francesco,
>
> The data sheet I was able to quickly find suggests optimum noise figure at a particular Vds, Vg2s, and Id, but does not mention the Vg1s required to achieve that Id. I suppose that for your particular part, you may need to run gate 1 slightly positive with respect to the source to get the 10mA. However, I doubt that there will be a significant advantage to doing so with respect to the noise figure. It will almost certainly be more important to adjust the input matching to achieve lowest noise figure.
>

righ, but on the datasheet there's no data about the right source impedance for best NF.

> The data sheet I found was old and only seems to have summary data. I looked on the NXP web site, and found what seems to be a similar part, the BF991. The data sheet for it is complete, but it seems still very sparse. I am used to data sheets for low noise RF amplifier

> transistors that include graphs of things like noise figure versus
> input matching at some particular bias, and possibly for two or three
> bias conditions. It was a disappointment to not see something like
> that for the BF9x1 parts, though they may be good parts anyway.

I'll have a look at the BF991 datasheet too, thanks for hint.
I have actually other spare mosfets like the BF960 and BF966, but they
seems worse than the BF981.

Thanks again
Francesco IZ8DWF

```
From -8898089078991533567
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
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From: "W3JDR" <joe@roccis.com>
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<cJCdnRoDacL9XLjanZ2dnUVZ_sSlnZ2d@bright.net>
<slrnfitbnh.k03.wettering@fishtank.brainwagon.org>
Subject: Re: ARRL Homebrew Challenge
Lines: 76
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Date: Tue, 06 Nov 2007 10:14:31 GMT
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NNTP-Posting-Date: Tue, 06 Nov 2007 05:14:31 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:14592
```

>Listening to the bands, it is sometimes hard to
>imagine that there are still hams who operate with a budget of less than
>$3000, and still manage to have fun doing so.

You're joking, right? I think if you took a survey of 25 or so hams here (or
in most other ham venues for that matter), you'd have a very difficult time
finding even a few who have anything close to $3,000 invested in their
hobby. Pile on me if I'm wrong guys, but pile on if I'm right too.

Joe
W3JDR

"Mark VandeWettering" <wettering@attbi.com> wrote in message
news:slrnfitbnh.k03.wettering@fishtank.brainwagon.org...
> On 2007-10-29, Scott <acepilot@bloomer.net> wrote:
>> Part of the reason might be that building piece by piece is getting
>> pretty expensive for what you end up with. For $700 or so, you can buy
>> a radio that works all the HF bands plus 6, 2 and 432 with all kinds of
>> features. Try homebrewing that for $700... :(Seems that most stuff
>> homebrewed these days is station accessory equipment that just makes
>> some task around the shack a little more convenient (I'm guilty of this
>> as well). I do still hombrew all of my own antennas :)
>
> While I agree that $700 is quite reasonable for an all-band rig, there
> actually _are_ people for whom $700 is an unreasonable investment in their
> hobby. It isn't as important for them to actually operate on every band
> all at once, it's more important that they find a reasonably priced entry
> point into the hobby.   Listening to the bands, it is sometimes hard to
> imagine that there are still hams who operate with a budget of less than
> $3000, and still manage to have fun doing so.
>
> But more important is the simple fact is that I learn more by building
> than by buying. If ham radio is really more than simply a glorified
> Citizen's Band, we are supposed to be educating and training outselves
> both to serve the public and to better our own understanding of radio and
> the radio arts.   I think any attempt to make experimentation of that
> sort more accessible to the broad population of hams should be applauded.
>
> Mark KF6KYI
>
>>
>> Scott
>> N0EDV
>>
>> geek wrote:
>>> On Sun, 28 Oct 2007 20:10:27 +0000, John Tartar wrote:
>>>
>>>
>>>>The deadline for the ARRL homebrew challenge has passed and I hear that
>>>>the
>>>>ARRL received 4 entries, all NO computer radios. NONE were in the
>>>>computer
>>>>assisted category. Publication is scheduled for Feb 2008 QST
>>>>
>>>>
>>>>A Yahoo group was started to discuss developments.
>>>>http://groups.yahoo.com/group/ARRLHBC/
>>>>
>>>>Some of the entrants have posting info about their entries there.

>>>
>>>
>>> Four entries? This does not bode well for the hobby :-(
>>>
>>> IMHO, building at least some of your own stuff should be a prerequisite
>>> for the license.
>>>
>>> Cheers,
>>> __
>>> Gregg
>>>
>>

From -5805435108129104430
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
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nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 06 Nov 2007 06:17:12 -0600
Date: Tue, 06 Nov 2007 12:17:08 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
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MIME-Version: 1.0
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Subject: Re: ARRL Homebrew Challenge
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
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Content-Transfer-Encoding: 7bit
Message-ID: <Zv-dndzOadzVxq3anZ2dnUVZ_vGinZ2d@bright.net>
Lines: 101
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NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-BL3XWCVmXENyDv9+6cwmG5SO/
D0oV6H9HvCNjyTCe2yc2y9sfRGBbwzyjezsuDLleRgGBIxM2wp3Q/G!Ba/att0Gb6Lok2BQnRCMSfhd/
npUMxjSMnyyRoI4kcNUe7FlWJ2tp+n7lerGXY+VD9nfkKAghdxQ!/oFrF9Itug==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35

Xref: g2news1.google.com rec.radio.amateur.homebrew:14593

I'm guessing I have somewhere around $3000 invested over the 25 years in the hobby...let me do some rough math...Kenwood 520S $300, Kenwood 690SAT $1500, Yaesu 857 $600, Astron 35A power supply $250, MFJ 1278 Multimode Controller $300, Cushcraft A50-5S $150...am I there yet? Countless PL-259, N connectors, LMR400 coax, etc. BUT, I certainly know anyone can get by with a lot less investment. The key is investment over time. If I take my $3000 over 25 years, it only averages $120/year...pretty cheap for a hobby. I fly as another hobby and I can tell you that it costs more than $120 a year! ;)

Scott
N0EDV

W3JDR wrote:
>>Listening to the bands, it is sometimes hard to
>>imagine that there are still hams who operate with a budget of less than
>>$3000, and still manage to have fun doing so.
>
> ---
>
> You're joking, right? I think if you took a survey of 25 or so hams here (or
> in most other ham venues for that matter), you'd have a very difficult time
> finding even a few who have anything close to $3,000 invested in their
> hobby. Pile on me if I'm wrong guys, but pile on if I'm right too.
>
> Joe
> W3JDR
>
>
>
> "Mark VandeWettering" <wettering@attbi.com> wrote in message
> news:slrnfitbnh.k03.wettering@fishtank.brainwagon.org...
>
>>On 2007-10-29, Scott <acepilot@bloomer.net> wrote:
>>
>>>Part of the reason might be that building piece by piece is getting
>>>pretty expensive for what you end up with. For $700 or so, you can buy
>>>a radio that works all the HF bands plus 6, 2 and 432 with all kinds of
>>>features. Try homebrewing that for $700... :(Seems that most stuff
>>>homebrewed these days is station accessory equipment that just makes
>>>some task around the shack a little more convenient (I'm guilty of this
>>>as well). I do still hombrew all of my own antennas :)
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>>While I agree that $700 is quite reasonable for an all-band rig, there
>>actually _are_ people for whom $700 is an unreasonable investment in their
>>hobby. It isn't as important for them to actually operate on every band
>>all at once, it's more important that they find a reasonably priced entry
>>point into the hobby.   Listening to the bands, it is sometimes hard to
>>imagine that there are still hams who operate with a budget of less than
>>$3000, and still manage to have fun doing so.
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>>But more important is the simple fact is that I learn more by building
>>than by buying. If ham radio is really more than simply a glorified
>>Citizen's Band, we are supposed to be educating and training outselves
>>both to serve the public and to better our own understanding of radio and
>>the radio arts.   I think any attempt to make experimentation of that
>>sort more accessible to the broad population of hams should be applauded.
>>
>>Mark KF6KYI
>>
>>
>>>Scott
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>>>geek wrote:
>>>
>>>>On Sun, 28 Oct 2007 20:10:27 +0000, John Tartar wrote:
>>>>
>>>>
>>>>
>>>>>The deadline for the ARRL homebrew challenge has passed and I hear that
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>>>>>ARRL received 4 entries, all NO computer radios. NONE were in the
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>>>>>
>>>>>A Yahoo group was started to discuss developments.
>>>>>http://groups.yahoo.com/group/ARRLHBC/
>>>>>
>>>>>Some of the entrants have posting info about their entries there.
>>>>
>>>>
>>>>Four entries? This does not bode well for the hobby :-(
>>>>
>>>>IMHO, building at least some of your own stuff should be a prerequisite
>>>>for the license.
>>>>
>>>>Cheers,
>>>>__
>>>>Gregg
>>>>
>>>
>
>

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

From -5854516854784410643

```
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k79g2000hse.googlegroups.com!not-for-
mail
From:  K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL Homebrew Challenge
Date: Tue, 06 Nov 2007 06:38:59 -0800
Organization: http://groups.google.com
Lines: 28
Message-ID: <1194359939.181649.113960@k79g2000hse.googlegroups.com>
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
   <pan.2007.10.29.05.42.11.596683@localhost.localdomain>
   <cJCdnRoDacL9XLjanZ2dnUVZ_sSlnZ2d@bright.net>
   <slrnfitbnh.k03.wettering@fishtank.brainwagon.org>
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NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
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X-Trace: posting.google.com 1194359939 31532 127.0.0.1 (6 Nov 2007 14:38:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 6 Nov 2007 14:38:59 +0000 (UTC)
In-Reply-To: <b8XXi.4934$lx.1650@trndny05>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.9)
Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k79g2000hse.googlegroups.com; posting-host=192.25.142.225;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14594

On Nov 6, 2:14 am, "W3JDR" <j...@roccis.com> wrote:
> >Listening to the bands, it is sometimes hard to
> >imagine that there are still hams who operate with a budget of less than
> >$3000, and still manage to have fun doing so.
>
> ---------------------------------------------------
>
> You're joking, right? I think if you took a survey of 25 or so hams here (or
> in most other ham venues for that matter), you'd have a very difficult time
> finding even a few who have anything close to $3,000 invested in their
> hobby. Pile on me if I'm wrong guys, but pile on if I'm right too.
>
> Joe
> W3JDR

That brought back a beautiful image from when I first got my license.
A couple of other teens in the same town got their licenses at the
same time.  One, in particular, was on limited means.  Very limited
means.  I remember going over to his house and being very happy for
him that he was working all over the place on 15M CW, using a little
one-tube regen receiver, parts scrounged from somewhere.  And I see no
```

reason you can't do the same sort of thing today, on CW at least.
Both the receiver and the transmitter can be simple and still be
effective.

Cheers,
Tom

```
From -7147331599012947029
X-Google-Thread: fc2a5,7a79560c58c365ea
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!57g2000hsv.googlegroups.com!not-for-
mail
From:  K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: BF981 classic preamp
Date: Tue, 06 Nov 2007 06:52:49 -0800
Organization: http://groups.google.com
Lines: 63
Message-ID: <1194360769.174010.315610@57g2000hsv.googlegroups.com>
References: <1194275980.699175.14200@50g2000hsm.googlegroups.com>
   <1194315601.863777.322370@z9g2000hsf.googlegroups.com>
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Mime-Version: 1.0
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 6 Nov 2007 14:52:49 +0000 (UTC)
In-Reply-To: <1194338688.533826.176830@d55g2000hsg.googlegroups.com>
User-Agent: G2/1.0
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Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 57g2000hsv.googlegroups.com; posting-host=192.25.142.225;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14595
```

On Nov 6, 12:44 am, francesco.messi...@gmail.com wrote:
> Hello all and thanks for all the answers,
>...
>
> On 6 Nov, 03:20, K7ITM <k7...@msn.com> wrote:
>
...
> > It will almost certainly be more important to adjust the input
> > matching to achieve lowest noise figure.
>
> righ, but on the datasheet there's no data about the right source
> impedance for best NF.

Hello Francesco,

But I suppose that will be a problem no matter whether Id is 10mA or 7mA. ;-)

>
> > The data sheet I found was old and only seems to have summary data. I looked on the NXP web site, and found what seems to be a similar part, the BF991. The data sheet for it is complete, but it seems still very sparse. I am used to data sheets for low noise RF amplifier transistors that include graphs of things like noise figure versus input matching at some particular bias, and possibly for two or three bias conditions. It was a disappointment to not see something like that for the BF9x1 parts, though they may be good parts anyway.
>
> I'll have a look at the BF991 datasheet too, thanks for hint.
> I have actually other spare mosfets like the BF960 and BF966, but they
> seems worse than the BF981.

At least the BF991 data sheet lists a recommended source impedance for optimal noise figure. I would guess that the BF981 will be quite similar. Of course, it will always be best to adjust for lowest noise figure.

I am not surprised that going between 9V and 10V made very little difference in the drain current. You certainly must be operating there in the "saturation" region of the FET (not to be confused with saturation in a bipolar...), where Id is very nearly independent of Vds, for constant gate voltages. Also, if you have a source resistor, that provides negative DC feedback and will stabilize the drain current--if the current decreases, the voltage drop across that resistor decreases, and Vg1s (and Vg2s) become more positive, thus tending to keep Id even more constant than it would otherwise be.

I would not do it myself, but if you feel a need to get Id up to 10mA, you could remove the "cold" end of the inductor from ground, bypass it to ground with a small capacitor, and apply a slightly positive voltage from a voltage divider. I think it is much better to just go with the 7mA or whatever it turns out to be for your particular part, and concentrate on input matching adjustments.

You didn't mention what frequency this preamp is for, did you? I am curious--is it for 144MHz or 440MHz or some other band?

Cheers,
Tom

From -6351915676774412581

X-Google-Thread: fc2a5,7a79560c58c365ea
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!57g2000hsv.googlegroups.com!not-for-mail
From: francesco.messineo@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: BF981 classic preamp
Date: Tue, 06 Nov 2007 08:05:03 -0800
Organization: http://groups.google.com
Lines: 79
Message-ID: <1194365103.193907.24490@57g2000hsv.googlegroups.com>
References: <1194275980.699175.14200@50g2000hsm.googlegroups.com>
   <1194315601.863777.322370@z9g2000hsf.googlegroups.com>
   <1194338688.533826.176830@d55g2000hsg.googlegroups.com>
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NNTP-Posting-Host: 62.10.72.162
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1194365103 16155 127.0.0.1 (6 Nov 2007 16:05:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 6 Nov 2007 16:05:03 +0000 (UTC)
In-Reply-To: <1194360769.174010.315610@57g2000hsv.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.12) Gecko/20060216 Debian/1.7.12-1.1ubuntu2,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 57g2000hsv.googlegroups.com; posting-host=62.10.72.162;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14596

Hello Tom,

On 6 Nov, 15:52, K7ITM <k7...@msn.com> wrote:

> ...
> > > It will almost certainly be more important to adjust the input
> > > matching to achieve lowest noise figure.
>
> > righ, but on the datasheet there's no data about the right source
> > impedance for best NF.
>
> Hello Francesco,
>
> But I suppose that will be a problem no matter whether Id is 10mA or
> 7mA. ;-)

yes indeed, unfortunately I don't have a NF test equipment to play
with, so I can't experiment too much.

>
> > I'll have a look at the BF991 datasheet too, thanks for hint.

> > I have actually other spare mosfets like the BF960 and BF966, but they
> > seems worse than the BF981.
>
> At least the BF991 data sheet lists a recommended source impedance for
> optimal noise figure. I would guess that the BF981 will be quite
> similar. Of course, it will always be best to adjust for lowest noise
> figure.

having a way to measure it, of course.

>
> I am not surprised that going between 9V and 10V made very little
> difference in the drain current. You certainly must be operating
> there in the "saturation" region of the FET (not to be confused with
> saturation in a bipolar...), where Id is very nearly independent of
> Vds, for constant gate voltages. Also, if you have a source resistor,
> that provides negative DC feedback and will stabilize the drain
> current--if the current decreases, the voltage drop across that
> resistor decreases, and Vg1s (and Vg2s) become more positive, thus
> tending to keep Id even more constant than it would otherwise be.

That's right, I just checked what happened rising the Vd because it
was easy to do, and checking theory always helps.

>
> I would not do it myself, but if you feel a need to get Id up to 10mA,
> you could remove the "cold" end of the inductor from ground, bypass it
> to ground with a small capacitor, and apply a slightly positive
> voltage from a voltage divider. I think it is much better to just go
> with the 7mA or whatever it turns out to be for your particular part,
> and concentrate on input matching adjustments.

I won't do it either, I just have the feeling that the particular
mosfet I have is maybe failing, but I would have to steal another 981
from a working preamp to be sure, which I'm reluctant to do, or use a
different dual gate mosfet like the 960 or 966 (I have plenty of them
from TV tuners).

>
> You didn't mention what frequency this preamp is for, did you? I am
> curious--is it for 144MHz or 440MHz or some other band?

70 Mhz, not a really quiet band actually, but I live in a quiet place
anyway. With a transverter tuned by ear (currently I don't even have a
spectrum analyzer) and a 6 element yagi home made I can hear very
frequent MS pings from beacons I normally don't hear. It's often
enough to tune a beacon frequency and turn to the right direction and
wait some minutes to get some pings and be sure everything is working.
If we get permission to operate on this band in the next years we
might be able to make the first TEP contact on this band. I don't
think a preamp would make a difference in my setup, but it surely
won't harm.

Thanks again and best 73
Francesco IZ8DWF

From 2046091860176366496
X-Google-Thread: fc2a5,29741d180f2f7389,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!wn13feed!
worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA:ORIGINAL/USED COLLINS, HALLI MANUALS
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <cg2Yi.57962$kj1.25738@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: 1230f890075dc9f0925476b043da3562
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1194373256
1230f890075dc9f0925476b043da3562 (Tue, 06 Nov 2007 18:20:56 GMT)
NNTP-Posting-Date: Tue, 06 Nov 2007 18:20:56 GMT
Organization: AT&T Worldnet
Date: Tue, 06 Nov 2007 18:20:57 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:14597

Have just listed several original and used COLLINS/ROCKWELL,
HALLICRAFTERS MANUALS AT:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

Tnx for stopping by; heytubeguy

From 7434148930980225519
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!198.186.194.251.MISMATCH!news-out.readnews.com!
transit4.readnews.com!panix!panix3.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL Homebrew Challenge
Date: Tue, 6 Nov 2007 15:02:01 -0500

Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 103
Message-ID: <Pine.NEB.4.64.0711061454200.7029@panix3.panix.com>
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
 <pan.2007.10.29.05.42.11.596683@localhost.localdomain>
 <cJCdnRoDacL9XLjanZ2dnUVZ_sSlnZ2d@bright.net>
<slrnfitbnh.k03.wettering@fishtank.brainwagon.org>
 <b8XXi.4934$lx.1650@trndny05>
NNTP-Posting-Host: panix3.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader1.panix.com 1194379322 17890 166.84.1.3 (6 Nov 2007 20:02:02 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 6 Nov 2007 20:02:02 +0000 (UTC)
In-Reply-To: <b8XXi.4934$lx.1650@trndny05>
Xref: g2news1.google.com rec.radio.amateur.homebrew:14598

You can easily dump $3,000 into a single, contemporary, mid-range "box". I don't even look at the catalogs or QST any more for this stuff which is large, at least two big knobs, severa dozen other knobs/switches, and panadapter screen with fancy-schmantzy readout (digital send VFO freq, receive VFO freq, bandwidth graphics, etc).

But, over the last 30 years, yes, in total I easily dumped more than $3K into several VHF rigs, one UHF rig, several handi-talkies, a number of solid state HF rigs, amplifiers, old retro tube gear, some antennas (beams), rotators, SWR meters, antenna tuners....it all adds up. Easily, quickly.

Now, a guy can --it is possible--get on the air with something like a used TS-520 (good basic HF rig) dipole, coax, microphone, all bare minimum, for less than $500, maybe even less (520s maybe down to $250 these days, depending on how badly a guy wants to sell his). Me, yes, I have a 520 and an old Icom 707 (bought at a ham store for $400, and it is vintage entry level simple broadband rig from at least 20 years ago). And, a couple of boatanchors.

===== no change to below, included for reference and context =====

On Tue, 6 Nov 2007, W3JDR wrote:

>> Listening to the bands, it is sometimes hard to
>> imagine that there are still hams who operate with a budget of less than
>> $3000, and still manage to have fun doing so.
> --
>
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```
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>
>
>
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>>
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>>
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>>
>>>
>>> Scott
>>> N0EDV
>>>
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>>>>
>>>>
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>>>>>
>>>>>
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>>>>> http://groups.yahoo.com/group/ARRLHBC/
>>>>>
>>>>> Some of the entrants have posting info about their entries there.
>>>>
```

```
>>>>
>>>> Four entries? This does not bode well for the hobby :-(
>>>>
>>>> IMHO, building at least some of your own stuff should be a prerequisite
>>>> for the license.
>>>>
>>>> Cheers,
>>>> __
>>>> Gregg
>>>>
>>>
>
>
>
```

```
From 4150890968709954809
X-Google-Thread: fc2a5,7a79560c58c365ea
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!t8g2000prg.googlegroups.com!not-for-
mail
From:  nx7u <nx7u@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: BF981 classic preamp
Date: Tue, 06 Nov 2007 17:20:35 -0800
Organization: http://groups.google.com
Lines: 69
Message-ID: <1194398435.700407.65800@t8g2000prg.googlegroups.com>
References: <1194275980.699175.14200@50g2000hsm.googlegroups.com>
   <1194315601.863777.322370@z9g2000hsf.googlegroups.com>
   <1194338688.533826.176830@d55g2000hsg.googlegroups.com>
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   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14600
```

Francesco,
I have some better answers now, as I have a very complete BF981 datasheet in front of me.
1. For fixed Vg1s and Vg2s, changing Vds has no effect on Id. Just like you observed.
2. The *typical* Id for [Vg1s=0, Vg2s=+4, Vds=10V] is 11mA. The

minimum value of Id for the same bias point is 4mA. So your observed
7mA is within the process variation.
3. No the gates are not interchangable.
4. The datasheet does not give any Vg2s/Id curves, and Vg1s cannot be
positive (max gate current is exceeded nearly immediately) so you're
stuck with 7mA for this part.
5. Id *does* depends very strongly on Vg1s...for the typical part,
Vg1s=0V gives 11mA, but Vg1s=-0.5V gives Id=4mA.
6. Noise data is given at Vds=10V, Vg1s=0V, Vg2s=+4V: Fmin=0.6dB,
Gs,opt=0.6mmho, Bs,opt=-1.25mmho @ 100MHz.

The BF991 does look to be the same die as the BF981, just in the SMT
package.
GL,

On Nov 6, 1:44 am, francesco.messi...@gmail.com wrote:
> Hello all and thanks for all the answers,
>
> as I already said, I tried to raise Vd up to 12V and Id almost doesn't
> change, as Vg2s remains constant.
> g1 is always at 0V in this design since there's an inductor to ground
> (part of a parallel resonant LC), so actually Vg1s is slightly
> negative, less than -0.1V with a 15 ohm Rs. I doubt this really
> affects the Id. I actually tried to keep Vg2s at 0V and change Vg1s
> and what I found is a weaker effect on Id with respect to Vg2s, with
> Vg2s=0V and Vg1s=4V the Id was less than 3mA. Clearly the two gates
> aren't interchangeable.
>
> On 6 Nov, 03:20, K7ITM <k7...@msn.com> wrote:
>
>
>
> > Hi Francesco,
>
> > The data sheet I was able to quickly find suggests optimum noise
> > figure at a particular Vds, Vg2s, and Id, but does not mention the
> > Vg1s required to achieve that Id. I suppose that for your particular
> > part, you may need to run gate 1 slightly positive with respect to the
> > source to get the 10mA. However, I doubt that there will be a
> > significant advantage to doing so with respect to the noise figure.
> > It will almost certainly be more important to adjust the input
> > matching to achieve lowest noise figure.
>
> righ, but on the datasheet there's no data about the right source
> impedance for best NF.
>
> > The data sheet I found was old and only seems to have summary data. I
> > looked on the NXP web site, and found what seems to be a similar part,
> > the BF991. The data sheet for it is complete, but it seems still very
> > sparse. I am used to data sheets for low noise RF amplifier
> > transistors that include graphs of things like noise figure versus
> > input matching at some particular bias, and possibly for two or three
> > bias conditions. It was a disappointment to not see something like

```
> > that for the BF9x1 parts, though they may be good parts anyway.
>
> I'll have a look at the BF991 datasheet too, thanks for hint.
> I have actually other spare mosfets like the BF960 and BF966, but they
> seems worse than the BF981.
>
> Thanks again
> Francesco IZ8DWF




From 8909449256760911164
X-Google-Thread: fc2a5,8361beff5cdf6014,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx01.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-
mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 6.0 volt Filament
Date: Wed, 7 Nov 2007 00:25:50 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Lines: 9
Message-ID: <47314c55$0$25104$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 71.75.75.214
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:14602

Im trying to build a n amp using 4cx250s and need 6.0 volts for the
filament. The only transformers I have are 6.3. Can I just use a ballast
resistor to drop it down. My other thought was to wire another 6.3 volt
transformer as an autotransformer to reduce the voltage and use this to feed
the filament transformer.

Jimmie




From -8259140949008807778
X-Google-Thread: fcc6e,8047621cefff1173,start
X-Google-Thread: 11480d,8047621cefff1173,start
X-Google-Thread: 108122,8047621cefff1173,start
X-Google-Thread: fc2a5,8047621cefff1173,start
X-Google-Thread: 10b9c8,8047621cefff1173,start
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X-Google-Attributes: gidfcc6e,gid11480d,gid108122,gidfc2a5,gid10b9c8,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.194.251.MISMATCH!news-out.readnews.com!transit4.readnews.com!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Supersedes: <radio/ham-radio/recruitment-1-1191737101@panix.com>
Followup-To: poster
Date: 7 Nov 2007 02:05:02 -0500
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
Expires: 10 Dec 2007 02:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1194419101@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1194419103 1127 166.84.1.2 (7 Nov 2007 07:05:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 7 Nov 2007 07:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news1.google.com rec.radio.amateur.antenna:48439 rec.radio.amateur.dx:3715
rec.radio.amateur.equipment:13170 rec.radio.amateur.homebrew:14603
rec.radio.info:601

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT

Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

From 6187351717470864145
X-Google-Thread: fc2a5,8361beff5cdf6014
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e34g2000pro.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6.0 volt Filament
Date: Tue, 06 Nov 2007 23:19:09 -0800
Organization: http://groups.google.com
Lines: 21
Message-ID: <1194419949.349969.321470@e34g2000pro.googlegroups.com>
References: <47314c55$0$25104$4c368faf@roadrunner.com>
NNTP-Posting-Host: 71.113.61.183
Mime-Version: 1.0
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NNTP-Posting-Date: Wed, 7 Nov 2007 07:19:09 +0000 (UTC)
In-Reply-To: <47314c55$0$25104$4c368faf@roadrunner.com>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:14604

On Nov 6, 9:25 pm, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
> Im trying to build a n amp using 4cx250s and need 6.0 volts for the
> filament. The only transformers I have are 6.3. Can I just use a ballast
> resistor to drop it down. My other thought was to wire another 6.3 volt
> transformer as an autotransformer to reduce the voltage and use this to feed

> the filament transformer.
>
> Jimmie

Seems like a resistor is a good idea. It doesn't waste much power, can be trimmed to get the voltage right, and has the added advantage of providing some limit to the current as the filament comes to temperature after being cold. 0.1 ohms (per tube) should do the trick if the 6.3V transformer really puts out 6.3V under that load. The power dissipation would be under a watt, and I've found 0.1 ohm 2 watt and 5 watt resistors in the past on the surplus market for very reasonable prices.

Cheers,
Tom

From 1974699810116132837
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X-Google-Attributes: gidfc2a5,public,usenet
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Path: g2news1.google.com!postnews.google.com!57g2000hsv.googlegroups.com!not-for-mail
From: francesco.messineo@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: BF981 classic preamp
Date: Wed, 07 Nov 2007 00:16:18 -0800
Organization: http://groups.google.com
Lines: 35
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Complaints-To: groups-abuse@google.com
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   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14605

Hello,

On 7 Nov, 02:20, nx7u <n...@cox.net> wrote:

> Francesco,
> I have some better answers now, as I have a very complete BF981
> datasheet in front of me.

Is it in electronic form? If so I'd be interested in it.

> 1. For fixed Vg1s and Vg2s, changing Vds has no effect on Id. Just
> like you observed.
> 2. The *typical* Id for [Vg1s=0, Vg2s=+4, Vds=10V] is 11mA. The
> minimum value of Id for the same bias point is 4mA. So your observed
> 7mA is within the process variation.
> 3. No the gates are not interchangable.
> 4. The datasheet does not give any Vg2s/Id curves, and Vg1s cannot be
> positive (max gate current is exceeded nearly immediately) so you're
> stuck with 7mA for this part.

hmm then I surely damaged the mosfet when playing with gates
reversed.
I better find another one.

> 5. Id *does* depends very strongly on Vg1s...for the typical part,
> Vg1s=0V gives 11mA, but Vg1s=-0.5V gives Id=4mA.
> 6. Noise data is given at Vds=10V, Vg1s=0V, Vg2s=+4V: Fmin=0.6dB,
> Gs,opt=0.6mmho, Bs,opt=-1.25mmho @ 100MHz.

Thanks for the informations, If I had seen the datasheet before I
wouldn't ever have swapped the gates.
Now looking for another mosfet :-)

73
Francesco IZ8DWF

From -3872431005511045189
X-Google-Thread: fc2a5,8361beff5cdf6014
X-Google-Attributes: gidfc2a5,public,usenet
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nntp.eclipse.net.uk!news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 07 Nov 2007 03:07:55 -0600
Message-ID: <KHHhWAIAzXMHFAnN@ifwtech.co.uk>
Date: Wed, 7 Nov 2007 08:52:16 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6.0 volt Filament
References: <47314c55$0$25104$4c368faf@roadrunner.com>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed

User-Agent: Turnpike/6.05-M (<5mwkzTBRO5sETFKkGhyHHc+YXH>)
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X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news1.google.com rec.radio.amateur.homebrew:14606

Jimmie D wrote:
>Im trying to build a n amp using 4cx250s and need 6.0 volts for the
>filament. The only transformers I have are 6.3. Can I just use a ballast
>resistor to drop it down. My other thought was to wire another 6.3 volt
>transformer as an autotransformer to reduce the voltage and use this to feed
>the filament transformer.
>
You don't need a second transformer; series resistance will do fine.

If it's two 4CX250s, then you need to drop 0.3V at (from memory) 5.2A, so the resistance would be 0.06 ohms. There will be some resistance in the connecting wires, but it's obviously difficult to make fine adjustments at such low values of resistance.

If the 6.3V transformer has no other secondary windings, a more convenient place to put the resistor is in the primary circuit. There you would need about 20 ohms to get the same effect, and this larger value is much easier to adjust. (The power dissipation of the resistor is the same in both locations.)

Either method will have some effect on the heater voltage regulation... but the higher-impedance supply allows you to make an interesting experiment: using a 4-digit AC voltmeter, you can watch the heater voltage slowly increase towards its final value over timescales of 1-2 minutes. You are using the tube's heater as a resistance thermometer to monitor the cathode temperature.

If the mains voltage is liable to vary - and above all, if you plan to use this amplifier from a generator - then it really needs an electronically regulated heater supply. Many amplifier builders have used a small switch-mode supply (look for a well-screened unit with good input and output filtering). Most 5.0V supplies can easily be cranked up to 6.0V, but some will need further modifications to prevent a large current surge through the heaters at switch-on.

--

73 from Ian GM3SEK
http://www.ifwtech.co.uk/g3sek

From 7782070618999031419
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Path: g2news1.google.com!news2.google.com!postnews.google.com!
k79g2000hse.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6.0 volt Filament
Date: Wed, 07 Nov 2007 07:26:43 -0800
Organization: http://groups.google.com
Lines: 24
Message-ID: <1194449203.531259.179800@k79g2000hse.googlegroups.com>
References: <47314c55$0$25104$4c368faf@roadrunner.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1194449203 31911 127.0.0.1 (7 Nov 2007 15:26:43 GMT)
X-Complaints-To: groups-abuse@google.com
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In-Reply-To: <47314c55$0$25104$4c368faf@roadrunner.com>
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Xref: g2news1.google.com rec.radio.amateur.homebrew:14608

On Nov 7, 12:25 am, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
> Im trying to build a n amp using 4cx250s and need 6.0 volts for the
> filament. The only transformers I have are 6.3. Can I just use a ballast
> resistor to drop it down. My other thought was to wire another 6.3 volt
> transformer as an autotransformer to reduce the voltage and use this to feed
> the filament transformer.

Generally either just the wiring between the transformer and the tube
sockets, or the filament choke if operating grounded-grid, will
provide a drop of that kind.

Usually we hams find ourselves in the case of having too much drop in
our filament wiring. Strange that someone would think that the
opposite to be a worry :-).

0.3V out of 6.0V is only 5%. For a lot of medium to large-size amps on
household sockets (especially 110V), you see the incoming AC line
voltage drop more than 5% when you key up :-).

Some transformers have primary and/or secondary taps if you are really

```
picky about filament voltage.

Tim.



From 964234247497652636
X-Google-Thread: fc2a5,7a79560c58c365ea
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z9g2000hsf.googlegroups.com!not-for-
mail
From:  francesco.messineo@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: BF981 classic preamp
Date: Wed, 07 Nov 2007 07:47:36 -0800
Organization: http://groups.google.com
Lines: 32
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NNTP-Posting-Date: Wed, 7 Nov 2007 15:47:36 +0000 (UTC)
In-Reply-To: <5di3j3h8dcjfu37r9kg2ld3som720kkjka@4ax.com>
User-Agent: G2/1.0
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20060216 Debian/1.7.12-1.1ubuntu2,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
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   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14609

Hi Allison,

On 7 Nov, 15:21, no.s...@no.uce.bellatlantic.net wrote:
> On Wed, 07 Nov 2007 00:16:18 -0800, francesco.messi...@gmail.com
> wrote:
>
>
>
> >Hello,
>
> >On 7 Nov, 02:20, nx7u <n...@cox.net> wrote:

> >> 4. The datasheet does not give any Vg2s/Id curves, and Vg1s cannot be
```

> >> positive (max gate current is exceeded nearly immediately) so you're
> >> stuck with 7mA for this part.
>
> >hmm then I surely damaged the mosfet when playing with gates
> >reversed.
> >I better find another one.
>
> Reversing the gates wou;d not damage them. The gain would be poor
> and other effects but no damage.

Hmm ok, I haven't yet desoldered the original one, I assumed it would
be bad when I read about the maximum gate current exceeded when Vg1s
is positive, which happened when I reversed the gates.

Thanks

Francesco

From -8946609664686283855
X-Google-Thread: fc2a5,8361beff5cdf6014
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <47314c55$0$25104$4c368faf@roadrunner.com>
<1194449203.531259.179800@k79g2000hse.googlegroups.com>
Subject: Re: 6.0 volt Filament
Date: Wed, 7 Nov 2007 20:38:57 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 35
Message-ID: <473268a8$0$24336$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 71.75.75.214
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:14611

"Tim Shoppa" <shoppa@trailing-edge.com> wrote in message
news:1194449203.531259.179800@k79g2000hse.googlegroups.com...
> On Nov 7, 12:25 am, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
>> Im trying to build a n amp using 4cx250s and need 6.0 volts for the
>> filament. The only transformers I have are 6.3. Can I just use a ballast
>> resistor to drop it down. My other thought was to wire another 6.3 volt

```
>> transformer as an autotransformer to reduce the voltage and use this to
>> feed
>> the filament transformer.
>
> Generally either just the wiring between the transformer and the tube
> sockets, or the filament choke if operating grounded-grid, will
> provide a drop of that kind.
>
> Usually we hams find ourselves in the case of having too much drop in
> our filament wiring. Strange that someone would think that the
> opposite to be a worry :-).
>
> 0.3V out of 6.0V is only 5%. For a lot of medium to large-size amps on
> household sockets (especially 110V), you see the incoming AC line
> voltage drop more than 5% when you key up :-).
>
> Some transformers have primary and/or secondary taps if you are really
> picky about filament voltage.
>
> Tim.
>

It was my understanding that the 4cx250s were picky about that extra .3
volt.

Jimmie




From 2661058905404941875
X-Google-Thread: fc2a5,8361beff5cdf6014
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-
in-01.newsfeed.easynews.com!news-in-02.newsfeed.easynews.com!easynews.com!
easynews!sn-xt-sjc-03!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6.0 volt Filament
Date: Wed, 7 Nov 2007 19:15:07 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13j4vp2nbhfl6c8@corp.supernews.com>
References: <47314c55$0$25104$4c368faf@roadrunner.com>
<1194449203.531259.179800@k79g2000hse.googlegroups.com>
<473268a8$0$24336$4c368faf@roadrunner.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
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Lines: 15
Xref: g2news1.google.com rec.radio.amateur.homebrew:14612

The 4CX150/250 series is picky about the filament voltage. It should be 6 volts.

There is an advantage in having a filament transformer higher than the voltage required by the filament. By using a series resistor, you limit the surge current - which means longer life. When you fire up the tube, the filament is cold and lower resistance. That means more current. But, with a series resistor, when the filament is cold and the resistance is lower, the resistor will limit current.

The Alpha 99 and 91B used a series resistor in the filament supply.

73, Colin K7FM

From -2926158361028766257
X-Google-Thread: fc2a5,7a79560c58c365ea
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k35g2000prh.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: BF981 classic preamp
Date: 7 Nov 2007 21:18:54 -0800
Organization: http://groups.google.com
Lines: 50
Message-ID: <1194476150.883639.37990@k35g2000prh.googlegroups.com>
References: <1194275980.699175.14200@50g2000hsm.googlegroups.com>
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NNTP-Posting-Host: 71.113.61.183
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X-Trace: posting.google.com 1194499149 21365 127.0.0.1 (8 Nov 2007 05:19:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Nov 2007 05:19:09 +0000 (UTC)
In-Reply-To: <1194398435.700407.65800@t8g2000prg.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.9) Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k35g2000prh.googlegroups.com; posting-host=71.113.61.183;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14613

On Nov 6, 5:20 pm, nx7u <n...@cox.net> wrote:

...

> 3. No the gates are not interchangable.

That's generally true of dual-gate mosfets, of course. Gate 2 is similar to the control element of the upper transistor in a cascode. Thus, in typical operation, gate 2 has very little effect on drain current.

> 4. The datasheet does not give any Vg2s/Id curves, and Vg1s cannot be
> positive (max gate current is exceeded nearly immediately) so you're
> stuck with 7mA for this part.

?? That seems very strange. I would expect that, based on the diagram shown in the data sheet for the part, the current into the gate terminal would be very small up to the point where either the protection diodes turned on, or the gate oxide broke down. If the latter happens, you won't have any FET behavior ever again with that part. ;-) The data sheet says 10mA max gate current (the allowable gate current before the part is damaged), and that presumably is through the protection diodes. For the BF991, that would be at a minimum of 6 volts, and in any event should not be less than a standard forward diode drop. If Francesco has a circuit where gate 2 is biased through a resistive divider which would limit the gate current to less than 10mA, I would think there is no problem with having reversed gate 1 and gate 2, though of course it won't work as an amplifier that way.

Though it's possible to damage a transistor in a way that it will not work well as an RF amplifier but will still show normal DC behavior, I'd say it's very unlikely that's the case for biasing Gate 1 a bit too positive. So if the DC behavior is normal (nominal zero-gate-1-voltage drain current and decreasing drain current with negative gate 1 voltage; cutoff complete by -2.5V and likely somewhat before that; "flat" drain current with changes in drain voltage above the gate 2 voltage...), I'd expect it to still be OK, or at least worth trying in an RF amplifier.

> The BF991 does look to be the same die as the BF981, just in the SMT
> package.

In which case, I would expect no more than 50nA of gate-lead current up to 5V g-s voltage, at 25C...

Cheers,
TOm

From -1482639014435719321
X-Google-Thread: fc2a5,8361beff5cdf6014

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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e34g2000pro.googlegroups.com!not-for-
mail
From:  Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6.0 volt Filament
Date: Thu, 08 Nov 2007 06:10:16 -0800
Organization: http://groups.google.com
Lines: 47
Message-ID: <1194531016.330180.266490@e34g2000pro.googlegroups.com>
References: <47314c55$0$25104$4c368faf@roadrunner.com>
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   <473268a8$0$24336$4c368faf@roadrunner.com>
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X-Trace: posting.google.com 1194531026 21814 127.0.0.1 (8 Nov 2007 14:10:26 GMT)
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NNTP-Posting-Date: Thu, 8 Nov 2007 14:10:26 +0000 (UTC)
In-Reply-To: <473268a8$0$24336$4c368faf@roadrunner.com>
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1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e34g2000pro.googlegroups.com; posting-host=170.121.15.35;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:14614

On Nov 7, 8:38 pm, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
> "Tim Shoppa" <sho...@trailing-edge.com> wrote in message
>
> news:1194449203.531259.179800@k79g2000hse.googlegroups.com...
>
>
>
>
>
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```

>
> > 0.3V out of 6.0V is only 5%. For a lot of medium to large-size amps on
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> > voltage drop more than 5% when you key up :-).
>
> > Some transformers have primary and/or secondary taps if you are really
> > picky about filament voltage.
>
> > Tim.
>
> It was my understanding that the 4cx250s were picky about that extra .3
> volt.

All I'm saying is that with all the primary and secondary drops, not
to mention any sag in your house wiring, you may end up at exactly
6.0V when keyed up anyway. Give it a shot and if you discover you're
still 0.3V too high, then put in some dropping resistors (maybe just a
few feet of hookup wire). How many 4CX250's? They're about 2.6A
filament current each, so if you have three and need to drop 0.3V,
it's just 0.038 ohms.

Tim.

From 8780599663009401979
X-Google-Thread: fc2a5,654384f37e30a915
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!sn-xt-sjc-03!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS VFO with AD9850 / AD9851 and PIC16F877A
Date: Tue, 23 Oct 2007 23:34:08 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13htio55fmpuq85@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <1191317606.379971.49740@g4g2000hsf.googlegroups.com>
<471cd5b4$0$9628$4c368faf@roadrunner.com>
<veWdnSIfKLZqMIPanZ2dnUVZ_hisnZ2d@comcast.com>
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Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 19
Xref: g2news2.google.com rec.radio.amateur.homebrew:1296

Jim wrote:

<snip>

> The general problem is going to be that WINXP, 2000, Vista, and NT make
> it difficult to use the printer port pins directly. Not impossible, but
> certainly a problem.
>

Please see http://www.beyondlogic.org/porttalk/porttalk.htm for the 'allowio
driver' for interrupt-based parallel port access. The 'JWA' logic analyzer
software 'digitrace' uses this on NT-based Windows with good results.
The logic analyzer software is at:
http://www.xs4all.nl/%7Ejwasys/old/ select 'DigiTrace' in the left frame.

Regards,

Michael

From -2985298575630543980
X-Google-Thread: fc2a5,654384f37e30a915
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
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NNTP-Posting-Date: Wed, 24 Oct 2007 01:27:39 -0500
From: "Jim" <kill-spam@no-spam.org>
Newsgroups: rec.radio.amateur.homebrew
References: <1191317606.379971.49740@g4g2000hsf.googlegroups.com>
<471cd5b4$0$9628$4c368faf@roadrunner.com>
<veWdnSIfKLZqMIPanZ2dnUVZ_hisnZ2d@comcast.com>
<13htio55fmpuq85@corp.supernews.com>
Subject: Re: DDS VFO with AD9850 / AD9851 and PIC16F877A
Date: Tue, 23 Oct 2007 23:27:31 -0700
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 000783-1, 10/22/2007), Outbound message
X-Antivirus-Status: Clean
Message-ID: <qYSdnTqQO5FGeIPanZ2dnUVZ_jqdnZ2d@comcast.com>
Lines: 37
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wBYCgH64bSz6lqZBZ2!fJgPKb/
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wSqBnYJCHaru59kJdjFjr7wtuOd/GQ==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers

X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1297

Micheal Wrote:

>Jim wrote:

>> The general problem is going to be that WINXP, 2000, Vista, and NT
>> make it difficult to use the printer port pins directly. Not
>> impossible, but certainly a problem.
>>
>
>Please see http://www.beyondlogic.org/porttalk/porttalk.htm for the
>'allowio
>driver' for interrupt-based parallel port access. The 'JWA' logic analyzer
>software 'digitrace' uses this on NT-based Windows with good results.

I had problems using allowio for a visual basic program I wrote... I kept getting a process ID of 0 no matter what I tried.

Also, I believe this does not work for Vista computers. Vista locks down a lot more of the computer system.

Jim
N6BIU

--

23:27 Pacific Time Zone
Oct 23 2007

International Time
06:27 UTC
24.10.2007

From -2048897603150050127
X-Google-Thread: fc2a5,84263c76c38f8eda,start
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v23g2000prn.googlegroups.com!not-for-mail
From: zdnet1111@rediffmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: help with RF amplifier concept please

Date: Wed, 24 Oct 2007 03:19:01 -0700
Organization: http://groups.google.com
Lines: 65
Message-ID: <1193221141.371284.291050@v23g2000prn.googlegroups.com>
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Content-Type: text/plain; charset="iso-8859-1"
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X-HTTP-UserAgent: Opera/9.23 (Windows NT 5.1; U; en),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v23g2000prn.googlegroups.com; posting-host=213.42.2.24;
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Xref: g2news2.google.com rec.radio.amateur.homebrew:1298

Hi,

I am looking for some help in understanding amplifier concepts (solid state only) and product specifications. I have searched for definitions and essays on the topic, but , having no electronics exposure, I find it hard to understand the concepts clearly. So if someone can please help:

1.   What actually is amplification of a RF signal: is it the scaling up of the amplitude?

I want to amplify a signal where the output has very low distortion and noise. It should be as close to the input signal as possible:

2.   Does push-pull setup mean that it's a class AB amplifier in which two amplifiers amplify the same signal, but the opposite two halves of the input signal?

If this is true, in an amplifier like this:
http://www.communication-concepts.com/ar347.htm

If two solid state amplifiers are rated at 600W each, and it's a push-pull arrangement, how come the output of this amplifier is 1000 watts (or 1.2 kw theoretically)
If one Motorola amplifier is amplifying half the signal, the other amplifying the other half, wouldn't the total output be 600W for the whole signal?

3.   In class AB amplifiers, is the output signal an exact replica (but amplified) version of the input signal?

4.   What is an octave when dealing with amplifiers?

5. Is this communication concepts HF 1000 watt amplifier a class A, class AB, or class C amplifier?
http://www.communication-concepts.com/ar347.htm

6. Does anyone know the detailed specs for this same communication-concepts 1000 watt HF amplifier?
Specs like:
a. Duty cycle
b. Phase stability
c. Phase change with power
d. Gain flatness
e. Pulse droop
f. Harmonics
g. Spurious
h. Rise/fall times
i. VSWR or load SWR
j. Gate delay

7 Can this amplifier be "controlled" to give graded amplification less than 1000 watts specified, or will it work only at this maximum level?

Any help is appreciated.

Thanks

Vijay

```
From -8595159973549884266
X-Google-Thread: fc2a5,654384f37e30a915
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
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news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 24 Oct 2007 05:32:33 -0500
Date: Wed, 24 Oct 2007 11:32:28 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS VFO with AD9850 / AD9851 and PIC16F877A
References: <1191317606.379971.49740@g4g2000hsf.googlegroups.com>
<471cd5b4$0$9628$4c368faf@roadrunner.com>
<veWdnSIfKLZqMIPanZ2dnUVZ_hisnZ2d@comcast.com>
In-Reply-To: <veWdnSIfKLZqMIPanZ2dnUVZ_hisnZ2d@comcast.com>
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TdGQy7YysGEUk3/POjJWyEP9gFe54stAG8!suEH6ipjXZaOx4E6mGtTuUQ=
X-Complaints-To: abuse@dsl.pipex.net
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1299

Jim wrote:
> On Mon, 22 Oct 2007 12:54:16 -0400, Jimmie D wrote:
>
>> I want to build something like this but without the PIC interface. Instead
>> I want to control it directly from a printer port. I am looking for
>> examples of software that can talk to DDS chips in this manner. As a
>> matter of fact I plan on building the device so that the whole thing will
>> fasten to the printer port or possible mounted internal to the PC. Any
>> help would be greatly appreciated.
>>
>>
>> Jimmie
>
>
>
>    The general problem is going to be that WINXP, 2000, Vista, and NT make
> it difficult to use the printer port pins directly.   Not impossible, but
> certainly a problem.
>
>    You could use something like a PIC877 or some such to act as a serial
> input which would then allow using Rs232 to communicate from the PC to a
> radio.
>
>   Alternatively, use WIN98 and the printer pins are "up for grabs" with
> fairly simple PC programs.
=================================
Or consider embracing Linux.
It might involve an initially steep learning curve , but a worldwide
Linux community is on tap to help.

Frank  GM0CSZ / KN6WH


From -1534101309535553914
X-Google-Thread: fc2a5,90af4c134c0a64d4
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
```

From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <auqdnb24quGF72jbRVnygQA@pipex.net> <MGeJi.98494$Xa3.4844@attbi_s22>
Subject: Re: Instrument Case For Transceiver
Date: Wed, 24 Oct 2007 11:36:21 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Lines: 29
Message-ID: <471f6675$0$26410$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 71.68.80.78
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:1300

I have used a lot of the A/B boxes. we use a lot of them at work and when they go bad I salvage the box.

Especially nice when you can use the existing connectors.

Jimmie

>> --
>> M0WYM
>
> Charlie, at the next boot sale coming near you, look for the A/B switch
> boxes for switching between printers and serial ports and the like. Some
> are roughly the size you're asking about and you just have to make a new
> front and rear panel for them. (They ARE steel, and a bear to work with)
> As an alternative, I have some extruded Aluminum boxes 1/8 th inch wall
> that are 6 wide by 8 deep by 1-3/4 high. Open front and back but internal
> ribs for sliding in a couple PC boards and tapped on the ends for 4-40
> bolts for holding on front and rear panels. If you can live with the
> reduced height, one is yours for the postage.
>
> W4ZCB
>

From -6076347299456528250
X-Google-Thread: fc2a5,f0329678a4cc94dc,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!out03b.usenetserver.com!

```
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-
out.readnews.com!postnews3.readnews.com!news.coretel.net!not-for-mail
From: "Sales_Surplus_Homebrewers" <Sales@clfurlongenterprises.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FS - Homebrew stuff
Date: Wed, 24 Oct 2007 12:05:28 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 14
Message-ID: <471f6dac$0$7210$ecde5a14@news.coretel.net>
Organization: CoreTel
NNTP-Posting-Host: f11d94b2.news.coretel.net
X-Trace: DXC=3JU>JPRf9n^;8]c\C4Pd=ScYX6N<OEXQ[d@C?
mHbQg4VehAX0UP6H4]MGNln`9ISgT8R8RA0Ji@RU
X-Complaints-To: abuse@coretel.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:1301
```

I have PC Board material - components and other stuff.

I have "some" parts for older equipment (ham/cb/2way) and even came into some "boatanchors" - inquire with needs. Not all is listed on web site - too much to list! Trying to clear stuff out. Monthly specials also available while they last. If I don't "have" what you need - I can check my resources to try to "find" what you need.

www.clfurlongenterprises.com

Thanks for reading - this is a one time post - unless replying to someone's request.

```
From -5791188073565029198
X-Google-Thread: fc2a5,afe938a54d430aec
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v23g2000prn.googlegroups.com!not-for-
mail
From:  francesco.messineo@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FT-707 picture
Date: Wed, 24 Oct 2007 10:03:19 -0700
Organization: http://groups.google.com
Lines: 11
Message-ID: <1193245399.014219.281590@v23g2000prn.googlegroups.com>
References: <1193169579.793639.258500@q3g2000prf.googlegroups.com>
   <471e5ca9$0$16665$9b4e6d93@newsspool3.arcor-online.net>
NNTP-Posting-Host: 62.10.71.186
Mime-Version: 1.0
```

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Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1193245399 2953 127.0.0.1 (24 Oct 2007 17:03:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 24 Oct 2007 17:03:19 +0000 (UTC)
In-Reply-To: <471e5ca9$0$16665$9b4e6d93@newsspool3.arcor-online.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.12) Gecko/
20060216 Debian/1.7.12-1.1ubuntu2,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v23g2000prn.googlegroups.com; posting-host=62.10.71.186;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1302
```

Hello Ralf,

thanks for answer but I don't need pictures of the radio itself, only of one particular board inside the radio.
I need to understand if a particular mod I found on the radio has been made by the previous owner or it's an undocumented mod made by the factory.

73
Francesco IZ8DWF

```
From 2240324479494595559
X-Google-Thread: fc2a5,84263c76c38f8eda
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 24 Oct 2007 12:13:30 -0500
Date: Wed, 24 Oct 2007 10:16:42 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: help with RF amplifier concept please
References: <1193221141.371284.291050@v23g2000prn.googlegroups.com>
In-Reply-To: <1193221141.371284.291050@v23g2000prn.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <U_KdnQeCVo6n4ILanZ2dnUVZ_oOnnZ2d@web-ster.com>
Lines: 95
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-pkZpt6/KXH7XnQq/zDaGAMi5bH08vC9cwsW/QRu/H7BThPlimh8JpJ/
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c6thlHtbszvJwfwCeiiKA/X8JIudnqt0h!iSLyiorr9dQCM9Hf
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
```

X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1303

zdnet1111@rediffmail.com wrote:
> Hi,
>
> I am looking for some help in understanding amplifier concepts (solid
> state only) and product specifications. I have searched for
> definitions and essays on the topic, but , having no electronics
> exposure, I find it hard to understand the concepts clearly. So if
> someone can please help:
>
> 1. What actually is amplification of a RF signal: is it the scaling up
> of the amplitude?

In electronics, amplification of _any_ signal is it's scaling up in
amplitude or power.

> I want to amplify a signal where the output has very low distortion
> and noise. It should be as close to the input signal as possible:
>
> 2. Does push-pull setup mean that it's a class AB amplifier in which
> two amplifiers amplify the same signal, but the opposite two halves of
> the input signal?

Take out the "class AB" from your above statement, and the answer is
"yes". You can have push-pull class A or C amplifiers as well.

> If this is true, in an amplifier like this:
> http://www.communication-concepts.com/ar347.htm
>
> If two solid state amplifiers are rated at 600W each, and it's a push-
> pull arrangement, how come the output of this amplifier is 1000 watts
> (or 1.2 kw theoretically)
> If one Motorola amplifier is amplifying half the signal, the other
> amplifying the other half, wouldn't the total output be 600W for the
> whole signal?

There are a number of reasons for not pushing the output devices to
their limits, and there is always a certain amount of loss in the
coupling network. Just because the transistor _could_ generate 600W in
the right circuit doesn't mean that every designer _would_ make it so.

> 3. In class AB amplifiers, is the output signal an exact replica (but
> amplified) version of the input signal?

We wish. Ideally, yes that is the case. Practically the output signal
will be filtered, delayed, and distorted but not too much.

> 4. What is an octave when dealing with amplifiers?

A two-times change in frequency, just like it is on a piano.

> 5. Is this communication concepts HF 1000 watt amplifier a class A,
> class AB, or class C amplifier?
> http://www.communication-concepts.com/ar347.htm

The page mentions that it's a linear amp, so it's probably class AB. Class A would be terribly inefficient, and class C wouldn't be linear. Communications Concepts builds amplifiers from Motorola applications notes -- your best bet would be to find them and read what the app note has to say. I _think_ that the high-end RF transistor line was retained by Motorola when it spun off On semiconductor, so you probably need to check the Freescale website (Motorola then spun off Freescale). It may now be an On part, however. If you don't find it, ask here.

> 6. Does anyone know the detailed specs for this same communication-
> concepts 1000 watt HF amplifier?
> Specs like:
> a. Duty cycle
> b. Phase stability
> c. Phase change with power
> d. Gain flatness
> e. Pulse droop
> f. Harmonics
> g. Spurious
> h. Rise/fall times
> i. VSWR or load SWR
> j. Gate delay

Check the app note.

> 7 Can this amplifier be "controlled" to give graded amplification less
> than 1000 watts specified, or will it work only at this maximum level?
>

The amplifier is linear, so it will have a more or less fixed amplification. To get less power out in it's linear region, just put a smaller signal in.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From 7510385331677773952
X-Google-Thread: fc2a5,84263c76c38f8eda
X-Google-Attributes: gidfc2a5,public,usenet

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe05.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1193221141.371284.291050@v23g2000prn.googlegroups.com>
<U_KdnQeCVo6n4ILanZ2dnUVZ_oOnnZ2d@web-ster.com>
Subject: Re: help with RF amplifier concept please
Lines: 66
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Message-ID: <u%QTi.81$M44.36@newsfe05.lga>
NNTP-Posting-Host: edmokfndckpegejpmhkjjkpbbiejaafi
X-Trace:
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gggnleppnkiijioiddoondpffjcbiiefcngmgfpkhlcgpbmpnjjjhkaalbkdom
NNTP-Posting-Date: Wed, 24 Oct 2007 16:59:22 MST
Date: Wed, 24 Oct 2007 19:59:21 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:1304
```

I like Tim;s explanation, but since it isn't real clear where you are heading, there are a couple other points I'd like to make.

"Tim Wescott" <tim@seemywebsite.com> wrote in message
news:U_KdnQeCVo6n4ILanZ2dnUVZ_oOnnZ2d@web-ster.com...

> zdnet1111@rediffmail.com wrote:

[BIG CLIP]

> In electronics, amplification of _any_ signal is it's scaling up in
> amplitude or power.

Understand that theoretically, increasing the amplitude increases the power. The reality, especially with RF, and especially with solid state amplifiers, is not quite so simple. In order to transfer power from one RF stage to another, or from an output stage to an antenna, we need to match the input impedance of the following stage with the output impedance of the preceding stage. If the impedances don't match, not all the power will be transferred, and the portion that is transferred is likely to be distorted, perhaps badly.

I turns out that the output impedance of a solid state amplifier is dependent on the output power, with higher power implying a lower impedance -- often quite low. Generally, our antennas, and most larger scale modules, have, by convention, a 50 ohm impedance. (Internal stages often do as well, but there is no reason a designer might not pick something else 'inside the box').

Normal practice is to follow the amplifier with a matching network (typically still inside the amplifier box, however), so that the amp you buy has a 50 ohm impedance output. This matching network actually distorts the signal, really, deliberately. The result is what we want for a typical RF amplifier application.

Your question sounds a bit as if you might not be interested in the "typical" RF application, so the typical answers might not be quite what you are looking for.

[ANOTHER BIG CLIP]

> We wish. Ideally, yes that is the case. Practically the output signal
> will be filtered, delayed, and distorted but not too much.

And again, this linearity is right for typical applications, but again, for TYPICAL applications. Obviously, if an amplifier produces 1000 watts out with 100 watts drive, and it is linear, it will produce 500 watts out with 50 watts drive. But if you give it one watt drive, it might not produce 10 watts, and what it does produce might be quite distorted and masked with noise or other artifacts. Again, within reasonable limits, in typical applications, these things behave as you would expect. But in some odd application, or at the liimits of their useable range, the results might not be close enough to theoretical to satisfy you.

The same is true if your input waveform is not what one would expect. For communications service, the expected waveform is really quite predictable, and the design of the impedance matching circuits makes assumptions about these waveforms. If your input waveform is far from what would be expected, then you might experience a lot of distortion of the input waveform, even though a non-critical look appears to be within the operating range. For example, if you were to drive that amp with a 50 MHz square wave, the output waveform would probably look more like a sine wave than a square wave.

..

From 301025311763716146
X-Google-Thread: fc2a5,86fd2a338943920c,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Wed, 24 Oct 2007 22:27:40 -0500
Date: Thu, 25 Oct 2007 16:27:43 +1300
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en

MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: More on the Kenwood 820s.
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000784-0, 25/10/2007), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-6-202.dsl.telstraclear.net
Message-ID: <47200d29$1@clear.net.nz>
X-Original-Trace: 25 Oct 2007 16:27:37 +1300, 121-72-6-202.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints abuse@clear.net.nz
Lines: 12
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-AuthenticatedUsername: news10531
X-Trace: sv3-DbizBZYxYVvJM5hKZz+/rhVmO4XO45gR+Z5hG8LmDw7gGyr8mVKyZ//
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o4U8FTrP74lh3P9yOtxpqdqONrWmWW9HdeuUxarXRqpss3C4foe0kBZFiQ==
X-Complaints-To: abuse@clear.net.nz
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1305

Well I've got all my TX problems sorted out fine now.
However I am beginning to think that the receiver is somewhat noisy.
When set up as per manual I am getting about a S3 internal noise level
on sideband.
My unit has had the RF stage modified as per the International Radio
mods and also the balanced mixer. In the next few days I hope to have a
look at this problem too, it is possible that the mixer balance is not
very perfect for example.
It was also fitted with back to back 1N4148 diodes across the RX input
and these might just have been damaged with the tx problem.
Has anyone else had a similar experience with this rig?
Regards Cliff Wright ZL1BDA ex G3NIA.

From 7145912876486865392
X-Google-Thread: fc2a5,86fd2a338943920c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!out02b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!pc03.usenetserver.com!EVERESTKC.NET-
a2kHrUvQQWlmc!not-for-mail
Date: Thu, 25 Oct 2007 16:27:43 +1300
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)

X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: More on the Kenwood 820s.
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000784-0, 25/10/2007), Outbound message
X-Antivirus-Status: Clean
X-Original-Message-ID: <47200d29$1@clear.net.nz>
X-Original-Trace: 25 Oct 2007 16:27:37 +1300, 121-72-6-202.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints abuse@clear.net.nz
X-Usenet-Provider: http://www.giganews.com
X-AuthenticatedUsername: news10531
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Postfilter: 1.3.36
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Lines: 12
X-Trace: e27b84720194fef7b7d1a14619
Xref: g2news2.google.com rec.radio.amateur.homebrew:1306

Well I've got all my TX problems sorted out fine now.
However I am beginning to think that the receiver is somewhat noisy.
When set up as per manual I am getting about a S3 internal noise level on sideband.
My unit has had the RF stage modified as per the International Radio mods and also the balanced mixer. In the next few days I hope to have a look at this problem too, it is possible that the mixer balance is not very perfect for example.
It was also fitted with back to back 1N4148 diodes across the RX input and these might just have been damaged with the tx problem.
Has anyone else had a similar experience with this rig?
Regards Cliff Wright ZL1BDA ex G3NIA.

From -3539450377627384901
X-Google-Thread: fc2a5,86fd2a338943920c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 25 Oct 2007 04:42:05 -0500
Date: Thu, 25 Oct 2007 10:42:04 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: More on the Kenwood 820s.
References: <47200d29$1@clear.net.nz>
In-Reply-To: <47200d29$1@clear.net.nz>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed

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NNTP-Posting-Host: 85.210.31.7
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79st1YYDBOXxoCRtjt44Yf0vnPPYE4eZJIAtMac6NBzx+nAmN3XLwhEsWz9MoAvXGcx9eqMJaH8B!
C4Sf7aUt1rWawU9X1aidD5w=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1307

cliff wright wrote:
> Well I've got all my TX problems sorted out fine now.
> However I am beginning to think that the receiver is somewhat noisy.
> When set up as per manual I am getting about a S3 internal noise level
> on sideband.
> My unit has had the RF stage modified as per the International Radio
> mods and also the balanced mixer. In the next few days I hope to have a
> look at this problem too, it is possible that the mixer balance is not
> very perfect for example.
> It was also fitted with back to back 1N4148 diodes across the RX input
> and these might just have been damaged with the tx problem.
> Has anyone else had a similar experience with this rig?
> Regards Cliff Wright ZL1BDA ex G3NIA.

============================
Is it really the receiver ? Suggest you check by connecting a dummy
load inside a metal can . Are you sure that your house electrical power
wiring with attached equipment is NOT causing the noise?

Frank GM0CSZ / KN6WH

From -2351482825480897462
X-Google-Thread: fc2a5,654384f37e30a915
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1191317606.379971.49740@g4g2000hsf.googlegroups.com>
<471cd5b4$0$9628$4c368faf@roadrunner.com>
<veWdnSIfKLZqMIPanZ2dnUVZ_hisnZ2d@comcast.com>
Subject: Re: DDS VFO with AD9850 / AD9851 and PIC16F877A
Date: Thu, 25 Oct 2007 22:00:14 -0400
X-Priority: 3

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Lines: 40
Message-ID: <47214a2d$0$24332$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 71.68.80.78
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:1308

"Jim" <kill-spam@no-spam.org> wrote in message
news:veWdnSIfKLZqMIPanZ2dnUVZ_hisnZ2d@comcast.com...
> On Mon, 22 Oct 2007 12:54:16 -0400, Jimmie D wrote:
>
>> I want to build something like this but without the PIC interface.
>> Instead I want to control it directly from a printer port. I am looking
>> for examples of software that can talk to DDS chips in this manner. As a
>> matter of fact I plan on building the device so that the whole thing will
>> fasten to the printer port or possible mounted internal to the PC. Any
>> help would be greatly appreciated.
>>
>>
>> Jimmie
>
>
>
>
> Alternatively, use WIN98 and the printer pins are "up for grabs" with
> fairly simple PC programs.
>
>
>   N6BIU
>

So I ve notice, I have a program I use to control some relays via the
printer port and they dont work with xp. I still have an old computer with
95 on it. For that matter I still have a Pentium 1 with windows 3.1. I
wanted to be able to build my DDS before I had to worry about an interface.
Will probably eventually use a USB port to control it . For now Ive never
built anything using DDS or a PIC and one at a time is enough to learn
about. I do have an old Z80 prototyping board that I could use for an
interface. Its been about 30 years since I have done assembly language
programing for it but I figure a weekend in the books should get me back up
to speed.

Jimmie

Jimmie

```
From 6157438375324420646
X-Google-Thread: fc2a5,86fd2a338943920c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!
news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 25 Oct 2007 22:38:00 -0500
Date: Fri, 26 Oct 2007 16:38:01 +1300
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: More on the Kenwood 820s.
References: <47200d29$1@clear.net.nz> <DOKdnTsuZ59w-b3anZ2dnUVZ8qaqnZ2d@pipex.net>
In-Reply-To: <DOKdnTsuZ59w-b3anZ2dnUVZ8qaqnZ2d@pipex.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 071025-1, 25/10/2007), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-6-202.dsl.telstraclear.net
Message-ID: <47216115$1@clear.net.nz>
X-Original-Trace: 26 Oct 2007 16:37:57 +1300, 121-72-6-202.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 45
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-AuthenticatedUsername: news10531
X-Trace:
sv3-4YsBvDZwSh511js9aT2UnKIHB3gRX0d5KGeiGEPhxSOHPfANeKkfzmO9uV6L+1ne49rNjFy6WfT6AI
v!89WPPSPswKtRGgQxrGvP/8scwv3Esxy30ErcnC1rR+tFCZom0VragGjAtg==
X-Complaints-To: abuse@clear.net.nz
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1309
```

Highland Ham wrote:

> cliff wright wrote:
>
>> Well I've got all my TX problems sorted out fine now.
>> However I am beginning to think that the receiver is somewhat noisy.
>> When set up as per manual I am getting about a S3 internal noise level
>> on sideband.
>> My unit has had the RF stage modified as per the International Radio
>> mods and also the balanced mixer. In the next few days I hope to have
>> a look at this problem too, it is possible that the mixer balance is
>> not very perfect for example.

>> It was also fitted with back to back 1N4148 diodes across the RX input
>> and these might just have been damaged with the tx problem.
>> Has anyone else had a similar experience with this rig?
>> Regards Cliff Wright ZL1BDA ex G3NIA.
>
> ============================
> Is it really the receiver ? Suggest you check by connecting a dummy
> load inside a metal can . Are you sure that your house electrical power
> wiring with attached equipment is NOT causing the noise?
>
> Frank GM0CSZ / KN6WH

Well Frank I've done just that. In the past I've had a lot of QRN from
"dirty" mains around here even if it is underground in this area.
So my first step was to ring the local power company.
However bad as it was when they had a faulty pole transformer about 600
metres or so away, it was variable according to loading etc.
This noise seems pretty constant under any conditions, just like the
noise from the mythical "Big Bang".
The mods I carried out are supposed to improve the noise floor of the
820S but although sensitivity is very good and any AGC action quietens
the noise considerably, I am still not entirely happy about the front
end of the RX. This is especially so as I have always been interested in
weak signal CW contacts on 20 metres especially to the Antipodes of New
Zealand in Spain and the western Med.
When it was done I had a few problems caused by a tiny solder bridge
on the IF board. This caused me to do a lot of messing around with the
front end before I found the problem as it had appeared to be RF stage
instabilty.
So I think that I will check out all the FET's and try and match even
more closely the pair in the balnced mixer.
Apparently Kenwood were not entirely happy with this circuit as
different units have at least 3 different source circuits for the
balanced mixer stage.
73"s Cliff Wright.

From 7150228209101304933
X-Google-Thread: fc2a5,86fd2a338943920c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!out04a.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!uns-
out.usenetserver.com!news.usenetserver.com!pc03.usenetserver.com!EVERESTKC.NET-
a2kHrUvQQWlmc!not-for-mail
Date: Fri, 26 Oct 2007 16:38:01 +1300
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: More on the Kenwood 820s.
References: <47200d29$1@clear.net.nz> <DOKdnTsuZ59w-b3anZ2dnUVZ8qaqnZ2d@pipex.net>

```
In-Reply-To: <DOKdnTsuZ59w-b3anZ2dnUVZ8qaqnZ2d@pipex.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 071025-1, 25/10/2007), Outbound message
X-Antivirus-Status: Clean
X-Original-Message-ID: <47216115$1@clear.net.nz>
X-Original-Trace: 26 Oct 2007 16:37:57 +1300, 121-72-6-202.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
X-Usenet-Provider: http://www.giganews.com
X-AuthenticatedUsername: news10531
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Postfilter: 1.3.36
Message-ID: <a344c$47216a56$4aded8bf$4834@EVERESTKC.NET>
X-Complaints-To: abuse@usenetserver.com
Lines: 45
X-Trace: a344c47216a56ef7b7d1a04834
Xref: g2news2.google.com rec.radio.amateur.homebrew:1310

Highland Ham wrote:
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>
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weak signal CW contacts on 20 metres especially to the Antipodes of New
```

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different units have at least 3 different source circuits for the
balanced mixer stage.
73"s Cliff Wright.

```
From -8023007321551699616
X-Google-Thread: fc2a5,84263c76c38f8eda
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y42g2000hsy.googlegroups.com!not-for-
mail
From:  zdnet1111@rediffmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: help with RF amplifier concept please
Date: Fri, 26 Oct 2007 03:39:03 -0700
Organization: http://groups.google.com
Lines: 5
Message-ID: <1193395143.098328.318330@y42g2000hsy.googlegroups.com>
References: <1193221141.371284.291050@v23g2000prn.googlegroups.com>
   <U_KdnQeCVo6n4ILanZ2dnUVZ_oOnnZ2d@web-ster.com>
   <u%QTi.81$M44.36@newsfe05.lga>
NNTP-Posting-Host: 213.42.2.24
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1193395143 27152 127.0.0.1 (26 Oct 2007 10:39:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Oct 2007 10:39:03 +0000 (UTC)
In-Reply-To: <u%QTi.81$M44.36@newsfe05.lga>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y42g2000hsy.googlegroups.com; posting-host=213.42.2.24;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1311
```

Thank you guys for the detailed explanations. The underlying concepts
are much clearer now

vij

```
From -4994237993638523340
X-Google-Thread: fc2a5,831f5467f1c6dc75,start
```

```
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,GB
Path: g2news2.google.com!news2.google.com!postnews.google.com!
q3g2000prf.googlegroups.com!not-for-mail
From:  xjx588 <xjx_588@126.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: =?gb2312?B?ucW2raOoMTkxMi0xOTQ5o6nD8bn6tMmy6Lr4NTI4sNGhorTJxvc0MDC8/
qOsQW50aXF1ZSAxOTEyLTE5NDkgUG9yY2VsYWluIHRlYXBvdCA1MjggY2hpbmF3YXJlIDQwMCBpbnZpdGF
0aW9uIHZpc2l0?=
Date: Sat, 27 Oct 2007 00:14:01 -0700
Organization: http://groups.google.com
Lines: 13
Message-ID: <1193469241.500304.108670@q3g2000prf.googlegroups.com>
NNTP-Posting-Host: 60.187.185.93
Mime-Version: 1.0
Content-Type: text/plain; charset="gb2312"
Content-Transfer-Encoding: base64
X-Trace: posting.google.com 1193469242 27584 127.0.0.1 (27 Oct 2007 07:14:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Oct 2007 07:14:02 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q3g2000prf.googlegroups.com; posting-host=60.187.185.93;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1312
```

```
QW50aXF1ZSAxOTEyLTE5NDkgUG9yY2VsYWluIHRlYXBvdCA1MjggY2hpbmF3YXJlIDQwMCBpbnZp
dGF0aW9uIHZpc2l0Cndvcmxk IE9ubHkgcHVyZSB2YXJpZXR5IHRoZSBhbnRpcXVlIGNoaW5hd2Fy
ZSBzZXJpZXMgYmlnIGNvbGxlY3Rpb24KaGFzIHRoZSB2ZXJ5IGJpZyBjb2xsZWN0aW9uIHZhbHVl
IGFuZCB0aGUgZGV2ZWxvcG1lbnQgZ29vZApvcHBvcnR1bml0eSEhIQpXZWJzaXRlIGh0dHA6Ly93
d3cueGp4NTg4LmNvbQpFLW1haWwgeGp4XzU4OEB0b20uY29tCnhqeF81ODhAMTI2LmNvbQpBbnRp
cXVlIGNvbGxlY3Rpb24gbWV0cm9wb2xpcwpDaXR5IFNoZW5nemhvdSBaaGVqaWFuZyBDaGluYQpU
aGFua3MgIQpKaWFueGlvbmcgWHUKCgoKucW2raOoMTkxMi0xOTQ5o6nD8bn6tMmy6Lr4NTI4sNGh
orTJxvc0MDC8/qOsCsirsaPV5tbQu6rD8bn6tMmy6Lr4NTI4sNGhorTJxvc0MDC8/sfrudvJzaGj
Csfrz+nUxM7SzfjVvs28xqyhosu1w/ejrLKix+vBqs+1ztKjrNC70LujoQrQ7L2o0NsKucXS1dD5
ucW2rcrVstjWrra8Cs341b6jumh0dHA6Ly93d3cueGp4NTg4LmNvbQq159PKo7p4anhfNTg4QHRv
bS5jb20KICAgICAgeGp4XzU4OEAxMjYuY29tCrXnu7CjujA1NzUtODMxMDM3MzEKyta7+qO6MTMw
MDI2MzI3ODIK
```

```
From -9073404488223631297
X-Google-Thread: fc2a5,c5da20865ed3975f,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o80g2000hse.googlegroups.com!not-for-
mail
From:  francesco.messineo@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: M2528 RF transistor
Date: Sat, 27 Oct 2007 03:57:16 -0700
```

Organization: http://groups.google.com
Lines: 9
Message-ID: <1193482636.948453.273980@o80g2000hse.googlegroups.com>
NNTP-Posting-Host: 62.10.69.218
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1193482637 3416 127.0.0.1 (27 Oct 2007 10:57:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Oct 2007 10:57:17 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.12) Gecko/20060216 Debian/1.7.12-1.1ubuntu2,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o80g2000hse.googlegroups.com; posting-host=62.10.69.218;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1313

Hello,

I'm looking for informations about the motorola VHF transistor M2528, datasheet or cross-reference. I can't seem to find anything useful on the net.
Thanks in advance

Francesco IZ8DWF

From -3161604816333621434
X-Google-Thread: fc2a5,6e2fe3cd80dc0f2a,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny07.POSTED!dfc6e646!not-for-mail
From: geek <wpapps@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Clemens SG 83C FS on ebay #290175082850
Message-ID: <g986i3hek1quspt3alvk9upcji8k2fk3oq@4ax.com>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 1
Date: Sat, 27 Oct 2007 11:31:24 GMT
NNTP-Posting-Host: 71.190.199.92
X-Complaints-To: abuse@verizon.net
X-Trace: trndny07 1193484684 71.190.199.92 (Sat, 27 Oct 2007 07:31:24 EDT)
NNTP-Posting-Date: Sat, 27 Oct 2007 07:31:24 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1314
X-Original-Bytes: 769

```
From 588523897291805552
X-Google-Thread: fc2a5,345766576e2bdb29,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!wn14feed!
worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: TUBES + OTHER STUFF
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <QVFUi.27167$kj1.15825@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: ad0da292bcba145f4716b2ffd3b51a8e
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1193487088
ad0da292bcba145f4716b2ffd3b51a8e (Sat, 27 Oct 2007 12:11:28 GMT)
NNTP-Posting-Date: Sat, 27 Oct 2007 12:11:28 GMT
Organization: AT&T Worldnet
Date: Sat, 27 Oct 2007 12:11:28 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1315
```

Have the current tubes listed at:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

12AT7WA, 12BH7A, 12BY7
71A CERAMIC BASE
5691, 5692, 5693

Check back often:

Heytubeguy

```
From -2184044159678479202
X-Google-Thread: fc2a5,86fd2a338943920c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y27g2000pre.googlegroups.com!not-for-
mail
From:  Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: More on the Kenwood 820s.
Date: Sat, 27 Oct 2007 08:36:34 -0700
Organization: http://groups.google.com
```

```
Lines: 28
Message-ID: <1193499394.096922.75240@y27g2000pre.googlegroups.com>
References: <47200d29$1@clear.net.nz>
NNTP-Posting-Host: 218.215.129.150
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1193499394 30421 127.0.0.1 (27 Oct 2007 15:36:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Oct 2007 15:36:34 +0000 (UTC)
In-Reply-To: <47200d29$1@clear.net.nz>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.8) Gecko/
20071008 Firefox/2.0.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y27g2000pre.googlegroups.com; posting-host=218.215.129.150;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1317
```

On Oct 25, 1:27 pm, cliff wright <c.c.wri...@paradise.net.nz> wrote:

> Well I've got all my TX problems sorted out fine now.
> However I am beginning to think that the receiver is somewhat noisy.
> When set up as per manual I am getting about a S3 internal noise level
> on sideband.
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> It was also fitted with back to back 1N4148 diodes across the RX input
> and these might just have been damaged with the tx problem.
> Has anyone else had a similar experience with this rig?
> Regards Cliff Wright ZL1BDA ex G3NIA.

Remove ALL the mods. Take it back to original - that way, you will be looking for a fault rather than trying to figure out if its the mods, faulty mods, something else, etc etc.

The original design engineers had a pretty good idea of how it was supposed to work, published specifications in the manual, are based on this. Your battling with "mods" - how can find any fault with extraneous mods?

Get an established reference point, ie the service manual. Go forward from there.....

Andrew VK3BFA.

```
From 1715591582973838495
X-Google-Thread: fc2a5,551366c5f2e61b96
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!
```

newsfeed-3001.bay.webtv.net!newssorter-3001.bay.webtv.net!not-for-mail
From: ogrowup@webtv.net (Padraigh ProAmerica)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ATTN Homebrewers!
Date: Sat, 27 Oct 2007 11:56:56 -0400
Organization: WebTV Subscriber
Lines: 12
Message-ID: <9639-47235FC8-467@storefull-3111.bay.webtv.net>
References: <1193170112.901610.308460@q3g2000prf.googlegroups.com>
NNTP-Posting-Host: localhost.webtv.net
Mime-Version: 1.0 (WebTV)
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
X-WebTV-Signature: 1
     ETAtAhUAlgTKMx1jmVnii5YTVQEzly4Yvy4CFGloPSDjrrf19v+HCW0jCRkR1ZbG
Content-Disposition: Inline
Xref: g2news2.google.com rec.radio.amateur.homebrew:1318

Generally, I'd agree- this would seem to be a job for an
industrial/research area (I know it's beyond my [admitedly limited]
abilities)> Yet, with 300,000,000 people in this country...never
underestimate what's possible.

"Never tell people how to do things. Tell them what to do and they will
surprise you with their ingenuity." Gen. George S. Patton, Jr.

AMATEUR RADIO: A National resource!
For more information about amateur radio go to
<www.arrl.org>

From 8239528376454398310
X-Google-Thread: fc2a5,c5da20865ed3975f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!z9g2000hsf.googlegroups.com!not-for-mail
From: francesco.messineo@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: M2528 RF transistor
Date: Sat, 27 Oct 2007 10:18:56 -0700
Organization: http://groups.google.com
Lines: 25
Message-ID: <1193505536.701314.186450@z9g2000hsf.googlegroups.com>
References: <1193482636.948453.273980@o80g2000hse.googlegroups.com>
   <70h6i3d8dmu5gi6uv4ooa6d6tm96qa3m1f@4ax.com>
NNTP-Posting-Host: 62.10.69.218
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1193505536 9576 127.0.0.1 (27 Oct 2007 17:18:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Oct 2007 17:18:56 +0000 (UTC)

```
In-Reply-To: <70h6i3d8dmu5gi6uv4ooa6d6tm96qa3m1f@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.12) Gecko/
20060216 Debian/1.7.12-1.1ubuntu2,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: z9g2000hsf.googlegroups.com; posting-host=62.10.69.218;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1319

Hi Allison,

On 27 Ott, 16:11, no.s...@no.uce.bellatlantic.net wrote:
> On Sat, 27 Oct 2007 03:57:16 -0700, francesco.messi...@gmail.com
> wrote:
>

>
> Francesco,
>
> Motorola  internal house part number parts.  Motorola
> in their day would often ahve at least 4 possible part numbers for
> the same device.  EIA 2N numbers, MRF, Motorola PN and custom
> for client.  the latter two were often the most difficult as they
> could include screening for matched pairs/quads or other
> special testing.
....

Thanks for informations, looks like I need to guess. Indeed it's a VHF
(130-170 MHz) 12V device, power is unkown, looking at the case should
be in the range 10-20 W.
I'll see what mrf parts could be similar.

Francesco



From 2499764319815879253
X-Google-Thread: fc2a5,47688199d13d68b,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!t8g2000prg.googlegroups.com!not-for-
mail
From:  eternalsquire@comcast.net
Newsgroups: rec.radio.amateur.homebrew
Subject: UHF ATV converter
Date: Sat, 27 Oct 2007 12:41:06 -0700
Organization: http://groups.google.com
Lines: 8
Message-ID: <1193514066.047599.145930@t8g2000prg.googlegroups.com>
NNTP-Posting-Host: 72.171.0.147
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1193514072 12653 127.0.0.1 (27 Oct 2007 19:41:12 GMT)
```

X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Oct 2007 19:41:12 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: t8g2000prg.googlegroups.com; posting-host=72.171.0.147;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1320

All,

To transmit a video signal on a UHF or cable television channel
(signal will be low power and transmitted along a shielded wire to
other equipment), is all I need to do is mix an baseband video signal
(S-video) with the carrier of the channel in question? Or, is there
something more I need to do?

From -5016577773009734311
X-Google-Thread: fc2a5,47688199d13d68b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!
news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UHF ATV converter
Date: Sat, 27 Oct 2007 19:59:05 +0000 (UTC)
Organization: MGT Consulting
Lines: 23
Message-ID: <slrnfi75uo.sb8.gsm@cable.mendelson.com>
References: <1193514066.047599.145930@t8g2000prg.googlegroups.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-139-155-181.bb.netvision.net.il
X-Trace: marvin.inside.misty.com 1193515145 4060 89.139.155.181 (27 Oct 2007
19:59:05 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Sat, 27 Oct 2007 19:59:05 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1321

eternalsquire@comcast.net wrote:

> To transmit a video signal on a UHF or cable television channel
> (signal will be low power and transmitted along a shielded wire to
> other equipment), is all I need to do is mix an baseband video signal
> (S-video) with the carrier of the channel in question? Or, is there
> something more I need to do?

Not quite. In general TV signals are LSB reduced carrier with the audio as
an FM signal. The exact spacing between channels, and audio carrier frequency
varies from country to country. France uses AM audio.

ATV signals in the 430 mHz band are the same as TV signals, 1.2gHz and up use
FM video. I don't know about the 900 mHz band.

The easiest thing to do would be to take the modulator out of an old VCR.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
IL Voice: (07)-7424-1667 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/

From -3738049345376550433
X-Google-Thread: fc2a5,a823e1fdb32c2a6b,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe02.lga.POSTED!53ab2750!not-for-mail
From: sdeyoreo@hotmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: How do you make RF circuit boards?
Message-ID: <3hq7i3h8mp94t0iudmcmddvv4su07l7amd@4ax.com>
X-Newsreader: Forte Free Agent 2.0/32.640
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 7
NNTP-Posting-Host: oobjlmbcmhkmfiifpbilmllenieaofnl
X-Trace:
pdjoodfomhkjcooblbdnpiohcfhaihogfigddcfhllnobigfoobjlmbcmhkmfiiflakdkmdilckcogblpg
gbnmhgolmcgeomoiddoondpffjcbiihhjdimobjiginbefecpcfdalnnloobep
NNTP-Posting-Date: Sat, 27 Oct 2007 17:46:57 MST
Date: Sat, 27 Oct 2007 20:52:40 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:1322

Sometimes, at work, I need to make, or have made, an RF PCB board to
test an RF part. For example, a surface mount 2-way power divider, up
to say 4 GHz. We have regular g10? copper clad, a PCB millimg machine.
Is a 50 ohms trace about .1 in wide in this material? What is
advantage of FR and Duriod? Is TXLINE a good program to determine
trace widths? Any good books on RF boards?
Any tips would be very appriciated.

From 7394667836801569495
X-Google-Thread: fc2a5,47688199d13d68b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!news4.google.com!sn-xt-sjc-05!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Doug Smith W9WI <w9wi@invalid.nospam>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UHF ATV converter
Date: Sat, 27 Oct 2007 19:55:55 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-Id: <pan.2007.10.28.00.55.54.42671@invalid.nospam>
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
References: <1193514066.047599.145930@t8g2000prg.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@supernews.com
Lines: 18
Xref: g2news2.google.com rec.radio.amateur.homebrew:1323

On Sat, 27 Oct 2007 12:41:06 -0700, eternalsquire wrote:
> To transmit a video signal on a UHF or cable television channel
> (signal will be low power and transmitted along a shielded wire to
> other equipment), is all I need to do is mix an baseband video signal
> (S-video) with the carrier of the channel in question? Or, is there
> something more I need to do?

S-video is a component signal - it splits the chroma and luma. You're going to have to reassemble them before you can modulate it on a RF carrier, if you want a standard TV to receive it.

I don't think most amateur TV stations use a VSB lower-sideband filter. They seem to work OK - though they're generally going for legibility, not high picture quality!

The other suggestion, that you use a modulator from an old VCR, is a good one. In America that'll be VHF instead of UHF.

From 7471315549342122347
X-Google-Thread: fc2a5,649a3d4a1de56598,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!post02.iad01!roadrunner.com!not-for-mail
Date: Sat, 27 Oct 2007 15:01:26 -1000
From: Rick Frazier <rickf@rickfrazier.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Anyone have Autek WM-1 Schematic?
Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Transfer-Encoding: 7bit
Lines: 37
Message-ID: <4723df20$0$32477$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 76.83.137.53
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:1324

In the spirit of homebrew, I would prefer to repair what I have if I'm not building something new, even if the repair is on somthing commercially produced.

My Autek WM-1 (lighted version) "computing SWR/Power meter" seems to have quit "computing" in that it doesn't show an SWR reading.

In true "dont have a clue or schematic, shotgun approach fashion" I replaced all three ICs with high quality sockets and new ICs in case it was one of them. Also hit every connection with fresh solder in case of a hard to see cold joint. No Joy...

Primary Symptom: no SWR reading, PWR is OK.
When I reverse the cable connections, I see lower power, dependent on the SWR, so I know the match isn't perfect... Of course, swapping the cables only proved that I could vary my SWR and it wasn't 1:1, not that both halves of the sensor board are working, so swapped red & black wires on the sensor board end, tried sending power through both directions. Still no SWR, but at least now I know both halves of sensor board are good. Swapped wires at main unit end, checked again, now I know the wires from the remote head are good too.

Both meters seem to work fine, as I get the same scale deflection on each meter as I check them with a VOM in Ohms position. So now I'm down to one of the discrete components somewhere in circuit.

Is there a schematic out there for these units? I would much prefer to fix it myself than send it off to Autek. If nothing else, now that I've invested time in it, there is the challenge of fixing such a relatively low-tech device that's driving me to not admit failure.

If no schematic is available, then I will have to draw my own, (reverse engineer the circuit) and at my current rate of "spare time" that might take a month or more...

Thanks
-- Rick AH7H

From -7402655006311216360
X-Google-Thread: fc2a5,a823e1fdb32c2a6b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!

not-for-mail
NNTP-Posting-Date: Sat, 27 Oct 2007 20:47:06 -0500
Newsgroups: rec.radio.amateur.homebrew
From: gwhite@alum.mit.edu (Doug White)
Subject: Re: How do you make RF circuit boards?
References: <3hq7i3h8mp94t0iudmcmddvv4su07l7amd@4ax.com>
X-Newsreader: News Xpress 2.01
Date: Sun, 28 Oct 2007 01:47:07 GMT
Message-ID: <9KOdnWyz2uKHd77anZ2dnUVZ_rDinZ2d@rcn.net>
Lines: 25
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 146.115.115.96
X-Trace: sv3-HbbNkpG2Li33xsvMDKBgM5V/pNU5yiwROw2xFlzNLeDRvEI4E3p756eL+b6/
eknXMyYg4dQ7+k0i2at!dk336LJOk+pCvuxYLsSllaB/JJrWDeEI3q38j1m1VMLu96vhjmrG9Kxcuz/
xKbJaxXy+ahHh15gP!7NI=
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1325

Keywords:
In article <3hq7i3h8mp94t0iudmcmddvv4su07l7amd@4ax.com>, sdeyoreo@hotmail.com wrote:
>Sometimes, at work, I need to make, or have made, an RF PCB board to
>test an RF part. For example, a surface mount 2-way power divider, up
>to say 4 GHz. We have regular g10? copper clad, a PCB millimg machine.
>Is a 50 ohms trace about .1 in wide in this material? What is
>advantage of FR and Duriod? Is TXLINE a good program to determine
>trace widths? Any good books on RF boards?
>Any tips would be very appriciated.

I use APPCAD (free) to calculate line widths & impedances:

http://www.hp.woodshot.com/appcad/appcad.htm

For a given dielectric & impedance, the ratio of line width to thickness is constant, so thinner boards mean thinner lines for a given impedance. A 1/16" G-10 board requires about 110 mils of width for 50 Ohms.

G10/FR4 is OK up to several GHz, but it begins to get lossy and the impedance won't be as tightly controlled as with a "real" RF board material. It's OK to get a signal from A to B, but it ins't good for filters.

Doug White

From -8100789837275292236
X-Google-Thread: fc2a5,649a3d4a1de56598

X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 27 Oct 2007 22:33:14 -0500
From: Barnard Peters <one@two.com>
Organization: well
Subject: Re: Anyone have Autek WM-1 Schematic?
Date: Sat, 27 Oct 2007 21:33:14 -0600
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table)
Message-Id: <pan.2007.10.28.03.33.14.927074@blueplanet>
Newsgroups: rec.radio.amateur.homebrew
References: <4723df20$0$32477$4c368faf@roadrunner.com>
Reply-To: three@four.com
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 15
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.8.221.21
X-Trace: sv3-S0kr+JGCdUJOpBzhmJYagfJTOAL/
NbhZRbLxwlN0D4bNVzJFAJr2fYjeVXT0WRzi3umqcGF0yKcsSJI!
kRbwTCdy9O3cTRVTHKMzS6Ar772dxUYeWzkH5YoCBIWvWNhyXHG0hFPV73B952BiZnyDVHXFw5F3!
E6d92AvhR/o2caJm8DhifYU=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1326

On Sat, 27 Oct 2007 15:01:26 -1000, Rick Frazier wrote:

> In the spirit of homebrew, I would prefer to repair what I have if I'm not
> building something new, even if the repair is on somthing commercially
> produced.
>

<snip>

> -- Rick AH7H

Reed some of these reviews and they will tell you what is wrong with your meter

http://www.eham.net/reviews/detail/234

Pretty much the impression I got was to avoid Autek products all together

From 1722116180604204878
X-Google-Thread: fc2a5,47688199d13d68b
X-Google-Attributes: gidfc2a5,public,usenet

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UHF ATV converter
Date: 28 Oct 2007 04:33:25 GMT
Organization: The National Capital FreeNet
Lines: 39
Message-ID: <fg13el$11k$1@theodyn.ncf.ca>
References: <1193514066.047599.145930@t8g2000prg.googlegroups.com>
<pan.2007.10.28.00.55.54.42671@invalid.nospam>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1193546005 1076 134.117.136.48 (28 Oct 2007 04:33:25 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 28 Oct 2007 04:33:25 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1327

Doug Smith W9WI (w9wi@invalid.nospam) writes:

> I don't think most amateur TV stations use a VSB lower-sideband filter.
> They seem to work OK - though they're generally going for legibility, not
> high picture quality!
>
> The other suggestion, that you use a modulator from an old VCR, is a good
> one. In America that'll be VHF instead of UHF.
>

I don't know what's being used nowadays, but it is interesting how it
has been in the past.

Up till 1976, pretty much all articles about ATV would be about high
level modulating an existing transmitter. Do it that way, and the
only way to get VSB is with a filter that can tolerate the power level.

The one exception I've seen was an early sixties article in QST where the
author (a QST staffer if I recall) took the modulated RF output of a
surveillance camera and fed it into an upconverter to get up to UHF.
Likely that wasn't used much since it was more complicated.

Then in 1976, there was an article in "Ham Radio" about modulating
an oscillator running at about 50MHz, and then converting it up
and using a linear amplfication chain. More complicated but likely
put out a better signal than most ATV transmitters at the time. I
seem to recall there was even an LC VSB filter at the "IF" frequency.

I would have thought by now it had switched over to that sort of
thing, but I don't really know.

A lot or most of those RF modulators I've looked at have an SAW
filter, so I assume the output is close to VSB. Feed it into a
mixer stage, then some stages of linear amplification and there
you go.

Michael VE2BVW

```
From -2256081999000912338
X-Google-Thread: fc2a5,8169f78a83365cf5,start
X-Google-Thread: fc8b1,8169f78a83365cf5,start
X-Google-Thread: 10b9c8,8169f78a83365cf5,start
X-Google-Thread: 111d0a,8169f78a83365cf5,start
X-Google-Thread: 113975,8169f78a83365cf5,start
X-Google-Attributes: gidfc2a5,gidfc8b1,gid10b9c8,gid111d0a,gid113975,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out04b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
newsfeed.yul.equant.net!newspeer.monmouth.com!newsswitch.lcs.mit.edu!bloom-
beacon.mit.edu!panix!rri.panix.com!robomod!not-for-mail
From: "bill.meara@gmail.com" <bill.meara@gmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.info,sci.electr
onics.basics,sci.astro.amateur
Subject: SolderSmoke 67 Podcast
Followup-To:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.basics,sc
i.astro.amateur
Date: Sun, 28 Oct 2007 03:31:26 EDT
Organization: http://groups.google.com
Lines: 51
Approved: RRI Admin <rec-radio-info-request@panix.com>
Message-ID: <1193555524.065417.210840@22g2000hsm.googlegroups.com>
NNTP-Posting-Host: panix2.panix.com
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: reader1.panix.com 1193556686 4156 166.84.1.2 (28 Oct 2007 07:31:26 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 28 Oct 2007 07:31:26 +0000 (UTC)
X-RRI-Policy: http://www.panix.com/~rram/usenet/rri/index.html
X-RRI-Info-1: Send submissions to             rec-radio-info@panix.com
X-RRI-Info-2: Send technical complaints to    rec-radio-info-request@panix.com
X-RRI-Info-3: Send complaints about policy to rec-radio-info-request@panix.com
X-Comment-1: The moderators do not necessarily agree or disagree with this
article.
X-Comment-2: Moderators do not verify the accuracy of posted information.
X-Comment-3: Acceptance does not convey approval of any external references.
X-Robomod: STUMP, ichudov@algebra.com (Igor Chudov), C++/Perl/Unix Consulting
X-Moderation-1: Hassle-Free commercial hosting of moderation sites available
X-Moderation-2: See http://www.algebra.com/~ichudov/stump
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
```

Injection-Info: 22g2000hsm.googlegroups.com; posting-host=81.208.83.208;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1328
rec.radio.amateur.boatanchors:1483 rec.radio.info:322 sci.electronics.basics:11815
sci.astro.amateur:13562

SolderSmoke!
A SHOW FOR ELECTRONICS HOMEBREWERS!

http://www.soldersmoke.com

Listen at: http://www.soldersmoke.com

SolderSmoke #67

October 28, 2007
Dino Dig, train ride, balloon launch.
Radio in Rome.
Audio efforts.
Sputnik.
Moore's law.
On to Mars!
1939 Video.
SSB Islander?
ARRL HB Challenge?
Search Engine for Parts.
MAILBAG: Alan VK2ZAY building antennas, Eric NM5M building converters,
Claus OZ1LQB on EU regs and solder, Scott -- listening in Iraq.

Tired of listening to the Busted or BBC on your I-Pod?   Wouldn't you
like to be able to carry with
you the kinds of ham radio conversations that you
listen to while in your radio shack? Tune in to SolderSmoke!

RSS FEED: You can subscribe to the program, have
them downloaded to your MP-3 player, and listen to
them at your convenience. To subscribe, just cut and
paste this URL into your I-poder (or similar)
software.
http://www.soldersmoke.com/soldersmoke.rss

If you don't have an MP3 player you can just go to the
site below and listen to the latest program (and
earlier editions) using the audio software on your
computer.

http://www.soldersmoke.com

All the programs are available here.

I hope you enjoy the program. Please send us
feedback.

```
73 from Rome
Bill M0HBR N2CQR CU2JL
http://www.gadgeteer.us




From 8910767934846859266
X-Google-Thread: fc2a5,9dbcba2913d85ee3,start
X-Google-Thread: 108228,9dbcba2913d85ee3,start
X-Google-Thread: 108122,9dbcba2913d85ee3,start
X-Google-Thread: fc8b1,9dbcba2913d85ee3,start
X-Google-Thread: 1109af,9dbcba2913d85ee3,start
X-Google-Attributes: gidfc2a5,gid108228,gid108122,gidfc8b1,gid1109af,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!cycny01.gnilink.net!
spamkiller2.gnilink.net!gnilink.net!trndny09.POSTED!dfc6e646!not-for-mail
From: geek <wpapps@verizon.net>
Newsgroups: rec.radio.amateur.homebrew,alt.ham-
radio.marketplace,rec.radio.amateur.equipment,rec.radio.amateur.boatanchors,rec.ra
dio.swap
Subject: FS: New Clemens SG 83C Signal Generator 50 KHz - 54 MHz
Message-ID: <4e09i39jjphh713rk08bugn67hs9kufv7t@4ax.com>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 3
Date: Sun, 28 Oct 2007 12:40:37 GMT
NNTP-Posting-Host: 71.190.199.92
X-Complaints-To: abuse@verizon.net
X-Trace: trndny09 1193575237 71.190.199.92 (Sun, 28 Oct 2007 08:40:37 EDT)
NNTP-Posting-Date: Sun, 28 Oct 2007 08:40:37 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1329 alt.ham-
radio.marketplace:332 rec.radio.amateur.equipment:1182
rec.radio.amateur.boatanchors:1484 rec.radio.swap:1511

See Ebay item # 290175082850       Auction ends Nov 2 2007

http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&rd=1&item=290175082850&ssPageName=STRK:MESE:IT&ih=019



From 7709921559053632298
X-Google-Thread: fc2a5,afe938a54d430aec
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 28 Oct 2007 08:14:37 -0500
From: "gb" <w9nogbspam@arrlspamno.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1193169579.793639.258500@q3g2000prf.googlegroups.com>
```

Subject: Re: FT-707 picture
Date: Sun, 28 Oct 2007 08:14:26 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3205
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3205
X-RFC2646: Format=Flowed; Original
Message-ID: <FtKdnX1_bYygFrnanZ2dnUVZ_oOnnZ2d@comcast.com>
Lines: 28
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.14.244.109
X-Trace: sv3-dhghXcxi2In5W5bnIXSOcARJ9B88SD+0QKCzgogKm/
1QCVoJIG83wfaTHqrfR3RFmlqyYwjzX+YioYc!
eJkr3cGkvc9+LJZ4dTa8AIGaiEckZrjZbzbVKrswQa5aykBxQicNPXIG5SB1VENXoqYBjKxY7zn6!
73SGjoLHcN4D3rZrUCDsfEMBUSJsrg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1330

Send request to FOX TANGO --
Yaesu International User's Group (they have a boneyard of Yaesu parts)

http://foxtango.org/foxtango001.htm

gb

<francesco.messineo@gmail.com> wrote in message news:1193169579.793639.258500@q3g2000prf.googlegroups.com...
> Hello,
>
> this is probably a bit OT here (any better group?). I'd need a picture
> of the RF-Unit of a FT-707 (lot 11 or newer). The unit should be
> PB-2201 (older sets have another board) and is located under the top
> cover. The unit can be flipped by removing 5 screws and without
> disconnecting any cable. I'm trying to determine if a mod I found
> there is from the previous owner or from Yaesu itself and also trying
> to fix the rig which has an exceptionally large set of faults. The rig
> should have an unmodified (and never modified if possible) 40m band (7
> to 7.5 MHz).
> The email address is valid.
>
> Thanks in advance
>
> Francesco IZ8DWF
>

From 6646691628802246630
X-Google-Thread: fc2a5,a823e1fdb32c2a6b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 28 Oct 2007 08:25:32 -0500
Message-ID: <47248DCA.8030505@bloomer.net>
Date: Sun, 28 Oct 2007 13:25:30 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To: sdeyoreo@hotmail.com
Subject: Re: How do you make RF circuit boards?
References: <3hq7i3h8mp94t0iudmcmddvv4su07l7amd@4ax.com>
In-Reply-To: <3hq7i3h8mp94t0iudmcmddvv4su07l7amd@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 27
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-6iQvUhOoJB6BEiiKAP/0sd9r5znpzHIMRm5XifxG0uBu2hEjxRuUDfNzHvxxA/
c442JpWGeq01ElZZz!
GpQzmjNsrYejBUym6ZQDQehwxWSGnHRnABkag2YiRXVLQVu2Ef870L10rTAUnDRNhg==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1331

If you know the Er (dielectric constant), and the thickness if the substrate, here is a nice website to calculate microstrip impedance...

http://www.microwaves101.com/encyclopedia/calmstrip.cfm

FR is basically just G-10 but fire retardant. G-10 is generally considered OK up to about 1 GHz. Duroid has a higher Er and thus thinner boards can be used and this will make a 50 Ohm line narrower and reduce the line's radiation.

Scott
N0EDV

sdeyoreo@hotmail.com wrote:
> Sometimes, at work, I need to make, or have made, an RF PCB board to
> test an RF part. For example, a surface mount 2-way power divider, up

> to say 4 GHz. We have regular g10? copper clad, a PCB millimg machine.
> Is a 50 ohms trace about .1 in wide in this material? What is
> advantage of FR and Duriod? Is TXLINE a good program to determine
> trace widths? Any good books on RF boards?
> Any tips would be very appriciated.

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

```
From 916141852828536172
X-Google-Thread: fc2a5,a823e1fdb32c2a6b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!newsfeed01.chello.at!newsfeed.arcor.de!newsspool4.arcor-online.net!
news.arcor.de.POSTED!not-for-mail
From: "Ralf Ballis" <rb.news@arcor.de>
Newsgroups: rec.radio.amateur.homebrew
References: <3hq7i3h8mp94t0iudmcmddvv4su07l7amd@4ax.com>
<9KOdnWyz2uKHd77anZ2dnUVZ_rDinZ2d@rcn.net>
Subject: Re: How do you make RF circuit boards?
Date: Sun, 28 Oct 2007 14:35:30 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Lines: 22
Message-ID: <4724901f$0$27120$9b4e6d93@newsspool1.arcor-online.net>
Organization: Arcor
NNTP-Posting-Date: 28 Oct 2007 14:35:27 CET
NNTP-Posting-Host: e3394c24.newsspool1.arcor-online.net
X-Trace: DXC=DmWl]oH?KAbg`45cDR8l?
oic==]BZ:afn4Fo<]lROoRaFl8W>\BH3Yb`<j60I1Bf\d[6fPGO]?5UcjZIc2FG^L8cO^nb:fPBKLn
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:1332
```

"Doug White" <gwhite@alum.mit.edu> schrieb im Newsbeitrag
news:9KOdnWyz2uKHd77anZ2dnUVZ_rDinZ2d@rcn.net...
> I use APPCAD (free) to calculate line widths & impedances:
>
> http://www.hp.woodshot.com/appcad/appcad.htm

Take the newer one at:

http://www.hp.woodshot.com/appcad/version302/setup.exe

Regards,

Ralf, DL2MRB

From 395567861239325001
X-Google-Thread: 1062f2,f0c30feb49dc6746,start
X-Google-Thread: 108122,f0c30feb49dc6746,start
X-Google-Thread: fc2a5,f0c30feb49dc6746,start
X-Google-Thread: 1109af,f0c30feb49dc6746,start
X-Google-Thread: 1131b0,f0c30feb49dc6746,start
X-Google-Attributes:
gid1062f2,gid108122,gidfc2a5,gid1109af,gid1131b0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller2.gnilink.net!gnilink.net!trndny02.POSTED!dfc6e646!not-for-mail
From: geek <wpapps@verizon.net>
Newsgroups:
misc.industry.electronics.marketplace,rec.radio.amateur.equipment,rec.radio.amateu
r.homebrew,rec.radio.swap,sci.electronics.repair
Subject: FA: New Clemens SG 83C Rare Vintage Signal Generator
Message-ID: <9rg9i3lotapt3ht140u15nj785467oekje@4ax.com>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 3
Date: Sun, 28 Oct 2007 17:16:55 GMT
NNTP-Posting-Host: 71.190.199.92
X-Complaints-To: abuse@verizon.net
X-Trace: trndny02 1193591815 71.190.199.92 (Sun, 28 Oct 2007 13:16:55 EDT)
NNTP-Posting-Date: Sun, 28 Oct 2007 13:16:55 EDT
Xref: g2news2.google.com misc.industry.electronics.marketplace:133
rec.radio.amateur.equipment:1184 rec.radio.amateur.homebrew:1333
rec.radio.swap:1514 sci.electronics.repair:13101
X-Original-Bytes: 1146

Ebay auction ends Nov 2, 2007

http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&rd=1&item=290175082850&ssPageName=STRK:MESE:IT&ih=019

From -3893528598233747180

X-Google-Thread: fc2a5,7b8513d018362be1,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!eweka.nl!lightspeed.eweka.nl!213.24.141.54.MISMATCH!newsfeed.gamma.ru!Gamma.RU!sn-xt-sjc-02!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: John Tartar <john_tartar@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ARRL Homebrew Challenge
Date: Sun, 28 Oct 2007 20:10:27 -0000
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
User-Agent: Xnews/5.04.25
X-Complaints-To: abuse@supernews.com
Lines: 9
Xref: g2news2.google.com rec.radio.amateur.homebrew:1334

The deadline for the ARRL homebrew challenge has passed and I hear that the ARRL received 4 entries, all NO computer radios. NONE were in the computer assisted category. Publication is scheduled for Feb 2008 QST

A Yahoo group was started to discuss developments.
http://groups.yahoo.com/group/ARRLHBC/

Some of the entrants have posting info about their entries there.

From 4621086882144715309
X-Google-Thread: fc2a5,f25fff1af176a89b,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.germany.com!newsfeed01.sul.t-online.de!t-online.de!news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!newsfe6-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Theo" <theodore.twyler@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Denco Coils Anyone?
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <VI8Vi.114604$j16.83018@newsfe6-gui.ntli.net>
Date: Sun, 28 Oct 2007 23:13:57 GMT
NNTP-Posting-Host: 86.15.196.244
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe6-gui.ntli.net 1193613237 86.15.196.244 (Sun, 28 Oct 2007 23:13:57 GMT)
NNTP-Posting-Date: Sun, 28 Oct 2007 23:13:57 GMT
Organization: ntl Cablemodem News Service
Xref: g2news2.google.com rec.radio.amateur.homebrew:1335

Can any UK subscribers to this group help?
I require the following Denco Maxi-Q coils:-

Range 3 DP (Dual Purpose) RED
Range 4 DP (Dual Purpose) RED
(These are the ones which fit B9A bases).

Willing to pay reasonable price including postage.
Any assistance would be greatly appreciated.

From 327537007382142531
X-Google-Thread: fc2a5,62acf353310192c6,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe12.lga.POSTED!53ab2750!not-for-mail
From: Jeff James <w2nbc@optonline.net>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Buy and Sell your Tube Gear!
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 6
Message-ID: <FZbVi.11945$U07.48@newsfe12.lga>
Date: Sun, 28 Oct 2007 22:56:37 -0400
NNTP-Posting-Host: 68.196.6.3
X-Complaints-To: abuse@cv.net
X-Trace: newsfe12.lga 1193626597 68.196.6.3 (Sun, 28 Oct 2007 19:56:37 MST)
NNTP-Posting-Date: Sun, 28 Oct 2007 19:56:37 MST
Organization: Optimum Online
Xref: g2news2.google.com rec.radio.amateur.homebrew:1336

The Boatanchor Classifieds..
Free classifieds dedicated to vintage Amateur Radio..

http://www.dealamerica.com/deal/cgi-bin/ads/bcads.cgi

Thanks for your support

From 5551322654373833320
X-Google-Thread: fc2a5,be44564c6c699725
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!sn-xt-sjc-02!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 811 home brew
Date: Sun, 28 Oct 2007 23:06:35 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13iaqj4doqo8aee@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <1192687512.632985.164050@e9g2000prf.googlegroups.com>
<471d1940$0$28834$4c368faf@roadrunner.com>
In-Reply-To: <471d1940$0$28834$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 24
Xref: g2news2.google.com rec.radio.amateur.homebrew:1337

Jimmie D wrote:

> If you really want it to look impressive build it on some old telco open
> frame racks.

That's too high tech. I built mine on plywood and Masonite.

There is a writeup of my 811 project at http://schmidling.com/radio.htm

I need to update it but you will get the idea.

It is a single 811A modulated by a pair of them using two separate power supplies. Both supplies, RF Deck and Modulator are on wood. The only aluminum chassis is the VFO Exciter.

Complete with CBS Audio Chain and EQ, it is the best sounding rig I have ever owned.

js

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

From 9005493280155058428
X-Google-Thread: fc2a5,44260c7307a77725,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!headwall.stanford.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Assuming "homebrew" includes "modify a commercial product"....
Date: 29 Oct 2007 00:27:50 -0500
Organization: Kansas State University
Lines: 39
Message-ID: <fg3r0m$iq5@unix1.cc.ksu.edu>
NNTP-Posting-Host: unix1.cc.ksu.edu
X-Trace: cnn.cns.ksu.edu 1193635671 22312 129.130.12.3 (29 Oct 2007 05:27:51 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Mon, 29 Oct 2007 05:27:51 +0000 (UTC)
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1338
```

Assuming "homebrew" includes "modifying a commercial product", I just did something that I'd like to pass on to others who might want to do the same thing.

I've had a Model MFJ-1701 "ANTENNA SELECTOR" switch for years. Basically, a rotary 6-position switch connects a "common" SO-239 connector to one of the six SO-239 antennas connectors while grounding the remaining five. Note that the "common" connector is always connected to one of the antennas, and the switch can NOT ground all SIX antennas, as might be nice when not using any of them.

I don't know if their current design is the same, but I got the bright idea that, if I removed the "stop" on the rotary switch, at least one of the new positions (there are now 12!) would ground ALL SIX antennas.

It was easy enough (remove four screws) to get into the box. I wasn't in the mood to un-solder the wiring, but by removing the knob and the nut which held the rotary switch to the box, I could bend the wires enough that the wafer came part-way out of the box. I would like to have just bent the "stop" tab out of the way, but my wire-bending didn't get the switch far enough out of the box to reach the tab with a pair of straight-tip needle-nose pliers (although bent-tip needle-nose pliers -- which I don't own -- might have reached), but a big pair of diagonal side-cutting pliers easily removed the stop.

RESULT: I now have a switch which can select one of six antennas and, in a seventh position, ground all six while leaving the "common" connector floating. (I use ANOTHER switch between this one and several rigs, and this second switch has an ALL-GROUNDED position, so when I'm not operating, all antennas and all rigs are grounded.)

This modification didn't cost a dime, and it took considerably less time to do it than to write this note!

--
--Myron A. Calhoun.
Five boxes preserve our freedoms: soap, ballot, witness, jury, and cartridge
NRA Life Member & Certified Instructor for Rifle, Pistol, & Home Firearm Safety
Also Certified Instructor for the Kansas Concealed-Carry Handgun (CCH) license

```
From 1207475691752106481
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: ARRL Homebrew Challenge
Date: Sun, 28 Oct 2007 22:42:11 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.10.29.05.42.11.596683@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 21
Organization: Octanews
NNTP-Posting-Date: 29 Oct 2007 00:42:12 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:1339

On Sun, 28 Oct 2007 20:10:27 +0000, John Tartar wrote:

> The deadline for the ARRL homebrew challenge has passed and I hear that the
> ARRL received 4 entries, all NO computer radios.  NONE were in the computer
> assisted category.  Publication is scheduled for Feb 2008 QST
>
>
> A Yahoo group was started to discuss developments.
> http://groups.yahoo.com/group/ARRLHBC/
>
> Some of the entrants have posting info about their entries there.

Four entries? This does not bode well for the hobby :-(

IMHO, building at least some of your own stuff should be a prerequisite
for the license.

Cheers,
--
Gregg




From 1539859341297677961
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
```

NNTP-Posting-Date: Mon, 29 Oct 2007 06:17:52 -0500
Date: Mon, 29 Oct 2007 11:17:51 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL Homebrew Challenge
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70> <pan.2007.10.29.05.42.11.596683@localhost.localdomain>
In-Reply-To: <pan.2007.10.29.05.42.11.596683@localhost.localdomain>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <cJCdnRoDacL9XLjanZ2dnUVZ_sSlnZ2d@bright.net>
Lines: 41
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-gYAqafyvdPSwhQZVBl99fInk9jY47usDmiuDi8iXeaI/2SS6j99UOUCXWEkC9cfK+PXYi02zC1rEQ8Y!gzHuT0dcc2YasGdCnkZaCSrfZh7k0YKi7KnZdiS2A4yYhKAF0BC6KpIwlfHWmSnINs8xjO5BI0lk!MtITLYjTqw==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1340

Part of the reason might be that building piece by piece is getting pretty expensive for what you end up with. For $700 or so, you can buy a radio that works all the HF bands plus 6, 2 and 432 with all kinds of features. Try homebrewing that for $700... :(Seems that most stuff homebrewed these days is station accessory equipment that just makes some task around the shack a little more convenient (I'm guilty of this as well). I do still hombrew all of my own antennas :)

Scott
N0EDV

geek wrote:
> On Sun, 28 Oct 2007 20:10:27 +0000, John Tartar wrote:
>
>
>>The deadline for the ARRL homebrew challenge has passed and I hear that the
>>ARRL received 4 entries, all NO computer radios. NONE were in the computer
>>assisted category. Publication is scheduled for Feb 2008 QST
>>
>>
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>>http://groups.yahoo.com/group/ARRLHBC/

>>
>>Some of the entrants have posting info about their entries there.
>
>
> Four entries? This does not bode well for the hobby :-(
>
> IMHO, building at least some of your own stuff should be a prerequisite for the license.
>
> Cheers,
> __
> Gregg
>

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

From -3286219724150982910
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
<pan.2007.10.29.05.42.11.596683@localhost.localdomain>
<cJCdnRoDacL9XLjanZ2dnUVZ_sSlnZ2d@bright.net>
Subject: Re: ARRL Homebrew Challenge
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <0MjVi.159412$Xa3.51395@attbi_s22>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1193658492 12.219.135.201 (Mon, 29 Oct 2007 11:48:12 GMT)
NNTP-Posting-Date: Mon, 29 Oct 2007 11:48:12 GMT
Organization: AT&T ASP.att.net
Date: Mon, 29 Oct 2007 11:48:12 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1341

"Scott" <acepilot@bloomer.net> wrote in message news:cJCdnRoDacL9XLjanZ2dnUVZ_sSlnZ2d@bright.net...
> Part of the reason might be that building piece by piece is getting pretty

> expensive for what you end up with. For $700 or so, you can buy a radio
> that works all the HF bands plus 6, 2 and 432 with all kinds of features.
> Try homebrewing that for $700... :(Seems that most stuff homebrewed
> these days is station accessory equipment that just makes some task around
> the shack a little more convenient (I'm guilty of this as well). I do
> still hombrew all of my own antennas :)
>
> Scott
> N0EDV

Not really so Scott. Try the PicaStar group. By the grace of Analog Devices in their enlightened policy of providing samples of even their most expensive devices, and the price of SMD ((NOT really so difficult to work with, just different. And you purchase new resistors and capacitors at $0.003 each (Not a typo, 3/10ths of a cent) from DigiKey!)) Mine came in at something under half your $700 figure for a 160-10 meter transceiver with more bells and whistles than the average $2000 radio, and more performance than most radios costing twice that!

W4ZCB

From -3737170671982025236
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
<pan.2007.10.29.05.42.11.596683@localhost.localdomain>
<cJCdnRoDacL9XLjanZ2dnUVZ_sSlnZ2d@bright.net> <0MjVi.159412$Xa3.51395@attbi_s22>
Subject: Re: ARRL Homebrew Challenge
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <jSjVi.159423$Xa3.117786@attbi_s22>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1193658895 12.219.135.201 (Mon, 29 Oct 2007 11:54:55 GMT)
NNTP-Posting-Date: Mon, 29 Oct 2007 11:54:55 GMT
Organization: AT&T ASP.att.net
Date: Mon, 29 Oct 2007 11:54:55 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1342

And you purchase new resistors and capacitors at
> $0.003 each (Not a typo, 3/10ths of a cent) from DigiKey!)) Mine came in
> at
> something under half your $700 figure for a 160-10 meter transceiver with
> more bells and whistles than the average $2000 radio, and more performance
> than most radios costing twice that!
>
> W4ZCB

Well, Really not a typo, but at $0.31 for ten each, for the mathematically
unchallenged, that comes out to THREE cents each. Going to have to go sweep
up all those that have flipped out into never never land, hardly ever to be
seen again and restock my supplies. Them things is more valuable than I
thought. (Although I HAVE purchased SMD parts as inexpensively as $0.003
each at hamfests)

Regards
W4ZCB

From -3672370086116921189
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!50g2000hsm.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL Homebrew Challenge
Date: Mon, 29 Oct 2007 08:22:11 -0700
Organization: http://groups.google.com
Lines: 43
Message-ID: <1193671331.193436.7980@50g2000hsm.googlegroups.com>
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
   <pan.2007.10.29.05.42.11.596683@localhost.localdomain>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1193671331 29308 127.0.0.1 (29 Oct 2007 15:22:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 29 Oct 2007 15:22:11 +0000 (UTC)
In-Reply-To: <pan.2007.10.29.05.42.11.596683@localhost.localdomain>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 50g2000hsm.googlegroups.com; posting-host=170.121.15.35;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1344

On Oct 29, 1:42 am, geek <g...@localhost.localdomain> wrote:

> On Sun, 28 Oct 2007 20:10:27 +0000, John Tartar wrote:
> > The deadline for the ARRL homebrew challenge has passed and I hear that the
> > ARRL received 4 entries, all NO computer radios. NONE were in the computer
> > assisted category. Publication is scheduled for Feb 2008 QST
>
> > A Yahoo group was started to discuss developments.
> >http://groups.yahoo.com/group/ARRLHBC/
>
> > Some of the entrants have posting info about their entries there.
>
> Four entries? This does not bode well for the hobby :-(

It's astonishing that anyone was able to meet the requirements: A $50 HF CW and voice transceiver meeting FCC spectral requirements. That's astonishing.

I mean, 40 years ago some of were cobbling together crystal-controlled CW transmitters for $10 or $15 plus a lot of raiding of old TV's and radios for tubes, transformers, etc. The fact that the same inflation-adjusted amount of money allows something that is way superior functionally with modern stuff is good news!

> IMHO, building at least some of your own stuff should be a prerequisite
> for the license.

Maybe, but requiring someone to build a multimode HF transceiver from scratch would have been even more onerous 40 years ago than it is today. Some folks will complain about the cost of a rig (and in fact these complaints were the impetus behind the homebrew challenge), but with used, all-band, multimode HF rigs available for just a few hundred dollars I don't see how cost can matter much.

There was a really funny letter that QST published over the summer, saying "there's no way to do anything on HF without a $6000 radio and multiple towers filled with beam arrays anymore". My response: I turned on my old Heath HW-16 (paid $50 for it a few months before) and worked a dozen European/Eurasian countries and Senegal without even trying. It's like some are setting the bar way too high or way too low, when really it's about having fun.

Tim.

From -3732203907019531415
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!50g2000hsm.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL Homebrew Challenge

```
Date: Mon, 29 Oct 2007 08:27:39 -0700
Organization: http://groups.google.com
Lines: 35
Message-ID: <1193671659.003924.28910@50g2000hsm.googlegroups.com>
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
   <pan.2007.10.29.05.42.11.596683@localhost.localdomain>
   <a8kbi3d6d6bitoeid71k34oert0e0o95tb@4ax.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1193671659 28541 127.0.0.1 (29 Oct 2007 15:27:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 29 Oct 2007 15:27:39 +0000 (UTC)
In-Reply-To: <a8kbi3d6d6bitoeid71k34oert0e0o95tb@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 50g2000hsm.googlegroups.com; posting-host=170.121.15.35;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1345
```

On Oct 29, 8:26 am, no.s...@no.uce.bellatlantic.net wrote:

```
> On Sun, 28 Oct 2007 22:42:11 -0700, geek <g...@localhost.localdomain>
> wrote:
>
> >On Sun, 28 Oct 2007 20:10:27 +0000, John Tartar wrote:
>
> >> The deadline for the ARRL homebrew challenge has passed and I hear that the
> >> ARRL received 4 entries, all NO computer radios.  NONE were in the computer
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> It's the $50 limit!  Thats way too low under $100 then it's doable.
>
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>
> >> Some of the entrants have posting info about their entries there.
>
> >Four entries? This does not bode well for the hobby :-(
>
> No it may speak badly for the challenge.  I've built a lot of SSB
> VHF radios and $50 is a tight budget even with a large junkbox
> assist.
```

IMHO one of the basic premises of the challenge - that the lack of sub-$50 radios is limiting access to the hobby - is the problem. After the designs are published and we don't see a huge influx of new hams, I think we'll finally be able to abolish the thought that sub-$50 radios aren't the silver bullet and move on to facing the real challenges instead of stupid lines in the sand.

That said, I really look forward to the clever things done to make a multimode HF transceiver for just $50.

Tim.

From 1641047140646334898
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!sn-xt-sjc-03!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: John Tartar <john_tartar@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL Homebrew Challenge
Date: Mon, 29 Oct 2007 16:43:16 -0000
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <Xns99D862E5970Cjohntartaryahoocom@216.168.3.70>
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
<pan.2007.10.29.05.42.11.596683@localhost.localdomain>
<1193671331.193436.7980@50g2000hsm.googlegroups.com>
User-Agent: Xnews/5.04.25
X-Complaints-To: abuse@supernews.com
Lines: 105
Xref: g2news2.google.com rec.radio.amateur.homebrew:1346

Well $50 is definitely Do-Able, for a SSB/CW radio.
There's a picture of one on the front page of the yahoo group.
http://groups.yahoo.com/group/ARRLHBC/

The fact that the are only 4 entries is a little disappointing,
especially since none were Software Defined Radios.
However, the task is difficult, and the prize was only a token $100.
I know of a few hams who started designs but didn't finish in time.

I've looked at the Picastar group, and that's real homebrew, they want
you to iron Xerox paper onto blank PCB stock to make your SMT boards. So
it's $300 in material, and probably 300 hours of your time. But saving
money is not the normal reason for homebrewing these days. For $300 you
could buy a decent used 160-10M HF radio on EBay.

The first radio I built (in the 60's) was a simple 1 tube crystal
controlled transmitter featured in an Electronics magazine that you could
build for $7. Adjusting for inflation, $7 is about equal to $50 today.
And for $50 you get much more: a VFO, digital readout, TX&RX, CW&SSB.

I think the point of the $50 HF radio, is to attract VHF only hams to try
HF. What's the statistic? 75% of all hams never operate on HF? The new
no-code license should let these Tech class hams get a general pretty
easily.

>On Sun, 28 Oct 2007 20:10:27 +0000, John Tartar wrote:
>
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>> ARRL received 4 entries, all NO computer radios. NONE were in the
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>> assisted category. Publication is scheduled for Feb 2008 QST

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>No it may speak badly for the challenge. I've built a lot of SSB
>VHF radios and $50 is a tight budget even with a large junkbox
>assist.

>>IMHO, building at least some of your own stuff should be a prerequisite
>>for the license.

>I do but, I am in a minority.

>Allison

Tim Shoppa <shoppa@trailing-edge.com> wrote in
news:1193671331.193436.7980@50g2000hsm.googlegroups.com:

> On Oct 29, 1:42 am, geek <g...@localhost.localdomain> wrote:
>> On Sun, 28 Oct 2007 20:10:27 +0000, John Tartar wrote:
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>>
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>
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> CW transmitters for $10 or $15 plus a lot of raiding of old TV's and
> radios for tubes, transformers, etc. The fact that the same inflation-

```
> adjusted amount of money allows something that is way superior
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>
> Maybe, but requiring someone to build a multimode HF transceiver from
> scratch would have been even more onerous 40 years ago than it is
> today. Some folks will complain about the cost of a rig (and in fact
> these complaints were the impetus behind the homebrew challenge), but
> with used, all-band, multimode HF rigs available for just a few
> hundred dollars I don't see how cost can matter much.
>
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> multiple towers filled with beam arrays anymore". My response: I
> turned on my old Heath HW-16 (paid $50 for it a few months before) and
> worked a dozen European/Eurasian countries and Senegal without even
> trying. It's like some are setting the bar way too high or way too
> low, when really it's about having fun.
>
> Tim.
>
>
```

```
From -8612099245962691460
X-Google-Thread: fc2a5,649a3d4a1de56598
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!
newsfeed.news.ucla.edu!ihnp4.UCSD.Edu!ucdavis!not-for-mail
From: Spam me not please <soaponarope@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Anyone have Autek WM-1 Schematic?
Date: Mon, 29 Oct 2007 17:44:34 +0000 (UTC)
Organization: University of California, Davis
Lines: 45
Sender: Skipp May <skipp@veni.ucdavis.edu>
Message-ID: <fg5662$kvi$1@skeeter.ucdavis.edu>
References: <4723df20$0$32477$4c368faf@roadrunner.com>
NNTP-Posting-Host: veni.ucdavis.edu
X-Trace: skeeter.ucdavis.edu 1193679874 21490 128.120.47.42 (29 Oct 2007 17:44:34
GMT)
X-Complaints-To: usenet@ucdavis.edu
NNTP-Posting-Date: Mon, 29 Oct 2007 17:44:34 +0000 (UTC)
User-Agent: tin/1.4.7-20030322 ("Suggestions") (UNIX) (SunOS/5.8 (sun4u))
Xref: g2news2.google.com rec.radio.amateur.homebrew:1347
```

Years ago I drew out the diagram and I should have a copy of it
in my files.   I'll look...

cheers,
skipp
www.radiowrench.com/sonic

> Rick Frazier <rickf@rickfrazier.com> wrote:
: In the spirit of homebrew, I would prefer to repair what I have if I'm
: not building something new, even if the repair is on somthing
: commercially produced.

: My Autek WM-1 (lighted version) "computing SWR/Power meter" seems to
: have quit "computing" in that it doesn't show an SWR reading.

: In true "dont have a clue or schematic, shotgun approach fashion" I
: replaced all three ICs with high quality sockets and new ICs in case it
: was one of them. Also hit every connection with fresh solder in case of
: a hard to see cold joint. No Joy...

: Primary Symptom: no SWR reading, PWR is OK.
: When I reverse the cable connections, I see lower power, dependent on
: the SWR, so I know the match isn't perfect... Of course, swapping the
: cables only proved that I could vary my SWR and it wasn't 1:1, not that
: both halves of the sensor board are working, so swapped red & black
: wires on the sensor board end, tried sending power through both
: directions. Still no SWR, but at least now I know both halves of sensor
: board are good. Swapped wires at main unit end, checked again, now I
: know the wires from the remote head are good too.

: Both meters seem to work fine, as I get the same scale deflection on
: each meter as I check them with a VOM in Ohms position. So now I'm down
: to one of the discrete components somewhere in circuit.

: Is there a schematic out there for these units? I would much prefer to
: fix it myself than send it off to Autek. If nothing else, now that I've
: invested time in it, there is the challenge of fixing such a relatively
: low-tech device that's driving me to not admit failure.

: If no schematic is available, then I will have to draw my own, (reverse
: engineer the circuit) and at my current rate of "spare time" that might
: take a month or more...

: Thanks
: -- Rick AH7H

From 3493530396198603265
X-Google-Thread: fc2a5,47688199d13d68b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e9g2000prf.googlegroups.com!not-for-mail
From: eternalsquire@comcast.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UHF ATV converter

Date: Mon, 29 Oct 2007 13:58:54 -0700
Organization: http://groups.google.com
Lines: 43
Message-ID: <1193691534.316591.143220@e9g2000prf.googlegroups.com>
References: <1193514066.047599.145930@t8g2000prg.googlegroups.com>
   <pan.2007.10.28.00.55.54.42671@invalid.nospam>
   <fg13el$11k$1@theodyn.ncf.ca>
NNTP-Posting-Host: 67.142.130.38
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1193691535 30894 127.0.0.1 (29 Oct 2007 20:58:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 29 Oct 2007 20:58:55 +0000 (UTC)
In-Reply-To: <fg13el$11k$1@theodyn.ncf.ca>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; .NET CLR 2.0.50727; IEMB3; IEMB3),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e9g2000prf.googlegroups.com; posting-host=67.142.130.38;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1348

On Oct 27, 10:33 pm, et...@FreeNet.Carleton.CA (Michael Black) wrote:

> Doug Smith W9WI (w...@invalid.nospam) writes:
>
> > I don't think most amateur TV stations use a VSB lower-sideband filter.
> > They seem to work OK - though they're generally going for legibility, not
> > high picture quality!
>
> > The other suggestion, that you use a modulator from an old VCR, is a good
> > one. In America that'll be VHF instead of UHF.
>
> I don't know what's being used nowadays, but it is interesting how it
> has been in the past.
>
> Up till 1976, pretty much all articles about ATV would be about high
> level modulating an existing transmitter. Do it that way, and the
> only way to get VSB is with a filter that can tolerate the power level.
>
> The one exception I've seen was an early sixties article in QST where the
> author (a QST staffer if I recall) took the modulated RF output of a
> surveillance camera and fed it into an upconverter to get up to UHF.
> Likely that wasn't used much since it was more complicated.
>
> Then in 1976, there was an article in "Ham Radio" about modulating
> an oscillator running at about 50MHz, and then converting it up
> and using a linear amplfication chain. More complicated but likely
> put out a better signal than most ATV transmitters at the time. I
> seem to recall there was even an LC VSB filter at the "IF" frequency.
>
> I would have thought by now it had switched over to that sort of
> thing, but I don't really know.
>

> A lot or most of those RF modulators I've looked at have an SAW
> filter, so I assume the output is close to VSB. Feed it into a
> mixer stage, then some stages of linear amplification and there
> you go.
>
>   Michael VE2BVW

I am actually trying to send the output of a video card to a CATV channel.
I have VGA, S-Video, and RCA TV-out for choices.

```
From 3099984145029260599
X-Google-Thread: fc2a5,f25fff1af176a89b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 29 Oct 2007 16:10:36 -0500
Date: Mon, 29 Oct 2007 21:10:59 +0000
From: charlie <wehatespam@wymsey.co.uk>
User-Agent: Thunderbird 1.5.0.12 (X11/20060911)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Denco Coils Anyone?
References: <VI8Vi.114604$j16.83018@newsfe6-gui.ntli.net>
In-Reply-To: <VI8Vi.114604$j16.83018@newsfe6-gui.ntli.net>
X-Enigmail-Version: 0.95.2
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-ID: <48CdnaTR0OXR0bvanZ2dnUVZ8qaqnZ2d@pipex.net>
Lines: 32
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 85.210.142.195
X-Trace: sv3-wVD8JwXa/WPTzisa4mWDp5PM4pT4CJ/E31SlaGnDqqRuUtrvtU4BQCkE0/hVd4zJF+/
UDi131heK6g6!H9Qqq2voXIzxWfSrdPxq/
fjZSfQo1I11xbsliDQtyjktvauZcd866+SPp9HxVGY0AKkaDBAk6ZJ/!
SgZq131btko3Nh823A9qYaDAV5o=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1349
```

Theo wrote:
> Can any UK subscribers to this group help?
> I require the following Denco Maxi-Q coils:-
>

> Range 3 DP (Dual Purpose) RED
> Range 4 DP (Dual Purpose) RED
> (These are the ones which fit B9A bases).
>
> Willing to pay reasonable price including postage.
> Any assistance would be greatly appreciated.
>
>
>
>

Data here : http://vintageradio.me.uk/info/dencocoils.htm

Make your own :
http://downloads.hanssummers.com/dencoalt.pdf

Data : http://downloads.hanssummers.com/dencotrl.pdf

See the bottom of this page:
http://g3rjv.qrp.googlepages.com/equipment

Also here: http://markhindes.easywebstore.co.uk/Denco_B2WSX.aspx

Charlie.

--
M0WYM
www.radiowymsey.org

From 7292045978755683911
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 29 Oct 2007 16:15:55 -0500
Date: Mon, 29 Oct 2007 21:16:16 +0000
From: charlie <wehatespam@wymsey.co.uk>
User-Agent: Thunderbird 1.5.0.12 (X11/20060911)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL Homebrew Challenge
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
<pan.2007.10.29.05.42.11.596683@localhost.localdomain>
<a8kbi3d6d6bitoeid71k34oert0e0o95tb@4ax.com>
<1193671659.003924.28910@50g2000hsm.googlegroups.com>
In-Reply-To: <1193671659.003924.28910@50g2000hsm.googlegroups.com>
X-Enigmail-Version: 0.95.2
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-ID: <wradnVI9KNcW0LvaRVnyvAA@pipex.net>

Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 85.210.142.195
X-Trace:
sv3-16e4F6FabtzoUDERypOhjLSYT+GiXQ0J80ABBldh4zKOe8Qw+6XurikhWVuTX6gjkeL021sztBwSSg
z!AMJyTkwyES8ChNDWoTuKsdMcadzzd38c7gHj6feLJgy3wLU9leAn92cv0nh1xOFLptLKWS4jRRm5!
7jExDe1z2WYT7dE=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1350

Tim Shoppa wrote:

<SNIP>
>
> IMHO one of the basic premises of the challenge - that the lack of sub-
> $50 radios is limiting access to the hobby - is the problem. After the
> designs are published and we don't see a huge influx of new hams, I
> think we'll finally be able to abolish the thought that sub-$50 radios
> aren't the silver bullet and move on to facing the real challenges
> instead of stupid lines in the sand.
>
> That said, I really look forward to the clever things done to make a
> multimode HF transceiver for just $50.
>
> Tim.
>
How about the BITX20? That can made for $50 surely.
http://www.phonestack.com/farhan/bitx.html

Charlie.

--
M0WYM
www.radiowymsey.org

From -5123109287221068901
X-Google-Thread: fc2a5,f25fff1af176a89b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news-in.ntli.net!
newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe7-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Theo" <theodore.twyler@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
References: <VI8Vi.114604$j16.83018@newsfe6-gui.ntli.net>

```
<48CdnaTR0OXR0bvanZ2dnUVZ8qaqnZ2d@pipex.net>
Subject: Re: Denco Coils Anyone?
Lines: 3
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <5EsVi.102780$yN2.87208@newsfe7-gui.ntli.net>
Date: Mon, 29 Oct 2007 21:54:09 GMT
NNTP-Posting-Host: 86.15.196.244
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe7-gui.ntli.net 1193694849 86.15.196.244 (Mon, 29 Oct 2007 21:54:09
GMT)
NNTP-Posting-Date: Mon, 29 Oct 2007 21:54:09 GMT
Organization: ntl Cablemodem News Service
Xref: g2news2.google.com rec.radio.amateur.homebrew:1351

Many thanks Charlie, most useful!!




From 378073879192885153
X-Google-Thread: fc2a5,44260c7307a77725
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!news.astraweb.com!
border1.a.newsrouter.astraweb.com!border2.nntp.ams.giganews.com!nntp.giganews.com!
sn-xt-ams-06!sn-xt-ams-03!sn-post-ams-02!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Assuming "homebrew" includes "modify a commercial product"....
Date: Mon, 29 Oct 2007 18:33:04 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13icre0duao6m14@corp.supernews.com>
References: <fg3r0m$iq5@unix1.cc.ksu.edu>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 49
Xref: g2news2.google.com rec.radio.amateur.homebrew:1352

Too cool!  Sounds like a much better setup.  Congratulations!

Dave

<mcalhoun@ksu.edu> wrote in message news:fg3r0m$iq5@unix1.cc.ksu.edu...
> Assuming "homebrew" includes "modifying a commercial product", I just
```

> did something that I'd like to pass on to others who might want to do the same thing.
>
> I've had a Model MFJ-1701 "ANTENNA SELECTOR" switch for years. Basically, a rotary 6-position switch connects a "common" SO-239 connector to one of the six SO-239 antennas connectors while grounding the remaining five. Note that the "common" connector is always connected to one of the antennas, and the switch can NOT ground all SIX antennas, as might be nice when not using any of them.
>
> I don't know if their current design is the same, but I got the bright idea that, if I removed the "stop" on the rotary switch, at least one of the new positions (there are now 12!) would ground ALL SIX antennas.
>
> It was easy enough (remove four screws) to get into the box. I wasn't in the mood to un-solder the wiring, but by removing the knob and the nut which held the rotary switch to the box, I could bend the wires enough that the wafer came part-way out of the box. I would like to have just bent the "stop" tab out of the way, but my wire-bending didn't get the switch far enough out of the box to reach the tab with a pair of straight-tip needle-nose pliers (although bent-tip needle-nose pliers -- which I don't own -- might have reached), but a big pair of diagonal side-cutting pliers easily removed the stop.
>
> RESULT: I now have a switch which can select one of six antennas and, in a seventh position, ground all six while leaving the "common" connector floating. (I use ANOTHER switch between this one and several rigs, and this second switch has an ALL-GROUNDED position, so when I'm not operating, all antennas and all rigs are grounded.)
>
> This modification didn't cost a dime, and it took considerably less time to do it than to write this note!
>
> --
> --Myron A. Calhoun.
> Five boxes preserve our freedoms: soap, ballot, witness, jury, and
> cartridge
> NRA Life Member & Certified Instructor for Rifle, Pistol, & Home Firearm
> Safety
> Also Certified Instructor for the Kansas Concealed-Carry Handgun (CCH)
> license

From 2512362827920704995
X-Google-Thread: fc2a5,62acf353310192c6
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!sn-xt-sjc-03!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Buy and Sell your Tube Gear!
Date: Mon, 29 Oct 2007 18:39:26 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13icrpuqc13bo2b@corp.supernews.com>
References: <FZbVi.11945$U07.48@newsfe12.lga>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 19
Xref: g2news2.google.com rec.radio.amateur.homebrew:1353

I've got a Citiphone radio that I don't think I'll ever let go of. Four
channels, and one (count it) watt. But it was my introduction to
user-supported radio. Too many memories. Might buy something else
though...

Thanks for the link.

Dave

"Jeff James" <w2nbc@optonline.net> wrote in message
news:FZbVi.11945$U07.48@newsfe12.lga...
> The Boatanchor Classifieds..
> Free classifieds dedicated to vintage Amateur Radio..
>
> http://www.dealamerica.com/deal/cgi-bin/ads/bcads.cgi
>
> Thanks for your support

From 2940127400275581270
X-Google-Thread: fc2a5,62acf353310192c6
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-xxxfer.readnews.com!news-out.readnews.com!
postnews3.readnews.com!news.coretel.net!not-for-mail
From: "radiosrfun" <radiosrfun@radiosrfun.com>
Newsgroups: rec.radio.amateur.homebrew
References: <FZbVi.11945$U07.48@newsfe12.lga> <13icrpuqc13bo2b@corp.supernews.com>
Subject: Re: Buy and Sell your Tube Gear!
Date: Mon, 29 Oct 2007 19:49:55 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response

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Lines: 27
Message-ID: <472671a1$0$30117$ecde5a14@news.coretel.net>
Organization: CoreTel
NNTP-Posting-Host: 9c0d28e4.news.coretel.net
X-Trace: DXC=cHR^T63\U;
\6>G`^g@1CIZcYX6N<OEXQ[XC^KVcXIIOPXi0=6PZ`>CPWcZa74OCMi^^@aR0IV\MMR
X-Complaints-To: abuse@coretel.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:1354

"Dave" <db5151@hotmail.com> wrote in message
news:13icrpuqc13bo2b@corp.supernews.com...
> I've got a Citiphone radio that I don't think I'll ever let go of.  Four
> channels, and one (count it) watt.  But it was my introduction to
> user-supported radio.  Too many memories.  Might buy something else
> though...
>
> Thanks for the link.
>
> Dave
>
> "Jeff James" <w2nbc@optonline.net> wrote in message
> news:FZbVi.11945$U07.48@newsfe12.lga...
>> The Boatanchor Classifieds..
>> Free classifieds dedicated to vintage Amateur Radio..
>>
>> http://www.dealamerica.com/deal/cgi-bin/ads/bcads.cgi
>>
>> Thanks for your support
>
>

I just got a crap load of Tube gear in - some I'll try and get listed on my
own site - others - to E-bay. Owner wants to clear them out - fast.




From 2789375667849139967
X-Google-Thread: fc2a5,47688199d13d68b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!
news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UHF ATV converter
Date: Tue, 30 Oct 2007 04:14:01 +0000 (UTC)
Organization: MGT Consulting
Lines: 26
Message-ID: <slrnfidbrr.imo.gsm@cable.mendelson.com>
```

References: <1193514066.047599.145930@t8g2000prg.googlegroups.com>
<pan.2007.10.28.00.55.54.42671@invalid.nospam> <fg13el$11k$1@theodyn.ncf.ca>
<1193691534.316591.143220@e9g2000prf.googlegroups.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-139-10-250.bb.netvision.net.il
X-Trace: marvin.inside.misty.com 1193717641 26618 89.139.10.250 (30 Oct 2007
04:14:01 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Tue, 30 Oct 2007 04:14:01 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1356

eternalsquire@comcast.net wrote:

> I am actually trying to send the output of a video card to a CATV
> channel.
> I have VGA, S-Video, and RCA TV-out for choices.

I don't know where you are, but since you are posting from comcast, I'll
hazzard a guess that you are in the U.S.

My suggestion to you is to go to Radio Shack, or a store similar to what
they used to be and buy a modulator for a video game or DVD player.
You may be able to find one at a second hand sale, Salvation Army,
Goodwill, etc.

Take the composite output (RCA socket TV-out) and plug it into the
modulator and be done.

The VHF ones are usually fixed to channel 3 and 4 (with a switch), the
UHF ones are usualy tunable, but you may be able to "tweak" them.

Geoff.`

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
IL Voice: (07)-7424-1667 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/

From -6901874617662620227
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: ARRL Homebrew Challenge
Date: Mon, 29 Oct 2007 22:49:52 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.10.30.05.49.52.565740@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>

<pan.2007.10.29.05.42.11.596683@localhost.localdomain>
<a8kbi3d6d6bitoeid71k34oert0e0o95tb@4ax.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 16
Organization: Octanews
NNTP-Posting-Date: 30 Oct 2007 00:49:55 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:1357

Hi,

On Mon, 29 Oct 2007 12:26:50 +0000, no.spam wrote:

<snip>
> It's the $50 limit! Thats way too low under $100 then it's doable.

I'm not an RF collector by any means, but a HiFi guy and I'm sure I have
enough stuff kicking around to make such with a $0 output.

I did breadboard a tube SSB exciter for 27MHz... dunno of its spectral
purity but it got out *shrug*

Cheers,

--
Gregg

From -4971256736608994223
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 30 Oct 2007 06:43:26 -0500
Date: Tue, 30 Oct 2007 11:43:25 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL Homebrew Challenge
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
<pan.2007.10.29.05.42.11.596683@localhost.localdomain>
<cJCdnRoDacL9XLjanZ2dnUVZ_sSlnZ2d@bright.net> <0MjVi.159412$Xa3.51395@attbi_s22>
In-Reply-To: <0MjVi.159412$Xa3.51395@attbi_s22>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <lfednePmL6tDhbranZ2dnUVZ_u2mnZ2d@bright.net>

Lines: 50
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-5hBLyTv5STtFa/zPgTmFTDXfkOmI9hPhLeU1Q6FpvwvHdW9t4z5R3DnsFiCwS/D1Fhr68IiQV5JBYQL!IjDT9pJg7G7sADtvHnm9815l5iYz82He/efGDABcen8l+SsVpEv6UBqLVrm6bzarWoO2fGrb8S7G!Tw0OOP3tiQ==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1358

Surface mount stuff is fine. I use them all the time in my transverters (VHF-microwave) and my other homebrew stuff. OK on your 160-10 homebrew. My example (my Yaesu FT857 is what I had in mind) covers that PLUS 6, 2 and 432. How much would it cost to add those to your radio? Probably not too much, but it might still get you close to the $700 Yaesu. And, yours is not counting labor costs. How many hours did it take to build? When I build, I "pay" myself at $20/hours...less than that and I stay in bed! ;) I know it's a hobby, but even if I don't count my labor costs, it uses up my time where I COULD be making $20/hour. Don't get me wrong, I still love to build stuff!!!

Scott
N0EDV

Harold E. Johnson wrote:

> "Scott" <acepilot@bloomer.net> wrote in message
> news:cJCdnRoDacL9XLjanZ2dnUVZ_sSlnZ2d@bright.net...
>
>>Part of the reason might be that building piece by piece is getting pretty
>>expensive for what you end up with. For $700 or so, you can buy a radio
>>that works all the HF bands plus 6, 2 and 432 with all kinds of features.
>>Try homebrewing that for $700... :(Seems that most stuff homebrewed
>>these days is station accessory equipment that just makes some task around
>>the shack a little more convenient (I'm guilty of this as well). I do
>>still hombrew all of my own antennas :)
>>
>>Scott
>>N0EDV
>
>
> Not really so Scott. Try the PicaStar group. By the grace of Analog Devices
> in their enlightened policy of providing samples of even their most
> expensive devices, and the price of SMD ((NOT really so difficult to work
> with, just different. And you purchase new resistors and capacitors at
> $0.003 each (Not a typo, 3/10ths of a cent) from DigiKey!)) Mine came in at
> something under half your $700 figure for a 160-10 meter transceiver with
> more bells and whistles than the average $2000 radio, and more performance
> than most radios costing twice that!

>
> W4ZCB
>
>
>

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

From -1419533589667672O7
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!out03b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!wns13feed!worldnet.att.net!
attbi_s21.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
<pan.2007.10.29.05.42.11.596683@localhost.localdomain>
<cJCdnRoDacL9XLjanZ2dnUVZ_sSlnZ2d@bright.net> <0MjVi.159412$Xa3.51395@attbi_s22>
<lfednePmL6tDhbranZ2dnUVZ_u2mnZ2d@bright.net>
Subject: Re: ARRL Homebrew Challenge
Lines: 28
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <O0JVi.178362$Fc.133941@attbi_s21>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1193761966 12.219.135.201 (Tue, 30 Oct 2007 16:32:46 GMT)
NNTP-Posting-Date: Tue, 30 Oct 2007 16:32:46 GMT
Organization: AT&T ASP.att.net
Date: Tue, 30 Oct 2007 16:32:46 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1359

"Scott" <acepilot@bloomer.net> wrote in message
news:lfednePmL6tDhbranZ2dnUVZ_u2mnZ2d@bright.net...
> Surface mount stuff is fine. I use them all the time in my transverters
> (VHF-microwave) and my other homebrew stuff. OK on your 160-10 homebrew.
> My example (my Yaesu FT857 is what I had in mind) covers that PLUS 6, 2
> and 432. How much would it cost to add those to your radio? Probably not
> too much, but it might still get you close to the $700 Yaesu. And, yours
> is not counting labor costs. How many hours did it take to build? When I
> build, I "pay" myself at $20/hours...less than that and I stay in bed! ;)

> I know it's a hobby, but even if I don't count my labor costs, it uses up
> my time where I COULD be making $20/hour. Don't get me wrong, I still
> love to build stuff!!!
>
> Scott
> N0EDV

That's funny Scott. I put $20 an hour into a coffee can when I design/build
a project. Figure I couldn't have more fun if I paid that much for it. About
every 3 years, there's enough there for a 3-4 week vacation in the UK.

With Bush spending money we don't have like a drunken sailor, the dollar is
in the tank everywhere so it may be 4 years this time. Either that or I have
to build more stuff.

W4ZCB

From 8968544362255487324
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i13g2000prf.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL Homebrew Challenge
Date: Tue, 30 Oct 2007 10:48:44 -0700
Organization: http://groups.google.com
Lines: 39
Message-ID: <1193766524.458155.18180@i13g2000prf.googlegroups.com>
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
   <pan.2007.10.29.05.42.11.596683@localhost.localdomain>
   <cJCdnRoDacL9XLjanZ2dnUVZ_sSlnZ2d@bright.net>
   <0MjVi.159412$Xa3.51395@attbi_s22>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1193766525 15873 127.0.0.1 (30 Oct 2007 17:48:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 30 Oct 2007 17:48:45 +0000 (UTC)
In-Reply-To: <0MjVi.159412$Xa3.51395@attbi_s22>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.8)
Gecko/20071008 Firefox/2.0.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i13g2000prf.googlegroups.com; posting-host=192.25.142.225;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1360

On Oct 29, 4:48 am, "Harold E. Johnson" <W4...@mchsi.com> wrote:

```
> "Scott" <acepi...@bloomer.net> wrote in message
>
> news:cJCdnRoDacL9XLjanZ2dnUVZ_sSlnZ2d@bright.net...
>
> > Part of the reason might be that building piece by piece is getting pretty
> > expensive for what you end up with.  For $700 or so, you can buy a radio
> > that works all the HF bands plus 6, 2 and 432 with all kinds of features.
> > Try homebrewing that for $700...  :(  Seems that most stuff homebrewed
> > these days is station accessory equipment that just makes some task around
> > the shack a little more convenient (I'm guilty of this as well).  I do
> > still hombrew all of my own antennas :)
>
> > Scott
> > N0EDV
>
> Not really so Scott. Try the PicaStar group. By the grace of Analog Devices
> in their enlightened policy of providing samples of even their most
> expensive devices, and the price of SMD ((NOT really so difficult to work
> with, just different. And you purchase new resistors and capacitors at
> $0.003 each (Not a typo, 3/10ths of a cent) from DigiKey!)) Mine came in at
> something under half your $700 figure for a 160-10 meter transceiver with
> more bells and whistles than the average $2000 radio, and more performance
> than most radios costing twice that!
>
> W4ZCB

And I'll tell you, I am damned thankful that there are people like
Harold, and Bill Carver, and Martein Bakker, who set the bar pretty
high and give me inspiration to work on projects that will provide
even better performance--performance that you simply cannot buy
anywhere else at any price.  Largely through an understanding of the
goals that Bill and Harold, especially, have been working toward, I've
become rather rabid in my pursuit of excellence in certain aspects of
receiver behavior.

Cheers,
Tom




From 8899909796259662058
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o3g2000hsb.googlegroups.com!not-for-
mail
From:  NM0S <ai9e_qrp@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL Homebrew Challenge
Date: Tue, 30 Oct 2007 10:58:41 -0700
Organization: http://groups.google.com
Lines: 15
Message-ID: <1193767121.999878.133950@o3g2000hsb.googlegroups.com>
```

```
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
   <pan.2007.10.29.05.42.11.596683@localhost.localdomain>
   <cJCdnRoDacL9XLjanZ2dnUVZ_sSlnZ2d@bright.net>
   <0MjVi.159412$Xa3.51395@attbi_s22>
   <lfednePmL6tDhbranZ2dnUVZ_u2mnZ2d@bright.net>
   <O0JVi.178362$Fc.133941@attbi_s21>
NNTP-Posting-Host: 205.175.225.24
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1193767122 17723 127.0.0.1 (30 Oct 2007 17:58:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 30 Oct 2007 17:58:42 +0000 (UTC)
In-Reply-To: <O0JVi.178362$Fc.133941@attbi_s21>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
InfoPath.1; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o3g2000hsb.googlegroups.com; posting-host=205.175.225.24;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1361
```

I'm one of the 4 who submitted an entry to the ARRL HBC contest. I figure I put maybe 500 to 600 hours into the project. I had relocated in February to take a new job, and my family wasn't able to join me until July. Consequently, I had the time on my hands anyway.

This may seem like a lot of time, but when you consider the average American spends that much time watching TV in four months, I don't feel too bad.

I consider it time well spent. I learned a lot that I will be able to use on future projects. I'm sure that the other contest participants would agree.

73 - Dave NM0S

```
From 7885807974747392910
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 30 Oct 2007 13:54:54 -0500
Message-Id: <s8bkv4-9mm.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: Re: ARRL Homebrew Challenge
Newsgroups: rec.radio.amateur.homebrew
Date: Tue, 30 Oct 2007 13:54:52 -0500
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
<pan.2007.10.29.05.42.11.596683@localhost.localdomain>
```

```
<cJCdnRoDacL9XLjanZ2dnUVZ_sSlnZ2d@bright.net> <0MjVi.159412$Xa3.51395@attbi_s22>
<lfednePmL6tDhbranZ2dnUVZ_u2mnZ2d@bright.net> <O0JVi.178362$Fc.133941@attbi_s21>
Organization: the clifto consortium
User-Agent: KNode/0.10.5
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 12
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.15.125.52
X-Trace: sv3-
BLDTVTCl1Or+ecvpTT7Fzi8WXrw8Dy2zNkEe0CD4NIv87W4s9yl4pY2rG6OiyaSBnccqAR087HLV9Y+!
qiZzve1jspQEbUijhHh7Hy+jlIEUk9SdvTRGlljhYVXe9xVcglyEfmUx8kyWlASuWNJp2vyAqu0e!
CHoYGQTdBWJ4
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1362

Harold E. Johnson wrote:
> With Bush spending money we don't have like a drunken sailor, the dollar is
> in the tank everywhere so it may be 4 years this time. Either that or I have
> to build more stuff.

Bush isn't spending it, it's the damned Congress.

--
One meter, to within 0.0125% accuracy (off by just under .005 inches):
        Three feet
        Three inches
        Three eights of an inch


From -3825948304163250751
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 30 Oct 2007 14:00:00 -0500
Message-Id: <fhbkv4-9mm.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: Re: ARRL Homebrew Challenge
Newsgroups: rec.radio.amateur.homebrew
Date: Tue, 30 Oct 2007 13:59:27 -0500
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
<pan.2007.10.29.05.42.11.596683@localhost.localdomain>
<cJCdnRoDacL9XLjanZ2dnUVZ_sSlnZ2d@bright.net> <0MjVi.159412$Xa3.51395@attbi_s22>
<lfednePmL6tDhbranZ2dnUVZ_u2mnZ2d@bright.net> <O0JVi.178362$Fc.133941@attbi_s21>
```

<1193767121.999878.133950@o3g2000hsb.googlegroups.com>
Organization: the clifto consortium
User-Agent: KNode/0.10.5
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 10
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.15.125.52
X-Trace: sv3-TnJeBd6vTCMsp4YWgsjLTGkkJNBqoc2ZOn/
Nf2ZPHVSTsh3UnqqnZ+ofJJhImb10I9Ws0HSrofuQANT!
6jYVdSHHXxAUVOvOiA9iapXe2xXgWQu0i6a+oS4dQuEjabnATxqw5LE5Oxpaw2c+9YTTpIEdi7Wx!
8zVKhdEKTVr8
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1363

NM0S wrote:
> I'm one of the 4 who submitted an entry to the ARRL HBC contest.

Feel free to brag here in further detail. :)

--
One meter, to within 0.0125% accuracy (off by just under .005 inches):
        Three feet
        Three inches
        Three eights of an inch

From 6680898794315057485
X-Google-Thread: fc2a5,47688199d13d68b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q5g2000prf.googlegroups.com!not-for-
mail
From: eternalsquire@comcast.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UHF ATV converter
Date: Tue, 30 Oct 2007 16:35:10 -0700
Organization: http://groups.google.com
Lines: 31
Message-ID: <1193787310.388983.17940@q5g2000prf.googlegroups.com>
References: <1193514066.047599.145930@t8g2000prg.googlegroups.com>
   <pan.2007.10.28.00.55.54.42671@invalid.nospam>
   <fg13el$11k$1@theodyn.ncf.ca>
   <1193691534.316591.143220@e9g2000prf.googlegroups.com>
   <slrnfidbrr.imo.gsm@cable.mendelson.com>
NNTP-Posting-Host: 67.142.130.19
Mime-Version: 1.0

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Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1193787310 1974 127.0.0.1 (30 Oct 2007 23:35:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 30 Oct 2007 23:35:10 +0000 (UTC)
In-Reply-To: <slrnfidbrr.imo.gsm@cable.mendelson.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q5g2000prf.googlegroups.com; posting-host=67.142.130.19;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1364

On Oct 29, 9:14 pm, g...@mendelson.com (Geoffrey S. Mendelson) wrote:
>  eternalsqu...@comcast.net wrote:
> > I am actually trying to send the output of a video card to a CATV
> > channel.
> > I have VGA, S-Video, and RCA TV-out for choices.
>
> I don't know where you are, but since you are posting from comcast, I'll
> hazzard a guess that you are in the U.S.
>
> My suggestion to you is to go to Radio Shack, or a store similar to what
> they used to be and buy a modulator for a video game or DVD player.
> You may be able to find one at a second hand sale, Salvation Army,
> Goodwill, etc.
>
> Take the composite output (RCA socket TV-out) and plug it into the
> modulator and be done.
>
> The VHF ones are usually fixed to channel 3 and 4 (with a switch), the
> UHF ones are usualy tunable, but you may be able to "tweak" them.
>
> Geoff.`
>
> --
> Geoffrey S. Mendelson, Jerusalem, Israel g...@mendelson.com  N3OWJ/4X1GM
> IL Voice: (07)-7424-1667 U.S. Voice: 1-215-821-1838
> Visit my 'blog athttp://geoffstechno.livejournal.com/

I want to build a tunable UHF modulator for myself.   If I wanted to
be an appliance
operator I would not be posting on this newsgroup.




From -2130605844198362830
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y42g2000hsy.googlegroups.com!not-for-
mail
From:  NM0S <ai9e_qrp@yahoo.com>
```

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL Homebrew Challenge
Date: Tue, 30 Oct 2007 20:25:12 -0700
Organization: http://groups.google.com
Lines: 27
Message-ID: <1193801112.785702.224700@y42g2000hsy.googlegroups.com>
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
   <pan.2007.10.29.05.42.11.596683@localhost.localdomain>
   <cJCdnRoDacL9XLjanZ2dnUVZ_sSlnZ2d@bright.net>
   <0MjVi.159412$Xa3.51395@attbi_s22>
   <lfednePmL6tDhbranZ2dnUVZ_u2mnZ2d@bright.net>
   <O0JVi.178362$Fc.133941@attbi_s21>
   <1193767121.999878.133950@o3g2000hsb.googlegroups.com>
   <fhbkv4-9mm.ln1@remote.clifto.com>
NNTP-Posting-Host: 12.217.182.136
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1193801113 32742 127.0.0.1 (31 Oct 2007 03:25:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 31 Oct 2007 03:25:13 +0000 (UTC)
In-Reply-To: <fhbkv4-9mm.ln1@remote.clifto.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.8)
Gecko/20071008 Firefox/2.0.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y42g2000hsy.googlegroups.com; posting-host=12.217.182.136;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1365

On Oct 30, 1:59 pm, clifto <cli...@gmail.com> wrote:
> NM0S wrote:
> > I'm one of the 4 who submitted an entry to the ARRL HBC contest.
>
> Feel free to brag here in further detail. :)
>

OK, don't mind if I do. Basically, my design is a direct-conversion rig, with a Class-E PA running about 90% efficiency DC-RF (CW anyway), delivering 5 to 6W PEP. Finals are push-pull 2N7000 MOSFETS, directly driven by a 74HC86 logic gate. VFO is a PTO covering the full 40M band. Voice mode is Double-sideband, suppressed carrier. There is an AGC on the receive, and ALC on transmit, so there is only one knob, for tuning. The receiver uses the PA MOSFETS as the receive mixer. The audio amp is discrete transistor design, with automatic bias control to reduce current consumption when no signals are received. Total current draw on RX is <30mA, on TX < 600mA. There is a 200 Hz CW filter that is switched in when a key is plugged into the KEY jack. Total parts cost, including enclosure and PCB is $40. Will work from 9V with reduced power.

ICs used are: LM324, LM3900, LM339, 74HC86 and 78L05

I'll make boards available if there is interest.

73 - Dave   NM0S

From -6192800018118954519
X-Google-Thread: fc2a5,86fd2a338943920c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!
news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 31 Oct 2007 01:43:20 -0500
Date: Wed, 31 Oct 2007 19:43:22 +1300
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: More on the Kenwood 820s.
References: <47200d29$1@clear.net.nz>
<1193499394.096922.75240@y27g2000pre.googlegroups.com>
In-Reply-To: <1193499394.096922.75240@y27g2000pre.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 071030-0, 30/10/2007), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-3-200.dsl.telstraclear.net
Message-ID: <47282405$1@clear.net.nz>
X-Original-Trace: 31 Oct 2007 19:43:17 +1300, 121-72-3-200.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 63
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-AuthenticatedUsername: news10531
X-Trace:
sv3-0fYdRXXsmnL42KoA+iUYDODj7YdqWzBse7+sbSAH2lmj6LBs0JzWw7Nx6UhP5XQA+Ihrn3Ih38Zx17
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X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1366

Andrew VK3BFA wrote:
> On Oct 25, 1:27 pm, cliff wright <c.c.wri...@paradise.net.nz> wrote:
>
>>Well I've got all my TX problems sorted out fine now.
>>However I am beginning to think that the receiver is somewhat noisy.

>>When set up as per manual I am getting about a S3 internal noise level
>>on sideband.
>>My unit has had the RF stage modified as per the International Radio
>>mods and also the balanced mixer. In the next few days I hope to have a
>>look at this problem too, it is possible that the mixer balance is not
>>very perfect for example.
>>It was also fitted with back to back 1N4148 diodes across the RX input
>>and these might just have been damaged with the tx problem.
>>Has anyone else had a similar experience with this rig?
>>Regards Cliff Wright ZL1BDA ex G3NIA.
>
>
> Remove ALL the mods. Take it back to original - that way, you will be
> looking for a fault rather than trying to figure out if its the mods,
> faulty mods, something else, etc etc.
>
> The original design engineers had a pretty good idea of how it was
> supposed to work, published specifications in the manual, are based on
> this. Your battling with "mods" - how can find any fault with
> extraneous mods?
>
> Get an established reference point, ie the service manual. Go forward
> from there.....
>
> Andrew VK3BFA.
>

Hi Andrew.
Well I ran it for over a year before making the modifications.
These were basically using more advanced MOSFET's in the rf and balanced
mixer stages with some bias adjustments to suit.
From my measurements (I have a pretty well equipped home electronics
workshop) it did make some improvement to the internal noise floor and
about a 6 to 10 dB improvement in overload capacity.
I must actually beg to differ a little about the original design
engineers. As I pointed out the 820S was produced with a least 5
different 1st mixer source circuits in production and the coupling to
the balanced mixer is not optimum by any means. This doesn't look to me
like a fully optimised design!
BTW I did actually restore things the way they were and it just went
back the way it was, and the noise was still there.
Perhaps I should point out that I have designed and built 10 different
communication receivers in the last 40 years and have owned most of the
well known older commercial units too, in fact in the late 1970s I
worked 200 countries confirmed and got my WAC with a completely homebrew
station running 100 watts to a TT21 final.
Further investigation has confirmed so far that we have a serious local
problem with mains radiated QRN here.
Some experiments the other evening showed that the noise has decided
polarisation characteristics as a 5/8 wave 20 metre vertical produces
a similar noise level to my G5RV but with greater impulsive
characteristics, a bit like auto ignition noise.
The jury is still out but fortunately another local ham works for the
power distribution company and I'm going to get in contact with him to s

share our experiences.
Very dissapointing though as I have a nice elevated site and had great hopes of getting some good DX.
I'll post anything I find out further.
73's Cliff Wright ZL1BDA ex G3NIA

From -3011674537808312140
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X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!lon-transit.news.telstra.net!lon-in.news.telstra.net!news.telstra.net!news-server.bigpond.net.au!53ab2750!not-for-mail
Reply-To: "David" <dwhuisman@bigpond.com>
From: "David" <dwhuisman@bigpond.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Unable to get sensible readings on Vector Network Anaylzer
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Message-ID: <BXWVi.7102$CN4.5491@news-server.bigpond.net.au>
Date: Wed, 31 Oct 2007 08:22:57 GMT
NNTP-Posting-Host: 121.217.214.116
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1193818977 121.217.214.116 (Wed, 31 Oct 2007 19:22:57 EST)
NNTP-Posting-Date: Wed, 31 Oct 2007 19:22:57 EST
Organization: BigPond Internet Services
Xref: g2news2.google.com rec.radio.amateur.homebrew:1367

I recently purchased an older model HP8753 Vector network analyzer. It came with the reflection test set and calibration standards.

I have looked for some time on the net and cannot find any documents that describe how to make practical measurements.

Initially I want to characterise some passive components (caps etc) and I also want to be able to measure the unput impedance of an active device.

Can someone please point me in the right direction or maybe explain how I set up a test. I have seen responses in books showing the impedance of a capacitor and the self resonant response but when I connect a Cap to the test port on the reflection test set I can see the correct capacitance curve on the Smith chart display but when I switch to mag, the line is flat acorss the band. I cannot tell from the Smith Chart where it is self responant.

Thanks in advance for any help

Regards

David

From 8795941646048337375
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 31 Oct 2007 06:19:51 -0500
Date: Wed, 31 Oct 2007 11:19:51 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL Homebrew Challenge
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
<pan.2007.10.29.05.42.11.596683@localhost.localdomain>
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<lfednePmL6tDhbranZ2dnUVZ_u2mnZ2d@bright.net> <O0JVi.178362$Fc.133941@attbi_s21>
In-Reply-To: <O0JVi.178362$Fc.133941@attbi_s21>
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bNRUquJulQ==
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X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1368

I hear ya, man! My problem exactly! I can still afford to build
microwave gear but I can't afford the drive to get to one of the better
sites around here (about 6 hours away from me) :(

Scott
N0EDV

Harold E. Johnson wrote:
> "Scott" <acepilot@bloomer.net> wrote in message
> news:lfednePmL6tDhbranZ2dnUVZ_u2mnZ2d@bright.net...
>
>>Surface mount stuff is fine. I use them all the time in my transverters
>>(VHF-microwave) and my other homebrew stuff. OK on your 160-10 homebrew.
>>My example (my Yaesu FT857 is what I had in mind) covers that PLUS 6, 2
>>and 432. How much would it cost to add those to your radio? Probably not
>>too much, but it might still get you close to the $700 Yaesu. And, yours
>>is not counting labor costs. How many hours did it take to build? When I
>>build, I "pay" myself at $20/hours...less than that and I stay in bed! ;)
>>I know it's a hobby, but even if I don't count my labor costs, it uses up
>>my time where I COULD be making $20/hour. Don't get me wrong, I still
>>love to build stuff!!!
>>
>>Scott
>>N0EDV
>
>
> That's funny Scott. I put $20 an hour into a coffee can when I design/build
> a project. Figure I couldn't have more fun if I paid that much for it. About
> every 3 years, there's enough there for a 3-4 week vacation in the UK.
>
> With Bush spending money we don't have like a drunken sailor, the dollar is
> in the tank everywhere so it may be 4 years this time. Either that or I have
> to build more stuff.
>
> W4ZCB
>
>

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

From -8096597060660517604
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out04a.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!
feed.news.qwest.net!mpls-nntp-08.inet.qwest.net!news.qwest.net!not-for-mail
Date: Wed, 31 Oct 2007 06:40:11 -0700
From: PhattyMo <PhattyMo@nospam.gmail>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL Homebrew Challenge
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
<pan.2007.10.29.05.42.11.596683@localhost.localdomain>

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<a8kbi3d6d6bitoeid71k34oert0e0o95tb@4ax.com>
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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 23
Message-ID: <47288559$0$502$815e3792@news.qwest.net>
Organization: Qwest Communications Corporation
NNTP-Posting-Host: e98d636f.news.qwest.net
X-Trace: DXC=j48kWI7;FoQ]>VVT@Ek@AQF85SKJoGf>T?
hbON3UX4ZZ3<4fknPZf>XTi]mQXjR>fXAZ@mm1LX^\X8dP0Aon[Y=]icl4^hEK39W
X-Complaints-To: abuse@qwest.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:1369

geek wrote:
> Hi,
>
> On Mon, 29 Oct 2007 12:26:50 +0000, no.spam wrote:
>
> <snip>
>> It's the $50 limit!  Thats way too low under $100 then it's doable.
>
> I'm not an RF collector by any means, but a HiFi guy and I'm sure I have
> enough stuff kicking around to make such with a $0 output.
>
> I did breadboard a tube SSB exciter for 27MHz... dunno of its spectral
> purity but it got out *shrug*
>
> Cheers,
> __
> Gregg

Us audio guys have enough parts to make one of these:
http://web.telia.com/~u85920178/tx/317-tx.htm

I just whipped one up the other night,did some testing on the top of the
AM BCB.. ;-)  A fun and neat little circuit.


From -3971031287144247З0
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
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Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 31 Oct 2007 09:28:56 -0500
Date: Wed, 31 Oct 2007 14:28:39 +0000
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL Homebrew Challenge
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References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <RLadnR42J7S1DLXanZ2dnUVZ8sSrnZ2d@pipex.net>
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v5Xy0RkhK08OXzk4wYPsv5D1+nHwOb1cUWNRGHb5Gzro5/6oFauxXtHt0PSAqelkN0RLurf7mKtn!
8XCz7tKr1QTlPUEUPkwpgGEPUw==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1370

> Four entries? This does not bode well for the hobby :-(
>
> IMHO, building at least some of your own stuff should be a prerequisite
> for the license.

================================
In the UK ,in order to obtain an Intermediate Level AR licence ,a
candidate ,prior to sitting a multiple choice type of exam (test) will
have to construct a (simple) piece of amateur radio related kit.
It can be as simple as a sounder to practice Morse telegraphy or perhaps
a simple receiver or a VFO or a crystal calibrator ,etc.
Prior to the construction the candidate will be assessed on basic
soldering / de-soldering skills.

Frank   GM0CSZ / KN6WH

From -2660040954182036095
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
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nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 31 Oct 2007 09:38:11 -0500
Date: Wed, 31 Oct 2007 14:37:56 +0000
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL Homebrew Challenge
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
<pan.2007.10.29.05.42.11.596683@localhost.localdomain>

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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <9tGdndInRerODrXaRVnyiAA@pipex.net>
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NNTP-Posting-Host: 81.178.106.43
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fdxQwlgJIxQYcw+8etXAoN!TRojtK4/6E6R1w==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1371

Scott wrote:
> Part of the reason might be that building piece by piece is getting
> pretty expensive for what you end up with.  For $700 or so, you can buy
> a radio that works all the HF bands plus 6, 2 and 432 with all kinds of
> features.  Try homebrewing that for $700...  :(  Seems that most stuff
> homebrewed these days is station accessory equipment that just makes
> some task around the shack a little more convenient (I'm guilty of this
> as well).  I do still hombrew all of my own antennas :)
======================================
I fully support that approach . Station accessories  can often be easily
home-brewed as can simple QRP equipment , and usually at very modest
cost .   All wire type of antennas can be readily home-brewed as well at
minimal cost using 'alternative' materials for insulators ,etc.

Frank  GM0CSZ / KN6WH




From 5580939490962893146
X-Google-Thread: fc2a5,18c3b0c420a5eb12
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 31 Oct 2007 10:06:01 -0500
From: Danny Richardson <>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Unable to get sensible readings on Vector Network Anaylzer
Date: Wed, 31 Oct 2007 08:06:01 -0700
Message-ID: <rd6hi3hr077fjsk92fe3t36b7q4vuhbvoe@4ax.com>
References: <BXWVi.7102$CN4.5491@news-server.bigpond.net.au>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
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Content-Type: text/plain; charset=us-ascii
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ZXEDWPVnrvQkI1OPCpawdvFvsTA=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1372

On Wed, 31 Oct 2007 08:22:57 GMT, "David" <dwhuisman@bigpond.com> wrote:

>I recently purchased an older model HP8753 Vector network analyzer. It came
>with the reflection test set and calibration standards.
>
>I have looked for some time on the net and cannot find any documents that
>describe how to make practical measurements.
>
>Initially I want to characterise some passive components (caps etc) and I
>also want to be able to measure the unput impedance of an active device.
>
>Can someone please point me in the right direction or maybe explain how I
>set up a test. I have seen responses in books showing the impedance of a
>capacitor and the self resonant response but when I connect a Cap to the
>test port on the reflection test set I can see the correct capacitance curve
>on the Smith chart display but when I switch to mag, the line is flat acorss
>the band. I cannot tell from the Smith Chart where it is self responant.
>
>Thanks in advance for any help
>
>Regards
>
>David

>http://cp.literature.agilent.com/litweb/pdf/5950-3000.pdf

From 2186056904938698869
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q5g2000prf.googlegroups.com!not-for-mail

From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Unable to get sensible readings on Vector Network Anaylzer
Date: Wed, 31 Oct 2007 10:03:04 -0700
Organization: http://groups.google.com
Lines: 64
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References: <BXWVi.7102$CN4.5491@news-server.bigpond.net.au>
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Mime-Version: 1.0
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X-Trace: posting.google.com 1193850195 3272 127.0.0.1 (31 Oct 2007 17:03:15 GMT)
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NNTP-Posting-Date: Wed, 31 Oct 2007 17:03:15 +0000 (UTC)
In-Reply-To: <BXWVi.7102$CN4.5491@news-server.bigpond.net.au>
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Complaints-To: groups-abuse@google.com
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posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1373

On Oct 31, 1:22 am, "David" <dwhuis...@bigpond.com> wrote:

> I recently purchased an older model HP8753 Vector network analyzer. It came with the reflection test set and calibration standards.
>
> I have looked for some time on the net and cannot find any documents that describe how to make practical measurements.
>
> Initially I want to characterise some passive components (caps etc) and I also want to be able to measure the unput impedance of an active device.
>
> Can someone please point me in the right direction or maybe explain how I set up a test. I have seen responses in books showing the impedance of a capacitor and the self resonant response but when I connect a Cap to the test port on the reflection test set I can see the correct capacitance curve on the Smith chart display but when I switch to mag, the line is flat acorss the band. I cannot tell from the Smith Chart where it is self responant.
>
> Thanks in advance for any help
>
> Regards
>
> David

I gather your 8753 must be an 8753A. The one on my bench (8753E) has the two-port S parameter test set built in, an integral part of the instrument, so your comment about a separate test set surprised me at first. You didn't mention the model number of the test set (transmission/reflection?? You only mentioned reflection, but the ones I'm aware of are labeled t/r, I believe...). It's also not clear just how much info you DO have. A starting point is the Agilent web site, where you will find several different manuals in PDF format for your VNA, at least, and perhaps the t/r test set too. Hint: enter 8753A, not just 8753, in the search box, and select manuals for the type of info. I have an 8754 and t/r test set at home, and the photocopied manual I have for it does talk about how to set things up and make basic measurements. -- I just downloaded the 8753A operating and programming manual, and I have to say, it really doesn't cover making basic measurements very well. Try the 8753E User's Guide (doc. # 08753-90479) for some better info on actual measurements--or poke around a little and you can probably find even better ap notes and manuals for what you want to do. There's a lot there, not always easy to find.

I believe you should also be able to find ap notes on the Agilent web site about making various kinds of measurements. Search the literature for the 8753A first, but don't be shy about searching for ap notes on VNAs in general. I dare say you can even find some things on the Rohde and Schwarz or Anritsu or similar web sites, if you don't get overwhelmed by everything on the Agilent site. By the way, it's not always easy to tell from a Smith chart where resonance is, especially if it's not very high Q. Obviously, resonance may not be very near 50 ohms, and at extreme edges of the Smith chart, small distances can represent big percentage changes in impedance. The self-resonance in a capacitor may take the impedance down to 0.01 ohms or less, and it's very hard to resolve the difference between that and, say, 1 ohm on a VNA display. It may be more useful to look at a plot of phase versus frequency, and look for places where the phase goes through a large change rapidly.

Cheers,
Tom

From -7079285367662848844
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Path: g2news2.google.com!postnews.google.com!v29g2000prd.googlegroups.com!not-for-mail
From: "Ross, NS7F" <rjtucke@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Where can I get KK7B rx?
Date: Wed, 31 Oct 2007 21:02:37 -0000
Organization: http://groups.google.com
Lines: 6
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User-Agent: G2/1.0
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rv:1.8.1.8) Gecko/20071008 Firefox/2.0.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v29g2000prd.googlegroups.com; posting-host=68.231.65.149;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1374

According to kangaus.com, they were flooded and are closed for
business for the foreseeable future. As far as I know, they are the
only source of KK7B (Rick Campbell) kits- the R2, miniR2, etc. Does
anybody know where else I could find these? Thanks and 73,
Ross, NS7F

From -5795915713984486511
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feed.cgocable.net!
read1.cgocable.net.POSTED!53ab2750!not-for-mail
From: "Norm VE3CZI" <ve3czi@arrl.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.swap
Subject: FS: Amateur & Commercial Service Manuals
Lines: 25
X-Priority: 3
X-MSMail-Priority: Normal
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Organization: Cogeco Cable
Xref: g2news2.google.com rec.radio.amateur.boatanchors:1545
rec.radio.amateur.homebrew:1375 rec.radio.swap:1530

I STILL have a quantity of Test Equipment and Radio Communications Service
Manuals,
both Commercial & Amateur.
I started out with a LOT...but still have enough to prevent getting the
Explorer into the Garage!

Most of them are in Like New Condition.

Prices are reasonable...mailing may more than the manuals..depending where you live!

Please check my site: www.rodemi.com   for what is available.
Click on the MANUALS Heading.

I am updating the site as time allows.
I recently retired from the Commercial 2-way radio business and would like these useful manuals to find a good home.

Thanks for looking....Norm VE3CZI
Email me Directly: <insert Call Sign> at arrl.net ....<call sign> is ve3czi

From -7779955158528123067
X-Google-Thread: fc8b1,92339b188290082a
X-Google-Thread: fc2a5,92339b188290082a
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From: "radiosrfun" <radiosrfun@radiosrfun.com>
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.swap
References: <Y8aWi.11683$9F1.6782@read1.cgocable.net>
Subject: Re: Amateur & Commercial Service Manuals
Date: Wed, 31 Oct 2007 21:59:11 -0400
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
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X-Complaints-To: abuse@coretel.net
Xref: g2news2.google.com rec.radio.amateur.boatanchors:1546 rec.radio.amateur.homebrew:1376 rec.radio.swap:1531

```
"Norm VE3CZI" <ve3czi@arrl.net> wrote in message
news:Y8aWi.11683$9F1.6782@read1.cgocable.net...
>I STILL have a quantity of  Test Equipment and Radio Communications Service
>Manuals,
> both Commercial & Amateur.
> I started out with a LOT...but still have enough to prevent getting the
> Explorer into the Garage!
>
> Most of them are in Like New Condition.
>
> Prices are reasonable...mailing may more than the manuals..depending where
> you live!
>
> Please check my site:   www.rodemi.com    for what is available.
> Click on the  MANUALS  Heading.
>
> I am updating the site as time allows.
> I recently retired from the Commercial 2-way radio business and would like
> these useful manuals to find a good home.
>
> Thanks for looking....Norm VE3CZI
> Email me Directly:  <insert Call Sign> at arrl.net  ....<call sign> is
> ve3czi
>
>
>
>

For any one contemplating ordering from Norm - he is cool to deal with -
don't fret it. I just got a bunch of manuals from him and would deal with
him again - in a heart beat.

Lou




From -601411213632689741
X-Google-Thread: fc8b1,92339b188290082a
X-Google-Thread: fc2a5,92339b188290082a
X-Google-Thread: 1109af,92339b188290082a
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X-Google-Language: ENGLISH,ASCII
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proxad.net!feeder1-2.proxad.net!193.252.118.146.MISMATCH!news.wanadoo.fr!
news.wanadoo.fr!not-for-mail
From: "Runge4" <philsa@bigfoot.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.swap
References: <Y8aWi.11683$9F1.6782@read1.cgocable.net>
<472932ed$0$30116$ecde5a14@news.coretel.net>
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X-Trace: 1193909435 news.orange.fr 27388 86.203.215.167:34148
X-Complaints-To: abuse@orange.fr
Xref: g2news2.google.com rec.radio.amateur.boatanchors:1550
rec.radio.amateur.homebrew:1377 rec.radio.swap:1532

especially if you can d/l them for free on the Web

"radiosrfun" <radiosrfun@radiosrfun.com> a �crit dans le message de
news:472932ed$0$30116$ecde5a14@news.coretel.net...
> "Norm VE3CZI" <ve3czi@arrl.net> wrote in message
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>> Thanks for looking....Norm VE3CZI
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From 6983842968154150197
X-Google-Thread: fc8b1,92339b188290082a
X-Google-Thread: fc2a5,92339b188290082a
X-Google-Thread: 1109af,92339b188290082a
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X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
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198.186.194.247.MISMATCH!news-xxxfer.readnews.com!news-out.readnews.com!
postnews3.readnews.com!news.coretel.net!not-for-mail
From: "radiosrfun" <radiosrfun@radiosrfun.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.swap
References: <Y8aWi.11683$9F1.6782@read1.cgocable.net>
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X-Complaints-To: abuse@coretel.net
Xref: g2news2.google.com rec.radio.amateur.boatanchors:1553
rec.radio.amateur.homebrew:1378 rec.radio.swap:1534

"Runge4" <philsa@bigfoot.com> wrote in message
news:47299cba$0$27388$ba4acef3@news.orange.fr...
> especially if you can d/l them for free on the Web
>
> "radiosrfun" <radiosrfun@radiosrfun.com> a �crit dans le message de
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>>>
>>> Please check my site: www.rodemi.com   for what is available.
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>>
>> Lou
>>
>

I've done some downloadable manuals over the years. Some of those he offered - I was unable to find - Googling and through some of the various manual sites. I got original manuals (a bunch of them) - in decent condition - from Norm, a lot cheaper than burning up my printer ink. I'm happy.

One of the manuals - I had gotten a "copy" of a couple years ago. It was missing some information, some was very unreadable - copied too dark. I paid almost the same amount for it as I did for the bunch - including the "original" which I "can" read.

To each his own. Everyone has a choice to make. I made one and am happy with it. Just leaving it at - Norm is a good guy to deal with - if you wish to purchase any of his manuals.

From -5814642080232824904
X-Google-Thread: fc2a5,18c3b0c420a5eb12
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Reply-To: "David" <dwhuisman@bigpond.com>
From: "David" <dwhuisman@bigpond.com>
Newsgroups: rec.radio.amateur.homebrew
References: <BXWVi.7102$CN4.5491@news-server.bigpond.net.au>
<1193850184.960654.213850@q5g2000prf.googlegroups.com>
Subject: Re: Unable to get sensible readings on Vector Network Anaylzer
Lines: 111
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
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Date: Wed, 31 Oct 2007 20:21:39 GMT
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X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1193862099 121.217.214.116 (Thu, 01 Nov 2007 07:21:39 EST)
NNTP-Posting-Date: Thu, 01 Nov 2007 07:21:39 EST
Organization: BigPond Internet Services
Xref: g2news2.google.com rec.radio.amateur.homebrew:1379

Thanks for the responses,

The VNA is the 8753A and the Test set I think is the T/R test set (Not S-Parameter).

I have all the manuals I could locate and understand how to select a Display format and sweep frequency range and do basic calibration "OSL".

The information I had trouble locating was examples of practical measurements. It seems that for anything I want to measure that I need to make a Test Jig and a set of standards that are the same layout as the test jig to CAL Open, Short, Through and Load. I also were not sure if I used the T/R test set when doing through measurements(ie. Test port to input of DUT and output to chanel "B" or whether I remove the Test set and go between "A" and "B" directly on the VNA).

One of the things I want to do is test Matching circuits and the input impedance of a SA605 IC but these are already on the actual PCB being used. Do I now need to make jigs specifically for this ? Or can I measure the device in-circuit ?

I think I know what I was doing wrong with the capacitor measurements. I was doing a reflective measurement and seeing R+jX when in fact the books show a graph of Insertion Loss V's frequency to see self resonant frequency etc.

I was also a little confused when the manual mentioned the T/R test set was used for measuring 50 Ohm devices but the devices I am measuring are not 50 Ohms. Maybe they mean that the Test set provides a 50 Ohm test environment ???

Thanks for any further comments.

I'll check out the manual for the "E" version and also for the 8754.

Regards

David Huisman

"K7ITM" <k7itm@msn.com> wrote in message
news:1193850184.960654.213850@q5g2000prf.googlegroups.com...
> On Oct 31, 1:22 am, "David" <dwhuis...@bigpond.com> wrote:
>> I recently purchased an older model HP8753 Vector network analyzer. It
>> came
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>> I have looked for some time on the net and cannot find any documents that
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>> curve
>> on the Smith chart display but when I switch to mag, the line is flat
>> acorss
>> the band. I cannot tell from the Smith Chart where it is self responant.
>>
>> Thanks in advance for any help
>>
>> Regards
>>
>> David
>
> I gather your 8753 must be an 8753A. The one on my bench (8753E) has
> the two-port S parameter test set built in, an integral part of the
> instrument, so your comment about a separate test set surprised me at
> first. You didn't mention the model number of the test set
> (transmission/reflection?? You only mentioned reflection, but the

```
> ones I'm aware of are labeled t/r, I believe...).  It's also not clear
> just how much info you DO have.  A starting point is the Agilent web
> site, where you will find several different manuals in PDF format for
> your VNA, at least, and perhaps the t/r test set too.  Hint:  enter
> 8753A, not just 8753, in the search box, and select manuals for the
> type of info.  I have an 8754 and t/r test set at home, and the
> photocopied manual I have for it does talk about how to set things up
> and make basic measurements. --  I just downloaded the 8753A operating
> and programming manual, and I have to say, it really doesn't cover
> making basic measurements very well.  Try the 8753E User's Guide (doc.
> # 08753-90479) for some better info on actual measurements--or poke
> around a little and you can probably find even better ap notes and
> manuals for what you want to do.  There's a lot there, not always easy
> to find.
>
> I believe you should also be able to find ap notes on the Agilent web
> site about making various kinds of measurements.  Search the
> literature for the 8753A first, but don't be shy about searching for
> ap notes on VNAs in general.  I dare say you can even find some things
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> very near 50 ohms, and at extreme edges of the Smith chart, small
> distances can represent big percentage changes in impedance.  The self-
> resonance in a capacitor may take the impedance down to 0.01 ohms or
> less, and it's very hard to resolve the difference between that and,
> say, 1 ohm on a VNA display.  It may be more useful to look at a plot
> of phase versus frequency, and look for places where the phase goes
> through a large change rapidly.
>
> Cheers,
> Tom
>
>
>
```

```
From -4116698763887786910
X-Google-Thread: fc2a5,787b03ad4fc11b7a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!uns-out.usenetserver.com!
news.usenetserver.com!pc02.usenetserver.com!TEKSAVVY.COM-Free-a2kHrUvQQWlmc!not-
for-mail
From: "Bob" <bobsakol@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1193864557.708161.142680@v29g2000prd.googlegroups.com>
Subject: Re: Where can I get KK7B rx?
Date: Thu, 1 Nov 2007 19:15:14 -0400
X-Priority: 3
```

```
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <c408f$472a667d$4c0a8b47$13834@TEKSAVVY.COM-Free>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 15
X-Trace: c408f472a667de9af2ee213834
Xref: g2news2.google.com rec.radio.amateur.homebrew:1380


"Ross, NS7F" <rjtucke@gmail.com> wrote in message
news:1193864557.708161.142680@v29g2000prd.googlegroups.com...
> According to kangaus.com, they were flooded and are closed for
> business for the foreseeable future. As far as I know, they are the
> only source of KK7B (Rick Campbell) kits- the R2, miniR2, etc. Does
> anybody know where else I could find these? Thanks and 73,
> Ross, NS7F


Hi, here is Google -Images
link:http://images.google.ca/images?hl=en&q=KK7B&btnG=Search+Images&gbv=2
>




From 1078798387715415158
X-Google-Thread: fc2a5,be44564c6c699725
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 01 Nov 2007 21:19:15 -0500
Date: Thu, 01 Nov 2007 22:19:16 -0400
From: afcsman <afcsman@hotmail.com>
Reply-To: afcsman@hotmail.com
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.8) Gecko/
20071009 SeaMonkey/1.1.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 811 home brew
References: <1192687512.632985.164050@e9g2000prf.googlegroups.com>
In-Reply-To: <1192687512.632985.164050@e9g2000prf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <RuednTUb9N6-FLfanZ2dnUVZ_rOqnZ2d@comcast.com>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.246.99.197
X-Trace:
```

sv3-6hXJdhGJYeCnKZ0crgOnvFMKYwXPi442ZdhhCbqJaeg3PKZITbuUrxJuW+gbqT+BRg0qH7W2uZfS2u
W!0DUnE2dDJRxcAyvKjWp21KOJvuYDnMzOe5XnkjkkY6EnqeXKURSjQlKafJ6YAEJl6kUQ2oVbJojE!
bFzTTQgiUfqGX/cSj4xdYokMb5P2gQ==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1382

PB Wizz:

It's great that you're doing this!

Remember that 866s need heating time to vaporize the Mercury before applying High Voltage.
When I built the HV power supply for my "big rig," I put in a thermostatic time delay relay (which triggered a high current relay) to disable the plate transformer primary for about a minute, after the filaments went on.

Good Luck & 73

afcsman--W9NPI
>

From -5708780012041992440
X-Google-Thread: fc2a5,787b03ad4fc11b7a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!208.49.83.146.MISMATCH!uns-out.usenetserver.com!news.usenetserver.com!pc02.usenetserver.com!TEKSAVVY.COM-Free-a2kHrUvQQWlmc!not-for-mail
From: "Bob" <bobsakol@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1193864557.708161.142680@v29g2000prd.googlegroups.com>
Subject: Re: Where can I get KK7B rx?
Date: Thu, 1 Nov 2007 23:43:40 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <999e1$472a9cf0$4c0a8b47$30544@TEKSAVVY.COM-Free>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 14
X-Trace: 999e1472a9cf0e9af2ee230544
Xref: g2news2.google.com rec.radio.amateur.homebrew:1383

"Ross, NS7F" <rjtucke@gmail.com> wrote in message
news:1193864557.708161.142680@v29g2000prd.googlegroups.com...
> According to kangaus.com, they were flooded and are closed for
> business for the foreseeable future. As far as I know, they are the
> only source of KK7B (Rick Campbell) kits- the R2, miniR2, etc. Does
> anybody know where else I could find these? Thanks and 73,
> Ross, NS7F
>

Hi Ross, look for "Digital 2001" transceiver, should be cheap... Nice guys!
link here: http://www.qsl.net/sp3abg/

From -4562729561332657576
X-Google-Thread: fc2a5,86fd2a338943920c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 01 Nov 2007 23:10:06 -0500
Date: Fri, 02 Nov 2007 17:10:08 +1300
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: More on the Kenwood 820s.
References: <47200d29$1@clear.net.nz> <1193499394.096922.75240@y27g2000pre.googlegroups.com> <47282405$1@clear.net.nz>
In-Reply-To: <47282405$1@clear.net.nz>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 071101-0, 01/11/2007), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-14-120.dsl.telstraclear.net
Message-ID: <472aa31b$1@clear.net.nz>
X-Original-Trace: 2 Nov 2007 17:10:03 +1300, 121-72-14-120.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints abuse@clear.net.nz
Lines: 78
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-AuthenticatedUsername: news10531
X-Trace:
sv3-1Kht67mL5h6+S81QYnCOErvpK130TUDdsE3ePE6TvSO72hP3SsSnkIEfO8qEy2gOxbrruQWBBdbU1Hz!VMPUHX5O36GQkCRvtypyP8TzO9sF2msfIzf0lCT1uB+8A8RAiwwkX8BVbQ==
X-Complaints-To: abuse@clear.net.nz

```
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1384

cliff wright wrote:
> Andrew VK3BFA wrote:
>
>> On Oct 25, 1:27 pm, cliff wright <c.c.wri...@paradise.net.nz> wrote:
>>
>>> Well I've got all my TX problems sorted out fine now.
>>> However I am beginning to think that the receiver is somewhat noisy.
>>> When set up as per manual I am getting about a S3 internal noise level
>>> on sideband.
>>> My unit has had the RF stage modified as per the International Radio
>>> mods and also the balanced mixer. In the next few days I hope to have a
>>> look at this problem too, it is possible that the mixer balance is not
>>> very perfect for example.
>>> It was also fitted with back to back 1N4148 diodes across the RX input
>>> and these might just have been damaged  with the tx problem.
>>> Has anyone else had a similar experience with this rig?
>>> Regards Cliff Wright ZL1BDA ex G3NIA.
>>
>>
>>
>> Remove ALL the mods. Take it back to original - that way, you will be
>> looking for a fault rather than trying to figure out if its the mods,
>> faulty mods, something else, etc etc.
>>
>> The original design engineers had a pretty good idea of how it was
>> supposed to work, published specifications in the manual, are based on
>> this. Your battling with "mods" - how can find any fault with
>> extraneous mods?
>>
>> Get an established reference point, ie the service manual. Go forward
>> from there.....
>>
>> Andrew VK3BFA.
>>
> Hi Andrew.
> Well I ran it for over a year before making the modifications.
> These were basically using more advanced MOSFET's in the rf and balanced
> mixer stages with some bias adjustments to suit.
>  From my measurements (I have a pretty well equipped home electronics
> workshop) it did make some improvement to the internal noise floor and
> about a 6 to 10 dB improvement in overload capacity.
> I must actually beg to differ a little about the original design
> engineers. As  I pointed out the 820S was produced with a least 5
> different 1st mixer source circuits in production and the coupling to
> the balanced mixer is not optimum by any means. This doesn't look to me
> like a fully optimised design!
```

> BTW I did actually restore things the way they were and it just went
> back the way it was, and the noise was still there.
> Perhaps I should point out that I have designed and built 10 different
> communication receivers in the last 40 years and have owned most of the
> well known older commercial units too, in fact in the late 1970s I
> worked 200 countries confirmed and got my WAC with a completely homebrew
> station running 100 watts to a TT21 final.
> Further investigation has confirmed so far that we have a serious local
> problem with mains radiated QRN here.
> Some experiments the other evening showed that the noise has decided
> polarisation characteristics as a 5/8 wave 20 metre vertical produces
> a similar noise level to my G5RV but with greater impulsive
> characteristics, a bit like auto ignition noise.
> The jury is still out but fortunately another local ham works for the
> power distribution company and I'm going to get in contact with him to s
> share our experiences.
> Very dissapointing though as I have a nice elevated site and had great
> hopes of getting some good DX.
> I'll post anything I find out further.
> 73's Cliff Wright ZL1BDA ex G3NIA

Well things are in progress here. I've finally got the power company
looking at a 33KV line about 600 metres away. This seems to be the
source of most of the noise.
My fellow ham down the rad has exactly the same problems, in fact he has
taken down his all band vertical because the noise level it picked up
was so high. His multiband 3 el Yagi is somewhat better but then of
course you can use the front to back and front to side ratio to reduce
the noise pickup.
The powere boys are looking at the line right now and I am hoping to get
a quieter QTH in the near future.
Cliff Wright ZL1BDA ex G3NIA

From 7413334460882591194
X-Google-Thread: fc2a5,787b03ad4fc11b7a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out04a.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc07.POSTED!d89a2db8!
not-for-mail
From: "Dale Parfitt" <parinc@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1193864557.708161.142680@v29g2000prd.googlegroups.com>
<999e1$472a9cf0$4c0a8b47$30544@TEKSAVVY.COM-Free>
Subject: Re: Where can I get KK7B rx?
Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response

```
Message-ID: <CFHWi.3$Zz.2@trnddc07>
Date: Fri, 02 Nov 2007 15:48:50 GMT
NNTP-Posting-Host: 63.19.235.66
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc07 1194018530 63.19.235.66 (Fri, 02 Nov 2007 11:48:50 EDT)
NNTP-Posting-Date: Fri, 02 Nov 2007 11:48:50 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1385


"Bob" <bobsakol@hotmail.com> wrote in message
news:999e1$472a9cf0$4c0a8b47$30544@TEKSAVVY.COM-Free...
>
> "Ross, NS7F" <rjtucke@gmail.com> wrote in message
> news:1193864557.708161.142680@v29g2000prd.googlegroups.com...
>> According to kangaus.com, they were flooded and are closed for
>> business for the foreseeable future. As far as I know, they are the
>> only source of KK7B (Rick Campbell) kits- the R2, miniR2, etc. Does
>> anybody know where else I could find these? Thanks and 73,
>> Ross, NS7F
>>
> Hi Ross,  look for "Digital 2001"  transceiver, should be cheap... Nice
> guys!
> link here:   http://www.qsl.net/sp3abg/
Very interesting offering. Google did not offer to translate. Is there an
English page I missed?

Tnx,
Dale W4OP




From 1359894546603644172
X-Google-Thread: fc2a5,787b03ad4fc11b7a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!out03a.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!uns-
out.usenetserver.com!news.usenetserver.com!pc02.usenetserver.com!TEKSAVVY.COM-
Free-a2kHrUvQQWlmc!not-for-mail
From: "Bob" <bobsakol@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1193864557.708161.142680@v29g2000prd.googlegroups.com>
<999e1$472a9cf0$4c0a8b47$30544@TEKSAVVY.COM-Free> <CFHWi.3$Zz.2@trnddc07>
Subject: Re: Where can I get KK7B rx?
Date: Fri, 2 Nov 2007 13:45:15 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <93d5d$472b6231$4c0a8b47$11451@TEKSAVVY.COM-Free>
X-Complaints-To: abuse@usenetserver.com
```

```
Organization: UseNetServer.com
Lines: 30
X-Trace: 93d5d472b6231e9af2ee211451
Xref: g2news2.google.com rec.radio.amateur.homebrew:1386


"Dale Parfitt" <parinc@verizon.net> wrote in message
news:CFHWi.3$Zz.2@trnddc07...
>
> "Bob" <bobsakol@hotmail.com> wrote in message
> news:999e1$472a9cf0$4c0a8b47$30544@TEKSAVVY.COM-Free...
>>
>> "Ross, NS7F" <rjtucke@gmail.com> wrote in message
>> news:1193864557.708161.142680@v29g2000prd.googlegroups.com...
>>> According to kangaus.com, they were flooded and are closed for
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>>> anybody know where else I could find these? Thanks and 73,
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>> Hi Ross,  look for "Digital 2001"  transceiver, should be cheap... Nice
>> guys!
>> link here:   http://www.qsl.net/sp3abg/
> Very interesting offering. Google did not offer to translate. Is there an
> English page I missed?
>
> Tnx,
> Dale W4OP

http://www.qsl.net/sp3abg/gb_digital_2004.html

>
>




From -6003549185819191960
X-Google-Thread: fc2a5,7b8513d018362be1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 02 Nov 2007 15:19:35 -0500
Newsgroups: rec.radio.amateur.homebrew
From: Ben Jackson <ben@ben.com>
Subject: Re: ARRL Homebrew Challenge
References: <Xns99D78605A2AB6johntartaryahoocom@216.168.3.70>
<pan.2007.10.29.05.42.11.596683@localhost.localdomain>
<1193671331.193436.7980@50g2000hsm.googlegroups.com>
<Xns99D862E5970Cjohntartaryahoocom@216.168.3.70>
Message-ID: <slrnfin1jk.29ji.ben@saturn.home.ben.com>
```

User-Agent: slrn/0.9.8.0 (FreeBSD)
Date: Fri, 02 Nov 2007 15:19:35 -0500
Lines: 16
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.59.212.44
X-Trace: sv3-YZO3Ij2IC+1MxKcX3ik9ynBC0pjm/
IlWCNaIEdPYymLiKlX0cQVfLtchElzgPN0GTuHFfZk/TENqqNq!
nIFtmIaCxztcdDndY0oscq9qgAHP9QvskmkmJCPqP3u02XqrOZ5E00wPcTpPsSELLb/f8t3pK3Pu!
AcDOCar+K3PqnCGoHEOODg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1387

On 2007-10-29, John Tartar <john_tartar@yahoo.com> wrote:
> Well $50 is definitely Do-Able, for a SSB/CW radio.

If you were mass-producing a kit, it should be easy. The challenge (back when I read it) made it sound like it had to be buildable with printed instructions and $50. If you have to buy everything in single unit quantities and make your own PCB (or build ugly/Manhattan, a challenge that would seem more formidable than $50 to many new hams) then it's hard to squeeze everything in. How many tinkerers have any idea how much it would really cost to build one of their creations? They probably built most of it from the junkbox.

--
Ben Jackson AD7GD
<ben@ben.com>
http://www.ben.com/

From -7326651805968597606
X-Google-Thread: fc2a5,787b03ad4fc11b7a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc03.POSTED!d89a2db8!not-for-mail
From: "Dale Parfitt" <parinc@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1193864557.708161.142680@v29g2000prd.googlegroups.com> <999e1$472a9cf0$4c0a8b47$30544@TEKSAVVY.COM-Free> <CFHWi.3$Zz.2@trnddc07> <93d5d$472b6231$4c0a8b47$11451@TEKSAVVY.COM-Free>
Subject: Re: Where can I get KK7B rx?
Lines: 41
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response

```
Message-ID: <bRQWi.6894$9N6.3428@trnddc03>
Date: Sat, 03 Nov 2007 02:15:35 GMT
NNTP-Posting-Host: 63.19.251.247
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc03 1194056135 63.19.251.247 (Fri, 02 Nov 2007 22:15:35 EDT)
NNTP-Posting-Date: Fri, 02 Nov 2007 22:15:35 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1388


"Bob" <bobsakol@hotmail.com> wrote in message
news:93d5d$472b6231$4c0a8b47$11451@TEKSAVVY.COM-Free...
>
> "Dale Parfitt" <parinc@verizon.net> wrote in message
> news:CFHWi.3$Zz.2@trnddc07...
>>
>> "Bob" <bobsakol@hotmail.com> wrote in message
>> news:999e1$472a9cf0$4c0a8b47$30544@TEKSAVVY.COM-Free...
>>>
>>> "Ross, NS7F" <rjtucke@gmail.com> wrote in message
>>> news:1193864557.708161.142680@v29g2000prd.googlegroups.com...
>>>> According to kangaus.com, they were flooded and are closed for
>>>> business for the foreseeable future. As far as I know, they are the
>>>> only source of KK7B (Rick Campbell) kits- the R2, miniR2, etc. Does
>>>> anybody know where else I could find these? Thanks and 73,
>>>> Ross, NS7F
>>>>
>>> Hi Ross,  look for "Digital 2001"  transceiver, should be cheap... Nice
>>> guys!
>>> link here:   http://www.qsl.net/sp3abg/
>> Very interesting offering. Google did not offer to translate. Is there an
>> English page I missed?
>>
>> Tnx,
>> Dale W4OP
>
> http://www.qsl.net/sp3abg/gb_digital_2004.html

I've tried replacing the 2004 with 2002 to see their 144/50 MHz Xcvr page in
English w/o  results.
Looks like the 2004 is the only English page?

Dale W4OP
>
>>
>>
>
>




From 4243569823599312142
X-Google-Thread: fc2a5,ea19abc7aff770db,start
```

```
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!wn13feed!
worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!7bd46aa5!not-for-mail
From: "numeric" <numeric@att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Looking for best pre-amp RF device, for HF
Lines: 14
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Message-ID: <FgTWi.46775$kj1.28571@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: e99a0ab639dbfbae7ae2daa7f1a91497
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1194066085
e99a0ab639dbfbae7ae2daa7f1a91497 (Sat, 03 Nov 2007 05:01:25 GMT)
NNTP-Posting-Date: Sat, 03 Nov 2007 05:01:25 GMT
Organization: AT&T Worldnet
Date: Sat, 03 Nov 2007 05:01:25 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1389
```

Looking for a transistor suggestion, for an RF receive pre-amplifier to cover 10Hz to about 60Mhz. So far, I have found a pair of 2N5109B bipolar transistors, which work ok in a grounded base push-pull design. These transistors provide a gain of about 12db over an input voltage range of 1 microvolt or less to over 4 volts. These transistors were designed many years ago; hopefully better transistors now exist which can provide superior linearity and better isolation form input to output. In addition, a spice model must be available.

Thanks.

```
From 2294598202395225356
X-Google-Thread: fc2a5,ea19abc7aff770db
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q3g2000prf.googlegroups.com!not-for-
mail
From:  K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for best pre-amp RF device, for HF
Date: Fri, 02 Nov 2007 22:22:07 -0700
Organization: http://groups.google.com
Lines: 48
Message-ID: <1194067327.470997.311770@q3g2000prf.googlegroups.com>
References: <FgTWi.46775$kj1.28571@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: 71.113.61.183
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Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1194067328 32441 127.0.0.1 (3 Nov 2007 05:22:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Nov 2007 05:22:08 +0000 (UTC)
In-Reply-To: <FgTWi.46775$kj1.28571@bgtnsc04-news.ops.worldnet.att.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.9)
Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q3g2000prf.googlegroups.com; posting-host=71.113.61.183;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1390

On Nov 2, 10:01 pm, "numeric" <nume...@att.net> wrote:

> Looking for a transistor suggestion, for an RF receive pre-amplifier to cover 10Hz to about 60Mhz. So far, I have found a pair of 2N5109B bipolar transistors, which work ok in a grounded base push-pull design. These transistors provide a gain of about 12db over an input voltage range of 1 microvolt or less to over 4 volts. These transistors were designed many years ago; hopefully better transistors now exist which can provide superior linearity and better isolation form input to output. In addition, a spice model must be available.
>
> Thanks.

Some of the best transistors for that sort of application are those designed for CATV amplifier service, where low distortion and low noise are important. Careful and creative circuit design can help a lot, too.

Your 4V input suggests you get 16V out at a gain of 12dB. Is that all at 50 ohms, and RMS? If so, that's about five watts output.

Have you measured IIP3 for your circuit? If so, what sort of performance do you get? What sort of noise figure? Can you share more details about the circuit?

Do you really mean input-to-output isolation, or output-to-input isolation? Normally, I'd consider +12dB in the forward direction to be poor "isolation" but in a direction I didn't really want isolation anyway--I want gain that way. You should be able in a push-pull circuit to add parts in a cross-coupling manner to lower the output-to-input isolation considerably, if that's what you are after. You can also run each side cascode (or in your case more literally, grounded-base into grounded-base...), and that can help the linearity and noise (as the input stage will run at lower voltage drop and thus run cooler), as well as the isolation.

I asked here not all that long ago about ideas for a low-gain, low-noise preamp with high IIP3 (and of course even higher OIP3) -- my mention of +55dBm as an IIP3 goal met with some disbelief (and one very respected suggestion for a way it could be done with some parts no longer readily available), but my thought is that it should be possible, given a fairly high power dissipation. Some of the modern op amps are getting close to being able to do it, at least through HF (30MHz); not to 5 watts output though. Not sure why you need that in a receiver. ;-)

Cheers,
Tom

From -7690775805467151285
X-Google-Thread: fc2a5,65ed45ebaf467a26,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!news-in-02.newsfeed.easynews.com!easynews.com!easynews!sn-xt-sjc-02!sn-xt-sjc-01!sn-xt-sjc-07!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Doug Smith W9WI <w9wi@invalid.nospam>
Newsgroups: rec.radio.amateur.homebrew
Subject: tuned circuit, anyone?
Date: Sat, 03 Nov 2007 00:36:11 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-Id: <pan.2007.11.03.05.36.10.189463@invalid.nospam>
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@supernews.com
Lines: 15
Xref: g2news2.google.com rec.radio.amateur.homebrew:1391

Back when I was studying electronics in college in the 1970s, we were taught that a 1-Ohm resistor and a 1-Farad capacitor would create a RC circuit with a time constant of 1.1 seconds -- and that since it was physically impossible to make a 1-Farad capacitor, we would never actually see such a circuit in real life.

Of course, you can now order a 1-Farad capacitor for a few bucks from Digi-Key. But they didn't stop there.

On page 18 of this month's RadComm (RSGB) there is a brief item about "ultracapcitors". The devices are available in values up to 3,000 Farads.
 3,000 Farads. Amazing.

http://www.maxwell.com/ultracapacitors/products/large-cell/bcap3000.asp

---

From -3633712695722955207
X-Google-Thread: fc2a5,65ed45ebaf467a26
X-Google-Attributes: gidfc2a5,public,usenet

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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 03 Nov 2007 12:05:29 -0500
Message-Id: <g8muv4-6ps.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: Re: tuned circuit, anyone?
Newsgroups: rec.radio.amateur.homebrew
Date: Sat, 03 Nov 2007 12:03:44 -0500
References: <pan.2007.11.03.05.36.10.189463@invalid.nospam>
Organization: the clifto consortium
User-Agent: KNode/0.10.5
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 14
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.15.125.52
X-Trace: sv3-lVilK/NeFk6aw/
LxMDokw5x0cDNY5JpeZfRW2R0Mz1SzEtiVX7+ILKOxs8n7B0nWAfOJ1N12tt1uBBE!
DIJNngDiGCKb0t47a2jWsH+h2PKPL6GSCViBOvjWEEZq+SBmY1e5vv4mkpvEE6EiLb4K+QD17rR6!
OKCR1ghdlLE9
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1393
```

Doug Smith W9WI wrote:

> On page 18 of this month's RadComm (RSGB) there is a brief item about
> "ultracapcitors". The devices are available in values up to 3,000 Farads.
> **3,000 Farads**. Amazing.

I can't find the reference I thought I kept, but some top-secret business plan is in action to use a giant ultracapacitor instead of batteries to power an electric automobile.

--

One meter, to within 0.0125% accuracy (off by just under .005 inches):

```
        Three feet
        Three inches
        Three eights of an inch
```

```
From -3845785745037303473
X-Google-Thread: fc2a5,65ed45ebaf467a26
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
```

news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 03 Nov 2007 12:35:57 -0500
Date: Sat, 03 Nov 2007 17:36:20 +0000
From: charlie <wehatespam@wymsey.co.uk>
User-Agent: Thunderbird 1.5.0.12 (X11/20060911)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: tuned circuit, anyone?
References: <pan.2007.11.03.05.36.10.189463@invalid.nospam>
<g8muv4-6ps.ln1@remote.clifto.com>
In-Reply-To: <g8muv4-6ps.ln1@remote.clifto.com>
X-Enigmail-Version: 0.95.2
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-ID: <WOKdnRPn_K7gLLHanZ2dnUVZ8sTinZ2d@pipex.net>
Lines: 18
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NNTP-Posting-Host: 85.210.46.188
X-Trace: sv3-JbwI1eK8ZG5W82PVZ/
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cVfWL7z0as7q+V1dsaqmqY9CzgAZ3GoEt5UOGR5PO4nCywQym/WgMzNYzn+xGmp+46cv!
6RC4msc4kzAuq5VoV9Tv9mgOhw==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1394

clifto wrote:
<SNIP>
>
> I can't find the reference I thought I kept, but some top-secret business
> plan is in action to use a giant ultracapacitor instead of batteries to
> power an electric automobile.
>

Here's one:

http://www.worldcarfans.com/2060724.006/pml-builds-640hp-electric-mini

Charlie.

--
M0WYM
www.radiowymsey.org

From -8208989934212375340
X-Google-Thread: fc2a5,65ed45ebaf467a26
X-Google-Attributes: gidfc2a5,public,usenet

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q3g2000prf.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: tuned circuit, anyone?
Date: Sat, 03 Nov 2007 10:41:44 -0700
Organization: http://groups.google.com
Lines: 37
Message-ID: <1194111704.681733.235480@q3g2000prf.googlegroups.com>
References: <pan.2007.11.03.05.36.10.189463@invalid.nospam>
NNTP-Posting-Host: 71.113.61.183
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1194111705 5317 127.0.0.1 (3 Nov 2007 17:41:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Nov 2007 17:41:45 +0000 (UTC)
In-Reply-To: <pan.2007.11.03.05.36.10.189463@invalid.nospam>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.9)
Gecko/20071025 Firefox/2.0.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q3g2000prf.googlegroups.com; posting-host=71.113.61.183;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1395

On Nov 2, 10:36 pm, Doug Smith W9WI <w...@invalid.nospam> wrote:
> Back when I was studying electronics in college in the 1970s, we were
> taught that a 1-Ohm resistor and a 1-Farad capacitor would create a RC
> circuit with a time constant of 1.1 seconds -- and that since it was
> physically impossible to make a 1-Farad capacitor, we would never actually
> see such a circuit in real life.
>
> Of course, you can now order a 1-Farad capacitor for a few bucks from
> Digi-Key. But they didn't stop there.
>
> On page 18 of this month's RadComm (RSGB) there is a brief item about
> "ultracapcitors". The devices are available in values up to 3,000 Farads.
> **3,000 Farads**. Amazing.
>
> http://www.maxwell.com/ultracapacitors/products/large-cell/bcap3000.asp

(Scratching my head in puzzlement...) one farad and one ohm give you
a 1.1 second time constant??

;-) I'll assume that was a slip of the fingers on the keyboard.

But even in the 70's, you could easily find computer-type
electrolytics with capacitances that were a very significant fraction
of a farad. I think I may have some around 0.1 farads with date codes
that old, and I'm just about positive I have some at 0.05 farads, and
not physically all THAT large, even. To me, a more impressive trick
has been to get the series resistance down to a low level. Early 1F

caps, used for clock backup and the like, had terribly series resistance. They were only good for delivering microamps of current, and they took a relatively long time to charge. Actually, that's not necessarily a bad thing with respect to charging, in that you don't need a series limiting resistor--it's built into the cap--to keep the charging current pulse under control.

Cheers,
Tom

```
From 105793624541585383
X-Google-Thread: fc2a5,97b94653e92d5dc5,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v3g2000hsg.googlegroups.com!not-for-
mail
From:  terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Microwave oven transformers.
Date: Sat, 03 Nov 2007 11:46:08 -0700
Organization: http://groups.google.com
Lines: 14
Message-ID: <1194115568.762955.4390@v3g2000hsg.googlegroups.com>
NNTP-Posting-Host: 142.162.129.19
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1194115569 19992 127.0.0.1 (3 Nov 2007 18:46:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Nov 2007 18:46:09 +0000 (UTC)
Cc:  tsanford@nf.sympatico.ca
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v3g2000hsg.googlegroups.com; posting-host=142.162.129.19;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1396
```

Proposing to scrap some microwave ovens.
What uses are there for the power transformers?
Apparently these have 115 volt primaries and HV windings upwards of 2000 volts AC RMS.
Their power handling capacity must be of the order of 900 to 1000 VA (volt-amps or watts)?
1000 VA at 2000 volts indicates something of the order of 0.5 amps!
Wow; 0.5 amps even at say 230 volts indicates 115 watts or thereabout and the secondary (the 'old' primary) providing about 12 volts or thereabouts at around 10 amps or so, provided one has a 230 volt outlet available?
Any good (connected backwards) as a battery charger?
Ideas/criticism welcome.

From 2839225403531849851
X-Google-Thread: fc2a5,97b94653e92d5dc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!newsfeed.kreonet.re.kr!
nntp.kreonet.re.kr!kreonet.re.kr!news.netins.net!not-for-mail
From: Tehrasha Darkon <darkon@netins.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Microwave oven transformers.
Date: Sat, 3 Nov 2007 19:27:52 +0000 (UTC)
Organization: netINS InterNetNews site
Lines: 23
Message-ID: <pan.2007.11.03.19.27.53@netins.net>
References: <1194115568.762955.4390@v3g2000hsg.googlegroups.com>
NNTP-Posting-Host: 167.142.36.151
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
X-Trace: news.netins.net 1194118072 11118 167.142.36.151 (3 Nov 2007 19:27:52 GMT)
X-Complaints-To: abuse@netins.net
NNTP-Posting-Date: Sat, 3 Nov 2007 19:27:52 +0000 (UTC)
User-Agent: Pan/0.132 (Waxed in Black)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1397

On Sat, 03 Nov 2007 11:46:08 -0700, terry wrote:

> Proposing to scrap some microwave ovens. What uses are there for the
> power transformers? Apparently these have 115 volt primaries and HV
> windings upwards of 2000 volts AC RMS.
> Their power handling capacity must be of the order of 900 to 1000 VA
> (volt-amps or watts)?
> 1000 VA at 2000 volts indicates something of the order of 0.5 amps! Wow;
> 0.5 amps even at say 230 volts indicates 115 watts or thereabout and the
> secondary (the 'old' primary) providing about 12 volts or thereabouts at
> around 10 amps or so, provided one has a 230 volt outlet available?
> Any good (connected backwards) as a battery charger? Ideas/criticism
> welcome.

I have seen two different designs for linear amplifiers, using microwave oven xfrms in the HV supplies. One of the designs even removes the HV secondary, and rewinds the transformer for the LV filiments.

Hooking them up backwards is most likely a very bad idea, as most oven transformers have one side of their secondary tied to the core. Never a good idea to hook up mains to such a design, due to risk of electrical shock.

From 4142870243690192417

```
X-Google-Thread: fc2a5,97b94653e92d5dc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!sn-xt-sjc-03!sn-xt-sjc-06!
sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Microwave oven transformers.
Date: Sat, 3 Nov 2007 13:09:32 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13ipll05pied6df@corp.supernews.com>
References: <1194115568.762955.4390@v3g2000hsg.googlegroups.com>
<pan.2007.11.03.19.27.53@netins.net>
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 10
X-Original-Bytes: 1108
Xref: g2news2.google.com rec.radio.amateur.homebrew:1398
```

You can also use them as a Hi-Pot tester. Connect the secondary as a voltage quadrupler to get 12 KV. Used for testing voltage breakdown. Check oyut Hi-Pot testers. They are current limited breakdown testers.

Also make reasonable good door stops. The primary wires can be formed into a carrying handle.

73, Colin K7FM

```
From 8942370034705569606
X-Google-Thread: fc2a5,97b94653e92d5dc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feed.news.qwest.net!mpls-
nntp-07.inet.qwest.net!news.qwest.net!not-for-mail
Date: Sat, 03 Nov 2007 13:42:10 -0700
From: PhattyMo <PhattyMo@nospam.gmail>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Microwave oven transformers.
References: <1194115568.762955.4390@v3g2000hsg.googlegroups.com>
In-Reply-To: <1194115568.762955.4390@v3g2000hsg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 22
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Message-ID: <472cdd16$0$10309$815e3792@news.qwest.net>
Organization: Qwest Communications Corporation
NNTP-Posting-Host: 44e5fac4.news.qwest.net
X-Trace: DXC=TcgG[f_eIT^^@KlMU>:n5]F85SKJoGf>T3?Nh79=RaD^HfQ1a503Y0\F85SKJoGf>T?
I^_`>3Hm5YOm9J7<nJojXk8Jn?1e<0m[
X-Complaints-To: abuse@qwest.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:1399
```

terry wrote:

> Proposing to scrap some microwave ovens.
> What uses are there for the power transformers?
> Apparently these have 115 volt primaries and HV windings upwards of
> 2000 volts AC RMS.
> Their power handling capacity must be of the order of 900 to 1000 VA
> (volt-amps or watts)?
> 1000 VA at 2000 volts indicates something of the order of 0.5 amps!
> Wow; 0.5 amps even at say 230 volts indicates 115 watts or thereabout
> and the secondary (the 'old' primary) providing about 12 volts or
> thereabouts at around 10 amps or so, provided one has a 230 volt
> outlet available?
> Any good (connected backwards) as a battery charger?
> Ideas/criticism welcome.
>

I dunno about using them 'backwards'...But if you rewind the secondary,you can get any voltage you like,and some serious current.

http://www.users.qwest.net/~ptaylor/Electronics/MOTpowersupply/

```
From 1374166543995569755
X-Google-Thread: fc2a5,97b94653e92d5dc5
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mail
From:  terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Microwave oven transformers.
Date: Sat, 03 Nov 2007 14:10:17 -0700
Organization: http://groups.google.com
Lines: 16
Message-ID: <1194124217.422456.140500@57g2000hsv.googlegroups.com>
References: <1194115568.762955.4390@v3g2000hsg.googlegroups.com>
   <pan.2007.11.03.19.27.53@netins.net>
NNTP-Posting-Host: 142.162.129.19
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1194124217 13328 127.0.0.1 (3 Nov 2007 21:10:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Nov 2007 21:10:17 +0000 (UTC)
```

In-Reply-To: <pan.2007.11.03.19.27.53@netins.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 57g2000hsv.googlegroups.com; posting-host=142.162.129.19;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1400

On Nov 3, 5:27 pm, Tehrasha Darkon <dar...@netins.net> wrote:
>
> Hooking them up backwards is most likely a very bad idea, as most oven
> transformers have one side of their secondary tied to the core. Never a
> good idea to hook up mains to such a design, due to risk of electrical
> shock.

Good point: I had forgotten that.
I recall the few cases I've worked on them, one end of the HV
secondary IS connected to the frame and thereby to the chassis/metal
box of the microwave! Detaching it might be dicey if insufficient
insulation from what would then become the neutral of a 115 volt
input. BUT if used, in North America on 230 volts would be (one side)
or 115 volts RMS above neutral and ground!!!!!!
Thanks for the heads up on that. Terry.

From -3761584690954911244
X-Google-Thread: 10c2ee,c7959662d673416d
X-Google-Thread: fc2a5,c7959662d673416d
X-Google-Thread: fc8b1,c7959662d673416d
X-Google-Thread: 1118be,c7959662d673416d
X-Google-Attributes: gid10c2ee,gidfc2a5,gidfc8b1,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out03b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx02.iad01.newshosting.com!newshosting.com!130.81.64.211.MISMATCH!
cycny01.gnilink.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!
news.bellsouth.net!bignews2.bellsouth.net.POSTED!cd3bd447!not-for-mail
From: Randy or Sherry Guttery <comcents@bellsouth.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,
sci.electronics.components
Subject: Re: Color-matching knobs, banana jacks, wire etc.
References: <1192292438.137612.89420@e9g2000prf.googlegroups.com> <LawrenceSMITH-A1A4E8.10433514102007@news.verizon.net>
<1192455653.696319.90710@q5g2000prf.googlegroups.com>
<fevr18$if1$1@panix2.panix.com>
In-Reply-To: <fevr18$if1$1@panix2.panix.com>

Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 16
Message-ID: <mtKQi.3790$K7.3697@bignews2.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcbokhljdffbfaodelohandgjlkjoabkleenkm
ckihlbbgbbjkgeglidpgdlmhlpjkfbliljioficpbjdnldmakhfkopjokfpmakomlgcccebcdfdbbm
NNTP-Posting-Date: Mon, 15 Oct 2007 10:06:10 EDT
Organization: BellSouth Internet Group
Date: Mon, 15 Oct 2007 09:06:20 -0500
Xref: g2news2.google.com rec.antiques.radio+phono:11847
rec.radio.amateur.homebrew:1246 rec.radio.amateur.boatanchors:1401
sci.electronics.components:2887

Scott Dorsey wrote:

> Pomona Electronics plugs! Nine colors available! Stocked by Allied!
> http://www.pomonaelectronics.com/pdf/d1325-5230-5406-6546_100.pdf
> --scott

Actually - it's all ten of the "standard" color code colors - I have a
couple of the kits... for a project "someday".

best regards...
--
Sherry

A Tender Tale - a page dedicated to those Ships and Crews
so vital to the United States Silent Service:
http://tendertale.com

From 6817834034889038203
X-Google-Thread: 10c2ee,c7959662d673416d
X-Google-Thread: fc2a5,c7959662d673416d
X-Google-Thread: fc8b1,c7959662d673416d
X-Google-Thread: 1118be,c7959662d673416d
X-Google-Attributes: gid10c2ee,gidfc2a5,gidfc8b1,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v29g2000prd.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,
sci.electronics.components
Subject: Re: Color-matching knobs, banana jacks, wire etc.
Date: Mon, 15 Oct 2007 07:33:02 -0700
Organization: http://groups.google.com
Lines: 37
Message-ID: <1192458782.369981.35300@v29g2000prd.googlegroups.com>
References: <1192292438.137612.89420@e9g2000prf.googlegroups.com>

```
   <LawrenceSMITH-A1A4E8.10433514102007@news.verizon.net>
   <1192455653.696319.90710@q5g2000prf.googlegroups.com>
   <fevr18$if1$1@panix2.panix.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1192458782 11703 127.0.0.1 (15 Oct 2007 14:33:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 15 Oct 2007 14:33:02 +0000 (UTC)
In-Reply-To: <fevr18$if1$1@panix2.panix.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v29g2000prd.googlegroups.com; posting-host=170.121.15.35;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.antiques.radio+phono:11852
rec.radio.amateur.homebrew:1247 rec.radio.amateur.boatanchors:1402
sci.electronics.components:2888

On Oct 15, 9:47 am, klu...@panix.com (Scott Dorsey) wrote:
> sho...@trailing-edge.com <sho...@trailing-edge.com> wrote:
>
> >Like Scott Dorsey suggested, probably the way for me to go is to get 5
> >or 6 or 7 different color banana jacks and paint the knobs to match,
> >as it seems increasingly unlikely I'll get much match in "raw" knob
> >color, but still thanks to the others who posted about the multi-color
> >chickenheads available from AES (I had actually bought them in the
> >past!) and the knobs from Small Bear.
>
> Pomona Electronics plugs!  Nine colors available!  Stocked by Allied!http://
www.pomonaelectronics.com/pdf/d1325-5230-5406-6546_100.pdf

Actually, ten colors available! 0-9 is ten, not nine. Sometimes I fall
into FORTRAN mode too so I won't blame you for being off by one :-).

I don't know if the Pomona parts are 100% identical, but I just
ordered a few sets from Digikey sold under the "Emerson/Johnson" name.
I'm guessing they're all made in China by the same company:

  http://dkc3.digikey.com/PDF/T073/P0372.pdf

Using color-coded Banana plugs/jacks seems preferable to having
massive crossbar wiring, at least in my head.

Question for anyone who has used the Weston CA-1630: Am I correct that
there are pushbuttons in many of the knobs and this is somehow related
to either removing the function of the knob (pin selection) or
selecting that knob's function for stepping during curve tracing
(grid, plate, screen)?

Really wonderful link to a big pic (may not work!) showing the CA-1630
set up to test a 300B:
```

http://us.st11.yimg.com/us.st.yimg.com/I/yhst-8476489043850_1968_29319026

Tim.

From -3541106703964263363
X-Google-Thread: fc2a5,ab34db7b6333324b,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!fdn.fr!news.wanadoo.fr!news.wanadoo.fr!not-for-mail
From: "Robert Lacoste" <use-contact-at-www-alciom-com-for-email>
Newsgroups: rec.radio.amateur.homebrew
Subject: System level design tool ?
Date: Mon, 15 Oct 2007 17:13:30 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 000781-1, 14/10/2007), Outbound message
X-Antivirus-Status: Clean
Lines: 14
Message-ID: <47138394$0$5079$ba4acef3@news.orange.fr>
Organization: les newsgroups par Orange
NNTP-Posting-Date: 15 Oct 2007 17:13:24 CEST
NNTP-Posting-Host: 82.127.112.2
X-Trace: 1192461204 news.orange.fr 5079 82.127.112.2:13786
X-Complaints-To: abuse@orange.fr
Xref: g2news2.google.com rec.radio.amateur.homebrew:1248

Hi,

Do you know if there is a raisonnable cost or even open source RF system level simulator ? I mean a tool that allow someone to link boxes like generators, mixers, filters, gain blocks, etc, all defined by their black box parameters and simulate the system performances ? I know that high end tools like ADS have no poblem with that but I was wondering if there is something smaller, say just a little more powerful than the classic cascaded gain IP3/p1dB/NF excel spreadsheets ?

Thanks,
Robert

From 2023307672965290934
X-Google-Thread: 10c2ee,c7959662d673416d
X-Google-Thread: fc2a5,c7959662d673416d
X-Google-Thread: fc8b1,c7959662d673416d

X-Google-Thread: 1118be,c7959662d673416d
X-Google-Attributes: gid10c2ee,gidfc2a5,gidfc8b1,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews5.bellsouth.net.POSTED!92e1eec9!not-for-mail
From: <w5chr@bellsouth.net>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.components
References: <1192292438.137612.89420@e9g2000prf.googlegroups.com> <LawrenceSMITH-A1A4E8.10433514102007@news.verizon.net> <1192455653.696319.90710@q5g2000prf.googlegroups.com> <fevr18$if1$1@panix2.panix.com> <1192458782.369981.35300@v29g2000prd.googlegroups.com>
Subject: Re: Color-matching knobs, banana jacks, wire etc.
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Message-ID: <H7MQi.6386$s9.5024@bignews5.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace: ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcboieimpfckckjlldckpjgdlmafeohboikbpendhkfamplkjfeddhfpkonoianenokidpjlfmhamanilicnaeboicadooglkceedjflgidpkombipoj
NNTP-Posting-Date: Mon, 15 Oct 2007 11:59:35 EDT
Organization: BellSouth Internet Group
Date: Mon, 15 Oct 2007 10:59:30 -0500
Xref: g2news2.google.com rec.antiques.radio+phono:11858 rec.radio.amateur.homebrew:1249 rec.radio.amateur.boatanchors:1404 sci.electronics.components:2889

"Tim Shoppa" <shoppa@trailing-edge.com> wrote in message news:1192458782.369981.35300@v29g2000prd.googlegroups.com...
> Actually, ten colors available! 0-9 is ten, not nine. Sometimes I fall
> into FORTRAN mode too so I won't blame you for being off by one :-).
>
> I don't know if the Pomona parts are 100% identical, but I just
> ordered a few sets from Digikey sold under the "Emerson/Johnson" name.
> I'm guessing they're all made in China by the same company:
>
>   http://dkc3.digikey.com/PDF/T073/P0372.pdf
>

With wonderful toys like this available, made in China, the lead content should be checked!
Please, please do not put them in your mouth.

Mike W5CHR
Memphis

```
From -3313408988846055304
X-Google-Thread: 10c2ee,c7959662d673416d
X-Google-Thread: fc2a5,c7959662d673416d
X-Google-Thread: fc8b1,c7959662d673416d
X-Google-Thread: 1118be,c7959662d673416d
X-Google-Attributes: gid10c2ee,gidfc2a5,gidfc8b1,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k35g2000prh.googlegroups.com!not-for-
mail
From:  Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,
sci.electronics.components
Subject: Re: Color-matching knobs, banana jacks, wire etc.
Date: Mon, 15 Oct 2007 09:16:29 -0700
Organization: http://groups.google.com
Lines: 27
Message-ID: <1192464989.411252.84850@k35g2000prh.googlegroups.com>
References: <1192292438.137612.89420@e9g2000prf.googlegroups.com>
   <LawrenceSMITH-A1A4E8.10433514102007@news.verizon.net>
   <1192455653.696319.90710@q5g2000prf.googlegroups.com>
   <fevr18$if1$1@panix2.panix.com>
   <1192458782.369981.35300@v29g2000prd.googlegroups.com>
   <H7MQi.6386$s9.5024@bignews5.bellsouth.net>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1192464999 18960 127.0.0.1 (15 Oct 2007 16:16:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 15 Oct 2007 16:16:39 +0000 (UTC)
In-Reply-To: <H7MQi.6386$s9.5024@bignews5.bellsouth.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k35g2000prh.googlegroups.com; posting-host=170.121.15.35;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.antiques.radio+phono:11859
rec.radio.amateur.homebrew:1250 rec.radio.amateur.boatanchors:1405
sci.electronics.components:2890

On Oct 15, 11:59 am, <w5...@bellsouth.net> wrote:
> "Tim Shoppa" <sho...@trailing-edge.com> wrote in message
>
> news:1192458782.369981.35300@v29g2000prd.googlegroups.com...> Actually, ten
colors available! 0-9 is ten, not nine. Sometimes I fall
> > into FORTRAN mode too so I won't blame you for being off by one :-).
>
> > I don't know if the Pomona parts are 100% identical, but I just
> > ordered a few sets from Digikey sold under the "Emerson/Johnson" name.
```

> > I'm guessing they're all made in China by the same company:
>
> > http://dkc3.digikey.com/PDF/T073/P0372.pdf
>
>   With wonderful toys like this available, made in China, the lead content
> should be checked!
> Please, please do not put them in your mouth.

Hey, I grew up holding 60/40 solder in my mouth while plugging
krypton-85 filled regulator tubes in my left hand and turning knobs
just inches away from radium-filled meters with my right hand. None of
it made in china. And I'm perfectly normal!

Joking aside, it's pretty obvious that a test set with 1000V B+
running around obviously won't be in my kids' hands much less in their
mouths.

Tim.

From 6350747301557905722
X-Google-Thread: 10c2ee,c7959662d673416d
X-Google-Thread: fc2a5,c7959662d673416d
X-Google-Thread: fc8b1,c7959662d673416d
X-Google-Thread: 1118be,c7959662d673416d
X-Google-Attributes: gid10c2ee,gidfc2a5,gidfc8b1,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out02b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!
in04.usenetserver.com!news.usenetserver.com!nx01.iad01.newshosting.com!
newshosting.com!198.186.194.251.MISMATCH!news-out.readnews.com!
transit4.readnews.com!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,
sci.electronics.components
Subject: Re: Color-matching knobs, banana jacks, wire etc.
Date: 15 Oct 2007 13:22:42 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 24
Message-ID: <ff07l2$ff8$1@panix2.panix.com>
References: <1192292438.137612.89420@e9g2000prf.googlegroups.com>
<fevr18$if1$1@panix2.panix.com>
<1192458782.369981.35300@v29g2000prd.googlegroups.com>
<H7MQi.6386$s9.5024@bignews5.bellsouth.net>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1192468962 19946 166.84.1.2 (15 Oct 2007 17:22:42 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 15 Oct 2007 17:22:42 +0000 (UTC)
Xref: g2news2.google.com rec.antiques.radio+phono:11861
rec.radio.amateur.homebrew:1251 rec.radio.amateur.boatanchors:1407
sci.electronics.components:2891

```
In article <H7MQi.6386$s9.5024@bignews5.bellsouth.net>,
 <w5chr@bellsouth.net> wrote:
>"Tim Shoppa" <shoppa@trailing-edge.com> wrote in message
>news:1192458782.369981.35300@v29g2000prd.googlegroups.com...
>> Actually, ten colors available! 0-9 is ten, not nine. Sometimes I fall
>> into FORTRAN mode too so I won't blame you for being off by one :-).
>>
>> I don't know if the Pomona parts are 100% identical, but I just
>> ordered a few sets from Digikey sold under the "Emerson/Johnson" name.
>> I'm guessing they're all made in China by the same company:
>>
>>   http://dkc3.digikey.com/PDF/T073/P0372.pdf
>>
>    With wonderful toys like this available, made in China, the lead content
>should be checked!
>Please, please do not put them in your mouth.

I suspect the lead content on them is much lower than it should be.  The
Chinese are not exactly big into making quality phosphor bronze and most
of these sorts of parts coming from China tend to be made from cheap and
gummy cartridge brass.  That's okay for the socket, not so good for the plug.
--scott
--
"C'est un Nagra.  C'est suisse, et tres, tres precis."


From 2046696698597766534
X-Google-Thread: fc2a5,ab34db7b6333324b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!t8g2000prg.googlegroups.com!not-for-
mail
From:  K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: System level design tool ?
Date: Mon, 15 Oct 2007 15:34:40 -0700
Organization: http://groups.google.com
Lines: 33
Message-ID: <1192487680.419208.117320@t8g2000prg.googlegroups.com>
References: <47138394$0$5079$ba4acef3@news.orange.fr>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1192487683 26415 127.0.0.1 (15 Oct 2007 22:34:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 15 Oct 2007 22:34:43 +0000 (UTC)
In-Reply-To: <47138394$0$5079$ba4acef3@news.orange.fr>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.7)
Gecko/20070914 Firefox/2.0.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: t8g2000prg.googlegroups.com; posting-host=192.25.142.225;
```

```
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1252
```

On Oct 15, 8:13 am, "Robert Lacoste" <use-contact-at-www-alciom-com-for-email> wrote:

> Hi,
>
> Do you know if there is a raisonnable cost or even open source RF system level simulator ? I mean a tool that allow someone to link boxes like generators, mixers, filters, gain blocks, etc, all defined by their black box parameters and simulate the system performances ? I know that high end tools like ADS have no poblem with that but I was wondering if there is something smaller, say just a little more powerful than the classic cascaded gain IP3/p1dB/NF excel spreadsheets ?
>
> Thanks,
> Robert

The freeware RFSim99 will handle linear systems pretty well. You can define two-ports with whatever set of S parameters you want and place them schematically, and you can include passives and generic linear amplifiers.

It's possible to use Spice (e.g. LTSpice). It would be possible to define blocks including two-ports with specified nonlinearities and mixers, and be able to input parameterized things like gain, IP3 and NF. I've done some of that sort of thing for some system-level simulations I've done.

But I suppose neither one of those ideas quite hits the target you've put up...RFSim99 is turn-key but linear only, and Spice is potentially powerful but not turn-key for your application.

Cheers,
Tom

```
From 7878225154599702797
X-Google-Thread: fc2a5,ab34db7b6333324b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 15 Oct 2007 22:33:36 -0500
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <47138394$0$5079$ba4acef3@news.orange.fr>
<1192487680.419208.117320@t8g2000prg.googlegroups.com>
Subject: Re: System level design tool ?
Date: Mon, 15 Oct 2007 22:34:06 -0500
X-Priority: 3
```

```
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <Xtudnddi7KqNrInanZ2dnUVZ_tajnZ2d@comcast.com>
Lines: 49
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.12.232.54
X-Trace: sv3-8nQW9ni6M1ZFgwYF3HcIkVLMKdL8CiqQT8KUPgi+GuQKsnitVIKJu5rPJeS/5W/
TT4VNCuRL7Um7keR!
TW0UJkocFU2trgKzwI7SXgXNBJ8oSZUgrV4OkHayn4NU12kgjjHdlJ2CaxkjxmfuVij5OfxsnH5s!
uNFNFGHRRonwYIinlnnNvepcHfAr
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1253
```

RFSimm99 is a very good program. I also use a program called AppCad, from
the HP Woodshot website. When you talk about those excel spreadsheets, I am
not sure if you are referring to these programs, but for freeware, they are
very good.
There is also a program called RF Workbench.........this is a DOS program
that has an interface similar to AppCad, although RF Workbench will also do
spur charts for mixers.

Pete

"K7ITM" <k7itm@msn.com> wrote in message
news:1192487680.419208.117320@t8g2000prg.googlegroups.com...
> On Oct 15, 8:13 am, "Robert Lacoste" <use-contact-at-www-alciom-com-
> for-email> wrote:
>> Hi,
>>
>> Do you know if there is a raisonnable cost or even open source RF system
>> level simulator ? I mean a tool that allow someone to link boxes like
>> generators, mixers, filters, gain blocks, etc, all defined by their black
>> box parameters and simulate the system performances ? I know that high
>> end
>> tools like ADS have no poblem with that but I was wondering if there is
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>> Thanks,
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> define two-ports with whatever set of S parameters you want and place
> them schematically, and you can include passives and generic linear
> amplifiers.

>
> It's possible to use Spice (e.g. LTSpice). It would be possible to
> define blocks including two-ports with specified nonlinearities and
> mixers, and be able to input parameterized things like gain, IP3 and
> NF. I've done some of that sort of thing for some system-level
> simulations I've done.
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> put up...RFSim99 is turn-key but linear only, and Spice is potentially
> powerful but not turn-key for your application.
>
> Cheers,
> Tom
>

From -2042014308027029037
X-Google-Thread: fc2a5,1a4a56afd460c41,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: GERMAN,ASCII
Path: g2news2.google.com!postnews.google.com!t8g2000prg.googlegroups.com!not-for-mail
From: bernado <werner-grosse@web.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: answer - permanent ICMP Pings during Echolink operation - heise.de
Date: Mon, 15 Oct 2007 21:40:45 -0700
Organization: http://groups.google.com
Lines: 9
Message-ID: <1192509645.347434.114870@t8g2000prg.googlegroups.com>
NNTP-Posting-Host: 125.26.246.62
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1192509654 16658 127.0.0.1 (16 Oct 2007 04:40:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 16 Oct 2007 04:40:54 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; de; rv:1.8.1.6) Gecko/20070725 Firefox/2.0.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: t8g2000prg.googlegroups.com; posting-host=125.26.246.62;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1254

Here are the answers:

http://www.heise.de/newsticker/meldung/97369

Volksz=E4hlung im Internet: 2,8 Milliarden Pings in zwei Monaten
.=2E...........innerhalb von 62 Tagen 2,8 Milliarden Internet Control Mess=
age

```
Protocol ICMP echo-requests.........



From -5582535885922721125
X-Google-Thread: fc2a5,ab34db7b6333324b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!fdn.fr!
news.wanadoo.fr!news.wanadoo.fr!not-for-mail
From: "Robert Lacoste" <use-contact-at-www-alciom-com-for-email>
Newsgroups: rec.radio.amateur.homebrew
References: <47138394$0$5079$ba4acef3@news.orange.fr>
<1192487680.419208.117320@t8g2000prg.googlegroups.com>
<Xtudnddi7KqNrInanZ2dnUVZ_tajnZ2d@comcast.com>
Subject: Re: System level design tool ?
Date: Tue, 16 Oct 2007 09:06:28 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 000781-2, 15/10/2007), Outbound message
X-Antivirus-Status: Clean
Lines: 61
Message-ID: <471462f4$0$27369$ba4acef3@news.orange.fr>
Organization: les newsgroups par Orange
NNTP-Posting-Date: 16 Oct 2007 09:06:28 CEST
NNTP-Posting-Host: 82.127.112.2
X-Trace: 1192518388 news.orange.fr 27369 82.127.112.2:10323
X-Complaints-To: abuse@orange.fr
Xref: g2news2.google.com rec.radio.amateur.homebrew:1255

"Pete KE9OA" <p.gianako@comcast.net> a �crit dans le message de news:
Xtudnddi7KqNrInanZ2dnUVZ_tajnZ2d@comcast.com...
> RFSimm99 is a very good program. I also use a program called AppCad, from
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>> put up...RFSim99 is turn-key but linear only, and Spice is potentially
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>>
>> Cheers,
>> Tom
>>
>
>
```

Many thanks, I will look into RFSim99 and RF Workbench. A colleague also talked about QUCS, which seems to have an interesting features...

Cheers,
Robert

```
From 6363838049478072088
X-Google-Thread: 10c2ee,c7959662d673416d
X-Google-Thread: fc2a5,c7959662d673416d
X-Google-Thread: fc8b1,c7959662d673416d
X-Google-Thread: 1118be,c7959662d673416d
X-Google-Attributes: gid10c2ee,gidfc2a5,gidfc8b1,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.insightbb.com!
news.insightbb.com.POSTED!not-for-mail
```

```
NNTP-Posting-Date: Tue, 16 Oct 2007 19:59:46 -0500
From: "t.hoehler" <t.hoehler@insightbb.com>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,
sci.electronics.components
References: <1192292438.137612.89420@e9g2000prf.googlegroups.com>
<LawrenceSMITH-A1A4E8.10433514102007@news.verizon.net>
<1192455653.696319.90710@q5g2000prf.googlegroups.com>
<fevr18$if1$1@panix2.panix.com>
<1192458782.369981.35300@v29g2000prd.googlegroups.com>
Subject: Re: Color-matching knobs, banana jacks, wire etc.
Date: Tue, 16 Oct 2007 21:01:25 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <8aWdnRmHsf8fw4janZ2dnUVZ_rOqnZ2d@insightbb.com>
Lines: 46
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 74.130.81.114
X-Trace: sv3-An7kphfivavwJkZNTizIhLfMtMLnORI6pabw7gY5yv4TcRq4GIuYZaENviVu7mC7Fr2r+
+dGeAOeUAk!88P2jViieBxd8uAZ0MW6dufWZdtP/s8Tya9joJyfGa0L/ezYJoPv+uwCqqZqWa/
Uu1DU3Q04Sdyc!uX0PTkEASf3bFMP1Ng==
X-Complaints-To: abuse@insightbb.com
X-DMCA-Complaints-To: abuse@insightbb.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.antiques.radio+phono:11989
rec.radio.amateur.homebrew:1256 rec.radio.amateur.boatanchors:1422
sci.electronics.components:2912


"Tim Shoppa" <shoppa@trailing-edge.com> wrote in message
news:1192458782.369981.35300@v29g2000prd.googlegroups.com...
> On Oct 15, 9:47 am, klu...@panix.com (Scott Dorsey) wrote:
>> sho...@trailing-edge.com <sho...@trailing-edge.com> wrote:
>>
>> >Like Scott Dorsey suggested, probably the way for me to go is to get 5
>> >or 6 or 7 different color banana jacks and paint the knobs to match,
>> >as it seems increasingly unlikely I'll get much match in "raw" knob
>> >color, but still thanks to the others who posted about the multi-color
>> >chickenheads available from AES (I had actually bought them in the
>> >past!) and the knobs from Small Bear.
>>
>> Pomona Electronics plugs!  Nine colors available!  Stocked by
>> Allied!http://www.pomonaelectronics.com/pdf/d1325-5230-5406-6546_100.pdf
>
> Actually, ten colors available! 0-9 is ten, not nine. Sometimes I fall
> into FORTRAN mode too so I won't blame you for being off by one :-).
>
```

```
> I don't know if the Pomona parts are 100% identical, but I just
> ordered a few sets from Digikey sold under the "Emerson/Johnson" name.
> I'm guessing they're all made in China by the same company:
>
>  http://dkc3.digikey.com/PDF/T073/P0372.pdf
>
> Using color-coded Banana plugs/jacks seems preferable to having
> massive crossbar wiring, at least in my head.
>
> Question for anyone who has used the Weston CA-1630: Am I correct that
> there are pushbuttons in many of the knobs and this is somehow related
> to either removing the function of the knob (pin selection) or
> selecting that knob's function for stepping during curve tracing
> (grid, plate, screen)?
>
> Really wonderful link to a big pic (may not work!) showing the CA-1630
> set up to test a 300B:
>
>  http://us.st11.yimg.com/us.st.yimg.com/I/yhst-8476489043850_1968_29319026
>
> Tim.

Nice pic -  shame they didn't power it up when they took the pic.
Tom
>




From 6639658996519759447
X-Google-Thread: 1109af,ecd1f62df7537288,start
X-Google-Thread: 107ada,ecd1f62df7537288,start
X-Google-Thread: 107cee,ecd1f62df7537288,start
X-Google-Thread: f4e7d,ecd1f62df7537288,start
X-Google-Thread: 1130cb,ecd1f62df7537288,start
X-Google-Thread: fc2a5,ecd1f62df7537288,start
X-Google-Thread: fc8b1,ecd1f62df7537288,start
X-Google-Thread: 10b9c8,ecd1f62df7537288,start
X-Google-Attributes:
gid1109af,gid107ada,gid107cee,gidf4e7d,gid1130cb,gidfc2a5,gidfc8b1,gid10b9c8,publi
c,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!bloom-beacon.mit.edu!senator-bedfellow.mit.edu!dreaderd!not-
for-mail
Newsgroups:
rec.radio.swap,rec.radio.amateur.misc,sci.electronics.misc,ne.forsale,ne.general,r
ec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.info
Subject: ** FLEA at MIT **     Sunday October 21st    Cambridge MA
Summary: Buy Sell SWAP Ham Radio  Electronics Computers 9AM - 2PM
Expires: 10/22/07
Followup-To: poster
Approved: rec-radio-info@panix.com
```

Distribution: na
Organization: Massachvsetts Institvte of Technology
Keywords: Hamfest Fleamarket SWAPFEST Computers Ham Radio Electronics
From: w1gsl@mit.edu (Steven L. Finberg)
Date: 17 Oct 2007 01:12:42 GMT
Lines: 134
Message-ID: <4715618a$0$492$b45e6eb0@senator-bedfellow.mit.edu>
NNTP-Posting-Host: ALL-NIGHT-TOOL.MIT.EDU
X-Trace: 1192583562 senator-bedfellow.mit.edu 492 18.7.18.66
Xref: g2news2.google.com rec.radio.swap:1429 rec.radio.amateur.misc:2241 sci.electronics.misc:1905 ne.forsale:150 ne.general:866 rec.radio.amateur.homebrew:1257 rec.radio.amateur.boatanchors:1423 rec.radio.info:312

This comming Sunday...
The Seasons Last...

+++ Now even more Buyers Parking !!!
Thanks to Shire we have use of their new parking lot
across Albany St from the SWAPFEST !!!

!! ** More Buyers PARKING is available ** for details see
http://web.mit.edu/w1gsl/Public/flyer

*** !!!! In our Traditional GARAGE and the adjacent lot !!!! ****
so come rain or shine or super heat the Flea is on !!!

********* $1 buyers discount with hardcopy of this notice ********

COMPUTERS - ELECTRONICS - HAM RADIO - COMPUTERS - ELECTRONICS - HAM RADIO

FLEA all SUMMER at MIT
Sunday October 21st 2007
9AM-2PM

Come to the city for a great flea - plenty of free parking.

MIT's electronics and ham radio flea will take
place on the third Sunday of each month this summer,
April thru October.

There is tailgate space for over 600 sellers and
free, off-street parking for >2000 cars!

Buyers admission is $5 (you get $1 off if
you're lucky enough to have a copy of our ad)
and sellers spaces are $20 for the first and
$15 for each additional at the gate.

The flea will be held at the corner of Albany and
Main streets in Cambridge; right in the Kendall
Square area from 9AM to 2PM, with sellers set-up
time starting at 7AM.

SEASON PASS + Advance Seller Discount

A sellers discount season pass is available which offers a 30% discount. By prepaying you get a discount and earlier admission. See the registration form.

*** Attention Sellers ***
Prepaid vendors.. Season Pass or monthly,
will be admitted FIRST.
Separate lines will form prior to gate opening
for prepaid and nonprepaid vendors

!! RAIN or SHINE !! Have no fear of rain, a covered well illuminated tailgate area is available for all sellers (6'8" clearance).

Talk-in: 145.23- (PL 88.5) W1BOS/R and
W1XM/R-449.725/444.725 (PL 114.8/2A).

Sponsors: MIT Electronics Research Society
MIT UHF Repeater Association (W1XM)
MIT Radio Society (W1MX)
Harvard Wireless Club (W1AF)

For more info / advanced reservations 617 253 3776

********** $1 buyers discount with hard copy of this notice ************

<<<<<<<<<<<<<<<<<<<<<<<< cut here >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Mail the coupon below by the 5th of the month to be a Prepaid Vendor.

FLEA at MIT 2007 Rates

SELLERS

To use your prepaid spaces the named vendor MUST be present.
Rates include one admission per space.

Advance $17 First space
$12 Additional Spaces
Must be received by the 5th of the month.

Gate Admission $20 First Space
$15 Additional Spaces
Admission is after the prepaid vendors

Early Bird Buyer -Admission after the prepaid vendor line is admitted. ~ 7:15AM
** You may not sell. **
$15 per person at the gate.

****************************** cut here *******************************

FLEA at MIT 2007 Advance Space Application

____April ____May ____June ____ July ____Aug ___Sept ____Oct
@ $17 for the first each month + $12 each additional

Name ________________________ Call __________ $ Included______

Address ________________________ Phone __________ Make Check to
The MIT Radio Society
City ____________________ State _______ Zip _______ PO Box 397082
Cambridge MA 02139
E-mail ____

****
Steve Finberg W1GSL w1gsl@mit.edu
PO Box 82 MIT Br Cambridge MA 02139-7082 617 258 3754
****

From -7379224239830191640
X-Google-Thread: fc2a5,582592e1fb51662b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!z24g2000prh.googlegroups.com!not-for-mail
From: JoeinBend@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long Range Wireless Network

Date: Thu, 18 Oct 2007 02:36:38 -0000
Organization: http://groups.google.com
Lines: 36
Message-ID: <1192674998.208195.276400@z24g2000prh.googlegroups.com>
References: <1192000584.504288.137930@k79g2000hse.googlegroups.com>
   <fmmck-C4C998.23504510102007@nntp.aioe.org>
   <1192109979.132974.255470@g4g2000hsf.googlegroups.com>
   <fmmck-3355F4.14551312102007@nntp.aioe.org>
NNTP-Posting-Host: 70.193.67.130
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1192675010 30158 127.0.0.1 (18 Oct 2007 02:36:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 18 Oct 2007 02:36:50 +0000 (UTC)
In-Reply-To: <fmmck-3355F4.14551312102007@nntp.aioe.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.7)
Gecko/20070914 Firefox/2.0.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: z24g2000prh.googlegroups.com; posting-host=70.193.67.130;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1258

On Oct 12, 11:55 am, Fred McKenzie <fm...@aol.com> wrote:
> In article <1192109979.132974.255...@g4g2000hsf.googlegroups.com>,
>
> olaw...@gmail.com wrote:
> > Thanks for the responces, the proposal as rightly said is no different
> > from Wireless networks deployed by ISP in small communities.
>
> I think you are zeroing-in on a plan that will work. My point is that a
> 20Km radius is NOT a small community. While the VSAT link may have
> sufficient bandwidth, your wireless distribution system may not.
>
> It would help reduce the load by using a higher bandwidth method such as
> fiber, to interconnect the various local wireless base stations to the
> VSAT terminal, rather than using the wireless systems themselves for
> inter-site distribution.
>
> Remember that a wireless system's bandwidth is divided among all the
> users. As more users access the network at any one time, the slower
> will be the response.
>
> Fred
> K4DII

Just to chime in on this topic, I think some incorrect information was passed along regarding legality of transmission power - the FCC does in fact limit unlicensed maximum transmission wattage on the 2.4Ghz range, however the use of high gain antennas is NOT illegal. You can use extremely high gain directional antennas to achieve links over a 20+ mile LOS link, and still be within legal limits for unlicensed operation. Think of it as using as talking thru a funnel - all it is doing is using that same power more efficiently and more focused. Now if you are talking about running the signal thru and actual signal amplifier, then yes, that would be illegal.

2 cents

From 3690706744242428006
X-Google-Thread: fc2a5,582592e1fb51662b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long Range Wireless Network
Date: Thu, 18 Oct 2007 04:04:01 +0000 (UTC)
Organization: MGT Consulting
Lines: 34
Message-ID: <slrnfhdml6.lg4.gsm@cable.mendelson.com>
References: <1192000584.504288.137930@k79g2000hse.googlegroups.com> <fmmck-C4C998.23504510102007@nntp.aioe.org>
<1192109979.132974.255470@g4g2000hsf.googlegroups.com>
<fmmck-3355F4.14551312102007@nntp.aioe.org>
<1192674998.208195.276400@z24g2000prh.googlegroups.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-138-77-84.bb.netvision.net.il
X-Trace: marvin.inside.misty.com 1192680241 28853 89.138.77.84 (18 Oct 2007 04:04:01 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Thu, 18 Oct 2007 04:04:01 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1259

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> range, however the use of high gain antennas is NOT illegal. You can
> use extremely high gain directional antennas to achieve links over a
> 20+ mile LOS link, and still be within legal limits for unlicensed
> operation. Think of it as using as talking thru a funnel - all it is
> doing is using that same power more efficiently and more focused. Now
> if you are talking about running the signal thru and actual signal
> amplifier, then yes, that would be illegal.

Unfortunately, this is also incorrect. The limit is for EIRP. The more focused the beam, the higher the EIRP.

The exact limit the U.S. is 1 watt EIRP for mobile devices and 4 watts

EIRP for fixed (point to point) links. That's a combination of transmiter power plus antenna gain plus feed line loss.

Ham radio is limited to transmitter output power, which is quite different.

It could be worse, the limit here is 100mW EIRP.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
IL Voice: (07)-7424-1667 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/

```
From 8373365455275582061
X-Google-Thread: fc2a5,b34caa0e253f08b1,start
X-Google-Thread: 1131b0,b34caa0e253f08b1,start
X-Google-Attributes: gidfc2a5,gid1131b0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.velocitywest.net!
news.velocitywest.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 17 Oct 2007 23:04:13 -0500
Date: Wed, 17 Oct 2007 21:04:12 -0700
From: "H. P. Friedrichs" <nospam@please.com>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Schematics for Tektronix 11A34 / 119-2000-03
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <6Z-dnSyDYeCgRovanZ2dnUVZ_g-dnZ2d@velocitywest.net>
Lines: 28
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.183.70.9
X-Trace: sv3-
rxqXcDA7X8fPzEARgWlNcME5xwfSQQYasPf9VYMv3iDA7/9uNRHShCI7FJH0s0Xgwb7oG0ZMVvP7uHB!
Gl4uFKn30a53UUObsToeA9HCQkwAGA6HF8pVdiaxHkhF4VWfgBLGgvEK+9xCAhqQlAitHVjNSqaW!m9Wx/
BaJkZdm+nSScjcWEHtG
X-Complaints-To: abuse@velocitywest.net
X-DMCA-Complaints-To: abuse@velocitywest.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1260
sci.electronics.repair:12259
```

I am looking for schematics for a Tektronix 11A34 4-channel amplifier plug-in.

Inside the 11A34 are four smaller, self-contained amplifier modules, Tek part 119-2000-03... these are what I am really interested in.

I found a set of these amp modules, and it occurred to me that they might be good for some homebrew purpose. I figured I could mount them in a box with a power supply and use them as a external amp for an older scope, or possibly even a preamp for a homebrew receiver. In addition to what appears to be wide-band amplification circuitry, the modules also contain latching relays that I presume control input attenuation. I'm looking for signal descriptions for the terminal pads at the bottom of the modules.

I know that there are dealers that sell manuals, but I can't justify paying dealer price for a manual that may end up doing me no good. I'm simply trying to turn a few pieces of junk into something useful.

BAMA, by the way, doesn't seem to list this plug-in.

If you have any information on these parts, I'd sure appreciate it if you would pass it on. My email address is hpf[at]gainbroadband[dot]com

73,
Pete
AC7ZL
www.hpfriedrichs.com

```
From 6759430177752060711
X-Google-Thread: fc2a5,be44564c6c699725,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e9g2000prf.googlegroups.com!not-for-
mail
From:  pinball_wizzard_01 <pinball_wizzard_01@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 811 home brew
Date: Wed, 17 Oct 2007 23:05:12 -0700
Organization: http://groups.google.com
Lines: 8
Message-ID: <1192687512.632985.164050@e9g2000prf.googlegroups.com>
NNTP-Posting-Host: 69.156.98.65
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1192687513 5015 127.0.0.1 (18 Oct 2007 06:05:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 18 Oct 2007 06:05:13 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
```

Complaints-To: groups-abuse@google.com
Injection-Info: e9g2000prf.googlegroups.com; posting-host=69.156.98.65;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1261

I've been playing around with tube equipment since I was 17. I'm now
21 and building an old school transmitter. I'm running two 811 push
pull tube system, and the power supple is a ver impresive two 866 in
parallel system.

I'm hoping to have it finished by the spring, I have the power supply
finished and I look forward to starting the transmitter

From -8997928514785253866
X-Google-Thread: fc2a5,582592e1fb51662b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!news.astraweb.com!
border2.a.newsrouter.astraweb.com!newsfeed101.telia.com!nf02.dk.telia.net!
news.tele.dk!news.tele.dk!small.news.tele.dk!newsfeed1.swip.net!swipnet!
newsfeed1.funet.fi!newsfeeds.funet.fi!feeder1.news.saunalahti.fi!
reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long Range Wireless Network
Message-ID: <pa0eh3pptc3e4auf1lfhvu5dc5viqvc8lg@4ax.com>
References: <1192000584.504288.137930@k79g2000hse.googlegroups.com> <fmmck-
C4C998.23504510102007@nntp.aioe.org>
<1192109979.132974.255470@g4g2000hsf.googlegroups.com>
<fmmck-3355F4.14551312102007@nntp.aioe.org>
<1192674998.208195.276400@z24g2000prh.googlegroups.com>
<slrnfhdml6.lg4.gsm@cable.mendelson.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 49
Date: Thu, 18 Oct 2007 10:19:14 +0300
NNTP-Posting-Host: 195.197.41.158
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1192691878 195.197.41.158 (Thu, 18 Oct 2007
10:17:58 EEST)
NNTP-Posting-Date: Thu, 18 Oct 2007 10:17:58 EEST
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:1262

On Thu, 18 Oct 2007 04:04:01 +0000 (UTC), gsm@mendelson.com (Geoffrey
S. Mendelson) wrote:

> JoeinBend@gmail.com wrote:

>> Just to chime in on this topic, I think some incorrect information was
>> passed along regarding legality of transmission power - the FCC does
>> in fact limit unlicensed maximum transmission wattage on the 2.4Ghz
>> range, however the use of high gain antennas is NOT illegal. You can
>> use extremely high gain directional antennas to achieve links over a
>> 20+ mile LOS link, and still be within legal limits for unlicensed
>> operation.

Running a 32 km LOS link is problematic in practice. At least the first Fresnel zone should be clear of obstacles. At midpoint you should have about 30 m free space _below_ the direct optical path (i.e. you would have to add 30 m to the antenna towers), but still you should have 10-20 dB fade margins for reliable operation.

>>Think of it as using as talking thru a funnel - all it is
>> doing is using that same power more efficiently and more focused. Now
>> if you are talking about running the signal thru and actual signal
>> amplifier, then yes, that would be illegal.
>
>Unfortunately, this is also incorrect. The limit is for EIRP. The more focused
>the beam, the higher the EIRP.
>
>The exact limit the U.S. is 1 watt EIRP for mobile devices and 4 watts
>EIRP for fixed (point to point) links. That's a combination of transmiter
>power plus antenna gain plus feed line loss.

Assuming ordinary +20 dBm cards with 16 dBi antennas at both ends, you would end up to the +36 dBm EiRP (4 W) transmit power. The free space loss at 32 km and 2.45 GHz is 130 dB, so the receiver would get -94 dBm, which is very little for broadband traffic, especially that figure does not contain the fade margin. In fact using +10 dBm cards and 26 dBi antennas would give 10 dB more receiving power.

>Ham radio is limited to transmitter output power, which is quite different.
>
>It could be worse, the limit here is 100mW EIRP.

If you can find a WLAN card with separate Rx and Tx port, put an omnidirectional antenna on the Tx port and a 2 m paraboloid (30-33 dBi gain) on the Rx port and quite long point to point systems could still be built. Of course any interference within the beam would also be picked up.

Paul OH3LWR

From 700616614581649546
X-Google-Thread: fc2a5,582592e1fb51662b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!

198.186.194.251.MISMATCH!transit4.readnews.com!news-out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long Range Wireless Network
Date: Thu, 18 Oct 2007 08:49:23 +0000 (UTC)
Organization: MGT Consulting
Lines: 25
Message-ID: <slrnfhe768.ohm.gsm@cable.mendelson.com>
References: <1192000584.504288.137930@k79g2000hse.googlegroups.com> <fmmck-C4C998.23504510102007@nntp.aioe.org>
<1192109979.132974.255470@g4g2000hsf.googlegroups.com>
<fmmck-3355F4.14551312102007@nntp.aioe.org>
<1192674998.208195.276400@z24g2000prh.googlegroups.com>
<slrnfhdml6.lg4.gsm@cable.mendelson.com>
<pa0eh3pptc3e4auf1lfhvu5dc5viqvc8lg@4ax.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-138-77-84.bb.netvision.net.il
X-Trace: marvin.inside.misty.com 1192697363 25627 89.138.77.84 (18 Oct 2007 08:49:23 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Thu, 18 Oct 2007 08:49:23 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1263

Paul Keinanen wrote:

> Assuming ordinary +20 dBm cards with 16 dBi antennas at both ends, you
> would end up to the +36 dBm EiRP (4 W) transmit power.

Which puts you right at the legal limit for the U.S. If your transmitter is slightly higher power, or the antenna is more efficent you go over the limit.

> The free space
> loss at 32 km and 2.45 GHz is 130 dB, so the receiver would get -94
> dBm, which is very little for broadband traffic, especially that
> figure does not contain the fade margin. In fact using +10 dBm cards
> and 26 dBi antennas would give 10 dB more receiving power.

If I understand you correctly the EIRP would remain the same?

Around 1980 I worked a place that used IR beams for high speed (4800bps), data and it worked until someone built a hotel in the way. :-)

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
IL Voice: (07)-7424-1667 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/

From 409181170954609341

X-Google-Thread: fc2a5,b34caa0e253f08b1
X-Google-Thread: 1131b0,b34caa0e253f08b1
X-Google-Attributes: gidfc2a5,gid1131b0,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!sn-xt-sjc-05!sn-xt-sjc-09!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Schematics for Tektronix 11A34 / 119-2000-03
Date: Thu, 18 Oct 2007 06:12:35 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13hemtq8qrogj5d@corp.supernews.com>
References: <6Z-dnSyDYeCgRovanZ2dnUVZ_g-dnZ2d@velocitywest.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 11
Xref: g2news2.google.com rec.radio.amateur.homebrew:1264
sci.electronics.repair:12274

Hi Pete:

I replied to your e-mail account, but your "folder was full". Guess that means you have been living well.

Local friend may be able to help. I forwarded your post to him. Contact me for further info.

73, Colin K7FM

From 7155036129375747380
X-Google-Thread: fc2a5,582592e1fb51662b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out04a.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!spln!
extra.newsguy.com!sn-xt-sjc-02!sn-xt-sjc-08!sn-xt-sjc-01!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long Range Wireless Network
Date: Thu, 18 Oct 2007 11:22:20 -0700
Organization: Home for Obscure Mythical Beings
Message-ID: <srkku4-q7o.ln1@radagast.org>
References: <1192000584.504288.137930@k79g2000hse.googlegroups.com>
<1192674998.208195.276400@z24g2000prh.googlegroups.com>
<slrnfhdml6.lg4.gsm@cable.mendelson.com>

<pa0eh3pptc3e4auf1lfhvu5dc5viqvc8lg@4ax.com>
X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
X-Complaints-To: abuse@supernews.com
Lines: 40
Xref: g2news2.google.com rec.radio.amateur.homebrew:1265

In article <pa0eh3pptc3e4auf1lfhvu5dc5viqvc8lg@4ax.com>,
Paul Keinanen <keinanen@sci.fi> wrote:

>Running a 32 km LOS link is problematic in practice. At least the first Fresnel zone should be clear of obstacles. At midpoint you should have about 30 m free space _below_ the direct optical path (i.e. you would have to add 30 m to the antenna towers), but still you should have 10-20 dB fade margins for reliable operation.

I understand that there's another issue with long links which can cause some problems. 802.11 cards are designed to automatically acknowledge packets received, and retransmit them if they aren't acknowledged promptly. This retransmission protocol is done by the card firmware, and occurs below the level of any operating-system packet acknowledgement or retransmission (e.g. TCP).

The automatic-retransmission timeouts in the cards are set to a fairly short time-period, in order to improve throughput under typical usage conditions.

A 32 km link is going to have a round-trip time of around 200 microseconds. If the transmitting card's timeout value is set to less than this, it'll start retransmitting the "lost" packet before a successful acknowledgement can come back. Lather, rinse, repeat.

Traffic will actually get through, I gather... the successfully-received packets will be forwarded to their destination, even though the sending card thinks that they haven't been received (and logs them as "discarded, excessive retransmits"). Throughput suffers badly, though.

Some cards and/or access points apparently allow the retransmission timeout value to be changed, to allow for sufficient speed-of-light travel time.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From 7004505314394880835
X-Google-Thread: fc2a5,582592e1fb51662b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!news.astraweb.com!
newsrouter-eu.astraweb.com!newsfeed101.telia.com!nf02.dk.telia.net!
newsfeed.bahnhof.se!feeder1.news.saunalahti.fi!reader1.news.saunalahti.fi!
53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long Range Wireless Network
Message-ID: <06hgh3dn12pfc5kj5rvqv5o51q4b86jepc@4ax.com>
References: <1192000584.504288.137930@k79g2000hse.googlegroups.com>
<1192674998.208195.276400@z24g2000prh.googlegroups.com>
<slrnfhdml6.lg4.gsm@cable.mendelson.com>
<pa0eh3pptc3e4auf1lfhvu5dc5viqvc8lg@4ax.com> <srkku4-q7o.ln1@radagast.org>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 38
Date: Fri, 19 Oct 2007 09:48:40 +0300
NNTP-Posting-Host: 195.197.47.172
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1192776443 195.197.47.172 (Fri, 19 Oct 2007
09:47:23 EEST)
NNTP-Posting-Date: Fri, 19 Oct 2007 09:47:23 EEST
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:1266

On Thu, 18 Oct 2007 11:22:20 -0700, dplatt@radagast.org (Dave Platt)
wrote:

>In article <pa0eh3pptc3e4auf1lfhvu5dc5viqvc8lg@4ax.com>,
>Paul Keinanen <keinanen@sci.fi> wrote:
>
>>Running a 32 km LOS link is problematic in practice. At least the
>>first Fresnel zone should be clear of obstacles. At midpoint you
>>should have about 30 m free space _below_ the direct optical path
>>(i.e. you would have to add 30 m to the antenna towers), but still you
>>should have 10-20 dB fade margins for reliable operation.
>
>I understand that there's another issue with long links which can
>cause some problems. 802.11 cards are designed to automatically
>acknowledge packets received, and retransmit them if they aren't
>acknowledged promptly. This retransmission protocol is done by the
>card firmware, and occurs below the level of any operating-system
>packet acknowledgement or retransmission (e.g. TCP).

Fade rates typically vary between a few times a second to several
days, thus resending a frame one millisecond after the initial frame
is not usually going to make a big difference, if the initial frame
was, say 10 dB below the threshold (i.e. deep in the noise).

While COFDM and various spread spectrum systems will help combating
(fast) frequency selective fading, but these do not help in slow fade

due to varying vertical atmospheric temperature and humidity profiles.

You still need the fade margin for slow fading, if reliable communication is required.

The situation is different in typical amateur radio usage, in which you are most interested in rare situations, in which the signal strength increase above the average signal level, thus increasing the communication range in rare occasions.

Paul OH3LWR

```
From 7598405185158683649
X-Google-Thread: fc2a5,56beb21b0a5040e9,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i13g2000prf.googlegroups.com!not-for-
mail
From:  "hxc98@yahoo.com" <hxc98@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: APRSPoint 4.4 is released
Date: Sat, 20 Oct 2007 11:54:30 -0700
Organization: http://groups.google.com
Lines: 15
Message-ID: <1192906470.895252.24160@i13g2000prf.googlegroups.com>
NNTP-Posting-Host: 58.19.33.171
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1192906471 31338 127.0.0.1 (20 Oct 2007 18:54:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 20 Oct 2007 18:54:31 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; Alexa
Toolbar),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i13g2000prf.googlegroups.com; posting-host=58.19.33.171;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1267
```

New in this version,

1. Improved log file replay, with the ability to apply track list and filters during the file loading process to reproduce different tracking scenarios, and the ability to adjust replay speed,
2. Added TCP raw data window, and option to turn it on/off for better performance,
3. Improved subnet filter handling,
4. Streamlined filter, settings, and track options interface, plus other enhancements,

Visit www.aprspoint.com for more details and download.

Michael, KF6ZDM

From 4735074438191015060
X-Google-Thread: fc2a5,be44564c6c699725
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe12.lga.POSTED!53ab2750!not-for-mail
From: ricknj10@hotmail.com (Rick)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 811 home brew
Reply-To: ricknj10@hotmail.com
Message-ID: <471a7653.290537921@news.optonline.net>
References: <1192687512.632985.164050@e9g2000prf.googlegroups.com>
X-Newsreader: Forte Free Agent 1.21/32.243
Lines: 11
Date: Sat, 20 Oct 2007 21:44:29 GMT
NNTP-Posting-Host: 67.82.179.222
X-Complaints-To: abuse@cv.net
X-Trace: newsfe12.lga 1192916667 67.82.179.222 (Sat, 20 Oct 2007 14:44:27 MST)
NNTP-Posting-Date: Sat, 20 Oct 2007 14:44:27 MST
Organization: Optimum Online
Xref: g2news2.google.com rec.radio.amateur.homebrew:1268

On Wed, 17 Oct 2007 23:05:12 -0700, pinball_wizzard_01
<pinball_wizzard_01@hotmail.com> wrote:
I'm running two 811 push
>pull tube system, and the power supple is a ver impresive two 866 in
>parallel system.

Congratulations on your project. If you need any help with parts or
whatever, just let us know, you never know what might be overflowing
out of some hams junkbox and just what you need.

Rick K2XT

From 8499942878039132744
X-Google-Thread: fc2a5,551366c5f2e61b96,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!news.glorb.com!
newsfeed-3001.bay.webtv.net!newssorter-3001.bay.webtv.net!not-for-mail
From: ogrowup@webtv.net (Padraigh ProAmerica)
Newsgroups: rec.radio.amateur.homebrew
Subject: ATTN Homebrewers!

```
Date: Sat, 20 Oct 2007 17:50:29 -0400
Organization: WebTV Subscriber
Lines: 19
Message-ID: <25379-471A7825-200@storefull-3116.bay.webtv.net>
NNTP-Posting-Host: localhost.webtv.net
Mime-Version: 1.0 (WebTV)
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
X-WebTV-Signature: 1
     ETAsAhQtw8TB9YuJ8KFFtnkj43vXQU84yQIUViSSBw3/81uFQqKNVuJpkPUST1E=
Content-Disposition: Inline
Xref: g2news2.google.com rec.radio.amateur.homebrew:1269
X-Original-Bytes: 1338
```

The latest issue of QST ha a interesting article.

It seems that soldiers today are carrying up to 40 pounds of batteries for all the gear they carry.

The US Army, looking to reduce this load, is seeking a portable power supply.

This proposed unit must provide 20W output for a minimum of 96 hours, and weigh less than 4 kilos (about 8.8 pounds). The design contest is open to all, and the designer who comes up with the best design wil receive $1,000,000.

See Oct. QST for further information.

AMATEUR RADIO: A National resource!
For more information about amateur radio go to
<www.arrl.org>

```
From -7923183441301656496
X-Google-Thread: fc2a5,5e0159945cee1cd,start
X-Google-Thread: 112d1e,5e0159945cee1cd,start
X-Google-Attributes: gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q3g2000prf.googlegroups.com!not-for-
mail
From:  michael.jh.ng@gmail.com
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: TEA5757 radio design
Date: Sun, 21 Oct 2007 07:27:04 -0000
Organization: http://groups.google.com
Lines: 29
Message-ID: <1192951624.453574.251130@q3g2000prf.googlegroups.com>
NNTP-Posting-Host: 66.245.218.155
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1192951625 12295 127.0.0.1 (21 Oct 2007 07:27:05 GMT)
```

X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 21 Oct 2007 07:27:05 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.8.1.7)
Gecko/20070914 Firefox/2.0.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q3g2000prf.googlegroups.com; posting-host=66.245.218.155;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1270
sci.electronics.design:48684

Hello,

I've been "designing" a Philips TEA5757-based radio by fitting readily available components (i.e. from Digikey or Mouser) into the outdated application circuit. I'm currently stuck on the FM front-end tank circuit; I'm not quite sure I understand how it's done in the application diagram (page 27 of the TEA5757 datasheet). By my calculations, it shouldn't work.

The tank consists of a dual varactor (BB804), a 10 pF trimmer, and a RF coil that I cannot find the specs for (Toko MC117 E523FN-2000242). The schematic says the coil has 38 pF capacitance, and from comparison with current Toko coils and googling I'm guessing that it's an unshielded coil with a Q > 100 and an inductance < 100 nH. From the BB804 datasheet, each individual varactor has an effective range of 20-60 pF (generous assumption given 12V supply), so the series combination results in 10-30 pF.

Altogether, the capacitance range is 48 to 68 pF, and 68/48 = 1.42. We need (108/88)^2 = 1.5 to tune the FM radio band. Stray capacitance and the trimmer don't help. I doubt Philips would provide a bum application diagram, so I must be missing something.

Thanks,
Mike

http://www.nxp.com/acrobat_download/datasheets/TEA5757_5759_3.pdf
http://www.nxp.com/acrobat_download/datasheets/BB804_3.pdf

From 1449508003471092785
X-Google-Thread: fc2a5,5e0159945cee1cd
X-Google-Thread: 112d1e,5e0159945cee1cd
X-Google-Attributes: gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e34g2000pro.googlegroups.com!not-for-mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: TEA5757 radio design
Date: Sun, 21 Oct 2007 02:17:14 -0700

```
Organization: http://groups.google.com
Lines: 45
Message-ID: <1192958234.815729.311750@e34g2000pro.googlegroups.com>
References: <1192951624.453574.251130@q3g2000prf.googlegroups.com>
NNTP-Posting-Host: 222.155.177.38
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1192958235 800 127.0.0.1 (21 Oct 2007 09:17:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 21 Oct 2007 09:17:15 +0000 (UTC)
In-Reply-To: <1192951624.453574.251130@q3g2000prf.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e34g2000pro.googlegroups.com; posting-host=222.155.177.38;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1271
sci.electronics.design:48687

On Oct 21, 8:27 pm, michael.jh...@gmail.com wrote:
> Hello,
>
> I've been "designing" a Philips TEA5757-based radio by fitting readily
> available components (i.e. from Digikey or Mouser) into the outdated
> application circuit. I'm currently stuck on the FM front-end tank
> circuit; I'm not quite sure I understand how it's done in the
> application diagram (page 27 of the TEA5757 datasheet). By my
> calculations, it shouldn't work.
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> The schematic says the coil has 38 pF capacitance, and from comparison
> with current Toko coils and googling I'm guessing that it's an
> unshielded coil with a Q > 100 and an inductance < 100 nH. From the
Hi Mike,

Digging for data on the Toko MC117 series... http://81.149.89.17/Pages/MOLD/
page91.htm

The E523FN-2000242 isn't shown, but there does appear to be a
relationship between PN and inductance (2xxxxxx indicates 2.5 turns)
which seems to be in the 55-66nH range.

Hope that helps a little bit.

Regards,

Mark


> BB804 datasheet, each individual varactor has an effective range of
> 20-60 pF (generous assumption given 12V supply), so the series
```

> combination results in 10-30 pF.
>
> Altogether, the capacitance range is 48 to 68 pF, and 68/48 = 1.42. We
> need (108/88)^2 = 1.5 to tune the FM radio band. Stray capacitance and
> the trimmer don't help. I doubt Philips would provide a bum
> application diagram, so I must be missing something.
>
> Thanks,
> Mike
>
> http://www.nxp.com/acrobat_download/datasheets/TEA5757_5759_3.pdfhttp://www.nxp.com/acrobat_download/datasheets/BB804_3.pdf

---

From 6412962065701274994
X-Google-Thread: fc2a5,a82061509fc9f253,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!sn-xt-sjc-04!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Norman" <nedyck@sasktel.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Duplexer
Date: Sun, 21 Oct 2007 09:07:03 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13hmqoo951ibr75@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 8
Xref: g2news2.google.com rec.radio.amateur.homebrew:1272

I am looking for a used duplexer for the 144- 148 MHz band

Can anybody help me

Thanks
Norman Dyck

From 6883269299021531271
X-Google-Thread: fc2a5,5e0159945cee1cd
X-Google-Thread: 112d1e,5e0159945cee1cd
X-Google-Attributes: gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!newshub.sdsu.edu!

```
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr14.news.prodigy.net.POSTED!78bb86ef!not-for-
mail
From: JosephKK <joseph_barrett@sbcglobal.net>
Subject: Re: TEA5757 radio design
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Followup-To: rec.radio.amateur.homebrew
References: <1192951624.453574.251130@q3g2000prf.googlegroups.com>
<1192958234.815729.311750@e34g2000pro.googlegroups.com>
Lines: 56
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <XtPSi.11596$4V6.1481@newssvr14.news.prodigy.net>
NNTP-Posting-Host: 71.128.110.241
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr14.news.prodigy.net 1193001975 ST000 71.128.110.241 (Sun, 21 Oct
2007 17:26:15 EDT)
NNTP-Posting-Date: Sun, 21 Oct 2007 17:26:15 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
FKPGG[[DFJWSCRT^LJK@N_@@AJYFBL@MAHU^_BAMEH]TCDYG^WHOPCWZBL[\YUWHANGYZEFNHFZPNLOBUN
SS^_LGEVWEY\PHO@YJSSWBBDT\PFD^ESBTXVCCMTD]JCJLE\_IJMFNRY]SWE[S[D_CNB__ZK^VGVCKHA[S
@COB^[@ZQSDFQ\BPMS@DZVUKQTJL
Date: Sun, 21 Oct 2007 21:26:15 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1273
sci.electronics.design:48813

MarkAren markaren10@yahoo.com posted to sci.electronics.design:

> On Oct 21, 8:27 pm, michael.jh...@gmail.com wrote:
>> Hello,
>>
>> I've been "designing" a Philips TEA5757-based radio by fitting
>> readily available components (i.e. from Digikey or Mouser) into the
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>> By my calculations, it shouldn't work.
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>> E523FN-2000242). The schematic says the coil has 38 pF capacitance,
>> and from comparison with current Toko coils and googling I'm
>> guessing that it's an unshielded coil with a Q > 100 and an
>> inductance < 100 nH. From the
> Hi Mike,
>
> Digging for data on the Toko MC117 series...
> http://81.149.89.17/Pages/MOLD/page91.htm
>
> The E523FN-2000242 isn't shown, but there does appear to be a
```

> relationship between PN and inductance (2xxxxxx indicates 2.5 turns)
> which seems to be in the 55-66nH range.
>
> Hope that helps a little bit.
>
> Regards,
>
> Mark
>
>
>> BB804 datasheet, each individual varactor has an effective range of
>> 20-60 pF (generous assumption given 12V supply), so the series
>> combination results in 10-30 pF.
>>
>> Altogether, the capacitance range is 48 to 68 pF, and 68/48 = 1.42.
>> We need (108/88)^2 = 1.5 to tune the FM radio band. Stray
>> capacitance and the trimmer don't help. I doubt Philips would
>> provide a bum application diagram, so I must be missing something.
>>
>> Thanks,
>> Mike
>>
>>
http://www.nxp.com/acrobat_download/datasheets/TEA5757_5759_3.pdfhttp://www.nxp.com/acrobat_download/datasheets/BB804_3.pdf

Just a wild guess, but the 38 pF may be the capacitance required to be resonant at 100 MHz. Inductors below 1 uH rarely have parallel capacitances above 1 pF. And remember that 10 pF is a variable trimmer.

Put this into your assumptions and see how it works.

From 757879261312984030
X-Google-Thread: fc2a5,582592e1fb51662b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!out01b.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!in03.usenetserver.com!news.usenetserver.com!spln!extra.newsguy.com!sn-xt-sjc-02!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Norman" <nedyck@sasktel.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long Range Wireless Network
Date: Sun, 21 Oct 2007 18:11:54 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13hnqmneapevodc@corp.supernews.com>
References: <1192000584.504288.137930@k79g2000hse.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 19
Xref: g2news2.google.com rec.radio.amateur.homebrew:1274

You can try the Motorola Canopy system. We, at work, use both the 5.7 GHz
and the 900 MHz systems and get a good 20 to 30 KM range. The web site is
http://motorola.canopywireless.com/solutions/

Norman
<olawumi@gmail.com> wrote in message
news:1192000584.504288.137930@k79g2000hse.googlegroups.com...
>I am trying to establish a wireless network for Internet Access, Video
> Conferencing and Intranet Applications, I though to use either a
> 2.4GHz Sector or Omni Directional Antenna would do the job but I can
> find any product that goes as far the distance I am trying to cover (a
> radius of 20Km). My idea is to use a powerful radio with the Antenna
> monted on a tall mast at the location of the internet feed (via VSAT),
> this location is idea for LOS at the other locations.
>
> Does anybody has experience/advise with this ?
>

From -4265975849829983273
X-Google-Thread: fc2a5,be44564c6c699725
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix3.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 811 home brew
Date: Sun, 21 Oct 2007 21:19:42 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 19
Message-ID: <Pine.NEB.4.64.0710212117530.23810@panix3.panix.com>
References: <1192687512.632985.164050@e9g2000prf.googlegroups.com>
NNTP-Posting-Host: panix3.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader1.panix.com 1193015983 28835 166.84.1.3 (22 Oct 2007 01:19:43 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 22 Oct 2007 01:19:43 +0000 (UTC)
In-Reply-To: <1192687512.632985.164050@e9g2000prf.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:1275

On Wed, 17 Oct 2007, pinball_wizzard_01 wrote:

> I've been playing around with tube equipment since I was 17. I'm now
> 21 and building an old school transmitter. I'm running two 811 push
> pull tube system, and the power supple is a ver impresive two 866 in
> parallel system.
>
> I'm hoping to have it finished by the spring, I have the power supply
> finished and I look forward to starting the transmitter
>

You didn't tell us what bands this was going to be for. Higher frequency
might need neutralizations.

2x811 in push-pull? Probably grounded cathode, but you didn't mention that
either. It is possible to run grounded grid push pull, but it's rare.

```
From -4451868311158732485
X-Google-Thread: fc2a5,5e0159945cee1cd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!t8g2000prg.googlegroups.com!not-for-
mail
From:  mng <michael.jh.ng@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: TEA5757 radio design
Date: Sun, 21 Oct 2007 23:02:39 -0700
Organization: http://groups.google.com
Lines: 69
Message-ID: <1193032959.156358.277080@t8g2000prg.googlegroups.com>
References: <1192951624.453574.251130@q3g2000prf.googlegroups.com>
   <1192958234.815729.311750@e34g2000pro.googlegroups.com>
   <XtPSi.11596$4V6.1481@newssvr14.news.prodigy.net>
NNTP-Posting-Host: 66.245.218.155
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1193032959 25742 127.0.0.1 (22 Oct 2007 06:02:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 22 Oct 2007 06:02:39 +0000 (UTC)
In-Reply-To: <XtPSi.11596$4V6.1481@newssvr14.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.8.1.7)
Gecko/20070914 Firefox/2.0.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: t8g2000prg.googlegroups.com; posting-host=66.245.218.155;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1276
```

On Oct 21, 2:26 pm, JosephKK <joseph_barr...@sbcglobal.net> wrote:
> MarkAren markare...@yahoo.com posted to sci.electronics.design:
>
>

>
> > On Oct 21, 8:27 pm, michael.jh...@gmail.com wrote:
> >> Hello,
>
> >> I've been "designing" a Philips TEA5757-based radio by fitting
> >> readily available components (i.e. from Digikey or Mouser) into the
> >> outdated application circuit. I'm currently stuck on the FM
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> >> inductance < 100 nH. From the
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>
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> >http://81.149.89.17/Pages/MOLD/page91.htm
>
> > The E523FN-2000242 isn't shown, but there does appear to be a
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> > which seems to be in the 55-66nH range.
>
> > Hope that helps a little bit.
>
> > Regards,
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> > Mark
>
> >> BB804 datasheet, each individual varactor has an effective range of
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> >> Thanks,
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>
> http://www.nxp.com/acrobat_download/datasheets/TEA5757_5759_3.pdfhttp...
>
> Just a wild guess, but the 38 pF may be the capacitance required to be
> resonant at 100 MHz. Inductors below 1 uH rarely have parallel
> capacitances above 1 pF. And remember that 10 pF is a variable
> trimmer.
>
> Put this into your assumptions and see how it works.

Ah, that makes a lot of sense. I was under the impression that these
coils had built-in capacitors, but after comparison with other Toko
datasheets, the ones that have caps say "available with internal
capacitance".

With the new numbers, the capacitance ratio is sufficient, but the
required inductance comes to around 100 nH. That sounds reasonable to
me.

Thanks for the help,
Mike

From 6670062399423916949
X-Google-Thread: fc2a5,90af4c134c0a64d4
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <auqdnb24quGF72jbRVnygQA@pipex.net> <YrCdnfZ9-aGE6mjbnZ2dnUVZ_g2dnZ2d@comcast.com> <-KGdnSASN8MhXGvbnZ2dnUVZ8s-qnZ2d@pipex.net>
Subject: Re: Instrument Case For Transceiver
Date: Mon, 22 Oct 2007 08:49:01 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 36
Message-ID: <471c9c3a$0$9592$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 71.68.80.78
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:1277

"charlie" <wehatespam@wymsey.co.uk> wrote in message
news:-KGdnSASN8MhXGvbnZ2dnUVZ8s-qnZ2d@pipex.net...
> gb wrote:
> <SNIP>
>>
>> I am going to use an old modem case (hopefully).
>> Hundreds of thousands of analog modems at retail office / stores across
>> world have hit the trash heap in past 20 years. Some are all plastic,
>> but I
>> have retrieved one that may work for my future BIT20A kit.
>>
>> w9gb
>>

>>
> gb,
>
> Thanks for responding, that's a good idea for homebrewing. I think that I have found what I want at a reasonable price.
> (see http://www.hammondmfg.com/1455.htm)
>
>
> Charlie.
>
> --
> M0WYM
> www.radiowymsey.org

Whenever I build something like this I often put it in a fairly oversized case to leave room for future mods and add-ons. Old instrument cases are a favorite.

Jimmie

From -6284993382749495770
X-Google-Thread: fc2a5,3973124b87065835,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!post02.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: graphic equalizer
Date: Mon, 22 Oct 2007 09:41:21 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
Lines: 10
Message-ID: <471ca8f3$0$16516$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 71.68.80.78
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:1278

I have a couple of graphic equalizers I would like to modify for amateur radio use.
They cover 12 bands are all but useless for radio work because each band is much to broad as well is the overall bandwidth. I want to narrow it down so that the overall bandwidth is about 3Khz and the 12 bands equally devide to fill this. It seems I saw an article about such a project several years ago.

JIMMIE

From -3661353471452627935
X-Google-Thread: fc2a5,6eb6ae47b6bf556b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <13gqakenbq5065d@corp.supernews.com>
Subject: Re: A better battery case?
Date: Mon, 22 Oct 2007 12:34:24 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
Lines: 25
Message-ID: <471cd10e$0$11464$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 71.68.80.78
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:1279

"Dave" <db5151@hotmail.com> wrote in message news:13gqakenbq5065d@corp.supernews.com...

> Anyone know where I can find a 12V AA (8-cell) battery case w/cover, for my current homebrew project? I had a good 9V case, but took it out when I decided to move to 12V. Currently have a crappy looking 8-cell case without cover, and am seeking something more professional looking. May go back to the 9V (6-cell) case w/cover. Or just live with the crappy one until something better comes along.
>
> If anyone knows where I can find an 8-cell AA battery case w/cover, I'm all ears.
>
> Thanks,
>
> Dave
>

Put the crappy looking holder in plastic freezer box or something similar. I have one in a small case that came with an assortment of nuts and bolts. It opens from both sides. Battery pack on one side, camera stuff on the other.

Jimmie

From 2812674859339210968
X-Google-Thread: fc2a5,654384f37e30a915
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1191317606.379971.49740@g4g2000hsf.googlegroups.com>
Subject: Re: DDS VFO with AD9850 / AD9851 and PIC16F877A
Date: Mon, 22 Oct 2007 12:54:16 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 23
Message-ID: <471cd5b4$0$9628$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 71.68.80.78
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:1280

<pbshaji@gmail.com> wrote in message
news:1191317606.379971.49740@g4g2000hsf.googlegroups.com...

> Hi
> I Have successfully completed a DDS with the following facilities. It
> uses Mcrocontroller PIC16F877A and AD 9850/9851 DDS chip. The main
> facility in this DDS VFO is any settings including chip type and DDS
> clock can be changed even after programming the Microcontroller CHIP.
> Please click on the link below for more details.
>
> http://hamradioindia.org/forums/viewtopic.php?=&p=2428
>

I want to build something like this but without the PIC interface. Instead I want to control it directly from a printer port. I am looking for examples of software that can talk to DDS chips in this manner. As a matter of fact I plan on building the device so that the whole thing will fasten to the printer port or possible mounted internal to the PC. Any help would be greatly appreciated.

Jimmie

```
From -1764621003423914098
X-Google-Thread: fc2a5,5e0159945cee1cd
X-Google-Thread: 112d1e,5e0159945cee1cd
X-Google-Attributes: gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 22 Oct 2007 12:22:14 -0500
From: "Tam/WB2TT" <t-tammaru@c0mca$t.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <1192951624.453574.251130@q3g2000prf.googlegroups.com>
Subject: Re: TEA5757 radio design
Date: Mon, 22 Oct 2007 13:22:16 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <L5udnY5Pwe_bQYHanZ2dnUVZ_jmdnZ2d@comcast.com>
Lines: 43
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.248.189.66
X-Trace: sv3-
q1dux1Sec4f09wrOaHZ6sCX+FY4Qkkky+SOn4EIzojQbsa+rdorg+IRroKI4UXhsUQQ9gp3x4a8B6Qa!
LEiE1HPvaFyy3idMLYvsiPogDI+shybpKUOcFHCTu1iD2xBe0UnG7COxKsvNKcT4ZM+juw1kCzO2!
ayy+wRk3C8FcI9uhGrJYv+BCi7nwRg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1281
sci.electronics.design:49009
```

<michael.jh.ng@gmail.com> wrote in message
news:1192951624.453574.251130@q3g2000prf.googlegroups.com...

> Hello,
>
> I've been "designing" a Philips TEA5757-based radio by fitting readily
> available components (i.e. from Digikey or Mouser) into the outdated
> application circuit. I'm currently stuck on the FM front-end tank
> circuit; I'm not quite sure I understand how it's done in the
> application diagram (page 27 of the TEA5757 datasheet). By my
> calculations, it shouldn't work.
>
> The tank consists of a dual varactor (BB804), a 10 pF trimmer, and a
> RF coil that I cannot find the specs for (Toko MC117 E523FN-2000242).
> The schematic says the coil has 38 pF capacitance, and from comparison
> with current Toko coils and googling I'm guessing that it's an
> unshielded coil with a Q > 100 and an inductance < 100 nH. From the

> BB804 datasheet, each individual varactor has an effective range of
> 20-60 pF (generous assumption given 12V supply), so the series
> combination results in 10-30 pF.
>
> Altogether, the capacitance range is 48 to 68 pF, and 68/48 = 1.42. We
> need (108/88)^2 = 1.5 to tune the FM radio band. Stray capacitance and
> the trimmer don't help. I doubt Philips would provide a bum
> application diagram, so I must be missing something.
>
> Thanks,
> Mike
>
> http://www.nxp.com/acrobat_download/datasheets/TEA5757_5759_3.pdf
> http://www.nxp.com/acrobat_download/datasheets/BB804_3.pdf
>

For L in uH and C in PF, the LC ratio at 88 MHz is 3.27. The LC ratio at 108 is 2.17. If Cmax - Cmin is 10 PF, then L= (3.27 - 2.17)/10 = .11 uh. That means Cmax is 3.27/.11=29.7 PF and Cmin=2.17/.11=19.7PF. Sanity check:
Cmax - Cmin = 29.7 - 19.7 = 10 PF; qed.

If they say a 100 nH inductor has a capacitance of 38 PF, that is a garbage statement.

Tam

From -2854794918104530541
X-Google-Thread: fc2a5,be44564c6c699725
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 22 Oct 2007 13:37:44 -0500
Date: Mon, 22 Oct 2007 11:40:51 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 811 home brew
References: <1192687512.632985.164050@e9g2000prf.googlegroups.com>
In-Reply-To: <1192687512.632985.164050@e9g2000prf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <94GdndM6H8tlcIHanZ2dneKdnZydnZ2d@web-ster.com>
Lines: 29
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-jVhgnj7glu4OKVOh5S+LDjqSIQIEE7JbgXmmTsv9qzseGtH0T4rWgWzDbOesPL+j2weaXuAHWLK+iu0!jvE43SbDJihWryz5eBbBcMYr2nxELAx7Z0RVNiPuBKAuLYcURal3mLJSptG6zZtNa6S7rCdzzO/a!

```
CiSGUcsm6uH/yWh+
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1282

pinball_wizzard_01 wrote:
> I've been playing around with tube equipment since I was 17. I'm now
> 21 and building an old school transmitter. I'm running two 811 push
> pull tube system, and the power supple is a ver impresive two 866 in
> parallel system.
>
> I'm hoping to have it finished by the spring, I have the power supply
> finished and I look forward to starting the transmitter
>
Pictures?  If you have a web site, or if you can post to one of the
public picture sites, that would be very cool.

I'm twice your age and haven't gotten around to building a tube
transmitter yet, although I've rehabilitated some SSB tube gear and used
it on the air.  I hope to make something from scratch before I keel
over, but it may have to wait for retirement, or at least for the kids
to get off to college.

Good luck to you!

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html


From 7140276372717270397
X-Google-Thread: fc2a5,654384f37e30a915
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!newsfeed.esat.net!
feeder.news.heanet.ie!news.indigo.ie!not-for-mail
From: Eamon Skelton <Xnospam@oceanfree.net>
Subject: Re: DDS VFO with AD9850 / AD9851 and PIC16F877A
Newsgroups: rec.radio.amateur.homebrew
References: <1191317606.379971.49740@g4g2000hsf.googlegroups.com>
     <471cd5b4$0$9628$4c368faf@roadrunner.com>
User-Agent: pan 0.119 (Karma Hunters)
```

```
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 23
Message-ID: <BP6Ti.22755$j7.432370@news.indigo.ie>
Date: Mon, 22 Oct 2007 19:26:25 GMT
NNTP-Posting-Host: 83.70.109.0
X-Complaints-To: abuse@eircom.net
X-Trace: news.indigo.ie 1193081185 83.70.109.0 (Mon, 22 Oct 2007 20:26:25 BST)
NNTP-Posting-Date: Mon, 22 Oct 2007 20:26:25 BST
Organization: Eircom.Net http://www.eircom.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:1283

On Mon, 22 Oct 2007 12:54:16 -0400, Jimmie D wrote:

> <pbshaji@gmail.com> wrote in message

> I want to build something like this but without the PIC interface. Instead I
> want to control it directly from a printer port. I am looking for examples
> of software that can talk to DDS chips in this manner. As a matter of fact I
> plan on building the device so that the whole thing will fasten to the
> printer port or possible mounted internal to the PC. Any help would be
> greatly appreciated.
>
>
> Jimmie

See the AD9835 data-sheet and this Windows program
from AD.
http://tinyurl.com/3ynl3u

73, Ed. EI9GQ.

--
Remove 'X' to reply by e-mail
Linux 2.6.18


From 5776232872473785728
X-Google-Thread: fc2a5,654384f37e30a915
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References:
<1191317606.379971.49740@g4g2000hsf.googlegroups.com><471cd5b4$0$9628$4c368faf@roa
drunner.com> <BP6Ti.22755$j7.432370@news.indigo.ie>
Subject: Re: DDS VFO with AD9850 / AD9851 and PIC16F877A
Date: Mon, 22 Oct 2007 15:57:01 -0400
X-Priority: 3
```

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 29
Message-ID: <471d0087$0$32555$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 71.68.80.78
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:1284

"Eamon Skelton" <Xnospam@oceanfree.net> wrote in message
news:BP6Ti.22755$j7.432370@news.indigo.ie...
> On Mon, 22 Oct 2007 12:54:16 -0400, Jimmie D wrote:
>
>> <pbshaji@gmail.com> wrote in message
>
>> I want to build something like this but without the PIC interface.
>> Instead I
>> want to control it directly from a printer port. I am looking for
>> examples
>> of software that can talk to DDS chips in this manner. As a matter of
>> fact I
>> plan on building the device so that the whole thing will fasten to the
>> printer port or possible mounted internal to the PC. Any help would be
>> greatly appreciated.
>>
>>
>> Jimmie
>
> See the AD9835 data-sheet and this Windows program
> from AD.
> http://tinyurl.com/3ynl3u

Thanks but by "example of software" I meant source code so I can learn how
to write the progam I need to control it so the controls may look like a
transceiver or a signal generator.

From 3710906592096983782
X-Google-Thread: fc2a5,90af4c134c0a64d4
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 22 Oct 2007 15:33:13 -0500
Date: Mon, 22 Oct 2007 21:33:36 +0100
From: charlie <wehatespam@wymsey.co.uk>
User-Agent: Thunderbird 1.5.0.12 (X11/20060911)

MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Instrument Case For Transceiver
References: <auqdnb24quGF72jbRVnygQA@pipex.net> <YrCdnfZ9-aGE6mjbnZ2dnUVZ_g2dnZ2d@comcast.com> <-KGdnSASN8MhXGvbnZ2dnUVZ8s-qnZ2d@pipex.net> <471c9c3a$0$9592$4c368faf@roadrunner.com>
In-Reply-To: <471c9c3a$0$9592$4c368faf@roadrunner.com>
X-Enigmail-Version: 0.95.2
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-ID: <woidnSBXb5GUlIDanZ2dnUVZ8v2vnZ2d@pipex.net>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.213.50
X-Trace: sv3-vUxMCP3eoYv9s9jnrIw6URLuMPK9N0YGkSdXqugcTODvFe51va1SWl3qezVZK+9ufGdYClVOlpi2n+g!xKjqxQrSOO6KpH+G46N2VjUORdSYRMLrTNFuy/bhgedn/gbDj9JVn37TPoO/nQ7iSI83V9v35897!3Ot/oUpCgSQdy61rE/GSUVzkNQ==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1285

Jimmie D wrote:

>
> Whenever I build something like this I often put it in a fairly oversized
> case to leave room for future mods and add-ons. Old instrument cases are a
> favorite.
>
>
> Jimmie
>
>

Jimmie,

It's a good point as I bet I'll coming up with mods. This little beast is on a 5.5 x 3.5 inch PCB and I'll have more than twice that area to play with in the case I've decided on.

Charlie.

--
M0WYM
www.radiowymsey.org

From 3290779595838432720

X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com> <qprjr4-ogq.ln1@radagast.org> <1189601376.355054.281070@57g2000hsv.googlegroups.com> <1189635965.672121.110550@50g2000hsm.googlegroups.com>
Subject: Re: HF Amplifier
Date: Mon, 22 Oct 2007 17:26:04 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 45
Message-ID: <471d15ad$0$25637$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:1286

<jgboyles@aol.com> wrote in message
news:1189635965.672121.110550@50g2000hsm.googlegroups.com...
> On Sep 12, 7:49?am, Harry7 <cpa...@gmail.com> wrote:
>> The low pass filters on the Communications Concepts site are rated for
>> a maximum power of 300 watts. Where can I find low pass filters rated
>> for 600 watts (or more)?
>
>
> I built the EB104, used it on Field Day driving it with an FT-817 at 5
> watts pep out, getting 500-600 watts out of the Amp. Powered the
> whole thing with a Toshiba 1000 watt generator. Worked great.
>
> The low pass filters were right out of the ARRL Handbook. Did not
> check with a Spectrum analyzer, was more concerned with providing a 50
> ohm in/out Z. Used 500V mica caps and either air or T50 or larger
> torroids for inductors. Used a ceramic rotary switch to change bands.
>
> If you build the EB104, make sure you understand the phasing and
> connections of the various transformers on the board. Use copper heat
> spreader, heat sinks, and cooling fans. You have to have a method of
> T/R switching. Be sure you understand how to set the bias on each of
> the 4 MRF150's. You need a power supply capable of 50 volts @ 20
> AMPS. The least expensive I have found is a SMPS for about $300. The
> RFI was not a problem from this particular unit. The commercial
> versions of the EB104 reduce power thru the ALC if a serious mismatch
> occurs. I did not bother with this, but you might consider.
>
> The MRF150's are about $300 for a set of matched pairs. If you are

```
> not careful you will let the smoke out of the 150's.  BTDT.
>
> Good Luck,
> Gary N4AST
>
>

I used a CB amp on the ham bands after building a filter that was nothing
more than a PI-net impedance matching tuner. Being a tech plus at the time I
only used it on 10M and the filter/tuner was only designed for 10M. Output
was very clean but a lot of this was also due to proper biasing of the amp.


Jimmie




From -3603913492812980009
X-Google-Thread: fc2a5,be44564c6c699725
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1192687512.632985.164050@e9g2000prf.googlegroups.com>
Subject: Re: 811 home brew
Date: Mon, 22 Oct 2007 17:36:55 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 20
Message-ID: <471d1940$0$28834$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 71.68.80.78
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:1287


"pinball_wizzard_01" <pinball_wizzard_01@hotmail.com> wrote in message
news:1192687512.632985.164050@e9g2000prf.googlegroups.com...
> I've been playing around with tube equipment since I was 17. I'm now
> 21 and building an old school transmitter. I'm running two 811 push
> pull tube system, and the power supple is a ver impresive two 866 in
> parallel system.
>
> I'm hoping to have it finished by the spring, I have the power supply
> finished and I look forward to starting the transmitter
>
```

If you really want it to look impressive build it on some old telco open frame racks. I built my first stereo amp like this. Some people were afraid to enter my bedroom and rightly so. A lot of the equipment had plate caps exposed.

Jimmie

```
From -1864924089122398787
X-Google-Thread: fc2a5,5e0159945cee1cd
X-Google-Thread: 112d1e,5e0159945cee1cd
X-Google-Attributes: gidfc2a5,gid112d1e,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr14.news.prodigy.net.POSTED!78bb86ef!not-for-
mail
From: JosephKK <joseph_barrett@sbcglobal.net>
Subject: Re: TEA5757 radio design
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Followup-To: rec.radio.amateur.homebrew
References: <1192951624.453574.251130@q3g2000prf.googlegroups.com>
<L5udnY5Pwe_bQYHanZ2dnUVZ_jmdnZ2d@comcast.com>
Lines: 47
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <ShfTi.11952$4V6.11230@newssvr14.news.prodigy.net>
NNTP-Posting-Host: 71.128.110.241
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr14.news.prodigy.net 1193115890 ST000 71.128.110.241 (Tue, 23 Oct
2007 01:04:50 EDT)
NNTP-Posting-Date: Tue, 23 Oct 2007 01:04:50 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
FKPO@MC@@S@GRQD[KBOT_I\@TZXBAGXOVP\@NDEMCH]VGBIGFWMUCS_]^_]^HRWI[FCWJF^NB^[D_DSBR^
RC^QPFTFUCYRDIH@\FCQKBITUT@EP_[CAFHTC@GLDKZHBMGDXCJINMCA\]GG[RH\^MOM[\BK[NVPWKYAYI
POG@SK@ZA]DE[\AP]_DFU^T]A\VM
Date: Tue, 23 Oct 2007 05:04:50 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1288
sci.electronics.design:49139
```

Tam/WB2TT t-tammaru@c0mca$t.net posted to sci.electronics.design:

>
> <michael.jh.ng@gmail.com> wrote in message
> news:1192951624.453574.251130@q3g2000prf.googlegroups.com...
>> Hello,
>>

>> I've been "designing" a Philips TEA5757-based radio by fitting
>> readily available components (i.e. from Digikey or Mouser) into the
>> outdated application circuit. I'm currently stuck on the FM
>> front-end tank circuit; I'm not quite sure I understand how it's
>> done in the application diagram (page 27 of the TEA5757 datasheet).
>> By my calculations, it shouldn't work.
>>
>> The tank consists of a dual varactor (BB804), a 10 pF trimmer, and
>> a RF coil that I cannot find the specs for (Toko MC117
>> E523FN-2000242). The schematic says the coil has 38 pF capacitance,
>> and from comparison with current Toko coils and googling I'm
>> guessing that it's an unshielded coil with a Q > 100 and an
>> inductance < 100 nH. From the BB804 datasheet, each individual
>> varactor has an effective range of 20-60 pF (generous assumption
>> given 12V supply), so the series combination results in 10-30 pF.
>>
>> Altogether, the capacitance range is 48 to 68 pF, and 68/48 = 1.42.
>> We need (108/88)^2 = 1.5 to tune the FM radio band. Stray
>> capacitance and the trimmer don't help. I doubt Philips would
>> provide a bum application diagram, so I must be missing something.
>>
>> Thanks,
>> Mike
>>
>> http://www.nxp.com/acrobat_download/datasheets/TEA5757_5759_3.pdf
>> http://www.nxp.com/acrobat_download/datasheets/BB804_3.pdf
>>
> For L in uH and C in PF, the LC ratio at 88 MHz is 3.27. The LC
> ratio at 108 is 2.17. If Cmax - Cmin is 10 PF, then L= (3.27 -
> 2.17)/10 = .11 uh. That means Cmax is 3.27/.11=29.7 PF and
> Cmin=2.17/.11=19.7PF. Sanity check: Cmax - Cmin = 29.7 - 19.7 = 10
> PF; qed.
>
> If they say a 100 nH inductor has a capacitance of 38 PF, that is a
> garbage statement.
>
> Tam

Perhaps stated more strongly than necessary, see my post.

From -8848626197350670855
X-Google-Thread: fc2a5,5e0159945cee1cd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 23 Oct 2007 13:15:52 -0500
From: "Tam/WB2TT" <t-tammaru@c0mca$t.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1192951624.453574.251130@q3g2000prf.googlegroups.com>

```
<L5udnY5Pwe_bQYHanZ2dnUVZ_jmdnZ2d@comcast.com>
<ShfTi.11952$4V6.11230@newssvr14.news.prodigy.net>
Subject: Re: TEA5757 radio design
Date: Tue, 23 Oct 2007 14:15:56 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Message-ID: <f_2dnZjKQ6DFp4PanZ2dnUVZ_tCrnZ2d@comcast.com>
Lines: 59
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.248.189.66
X-Trace: sv3-
jDnrXmQXDWAo3VwtKW4JHjvAacm7wiYgftuu5VHiyaRvKxY42oLZdVhZNqXWgdKcmMx2Cs2i0oMCJjg!
A5DLY83MRh1RRR8vxfzXCPj1l+2trxSh1+s+yrhN9/9N04Cu/XVxjrpK/EuFeRwkPkMevaKknkcy!
FLJoe2u9B7KElF0DB4mhnFTWmCHF0A==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1289


"JosephKK" <joseph_barrett@sbcglobal.net> wrote in message
news:ShfTi.11952$4V6.11230@newssvr14.news.prodigy.net...
> Tam/WB2TT t-tammaru@c0mca$t.net posted to sci.electronics.design:
>
>>
>> <michael.jh.ng@gmail.com> wrote in message
>> news:1192951624.453574.251130@q3g2000prf.googlegroups.com...
>>> Hello,
>>>
>>> I've been "designing" a Philips TEA5757-based radio by fitting
>>> readily available components (i.e. from Digikey or Mouser) into the
>>> outdated application circuit. I'm currently stuck on the FM
>>> front-end tank circuit; I'm not quite sure I understand how it's
>>> done in the application diagram (page 27 of the TEA5757 datasheet).
>>> By my calculations, it shouldn't work.
>>>
>>> The tank consists of a dual varactor (BB804), a 10 pF trimmer, and
>>> a RF coil that I cannot find the specs for (Toko MC117
>>> E523FN-2000242). The schematic says the coil has 38 pF capacitance,
>>> and from comparison with current Toko coils and googling I'm
>>> guessing that it's an unshielded coil with a Q > 100 and an
>>> inductance < 100 nH. From the BB804 datasheet, each individual
>>> varactor has an effective range of 20-60 pF (generous assumption
>>> given 12V supply), so the series combination results in 10-30 pF.
>>>
>>> Altogether, the capacitance range is 48 to 68 pF, and 68/48 = 1.42.
>>> We need (108/88)^2 = 1.5 to tune the FM radio band. Stray
```

>>> capacitance and the trimmer don't help. I doubt Philips would
>>> provide a bum application diagram, so I must be missing something.
>>>
>>> Thanks,
>>> Mike
>>>
>>> http://www.nxp.com/acrobat_download/datasheets/TEA5757_5759_3.pdf
>>> http://www.nxp.com/acrobat_download/datasheets/BB804_3.pdf
>>>
>> For L in uH and C in PF, the LC ratio at 88 MHz is 3.27. The LC
>> ratio at 108 is 2.17. If Cmax - Cmin is 10 PF, then L= (3.27 -
>> 2.17)/10 = .11 uh. That means Cmax is 3.27/.11=29.7 PF and
>> Cmin=2.17/.11=19.7PF. Sanity check: Cmax - Cmin = 29.7 - 19.7 = 10
>> PF; qed.
>>
>> If they say a 100 nH inductor has a capacitance of 38 PF, that is a
>> garbage statement.
>>
>> Tam
>
> Perhaps stated more strongly than necessary, see my post.
>
You are right. Actually , I did think the same as you did, but 100 nH and 38
PF works out to about 82 MHz, which is overkill. You only need to go as low
as about 87 if you want to include CH6 audio. He will want to use a varactor
with about a 3:1 capacitance ratio to allow for stray and fixed capacitance.
In my example a (5 - 15) PF should be doable.

Tam

From -7830502317353306436
X-Google-Thread: fc2a5,551366c5f2e61b96
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!sn-xt-sjc-04!sn-xt-sjc-10!sn-xt-sjc-08!
sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Koltner" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ATTN Homebrewers!
Date: Tue, 23 Oct 2007 11:40:57 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13hsg1qjj784k55@corp.supernews.com>
References: <25379-471A7825-200@storefull-3116.bay.webtv.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-Complaints-To: abuse@supernews.com
Lines: 7

Xref: g2news2.google.com rec.radio.amateur.homebrew:1290

Not to put too much of a damper on this, but I've looked into it and it's clear that there's no trivial "off the shelf" solution that you can point to and claim your million dollars. :-) This prize isn't going to be won by someone tinkering in their basement -- it'll end up going to, e.g., some researchers at a university with good connections to industry.

From 6893429857580367999
X-Google-Thread: fc2a5,afe938a54d430aec,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q3g2000prf.googlegroups.com!not-for-mail
From: francesco.messineo@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: FT-707 picture
Date: Tue, 23 Oct 2007 12:59:39 -0700
Organization: http://groups.google.com
Lines: 17
Message-ID: <1193169579.793639.258500@q3g2000prf.googlegroups.com>
NNTP-Posting-Host: 62.10.64.80
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1193169583 26646 127.0.0.1 (23 Oct 2007 19:59:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 23 Oct 2007 19:59:43 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.12) Gecko/20060216 Debian/1.7.12-1.1ubuntu2,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q3g2000prf.googlegroups.com; posting-host=62.10.64.80;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1291

Hello,

this is probably a bit OT here (any better group?). I'd need a picture of the RF-Unit of a FT-707 (lot 11 or newer). The unit should be PB-2201 (older sets have another board) and is located under the top cover. The unit can be flipped by removing 5 screws and without disconnecting any cable. I'm trying to determine if a mod I found there is from the previous owner or from Yaesu itself and also trying to fix the rig which has an exceptionally large set of faults. The rig should have an unmodified (and never modified if possible) 40m band (7 to 7.5 MHz).
The email address is valid.

Thanks in advance

Francesco IZ8DWF

From 5744921842488004109
X-Google-Thread: fc2a5,551366c5f2e61b96
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q3g2000prf.googlegroups.com!not-for-mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ATTN Homebrewers!
Date: Tue, 23 Oct 2007 13:08:32 -0700
Organization: http://groups.google.com
Lines: 26
Message-ID: <1193170112.901610.308460@q3g2000prf.googlegroups.com>
References: <25379-471A7825-200@storefull-3116.bay.webtv.net>
   <13hsg1qjj784k55@corp.supernews.com>
NNTP-Posting-Host: 97.84.159.244
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1193170116 30168 127.0.0.1 (23 Oct 2007 20:08:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 23 Oct 2007 20:08:36 +0000 (UTC)
In-Reply-To: <13hsg1qjj784k55@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; IEMB3; IEMB3),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q3g2000prf.googlegroups.com; posting-host=97.84.159.244;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1292

On Oct 23, 2:40 pm, "Joel Koltner" <JKolstad71HatesS...@yahoo.com>
wrote:
> Not to put too much of a damper on this, but I've looked into it and it's
> clear that there's no trivial "off the shelf" solution that you can point to
> and claim your million dollars. :-) This prize isn't going to be won by
> someone tinkering in their basement -- it'll end up going to, e.g., some
> researchers at a university with good connections to industry.

Putting 2KWH of controlled energy into a <10# package is going to be a
real trick... Not doable with todays electrical containers - no matter
how fast that damn rabbit beats the drum...
Off the top of my head (along with flies, fleas, and dandruff) I
predict it will not be a rechargeable battery...
It will either be a version of a fuel cell with compressed hydrogen as
the fuel..
Or it will be a version of a primary battery with an erodeable anode -
for example an Fe-Cu cell with vinegar electrolyte, but likely using
lighter metals - Lithium comes to mind, of course...
When I first read this I made a mental note to look up and calculate

how many gms of copper would have to be sacrificed in an Fe-Cu cell to generate 2KWH, but life intervened and I haven't gotten back to that (and likely won't) so I throw it out for thinking by those with a bit of chemistry background...

denny / k8do

```
From -7542774544529516665
X-Google-Thread: fc2a5,582592e1fb51662b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr22.news.prodigy.net.POSTED!a44c331b!not-for-
mail
From: "Nelson Ogden" <nelsonogden+usenet@gmail.com>
Subject: Re: Long Range Wireless Network
Newsgroups: rec.radio.amateur.homebrew
References: <1192000584.504288.137930@k79g2000hse.googlegroups.com>
Lines: 2
Message-ID: <tLsTi.474$%13.0@newssvr22.news.prodigy.net>
NNTP-Posting-Host: 75.41.29.79
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr22.news.prodigy.net 1193171033 ST000 75.41.29.79 (Tue, 23 Oct 2007
16:23:53 EDT)
NNTP-Posting-Date: Tue, 23 Oct 2007 16:23:53 EDT
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
Q[R_PJON[JWKR_TX@ZHJOT@@[JT@QDDMEPWXODMMHXMTWA]EPUUEAE[YETZPIWWI[FCIZA^NBFXZ_D[BFN
TCNVPDTNTKHWXKB@X^B_OCJLPZ@ET_O[G\XSG@E\G[ZKVLBL^CJINM@I_KVIOR\T_M_AW_M[_BWU_HFA_]
@A_A^SGFAUDE_DFTMQPFWVW[QPJN
Date: Tue, 23 Oct 2007 16:24:00 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:1293
```

An ISP in my area has a rather large wireless network established, probably 30 miles from main office to my end of their network. I am at the far end of the network, about 12 access points "deep", meaning my traffic hops through 12 bridges-access points (repeaters) before it reaches the ISP's backbone. It works fairly well for internet browsing, better than I would have thought, but I've never tried internet telephony or video conferencing. That ISP is using 802.11b radios throughout the network, so the network certainly can't handle a lot of internet traffic, but it works.

```
From 9059586290027582232
X-Google-Thread: fc2a5,afe938a54d430aec
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.germany.com!news.belwue.de!
newsfeed.arcor.de!newsspool4.arcor-online.net!news.arcor.de.POSTED!not-for-mail
```

From: "Ralf Ballis" <rb.news@arcor.de>
Newsgroups: rec.radio.amateur.homebrew
References: <1193169579.793639.258500@q3g2000prf.googlegroups.com>
Subject: Re: FT-707 picture
Date: Tue, 23 Oct 2007 22:42:13 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
Lines: 23
Message-ID: <471e5ca9$0$16665$9b4e6d93@newsspool3.arcor-online.net>
Organization: Arcor
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NNTP-Posting-Host: 461bc9de.newsspool3.arcor-online.net
X-Trace:
DXC=kiQ[[goS2EKlU`@c^jLCbJMcF=Q^Z^V3H4Fo<]lROoRA4nDHegD_]RE8UPP`V8Cl5M[6fPGO]?
5UCA=Il^d1:W6L_TQAUae:<3A
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:1294

For pictures take a look at:

www.rigpix.com

For modification and pictures to at:

www.mods.dk

73

Ralf, DL2MRB

From -5451413797682263975
X-Google-Thread: fc2a5,654384f37e30a915
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail

NNTP-Posting-Date: Tue, 23 Oct 2007 21:29:11 -0500
From: "Jim" <kill-spam@no-spam.org>
Newsgroups: rec.radio.amateur.homebrew
References: <1191317606.379971.49740@g4g2000hsf.googlegroups.com>
<471cd5b4$0$9628$4c368faf@roadrunner.com>
Subject: Re: DDS VFO with AD9850 / AD9851 and PIC16F877A
Date: Tue, 23 Oct 2007 19:29:10 -0700
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 000783-1, 10/22/2007), Outbound message
X-Antivirus-Status: Clean
Message-ID: <veWdnSIfKLZqMIPanZ2dnUVZ_hisnZ2d@comcast.com>
Lines: 40
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.181.200.74
X-Trace: sv3-
USI8z7HNpvbRVUQbqBOPFxY4Jh7BlSmqcPOohEZUYH+aYmz3x7jg7/9phxySKOstTbZNzQwipQ+I0NE!
ex34wihb6k2rFPRSJ9uXw6WG7NnIeXHMfryz3zOBqcDm5sAj3aTEUWYIkGcweD4v9bS/ctr5r/wP!s/
yiUn5p+Bw/Al48NWOAmn0ttMJQGQ==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1295

On Mon, 22 Oct 2007 12:54:16 -0400, Jimmie D wrote:

> I want to build something like this but without the PIC interface. Instead
> I want to control it directly from a printer port. I am looking for
> examples of software that can talk to DDS chips in this manner. As a
> matter of fact I plan on building the device so that the whole thing will
> fasten to the printer port or possible mounted internal to the PC. Any
> help would be greatly appreciated.
>
>
> Jimmie

The general problem is going to be that WINXP, 2000, Vista, and NT make it difficult to use the printer port pins directly. Not impossible, but certainly a problem.

You could use something like a PIC877 or some such to act as a serial input which would then allow using Rs232 to communicate from the PC to a radio.

Alternatively, use WIN98 and the printer pins are "up for grabs" with fairly simple PC programs.

N6BIU

--

19:30 Pacific Time Zone
Oct 23 2007

International Time
02:30 UTC
24.10.2007

From -2523609032941557505
X-Google-Thread: fc2a5,654384f37e30a915
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o3g2000hsb.googlegroups.com!not-for-mail
From: "pbshaji@gmail.com" <pbshaji@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS VFO with AD9850 / AD9851 and PIC16F877A
Date: Sun, 07 Oct 2007 10:41:31 -0700
Organization: http://groups.google.com
Lines: 129
Message-ID: <1191778891.686186.250620@o3g2000hsb.googlegroups.com>
References: <1191317606.379971.49740@g4g2000hsf.googlegroups.com>
   <kKedncDMJKHcVJranZ2dnUVZ_h2pnZ2d@comcast.com>
   <1191721658.453303.126810@o3g2000hsb.googlegroups.com>
NNTP-Posting-Host: 61.1.252.154
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1191778891 16033 127.0.0.1 (7 Oct 2007 17:41:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 7 Oct 2007 17:41:31 +0000 (UTC)
In-Reply-To: <1191721658.453303.126810@o3g2000hsb.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o3g2000hsb.googlegroups.com; posting-host=61.1.252.154;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1196

On Oct 6, 6:47 pm, Tom <holden_fam...@sympatico.ca> wrote:
> On Oct 6, 1:43 pm, "gb" <w9nogbs...@arrlspamno.net> wrote:
>

>
>
> > <pbsh...@gmail.com> wrote in message
>
> >news:1191317606.379971.49740@g4g2000hsf.googlegroups.com...
>
> > > Hi
> > > I Have successfully completed a DDS with the following facilities. It
> > > uses Mcrocontroller PIC16F877A and AD 9850/9851 DDS chip. The main
> > > facility in this DDS VFO is any settings including chip type and DDS
> > > clock can be changed even after programming the Microcontroller CHIP.
> > > Please click on the link below for more details.
>
> > >http://hamradioindia.org/forums/viewtopic.php?=&p=2428
>
> > > Here is some details.
>
> > > 1) DUAL VFO, that is VFO A, VFO B and A=B facilities.
>
> > > 2) UP to 50 RX frequency storage on MEMORY.
>
> > > 3) The Software allows 2 modes of operation,
>
> > > a) VFO MODE, where the encoder is used to adjust the frequency.
>
> > > While in this mode, VFO A or B is displayed on the top line of the
> > > LCD.
>
> > > b) MEMORY MODE, where the encoder is used to select a previously saved
> > > frequency. While in this mode, MEM is displayed on the top line of the
> > > LCD.
>
> > > 4) KEYPAD Frequency entry and additional 7 Press buttons for other
> > > functions.
>
> > > The remaining Functions included in the KEYPAD itself.
>
> > > 5) UP/DOWN fast search in three different steps using KEYPAD which is
> > > user selective.
>
> > > 6) SCAN and quick UP/DOWN search in three different steps with auto
> > > Repeat on PTT.
>
> > > 7) Frequencies are entered in MHz, the * is used to enter a decimal
> > > point,
>
> > > and the # is used to ENTER the completed frequency.
>
> > > If the first digit entered is the #, the number entered will be
> > > negative.
>
> > > 8) S- Meter reading from S0 to S9+40db in logarithmic db range.
>

> > > 9) Variable rate tuning to use the cheep mechanical encoder.
>
> > > 10) Step size can be changed from 1Hz to MHz range.
>
> > > 11) RIT facility.
>
> > > 12) VFO copy to MEMORY and from MEMORY to any VFO (A/B) facility.
>
> > > 13) AM/LSB/USB/CW modes Operation with PIC pin outputs for switching.
>
> > > 14) Allows -Ve and +Ve IF OFFESTS. Offset frequency = any value from
> > > min RX frequency to Max 999MHz
>
> > > 15) 10 RX BANDPASS filter selection for RX coverage from 1.5MHz to
> > > 30MHz. Usefull to set up an All band RX.
>
> > > 16) BAND PASS filter switching selectivity 1Hz and 1ms switching
> > > speed, which allows cross band Operation.
>
> > > 17) CW OFFSET adds to TX Frequency when transmitting thus avoids
> > > modulated CW.
>
> > > 18) Save to MEMORY and Copy from MEMORY functions.
>
> > > 19) Scan VFO frequency and Scan MEMORY facility
>
> > > 20) Time out function for ignoring any wrong entry in system settings.
>
> > > 21) Auto repeat function for respective keys.
>
> > > 22) Display Multiplier Option to use with VHF rigs
>
> > > 23) Menu screen allows user to change any settings in the setup
> > > screen.
>
> > > 24) All settings can be changed in the SETUP screen at any time even
> > > when the DDS is in working mode including DDS chip type and Reference
> > > Clock.
>
> > > 25) LBS/USB/CW Crystal switching (USB is treated as CW).
>
> > > 26) CW OFFSET adds to TX Frequency when transmitting thus avoids
> > > modulated CW.
>
> > > I will be giving the software FREE along with the PCB. Interested
> > > homebrewers may Email me for Circuit and other details.
>
> > > I can send the PCB anywhere in the world using Registered INDIA POST.
>
> > > SHAJI.P.BVU3WIJ
> > > KOZHIKODE, INDIA.
> > > E mail: vu3...@hamradio.in and pbsh...@gmail.com (mark copy in both id)
>

> > Are you still providing the PCB and PIC chip w/source (as mentioned in
> > April) ??
>
> > Greg
> > w9gb- Hide quoted text -
>
> > - Show quoted text -
>
> The links seem to be broken. I googled and found him posting recently
> athttp://www.hamradio.in/forums/search.php?search_author=vu3wij.
>
> Tom VE3MEO

Hi,

Thanks for the reply. I have the PCB and PIC. here is the link
http://www.hamradio.in/forums/viewtopic.php?t=857 have a look.

SHAJI VU3WIJ

From 7795586826176679799
X-Google-Thread: fc2a5,8369463be39ccb40
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Oct 2007 05:08:04 -0500
Date: Mon, 08 Oct 2007 23:08:07 +1300
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820 problems.
References: <46f25b95$1@clear.net.nz>
<1190978129.715936.210920@19g2000hsx.googlegroups.com>
In-Reply-To: <1190978129.715936.210920@19g2000hsx.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000779-0, 08/10/2007), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-28-81.dsl.telstraclear.net
Message-ID: <470a0181@clear.net.nz>
X-Original-Trace: 8 Oct 2007 23:08:01 +1300, 121-72-28-81.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints abuse@clear.net.nz
Lines: 49
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6

X-AuthenticatedUsername: news10531
X-Trace: sv3-
NwUdDuIeNQai3BPRwBc2kc9XRzwy34vFbz8xaGxIiQFL6pp3ampyUGacMK1BHtM2I6IM8zsI3reKnZb!
ZokoI9f/dmNfJHiJ237iiTSV92BxIxePxegbIElh5soYLgLD3P1meYo=
X-Complaints-To: abuse@clear.net.nz
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1197

n.dilipkumar09@gmail.com wrote:
> On Sep 20, 4:38 pm, cliff wright <c.c.wri...@paradise.net.nz> wrote:
>
>>Hi guys!
>>Am still going over the old TS-820 and found another problem re the
>>meter. It is important when replacing the meter to check the condition
>>of the multiplying resistors on the underchassis "HT" board and adjust
>>to suit the actual sensitivity of the meter.
>>Mine was reading 730 volts off load for final anode voltage but my
>>trusty old Avometer tells me that it was actually 1,040 volts.
>>Now this is WAY above the recommended anode voltage for even a 6146B
>>but since the tansformer secondary is 800 volts its probably correct.
>>I've now got the voltage reading correctly on the meter, but I'm now
>>very convinced that the reason for flashover in some 6146's is simply
>>excessive HT voltage. The finals are running in very dangerous
>>territory. Just a bit of SWR then Poof!!!
>>I'm now considering modifying the case and using a TT21 as a final.
>>These can stand the voltage with ease, are very easy to neutralise
>>and can give a good 65% efficiency in AB1 up to 30 Mhz. Will give me
>>around 80 watts out I reckon.
>>Just that my final box will be a bit taller and the old case will need a
>>bit of chopping about.
>>But then its an old rig and it might as well work properly, even
>>modified. Anyone elese tried major final tube changes in the Kenwood
>>hybrids?
>>Regards Cliff Wright ZL1BDA ex G3NIA.
>
>
> i'm considering to go for the same do u hav any ckt idea as well as
> documents to create my own as of now i quiet new to this field dear
> cliff wright.....
>
Just an update for those who might be interested.
It turns out that my reservations about valve (tube) Testers were proved
to be correct.
I used a single 6883b in the final amp and got the following very
interesting results.
Tube 1 for a dc input of 84 watts the RF output was a miserable 25 watts
measured with a calibrated Marconi RF power meter.
Tube 2 for a Dc input of 63 watts the RF power was the same, vis 25 watts.
25 Watts is the maximum power rating of the Marconi test equipment.

So it is very obvious that damaged or low emission finals can have the effect of drastically reducing the efficiency of the Power stage. Fortunately I hope to source some more 6883B's or 6146B's this weekend.

So if your transmitter gets "feeble" but the Dc input remains the same suspect your finals. Especially if it tends to red hot anodes!!!
&3's Cliff Wright ZL1BDA ex G3NIA.

```
From 5050125794793412876
X-Google-Thread: fc2a5,8369463be39ccb40
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out04a.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!uns-
out.usenetserver.com!news.usenetserver.com!pc03.usenetserver.com!EVERESTKC.NET-
a2kHrUvQQWlmc!not-for-mail
Date: Mon, 08 Oct 2007 23:08:07 +1300
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820 problems.
References: <46f25b95$1@clear.net.nz>
<1190978129.715936.210920@19g2000hsx.googlegroups.com>
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X-Antivirus: avast! (VPS 000779-0, 08/10/2007), Outbound message
X-Antivirus-Status: Clean
X-Original-Message-ID: <470a0181@clear.net.nz>
X-Original-Trace: 8 Oct 2007 23:08:01 +1300, 121-72-28-81.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
X-Usenet-Provider: http://www.giganews.com
X-AuthenticatedUsername: news10531
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Postfilter: 1.3.35
Message-ID: <395c7$470a02b0$4aded8bf$11278@EVERESTKC.NET>
X-Complaints-To: abuse@usenetserver.com
Lines: 49
X-Trace: 395c7470a02b0ef7b7d1a11278
Xref: g2news2.google.com rec.radio.amateur.homebrew:1198
```

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From -6831668679022278052
X-Google-Thread: fc2a5,1ef195a8b7cb5c86,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r29g2000hsg.googlegroups.com!not-for-mail
From: stevenrobeson@yahoo.com
Newsgroups: rec.radio.amateur.homebrew

Subject: WANTED: DRAKE C-LINE KNOBS FOR REFURBISHING PROJECT
Date: Mon, 08 Oct 2007 12:04:31 -0700
Organization: http://groups.google.com
Lines: 15
Message-ID: <1191870271.820144.182030@r29g2000hsg.googlegroups.com>
NNTP-Posting-Host: 205.188.116.65
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1191870272 28625 127.0.0.1 (8 Oct 2007 19:04:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 8 Oct 2007 19:04:32 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-
dtc-ta03.proxy.aol.com[CDBC7003] (Prism/1.2.1), HTTP/1.1 cache-dtc-
ab01.proxy.aol.com[CDBC7441] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: r29g2000hsg.googlegroups.com; posting-host=205.188.116.65;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1199

Greetings:

I am in need of a set of Drake knobs for an R4C (complete set needed including the tuning dial) and (1) extra accessory knob for a T4XC (the "XTAL" position)

Please RSVP direct to "stevenrobeson@yahoo.com" with condition and asking price.

Thanks!

73

Steve, K4YZ

From -2269025229072316281
X-Google-Thread: 10c2ee,4d10b3dc582185f0,start
X-Google-Thread: fc8b1,4d10b3dc582185f0,start
X-Google-Thread: 1131b0,4d10b3dc582185f0,start
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X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr13.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,sci.electronics.repair,rec.

```
radio.amateur.homebrew
Subject: Heathkit CT-1 problem ?
Lines: 16
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <MPxOi.32078$eY.16787@newssvr13.news.prodigy.net>
NNTP-Posting-Host: 70.234.41.251
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr13.news.prodigy.net 1191881068 ST000 70.234.41.251 (Mon, 08 Oct
2007 18:04:28 EDT)
NNTP-Posting-Date: Mon, 08 Oct 2007 18:04:28 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
FKPO@MC@@S@ERQXXKZOX_RXAUSXB@DTMNHWB_EYLJZ]BGIEL_NTKAH_[JTXDX_KI\VB]JBVMS^YT_G[CZV
WAOS\DHFWEH]@KGXYHB\_CMDSFABP^J[AHHRKARLE_JDBLJ\XA[JRMEI]MGJSPB\Y]^KG\@S^@VQKI_Q[G
@@_ACSARASDEFLBJ]S\GFNTUAVBL
Date: Mon, 08 Oct 2007 22:04:28 GMT
Xref: g2news2.google.com rec.antiques.radio+phono:11359
rec.radio.amateur.boatanchors:1326 sci.electronics.repair:11521
rec.radio.amateur.homebrew:1200

I got one at swapmeet with a problem.  It works fine on the Short side
but on the Open side on check the eye stays open instead of being
closed.  The wiring and tube seem OK.  The schematic I have shows a 5mmf
cap across the osc coil but I don't see one and wonder if it was missing
from the factory because the parts list doesn't show a 5mmf cap.  I'm
guessing the coil came with both caps as an assembly or my unit is a
later one and they may have figured out a way to wind the coil where
they don't need it.  Anyone know?  Scoping the grid I can see a flash of
high freq. osc momentarily but that's switching in the Short side.
tnx

--

73
Hank WD5JFR




From 4292950527211998917
X-Google-Thread: 10c2ee,4d10b3dc582185f0
X-Google-Thread: fc8b1,4d10b3dc582185f0
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```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Oct 2007 18:17:54 -0500
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,sci.electronics.repair,rec.
radio.amateur.homebrew
References: <MPxOi.32078$eY.16787@newssvr13.news.prodigy.net>
Subject: Re: Heathkit CT-1 problem ?
Date: Mon, 8 Oct 2007 19:17:54 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <1YOdnb7fE7s_J5fanZ2dnUVZ_qKgnZ2d@comcast.com>
Lines: 36
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.199.254.204
X-Trace: sv3-
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RisFKT8jU90ntFetPZfDuZoG8OR/kYc=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.antiques.radio+phono:11368
rec.radio.amateur.boatanchors:1327 sci.electronics.repair:11522
rec.radio.amateur.homebrew:1201

"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in message
news:MPxOi.32078$eY.16787@newssvr13.news.prodigy.net...
>I got one at swapmeet with a problem. It works fine on the Short side but on
>the Open side on check the eye stays open instead of being closed. The wiring
>and tube seem OK. The schematic I have shows a 5mmf cap across the osc coil
>but I don't see one and wonder if it was missing from the factory because the
>parts list doesn't show a 5mmf cap. I'm guessing the coil came with both caps
>as an assembly or my unit is a later one and they may have figured out a way to
>wind the coil where they don't need it. Anyone know? Scoping the grid I can
>see a flash of high freq. osc momentarily but that's switching in the Short
>side.
> tnx
>
> --
>
> 73
> Hank WD5JFR

The manual I have for the CT-1 shows a 10 pf capacitor across the oscillator coil, however, it's not in the parts list either. The oscillator coil must have come from the factory assembled with a tuning capacitor that made the circuit oscillate at the correct frequency.
Do you have a complete manual that gives the circuit theory of operation? That section describes both open and short checks as well as normal operation. If not, I can send you a PDF of the manual.

Cheers!!!
--
Dave M
MasonDG44 at comcast dot net (Just substitute the appropriate characters in the address)

"In theory, there isn't any difference between theory and practice. In practice, there is." - Yogi Berra

From 8182860705067677667
X-Google-Thread: fc2a5,1ef195a8b7cb5c86
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Oct 2007 19:01:11 -0500
From: "gb" <w9nogbspam@arrlspamno.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1191870271.820144.182030@r29g2000hsg.googlegroups.com>
Subject: Re: WANTED: DRAKE C-LINE KNOBS FOR REFURBISHING PROJECT
Date: Mon, 8 Oct 2007 19:00:48 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3205
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3205
X-RFC2646: Format=Flowed; Original
Message-ID: <lqGdnSmaruxaWZfanZ2dneKdnZydnZ2d@comcast.com>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.14.244.109
X-Trace: sv3-v1mV0g9JVklC9P6UbbC7jQ5QeMKJwWHWruAbLAHOoo4vB3W4YcRWFJm86z/LE81ecz5ogRN6eJs1P+2!X1dm3rJK3Azj45jMtehHVp1Wqzl3fXZTV9J/zUNZSvcU/ytp5R0F29fnyzWNPYw77ZsqnDnZeQsk!P6ByBDsM/ZD6SaXGALKCppwLiwtM4g==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1202

<stevenrobeson@yahoo.com> wrote in message
news:1191870271.820144.182030@r29g2000hsg.googlegroups.com...

> Greetings:
>
>   I am in need of a set of Drake knobs for an R4C (complete set
> needed including the tuning dial) and (1) extra accessory knob for a
> T4XC (the "XTAL" position)
>   Please RSVP direct to "stevenrobeson@yahoo.com" with condition
> and asking price.
>   Thanks!
> 73
> Steve, K4YZ
>

Gentleman in Geneva, IL area has NOS of these knobs.
Usually posts auction on eBay ~ $35 for a set.

gb

```
From 4916792545472288468
X-Google-Thread: 10c2ee,4d10b3dc582185f0
X-Google-Thread: fc8b1,4d10b3dc582185f0
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X-Google-Thread: fc2a5,4d10b3dc582185f0
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Path: g2news2.google.com!news4.google.com!out03b.usenetserver.com!
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newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr13.news.prodigy.net.POSTED!c4667c2f!not-for-
mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,sci.electronics.repair,rec.
radio.amateur.homebrew
References: <MPxOi.32078$eY.16787@newssvr13.news.prodigy.net>
<1YOdnb7fE7s_J5fanZ2dnUVZ_qKgnZ2d@comcast.com>
Subject: Re: Heathkit CT-1 problem ?
Lines: 47
MIME-Version: 1.0
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X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
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X-Trace: newssvr13.news.prodigy.net 1191888189 ST000 70.234.41.251 (Mon, 08 Oct 2007 20:03:09 EDT)
NNTP-Posting-Date: Mon, 08 Oct 2007 20:03:09 EDT
Organization: SBC http://yahoo.sbc.com
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@C[AFKBBQS@E@DAZ]VDFUNTQQ]FN
Date: Tue, 09 Oct 2007 00:03:09 GMT
Xref: g2news2.google.com rec.antiques.radio+phono:11377
rec.radio.amateur.boatanchors:1328 sci.electronics.repair:11525
rec.radio.amateur.homebrew:1203

Dave
Thanks for the offer but I have a manual copy that seems to be god
enough..
I'm hoping some one who sees the post and has a CT-1 has the time to
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Right now I'm trying to recall what junkbox of my many might have one..
Hank
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news:1YOdnb7fE7s_J5fanZ2dnUVZ_qKgnZ2d@comcast.com...
> "Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in message
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>

```
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> In practice, there is."  - Yogi Berra
>



From -2341009153303270982
X-Google-Thread: fc2a5,654384f37e30a915
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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bignumber.bellsouth.net!news.bellsouth.net!bignews5.bellsouth.net.POSTED!ef55a73e!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.12 (X11/20070606)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS VFO with AD9850 / AD9851 and PIC16F877A
References: <1191317606.379971.49740@g4g2000hsf.googlegroups.com>
<kKedncDMJKHcVJranZ2dnUVZ_h2pnZ2d@comcast.com>
<1191721658.453303.126810@o3g2000hsb.googlegroups.com>
<1191778891.686186.250620@o3g2000hsb.googlegroups.com>
In-Reply-To: <1191778891.686186.250620@o3g2000hsb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 88
Message-ID: <QVzOi.3976$fa.318@bignews5.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcbojbhliobgcbhdihnefjcbmomclaoomcmmmm
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NNTP-Posting-Date: Mon, 08 Oct 2007 20:27:28 EDT
Organization: BellSouth Internet Group
Date: Tue, 09 Oct 2007 00:27:46 +0000
Xref: g2news2.google.com rec.radio.amateur.homebrew:1204

pbshaji@gmail.com wrote:
> On Oct 6, 6:47 pm, Tom <holden_fam...@sympatico.ca> wrote:
>> On Oct 6, 1:43 pm, "gb" <w9nogbs...@arrlspamno.net> wrote:
>>
>>
>>
>>> <pbsh...@gmail.com> wrote in message
>>> news:1191317606.379971.49740@g4g2000hsf.googlegroups.com...
>>>> Hi
>>>> I Have successfully completed a DDS with the following facilities. It
```

>>>> uses Mcrocontroller PIC16F877A and AD 9850/9851 DDS chip. The main
>>>> facility in this DDS VFO is any settings including chip type and DDS
>>>> clock can be changed even after programming the Microcontroller CHIP.
>>>> Please click on the link below for more details.
>>>> http://hamradioindia.org/forums/viewtopic.php?=&p=2428
>>>> Here is some details.
>>>> 1) DUAL VFO, that is VFO A, VFO B and A=B facilities.
>>>> 2) UP to 50 RX frequency storage on MEMORY.
>>>> 3) The Software allows 2 modes of operation,
>>>> a) VFO MODE, where the encoder is used to adjust the frequency.
>>>> While in this mode, VFO A or B is displayed on the top line of the
>>>> LCD.
>>>> b) MEMORY MODE, where the encoder is used to select a previously saved
>>>> frequency. While in this mode, MEM is displayed on the top line of the
>>>> LCD.
>>>> 4) KEYPAD Frequency entry and additional 7 Press buttons for other
>>>> functions.
>>>> The remaining Functions included in the KEYPAD itself.
>>>> 5) UP/DOWN fast search in three different steps using KEYPAD which is
>>>> user selective.
>>>> 6) SCAN and quick UP/DOWN search in three different steps with auto
>>>> Repeat on PTT.
>>>> 7) Frequencies are entered in MHz, the * is used to enter a decimal
>>>> point,
>>>> and the # is used to ENTER the completed frequency.
>>>> If the first digit entered is the #, the number entered will be
>>>> negative.
>>>> 8) S- Meter reading from S0 to S9+40db in logarithmic db range.
>>>> 9) Variable rate tuning to use the cheep mechanical encoder.
>>>> 10) Step size can be changed from 1Hz to MHz range.
>>>> 11) RIT facility.
>>>> 12) VFO copy to MEMORY and from MEMORY to any VFO (A/B) facility.
>>>> 13) AM/LSB/USB/CW modes Operation with PIC pin outputs for switching.
>>>> 14) Allows -Ve and +Ve IF OFFESTS. Offset frequency = any value from
>>>> min RX frequency to Max 999MHz
>>>> 15) 10 RX BANDPASS filter selection for RX coverage from 1.5MHz to
>>>> 30MHz. Usefull to set up an All band RX.
>>>> 16) BAND PASS filter switching selectivity 1Hz and 1ms switching
>>>> speed, which allows cross band Operation.
>>>> 17) CW OFFSET adds to TX Frequency when transmitting thus avoids
>>>> modulated CW.
>>>> 18) Save to MEMORY and Copy from MEMORY functions.
>>>> 19) Scan VFO frequency and Scan MEMORY facility
>>>> 20) Time out function for ignoring any wrong entry in system settings.
>>>> 21) Auto repeat function for respective keys.
>>>> 22) Display Multiplier Option to use with VHF rigs
>>>> 23) Menu screen allows user to change any settings in the setup
>>>> screen.
>>>> 24) All settings can be changed in the SETUP screen at any time even
>>>> when the DDS is in working mode including DDS chip type and Reference
>>>> Clock.
>>>> 25) LBS/USB/CW Crystal switching (USB is treated as CW).
>>>> 26) CW OFFSET adds to TX Frequency when transmitting thus avoids

```
>>>> modulated CW.
>>>> I will be giving the software FREE along with the PCB. Interested
>>>> homebrewers may Email me for Circuit and other details.
>>>> I can send the PCB anywhere in the world using Registered INDIA POST.
>>>> SHAJI.P.BVU3WIJ
>>>> KOZHIKODE, INDIA.
>>>> E mail: vu3...@hamradio.in and pbsh...@gmail.com (mark copy in both id)
>>> Are you still providing the PCB and PIC chip w/source (as mentioned in
>>> April) ??
>>> Greg
>>> w9gb- Hide quoted text -
>>> - Show quoted text -
>> The links seem to be broken. I googled and found him posting recently
>> athttp://www.hamradio.in/forums/search.php?search_author=vu3wij.
>>
>> Tom VE3MEO
>
> Hi,
>
> Thanks for the reply. I have the PCB and PIC. here is the link
> http://www.hamradio.in/forums/viewtopic.php?t=857 have a look.
>
> SHAJI  VU3WIJ
>
Wonder if anybody found a link to the pic source code.


From -3848470697476862643
X-Google-Thread: 10c2ee,4d10b3dc582185f0
X-Google-Thread: fc8b1,4d10b3dc582185f0
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X-Google-Thread: fc2a5,4d10b3dc582185f0
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o80g2000hse.googlegroups.com!not-for-
mail
From:  nesesu <neil_sutcliffe@telus.net>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,sci.electronics.repair,rec.
radio.amateur.homebrew
Subject: Re: Heathkit CT-1 problem ?
Date: Mon, 08 Oct 2007 19:24:26 -0700
Organization: http://groups.google.com
Lines: 22
Message-ID: <1191896666.535659.142630@o80g2000hse.googlegroups.com>
References: <MPxOi.32078$eY.16787@newssvr13.news.prodigy.net>
   <1YOdnb7fE7s_J5fanZ2dnUVZ_qKgnZ2d@comcast.com>
   <1zzOi.32097$eY.4813@newssvr13.news.prodigy.net>
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Mime-Version: 1.0
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X-Trace: posting.google.com 1191896666 1813 127.0.0.1 (9 Oct 2007 02:24:26 GMT)
X-Complaints-To: groups-abuse@google.com
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NNTP-Posting-Date: Tue, 9 Oct 2007 02:24:26 +0000 (UTC)
In-Reply-To: <1zzOi.32097$eY.4813@newssvr13.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o80g2000hse.googlegroups.com; posting-host=216.232.181.190;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.antiques.radio+phono:11402
rec.radio.amateur.boatanchors:1336 sci.electronics.repair:11529
rec.radio.amateur.homebrew:1205

On Oct 8, 5:03 pm, "Henry Kolesnik" <koles...@nojunksbcglobal.net>
wrote:
> Dave
> Thanks for the offer but I have a manual copy that seems to be god
> enough..
> I'm hoping some one who sees the post and has a CT-1 has the time to
> take a look inside to see if there;s really a 5 mmf cap across the coil.
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> news:1YOdnb7fE7s_J5fanZ2dnUVZ_qKgnZ2d@comcast.com...
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operating over the range of loads, so I should try 10pF and see how it
works with a variety of capacitor values under test. If it craps out
at either end of the load range, try 5, 15 or 20pF and see how it
goes.

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From 8240363529104278605
X-Google-Thread: 10c2ee,4d10b3dc582185f0
X-Google-Thread: fc8b1,4d10b3dc582185f0
X-Google-Thread: 1131b0,4d10b3dc582185f0
X-Google-Thread: fc2a5,4d10b3dc582185f0
X-Google-Attributes: gid10c2ee,gidfc8b1,gid1131b0,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news2.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr13.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,sci.electronics.repair,rec.radio.amateur.homebrew
References: <MPxOi.32078$eY.16787@newssvr13.news.prodigy.net>
<1YOdnb7fE7s_J5fanZ2dnUVZ_qKgnZ2d@comcast.com>

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<1zzOi.32097$eY.4813@newssvr13.news.prodigy.net>
<1191896666.535659.142630@o80g2000hse.googlegroups.com>
Subject: Re: Heathkit CT-1 problem ?
Lines: 35
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <zMBOi.32132$eY.27909@newssvr13.news.prodigy.net>
NNTP-Posting-Host: 70.234.41.251
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr13.news.prodigy.net 1191897247 ST000 70.234.41.251 (Mon, 08 Oct
2007 22:34:07 EDT)
NNTP-Posting-Date: Mon, 08 Oct 2007 22:34:07 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
FKPGW[[DYJWUCQLXEBCBNWX@RJ_XPDLMN@GZ_GYO^BSZUSAANVUEAE[YETZPIWWI[FCIZA^NBFXZ_D[BFN
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@A_A^SGFAUDE_DFTMQPFWVW[QPJN
Date: Tue, 09 Oct 2007 02:34:07 GMT
Xref: g2news2.google.com rec.antiques.radio+phono:11407
rec.radio.amateur.boatanchors:1337 sci.electronics.repair:11530
rec.radio.amateur.homebrew:1206

Hi Neil
Mine has the 10mmf  on the end opposite the green dot..
But my schematic shows a 5mmf across the big coil which mine doesn't
have..
Does yours have a 5 mmf on the coil as shown on the schematic and in
Fig. 3 page 11?
tnx
Hank
"nesesu" <neil_sutcliffe@telus.net> wrote in message
news:1191896666.535659.142630@o80g2000hse.googlegroups.com...
> On Oct 8, 5:03 pm, "Henry Kolesnik" <koles...@nojunksbcglobal.net>
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```

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From -5883724166267597415
X-Google-Thread: 10c2ee,4d10b3dc582185f0
X-Google-Thread: fc8b1,4d10b3dc582185f0
X-Google-Thread: 1131b0,4d10b3dc582185f0
X-Google-Thread: fc2a5,4d10b3dc582185f0
X-Google-Attributes: gid10c2ee,gidfc8b1,gid1131b0,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.boatanchors,sci.electronics.repair,rec.radio.amateur.homebrew
Subject: Re: Heathkit CT-1 problem ?
Date: Mon, 8 Oct 2007 20:06:04 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13gls0ksn69s63c@corp.supernews.com>
References: <MPxOi.32078$eY.16787@newssvr13.news.prodigy.net>
<1YOdnb7fE7s_J5fanZ2dnUVZ_qKgnZ2d@comcast.com>
<1zzOi.32097$eY.4813@newssvr13.news.prodigy.net>
<1191896666.535659.142630@o80g2000hse.googlegroups.com>
<zMBOi.32132$eY.27909@newssvr13.news.prodigy.net>
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 27
Xref: g2news2.google.com rec.antiques.radio+phono:11409
rec.radio.amateur.boatanchors:1338 sci.electronics.repair:11531
rec.radio.amateur.homebrew:1207

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It does not matter if it is 21 MHz or 17 MHz, and there will be no
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Check the wiring and check to see if the oscillator is oscillating. Sometimes switch contacts are wired incorectly. Sometimes switches are improperly cleaned then fail Sometimes resistors fail.

In the past, we check the paper and electrolytic caps. Now, we may need to check the mica caps.

Colin K7FM

```
From -2019754030225142687
X-Google-Thread: 10c2ee,4d10b3dc582185f0
X-Google-Thread: fc8b1,4d10b3dc582185f0
X-Google-Thread: 1131b0,4d10b3dc582185f0
X-Google-Thread: fc2a5,4d10b3dc582185f0
X-Google-Attributes: gid10c2ee,gidfc8b1,gid1131b0,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: "William Noble" <nobody@nowhere.com>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,sci.electronics.repair,rec.
radio.amateur.homebrew
References: <MPxOi.32078$eY.16787@newssvr13.news.prodigy.net>
<1YOdnb7fE7s_J5fanZ2dnUVZ_qKgnZ2d@comcast.com>
<1zzOi.32097$eY.4813@newssvr13.news.prodigy.net>
<1191896666.535659.142630@o80g2000hse.googlegroups.com>
<zMBOi.32132$eY.27909@newssvr13.news.prodigy.net>
<13gls0ksn69s63c@corp.supernews.com>
Subject: Re: Heathkit CT-1 problem ?
Date: Mon, 8 Oct 2007 21:39:03 -0700
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Lines: 35
Message-ID: <470afa77$0$26473$88260bb3@free.teranews.com>
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NNTP-Posting-Date: 09 Oct 2007 03:50:15 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.antiques.radio+phono:11416 rec.radio.amateur.boatanchors:1340 sci.electronics.repair:11533 rec.radio.amateur.homebrew:1208

good statement - don't assume it ever worked - at one time I made my spare change fixing kits that the purchasers couldn't assemble correctly.

"COLIN LAMB" <k7fm@teleport.com> wrote in message news:13gls0ksn69s63c@corp.supernews.com...

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Posted via a free Usenet account from http://www.teranews.com

From -8808404951341063051
X-Google-Thread: fc2a5,8369463be39ccb40
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v3g2000hsg.googlegroups.com!not-for-mail

From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820 problems.
Date: Tue, 09 Oct 2007 01:29:06 -0700
Organization: http://groups.google.com
Lines: 73
Message-ID: <1191918546.482823.196860@v3g2000hsg.googlegroups.com>
References: <46f25b95$1@clear.net.nz>
   <1190978129.715936.210920@19g2000hsx.googlegroups.com>
   <470a0181@clear.net.nz>
NNTP-Posting-Host: 63.73.218.130
Mime-Version: 1.0
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X-Trace: posting.google.com 1191918546 4713 127.0.0.1 (9 Oct 2007 08:29:06 GMT)
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NNTP-Posting-Date: Tue, 9 Oct 2007 08:29:06 +0000 (UTC)
In-Reply-To: <470a0181@clear.net.nz>
User-Agent: G2/1.0
X-HTTP-UserAgent: Links (1.00pre14; Linux 2.6.13.2 i686;
80x25),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v3g2000hsg.googlegroups.com; posting-host=63.73.218.130;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1209

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From -4276537661544070269
X-Google-Thread: fc2a5,8369463be39ccb40
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!

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news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 09 Oct 2007 21:54:21 -0500
Date: Wed, 10 Oct 2007 15:53:25 +1300
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820 problems.
References: <46f25b95$1@clear.net.nz>
<1190978129.715936.210920@19g2000hsx.googlegroups.com>   <470a0181@clear.net.nz>
<1191918546.482823.196860@v3g2000hsg.googlegroups.com>
In-Reply-To: <1191918546.482823.196860@v3g2000hsg.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
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X-Antivirus: avast! (VPS 000780-0, 09/10/2007), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-28-81.dsl.telstraclear.net
Message-ID: <470c3ea3@clear.net.nz>
X-Original-Trace: 10 Oct 2007 15:53:23 +1300, 121-72-28-81.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 100
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X-Complaints-To: abuse@clear.net.nz
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1210

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From -6844760928199207146
X-Google-Thread: fc2a5,8369463be39ccb40
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out03b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!pc02.usenetserver.com!EVERESTKC.NET-
a2kHrUvQQWlmc!not-for-mail
Date: Wed, 10 Oct 2007 15:53:25 +1300
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820 problems.
References: <46f25b95$1@clear.net.nz>
<1190978129.715936.210920@19g2000hsx.googlegroups.com>   <470a0181@clear.net.nz>
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```
In-Reply-To: <1191918546.482823.196860@v3g2000hsg.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000780-0, 09/10/2007), Outbound message
X-Antivirus-Status: Clean
X-Original-Message-ID: <470c3ea3@clear.net.nz>
X-Original-Trace: 10 Oct 2007 15:53:23 +1300, 121-72-28-81.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
X-Usenet-Provider: http://www.giganews.com
X-AuthenticatedUsername: news10531
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Postfilter: 1.3.35
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Lines: 100
X-Trace: 2fb16470c41fdef7b7d1a18561
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From 6678886386234117740
X-Google-Thread: fc2a5,582592e1fb51662b,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k79g2000hse.googlegroups.com!not-for-mail
From: olawumi@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Long Range Wireless Network
Date: Wed, 10 Oct 2007 07:16:24 -0000
Organization: http://groups.google.com
Lines: 10
Message-ID: <1192000584.504288.137930@k79g2000hse.googlegroups.com>
NNTP-Posting-Host: 80.250.41.174
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Complaints-To: groups-abuse@google.com
Injection-Info: k79g2000hse.googlegroups.com; posting-host=80.250.41.174;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1212

I am trying to establish a wireless network for Internet Access, Video
Conferencing and Intranet Applications, I though to use either a
2.4GHz Sector or Omni Directional Antenna would do the job but I can
find any product that goes as far the distance I am trying to cover (a
radius of 20Km). My idea is to use a powerful radio with the Antenna
monted on a tall mast at the location of the internet feed (via VSAT),
this location is idea for LOS at the other locations.

Does anybody has experience/advise with this ?

```
From 755470096680742282
X-Google-Thread: fc2a5,582592e1fb51662b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
213.200.89.82.MISMATCH!tiscali!newsfeed1.ip.tiscali.net!newsfeed00.sul.t-
online.de!t-online.de!newsfeed.t-com.hr!news-hub.siol.net!news.siol.net!not-for-
mail
From: Spajky <Spajky@##volja.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long Range Wireless Network
Reply-To: Spajky@##volja.net
Message-ID: <294pg396qk9tmcqb0tktiarq0311seeaqf@4ax.com>
References: <1192000584.504288.137930@k79g2000hse.googlegroups.com>
X-Newsreader: Forte Agent 1.9/32.560
MIME-Version: 1.0
Content-Type: text/plain; charset=utf-8
Content-Transfer-Encoding: 8bit
Lines: 19
Date: Wed, 10 Oct 2007 10:52:51 +0200
NNTP-Posting-Host: 194.165.104.58
X-Complaints-To: abuse@siol.net
X-Trace: news.siol.net 1192006143 194.165.104.58 (Wed, 10 Oct 2007 10:49:03 MET
DST)
NNTP-Posting-Date: Wed, 10 Oct 2007 10:49:03 MET DST
Organization: Slovenija OnLine - SiOL
Xref: g2news2.google.com rec.radio.amateur.homebrew:1213

On Wed, 10 Oct 2007 07:16:24 -0000, olawumi@gmail.com wrote:

>I am trying to establish a wireless network for Internet Access, Video
>Conferencing and Intranet Applications, I though to use either a
>2.4GHz Sector or Omni Directional Antenna  would do the job but I can
>find any product that goes as far the distance I am trying to cover (a
>radius of 20Km).  My idea is to use a powerful radio with the Antenna
>monted on a tall mast at the location of the internet feed (via VSAT),
>this location is idea for LOS at the other locations.

for such application you will need on both sides approx. 80cm (offset
used Sat) dish with properly mounted a proper feed to it; visual line
w/o obstacles in-between is a must ! get some clues:
http://www.seattlewireless.net/DirectionalParabolic

--
                Regards ,  SPAJKY ®
   mail addr. @ my site @ http://www.spajky.vze.com
   5y - "Tualatin OC-ed / BX-Slot1 / inaudible setup!"


From -6076955845956903689
X-Google-Thread: fc2a5,582592e1fb51662b
```

X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!
news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long Range Wireless Network
Date: Wed, 10 Oct 2007 10:24:12 +0000 (UTC)
Organization: MGT Consulting
Lines: 51
Message-ID: <slrnfgpa20.703.gsm@cable.mendelson.com>
References: <1192000584.504288.137930@k79g2000hse.googlegroups.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-138-209-55.bb.netvision.net.il
X-Trace: marvin.inside.misty.com 1192011852 6039 89.138.209.55 (10 Oct 2007
10:24:12 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Wed, 10 Oct 2007 10:24:12 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1214

olawumi@gmail.com wrote:
> I am trying to establish a wireless network for Internet Access, Video
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> radius of 20Km). My idea is to use a powerful radio with the Antenna
> monted on a tall mast at the location of the internet feed (via VSAT),
> this location is idea for LOS at the other locations.

It's probably illegal. In the U.S., EIRP limits are 1w for portable/mobile units and 4w for fixed (point to point links). For example, the infamous Pringles can antenna is at the border of illegal for point to point links, and is definately illegal for mobile or portable use.

I don't know what the EIRP limits are if you are out of the U,S. here in Israel it's 100mw, effectivly making gain antennas without a long (high loss) feed line illegal.

About the only way to do it with such a wide radius is a MESH network and gain antennas with 10db (10x) gain. Using a transmitter power of 100mW (which is the standard), you will be just at the limit. The extra gain of the antenna will also help increase the range of the remote units.

A cheap MESH network can be but together using Linksys WRTG54-L routers (note the "L" suffix) and third part firmware such as TOMATO (www.polarcloud.com).

You will need to do some inteligent design of the network, you want to MESH with the least number of hops to your Internet connection.

20 KM, is an awfully long range for a MESH network anyway. If you have a reliable range of 150 feet (50m) per node, and place them 300m apart, a strip 20km long by 100m wide would need 50-60 nodes depending upon terrain, buildings, etc. With a possible 25 hops between a remote device and the Internet, latency would be too high (it would take too long) for VoIP or videoconferencing. Web surfing, email, file transfer, data telemetry, would probably be ok.

WiMax would be better, if it delivers on promised performance, you would be able to place your nodes as far as 4 miles apart (2m range).

Meanwhile if you can combine a MESH and fiber optic network, you would get much better results, but at a much higher cost. You no longer would be able to use cheap routers and there is the cost of the fiber.

Geoff.

```
--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com  N3OWJ/4X1GM
IL Voice: (07)-7424-1667 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/
```

```
From 2174698177276884129
X-Google-Thread: fc2a5,8369463be39ccb40
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!g4g2000hsf.googlegroups.com!not-for-
mail
From:  Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820 problems.
Date: Wed, 10 Oct 2007 06:25:10 -0700
Organization: http://groups.google.com
Lines: 110
Message-ID: <1192022710.867401.325610@g4g2000hsf.googlegroups.com>
References: <46f25b95$1@clear.net.nz>
   <1190978129.715936.210920@19g2000hsx.googlegroups.com>
   <470a0181@clear.net.nz>
   <1191918546.482823.196860@v3g2000hsg.googlegroups.com>
   <470c3ea3@clear.net.nz>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1192022711 6392 127.0.0.1 (10 Oct 2007 13:25:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 10 Oct 2007 13:25:11 +0000 (UTC)
In-Reply-To: <470c3ea3@clear.net.nz>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=170.121.15.35;
```

```
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1215

On Oct 9, 10:53 pm, cliff wright <c.c.wri...@paradise.net.nz> wrote:
> TimShoppawrote:
> > cliff wright wrote:
>
> >>n.dilipkuma...@gmail.com wrote:
>
> >>>On Sep 20, 4:38 pm, cliff wright <c.c.wri...@paradise.net.nz> wrote:
>
> >>>>Hi guys!
> >>>>Am still going over the old TS-820 and found another problem re the
> >>>>meter. It is important when replacing the meter to check the condition
> >>>>of the multiplying resistors on the underchassis "HT" board and adjust
> >>>>to suit the actual sensitivity of the meter.
> >>>>Mine was reading 730 volts off load for final anode voltage but my
> >>>>trusty old Avometer tells me that it was actually 1,040 volts.
> >>>>Now this is WAY above the recommended anode voltage for even a 6146B
> >>>>but since the tansformer secondary is 800 volts its probably correct.
> >>>>I've now got the voltage reading correctly on the meter, but I'm now
> >>>>very convinced that the reason for flashover in some 6146's is simply
> >>>>excessive HT voltage. The finals are running in very dangerous
> >>>>territory. Just a bit of SWR then Poof!!!
> >>>>I'm now considering modifying the case and using a TT21 as a final.
> >>>>These can stand the voltage with ease, are very easy to neutralise
> >>>>and can give a good 65% efficiency in AB1 up to 30 Mhz. Will give me
> >>>>around 80 watts out I reckon.
> >>>>Just that my final box will be a bit taller and the old case will need a
> >>>>bit of chopping about.
> >>>>But then its an old rig and it might as well work properly, even
> >>>>modified. Anyone elese tried major final tube changes in the Kenwood
> >>>>hybrids?
> >>>>Regards Cliff Wright ZL1BDA ex G3NIA.
>
> >>>i'm considering to go for the same do u hav any ckt idea as well as
> >>>documents to create my own  as of now i quiet new to this field dear
> >>>cliff wright.....
>
> >>Just an update for those who might be interested.
> >>It turns out that my reservations about valve (tube) Testers were proved
> >>to be correct.
> >>I used a single 6883b in the final amp and got the following very
> >>interesting results.
> >>Tube 1 for a dc input of 84 watts the RF output was a miserable 25 watts
> >>measured with a calibrated Marconi RF power meter.
> >>Tube 2 for a Dc input of 63 watts the RF power was the same, vis 25 watts.
> >>25 Watts is the maximum power rating of the Marconi test equipment.
>
> >>So it is very obvious that damaged or low emission finals can have the
> >>effect of drastically reducing the efficiency of the Power stage.
> >>Fortunately I hope to source some more 6883B's or 6146B's this weekend.
>
```

> >>So if your transmitter gets "feeble" but the Dc input remains the same
> >>suspect your finals. Especially if it tends to red hot anodes!!!
>
> > Red hot anodes still doesn't sound right, Cliff. Did you have to turn
> > the bias pot to any unusual positions to get them to glow like that?
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> > Weak emission tubes just don't draw much current, and even if I
> > cranked the bias current up to normal while their output would be
> > feeble I generally find their plates to be sucking current anemically
> > when they're low emission. Now, gassy tubes, especially if there is
> > enough grid current to upset the grid bias, that is a problem I've
> > been having with NOS tubes lately.
>
> > What's the grid voltage when you're done biasing? For my "good"
> > 6146B's, it's almost always -50V in AB1. -75V or so is class C. If you
> > are setting the bias to something closer to -30V or -40V, I think
> > you're getting closer and closer to class A.
>
> > I remember spending a few weeks allowance on some known good 6146B's
> > when I was a kid. Are known good final tubes that hard to come by down
> > under? I'm starting to feel like I should send you some of mine just
> > to help you in your struggles :-). Besides, I'm mostly using 807's
> > here except for my Eico 720 these days!
>
> > Tim.
>
> Hi Tim.
> Yes the bias is correct as are all the other electrode voltages. I think
> that you are correct in thinking that the tubes are no longer "Vacuum
> Tubes" but more akin to 1920's soft types.
> I'm pretty sure that the problem originally began with a loose ground
> connection on the UHF antenna output cable.
> This meant that the final was running into a terrible mismatch.

"Yeahbut" the tubes probably took that mismatch in style.

It was probably another failure caused by the mismatch that started
the cascade of problems. I'm guessing an arcover in the plate blocking
capacitor and/or the final choke. After that happens I could easily
believe the tubes glowing a nice bright blue inside and other stuff
going bad (usually visibly and stenchily but not always) in the final
compartment.

An -820 is in my head still an "almost new" radio, BTW :-). I am
willing to believe some grounds failing somewhere. If I saw a burnt-
through PL-259 or piece of coax I'd be willing to believe a bad ground
in a cable.

You will note that you keep on coming back to the tubes... and I keep
on fingering other stuff in the final compartment.

My gut feeling is that if you can get the tubes to draw enough current
to make their plates glow a bright cherry red, then it's hard to blame

tube emission as being deficient. You've still got something else going on that's preventing you from loading up nicely, and while you've traced out some problems with your DC metering already I'm not convinced that those were the only problems in the final compartment.

Tim.

```
From -4500646610028735666
X-Google-Thread: fc2a5,8369463be39ccb40
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o3g2000hsb.googlegroups.com!not-for-
mail
From:  Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820 problems.
Date: Wed, 10 Oct 2007 06:34:18 -0700
Organization: http://groups.google.com
Lines: 94
Message-ID: <1192023258.875765.107600@o3g2000hsb.googlegroups.com>
References: <46f25b95$1@clear.net.nz>
   <1190978129.715936.210920@19g2000hsx.googlegroups.com>
   <470a0181@clear.net.nz>
   <1191918546.482823.196860@v3g2000hsg.googlegroups.com>
   <470c3ea3@clear.net.nz>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1192023259 26349 127.0.0.1 (10 Oct 2007 13:34:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 10 Oct 2007 13:34:19 +0000 (UTC)
In-Reply-To: <470c3ea3@clear.net.nz>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o3g2000hsb.googlegroups.com; posting-host=170.121.15.35;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1216
```

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> TimShoppawrote:
> > cliff wright wrote:
>
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>
> > Tim.
>
> Hi Tim.
> Yes the bias is correct as are all the other electrode voltages. I think
> that you are correct in thinking that the tubes are no longer "Vacuum
> Tubes" but more akin to 1920's soft types.

Actually Cliff I'm not really convinced the tubes are bad. If you
trace out the DC plate and screen current with respect to grid voltage
(I'm sure you're very familiar with the bias pot by now) I think you
might convince yourself this isn't a soft tube problem.

If you can momentarily change the grid bias from -50V to -20V or so
and see the plate current go from fifteen-twenty mA up to 200mA, then
I'm sure that the tubes aren't soft. Keep the plate current at 200mA
for more than ten or so seconds, though, and the anodes might start
melting, so this is purely a momentary exercise!

Tim.

From 5467325437795658997
X-Google-Thread: fc2a5,582592e1fb51662b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!wn13feed!
worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
From: Bruce in Alaska <fast@btpost.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long Range Wireless Network
Organization: Bruce's Trading Post
References: <1192000584.504288.137930@k79g2000hse.googlegroups.com>
<slrnfgpa20.703.gsm@cable.mendelson.com>
User-Agent: MT-NewsWatcher/3.1 (PPC)
Message-ID: <fast-AB0966.09221910102007@netnews.att.net>
Lines: 31
Date: Wed, 10 Oct 2007 17:20:23 GMT
NNTP-Posting-Host: 12.12.208.34
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1192036823 12.12.208.34 (Wed, 10 Oct
2007 17:20:23 GMT)
NNTP-Posting-Date: Wed, 10 Oct 2007 17:20:23 GMT

Xref: g2news2.google.com rec.radio.amateur.homebrew:1217

In article <slrnfgpa20.703.gsm@cable.mendelson.com>,
gsm@mendelson.com (Geoffrey S. Mendelson) wrote:

> 20 KM, is an awfully long range for a MESH network anyway. If you
> have a reliable range of 150 feet (50m) per node, and place them 300m
> apart, a strip 20km long by 100m wide would need 50-60 nodes depending
> upon terrain, buildings, etc. With a possible 25 hops between a remote
> device and the Internet, latency would be too high (it would take too
> long) for VoIP or videoconferencing. Web surfing, email, file transfer,
> data telemetry, would probably be ok.

20Km isn't at all a long distance, IF one uses High Gain antennas on both ends of the 2.4Ghz link. My T1 Phone link runs 20Km using Part15 Devices (LynxBoxes) and 6 Ft Parabolic Dish Antennas on each end.
We had to install a 6DB Attenuator in the Feedline at both ends of the Link, just to keep the RSL in the AGC Range of the Receivers. One just needs to understand the parameters of the Path being used, and the hardware required to make the Path work with the appropriate Path Losses involved.

This is an Unlicensed Link owned and operated by ALASCOM, our Longlines Carrier.

It also is colocated with a WiFi Network of Access Points that distributes IP Traffic to our local community, which I own and Operate. It is a matter of RF Engineering. Get that right, and things can be worked out.

Bruce in alaska
--
add <path> before @

From 5170953267103986952
X-Google-Thread: fc2a5,6eb6ae47b6bf556b,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!eweka.nl!lightspeed.eweka.nl!195.114.231.69.MISMATCH!feeder.news-service.com!216.196.110.148.MISMATCH!border1.nntp.ams.giganews.com!nntp.giganews.com!sn-xt-ams-06!sn-xt-ams-04!sn-post-ams-01!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: A better battery case?
Date: Wed, 10 Oct 2007 14:39:55 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13gqakenbq5065d@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198

X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 15
Xref: g2news2.google.com rec.radio.amateur.homebrew:1218

Anyone know where I can find a 12V AA (8-cell) battery case w/cover, for my current homebrew project? I had a good 9V case, but took it out when I decided to move to 12V. Currently have a crappy looking 8-cell case without cover, and am seeking something more professional looking. May go back to the 9V (6-cell) case w/cover. Or just live with the crappy one until something better comes along.

If anyone knows where I can find an 8-cell AA battery case w/cover, I'm all ears.

Thanks,

Dave

From -7942710105710135292
X-Google-Thread: fc2a5,582592e1fb51662b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long Range Wireless Network
Date: Wed, 10 Oct 2007 15:41:48 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13gqe6p6ll1la3c@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <1192000584.504288.137930@k79g2000hse.googlegroups.com> <slrnfgpa20.703.gsm@cable.mendelson.com> <fast-AB0966.09221910102007@netnews.att.net>
In-Reply-To: <fast-AB0966.09221910102007@netnews.att.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 21
Xref: g2news2.google.com rec.radio.amateur.homebrew:1219

Bruce in Alaska wrote:

> In article <slrnfgpa20.703.gsm@cable.mendelson.com>,
> gsm@mendelson.com (Geoffrey S. Mendelson) wrote:
>

```
>
>>20 KM, is an awfully long range for a MESH network anyway.

<snip>

> 20Km isn't at all a long distance,

<snip>

I think the O.P.'s problem is regulatory issues regarding EIRP
in his country preventing him from using hi-gain antennas.

Regards,

Michael




From 8091523464151403734
X-Google-Thread: 10c2ee,4d10b3dc582185f0
X-Google-Thread: fc8b1,4d10b3dc582185f0
X-Google-Thread: 1131b0,4d10b3dc582185f0
X-Google-Thread: fc2a5,4d10b3dc582185f0
X-Google-Attributes: gid10c2ee,gidfc8b1,gid1131b0,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!19g2000hsx.googlegroups.com!not-for-
mail
From:  nesesu <neil_sutcliffe@telus.net>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,sci.electronics.repair,rec.
radio.amateur.homebrew
Subject: Re: Heathkit CT-1 problem ?
Date: Wed, 10 Oct 2007 13:45:40 -0700
Organization: http://groups.google.com
Lines: 53
Message-ID: <1192049140.742683.67320@19g2000hsx.googlegroups.com>
References: <MPxOi.32078$eY.16787@newssvr13.news.prodigy.net>
   <1YOdnb7fE7s_J5fanZ2dnUVZ_qKgnZ2d@comcast.com>
   <1zzOi.32097$eY.4813@newssvr13.news.prodigy.net>
   <1191896666.535659.142630@o80g2000hse.googlegroups.com>
   <zMBOi.32132$eY.27909@newssvr13.news.prodigy.net>
NNTP-Posting-Host: 216.232.181.190
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1192049140 14352 127.0.0.1 (10 Oct 2007 20:45:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 10 Oct 2007 20:45:40 +0000 (UTC)
In-Reply-To: <zMBOi.32132$eY.27909@newssvr13.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 19g2000hsx.googlegroups.com; posting-host=216.232.181.190;
```

posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.antiques.radio+phono:11557
rec.radio.amateur.boatanchors:1362 sci.electronics.repair:11666
rec.radio.amateur.homebrew:1220

On Oct 8, 7:34 pm, "Henry Kolesnik" <koles...@nojunksbcglobal.net>
wrote:
> Hi Neil
> Mine has the 10mmf on the end opposite the green dot..
> But my schematic shows a 5mmf across the big coil which mine doesn't
> have..
> Does yours have a 5 mmf on the coil as shown on the schematic and in
> Fig. 3 page 11?
> tnx
> Hank"nesesu" <neil_sutcli...@telus.net> wrote in message
>
> news:1191896666.535659.142630@o80g2000hse.googlegroups.com...
>
>
>
> > On Oct 8, 5:03 pm, "Henry Kolesnik" <koles...@nojunksbcglobal.net>
> > wrote:
> >> Dave
> >> Thanks for the offer but I have a manual copy that seems to be god
> >> enough..
> >> I'm hoping some one who sees the post and has a CT-1 has the time to
> >> take a look inside to see if there;s really a 5 mmf cap across the
> >> coil.
> >> Right now I'm trying to recall what junkbox of my many might have
> >> one..
> >> Hank"DaveM" <masondg4...@comcast99.net> wrote in message
>
> >>news:1YOdnb7fE7s_J5fanZ2dnUVZ_qKgnZ2d@comcast.com...
>
> > Henry, I just opened mine and it has a 10pF NPO ceramic across the end
> > of the coil opposite the green dot [the left end looking from the
> > rear]. The frequency of the oscillation in not as critical as it
> > operating over the range of loads, so I should try 10pF and see how it
> > works with a variety of capacitor values under test. If it craps out
> > at either end of the load range, try 5, 15 or 20pF and see how it
> > goes.
>
> > Neil S.- Hide quoted text -
>
> - Show quoted text -

I checked mine and the schematic does not show any cap across the
'large' coil, nor is there one. You might check the cathode for
oscillation activity since virtually any capacitance across the
secondary will kill the oscillation [even a 'scope probe]. There is
not a whole lot in there to go wrong, so you might check the eye tube
triode for emission; if it is weak that could be a problem, or if it
has been inactive for a long time. Mine has not been used since I

refurbished it 10 or so years ago, and it worked immediately I turned
it on and the tube warmed up.

Neil S.

From 4186137328090568818
X-Google-Thread: fc2a5,582592e1fb51662b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.germany.com!aioe.org!fmmck
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long Range Wireless Network
Date: Wed, 10 Oct 2007 23:50:45 -0400
Organization: Aioe.org NNTP Server
Lines: 40
Message-ID: <fmmck-C4C998.23504510102007@nntp.aioe.org>
References: <1192000584.504288.137930@k79g2000hse.googlegroups.com>
NNTP-Posting-Host: RkVANaSJpAbunDI3/9xJYQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.2 (Intel Mac OS X)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1221

In article <1192000584.504288.137930@k79g2000hse.googlegroups.com>,
 olawumi@gmail.com wrote:

> I am trying to establish a wireless network for Internet Access, Video
> Conferencing and Intranet Applications, I though to use either a
> 2.4GHz Sector or Omni Directional Antenna would do the job but I can
> find any product that goes as far the distance I am trying to cover (a
> radius of 20Km). My idea is to use a powerful radio with the Antenna
> monted on a tall mast at the location of the internet feed (via VSAT),
> this location is idea for LOS at the other locations.
>
> Does anybody has experience/advise with this ?

As I understand the problem, the network would cover an area with a 20Km
RADIUS. You include a reference to an omnidirectional antenna and a
"powerful" radio, with the base station antenna mounted sufficiently
high to be line-of-sight from the end-users.

My thought is that you are a bit naive, describing a one-way system
similar to a Television or FM Broadcast Station. There are existing
systems used for providing community internet access, and I don't think
that is how they work!

While I'm not familiar with the community systems, there are technical
problems with your proposal. For one, it is a two-way system. If high
power is required at either end, it is required at both ends. Even with
a high gain antenna at the remote end, the gain works on both
transmitting and receiving.

For another, by using a single base station site to cover such a wide area, the base station receiver will be exposed to various noise sources over that entire area. The total interference from these sources will reduce data rates for all users' transmissions toward the base station.

Perhaps Geoff's MESH Network or Bruce's WiFi Network would be a good approach, but breaking the coverage area down into a more manageable size and using multiple sites.

Fred
K4DII

```
From 8542902235017898793
X-Google-Thread: fc2a5,8369463be39ccb40
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!
news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 10 Oct 2007 23:16:08 -0500
Date: Thu, 11 Oct 2007 17:16:29 +1300
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820 problems.
References: <46f25b95$1@clear.net.nz>
<1190978129.715936.210920@19g2000hsx.googlegroups.com>   <470a0181@clear.net.nz>
<1191918546.482823.196860@v3g2000hsg.googlegroups.com>   <470c3ea3@clear.net.nz>
<1192023258.875765.107600@o3g2000hsb.googlegroups.com>
In-Reply-To: <1192023258.875765.107600@o3g2000hsb.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000780-1, 10/10/2007), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-28-81.dsl.telstraclear.net
Message-ID: <470da385@clear.net.nz>
X-Original-Trace: 11 Oct 2007 17:16:05 +1300, 121-72-28-81.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 133
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-AuthenticatedUsername: news10531
X-Trace: sv3-
MciqHzeaxUhISTJwrfwQ3rsMXLOSbp05ERUWig4XM2pMtyFBi6vBlq5YGBAdfbuayPD25NE6ONG2wAg!
evaR7qwyfhbVR/eFvgQFs5/EYqiv5QGY0X8wb7Dvbo6knC9VA+smrnA=
X-Complaints-To: abuse@clear.net.nz
X-DMCA-Complaints-To: abuse@clear.net.nz
```

X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1222

Tim Shoppa wrote:
> On Oct 9, 10:53 pm, cliff wright <c.c.wri...@paradise.net.nz> wrote:
>
>>TimShoppawrote:
>>
>>>cliff wright wrote:
>>
>>>>n.dilipkuma...@gmail.com wrote:
>>
>>>>>On Sep 20, 4:38 pm, cliff wright <c.c.wri...@paradise.net.nz> wrote:
>>
>>>>>>Hi guys!
>>>>>>Am still going over the old TS-820 and found another problem re the
>>>>>>meter. It is important when replacing the meter to check the condition
>>>>>>of the multiplying resistors on the underchassis "HT" board and adjust
>>>>>>to suit the actual sensitivity of the meter.
>>>>>>Mine was reading 730 volts off load for final anode voltage but my
>>>>>>trusty old Avometer tells me that it was actually 1,040 volts.
>>>>>>Now this is WAY above the recommended anode voltage for even a 6146B
>>>>>>but since the tansformer secondary is 800 volts its probably correct.
>>>>>>I've now got the voltage reading correctly on the meter, but I'm now
>>>>>>very convinced that the reason for flashover in some 6146's is simply
>>>>>>excessive HT voltage. The finals are running in very dangerous
>>>>>>territory. Just a bit of SWR then Poof!!!
>>>>>>I'm now considering modifying the case and using a TT21 as a final.
>>>>>>These can stand the voltage with ease, are very easy to neutralise
>>>>>>and can give a good 65% efficiency in AB1 up to 30 Mhz. Will give me
>>>>>>around 80 watts out I reckon.
>>>>>>Just that my final box will be a bit taller and the old case will need a
>>>>>>bit of chopping about.
>>>>>>But then its an old rig and it might as well work properly, even
>>>>>>modified. Anyone elese tried major final tube changes in the Kenwood
>>>>>>hybrids?
>>>>>>Regards Cliff Wright ZL1BDA ex G3NIA.
>>
>>>>>i'm considering to go for the same do u hav any ckt idea as well as
>>>>>documents to create my own as of now i quiet new to this field dear
>>>>>cliff wright.....
>>
>>>>Just an update for those who might be interested.
>>>>It turns out that my reservations about valve (tube) Testers were proved
>>>>to be correct.
>>>>I used a single 6883b in the final amp and got the following very
>>>>interesting results.
>>>>Tube 1 for a dc input of 84 watts the RF output was a miserable 25 watts
>>>>measured with a calibrated Marconi RF power meter.
>>>>Tube 2 for a Dc input of 63 watts the RF power was the same, vis 25 watts.

>>>>25 Watts is the maximum power rating of the Marconi test equipment.
>>
>>>>So it is very obvious that damaged or low emission finals can have the
>>>>effect of drastically reducing the efficiency of the Power stage.
>>>>Fortunately I hope to source some more 6883B's or 6146B's this weekend.
>>
>>>>So if your transmitter gets "feeble" but the Dc input remains the same
>>>>suspect your finals. Especially if it tends to red hot anodes!!!
>>
>>>Red hot anodes still doesn't sound right, Cliff. Did you have to turn
>>>the bias pot to any unusual positions to get them to glow like that?
>>
>>>Weak emission tubes just don't draw much current, and even if I
>>>cranked the bias current up to normal while their output would be
>>>feeble I generally find their plates to be sucking current anemically
>>>when they're low emission. Now, gassy tubes, especially if there is
>>>enough grid current to upset the grid bias, that is a problem I've
>>>been having with NOS tubes lately.
>>
>>>What's the grid voltage when you're done biasing? For my "good"
>>>6146B's, it's almost always -50V in AB1. -75V or so is class C. If you
>>>are setting the bias to something closer to -30V or -40V, I think
>>>you're getting closer and closer to class A.
>>
>>>I remember spending a few weeks allowance on some known good 6146B's
>>>when I was a kid. Are known good final tubes that hard to come by down
>>>under? I'm starting to feel like I should send you some of mine just
>>>to help you in your struggles :-). Besides, I'm mostly using 807's
>>>here except for my Eico 720 these days!
>>
>>>Tim.
>>
>>Hi Tim.
>>Yes the bias is correct as are all the other electrode voltages. I think
>>that you are correct in thinking that the tubes are no longer "Vacuum
>>Tubes" but more akin to 1920's soft types.
>
>
> Actually Cliff I'm not really convinced the tubes are bad. If you
> trace out the DC plate and screen current with respect to grid voltage
> (I'm sure you're very familiar with the bias pot by now) I think you
> might convince yourself this isn't a soft tube problem.
>
> If you can momentarily change the grid bias from -50V to -20V or so
> and see the plate current go from fifteen-twenty mA up to 200mA, then
> I'm sure that the tubes aren't soft. Keep the plate current at 200mA
> for more than ten or so seconds, though, and the anodes might start
> melting, so this is purely a momentary exercise!
>
> Tim.
>
Hi Tim. Well some more to consider!
However I am at a loss to explain it through any final Tank circuit or

switch problems. I have had the final assembly all apart twice now and gone through every component. Fotunately I have a reasonably accurate digital LCR bridge to even check the inductor values. All sems fine.
The antenna T/R relay was another suspect, but this too checks out OK.

The big "Tube" thing of course is that my 2 examples of 6883B's give such a difference in efficiency. one giving 25 watts out for 84 watts in and the other 25 watts out for 62 watts. Neither of these tubes are new or of known provenance, though they both are alledgedly OK on my Heath TC-3 valve tester. This is with one final operating in Kenwood's "novice mode". I probably didn't make this clear in my recent posting.
Since the final heaters are now in parallel I can very readily run this mode whenever I want too.
The fact that they are both inefficient, but to widely different degrees keeps bringing me back to the tubes being the problem.

Based on my experience with AB1 linears that I've built over the years I'd expect an output of ~55 to 60 watts with a ~90 watt DC input.
My old parallel TT21 (KT88 with tc Anode) linear was 67% efficient on 14 MHz measured with state of the art test gear in the mid 1970's.
Now from QST and other sources I know that the losses in the Pi network on the 820S are greater than those I obtained in my "home brew" finals, but even so I would expect ~60% efficiency if all is well.

I have tried bias changes BTW and the odd thing is that the plate current tends to rise after a short interval. This brings to my mind the possibilty of some kind of secondary emission in the 6883B's as the electrodes heat up. But so far the mystery remains.

In any event I hope to come home at lunchtime this Saturday with a collection of either 6146B's or 6883B's (or both) and finally prove the point! I will post a message as soon as I have more data.
73's Cliff Wright ZL1BDA ex G3NIA.

```
From -4684535742483710585
X-Google-Thread: fc2a5,a8729349c568ff7b,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o3g2000hsb.googlegroups.com!not-for-
mail
From:  ShutterMan <scott.hutter@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SWL'er question - Reciever costs
Date: Thu, 11 Oct 2007 06:57:48 -0000
Organization: http://groups.google.com
Lines: 25
Message-ID: <1192085868.690492.94920@o3g2000hsb.googlegroups.com>
NNTP-Posting-Host: 74.51.1.177
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1192085868 8364 127.0.0.1 (11 Oct 2007 06:57:48 GMT)
X-Complaints-To: groups-abuse@google.com
```

NNTP-Posting-Date: Thu, 11 Oct 2007 06:57:48 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 6.0; en-US; rv:1.8.1.7)
Gecko/20070914 Firefox/2.0.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o3g2000hsb.googlegroups.com; posting-host=74.51.1.177;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1223

Hey folks,

A lurking SWL listener here. Was wondering something about receivers in general. Why is it that all-band receivers are generally more expensive than HF-only receivers? I know there are other circuits in there, but in essence, aren't all receiver circuits basically the same, just with the ability to tune to different frequencies?

I suppose another way of asking is this: a simple AM radio tank circuit could be modified by adjusting the coil turns and/or variable capacitor in order to pick up other frequencies. Why does this (rather oversimplified) simple change cause the cost of the receiver to go up nearly 50% in cost? (comparing a simple handheld AM radio with one that includes a shortwave band or two).   An AM/FM stereo radio is cheaper in many cases than a similar radio with SW bands. But you'd think that VHF reception would be slightly more expensive to manufacture than AM's nearby neighbor SW. Confuses me.

I also notice that HF transceivers can cost roughly the same as HF receivers - you'd think a receiver WITH transmitter would be much more expensive, but from what I can see its not. Something isn't registering in my mind as to why all these cost differences.

Thanks for your responses.

From -4511246134175949491
X-Google-Thread: fc2a5,8369463be39ccb40
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out02a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!pc02.usenetserver.com!EVERESTKC.NET-
a2kHrUvQQWlmc!not-for-mail
Date: Thu, 11 Oct 2007 17:16:29 +1300
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820 problems.
References: <46f25b95$1@clear.net.nz>

```
<1190978129.715936.210920@19g2000hsx.googlegroups.com>   <470a0181@clear.net.nz>
<1191918546.482823.196860@v3g2000hsg.googlegroups.com>   <470c3ea3@clear.net.nz>
<1192023258.875765.107600@o3g2000hsb.googlegroups.com>
In-Reply-To: <1192023258.875765.107600@o3g2000hsb.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000780-1, 10/10/2007), Outbound message
X-Antivirus-Status: Clean
X-Original-Message-ID: <470da385@clear.net.nz>
X-Original-Trace: 11 Oct 2007 17:16:05 +1300, 121-72-28-81.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
X-Usenet-Provider: http://www.giganews.com
X-AuthenticatedUsername: news10531
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Postfilter: 1.3.36
Message-ID: <bbf5$470dcf42$4aded8bf$5944@EVERESTKC.NET>
X-Complaints-To: abuse@usenetserver.com
Lines: 133
X-Trace: 0bbf5470dcf42ef7b7d1a05944
Xref: g2news2.google.com rec.radio.amateur.homebrew:1224

Tim Shoppa wrote:
> On Oct 9, 10:53 pm, cliff wright <c.c.wri...@paradise.net.nz> wrote:
>
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>>
>>>cliff wright wrote:
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```

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>>
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>>>>Tube 1 for a dc input of 84 watts the RF output was a miserable 25 watts
>>>>measured with a calibrated Marconi RF power meter.
>>>>Tube 2 for a Dc input of 63 watts the RF power was the same, vis 25 watts.
>>>>25 Watts is the maximum power rating of the Marconi test equipment.
>>
>>>>So it is very obvious that damaged or low emission finals can have the
>>>>effect of drastically reducing the efficiency of the Power stage.
>>>>Fortunately I hope to source some more 6883B's or 6146B's this weekend.
>>
>>>>So if your transmitter gets "feeble" but the Dc input remains the same
>>>>suspect your finals. Especially if it tends to red hot anodes!!!
>>
>>>Red hot anodes still doesn't sound right, Cliff. Did you have to turn
>>>the bias pot to any unusual positions to get them to glow like that?
>>
>>>Weak emission tubes just don't draw much current, and even if I
>>>cranked the bias current up to normal while their output would be
>>>feeble I generally find their plates to be sucking current anemically
>>>when they're low emission. Now, gassy tubes, especially if there is
>>>enough grid current to upset the grid bias, that is a problem I've
>>>been having with NOS tubes lately.
>>
>>>What's the grid voltage when you're done biasing? For my "good"
>>>6146B's, it's almost always -50V in AB1. -75V or so is class C. If you
>>>are setting the bias to something closer to -30V or -40V, I think
>>>you're getting closer and closer to class A.
>>
>>>I remember spending a few weeks allowance on some known good 6146B's
>>>when I was a kid. Are known good final tubes that hard to come by down
>>>under? I'm starting to feel like I should send you some of mine just
>>>to help you in your struggles :-). Besides, I'm mostly using 807's
>>>here except for my Eico 720 these days!
>>
>>>Tim.
>>
>>Hi Tim.
>>Yes the bias is correct as are all the other electrode voltages. I think
>>that you are correct in thinking that the tubes are no longer "Vacuum
>>Tubes" but more akin to 1920's soft types.
>

>
> Actually Cliff I'm not really convinced the tubes are bad. If you
> trace out the DC plate and screen current with respect to grid voltage
> (I'm sure you're very familiar with the bias pot by now) I think you
> might convince yourself this isn't a soft tube problem.
>
> If you can momentarily change the grid bias from -50V to -20V or so
> and see the plate current go from fifteen-twenty mA up to 200mA, then
> I'm sure that the tubes aren't soft. Keep the plate current at 200mA
> for more than ten or so seconds, though, and the anodes might start
> melting, so this is purely a momentary exercise!
>
> Tim.
>

Hi Tim. Well some more to consider!
However I am at a loss to explain it through any final Tank circuit or
switch problems. I have had the final assembly all apart twice now and
gone through every component. Fotunately I have a reasonably accurate
digital LCR bridge to even check the inductor values. All sems fine.
The antenna T/R relay was another suspect, but this too checks out OK.

The big "Tube" thing of course is that my 2 examples of 6883B's give
such a difference in efficiency. one giving 25 watts out for 84 watts in
and the other 25 watts out for 62 watts. Neither of these tubes are new
or of known provenance, though they both are alledgedly OK on my Heath
TC-3 valve tester. This is with one final operating in Kenwood's "novice
mode". I probably didn't make this clear in my recent posting.
Since the final heaters are now in parallel I can very readily run this
mode whenever I want too.
The fact that they are both inefficient, but to widely different degrees
keeps bringing me back to the tubes being the problem.

Based on my experience with AB1 linears that I've built over the years
I'd expect an output of ~55 to 60 watts with a ~90 watt DC input.
My old parallel TT21 (KT88 with tc Anode) linear was 67% efficient on 14
MHz measured with state of the art test gear in the mid 1970's.
Now from QST and other sources I know that the losses in the Pi network
on the 820S are greater than those I obtained in my "home brew" finals,
but even so I would expect ~60% efficiency if all is well.

I have tried bias changes BTW and the odd thing is that the plate
current tends to rise after a short interval. This brings to my mind the
possibilty of some kind of secondary emission in the 6883B's as the
electrodes heat up. But so far the mystery remains.

In any event I hope to come home at lunchtime this Saturday with a
collection of either 6146B's or 6883B's (or both) and finally prove the
point! I will post a message as soon as I have more data.
73's Cliff Wright ZL1BDA ex G3NIA.

From 7246340073433482494
X-Google-Thread: fc2a5,a8729349c568ff7b

X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k79g2000hse.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWL'er question - Reciever costs
Date: Thu, 11 Oct 2007 06:23:01 -0700
Organization: http://groups.google.com
Lines: 77
Message-ID: <1192108981.072496.80090@k79g2000hse.googlegroups.com>
References: <1192085868.690492.94920@o3g2000hsb.googlegroups.com>
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Mime-Version: 1.0
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 11 Oct 2007 13:23:01 +0000 (UTC)
In-Reply-To: <1192085868.690492.94920@o3g2000hsb.googlegroups.com>
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Complaints-To: groups-abuse@google.com
Injection-Info: k79g2000hse.googlegroups.com; posting-host=170.121.15.35;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1225

On Oct 11, 2:57 am, ShutterMan <scott.hut...@gmail.com> wrote:

You know, a lot of the questions you ask here about "modern" radios could have very similarly applied to radios of 20 or 40 years ago. Some of the distinctions would have been different but not all that many!

> Hey folks,
>
> A lurking SWL listener here. Was wondering something about receivers
> in general. Why is it that all-band receivers are generally more
> expensive than HF-only receivers? I know there are other circuits in
> there, but in essence, aren't all receiver circuits basically the
> same, just with the ability to tune to different frequencies?

Yes, but I think you underestimate the importance of front ends, preselectors before the front end, and the variety of modes and filters to be demodulated with associated different bandwidths, and multiple IF stages in reducing intermod and reducing images.

> I suppose another way of asking is this: a simple AM radio tank
> circuit could be modified by adjusting the coil turns and/or variable
> capacitor in order to pick up other frequencies. Why does this
> (rather oversimplified) simple change cause the cost of the receiver
> to go up nearly 50% in cost? (comparing a simple handheld AM radio
> with one that includes a shortwave band or two).   An AM/FM stereo

> radio is cheaper in many cases than a similar radio with SW bands.
> But you'd think that VHF reception would be slightly more expensive to
> manufacture than AM's nearby neighbor SW. Confuses me.

The FM broadcast (88MHz-108MHz) band spans way way less than an octave, and is nowhere near the IF frequency.

The SW bands (1.6MHz - 30 MHz inclusive) span more than 4 octaves and usually overlap the best choice in IF frequency for filtering the most popular modes.

Get to "all band" (which I think by your definition goes up to the GHz) and you get like 8 more octaves for your front end to cover.

> I also notice that HF transceivers can cost roughly the same as HF
> receivers - you'd think a receiver WITH transmitter would be much more
> expensive, but from what I can see its not. Something isn't
> registering in my mind as to why all these cost differences.

Many really substantial parts of a transceiver - other than the finals - are shared between the transmitter and receiver on low end models. Frequency synthesis, sideband filtering, etc. I think all low-end models share the receiver preselection with the transmit final filtering. And if you're comparing a very low-end transceiver (say $600) with an entry-level communications receiver in the same price range (say the ICOM R75) you will note that the entry-level communications receiver has many features not at all present on the transceiver. Hams like me might might gloss over a lot of those features because they aren't awfully relevant to ham band CW and SSB operation but they must be important to somebody, otherwise they wouldn't sell the radios, I guess!

I will note that the vast majority of SWL'ers seem to use radios definitely below the entry-level communcations receiver level and are typically in the under-$200 range.

For the past couple decades most ham transceivers were, out of the box, of marginal utility for SWLing because the filters were chosen for CW and SSB operation, not for AM. Yeah, they had a mode button on the front marked "AM" in some cases but didn't have a really good filter for AM installed from the factory. And all the preselection was optimized for the ham bands, not the SWL bands (assuming that you could tune outside the ham bands at all, not all could, but post-WARC many began being general-coverage for receive.) On the high-end ham transceivers I think this distinction is not really there anymore but we're talking about the > $2500 price range and the good high-end transceivers are beginning to incoprorate *multiple* HF receivers into them.

Tim.

```
From -8785788746140061962
X-Google-Thread: fc2a5,582592e1fb51662b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!g4g2000hsf.googlegroups.com!not-for-
mail
From:  olawumi@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long Range Wireless Network
Date: Thu, 11 Oct 2007 13:39:39 -0000
Organization: http://groups.google.com
Lines: 49
Message-ID: <1192109979.132974.255470@g4g2000hsf.googlegroups.com>
References: <1192000584.504288.137930@k79g2000hse.googlegroups.com>
   <fmmck-C4C998.23504510102007@nntp.aioe.org>
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Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1192109979 19270 127.0.0.1 (11 Oct 2007 13:39:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 11 Oct 2007 13:39:39 +0000 (UTC)
In-Reply-To: <fmmck-C4C998.23504510102007@nntp.aioe.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1; .NET
CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506;
InfoPath.2),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=80.250.41.179;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1226

On Oct 11, 4:50 am, Fred McKenzie <fm...@aol.com> wrote:
> In article <1192000584.504288.137...@k79g2000hse.googlegroups.com>,
>
>  olaw...@gmail.com wrote:
> > I am trying to establish awirelessnetworkfor Internet Access, Video
> > Conferencing and Intranet Applications, I though to use either a
> > 2.4GHz Sector or Omni Directional Antenna  would do the job but I can
> > find any product that goes as far the distance I am trying to cover (a
> > radius of 20Km).  My idea is to use a powerful radio with the Antenna
> > monted on a tall mast at the location of the internet feed (via VSAT),
> > this location is idea for LOS at the other locations.
>
> > Does anybody has experience/advise with this ?
>
> As I understand the problem, thenetworkwould cover an area with a 20Km
> RADIUS.  You include a reference to an omnidirectional antenna and a
> "powerful" radio, with the base station antenna mounted sufficiently
> high to be line-of-sight from the end-users.
>
> My thought is that you are a bit naive, describing a one-way system
> similar to a Television or FM Broadcast Station.  There are existing
> systems used for providing community internet access, and I don't think
```

> that is how they work!
>
> While I'm not familiar with the community systems, there are technical
> problems with your proposal. For one, it is a two-way system. If high
> power is required at either end, it is required at both ends. Even with
> a high gain antenna at the remote end, the gain works on both
> transmitting and receiving.
>
> For another, by using a single base station site to cover such a wide
> area, the base station receiver will be exposed to various noise sources
> over that entire area. The total interference from these sources will
> reduce data rates for all users' transmissions toward the base station.
>
> Perhaps Geoff's MESHNetworkor Bruce's WiFiNetworkwould be a good
> approach, but breaking the coverage area down into a more manageable
> size and using multiple sites.
>
> Fred
> K4DII

Thanks for the responces, the proposal as rightly said is no different
from Wireless networks deployed by ISP in small communities. All I
need is pointers to hardware that can be used to archive this winthin
legal limits. The WiFi Solution seems to me more resonable as braking
the area into chucks means that some sites would be dependent on
others

```
From 4575461792273430812
X-Google-Thread: fc2a5,a8729349c568ff7b
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.germany.com!newsfeed.kamp.net!
newsfeed.kamp.net!eweka.nl!hq-usenetpeers.eweka.nl!68.142.88.75.MISMATCH!
hwmnpeer01.ams!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe05.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1192085868.690492.94920@o3g2000hsb.googlegroups.com>
Subject: Re: SWL'er question - Reciever costs
Lines: 74
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <09qPi.3$uB4.1@newsfe05.lga>
X-Trace:
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NNTP-Posting-Date: Thu, 11 Oct 2007 07:10:04 MST
Date: Thu, 11 Oct 2007 10:10:00 -0400
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:1227

Well, there are a few issues here.

First of all, most decent radios are superhets. This means that there must be an intermediate frequency. Selecting an intermediate frequency, or two, gets to be more of a problem the more frequencies you need to cover. Many DC to daylight rigs are full coverage, which makes the problem a lot harder than a ham band only radio, and adding more coverage obviously complicates the problem.

Secondly, as you go up in frequency, the problem changes. Component layout gets to be a bigger deal, and it is harder to get the gain you need. Many HF only radios have only marginal performance at 10 meters. If you are going to cover frequencies higher than 30 MHz, then you can't really fudge the 10 meter performance because you need to go beyond it.

At 50 MHz, you are sort of in a no man's land. You can use HF techniques or VHF techniques, but go firmly into VHF and you essentially are building another radio for the frequencies above 50 MHz or so. The techniques and parts are a lot different, even the problem you need to solve is different. At HF, it is easy to get more gain than you can actually use. As you go up in frequency, you need more gain but it gets harder to come by. Worse still, at HF the relatively low gain requirement is caused by noise in the atmosphere. Increase the gain and you get more noise, so it really doesn't buy you anything. That atmsopheric noise becomes less of an issue as you go up in frequency, but the noise in your circuitry becomes greater. As you get to VHF and beyond, you are concerned with noise figure, something that really doesn't matter at HF because it is orders of magnitude below the atmospheric noise.

As far as transceivers vs. receivers, well, there is a little cost differential, but perhaps not as much as you would expect. Part of that is because a lot of the transmitter circuitry is shared with the receiver. In particular, the expensive, critical parts are shared. The other dimension is that there is only a tiny market for high-end receivers. There are lots of SWLs out there, but very few SWLs who are willing to spend on a high end receiver. On the other hand, hams need a lot out of a receiver for it to be even useable, and they are more likely to buy a transceiver than a separate transmitter and receiver, so the size of the market starts to come into play.

Hope this sheds some light

..

"ShutterMan" <scott.hutter@gmail.com> wrote in message
news:1192085868.690492.94920@o3g2000hsb.googlegroups.com...
> Hey folks,
>
> A lurking SWL listener here. Was wondering something about receivers
> in general. Why is it that all-band receivers are generally more

> expensive than HF-only receivers? I know there are other circuits in
> there, but in essence, aren't all receiver circuits basically the
> same, just with the ability to tune to different frequencies?
>
> I suppose another way of asking is this: a simple AM radio tank
> circuit could be modified by adjusting the coil turns and/or variable
> capacitor in order to pick up other frequencies. Why does this
> (rather oversimplified) simple change cause the cost of the receiver
> to go up nearly 50% in cost? (comparing a simple handheld AM radio
> with one that includes a shortwave band or two).   An AM/FM stereo
> radio is cheaper in many cases than a similar radio with SW bands.
> But you'd think that VHF reception would be slightly more expensive to
> manufacture than AM's nearby neighbor SW. Confuses me.
>
> I also notice that HF transceivers can cost roughly the same as HF
> receivers - you'd think a receiver WITH transmitter would be much more
> expensive, but from what I can see its not. Something isn't
> registering in my mind as to why all these cost differences.
>
> Thanks for your responses.
>

From -7850936351961138878
X-Google-Thread: fc2a5,a8729349c568ff7b
X-Google-Attributes: gidfc2a5,public,usenet
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headwall.stanford.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWL'er question - Reciever costs
Date: 11 Oct 2007 12:48:13 -0500
Organization: Kansas State University
Lines: 17
Message-ID: <felnkt$lt9@unix1.cc.ksu.edu>
References: <1192085868.690492.94920@o3g2000hsb.googlegroups.com>
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X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1228

>A lurking SWL listener here. Was wondering something about receivers in
>general. Why is it that all-band receivers are generally more expensive
>than HF-only receivers?.... simple AM radio tank.... An AM/FM stereo
>radio is cheaper in many cases than a similar radio with SW bands.....

Don't forget economy of scale.

I suspect many more HF-only compared to all-band receivers are sold.

AM or AM/FM radios are sold by the gazillions; undoubtedly many, many
more than are sold with a SW band. Don't know where you are from,
but just think of the ubiquitous AA5 (All American 5-tube AM radio)!
--
--Myron A. Calhoun.
Five boxes preserve our freedoms: soap, ballot, witness, jury, and cartridge
NRA Life Member & Certified Instructor for Rifle, Pistol, & Home Firearm Safety
Also Certified Instructor for the Kansas Concealed-Carry Handgun (CCH) license

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```
From 8195409230875685258
X-Google-Thread: fc2a5,a8729349c568ff7b
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sjc-09!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWL'er question - Reciever costs
Date: Thu, 11 Oct 2007 10:58:20 -0700
Organization: Home for Obscure Mythical Beings
Message-ID: <sq42u4-agi.ln1@radagast.org>
References: <1192085868.690492.94920@o3g2000hsb.googlegroups.com>
X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
X-Complaints-To: abuse@supernews.com
Lines: 75
Xref: g2news2.google.com rec.radio.amateur.homebrew:1229
```

In article <1192085868.690492.94920@o3g2000hsb.googlegroups.com>,
ShutterMan <scott.hutter@gmail.com> wrote:

>Hey folks,
>
>A lurking SWL listener here. Was wondering something about receivers
>in general. Why is it that all-band receivers are generally more
>expensive than HF-only receivers? I know there are other circuits in
>there, but in essence, aren't all receiver circuits basically the
>same, just with the ability to tune to different frequencies?
>
>I suppose another way of asking is this: a simple AM radio tank
>circuit could be modified by adjusting the coil turns and/or variable
>capacitor in order to pick up other frequencies. Why does this
>(rather oversimplified) simple change cause the cost of the receiver
>to go up nearly 50% in cost? (comparing a simple handheld AM radio
>with one that includes a shortwave band or two).

Well, there's cost, and then there's price. They aren't the same thing.

The cost may go up because:

- The general-coverage receiver may need additional "preselector" stages in its RF front end (one per band), and

- The differences in the local oscillator stage may be more involved than you think, in order to get an LO which tunes reliably, smoothly, and stably over a very wide range of frequencies, and

- The general-coverage receiver may need more sensitivity, as well as a higher IP3 (i.e. ability to handle strong signals without overloading) because it has to handle both local signals (which are usually quite strong) as well as weak DX signals that are down near the band's noise floor, and

- The general-coverage receiver may require multiple IF frequencies, switching between them on a band-to-band basis, in order to ensure that the IF, and the harmonics of the local-oscillator frequency don't wipe out the signal you're trying to receive.

Then, there's price. Price is as much a marketing and perception issue as it is a cost issue. The market for general-coverage radios is smaller, there are fewer models made, there's less competition between sellers, and the perceived value (the set of features or capabilities) is greater. All of these contribute to the supply-and-demand equation, and tend to cause the price to settle at a higher level.

>I also notice that HF transceivers can cost roughly the same as HF
>receivers - you'd think a receiver WITH transmitter would be much more
>expensive, but from what I can see its not. Something isn't
>registering in my mind as to why all these cost differences.

That's partly because the receiver actually does incorporate most of the signal-chain components present in the transmitter - power supply, local oscillator and tuning electronics and mechanicals, case, front panel, etc. - in many transceiver designs these are shared between the transmit and receive pathways. There's some savings when you eliminate the transmitter components, but less than you might imagine (especially in today's highly-integrated designs).

It's also likely that receivers sold as receivers, may have a somewhat more sophisticated receiver design (and better performance) than the receiver stages built into all-in-one transceivers, and thus may actually cost more to build.

Then, add the smaller-marketplace and this-is-a-special-purpose-box issues, and the market price floats up.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

```
From 4393619322751940352
X-Google-Thread: fc2a5,a8729349c568ff7b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i38g2000prf.googlegroups.com!not-for-
mail
From:  ShutterMan <scott.hutter@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWL'er question - Reciever costs
Date: Fri, 12 Oct 2007 03:21:06 -0000
Organization: http://groups.google.com
Lines: 6
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References: <1192085868.690492.94920@o3g2000hsb.googlegroups.com>
   <sq42u4-agi.ln1@radagast.org>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 12 Oct 2007 03:21:07 +0000 (UTC)
In-Reply-To: <sq42u4-agi.ln1@radagast.org>
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Gecko/20070914 Firefox/2.0.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i38g2000prf.googlegroups.com; posting-host=74.51.1.177;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1230
```

Good answers from everyone, thank you. In looking at the simplest of
tank circuits for radio, I just couldnt understand why you just cant
add more coil windings and different capacitance to increase frequency
coverage.....but it looks like its alot more complicated than that.
Thanks again.

```
From -2880056113096265955
X-Google-Thread: fc2a5,a8729349c568ff7b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 12 Oct 2007 06:11:49 -0500
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1192085868.690492.94920@o3g2000hsb.googlegroups.com>   <sq42u4-
agi.ln1@radagast.org> <1192159266.819198.152090@i38g2000prf.googlegroups.com>
Subject: Re: SWL'er question - Reciever costs
```

Date: Fri, 12 Oct 2007 06:12:16 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <5fWdnZZ9LZfoy5LanZ2dnUVZ_vShnZ2d@comcast.com>
Lines: 111
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.12.232.54
X-Trace:
sv3-7EKrBQpXIgfyRedR5C7c9DqyDmtkkjgV+am6fHQ7JRpVLKLon9PmpqJGe1dsPCTai5E6TeF16QkooJ
Y!Ky4VjtI3FvhX2ubbEl1QV3UtkHeFE54rmmHkdn1Hcl21GTTuHcUmisGLScD30e9Su1ke+tsqup/X!
ZJXkTcoeV3qEqCJm5RTyQDqL0ejr
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1231

In the old days, this is exactly how it was done, but even so, think of it this way............what had to be done was to use the same tuning capacitor, but switch different resonating inductors for each tuning range. The different tuning range inductors needed different ferrite mixes for the different frequency ranges. Then, there was the R&D.......I believe that much of this research data was taken from repeated experimantation. Even today, in my own experiences with RF simulation programs, we would still have to build and fine tune the circuit under development. Just to do a new synthesizer design from start to finish would take between 6 to 18 months (these are optimistic values). Figure an engineering team of at least 3 people that are being paid between 60k to 120k a year each, and it becomes a little bit clearer just how high engineering costs can be. This doesn't count the cost of multiple iterations of the design before the engineering review team deems things to be complete.

This is one of the reasons that I decided to homebrew many different receiver designs. This is a good way to learn "the hard way" many of the things that a manufacturer must go through when working through a design, from conception to final product.

Newer designs are a little bit easier now that upconversion topologies can be used. This type of design became practical, once VHF crystal filters became viable. The stumbling block with VHF crystal filters was that in order to work, the crystal elements had to be ground so thin that they became quite fragile. Enter the overtone mode crystal filter..........now, you could use a much thicker filter blank, and resonate this crystal element on one of its overtone modes.

What VHF crystal filters allowed one to do is use these filters at the 1st I.F. The significance here is twofold. First of all, single conversion receivers with a high I.F. and good selectivity could be designed. Second, in a multiple conversion design, these same crystal filters, because of their selectivity, are able to have good 2nd image rejection (2 X 2nd I.F.)

If you look at the specifications of todays roofing filters (the filters that follow the 1st mixer in a receiver), you will notice that a 910kHz rejection spec is given. The reason for this is because the 1st I.F. is always at some high frequency between 40 and 120MHz, while the 2nd I.F. is almost 450, 455, or 460kHz (image response would be at 900, 910, or 920kHz respectively).

After this is all done, the intermediate frequencies (I.F.) have to be chosen very carefully, with spur chart analysis of the various mixers for inband spurs (this had already been done by many manufacturers, so this step can be pretty much considered done).

To make a long story short, upconversion eliminates the need for multiple bandswitched coils in the LO section of a radio, because with a high I.F. a synthesizer can be designed that will operate over less than a 1 octave range.

The significance here is that you can now operate the Varactor diodes in the VCO portion of the synthesizer over the most linear part of their range. This allows you to have a VCO that has a K/V characteristic of less than 2:1 over its tuning range. When designing a loop filter for a synthesizer, the K/V characteristic is one component of the design equations. This is very important, so that the settling time of the synthesizer will be relatively constant over its entire tuning range. With synthesizers designed for frequency hop communications or digital modes, bandswitched Varactor diodes are sometimes used for a small portion of the tuning range. Other times, a dual mode loop filter is used, with a wide bandwidth loop filter used while the PLL is acquiring lock, switching to a narrow bandwidth loop filter once the system acquires lock. This improves the close-in phase noise of the synthesizer, thus minimizing reciprocal mixing effects.

Today, settling time is not as much a factor as it used to be, since the advent of Fraction N synthesizers. This design opens another can of worms, since you now have to deal with different types of spurs. One approach that has been used is what is called a Modulated Fractional Divider. This type of design translated the Fractional N mixing spurs further out from the LO carrier. This way, these spurs can be more easily filtered.

As an example, consider a radio with a 1st I.F. of 70MHz. To tune from 0 to 30MHz with high-side injection from the 1st LO, the tuning range of this LO will tune from 70 to 100MHz. The lower sideband range from the 1st mixer will be used in this case for receiving. The only tuned circuits required for good image rejection will be a low pass filter that cuts off at about 35MHz.

Since your image band will be 140MHz away (140 to 170MHz), this response will be far down on the low pass filter's skirts, as long as this filter provides good out of band attenuation. Good shielding is important here.

Mind you, this only covers the LO portion of the receiver. In order to have good strong signal handling performance, a good 1st mixer with good IMD performance is required. Suboctave input bandpass filtering also improves IMD performance of the receiver, because by limiting the aperture of how much spectrum space the 1st mixer is actually seeing, you are limiting the integrated power that is being applied to this mixer.

I could go on and on, but I don't want to hog too much bandwidth. I have touched on only a very small part of the design challenges that a receiver designer faces. I haven't covered roofing filter bandwidth options (the other limiting factor besides phase noise performance that limits what is sometimes referred to as dynamic selectivity). The 2nd mixer is where much of this limitation occurs.

Oh, then there is the AGC system design. Typically, a receiver with AGC applied only to the I.F. system will overload at around 3000 to 10000uV. To extend the dynamic range of the AGC system, AGC needs to be applied the the RF / 1st mixer stages so that it takes over at a level where the I.F. AGC "runs out of steam". If you are not careful when you design this part of the receiver, the two AGC systems can oscillate. Drake '7 Line owners...........think about how critical that AGC adjustment is on your units. If it is not set according to Drake's specifications, the AGC will oscillate when in the fast mode.

I hope this small bit of "scratching the surface" helps. I still haven't even covered the demodulator design and the audio stage design. And then, there are the challenges of designing a low noise power supply!

Thanks to all of the other posters, for all of your good information!

Pete

"ShutterMan" <scott.hutter@gmail.com> wrote in message news:1192159266.819198.152090@i38g2000prf.googlegroups.com...
> Good answers from everyone, thank you. In looking at the simplest of
> tank circuits for radio, I just couldnt understand why you just cant
> add more coil windings and different capacitance to increase frequency
> coverage.....but it looks like its alot more complicated than that.
> Thanks again.
>

From 3863947329767978859
X-Google-Thread: fc2a5,a8729349c568ff7b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i38g2000prf.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWL'er question - Reciever costs
Date: Fri, 12 Oct 2007 07:01:23 -0700
Organization: http://groups.google.com
Lines: 39
Message-ID: <1192197683.462957.185130@i38g2000prf.googlegroups.com>
References: <1192085868.690492.94920@o3g2000hsb.googlegroups.com>
   <sq42u4-agi.ln1@radagast.org>
   <1192159266.819198.152090@i38g2000prf.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 12 Oct 2007 14:01:24 +0000 (UTC)
In-Reply-To: <1192159266.819198.152090@i38g2000prf.googlegroups.com>
User-Agent: G2/1.0

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Complaints-To: groups-abuse@google.com
Injection-Info: i38g2000prf.googlegroups.com; posting-host=170.121.15.35;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1232

On Oct 11, 11:21 pm, ShutterMan <scott.hut...@gmail.com> wrote:

> Good answers from everyone, thank you. In looking at the simplest of
> tank circuits for radio, I just couldnt understand why you just cant
> add more coil windings and different capacitance to increase frequency
> coverage.....but it looks like its alot more complicated than that.
> Thanks again.

That works over a limited range. It can be pressed into service to cover 3.5MHz - 30MHz, which is (not too surprising) the range of bands traditionally covered by a ham-band transceiver. Going down to 1.8MHz or up to 54 MHz is possible with some cleverness and a number of recent radios cover those bands too.

All that said, using traditional techniques to do the bandswitching from the front panel involved a bandswitch shaft running through the length of the radio coupled to multiple switch wafers for each section that required switching components for different bands. Some even have multiple shafts for the bandswitching run by chains or gears.

Since this is the "homebrew" group, I should point out that some homebrewers with mechanical cleverness have done this sort of bandswitching in the homebrew receivers, transmitters, and (egads!) transceivers. But a more popular technique going back at least half a century is to build a base radio that works in one band (which may not even be a ham band) and use converters/transverters to use that radio in the band of interest. Some call this the "tunable IF" technique and in ham bands the tunable IF typically covers a span of 50,100,150 kHz (if CW or SSB sub-bands only) or 500kHz (if intended to cover a whole band). There are gotchas related to images/leakthrough based on choice of IF, too, but these have been overcome with few compromises with several popular choices. The result is usually not a DC-to-daylight radio but one that works on the desired ham bands; this is counter to what a SWL'er typically expects out of their radio. (It seems that most today expect to key in a frequency on the front panel and go right to it). So the "first IF at 45 MHz" approach is more popular there.

Tim.

From 8116695259411626585
X-Google-Thread: fc2a5,582592e1fb51662b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!

```
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!
storethat.news.telefonica.de!telefonica.de!news.germany.com!aioe.org!fmmck
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long Range Wireless Network
Date: Fri, 12 Oct 2007 14:55:13 -0400
Organization: Aioe.org NNTP Server
Lines: 21
Message-ID: <fmmck-3355F4.14551312102007@nntp.aioe.org>
References: <1192000584.504288.137930@k79g2000hse.googlegroups.com> <fmmck-
C4C998.23504510102007@nntp.aioe.org>
<1192109979.132974.255470@g4g2000hsf.googlegroups.com>
NNTP-Posting-Host: JXegQIHsEj0lJin6Vgz+qQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.2 (Intel Mac OS X)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1233

In article <1192109979.132974.255470@g4g2000hsf.googlegroups.com>,
 olawumi@gmail.com wrote:

> Thanks for the responces, the proposal as rightly said is no different
> from Wireless networks deployed by ISP in small communities.

I think you are zeroing-in on a plan that will work.  My point is that a
20Km radius is NOT a small community.  While the VSAT link may have
sufficient bandwidth, your wireless distribution system may not.

It would help reduce the load by using a higher bandwidth method such as
fiber, to interconnect the various local wireless base stations to the
VSAT terminal, rather than using the wireless systems themselves for
inter-site distribution.

Remember that a wireless system's bandwidth is divided among all the
users.  As more users access the network at any one time, the slower
will be the response.

Fred
K4DII



From 5414005744176882968
X-Google-Thread: fc2a5,a8729349c568ff7b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!aioe.org!fmmck
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWL'er question - Reciever costs
Date: Fri, 12 Oct 2007 15:08:38 -0400
Organization: Aioe.org NNTP Server
Lines: 21
Message-ID: <fmmck-306E67.15083812102007@nntp.aioe.org>
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References: <1192085868.690492.94920@o3g2000hsb.googlegroups.com> <sq42u4-agi.ln1@radagast.org> <1192159266.819198.152090@i38g2000prf.googlegroups.com>
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X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.2 (Intel Mac OS X)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1234

In article <1192159266.819198.152090@i38g2000prf.googlegroups.com>,
ShutterMan <scott.hutter@gmail.com> wrote:

> Good answers from everyone, thank you. In looking at the simplest of
> tank circuits for radio, I just couldnt understand why you just cant
> add more coil windings and different capacitance to increase frequency
> coverage.....but it looks like its alot more complicated than that.
> Thanks again.

One thing that I didn't see mentioned, was that many Short-wave Broadcast stations are using Synchronous AM transmission. I understand this is a form of double sideband with reduced carrier. It can be tuned by a Single Sideband receiver, but it is difficult to tune music so it sounds right. It sounds somewhat distorted on an AM radio.

For SWL use, I would look for a Short-wave Receiver that had a true Synchronous AM detector in addition to the other modes. I don't think you will find that in many Ham Radio transceivers!

Fred
K4DII

From 3775950827716315355
X-Google-Thread: fc2a5,94abe4d59bcf288e,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e34g2000pro.googlegroups.com!not-for-mail
From: b06dqn <b06dqn@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: The Radio List
Date: Fri, 12 Oct 2007 13:30:51 -0700
Organization: http://groups.google.com
Lines: 10
Message-ID: <1192221051.689794.311200@e34g2000pro.googlegroups.com>
NNTP-Posting-Host: 86.127.9.103
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1192221052 13652 127.0.0.1 (12 Oct 2007 20:30:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 12 Oct 2007 20:30:52 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.7) Gecko/20070914 Firefox/2.0.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com

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Injection-Info: e34g2000pro.googlegroups.com; posting-host=86.127.9.103;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1235
```

Http://www.theradiolist.com - a new website has launched! find and
listen to your favorite radios or promote your own radio.
You can add your radio free for now, the website is currently in a
testing period.
There are some cool features like a browser player, with the embed
code so you can take the player and put it anywhere (just like youtube
videos), free hosting of your .asx .pls .ram files, and much more.

http://theradiolist.com come and take a look

```
From 8720797990645034840
X-Google-Thread: fc2a5,eb580653365a913c,start
X-Google-Thread: fc8b1,eb580653365a913c,start
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X-Google-Thread: 111d0a,eb580653365a913c,start
X-Google-Thread: 113975,eb580653365a913c,start
X-Google-Attributes: gidfc2a5,gidfc8b1,gid108122,gid111d0a,gid113975,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v29g2000prd.googlegroups.com!not-for-
mail
From:  "bill.meara@gmail.com" <bill.meara@gmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.amateur.equipme
nt,sci.electronics.basics,sci.astro.amateur
Subject: SolderSmoke... now from Rome
Date: Sat, 13 Oct 2007 06:39:50 -0000
Organization: http://groups.google.com
Lines: 55
Message-ID: <1192257590.924038.137870@v29g2000prd.googlegroups.com>
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NNTP-Posting-Date: Sat, 13 Oct 2007 06:39:51 +0000 (UTC)
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1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v29g2000prd.googlegroups.com; posting-host=81.208.83.208;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1236
rec.radio.amateur.boatanchors:1382 rec.radio.amateur.equipment:1115
sci.electronics.basics:10742 sci.astro.amateur:12863
```

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SolderSmoke #66

October 13, 2007
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Summer adventures.
New shack.
Meeting W7ZOI in San Diego.
The speed of dark?
Iron Pyrite.
Wireless kids.
Noise cancelling headphones.
MAILBAG: Dennis OX3UR listening from Greenland,
Gary VK2KYP,
Paolo F5VMJ on NASA and tin whiskers,
Mike WA6ARA listening (with Zen)in
the high Sierras.

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http://www.soldersmoke.com

All the programs are available here.

I hope you enjoy the program. Please send us feedback.

73 from ROME
Bill M0HBR N2CQR CU2JL
http://www.gadgeteer.us

```
From 2411733668881244659
X-Google-Thread: fc2a5,8369463be39ccb40
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
green.octanews.net!news-out.octanews.net!mauve.octanews.net!
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NNTP-Posting-Date: Sat, 13 Oct 2007 05:25:12 -0500
Date: Sat, 13 Oct 2007 23:25:15 +1300
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820 problems.
References: <46f25b95$1@clear.net.nz>
<1190978129.715936.210920@19g2000hsx.googlegroups.com>   <470a0181@clear.net.nz>
<1191918546.482823.196860@v3g2000hsg.googlegroups.com>   <470c3ea3@clear.net.nz>
<1192023258.875765.107600@o3g2000hsb.googlegroups.com>
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Content-Transfer-Encoding: 7bit
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X-Antivirus-Status: Clean
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Message-ID: <47109d05@clear.net.nz>
X-Original-Trace: 13 Oct 2007 23:25:09 +1300, 121-72-18-192.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 115
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-AuthenticatedUsername: news10531
X-Trace: sv3-bW2Nty+Oh+WEoUA39RH30XP32k8xXRnvpPKu/
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X-Complaints-To: abuse@clear.net.nz
X-DMCA-Complaints-To: abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1237
```

Tim Shoppa wrote:
> On Oct 9, 10:53 pm, cliff wright <c.c.wri...@paradise.net.nz> wrote:
>
>>TimShoppawrote:

>>
>>>cliff wright wrote:
>>
>>>>n.dilipkuma...@gmail.com wrote:
>>
>>>>>On Sep 20, 4:38 pm, cliff wright <c.c.wri...@paradise.net.nz> wrote:
>>
>>>>>>Hi guys!
>>>>>>Am still going over the old TS-820 and found another problem re the
>>>>>>meter. It is important when replacing the meter to check the condition
>>>>>>of the multiplying resistors on the underchassis "HT" board and adjust
>>>>>>to suit the actual sensitivity of the meter.
>>>>>>Mine was reading 730 volts off load for final anode voltage but my
>>>>>>trusty old Avometer tells me that it was actually 1,040 volts.
>>>>>>Now this is WAY above the recommended anode voltage for even a 6146B
>>>>>>but since the tansformer secondary is 800 volts its probably correct.
>>>>>>I've now got the voltage reading correctly on the meter, but I'm now
>>>>>>very convinced that the reason for flashover in some 6146's is simply
>>>>>>excessive HT voltage. The finals are running in very dangerous
>>>>>>territory. Just a bit of SWR then Poof!!!
>>>>>>I'm now considering modifying the case and using a TT21 as a final.
>>>>>>These can stand the voltage with ease, are very easy to neutralise
>>>>>>and can give a good 65% efficiency in AB1 up to 30 Mhz. Will give me
>>>>>>around 80 watts out I reckon.
>>>>>>Just that my final box will be a bit taller and the old case will need a
>>>>>>bit of chopping about.
>>>>>>But then its an old rig and it might as well work properly, even
>>>>>>modified. Anyone elese tried major final tube changes in the Kenwood
>>>>>>hybrids?
>>>>>>Regards Cliff Wright ZL1BDA ex G3NIA.
>>
>>>>>i'm considering to go for the same do u hav any ckt idea as well as
>>>>>documents to create my own as of now i quiet new to this field dear
>>>>>cliff wright.....
>>
>>>>Just an update for those who might be interested.
>>>>It turns out that my reservations about valve (tube) Testers were proved
>>>>to be correct.
>>>>I used a single 6883b in the final amp and got the following very
>>>>interesting results.
>>>>Tube 1 for a dc input of 84 watts the RF output was a miserable 25 watts
>>>>measured with a calibrated Marconi RF power meter.
>>>>Tube 2 for a Dc input of 63 watts the RF power was the same, vis 25 watts.
>>>>25 Watts is the maximum power rating of the Marconi test equipment.
>>
>>>>So it is very obvious that damaged or low emission finals can have the
>>>>effect of drastically reducing the efficiency of the Power stage.
>>>>Fortunately I hope to source some more 6883B's or 6146B's this weekend.
>>
>>>>So if your transmitter gets "feeble" but the Dc input remains the same
>>>>suspect your finals. Especially if it tends to red hot anodes!!!
>>
>>>Red hot anodes still doesn't sound right, Cliff. Did you have to turn

>>>the bias pot to any unusual positions to get them to glow like that?
>>
>>>Weak emission tubes just don't draw much current, and even if I
>>>cranked the bias current up to normal while their output would be
>>>feeble I generally find their plates to be sucking current anemically
>>>when they're low emission. Now, gassy tubes, especially if there is
>>>enough grid current to upset the grid bias, that is a problem I've
>>>been having with NOS tubes lately.
>>
>>>What's the grid voltage when you're done biasing? For my "good"
>>>6146B's, it's almost always -50V in AB1. -75V or so is class C. If you
>>>are setting the bias to something closer to -30V or -40V, I think
>>>you're getting closer and closer to class A.
>>
>>>I remember spending a few weeks allowance on some known good 6146B's
>>>when I was a kid. Are known good final tubes that hard to come by down
>>>under? I'm starting to feel like I should send you some of mine just
>>>to help you in your struggles :-). Besides, I'm mostly using 807's
>>>here except for my Eico 720 these days!
>>
>>>Tim.
>>
>>Hi Tim.
>>Yes the bias is correct as are all the other electrode voltages. I think
>>that you are correct in thinking that the tubes are no longer "Vacuum
>>Tubes" but more akin to 1920's soft types.
>
>
> Actually Cliff I'm not really convinced the tubes are bad. If you
> trace out the DC plate and screen current with respect to grid voltage
> (I'm sure you're very familiar with the bias pot by now) I think you
> might convince yourself this isn't a soft tube problem.
>
> If you can momentarily change the grid bias from -50V to -20V or so
> and see the plate current go from fifteen-twenty mA up to 200mA, then
> I'm sure that the tubes aren't soft. Keep the plate current at 200mA
> for more than ten or so seconds, though, and the anodes might start
> melting, so this is purely a momentary exercise!
>
> Tim.
>

Well Folks, I got a collection of 6146B's, used unfortunately, and a
small number of S 2001's the original tubes supplied by Kenwood.
Now this is VERY interesting!
The 6146B's apparently have to be VERY closely matched or one tube draws
most of the current. However the S2001's, which seem to have a slightly
lower gain, judging by the drive level required, were much more stable
and happily produced almost 100 watts output on CW without noticeable
distress! This was despite their characteristics being about 10% different.
In my research I had come across those who had had similar experiences
with paralleled 6146B's. Now it occurs to me that the cathodes of both

finals are directly strapped together with a small resistance to ground.
In the case of mismatched tubes perhaps this could be a source of problems.
However at least it is going quite well now. The mystery is still not
quite solved, but as time permits I'll go into it further.
Regards Cliff Wright ZL1BDA ex G3NIA.

```
From 7909470831084217370
X-Google-Thread: 10c2ee,c7959662d673416d,start
X-Google-Thread: fc2a5,c7959662d673416d,start
X-Google-Thread: fc8b1,c7959662d673416d,start
X-Google-Thread: 1118be,c7959662d673416d,start
X-Google-Attributes: gid10c2ee,gidfc2a5,gidfc8b1,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e9g2000prf.googlegroups.com!not-for-
mail
From:  "shoppa@trailing-edge.com" <shoppa@trailing-edge.com>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,
sci.electronics.components
Subject: Color-matching knobs, banana jacks, wire etc.
Date: Sat, 13 Oct 2007 09:20:38 -0700
Organization: http://groups.google.com
Lines: 41
Message-ID: <1192292438.137612.89420@e9g2000prf.googlegroups.com>
NNTP-Posting-Host: 63.73.218.130
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1192292438 9138 127.0.0.1 (13 Oct 2007 16:20:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 13 Oct 2007 16:20:38 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Links (1.00pre14; Linux 2.6.13.2 i686;
80x25),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e9g2000prf.googlegroups.com; posting-host=63.73.218.130;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.antiques.radio+phono:11732
rec.radio.amateur.homebrew:1238 rec.radio.amateur.boatanchors:1385
sci.electronics.components:2869
```

I have a somewhat-odd request:

I am looking for color-matched knobs, banana jacks, binding-posts,
banana plugs, etc. Matching colored wires would be really cool too.

Having at least eight distinct colors available would be really nice.
I know that last one is difficult because I'm a very typical male who
cannot name more than four different colors off the top of his head.
But I have no problem looking at any color-coded resistor and having
the value and tolerance immediately register in big shining numbers in
my brain, so I don't think the problem is my eyes, I think it's just
that I'm male :-).

I believe that HH Smith etc. used to do stuff like this and while they're still around I don't see any colors but red and black in their catalog.

Looking in the Digikey catalog they list "Emerson"/"Johnson" as the maker of some banana plugs and jacks available in ten colors. If I could get matching colored knobs and maybe even test lead wire, I would be so so happy.

Any leads (including just "how to paint random knobs in matching colors") would be greatly appreciated.

In case nobody else has figured it out yet, this is for a super-duper bench tube tester that currently is just a bunch of stuff scattered across my bench but which in my head I could turn into one mega-super tube tester/curve tracer. Black would of course be ground, and I suppose the two filaments should be green, and maybe the cathode can be black, but I still need three other colors (plate, grid, screen) and at the moment can only name two, so seeing a catalog page with a color-coded lineup of everything would so make my vision come true!
Many decades ago I saw a picture in a magazine of what to my juvenile eyes looked like what must be the ultimate tube tester of all time, and while I do not remember the model or make I do clearly remember row after row of gleaming colored knobs and jacks. Does this description ring a bell with anyone?

Tim.

```
From 5991898307485702651
X-Google-Thread: 10c2ee,c7959662d673416d
X-Google-Thread: fc2a5,c7959662d673416d
X-Google-Thread: fc8b1,c7959662d673416d
X-Google-Thread: 1118be,c7959662d673416d
X-Google-Attributes: gid10c2ee,gidfc2a5,gidfc8b1,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.251.MISMATCH!news-out.readnews.com!transit4.readnews.com!panix!
panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,
sci.electronics.components
Subject: Re: Color-matching knobs, banana jacks, wire etc.
Date: 13 Oct 2007 13:59:24 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 32
Message-ID: <fer11s$ait$1@panix2.panix.com>
References: <1192292438.137612.89420@e9g2000prf.googlegroups.com>
NNTP-Posting-Host: panix2.panix.com
```

```
X-Trace: reader1.panix.com 1192298363 26709 166.84.1.2 (13 Oct 2007 17:59:23 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 13 Oct 2007 17:59:23 +0000 (UTC)
Xref: g2news2.google.com rec.antiques.radio+phono:11740
rec.radio.amateur.homebrew:1239 rec.radio.amateur.boatanchors:1386
sci.electronics.components:2870
```

shoppa@trailing-edge.com <shoppa@trailing-edge.com> wrote:
>
>Looking in the Digikey catalog they list "Emerson"/"Johnson" as the
>maker of some banana plugs and jacks available in ten colors. If I
>could get matching colored knobs and maybe even test lead wire, I
>would be so so happy.

I believe Kilo sells anodized knobs in a few different colors, still, and
that Pomona Electronics should have a few colors of banana jack.

>Any leads (including just "how to paint random knobs in matching
>colors") would be greatly appreciated.

Go to the auto parts store and get cans of automotive lacquer. It gives
a nice even finish on generic aluminum knobs and comes in more colors
than you can imagine.

>In case nobody else has figured it out yet, this is for a super-duper
>bench tube tester that currently is just a bunch of stuff scattered
>across my bench but which in my head I could turn into one mega-super
>tube tester/curve tracer. Black would of course be ground, and I
>suppose the two filaments should be green, and maybe the cathode can
>be black, but I still need three other colors (plate, grid, screen)
>and at the moment can only name two, so seeing a catalog page with a
>color-coded lineup of everything would so make my vision come true!

Filaments are brown. Red is plate. Grid and screen are orange and
yellow but I forget which is which. There's a RETMA standard for all
this stuff somewhere.
--scott
--
"C'est un Nagra. C'est suisse, et tres, tres precis."

```
From -3533435446443451596
X-Google-Thread: 10c2ee,c7959662d673416d
X-Google-Thread: fc2a5,c7959662d673416d
X-Google-Thread: fc8b1,c7959662d673416d
X-Google-Thread: 1118be,c7959662d673416d
X-Google-Attributes: gid10c2ee,gidfc2a5,gidfc8b1,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-
sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Jim Mueller" <wrongname@nospam.com>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,
```

sci.electronics.components
Subject: Re: Color-matching knobs, banana jacks, wire etc.
Date: Sat, 13 Oct 2007 16:57:52 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13h2ms6q1ete6ba@corp.supernews.com>
References: <1192292438.137612.89420@e9g2000prf.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3198
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 57
Xref: g2news2.google.com rec.antiques.radio+phono:11756
rec.radio.amateur.homebrew:1240 rec.radio.amateur.boatanchors:1388
sci.electronics.components:2872

AES, http://www.tubesandmore.com/, has knobs in 8 colors. Click on "Knobs" in the left hand column. In the next screen click on "Chicken Head".

I've never seen test lead wire in more than 4 colors. If you can use ordinary wire, colors shouldn't be a problem.

--
Jim Mueller wrongname@nospam.com

To get my real email address, replace wrongname with eportiz. Then replace nospam with sacbeemail.

<shoppa@trailing-edge.com> wrote in message
news:1192292438.137612.89420@e9g2000prf.googlegroups.com...
>I have a somewhat-odd request:
>
> I am looking for color-matched knobs, banana jacks, binding-posts,
> banana plugs, etc. Matching colored wires would be really cool too.
>
> Having at least eight distinct colors available would be really nice.
> I know that last one is difficult because I'm a very typical male who
> cannot name more than four different colors off the top of his head.
> But I have no problem looking at any color-coded resistor and having
> the value and tolerance immediately register in big shining numbers in
> my brain, so I don't think the problem is my eyes, I think it's just
> that I'm male :-).
>
> I believe that HH Smith etc. used to do stuff like this and while
> they're still around I don't see any colors but red and black in their
> catalog.
>
> Looking in the Digikey catalog they list "Emerson"/"Johnson" as the
> maker of some banana plugs and jacks available in ten colors. If I
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>

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>
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> and at the moment can only name two, so seeing a catalog page with a
> color-coded lineup of everything would so make my vision come true!
> Many decades ago I saw a picture in a magazine of what to my juvenile
> eyes looked like what must be the ultimate tube tester of all time,
> and while I do not remember the model or make I do clearly remember
> row after row of gleaming colored knobs and jacks. Does this
> description ring a bell with anyone?
>
> Tim.
>

From 4606235473362726656
X-Google-Thread: 10c2ee,c7959662d673416d
X-Google-Thread: fc2a5,c7959662d673416d
X-Google-Thread: fc8b1,c7959662d673416d
X-Google-Thread: 1118be,c7959662d673416d
X-Google-Attributes: gid10c2ee,gidfc2a5,gidfc8b1,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 13 Oct 2007 21:41:05 -0500
From: "gb" <w9nogbspam@arrlspamno.net>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,
sci.electronics.components
References: <1192292438.137612.89420@e9g2000prf.googlegroups.com>
<13h2ms6q1ete6ba@corp.supernews.com>
Subject: Re: Color-matching knobs, banana jacks, wire etc.
Date: Sat, 13 Oct 2007 21:40:57 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3205
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3205
X-RFC2646: Format=Flowed; Response
Message-ID: <-8udndW6NuNcHIzanZ2dnUVZ_tmhnZ2d@comcast.com>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.14.244.109
X-Trace: sv3-KRj22Fy+s/rm9/UvmEoW0KSeoZbVE2TGZ2sD8HPkS1plFrJl5lH+j8Y2HyrJICz/
hHdMOc2pK5JGVfA!

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o5PLoAHyRkI8KmFRVQBUpDq3g8mL5mh78Acn5Frr3Aw0GKZUhHOSMiwT9cVik9mRstnZrUbJ759R!
Ut7OtirKKAjFeTmlOgW+ZMHuyav/1Q==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.antiques.radio+phono:11761
rec.radio.amateur.homebrew:1241 rec.radio.amateur.boatanchors:1389
sci.electronics.components:2873
```

"Jim Mueller" <wrongname@nospam.com> wrote in message
news:13h2ms6q1ete6ba@corp.supernews.com...

> AES, http://www.tubesandmore.com/, has knobs in 8 colors. Click on
> "Knobs" in the left hand column. In the next screen click on "Chicken
> Head".
>
> I've never seen test lead wire in more than 4 colors. If you can use
> ordinary wire, colors shouldn't be a problem.

I have seen test wire in more than 4 colors. It is actually in the Belden catalog I have -- BUT the minimum order (in feet/spool) for any color other than red or black is high (at least 1000 feet, as I remember)

It does look cool when properly set-up. Old EF Johnson and HH Smith banana jacks did have several colors. Needs any in blue? I have several panel mount banana jacks in that color.

gb

```
From 1787879530983228245
X-Google-Thread: 10c2ee,c7959662d673416d
X-Google-Thread: fc2a5,c7959662d673416d
X-Google-Thread: fc8b1,c7959662d673416d
X-Google-Thread: 1118be,c7959662d673416d
X-Google-Attributes: gid10c2ee,gidfc2a5,gidfc8b1,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.194.251.MISMATCH!news-out.readnews.com!transit4.readnews.com!news-
out.octanews.net!indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Color-matching knobs, banana jacks, wire etc.
Date: Sun, 14 Oct 2007 02:20:47 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.10.14.09.20.45.464131@localhost.localdomain>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,
sci.electronics.components
```

```
References: <1192292438.137612.89420@e9g2000prf.googlegroups.com>
Followup-To: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 9
Organization: Octanews
NNTP-Posting-Date: 14 Oct 2007 04:20:50 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news2.google.com rec.antiques.radio+phono:11766
rec.radio.amateur.homebrew:1242 rec.radio.amateur.boatanchors:1390
sci.electronics.components:2875

Hi,

Try Small Bear:
http://www.smallbearelec.com/Categories.bok?
category=Knobs&searchpath=502393&start=25&total=30

Cheers!
--
Gregg




From -1724485843496556584
X-Google-Thread: 10c2ee,c7959662d673416d
X-Google-Thread: fc2a5,c7959662d673416d
X-Google-Thread: fc8b1,c7959662d673416d
X-Google-Thread: 1118be,c7959662d673416d
X-Google-Attributes: gid10c2ee,gidfc2a5,gidfc8b1,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns14feed!worldnet.att.net!199.45.49.37!cyclone1.gnilink.net!
spamkiller2.gnilink.net!gnilink.net!trndny04.POSTED!d5ccce6b!not-for-mail
From: Ecnerwal <LawrenceSMITH@SOuthernVERmont.NyET>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,
sci.electronics.components
Subject: Re: Color-matching knobs, banana jacks, wire etc.
Organization: disorganized
References: <1192292438.137612.89420@e9g2000prf.googlegroups.com>
User-Agent: MT-NewsWatcher/3.5.2 (PPC Mac OS X)
Message-ID: <LawrenceSMITH-A1A4E8.10433514102007@news.verizon.net>
Lines: 22
Date: Sun, 14 Oct 2007 14:43:35 GMT
NNTP-Posting-Host: 151.203.154.253
X-Complaints-To: abuse@verizon.net
X-Trace: trndny04 1192373015 151.203.154.253 (Sun, 14 Oct 2007 10:43:35 EDT)
NNTP-Posting-Date: Sun, 14 Oct 2007 10:43:35 EDT
Xref: g2news2.google.com rec.antiques.radio+phono:11771
rec.radio.amateur.homebrew:1243 rec.radio.amateur.boatanchors:1394
sci.electronics.components:2877
```

In article <1192292438.137612.89420@e9g2000prf.googlegroups.com>,
"shoppa@trailing-edge.com" <shoppa@trailing-edge.com> wrote:

> Many decades ago I saw a picture in a magazine of what to my juvenile
> eyes looked like what must be the ultimate tube tester of all time,
> and while I do not remember the model or make I do clearly remember
> row after row of gleaming colored knobs and jacks. Does this
> description ring a bell with anyone?

Not really (the one at the local Radio Shack (way in the back in 1970-something when I was getting an old Hallicrafters up and running) was more boring - blue and white with brown sockets and black knobs, as I recall), but I suspect that certain auction sites probably have exactly the thing you were looking at available from time to time. All the other old junque shows up there.

Not to deny you the joy of building, or anything like that - but if it was made, there are probably examples out ion the wild to buy, if you look for them.

--
Cats, coffee, chocolate...vices to live by

```
From -6442716714373091707
X-Google-Thread: 10c2ee,c7959662d673416d
X-Google-Thread: fc2a5,c7959662d673416d
X-Google-Thread: fc8b1,c7959662d673416d
X-Google-Thread: 1118be,c7959662d673416d
X-Google-Attributes: gid10c2ee,gidfc2a5,gidfc8b1,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q5g2000prf.googlegroups.com!not-for-
mail
From:  "shoppa@trailing-edge.com" <shoppa@trailing-edge.com>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,
sci.electronics.components
Subject: Re: Color-matching knobs, banana jacks, wire etc.
Date: Mon, 15 Oct 2007 06:40:53 -0700
Organization: http://groups.google.com
Lines: 44
Message-ID: <1192455653.696319.90710@q5g2000prf.googlegroups.com>
References: <1192292438.137612.89420@e9g2000prf.googlegroups.com>
   <LawrenceSMITH-A1A4E8.10433514102007@news.verizon.net>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1192455654 1183 127.0.0.1 (15 Oct 2007 13:40:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 15 Oct 2007 13:40:54 +0000 (UTC)
In-Reply-To: <LawrenceSMITH-A1A4E8.10433514102007@news.verizon.net>
User-Agent: G2/1.0
```

X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q5g2000prf.googlegroups.com; posting-host=170.121.15.35; posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.antiques.radio+phono:11842 rec.radio.amateur.homebrew:1244 rec.radio.amateur.boatanchors:1399 sci.electronics.components:2885

On Oct 14, 10:43 am, Ecnerwal <LawrenceSM...@SOuthernVERmont.NyET> wrote:

> In article <1192292438.137612.89...@e9g2000prf.googlegroups.com>,
>
> "sho...@trailing-edge.com" <sho...@trailing-edge.com> wrote:
>
> > Many decades ago I saw a picture in a magazine of what to my juvenile eyes looked like what must be the ultimate tube tester of all time, and while I do not remember the model or make I do clearly remember row after row of gleaming colored knobs and jacks. Does this description ring a bell with anyone?
>
> Not really (the one at the local Radio Shack (way in the back in 1970-something when I was getting an old Hallicrafters up and running) was more boring - blue and white with brown sockets and black knobs, as I recall), but I suspect that certain auction sites probably have exactly the thing you were looking at available from time to time. All the other old junque shows up there.
>
> Not to deny you the joy of building, or anything like that - but if it was made, there are probably examples out ion the wild to buy, if you look for them.

In fact, following the lead of Alan Douglas, I think in my head the unit I had seen in a picture was the Weston CA-1630. Nice pic here:

http://www.tubedepot.com/tt-ca-1630.html

At circa $5000 I think I'll have to pass, but it's a beaut.

I think in my mind I want even more color matching than in the original - I just see black and red binding posts there, in my head the posts should match the knob should match the element. So it looks like the decades have elaborated the original, to the point where I desire something more than the original :-).

Like Scott Dorsey suggested, probably the way for me to go is to get 5 or 6 or 7 different color banana jacks and paint the knobs to match, as it seems increasingly unlikely I'll get much match in "raw" knob color, but still thanks to the others who posted about the multi-color chickenheads available from AES (I had actually bought them in the past!) and the knobs from Small Bear.

Tim.

```
From 2322390986827435850
X-Google-Thread: 10c2ee,c7959662d673416d
X-Google-Thread: fc2a5,c7959662d673416d
X-Google-Thread: fc8b1,c7959662d673416d
X-Google-Thread: 1118be,c7959662d673416d
X-Google-Attributes: gid10c2ee,gidfc2a5,gidfc8b1,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!out01a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx01.iad01.newshosting.com!newshosting.com!novia!news-out.readnews.com!
transit4.readnews.com!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,
sci.electronics.components
Subject: Re: Color-matching knobs, banana jacks, wire etc.
Date: 15 Oct 2007 09:47:20 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 14
Message-ID: <fevr18$if1$1@panix2.panix.com>
References: <1192292438.137612.89420@e9g2000prf.googlegroups.com> <LawrenceSMITH-
A1A4E8.10433514102007@news.verizon.net>
<1192455653.696319.90710@q5g2000prf.googlegroups.com>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1192456040 15805 166.84.1.2 (15 Oct 2007 13:47:20 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 15 Oct 2007 13:47:20 +0000 (UTC)
Xref: g2news2.google.com rec.antiques.radio+phono:11844
rec.radio.amateur.homebrew:1245 rec.radio.amateur.boatanchors:1400
sci.electronics.components:2886

shoppa@trailing-edge.com <shoppa@trailing-edge.com> wrote:
>
>Like Scott Dorsey suggested, probably the way for me to go is to get 5
>or 6 or 7 different color banana jacks and paint the knobs to match,
>as it seems increasingly unlikely I'll get much match in "raw" knob
>color, but still thanks to the others who posted about the multi-color
>chickenheads available from AES (I had actually bought them in the
>past!) and the knobs from Small Bear.

Pomona Electronics plugs!  Nine colors available!  Stocked by Allied!
http://www.pomonaelectronics.com/pdf/d1325-5230-5406-6546_100.pdf
--scott
--
"C'est un Nagra.  C'est suisse, et tres, tres precis."


From -6782156044329496769
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
```

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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r29g2000hsg.googlegroups.com!not-for-
mail
From:  Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Mon, 24 Sep 2007 04:38:02 -0700
Organization: http://groups.google.com
Lines: 11
Message-ID: <1190633882.923389.279770@r29g2000hsg.googlegroups.com>
References: <1190206510.490666.56380@y42g2000hsy.googlegroups.com>
   <3fk3f353f85ilbilajm43r5asv4qooj9ta@4ax.com>
   <1190282073.743844.219280@22g2000hsm.googlegroups.com>
   <k5k5f31e17jd2blt19ofcp2piuv3vh1o7s@4ax.com>
   <1190333303.832852.219920@50g2000hsm.googlegroups.com>
   <tue6f3pf6m0c8gnl5lmgj1n8gikakceucd@4ax.com>
   <1190474806.897421.57770@57g2000hsv.googlegroups.com>
   <h5ccf3lp35k2v547gqmjhthrs1d71ep8km@4ax.com>
   <1190552762.386910.283020@w3g2000hsg.googlegroups.com>
   <e41ff3t3om9477tdp41btn41vc4lsuk4fd@4ax.com>
   <1190627567.146982.197680@d55g2000hsg.googlegroups.com>
   <9bmdnTZHGYCqA2rbRVnyggA@pipex.net>
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Mime-Version: 1.0
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X-Trace: posting.google.com 1190633883 23956 127.0.0.1 (24 Sep 2007 11:38:03 GMT)
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NNTP-Posting-Date: Mon, 24 Sep 2007 11:38:03 +0000 (UTC)
In-Reply-To: <9bmdnTZHGYCqA2rbRVnyggA@pipex.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: r29g2000hsg.googlegroups.com; posting-host=216.203.30.4;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.cb:3917 rec.radio.amateur.equipment:988
rec.radio.amateur.homebrew:1095
```

On Sep 24, 6:25 am, Highland Ham <abcgm0csz.kn6wh...@dsl.pipex.com>
wrote:
> What a totally useless dialogue on a topic not relevant to this NG
> Would you please find another outlet for your egos.
> Frank   GM0CSZ / KN6WH

Hmmm... a discussion about the biasing of an RF amplifier is not
relevant to this NG huh?
Find another outlet for your complaints... lol

From -6737093150005608629

X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.germany.com!feed.xsnews.nl!
border-1.ams.xsnews.nl!sn-xt-ams-06!sn-xt-ams-08!sn-post-ams-02!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Mon, 24 Sep 2007 09:05:00 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13ffh0b9tcaq80f@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <1190206510.490666.56380@y42g2000hsy.googlegroups.com>
<3fk3f353f85ilbilajm43r5asv4qooj9ta@4ax.com>
<1190282073.743844.219280@22g2000hsm.googlegroups.com>
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<1190474806.897421.57770@57g2000hsv.googlegroups.com>
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<e41ff3t3om9477tdp41btn41vc4lsuk4fd@4ax.com>
<1190627567.146982.197680@d55g2000hsg.googlegroups.com>
<9bmdnTZHGYCqA2rbRVnyggA@pipex.net>
<1190633882.923389.279770@r29g2000hsg.googlegroups.com>
In-Reply-To: <1190633882.923389.279770@r29g2000hsg.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 21
Xref: g2news2.google.com rec.radio.cb:3920 rec.radio.amateur.equipment:989
rec.radio.amateur.homebrew:1096

Telstar Electronics wrote:

> On Sep 24, 6:25 am, Highland Ham <abcgm0csz.kn6wh...@dsl.pipex.com>
> wrote:
>
>>What a totally useless dialogue on a topic not relevant to this NG
>>Would you please find another outlet for your egos.
>>Frank   GM0CSZ / KN6WH
>
>
>
> Hmmm... a discussion about the biasing of an RF amplifier is not
> relevant to this NG huh?
> Find another outlet for your complaints... lol

>
Please quit cross posting this to 'rec.radio.amateur.homebrew';
this _clearly_ is not a homebrewing discussion.

Regards,

Michael

```
From -7385303477694495894
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!feeder.news-service.com!newsfeed.freenet.de!
news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Mon, 24 Sep 2007 08:34:28 -0700
Organization: albasani.net
Lines: 21
Message-ID: <fd8le4$vbb$1@news.albasani.net>
References: <1190206510.490666.56380@y42g2000hsy.googlegroups.com>
<3fk3f353f85ilbilajm43r5asv4qooj9ta@4ax.com>
<1190282073.743844.219280@22g2000hsm.googlegroups.com>
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<1190474806.897421.57770@57g2000hsv.googlegroups.com>
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<1190627567.146982.197680@d55g2000hsg.googlegroups.com>
<9bmdnTZHGYCqA2rbRVnyggA@pipex.net>
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<13ffh0b9tcaq80f@corp.supernews.com>
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X-Trace: news.albasani.net
ha0jWazuq3DK0HVIdhgLCflVW9WNFPvdn30CEEM6ePHRCexmF+u23zcd1b2CTRj+TVEd+YHz9pnBLLEy4e
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X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Mon, 24 Sep 2007 15:34:29 +0000 (UTC)
X-User-ID: nm096dq1nII9WS1aiEA/RdiqS01cJCWCpF4+A8RN2rQ=
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6sIevnp1UKhiHKcO+g==
Xref: g2news2.google.com rec.radio.cb:3922 rec.radio.amateur.equipment:990
rec.radio.amateur.homebrew:1097

msg wrote:

 > ...
>> Hmmm... a discussion about the biasing of an RF amplifier is not
>> relevant to this NG huh?
>> Find another outlet for your complaints... lol
>>
> Please quit cross posting this to 'rec.radio.amateur.homebrew';
> this _clearly_ is not a homebrewing discussion.
>
> Regards,
>
> Michael

Strange!

Have you guys now taken up knitting and crocheting?

Hmmm.  I liked it better when you actually discussed electronic circuits!

JS



From 5431338359275405769
X-Google-Thread: fc2a5,72e3e2acf3272749
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r29g2000hsg.googlegroups.com!not-for-
mail
From:  K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Coil Calculations?
Date: Mon, 24 Sep 2007 10:15:07 -0700
Organization: http://groups.google.com
Lines: 42
Message-ID: <1190654107.613503.267400@r29g2000hsg.googlegroups.com>
References: <1190438714.690477.28150@57g2000hsv.googlegroups.com>
   <C%vJi.78182$Lu.40277@bignews8.bellsouth.net>
   <fd62vu$mt0$1@theodyn.ncf.ca>
   <1190611275.800150.19440@d55g2000hsg.googlegroups.com>
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NNTP-Posting-Date: Mon, 24 Sep 2007 17:15:07 +0000 (UTC)
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X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.7)
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Gecko/20070914 Firefox/2.0.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: r29g2000hsg.googlegroups.com; posting-host=192.25.142.225;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1098

On Sep 23, 10:21 pm, Clayton <Evans8...@aol.com> wrote:
...
> Can any of you suggest a good book on coils,that includes theory,math
> and all that good stuff?

Google "Grover Inductance Calculations" and you'll get loads of refs and comments on Dr. Grover's book on the subject (as well as places to buy it). Are you sure you really want to know THAT much about them?? :-) If your library has the book or can get it, it's an interesting one to have a look into. For coils (or for that matter straight wires) at RF, you need to start considering things like skin effect (where the current flows mainly at the surface of conductors) and proximity effect (where the fields from a nearby wire affect where current flows in the wire under consideration -- like how adjacent turns of a coil affect one another).

A more reasonable place to start might be a text for a first college course in electricity and magnetism. You'll learn enough about inductance to have a very decent understanding of it, and if you explore other topics there, you'll have the tools to understand a lot more about RF circuits and fields in general.

Finally, nothing replaces actually doing things with coils (and other parts), getting them to perform some function you want. I've done quite a bit of work with coils over the years, and I'm still learning. Last week, I spent some time working on a filter that uses several coils of approximately 100 nanohenries each. I'm looking for 100dB and more out-of-band attenuation. I had to get very detailed in my computer model to have it correspond reasonably well with measured performance, including the "parasitic" effects of stray inductance and capacitance--more so than I initially expected. In a lot of other situations I deal with, those strays aren't nearly so important. That's the sort of thing you'll probably learn better by "doing" than by "reading."

Cheers,
Tom

Cheers,
Tom

From -4837951994009756478
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943

X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
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newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-03!sn-xt-sjc-01!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: Frank Gilliland <w�renut@NOSPAM�cehouse.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Mon, 24 Sep 2007 12:42:57 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <n94gf3lt0ic06brupousmnb15lea2cgk5b@4ax.com>
References: <1190282073.743844.219280@22g2000hsm.googlegroups.com>
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X-Newsreader: Forte Free Agent 1.93/16.576 English (American)
MIME-Version: 1.0
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Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@supernews.com
Lines: 21
Xref: g2news2.google.com rec.radio.cb:3926 rec.radio.amateur.equipment:991
rec.radio.amateur.homebrew:1099

On Mon, 24 Sep 2007 02:52:47 -0700, Telspam Electronics
<briangriffey@sbcglobal.net> wrote in
<1190627567.146982.197680@d55g2000hsg.googlegroups.com>:

>On Sep 24, 4:35 am, Frank Gilliland <w�renut@NOSPAM�cehouse.net>
>wrote:
>> I checked the page again thinking maybe it changed, but I still don't
>> see two diodes. Just one. What two diodes are -you- seeing, Brian?- Hide quoted text -
>
>You're kidding me right?... the external tracking diode (one) and the
>base-emitter diode of the power transistor (two). Got it?

So you claim it doesn't work because one diode will "hog" the current?
Well, that's the point! D1 "hogs" the current and establishes a fixed
voltage for the base of TR1!!! But alas, it only works if your ground
plane is 9 square feet.......

So where's that schematic, Brian?

```
From 3397328890121641298
X-Google-Thread: 108122,a4a69134e4f844d2,start
X-Google-Thread: fc2a5,a4a69134e4f844d2,start
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feed.cgocable.net!
read1.cgocable.net.POSTED!53ab2750!not-for-mail
From: "Norm VE3CZI" <ve3czi@arrl.net>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.swap
Subject: FS: Amateur & Commercial & Test Equipment  Service Manuals
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
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Organization: Cogeco Cable
Xref: g2news2.google.com rec.radio.amateur.equipment:992
rec.radio.amateur.homebrew:1100 rec.radio.swap:1277

Have a quantity of  Test Equipment and Radio Communications Service Manuals,
both Commercial & Amateur
Most of them are in Like New Condition.
Prices are reasonable...mailing may more than the manuals..depending where
you live!

Please check my site:   www.rodemi.com    for what is available.
Click on the  MANUALS  Heading.
I am updating the site as time allows.
> Just added a MAXON List...more to come <
I recently retired from the Commercial 2-way radio business and would like
these useful manuals to find a good home.

Thanks for looking....Norm VE3CZI
Email me Directly:  <insert Call Sign> at arrl.net  ....<call sign> is
ve3czi




From -8006743689464440056
X-Google-Thread: f68a8,959361255592b042,start
X-Google-Thread: fc2a5,959361255592b042,start
X-Google-Thread: 107ada,959361255592b042,start
```

X-Google-Thread: 10e8ad,959361255592b042,start
X-Google-Thread: f64c6,959361255592b042,start
X-Google-Attributes: gidf68a8,gidfc2a5,gid107ada,gid10e8ad,gidf64c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder3.cambrium.nl!feeder1.cambrium.nl!
feed.tweaknews.nl!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-11!sn-xt-ams-05!
sn-ams!sn-feed-ams-02!sn-post-ams-02!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: "Randy" <REMOVErcss_97@hotmail.com>
Newsgroups:
aus.radio.amateur.digital,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.ra
dio.amateur.space,uk.radio.amateur
Subject: Kenwood TKR-750 Type K Repeater
Date: Mon, 24 Sep 2007 21:19:42 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13fgvig7ni77l8f@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 16
Xref: g2news2.google.com aus.radio.amateur.digital:22
rec.radio.amateur.homebrew:1101 rec.radio.amateur.misc:1998
rec.radio.amateur.space:206 uk.radio.amateur:15741

I was just wondering if anyone has one, or knows of anyone using a
Kenwood TKR-750 Type K2 Repeater with a Cat 400 Controller.

--
73's

Randy Molyneaux (ve5rjm)
Canora, Saskatchewan; CANADA
URL: http://parc.sasktelwebsite.net
Email: ve5rjm@hotmail.com
NODE # 1710
EchoLink # 48431
Ph. (306) 563-7150

From -8116538662596033645
X-Google-Thread: fc2a5,8369463be39ccb40
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 24 Sep 2007 23:05:33 -0500

Date: Tue, 25 Sep 2007 16:05:36 +1200
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820 problems.
References: <46f25b95$1@clear.net.nz> <G5GdnVXnbbQuAWrbnZ2dneKdnZydnZ2d@pipex.net>
In-Reply-To: <G5GdnVXnbbQuAWrbnZ2dneKdnZydnZ2d@pipex.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
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X-Antivirus: avast! (VPS 000776-1, 24/09/2007), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-17-11.dsl.telstraclear.net
Message-ID: <46f8890a$1@clear.net.nz>
X-Original-Trace: 25 Sep 2007 16:05:30 +1200, 121-72-17-11.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints abuse@clear.net.nz
Lines: 62
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-Trace: sv3-P1tyF7eezqWlkFxmhhDBnsIqvXwHmx1Q4NHNbPXq1hiyVO4QZwf3AaWv93fXa44UazPfTnwecnY0dO0!EqK413qHHgZukcUg8CXPByiL05E33A3Tgp63oQY/Y2PvXEGK3TfT5rzSAw==
X-Complaints-To: Complaints to abuse@clear.net.nz
X-DMCA-Complaints-To: Complaints to abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1102

Highland Ham wrote:
>> Am still going over the old TS-820 and found another problem re the
>> meter. It is important when replacing the meter to check the condition
>> of the multiplying resistors on the underchassis "HT" board and adjust
>> to suit the actual sensitivity of the meter.
>> Mine was reading 730 volts off load for final anode voltage but my
>> trusty old Avometer tells me that it was actually 1,040 volts.
>> Now this is WAY above the recommended anode voltage for even a 6146B
>> but since the tansformer secondary is 800 volts its probably correct.
>> I've now got the voltage reading correctly on the meter, but I'm now
>> very convinced that the reason for flashover in some 6146's is simply
>> excessive HT voltage. The finals are running in very dangerous
>> territory. Just a bit of SWR then Poof!!!
>> I'm now considering modifying the case and using a TT21 as a final.
>> These can stand the voltage with ease, are very easy to neutralise
>> and can give a good 65% efficiency in AB1 up to 30 Mhz. Will give me
>> around 80 watts out I reckon.
>> Just that my final box will be a bit taller and the old case will need
>> a bit of chopping about.
>> But then its an old rig and it might as well work properly, even

>> modified. Anyone elese tried major final tube changes in the Kenwood
>> hybrids?
>
> ========================
> Cliff , Does the TS-820 HV transformer have just 1 HV output or is there
> also a lower voltage tapping.
> I recall that the early Yaesu FT400/500 series (valve)transceivers had a
> transformer with 600 and 850 V tappings.
> The TV line sweep valves (tubes) in the PA worked well with the lower
> voltage .....but 850V was toooo much especially when you used the PI
> tank for matching the antenna (no external matching unit)
> I used an old 1970 era FT-400 that way as my first TRX from 1985 - 1989.
>
> Frank   GM0CSZ / KN6WH

Hi Frank!
You know some years ago I had a similar Yaesu rig. I actually replaced
the sweep valves with 6146B's because of just the problem you describe.
When it was converted I had to pull all but one plate off the
neutralising cap beacause the interelectrode capacity of the "real"
TX valves was so much lower!!! Sold it when I got my more "advanced"
Kenwood a few years back.
However the 820S only has an 800 volt secondary with a bridge rectifier
and about 100 uF of smoothing caps.
I have discovered that valve testers are quite useless for testing
powerful tubes like 6146's and larger. They simply don't have a high
enough supply voltage built in and valves that test Ok can be a bit
"soft" and flashover at once with 1KV on the Anode.
However I hope to get some more 6146B's or their 12 volt version
the 6883B at a junk sale coming up soon. If not I'll look out for
another TT21 and modify the final box to take it.
At least then I'll be loafing along with 90 watts anode dissapation.
I have a "soft spot for the TT21 as I used a single one back in the 70's
to get DXCC and WAC. That worked with 1KV on the anode fine for years
and was dead stable!

One last point about Jap transceivers. They never seem to monitor grid
current. My home brew final did, and it was by far the best way to be
sure that your final was working properly in class AB1. In the 820s
there is even a spare switch wafer so I'm thinking of installing it
using the existing meter!
Regards
Cliff Wright ZL1BDA ex G3NIA.

From -2825785492611999551
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
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X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!d55g2000hsg.googlegroups.com!not-for-mail
From: Telstar Electronics <briangriffey@sbcglobal.net>

Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Tue, 25 Sep 2007 05:43:22 -0700
Organization: http://groups.google.com
Lines: 18
Message-ID: <1190724202.475589.288030@d55g2000hsg.googlegroups.com>
References: <1190282073.743844.219280@22g2000hsm.googlegroups.com>
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Content-Transfer-Encoding: quoted-printable
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 25 Sep 2007 12:43:22 +0000 (UTC)
In-Reply-To: <n94gf3lt0ic06brupousmnb15lea2cgk5b@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d55g2000hsg.googlegroups.com; posting-host=216.203.30.4;
posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.cb:4012 rec.radio.amateur.equipment:995 rec.radio.amateur.homebrew:1103

On Sep 24, 2:42 pm, Frank Gilliland <w=EFrenut@NOSPAM=EFcehouse.net>
wrote:
> So you claim it doesn't work because one diode will "hog" the current?
> Well, that's the point! D1 "hogs" the current and establishes a fixed
> voltage for the base of TR1!!!

As usual Frank you are missing the important point here. That point being that you can't simply parallel two diodes... and have them share currents. This would have to be done in order for any tracking between the two. The problem is that one diode will always turn on before the other... and take all current. Now I ask you... where is the sharing/ tracking in that scenario? The answer is: there is no sharing/ tracking... because one diode with the lowest drop will hog the entire current... and the other diode will be off. this is why the gentleman on the web page link that YOU provided says it that scheme works like crap. He's absolutely right!
www.telstar-electronics.com

```
From -3071505584594013190
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!sn-xt-sjc-03!sn-xt-
sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Frank Gilliland <w�renut@NOSPAM�cehouse.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Tue, 25 Sep 2007 06:42:13 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <4e3if35g91qv880m9fauokf8knuagpmpqr@4ax.com>
References: <1190333303.832852.219920@50g2000hsm.googlegroups.com>
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<h5ccf3lp35k2v547gqmjhthrs1d71ep8km@4ax.com>
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MIME-Version: 1.0
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Content-Transfer-Encoding: 8bit
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Lines: 35
Xref: g2news2.google.com rec.radio.cb:4013 rec.radio.amateur.equipment:996
rec.radio.amateur.homebrew:1104

On Tue, 25 Sep 2007 05:43:22 -0700, Telspam Electronics
<briangriffey@sbcglobal.net> wrote in
<1190724202.475589.288030@d55g2000hsg.googlegroups.com>:

>On Sep 24, 2:42 pm, Frank Gilliland <w�renut@NOSPAM�cehouse.net>
>wrote:
>> So you claim it doesn't work because one diode will "hog" the current?
>> Well, that's the point! D1 "hogs" the current and establishes a fixed
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>
>As usual Frank you are missing the important point here. That point
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>currents. This would have to be done in order for any tracking between
>the two. The problem is that one diode will always turn on before the
>other... and take all current. Now I ask you... where is the sharing/
>tracking in that scenario? The answer is: there is no sharing/
>tracking... because one diode with the lowest drop will hog the entire
>current... and the other diode will be off.


Amazing. Two major bungles within one month. First you couldn't
```

recognize a simple voltage multiplier, and now you show that you can't even understand the basic principle of diode biasing of a transistor.

> this is why the gentleman
>on the web page link that YOU provided says it that scheme works like
>crap. He's absolutely right!

Funny..... he gives a different explanation.

BTW, where's that schematic, Brian?

```
From 3476552227419489855
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!19g2000hsx.googlegroups.com!not-for-
mail
From:  Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Tue, 25 Sep 2007 07:08:51 -0700
Organization: http://groups.google.com
Lines: 11
Message-ID: <1190729331.333021.97310@19g2000hsx.googlegroups.com>
References: <1190333303.832852.219920@50g2000hsm.googlegroups.com>
   <tue6f3pf6m0c8gnl5lmgj1n8gikakceucd@4ax.com>
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NNTP-Posting-Date: Tue, 25 Sep 2007 14:08:51 +0000 (UTC)
In-Reply-To: <4e3if35g91qv880m9fauokf8knuagpmpqr@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
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Injection-Info: 19g2000hsx.googlegroups.com; posting-host=216.203.30.4;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.cb:4018 rec.radio.amateur.equipment:998
rec.radio.amateur.homebrew:1105

On Sep 25, 8:42 am, Frank Gilliland <w=EFrenut@NOSPAM=EFcehouse.net>
wrote:
> Amazing. Two major bungles within one month. First you couldn't
> recognize a simple voltage multiplier, and now you show that you can't
> even understand the basic principle of diode biasing of a transistor.

Frank, again you resort to degrading statements in an attempt to shift
the focus and avoid the topic.
You have suceeded... end of conversation with you.
www.telstar-electronics.com

From 4110537388016402661
X-Google-Thread: fc2a5,a99085f10ad31b01,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: Has anyone ever removed an antenna tuner from a radio and...
Date: 25 Sep 2007 09:14:07 -0500
Organization: Kansas State University
Lines: 17
Message-ID: <fdb53f$nf2@unix1.cc.ksu.edu>
NNTP-Posting-Host: unix1.cc.ksu.edu
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X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1106

This may not seem like a "homebrew" question, but it is!

I have a Kenwood 440SAT which is failing, but the AT (Antenna Tuner)
is still working. Since the 440SAT can (could) also be purchased as a
440S (i.e., without the AT), the AT may be a stand-alone "module", and
I'd like to remove it and package it separately to use with a new radio.

I also own a nice crossed-needle VSWR meter, so I don't have to depend
on the one in the 440.

Any suggestions?

--
--Myron A. Calhoun.
Five boxes preserve our freedoms: soap, ballot, witness, jury, and cartridge

NRA Life Member & Certified Instructor for Rifle, Pistol, & Home Firearm Safety
Also Certified Instructor for the Kansas Concealed-Carry Handgun (CCH) license

```
From -5529901658951214319
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
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sjc-02!sn-xt-sjc-06!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!
not-for-mail
From: james <george@washington.edu>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Tue, 25 Sep 2007 10:37:33 -0400
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <707if3hnfqh0aih7c7sg1n3mav2p4o81hl@4ax.com>
Reply-To: beerkeg@budu.edu
References: <1190333303.832852.219920@50g2000hsm.googlegroups.com>
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<1190724202.475589.288030@d55g2000hsg.googlegroups.com>
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MIME-Version: 1.0
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Content-Transfer-Encoding: 8bit
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Lines: 29
Xref: g2news2.google.com rec.radio.cb:4020 rec.radio.amateur.equipment:999
rec.radio.amateur.homebrew:1107
```

On Tue, 25 Sep 2007 05:43:22 -0700, Telstar Electronics
<briangriffey@sbcglobal.net> wrote:

|On Sep 24, 2:42 pm, Frank Gilliland <w�renut@NOSPAM�cehouse.net>
|wrote:
|> So you claim it doesn't work because one diode will "hog" the current?
|> Well, that's the point! D1 "hogs" the current and establishes a fixed
|> voltage for the base of TR1!!!
|
|As usual Frank you are missing the important point here. That point
|being that you can't simply parallel two diodes... and have them share
|currents. This would have to be done in order for any tracking between
|the two. The problem is that one diode will always turn on before the
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|tracking in that scenario? The answer is: there is no sharing/

|tracking... because one diode with the lowest drop will hog the entire
|current... and the other diode will be off. this is why the gentleman
|on the web page link that YOU provided says it that scheme works like
|crap. He's absolutely right!
|www.telstar-electronics.com
|
|-------------

Bovine excrement. Ever heard of equalizing of current through a series resistance? Often called a ballast resistor. Used quite often in power transistors where there are several base/emiter pn jumctions.

james

From 2442068825411848402
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
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From: james <george@washington.edu>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Tue, 25 Sep 2007 10:40:01 -0400
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <ea7if3t4a78kvfmdv69mvilbv8inmppdja@4ax.com>
Reply-To: beerkeg@budu.edu
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<h5ccf3lp35k2v547gqmjhthrs1d71ep8km@4ax.com>
<1190552762.386910.283020@w3g2000hsg.googlegroups.com>
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<1190627567.146982.197680@d55g2000hsg.googlegroups.com>
<n94gf3lt0ic06brupousmnb15lea2cgk5b@4ax.com>
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<4e3if35g91qv880m9fauokf8knuagpmpqr@4ax.com>
<1190729331.333021.97310@19g2000hsx.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@supernews.com
Lines: 21
Xref: g2news2.google.com rec.radio.cb:4021 rec.radio.amateur.equipment:1000 rec.radio.amateur.homebrew:1108

On Tue, 25 Sep 2007 07:08:51 -0700, Telstar Electronics
<briangriffey@sbcglobal.net> wrote:

|On Sep 25, 8:42 am, Frank Gilliland <w�renut@NOSPAM�cehouse.net>
|wrote:
|> Amazing. Two major bungles within one month. First you couldn't
|> recognize a simple voltage multiplier, and now you show that you can't
|> even understand the basic principle of diode biasing of a transistor.
|
|Frank, again you resort to degrading statements in an attempt to shift
|the focus and avoid the topic.
|You have suceeded... end of conversation with you.
|www.telstar-electronics.com
|-------------

No Brian

He is quite on topic. You are failing to comprehend a very simple
basic understanding of the biasing of a transistor.

james

```
From 6125480256119956037
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!news.glorb.com!newsgate.cistron.nl!
xs4all!feeder.news-service.com!feeder1.cambrium.nl!feed.tweaknews.nl!
138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-08!sn-ams!sn-feed-ams-01!sn-post-
ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Frank Gilliland <w�renut@NOSPAM�cehouse.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Tue, 25 Sep 2007 07:54:32 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <ap6if3tfmso8a6a1s010j6b8qdhq1huht7@4ax.com>
References: <1190474806.897421.57770@57g2000hsv.googlegroups.com>
<h5ccf3lp35k2v547gqmjhthrs1d71ep8km@4ax.com>
<1190552762.386910.283020@w3g2000hsg.googlegroups.com>
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<1190627567.146982.197680@d55g2000hsg.googlegroups.com>
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<1190724202.475589.288030@d55g2000hsg.googlegroups.com>
<4e3if35g91qv880m9fauokf8knuagpmpqr@4ax.com>
<1190729331.333021.97310@19g2000hsx.googlegroups.com>
X-Newsreader: Forte Free Agent 1.93/16.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@supernews.com
Lines: 34
Xref: g2news2.google.com rec.radio.cb:4022 rec.radio.amateur.equipment:1003
rec.radio.amateur.homebrew:1109
```

```
On Tue, 25 Sep 2007 07:08:51 -0700, Telspam Electronics
<briangriffey@sbcglobal.net> wrote in
<1190729331.333021.97310@19g2000hsx.googlegroups.com>:

>On Sep 25, 8:42 am, Frank Gilliland <w�renut@NOSPAM�cehouse.net>
>wrote:
>> Amazing. Two major bungles within one month. First you couldn't
>> recognize a simple voltage multiplier, and now you show that you can't
>> even understand the basic principle of diode biasing of a transistor.
>
>Frank, again you resort to degrading statements in an attempt to shift
>the focus and avoid the topic.


The topic is the concept of using a diode to bias a transistor, a
concept understood by any first-year electronics student.

But not you.

The BE junction stays at or above quiescient current BECAUSE the diode
is hogging the current. It even says that in the article (that you
obviously didn't understand).

Two diodes..... sheesh..... I'll bet you've never seen a Vbe curve,
either.


>You have suceeded... end of conversation with you.


Well, since that's the closest thing to an admission of ignorance that
you are capable of, I'll take all nine square feet...... ROTFLMMFAO!!!




From 3621590405657689600
X-Google-Thread: fc2a5,a99085f10ad31b01
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news01.roc.ny.POSTED!fd24bd7a!
not-for-mail
From: gwatts <gwatts@frontiernet.net>
User-Agent: Mozilla Thunderbird 1.0.6 (Windows/20050716)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Has anyone ever removed an antenna tuner from a radio and...
References: <fdb53f$nf2@unix1.cc.ksu.edu>
In-Reply-To: <fdb53f$nf2@unix1.cc.ksu.edu>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
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Content-Transfer-Encoding: 7bit
Lines: 10
Message-ID: <Uo9Ki.17542$B25.14973@news01.roc.ny>
X-Complaints-To: abuse-news@frontiernet.net
X-Trace:
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3e91677dc5e96675d6b7860f68935eb56c2f5e0fda091ff1956ad881d215d6639f4e8e2ad2fb8b60fa
87a0b81d87
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Tue, 25 Sep 2007 15:01:08 UTC
Date: Tue, 25 Sep 2007 15:01:08 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1110

mcalhoun@ksu.edu wrote:
> This may not seem like a "homebrew" question, but it is!
>
> I have a Kenwood 440SAT which is failing...
>
> Any suggestions?

How is the 440SAT failing?  Any chance of repairing it or selling it as-is?

W8LNA


From 4897239267391725083
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r29g2000hsg.googlegroups.com!not-for-
mail
From:  Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Tue, 25 Sep 2007 08:09:50 -0700
Organization: http://groups.google.com
Lines: 12
Message-ID: <1190732990.399464.59430@r29g2000hsg.googlegroups.com>
References: <1190333303.832852.219920@50g2000hsm.googlegroups.com>
   <tue6f3pf6m0c8gnl5lmgj1n8gikakceucd@4ax.com>
   <1190474806.897421.57770@57g2000hsv.googlegroups.com>
   <h5ccf3lp35k2v547gqmjhthrs1d71ep8km@4ax.com>
   <1190552762.386910.283020@w3g2000hsg.googlegroups.com>
   <e41ff3t3om9477tdp41btn41vc4lsuk4fd@4ax.com>
   <1190627567.146982.197680@d55g2000hsg.googlegroups.com>
   <n94gf3lt0ic06brupousmnb15lea2cgk5b@4ax.com>
   <1190724202.475589.288030@d55g2000hsg.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 25 Sep 2007 15:09:50 +0000 (UTC)
In-Reply-To: <707if3hnfqh0aih7c7sg1n3mav2p4o81hl@4ax.com>
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1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: r29g2000hsg.googlegroups.com; posting-host=216.203.30.4;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.cb:4023 rec.radio.amateur.equipment:1005
rec.radio.amateur.homebrew:1111

On Sep 25, 9:37 am, james <geo...@washington.edu> wrote:
> Bovine excrement. Ever heard of equalizing of current through a series
> resistance? Often called a ballast resistor. Used quite often in power
> transistors where there are several base/emiter pn jumctions.

OK James... less not discuss ballasting... because that has no bearing
in this particular discussion. Maybe you can tell us how the diode
method of biasing shown at http://www.ifwtech.co.uk/g3sek/tr-bias/tr-bias1.htm
(bad circuits section) works. And since you think that circuit works
well. Please tell us why.
www.telstar-electronics.com



From -7721916216872141377
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!multikabel.net!
feed20.multikabel.net!sn-xt-ams-06!sn-xt-ams-05!sn-post-ams-02!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: Frank Gilliland <w�renut@NOSPAM�cehouse.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Tue, 25 Sep 2007 08:20:48 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <no9if3tg0a534i2sgo08bpu9s2ttrjntuj@4ax.com>
References: <1190474806.897421.57770@57g2000hsv.googlegroups.com>
<h5ccf3lp35k2v547gqmjhthrs1d71ep8km@4ax.com>
<1190552762.386910.283020@w3g2000hsg.googlegroups.com>
<e41ff3t3om9477tdp41btn41vc4lsuk4fd@4ax.com>
<1190627567.146982.197680@d55g2000hsg.googlegroups.com>
<n94gf3lt0ic06brupousmnb15lea2cgk5b@4ax.com>
<1190724202.475589.288030@d55g2000hsg.googlegroups.com>
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<1190732990.399464.59430@r29g2000hsg.googlegroups.com>
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X-Newsreader: Forte Free Agent 1.93/16.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 18
Xref: g2news2.google.com rec.radio.cb:4026 rec.radio.amateur.equipment:1006
rec.radio.amateur.homebrew:1112

On Tue, 25 Sep 2007 08:09:50 -0700, Telspam Electronics
<briangriffey@sbcglobal.net> wrote in
<1190732990.399464.59430@r29g2000hsg.googlegroups.com>:

>On Sep 25, 9:37 am, james <geo...@washington.edu> wrote:
>> Bovine excrement. Ever heard of equalizing of current through a series
>> resistance? Often called a ballast resistor. Used quite often in power
>> transistors where there are several base/emiter pn jumctions.
>
>OK James... less not discuss ballasting... because that has no bearing
>in this particular discussion. Maybe you can tell us how the diode
>method of biasing shown at http://www.ifwtech.co.uk/g3sek/tr-bias/tr-bias1.htm
>(bad circuits section) works.

Holy shit..... Brian flunked first-year techie school!!!!

From 9007340065895060748
X-Google-Thread: fc2a5,a99085f10ad31b01
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news01.roc.ny.POSTED!fd24bd7a!
not-for-mail
From: gwatts <gwatts@frontiernet.net>
User-Agent: Mozilla Thunderbird 1.0.6 (Windows/20050716)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Has anyone ever removed an antenna tuner from a radio and...
References: <fdb53f$nf2@unix1.cc.ksu.edu> <Uo9Ki.17542$B25.14973@news01.roc.ny>
In-Reply-To: <Uo9Ki.17542$B25.14973@news01.roc.ny>
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Content-Transfer-Encoding: 7bit
Lines: 24
Message-ID: <W%9Ki.17546$B25.13041@news01.roc.ny>
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38443f5015a829820a0e5586d7fd6dee3514b2a6d55cc3e76f4dffe8ce481b395e16d51f703229af10
772f607e6c
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Tue, 25 Sep 2007 15:42:46 UTC
Date: Tue, 25 Sep 2007 15:42:46 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1113

gwatts wrote:
> mcalhoun@ksu.edu wrote:
>
>> This may not seem like a "homebrew" question, but it is!
>>
>> I have a Kenwood 440SAT which is failing...
>>
>> Any suggestions?
>
>
> How is the 440SAT failing? Any chance of repairing it or selling it as-is?
>
> W8LNA

To which I should have added:
Taking the tuner out of the radio and making it work as a stand-alone
tuner might be interesting but more likely a huge effort. You should
first get the manuals and schematics for the radio and the stand alone
Kenwood tuner and see what ends up where between the built-in and
stand-alone versions. If you can fix the radio then you have a radio
with a built-in tuner. If you sell the radio as-is you might have
enough to buy a new auto-tuner like an LDG,
http://www.ldgelectronics.com/ If you actually can remove the tuner and
make it work as a stand-alone version you should write an article about it.

From -7624581879342525899
X-Google-Thread: fc2a5,a99085f10ad31b01
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 25 Sep 2007 16:52:32 -0500
Date: Tue, 25 Sep 2007 21:52:31 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Has anyone ever removed an antenna tuner from a radio and...
References: <fdb53f$nf2@unix1.cc.ksu.edu> <Uo9Ki.17542$B25.14973@news01.roc.ny>
<W%9Ki.17546$B25.13041@news01.roc.ny>

In-Reply-To: <W%9Ki.17546$B25.13041@news01.roc.ny>
Content-Type: text/plain; charset=us-ascii; format=flowed
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Message-ID: <6_qdnfmlvea8HmTbnZ2dnUVZ_sOrnZ2d@bright.net>
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X-Usenet-Provider: http://www.giganews.com
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88NeRuDHUQzCY1RyySFo1EqKu3eKjAZ5Bj9sN6wdGXgzhWg412vzosiqFa/zX7q!5/25qrRE9A==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1114

I don't see why it would be a big deal to remove the auto-tuner from the 440SAT. I have the 690S(AT) which is just a 450S with 6M built in. The manual for the radio has a 9 step instruction for INSTALLING the auto-tuner. Start at step 9 and work backwards to UN-install the tuner. The 450 is basically an updated 440.

Scott
N0EDV

gwatts wrote:
> gwatts wrote:
>
>> mcalhoun@ksu.edu wrote:
>>
>>> This may not seem like a "homebrew" question, but it is!
>>>
>>> I have a Kenwood 440SAT which is failing...
>>>
>>> Any suggestions?
>>
>>
>>
>> How is the 440SAT failing? Any chance of repairing it or selling it
>> as-is?
>>
>> W8LNA
>
>
> To which I should have added:
> Taking the tuner out of the radio and making it work as a stand-alone
> tuner might be interesting but more likely a huge effort. You should
> first get the manuals and schematics for the radio and the stand alone
> Kenwood tuner and see what ends up where between the built-in and
> stand-alone versions. If you can fix the radio then you have a radio
> with a built-in tuner. If you sell the radio as-is you might have

> enough to buy a new auto-tuner like an LDG,
> http://www.ldgelectronics.com/ If you actually can remove the tuner and
> make it work as a stand-alone version you should write an article about it.

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

From 1403211848499893202
X-Google-Thread: fc2a5,a99085f10ad31b01
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe06.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <fdb53f$nf2@unix1.cc.ksu.edu> <Uo9Ki.17542$B25.14973@news01.roc.ny>
<W%9Ki.17546$B25.13041@news01.roc.ny>
<6_qdnfmlvea8HmTbnZ2dnUVZ_sOrnZ2d@bright.net>
Subject: Re: Has anyone ever removed an antenna tuner from a radio and...
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
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NNTP-Posting-Date: Tue, 25 Sep 2007 15:54:04 MST
Date: Tue, 25 Sep 2007 18:53:25 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:1115

"Scott" <acepilot@bloomer.net> wrote in message
news:6_qdnfmlvea8HmTbnZ2dnUVZ_sOrnZ2d@bright.net...
>I don't see why it would be a big deal to remove the auto-tuner from the
>440SAT. I have the 690S(AT) which is just a 450S with 6M built in. The
>manual for the radio has a 9 step instruction for INSTALLING the
>auto-tuner. Start at step 9 and work backwards to UN-install the tuner.
>The 450 is basically an updated 440.

I expect it should be relatively easy to remove the tuner, *BUT*, OP wanted
to use the tuner after it was removed. Most modern radios have fairly
elaborate microcontrollers. An astute engineer would likely use the
existinc CPU for the autotuner, rather than adding another, unless the tuner
option were an afterthought.

Even if the tuner had a dedicated processor, the controls from the tuner
almost certainly come from the rig's main processor. I suspect it might be

fairly tricky figuring out how to talk to it, even if OP is a
microcontroller guru. In any case, he is likely looking at a significant
micro project to make it work.

..

From 7009302348982881224
X-Google-Thread: fc2a5,57d7f24d807aa1fd,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!
news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 25 Sep 2007 18:14:43 -0500
From: miken <mnewman@clear.net.nz>
Newsgroups: rec.radio.amateur.homebrew
Subject: Xtal calibrator, 1980 ARRL Handbook
Date: Wed, 26 Sep 2007 11:14:27 +1200
Message-ID: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
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MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Original-NNTP-Posting-Host: 121-72-75-196.dsl.telstraclear.net
X-Original-Trace: 26 Sep 2007 11:14:40 +1200, 121-72-75-196.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 8
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-Trace: sv3-l8lN7wGgypTZOwkk3OwOky4mkDd1F8NVVSpUwirqMct6u902No0ZL3jbvH9r/
jb1fnJW0xVXCyu/rTn!m/fX+3oTSp35J9zmKkXZ7WUkvFpXGx6Ljd4vR/j0/
vRSFsw+BkWcOfP4r4MasjPiMsWptiVhX5vy!3tjEaWQ=
X-Complaints-To: Complaints to abuse@clear.net.nz
X-DMCA-Complaints-To: Complaints to abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1116

Hi all

Is there anyone in the group who has a 1980 ARRL handbook who could
scan and email me the circuit of the xtal calibrator/marker generator.
I've a friend building replica glowbug regen receivers who needs this
info to help get his unit operational.

Thanks miken,   zl1bnb

```
From 8030984658720471593
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!news.kjsl.com!
ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: 25 Sep 2007 23:28:56 GMT
Organization: The National Capital FreeNet
Lines: 17
Message-ID: <fdc5jo$1f0$1@theodyn.ncf.ca>
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1190762936 1504 134.117.136.48 (25 Sep 2007 23:28:56 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 25 Sep 2007 23:28:56 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1117

miken (mnewman@clear.net.nz) writes:
> Hi all
>
> Is there anyone in the group who has a 1980 ARRL handbook who could
> scan and email me the circuit of the xtal calibrator/marker generator.
> I've a friend building replica glowbug regen receivers who needs this
> info to help get his unit operational.
>
> Thanks  miken,   zl1bnb

You'd do well to give an idea of what's inside.

The Handbook changes glacially, so chances are good any specific
article is in more than one edition.

   Michael  VE2BVW




From 1678626328194768467
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!sn-xt-sjc-05!sn-xt-sjc-09!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: Tue, 25 Sep 2007 17:25:26 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13fj9ngdcp3ggcb@corp.supernews.com>
```

References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 30
Xref: g2news2.google.com rec.radio.amateur.homebrew:1118

Hello Miken:

I found my 1981 ARRL Handbook. They have a "marker" generator, which uses an LF-353, a 4001 and a 4013 - all integrated circuits. There is also a simple 2 transistor 100 kHz oscillator.

The marker generator puts out 100, 50 and 25 kHz.

When I read the request for a circuit to supplement a glowbug, I thought a tube crystal calibrator would be what was wanted, and thought perhaps the later 1981 edition might have abandoned a tube version. So, I pulled out a 1972 ARRL Handbook and even then all they had was solid state.

If you are going to use integrated circuits in a glowbug receiver, you need to hide them, since it is unbecoming and might cause others to ridicule the otherwise heroic effort to recreate a glorious radio. A simple tube can do a wonderful job of putting out 100 kHz signals, and if you want 50 kHz, you can use a neon bulb divider.

Many of the simple receivers I built would have been lost with a 100 kHz marker. A 1 MHz marker would have been more useful, and even then I was guessing at the which MHz it was. The best marker was simply a crystal in the ham band and a known point. Something like 3550 kHz, which could also be used to spot at 7100 kHz. Even odd marked frequencies are useful - then a properly hand calibrated graph laminated on the front panel (ala HRO) will give a feeling that none of the wonderful new rigs can touch.

73, Colin K7FM

From -5879929215901702805
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out04a.usenetserver.com!news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe13.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew

References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<13fj9ngdcp3ggcb@corp.supernews.com>
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Lines: 31
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <8MhKi.284525$BX3.86221@newsfe13.lga>
Date: Tue, 25 Sep 2007 20:32:03 -0400
NNTP-Posting-Host: 68.229.79.253
X-Complaints-To: admin@cox.net
X-Trace: newsfe13.lga 1190766724 68.229.79.253 (Tue, 25 Sep 2007 17:32:04 MST)
NNTP-Posting-Date: Tue, 25 Sep 2007 17:32:04 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:1119

"COLIN LAMB" <k7fm@teleport.com> wrote in message
news:13fj9ngdcp3ggcb@corp.supernews.com...
> Hello Miken:
>
> I > If you are going to use integrated circuits in a glowbug receiver, you
> need to hide them, since it is unbecoming and might cause others to
> ridicule the otherwise heroic effort to recreate a glorious radio. A
> simple tube can do a wonderful job of putting out 100 kHz signals, and if
> you want 50 kHz, you can use a neon bulb divider.
>
> Many of the simple receivers I built would have been lost with a 100 kHz
> marker. A 1 MHz marker would have been more useful, and even then I was
> guessing at the which MHz it was. The best marker was simply a crystal in
> the ham band and a known point. Something like 3550 kHz, which could also
> be used to spot at 7100 kHz. Even odd marked frequencies are useful -
> then a properly hand calibrated graph laminated on the front panel (ala
> HRO) will give a feeling that none of the wonderful new rigs can touch.
>
> 73, Colin K7FM
>

Colin

do you have a link for using a neon lamp as a frequency divider? This is
the first reference I've seen for this, and I'm fascinated to learn more
about it.

Peter

From -7713573970992238768
X-Google-Thread: fc2a5,57d7f24d807aa1fd

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X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!sn-xt-sjc-04!sn-xt-sjc-09!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: Tue, 25 Sep 2007 17:51:10 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13fjb7o7ntth82@corp.supernews.com>
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<13fj9ngdcp3ggcb@corp.supernews.com> <8MhKi.284525$BX3.86221@newsfe13.lga>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 17
Xref: g2news2.google.com rec.radio.amateur.homebrew:1120
```

Hi Peter:

That will teach me tomake a statement without my resources handy, so please do not time me. I have started looking now. I recall that there are probably one or more in Hints and Kinks, none in the ARRL Handbook (it was pretty basic as far as test equipment0, one or more in QSTs from the 50s and various other books. I have most of those so will go through them. We have a lot of readers, so do not be bashful if you know the references.

Some of the early computers used neon bulbs as dividers and the circuit is in some of those textbooks.

Well, go ahead and time me starting - - now.

Colin K7FM

```
From 4033341135936681889
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!news.kjsl.com!
ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: 26 Sep 2007 02:48:02 GMT
Organization: The National Capital FreeNet
Lines: 65
Message-ID: <fdch92$714$1@theodyn.ncf.ca>
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References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<13fj9ngdcp3ggcb@corp.supernews.com> <8MhKi.284525$BX3.86221@newsfe13.lga>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1190774882 7204 134.117.136.48 (26 Sep 2007 02:48:02 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 26 Sep 2007 02:48:02 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1121

"Uncle Peter" (radioconnection@cox.net) writes:
> "COLIN LAMB" <k7fm@teleport.com> wrote in message
> news:13fj9ngdcp3ggcb@corp.supernews.com...
>> Hello Miken:
>>
>> I > If you are going to use integrated circuits in a glowbug receiver, you
>> need to hide them, since it is unbecoming and might cause others to
>> ridicule the otherwise heroic effort to recreate a glorious radio. A
>> simple tube can do a wonderful job of putting out 100 kHz signals, and if
>> you want 50 kHz, you can use a neon bulb divider.
>>
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>> marker. A 1 MHz marker would have been more useful, and even then I was
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>> be used to spot at 7100 kHz. Even odd marked frequencies are useful -
>> then a properly hand calibrated graph laminated on the front panel (ala
>> HRO) will give a feeling that none of the wonderful new rigs can touch.
>>
>> 73, Colin K7FM
>>
>
> Colin
>
> do you have a link for using a neon lamp as a frequency divider? This is
> the first reference I've seen for this, and I'm fascinated to learn more
> about it.
>
> Peter
>
>
When I saw Colin start to suggest a tube calibrator, my thought was
"what will you use for a divider, a neon bulb?"

But like him, I can't put my fingers on a circuit. Undoubtedly
somewhere someone did build a crystal calibrator with a neon divider
to get closer together markers, before there were IC dividers.

Another common place would be electronic organs, they'd use neon
bulb dividers to get the next lower octave from a master oscillator.

I'm sure in those "101 things to do with Neon Bulb" books, or even
the wide coverage articles in the magazines, would have a divider.

One Rufus P. Turner book I do have from the tube era has no such
dividers.

I can't find the one book about electronic musical instruments that has
a lot of organ circuitry, which likely does have dividers.

Tube era frequency counters likely used them to some extent.

I am blank about how they worked. It may be like a synchronized
oscillator, using the crystal oscillator to sync a free running
neon bulb multivibrator.

There were also pulse counters, collect pulses until they voltage
of the collected pulses trigger something and it starts over again.

I'm sure I've seen the basic principle, whatever it is, used with
unijunction transistors and even 555s, they all operate basically
the same. But I sure can't find an exact reference in the books
I have handy.

  Michael VE2BVW

From -7743624135205492632
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!sn-xt-sjc-04!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: Tue, 25 Sep 2007 20:00:10 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13fjipnk9ak5965@corp.supernews.com>
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<13fj9ngdcp3ggcb@corp.supernews.com> <8MhKi.284525$BX3.86221@newsfe13.lga>
<fdch92$714$1@theodyn.ncf.ca>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 24
Xref: g2news2.google.com rec.radio.amateur.homebrew:1122

Hi Michael:

I know I have seen at least a few circuits, but so far I have not put my
eyeballs on one. I checked QST back to 1950, being distracted a bit when I
came upon the Clipperton Island DXpedition. Also checked a number of Hints
and Kinks.

Even used Google. I found a number of references to them, but no actual circuit. Although they were used in electronic organs, I know I have seen crystal calibrator circuits using them.

Shhhhh. Please do not let my wife know that, with bookcases spread out all over I cannot find the circuit. Her idea is that if I have not looked at something in the last 15 minutes, I should discard it - even though she still keeps her old clothes she does not fit into anymore.

And, remember that the neon bulb also makes a nice low current screen regulator, too. (oh, oh, now someone will ask for that circuit.)

Back to the library,

Colin K7FM

From 3978584498465633481
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!sn-xt-sjc-02!sn-xt-sjc-01!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: Tue, 25 Sep 2007 20:02:57 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13fjiv212ri3cc3@corp.supernews.com>
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com> <13fj9ngdcp3ggcb@corp.supernews.com> <8MhKi.284525$BX3.86221@newsfe13.lga> <fdch92$714$1@theodyn.ncf.ca>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 8
Xref: g2news2.google.com rec.radio.amateur.homebrew:1123

In the process of looking for the neon bulb divider, I found a few circuits using a ECC81, or a 12AU7 or a 6U8 divider - and one circuit even using a simple rc oscillator locked by the 100 kHz crystal to yield 50 kHz signals. That was in QST.

73, Colin K7FM

```
From -902095490704221646
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder3.cambrium.nl!feeder1.cambrium.nl!
feed.tweaknews.nl!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-05!sn-ams!sn-feed-
ams-01!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: Tue, 25 Sep 2007 23:06:21 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13fjmlshttgug69@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<13fj9ngdcp3ggcb@corp.supernews.com> <8MhKi.284525$BX3.86221@newsfe13.lga>
<fdch92$714$1@theodyn.ncf.ca>
In-Reply-To: <fdch92$714$1@theodyn.ncf.ca>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 25
Xref: g2news2.google.com rec.radio.amateur.homebrew:1124
```

Michael Black wrote:

<snip>

> I am blank about how they worked. It may be like a synchronized
> oscillator, using the crystal oscillator to sync a free running
> neon bulb multivibrator.

Neon bulb bistable multivibrators were staples of low speed digital counters and of course electronic organs; the circuit relies on hysteresis of twin bulbs connected through a common (cathode) resistor. I may post links to some example implementation diagrams.

> There were also pulse counters, collect pulses until they voltage
> of the collected pulses trigger something and it starts over again.

One can use a charge pump (diode pump) to accumulate (constant width and amplitude) pulses until neon bulb breakdown potential is reached and the bulb discharges the output capacitor restarting the cycle.

Regards,

Michael

```
From 5091857860903594533
X-Google-Thread: fc2a5,a99085f10ad31b01
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Has anyone ever removed an antenna tuner from a radio and...
Date: 25 Sep 2007 23:26:57 -0500
Organization: Kansas State University
Lines: 17
Message-ID: <fdcn2h$f40@unix1.cc.ksu.edu>
References: <fdb53f$nf2@unix1.cc.ksu.edu> <Uo9Ki.17542$B25.14973@news01.roc.ny>
NNTP-Posting-Host: unix1.cc.ksu.edu
X-Trace: cnn.cns.ksu.edu 1190780821 24996 129.130.12.3 (26 Sep 2007 04:27:01 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Wed, 26 Sep 2007 04:27:01 +0000 (UTC)
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1125
```

>> I have a Kenwood 440SAT which is failing.... Any suggestions?

>How is the 440SAT failing? Any chance of repairing it or selling it as-is?

Ignoring the "bouncy" buttons, everything works fine on CW but won't
modulate. Microphone may have failed, and I haven't gotten around
to cobbling a substitute to the right connector.

FWIW, I realized today that I DO have full manuals and have learned that,
even though the AT can be an after-market addition, the schematics show
the AT is controlled by the radio's processor and making it work without
the radio will be a real pain!
--
--Myron A. Calhoun.
Five boxes preserve our freedoms: soap, ballot, witness, jury, and cartridge
NRA Life Member & Certified Instructor for Rifle, Pistol, & Home Firearm Safety
Also Certified Instructor for the Kansas Concealed-Carry Handgun (CCH) license

```
From 7324068239905840471
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: 25 Sep 2007 23:29:55 -0500
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Organization: Kansas State University
Lines: 68
Message-ID: <fdcn83$f7v@unix1.cc.ksu.edu>
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
NNTP-Posting-Host: unix1.cc.ksu.edu
X-Trace: cnn.cns.ksu.edu 1190780998 25136 129.130.12.3 (26 Sep 2007 04:29:57 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Wed, 26 Sep 2007 04:29:57 +0000 (UTC)
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1126

>Is there anyone in the group who has a 1980 ARRL handbook who could
>scan and email me the circuit of the xtal calibrator/marker generator.
>I've a friend building replica glowbug regen receivers who needs this
>info to help get his unit operational.

Maybe the following will be of help:

QST page:
* 12, May '37:  "A 100-Kc. E.C. Oscillator for Frequency Checking"
                 uses a 24A tube
* 53, May '37:  "100-kc. Calibrating Oscillator" uses a 6L6 tube
* 40, Jan '39:   1000 Kc calibrator uses 6F6 tube
* 34, Sep '41:   50-, 100-, and 1000-kc oscillator uses three switched
                 LC combinations and one 117L7GT tube
* 52, May '45:  "Battery-powered one-tube 450- and 1500-kc. signal
                 generator" (1G4, 1H5, or 30 tube)
* 31, Oct '51:   Uses both halves of a 6SN7 dual triode to produce
                 50-kc signals
* 68, May '52:  "Simple crystal marker oscillator" uses a 6J5 tube
                 plus two resistors and 'most any crystal.
>>>>> This is the SIMPLIST calibrator circuit I've seen! <<<<<
* 41, Jun '52:  "...Frequency Standard...Oscillator" uses a 6F6
                 oscillator, both halves of a 6SN7 as a multivibrator,
                 and a 6K8 buffer/mixer to give 100-kc and 10-kc points
* 43, Sep '52:  "Fig. 2 - Oscillator circuit for a simple 100-kc crystal
                 standard" uses a 6AU6 tube and NO inductor!
* 40, Jul '54:   Uses a 6AK5 to produce 100/50-kc harmonics
* 14, Mar '55:  "Frequency Marker with 50-Kc. Intervals" uses a 6AK5
                 and both "halves" of a 6U8 to provide harmonics up
                 to 30 Mc.
* 61, Jul '59:  "100-kc calibrator with 1-kc markers" uses a 6AU6
                 oscillator and an NE-2 sub-harmonic generator
* 30, Mar '62:   Uses a 6AU6 oscillator at 100 kc and a 12AU7
                 multivibrator to also give 50 kc markers
* 33, Jan '65:   Uses a 6AQ5 oscillator at 100 kc and a 6AS6 10-kc
                 sub-harmonic generator (no diode and NO inductors!)
* 34, May '65:   Uses a 6AU6 oscillator at 100 kc, a 12AU7 multi-
                 vibrator for 10 kc points, and another 12AU7
>>>>> ACCURACY:  multivibrator for 1 kc points!


CQ page:
```

* 35, Jul '47: "A Simple Frequency Standard" uses both halves of a 6SN7
          and one semiconductor diode (an easily-hidden 1N34) to
          produce 1000- and 100-kc signals up to about 60 mc.
* ??, Apr '55: "500-kc Marker" uses a 6AU6 tube
* 29, Dec '55: "A Heterodyne Crystal Calibrator AND CODE PRACTICE
                 OSCILLATOR" uses both halves of a 7N7, 6SN7, or 12AU7
                 (or pairs of many triodes) and two crystals to give
                 marker signals at the DIFFERENCE of the two crystals

RADIO-ELECTRONICS page:
* 34, Oct '55: "Dual-Frequency Crystal Calibrator" uses a dual-
                 frequency crystal and a 6AK5 to produce outputs at
                 1000- and 100-kc. Adds a 1N34 diode and a 6BE6 tube
                 to make a harmonic generator. Adds an NE-51 as a
                 relaxation oscillator to make the marker points
                 more-easily recognized!
* 52, Sep '66: "Crystal Calibrator" for CB; uses a 6C4 oscillator

If those aren't enough, I can also cite several "utility oscillators"
(which are usually coil-less).

--
--Myron A. Calhoun.
Five boxes preserve our freedoms: soap, ballot, witness, jury, and cartridge
NRA Life Member & Certified Instructor for Rifle, Pistol, & Home Firearm Safety
Also Certified Instructor for the Kansas Concealed-Carry Handgun (CCH) license

From 2731012309093217766
X-Google-Thread: fc2a5,a99085f10ad31b01
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 26 Sep 2007 06:16:33 -0500
Date: Wed, 26 Sep 2007 11:16:31 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Has anyone ever removed an antenna tuner from a radio and...
References: <fdb53f$nf2@unix1.cc.ksu.edu> <Uo9Ki.17542$B25.14973@news01.roc.ny>
<W%9Ki.17546$B25.13041@news01.roc.ny>
<6_qdnfmlvea8HmTbnZ2dnUVZ_sOrnZ2d@bright.net> <gkgKi.41$n96.32@newsfe06.lga>
In-Reply-To: <gkgKi.41$n96.32@newsfe06.lga>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <4-ydnTUUN8gMomfbnZ2dnUVZ_g6dnZ2d@bright.net>
Lines: 43

X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
DNnL9Cmhd6zSZKi0Xc9D1NuxyXOBqLequ7wu3ugiVUrxqdjZVZYsBfOtWJxwcuLDcDK98j3g/7FyWfG!
DqiiYVd3gzTqDVZDmuRu/n+UvVdQvtXVxAz4oM7g4dx7qLakiiJY6nbkKttu5Z4PouUdXZ+g6bBd!
TXzmGyk7Rg==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1127

Oh...I didn't get what the original poster wanted to do...I thought he wanted to use the radio without the tuner. So...yes, it might not be the easiest thing to do (get the tuner working as a stand-alone unit). Taking a quick look at the schematic for the auto-tuner in my 690, it appears most of the brains are in the tuner itself. Unfortunately, there are several signal inputs that are labeled cryptically, so it might be a bit difficult to figure out what they are used for...

Scott
N0EDV

xpyttl wrote:
> "Scott" <acepilot@bloomer.net> wrote in message
> news:6_qdnfmlvea8HmTbnZ2dnUVZ_sOrnZ2d@bright.net...
>
>>I don't see why it would be a big deal to remove the auto-tuner from the
>>440SAT. I have the 690S(AT) which is just a 450S with 6M built in. The
>>manual for the radio has a 9 step instruction for INSTALLING the
>>auto-tuner. Start at step 9 and work backwards to UN-install the tuner.
>>The 450 is basically an updated 440.
>
>
> I expect it should be relatively easy to remove the tuner, *BUT*, OP wanted
> to use the tuner after it was removed. Most modern radios have fairly
> elaborate microcontrollers. An astute engineer would likely use the
> existinc CPU for the autotuner, rather than adding another, unless the tuner
> option were an afterthought.
>
> Even if the tuner had a dedicated processor, the controls from the tuner
> almost certainly come from the rig's main processor. I suspect it might be
> fairly tricky figuring out how to talk to it, even if OP is a
> microcontroller guru. In any case, he is likely looking at a significant
> micro project to make it work.
>
> ..
>
>

--

Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

```
From -7609647569813934547
X-Google-Thread: fc2a5,a99085f10ad31b01
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe12.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <fdb53f$nf2@unix1.cc.ksu.edu> <Uo9Ki.17542$B25.14973@news01.roc.ny>
<fdcn2h$f40@unix1.cc.ksu.edu>
Subject: Re: Has anyone ever removed an antenna tuner from a radio and...
Lines: 26
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <jetKi.12$Ue7.8@newsfe12.lga>
Date: Wed, 26 Sep 2007 09:34:58 -0400
NNTP-Posting-Host: 24.236.172.239
X-Trace: newsfe12.lga 1190813711 24.236.172.239 (Wed, 26 Sep 2007 06:35:11 MST)
NNTP-Posting-Date: Wed, 26 Sep 2007 06:35:11 MST
Xref: g2news2.google.com rec.radio.amateur.homebrew:1128
```

<mcalhoun@ksu.edu> wrote in message news:fdcn2h$f40@unix1.cc.ksu.edu...

> FWIW, I realized today that I DO have full manuals and have learned that,
> even though the AT can be an after-market addition, the schematics show
> the AT is controlled by the radio's processor and making it work without
> the radio will be a real pain!

Actually, maybe not as much of a pain as if the thing had its own processor. If the AT had a dedicated processor, there would certainly be some control lines from the rig's processor. Reverse engineering what those control lines did could be a real problem.

But if the AT is controlled by the rig's processor, then there are interface lines to the things that need to be twiddled, and it should be fairly obvious from the schematic what twiddles what. So the problem simply becomes writing autotuner software, which isn't all that bad. All the grody hardware work has been done for you! Ok, certainly not a trivial project, but I'm not sure it rises to the level of "a real pain"

Of course, some folks have a different comfort level with a soldering iron than with a keyboard, so I imagine there are some that might see it differently.

..

```
From -5372306508957688380
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!sn-xt-sjc-02!sn-
xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: Wed, 26 Sep 2007 06:45:43 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13fkok050nvfb6e@corp.supernews.com>
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<fdcn83$f7v@unix1.cc.ksu.edu>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 9
Xref: g2news2.google.com rec.radio.amateur.homebrew:1129
```

Myron, you get the research gold star. I see the 1959 QST article uses a neon bulb, although it was not the one I was thinking of. I think I quit in QST when I got to 1959 because I thought the transistors would eliminate the tube dividers. I was about to go through CQ, though, so you saved a lot of time there.

Colin K7FM

```
From -7374649890176420774
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: 26 Sep 2007 09:33:21 -0500
Organization: Kansas State University
Lines: 35
Message-ID: <fddqjh$cml@unix1.cc.ksu.edu>
```

References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<fdcn83$f7v@unix1.cc.ksu.edu> <13fkok050nvfb6e@corp.supernews.com>
NNTP-Posting-Host: unix1.cc.ksu.edu
X-Trace: cnn.cns.ksu.edu 1190817202 15760 129.130.12.3 (26 Sep 2007 14:33:22 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Wed, 26 Sep 2007 14:33:22 +0000 (UTC)
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1130

>Myron, you get the research gold star.

Thanks.

>I see the 1959 QST article uses a neon bulb, although it was not the one
>I was thinking of....

That one used the NE-51? Another one used an NE-2.

>I was about to go through CQ, though, so you saved a lot of time there.

For the almost-50 years I've been a ham, my method of indexing articles
has been to TEAR & FILE. Most QST's, CQ's, HAM RADIO, RADIO ELECTRONICS,
RADIO & TELEVISION (in its many incarnations), 73's, and several other
electronic-related magazines, including many printed before I was born,
have passed through my ripping claws, so all I did was turn to the right
file (labeled "frequency standards", in this case) and start listing them.

I also have an almost-complete set of QST's dating back through 1936,
but quit saving the actual magazines in 1977 (78?) when they went to
the bigger format. I'm thought about buying the CD set, but, at my
age, the payback will not happen.

Unfortunately, I've spent more time tearing & filing than I have building,
and now, what with the Internet.... Someday I've just gotta get my
priorities right.

--73, Myron, W0PBV.
--
--Myron A. Calhoun.
Five boxes preserve our freedoms: soap, ballot, witness, jury, and cartridge
NRA Life Member & Certified Instructor for Rifle, Pistol, & Home Firearm Safety
Also Certified Instructor for the Kansas Concealed-Carry Handgun (CCH) license

From -2978918158246129094
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out01b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
newsfeed.yul.equant.net!nntp1.roc.gblx.net!nntp.gblx.net!nntp.gblx.net!

news.xcski.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: 26 Sep 2007 15:03:22 GMT
Organization: The National Capital FreeNet
Lines: 21
Message-ID: <fddsbq$t8i$1@theodyn.ncf.ca>
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<fdcn83$f7v@unix1.cc.ksu.edu> <13fkok050nvfb6e@corp.supernews.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1190819002 29970 134.117.136.48 (26 Sep 2007 15:03:22 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 26 Sep 2007 15:03:22 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1131

"COLIN LAMB" (k7fm@teleport.com) writes:
> Myron, you get the research gold star. I see the 1959 QST article uses a
> neon bulb, although it was not the one I was thinking of. I think I quit in
> QST when I got to 1959 because I thought the transistors would eliminate the
> tube dividers. I was about to go through CQ, though, so you saved a lot of
> time there.
>

I would have stopped about then also, not so much that we'd see dividers
at that point, they were never a routine part of crystal calibrators
until logic ICs became readily available (you did see dividers before,
but they weren't common), but because transistors were starting to
come in. Transistors were ideal for such small projects, because they
didn't need filament power (or B+), and they weren't ready for power
or high frequency use.

The earliest Handbook I have is 1961, and I see a transistorized
crystal calibrator but no tube based one.

Michael VE2BVW

From -1643695873405377 4
X-Google-Thread: fc2a5,90af4c134c0a64d4
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 26 Sep 2007 14:13:10 -0500
Date: Wed, 26 Sep 2007 20:13:24 +0100
From: charlie <wehatespam@wymsey.co.uk>
User-Agent: Thunderbird 1.5.0.12 (X11/20060911)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Instrument Case For Transceiver
References: <auqdnb24quGF72jbRVnygQA@pipex.net>
<e7OdnXkUvdS3NGjbnZ2dnUVZ8qydnZ2d@pipex.net>
<JLSdnScunq5tJ2vbnZ2dneKdnZydnZ2d@pipex.net> <CbOdnZnTO7O-UWvb4p2dnAA@pipex.net>
In-Reply-To: <CbOdnZnTO7O-UWvb4p2dnAA@pipex.net>
X-Enigmail-Version: 0.95.2
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-ID: <IJmdnaiwCoPaMmfbnZ2dneKdnZydnZ2d@pipex.net>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.199.44
X-Trace:
sv3-8jZ8qttrzyE+8wepPUGo6EZSFLl9BkxsYrY8P9hxL4sb8StnylbMQLL9lnTFpXuG7HYgc8kSrnJJGU
v!Jc6krvKmVPxs3xYB965l68dJZi6Kz7xe4oOqaj+iOF8D/q05VI/JrOq7te7+ncDna+zCle8zjSC2!
imyNExIUas/578WftCJom8YV0w==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1132

Highland Ham wrote:
>
<SNIP>
> Charlie , When replacing a variable aircap by a 10turn potmeter +
> varicap , I would suggest you pay much attention to the stabilised
> voltage feeding the potmeter/varicap ,to ensure acceptable frequency
> stability

Yes! My plan is to use a dedicated low power regulator.

By the way, I have found a company in West Sussex called Lincoln Binns who do a range of extruded cases which are very competitively priced, delivery cost is reasonable. I spoke to them today and they are happy to deal with private customers and will supply one offs.
See http://www.lincolnbinns.com/products.htm

Charlie.

--
M0WYM
www.radiowymsey.org

From -7468216426026301905
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe13.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <KvyKi.62728$hP1.21394@newsfe13.lga>
Date: Wed, 26 Sep 2007 15:35:05 -0400
NNTP-Posting-Host: 68.229.79.253
X-Complaints-To: admin@cox.net
X-Trace: newsfe13.lga 1190835306 68.229.79.253 (Wed, 26 Sep 2007 12:35:06 MST)
NNTP-Posting-Date: Wed, 26 Sep 2007 12:35:06 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:1133


"miken" <mnewman@clear.net.nz> wrote in message
news:7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com...
> Hi all
>
> Is there anyone in the group who has a 1980 ARRL handbook who could
> scan and email me the circuit of the xtal calibrator/marker generator.
> I've a friend building replica glowbug regen receivers who needs this
> info to help get his unit operational.
>
> Thanks  miken,   zl1bnb

Try the BAMA boatanchor manual archive. I know at least the calibrator
schematic for the Heath HR-10 receiver is posted there.  It should be
easy to duplicate.

Pete




From -4714498950779865299
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe13.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
```

```
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<13fj9ngdcp3ggcb@corp.supernews.com> <8MhKi.284525$BX3.86221@newsfe13.lga>
<13fjb7o7ntth82@corp.supernews.com>
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <dyyKi.62730$hP1.3652@newsfe13.lga>
Date: Wed, 26 Sep 2007 15:37:44 -0400
NNTP-Posting-Host: 68.229.79.253
X-Complaints-To: admin@cox.net
X-Trace: newsfe13.lga 1190835465 68.229.79.253 (Wed, 26 Sep 2007 12:37:45 MST)
NNTP-Posting-Date: Wed, 26 Sep 2007 12:37:45 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:1134


"COLIN LAMB" <k7fm@teleport.com> wrote in message
news:13fjb7o7ntth82@corp.supernews.com...
> Hi Peter:
>
 > Well, go ahead and time me starting - - now.
>
> Colin  K7FM
Hi Colin

Please don't go to any great effort on my part!  I didn't think about using
two neons in
a multivibrator!  I wonder what the maximum useable frequency would be, and
the
strength of the harmonics...

Pete k1zjh




From -6748303499880985722
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-
sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: james <george@washington.edu>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Wed, 26 Sep 2007 16:51:26 -0400
Organization: Posted via Supernews, http://www.supernews.com
```

```
Message-ID: <jgglf3hkhi83lgg513gs1i958ol96hk4pd@4ax.com>
Reply-To: beerkeg@budu.edu
References: <1190474806.897421.57770@57g2000hsv.googlegroups.com>
<h5ccf3lp35k2v547gqmjhthrs1d71ep8km@4ax.com>
<1190552762.386910.283020@w3g2000hsg.googlegroups.com>
<e41ff3t3om9477tdp41btn41vc4lsuk4fd@4ax.com>
<1190627567.146982.197680@d55g2000hsg.googlegroups.com>
<n94gf3lt0ic06brupousmnb15lea2cgk5b@4ax.com>
<1190724202.475589.288030@d55g2000hsg.googlegroups.com>
<707if3hnfqh0aih7c7sg1n3mav2p4o81hl@4ax.com>
<1190732990.399464.59430@r29g2000hsg.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 43
Xref: g2news2.google.com rec.radio.cb:4114 rec.radio.amateur.equipment:1017
rec.radio.amateur.homebrew:1135
```

On Tue, 25 Sep 2007 08:09:50 -0700, Telstar Electronics
<briangriffey@sbcglobal.net> wrote:

|On Sep 25, 9:37 am, james <geo...@washington.edu> wrote:
|> Bovine excrement. Ever heard of equalizing of current through a series
|> resistance? Often called a ballast resistor. Used quite often in power
|> transistors where there are several base/emiter pn jumctions.
|
|OK James... less not discuss ballasting... because that has no bearing
|in this particular discussion. Maybe you can tell us how the diode
|method of biasing shown at http://www.ifwtech.co.uk/g3sek/tr-bias/tr-bias1.htm
|(bad circuits section) works. And since you think that circuit works
|well. Please tell us why.
|www.telstar-electronics.com
|------------

Actually quite simple if you understand nodal analysis. Per Kirchoff's Laws the total current leaving a node must equal the current entering a node. The particular node that is of interest is in bad circuit A, is the junction of VRI, D1 and the base of the transisitor. For DC analysis the cap is an open circuit and the RFC is essentially a short. The current through D1 is set by the value of VR1, the supply voltage and the internal pn junction of the diode. The voltage drop across D1 is determined by the current flowing through the diode. In turn this sets the Vbe voltage of the base/emmitter PN junction. The instantaineous base/emmiter current varies with RF drive level. Should this current exceed 1/10th the current through D1, then D1 starts to loose regulation. This is the basic workings of a shunt regulator. Any good first year tech should know this.

For either circuits, bad A and B, to work properly, the D1 diode current should be ten times the peak instantaineous base current of the RF power transistor. This type of biasing is good for low power RF

devices. When dealing with large power devices, ie in the 100W and
more class, this is not a good bias as the wasted heat in VR1 and D1
is very inefficient and prone to failure. Also there is no protection
should a voltage spike on the DC supply propogate through. Most
bipolar RF device do not like more than about 4 VDC base/emmiter
voltage. Both circuits have no provisions for limiting the bias
voltage in such a manner to cause permanent damage to the base/emitter
junction.

james

From -8996556737823302669
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-03!sn-xt-sjc-10!sn-xt-sjc-01!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: james <george@washington.edu>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Wed, 26 Sep 2007 16:55:13 -0400
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <7lhlf313cchnabnl0ebocs6torj5njbddn@4ax.com>
Reply-To: beerkeg@budu.edu
References: <h5ccf3lp35k2v547gqmjhthrs1d71ep8km@4ax.com>
<1190552762.386910.283020@w3g2000hsg.googlegroups.com>
<e41ff3t3om9477tdp41btn41vc4lsuk4fd@4ax.com>
<1190627567.146982.197680@d55g2000hsg.googlegroups.com>
<n94gf3lt0ic06brupousmnb15lea2cgk5b@4ax.com>
<1190724202.475589.288030@d55g2000hsg.googlegroups.com>
<707if3hnfqh0aih7c7sg1n3mav2p4o81hl@4ax.com>
<1190732990.399464.59430@r29g2000hsg.googlegroups.com>
<no9if3tg0a534i2sgo08bpu9s2ttrjntuj@4ax.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@supernews.com
Lines: 28
Xref: g2news2.google.com rec.radio.cb:4115 rec.radio.amateur.equipment:1018
rec.radio.amateur.homebrew:1136

On Tue, 25 Sep 2007 08:20:48 -0700, Frank Gilliland
<w�renut@NOSPAM�cehouse.net> wrote:

|On Tue, 25 Sep 2007 08:09:50 -0700, Telspam Electronics
|<briangriffey@sbcglobal.net> wrote in
|<1190732990.399464.59430@r29g2000hsg.googlegroups.com>:
|

|>On Sep 25, 9:37 am, james <geo...@washington.edu> wrote:
|>> Bovine excrement. Ever heard of equalizing of current through a series
|>> resistance? Often called a ballast resistor. Used quite often in power
|>> transistors where there are several base/emiter pn jumctions.
|>
|>OK James... less not discuss ballasting... because that has no bearing
|>in this particular discussion. Maybe you can tell us how the diode
|>method of biasing shown at http://www.ifwtech.co.uk/g3sek/tr-bias/tr-bias1.htm
|>(bad circuits section) works.
|
|
|Holy shit..... Brian flunked first-year techie school!!!!
|
|-------------

I am not sure he got far enough to flunk first year. Maybe after teh
first half of the first year. Yes he seems to not understand a basic
shunt regulator circuit or Kirchoff's laws.

james

From -1889493289077383403
X-Google-Thread: fc2a5,90af4c134c0a64d4
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <auqdnb24quGF72jbRVnygQA@pipex.net>
<e7OdnXkUvdS3NGjbnZ2dnUVZ8qydnZ2d@pipex.net>
<JLSdnScunq5tJ2vbnZ2dneKdnZydnZ2d@pipex.net> <CbOdnZnTO7O-UWvb4p2dnAA@pipex.net>
<IJmdnaiwCoPaMmfbnZ2dneKdnZydnZ2d@pipex.net>
Subject: Re: Instrument Case For Transceiver
Lines: 28
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <d_zKi.121807$Fc.44641@attbi_s21>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1190841353 12.219.135.201 (Wed, 26 Sep 2007 21:15:53 GMT)
NNTP-Posting-Date: Wed, 26 Sep 2007 21:15:53 GMT
Organization: AT&T ASP.att.net
Date: Wed, 26 Sep 2007 21:15:53 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1137

> Yes! My plan is to use a dedicated low power regulator.

>
> By the way, I have found a company in West Sussex called Lincoln
> Binns who do a range of extruded cases which are very competitively
> priced, delivery cost is reasonable. I spoke to them today and they
> are happy to deal with private customers and will supply one offs.
> See http://www.lincolnbinns.com/products.htm
>
>
>
> Charlie.
>
>
> --
> M0WYM

Charley, for that regulator, take a look at Charley Wenzels home page
http://www.techlib.com/electronics/finesse.html. You'll find the circuit
most useful in cleaning up that tuning Voltage by lots of dB. I don't build
an oscillator without it.

Would you let me know the price of that "ECS220" cabinet? And how are you
going to shrink the LCD display to fit it?

Regards
W4ZCB

From -4881876746884591245
X-Google-Thread: fc2a5,a99085f10ad31b01
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 26 Sep 2007 16:43:39 -0500
Date: Wed, 26 Sep 2007 21:43:39 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Has anyone ever removed an antenna tuner from a radio and...
References: <fdb53f$nf2@unix1.cc.ksu.edu> <Uo9Ki.17542$B25.14973@news01.roc.ny>
<fdcn2h$f40@unix1.cc.ksu.edu> <jetKi.12$Ue7.8@newsfe12.lga>
In-Reply-To: <jetKi.12$Ue7.8@newsfe12.lga>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <gvKdnceZ2acWT2fbnZ2dnUVZ_vLinZ2d@bright.net>
Lines: 22

X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace:
sv3-4qmoQiPQNAEvnf1/8GZt3AyHkvacz3VdacAjPE1JBagzEHArDuFBQneQpfpYz3vL9WG6BF6J9vN+cK
h!Z1qWmRx/ROenEHmSfwDtga0MiKVE8c0nuKmfwSLr+lpfvLnfHCdprsPTTQUN8Jos5UHBNs8wz0Lo!
spPnowyNhA==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1138

Agreed! I know which end of the solder stick to grab and I used to do
machine language programming for fun ;) I, no doubt, am one SICK SOB ;)

Scott
N0EDV

xpyttl wrote:

>
> Of course, some folks have a different comfort level with a soldering iron
> than with a keyboard, so I imagine there are some that might see it
> differently.
>
> ..
>
>

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

From -8953312645068465940
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!tethys.csu.net!nntp.csufresno.edu!sn-xt-
sjc-02!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: Wed, 26 Sep 2007 19:09:38 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13fm46rb89sl15@corp.supernews.com>
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<13fj9ngdcp3ggcb@corp.supernews.com> <8MhKi.284525$BX3.86221@newsfe13.lga>

```
<13fjb7o7ntth82@corp.supernews.com> <dyyKi.62730$hP1.3652@newsfe13.lga>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 7
Xref: g2news2.google.com rec.radio.amateur.homebrew:1139

The harmonics should easily go to 30 MHz.  Good measure of sensitivity as
the harmonics decrease as you go higher.  If one band drops greater in
proportion to the others, then that band could have a problem.

Colin  K7FM




From 1370320022069782463
X-Google-Thread: fc2a5,1778456d22f424c7,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k79g2000hse.googlegroups.com!not-for-
mail
From:  happy <sl.santhosh@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: direction finding antennas
Date: Thu, 27 Sep 2007 11:33:06 -0000
Organization: http://groups.google.com
Lines: 6
Message-ID: <1190892786.799273.79300@k79g2000hse.googlegroups.com>
NNTP-Posting-Host: 203.197.166.202
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1190892787 30176 127.0.0.1 (27 Sep 2007 11:33:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 27 Sep 2007 11:33:07 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
X-HTTP-Via: 1.0 proxy3:80 (Squid/2.4.STABLE7)
Complaints-To: groups-abuse@google.com
Injection-Info: k79g2000hse.googlegroups.com; posting-host=203.197.166.202;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1140

Hi,this is santhosh 7th sem BE.
   we actually decided to do a local positioning system as our final
year project.But we got some comments about our projects that
directiionfinding is not an easy thing.so can u suggest some ideas to
accomplish this.
```

From -6983812036169808157
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!gail.ripco.com!
news.eskimo.com!eskimo.com!mzenier
From: mzenier@eskimo.com (Mark Zenier)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: Thu, 27 Sep 2007 04:21:11 GMT
Organization: Eskimo North www.eskimo.com (800) 246-6874
Lines: 49
Message-ID: <fdgg7k$t1e$1@eskinews.eskimo.com>
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<13fj9ngdcp3ggcb@corp.supernews.com> <8MhKi.284525$BX3.86221@newsfe13.lga>
<fdch92$714$1@theodyn.ncf.ca>
NNTP-Posting-Host: eskimo.com
X-Trace: eskinews.eskimo.com 1190904884 29742 204.122.16.13 (27 Sep 2007 14:54:44
GMT)
X-Complaints-To: abuse@eskimo.com
NNTP-Posting-Date: 27 Sep 2007 14:54:44 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1141

In article <fdch92$714$1@theodyn.ncf.ca>,
Michael Black <et472@FreeNet.Carleton.CA> wrote:
>> do you have a link for using a neon lamp as a frequency divider? This is
>> the first reference I've seen for this, and I'm fascinated to learn more
>> about it.
>>
>> Peter
>>
>>
>When I saw Colin start to suggest a tube calibrator, my thought was
>"what will you use for a divider, a neon bulb?"
>
>But like him, I can't put my fingers on a circuit. Undoubtedly
>somewhere someone did build a crystal calibrator with a neon divider
>to get closer together markers, before there were IC dividers.
>
>Another common place would be electronic organs, they'd use neon
>bulb dividers to get the next lower octave from a master oscillator.
>
>I'm sure in those "101 things to do with Neon Bulb" books, or even
>the wide coverage articles in the magazines, would have a divider.

There's a section in my GE "Glow Lamp Manual" on neon dividers.

```
                 sync in  -------------+
                                       |
        250 V ----/\/\/\---+---|*|-----+------|*|-----gnd
```

```
                  5.6M     |   n1             n2
                           |
                           +------|(-----+-------|(----gnd
                           |      c1     |       c2
                           |             +-------  output
                           |
                           |
                           +------|(-----+-------|(----gnd
                                  c3     |       c4
                                         +-------   sync output
```

C2 = 10 * C1 (For 200 Hz output, .005 and .05 uF)
C3 = C4 = 100 pF

The problem here is that neon bulb relaxation oscillators top out at, according to the charts in the book, at between 10 and 30 kilohertz, depending on bulb type.

Mark Zenier mzenier@eskimo.com
Googleproofaddress(account:mzenier provider:eskimo domain:com)

From -8927098879106549285
X-Google-Thread: fc2a5,8369463be39ccb40
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r29g2000hsg.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820 problems.
Date: Thu, 27 Sep 2007 13:04:28 -0700
Organization: http://groups.google.com
Lines: 45
Message-ID: <1190923468.967836.29380@r29g2000hsg.googlegroups.com>
References: <46f25b95$1@clear.net.nz>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1190923470 13744 127.0.0.1 (27 Sep 2007 20:04:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 27 Sep 2007 20:04:30 +0000 (UTC)
In-Reply-To: <46f25b95$1@clear.net.nz>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: r29g2000hsg.googlegroups.com; posting-host=170.121.15.35;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1142

On Sep 20, 7:38 am, cliff wright <c.c.wri...@paradise.net.nz> wrote:

> Hi guys!
> Am still going over the old TS-820 and found another problem re the
> meter. It is important when replacing the meter to check the condition
> of the multiplying resistors on the underchassis "HT" board and adjust
> to suit the actual sensitivity of the meter.
> Mine was reading 730 volts off load for final anode voltage but my
> trusty old Avometer tells me that it was actually 1,040 volts.
> Now this is WAY above the recommended anode voltage for even a 6146B
> but since the tansformer secondary is 800 volts its probably correct.

Whoa, whoa. I know that tube ratings can be bent a little bit, and while there is a tap on the transformer for "800V" this is intended to be 750V to 800V after rectification, with load being drawn.

If you're measuring the voltage without load, you're right, it will be higher than the voltage with load.

You might check that you're using the right tap on the input of the transformer, too. IIRC there are 100V and 120V taps on the input.

> I've now got the voltage reading correctly on the meter, but I'm now
> very convinced that the reason for flashover in some 6146's is simply
> excessive HT voltage. The finals are running in very dangerous
> territory. Just a bit of SWR then Poof!!!

See, if you're transmitting then you draw current and there's no longer quite so HV there. 6146B's will stand up to a good amount of abuse, and usually other components in the final compartment will arc over and give up their smoke before the tubes.

> I'm now considering modifying the case and using a TT21 as a final.
> These can stand the voltage with ease, are very easy to neutralise
> and can give a good 65% efficiency in AB1 up to 30 Mhz. Will give me
> around 80 watts out I reckon.

Well, if you really want to, sure. But 6146B's served fine in these radios for decades. Yeah, Kenwood pushed some of the numbers past a strict reading of the tube limits but everyone pushed their 6146B's a little past ICAS. (Remember, those were the days when Swan claimed to get 600W out of a couple of sweep tubes.)

Tim.

From 8222387043564797280
X-Google-Thread: fc2a5,1778456d22f424c7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!roadrunner.com!not-for-mail

Message-ID: <46FC12F9.7030409@nettally.com>
Date: Thu, 27 Sep 2007 16:30:49 -0400
From: **THE-RFI-EMI-GUY** <rhyolite@nettally.com>
Organization: Central Scrutinizer
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To: happy <sl.santhosh@gmail.com>
Subject: Re: direction finding antennas
References: <1190892786.799273.79300@k79g2000hse.googlegroups.com>
In-Reply-To: <1190892786.799273.79300@k79g2000hse.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 26
NNTP-Posting-Host: 65.33.235.231
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:1143

Google for "doppler direction finding" and look for the ham radio
construction projects. Really simple ones exist which will give you a
bearing with two antennas (manual pointing) and slightly more
sophisticated ones provide a digital bearing from four antennas. You
will need an FM receiver for the detector.

happy wrote:

>Hi,this is santhosh 7th sem BE.
>   we actually decided to do a local positioning system as our final
>year project.But we got some comments about our projects that
>directiionfinding is not an easy thing.so can u suggest some ideas to
>accomplish this.
>
>
>

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From 6839827903107366825
X-Google-Thread: fc2a5,1778456d22f424c7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!19g2000hsx.googlegroups.com!not-for-

mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: direction finding antennas
Date: Thu, 27 Sep 2007 15:08:39 -0700
Organization: http://groups.google.com
Lines: 38
Message-ID: <1190930919.881051.64790@19g2000hsx.googlegroups.com>
References: <1190892786.799273.79300@k79g2000hse.googlegroups.com>
NNTP-Posting-Host: 192.25.142.225
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1190930920 8729 127.0.0.1 (27 Sep 2007 22:08:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 27 Sep 2007 22:08:40 +0000 (UTC)
In-Reply-To: <1190892786.799273.79300@k79g2000hse.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.7)
Gecko/20070914 Firefox/2.0.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 19g2000hsx.googlegroups.com; posting-host=192.25.142.225;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1144

On Sep 27, 4:33 am, happy <sl.santh...@gmail.com> wrote:
> Hi,this is santhosh 7th sem BE.
>   we actually decided to do a local positioning system as our final
> year project.But we got some comments about our projects that
> directiionfinding is not an easy thing.so can u suggest some ideas to
> accomplish this.

Lots can go wrong in RF geolocation systems, because of things like reflections of the transmitted RF off other objects and trying to resolve two or more sources on the same frequency. Some ways to detect _direction_ include the already-mentioned Doppler systems, systems where you detect the phase of the RF received at multiple antenna elements (you gotta account for the mutual coupling of the elements...), systems where you observe the maximum response of a directional gain antenna (e.g. rotating a Yagi antenna), systems where you look for the direction of a null (e.g. a loop antenna, sometimes with a sense antenna to resolve the ambiguity of their "figure-8" pattern that has two nulls, rotated till the signal nulls), and systems that use the directionality of two or more antennas, using the ratio of their amplitude responses to find a line of bearing (like two loops at right angles, so you have two figure-8's at right angles; if one antenna is nulled, the direction is aligned with the other antenna's peak response; if you get equal amplitudes from both, the line of bearing is mid way between the two...a sense antenna can again resolve the ambiguity).

All of those give lines of bearing. To get geolocation, you need something more, like a triangulation system where two or more lines-of-bearing cross where the signal's coming from; or a system that measures the difference of time-of-arrival of the same signal at several different locations that are time-synchronized.

I'm sure you can find whole books on RF direction-finding and RF geolocation.

Cheers,
Tom

```
From -6822709046964627096
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe21.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<13fj9ngdcp3ggcb@corp.supernews.com> <8MhKi.284525$BX3.86221@newsfe13.lga>
<fdch92$714$1@theodyn.ncf.ca> <fdgg7k$t1e$1@eskinews.eskimo.com>
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <%QWKi.105110$GO6.20407@newsfe21.lga>
Date: Thu, 27 Sep 2007 19:16:11 -0400
NNTP-Posting-Host: 68.229.79.253
X-Complaints-To: admin@cox.net
X-Trace: newsfe21.lga 1190934971 68.229.79.253 (Thu, 27 Sep 2007 16:16:11 MST)
NNTP-Posting-Date: Thu, 27 Sep 2007 16:16:11 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:1145
```

"Mark Zenier" <mzenier@eskimo.com> wrote in message
news:fdgg7k$t1e$1@eskinews.eskimo.com...

```
> In article <fdch92$714$1@theodyn.ncf.ca>,
 > The problem here is that neon bulb relaxation oscillators top out
> at, according to the charts in the book, at between 10 and 30 kilohertz,
> depending on bulb type.
>
> Mark Zenier  mzenier@eskimo.com
> Googleproofaddress(account:mzenier provider:eskimo domain:com)
>
```

I was curious if there was a limit on the upper frequency, and I was wondering about the waveform as well; that is if the circuit can produce strong harmonics up into the upper HF regions. It would be an interesting project to build!

Pete

From -5238201765219344196
X-Google-Thread: fc2a5,c54b1e4c8e5c43f5,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!19g2000hsx.googlegroups.com!not-for-mail
From: Harry7 <cpa599@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Link coupled tuner - physical balance of link?
Date: Thu, 27 Sep 2007 23:38:39 -0000
Organization: http://groups.google.com
Lines: 19
Message-ID: <1190936319.808545.94050@19g2000hsx.googlegroups.com>
NNTP-Posting-Host: 24.211.34.179
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1190936320 28167 127.0.0.1 (27 Sep 2007 23:38:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 27 Sep 2007 23:38:40 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 19g2000hsx.googlegroups.com; posting-host=24.211.34.179;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1146

I want to add 160 meter capability to my HB link coupled antenna tuner.

Can I simply install an extra inductor to switch into the circuit for 160 & not worry about physical balance relative to the link

```
oooo OO oooo   = current arrangement



                       o
                       o
                       o = add in inductor for 160
                       o
                       o
```

```
oooo OO oooo_]  = switch          = proposed arrangement
```

From 8370527050824844496
X-Google-Thread: fc2a5,8369463be39ccb40
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!
news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 27 Sep 2007 21:45:46 -0500
Date: Fri, 28 Sep 2007 14:45:48 +1200
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820 problems.
References: <46f25b95$1@clear.net.nz>
<1190923468.967836.29380@r29g2000hsg.googlegroups.com>
In-Reply-To: <1190923468.967836.29380@r29g2000hsg.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000777-2, 28/09/2007), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-0-69.dsl.telstraclear.net
Message-ID: <46fc6ad7@clear.net.nz>
X-Original-Trace: 28 Sep 2007 14:45:43 +1200, 121-72-0-69.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 83
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-Trace: sv3-yIu+qQb9EwgXJyu/
ZVMpjL0O9uVlqlWOLP2W6B43cxMJ3juteQp5qwf75gcWmEZoYC8Td/xN44js6Lq!
Wh8DIofc0xNdDEI4w9wqQcs5AEyzrfi/5P0VvAyovZvUkEGGNZJKlv0=
X-Complaints-To: Complaints to abuse@clear.net.nz
X-DMCA-Complaints-To: Complaints to abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1147

Tim Shoppa wrote:
> On Sep 20, 7:38 am, cliff wright <c.c.wri...@paradise.net.nz> wrote:
>
>>Hi guys!
>>Am still going over the old TS-820 and found another problem re the
>>meter. It is important when replacing the meter to check the condition
>>of the multiplying resistors on the underchassis "HT" board and adjust

>>to suit the actual sensitivity of the meter.
>>Mine was reading 730 volts off load for final anode voltage but my
>>trusty old Avometer tells me that it was actually 1,040 volts.
>>Now this is WAY above the recommended anode voltage for even a 6146B
>>but since the tansformer secondary is 800 volts its probably correct.
>
>
>
> Whoa, whoa. I know that tube ratings can be bent a little bit, and
> while there is a tap on the transformer for "800V" this is intended to
> be 750V to 800V after rectification, with load being drawn.
>
> If you're measuring the voltage without load, you're right, it will be
> higher than the voltage with load.
>
> You might check that you're using the right tap on the input of the
> transformer, too. IIRC there are 100V and 120V taps on the input.
>
>
>>I've now got the voltage reading correctly on the meter, but I'm now
>>very convinced that the reason for flashover in some 6146's is simply
>>excessive HT voltage. The finals are running in very dangerous
>>territory. Just a bit of SWR then Poof!!!
>
>
> See, if you're transmitting then you draw current and there's no
> longer quite so HV there. 6146B's will stand up to a good amount of
> abuse, and usually other components in the final compartment will arc
> over and give up their smoke before the tubes.
>
>
>>I'm now considering modifying the case and using a TT21 as a final.
>>These can stand the voltage with ease, are very easy to neutralise
>>and can give a good 65% efficiency in AB1 up to 30 Mhz. Will give me
>>around 80 watts out I reckon.
>
>
> Well, if you really want to, sure. But 6146B's served fine in these
> radios for decades. Yeah, Kenwood pushed some of the numbers past a
> strict reading of the tube limits but everyone pushed their 6146B's a
> little past ICAS. (Remember, those were the days when Swan claimed to
> get 600W out of a couple of sweep tubes.)
>
> Tim.
>
Well Tim OM.
Don't worry, I checked the voltage both on and off load. Since I've been
a ham for 50 years+ and a professional electronics engineer (now
retired) I'm pretty familiar with PSU regulation problems.
BTW the secondary is labelled 800 volts both on the transformer and in
the service manual, so there is no possibilty of error there.
With 60 mA of anode current for the 2 finals the voltage is 970 and
when putting out 75 watts (CW) it is still 890. (using 3 different meters)

However as you say it was made in a time of wishful thinking!!!!
Looked up an old ARRL handbook from the 70's while searching for ideas
and found a 4 sweep tube final allegedly putting out nearly 1KW.
However call me an old conservative (engineering wise anyway) but I
still like a factor of safety.
I'm off to a local junk sale in a couple of weeks and if I can get some
more 6146B's (or 12 volt equivalent) then I'll stock up and flog them to
death! But if I can get another TT21 (KT88 with a top cap anode) then
I'll drop down the tube bases, enlarge the chassis hole and replace the
6146's altogether.
As you probably know the TT21 has a 45 watt dissapation rating and can
be run safely up to 1.2KV in class AB1.
Then I can get the rated output without "blowing a gasket".
BTW what I said about a grid current meter is VERY important!!!
Nothing tells you if a class AB1 final is working properly as well.
In actual fact a pair of 6146B's would be VERY hard pressed to deliver
more than 130 watts ouput, even with an optimally designed final tank
circuit in AB1. Very few transcievers have such a good Pi network on all
bands either!
In conclusion I should point out that I mostly work CW on 14MHz, with
the odd excursion into SSB.

73's Cliff Wright ZL1BDA ex G3NIA

From 8075589037573455024
X-Google-Thread: fc2a5,f0768beb2500250f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!w3g2000hsg.googlegroups.com!not-for-mail
From: "JRCCrabtree@gmail.com" <JRCCrabtree@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Single Tube Modulator
Date: Thu, 27 Sep 2007 20:40:05 -0700
Organization: http://groups.google.com
Lines: 22
Message-ID: <1190950805.053488.171600@w3g2000hsg.googlegroups.com>
References: <13dem6fl1r7ok85@corp.supernews.com>
   <Pine.NEB.4.64.0709051134200.2693@panix2.panix.com>
   <1189010843.922356.58020@y42g2000hsy.googlegroups.com>
   <kLBDi.86443$Fc.12087@attbi_s21>
NNTP-Posting-Host: 64.12.116.144
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1190950805 15408 127.0.0.1 (28 Sep 2007 03:40:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 28 Sep 2007 03:40:05 +0000 (UTC)
Cc: W4ZCB@mchsi.com
In-Reply-To: <kLBDi.86443$Fc.12087@attbi_s21>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows 98),gzip(gfe),gzip(gfe)

```
X-HTTP-Via: HTTP/1.1 spider-mtc-th08.proxy.aol.com[400C70E8] (Prism/1.2.1), HTTP/
1.1 cache-mtc-ac15.proxy.aol.com[400C7490] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: w3g2000hsg.googlegroups.com; posting-host=64.12.116.144;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1148
```

On Sep 5, 12:33?pm, "Harold E. Johnson" <W4...@mchsi.com> wrote:

>
> Still looking for my class B/A article on the 304TL Heising bias shift
> modulator. Am certain that the author was Bill Orr, W6SAI, cause I called
> him on the phone when my 304TH didn't work as advertised. Very nice and
> helpful to an almost beginner, but that article doesn't exist in any QST to
> back before I would have read it. As I now recall, I think maybe Bill wrote
> it up in CQ magazine and got paid for it. Don't have those on CD's.
>
> Regards
> W4ZCB

Harold

The article was "The Bias-Shift Modulator", by Bill Orr, CQ, April
1954, pp 32-38, 68. At the top of the article he was described as
being a contributing editor.

HTH and 73

John KC0G

```
From -3191662611726411351
X-Google-Thread: fc2a5,c9c795a1236e70ea,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!57g2000hsv.googlegroups.com!not-for-
mail
From:  "n.dilipkumar09@gmail.com" <n.dilipkumar09@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: i am new
Date: Fri, 28 Sep 2007 11:06:00 -0000
Organization: http://groups.google.com
Lines: 5
Message-ID: <1190977560.162301.307640@57g2000hsv.googlegroups.com>
NNTP-Posting-Host: 122.167.105.82
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1190977560 10357 127.0.0.1 (28 Sep 2007 11:06:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 28 Sep 2007 11:06:00 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
```

```
Complaints-To: groups-abuse@google.com
Injection-Info: 57g2000hsv.googlegroups.com; posting-host=122.167.105.82;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1149

hey i am dili, new to this field. can any one please guide me to
install the assembly? well i am passionate about radio electronics
unfortunately i didn't get a chance to get in there. i recently
visited this site waitin for ur response ....



From 5840980126281247316
X-Google-Thread: fc2a5,8369463be39ccb40
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!19g2000hsx.googlegroups.com!not-for-
mail
From:  "n.dilipkumar09@gmail.com" <n.dilipkumar09@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820 problems.
Date: Fri, 28 Sep 2007 11:15:29 -0000
Organization: http://groups.google.com
Lines: 29
Message-ID: <1190978129.715936.210920@19g2000hsx.googlegroups.com>
References: <46f25b95$1@clear.net.nz>
NNTP-Posting-Host: 122.167.105.82
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1190978129 12305 127.0.0.1 (28 Sep 2007 11:15:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 28 Sep 2007 11:15:29 +0000 (UTC)
In-Reply-To: <46f25b95$1@clear.net.nz>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 19g2000hsx.googlegroups.com; posting-host=122.167.105.82;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1150

On Sep 20, 4:38 pm, cliff wright <c.c.wri...@paradise.net.nz> wrote:
> Hi guys!
> Am still going over the old TS-820 and found another problem re the
> meter. It is important when replacing the meter to check the condition
> of the multiplying resistors on the underchassis "HT" board and adjust
> to suit the actual sensitivity of the meter.
> Mine was reading 730 volts off load for final anode voltage but my
> trusty old Avometer tells me that it was actually 1,040 volts.
> Now this is WAY above the recommended anode voltage for even a 6146B
> but since the tansformer secondary is 800 volts its probably correct.
> I've now got the voltage reading correctly on the meter, but I'm now
> very convinced that the reason for flashover in some 6146's is simply
```

> excessive HT voltage. The finals are running in very dangerous
> territory. Just a bit of SWR then Poof!!!
> I'm now considering modifying the case and using a TT21 as a final.
> These can stand the voltage with ease, are very easy to neutralise
> and can give a good 65% efficiency in AB1 up to 30 Mhz. Will give me
> around 80 watts out I reckon.
> Just that my final box will be a bit taller and the old case will need a
> bit of chopping about.
> But then its an old rig and it might as well work properly, even
> modified. Anyone elese tried major final tube changes in the Kenwood
> hybrids?
> Regards Cliff Wright ZL1BDA ex G3NIA.

i'm considering to go for the same do u hav any ckt idea as well as
documents to create my own as of now i quiet new to this field dear
cliff wright.....

From -3956682429305376084
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newshub.sdsu.edu!tethys.csu.net!nntp.csufresno.edu!sn-xt-sjc-03!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: Fri, 28 Sep 2007 06:18:47 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13fpvq0b32f11eb@corp.supernews.com>
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 14
Xref: g2news2.google.com rec.radio.amateur.homebrew:1151

Ok, finally found a single tube 100 kHz. crystal oscillator that uses a neon bulb relaxation oscillator that is synchronized to achieve 10 kHz signals. The article appears in the fifth edition of Amateur Radio Techniques, on page 287 and 288. It cites the original article from DL-QTC (August 1966).

The relaxations circuit is set up on the screen of the pentode oscillator, which is also used as the feedback source for the crystal. So, it is used apparently used as a synchronized 10 kHz source for the oscillator tube, which is then operated as a mixer. So, we do not need the neon bulb to operate at a high frequency.

73, Colin K7FM

From -2135938467806825674
X-Google-Thread: fc2a5,90af4c134c0a64d4
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 28 Sep 2007 15:20:55 -0500
Date: Fri, 28 Sep 2007 21:21:10 +0100
From: charlie <wehatespam@wymsey.co.uk>
User-Agent: Thunderbird 1.5.0.12 (X11/20060911)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Instrument Case For Transceiver
References: <auqdnb24quGF72jbRVnygQA@pipex.net>
<e7OdnXkUvdS3NGjbnZ2dnUVZ8qydnZ2d@pipex.net>
<JLSdnScunq5tJ2vbnZ2dneKdnZydnZ2d@pipex.net> <CbOdnZnTO7O-UWvb4p2dnAA@pipex.net>
<IJmdnaiwCoPaMmfbnZ2dneKdnZydnZ2d@pipex.net> <d_zKi.121807$Fc.44641@attbi_s21>
In-Reply-To: <d_zKi.121807$Fc.44641@attbi_s21>
X-Enigmail-Version: 0.95.2
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Message-ID: <6e6dnZJ_soa1_2DbnZ2dnUVZ8q6unZ2d@pipex.net>
Lines: 61
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 85.210.28.50
X-Trace: sv3-s7j+yEtMGZ/
lNdwiWWOksZ9ETfVg+HIRvWThT3PM6vZlOy62k+YMgARdY4HFlh4edyBzeOEPGST0lkA!ZV1/
huaMTuQJYa+ao7ex6uDi/TaFh98TkRn3HVcrhGHNWdzMnvxMH5l9r1ftFdF+eFepBvppvFYh!
6xNKfoJ3x+w2MnIcHpjqQTz3
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1152

Harold E. Johnson wrote:
>> Yes! My plan is to use a dedicated low power regulator.
>>
>> By the way, I have found a company in West Sussex called Lincoln
>> Binns who do a range of extruded cases which are very competitively
>> priced, delivery cost is reasonable. I spoke to them today and they
>> are happy to deal with private customers and will supply one offs.
>> See http://www.lincolnbinns.com/products.htm
>>
>>

>>
>> Charlie.
>>
>>
>> --
>> M0WYM
>
> Charley, for that regulator, take a look at Charley Wenzels home page http://www.techlib.com/electronics/finesse.html. You'll find the circuit most useful in cleaning up that tuning Voltage by lots of dB. I don't build an oscillator without it.
>
> Would you let me know the price of that "ECS220" cabinet? And how are you going to shrink the LCD display to fit it?
>
> Regards
> W4ZCB
>
>

Harold,

Thanks for that link to Charley Wenzil's site, it looks very useful.

The case I am going to use is the EDS220 not the ECS220. The ECS box is approx $20 and EDS is approx $36. Panels around $2.60 and bezels are approx $2.50 each. All prices(UK �) here: http://www.lincolnbinns.com/e_case_prices.htm . By the way , I ordered the case and was told that they would dispatch it today so I will let you know what the quality is like. I suspect that you can similar cases cheaper in the US.

The counter is a kit with an 8 digit display and programmable offsets so it can measure the VFO frequency. The kit costs almost as much as the BITX20A at approx $80! I had aimed to get this beastie in at under �100 ($200) but it's going to be around $250 in the end. You can see the counter at http://www.cumbriadesigns.co.uk/Minicounter.htm The display piggybacks on the counter board which is 43mm deep and will attach to the panel. Looking at the case drawing I have a couple of mm to play with!

I am planning to use a led bargraph to indicate signal strength, SWR & power, not accurate but useful indicators.

Charlie.

--
M0WYM
www.radiowymsey.org

From -8549940464364920842
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 29 Sep 2007 00:20:16 -0500
Message-Id: <3n31t4-i6s.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Newsgroups: rec.radio.amateur.homebrew
Date: Sat, 29 Sep 2007 00:16:51 -0500
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<13fpvq0b32f11eb@corp.supernews.com>
Organization: the clifto consortium
User-Agent: KNode/0.10.5
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 9
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.15.125.52
X-Trace: sv3-3Aap7TTniMwHBH18bSpa8xkgTMmcB+mho2PzutEgWQFteud/ssk/
kZ6vadyucgVzIXgwsf77IJ2yev8!+38D9Y1RRgA3ivrDyzkjO+TcKV94o0Q+WmD/N5//
Yo+oC+wjMJ2kPm4n19qS/PObp/ubCoWIfZbN!SN5XfOnB6l1j
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1153

COLIN LAMB wrote:
> Ok, finally found a single tube 100 kHz. crystal oscillator that uses a neon
> bulb relaxation oscillator that is synchronized to achieve 10 kHz signals.

Phase Locked Lightbulbs? :)

--
One phrase that explains 99% of all idiot driving:
"You can't block traffic if you're not in the way."

From -2571723384856188075
X-Google-Thread: fc2a5,a99085f10ad31b01
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o80g2000hse.googlegroups.com!not-for-mail
From: Andrew VK3BFA <vk3bfa@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Has anyone ever removed an antenna tuner from a radio and...
Date: Fri, 28 Sep 2007 23:41:58 -0700
Organization: http://groups.google.com
Lines: 32
Message-ID: <1191048118.601278.276800@o80g2000hse.googlegroups.com>
References: <fdb53f$nf2@unix1.cc.ksu.edu>
NNTP-Posting-Host: 218.215.148.137
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1191048118 3850 127.0.0.1 (29 Sep 2007 06:41:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 29 Sep 2007 06:41:58 +0000 (UTC)
In-Reply-To: <fdb53f$nf2@unix1.cc.ksu.edu>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.7) Gecko/20070914 Firefox/2.0.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o80g2000hse.googlegroups.com; posting-host=218.215.148.137;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1154

On Sep 26, 12:14 am, mcalh...@ksu.edu wrote:
> This may not seem like a "homebrew" question, but it is!
>
> I have a Kenwood 440SAT which is failing, but the AT (Antenna Tuner)
> is still working. Since the 440SAT can (could) also be purchased as a
> 440S (i.e., without the AT), the AT may be a stand-alone "module", and
> I'd like to remove it and package it separately to use with a new radio.
>
>

It would be a lot of work, for a somewhat mediocre result....and speaking from working on the ATU in several TS440, here goes...

The tuner band switching is done via the radios CPU - could be hard wired via a switch. But that sort of defeats the concept of an auto ATU - still, amateurs have done weirder things than that before...

The SWR/tuning sensing is inside the ATU, no probs there...it does feed back to the PA as a high SWR protector, how to use it would require some thinking...

BUT the thing has a fairly limited tuning range anyway - its small, has to fit inside the radio, so its ability to match to a wide range is not very good (cant remember the figures)

Why not just fix the radio? - they go fine, have very little commercial value so ideal mobile/backup radio - no great loss if its stolen out of a vehicle. The Kenwood manual is excellent, easy to read to fault find, and there is even a YAHOO group devoted to the beast...

73 de VK3BFA Andrew.

```
From 6541888466513522088
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!volia.net!news2.volia.net!feed-
A.news.volia.net!news.ecp.fr!feeder1.cambrium.nl!feed.tweaknews.nl!
138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-05!sn-post-ams-02!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: Sat, 29 Sep 2007 02:12:13 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13frukvdfd5okeb@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<13fpvq0b32f11eb@corp.supernews.com> <3n31t4-i6s.ln1@remote.clifto.com>
In-Reply-To: <3n31t4-i6s.ln1@remote.clifto.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 18
Xref: g2news2.google.com rec.radio.amateur.homebrew:1155
```

clifto wrote:

> COLIN LAMB wrote:
>
>>Ok, finally found a single tube 100 kHz. crystal oscillator that uses a neon
>>bulb relaxation oscillator that is synchronized to achieve 10 kHz signals.
>
>
> Phase Locked Lightbulbs? :)
>

Not really so bizarre; there are stories of certain computers with light-sensitive neon bulbs in the logic that were affected by ceiling fluorescent lighting when panels were removed from the racks...

Regards,

Michael

```
From -2865409337648938360
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!feeder.news-service.com!sn-xt-ams-06!sn-xt-ams-03!sn-post-
ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: John Ferrell <johnferrell@sprintmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: Sat, 29 Sep 2007 08:18:03 -0400
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <g3gsf3912md97uth2ifrr3r0ouq57l1jv2@4ax.com>
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<13fpvq0b32f11eb@corp.supernews.com> <3n31t4-i6s.ln1@remote.clifto.com>
<13frukvdfd5okeb@corp.supernews.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 33
Xref: g2news2.google.com rec.radio.amateur.homebrew:1156

On Sat, 29 Sep 2007 02:12:13 -0500, msg <msg@_cybertheque.org_> wrote:

>clifto wrote:
>
>> COLIN LAMB wrote:
>>
>>>Ok, finally found a single tube 100 kHz. crystal oscillator that uses a neon
>>>bulb relaxation oscillator that is synchronized to achieve 10 kHz signals.
>>
>>
>> Phase Locked Lightbulbs? :)
>>
>
>Not really so bizarre; there are stories of certain computers with light-
>sensitive neon bulbs in the logic that were affected by ceiling fluorescent
>lighting when panels were removed from the racks...
>
>Regards,
>
>Michael

The trigger point does shift with light or RF. Black paint on the lamp
will take care of the light.

In my "junk that should have been thrown away" I have a frequency
counter that I built from an artical in QST many years back that used
10 neons per digit. Many years after the fact I realized that it might
have been more practical if the Neon high voltage had been gated off
during the counting phase and on only to display the count. But then
it would not have looked nearly as impressive during operation.

John Ferrell W8CCW
"Life is easier if you learn to
plow around the stumps".

```
From 6859469273234998346
X-Google-Thread: fc2a5,85ac841c9bfa7a53,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 29 Sep 2007 07:52:35 -0500
From: "jack" <jdwalton@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: The looming disaster in over-the-air TV
Date: Sat, 29 Sep 2007 08:53:54 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Message-ID: <IYidnTeCmfgO12PbnZ2dnUVZ_vmlnZ2d@comcast.com>
Lines: 11
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.249.69.72
X-Trace: sv3-WE50Y3snLoam/QXJgiIxm/1GEaS/
Tjo0bCmIYF5b9puWp5/+eQUVifKMXWXTwCyLNxHZr9jyIu8Z3WK!
v9IXmo9y1lCnnSUgm0NqgZTIfBkZ6Jqx2w7AA4oFRWgHlbGTCGrfnmez/uK4D43p0kUvUnAVQFN0!
eksXSqwOGarW8i5t1YBCFb3PsMi0
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1157
```

used to be that my biggest problem with TV was the interference I caused to an old Philco set my parents had. actually, I did not cause the interference, it was the crummy front end on this particular set, but I filtered anyway...

February 2009 -- the current issue of Nuts n Volts has a longish article on the scramble for set top boxes/converters for the new digital broadcast standards. Everyone is going to get a $40 voucher to purchase 2 converters...wait until talk radio gets wind of this.

```
From -8685271652686933274
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newshub.sdsu.edu!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe13.lga.POSTED!53ab2750!not-for-mail
```

```
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<13fpvq0b32f11eb@corp.supernews.com> <3n31t4-i6s.ln1@remote.clifto.com>
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <TasLi.63444$hP1.42164@newsfe13.lga>
Date: Sat, 29 Sep 2007 09:12:19 -0400
NNTP-Posting-Host: 68.229.79.253
X-Complaints-To: admin@cox.net
X-Trace: newsfe13.lga 1191071539 68.229.79.253 (Sat, 29 Sep 2007 06:12:19 MST)
NNTP-Posting-Date: Sat, 29 Sep 2007 06:12:19 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:1158
```

"clifto" <clifto@gmail.com> wrote in message
news:3n31t4-i6s.ln1@remote.clifto.com...

> Phase Locked Lightbulbs? :)
>

There was a circuit where numerous NE2s were wired on the circumference of a circle as individual relaxation oscillators. At first, the firing pattern was
entirely random, but over time the lamps would synchronize and fire in order!
The light from an adjacent lamp would lower the firing point the one next to it.

Pete

```
From 1300971537666046174
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
140.99.99.194.MISMATCH!news-in-02.newsfeed.easynews.com!easynews.com!easynews!sn-
xt-sjc-02!sn-xt-sjc-06!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
```

```
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: Sat, 29 Sep 2007 06:24:37 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13fskgnar94ni2d@corp.supernews.com>
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<13fpvq0b32f11eb@corp.supernews.com> <3n31t4-i6s.ln1@remote.clifto.com>
<13frukvdfd5okeb@corp.supernews.com> <g3gsf3912md97uth2ifrr3r0ouq57l1jv2@4ax.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 30
Xref: g2news2.google.com rec.radio.amateur.homebrew:1159
```

The neon bulb was a wonderful device for a young boy to play with - and for those that do not entirely grow up. It energized at about 60 volts, although that varied from tube to tube. ARC-5 receivers used them across their input, to discharge static electricity. They were great for hams with meager funds since you could place one near the final and determine if there were parasitics, by the color of the glow.

Sensitivity could be increased by putting a dc voltage on the plates just under what it took to fire. Then, a slight amount of rf would add to that base and fire the bulb.

Little pocket testers would distinguish between ac or dc, by simply looling to see whether one or two plates were lighted.

Light wuld affect the sensitivity, as well as heat. You could apply a voltage just under the firing voltage, then put your finger near it and it would light.

Although I never built one, it probably would have made a great lightning indicator, with directional probes connected to indicate which quadrant the lightning was coming from.

As I recall, we used to salvage neon bulbs from old flouroscent light starters.

And, of course, they were good for neutralizing those old triode finals.

73, Colin K7FM

```
From -1840071712609476929
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!news.kjsl.com!
```

ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: 29 Sep 2007 14:17:42 GMT
Organization: The National Capital FreeNet
Lines: 33
Message-ID: <fdlmq6$k84$1@theodyn.ncf.ca>
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<13fpvq0b32f11eb@corp.supernews.com> <3n31t4-i6s.ln1@remote.clifto.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1191075462 20740 134.117.136.48 (29 Sep 2007 14:17:42 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 29 Sep 2007 14:17:42 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1161

clifto (clifto@gmail.com) writes:
> COLIN LAMB wrote:
>> Ok, finally found a single tube 100 kHz. crystal oscillator that uses a neon
>> bulb relaxation oscillator that is synchronized to achieve 10 kHz signals.
>
> Phase Locked Lightbulbs? :)
>
Well no, because there's no loop.

It wasn't uncommon to inject a bit of signal from one source to an
oscillator to synchronize them.

That's what was used in oscilliscopes that didn't have triggered
sweep.

I seem to recall that's what was used to synchronize TV set
vertical sweep to the incoming signal.

THere were lots of examples.

PLL's were too costly and complicated during the tube era for
common use, and any real referenfes to PLLs in the hobby magazines
didn't arrive till the late fifties.

Early seventies, and they were all over the place, because ICs
had made them a lot more practical. ANd I suppose there was
suddenly a need; after all, most of the early PLL synthesizers
described in the ham magazines were for 2M FM use, where crystal
control was used in virtually all rigs, but the cost was too
much when you wanted a lot of channels.

   Michael VE2BVW

From -480739068074946106

X-Google-Thread: 108122,5d9177f8a9361b2f,start
X-Google-Thread: fc2a5,5d9177f8a9361b2f,start
X-Google-Attributes: gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc03.POSTED!ae6a6c4b!not-for-mail
From: Wes Groleau <groleau+news@freeshell.org>
Reply-To: groleau+nntp@freeshell.org
Organization: Ain't No Organization Here!
User-Agent: Thunderbird 2.0.0.6 (Macintosh/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Help with H89/H19
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 21
Message-ID: <l6xLi.4096$Ww5.1473@trnddc03>
Date: Sat, 29 Sep 2007 18:48:49 GMT
NNTP-Posting-Host: 72.86.109.157
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc03 1191091729 72.86.109.157 (Sat, 29 Sep 2007 14:48:49 EDT)
NNTP-Posting-Date: Sat, 29 Sep 2007 14:48:49 EDT
Xref: g2news2.google.com rec.radio.amateur.equipment:1023
rec.radio.amateur.homebrew:1162
X-Original-Bytes: 1535

Sorry for being off-topic, but the heath/zenith NG seems to have died.
Does it help if I have an expired ham license? :-)

I have need of an RS-232 terminal, and I know that
my H89 (with no floppy--boat anchor!) contains one.

Can anyone point me to details for disconnecting the
H19 board from the CPU board and connecting it instead
to the DB-25 on the back?

(Even better, connecting it directly to a DB-9 which I'd have to buy)

I need it to configure a Sun Ultra, since I don't have a Sun monitor.

Thanks

--
Wes Groleau

Free speech has its limits
http://Ideas.Lang-Learn.us/WWW?itemid=99

From 5424948817673512552
X-Google-Thread: fc2a5,c54b1e4c8e5c43f5
X-Google-Attributes: gidfc2a5,public,usenet

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k79g2000hse.googlegroups.com!not-for-
mail
From:  Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Link coupled tuner - physical balance of link?
Date: Sat, 29 Sep 2007 12:03:55 -0700
Organization: http://groups.google.com
Lines: 34
Message-ID: <1191092635.552005.226730@k79g2000hse.googlegroups.com>
References: <1190936319.808545.94050@19g2000hsx.googlegroups.com>
NNTP-Posting-Host: 97.84.159.244
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1191092635 26910 127.0.0.1 (29 Sep 2007 19:03:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 29 Sep 2007 19:03:55 +0000 (UTC)
In-Reply-To: <1190936319.808545.94050@19g2000hsx.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; IEMB3; IEMB3),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k79g2000hse.googlegroups.com; posting-host=97.84.159.244;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1163
```

On Sep 27, 7:38 pm, Harry7 <cpa...@gmail.com> wrote:

```
> I want to add 160 meter capability to my HB link coupled antenna
> tuner.
>
> Can I simply install an extra inductor to switch into the circuit for
> 160 & not worry about physical balance relative to the link
>
> oooo OO oooo   = current arrangement
>
>                         o
>                         o
>                         o = add in inductor for 160
>                         o
>                         o
> oooo OO oooo_]  = switch          = proposed arrangement
```

The tank will prefer turns added symmetrically to each end for RF
balance...
Having said that I doubt that the Sun will stop shining if it is
mildly unbalanced to the link placement...
If it is added turns at 90 degrees to the present tank - like your
diagram - it won't work worth a hoot...

Now, having made those prognostications let me suspect that simply adding turns to the tank, symmetrically or not, is the least of your problems... You need more link inductance (double what you have on 80) and you need more capacity in your series cap on the link circuit (lots more!)

denny / k8do

From -84020665257457747
X-Google-Thread: 108122,5d9177f8a9361b2f
X-Google-Thread: fc2a5,5d9177f8a9361b2f
X-Google-Attributes: gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!sn-xt-sjc-04!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Help with H89/H19
Date: Sat, 29 Sep 2007 14:05:46 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13ft8esi0adnl43@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <l6xLi.4096$Ww5.1473@trnddc03>
In-Reply-To: <l6xLi.4096$Ww5.1473@trnddc03>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 25
Xref: g2news2.google.com rec.radio.amateur.equipment:1024 rec.radio.amateur.homebrew:1164

Wes Groleau wrote:

<snip>

>
> Can anyone point me to details for disconnecting the
> H19 board from the CPU board and connecting it instead
> to the DB-25 on the back?
>
> (Even better, connecting it directly to a DB-9 which I'd have to buy)
>
> I need it to configure a Sun Ultra, since I don't have a Sun monitor.
>
> Thanks
>

What is preventing you from using a PC (desktop or laptop) or a Mac running a terminal emulator as your console terminal for the Sun WS?

That would involve somewhat less work than converting the H89 and
you would have the benefit of emulating a terminal type appropriate
for the Sun serial console.

Regards,

Michael

```
From -158600273642188080
X-Google-Thread: fc2a5,c54b1e4c8e5c43f5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!22g2000hsm.googlegroups.com!not-for-
mail
From:  Harry7 <cpa599@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Link coupled tuner - physical balance of link?
Date: Sat, 29 Sep 2007 21:08:26 -0000
Organization: http://groups.google.com
Lines: 42
Message-ID: <1191100106.870350.42660@22g2000hsm.googlegroups.com>
References: <1190936319.808545.94050@19g2000hsx.googlegroups.com>
   <1191092635.552005.226730@k79g2000hse.googlegroups.com>
NNTP-Posting-Host: 24.211.34.179
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1191100107 21306 127.0.0.1 (29 Sep 2007 21:08:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 29 Sep 2007 21:08:27 +0000 (UTC)
In-Reply-To: <1191092635.552005.226730@k79g2000hse.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.7)
Gecko/20070914 Firefox/2.0.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 22g2000hsm.googlegroups.com; posting-host=24.211.34.179;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1165
```

```
On Sep 29, 3:03 pm, Denny <k...@mailblocks.com> wrote:
> On Sep 27, 7:38 pm, Harry7 <cpa...@gmail.com> wrote:
>
> > I want to add 160 meter capability to my HB link coupled antenna
> > tuner.
>
> > Can I simply install an extra inductor to switch into the circuit for
> > 160 & not worry about physical balance relative to the link
>
> > oooo OO oooo   = current arrangement
>
> >                        o
> >                        o
> >                        o = add in inductor for 160
> >                         o
> >                         o
> > oooo OO oooo_]  = switch          = proposed arrangement
>
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> mildly unbalanced to the link placement...
> If it is added turns at 90 degrees to the present tank - like your
> diagram -  it won't work worth a hoot...
>
> Now, having made those prognostications let me suspect that simply
> adding turns to the tank, symmetrically or not, is the least of your
> problems... You need more link inductance (double what you have on 80)
> and you need more capacity in your series cap on the link circuit
> (lots more!)
>
> denny / k8do
```

I am adding more capacitance via a doorknob cap that will be switched into the circuit. My link is plenty big & has multiple taps & it is tuned.

I suspect you are correct re: the balance, at least that's what I have gleaned from an old QST article.

From -5835298126215652118
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 29 Sep 2007 18:06:56 -0500
From: miken <mnewman@clear.net.nz>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: Sun, 30 Sep 2007 11:06:37 +1200
Message-ID: <48mtf3djkr3uhsevmrtqbk1vm97audqks8@4ax.com>
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<13fj9ngdcp3ggcb@corp.supernews.com>
X-Newsreader: Forte Free Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Original-NNTP-Posting-Host: 121-72-74-198.dsl.telstraclear.net
X-Original-Trace: 30 Sep 2007 12:06:53 +1300, 121-72-74-198.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz

Lines: 44
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-Trace: sv3-
EodyWYL0slXNsgunCBOXeHI25bBeFD8RmhyLT5BOQFOnGPClftlWQcznzNiCmcSr6pusNohL7alWeta!
clpjNKt/E+/IEORwjK5+n+WkQj+kXOBQT3rY/hiaPiUugIFI6otm+i7a1OlF/QTCDOkpZv1dOL9M!
5S0pmXk=
X-Complaints-To: Complaints to abuse@clear.net.nz
X-DMCA-Complaints-To: Complaints to abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1166

Hi Colin

Thats the one, you've confirmed the device line-up,a 4016was incorrectly in the place where a 4013 should have been, so it's no surprise the marker wasn't functioning correctly.

There's a separate band-edge marker using a 3.5 MHz xtal.

Many thanks de miken,   zl1bnb

On Tue, 25 Sep 2007 17:25:26 -0700, "COLIN LAMB" <k7fm@teleport.com> wrote:

>Hello Miken:
>
>I found my 1981 ARRL Handbook. They have a "marker" generator, which uses
>an LF-353, a 4001 and a 4013 - all integrated circuits. There is also a
>simple 2 transistor 100 kHz oscillator.
>
>The marker generator puts out 100, 50 and 25 kHz.
>
>When I read the request for a circuit to supplement a glowbug, I thought a
>tube crystal calibrator would be what was wanted, and thought perhaps the
>later 1981 edition might have abandoned a tube version. So, I pulled out a
>1972 ARRL Handbook and even then all they had was solid state.
>
>If you are going to use integrated circuits in a glowbug receiver, you need
>to hide them, since it is unbecoming and might cause others to ridicule the
>otherwise heroic effort to recreate a glorious radio. A simple tube can do
>a wonderful job of putting out 100 kHz signals, and if you want 50 kHz, you
>can use a neon bulb divider.
>
>Many of the simple receivers I built would have been lost with a 100 kHz
>marker. A 1 MHz marker would have been more useful, and even then I was
>guessing at the which MHz it was. The best marker was simply a crystal in
>the ham band and a known point. Something like 3550 kHz, which could also

```
>be used to spot at 7100 kHz.  Even odd marked frequencies are useful - then
>a properly hand calibrated graph laminated on the front panel (ala HRO) will
>give a feeling that none of the wonderful new rigs can touch.
>
>73,  Colin  K7FM
>



From -1150213353958144504
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!
news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 29 Sep 2007 18:13:33 -0500
From: miken <mnewman@clear.net.nz>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: Sun, 30 Sep 2007 11:13:14 +1200
Message-ID: <pmmtf39a0vhetmm1ja779dceu4ermuam8n@4ax.com>
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<fdcn83$f7v@unix1.cc.ksu.edu>
X-Newsreader: Forte Free Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Original-NNTP-Posting-Host: 121-72-74-198.dsl.telstraclear.net
X-Original-Trace: 30 Sep 2007 12:13:30 +1300, 121-72-74-198.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 71
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-Trace: sv3-v8Y2IRi1LQT2GebbNkd+xh4WFBYi3SNSzCEoLYKGnCZ/
OBtCd2XzD6MQDCDTNz2wYdIoKg2iN1soO1h!3tSadoD/
CakQRUO1ByzG9ty42NE4oUCHN1iWp1Bgz3Czxw/OQxIl82TvKTJvIVWA3MQxzGpllKL0!Weg9H1s=
X-Complaints-To: Complaints to abuse@clear.net.nz
X-DMCA-Complaints-To: Complaints to abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1167

On 25 Sep 2007 23:29:55 -0500, mcalhoun@ksu.edu wrote:

>>Is there anyone in the group who has a 1980 ARRL handbook who could
>>scan and email me the circuit of the xtal calibrator/marker generator.
>>I've a friend building replica glowbug regen receivers who needs this
>>info to help get his unit operational.
>
>Maybe the following will be of help:
```

```
>
>QST page:
>* 12, May '37:  "A 100-Kc. E.C. Oscillator for Frequency Checking"
>                uses a 24A tube
>* 53, May '37:  "100-kc. Calibrating Oscillator" uses a 6L6 tube
>* 40, Jan '39:   1000 Kc calibrator uses 6F6 tube
>* 34, Sep '41:   50-, 100-, and 1000-kc oscillator uses three switched
>                LC combinations and one 117L7GT tube
>* 52, May '45:  "Battery-powered one-tube 450- and 1500-kc. signal
>                generator" (1G4, 1H5, or 30 tube)
>* 31, Oct '51:   Uses both halves of a 6SN7 dual triode to produce
>                50-kc signals
>* 68, May '52:  "Simple crystal marker oscillator" uses a 6J5 tube
>                plus two resistors and 'most any crystal.
>>>>>> This is the SIMPLIST calibrator circuit I've seen! <<<<<
>* 41, Jun '52:  "...Frequency Standard...Oscillator" uses a 6F6
>                oscillator, both halves of a 6SN7 as a multivibrator,
>                and a 6K8 buffer/mixer to give 100-kc and 10-kc points
>* 43, Sep '52:  "Fig. 2 - Oscillator circuit for a simple 100-kc crystal
>                standard" uses a 6AU6 tube and NO inductor!
>* 40, Jul '54:   Uses a 6AK5 to produce 100/50-kc harmonics
>* 14, Mar '55:  "Frequency Marker with 50-Kc. Intervals" uses a 6AK5
>                and both "halves" of a 6U8 to provide harmonics up
>                to 30 Mc.
>* 61, Jul '59:  "100-kc calibrator with 1-kc markers" uses a 6AU6
>                oscillator and an NE-2 sub-harmonic generator
>* 30, Mar '62:   Uses a 6AU6 oscillator at 100 kc and a 12AU7
>                multivibrator to also give 50 kc markers
>* 33, Jan '65:   Uses a 6AQ5 oscillator at 100 kc and a 6AS6 10-kc
>                sub-harmonic generator (no diode and NO inductors!)
>* 34, May '65:   Uses a 6AU6 oscillator at 100 kc, a 12AU7 multi-
>                vibrator for 10 kc points, and another 12AU7
>>>>>> ACCURACY:  multivibrator for 1 kc points!
>
>
>CQ page:
>* 35, Jul '47:  "A Simple Frequency Standard" uses both halves of a 6SN7
>        and one semiconductor diode (an easily-hidden 1N34) to
>        produce 1000- and 100-kc signals up to about 60 mc.
>* ??, Apr '55:  "500-kc Marker" uses a 6AU6 tube
>* 29, Dec '55:  "A Heterodyne Crystal Calibrator AND CODE PRACTICE
>                OSCILLATOR" uses both halves of a 7N7, 6SN7, or 12AU7
>                (or pairs of many triodes) and two crystals to give
>                marker signals at the DIFFERENCE of the two crystals
>
>RADIO-ELECTRONICS page:
>* 34, Oct '55:  "Dual-Frequency Crystal Calibrator" uses a dual-
>                frequency crystal and a 6AK5 to produce outputs at
>                1000- and 100-kc.  Adds a 1N34 diode and a 6BE6 tube
>                to make a harmonic generator.  Adds an NE-51 as a
>                relaxation oscillator to make the marker points
>                more-easily recognized!
>* 52, Sep '66:  "Crystal Calibrator" for CB; uses a 6C4 oscillator
```

>
>If those aren't enough, I can also cite several "utility oscillators"
>(which are usually coil-less).

That's a great list of projects.

I've suggested to ZL2CDH who builds the glow-bug rigs, that he makes a marker/generator using some of the hollow-state devices.

Thanks   MikeN,   zl1bnb

From -3610460565939003838
X-Google-Thread: 108122,5d9177f8a9361b2f
X-Google-Thread: fc2a5,5d9177f8a9361b2f
X-Google-Attributes: gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc06.POSTED!ae6a6c4b!not-for-mail
From: Wes Groleau <groleau+news@freeshell.org>
Reply-To: groleau+nntp@freeshell.org
Organization: Ain't No Organization Here!
User-Agent: Thunderbird 2.0.0.6 (Macintosh/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Help with H89/H19
References: <l6xLi.4096$Ww5.1473@trnddc03> <13ft8esi0adnl43@corp.supernews.com>
In-Reply-To: <13ft8esi0adnl43@corp.supernews.com>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 31
Message-ID: <xzELi.223$n92.109@trnddc06>
Date: Sun, 30 Sep 2007 03:17:49 GMT
NNTP-Posting-Host: 72.86.109.157
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc06 1191122269 72.86.109.157 (Sat, 29 Sep 2007 23:17:49 EDT)
NNTP-Posting-Date: Sat, 29 Sep 2007 23:17:49 EDT
Xref: g2news2.google.com rec.radio.amateur.equipment:1025
rec.radio.amateur.homebrew:1168
X-Original-Bytes: 2250

msg wrote:
> Wes Groleau wrote:
>> Can anyone point me to details for disconnecting the
>> H19 board from the CPU board and connecting it instead
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>>
>> (Even better, connecting it directly to a DB-9 which I'd have to buy)
>>
>> I need it to configure a Sun Ultra, since I don't have a Sun monitor.
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> What is preventing you from using a PC (desktop or laptop) or a Mac

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> That would involve somewhat less work than converting the H89 and
> you would have the benefit of emulating a terminal type appropriate
> for the Sun serial console.

None of my Macs have RS-232 (though of course I can get a USB converter)
But I do have a Kubuntu box with RS-232 which I could hook up with a
crossover. However, if it didn't work, I wouldn't know whether to blame
the Sun or my emulator config.

Plus, without a floppy drive, the H89 is useless, so this gets
something out of it.

--
Wes Groleau
"Grant me the serenity to accept those I cannot change;
the courage to change the one I can;
and the wisdom to know it's me."
-- unknown

From 7857490893324741087
X-Google-Thread: 108122,5d9177f8a9361b2f
X-Google-Thread: fc2a5,5d9177f8a9361b2f
X-Google-Attributes: gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Help with H89/H19
Date: Sun, 30 Sep 2007 04:35:38 +0000 (UTC)
Organization: MGT Consulting
Lines: 16
Message-ID: <slrnffu9lc.pao.gsm@cable.mendelson.com>
References: <l6xLi.4096$Ww5.1473@trnddc03> <13ft8esi0adnl43@corp.supernews.com> <xzELi.223$n92.109@trnddc06>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89.138.216.152
X-Trace: marvin.inside.misty.com 1191126938 8716 89.138.216.152 (30 Sep 2007 04:35:38 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Sun, 30 Sep 2007 04:35:38 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news2.google.com rec.radio.amateur.equipment:1026 rec.radio.amateur.homebrew:1169

Wes Groleau wrote:
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> But I do have a Kubuntu box with RS-232 which I could hook up with a
> crossover. However, if it didn't work, I wouldn't know whether to blame

> the Sun or my emulator config.

Ask this on the "Sun Rescue" mailing list.

www.sunhelp.org

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
IL Voice: (07)-7424-1667 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/

From -3917188059302482316
X-Google-Thread: fc2a5,c54b1e4c8e5c43f5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r29g2000hsg.googlegroups.com!not-for-mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Link coupled tuner - physical balance of link?
Date: Sun, 30 Sep 2007 05:59:50 -0700
Organization: http://groups.google.com
Lines: 10
Message-ID: <1191157190.917288.174560@r29g2000hsg.googlegroups.com>
References: <1190936319.808545.94050@19g2000hsx.googlegroups.com>
   <1191092635.552005.226730@k79g2000hse.googlegroups.com>
   <1191100106.870350.42660@22g2000hsm.googlegroups.com>
NNTP-Posting-Host: 97.84.159.244
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1191157191 21959 127.0.0.1 (30 Sep 2007 12:59:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 30 Sep 2007 12:59:51 +0000 (UTC)
In-Reply-To: <1191100106.870350.42660@22g2000hsm.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; IEMB3; IEMB3),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: r29g2000hsg.googlegroups.com; posting-host=97.84.159.244;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1170

Sounds like you are on the right track...
We are currently building balanced link tuner #5 for 160... The
capacitors are 90% finished and Tim is mumbling to me about needing
some coils (my job)... We have 4 of them out in the field at the
moment on 80 and 160... They are motorized, remote control, and
capable of more power than the Henry 3K can generate...

GL - denny / k8do

From -8323477580957372762
X-Google-Thread: 108122,5d9177f8a9361b2f
X-Google-Thread: fc2a5,5d9177f8a9361b2f
X-Google-Attributes: gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 30 Sep 2007 09:04:21 -0500
Date: Sun, 30 Sep 2007 07:04:05 -0700
From: Dana Myers <dana.myers@gmail.com>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Help with H89/H19
References: <l6xLi.4096$Ww5.1473@trnddc03>
In-Reply-To: <l6xLi.4096$Ww5.1473@trnddc03>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <HMWdnZfs6N54MWLbnZ2dnUVZ_rWtnZ2d@comcast.com>
Lines: 34
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 67.180.22.170
X-Trace: sv3-W7akyHDLyv34vQUrPhKEWadE0QZOHxFe/1fO7GxQRxvG+xxm1Z/
O270X+I+BUI1wtgvN8Jh0SBDqll2!
yYuPwDDUYecr74YMgWzed+oI5gvnPKH1GO5Hi4BdPbJJcqGmckNLaM6ANfVcUmmGuKKtJ6u5hEgv!
e3H0Sa3aj5a5eC7tCqZ5RglttMdnMA==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.equipment:1027
rec.radio.amateur.homebrew:1171

Wes Groleau wrote:
> Sorry for being off-topic, but the heath/zenith NG seems to have died.
> Does it help if I have an expired ham license? :-)
>
> I have need of an RS-232 terminal, and I know that
> my H89 (with no floppy--boat anchor!) contains one.
>
> Can anyone point me to details for disconnecting the
> H19 board from the CPU board and connecting it instead
> to the DB-25 on the back?

This is from vague, 27-year-old recollection.
There are two boards in the H89. One of the boards

is the computer, the other is a terminal. The terminal board is the one attached to the actual CRT, the computer is attached to the (100KB, hard-sectored) diskette drive.

The computer and terminal are attached with a single cable with perhaps 5-7 lines using standard RS-232 levels. You just need to pull that cable off, figure out the pinning on it, and make a replacement cable to connect to the DB-25. I can't remember well, and I advise proceeding with caution, but I very vaguely recall that maybe you could move the cable that connects the computer to the DB-25 to the terminal board, after removing the cable that connects the two boards together.

> (Even better, connecting it directly to a DB-9 which I'd have to buy)
>
> I need it to configure a Sun Ultra, since I don't have a Sun monitor.

You've got some vintage hardware there ;-)

Dana K6JQ

From -7690414185428032667
X-Google-Thread: 108122,5d9177f8a9361b2f
X-Google-Thread: fc2a5,5d9177f8a9361b2f
X-Google-Attributes: gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Help with H89/H19
Date: Sun, 30 Sep 2007 09:34:46 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13fvcuna9rccf3e@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <l6xLi.4096$Ww5.1473@trnddc03> <13ft8esi0adnl43@corp.supernews.com> <xzELi.223$n92.109@trnddc06>
In-Reply-To: <xzELi.223$n92.109@trnddc06>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 17
Xref: g2news2.google.com rec.radio.amateur.equipment:1028 rec.radio.amateur.homebrew:1172

Wes Groleau wrote:

<snip>

> Plus, without a floppy drive, the H89 is useless, so this gets
> something out of it.
>

Indeed, using the terminal portion has merit, but why not also
add the missing floppy (I presume it is just the 5 1/4" drive
that you lack)? Look in dumpsters, curbside, surplus and
thrift stores for any old XT-clone to rescue a full-height
floppy ;)

Regards,

Michael

From 3617607291398890449
X-Google-Thread: fc2a5,57d7f24d807aa1fd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
out.newsfeeds.com!local!news.eskimo.com!eskimo.com!mzenier
From: mzenier@eskimo.com (Mark Zenier)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Xtal calibrator, 1980 ARRL Handbook
Date: Sat, 29 Sep 2007 23:45:02 GMT
Organization: Eskimo North www.eskimo.com (800) 246-6874
Lines: 35
Message-ID: <fdomhe$7h2$1@eskinews.eskimo.com>
References: <7h5jf3hnqqekuqdi98hl60vurksab8faro@4ax.com>
<fdch92$714$1@theodyn.ncf.ca> <fdgg7k$t1e$1@eskinews.eskimo.com>
<%QWKi.105110$GO6.20407@newsfe21.lga>
NNTP-Posting-Host: eskimo.com
X-Trace: eskinews.eskimo.com 1191173486 7714 204.122.16.13 (30 Sep 2007 17:31:26
GMT)
X-Complaints-To: abuse@eskimo.com
NNTP-Posting-Date: 30 Sep 2007 17:31:26 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1173

In article <%QWKi.105110$GO6.20407@newsfe21.lga>,
Uncle Peter <radioconnectionREMOVE@cox.net> wrote:
>
>"Mark Zenier" <mzenier@eskimo.com> wrote in message
>news:fdgg7k$t1e$1@eskinews.eskimo.com...
>> In article <fdch92$714$1@theodyn.ncf.ca>,
> > The problem here is that neon bulb relaxation oscillators top out
>> at, according to the charts in the book, at between 10 and 30 kilohertz,
>> depending on bulb type.
>>
>> Mark Zenier mzenier@eskimo.com
>> Googleproofaddress(account:mzenier provider:eskimo domain:com)
>>

>
>I was curious if there was a limit on the upper frequency, and I was
>wondering about the waveform as well; that is if the circuit can produce
>strong harmonics up into the upper HF regions. It would be an interesting
>project to build!

The book is pretty vague on the speed of a discharge. Neon lamps
are sloppy parts. They age, their characteristics vary by how much
illumination they get from other lights (or built in radiation), they
take tens of milliseconds to settle down after they've turned off, etc.
So the discharge speed is a pretty loose spec.

Scanning the scope photo of a 7 kHz oscillation and feeding it into
The Gimp (Linux's equivalent of Photoshop), it looks like the fall time
of the sawtooth is about 30 microseconds, out of a total cycle of 140
microseconds. (A 4.7 meg resistor, a 50 pF cap, and an 5AB (a tight spec
NE-2), at 140 volts). Even using just the steepest part, it doesn't look
like there would be harmonics there much higher than 100-200 kHz. High
impedance makes the waveform pretty squishy.

Mark Zenier mzenier@eskimo.com
Googleproofaddress(account:mzenier provider:eskimo domain:com)

```
From -6141412378085709793
X-Google-Thread: 108122,5d9177f8a9361b2f
X-Google-Thread: fc2a5,5d9177f8a9361b2f
X-Google-Attributes: gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!wns11feed!
worldnet.att.net!199.45.49.37!cyclone1.gnilink.net!spamkiller.gnilink.net!
gnilink.net!trnddc05.POSTED!ae6a6c4b!not-for-mail
From: Wes Groleau <groleau+news@freeshell.org>
Reply-To:  groleau+nntp@freeshell.org
Organization: Ain't No Organization Here!
User-Agent: Thunderbird 2.0.0.6 (Macintosh/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Help with H89/H19
References: <l6xLi.4096$Ww5.1473@trnddc03> <13ft8esi0adnl43@corp.supernews.com>
<xzELi.223$n92.109@trnddc06> <13fvcuna9rccf3e@corp.supernews.com>
In-Reply-To: <13fvcuna9rccf3e@corp.supernews.com>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 32
Message-ID: <gWRLi.736$P06.280@trnddc05>
Date: Sun, 30 Sep 2007 18:29:32 GMT
NNTP-Posting-Host: 72.86.109.157
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc05 1191176972 72.86.109.157 (Sun, 30 Sep 2007 14:29:32 EDT)
NNTP-Posting-Date: Sun, 30 Sep 2007 14:29:32 EDT
Xref: g2news2.google.com rec.radio.amateur.equipment:1030
rec.radio.amateur.homebrew:1174
```

msg wrote:
> Indeed, using the terminal portion has merit, but why not also
> add the missing floppy (I presume it is just the 5 1/4" drive
> that you lack)? Look in dumpsters, curbside, surplus and
> thrift stores for any old XT-clone to rescue a full-height
> floppy ;)

All the software is gone--damaged by two many years of garage and
basement storage, and I finally got up the courage to discard the
remains.

Also, the "hard-sector" disks these things used are not as easy to find.
I actually have some old Wintel boxes with soft-sector drives.

My H89 drive is not actually missing--it is "out-of-alignment"
and I don't have the tools to fix that.

There's anyway no particular value to me any more in running
HDOS or CP/M. It's been too long--I grew accustomed to AmigaDOS,
and then to MacOS 9, and now Mac OS X (with Solaris, Linux, and
FreeBSD for off-loading non-user-interface tasks)

Hey, an alternate idea: Anyone in northeast Indiana want to bring
over a serial terminal long enough to reinstall and configure Solaris
and Kubuntu, and take what's left of the Heathkit as my inadequate
"thank you" ?   :-)

--
Wes Groleau

    "There ain't nothin' in this world that's worth being a snot over."
                                  -- Larry Wall

From 6212409144684984778
X-Google-Thread: 108122,5d9177f8a9361b2f
X-Google-Thread: fc2a5,5d9177f8a9361b2f
X-Google-Attributes: gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc05.POSTED!ae6a6c4b!not-for-mail
From: Wes Groleau <groleau+news@freeshell.org>
Reply-To: groleau+nntp@freeshell.org
Organization: Ain't No Organization Here!
User-Agent: Thunderbird 2.0.0.6 (Macintosh/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Help with H89/H19
References: <l6xLi.4096$Ww5.1473@trnddc03>
<HMWdnZfs6N54MWLbnZ2dnUVZ_rWtnZ2d@comcast.com>
In-Reply-To: <HMWdnZfs6N54MWLbnZ2dnUVZ_rWtnZ2d@comcast.com>

```
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 19
Message-ID: <k_RLi.737$P06.409@trnddc05>
Date: Sun, 30 Sep 2007 18:33:52 GMT
NNTP-Posting-Host: 72.86.109.157
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc05 1191177232 72.86.109.157 (Sun, 30 Sep 2007 14:33:52 EDT)
NNTP-Posting-Date: Sun, 30 Sep 2007 14:33:52 EDT
Xref: g2news2.google.com rec.radio.amateur.equipment:1031
rec.radio.amateur.homebrew:1175
X-Original-Bytes: 1665
```

Dana Myers wrote:
> maybe you could move the cable that connects the computer
> to the DB-25 to the terminal board, after removing the
> cable that connects the two boards together.

Hmmm. That's probably correct! In fact, if I recall correctly,
there are both DCE and DTE connectors on the back.

Thanks, I will definitely look into that!

> You've got some vintage hardware there ;-)

Just call me cheap. The vast majority of the computers
I've had cost less than fifty dollars each.

--
Wes Groleau

    Measure with a micrometer, mark with chalk, and cut with an axe.

```
From 6019482881595366461
X-Google-Thread: fc2a5,85ac841c9bfa7a53
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k79g2000hse.googlegroups.com!not-for-
mail
From:  Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The looming disaster in over-the-air TV
Date: Mon, 01 Oct 2007 05:47:19 -0700
Organization: http://groups.google.com
Lines: 17
Message-ID: <1191242839.238358.321680@k79g2000hse.googlegroups.com>
References: <IYidnTeCmfgO12PbnZ2dnUVZ_vmlnZ2d@comcast.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1191242839 965 127.0.0.1 (1 Oct 2007 12:47:19 GMT)
X-Complaints-To: groups-abuse@google.com
```

```
NNTP-Posting-Date: Mon, 1 Oct 2007 12:47:19 +0000 (UTC)
In-Reply-To: <IYidnTeCmfgO12PbnZ2dnUVZ_vmlnZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k79g2000hse.googlegroups.com; posting-host=170.121.15.35;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1176

On Sep 29, 8:53 am, "jack" <jdwal...@comcast.net> wrote:
> used to be that my biggest problem with TV was the interference I caused to
> an old Philco set my parents had.  actually, I did not cause the
> interference, it was the crummy front end on this particular set, but I
> filtered anyway...
>
> February 2009 -- the current issue of Nuts n Volts has a longish article on
> the scramble for set top boxes/converters for the new digital broadcast
> standards.  Everyone is going to get a $40 voucher to purchase 2
> converters...wait until talk radio gets wind of this.

I don't see the problem. I throw away the TV's at home (all at least
fifteen years old now), my family's collective IQ goes up 50 or 60
points. Sounds like a win-win situation for me!

Tim.




From 398015540495381297
X-Google-Thread: fc2a5,72d630727bce84df,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 02 Oct 2007 01:56:27 -0500
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Galaxy R-1530 / R-530 PLL alignment
Date: Tue, 2 Oct 2007 01:56:43 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <UfqdnQ557f4GdpzanZ2dnUVZ_tyknZ2d@comcast.com>
Lines: 9
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 76.29.104.96
X-Trace: sv3-pAs41PCWKJ8fYYQq64dJnZXKj90ADdqkNdeeuKNlUg/
IKLDiEU4a8UipeZEi3j2Q0pt0Ef2haBGJ8CC!
KwZ3ZUkjEbuPpGv5jsZl+dyfiOWm75wf+78ujqqzixh7bi0iwFpAZ3Rg9aRY8c5WZDc+YT8IYTcz!
```

```
4egRlZI2Rtt7rNAvMdE+0dmnxPIF
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1177
```

A few years back, I ran into a fellow who was familiar (he figured it out)
with this procedure. I think he was from Texas.
Is there anybody who knows how to do this? Unfortunately, the service manual
doesn't explain the adjustment sequence.
Thanks!

Pete

```
From -1430826823255592412
X-Google-Thread: fc2a5,654384f37e30a915,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!g4g2000hsf.googlegroups.com!not-for-
mail
From:  "pbshaji@gmail.com" <pbshaji@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: DDS VFO with AD9850 / AD9851 and PIC16F877A
Date: Tue, 02 Oct 2007 02:33:26 -0700
Organization: http://groups.google.com
Lines: 100
Message-ID: <1191317606.379971.49740@g4g2000hsf.googlegroups.com>
NNTP-Posting-Host: 61.1.252.253
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1191317606 12692 127.0.0.1 (2 Oct 2007 09:33:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 2 Oct 2007 09:33:26 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=61.1.252.253;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1178
```

Hi
I Have successfully completed a DDS with the following facilities. It
uses Mcrocontroller PIC16F877A and AD 9850/9851 DDS chip. The main
facility in this DDS VFO is any settings including chip type and DDS
clock can be changed even after programming the Microcontroller CHIP.
Please click on the link below for more details.

http://hamradioindia.org/forums/viewtopic.php?=&p=2428

Here is some details.

1) DUAL VFO, that is VFO A, VFO B and A=B facilities.

2) UP to 50 RX frequency storage on MEMORY.

3) The Software allows 2 modes of operation,

a) VFO MODE, where the encoder is used to adjust the frequency.

While in this mode, VFO A or B is displayed on the top line of the LCD.

b) MEMORY MODE, where the encoder is used to select a previously saved frequency. While in this mode, MEM is displayed on the top line of the LCD.

4) KEYPAD Frequency entry and additional 7 Press buttons for other functions.

The remaining Functions included in the KEYPAD itself.

5) UP/DOWN fast search in three different steps using KEYPAD which is user selective.

6) SCAN and quick UP/DOWN search in three different steps with auto Repeat on PTT.

7) Frequencies are entered in MHz, the * is used to enter a decimal point,

and the # is used to ENTER the completed frequency.

If the first digit entered is the #, the number entered will be negative.

8) S- Meter reading from S0 to S9+40db in logarithmic db range.

9) Variable rate tuning to use the cheep mechanical encoder.

10) Step size can be changed from 1Hz to MHz range.

11) RIT facility.

12) VFO copy to MEMORY and from MEMORY to any VFO (A/B) facility.

13) AM/LSB/USB/CW modes Operation with PIC pin outputs for switching.

14) Allows -Ve and +Ve IF OFFESTS. Offset frequency = any value from min RX frequency to Max 999MHz

15) 10 RX BANDPASS filter selection for RX coverage from 1.5MHz to 30MHz. Usefull to set up an All band RX.

16) BAND PASS filter switching selectivity 1Hz and 1ms switching speed, which allows cross band Operation.

17) CW OFFSET adds to TX Frequency when transmitting thus avoids modulated CW.

18) Save to MEMORY and Copy from MEMORY functions.

19) Scan VFO frequency and Scan MEMORY facility

20) Time out function for ignoring any wrong entry in system settings.

21) Auto repeat function for respective keys.

22) Display Multiplier Option to use with VHF rigs

23) Menu screen allows user to change any settings in the setup screen.

24) All settings can be changed in the SETUP screen at any time even when the DDS is in working mode including DDS chip type and Reference Clock.

25) LBS/USB/CW Crystal switching (USB is treated as CW).

26) CW OFFSET adds to TX Frequency when transmitting thus avoids modulated CW.

I will be giving the software FREE along with the PCB. Interested homebrewers may Email me for Circuit and other details.

I can send the PCB anywhere in the world using Registered INDIA POST.

SHAJI.P.B VU3WIJ
KOZHIKODE, INDIA.
E mail: vu3wij@hamradio.in and pbshaji@gmail.com (mark copy in both id)

From 2253608225104012458
X-Google-Thread: fc2a5,654384f37e30a915
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc02.POSTED!d89a2db8!not-for-mail
From: "Dale Parfitt" <parinc@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1191317606.379971.49740@g4g2000hsf.googlegroups.com>

```
Subject: Re: DDS VFO with AD9850 / AD9851 and PIC16F877A
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <sQyMi.4869$ht5.2310@trnddc02>
Date: Tue, 02 Oct 2007 21:35:20 GMT
NNTP-Posting-Host: 63.19.180.166
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc02 1191360920 63.19.180.166 (Tue, 02 Oct 2007 17:35:20 EDT)
NNTP-Posting-Date: Tue, 02 Oct 2007 17:35:20 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1179
X-Original-Bytes: 1473


<pbshaji@gmail.com> wrote in message
news:1191317606.379971.49740@g4g2000hsf.googlegroups.com...
> Hi
> I Have successfully completed a DDS with the following facilities. It
> uses Mcrocontroller PIC16F877A and AD 9850/9851 DDS chip. The main
> facility in this DDS VFO is any settings including chip type and DDS
> clock can be changed even after programming the Microcontroller CHIP.
> Please click on the link below for more details.
>
> http://hamradioindia.org/forums/viewtopic.php?=&p=2428
>
Do you have any specs on spectral purity?

Tnx,
Dale W4OP




From -6270635890914155139
X-Google-Thread: fc2a5,654384f37e30a915
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!g4g2000hsf.googlegroups.com!not-for-
mail
From:  "pbshaji@gmail.com" <pbshaji@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS VFO with AD9850 / AD9851 and PIC16F877A
Date: Wed, 03 Oct 2007 08:54:35 -0000
Organization: http://groups.google.com
Lines: 24
Message-ID: <1191401675.510068.266410@g4g2000hsf.googlegroups.com>
References: <1191317606.379971.49740@g4g2000hsf.googlegroups.com>
   <sQyMi.4869$ht5.2310@trnddc02>
NNTP-Posting-Host: 61.2.201.86
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1191401675 24847 127.0.0.1 (3 Oct 2007 08:54:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 3 Oct 2007 08:54:35 +0000 (UTC)
In-Reply-To: <sQyMi.4869$ht5.2310@trnddc02>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=61.2.201.86;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1180

On Oct 2, 2:35 pm, "Dale Parfitt" <par...@verizon.net> wrote:
> <pbsh...@gmail.com> wrote in message
>
> news:1191317606.379971.49740@g4g2000hsf.googlegroups.com...> Hi
> > I Have successfully completed a DDS with the following facilities. It
> > uses Mcrocontroller PIC16F877A and AD 9850/9851 DDS chip. The main
> > facility in this DDS VFO is any settings including chip type and DDS
> > clock can be changed even after programming the Microcontroller CHIP.
> > Please click on the link below for more details.
>
> >http://hamradioindia.org/forums/viewtopic.php?=&p=2428
>
> Do you have any specs on spectral purity?
>
> Tnx,
> Dale W4OP

Hi,

The PCb have option for accomodating Coilcraft 7Pole LPF filter and
Spurious are -60db when measured.

SHAJI VU3WIJ




From 1454558347251611374
X-Google-Thread: fc2a5,35f0d0c8ede58ac1,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r29g2000hsg.googlegroups.com!not-for-
mail
From:  terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: 370 AC capacitors
Date: Wed, 03 Oct 2007 10:00:38 -0700
Organization: http://groups.google.com
Lines: 24
Message-ID: <1191430838.368142.122780@r29g2000hsg.googlegroups.com>
NNTP-Posting-Host: 142.162.129.19
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1191430838 32060 127.0.0.1 (3 Oct 2007 17:00:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 3 Oct 2007 17:00:38 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: r29g2000hsg.googlegroups.com; posting-host=142.162.129.19;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1181
```

Found some 370 volt AC (look like motor starting caps.) in several
sizes at fairly reasonable price, locally.

They would be non-electrolytic and non-polarized. In several values
between 10 and 45 mfd.

May have asked this question before; if so have forgotten the answer!
So forgive me.

But would these caps be OK as filters in the B+ of a conventional DC
power supply. Sixty hertz at 115/230 volt input. (120 hz. ripple).

Ten mfd. sound well within the range for the max. size of a filter on
the cathode output of a typical 5 volt rectifier for example A 45
would be OK after a choke input, in the second or third stage of
filtering.

Am I missing something. These are a physically slightly bigger than
'old' style electrolytics as I remember them. Probably at least two or
three times the volume of modern ones. But cap size especially in home
construction not huge issue?

Comments or contradictions welcomed. TIA Terry

```
From -8272358900965673025
X-Google-Thread: fc2a5,c9c795a1236e70ea
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!57g2000hsv.googlegroups.com!not-for-
mail
From:  terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: i am new
Date: Wed, 03 Oct 2007 10:05:29 -0700
Organization: http://groups.google.com
Lines: 11
Message-ID: <1191431129.083997.31020@57g2000hsv.googlegroups.com>
References: <1190977560.162301.307640@57g2000hsv.googlegroups.com>
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NNTP-Posting-Host: 142.162.129.19
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1191431129 781 127.0.0.1 (3 Oct 2007 17:05:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 3 Oct 2007 17:05:29 +0000 (UTC)
In-Reply-To: <1190977560.162301.307640@57g2000hsv.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 57g2000hsv.googlegroups.com; posting-host=142.162.129.19;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1182

On Sep 28, 9:06 am, "n.dilipkuma...@gmail.com"
<n.dilipkuma...@gmail.com> wrote:
> hey i am dili, new to this field. can any one please guide me to
> install the assembly? well i am passionate about radio electronics
> unfortunately i didn't get a chance to get in there. i recently
> visited this site waitin for ur response ....

Sorry: Insufficient info to respond.
Install 'what' , 'where', 'in what type of gear', 'voltages?', 'for
what purpose', 'country'  etc. ????




From -6965473294068543328
X-Google-Thread: fc2a5,35f0d0c8ede58ac1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feed.cgocable.net!
pd7cy3no!pd7cy4no!shaw.ca!pd7urf1no.POSTED!53ab2750!not-for-mail
X-Trace-PostClient-IP: 70.64.112.90
From: Yukio YANO <yano@shaw.ca>
User-Agent: Thunderbird 1.5.0.13 (Windows/20070809)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 370 AC capacitors
References: <1191430838.368142.122780@r29g2000hsg.googlegroups.com>
In-Reply-To: <1191430838.368142.122780@r29g2000hsg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 16
Message-ID: <06UMi.281925$fJ5.81617@pd7urf1no>
Date: Wed, 03 Oct 2007 21:47:40 GMT
NNTP-Posting-Host: 24.66.94.143
X-Complaints-To: abuse@shaw.ca
X-Trace: pd7urf1no 1191448060 24.66.94.143 (Wed, 03 Oct 2007 15:47:40 MDT)
NNTP-Posting-Date: Wed, 03 Oct 2007 15:47:40 MDT
Organization: Shaw Residential Internet
Xref: g2news2.google.com rec.radio.amateur.homebrew:1183
```

terry wrote:
> Found some 370 volt AC (look like motor starting caps.) in several
> sizes at fairly reasonable price, locally.
>
> They would be non-electrolytic and non-polarized. In several values
> between 10 and 45 mfd.
>

The Dumb Question is What is the PCB (PolyChlorinated Biphenol)
status of these Capacitors ???
Is this why they are being dumped ???

Yukio Yano

>

```
From -8615439374552799759
X-Google-Thread: fc2a5,609a2975dc7a3ac4,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr13.news.prodigy.net.POSTED!c4667c2f!not-for-
mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: VT-4C 211 test ?
Lines: 14
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <ywWMi.30757$eY.5931@newssvr13.news.prodigy.net>
NNTP-Posting-Host: 70.234.41.251
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr13.news.prodigy.net 1191457950 ST000 70.234.41.251 (Wed, 03 Oct
2007 20:32:30 EDT)
NNTP-Posting-Date: Wed, 03 Oct 2007 20:32:30 EDT
Organization: SBC http://yahoo.sbc.com
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SYNWPFWNS[XV\I]PZ@BQ[@CDQDPCL^FKCBIPC@KLGEZEFNMDYMKHRL_YYYGDSSODXYN@[\BK[LVTWI@AXG
QCOA_SAH@TPD^\AL\RLGRFWEARBM
Date: Thu, 04 Oct 2007 00:32:30 GMT
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:1184

I just got a few of these tubes and was toying with the idea of perhaps building a class A audio power amp for grins. I'd like to test them first to see if they're any good before I put forth any effort or spend more dollars. I kind of recall that the GE Notes, Hints & Tips, or whatever they were called had an article for a tester for high power tubes. Anyone recall that article or some other for a circuit to do more than a emission test?
tnx

--

73
Hank WD5JFR

From -8614633919459833079
X-Google-Thread: fc2a5,72d630727bce84df
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr13.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <UfqdnQ557f4GdpzanZ2dnUVZ_tyknZ2d@comcast.com>
Subject: Re: Galaxy R-1530 / R-530 PLL alignment
Lines: 20
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <yxWMi.30758$eY.13709@newssvr13.news.prodigy.net>
NNTP-Posting-Host: 70.234.41.251
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr13.news.prodigy.net 1191458014 ST000 70.234.41.251 (Wed, 03 Oct 2007 20:33:34 EDT)
NNTP-Posting-Date: Wed, 03 Oct 2007 20:33:34 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
Q[R_PJSCOXTMBP\Y]RHV_STDFZ\@@FXLM@TDOCQDJ@_@FNHBK^RAQFW[ML\THRCKV^GGZKJMGV^^_JSCFF
UA_QXFGVSCYRPILH]TRVKC^LSN@DX_HCAFX__@J\DAJBVMY\ZWZCZLPA^MVH_P@\
\EOMW\YSXHG__IJQY_@M[A[[AXQ_XDSTAR]\PG]NVAQUVM
Date: Thu, 04 Oct 2007 00:33:34 GMT

Xref: g2news2.google.com rec.radio.amateur.homebrew:1185

Hey Pete
Let me know if you find it as I need to do the same.
I gave up several years ago and need to get it going..
Good winter project.

--

73
Hank WD5JFR
"Pete KE9OA" <p.gianako@comcast.net> wrote in message
news:UfqdnQ557f4GdpzanZ2dnUVZ_tyknZ2d@comcast.com...
>A few years back, I ran into a fellow who was familiar (he figured it
>out) with this procedure. I think he was from Texas.
> Is there anybody who knows how to do this? Unfortunately, the service
> manual doesn't explain the adjustment sequence.
> Thanks!
>
> Pete
>

From -5165543511204240417
X-Google-Thread: fc2a5,609a2975dc7a3ac4
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VT-4C 211 test ?
Date: Wed, 3 Oct 2007 17:51:14 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13g8e7qm3cinhb0@corp.supernews.com>
References: <ywWMi.30757$eY.5931@newssvr13.news.prodigy.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 32
Xref: g2news2.google.com rec.radio.amateur.homebrew:1186

I had some tubes and built a tester on my workbench, before I sold the tubes. The buyer wanted to know how I tested them, then bought the tubes and asked me to build a tester for him.

If you look at many of the old radio books from the 1930's, it will tell you how to build such a tester. If you have a lot of jumper wires, you can easily build one on your bench.

Simplest to start with a socket for the 211 and filament transformer. Then, you need a plate voltage and a control grid voltage. In my test case, I just grabbed stuff that caught my eye, and used 12 volts on the plate and a variable 12 volts on the control grid. Using a microammeter on the plate, I varied the grid voltage and measured the change in plate current with a change in control grid voltage, and calculated the mu of the tube, using the formula in the book.

That simple test will tell you a lot about the tube. It will not test the tube at higher voltage levels, but you can use a hi-pot tester.

The tester I built for the 211 ended up using 1000 volts for the plate and had a variable grid voltage and protection circuits. I recall I had 3 meters, measuring plate current and voltage (using a variac) and grid voltage. I recall I then made a life tester by reducing the filament voltage.

It was all in an old surplus wooden suitcase box that was polished up. Looked like something important, with laminated charts, neon lights and a leather handle.

73, Colin K7FM

From -2811447729616477773
X-Google-Thread: fc2a5,72d630727bce84df
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 04 Oct 2007 03:14:13 -0500
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <UfqdnQ557f4GdpzanZ2dnUVZ_tyknZ2d@comcast.com>
<yxWMi.30758$eY.13709@newssvr13.news.prodigy.net>
Subject: Re: Galaxy R-1530 / R-530 PLL alignment
Date: Thu, 4 Oct 2007 03:14:32 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <AJ6dndOMcsFIPZnanZ2dnUVZ_g-dnZ2d@comcast.com>
Lines: 58
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 76.29.104.96
X-Trace: sv3-
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M5KvTkWmQlcxwrGqF5uCp4VRJCb4J3aNY15MwPM2pzQX2ggxalr2hczm2/lrcZWfFlWI56GHF4zL!

onKi+A8jiD4nz37tQsgi73Z1AUGm
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1187

Hi Hank,

I just got through repairing the unit. Once I analyzed the schematic, working between it and the block diagram of the PLL, I was able to label all of the stages and their functions.
The problem with my unit was that one of the connections from the bifilar wound output transormer had broken loose from its PC board connection. Once I resoldered the wire, everything started working.
The PLL is actually pretty simple; a 1MHz crystal oscillator is divided down by 2. There is some kind of step recovery circuit that gives this signal very rich harmonics. This is your comb generator.
This signal goes into one port of a mixer. The second port of this mixer has the tunable HF oscillator applied to it. This oscillator operates 4.875MHz below the expected 500kHz harmonic that you will be tuning to, thus giving a 4.875 I.F. signal at the output of this mixer.
After being amplified, the I.F. signal is applied to one input of a phase detector, while the other input receives a signal from a 4.875MHz crystal oscillator. The filtered correction signal (DC) is applied to a Varactor diode in the HF oscillator circuit to warp it on frequency if it drifts.
Now, the final part......... double tuned transformers T702 and T703 on the top board are you 4.875MHz I.F. transformers, while tht pair of T704 and C745 set the low and high frequency endpoints of the HF oscillator. In like manner, the pair of T705 and C750 are adjusted for maximum amplitude for the low and high frequency endpoints of the buffer amplifier.
I haven't figured out how to adjust T701 and C745 yet. This tuned circuit is at the output of the 500kHz comb generator.
I will hook a frequency counter, RF voltmeter, and spectrum analyzer to the LO output of the PLL later today.
The reason that it took me so many years to figure out this circuit is because of the haphazard explanation that was given in the receiver's manual. There was so much microdetail that I was unable to see the forest.

Pete

"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in message news:yxWMi.30758$eY.13709@newssvr13.news.prodigy.net...
> Hey Pete
> Let me know if you find it as I need to do the same.
> I gave up several years ago and need to get it going..
> Good winter project.
>
> --
>
> 73

```
> Hank WD5JFR
> "Pete KE9OA" <p.gianako@comcast.net> wrote in message
> news:UfqdnQ557f4GdpzanZ2dnUVZ_tyknZ2d@comcast.com...
>>A few years back, I ran into a fellow who was familiar (he figured it out)
>>with this procedure. I think he was from Texas.
>> Is there anybody who knows how to do this? Unfortunately, the service
>> manual doesn't explain the adjustment sequence.
>> Thanks!
>>
>> Pete
>>
>
```

```
From 2211167058254758901
X-Google-Thread: fc2a5,35f0d0c8ede58ac1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!19g2000hsx.googlegroups.com!not-for-
mail
From:  Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 370 AC capacitors
Date: Thu, 04 Oct 2007 04:31:21 -0700
Organization: http://groups.google.com
Lines: 12
Message-ID: <1191497481.291211.263400@19g2000hsx.googlegroups.com>
References: <1191430838.368142.122780@r29g2000hsg.googlegroups.com>
   <06UMi.281925$fJ5.81617@pd7urf1no>
NNTP-Posting-Host: 97.84.159.244
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1191497481 13388 127.0.0.1 (4 Oct 2007 11:31:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 4 Oct 2007 11:31:21 +0000 (UTC)
In-Reply-To: <06UMi.281925$fJ5.81617@pd7urf1no>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; IEMB3; IEMB3),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 19g2000hsx.googlegroups.com; posting-host=97.84.159.244;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1188
```

```
>
>   The Dumb Question is What is the  PCB (PolyChlorinated Biphenol)
> status of these Capacitors ???
> Is this why they are being dumped ???
>
> Yukio Yano
```

```
Are you planning on eating them?

denny



From 863768301841345646
X-Google-Thread: fc2a5,35f0d0c8ede58ac1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
out.octanews.net!indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: 370 AC capacitors
Date: Thu, 04 Oct 2007 22:57:07 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.10.05.05.57.07.728802@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <1191430838.368142.122780@r29g2000hsg.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 9
Organization: Octanews
NNTP-Posting-Date: 05 Oct 2007 00:57:08 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:1189

Hi Terry,

These are motor run caps and are prized by the HiFi community as filter
caps. 370VAC would be good for at least a 600V DC supply. I don't think
you'll have a problems.

Cheers,
--
Gregg


From 2412011877458706100
X-Google-Thread: fc2a5,654384f37e30a915
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 05 Oct 2007 02:02:18 -0500
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1191317606.379971.49740@g4g2000hsf.googlegroups.com>
<sQyMi.4869$ht5.2310@trnddc02>
```

<1191401675.510068.266410@g4g2000hsf.googlegroups.com>
Subject: Re: DDS VFO with AD9850 / AD9851 and PIC16F877A
Date: Fri, 5 Oct 2007 02:02:38 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <UdKdnaRtj_7mfJjanZ2dnUVZ_jqdnZ2d@comcast.com>
Lines: 32
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 98.193.11.151
X-Trace: sv3-
p6WMtEEpQoBQm0UxBULvxCdqEquPl6sxcINRkZq4kkHttBwPOCM9Ln18i0JuClV+xf7pyRmew6S5epX!
c+5vuHVqZQ/wYpTsachulV2hNy3kAtJAHB0VuxHSDwLal2lRtZwJhaxvRMQKZ2uLg4vN9/V8E3VQ!
MKfSaa7fqTVYGkNYIAS5YEo/KfroLA==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1190

I've used that 9851 chip in past designs. Nice job on the synthesizer!

Pete

<pbshaji@gmail.com> wrote in message
news:1191401675.510068.266410@g4g2000hsf.googlegroups.com...
> On Oct 2, 2:35 pm, "Dale Parfitt" <par...@verizon.net> wrote:
>> <pbsh...@gmail.com> wrote in message
>>
>> news:1191317606.379971.49740@g4g2000hsf.googlegroups.com...> Hi
>> > I Have successfully completed a DDS with the following facilities. It
>> > uses Mcrocontroller PIC16F877A and AD 9850/9851 DDS chip. The main
>> > facility in this DDS VFO is any settings including chip type and DDS
>> > clock can be changed even after programming the Microcontroller CHIP.
>> > Please click on the link below for more details.
>>
>> >http://hamradioindia.org/forums/viewtopic.php?=&p=2428
>>
>> Do you have any specs on spectral purity?
>>
>> Tnx,
>> Dale W4OP
>
> Hi,
>
> The PCb have option for accomodating Coilcraft 7Pole LPF filter and
> Spurious are -60db when measured.
>
> SHAJI VU3WIJ

>

From 8100544005068477077
X-Google-Thread: fc8b1,52a8b228687e3e79,start
X-Google-Thread: fc2a5,52a8b228687e3e79,start
X-Google-Thread: 1109af,52a8b228687e3e79,start
X-Google-Attributes: gidfc8b1,gidfc2a5,gid1109af,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feed.cgocable.net!
read2.cgocable.net.POSTED!53ab2750!not-for-mail
From: "Norm VE3CZI" <ve3czi@arrl.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.swap
Subject: FS: Servcie Manuals for Amateur & Commercial Equipment
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <NpsNi.2860$xa2.1105@read2.cgocable.net>
Date: Fri, 5 Oct 2007 11:06:14 -0400
NNTP-Posting-Host: 24.141.130.191
X-Complaints-To: news@cogeco.net
X-Trace: read2.cgocable.net 1191596781 24.141.130.191 (Fri, 05 Oct 2007 11:06:21
EDT)
NNTP-Posting-Date: Fri, 05 Oct 2007 11:06:21 EDT
Organization: Cogeco Cable
Xref: g2news2.google.com rec.radio.amateur.boatanchors:1263
rec.radio.amateur.homebrew:1191 rec.radio.swap:1348

Have a quantity of Test Equipment and Radio Communications Service Manuals,
both Commercial & Amateur
Most of them are in Like New Condition.
Prices are reasonable...mailing may more than the manuals..depending where
you live!

Please check my site: www.rodemi.com for what is available.
Click on the MANUALS Heading.
I am updating the site as time allows.
I recently retired from the Commercial 2-way radio business and would like
these useful manuals to find a good home.

Thanks for looking....Norm VE3CZI
Email me Directly: <insert Call Sign> at arrl.net ....<call sign> is
ve3czi

```
From -8350718618282331757
X-Google-Thread: fc2a5,654384f37e30a915
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 06 Oct 2007 12:43:29 -0500
From: "gb" <w9nogbspam@arrlspamno.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1191317606.379971.49740@g4g2000hsf.googlegroups.com>
Subject: Re: DDS VFO with AD9850 / AD9851 and PIC16F877A
Date: Sat, 6 Oct 2007 12:43:11 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3205
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3205
X-RFC2646: Format=Flowed; Original
Message-ID: <kKedncDMJKHcVJranZ2dnUVZ_h2pnZ2d@comcast.com>
Lines: 109
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.14.244.109
X-Trace: sv3-kxX129AvPBHlfOBb0bifJdzj2ojJep/
NJsncxKyGiFjnrr5ZsWztLmiZ1yoDPnGoU3btN8rRVRv/yWG!
RX4mLYLWdrpsR4G8AXpFgsNL9/49zgn5TyBLXv+2cbMeSaJMpQHW1hXHKRJsh+Z/NwZL6DES+Zy+!
fphI2rRN8cox1Wp+S9wOjqEI+0IzBA==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1192

<pbshaji@gmail.com> wrote in message
news:1191317606.379971.49740@g4g2000hsf.googlegroups.com...
> Hi
> I Have successfully completed a DDS with the following facilities. It
> uses Mcrocontroller PIC16F877A and AD 9850/9851 DDS chip. The main
> facility in this DDS VFO is any settings including chip type and DDS
> clock can be changed even after programming the Microcontroller CHIP.
> Please click on the link below for more details.
>
> http://hamradioindia.org/forums/viewtopic.php?=&p=2428
>
> Here is some details.
>
> 1) DUAL VFO, that is VFO A, VFO B and A=B facilities.
>
> 2) UP to 50 RX frequency storage on MEMORY.
>
> 3) The Software allows 2 modes of operation,
>
```

> a) VFO MODE, where the encoder is used to adjust the frequency.
>
> While in this mode, VFO A or B is displayed on the top line of the
> LCD.
>
> b) MEMORY MODE, where the encoder is used to select a previously saved
> frequency. While in this mode, MEM is displayed on the top line of the
> LCD.
>
> 4) KEYPAD Frequency entry and additional 7 Press buttons for other
> functions.
>
> The remaining Functions included in the KEYPAD itself.
>
> 5) UP/DOWN fast search in three different steps using KEYPAD which is
> user selective.
>
> 6) SCAN and quick UP/DOWN search in three different steps with auto
> Repeat on PTT.
>
> 7) Frequencies are entered in MHz, the * is used to enter a decimal
> point,
>
> and the # is used to ENTER the completed frequency.
>
> If the first digit entered is the #, the number entered will be
> negative.
>
> 8) S- Meter reading from S0 to S9+40db in logarithmic db range.
>
> 9) Variable rate tuning to use the cheep mechanical encoder.
>
> 10) Step size can be changed from 1Hz to MHz range.
>
> 11) RIT facility.
>
> 12) VFO copy to MEMORY and from MEMORY to any VFO (A/B) facility.
>
> 13) AM/LSB/USB/CW modes Operation with PIC pin outputs for switching.
>
> 14) Allows -Ve and +Ve IF OFFESTS. Offset frequency = any value from
> min RX frequency to Max 999MHz
>
> 15) 10 RX BANDPASS filter selection for RX coverage from 1.5MHz to
> 30MHz. Usefull to set up an All band RX.
>
> 16) BAND PASS filter switching selectivity 1Hz and 1ms switching
> speed, which allows cross band Operation.
>
> 17) CW OFFSET adds to TX Frequency when transmitting thus avoids
> modulated CW.
>
> 18) Save to MEMORY and Copy from MEMORY functions.

>
> 19) Scan VFO frequency and Scan MEMORY facility
>
> 20) Time out function for ignoring any wrong entry in system settings.
>
> 21) Auto repeat function for respective keys.
>
> 22) Display Multiplier Option to use with VHF rigs
>
> 23) Menu screen allows user to change any settings in the setup
> screen.
>
> 24) All settings can be changed in the SETUP screen at any time even
> when the DDS is in working mode including DDS chip type and Reference
> Clock.
>
> 25) LBS/USB/CW Crystal switching (USB is treated as CW).
>
> 26) CW OFFSET adds to TX Frequency when transmitting thus avoids
> modulated CW.
>
> I will be giving the software FREE along with the PCB. Interested
> homebrewers may Email me for Circuit and other details.
>
> I can send the PCB anywhere in the world using Registered INDIA POST.
>
> SHAJI.P.B VU3WIJ
> KOZHIKODE, INDIA.
> E mail: vu3wij@hamradio.in and pbshaji@gmail.com (mark copy in both id)

Are you still providing the PCB and PIC chip w/source (as mentioned in
April) ??

Greg
w9gb

From 1136264064813414568
X-Google-Thread: fc2a5,35f0d0c8ede58ac1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!22g2000hsm.googlegroups.com!not-for-mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 370 AC capacitors
Date: Sat, 06 Oct 2007 12:33:53 -0700
Organization: http://groups.google.com
Lines: 17
Message-ID: <1191699233.550960.19040@22g2000hsm.googlegroups.com>
References: <1191430838.368142.122780@r29g2000hsg.googlegroups.com>

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   <pan.2007.10.05.05.57.07.728802@localhost.localdomain>
NNTP-Posting-Host: 142.162.129.19
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1191699233 11041 127.0.0.1 (6 Oct 2007 19:33:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 6 Oct 2007 19:33:53 +0000 (UTC)
In-Reply-To: <pan.2007.10.05.05.57.07.728802@localhost.localdomain>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 22g2000hsm.googlegroups.com; posting-host=142.162.129.19;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1193

On Oct 5, 3:57 am, geek <g...@localhost.localdomain> wrote:
> Hi Terry,
>
> These are motor run caps and are prized by the HiFi community as filter
> caps. 370VAC would be good for at least a 600V DC supply. I don't think
> you'll have a problems.
>
> Cheers,
> __
> Gregg

Thanks Gregg: I will check also if/whether they mention PCB as
content. They appear brand new and are in an industrial surplus
section. They don't look that old. So don't expect them to contain
PCBs any more than fluorescent ballasts less than 30 years old.
terry



From 4499825578546287024
X-Google-Thread: fc2a5,654384f37e30a915
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o3g2000hsb.googlegroups.com!not-for-
mail
From:  Tom <holden_family@sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS VFO with AD9850 / AD9851 and PIC16F877A
Date: Sat, 06 Oct 2007 18:47:38 -0700
Organization: http://groups.google.com
Lines: 122
Message-ID: <1191721658.453303.126810@o3g2000hsb.googlegroups.com>
References: <1191317606.379971.49740@g4g2000hsf.googlegroups.com>
   <kKedncDMJKHcVJranZ2dnUVZ_h2pnZ2d@comcast.com>
NNTP-Posting-Host: 64.229.179.110
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
```

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X-Trace: posting.google.com 1191721658 14373 127.0.0.1 (7 Oct 2007 01:47:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 7 Oct 2007 01:47:38 +0000 (UTC)
In-Reply-To: <kKedncDMJKHcVJranZ2dnUVZ_h2pnZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o3g2000hsb.googlegroups.com; posting-host=64.229.179.110;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1194

On Oct 6, 1:43 pm, "gb" <w9nogbs...@arrlspamno.net> wrote:
> <pbsh...@gmail.com> wrote in message
>
> news:1191317606.379971.49740@g4g2000hsf.googlegroups.com...
>
>
>
>
>
> > Hi
> > I Have successfully completed a DDS with the following facilities. It
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> > clock can be changed even after programming the Microcontroller CHIP.
> > Please click on the link below for more details.
>
> >http://hamradioindia.org/forums/viewtopic.php?=&p=2428
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>
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>
> > The remaining Functions included in the KEYPAD itself.
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```

> > user selective.
>
> > 6) SCAN and quick UP/DOWN search in three different steps with auto
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>
> > 7) Frequencies are entered in MHz, the * is used to enter a decimal
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>
> > and the # is used to ENTER the completed frequency.
>
> > If the first digit entered is the #, the number entered will be
> > negative.
>
> > 8) S- Meter reading from S0 to S9+40db in logarithmic db range.
>
> > 9) Variable rate tuning to use the cheep mechanical encoder.
>
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>
> > 11) RIT facility.
>
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> > 13) AM/LSB/USB/CW modes Operation with PIC pin outputs for switching.
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> > 14) Allows -Ve and +Ve IF OFFESTS. Offset frequency = any value from
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>
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>
> > 16) BAND PASS filter switching selectivity 1Hz and 1ms switching
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>
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> > 21) Auto repeat function for respective keys.
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```
>
> > 25) LBS/USB/CW Crystal switching (USB is treated as CW).
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> > I will be giving the software FREE along with the PCB. Interested
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>
> > I can send the PCB anywhere in the world using Registered INDIA POST.
>
> > SHAJI.P.BVU3WIJ
> > KOZHIKODE, INDIA.
> > E mail: vu3...@hamradio.in and pbsh...@gmail.com (mark copy in both id)
>
> Are you still providing the PCB and PIC chip w/source (as mentioned in
> April) ??
>
> Greg
> w9gb- Hide quoted text -
>
> - Show quoted text -

The links seem to be broken. I googled and found him posting recently
at http://www.hamradio.in/forums/search.php?search_author=vu3wij .

Tom VE3MEO



From -5900883958564813490
X-Google-Thread: fcc6e,a8543ded9617f3,start
X-Google-Thread: 11480d,a8543ded9617f3,start
X-Google-Thread: 108122,a8543ded9617f3,start
X-Google-Thread: fc2a5,a8543ded9617f3,start
X-Google-Thread: 10b9c8,a8543ded9617f3,start
X-Google-Attributes: gidfcc6e,gid11480d,gid108122,gidfc2a5,gid10b9c8,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.251.MISMATCH!news-out.readnews.com!transit4.readnews.com!panix!
panix2.panix.com!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Followup-To: poster
Date: 7 Oct 2007 02:05:02 -0400
Organization: rec.radio.info Moderation Team
Lines: 39
Approved: rec-radio-info@panix.com
Distribution: world
```

Expires: 09 Nov 2007 01:05:01 -0000
Message-ID: <radio/ham-radio/recruitment-1-1191737101@panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1191737103 17465 166.84.1.2 (7 Oct 2007 06:05:03 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 7 Oct 2007 06:05:03 +0000 (UTC)
Summary: Recruitment announcement for ham-radio-related FAQ articles
Keywords: FAQ, Intro, amateur, ham, radio, recruit, recruitment
Xref: g2news2.google.com rec.radio.amateur.antenna:6364 rec.radio.amateur.dx:210 rec.radio.amateur.equipment:1075 rec.radio.amateur.homebrew:1195 rec.radio.info:293

Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to rec-radio-info-request@panix.com.

```
From -5036813579885374O9
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.trueband.net!
news.trueband.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 19 Sep 2007 13:28:26 -0500
From: Wes Stewart <n7ws*@*yahoo.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Telstar Electronics VoiceMax
Date: Wed, 19 Sep 2007 11:29:40 -0700
Message-ID: <ijp2f391j6700hm9jpmouprhaui8odifvu@4ax.com>
References: <1189531907.877808.176710@r34g2000hsd.googlegroups.com>
<fc6koh$dv9$1@stable.tornevall.net>
<1189704966.569281.313610@22g2000hsm.googlegroups.com>
<580me3dpt44nah80qk63c45otnlhntick4@4ax.com>
<1190119260.907695.198810@g4g2000hsf.googlegroups.com>
<fcot1n$e72$1@stable.tornevall.net> <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com>
<uja2f31pgreo56o3gtn1gtfrs42t2f3g0q@4ax.com>
<1190215738.351609.256920@r29g2000hsg.googlegroups.com>
X-Newsreader: Forte Free Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 19
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 4.240.186.148
X-Trace: sv3-lGt92mykFcGZzbwPFsZZ/
aEcnFzCtR0bUx006kINuBOhbJslkDPFYdUl1VyJ+RXzwBE5EtPzjQy7oy6!
5eJiLGCyXyCoLZY3MWUqP9GGdywY/eNJkqFrZ1qDcwzbPQ7T8sEWGIYFJQiOtyhQNBXpKr8tknk/!
OmtXQGIPJCJvteMYgEu5TJ5PuEpK4Q==
X-Complaints-To: abuse@trueband.net
X-DMCA-Complaints-To: abuse@trueband.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.cb:3827 rec.radio.amateur.equipment:930
rec.radio.amateur.homebrew:1038
```

On Wed, 19 Sep 2007 08:28:58 -0700, Telstar Electronics
<briangriffey@sbcglobal.net> wrote:

>On Sep 19, 9:05 am, Wes Stewart <n7ws*@*yahoo.com> wrote:
>> I am no fan of Telstar and his spam marketing on these groups and many
>> of his claims are BS.
>> That said, you seem to know little more about the subject than does
>> he.
>> BTW, to see the performance of this thing without the hype:

>
>Wes, I'm curious... what is this "hype" you are talking about? I would
>like to address that directly.

First why don't you address the spam marketing part?

Then you can simply look the word "hype" up in a dictionary. It's a
simple word with a more precise meaning than "fuzzy audio", for
example.

```
From 3623298121123987184
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!g4g2000hsf.googlegroups.com!not-for-
mail
From:  Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Telstar Electronics VoiceMax
Date: Wed, 19 Sep 2007 11:40:43 -0700
Organization: http://groups.google.com
Lines: 10
Message-ID: <1190227243.841922.129620@g4g2000hsf.googlegroups.com>
References: <1189531907.877808.176710@r34g2000hsd.googlegroups.com>
   <fc6koh$dv9$1@stable.tornevall.net>
   <1189704966.569281.313610@22g2000hsm.googlegroups.com>
   <580me3dpt44nah80qk63c45otnlhntick4@4ax.com>
   <1190119260.907695.198810@g4g2000hsf.googlegroups.com>
   <fcot1n$e72$1@stable.tornevall.net>
   <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com>
   <uja2f31pgreo56o3gtn1gtfrs42t2f3g0q@4ax.com>
   <1190215738.351609.256920@r29g2000hsg.googlegroups.com>
   <ijp2f391j6700hm9jpmouprhaui8odifvu@4ax.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1190227244 32703 127.0.0.1 (19 Sep 2007 18:40:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 19 Sep 2007 18:40:44 +0000 (UTC)
In-Reply-To: <ijp2f391j6700hm9jpmouprhaui8odifvu@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=216.203.30.4;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.cb:3828 rec.radio.amateur.equipment:932
rec.radio.amateur.homebrew:1039
```

On Sep 19, 1:29 pm, Wes Stewart <n7ws*@*yahoo.com> wrote:
> First why don't you address the spam marketing part?
> Then you can simply look the word "hype" up in a dictionary. It's a
> simple word with a more precise meaning than "fuzzy audio", for
> example.

OK... just as I suspected... you have no legitimate concern.
www.telstar-electronics.com

From -7917878798667664970
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Wed, 19 Sep 2007 13:01:14 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.09.19.20.01.14.754637@localhost.localdomain>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <1189531907.877808.176710@r34g2000hsd.googlegroups.com>
<fc6koh$dv9$1@stable.tornevall.net>
<1189704966.569281.313610@22g2000hsm.googlegroups.com>
<580me3dpt44nah80qk63c45otnlhntick4@4ax.com>
<1190119260.907695.198810@g4g2000hsf.googlegroups.com>
<fcot1n$e72$1@stable.tornevall.net> <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com>
<46f05178$0$18942$4c368faf@roadrunner.com>
<1190206510.490666.56380@y42g2000hsy.googlegroups.com>
Followup-To: rec.radio.amateur.homebrew
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 11
Organization: Octanews
NNTP-Posting-Date: 19 Sep 2007 15:01:16 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news2.google.com rec.radio.cb:3831 rec.radio.amateur.equipment:933 rec.radio.amateur.homebrew:1040

Hi,

On Wed, 19 Sep 2007 05:55:10 -0700, Telstar Electronics wrote:

> The SkyWave 2879ABTC was discontinued because of a poor profit margin.

Raising the price was not an option?

Cheers,
--
Gregg

```
From -1144027754186639617
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc06.POSTED!d89a2db8!not-for-mail
From: "Dale Parfitt" <parinc@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
<XOiGi.2694$282.2627@trnddc01>
<1189725503.848432.236840@o80g2000hse.googlegroups.com>
<aiije35de82ctpjnpd64f1cicrpleek9k2@4ax.com> <wxkGi.13979$bf1.6741@trnddc04>
<hX9wBcBKbj6GFwmS@clintsmc.demon.co.uk> <HDIGi.1210$ec2.57@trnddc03>
<$uZnPFDYj66GFw36@clintsmc.demon.co.uk> <GrZGi.4808$re2.2372@trnddc02>
<0139047b$0$20284$c3e8da3@news.astraweb.com> <b_yHi.11930$mk2.871@trnddc07>
<46eed9f9$0$8634$c3e8da3@news.astraweb.com>
Subject: Re: HF Amplifier
Lines: 46
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <wWfIi.3929$io2.2107@trnddc06>
Date: Wed, 19 Sep 2007 20:48:28 GMT
NNTP-Posting-Host: 63.19.234.184
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc06 1190234908 63.19.234.184 (Wed, 19 Sep 2007 16:48:28 EDT)
NNTP-Posting-Date: Wed, 19 Sep 2007 16:48:28 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1042
X-Original-Bytes: 3193
```

"Hank Zoeller" <bogusaddress@dontbothernotvalid.com> wrote in message
news:46eed9f9$0$8634$c3e8da3@news.astraweb.com...

> Dale Parfitt wrote:
>> Normally I use water slip decals where the artwork is done in my CAD
>> package and then printed onto the water slip decal paper.
>
> Would you do one decal that fit the entire front panel or individual
> decals for each control? I've been wondering how individual decals would
> look. It would *seem* (no experience here) that individual decals would be
> prominent and therefor less attractive.
>
> Are decals best when placed on a matt finish or a glossy finish? (I
> usually use black or dark gray.) Do you lay on a clear coat after
> applying the decal(s)?

>
> I like the idea of using a CAD package to design decals. Most of my stuff
> is one-off and silk screening seems like an extravagance.
>
> Where do you get your decal paper? Is it compatible with laser or ink
> jet? My laser is color, using a dye sublimation process. Essentially, it
> melts colored bits of wax onto the paper. I'm not sure it will work for
> decals as it uses both heat and pressure to fuse the wax. May have to use
> the XYL's inkjet..
>
> Thanks for the info.
> --
> 73,
> HZ

Hi HZ,

Individual decals as it is quite difficult to get all of the bubbles out of a large sheet. But I should have expanded. After the primer coat, the finish color is sprayed on (I use auto acrylics because they are so hard). When fully dry, this coat is wet sanded to take out any dirt and yield a better surface for the decal to adhere to. When the decals are fully dry, a clear coat is applied. After it dries, I wet sand it and this totally makes the decal edges disappear. This is then followed by a final clear coat.
Here's an example of that process:
http://www.parelectronics.com/pics/w7zoi14.jpg

Dale W4OP

From 2101417044829495552
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2.arglkargh.de!
noris.net!storethat.news.telefonica.de!telefonica.de!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: Mark@TayleorRobesin.org
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Telstar Electronics VoiceMax
Date: Wed, 19 Sep 2007 13:22:21 -0400
Message-ID: <ilm2f3tgl9ovhq5p497777q8lqoe7p14fv@4ax.com>
References: <1189531907.877808.176710@r34g2000hsd.googlegroups.com>
<fc6koh$dv9$1@stable.tornevall.net>
<1189704966.569281.313610@22g2000hsm.googlegroups.com>
<580me3dpt44nah80qk63c45otnlhntick4@4ax.com>
<1190119260.907695.198810@g4g2000hsf.googlegroups.com>
<fcot1n$e72$1@stable.tornevall.net> <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com>

```
<uja2f31pgreo56o3gtn1gtfrs42t2f3g0q@4ax.com>
<1190215738.351609.256920@r29g2000hsg.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 28
NNTP-Posting-Date: 19 Sep 2007 16:31:13 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.cb:3838 rec.radio.amateur.equipment:940
rec.radio.amateur.homebrew:1045

On Wed, 19 Sep 2007 08:28:58 -0700, Telstar Electronics
<briangriffey@sbcglobal.net> wrote:

>On Sep 19, 9:05 am, Wes Stewart <n7ws*@*yahoo.com> wrote:
>> I am no fan of Telstar and his spam marketing on these groups and many
>> of his claims are BS.
>> That said, you seem to know little more about the subject than does
>> he.
>> BTW, to see the performance of this thing without the hype:
>
>Wes, I'm curious... what is this "hype" you are talking about? I would
>like to address that directly.
>www.telstar-electronics.com
i do truly admire the way you have these clowns helpsing advertise
your product

My hat is off to you

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/

and get ou the newly recovered KB9RQZ.blogspot.com as well

G

--
Posted via a free Usenet account from http://www.teranews.com




From 5025710135423092282
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
```

```
nntp.giganews.com!local01.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-
mail
NNTP-Posting-Date: Wed, 19 Sep 2007 20:54:18 -0500
From: tnom@mucks.net
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Wed, 19 Sep 2007 21:53:59 -0400
Organization: Group One News Network
Message-ID: <3fk3f353f85ilbilajm43r5asv4qooj9ta@4ax.com>
References: <1189531907.877808.176710@r34g2000hsd.googlegroups.com>
<fc6koh$dv9$1@stable.tornevall.net>
<1189704966.569281.313610@22g2000hsm.googlegroups.com>
<580me3dpt44nah80qk63c45otnlhntick4@4ax.com>
<1190119260.907695.198810@g4g2000hsf.googlegroups.com>
<fcot1n$e72$1@stable.tornevall.net> <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com>
<46f05178$0$18942$4c368faf@roadrunner.com>
<1190206510.490666.56380@y42g2000hsy.googlegroups.com>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 9
X-Usenet-Provider: http://www.giganews.com
X-Trace: sv3-8D6HNb7WQ4o8oc2bI2ooLfaLFAqENV6bqtWmr5ctTvUtMOhplyc/
Yj+A14n7b3zpTOYi+3f5mZ9j+le!
ECSG90Qw2ZJboY4wqRhQbEcFRd+J226rcQMFJXSUWXtwa+qmVDR2ThgJX0gkry/+he9Rqg==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.cb:3839 rec.radio.amateur.equipment:941
rec.radio.amateur.homebrew:1046


>The SkyWave 2879ABTC was discontinued because of a poor profit margin.
>We hated to do it... but with the temperature compensating biasing...
>and all the premium components and chassis... it was just too costly
>to manufacture.

Why on earth would you put temperature compensating components
into this product. As far as I know no other doorstop on the market
uses them.


From 3951775268607345719
X-Google-Thread: fc2a5,641c0b8a1d161c49,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
213.200.89.82.MISMATCH!tiscali!newsfeed1.ip.tiscali.net!newsfeed00.sul.t-
online.de!t-online.de!newsfeed.t-com.hr!news3.t-com.hr!not-for-mail
```

From: "9A4QV" <adam9a4qv(remove)@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: LT2-S transverter power module problem
Date: Thu, 20 Sep 2007 08:59:21 +0200
Organization: T-Com
Lines: 13
Message-ID: <fct5n7$ra4$1@ss408.t-com.hr>
NNTP-Posting-Host: 78-2-37-114.adsl.net.t-com.hr
X-Trace: ss408.t-com.hr 1190271527 27972 78.2.37.114 (20 Sep 2007 06:58:47 GMT)
X-Complaints-To: abuse@t-com.hr
NNTP-Posting-Date: Thu, 20 Sep 2007 06:58:47 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-Antivirus: avast! (VPS 000775-3, 19.09.2007), Outbound message
X-Antivirus-Status: Clean
Xref: g2news2.google.com rec.radio.amateur.homebrew:1047

Hello,

I have LT-2S (first model) not working properly, somebody "repair" power module and insert some odd power transistors.

There is no information on manual, which original power transistors are used, so anybody knows, please let me know.

What I found inside is: BLY87A and 2N6080???.

Thanks, Adam

From 5819324992643556886
X-Google-Thread: fc2a5,641c0b8a1d161c49
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!out04b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx01.iad01.newshosting.com!newshosting.com!216.196.98.140.MISMATCH!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.trueband.net!news.trueband.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 20 Sep 2007 08:46:46 -0500
From: Wes Stewart <n7ws*@*yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: LT2-S transverter power module problem
Date: Thu, 20 Sep 2007 06:48:00 -0700
Message-ID: <4lt4f3tnoajsjq5roa0la6o2bo3jqbq8ip@4ax.com>
References: <fct5n7$ra4$1@ss408.t-com.hr>
X-Newsreader: Forte Free Agent 1.92/32.572
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 34
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 4.240.242.241
X-Trace: sv3-
bzpE0r662fKRx370WGSURczG4XoVyxOkoCpR3GbzVghOtVsVbvLz9JppZDNegaiKqitRcwEEi3jnm+3!
9TFvhr19FwWIBOiy1OUHpsD5aImM23O96cZ4dIns6bSTGli0VpVx6Z8LXVRrxw815go88c85jlJS!
aUAMu7k42EuiNkj+dkh8gKipCBgq6Q==
X-Complaints-To: abuse@trueband.net
X-DMCA-Complaints-To: abuse@trueband.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1051

On Thu, 20 Sep 2007 08:59:21 +0200, "9A4QV"
<adam9a4qv(remove)@yahoo.com> wrote:

>Hello,
>
>I have LT-2S (first model) not working properly, somebody "repair" power
>module and insert some odd power transistors.
>
>There is no information on manual, which original power transistors are
>used, so anybody knows, please let me know.
>
>What I found inside is: BLY87A and 2N6080???.
>
>Thanks, Adam

Adam,

I don't have the LT-2s but I do have what I believe are the two major units inside, the TV28-144 transverter and the PA-1441 amplifier.

The PA-1441 uses a 2N6080 driver and 2N6081 final.

I've put the schematic here of you need it:

k6mhe.com/n7ws/PA1441.pdf

Hope this helps.

ps. These units are now surplus to me, so I offer them for sale for $225 USD.

Wes N7WS

From -4819501681798248333
X-Google-Thread: fc2a5,806ebaadf53214fa,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!19g2000hsx.googlegroups.com!not-for-mail
From: fl <rxjwg98@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: How to get -89.5 dBM in this IP3 calculation
Date: Thu, 20 Sep 2007 08:18:38 -0700
Organization: http://groups.google.com
Lines: 74
Message-ID: <1190301518.408363.113770@19g2000hsx.googlegroups.com>
NNTP-Posting-Host: 70.52.95.96
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1190301518 9553 127.0.0.1 (20 Sep 2007 15:18:38 GMT)
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NNTP-Posting-Date: Thu, 20 Sep 2007 15:18:38 +0000 (UTC)
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Xref: g2news2.google.com rec.radio.amateur.homebrew:1052

Hi,
I am learning some RF knowledge. The following is a post years ago on this group. I don't understand how the last poster got -89.5 dBM. Could you tell me that? Thanks in advance.

http://groups.google.ca/group/rec.radio.amateur.homebrew/browse_thread/thread/e5d908b1b587e177/c2143f1163952dd9?hl=en&lnk=gst&q=IP3&rnum=1#c2143f1163952dd9
----
 am designing an RF stage that needs to have quite low intermodulation distorsion.

When reading data sheets for various amplifiers they usually give a figure fo IP3.

What I haven't found anywhere is if IP3 is related to the input or the output. Can ayone help me on this point?

I need ntermodulation distorsion to be at least 100 dB down at the output of
the amplifier at a level of 1.5 dBm, and I need a gain of approximately
30-40 dB.

Tomas wrote:
>Is IP3 related to the input of the amplifer.

In general, IP3 is related to the output for amplifiers and to the input for
mixers.

In the example using the Mini-Circuits amplifiers, the output 3rd order
intercept point will remain at essentially +47 dBM. With an output signal at
the +1.5 dBM level, the distortion products will be at a level of -89.5 dBM.
This is only 91 dB down from the output level and not the 100 dB desired.

In order for the distortion products to be at a level of -98.5 dBM, which is
100 dB down, the output intercept point of the last amplifier must be at
least 51.5 dBM.

A Mini-Circuits MAR-8 will make things worse because of the lower OIP.

Gain has nothing to do with these calculations. However, something to keep
in mind is that increasing gain reduces dynamic range at the high signal
level end. While an increase in noise figure reduces dynamic range at the
low signal level end.

73, AL, w6wqc, alf...@megsinet.net

From 2198467456260716753
X-Google-Thread: fc2a5,20d766c55b472ef0

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From:  SpamHog <n1jpr@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: QRP: broadband HF driver & PA - hints?
Date: Thu, 20 Sep 2007 18:01:07 -0000
Organization: http://groups.google.com
Lines: 58
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Xref: g2news2.google.com rec.radio.amateur.homebrew:1053
```

(still me, N1JPR/I2 Filippo, different account...)

Thank you folks, lots of food for thought!

An update:

- I found 3 2SC3502 video finals in the PCB next to the tip of a CRT in a PC VDU: fT 150MHz, but low max Ic 0.1A and about 1 watt dissipation. Might be OK as oscillator or buffer, but I'm not sure it would make a good driver. I'll try it.

- Decided to try a seemingly unsuitable device, a 2SK2545 low-frequency power switching MOSFET from some industrial automation contraption, with a humongous 1300pF input capacitance.

I drove the MOSFET DC coupled (!) at 0V DC with a common-collector BD135 driver in order to swamp the base with current, and I am getting out over 2W at 10MHz at about 12 ohm measured impedance, in class C, with 12V supply.

Sounds cool considering that this MOSFET can switch 600V, handle 6A and dissipate 40W. Actually, the MOSFET indeed STAYS rather cool, while the dummy load of 3x 4 ohm 1 watt resistors get quite hot.

The common-collector driver + common-source final combination is quite promising. My next challenges are

1) Making sure that no AF,LF, VHF spurs ('cept "clean" harmonics) and clicks are generated across a range of voltages and frequencies. Now I do get strange vibes at the lower DC supply voltages, probably via the supply bus. Negative feedback seems to make a difference even in class C.

2) Reduce driver current!   For some strange reason I can't convince drivers to run in class C, neither as common drain nor as common source: even if I raise emitter voltage above base, gain drops (and the MOSFET final goes to sleep), but the driver output still seems undistorted and the driver dissipates like a stove, more so than the final...   more later when I get some proper data.

To those that advise putting tank circuits between stages: go see the many 2- or 3-transistor QRP transmitters you find in magazines, kits, etc.: putting all the filtering after the C-class final is very common. If the VFO or VXO puts out just fundamental + harmonics, then a LPF is all that's needed.

It would be cool to stitch together a 2-transistor thingie that works on 5-15 MHz, gives 2W RF at 12V and ???W when fed say 30Vdc - into a higher impedance, of course.

Stay tuned, & keep reminding me to be sane.   :-)

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mail
NNTP-Posting-Date: Thu, 20 Sep 2007 15:04:06 -0500
From: tnom@mucks.net
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Thu, 20 Sep 2007 16:03:45 -0400
Organization: Group One News Network
Message-ID: <k5k5f31e17jd2blt19ofcp2piuv3vh1o7s@4ax.com>
References: <fc6koh$dv9$1@stable.tornevall.net>
<1189704966.569281.313610@22g2000hsm.googlegroups.com>
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X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.cb:3851 rec.radio.amateur.equipment:954
rec.radio.amateur.homebrew:1054

On Thu, 20 Sep 2007 02:54:33 -0700, Telstar Electronics
<briangriffey@sbcglobal.net> wrote:

>On Sep 19, 8:53 pm, t...@mucks.net wrote:
>> Why on earth would you put temperature compensating components
>> into this product. As far as I know no other doorstop on the market
>> uses them.
>
>Not temp compensating components... temp compensating bias.
>www.telstar-electronics.com
>
Oh...your bias is magical? It uses no components for compensation?

I always suspected your design to be that of an imaginary nature.


From 2442172752426353404
X-Google-Thread: fc2a5,e7dfd2f71c782c00
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Date: Thu, 20 Sep 2007 16:35:29 -0600
From: Hank Zoeller <bogusaddress@dontbothernotvalid.com>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF Amplifier
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
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<XOiGi.2694$282.2627@trnddc01>
<1189725503.848432.236840@o80g2000hse.googlegroups.com>
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Xref: g2news2.google.com rec.radio.amateur.homebrew:1055

Dale Parfitt wrote:
> Here's an example of that process:
> http://www.parelectronics.com/pics/w7zoi14.jpg

That's great info Dale -- thank you very much.

Your superior workmanship inspires me to work harder on my own projects
and this info will help.

Thanks again,
--
HZ

From 3272608538394814207
X-Google-Thread: 106d41,ef16ea9c8c5f2617
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From: Frank Gilliland <w�renut@NOSPAM�cehouse.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Thu, 20 Sep 2007 20:48:33 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <tue6f3pf6m0c8gnl5lmgj1n8gikakceucd@4ax.com>
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Lines: 39
Xref: g2news2.google.com rec.radio.cb:3858 rec.radio.amateur.equipment:958
rec.radio.amateur.homebrew:1057

On Thu, 20 Sep 2007 17:08:23 -0700, Telstar Electronics
<briangriffey@sbcglobal.net> wrote in
<1190333303.832852.219920@50g2000hsm.googlegroups.com>:

>On Sep 20, 3:03 pm, t...@mucks.net wrote:
>> Oh...your bias is magical? It uses no components for compensation?
>> I always suspected your design to be that of an imaginary nature.
>
>Not magical... it used the base-emitter voltage drop of an MJE3055T
>(mounted directly to heat sink) to track with the 2SC2879 power
>transistors. Since it used a transistor with gain... it worked so much
>better than just a plain old diode on the sink for tracking. It worked
>fantastic...

How well it works depends on how well you hacked the design from this
link I posted (while pointing out some of the many problems with your
earlier splatterbox):

http://www.ifwtech.co.uk/g3sek/tr-bias/tr-bias1.htm

> I was able to set set class AB bias (I chose about
>200Ma) on the power transistors... and hold +/-5% collector current
>changes from -40 to +100C heat sink temp during amp operation.

That's interesting. Previously you said your bias scheme can "hold the
500mA bias to 10% from -30 to +85C". It's funny how many times you
have changed the specs. I especially enjoyed the time when you changed
the power output specs three times in one week after you were caught
fabricating them instead of actually measuring them. Oh well, such is
the life of an internet-educated hack.

But alas, there's still one unresolved issue here, Brian.... where's
the schematic?

From 1208367273301654160

X-Google-Thread: fc2a5,806ebaadf53214fa
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From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to get -89.5 dBM in this IP3 calculation
Date: Thu, 20 Sep 2007 23:26:08 -0700
Organization: http://groups.google.com
Lines: 43
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Xref: g2news2.google.com rec.radio.amateur.homebrew:1058

On Sep 20, 8:18 am, fl <rxjw...@gmail.com> wrote:
> Hi,
> I am learning some RF knowledge. The following is a post years ago on
> this group. I don't understand how the last poster got -89.5 dBM.
> Could you tell me that? Thanks in advance.

...

> In the example using the Mini-Circuits amplifiers, the output 3rd
> order
> intercept point will remain at essentially +47 dBM. With an output
> signal at
> the +1.5 dBM level, the distortion products will be at a level of
> -89.5 dBM.
> This is only 91 dB down from the output level and not the 100 dB
> desired.

OK, how far did you get in the calc? If the 3rd order intercept is +47dBm, and the input is +1.5dBm, note that the TOI is 45.5dB higher than the input. For that to be the case, since 3rd order products increase in amplitude at three times the rate (in dB) as the input levels, and the input levels of the two tones used in the third order intermod test are assumed to be the same level, the distortion will be three times as far down as the two tone levels, measured from the intercept point. So for that +1.5dBm input, the third order intermod products are 3*45.5dB below the intercept point, or 2*45.5dB below the two tones.

Note that this is from an ideal model where the output y(t) is related to the input x(t) as y(t) = a*x(t) + b*x(t)^2 + c*x(t)^3. Second order products, like the second harmonic and the sum and differences between frequencies, are caused by the x^2 term, and third order products like the third harmonic and 2*f1-f2 (the usual third order intermod products) are caused by the x^3 term. But in actuality, the relationship also has higher order terms: x^4, x^5, and so forth. The x^5 term will also contribute to third-order intermod, and that causes the simple relationship of "increase the input by 1dB and the third order products go up by 3dB" to not strictly hold true. Amplifiers operated well below saturation generally conform very closely to the 3-to-1 rule, but ADCs and DACs most certainly do not, and neither do amplifiers that are driven into clipping.

Cheers,
Tom

From -4454869685458500237
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From: charlie <wehatespam@wymsey.co.uk>
User-Agent: Thunderbird 1.5.0.12 (X11/20060911)
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Subject: Re: HF Amplifier
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1060

Dale Parfitt wrote:
>
<SNIP>
> As for homebrewing, in the past couple of years I've built 2 water cooled
> 1296 amps and now a 400W solid state 1296 amp. Here's a shot of a recent all
> mode (including sync AM) HF RX with DDS VFO (this is 100% homebrew, not an
> Elecraft):
> http://www.elecraft.com/PictureGallery/NewPics2/w4op_rx_ec2.jpg
> so please don't talk to me about homebrewing. I build what I want and buy
> what I want.
>
> Dale W4OP
>
>
>
Dale,

Does it perform as well as it looks? I am impressed and also
interested in the the case as I'm about to embark on building a
BITX20a 20m transceiver . Is it a commercial case?


Charlie.

--
M0WYM
www.radiowymsey.org


From 8142033676112601990
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
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Subject: Re: Telstar Electronics VoiceMax IS GARBAGE!
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Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1190431706 24957 127.0.0.1 (22 Sep 2007 03:28:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 22 Sep 2007 03:28:26 +0000 (UTC)
In-Reply-To: <1P6dncbkOq8HwmzbnZ2dnUVZ_ualnZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.6) Gecko/
20061201 Firefox/2.0.0.6 (Ubuntu-feisty),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 57g2000hsv.googlegroups.com; posting-host=71.221.102.162;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.cb:3873 rec.radio.amateur.equipment:967
rec.radio.amateur.homebrew:1061

On Sep 19, 11:42 am, Deek <D...@comcast.net> wrote:
> I conclude that the VOICEMAX issue has died, has had the funeral and now should
> be buried.
>
> Those who advocate high distortion levels and poor quality signals can spend
> their $$$ and buy it.

That's just what the average cber wants. Makes em think they got a
"BIG RADIO".




From -8178415890666703705
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!sn-xt-sjc-03!sn-
xt-sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Frank Gilliland <w�renut@NOSPAM�cehouse.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Fri, 21 Sep 2007 21:45:48 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <h369f3h51mdgp1k048bv82qt38bi0r4s23@4ax.com>
References: <fcot1n$e72$1@stable.tornevall.net> <46f045dc$1_3@mk-
nntp-2.news.uk.tiscali.com> <46f05178$0$18942$4c368faf@roadrunner.com>
<1190206510.490666.56380@y42g2000hsy.googlegroups.com>
<3fk3f353f85ilbilajm43r5asv4qooj9ta@4ax.com>
```

```
<1190282073.743844.219280@22g2000hsm.googlegroups.com>
<k5k5f31e17jd2blt19ofcp2piuv3vh1o7s@4ax.com>
<1190333303.832852.219920@50g2000hsm.googlegroups.com>
<tue6f3pf6m0c8gnl5lmgj1n8gikakceucd@4ax.com>
<1190385474.321161.279250@n39g2000hsh.googlegroups.com>
X-Newsreader: Forte Free Agent 1.93/16.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@supernews.com
Lines: 63
Xref: g2news2.google.com rec.radio.cb:3875 rec.radio.amateur.equipment:968
rec.radio.amateur.homebrew:1062

On Fri, 21 Sep 2007 07:37:54 -0700, Telspam Electronics
<briangriffey@sbcglobal.net> wrote in
<1190385474.321161.279250@n39g2000hsh.googlegroups.com>:

>On Sep 20, 10:48 pm, Frank Gilliland <w�renut@NOSPAM�cehouse.net>
>wrote:
>> On Thu, 20 Sep 2007 17:08:23 -0700, Telstar Electronics
>> <briangrif...@sbcglobal.net> wrote in
>> <1190333303.832852.219...@50g2000hsm.googlegroups.com>:
>>
>> >On Sep 20, 3:03 pm, t...@mucks.net wrote:
>> >> Oh...your bias is magical? It uses no components for compensation?
>> >> I always suspected your design to be that of an imaginary nature.
>>
>> >Not magical... it used the base-emitter voltage drop of an MJE3055T
>> >(mounted directly to heat sink) to track with the 2SC2879 power
>> >transistors. Since it used a transistor with gain... it worked so much
>> >better than just a plain old diode on the sink for tracking. It worked
>> >fantastic...
>>
>> How well it works depends on how well you hacked the design from this
>> link I posted (while pointing out some of the many problems with your
>> earlier splatterbox):
>>
>> http://www.ifwtech.co.uk/g3sek/tr-bias/tr-bias1.htm
>>
>> > I was able to set set class AB bias ( I chose about
>> >200Ma) on the power transistors... and hold +/-5% collector current
>> >changes from -40 to +100C heat sink temp during amp operation.
>>
>> That's interesting. Previously you said your bias scheme can "hold the
>> 500mA bias to 10% from -30 to +85C". It's funny how many times you
>> have changed the specs. I especially enjoyed the time when you changed
>> the power output specs three times in one week after you were caught
>> fabricating them instead of actually measuring them. Oh well, such is
>> the life of an internet-educated hack.
>>
>> But alas, there's still one unresolved issue here, Brian.... where's
>> the schematic?
```

>
>Glad you're back Frank...

I never left, Brian.

> your always good for a laugh.

I'm glad you're amused. But don't you think it's time for you to get a job and relieve the financial burden on your parents and the Illinois welfare system? If I lived in that state I would be outraged that you are leeching my hard-earned tax dollars, but I don't. I guess people over there prefer to coddle malingering basement-dwellers. You are certainly lucky to live in a place with such generous folks, Brian. Over here on the left coast you would have to support yourself with gainful employment. And I hope that gives you something else to laugh about, cause the thought of you actually working for your keep sure leaves -me- ROTFLMMFAO!!!

BTW, where's that schematic?

```
From 900944566324976091
X-Google-Thread: fc2a5,72e3e2acf3272749,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!57g2000hsv.googlegroups.com!not-for-
mail
From:  Clayton <Evans8119@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Coil Calculations?
Date: Fri, 21 Sep 2007 22:25:14 -0700
Organization: http://groups.google.com
Lines: 15
Message-ID: <1190438714.690477.28150@57g2000hsv.googlegroups.com>
NNTP-Posting-Host: 207.200.116.71
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1190438714 16916 127.0.0.1 (22 Sep 2007 05:25:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 22 Sep 2007 05:25:14 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 5.1;
FDM),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-tb08.proxy.aol.com[CFC870A5] (Prism/1.2.1), HTTP/1.1 cache-ntc-
ab07.proxy.aol.com[CFC87447] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: 57g2000hsv.googlegroups.com; posting-host=207.200.116.71;
```

   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1063

Hi,
I have a coil that is wound on a 1.125 inch diameter form and 3 inches
long space wound with 25 turns of 11 gauge aluminum wire...
I am trying to duplicate this coil only instead of using 11 gauge wire
I am using 12 gauge aluminum wire.
I was wondering if somebody could help me out and make sure my math is
right since I am unsure of how to go about making sure I match the
inductance.

I had this figured out once but mistakenly had the wrong wire
gauges...

Any help is greatly appreciated
Thank You

From -904855999469533051
X-Google-Thread: fc2a5,72e3e2acf3272749
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!22g2000hsm.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Coil Calculations?
Date: Fri, 21 Sep 2007 23:30:42 -0700
Organization: http://groups.google.com
Lines: 28
Message-ID: <1190442642.020203.94600@22g2000hsm.googlegroups.com>
References: <1190438714.690477.28150@57g2000hsv.googlegroups.com>
NNTP-Posting-Host: 71.113.61.183
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1190442642 30588 127.0.0.1 (22 Sep 2007 06:30:42 GMT)
X-Complaints-To: groups-abuse@google.com
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In-Reply-To: <1190438714.690477.28150@57g2000hsv.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.6) Gecko/20070725 Firefox/2.0.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 22g2000hsm.googlegroups.com; posting-host=71.113.61.183;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1064

On Sep 21, 10:25 pm, Clayton <Evans8...@aol.com> wrote:
> Hi,
> I have a coil that is wound on a 1.125 inch diameter form and 3 inches
> long space wound with 25 turns of 11 gauge aluminum wire...

> I am trying to duplicate this coil only instead of using 11 gauge wire
> I am using 12 gauge aluminum wire.
> I was wondering if somebody could help me out and make sure my math is
> right since I am unsure of how to go about making sure I match the
> inductance.
>
> I had this figured out once but mistakenly had the wrong wire
> gauges...
>
> Any help is greatly appreciated
> Thank You

Back not so long ago when you posted a similar question on the antenna
newsgroup, Owen Duffy so kindly posted a url for an inductance
calculator, which I repeat here for your benefit:
http://hamwaves.com/antennas/inductance.html. It will do all the math
for you. Well, almost all. You still need to put your dimensions in
terms of millimeters, and make sure you enter the diameter of the coil
as the form diameter plus the wire diameter, so that it's the mean
coil diameter you enter.

Cheers,
Tom

From 5892159362322120327
X-Google-Thread: fc2a5,72e3e2acf3272749
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 22 Sep 2007 06:54:43 -0500
Date: Sat, 22 Sep 2007 11:54:43 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Coil Calculations?
References: <1190438714.690477.28150@57g2000hsv.googlegroups.com>
<1190442642.020203.94600@22g2000hsm.googlegroups.com>
In-Reply-To: <1190442642.020203.94600@22g2000hsm.googlegroups.com>
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Message-ID: <QsmdnaLGTsEen2jbnZ2dnUVZ_rHinZ2d@bright.net>
Lines: 45
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NNTP-Posting-Host: 64.33.199.218
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qNJSk8rEVWcqubrcla!
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T+VRtkbIlg==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1065

I would just visually duplicate what the original looks like. It should be fairly close and you can spread or squeeze the turns to "tune" it to the inductance required.

Scott
N0EDV

K7ITM wrote:

> On Sep 21, 10:25 pm, Clayton <Evans8...@aol.com> wrote:
>
>>Hi,
>>I have a coil that is wound on a 1.125 inch diameter form and 3 inches
>>long space wound with 25 turns of 11 gauge aluminum wire...
>>I am trying to duplicate this coil only instead of using 11 gauge wire
>>I am using 12 gauge aluminum wire.
>>I was wondering if somebody could help me out and make sure my math is
>>right since I am unsure of how to go about making sure I match the
>>inductance.
>>
>>I had this figured out once but mistakenly had the wrong wire
>>gauges...
>>
>>Any help is greatly appreciated
>>Thank You
>
>
> Back not so long ago when you posted a similar question on the antenna
> newsgroup, Owen Duffy so kindly posted a url for an inductance
> calculator, which I repeat here for your benefit:
> http://hamwaves.com/antennas/inductance.html. It will do all the math
> for you. Well, almost all. You still need to put your dimensions in
> terms of millimeters, and make sure you enter the diameter of the coil
> as the form diameter plus the wire diameter, so that it's the mean
> coil diameter you enter.
>
> Cheers,
> Tom
>

--
Scott

http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

```
From 972571233619875939
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!57g2000hsv.googlegroups.com!not-for-
mail
From:  Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Sat, 22 Sep 2007 08:26:46 -0700
Organization: http://groups.google.com
Lines: 16
Message-ID: <1190474806.897421.57770@57g2000hsv.googlegroups.com>
References: <580me3dpt44nah80qk63c45otnlhntick4@4ax.com>
   <1190119260.907695.198810@g4g2000hsf.googlegroups.com>
   <fcot1n$e72$1@stable.tornevall.net>
   <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com>
   <46f05178$0$18942$4c368faf@roadrunner.com>
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   <3fk3f353f85ilbilajm43r5asv4qooj9ta@4ax.com>
   <1190282073.743844.219280@22g2000hsm.googlegroups.com>
   <k5k5f31e17jd2blt19ofcp2piuv3vh1o7s@4ax.com>
   <1190333303.832852.219920@50g2000hsm.googlegroups.com>
   <tue6f3pf6m0c8gnl5lmgj1n8gikakceucd@4ax.com>
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Mime-Version: 1.0
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X-Trace: posting.google.com 1190474807 13070 127.0.0.1 (22 Sep 2007 15:26:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 22 Sep 2007 15:26:47 +0000 (UTC)
In-Reply-To: <tue6f3pf6m0c8gnl5lmgj1n8gikakceucd@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1; .NET
CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506;
InfoPath.2),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 57g2000hsv.googlegroups.com; posting-host=76.197.194.70;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.cb:3881 rec.radio.amateur.equipment:970
rec.radio.amateur.homebrew:1067
```

On Sep 20, 10:48 pm, Frank Gilliland <w=EFrenut@NOSPAM=EFcehouse.net>
wrote:
>> How well it works depends on how well you hacked the design from this
> link I posted (while pointing out some of the many problems with your

> earlier splatterbox):
> http://www.ifwtech.co.uk/g3sek/tr-bias/tr-bias1.htm

This is the first time I've been to that link. The circuit he shows with the two transistors is similar to mine. My feeling is that his is needlessly more complex, but I'm sure it works. I also agree with his statements about the diode method used for tracking. That method works a little better than no tracking and is not worth the effort. This is because putting two diodes in parallel never works right. One always has a lower drop... and hogs.
www.telstar-electronics.com

From -3920312743330950166
X-Google-Thread: fc2a5,72e3e2acf3272749
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o80g2000hse.googlegroups.com!not-for-mail
From: Clayton <Evans8119@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Coil Calculations?
Date: Sat, 22 Sep 2007 09:47:52 -0700
Organization: http://groups.google.com
Lines: 14
Message-ID: <1190479672.020111.291710@o80g2000hse.googlegroups.com>
References: <1190438714.690477.28150@57g2000hsv.googlegroups.com>
   <1190442642.020203.94600@22g2000hsm.googlegroups.com>
   <QsmdnaLGTsEen2jbnZ2dnUVZ_rHinZ2d@bright.net>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1190479672 30465 127.0.0.1 (22 Sep 2007 16:47:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 22 Sep 2007 16:47:52 +0000 (UTC)
In-Reply-To: <QsmdnaLGTsEen2jbnZ2dnUVZ_rHinZ2d@bright.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 5.1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-ntc-td05.proxy.aol.com[CFC87065] (Prism/1.2.1), HTTP/1.1 cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: o80g2000hse.googlegroups.com; posting-host=207.200.116.11;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1068

Thanks Tom,
That calculator doesn't work for me for some reason. Every time I tried to use it,it comes up with an error.
I have tried several different calculators but get varying answerers.

Hi Scott,
If My math is right I would need 23.5 turns of 12 gauge wire to reach the same inductance as the original coil.

Sorry for what may seem like a repeat post,but for some reason I can not seem to get comfortable with coils and inductance.

Thank You

```
From -1926634882800567393
X-Google-Thread: fc2a5,90af4c134c0a64d4,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 22 Sep 2007 14:50:48 -0500
Date: Sat, 22 Sep 2007 20:51:01 +0100
From: charlie <wehatespam@wymsey.co.uk>
User-Agent: Thunderbird 1.5.0.12 (X11/20060911)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Instrument Case For Transceiver
X-Enigmail-Version: 0.95.2
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-ID: <auqdnb24quGF72jbRVnygQA@pipex.net>
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X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1069
```

I'm looking for an instrument case for the BITX20A 20m transceiver, the choices in the regular UK outlets don't look too special. What I'm looking for is something around 6 inches wide, 8 deep and around 3 inches high (150 x 200 x 70 approx). Something with extruded sides would fit the bill but it has to be all metal.

I'd appreciate any URLs of suppliers in the UK or US, meanwhile back to googling :)

Thanks,

Charlie.

--
M0WYM
www.radiowymsey.org

```
From 9127946584723396544
X-Google-Thread: fc2a5,90af4c134c0a64d4
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 22 Sep 2007 15:12:09 -0500
From: "gb" <w9nogbspam@arrlspamno.net>
Newsgroups: rec.radio.amateur.homebrew
References: <auqdnb24quGF72jbRVnygQA@pipex.net>
Subject: Re: Instrument Case For Transceiver
Date: Sat, 22 Sep 2007 15:12:05 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <YrCdnfZ9-aGE6mjbnZ2dnUVZ_g2dnZ2d@comcast.com>
Lines: 27
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.14.244.109
X-Trace: sv3-txzE/FEqI0jn1h2lTsFLvN+SfY5jsMefe722lk39q/jtf4UeTu5TnJHk+/
C6dv1zePhywXrvAl5DfG0!vmd/FVMHWX/9GYS/
uDen399E3mPWyfhXHfD8HZ3o5zyRkKqiPqXKBZvGaBfQ0PFpnuBXCrzEGqOh!
8ostXYBEFCAo8+CxLPbUA6l0WZIIJg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1070
```

"charlie" <wehatespam@wymsey.co.uk> wrote in message
news:auqdnb24quGF72jbRVnygQA@pipex.net...

> I'm looking for an instrument case for the BITX20A 20m transceiver,
> the choices in the regular UK outlets don't look too special. What
> I'm looking for is something around 6 inches wide, 8 deep and around
> 3 inches high (150 x 200 x 70 approx). Something with extruded sides
> would fit the bill but it has to be all metal.
>
> I'd appreciate any URLs of suppliers in the UK or US, meanwhile back

> to googling :)
>
> Thanks,
> Charlie.
> --
> M0WYM
> www.radiowymsey.org

C -

I am going to use an old modem case (hopefully).
Hundreds of thousands of analog modems at retail office / stores across
world have hit the trash heap in past 20 years. Some are all plastic, but I
have retrieved one that may work for my future BIT20A kit.

w9gb

From 3737355993024242599
X-Google-Thread: fc2a5,90af4c134c0a64d4
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-
mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <auqdnb24quGF72jbRVnygQA@pipex.net>
Subject: Re: Instrument Case For Transceiver
Lines: 33
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <MGeJi.98494$Xa3.4844@attbi_s22>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1190491948 12.219.135.201 (Sat, 22 Sep 2007 20:12:28 GMT)
NNTP-Posting-Date: Sat, 22 Sep 2007 20:12:28 GMT
Organization: AT&T ASP.att.net
Date: Sat, 22 Sep 2007 20:12:28 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1071

"charlie" <wehatespam@wymsey.co.uk> wrote in message
news:auqdnb24quGF72jbRVnygQA@pipex.net...
> I'm looking for an instrument case for the BITX20A 20m transceiver,
> the choices in the regular UK outlets don't look too special. What
> I'm looking for is something around 6 inches wide, 8 deep and around
> 3 inches high (150 x 200 x 70 approx). Something with extruded sides

> would fit the bill but it has to be all metal.
>
> I'd appreciate any URLs of suppliers in the UK or US, meanwhile back
> to googling :)
>
> Thanks,
>
>
> Charlie.
>
> --
> M0WYM

Charlie, at the next boot sale coming near you, look for the A/B switch boxes for switching between printers and serial ports and the like. Some are roughly the size you're asking about and you just have to make a new front and rear panel for them. (They ARE steel, and a bear to work with) As an alternative, I have some extruded Aluminum boxes 1/8 th inch wall that are 6 wide by 8 deep by 1-3/4 high. Open front and back but internal ribs for sliding in a couple PC boards and tapped on the ends for 4-40 bolts for holding on front and rear panels. If you can live with the reduced height, one is yours for the postage.

W4ZCB

From -2800593406713996662
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!feeder.news-service.com!hwmnpeer03.ams!news.highwinds-media.com!transit5.hitnews.eu!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Sat, 22 Sep 2007 13:16:56 -0700
Organization: albasani.net
Lines: 19
Message-ID: <fd3t7n$skc$2@news.albasani.net>
References: <fcot1n$e72$1@stable.tornevall.net>   <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com>   <46f05178$0$18942$4c368faf@roadrunner.com>
<1190206510.490666.56380@y42g2000hsy.googlegroups.com>
<3fk3f353f85ilbilajm43r5asv4qooj9ta@4ax.com>
<1190282073.743844.219280@22g2000hsm.googlegroups.com>
<k5k5f31e17jd2blt19ofcp2piuv3vh1o7s@4ax.com>
<1190333303.832852.219920@50g2000hsm.googlegroups.com>
<tue6f3pf6m0c8gnl5lmgj1n8gikakceucd@4ax.com>
<1190385474.321161.279250@n39g2000hsh.googlegroups.com>

<h369f3h51mdgp1k048bv82qt38bi0r4s23@4ax.com>
<1190467989.410056.192450@19g2000hsx.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net pRZ14ZJ9eRWjd7NN1em/
hB+ZQ6Sf3ZUnOgYj9SyxHLw6+il4S2ettqqX+TMIGzpI0jDC3g1H7ps/
O1sPEHaSG5fSwewiLV+dBfW31EXPFa7ZMPV9UOwodNfb4Wuz4o6X
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Sat, 22 Sep 2007 20:16:56 +0000 (UTC)
X-User-ID: j0MGn54b14tfutEnSsUzf08pcG0X2zgZPHoukGz+SFo=
In-Reply-To: <1190467989.410056.192450@19g2000hsx.googlegroups.com>
Cancel-Lock: sha1:2MKb4nHY9ZeTonkoo5ityFhSLy0=
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
X-NNTP-Posting-Host: E/
t8PDpzzkAtHdK45wVHoSCcdqrhHTQzkZiW7DOjxWQzpZzxR7NJ1gfSrf2BboPIa2pZocxBvvggkWOSqQCU
Wg==
Xref: g2news2.google.com rec.radio.cb:3883 rec.radio.amateur.equipment:971
rec.radio.amateur.homebrew:1072

Telstar Electronics wrote:

> ...
> Keep up the amusing posts Frank...
> www.telstar-electronics.com
>
>

Personally, I run a speech compressor. I doubt many of these idiots
could install one; apparently, they can't afford to have the local "cb
tweak" install if for them either.

Local, I kill the speech compressor, it is only for DX. Frankly, it
doesn't hurt my feelings they don't have one! <evil grin>

Keep up the sales pitch--few will be disappointed if they purchase one ...

Regards,
JS

From -9194529629782066568
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
213.200.89.82.MISMATCH!tiscali!newsfeed1.ip.tiscali.net!newsfeed00.sul.t-
online.de!newsfeed01.sul.t-online.de!t-online.de!newsfeed.velia.net!
newsfeeder.dynfx.net!news.albasani.net!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew

Subject: Re: Telstar Electronics VoiceMax IS GARBAGE!
Date: Sat, 22 Sep 2007 13:19:16 -0700
Organization: albasani.net
Lines: 12
Message-ID: <fd3tc4$skc$3@news.albasani.net>
References: <1189531907.877808.176710@r34g2000hsd.googlegroups.com>
<fc6koh$dv9$1@stable.tornevall.net>
<1189704966.569281.313610@22g2000hsm.googlegroups.com>
<580me3dpt44nah80qk63c45otnlhntick4@4ax.com>
<1190119260.907695.198810@g4g2000hsf.googlegroups.com>
<fcot1n$e72$1@stable.tornevall.net>   <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com>
<46f05178$0$18942$4c368faf@roadrunner.com>
<1P6dncbkOq8HwmzbnZ2dnUVZ_ualnZ2d@comcast.com>
<1190431706.725205.256030@57g2000hsv.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net caG1NFXqHTnfqlvBLnpzIm+/
HEnhAvyghexFJqHaTQm4Us+avSCej7XNBA2Xi+PjxtaItl02x4osb9fYaiFy7LyPHWp4sUFspWihVUUvzz
9aUZbcSwbekxHPmaOck5ar
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Sat, 22 Sep 2007 20:19:16 +0000 (UTC)
X-User-ID: cuKv+XShs9OJBUhykG5tsRy6JhNqEwKAdVsUd6ltROg=
In-Reply-To: <1190431706.725205.256030@57g2000hsv.googlegroups.com>
Cancel-Lock: sha1:1Dpk029eAwaAkK/HIx00nmyvpgw=
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
X-NNTP-Posting-Host: 0i7boQR1ParLAA6wszU9HXcik/
RpeEPr+mUFnIqOb3i3fXOMMQrQ4za2hkc7ObBEral1pRXU98nS9G51ik9HgQ==
Xref: g2news2.google.com rec.radio.cb:3884 rec.radio.amateur.equipment:972
rec.radio.amateur.homebrew:1073

cmdr buzz corey wrote:

> ...
> That's just what the average cber wants. Makes em think they got a
> "BIG RADIO".
>

Well, that is certainly better than a "Big-Headed-Amateur-Wannabe!"

Get mental help, the opportunity is still open to 'ya!

JS

From -4984147320099820352
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!22g2000hsm.googlegroups.com!not-for-mail

From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Sat, 22 Sep 2007 13:22:39 -0700
Organization: http://groups.google.com
Lines: 13
Message-ID: <1190492559.044083.248450@22g2000hsm.googlegroups.com>
References: <fcot1n$e72$1@stable.tornevall.net>
   <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com>
   <46f05178$0$18942$4c368faf@roadrunner.com>
   <1190206510.490666.56380@y42g2000hsy.googlegroups.com>
   <3fk3f353f85ilbilajm43r5asv4qooj9ta@4ax.com>
   <1190282073.743844.219280@22g2000hsm.googlegroups.com>
   <k5k5f31e17jd2blt19ofcp2piuv3vh1o7s@4ax.com>
   <1190333303.832852.219920@50g2000hsm.googlegroups.com>
   <tue6f3pf6m0c8gnl5lmgj1n8gikakceucd@4ax.com>
   <1190385474.321161.279250@n39g2000hsh.googlegroups.com>
   <h369f3h51mdgp1k048bv82qt38bi0r4s23@4ax.com>
   <1190467989.410056.192450@19g2000hsx.googlegroups.com>
   <fd3t7n$skc$2@news.albasani.net>
NNTP-Posting-Host: 76.197.194.70
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1190492559 11778 127.0.0.1 (22 Sep 2007 20:22:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 22 Sep 2007 20:22:39 +0000 (UTC)
In-Reply-To: <fd3t7n$skc$2@news.albasani.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1; .NET
CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506;
InfoPath.2),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 22g2000hsm.googlegroups.com; posting-host=76.197.194.70;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.cb:3885 rec.radio.amateur.equipment:973
rec.radio.amateur.homebrew:1074

On Sep 22, 3:16 pm, John Smith <assemblywiz...@gmail.com> wrote:
> Personally, I run a speech compressor. I doubt many of these idiots
> could install one; apparently, they can't afford to have the local "cb
> tweak" install if for them either.
> Local, I kill the speech compressor, it is only for DX. Frankly, it
> doesn't hurt my feelings they don't have one! <evil grin>
> Keep up the sales pitch--few will be disappointed if they purchase one ...

John... good to hear from someone who has some experience with
processors.
I'm curious about the one you have. Can you tell me about it?
www.telstar-electrnoics.com

From 3932985651584147094

```
X-Google-Thread: fc2a5,72e3e2acf3272749
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!22g2000hsm.googlegroups.com!not-for-
mail
From:  K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Coil Calculations?
Date: Sat, 22 Sep 2007 14:05:56 -0700
Organization: http://groups.google.com
Lines: 27
Message-ID: <1190495156.031372.73200@22g2000hsm.googlegroups.com>
References: <1190438714.690477.28150@57g2000hsv.googlegroups.com>
   <1190442642.020203.94600@22g2000hsm.googlegroups.com>
   <QsmdnaLGTsEen2jbnZ2dnUVZ_rHinZ2d@bright.net>
   <1190479672.020111.291710@o80g2000hse.googlegroups.com>
NNTP-Posting-Host: 71.113.61.183
Mime-Version: 1.0
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X-Trace: posting.google.com 1190495156 21111 127.0.0.1 (22 Sep 2007 21:05:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 22 Sep 2007 21:05:56 +0000 (UTC)
In-Reply-To: <1190479672.020111.291710@o80g2000hse.googlegroups.com>
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Gecko/20070914 Firefox/2.0.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 22g2000hsm.googlegroups.com; posting-host=71.113.61.183;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1075
```

On Sep 22, 9:47 am, Clayton <Evans8...@aol.com> wrote:

> Thanks Tom,
> That calculator doesn't work for me for some reason. Every time I
> tried to use it,it comes up with an error.
> I have tried several different calculators but get varying answerers.
>
> Hi Scott,
> If My math is right I would need 23.5 turns of 12 gauge wire to reach
> the same inductance as the original coil.
>
> Sorry for what may seem like a repeat post,but for some reason I can
> not seem to get comfortable with coils and inductance.
>
> Thank You

I just ran the calculator at the referenced web site. It suggests that you will have a hard time telling the difference between 25 turns of 11AWG and 25 turns of 12AWG, wound on the same form and to the same net length. The calc for the 12AWG shows inductance about 0.3% higher than for the 11AWG. I'd have guessed it would be slightly lower. The SRF's and Q's are similarly close, by that calc.

My feeling is that you are worrying the problem to death...

Cheers,
Tom

```
From 1759099248995779941
X-Google-Thread: fc2a5,90af4c134c0a64d4
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 22 Sep 2007 18:45:46 -0500
Date: Sun, 23 Sep 2007 00:47:35 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Instrument Case For Transceiver
References: <auqdnb24quGF72jbRVnygQA@pipex.net>
In-Reply-To: <auqdnb24quGF72jbRVnygQA@pipex.net>
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Content-Transfer-Encoding: 7bit
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Lines: 15
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X-Trace: sv3-
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qmE3S7bEECEySSBrEAFOr71G6BA=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1076
```

> I'm looking for an instrument case for the BITX20A 20m transceiver,
> the choices in the regular UK outlets don't look too special. What
> I'm looking for is something around 6 inches wide, 8 deep and around
> 3 inches high (150 x 200 x 70 approx). Something with extruded sides
> would fit the bill but it has to be all metal.
>
> I'd appreciate any URLs of suppliers in the UK or US, meanwhile back
> to googling :)

===============================

Charlie , I have seen (simple) aluminium enclosures of the approx size
you need at Maplin (Inverness). Including one with a black plasticised
cover. You can finish those yourself with Hammarite paint from a spray can.

Good luck with homebrewing the BITX20A

Frank   GM0CSZ / KN6WH

```
From -8888045707258258563
X-Google-Thread: fc2a5,29f32f15c5999c53,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!n39g2000hsh.googlegroups.com!not-for-
mail
From:  tv692@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: FREE-I just found this great website where you can get a FREE Plasma TV
This Is NOT a Scam See for Yourself.
Date: Sat, 22 Sep 2007 20:40:16 -0700
Organization: http://groups.google.com
Lines: 8
Message-ID: <1190518816.035944.300070@n39g2000hsh.googlegroups.com>
NNTP-Posting-Host: 207.237.192.89
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1190518816 7433 127.0.0.1 (23 Sep 2007 03:40:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 23 Sep 2007 03:40:16 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n39g2000hsh.googlegroups.com; posting-host=207.237.192.89;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1077
```

Get a free TV with no credit card. Follow this link and sign up where
it says Start Here. Then sign up for an offer I recommend ebay (or
FastWeb if it works on your computer) because you don't need to give
them your credit card # or pay anything. If you choose ebay create a
new account and bid 99 cents on something very expensive like an
iphone or ps3 so you are guaranteed to lose.
http://www.plasmas4free.com/default.aspx?r=908393

```
From -5564954469508341107
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!feeder.news-service.com!sn-xt-ams-06!sn-xt-ams-03!sn-ams!sn-
feed-ams-01!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-
for-mail
```

From: Frank Gilliland <w�renut@NOSPAM�cehouse.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Sun, 23 Sep 2007 02:34:10 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <h5ccf3lp35k2v547gqmjhthrs1d71ep8km@4ax.com>
References: <fcot1n$e72$1@stable.tornevall.net> <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com> <46f05178$0$18942$4c368faf@roadrunner.com>
<1190206510.490666.56380@y42g2000hsy.googlegroups.com>
<3fk3f353f85ilbilajm43r5asv4qooj9ta@4ax.com>
<1190282073.743844.219280@22g2000hsm.googlegroups.com>
<k5k5f31e17jd2blt19ofcp2piuv3vh1o7s@4ax.com>
<1190333303.832852.219920@50g2000hsm.googlegroups.com>
<tue6f3pf6m0c8gnl5lmgj1n8gikakceucd@4ax.com>
<1190474806.897421.57770@57g2000hsv.googlegroups.com>
X-Newsreader: Forte Free Agent 1.93/16.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@supernews.com
Lines: 51
Xref: g2news2.google.com rec.radio.cb:3897 rec.radio.amateur.equipment:978
rec.radio.amateur.homebrew:1078

On Sat, 22 Sep 2007 08:26:46 -0700, Telstar Electronics
<briangriffey@sbcglobal.net> wrote in
<1190474806.897421.57770@57g2000hsv.googlegroups.com>:

>On Sep 20, 10:48 pm, Frank Gilliland <w�renut@NOSPAM�cehouse.net>
>wrote:
>>> How well it works depends on how well you hacked the design from this
>> link I posted (while pointing out some of the many problems with your
>> earlier splatterbox):
>> http://www.ifwtech.co.uk/g3sek/tr-bias/tr-bias1.htm
>
>This is the first time I've been to that link.

Yeah, bullshit. I've posted it four times over the years, and I'm sure
you've run across it in your quest for hackable designs.

> The circuit he shows
>with the two transistors is similar to mine.

Gee, what a suprise.

> My feeling is that his is
>needlessly more complex, but I'm sure it works.

Let's see -your- design, Brian.

> I also agree with his
>statements about the diode method used for tracking. That method works
>a little better than no tracking and is not worth the effort.

Yet you used it in your previous amps. You even defended the design,
which is when I posted the link above. It wasn't long afterwards that
you came up with your last hack job.

> This is
>because putting two diodes in parallel never works right. One always
>has a lower drop... and hogs.

I don't see two diodes in parallel. Time to lay off the sauce, Brian.

```
From -2266345308869172514
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!w3g2000hsg.googlegroups.com!not-for-
mail
From:  Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Sun, 23 Sep 2007 06:06:02 -0700
Organization: http://groups.google.com
Lines: 26
Message-ID: <1190552762.386910.283020@w3g2000hsg.googlegroups.com>
References: <fcot1n$e72$1@stable.tornevall.net>
   <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com>
   <46f05178$0$18942$4c368faf@roadrunner.com>
   <1190206510.490666.56380@y42g2000hsy.googlegroups.com>
   <3fk3f353f85ilbilajm43r5asv4qooj9ta@4ax.com>
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   <1190333303.832852.219920@50g2000hsm.googlegroups.com>
   <tue6f3pf6m0c8gnl5lmgj1n8gikakceucd@4ax.com>
   <1190474806.897421.57770@57g2000hsv.googlegroups.com>
   <h5ccf3lp35k2v547gqmjhthrs1d71ep8km@4ax.com>
NNTP-Posting-Host: 76.197.194.70
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1190552762 27593 127.0.0.1 (23 Sep 2007 13:06:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 23 Sep 2007 13:06:02 +0000 (UTC)
In-Reply-To: <h5ccf3lp35k2v547gqmjhthrs1d71ep8km@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1; .NET
CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506;
InfoPath.2),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: w3g2000hsg.googlegroups.com; posting-host=76.197.194.70;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.cb:3900 rec.radio.amateur.equipment:979
rec.radio.amateur.homebrew:1079

On Sep 23, 4:34 am, Frank Gilliland <w=EFrenut@NOSPAM=EFcehouse.net>
wrote:
> > I also agree with his
> >statements about the diode method used for tracking. That method works
> >a little better than no tracking and is not worth the effort.
> Yet you used it in your previous amps. You even defended the design,
> which is when I posted the link above. It wasn't long afterwards that
> you came up with your last hack job.
> > This is
> >because putting two diodes in parallel never works right. One always
> >has a lower drop... and hogs.
> I don't see two diodes in parallel. Time to lay off the sauce, Brian.

Frank... I didn't say the diode scheme didn't work... I said it didn't
work well. Actaually, the Motorola RF Data Manual shows this scheme in
many of their designs... so maybe you give them a call and let them
know how foolish they are... lol
But seriously, the diode thing isn't worth the trouble unless you are
willing to hand-select components that go alaong with that circuit.
Even then, it's certainly not the best method. By the way... the diode
tracking scheme does try and use two diodes in parallel. Sorry you
don't see that... but that's how it is... and why it doesn't work
well.
www.telstar-electronics.com

From -7003217378214738694
X-Google-Thread: fc2a5,72e3e2acf3272749
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out04a.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews8.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>

```
User-Agent: Icedove 1.5.0.12 (X11/20070606)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Coil Calculations?
References: <1190438714.690477.28150@57g2000hsv.googlegroups.com>
In-Reply-To: <1190438714.690477.28150@57g2000hsv.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 22
Message-ID: <C%vJi.78182$Lu.40277@bignews8.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mabncmnekmdohbabdbdpiflmbcekedmfhojhikkbagflhcbojlefoggencabcafjkgnmgkcidejbjjelgh
mnclipjhpjcddipgodfbjdmiageknhnmoebahngadmnepdlgnijfhbdapjjbfobjfcgcjhohgbigpn
NNTP-Posting-Date: Sun, 23 Sep 2007 11:55:14 EDT
Organization: BellSouth Internet Group
Date: Sun, 23 Sep 2007 15:55:23 +0000
Xref: g2news2.google.com rec.radio.amateur.homebrew:1080

Clayton wrote:
> Hi,
> I have a coil that is wound on a 1.125 inch diameter form and 3 inches
> long space wound with 25 turns of 11 gauge aluminum wire...
> I am trying to duplicate this coil only instead of using 11 gauge wire
> I am using 12 gauge aluminum wire.
> I was wondering if somebody could help me out and make sure my math is
> right since I am unsure of how to go about making sure I match the
> inductance.
>
> I had this figured out once but mistakenly had the wrong wire
> gauges...
>
> Any help is greatly appreciated
> Thank You
>
So long as the new coil is wound at the same pitch as the old coil
the inductance will be the same.  Since you want to use a higher
gauge wire (thiner) this will be easy to do.  The pitch, is of course,
the number of turns per inch.  So if the old coil was close wound, the
new coil will be slightly space wound (air spacing between each turn of
wire).


From 8965631274101345344
X-Google-Thread: fc2a5,72e3e2acf3272749
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!news.kjsl.com!
ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Coil Calculations?
```

Date: 23 Sep 2007 16:07:26 GMT
Organization: The National Capital FreeNet
Lines: 38
Message-ID: <fd62vu$mt0$1@theodyn.ncf.ca>
References: <1190438714.690477.28150@57g2000hsv.googlegroups.com>
<C%vJi.78182$Lu.40277@bignews8.bellsouth.net>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1190563646 23456 134.117.136.48 (23 Sep 2007 16:07:26 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 23 Sep 2007 16:07:26 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1081

ken scharf (wa2mzeNOSPAMBOTS@bellsouth.net) writes:
> Clayton wrote:
>> Hi,
>> I have a coil that is wound on a 1.125 inch diameter form and 3 inches
>> long space wound with 25 turns of 11 gauge aluminum wire...
>> I am trying to duplicate this coil only instead of using 11 gauge wire
>> I am using 12 gauge aluminum wire.
>> I was wondering if somebody could help me out and make sure my math is
>> right since I am unsure of how to go about making sure I match the
>> inductance.
>>
>> I had this figured out once but mistakenly had the wrong wire
>> gauges...
>>
>> Any help is greatly appreciated
>> Thank You
>>
> So long as the new coil is wound at the same pitch as the old coil
> the inductance will be the same. Since you want to use a higher
> gauge wire (thiner) this will be easy to do. The pitch, is of course,
> the number of turns per inch. So if the old coil was close wound, the
> new coil will be slightly space wound (air spacing between each turn of
> wire).

It's worth adding that the size of the wire is often specified because either that's what fits on the coil form (ie if you need X number of turns, a bigger guage won't allow that number of turns in the space) or because there is reason for using heavier guage (such as because it's carrying higher current, or you want it self-supporting).

Coils don't exist by themselves. To serve a purpose, they are associated with capacitance, and that capacitance will allow for adjustment, and may even require adjustment even for a "perfect coil" since there will stray capacitance from the circuitry that never shows up in a schematic, and stray capacitance from the coil itself.

Michael

From -1774270580876079145
X-Google-Thread: fc2a5,90af4c134c0a64d4
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 23 Sep 2007 14:13:51 -0500
Date: Sun, 23 Sep 2007 20:14:04 +0100
From: charlie <wehatespam@wymsey.co.uk>
User-Agent: Thunderbird 1.5.0.12 (X11/20060911)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Instrument Case For Transceiver
References: <auqdnb24quGF72jbRVnygQA@pipex.net>
<e7OdnXkUvdS3NGjbnZ2dnUVZ8qydnZ2d@pipex.net>
In-Reply-To: <e7OdnXkUvdS3NGjbnZ2dnUVZ8qydnZ2d@pipex.net>
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Lines: 29
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NNTP-Posting-Host: 81.178.102.48
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X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1082

Highland Ham wrote:

> ================================
> Charlie , I have seen (simple) aluminium enclosures of the approx size
> you need at Maplin (Inverness). Including one with a black plasticised
> cover. You can finish those yourself with Hammarite paint from a spray can.
> Good luck with homebrewing the BITX20A
>
> Frank   GM0CSZ / KN6WH

Frank,

I've looked at the aluminium boxes which look great for most projects but I want something a bit stronger and professional looking for the transceiver. Maplin also sell the Hammond range of enclosures but their biggest is too small. Since posting I have found a bigger range of the same style at Rapid Electronics and I may go for one of these.

I'm pretty excited about building the BITX20A, my plan is to use an
LCD display using a 10 turn pot/varicap diode instead of a tuning
cap and I aim to bring the cost in at under �100.

Charlie.

--
M0WYM
www.radiowymsey.org

From -7862204429489524177
X-Google-Thread: fc2a5,90af4c134c0a64d4
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 23 Sep 2007 14:33:02 -0500
Date: Sun, 23 Sep 2007 20:33:14 +0100
From: charlie <wehatespam@wymsey.co.uk>
User-Agent: Thunderbird 1.5.0.12 (X11/20060911)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Instrument Case For Transceiver
References: <auqdnb24quGF72jbRVnygQA@pipex.net> <MGeJi.98494$Xa3.4844@attbi_s22>
In-Reply-To: <MGeJi.98494$Xa3.4844@attbi_s22>
X-Enigmail-Version: 0.95.2
Content-Type: text/plain; charset=ISO-8859-1
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NNTP-Posting-Host: 81.178.102.48
X-Trace: sv3-Zkh4vYIN29mOuwGNnTptVwGbM+
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17Y9eoecNBSXRgjsSIU8ZSbi0g==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1083

Harold E. Johnson wrote:
>
<SNIP>
>
> Charlie, at the next boot sale coming near you, look for the A/B switch

> boxes for switching between printers and serial ports and the like. Some are
> roughly the size you're asking about and you just have to make a new front
> and rear panel for them. (They ARE steel, and a bear to work with) As an
> alternative, I have some extruded Aluminum boxes 1/8 th inch wall that are 6
> wide by 8 deep by 1-3/4 high. Open front and back but internal ribs for
> sliding in a couple PC boards and tapped on the ends for 4-40 bolts for
> holding on front and rear panels. If you can live with the reduced height,
> one is yours for the postage.
>
> W4ZCB
>
>

Harold,

I know the steel boxes you refer to, similar new ones are quite cheap in the UK. Thank you very much for your kind offer! I think that your box would be hard to work with as the height is much the same as the LCD counter I want to use! In fact I have located some enclosures very similar to the ones you have.

Thanks again!

Charlie.

--
M0WYM
www.radiowymsey.org

From -1003927732867689092
X-Google-Thread: fc2a5,90af4c134c0a64d4
X-Google-Attributes: gidfc2a5,public,usenet
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Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <auqdnb24quGF72jbRVnygQA@pipex.net> <MGeJi.98494$Xa3.4844@attbi_s22> <1JCdnaN-29fzImvbnZ2dnUVZ8qugnZ2d@pipex.net>
Subject: Re: Instrument Case For Transceiver
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <IhzJi.117444$Fc.82276@attbi_s21>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com

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X-Trace: attbi_s21 1190576360 12.219.135.201 (Sun, 23 Sep 2007 19:39:20 GMT)
NNTP-Posting-Date: Sun, 23 Sep 2007 19:39:20 GMT
Organization: AT&T ASP.att.net
Date: Sun, 23 Sep 2007 19:39:20 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1084
```

> I know the steel boxes you refer to, similar new ones are quite
> cheap in the UK. Thank you very much for your kind offer! I think
> that your box would be hard to work with as the height is much the
> same as the LCD counter I want to use! In fact I have located some
> enclosures very similar to the ones you have.
>
>
> Thanks again!
>
>
> Charlie.

No problem Charlie, and wish you well in your search. The length and width of these were exactly your specs and I have, after seeing someone else do a similar trick with a A/B box, slit the two sides and expanded the height with nothing more than a pair of pieces of Aluminum to bolt top and bottom together. The 1/8 inch wall allows countersinking the bolts and looks quite professional.

W4ZCB

```
From 6962879603088664625
X-Google-Thread: fc2a5,90af4c134c0a64d4
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 23 Sep 2007 14:42:52 -0500
Date: Sun, 23 Sep 2007 20:43:05 +0100
From: charlie <wehatespam@wymsey.co.uk>
User-Agent: Thunderbird 1.5.0.12 (X11/20060911)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Instrument Case For Transceiver
References: <auqdnb24quGF72jbRVnygQA@pipex.net> <YrCdnfZ9-
aGE6mjbnZ2dnUVZ_g2dnZ2d@comcast.com>
In-Reply-To: <YrCdnfZ9-aGE6mjbnZ2dnUVZ_g2dnZ2d@comcast.com>
X-Enigmail-Version: 0.95.2
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-ID: <-KGdnSASN8MhXGvbnZ2dnUVZ8s-qnZ2d@pipex.net>
Lines: 23
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X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.102.48
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SacLMN9yVxrTGtrbzziBkqtTzA==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1085
```

gb wrote:
<SNIP>

> I am going to use an old modem case (hopefully).
> Hundreds of thousands of analog modems at retail office / stores across
> world have hit the trash heap in past 20 years. Some are all plastic, but I
> have retrieved one that may work for my future BIT20A kit.
>
> w9gb

gb,

Thanks for responding, that's a good idea for homebrewing. I think
that I have found what I want at a reasonable price.
(see http://www.hammondmfg.com/1455.htm)

Charlie.

--
M0WYM
www.radiowymsey.org

```
From -1424660732316568029
X-Google-Thread: fc2a5,90af4c134c0a64d4
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 23 Sep 2007 15:27:15 -0500
Date: Sun, 23 Sep 2007 21:29:09 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Instrument Case For Transceiver
```

References: <auqdnb24quGF72jbRVnygQA@pipex.net>
<e7OdnXkUvdS3NGjbnZ2dnUVZ8qydnZ2d@pipex.net>
<JLSdnScunq5tJ2vbnZ2dneKdnZydnZ2d@pipex.net>
In-Reply-To: <JLSdnScunq5tJ2vbnZ2dneKdnZydnZ2d@pipex.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Message-ID: <CbOdnZnTO7O-UWvb4p2dnAA@pipex.net>
Lines: 16
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.103.211
X-Trace:
sv3-18Vlf1vDxf2eToJumM1W9vu4d4qNF4oJmansONsF5YWf4sTGH2jKI04vKt2RXl77iZvxJpn9ZMzEpD
y!kaAqPae/QZ7rQJDtvehFnRaEEUTEMuRHyu8SVhaAms3OTHjxB12cv15qH9ysm70MgYlMy5x2HG8n!
kZt0jkMmivoYMD4=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.36
Xref: g2news2.google.com rec.radio.amateur.homebrew:1086

> I've looked at the aluminium boxes which look great for most
> projects but I want something a bit stronger and professional
> looking for the transceiver. Maplin also sell the Hammond range of
> enclosures but their biggest is too small. Since posting I have
> found a bigger range of the same style at Rapid Electronics and I
> may go for one of these.
>
> I'm pretty excited about building the BITX20A, my plan is to use an
> LCD display using a 10 turn pot/varicap diode instead of a tuning
> cap and I aim to bring the cost in at under �100.

==========================

Charlie , When replacing a variable aircap by a 10turn potmeter +
varicap , I would suggest you pay much attention to the stabilised
voltage feeding the potmeter/varicap ,to ensure acceptable frequency
stability

From 405113506535490584
X-Google-Thread: fc2a5,90af4c134c0a64d4
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-
mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <auqdnb24quGF72jbRVnygQA@pipex.net>
<e7OdnXkUvdS3NGjbnZ2dnUVZ8qydnZ2d@pipex.net>
<JLSdnScunq5tJ2vbnZ2dneKdnZydnZ2d@pipex.net> <CbOdnZnTO7O-UWvb4p2dnAA@pipex.net>
Subject: Re: Instrument Case For Transceiver

Lines: 29
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <d4AJi.100226$Xa3.80349@attbi_s22>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1190579593 12.219.135.201 (Sun, 23 Sep 2007 20:33:13 GMT)
NNTP-Posting-Date: Sun, 23 Sep 2007 20:33:13 GMT
Organization: AT&T ASP.att.net
Date: Sun, 23 Sep 2007 20:33:13 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1087

"Highland Ham" <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote in message
news:CbOdnZnTO7O-UWvb4p2dnAA@pipex.net...
>
>> I've looked at the aluminium boxes which look great for most
>> projects but I want something a bit stronger and professional
>> looking for the transceiver. Maplin also sell the Hammond range of
>> enclosures but their biggest is too small. Since posting I have
>> found a bigger range of the same style at Rapid Electronics and I
>> may go for one of these.
>>
>> I'm pretty excited about building the BITX20A, my plan is to use an
>> LCD display using a 10 turn pot/varicap diode instead of a tuning
>> cap and I aim to bring the cost in at under �100.
> ==========================
> Charlie , When replacing a variable aircap by a 10turn potmeter +
> varicap , I would suggest you pay much attention to the stabilised
> voltage feeding the potmeter/varicap ,to ensure acceptable frequency
> stability

Better yet, the counter already has 95 percent of what's required for a Huff
n Puff stabilizer. Add that and the rig will stay put for months.

Charlie, my boxes are the same external dimensions as that 1455T2201.

Regards
W4ZCB

From -5765215046219528103
X-Google-Thread: fc2a5,90af4c134c0a64d4
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe12.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>

```
Newsgroups: rec.radio.amateur.homebrew
References: <auqdnb24quGF72jbRVnygQA@pipex.net> <MGeJi.98494$Xa3.4844@attbi_s22>
Subject: Re: Instrument Case For Transceiver
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <mmAJi.160$667.79@newsfe12.lga>
Date: Sun, 23 Sep 2007 16:52:26 -0400
NNTP-Posting-Host: 24.236.172.239
X-Trace: newsfe12.lga 1190580754 24.236.172.239 (Sun, 23 Sep 2007 13:52:34 MST)
NNTP-Posting-Date: Sun, 23 Sep 2007 13:52:34 MST
Xref: g2news2.google.com rec.radio.amateur.homebrew:1088
```

"Harold E. Johnson" <W4ZCB@mchsi.com> wrote in message
news:MGeJi.98494$Xa3.4844@attbi_s22...
>
> "charlie" <wehatespam@wymsey.co.uk> wrote in message
> news:auqdnb24quGF72jbRVnygQA@pipex.net...
>> I'm looking for an instrument case for the BITX20A 20m transceiver,
>> the choices in the regular UK outlets don't look too special. What
>> I'm looking for is something around 6 inches wide, 8 deep and around
>> 3 inches high (150 x 200 x 70 approx). Something with extruded sides
>> would fit the bill but it has to be all metal.
>>
>> I'd appreciate any URLs of suppliers in the UK or US, meanwhile back
>> to googling :)

Charlie

I don't know how things are in merrie auld England, but here in the colonies, a brake and shear is surprisingly affordable. With a little up front investment, you can have exactly the right case for every project.

Low priced U.S. suppliers are folks like Northern Tool, Harbor Freight, etc. I don't think I would try shipping one from here, though. They tend to be kinda heavy, but there must be some U.K. equivalent supplier.

..

```
From 6892199878882588238
X-Google-Thread: fc2a5,8369463be39ccb40,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!
news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 23 Sep 2007 19:20:42 -0500
```

Date: Thu, 20 Sep 2007 23:38:00 +1200
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Kenwood TS-820 problems.
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000775-3, 19/09/2007), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-18-44.dsl.telstraclear.net
Message-ID: <46f25b95$1@clear.net.nz>
X-Original-Trace: 20 Sep 2007 23:37:57 +1200, 121-72-18-44.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints abuse@clear.net.nz
Lines: 23
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-Trace: sv3-gAe+snoLF0cshtOF5x2AQNu8qruCG5btAiPLLpDyetKzvM/jvqtguXMaYy6/sTGmLLN+s1VdKUZwJ27!Y7Xg43QqPP2O4JmlE/TWBlACu4NrfCCdpg/NOSBsBxolbxouABqesrv6GQ==
X-Complaints-To: Complaints to abuse@clear.net.nz
X-DMCA-Complaints-To: Complaints to abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1089

Hi guys!
Am still going over the old TS-820 and found another problem re the
meter. It is important when replacing the meter to check the condition
of the multiplying resistors on the underchassis "HT" board and adjust
to suit the actual sensitivity of the meter.
Mine was reading 730 volts off load for final anode voltage but my
trusty old Avometer tells me that it was actually 1,040 volts.
Now this is WAY above the recommended anode voltage for even a 6146B
but since the tansformer secondary is 800 volts its probably correct.
I've now got the voltage reading correctly on the meter, but I'm now
very convinced that the reason for flashover in some 6146's is simply
excessive HT voltage. The finals are running in very dangerous
territory. Just a bit of SWR then Poof!!!
I'm now considering modifying the case and using a TT21 as a final.
These can stand the voltage with ease, are very easy to neutralise
and can give a good 65% efficiency in AB1 up to 30 Mhz. Will give me
around 80 watts out I reckon.
Just that my final box will be a bit taller and the old case will need a
bit of chopping about.
But then its an old rig and it might as well work properly, even
modified. Anyone elese tried major final tube changes in the Kenwood
hybrids?
Regards Cliff Wright ZL1BDA ex G3NIA.

```
From 5811624534474417795
X-Google-Thread: fc2a5,72e3e2acf3272749
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!d55g2000hsg.googlegroups.com!not-for-
mail
From:  Clayton <Evans8119@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Coil Calculations?
Date: Sun, 23 Sep 2007 22:21:15 -0700
Organization: http://groups.google.com
Lines: 27
Message-ID: <1190611275.800150.19440@d55g2000hsg.googlegroups.com>
References: <1190438714.690477.28150@57g2000hsv.googlegroups.com>
   <C%vJi.78182$Lu.40277@bignews8.bellsouth.net>
   <fd62vu$mt0$1@theodyn.ncf.ca>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1190611276 9050 127.0.0.1 (24 Sep 2007 05:21:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 24 Sep 2007 05:21:16 +0000 (UTC)
In-Reply-To: <fd62vu$mt0$1@theodyn.ncf.ca>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 5.1;
FDM),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-td09.proxy.aol.com[CFC87069] (Prism/1.2.1), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: d55g2000hsg.googlegroups.com; posting-host=207.200.116.11;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:1090
```

Thanks Tom,
I went ahead and wound the new coil with the same amount(25)of turns
as the original and will go from there. Like you mentioned I think I
am over worrying it.
I have a Grid Dip meter I have been meaning to learn how to use so
maybe I will try and learn on this coil...

As for the inductance calculator,I have no idea why it never works for
me? Every time I have tried to use it,it gives me an error?

Hi Ken,
I am assuming that the new coil is going to be wound at the same pitch
as the original as the form its wound on has spiraled groves in it
that the wire sits in.

Hi Michael,
The coil is actually part of a trap on a 3 element tri-band beam that

handles full legal limit power.
so I am guessing that the slight change in wire(from 11 to 12
gauge)wont hurt anything.

Can any of you suggest a good book on coils,that includes theory,math
and all that good stuff?

I Appreciate all the help and Patience everyone
Thank You

From -4581536715644136491
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!news.glorb.com!sn-xt-sjc-04!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Frank Gilliland <w�renut@NOSPAM�cehouse.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Mon, 24 Sep 2007 02:35:57 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <e41ff3t3om9477tdp41btn41vc4lsuk4fd@4ax.com>
References: <1190206510.490666.56380@y42g2000hsy.googlegroups.com>
<3fk3f353f85ilbilajm43r5asv4qooj9ta@4ax.com>
<1190282073.743844.219280@22g2000hsm.googlegroups.com>
<k5k5f31e17jd2blt19ofcp2piuv3vh1o7s@4ax.com>
<1190333303.832852.219920@50g2000hsm.googlegroups.com>
<tue6f3pf6m0c8gnl5lmgj1n8gikakceucd@4ax.com>
<1190474806.897421.57770@57g2000hsv.googlegroups.com>
<h5ccf3lp35k2v547gqmjhthrs1d71ep8km@4ax.com>
<1190552762.386910.283020@w3g2000hsg.googlegroups.com>
X-Newsreader: Forte Free Agent 1.93/16.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@supernews.com
Lines: 33
Xref: g2news2.google.com rec.radio.cb:3913 rec.radio.amateur.equipment:985
rec.radio.amateur.homebrew:1091

On Sun, 23 Sep 2007 06:06:02 -0700, Telspam Electronics
<briangriffey@sbcglobal.net> wrote in
<1190552762.386910.283020@w3g2000hsg.googlegroups.com>:

>On Sep 23, 4:34 am, Frank Gilliland <w�renut@NOSPAM�cehouse.net>
>wrote:
>> > I also agree with his
>> >statements about the diode method used for tracking. That method works
>> >a little better than no tracking and is not worth the effort.

```
>> Yet you used it in your previous amps. You even defended the design,
>> which is when I posted the link above. It wasn't long afterwards that
>> you came up with your last hack job.
>> > This is
>> >because putting two diodes in parallel never works right. One always
>> >has a lower drop... and hogs.
>> I don't see two diodes in parallel. Time to lay off the sauce, Brian.
>
>Frank... I didn't say the diode scheme didn't work... I said it didn't
>work well. Actaually, the Motorola RF Data Manual shows this scheme in
>many of their designs... so maybe you give them a call and let them
>know how foolish they are... lol
>But seriously, the diode thing isn't worth the trouble unless you are
>willing to hand-select components that go alaong with that circuit.
>Even then, it's certainly not the best method. By the way... the diode
>tracking scheme does try and use two diodes in parallel. Sorry you
>don't see that... but that's how it is... and why it doesn't work
>well.


I checked the page again thinking maybe it changed, but I still don't
see two diodes. Just one. What two diodes are -you- seeing, Brian?




From 2954634025111157965
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!d55g2000hsg.googlegroups.com!not-for-
mail
From:  Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
Date: Mon, 24 Sep 2007 02:52:47 -0700
Organization: http://groups.google.com
Lines: 10
Message-ID: <1190627567.146982.197680@d55g2000hsg.googlegroups.com>
References: <1190206510.490666.56380@y42g2000hsy.googlegroups.com>
   <3fk3f353f85ilbilajm43r5asv4qooj9ta@4ax.com>
   <1190282073.743844.219280@22g2000hsm.googlegroups.com>
   <k5k5f31e17jd2blt19ofcp2piuv3vh1o7s@4ax.com>
   <1190333303.832852.219920@50g2000hsm.googlegroups.com>
   <tue6f3pf6m0c8gnl5lmgj1n8gikakceucd@4ax.com>
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   <1190552762.386910.283020@w3g2000hsg.googlegroups.com>
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NNTP-Posting-Host: 76.197.194.70
Mime-Version: 1.0
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Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1190627567 1415 127.0.0.1 (24 Sep 2007 09:52:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 24 Sep 2007 09:52:47 +0000 (UTC)
In-Reply-To: <e41ff3t3om9477tdp41btn41vc4lsuk4fd@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506; InfoPath.2),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d55g2000hsg.googlegroups.com; posting-host=76.197.194.70;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.cb:3914 rec.radio.amateur.equipment:986 rec.radio.amateur.homebrew:1092

On Sep 24, 4:35 am, Frank Gilliland <w=EFrenut@NOSPAM=EFcehouse.net>
wrote:
> I checked the page again thinking maybe it changed, but I still don't
> see two diodes. Just one. What two diodes are -you- seeing, Brian?- Hide =
quoted text -

You're kidding me right?... the external tracking diode (one) and the
base-emitter diode of the power transistor (two). Got it?
www.telstar-electronics.com

From 6039040618381780332
X-Google-Thread: fc2a5,8369463be39ccb40
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 24 Sep 2007 06:17:07 -0500
Date: Mon, 24 Sep 2007 12:19:03 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820 problems.
References: <46f25b95$1@clear.net.nz>
In-Reply-To: <46f25b95$1@clear.net.nz>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <G5GdnVXnbbQuAWrbnZ2dneKdnZydnZ2d@pipex.net>
Lines: 32
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.103.211
X-Trace: sv3-KuN+OiasgAEQ3QrC1cuQAfzdnJp+DL3tsB+WfUzd0AFwV4hWsAPhFobeiTbjexzhwdroHihhdD0jNNI!yYsKY/fP9rb9TndjtV+fGRr1XW5EsRc2yuhAlYPfoxtvHetLUgiRkoE2Kc1UKbI6h/iR24L7UCtN!5G/

```
YqXolQKebVEoohKE0Hkrjimo=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1093
```

> Am still going over the old TS-820 and found another problem re the
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> of the multiplying resistors on the underchassis "HT" board and adjust
> to suit the actual sensitivity of the meter.
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> but since the tansformer secondary is 800 volts its probably correct.
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> around 80 watts out I reckon.
> Just that my final box will be a bit taller and the old case will need a
> bit of chopping about.
> But then its an old rig and it might as well work properly, even
> modified. Anyone elese tried major final tube changes in the Kenwood
> hybrids?

=========================

Cliff , Does the TS-820 HV transformer have just 1 HV output or is there
also a lower voltage tapping.
I recall that the early Yaesu FT400/500 series (valve)transceivers had a
transformer with 600 and 850 V tappings.
The TV line sweep valves (tubes) in the PA worked well with the lower
voltage .....but 850V was toooo much especially when you used the PI
tank for matching the antenna (no external matching unit)
I used an old 1970 era FT-400 that way as my first TRX from 1985 - 1989.

Frank   GM0CSZ / KN6WH

```
From 3717953000232647766
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 24 Sep 2007 06:23:35 -0500
```

Date: Mon, 24 Sep 2007 12:25:30 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the SkyWave 2879ABTC?
References: <1190206510.490666.56380@y42g2000hsy.googlegroups.com>
<3fk3f353f85ilbilajm43r5asv4qooj9ta@4ax.com>
<1190282073.743844.219280@22g2000hsm.googlegroups.com>
<k5k5f31e17jd2blt19ofcp2piuv3vh1o7s@4ax.com>
<1190333303.832852.219920@50g2000hsm.googlegroups.com>
<tue6f3pf6m0c8gnl5lmgj1n8gikakceucd@4ax.com>
<1190474806.897421.57770@57g2000hsv.googlegroups.com>
<h5ccf3lp35k2v547gqmjhthrs1d71ep8km@4ax.com>
<1190552762.386910.283020@w3g2000hsg.googlegroups.com>
<e41ff3t3om9477tdp41btn41vc4lsuk4fd@4ax.com>
<1190627567.146982.197680@d55g2000hsg.googlegroups.com>
In-Reply-To: <1190627567.146982.197680@d55g2000hsg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Message-ID: <9bmdnTZHGYCqA2rbRVnyggA@pipex.net>
Lines: 16
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.103.211
X-Trace:
sv3-0uDWXdLp9jZAtXX1kbKga8sawKGvlz5TW6ytdyztS0+nIW14qUsQNFUNEXNG+YJE42HvBjkCuE5B0O
v!02XTTnj2CrEDr7avib9/yF/Oc519N458iLS7gDYroioLeuDP/zPQyZ0m29x4MXASLCBtTV2xo5N4!
TbN0c2M7MNs/HWw=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.cb:3916 rec.radio.amateur.equipment:987 rec.radio.amateur.homebrew:1094

Telstar Electronics wrote:
> On Sep 24, 4:35 am, Frank Gilliland <w�renut@NOSPAM�cehouse.net>
> wrote:
>> I checked the page again thinking maybe it changed, but I still don't
>> see two diodes. Just one. What two diodes are -you- seeing, Brian?- Hide quoted text -
>
> You're kidding me right?... the external tracking diode (one) and the
> base-emitter diode of the power transistor (two). Got it?
> www.telstar-electronics.com
>

====================================
What a totally useless dialogue on a topic not relevant to this NG

Would you please find another outlet for your egos.

Frank   GM0CSZ / KN6WH

From 5668945075686508173
X-Google-Thread: fc2a5,a04d585a393bb43a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k79g2000hse.googlegroups.com!not-for-mail
From: G4ZOW <sales@transmittersrus.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 1500w Mobile
Date: Sat, 01 Sep 2007 23:13:58 -0700
Organization: http://groups.google.com
Lines: 24
Message-ID: <1188713638.248364.24620@k79g2000hse.googlegroups.com>
References: <1187616592.438900.108130@w3g2000hsg.googlegroups.com>
   <op.txkxyon8aiss39@localhost>
NNTP-Posting-Host: 89.243.186.130
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1188713638 7695 127.0.0.1 (2 Sep 2007 06:13:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 2 Sep 2007 06:13:58 +0000 (UTC)
In-Reply-To: <op.txkxyon8aiss39@localhost>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k79g2000hse.googlegroups.com; posting-host=89.243.186.130;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:936

Hi Denny & Larry,

I'm aware of the large amp's used on 27MHz and have a heavily modified 16 device 14v CB amp in my collection with a proper bias circuit for SSB operation. However, it's still only suitable for 10 through 15m in it's present configuration.

I took my blinkers off around 84 when I was in the states and drove non-stop from one 'shootout' in Tyler TX to another in the Windy City!

Larry, My HF mobile vehicle runs an early turbo diesel engine and was built before engine management systems were introduced. Heck, being diesel there's not even a traditional ignition circuit to interfere with. Receive's also nice and quiet:-)

So, without increasing PA voltage it seems one's still stuck with a bunch of bi-polars. How technology has move on in 25 years - not.

Phil G4ZOW

```
From -8443239793966905838
X-Google-Thread: fc2a5,1836fa0dc1da2743
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <4684e2cd$0$24717$4c368faf@roadrunner.com>
Subject: Re: Demodulator
Date: Sun, 2 Sep 2007 08:25:07 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Lines: 18
Message-ID: <46daabb3$0$16537$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 71.68.80.78
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:937
```

"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
news:4684e2cd$0$24717$4c368faf@roadrunner.com...

> Revamping an old homebrew SW receiver I built about 30 years ago. Is there
> an IC that will serve as an AM SSB FM detector. The existing AM/SSB
> detector is on a board the size of a playing card.
>

I built a new first mixer for my old rx last night and installed it. The old one used a single transistor, I am not sure what it was but the new one uses a pair of FETs in a balanced circuit. You wouldnt believe the improvement. Now I know why I put this thing in the back of the closet about 15 years ago. I was going to rebuild the whole radio modernizing it but I may stop with this.

Jimmie

```
From -2027120881134733488
X-Google-Thread: 106d41,e25f8e7e7f7cc3a1
X-Google-Thread: 108122,5f4b546f0161ebac
```

X-Google-Thread: fc2a5,5f4b546f0161ebac
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!eweka.nl!lightspeed.eweka.nl!
multikabel.net!feed20.multikabel.net!news.germany.com!news.tornevall.net!not-for-
mail
From: "Radioisfun" <radioisfun@home.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax has Arrived... Introductory IT'S A TURD!
Date: Sun, 2 Sep 2007 16:57:36 -0400
Organization: TornevallNET - http://news.tornevall.net
Lines: 5
Message-ID: <fbf7fo$6gr$1@stable.tornevall.net>
References: <1186168563.032053.11960@i13g2000prf.googlegroups.com>
<46b3b6e5_3@mk-nntp-2.news.uk.tiscali.com>
<1186231447.136481.50550@q3g2000prf.googlegroups.com>
<u8gkb3di4k2jc329q4l96h2la6ba8kcm67@4ax.com>
<1186615639.897400.127530@i13g2000prf.googlegroups.com>
<rb6mb31ubltji64j2lcnflr3an2gp8n7sb@4ax.com>
<de6mb3lhn4h14j4mmlblmqtsu6h9sum2mp@4ax.com>
<1186932633.661667.170370@j4g2000prf.googlegroups.com>
NNTP-Posting-Host: 8a2480872f8ec9efc31d5edd9be0dce2
X-Trace: 519a0abdb71aacbfdba1745f2445d9e9
X-Complaints-To: abuse@tornevall.net
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-Validate-Post: http://news.tornevall.net/validate.php?
trace=519a0abdb71aacbfdba1745f2445d9e9
X-Posting-User: 1ca0af0374edae312054ffa52095f0bd
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.cb:3293 rec.radio.amateur.equipment:845
rec.radio.amateur.homebrew:938

IDIOT!
"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
news:1186932633.661667.170370@j4g2000prf.googlegroups.com...

From 8536520268248753243
X-Google-Thread: 106d41,1691b8f11c1a6060
X-Google-Thread: 108122,8f9fc75e63debfe3
X-Google-Thread: fc2a5,467b24c86baadaa8,start
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!eweka.nl!lightspeed.eweka.nl!
feeder1.cambrium.nl!feed.tweaknews.nl!amsnews11.chello.com!nuzba.szn.dk!pnx.dk!
news.tornevall.net!not-for-mail
From: "Radioisfun" <radioisfun@home.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew

Subject: Re: Worldwide Feedback Pouring in... VoiceMax is a Huge PILE OF STEAMING FECES!
Date: Sun, 2 Sep 2007 17:05:31 -0400
Organization: TornevallNET - http://news.tornevall.net
Lines: 5
Message-ID: <fbf7ui$71s$1@stable.tornevall.net>
References: <1188650586.463755.24550@o80g2000hse.googlegroups.com>
<r2gCi.51563$YL5.29757@newssvr29.news.prodigy.net>
<1188755133.409682.149890@50g2000hsm.googlegroups.com>
<1188755786.311857.206760@y42g2000hsy.googlegroups.com>
<1188756052.447473.42100@d55g2000hsg.googlegroups.com>
<1188760068.299856.157840@w3g2000hsg.googlegroups.com>
<1188766837.376663.215700@50g2000hsm.googlegroups.com>
NNTP-Posting-Host: d3a934513f59c104887a6de5c4fd1235
X-Trace: 5a461df679f92065dd83741ff732bb2c
X-Complaints-To: abuse@tornevall.net
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-Validate-Post: http://news.tornevall.net/validate.php?trace=5a461df679f92065dd83741ff732bb2c
X-Posting-User: 1ca0af0374edae312054ffa52095f0bd
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.cb:3296 rec.radio.amateur.equipment:846 rec.radio.amateur.homebrew:939

IDIOT!
"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message news:1188766837.376663.215700@50g2000hsm.googlegroups.com...

From -5039948196882252581
X-Google-Thread: 106d41,1691b8f11c1a6060
X-Google-Thread: 108122,8f9fc75e63debfe3
X-Google-Thread: fc2a5,467b24c86baadaa8
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!news.tornevall.net!not-for-mail
From: "Radioisfun" <radioisfun@home.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Worldwide Feedback Pouring in... Telstar Electronics VoiceMax is a Huge pile of steaming feces
Date: Sun, 2 Sep 2007 17:11:06 -0400
Organization: TornevallNET - http://news.tornevall.net
Lines: 5
Message-ID: <fbf892$7g1$1@stable.tornevall.net>
References: <1188650586.463755.24550@o80g2000hse.googlegroups.com>
<r2gCi.51563$YL5.29757@newssvr29.news.prodigy.net>

```
<1188755133.409682.149890@50g2000hsm.googlegroups.com>
<1188755786.311857.206760@y42g2000hsy.googlegroups.com>
<1188756052.447473.42100@d55g2000hsg.googlegroups.com>
<1188760068.299856.157840@w3g2000hsg.googlegroups.com>
<1188766837.376663.215700@50g2000hsm.googlegroups.com>
<1188767227.521521.104110@19g2000hsx.googlegroups.com>
NNTP-Posting-Host: de0e51cf4fffd73b70cb1d00c0edb3b7
X-Trace: f34946e8ab4ebd83e830f4eed8632c81
X-Complaints-To: abuse@tornevall.net
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-Validate-Post: http://news.tornevall.net/validate.php?
trace=f34946e8ab4ebd83e830f4eed8632c81
X-Posting-User: 1ca0af0374edae312054ffa52095f0bd
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.cb:3298 rec.radio.amateur.equipment:847
rec.radio.amateur.homebrew:940
```

IDIOT!
"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
news:1188767227.521521.104110@19g2000hsx.googlegroups.com...

```
From 8787292609501476367
X-Google-Thread: 106d41,1691b8f11c1a6060
X-Google-Thread: 108122,8f9fc75e63debfe3
X-Google-Thread: fc2a5,467b24c86baadaa8
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 02 Sep 2007 17:52:29 -0500
From: "John Doe" <hgorden@adelphia.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <1188650586.463755.24550@o80g2000hse.googlegroups.com>
<r2gCi.51563$YL5.29757@newssvr29.news.prodigy.net>
<1188755133.409682.149890@50g2000hsm.googlegroups.com>
<1188755786.311857.206760@y42g2000hsy.googlegroups.com>
<1188756052.447473.42100@d55g2000hsg.googlegroups.com>
<1188760068.299856.157840@w3g2000hsg.googlegroups.com>
<1188766837.376663.215700@50g2000hsm.googlegroups.com>
<1188767227.521521.104110@19g2000hsx.googlegroups.com>
<fbf892$7g1$1@stable.tornevall.net>
Subject: Re: Worldwide Feedback Pouring in... Telstar Electronics VoiceMax is a
Huge pile of steaming feces
Date: Sun, 2 Sep 2007 18:52:55 -0400
X-Priority: 3
X-MSMail-Priority: Normal
```

X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <ktudnZBSoOwwo0bbnZ2dnUVZ_uqvnZ2d@comcast.com>
Lines: 13
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 76.100.201.181
X-Trace: sv3-MPVnjgY8jBzurhnq0oG7pv7QUkSFGvwMpxF571NcoXKWcU/
SaBwX9oX0i3Rw1T8vYSZ4eNd3t+z/+eZ!yrZT3twb2MIeIjwJFG6ci9zsrZ4bz9za9RP39/
vg2VqpZ2+1m7VyNspxAWLYCXOpWb8/OcGamZya!r5Ext77+bPZ41+Cxcfr1+4OJSKpla1U=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.cb:3301 rec.radio.amateur.equipment:848 rec.radio.amateur.homebrew:941

"Radioisfun" <radioisfun@home.com> wrote in message
news:fbf892$7g1$1@stable.tornevall.net...
> IDIOT!
> "Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
> news:1188767227.521521.104110@19g2000hsx.googlegroups.com...

Why are you knocking this product? Did you purchase one of these units and
have you tried to use it or do you just have something against Telstar and
you like to bitch??

I am not involved with nor have any monetary investments with Telstar!

From 5969041179633560212
X-Google-Thread: fc2a5,7e8b1f7f619902b3,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k79g2000hse.googlegroups.com!not-for-mail
From: "Ross, NS7F" <rjtucke@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Kanga flooded and closed for time being.
Date: Sun, 02 Sep 2007 23:05:21 -0000
Organization: http://groups.google.com
Lines: 24
Message-ID: <1188774321.418524.161660@k79g2000hse.googlegroups.com>
NNTP-Posting-Host: 72.223.33.22
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1188774321 7126 127.0.0.1 (2 Sep 2007 23:05:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 2 Sep 2007 23:05:21 +0000 (UTC)

User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; PPC Mac OS X; en) AppleWebKit/419.2 (KHTML, like Gecko) Safari/419.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k79g2000hse.googlegroups.com; posting-host=72.223.33.22;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:942

>From the kangaus.com website:

"Findlay Ohio was hit by massive flooding about a week ago. We were one of the lucky ones - we only had water up to the ceiling in the basement. Others lost a lot more. All the Kanga US equipment and inventory (except the DK9SQ masts - they were in the garage) has been lost. We have spent the past three days just emptying the rubble from our basement, and probably have another two days to go just to get everything out. The we will have to tear out the walls and ceiling and begin the cleanup and repair. I have no idea how long that will take. After that is done I will be able to accept orders for masts only, and I will have to decide what to do about the future of Kanga US. If anyone has submitted an order or is waiting on a shipment, I will have to provide a refund - there is just nothing available to ship. It will be at least three weeks before I will be able to take care of any issues..."

First and most importantly, let's take a minute for solidarity in this time of need. Second, however - where can we get a hold of Rick Campbell's R2/etc receiver kits!?

73,
Ross

From 5587083108745118958
X-Google-Thread: fc2a5,8b2be193c8e20b8f,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!newsfeed-3001.bay.webtv.net!newssorter-3001.bay.webtv.net!not-for-mail
From: mahon2007@msn.com (Edward Mahon)
Newsgroups: rec.radio.amateur.homebrew
Subject: Lisa And Ed (Show #4 on Meth)
Date: Sun, 2 Sep 2007 18:54:52 -0700
Organization: WebTV Subscriber
Lines: 121
Message-ID: <1082-46DB696C-2458@baytvnwsxa001.msntv.msn.com>
NNTP-Posting-Host: baytvnwsxa001.msntv.msn.com
Mime-Version: 1.0 (WebTV)
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
X-WebTV-Signature: 1
     ETAtAhR8Wh9NfDm496mRSkHhI/bTQbXrBwIVAJk5vgBl5Y0p+/Y7r+QuEhHdSyc5

Content-Disposition: Inline
Xref: g2news2.google.com rec.radio.amateur.homebrew:943

Lisa And Ed Show #4

http://www.evoca.com/LisaAndEd/LisaEd

&

http://www.myspace.com/Lisa_And_Ed

On show #4 Lisa and I talk about the Meth epidemic that plagues the United States, through poetry and discussion. The following poems were recited:

Tina

Put to death my former self,
from poisons I consider wealth.
That take away, from all my pain,
and eat away my fragile brain.
And sleeps become a bitter chore,
So night is now my wicked whore.
She keeps me hidden out of sight,
away from all the blessed light.
And I no longer have a choice,
for Tina's now my only voice.
She tells me how I should feel,
she never lets my body heel.
And I would crawl across the floor,
for the chance to get just a little more.
And I'll play my hand
for the cards are dealt,
until I've joined my former self!

Meth

Brain patterns of new.
Scares embedded into your mind.
Not sure if your you.
Not sure of your place or your time.
See shadows that move.
Everything is coming alive.
Not even a clue.
Not even trusting your own eyes.

Blisters on your tongue.
You fear the sun.
Liquids that you crave,
Are flushed away.
Kingdom come has come.

Your hearts a drum.
Running up the days.
For rest you prey.

Thin blue avenues.
Antifreeze is flowing inside.
Don't know your next move.
Don't know if you will even try
Nightmares have come true.
Dr. Jeckle's now Mr. Hyde
Don't know what to do.
Don't know if you will live or die.

Leather for your skin.
Your souls worn thin.
Trying to avoid.
The inner void.
Where did I begin.
This life of sin.
Am I just annoyed
Or paranoid

Ed~xxxx

Underneath the flesh
Vacant is the hole
No need to confess
Its out of our control
Just beyond the noble rot
though bitter be thy name
You help me find what I forgot
kept hidden from the pain
And though distance smiles arriving
Get caught up inside black clouds
I know that we're surviving
Like silver lining kept in ancient shrouds
And all that I need to triumph
Is the gentle voice that you provide
And together we'll rely on
A kind of love that's lost with pride
Now I look forward to the future
And all the comfort that it brings
Though fresh with blood stained suture
I have finally found my wings.

Tame less

She's a colorful bouquet of splendor,
Many lives that fall apart,
And come together.
Her cries echo from empty bottles,

Through love, and fear,
And rage, and lust.
A plaything betrayed,
By all she trusts.
Her hand and heart are objects,
Of feverish pursuit.
Possessed by no man,
My desperation is mirrored
In her lonely eyes.
She will not be tamed
This lovely, wild creature.

(Spoken word internet radio)

```
From -12172093341837092
X-Google-Thread: fcc6e,5ae064895d621417,start
X-Google-Thread: fc8b1,5ae064895d621417,start
X-Google-Thread: fc2a5,5ae064895d621417,start
X-Google-Thread: 1109af,5ae064895d621417,start
X-Google-Attributes: gidfcc6e,gidfc8b1,gidfc2a5,gid1109af,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news2.google.com!news.glorb.com!
feed.cgocable.net!read1.cgocable.net.POSTED!53ab2750!not-for-mail
From: "Norm VE3CZI" <ve3czi@arrl.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
,rec.radio.swap
Subject: FS: Service Manuals for Commercial,  Amateur Equipment, Test Equipment
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <vFWCi.1322$tx1.202@read1.cgocable.net>
Date: Mon, 3 Sep 2007 12:31:17 -0400
NNTP-Posting-Host: 24.141.130.191
X-Complaints-To: news@cogeco.net
X-Trace: read1.cgocable.net 1188837083 24.141.130.191 (Mon, 03 Sep 2007 12:31:23
EDT)
NNTP-Posting-Date: Mon, 03 Sep 2007 12:31:23 EDT
Organization: Cogeco Cable
Xref: g2news2.google.com rec.radio.amateur.antenna:5504
rec.radio.amateur.boatanchors:1032 rec.radio.amateur.homebrew:944
rec.radio.swap:1108
```

Have a quantity of Test Equipment and Radio Communications Service Manuals,

both Commercial & Amateur
Most of them are in Like New Condition.
Prices are reasonable...mailing may more than the manuals..depending where you live!

Please check my site: www.rodemi.com   for what is available.
Click on the MANUALS Heading.
I am updating the site as time allows.
I recently retired from the Commercial 2-way radio business and would like these useful manuals to find a good home.

Thanks for looking....Norm VE3CZI
Email me Directly: <insert Call Sign> at arrl.net ....<call sign> is ve3czi

```
From -8968228011515360942
X-Google-Thread: fc2a5,d8c9f49982add164,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news1.google.com!news.glorb.com!
wn11feed!worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!dfa70db1!not-
for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: NOS TUBES + MO STUFF COMING
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <ddXCi.487481$p47.266179@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: 36cb8add5dab98bc186dd21ec18f24e2
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1188839369
36cb8add5dab98bc186dd21ec18f24e2 (Mon, 03 Sep 2007 17:09:29 GMT)
NNTP-Posting-Date: Mon, 03 Sep 2007 17:09:29 GMT
Organization: AT&T Worldnet
Date: Mon, 03 Sep 2007 17:09:29 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:945
```

Just added these tubes all NOS: 2 X GE 6JS6C, 2X RCA 6HF5, 2 X JAN/SYLVANIA 5933/807W,

5750 X 5, 5749 X5. WATCH FOR 2 STRAIGHT CW KEYS, 2 X HEATH FREQ COUNTERS,++

AN ANTIQUE RADIO LOOP IN-DOOR ANTENNA AND ANOTHER ELECTRO-VOICE

MICROPHONE.

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

Tnx for looking, 73 Heytubeguy

From 4418087384334023270
X-Google-Thread: fc2a5,1b940ae2d9a5afbc,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: CWS-1
Date: Mon, 3 Sep 2007 16:54:51 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Lines: 8
Message-ID: <46dc7495$0$31876$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 71.68.80.78
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:946

What the heck is a CWS - 1. I picked up one this weekend and it looks fairly butchered. I got it for parts. Looks like a transceiver and I am guessing it used a pair of 6146s in the final.

Jimmie

From -3721131499565060042
X-Google-Thread: fc2a5,f0768beb2500250f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews9.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.12 (X11/20070606)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Re: Single Tube Modulator
References: <13dem6fl1r7ok85@corp.supernews.com>
In-Reply-To: <13dem6fl1r7ok85@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 18
Message-ID: <YTmDi.34339$mp6.9006@bignews9.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
okjdhlmeenidhihjdbdpiflmbcekedmfhojhikkbagflhcbolijfdgbajiobfibimofndannckjpjiiehn
jljghabcopfkomkcinijmanphdkibonmoebahngadmnepddfjhgbapikjmnhdkbocbpoehkbeemghn
NNTP-Posting-Date: Tue, 04 Sep 2007 20:38:16 EDT
Organization: BellSouth Internet Group
Date: Wed, 05 Sep 2007 00:40:53 +0000
Xref: g2news2.google.com rec.radio.amateur.homebrew:947

Jack Schmidling wrote:
> Is it convenience or the laws of physics that modulators are always two
> tubes in push pull?
>
> I have an extra 811 and socket and was wondering if there is a way to
> use this to plate modulate my 811 cw transmitter.
>
> pics of 811 project at http://schmidling.com/radio.htm
>
>
> js
>
>
Reminds me of a phono oscillator I built as a teenager out of old TV and
radio parts.  Had a 6F6G oscillator modulated by another 6F6 coupled by
an old TV filter choke.  The oscillator coil was wound around a
cardboard tube from a roll of toilet paper.  With 300 volts on the
plate, It had a range of a few city blocks.


From 4793395780653847472
X-Google-Thread: fc2a5,f0768beb2500250f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!sn-xt-sjc-05!sn-xt-sjc-08!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: John Ferrell <johnferrell@sprintmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Single Tube Modulator
Date: Wed, 05 Sep 2007 10:24:01 -0400
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <idetd39oida7k7gjvv7dt53jq845csee84@4ax.com>
References: <13dem6fl1r7ok85@corp.supernews.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
```

Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 22
Xref: g2news2.google.com rec.radio.amateur.homebrew:948

On Thu, 30 Aug 2007 17:54:46 -0600, Jack Schmidling <arf@mc.net>
wrote:

>Is it convenience or the laws of physics that modulators are always two
>tubes in push pull?
>
>I have an extra 811 and socket and was wondering if there is a way to
>use this to plate modulate my 811 cw transmitter.
>
>pics of 811 project at http://schmidling.com/radio.htm
>
>
>js
Finding a plate modulation transformer may be the hardest part. They
have always been expensive.

Cathode modulation is my next choice with grid modulation as a last
resort.

John Ferrell W8CCW
"Life is easier if you learn to
plow around the stumps"

From 2893753799572901716
X-Google-Thread: fc2a5,f0768beb2500250f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns11feed!worldnet.att.net!63.218.45.11!nx02.iad01.newshosting.com!newshosting.com!198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!panix!panix2.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Single Tube Modulator
Date: Wed, 5 Sep 2007 11:39:43 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 31
Message-ID: <Pine.NEB.4.64.0709051134200.2693@panix2.panix.com>
References: <13dem6fl1r7ok85@corp.supernews.com>
NNTP-Posting-Host: panix2.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader1.panix.com 1189006784 27851 166.84.1.2 (5 Sep 2007 15:39:44 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 5 Sep 2007 15:39:44 +0000 (UTC)
In-Reply-To: <13dem6fl1r7ok85@corp.supernews.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:949

On Thu, 30 Aug 2007, Jack Schmidling wrote:

> Is it convenience or the laws of physics that modulators are always two tubes
> in push pull?
>
> I have an extra 811 and socket and was wondering if there is a way to use
> this to plate modulate my 811 cw transmitter.

The most practical approach (someone else mentioned this) would be Heising modulation. The modulator 811 would be, like, in parallel with the RF amp 811 and both fed with DC through a fairly big choke (10 Henry or more). There has to be a dropping resistor that eats up some of the DC voltage going to the 811 RF amp, and you'll need many watts (5+?) of audio to drive the grid of the 811 modulator.

Modulation transformers are still made by Peter Dahl (?) in Elpasso, Texas, and will be several hundred bucks at least. I think I have never seen a single ended modulator circuit unless it was for very low power.

> pics of 811 project at http://schmidling.com/radio.htm
>
>
> js
>
>
> --
> PHOTO OF THE WEEK: http://schmidling.com/pow.htm
> Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com
>

```
From 5427171195690630777
X-Google-Thread: fc2a5,f0768beb2500250f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y42g2000hsy.googlegroups.com!not-for-
mail
From:  K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Single Tube Modulator
Date: Wed, 05 Sep 2007 09:47:23 -0700
Organization: http://groups.google.com
Lines: 42
Message-ID: <1189010843.922356.58020@y42g2000hsy.googlegroups.com>
References: <13dem6fl1r7ok85@corp.supernews.com>
   <Pine.NEB.4.64.0709051134200.2693@panix2.panix.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1189010844 8772 127.0.0.1 (5 Sep 2007 16:47:24 GMT)
```

X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 5 Sep 2007 16:47:24 +0000 (UTC)
In-Reply-To: <Pine.NEB.4.64.0709051134200.2693@panix2.panix.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.6) Gecko/20070725 Firefox/2.0.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y42g2000hsy.googlegroups.com; posting-host=192.25.240.225;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:950

On Sep 5, 8:39 am, Straydog <a...@panix.com> wrote:
> On Thu, 30 Aug 2007, Jack Schmidling wrote:
> > Is it convenience or the laws of physics that modulators are always two tubes
> > in push pull?
>
> > I have an extra 811 and socket and was wondering if there is a way to use
> > this to plate modulate my 811 cw transmitter.
>
> The most practical approach (someone else mentioned this) would be Heising
> modulation. The modulator 811 would be, like, in parallel with the RF amp
> 811 and both fed with DC through a fairly big choke (10 Henry or more).
> There has to be a dropping resistor that eats up some of the DC voltage
> going to the 811 RF amp, and you'll need many watts (5+?) of audio to
> drive the grid of the 811 modulator.
>
> Modulation transformers are still made by Peter Dahl (?) in Elpasso,
> Texas, and will be several hundred bucks at least. I think I have never
> seen a single ended modulator circuit unless it was for very low power.
>
> > pics of 811 project athttp://schmidling.com/radio.htm
>
> > js
>
> > --
> > PHOTO OF THE WEEK:http://schmidling.com/pow.htm
> > Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silverhttp://schmidling.com

Of course, Heising is single-ended. In normal Heising, the choke must handle the DC current of the PA and the modulator, and not saturate in the process. By using instead a center-tapped winding you can (nearly) balance the DC, so the choke saturation isn't so much a problem. If you use an audio output transformer for the job, say 4000 ohms CT to 8 ohms, that's an 11:1 turns ratio from half the primary to the secondary, and you can add the secondary to the PA side to get a little higher (a little closer to 100%) modulation. Not that audio output transformers of an appropriate size are a dime a dozen, but there's at least some hope of finding one "kicking around" somewhere.

Or--maybe you can find someone taking an old plate-modulated AM broadcast transmitter out of service and get a really good set of modulation transformer, modulation choke, and coupling capacitor. ;-)

From 2472457445373186170
X-Google-Thread: fc2a5,f0768beb2500250f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <13dem6fl1r7ok85@corp.supernews.com> <Pine.NEB.4.64.0709051134200.2693@panix2.panix.com> <1189010843.922356.58020@y42g2000hsy.googlegroups.com>
Subject: Re: Single Tube Modulator
Lines: 34
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <kLBDi.86443$Fc.12087@attbi_s21>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1189013584 12.219.135.201 (Wed, 05 Sep 2007 17:33:04 GMT)
NNTP-Posting-Date: Wed, 05 Sep 2007 17:33:04 GMT
Organization: AT&T ASP.att.net
Date: Wed, 05 Sep 2007 17:33:04 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:951

> Of course, Heising is single-ended. In normal Heising, the choke must handle the DC current of the PA and the modulator, and not saturate in the process. By using instead a center-tapped winding you can (nearly) balance the DC, so the choke saturation isn't so much a problem. If you use an audio output transformer for the job, say 4000 ohms CT to 8 ohms, that's an 11:1 turns ratio from half the primary to the secondary, and you can add the secondary to the PA side to get a little higher (a little closer to 100%) modulation. Not that audio output transformers of an appropriate size are a dime a dozen, but there's at least some hope of finding one "kicking around" somewhere.
>
> Or--maybe you can find someone taking an old plate-modulated AM broadcast transmitter out of service and get a really good set of modulation transformer, modulation choke, and coupling capacitor. ;-)
>

Tom

August 1956 QST has a class B modulator that works without a modulation transformer! Two tubes, which goes against the original posters question, but what the hay. If you don't have to buy the transformer, you can afford the second tube.

Still looking for my class B/A article on the 304TL Heising bias shift modulator. Am certain that the author was Bill Orr, W6SAI, cause I called him on the phone when my 304TH didn't work as advertised. Very nice and helpful to an almost beginner, but that article doesn't exist in any QST to back before I would have read it. As I now recall, I think maybe Bill wrote it up in CQ magazine and got paid for it. Don't have those on CD's.

Regards
W4ZCB

```
From -8949563347136035807
X-Google-Thread: 106d41,1691b8f11c1a6060
X-Google-Thread: fc2a5,214be7c356ed07ef,start
X-Google-Thread: 110aca,214be7c356ed07ef,start
X-Google-Thread: 10bc16,214be7c356ed07ef,start
X-Google-Thread: f95a4,214be7c356ed07ef,start
X-Google-Attributes: gid106d41,gidfc2a5,gid110aca,gid10bc16,gidf95a4,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!news.tornevall.net!
not-for-mail
From: "Radioisfun" <radioisfun@home.com>
Newsgroups:
rec.radio.cb,rec.radio.amateur.homebrew,alt.autos.nissan,rec.autos.tech,alt.autos.
nissan.maxima
Subject: Re: Worldwide Feedback Pouring in..Telstar Electronics VoiceMax is a Huge
TURD!
Date: Wed, 5 Sep 2007 14:34:39 -0400
Organization: TornevallNET - http://news.tornevall.net
Lines: 5
Message-ID: <fbms74$bub$1@stable.tornevall.net>
References: <1188791175.050072.262120@22g2000hsm.googlegroups.com>
<fbg0aj$50l$1@news.albasani.net>
<1188791764.429577.33300@o80g2000hse.googlegroups.com>
<1188824639.825080.178520@k79g2000hse.googlegroups.com>
<1188880712.693296.88410@o80g2000hse.googlegroups.com>
<nhfrd3tfddkbspllk4k0ksv4ugmh2dathe@4ax.com>
<1188945746.454046.37350@y42g2000hsy.googlegroups.com>
<1nvrd3d96641tuseae3rd1a3mslfqckf1v@4ax.com>
<46de0b7a$0$19565$4c368faf@roadrunner.com>
<hrhtd3hh45757p35b65qoot2iqkhalcfhp@4ax.com>
<1189014260.603063.56160@w3g2000hsg.googlegroups.com>
NNTP-Posting-Host: d2907636a5112a35cbe966b8f0df3955
X-Trace: e828be592a7446990026c60e67edeb44
X-Complaints-To: abuse@tornevall.net
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-Validate-Post: http://news.tornevall.net/validate.php?
trace=e828be592a7446990026c60e67edeb44
```

```
X-Posting-User: 1ca0af0374edae312054ffa52095f0bd
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.cb:3451 rec.radio.amateur.homebrew:952
alt.autos.nissan:1059 rec.autos.tech:7117 alt.autos.nissan.maxima:507

IDIOT!
"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
news:1189014260.603063.56160@w3g2000hsg.googlegroups.com...




From -8100340986640801166
X-Google-Thread: fc2a5,983673e7e58448eb,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!50g2000hsm.googlegroups.com!not-for-
mail
From:  telcodev <telcodev@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Need o-scope manual
Date: Wed, 05 Sep 2007 21:38:27 -0000
Organization: http://groups.google.com
Lines: 6
Message-ID: <1189028307.796630.74790@50g2000hsm.googlegroups.com>
NNTP-Posting-Host: 63.228.106.49
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1189028308 3120 127.0.0.1 (5 Sep 2007 21:38:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 5 Sep 2007 21:38:28 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.6) Gecko/
20070725 Firefox/2.0.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 50g2000hsm.googlegroups.com; posting-host=63.228.106.49;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:953

Anyone have a scan [pdf or other] of a B&K 1460 OSCILLOSCOPE manual
they could send me?

Thank in advance,
Joseph




From 7158851694906217815
X-Google-Thread: fc2a5,983673e7e58448eb
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news-out.octanews.net!
```

```
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Need o-scope manual
Date: Wed, 05 Sep 2007 22:51:09 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.09.06.05.51.09.291554@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <1189028307.796630.74790@50g2000hsm.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 7
Organization: Octanews
NNTP-Posting-Date: 06 Sep 2007 00:51:22 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:954

Hi,

http://bama.edebris.com/manuals/b&k/1460/

Cheers,
--
Gregg



From -1237756056649378121
X-Google-Thread: fc2a5,cd2ac68d3245786c,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!w3g2000hsg.googlegroups.com!not-for-
mail
From:  eliminateenvy@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Why Many Hate Porn?
Date: Thu, 06 Sep 2007 03:14:19 -0700
Organization: http://groups.google.com
Lines: 95
Message-ID: <1189073659.527952.151340@w3g2000hsg.googlegroups.com>
NNTP-Posting-Host: 125.160.201.202
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1189073659 15303 127.0.0.1 (6 Sep 2007 10:14:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 6 Sep 2007 10:14:19 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: w3g2000hsg.googlegroups.com; posting-host=125.160.201.202;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:955
```

Human natures are fine tuned for gene pool survival.

The way we evolve in the gene pool is that when we're not at war, we're in a race.

Peace and freedom means competition. Some people are uncompetitive. So they don't want to compete. Those people demand slavery.More...

Those who demand slavery are not necessarily poorer or richer, superior or inferior. Those are people that somehow do not like competition.

The farm owning farmers in southern US, for example, do not want to compete with the higher salary the industrial north has, so they demand slavery. This happens despite the fact that the landlords are already way richer than their slaves.

Uncompetitive businesses also do not want customers to be free to choose the best products. They demand enslavements of consumers by restricting consumers choice to choose better products.

As time goes by and consensual productive means to aquire wealth become available, those who oppose competition tends to be the one inferior.

When we're not at war, we're in a race. So in a sense, some part of life is a zero-sum game. The happiness of some superior competitors correlate with gene pool survival of such people. This correlate with the extinction of inferior people and this make inferior people unhappy....page...

For example, women prefer rich smart males and normal males prefer as many females as possible. Actually poor males prefer more money rather than more women, but that's later.

If rich smart males get more females, then rich smart alpha males will survive better in the gene pool. That means, the other males do not get any. Hence, the lesser males will not be happy. They will then come up with monogamy to ration females in equal share for everyone.

Those who are uncompetitive are not going to say honestly that they are disgruntled competitors. They're going to come up with some religious unscientific fairy tales to come up with pretext that freedom, such as free sex is wrong.

In short, whenever someone is happy, whenever something gives pleasure, happiness, and money, you can count that someone, somewhere, somehow, will come up with some fairy tales of who knows what that somehow it's wrong, bad, and should be prohibited.

The preference to snuff of happiness earned by others are called envy. In a sense, those who want to be happy are meant to kill each other with those who are envious.

Unless those who run the fastest also hit the hardest, success is simply a bridge to a gas chamber. Deviation from free fair competition turns life into some form of gun fight.

Not everyone can be appeased in a gun fight. Envy is simply unappeasable. The way to keep pursuing our happiness and still be alive is either to kill, or threaten to kill, those who are envious of us that it's not to their best interests to kill or prosecute us....page...

That's why I strongly support death penalty. Without it, all succesful people will be slaughtered by bigots that don't mind going to jail for it.

It's also the same reason why many ugly women oppose porn. That's because those women are envy bigots.

Think of it this way. Pretty women can just show some skin and make millions of dollars. Ugly women has to sexually serve poor males and get knocked up for much less money.

If this keeps going, pretty women can pick the best males with the best genes and provide their sons with better education, opportunity, and more initial start up capital.

The pretty genes will survive better in the gene pool and the ugly will be outcompeted, like in Europe or Japan. All thanks to porn.

Obviously, pretty porn stars are way better of then ugly wife. Becoming a porn star or prostitute is then one of the best job ever in this world.

However, out of envy, ugly women will want to prevent that. What's their justification? By saying that all the good jobs are so bad that it can't possibly consensual, and hence has to be prohibited.

They said that porn should be prohibited to protect women. Which women? Not the consenting one of course. How in the earth people get protected from consensual offers anyway. It's there to protect disgruntled envy competitors.

From 7080654838904728710
X-Google-Thread: fc2a5,cd2ac68d3245786c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news1.google.com!news.glorb.com!lon-transit.news.telstra.net!lon-in.news.telstra.net!news.telstra.net!news-server.bigpond.net.au!53ab2750!not-for-mail
From: "P.Gregory" <hoonz@bigpond.com>
Newsgroups: rec.radio.amateur.homebrew

References: <1189073659.527952.151340@w3g2000hsg.googlegroups.com>
Subject: Re: Why Many Hate Porn?
Lines: 144
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <4QQDi.31906$4A1.2054@news-server.bigpond.net.au>
Date: Thu, 06 Sep 2007 10:42:08 GMT
NNTP-Posting-Host: 58.170.42.62
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1189075328 58.170.42.62 (Thu, 06 Sep 2007 20:42:08 EST)
NNTP-Posting-Date: Thu, 06 Sep 2007 20:42:08 EST
Organization: BigPond Internet Services
Xref: g2news2.google.com rec.radio.amateur.homebrew:956

A question answer thingy from the army psco-logical department?

<eliminateenvy@yahoo.com> wrote in message
news:1189073659.527952.151340@w3g2000hsg.googlegroups.com...
> Human natures are fine tuned for gene pool survival.
>
> The way we evolve in the gene pool is that when we're not at war,
> we're in a race.
i'm slow
>
> Peace and freedom means competition. Some people are uncompetitive. So
> they don't want to compete. Those people demand slavery.More...

with more free sex
>
> Those who demand slavery are not necessarily poorer or richer,
> superior or inferior. Those are people that somehow do not like
> competition.
to see how many times a female can come
>
> The farm owning farmers in southern US, for example, do not want to
> compete with the higher salary the industrial north has, so they
> demand slavery. This happens despite the fact that the landlords are
> already way richer than their slaves.

how olds the earth?
>
> Uncompetitive businesses also do not want customers to be free to
> choose the best products. They demand enslavements of consumers by
> restricting consumers choice to choose better products.

ditto
>
> As time goes by and consensual productive means to aquire wealth
> become available, those who oppose competition tends to be the one

> inferior.

ditto
>
> When we're not at war, we're in a race. So in a sense, some part of
> life is a zero-sum game. The happiness of some superior competitors
> correlate with gene pool survival of such people. This correlate with
> the extinction of inferior people and this make inferior people
> unhappy....page...

you seen some of those genes? yuk
>
> For example, women prefer rich smart males and normal males prefer as
> many females as possible. Actually poor males prefer more money rather
> than more women, but that's later.

of course to buy more women
>
> If rich smart males get more females, then rich smart alpha males will
> survive better in the gene pool. That means, the other males do not
> get any. Hence, the lesser males will not be happy. They will then
> come up with monogamy to ration females in equal share for everyone.

sup to women
>
> Those who are uncompetitive are not going to say honestly that they
> are disgruntled competitors. They're going to come up with some
> religious unscientific fairy tales to come up with pretext that
> freedom, such as free sex is wrong.

it is wrong if me do not get any
>
> In short, whenever someone is happy, whenever something gives
> pleasure, happiness, and money, you can count that someone, somewhere,
> somehow, will come up with some fairy tales of who knows what that
> somehow it's wrong, bad, and should be prohibited.

you missed sex
>
> The preference to snuff of happiness earned by others are called envy.
> In a sense, those who want to be happy are meant to kill each other
> with those who are envious.

Hitler was happy
>
> Unless those who run the fastest also hit the hardest, success is
> simply a bridge to a gas chamber. Deviation from free fair competition
> turns life into some form of gun fight.

free?
>
> Not everyone can be appeased in a gun fight. Envy is simply
> unappeasable. The way to keep pursuing our happiness and still be

> alive is either to kill, or threaten to kill, those who are envious of
> us that it's not to their best interests to kill or prosecute
> us....page...

also plenty of ammo needed
>
> That's why I strongly support death penalty. Without it, all succesful
> people will be slaughtered by bigots that don't mind going to jail for
> it.

you think gwb will get it?
>
> It's also the same reason why many ugly women oppose porn. That's
> because those women are envy bigots.

many also do not
>
> Think of it this way. Pretty women can just show some skin and make
> millions of dollars. Ugly women has to sexually serve poor males and
> get knocked up for much less money.

depends who or what is home , philton example
>
> If this keeps going, pretty women can pick the best males with the
> best genes and provide their sons with better education, opportunity,
> and more initial start up capital.

ditto
>
> The pretty genes will survive better in the gene pool and the ugly
> will be outcompeted, like in Europe or Japan. All thanks to porn.

me no get any
>
> Obviously, pretty porn stars are way better of then ugly wife.
> Becoming a porn star or prostitute is then one of the best job ever in
> this world.

wife is another type porn star most times
>
> However, out of envy, ugly women will want to prevent that. What's
> their justification? By saying that all the good jobs are so bad that
> it can't possibly consensual, and hence has to be prohibited.

not all uggs
>
> They said that porn should be prohibited to protect women. Which
> women? Not the consenting one of course. How in the earth people get
> protected from consensual offers anyway. It's there to protect
> disgruntled envy competitors.

agreeance yet can get dirty

```
>



From 7782614043365229629
X-Google-Thread: fc2a5,983673e7e58448eb
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feed.xsnews.nl!
border-1.ams.xsnews.nl!sn-xt-ams-06!sn-xt-ams-04!sn-ams!sn-feed-ams-02!sn-post-
ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need o-scope manual
Date: Thu, 06 Sep 2007 09:57:37 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13e0569t42cr113@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <1189028307.796630.74790@50g2000hsm.googlegroups.com>
<pan.2007.09.06.05.51.09.291554@localhost.localdomain>
In-Reply-To: <pan.2007.09.06.05.51.09.291554@localhost.localdomain>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 12
Xref: g2news2.google.com rec.radio.amateur.homebrew:957

geek wrote:

> Hi,
>
> http://bama.edebris.com/manuals/b&k/1460/
>

Just curious, why not 'bama.sbc.edu'?

Regards,

Michael


From 6655901494505291945
X-Google-Thread: fc2a5,f0768beb2500250f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 06 Sep 2007 10:59:50 -0500
```

Date: Thu, 06 Sep 2007 09:01:19 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Single Tube Modulator
References: <13dem6fl1r7ok85@corp.supernews.com>
In-Reply-To: <13dem6fl1r7ok85@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <2sCdnVCKbbxrvn3bnZ2dnUVZ_s2tnZ2d@web-ster.com>
Lines: 39
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-PVeBUe+CaOa/Wthq9Skt1zKkNGJ2bTj0ilcGbEZ1LHCb0z4l4OJRH9sfIxLE/
q5wRczjZm5zk0i3bkL!Eo70Lvi3EfN8wZpV82nvCz9emEvdJCcKdqyjBvfbUr+YA+
+n+d3+QV3GQBj8pqRqQX1eVwYD/HL8!NqE2KJoeMQiYGVna
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:958

Jack Schmidling wrote:
> Is it convenience or the laws of physics that modulators are always two
> tubes in push pull?
>
> I have an extra 811 and socket and was wondering if there is a way to
> use this to plate modulate my 811 cw transmitter.
>
> pics of 811 project at http://schmidling.com/radio.htm
>

With one audio amplifier tube you'll have to run in class A. A class A amplifier always has the same current flowing into it. With no audio applied all that power gets burned up in the tube; at maximum output (with a sine wave) 1/2 of the power goes to the output.

So the best audio power you'd get would be 1/2 the dissipation of the tube. IIRC an 811 is only good for 65 watts, so you're talking 32 watts of audio, which isn't much.

With two tubes in push-pull you can run class AB. A class AB amplifier has significantly less standing current, and consumes more as the power output goes up. Not only could you get significantly more sinusoidal power out of the amp without burning up the tubes, if you want to push things a little bit you can take advantage of the fact that the tubes will only dissipate heat when you're making noise. Taking that into account a pair of 811's will (IIRC -- check up on this) be good for something between 120 to 200 watts.

Or you can just run a PA amplifier from the Rat Shack into a step-up transformer...

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From -5728622287666169072
X-Google-Thread: fc2a5,f0768beb2500250f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!19g2000hsx.googlegroups.com!not-for-mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Single Tube Modulator
Date: Thu, 06 Sep 2007 11:28:30 -0700
Organization: http://groups.google.com
Lines: 58
Message-ID: <1189103310.592809.321110@19g2000hsx.googlegroups.com>
References: <13dem6fl1r7ok85@corp.supernews.com>
   <iuqed3po4fj91ihe0v1iqfkrbh9lrspl7t@4ax.com>
   <13des6db804rd6f@corp.supernews.com>
   <ZaLBi.63840$Xa3.15022@attbi_s22>
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Mime-Version: 1.0
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X-Trace: posting.google.com 1189103310 7424 127.0.0.1 (6 Sep 2007 18:28:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 6 Sep 2007 18:28:30 +0000 (UTC)
In-Reply-To: <1188577021.276710.184260@k79g2000hse.googlegroups.com>
User-Agent: G2/1.0
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Complaints-To: groups-abuse@google.com
Injection-Info: 19g2000hsx.googlegroups.com; posting-host=142.162.129.19;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:959

On Aug 31, 2:17 pm, K7ITM <k7...@msn.com> wrote:
> On Aug 30, 7:38 pm, "Harold E. Johnson" <W4...@mchsi.com> wrote:
>
>
>
>
>

> > "COLIN LAMB" <k...@teleport.com> wrote in message
>
> >news:13des6db804rd6f@corp.supernews.com...> Push-Pull allows you to run in other than class A, which is about 35%
> > > efficient. However, class A can result in very good audio.
>
> > > Some high end audio amplifiers are single ended class A. High power puts
> > > out a lot of heat.
>
> > > Colin K7FM
>
> > Back in the year one, Bill Orr, W6SAI, published an article (When QST was
> > still a technical magazine) on a single 304TL Heising modulator. I built one
> > to modulate a 4-400A.
>
> > Ran class A when you were talking to it, ran class C when you weren't.
> > Shifted the bias at a syllabic rate by rectifying a bit of the preamp audio
> > and applying it as forward bias when talking. Worked very well, quite
> > efficient, and the origin of EBC. The Electronic Bias Control bias shift
> > seen in 1970 and 80 Alpha RF Amplifiers to hold down plate dissipation for
> > class AB and B operation.
>
> > W4ZCB
>
> Which Year One was that, Harold? Where I became a ham many years
> back, there was a creative fellow in our club who designed a compact
> AM transmitter using a couple 6146s, one for the RF PA and one for the
> audio output. They were coupled not by a choke as in Heising, but by
> a common audio output transformer, available back then much more
> readily than a modulation transformer, and having the advantage that
> the DC in the center-tapped winding was (nearly) balanced, avoiding
> saturation effects in the transformer and allowing the use of a
> relatively small transformer. I think Mitch designed that thing in
> the mid 50's.
>
> Cheers,
> Tom- Hide quoted text -
>
> - Show quoted text -

I understand that the answer to the basic question is 'no'; not
necessarily push pull for an audio modulator. Just a big hefty audio
amp and some means of plate modulating the RF PA! There are other
methods of AM modulation etc.

BTW the 6146 design above sounds ingenious; have a mental picture of
the total DC plate currents divided in opposite directions one for the
RF tube and the other for the modulator tube. Then I suppose the
modulator tube as it received audio, varied the plate voltage/current
of the RF tube thus modulating it. A sort of variation of Heising
(choke) modulation? Interesting.

```
From -8911170531536167805
X-Google-Thread: fc2a5,f0768beb2500250f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r34g2000hsd.googlegroups.com!not-for-
mail
From:  terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Single Tube Modulator
Date: Thu, 06 Sep 2007 11:30:23 -0700
Organization: http://groups.google.com
Lines: 27
Message-ID: <1189103423.440211.301370@r34g2000hsd.googlegroups.com>
References: <13dem6fl1r7ok85@corp.supernews.com>
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X-Trace: posting.google.com 1189103423 13509 127.0.0.1 (6 Sep 2007 18:30:23 GMT)
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NNTP-Posting-Date: Thu, 6 Sep 2007 18:30:23 +0000 (UTC)
In-Reply-To: <idetd39oida7k7gjvv7dt53jq845csee84@4ax.com>
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2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: r34g2000hsd.googlegroups.com; posting-host=142.162.129.19;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:960

On Sep 5, 12:24 pm, John Ferrell <johnferr...@sprintmail.com> wrote:
> On Thu, 30 Aug 2007 17:54:46 -0600, Jack Schmidling <a...@mc.net>
> wrote:
>
> >Is it convenience or the laws of physics that modulators are always two
> >tubes in push pull?
>
> >I have an extra 811 and socket and was wondering if there is a way to
> >use this to plate modulate my 811 cw transmitter.
>
> >pics of 811 project athttp://schmidling.com/radio.htm
>
> >js
>
> Finding a plate modulation transformer may be the hardest part. They
> have always been expensive.
>
> Cathode modulation is my next choice with grid modulation as a last
> resort.
>
> John Ferrell W8CCW
> "Life is easier if you learn to
```

> plow around the stumps"

Screen grid modualtion it it was a tetrode PA! But the 811 is a triode
I think?

From -29262815788333212
X-Google-Thread: fc2a5,983673e7e58448eb
X-Google-Attributes: gidfc2a5,public,usenet
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From: telcodev <telcodev@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need o-scope manual
Date: Thu, 06 Sep 2007 18:33:57 -0000
Organization: http://groups.google.com
Lines: 12
Message-ID: <1189103637.425802.283240@r29g2000hsg.googlegroups.com>
References: <1189028307.796630.74790@50g2000hsm.googlegroups.com>
   <pan.2007.09.06.05.51.09.291554@localhost.localdomain>
NNTP-Posting-Host: 63.228.106.49
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1189103638 14081 127.0.0.1 (6 Sep 2007 18:33:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 6 Sep 2007 18:33:58 +0000 (UTC)
In-Reply-To: <pan.2007.09.06.05.51.09.291554@localhost.localdomain>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: r29g2000hsg.googlegroups.com; posting-host=63.228.106.49;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:961

Thank you!

On Sep 5, 10:51 pm, geek <g...@localhost.localdomain> wrote:
> Hi,
>
> http://bama.edebris.com/manuals/b&k/1460/
>
> Cheers,
> __
> Gregg

From 2636314778035711101
X-Google-Thread: fc2a5,983673e7e58448eb

```
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 06 Sep 2007 17:49:20 -0500
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1189028307.796630.74790@50g2000hsm.googlegroups.com>
<pan.2007.09.06.05.51.09.291554@localhost.localdomain>
<13e0569t42cr113@corp.supernews.com>
Subject: Re: Need o-scope manual
Date: Thu, 6 Sep 2007 18:49:20 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <zYCdnQq7DKRtHn3bnZ2dnUVZ_hKdnZ2d@comcast.com>
Lines: 27
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.199.254.204
X-Trace: sv3-mrRUHvpXnN7ZptEzNZR280JHnoPKQyv7M/03jx/
RZ2Pv9YwxPhhdedNsGTu39Evt+evm9RmLSEKw+7i!eLWLZ2qbK/
+jUH56DXAYu345sEnlj+xPKXZBmrDMkiwP4tujbOZ1DafbaUZ+isC47HBaGo8F7zN2!
5mh2+m1havMOeFT0KNvyRARGzqOapA4=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:962

"msg" <msg@_cybertheque.org_> wrote in message
news:13e0569t42cr113@corp.supernews.com...
> geek wrote:
>
>> Hi,
>>
>> http://bama.edebris.com/manuals/b&k/1460/
>>
>
> Just curious, why not 'bama.sbc.edu'?
>
> Regards,
>
> Michael

'bama.sbc.edu' has limited bandwidth and limited number of simultaneous
connections.  edebris is a mirror of BAMA with much higher bandwidth and no
limit on connections.
--
```

Dave M
MasonDG44 at comcast dot net (Just substitute the appropriate characters in the address)

"In theory, there isn't any difference between theory and practice. In practice, there is." - Yogi Berra

From -3324561390489934166
X-Google-Thread: fc2a5,e6b6b070bf313b0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny07.POSTED!e347066c!not-for-mail
From: "KB3IBT Dan K" <dankal@email.com>
Newsgroups: rec.radio.amateur.homebrew
References: <6vNvi.1387$hK5.1064@trndny02> <6fednYm-r831llrbnZ2dnUVZ_u2mnZ2d@comcast.com>
Subject: Re: TS-530s Finals neutralization
Lines: 26
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <H91Ei.10085$5x2.1366@trndny07>
Date: Fri, 07 Sep 2007 00:44:23 GMT
NNTP-Posting-Host: 72.81.71.45
X-Complaints-To: abuse@verizon.net
X-Trace: trndny07 1189125863 72.81.71.45 (Thu, 06 Sep 2007 20:44:23 EDT)
NNTP-Posting-Date: Thu, 06 Sep 2007 20:44:23 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:963
X-Original-Bytes: 1757

Hey,
Thanks for the link to Kens web site! It's a valuable resource.
And thanks for all the replies and comment on the TS-530...Still haven't fired it up. Ive been busy with work and my dad visiting from Florida. Man, i can't waite to get it going again...those Kenwood hybrids are great!

"gb" <w9nogbspam@arrlspamno.net> wrote in message news:6fednYm-r831llrbnZ2dnUVZ_u2mnZ2d@comcast.com...
> "KB3IBT Dan K" <dankal@email.com> wrote in message
> news:6vNvi.1387$hK5.1064@trndny02...
>> Hello All,
>> I was told by a ham during a QSO that if I buy a matched pair of 6146b's,
>> I would not need to neutralize them?? Is that true?
>>

```
>> Thanks KB3IBT
>>
> IBT -
>
> Quit relying upon nonsense QSO tech advice -- go to Ken's (K4EAA) web
> site -- and get your FAQ answers about Kenwood Hybrids.
> http://www.k4eaa.com/
>




From 2355505033675397 69
X-Google-Thread: fc2a5,983673e7e58448eb
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Need o-scope manual
Date: Thu, 06 Sep 2007 17:46:54 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.09.07.00.46.54.733640@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <1189028307.796630.74790@50g2000hsm.googlegroups.com>
<pan.2007.09.06.05.51.09.291554@localhost.localdomain>
<1189103637.425802.283240@r29g2000hsg.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 15
Organization: Octanews
NNTP-Posting-Date: 06 Sep 2007 19:47:08 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:964

On Thu, 06 Sep 2007 18:33:57 +0000, telcodev wrote:

> Thank you!

You're welcome!

Great little scope, isn't it? Have one here that I just re-capped the
supply and keep for my B.U.

I currently use the 1470 dual trace version.

Cheers,
--
Gregg
```

```
From -2815006646591878709
X-Google-Thread: fc2a5,46552920e07dcc86,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!
trndny01.POSTED!e347066c!not-for-mail
From: "KB3IBT Dan K" <dankal@email.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Finals Neutralization
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <y_8Ei.6108$tY2.3026@trndny01>
Date: Fri, 07 Sep 2007 09:38:38 GMT
NNTP-Posting-Host: 72.81.71.45
X-Complaints-To: abuse@verizon.net
X-Trace: trndny01 1189157918 72.81.71.45 (Fri, 07 Sep 2007 05:38:38 EDT)
NNTP-Posting-Date: Fri, 07 Sep 2007 05:38:38 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:965
```

Hey,
Thanks for the link to Kens web site! It's a valuable resource.
And thanks for all the replies and comment on the TS-530...Still haven't
fired it up. Ive been busy with work and my dad visiting from Florida. Man,
i can't waite to get it going again...those Kenwood hybrids are great!

```
From 5254701960337870886
X-Google-Thread: fc2a5,d93e98bac998aa89,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!wn14feed!
worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: ADDITIONAL TUBES + STUFF
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <kayEi.77598$ax1.67789@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: f459f9080410e9fa834a8e1aa7bca485
X-Complaints-To: abuse@worldnet.att.net
```

X-Trace: bgtnsc05-news.ops.worldnet.att.net 1189261072
f459f9080410e9fa834a8e1aa7bca485 (Sat, 08 Sep 2007 14:17:52 GMT)
NNTP-Posting-Date: Sat, 08 Sep 2007 14:17:52 GMT
Organization: AT&T Worldnet
Date: Sat, 08 Sep 2007 14:17:52 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:966

Tubes on now: 6U8A, 6JB6, 7059, 80, 6H6, 12BY7A ,MOST ALL NOS + BLILEY
XTALS

COMING LATER TODAY:

6AK5, 6BN8, 6AV6, 6BL8, 6GH8A, 6BJ8, 6BZ6, 6BQ5, 2D21, 2033, 5726 - ALL
NOS

NRI TEST PLATFORM

MO STUFF; SEE AT :
http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

Tnx, 73 --Heytubeguy

From -8187672526190380532
X-Google-Thread: fc2a5,d93e98bac998aa89
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: FA: ADDITIONAL TUBES + STUFF
Date: Sat, 08 Sep 2007 20:53:00 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.09.09.03.53.00.876304@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <kayEi.77598$ax1.67789@bgtnsc05-news.ops.worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 10
Organization: Octanews
NNTP-Posting-Date: 08 Sep 2007 22:53:18 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:967

Hi,

You might want to double check your listings.... 1/2 is to US only and 1/2
to worldwide.

Given I've bought from you before, I know you ship to Canada ;-)

Cheers,

--
Gregg

From -5472630597221151184
X-Google-Thread: fc2a5,ffdc64fb72c62959,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 09 Sep 2007 09:48:17 -0500
Date: Sun, 09 Sep 2007 09:48:24 -0500
From: Henry <wa0goz@arrl.net>
Reply-To: wa0goz@arrl.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.8) Gecko/
20050511 Mnenhy/0.7.2.0
X-Accept-Language: en-us
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Antenna for PCI wireless card
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000773-3, 09/08/2007), Outbound message
X-Antivirus-Status: Clean
Message-ID: <qoWdnebQ_68smnnbnZ2dnUVZ_saknZ2d@comcast.com>
Lines: 10
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.118.236.147
X-Trace: sv3-V7PF/X/
pHZhU2ag54YS6b0xBUYlL5GqD4TTcNv+CKZ+ypy1oJLYEbzE3rAeZMEVQof1JI4mXdRrLs9d!
JmodesvMgallMVynVFBx4Soo3EC/qlQpAEYpmgc8qRZueHnzIDNJeDobNSGpwvODsFBObkYMCcC5!
VVbvUOPfT/udfa9zDTa7OSWjPvPdxUc=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:968

I am in need of a rubber ducky antenna for a PCI wireless card. It's
the one with the reverse SMA connector.

If anyone on the list has an extra rubber ducky PCI wireless antenna
with a R-SMA connector, please contact me off list and we can make
arrangements for me to get it.

Thanks for the bandwidth.

Henry WA0GOZ

```
From 2123964224695150167
X-Google-Thread: fc2a5,ffdc64fb72c62959
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Antenna for PCI wireless card
Date: Mon, 10 Sep 2007 01:05:26 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.09.10.08.05.26.554941@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <qoWdnebQ_68smnnbnZ2dnUVZ_saknZ2d@comcast.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 9
Organization: Octanews
NNTP-Posting-Date: 10 Sep 2007 03:05:46 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:969

Hi,

If no one here has them, I've seen them in the Digi-Key catalog.

http://www.digikey.com

Cheers!
--
Gregg
```

```
From -3646087901323739896
X-Google-Thread: fc2a5,a2eec9bb6a24a9df
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r29g2000hsg.googlegroups.com!not-for-
mail
From:  spamhog@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF finals from PC monitor boards?
Date: Mon, 10 Sep 2007 12:34:45 -0700
Organization: http://groups.google.com
Lines: 38
Message-ID: <1189452885.378355.172450@r29g2000hsg.googlegroups.com>
References: <1185730502.849368.23240@q75g2000hsh.googlegroups.com>
   <46acff24$0$21204$5fc30a8@news.tiscali.it>
   <1185812712.061221.147980@q75g2000hsh.googlegroups.com>
   <13asq0jr2914k7f@corp.supernews.com>
NNTP-Posting-Host: 85.20.122.14
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1189452886 10792 127.0.0.1 (10 Sep 2007 19:34:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 10 Sep 2007 19:34:46 +0000 (UTC)
In-Reply-To: <13asq0jr2914k7f@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.23 (Windows NT 5.1; U; en),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: r29g2000hsg.googlegroups.com; posting-host=85.20.122.14;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:970
```

I already found something, thinking a bit sideways: these SS devices impressed me more on the current- than on the voltage handling side. I reckoned that scaling to higher powers was mostly done in current, so I headed for a low power video unit I had: a long deceased bible-sized 1970's TV + radio combo, with a 2" B/W screen. As suspected, I found 2-3W low capacitance bipolars that could run into VHF... so much so I had to bead them to keep them from producing spurs in my ugly prototype.

On Jul 30, 11:37 pm, Chris Jones <lugnut...@nospam.yahoo.com> wrote:

> 2SB772 (PNP) and 2SD882 (NPN) (10-Watt 30V, 3A, fT>80MHz)

> The video amplifiers in a monitor have to be pretty fast for high resolution
> signals, and often these are discrete transistors to handle the power. I
> got some 2SC2682 devices out of monitors - 180V, 3.2pF, fT=200MHz, 10W - a
> few of these could make a useful amount of RF, I reckon.

Hmmmm.... I'll look harder. The pile of monitors is still there gracing a hidden nook of my place.

W.r.t. the high definition requiring high frequency: KVM switches often quote their bandwidth, which must match what^s required from a given definition (if a KVM only quotes that, and not pixels, good luck finding the equivalents). Bandwidths now run in the 200-300MHz range, which is a good omen.

Where would such transistors be?

In the vicinity of the HV coil?

Or near the CRT cathode?

```
From -6890047481198597781
X-Google-Thread: fc2a5,a2eec9bb6a24a9df
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r29g2000hsg.googlegroups.com!not-for-
mail
From:  spamhog@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF finals from PC monitor boards?
Date: Mon, 10 Sep 2007 12:42:05 -0700
Organization: http://groups.google.com
Lines: 5
Message-ID: <1189453325.381686.206850@r29g2000hsg.googlegroups.com>
References: <1185730502.849368.23240@q75g2000hsh.googlegroups.com>
   <46acff24$0$21204$5fc30a8@news.tiscali.it>
   <1185812712.061221.147980@q75g2000hsh.googlegroups.com>
   <13asq0jr2914k7f@corp.supernews.com>
NNTP-Posting-Host: 85.20.122.14
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1189453326 9195 127.0.0.1 (10 Sep 2007 19:42:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 10 Sep 2007 19:42:06 +0000 (UTC)
In-Reply-To: <13asq0jr2914k7f@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.23 (Windows NT 5.1; U; en),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: r29g2000hsg.googlegroups.com; posting-host=85.20.122.14;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:971
```

On Jul 30, 11:37 pm, Chris Jones <lugnut...@nospam.yahoo.com> wrote:

....   I forgot.....   Thank you Chris!

```
From -7166166434792179362
X-Google-Thread: fc2a5,a2eec9bb6a24a9df
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!50g2000hsm.googlegroups.com!not-for-
mail
From:  K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF finals from PC monitor boards?
Date: Mon, 10 Sep 2007 18:25:32 -0700
Organization: http://groups.google.com
Lines: 45
Message-ID: <1189473932.655775.85210@50g2000hsm.googlegroups.com>
References: <1185730502.849368.23240@q75g2000hsh.googlegroups.com>
   <nnsri.23$1T2.2@newsfe04.lga>
```

```
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1189473932 13076 127.0.0.1 (11 Sep 2007 01:25:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 11 Sep 2007 01:25:32 +0000 (UTC)
In-Reply-To: <nnsri.23$1T2.2@newsfe04.lga>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.6)
Gecko/20070725 Firefox/2.0.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 50g2000hsm.googlegroups.com; posting-host=192.25.240.225;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:972

On Jul 30, 2:04 pm, "xpyttl" <xpyttl_NOS...@earthling.net> wrote:
> A few years ago at FDIM, George Dobbs did a presentation about some guy
> whose main interest in the hobby was making complete rigs from PC monitors.
> He strenuously avoided using any parts that couldn't be scavenged from a
> monitor, so obviously, his designs were a little unusual. Getting in contact
> with George if you're not in the UK can be an exercise in frustration, and I
> don't recall the call of the guy he was talking about, or even the country,
> for that matter (I think it's the brains leaking out that's turning my hair
> gray).
>
> I think it would have been in the 2005 FDIM proceedings, possibly 2003, but
> I think 2005.
>
> ..
>
> <spam...@gmail.com> wrote in message
>
> news:1185730502.849368.23240@q75g2000hsh.googlegroups.com...
>
> > In the vacuum tube world,
> > several types of TV line finals
> > are reused as HF PA FINALS.
>
> > -       WHAT ABOUT CRT-TYPE PC MONITORS?       -
>
> > Are there solid state components there
> > that could do say 5 to 30W (in) at HF?
>
> > Any other components
> > that would fit well
> > in a basic CW TX?
>
> > I'd be moderately surprised if that were not the case!
>
> > Hints, anyone?
>
> > Filippo
> > N1JPR/I2
```

I'm not sure why it should be so difficult to get ahold of Rev. Dobbs. Visit http://www.staidan.org.uk and follow the obvious link...

Cheers,
Tom

```
From -7268867766861110381
X-Google-Thread: fc2a5,20d766c55b472ef0,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!w3g2000hsg.googlegroups.com!not-for-
mail
From:  spamhog@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: QRP:  broadband HF driver & PA - hints?
Date: Tue, 11 Sep 2007 10:31:48 -0000
Organization: http://groups.google.com
Lines: 37
Message-ID: <1189506708.170188.131720@w3g2000hsg.googlegroups.com>
NNTP-Posting-Host: 85.20.123.223
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1189506708 21925 127.0.0.1 (11 Sep 2007 10:31:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 11 Sep 2007 10:31:48 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.23 (Windows NT 5.1; U; en),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: w3g2000hsg.googlegroups.com; posting-host=85.20.123.223;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:973
```

I would like to make a flexible CW TX with a broad coverage of HF, something like:

```
VXO or                  BB                                BB POWER
AMP              TUNABLE BPF
VFO          ===>    DRIVER            ===>    (2-5W, derated)
===>  PLUGIN LPFs
(50-100 mW)          AMP (.5 to 1W)             RF
TRANSFORMER           R/T SWITCHING
```

I'd like the driver-PA chain to be no-tune and unflappably stable over, say, 7-15 or 3-30 MHz, with 50 ohm I/O. I guess the driver stage(s) need not be nondistorting, as a C class PA will produce much in the way of harmonics to be accurately filtered out, but it would be nice-to-have. I don't know if a more linear power amp would help, but I'm willing to use large a derated final and go balanced and/or class A, with negative feedback, if it helps stability and bandwidth. That would help spectral purity too, but I see it as a side effect not to be relied on too much.

I looked around, found plenty of professional ready made gear, but not much in the way of tips.

I'd be tempted to start as with two low-distortion audio-like stages with negative feedback and broad bandwidth-limiting, such as small caps to ground, and large coupling caps + VHF beads in the signal paths, but it would be trial and error.

Any suggestions on where I should have looked???

tx es 73 de n1jpr/i2

From -826827967837006629
X-Google-Thread: fc2a5,20d766c55b472ef0
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!g4g2000hsf.googlegroups.com!not-for-mail
From: spamhog@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: QRP: broadband HF driver & PA - hints?
Date: Tue, 11 Sep 2007 10:42:52 -0000
Organization: http://groups.google.com
Lines: 24
Message-ID: <1189507372.978748.203020@g4g2000hsf.googlegroups.com>
References: <1189506708.170188.131720@w3g2000hsg.googlegroups.com>
NNTP-Posting-Host: 85.20.123.223
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1189507373 24063 127.0.0.1 (11 Sep 2007 10:42:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 11 Sep 2007 10:42:53 +0000 (UTC)
In-Reply-To: <1189506708.170188.131720@w3g2000hsg.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.23 (Windows NT 5.1; U; en),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=85.20.123.223;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:974

Ooops! I see lines were cut short. I meant this:

```
VXO, VFO, DDS.... (50-100mW)
(interchangeable alternatives)
             =A6=A6
             =A6=A6
             =A6=A6
BROADBAND DRIVER (.5-1W)
             =A6=A6
             =A6=A6
             =A6=A6
BROADBAND PA (2-5 W, highly derated devices)
Z-MATCHING RF TRANSFORMER
             =A6=A6
             =A6=A6
             =A6=A6
SWITCHING    =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D> RX
TUNABLE BPF
PLUG-IN LPFs
             =A6=A6
             =A6=A6
       ANTENNA
```

From 4660661575214676215
X-Google-Thread: fc2a5,20d766c55b472ef0
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!eweka.nl!lightspeed.eweka.nl!
newsfeeder.wxs.nl!kramikske.telenet-ops.be!nntp.telenet.be!kwabbernoot.telenet-ops.be!phobos.telenet-ops.be.POSTED!not-for-mail
From: "Philo" <philo@nospampse.be>
Newsgroups: rec.radio.amateur.homebrew
References: <1189506708.170188.131720@w3g2000hsg.googlegroups.com>
<1189507372.978748.203020@g4g2000hsf.googlegroups.com>
Subject: Re: QRP: broadband HF driver & PA - hints?
Lines: 32
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <kzCFi.100368$Kk.4647161@phobos.telenet-ops.be>
Date: Tue, 11 Sep 2007 20:06:40 GMT
NNTP-Posting-Host: 78.21.15.183
X-Complaints-To: abuse@telenet.be
X-Trace: phobos.telenet-ops.be 1189541200 78.21.15.183 (Tue, 11 Sep 2007 22:06:40
MEST)
NNTP-Posting-Date: Tue, 11 Sep 2007 22:06:40 MEST
Organization: Telenet Internet
Xref: g2news2.google.com rec.radio.amateur.homebrew:975

<spamhog@gmail.com> wrote in message
news:1189507372.978748.203020@g4g2000hsf.googlegroups.com...

Ooops! I see lines were cut short. I meant this:

```
VXO, VFO, DDS.... (50-100mW)
(interchangeable alternatives)
             ��
             ��
             ��
BROADBAND DRIVER (.5-1W)
             ��
             ��
             ��
BROADBAND PA (2-5 W, highly derated devices)
Z-MATCHING RF TRANSFORMER
             ��
             ��
             ��
SWITCHING    =================> RX
TUNABLE BPF
PLUG-IN LPFs
             ��
             ��
       ANTENNA
```

I sincerely think you would have a lot more fun trying to clone a HW8.

There is no need to pursue much linearity in a cw transmitter ... unless you try to build an almost unpractical one.

From -3607039237492330073
X-Google-Thread: fc2a5,a2eec9bb6a24a9df
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news.cs.univ-paris8.fr!newsfeed.vmunix.org!peer-uk.news.demon.net!kibo.news.demon.net!mutlu.news.demon.net!news.demon.co.uk!demon!clintsmc.demon.co.uk!clint
From: Clint Sharp <clint@clintsmc.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF finals from PC monitor boards?
Date: Tue, 11 Sep 2007 17:48:21 +0100
Organization: Little
Lines: 13
Message-ID: <boZOO1CVbs5GFwL0@clintsmc.demon.co.uk>
References: <1185730502.849368.23240@q75g2000hsh.googlegroups.com>
 <nnsri.23$1T2.2@newsfe04.lga>
 <1189473932.655775.85210@50g2000hsm.googlegroups.com>
NNTP-Posting-Host: clintsmc.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1189556854 18476 62.49.16.63 (12 Sep 2007 00:27:34 GMT)

```
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Wed, 12 Sep 2007 00:27:34 +0000 (UTC)
User-Agent: Turnpike/6.05-S (<6jxL$1+bcvb30K87bF$LbGJ$iJ>)
Xref: g2news2.google.com rec.radio.amateur.homebrew:976

In message <1189473932.655775.85210@50g2000hsm.googlegroups.com>, K7ITM
<k7itm@msn.com> writes
>I'm not sure why it should be so difficult to get ahold of Rev.
>Dobbs.  Visit http://www.staidan.org.uk and follow the obvious link...
Well I'll be.. I've been reading (and admiring) his stuff for years and
never knew he was only 20 miles away! Live and learn.
>
>Cheers,
>Tom
>

--
Clint Sharp



From 5778715059680802231
X-Google-Thread: fc2a5,e7dfd2f71c782c00,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!50g2000hsm.googlegroups.com!not-for-
mail
From:  Harry7 <cpa599@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HF Amplifier
Date: Wed, 12 Sep 2007 00:40:08 -0000
Organization: http://groups.google.com
Lines: 3
Message-ID: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
NNTP-Posting-Host: 66.231.37.178
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1189557608 23201 127.0.0.1 (12 Sep 2007 00:40:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 12 Sep 2007 00:40:08 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 50g2000hsm.googlegroups.com; posting-host=66.231.37.178;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:977

Can anyone point me to plans for a solid state HF (1.8 - 30 mc) Amp 10
- 15 watts drive 300-1000 watts out.



From 8896653409306990686
```

```
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-
mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
Subject: Re: HF Amplifier
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <CFGFi.97362$Fc.8271@attbi_s21>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1189557986 12.219.135.201 (Wed, 12 Sep 2007 00:46:26 GMT)
NNTP-Posting-Date: Wed, 12 Sep 2007 00:46:26 GMT
Organization: AT&T ASP.att.net
Date: Wed, 12 Sep 2007 00:46:26 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:978


"Harry7" <cpa599@gmail.com> wrote in message
news:1189557608.222882.157530@50g2000hsm.googlegroups.com...
> Can anyone point me to plans for a solid state HF (1.8 - 30 mc) Amp 10
> - 15 watts drive 300-1000 watts out.
>

Motorola DL110/ Revision 3
RF Device Data Volume II

W4ZCB




From 3615530456830112739
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!sn-xt-sjc-04!sn-xt-
sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF Amplifier
Date: Tue, 11 Sep 2007 18:25:46 -0700
Organization: Home for Obscure Mythical Beings
Message-ID: <qprjr4-ogq.ln1@radagast.org>
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
```

X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
X-Complaints-To: abuse@supernews.com
Lines: 27
Xref: g2news2.google.com rec.radio.amateur.homebrew:979

>Can anyone point me to plans for a solid state HF (1.8 - 30 mc) Amp 10
>- 15 watts drive 300-1000 watts out.

Take a look at the various designs offered by Communications Concepts:

http://www.communication-concepts.com/tableofcontents.htm

They have a range of amplifiers which are based on designs originally published in Motorola application notes. (All of their amps are described as starting at 2 MHz... you'll need to check to make sure they'll actually work properly at 1.8 MHz)

The winner of one local ham club's "Homebrew Night" competition last year, was a guy who built four boards of one of these designs (I think he used the EB104), and then used a set of RF splitters/combiners (similar to the PSC-4) to gang them together. If I recall correctly, the resulting amplifier was capable of running at the 1500-watt legal limit with a fair bit of capacity to spare.

A single EB104 might meet your requirements... 6 watts in, 600 watts out.

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

From 8888566504775137202
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!57g2000hsv.googlegroups.com!not-for-mail
From: Harry7 <cpa599@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF Amplifier
Date: Wed, 12 Sep 2007 12:32:33 -0000
Organization: http://groups.google.com
Lines: 42
Message-ID: <1189600353.832027.196390@57g2000hsv.googlegroups.com>
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
<qprjr4-ogq.ln1@radagast.org>
NNTP-Posting-Host: 66.231.37.178
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

X-Trace: posting.google.com 1189600354 28980 127.0.0.1 (12 Sep 2007 12:32:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 12 Sep 2007 12:32:34 +0000 (UTC)
In-Reply-To: <qprjr4-ogq.ln1@radagast.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 57g2000hsv.googlegroups.com; posting-host=66.231.37.178;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:980

Yes, the EB104 should do it.

Thank you.

Terry
W8EJO

On Sep 11, 9:25 pm, dpl...@radagast.org (Dave Platt) wrote:
> >Can anyone point me to plans for a solid state HF (1.8 - 30 mc) Amp 10
> >- 15 watts drive 300-1000 watts out.
>
> Take a look at the various designs offered by Communications Concepts:
>
> http://www.communication-concepts.com/tableofcontents.htm
>
> They have a range of amplifiers which are based on designs originally
> published in Motorola application notes. (All of their amps are
> described as starting at 2 MHz... you'll need to check to make sure
> they'll actually work properly at 1.8 MHz)
>
> The winner of one local ham club's "Homebrew Night" competition last
> year, was a guy who built four boards of one of these designs (I think
> he used the EB104), and then used a set of RF splitters/combiners
> (similar to the PSC-4) to gang them together. If I recall correctly,
> the resulting amplifier was capable of running at the 1500-watt legal
> limit with a fair bit of capacity to spare.
>
> A single EB104 might meet your requirements... 6 watts in, 600 watts
> out.
>
> --
> Dave Platt <dpl...@radagast.org>   AE6EO
> Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
>   I do _not_ wish to receive unsolicited commercial email, and I will
>   boycott any company which has the gall to send me such ads!

```
From 2575079190955133269
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!57g2000hsv.googlegroups.com!not-for-
mail
From:  Harry7 <cpa599@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF Amplifier
Date: Wed, 12 Sep 2007 12:49:36 -0000
Organization: http://groups.google.com
Lines: 35
Message-ID: <1189601376.355054.281070@57g2000hsv.googlegroups.com>
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
   <qprjr4-ogq.ln1@radagast.org>
NNTP-Posting-Host: 66.231.37.178
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1189601376 32101 127.0.0.1 (12 Sep 2007 12:49:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 12 Sep 2007 12:49:36 +0000 (UTC)
In-Reply-To: <qprjr4-ogq.ln1@radagast.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 57g2000hsv.googlegroups.com; posting-host=66.231.37.178;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:981
```

The low pass filters on the Communications Concepts site are rated for a maximum power of 300 watts. Where can I find low pass filters rated for 600 watts (or more)?

On Sep 11, 9:25 pm, dpl...@radagast.org (Dave Platt) wrote:

> >Can anyone point me to plans for a solid state HF (1.8 - 30 mc) Amp 10
> >- 15 watts drive 300-1000 watts out.
>
> Take a look at the various designs offered by Communications Concepts:
>
> http://www.communication-concepts.com/tableofcontents.htm
>
> They have a range of amplifiers which are based on designs originally
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> described as starting at 2 MHz... you'll need to check to make sure
> they'll actually work properly at 1.8 MHz)
>
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> year, was a guy who built four boards of one of these designs (I think

```
> he used the EB104), and then used a set of RF splitters/combiners
> (similar to the PSC-4) to gang them together.  If I recall correctly,
> the resulting amplifier was capable of running at the 1500-watt legal
> limit with a fair bit of capacity to spare.
>
> A single EB104 might meet your requirements... 6 watts in, 600 watts
> out.
>
> --
> Dave Platt <dpl...@radagast.org>                                  AE6EO
> Friends of Jade Warrior home page:  http://www.radagast.org/jade-warrior
>   I do _not_ wish to receive unsolicited commercial email, and I will
>      boycott any company which has the gall to send me such ads!




From 5607519911278468247
X-Google-Thread: 1109af,d5b3a9a46d4c4a6f,start
X-Google-Thread: 107ada,d5b3a9a46d4c4a6f,start
X-Google-Thread: 107cee,d5b3a9a46d4c4a6f,start
X-Google-Thread: f4e7d,d5b3a9a46d4c4a6f,start
X-Google-Thread: 1130cb,d5b3a9a46d4c4a6f,start
X-Google-Thread: fc2a5,d5b3a9a46d4c4a6f,start
X-Google-Thread: fc8b1,d5b3a9a46d4c4a6f,start
X-Google-Thread: 10b9c8,d5b3a9a46d4c4a6f,start
X-Google-Attributes:
gid1109af,gid107ada,gid107cee,gidf4e7d,gid1130cb,gidfc2a5,gidfc8b1,gid10b9c8,publi
c,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!bloom-
beacon.mit.edu!senator-bedfellow.mit.edu!dreaderd!not-for-mail
Newsgroups:
rec.radio.swap,rec.radio.amateur.misc,sci.electronics.misc,ne.forsale,ne.general,r
ec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.info
Subject: ** FLEA at MIT **     Sunday September 16th   Cambridge MA
Summary: Buy Sell SWAP Ham Radio  Electronics Computers 9AM - 2PM
Expires: 9/21/07
Followup-To: poster
Approved: rec-radio-info@panix.com
Distribution: na
Organization: Massachvsetts Institvte of Technology
Keywords: Hamfest Fleamarket SWAPFEST  Computers Ham Radio Electronics
From: w1gsl@mit.edu (Steven L. Finberg)
Date: 12 Sep 2007 13:48:40 GMT
Lines: 133
Message-ID: <46e7ee38$0$490$b45e6eb0@senator-bedfellow.mit.edu>
NNTP-Posting-Host: DEPARTMENT-OF-ALCHEMY.MIT.EDU
X-Trace: 1189604920 senator-bedfellow.mit.edu 490 18.7.18.68
Xref: g2news2.google.com rec.radio.swap:1162 rec.radio.amateur.misc:1888
sci.electronics.misc:1514 ne.forsale:120 ne.general:646
rec.radio.amateur.homebrew:982 rec.radio.amateur.boatanchors:1082
rec.radio.info:240
```

This comming Sunday...

+++ Now even more Buyers Parking !!!
Thanks to Shire we have use of their new parking lot across Albany St from the SWAPFEST !!!

!! ** More Buyers PARKING is available ** for details see
http://web.mit.edu/w1gsl/Public/flyer

*** !!!! In our Traditional GARAGE and the adjacent lot !!!! ****
so come rain or shine or super heat the Flea is on !!!

********* $1 buyers discount with hardcopy of this notice ********

COMPUTERS - ELECTRONICS - HAM RADIO - COMPUTERS - ELECTRONICS - HAM RADIO

FLEA all SUMMER at MIT
Sunday September 16th 2007
9AM-2PM

Come to the city for a great flea - plenty of free parking.

MIT's electronics and ham radio flea will take place on the third Sunday of each month this summer, April thru October.

There is tailgate space for over 600 sellers and free, off-street parking for >2000 cars!

Buyers admission is $5 (you get $1 off if you're lucky enough to have a copy of our ad) and sellers spaces are $20 for the first and $15 for each additional at the gate.

The flea will be held at the corner of Albany and Main streets in Cambridge; right in the Kendall Square area from 9AM to 2PM, with sellers set-up time starting at 7AM.

SEASON PASS + Advance Seller Discount

A sellers discount season pass is available which offers a 30% discount. By prepaying you get a discount and earlier admission. See the registration form.

*** Attention Sellers ***
Prepaid vendors.. Season Pass or monthly, will be admitted FIRST.
Separate lines will form prior to gate opening for prepaid and nonprepaid vendors

!! RAIN or SHINE !! Have no fear of rain, a covered

well illuminated tailgate area is available for all
sellers (6'8" clearance).

Talk-in: 145.23- (PL 88.5) W1BOS/R and
W1XM/R-449.725/444.725 (PL 114.8/2A).

Sponsors: MIT Electronics Research Society
MIT UHF Repeater Association (W1XM)
MIT Radio Society (W1MX)
Harvard Wireless Club (W1AF)

For more info / advanced reservations 617 253 3776

********** $1 buyers discount with hard copy of this notice ************

<<<<<<<<<<<<<<<<<<<<<<<< cut here >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Mail the coupon below by the 5th of the month to be a Prepaid Vendor.

FLEA at MIT 2007 Rates

SELLERS

To use your prepaid spaces the named vendor MUST be present.
Rates include one admission per space.

Advance $17 First space
$12 Additional Spaces
Must be received by the 5th of the month.

Gate Admission $20 First Space
$15 Additional Spaces
Admission is after the prepaid vendors

Early Bird Buyer -Admission after the prepaid vendor line is admitted. ~ 7:15AM
** You may not sell. **
$15 per person at the gate.

****************************** cut here *******************************

FLEA at MIT 2007 Advance Space Application

____April ____May ____June ____ July ____Aug ___Sept ____Oct
@ $17 for the first each month + $12 each additional

Name ________________________ Call __________ $ Included______

Address ________________________ Phone __________ Make Check to
The MIT Radio Society
City ____________________ State _______ Zip _______ PO Box 397082
Cambridge MA 02139

E-mail ____

****
Steve Finberg   W1GSL   w1gsl@mit.edu
PO Box 82 MIT Br   Cambridge MA 02139-7082   617 258 3754
****

From -2878770407610614021
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!sn-xt-sjc-04!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF Amplifier
Date: Wed, 12 Sep 2007 11:21:27 -0700
Organization: Home for Obscure Mythical Beings
Message-ID: <7anlr4-pkg.ln1@radagast.org>
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com> <qprjr4-ogq.ln1@radagast.org> <1189601376.355054.281070@57g2000hsv.googlegroups.com>
X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
X-Complaints-To: abuse@supernews.com
Lines: 26
Xref: g2news2.google.com rec.radio.amateur.homebrew:983

In article <1189601376.355054.281070@57g2000hsv.googlegroups.com>,
Harry7 <cpa599@gmail.com> wrote:

>The low pass filters on the Communications Concepts site are rated for
>a maximum power of 300 watts. Where can I find low pass filters rated
>for 600 watts (or more)?

I don't know of a specific commercial source for them, pre-built.

However, the design formulas for low-pass filters are well understood (IIRC they're published in one of the primary ARRL manuals). You could construct a very hefty "loafs along and doesn't even get warm" low-pass filter, with any desired number of poles, using inductors wound on suitable-size powered-iron toroidal cores (from e.g. Amidon) and silver-mica or "doorknob" RF capacitors (from e.g. RF Parts).

The best source I know of for tables which give the reactance values for such filters is Zverev's "Handbook of Filter Synthesis" - quite dear in hardcover, but it was released in a full-sized paperback edition a few years ago and is much more affordable in that form.

```
--
Dave Platt <dplatt@radagast.org>                                   AE6EO
Friends of Jade Warrior home page:  http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!
```

```
From 8926979005338549704
X-Google-Thread: fc2a5,20d766c55b472ef0
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!g4g2000hsf.googlegroups.com!not-for-
mail
From:  spamhog@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: QRP: broadband HF driver & PA - hints?
Date: Wed, 12 Sep 2007 13:46:32 -0700
Organization: http://groups.google.com
Lines: 32
Message-ID: <1189629992.221869.171230@g4g2000hsf.googlegroups.com>
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NNTP-Posting-Date: Wed, 12 Sep 2007 20:46:32 +0000 (UTC)
In-Reply-To: <kzCFi.100368$Kk.4647161@phobos.telenet-ops.be>
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X-HTTP-UserAgent: Opera/9.23 (X11; Linux i686; U; en),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=213.140.6.109;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:984

On Sep 11, 8:06 pm, "Philo" <ph...@nospampse.be> wrote:

> I sincerely think you would have a lot more fun trying to clone a HW8.
>
> There is no need to pursue much linearity in a cw transmitter ... unless you
> try to build an almost unpractical one.

Granted, Philo...

Here's how the argument goes:
- goal: minimal part count + ability to put clean QRP signal anywhere
- DC drain no problem -> class C not indispensable
- linear broadband keeps part count down and adds little spurs
- do all filtering after PA, if possible with multi-tuned tanks or plug-in LPFs

However, my request is now moot.... I don know what possessed me when
I did my previous searches, but the aforesaid info CAN be found on the
web.

Here is one example:

http://www.qsl.net/ik4auy/article_4_english.htm

Plenty of usable ideas.

I am now experimenting with a simple 2-stage drive (2nd stage push-pull) with plenty of negative feedback. May be enough to go on air.

From -2444766174140104371
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X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!50g2000hsm.googlegroups.com!not-for-mail
From: jgboyles@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF Amplifier
Date: Wed, 12 Sep 2007 15:26:05 -0700
Organization: http://groups.google.com
Lines: 32
Message-ID: <1189635965.672121.110550@50g2000hsm.googlegroups.com>
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
3.0.04506),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.2 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
mtc-th10.proxy.aol.com[400C70EA] (Prism/1.2.1), HTTP/1.1 cache-mtc-
ac15.proxy.aol.com[400C7490] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: 50g2000hsm.googlegroups.com; posting-host=64.12.116.144;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:985
```

On Sep 12, 7:49?am, Harry7 <cpa...@gmail.com> wrote:

> The low pass filters on the Communications Concepts site are rated for
> a maximum power of 300 watts. Where can I find low pass filters rated
> for 600 watts (or more)?

I built the EB104, used it on Field Day driving it with an FT-817 at 5 watts pep out, getting 500-600 watts out of the Amp. Powered the whole thing with a Toshiba 1000 watt generator. Worked great.

The low pass filters were right out of the ARRL Handbook. Did not check with a Spectrum analyzer, was more concerned with providing a 50 ohm in/out Z. Used 500V mica caps and either air or T50 or larger torroids for inductors. Used a ceramic rotary switch to change bands.

If you build the EB104, make sure you understand the phasing and connections of the various transformers on the board. Use copper heat spreader, heat sinks, and cooling fans. You have to have a method of T/R switching. Be sure you understand how to set the bias on each of the 4 MRF150's. You need a power supply capable of 50 volts @ 20 AMPS. The least expensive I have found is a SMPS for about $300. The RFI was not a problem from this particular unit. The commercial versions of the EB104 reduce power thru the ALC if a serious mismatch occurs. I did not bother with this, but you might consider.

The MRF150's are about $300 for a set of matched pairs. If you are not careful you will let the smoke out of the 150's. BTDT.

Good Luck,
Gary N4AST

From 1138113025562007667

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X-Google-Language: ENGLISH,ASCII-7-bit
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news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 12 Sep 2007 19:21:05 -0500
From: "gb" <w9nogbspam@arrlspamno.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
Subject: Re: HF Amplifier
Date: Wed, 12 Sep 2007 19:20:59 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <youdnR-_M5DsH3XbnZ2dnUVZ_qGknZ2d@comcast.com>
Lines: 31
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:986
```

hfprojects Yahoo Group:

Interested builders continue to sign up for the next build of the HF SuperPacker Pro 100W Amp. Get on-board and help spread the word far and wide.

We need 100 builders like you to sign up. Our target is for your cost to be at or below $350. Volume purchases dramatically reduces cost.

Talk it up at your local ham club and swap meets. We can make special dispensation for group builds within a club. Start a fun project in your club!

Go to the the hfprojects Files Section, HF SuperPacker Pro Amplifier, Next Build Sign up. Click on SIGNUP and provide your call and shipping information. Your call will appear on the list in a few days. Check back for timely status information.

This sign up does not obligate you but does indicate your interest as a prospective builder. I thank you for your interest and support!

73 K5OOR - Virgil

"Harry7" <cpa599@gmail.com> wrote in message
news:1189557608.222882.157530@50g2000hsm.googlegroups.com...

> Can anyone point me to plans for a solid state HF (1.8 - 30 mc) Amp 10
> - 15 watts drive 300-1000 watts out.
>

```
From 373112328001064270
X-Google-Thread: 108122,8105aab54ac8e943
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X-Google-Thread: 10bc16,4bd36778e13e6c82,start
X-Google-Thread: f95a4,4bd36778e13e6c82,start
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not-for-mail
From: "Radioisfun" <radioisfun@home.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.cb,rec.radio.amateur.homebrew,alt.autos.niss
an,rec.autos.tech,alt.autos.nissan.maxima
Subject: Re: Worldwide Feedback Pouring in..Telstar Electronics VoiceMax is
GARBAGE!
Date: Thu, 13 Sep 2007 14:04:15 -0400
Organization: TornevallNET - http://news.tornevall.net
Lines: 6
Message-ID: <fcbtc4$l50$1@stable.tornevall.net>
References: <1189531907.877808.176710@r34g2000hsd.googlegroups.com>
<1189557810.896597.9690@22g2000hsm.googlegroups.com>
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X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
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X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.equipment:876 rec.radio.cb:3668
rec.radio.amateur.homebrew:987 alt.autos.nissan:1106 rec.autos.tech:7716
alt.autos.nissan.maxima:533
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IDIOT!

"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
news:1189557810.896597.9690@22g2000hsm.googlegroups.com...

From -4531627544887503189
X-Google-Thread: 106d41,4bd36778e13e6c82
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.germany.com!news.tornevall.net!not-for-mail
From: "Radioisfun" <radioisfun@home.com>
Newsgroups:
rec.radio.cb,rec.radio.amateur.homebrew,alt.autos.nissan,rec.autos.tech,alt.autos.nissan.maxima
Subject: Re: Worldwide Feedback Pouring in..Telstar Electronics VoiceMax is GARBAGE!
Date: Thu, 13 Sep 2007 14:06:34 -0400
Organization: TornevallNET - http://news.tornevall.net
Lines: 6
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IDIOT!

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X-Google-Thread: f95a4,4bd36778e13e6c82
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!news.tornevall.net!
not-for-mail
From: "Radioisfun" <radioisfun@home.com>
Newsgroups:
rec.radio.cb,rec.radio.amateur.homebrew,alt.autos.nissan,rec.autos.tech,alt.autos.
nissan.maxima
Subject: Re: Worldwide Feedback Pouring in..Telstar Electronics VoiceMax is
GARBAGE!
Date: Thu, 13 Sep 2007 14:09:27 -0400
Organization: TornevallNET - http://news.tornevall.net
Lines: 6
Message-ID: <fcbtlr$li3$1@stable.tornevall.net>
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-Validate-Post: http://news.tornevall.net/validate.php?
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alt.autos.nissan:1108 rec.autos.tech:7718 alt.autos.nissan.maxima:535

IDIOT!

"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
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X-Google-Thread: 1109af,2ba384d77785ab7d,start
X-Google-Thread: 1131b0,2ba384d77785ab7d,start
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X-Google-Language: ENGLISH,ASCII-7-bit
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Path: g2news2.google.com!news1.google.com!news.glorb.com!
newscon02.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr19.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.antiques.radio+phono,rec.radio.amateur.homebrew,
rec.radio.swap,sci.electronics.repair
Subject: WTB TS-617 Q meter manual
Lines: 9
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <ZbgGi.4323$7P7.1662@newssvr19.news.prodigy.net>
NNTP-Posting-Host: 70.142.48.149
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr19.news.prodigy.net 1189711737 ST000 70.142.48.149 (Thu, 13 Sep
2007 15:28:57 EDT)
NNTP-Posting-Date: Thu, 13 Sep 2007 15:28:57 EDT
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
SCSYASJDZBUYR_PXGZID]_\@VR]^@B@MCPWZKB]MPXH@ETUCCNSKQFCY@TXDX_WHSVB]ZEJLSNY\^J[CUV
SA_QLFC^RQHUPH[P[NRWCCMLSNPOD_ESALHUK@TDFUZHBLJ\XGKL^NXA\EVHSP[D_C^B_^JCX^W]CHBAX]
POG@SSAZQ\LE[DCNMUPG_VSC@VJM
Date: Thu, 13 Sep 2007 14:28:57 -0500
Xref: g2news2.google.com rec.radio.amateur.boatanchors:1089
rec.antiques.radio+phono:9543 rec.radio.amateur.homebrew:990 rec.radio.swap:1170
sci.electronics.repair:10224

Anyone have a spare manual for the Crescent TS-617 C/U Q meter that they
want to sell or know where I might find one?
tnx

--

73
Hank WD5JFR

From -1010375912027725977
X-Google-Thread: fc2a5,20d766c55b472ef0
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!newsfeed.kamp.net!
newsfeed.kamp.net!novso.com!news.skynet.be!195.130.132.77.MISMATCH!

kramikske.telenet-ops.be!nntp.telenet.be!kwabbernoot.telenet-ops.be!
phobos.telenet-ops.be.POSTED!not-for-mail
From: "Philo" <philo@nospampse.be>
Newsgroups: rec.radio.amateur.homebrew
References: <1189506708.170188.131720@w3g2000hsg.googlegroups.com>
<1189507372.978748.203020@g4g2000hsf.googlegroups.com>
<kzCFi.100368$Kk.4647161@phobos.telenet-ops.be>
<1189629992.221869.171230@g4g2000hsf.googlegroups.com>
Subject: Re: QRP: broadband HF driver & PA - hints?
Lines: 43
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <MOgGi.103636$3y7.5495819@phobos.telenet-ops.be>
Date: Thu, 13 Sep 2007 20:10:20 GMT
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X-Trace: phobos.telenet-ops.be 1189714220 78.21.15.183 (Thu, 13 Sep 2007 22:10:20
MEST)
NNTP-Posting-Date: Thu, 13 Sep 2007 22:10:20 MEST
Organization: Telenet Internet
Xref: g2news2.google.com rec.radio.amateur.homebrew:991

<spamhog@gmail.com> wrote in message
news:1189629992.221869.171230@g4g2000hsf.googlegroups.com...
> On Sep 11, 8:06 pm, "Philo" <ph...@nospampse.be> wrote:
>
>
>> I sincerely think you would have a lot more fun trying to clone a HW8.
>>
>> There is no need to pursue much linearity in a cw transmitter ... unless
>> you
>> try to build an almost unpractical one.
>
> Granted, Philo...
>
> Here's how the argument goes:
> - goal: minimal part count + ability to put clean QRP signal anywhere
> - DC drain no problem -> class C not indispensable
> - linear broadband keeps part count down and adds little spurs
> - do all filtering after PA, if possible with multi-tuned tanks or
> plug-in LPFs
>

There are a few items in your project I have doubts about.

The linear amplifier, for instance. You could build a very linear broadband amplifier with paired CATV transistors in push-pull. Those transistors became old stuff and were trashed the moment they were replaced by IC's (TRW, Motorola, etc.). You still can find some, but a matched pair will be hard to come by. With some transistors you may even have problems to get beneath 5 MHz. And forget about a power supply of 12 volts: you will need at least 2 x 24 volts DC. Anyway, the maximum output will be around 2 volts if you require quality. So you'll need another 10 to 12 dB to get an output of one watt or so. This will be an even greater challenge if you want to keep spurious/harmonics down to -40 or -50 dB.

I also doubt filtering at the output only is practicable. Once garbage got in an amplifier chain, it is very hard to get rid of it. Since you are considering using plug-in filters, build sets of three: use the first between the oscillator and the driver stage, the second one between the driver and the final stage the third in the antenna circuit.

Have fun!

```
From -2045387419536115496
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!
newscon02.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr19.news.prodigy.net.POSTED!c4667c2f!not-for-
mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.antiques.radio+phono,rec.radio.amateur.homebrew,
rec.radio.swap,sci.electronics.repair
References: <ZbgGi.4323$7P7.1662@newssvr19.news.prodigy.net>
Subject: Re: WTB TS-617 Q meter manual
Lines: 1
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
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NNTP-Posting-Host: 70.142.48.149
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr19.news.prodigy.net 1189718013 ST000 70.142.48.149 (Thu, 13 Sep
2007 17:13:33 EDT)
NNTP-Posting-Date: Thu, 13 Sep 2007 17:13:33 EDT
Organization: AT&T http://yahoo.sbc.com
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X-UserInfo1:
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TINTDDMVW[X\THOPXZRVOCJTUTPC_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Thu, 13 Sep 2007 16:13:34 -0500
Xref: g2news2.google.com rec.radio.amateur.boatanchors:1090
rec.antiques.radio+phono:9546 rec.radio.amateur.homebrew:992 rec.radio.swap:1171
sci.electronics.repair:10230

The military designation is: TM 11-6625-471-24P-4 March 1977.

From 6887954755001551460
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc01.POSTED!d89a2db8!not-for-mail
From: "Dale Parfitt" <par@parelectronics.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
Subject: Re: HF Amplifier
Lines: 15
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
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Date: Thu, 13 Sep 2007 22:27:03 GMT
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X-Complaints-To: abuse@verizon.net
X-Trace: trnddc01 1189722423 63.19.234.45 (Thu, 13 Sep 2007 18:27:03 EDT)
NNTP-Posting-Date: Thu, 13 Sep 2007 18:27:03 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:993
X-Original-Bytes: 1251

"Harry7" <cpa599@gmail.com> wrote in message
news:1189557608.222882.157530@50g2000hsm.googlegroups.com...
> Can anyone point me to plans for a solid state HF (1.8 - 30 mc) Amp 10
> - 15 watts drive 300-1000 watts out.

The new SPE-Expert is top of the heap:
http://www.linear-amp.com/?SPE_1K-FA_Reviews

Mine will be here next week. 20W makes full Po,

Dale W4OP
>

From 4236473298894981518
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o80g2000hse.googlegroups.com!not-for-mail
From: Harry7 <cpa599@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF Amplifier
Date: Thu, 13 Sep 2007 23:18:23 -0000
Organization: http://groups.google.com
Lines: 21
Message-ID: <1189725503.848432.236840@o80g2000hse.googlegroups.com>
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
   <XOiGi.2694$282.2627@trnddc01>
NNTP-Posting-Host: 69.61.157.140
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X-Trace: posting.google.com 1189725504 9648 127.0.0.1 (13 Sep 2007 23:18:24 GMT)
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NNTP-Posting-Date: Thu, 13 Sep 2007 23:18:24 +0000 (UTC)
In-Reply-To: <XOiGi.2694$282.2627@trnddc01>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o80g2000hse.googlegroups.com; posting-host=69.61.157.140;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:994

For $2300 it better be.

Terry
W8EJO

>
> The new SPE-Expert is top of the heap:http://www.linear-amp.com/?SPE_1K-FA_Reviews
>
> Mine will be here next week. 20W makes full Po,
>
> Dale W4OP
>
>
>
> - Hide quoted text -
>
> - Show quoted text -

From 2894782455824809581
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.trueband.net!
news.trueband.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 13 Sep 2007 18:56:09 -0500
From: Wes Stewart <n7ws*@*yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF Amplifier
Date: Thu, 13 Sep 2007 16:57:17 -0700
Message-ID: <aiije35de82ctpjnpd64f1cicrpleek9k2@4ax.com>
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
<XOiGi.2694$282.2627@trnddc01>
<1189725503.848432.236840@o80g2000hse.googlegroups.com>
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MIME-Version: 1.0
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Lines: 32
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6u+e77A8x5bVKcfsSClQOafRZrsnDg==
X-Complaints-To: abuse@trueband.net
X-DMCA-Complaints-To: abuse@trueband.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:995

On Thu, 13 Sep 2007 23:18:23 -0000, Harry7 <cpa599@gmail.com> wrote:

>For $2300 it better be.
>
>Terry
>W8EJO
>

Where do you see it for that price? Array Solutions wants $4175 which is 3 dB too much for me.

A coupla bucks a watt would be reasonable these days.

Wes N7WS

```
>
>
>>
>> The new SPE-Expert is top of the heap:http://www.linear-amp.com/?SPE_1K-
FA_Reviews
>>
>> Mine will be here next week. 20W makes full Po,
>>
>> Dale W4OP
>>
>>
>>
>> - Hide quoted text -
>>
>> - Show quoted text -
>



From 3614894669440055528
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!cycny01.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc04.POSTED!d89a2db8!not-for-mail
From: "Dale Parfitt" <par@parelectronics.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
<XOiGi.2694$282.2627@trnddc01>
<1189725503.848432.236840@o80g2000hse.googlegroups.com>
<aiije35de82ctpjnpd64f1cicrpleek9k2@4ax.com>
Subject: Re: HF Amplifier
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <wxkGi.13979$bf1.6741@trnddc04>
Date: Fri, 14 Sep 2007 00:25:00 GMT
NNTP-Posting-Host: 63.19.238.133
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc04 1189729500 63.19.238.133 (Thu, 13 Sep 2007 20:25:00 EDT)
NNTP-Posting-Date: Thu, 13 Sep 2007 20:25:00 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:996


"Wes Stewart" <n7ws*@*yahoo.com> wrote in message
news:aiije35de82ctpjnpd64f1cicrpleek9k2@4ax.com...
> On Thu, 13 Sep 2007 23:18:23 -0000, Harry7 <cpa599@gmail.com> wrote:
>
>>For $2300 it better be.
```

>>
>>Terry
>>W8EJO
>>
>
> Where do you see it for that price? Array Solutions wants $4175 which
> is 3 dB too much for me.
>
> A coupla bucks a watt would be reasonable these days.
>
> Wes N7WS
>
It is pretty much priced along the lines of the Icom and Yaesu amps, but is
MUCH smaller, lighter and a heck of a lot more forgiving of errors. At
Dayton, they shorted the output and opened the output while the amp was
making full power. Forced it to one band while the exciter was on a
different band.

Dale

From 8243749022493245501
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!newsfeed.vmunix.org!peer-uk.news.demon.net!kibo.news.demon.net!
news.demon.co.uk!demon!clintsmc.demon.co.uk!clint
From: Clint Sharp <clint@clintsmc.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF Amplifier
Date: Thu, 13 Sep 2007 18:15:48 +0100
Organization: Little
Lines: 14
Message-ID: <kCuh0gEEBX6GFwn+@clintsmc.demon.co.uk>
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
 <qprjr4-ogq.ln1@radagast.org>
 <1189601376.355054.281070@57g2000hsv.googlegroups.com>
 <1189635965.672121.110550@50g2000hsm.googlegroups.com>
NNTP-Posting-Host: clintsmc.demon.co.uk
Mime-Version: 1.0
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X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Fri, 14 Sep 2007 06:42:53 +0000 (UTC)
User-Agent: Turnpike/6.05-S (<+7zL$V$$cvbnWL87SB3LbWp2NY>)
Xref: g2news2.google.com rec.radio.amateur.homebrew:997

In message <1189635965.672121.110550@50g2000hsm.googlegroups.com>,
jgboyles@aol.com writes

```
>The least expensive I have found is a SMPS for about $300.  The
>RFI was not a problem from this particular unit.
Surplus telecoms equipment PSUs can be had at around 48v for little
money, I've been given several in the past that were 1500W+, not having
an immediate use for them I've passed them on..
>Good Luck,
>Gary N4AST
>
>

--
Clint Sharp


From -2519276835266576203
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news.tele.dk!
feed118.news.tele.dk!news.tele.dk!small.news.tele.dk!
lnewsinpeer00.lnd.ops.eu.uu.net!emea.uu.net!peer-uk.news.demon.net!
kibo.news.demon.net!news.demon.co.uk!demon!clintsmc.demon.co.uk!clint
From: Clint Sharp <clint@clintsmc.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF Amplifier
Date: Fri, 14 Sep 2007 08:22:50 +0100
Organization: Little
Lines: 16
Message-ID: <hX9wBcBKbj6GFwmS@clintsmc.demon.co.uk>
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
 <XOiGi.2694$282.2627@trnddc01>
 <1189725503.848432.236840@o80g2000hse.googlegroups.com>
 <aiije35de82ctpjnpd64f1cicrpleek9k2@4ax.com> <wxkGi.13979$bf1.6741@trnddc04>
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Mime-Version: 1.0
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X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Fri, 14 Sep 2007 16:32:00 +0000 (UTC)
User-Agent: Turnpike/6.05-S (<nT2L$1pmcvLGnJ87EY$LbyIgdw>)
Xref: g2news2.google.com rec.radio.amateur.homebrew:998

In message <wxkGi.13979$bf1.6741@trnddc04>, Dale Parfitt
<par@parelectronics.com> writes
>It is pretty much priced along the lines of the Icom and Yaesu amps, but is
>MUCH smaller, lighter and a heck of a lot more forgiving of errors. At
>Dayton, they shorted the output and opened the output while the amp was
>making full power. Forced it to one band while the exciter was on a
>different band.
Ahh, and you're dumb enough to do that in real operation? OK, worth
every penny then.
>
>Dale
```

```
>
>

--
Clint Sharp


From -6729107190595181547
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr29.news.prodigy.net.POSTED!476e347b!not-for-mail
From: "Al Lorona" <al_lorona@agilent.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
<XOiGi.2694$282.2627@trnddc01>
<1189725503.848432.236840@o80g2000hse.googlegroups.com>
<aiije35de82ctpjnpd64f1cicrpleek9k2@4ax.com> <wxkGi.13979$bf1.6741@trnddc04>
<hX9wBcBKbj6GFwmS@clintsmc.demon.co.uk>
Subject: Re: HF Amplifier
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <7LBGi.53800$YL5.33530@newssvr29.news.prodigy.net>
NNTP-Posting-Host: 192.25.142.232
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr29.news.prodigy.net 1189800003 ST000 192.25.142.232 (Fri, 14 Sep
2007 16:00:03 EDT)
NNTP-Posting-Date: Fri, 14 Sep 2007 16:00:03 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
O@YKRYOGZRUQBFD[LZKJOPHAWB\^PBQLGPQRJRQIMASJETAANVW[AKWZE\]^XQWIGNE_[EBL@^_\^JOCQ^
RSNVLGTFTKHTXHHP[NB\_C@\SD@EP_[KCXX__AGDDEKGFNB\ZOKLRNCY_CGG[RHT_UN@C_BSY\G__IJIX_
PLSA[CCFAULEY\FL\VLGANTQQ]FN
Date: Fri, 14 Sep 2007 20:00:03 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:999


"Clint Sharp" <clint@clintsmc.demon.co.uk> wrote in message
news:hX9wBcBKbj6GFwmS@clintsmc.demon.co.uk...

> Ahh, and you're dumb enough to do that in real operation? OK, worth every
> penny then.
>
> Clint Sharp

Clint, you've obviously never operated a 48-hour contest where by the end of
```

it there is a real possibility of doing something "dumb enough". Maybe you
just don't know what sleep deprivation in contest conditions can do to you.
I'll give you the benefit of the doubt.

Al W6LX

From -4906734457881193423
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.tele.dk!
feed118.news.tele.dk!news.tele.dk!small.news.tele.dk!
lnewsinpeer00.lnd.ops.eu.uu.net!emea.uu.net!peer-uk.news.demon.net!
kibo.news.demon.net!news.demon.co.uk!demon!clintsmc.demon.co.uk!clint
From: Clint Sharp <clint@clintsmc.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF Amplifier
Date: Fri, 14 Sep 2007 22:27:07 +0100
Organization: Little
Lines: 21
Message-ID: <ZK1uGaEryv6GFwAu@clintsmc.demon.co.uk>
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
 <XOiGi.2694$282.2627@trnddc01>
 <1189725503.848432.236840@o80g2000hse.googlegroups.com>
 <aiije35de82ctpjnpd64f1cicrpleek9k2@4ax.com> <wxkGi.13979$bf1.6741@trnddc04>
 <hX9wBcBKbj6GFwmS@clintsmc.demon.co.uk>
 <7LBGi.53800$YL5.33530@newssvr29.news.prodigy.net>
NNTP-Posting-Host: clintsmc.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1189805246 5995 62.49.16.63 (14 Sep 2007 21:27:26 GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Fri, 14 Sep 2007 21:27:26 +0000 (UTC)
User-Agent: Turnpike/6.05-S (<KG5L$hULcv7RxK87dl4LbGedcH>)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1000

In message <7LBGi.53800$YL5.33530@newssvr29.news.prodigy.net>, Al Lorona
<al_lorona@agilent.com> writes
>Clint, you've obviously never operated a 48-hour contest where by the end of
>it there is a real possibility of doing something "dumb enough". Maybe you
>just don't know what sleep deprivation in contest conditions can do to you.
>I'll give you the benefit of the doubt.

  48 hours without sleep is considered torture by humanitarian
organisations when inflicted on 'prisoners', I didn't realise anyone
would do it for fun ;-)

  I don't think contesting would be for me, I think I'd enjoy making a
contact on a flea power radio built from snot and tissue paper rather

more but if we were all the same the world would be damn boring.
>
>Al W6LX
>
>
>

--
Clint Sharp

```
From 8779920276389889780
X-Google-Thread: fc2a5,a2eec9bb6a24a9df
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder3.cambrium.nl!feeder1.cambrium.nl!
feed.tweaknews.nl!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-11!sn-xt-ams-03!
sn-post-ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Chris Jones <lugnut808@nospam.yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF finals from PC monitor boards?
Date: Fri, 14 Sep 2007 23:37:57 +0100
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13elvl25aikir53@corp.supernews.com>
References: <1185730502.849368.23240@q75g2000hsh.googlegroups.com>
<46acff24$0$21204$5fc30a8@news.tiscali.it>
<1185812712.061221.147980@q75g2000hsh.googlegroups.com>
<13asq0jr2914k7f@corp.supernews.com>
<1189452885.378355.172450@r29g2000hsg.googlegroups.com>
User-Agent: KNode/0.7.7
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Complaints-To: abuse@supernews.com
Lines: 46
Xref: g2news2.google.com rec.radio.amateur.homebrew:1001
```

spamhog@gmail.com wrote:

>
> I already found something, thinking a bit sideways: these SS devices
> impressed me more on the current- than on the voltage handling side.
> I reckoned that scaling to higher powers was mostly done in current,
> so I headed for a low power video unit I had: a long deceased bible-
> sized 1970's TV + radio combo, with a 2" B/W screen. As suspected, I
> found 2-3W low capacitance bipolars that could run into VHF... so
> much so I had to bead them to keep them from producing spurs in my
> ugly prototype.
>
>
>
> On Jul 30, 11:37 pm, Chris Jones <lugnut...@nospam.yahoo.com> wrote:
>

>> 2SB772 (PNP) and 2SD882 (NPN) (10-Watt 30V, 3A, fT>80MHz)
>
>> The video amplifiers in a monitor have to be pretty fast for high
>> resolution
>> signals, and often these are discrete transistors to handle the power. I
>> got some 2SC2682 devices out of monitors - 180V, 3.2pF, fT=200MHz, 10W -
>> a few of these could make a useful amount of RF, I reckon.
>
>
> Hmmmm.... I'll look harder. The pile of monitors is still there
> gracing a hidden nook of my place.
>
> W.r.t. the high definition requiring high frequency: KVM switches
> often quote their bandwidth, which must match what^s required from a
> given definition (if a KVM only quotes that, and not pixels, good luck
> finding the equivalents). Bandwidths now run in the 200-300MHz range,
> which is a good omen.
>
> Where would such transistors be?
>
> In the vicinity of the HV coil?
>
> Or near the CRT cathode?

The video amplifiers are normally on the PCB that plugs directly onto the
back of the tube. The unusual thing about those transistors is that they
are moderately fast and also capable of handling quite high voltage.

Chris

From 2938540325996318379
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF Amplifier
Date: 14 Sep 2007 22:06:31 GMT
Organization: The National Capital FreeNet
Lines: 29
Message-ID: <fcf0l7$o1h$1@theodyn.ncf.ca>
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
<ZK1uGaEryv6GFwAu@clintsmc.demon.co.uk>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1189807591 24625 134.117.136.48 (14 Sep 2007 22:06:31 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 14 Sep 2007 22:06:31 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1002

```
Clint Sharp (clint@clintsmc.demon.co.uk) writes:
> In message <7LBGi.53800$YL5.33530@newssvr29.news.prodigy.net>, Al Lorona
> <al_lorona@agilent.com> writes
>>Clint, you've obviously never operated a 48-hour contest where by the end of
>>it there is a real possibility of doing something "dumb enough". Maybe you
>>just don't know what sleep deprivation in contest conditions can do to you.
>>I'll give you the benefit of the doubt.
>   48 hours without sleep is considered torture by humanitarian
> organisations when inflicted on 'prisoners', I didn't realise anyone
> would do it for fun ;-)
>
>   I don't think contesting would be for me, I think I'd enjoy making a
> contact on a flea power radio built from snot and tissue paper rather
> more but if we were all the same the world would be damn boring.

But the same thing can happen.

You start work on something, and keep at it until it's really late.
Or you've built it, and it won't work, and you stay up really late
to figure out what's wrong.  Or, you know you had that really neat
reduction drive in a box somewhere, and you stay up all night trying
to find it.  You know it's there, but you still don't find it.  "One
more box, it has to be in there....".

The longer you stay up, the less effective you become.  Get some
sleep, and you'll stop making the mistakes that keep you up even
further.

    Michael  VE2BVW


From 6236610205443852373
X-Google-Thread: fc2a5,f0768beb2500250f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews1.bellsouth.net.POSTED!ef55a73e!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.12 (X11/20070606)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Single Tube Modulator
References: <13dem6fl1r7ok85@corp.supernews.com>
<idetd39oida7k7gjvv7dt53jq845csee84@4ax.com>
<1189103423.440211.301370@r34g2000hsd.googlegroups.com>
In-Reply-To: <1189103423.440211.301370@r34g2000hsd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 26
Message-ID: <jJEGi.86415$pu2.15077@bignews1.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
```

```
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
pcpocbcnbdmdhgfgdbdpiflmbcekedmfhojhikkbagflhcbokanggieopaillpcmajkdhpinmfmmmidlcl
imlaljonnfjmieokinkfmpjfmnlkoibhdmbebeimpemgfgcneohfljacgaiedgllgpngigfcfmcgoc
NNTP-Posting-Date: Fri, 14 Sep 2007 19:22:55 EDT
Organization: BellSouth Internet Group
Date: Fri, 14 Sep 2007 23:23:00 +0000
Xref: g2news2.google.com rec.radio.amateur.homebrew:1003

terry wrote:
> On Sep 5, 12:24 pm, John Ferrell <johnferr...@sprintmail.com> wrote:
>> On Thu, 30 Aug 2007 17:54:46 -0600, Jack Schmidling <a...@mc.net>
>> wrote:
>>
>>> Is it convenience or the laws of physics that modulators are always two
>>> tubes in push pull?
>>> I have an extra 811 and socket and was wondering if there is a way to
>>> use this to plate modulate my 811 cw transmitter.
>>> pics of 811 project athttp://schmidling.com/radio.htm
>>> js
>> Finding a plate modulation transformer may be the hardest part. They
>> have always been expensive.
>>
>> Cathode modulation is my next choice with grid modulation as a last
>> resort.
>>
>> John Ferrell W8CCW
>> "Life is easier if you learn to
>> plow around the stumps"
>
> Screen grid modualtion it it was a tetrode PA! But the 811 is a triode
> I think?
>
You can always grid modulate a triode tube.  The results are similar to
screen modulation of a tetrode tube.


From 2625939596343647160
X-Google-Thread: fc2a5,f0768beb2500250f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews1.bellsouth.net.POSTED!ef55a73e!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.12 (X11/20070606)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Single Tube Modulator
References: <13dem6fl1r7ok85@corp.supernews.com>
<iuqed3po4fj91ihe0v1iqfkrbh9lrspl7t@4ax.com>
<13des6db804rd6f@corp.supernews.com>   <ZaLBi.63840$Xa3.15022@attbi_s22>
<1188577021.276710.184260@k79g2000hse.googlegroups.com>
```

```
<1189103310.592809.321110@19g2000hsx.googlegroups.com>
In-Reply-To: <1189103310.592809.321110@19g2000hsx.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 60
Message-ID: <HOEGi.86444$pu2.49504@bignews1.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
pcpocbcnbdmdhgfgdbdpiflmbcekedmfhojhikkbagflhcbolpcbpagbmgcaamoiafijknpijkjphmbccl
imlaljonnfjmieokinkfmpjfmnlkoibhdmbebeimpemgfgejhfcgfhkgijelokpafgfaaiineaepkk
NNTP-Posting-Date: Fri, 14 Sep 2007 19:28:39 EDT
Organization: BellSouth Internet Group
Date: Fri, 14 Sep 2007 23:28:44 +0000
Xref: g2news2.google.com rec.radio.amateur.homebrew:1004

terry wrote:
> On Aug 31, 2:17 pm, K7ITM <k7...@msn.com> wrote:
>> On Aug 30, 7:38 pm, "Harold E. Johnson" <W4...@mchsi.com> wrote:
>>
>>
>>
>>
>>
>>> "COLIN LAMB" <k...@teleport.com> wrote in message
>>> news:13des6db804rd6f@corp.supernews.com...> Push-Pull allows you to run in
other than class A, which is about 35%
>>>> efficient.  However, class A can result in very good audio.
>>>> Some high end audio amplifiers are single ended class A.  High power puts
>>>> out a lot of heat.
>>>> Colin  K7FM
>>> Back in the year one, Bill Orr, W6SAI, published an article (When QST was
>>> still a technical magazine) on a single 304TL Heising modulator. I built one
>>> to modulate a 4-400A.
>>> Ran class A when you were talking to it, ran class C when you weren't.
>>> Shifted the bias at a syllabic rate by rectifying a bit of the preamp audio
>>> and applying it as forward bias when talking. Worked very well, quite
>>> efficient, and the origin of EBC. The Electronic Bias Control bias shift
>>> seen in 1970 and 80 Alpha RF Amplifiers to hold down plate dissipation for
>>> class AB and B operation.
>>> W4ZCB
>> Which Year One was that, Harold?  Where I became a ham many years
>> back, there was a creative fellow in our club who designed a compact
>> AM transmitter using a couple 6146s, one for the RF PA and one for the
>> audio output.  They were coupled not by a choke as in Heising, but by
>> a common audio output transformer, available back then much more
>> readily than a modulation transformer, and having the advantage that
>> the DC in the center-tapped winding was (nearly) balanced, avoiding
>> saturation effects in the transformer and allowing the use of a
>> relatively small transformer.  I think Mitch designed that thing in
>> the mid 50's.
>>
>> Cheers,
```

>> Tom- Hide quoted text -
>>
>> - Show quoted text -
>
> I understand that the answer to the basic question is 'no'; not
> necessarily push pull for an audio modulator. Just a big hefty audio
> amp and some means of plate modulating the RF PA! There are other
> methods of AM modulation etc.
>
> BTW the 6146 design above sounds ingenious; have a mental picture of
> the total DC plate currents divided in opposite directions one for the
> RF tube and the other for the modulator tube. Then I suppose the
> modulator tube as it received audio, varied the plate voltage/current
> of the RF tube thus modulating it. A sort of variation of Heising
> (choke) modulation? Interesting.
>

While modulation transformers are getting a bit rare and expensive these
days there are ways to get around the problem. Years ago the ARRL
handbook used a filament transformer as a modulation transformer. The
center tapped secondary was used as the primary with high power
germaninum transistors (this was a mobile rig). The 115v primary was
the modulation secondary.

One could also use two tube type output transformers back to back.

From -1522656375654585772
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns11feed!worldnet.att.net!199.45.49.37!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc03.POSTED!d89a2db8!not-for-mail
From: "Dale Parfitt" <par@parelectronics.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
<XOiGi.2694$282.2627@trnddc01>
<1189725503.848432.236840@o80g2000hse.googlegroups.com>
<aiije35de82ctpjnpd64f1cicrpleek9k2@4ax.com> <wxkGi.13979$bf1.6741@trnddc04>
<hX9wBcBKbj6GFwmS@clintsmc.demon.co.uk>
Subject: Re: HF Amplifier
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <HDIGi.1210$ec2.57@trnddc03>
Date: Sat, 15 Sep 2007 03:49:59 GMT
NNTP-Posting-Host: 63.19.164.197
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc03 1189828199 63.19.164.197 (Fri, 14 Sep 2007 23:49:59 EDT)
NNTP-Posting-Date: Fri, 14 Sep 2007 23:49:59 EDT

```
Xref: g2news2.google.com rec.radio.amateur.homebrew:1005


"Clint Sharp" <clint@clintsmc.demon.co.uk> wrote in message
news:hX9wBcBKbj6GFwmS@clintsmc.demon.co.uk...
> In message <wxkGi.13979$bf1.6741@trnddc04>, Dale Parfitt
> <par@parelectronics.com> writes
>>It is pretty much priced along the lines of the Icom and Yaesu amps, but
>>is
>>MUCH smaller, lighter and a heck of a lot more forgiving of errors. At
>>Dayton, they shorted the output and opened the output while the amp was
>>making full power. Forced it to one band while the exciter was on a
>>different band.
> Ahh, and you're dumb enough to do that in real operation? OK, worth every
> penny then.
>>
>>Dale
I don't recall saying I did this Clint. It was done at Dayton to show the
amp is not prone to the problems the Icom, Yaesu and most of all the Tokyo
amps are prone to.
Dale W4OP




From -7512544275505197870
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!newsgate.cistron.nl!
xs4all!newsfeed.stueberl.de!peer-uk.news.demon.net!kibo.news.demon.net!
mutlu.news.demon.net!news.demon.co.uk!demon!clintsmc.demon.co.uk!clint
From: Clint Sharp <clint@clintsmc.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF Amplifier
Date: Sat, 15 Sep 2007 10:41:44 +0100
Organization: Little
Lines: 22
Message-ID: <$uZnPFDYj66GFw36@clintsmc.demon.co.uk>
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
 <XOiGi.2694$282.2627@trnddc01>
 <1189725503.848432.236840@o80g2000hse.googlegroups.com>
 <aiije35de82ctpjnpd64f1cicrpleek9k2@4ax.com> <wxkGi.13979$bf1.6741@trnddc04>
 <hX9wBcBKbj6GFwmS@clintsmc.demon.co.uk> <HDIGi.1210$ec2.57@trnddc03>
NNTP-Posting-Host: clintsmc.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1189849853 26252 62.49.16.63 (15 Sep 2007 09:50:53 GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Sat, 15 Sep 2007 09:50:53 +0000 (UTC)
User-Agent: Turnpike/6.05-S (<KS$L$xEvcv7EzK87El8LbGOEgh>)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1006
```

In message <HDIGi.1210$ec2.57@trnddc03>, Dale Parfitt
<par@parelectronics.com> writes
>> Ahh, and you're dumb enough to do that in real operation? OK, worth every
>> penny then.
>>>
>>>Dale
>I don't recall saying I did this Clint. It was done at Dayton to show the
>amp is not prone to the problems the Icom, Yaesu and most of all the Tokyo
>amps are prone to.
>Dale W4OP
>
And I didn't suggest that you did, you said you had ordered the amp IIRC
and were waiting delivery? In my oblique and cynical English way, I
wondered if you really needed the (expensive) protection circuitry as an
experienced operator. It's a nice amp but for that price you really have
to ask if you're dumb/unlucky enough to need all that protection you're
paying extra for because I'm sure there are cheaper ways to get the
power, hell, if you really wanted to, you could even *build* something
(or does that go against the grain of amateur radio these days) for
under a quarter of that price and still make it look real pretty.
--
Clint Sharp

From -1271968430218276644
X-Google-Thread: fc2a5,ddca4c959adc54b8,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wn13feed!worldnet.att.net!bgtnsc04-
news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: MO' TUBES/STUFF: 6LQ6. 71A....
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <68YGi.550432$p47.41095@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: 5c4b976d1b5092dff9287d8e77a099b4
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1189891714
5c4b976d1b5092dff9287d8e77a099b4 (Sat, 15 Sep 2007 21:28:34 GMT)
NNTP-Posting-Date: Sat, 15 Sep 2007 21:28:34 GMT
Organization: AT&T Worldnet
Date: Sat, 15 Sep 2007 21:28:34 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1007

Tubes listed presently-some going off shortly:
6146W, 5Z3, 12BY7, 6360, 6FQ7, 6LQ6, 71A, 6B4G, 12AXTWXT,
AMPEREX ASSORTMENT

```
STUFF ON NOW:

NRI LAB + OTHER PARTICAL KITS,  SOLDER TERMINALS,  SMALL & LARGE KNOBS,
THORD CHOKE, TORIOIDS,  VARIABLE POTS,  INSULATORS,  TRANSISTOR SOCKETS.

Pse check daily for additions: so much stuff- see at:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

Tnx, 73 Heytubeguy




From 5487456587522844322
X-Google-Thread: fc2a5,b86105c76b7f5fe0,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews5.bellsouth.net.POSTED!477e0aba!
not-for-mail
From: Ted <kilocycles@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Test
Reply-To: kilocycles_at_yahoo_dot_com
Message-ID: <pjloe3d6bm0bfo5rvf9aini5upp52lvb1m@4ax.com>
X-Newsreader: Forte Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 1
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcbokglaoiddpnjphchgfeaidjnaemoelcdiok
ompnccapjgkdbfncnohkaabhndkoefgompdmeinpcoddehcgkagjdncjikjeaefghccjlhodhihlcn
NNTP-Posting-Date: Sat, 15 Sep 2007 18:02:53 EDT
Organization: BellSouth Internet Group
Date: Sat, 15 Sep 2007 18:03:03 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:1008

Test, plz ignore


From -7769428319679916140
X-Google-Thread: fc2a5,20d766c55b472ef0
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews5.bellsouth.net.POSTED!477e0aba!
not-for-mail
From: Ted <kilocycles@yahoo.com>
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: QRP: broadband HF driver & PA - hints?
Reply-To: kilocycles_at_yahoo_dot_com
Message-ID: <6cmoe31o7c5fuhd8atqk7579p8tjenl5l8@4ax.com>
References: <1189506708.170188.131720@w3g2000hsg.googlegroups.com>
<1189507372.978748.203020@g4g2000hsf.googlegroups.com>
<kzCFi.100368$Kk.4647161@phobos.telenet-ops.be>
<1189629992.221869.171230@g4g2000hsf.googlegroups.com>
X-Newsreader: Forte Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 42
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcbobdencibcjecdpfpkaebckapdlcgdmfgdok
ompnccapjgkdbfncnohkaabhndkoefgompdmeinpcoddehlfoaheghbchfjoilphdbpkpbdmpmlgfj
NNTP-Posting-Date: Sat, 15 Sep 2007 18:21:50 EDT
Organization: BellSouth Internet Group
Date: Sat, 15 Sep 2007 18:22:00 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:1009

On Wed, 12 Sep 2007 13:46:32 -0700, spamhog@gmail.com wrote:

>On Sep 11, 8:06 pm, "Philo" <ph...@nospampse.be> wrote:
>
>
>> I sincerely think you would have a lot more fun trying to clone a HW8.
>>
>> There is no need to pursue much linearity in a cw transmitter ... unless you
>> try to build an almost unpractical one.
>
>Granted, Philo...
>
>Here's how the argument goes:
>- goal:  minimal part count + ability to put clean QRP signal anywhere
>- DC drain no problem -> class C not indispensable
>- linear broadband keeps part count down and adds little spurs
>- do all filtering after PA, if possible with multi-tuned tanks or
>plug-in LPFs
>
>However, my request is now moot.... I don know what possessed me when
>I did my previous searches, but the aforesaid info CAN be found on the
>web.
>
>Here is one example:
>
>http://www.qsl.net/ik4auy/article_4_english.htm
>
>Plenty of usable ideas.
>
>I am now experimenting with a simple 2-stage drive (2nd stage push-
```

>pull) with plenty of negative feedback. May be enough to go on air.
>
>

You might want to check out the Mistubishi RD16HHF1 RF MOSFET. They
are available from RF Parts at $4.20 apiece, and have similar specs to
the 2SC1969, except with 4 dB more gain. The data sheet tests them at
12.5VDC @ 30 MHz. W7ZOI did a post to the EMRFD Yahoo group about
them. I bought 35 for our QRP club at $3.10 each from RF Parts.

By the way, CB shops advertise them as "drop-in replacements" for the
2SC1969.   Grain of salt there........

```
From 6106368868717522122
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!199.45.49.37!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc02.POSTED!d89a2db8!not-for-mail
From: "Dale Parfitt" <par@parelectronics.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
<XOiGi.2694$282.2627@trnddc01>
<1189725503.848432.236840@o80g2000hse.googlegroups.com>
<aiije35de82ctpjnpd64f1cicrpleek9k2@4ax.com> <wxkGi.13979$bf1.6741@trnddc04>
<hX9wBcBKbj6GFwmS@clintsmc.demon.co.uk> <HDIGi.1210$ec2.57@trnddc03>
<$uZnPFDYj66GFw36@clintsmc.demon.co.uk>
Subject: Re: HF Amplifier
Lines: 42
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <GrZGi.4808$re2.2372@trnddc02>
Date: Sat, 15 Sep 2007 22:57:42 GMT
NNTP-Posting-Host: 63.19.246.190
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc02 1189897062 63.19.246.190 (Sat, 15 Sep 2007 18:57:42 EDT)
NNTP-Posting-Date: Sat, 15 Sep 2007 18:57:42 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1010
```

"Clint Sharp" <clint@clintsmc.demon.co.uk> wrote in message
news:$uZnPFDYj66GFw36@clintsmc.demon.co.uk...
> In message <HDIGi.1210$ec2.57@trnddc03>, Dale Parfitt
> <par@parelectronics.com> writes
>>> Ahh, and you're dumb enough to do that in real operation? OK, worth
>>> every
>>> penny then.
>>>>

```
>>>>Dale
>>I don't recall saying I did this Clint. It was done at Dayton to show the
>>amp is not prone to the problems the Icom, Yaesu and most of all the Tokyo
>>amps are prone to.
>>Dale W4OP
>>
> And I didn't suggest that you did, you said you had ordered the amp IIRC
> and were waiting delivery? In my oblique and cynical English way, I
> wondered if you really needed the (expensive) protection circuitry as an
> experienced operator. It's a nice amp but for that price you really have
> to ask if you're dumb/unlucky enough to need all that protection you're
> paying extra for because I'm sure there are cheaper ways to get the power,
> hell, if you really wanted to, you could even *build* something (or does
> that go against the grain of amateur radio these days) for under a quarter
> of that price and still make it look real pretty.
> --
> Clint Sharp

The point Clint, is that other amps in its price range appear to have high
failure rates, while the SPE has zero failure rates to date. This comes down
to good engineering.
As for homebrewing, in the past couple of years I've built 2 water cooled
1296 amps and now a 400W solid state 1296 amp. Here's a shot of a recent all
mode (including sync AM) HF RX with DDS VFO (this is 100% homebrew, not an
Elecraft):
http://www.elecraft.com/PictureGallery/NewPics2/w4op_rx_ec2.jpg
so please don't talk to me about homebrewing. I build what I want and buy
what I want.

Dale W4OP






From -7055026261694816449
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 15 Sep 2007 18:03:18 -0500
Message-Id: <kr4ur4-es3.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: Re: HF Amplifier
Newsgroups: rec.radio.amateur.homebrew
Date: Sat, 15 Sep 2007 18:01:40 -0500
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
<XOiGi.2694$282.2627@trnddc01>
<1189725503.848432.236840@o80g2000hse.googlegroups.com>
<aiije35de82ctpjnpd64f1cicrpleek9k2@4ax.com> <wxkGi.13979$bf1.6741@trnddc04>
<hX9wBcBKbj6GFwmS@clintsmc.demon.co.uk> <HDIGi.1210$ec2.57@trnddc03>
```

<$uZnPFDYj66GFw36@clintsmc.demon.co.uk> <GrZGi.4808$re2.2372@trnddc02>
Organization: the clifto consortium
User-Agent: KNode/0.10.5
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 9
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.15.125.52
X-Trace: sv3-kMEwHvknmOJf01olb/1y3K8wUb+NgMyr+1wFQKXvni0xbxQemzosR8ODJdy48SGM/
QwHDloD2nMYQet!b1VWZ8YsVxPwDdlbeurEJD37RMtHEJwvpT/55etUsD/
5d+Qgl8rJchsojypqtkmkuhKk/TFeiFnL!zr+/+DRgD7/K
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1011

Dale Parfitt wrote:

> so please don't talk to me about homebrewing. I build what I want and buy
> what I want.

Must be nice. I build or buy whatever SWMBO lets me build or buy.

--
If you really believe carbon dioxide causes global warming,
you should stop exhaling.

From -4736592241591125283
X-Google-Thread: fc2a5,20d766c55b472ef0
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!feeder.news-service.com!tudelft.nl!txtfeed1.tudelft.nl!
border-1.ams.xsnews.nl!feed.xsnews.nl!border-2.ams.xsnews.nl!
216.196.110.149.MISMATCH!border2.nntp.ams.giganews.com!nntp.giganews.com!
feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Kba <kba@nic.fi>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: QRP: broadband HF driver & PA - hints?
References: <1189506708.170188.131720@w3g2000hsg.googlegroups.com>
In-Reply-To: <1189506708.170188.131720@w3g2000hsg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 46
Message-ID: <Gw3Hi.224159$sL7.80737@reader1.news.saunalahti.fi>
Date: Sun, 16 Sep 2007 08:56:01 +0300
NNTP-Posting-Host: 85.77.241.91

```
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1189921958 85.77.241.91 (Sun, 16 Sep 2007
08:52:38 EEST)
NNTP-Posting-Date: Sun, 16 Sep 2007 08:52:38 EEST
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:1012

Hi, one that would possibly be quite close your needs has been described in
the VHF Communications 1 / 1982. It's a linear 3 stage wide band HF driver 4W
output and 44db power gain. Supply voltages are 28V 0.25A and 15V 0.08A.
The article is on four pages.

br oh6io


spamhog@gmail.com wrote:
> I would like to make a flexible CW TX with a broad coverage of HF,
> something like:
>
> VXO or                  BB                                BB POWER
> AMP              TUNABLE BPF
> VFO          ===>    DRIVER            ===>    (2-5W, derated)
> ===>  PLUGIN LPFs
> (50-100 mW)          AMP (.5 to 1W)             RF
> TRANSFORMER           R/T SWITCHING
>
>
> I'd like the driver-PA chain to be no-tune and unflappably stable
> over, say, 7-15 or 3-30 MHz, with 50 ohm I/O.  I guess the driver
> stage(s) need not be nondistorting, as a C class PA will produce much
> in the way of harmonics to be accurately filtered out, but it would be
> nice-to-have. I don't know if a more linear power amp would help, but
> I'm willing to use large a derated final and go balanced and/or class
> A, with negative feedback, if it helps stability and bandwidth.  That
> would help spectral purity too, but I see it as a side effect not to
> be relied on too much.
>
>
>
> I looked around, found plenty of professional ready made gear, but not
> much in the way of tips.
>
> I'd be tempted to start as with two low-distortion audio-like stages
> with negative feedback and broad bandwidth-limiting, such as small
> caps to ground, and large coupling caps + VHF beads in the signal
> paths, but it would be trial and error.
>
> Any suggestions on where I should have looked???
>
>
>
> tx es 73 de n1jpr/i2
>
```

From 8149587087278576532
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.karotte.org!
news2.arglkargh.de!feeder.erje.net!news-fra1.dfn.de!news.tele.dk!
feed118.news.tele.dk!news.tele.dk!small.news.tele.dk!
lnewsinpeer00.lnd.ops.eu.uu.net!emea.uu.net!peer-uk.news.demon.net!
kibo.news.demon.net!news.demon.co.uk!demon!clintsmc.demon.co.uk!clint
From: Clint Sharp <clint@clintsmc.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF Amplifier
Date: Sun, 16 Sep 2007 11:26:46 +0100
Organization: Little
Lines: 50
Message-ID: <4hnWsaUmTQ7GFweM@clintsmc.demon.co.uk>
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
 <XOiGi.2694$282.2627@trnddc01>
 <1189725503.848432.236840@o80g2000hse.googlegroups.com>
 <aiije35de82ctpjnpd64f1cicrpleek9k2@4ax.com> <wxkGi.13979$bf1.6741@trnddc04>
 <hX9wBcBKbj6GFwmS@clintsmc.demon.co.uk> <HDIGi.1210$ec2.57@trnddc03>
 <$uZnPFDYj66GFw36@clintsmc.demon.co.uk> <GrZGi.4808$re2.2372@trnddc02>
NNTP-Posting-Host: clintsmc.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1189941691 23803 62.49.16.63 (16 Sep 2007 11:21:31 GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Sun, 16 Sep 2007 11:21:31 +0000 (UTC)
User-Agent: Turnpike/6.05-S (<KS5L$xUPcv7FxK87cl8LbGOc4S>)
Xref: g2news2.google.com rec.radio.amateur.homebrew:1013

In message <GrZGi.4808$re2.2372@trnddc02>, Dale Parfitt
<par@parelectronics.com> writes
>The point Clint, is that other amps in its price range appear to have high
>failure rates, while the SPE has zero failure rates to date. This comes down
>to good engineering.
100% agreement about good engineering bringing ruggedness and I know
good quality parts are rarely cheap but I still think it's a lot of
money for a bunch of features I probably never knew I needed, it seems
an awful lot of power too, I'd question if I would ever *need* that sort
of power. (No comments about making a market for filters either ;-))

Something that's always served me well is the knowledge that price does
not indicate quality and manufacturer's will price things at what they
think the market will bear rather than the item's worth. I wonder how
many of the 'competing' products are badly designed or just overpriced
because of the name on the front (I.E. of adequate design but high
priced because of the marketing)
>As for homebrewing, in the past couple of years I've built 2 water cooled
>1296 amps and now a 400W solid state 1296 amp. Here's a shot of a recent all

```
>mode (including sync AM) HF RX with DDS VFO (this is 100% homebrew, not an
>Elecraft):
>http://www.elecraft.com/PictureGallery/NewPics2/w4op_rx_ec2.jpg
Very nice, any more details, specs, schematics available? Internal pics
would be interesting as well, looks nice and clean with a simple user
interface.
Currently assembling the parts (slowly) to build PicaStar II and
enjoying playing with DDS chips immensely for all sorts of little
projects.  Was it your design and/or could I find it on the web to learn
from?

Please don't misunderstand me, I wasn't questioning your technical
ability but was wondering why you'd need to spend $4000+ on something
that holds your hand to such a high level. I like reliable equipment as
much as the next man but that amp seems *very* expensive.
>so please don't talk to me about homebrewing.
I'd talk with you... Always willing to learn and share knowledge.
> I build what I want and buy
>what I want.
I dream of buying what I want (but whenever I have bought black boxes,
I've been left feeling 'empty' afterwards) and build what I can't afford
to buy ready made (most things, I have a young family) in what little
spare time I have.
>Dale W4OP
>

>
>

--
Clint Sharp


From -7084873624129842364
X-Google-Thread: fc2a5,9a5f693c6203f953,start
X-Google-Thread: 112d1e,9a5f693c6203f953,start
X-Google-Thread: f64c6,9a5f693c6203f953,start
X-Google-Attributes: gidfc2a5,gid112d1e,gidf64c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!newsfeed.esat.net!
feeder.news.heanet.ie!feed4.jnfs.ja.net!jnfs.ja.net!xara.net!gxn.net!
194.159.246.34.MISMATCH!peer-uk.news.demon.net!kibo.news.demon.net!
news.demon.co.uk!demon!not-for-mail
From: "Andrew Holme" <andrew@nospam.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design,uk.radio.amateur
Subject: Wireless Engineer, September 1936
Date: Sun, 16 Sep 2007 19:23:45 +0100
Lines: 9
Message-ID: <fcjsas$1me$1$8300dec7@news.demon.co.uk>
NNTP-Posting-Host: holmea.demon.co.uk
X-Trace: news.demon.co.uk 1189967004 1742 80.177.105.226 (16 Sep 2007 18:23:24
GMT)
X-Complaints-To: abuse@demon.net
```

NNTP-Posting-Date: Sun, 16 Sep 2007 18:23:24 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-Priority: 3
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.homebrew:1014
sci.electronics.design:38029 uk.radio.amateur:15057

Can anyone help me obtain a copy of the following reference?

"A Portable Duplex Radio-Telephone," Lewis and Milner,
Wireless Engineer, 13:475-482, September 1936.

Thanks,
Andrew Holme.

From -6396666584593224941
X-Google-Thread: fc2a5,9a5f693c6203f953
X-Google-Thread: 112d1e,9a5f693c6203f953
X-Google-Thread: f64c6,9a5f693c6203f953
X-Google-Attributes: gidfc2a5,gid112d1e,gidf64c6,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!feeder.news-service.com!news2.euro.net!news-in.ntli.net!
newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe4-win.ntli.net.POSTED!53ab2750!not-for-mail
From: "Brian Reay" <see@website.invalid>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design,uk.radio.amateur
References: <fcjsas$1me$1$8300dec7@news.demon.co.uk>
Subject: Re: Wireless Engineer, September 1936
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <PzeHi.1061$X%4.17@newsfe4-win.ntli.net>
Date: Sun, 16 Sep 2007 18:26:55 GMT
NNTP-Posting-Host: 81.107.199.125
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe4-win.ntli.net 1189967215 81.107.199.125 (Sun, 16 Sep 2007 19:26:55
BST)
NNTP-Posting-Date: Sun, 16 Sep 2007 19:26:55 BST
Organization: Virgin Net Usenet Service
Xref: g2news2.google.com rec.radio.amateur.homebrew:1015
sci.electronics.design:38032 uk.radio.amateur:15058

"Andrew Holme" <andrew@nospam.com> wrote in message
news:fcjsas$1me$1$8300dec7@news.demon.co.uk...

> Can anyone help me obtain a copy of the following reference?
>
> "A Portable Duplex Radio-Telephone," Lewis and Milner,
> Wireless Engineer, 13:475-482, September 1936.

Try RSGB HQ, they have quite a large collection of old magazines.

--
73
Brian, G8OSN
www.g8osn.org.uk

Now your amateur licence is free, why not send at least �15 per year to
support the
Radio Communications Foundation or STELAR?

```
From 278529643655894448
X-Google-Thread: fc2a5,9a5f693c6203f953
X-Google-Thread: 112d1e,9a5f693c6203f953
X-Google-Thread: f64c6,9a5f693c6203f953
X-Google-Attributes: gidfc2a5,gid112d1e,gidf64c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 16 Sep 2007 14:54:16 -0500
Date: Sun, 16 Sep 2007 20:54:10 +0100
From: Steve <no-one@home.here>
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design,uk.radio.amateur
Subject: Re: Wireless Engineer, September 1936
References: <fcjsas$1me$1$8300dec7@news.demon.co.uk>
In-Reply-To: <fcjsas$1me$1$8300dec7@news.demon.co.uk>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <adudnbklJux1FHDbnZ2dnUVZ8qydnZ2d@pipex.net>
Lines: 8
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 83.67.79.151
X-Trace: sv3-
dKEj7NNVUvbpP0XvJQjtKYrKvanpT3qEB9GeXPAioDuJW7ZdPkza8ejUG9ROxBkE+i5pfc+ydhmAIPS!
i6CN88HugY2kNEe23flrtm0MPfuAIeuK710boE1Fzfb3XHdP9kDudJdSihP6LrY6Mc+ALPYqLq0J!
yl0twQ3s89lAYP2f537O3Qw=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:1016
sci.electronics.design:38068 uk.radio.amateur:15077

Andrew Holme wrote:
> Can anyone help me obtain a copy of the following reference?
>
> "A Portable Duplex Radio-Telephone," Lewis and Milner,
> Wireless Engineer, 13:475-482, September 1936.

Try your local library - they have access to the national archives.

Steve

From -4440915543308190845
X-Google-Thread: fcc6e,3880df03c35612d0,start
X-Google-Thread: 11480d,3880df03c35612d0,start
X-Google-Thread: 108122,3880df03c35612d0,start
X-Google-Thread: fc2a5,3880df03c35612d0,start
X-Google-Thread: 10b9c8,3880df03c35612d0,start
X-Google-Attributes: gidfcc6e,gid11480d,gid108122,gidfc2a5,gid10b9c8,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!transit4.readnews.com!news-
out.readnews.com!news-xxxfer.readnews.com!panix!rri.panix.com!robomod!not-for-mail
From: rram@panix.com (rec.radio.info Admin)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.info
Subject: Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*
Followup-To: poster
Date: Sun, 16 Sep 2007 17:52:57 EDT
Organization: rec.radio.info Moderation Team
Lines: 30
Approved: RRI Admin <rec-radio-info-request@panix.com>
Message-ID: <fck8h8$44j$1@reader1.panix.com>
Reply-To: rec-radio-info-request@panix.com (rec.radio.info Admin)
NNTP-Posting-Host: panix1.panix.com
X-Trace: reader1.panix.com 1189979579 13951 166.84.1.1 (16 Sep 2007 21:52:59 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 16 Sep 2007 21:52:59 +0000 (UTC)
X-RRI-Policy: http://www.panix.com/~rram/usenet/rri/index.html
X-RRI-Info-1: Send submissions to   rec-radio-info@panix.com
X-RRI-Info-2: Send technical complaints to   rec-radio-info-request@panix.com
X-RRI-Info-3: Send complaints about policy to rec-radio-info-request@panix.com
X-Comment-1: The moderators do not necessarily agree or disagree with this
article.
X-Comment-2: Moderators do not verify the accuracy of posted information.
X-Comment-3: Acceptance does not convey approval of any external references.
X-Robomod: STUMP, ichudov@algebra.com (Igor Chudov), C++/Perl/Unix Consulting
X-Moderation-1: Hassle-Free commercial hosting of moderation sites available
X-Moderation-2: See http://www.algebra.com/~ichudov/stump
X-Original-Bytes: 2930

Xref: g2news2.google.com rec.radio.amateur.antenna:5761 rec.radio.amateur.dx:197
rec.radio.amateur.equipment:903 rec.radio.amateur.homebrew:1017 rec.radio.info:252

The rec.radio.info newsgroup, first established in 1993, has been recently revived by an active moderation team. We are currently seeking suitable information, FAQ, and bulletin articles from the entire rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our newsgroup.

We are seeking a replacement maintainer for the following information bulletin formerly posted to rec.radio.amateur.* (and currently archived at http://www.faqs.org/faqs/radio/personal-intro/):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this article updated and automatically posted again at a regular interval. This would include establishing contact with the original maintainer for any necessary permissions. We would prefer to seek a new, dedicated maintainer at this time, rather than start auto-posting the original article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.

From 6489749238797233920
X-Google-Thread: fc2a5,a2eec9bb6a24a9df
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews7.bellsouth.net.POSTED!477e0aba!not-for-mail
From: Ted <kilocycles@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF finals from PC monitor boards?
Reply-To: kilocycles_at_yahoo_dot_com
Message-ID: <0jare3t82uqqh2ugaq34956ekoc2n3ussv@4ax.com>
References: <1185730502.849368.23240@q75g2000hsh.googlegroups.com>
<46acff24$0$21204$5fc30a8@news.tiscali.it>
<1185812712.061221.147980@q75g2000hsh.googlegroups.com>
<13asq0jr2914k7f@corp.supernews.com>
<1189452885.378355.172450@r29g2000hsg.googlegroups.com>
<13elvl25aikir53@corp.supernews.com>

X-Newsreader: Forte Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 63
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
enggpaojkliedbjjdbdpiflmbcekedmfhojhikkbagflhcbomlnfnhjchmbdgkffkaikhjbiabbhpmplok
ompnccapjgkdbfjjghnelkageagdaehfmjcikamagghflckpidomjdjlblmogloeomkodahofdbbfo
NNTP-Posting-Date: Sun, 16 Sep 2007 18:10:24 EDT
Organization: BellSouth Internet Group
Date: Sun, 16 Sep 2007 18:13:10 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:1018

On Fri, 14 Sep 2007 23:37:57 +0100, Chris Jones
<lugnut808@nospam.yahoo.com> wrote:

> spamhog@gmail.com wrote:
>
>>
>> I already found something, thinking a bit sideways: these SS devices
>> impressed me more on the current- than on the voltage handling side.
>> I reckoned that scaling to higher powers was mostly done in current,
>> so I headed for a low power video unit I had: a long deceased bible-
>> sized 1970's TV + radio combo, with a 2" B/W screen. As suspected, I
>> found 2-3W low capacitance bipolars that could run into VHF... so
>> much so I had to bead them to keep them from producing spurs in my
>> ugly prototype.
>>
>>
>>
>> On Jul 30, 11:37 pm, Chris Jones <lugnut...@nospam.yahoo.com> wrote:
>>
>>> 2SB772 (PNP) and 2SD882 (NPN) (10-Watt 30V, 3A, fT>80MHz)
>>
>>> The video amplifiers in a monitor have to be pretty fast for high
>>> resolution
>>> signals, and often these are discrete transistors to handle the power. I
>>> got some 2SC2682 devices out of monitors - 180V, 3.2pF, fT=200MHz, 10W -
>>> a few of these could make a useful amount of RF, I reckon.
>>
>>
>> Hmmmm.... I'll look harder. The pile of monitors is still there
>> gracing a hidden nook of my place.
>>
>> W.r.t. the high definition requiring high frequency: KVM switches
>> often quote their bandwidth, which must match what^s required from a
>> given definition (if a KVM only quotes that, and not pixels, good luck
>> finding the equivalents). Bandwidths now run in the 200-300MHz range,
>> which is a good omen.
>>
>> Where would such transistors be?

```
>>
>> In the vicinity of the HV coil?
>>
>> Or near the CRT cathode?
>
>The video amplifiers are normally on the PCB that plugs directly onto the
>back of the tube.  The unusual thing about those transistors is that they
>are moderately fast and also capable of handling quite high voltage.
>
>Chris

I pulled parts from 17" Viewsonic/Optiquest, and I found a treasure
trove of parts.  The horizontal deflection amp is a VPS10S 3-channel
module (each indentical)  tested at 100MHz.  The data sheet is on
www.datasheet catalog.com. Vcc is 80 or 90 Volts, but Ic is only 75
mA.  It's the only heavy-duty-looking thing on the board that mounts
on the CRT.

However, that monitor' shielding cages would be perfect for tube RF
cages, and there are a lot of large sections of it; a couple of square
feet, at least. The video amp is an LM1205N, 3 channel 28 pin device.
It apparently drives 3 2SC1921s, 200 V Vceo, 50mA, 600 mW, Ft=130
devices.  Lots of C0G and Z7R decoupling caps on all the boards.  This
is a 1997 vintage monitor, and it was a good'un.



From 2105416249754983328
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news.astraweb.com!
router1.astraweb.com!not-for-mail
Date: Sun, 16 Sep 2007 20:38:56 -0600
From: Hank Zoeller <bogusaddress@dontbothernotvalid.com>
User-Agent: Thunderbird 1.5.0.8 (X11/20061204)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF Amplifier
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
<XOiGi.2694$282.2627@trnddc01>
<1189725503.848432.236840@o80g2000hse.googlegroups.com>
<aiije35de82ctpjnpd64f1cicrpleek9k2@4ax.com> <wxkGi.13979$bf1.6741@trnddc04>
<hX9wBcBKbj6GFwmS@clintsmc.demon.co.uk> <HDIGi.1210$ec2.57@trnddc03>
<$uZnPFDYj66GFw36@clintsmc.demon.co.uk> <GrZGi.4808$re2.2372@trnddc02>
In-Reply-To: <GrZGi.4808$re2.2372@trnddc02>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 11
Message-ID: <0139047b$0$20284$c3e8da3@news.astraweb.com>
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 5d4d4156.news.astraweb.com
X-Trace: DXC=Fi2Rb:m=IE8J0Z]=gbPP29L?
```

```
0kYOcDh@:^nJe[DYEXo0WFhLlUnVW10]dXBG9d0XE<neJ@ER0nCH8HFMPKh16A6=
Xref: g2news2.google.com rec.radio.amateur.homebrew:1019
```

Dale Parfitt wrote:
> Here's a shot of a recent all
> mode (including sync AM) HF RX with DDS VFO (this is 100% homebrew

Dale,

Very nice work!   How do you do the labels on the front panel?

--
73,
HZ

```
From 8821994781182322177
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc07.POSTED!d89a2db8!not-for-mail
From: "Dale Parfitt" <parinc@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
<XOiGi.2694$282.2627@trnddc01>
<1189725503.848432.236840@o80g2000hse.googlegroups.com>
<aiije35de82ctpjnpd64f1cicrpleek9k2@4ax.com> <wxkGi.13979$bf1.6741@trnddc04>
<hX9wBcBKbj6GFwmS@clintsmc.demon.co.uk> <HDIGi.1210$ec2.57@trnddc03>
<$uZnPFDYj66GFw36@clintsmc.demon.co.uk> <GrZGi.4808$re2.2372@trnddc02>
<0139047b$0$20284$c3e8da3@news.astraweb.com>
Subject: Re: HF Amplifier
Lines: 25
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <b_yHi.11930$mk2.871@trnddc07>
Date: Mon, 17 Sep 2007 17:40:23 GMT
NNTP-Posting-Host: 63.19.190.222
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc07 1190050823 63.19.190.222 (Mon, 17 Sep 2007 13:40:23 EDT)
NNTP-Posting-Date: Mon, 17 Sep 2007 13:40:23 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:1020
X-Original-Bytes: 1881
```

"Hank Zoeller" <bogusaddress@dontbothernotvalid.com> wrote in message
news:0139047b$0$20284$c3e8da3@news.astraweb.com...
> Dale Parfitt wrote:
>> Here's a shot of a recent all mode (including sync AM) HF RX with DDS VFO

>> (this is 100% homebrew
>
> Dale,
>
> Very nice work!   How do you do the labels on the front panel?
>
> --
> 73,
> HZ

Hi Hank,
Those were done with dry transfer because no graphics were involved.
Normally I use water slip decals where the artwork is done in my CAD package
and then printed onto the water slip decal paper. This is great as it allows
for complex graphics and color if required.

73,
Dale W4OP

From -8224890537114598111
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news.astraweb.com!
border2.newsrouter.astraweb.com!not-for-mail
Date: Mon, 17 Sep 2007 13:48:41 -0600
From: Hank Zoeller <bogusaddress@dontbothernotvalid.com>
User-Agent: Thunderbird 1.5.0.8 (X11/20061204)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF Amplifier
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
<XOiGi.2694$282.2627@trnddc01>
<1189725503.848432.236840@o80g2000hse.googlegroups.com>
<aiije35de82ctpjnpd64f1cicrpleek9k2@4ax.com> <wxkGi.13979$bf1.6741@trnddc04>
<hX9wBcBKbj6GFwmS@clintsmc.demon.co.uk> <HDIGi.1210$ec2.57@trnddc03>
<$uZnPFDYj66GFw36@clintsmc.demon.co.uk> <GrZGi.4808$re2.2372@trnddc02>
<0139047b$0$20284$c3e8da3@news.astraweb.com> <b_yHi.11930$mk2.871@trnddc07>
In-Reply-To: <b_yHi.11930$mk2.871@trnddc07>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 26
Message-ID: <46eed9f9$0$8634$c3e8da3@news.astraweb.com>
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 710af69e.news.astraweb.com
X-Trace: DXC=WDgAmQ<`iZ@\kdljK^UWoEL?0kYOcDh@JKd]:?
oPkEYGkMaffjk:jfLL`_@n9kh1mDP`JMmceD?ZA9BnfKn;iZ7A
Xref: g2news2.google.com rec.radio.amateur.homebrew:1021

Dale Parfitt wrote:

> Normally I use water slip decals where the artwork is done in my CAD package
> and then printed onto the water slip decal paper.

Would you do one decal that fit the entire front panel or individual decals for each control? I've been wondering how individual decals would look. It would *seem* (no experience here) that individual decals would be prominent and therefor less attractive.

Are decals best when placed on a matt finish or a glossy finish? (I usually use black or dark gray.) Do you lay on a clear coat after applying the decal(s)?

I like the idea of using a CAD package to design decals. Most of my stuff is one-off and silk screening seems like an extravagance.

Where do you get your decal paper? Is it compatible with laser or ink jet? My laser is color, using a dye sublimation process. Essentially, it melts colored bits of wax onto the paper. I'm not sure it will work for decals as it uses both heat and pressure to fuse the wax. May have to use the XYL's inkjet..

Thanks for the info.

--
73,
HZ

From -3750593473736327612
X-Google-Thread: fc2a5,e7dfd2f71c782c00
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.phx!newsfe16.phx.POSTED!53ab2750!not-for-mail
From: "The Shadow" <Repose@Zilch.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1189557608.222882.157530@50g2000hsm.googlegroups.com>
Subject: Re: HF Amplifier
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <a5CHi.36798$L_7.6068@newsfe16.phx>
Date: Mon, 17 Sep 2007 14:12:38 -0700
NNTP-Posting-Host: 72.197.13.209
X-Complaints-To: admin@cox.net
X-Trace: newsfe16.phx 1190063558 72.197.13.209 (Mon, 17 Sep 2007 14:12:38 MST)
NNTP-Posting-Date: Mon, 17 Sep 2007 14:12:38 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:1022

"Harry7" <cpa599@gmail.com> wrote in message
news:1189557608.222882.157530@50g2000hsm.googlegroups.com...
> Can anyone point me to plans for a solid state HF (1.8 - 30 mc) Amp 10
> - 15 watts drive 300-1000 watts out.
>

Maybe see QST October 2007 issue -- page 72 a 600W HF Amplifier
Also QST June 2006

The Shadow

From 5157568937053761339
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,ac7ab302c0e63249,start
X-Google-Thread: fc2a5,ac7ab302c0e63249,start
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news2.arglkargh.de!
news.tornevall.net!not-for-mail
From: "Radioisfun" <radioisfun@home.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re:Telstar Electronics VoiceMax IS GARBAGE!
Date: Tue, 18 Sep 2007 12:15:56 -0400
Organization: TornevallNET - http://news.tornevall.net
Lines: 6
Message-ID: <fcoss0$e31$1@stable.tornevall.net>
References: <1190121132.973423.125160@d55g2000hsg.googlegroups.com>
NNTP-Posting-Host: 8a5b3737e9d870ce9755c7d78b0cd2b4
X-Trace: 9b6e6df3fa24f4bb56a0deccf0e31e7f
X-Complaints-To: abuse@tornevall.net
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-Validate-Post: http://news.tornevall.net/validate.php?
trace=9b6e6df3fa24f4bb56a0deccf0e31e7f
X-Posting-User: 1ca0af0374edae312054ffa52095f0bd
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.cb:3775 rec.radio.amateur.equipment:910
rec.radio.amateur.homebrew:1023

IDIOT!
"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
news:1190121132.973423.125160@d55g2000hsg.googlegroups.com...
> Don't waste any more money

From 8124683928765532447
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!news.tornevall.net!not-for-mail
From: "Radioisfun" <radioisfun@home.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Telstar Electronics VoiceMax IS GARBAGE!
Date: Tue, 18 Sep 2007 12:19:00 -0400
Organization: TornevallNET - http://news.tornevall.net
Lines: 6
Message-ID: <fcot1n$e72$1@stable.tornevall.net>
References: <1189531907.877808.176710@r34g2000hsd.googlegroups.com>
<fc6koh$dv9$1@stable.tornevall.net>
<1189704966.569281.313610@22g2000hsm.googlegroups.com>
<580me3dpt44nah80qk63c45otnlhntick4@4ax.com>
<1190119260.907695.198810@g4g2000hsf.googlegroups.com>
NNTP-Posting-Host: 29600dcba38f64502d7f7f4b7dfa1c90
X-Trace: e4280f00c75095f0590ffb0de14a4d60
X-Complaints-To: abuse@tornevall.net
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-Validate-Post: http://news.tornevall.net/validate.php?trace=e4280f00c75095f0590ffb0de14a4d60
X-Posting-User: 1ca0af0374edae312054ffa52095f0bd
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.cb:3776 rec.radio.amateur.equipment:911 rec.radio.amateur.homebrew:1024

IDIOT!

"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message news:1190119260.907695.198810@g4g2000hsf.googlegroups.com...

From -4847386283205285507
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!news.astraweb.com!router1.astraweb.com!jumlers.com!not-for-mail
From: Jason Haywood <G7kpm@user.jumlers.com>
Subject: Re: USB (the other one!) A2D converters?

```
Message-ID: <3zyst54ghj17qrfm@jumlers.com>
Remarks-Start: ------------ ABUSE DETAILS ------------
Abuse-Complaints-To: abuse@jumlers.com
Jumlers-poster-ip: 81.108.118.136
Remarks-end-h: --------------------------------------
Organization: Jumlers.com
Content-Type: text/plain; charset="utf-8"; format=flowed
References: <1186418702.326011.208670@r34g2000hsd.googlegroups.com>
In-Reply-To: <1186418702.326011.208670@r34g2000hsd.googlegroups.com>
Newsgroups: rec.radio.amateur.homebrew
Date: 18 Sep 2007 16:51:01 GMT
Lines: 19
NNTP-Posting-Host: 77.232.77.100
X-Trace: 1190134261  2660 77.232.77.100:33529
X-Complaints-To: abuse@jumlers.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:1025
```

--
Via: http://www.jumlers.com/rec.radio.amateur.homebrew/

If I can throw in my two-penny-worth...

I have dealt with Mirrorbow Electronics, purchased their USB IO board and it does exactly as advertised. their technical support is 100%, delivery is very quick and overall service is second to none! I have no hesitation in recommending them to anyone. I only wish some other companies would take a leaf out of Mirrorbows book for customer service!

Off my soap box now...

73s, Jason G7KPM

```
From -5427550533817222648
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
From: "john lyon" <john.lyon@nospamhere.co.uk>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <1189531907.877808.176710@r34g2000hsd.googlegroups.com>
<fc6koh$dv9$1@stable.tornevall.net>
<1189704966.569281.313610@22g2000hsm.googlegroups.com>
<580me3dpt44nah80qk63c45otnlhntick4@4ax.com>
<1190119260.907695.198810@g4g2000hsf.googlegroups.com>
<fcot1n$e72$1@stable.tornevall.net>
Subject: Re: Telstar Electronics VoiceMax IS GARBAGE!
```

Date: Tue, 18 Sep 2007 22:40:24 +0100
Lines: 34
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com>
X-Original-NNTP-Posting-Host: 79.73.72.30
NNTP-Posting-Host: mk-nntp-2.news.uk.tiscali.com
X-Trace: 18 Sep 2007 22:40:48 +0100, mk-nntp-2.news.uk.tiscali.com
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed1.ip.tiscali.net!tiscali!newsfeed2.ip.tiscali.net!212.74.112.120.MISMATCH!mk-nntp-1.news.uk.tiscali.com!mk-nntp-2.news.uk.tiscali.com
Xref: g2news2.google.com rec.radio.cb:3788 rec.radio.amateur.equipment:916 rec.radio.amateur.homebrew:1026

"Radioisfun" <radioisfun@home.com> wrote in message
news:fcot1n$e72$1@stable.tornevall.net...
> IDIOT!
>
> "Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
> news:1190119260.907695.198810@g4g2000hsf.googlegroups.com...
>

We know, it has been ripped apart on this newsgroup a few times. It's not a good product. If fitted without using the correct alignment procedures and test equipment it will ruin performance and cause splattering over the bands and generate harmonics. Not many people who have the "really loud = really far" mentality will know how to use test equipment, they tend to be the ones with a lack of knowledge. Maybe the type who believe polishing the aerial will lower the VSWR!
The circuit has no RF filtering for a start, it is not screened in any way, it has a light that you will never see once the radio is put back together and it will have no benefit over the microphone that was designed to operate with the radio. It will cause distortion and harmonics unless the radio is realigned using test gear. If you use that on AM/SSB you will sound terrible, it is a waste of time. There is no way that the circuit differentiates between a voice and background noises, so raising the level many times and keeping it at 100% will mean that the sound will just be a "noise". Compare that to a normal mic, audio nearer to it such as the operator voice will be louder than what is in the background.
The product is out of date, has no market and probably would have been better 20+ years ago.

I certainly wouldn't recommend it, from a radio engineers point of view.

```
From -4201137133084691511
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!
nx02.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-
mail
From: "AUUDDIIOOO" <j@tx.rr.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <1189531907.877808.176710@r34g2000hsd.googlegroups.com>
<fc6koh$dv9$1@stable.tornevall.net>
<1189704966.569281.313610@22g2000hsm.googlegroups.com>
<580me3dpt44nah80qk63c45otnlhntick4@4ax.com>
<1190119260.907695.198810@g4g2000hsf.googlegroups.com>
<fcot1n$e72$1@stable.tornevall.net> <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com>
Subject: Re: Telstar Electronics VoiceMax IS GARBAGE!
Date: Tue, 18 Sep 2007 17:30:03 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Lines: 44
Message-ID: <46f05178$0$18942$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.cb:3789 rec.radio.amateur.equipment:917
rec.radio.amateur.homebrew:1027


"john lyon" <john.lyon@nospamhere.co.uk> wrote in message
news:46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com...
>
> "Radioisfun" <radioisfun@home.com> wrote in message
> news:fcot1n$e72$1@stable.tornevall.net...
>> IDIOT!
>>
>> "Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
>> news:1190119260.907695.198810@g4g2000hsf.googlegroups.com...
>>
>
> We know, it has been ripped apart on this newsgroup a few times.  It's not
> a good product.  If fitted without using the correct alignment procedures
> and test equipment it will ruin performance and cause splattering over the
> bands and generate harmonics.  Not many people who have the "really loud =
> really far" mentality will know how to use test equipment, they tend to be
> the ones with a lack of knowledge.  Maybe the type who believe polishing
> the aerial will lower the VSWR!
> The circuit has no RF filtering for a start, it is not screened in any
> way, it has a light that you will never see once the radio is put back
```

> together and it will have no benefit over the microphone that was designed
> to operate with the radio. It will cause distortion and harmonics unless
> the radio is realigned using test gear. If you use that on AM/SSB you
> will sound terrible, it is a waste of time. There is no way that the
> circuit differentiates between a voice and background noises, so raising
> the level many times and keeping it at 100% will mean that the sound will
> just be a "noise". Compare that to a normal mic, audio nearer to it such
> as the operator voice will be louder than what is in the background.
> The product is out of date, has no market and probably would have been
> better 20+ years ago.
>
> I certainly wouldn't recommend it, from a radio engineers point of view.
>
>
>
>

Just like so called Engineers, your a dumb ass John.
Your are an Engineer? What a Trash truck radio Engineer?

There is a noise gate built in. Read his Good web site.
Just wondered on what happened to the Power amp He had.

From 3761760760219870650
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!y42g2000hsy.googlegroups.com!not-for-mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: What happened to the SkyWave 2879ABTC?
Date: Wed, 19 Sep 2007 05:55:10 -0700
Organization: http://groups.google.com
Lines: 12
Message-ID: <1190206510.490666.56380@y42g2000hsy.googlegroups.com>
References: <1189531907.877808.176710@r34g2000hsd.googlegroups.com>
   <fc6koh$dv9$1@stable.tornevall.net>
   <1189704966.569281.313610@22g2000hsm.googlegroups.com>
   <580me3dpt44nah80qk63c45otnlhntick4@4ax.com>
   <1190119260.907695.198810@g4g2000hsf.googlegroups.com>
   <fcot1n$e72$1@stable.tornevall.net>
   <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com>
   <46f05178$0$18942$4c368faf@roadrunner.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1190206510 20151 127.0.0.1 (19 Sep 2007 12:55:10 GMT)
X-Complaints-To: groups-abuse@google.com

```
NNTP-Posting-Date: Wed, 19 Sep 2007 12:55:10 +0000 (UTC)
In-Reply-To: <46f05178$0$18942$4c368faf@roadrunner.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y42g2000hsy.googlegroups.com; posting-host=216.203.30.4;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.cb:3806 rec.radio.amateur.equipment:918
rec.radio.amateur.homebrew:1028
```

On Sep 18, 5:30 pm, "AUUDDIIOOO" <j...@tx.rr.com> wrote:

> Just wondered on what happened to the Power amp He had.

The SkyWave 2879ABTC was discontinued because of a poor profit margin.
We hated to do it... but with the temperature compensating biasing...
and all the premium components and chassis... it was just too costly
to manufacture. Unlike other companies, we will discontinue a product
before we will cost reduce it to a point that sacrafices quality and
reliability. Sometimes I just go back and look at the photos... just
for old times sake... http://www.telstar-electronics.com/default_files/
SkyWave2879ABTCPhoto.htm
www.telstar-electronics.com

```
From -6194930451950250 11
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.trueband.net!
news.trueband.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 19 Sep 2007 09:04:21 -0500
From: Wes Stewart <n7ws*@*yahoo.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Telstar Electronics VoiceMax IS GARBAGE!
Date: Wed, 19 Sep 2007 07:05:35 -0700
Message-ID: <uja2f31pgreo56o3gtn1gtfrs42t2f3g0q@4ax.com>
References: <1189531907.877808.176710@r34g2000hsd.googlegroups.com>
<fc6koh$dv9$1@stable.tornevall.net>
<1189704966.569281.313610@22g2000hsm.googlegroups.com>
<580me3dpt44nah80qk63c45otnlhntick4@4ax.com>
<1190119260.907695.198810@g4g2000hsf.googlegroups.com>
<fcot1n$e72$1@stable.tornevall.net> <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com>
X-Newsreader: Forte Free Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 48
X-Usenet-Provider: http://www.giganews.com
```

NNTP-Posting-Host: 4.240.244.88
X-Trace: sv3-I25bkIB3NOcCmnzgpgYbbn3Z757aGi3yrGFBpe95AKFPS5hwZCM9tpWb8Nj/
Y1f+X7HLQFc9vA2ObPD!
Sn4oZk1WZdNPcP68gPHGT83tmtcuxFPC+DBUAV9lAy8r37jzrBbkWjc0PiHU94dSSIS1Zx11fewE!
BXcvqBjDuGm9RaEoHnqaIE0zhidm
X-Complaints-To: abuse@trueband.net
X-DMCA-Complaints-To: abuse@trueband.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.cb:3811 rec.radio.amateur.equipment:919 rec.radio.amateur.homebrew:1029

On Tue, 18 Sep 2007 22:40:24 +0100, "john lyon"
<john.lyon@nospamhere.co.uk> wrote:

>
>"Radioisfun" <radioisfun@home.com> wrote in message
>news:fcot1n$e72$1@stable.tornevall.net...
>> IDIOT!
>>
>> "Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
>> news:1190119260.907695.198810@g4g2000hsf.googlegroups.com...
>>
>
>We know, it has been ripped apart on this newsgroup a few times. It's not a
>good product. If fitted without using the correct alignment procedures and
>test equipment it will ruin performance and cause splattering over the bands
>and generate harmonics. Not many people who have the "really loud = really
>far" mentality will know how to use test equipment, they tend to be the ones
>with a lack of knowledge. Maybe the type who believe polishing the aerial
>will lower the VSWR!
>The circuit has no RF filtering for a start, it is not screened in any way,
>it has a light that you will never see once the radio is put back together
>and it will have no benefit over the microphone that was designed to operate
>with the radio. It will cause distortion and harmonics unless the radio is
>realigned using test gear. If you use that on AM/SSB you will sound
>terrible, it is a waste of time. There is no way that the circuit
>differentiates between a voice and background noises, so raising the level
>many times and keeping it at 100% will mean that the sound will just be a
>"noise". Compare that to a normal mic, audio nearer to it such as the
>operator voice will be louder than what is in the background.
>The product is out of date, has no market and probably would have been
>better 20+ years ago.
>
>I certainly wouldn't recommend it, from a radio engineers point of view.

I was composing a point-by-point response to this when I had a power failure and lost it. I'm not about to redo it, but let me summarize.

I am no fan of Telstar and his spam marketing on these groups and many of his claims are BS.

That said, you seem to know little more about the subject than does he.

BTW, to see the performance of this thing without the hype:

http://www.analog.com/en/prod/0,2877,SSM2167,00.html

```
From 1326932444053650830
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r29g2000hsg.googlegroups.com!not-for-
mail
From:  Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Telstar Electronics VoiceMax
Date: Wed, 19 Sep 2007 08:28:58 -0700
Organization: http://groups.google.com
Lines: 11
Message-ID: <1190215738.351609.256920@r29g2000hsg.googlegroups.com>
References: <1189531907.877808.176710@r34g2000hsd.googlegroups.com>
   <fc6koh$dv9$1@stable.tornevall.net>
   <1189704966.569281.313610@22g2000hsm.googlegroups.com>
   <580me3dpt44nah80qk63c45otnlhntick4@4ax.com>
   <1190119260.907695.198810@g4g2000hsf.googlegroups.com>
   <fcot1n$e72$1@stable.tornevall.net>
   <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com>
   <uja2f31pgreo56o3gtn1gtfrs42t2f3g0q@4ax.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1190215738 21908 127.0.0.1 (19 Sep 2007 15:28:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 19 Sep 2007 15:28:58 +0000 (UTC)
In-Reply-To: <uja2f31pgreo56o3gtn1gtfrs42t2f3g0q@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: r29g2000hsg.googlegroups.com; posting-host=216.203.30.4;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.cb:3812 rec.radio.amateur.equipment:920
rec.radio.amateur.homebrew:1030
```

On Sep 19, 9:05 am, Wes Stewart <n7ws*@*yahoo.com> wrote:

> I am no fan of Telstar and his spam marketing on these groups and many
> of his claims are BS.

> That said, you seem to know little more about the subject than does
> he.
> BTW, to see the performance of this thing without the hype:

Wes, I'm curious... what is this "hype" you are talking about? I would like to address that directly.
www.telstar-electronics.com

```
From 6703949316504317665
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!news.tornevall.net!
not-for-mail
From: "Radioisfun" <radioisfun@home.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Telstar Electronics VoiceMax IS GARBAGE!
Date: Wed, 19 Sep 2007 11:36:27 -0400
Organization: TornevallNET - http://news.tornevall.net
Lines: 6
Message-ID: <fcreto$eb7$1@stable.tornevall.net>
References: <1189531907.877808.176710@r34g2000hsd.googlegroups.com>
<fc6koh$dv9$1@stable.tornevall.net>
<1189704966.569281.313610@22g2000hsm.googlegroups.com>
<580me3dpt44nah80qk63c45otnlhntick4@4ax.com>
<1190119260.907695.198810@g4g2000hsf.googlegroups.com>
<fcot1n$e72$1@stable.tornevall.net>   <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com>
<uja2f31pgreo56o3gtn1gtfrs42t2f3g0q@4ax.com>
<1190215738.351609.256920@r29g2000hsg.googlegroups.com>
NNTP-Posting-Host: 1cb0ca2bcf23da1ebf850efc6c8eea57
X-Trace: 444ddaf348635e81839282e94bf03bd2
X-Complaints-To: abuse@tornevall.net
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-Validate-Post: http://news.tornevall.net/validate.php?
trace=444ddaf348635e81839282e94bf03bd2
X-Posting-User: 1ca0af0374edae312054ffa52095f0bd
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.cb:3813 rec.radio.amateur.equipment:921
rec.radio.amateur.homebrew:1031
```

IDIOT!

"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
news:1190215738.351609.256920@r29g2000hsg.googlegroups.com...

```
From 6845427018429341955
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!news.tornevall.net!
not-for-mail
From: "Radioisfun" <radioisfun@home.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: What happened to the Telstar Electronics SkyWave 2879ABTC CB
Amplifier? IT WAS GARBAGE TOO!
Date: Wed, 19 Sep 2007 11:38:10 -0400
Organization: TornevallNET - http://news.tornevall.net
Lines: 5
Message-ID: <fcrf10$egt$1@stable.tornevall.net>
References: <1189531907.877808.176710@r34g2000hsd.googlegroups.com>
<fc6koh$dv9$1@stable.tornevall.net>
<1189704966.569281.313610@22g2000hsm.googlegroups.com>
<580me3dpt44nah80qk63c45otnlhntick4@4ax.com>
<1190119260.907695.198810@g4g2000hsf.googlegroups.com>
<fcot1n$e72$1@stable.tornevall.net>   <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com>
<46f05178$0$18942$4c368faf@roadrunner.com>
<1190206510.490666.56380@y42g2000hsy.googlegroups.com>
NNTP-Posting-Host: fdaca2513d0ea578056c93ee41a44ad5
X-Trace: 5397ca022b916ba305a7097c51e9ee51
X-Complaints-To: abuse@tornevall.net
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-Validate-Post: http://news.tornevall.net/validate.php?
trace=5397ca022b916ba305a7097c51e9ee51
X-Posting-User: 1ca0af0374edae312054ffa52095f0bd
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.cb:3814 rec.radio.amateur.equipment:922
rec.radio.amateur.homebrew:1032
```

IDIOT
"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
news:1190206510.490666.56380@y42g2000hsy.googlegroups.com...

```
From 4794734545985891791
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
```

```
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 19 Sep 2007 12:42:50 -0500
Date: Wed, 19 Sep 2007 13:42:51 -0400
From: Deek <Deek@comcast.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.4) Gecko/20030624
Netscape/7.1 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Telstar Electronics VoiceMax IS GARBAGE!
References: <1189531907.877808.176710@r34g2000hsd.googlegroups.com>
<fc6koh$dv9$1@stable.tornevall.net>
<1189704966.569281.313610@22g2000hsm.googlegroups.com>
<580me3dpt44nah80qk63c45otnlhntick4@4ax.com>
<1190119260.907695.198810@g4g2000hsf.googlegroups.com>
<fcot1n$e72$1@stable.tornevall.net> <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com>
<46f05178$0$18942$4c368faf@roadrunner.com>
In-Reply-To: <46f05178$0$18942$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <1P6dncbkOq8HwmzbnZ2dnUVZ_ualnZ2d@comcast.com>
Lines: 60
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.128.231.189
X-Trace: sv3-RsMNw+TFNHheWvjJzyoUvz5l2l+E1tX1HmgfeF3EmbTp4p9jymF/
P3lvCIgH5+DJrsv6LxQXv9oK1NT!sC5/
LAzcfVIG0mTsEUtnsLZtjLunlpkPuDcXO8G8UQC+nmpBXa5LrhwhC2fdxPuFU31KaqZetcn1!
AGfCVl1FelqGl2MJhd+M0rEdGs78tG8=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.cb:3820 rec.radio.amateur.equipment:924
rec.radio.amateur.homebrew:1033
```

I conclude that the VOICEMAX issue has died, has had the funeral and now should be buried.

Those who advocate high distortion levels and poor quality signals can spend their $$$ and buy it.

Those who prefer low distortion and clean sounding signals won't.

Let the trip to the cemetery begin.

/s/ Deek

```
AUUDDIIOOO wrote:

> "john lyon" <john.lyon@nospamhere.co.uk> wrote in message
> news:46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com...
>
>>"Radioisfun" <radioisfun@home.com> wrote in message
>>news:fcot1n$e72$1@stable.tornevall.net...
>>
>>>IDIOT!
>>>
>>>"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
>>>news:1190119260.907695.198810@g4g2000hsf.googlegroups.com...
>>>
>>
>>We know, it has been ripped apart on this newsgroup a few times.  It's not
>>a good product.  If fitted without using the correct alignment procedures
>>and test equipment it will ruin performance and cause splattering over the
>>bands and generate harmonics.  Not many people who have the "really loud =
>>really far" mentality will know how to use test equipment, they tend to be
>>the ones with a lack of knowledge.  Maybe the type who believe polishing
>>the aerial will lower the VSWR!
>>The circuit has no RF filtering for a start, it is not screened in any
>>way, it has a light that you will never see once the radio is put back
>>together and it will have no benefit over the microphone that was designed
>>to operate with the radio.  It will cause distortion and harmonics unless
>>the radio is realigned using test gear.  If you use that on AM/SSB you
>>will sound terrible, it is a waste of time.  There is no way that the
>>circuit differentiates between a voice and background noises, so raising
>>the level many times and keeping it at 100% will mean that the sound will
>>just be a "noise".  Compare that to a normal mic, audio nearer to it such
>>as the operator voice will be louder than what is in the background.
>>The product is out of date, has no market and probably would have been
>>better 20+ years ago.
>>
>>I certainly wouldn't recommend it, from a radio engineers point of view.
>>
>>
>>
>>
>
>   Just like so called Engineers, your a dumb ass John.
> Your are an Engineer? What a Trash truck radio Engineer?
>
> There is a noise gate built in. Read his Good web site.
>  Just wondered on what happened to the Power amp He had.
>
>



From -5909509753130763423
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
```

X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 19 Sep 2007 12:58:53 -0500
Date: Wed, 19 Sep 2007 13:58:54 -0400
From: Deek <Deek@comcast.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.4) Gecko/20030624
Netscape/7.1 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Transceiver Speech Processor
References: <1189531907.877808.176710@r34g2000hsd.googlegroups.com>
<fc6koh$dv9$1@stable.tornevall.net>
<1189704966.569281.313610@22g2000hsm.googlegroups.com>
<580me3dpt44nah80qk63c45otnlhntick4@4ax.com>
<1190119260.907695.198810@g4g2000hsf.googlegroups.com>
<fcot1n$e72$1@stable.tornevall.net>   <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com>
<46f05178$0$18942$4c368faf@roadrunner.com>
<1P6dncbkOq8HwmzbnZ2dnUVZ_ualnZ2d@comcast.com>
<1190224283.719440.248950@y42g2000hsy.googlegroups.com>
In-Reply-To: <1190224283.719440.248950@y42g2000hsy.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <rrudnWIGeODA_mzbnZ2dnUVZ_szinZ2d@comcast.com>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.128.231.189
X-Trace: sv3-
SqXEK9KyEMLFfIUGRMpSIT3Jw+NXcKIp1OnN+Ba96UZ94gJhL2JAMPV9GzS+s0loPEODXPtI6xWS+JA!
sw/dG92onpM22f3AEiInlOGNN/BnYDWuXpcdkLotJPSzPzWlDxIy40p0EcxQ3BCtS3u+3mzIneyx!
SxO7vDyKOC/E4PeMsxXITI8/opv5fTo=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.cb:3824 rec.radio.amateur.equipment:927
rec.radio.amateur.homebrew:1035

Telstar Electronics wrote:

> On Sep 19, 12:42 pm, Deek <D...@comcast.net> wrote:
>
>>I conclude that the VOICEMAX issue has died, has had the funeral and now should
>>be buried.
>>Those who advocate high distortion levels and poor quality signals can spend
>>their $$$ and buy it.
>>Those who prefer low distortion and clean sounding signals won't.

>>Let the trip to the cemetery begin.
>
>
> Thanks for your conclusion. Maybe you should contact the engineers at
> Analog Devices and explain to them that their SSM2166 chip is just
> plain no good. I'm sure they'd be happy to hear from you... lol
> www.telstar-electonics.com
>

I'm sure they will acknowledge that it introduces controlled distortion.

```
From 8369033732133137777
X-Google-Thread: 106d41,ef16ea9c8c5f2617
X-Google-Thread: 108122,8105aab54ac8e943
X-Google-Thread: fc2a5,ac7ab302c0e63249
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 19 Sep 2007 13:19:34 -0500
Date: Wed, 19 Sep 2007 19:21:15 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Transceiver Speech Processor
References: <1189531907.877808.176710@r34g2000hsd.googlegroups.com>
<fc6koh$dv9$1@stable.tornevall.net>
<1189704966.569281.313610@22g2000hsm.googlegroups.com>
<580me3dpt44nah80qk63c45otnlhntick4@4ax.com>
<1190119260.907695.198810@g4g2000hsf.googlegroups.com>
<fcot1n$e72$1@stable.tornevall.net>   <46f045dc$1_3@mk-nntp-2.news.uk.tiscali.com>
<46f05178$0$18942$4c368faf@roadrunner.com>
<1P6dncbkOq8HwmzbnZ2dnUVZ_ualnZ2d@comcast.com>
<1190224283.719440.248950@y42g2000hsy.googlegroups.com>
<rrudnWIGeODA_mzbnZ2dnUVZ_szinZ2d@comcast.com>
In-Reply-To: <rrudnWIGeODA_mzbnZ2dnUVZ_szinZ2d@comcast.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <_-GdnUimqNKr9WzbnZ2dnUVZ8sqjnZ2d@pipex.net>
Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.103.211
X-Trace: sv3-MdiMysco6b14gEJettf20f/
Agp+Cw7mBaLuWUxzDjzIUpV+Q+d5KCzMIznJMPQVyzFCZafQ5b8w2suU!
J+YDnKp2mkYQqJroQSTtZeCi99V1Ak9KA92Aq5ZqfuD+A9o2KPQ2+ay4gl0Oh5dxe3nY5s6MiVgO!
GxZZWk7KqQyDN3ud4+S0sSmCf/g=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
```

```
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.cb:3826 rec.radio.amateur.equipment:929
rec.radio.amateur.homebrew:1037

Deek wrote:
> Telstar Electronics wrote:
>
>> On Sep 19, 12:42 pm, Deek <D...@comcast.net> wrote:
>>
>>> I conclude that the VOICEMAX issue has died, has had the funeral and
>>> now should
>>> be buried.
>>> Those who advocate high distortion levels and poor quality signals
>>> can spend
>>> their $$$ and buy it.
>>> Those who prefer low distortion and clean sounding signals won't.
>>> Let the trip to the cemetery begin.
>>
>>
>> Thanks for your conclusion. Maybe you should contact the engineers at
>> Analog Devices and explain to them that their SSM2166 chip is just
>> plain no good. I'm sure they'd be happy to hear from you... lol
>> www.telstar-electonics.com
>>
>
> I'm sure they will acknowledge that it introduces controlled distortion.
=====================================
Which for radio voice comms does not matter all that much.

Frank     GM0CSZ / KN6WH


From 2683052715745497433
X-Google-Thread: fc2a5,c886b9835d9da72a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 26 Aug 2007 02:06:15 -0500
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <f6SdnfaapedaBFrbnZ2dnUVZ_vihnZ2d@comcast.com>
Subject: Re: Mixer Data?
Date: Sun, 26 Aug 2007 02:06:16 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <-eCdnRglE4_6u0zbnZ2dnUVZ_oCvnZ2d@comcast.com>
```

Lines: 21
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 76.29.104.96
X-Trace: sv3-vwTqXoSoe2uk0u0R6R/
nPLDklHlRysba7fevIptU+oPsgrxQd1AojS+lhdvgbkoml+0iTGCdSje82W+!QaD8/0p5/
xrriNdItvzFGQRPPpnzMoqRV5nNJl6wUvvGOZ0Qk/au8tf/DZn+P1umH2DYdf7HavYo!
7Uu0rNRkw7mGwvcz6a/QR3FrNCeo
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:884

LO and RF ports are rated from 4 to 8GHz, IF port is good from DC to 2GHz.
Noise figure is 5dB, and port to port isolation is 35dB. This dats is from
my purple WJ data book.

Pete

"Leland C. Scott" <kc8ldo@arrl.net> wrote in message
news:f6SdnfaapedaBFrbnZ2dnUVZ_vihnZ2d@comcast.com...
>I have a WJ M14 mixer with sma connectors on all three ports. Does anybody
>ant data on this mixer? A search on the Internet didn't turn up anything
>and I get no response from the company even after using a professional for
>pay search service contacted them.
>
>
> --
> Regards,
> Leland C. Scott
> KC8LDO
>

From -4928943315298226307
X-Google-Thread: fc2a5,60f2b7d9efeb2481
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: My vacuum tube homebrew transmitter
Date: Sun, 26 Aug 2007 01:50:50 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.08.26.08.50.50.203190@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com>
<46cea3cf$0$13888$afc38c87@news.optusnet.com.au>
<Pine.NEB.4.64.0708242342410.19407@panix1.panix.com>

```
<pan.2007.08.25.05.37.15.156759@localhost.localdomain>
<Pine.NEB.4.64.0708250820570.28278@panix3.panix.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 16
Organization: Octanews
NNTP-Posting-Date: 26 Aug 2007 03:50:56 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:885

<snip>

>> Oh, there's more of us :-)
>>
>> At 39, I'm a dinosaur at heart with barely a transistor in stock. A couple
>> thousand tubes though!
>
> Three of us? Could we form a club? "The dinosaur club"? ;-)

Behold - http://geek.scorpiorising.ca/GeeK_ZonE

Some of the tube lovers are even mid-teenagers :-)

Cheers,
--
Gregg


From -5256591162949466646
X-Google-Thread: fc2a5,a82623cf4c93a2cd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!x35g2000prf.googlegroups.com!not-for-
mail
From:  MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimental AMPS Micro Base Station project
Date: Sun, 26 Aug 2007 10:05:27 -0700
Organization: http://groups.google.com
Lines: 15
Message-ID: <1188147927.849566.145130@x35g2000prf.googlegroups.com>
References: <1188108285.994490.293290@i38g2000prf.googlegroups.com>
NNTP-Posting-Host: 222.155.162.117
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1188147928 5812 127.0.0.1 (26 Aug 2007 17:05:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 26 Aug 2007 17:05:28 +0000 (UTC)
In-Reply-To: <1188108285.994490.293290@i38g2000prf.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
```

```
Complaints-To: groups-abuse@google.com
Injection-Info: x35g2000prf.googlegroups.com; posting-host=222.155.162.117;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:886
```

Hi All,

I guess a few of you have been taking a look because Geocities has temporarily closed down the webs site due to excessive bandwidth :)

If this continues, I can move the site to a new server.

Also, I have a few schematics to add in the next day or so, so please keep checking for updates.

Regards,

Mark

```
From 5345071837091485732
X-Google-Thread: fc2a5,cfef963004b94f95,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 26 Aug 2007 16:23:53 -0500
From: "George Kavanagh" <gk05XspamX@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Replacement for Carbon Comp resistors
Date: Sun, 26 Aug 2007 17:24:07 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <5a2dnaCE7aP0ckzbnZ2dnUVZ_tyknZ2d@comcast.com>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 71.232.134.164
X-Trace: sv3-5zdQCcL12s/Sjjtlwcf Vj1fW701OyyDgxQ8YoU41TDqaNok+W2I0x+hVWuif0ZZddyp/
dZwdXDBg/xn!o2ltSApELHzGG18Y/tyMv/
CoXosrKh0HrpzQ7QOQldKzuneHsFwb9bGpO7SRWUObovO59Tw0CQmT!
EoYqAcm74s88Sne7Stsr2begKFGMP58=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
```

```
Xref: g2news2.google.com rec.radio.amateur.homebrew:887
```

I'm in the process of removing parasitics in the final of a 6DQ5 75W transmitter (1963 ARRL HB, pg 176), and am in need of source for 2+ watt non-inductive reistors for parasitic traps in grid & plate circuits. Sources for higher wattage carbon composition resistors seem to have dried up. Can ceramic composition resistors, such as Ohmite's OX/OY series be used? They are touted as "non-inductive". Please advise.

73,

George, KB1HFT

--
Remove "XspamX" to reply to me.

```
From 8645764855846977333
X-Google-Thread: fc2a5,60f2b7d9efeb2481
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix1.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My vacuum tube homebrew transmitter
Date: Sun, 26 Aug 2007 19:01:01 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 30
Message-ID: <Pine.NEB.4.64.0708261858560.29115@panix1.panix.com>
References: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com>
 <46cea3cf$0$13888$afc38c87@news.optusnet.com.au>
 <Pine.NEB.4.64.0708242342410.19407@panix1.panix.com>
 <pan.2007.08.25.05.37.15.156759@localhost.localdomain>
 <Pine.NEB.4.64.0708250820570.28278@panix3.panix.com>
 <pan.2007.08.26.08.50.50.203190@localhost.localdomain>
NNTP-Posting-Host: panix1.panix.com
Mime-Version: 1.0
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X-Trace: reader1.panix.com 1188169262 28527 166.84.1.1 (26 Aug 2007 23:01:02 GMT)
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NNTP-Posting-Date: Sun, 26 Aug 2007 23:01:02 +0000 (UTC)
In-Reply-To: <pan.2007.08.26.08.50.50.203190@localhost.localdomain>
Xref: g2news2.google.com rec.radio.amateur.homebrew:888
```

On Sun, 26 Aug 2007, geek wrote:

> <snip>
>

>>> Oh, there's more of us :-)
>>>
>>> At 39, I'm a dinosaur at heart with barely a transistor in stock. A couple
>>> thousand tubes though!
>>
>> Three of us? Could we form a club? "The dinosaur club"? ;-)
>
> Behold - http://geek.scorpiorising.ca/GeeK_ZonE

How about that... I had a quick look, and cracked up over that one abut
getting 500 watts out of a 6L6. Didn't read deeply, but saw a few links
I'll have a read later.

Thanks.

> Some of the tube lovers are even mid-teenagers :-)

There ae also guys out there that, for wacko (?) reasons, like to restore
old cars (eg. Model T fords) and drive them around, too. ;-)

> Cheers,
> __
> Gregg
>

```
From 6388734682249498555
X-Google-Thread: fc2a5,cfef963004b94f95
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Replacement for Carbon Comp resistors
Date: Sun, 26 Aug 2007 20:05:19 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.08.27.03.05.19.507989@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <5a2dnaCE7aP0ckzbnZ2dnUVZ_tyknZ2d@comcast.com>
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Content-Transfer-Encoding: 8bit
Lines: 13
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NNTP-Posting-Date: 26 Aug 2007 22:05:27 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:890
```

Hi,

Talk to Steve at http://www.apexjr.com

He has AB carbon comps.

For some things, like RF and high transient current, nothing else will do
as good, I'm afraid.

Cheers,
--
Gregg

From -2205247171380942462
X-Google-Thread: fc2a5,cfef963004b94f95
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X-Google-Language: ENGLISH,ASCII-7-bit
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news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 27 Aug 2007 04:24:27 -0500
Message-ID: <yev1QGJCTp0GFAE9@ifwtech.co.uk>
Date: Mon, 27 Aug 2007 10:09:22 +0100
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Replacement for Carbon Comp resistors
References: <5a2dnaCE7aP0ckzbnZ2dnUVZ_tyknZ2d@comcast.com>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<5mwkzTBRO5sETFKkGhyHHc+YXH>)
Lines: 96
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 91.84.209.172
X-Trace: sv3-
XAi7O1SKEjADZN3F3HnP62mBSVQy2bDElByZflytHpAjubd7ZLoRfWiKPoU0ExRosr07tAOk21Av/oT!
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X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:891

George Kavanagh wrote:
>I'm in the process of removing parasitics in the final of a 6DQ5 75W
>transmitter (1963 ARRL HB, pg 176), and am in need of source for 2+
>watt non-inductive reistors for parasitic traps in grid & plate
>circuits. Sources for higher wattage carbon composition resistors seem
>to have dried up. Can ceramic composition resistors, such as Ohmite's
>OX/OY series be used? They are touted as "non-inductive". Please advise.
>

This one keeps coming around...

"Inductive" is not a yes/no quantity. Any component has stray inductance, so you always have to ask <how much>.

Carbon composition resistors never were completely "non-inductive"... except by comparison with wirewound resistors. That claim was always a lie, and it shouldn't scare you away from more modern resistors where the manufacturers are being more honest about how much (or how little) inductance there really is.

There's a very good reason why carbon composition resistors are becoming hard to find. In professional equipment they have been replaced by metal-film resistors, which are better in almost every way. MF resistors have better stability of the resistance value, and better thermal performance in a smaller package, because the resistive element is on the outside where the heat can get away more easily. MF resistors also have vastly better tolerance of high operating temperatures - which are guaranteed to exist at the anode cap of a transmitting tube.

The bugaboo about inductance will go away if you look hard at it. Instead of running scared when you hear the word "inductive", find out how much inductance there really is, and how much it's really going to matter.

Scrape off the coating of a typical wire-ended MF resistor, and you will see that the grey metal film has a slow spiral groove cut into it - in effect, the resistive element is a few spiral turns of flat ribbon. Do the same for a range of resistance values, and you'll find that the pitch of the spiral and number of turns will vary from one resistor to the next. The more turns there are, the longer and narrower the ribbon becomes, so the higher the resistance will be.

But it is quite rare to find more than about 10 turns, because the manufacturing process becomes too difficult to control accurately. For the next higher resistance value, the manufacturer will step up to a higher-resistivity base material, and drop back to the lowest number of turns. Then the whole cycle of gradually increasing number of turns can repeat up to the next break-point. Incidentally, this also means that even some very high resistance values can also have a very low inductance.

There is no universal way to predict which resistance values will have the lowest inductance, because the break-points between about 10 turns and about 1.5 turns will be different from one manufacturer to the next. If you really want to find out, you have to scrape off the coating and look for yourself.

If you do that, then measure the dimensions of these little 'coils', count the numbers of turns, and plug the values into the standard formula for inductance. You will find that typical values of inductance for small MF resistors are only a few tens of nanohenries - in fact, not much more than the inductance of the wire leads! The values are in exactly the same ballpark as carbon composition resistors. (I have verified this by direct measurements with a network analyser; and it wasn't easy, because the parasitic inductance values genuinely are so small.)

So now you have to ask: will a few tens of nanohenries matter in my circuit? At all frequencies up to about 100MHz, the answer is almost invariably NO.

(The only exceptions are when you're trying to make a resistance standard for use in measurements at high frequencies. However, you can make an excellent low-VSWR dummy load by connecting a large number of small MF resistors in parallel, as the parallel connection reduces the effect of the stray inductance.)

For all of these reasons, most makers of big power amplifiers have moved to MF resistors for VHF parasitic suppressors - typically a bundle of 2-3 3W resistors in parallel. The critical factor for power dissipation is the RF heating from normal operation at 24-28MHz, where a small fraction of the RF power will be lost in the resistor.

With your baby 6DQ5, you can use 0.25W MF resistors whose inductance will be tiny.

When you're building retro equipment from the old handbooks, wherever you see 'carbon composition', remember that there weren't any other choices back then. If the ODGs who wrote those books were still around today, they'd all be using metal film.

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From 8098585741398919828
X-Google-Thread: fc2a5,cfef963004b94f95
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 27 Aug 2007 04:32:31 -0500
Date: Mon, 27 Aug 2007 10:33:03 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Replacement for Carbon Comp resistors
References: <5a2dnaCE7aP0ckzbnZ2dnUVZ_tyknZ2d@comcast.com>
<pan.2007.08.27.03.05.19.507989@localhost.localdomain>
In-Reply-To: <pan.2007.08.27.03.05.19.507989@localhost.localdomain>
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X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:892

  > Talk to Steve at http://www.apexjr.com
>
> He has AB carbon comps.
>
> For some things, like RF and high transient current, nothing else will do
> as good, I'm afraid.
===============================
Nice surplus components site , sadly no credit card payments, hence only
for local (USA) customers.

Frank     GM0CSZ / KN6WH


From 2257480065731624270
X-Google-Thread: fc2a5,cfef963004b94f95
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out02b.usenetserver.com!
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cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc08.POSTED!291cd109!
not-for-mail
From: Al <no.spam@wanted.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Replacement for Carbon Comp resistors
References: <5a2dnaCE7aP0ckzbnZ2dnUVZ_tyknZ2d@comcast.com>
<1188173809.169984.182630@k79g2000hse.googlegroups.com>
User-Agent: MT-NewsWatcher/3.1 (PPC)
Message-ID: <no.spam-6BA4FE.08451927082007@news.verizon.net>
Lines: 21
Date: Mon, 27 Aug 2007 12:46:08 GMT
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NNTP-Posting-Date: Mon, 27 Aug 2007 08:46:08 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:893

In article <1188173809.169984.182630@k79g2000hse.googlegroups.com>,
```

Telstar Electronics <briangriffey@sbcglobal.net> wrote:

> On Aug 26, 4:24 pm, "George Kavanagh" <gk05Xsp...@comcast.net> wrote:
> > I'm in the process of removing parasitics in the final of a 6DQ5 75W
> > transmitter (1963 ARRL HB, pg 176), and am in need of source for 2+ watt
> > non-inductive reistors for parasitic traps in grid & plate circuits.
> > Sources for higher wattage carbon composition resistors seem to have dried
> > up. Can ceramic composition resistors, such as Ohmite's OX/OY series be
> > used? They are touted as "non-inductive". Please advise.
>
> Those don't say anything about their inductance... think you should
> consider http://www.ohmite.com/catalog/pdf/tfs.pdf
> www.telstar-electronics.com
>

What values do you need? I have a bunch from the 60's. Clean and never
used. If you need a couple and your needs match my supply, I'll just
mail them to you.

Al

From -8538983637289120815
X-Google-Thread: fc2a5,cfef963004b94f95
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!22g2000hsm.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Replacement for Carbon Comp resistors
Date: Mon, 27 Aug 2007 06:26:14 -0700
Organization: http://groups.google.com
Lines: 28
Message-ID: <1188221174.350676.85630@22g2000hsm.googlegroups.com>
References: <5a2dnaCE7aP0ckzbnZ2dnUVZ_tyknZ2d@comcast.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 27 Aug 2007 13:26:15 +0000 (UTC)
In-Reply-To: <5a2dnaCE7aP0ckzbnZ2dnUVZ_tyknZ2d@comcast.com>
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 22g2000hsm.googlegroups.com; posting-host=170.121.15.35;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:894

On Aug 26, 5:24 pm, "George Kavanagh" <gk05Xsp...@comcast.net> wrote:
> I'm in the process of removing parasitics in the final of a 6DQ5 75W

> transmitter (1963 ARRL HB, pg 176), and am in need of source for 2+ watt
> non-inductive reistors for parasitic traps in grid & plate circuits.
> Sources for higher wattage carbon composition resistors seem to have dried
> up. Can ceramic composition resistors, such as Ohmite's OX/OY series be
> used? They are touted as "non-inductive". Please advise.

In several cases (can you say "choke fire in the final cabinet that took out the parasitic suppressors too"?) I've replaced these with 2W/3W/5W metal oxide resistors with no problem. I think I was using the el-cheapo Xicons from Mouser.

When I've purposefully burnt low-ohm metal oxides (it's surprisingly hard - the resistor literally has to glow red hot for it to happen!) it is clear that while there is a spiral winding, that it's quite wide and only a turn or two for the resistors in the low ohm range and that the turns are extremely wide and fat. They could very well be lower inductance than the original carbon comps.

In fact the original choke fire that took out the original parasitic suppressors probably resulted from parasitic oscillation in the finals (I always assumed so - drawing a couple hundred mA with no input, and a bright blue glow from the final compartment, I always thought must be some sort of parasitic!)

Tim N3QE

```
From 6660705077956356502
X-Google-Thread: fc2a5,f13be7478ee1a759,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: BACK AGN:  TUBES,  EV MICS
Lines: 10
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X-MSMail-Priority: Normal
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Message-ID: <HJBAi.56405$ax1.40890@bgtnsc05-news.ops.worldnet.att.net>
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Organization: AT&T Worldnet
Date: Mon, 27 Aug 2007 15:04:07 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:895
```

Just back after 3 weeks with my new grandson in TX:

Will have more mics, parts, rigs: check back often:

5963 's, 5750's all NOS, EV 's 610, 630 + Rauland RF transformer:
All items guaranteed not DOA

heytubeguy

From 6676522147473965570
X-Google-Thread: fc2a5,6582e960fc474ffa,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 27 Aug 2007 11:44:11 -0500
Date: Mon, 27 Aug 2007 12:44:11 -0400
From: NoMoreSpam <Disgustedham@qrparci.org>
User-Agent: Thunderbird 1.5.0.8 (X11/20060911)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: What's This Guy Smoking?
X-Enigmail-Version: 0.94.1.0
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:896

http://cgi.ebay.com/Vintge-Coil-Type-Radio-Vintage-Homebrew_W0QQitemZ140106252993QQihZ004QQcategoryZ48702QQrdZ1QQssPageNameZWD1VQQcmdZViewItem

http://cgi.ebay.com/Military-Transmitter-Vintage-transmitter-Homebrew_W0QQitemZ140136314996QQihZ004QQcategoryZ4671QQrdZ1QQssPageNameZWD1VQQcmdZViewItem

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From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <utudnSDZipnGYk_bnZ2dnUVZ_gKdnZ2d@comcast.com>
Subject: Re: What's This Guy Smoking?
Lines: 12
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
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Message-ID: <zYDAi.24$7f4.6@newsfe06.lga>
X-Trace: 
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NNTP-Posting-Date: Mon, 27 Aug 2007 10:36:31 MST
Date: Mon, 27 Aug 2007 13:31:23 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:898

Hey, there are some folks out there who will buy anything.  Why not give it 
a shot?

..

"NoMoreSpam" <Disgustedham@qrparci.org> wrote in message 
news:utudnSDZipnGYk_bnZ2dnUVZ_gKdnZ2d@comcast.com...
> http://cgi.ebay.com/Vintge-Coil-Type-Radio-Vintage-
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>
> http://cgi.ebay.com/Military-Transmitter-Vintage-transmitter-
Homebrew_W0QQitemZ140136314996QQihZ004QQcategoryZ4671QQrdZ1QQssPageNameZWD1VQQcmdZ
ViewItem




From 7728698228280823585
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X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe06.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <5a2dnaCE7aP0ckzbnZ2dnUVZ_tyknZ2d@comcast.com>
Subject: Re: Replacement for Carbon Comp resistors
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Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <yYDAi.23$7f4.14@newsfe06.lga>
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NNTP-Posting-Date: Mon, 27 Aug 2007 10:36:30 MST
Date: Mon, 27 Aug 2007 13:29:11 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:897

You can still get carbon comp resistors at DigiKey. They aren't as cheap as
metal film, but for sensible power ratings they aren't crazy expensive.

..

"George Kavanagh" <gk05XspamX@comcast.net> wrote in message
news:5a2dnaCE7aP0ckzbnZ2dnUVZ_tyknZ2d@comcast.com...

> I'm in the process of removing parasitics in the final of a 6DQ5 75W
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> used? They are touted as "non-inductive". Please advise.
>
> 73,
>
> George, KB1HFT
>
> --
> Remove "XspamX" to reply to me.
>

From -2520701339912812521
X-Google-Thread: fc2a5,cfef963004b94f95
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r34g2000hsd.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Replacement for Carbon Comp resistors
Date: Mon, 27 Aug 2007 11:17:27 -0700
Organization: http://groups.google.com
Lines: 119
Message-ID: <1188238647.250177.116490@r34g2000hsd.googlegroups.com>
References: <5a2dnaCE7aP0ckzbnZ2dnUVZ_tyknZ2d@comcast.com>

  <yev1QGJCTp0GFAE9@ifwtech.co.uk>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
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NNTP-Posting-Date: Mon, 27 Aug 2007 18:17:27 +0000 (UTC)
In-Reply-To: <yev1QGJCTp0GFAE9@ifwtech.co.uk>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.6)
Gecko/20070725 Firefox/2.0.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: r34g2000hsd.googlegroups.com; posting-host=192.25.240.225;
  posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:899

On Aug 27, 2:09 am, Ian White GM3SEK <gm3...@ifwtech.co.uk> wrote:
> George Kavanagh wrote:
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> >transmitter (1963 ARRL HB, pg 176), and am in need of source for 2+
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>
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>
> "Inductive" is not a yes/no quantity. Any component has stray
> inductance, so you always have to ask <how much>.
>
> Carbon composition resistors never were completely "non-inductive"...
> except by comparison with wirewound resistors. That claim was always a
> lie, and it shouldn't scare you away from more modern resistors where
> the manufacturers are being more honest about how much (or how little)
> inductance there really is.
>
> There's a very good reason why carbon composition resistors are becoming
> hard to find. In professional equipment they have been replaced by
> metal-film resistors, which are better in almost every way. MF resistors
> have better stability of the resistance value, and better thermal
> performance in a smaller package, because the resistive element is on
> the outside where the heat can get away more easily. MF resistors also
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> guaranteed to exist at the anode cap of a transmitting tube.
>
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> how much inductance there really is, and how much it's really going to
> matter.
>
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> effect, the resistive element is a few spiral turns of flat ribbon. Do

> the same for a range of resistance values, and you'll find that the pitch of the spiral and number of turns will vary from one resistor to the next. The more turns there are, the longer and narrower the ribbon becomes, so the higher the resistance will be.
>
> But it is quite rare to find more than about 10 turns, because the manufacturing process becomes too difficult to control accurately. For the next higher resistance value, the manufacturer will step up to a higher-resistivity base material, and drop back to the lowest number of turns. Then the whole cycle of gradually increasing number of turns can repeat up to the next break-point. Incidentally, this also means that even some very high resistance values can also have a very low inductance.
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>
> So now you have to ask: will a few tens of nanohenries matter in my circuit? At all frequencies up to about 100MHz, the answer is almost invariably NO.
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> (The only exceptions are when you're trying to make a resistance standard for use in measurements at high frequencies. However, you can make an excellent low-VSWR dummy load by connecting a large number of small MF resistors in parallel, as the parallel connection reduces the effect of the stray inductance.)
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> For all of these reasons, most makers of big power amplifiers have moved to MF resistors for VHF parasitic suppressors - typically a bundle of 2-3 3W resistors in parallel. The critical factor for power dissipation is the RF heating from normal operation at 24-28MHz, where a small fraction of the RF power will be lost in the resistor.
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>
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>
> --
>
> 73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)http://www.ifwtech.co.uk/g3sek

Adding to Ian's good words, the larger resistors (1W, 2W and sometimes more) are commonly metal-oxide. They also work well, and have the same few-turn spiral structure that the metal film ones do. Several years ago I measured a little dummy load I made from four 200 ohm 2W metal-oxide parts in parallel. The construction was "tight" so that the leads didn't contribute more inductance than the resistors themselves. I don't have the numbers with me at the moment, but I recall a return loss measurement equivalent to about 1.1 or 1.15:1 at 150MHz, and around 1.5:1 at 450MHz.

The metal-oxide resistors have another interesting characteristic. They can dissipate enough power to glow red and do a very respectable job maintaining their resistance value--though expect some change if you let them get that hot. That's a double-edged sword. On the one hand, it's nice to know they will be pretty stable, but if you mount one on a circuit board, you need to make sure that it won't dissipate too much power, because it's quite capable of burning a hole in the board. It's very unlikely that a carbon composition resistor, or a carbon film, or even a normal metal film, will be able to hold its value as well if it gets that hot.

Cheers,
Tom

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From 1029367678843933793
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r34g2000hsd.googlegroups.com!not-for-mail
From:  K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Replacement for Carbon Comp resistors
Date: Mon, 27 Aug 2007 13:39:16 -0700
Organization: http://groups.google.com
Lines: 143
Message-ID: <1188247156.327285.43490@r34g2000hsd.googlegroups.com>
References: <5a2dnaCE7aP0ckzbnZ2dnUVZ_tyknZ2d@comcast.com>
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Complaints-To: groups-abuse@google.com
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   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:900

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>
>
>
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> value as well if it gets that hot.
>
> Cheers,
> Tom

In addition, about carbon comps... I had been saving them for years, and about three years ago now I went through my whole stash, from 1/4 watt (and even a few 1/10-1/8 watt) to 5 watt monsters, measuring them all--a few thousand of them. (One might ask why I bothered, given the results...) OVER HALF were out of tolerance, many by a LOT. Almost all were high, but the occasional one was low. It wasn't uncommon to measure them at twice the marked value and more. It didn't seem to matter if it was parts salvaged from equipment or unused ones. It didn't seem to matter what brand they were; I could recognize that from the appearance (mainly IRC and Ohmite and some British ones from a manufacturer whose name I've forgotten). I've saved a few of the in-tolerance ones of particularly interesting values, but mostly they were tossed in the trash (out-of-tolerance) and given away (in-tolerance). All in all, they were pretty terrible parts by today's standards. I wouldn't even think of designing one into a production piece of equipment.

Cheers,
Tom

From 2082246434357809150
X-Google-Thread: fc2a5,78ce06bf3d51653b
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X-Google-Language: ENGLISH,ASCII
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From: "Al Lorona" <al_lorona@agilent.com>
Newsgroups: rec.radio.amateur.homebrew
References: <bu51d3h95d4asv5tgd3uc18p1gr9u30sbs@4ax.com>
Subject: Re: Micro Amp Meter Source?
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
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Message-ID: <1VIAi.380$Sd4.341@nlpi061.nbdc.sbc.com>
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Date: Mon, 27 Aug 2007 16:14:14 -0700
Xref: g2news2.google.com rec.radio.amateur.homebrew:901

Danny,

C&H Surplus in Pasadena, CA, has tons of various meters available. I saw some there just the other day. http://www.candhsales.biz/CandH/ .

Regards,

Al W6LX

"Danny Richardson" <n_group@k6mhe.com> wrote in message news:bu51d3h95d4asv5tgd3uc18p1gr9u30sbs@4ax.com...
> I'm looking for a small (1� inch square or smaller) 100 micro amp
> meter. I've looked around the web and at some part suppliers sites
> without any luck. Is there anyone who could point me to a source? I
> don't need a high accuracy unit 5% or so is good enough.
>
> Thanks,
> Danny, K6MHE
>
>
>

>

From -4812213213911400589
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X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 27 Aug 2007 19:35:54 -0500
Message-Id: <467cq4-du7.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: TO-3P leads
Newsgroups: rec.radio.amateur.homebrew
Date: Mon, 27 Aug 2007 19:34:44 -0500
Organization: the clifto consortium
User-Agent: KNode/0.10.5
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 9
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NNTP-Posting-Host: 24.15.125.52
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:902

I'm looking at a dual diode, SBL3040. It's rated at 30A. The package is
TO-3P. The leads are no less than 1.9mm x 0.51mm. That's about the
density of smashed #20 solid wire, which makes me wonder; how can a
device with such tiny leads be rated at 30A?

--
Tiger Direct forcibly checking receipts?
http://tinyurl.com/2hz3ht

From -8510221228220956997
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X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

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sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: What's This Guy Smoking?
Date: Mon, 27 Aug 2007 18:24:08 -0700
Organization: Posted via Supernews, http://www.supernews.com
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Xref: g2news2.google.com rec.radio.amateur.homebrew:903

"NoMoreSpam" <Disgustedham@qrparci.org> wrote in message
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> http://cgi.ebay.com/Military-Transmitter-Vintage-transmitter-
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ViewItem

In all likelihood he doesn't know a thing about radios and figured he'd start
high and just work his way down: In all likelihood, those items won't sell and
in a week or two he'll drop the prices, say, $20.  He'll repeat that until
they're sold...




From -6825338166827525722
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X-Google-Attributes: gidfc2a5,public,usenet
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mail
From:  K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: TO-3P leads
Date: Mon, 27 Aug 2007 21:24:23 -0700
Organization: http://groups.google.com
Lines: 31
Message-ID: <1188275063.585298.181300@r23g2000prd.googlegroups.com>
References: <467cq4-du7.ln1@remote.clifto.com>
NNTP-Posting-Host: 71.113.61.183
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
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X-Trace: posting.google.com 1188275066 26420 127.0.0.1 (28 Aug 2007 04:24:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 28 Aug 2007 04:24:26 +0000 (UTC)
In-Reply-To: <467cq4-du7.ln1@remote.clifto.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.6) Gecko/20070725 Firefox/2.0.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
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   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:904

On Aug 27, 5:34 pm, clifto <cli...@gmail.com> wrote:
> I'm looking at a dual diode, SBL3040. It's rated at 30A. The package is
> TO-3P. The leads are no less than 1.9mm x 0.51mm. That's about the
> density of smashed #20 solid wire, which makes me wonder; how can a
> device with such tiny leads be rated at 30A?
>
> --
>   Tiger Direct forcibly checking receipts?
>   http://tinyurl.com/2hz3ht

(a) Heatsinking to the terminated end of the lead.
(b) I believe the 30A max average forward current is in the mode where each rectifier conducts half the time, the average being for both diodes, though note that the RMS current is commonly higher than the average current.
(c) The case would normally be connected electrically to carry the cathode current.
(d) Flat wire gets rid of heat to the air better than round wire.
(e) Fusing current for 20 AWG copper is 58 amps...expect a 20 AWG copper wire in free air to melt at about 58 amps.
(f) 1.9mm x 0.51mm = 0.969mm^2; 20AWG at 0.032 inches diameter works out to about 0.52mm^2, so your leads have almost the cross-section of 17 AWG. (though the Diodes Inc data sheet for that part says the leads could be as small as 0.3mm x 0.51mm, more like 25 AWG which has a fusing current for round copper conductors of about 24 amps).

If the 0.52mm^2 leads on your part get quite hot, they might be as much as 0.6 milliohms per inch. At 31.6 amps RMS, that would be about 0.6 watts per inch. Compare that to a half-watt resistor, and it doesn't sound so unreasonable.

From -2430988700067396476
X-Google-Thread: fc2a5,cfef963004b94f95
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Replacement for Carbon Comp resistors

Date: Mon, 27 Aug 2007 21:53:48 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.08.28.04.53.48.271715@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <5a2dnaCE7aP0ckzbnZ2dnUVZ_tyknZ2d@comcast.com>
<pan.2007.08.27.03.05.19.507989@localhost.localdomain>
<0pidnTpqi5myB0_bRVnyugA@pipex.net>
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Content-Transfer-Encoding: 8bit
Lines: 12
Organization: Octanews
NNTP-Posting-Date: 27 Aug 2007 23:53:57 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:905

Hi Frank,

> Nice surplus components site , sadly no credit card payments, hence only
> for local (USA) customers.

I'm in Canada and we deal all the time :-)

He accepts money orders and CC through PayPal.

Cheers,

--
Gregg

From -5169156803273938101
X-Google-Thread: fc2a5,6d87f0ce2d952787,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
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news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 28 Aug 2007 00:05:39 -0500
Date: Tue, 28 Aug 2007 17:05:43 +1200
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Kenwood TS-820s finals.
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000769-0, 27/08/2007), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-16-242.dsl.telstraclear.net
Message-ID: <46d3ad20@clear.net.nz>
X-Original-Trace: 28 Aug 2007 17:05:36 +1200, 121-72-16-242.dsl.telstraclear.net

Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 23
X-Usenet-Provider: http://www.giganews.com
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X-Trace: sv3-
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X-Complaints-To: Complaints to abuse@clear.net.nz
X-DMCA-Complaints-To: Complaints to abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:906

Good day all!
I've been having some problems with my 820s. It was fine for several
years and then I had a flashover in the finals. This may have been due
to a faulty ground on a "UHF" coax connector.
Have replaced the finals with 12 volt 6146B's (putting the heaters in
parallel of course). However although it now works, its effeciency is
damned awful. When it is loaded up to give 60 watts RF into a dummy load
the dissappation in 6146 anodes makes then glow cherry red!!!
Now my info tells me that the 6146B is rated at 30 watts anode
dissappation per tube (total 60 watts) so based on my 50 odd years of
electronics wouldn't expect a red hot anode at anything like the
theoretical 66% efficiency.
Yes, I have replaced the anode coupling cap (with an appropriate 3Kv rf
type) checked all the tube voltages set up the neutralisation and tried
the rig on all bands to ensure that the padding caps are OK. Same result!
My thinking is that my 6146B's may be in poor condition. Unfortunately
My old Heath valve tester does not do a very good job on big power
valves so although it says they are OK I don't really trust it.
So far I can't locate any parasitics up to about 120 MHz either.
Anyone had a similar problem? I am getting so fed up with it that I'm
thinking of running with 1x6146 and building a small linear amp
~400watts to drive the antennas.
Regards Cliff Wright ZL1BDA ex G3NIA.

From 7799322482930832821
X-Google-Thread: fc2a5,cfef963004b94f95
X-Google-Attributes: gidfc2a5,public,usenet
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nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 28 Aug 2007 02:32:32 -0500
Message-ID: <G6FGpXDd480GFAxa@ifwtech.co.uk>
Date: Tue, 28 Aug 2007 08:26:21 +0100
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Replacement for Carbon Comp resistors
References: <5a2dnaCE7aP0ckzbnZ2dnUVZ_tyknZ2d@comcast.com>
<yev1QGJCTp0GFAE9@ifwtech.co.uk>
<1188238647.250177.116490@r34g2000hsd.googlegroups.com>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<5W4kzTjVO5s2TFKkFhwHHc+731>)
Lines: 71
X-Usenet-Provider: http://www.giganews.com
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X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:907

K7ITM wrote:
>
>Adding to Ian's good words, the larger resistors (1W, 2W and sometimes
>more) are commonly metal-oxide. They also work well, and have the same
>few-turn spiral structure that the metal film ones do.

I should have made it clearer that metal-oxide resistors exist, and are generally similar to metal-film in their construction and low inductance.

However, we can only say "generally". If the very lowest inductance is important, you need to remove the coating and check for yourself.

>Several years ago I measured a little dummy load I made from four 200
>ohm 2W metal-oxide parts in parallel. The construction was "tight" so
>that the leads didn't contribute more inductance than the resistors
>themselves. I don't have the numbers with me at the moment, but I
>recall a return loss measurement equivalent to about 1.1 or 1.15:1 at
>150MHz, and around 1.5:1 at 450MHz.
>
>The metal-oxide resistors have another interesting characteristic. They
>can dissipate enough power to glow red and do a very respectable job
>maintaining their resistance value--though expect some change if you
>let them get that hot.
[Moved]
> It's very unlikely that a carbon composition resistor, or a carbon
>film, or even a normal metal film, will be able to hold its value as
>well if it gets that hot.
>

Metal film resistors do seem to behave well in similar tests. Like Tom (and Tim in another message) I have deliberately overloaded samples by a factor of 10 to see what would happen. From glowing bright red, the resistance returned to a few percent of the original value.

In parallel tests, modern carbon film resistors simply burned up - which is exactly what you would expect carbon to do. I didn't waste time on carbon comp, as any OT already knows they cannot tolerate even moderate overloads without oozing organic binder materials, accompanied by smoke, an awful smell and a large, permanent increase in resistance.

The other low-inductance power resistors that haven't been mentioned are the flat-film types, designed to be bolted down to a heatsink. There's a nice constructional example of a large RF power attenuator using these devices at:
http://granta.digital-crocus.com/Attenuator.php3

What surprises me is that carbon comp resistors are still available as specialist items because of their claimed performance in pulsed applications. With so many alternatives available, that have almost equally low inductance and vastly superior power handling, it would be interesting to learn what the specific advantages of carbon comp might be?

> That's a double-edged sword. On the one hand, it's nice to know they
>will be pretty stable, but if you mount one on a circuit board, you
>need to make sure that it won't dissipate too much power, because it's
>quite capable of burning a hole in the board.

These modern power resistors are also much smaller than traditional types... but this too can be double-edged. I sell a kit that includes a number of 1W, 2W and 3W metal film resistors, and occasionally receive e-mails saying: "There are several small resistors left over - and where are all the power resistors?"

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From 2258744620020785705
X-Google-Thread: fc2a5,cfef963004b94f95
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Tue, 28 Aug 2007 03:02:34 -0500
Message-ID: <86pIpoHtN90GFAHk@ifwtech.co.uk>
Date: Tue, 28 Aug 2007 08:49:01 +0100

From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Replacement for Carbon Comp resistors
References: <5a2dnaCE7aP0ckzbnZ2dnUVZ_tyknZ2d@comcast.com>
 <yev1QGJCTp0GFAE9@ifwtech.co.uk>
 <1188238647.250177.116490@r34g2000hsd.googlegroups.com>
 <G6FGpXDd480GFAxa@ifwtech.co.uk>
Organization: IFWtech
MIME-Version: 1.0
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Lines: 13
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X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:908

Ian White GM3SEK wrote:
>I have deliberately overloaded samples by a factor of 10 to see what
>would happen. From glowing bright red, the resistance returned to a few
>percent of the original value.

Sorry - that should say: From glowing bright red, the resistance returned to WITHIN a few percent of the original value.

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From -2418724895493221009
X-Google-Thread: fc2a5,cfef963004b94f95
X-Google-Attributes: gidfc2a5,public,usenet
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nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 28 Aug 2007 03:47:34 -0500
Message-ID: <SpCzdWKA890GFAiD@ifwtech.co.uk>
Date: Tue, 28 Aug 2007 09:38:24 +0100
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Replacement for Carbon Comp resistors
References: <5a2dnaCE7aP0ckzbnZ2dnUVZ_tyknZ2d@comcast.com>
 <1188221174.350676.85630@22g2000hsm.googlegroups.com>
Organization: IFWtech
MIME-Version: 1.0
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User-Agent: Turnpike/6.05-M (<5mwkzTBRO5sETFKkGhyHHc+YXH>)
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X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:909

Tim Shoppa wrote:

>When I've purposefully burnt low-ohm metal oxides (it's surprisingly hard - the resistor literally has to glow red hot for it to happen!) it is clear that while there is a spiral winding, that it's quite wide and only a turn or two for the resistors in the low ohm range and that the turns are extremely wide and fat. They could very well be lower inductance than the original carbon comps.
>
>In fact the original choke fire that took out the original parasitic suppressors probably resulted from parasitic oscillation in the finals (I always assumed so - drawing a couple hundred mA with no input, and a bright blue glow from the final compartment, I always thought must be some sort of parasitic!)

Parasitic oscillations are the subject of perpetual Holy Wars among certain amplifier builders... but both sides do agree about carbon composition resistors.

The resistors used in parasitic suppressors have to operate in a very hot environment, and they are also subject to heating by the RF current passing through them (especially on the higher HF bands). With carbon composition, the resistance is virtually certain to increase over time. This makes the parasitic suppressors less effective than they were when the amplifier was new, so there is some small risk that parasitic oscillations may reappear in older amplifiers.

If this happens, both sides agree that the original carbon comp resistors should always be replaced by metal film or metal oxide resistors - or preferably by a small bundle connected in parallel to reduce the inductance. (However, if the amplifier is still stable, it's usually better to leave well-enough alone until something happens, or until the next major overhaul.)

The same applies to the much higher-value resistors that are connected in parallel with the electrolytic capacitors in the power supply. These resistors are intended to equalize the voltages across the capacitors, but many old amplifiers used under-sized carbon composition resistors. Once again, these are virtually certain to have increased in value by an unpredictable amount, and instead of equalizing the voltages, some of them may now be having the opposite effect! Replacement with 3W metal film or metal oxide resistors is strongly advised (probably of a lower value than original, for improved voltage equalization).

Once the carbon composition resistors have been replaced by metal film or metal oxide, the problems of resistance change will be gone for good.

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

```
From 2048586271073705282
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o80g2000hse.googlegroups.com!not-for-
mail
From:  francesco.messineo@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820s finals.
Date: Tue, 28 Aug 2007 02:42:29 -0700
Organization: http://groups.google.com
Lines: 16
Message-ID: <1188294149.939393.133960@o80g2000hse.googlegroups.com>
References: <46d3ad20@clear.net.nz>
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NNTP-Posting-Date: Tue, 28 Aug 2007 09:42:30 +0000 (UTC)
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User-Agent: G2/1.0
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Complaints-To: groups-abuse@google.com
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   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:910
```

Hello,

On 28 Ago, 07:05, cliff wright <c.c.wri...@paradise.net.nz> wrote:
> Good day all!
> I've been having some problems with my 820s. It was fine for several
> years and then I had a flashover in the finals. This may have been due
> to a faulty ground on a "UHF" coax connector.
> Have replaced the finals with 12 volt 6146B's (putting the heaters in

what exactly are "12 volt 6146B's" ?
6146B have 6.3V heater. What tube are you using exactly?

73
Francesco IZ8DWF

From -8683894961091449679
X-Google-Thread: fc2a5,6d87f0ce2d952787
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820s finals.
Date: Tue, 28 Aug 2007 09:59:01 +0000 (UTC)
Organization: MGT Consulting
Lines: 20
Message-ID: <slrnfd7sdn.142.gsm@cable.mendelson.com>
References: <46d3ad20@clear.net.nz>
<1188294149.939393.133960@o80g2000hse.googlegroups.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-139-153-145.bb.netvision.net.il
X-Trace: marvin.inside.misty.com 1188295141 12740 89.139.153.145 (28 Aug 2007 09:59:01 GMT)
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NNTP-Posting-Date: Tue, 28 Aug 2007 09:59:01 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:911

francesco.messineo@gmail.com wrote:

> what exactly are "12 volt 6146B's" ?
> 6146B have 6.3V heater. What tube are you using exactly?

There were several variants with different heater voltages. I once bought a bunch of them cheaply at a hamfest. If you were building your own rig and could set the heater voltage, they were well worth the price.

In a commerical radio, e.g. the 820, they were of absolutely no use.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
IL Voice: (07)-7424-1667 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/

```
From 6017257217213411507
X-Google-Thread: fc2a5,6d87f0ce2d952787
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!w3g2000hsg.googlegroups.com!not-for-
mail
From:  francesco.messineo@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820s finals.
Date: Tue, 28 Aug 2007 03:16:06 -0700
Organization: http://groups.google.com
Lines: 17
Message-ID: <1188296166.101830.8610@w3g2000hsg.googlegroups.com>
References: <46d3ad20@clear.net.nz>
   <1188294149.939393.133960@o80g2000hse.googlegroups.com>
   <slrnfd7sdn.142.gsm@cable.mendelson.com>
NNTP-Posting-Host: 83.190.72.53
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1188296166 23028 127.0.0.1 (28 Aug 2007 10:16:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 28 Aug 2007 10:16:06 +0000 (UTC)
In-Reply-To: <slrnfd7sdn.142.gsm@cable.mendelson.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.12) Gecko/
20060216 Debian/1.7.12-1.1ubuntu2,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: w3g2000hsg.googlegroups.com; posting-host=83.190.72.53;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:912
```

On 28 Ago, 11:59, g...@mendelson.com (Geoffrey S. Mendelson) wrote:

> francesco.messi...@gmail.com wrote:
> > what exactly are "12 volt 6146B's" ?
> > 6146B have 6.3V heater. What tube are you using exactly?
>
> There were several variants with different heater voltages. I once
> bought a bunch of them cheaply at a hamfest. If you were building
> your own rig and could set the heater voltage, they were well worth
> the price.

>

yes, I remember, but afair they had different "names", surely not
marked as 6146B.

73
Francesco IZ8DWF

From -2337512685430269607
X-Google-Thread: fc2a5,6d87f0ce2d952787
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!
news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 28 Aug 2007 06:11:37 -0500
Date: Tue, 28 Aug 2007 23:11:36 +1200
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820s finals.
References: <46d3ad20@clear.net.nz>
<1188294149.939393.133960@o80g2000hse.googlegroups.com>
<slrnfd7sdn.142.gsm@cable.mendelson.com>
In-Reply-To: <slrnfd7sdn.142.gsm@cable.mendelson.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000769-0, 27/08/2007), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-16-242.dsl.telstraclear.net
Message-ID: <46d402e6@clear.net.nz>
X-Original-Trace: 28 Aug 2007 23:11:34 +1200, 121-72-16-242.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 32
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-Trace: sv3-
sR8zUS4+ScAVdiuFKtNcQJrAxEvhOtGIInY96juSXo3hpplR5yZGgGBEK98oqH4BfzUI7uKJBrcRAK5!
OrIpiSk0k3zhdFo1e9u8p3P4uDVbp/f8WlnIPXzvFpsKGxuD1reVZTQ=
X-Complaints-To: Complaints to abuse@clear.net.nz
X-DMCA-Complaints-To: Complaints to abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:913

Geoffrey S. Mendelson wrote:
> francesco.messineo@gmail.com wrote:
>
>
>>what exactly are "12 volt 6146B's" ?
>>6146B have 6.3V heater. What tube are you using exactly?
>
>
> There were several variants with different heater voltages. I once
> bought a bunch of them cheaply at a hamfest. If you were building
> your own rig and could set the heater voltage, they were well worth
> the price.
>
> In a commerical radio, e.g. the 820, they were of absolutely no
> use.
>
> Geoff.
>
>

The tubes in Question are a pair of 6883B's. According to all my data
they are identical to the 6146B except for a nominally 12.6 volt
heater rating, and a tiny increase in interelectrode capacity (about
1%). They were often used in high power (~60 watt) HF "bush" radio
telephones in NZ until recently, both in SSB and AM modes.
So they are relatively common here.
I pulled the covers off the final to check after your posting.
Since the 820S actually runs the 6146B heaters in series from 12.6 volts
there should be absolutely NO reason why they couldn't do the job with a
simple heater rewire from series to parallel.
They are physically identical to a 6146B externally.
Hope this clarifies the situation.
Regards Cliff Wright ZL1BDA

From 5388205388192681100
X-Google-Thread: fc2a5,78ce06bf3d51653b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 28 Aug 2007 06:21:37 -0500
From: Danny Richardson <n_group@k6mhe.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Micro Amp Meter Source?
Date: Tue, 28 Aug 2007 04:21:34 -0700
Message-ID: <b718d3di9sgm5j01kqp99palell1a0dnqg@4ax.com>
References: <bu51d3h95d4asv5tgd3uc18p1gr9u30sbs@4ax.com>
<1VIAi.380$Sd4.341@nlpi061.nbdc.sbc.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Lines: 17
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 76.102.205.36
X-Trace: sv3-
yO5SneDl1MQytahwABwhlRRxGOZC6INOGtEubRxN2ZWdrtpPviowSaY2klfBg60aQ4i9TyJRYWbFtL2!
eUWYugPWD5ra50NW+vkFJB7GrGN/nbA/OZEZLmzxP6ZMvm0bdXHCE1bclNsSlbATVZYpw9+8MWlI!
9XlDqZeHy8yvE1aohJAm0nk02oY=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:914

I have located a meter. Thanks for the response.

73,
Danny

On Mon, 27 Aug 2007 16:14:14 -0700, "Al Lorona"
<al_lorona@agilent.com> wrote:

>Danny,
>
>C&H Surplus in Pasadena, CA, has tons of various meters available. I saw
>some there just the other day. http://www.candhsales.biz/CandH/ .
>
>Regards,
>
>Al W6LX
>

From -1611173106339441242
X-Google-Thread: fc2a5,cfef963004b94f95
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 28 Aug 2007 06:33:05 -0500
Date: Tue, 28 Aug 2007 12:33:38 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Replacement for Carbon Comp resistors
References: <5a2dnaCE7aP0ckzbnZ2dnUVZ_tyknZ2d@comcast.com>
<pan.2007.08.27.03.05.19.507989@localhost.localdomain>
<0pidnTpqi5myB0_bRVnyugA@pipex.net>
<pan.2007.08.28.04.53.48.271715@localhost.localdomain>
In-Reply-To: <pan.2007.08.28.04.53.48.271715@localhost.localdomain>

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Content-Transfer-Encoding: 7bit
Message-ID: <i_SdnX5j7vRvmknbnZ2dnUVZ8tOmnZ2d@pipex.net>
Lines: 10
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NNTP-Posting-Host: 85.210.43.112
X-Trace: sv3-nF8kPzM9rl7ffKzruDsinzxR/
eTjtcIzQtdrbbC9+WFNI3dYX77xffMGWmSEQ963ykXRj9Ned+P9J60!
Bi7eDMJCLfkhbMN7ZVNjw29rVmKX5nPKVpmVS9gENeHYbTRu+VMIHNCF3106Ez9w2Rg3H+B0T+Pg!
mJlRn58mCy3sZ8Sw0TF+tBvPvQ==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:915

>> Nice surplus components site , sadly no credit card payments, hence only
>> for local (USA) customers.
>
> I'm in Canada and we deal all the time :-)
>
> He accepts money orders and CC through PayPal.
=================
Tnx Gregg , that's good to know.

Frank    GM0CSZ / KN6WH


From 3547707185942375293
X-Google-Thread: fc2a5,6d87f0ce2d952787
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o80g2000hse.googlegroups.com!not-for-
mail
From:  francesco.messineo@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820s finals.
Date: Tue, 28 Aug 2007 06:13:54 -0700
Organization: http://groups.google.com
Lines: 31
Message-ID: <1188306834.165284.139390@o80g2000hse.googlegroups.com>
References: <46d3ad20@clear.net.nz>
   <1188294149.939393.133960@o80g2000hse.googlegroups.com>
   <slrnfd7sdn.142.gsm@cable.mendelson.com>
   <46d402e6@clear.net.nz>
NNTP-Posting-Host: 83.190.72.53
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1188306834 21278 127.0.0.1 (28 Aug 2007 13:13:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 28 Aug 2007 13:13:54 +0000 (UTC)
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In-Reply-To: <46d402e6@clear.net.nz>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.12) Gecko/
20060216 Debian/1.7.12-1.1ubuntu2,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o80g2000hse.googlegroups.com; posting-host=83.190.72.53;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:916

On 28 Ago, 13:11, cliff wright <c.c.wri...@paradise.net.nz> wrote:
> Geoffrey S. Mendelson wrote:

> The tubes in Question are a pair of 6883B's. According to all my data
> they are identical to the 6146B except for a nominally 12.6 volt
> heater rating, and a tiny increase in interelectrode capacity (about
> 1%). They were often used in high power (~60 watt) HF "bush" radio
> telephones in NZ until recently, both in SSB and AM modes.
> So they are relatively common here.
> I pulled the covers off the final to check after your posting.
> Since the 820S actually runs the 6146B heaters in series from 12.6 volts
> there should be absolutely NO reason why they couldn't do the job with a
> simple heater rewire from series to parallel.
> They are physically identical to a 6146B externally.

Indeed the 6883B is like a 6146B with different heater voltage. Then either these tubes are bad or you have another problem on your radio. Check antenna TX/RX relay and antenna socket connector. I had an FT-102 with antenna socket with an intermittent solder joint and it caused all sort of problems. It seems that you already checked all voltages on the tubes, but it might help to know what you exactly measured on the various grids and anodes, both in RX mode and in TX (idle). Do you observe any variation on the idle current of tubes when in TX mode with no mic input? When these tubes fail usually they have an ever increasing idle current and there's little to no way to stop this current to increase.

73

Francesco IZ8DWF

From 6106506240746855374
X-Google-Thread: fc2a5,6d87f0ce2d952787
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe13.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <46d3ad20@clear.net.nz>
Subject: Re: Kenwood TS-820s finals.

Lines: 38
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <qfVAi.222755$BX3.58986@newsfe13.lga>
Date: Tue, 28 Aug 2007 09:17:09 -0400
NNTP-Posting-Host: 68.229.79.253
X-Complaints-To: admin@cox.net
X-Trace: newsfe13.lga 1188307030 68.229.79.253 (Tue, 28 Aug 2007 06:17:10 MST)
NNTP-Posting-Date: Tue, 28 Aug 2007 06:17:10 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:917

"cliff wright" <c.c.wright@paradise.net.nz> wrote in message
news:46d3ad20@clear.net.nz...
> Good day all!
> > Have replaced the finals with 12 volt 6146B's (putting the heaters in
> parallel of course). However although it now works, its effeciency is
> damned awful.

That should work fine.

When it is loaded up to give 60 watts RF into a dummy load
> the dissappation in 6146 anodes makes then glow cherry red!!!

Does maximum power out perfectly coincide with the dip in plate
current? What is the quiescient plate idle current in SSB? What
is the grid drive current when tuning? Are you using a terminating
type dummy load wattmeter, or an inline wattmeter to an antenna?

What is the plate current when tuned for 60 watts output?

> Yes, I have replaced the anode coupling cap (with an appropriate 3Kv rf
> type)

That wouldn't be a likely cause.,,

checked all the tube voltages set up the neutralisation and tried
> the rig on all bands to ensure that the padding caps are OK.

Double check you coax jumper cables for problems, unsoldered
shields, etc. Sometimes simple solutions to difficult problems
elude us.

Peter k1zjh

.
> Regards Cliff Wright ZL1BDA ex G3NIA.

From -9108540759155361348
X-Google-Thread: fc2a5,6582e960fc474ffa
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!feeder.news-service.com!feeder.news-service.com!tudelft.nl!txtfeed1.tudelft.nl!feed.xsnews.nl!border-1.ams.xsnews.nl!sn-xt-ams-06!sn-xt-ams-05!sn-ams!sn-feed-ams-03!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: What's This Guy Smoking?
Date: Tue, 28 Aug 2007 08:59:08 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13d8aenqes0m61f@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <utudnSDZipnGYk_bnZ2dnUVZ_gKdnZ2d@comcast.com> <13d6u9pplopb222@corp.supernews.com>
In-Reply-To: <13d6u9pplopb222@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 25
Xref: g2news2.google.com rec.radio.amateur.homebrew:918

Joel Kolstad wrote:

> "NoMoreSpam" <Disgustedham@qrparci.org> wrote in message
> news:utudnSDZipnGYk_bnZ2dnUVZ_gKdnZ2d@comcast.com...
>
>>http://cgi.ebay.com/Vintge-Coil-Type-Radio-Vintage-Homebrew_W0QQitemZ140106252993QQihZ004QQcategoryZ48702QQrdZ1QQssPageNameZWD1VQQcmdZViewItem
>>
>>http://cgi.ebay.com/Military-Transmitter-Vintage-transmitter-Homebrew_W0QQitemZ140136314996QQihZ004QQcategoryZ4671QQrdZ1QQssPageNameZWD1VQQcmdZViewItem
>
>
> In all likelihood he doesn't know a thing about radios and figured he'd start
> high and just work his way down: In all likelihood, those items won't sell and
> in a week or two he'll drop the prices, say, $20. He'll repeat that until
> they're sold...
>
>

I've seen sellers like that take a more perverse course; if they don't sell, he'll up the prices a bit and inevitably there will be a buyer who feels pressured and bites or in the alternative if they fail to sell, they will be unceremoniously scrapped.

Regards,

Michael

```
From -2312989469196942414
X-Google-Thread: fc2a5,6d87f0ce2d952787
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r34g2000hsd.googlegroups.com!not-for-
mail
From:  Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820s finals.
Date: Tue, 28 Aug 2007 07:04:53 -0700
Organization: http://groups.google.com
Lines: 56
Message-ID: <1188309893.275082.219520@r34g2000hsd.googlegroups.com>
References: <46d3ad20@clear.net.nz>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
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X-Trace: posting.google.com 1188309893 30542 127.0.0.1 (28 Aug 2007 14:04:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 28 Aug 2007 14:04:53 +0000 (UTC)
In-Reply-To: <46d3ad20@clear.net.nz>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: r34g2000hsd.googlegroups.com; posting-host=170.121.15.35;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:919
```

On Aug 28, 1:05 am, cliff wright <c.c.wri...@paradise.net.nz> wrote:

> Good day all!
> I've been having some problems with my 820s. It was fine for several
> years and then I had a flashover in the finals. This may have been due
> to a faulty ground on a "UHF" coax connector.
> Have replaced the finals with 12 volt 6146B's (putting the heaters in
> parallel of course). However although it now works, its effeciency is
> damned awful. When it is loaded up to give 60 watts RF into a dummy load
> the dissappation in 6146 anodes makes then glow cherry red!!!
> Now my info tells me that the 6146B is rated at 30 watts anode
> dissappation per tube (total 60 watts) so based on my 50 odd years of
> electronics wouldn't expect a red hot anode at anything like the
> theoretical 66% efficiency.
> Yes, I have replaced the anode coupling cap (with an appropriate 3Kv rf
> type) checked all the tube voltages set up the neutralisation and tried
> the rig on all bands to ensure that the padding caps are OK. Same result!

> My thinking is that my 6146B's may be in poor condition. Unfortunately
> My old Heath valve tester does not do a very good job on big power
> valves so although it says they are OK I don't really trust it.
> So far I can't locate any parasitics up to about 120 MHz either.
> Anyone had a similar problem? I am getting so fed up with it that I'm
> thinking of running with 1x6146 and building a small linear amp
> ~400watts to drive the antennas.
> Regards Cliff Wright ZL1BDA ex G3NIA.

Cliff -
You mean "wired in parallel".

A flashover in the final compartment can take out other things. You may have a failed plate choke, a leaky/lossy blocking capacitor, etc. Often the damage is visible (as in "plate choke is on fire" or "coupling capacitor looks like a burnt black potato chip") but other times it is not so visible - e.g. arcover inside the plate choke that makes it look OK from the outside, may even give the same DC resistance on an ohmmeter, but completely negates its usefulness in letting the plates swing at RF.

You don't say what your 12V 6146's are (you keep on calling them 6146B's but obviously they cannot be), but some of them are not directly drop-in, they require not just tweaking the neutralization but a change in biasing. I'd expect if you're truly putting 60W out, that you can look at the power in (Volts times Amps) and figure out if the dissipation should be making them glow red or not. It's possible the metering circuitry got fried in the arcover too (some meter the cathode current, some meter the plate current, but in either case the resistors used as meter shunts can go wrong, or sometimes the chokes and bypass caps between the final compartment and the meter can go bad too.)

If the plates are going red with what you think ought to be just idle bias on the tubes, then you either have a bias problem, a metering problem, or a nasty runaway parasitic, or all three! Often these symptoms do not arrive in isolation but in threes!

Tim.

From -4516741504576088385
X-Google-Thread: fc2a5,6d87f0ce2d952787
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 29 Aug 2007 02:44:08 -0500
Date: Wed, 29 Aug 2007 19:44:28 +1200
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/

```
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820s finals.
References: <46d3ad20@clear.net.nz>
<1188309893.275082.219520@r34g2000hsd.googlegroups.com>
In-Reply-To: <1188309893.275082.219520@r34g2000hsd.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000769-1, 28/08/2007), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-16-242.dsl.telstraclear.net
Message-ID: <46d523c5@clear.net.nz>
X-Original-Trace: 29 Aug 2007 19:44:05 +1200, 121-72-16-242.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 80
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-Trace: sv3-
gTsAGKoCcf5O+xGp9gB6BFaxG1HUIkfCkrYXDbG2XF2bvBhdy2u6QLRzsHVwBw1j8xPU6GvScsJxBtQ!
C6wa4GEgRXzUgC+aJ4LTgEzJjyitQkh7lt6aU3AJKjXoU7dRkDWJj3E=
X-Complaints-To: Complaints to abuse@clear.net.nz
X-DMCA-Complaints-To: Complaints to abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:920

Tim Shoppa wrote:
> On Aug 28, 1:05 am, cliff wright <c.c.wri...@paradise.net.nz> wrote:
>
>>Good day all!
>>I've been having some problems with my 820s. It was fine for several
>>years and then I had a flashover in the finals. This may have been due
>>to a faulty ground on a "UHF" coax connector.
>>Have replaced the finals with 12 volt 6146B's (putting the heaters in
>>parallel of course). However although it now works, its effeciency is
>>damned awful. When it is loaded up to give 60 watts RF into a dummy load
>>the dissappation in 6146 anodes makes then glow cherry red!!!
>>Now my info tells me that the 6146B is rated at 30 watts anode
>>dissappation per tube (total 60 watts) so based on my 50 odd years of
>>electronics wouldn't expect a red hot anode at anything like the
>>theoretical 66% efficiency.
>>Yes, I have replaced the anode coupling cap (with an appropriate 3Kv rf
>>type) checked all the tube voltages set up the neutralisation and tried
>>the rig on all bands to ensure that the padding caps are OK. Same result!
>>My thinking is that my 6146B's may be in poor condition. Unfortunately
>>My old Heath valve tester does not do a very good job on big power
>>valves so although it says they are OK I don't really trust it.
>>So far I can't locate any parasitics up to about 120 MHz either.
```

>>Anyone had a similar problem? I am getting so fed up with it that I'm
>>thinking of running with 1x6146 and building a small linear amp
>>~400watts to drive the antennas.
>>Regards Cliff Wright ZL1BDA ex G3NIA.
>
>
> Cliff -
>   You mean "wired in parallel".
>
>   A flashover in the final compartment can take out other things. You
> may have a failed plate choke, a leaky/lossy blocking capacitor, etc.
> Often the damage is visible (as in "plate choke is on fire" or
> "coupling capacitor looks like a burnt black potato chip") but other
> times it is not so visible - e.g. arcover inside the plate choke that
> makes it look OK from the outside, may even give the same DC
> resistance on an ohmmeter, but completely negates its usefulness in
> letting the plates swing at RF.
>
>   You don't say what your 12V 6146's are (you keep on calling them
> 6146B's but obviously they cannot be), but some of them are not
> directly drop-in, they require not just tweaking the neutralization
> but a change in biasing. I'd expect if you're truly putting 60W out,
> that you can look at the power in (Volts times Amps) and figure out if
> the dissipation should be making them glow red or not. It's possible
> the metering circuitry got fried in the arcover too (some meter the
> cathode current, some meter the plate current, but in either case the
> resistors used as meter shunts can go wrong, or sometimes the chokes
> and bypass caps between the final compartment and the meter can go bad
> too.)
>
> If the plates are going red with what you think ought to be just idle
> bias on the tubes, then you either have a bias problem, a metering
> problem, or a nasty runaway parasitic, or all three! Often these
> symptoms do not arrive in isolation but in threes!
>
> Tim.
>
Hi Guys!
Well I got a chance to look at the TS820S today and solved at least some
of the mystery. When I had the flashover the meter went O/C so i had to
replace it with a simlar meter with the original face.
Although it worked fine as an S meter on RX and Ok for the plate voltage
and RF levels it turned out to be about 40% LESS sensitive than the
original. When I carefully checked the cathode resistors (5 Ohms)I
discovered that the meter was reading about that much too low!
Result Class A linear amplifier!!!!!
No wonder the anodes were getting hot!!!
Set things up properly by altering the multiplier resistor for the meter
from 3.3K to 2.2K and everything starts to run in AB1 as it should and I
get 80 Watts without red hot anodes!
However the overheating has definitely damaged my finals and I think
that they are a bit gassy as they Anode current on key down definitely
drifts upwards.

So next Junk sale I'll be looking for some more 6883B's as replacements,
fortunately as I explained they are quite common here in NZ.
Many thanks for all your suggestions, it just goes to show how easy it
is to miss the obvious even after more than 50 years in electronics.
Best 73's Cliff Wright ZL1BDA ex G3NIA.

From 3864246851819564194
X-Google-Thread: fc2a5,cfef963004b94f95
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Xref: g2news2.google.com rec.radio.amateur.homebrew:921
Newsgroups: rec.radio.amateur.homebrew
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!boeing.com!not-for-mail
From: "Ken Finney" <kenneth.c.finney@boeing.com>
Subject: Re: Replacement for Carbon Comp resistors
Message-ID: <JnJyq0.1wx@news.boeing.com>
X-Mimeole: Produced By Microsoft MimeOLE V6.00.2900.2962
X-Priority: 3
X-Msmail-Priority: Normal
Lines: 157
Sender: nntp@news.boeing.com (Boeing NNTP News Access)
Organization: The Boeing Company
X-Complaints-To: abuse@news.boeing.com
X-Complaints-To: abuse@news.boeing.com
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-Rfc2646: Format=Flowed; Original
References: <5a2dnaCE7aP0ckzbnZ2dnUVZ_tyknZ2d@comcast.com>
<yev1QGJCTp0GFAE9@ifwtech.co.uk>
<1188238647.250177.116490@r34g2000hsd.googlegroups.com>
<1188247156.327285.43490@r34g2000hsd.googlegroups.com>
Date: Wed, 29 Aug 2007 20:39:35 GMT
X-Original-Bytes: 9039

"K7ITM" <k7itm@msn.com> wrote in message
news:1188247156.327285.43490@r34g2000hsd.googlegroups.com...
> On Aug 27, 11:17 am, K7ITM <k7...@msn.com> wrote:
>> On Aug 27, 2:09 am, Ian White GM3SEK <gm3...@ifwtech.co.uk> wrote:
>>
>>
>>
>> > George Kavanagh wrote:
>> > >I'm in the process of removing parasitics in the final of a 6DQ5 75W
>> > >transmitter (1963 ARRL HB, pg 176), and am in need of source for 2+
>> > >watt non-inductive reistors for parasitic traps in grid & plate
>> > >circuits. Sources for higher wattage carbon composition resistors seem
>> > >to have dried up. Can ceramic composition resistors, such as Ohmite's
>> > >OX/OY series be used? They are touted as "non-inductive". Please
>> > >advise.
>>
>> > This one keeps coming around...

>>
>> > "Inductive" is not a yes/no quantity. Any component has stray
>> > inductance, so you always have to ask <how much>.
>>
>> > Carbon composition resistors never were completely "non-inductive"...
>> > except by comparison with wirewound resistors. That claim was always a
>> > lie, and it shouldn't scare you away from more modern resistors where
>> > the manufacturers are being more honest about how much (or how little)
>> > inductance there really is.
>>
>> > There's a very good reason why carbon composition resistors are
>> > becoming
>> > hard to find. In professional equipment they have been replaced by
>> > metal-film resistors, which are better in almost every way. MF
>> > resistors
>> > have better stability of the resistance value, and better thermal
>> > performance in a smaller package, because the resistive element is on
>> > the outside where the heat can get away more easily. MF resistors also
>> > have vastly better tolerance of high operating temperatures - which are
>> > guaranteed to exist at the anode cap of a transmitting tube.
>>
>> > The bugaboo about inductance will go away if you look hard at it.
>> > Instead of running scared when you hear the word "inductive", find out
>> > how much inductance there really is, and how much it's really going to
>> > matter.
>>
>> > Scrape off the coating of a typical wire-ended MF resistor, and you
>> > will
>> > see that the grey metal film has a slow spiral groove cut into it - in
>> > effect, the resistive element is a few spiral turns of flat ribbon. Do
>> > the same for a range of resistance values, and you'll find that the
>> > pitch of the spiral and number of turns will vary from one resistor to
>> > the next. The more turns there are, the longer and narrower the ribbon
>> > becomes, so the higher the resistance will be.
>>
>> > But it is quite rare to find more than about 10 turns, because the
>> > manufacturing process becomes too difficult to control accurately. For
>> > the next higher resistance value, the manufacturer will step up to a
>> > higher-resistivity base material, and drop back to the lowest number of
>> > turns. Then the whole cycle of gradually increasing number of turns can
>> > repeat up to the next break-point. Incidentally, this also means that
>> > even some very high resistance values can also have a very low
>> > inductance.
>>
>> > There is no universal way to predict which resistance values will have
>> > the lowest inductance, because the break-points between about 10 turns
>> > and about 1.5 turns will be different from one manufacturer to the
>> > next.
>> > If you really want to find out, you have to scrape off the coating and
>> > look for yourself.
>>
>> > If you do that, then measure the dimensions of these little 'coils',
>> > count the numbers of turns, and plug the values into the standard

>> > formula for inductance. You will find that typical values of inductance
>> > for small MF resistors are only a few tens of nanohenries - in fact,
>> > not
>> > much more than the inductance of the wire leads! The values are in
>> > exactly the same ballpark as carbon composition resistors. (I have
>> > verified this by direct measurements with a network analyser; and it
>> > wasn't easy, because the parasitic inductance values genuinely are so
>> > small.)
>>
>> > So now you have to ask: will a few tens of nanohenries matter in my
>> > circuit? At all frequencies up to about 100MHz, the answer is almost
>> > invariably NO.
>>
>> > (The only exceptions are when you're trying to make a resistance
>> > standard for use in measurements at high frequencies. However, you can
>> > make an excellent low-VSWR dummy load by connecting a large number of
>> > small MF resistors in parallel, as the parallel connection reduces the
>> > effect of the stray inductance.)
>>
>> > For all of these reasons, most makers of big power amplifiers have
>> > moved
>> > to MF resistors for VHF parasitic suppressors - typically a bundle of
>> > 2-3 3W resistors in parallel. The critical factor for power dissipation
>> > is the RF heating from normal operation at 24-28MHz, where a small
>> > fraction of the RF power will be lost in the resistor.
>>
>> > With your baby 6DQ5, you can use 0.25W MF resistors whose inductance
>> > will be tiny.
>>
>> > When you're building retro equipment from the old handbooks, wherever
>> > you see 'carbon composition', remember that there weren't any other
>> > choices back then. If the ODGs who wrote those books were still around
>> > today, they'd all be using metal film.
>>
>> > --
>>
>> > 73 from Ian GM3SEK   'In Practice' columnist for RadCom
>> > (RSGB)http://www.ifwtech.co.uk/g3sek
>>
>> Adding to Ian's good words, the larger resistors (1W, 2W and sometimes
>> more) are commonly metal-oxide. They also work well, and have the
>> same few-turn spiral structure that the metal film ones do. Several
>> years ago I measured a little dummy load I made from four 200 ohm 2W
>> metal-oxide parts in parallel. The construction was "tight" so that
>> the leads didn't contribute more inductance than the resistors
>> themselves. I don't have the numbers with me at the moment, but I
>> recall a return loss measurement equivalent to about 1.1 or 1.15:1 at
>> 150MHz, and around 1.5:1 at 450MHz.
>>
>> The metal-oxide resistors have another interesting characteristic.
>> They can dissipate enough power to glow red and do a very respectable
>> job maintaining their resistance value--though expect some change if
>> you let them get that hot. That's a double-edged sword. On the one

>> hand, it's nice to know they will be pretty stable, but if you mount
>> one on a circuit board, you need to make sure that it won't dissipate
>> too much power, because it's quite capable of burning a hole in the
>> board. It's very unlikely that a carbon composition resistor, or a
>> carbon film, or even a normal metal film, will be able to hold its
>> value as well if it gets that hot.
>>
>> Cheers,
>> Tom
>
> In addition, about carbon comps... I had been saving them for years,
> and about three years ago now I went through my whole stash, from 1/4
> watt (and even a few 1/10-1/8 watt) to 5 watt monsters, measuring them
> all--a few thousand of them. (One might ask why I bothered, given the
> results...) OVER HALF were out of tolerance, many by a LOT. Almost
> all were high, but the occasional one was low. It wasn't uncommon to
> measure them at twice the marked value and more. It didn't seem to
> matter if it was parts salvaged from equipment or unused ones. It
> didn't seem to matter what brand they were; I could recognize that
> from the appearance (mainly IRC and Ohmite and some British ones from
> a manufacturer whose name I've forgotten). I've saved a few of the in-
> tolerance ones of particularly interesting values, but mostly they
> were tossed in the trash (out-of-tolerance) and given away (in-
> tolerance). All in all, they were pretty terrible parts by today's
> standards. I wouldn't even think of designing one into a production
> piece of equipment.
>

Even the milspec 10% INITIAL tolerance ones could drift something like 43%
over life.

From 476713831092026480
X-Google-Thread: fc2a5,6d87f0ce2d952787
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!sn-xt-sjc-05!sn-xt-sjc-07!sn-xt-sjc-01!
sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Roger (K8RI)" <validaddress@my.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820s finals.
Date: Wed, 29 Aug 2007 21:07:54 -0400
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <m26cd39g66dss42u5nnulhn850229c1cr0@4ax.com>
References: <46d3ad20@clear.net.nz>
<1188294149.939393.133960@o80g2000hse.googlegroups.com>
<slrnfd7sdn.142.gsm@cable.mendelson.com>
<1188296166.101830.8610@w3g2000hsg.googlegroups.com>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0

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Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000769-2, 08/29/2007), Outbound message
X-Antivirus-Status: Clean
X-Complaints-To: abuse@supernews.com
Lines: 22
Xref: g2news2.google.com rec.radio.amateur.homebrew:922

On Tue, 28 Aug 2007 03:16:06 -0700, francesco.messineo@gmail.com
wrote:

>On 28 Ago, 11:59, g...@mendelson.com (Geoffrey S. Mendelson) wrote:
>>  francesco.messi...@gmail.com wrote:
>> > what exactly are "12 volt 6146B's" ?
>> > 6146B have 6.3V heater. What tube are you using exactly?
>>
>> There were several variants with different heater voltages. I once
>> bought a bunch of them cheaply at a hamfest. If you were building
>> your own rig and could set the heater voltage, they were well worth
>> the price.
>>
>
>yes, I remember, but afair they had different "names", surely not
>marked as 6146B.

6146W IIRC

>
>73
>Francesco IZ8DWF


From -6647809165173045491
X-Google-Thread: fc2a5,6d87f0ce2d952787
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!
news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS-820s finals.
Date: Thu, 30 Aug 2007 06:09:02 +0000 (UTC)
Organization: MGT Consulting
Lines: 13
Message-ID: <slrnfdcnmh.88a.gsm@cable.mendelson.com>
References: <46d3ad20@clear.net.nz>
<1188294149.939393.133960@o80g2000hse.googlegroups.com>
<slrnfd7sdn.142.gsm@cable.mendelson.com>
<1188296166.101830.8610@w3g2000hsg.googlegroups.com>
<m26cd39g66dss42u5nnulhn850229c1cr0@4ax.com>
Reply-To: gsm@mendelson.com
```

NNTP-Posting-Host: 89-139-153-145.bb.netvision.net.il
X-Trace: marvin.inside.misty.com 1188454142 1911 89.139.153.145 (30 Aug 2007 06:09:02 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Thu, 30 Aug 2007 06:09:02 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:923

Roger (K8RI) wrote:

> 6146W IIRC

No. They are ruggedized versions of 6146A's. Still have the same heater voltage (6.3) as regular ones. Note that they are NOT the same as 6146B's however in a TS-820, it may not be noticable.

Geoff.
--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
IL Voice: (07)-7424-1667 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/

From -2168042948708434513
X-Google-Thread: 108122,a736c7ea2b4cb17e,start
X-Google-Thread: fc2a5,a736c7ea2b4cb17e,start
X-Google-Thread: 107ada,a736c7ea2b4cb17e,start
X-Google-Thread: 1109af,a736c7ea2b4cb17e,start
X-Google-Attributes: gid108122,gidfc2a5,gid107ada,gid1109af,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!feed.cgocable.net!read1.cgocable.net.POSTED!53ab2750!not-for-mail
From: "Norm VE3CZI" <ve3czi@arrl.net>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.swap
Subject: FS: Marconi / Spilsbury / Icom / IDA Service Manuals & MORE
Lines: 14
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <94FBi.1121$tx1.443@read1.cgocable.net>
Date: Thu, 30 Aug 2007 15:41:54 -0400
NNTP-Posting-Host: 24.141.130.191
X-Complaints-To: news@cogeco.net
X-Trace: read1.cgocable.net 1188502917 24.141.130.191 (Thu, 30 Aug 2007 15:41:57 EDT)
NNTP-Posting-Date: Thu, 30 Aug 2007 15:41:57 EDT
Organization: Cogeco Cable
Xref: g2news2.google.com rec.radio.amateur.equipment:833 rec.radio.amateur.homebrew:924 rec.radio.amateur.misc:1804 rec.radio.swap:1085

Have a quantity of Test Equipment and Radio Communications Service Manuals, both Commercial & Amateur that I have rescued from the Dumpster. Most of them are in Like New Condition.

Please check my site: www.rodemi.com   for what is available. Click on the MANUALS Heading. I am updating the site as time allows.
I recently retired from the Commercial 2-way radio business and would like these useful manuals to find a good home.

Thanks for looking....Norm VE3CZI
Email me Directly: <insert Call Sign> at arrl.net ....<call sign> is ve3czi

```
From 8966492201503442401
X-Google-Thread: fc2a5,f0768beb2500250f,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!sn-xt-sjc-03!sn-
xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Single Tube Modulator
Date: Thu, 30 Aug 2007 17:54:46 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13dem6fl1r7ok85@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 15
Xref: g2news2.google.com rec.radio.amateur.homebrew:925
```

Is it convenience or the laws of physics that modulators are always two tubes in push pull?

I have an extra 811 and socket and was wondering if there is a way to use this to plate modulate my 811 cw transmitter.

pics of 811 project at http://schmidling.com/radio.htm

js

--

PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

From -2204622051504362086
X-Google-Thread: fc2a5,f0768beb2500250f
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sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Single Tube Modulator
Date: Thu, 30 Aug 2007 18:37:13 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13des6db804rd6f@corp.supernews.com>
References: <13dem6fl1r7ok85@corp.supernews.com>
<iuqed3po4fj91ihe0v1iqfkrbh9lrspl7t@4ax.com>
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 9
Xref: g2news2.google.com rec.radio.amateur.homebrew:927

Push-Pull allows you to runn in other than class A, which is about 35%
efficient. However, class A can result in very good audio.

Some high end audio amplifiers are single ended class A. High power puts
out a lot of heat.

Colin K7FM

From -1212180427830722076
X-Google-Thread: fc2a5,f0768beb2500250f
X-Google-Attributes: gidfc2a5,public,usenet
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nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-
mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <13dem6fl1r7ok85@corp.supernews.com>
<iuqed3po4fj91ihe0v1iqfkrbh9lrspl7t@4ax.com> <13des6db804rd6f@corp.supernews.com>
Subject: Re: Single Tube Modulator
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180

X-RFC2646: Format=Flowed; Response
Message-ID: <ZaLBi.63840$Xa3.15022@attbi_s22>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1188527929 12.219.135.201 (Fri, 31 Aug 2007 02:38:49 GMT)
NNTP-Posting-Date: Fri, 31 Aug 2007 02:38:49 GMT
Organization: AT&T ASP.att.net
Date: Fri, 31 Aug 2007 02:38:49 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:928

"COLIN LAMB" <k7fm@teleport.com> wrote in message
news:13des6db804rd6f@corp.supernews.com...
> Push-Pull allows you to runn in other than class A, which is about 35%
> efficient. However, class A can result in very good audio.
>
> Some high end audio amplifiers are single ended class A. High power puts
> out a lot of heat.
>
> Colin K7FM
>

Back in the year one, Bill Orr, W6SAI, published an article (When QST was
still a technical magazine) on a single 304TL Heising modulator. I built one
to modulate a 4-400A.

Ran class A when you were talking to it, ran class C when you weren't.
Shifted the bias at a syllabic rate by rectifying a bit of the preamp audio
and applying it as forward bias when talking. Worked very well, quite
efficient, and the origin of EBC. The Electronic Bias Control bias shift
seen in 1970 and 80 Alpha RF Amplifiers to hold down plate dissipation for
class AB and B operation.

W4ZCB

>

From 513384393231079874
X-Google-Thread: fc2a5,f0768beb2500250f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k79g2000hse.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Single Tube Modulator
Date: Fri, 31 Aug 2007 09:17:01 -0700
Organization: http://groups.google.com
Lines: 40
Message-ID: <1188577021.276710.184260@k79g2000hse.googlegroups.com>
References: <13dem6fl1r7ok85@corp.supernews.com>

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   <13des6db804rd6f@corp.supernews.com>
   <ZaLBi.63840$Xa3.15022@attbi_s22>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
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X-Trace: posting.google.com 1188577021 6863 127.0.0.1 (31 Aug 2007 16:17:01 GMT)
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NNTP-Posting-Date: Fri, 31 Aug 2007 16:17:01 +0000 (UTC)
In-Reply-To: <ZaLBi.63840$Xa3.15022@attbi_s22>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.6)
Gecko/20070725 Firefox/2.0.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k79g2000hse.googlegroups.com; posting-host=192.25.240.225;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:929
```

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On Aug 30, 7:38 pm, "Harold E. Johnson" <W4...@mchsi.com> wrote:
> "COLIN LAMB" <k...@teleport.com> wrote in message
>
> news:13des6db804rd6f@corp.supernews.com...> Push-Pull allows you to runn in
other than class A, which is about 35%
> > efficient.  However, class A can result in very good audio.
>
> > Some high end audio amplifiers are single ended class A.  High power puts
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>
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> class AB and B operation.
>
> W4ZCB
>
>
```

Which Year One was that, Harold? Where I became a ham many years back, there was a creative fellow in our club who designed a compact AM transmitter using a couple 6146s, one for the RF PA and one for the audio output. They were coupled not by a choke as in Heising, but by a common audio output transformer, available back then much more readily than a modulation transformer, and having the advantage that the DC in the center-tapped winding was (nearly) balanced, avoiding saturation effects in the transformer and allowing the use of a

relatively small transformer. I think Mitch designed that thing in
the mid 50's.

Cheers,
Tom

From 6970950638020354382
X-Google-Thread: fc2a5,f0768beb2500250f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <13dem6fl1r7ok85@corp.supernews.com>
<iuqed3po4fj91ihe0v1iqfkrbh9lrspl7t@4ax.com>
<13des6db804rd6f@corp.supernews.com>   <ZaLBi.63840$Xa3.15022@attbi_s22>
<1188577021.276710.184260@k79g2000hse.googlegroups.com>
Subject: Re: Single Tube Modulator
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <zvXBi.64256$Xa3.53286@attbi_s22>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1188578399 12.219.135.201 (Fri, 31 Aug 2007 16:39:59 GMT)
NNTP-Posting-Date: Fri, 31 Aug 2007 16:39:59 GMT
Organization: AT&T ASP.att.net
Date: Fri, 31 Aug 2007 16:40:00 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:930

> Which Year One was that, Harold? Where I became a ham many years
> back, there was a creative fellow in our club who designed a compact
> AM transmitter using a couple 6146s, one for the RF PA and one for the
> audio output. They were coupled not by a choke as in Heising, but by
> a common audio output transformer, available back then much more
> readily than a modulation transformer, and having the advantage that
> the DC in the center-tapped winding was (nearly) balanced, avoiding
> saturation effects in the transformer and allowing the use of a
> relatively small transformer. I think Mitch designed that thing in
> the mid 50's.
>
> Cheers,
> Tom

Hi Tom. Must have been around 1954, cause I'm sure it was after I came back
from Sunny Athens Greece. (SV0WX) I have the complete QST on disk, if you'd

like to peruse the article, I can go find it for you.

(Yes, and there was another one. Mobile Tube rig, winding up in a 10 Watt
2E26 I think, with something like a 25 Watt transistor audio amplifier for a
modulator. Part of THAT was rectified and used for the B+ for the rig. I
started on building that and then found a vibrator supply.)

Regards
W4ZCB

From -1605972508519326771
X-Google-Thread: fc2a5,f0768beb2500250f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r29g2000hsg.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Single Tube Modulator
Date: Fri, 31 Aug 2007 12:14:23 -0700
Organization: http://groups.google.com
Lines: 42
Message-ID: <1188587663.577008.301210@r29g2000hsg.googlegroups.com>
References: <13dem6fl1r7ok85@corp.supernews.com>
   <iuqed3po4fj91ihe0v1iqfkrbh9lrspl7t@4ax.com>
   <13des6db804rd6f@corp.supernews.com>
   <ZaLBi.63840$Xa3.15022@attbi_s22>
   <1188577021.276710.184260@k79g2000hse.googlegroups.com>
   <zvXBi.64256$Xa3.53286@attbi_s22>
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X-Trace: posting.google.com 1188587663 699 127.0.0.1 (31 Aug 2007 19:14:23 GMT)
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NNTP-Posting-Date: Fri, 31 Aug 2007 19:14:23 +0000 (UTC)
In-Reply-To: <zvXBi.64256$Xa3.53286@attbi_s22>
User-Agent: G2/1.0
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Gecko/20070725 Firefox/2.0.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: r29g2000hsg.googlegroups.com; posting-host=192.25.240.225;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:931

On Aug 31, 9:40 am, "Harold E. Johnson" <W4...@mchsi.com> wrote:
> > Which Year One was that, Harold? Where I became a ham many years
> > back, there was a creative fellow in our club who designed a compact
> > AM transmitter using a couple 6146s, one for the RF PA and one for the
> > audio output. They were coupled not by a choke as in Heising, but by
> > a common audio output transformer, available back then much more

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> > the DC in the center-tapped winding was (nearly) balanced, avoiding
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> > relatively small transformer.  I think Mitch designed that thing in
> > the mid 50's.
>
> > Cheers,
> > Tom
>
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> from Sunny Athens Greece. (SV0WX) I have the complete QST on disk, if you'd
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>
> (Yes, and there was another one. Mobile Tube rig, winding up in a 10 Watt
> 2E26 I think, with something like a 25 Watt transistor audio amplifier for a
> modulator. Part of THAT was rectified and used for the B+  for the rig. I
> started on building that and then found a vibrator supply.)
>
> Regards
> W4ZCB

Oh, the good old days when you could mention vibrators in polite
company and not get odd looks, and when the whir of a dynamotor likely
meant someone had keyed up to transmit.

I suppose Mitch got some of his ideas from articles in that era, but
for sure the design was his own, with quite a few innovations as far
as anyone around there knew.

No need to look any of the old QST stuff up for me.  I'm too busy
having fun with all this new-fangled stuff, trying to get IIP3s above--
well, above some pretty large numbers.

Cheers,
Tom




From 6919573014010453377
X-Google-Thread: fc2a5,a82623cf4c93a2cd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!g4g2000hsf.googlegroups.com!not-for-
mail
From:  MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Experimental AMPS Micro Base Station project
Date: Fri, 31 Aug 2007 21:55:05 -0700
Organization: http://groups.google.com
Lines: 10
Message-ID: <1188622505.142065.85880@g4g2000hsf.googlegroups.com>
References: <1188108285.994490.293290@i38g2000prf.googlegroups.com>
   <1188147927.849566.145130@x35g2000prf.googlegroups.com>
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NNTP-Posting-Host: 222.155.172.174
Mime-Version: 1.0
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NNTP-Posting-Date: Sat, 1 Sep 2007 04:55:05 +0000 (UTC)
In-Reply-To: <1188147927.849566.145130@x35g2000prf.googlegroups.com>
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=222.155.172.174;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:932

Hi All,

Various updates to the web page are complete, including schematics.

http://www.geocities.com/markaren10/AMP_uBase_Station/
Experimental_AMPS_uBase_Station_2007-08-26.html

Regards,

Mark

From 5641877961676889561
X-Google-Thread: fc2a5,6d87f0ce2d952787
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.islandhosting.com!
news.islandhosting.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 01 Sep 2007 02:05:01 -0500
Message-Id: <081706290f8fffa78e4a116b1804afb4@grapevine.islandnet.com>
From: Robert Smits <bob@rsmits.ca>
Subject: Re: Kenwood TS-820s finals.
Newsgroups: rec.radio.amateur.homebrew
Date: Sat, 01 Sep 2007 00:02:41 -0700
References: <46d3ad20@clear.net.nz>
<1188294149.939393.133960@o80g2000hse.googlegroups.com>
<slrnfd7sdn.142.gsm@cable.mendelson.com>
<1188296166.101830.8610@w3g2000hsg.googlegroups.com>
<m26cd39g66dss42u5nnulhn850229c1cr0@4ax.com>
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Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Organization: Organization is overrated
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aE5Iu7Ey3zV3TyAIapJ368EDGm4HXY1RMA=
X-Complaints-To: abuse@islandnet.com
X-DMCA-Complaints-To: abuse@islandhosting.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:933

Roger (K8RI) wrote:

> On Tue, 28 Aug 2007 03:16:06 -0700, francesco.messineo@gmail.com
> wrote:
>
>>On 28 Ago, 11:59, g...@mendelson.com (Geoffrey S. Mendelson) wrote:
>>>  francesco.messi...@gmail.com wrote:
>>> > what exactly are "12 volt 6146B's" ?
>>> > 6146B have 6.3V heater. What tube are you using exactly?
>>>
>>> There were several variants with different heater voltages. I once
>>> bought a bunch of them cheaply at a hamfest. If you were building
>>> your own rig and could set the heater voltage, they were well worth
>>> the price.
>>>
>>
>>yes, I remember, but afair they had different "names", surely not
>>marked as 6146B.
>
> 6146W IIRC

Nope. A 6146W is just a ruggedized version of a 6146B. Same pinout,
voltages, everything. I have two of them in my Kenwood TS820S, replacing
S2001s.

http://www.rfparts.com/tubeapp.html

Bob.



From 8862263280888980735
X-Google-Thread: fc2a5,4b406b84bfbdda55,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!50g2000hsm.googlegroups.com!not-for-
mail
From:  ushyfr8ewyrfiew8@yahoo.com
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: select meet . locaion meet . locadionselect meet . locadion select meet
Date: Sat, 01 Sep 2007 16:13:27 -0000
Organization: http://groups.google.com
Lines: 355
Message-ID: <1188663207.438559.262190@50g2000hsm.googlegroups.com>
NNTP-Posting-Host: 77.49.36.16
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1188663207 11665 127.0.0.1 (1 Sep 2007 16:13:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 1 Sep 2007 16:13:27 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1; .NET
CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506;
InfoPath.2),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 50g2000hsm.googlegroups.com; posting-host=77.49.36.16;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:934

http://www.fastestpersonals.com/casual-sex-encou-9d602c1fd0502fb831befa24c8=
f7100d.html
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c7ffd1.html
http://www.fastestpersonals.com/casual-sex-encou-a25598994103872827e6aab788=
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734e48.html
http://www.fastestpersonals.com/casual-sex-encou-ae9cdacd2ee16f2f747d2941d0=
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http://www.fastestpersonals.com/casual-sex-encou-b6a624fe5de7afe2e592205ae1=
d0cb81.html
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http://www.fastestpersonals.com/casual-sex-encou-d6b58a6bb851bacf579a303cc9=
c9f7bf.html
http://www.fastestpersonals.com/casual-sex-encou-d8ad9258bfebe147efc52ef355=
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aae8d1.html
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8c297e.html
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569651.html
http://www.fastestpersonals.com/casual-sex-encou-e73b42aee541b975d641b546d5=
da0a08.html
http://www.fastestpersonals.com/casual-sex-encou-e7f86771a6dc5c19d8d350bf8e=
e66c45.html
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4937ca.html
http://www.fastestpersonals.com/casual-sex-encou-ee7eed1042492ff9734778921e=
d58ff4.html
http://www.fastestpersonals.com/casual-sex-encou-eedfb347c4a7fe2d226aa631b7=
454128.html
http://www.fastestpersonals.com/casual-sex-encou-ef083221efa5acb0bbdf0b2645=
449ecd.html
http://www.fastestpersonals.com/casual-sex-encou-ef1c064c85c5079cab1e6a50ea=
c56ef9.html
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womans . naked canadian young womans . international online date . date australia . chinese new year dates . internetdate . mature photo personals . best date website . date talk rooms . gods gift to us is canadian young womans . boys and young womans club of canada . date agencies uk . date internet service . date essex . uk singles . teen online date . talk . mature talk room . www date co uk . speed date . www date online . chinese new year dates 2007 . mature date finder friend personals . best date spots . internet date website . on line date service . online sex date sites . date online . date in uk . catholic . online date stories . mature sex dates . online date . date agencies . online date community . sexy date . great expectations date . uk photo personals . top date sites . date my mom uk . christian singles . nz online date . canadian young woman ashleigh . mature sex date . australia date . top 10 reasons to date a dancer . young woman guides canada . young woman guides 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pictures trial , pictures trial date , pictures tricks , pictures
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date , reduction date , repair date , replacement date , report date ,
retail price date , review date , sample date , second-hand date ,
secret date , selection date , service date , services advantage ,
services advantage date , services advice , services advice date ,
services advise , services advise date , services advisor , services
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article , services article date , services assistance , services
assistance date , services basics , services basics date , services
beginner , services beginner date , services catalog , services
catalog date , services classic , services classic date , services
collection , services collection date , services combination ,
services combination date , services comments , services comments
date , services comparison , services comparison date , services
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From -5680497734201581160
X-Google-Thread: 10ed5f,6f144a0b500a8af3,start
X-Google-Thread: 114a57,6f144a0b500a8af3,start
X-Google-Thread: 108122,6f144a0b500a8af3,start
X-Google-Thread: fc2a5,6f144a0b500a8af3,start
X-Google-Thread: 107ada,6f144a0b500a8af3,start
X-Google-Thread: f64c6,6f144a0b500a8af3,start
X-Google-Attributes: gid10ed5f,gid114a57,gid108122,gidfc2a5,gid107ada,gidf64c6,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!lon-transit.news.telstra.net!lon-in.news.telstra.net!news.telstra.net!news-server.bigpond.net.au!53ab2750!not-for-mail
From: "Jack VK2CJC" <vk2cjc@look-me-up-at-qrz.com>
Newsgroups: alt.ham-radio,alt.ham-radio.hf,rec.ham-radio,rec.radio.amateur,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,uk.radio.amateur
Subject: Oak Hills Research - new yahoo discussion group
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <ztjCi.29407$4A1.13460@news-server.bigpond.net.au>
Date: Sat, 01 Sep 2007 19:56:15 GMT
NNTP-Posting-Host: 144.134.243.83
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1188676575 144.134.243.83 (Sun, 02 Sep 2007 05:56:15 EST)
NNTP-Posting-Date: Sun, 02 Sep 2007 05:56:15 EST
Organization: BigPond Internet Services
Xref: g2news2.google.com alt.ham-radio:171 alt.ham-radio.hf:41 rec.radio.amateur.equipment:840 rec.radio.amateur.homebrew:935 rec.radio.amateur.misc:1832 uk.radio.amateur:13675

http://groups.yahoo.com/group/OHR/

A group for all users/builders of Oak Hills Research QRP kits.

--
Jack VK2CJC / MM0AXL
FISTS #9666
Mid North Coast Amateur Radio Group
www.mncarg.org

From -1113702136515605391
X-Google-Thread: fc2a5,a04d585a393bb43a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!border-1.ams.xsnews.nl!feed.xsnews.nl!border-1.ams.xsnews.nl!216.196.110.149.MISMATCH!border2.nntp.ams.giganews.com!nntp.giganews.com!feeder2.news.saunalahti.fi!feeder1.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 1500w Mobile
Message-ID: <abtkc31e8j4h2pmo6vloq8e9pbj24ed0b2@4ax.com>
References: <1187616592.438900.108130@w3g2000hsg.googlegroups.com> <facvma$q8i$1@news.albasani.net>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 35
Date: Tue, 21 Aug 2007 09:40:15 +0300
NNTP-Posting-Host: 195.197.82.66
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1187678403 195.197.82.66 (Tue, 21 Aug 2007 09:40:03 EEST)
NNTP-Posting-Date: Tue, 21 Aug 2007 09:40:03 EEST
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:834

On Mon, 20 Aug 2007 14:05:13 -0700, John Smith I
<assemblywizard@gmail.com> wrote:

>sales@transmittersrus.com wrote:
>
> > ...
>> Your thoughts on "Son of Metron".
>>
>> Phil G4ZOW
>>
>
>Fill the trunk with batteries, run two 100 amp alternators in parallel,
>solid state batteries switch for the batteries and buy plenty of 0 or 00
>stranded wire and expect for a lot more people to hear you then you can
>hear ... blah, blah, blah.

Put the extra batteries in series, so you can use some decent
amplifiers requiring 60-100 V. Since it is unlikely that you are going
to transmit all the time, the 12/60 V battery charger inverter can be
rated at a lower power level.

While it may be possible to build mobile antennas that efficiently radiates most of the transmitter power at VHF/UHF and perhaps on the upper HF bands, the efficiency of a mobile antenna on the lower HF bands is very bad, most of the power would be dissipated in the antenna structures.

On lower HF bands, the car body is not a sufficient ground plane, so there might be high RF voltages in the car body compared to ground, which could cause nasty RF-burns if operated on a parking lot and someone touches the body of the car. Also the modern electronics in most cars might not work in such environment.

Paul OH3LWR

From 1137914230878146974
X-Google-Thread: fc2a5,a04d585a393bb43a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!out01a.usenetserver.com!news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-in-02.newsfeed.easynews.com!easynews.com!easynews!sn-xt-sjc-03!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Roger (K8RI)" <validaddress@my.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 1500w Mobile
Date: Tue, 21 Aug 2007 04:11:16 -0400
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <ce7lc3d0c6usknknhq9qm4o5ves9lks1q8@4ax.com>
References: <1187616592.438900.108130@w3g2000hsg.googlegroups.com>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000767-2, 08/20/2007), Outbound message
X-Antivirus-Status: Clean
X-Complaints-To: abuse@supernews.com
Lines: 28
Xref: g2news2.google.com rec.radio.amateur.homebrew:835

On Mon, 20 Aug 2007 06:29:52 -0700, sales@transmittersrus.com wrote:

>It's that mad time of year.
>
>Wanting to move up from my current Metron mobile amp what thoughts on
>basic layout of a 14v DC powered amp that could run the full legal
>limit?
>
>Would you run say, 16 Toshiba 2SC2879 devices (within their total
>dissipation specs) to keep IMD halfway reasonable or would you
>consider an on-board switcher PSU up to say 80-100v to use some more

>modern FET's. Is this at all feasable?
>
>Of course a 'stiff' DC supply is required whichever way you go and the
>extra few dB in signal is questionable as to whether it's worth all
>the trouble.

I'd series the batteries for 24 volts at least. That makes a much more manageable system.

I'm currently running a KW PEP out with just 4 transistors.

>
>I think a Hi-Q antenna would handle the power so that's not a concern.
>
>Your thoughts on "Son of Metron".
>
>Phil G4ZOW

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From -2437900656642775О3
X-Google-Thread: fc2a5,4725933a8c9a27e,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: <g8ywk@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Howes DFD5 Counter help
Date: Tue, 21 Aug 2007 11:57:38 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Lines: 9
Message-ID: <46cab906$0$7525$88260bb3@free.teranews.com>
NNTP-Posting-Date: 21 Aug 2007 10:05:58 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:836
```

Does anyone have a copy of the circuit diagram for a Howes DFD5 frequency counter module. I recently aquired one of these and I would like to get it working again. All searches on the web have drawn a blank.

Regards Bill
g8ywk@yahoo.com

--
Posted via a free Usenet account from http://www.teranews.com

From -4076534846545901032
X-Google-Thread: fc2a5,f2a8311b2aab7c4e
X-Google-Thread: fa029,f2a8311b2aab7c4e
X-Google-Attributes: gidfc2a5,gidfa029,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!sn-xt-sjc-02!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.scanner
Subject: Re: Ramsey AR-1C vhf airband kit
Date: Tue, 21 Aug 2007 09:37:00 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13cm55df3vmk86d@corp.supernews.com>
References: <fa9ekg$74i$1$830fa7a5@news.demon.co.uk>
<46c84be1$0$26696$ecde5a14@news.coretel.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-Complaints-To: abuse@supernews.com
Lines: 27
Xref: g2news2.google.com rec.radio.amateur.homebrew:837 rec.radio.scanner:487

"Radiosrfun" <Radiosrfun@radiosrfun.com> wrote in message
news:46c84be1$0$26696$ecde5a14@news.coretel.net...

> I built a couple of their kits - and they worked for what they were intended
> to do. However - a friend of mine built a "receiver" kit - and it really
> sucked. He called Ramsey to see about getting it "repaired". They wanted
> like $75 to do so. He paid almost $50 for the kit. He didn't feel like
> shelling out another wad of cash - so he junked it.

That's the problem with building some kits... to troubleshoot them yourself, you may need equipment that many hobbyists aren't likely to have (e.g., an RF signal generator in this case), yet a company probably really does need to charge you at least $50/hour to have a tech sit down and troubleshoot something that didn't work.

What your friend should do is sit down and spend, e.g., half an hour of his own time going through and verifying all the components were inserted correctly and all the solder joints look good. If that doesn't help, he can probably still sell the kit on eBay for, say, $10 or more -- some people enjoy the challenge of fixing dead boards.

I remember the days when those offering kits could only expect a kit builder to have a multimeter and not even an oscilloscope -- some kits included quite clever internal circuitry to help one align or fine tune their settings.

---Joel

```
From -9029377061554438099
X-Google-Thread: fc2a5,f2a8311b2aab7c4e
X-Google-Thread: fa029,f2a8311b2aab7c4e
X-Google-Attributes: gidfc2a5,gidfa029,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.251.MISMATCH!transit4.readnews.com!news-xxxfer.readnews.com!
textspool1.readnews.com!bins3.readnews.com!news-out.readnews.com!
postnews3.readnews.com!news.coretel.net!not-for-mail
From: "Radiosrfun" <Radiosrfun@radiosrfun.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.scanner
References: <fa9ekg$74i$1$830fa7a5@news.demon.co.uk>
<46c84be1$0$26696$ecde5a14@news.coretel.net> <13cm55df3vmk86d@corp.supernews.com>
Subject: Re: Ramsey AR-1C vhf airband kit
Date: Tue, 21 Aug 2007 12:54:22 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Lines: 34
Message-ID: <46cb18fa$0$26710$ecde5a14@news.coretel.net>
Organization: CoreTel
NNTP-Posting-Host: e1a5007b.news.coretel.net
X-Trace:
DXC=09Z535h9:BbMTO]N;F60VlcYX6N<OEXQkG8ijjfB3EgmM<BT@AV6N5l:_Q\eIg8K>o9Pkl0jN[:7k
X-Complaints-To: abuse@coretel.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:838 rec.radio.scanner:488

"Joel Kolstad" <JKolstad71HatesSpam@yahoo.com> wrote in message
news:13cm55df3vmk86d@corp.supernews.com...
> "Radiosrfun" <Radiosrfun@radiosrfun.com> wrote in message
> news:46c84be1$0$26696$ecde5a14@news.coretel.net...
>> I built a couple of their kits - and they worked for what they were
>> intended to do. However - a friend of mine built a "receiver" kit - and
>> it really sucked. He called Ramsey to see about getting it "repaired".
>> They wanted like $75 to do so. He paid almost $50 for the kit. He didn't
>> feel like shelling out another wad of cash - so he junked it.
>
> That's the problem with building some kits... to troubleshoot them
> yourself, you may need equipment that many hobbyists aren't likely to have
> (e.g., an RF signal generator in this case), yet a company probably really
> does need to charge you at least $50/hour to have a tech sit down and
> troubleshoot something that didn't work.
>
> What your friend should do is sit down and spend, e.g., half an hour of
> his own time going through and verifying all the components were inserted
> correctly and all the solder joints look good.  If that doesn't help, he
> can probably still sell the kit on eBay for, say, $10 or more -- some
> people enjoy the challenge of fixing dead boards.
```

>
> I remember the days when those offering kits could only expect a kit
> builder to have a multimeter and not even an oscilloscope -- some kits
> included quite clever internal circuitry to help one align or fine tune
> their settings.
>
> ---Joel
>
>

I don't think he has it anymore!

From 7546829019522369163
X-Google-Thread: fc2a5,a04d585a393bb43a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!panix!
panix2.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 1500w Mobile
Date: Tue, 21 Aug 2007 13:24:42 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 36
Message-ID: <Pine.NEB.4.64.0708211321380.2617@panix2.panix.com>
References: <1187616592.438900.108130@w3g2000hsg.googlegroups.com>
NNTP-Posting-Host: panix2.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader1.panix.com 1187717084 22865 166.84.1.2 (21 Aug 2007 17:24:44 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 21 Aug 2007 17:24:44 +0000 (UTC)
In-Reply-To: <1187616592.438900.108130@w3g2000hsg.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:839

You can run anything you want as long as you have the resources. Some 50+ years ago, in an old Radio Handbook (Bill Orr?), there was (I think) a discussion and photographs of a 1kw SSB transceiver and it was using a water-cooled jacketed metal ceramic tube and for extra power, a three phase arc welder generator under the hood. The rest was a piece of cake.

P.S. the circuitry was pretty simple, but watch out for the water cooling and pump and reservoir (not for the faint of heart).

===== no change to below, included for reference and context =====

On Mon, 20 Aug 2007, sales@transmittersrus.com wrote:

```
> It's that mad time of year.
>
> Wanting to move up from my current Metron mobile amp what thoughts on
> basic layout of a 14v DC powered amp that could run the full legal
> limit?
>
> Would you run say,  16 Toshiba 2SC2879 devices (within their total
> dissipation specs) to keep IMD halfway reasonable or would you
> consider an on-board switcher PSU up to say 80-100v to use some more
> modern FET's. Is this at all feasable?
>
> Of course a 'stiff' DC supply is required whichever way you go and the
> extra few dB in signal is questionable as to whether it's worth all
> the trouble.
>
> I think a Hi-Q antenna would handle the power so that's not a concern.
>
> Your thoughts on "Son of Metron".
>
> Phil G4ZOW
>
>


From 7471253887322561595
X-Google-Thread: fc2a5,6c30c746ef220c9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Low & Medium Frequency Scrapbook 1983 edition
Date: 21 Aug 2007 14:52:19 -0500
Organization: Kansas State University
Lines: 13
Message-ID: <faffpj$1qp@unix1.cc.ksu.edu>
References: <AWoyi.23759$ie3.19043@newsfe3-gui.ntli.net>
NNTP-Posting-Host: unix1.cc.ksu.edu
X-Trace: cnn.cns.ksu.edu 1187725944 27195 129.130.12.3 (21 Aug 2007 19:52:24 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Tue, 21 Aug 2007 19:52:24 +0000 (UTC)
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:840

"Theo" <theodore.twyler@ntlworld.com> writes:
>Does anyone have a copy of this book, or know where I can obtain one please?

Well, I don't have that "new" version (wasn't even aware of it),
but I DO have undated "the low and medium frequency radio scrapbook"
                  and "addendum '77/'78 for the low and medium ....",
if either of those might help.
```

--
--Myron A. Calhoun.
Five boxes preserve our freedoms: soap, ballot, witness, jury, and cartridge
NRA Life Member & Certified Instructor for Rifle, Pistol, & Home Firearm Safety
Also Certified Instructor for the Kansas Concealed-Carry Handgun (CCH) license

From 4936762670895077722
X-Google-Thread: fc2a5,a04d585a393bb43a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i38g2000prf.googlegroups.com!not-for-mail
From: Transmitter Man <phil@transmittersrus.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 1500w Mobile
Date: Wed, 22 Aug 2007 02:56:04 -0700
Organization: http://groups.google.com
Lines: 20
Message-ID: <1187776564.852976.134110@i38g2000prf.googlegroups.com>
References: <1187616592.438900.108130@w3g2000hsg.googlegroups.com>
   <Pine.NEB.4.64.0708211321380.2617@panix2.panix.com>
NNTP-Posting-Host: 89.243.221.37
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1187776565 29591 127.0.0.1 (22 Aug 2007 09:56:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 22 Aug 2007 09:56:05 +0000 (UTC)
In-Reply-To: <Pine.NEB.4.64.0708211321380.2617@panix2.panix.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i38g2000prf.googlegroups.com; posting-host=89.243.221.37;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:841

Thanks for the feedback, however I'm not so much interested in charging systems as your views on generating the RF power out of solid state devices.

Roger,

I appreciate the advantages of running higher voltage devices but going that route I'd prefer to convert from 14 up to at least 50v.

Do you have details of your amp anywhere up on a web page by chance.

I believe G3YXM runs a similar system.

Anyone of you into high power solid state RF design?

Phil G4ZOW

```
From -6925402410551489584
X-Google-Thread: fc2a5,6c30c746ef220c9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!x40g2000prg.googlegroups.com!not-for-
mail
From:  "JRCCrabtree@gmail.com" <JRCCrabtree@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Low & Medium Frequency Scrapbook 1983 edition
Date: Wed, 22 Aug 2007 12:26:42 -0700
Organization: http://groups.google.com
Lines: 18
Message-ID: <1187810802.144916.304220@x40g2000prg.googlegroups.com>
References: <AWoyi.23759$ie3.19043@newsfe3-gui.ntli.net>
   <faffpj$1qp@unix1.cc.ksu.edu>
NNTP-Posting-Host: 205.188.116.144
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1187810802 32016 127.0.0.1 (22 Aug 2007 19:26:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 22 Aug 2007 19:26:42 +0000 (UTC)
In-Reply-To: <faffpj$1qp@unix1.cc.ksu.edu>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-dtc-th10.proxy.aol.com[CDBC70EA] (Prism/1.2.1), HTTP/
1.1 cache-dtc-ac15.proxy.aol.com[CDBC7490] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: x40g2000prg.googlegroups.com; posting-host=205.188.116.144;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:842
```

```
On Aug 21, 2:52?pm, mcalh...@ksu.edu wrote:
> Well, I don't have that "new" version (wasn't even aware of it),
> but I DO have undated "the low and medium frequency radio scrapbook"
>                   and "addendum '77/'78 for the low and medium ....",
> if either of those might help.
>
> --Myron A. Calhoun.
```

There were a total of 10 editions of this book.   The 3rd was published in 1977. The 4th was published in 1983. I think that there was an edition, possibly the 8th, published in 1992. The 9th edition was published in 1994. The last was published in 1996. Ken Cornell died in 1997.

HTH and 73

John KC0G

From -2757267992779936599
X-Google-Thread: fc2a5,6c30c746ef220c9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder2-2.proxad.net!62.253.162.218.MISMATCH!news-in.ntli.net!newsrout1-
win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!newsfe1-
win.ntli.net.POSTED!53ab2750!not-for-mail
From: "Theo" <theodore.twyler@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
References: <AWoyi.23759$ie3.19043@newsfe3-gui.ntli.net>
<faffpj$1qp@unix1.cc.ksu.edu>
<1187810802.144916.304220@x40g2000prg.googlegroups.com>
Subject: Re: Low & Medium Frequency Scrapbook 1983 edition
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <tP1zi.23857$rr5.12309@newsfe1-win.ntli.net>
Date: Wed, 22 Aug 2007 21:23:37 GMT
NNTP-Posting-Host: 82.9.82.106
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe1-win.ntli.net 1187817817 82.9.82.106 (Wed, 22 Aug 2007 22:23:37
BST)
NNTP-Posting-Date: Wed, 22 Aug 2007 22:23:37 BST
Organization: NTL
Xref: g2news2.google.com rec.radio.amateur.homebrew:843

It is the 4th edition (1983) version of the Low & Medium Frequency Scrapbook
that I am after.
I am reliably informed this edition has 13 pages of info on a
build-it-yourself coil winder.
However, if anyone has a copy of another edition with the same info, I would
be very interested.

From 1258759143638772687
X-Google-Thread: fc2a5,f2a8311b2aab7c4e
X-Google-Thread: fa029,f2a8311b2aab7c4e
X-Google-Attributes: gidfc2a5,gidfa029,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!

post02.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.scanner
References: <fa9ekg$74i$1$830fa7a5@news.demon.co.uk>
Subject: Re: Ramsey AR-1C vhf airband kit
Date: Thu, 23 Aug 2007 03:18:56 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Lines: 19
Message-ID: <46cd34dc$0$28807$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 71.68.80.78
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:844 rec.radio.scanner:506

"Albert" <albert@albert.force9.co.uk> wrote in message
news:fa9ekg$74i$1$830fa7a5@news.demon.co.uk...
> Hi,
>
> Anyone built this one? How stable was it?
>
> Albert
>
>

I have one, didnt build it.
Never measured the specs but I know I can hear AC a hundred miles away.
There is no front end on the thing and its subject to image problems and
interference from strong FM stations. You get what you pay for.

Jimmie

From 4857048182966832654
X-Google-Thread: fc2a5,a04d585a393bb43a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l22g2000prc.googlegroups.com!not-for-mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 1500w Mobile
Date: Thu, 23 Aug 2007 05:29:10 -0700
Organization: http://groups.google.com
Lines: 30
Message-ID: <1187872150.267784.133640@l22g2000prc.googlegroups.com>
References: <1187616592.438900.108130@w3g2000hsg.googlegroups.com>

```
   <Pine.NEB.4.64.0708211321380.2617@panix2.panix.com>
   <1187776564.852976.134110@i38g2000prf.googlegroups.com>
NNTP-Posting-Host: 97.84.159.244
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1187872150 16512 127.0.0.1 (23 Aug 2007 12:29:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 23 Aug 2007 12:29:10 +0000 (UTC)
In-Reply-To: <1187776564.852976.134110@i38g2000prf.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; IEMB3; IEMB3),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l22g2000prc.googlegroups.com; posting-host=97.84.159.244;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:845
```

On Aug 22, 5:56 am, Transmitter Man <p...@transmittersrus.com> wrote:

> Thanks for the feedback, however I'm not so much interested in
> charging systems as your views on generating the RF power out of solid
> state devices.
>
> Roger,
>
> I appreciate the advantages of running higher voltage devices but
> going that route I'd prefer to convert from 14 up to at least 50v.
>
> Do you have details of your amp anywhere up on a web page by chance.
>
> I believe G3YXM runs a similar system.
>
> Anyone of you into high power solid state RF design?
>
> Phil G4ZOW

Phil, google on 'cb high power keydown shootout pills', or similar combinations..

Just for a hint start with:
http://www.davemade.com/mobile.htm
and
http://video.google.com/videoplay?docid=1996452407910943036

It's a big world and most of us hams have tunnel vision...

denny

```
From 281561385152485278
X-Google-Thread: fc2a5,243f3323119eeda0,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!postnews.google.com!x35g2000prf.googlegroups.com!not-for-mail
From: "Gian, I7SWX" <i7swx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: A FRONT-END WITH AN IIP3 > +50dBm ?
Date: Thu, 23 Aug 2007 07:51:47 -0700
Organization: http://groups.google.com
Lines: 48
Message-ID: <1187880707.080403.90700@x35g2000prf.googlegroups.com>
NNTP-Posting-Host: 82.53.12.157
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1187880708 9778 127.0.0.1 (23 Aug 2007 14:51:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 23 Aug 2007 14:51:48 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: x35g2000prf.googlegroups.com; posting-host=82.53.12.157;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:846

Dear friends,

A Front-End with an IP3 over +50dBm?

Some of you may think ..."it's a joke ! Gian 's brain got heated-up by the South Italian sunshine" .... Maybe....

Our friend Martein, PA3AKE, as you know, has done quite an important work on looking and measuring performances associated to the H-Mode Mixer with different kind of switches starting from the FST3125 and ending with the FSA3157, resulting with IP3 around +50dBm. But what can we do with a mixer like that when front-end Band pass filters may have problems to reach an IP3 of +40dBm (see the CDG2000 input coils and transformers IMD limitation) without talking about the post mixer roofing filter that may not even reach an IP3 of +30dBm.

Well Martein has been continuing his silent work on input Band Pass Filters and roofing xtal filters. He has just published his findings on the input BPF, at the moment the one for 40 meters band, and more important how to bring the roofing filters IP3 over +50dBm !!!
YES... maybe my brain has been heated up but Martein is living in Holland and the sunshine heat is more mitigated there ...

He still has to do some more work, particularly on the front-end BP filters, but he has certainly done a few things very important:

1)   The result is an MDS of -133dBm in SSB bandwidth and an IIP3 of +51,2dBm resulting in an IMD3DR of 122.8dB on 40M. !!!!

2)   He has put a lot of efforts to write the associated documentation

for the benefit of all of us. You will be surprised when reading all his measurements and how he solved problems.

3)   As Colin Horrabin, G3SBI , the inventor of the H-Mode Mixer, said: Martein's effort is the first he knows to break the 120dB IMD3DR boundary!!! (real life figures not simulation)

Martein has also rearranged and updated is web page, enjoy the visit:

http://www.xs4all.nl/~martein/pa3ake/hmode/index.html

The old mixers are fighting back Hi!

73

Gian
I7SWX

From 6037427588084181473
X-Google-Thread: fc2a5,60f2b7d9efeb2481,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: My vacuum tube homebrew transmitter
Date: Thu, 23 Aug 2007 20:26:18 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 94
Message-ID: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com>
NNTP-Posting-Host: panix2.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader1.panix.com 1187915179 11177 166.84.1.2 (24 Aug 2007 00:26:19 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 24 Aug 2007 00:26:19 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.homebrew:847

FYI, FWIW...

As I recently became retired my interests have evolved towards building homebrew tube gear. Reasons: i) simplicity in circuitry, ii) comparatively large tubes & sockets make soldering easier, iii) accidental slip of the test prod might not kill a tube but might a transistor, iv) yeah, I like to see those filaments glow, too, v) can still get those tubes but some transistors you can't find anywhere, v) throw-away technology (boards) is bad ecology...give me discrete devices any day, and vi) with high power heat sinks, silicon compound for conduction of heat (if it gets on your fingers, its hard to get it off) is needed and that damned metal can getdamned hot.

I've been building a tube SSB transmitter for about 1-2 years now (parts of it can be seen at http://www.panix.com/~asd) and ends up with a pair of 813s in grounded-grid, driven by a single 811a in G-G, lots of home brew antenna tuners, and Icom 707 for the moment SSB transciever.

The homebrew SSB exciter lineup is not yet pictured, but at its current stage of construction is almost ready to go on the air. Generate DSB at 2 mHz with 6AL5 balanced modulator, upconvert by mixing with 7 mHz to 9 mHz (6BE6), use McCoy 9 mHz crystal filter (somebody gave it to me 25 years ago) to shave off the desired sideband, mix (6SA7) with 5 mHz local oscilator (by doubled 2.5 mHz from old war surplus Collins 70H3 VFO [from Fair Radio Sales when they had them, they ran out years ago]) to get 4 mHz (75 meters, my favorite ragchew band) which the scope shows to be about 5-10 mv, and goes into two 6C4s (triodes, grounded cathode) and then into a 6AG7 & 6146. I am at the point where I need to make a RF transformer to take the output of the 6146 to drive two more 6146s in parallel to get the ten watts I need to drive the G-G 811a. Yes, if I could optimize everything better, I could use less tubes. But, I preferred to make modules (lots of stages are built inside of old computer power supply cabinets (they are about 6x6x4 or so, and nice to work with, cheap at hamfests at $1 each or so). All the gear is full of those old D'arsonval "Frankenstein"-type (real) meters (not this LED crap), so I can keep monitoring practically all the voltages on anything. Its not very pretty to look at, but its a whole lot easier to work on than any of that new gear out that surely has thousands of transistors and hundreds of chips (?).

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I started as a novice in 1959. Had a Knight kit T-50 and Knight R-100 receiver, later got a DX-40. Mostly liked to ragchew with locals on ten meters AM at the time. Lots of find memories. Lots of SWLing.

I'd like to hear from other homebrewers, HFers, ragchewers and learn if ther are any 75 meter nets for homebrewers/tubers/etc. I look at all this new gear coming out (for thousands of dollars) with hundreds of buttons, knobs, and "thangs" on them, and big thick manuals you have to read to figure out how to push the buttons (once, press twice, press and hold?, press and hold one, then turn on the power switch? Etc? Secret "reboot" buttons hidden somewhere. Built in DRM, DCMA, spyware? Too?). What happened to old-fashioned skill? 50 years ago guys worked the world with a crystal and a single 6L6 and straight key. Now, they are all couch potatoes in front of a black box that looks like its from outer space. ;-)

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After that, I plan to build a tube receiver and maybe even build a crystal lattice filter, and try to build a stable VFO.

Art, W4PON
Member, QCWA
~99.9% of my time with soldering iron & screwdriver, 0.1% of my time in ragchewing.

From -2774836244232136904
X-Google-Thread: fc2a5,60f2b7d9efeb2481
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 23 Aug 2007 20:17:28 -0500
Date: Fri, 24 Aug 2007 01:17:28 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My vacuum tube homebrew transmitter
References: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com>
In-Reply-To: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <67qdnbRAWP81rFPbnZ2dnUVZ_hqdnZ2d@bright.net>

Lines: 15
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NNTP-Posting-Host: 64.33.199.218
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qdFkQ6RgfLBU2lSJ14Xn0Yc3iJ4QfsOCC9q7k+J!
mwny04383ZeiabF2NvwCja9+JiElU0xhjzfBBjZEdmLYsMYjGpEy8/ZkyfNguVzdJZXaW7XATHg1!
tPZUqXHR+w==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:848

Might not kill a tube, but it could kill a builder! Be careful!!

Scott
N0EDV

Straydog wrote:
>
> FYI, FWIW...
>
> As I recently became retired my interests have evolved towards building
> homebrew tube gear. Reasons:

iii) accidental slip of the
> test prod might not kill a tube but might a transistor,

From 3682627514336352663
X-Google-Thread: fc2a5,60f2b7d9efeb2481
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!novia!
news1.optus.net.au!optus!newsfeeder.syd.optusnet.com.au!news.optusnet.com.au!not-
for-mail
From: "George McLeod" <georgemcleod@optusnet.com.au>
Newsgroups: rec.radio.amateur.homebrew
References: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com>
Subject: Re: My vacuum tube homebrew transmitter
Date: Fri, 24 Aug 2007 19:24:30 +1000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1506
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1506
Lines: 145
Message-ID: <46cea3cf$0$13888$afc38c87@news.optusnet.com.au>
NNTP-Posting-Host: 198.142.66.12
X-Trace: 1187947473 13888 198.142.66.12

Xref: g2news2.google.com rec.radio.amateur.homebrew:849

It is great to know that I am not the last dinosaur left on the planet.

Although my call goes back to the 1950's when I was very active with all home brew equipment, there has been a period of inactivity with family and other hobby interests (such as aviation) and I have kept amateur radio as my real retirement activity.
With commercially manufactured equipment now mandated here for foundation licence applicants my greatest fear is that we will lose our greatest priviledge of being able to design and build our own transmitting equipment.
My first SSB transmitter was, of course, all valve. It started at 483Khz with a phasing system followed by two half lattice crystal filter sections. Output started as a 6146 and then grew to 4x811A's in parallel. One of the real problems was getting the VFO really stable and the best I came up with used the worm drive capacitor out of one of those TU6 tuning boxes with the tuned circuits connected remotely via coax lines to the oscillator stage which was on the main chassis.
All a long time ago but I still believe that such experiments were a good way to learn and am also of the opinion that the newcomers who simply purchase a commercial rig are missing out on a lot of the basic fun that we had when a piece of junk disposals equipment could be transformed into something useful.

Good luck to you Art, hope you continue to enjoy the hobby

George
"Straydog" <asd@panix.com> wrote in message
news:Pine.NEB.4.64.0708232024500.9052@panix2.panix.com...

>
> FYI, FWIW...
>
> As I recently became retired my interests have evolved towards building homebrew tube gear. Reasons: i) simplicity in circuitry, ii) comparatively large tubes & sockets make soldering easier, iii) accidental slip of the test prod might not kill a tube but might a transistor, iv) yeah, I like to see those filaments glow, too, v) can still get those tubes but some transistors you can't find anywhere, v) throw-away technology (boards) is bad ecology...give me discrete devices any day, and vi) with high power heat sinks, silicon compound for conduction of heat (if it gets on your fingers, its hard to get it off) is needed and that damned metal can getdamned hot.
>
> I've been building a tube SSB transmitter for about 1-2 years now (parts of it can be seen at http://www.panix.com/~asd) and ends up with a pair of 813s in grounded-grid, driven by a single 811a in G-G, lots of home brew antenna tuners, and Icom 707 for the moment SSB transciever.
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> how to push the buttons (once, press twice, press and hold?, press and
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> going is also a problem], and all of that stuff is also 30+ years old).
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> lattice filter, and try to build a stable VFO.
>
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> Member, QCWA
> ~99.9% of my time with soldering iron & screwdriver, 0.1% of my time in
> ragchewing.
>
>




From -6178987024304275715
X-Google-Thread: fc2a5,60f2b7d9efeb2481
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 24 Aug 2007 04:53:12 -0500
Date: Fri, 24 Aug 2007 10:53:39 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
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User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My vacuum tube homebrew transmitter
References: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com>
In-Reply-To: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
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Lines: 13
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NNTP-Posting-Host: 85.210.43.112
X-Trace: sv3-qRWWfj4KRu+qYEd0pOU5jcXnQwo1VEr/
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M35ZLWvC6CqYXtnQJ6Nl+szgmw==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:850

> What happened to old-fashioned skill? 50 years ago guys worked the world with a
crystal
> and a single 6L6 and straight key. Now, they are all couch potatoes in front of
a
> black box that looks like its from outer space. ;-)
==============================
50 years ago the bands were sooooo quiet (relatively speaking) that you
didn't need today's sophistication
Although even today ,by using QRP equipment ....and Morse
telegraphy.........simple gear can still give a lot of enjoyment,  but
in 20 - 30 years time ,how many hams will then still be using Morse code?
But as far as 'local ragchew' is concerned , I agree with you ,simple
homebrew gear will still do the trick .

Frank  GM0CSZ / KN6WH         north of Scotland


From -8973607374958064218
X-Google-Thread: fc2a5,60f2b7d9efeb2481
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 24 Aug 2007 05:17:21 -0500
Date: Fri, 24 Aug 2007 11:17:48 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
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Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My vacuum tube homebrew transmitter
References: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com>
<46cea3cf$0$13888$afc38c87@news.optusnet.com.au>
In-Reply-To: <46cea3cf$0$13888$afc38c87@news.optusnet.com.au>
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Content-Transfer-Encoding: 7bit
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X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:851

> With commercially manufactured equipment now mandated here for foundation
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> tuned circuits connected remotely via coax lines to the oscillator stage
> which was on the main chassis.
> All a long time ago but I still believe that such experiments were a good
> way to learn and am also of the opinion that the newcomers who simply
> purchase a commercial rig are missing out on a lot of the basic fun that we
> had when a piece of junk disposals equipment could be transformed into
> something useful.

===
Firstly , Foundation Licensees in the UK are permitted to use
self-constructed transmitting equipment from an 'approved kit' ,
whatever that 'approved' means.

The younger generation(s) are no longer interested in our hobby for all
the well known reasons, Internet- Mobile Phones - Sat TV - iPod etc.
Their first priority is 'socialising'   and a 'nerd' sitting in a shack
soldering and using test equipment is NOT socialising.
Moreover ,homebrew equipment is NOT necessarily cheaper than
off-the-shelf stuff (with the exception of very basic equipment and
peripherals).

Being involved in assisting people to get a Ham licence , most if not
all recruits are retired or are about to retire.

We now live in 2007 and beyond ....that's the reality .

However ,being an old fogy myself .....I still do enjoy home-brewing.

Frank   GM0CSZ / KN6WH   north of Scotland

```
From -1326179367223718701
X-Google-Thread: fc2a5,60f2b7d9efeb2481
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r23g2000prd.googlegroups.com!not-for-
mail
From:  Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My vacuum tube homebrew transmitter
Date: Fri, 24 Aug 2007 10:14:39 -0700
Organization: http://groups.google.com
Lines: 12
Message-ID: <1187975679.459400.139470@r23g2000prd.googlegroups.com>
References: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com>
   <67qdnbRAWP81rFPbnZ2dnUVZ_hqdnZ2d@bright.net>
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Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1187975680 24865 127.0.0.1 (24 Aug 2007 17:14:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 24 Aug 2007 17:14:40 +0000 (UTC)
In-Reply-To: <67qdnbRAWP81rFPbnZ2dnUVZ_hqdnZ2d@bright.net>
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1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: r23g2000prd.googlegroups.com; posting-host=170.121.15.35;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:852
```

On Aug 23, 9:17 pm, Scott <acepi...@bloomer.net> wrote:

> Might not kill a tube, but it could kill a builder! Be careful!!

Oh, come on. How could anyone have not touched a low-kilovolt B+ and call himself a ham?

We've all touched a kilovolt or two, probably as young kids, and we're all perfectly normal!

Tim.

```
From -6848785371463573738
```

X-Google-Thread: fc2a5,a04d585a393bb43a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
exabot.com!freenix!sn-xt-sjc-05!sn-xt-sjc-09!sn-post-sjc-02!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: "Larry Gagnon" <lggagnon@fakeuniserve.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 1500w Mobile
Date: Fri, 24 Aug 2007 13:02:38 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <op.txkxyon8aiss39@localhost>
Content-Type: text/plain; format=flowed; delsp=yes; charset=iso-8859-1
MIME-Version: 1.0
References: <1187616592.438900.108130@w3g2000hsg.googlegroups.com>
Content-Transfer-Encoding: 7bit
User-Agent: Opera Mail/9.20 (Linux)
X-Complaints-To: abuse@supernews.com
Lines: 4
Xref: g2news2.google.com rec.radio.amateur.homebrew:853

Personally I doubt very much your Engine Management Control Unit will
stand up to the stray RF. ;-)

Larry VE7EA

From -8136734127482052003
X-Google-Thread: fc2a5,60f2b7d9efeb2481
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 24 Aug 2007 17:29:21 -0500
Date: Fri, 24 Aug 2007 22:29:20 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My vacuum tube homebrew transmitter
References: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com>
<67qdnbRAWP81rFPbnZ2dnUVZ_hqdnZ2d@bright.net>
<1187975679.459400.139470@r23g2000prd.googlegroups.com>
In-Reply-To: <1187975679.459400.139470@r23g2000prd.googlegroups.com>
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Content-Transfer-Encoding: 7bit
Message-ID: <O8adncMxI-xfxlLbnZ2dnUVZ_tmhnZ2d@bright.net>
Lines: 33
X-Usenet-Provider: http://www.giganews.com

NNTP-Posting-Host: 64.33.199.218
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yj2URyEh208sbVlmlLtgJw4T8GOSVHWol7qH9uvUusbcrHgorDzQkMTaYIUlos5lkUegqqB+B5oK!
pk3FUCFnig==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:854

Well, all humor aside, I stand by my original answer to BE CAREFUL.
True, a KV might not kill you, but if you start out being careless, when
you progress up to tubes like a 4-1000A, the B+ will most certainly kill
you. The pile of ashes on the floor will be proof enough ;)

Again, humor aside, I pride myself on NOT having hit a KV...that takes
more skill than hitting it ;)

Scott
N0EDV

Tim Shoppa wrote:

> On Aug 23, 9:17 pm, Scott <acepi...@bloomer.net> wrote:
>
>>Might not kill a tube, but it could kill a builder! Be careful!!
>
>
> Oh, come on. How could anyone have not touched a low-kilovolt B+ and
> call himself a ham?
>
> We've all touched a kilovolt or two, probably as young kids, and we're
> all perfectly normal!
>
> Tim.
>
>

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

From 4276727398862006123
X-Google-Thread: fc2a5,60f2b7d9efeb2481
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!

```
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-out.readnews.com!
transit4.readnews.com!panix!panix1.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My vacuum tube homebrew transmitter
Date: Fri, 24 Aug 2007 23:42:24 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 59
Message-ID: <Pine.NEB.4.64.0708242325260.19407@panix1.panix.com>
References: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com>
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NNTP-Posting-Host: panix1.panix.com
Mime-Version: 1.0
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X-Trace: reader1.panix.com 1188013347 15658 166.84.1.1 (25 Aug 2007 03:42:27 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 25 Aug 2007 03:42:27 +0000 (UTC)
In-Reply-To: <67qdnbRAWP81rFPbnZ2dnUVZ_hqdnZ2d@bright.net>
X-Original-Bytes: 3630
Xref: g2news2.google.com rec.radio.amateur.homebrew:855
```

See quoted material at end.

When I was a kid, I and the guys I hung out with were always playing with high voltage. We all built Tesla coils (12-15" sparks), played with Model T Ford spark coils (2" sparks), neon sign transformers that weighed 50 pounds and put out 15,000 volts at 30 to 50 milliamps, and Frankenstein-type "jacobs ladders." We made sparks. We made arcs. We made noise. We made smoke. We blew fuses. One more thing we all made was an old fashioned "repulsion coil" (coat hangers, wire, copper or alluminum ring that would jump up a foot when you threw the switch). We all made crystal sets, too. Made one transistor radios, too. Built Knight kits and heathkits.

Yes, you do NOT want to be a _klutz_ and goof off like we did. Yes, you do not want to play "electric chair" with yourself, and yes, its a very good idea when working with lethal voltage to keep one hand in your pocket when anything is "live". Repeat: if you are a klutz, or accident-prone, then do not mess around with this stuff.

Beyond that, yes, I got a few shocks. I even felt current from a 12 volt car battery (moist hands, large metal electrods, and use one hand on each, squeeze tight, I felt a mini-tingle). Got a nast RF burn by accidentally touching the plate cap of a 6146 with 50 watts of 10 meters carrier. It hurts and burnt flesh (part of my thumb) stinks like hell. I got a few more shocks, all minor, and whenever I'm around serious voltage and power, I definitely look twice at everything.

Most scandalous shock: Outside the house. Rainstorm coming and lightning and thunder comes 10 seconds later, means its all about two miles away, and I'm playing with the feedline on a 75 meter dipole with my hands, and then the next flash of light from the lightning and--dang it--I felt that "needle" in my hand from a pulse of electricity. Hmmmm...better get inside the house. So, next time you are listening on HF and when the lightning and thunder are close, and your S-meter needle is bouncing all the way to the top, you can be thiking about 100-200 volt pulses, eh? Anyway, just think about Ben Franklin who was flying his kites in the rain (in my case, I was dry and the rain wasn't falling yet where I was).

W4PON
===== no change to below, included for reference and context =====

On Fri, 24 Aug 2007, Scott wrote:

> Might not kill a tube, but it could kill a builder! Be careful!!
>
> Scott
> N0EDV
>
> Straydog wrote:
>>
>> FYI, FWIW...
>>
>> As I recently became retired my interests have evolved towards building
>> homebrew tube gear. Reasons:
>
>
> iii) accidental slip of the
>> test prod might not kill a tube but might a transistor,

From 9043351656231902834
X-Google-Thread: fc2a5,60f2b7d9efeb2481
X-Google-Attributes: gidfc2a5,public,usenet
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198.186.194.251.MISMATCH!news-out.readnews.com!transit4.readnews.com!panix!
panix1.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My vacuum tube homebrew transmitter
Date: Fri, 24 Aug 2007 23:51:36 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 180
Message-ID: <Pine.NEB.4.64.0708242342410.19407@panix1.panix.com>
References: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com>
 <46cea3cf$0$13888$afc38c87@news.optusnet.com.au>
NNTP-Posting-Host: panix1.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader1.panix.com 1188013898 21583 166.84.1.1 (25 Aug 2007 03:51:38 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 25 Aug 2007 03:51:38 +0000 (UTC)
In-Reply-To: <46cea3cf$0$13888$afc38c87@news.optusnet.com.au>

Xref: g2news2.google.com rec.radio.amateur.homebrew:856

On Fri, 24 Aug 2007, George McLeod wrote:

> It is great to know that I am not the last dinosaur left on the planet.

Jeeze, what is it, you and me against the world? ;-)

> Although my call goes back to the 1950's when I was very active with all
> home brew equipment, there has been a period of inactivity with family and
> other hobby interests (such as aviation) and I have kept amateur radio as my
> real retirement activity.

Yeah, I go to the local QCWA monthly lunches and what does everyone talk about? Not ham radio (but everyone has a ricebox), but their medical problems. Lots of them.

> With commercially manufactured equipment now mandated here for foundation
> licence applicants my greatest fear is that we will lose our greatest
> priviledge of being able to design and build our own transmitting equipment.

That is really sad. So, along with Microsoft as ultimate software robber-barron, we all become slaves to "commercial" interests.

> My first SSB transmitter was, of course, all valve. It started at 483Khz
> with a phasing system followed by two half lattice crystal filter sections.
> Output started as a 6146 and then grew to 4x811A's in parallel. One of the
> real problems was getting the VFO really stable and the best I came up with
> used the worm drive capacitor out of one of those TU6 tuning boxes with the
> tuned circuits connected remotely via coax lines to the oscillator stage
> which was on the main chassis.

Soon I will approach this problem. I may end up with a bank of crystals with a small variable capacitor to "warp" the crystal frequency. Free running oscillators are very hard to stabilize. The other option is to just leave them turned on, 24/7, so they are always warmed up.

> All a long time ago but I still believe that such experiments were a good
> way to learn and am also of the opinion that the newcomers who simply
> purchase a commercial rig are missing out on a lot of the basic fun that we
> had when a piece of junk disposals equipment could be transformed into
> something useful.

I agree 100%. I grew up in the 1950s and we had Popular Science, Popular Mechanics, and Mechanics Illustrated magazines. All kinds of do-it-yourself projects, diagrams, how-tos, everything. I loved it.

Today, its all "appliance operator" stuff in a throw away economy. It makes no sense to me.

> Good luck to you Art, hope you continue to enjoy the hobby

Thanks for all the good words.

One more thing: "Long live dinosaurs!"

W4PON
===== no change to below, included for reference and context =====
> George
> "Straydog" <asd@panix.com> wrote in message
> news:Pine.NEB.4.64.0708232024500.9052@panix2.panix.com...
>>
>> FYI, FWIW...
>>
>> As I recently became retired my interests have evolved towards building
>> homebrew tube gear. Reasons: i) simplicity in circuitry, ii) comparatively
>> large tubes & sockets make soldering easier, iii) accidental slip of the
>> test prod might not kill a tube but might a transistor, iv) yeah, I like
> to
>> see those filaments glow, too, v) can still get those tubes but some
>> transistors you can't find anywhere, v) throw-away technology (boards) is
>> bad ecology...give me discrete devices any day, and vi) with high power
> heat
>> sinks, silicon compound for conduction of heat (if it gets on your
>> fingers, its hard to get it off) is needed and that damned metal can
>> getdamned hot.
>>
>> I've been building a tube SSB transmitter for about 1-2 years now (parts
> of
>> it can be seen at http://www.panix.com/~asd) and ends up with a pair of
> 813s
>> in grounded-grid, driven by a single 811a in G-G, lots of home brew
> antenna
>> tuners, and Icom 707 for the moment SSB transciever.
>>
>> The homebrew SSB exciter lineup is not yet pictured, but at its current
>> stage of construction is almost ready to go on the air. Generate DSB at 2
>> mHz with 6AL5 balanced modulator, upconvert by mixing with 7 mHz to 9 mHz
>> (6BE6), use McCoy 9 mHz crystal filter (somebody gave it to me 25 years
>> ago) to shave off the desired sideband, mix (6SA7) with 5 mHz local
>> oscilator (by doubled 2.5 mHz from old war surplus Collins 70H3 VFO [from
>> Fair Radio Sales when they had them, they ran out years ago]) to get 4 mHz
>> (75 meters, my favorite ragchew band) which the scope shows to be about
> 5-10
>> mv, and goes into two 6C4s (triodes, grounded cathode) and then into
>> a 6AG7 & 6146. I am at the point where I need to make a RF transformer
>> to take the output of the 6146 to drive two more 6146s in parallel to get
>> the ten watts I need to drive the G-G 811a. Yes, if I could optimize
>> everything better, I could use less tubes. But, I preferred to make
>> modules (lots of stages are built inside of old computer power supply
>> cabinets (they are about 6x6x4 or so, and nice to work with, cheap at
>> hamfests at $1 each or so). All the gear is full of those old D'arsonval
>> "Frankenstein"-type (real) meters (not this LED crap), so I can keep
>> monitoring practically all the voltages on anything. Its not very pretty

> to
>> look at, but its a whole lot easier to work on than any of that new gear
> out
>> that surely has thousands of transistors and hundreds of chips (?).
>>
>> I chose the 813s and 811 and GG amps because both the 813 and 811 don't
>> really need cooling fans (I hate blower/fan noises) and grounded-grid amps
>> are notoriously stable (no neutralization headaches), and they are pretty
>> cheap. I have several 813s, some made in China; one of the Chinese 813s
> had
>> a filament that opened up on me all by itself after very little use (don't
>> know if that is THEIR quality control or just a statistical fluke, but I
>> thought I'd pass that along to y'all). I also manage filament warmup and
>> cooldown on the 813s with a variac (up and down over abut 5-10 seconds),
> but
>> not on the 811 amp. Been using the 813s + 811 for over a year (using the
>> Icom 707 as driver) and just love how nice and quiet it is without
>> fans/blower noise.
>>
>> Almost all of my old rigs are also pictured on that URL, and a couple of
>> pictures of my "secret lab" out in the garage (heated with a space heater
> in
>> the winter, cooled with a small airconditioner in the summer).
>>
>> I started as a novice in 1959. Had a Knight kit T-50 and Knight R-100
>> receiver, later got a DX-40. Mostly liked to ragchew with locals on ten
>> meters AM at the time. Lots of find memories. Lots of SWLing.
>>
>> I'd like to hear from other homebrewers, HFers, ragchewers and learn if
> ther
>> are any 75 meter nets for homebrewers/tubers/etc. I look at all this new
>> gear coming out (for thousands of dollars) with hundreds of buttons,
> knobs,
>> and "thangs" on them, and big thick manuals you have to read to figure out
>> how to push the buttons (once, press twice, press and hold?, press and
> hold
>> one, then turn on the power switch? Etc? Secret "reboot" buttons hidden
>> somewhere. Built in DRM, DCMA, spyware? Too?). What happened to
>> old-fashioned skill? 50 years ago guys worked the world with a crystal and
> a
>> single 6L6 and straight key. Now, they are all couch potatoes in front of
> a
>> black box that looks like its from outer space. ;-)
>>
>> I figure I'm within a week or two of getting the homebrew SSB exciter
>> actually on the air. I've been testing the outputs of various stages
> either
>> using the Icom 707 as general coverage receiver, one or two oscilloscopes
> to
>> check generated signals, etc. Still have a lot of tweaking to do. Its been
> a
>> ton of work, debugging and rebuilding when something doesn't work, but its
>> also been an incomparable sense of accomplishment, too, when I get a stage

>> to work and make progress (four steps forward, three steps backwards). Its
>> also nice to have some test equipment (generators, meters, a good
>> oscilloscope [had a Tektronix 922 that gave up and I tossed, then a
> heathkit
>> which had a dead vertical amp that I fixed, and a BK-1420? very nice but
> now
>> the horizontal sweep died but vertical amp still good, so I can probe at
>> least for RF which gives me a vertical line [keeping the test equipment
>> going is also a problem], and all of that stuff is also 30+ years old).
>>
>> After that, I plan to build a tube receiver and maybe even build a crystal
>> lattice filter, and try to build a stable VFO.
>>
>> Art, W4PON
>> Member, QCWA
>> ~99.9% of my time with soldering iron & screwdriver, 0.1% of my time in
>> ragchewing.
>>
>>
>
>
>
>

From -3830975501678110210
X-Google-Thread: fc2a5,60f2b7d9efeb2481
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix1.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My vacuum tube homebrew transmitter
Date: Fri, 24 Aug 2007 23:57:06 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 38
Message-ID: <Pine.NEB.4.64.0708242351570.19407@panix1.panix.com>
References: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com>
 <msSdnfmuTbkVN1PbnZ2dnUVZ8qydnZ2d@pipex.net>
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Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader1.panix.com 1188014226 22675 166.84.1.1 (25 Aug 2007 03:57:06 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 25 Aug 2007 03:57:06 +0000 (UTC)
In-Reply-To: <msSdnfmuTbkVN1PbnZ2dnUVZ8qydnZ2d@pipex.net>
Xref: g2news2.google.com rec.radio.amateur.homebrew:857

On Fri, 24 Aug 2007, Highland Ham wrote:

```
>> What happened to old-fashioned skill? 50 years ago guys worked the world
>> with a crystal and a single 6L6 and straight key. Now, they are all couch
>> potatoes in front of a
>> black box that looks like its from outer space. ;-)
> ==============================
> 50 years ago the bands were sooooo quiet (relatively speaking) that you
> didn't need today's sophistication

I am retired out in the country (nearest town is 7 miles away, nearest
traffic light is 2.2 miles away). here, now, in the summertime, my
background static noise on 75 meters, believe it or not, is usually about
S 1 to S3. Only when we have thunderstorms does it get up to S 9 or more.
Yes. Believe it or not.  A guy I ragchew with on 75 meters lives in the
city. His noise is never less than S8 and quite often 20-40 db over S 9,
and he can't find the source.

> Although even today ,by using QRP equipment ....and Morse
> telegraphy.........simple gear can still give a lot of enjoyment,  but
> in 20 - 30 years time ,how many hams will then still be using Morse code?

It will be like slide rules and logarithms: forgotten. If teh kids can't
find the answers on the internet, then the project just will not be done.
And, they are still trying to figure out how the Egyptians built the
pyramids.

> But as far as 'local ragchew' is concerned , I agree with you ,simple
> homebrew gear will still do the trick .

Yep.

> Frank  GM0CSZ / KN6WH         north of Scotland

Good luck with Gordon Brown!!!



From -3971002343292469443
X-Google-Thread: fc2a5,60f2b7d9efeb2481
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!out04a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!news-
in-02.newsfeed.easynews.com!easynews.com!easynews!news-out.readnews.com!
transit4.readnews.com!panix!panix1.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My vacuum tube homebrew transmitter
Date: Sat, 25 Aug 2007 00:00:32 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 53
Message-ID: <Pine.NEB.4.64.0708242357360.19407@panix1.panix.com>
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Xref: g2news2.google.com rec.radio.amateur.homebrew:858

On Fri, 24 Aug 2007, Highland Ham wrote:

>> With commercially manufactured equipment now mandated here for foundation
>> licence applicants my greatest fear is that we will lose our greatest
>> priviledge of being able to design and build our own transmitting
>> equipment.
>> My first SSB transmitter was, of course, all valve. It started at 483Khz
>> with a phasing system followed by two half lattice crystal filter sections.
>> Output started as a 6146 and then grew to 4x811A's in parallel. One of the
>> real problems was getting the VFO really stable and the best I came up with
>> used the worm drive capacitor out of one of those TU6 tuning boxes with the
>> tuned circuits connected remotely via coax lines to the oscillator stage
>> which was on the main chassis.
>> All a long time ago but I still believe that such experiments were a good
>> way to learn and am also of the opinion that the newcomers who simply
>> purchase a commercial rig are missing out on a lot of the basic fun that we
>> had when a piece of junk disposals equipment could be transformed into
>> something useful.
> ==
> Firstly , Foundation Licensees in the UK are permitted to use
> self-constructed transmitting equipment from an 'approved kit' , whatever
> that 'approved' means.
>
> The younger generation(s) are no longer interested in our hobby for all the
> well known reasons, Internet- Mobile Phones - Sat TV - iPod etc.
> Their first priority is 'socialising'   and a 'nerd' sitting in a shack
> soldering and using test equipment is NOT socialising.

Right. Today's business model is profits. You don't need brains,
knowleddge, or skill to _buy_ an already assembled gadget. Just money (or
debt).

> Moreover ,homebrew equipment is NOT necessarily cheaper than off-the-shelf
> stuff (with the exception of very basic equipment and peripherals).

Best to look at hamfests (don't know if you have these over where you
are), used equipment, and war surplus (we have a few left here in US).

> Being involved in assisting people to get a Ham licence , most if not all
> recruits are retired or are about to retire.
> We now live in 2007 and beyond ....that's the reality .

Frightening, isn't it?

> However ,being an old fogy myself .....I still do enjoy home-brewing.

So do I.

>
> Frank   GM0CSZ / KN6WH   north of Scotland
>

From -5553051615600923606
X-Google-Thread: fc2a5,60f2b7d9efeb2481
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix1.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My vacuum tube homebrew transmitter
Date: Sat, 25 Aug 2007 00:01:44 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 21
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References: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com>
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<1187975679.459400.139470@r23g2000prd.googlegroups.com>
NNTP-Posting-Host: panix1.panix.com
Mime-Version: 1.0
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NNTP-Posting-Date: Sat, 25 Aug 2007 04:01:46 +0000 (UTC)
In-Reply-To: <1187975679.459400.139470@r23g2000prd.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:859

On Fri, 24 Aug 2007, Tim Shoppa wrote:

> On Aug 23, 9:17 pm, Scott <acepi...@bloomer.net> wrote:
>> Might not kill a tube, but it could kill a builder! Be careful!!
>
> Oh, come on. How could anyone have not touched a low-kilovolt B+ and
> call himself a ham?

Right on!!

> We've all touched a kilovolt or two, probably as young kids, and we're
> all perfectly normal!

Just don't let the current path include your heart/chest.

> Tim.
>
>
>

```
From 8558311230685841217
X-Google-Thread: fc2a5,60f2b7d9efeb2481
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!panix!
panix1.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My vacuum tube homebrew transmitter
Date: Sat, 25 Aug 2007 00:09:47 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 58
Message-ID: <Pine.NEB.4.64.0708250002230.19407@panix1.panix.com>
References: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com>
 <67qdnbRAWP81rFPbnZ2dnUVZ_hqdnZ2d@bright.net>
<1187975679.459400.139470@r23g2000prd.googlegroups.com>
 <O8adncMxI-xfxlLbnZ2dnUVZ_tmhnZ2d@bright.net>
NNTP-Posting-Host: panix1.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader1.panix.com 1188014988 27994 166.84.1.1 (25 Aug 2007 04:09:48 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 25 Aug 2007 04:09:48 +0000 (UTC)
In-Reply-To: <O8adncMxI-xfxlLbnZ2dnUVZ_tmhnZ2d@bright.net>
Xref: g2news2.google.com rec.radio.amateur.homebrew:860
```

On Fri, 24 Aug 2007, Scott wrote:

> Well, all humor aside, I stand by my original answer to BE CAREFUL. True, a
> KV might not kill you, but if you start out being careless, when you progress
> up to tubes like a 4-1000A, the B+ will most certainly kill you. The pile of
> ashes on the floor will be proof enough ;)
>
> Again, humor aside, I pride myself on NOT having hit a KV...that takes more
> skill than hitting it ;)

Knights of Olde Times had scars to prove their courage, bravery, and
skills and slain dragons. ;-)   (or foolheartiness?)

Then thee can speak of "experience." ;-)

And, once burned, you learn and remember better, too!!! :-)

Memory is wonderful: You recognize when you made that same mistake before!

;-)

And, of course, you get bragging rights if you can talk about a smoke test
where you really did get the smoke (yeah, I had one and that burnt rubber
stank, too).

73

Art, W4PON

===== no change to below, included for reference and context =====
> Scott
> N0EDV
>
> Tim Shoppa wrote:
>
>> On Aug 23, 9:17 pm, Scott <acepi...@bloomer.net> wrote:
>>
>>> Might not kill a tube, but it could kill a builder! Be careful!!
>>
>>
>> Oh, come on. How could anyone have not touched a low-kilovolt B+ and
>> call himself a ham?
>>
>> We've all touched a kilovolt or two, probably as young kids, and we're
>> all perfectly normal!
>>
>> Tim.
>>
>>
>
> --
> Scott
> http://corbenflyer.tripod.com/
> Gotta Fly or Gonna Die
> Building RV-4 (Super Slow Build Version)
>

From 9110214058575257795
X-Google-Thread: fc2a5,60f2b7d9efeb2481
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news-out.octanews.net!indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: My vacuum tube homebrew transmitter
Date: Fri, 24 Aug 2007 22:37:15 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.08.25.05.37.15.156759@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com>

```
<46cea3cf$0$13888$afc38c87@news.optusnet.com.au>
<Pine.NEB.4.64.0708242342410.19407@panix1.panix.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 18
Organization: Octanews
NNTP-Posting-Date: 25 Aug 2007 00:37:19 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:861

On Fri, 24 Aug 2007 23:51:36 -0400, Straydog wrote:

>
>
> On Fri, 24 Aug 2007, George McLeod wrote:
>
>> It is great to know that I am not the last dinosaur left on the planet.
>
> Jeeze, what is it, you and me against the world?  ;-)

Oh, there's more of us :-)

At 39, I'm a dinosaur at heart with barely a transistor in stock. A couple
thousand tubes though!

Cheers,
--
Gregg


From 3462023825478967095
X-Google-Thread: f573f,e3014e4374b06588,start
X-Google-Thread: 10b346,e3014e4374b06588,start
X-Google-Thread: 105ae5,e3014e4374b06588,start
X-Google-Thread: f5125,e3014e4374b06588,start
X-Google-Thread: fc2a5,e3014e4374b06588,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!wns14feed!
worldnet.att.net!63.218.45.10!nx01.iad01.newshosting.com!newshosting.com!
post01.iad01!post02.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07072505524085@4ax.com>
Subject: MI5 Persecution: Chris Tarrant - 10/March/1999 (450)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 25 Aug 2007 05:52:34 GMT
Lines: 31
```

Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
Xref: g2news2.google.com alt.sex.masturbation:10109 alt.masturbation:342
hr.comp.amiga:335 tw.bbs.soc.media:266 rec.radio.amateur.homebrew:862

Chris Tarrant - 10/March/1999

Certainty level: 25%

This one might be aimed at me, or it might be tinged with a whiff of intent, although I only give one chance in four for Tarrant's thoughts being aimed at me when he said this. During his "Who wants to be a Millionaire" TV show in March 1999, he said;

if you're watching the show jumping up and down screaming at the telly, remember you could be here. You can either seek professional help or call us...

The background is as follows. In early March I'd sent a quantity of emails to Capital FM, the London radio station where Mr Tarrant has his breakfast show. They were addressed to the email account which Mr Tarrant used to read emails posted on Capital's website. Capital objected to the quantity of emails - in fact, they contacted the Metropolitan Police's Computer Crime unit, who, in turn, "felt my collar" by giving me a verbal warning over the phone to cease this behaviour.

The emails contained the words which I had heard Mr Tarrant speak in early 1994, namely;

"You know this bloke? He says we're trying to kill him.
We should be done for attempted manslaughter".

At the time of writing (May 1999), the Police have not told me what aspect of the emails was "illegal", nor despite my repeated urging have they questioned Mr Tarrant about his remarks from 1994.

Regarding the clip from Tarrant's show above. The Police spoke to me on the afternoon of Wednesday 10 March 1999. Tarrant's live show went out that same evening. The Police have told me that after speaking to me they told Capital FM that they'd spoken to me regarding the emails. So Tarrant would have known by the time of the show who'd sent the emails and why.... and it's quite possible that his remarks about "seeking professional help" were aimed at me personally following my attempts to persuade him to own up to his 1994 remarks.

450

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

```
From -4217115001057658299
X-Google-Thread: f573f,30970670a424a0d6,start
X-Google-Thread: 10b346,30970670a424a0d6,start
X-Google-Thread: 105ae5,30970670a424a0d6,start
X-Google-Thread: f5125,30970670a424a0d6,start
X-Google-Thread: fc2a5,30970670a424a0d6,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!meganewsservers.com!
feeder2.on.meganewsservers.com!nx02.iad01.newshosting.com!newshosting.com!
post02.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07072506184184@4ax.com>
Subject: MI5 Persecution: Nicholas Witchell - 10/April/1999 (1673)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 25 Aug 2007 06:18:35 GMT
Lines: 15
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
Xref: g2news2.google.com alt.sex.masturbation:10110 alt.masturbation:343
hr.comp.amiga:336 tw.bbs.soc.media:267 rec.radio.amateur.homebrew:863
```

Nicholas Witchell - 10/April/1999

Certainty level: 100%

This clip is of Nicholas Witchell reading the BBC2 evening news at 7pm on Saturday 10 April 1999. You have to understand that the psychopaths of the Security Service consider their abuse of me to be "so funny"; and central to their persecution of me is their inducement of their "bought journalists" like the BBC's Nicholas Witchell to laugh at me on television.

So in this clip we see Witchell smirking and grinning while he reads the news. Only part of the news broadcast is shown in the clip; preceding it, Witchell's upper lip quivers in mirth for several minutes, until his entire mouth twists into the uncontrollable smile shown in this clip, through the excuse of a weak non-joke about sports fixtures.

1673

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

```
From 8707985492388841114
X-Google-Thread: f573f,9e54df66d52dadb7,start
X-Google-Thread: 10b346,9e54df66d52dadb7,start
X-Google-Thread: 105ae5,9e54df66d52dadb7,start
X-Google-Thread: f5125,9e54df66d52dadb7,start
X-Google-Thread: fc2a5,9e54df66d52dadb7,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
post02.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07072506463527@4ax.com>
Subject: MI5 Persecution: England expects every man to do his duty (2896)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 25 Aug 2007 06:46:29 GMT
Lines: 48
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 44
Xref: g2news2.google.com alt.sex.masturbation:10111 alt.masturbation:344
hr.comp.amiga:337 tw.bbs.soc.media:268 rec.radio.amateur.homebrew:864
```

"England expects every man to do his duty"

Certainty level: 90%

This video clip portrays a fairly-certain case of unpleasant MI5 harassment; because of context, surrounding events, not just this one happening. It's the first time an MI5 agent has been caught on video, and, presumably to their chagrin, their paid agent is either engaging in an onanistic practice, or, more probably, pretending to do so, in order to carry out an act of harassment.

The background is as follows. In late June 2000 I had posted the following message to Usenet, about MI5's making obscene noises at me on several recent occasions;

```
>From: bu765@torfree.net (Mike Corley)
>Subject: relax, don't do it (mi5 again)
>Date: 22 Jun 2000 00:00:00 GMT
>
>you will recall that a couple of weeks ago I was supposing what MI5 were
>doing with their 'single'handed' posting antics at 2am
>
```

>exciting stuff
>
>so about a week ago someone rings me up at home.... 'is that Emmanuel
>Goldstein?' then he phones back the following day and goes 'huaaaagh' on
>the phone before dropping the handset in excitement
>
>and a day or two later, just coming out of our house to put something in
>the rubbish bin, a pair of blokes over the other side of the road, again
>start making orgasmic noises
>
>I'm not paranoid enough to record minidisc when I pop out for a few
>seconds...... but perhaps I should be

The video clip, which was captured on 1/September/2000, is the culmination of that thread of harassment. You have to understand that MI5's abuse is in threads; they choose a topic, and then continue with it for months and years. Sometimes they drop a topic, usually to be replaced by a worse one, and you never hear of it again.

If the person in the video clip were not an MI5 agent, then he would deserve privacy, despite carrying out a real or feigned act in a public place. But I am almost 100% sure, because of context, that this man was one of their operatives, which removes any consideration of privacy from his act. He is facing away and cannot be clearly identified from this clip. I've never seen this man before or since, but that is true of most other such incidents.

2896

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
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From -9129111816734110156
X-Google-Thread: f573f,a6b8e5b329b236ce,start
X-Google-Thread: 10b346,a6b8e5b329b236ce,start
X-Google-Thread: 105ae5,a6b8e5b329b236ce,start
X-Google-Thread: f5125,a6b8e5b329b236ce,start
X-Google-Thread: fc2a5,a6b8e5b329b236ce,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07072507181728@4ax.com>
Subject: MI5 Persecution: C4 SnowMail - January/2001 (4119)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama

teur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 25 Aug 2007 07:18:10 GMT
Lines: 160
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 156
Xref: g2news2.google.com alt.sex.masturbation:10112 alt.masturbation:345
hr.comp.amiga:338 tw.bbs.soc.media:269 rec.radio.amateur.homebrew:865

C4 SnowMail - January/2001

Certainty level: 50%

In January 2001 I signed up for Channel 4 TV News's email service SnowMail, under an anonymous email address.
Quite soon Jon Snow and others started getting at me in the SnowMail bulletins, so I promptly unsubscribed.
Here are three distributed messages which may be intended to be against me; I have given these items a joint
probability of 50% only, since it is quite difficult to be sure these are against me, although I think they
may well be.

First item is from 5 January 2001. "Back passage contacts" might genuinely be about Labour were communicating
in a shielded way with ITN; but it may be about Snow's covert communications with me on his programme and in
this bulletin; and it's a slightly strange thing for him to say, it suggests the human body's back passage.
"I wish they'd come and talk on our website".... Snow knows I'm subscribed to his mailing list, and he may be
encouraging me to talk to him by email; again, if that comment were genuinely about Labour, then it would be
a strange thing to say, since the politicians talk to Snow by phone and on his programme, so they wouldn't talk
to him by email; my suspicion at the time is that he was trying to persuade me to talk to him by email,
so he could decently lie that my thoughts of reference were incorrect.

From: "Snow C4N, Jon"
Subject: Channel 4 News briefing
Date: Fri, 5 Jan 2001 17:15:06 -0000
MIME-Version: 1.0

January 5, 2000

Good afternoon dear viewer,

Well the 'snowmail' drew a little ire from Labour HQ yesterday. A sensitive call at 6.35pm from my friendly mentor there sought to correct the impression I gave in yesterday's missive that in some way Labour was bounced into naming these latest millionaire donors. Well I'm afraid they were...rest assured Paul Hamlyn would not have been named without the diligent sleuthing of my colleagues, and had HE not been named neither would these latest two.

The only serious inaccuracy I must plead to was the promise that we would put these matters to a 'senior Labour person'...alas none was forthcoming...I shall make no such rash promise again. My same mentor was on the phone again during last night's Channel 4 News urging us to 'get some reality into the programme'. I fear we may have touched a sensitive nerve...and the election campaign has not even started, or has it? I shall try to keep you posted with these 'back passage contacts' as the campaign unfolds..from all sides. I do wish they'd come and talk things over with all of us on the web site...here's an open invitation...

So to today:

Harold Shipman murdered as many as 250 people it now turns out. But he is never to be tried and relatives who seek closure to their uncertainties will never reap satisfaction..we have the DPP, the Chief Medical Officer and a solicitor for aggrieved and bereaved families on the programme..the world's second-worst mass murderer..can he be allowed to escape further action?

Sending private/sexy emails in company time gets workers the sack..Big Brother spies on office premises..is electronic life in the work place getting out of hand? We explore what we can...and if you are not sure what you can and can't send, our site spells out the legal dos and don'ts and gives you the chance to put your views to us.

The CIA publishes its risk assessment for the world in the coming years..beyond the CIA itself, what's the biggest threat to life and liberty? Find out on Channel 4 News..and a major encounter with a man expected to take a top job in the Bush administration...

And a sumptuous piece from Nicholas Glass in Valencia..a city transformed by a brilliant young architect for half the price of what the Dome cost us.

Lots moving, see you at 7.00,best as ever,

Jon Snow

The next contact was on 11 January, with the unsubtle words "the lunatics have taken over the newsroom" from Krishnan GM. The phrase needs no explanation as to why it might be a dig at me.

From: "Guru-Murthy C4N, Krishnan"
Subject: Channel 4 News briefing
Date: Thu, 11 Jan 2001 16:56:25 -0000
MIME-Version: 1.0

January 11, 2001

Good Afternoon. Jon's away so the lunatics have taken over the newsroom. I am joined by Samira for tonight's show.

The Depleted Uranium confusion deepens. What did Ministers and senior officers know about the risks to soldiers? What did they tell others? And why the lack of candour over the recent documents that have surfaced? Having dismissed the army report leaked yesterday warning of the dangers of exposure to DU as written by a trainee and littered with mistakes, the Ministry of Defence now accepts it was written by an experienced officer. But they won't say who. More awkwardly it emerges that senior officers decided a month after it was written that the report should be circulated to all personnel likely to come into contact with DU. But was it? Nobody seems to know. Our Science Correspondent Andrew Veitch has also visited the lab in Oxford that could begin testing veterans for Depleted Uranium within six months, but they have had no contact from the government as yet. From the Tories, Mr Duncan Smith is likely to join us. And we have Defence Secretary Hoon coming into the studio to answer the obvious (and not so obvious) questions.

No interest rate cut today from the Bank of England, but could it be next month? As real fears are raised about the likelihood of recession in the US how could it affect us over here? There's been a recent consensus that Britain could weather the storm instead of falling into the usual pattern of shadowing American trends. But how realistic is that? And what about all that inward investment we rely on from the States? Liam Halligan has been looking at just what impact economic downturn across the water would have on us.

The former Bosnian Serb President Biljana Plavsic pleaded not guilty to charges of warcrimes including genocide today. She was number two to Karazdic and a reputed hardliner during the "ethnic cleansing" of Bosnia. But has a deal been done on her sentence if found guilty? Just why did she get on a plane and give herself up to the Hague War Crimes Tribunal? Nobody seems to have any explanation. Her lawyers are asking for special accommodation and even the possibility of bail. Gaby Rado is there and joining us live is the first Prosecutor in the Hague Judge Goldstone to discuss whether plea bargains and deals are the only way to get the real villains.

Also the astonishing news that scientists in America have bred the first genetically engineered monkey. What will they be used for and what's the next step? Does anybody really believe they won't do it to humans before too long? Julian Rush will have details.

All that and loads more at seven. See you then, I hope. Krishnan.

The third and final item is from 24 January, shortly after which I unsubscribed from SnowMail. Again, it is difficult to be sure if this item refers to me; it may do, it may not do, 50% captures the possibility. Snow refers to "third leg of [Blair's] political footstool". In English culture "third leg" indicates one's male member; Snow's phrase may be a sexual reference, of which there were others around that time.

From: "Snow C4N, Jon"
Subject: Channel 4 News briefing
Date: Wed, 24 Jan 2001 16:37:36 -0000
MIME-Version: 1.0

January 24, 2001

Good evening dear Channel 4 News viewer,

There are times in this business when you suffer severe attacks of deja vu...haven't I already said "Mandelson Resigns!"...I'm afraid I have, and tonight I shall say it again. He's gone, the fat lady has not only sung but died completely and utterly on his career...that is the end of the former Northern Ireland Secretary's political career.

It's a body blow against Blair for whom Mandelson was a mentor, manipulator, calculator, friend, brother and the third leg of his political footstool.
It's a body blow for a Prime Minister who has had to have him resign not once but twice. It calls into question Tony Blair's judgement. Mandy, probably one of the most brilliant spirits in politics, flew too close to the sun...suffering finally at the hand of his own diabolical flaw.
Amazingly it's a flaw Blair understood more keenly than anyone...

And then there are the Hindujas who have compromised every political party with

ridiculous photographed party poses..who are they and how do they work?
Masses moving on all fronts on this story tonight. We have the resignation speech in full on our site www.channel4.com/news;
if you want to see how Mandelson bowed out.

There are other developments:

The cancer tragedy at Nottingham Queens medical centre..the wrong drug going into the spinal column of an eighteen-year-old
Leukemia victim who's now in intensive care, dangerously ill...it's happened before..why has it happened again?

And a moving interview with Sharon Sage who's mother Lorna Sage wrote a spell binding memoir highly rated in last night's
Whitbread Prize. An exceptional piece....

A highly political night....see you at seven on four...best, as ever, Jon

After this email I unsubscribed from SnowMail. I could not be sure that these items were or were not about me,
but it's an unpleasant feeling that Mr Snow might be getting at me in writing, as he certainly was when he watched
me while presenting the news; so I cut my losses, so to speak, and bailed out.

4119

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From 707952388563363666
X-Google-Thread: f573f,ef6fbcb85624e5bd,start
X-Google-Thread: 10b346,ef6fbcb85624e5bd,start
X-Google-Thread: 105ae5,ef6fbcb85624e5bd,start
X-Google-Thread: f5125,ef6fbcb85624e5bd,start
X-Google-Thread: fc2a5,ef6fbcb85624e5bd,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!post02.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07072507541952@4ax.com>
Subject: MI5 Persecution: BBC-TV See You, See Me - 7/Dec/2001 (5342)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew,uk.misc

From: MI5Victim@mi5.gov.uk
Date: 25 Aug 2007 07:54:13 GMT
Lines: 27
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 23
Xref: g2news2.google.com alt.sex.masturbation:10113 alt.masturbation:346
hr.comp.amiga:339 tw.bbs.soc.media:270 rec.radio.amateur.homebrew:866

BBC-TV "See You, See Me" - 7/Dec/2001

Certainty level: 80%

On Friday 7 December 2001, BBC Schools aired a TV programme from their "See You, See Me" series.
The series was based in Scotland, with Grant Stott and Wilma Kennedy trying to find some stolen jewels.
Its web home is www.bbc.co.uk/scotland/education/seeyouseeme/

The programme appeared to make some "subtext" references to my situation. Kennedy refers to "it's not fair",
which is a key phrase; its existence started with OCTS MD Hugh S.-W. who humorously referred to my treatment
with the same phrase.
The subtle statement is that it is fair, because we're doing it, and we're always right, even when we're wrong.

The phrase "useless idiot" from the police chief is a clear insult directed at me, and needs no explanation.

But it is the third item in this clip which is most telling. Stott says the words, "humiliating in front of
the whole public, it would crucify us" if the investigation were called off. That's the phrase that assures
this clip of an 80% probability rating. MI5 are trying to humiliate me "in front of the whole public",
and their strategy is a mixture of ambiguous covert, such as this very programme, and clear overt.

5342

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

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Subject: MI5 Persecution: Channel Four TV News - 10/April/2002 (6565)
Newsgroups:
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Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 25 Aug 2007 08:19:40 GMT
Lines: 41
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 37
Xref: g2news2.google.com alt.sex.masturbation:10117 alt.masturbation:347
hr.comp.amiga:340 tw.bbs.soc.media:271 rec.radio.amateur.homebrew:867
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Channel Four TV News - 10/April/2002

Certainty level: 80%

I was watching Jon Snow on Channel Four TV News on Wednesday 10 April, and he again reacted on seeing me watching his programme. At 7.25pm he was reading an item on atrocities during the Balkan war;

JS: "It was Europe's worst massacre since the Second World War, and Dutch army officers [cough] and the United Nations should share the blame. So says the first authoritative report into the murder of thousands of Muslim men in Srebrenice at the height of the Bosnian war in 1995. The 7,500 page document took Dutch Government researchers six years to prepare, and it condemns military and political leaders for sending peacekeepers on a mission impossible. Our Foreign Affairs correspondent Gaby Rado, who went to Srebrenice very soon after the massacre, is with us now. Gaby, how damning is this report?"

GR: "Well it is very severe. It accuses the Dutch Government of sending badly armed and badly briefed Dutch soldiers into a very dangerous space out of a sense of national arrogance basically. It accuses the United Nations basically of..."

There are two incidents in this one recording. The first (80% certainty) is when Jon Snow develops a frog in his throat in the first sentence, shortly after reading the text "Europe's worst massacre". There is both verbal expression and facial expression at that point; he is laughing at me, which is at odds with the serious material he is reading. His eyebrows twitch upwards, and he is smirking at the phrase "Europe's worst massacre", and its application to the Security Service's actions against me. Another aspect is that when Snow said "Europe's worst massacre", I facially reacted; in return, Snow would have seen my change of expression, and followed it with his own reaction. He almost says "United States" instead of "United Nations"; he isn't looking at his autocue, his mind is off what he is reading, instead he is looking at me in the little monitor where he sees me through the television.

The first incident I'm fairly sure about, but the second I only give a 20% certainty to; it's when Gaby Rado talks of a "sense of national arrogance", supposedly about the Dutch, but perhaps the English actions against me for over a decade. If Rado's statement were about me, then it would be condemnatory of MI5 as being "arrogant"; but I cannot be reasonably certain it's about me, or much less so that Snow's reaction in the first instance, anyway.

6565

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Message-Id: <m07072508501764@4ax.com>
Subject: MI5 Persecution: BBC1 TV News - 18/Dec/2002 (7788)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama

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teur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 25 Aug 2007 08:50:11 GMT
Lines: 27
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
Xref: g2news2.google.com alt.sex.masturbation:10118 alt.masturbation:348
hr.comp.amiga:341 tw.bbs.soc.media:272 rec.radio.amateur.homebrew:868
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BBC1 TV News - 18/Dec/2002

Certainty level: 30%

This item occurred on Wednesday 18/December/2002, on BBC1 TV News shortly after 6pm. It is one of the "coincidence"
category of happenings, where people by supposed coincidence repeat exactly the words I have said or thought very recently.
In this case, the BBC's New York correspondent Stephen Evans, live from NYC, says the words "airy fairy language",
during a piece on Britain's entry in the competition for a successor to the WTC after 9/11.

I had been thinking the words "airy fairy" a day or two previously and may have spoken them in my sleep. I did not speak them awake.
The TV practice in 1990-92 had been to repeat on TV/radio (or at work) words which I had either spoken while awake, or words I had
thought but not said consciously - since I know that I sometimes say things in my sleep, but cannot later recall saying them,
obviously since I was unconscious at the time. The TV news reader or reporter then finds a context in which to drop a particular phrase;
this practice has a famous exemplar in the "Phil the Greek" item relating to the Duke of Edinburgh - who had been called Phil the Greek
in Private Eye, then a TV reporter managed to structure his report to include the words "fill the Greek community with alarm".
It might appear funny, but when such "intentional coincidence" happens a lot, as in 1990-92, and when it supports other methods of obscenity,
then the amusement value wanes.

The choice of words appears to form a homosexual reference - the way it works is that the Security Service are blokes fantasising continually
about another bloke, so to avert the obvious observation of their being gay
see here for another instance of unwholesome MI5 fantasising in public),
they try to assign the attribute to the victim - they do this sort of thing all the time, with all sorts of attributes. However, in this
particular case I give it only a one in three probability, since this incident seems to have been a one-off at that particular time.

7788

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
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Subject: MI5 Persecution: Life is so hard (450)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 25 Aug 2007 09:53:49 GMT
Lines: 39
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 35
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hr.comp.amiga:342 tw.bbs.soc.media:273 rec.radio.amateur.homebrew:869
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Life is so hard

Certainty level: 100%

This relates to harassment at my workplace in Canada. Yes, "they" had their claws into my employers in North America, it doesn't just happen in England, it happens here as well.

During the second half of 1996, at work, I was sitting near a co-worker whom we shall call Mark (we can, because that's his name). This guy occasionally came out with words and phrases that made me think that "they" had got to him and were supplying him with information about my home life (not social life please note, because of course I don't actually have a social life here).

During November 1996 I tried to catch him in the act of saying something "meaningful", a difficult exercise because as soon as he saw a tape recorder, he shut up completely, except for times when he knew he would be out of range of the walkman. (Note that the quality of this recording is not very good; I was just using a four-year-old tape walkman with a cheap microphone, quite low-tech).

During the evening of 12 November 1996, at home in my apartment (flat to you UK-ers), I said "life is so hard, and then you die". A nihilistic, negative thing to say, but quite distinctive. The following day, 13 November, Mark said loudly, "life is so hard eh, and then you die" followed by loud laughter.

In my book the precise repetition of the words makes this incident a 100% certainty. You, the reader, may differ, but then living in a free country allows each of us to have our own opinions, doesn't it?

450

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Newsgroups:
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teur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 25 Aug 2007 10:26:09 GMT
Lines: 31
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
Xref: g2news2.google.com alt.sex.masturbation:10127 alt.masturbation:350
hr.comp.amiga:343 tw.bbs.soc.media:274 rec.radio.amateur.homebrew:870
```

GLR-David Hepworth (21/Feb/1997)

Certainty level: 80%

I was listening to BBC Greater London Radio (GLR) by stealth, ie. on my walkman with headphones, with the sound turned right down, to prevent anyone from hearing what I was listening to. Yet somehow "they" are still able to tell what station I am listening to on the walkman. After half an hour or so listening to GLR, DJ David Hepworth came out with this;

"I assume Brian, do we have an embarrassment of prizes in there, we do, don't we, absolute obscene amounts of prizes, there will no doubt be a riot at the back door, and that's A-level coming up after this"

The key phrases in what he said are, "EMBARRASSMENT of prizes", and what he himself emphasised verbally, "ABSOLUTE OBSCENE amount of prizes". It is my belief (based on content and tone of voice) that when he spoke these phrases he knew I was listening, and that the phrases refer directly to my situation. The "EMBARRASSMENT" is the embarrassment he and other media people would feel at having their wrongdoing exposed; the "ABSOLUTE OBSCENE" (which he verbally emphasised) described the disgusting sexual abuse which the harassers have been throwing at me.

Of course, I can't prove that this is what he meant, although this has happened enough times that it's hard not to recognise it when you see it. I sent David Hepworth a copy of this explanation, with the results listed in a subsequent item (David Hepworth 9/May/1997).

1673

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
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From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My vacuum tube homebrew transmitter
Message-ID: <5tuvc39tclhur2h3tmopgefc3mvb8o5tal@4ax.com>
References: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com> <67qdnbRAWP81rFPbnZ2dnUVZ_hqdnZ2d@bright.net> <1187975679.459400.139470@r23g2000prd.googlegroups.com> <O8adncMxI-xfxlLbnZ2dnUVZ_tmhnZ2d@bright.net> <Pine.NEB.4.64.0708250002230.19407@panix1.panix.com>
X-Newsreader: Forte Agent 1.92/32.572

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NNTP-Posting-Host: 195.197.41.159
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1188038405 195.197.41.159 (Sat, 25 Aug 2007 13:40:05 EEST)
NNTP-Posting-Date: Sat, 25 Aug 2007 13:40:05 EEST
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:871

On Sat, 25 Aug 2007 00:09:47 -0400, Straydog <asd@panix.com> wrote:

>
>
>On Fri, 24 Aug 2007, Scott wrote:
>
>> Well, all humor aside, I stand by my original answer to BE CAREFUL. True, a
>> KV might not kill you, but if you start out being careless, when you progress
>> up to tubes like a 4-1000A, the B+ will most certainly kill you. The pile of
>> ashes on the floor will be proof enough ;)
>>
>> Again, humor aside, I pride myself on NOT having hit a KV...that takes more
>> skill than hitting it ;)
>
>Knights of Olde Times had scars to prove their courage, bravery, and
>skills and slain dragons. ;-)   (or foolheartiness?)
>
>Then thee can speak of "experience." ;-)
>
>And, once burned, you learn and remember better, too!!! :-)
>
>Memory is wonderful: You recognize when you made that same mistake before!
>
>;-)
>
>And, of course, you get bragging rights if you can talk about a smoke test
>where you really did get the smoke (yeah, I had one and that burnt rubber
>stank, too).

At least in Europe AC/DC radio and television receivers were common, in which you could have the 220 V mains directly in the chassis. You learned quite quicly to check the polarity of the mains plug before starting serving such equipment.

There was a golden rule of always keeping your left hand in your pocket while working with your right hand inside a mains powered or high voltage device. An AC/DC powered device could deliver quite a lot current through the mains fuse and rectifier. If you touched some high voltage part (possibly causing a cramp in your hand), the current would not go through your hart and you would have the other hand operational to pull the plug.

When testing a new power supply, I was sniffing around to detect any overheating components, my nouse touched the mains transformer primary and got an electric shock in my nouse. I did not notice anything special after that, but driving a car immediately after that proved to be difficult, since I really had to concentrate to stay in the lane.

So if you get an electric shock in the head, nouse or ears, please avoid driving a car for a few hours, at least for the safety of others using the road :-).

Paul OH3LWR

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Message-Id: <m07072511024380@4ax.com>
Subject: MI5 Persecution: GLR: David Hepworth (9/May/1997) (2896)
Newsgroups:
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teur.homebrew
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alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 25 Aug 2007 11:02:37 GMT
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X-Original-Lines: 36
Xref: g2news2.google.com alt.sex.masturbation:10128 alt.masturbation:351
hr.comp.amiga:345 tw.bbs.soc.media:275 rec.radio.amateur.homebrew:872
```

GLR-David Hepworth (9/May/1997)

Certainty level: 100%

This time I deliberately listened to Hepworth with the sound turned up on the radio, to try to get a reaction. Sure enough, he and his cronies reacted;

David: "we have executive drivetime, and we have Brian in charge of the prize cupboard. Brian it's not a bad prize cupboard this week is it?"

Brian: "no David in fact it's an absolute (EMPHASIS) embarrassment (END-EMPHASIS) of prizes this evening" (laughter)

David: "what have we got?"

Brian: "well in my left hand alone we've got that .... Gary Clale, I don't know if you remember him obviously still alive and kicking.... and that's just in my left hand"

David: "So it's certainly worth competing. Rock and roll spelling test is your first opportunity to take advantage of this embarrassment of prizes"

What I "read into" this item should again be quite obvious. Remember, I sent off a letter of complaint to Hepworth after his spying activity during the previous show. Here the emphasis on "absolute embarrassment" of prizes shows he knows this is a "key" phrase.

It might be interesting to try to talk to DJs like Hepworth and ask them what they get out of abusing their listeners. But if you challenge them directly, they show their true colour (yellow) by either not answering the challenge, or by denying that harassment has taken place.

2896

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

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Message-Id: <m07072511364595@4ax.com>
Subject: MI5 Persecution: Capital Radio (11/April/1997) (4119)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew,uk.misc

From: MI5Victim@mi5.gov.uk
Date: 25 Aug 2007 11:36:39 GMT
Lines: 21
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 17
Xref: g2news2.google.com alt.sex.masturbation:10132 alt.masturbation:352 hr.comp.amiga:346 tw.bbs.soc.media:276 rec.radio.amateur.homebrew:873

Capital Radio (11/April/1997)

Certainty level: 10%

A nice easy one here. The DJ is heard to say (around 8.30pm);

"Jacko in town, what a gig it's going to be, that guy is amazing, and psychotic, but amazing on stage, 0171-420-0958, on stage he's a madman but he's wonderful"

I was listening to Capital loud and clear, trying to get a reaction. The above may have been a reaction. I'm not sure if it was, and I'm not sure that it wasn't.

4119

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

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Date: Sat, 25 Aug 2007 12:41:50 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My vacuum tube homebrew transmitter
References: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com> <67qdnbRAWP81rFPbnZ2dnUVZ_hqdnZ2d@bright.net> <1187975679.459400.139470@r23g2000prd.googlegroups.com> <O8adncMxI-xfxlLbnZ2dnUVZ_tmhnZ2d@bright.net> <Pine.NEB.4.64.0708250002230.19407@panix1.panix.com> <5tuvc39tclhur2h3tmopgefc3mvb8o5tal@4ax.com>

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Message-ID: <n7qdnXWAkc39iE3bRVnyugA@pipex.net>
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X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 85.210.43.112
X-Trace: sv3-sljdC94u+UaSXvdbowHkyoqSpJ5nm/t3AxYc7cy0/
h4aIOxOWNLzrgXCibiKY7dMSGZg5m/XEbnr1cW!EOB9VKyW4n60s4PHrvPREKedAuuVeVO4Sj/
roZnsNlt6Emdlrgswc0v4W8icgVGmxLTQZhYuSTqx!cqDxJCljTDSn8w==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:874
```

> There was a golden rule of always keeping your left hand in your
> pocket while working with your right hand inside a mains powered or
> high voltage device. An AC/DC powered device could deliver quite a lot
> current through the mains fuse and rectifier. If you touched some high
> voltage part (possibly causing a cramp in your hand), the current
> would not go through your hart and you would have the other hand
> operational to pull the plug.

==============================

Being left handed I now realise that I must be very happy to be alive ;)

Frank   GM0CSZ

```
From -2708848897357l6843
X-Google-Thread: f573f,1523621096c27691,start
X-Google-Thread: 10b346,1523621096c27691,start
X-Google-Thread: 105ae5,1523621096c27691,start
X-Google-Thread: f5125,1523621096c27691,start
X-Google-Thread: fc2a5,1523621096c27691,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
post02.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07072512104493@4ax.com>
Subject: MI5 Persecution: Neil Fox (March/1998) (5342)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 25 Aug 2007 12:10:38 GMT
```

Lines: 129
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 125
Xref: g2news2.google.com alt.sex.masturbation:10134 alt.masturbation:353
hr.comp.amiga:347 tw.bbs.soc.media:277 rec.radio.amateur.homebrew:875

Neil Fox's Juke Box on Capital Radio (week ending 15/March/1998)

Certainty level: 70%

Here is an excerpt from Neil Fox's show on Capital Radio 95.8FM, sometime during the week ending Sunday 15/March/1998 (probably during the weekend, but I don't remember).

First I will give the text of the conversation between Neil Fox and telephone caller Martin, then I will state my interpretation.

(conversation) (F=Dr Fox, M=Martin the caller)

F: coming up on the jukebox, the hotline's 0171-4848-958, just a quick shout here and so who's this going to be then Mr Producer?
(staff, shouting) MARTIN!
F: Couldn't quite hear you, it's going to be?
(staff, normal voice) Martin.
F: Thank you. Martin, hello.
M: Hello, Foxy.
F: How are you Martin.
M: Er, knackered.
F: Why?
M: Didn't get much sleep last night. Party down the road.
F: What time did you go to bed?
M: Four o'clock this morning.
F: Well that sounds quite a reasonable Saturday night if you ask me.
M: I was up at eight.
F: You were up at eight this morning?
M: Yeah.
F: That's sick. Why? What on earth made you get out of bed at eight this morning?
M: My father.
F: Well that's no good. Why is he being sicko, is he being a sadist?
M: No, he out there, sort of clearing room.
F: Listen, is your dad there?
M: No, he's downstairs.
F: Oh mate, can you get him?
M: No.
F: Does he not let you on the phone? The only reason is that I wouldn't mind having a chat with someone who makes anyone get up at eight o'clock on a Sunday morning. I'm sorry, that's ill isn't it, that's out of order.
M: It's sick.
F: I'm just going to ask around here. What do you think then, eight o'clock Sunday morning? That's out of order isn't it, for any father?

(staff) Yeah, definitely.
F: Is he like victimising you or something, is there any reason why he wanted you up at eight o'clock? To clean your room?
M: Well as I say I got up at eight this morning to clean my room and it looks worse that it did yesterday.
F: Well I should have just left it and stayed in there until eleven o'clock if I was you.
M: Well I was up, I didn't get out of bed.
F: What, you didn't get out of bed at eight o'clock? No, he woke you up at eight o'clock. Did you do any cleaning at all?
M: I haven't touched my bedroom.
F: Top man. Boy you're going to get your arse kicked later aren't you. Now a song for you, what can we play?
M: Guns and Roses, "Sweet Child of Mine".
F: And we're going to dedicate this to your father?
M: No we're not, we'll dedicate this to my good mate Jamie, who's sitting on the bed now.
F: Right, hello Jamie. And anyone else? Any top totty in your life at the moment?
M: Unfortunately no.
F: The totty factor is quite low at the moment is it?
M: It's dead.
F: It's dead? What, nothing?
M: Nothing.
F: What, zero? Well, that's pathetic. No wonder you're down. You stay out til four o'clock and nothing. We'd better have words when we're off the radio I think. We need to give you a team talk. You have a good night tonight.
M: And you.
F: Take care.
(song starts)
F: Actually something was going through my mind. I think I'll leave it.

I'm not really sure whether this is in any way about me. It probably isn't. Probably it's just my nasty suspicious mind finding links where none exist. However, here is an explanation of why it might, possibly, be about me.

Throughout this interview, I was throwing abuse at the radio, and to my mind, Neil Fox was hearing the abuse, and responding interactively. This explains why he sounds so stressed when talking to telephone caller Martin, and the general violence of his words including "Boy you're going to get your arse kicked later aren't you".

The piece starts of with the producer shouting the name of the caller, which might be related to my loud vocalisations at the radio. The trouble starts off with Fox saying "That's sick". "Sick" might be taken as a reference to my condition. Then Fox says, "Why is he being sicko, is he being a sadist?", again sick = my illness, "sadist" = attitude of my oppressors towards me. "that's ill isn't it" = further comment on my illness. "Is he like victimising you or something" = again what my enemies are doing to me.

Fox sounds quite happy when he gets Martin to say "It's sick"; as you would expect him to, if the comment were directed at me. It is a constant feature of my enemies' harassment of me that they get intermediaries to verbalise the abuse. Immediately after saying "victimising you" Fox gives a little laugh, to show he thinks the victimisation (of me, not Martin) is funny.

Fox gets increasingly nasty as the piece progresses. "Boy you're going to get your arse kicked later aren't you" is not really what you would expect him to say if he were just talking to Martin. Fox is on the same side as Martin, so why would he be so verbally aggressive to him? On the other hand, if the piece is about me, then his strong words start to make sense.

Fox's jubilation at finding that Martin's "totty factor" is "dead" again doesn't make much sense unless you think that he might not be considering Martin's totty factor, but mine, since it's a fairly well known fact that my "totty factor" is not significantly above zero.

To round off the 135 second interchange, just as the next track is starting, Fox says, "Actually something was going through my mind. I think I'll leave it". Given that I was chucking abuse at Fox throughout, it is only natural for him have thought up a reply that he would have wished to have made, except that such a reply would (a) probably not be suitable for a family show, and (b) have given the game away completely.

So there you are. You the jury, what say you in the case of plaintiff vs. Neil Fox's Juke Box, guilty or not guilty?

5342

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access
```

```
From 1701569223725113104
X-Google-Thread: fc2a5,60f2b7d9efeb2481
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-out.readnews.com!
transit4.readnews.com!panix!panix3.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My vacuum tube homebrew transmitter
Date: Sat, 25 Aug 2007 08:29:21 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 44
Message-ID: <Pine.NEB.4.64.0708250820570.28278@panix3.panix.com>
References: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com>
 <46cea3cf$0$13888$afc38c87@news.optusnet.com.au>
 <Pine.NEB.4.64.0708242342410.19407@panix1.panix.com>
 <pan.2007.08.25.05.37.15.156759@localhost.localdomain>
NNTP-Posting-Host: panix3.panix.com
Mime-Version: 1.0
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Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader1.panix.com 1188044963 17465 166.84.1.3 (25 Aug 2007 12:29:23 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 25 Aug 2007 12:29:23 +0000 (UTC)
In-Reply-To: <pan.2007.08.25.05.37.15.156759@localhost.localdomain>
X-Original-Bytes: 2589
Xref: g2news2.google.com rec.radio.amateur.homebrew:876

On Fri, 24 Aug 2007, geek wrote:

> On Fri, 24 Aug 2007 23:51:36 -0400, Straydog wrote:
>
>>
>>
>> On Fri, 24 Aug 2007, George McLeod wrote:
>>
>>> It is great to know that I am not the last dinosaur left on the planet.
>>
>> Jeeze, what is it, you and me against the world? ;-)
>
> Oh, there's more of us :-)
>
> At 39, I'm a dinosaur at heart with barely a transistor in stock. A couple
> thousand tubes though!

Three of us? Could we form a club? "The dinosaur club"? ;-)

I'm kinda half serious, though. I go through QST and they have this "Old Radio" department now. But its also almost all old _commercial_ gear.

I'm looking for those guys who built all those rigs that appeared in QSTs, CQs, etc. If they are still alive.

I've got probably 100+ myself. Constantly looking at my tube manual and dreaming about the next project(s), whether I should use some tube or a different one, or maybe even something else.

I started out with mostly 7 pin and 9 pin miniatures, but now I'm pushing myself towards octals just for the ease of handling. The "key" means its very easy to get into the socket (get key in hole, rotate and ..click..push in). Besides, the socket pins are bigger, easier to solder. And, since the heat is spread out more, the tube runs cooler so you don't burn yourself when you go to pull out a hot tube to check another of the same kind. Takes up more volume, but, what the hey, I build this stuff spread out for ease of repair, ease of construction, modification.

> Cheers,
> __
> Gregg
>

```
From 1683771910592867810
X-Google-Thread: fc2a5,60f2b7d9efeb2481
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix3.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My vacuum tube homebrew transmitter
Date: Sat, 25 Aug 2007 08:31:04 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 60
Message-ID: <Pine.NEB.4.64.0708250830390.28278@panix3.panix.com>
References: <Pine.NEB.4.64.0708232024500.9052@panix2.panix.com>
 <67qdnbRAWP81rFPbnZ2dnUVZ_hqdnZ2d@bright.net>
<1187975679.459400.139470@r23g2000prd.googlegroups.com>
 <O8adncMxI-xfxlLbnZ2dnUVZ_tmhnZ2d@bright.net>
<Pine.NEB.4.64.0708250002230.19407@panix1.panix.com>
 <5tuvc39tclhur2h3tmopgefc3mvb8o5tal@4ax.com>
NNTP-Posting-Host: panix3.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader1.panix.com 1188045065 20479 166.84.1.3 (25 Aug 2007 12:31:05 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 25 Aug 2007 12:31:05 +0000 (UTC)
In-Reply-To: <5tuvc39tclhur2h3tmopgefc3mvb8o5tal@4ax.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:877


Good comments, Paul. I'll keep the extended story in mind.

On Sat, 25 Aug 2007, Paul Keinanen wrote:

> On Sat, 25 Aug 2007 00:09:47 -0400, Straydog <asd@panix.com> wrote:
>
>>
>>
>> On Fri, 24 Aug 2007, Scott wrote:
>>
>>> Well, all humor aside, I stand by my original answer to BE CAREFUL. True, a
>>> KV might not kill you, but if you start out being careless, when you progress
>>> up to tubes like a 4-1000A, the B+ will most certainly kill you.  The pile of
>>> ashes on the floor will be proof enough ;)
>>>
>>> Again, humor aside, I pride myself on NOT having hit a KV...that takes more
>>> skill than hitting it ;)
>>
>> Knights of Olde Times had scars to prove their courage, bravery, and
>> skills and slain dragons.  ;-)    (or foolheartiness?)
>>
>> Then thee can speak of "experience." ;-)
>>
```

```
>> And, once burned, you learn and remember better, too!!!  :-)
>>
>> Memory is wonderful: You recognize when you made that same mistake before!
>>
>> ;-)
>>
>> And, of course, you get bragging rights if you can talk about a smoke test
>> where you really did get the smoke (yeah, I had one and that burnt rubber
>> stank, too).
>
> At least in Europe AC/DC radio and television receivers were common,
> in which you could have the 220 V mains directly in the chassis. You
> learned quite quicly to check the polarity of the mains plug before
> starting serving such equipment.
>
> There was a golden rule of always keeping your left hand in your
> pocket while working with your right hand inside a mains powered or
> high voltage device. An AC/DC powered device could deliver quite a lot
> current through the mains fuse and rectifier. If you touched some high
> voltage part (possibly causing a cramp in your hand), the current
> would not go through your hart and you would have the other hand
> operational to pull the plug.
> ---
> When testing a new power supply, I was sniffing around to detect any
> overheating components, my nouse touched the mains transformer primary
> and got an electric shock in my nouse. I did not notice anything
> special after that, but driving a car immediately after that proved to
> be difficult, since I really had to concentrate to stay in the lane.
>
> So if you get an electric shock in the head, nouse or ears, please
> avoid driving a car for a few hours, at least for the safety of others
> using the road :-).
>
> Paul OH3LWR
>
>



From -432757000604184591
X-Google-Thread: fc2a5,67de861d14da33dc,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!panix!
panix3.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FYI, FWIW...comments on the 4D32
Date: Sat, 25 Aug 2007 08:37:34 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 19
Message-ID: <Pine.NEB.4.64.0708250831440.28278@panix3.panix.com>
NNTP-Posting-Host: panix3.panix.com
Mime-Version: 1.0
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Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader1.panix.com 1188045457 11582 166.84.1.3 (25 Aug 2007 12:37:37 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sat, 25 Aug 2007 12:37:37 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.homebrew:878

FYi, FWIW...

I just noticed something about the 4D32 transmitting tube.

It looks like the suppressor grid is not connected internally to the cathode. This means it might be good for grounded grid HF amplifier service (being that grounded grid is so nice and stable).

The tube, electrically, looks almost like an 811 in plate dissipation (50 watts instead of 65) but, here's the good part, runs at 600 volts on the plate instead of 1200-1500 for the 811.

The 4D32 has 6.3 v filament. And, the 4D22 has all the same except 26 v filament (?), same electricals otherwise.

And, 600+ volts for HV is a lot easier to get than 1200-1500.

FYI, FWIW

From -1706872685868782853
X-Google-Thread: f573f,cf71bfbadac774b2,start
X-Google-Thread: 10b346,cf71bfbadac774b2,start
X-Google-Thread: 105ae5,cf71bfbadac774b2,start
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X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07072512552570@4ax.com>
Subject: MI5 Persecution: Neil Fox (Nov/1998) (6565)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 25 Aug 2007 12:55:19 GMT
Lines: 54
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 50
Xref: g2news2.google.com alt.sex.masturbation:10138 alt.masturbation:354

Foxy's Showtime on Capital FM 25/11/98 7.35pm

Certainty level: 100%

This one, I can say with absolute certainty, is about me. It was recorded on my Sony Recording Walkman on the evening of Wednesday 25 November 1998. It doesn't mention me by name, so the objective observer might have trouble understanding why I'm so sure it's about me. I'm sure, because the harassment had restarted over the period when this piece was broadcast, and what Capital transmitted would have been in context with events at the time. (Sorry if that explanation is somewhat opaque, but I don't really want to embarrass myself by giving an explanation in detail, and an intelligent reader should be able to work it out for him/her self.)

This isn't the first time Capital have "got at" me; they were doing so right at the very beginning in summer 1990, when they said, "if he listens to Capital then he can't be all bad"; and Tarrant made remarks about me in his breakfast show in spring 1994, when he said, "you know this bloke? he says we're trying to kill him. We should be done for attempted manslaughter."

Unfortunately I didn't record those previous, much more conclusive instances of harassment by Capital DJs, and Capital Radio tells me they only keep recordings for three months. But lately I've been recording everything, and here is one product of that recording.

Neil Fox was introducing some petite Swedish songstress, sounded like Amelia, when he said something about her petite-ness ;

"she's a big big girl, actually she's really about tiny, she's this big, would you say what less than....."

then one of his studio staff shouted, "six inches"

then Fox laughed and said, "less than a meter tall, definitely"

What I think the "six inches" referred to should be obvious. I think it's sexual abuse directed at me.

Also there were a lot of words like "crazy", "mad" etc on this programme, which reinforced my belief that this was on purpose directed at myself.

I think Fox may be something of an unwilling participant in this abuse, he doesn't want to be an abuser but the persecutors are using his show and his staff to get at me. This is not the first time this sort of thing has happened from his show; and my guess is that it won't be the last

6565

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From 6645082201983514243
X-Google-Thread: fc2a5,4725933a8c9a27e
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!nntpserver.com!zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: <g8ywk@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <46cab906$0$7525$88260bb3@free.teranews.com>
Subject: Re: Howes DFD5 Counter help
Date: Fri, 24 Aug 2007 12:30:50 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Lines: 22
Message-ID: <46ceb55a$0$1468$88260bb3@free.teranews.com>
NNTP-Posting-Date: 24 Aug 2007 10:39:23 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:880

Hi just to complete this post and for genral information the GQRP club has copies of all the Howes manuals and were most helpful in finding me the information.

Bill G8YWK
<g8ywk@yahoo.com> wrote in message
news:46cab906$0$7525$88260bb3@free.teranews.com...
> Does anyone have a copy of the circuit diagram for a Howes DFD5 frequency
> counter module. I recently aquired one of these and I would like to get it
> working again. All searches on the web have drawn a blank.
>
> Regards Bill
> g8ywk@yahoo.com
>
>
>
>
> --
> Posted via a free Usenet account from http://www.teranews.com
>

--
Posted via a free Usenet account from http://www.teranews.com

```
From -3590599799252559099
X-Google-Thread: fc2a5,78ce06bf3d51653b,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 25 Aug 2007 15:59:49 -0500
From: Danny Richardson <n_group@k6mhe.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Micro Amp Meter Source?
Date: Sat, 25 Aug 2007 13:59:44 -0700
Message-ID: <bu51d3h95d4asv5tgd3uc18p1gr9u30sbs@4ax.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 11
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 76.102.205.36
X-Trace:
sv3-5US07HphhGyhYvS5oU9LmHbXwqIFoWaAYplh7RPENgYW+dxwN5ebF0ksO8sFdL1W4jYMwm0al8krGF
z!tn3pdflCNveLRmd/54DXaz9300PyBcJhdG8/Y5rourRYLIUG+6mR6o34BXy4yrcz1KEEQkFwzYFX!
jqLNmgNGpyzLDo8eT+xCblDCld0=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:881
```

I'm looking for a small (1� inch square or smaller) 100 micro amp meter. I've looked around the web and at some part suppliers sites without any luck. Is there anyone who could point me to a source? I don't need a high accuracy unit 5% or so is good enough.

Thanks,
Danny, K6MHE

```
From -6242513671163677005
X-Google-Thread: fc2a5,78ce06bf3d51653b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news-out.octanews.net!
```

indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Micro Amp Meter Source?
Date: Sat, 25 Aug 2007 20:11:03 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.08.26.03.11.02.960694@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <bu51d3h95d4asv5tgd3uc18p1gr9u30sbs@4ax.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 11
Organization: Octanews
NNTP-Posting-Date: 25 Aug 2007 22:11:09 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:882

Hi,

Have you tried Mouser.com or Digikey.com?

You could also scavenge a VU meter from an old stereo or tape unit and
make your own scale. Usually they are 1mA, but sometimes, especially the
older ones, are 50 or 100uA.

Cheers!
--
Gregg

From -3873947476050658554
X-Google-Thread: fc2a5,a82623cf4c93a2cd,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i38g2000prf.googlegroups.com!not-for-mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Experimental AMPS Micro Base Station project
Date: Sat, 25 Aug 2007 23:04:45 -0700
Organization: http://groups.google.com
Lines: 11
Message-ID: <1188108285.994490.293290@i38g2000prf.googlegroups.com>
NNTP-Posting-Host: 222.155.162.117
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1188108286 18954 127.0.0.1 (26 Aug 2007 06:04:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 26 Aug 2007 06:04:46 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com

Injection-Info: i38g2000prf.googlegroups.com; posting-host=222.155.162.117;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:883

Hi All,

Not quite in line with amateur radio, but certainly low power radio
experimentation...

http://www.geocities.com/markaren10/AMP_uBase_Station/
Experimental_AMPS_uBase_Station_2007-08-26.html

Regards,

Mark

From 8181931844842297720
X-Google-Thread: fc2a5,e6b6b070bf313b0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!feeder.news-service.com!216.196.110.148.MISMATCH!
border1.nntp.ams.giganews.com!nntp.giganews.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: TS-530s Finals neutralization
Date: 18 Aug 2007 16:09:30 GMT
Lines: 14
Message-ID: <slrnfce6dq.flg.bit-bucket@shell.config.com>
References: <6vNvi.1387$hK5.1064@trndny02> <Bf-
dnaNK9ouskVrbnZ2dnUVZ_gOdnZ2d@comcast.com>
Reply-To: If you must, <Reply_to@my.sig.adr>
X-Trace: individual.net tSf7g4vgPcmRHXPDmovhYQ67N2mYZHa1QrYeruWrhtpGjnhrMA
Cancel-Lock: sha1:7sPifdy6e1vUh2+izChxkCxV+vk=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news2.google.com rec.radio.amateur.homebrew:783

On Sat, 18 Aug 2007 10:11:43 -0500, gb wrote:
>
>I've read where certain resistors in the hybrids served double-duty as
>fuses. What gives?

In my 50+ years in putzing around with electronics, I have many times
observed resistors selflessly assume the responsibilities of a fuse.
HI!HI!

Jonesy
--
```
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
```

*** Killfiling google posts: <http://jonz.net/ng.htm>

```
From 2395885426723l3968
X-Google-Thread: fc2a5,e6b6b070bf313b0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe18.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <6vNvi.1387$hK5.1064@trndny02> <6fednYm-
r831llrbnZ2dnUVZ_u2mnZ2d@comcast.com>
Subject: Re: TS-530s Finals neutralization
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <arIxi.201193$5y.79358@newsfe18.lga>
Date: Sat, 18 Aug 2007 16:15:01 -0400
NNTP-Posting-Host: 68.229.79.253
X-Complaints-To: admin@cox.net
X-Trace: newsfe18.lga 1187468102 68.229.79.253 (Sat, 18 Aug 2007 13:15:02 MST)
NNTP-Posting-Date: Sat, 18 Aug 2007 13:15:02 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:785
```

"gb" <w9nogbspam@arrlspamno.net> wrote in message news:6fednYm- > Quit
relying upon nonsense QSO tech advice -- go to Ken's (K4EAA) web
> site -- and get your FAQ answers about Kenwood Hybrids.
> http://www.k4eaa.com/
>

The advice given on using three-wire grounded AC cords is at best
questionable.

Pete

```
From -8787250494651171449
X-Google-Thread: fc2a5,c886b9835d9da72a,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 18 Aug 2007 20:15:51 -0500
```

Reply-To: "Leland C. Scott" <kc8ldo@arrl.net>
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Mixer Data?
Date: Sat, 18 Aug 2007 21:15:48 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <f6SdnfaapedaBFrbnZ2dnUVZ_vihnZ2d@comcast.com>
Lines: 12
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 68.41.138.160
X-Trace: sv3-Whq4zjMeJuvN6uCq6bnX+9nqDcuAaVpXZt5bqBz0OlXGZMSgFkN2tHO/
8+NHBUWT898xqr1tbospFyo!
AT9VVD7Od5J1DnwIl4ALd8v+dax3iwSN+skfMgD8Ul4RQtBcXo0GZTC8fF3pHzPoUKN99Bp7x1Cy!
jGy7MMzRnAxuf9dCz6nKPnjNnKu7lA==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:786

I have a WJ M14 mixer with sma connectors on all three ports. Does anybody ant data on this mixer? A search on the Internet didn't turn up anything and I get no response from the company even after using a professional for pay search service contacted them.

--
Regards,
Leland C. Scott
KC8LDO

From -2096863787774643124
X-Google-Thread: fc2a5,c886b9835d9da72a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder3.cambrium.nl!feeder2.cambrium.nl!feed.tweaknews.nl!193.201.147.86.MISMATCH!news.astraweb.com!border1.a.newsrouter.astraweb.com!tudelft.nl!txtfeed2.tudelft.nl!multikabel.net!feed20.multikabel.net!sn-xt-ams-06!sn-xt-ams-11!sn-xt-ams-05!sn-ams!sn-feed-ams-03!sn-post-ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Mixer Data?
Date: Sat, 18 Aug 2007 21:41:01 -0500

Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13cfbbg64k4r1b1@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <f6SdnfaapedaBFrbnZ2dnUVZ_vihnZ2d@comcast.com>
In-Reply-To: <f6SdnfaapedaBFrbnZ2dnUVZ_vihnZ2d@comcast.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 19
Xref: g2news2.google.com rec.radio.amateur.homebrew:787

Leland C. Scott wrote:

> I have a WJ M14 mixer with sma connectors on all three ports. Does anybody
> ant data on this mixer? A search on the Internet didn't turn up anything and
> I get no response from the company even after using a professional for pay
> search service contacted them.
>
>

It truly is unfortunate if WJ is now unresponsive; in the '70s and '80s I often wrote WJ requesting data on many products, including mixers, and always received a reply with copious amounts of material including spec sheets, manuals, etc.

How times change...

Regards,

Michael

From 2491512196495107330
X-Google-Thread: fc2a5,e6b6b070bf313b0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 19 Aug 2007 00:02:16 -0500
Message-Id: <r7vkp4-tah.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: Re: TS-530s Finals neutralization
Newsgroups: rec.radio.amateur.homebrew
Date: Sat, 18 Aug 2007 23:58:03 -0500
References: <6vNvi.1387$hK5.1064@trndny02> <Bf-dnaNK9ouskVrbnZ2dnUVZ_gOdnZ2d@comcast.com> <slrnfce6dq.flg.bit-bucket@shell.config.com>
Organization: the clifto consortium
User-Agent: KNode/0.10.5

```
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 15
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.15.125.52
X-Trace: sv3-pbBfY6dGS+xA7Uqg8d6KXMLaqwqJn3P+SNH9rv/
UGYAt1jkMuOU92ZnqUZkrJyWqBnkakKUEvmbNFNs!iLZkuWkboWzhmSilTiMCR0/
PQvsoiqZ9MFkWC3MQFCnGj8mbPoTBJHvpaWu0Lb/T7Ulj1r9fCbkn!s/ima7RuSvAz
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:788

Allodoxaphobia wrote:
> On Sat, 18 Aug 2007 10:11:43 -0500, gb wrote:
>>
>>I've read where certain resistors in the hybrids served double-duty as
>>fuses.  What gives?
>
> In my 50+ years in putzing around with electronics, I have many times
> observed resistors selflessly assume the responsibilities of a fuse.

Probably only those that were unprotected by expensive semiconductors.

--
"You know the difference between cannibals and liberals?
 Cannibals only eat their enemies."
-- Lyndon Baines Johnson


From -2156752638087235150
X-Google-Thread: fc2a5,c886b9835d9da72a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews3.bellsouth.net.POSTED!0ed2130f!
not-for-mail
From: "Mike Lucas" <w5chr@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
References: <f6SdnfaapedaBFrbnZ2dnUVZ_vihnZ2d@comcast.com>
<13cfbbg64k4r1b1@corp.supernews.com>
Subject: Re: Mixer Data?
Lines: 31
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <A3Vxi.19517$aa7.16438@bignews3.bellsouth.net>
```

```
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcbopoacfhhfpiibcjcckeillbjhjaahgaiphh
pddgkipnbdoghnjjghnelkageagdaeafjffeobjmmidimdlhamlkhcoboilaanpamcehcpbdbghpni
NNTP-Posting-Date: Sun, 19 Aug 2007 06:37:20 EDT
Organization: BellSouth Internet Group
Date: Sun, 19 Aug 2007 05:35:32 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:789


"msg" <msg@_cybertheque.org_> wrote in message
news:13cfbbg64k4r1b1@corp.supernews.com...
> Leland C. Scott wrote:
>
>> I have a WJ M14 mixer with sma connectors on all three ports. Does
>> anybody ant data on this mixer? A search on the Internet didn't turn up
>> anything and I get no response from the company even after using a
>> professional for pay search service contacted them.

Leland:
    The two links below give minimal information about power level,
frequency, etc...
If you need more, I'd contact Mini-Circuits Labs (Harvie Kaylie, the pres),
for a
suggested substitute, and then go from there.These are good guys to work
with, and
you should get everything you require. I -hate- having an electronic part
that can't
be specd out!

73, Mike W5CHR
      Memphis


www.netlaputa.ne.jp/~toshi/amp0003.htm

www.westerntestsystems.com/coaxia4.htm






From -7245605136379066588
X-Google-Thread: fc2a5,80f4208f4b78bfea
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r29g2000hsg.googlegroups.com!not-for-
mail
From:  "Gian, I7SWX" <i7swx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I0CG new AD9912 1GHz DDS
Date: Sun, 19 Aug 2007 04:19:54 -0700
```

```
Organization: http://groups.google.com
Lines: 77
Message-ID: <1187522394.068931.303130@r29g2000hsg.googlegroups.com>
References: <1186318543.573793.122530@q75g2000hsh.googlegroups.com>
   <nGExi.2617$pu2.722@bignews1.bellsouth.net>
NNTP-Posting-Host: 82.53.12.157
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1187522394 1049 127.0.0.1 (19 Aug 2007 11:19:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 19 Aug 2007 11:19:54 +0000 (UTC)
In-Reply-To: <nGExi.2617$pu2.722@bignews1.bellsouth.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: r29g2000hsg.googlegroups.com; posting-host=82.53.12.157;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:790

On Aug 18, 5:58 pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
> Gian, I7SWX wrote:
> > Hi all,
> > You may recall my note regarding the expected good results on low
> > spurs using the Analog Devices AD9912 1GHz DDS.
> > Well, my good friend Giuliano, I0CG, (of AD9951 DDS fame) has now
> > experimented enough with this new DDS chip and done some measurements
> > with interesting results.
>
> > His comments are:
>
> > "My laboratory tests demonstrate that spurious performance and
> > frequency extension are superior to all others actual DDS, including
> > the AD9951.
> > In a few words ... This new AD9912 DDS is the best solution available
> > today for amateur radio applications"
>
> > You may visit his web site and see spectrum analyzer screen shots and
> > comparison with his old AD9951 DDS design:
>
> > 1) AD9912 with 190 MHz output ( Clock 1 GHz )Analyzer span= 200 MHz
>
> > 2) old AD9951 with158 MHz output ( clock 500 MHz )Analyzer span= 200
> > MHz
>
> > 3) AD9912 Frequency extension test: 400 MHz output ( clock 1
> > GHz )Analyzer span= 500 MHz
>
> >http://it.geocities.com/giulianoi0cg/dds4.html
>
> > If you have problems to from the web page to be readdressed to his
> > AD9951 DDS project you may try the following address:
>
```

> >http://www.radioamatore.it/i0cg/add9951.html
>
> > Giuliano is designing a new DDS PCB compatible with his actual AD9951
> > board as users of his DDS can easily upgrade to new performances for
> > spurs but also extending the DDS use to VHF and UHF with better SFDR
> > (HF, VHF and UHF VFO = 0-400 MHz with 1GHz clock or 0-480 MHz with
> > 1.2 GHz clock).
>
> > Old and new projects can be easily updated to frequency and
> > performances extension with better SFDR.
>
> > I0CG expect to have the new AD9912 PCB available during this coming
> > September.
>
> > Thanks Giuliano for all your dedicated work on this important aspect
> > of our radio technology.
>
> > 73
> > Gian
> > I7SWX
>
> looks interesting. Checked the AD website and the specs on this chip
> are currently very early. No pricing is posted yet and I'm not sure
> samples are yet available (AD will send free samples to hams).
> I'll have to keep an eye on their web site from time to time for
> updates. And when a circuit board is available PLEASE post the info here!- Hide quoted text -
>
> - Show quoted text -

Hi Ken,

AD9912 and the others, are expected to be released during sepember.

I2CG has done some additional tests usign a R&S 2GHz signal generator
as clock and it looks like the 9912 can be driven to nearly 1.5GHz, so
1.2 to 1.3GHz clock could be suitable.
Now we have to find a low phase clock generator around 1.0 to 1.3 GHz.

73

Gian
I7SWX

From -534370396171910274
X-Google-Thread: fc2a5,f2a8311b2aab7c4e,start
X-Google-Thread: fa029,f2a8311b2aab7c4e,start
X-Google-Attributes: gidfc2a5,gidfa029,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!

```
nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!news.highwinds-
media.com!xara.net!gxn.net!194.159.246.34.MISMATCH!peer-uk.news.demon.net!
kibo.news.demon.net!news.demon.co.uk!demon!not-for-mail
From: "Albert" <albert@albert.force9.co.uk>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.scanner
Subject: Ramsey AR-1C vhf airband kit
Date: Sun, 19 Aug 2007 13:55:45 +0100
Lines: 7
Message-ID: <fa9ekg$74i$1$830fa7a5@news.demon.co.uk>
NNTP-Posting-Host: scoutcorn.demon.co.uk
X-Trace: news.demon.co.uk 1187528145 7314 83.104.226.184 (19 Aug 2007 12:55:45
GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Sun, 19 Aug 2007 12:55:45 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
X-Priority: 3
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.homebrew:791 rec.radio.scanner:429

Hi,

Anyone built this one?  How stable was it?

Albert




From -6651367752954898786
X-Google-Thread: fc2a5,f2a8311b2aab7c4e
X-Google-Thread: fa029,f2a8311b2aab7c4e
X-Google-Attributes: gidfc2a5,gidfa029,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!out02a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx02.iad01.newshosting.com!newshosting.com!198.186.194.251.MISMATCH!
transit4.readnews.com!textspool2.readnews.com!news-xxxfer.readnews.com!news-
out.readnews.com!postnews3.readnews.com!news.coretel.net!not-for-mail
From: "Radiosrfun" <Radiosrfun@radiosrfun.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.scanner
References: <fa9ekg$74i$1$830fa7a5@news.demon.co.uk>
Subject: Re: Ramsey AR-1C vhf airband kit
Date: Sun, 19 Aug 2007 09:55:50 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Lines: 22
Message-ID: <46c84be1$0$26696$ecde5a14@news.coretel.net>
Organization: CoreTel
```

```
NNTP-Posting-Host: 2c7e6ea7.news.coretel.net
X-Trace: DXC=FKiPP<h3?eS?9`a<^BAf\ScYX6N<OEXQ[mBabLJmA5BV_EbW?
JGB72P>aF:`0k>PdWXlj5JkWO;OP
X-Complaints-To: abuse@coretel.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:792 rec.radio.scanner:430
```

"Albert" <albert@albert.force9.co.uk> wrote in message
news:fa9ekg$74i$1$830fa7a5@news.demon.co.uk...

> Hi,
>
> Anyone built this one? How stable was it?
>
> Albert
>
>

I built a couple of their kits - and they worked for what they were intended to do. However - a friend of mine built a "receiver" kit - and it really sucked. He called Ramsey to see about getting it "repaired". They wanted like $75 to do so. He paid almost $50 for the kit. He didn't feel like shelling out another wad of cash - so he junked it.

All I can say is ask them about their repair/replacement issues first - decide if you want to proceed - especially if you're not that skilled in electronics. Good luck!

```
From -235105723086158924
X-Google-Thread: fc2a5,c886b9835d9da72a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 19 Aug 2007 10:30:59 -0500
Reply-To: "Leland C. Scott" <kc8ldo@arrl.net>
From: "Leland C. Scott" <kc8ldo@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <f6SdnfaapedaBFrbnZ2dnUVZ_vihnZ2d@comcast.com>
<13cfbbg64k4r1b1@corp.supernews.com>
<A3Vxi.19517$aa7.16438@bignews3.bellsouth.net>
Subject: Re: Mixer Data?
Date: Sun, 19 Aug 2007 11:30:52 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <c_6dncZ1W9Ou_1XbnZ2dnUVZ_rignZ2d@comcast.com>
Lines: 46
```

```
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 68.41.138.160
X-Trace: sv3-
v387nGAaYaYttq48AggsUjI8WmpvLLqBC51xV1jYRwI7Ti5oFbvsxmxchFVOxvQBE1JvVGkiWx0ybZy!
qlekcXjDmjjrJDxiFUKyoBNOtRNWHj5K3EEoQtx4rgL8OsFWglB4ayJosSWivckaQAk/86yrXlfq!
a0Mg6eykETGSMv4OwA+9q9vbbrUQEA==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:793

Mike;

Thanks for the links. I don't need a substitute part, I have two of these
mixers I picked up at a fleamarket.

--
Regards,
Leland C. Scott
KC8LDO



"Mike Lucas" <w5chr@bellsouth.net> wrote in message
news:A3Vxi.19517$aa7.16438@bignews3.bellsouth.net...
>
> "msg" <msg@_cybertheque.org_> wrote in message
> news:13cfbbg64k4r1b1@corp.supernews.com...
>> Leland C. Scott wrote:
>>
>>> I have a WJ M14 mixer with sma connectors on all three ports. Does
>>> anybody ant data on this mixer? A search on the Internet didn't turn up
>>> anything and I get no response from the company even after using a
>>> professional for pay search service contacted them.
>
> Leland:
>    The two links below give minimal information about power level,
> frequency, etc...
> If you need more, I'd contact Mini-Circuits Labs (Harvie Kaylie, the
> pres), for a
> suggested substitute, and then go from there.These are good guys to work
> with, and
> you should get everything you require. I -hate- having an electronic part
> that can't
> be specd out!
>
> 73, Mike W5CHR
>      Memphis
>
>
> www.netlaputa.ne.jp/~toshi/amp0003.htm
```

```
>
> www.westerntestsystems.com/coaxia4.htm
>
>
>




From -7306863589025805056
X-Google-Thread: f573f,2eca2ae75a02c2ac,start
X-Google-Thread: 10b346,2eca2ae75a02c2ac,start
X-Google-Thread: 105ae5,2eca2ae75a02c2ac,start
X-Google-Thread: f5125,2eca2ae75a02c2ac,start
X-Google-Thread: fc2a5,2eca2ae75a02c2ac,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07071916361908@4ax.com>
Subject: MI5 Persecution: Fitted up 26/4/96 (450)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 19 Aug 2007 16:36:21 GMT
Lines: 138
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 134
Xref: g2news2.google.com alt.sex.masturbation:9375 alt.masturbation:277
hr.comp.amiga:261 tw.bbs.soc.media:229 rec.radio.amateur.homebrew:794

Subject: Re: MI5? Please can someone explain what's going on here?
Newsgroups: uk.misc
References: <4l1khm$4cn@utopia.hacktic.nl> <4l2lhj$6h6@bignews.shef.ac.uk>
Organization: Toronto Free-Net
Distribution:

David Stretch (dds@leicester.ac.uk) wrote:
: In article <19960418.000817.55@hotch.hotch.demon.co.uk>,
: Iain L M Hotchkies <iain@hotch.demon.co.uk> wrote:
: >The (remote) possibility remains that 'Mike Corley' is either
: >not schizophrenic (but is 'pretending' to be so) or 'he' is
: >a product of a number of persons (?psychology students).

: Given other ways in which I have seen people exploit some of The Internet's
: capabilities to disrupt or indulge in sophistry, or to exploit a medium
: that resembles speech without the non-verbal and intonation cues, etc
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: as a means of denigrating others, I question your use, albeit in quotes,
: of the word "remote". I'm not saying it isn't remote and therefore it is
: great, I'm just saying that I don't think we can easily classify it as
: remote, moderate, or great.

I think you can build up quite a good picture based on what someone says and on their posting patterns. I don't think "The Internet" (capitals, no less) is as opaque a medium as you make it out to be.

: It is not easy to determine the validity of all information on The
: Internet without making use of extra supplementary information.

: We do have the problem, pointed out by someone else, of the possibly
: "too perfect" textbook characteristics of what is being posted.

I explained that one, but I don't mind explaining it again (you don't mind having it explained again to you, do you now?). The reason my "symptoms" are such a perfect fit to the textbook is because the people causing the campaign "fitted me up" in such a way that what they did would resemble the symptoms of schizophrenia. Hence TV, radio, other media, people in the streets etc. By a fortunate coincidence (for them) these mthods of harassment are the ones which offer easiest channels of access (for them).

It's really quite neat. All it takes is for people to start believing that the "symptoms" aren't symptoms but reality, though, and the house of cards collapses in a heap. And there are _lots_ of people now who knoiw full well what has gone on.

: If harrassment by email, etc, has happened by someone out of the country,
: can a complaint be made that results in arrest or whatever upon that
: person's entry into the country? An interesting point which Mike may be
: able to inform us about, as he's said he will be in the UK in a few weeks
: time.

Picture the scene at the airport;
"I arrest you for being Mike Corley and mailbombing people"

"But my name isn't Corley. Who he? Mailbombing isn't illegal is it? You'd have to lock up a lot of people if sending annoying email was a crime"

"Er....."

: --
: David Stretch: Greenwood Institute of Child Health, Univ. of Leicester, UK.
: dds@leicester.ac.uk   Phone:+44 (0)116-254-6100   Fax:+44 (0)116-254-4127

==

: context-free parts of articles, conversations and things-on-the-TV and
: assume they are meant for you. Mike, this is called paranoia.

But that's the way real abuse works, too. People interject words and phrases into what they say which they know will have meaning for the listener.

And sometimes, they make it obvious. The very first evening of my job in Oxford, we went for a drink with the technical director, and a couple of other employees. The TD said in an "as-if" aside to one of the others, "Is this the bloke who's been on TV?" (he said it directly in front of me, and obviously meant mke to hear him saying it). The other person replied, "Yes, I think so".

I think the subtext of what the TD said was "Why are they bothering with him? He's so insignificant, why would they possibly want to spend the resources going after him and putting all that expensive technology in his home, when there must be much better targets?". The Technical Director was given to sometimes disrespecting people, you see, and in my case he couldn't see the point of anyone expending money on harassing me.

==

Subject: Re: Treatment of Schizophrenia
Newsgroups: uk.misc,uk.legal,uk.politics,alt.politics.british
Followup-To: uk.misc,uk.legal,uk.politics,alt.politics.british
References: <153321Z22041996@anon.penet.fi> <4lge6r$p00@news.ox.ac.uk>
Organization: Toronto Free-Net
Distribution:

Illtud Daniel (idaniel@jesus.ox.ac.uk) wrote:
: Probably 'cos you come across as reasoned & articulate, it's a pity
: about the other stuff :)

Veracity is so unreasonable.

: >>pps. You should still see a doc again Mike.
: >
: >Doing so. Trouble is, all this mental-illness stuff provides camouflage
: >for the harassment, which is real. It alows people who otherwise would
: >consider the harassment seriously to disregard it. It makes conversations
: >with a lawyer or police brief when otherwise it would merit discussion.

: The point is that there are two possibilities happening here-

: 1. There's a large conspiracy of people out to get you, for no
:   other reason than that they have the means to do so, and that
:   it involves a lot of the Media & a proportion of the public

: 2. You (who admit to having some headspace problems) are suffering
:   from acute paranoid schizophrenia.

: Possibility #1 is _possible_, but would be unprecendented (OTOH,
: how would we know?), unfeasible, and many other things beginning
: with _un_ which I can't think of at the moment. Besides, if there
: was something going on, chances are some of us here would know
: about it, and I'm convinced that nobody does.

"Unprecedented" hits the nail on the head. It _is_ unprecedented, but we

have only just reached the technical stage at which it is feasible, and
we know video-spying is done to other people (NB the Diana-Hewitt
episode) and is a routine tool of security agencies.

Perhaps what is unprecedented is not the technical side, but the social
manipulation of many people by a concealed element in what other
countries would be called the secret police. The most disturbing element
is the degree to which people allow themselves to be unquestioningly
manipulated by an evil element within the state.

450

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From -2313568826173123333
X-Google-Thread: f573f,f3ed409d7dfa65e4,start
X-Google-Thread: 10b346,f3ed409d7dfa65e4,start
X-Google-Thread: 105ae5,f3ed409d7dfa65e4,start
X-Google-Thread: f5125,f3ed409d7dfa65e4,start
X-Google-Thread: fc2a5,f3ed409d7dfa65e4,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07071917160195@4ax.com>
Subject: MI5 Persecution: Bernard Levin 1/6/96 (1673)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 19 Aug 2007 17:16:03 GMT
Lines: 52
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 48
Xref: g2news2.google.com alt.sex.masturbation:9384 alt.masturbation:278
hr.comp.amiga:262 tw.bbs.soc.media:230 rec.radio.amateur.homebrew:795

Subject: Re: "FANATIC'S FARE FOR THE COMMON MAN"
Newsgroups: uk.misc,uk.media,uk.legal,uk.politics.misc
Followup-To: uk.misc,uk.media,uk.legal,uk.politics.misc
References: <Ds0L1o.BMF.0.bloor@torfree.net> <ADCF291096681F4E@cara.demon.co.uk>
Organization: Toronto Free-Net
Distribution:

Peter Ceresole (peter@cara.demon.co.uk) wrote:
: In article <Ds0L1o.BMF.0.bloor@torfree.net>,
: bu765@torfree.net (Mike Corley) quoted a typical, overblown Bernard Levin
: piece, which sounds exactly like any number of other pieces by Levin over
: the past thirty years.

: He then goes on to draw an anguished parallel with a totally unrelated
: incident that had happened between him and a friend a few days earlier.

It is in the same style as his other pieces, but it's so close to what actually happened a few days previously, that it's completely reasonable to assume that someone told Levin about the meeting, hammed it up a little bit and motivated him to write that article.

Look at the parallels;

1. "madman running loose about London"

2. it's about a meeting which took place recently

3. the police are called (he must be controlled, however much that consumes in resources)

4. he might be violent, approach with caution, yes we're laughing but really we're afraid of him, or is it perhaps our own propaganda that we're letting manipulate us

5. he "bursts into tears, and swears it's all true - and it is" a very exaggerated impression of the conclusion of that meeting

Don't worry if you don't believe me, neither my friend to whom I explained this nor my GP believe me either (until the friend found out otherwise!). If someone just presented this to you as I am presenting it now then I wouldn't find it credible (most likely), so it's not until you actually find out it's true that you can find it credible. And by then it's too late, because they've got you in their trap and explained how "funny" the abuse is.

1673

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
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X-Google-Thread: f573f,2eca2ae75a02c2ac
X-Google-Thread: 10b346,2eca2ae75a02c2ac
X-Google-Thread: 105ae5,2eca2ae75a02c2ac

X-Google-Thread: f5125,2eca2ae75a02c2ac
X-Google-Thread: fc2a5,2eca2ae75a02c2ac
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07071917423630@4ax.com>
Subject: MI5 Persecution: Fitted up 26/4/96 (450)
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alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 19 Aug 2007 17:42:37 GMT
Lines: 138
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 134
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hr.comp.amiga:263 tw.bbs.soc.media:231 rec.radio.amateur.homebrew:796

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: --
: David Stretch: Greenwood Institute of Child Health, Univ. of Leicester, UK.
: dds@leicester.ac.uk   Phone:+44 (0)116-254-6100   Fax:+44 (0)116-254-4127

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

```
From -7286445020053106713
X-Google-Thread: fc2a5,80f4208f4b78bfea
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews8.bellsouth.net.POSTED!ef55a73e!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.12 (X11/20070606)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I0CG new AD9912 1GHz DDS
References: <1186318543.573793.122530@q75g2000hsh.googlegroups.com>
<nGExi.2617$pu2.722@bignews1.bellsouth.net>
<1187522394.068931.303130@r29g2000hsg.googlegroups.com>
In-Reply-To: <1187522394.068931.303130@r29g2000hsg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 12
Message-ID: <on2yi.17736$Lu.10187@bignews8.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mabncmnekmdohbabdbdpiflmbcekedmfhojhikkbagflhcbohifcnncaokkaibdngphaoggkkghhjdkkpa
jcefoijfdncediinmdmbbbbpojfcindkplkmhbobemncobcfmchnhegghbkcnjnahpbbhdpjpghcno
NNTP-Posting-Date: Sun, 19 Aug 2007 17:12:52 EDT
Organization: BellSouth Internet Group
Date: Sun, 19 Aug 2007 21:12:52 +0000
Xref: g2news2.google.com rec.radio.amateur.homebrew:797
```

Gian, I7SWX wrote:

>> Now we have to find a low phase clock generator around 1.0 to 1.3 GHz.
>
> 73
>
> Gian
> I7SWX
>

Rots a Ruck!
 From the early specs looked like the chip has a built in PLL to
generate the clock from a lower frequency source. Phase noise might not
be as good though.

```
From 7283979711921805754
X-Google-Thread: fc2a5,24758f2f74bb8816
X-Google-Attributes: gidfc2a5,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!out01b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc03.POSTED!d89a2db8!
not-for-mail
From: "Dale Parfitt" <par@parelectronics.com>
Newsgroups: rec.radio.amateur.homebrew
References: <tXoxi.30$A57.28@trnddc04>
<i9gec3td3d5nm2sgh4ectjn2ve90t2hk50@4ax.com>
Subject: Re: Digital Readout for TV Rotator
Lines: 32
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <OS4yi.2692$ni6.673@trnddc03>
Date: Mon, 20 Aug 2007 00:02:54 GMT
NNTP-Posting-Host: 63.19.174.15
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc03 1187568174 63.19.174.15 (Sun, 19 Aug 2007 20:02:54 EDT)
NNTP-Posting-Date: Sun, 19 Aug 2007 20:02:54 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:798

<no.spam@no.uce.bellatlantic.net> wrote in message
news:i9gec3td3d5nm2sgh4ectjn2ve90t2hk50@4ax.com...
> On Fri, 17 Aug 2007 22:04:09 GMT, "Dale Parfitt"
> <par@parelectronics.com> wrote:
>
>>I have been searching for a QST article that detailed modifying a TV style
>>rotator such that the readout was a digital panel meter that was scaled
>>for
>>degrees.
>>Does anyone recall the article- year/month?
>>
>>Tnx,
>>Dale W4OP
>
> Dale,
>
> June 2003 QST page 28, "affordable AZ-EL positioner for small
> antenna".
>
> Obviously you can just buld one. I did the bridge system
> using a DPM to display 0-360mV as degrees.
>
> Allison KB1GMX

Thanks guys- I ordered the CM digital control unit for $38 as that is the
rotator I already have on my shielded loop.

73,

Dale W4OP

From -8969667696364238946
X-Google-Thread: f573f,2eca2ae75a02c2ac
X-Google-Thread: 10b346,2eca2ae75a02c2ac
X-Google-Thread: 105ae5,2eca2ae75a02c2ac
X-Google-Thread: f5125,2eca2ae75a02c2ac
X-Google-Thread: fc2a5,2eca2ae75a02c2ac
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07072009513352@4ax.com>
Subject: MI5 Persecution: Fitted up 26/4/96 (450)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 05:55:14 GMT
Lines: 138
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 134
Xref: g2news2.google.com alt.sex.masturbation:9428 alt.masturbation:280
hr.comp.amiga:273 tw.bbs.soc.media:234 rec.radio.amateur.homebrew:799

Subject: Re: MI5? Please can someone explain what's going on here?
Newsgroups: uk.misc
References: <4l1khm$4cn@utopia.hacktic.nl> <4l2lhj$6h6@bignews.shef.ac.uk>
Organization: Toronto Free-Net
Distribution:

David Stretch (dds@leicester.ac.uk) wrote:
: In article <19960418.000817.55@hotch.hotch.demon.co.uk>,
: Iain L M Hotchkies <iain@hotch.demon.co.uk> wrote:
: >The (remote) possibility remains that 'Mike Corley' is either
: >not schizophrenic (but is 'pretending' to be so) or 'he' is
: >a product of a number of persons (?psychology students).

: Given other ways in which I have seen people exploit some of The Internet's
: capabilities to disrupt or indulge in sophistry, or to exploit a medium
: that resembles speech without the non-verbal and intonation cues, etc
: as a means of denigrating others, I question your use, albeit in quotes,
: of the word "remote". I'm not saying it isn't remote and therefore it is
: great, I'm just saying that I don't think we can easily classify it as
: remote, moderate, or great.

I think you can build up quite a good picture based on what someone says and on their posting patterns. I don't think "The Internet" (capitals, no less) is as opaque a medium as you make it out to be.

: It is not easy to determine the validity of all information on The
: Internet without making use of extra supplementary information.

: We do have the problem, pointed out by someone else, of the possibly
: "too perfect" textbook characteristics of what is being posted.

I explained that one, but I don't mind explaining it again (you don't mind having it explained again to you, do you now?). The reason my "symptoms" are such a perfect fit to the textbook is because the people causing the campaign "fitted me up" in such a way that what they did would resemble the symptoms of schizophrenia. Hence TV, radio, other media, people in the streets etc. By a fortunate coincidence (for them) these mthods of harassment are the ones which offer easiest channels of access (for them).

It's really quite neat. All it takes is for people to start believing that the "symptoms" aren't symptoms but reality, though, and the house of cards collapses in a heap. And there are _lots_ of people now who knoiw full well what has gone on.

: If harrassment by email, etc, has happened by someone out of the country,
: can a complaint be made that results in arrest or whatever upon that
: person's entry into the country? An interesting point which Mike may be
: able to inform us about, as he's said he will be in the UK in a few weeks
: time.

Picture the scene at the airport;
"I arrest you for being Mike Corley and mailbombing people"

"But my name isn't Corley. Who he? Mailbombing isn't illegal is it? You'd have to lock up a lot of people if sending annoying email was a crime"

"Er....."

: --
: David Stretch: Greenwood Institute of Child Health, Univ. of Leicester, UK.
: dds@leicester.ac.uk   Phone:+44 (0)116-254-6100   Fax:+44 (0)116-254-4127

==

: context-free parts of articles, conversations and things-on-the-TV and
: assume they are meant for you. Mike, this is called paranoia.

But that's the way real abuse works, too. People interject words and phrases into what they say which they know will have meaning for the listener.

And sometimes, they make it obvious. The very first evening of my job in Oxford, we went for a drink with the technical director, and a couple of other employees. The TD said in an "as-if" aside to one of the others, "Is this the bloke who's been on TV?" (he said it directly in front of me, and obviously meant mke to hear him saying it). The other person replied, "Yes, I think so".

I think the subtext of what the TD said was "Why are they bothering with him? He's so insignificant, why would they possibly want to spend the resources going after him and putting all that expensive technology in his home, when there must be much better targets?". The Technical Director was given to sometimes disrespecting people, you see, and in my case he couldn't see the point of anyone expending money on harassing me.

Subject: Re: Treatment of Schizophrenia
Newsgroups: uk.misc,uk.legal,uk.politics,alt.politics.british
Followup-To: uk.misc,uk.legal,uk.politics,alt.politics.british
References: <153321Z22041996@anon.penet.fi> <4lge6r$p00@news.ox.ac.uk>
Organization: Toronto Free-Net
Distribution:

Illtud Daniel (idaniel@jesus.ox.ac.uk) wrote:
: Probably 'cos you come across as reasoned & articulate, it's a pity
: about the other stuff :)

Veracity is so unreasonable.

: >>pps. You should still see a doc again Mike.
: >
: >Doing so. Trouble is, all this mental-illness stuff provides camouflage
: >for the harassment, which is real. It alows people who otherwise would
: >consider the harassment seriously to disregard it. It makes conversations
: >with a lawyer or police brief when otherwise it would merit discussion.

: The point is that there are two possibilities happening here-

: 1. There's a large conspiracy of people out to get you, for no
:   other reason than that they have the means to do so, and that
:   it involves a lot of the Media & a proportion of the public

: 2. You (who admit to having some headspace problems) are suffering
:   from acute paranoid schizophrenia.

: Possibility #1 is _possible_, but would be unprecendented (OTOH,
: how would we know?), unfeasible, and many other things beginning
: with _un_ which I can't think of at the moment. Besides, if there
: was something going on, chances are some of us here would know
: about it, and I'm convinced that nobody does.

"Unprecedented" hits the nail on the head. It _is_ unprecedented, but we have only just reached the technical stage at which it is feasible, and we know video-spying is done to other people (NB the Diana-Hewitt episode) and is a routine tool of security agencies.

Perhaps what is unprecedented is not the technical side, but the social manipulation of many people by a concealed element in what other countries would be called the secret police. The most disturbing element is the degree to which people allow themselves to be unquestioningly manipulated by an evil element within the state.

450

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

```
From -3502750279529080939
X-Google-Thread: f573f,f3ed409d7dfa65e4
X-Google-Thread: 10b346,f3ed409d7dfa65e4
X-Google-Thread: 105ae5,f3ed409d7dfa65e4
X-Google-Thread: f5125,f3ed409d7dfa65e4
X-Google-Thread: fc2a5,f3ed409d7dfa65e4
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07072010162429@4ax.com>
Subject: MI5 Persecution: Bernard Levin 1/6/96 (1673)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 06:20:05 GMT
Lines: 52
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 48
Xref: g2news2.google.com alt.sex.masturbation:9429 alt.masturbation:281
hr.comp.amiga:274 tw.bbs.soc.media:235 rec.radio.amateur.homebrew:800

Subject: Re: "FANATIC'S FARE FOR THE COMMON MAN"
Newsgroups: uk.misc,uk.media,uk.legal,uk.politics.misc
Followup-To: uk.misc,uk.media,uk.legal,uk.politics.misc
References: <Ds0L1o.BMF.0.bloor@torfree.net> <ADCF291096681F4E@cara.demon.co.uk>
Organization: Toronto Free-Net
Distribution:
```

Peter Ceresole (peter@cara.demon.co.uk) wrote:
: In article <Ds0L1o.BMF.0.bloor@torfree.net>,
: bu765@torfree.net (Mike Corley) quoted a typical, overblown Bernard Levin

: piece, which sounds exactly like any number of other pieces by Levin over
: the past thirty years.

: He then goes on to draw an anguished parallel with a totally unrelated
: incident that had happened between him and a friend a few days earlier.

It is in the same style as his other pieces, but it's so close to what actually happened a few days previously, that it's completely reasonable to assume that someone told Levin about the meeting, hammed it up a little bit and motivated him to write that article.

Look at the parallels;

1. "madman running loose about London"

2. it's about a meeting which took place recently

3. the police are called (he must be controlled, however much that consumes in resources)

4. he might be violent, approach with caution, yes we're laughing but really we're afraid of him, or is it perhaps our own propaganda that we're letting manipulate us

5. he "bursts into tears, and swears it's all true - and it is" a very exaggerated impression of the conclusion of that meeting

Don't worry if you don't believe me, neither my friend to whom I explained this nor my GP believe me either (until the friend found out otherwise!). If someone just presented this to you as I am presenting it now then I wouldn't find it credible (most likely), so it's not until you actually find out it's true that you can find it credible. And by then it's too late, because they've got you in their trap and explained how "funny" the abuse is.

1673

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

```
From 4183297968360640982
X-Google-Thread: f573f,55ede0621c2376c5,start
X-Google-Thread: 10b346,55ede0621c2376c5,start
X-Google-Thread: 105ae5,55ede0621c2376c5,start
X-Google-Thread: f5125,55ede0621c2376c5,start
X-Google-Thread: fc2a5,55ede0621c2376c5,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07072010392993@4ax.com>
Subject: MI5 Persecution: alt.fan.mike-corley 6/6/96 (2896)
Newsgroups: alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew
Followup-To: alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 06:43:11 GMT
Lines: 43
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 39
Xref: g2news2.google.com alt.sex.masturbation:9430 alt.masturbation:282 hr.comp.amiga:275 tw.bbs.soc.media:236 rec.radio.amateur.homebrew:801

From: richard@musicians-net.co.uk (Richard Fairhurst)
Newsgroups: uk.misc,uk.media,uk.legal,uk.politics.misc
Subject: A Mike Corley newsgroup?
Date: Thu Jun 6 05:02:17 1996

In article <2520@osiris.win-uk.net>, burridge@osiris.win-uk.net (Paul Burridge) wrote:

> In article <833844951snz@eloka.demon.co.uk>, Owen Lewis (oml@eloka.demon.co.uk) writes [re: Mike Corley]:
> >To be honest, having made the mistake of reading his magnum opus twice
> >(like many forms of discomfort, one is prone to repeat the experience to
> >confirm that it really is a bad as one thought), I read nothing he writes
> >but am tempted by some of the sub-threads that develop.
>
> I made the grave error of showing one of his masterpieces to my
> mother, together with some of the (less than respectful) responses
> to it. Regrettably, she is now addicted to the Corley saga, is
> very much an admirer of him (viewing him as a pugilistic underdog
> deserving of great admiration) and I have to waste reams of paper
> printing all this bilge out every other day, for her delecation.

Given that Mr Corley clearly holds a certain fascination for some people, and that his website, although "informative", isn't exactly ideal for encouraging discussion of the sort that we all enjoy so much (including Mike himself, by the look of things), would anyone be up for a Mike Corley newsgroup - uk.fan.mike-corley, alt.fan.mike-corley, whatever? (Sorry, I'm not very well up on these things.)

This would be a perfect place for Mike to post his writings, and perhaps the occasional "look at the ...mike-corley newsgroup" posting in uk.misc and so on would be accepted in place of the current cross-posts.

--
Richard Fairhurst (assistant editor, Keyboard Review)
"I am the vine: and you are the branches"

2896

--
Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From 6506750038938397436
X-Google-Thread: f573f,846da9c95bc3aa20,start
X-Google-Thread: 10b346,846da9c95bc3aa20,start
X-Google-Thread: 105ae5,846da9c95bc3aa20,start
X-Google-Thread: f5125,846da9c95bc3aa20,start
X-Google-Thread: fc2a5,846da9c95bc3aa20,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07072011025951@4ax.com>
Subject: MI5 Persecution: Old_500 5/7/96 (4119)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 07:06:39 GMT
Lines: 63
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 59
Xref: g2news2.google.com alt.sex.masturbation:9432 alt.masturbation:283
hr.comp.amiga:276 tw.bbs.soc.media:237 rec.radio.amateur.homebrew:802

From: box6565@embankment.com (Old_500)
Newsgroups: uk.misc
Subject: Dear Mike Corley
Followup-To: uk.legal,uk.misc
Date: Fri, 05 Jul 1996 15:41:16 GMT
Organization: XYz
Lines: 55
Message-ID: <31dd3788.8481134@news.dircon.co.uk>
NNTP-Posting-Host: gw1-073.pool.dircon.co.uk
X-Newsreader: Forte Agent .99e/16.227

==

Subject: Now we tell the truth as it really is
Newsgroups: uk.misc
Organization: Toronto Free-Net
Summary:
Keywords:

:AND a second posting which appeared in uk.legal on 5th July 1996 (isn't Mr
:Corley popular ?)

> Dear Mike,

> I've just spoken to a man who knows and he has told me you
> have never ever been a target.

> My man knows because he once wrote a report on you after
> you made complaints.

Come off it "Big Ears", if you're going to pretend someone else is giving me advice then at least get one of your fellow coppers to write it so that it isn't obviously written in the same style as your posts.

Also both your post and the one you're pretending isn't yours were posted from pipex via news.dircon.co.uk, viz:

YOURS;

From: BigEars@technocom.com (Big Ears.)
Message-ID: <31ddacfe.7445797@news.dircon.co.uk>
NNTP-Posting-Host: gw5-072.pool.dircon.co.uk

"NOT YOURS";

From: box6565@embankment.com (Old_500)
Message-ID: <31dd3788.8481134@news.dircon.co.uk>
NNTP-Posting-Host: gw1-073.pool.dircon.co.uk

:NCIS leaks and most policemen regard it as unaccountable and occasionally
:insecure. M Howard promises to make NCIS publicly accountable.

You know a lot about what policemen think, don't you?

4119

--
Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From 7947774343400675595
X-Google-Thread: f573f,7af75f8b1f57155d,start
X-Google-Thread: 10b346,7af75f8b1f57155d,start
X-Google-Thread: 105ae5,7af75f8b1f57155d,start
X-Google-Thread: f5125,7af75f8b1f57155d,start
X-Google-Thread: fc2a5,7af75f8b1f57155d,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07072011285688@4ax.com>
Subject: MI5 Persecution: Silly-billy 6/7/96 (5342)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 07:32:36 GMT
Lines: 118
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 114
Xref: g2news2.google.com alt.sex.masturbation:9438 alt.masturbation:284 hr.comp.amiga:278 tw.bbs.soc.media:238 rec.radio.amateur.homebrew:803

From: Mike_Corley_Fan_Club@Nut_house.org (Old_500)
Newsgroups: uk.misc,uk.legal,uk.media,alt.radio.uk,rec.arts.tv.uk.misc
Subject: MC Exposed as a Fraud
Date: Sat, 06 Jul 1996 17:01:05 GMT
Organization: Anti-Nuts Inc.
Lines: 33
Message-ID: <31de9b91.11926469@news.dircon.co.uk>
References: <Du4LqI.32o.0.bloor@torfree.net>
NNTP-Posting-Host: gw5-055.pool.dircon.co.uk
X-Newsreader: Forte Agent .99e/16.227

Sad, confused and emotional disturbed Mike Corley wrote:

{ snip }

Because he has made himself into a martyr and now he finds it impossible to back down. Mike's big secret has now been exposed. He made everything up.

Every time Mike makes allegations against the police, MI5, Tom-Dick-and-Harry etc. those organisations have taken people off vitally important work to ascertain whether or not there was any substance in Mike's ranting allegations.

When I'm told by someone who really does know such things that there was never any plot to get Mike then I trust that person sufficiently enough to accept his word.

The problem is Mike has escalated matters to an extreme level and like many silly billys he will find it impossible to give up all his self created crap and to live a normal life. After all what can Mike do now this crap has been exposed as untrue ? What new cause can Mike dedicate himself to ? (Some might read that as: who else can Mike now start upsetting ?)

So Mike write to John Major, c/o the Private Secretary, 10 Downing Street, London SW1A 2AA and ask the Prime Minister to help you. I'd normally disclose his fax numbers but if I did that you might jam up the lines with abusive postings just like you do here on Usenet.

Is anyone interested in joining with me to do a mass e-mailing of protests to Anon Penet and to Toronto Free Net in an attempt to flood their computer systems thus forcing them to seriously consider pulling the plug on Mike ? I'm not sure but is my proposal called a "flame" ?

==

From: BigEars@technocom.com (Big Ears.)
Newsgroups: uk.misc,uk.legal,uk.media,alt.radio.uk,rec.arts.tv.uk.misc
Subject: Re: MC Exposed as a Fraud
Date: Sat Jul 6 17:34:46 1996

John Youles commented:

> I've found that torfree.net don't respond, perhaps if they got a high
> enough number of complaints they might take notice. See their web pages
> for email addresses.

Perhaps we should give Mike 7 days from today (6 July 96) to come to his senses and they start a massive multiple E-mailing campaign to Toronto Free Net. If all us victims send multiple copies of E-mails to the right addresses in Toronto then perhaps the Canadians will begin to get the appropriate message.

Copy e-mailed to Mike, just so he knows what is coming if he persists.

Big Ears. Posted to uk.misc
==
Please think of the people sleeping in shop doorways every night
==

Subject: I'm wasting MI5's time! I should be arrested!
Newsgroups:
uk.misc,uk.legal,rec.arts.tv.uk.misc,alt.journalism,alt.journalism.print,$

Organization: Toronto Free-Net
Summary:
Keywords:

It's such a pity that the Security Service has no powers of arrest. How are they supposed to implement a proper secret police state without the ability to snatch Joe Citizen off the street whenever they feel like it?

"Old_500" aka "Big Ears" aka "PC Plod" wrote:
>Every time Mike makes allegations against the police, MI5,
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>ranting allegations.

I see. So they're not wasting six years of manpower to persecute you. They're wasting six years of manpower to prove I'm _not_ being persecuted.

I wish I was clever enough to think of something like that. I really, really do.

>When I'm told by someone who really does know such things that there was
>never any plot to get Mike then I trust that person sufficiently enough to
>accept his word.

Come on "Big Ears", why don't you admit that you made this posting? This is exactly the same line you were feeding me a few months ago. The posts are from the same news server, it's even the same newsreading software (Forte Agent .99e/16.227).

I'm afraid that if you friend "in the know" denied the existence of a plot then he was being, as they say, economical with the truth. Judging by the extreme reaction in London in May, and the panic you're showing now, as well as the replay post yesterday, I would say that things are hotting up again. But for you this time, not for me. I am out of harm's way, and there is very little you can do as long as I stay out of the UK.

5342

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From -3217502293912815830
X-Google-Thread: f573f,33db574f6d4cb180,start
X-Google-Thread: 10b346,33db574f6d4cb180,start
X-Google-Thread: 105ae5,33db574f6d4cb180,start
X-Google-Thread: f5125,33db574f6d4cb180,start
X-Google-Thread: fc2a5,33db574f6d4cb180,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07072013264138@4ax.com>
Subject: MI5 Persecution: Silly-billy 6/7/96 (450)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 13:26:44 GMT
Lines: 118
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 114
Xref: g2news2.google.com alt.sex.masturbation:9442 alt.masturbation:286
hr.comp.amiga:280 tw.bbs.soc.media:239 rec.radio.amateur.homebrew:804

From: Mike_Corley_Fan_Club@Nut_house.org (Old_500)
Newsgroups: uk.misc,uk.legal,uk.media,alt.radio.uk,rec.arts.tv.uk.misc
Subject: MC Exposed as a Fraud
Date: Sat, 06 Jul 1996 17:01:05 GMT
Organization: Anti-Nuts Inc.
Lines: 33
Message-ID: <31de9b91.11926469@news.dircon.co.uk>
References: <Du4LqI.32o.0.bloor@torfree.net>
NNTP-Posting-Host: gw5-055.pool.dircon.co.uk
X-Newsreader: Forte Agent .99e/16.227

Sad, confused and emotional disturbed Mike Corley wrote:

{ snip }

Because he has made himself into a martyr and now he finds it impossible to back down. Mike's big secret has now been exposed. He made everything up.

Every time Mike makes allegations against the police, MI5, Tom-Dick-and-Harry etc. those organisations have taken people off vitally important work to ascertain whether or not there was any substance in Mike's ranting allegations.

When I'm told by someone who really does know such things that there was never any plot to get Mike then I trust that person sufficiently enough to accept his word.

The problem is Mike has escalated matters to an extreme level and like many silly billys he will find it impossible to give up all his self created crap and to live a normal life. After all what can Mike do now this crap has been exposed as untrue ? What new cause can Mike dedicate himself to ? (Some might read that as: who else can Mike now start upsetting ?)

So Mike write to John Major, c/o the Private Secretary, 10 Downing Street, London SW1A 2AA and ask the Prime Minister to help you. I'd normally disclose his fax numbers but if I did that you might jam up the lines with abusive postings just like you do here on Usenet.

Is anyone interested in joining with me to do a mass e-mailing of protests to Anon Penet and to Toronto Free Net in an attempt to flood their computer systems thus forcing them to seriously consider pulling the plug on Mike ? I'm not sure but is my proposal called a "flame" ?

==

From: BigEars@technocom.com (Big Ears.)
Newsgroups: uk.misc,uk.legal,uk.media,alt.radio.uk,rec.arts.tv.uk.misc
Subject: Re: MC Exposed as a Fraud
Date: Sat Jul 6 17:34:46 1996

John Youles commented:

> I've found that torfree.net don't respond, perhaps if they got a high
> enough number of complaints they might take notice. See their web pages
> for email addresses.

Perhaps we should give Mike 7 days from today (6 July 96) to come to his senses and they start a massive multiple E-mailing campaign to Toronto Free Net. If all us victims send multiple copies of E-mails to the right addresses in Toronto then perhaps the Canadians will begin to get the appropriate message.

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==================================================================
 Please think of the people sleeping in shop doorways every night
==================================================================
```

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450

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

```
From -8265201937834517329
X-Google-Thread: fc2a5,a04d585a393bb43a,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!w3g2000hsg.googlegroups.com!not-for-
mail
From:  sales@transmittersrus.com
Newsgroups: rec.radio.amateur.homebrew
Subject: 1500w Mobile
Date: Mon, 20 Aug 2007 06:29:52 -0700
Organization: http://groups.google.com
Lines: 21
Message-ID: <1187616592.438900.108130@w3g2000hsg.googlegroups.com>
NNTP-Posting-Host: 89.243.67.131
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1187616592 16819 127.0.0.1 (20 Aug 2007 13:29:52 GMT)
```

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 20 Aug 2007 13:29:52 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: w3g2000hsg.googlegroups.com; posting-host=89.243.67.131;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:805
```

It's that mad time of year.

Wanting to move up from my current Metron mobile amp what thoughts on basic layout of a 14v DC powered amp that could run the full legal limit?

Would you run say, 16 Toshiba 2SC2879 devices (within their total dissipation specs) to keep IMD halfway reasonable or would you consider an on-board switcher PSU up to say 80-100v to use some more modern FET's. Is this at all feasable?

Of course a 'stiff' DC supply is required whichever way you go and the extra few dB in signal is questionable as to whether it's worth all the trouble.

I think a Hi-Q antenna would handle the power so that's not a concern.

Your thoughts on "Son of Metron".

Phil G4ZOW

```
From 6644612923176966519
X-Google-Thread: f573f,5229d92507742a23,start
X-Google-Thread: 10b346,5229d92507742a23,start
X-Google-Thread: 105ae5,5229d92507742a23,start
X-Google-Thread: f5125,5229d92507742a23,start
X-Google-Thread: fc2a5,5229d92507742a23,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07072013491495@4ax.com>
Subject: MI5 Persecution: BBC+ITN=MI5 23/7/96 (1673)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
```

Date: 20 Aug 2007 13:49:18 GMT
Lines: 80
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 76
Xref: g2news2.google.com alt.sex.masturbation:9443 alt.masturbation:287
hr.comp.amiga:281 tw.bbs.soc.media:240 rec.radio.amateur.homebrew:806

Newsgroups: uk.misc,alt.radio.uk,uk.media,alt.politics.british,uk.legal
From: bu765@torfree.net (Mike Corley)
Subject: MI5 Buy into the Media
Message-ID: <Dv0p34.73.0.bloor@torfree.net>
Organization: Toronto Free-Net
X-Newsreader: TIN [version 1.2 PL2]
References: <Pine.OSF.3.91.960716155603.6898A-100000@ermine.ox.ac.uk>
Date: Tue, 23 Jul 1996 22:28:15 GMT

Peter Harding (harding@ermine.ox.ac.uk) wrote:
: I was at speakers' corner on Sunday. There was one chap who was bellowing
: about something or other, I don't know what, but one thing he said to
: someone caught my ear:

: "BBC, MI5, same thing."

Can't disagree with that sentiment.

Wasn't it documented that MI5 sometimes "bought" journalists and broadcasters?
I remember reading a report by some jouralist who had been offered an extra
tax-free income by MI5 to become their covert mouthpiece, and had refused.

Bet you lots of others didn't refuse. Why do you think MI5 have such easy
access to the BBC and media? Because they're directly paying them off, that's why.

===

Tue, 23 Jul 1996 20:01:15 uk.misc Thread 20 of 25
Lines 17 Re: MI5 Buy into the Media No responses
Iain@cummings.demon.co.uk Iain Cummings at Fish!

In article <Dv0p34.73.0.bloor@torfree.net>, Mike Corley
<bu765@torfree.net> writes
>
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>tax-free income by MI5 to become their covert mouthpiece, and had refused.
>
>
It was Jon Snow of Channel 4.
--
Iain C*mmings - iain@cummings.demon.co.uk
VISIT THE FEARFUL WORLD OF JIMMY McNULTY - VIOLENT NUTTER!

This web-site is not suitable for mature prudes.
http://www.geocities.com/SunsetStrip/7433/

==

> : >mouthpiece, and had refused.
> :
> : It was Jon Snow of Channel 4.
>
> Was it reported in any of the papers?

It has been reported several times. The most recent was in Private Eye,
a few months back. As I recall they also wanted information from him;
journalists would be a natural choice for members of the Security Service
and the Secret Intelligence Service for information sources.

> It might be interesting to see what he had to say regarding their
> attempt to recruit him.

He was most concerned that many others would have accepted such an
offer. However, we can probably make an educated guess as to some of
those who accepted: Nigel West (Rupert Allason, MP) and Chapman Pincher
would come near to the top of the list.

--
\/ David Boothroyd. Socialist and election analyst. Omne ignotum pro magnifico.
British Elections and Politics at http://www.qmw.ac.uk/~laws/election/home.html
I wish I was in North Dakota. Next General Election must be before 22nd May '97
The House of Commons now : C 324, Lab 272, L Dem 25, UU 9, PC 4, SDLP 4, SNP 4,
UDUP 3, Ind 1, Ind UU 1, Spkrs 4. Government majority = 1. Telephone Tate 6125.

1673

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
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From 346237634605865198
X-Google-Thread: f573f,bde08a73688c2a9b,start
X-Google-Thread: 10b346,bde08a73688c2a9b,start
X-Google-Thread: 105ae5,bde08a73688c2a9b,start
X-Google-Thread: f5125,bde08a73688c2a9b,start
X-Google-Thread: fc2a5,bde08a73688c2a9b,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07072014160242@4ax.com>
Subject: MI5 Persecution: Latest technology 31/7/96 (2896)

Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 14:16:07 GMT
Lines: 50
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 46
Xref: g2news2.google.com alt.sex.masturbation:9447 alt.masturbation:288
hr.comp.amiga:283 tw.bbs.soc.media:242 rec.radio.amateur.homebrew:807

From: Jon <Jon@jongru.demon.co.uk>
Newsgroups: uk.misc,uk.legal,uk.politics.misc,alt.politics.british,uk.media
Subject: Surveillance
Date: Wed, 31 Jul 1996 23:20:19 +0100
Organization: -
Lines: 29
Distribution: world
Message-ID: <wIznBGAjw9$xEwTw@jongru.demon.co.uk>
References: <105319Z26071996@anon.penet.fi> <4tfo1f$rvc@morgana.netcom.net.uk>
NNTP-Posting-Host: jongru.demon.co.uk
X-NNTP-Posting-Host: jongru.demon.co.uk
MIME-Version: 1.0
X-Newsreader: Turnpike Version 1.12 <nQyLm4IxRmtU60uHtPa$08ppe9>

In article <4tfo1f$rvc@morgana.netcom.net.uk>, "B.Jury" <bj2@ukc.ac.uk>
writes
>an410901@anon.penet.fi wrote:
>> ... Normal surveillance
>>"mini-cameras" are quite noticeable and require visible supporting
>>circuitry. It seems to me the best place to put a small video surveillance
>>device would be additional to a piece of electronic equipment such as a TV
>>or video.
>
>I would imagine it is quite easy to compleatly hida a camera, even in
>a familar enviroment, such as a persons home. You only need a hole the
>size of a pin hole, for the camera to see through.

This is true. I frequently employ private detectives to spy on people (there's a good reason for this and I'll tell you if you guess correctly) and one such detective showed me the latest technology only last week. A small rucksack. One strap of the rucksack has a tiny hole in it that you wouldn't notice unless someone pointed to it. That's the camera: the wires lead into the rucksack itself where there is a video tape recorder little bigger than a Walkman. I don't know if that's what Roger Cook uses but it certainly explains why it is that the subject can look straight into the lens and not realise (s)he's being filmed. Now, I say "latest technology" and I think that's the technology that the police use as well as the retired police who become private detectives,

but no doubt the security services have far more sophisticated
equipment.

--
Jon

2896

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
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From 2271555114532986292
X-Google-Thread: f573f,3856444004936e5,start
X-Google-Thread: 10b346,3856444004936e5,start
X-Google-Thread: 105ae5,3856444004936e5,start
X-Google-Thread: f5125,3856444004936e5,start
X-Google-Thread: fc2a5,3856444004936e5,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07072014435205@4ax.com>
Subject: MI5 Persecution: Just too crazy 30/9/96 (4119)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 14:43:55 GMT
Lines: 72
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 68
Xref: g2news2.google.com alt.sex.masturbation:9453 alt.masturbation:289
hr.comp.amiga:284 tw.bbs.soc.media:243 rec.radio.amateur.homebrew:808

Subject: Re: Is MI5 persecuting Mike Corley?
Newsgroups: uk.politics.misc,uk.net,uk.misc,uk.legal
Followup-To: uk.politics.misc,uk.net,uk.misc,uk.legal
References: <NEWTNews.843523097.30215.apascoe@apascoe.patrol.i-way.co.uk>
<DyADyG.8IK$
Organization: Toronto Free-Net
Distribution:

wooding@cf.ac.uk wrote:
: In article <NEWTNews.843523097.30215.apascoe@apascoe.patrol.i-way.co.uk>

apascoe@pa$
: >   In summary, for there to be a serious possibility that Mike
: >Corley's allegations are true, there needs to be evidence of two
: >things. Firstly, there must be evidence of subversive activity on
: >his part. Secondly, there needs to be evidence of MI5 taking
: >measures to counter this subversive activity, in proportion to the
: >magnitude of the threat posed. Upon reading Mike Corley's posts,

: Alan,

: What about the following scenario? MI5 conducts "experiments" including
: field trials of novel surveillance methods. Say there was a "research
: project" underway to see just how invasive a surveillance of an
: individual could be. Perhaps it wasn't research, perhaps it was for
: training of novice personnel. Either way, there is a sizeable risk of
: detection. In order to minimise the consequences of this, you choose
: someone who is out of the public eye, and if possible someone whose
: credibility is already damaged - by diagnosis of schizophrenia, for example.
: This will facilitate the "plausible denial" if something goes wrong.

: I think this would be closer to Mike's theory.

: Mike, if you are reading, please don't post the story again. Anyone can
: read it at [snip] if they are interested. Also, don't
: think that I actually *believe* the above. On cost alone, it is extremely
: unlikely to be true, and some elements of the story (people in the media
: being "in on it") are just too crazy (though I can see how the paranoia
: builds to the extent that you can see "them" everywhere).

My argument is that the fact that it's so totally crazy is what makes it so plausible and so hard to prove.

I shall continue to try to find ways to kick down the house of cards. Because it is a brittle structure. It only needs one person to corroborate, and then it's all over.

: P.S. Anyone else ever thought of "what-ifs" along the same lines? I
: remember as a boy daydreaming that maybe I was the focus of national
: attention in a "let's follow the life of one person from life to
: death" study - that while I was out or in bed there were programmes on
: the television about my life so far, etc. It makes for a good fiction,

Perhaps MI5 have become victims of their own paranoia. Their agency has been thought of as acting disreputably, so when their decision arrives, they don't think twice about breaking the law. Whereas say CSIS (the Canadian equivalent) is at pains to point out how it would never ever do anything in contravention of the law, and how it is strictly controlled in what it does and how it does it.

If this matter does ever make it into the public gaze, then it won't just be a few individuals in the media or security service who'll get hit. The UK is supposed to be a civilized democratic country (East Germany called themselves a democracy and they had the Stasi, but anyway). In a civilized country these things shouldn't be happening - and it is ultimately Parliament and the

government who are answerable for not imposing sufficient restraints and
accountability on those who are supposed to be ensuring security for citizens,
not jeopardising it.
....

4119

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From -73221641719973302
X-Google-Thread: f573f,8eadb3497f2ffe6b,start
X-Google-Thread: 10b346,8eadb3497f2ffe6b,start
X-Google-Thread: 105ae5,8eadb3497f2ffe6b,start
X-Google-Thread: f5125,8eadb3497f2ffe6b,start
X-Google-Thread: fc2a5,8eadb3497f2ffe6b,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07072015092835@4ax.com>
Subject: MI5 Persecution: Usual targets of such abuse 10/10/96 (5342)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 15:09:33 GMT
Lines: 35
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 31
Xref: g2news2.google.com alt.sex.masturbation:9454 alt.masturbation:290
hr.comp.amiga:285 tw.bbs.soc.media:244 rec.radio.amateur.homebrew:809

Subject: Re: MI5 says "Kill Yourself"
Newsgroups: uk.misc,uk.legal,uk.politics.misc,uk.media
References: <zlsiida.4248.3258FE24@fs1.mcc.ac.uk> <53eeev$cmg@axalotl.demon.co.uk>
<5$
Organization: Toronto Free-Net
Distribution:

iain@hotch.demon.co.uk (Iain L M Hotchkies) wrote:
>Indeed. If you've ever had a 'conversation' with someone suffering
>from florid schizophrenia, you'll know how difficult it can be to
>'argue' with them.

I don't have florid symptoms. But I'm in a difficult situation, because those people who don't know, aren't going to believe, and those who do, they just go along with the crowd. It's never a good idea to go against the grain, and the grain here is defined by interests in the establishment and the media. Even people who could say out loud what was happening won't, because then there's a risk that they'll be seen as traitors and ostracised.

Usually this type of 'hidden abuse' is racial and targetted at a racial minority within a country. You keep the minorities out of the good jobs, but you don't admit discrimination exists. It happens everywhere, not just in Britain. The persecution that is going on now is in reality a refined form of racism. Instead of "nigger" it's "nutter", and abusing the mentally ill is still socially acceptable today. In 50 years it might not be, but today there isn't any social or legal sanction against it.

So really they've refined racial harassment down to a minority of one. The words may be different, but the methods are the same.

5342

--
Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From 8733411332317910472
X-Google-Thread: f573f,705e10c2b6815439,start
X-Google-Thread: 10b346,705e10c2b6815439,start
X-Google-Thread: 105ae5,705e10c2b6815439,start
X-Google-Thread: f5125,705e10c2b6815439,start
X-Google-Thread: fc2a5,705e10c2b6815439,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07072015295926@4ax.com>
Subject: MI5 Persecution: Excellent web page 19/10/96 (6565)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 15:30:03 GMT
Lines: 79
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 75

Xref: g2news2.google.com alt.sex.masturbation:9456 alt.masturbation:291
hr.comp.amiga:286 tw.bbs.soc.media:245 rec.radio.amateur.homebrew:810

From: Chris Lawton <chrisla@ti.com>
Subject: Re: MI5 persecution ;; Cost of the Harassment
Message-ID: <325A3DA6.3447@ti.com>
Date: Tue, 8 Oct 1996 11:40:22 GMT
Reply-To: chrisla@ti.com

DANIEL ROBERT HOLDSWORTH wrote:
>
> In article <3262b4fc.14638885@192.168.2.1>,
> stevea@castlsys.demon.co.uk.no.spam.thanx (Steve A) writes:
> :On 4 Oct 1996 13:19:16 +0100, drh92@aber.ac.uk (DANIEL ROBERT
> :HOLDSWORTH) wrote:
> :
> :>
> :> Oh NO!
> :>
> :> Not here too.
> :>
> :> This MI5 persecution thread's been doing the rounds of UK.MISC for ages;
> :> it concerns some paranoid loony who thinks that MI5 are out to get him.
> :>
> :> They're not; everyone else on that newsgroup IS.
> :>
> :> Killfile the moron NOW!
> :

Bit sad really, the guy (must be the same one) has an excellent web
page. Definite waste of talent.
PS: I am NOT disclosing his URL.

> The man's been changing his anon remailer address periodically, too.
>
> Why on earth he does I don't know; he's in serious danger of creating some
> real enemies, apart from the phantoms his sadly deranged mind has created.
>
....
......
From: nuala@mimir.com (Nuala Fahey)
Subject: Re: MI5 persecution // BBC TV and Radio
Date: 4 Oct 1996 16:03:24 +0100
Message-ID: <5338vs$hrc@freyja.mimir.com>

Simon Lord <simonl@hrmconsult.co.uk> wrote:

>I expect he will soon be seen in uk.out.to.lunch

Considering he spammed it far and wide (well, at least to alt.angst and
alt.folklore.urban which I saw and each of those included other groups
in the Newsgroups line) I doubt he'll be seen anywhere for long. Using

the xs4all remailer doesn't really help if you post the url to a
web site which makes it clear who you are.

Nuala, who thinks that the sad thing is he used frames much better
than many sites done by supposedly 'sane' people.
--
Out of the ash I rise/With my red hair/And I eat men like air - Plath
You were everything to me/For twenty minutes/
Now I'd rather you would leave - Baby Chaos
....
Date: Sat, 19 Oct 1996 01:36:26 +0100
From: mike.monty@zetnet.co.uk
To: bu765@torfree.net
Subject: Praise

Hi,
Totally excellent page. Although I am a little confused whi is being
percecuted?

Cheers Michael

mike.monty@zetnet.co.uk
....

6565

--
Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From 5970355635244548299
X-Google-Thread: f573f,f95c35e5314e7d57,start
X-Google-Thread: 10b346,f95c35e5314e7d57,start
X-Google-Thread: 105ae5,f95c35e5314e7d57,start
X-Google-Thread: f5125,f95c35e5314e7d57,start
X-Google-Thread: fc2a5,f95c35e5314e7d57,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07072015513006@4ax.com>
Subject: MI5 Persecution: WTGROMT 18/11/96 (7788)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama

```
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 15:51:33 GMT
Lines: 57
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 53
Xref: g2news2.google.com alt.sex.masturbation:9457 alt.masturbation:292
hr.comp.amiga:287 tw.bbs.soc.media:246 rec.radio.amateur.homebrew:811

Subject: Re: MIKE AND THE DOWNFALL OF UK.LEGAL
Newsgroups: uk.misc,uk.legal,uk.politics.misc,uk.media
Followup-To: uk.misc,uk.legal,uk.politics.misc,uk.media
References: <DytvBE.9J.0.bloor@torfree.net> <Dzt3oG.EE2.0.bloor@torfree.net>
<54q3pd$$
Organization: Toronto Free-Net
Distribution: world

J.J.Smith@ftel.co.uk (John J Smith) wrote:
>Actually, I see uk.misc as a source of occasional interesting information,
>and I like jokes. Some people can laugh, you see.
>
>And as for you spams, exactly how much good have they done so far?

Not much. I thought they might, but the realization has arrived that this
particular avenue of exploration is at a dead end.

WTGROMT (well that's got rid of me then!)
.......................................................................
Subject:      Re: MIKE AND THE DOWNFALL OF UK.LEGAL
From:         wooding@cf.ac.uk ()
Date:         1996/11/04
Message-Id:   <E0CFFH.1J9@cf.ac.uk>
X-Nntp-Posting-Host: thor.cf.ac.uk
Sender:       news@cf.ac.uk (Usenet News user)
References:   <DzuwML.F4o.0.bloor@torfree.net> <DzzBs1.n3v@ftel.co.uk>
<E05GoF.Ku.0.bloor@torfree.net>
Organization: University of Wales College at Cardiff
Newsgroups:   uk.misc,uk.legal,uk.politics.misc,uk.media


In article <E05GoF.Ku.0.bloor@torfree.net> bu765@torfree.net (Mike Corley) writes:
>J.J.Smith@ftel.co.uk (John J Smith) wrote:
>>Actually, I see uk.misc as a source of occasional interesting information,
>>and I like jokes. Some people can laugh, you see.
>>
>>And as for you spams, exactly how much good have they done so far?
>
>Not much. I thought they might, but the realization has arrived that this
>particular avenue of exploration is at a dead end.

Oh please let this be true and not just another wind-up!
```

>WTGROMT (well that's got rid of me then!)

Mike, without the spamming I'm sure you are welcome to stay around, being one of the colourful "characters" of uk.misc.

Have a custard cream.

Dave.

....

7788

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--
Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access
```

```
From -5762673228186251621
X-Google-Thread: f573f,4901ce8b12f8e674,start
X-Google-Thread: 10b346,4901ce8b12f8e674,start
X-Google-Thread: 105ae5,4901ce8b12f8e674,start
X-Google-Thread: f5125,4901ce8b12f8e674,start
X-Google-Thread: fc2a5,4901ce8b12f8e674,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07072016094381@4ax.com>
Subject: MI5 Persecution: No Justice 20/11/96 (9011)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 16:09:47 GMT
Lines: 76
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 72
Xref: g2news2.google.com alt.sex.masturbation:9460 alt.masturbation:293
hr.comp.amiga:288 tw.bbs.soc.media:247 rec.radio.amateur.homebrew:812
```

```
(sent 20/11/96)
Subject: No Justice for those with mental illness
Newsgroups: uk.misc,uk.legal
Organization: Toronto Free-Net
Summary:
Keywords:
```

Well, the "legal option" has just foundered on the rock of lawyers refusing to deal with me on the grounds that my perception of harassment must be due to the disease.

So we're back to square one again, the same place we were two years ago.

Now perhaps one of our uk.legal participants can clarify this point. To me it seems illogical that lawyers should have the final say on whether you are allowed to proceed with a civil case or not. Is there a default mechanism or agency for cases such as mine where it is difficult to find a solicitor to represent you? What exactly is the "official Solicitor"? What is it possible to do if you can't find a lawyer to represent you?

A chance to get a useful response out of the uk newsgroups! perhaps they can be good for something else besides spamming.

....

Represent yourself....like the defendants in the McLibel trial.
you will need to read some law..but you CAN legally represent yourself I believe.
Mike W.

....

From: burridge@osiris.win-uk.net (Paul Burridge)

Yes, a lot of people do this nowadays. Saves on legal fees too. Lots of reading up required first, though.

-- Paul

....

(posted 30/11/96 from bu765)

Subject: Re: No Justice for those with mental illness
Newsgroups: uk.misc,uk.legal
Followup-To: uk.misc,uk.legal
References: <E173G8.1oy.0.bloor@torfree.net> <5711vp$tfu@newton.cc.rl.ac.uk> <3311@os$
Organization: Toronto Free-Net
Distribution:

burridge@osiris.win-uk.net (Paul Burridge) wrote:

>>Represent yourself....like the defendants in the McLibel trial.
>>you will need to read some law..but you CAN legally represent yourself I
>>believe.
>>Mike W.
>
>Yes, a lot of people do this nowadays. Saves on legal fees too. Lots
>of reading up required first, though.

What can I do to get competent legal help though? If the case is on the face of it so bizarre that no solicitor would represent me or talk to me, then surely there must be a default mechanism? What is the "official Solicitor" that's been

mentioned?
....

All you need do is go to a good library & read up about it - that's what
the McLibel 2 did.

--
Ban Everything or Ban Nothing !
http://www.mahayana.demon.co.uk/ ISO 1386-C compliant .sig
All words written in the above posting are my opinions
....

9011

--
Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From 8215401324854128022
X-Google-Thread: f573f,9e9c9f96c34feccf,start
X-Google-Thread: 10b346,9e9c9f96c34feccf,start
X-Google-Thread: 105ae5,9e9c9f96c34feccf,start
X-Google-Thread: f5125,9e9c9f96c34feccf,start
X-Google-Thread: fc2a5,9e9c9f96c34feccf,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07072016304745@4ax.com>
Subject: MI5 Persecution: David Hepworth (1) 26/2/97 (10234)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 16:30:50 GMT
Lines: 147
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 143
Xref: g2news2.google.com alt.sex.masturbation:9465 alt.masturbation:294
hr.comp.amiga:289 tw.bbs.soc.media:248 rec.radio.amateur.homebrew:813

Subject: "Absolute Obscene" David Hepworth (GLR)
Newsgroups: uk.misc,uk.legal,alt.radio.uk,uk.media,uk.media.radio.misc
Organization: Toronto Free-Net
Summary:

Keywords:

Last night (21/Feb/97), I was listening to BBC GLR. You have to understand that I was listening by stealth. Back in 1990 I used to have Capital blaring out of the speakers all over the garden ("if he listens to Capital then he can't be all bad", thanks ever so much). But now I listen on my walkman on headphones with the volume turned right down. It could not possibly be overheard by any listening device, no matter how sensitive, because sound does not carry from the headphones.

Yet somehow they are still able to tell which station I am listening to on the walkman. And last night, I bravely tuned to GLR 94.9FM at around 8.45pm. Everything went well for the first half hour or so. The DJ (today GLR told me it was David Hepworth) had a "rock star spelling competition" (how do you spell Shakespear's Sister?), no trouble there. I was recording the show onto tape just in case anything unpleasant happened, as I had reason to think it might.

Around 9.10pm, it did. Here, precisely, is what Hepworth said after the song "Come Around" by the Muttonbirds (I have this on tape, and at some point will be posting the audio on my website);

"New album's called 'Envy of Angels', that comes out soon, that's the single that's already out, I would imagine, that's 'Come Around', the Muttonbirds, er, coming up after this, we got the rock-and-roll A-level, we have, I assume, Brian do we have an embarrassment of prizes in there, we do, don't we, (EMPHASIS) absolute obscene (END-EMPHASIS) amounts of prizes, there will no doubt be a riot at the back door", and that's, er, A-level coming up after this"

The key phrases in what he said are, "EMBARRASSMENT of prizes", and what he himself emphasized verbally, "ABSOLUTE OBSCENE amount of prizes". It is my belief (based on content and tone of voice) that when he spoke these phrases he knew I was listening, and that the phrases refer directly to my situation. The "EMBARRASSMENT" is the embarrassment he and other media people would feel at having their wrongdoing exposed; the "ABSOLUTE OBSCENE" (which he verbally emphasized) described the disgusting sexual abuse which the harassers have been throwing at me.

Needless to say, I can't prove this is what he meant, although this has happened enough times that it's hard not to recognise it when you see it. But I shall be sending him a copy of this explanation. We'll see what he has to say for himself.

....

Subject: Re: "Absolute Obscene" David Hepworth (GLR)
Newsgroups: uk.misc,uk.legal,alt.radio.uk,uk.media,uk.media.radio.misc
Followup-To: uk.misc,uk.legal,alt.radio.uk,uk.media,uk.media.radio.misc
References: <E60IAy.CL5.0.bloor@torfree.net> <330f2bac.2665181@nntp.best.com>
<331372$
Organization: Toronto Free-Net
Distribution:

Anthony@dircon.co.uk-antispam (Anthony) wrote:

>Greg W wrote:
>
>> On Sat, 22 Feb 1997 16:11:22 GMT, bu765@torfree.net (Mike Corley)
>> wrote:
>>
>> >Last night (21/Feb/97), I was listening to BBC GLR. You have to understand that
>> >I was listening by stealth. Back in 1990 I used to have Capital blaring out of

[snip]

>> huh?
>
>I can't understand it myself. Can anyone else help us ?

I will try to explain with greater clarity.

I am prone to have ideas of "interactive watching" by people on TV, and "interactive listening" by people on the radio; which means as I listen to their programme, they are aware that I am listening (because my home is spied on, and those doing the spying phone up the radio station and tell them that I am listening to them), and they then interject nasty remarks in what they say. This is what I believe may have happened on Friday night with GLR, and what I was trying to explain in my article.

It's happened before with other radio stations, most worryingly when I am listening quietly on my walkman as happened on Friday. This time, the interjected words were "embarrassment" and "absolute obscene". The "absolute obscene" referred to the abuse which is currently being directed at me.

I hope that's a little clearer.

....

From: simon@star-one.org.uk (Simon Gray)

Facility thusly:

~ huh?

Just because you need to read it twice in order to understand it, is that any reason to inflict it on the rest of us again ?

--
 '2% of people *do*, 98% of people wish they *had*' - David Fanshawe
http://www.mahayana.demon.co.uk/   Read Flatland !

....

Mike, try playing a cassette in your walkman. There is no way they can reach you then. HTH

--
Don Whybrow - Correct email address: don@whybrow.demon.co.uk

....

Mike Corley wrote:

> .... This time, the interjected words were "embarrassment" and "absolute obscene". The "absolute obscene" referred to the abuse which is currently being directed at me.

But it is possible that those two sets of interjected words could have validly referred to something else.

> I hope that's a little clearer.

Thank you, it is a bit clearer.

Posted in uk.legal by Anthony@dircon.co.uk
....
Simon Rushton <Simon@ppushers.demon.co.uk> wrote:

>Some people, new to this group, may not realise the Mike is our resident Paranoid Schizophrenic. This is not a joke, it is serious. He has already admitted stopping taking prescribed drugs for his condition.

Though I have to say I've never heard one as obscure as that, even from Mike. How he can believe a rubbish trail for a crap competition is directed at him is beyond me!
He's sent a copy of the post to the jock, too. I hope he doesn't read it out.

--
The John Shuttleworth Homepage:
It's just an Austin Ambassador of a site!
http://www.steviep.demon.co.uk/shuttle.htm
....

10234

--
Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

```
From -1803099372399633609
X-Google-Thread: f573f,e9e271da51ae1f7d,start
X-Google-Thread: 10b346,e9e271da51ae1f7d,start
X-Google-Thread: 105ae5,e9e271da51ae1f7d,start
X-Google-Thread: f5125,e9e271da51ae1f7d,start
X-Google-Thread: fc2a5,e9e271da51ae1f7d,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07072016562212@4ax.com>
```

Subject: MI5 Persecution: Striking out action 10/3/97 (11457)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 16:56:26 GMT
Lines: 206
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 202
Xref: g2news2.google.com alt.sex.masturbation:9469 alt.masturbation:295
hr.comp.amiga:290 tw.bbs.soc.media:249 rec.radio.amateur.homebrew:814

Subject: "Scandalous, Frivolous or Vexatious"
Newsgroups: uk.misc,uk.legal
Organization: Toronto Free-Net
Summary:
Keywords:

A couple of weeks ago I issued a summons against the BBC in my local county court, for the tort of private nuisance caused by the spying by their newsreaders on my home. My argument was that their spying had prevented me watching the news at home, and therefore interfered with my normal use of my home.

The BBC's Litigation Dept at White City have replied not with a defence, but with an application for my claim to be struck out because;

(a) it discloses no reasonable cause of action; and/or
(b) it is scandalous, frivolous or vexatious.

Their application will be heard next week. They have not made any affidavit in support of their application, nor have they given particulars as to why they consider my summons to be unarguable in law, which would be a necessary condition for there to be no reasonable cause of action.

I am more worried about point (b). Allegations are scandalous (says Stuart Sime's book) if they impute dishonesty against another party; which my allegations do, against the BBC's newsreaders. As for frivolous or vexatious, I think that will be up to me to make a good argument for the effect the BBC's spying has had on my life, and up to the district judge's opinion of my case.

Apparently seeking to have a claim struck out in this way is common practice when the plaintiff is a litigant-in-person. Even if it is struck out, there is always the opportunity to appeal. I think we could be in for a fight next week.
....
Sun, 02 Mar 1997 20:38:59 uk.legal Thread 52 of 54
Lines 13 Re: "Scandalous, Frivolous or Vexatious" Respno 1 of 1

```
Kate@carterce.demon.co.uk
KKKKatie

In article <NQoVQiAnHgGzEwl3@solicit.demon.co.uk>
           andy@solicit.demon.co.uk "Andrew Nichols" writes:

> Well, that'll liven up the dear old District Judge. Almost worth taking
> the day off to see how Mike fares.

almost worth taking a day off to see if he exists

Kate
--
Just back from the US - you've got to love a country that puts
          "Vertical Clearance Impeded" for "Low Bridge"
..........................................................................
Subject: Re: "Scandalous, Frivolous or Vexatious"
Newsgroups: uk.misc,uk.legal
References: <E6FEFJ.IE7.0.bloor@torfree.net>
<NQoVQiAnHgGzEwl3@solicit.demon.co.uk><8$
Organization: Toronto Free-Net
Distribution:

burridge@osiris.win-uk.net (Paul Burridge) wrote:
>Almost worthwhile taking the day off to go and punch him in the
>face for all abuse he's given us on these groups. Which court is it?

Thank you for your kind thought.

I'm not telling you which court it is. I don't want to be hounded by irate
uk-miscreants!

As for raising eyebrows, the member of staff who took the summons form didn't
change their facial expression at all. Seen it all before, no doubt.
..........................................................................
In article <857597450snz@adams.demon.co.uk>,
Derek Tidman <Derek@adams.demon.co.uk> wrote:
>In article <E6JAxt.EFK.0.bloor@torfree.net>
>           bu765@torfree.net "Mike Corley" writes:
>
>-I'm not telling you which court it is. I don't want to be hounded by irate
>-uk-miscreants!
>-
>-As for raising eyebrows, the member of staff who took the summons form didn't
>-change their facial expression at all. Seen it all before, no doubt.
>
>Take no notice Mike, some people are like that. I hope
>you finally get this matter into court.

I'm not so fond of the threats of violence against the persistent (yet
quiet for a bit, and probably soon to restart..) spammer that is Mike
Corley. Yet, encouraging the fantasies of the mentally ill isn't
exactly healthy either. Do you go up to homeless mad people as say
```

things like: "They're coming to get you", or "Look out behind you?".

Smid

....

Quite the contary Mike. Your recent posts have been no problem. By explaining things rationally, and not spamming us, you have made more friends than you know.

I hope that you sort out your problem, sincerely.

--

****

I'm Alan Packer and I move in a very mysterious way. If replying to me

....

In article <857686006snz@adams.demon.co.uk>,
Derek Tidman <Derek@adams.demon.co.uk> wrote:
>In article <5fmdc7$gga$1@ftel.ftel.co.uk>
>   J.J.Smith@ftel.co.uk "John J Smith" writes:
>
>I think it's good for Mike to vent his anger and frustration on
>these two newsgroups. Consider it to be part of your duty to
>the comunity in general.

Yep. Just not, the, I think 180 posts, one week, when his illness got really bad. Oh yeah, and there was only three real posts, just repeated 60 times.

>Mike does a first class job of drawing out the real personality
>of the person hiding behind a node name. The way people react
>to Mike gives it all away.

Erm, explain this rather dubious statement.

>As for you. Don't you think it's a trifle condescending to refer
>to people as mad. I know they are homeless and without internet
>access, but maybe they are just eccentric.

Congratulations. This is my first real flame for about a year.

I try to control my anger when I come across another uninformed naive idiot on usenet, but sometimes it goes free. We've had Corley for well over three years now, and his constant spams of various degrees have killed a couple of usenet groups I really rather lied. uk.media, to name but one. I gets my goat to read another useless fucker thinking he is a harmless eccentric.

Mike is mentally ill. He is unwilling to deal with it. He seems to think that uk.misc is some sort of forum that MI5 reads. And it should be avenged. He's mailbombed a large quantity of people, because they opposed his spamming.

1. He thinks MI5 watches him through his television
2. He thinks all references to mad people, refer to him
3. He thinks all people shouting, are shouting at him.

4. He's been diagnosed as mentally ill, just not a paranoid schizophrenic.
5. He gives not a shit about any newsgroups he abuses.
6. He goes through quiet periods, then _very_ nasty periods.
7. All evidence of this great conspiracy is laughable, to say the least.
8. He gives internet/usenet a bad name to the media. Including mailbombing Chris Tarrant and faxing various celebrities.

I do not condescend to him. I actually know what he does, and has done in the past, and am frankly not too respectful of him. He can be openly referred to as "mad" because he is. Let's check my mailbox saves:

Repost of when I thought I'd seen the last of loopy mike:

>>J.J.Smith@ftel.co.uk (John J Smith) wrote:
>>Actually, I see uk.misc as a source of occasional interesting information,
>>and I like jokes. Some people can laugh, you see.
>>
>>And as for you spams, exactly how much good have they done so far?
>
>Not much. I thought they might, but the realization has arrived that this
>particular avenue of exploration is at a dead end.
>
>WTGROMT (well that's got rid of me then!)

Have you actually visited his web page, and read the massive conspiracy that is supposed to be against him? Apparently MI5 watch him, but for no reason. They do it for a laugh. Because they can. It costs them a lot of money, but they still do it. Reality is but a memory for this man.

>Anyway I understood the UKMTC members upset Mike Corely , but
>I could be wrong.

Heaven forbid.

Smid

....

From: burridge@osiris.win-uk.net (Paul Burridge)

In article <33207CAA.1097@sos.bangor.ac.yuk>, David Roberts (oss108@sos.bangor.ac.yuk) writes:
>Derek Tidman wrote:
>
>> Anyway I understood the UKMTC members upset Mike Corely , but
>> I could be wrong.
>
>There was a pitched battle between MC and "the artist formerly
>known as Big Ears" but that was before the UMTC by which time
>MC had seen the light and stopped spamming.

He hadn't seen the light at all. His level of spamming had got to such outrageous proportions that we had to mount a concerted

attempt to get his account(s) closed. The reason for the lack of spam lately is that Mike has been furiously swotting up on Law so he can bring an action as a LIP against the BBC (all solicitors having quite rightly and honourably declined to act for him). When this course of action is exhausted without result, I confidently predict that we will once again be the innocent victims of his ire and the spamming will commence again.
....

11457

--
Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From -3792826357691272094
X-Google-Thread: f573f,146c0452eb7d9eb9,start
X-Google-Thread: 10b346,146c0452eb7d9eb9,start
X-Google-Thread: 105ae5,146c0452eb7d9eb9,start
X-Google-Thread: f5125,146c0452eb7d9eb9,start
X-Google-Thread: fc2a5,146c0452eb7d9eb9,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07072017271003@4ax.com>
Subject: MI5 Persecution: I am being ignored 17/4/97 (12680)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 17:27:14 GMT
Lines: 277
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 273
Xref: g2news2.google.com alt.sex.masturbation:9473 alt.masturbation:296 hr.comp.amiga:291 tw.bbs.soc.media:250 rec.radio.amateur.homebrew:815

Subject: I am being ignored
Newsgroups: uk.misc,uk.legal
Organization: Toronto Free-Net
Summary:
Keywords:

Something mildly unusual is happening. Nobody has been getting at me for the last couple of weeks. Best of all, about three weeks ago I bought a video recorder to try to get some evidence from the News etc, and despite having watched Martyn Lewis, Michael Buerk and the whole lot of them, not one of them has said anything to me in the last three weeks. And I have been listening to and recording Capital, with no ill effect. All in all, I am being comprehensively ignored.

Of course, I should have video-taped the news programmes back in 1990/91/92 (and even 93) when it was still all going on. Anthony Johnsson (casually name-drop to stick the knife in) will tell you how intelligent a person I am, yet I didn't have the good sense to record the programmes at the time, and it's a bit late now.

Today another avenue of exploration closed when my second summons against the BBC was struck out (basically through lack of evidence), and an order was made by the district judge saying that I could not sue John Birt again without the express permission of the court. She explained that this was for my own good, to save me the summons fees. Costs were not awarded though (the BBC didn't even really seek costs), and I am free to sue anyone else I take a shine to.

....

It is not that you are being ignored.... it is just that as your mental health improves, so your paranoia eases.

OR...

The dark forces are gathering strength for the final battle with you...

Seriously though, it's nice to see you back - cos as long as they are persecuting you, I can relax knowing they haven't got time to bother me!

Harry
--
Harry Adams
harry@smcat.com
http://www.smcat.com

....

From: burridge@osiris.win-uk.net (Paul Burridge)

Great news! Keep taking the tablets.

....

(posted 11/apr/1997, re Neil Long at 8.35pm Capital Radio)

Subject: Re: I am being ignored
Newsgroups: uk.misc,uk.legal
Followup-To: uk.misc,uk.legal
References: <E8HKJw.LIK.0.bloor@torfree.net>
Organization: Toronto Free-Net
Distribution:

Mike Corley (bu765@torfree.net) wrote:

[unreasonable optimism snipped]

Well, that didn't last very long, did it?

Capital Radio this evening approx 8.35pm, Neil Long's programme a few moments after I switched to it (I am listening to it as I type this). The following spouted from his mouth;

"want to see Jacko in town? what a gig it's going to be, that guy is amazing, and PSYCHOTIC, but amazing on stage, 0171-4200958, on stage he's a MADMAN but he's wonderful"

God, I am so tired of this. It's been going on for seven years. When's it going to stop?

I have the above extract on tape. When I get around to it I will post it, and the Hepworth snippet, as audio files on the website. Of course, all the doubting Thomases and Smids can carry on doubting, because the mere fact that moments after switching on the DJ starts talking about "psychotic", that's not proof is it?

I wrote an aggrieved letter to Chris Tarrant at Capital and sent it off today, copied to Richard Park, Group Director of Programmes. I suppose they'll just lie as usual. Bastards, basically.
....
The solution is surely to not have a TV, video, radio or telephone in the house, Mike. That way they can't be used to watch you.

Dave
--
dave@ llondel.demon.co.uk
Any advice above is worth what I paid for it.
....
Subject: Re: I am being ignored
Newsgroups: uk.misc,uk.legal
References: <E8HKJw.LIK.0.bloor@torfree.net> <E8HpM1.608.0.bloor@torfree.net> <860893$
Organization: Toronto Free-Net
Distribution:

"Dave {Reply address in.sig}" <noone@llondel.demon.co.uk> wrote:
>The solution is surely to not have a TV, video, radio or telephone in
>the house, Mike. That way they can't be used to watch you.

No. I tried that strategy in 1990/91 when I sold my television and stopped listening to the radio. It didn't work because they got at me through co-workers and eventually the general public.

The solution is to gather evidence by recording everything, and then complain or sue if possible. I wish I'd recorded it all five or six years ago, then I might be more successful in a legal action now.
....
Did anyone else watch the X-Files on Sky last night (Sunday 13th April) and

recognise Mike's symptons in the chap with the tattoo? It was quite interesting to see someone responding in precisely the same way, picking up on individual words and phrases in ordinary sentences and applying parts to themselves as though they were intended.

Not a pleasant ending though. You take care, Mike, and keep taking the medication. uk.misc just wouldn't be the same without you now.

Claire
--
```
******************************************************************************
* Claire Speed      [ENTX]  * Network & Operations Unit, Manchester Computing   *
* Dial-up, ISDN, TICTAC  * C.Speed@mcc.ac.uk   http://www.mcc.ac.uk/Claire/  *
******************************************************************************
```
....

>moments after switching on the DJ starts talking about "psychotic", that's not
>proof is it?

No, it isn't, but you knew that anyway.

Mike, how is it that you think that this can't be a coincidence because it happened 'moments' after you switched on the radio? Haven't you just told us that you haven't heard a thing for two weeks? Going two weeks watching TV & listening to the radio without a reference to 'mad', 'crazy' or 'loony' is quite an acheivement, especially given the trashy radio you seem to prefer.

I've just spent a lot of the weekend trying to keep a manic depressive under control, so that she doesn't have to go back into hospital and lose the last few months' memories to ECT. One thing I've noticed is that manic depressives almost seek to foster their fantasies, they enjoy the control and the high. You seem to be the same - you refuse to answer the points put to you that explain away what you call persecution totally - do you have the courage of your convictions to reply to this? Or do you enjoy the attention your illness brings you?

--
```
Illtud Daniel                                    idaniel@jesus.ox.ac.uk
-see Twin Town-                                          -Buy Apollo 440-
```
....

Mike Corley wrote:

> Something mildly unusual is happening. Nobody has been getting at me for the
> last couple of weeks.

Do please tell the *truth*. It has been longer than *2* weeks as I'm sure you have noticed, hasn't it ?

Well I claim responsibility for the absence of persecution. When I rang John Major's personal private secretary, not the personal political one or any of the others in the same office, and I said you would vote for the

Conservative Party at the General Election the secretary said Johnny would be so happy and as a sign of gratitude he rang-up the Head of MI5 and told them to save money for tax cuts by abandoning forthwith their campaign against you. Consequently MI5 and MI6 have been able to redeploy urgently needed resources (i.e. manpower and telecoms interceptions) against an international band of (*****censored*****).

On behalf of the law-abiding and decent citizens in the British islands, I would like to sincerely thank you for your invaluable contribution to crime fighting by your instrumental achievement in releasing badly needed and very scarce MI5 and MI6 resources.

Many thanks,

> Best of all, about three weeks ago I bought a video recorder to try to get some evidence from the News etc, and despite having watched Martyn Lewis, Michael Buerk and the whole lot of them, not one of them has said anything to me in the last three weeks. And I have been listening to and recording Capital, with no ill effect. All in all, I am being comprehensively ignored.

Please don't forget it is National Election time and the news broadcasts at 21:00 on BBC1 are preoccupied with British politics.

> Of course, I should have video-taped the news programmes back in 1990/91/92 (and even 93) when it was still all going on.

Any particular date in mind ? I have a few in the library. You can also purchase copies from the BBC on 0181-743 8000 (central switchboard).

> Anthony Johnsson (casually name-drop to stick the knife in) will tell you how intelligent a person I am, yet I didn't have the good sense to record the programmes at the time, and it's a bit late now.

Perhaps it is for the best. Now that it is all over, you can return to Canada. Did you manage to get your Canadian citizenship ?   What did your contracts at MI5 say about you becoming Canadian ?   You never did mention the name of your MI5 liaison officer nor of any of the others.

> Today another avenue of exploration closed when my second summons against the BBC was struck out (basically through lack of evidence), and an order was made by the district judge saying that I could not sue John Birt again without the express permission of the court. She explained that this was for my own good, to save me the summons fees. Costs were not awarded though (the BBC didn't even really seek costs), and I am free to sue anyone else I take a shine to.

That's true. But as it is now all over there is no need to worry about the past. MI5 said your file has been removed from the Registry and put in a burn-bag so there is nothing left for anyone ever to find.

By the way, what was the URL of your famous Corley web site ?

....
Subject: Re: I am being ignored
Newsgroups: uk.misc,uk.legal
Followup-To: uk.misc,uk.legal
References: <E8HKJw.LIK.0.bloor@torfree.net> <E8HpM1.608.0.bloor@torfree.net> <5it60e$
Organization: Toronto Free-Net
Distribution:

Illtud Daniel (idaniel@jesus.ox.ac.uk) wrote:
: Iain L M Hotchkies <iain@hotch.demon.co.uk.spam-free.zone> wrote:
: >Illtud Daniel typed:
: >
: >> You seem to be the same - you refuse
: >> to answer the points put to you that explain away what you call persecution
: >> totally - do you have the courage of your convictions to reply to this?
: >> Or do you enjoy the attention your illness brings you?

I have to admit that it is actually mildly amusing to have newsreaders watching you, although it is tiresome after a bit. I am currently in an interesting situation, because after my lawsuits against them I think the BBC newscasters have stopped watching me entirely; I also think that ITN, in particular John Suchet, *are* still watching but they're being subtle about it (his blink pattern followed mine).

Being called nasty words is quite horrible though, and seems gratuitous; what do they gain by it, except to exercise their sadism?

: >I think we all ought to remember that schizophrenia is a
: >psychosis, and as such, unless you are American and believe
: >that *anything* can be dealt with through counselling and/or
: >psychotherapy, will not respond to this type of treatment.

: Tell me about it. My friend is now unhappily resident in Warneford
: mental health unit, or whatever they call psychiatric hospitals nowardays.

I've never been in a hospital as an in-patient, ever. I think I've been very lucky in that regard.

: Having said that, one should seek to disabuse even psychotics of their
: delusions.

The medicines haven't made any difference to my ideas. They obviously make a difference in the emotional impact and reaction.
....
>I've never been in a hospital as an in-patient, ever. I think I've been very
>lucky in that regard.

You have. They're not pleasant atmospheres, especially the secure wings, which have more in common with prisons ('airlock' doors, list of 'banned' articles, continuous observation). They have to be that way, unfortunately.

--

Illtud Daniel   idaniel@jesus.ox.ac.uk
-see Town Town-   -Buy Apollo 440-
....

12680

--
Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From 1681230700121359130
X-Google-Thread: fc2a5,c886b9835d9da72a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.194.251.MISMATCH!news-out.readnews.com!transit4.readnews.com!
128.135.12.170.MISMATCH!news.uchicago.edu!nntp-server.caltech.edu!
dhcp-40-191.caltech.edu!user
From: dunnt@its.caltech.edu (Tom)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Mixer Data?
Date: Mon, 20 Aug 2007 10:31:33 -0700
Organization: None
Lines: 13
Message-ID: <dunnt-2008071031330001@dhcp-40-191.caltech.edu>
References: <f6SdnfaapedaBFrbnZ2dnUVZ_vihnZ2d@comcast.com>
NNTP-Posting-Host: dhcp-40-191.caltech.edu
X-Trace: naig.caltech.edu 1187631092 27390 131.215.40.191 (20 Aug 2007 17:31:32
GMT)
X-Complaints-To: abuse@caltech.edu
NNTP-Posting-Date: Mon, 20 Aug 2007 17:31:32 +0000 (UTC)
User-Agent: NewsWatcher-X 2.2.3b2
Xref: g2news2.google.com rec.radio.amateur.homebrew:816

In article <f6SdnfaapedaBFrbnZ2dnUVZ_vihnZ2d@comcast.com>, "Leland C.
Scott" <kc8ldo@arrl.net> wrote:

> I have a WJ M14 mixer with sma connectors on all three ports. Does anybody
> ant data on this mixer? A search on the Internet didn't turn up anything and
> I get no response from the company even after using a professional for pay
> search service contacted them.

The WJ M14 is marked L for LO and has spec of 4-9 GHZ, RF for RF spec is
4-8 GHz, and I for IF spec is DC-2GHz. Isolation between ports is 30db
typical, loss is 5-6 db, and noise figure is 5-7 db. Is that enough info?
Data from 1989 Watkins Johnson catalog.   Tom Wb6iqd

From -2915292057476336653
X-Google-Thread: fc2a5,80f4208f4b78bfea
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k79g2000hse.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I0CG new AD9912 1GHz DDS
Date: Mon, 20 Aug 2007 10:43:12 -0700
Organization: http://groups.google.com
Lines: 24
Message-ID: <1187631792.449806.17550@k79g2000hse.googlegroups.com>
References: <1186318543.573793.122530@q75g2000hsh.googlegroups.com>
   <nGExi.2617$pu2.722@bignews1.bellsouth.net>
   <1187522394.068931.303130@r29g2000hsg.googlegroups.com>
   <on2yi.17736$Lu.10187@bignews8.bellsouth.net>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1187631792 27788 127.0.0.1 (20 Aug 2007 17:43:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 20 Aug 2007 17:43:12 +0000 (UTC)
In-Reply-To: <on2yi.17736$Lu.10187@bignews8.bellsouth.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k79g2000hse.googlegroups.com; posting-host=170.121.15.35;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:817

On Aug 19, 5:12 pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
> Gian, I7SWX wrote:
> >> Now we have to find a low phase clock generator around 1.0 to 1.3 GHz.
>
> > 73
>
> > Gian
> > I7SWX
>
> Rots a Ruck!
> From the early specs looked like the chip has a built in PLL to
> generate the clock from a lower frequency source. Phase noise might not
> be as good though.

For applications sensitive to phase noise, the built in PLL's are not
a help but a pretty severe hindrance. 27 dB of hindrance in particular
for the chips I'm familiar with (AD9954 family) for phase noise 1kHz
out.

That doesn't mean that the DDS's (using refclock PLL or not) aren't
still damn useful for all sorts of stuff!

Tim.

From -4042528870815537991
X-Google-Thread: f573f,1f8da7de225a7ebe,start
X-Google-Thread: 10b346,1f8da7de225a7ebe,start
X-Google-Thread: 105ae5,1f8da7de225a7ebe,start
X-Google-Thread: f5125,1f8da7de225a7ebe,start
X-Google-Thread: fc2a5,1f8da7de225a7ebe,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07072018030161@4ax.com>
Subject: MI5 Persecution: Peak Practice 26/4/97 (13903)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 18:03:05 GMT
Lines: 85
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 81
Xref: g2news2.google.com alt.sex.masturbation:9474 alt.masturbation:298
hr.comp.amiga:293 tw.bbs.soc.media:251 rec.radio.amateur.homebrew:818

Subject: "Peak Practice" 1/4/97 wanted
Newsgroups: uk.misc,rec.arts.tv.uk.misc
Organization: Toronto Free-Net
Summary:
Keywords:

I am looking for a recording of "Peak Practice" from yesterday 1.April on VHS
tape. Willing to pay a reasonable sum for a recording.
....
Mike Corley <bu765@torfree.net> wrote:

>I am looking for a recording of "Peak Practice" from yesterday 1.April on VHS
>tape. Willing to pay a reasonable sum for a recording.

Uh-oh. Peak Practice slagging you off as well now, eh Mike?

--
Illtud Daniel idaniel@jesus.ox.ac.uk
-see Twin Town- -Buy Apollo 440-

....
Subject: Re: "Peak Practice" 1/4/97 wanted
Newsgroups: uk.misc,rec.arts.tv.uk.misc
Followup-To: uk.misc,rec.arts.tv.uk.misc
References: <E80u0B.8qD.0.bloor@torfree.net> <5i0onj$c9n@news.ox.ac.uk>
Organization: Toronto Free-Net
Distribution:

>Uh-oh. Peak Practice slagging you off as well now, eh Mike?

You better believe it. Tuesday's episode had one of its characters being labelled as a "lunatic" with "something wrong with them". I changed channels rapidly at this point, but in retrospect perhaps I should have carried on watching and taped the program.

A few days ago I bought a video recorder (about time too) for evidence gathering purposes. But strangely the TV news (both BBC and ITN) haven't uttered a sound over the last few days. Almost as if they know they're being taped...
....
Mike Corley <bu765@torfree.net> wrote:
>>Uh-oh. Peak Practice slagging you off as well now, eh Mike?
>
>You better believe it. Tuesday's episode had one of its characters being
>labelled as a "lunatic" with "something wrong with them".

And?

There are many characters in TV programmes who _are_ lunatics with 'something wrong with them'. Why do you think this alludes to you?

In the eponymous book, Cervantes' Don Quixote is described as 'crazy' 'mad' and 'lunatic'. Do you think this is a reference to yourself, albeit written by a time-travelling 17th century Spaniard?

If you accept that the character of Don Quixote can be described thus without it being a reference to you, what problem do you have with Peak Practice? Or do you enjoy tilting at your own little windmills?

A friend's lodger has turned out to be paranoid schizophrenic. Her obsessions are strikingly similar to yours, she is convinced that she is being bugged, and that students at her college are making fun of her for being foreign. She has been looking for the services of a private detective. Maybe Oxford has this unfortunate effect on foreigners?

I must say that I'm surviving rather well, or that's what the man under the stairs told me yesterday.

--
Illtud Daniel   idaniel@jesus.ox.ac.uk
-see Twin Town-   -Buy Apollo 440-
....
So Mike, you are a woman, married to a doctor,have two children, speak

spanish, and living in the Peak District. Is that a fair description of you?

BAZZA
....

13903

--
Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From 6676399654719989272
X-Google-Thread: f573f,56e6317729290c58,start
X-Google-Thread: 10b346,56e6317729290c58,start
X-Google-Thread: 105ae5,56e6317729290c58,start
X-Google-Thread: f5125,56e6317729290c58,start
X-Google-Thread: fc2a5,56e6317729290c58,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07072018241641@4ax.com>
Subject: MI5 Persecution: Continuing Silence 9/5/97 (15126)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 18:24:20 GMT
Lines: 64
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 60
Xref: g2news2.google.com alt.sex.masturbation:9484 alt.masturbation:299 hr.comp.amiga:294 tw.bbs.soc.media:252 rec.radio.amateur.homebrew:819

Subject: The Continuing Silence
Newsgroups: uk.misc
Organization: Toronto Free-Net
Summary:
Keywords:

The silence continues. I am enjoying listening to Radio 4 without any ill effects whatsoever. Admittedly I am recording every moment, but still. Even better, I have fished out a recording from ITN last year which at the time I was convinced had been about me, and on re-seeing it I am now convinced it is not about me at all.

But that is not to disclaim all the many "live incidents" that have happened. Everything written on my website is true. For the newcomers, its URL (as seen in the Observer and Private Eye) is

[snip]
....
Mike Corley wrote:
>
> The silence continues. I am enjoying listening to Radio 4 without any ill
> effects whatsoever.

Already the New Labour govt improves the quality of life of the populace!

--
To reply by email you must delete the trailing x from the To: field
Why not drop by my web page sometime? http://www.man.ac.uk/~zlsiida
Manchester's cheapest poker game still needs more players - drop me
a line if interested, or if you know another game that I might like.
....
From: David Roberts <oss108@sos.bangor.ac.yuk>

Mike, you're a ray of sunshine on a cold and miserable day.
Long may the silence continue.

David
--
***************================****************
Right that's enough junk mail.
If you really want to e-mail me,
remove the y from my address
....
>better, I have fished out a recording from ITN last year which at the time I
>was convinced had been about me, and on re-seeing it I am now convinced it is
>not about me at all.

You've cheered me up with this news, Mike. Seriously. The last sentence suggests that your health is improving, and you are beginning to become pragmatic, in some way...

Take a deep breath, and look to the future. I wish you well.

Smid
....

15126

--
Posted via NewsDemon.com - Premium Uncensored Newsgroup Service

------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

```
From -3055236951329612696
X-Google-Thread: f573f,5217d2d5d875573f,start
X-Google-Thread: 10b346,5217d2d5d875573f,start
X-Google-Thread: 105ae5,5217d2d5d875573f,start
X-Google-Thread: f5125,5217d2d5d875573f,start
X-Google-Thread: fc2a5,5217d2d5d875573f,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07072018470027@4ax.com>
Subject: MI5 Persecution: Victor Lewis-Smith 9/5/97 (16349)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 18:47:03 GMT
Lines: 80
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 76
Xref: g2news2.google.com alt.sex.masturbation:9491 alt.masturbation:300
hr.comp.amiga:295 tw.bbs.soc.media:253 rec.radio.amateur.homebrew:820
```

Victor Lewis-Smith has broken the silence in his TV review column "Goon and best forgotten" in the Evening Standard (on Thursday 8/May). He said, "If I sound paranoid, that's probably because I once worked there. Eventually, I had to leave because they were all trying to kill me but, for sheer pathological hatred of the Corporation, I couldn't hold a candle to Spike Milligan".

I take this to be about me, because recently I wrote to both the BBC and Capital Radio, saying "I believe the current purpose of the harassment is to force me to kill myself to prevent the harassers, yourselves included, from being brought to justice, and last year there were several incidents of people shouting 'suicide' at me, which would appear to corroborate that view." I think VLS's words about the BBC "all trying to kill me" shows he has seen or heard of what I sent to the BBC or Capital.

Nasty eh? I believe that VLS or his mates read this newsgroup. I wonder how he would explain his article?

....

Date: Fri, 9 May 1997 23:11:40 +0000 (GMT)
From: Webmaster for Victor <vls@bbcradio.demon.co.uk>
To: Mike Corley <bu765@freenet.toronto.on.ca>
Subject: Re: paranoia

Dear Mike,

Victor's not writing about you.

Yours,

John Hayward-Warburton
Victor's Webmaster
....
For some reason, I don't quite believe you. It's just too close a match.
....
In article <E9xG0x.Gtr.0.bloor@torfree.net>,
Mike Corley <bu765@torfree.net> wrote:
>Victor Lewis-Smith has broken the silence in his TV review column "Goon and
>best forgotten" in the Evening Standard (on Thursday 8/May). He said, "If I
>sound paranoid, that's probably because I once worked there. Eventually, I had
>to leave because they were all trying to kill me but, for sheer pathological
>hatred of the Corporation, I couldn't hold a candle to Spike Milligan".

Erm, Mike, I'm a bit of a fan of Victor Lewis-Smith, ever since his days of "BuyGones". I must admit, he often likes to play the flawed lunatic evil nasty person. He's been doing it for years, with prank calls, far before your illness. Its his act. He wouldn't be VLS without it.

He doesn't like the "Goons" either. It isn't about you.

>I take this to be about me, because recently I wrote to both the BBC and
>Capital Radio, saying "I believe the current purpose of the harassment is to
>force me to kill myself to prevent the harassers, yourselves included, from
>being brought to justice, and last year there were several incidents of people
>shouting 'suicide' at me, which would appear to corroborate that view." I think
>VLS's words about the BBC "all trying to kill me" shows he has seen or heard of
>what I sent to the BBC or Capital.

I don't think Victor Lewis-Smith has worked for the BBC (or Capital) for several years (1994 was the last time...), so the connection, is paranoia here.

Personally, I believe VLS as a person of reasonable integrity, who wouldn't give a fuck about you...

>Nasty eh? I believe that VLS or his mates read this newsgroup. I wonder how he
>would explain his article?

Keep up the medication, not as many people read this newsgroup as you think, even though you are now incorporating that into your illness.

Victor? Are you there?

Smid
....

16349

--
Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From 905794053406263583
X-Google-Thread: f573f,a83c03702efb8fff,start
X-Google-Thread: 10b346,a83c03702efb8fff,start
X-Google-Thread: 105ae5,a83c03702efb8fff,start
X-Google-Thread: f5125,a83c03702efb8fff,start
X-Google-Thread: fc2a5,a83c03702efb8fff,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07072019121441@4ax.com>
Subject: MI5 Persecution: David Hepworth (2) 16/5/97 (17572)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 19:12:17 GMT
Lines: 103
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 99
Xref: g2news2.google.com alt.sex.masturbation:9496 alt.masturbation:301
hr.comp.amiga:296 tw.bbs.soc.media:254 rec.radio.amateur.homebrew:821

Subject: David Hepworth (GLR) is taking the piss
Newsgroups: uk.misc
Organization: Toronto Free-Net
Summary:
Keywords:

>Last night (21/Feb/97), I was listening to BBC GLR. You have to understand that
>I was listening by stealth. Back in 1990 I used to have Capital blaring out of

Not much changes. Today I was listening again to David Hepworth's show on GLR, having more or less waded in on it by accident. Here is the exchange;

David: "we have executive drivetime, we have Brian in charge of the prize cupboard. Brian it's not a bad prize cupboard this week is it?"

Brian: "no David it's an absolute (EMPHASIS) embarrassment (END-EMPHASIS) of prizes this evening" (laughter)

David: "what have we got?"

Brian: "well in my left hand alone we've got that .... Gary Clale, I don't know if you remember him obviously still alive and kicking...."

David: "Rock and roll spelling test is your first opportunity to take advantage of this embarrassment of prizes"

What do I read into this exchange? The laughter after the word "embarrassment" shows they're aware of the last complaint I made on usenet (copied by snail-mail to them). The "left hand" business is I think a coded way of calling me a w***er (the term would be better applied to Brian and David).

I have a tape of this exchange, and will eventually get around to posting it on the website.

....

Subject: Re: David Hepworth (GLR) is taking the piss
Newsgroups: uk.misc
References: <E9xMvw.4H2.0.bloor@torfree.net>
Organization: Toronto Free-Net
Distribution: uk

I don't understand. Why has nobody replied to this post? You keep on asking for evidence, then I present you with something that looks very much like evidence, and everybody just ignores it. OK I haven't posted the actual sound extract, and it still isn't proof.

Perhaps everybody just finds it all too boring and dull. Should I start spamming again from one of those nice anonymous remailers to wake everyone up? Now there's a thought.

....

Mike Corley <bu765@torfree.net> wrote:
>I don't understand. Why has nobody replied to this post?

Cos you don't reply to our points - you're ignoring us, why shouldn't we ignore you?

>You keep on asking for evidence, then I present you with something
>that looks very much like evidence,

No you don't, you post something which could _never_, _ever_ be construed as referring to yourself. Can't you see it? No, of course you can't, you've an illness.

>Perhaps everybody just finds it all too boring and dull. Should I start
>spamming again from one of those nice anonymous remailers to wake everyone up?
>Now there's a thought.

And I see you've started. Give it a rest, Mike, unless you're prepared to enter into proper discussion.

```
--
Illtud Daniel                                       idaniel@jesus.ox.ac.uk
-see Twin Town-                                             -Buy Apollo 440-
.........................................................................
>Mike Corley <bu765@torfree.net> wrote:
>>I don't understand. Why has nobody replied to this post?

Never read it. Repost?

     Smid
.........................................................................
In article <5lhg3i$ete@news.ox.ac.uk>,
Illtud Daniel <idaniel@jesus.ox.ac.uk> wrote:
>[reposted]
>
>>Brian: "no David it's an absolute (EMPHASIS) embarrassment (END-EMPHASIS) of
>>prizes this evening" (laughter)

Uh-Uh. He's on for a bad attack, if he's singling out words which are
apparently attacking him. He previously restricted himself to just
dialog about the mentally ill.

TAKE YOUR MEDICATION MIKE.

     Smid
.........................................................................

17572


--
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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

```
From 4516110170760618724
X-Google-Thread: fc2a5,a04d585a393bb43a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.karotte.org!
news2.arglkargh.de!feeder.erje.net!aioe.org!fmmck
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 1500w Mobile
Date: Mon, 20 Aug 2007 15:18:32 -0400
Organization: Aioe.org NNTP Server
Lines: 25
Message-ID: <fmmck-0580FC.15183220082007@nntp.aioe.org>
References: <1187616592.438900.108130@w3g2000hsg.googlegroups.com>
NNTP-Posting-Host: tDsouI0bcr2HYkB1I5pYbw.user.aioe.org
```

X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.2 (Intel Mac OS X)
Xref: g2news2.google.com rec.radio.amateur.homebrew:822

In article <1187616592.438900.108130@w3g2000hsg.googlegroups.com>,
sales@transmittersrus.com wrote:

> Wanting to move up from my current Metron mobile amp what thoughts on
> basic layout of a 14v DC powered amp that could run the full legal
> limit?

Phil-

I'd say you would be better off with a portable generator riding along to provide power to a 120 or 240 VAC amplifier. This would be easy if you had a mobile home, since it may have the generator already.

For 1000 Watts DC, you would draw 71 Amps. Throw in an efficiency factor and you might be up to 100 Amps. By going with the AC generator, your current is more manageable with around 12 Amps at 120 VAC or 6 Amps at 240 VAC.

Check out the Honda EU2000i generator, which is capable of supplying a continuous 1600 watts at 120 VAC. It would be neat if you could mount it outside and feed it from your vehicle gas tank. (It is also a very quiet generator.)

Fred
K4DII

From 2241943177613553064
X-Google-Thread: f573f,dc161d50a71fbffa,start
X-Google-Thread: 10b346,dc161d50a71fbffa,start
X-Google-Thread: 105ae5,dc161d50a71fbffa,start
X-Google-Thread: f5125,dc161d50a71fbffa,start
X-Google-Thread: fc2a5,dc161d50a71fbffa,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07072019465071@4ax.com>
Subject: MI5 Persecution: Overview (450)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 19:46:53 GMT
Lines: 34

Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 30
Xref: g2news2.google.com alt.sex.masturbation:9498 alt.masturbation:302 hr.comp.amiga:297 tw.bbs.soc.media:255 rec.radio.amateur.homebrew:823

Overview

What all these snatches of video and audio, and newspaper articles, have in common is that none of them provide conclusive or very convincing evidence of their being directed against me, or forming part of a campaign against me. Other people with my illness doubtless could produce similar non-proof if they were minded to do so.

Good, now we've got the disclaimer out of the way, we can describe precisely what it is that is on display in this part of the site. In the video section, we have Quicktime (MPEG-4) clips of Jon Snow of ITN in action, also interviews with Ken Clarke and John Major of the ousted Tory regime. These are embedded in the page using QuickTime. While each audio/video clip is coded to automatically download the QuickTime player, you may find it helpful to download QuickTime from Apple's website before you start viewing the media files.

Note that each item is awarded a rating of the confidence I feel that it is directed at me, expressed as a percentage. Items with 50% or more are probably about me; 100% indicates a "dead cert".

In audio we have MP3 files of harassment at work in Canada in late 1996, also GLR's David Hepworth not even trying to pretend that he isn't getting at me, and a snippet of Capital. There is also an album track which I have taken as being about me. The newspapers section contains articles by Bernard Levin on his encounter with a madman who "bursts into tears, and swears it is all true - and it is". Also a Private Eye cover, and snippet from Victor Lewis-Smith.

I have added several recordings of abuse "in public". By Sept/1998 I had seven minidiscs of such recordings, unfortunately containing mostly very nasty sexual slanders which I will not be publishing on this website. The recordings were made on a Sony Minidisc Walkman MZ-R30, which I purchased in Canada in July/1997, with ECM-T140 microphone. After both the MZ-R30 and the microphone reached the end of their lives, in June/2001 I purchased as replacement my current recording gear, an MZ-R900 walkman with ECM-T145 microphone.

Share and Enjoy! I hope you enjoy partaking in my delusions which have been recorded with high fidelity digital equipment and presented for your listening pleasure.

450

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------

Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

```
From 3191651849659861928
X-Google-Thread: fc2a5,80f4208f4b78bfea
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!d55g2000hsg.googlegroups.com!not-for-
mail
From:  "Gian, I7SWX" <i7swx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I0CG new AD9912 1GHz DDS
Date: Mon, 20 Aug 2007 12:49:01 -0700
Organization: http://groups.google.com
Lines: 48
Message-ID: <1187639341.735012.262610@d55g2000hsg.googlegroups.com>
References: <1186318543.573793.122530@q75g2000hsh.googlegroups.com>
   <nGExi.2617$pu2.722@bignews1.bellsouth.net>
   <1187522394.068931.303130@r29g2000hsg.googlegroups.com>
   <on2yi.17736$Lu.10187@bignews8.bellsouth.net>
   <1187631792.449806.17550@k79g2000hse.googlegroups.com>
NNTP-Posting-Host: 82.53.12.157
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1187639341 20939 127.0.0.1 (20 Aug 2007 19:49:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 20 Aug 2007 19:49:01 +0000 (UTC)
In-Reply-To: <1187631792.449806.17550@k79g2000hse.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d55g2000hsg.googlegroups.com; posting-host=82.53.12.157;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:824

On Aug 20, 7:43 pm, Tim Shoppa <sho...@trailing-edge.com> wrote:
> On Aug 19, 5:12 pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
>
> > Gian, I7SWX wrote:
> > >> Now we have to find a low phase clock generator around 1.0 to 1.3 GHz.
>
> > > 73
>
> > > Gian
> > > I7SWX
>
> > Rots a Ruck!
> >  From the early specs looked like the chip has a built in PLL to
> > generate the clock from a lower frequency source.  Phase noise might not
> > be as good though.
>
> For applications sensitive to phase noise, the built in PLL's are not
```

> a help but a pretty severe hindrance. 27 dB of hindrance in particular
> for the chips I'm familiar with (AD9954 family) for phase noise 1kHz
> out.
>
> That doesn't mean that the DDS's (using refclock PLL or not) aren't
> still damn useful for all sorts of stuff!
>
> Tim.

Hi Ken,

Tim did comment properly to your PLL question.

User has to decide what he needs and if his application will be OK with the internal PLL multiplier or need an external low noise clock.

If one live in a place where the roads are not good he hs to compromise ... probably it is not good he buys a Ferrari but could be OK with a Corvette...maybe red...

If you have a high performance RX front-end probably it is better to use an AD9912 and an external Low noise oscillatorgiving at least 1Ghz clean signal for low phase noise and low spurs. If you have a SoftRock SDR I am sure you will be OK with an AD9851 using the internal PLL like it is done in the DDS-60.

73

Gian
I7SWX

From 4213303573103689405
X-Google-Thread: fc2a5,a04d585a393bb43a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!g4g2000hsf.googlegroups.com!not-for-mail
From: G4ZOW <sales@transmittersrus.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 1500w Mobile
Date: Mon, 20 Aug 2007 13:01:18 -0700
Organization: http://groups.google.com
Lines: 25
Message-ID: <1187640078.133215.70330@g4g2000hsf.googlegroups.com>
References: <1187616592.438900.108130@w3g2000hsg.googlegroups.com>
   <fmmck-0580FC.15183220082007@nntp.aioe.org>
NNTP-Posting-Host: 89.243.67.131
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1187640078 23400 127.0.0.1 (20 Aug 2007 20:01:18 GMT)
X-Complaints-To: groups-abuse@google.com

NNTP-Posting-Date: Mon, 20 Aug 2007 20:01:18 +0000 (UTC)
In-Reply-To: <fmmck-0580FC.15183220082007@nntp.aioe.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=89.243.67.131;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:825

Hi Fred,

I hear what you say but I really don't wish to tow anything let alone a genny.

I've experience with high output charging systems and split charging circuitry and have no problems supplying a 'stiff' 14v at a few hundred amps.

About the only good thing about running QRO on sideband is that the 'average' current drain is really not that high, even with say 50% efficiency out of the amp. Peak current is pretty high but a couple of decent quality batteries with a good charging system see that as no real pain.

2 X 0 or 4 X 0 welding cable is the order of the day for minimal voltage drop and a Leece or Electrodyne alternator.

Anyhow, let's see what others have to say.

Thanks again.

Phil G4ZOW

From 497961041768380302
X-Google-Thread: f573f,29f4a1ecdf810402,start
X-Google-Thread: 10b346,29f4a1ecdf810402,start
X-Google-Thread: 105ae5,29f4a1ecdf810402,start
X-Google-Thread: f5125,29f4a1ecdf810402,start
X-Google-Thread: fc2a5,29f4a1ecdf810402,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07072020022606@4ax.com>
Subject: MI5 Persecution: Ken Clarke (1), April 1997 (1673)
Newsgroups: alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew

Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 20:02:30 GMT
Lines: 31
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 27
Xref: g2news2.google.com alt.sex.masturbation:9499 alt.masturbation:303
hr.comp.amiga:298 tw.bbs.soc.media:256 rec.radio.amateur.homebrew:826

Ken Clarke (1), April 1997

Certainty level: 30%

The first of two video segments from the same program, this shows Jon Snow interviewing Ken Clarke in April 1997, during the general election campaign. The following exchange is heard;

Jon Snow: "You say we are booming in your posters, the bust's around the corner"

Ken Clarke: "You took that from three years ago, when I was being advised to do all kinds of mad things to stimulate the economy, and being told that I had to take desperate measures to get it going"

At this time I was watching television almost continuously at home, with a video recorder whirring away, trying to obtain from the newscasters a reaction which would give them away. I think this is an instance where it happened. Ken Clarke first darts a glance straight at the video camera (and perhaps at a monitor next to it showing my living room), then comes out with "all kinds of mad things", while engaging in a facial display involving raising of eyebrows and lowering of eyelids. To me at the time, and also now, it looked as if he was selecting a context into which he could drop the word "mad" as a directed insult against me.

1673

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From -2885283142701591257
X-Google-Thread: f573f,80e4ed58a72025cb,start
X-Google-Thread: 10b346,80e4ed58a72025cb,start
X-Google-Thread: 105ae5,80e4ed58a72025cb,start
X-Google-Thread: f5125,80e4ed58a72025cb,start
X-Google-Thread: fc2a5,80e4ed58a72025cb,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post02.iad01!post01.iad01!news.newsdemon.com!not-for-mail
Message-Id: <m07072020190277@4ax.com>
Subject: MI5 Persecution: Ken Clarke (2), April 1997 (2896)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.amateur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 20:19:05 GMT
Lines: 28
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 24
Xref: g2news2.google.com alt.sex.masturbation:9502 alt.masturbation:304 hr.comp.amiga:299 tw.bbs.soc.media:257 rec.radio.amateur.homebrew:827

Ken Clarke (2), April 1997

Certainty level: 30%

The second of two video segments from the same programme, this shows Ken Clarke during the election campaign. He makes the following statement;

"we have a party, and we have a Cabinet which has produced a manifesto
consistent with our policy of the last five years;
people are challenging us on the basis there's been some monstrous
conspiracy between all the politicians to guide us we know not where,
we know where we're going, we wish to be a leading influence in the European
Union"

It should be fairly obvious what I read into in the above sentences. The "monstrous conspiracy between all the politicians" could of course apply to the public perception of closer European integration, but I took it as referring to the conspiracy of politicians and media people against me. Again, facial expression comes into it; as Clarke speaks of the "monstrous conspiracy" his eyebrows twitch and it is clear that something or somebody is being made fun of.

2896

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

```
From -3446586380890147501
X-Google-Thread: f573f,d4b2c6abf4690d7,start
X-Google-Thread: 10b346,d4b2c6abf4690d7,start
X-Google-Thread: 105ae5,d4b2c6abf4690d7,start
X-Google-Thread: f5125,d4b2c6abf4690d7,start
X-Google-Thread: fc2a5,d4b2c6abf4690d7,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07072020361015@4ax.com>
Subject: MI5 Persecution: Dimbleby / John Major, April 1997 (4119)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 20:36:14 GMT
Lines: 31
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 27
Xref: g2news2.google.com alt.sex.masturbation:9503 alt.masturbation:305
hr.comp.amiga:300 tw.bbs.soc.media:258 rec.radio.amateur.homebrew:828
```

Dimbleby / John Major, April 1997

Certainty level: 90%

Dimbleby interviews John Major during the election campaign. Here is the exchange, regarding Neil Hamilton, the "sleazy" Tory candidate;

Dimbleby: "It's a direct quotation from what he said to Sir Gordon Downey and what he said to his local newspaper, the Knutsford Guardian".
Major: "Well, heaven forfend that I should doubt what the Knutsford Guardian actually said"
Dimbleby: "Well I should hope so"
Major: "Absolutely, it would be quite unforgivable to doubt the Knutsford Guardian"

What I find in this segment is an assonance between "Knutsford" and "Nut" or "Nuts". I think Dimbleby deliberately invents the play on words, and says it clearly enough for Major to pick it up and repeat it. You can gauge Dimbleby's intent from his facial expression of false honesty when he uses the words "Knutsford Guardian"; and Major's reaction follows from his recognition of Dimbleby's intent; Major smiles and says it would be "unforgivable to doubt the Knutsford Guardian". These are much clearer on the original video than on this Quicktime clip.

4119

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
      ------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

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From 5111344067734283296
X-Google-Thread: f573f,6c14634fa5e1c310,start
X-Google-Thread: 10b346,6c14634fa5e1c310,start
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X-Google-Thread: f5125,6c14634fa5e1c310,start
X-Google-Thread: fc2a5,6c14634fa5e1c310,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07072020541009@4ax.com>
Subject: MI5 Persecution: Channel Four TV News - 12/Feb/1999 (5342)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 20:54:15 GMT
Lines: 29
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 25
Xref: g2news2.google.com alt.sex.masturbation:9507 alt.masturbation:306
hr.comp.amiga:301 tw.bbs.soc.media:259 rec.radio.amateur.homebrew:829
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Channel Four TV News - 12/Feb/1999

Certainty level: 100%

I am positively, utterly, completely sure this item is about me. It's a bit subtle so the objective reader might not understand my certainty. Here is what happened. I was watching Channel Four News with Jon Snow, on the day Clinton "got off" (as it were) in the Monica-gate scandal. Snow said;

"[and we're anticipating that the President himself will make his] first comments after the trial in which he has now been cleared at around half-past seven. So we'll have more on the historic judgment, we'll also be considering [starts smiling] the winners and losers in this whole sorry saga. Now further doubts have been...."

When Snow said "half-past seven", I looked at the clock on the mantelpiece above the TV. Snow saw my glance, and in reaction to my glance at the clock, smiled. I think he was smiling at what he perceived as my self-importance.

Usually when newscasters or radio presenters laugh at me, there is an excuse for their laughter; usually they manage to find some reason for my being "funny"; their amusement is blamed on me; it is my "fault" they are laughing. And so it was with this instance; Jon Snow thought it was funny that I should be so interested in seeing Clinton, and his half-smile while reading the words "winners and losers" expresses that.

I wrote to Snow at ITN shortly after this broadcast to ask him about his behaviour; of course, he didn't reply.

5342

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From 4009480693427682668
X-Google-Thread: fc2a5,a04d585a393bb43a
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
news.mixmin.net!newsfeeder.dynfx.net!news.szaf.org!news.albasani.net!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 1500w Mobile
Date: Mon, 20 Aug 2007 14:05:13 -0700
Organization: albasani.net
Lines: 15
Message-ID: <facvma$q8i$1@news.albasani.net>
References: <1187616592.438900.108130@w3g2000hsg.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
1SDn+kvvOvpscTrn8Nf20Si1bRrED4Q5LfaRebnEJldA8qxkCeNTZ2spr5CSh2pFZDVisfIeq8HZq7MtuB
mVOx9L9tog1wM869V/q3R6ck4vZ0gU50f5uWqzJ5F64Sj9
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Mon, 20 Aug 2007 21:05:15 +0000 (UTC)
X-User-ID: p+ul8nprEWKLIYD9FBkIQhq0CkjoDlsUprjEKvUie24=
In-Reply-To: <1187616592.438900.108130@w3g2000hsg.googlegroups.com>
Cancel-Lock: sha1:qamRLy8NiSyGH9kjOgiaOgRg0G8=
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
X-NNTP-Posting-Host: Mk2s93/gRGHUkE/0SS+Psm/
v2bYvWL6bjwTZfmZO25mzUs31r3d5iONiWUaz8CrgSkx0gZHJgBfwLnLjOrNY5A==
Xref: g2news2.google.com rec.radio.amateur.homebrew:830

sales@transmittersrus.com wrote:

> ...
> Your thoughts on "Son of Metron".
>
> Phil G4ZOW
>

Fill the trunk with batteries, run two 100 amp alternators in parallel, solid state batteries switch for the batteries and buy plenty of 0 or 00 stranded wire and expect for a lot more people to hear you then you can hear ... blah, blah, blah.

Regards,
JS

```
From -8772971365751194223
X-Google-Thread: f573f,d7684131aab2c7f6,start
X-Google-Thread: 10b346,d7684131aab2c7f6,start
X-Google-Thread: 105ae5,d7684131aab2c7f6,start
X-Google-Thread: f5125,d7684131aab2c7f6,start
X-Google-Thread: fc2a5,d7684131aab2c7f6,start
X-Google-Attributes: gidf573f,gid10b346,gid105ae5,gidf5125,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
news.newsdemon.com!not-for-mail
Message-Id: <m07072021103666@4ax.com>
Subject: MI5 Persecution: Chris Tarrant - 10/March/1999 (6565)
Newsgroups:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew
Followup-To:
alt.sex.masturbation,alt.masturbation,hr.comp.amiga,tw.bbs.soc.media,rec.radio.ama
teur.homebrew,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 20 Aug 2007 21:10:40 GMT
Lines: 35
Organization: news.newsdemon.com
X-Complaints-To: abuse@newsdemon.com
X-Original-Lines: 31
Xref: g2news2.google.com alt.sex.masturbation:9512 alt.masturbation:307
hr.comp.amiga:302 tw.bbs.soc.media:260 rec.radio.amateur.homebrew:831
```

Chris Tarrant - 10/March/1999

Certainty level: 25%

This one might be aimed at me, or it might be tinged with a whiff of intent, although I only give one chance in four for Tarrant's thoughts being aimed at me when he said this. During his "Who wants to be a Millionaire" TV show in

March 1999, he said;

if you're watching the show jumping up and down screaming at the telly, remember you could be here. You can either seek professional help or call us...

The background is as follows. In early March I'd sent a quantity of emails to Capital FM, the London radio station where Mr Tarrant has his breakfast show. They were addressed to the email account which Mr Tarrant used to read emails posted on Capital's website. Capital objected to the quantity of emails - in fact, they contacted the Metropolitan Police's Computer Crime unit, who, in turn, "felt my collar" by giving me a verbal warning over the phone to cease this behaviour.

The emails contained the words which I had heard Mr Tarrant speak in early 1994, namely;

"You know this bloke? He says we're trying to kill him.
We should be done for attempted manslaughter".

At the time of writing (May 1999), the Police have not told me what aspect of the emails was "illegal", nor despite my repeated urging have they questioned Mr Tarrant about his remarks from 1994.

Regarding the clip from Tarrant's show above. The Police spoke to me on the afternoon of Wednesday 10 March 1999. Tarrant's live show went out that same evening. The Police have told me that after speaking to me they told Capital FM that they'd spoken to me regarding the emails. So Tarrant would have known by the time of the show who'd sent the emails and why.... and it's quite possible that his remarks about "seeking professional help" were aimed at me personally following my attempts to persuade him to own up to his 1994 remarks.

6565

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Posted via NewsDemon.com - Premium Uncensored Newsgroup Service
------->>>>>>http://www.NewsDemon.com<<<<<<------
Unlimited Access, Anonymous Accounts, Uncensored Broadband Access

From 4402731739046193702
X-Google-Thread: fc2a5,6c30c746ef220c9,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!feeder2-2.proxad.net!62.253.162.218.MISMATCH!news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!newsfe3-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Theo" <theodore.twyler@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Low & Medium Frequency Scrapbook 1983 edition
Lines: 5

X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <AWoyi.23759$ie3.19043@newsfe3-gui.ntli.net>
Date: Mon, 20 Aug 2007 22:52:16 GMT
NNTP-Posting-Host: 82.9.82.106
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe3-gui.ntli.net 1187650336 82.9.82.106 (Mon, 20 Aug 2007 23:52:16 BST)
NNTP-Posting-Date: Mon, 20 Aug 2007 23:52:16 BST
Organization: NTL
Xref: g2news2.google.com rec.radio.amateur.homebrew:832

Does anyone have a copy of this book, or know where I can obtain one please?
Any assistance would be greatly appreciated.
Please reply soon if you can help.

From 800248384810907273
X-Google-Thread: fc2a5,df5a04ede3053770,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l22g2000prc.googlegroups.com!not-for-mail
From: xjx588 <xjx_588@126.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Antique 1912-1949 Porcelain teapot 528 chinaware 400 Website invitation visit
Date: Mon, 20 Aug 2007 19:09:05 -0700
Organization: http://groups.google.com
Lines: 10
Message-ID: <1187662145.655641.169190@l22g2000prc.googlegroups.com>
NNTP-Posting-Host: 60.187.175.72
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Content-Type: text/plain; charset="gb2312"
X-Trace: posting.google.com 1187662146 24232 127.0.0.1 (21 Aug 2007 02:09:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 21 Aug 2007 02:09:06 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l22g2000prc.googlegroups.com; posting-host=60.187.175.72;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:833

Antique 1912-1949 Porcelain teapot 528 chinaware 400 Website
invitation visit
Website http://www.xjx588.com
http://www.xjx588.com/more.asp?name=xjx588&id=14

```
E-mail xjx_588@tom.com
xjx_588@126.com
City Shengzhou Zhejiang China
Thanks !
Jianxiong Xu



From 8677937096282315702
X-Google-Thread: fc2a5,d40af1bc1b12bfc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m37g2000prh.googlegroups.com!not-for-
mail
From:  fratchj@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How do I change my tube type am car radio to solid state am fm radio?
Date: Sun, 12 Aug 2007 16:30:51 -0700
Organization: http://groups.google.com
Lines: 22
Message-ID: <1186961451.737656.256030@m37g2000prh.googlegroups.com>
References: <1186798156.475518.229790@i38g2000prf.googlegroups.com>
   <IYadnXvI05ltzyLbnZ2dnUVZ_uvinZ2d@bright.net>
NNTP-Posting-Host: 24.23.37.64
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1186961452 12841 127.0.0.1 (12 Aug 2007 23:30:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 12 Aug 2007 23:30:52 +0000 (UTC)
In-Reply-To: <IYadnXvI05ltzyLbnZ2dnUVZ_uvinZ2d@bright.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
3.0.04506),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m37g2000prh.googlegroups.com; posting-host=24.23.37.64;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:732

On Aug 12, 11:35?am, Scott <acepi...@bloomer.net> wrote:
> Do you mean removing the guts and replacing tubes with with modern solid
> state parts or do you mean somehow replacing entire radio with an Alpine
> or Pioneer or something that will fit in the hole in the dash?
>
> frat...@aol.com wrote:
> > I have a 57 ford radio with town and country, it is tube am.  Is there
> > any articals around on changing this to solid state with fm?
>
> > John  WA8ZPN
>
> --
> Scotthttp://corbenflyer.tripod.com/
> Gotta Fly or Gonna Die
```

> Building RV-4 (Super Slow Build Version)

Hi Scott. what I would like to do is use the original radio and
replace all the tubes with solid state. I have built a few stations
over the years so it can't be that hard.

John

From -4484342081438790320
X-Google-Thread: fc2a5,e6b6b070bf313b0b,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!meganewsservers.com!
feeder2.on.meganewsservers.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!
trndny02.POSTED!e347066c!not-for-mail
From: "KB3IBT Dan K" <dankal@email.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: TS-530s Finals neutralization
Lines: 7
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <6vNvi.1387$hK5.1064@trndny02>
Date: Mon, 13 Aug 2007 00:22:26 GMT
NNTP-Posting-Host: 72.81.71.45
X-Complaints-To: abuse@verizon.net
X-Trace: trndny02 1186964546 72.81.71.45 (Sun, 12 Aug 2007 20:22:26 EDT)
NNTP-Posting-Date: Sun, 12 Aug 2007 20:22:26 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:733

Hello All,
I was told by a ham during a QSO that if I buy a matched pair of 6146b's, I
would not need to neutralize them?? Is that true?

Thanks KB3IBT

From -1258266016983846636
X-Google-Thread: fc2a5,e6b6b070bf313b0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!meganewsservers.com!
feeder2.on.meganewsservers.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-
media.com!hw-filter.lga!newsfe18.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>

```
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <6vNvi.1387$hK5.1064@trndny02>
Subject: Re: TS-530s Finals neutralization
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <4yNvi.163998$5y.140852@newsfe18.lga>
Date: Sun, 12 Aug 2007 20:25:36 -0400
NNTP-Posting-Host: 68.229.79.253
X-Complaints-To: admin@cox.net
X-Trace: newsfe18.lga 1186964736 68.229.79.253 (Sun, 12 Aug 2007 17:25:36 MST)
NNTP-Posting-Date: Sun, 12 Aug 2007 17:25:36 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:734


"KB3IBT Dan K" <dankal@email.com> wrote in message
news:6vNvi.1387$hK5.1064@trndny02...
> Hello All,
> I was told by a ham during a QSO that if I buy a matched pair of 6146b's,
> I would not need to neutralize them?? Is that true?
>
> Thanks KB3IBT
>

No.





From -4581967139823922137
X-Google-Thread: 106d41,e25f8e7e7f7cc3a1
X-Google-Thread: 108122,5f4b546f0161ebac
X-Google-Thread: fc2a5,5f4b546f0161ebac
X-Google-Thread: 10bf43,7f678860cf334d7f
X-Google-Thread: 10f7a7,7f678860cf334d7f
X-Google-Thread: 1135a8,e34b739459a1ee59,start
X-Google-Thread: 10e66a,e34b739459a1ee59,start
X-Google-Attributes:
gid106d41,gid108122,gidfc2a5,gid10bf43,gid10f7a7,gid1135a8,gid10e66a,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: "21W2319" <21W2319@HFint.org>
Newsgroups:
rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amat
eur.policy,alt.usenet.kooks,alt.autos.mini,alt.radio.family
References: <1186168563.032053.11960@i13g2000prf.googlegroups.com>
```

```
<46b3b6e5_3@mk-nntp-2.news.uk.tiscali.com>
<1186231447.136481.50550@q3g2000prf.googlegroups.com>
<u8gkb3di4k2jc329q4l96h2la6ba8kcm67@4ax.com>
<1186615639.897400.127530@i13g2000prf.googlegroups.com>
<rb6mb31ubltji64j2lcnflr3an2gp8n7sb@4ax.com>
<de6mb3lhn4h14j4mmlblmqtsu6h9sum2mp@4ax.com>
<1186932633.661667.170370@j4g2000prf.googlegroups.com>
In-Reply-To: <1186932633.661667.170370@j4g2000prf.googlegroups.com>
Subject: Re: VoiceMax has Arrived... Introductory Priced on Ebay
Date: Sun, 12 Aug 2007 20:17:45 -0500
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6000.16480
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6000.16480
Lines: 18
Message-ID: <46bfa624$0$25252$88260bb3@free.teranews.com>
NNTP-Posting-Date: 13 Aug 2007 00:30:29 GMT
X-Complaints-To: abuse@teranews.com
X-Original-Lines: 15
Xref: g2news2.google.com rec.radio.cb:2662 rec.radio.amateur.equipment:712
rec.radio.amateur.homebrew:735 rec.radio.amateur.policy:6779
alt.usenet.kooks:51300 alt.autos.mini:1377 alt.radio.family:115


"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
news:1186932633.661667.170370@j4g2000prf.googlegroups.com...
> On Aug 9, 8:43 am, M...@TayleorRobesin.org wrote:
>> "one useless man is disgrace 2 become a law firm 3 or more become a
>> congress"
>
>
> I think this should really read...
>
> "one useless post is disgrace 2 become a nuisance 3 or more become a
> CB NG"
>
INDEED!!!!!!!!!!


--
Posted via a free Usenet account from http://www.teranews.com



From 7399794089488101117
X-Google-Thread: fc2a5,d40af1bc1b12bfc5
X-Google-Attributes: gidfc2a5,public,usenet
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 12 Aug 2007 20:37:15 -0500
Date: Mon, 13 Aug 2007 01:37:14 +0000
From: Scott <acepilot@bloomer.net>
Reply-To:  acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How do I change my tube type am car radio to solid state am fm
 radio?
References: <1186798156.475518.229790@i38g2000prf.googlegroups.com>
<IYadnXvI05ltzyLbnZ2dnUVZ_uvinZ2d@bright.net>
<1186961451.737656.256030@m37g2000prh.googlegroups.com>
In-Reply-To: <1186961451.737656.256030@m37g2000prh.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <wZydnQAmmtpWKCLbnZ2dnUVZ_vyinZ2d@bright.net>
Lines: 35
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-jzigi0wlItGhhydl71YHByITIl2bpvFbVJDm45jzzHSroAloysc8dd5iEDR7FAlTv/Ey/
33jIblmsa7!
Y7i3ZyhV9wK0PGRCob8A2Rxxr9jHgHkQ3PtcteCKMw0gAxfSVs4wAxyROdVfRM7s7u70VnfAZMu3!
7Y5KP8UPiA==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:736
```

OK, maybe you can remove all the old guts and do some magic and put new guts (from a donor radio) into the old case?

fratchj@aol.com wrote:

```
> On Aug 12, 11:35?am, Scott <acepi...@bloomer.net> wrote:
>
>>Do you mean removing the guts and replacing tubes with with modern solid
>>state parts or do you mean somehow replacing entire radio with an Alpine
>>or Pioneer or something that will fit in the hole in the dash?
>>
>>frat...@aol.com wrote:
>>
>>>I have a 57 ford radio with town and country, it is tube am.  Is there
>>>any articals around on changing this to solid state with fm?
>>
>>>John  WA8ZPN
```

```
>>
>>--
>>Scotthttp://corbenflyer.tripod.com/
>>Gotta Fly or Gonna Die
>>Building RV-4 (Super Slow Build Version)
>
>
> Hi Scott. what I would like to do is use the original radio and
> replace all the tubes with solid state.  I have built a few stations
> over the years so it can't be that hard.
>
> John
>

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)


From 2846392397976461271
X-Google-Thread: fc2a5,e6b6b070bf313b0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: TS-530s Finals neutralization
Date: 13 Aug 2007 01:54:20 GMT
Lines: 6
Message-ID: <slrnfbveec.1l2r.bit-bucket@shell.config.com>
References: <6vNvi.1387$hK5.1064@trndny02>
X-Trace: individual.net KisPvm8443R/tzD/B2tzQQoorvPtHSK7GRQmq6jdqcdrzGJn+E
Cancel-Lock: sha1:2w42soaThbfvXukNvzCGdAoz/Fs=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news2.google.com rec.radio.amateur.homebrew:737

On Mon, 13 Aug 2007 00:22:26 GMT, KB3IBT Dan K wrote:
>
> I was told by a ham during a QSO that if I buy a matched pair of
> 6146b's, I > would not need to neutralize them?? Is that true?

No.


From 8344104863038602828
X-Google-Thread: 106d41,e25f8e7e7f7cc3a1
X-Google-Thread: 108122,5f4b546f0161ebac
X-Google-Thread: fc2a5,5f4b546f0161ebac
X-Google-Thread: 10bf43,7f678860cf334d7f
X-Google-Thread: 10f7a7,7f678860cf334d7f
```

```
X-Google-Thread: 10e66a,e34b739459a1ee59
X-Google-Thread: f7645,27a1566faafef04b,start
X-Google-Thread: 1135a8,e34b739459a1ee59
X-Google-Attributes:
gid106d41,gid108122,gidfc2a5,gid10bf43,gid10f7a7,gid10e66a,gidf7645,gid1135a8,publ
ic,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: "KBZQ-3917" <bs@nomail.mfu>
Newsgroups:
rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amat
eur.policy,alt.usenet.kooks,alt.radio.family,alt.support.child-protective-
services,alt.autos.mini
References: <1186168563.032053.11960@i13g2000prf.googlegroups.com>
<46b3b6e5_3@mk-nntp-2.news.uk.tiscali.com>
<1186231447.136481.50550@q3g2000prf.googlegroups.com>
<u8gkb3di4k2jc329q4l96h2la6ba8kcm67@4ax.com>
<1186615639.897400.127530@i13g2000prf.googlegroups.com>
<rb6mb31ubltji64j2lcnflr3an2gp8n7sb@4ax.com>
<de6mb3lhn4h14j4mmlblmqtsu6h9sum2mp@4ax.com>
<1186932633.661667.170370@j4g2000prf.googlegroups.com>
<46bfa624$0$25252$88260bb3@free.teranews.com>
In-Reply-To: <46bfa624$0$25252$88260bb3@free.teranews.com>
Subject: Re: VoiceMax has Arrived... Marqueer Introductory !!
Date: Sun, 12 Aug 2007 21:49:00 -0500
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6000.16480
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6000.16480
Lines: 24
Message-ID: <46bfbb84$0$16300$88260bb3@free.teranews.com>
NNTP-Posting-Date: 13 Aug 2007 02:01:42 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.cb:2665 rec.radio.amateur.equipment:716
rec.radio.amateur.homebrew:738 rec.radio.amateur.policy:6790
alt.usenet.kooks:51335 alt.radio.family:119 alt.support.child-protective-
services:6457 alt.autos.mini:1382


"21W2319" <21W2319@HFint.org> wrote in message
news:46bfa624$0$25252$88260bb3@free.teranews.com...
>
> "Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
> news:1186932633.661667.170370@j4g2000prf.googlegroups.com...
>> On Aug 9, 8:43 am, M...@TayleorRobesin.org wrote:
>>> "one useless man is disgrace 2 become a law firm 3 or more become a
>>> congress"
>>
>>
>> I think this should really read...
>>
>> "one useless post is disgrace 2 become a nuisance 3 or more become a
>> CB NG"
>>
> INDEED!!!!!!!!!!
>
> --
> Posted via a free Usenet account from http://www.teranews.com

indeed!
>



--
Posted via a free Usenet account from http://www.teranews.com




From -8044415653820529122
X-Google-Thread: 106d41,e25f8e7e7f7cc3a1
X-Google-Thread: 108122,5f4b546f0161ebac
X-Google-Thread: fc2a5,5f4b546f0161ebac
X-Google-Thread: 10bf43,7f678860cf334d7f
X-Google-Thread: 10f7a7,7f678860cf334d7f
X-Google-Thread: 10e66a,e34b739459a1ee59
X-Google-Thread: f7645,27a1566faafef04b
X-Google-Thread: 1135a8,e34b739459a1ee59
X-Google-Attributes:
gid106d41,gid108122,gidfc2a5,gid10bf43,gid10f7a7,gid10e66a,gidf7645,gid1135a8,publ
ic,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: Mark@TayleorRobesin.org
Newsgroups:
rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amat
eur.policy,alt.usenet.kooks,alt.radio.family,alt.support.child-protective-
services,alt.autos.mini
Subject: Re: VoiceMax has Arrived..
Date: Mon, 13 Aug 2007 00:19:00 -0400
Message-ID: <usmvb3hfr1570h0ed4djikc93p2gmrbd67@4ax.com>
References: <46b3b6e5_3@mk-nntp-2.news.uk.tiscali.com>
<1186231447.136481.50550@q3g2000prf.googlegroups.com>
<u8gkb3di4k2jc329q4l96h2la6ba8kcm67@4ax.com>
<1186615639.897400.127530@i13g2000prf.googlegroups.com>
<rb6mb31ubltji64j2lcnflr3an2gp8n7sb@4ax.com>
<de6mb3lhn4h14j4mmlblmqtsu6h9sum2mp@4ax.com>
<1186932633.661667.170370@j4g2000prf.googlegroups.com>
<46bfa624$0$25252$88260bb3@free.teranews.com>
```

```
<46bfbb84$0$16300$88260bb3@free.teranews.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 22
NNTP-Posting-Date: 13 Aug 2007 03:27:26 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.cb:2667 rec.radio.amateur.equipment:717
rec.radio.amateur.homebrew:739 rec.radio.amateur.policy:6793
alt.usenet.kooks:51357 alt.radio.family:120 alt.support.child-protective-
services:6462 alt.autos.mini:1383

On Sun, 12 Aug 2007 21:49:00 -0500, "KBZQ-3917" <bs@nomail.mfu> wrote:

>
>"21W2319" <21W2319@HFint.org> wrote in message
>news:46bfa624$0$25252$88260bb3@free.teranews.com...
>>

>> --
>> Posted via a free Usenet account from http://www.teranews.com
>
>indeed!
>>
indeed what?

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/

G

--
Posted via a free Usenet account from http://www.teranews.com



From 3298178673104852726
X-Google-Thread: fc2a5,d40af1bc1b12bfc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!g12g2000prg.googlegroups.com!not-for-
mail
From:  fratchj@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How do I change my tube type am car radio to solid state am fm radio?
Date: Sun, 12 Aug 2007 21:29:27 -0700
Organization: http://groups.google.com
Lines: 44
```

```
Message-ID: <1186979367.276234.61310@g12g2000prg.googlegroups.com>
References: <1186798156.475518.229790@i38g2000prf.googlegroups.com>
   <IYadnXvI05ltzyLbnZ2dnUVZ_uvinZ2d@bright.net>
   <1186961451.737656.256030@m37g2000prh.googlegroups.com>
   <wZydnQAmmtpWKCLbnZ2dnUVZ_vyinZ2d@bright.net>
NNTP-Posting-Host: 24.23.37.64
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1186979367 882 127.0.0.1 (13 Aug 2007 04:29:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 13 Aug 2007 04:29:27 +0000 (UTC)
In-Reply-To: <wZydnQAmmtpWKCLbnZ2dnUVZ_vyinZ2d@bright.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0;
SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR
3.0.04506),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g12g2000prg.googlegroups.com; posting-host=24.23.37.64;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:740

On Aug 12, 6:37?pm, Scott <acepi...@bloomer.net> wrote:
> OK, maybe you can remove all the old guts and do some magic and put new
> guts (from a donor radio) into the old case?
>
>
>
>
>
> frat...@aol.com wrote:
> > On Aug 12, 11:35?am, Scott <acepi...@bloomer.net> wrote:
>
> >>Do you mean removing the guts and replacing tubes with with modern solid
> >>state parts or do you mean somehow replacing entire radio with an Alpine
> >>or Pioneer or something that will fit in the hole in the dash?
>
> >>frat...@aol.com wrote:
>
> >>>I have a 57 ford radio with town and country, it is tube am.  Is there
> >>>any articals around on changing this to solid state with fm?
>
> >>>John  WA8ZPN
>
> >>--
> >>Scotthttp://corbenflyer.tripod.com/
> >>Gotta Fly or Gonna Die
> >>Building RV-4 (Super Slow Build Version)
>
> > Hi Scott. what I would like to do is use the original radio and
> > replace all the tubes with solid state.  I have built a few stations
> > over the years so it can't be that hard.
>
> > John
```

```
>
> --
> Scotthttp://corbenflyer.tripod.com/
> Gotta Fly or Gonna Die
> Building RV-4 (Super Slow Build Version)- Hide quoted text -
>
> - Show quoted text -
```

If worst comes to worst, that is what I may do.

John

```
From -8601954088044738504
X-Google-Thread: fc2a5,d40af1bc1b12bfc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i38g2000prf.googlegroups.com!not-for-
mail
From:  whru@msn.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How do I change my tube type am car radio to solid state am fm radio?
Date: Sun, 12 Aug 2007 21:46:47 -0700
Organization: http://groups.google.com
Lines: 7
Message-ID: <1186980407.604008.17860@i38g2000prf.googlegroups.com>
References: <1186798156.475518.229790@i38g2000prf.googlegroups.com>
   <IYadnXvI05ltzyLbnZ2dnUVZ_uvinZ2d@bright.net>
   <1186961451.737656.256030@m37g2000prh.googlegroups.com>
   <wZydnQAmmtpWKCLbnZ2dnUVZ_vyinZ2d@bright.net>
   <1186979367.276234.61310@g12g2000prg.googlegroups.com>
NNTP-Posting-Host: 69.105.53.126
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1186980408 4163 127.0.0.1 (13 Aug 2007 04:46:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 13 Aug 2007 04:46:48 +0000 (UTC)
In-Reply-To: <1186979367.276234.61310@g12g2000prg.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1; .NET
CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04320),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i38g2000prf.googlegroups.com; posting-host=69.105.53.126;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:741
```

John,
it is alot more fun to restore an old tube radio.
I did it many times. Parts are available.
Fred
wb6iiq

```
From -7183271905968980922
X-Google-Thread: fc2a5,e6b6b070bf313b0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc02.POSTED!e347066c!not-for-mail
From: "KB3IBT Dan K" <dankal@email.com>
Newsgroups: rec.radio.amateur.homebrew
References: <6vNvi.1387$hK5.1064@trndny02>
Subject: Re: TS-530s Finals neutralization
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <nc6wi.1578$jU4.1482@trnddc02>
Date: Mon, 13 Aug 2007 23:56:03 GMT
NNTP-Posting-Host: 72.81.71.45
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc02 1187049363 72.81.71.45 (Mon, 13 Aug 2007 19:56:03 EDT)
NNTP-Posting-Date: Mon, 13 Aug 2007 19:56:03 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:742
X-Original-Bytes: 1200


"KB3IBT Dan K" <dankal@email.com> wrote in message
news:6vNvi.1387$hK5.1064@trndny02...
> Hello All,
> I was told by a ham during a QSO that if I buy a matched pair of 6146b's,
> I would not need to neutralize them?? Is that true?
>
> Thanks KB3IBT


So why should I get a matched pair?
I could save some money if I don't.
>
>
```

```
From 4903344345878280860
X-Google-Thread: fc2a5,e6b6b070bf313b0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe14.lga.POSTED!53ab2750!not-for-mail
```

Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <6vNvi.1387$hK5.1064@trndny02> <nc6wi.1578$jU4.1482@trnddc02>
Subject: Re: TS-530s Finals neutralization
Lines: 30
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <Su6wi.77848$g86.33480@newsfe14.lga>
Date: Mon, 13 Aug 2007 20:15:45 -0400
NNTP-Posting-Host: 68.229.79.253
X-Complaints-To: admin@cox.net
X-Trace: newsfe14.lga 1187050546 68.229.79.253 (Mon, 13 Aug 2007 17:15:46 MST)
NNTP-Posting-Date: Mon, 13 Aug 2007 17:15:46 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:743

"KB3IBT Dan K" <dankal@email.com> wrote in message
news:nc6wi.1578$jU4.1482@trnddc02...
>
> "KB3IBT Dan K" <dankal@email.com> wrote in message
> news:6vNvi.1387$hK5.1064@trndny02...
>> Hello All,
>> I was told by a ham during a QSO that if I buy a matched pair of 6146b's,
>> I would not need to neutralize them?? Is that true?
>>
>> Thanks KB3IBT
>
>
> So why should I get a matched pair?
> I could save some money if I don't.
>>

Matched pair implies the tubes will be drawing equal current for a given
grid bias; there is no way to "balance" the tubes in most rigs.

Neutralization is used to cancel unwanted capacitive coupling between
the internal tube elements, which varies by manufacturer and tolerances.

Usually you don't need a "matched pair"; I'd go with new tubes of the
same manufacturer and relatively close production dates. In other
words, don't mix a used RCA 6146A with a new imported 6146B
and expect the tubes to last.

From 6073609758381630999

X-Google-Thread: fc2a5,e6b6b070bf313b0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!199.45.49.37!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc02.POSTED!e347066c!not-for-mail
From: "KB3IBT Dan K" <dankal@email.com>
Newsgroups: rec.radio.amateur.homebrew
References: <6vNvi.1387$hK5.1064@trndny02> <nc6wi.1578$jU4.1482@trnddc02> <Su6wi.77848$g86.33480@newsfe14.lga>
Subject: Re: TS-530s Finals neutralization
Lines: 44
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <T37wi.2045$jU4.1273@trnddc02>
Date: Tue, 14 Aug 2007 00:55:15 GMT
NNTP-Posting-Host: 72.81.71.45
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc02 1187052915 72.81.71.45 (Mon, 13 Aug 2007 20:55:15 EDT)
NNTP-Posting-Date: Mon, 13 Aug 2007 20:55:15 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:744

Oh, wow, thanks for the explanation Uncle Peter. I really appreciate it! I'm gonna stick with new tubes. I hope my TS-530 will be able to tune up. Its been sitting almost a year collectin dust next to my beloved TS-870.
I tried tuning the 530 this past Sunday and it wouldn't budge. Nothing at all. It still receives pretty good.

Again, Thanks!

"Uncle Peter" <radioconnection@cox.net> wrote in message
news:Su6wi.77848$g86.33480@newsfe14.lga...
>
> "KB3IBT Dan K" <dankal@email.com> wrote in message
> news:nc6wi.1578$jU4.1482@trnddc02...
>>
>> "KB3IBT Dan K" <dankal@email.com> wrote in message
>> news:6vNvi.1387$hK5.1064@trndny02...
>>> Hello All,
>>> I was told by a ham during a QSO that if I buy a matched pair of
>>> 6146b's, I would not need to neutralize them?? Is that true?
>>>
>>> Thanks KB3IBT
>>
>>
>> So why should I get a matched pair?
>> I could save some money if I don't.
>>>

>
> Matched pair implies the tubes will be drawing equal current for a given
> grid bias; there is no way to "balance" the tubes in most rigs.
>
> Neutralization is used to cancel unwanted capacitive coupling between
> the internal tube elements, which varies by manufacturer and tolerances.
>
> Usually you don't need a "matched pair"; I'd go with new tubes of the
> same manufacturer and relatively close production dates.   In other
> words, don't mix a used RCA 6146A with a new imported 6146B
> and expect the tubes to last.
>
>
>

From 4978076191512917315
X-Google-Thread: fc2a5,608ea0e0fbfe87e1,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wn14feed!worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!7bd46aa5!not-for-mail
From: "numeric" <numeric@att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: IBOC decoder?
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Message-ID: <L%awi.34785$ax1.29853@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: 7339f1ce6b804e09715c7f53304575e8
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1187069035 7339f1ce6b804e09715c7f53304575e8 (Tue, 14 Aug 2007 05:23:55 GMT)
NNTP-Posting-Date: Tue, 14 Aug 2007 05:23:55 GMT
Organization: AT&T Worldnet
Date: Tue, 14 Aug 2007 05:23:55 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:745

I am designing a broadband radio with all decoders implemented in software. So far I have developed AM, FM, SSB, CW and DRM (digital radio) software methods for reception. I would also like to include iBiquity digital for the AM and FM bands. My guess is that IBOC is a variation of OFDM transmission, but so far the details seem deliberately evasive. Any one with more details?

I think that IBOC is headed for oblivion. Would like to see how it performs before it dies. There are no commercial radios that I would want to buy for HD radio, they all seem like a mind-numbing waste of money. My only interest is a home brew software version integrated into a multimode receiver.

From -4861122554445518510
X-Google-Thread: fc2a5,608ea0e0fbfe87e1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe24.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <L%awi.34785$ax1.29853@bgtnsc05-news.ops.worldnet.att.net>
Subject: Re: IBOC decoder?
Lines: 29
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <%cfwi.4565$q_5.4051@newsfe24.lga>
Date: Tue, 14 Aug 2007 06:11:06 -0400
NNTP-Posting-Host: 68.229.79.253
X-Complaints-To: admin@cox.net
X-Trace: newsfe24.lga 1187086267 68.229.79.253 (Tue, 14 Aug 2007 03:11:07 MST)
NNTP-Posting-Date: Tue, 14 Aug 2007 03:11:07 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:746

"numeric" <numeric@att.net> wrote in message
news:L%awi.34785$ax1.29853@bgtnsc05-news.ops.worldnet.att.net...
>I am designing a broadband radio with all decoders implemented in software.
> So far I have developed AM, FM, SSB, CW and DRM (digital radio) software
> methods for reception. I would also like to include iBiquity digital for
> the
> AM and FM bands. My guess is that IBOC is a variation of OFDM
> transmission,
> but so far the details seem deliberately evasive. Any one with more
> details?
>
> I think that IBOC is headed for oblivion. Would like to see how it
> performs
> before it dies. There are no commercial radios that I would want to buy
> for
> HD radio, they all seem like a mind-numbing waste of money. My only
> interest
> is a home brew software version integrated into a multimode receiver.
>
>

Seems to be proprietary technology. Imagine that! The US government

literally giving away public airwaves; that means they will have
licensing fees for the transmitting equipment, and any receiver made
that will work will IBOC. Wonder where this leaves the
experimenter?

```
From 6135972381654275526
X-Google-Thread: 106d41,e25f8e7e7f7cc3a1
X-Google-Thread: 108122,5f4b546f0161ebac
X-Google-Thread: fc2a5,5f4b546f0161ebac
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q3g2000prf.googlegroups.com!not-for-
mail
From:  Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax has Arrived... Introductory Priced on Ebay
Date: Tue, 14 Aug 2007 04:42:36 -0700
Organization: http://groups.google.com
Lines: 17
Message-ID: <1187091756.189812.15180@q3g2000prf.googlegroups.com>
References: <1186168563.032053.11960@i13g2000prf.googlegroups.com>
   <46b3b6e5_3@mk-nntp-2.news.uk.tiscali.com>
   <1186231447.136481.50550@q3g2000prf.googlegroups.com>
   <u8gkb3di4k2jc329q4l96h2la6ba8kcm67@4ax.com>
   <1186615639.897400.127530@i13g2000prf.googlegroups.com>
   <rb6mb31ubltji64j2lcnflr3an2gp8n7sb@4ax.com>
   <de6mb3lhn4h14j4mmlblmqtsu6h9sum2mp@4ax.com>
   <1186932633.661667.170370@j4g2000prf.googlegroups.com>
   <46bfa624$0$25252$88260bb3@free.teranews.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1187091756 9565 127.0.0.1 (14 Aug 2007 11:42:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 14 Aug 2007 11:42:36 +0000 (UTC)
In-Reply-To: <46bfa624$0$25252$88260bb3@free.teranews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q3g2000prf.googlegroups.com; posting-host=216.203.30.4;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.cb:2680 rec.radio.amateur.equipment:728
rec.radio.amateur.homebrew:747
```

On Aug 12, 8:17 pm, "21W2319" <21W2...@HFint.org> wrote:

> "Telstar Electronics" <briangrif...@sbcglobal.net> wrote in message
>
> news:1186932633.661667.170370@j4g2000prf.googlegroups.com...> On Aug 9, 8:43 am,
M...@TayleorRobesin.org wrote:

> >> "one useless man is disgrace 2 become a law firm 3 or more become a
> >> congress"
>
> > I think this should really read...
>
> > "one useless post is disgrace 2 become a nuisance 3 or more become a
> > CB NG"
>
> INDEED!!!!!!!!!

LOL... just having a little fun with the little kids outs here.
www.telstar-electronics.com

From 7954663791305518840
X-Google-Thread: fc2a5,e6b6b070bf313b0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!22g2000hsm.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: TS-530s Finals neutralization
Date: Tue, 14 Aug 2007 06:22:38 -0700
Organization: http://groups.google.com
Lines: 35
Message-ID: <1187097758.436154.267270@22g2000hsm.googlegroups.com>
References: <6vNvi.1387$hK5.1064@trndny02><nc6wi.1578$jU4.1482@trnddc02>
   <Su6wi.77848$g86.33480@newsfe14.lga>
   <T37wi.2045$jU4.1273@trnddc02>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1187097758 31893 127.0.0.1 (14 Aug 2007 13:22:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 14 Aug 2007 13:22:38 +0000 (UTC)
In-Reply-To: <T37wi.2045$jU4.1273@trnddc02>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 22g2000hsm.googlegroups.com; posting-host=170.121.15.35;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:748

On Aug 13, 8:55 pm, "KB3IBT Dan K" <dan...@email.com> wrote:
> Oh, wow, thanks for the explanation Uncle Peter. I really appreciate it! I'm
> gonna stick with new tubes. I hope my TS-530 will be able to tune up. Its
> been sitting almost a year collectin dust next to my beloved TS-870.
> I tried tuning the 530 this past Sunday and it wouldn't budge. Nothing at
> all. It still receives pretty good.

It's not so obvious that a transmitter that doesn't "budge" obviously needs new finals. If the last time the transmitter was used there was a big puff of smoke from the final compartment and a lot of blue flashing, maybe, but I've smoked far more plate chokes and HV coupling or bypass caps than finals over the years.

Does it show any plate current at all? The finals are biased for AB1 or so and probably should draw 50 mA or so (see your manual for details) when keyed up and no signal. If so, as you tweak the bias (not sure where it is in a TS-530 but there must be a final bias pot) does the current behave semi-linearly?

If you have bias which behaves right but no signal out, I'd suspect something in the drivers, not the finals.

If you're sucking major current when there's no signal, then the tubes might be gassy or maybe the screen current is out of whack or you've got some super-nasty parasitics (which actually comes back to the neutralization you asked about).

If the bias isn't behaving right, I'd suspect plate choke/bias circuitry/screen supply/plate supply.

If it sucks current but fails to load up, then a bad coupling capacitor or bad bandswitch or pi-network variables.

Tim.

```
From -8980217977888848747
X-Google-Thread: fc2a5,e6b6b070bf313b0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!22g2000hsm.googlegroups.com!not-for-mail
From:  Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: TS-530s Finals neutralization
Date: Tue, 14 Aug 2007 06:27:08 -0700
Organization: http://groups.google.com
Lines: 14
Message-ID: <1187098028.169146.279110@22g2000hsm.googlegroups.com>
References: <6vNvi.1387$hK5.1064@trndny02><nc6wi.1578$jU4.1482@trnddc02>
   <Su6wi.77848$g86.33480@newsfe14.lga>
   <T37wi.2045$jU4.1273@trnddc02>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1187098028 28421 127.0.0.1 (14 Aug 2007 13:27:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 14 Aug 2007 13:27:08 +0000 (UTC)
In-Reply-To: <T37wi.2045$jU4.1273@trnddc02>
```

User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 22g2000hsm.googlegroups.com; posting-host=170.121.15.35;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:749

On Aug 13, 8:55 pm, "KB3IBT Dan K" <dan...@email.com> wrote:
> Oh, wow, thanks for the explanation Uncle Peter. I really appreciate it! I'm
> gonna stick with new tubes. I hope my TS-530 will be able to tune up. Its
> been sitting almost a year collectin dust next to my beloved TS-870.
> I tried tuning the 530 this past Sunday and it wouldn't budge. Nothing at
> all. It still receives pretty good.

I gave you a lot of places to look in my other post, but suddenly the
"Nothing at all" rings a very clear bell. Replace the driver, a
12BY7A, first before suspecting the finals, and especially if the bias
current in the finals is doing the right thing.

Tim.

From 4682222615035556827
X-Google-Thread: fc2a5,e6b6b070bf313b0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!aioe.org!not-for-mail
From: Steve H <mycall@tfif.co.ukk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: TS-530s Finals neutralization
Date: Tue, 14 Aug 2007 16:53:23 +0100
Organization: Aioe.org NNTP Server
Lines: 19
Message-ID: <f9sj5g$lfk$1@aioe.org>
References: <6vNvi.1387$hK5.1064@trndny02><nc6wi.1578$jU4.1482@trnddc02>
<Su6wi.77848$g86.33480@newsfe14.lga>   <T37wi.2045$jU4.1273@trnddc02>
<1187098028.169146.279110@22g2000hsm.googlegroups.com>
NNTP-Posting-Host: hlRcVUDEfFwjpqjEAnCLPA.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
In-Reply-To:
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
Xref: g2news2.google.com rec.radio.amateur.homebrew:750

Tim Shoppa wrote:
> On Aug 13, 8:55 pm, "KB3IBT Dan K" <dan...@email.com> wrote:
>> Oh, wow, thanks for the explanation Uncle Peter. I really appreciate it! I'm
>> gonna stick with new tubes. I hope my TS-530 will be able to tune up. Its
>> been sitting almost a year collectin dust next to my beloved TS-870.

>> I tried tuning the 530 this past Sunday and it wouldn't budge. Nothing at
>> all. It still receives pretty good.
>
> I gave you a lot of places to look in my other post, but suddenly the
> "Nothing at all" rings a very clear bell. Replace the driver, a
> 12BY7A, first before suspecting the finals, and especially if the bias
> current in the finals is doing the right thing.
>
> Tim.
>

May be worth checking the SG switch, I've had a few in for repair that
had it switched off.

Steve H

From 8911303075196498796
X-Google-Thread: fc2a5,e6b6b070bf313b0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews5.bellsouth.net.POSTED!d50ae390!not-for-mail
Message-ID: <46C1D05E.92A3AE76@yahoo.com>
From: jim <james27613@yahoo.com>
X-Mailer: Mozilla 4.79 [en] (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: TS-530s Finals neutralization
References: <6vNvi.1387$hK5.1064@trndny02>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 31
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace: ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcbooplomhlgfjfbkcahlponlddmgkgdimolndcglnmgnogbbleibpeclalcloiihiplnpbiijkjchhbammbfgpkefligfahongglpmoenljlcafhlni
NNTP-Posting-Date: Tue, 14 Aug 2007 11:55:14 EDT
Organization: BellSouth Internet Group
Date: Tue, 14 Aug 2007 11:55:10 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:751

Hi,

can you check the HV reading from teh front meter,
s/b 850-900v if half that electrolytic cap(s) need replacement.
digikey has modern caps that fit nice, info in the yahoo forum below.

you may not have a tube problem, could be something else,
as posted, more info is needed to help figure it out.

also, is screen grid switch turned on (black switch at rear of radio).
it is easy to slide it off if radio is moved and no output if it is off.

avoid the imported tubes, others have had instant tube failures using
made in china tubes and this also takes out cathode resistors.
rf parts and www.surplusales.com have us made tubes,
surplussales has tube specials along with the driver tube.

join other ts-5xx/8xx fans here,

http://groups.yahoo.com/group/TS-520_820_530_830/

lot of info in file section, messages are public access.
tube neutralization info in the public and file sections.

these radios don't like to sit unused, most of the time they need
a cleaning of the band switches and you are on the air again.

could be driver tube, always change it first (save the old driver
for use in another radio) before the finals.

73 james

From -3134783415820696126
X-Google-Thread: fc2a5,e6b6b070bf313b0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!204.71.34.3!newsfeed.cwix.com!
newsfeed.vmunix.org!peer-uk.news.demon.net!kibo.news.demon.net!news.demon.co.uk!
demon!g3ohx.demon.co.uk!IanJacksonRemoveThisBit
From: Ian Jackson <IanJacksonRemoveThisBit@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: TS-530s Finals neutralization
Date: Tue, 14 Aug 2007 16:58:35 +0100
Lines: 30
Message-ID: <a7q2TrDrEdwGFwz6@g3ohx.demon.co.uk>
References: <6vNvi.1387$hK5.1064@trndny02> <nc6wi.1578$jU4.1482@trnddc02>
 <Su6wi.77848$g86.33480@newsfe14.lga> <T37wi.2045$jU4.1273@trnddc02>
 <1187098028.169146.279110@22g2000hsm.googlegroups.com>
Reply-To: Ian Jackson <IanJackson@REMOVE-THIS-BITg3ohx.demon.co.uk>
NNTP-Posting-Host: g3ohx.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1187107119 22095 80.176.138.122 (14 Aug 2007 15:58:39
GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Tue, 14 Aug 2007 15:58:39 +0000 (UTC)
User-Agent: Turnpike/6.06-S (<PcQqW+vHKPTm9NCjjJPoeggxXu>)
Xref: g2news2.google.com rec.radio.amateur.homebrew:752

In message <1187098028.169146.279110@22g2000hsm.googlegroups.com>, Tim

```
Shoppa <shoppa@trailing-edge.com> writes
>On Aug 13, 8:55 pm, "KB3IBT Dan K" <dan...@email.com> wrote:
>> Oh, wow, thanks for the explanation Uncle Peter. I really appreciate it! I'm
>> gonna stick with new tubes. I hope my TS-530 will be able to tune up. Its
>> been sitting almost a year collectin dust next to my beloved TS-870.
>> I tried tuning the 530 this past Sunday and it wouldn't budge. Nothing at
>> all. It still receives pretty good.
>
>I gave you a lot of places to look in my other post, but suddenly the
>"Nothing at all" rings a very clear bell. Replace the driver, a
>12BY7A, first before suspecting the finals, and especially if the bias
>current in the finals is doing the right thing.
>
>Tim.
>

If the TS530 is like the 520, one sign that the PA stage may need
neutralizing is that when, during tune-up, the maximum power output does
not coincide with the plate current dip. Another side-effect may be that
the receive pre-selector peak does not coincide with the transmit RF
drive peak.

If all seems more-or-less OK with the new tubes, you can probably leave
things alone.

However, if your 530 doesn't tune up at all, you'll need to look for
more than neutralizing (as suggested by Tim).
--
Ian


From -3507384441772484535
X-Google-Thread: fc2a5,e6b6b070bf313b0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
out02b.usenetserver.com!news.usenetserver.com!in02.usenetserver.com!
news.usenetserver.com!cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!
trndny07.POSTED!e347066c!not-for-mail
From: "KB3IBT Dan K" <dankal@email.com>
Newsgroups: rec.radio.amateur.homebrew
References: <6vNvi.1387$hK5.1064@trndny02>
Subject: Re: TS-530s Finals neutralization
Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <4uswi.565$eL.363@trndny07>
Date: Wed, 15 Aug 2007 01:16:48 GMT
NNTP-Posting-Host: 72.81.71.45
X-Complaints-To: abuse@verizon.net
```

```
X-Trace: trndny07 1187140608 72.81.71.45 (Tue, 14 Aug 2007 21:16:48 EDT)
NNTP-Posting-Date: Tue, 14 Aug 2007 21:16:48 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:753

Hey Guys,
Thanks for all the suggestions.
Well, the SG switch is in off position. Just like the manual says, I'm
drawing 60ma when the meter is on the LP position. But I still can't get a
drive, plate, or load reading on the meter when I ry to tune it up.
One thing I didnt consider is the driver tube?? I thought that was for
receiving only! (LOL) I think when I get this figured out I will appreciate
tube technology alittle more.
I cant waite to check out the TX-XXX groups.
Again, Thanks


"KB3IBT Dan K" <dankal@email.com> wrote in message
news:6vNvi.1387$hK5.1064@trndny02...
> Hello All,
> I was told by a ham during a QSO that if I buy a matched pair of 6146b's,
> I would not need to neutralize them?? Is that true?
>
> Thanks KB3IBT
>




From 2983760458284007867
X-Google-Thread: fc2a5,e6b6b070bf313b0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!out02b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny04.POSTED!e347066c!
not-for-mail
From: "KB3IBT Dan K" <dankal@email.com>
Newsgroups: rec.radio.amateur.homebrew
References: <6vNvi.1387$hK5.1064@trndny02> <4uswi.565$eL.363@trndny07>
Subject: Re: TS-530s Finals neutralization
Lines: 29
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <Zxswi.425$Be.384@trndny04>
Date: Wed, 15 Aug 2007 01:20:57 GMT
NNTP-Posting-Host: 72.81.71.45
X-Complaints-To: abuse@verizon.net
X-Trace: trndny04 1187140857 72.81.71.45 (Tue, 14 Aug 2007 21:20:57 EDT)
NNTP-Posting-Date: Tue, 14 Aug 2007 21:20:57 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:754
```

Sorry, I meant the SG switch is ON....OOOpps!

"KB3IBT Dan K" <dankal@email.com> wrote in message
news:4uswi.565$eL.363@trndny07...
> Hey Guys,
> Thanks for all the suggestions.
> Well, the SG switch is in off position. Just like the manual says, I'm
> drawing 60ma when the meter is on the LP position. But I still can't get a
> drive, plate, or load reading on the meter when I ry to tune it up.
> One thing I didnt consider is the driver tube?? I thought that was for
> receiving only! (LOL) I think when I get this figured out I will
> appreciate tube technology alittle more.
> I cant waite to check out the TX-XXX groups.
> Again, Thanks
>
>
> "KB3IBT Dan K" <dankal@email.com> wrote in message
> news:6vNvi.1387$hK5.1064@trndny02...
>> Hello All,
>> I was told by a ham during a QSO that if I buy a matched pair of 6146b's,
>> I would not need to neutralize them?? Is that true?
>>
>> Thanks KB3IBT
>>
>
>

From -1369485973182556176
X-Google-Thread: fc2a5,e6b6b070bf313b0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe18.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <6vNvi.1387$hK5.1064@trndny02> <4uswi.565$eL.363@trndny07>
<Zxswi.425$Be.384@trndny04>
Subject: Re: TS-530s Finals neutralization
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <QKswi.181376$5y.81878@newsfe18.lga>

Date: Tue, 14 Aug 2007 21:34:38 -0400
NNTP-Posting-Host: 68.229.79.253
X-Complaints-To: admin@cox.net
X-Trace: newsfe18.lga 1187141680 68.229.79.253 (Tue, 14 Aug 2007 18:34:40 MST)
NNTP-Posting-Date: Tue, 14 Aug 2007 18:34:40 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:755

"KB3IBT Dan K" <dankal@email.com> wrote in message
news:Zxswi.425$Be.384@trndny04...
> Sorry, I meant the SG switch is ON....OOOpps!
>
>
If you have the quiescent 60 mA idling current, it has to be something
else besides the finals. There's no drive, you'd see the plate current
go up when peaking the preselector.
A dirty switch contact, etc. Something simple I'd suspect. I doubt the
driver tube went bad sitting... Also, it is probably more "touchy"
to replace than the finals; I've seen big differences between American
and imported 12BY7 tubes! (I assume that is what they use, IIRC.)

Pete

From 8098336439297829445
X-Google-Thread: 106d41,e25f8e7e7f7cc3a1
X-Google-Thread: 108122,5f4b546f0161ebac
X-Google-Thread: fc2a5,5f4b546f0161ebac
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: Mark@TayleorRobesin.org
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax has Arrived... Introductory Priced on Ebay
Date: Tue, 14 Aug 2007 13:48:58 -0400
Message-ID: <1oq3c3lvesb00kardpdp5uf32eao1tsod4@4ax.com>
References: <46b3b6e5_3@mk-nntp-2.news.uk.tiscali.com>
<1186231447.136481.50550@q3g2000prf.googlegroups.com>
<u8gkb3di4k2jc329q4l96h2la6ba8kcm67@4ax.com>
<1186615639.897400.127530@i13g2000prf.googlegroups.com>
<rb6mb31ubltji64j2lcnflr3an2gp8n7sb@4ax.com>
<de6mb3lhn4h14j4mmlblmqtsu6h9sum2mp@4ax.com>
<1186932633.661667.170370@j4g2000prf.googlegroups.com>
<46bfa624$0$25252$88260bb3@free.teranews.com>
<1187091756.189812.15180@q3g2000prf.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
Lines: 32
NNTP-Posting-Date: 14 Aug 2007 16:57:26 GMT
X-Complaints-To: abuse@teranews.com
X-Original-Lines: 29
Xref: g2news2.google.com rec.radio.cb:2708 rec.radio.amateur.equipment:742 rec.radio.amateur.homebrew:756

On Tue, 14 Aug 2007 04:42:36 -0700, Telstar Electronics
<briangriffey@sbcglobal.net> wrote:

>On Aug 12, 8:17 pm, "21W2319" <21W2...@HFint.org> wrote:
>> "Telstar Electronics" <briangrif...@sbcglobal.net> wrote in message
>>
>> news:1186932633.661667.170370@j4g2000prf.googlegroups.com...> On Aug 9, 8:43 am, M...@TayleorRobesin.org wrote:
>> >> "one useless man is disgrace 2 become a law firm 3 or more become a
>> >> congress"
>>
>> > I think this should really read...
>>
>> > "one useless post is disgrace 2 become a nuisance 3 or more become a
>> > CB NG"
>>
>> INDEED!!!!!!!!!
>
>LOL... just having a little fun with the little kids outs here.
>www.telstar-electronics.com
they do abound

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/

G

--
Posted via a free Usenet account from http://www.teranews.com

From 5735173790253824815
X-Google-Thread: fc2a5,608ea0e0fbfe87e1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: IBOC decoder?
Date: Wed, 15 Aug 2007 00:16:34 -0700

User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.08.15.07.16.31.926649@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <L%awi.34785$ax1.29853@bgtnsc05-news.ops.worldnet.att.net>
<%cfwi.4565$q_5.4051@newsfe24.lga>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 34
Organization: Octanews
NNTP-Posting-Date: 15 Aug 2007 02:16:36 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:757

On Tue, 14 Aug 2007 06:11:06 -0400, Uncle Peter wrote:

>
> "numeric" <numeric@att.net> wrote in message
> news:L%awi.34785$ax1.29853@bgtnsc05-news.ops.worldnet.att.net...
>>I am designing a broadband radio with all decoders implemented in software.
>> So far I have developed AM, FM, SSB, CW and DRM (digital radio) software
>> methods for reception. I would also like to include iBiquity digital for
>> the
>> AM and FM bands. My guess is that IBOC is a variation of OFDM
>> transmission,
>> but so far the details seem deliberately evasive. Any one with more
>> details?
>>
>> I think that IBOC is headed for oblivion. Would like to see how it
>> performs
>> before it dies. There are no commercial radios that I would want to buy
>> for
>> HD radio, they all seem like a mind-numbing waste of money. My only
>> interest
>> is a home brew software version integrated into a multimode receiver.
>>
>>
>
> Seems to be proprietary technology. Imagine that! The US government
> literally giving away public airwaves; that means they will have
> licensing fees for the transmitting equipment, and any receiver made
> that will work will IBOC. Wonder where this leaves the
> experimenter?

Getting a sore ass, as usual :-(

Yay hackers!

From -5653063455857421106
X-Google-Thread: fcc6e,e79385cc9ceed849,start
X-Google-Thread: fc2a5,e79385cc9ceed849,start

```
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!uns-out.usenetserver.com!
news.usenetserver.com!pc02.usenetserver.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: VSWR Meter and reactance
Date: Wed, 15 Aug 2007 07:09:40 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <a4b17$46c2ecfc$18d6b40c$4008@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 9
X-Trace: a4b1746c2ecfcbd7311a904008
X-Original-Bytes: 1077
Xref: g2news2.google.com rec.radio.amateur.antenna:4724
rec.radio.amateur.homebrew:759

Is it possible for a VSWR meter to read 1 to 1 with reactance at the
antenna?
Ex. If the antenna Z was R= 30 and X= 40 would the meter read 1 to 1?
Or is there a combination of R and X that would give 1 to 1?
                                      Thanks for your answer and
explanations,
                                                                  Mike




From -4075707624168282439
X-Google-Thread: fcc6e,e79385cc9ceed849
X-Google-Thread: fc2a5,e79385cc9ceed849
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
nlpi061.nbdc.sbc.com.POSTED!00eff025!not-for-mail
From: Cecil Moore <nospam@w5dxp.com>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: VSWR Meter and reactance
References: <a4b17$46c2ecfc$18d6b40c$4008@KNOLOGY.NET>
In-Reply-To: <a4b17$46c2ecfc$18d6b40c$4008@KNOLOGY.NET>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 15
```

```
Message-ID: <NsCwi.5598$i85.1701@nlpi061.nbdc.sbc.com>
NNTP-Posting-Host: 76.202.130.127
X-Complaints-To: abuse@prodigy.net
X-Trace: nlpi061.nbdc.sbc.com 1187181485 ST000 76.202.130.127 (Wed, 15 Aug 2007
08:38:05 EDT)
NNTP-Posting-Date: Wed, 15 Aug 2007 08:38:05 EDT
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1: OP\YG\GFEB^UCWDYIBHZOWP@YZOZ@GXOXZ^D]
\YIJYWZUYICD^RAQBKZQTZTX\_I[^G_KGFNON[ZOE_AZNVO^\XGGNTCIRPIJH[@RQKBXLRZ@CD^HKANYVW
@RLGEZEJN@\_WZJBNZYYKVIOR]T]MNMG_Z[YVWSCH_Q[GPC_A@CARQVXDSDA^M]@DRVUM@RBM
Date: Wed, 15 Aug 2007 07:38:06 -0500
Xref: g2news2.google.com rec.radio.amateur.antenna:4725
rec.radio.amateur.homebrew:760
```

amdx wrote:

> Is it possible for a VSWR meter to read 1 to 1 with reactance at the
> antenna?
> Ex. If the antenna Z was R= 30 and X= 40 would the meter read 1 to 1?
> Or is there a combination of R and X that would give 1 to 1?

The SWR at the source is lower than the SWR at the antenna due to losses in the transmission line. 200 feet of RG-58 used on 440 MHz will indicate an SWR very close to 1:1 at the source no matter how reactive the load at the antenna. On a normalized Smith Chart, the SWR "circle" is really a spiral with an end limit of Z = 1.0 + j0 in the center of the chart.

--
73, Cecil http://www.w5dxp.com

```
From -4319084869212681675
X-Google-Thread: fc2a5,608ea0e0fbfe87e1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!out02b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-
in-02.newsfeed.easynews.com!easynews.com!easynews!sn-xt-sjc-02!sn-xt-sjc-08!sn-
post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Doug Smith W9WI <w9wi@invalid.nospam>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: IBOC decoder?
Date: Wed, 15 Aug 2007 08:48:37 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-Id: <pan.2007.08.15.13.48.35.585848@invalid.nospam>
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
References: <L%awi.34785$ax1.29853@bgtnsc05-news.ops.worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@supernews.com
Lines: 24
Xref: g2news2.google.com rec.radio.amateur.homebrew:761
```

On Tue, 14 Aug 2007 05:23:55 +0000, numeric wrote:
> I am designing a broadband radio with all decoders implemented in software.
> So far I have developed AM, FM, SSB, CW and DRM (digital radio) software
> methods for reception. I would also like to include iBiquity digital for the
> AM and FM bands. My guess is that IBOC is a variation of OFDM transmission,
> but so far the details seem deliberately evasive. Any one with more details?
>
> I think that IBOC is headed for oblivion. Would like to see how it performs
> before it dies. There are no commercial radios that I would want to buy for
> HD radio, they all seem like a mind-numbing waste of money. My only interest
> is a home brew software version integrated into a multimode receiver.

There are technical "white papers" on the Ibiquity website, but I don't think they provide enough details to implement a decoder. As other replies have indicated, they consider this proprietary. (I wonder if there are enough details in the patents?) I suspect you're going to find the only way to implement a homebrew IBOC receiver is to acquire an evaluation chipset.

The White Papers confirm that OFDM is used. If I read it properly (and I may well not) the FM scheme uses 180 subcarriers and the AM 108. (in both cases in Hybrid Mode where the analog is still present. Both AM and FM support a full-digital mode with more subcarriers.)

```
From -3142688294929586283
X-Google-Thread: fc2a5,e6b6b070bf313b0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m37g2000prh.googlegroups.com!not-for-
mail
From:  Andrew VK3BFA <ablight@alphalink.com.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: TS-530s Finals neutralization
Date: Wed, 15 Aug 2007 07:02:37 -0700
Organization: http://groups.google.com
Lines: 19
Message-ID: <1187186557.316680.205170@m37g2000prh.googlegroups.com>
References: <6vNvi.1387$hK5.1064@trndny02><4uswi.565$eL.363@trndny07>
   <Zxswi.425$Be.384@trndny04>
   <QKswi.181376$5y.81878@newsfe18.lga>
NNTP-Posting-Host: 218.215.149.69
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1187186558 542 127.0.0.1 (15 Aug 2007 14:02:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 15 Aug 2007 14:02:38 +0000 (UTC)
In-Reply-To: <QKswi.181376$5y.81878@newsfe18.lga>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.6) Gecko/
20070725 Firefox/2.0.0.6,gzip(gfe),gzip(gfe)
```

Complaints-To: groups-abuse@google.com
Injection-Info: m37g2000prh.googlegroups.com; posting-host=218.215.149.69;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:762

On Aug 15, 11:34 am, "Uncle Peter" <radioconnect...@cox.net> wrote:
> "KB3IBT Dan K" <dan...@email.com> wrote in
messagenews:Zxswi.425$Be.384@trndny04...> Sorry, I meant the SG switch is
ON....OOOpps!
>
>

Have you tried tuning up the transmitter as per the instructions in
the owners manual? - first and most obvious thing to do. THEN perhaps
a estimate of fault finding procedure can be worked out......

Until then, guesswork.

Also, the owners manual has a nice section on theory theory of
operation of your radio - it might be helpful if you read it and thus
have a common ground for your queries to the group.

Andrew VK3BFA.

From 7580611924832472452
X-Google-Thread: fcc6e,e79385cc9ceed849
X-Google-Thread: fc2a5,e79385cc9ceed849
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bt.com!news.bt.com.POSTED!
not-for-mail
NNTP-Posting-Date: Wed, 15 Aug 2007 09:46:47 -0500
Reply-To: "Mike Kaliski" <michael.kaliski(remove this)@tesco.net>
From: "Mike Kaliski" <michael.kaliski@tesco.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <a4b17$46c2ecfc$18d6b40c$4008@KNOLOGY.NET>
Subject: Re: VSWR Meter and reactance
Date: Wed, 15 Aug 2007 15:45:30 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <SOydncBI-ddKjF7b4p2dnAA@bt.com>
Lines: 30
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.129.142.186
X-AuthenticatedUsername: NoAuthUser
X-Trace: sv3-

T4Z8So64BSwnqlJchzizNdxvcOlyW3iKruz3iFQzQvX9xiBeljLKFJfZL0WuPo9CQ+W0YXJKHnoE8Lb!
j9Gu0jT6pouzpcB2qzzdrrQMXLldyvN2m0h4gWBV0rkEhiEdFWvn/O1ZGBRYkOMN
X-Complaints-To: abuse@btinternet.com
X-DMCA-Complaints-To: abuse@btinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.antenna:4727 rec.radio.amateur.homebrew:763

"amdx" <amdx@knology.net> wrote in message news:a4b17$46c2ecfc$18d6b40c$4008@KNOLOGY.NET...
> Is it possible for a VSWR meter to read 1 to 1 with reactance at the
> antenna?
> Ex. If the antenna Z was R= 30 and X= 40 would the meter read 1 to 1?
> Or is there a combination of R and X that would give 1 to 1?
> Thanks for your answer and
> explanations,
> Mike
>
Mike

The VSWR meter is showing power reflected back down the line to the meter. If the line is very lossy, like a long length of coax that has been penetrated by water, the reading may well show 1:1 but the radiated power will be zero. On its own, the VSWR meter provides a very useful indication that the antenna system is matched to the output of the transmitter. It is not a guarantee that the system is actually radiating a signal. A simple field strength meter will give an indication that the power supplied via the feeder to the antenna is actually being radiated rather than absorbed.

Cheap VSWR meters can be quite inaccurate when presented with loads which differ from their design impedence. Used with an understanding of their limitations, they are fine for everyday ham use, but something a bit more sophisticated is needed for serious antenna system measurements.

Mike G0ULI

From -7003439355258735246
X-Google-Thread: fcc6e,e79385cc9ceed849
X-Google-Thread: fc2a5,e79385cc9ceed849
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!213.200.89.82.MISMATCH!tiscali!newsfeed1.ip.tiscali.net!draco.tiscalinet.it!news-f2.tiscali.it!not-for-mail
Date: Wed, 15 Aug 2007 16:51:30 +0200
From: "i3hev, mario held" <marioheld@tiscali.it>

User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: it, en-US, eo, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: VSWR Meter and reactance
References: <a4b17$46c2ecfc$18d6b40c$4008@KNOLOGY.NET>
In-Reply-To: <a4b17$46c2ecfc$18d6b40c$4008@KNOLOGY.NET>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 40
Message-ID: <46c3122a$0$21208$5fc30a8@news.tiscali.it>
Organization: Tiscali SpA
NNTP-Posting-Host: 78.12.136.79
X-Trace: 1187189290 news.tiscali.it 21208 78.12.136.79:3104
X-Complaints-To: abuse@tiscali.it
Xref: g2news2.google.com rec.radio.amateur.antenna:4728 rec.radio.amateur.homebrew:764

amdx wrote:

> Is it possible for a VSWR meter to read 1 to 1 with reactance at the
> antenna?...

The vswr is determined by the absolute value of the reflection coefficient, being defined by:

$$\text{vswr} = \frac{1 + |ro|}{1 - |ro|}$$

where the greek letter "ro" indicates the complex reflection coefficient

$$ro = \frac{Z - Zo}{Z + Zo} .$$

So the one and only case in which we can have unity value for vswr is when |ro| = 0, or perfect match. In a * lossless * transmission line, the vswr is the same in every point of the line (this is an easily demonstrable general result, it comes right down from the above expression), so (with normal lines) the answer is definitely no :)

Of course, as correctly pointed out by Cecil, in a lossy line the reflection coefficient decreases as you move along the line away from the termination, and the same happens to the vswr, so that a long lossy line may simulate a good matching also when the matching isn't even near to good (btw, using a lossy coax is an often used trick (especially in microwaves), when you need to give to the generator a seemingly good load).

--
73 es 51 de i3hev, op. mario

Non � Radioamatore, se non gli fuma il saldatore!
- Campagna 2006 "Il Radioamatore non � uno che ascolta la radio"

it.hobby.radioamatori.moderato
http://digilander.libero.it/hamweb
http://digilander.libero.it/esperantovenezia

From -3647129927380439562
X-Google-Thread: fc2a5,8506435466babe4f,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Date: Wed, 15 Aug 2007 18:17:46 +0100
From: G7MJV <gsevenmjv@tiscali.co.uk>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: SMC (YAESU) 545L1
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <46c3359b$1_1@mk-nntp-2.news.uk.tiscali.com>
Lines: 10
X-Original-NNTP-Posting-Host: 79.66.34.82
NNTP-Posting-Host: mk-nntp-2.news.uk.tiscali.com
X-Trace: 15 Aug 2007 18:19:26 +0100, mk-nntp-2.news.uk.tiscali.com
Path: g2news2.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!news.astraweb.com!
newsrouter-eu.astraweb.com!tiscali!newsfeed2.ip.tiscali.net!
212.74.112.120.MISMATCH!mk-nntp-1.news.uk.tiscali.com!mk-
nntp-2.news.uk.tiscali.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:765

Hi Guys

l've got one of these but no info what so ever.

The radio in question is a single channel UHF mobile. The radio is xtal controlled

Any info greatly appreciated

Andy - G7MJV

From -1031962413676228324
X-Google-Thread: fcc6e,e79385cc9ceed849
X-Google-Thread: fc2a5,e79385cc9ceed849
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!57g2000hsv.googlegroups.com!not-for-
mail
From: "JRCCrabtree@gmail.com" <JRCCrabtree@gmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew

```
Subject: Re: VSWR Meter and reactance
Date: Wed, 15 Aug 2007 10:35:45 -0700
Organization: http://groups.google.com
Lines: 39
Message-ID: <1187199345.403507.226480@57g2000hsv.googlegroups.com>
References: <a4b17$46c2ecfc$18d6b40c$4008@KNOLOGY.NET>
NNTP-Posting-Host: 64.12.116.144
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1187199345 5791 127.0.0.1 (15 Aug 2007 17:35:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 15 Aug 2007 17:35:45 +0000 (UTC)
In-Reply-To: <a4b17$46c2ecfc$18d6b40c$4008@KNOLOGY.NET>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-mtc-td07.proxy.aol.com[400C7067] (Prism/1.2.1), HTTP/
1.1 cache-mtc-ac15.proxy.aol.com[400C7490] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: 57g2000hsv.googlegroups.com; posting-host=64.12.116.144;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.antenna:4731
rec.radio.amateur.homebrew:766
```

On Aug 15, 7:09?am, "amdx" <a...@knology.net> wrote:

> Is it possible for a VSWR meter to read 1 to 1 with reactance at the
> antenna?
> Ex. If the antenna Z was R= 30 and X= 40 would the meter read 1 to 1?
> Or is there a combination of R and X that would give 1 to 1?
>   Thanks for your answer and
> explanations,
>   Mike

As others have pointed out, unless the line is lossy, the answer is
no.

Here is a way to calculate SWR from R and X without the complex
arithmetic. It is taken from 'Reflections: transmission lines and
antennas' by Walt Maxwell, 1st ed, page 23-5, or 2nd ed page 'appendix
3-1'.

Let r = R / line impedance
Let x = X / line impedance

b = (1 + r*r + x*x) / r

SWR = (b + SQRT(b*b - 4)) / 2

The minimum value of b is 2 when r = 1 and x = 0

The minimum value of SWR is 1 when b = 2

Hence it can be readily seen that any reactance will cause the the SWR to be greater than 1 at the load..

Just to complete the maths,the modulus of the relection coefficient,
ie mod(p),
= SQRT((b-2) / (b+2))

HTH and 73

John KC0G

From -6816784269559683479
X-Google-Thread: fcc6e,e79385cc9ceed849
X-Google-Thread: fc2a5,e79385cc9ceed849
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!d55g2000hsg.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: VSWR Meter and reactance
Date: Wed, 15 Aug 2007 10:42:28 -0700
Organization: http://groups.google.com
Lines: 36
Message-ID: <1187199748.049507.127810@d55g2000hsg.googlegroups.com>
References: <a4b17$46c2ecfc$18d6b40c$4008@KNOLOGY.NET>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1187199749 6878 127.0.0.1 (15 Aug 2007 17:42:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 15 Aug 2007 17:42:29 +0000 (UTC)
In-Reply-To: <a4b17$46c2ecfc$18d6b40c$4008@KNOLOGY.NET>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.6)
Gecko/20070725 Firefox/2.0.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d55g2000hsg.googlegroups.com; posting-host=192.25.240.225;
posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.antenna:4733
rec.radio.amateur.homebrew:767

On Aug 15, 5:09 am, "amdx" <a...@knology.net> wrote:

> Is it possible for a VSWR meter to read 1 to 1 with reactance at the
> antenna?
> Ex. If the antenna Z was R= 30 and X= 40 would the meter read 1 to 1?
> Or is there a combination of R and X that would give 1 to 1?
> Thanks for your answer and
> explanations,
> Mike

Contrary to what I see in other postings, yes, sure it could. This is very easy to see on the Smith chart. Consider that the meter is calibrated to 50+j0 ohms (which, by the way, it's not guaranteed to be "out of the box" when you first get it!). Consider that connecting the 30+j40 ohm load to the meter are two sections of lossless line. The section connected to the load is 42.1 electrical degrees of 45 ohm line, and the section from there to the SWR meter is 87.7 degrees of 82.5 ohm line. That gives you 50.03-j.01 ohms presented to the meter. Note that 45 ohms is within 10% tolerance of 50 ohms, and 87.7 is a poorly-made 75 ohm line that's out of tolerance. Hey, copper has gotten expensive, and the manufacturer is scrimping to save a few bucks.

Likely the meter is NOT calibrated to 50 ohms, and that would allow a different set of line impedances to achieve a match. With some loads, you only need a single section of line the right length. For example, if you said your meter was calibrated to 50 ohms, and the load was 67+j28 ohms, you'd get a 1:1 SWR reading with 42.6 degrees of 75 ohm line. Note that the actual SWR on that line is NOT 1:1. SWR meters tell you the line SWR only if they are calibrated to the line impedance. Reg Edwards always used to rail against calling them SWR meters, but to me, the name is fine if you understand the need for calibration, the need to apply them properly.

Cheers,
Tom

From -1714296142268000019
X-Google-Thread: fc2a5,8506435466babe4f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!news.kjsl.com!
ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SMC (YAESU) 545L1
Date: 15 Aug 2007 17:56:40 GMT
Organization: The National Capital FreeNet
Lines: 15
Message-ID: <f9veoo$pj7$1@theodyn.ncf.ca>
References: <46c3359b$1_1@mk-nntp-2.news.uk.tiscali.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1187200600 26215 134.117.136.48 (15 Aug 2007 17:56:40 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 15 Aug 2007 17:56:40 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:768

G7MJV (gsevenmjv@tiscali.co.uk) writes:
> Hi Guys
>
> l've got one of these but no info what so ever.

>

If it's a commercial rig, and it is, the questin belongs elsewhere.

Perhaps rec.radio.amateur.equipment if it's a ham rig. Elsewhere if not.

There seems to be an increasingly sloppiness about newsgroups, with way too many people not bothering to find the most relevant one, so they either cross-post or just post wherever they feel like it.

Michael VE2BVW

From -7669046062386003388
X-Google-Thread: fcc6e,e79385cc9ceed849
X-Google-Thread: fc2a5,e79385cc9ceed849
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out01a.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!in03.usenetserver.com!news.usenetserver.com!pc02.usenetserver.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <a4b17$46c2ecfc$18d6b40c$4008@KNOLOGY.NET>
Subject: Re: VSWR Meter and reactance
Date: Wed, 15 Aug 2007 14:38:46 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <2a6b6$46c35635$18d6b40c$19281@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 41
X-Trace: 2a6b646c35635bd7311a919281
Xref: g2news2.google.com rec.radio.amateur.antenna:4735 rec.radio.amateur.homebrew:769

"amdx" <amdx@knology.net> wrote in message news:a4b17$46c2ecfc$18d6b40c$4008@KNOLOGY.NET...

> Is it possible for a VSWR meter to read 1 to 1 with reactance at the
> antenna?
> Ex. If the antenna Z was R= 30 and X= 40 would the meter read 1 to 1?
> Or is there a combination of R and X that would give 1 to 1?
>   Thanks for your answer and
> explanations,
>   Mike

The reason the question arises.
I've build a 2.4Ghz Patch antenna. It has gain. I move the feedpoint to

change the
input impedance. Now it has more signal strength, so I move in the same
direction again
and it shows even more signal strength, 2 more adjustments more signal, 1
more move
and signal strength looks like it's starting to go down in signal strength.
(These moves were about .060" each.)
Now I see a VSWR meter at http://pe2er.nl/wifiswr/
I wonder if this can help me get a handle on adjusting for proper impedance?
The reason I want 50 ohms is because I want to build an array of 4 Patches.
The 50 ohms is important to impedance matching with 1/4 wavelength coax.
I'm using this site as info for the matching and connections.
http://www.darc.de/distrikte/g/T_ATV/Hybrid-Double-Quad-Array-GB.pdf
Yes, I'm using Patches instead of Biquads.

Thanks, Mike

PS. What do you think about the antenna spacing?

So now the problem I don't know what the input impedance is.

From -6956663012127152462
X-Google-Thread: fc2a5,8506435466babe4f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!sn-xt-sjc-04!sn-xt-sjc-06!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SMC (YAESU) 545L1
Date: Wed, 15 Aug 2007 14:41:09 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13c6lkagu5bvi10@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <46c3359b$1_1@mk-nntp-2.news.uk.tiscali.com> <f9veoo$pj7$1@theodyn.ncf.ca>
In-Reply-To: <f9veoo$pj7$1@theodyn.ncf.ca>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 21

Xref: g2news2.google.com rec.radio.amateur.homebrew:770

Michael Black wrote:

> G7MJV (gsevenmjv@tiscali.co.uk) writes:
>
>>Hi Guys
>>
>>l've got one of these but no info what so ever.

<snip>

> There seems to be an increasingly sloppiness about newsgroups, with
> way too many people not bothering to find the most relevant one, so
> they either cross-post or just post wherever they feel like it.

Perhaps the OP could have been more verbose, but I interpret
his query in the context of a potential homebrew project utilizing
the rig as a basis, ergo the query is on topic...

Regards,

Michael

From 4229894817146519327
X-Google-Thread: fc2a5,42bd35f5f8c71f55,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out01b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!feeder.nmix.net!
216.184.2.11.MISMATCH!iruka!not-for-mail
From: msix@nmia.com
Newsgroups: rec.radio.amateur.homebrew
Subject: FS: HB stuff de W7ZFB
Date: Wed, 15 Aug 2007 19:50:19 +0000 (UTC)
Organization: Southwest Cyberport
Lines: 26
Message-ID: <f9vldr$peq$1@iruka.swcp.com>
NNTP-Posting-Host: plato.nmia.com
X-Trace: iruka.swcp.com 1187207419 26074 64.42.128.47 (15 Aug 2007 19:50:19 GMT)
X-Complaints-To: usenet@iruka.swcp.com
NNTP-Posting-Date: Wed, 15 Aug 2007 19:50:19 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.homebrew:771

NOS HBR tuning cap, 3 section, 25pF per section,
2.5 x 1.5 x 1.25, 1/4 shaft 1.5 inches long. $17 pp 48

NOS tuning cap, 4 section, 40pF per section,
3 x 1.5 x 1.25, 1/4 shaft 1.25 inches long, $15 pp 48

NOS National HRT knob as used on National dials,

black plastic 2 1/8 diameter, 1 inch deep,
annular chrome front insert, takes 1/4 inch shaft
$15 pp 48

NIB Millen AO-12 right angle drive, 1 x 1 x 1/2 inches,
1/8 shafts, mounts in 1/4 inch hole
$15 pp 48

National SCN Dial Parts
Two each SCN reduction drives less output coupler
Original unused dial scale
Original acetate dial cover
SCN mounting sheet w/picture and dimensions
No dial bezel
$16 pp 48

73 John
n

```
From -7693180805124965846
X-Google-Thread: fcc6e,e79385cc9ceed849
X-Google-Thread: fc2a5,e79385cc9ceed849
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 15 Aug 2007 15:20:06 -0500
From: Richard Clark <kb7qhc@comcast.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: VSWR Meter and reactance
Date: Wed, 15 Aug 2007 13:18:21 -0700
Message-ID: <rfn6c3puqfc3dnlaob8t1dvpb001oubqln@4ax.com>
References: <a4b17$46c2ecfc$18d6b40c$4008@KNOLOGY.NET>
<2a6b6$46c35635$18d6b40c$19281@KNOLOGY.NET>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 39
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 67.168.144.41
X-Trace: sv3-UI8AH998/56r0q1gEn/S8hZR+6vlJ5LCOlfkT4Gg/
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p325t7+rjMhZxAev0SEeOn4CsvOP/M6TiRa2gF6BmPaoy+u4fe!QF1rkyZZiXpBY2AyQ0R4fZaQ9XE=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.antenna:4738
```

```
rec.radio.amateur.homebrew:772

On Wed, 15 Aug 2007 14:38:46 -0500, "amdx" <amdx@knology.net> wrote:

>I've build a 2.4Ghz Patch antenna. It has gain. I move the feedpoint to change
the
>input impedance. Now it has more signal strength, so I move in the same direction
again
>and it shows even more signal strength, 2 more adjustments more signal, 1 more
move
>and signal strength looks like it's starting to go down in signal strength.

Hi Mike,

Looks like you found away to get a low SWR (does it really matter how
much it is if you can't improve the output?).

>(These moves were about .060" each.)
>  Now I see a VSWR meter at   http://pe2er.nl/wifiswr/
>I wonder if this can help me get a handle on adjusting for proper impedance?

It looks like a pretty good design.  Remember to observe the power
limit.

>The reason I want 50 ohms is because I want to build an array of 4 Patches.
>The 50 ohms is important to impedance matching with 1/4 wavelength coax.
>I'm using this site as info for the matching and connections.
> http://www.darc.de/distrikte/g/T_ATV/Hybrid-Double-Quad-Array-GB.pdf
>Yes, I'm using Patches instead of Biquads.

The element lengths will vary (as will the pattern to some degree).

>PS. What do you think about the antenna spacing?

You should stick to THOSE shown on the previous link.

>  So now the problem I don't know what the input impedance is.

You've got the plans for a good SWR meter, let it go at that.  You
could probably build it faster than waiting for the final benediction
here.

73's
Richard Clark, KB7QHC


From -4451398274800735572
X-Google-Thread: fcc6e,e79385cc9ceed849
X-Google-Thread: fc2a5,e79385cc9ceed849
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!out02b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
```

in03.usenetserver.com!news.usenetserver.com!pc02.usenetserver.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <a4b17$46c2ecfc$18d6b40c$4008@KNOLOGY.NET>
<2a6b6$46c35635$18d6b40c$19281@KNOLOGY.NET>
<rfn6c3puqfc3dnlaob8t1dvpb001oubqln@4ax.com>
Subject: Re: VSWR Meter and reactance
Date: Wed, 15 Aug 2007 16:12:29 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <87be3$46c36c35$18d6b40c$32327@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 80
X-Trace: 87be346c36c35bd7311a932327
Xref: g2news2.google.com rec.radio.amateur.antenna:4741
rec.radio.amateur.homebrew:773

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:rfn6c3puqfc3dnlaob8t1dvpb001oubqln@4ax.com...
> On Wed, 15 Aug 2007 14:38:46 -0500, "amdx" <amdx@knology.net> wrote:
>
>>I've build a 2.4Ghz Patch antenna. It has gain. I move the feedpoint to
>>change the
>>input impedance. Now it has more signal strength, so I move in the same
>>direction again
>>and it shows even more signal strength, 2 more adjustments more signal, 1
>>more move
>>and signal strength looks like it's starting to go down in signal
>>strength.
>
> Hi Mike,
>
> Looks like you found away to get a low SWR (does it really matter how
> much it is if you can't improve the output?).

Oh, there's always a but,
I cut the foil to the antenna in a wifi adapter and soldered a 2" piece of
coax to the
foil and ground, my Patch is at the other end. The wifi adapter is a dongle
mounted
at the antenna. See Picture at;
http://www.tp-link.com/products/product_des.asp?id=47
Now the question is: Is the wifi adapter output really 50 ohms? If it's
not 50 ohms
then I need not attempt impedance matching with 1/4 Lambda length coax.
I searched for several hours looking for specs on the RF chip in the wifi
adapter

without any success.
>
>>(These moves were about .060" each.)
>> Now I see a VSWR meter at   http://pe2er.nl/wifiswr/
>>I wonder if this can help me get a handle on adjusting for proper
>>impedance?
>
> It looks like a pretty good design. Remember to observe the power
> limit.
>
>>The reason I want 50 ohms is because I want to build an array of 4
>>Patches.
>>The 50 ohms is important to impedance matching with 1/4 wavelength coax.
>>I'm using this site as info for the matching and connections.
>> http://www.darc.de/distrikte/g/T_ATV/Hybrid-Double-Quad-Array-GB.pdf
>>Yes, I'm using Patches instead of Biquads.
>
> The element lengths will vary (as will the pattern to some degree).
>
>>PS. What do you think about the antenna spacing?
>
> You should stick to THOSE shown on the previous link.
>
>> So now the problem I don't know what the input impedance is.
>
> You've got the plans for a good SWR meter, let it go at that. You
> could probably build it faster than waiting for the final benediction
> here.
>
> 73's
> Richard Clark, KB7QHC

 I don't mind waiting, I don't have any parts for the VSWR meter.
(I was looking for confirmation that it would be useful.)
  Regarding the spacing; The literature I've seen shows spacing of
0.2, 0.3 or 0.4 Lambda before grating lobes form. But the Patch is 0.5
Lambda wide so you can't get them closer than 0.5 Lambda.
Here's one source;
http://www.orbanmicrowave.com/The_Basics_of_Antenna_Arrays.pdf
 At this point I have a working Patch with good signal strength, so now I'm
just trying to see if I can improve on it, The project has got complicated because
the only measurement tool I have is the software signal strength meter that came
with the wifi adapter card.
Thanks for your input,
Mike

From 8898646736763820124
X-Google-Thread: fcc6e,e79385cc9ceed849

X-Google-Thread: fc2a5,e79385cc9ceed849
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 15 Aug 2007 16:35:47 -0500
From: Richard Clark <kb7qhc@comcast.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: VSWR Meter and reactance
Date: Wed, 15 Aug 2007 14:34:03 -0700
Message-ID: <oir6c3puku61iia0ck6n13lsnj63fbj2fe@4ax.com>
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<rfn6c3puqfc3dnlaob8t1dvpb001oubqln@4ax.com>
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MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
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Lines: 46
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.antenna:4746
rec.radio.amateur.homebrew:774

On Wed, 15 Aug 2007 16:12:29 -0500, "amdx" <amdx@knology.net> wrote:

> Now the question is: Is the wifi adapter output really 50 ohms? If it's
>not 50 ohms
>then I need not attempt impedance matching with 1/4 Lambda length coax.

Hi Mike,

There are very, very, very few antenna designs that arrive out of the box with 50 Ohms Z. You usually have to manipulate something (feed point or linear loading, or coupling between elements or other radiators) to get it.

The good thing about microwaves is that you can build and test so quickly - and throw away what doesn't work. This isn't like you are making jewelry after all.

The scale of construction is one you can get your arms around at the
kitchen table. If someone reliable built one and documented it enough
(both of these provisos are, admittedly, built on a LOT of trust);
then you don't need any instrumentation at all.

>I searched for several hours looking for specs on the RF chip in the wifi
>adapter without any success.

It sometimes takes some deep digging.

> Regarding the spacing; The literature I've seen shows spacing of
>0.2, 0.3 or 0.4 Lambda before grating lobes form. But the Patch is 0.5
>Lambda wide so you can't get them closer than 0.5 Lambda.
>Here's one source;
>http://www.orbanmicrowave.com/The_Basics_of_Antenna_Arrays.pdf

Pretty tedious stuff, that. EZNEC can do it all in real time - even
the free version is sufficient for your purposes. For one, don't
confuse matching with the radiation lobes - those issues are separable
and you can ignore matching to examine lobes.

> At this point I have a working Patch with good signal strength, so now I'm
>just trying to see if I can improve on it,

Give yourself the benefit of the doubt and just move forward - the
rest is analysis paralysis.

73's
Richard Clark, KB7QHC

From -3972144328986994477
X-Google-Thread: fcc6e,e79385cc9ceed849
X-Google-Thread: fc2a5,e79385cc9ceed849
X-Google-Attributes: gidfcc6e,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
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NNTP-Posting-Date: Wed, 15 Aug 2007 21:05:22 -0500
From: "Tam/WB2TT" <t-tammaru@c0mca$t.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
References: <a4b17$46c2ecfc$18d6b40c$4008@KNOLOGY.NET>
<2a6b6$46c35635$18d6b40c$19281@KNOLOGY.NET>
<rfn6c3puqfc3dnlaob8t1dvpb001oubqln@4ax.com>
<87be3$46c36c35$18d6b40c$32327@KNOLOGY.NET>
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Date: Wed, 15 Aug 2007 22:05:24 -0400
X-Priority: 3
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X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response

Message-ID: <vKednSeATN9_LV7bnZ2dnUVZ_vShnZ2d@comcast.com>
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.antenna:4752
rec.radio.amateur.homebrew:775

"amdx" <amdx@knology.net> wrote in message
news:87be3$46c36c35$18d6b40c$32327@KNOLOGY.NET...
>
> Now the question is: Is the wifi adapter output really 50 ohms? If it's
> not 50 ohms............................

Possibly, but it is immaterial. It is probably meant to drive rated power
into a 50 Ohm load.

Tam

From -8311849994154261080
X-Google-Thread: 1109af,48383e71cf246581,start
X-Google-Thread: 107ada,48383e71cf246581,start
X-Google-Thread: 107cee,48383e71cf246581,start
X-Google-Thread: f4e7d,48383e71cf246581,start
X-Google-Thread: 1130cb,48383e71cf246581,start
X-Google-Thread: fc2a5,48383e71cf246581,start
X-Google-Thread: fc8b1,48383e71cf246581,start
X-Google-Thread: 10b9c8,48383e71cf246581,start
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news.level3.com!newsfeed-00.mathworks.com!panix!bloom-beacon.mit.edu!senator-
bedfellow.mit.edu!dreaderd!not-for-mail
Newsgroups:
rec.radio.swap,rec.radio.amateur.misc,sci.electronics.misc,ne.forsale,ne.general,r
ec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.info
Subject: ** FLEA at MIT **   Sunday August 19th   Cambridge MA
Summary: Buy Sell SWAP Ham Radio Electronics Computers 9AM - 2PM

Expires: 8/21/07
Followup-To: poster
Approved: rec-radio-info@panix.com
Distribution: na
Organization: Massachvsetts Institvte of Technology
Keywords: Hamfest Fleamarket SWAPFEST Computers Ham Radio Electronics
From: w1gsl@mit.edu (Steven L. Finberg)
Date: 16 Aug 2007 06:26:38 GMT
Lines: 133
Message-ID: <46c3ee1e$0$482$b45e6eb0@senator-bedfellow.mit.edu>
NNTP-Posting-Host: ALL-NIGHT-TOOL.MIT.EDU
X-Trace: 1187245598 senator-bedfellow.mit.edu 482 18.7.18.66
Xref: g2news2.google.com rec.radio.swap:976 rec.radio.amateur.misc:1628 sci.electronics.misc:1347 ne.forsale:94 ne.general:520 rec.radio.amateur.homebrew:776 rec.radio.amateur.boatanchors:929 rec.radio.info:197

This comming Sunday...

+++ Now even more Buyers Parking !!!
Thanks to Shire we have use of their new parking lot across Albany St from the SWAPFEST !!!

!! ** More Buyers PARKING is available ** for details see
http://web.mit.edu/w1gsl/Public/flyer

*** !!!! In our Traditional GARAGE and the adjacent lot !!!! ****
so come rain or shine or super heat the Flea is on !!!

********* $1 buyers discount with hardcopy of this notice ********

COMPUTERS - ELECTRONICS - HAM RADIO - COMPUTERS - ELECTRONICS - HAM RADIO

FLEA all SUMMER at MIT
Sunday August 19th 2007
9AM-2PM

Come to the city for a great flea - plenty of free parking.

MIT's electronics and ham radio flea will take place on the third Sunday of each month this summer, April thru October.

There is tailgate space for over 600 sellers and free, off-street parking for >2000 cars!

Buyers admission is $5 (you get $1 off if you're lucky enough to have a copy of our ad) and sellers spaces are $20 for the first and $15 for each additional at the gate.

The flea will be held at the corner of Albany and Main streets in Cambridge; right in the Kendall

Square area from 9AM to 2PM, with sellers set-up
time starting at 7AM.

SEASON PASS + Advance Seller Discount

A sellers discount season pass is available which
offers a 30% discount. By prepaying you get a
discount and earlier admission. See the registration form.

*** Attention Sellers ***
Prepaid vendors.. Season Pass or monthly,
will be admitted FIRST.
Separate lines will form prior to gate opening
for prepaid and nonprepaid vendors

!! RAIN or SHINE !! Have no fear of rain, a covered
well illuminated tailgate area is available for all
sellers (6'8" clearance).

Talk-in: 145.23- (PL 88.5) W1BOS/R and
W1XM/R-449.725/444.725 (PL 114.8/2A).

Sponsors: MIT Electronics Research Society
MIT UHF Repeater Association (W1XM)
MIT Radio Society (W1MX)
Harvard Wireless Club (W1AF)

For more info / advanced reservations 617 253 3776

********** $1 buyers discount with hard copy of this notice ************

<<<<<<<<<<<<<<<<<<<<<<<< cut here >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Mail the coupon below by the 5th of the month to be a Prepaid Vendor.

FLEA at MIT 2007 Rates

SELLERS

To use your prepaid spaces the named vendor MUST be present.
Rates include one admission per space.

Advance $17 First space
$12 Additional Spaces
Must be received by the 5th of the month.

Gate Admission $20 First Space
$15 Additional Spaces
Admission is after the prepaid vendors

Early Bird Buyer -Admission after the prepaid vendor line is admitted. ~ 7:15AM
** You may not sell. **

$15 per person at the gate.

****************************** cut here *******************************

FLEA at MIT 2007 Advance Space Application

____April ____May ____June ____ July ____Aug ___Sept ____Oct
@ $17 for the first each month + $12 each additional

Name ________________________ Call __________ $ Included______

Address ________________________ Phone __________ Make Check to
The MIT Radio Society
City ____________________ State _______ Zip _______ PO Box 397082
Cambridge MA 02139
E-mail ____

****
Steve Finberg W1GSL w1gsl@mit.edu
PO Box 82 MIT Br Cambridge MA 02139-7082 617 258 3754
****

```
From -8610313801731856699
X-Google-Thread: fc2a5,e9d60c5c5edb69a3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!d55g2000hsg.googlegroups.com!not-for-
mail
From:  sci.fi.tg@gmail.com
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Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HY1417LP datasheet/info?
Date: Fri, 17 Aug 2007 10:14:58 -0700
Organization: http://groups.google.com
Lines: 29
Message-ID: <1187370898.407011.231860@d55g2000hsg.googlegroups.com>
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Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1187370898 18888 127.0.0.1 (17 Aug 2007 17:14:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 17 Aug 2007 17:14:58 +0000 (UTC)
In-Reply-To: <pan.2007.06.19.14.17.22.765483@invalid.nospam>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d55g2000hsg.googlegroups.com; posting-host=170.24.14.152;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:777

On Jun 19, 10:17 am, Doug Smith W9WI <w...@invalid.nospam> wrote:
> On Mon, 18 Jun 2007 23:22:33 -0700, MarkAren wrote:
> > Could you email me what you found on the FCC site please.
>
> As I mentioned in the other reply, HY1417LP and BH1417 are two different
> devices - HY1417LP has only 16 pins but is used with a separate 6-pin chip
> which appears to be the VCO.
>
> I of course managed to leave the battery cover (with the FCC ID#) at work
> last night so won't be able to look up the exact link until much later.
> I've not been having any luck looking up the FCC ID#s on various other
> pieces of electronics in the house. (type in the ID# exactly as it
> appears on the sticker - and the FCC says it doesn't exist...) But it
> worked with this device. On this URL:
>
> https://gullfoss2.fcc.gov/oetcf/eas/reports/GenericSearch.cfm
>
> you put in the ID code, look under Attachments, there may be one for a
> schematic. The manufacturers can mark it as confidential but in this case
> they didn't.

I was wondering if anyone found any more info on the chip (HY1417LP) I
too purchased the mp3 fm transmitter, but unlike what I have read I am
looking for which pin on the 16 pin chip is the antenna? my eyes are
not what they use to be and even using a loupe its hard to read the
curcuit board. What I would like to do is extend the antenna or maybe
built a fm booster to extend the range lets say @ 50 feet from my car
so I can listen while working outside, at the beach, etc.......

```
From -5299284632557020067
X-Google-Thread: fc2a5,24758f2f74bb8816,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc04.POSTED!d89a2db8!
not-for-mail
From: "Dale Parfitt" <par@parelectronics.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Digital Readout for TV Rotator
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <tXoxi.30$A57.28@trnddc04>
Date: Fri, 17 Aug 2007 22:04:09 GMT
NNTP-Posting-Host: 63.19.184.8
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc04 1187388249 63.19.184.8 (Fri, 17 Aug 2007 18:04:09 EDT)
NNTP-Posting-Date: Fri, 17 Aug 2007 18:04:09 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:778
X-Original-Bytes: 1039

I have been searching for a QST article that detailed modifying a TV style
rotator such that the readout was a digital panel meter that was scaled for
degrees.
Does anyone recall the article- year/month?

Tnx,
Dale W4OP




From -1074133063365605223
X-Google-Thread: fc2a5,24758f2f74bb8816
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!sn-xt-sjc-05!sn-xt-sjc-07!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: John Ferrell <johnferrell@sprintmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Digital Readout for TV Rotator
Date: Sat, 18 Aug 2007 09:24:52 -0400
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <bbsdc3lo3cl2fbtfblghbrvroav4sbjhv5@4ax.com>
References: <tXoxi.30$A57.28@trnddc04>
```

```
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 28
Xref: g2news2.google.com rec.radio.amateur.homebrew:779

On Fri, 17 Aug 2007 22:04:09 GMT, "Dale Parfitt"
<par@parelectronics.com> wrote:

>I have been searching for a QST article that detailed modifying a TV style
>rotator such that the readout was a digital panel meter that was scaled for
>degrees.
>Does anyone recall the article- year/month?
>
>Tnx,
>Dale W4OP
>
>
Before you go to a lot of trouble check out
http://www.starkelectronic.com/rotor.htm#rotor

It works very well as advertised. It used to be available as a control
box alone. I have one that took a lightning strike that killed the PIC
microprocessor. Unfortunately, the only chip with that pin out is a
one-time-program device.

If you choose to Home brew it you will need to be aware that the three
wire devices consist of two motors, clockwise and counter clockwise.
The position is determined by the run time on the motors. A
calibration cycle is needed occasionally but it works well.

John Ferrell W8CCW
"Life is easier if you learn to
plow around the stumps"


From 7667914318048019794
X-Google-Thread: fc2a5,e6b6b070bf313b0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 18 Aug 2007 10:08:24 -0500
From: "gb" <w9nogbspam@arrlspamno.net>
Newsgroups: rec.radio.amateur.homebrew
References: <6vNvi.1387$hK5.1064@trndny02>
Subject: Re: TS-530s Finals neutralization
Date: Sat, 18 Aug 2007 10:08:22 -0500
X-Priority: 3
X-MSMail-Priority: Normal
```

X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <6fednYm-r831llrbnZ2dnUVZ_u2mnZ2d@comcast.com>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.14.244.109
X-Trace: sv3-
vhebvrSp1juh3KvmG85mfoL+Hc5PrEzFHv6jqY796joTyUzsZcNdoQ0JgIZbdM3EbJH9F4HwcG0qUit!
7MGfFDOk6i+d7PO2HGjMYWyAVY8dpPeztPug1WZmZqbvLptxqZ/VJCkhu5CCT5d0AmBA8OJdEwwn!
+VH9jQoHN1966ZegeXh7/ZdpTTG53Q==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:780

"KB3IBT Dan K" <dankal@email.com> wrote in message
news:6vNvi.1387$hK5.1064@trndny02...
> Hello All,
> I was told by a ham during a QSO that if I buy a matched pair of 6146b's,
> I would not need to neutralize them?? Is that true?
>
> Thanks KB3IBT
>
IBT -

Quit relying upon nonsense QSO tech advice -- go to Ken's (K4EAA) web
site -- and get your FAQ answers about Kenwood Hybrids.
http://www.k4eaa.com/

From 1192159293821253651
X-Google-Thread: fc2a5,e6b6b070bf313b0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 18 Aug 2007 10:11:45 -0500
From: "gb" <w9nogbspam@arrlspamno.net>
Newsgroups: rec.radio.amateur.homebrew
References: <6vNvi.1387$hK5.1064@trndny02>
Subject: Re: TS-530s Finals neutralization
Date: Sat, 18 Aug 2007 10:11:43 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138

X-RFC2646: Format=Flowed; Response
Message-ID: <Bf-dnaNK9ouskVrbnZ2dnUVZ_gOdnZ2d@comcast.com>
Lines: 193
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.14.244.109
X-Trace: sv3-Y5wPBpV5wgkFuS834PBLUHG1Lj/
VXIOsoeAfGmPa9fWDyqfKevefWpnxu9UP40W6HZPEigFxzhfQjY4!
rSgHjFwpCeA8gweTX8lH7pQ1XFytAPXEe+Mdmu8Ma2jm5sQVjuYWZAbjXrDaG1hLty/Or/fAgsfO!
HJV5a8tAMPBXFbL2feUNvzaaW3AZOQ==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:781

"KB3IBT Dan K" <dankal@email.com> wrote in message
news:6vNvi.1387$hK5.1064@trndny02...

> Hello All,
> I was told by a ham during a QSO that if I buy a matched pair of 6146b's,
> I would not need to neutralize them?? Is that true?
>
> Thanks KB3IBT

I've read where certain resistors in the hybrids served double-duty as fuses. What gives?

Usually the resistors, if you overload your rig for extended periods! <g> As I've told lots of other people, the first thing I check when I unbutton a rig is the cathode and screen resistors. That gives me an immediate indication of whether the rig has seen some abuse during tune-up or operation.   Kenwood made the cathode and screen resistors in the final section just large enough to do their job, with a little room for beginning operators learning to tune it up properly. Before any real damage can occur to the expensive items, like the power transformer (priced one lately at kenwoodparts.com?) or the final tubes, the cheap resistors will give it up. Cheap, simple, and quick to replace, they have saved many, many Kenwood hybrids from the bone-pile.   See my further description HERE.

How can I tell when my cathode resistors are cooked?

The easiest way is to measure them, with a zero-adjusted ohm-meter. From cathode to ground, it should read 5 Ohms, +/- 5% (4.75 to 5.25 Ohms). You can see tell-tale signs without opening the case, however. The plate current metering is read from the cathode voltage, and the higher the cathode resistance, the higher the plate current reading. Also, the lower the output power.   If you read high plate current and low output power, those cathode resistors are probably climbing in value!   The plate current is actually lower than what you are seeing, and the output power is just confirming it. Time to order some replacement resistors!

How do I know when I have bad final screen resistors?

The final screen voltage directly affects your output power. It is the basis of most QRO mods, just raise the screen voltage beyond the Kenwood design values, and viola! More power!. Since we already know we probably don't want to RAISE the screen voltage, what we are concerned with here is too LOW of a screen voltage.   Again, the failure mode of resistors is to go UP in value when they are getting cooked, and that will also lower the screen voltage in the Kenwoods. If your fresh finals are not providing an honest 100W output, and if you have plenty of drive, it's probably a good time to check your screen voltage, and the value of the 100 Ohm and 470 Ohm resitors in series with the screens.   There can be other causes, but let's go with the most common, and check those resistors first.

How can I tell when my finals (6146's) are getting "soft?"

Tubes go "soft" when their cathode emissions begin to drop. That means that for a given set of circumstances, plate voltage, screen voltage, drive level, etc., fewer electrons make it from the cathode to the plate. When this happens, plate current begins to fall off, output power starts to drop, and we start to increase the LOAD control and re-dip to maintain the power output. As we increase the LOAD control, and more heavily tax the finals, the tuning starts to get broad, with a much less pronounced "dip." This can occur gradually over time, so we tend to overlook it. Finally, we're seeing 70W out on 20M with very broad plate tuning - It's time to replace the finals. Fortunately, for Kenwood, this can take over 35 years, depending on your operating habits, as I get lots of rigs with the original S2001 tubes in place, almost as good as new!

When should I replace my 12BY7A driver tube?

The ALC metering directly measures the performance of your driver tube. Usually, when the tube starts to go soft, it will be hard to obtain full ALC swing on the highest bands. 10M will always go first. As long as you have sufficient drive to get well into the ALC range on the bands that you work, the tube is fine. When ALC drops to zero on bands of interest, it's time to replace it. You need ALC indication for the speech processing and other features to work properly, so don't operate in the grey areas ouside of normal ALC readings.

In your Tune-Up procedure, you intimate that 225ma is a sort of "Magic Number" for plate current. Why is that?

When we're adjusting the plate and load controls during tune-up, what we're actually doing is attempting to match the output impedance of the finals (the two 6146B's in parallel) to the 50 ohm load. Maximum power transfer always occurs when we match source and load impedance, and for a pair of 6146's in good condition, with nominal plate and screen voltages as found in the Kenwoods, that turns out to happen at around 225ma indicated plate current. 800VDC X 225ma also turns out to be 180W DC input, right at Kenwood's design goal. If you watch your output power as you increase loading while re-dipping, you'll see increasing output power until Ip reaches about 225ma, then it starts to come down again. Plate current will be higher, but power out will be lower.

How can I Neutralize my Finals?

Neutralization is the process of compensating for the inter-electrode capacitance of the final tubes. It helps prevent the tubes from oscillating, and allows them to perform as a stable amplifier. Here is a simple sequence for neutralizing your finals:

(1) Tune up normally into a dummy load on 10M, perhaps 28.1 MHz

(2) Turn your SG (Screen Grid voltage) switch OFF. This effectively turns off your finals, and will prevent them from putting any power into your measurement setup.

(3) If your dummy load has external connections to monitor the RF it is seeing, use those - Otherwise, remove the dummy load and replace it with a 50 ohm resistor (47 or 51 Ohms, 1/2W will work fine) that is mounted onto a PL-259 Plug. During neutralization there is no significant power in the load, so use what's handy.

(4) Using an RF millivoltmeter or oscilloscope with at least 20MHz bandwidth, connect it across the small 50 Ohm test load. A 20MHz scope will display 28 MHz adequately, although it won't accurately measure the RF voltage present. That's OK, because when we neutralize, we're simply tuning for minimum output.

(5) Key the rig and observe the output voltage on your RF VTVM or Scope. This is the drive power "leaking through" to the load with the finals inoperative. Our goal here is to minimize this leakage, and in doing so, we will ne "neutralizing" the inter-electrode capacitance.

(6) Using an INSULATED tool, either plastic or a carved wooden dowel, tune the neutralization capacitor for minimum output. You should be able to get down to 10 millivolts or so. There is LOTS of voltage present, so don't even THINK about using a metallic tool!! You will spark and arc and create

all manner of scarey fireworks if you do - Not to mention perhaps joining the ranks of the SK's . . .

Don't forget to return your SG switch to ON for normal operation.

Why Can't I Successfully Neutralize my 6146A's?

The Kenwood's were designed around the 6146B, which was significantly different from previous 6146 and 6146A versions. You should not use the 6146, 6146A, or 6146W built before the mid-1960's in the Kenwoods. After the 6146B was introduced in 1964, the 6146W's gradually were migrated to the 6146B design, and later versions of those tubes are fine. The neutralization circuit employed in the Kenwood hybrids was designed around the 6146B, and may not be able to successfully neutralize the older versions - That can lead to instability in the finals.

What should I do after changing Finals?

Whenever you change finals, you must read and understand the following information whether they are NOS U.S. or of foreign manufacture.

Absolutely every time you change the finals in your Kenwood, you MUST do two things: (1) You must adjust the bias for the new tubes, and (2) you MUST neutralize the new tubes. Simple stuff, but you have to take these two steps to avoid problems.

Whenever you install new finals, the following steps for adjusting the bias MUST be followed. Install the new tubes. Turn the bias pot full CCW (No bias). Turn on the rig and heaters. Turn your MIC control full CCW (no gain). Set your BAND to 14 MHz (20M). Set your MODE control to USB.

Flip the SEND switch to TRANSMIT and adjust your bias for 50 ma.

Why is this important? All tubes from different manufacturers or eras show differences in operating characteristics. You have to tune the factory provided adjustments to compensate for these changes when you swap finals. It may take a few minutes, but it is well worth the effort. Your new tubes will be operating safely, and will then provide many years of peak performance.

For neutralization, see the FAQ question a few steps above this question.

From -2386515321560075015
X-Google-Thread: fc2a5,80f4208f4b78bfea
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out02a.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews1.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.12 (X11/20070606)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I0CG new AD9912 1GHz DDS
References: <1186318543.573793.122530@q75g2000hsh.googlegroups.com>
In-Reply-To: <1186318543.573793.122530@q75g2000hsh.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 58
Message-ID: <nGExi.2617$pu2.722@bignews1.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
pcpocbcnbdmdhgfgdbdpiflmbcekedmfhojhikkbagflhcbodbcanfgoipoejamkakdppnhpkmiolhflpa
jcefoijfdncediioccohllckngkmcddkplkmhbobemncobeflhlbmeofehmbbddglkkefihlmgaipk
NNTP-Posting-Date: Sat, 18 Aug 2007 11:58:11 EDT
Organization: BellSouth Internet Group
Date: Sat, 18 Aug 2007 15:58:13 +0000
Xref: g2news2.google.com rec.radio.amateur.homebrew:782

Gian, I7SWX wrote:
> Hi all,
> You may recall my note regarding the expected good results on low
> spurs using the Analog Devices AD9912 1GHz DDS.
> Well, my good friend Giuliano, I0CG, (of AD9951 DDS fame) has now
> experimented enough with this new DDS chip and done some measurements
> with interesting results.
>
> His comments are:
>
> "My laboratory tests demonstrate that spurious performance and
> frequency extension are superior to all others actual DDS, including
> the AD9951.
> In a few words ... This new AD9912 DDS is the best solution available
> today for amateur radio applications"
>
> You may visit his web site and see spectrum analyzer screen shots and
> comparison with his old AD9951 DDS design:
>
> 1) AD9912 with 190 MHz output (Clock 1 GHz)Analyzer span= 200 MHz
>
> 2) old AD9951 with158 MHz output (clock 500 MHz)Analyzer span= 200
> MHz

>
> 3) AD9912 Frequency extension test: 400 MHz output (clock 1
> GHz)Analyzer span= 500 MHz
>
> http://it.geocities.com/giulianoi0cg/dds4.html
>
> If you have problems to from the web page to be readdressed to his
> AD9951 DDS project you may try the following address:
>
> http://www.radioamatore.it/i0cg/add9951.html
>
> Giuliano is designing a new DDS PCB compatible with his actual AD9951
> board as users of his DDS can easily upgrade to new performances for
> spurs but also extending the DDS use to VHF and UHF with better SFDR
> (HF, VHF and UHF VFO = 0-400 MHz with 1GHz clock or 0-480 MHz with
> 1.2 GHz clock).
>
> Old and new projects can be easily updated to frequency and
> performances extension with better SFDR.
>
> I0CG expect to have the new AD9912 PCB available during this coming
> September.
>
> Thanks Giuliano for all your dedicated work on this important aspect
> of our radio technology.
>
> 73
> Gian
> I7SWX
>

looks interesting. Checked the AD website and the specs on this chip
are currently very early. No pricing is posted yet and I'm not sure
samples are yet available (AD will send free samples to hams).
I'll have to keep an eye on their web site from time to time for
updates. And when a circuit board is available PLEASE post the info here!

From -6319249331036379041
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
<1185691120.009824.138370@j4g2000prf.googlegroups.com>
<o31ri.830$g86.464@newsfe14.lga> <46acfdcf$0$32528$4c368faf@roadrunner.com>
<Oo8ri.6656$dA7.4823@newsfe16.lga> <13aqhbq9fjuqo52@corp.supernews.com>
Subject: Re: microwave oven power supply
Date: Mon, 30 Jul 2007 06:03:08 -0400
X-Priority: 3

```
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Lines: 32
Message-ID: <46adb750$0$4646$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:630


"msg" <msg@_cybertheque.org_> wrote in message
news:13aqhbq9fjuqo52@corp.supernews.com...
> Uncle Peter wrote:
>
>
>> if they are using some sort of pulse width control of the klystron duty
>> cycle.
>
> Somehow I seem to remember an early commercial 'radio oven' that used
> a klystron; can anyone confirm this?
>
>> I was just expressing an opinion. My kitchen microwave is a Panasonic
>> inverter type.
>
> Please post photos of it together with make and model info; if you
> feel frisky, photos of the interior and PCBs would also be helpful
> together with a photo of the wiring-diagram label that is often
> included.
>
> Regards,
>
> Michael

i thought i did post the model #. dont know what happened. will have to dig
it out again. Wife got a hold of them and gave one to the church and one
became our personal oven so i cant tear it apart. I have long since been
forbidden to do that unless it is really broken.

Jimmie




From 6246174131289218663
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!out03b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!
in04.usenetserver.com!news.usenetserver.com!nx01.iad01.newshosting.com!
newshosting.com!post01.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
```

```
Newsgroups: rec.radio.amateur.homebrew
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
<1185691120.009824.138370@j4g2000prf.googlegroups.com>
<46acfd4f$0$16577$4c368faf@roadrunner.com> <13aqh75b4h0d635@corp.supernews.com>
Subject: Re: microwave oven power supply
Date: Mon, 30 Jul 2007 06:05:41 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Lines: 28
Message-ID: <46adb7ea$0$4644$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:631


"msg" <msg@_cybertheque.org_> wrote in message
news:13aqh75b4h0d635@corp.supernews.com...
> Jimmie D wrote:
>
>> there are appaently 2 types, one is made to run off of 12 volts maybe 24
>> VDC and the other runs off of 120VAC.
>> I think the 120VAC initially converts it to 300VDC then aplies it to the
>> inverter circuit.. Still trying to find a schematic to verify. I would
>> think this technology could be a major help for amp builders allowing us
>> to build inexpensive power supplies and easily custom wind the inverter
>> transformers.
>
> Please dig out the ones you have and take photos, front and rear of the
> entire unit and if you don't mind, disassemble and photograph and
> components. I can host the photos if you wish (email them to me).
> This would _really_ help in the evaluation until any of us find
> schematics.
>
> Regards,
>
> Michael
> msg _at_ cybertheque _dot_ org

Seems i am going to be looking for a couple more as the wife laid claim on
these.




From 1470273599747701693
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out02b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
```

nx01.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
<1185691120.009824.138370@j4g2000prf.googlegroups.com>
<46acfd4f$0$16577$4c368faf@roadrunner.com> <13aqh75b4h0d635@corp.supernews.com>
<46adb7ea$0$4644$4c368faf@roadrunner.com>
Subject: Re: microwave oven power supply
Date: Mon, 30 Jul 2007 10:23:12 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Lines: 34
Message-ID: <46adf445$0$12181$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:632

"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
news:46adb7ea$0$4644$4c368faf@roadrunner.com...
>
> "msg" <msg@_cybertheque.org_> wrote in message
> news:13aqh75b4h0d635@corp.supernews.com...
>> Jimmie D wrote:
>>
>>> there are appaently 2 types, one is made to run off of 12 volts maybe 24
>>> VDC and the other runs off of 120VAC.
>>> I think the 120VAC initially converts it to 300VDC then aplies it to the
>>> inverter circuit.. Still trying to find a schematic to verify. I would
>>> think this technology could be a major help for amp builders allowing us
>>> to build inexpensive power supplies and easily custom wind the inverter
>>> transformers.
>>
>> Please dig out the ones you have and take photos, front and rear of the
>> entire unit and if you don't mind, disassemble and photograph and
>> components. I can host the photos if you wish (email them to me).
>> This would _really_ help in the evaluation until any of us find
>> schematics.
>>
>> Regards,
>>
>> Michael
>> msg _at_ cybertheque _dot_ org
>
> Seems i am going to be looking for a couple more as the wife laid claim on
> these.
>

I did find some info saying the switcher was run using IGBTs.

```
From 3483017234939369316
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
<1185691120.009824.138370@j4g2000prf.googlegroups.com>
<46acfd4f$0$16577$4c368faf@roadrunner.com> <13aqh75b4h0d635@corp.supernews.com>
<46adb7ea$0$4644$4c368faf@roadrunner.com>
<46adf445$0$12181$4c368faf@roadrunner.com>
Subject: Re: microwave oven power supply
Date: Mon, 30 Jul 2007 10:46:21 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Lines: 48
Message-ID: <46adf9b2$0$12170$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:633


"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
news:46adf445$0$12181$4c368faf@roadrunner.com...
>
> "Jimmie D" <GFENDER@carolina.rr.com> wrote in message
> news:46adb7ea$0$4644$4c368faf@roadrunner.com...
>>
>> "msg" <msg@_cybertheque.org_> wrote in message
>> news:13aqh75b4h0d635@corp.supernews.com...
>>> Jimmie D wrote:
>>>
>>>> there are appaently 2 types, one is made to run off of 12 volts maybe
>>>> 24 VDC and the other runs off of 120VAC.
>>>> I think the 120VAC initially converts it to 300VDC then aplies it to
>>>> the inverter circuit.. Still trying to find a schematic to verify. I
>>>> would think this technology could be a major help for amp builders
>>>> allowing us to build inexpensive power supplies and easily custom wind
>>>> the inverter transformers.
>>>
>>> Please dig out the ones you have and take photos, front and rear of the
>>> entire unit and if you don't mind, disassemble and photograph and
>>> components. I can host the photos if you wish (email them to me).
```

>>> This would _really_ help in the evaluation until any of us find
>>> schematics.
>>>
>>> Regards,
>>>
>>> Michael
>>> msg _at_ cybertheque _dot_ org
>>
>> Seems i am going to be looking for a couple more as the wife laid claim
>> on these.
>>
>
> I did find some info saying the switcher was run using IGBTs.
>

Rats, service manual just shows it as a box, but I did find some useful info
here

http://fusor.net/board/view.php?site=fusor&bn=fusor_hvpower&key=1158786921

Knowing the freq they switch at would be a big help

Jimmie

From -4944772477776485090
X-Google-Thread: fc2a5,a2eec9bb6a24a9df
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-mail
From: spamhog@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF finals from PC monitor boards?
Date: Mon, 30 Jul 2007 09:25:12 -0700
Organization: http://groups.google.com
Lines: 34
Message-ID: <1185812712.061221.147980@q75g2000hsh.googlegroups.com>
References: <1185730502.849368.23240@q75g2000hsh.googlegroups.com>
   <46acff24$0$21204$5fc30a8@news.tiscali.it>
NNTP-Posting-Host: 84.223.119.179
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1185812712 25285 127.0.0.1 (30 Jul 2007 16:25:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 30 Jul 2007 16:25:12 +0000 (UTC)
In-Reply-To: <46acff24$0$21204$5fc30a8@news.tiscali.it>
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.21 (X11; Linux i686; U; en),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com

Injection-Info: q75g2000hsh.googlegroups.com; posting-host=84.223.119.179;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:634

Thank you all around!

I went through a couple of display motherboards, and looked into the specs of all power devices.

What their applications have in common is being rather high current and low frequency. You don't find much rated to work beyond fery few MHz, and with very large capacitances.

Examples:

- power MOSFET capable of switching 600V, 10A peak, with 2200pF gate-drain capacitance

- bipolars that can absorb several watts, but no higher than a couple of MHz

- horizontal finals yjat are included in fairly complex ICs with lots of ancillary components in feedback and protection circuitry - at least in CRT VDUs from the last 10+ years.

I have no doubt some RF can be teased out of these, but it seems to me it would be at the price of major design complications.

The advantage of tube finals was that their high-voltage low-current and low-capacitance nature lent itself to functioning also at higher frequencies than those of typical video circuits.

Next I'll look into TV distribution amps. I remember that transistors in those were designed to linearly pump a lot of different signals up to UHF, and that they tended to run hot - and 24/7.

From -3398255455801383380
X-Google-Thread: fc2a5,a2eec9bb6a24a9df
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 30 Jul 2007 11:45:04 -0500
Date: Mon, 30 Jul 2007 09:51:21 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: HF finals from PC monitor boards?
References: <1185730502.849368.23240@q75g2000hsh.googlegroups.com>
In-Reply-To: <1185730502.849368.23240@q75g2000hsh.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <i-CdnRwyq-ANiDPbnZ2dnUVZ_oimnZ2d@web-ster.com>
Lines: 45
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-LNXvvg9Wva8hdQ14SrUk/
+M1+osvGCwdB+G1xxBDb4mfMdR12g9itM0Cn96IYaEqprli5/JAb/8aX6Y!0f2Q/2wB/
e2WDsWR3sV8Ddpkg6k/JfDL8w1rPNuGaJCotIiSpgfmVpAARFy5a20dqfKMQKtGrEyn!
2LGpchI3htlHF4lW
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:635

spamhog@gmail.com wrote:
> In the vacuum tube world,
> several types of TV line finals
> are reused as HF PA FINALS.
>
>
>
> -   WHAT ABOUT CRT-TYPE PC MONITORS?   -
>
>
>
> Are there solid state components there
> that could do say 5 to 30W (in) at HF?
>
> Any other components
> that would fit well
> in a basic CW TX?
>
>
>
> I'd be moderately surprised if that were not the case!
>
> Hints, anyone?
>
> Filippo
> N1JPR/I2
>

Look at RF transistors from the surplus houses if you want to save bucks. Up to 10MHz or so you can use MOSFETs designed for SMPS service if you're careful with the gate drive circuit, and they'll be dirt cheap.

Brand spanking new transistors that'll handle a few watts at HF are a couple of bucks each, you can get up to 10W out affordably -- why do you want to muck around parting out consumer electronics of uncertain provenance?

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From -2615234387137186835
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!sn-xt-sjc-05!sn-xt-sjc-09!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: USB (the other one!) A2D converters?
Date: Mon, 30 Jul 2007 10:04:28 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13as6gucksu4a78@corp.supernews.com>
References: <f8eben$55g$1@aioe.org> <f8ejh2$d77$1@aioe.org> <6ZHqi.4$XZ6.3@newsfe02.lga> <f8fk9f$ljj$1@aioe.org>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-Complaints-To: abuse@supernews.com
Lines: 13
Xref: g2news2.google.com uk.radio.amateur:9814 rec.radio.amateur.homebrew:636

"John" <me@privacy.net> wrote in message news:f8fk9f$ljj$1@aioe.org...
> Many thnaks for the heads-up on the PICs. I've always tried to avoid USB
> interfaces for control applications, but I have a project on the horizon
> where I will almost certainly go down that route - simply because laptops no
> longer have RS-232 ports..

Many products still use RS-232 (albeit at TTL voltage levels) internally and just use, e.g., an FTDI USB<-->RS-232 converter chip (such as the FT2232R). This is actually easier than using a USB microcontroller, although it does tend to end up being a little more expensive as well (i.e., $5 for the FTDI IC, $5 for a microcontroller vs. $5 for a USB controller).

```
From 3622380149609393367
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!sn-xt-sjc-04!sn-xt-sjc-06!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: USB (the other one!) A2D converters?
Date: Mon, 30 Jul 2007 10:05:48 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13as6jdrep4eua3@corp.supernews.com>
References: <f8eben$55g$1@aioe.org>
<1185617823.742752.24670@k79g2000hse.googlegroups.com> <f8f8b0$fm2$1@aioe.org>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-Complaints-To: abuse@supernews.com
Lines: 9
Xref: g2news2.google.com uk.radio.amateur:9815 rec.radio.amateur.homebrew:637

"G "Guglielmo" Evans G4SDW" <no.spam@thank.you> wrote in message
news:f8f8b0$fm2$1@aioe.org...
> mirrorbow is not a bona-fide operation and does not advertise its
> address, directors and other information as now required
> by UK law.

That is a little odd.  Any idea why they aren't more forthcoming?
```

```
From 7433213952560530517
X-Google-Thread: fc2a5,a2eec9bb6a24a9df
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!19g2000hsx.googlegroups.com!not-for-
mail
From:  spamhog@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF finals from PC monitor boards?
Date: Mon, 30 Jul 2007 10:30:46 -0700
Organization: http://groups.google.com
Lines: 12
Message-ID: <1185816646.475756.7460@19g2000hsx.googlegroups.com>
References: <1185730502.849368.23240@q75g2000hsh.googlegroups.com>
   <i-CdnRwyq-ANiDPbnZ2dnUVZ_oimnZ2d@web-ster.com>
NNTP-Posting-Host: 84.223.119.179
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1185816646 31505 127.0.0.1 (30 Jul 2007 17:30:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 30 Jul 2007 17:30:46 +0000 (UTC)
In-Reply-To: <i-CdnRwyq-ANiDPbnZ2dnUVZ_oimnZ2d@web-ster.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.21 (X11; Linux i686; U; en),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 19g2000hsx.googlegroups.com; posting-host=84.223.119.179;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:638
```

> why do you
> want to muck around parting out consumer electronics of uncertain
> provenance?

curiosity and hack value, not much else!

there are good transmitter kits that are worth more than the effort
(and cost too) of ordering ones of each component

if you have some junk, though, it may be worth a thought :-)

```
From -8287174957448648508
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!news.netfinity.fr!
aioe.org!not-for-mail
From: "G \"Guglielmo\" Evans G4SDW" <no.spam@thank.you>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: USB (the other one!) A2D converters?
Date: Mon, 30 Jul 2007 19:57:00 +0100
Organization: Aioe.org NNTP Server
Lines: 21
Message-ID: <f8lc9v$mvt$1@aioe.org>
References: <f8eben$55g$1@aioe.org>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com uk.radio.amateur:9822 rec.radio.amateur.homebrew:639
```

"G "Guglielmo" Evans GW4SDW" <no.spam@thank.you> wrote in message

news:f8eben$55g$1@aioe.org...
> Does anyone have experience and/or recommendations
> for analogue and digital I/O interfaces based on the Universal
> Serial Bus (USB)?
>
> Just an idea for the genesis of a homebrew spectrum analyser.

Next consideration....not having to hand any components or
experience of the broadcast TV band (0.4 - 1GHz?) I wonder
what tuners and mixers are fitted to modern TVs and if anyone
can recommend a tuner separate from a main board that
might be used.

Also, where tuners are driven by I2C and similar busses, are
they channelised to fit the standard TV channels, or do they
have a delta frequency, say, 10kHz, that might be useful
for a spectrum analyser?

From -7951619273387642945
X-Google-Thread: fc2a5,50249f71b943bddc
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b79g2000hse.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 20 Meter SSB Transceiver?
Date: Mon, 30 Jul 2007 13:10:18 -0700
Organization: http://groups.google.com
Lines: 37
Message-ID: <1185826218.447092.226520@b79g2000hse.googlegroups.com>
References: <1185525789.042993.122200@z28g2000prd.googlegroups.com>
   <4Wvqi.11098$rX4.6907@pd7urf2no>
   <p1ima3d80kj28occgth1ibt32dtvmuiiia@4ax.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1185826218 1008 127.0.0.1 (30 Jul 2007 20:10:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 30 Jul 2007 20:10:18 +0000 (UTC)
In-Reply-To: <p1ima3d80kj28occgth1ibt32dtvmuiiia@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b79g2000hse.googlegroups.com; posting-host=170.121.15.35;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:640

On Jul 28, 9:48 am, no.s...@no.uce.bellatlantic.net wrote:

> On Sat, 28 Jul 2007 00:17:04 GMT, Yukio YANO <y...@shaw.ca> wrote:
> >Clayton wrote:
> >> Hi,
> >> I am looking for some plans for a simple(beginners) 20 Meter SSB Tube
> >> Transceiver and was wondering if somebody had any good plans or web
> >> site they could point me to?
>
> >> Any help would be greatly Appreciated
> >> Thank You
>
> >Why not re-work a 10 Meter(CB) SSB), Re-Tune the Rx. Front-end for 20
> >Meters, Use the 10 meter Tx as an Exciter to drive a 20 Meter Final.
>
> >This way 85% of the design work has already been done and tested !
>
> I've done that, the intermod is terrible in most CB rigs. After
> scrapping most of the RX frontend was it brought to the decent level.
>
> >Are you out to prove a point, or want a working rig ?? Tubes have been
> >obsolete for fifty years !! Why else would you attempt to build a
> >Sideband rig using parts that have been out of production for several
> >generations. If you are going to wind coils and Rf transformers why not
> >wind them for transistor stages. Transistor Rigs (CB) are CHEAP. Tube
> >type rigs have long been relegated to the Scrap Heap.
>
> First it's under 40 years since the last of the new production tube
> rigs.

The HW-101 (OK, it had a couple semiconductors in it but I won't hold
it against it, it's still a "tube rig") was still for sale by Heathkit
up till 1980 or so.

That'd be 27 years ago.

Tim.

From -1424876517651554779
X-Google-Thread: fc2a5,a2eec9bb6a24a9df
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-
media.com!hw-filter.lga!newsfe04.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1185730502.849368.23240@q75g2000hsh.googlegroups.com>
Subject: Re: HF finals from PC monitor boards?
Lines: 44
X-Priority: 3
X-MSMail-Priority: Normal

X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <nnsri.23$1T2.2@newsfe04.lga>
X-Trace:
noffecneefnkbhgfbaignffdjoaiejclafdahkcgphjknlmgnicfceledepkikoolhlefpnpglhfdcnhgk
ookomhpbogmlkodibfihdpkhgephpabjnbldekghnodeojhlimokjclcciclpf
NNTP-Posting-Date: Mon, 30 Jul 2007 14:04:19 MST
Date: Mon, 30 Jul 2007 17:04:15 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:641

A few years ago at FDIM, George Dobbs did a presentation about some guy whose main interest in the hobby was making complete rigs from PC monitors. He strenuously avoided using any parts that couldn't be scavenged from a monitor, so obviously, his designs were a little unusual. Getting in contact with George if you're not in the UK can be an exercise in frustration, and I don't recall the call of the guy he was talking about, or even the country, for that matter (I think it's the brains leaking out that's turning my hair gray).

I think it would have been in the 2005 FDIM proceedings, possibly 2003, but I think 2005.

..

<spamhog@gmail.com> wrote in message
news:1185730502.849368.23240@q75g2000hsh.googlegroups.com...
> In the vacuum tube world,
> several types of TV line finals
> are reused as HF PA FINALS.
>
>
>
> -   WHAT ABOUT CRT-TYPE PC MONITORS?   -
>
>
>
> Are there solid state components there
> that could do say 5 to 30W (in) at HF?
>
> Any other components
> that would fit well
> in a basic CW TX?
>
>
>
> I'd be moderately surprised if that were not the case!
>
> Hints, anyone?
>
> Filippo
> N1JPR/I2
>

```
From 7328058996922061607
X-Google-Thread: fc2a5,4270e94220292831
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!out03b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!
wesley.videotron.net!wagner.videotron.net.POSTED!not-for-mail
From: "noname" <willnotwork@sorry.com>
Newsgroups: rec.radio.amateur.homebrew
References: <sG9ri.13919$Mw2.99409@weber.videotron.net>
Subject: Re: Off topic .. what's the best reception portable am/fm for Camping...
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <WNsri.316$k36.195751@wagner.videotron.net>
Date: Mon, 30 Jul 2007 17:32:32 -0400
NNTP-Posting-Host: 66.131.87.105
X-Complaints-To: abuse@videotron.ca
X-Trace: wagner.videotron.net 1185831158 66.131.87.105 (Mon, 30 Jul 2007 17:32:38
EDT)
NNTP-Posting-Date: Mon, 30 Jul 2007 17:32:38 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:642

come on guys,.... someone must know a good and cheap radio  to
recommand....... Please...

Stef.


"noname" <willnotwork@sorry.com> wrote in message
news:sG9ri.13919$Mw2.99409@weber.videotron.net...
> Hi. I'm sorry if this is off topic here but I thought some of you would
> know.
>
> I'm looking for a small portable battery operated AM/FM radio to bring
> with me on  hunting/fishing trips, so I guess what I'm looking for is a
> radios with a strong receiver to catch as many station as possible. I'm
> not looking for better sound, just a basic radio   I know any radio won't
> work if you are too far away,  but that won't be my case. with the radio I
> have now , I can catch like 1 FM station whenb weather permits, and 4 or 5
> AM stations,... I would like to increase these numbers as much as
> possible..
>
> Can you recommend a good brand/model please?
>
> regards
> stef, Montreal, Canada.
>




From 7495100571842742869
X-Google-Thread: fc2a5,4270e94220292831
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!
newscon02.news.prodigy.net!prodigy.net!nntp1.roc.gblx.net!nntp.gblx.net!
nntp.gblx.net!news.xcski.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Off topic .. what's the best reception portable am/fm for Camping...
Date: 30 Jul 2007 21:42:01 GMT
Organization: The National Capital FreeNet
Lines: 19
Message-ID: <f8llv9$8nd$1@theodyn.ncf.ca>
References: <sG9ri.13919$Mw2.99409@weber.videotron.net>
<WNsri.316$k36.195751@wagner.videotron.net>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1185831721 8941 134.117.136.48 (30 Jul 2007 21:42:01 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 30 Jul 2007 21:42:01 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:643

"noname" (willnotwork@sorry.com) writes:
> come on guys,.... someone must know a good and cheap radio  to
> recommand....... Please...
>
> Stef.
>
Because it is off topic.

I'm tired of newsgroups being cluttered with posts that belong elsewhere.
And most of the time it is because people can't be bothered finding
the most appropriate place to post.

There's a whole rec.radio.* hierarchy, yet you chose to post in one
about the building of amateur radio equipment.  That doesn't say much.

Asking in the local newsgroup would actually be more on topic than
asking here.

   Michael  VE2BVW


From 2478468734401486261
X-Google-Thread: fc2a5,f6972cd12a3f94a2
X-Google-Attributes: gidfc2a5,public,usenet
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!feeder3.cambrium.nl!feed.tweaknews.nl!
newsfeed.kamp.net!newsfeed.kamp.net!news.germany.com!aioe.org!not-for-mail
From: Andreu <root@sys1.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VK5BR VLF receiver.
Date: Tue, 31 Jul 2007 00:12:12 +0200
Organization: Aioe.org NNTP Server
Lines: 4
Message-ID: <f8lnli$3g6$1@aioe.org>
References: <f8gcn4$tgd$1@aioe.org>
NNTP-Posting-Host: T4VqS19GbbXofasvbW9Udg.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
In-Reply-To:
User-Agent: Thunderbird 2.0.0.4 (X11/20070604)
Xref: g2news2.google.com rec.radio.amateur.homebrew:644
```

I have followed the advice, and sent a msg to Lloyd.
He kindly sent me a better drawing.
Thanks.

```
From 1075624020927253139
X-Google-Thread: fc2a5,4270e94220292831
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
out04a.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!
news.usenetserver.com!wesley.videotron.net!wagner.videotron.net.POSTED!not-for-
mail
From: "noname" <willnotwork@sorry.com>
Newsgroups: rec.radio.amateur.homebrew
References: <sG9ri.13919$Mw2.99409@weber.videotron.net>
<WNsri.316$k36.195751@wagner.videotron.net> <f8llv9$8nd$1@theodyn.ncf.ca>
Subject: Re: Off topic .. what's the best reception portable am/fm for Camping...
Lines: 32
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <Zotri.588$k36.201350@wagner.videotron.net>
Date: Mon, 30 Jul 2007 18:14:49 -0400
NNTP-Posting-Host: 66.131.87.105
X-Complaints-To: abuse@videotron.ca
X-Trace: wagner.videotron.net 1185833657 66.131.87.105 (Mon, 30 Jul 2007 18:14:17
EDT)
NNTP-Posting-Date: Mon, 30 Jul 2007 18:14:17 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:645
```

```
Sorry Michael if I made you mad. I did say this  was an OT... and I
personally don't think this place is " cluttered ".  If  someone here knows
a better newsgroup for me to ask, please let me know asap, as I did check,
but couldn't find a better newsgroup... I just thought you guys would know
better as you probably have a good knowledge of antennas and receivers...
you can reach me privately at herbeapuce@hotmail.com  if you have any info
for me, some  reviews or links. Best to you. Stef.


"Michael Black" <et472@FreeNet.Carleton.CA> wrote in message
news:f8llv9$8nd$1@theodyn.ncf.ca...
> "noname" (willnotwork@sorry.com) writes:
>> come on guys,.... someone must know a good and cheap radio  to
>> recommand....... Please...
>>
>> Stef.
>>
> Because it is off topic.
>
> I'm tired of newsgroups being cluttered with posts that belong elsewhere.
> And most of the time it is because people can't be bothered finding
> the most appropriate place to post.
>
> There's a whole rec.radio.* hierarchy, yet you chose to post in one
> about the building of amateur radio equipment.  That doesn't say much.
>
> Asking in the local newsgroup would actually be more on topic than
> asking here.
>
>   Michael  VE2BVW




From 4794550341640815817
X-Google-Thread: fc2a5,a2eec9bb6a24a9df
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!peer1.news.newnet.co.uk!
194.159.246.34.MISMATCH!peer-uk.news.demon.net!kibo.news.demon.net!
news.demon.co.uk!demon!clintsmc.demon.co.uk!clint
From: Clint Sharp <clint@clintsmc.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF finals from PC monitor boards?
Date: Mon, 30 Jul 2007 23:18:49 +0100
Organization: Little
Lines: 22
Message-ID: <ejM$cwHJPmrGFw7c@clintsmc.demon.co.uk>
References: <1185730502.849368.23240@q75g2000hsh.googlegroups.com>
 <i-CdnRwyq-ANiDPbnZ2dnUVZ_oimnZ2d@web-ster.com>
NNTP-Posting-Host: clintsmc.demon.co.uk
Mime-Version: 1.0
```

```
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1185833958 23722 62.49.16.63 (30 Jul 2007 22:19:18 GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Mon, 30 Jul 2007 22:19:18 +0000 (UTC)
User-Agent: Turnpike/6.05-S (<KG7L$hUrcv7RzK87Vl4LbGeV0W>)
Xref: g2news2.google.com rec.radio.amateur.homebrew:646

In message <i-CdnRwyq-ANiDPbnZ2dnUVZ_oimnZ2d@web-ster.com>, Tim Wescott
<tim@seemywebsite.com> writes
>spamhog@gmail.com wrote:
>Look at RF transistors from the surplus houses if you want to save
>bucks.  Up to 10MHz or so you can use MOSFETs designed for SMPS service
>if you're careful with the gate drive circuit, and they'll be dirt cheap.
>
Lots of examples of IRF520 MOSFETS and similar in HF output stages and
amplifiers out there, monitors also tend to have nice stuff like HV
caps, ferrites and as another poster mentioned, the video circuitry on
the tube base (often) has some nice transistors that will work up to
VHF.
>Brand spanking new transistors that'll handle a few watts at HF are a
>couple of bucks each, you can get up to 10W out affordably -- why do
>you want to muck around parting out consumer electronics of uncertain
>provenance?
>
Spirit of experimentation? I thought homebrew was all about that,
nothing like being able to tell a contact that the TX was built out of
scrap you got for free.
--
Clint Sharp


From 3284406252022427406
X-Google-Thread: fc2a5,a2eec9bb6a24a9df
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!tethys.csu.net!
nntp.csufresno.edu!sn-xt-sjc-03!sn-xt-sjc-10!sn-xt-sjc-01!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: Chris Jones <lugnut808@nospam.yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF finals from PC monitor boards?
Date: Tue, 31 Jul 2007 00:37:45 +0100
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13asq0jr2914k7f@corp.supernews.com>
References: <1185730502.849368.23240@q75g2000hsh.googlegroups.com>
<46acff24$0$21204$5fc30a8@news.tiscali.it>
<1185812712.061221.147980@q75g2000hsh.googlegroups.com>
User-Agent: KNode/0.7.7
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Complaints-To: abuse@supernews.com
Lines: 59
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:647

spamhog@gmail.com wrote:

>
> Thank you all around!
>
> I went through a couple of display motherboards, and looked into the specs of all power devices.
>
> What their applications have in common is being rather high current and low frequency. You don't find much rated to work beyond fery few MHz, and with very large capacitances.
>
> Examples:
>
> - power MOSFET capable of switching 600V, 10A peak, with 2200pF gate-drain capacitance

These can be handy for switching stuff on and off, regulators, DC-DC converters etc.

> - bipolars that can absorb several watts, but no higher than a couple of MHz
>
> - horizontal finals yjat are included in fairly complex ICs with lots of ancillary components in feedback and protection circuitry - at least in CRT VDUs from the last 10+ years.

I doubt this - the vertical output is in an integrated IC, but the horizontal output is normally just a transistor, often with a built-in diode across the collector-emitter, but in the direction such that it won't bother you in any sensible circuit. They are mostly pretty slow, since they're high voltage.

> I have no doubt some RF can be teased out of these, but it seems to me it would be at the price of major design complications.

Or you could say that you would get a sense of accomplishment when you've succeeded. Some of the transistors are mot so bad - e.g. I got a few 2SB772 (PNP) and 2SD882 (NPN) (10-Watt 30V, 3A, fT>80MHz) transistors out of a monitor, that'd be OK for a QRP transmitter I think.

> The advantage of tube finals was that their high-voltage low-current and low-capacitance nature lent itself to functioning also at higher frequencies than those of typical video circuits.

I did find a 2SC3675, which has an output capacitance of only 2.8pF and a VCEO of 900V. It is slowish (fT=6MHz), so I might use it as a cascode in a high voltage audio amplifier for driving electrostatic headphones.

The video amplifiers in a monitor have to be pretty fast for high resolution signals, and often these are discrete transistors to handle the power. I got some 2SC2682 devices out of monitors - 180V, 3.2pF, fT=200MHz, 10W - a few of these could make a useful amount of RF, I reckon.

> Next I'll look into TV distribution amps. I remember that transistors
> in those were designed to linearly pump a lot of different signals up
> to UHF, and that they tended to run hot - and 24/7.

Good luck!

Chris

From -7861829675452732696
X-Google-Thread: fc2a5,4270e94220292831
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Spam Trap <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Off topic .. what's the best reception portable am/fm for Camping...
Date: 30 Jul 2007 23:14:41 GMT
Lines: 20
Message-ID: <slrnfass71.1vg0.bit-bucket@shell.config.com>
References: <sG9ri.13919$Mw2.99409@weber.videotron.net>
<WNsri.316$k36.195751@wagner.videotron.net> <f8llv9$8nd$1@theodyn.ncf.ca>
X-Trace: individual.net Sh23sy+6TdBEETVe6OcK0wq53Sz7IuIV7yCwrnYNmXThUhV6ZE
Cancel-Lock: sha1:vJKuiTgKxFVMzhm0kYpeRig31wk=
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news2.google.com rec.radio.amateur.homebrew:648

On 30 Jul 2007 21:42:01 GMT, Michael Black wrote:
> "noname" (willnotwork@sorry.com) writes:
>> come on guys,.... someone must know a good and cheap radio to
>> recommand....... Please...
>
> Because it is off topic.

And, it's not a STEENKIN chat room. The thousands of amateur radio
operators that follow this ng aren't following the postings on a
minute by minute basis.

What made the OP think that The Answer -- much less _any_ answer --
should be forthcoming in an hour or two? It's probably _days_ before a
majority of rrah participants read any individual post.

Now, with the selfish, whining followup by the OP to his own post, there
will be doubtless _far fewer_ , if any, followups by folks who might've
had a good recommendation (even tho' it's OT.)

Jonesy W3DHJ

From 8216990658667689652
X-Google-Thread: fc2a5,4270e94220292831

```
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!z24g2000prh.googlegroups.com!not-for-
mail
From:  Arv-K7HKL <arvid.evans@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Off topic .. what's the best reception portable am/fm for Camping...
Date: Mon, 30 Jul 2007 16:52:19 -0700
Organization: http://groups.google.com
Lines: 35
Message-ID: <1185839539.985270.232400@z24g2000prh.googlegroups.com>
References: <sG9ri.13919$Mw2.99409@weber.videotron.net>
   <WNsri.316$k36.195751@wagner.videotron.net>
NNTP-Posting-Host: 65.101.78.212
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1185839540 390 127.0.0.1 (30 Jul 2007 23:52:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 30 Jul 2007 23:52:20 +0000 (UTC)
In-Reply-To: <WNsri.316$k36.195751@wagner.videotron.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.4) Gecko/
20070601 Firefox/2.0.0.4 (Swiftfox),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: z24g2000prh.googlegroups.com; posting-host=65.101.78.212;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:649

On 30 Jul, 15:32, "noname" <willnotw...@sorry.com> wrote:
> come on guys,.... someone must know a good and cheap radio  to
> recommand....... Please...
>
> Stef.
>
> "noname" <willnotw...@sorry.com> wrote in message
>
> news:sG9ri.13919$Mw2.99409@weber.videotron.net...> Hi. I'm sorry if this is off
topic here but I thought some of you would
> > know.
>
> > I'm looking for a small portable battery operated AM/FM radio to bring
> > with me on  hunting/fishing trips, so I guess what I'm looking for is a
> > radios with a strong receiver to catch as many station as possible. I'm
> > not looking for better sound, just a basic radio   I know any radio won't
> > work if you are too far away,  but that won't be my case. with the radio I
> > have now , I can catch like 1 FM station whenb weather permits, and 4 or 5
> > AM stations,... I would like to increase these numbers as much as
> > possible..
>
> > Can you recommend a good brand/model please?
>
> > regards
> > stef, Montreal, Canada.
```

Stef in Montreal

This is the Amateur Radio "Homebrewing" focus group. So to bring your request a bit more "on-topic", why not design and build your own radio equipment? Think of the fun and sense of satisfaction you could get from using a radio set that you have designed and built. It's easy...we do it all the time.

Arv - K7HKL

```
From 6816965759032644668
X-Google-Thread: fc2a5,4270e94220292831
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
140.99.99.194.MISMATCH!news-in-02.newsfeed.easynews.com!easynews.com!easynews!
hwmnpeer01.phx!news.highwinds-media.com!hw-filter.phx!newsfe12.phx.POSTED!
53ab2750!not-for-mail
From: "The Shadow" <Repose@Zilch.com>
Newsgroups: rec.radio.amateur.homebrew
References: <sG9ri.13919$Mw2.99409@weber.videotron.net>
<WNsri.316$k36.195751@wagner.videotron.net>
Subject: Re: Off topic .. what's the best reception portable am/fm for Camping...
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <livri.24531$zz2.11290@newsfe12.phx>
Date: Mon, 30 Jul 2007 17:27:40 -0700
NNTP-Posting-Host: 72.197.13.209
X-Complaints-To: admin@cox.net
X-Trace: newsfe12.phx 1185841425 72.197.13.209 (Mon, 30 Jul 2007 17:23:45 MST)
NNTP-Posting-Date: Mon, 30 Jul 2007 17:23:45 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:650
```

Try   rec.radio.shortwave   news group
Many there are knowledgeable on the latest small radios
Lamont

Someone wrote

> come on guys,.... someone must know a good and cheap radio to
> recommand....... Please...

```
From 4916650210038235963
X-Google-Thread: fc2a5,4270e94220292831
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!out02b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
wesley.videotron.net!weber.videotron.net.POSTED!not-for-mail
From: "noname" <willnotwork@sorry.com>
Newsgroups: rec.radio.amateur.homebrew
References: <sG9ri.13919$Mw2.99409@weber.videotron.net>
<WNsri.316$k36.195751@wagner.videotron.net>
<1185839539.985270.232400@z24g2000prh.googlegroups.com>
Subject: Re: Off topic .. what's the best reception portable am/fm for Camping...
Lines: 60
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <Ervri.43802$Mw2.264936@weber.videotron.net>
Date: Mon, 30 Jul 2007 20:34:15 -0400
NNTP-Posting-Host: 66.131.87.105
X-Complaints-To: abuse@videotron.ca
X-Trace: weber.videotron.net 1185842020 66.131.87.105 (Mon, 30 Jul 2007 20:33:40
EDT)
NNTP-Posting-Date: Mon, 30 Jul 2007 20:33:40 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:651


"Arv-K7HKL" <arvid.evans@gmail.com> wrote in message
news:1185839539.985270.232400@z24g2000prh.googlegroups.com...
> On 30 Jul, 15:32, "noname" <willnotw...@sorry.com> wrote:
>> come on guys,.... someone must know a good and cheap radio  to
>> recommand....... Please...
>>
>> Stef.
>>
>> "noname" <willnotw...@sorry.com> wrote in message
>>
>> news:sG9ri.13919$Mw2.99409@weber.videotron.net...> Hi. I'm sorry if this
>> is off topic here but I thought some of you would
>> > know.
>>
>> > I'm looking for a small portable battery operated AM/FM radio to bring
>> > with me on  hunting/fishing trips, so I guess what I'm looking for is a
>> > radios with a strong receiver to catch as many station as possible. I'm
>> > not looking for better sound, just a basic radio   I know any radio
>> > won't
>> > work if you are too far away,  but that won't be my case. with the
>> > radio I
>> > have now , I can catch like 1 FM station whenb weather permits, and 4
>> > or 5
>> > AM stations,... I would like to increase these numbers as much as
>> > possible..
>>
>> > Can you recommend a good brand/model please?
>>
>> > regards
>> > stef, Montreal, Canada.
>
> Stef in Montreal
>
> This is the Amateur Radio "Homebrewing" focus group.  So to bring your
> request a bit more "on-topic", why not design and build your own radio
> equipment?  Think of the fun and sense of satisfaction you could get
> from using a radio set that you have designed and built.  It's
> easy...we do it all the time.
>
> Arv - K7HKL
>
------------------

to Arv - K7HKL , thank you for your suggestion. Right now I can't really
commit on building/studying a radio. But thank you very much for being kind,
willing to help,  and for your Proactive attitude.



And please people, may this tread die right now so no one else (not
including you sir) get irritated by my diabolic mistake ..



Regards

Stef.





From -1825117289386749610
X-Google-Thread: fc2a5,4270e94220292831
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out03a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
wesley.videotron.net!weber.videotron.net.POSTED!not-for-mail
From: "noname" <willnotwork@sorry.com>
Newsgroups: rec.radio.amateur.homebrew
References: <sG9ri.13919$Mw2.99409@weber.videotron.net>
<WNsri.316$k36.195751@wagner.videotron.net> <livri.24531$zz2.11290@newsfe12.phx>
Subject: Re: Off topic .. what's the best reception portable am/fm for Camping...
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <YOvri.43806$Mw2.273900@weber.videotron.net>
Date: Mon, 30 Jul 2007 20:59:07 -0400
NNTP-Posting-Host: 66.131.87.105
X-Complaints-To: abuse@videotron.ca
X-Trace: weber.videotron.net 1185843512 66.131.87.105 (Mon, 30 Jul 2007 20:58:32 EDT)
NNTP-Posting-Date: Mon, 30 Jul 2007 20:58:32 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:652

:-)
Stef.

"The Shadow" <Repose@Zilch.com> wrote in message
news:livri.24531$zz2.11290@newsfe12.phx...
> Try   rec.radio.shortwave   news group
> Many there are knowledgeable on the latest small radios
> Lamont

From 7683086775215807036
X-Google-Thread: fc2a5,4270e94220292831
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news01.roc.ny.POSTED!53ab2750!not-for-mail
From: gwatts <gwatts@frontiernet.net>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Off topic .. what's the best reception portable am/fm for Camping...
References: <sG9ri.13919$Mw2.99409@weber.videotron.net>
In-Reply-To: <sG9ri.13919$Mw2.99409@weber.videotron.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 36
Message-ID: <wRvri.13111$B25.7338@news01.roc.ny>
X-Complaints-To: abuse-news@frontiernet.net
X-Trace:
52616e646f6d4956aa8b238aa2f708cbb34fb346320b3dec7e72a8441ef2a49ac6806ea70ca73f00a1cfa05764dc34ebf2a430338bda1ca9e9c48afd2c2be6baaeaf6d22cdda4a40157a86ac2f22c6750f71c678708935436ed0abad7e8336f0f1d81032cc87b6509ed268faf8596df6
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your complaint properly.
NNTP-Posting-Date: Tue, 31 Jul 2007 01:01:16 UTC
Date: Tue, 31 Jul 2007 01:01:16 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:653

noname wrote:

> Hi. I'm sorry if this is off topic here but I thought some of you would
> know.
>
> I'm looking for a small portable battery operated AM/FM radio to bring with
> me on hunting/fishing trips, so I guess what I'm looking for is a radios
> with a strong receiver to catch as many station as possible. I'm not looking
> for better sound, just a basic radio   I know any radio won't work if you
> are too far away, but that won't be my case. with the radio I have now , I
> can catch like 1 FM station whenb weather permits, and 4 or 5 AM
> stations,... I would like to increase these numbers as much as possible..
>
> Can you recommend a good brand/model please?
>
> regards
> stef, Montreal, Canada.

For FM in remote areas you'll need an external antenna, like a
telescoping whip. For AM you most likely won't need an external
antenna, I've heard AM stations from a thousand or more miles away late
at night all snuggly in my sleeping bag.

Take a look at
http://www.ambientweather.com/mi300wobare.html
It does more than just AM and FM but it's only $26 and available in five
colors.

Something like
http://www.ambientweather.com/etgrframrafl.html
never needs batteries and can charge up your cellphone at the price of
$50 and some elbow grease.

The Grundig/Eton brand has never disappointed me, you may want to try
rec.radio.shortwave as suggested for more in-depth suggestions.

Enjoy!

From -8125581518500588392
X-Google-Thread: fc2a5,e68c31b5ed9530fb,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m37g2000prh.googlegroups.com!not-for-mail
From: Trekker <bjhaig@ourheritage.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Radio reception gone wacky
Date: Mon, 30 Jul 2007 21:34:10 -0700
Organization: http://groups.google.com
Lines: 10
Message-ID: <1185856450.439238.276460@m37g2000prh.googlegroups.com>
NNTP-Posting-Host: 70.65.175.166
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"

```
X-Trace: posting.google.com 1185856451 15883 127.0.0.1 (31 Jul 2007 04:34:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 31 Jul 2007 04:34:11 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; PPC Mac OS X; en) AppleWebKit/419.2.1
(KHTML, like Gecko) Safari/419.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m37g2000prh.googlegroups.com; posting-host=70.65.175.166;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:654
```

A month ago a new FM Radio station was launched in our city. Since
that time my car radio (2 years old) had been hijacked. Whenever I
pick another station it plays for a split second then the radio scans
to the new station. Can you tell me what it going on and what I can
do about it?

Thanks

Bruce

```
From 8539540200841741316
X-Google-Thread: fc2a5,ead5966f46518bd8
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-
mail
From:  peterpion@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube Power Oscillator not working properly
Date: Tue, 31 Jul 2007 06:40:06 -0700
Organization: http://groups.google.com
Lines: 78
Message-ID: <1185889206.983759.95140@q75g2000hsh.googlegroups.com>
References: <1185369660.545823.196480@o61g2000hsh.googlegroups.com>
   <f89ndm$nf4$1@aioe.org>
   <1185443575.755143.180450@x40g2000prg.googlegroups.com>
   <1185455748.492992.219590@q75g2000hsh.googlegroups.com>
   <1185476334.293136.303950@q75g2000hsh.googlegroups.com>
   <1185538215.220629.183380@22g2000hsm.googlegroups.com>
   <1185614195.538584.59830@i13g2000prf.googlegroups.com>
NNTP-Posting-Host: 194.36.21.132
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1185889207 12198 127.0.0.1 (31 Jul 2007 13:40:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 31 Jul 2007 13:40:07 +0000 (UTC)
In-Reply-To: <1185614195.538584.59830@i13g2000prf.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.4) Gecko/
20060601 Firefox/2.0.0.4 (Ubuntu-edgy),gzip(gfe),gzip(gfe)
```

```
Complaints-To: groups-abuse@google.com
Injection-Info: q75g2000hsh.googlegroups.com; posting-host=194.36.21.132;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:655
```

Sorry for the hiatus, I had an exam to submit over the weekend and work is being a time hog at the moment.

Re something with a few watts of drive, I do have a couple of ham friends, who might be able to provide this if I brought the project to them. Only problem is that the power supplies et al are spread over the workshop at the moment, but this might be a good route if I cant get any further. It has occured to me that I might have broken the tube, melted the grid or something, so this could prove the tube works.

I have studied up on the tube capacitances and the interaction in the circuit, and decided to rework the project into a different design - either hartley or colpitts. Have come across a patent also that describes exactly what I want to do (tube amp for plasma excitation), and they use a modified hartley. But looking at the colpitts, I like the way that the tube capacitances are in parallel with the tank caps. They should swamp the tube values I think.

Re the 12V supply, the idea is that the resistor biases the grid (at DC) to ground, the cap smooths the current through the resistor, and as electrons flow into the grid and make it more negative, at 12V the diode starts to conduct and clamps the DC grid bias at -12V. Of course, the tube end of the grid circuit is being driven high and low by the coil, so this shouldent clamp the grid voltages - just the grid DC level (bias). Thats the idea anyway - might be missing something. I have checked grid current and it peaks at about 50mA with the voltage cranked up to about 2kV IIRC.

Re choosing 25MHz, I originally was shooting for 50MHz but had no joy getting the circuit to work. It worked great at 5 MHz or so, so I felt a compromise would be 25MHz. So thats where I am currently aiming for. The higher the frequency the less reactance I will get from the 'load' if I drive it capacitvley which is what I want to do (because of striking the discharge, which is difficult to do inductivley). There is a need to seal the plasma tube for certain experiments to raise the pressure in it, and some of the substances I wish to excite are not compatible with metals (an example is sulphur, which is a major part of the experiments, and its performance is described in various patents - its usually excited with microwaves in the current art, but I want to use very small discharge chambers which make this hard) so I cannot have any metal in the discharge envelope (I also have the kit onhand to make these quartz glass capsules).

As you say I have heard of 13.56MHz also as a standard frequency for this kind of work, but I am aiming higher for the above loading reasons.

Now, as for grounding the grid, I have considered it, but have not come across any designs of oscillators where the grid is grounded, and I dont have enough confidence in my circuit redesign skills to work out the details myself. I could of course work out the circuit, but what Z will be where, and how is this related to that phasewise - an example is the increased capacitance from the anode to the case (which is now the grid). Just dont know.

I will get some photos of the rebuilt thing once its a colpitts, I am also replacing the caps with some homemade ones made from heavy copper foil, since I am a bit unsure of the quality of the russian doorknobs I am currently using.

Finally, is this a uni project - well, not yet, but I am a physics undergrad and am studying some related fields, so you could say its related. It also relates to some harder core physics experiments I want to start soon, with a cyclotron being one project, which I need powerful RF drive for. Its all great fun - unless you cant get your damn RF power house to work!

Current interest for this project relates to finding a discharge lamp (high intensity) whos spectrum compliments the zooanthellae photosynthesis absorbtion of marine corals. I could write a ream about this but its off topic so I will leave it at that for the moment. But its a means to an end currently - although I would like to have a power oscillator capable of spanning 1 to 100 MHz at several hundred watts for plenty of other experiments.

Thanks for the contributions so far. Hope to nail this one soon.

```
From -3107664240962159174
X-Google-Thread: f64c6,53994fecc1a553db,start
X-Google-Thread: fc2a5,53994fecc1a553db,start
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder3.cambrium.nl!feeder5.cambrium.nl!
feed.tweaknews.nl!217.73.144.44.MISMATCH!feeder.ecngs.de!ecngs!feeder2.ecngs.de!
feeder.erje.net!aioe.org!not-for-mail
From: "G \"Guglielmo\" Evans G4SDW" <no.spam@thank.you>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: A new use for dental floss
Date: Tue, 31 Jul 2007 15:42:27 +0100
Organization: Aioe.org NNTP Server
Lines: 13
Message-ID: <f8nhom$30i$1@aioe.org>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-Priority: 3
```

X-MSMail-Priority: Normal
Xref: g2news2.google.com uk.radio.amateur:9902 rec.radio.amateur.homebrew:656

Having been donated a homebrew "L" antenna tuner, with an unidentified roller coaster (about 1 1/4" in diameter, with a plastic facia turns counter marked "antenna loading" with the plastic facia looking like a CRT's barrel distortion, any ideas as to its origin, anyone?) but a fairly large domestic tuning capacitor, I needed to remove the gunge that had accumulated after some years in a garden shed.

Lo! And behold! An ideal tool is to be found in dental floss, a bit difficult to thread it between to start with, (hook it with a paper clip) but once going, it's in its element!

From 1861558149271260281
X-Google-Thread: fc2a5,e68c31b5ed9530fb
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!z28g2000prd.googlegroups.com!not-for-mail
From: w0jrm <jimrob@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio reception gone wacky
Date: Tue, 31 Jul 2007 15:42:52 -0000
Organization: http://groups.google.com
Lines: 44
Message-ID: <1185896572.157375.200350@z28g2000prd.googlegroups.com>
References: <1185856450.439238.276460@m37g2000prh.googlegroups.com>
NNTP-Posting-Host: 69.66.231.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1185896574 949 127.0.0.1 (31 Jul 2007 15:42:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 31 Jul 2007 15:42:54 +0000 (UTC)
In-Reply-To: <1185856450.439238.276460@m37g2000prh.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.4) Gecko/20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: z28g2000prd.googlegroups.com; posting-host=69.66.231.1;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:657

On Jul 30, 11:34 pm, Trekker <bjh...@ourheritage.net> wrote:
> A month ago a new FM Radio station was launched in our city. Since
> that time my car radio (2 years old) had been hijacked. Whenever I
> pick another station it plays for a split second then the radio scans
> to the new station. Can you tell me what it going on and what I can
> do about it?

Perhaps this is what's causing your problem?

http://www.ksat.com/technology/13762279/detail.html

(quoted text)

Drivers don't have to adjust their car's radio dial, because some Des Moines stations are changing themselves.

A new digital signal is causing a few glitches for some car radios.

The problem started a few weeks ago. Fans of 93.3 FM and 102.5 FM noticed their radio station presets would sometimes refuse to stay on the right station.

Drivers would find that when they push their preset button that is set to 93.3 FM, it stays for a second and then switches back to 102.5 FM by itself.

GM and Chrysler dealers are trying to repair car radios in Des Moines.

It turns out it's not the radio, it's the signal.

Des Moines Radio Group, which owns the two stations, just began broadcasting a digital signal.

In some newer cars, that signal will tell drivers what song is playing and the artist. It's that signal that is confusing some radios.

"There are always quirks and growing pains with new technology, but this is the strangest I've seen," said Joe Farrington, chief engineer of the Des Moines Radio Group.

The radio station said it is aware of the problem and will replace some equipment will have it fixed in a month or so.

From 662844739343967377
X-Google-Thread: f64c6,53994fecc1a553db
X-Google-Thread: fc2a5,53994fecc1a553db
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!
news-out.ntli.net!newsrout1-gui.ntli.net!ntli.net!news.highwinds-media.com!
newspeer1-win.ntli.net!newsfe6-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "doug" <doug.morsit@virgin.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <f8nhom$30i$1@aioe.org>
Subject: Re: A new use for dental floss

Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <F9Rri.15892$sI3.1898@newsfe6-gui.ntli.net>
Date: Wed, 01 Aug 2007 01:16:21 GMT
NNTP-Posting-Host: 62.255.48.3
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe6-gui.ntli.net 1185930981 62.255.48.3 (Wed, 01 Aug 2007 02:16:21 BST)
NNTP-Posting-Date: Wed, 01 Aug 2007 02:16:21 BST
Organization: Virgin Net Usenet Service
Xref: g2news2.google.com uk.radio.amateur:9958 rec.radio.amateur.homebrew:658
X-Original-Bytes: 1647

"G "Guglielmo" Evans G4SDW" <no.spam@thank.you> wrote in message news:f8nhom$30i$1@aioe.org...
> Having been donated a homebrew "L" antenna tuner, with
> an unidentified roller coaster (about 1 1/4" in diameter, with
> a plastic facia turns counter marked "antenna loading" with the
> plastic facia looking like a CRT's barrel distortion, any ideas
> as to its origin, anyone?)

if it has a black plastic face it sounds like the one from old Collins TCS 12 u.s.navy   tx. got one here also! also brought back waves of nostalgia from the days of REAL hammery!

doug. gm3oav.

From 33815399413604730
X-Google-Thread: f64c6,53994fecc1a553db
X-Google-Thread: fc2a5,53994fecc1a553db
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.newsland.it!aioe.org!not-for-mail
From: "G \"Guglielmo\" Evans G4SDW" <no.spam@thank.you>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: A new use for dental floss
Date: Wed, 1 Aug 2007 08:50:10 +0100
Organization: Aioe.org NNTP Server
Lines: 30
Message-ID: <f8pdvm$vs7$1@aioe.org>
References: <f8nhom$30i$1@aioe.org> <F9Rri.15892$sI3.1898@newsfe6-gui.ntli.net>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com uk.radio.amateur:9974 rec.radio.amateur.homebrew:659

"doug" <doug.morsit@virgin.net> wrote in message
news:F9Rri.15892$sI3.1898@newsfe6-gui.ntli.net...
> "G "Guglielmo" Evans" <no.spam@thank.you> wrote in message
> news:f8nhom$30i$1@aioe.org...
>> Having been donated a homebrew "L" antenna tuner, with
>> an unidentified roller coaster (about 1 1/4" in diameter, with
>> a plastic facia turns counter marked "antenna loading" with the
>> plastic facia looking like a CRT's barrel distortion, any ideas
>> as to its origin, anyone?)
> if it has a black plastic face it sounds like the one from old Collins TCS
> 12 u.s.navy   tx. got one here also! also brought back waves of
> nostalgia from the days of REAL hammery!

Doug, brilliant...in response to your heads up, a quick google brought
up numerous pictures to confirm it.

Thank-you...arigato gozaimus!

The next question for all is....how to clean up the green verdigris that is
on some parts of the coil, and also the brass pulley that runs up
and down the coil.....ie...how to clean it but without doing damage
for the future. (And I suppose that means that taking that exercise with
yesterday's antenna exercise that in the space of 24 hours I will
have done everything that Mrs.Nugatory has ever done, plus
all the other experiments (including some mistakes about
which I'm not the least embarrassed) as well!)

From -4139352101532348048
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!63.218.45.10!
nx01.iad01.newshosting.com!newshosting.com!zen.net.uk!demorgan.zen.co.uk!
prichard.zen.co.uk.POSTED!not-for-mail
From: "Robin" <me@here.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <f8eben$55g$1@aioe.org> <f8lc9v$mvt$1@aioe.org>
Subject: Re: USB (the other one!) A2D converters?
Date: Tue, 31 Jul 2007 22:19:41 +0100

X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Lines: 47
Message-ID: <46b0b2c2$0$31722$db0fefd9@news.zen.co.uk>
Organization: Zen Internet
NNTP-Posting-Host: 217.155.205.177
X-Trace: 1185985218 prichard.zen.co.uk 31722 217.155.205.177:3307
X-Complaints-To: abuse@zen.co.uk
Xref: g2news2.google.com uk.radio.amateur:10046 rec.radio.amateur.homebrew:660

"G "Guglielmo" Evans G4SDW" <no.spam@thank.you> wrote in message
news:f8lc9v$mvt$1@aioe.org...
>
> "G "Guglielmo" Evans GW4SDW" <no.spam@thank.you> wrote in message
> news:f8eben$55g$1@aioe.org...
>> Does anyone have experience and/or recommendations
>> for analogue and digital I/O interfaces based on the Universal
>> Serial Bus (USB)?
>>
>> Just an idea for the genesis of a homebrew spectrum analyser.
>
> Next consideration....not having to hand any components or
> experience of the broadcast TV band (0.4 - 1GHz?) I wonder
> what tuners and mixers are fitted to modern TVs and if anyone
> can recommend a tuner separate from a main board that
> might be used.
>
> Also, where tuners are driven by I2C and similar busses, are
> they channelised to fit the standard TV channels, or do they
> have a delta frequency, say, 10kHz, that might be useful
> for a spectrum analyser?
>

Maybe you could look at tuner boards form an old VCR, On VCR's Circa 1990
the tuners were a separate board, Older tuners were simply fed by a PWM
output from the display / timer CPU that was then fed to an amplifier/
smoothing stage that then gave a 36V down to 2V DC voltage to select
frequency, they were analogue tuners, so not stepped, there was usually
another line to the tuner to disable the AFT lock that was used when
scanning for new channels.
We used to take the VCR tuner board, put it in a box with a PSU, pin the
AFT lock line to 5V to disable AFT then use a 10K pot with a 2K or 3K
fixed R on the 0V leg, the wiper to the collector of the transistor that was
after the PWM input line.
The modules used in the VCR's were usually Mitsumi or Alps, and if you get
hold of an European one. then you can tune VHF and UHF with it, but you will
need to apply 5V to the band switching pins on the tuner. and yes it can be
used as a basic spectrum analyser, but you may have to find a way to disable
the AGC circuits.
Also the tuner boards rely on the RF output modulator / pass though unit on

the back sockets of the VCR having considerable gain, without the modulator, the signal would be weak.

```
From 2114382873825193616
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!x40g2000prg.googlegroups.com!not-for-
mail
From:  Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
Date: Wed, 01 Aug 2007 10:44:56 -0700
Organization: http://groups.google.com
Lines: 10
Message-ID: <1185990296.931236.46910@x40g2000prg.googlegroups.com>
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
   <46a73770$0$32580$4c368faf@roadrunner.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1185990297 5173 127.0.0.1 (1 Aug 2007 17:44:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 1 Aug 2007 17:44:57 +0000 (UTC)
In-Reply-To: <46a73770$0$32580$4c368faf@roadrunner.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: x40g2000prg.googlegroups.com; posting-host=216.203.30.4;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.cb:2333 rec.radio.amateur.equipment:508
rec.radio.amateur.homebrew:661
```

On Jul 25, 6:43 am, Me Know <m...@here.now> wrote:

> Telstar Electronics wrote:
> >http://www.telstar-electronics.com/default_files/NewProductDevelopmen...
>
> Quit spamming the newsgroups!

Temper temper... you know your blood pressure. You should take better care of yourself.
See the NEW VoiceMax Speech Processor at www.telstar-electronics.com

From 4221166701275456539
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 01 Aug 2007 15:20:40 -0500
Date: Wed, 01 Aug 2007 16:20:40 -0400
From: NoMoreSpam <Disgustedham@qrparci.org>
User-Agent: Thunderbird 1.5.0.8 (X11/20060911)
MIME-Version: 1.0
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
<46a73770$0$32580$4c368faf@roadrunner.com>
<1185990296.931236.46910@x40g2000prg.googlegroups.com>
In-Reply-To: <1185990296.931236.46910@x40g2000prg.googlegroups.com>
X-Enigmail-Version: 0.94.1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-ID: <OKadnWW3cumFdi3bnZ2dnUVZ_jOdnZ2d@comcast.com>
Lines: 11
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 76.98.102.223
X-Trace: sv3-
xUFQTFiQLAm+RT+cEzzx6hQdaLNyHd29tBzujT5kOknrCMFUnmRfKjpN5cZKdRh0v3W586c2sQF3ijv!
KNdEVptnVNdD50rqZLa7n40Rvbyr197AWOU4BKErEdEhYJJ6CymIfHl7E7KX5bC+ZWAy952uAMp/!
lz37+HdW7Su7a9geSrq9oj5LsE2saw==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.cb:2340 rec.radio.amateur.equipment:509
rec.radio.amateur.homebrew:662

Telstar Electronics wrote:
> On Jul 25, 6:43 am, Me Know <m...@here.now> wrote:
>> Telstar Electronics wrote:
>>> http://www.telstar-electronics.com/default_files/NewProductDevelopmen...
>> Quit spamming the newsgroups!
>
> Temper temper... you know your blood pressure. You should take better
> care of yourself.
> See the NEW VoiceMax Speech Processor at www.telstar-electronics.com
>
What a bunch of CBer crap!

From 6045449318060904217
X-Google-Thread: f64c6,53994fecc1a553db
X-Google-Thread: fc2a5,53994fecc1a553db
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!feeder3.cambrium.nl!feeder1.cambrium.nl!feed.tweaknews.nl!news2.euro.net!news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!newsfe3-win.ntli.net.POSTED!53ab2750!not-for-mail
Reply-To: "mikeFNB" <mikefnb@moc.dlrowltn>
From: "mikeFNB" <mikefnb@moc.dlrowltn>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <f8nhom$30i$1@aioe.org> <F9Rri.15892$sI3.1898@newsfe6-gui.ntli.net> <f8pdvm$vs7$1@aioe.org>
Subject: Re: A new use for dental floss
Lines: 41
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <Gu8si.8212$Db6.5593@newsfe3-win.ntli.net>
Date: Wed, 01 Aug 2007 23:15:50 GMT
NNTP-Posting-Host: 86.9.145.189
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe3-win.ntli.net 1186010150 86.9.145.189 (Thu, 02 Aug 2007 00:15:50 BST)
NNTP-Posting-Date: Thu, 02 Aug 2007 00:15:50 BST
Organization: ntl Cablemodem News Service
Xref: g2news2.google.com uk.radio.amateur:10108 rec.radio.amateur.homebrew:663

brasso and a tooth brush!
or brown sauce!

mike

"G "Guglielmo" Evans G4SDW" <no.spam@thank.you> wrote in message
news:f8pdvm$vs7$1@aioe.org...
>
> "doug" <doug.morsit@virgin.net> wrote in message
> news:F9Rri.15892$sI3.1898@newsfe6-gui.ntli.net...
>> "G "Guglielmo" Evans" <no.spam@thank.you> wrote in message
>> news:f8nhom$30i$1@aioe.org...
>>> Having been donated a homebrew "L" antenna tuner, with
>>> an unidentified roller coaster (about 1 1/4" in diameter, with
>>> a plastic facia turns counter marked "antenna loading" with the
>>> plastic facia looking like a CRT's barrel distortion, any ideas
>>> as to its origin, anyone?)
>> if it has a black plastic face it sounds like the one from old Collins
>> TCS
>> 12 u.s.navy   tx. got one here also! also brought back waves of
>> nostalgia from the days of REAL hammery!

>
> Doug, brilliant...in response to your heads up, a quick google brought
> up numerous pictures to confirm it.
>
> Thank-you...arigato gozaimus!
>
> The next question for all is....how to clean up the green verdigris that
> is
> on some parts of the coil, and also the brass pulley that runs up
> and down the coil.....ie...how to clean it but without doing damage
> for the future. (And I suppose that means that taking that exercise with
> yesterday's antenna exercise that in the space of 24 hours I will
> have done everything that Mrs.Nugatory has ever done, plus
> all the other experiments (including some mistakes about
> which I'm not the least embarrassed) as well!)
>
>
>

```
From -6035809505202415904
X-Google-Thread: f64c6,53994fecc1a553db
X-Google-Thread: fc2a5,53994fecc1a553db
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!6bb7efb4!not-for-mail
From: "Richard Knoppow" <dickburk@ix.netcom.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <f8nhom$30i$1@aioe.org> <F9Rri.15892$sI3.1898@newsfe6-gui.ntli.net>
<f8pdvm$vs7$1@aioe.org> <Gu8si.8212$Db6.5593@newsfe3-win.ntli.net>
Subject: Re: A new use for dental floss
Lines: 51
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <mC9si.13954$Od7.9449@newsread1.news.pas.earthlink.net>
Date: Thu, 02 Aug 2007 00:32:18 GMT
NNTP-Posting-Host: 4.232.192.221
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1186014738 4.232.192.221 (Wed, 01 Aug
2007 17:32:18 PDT)
NNTP-Posting-Date: Wed, 01 Aug 2007 17:32:18 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com uk.radio.amateur:10111 rec.radio.amateur.homebrew:664
```

"mikeFNB" <mikefnb@moc.dlrowltn> wrote in message

```
news:Gu8si.8212$Db6.5593@newsfe3-win.ntli.net...
> brasso and a tooth brush!
> or brown sauce!
>
> mike
>
> "G "Guglielmo" Evans G4SDW" <no.spam@thank.you> wrote in
> message news:f8pdvm$vs7$1@aioe.org...
>>
>> "doug" <doug.morsit@virgin.net> wrote in message
>> news:F9Rri.15892$sI3.1898@newsfe6-gui.ntli.net...
>>> "G "Guglielmo" Evans" <no.spam@thank.you> wrote in
>>> message
>>> news:f8nhom$30i$1@aioe.org...
>>>> Having been donated a homebrew "L" antenna tuner, with
>>>> an unidentified roller coaster (about 1 1/4" in
>>>> diameter, with
>>>> a plastic facia turns counter marked "antenna loading"
>>>> with the
>>>> plastic facia looking like a CRT's barrel distortion,
>>>> any ideas
>>>> as to its origin, anyone?)
>>>
    Snipping here....
     Actually, toothpaste works very well. Its a detergent
and very mild abrasive which will often remove oxidation
without taking off too much metal. Brasso is too strong and
leaves a residue behind. There are cleaners with reducing
agents such as _Barkeepers Friend_ which are quite effective
in removing oxidation but they may also remove all the
plating where something has only a thin plating of silver or
chrome. Remember, the oxidation itself is metal that has
been removed chemically from the surface of the object. I
don't know of any way of replacing it other than replating
which is not always practical. Your roller inductor is/was
very likely silver plated.
    Use the mildest cleaner first and more powerful agents
only if it doesn't work.
    A toothbrush is an excellent cleaning tool.


--
---
Richard Knoppow
Los Angeles, CA, USA
dickburk@ix.netcom.com





From -5277055769226496521
X-Google-Thread: 106d41,bf0c48af9a5b45bb
```

X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i38g2000prf.googlegroups.com!not-for-mail
From: Arv-K7HKL <arvid.evans@gmail.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
Date: Wed, 01 Aug 2007 20:16:38 -0700
Organization: http://groups.google.com
Lines: 24
Message-ID: <1186024598.054512.272230@i38g2000prf.googlegroups.com>
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
   <46a73770$0$32580$4c368faf@roadrunner.com>
   <1185990296.931236.46910@x40g2000prg.googlegroups.com>
   <OKadnWW3cumFdi3bnZ2dnUVZ_jOdnZ2d@comcast.com>
NNTP-Posting-Host: 65.101.78.212
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1186024600 25362 127.0.0.1 (2 Aug 2007 03:16:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 2 Aug 2007 03:16:40 +0000 (UTC)
In-Reply-To: <OKadnWW3cumFdi3bnZ2dnUVZ_jOdnZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686 (x86_64); en-US; rv:1.8.1.4) Gecko/20070509 SeaMonkey/1.1.2,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i38g2000prf.googlegroups.com; posting-host=65.101.78.212;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.cb:2342 rec.radio.amateur.equipment:513 rec.radio.amateur.homebrew:665

On 1 Aug, 14:20, NoMoreSpam <Disgusted...@qrparci.org> wrote:
> Telstar Electronics wrote:
> > On Jul 25, 6:43 am, Me Know <m...@here.now> wrote:
> >> Telstar Electronics wrote:
> >>>http://www.telstar-electronics.com/default_files/NewProductDevelopmen...
> >> Quit spamming the newsgroups!
>
> > Temper temper... you know your blood pressure. You should take better
> > care of yourself.
> > See the NEW VoiceMax Speech Processor atwww.telstar-electronics.com
>
> What a bunch of CBer crap!

Quoted from the Telstar Web Site:

"Whether you're whispering or shouting, VoiceMax holds your
transceiver at 100% modulation allowing you to punch through heavy
channel traffic without sacrificing voice clarity."

So, it is for AM modulation systems. The previous poster was

right...it is CB equipment! Telstar says it is, so who's to argue
with that.
-.-

From -1269067683972069311
X-Google-Thread: fc2a5,4270e94220292831
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 01 Aug 2007 23:42:14 -0500
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <sG9ri.13919$Mw2.99409@weber.videotron.net>
<WNsri.316$k36.195751@wagner.videotron.net>
<1185839539.985270.232400@z24g2000prh.googlegroups.com>
<Ervri.43802$Mw2.264936@weber.videotron.net>
Subject: Re: Off topic .. what's the best reception portable am/fm for Camping...
Date: Wed, 1 Aug 2007 23:42:15 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <77adndD5EY86_SzbnZ2dnUVZ_ruqnZ2d@comcast.com>
Lines: 71
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.12.232.227
X-Trace: sv3-FKv0zGiqpyJPdC7+20dtbW4M+ExWdCvjKm/
tqHmcrG8Fi3Nw0pbwOT8X+UBrUl6G82Dz6zCNdONeItV!
Ho7bgjBLoxfgIt9oH+zrl604oVJes8zdUFY3aya2Cy79Yg4RWe849Vs20JKs0bT/1ic/utfuhngf!nLc/
wFPBLjvKf3/j/hcRXAV8ev9tRg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:666

rec.radio.shortwave would be a good newsgroup. Anyway, try to find a GE
Superradio II. Better than the III

Pete

"noname" <willnotwork@sorry.com> wrote in message
news:Ervri.43802$Mw2.264936@weber.videotron.net...
>
> "Arv-K7HKL" <arvid.evans@gmail.com> wrote in message
> news:1185839539.985270.232400@z24g2000prh.googlegroups.com...

>> On 30 Jul, 15:32, "noname" <willnotw...@sorry.com> wrote:
>>> come on guys,.... someone must know a good and cheap radio to
>>> recommand....... Please...
>>>
>>> Stef.
>>>
>>> "noname" <willnotw...@sorry.com> wrote in message
>>>
>>> news:sG9ri.13919$Mw2.99409@weber.videotron.net...> Hi. I'm sorry if this
>>> is off topic here but I thought some of you would
>>> > know.
>>>
>>> > I'm looking for a small portable battery operated AM/FM radio to bring
>>> > with me on hunting/fishing trips, so I guess what I'm looking for is
>>> > a
>>> > radios with a strong receiver to catch as many station as possible.
>>> > I'm
>>> > not looking for better sound, just a basic radio   I know any radio
>>> > won't
>>> > work if you are too far away, but that won't be my case. with the
>>> > radio I
>>> > have now , I can catch like 1 FM station whenb weather permits, and 4
>>> > or 5
>>> > AM stations,... I would like to increase these numbers as much as
>>> > possible..
>>>
>>> > Can you recommend a good brand/model please?
>>>
>>> > regards
>>> > stef, Montreal, Canada.
>>
>> Stef in Montreal
>>
>> This is the Amateur Radio "Homebrewing" focus group. So to bring your
>> request a bit more "on-topic", why not design and build your own radio
>> equipment? Think of the fun and sense of satisfaction you could get
>> from using a radio set that you have designed and built. It's
>> easy...we do it all the time.
>>
>> Arv - K7HKL
>>
> ------------------
>
> to Arv - K7HKL , thank you for your suggestion. Right now I can't really
> commit on building/studying a radio. But thank you very much for being
> kind, willing to help, and for your Proactive attitude.
>
>
>
> And please people, may this tread die right now so no one else (not
> including you sir) get irritated by my diabolic mistake ..
>
>

>
> Regards
>
> Stef.
>
>

From 3011820056560653290
X-Google-Thread: fc2a5,53994fecc1a553db
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
62.111.101.3.MISMATCH!news.germany.com!aioe.org!not-for-mail
From: Steve H <mycall@tfif.co.ukk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: A new use for dental floss
Date: Thu, 02 Aug 2007 08:34:44 +0100
Organization: Aioe.org NNTP Server
Lines: 23
Message-ID: <f8s1ek$lt6$2@aioe.org>
References: <f8nhom$30i$1@aioe.org> <F9Rri.15892$sI3.1898@newsfe6-gui.ntli.net>
<f8pdvm$vs7$1@aioe.org>
NNTP-Posting-Host: 4fRIdokwdJKQta2CLDXC6A.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
In-Reply-To:
User-Agent: Thunderbird 2.0.0.5 (Windows/20070716)
Xref: g2news2.google.com rec.radio.amateur.homebrew:667

G "Guglielmo" Evans GfourSDW wrote:

> The next question for all is....how to clean up the green verdigris that is
> on some parts of the coil, and also the brass pulley that runs up
> and down the coil.....ie...how to clean it but without doing damage
> for the future. (And I suppose that means that taking that exercise with
> yesterday's antenna exercise that in the space of 24 hours I will
> have done everything that Mrs.Nugatory has ever done, plus
> all the other experiments (including some mistakes about
> which I'm not the least embarrassed) as well!)
>
>
>

Give it a good clean with IPA first to get rid of the grime then one of the pan scourers intended for non stick pans usually removes most of the oxidization. Don't use anything too abrasive as the silver plating is can be rather thin.

Steve H

P.S. Sorry about having to change your call but the news server has it
down as a "bad word"

```
From -7868690258627016197
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!x35g2000prf.googlegroups.com!not-for-
mail
From:  Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
Date: Thu, 02 Aug 2007 02:51:46 -0700
Organization: http://groups.google.com
Lines: 9
Message-ID: <1186048306.394073.145910@x35g2000prf.googlegroups.com>
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
   <46a73770$0$32580$4c368faf@roadrunner.com>
   <1185990296.931236.46910@x40g2000prg.googlegroups.com>
   <OKadnWW3cumFdi3bnZ2dnUVZ_jOdnZ2d@comcast.com>
   <1186024598.054512.272230@i38g2000prf.googlegroups.com>
NNTP-Posting-Host: 76.197.227.42
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1186048306 26535 127.0.0.1 (2 Aug 2007 09:51:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 2 Aug 2007 09:51:46 +0000 (UTC)
In-Reply-To: <1186024598.054512.272230@i38g2000prf.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1; .NET
CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506;
InfoPath.2),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: x35g2000prf.googlegroups.com; posting-host=76.197.227.42;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.cb:2346 rec.radio.amateur.equipment:514
rec.radio.amateur.homebrew:668
```

On Aug 1, 10:16 pm, Arv-K7HKL <arvid.ev...@gmail.com> wrote:

> So, it is for AM modulation systems. The previous poster was
> right...it is CB equipment! Telstar says it is, so who's to argue
> with that.

VoiceMax works on AM, FM, or SSB modes.
See the NEW VoiceMax Speech Processor atwww.telstar-electronics.com

From 6270674410026206871
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e16g2000pri.googlegroups.com!not-for-mail
From: Denny <k8do@mailblocks.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
Date: Thu, 02 Aug 2007 04:26:21 -0700
Organization: http://groups.google.com
Lines: 11
Message-ID: <1186053981.555761.187580@e16g2000pri.googlegroups.com>
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
   <46a73770$0$32580$4c368faf@roadrunner.com>
   <1185990296.931236.46910@x40g2000prg.googlegroups.com>
   <OKadnWW3cumFdi3bnZ2dnUVZ_jOdnZ2d@comcast.com>
   <1186024598.054512.272230@i38g2000prf.googlegroups.com>
   <1186048306.394073.145910@x35g2000prf.googlegroups.com>
NNTP-Posting-Host: 97.84.159.244
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1186053982 10463 127.0.0.1 (2 Aug 2007 11:26:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 2 Aug 2007 11:26:22 +0000 (UTC)
In-Reply-To: <1186048306.394073.145910@x35g2000prf.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; IEMB3; IEMB3),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e16g2000pri.googlegroups.com; posting-host=97.84.159.244;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.cb:2347 rec.radio.amateur.equipment:515 rec.radio.amateur.homebrew:669

This is RRAH... We build our own junk... You are spamming us with commercial announcements we don't care about and which do not meet the charter for this usenet group...
I personally don't care if your customers are CB, or broadcast radio, or whatever - but since all you are doing is trying to drum up a sale here, which is not what this group is for, why don't you move along to where your customers are... The chances that you will make even a single sale to a member of this usenet group are less than zero...

cheers ... denny

From -5774695174579570768
X-Google-Thread: fc2a5,e68c31b5ed9530fb

```
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!newsfeed.news2me.com!
sn-xt-sjc-05!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-
mail
From: Doug Smith W9WI <w9wi@invalid.nospam>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio reception gone wacky
Date: Thu, 02 Aug 2007 07:13:34 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-Id: <pan.2007.08.02.12.12.31.519798@invalid.nospam>
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
References: <1185856450.439238.276460@m37g2000prh.googlegroups.com>
<1185896572.157375.200350@z28g2000prd.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@supernews.com
Lines: 45
Xref: g2news2.google.com rec.radio.amateur.homebrew:670
```

On Tue, 31 Jul 2007 15:42:52 +0000, w0jrm wrote:

> Drivers don't have to adjust their car's radio dial, because some Des Moines stations are changing themselves.
>
> A new digital signal is causing a few glitches for some car radios.
>
> The problem started a few weeks ago. Fans of 93.3 FM and 102.5 FM noticed their radio station presets would sometimes refuse to stay on the right station.
>
> Drivers would find that when they push their preset button that is set to 93.3 FM, it stays for a second and then switches back to 102.5 FM by itself.

I STRONGLY suspect that what's going on in Des Moines is an improperly-configured RDS encoder. This is not directly related to the new IBOC digital radio system in use here in the States, but it seems that the IBOC digital encoders also include an RDS encoder for the station's analog side.

RDS is a 57KHz subcarrier that transmits low-speed data. Information like the name of the station, a "program identification" code that's invaluable for DXers as it often maps directly to the call letters (continuous ID!), sometimes the name of the song/artist that's on the air right now.

It also includes an "alternate frequency" field. This idea came from Europe where a single station may have a number of transmitters on different frequencies. The station places all its frequencies in the "AF" field on all its transmitters. If the radio senses the signal it's tuned to isn't coming in well, it tries the other frequencies in the AF list, looking for a better choice.

Multiple-transmitter stations are MUCH less common in the U.S.. I would imagine many station personnel don't understand what the Alternate Frequency (AF) field is all about. My guess is that when KIOA-93.3 configured their equipment, they entered the frequency of different (but commonly-owned) station KSTZ-102.5 in the AF field -- and didn't enter their own frequency of 93.3. Presumably some models of radio interpret this as indicating not that 102.5 is an *alternative* frequency of KIOA, but the *only* frequency.

I've heard of similar problems in other cities. The IBOC digital deployment is resulting in RDS installations in a LOT of stations that haven't used it before, and there seem to be a LOT more RDS-enabled receivers than there were a few years ago.

From -1386594211883459129
X-Google-Thread: fc2a5,e68c31b5ed9530fb
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!g12g2000prg.googlegroups.com!not-for-mail
From: laura halliday <marsgal42@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio reception gone wacky
Date: Thu, 02 Aug 2007 08:37:01 -0700
Organization: http://groups.google.com
Lines: 33
Message-ID: <1186069021.071223.256420@g12g2000prg.googlegroups.com>
References: <1185856450.439238.276460@m37g2000prh.googlegroups.com>
   <1185896572.157375.200350@z28g2000prd.googlegroups.com>
   <pan.2007.08.02.12.12.31.519798@invalid.nospam>
NNTP-Posting-Host: 198.162.90.176
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1186069021 31680 127.0.0.1 (2 Aug 2007 15:37:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 2 Aug 2007 15:37:01 +0000 (UTC)
In-Reply-To: <pan.2007.08.02.12.12.31.519798@invalid.nospam>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.10) Gecko/20050716 Firefox/1.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g12g2000prg.googlegroups.com; posting-host=198.162.90.176;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:671

On Aug 2, 5:13 am, Doug Smith W9WI <w...@invalid.nospam> wrote:

> It also includes an "alternate frequency" field. This idea came from
> Europe where a single station may have a number of transmitters on
> different frequencies. The station places all its frequencies in the "AF"
> field on all its transmitters. If the radio senses the signal it's tuned
> to isn't coming in well, it tries the other frequencies in the AF list,

> looking for a better choice.

This is very handy when you're driving cross-country. The car radio can hand off from one transmitter to another, while staying on the same network. This presupposes national radio networks, of course. :-)

They also have the ability to switch to a different station for traffic reports, then switch back to whatever you were listening to. This is sometimes jarring, but I understand the reasoning.

We have nationwide radio networks in Canada from the CBC, but don't use RDS. Too many AM transmitters to make it work; probably other issues too.

We played with DAB for a while on L band, but have quietly walked away from it. There's just one multiplex still on the air here in Vancouver.

I've often thought wide band FM ham radio (e.g. 10 GHz) could benefit from RDS ("VE7LDH 10.2 GHz QTHR QSL via buro").

```
Laura Halliday VE7LDH     "Non sequitur. Your ACKs are
Grid: CN89mg                             uncoordinated."
ICBM: 49 16.05 N 122 56.92 W       - Nomad the Network Engineer
```

```
From 6665204610715657З6
X-Google-Thread: fc2a5,e68c31b5ed9530fb
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!sn-xt-sjc-05!sn-xt-sjc-09!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Doug Smith W9WI <w9wi@invalid.nospam>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio reception gone wacky
Date: Thu, 02 Aug 2007 11:54:41 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-Id: <pan.2007.08.02.16.54.33.227680@invalid.nospam>
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
References: <1185856450.439238.276460@m37g2000prh.googlegroups.com>
<1185896572.157375.200350@z28g2000prd.googlegroups.com>
<pan.2007.08.02.12.12.31.519798@invalid.nospam>
<1186069021.071223.256420@g12g2000prg.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@supernews.com
Lines: 40
X-Original-Bytes: 2945
Xref: g2news2.google.com rec.radio.amateur.homebrew:672
```

On Thu, 02 Aug 2007 08:37:01 -0700, laura halliday wrote:

> We have nationwide radio networks in Canada from the CBC,
> but don't use RDS. Too many AM transmitters to make it work;
> probably other issues too.

Some CBC stations did run RDS for awhile, but I don't recall any of them using the AF field. (but I only ever saw RDS on the ones that made it into Tennessee via sporadic-E) I understand they were somehow used in conjunction with a data-paging scheme, and when that scheme went bust many of the encoders were shut off.

There really aren't that many AM transmitters left -- offhand I can think of St. John's (NL), Windsor, Winnipeg, Regina (Watrous), Edmonton, Calgary, and Vancouver. The four on the Prairies all have FM relays within the city centre, so I'd imagine the majority of the audience is listening on FM even there. Apparently you *can* specify an AM frequency in the AF field - I've seen it done - though while you can direct a receiver *from* FM *to* AM you obviously can't do it the other way around.

> We played with DAB for a while on L band, but have quietly walked away
> from it. There's just one multiplex still on the air here in Vancouver.

Yeah, that's unfortunate. Your system provides more choice, better quality, and no interference to the existing analog service. I suppose the lack of economies of scale with the U.S. market doomed it. The CRTC is now considering allowing our IBOC system. (and the CBC has tested it in Toronto and Peterborough) They seem VERY leery of authorizing it on AM though.

> I've often thought wide band FM ham radio (e.g. 10 GHz) could benefit
> from RDS ("VE7LDH 10.2 GHz QTHR QSL via buro").

Interesting idea.

Reportedly some new iPod transmitters include RDS encoders (?!) (along with some kind of scheme for reading the song title/artist data out of the iPod) so apparently encoders are available at consumer-practical prices. The standard is no secret, so someone adequately skilled would probably have little trouble building one.

From 1540868846634416602
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!x35g2000prf.googlegroups.com!not-for-mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew

```
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
Date: Thu, 02 Aug 2007 10:36:58 -0700
Organization: http://groups.google.com
Lines: 15
Message-ID: <1186076218.262445.109600@x35g2000prf.googlegroups.com>
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
   <46a73770$0$32580$4c368faf@roadrunner.com>
   <1185990296.931236.46910@x40g2000prg.googlegroups.com>
   <OKadnWW3cumFdi3bnZ2dnUVZ_jOdnZ2d@comcast.com>
   <1186024598.054512.272230@i38g2000prf.googlegroups.com>
   <1186048306.394073.145910@x35g2000prf.googlegroups.com>
   <1186053981.555761.187580@e16g2000pri.googlegroups.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1186076218 19593 127.0.0.1 (2 Aug 2007 17:36:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 2 Aug 2007 17:36:58 +0000 (UTC)
In-Reply-To: <1186053981.555761.187580@e16g2000pri.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: x35g2000prf.googlegroups.com; posting-host=216.203.30.4;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.cb:2348 rec.radio.amateur.equipment:516
rec.radio.amateur.homebrew:673

On Aug 2, 6:26 am, Denny <k...@mailblocks.com> wrote:
> This is RRAH... We build our own junk... You are spamming us with
> commercial announcements we don't care about and which do not meet the
> charter for this usenet group...
> I personally don't care if your customers are CB, or broadcast radio,
> or whatever - but since all you are doing is trying to drum up a sale
> here, which is not what this group is for, why don't you  move along
> to where your customers are... The chances that you will make even a
> single sale to a member of this usenet group are less than zero...
>
> cheers  ...  denny

Dennis, thanks for your input...
See the NEW VoiceMax Speech Processor at www.telstar-electronics.com




From -8115932493902373357
X-Google-Thread: fc2a5,e68c31b5ed9530fb
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!z24g2000prh.googlegroups.com!not-for-
mail
From:  laura halliday <marsgal42@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
```

Subject: Re: Radio reception gone wacky
Date: Thu, 02 Aug 2007 13:46:40 -0700
Organization: http://groups.google.com
Lines: 49
Message-ID: <1186087600.514211.107770@z24g2000prh.googlegroups.com>
References: <1185856450.439238.276460@m37g2000prh.googlegroups.com>
   <1185896572.157375.200350@z28g2000prd.googlegroups.com>
   <pan.2007.08.02.12.12.31.519798@invalid.nospam>
   <1186069021.071223.256420@g12g2000prg.googlegroups.com>
   <pan.2007.08.02.16.54.33.227680@invalid.nospam>
NNTP-Posting-Host: 198.162.90.176
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1186087601 19475 127.0.0.1 (2 Aug 2007 20:46:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 2 Aug 2007 20:46:41 +0000 (UTC)
In-Reply-To: <pan.2007.08.02.16.54.33.227680@invalid.nospam>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.10) Gecko/20050716 Firefox/1.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: z24g2000prh.googlegroups.com; posting-host=198.162.90.176;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:674

On Aug 2, 9:54 am, Doug Smith W9WI <w...@invalid.nospam> wrote:

> There really aren't that many AM transmitters left -- offhand I can think
> of St. John's (NL), Windsor, Winnipeg, Regina (Watrous), Edmonton,
> Calgary, and Vancouver. The four on the Prairies all have FM relays
> within the city centre, so I'd imagine the majority of the audience is
> listening on FM even there. Apparently you *can* specify an AM frequency
> in the AF field - I've seen it done - though while you can direct a
> receiver *from* FM *to* AM you obviously can't do it the other way around.

There are still Radio 1 repeaters on AM in small towns. All the new
stuff is on FM. There was a major stink a few years ago when CBC
Toronto traded in their old AM frequency for the last available FM
frequency in the Toronto/Hamilton/Buffalo area.

> > We played with DAB for a while on L band, but have quietly walked away
> > from it. There's just one multiplex still on the air here in Vancouver.
>
> Yeah, that's unfortunate. Your system provides more choice, better
> quality, and no interference to the existing analog service. I suppose
> the lack of economies of scale with the U.S. market doomed it. The CRTC
> is now considering allowing our IBOC system. (and the CBC has tested it in
> Toronto and Peterborough) They seem VERY leery of authorizing it on AM
> though.

The main push for digital radio here is now Sirius. We were using
totally standard Eureka 147, albeit at a different frequency than
Europe. It works, but suffers from spotty coverage due to lousy

transmitters - if they had continued to build it out, it might work better. But the one piddly little transmitter left on Mount Seymour gives surprisingly good coverage. I bought a little DAB radio at Radio Shack, and it works just fine.

One issue that has been raised as a stumbling block to DAB in the Americas is that multiplexes require stations to share a frequency - stations that are otherwise competitors.

The only remaining multiplex here has the three CBC English networks and the two CBC French networks. The other multiplexes, before they were turned down, had stations owned by the same companies on them (Corus, CHUM).

We (hams) have oodles of bandwidth in our microwave bands. We could play with this stuff too.

```
Laura Halliday VE7LDH     "Non sequitur. Your ACKS are
Grid: CN89mg                    uncoordinated."
ICBM: 49 16.05 N 122 56.92 W       - Nomad the Network Engineer
```

```
From 7588045468523507495
X-Google-Thread: f64c6,53994fecc1a553db
X-Google-Thread: fc2a5,53994fecc1a553db
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!out03b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny03.POSTED!4816db62!
not-for-mail
From: "YOUNG SNODGRASS" <young.snodgrass@verizon.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <f8nhom$30i$1@aioe.org>
Subject: Re: A new use for dental floss
Lines: 31
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <U1ssi.8634$xi.4054@trndny03>
Date: Thu, 02 Aug 2007 21:30:28 GMT
NNTP-Posting-Host: 71.115.94.13
X-Complaints-To: abuse@verizon.net
X-Trace: trndny03 1186090228 71.115.94.13 (Thu, 02 Aug 2007 17:30:28 EDT)
NNTP-Posting-Date: Thu, 02 Aug 2007 17:30:28 EDT
Xref: g2news2.google.com uk.radio.amateur:10215 rec.radio.amateur.homebrew:675
```

Years ago I was told to use women's Lipstick for cleaning surfaces where the smoothness of the final finish is important! They said it is very mildly abrasive. I think I'd test it for residue before I got too carried away.

Also be a little careful of the color?

They said to apply it with something smooth such as a piece of chamois on a popsicle stick?

Good Luck!

Young

"G "Guglielmo" Evans G4SDW" <no.spam@thank.you> wrote in message
news:f8nhom$30i$1@aioe.org...
> Having been donated a homebrew "L" antenna tuner, with
> an unidentified roller coaster (about 1 1/4" in diameter, with
> a plastic facia turns counter marked "antenna loading" with the
> plastic facia looking like a CRT's barrel distortion, any ideas
> as to its origin, anyone?) but a fairly large domestic tuning
> capacitor, I needed to remove the gunge that had accumulated
> after some years in a garden shed.
>
> Lo! And behold! An ideal tool is to be found in dental floss,
> a bit difficult to thread it between to start with, (hook it with
> a paper clip) but once going, it's in its element!
>
>

From -8347547977790774036
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wn11feed!worldnet.att.net!bgtnsc05-
news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
Message-ID: <46B261D4.5090905@worldnet.att.net>
From: John Siegel <JohnASiegel@worldnet.att.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.0.2) Gecko/
20030208 Netscape/7.02
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
<46a73770$0$32580$4c368faf@roadrunner.com>
<1185990296.931236.46910@x40g2000prg.googlegroups.com>
<OKadnWW3cumFdi3bnZ2dnUVZ_jOdnZ2d@comcast.com>
<1186024598.054512.272230@i38g2000prf.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed

```
Content-Transfer-Encoding: 7bit
Lines: 36
Date: Thu, 02 Aug 2007 22:59:36 GMT
NNTP-Posting-Host: 12.76.5.191
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1186095576 12.76.5.191 (Thu, 02 Aug
2007 22:59:36 GMT)
NNTP-Posting-Date: Thu, 02 Aug 2007 22:59:36 GMT
Organization: AT&T Worldnet
Xref: g2news2.google.com rec.radio.cb:2352 rec.radio.amateur.equipment:520
rec.radio.amateur.homebrew:676



Arv-K7HKL wrote:
> On 1 Aug, 14:20, NoMoreSpam <Disgusted...@qrparci.org> wrote:
>
>>Telstar Electronics wrote:
>>
>>>On Jul 25, 6:43 am, Me Know <m...@here.now> wrote:
>>>
>>>>Telstar Electronics wrote:
>>>>
>>>>>http://www.telstar-electronics.com/default_files/NewProductDevelopmen...
>>>>
>>>>Quit spamming the newsgroups!
>>>
>>>Temper temper... you know your blood pressure. You should take better
>>>care of yourself.
>>>See the NEW VoiceMax Speech Processor atwww.telstar-electronics.com
>>
>>What a bunch of CBer crap!
>
>
> Quoted from the Telstar Web Site:
>
> "Whether you're whispering or shouting, VoiceMax holds your
> transceiver at 100% modulation allowing you to punch through heavy
> channel traffic without sacrificing voice clarity."
>
> So, it is for AM modulation systems.  The previous poster was
> right...it is CB equipment!  Telstar says it is, so who's to argue
> with that.
> _._
>
Can you name a ham transceiver made in the last twenty years that
doesn't already have a speech compressor built in?



From 1198020509293558458
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
```

```
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: Mark@TayleorRobesin.org
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
Date: Thu, 02 Aug 2007 19:39:04 -0400
Message-ID: <rnq4b3tggsr5t3bhsno9dpnid8i4pmv7d0@4ax.com>
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
<46a73770$0$32580$4c368faf@roadrunner.com>
<1185990296.931236.46910@x40g2000prg.googlegroups.com>
<OKadnWW3cumFdi3bnZ2dnUVZ_jOdnZ2d@comcast.com>
<1186024598.054512.272230@i38g2000prf.googlegroups.com>
<46B261D4.5090905@worldnet.att.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 51
NNTP-Posting-Date: 02 Aug 2007 22:47:23 GMT
X-Complaints-To: abuse@teranews.com
X-Original-Lines: 48
Xref: g2news2.google.com rec.radio.cb:2353 rec.radio.amateur.equipment:521
rec.radio.amateur.homebrew:677

On Thu, 02 Aug 2007 22:59:36 GMT, John Siegel
<JohnASiegel@worldnet.att.net> wrote:

>
>
>Arv-K7HKL wrote:
>> On 1 Aug, 14:20, NoMoreSpam <Disgusted...@qrparci.org> wrote:
>>
>>>Telstar Electronics wrote:
>>>
>>>>On Jul 25, 6:43 am, Me Know <m...@here.now> wrote:
>>>>
>>>>>Telstar Electronics wrote:
>>>>>
>>>>>>http://www.telstar-electronics.com/default_files/NewProductDevelopmen...
>>>>>
>>>>>Quit spamming the newsgroups!
>>>>
>>>>Temper temper... you know your blood pressure. You should take better
>>>>care of yourself.
>>>>See the NEW VoiceMax Speech Processor atwww.telstar-electronics.com
>>>
>>>What a bunch of CBer crap!
>>
>>
```

>> Quoted from the Telstar Web Site:
>>
>> "Whether you're whispering or shouting, VoiceMax holds your
>> transceiver at 100% modulation allowing you to punch through heavy
>> channel traffic without sacrificing voice clarity."
>>
>> So, it is for AM modulation systems. The previous poster was
>> right...it is CB equipment! Telstar says it is, so who's to argue
>> with that.
>> _._
>>
>Can you name a ham transceiver made in the last twenty years that
>doesn't already have a speech compressor built in?
RCI 2950 I don't think it has one if so I don't know the control is

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/

G

--
Posted via a free Usenet account from http://www.teranews.com

```
From 5609560678608851429
X-Google-Thread: fc2a5,e68c31b5ed9530fb
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!tethys.csu.net!
nntp.csufresno.edu!sn-xt-sjc-02!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: Doug Smith W9WI <w9wi@invalid.nospam>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio reception gone wacky
Date: Fri, 03 Aug 2007 01:30:08 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-Id: <pan.2007.08.03.06.30.06.781452@invalid.nospam>
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
References: <1185856450.439238.276460@m37g2000prh.googlegroups.com>
<1185896572.157375.200350@z28g2000prd.googlegroups.com>
<pan.2007.08.02.12.12.31.519798@invalid.nospam>
<1186069021.071223.256420@g12g2000prg.googlegroups.com>
<pan.2007.08.02.16.54.33.227680@invalid.nospam>
<1186087600.514211.107770@z24g2000prh.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@supernews.com
```

Lines: 35
Xref: g2news2.google.com rec.radio.amateur.homebrew:678

On Thu, 02 Aug 2007 13:46:40 -0700, laura halliday wrote:
> There are still Radio 1 repeaters on AM in small towns. All the new
> stuff is on FM. There was a major stink a few years ago when CBC
> Toronto traded in their old AM frequency for the last available FM
> frequency in the Toronto/Hamilton/Buffalo area.

Absolutely, though those are disappearing too. I saw one in Iron Bridge, Ont. two years ago - a wire about 15m long strung between two phone poles, a surprisingly stout building housing the 40-watt transmitter. Maybe that was Premiere Chaine, not Radio 1? I forget...

> One issue that has been raised as a stumbling block to DAB in the
> Americas is that multiplexes require stations to share a frequency -
> stations that are otherwise competitors.

Here in the States duopolies have led to the situation where one owner would be able to use an entire multiplex pretty easily. I think the real stumbling block here was that Eureka would give Acme Radiocorp's 250-watt daytime-only AM station exactly the same coverage (and full-quality audio) as XYZ Broadcasting's 100kw FM. XYZ would rather not have the competition.

> The only remaining multiplex here has the three CBC English networks and
> the two CBC French networks. The other multi- plexes, before they were
> turned down, had stations owned by the same companies on them (Corus,
> CHUM).

Radio 3 is on the air on DAB?

> We (hams) have oodles of bandwidth in our microwave bands. We could play
> with this stuff too.

German hams have been messing with amateur digital TV - their board supports our ATSC standard too.

From -159137514994454834
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 03 Aug 2007 22:09:25 -0500
Date: Sat, 04 Aug 2007 15:09:28 +1200
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en

```
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven power supply
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
<1185691120.009824.138370@j4g2000prf.googlegroups.com>
<46acfd4f$0$16577$4c368faf@roadrunner.com> <13aqh75b4h0d635@corp.supernews.com>
<46adb7ea$0$4644$4c368faf@roadrunner.com>
<46adf445$0$12181$4c368faf@roadrunner.com>
<46adf9b2$0$12170$4c368faf@roadrunner.com>
In-Reply-To: <46adf9b2$0$12170$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000763-4, 03/08/2007), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-22-102.dsl.telstraclear.net
Message-ID: <46b3ede1$1@clear.net.nz>
X-Original-Trace: 4 Aug 2007 15:09:21 +1200, 121-72-22-102.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 76
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-Trace: sv3-sXd69wqxB0SMV7eyaiyau5VAdeZCMrzOcFTOIJEI2n9Jpz78MOFirzWxvw+/NH04aAu/
UX4ijccdqNr!fB1PcoBOfUfk3optcznjoBi7niixPTxwD8ZPam50QAgwYUfS8DDMM0fHIQ==
X-Complaints-To: Complaints to abuse@clear.net.nz
X-DMCA-Complaints-To: Complaints to abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:679

Jimmie D wrote:
> "Jimmie D" <GFENDER@carolina.rr.com> wrote in message
> news:46adf445$0$12181$4c368faf@roadrunner.com...
>
>>"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
>>news:46adb7ea$0$4644$4c368faf@roadrunner.com...
>>
>>>"msg" <msg@_cybertheque.org_> wrote in message
>>>news:13aqh75b4h0d635@corp.supernews.com...
>>>
>>>>Jimmie D wrote:
>>>>
>>>>
>>>>>there are appaently 2 types, one is made to run off of 12 volts maybe
>>>>>24 VDC and the other runs off of 120VAC.
>>>>>I think the 120VAC initially converts it to 300VDC then aplies it to
>>>>>the inverter circuit.. Still trying to find a schematic to verify. I
>>>>>would think this technology could be a major help for amp builders
>>>>>allowing us to build inexpensive power supplies and easily custom wind
>>>>>the inverter transformers.
>>>>
```

>>>>Please dig out the ones you have and take photos, front and rear of the
>>>>entire unit and if you don't mind, disassemble and photograph and
>>>>components. I can host the photos if you wish (email them to me).
>>>>This would _really_ help in the evaluation until any of us find
>>>>schematics.
>>>>
>>>>Regards,
>>>>
>>>>Michael
>>>>msg _at_ cybertheque _dot_ org
>>>
>>>Seems i am going to be looking for a couple more as the wife laid claim
>>>on these.
>>>
>>
>>I did find some info saying the switcher was run using IGBTs.
>>
>
>
> Rats, service manual just shows it as a box, but I did find some useful info
> here
>
> http://fusor.net/board/view.php?site=fusor&bn=fusor_hvpower&key=1158786921
>
> Knowing the freq they switch at would be a big help
>
>
> Jimmie
>
>
I must confess that I'm not familiar with "inverter" type PSU's for
microwaves. However judging by the old type you would literally be
"playing with fire" in using them for a TX PSU.
Based on the "Don't put it in unless it's needed" philosophy it
1. Won't have ANY filtering worth mentioning. In fact the output will
probably be a series of rough square waves giving about +2KV average
voltage.
2. I would be quite sure that an 807 based linear would turn into slag
with 2Kv on the plates, let alone 2KV squarewaves at about 25KHz.

This is based on the fact that microwave ovens use cavity magnetrons.
these need a small heater voltage and a beefy but rough HT supply.
They are just a diode in a powerful transverse magnetic field.
After all your coffee or soup isn't a sensitive soul about signals!

Now if you had a linear needing 2Kv or so (maybe a California
Kilowatt!!!) and a good supply of high voltage caps then you might be
getting somwhere.
You would indeed have the advantage of needing less smoothing because of
the high switching frequency of the inverter but any choke would have to
be suitable for 30 KHz at least with powerful insulation.
But with decent TX tubes not being cheap I still reckon I would prefer
one of the old HV transformers with plenty of fuses.

Best of luck!
73's ZL1BDA ex G3NIA.

```
From -3334869976078163626
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out03a.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-
in-02.newsfeed.easynews.com!easynews.com!easynews!sn-xt-sjc-03!sn-xt-sjc-08!sn-
post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven power supply
Date: Sat, 04 Aug 2007 00:00:36 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13b81vdn0njjq16@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
<1185691120.009824.138370@j4g2000prf.googlegroups.com>
<46acfd4f$0$16577$4c368faf@roadrunner.com> <13aqh75b4h0d635@corp.supernews.com>
<46adb7ea$0$4644$4c368faf@roadrunner.com>
<46adf445$0$12181$4c368faf@roadrunner.com>
<46adf9b2$0$12170$4c368faf@roadrunner.com> <46b3ede1$1@clear.net.nz>
In-Reply-To: <46b3ede1$1@clear.net.nz>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 15
Xref: g2news2.google.com rec.radio.amateur.homebrew:680
```

cliff wright wrote:
<snip>

> 2. I would be quite sure that an 807 based linear would turn into slag
> with 2Kv on the plates,...

Please see http://www.cybertheque.org/homebrew/837_linear

This design is not mine but I documented the layout, construction,
and circuitry of a quad 807 (837) linear from silent key
K9KLN. It used a 2KV power supply ;)

Regards,

Michael

From 4215045201628030209

X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe14.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <46a69c64$0$30639$4c368faf@roadrunner.com> <1185691120.009824.138370@j4g2000prf.googlegroups.com> <46acfd4f$0$16577$4c368faf@roadrunner.com> <13aqh75b4h0d635@corp.supernews.com> <46adb7ea$0$4644$4c368faf@roadrunner.com> <46adf445$0$12181$4c368faf@roadrunner.com> <46adf9b2$0$12170$4c368faf@roadrunner.com> <46b3ede1$1@clear.net.nz> <13b81vdn0njjq16@corp.supernews.com>
Subject: Re: microwave oven power supply
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <q06ti.44816$g86.27176@newsfe14.lga>
Date: Sat, 4 Aug 2007 17:16:05 -0400
NNTP-Posting-Host: 68.229.79.253
X-Complaints-To: admin@cox.net
X-Trace: newsfe14.lga 1186262166 68.229.79.253 (Sat, 04 Aug 2007 14:16:06 MST)
NNTP-Posting-Date: Sat, 04 Aug 2007 14:16:06 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:681

"msg" <msg@_cybertheque.org_> wrote in message news:13b81vdn0njjq16@corp.supernews.com...
> cliff wright wrote:
> <snip>
>
>> 2. I would be quite sure that an 807 based linear would turn into slag
>> with 2Kv on the plates,...
>
> Please see http://www.cybertheque.org/homebrew/837_linear
>
> This design is not mine but I documented the layout, construction,
> and circuitry of a quad 807 (837) linear from silent key
> K9KLN. It used a 2KV power supply ;)
>
> Regards,
>
> Michael

How are the cathodes returns supplied?

Pete

```
From 3860443820298664298
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
<1185691120.009824.138370@j4g2000prf.googlegroups.com>
<46acfd4f$0$16577$4c368faf@roadrunner.com> <13aqh75b4h0d635@corp.supernews.com>
<46adb7ea$0$4644$4c368faf@roadrunner.com>
<46adf445$0$12181$4c368faf@roadrunner.com>
<46adf9b2$0$12170$4c368faf@roadrunner.com> <46b3ede1$1@clear.net.nz>
Subject: Re: microwave oven power supply
Date: Sat, 4 Aug 2007 22:17:57 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Lines: 96
Message-ID: <46b53355$0$29668$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:682


"cliff wright" <c.c.wright@paradise.net.nz> wrote in message
news:46b3ede1$1@clear.net.nz...
> Jimmie D wrote:
>> "Jimmie D" <GFENDER@carolina.rr.com> wrote in message
>> news:46adf445$0$12181$4c368faf@roadrunner.com...
>>
>>>"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
>>>news:46adb7ea$0$4644$4c368faf@roadrunner.com...
>>>
>>>>"msg" <msg@_cybertheque.org_> wrote in message
>>>>news:13aqh75b4h0d635@corp.supernews.com...
>>>>
>>>>>Jimmie D wrote:
>>>>>
>>>>>
>>>>>>there are appaently 2 types, one is made to run off of 12 volts maybe
>>>>>>24 VDC and the other runs off of 120VAC.
>>>>>>I think the 120VAC initially converts it to 300VDC then aplies it to
>>>>>>the inverter circuit.. Still trying to find a schematic to verify. I
```

>>>>>>would think this technology could be a major help for amp builders
>>>>>>allowing us to build inexpensive power supplies and easily custom wind
>>>>>>the inverter transformers.
>>>>>
>>>>>Please dig out the ones you have and take photos, front and rear of the
>>>>>entire unit and if you don't mind, disassemble and photograph and
>>>>>components. I can host the photos if you wish (email them to me).
>>>>>This would _really_ help in the evaluation until any of us find
>>>>>schematics.
>>>>>
>>>>>Regards,
>>>>>
>>>>>Michael
>>>>>msg _at_ cybertheque _dot_ org
>>>>
>>>>Seems i am going to be looking for a couple more as the wife laid claim
>>>>on these.
>>>>
>>>
>>>I did find some info saying the switcher was run using IGBTs.
>>>
>>
>>
>> Rats, service manual just shows it as a box, but I did find some useful
>> info here
>>
>> http://fusor.net/board/view.php?site=fusor&bn=fusor_hvpower&key=1158786921
>>
>> Knowing the freq they switch at would be a big help
>>
>>
>> Jimmie
> I must confess that I'm not familiar with "inverter" type PSU's for
> microwaves. However judging by the old type you would literally be
> "playing with fire" in using them for a TX PSU.
> Based on the "Don't put it in unless it's needed" philosophy it
> 1. Won't have ANY filtering worth mentioning. In fact the output will
> probably be a series of rough square waves giving about +2KV average
> voltage.
> 2. I would be quite sure that an 807 based linear would turn into slag
> with 2Kv on the plates, let alone 2KV squarewaves at about 25KHz.
>
> This is based on the fact that microwave ovens use cavity magnetrons.
> these need a small heater voltage and a beefy but rough HT supply.
> They are just a diode in a powerful transverse magnetic field.
> After all your coffee or soup isn't a sensitive soul about signals!
>
> Now if you had a linear needing 2Kv or so (maybe a California Kilowatt!!!)
> and a good supply of high voltage caps then you might be getting somwhere.
> You would indeed have the advantage of needing less smoothing because of
> the high switching frequency of the inverter but any choke would have to
> be suitable for 30 KHz at least with powerful insulation.
> But with decent TX tubes not being cheap I still reckon I would prefer one

> of the old HV transformers with plenty of fuses.
> Best of luck!
> 73's ZL1BDA ex G3NIA.

Basically I want it for educational(my education) purposes. I had to give up the ovens I got at the goodwill to my wife so I am waiting on another one to show up..Bsically I want out learn about the design of the power supply. I figure it can be much improved but dont see why the idea of using a n inverter would not work for rf amps. I want to learn about the magnetics used and the operating frequency to hopefully design my own inverter type power supply. I was thinking of something along the lines of the old 12 to 600volt inverters used by HEath for their old mobile rigs. But I want to use them off the mains, input 300vdc output up to a couple of KV. Presently I have a couple of inverter transformers salvaged from some old tube type CB amps and the plan is drive them with a couple of IGBTs. First I need to get them operatin as designed so I can figure out for what freq they were designed.

Jimmie

From -1549936498480658831
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 05 Aug 2007 00:30:55 -0500
Date: Sun, 05 Aug 2007 17:30:56 +1200
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven power supply
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
<1185691120.009824.138370@j4g2000prf.googlegroups.com>
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Content-Transfer-Encoding: 7bit
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X-Antivirus-Status: Clean

X-Original-NNTP-Posting-Host: 121-72-22-102.dsl.telstraclear.net
Message-ID: <46b5608c@clear.net.nz>
X-Original-Trace: 5 Aug 2007 17:30:52 +1200, 121-72-22-102.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints abuse@clear.net.nz
Lines: 33
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
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X-Complaints-To: Complaints to abuse@clear.net.nz
X-DMCA-Complaints-To: Complaints to abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:683

msg wrote:
> cliff wright wrote:
> <snip>
>
>> 2. I would be quite sure that an 807 based linear would turn into slag
>> with 2Kv on the plates,...
>
>
> Please see http://www.cybertheque.org/homebrew/837_linear
>
> This design is not mine but I documented the layout, construction,
> and circuitry of a quad 807 (837) linear from silent key
> K9KLN. It used a 2KV power supply ;)
>
> Regards,
>
> Michael

Had a look at the old quad GG 807 type linear.
COR! that's a real old bit of ham radio.
My own experience with 1625/807's is that with more than 1KV on the plate they didn't survive long. Any mismatch or offtuning and flashover happened pretty fast. Back in the 1960's I had quite a bin full of duds that went just that way.
Recently I had a fault in my modified kenwood 820s which destroyed 2x 6146B's in a similar way. That's with only 850v plate voltage too.
However it is true that linear amps tend to work better in a high voltage/low current mode, provided the finals can take it.
My old home brew 100watt linear used a TT21 (KT88 with a top cap plate) and that worked fine with 1050 volts. Nice and linear and 66% effecient on 14 Mhz (measured).
I once built an 811A GG linear but never needed the extra power so it nevergot on the air.
Regards Cliff Wright ZL1BDA

```
From -1283219056831723196
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X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!d30g2000prg.googlegroups.com!not-for-
mail
From:  glennbaddeley@hotmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Subwoofer/Amp project...
Date: Sun, 05 Aug 2007 02:29:57 -0700
Organization: http://groups.google.com
Lines: 341
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1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d30g2000prg.googlegroups.com; posting-host=67.176.3.50;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
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```

Subwoofer/Amp project...

(Playmaster 300W subwoofer amp)

While walking down the hall around lunch time I walked in on a discussion about surround sound home theater systems. After humbly admitting I watched movies through my two channel stereo I was prodded by my peers to get with the '90s, I started checking out the technology.

The following week I saw a used Carver surround sound processor for sale on the net. Perfect for upgrading my late 80's vintage two channel stereo. However, a suround sound system requires three front speakers (left, center, right), two rear (left and right), and a subwoofer. The five channels provide the spacial realism, while the subwoofer provides the physical realism... that is when Apollo 13 takes off one should be able to feel the vibrations in the chest, and when the horses cross the battle field in braveheart, it's the subwoofer that allows one to feel the horses through the vibrating floor.

While I had other equipment to get by on the five channels, I was short on a subwoofer, so I did some research. The short story is that I built my own powered subwoofer (actually 2) and learned alot in the process.

Here are the details...

Some info on subwoofers
Speaker Building Information Sources
Subwoofer Project
Subwoofer Construction
Amplifier Construction

Some info on subwoofers...
Difference between a woofer and a subwoofer... subwoofers are usually only used to recreate a sub portion of what a woofer will. While a typical woofer may have a frequency response between 20Hz and 2k Hz, a subwoofer usually has a crossover that limits it's frequency response range from 20Hz to maybe 80-150Hz. Component wise (the cone/coil thing) woofers and subwoofers are the same. There are passive subwoofers and powered subwoofers. Passive subwoofers are powered by your stereo's amplifier. Powered subwoofers is the same as a passive subwoofer except it has it's own amplifier for driving the passive subwoofer. Your stereo needs to have a sub woofer out (line out) for a powered subwoofer. Since most power produced by your stereo's amp is consumed by driving the low frequencies of your speakers, it's a big win to have a separate amplifier for driving the low end. This way mid range won't suffer from the power consumed by the low end.
There are several designs for a subwoofers. Some of the less exotic ones are are ported, sealed, and band pass enclosures. Sealed enclosure's advantage is that they can exist in a much smaller enclosure, however this is at the cost of efficiency and reduced low frequency performance. Ported enclosures are the most common. These have a tube called a port which serves several purposes. It's important that this port be tuned to the driver (woofer) and volume of the box or else the sound may result in unclear, muddy bass. The affect of a properly tuned port with the woofer is similar to blowing a wine jug like an instrument. A band pass enclsure looks like a box with a hole or slit. Bose subwoofers are band pass woofers. The idea is that only certain desired frequencies (bands) end up passing through the hole or slit while the others are absorbed internally.

There's a thing called a crossover to consider. A crossover is like a frequency filter except rather than filtering out frequencies, it redirects frequencies to other channels. A typical powered subwoofer will have a built in crossover that directs low end frequencies (usually < 80-150Hz) to your subwoofer while sending higher frequencies on to another channel (the rest of your speaker system). The high end frequencies rapidly diminish in the channel sent to the subwoofer and the low end frequencies rapidly dimish in the channel going to the higher frequency response speakers. So the tweeters get the high frequencies they are designed to produce and the woofer get the low frequencies they are designed to produce. Almost all multi speaker system will have some sort of crossover. separating frequencies between tweeter, midrange and woofer. In crossovers, there are both passive and active crossovers. Passive crossovers are typical in most speakers. Since they take their power from the incoming signal, they do have an impact on power/responsiveness. Active crossovers get there power externally. However we're starting to go beyond the scope of the subwoofers project.

The prices for powered subwoofer can get pretty expensive. I was looking at models between $200 and $1500. $1500 for a 12 or 15 inch woofer plus amplifier just seemed ridiculous considering the cost of parts to make them... So, I decided to look into making my own. The route I chose to take was not cost effective if time for learning, designing, and implementing is factored in. However what I've learned while doing this makes it all worth while.

Speaker Building Information Sources
I started with two books I picked up at Radio Shack called Speaker Building and Advanced Speaker building. Both are heavily oriented torwards building speakers with Radio Shack speaker components, and can almost double as a Radio Shack speaker catalog. Lot's of shameless Radio Shack marketing through out. They have a nice intro into building speakers, with a lot of the theory left out. The first book contains graphs to crossreference parameters required to make a speaker so that one doesn't need to use a calculator. The advance speaker book throws in some formulas but is a little lacking in discussion on how the equations were derived. In case you don't know how to plug a formula into your calculator, no worries... the Advanced Radio Shack book will tell you which buttons to press.
Vance Dickason's "The Loudspeaker Design Cookbook" (ISBN 1-882580-10-9) was recommended by several sources. It reads like a collection of white papers on speaker building theory and is heavy on the technical side. Towards the end it contains several commercial advertisements for part sources. Good book.

There is quite a bit of wave theory, frequency dampening factors that needs to be taken in to consideration. Everything from cone tensile strength to acoustic frequency dampening of dacron fiber fluff or maybe beach sand, resonant frequency of particle board versus a harder wood, etc., etc. factor into the volume of the box and the optimal length of the port so that it resonates properly. So many factors, it takes some time to become comfortable with weeding out the meaningful parameters from those that are negligible in the quest for making the ultimate speaker. Box dimension I later learned really dosn't matter much for a subwoofer. The main concern in box dimension is standing waves where waves are cancelled out to the tune of +/- 5dB in the worst case. Sufficient dampening material inside to absorb standing waves can cancel this out. In the case of subwoofers, it's not an issue since the box dimensions are so much shorter than the wavelengths (20-100Hz).

Here are some information sights I've found on the web....

rec.audio.misc FAQ list
Speaker Project PageLouis Lung
DIY Audio pages Craig Stark
The Subwoofer Page
The Speaker Building Page
A "Do-It-Yourself Speaker Project
3 Way Vented Speakers
Dolby Labs
THX home page
AC-3 White Paper
HiFi on WWW (extensive audio web list)

Subwoofer Project

Being a neophyte in the audiophile world, my first thought was to get the biggest driver I could find to produce the lows and push volumes of air that one could feel. I ran across some 18" woofers, however I liked the specs on some 15" woofers I later found better. After doing the calculations I found that for my ported cabinet, I would need an enclosure that was 14 to 24 cubic feet! I decided that there is no way I would want to dedicate this much space in my living room to a box this big. These calculation were based off of an optimal volume formula I got out of the Radio Shack books. I later discovered that this optimal volume didn't agree with the manufacturer, several software design packages, and the loudspeaker cookbook.
An alternative was to go with a sealed enclosure, however this reduces the responsiveness and pushes the F3 upwards. End result is a subwoofer with a reduced ability to produce low end. Since it seems the whole point of having a subwoofer is to produce the low frequencies, a sealed enclosure which raises the low end didn't make much sense to me.

I opted for a 12" woofer with a 3 cubic foot enclosure. I decided to go with Ultimate's AU1290 "Attitude" woofers. They have a frequency response range of 18-1k Hz. They have a dual six ohm, 90oz magnet, 2" kapton coil capable of handling 500 watts sustained, 1000 watts max. Headroom is .44". SPL is 88.9dB, but I don't care about this since it'll be driven by it's own separate amp with it's own gain control.

Test Data from Factory:
SPL 88.9dB 1W/1m
Fs 23.5Hz
Vas 5.3
Qts .38

I decided to go with 3 cubic feet ported enclosure since that would give me the lowest frequency within factory recommendations.... With a 3 cubic foot enclosure, this driver has an F3 of about 26Hz (pretty good!). I decided to go with a 4" diameter port tube since that would give me the least amount of port noise. The port for this is about 14" long. I ended up picking up some PVC tube at the hardware store. This worked quite well.

Subwoofer Construction

I decided to make a prototype out of particle board since wide oak boards are expensive and I was afraid of ruining them, especially since I have very little wood working experience. Particle board cost about 1/8 the price.

Being new to wood working I only had a circular saw which I had learned through experience is not for precision wood working. I was able to pick a used craftsman table saw in perfect shape for about a third of the price of a new one. And this is what I built the prototype with. For the speaker and port hole I used a saber saw.

The prototype came out pretty good. Some things I learned from the prototype is that cross bracing is important so as to cut down on the side board vibrations. Also, all seams should have a good fit and must be well sealed. I used some silicone wood calk I picked up at the hardware store. If the seams aren't sealed, the gaps tend to make a raspy whistling noise when the driver is pushing large volumes of air.

I picked up a used 60's vintage radial arm saw which I found for about 1/5 the price of an equivalent new one, however it needed some work. I spent a Saturday cleaning, oiling, calibrating, and building a new rip fence for it. I discoverd that a radial arm saw is really the way to go for precision cuts. Rather than moving a big block of heavy wood towards the blade, the heavy material stays in place while the blade runs along a track and makes a perfect precision cut. The end result is that the oak boards had a much smaller seam between the boards in the cabinet. I think this will help reduce board vibration as well as make it easier to seal.

I put about 2 pounds of a Dacron fiber called "Acousta-stuff". Supposedly it's better than Dacron fiber that one can get at a craft/fabric shop because the fibers are triangular rather than round..... Don't know about that, but the Loud speaker cookbook had some test results that said it was better, so I paid $8 per pound for this fluff. Fiber glass is suppose to be better, but for other reasons I decided I didn't want to use that. Dampening material is important for the speaker so as reduce standing waves in the enclosure which can mess with sound to the tune of a variable +/- 5dB! I just stapled this to the side of the walls excluding top and near the port tube.

I picked up a gold plated 8 post screw/banana speaker terminal which is intended for a dual voice coil subwoofer with individual crossover for each channel for hook up to additional speakers. Currently I use the active crossover from the subwoofer out in the Carver surround sound processor, so I've delayed on the passive crossover for now.

I have some small Polk speakers (4b?) I'm using as the satelite front channel speakers now. They have a 6.25" woofer. I don't have any performance spcse on these speakers.... so I'm guestimating by looking at other 6.25" of comparable quality that they will begin their roll off around 100Hz. I'm considering putting together a 2nd order low pass filter at 100Hz for the subwoofer. I had underestimated the cost for a crossover for this subwoofer. Doing some rough calculations for this low 100Hz filter looks like I'll need a 12mH inductor coil and ~200uF capacitor. Because of the high power nature of this subwoofer, I'm looking at $15-$30 for the inductor, and ~$50 for the capacitor.... Since this is a dual coil driver, everything will be mulitplied by two.

Amplifier Construction
I needed a mono amplifier to drive this subwoofer. While a cheap and easy way to do this would be to buy a bridgeable automobile amp, I had been looking for an excuse to build my own amplifier. Acoustic Labs has designed several high end amplifiers. Their designs are then marketed as "high end audio" project kits. Mark V Electronics, Inc. - Mark V Electronics, Inc. 8019 E. Slauson Ave. Montebello, CA 90640 Phone: 323-888-8988 http://www.markvelectronics.com/store E-mail: MARK5CO@aol.com http://www.markvelectronics.com -out of California markets. A mono amplifier(s) has a lot of uses in a component stereo system, especially in a 5.1 channel AC-3 or Dolby Pro Logic (THX) surround sound system that I can see using it for the forseeable future. As such, my thinking was... if I'm going to put all the time into making this, why not start with the best possible design. I decided on the AF-3 design which is a 300 Watt constant current MOSFET amp. MOSFET amps are known for having very similar characteristics to pentode vacume tubes without the drawbacks of being a vacume tube. The design has a built in speaker protection cicuit relay for protecting the speaker from power surge during power up. The design, PCB, mega heatsinks, and components that go on the PCB sell for $165. Not bad I thought... that is until I picked up everthing else I needed. The design calls for 4 filter 80-100 volt 10k uF capacitors which sell for about $25 each with mounting hardware. I picked up an 8 amp toroidal transformer (low hum, low EMF) for $66. Also I needed a cabinet of which I found a nice black anodized aluminum vented case with rack handles for $44. Other miscelaneous components such as an optional (quiet 23dB) fan, gold plated mega 4AWG capable speaker binding post, wire, rectifier bridge, fuse holder, switch, some extra capacitor and high wattage resistors, etc. brought the total price up to roughly $400 for this mono channel amp. Had I known this would be the price ahead of time, I probably wouldn't have done it. However, I now

rationalize that I've learned alot making it and that I have the best mono amp for my forseeable future needs.
I built two amps (Mom wanted one). Each amp took approximatly 50 hours assembly time. The end result is a nice sounding extremely powerful amp. 300 watts for this subwoofer is more than adequate. I have the subwoofer line out on the surround sound processor turned down to about as low as it will go. The subwoofer itself will handle 350 watts sustained, 500 watts peak. Watching the movie "Braveheart" during some of the battle scenes tends to set the whole house vibrating. One can feel the horses running across the wooden floors in the house.

After a couple weeks, I noticed the first amp I built would run much hotter than the other. I opened up the amp and recalibrated. There are two potentiometers that need to be adjusted. One is adjusted by reading the current to the amplifier board, the other is adjusted by zeroing the ouput voltage to the speaker when no input signal is present. I had adjusted these after assembling the amplifiers. However after running the amps for a while, one of the two potentiometers needed recalibrating. Now they seem to run at a reasonable temperature with my typical use.

I had picked up a 120 volt cooling fan at Radio Shack for cooling the amp. At the time, I didn't know how loud 38dB was which is what the fan noise was rated at. After trying it out, I decided this was too loud for an audio amplifier application. I found a 23dB fan + fan guard in a Jameco Electronics catalog. It's quiet enough, however, cutting the hole in the metal case has become a problem. I found a 3" circular saw, however this requires a drill press that one can set at 100rpm and can apply 150 lbs of pressure. I don't own a drill press, and haven't found one that can operate as slow as 100 rpms. I just finished a welding class, where in addition to stick welding, MIG and TIG, we learned to use a plasma cutter which is as easy as using an exacto knife. I think if a circular wood template was made ahead of time, the plasma cutter would be the easiest. I think the local welding shops rent a 110 volt plasma cutter for about $40. ...an expensive hole. I also needed to cut the case to install the oversized speaker binding posts. I used a coping saw for this. It was hard frustrating work and the results were not very nice. Fortunately, the cut is hidden by the speaker post mount, and so doesn't matter. A plasma cutter would have been great for this too.

Even though components in the amplifier would probably last longer running cooler, I've decided to wait on installing a fan until I have a better understanding of how hot it will run and can justify all the trouble of installing one. This also gives me more time to think up some way to wire up a thermostat controller.

Glenn Baddeley

From -2873343483015463002
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X-Google-Language: ENGLISH,ASCII-7-bit
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References: <46a69c64$0$30639$4c368faf@roadrunner.com>
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X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.179.75.216
X-Trace: sv3-tourRJkWX7/HVuHVEEKMOz/
6stVWNtJdVAmMoMOrf4UNYFSVQJq1fHWUNxeIlr5Bhh9IhDA0ZIij2R8!gp6pWtDCC/UCVYRpqR9hD/
NLJtSrN9QjwTj74AeoDw/JeCUuIZVevDG59nSeVqUCwA81vm7A/22Q!
ZDSuC6KpfACAgwocPsxbNzmcLg==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:685

> Had a look at the old quad GG 807 type linear.
> COR! that's a real old bit of ham radio.
> My own experience with 1625/807's is that with more than 1KV on the
> plate they didn't survive long. Any mismatch or offtuning and flashover
> happened pretty fast. Back in the 1960's I had quite a bin full of duds
> that went just that way.
> Recently I had a fault in my modified kenwood 820s which destroyed 2x
> 6146B's in a similar way. That's with only 850v plate voltage too.
> However it is true that linear amps tend to work better in a high
> voltage/low current mode, provided the finals can take it.
> My old home brew 100watt linear used a TT21 (KT88 with a top cap plate)
> and that worked fine with 1050 volts. Nice and linear and 66% effecient
> on 14 Mhz (measured).

> I once built an 811A GG linear but never needed the extra power so it
> nevergot on the air.
> Regards Cliff Wright ZL1BDA

=====================================

Re the anode voltage used for PA valves ; the older (1968-1973
generation) Yaesu transceivers (FT 40x & 50x)using TV Line Sweep valves
(tubes) had 2 HV voltage transformer taps resulting in either 650 or
850V-DC .
I always used 650V since 850V caused the valves to be too hot ,due to
the limited (1 small fan) cooling .
Although I have seen designs including 4 line sweep valves in
parallel,running on 1000 or even 1250 V ,but only with enhanced cooling.

When licenced in 1985 my first transceiver was a FT400 , an excellent
learning piece of kit,involving some 'fried' PA valves.

Frank   GM0CSZ / KN6WH

```
From -3693492468011277847
X-Google-Thread: fc2a5,80f4208f4b78bfea,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-
mail
From:  "Gian, I7SWX" <i7swx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: I0CG new AD9912 1GHz DDS
Date: Sun, 05 Aug 2007 05:55:43 -0700
Organization: http://groups.google.com
Lines: 52
Message-ID: <1186318543.573793.122530@q75g2000hsh.googlegroups.com>
NNTP-Posting-Host: 82.49.22.92
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1186318543 2393 127.0.0.1 (5 Aug 2007 12:55:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 5 Aug 2007 12:55:43 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q75g2000hsh.googlegroups.com; posting-host=82.49.22.92;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:686
```

Hi all,
You may recall my note regarding the expected good results on low
spurs using the Analog Devices AD9912 1GHz DDS.
Well, my good friend Giuliano, I0CG, (of AD9951 DDS fame) has now
experimented enough with this new DDS chip and done some measurements
with interesting results.

His comments are:

"My laboratory tests demonstrate that spurious performance and frequency extension are superior to all others actual DDS, including the AD9951.
In a few words ... This new AD9912 DDS is the best solution available today for amateur radio applications"

You may visit his web site and see spectrum analyzer screen shots and comparison with his old AD9951 DDS design:

1) AD9912 with 190 MHz output (Clock 1 GHz)Analyzer span= 200 MHz

2) old AD9951 with158 MHz output (clock 500 MHz)Analyzer span= 200 MHz

3) AD9912 Frequency extension test: 400 MHz output (clock 1 GHz)Analyzer span= 500 MHz

http://it.geocities.com/giulianoi0cg/dds4.html

If you have problems to from the web page to be readdressed to his AD9951 DDS project you may try the following address:

http://www.radioamatore.it/i0cg/add9951.html

Giuliano is designing a new DDS PCB compatible with his actual AD9951 board as users of his DDS can easily upgrade to new performances for spurs but also extending the DDS use to VHF and UHF with better SFDR (HF, VHF and UHF VFO = 0-400 MHz with 1GHz clock or 0-480 MHz with 1.2 GHz clock).

Old and new projects can be easily updated to frequency and performances extension with better SFDR.

I0CG expect to have the new AD9912 PCB available during this coming September.

Thanks Giuliano for all your dedicated work on this important aspect of our radio technology.

73
Gian
I7SWX

From -7940040326941455038
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!d55g2000hsg.googlegroups.com!not-for-

mail
From: bigorangebus <bigorangebus@yahoo.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: USB (the other one!) A2D converters?
Date: Sun, 05 Aug 2007 08:27:19 -0700
Organization: http://groups.google.com
Lines: 32
Message-ID: <1186327639.652737.200170@d55g2000hsg.googlegroups.com>
References: <f8eben$55g$1@aioe.org>
   <1185617823.742752.24670@k79g2000hse.googlegroups.com>
   <f8f8b0$fm2$1@aioe.org>
   <13as6jdrep4eua3@corp.supernews.com>
NNTP-Posting-Host: 88.110.245.158
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1186327639 29150 127.0.0.1 (5 Aug 2007 15:27:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 5 Aug 2007 15:27:19 +0000 (UTC)
In-Reply-To: <13as6jdrep4eua3@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.8.1.6)
Gecko/20070725 Firefox/2.0.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d55g2000hsg.googlegroups.com; posting-host=88.110.245.158;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com uk.radio.amateur:10628 rec.radio.amateur.homebrew:687

On Jul 30, 6:05 pm, "Joel Kolstad" <JKolstad71HatesS...@yahoo.com>
wrote:
> "G "Guglielmo" Evans G4SDW" <no.s...@thank.you> wrote in
messagenews:f8f8b0$fm2$1@aioe.org...
>
> > mirrorbow is not a bona-fide operation and does not advertise its
> > address, directors and other information as now required
> > by UK law.
>
> That is a little odd. Any idea why they aren't more forthcoming?

I received both the boards I ordered from Mirrorbow in a few days and all my email enquiries were answered extremely quickly and thoroughly. I guess they are not a multinational, and Ive never had cause to ring them. However, payment is via Palpal which I believe offer a degree of protection anyway. My invoice on delivery had their address on it.

There are lots of companies online that dont show addresses or phone numbers online, so I cant believe it is illegal not listing them! Otherwise all those webspace providers would be breaking the rules!

I think its a silly to post a comment stating that they are not "bona-fide" unless you can post evidence to suggest this.

Twice I sent my money via paypal, and twice I received my board

quickly and it worked to spec. I had questions, and they were
answered on email.

If we expect every company we deal with as amatuer electronics
enthusiasts to have a call centre and list streams of directors I
think we would find them thin on the ground in our specialist area!

```
From -9158873653471182884
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b79g2000hse.googlegroups.com!not-for-
mail
From:  bigorangebus <bigorangebus@yahoo.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: USB (the other one!) A2D converters?
Date: Sun, 05 Aug 2007 08:33:11 -0700
Organization: http://groups.google.com
Lines: 16
Message-ID: <1186327991.308477.116930@b79g2000hse.googlegroups.com>
References: <f8eben$55g$1@aioe.org>
   <1185617823.742752.24670@k79g2000hse.googlegroups.com>
   <f8f8b0$fm2$1@aioe.org>
   <13as6jdrep4eua3@corp.supernews.com>
NNTP-Posting-Host: 88.110.245.158
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1186327991 30307 127.0.0.1 (5 Aug 2007 15:33:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 5 Aug 2007 15:33:11 +0000 (UTC)
In-Reply-To: <13as6jdrep4eua3@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.8.1.6)
Gecko/20070725 Firefox/2.0.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b79g2000hse.googlegroups.com; posting-host=88.110.245.158;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com uk.radio.amateur:10630 rec.radio.amateur.homebrew:688
```

On Jul 30, 6:05 pm, "Joel Kolstad" <JKolstad71HatesS...@yahoo.com>
wrote:
> "G "Guglielmo" Evans G4SDW" <no.s...@thank.you> wrote in
messagenews:f8f8b0$fm2$1@aioe.org...
>
> > mirrorbow is not a bona-fide operation and does not advertise its
> > address, directors and other information as now required
> > by UK law.
>
> That is a little odd. Any idea why they aren't more forthcoming?

Oh, by the way, I found them through a magazine article written by a Davy Dick in a publication called MERG. Which is a model railway magazine (don't ask!). He's a railway enthusiast and the article was about using the board for controlling model railways, I don't think he has any association with the company.

From -186324661785888211
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!news.newsland.it!aioe.org!not-for-mail
From: "G \"Guglielmo\" Evans G4SDW" <no.spam@thank.you>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: USB (the other one!) A2D converters?
Date: Sun, 5 Aug 2007 16:59:00 +0100
Organization: Aioe.org NNTP Server
Lines: 14
Message-ID: <f94s44$s8a$1@aioe.org>
References: <f8eben$55g$1@aioe.org>
<1185617823.742752.24670@k79g2000hse.googlegroups.com>   <f8f8b0$fm2$1@aioe.org>
<13as6jdrep4eua3@corp.supernews.com>
<1186327639.652737.200170@d55g2000hsg.googlegroups.com>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com uk.radio.amateur:10640 rec.radio.amateur.homebrew:689

"bigorangebus" <bigorangebus@yahoo.com> wrote in message
news:1186327639.652737.200170@d55g2000hsg.googlegroups.com...
> There are lots of companies online that dont show addresses or phone
> numbers online, so I cant believe it is illegal not listing them!
> Otherwise all those webspace providers would be breaking the rules!
>
> I think its a silly to post a comment stating that they are not "bona-
> fide" unless you can post evidence to suggest this.

The evidence is their web site which does not comply with UK law as to revealing the business address and names of directors.

From -2388269874181048489
X-Google-Thread: fcc6e,f7a2c3ee759ebdd2,start

```
X-Google-Thread: fc2a5,f7a2c3ee759ebdd2,start
X-Google-Thread: 1109af,f7a2c3ee759ebdd2,start
X-Google-Attributes: gidfcc6e,gidfc2a5,gid1109af,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!feed.cgocable.net!
read1.cgocable.net.POSTED!53ab2750!not-for-mail
From: "Norm VE3CZI" <ve3czi@arrl.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.swap
Subject: FA: Last Day for these Items
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <nNmti.3544$gn1.2378@read1.cgocable.net>
Date: Sun, 5 Aug 2007 12:20:33 -0400
NNTP-Posting-Host: 24.141.130.191
X-Complaints-To: news@cogeco.net
X-Trace: read1.cgocable.net 1186330835 24.141.130.191 (Sun, 05 Aug 2007 12:20:35
EDT)
NNTP-Posting-Date: Sun, 05 Aug 2007 12:20:35 EDT
Organization: Cogeco Cable
Xref: g2news2.google.com rec.radio.amateur.antenna:4416
rec.radio.amateur.homebrew:690 rec.radio.swap:898




RF Coax Switch DC-12 Ghz  Sp4T
http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&rd=1&item=320143139938&ssPageName=STRK:MESE:IT&ih=011
Reserve of $50

Motorola Reed TX/RX Relay
http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&rd=1&item=320143141838&ssPageName=STRK:MESE:IT&ih=011

Motorola MICOR Assorted Boards
http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&rd=1&item=320143150493&ssPageName=STRK:MESE:IT&ih=011

Motorola SYNTOR XX Memory Module
http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&rd=1&item=320143160134&ssPageName=STRK:MESE:IT&ih=011

Thank You for looking.....Norm VE3CZI
****************************************************
Have Surplus Service Manuals & Electronic
Parts/Equipment FOR SALE.
Visit:  www.rodemi.com
***************************************************
```

```
From 3246402160013075638
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder2-2.proxad.net!news.clara.net!wagner.news.clara.net!
pe1.news.blueyonder.co.uk!blueyonder!news-out.ntli.net!newsrout1-gui.ntli.net!
ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!newsfe2-
gui.ntli.net.POSTED!53ab2750!not-for-mail
From: Frank Turner-Smith G3VKI <g3vki@turner-smith.co.uk>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: USB (the other one!) A2D converters?
References: <f8eben$55g$1@aioe.org>
<1185617823.742752.24670@k79g2000hse.googlegroups.com>   <f8f8b0$fm2$1@aioe.org>
<13as6jdrep4eua3@corp.supernews.com>
<1186327639.652737.200170@d55g2000hsg.googlegroups.com>
In-Reply-To: <1186327639.652737.200170@d55g2000hsg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 11
Message-ID: <irnti.10314$vi3.5374@newsfe2-gui.ntli.net>
Date: Sun, 05 Aug 2007 17:05:18 GMT
NNTP-Posting-Host: 80.7.15.154
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe2-gui.ntli.net 1186333518 80.7.15.154 (Sun, 05 Aug 2007 18:05:18
BST)
NNTP-Posting-Date: Sun, 05 Aug 2007 18:05:18 BST
Organization: ntl Cablemodem News Service
Xref: g2news2.google.com uk.radio.amateur:10667 rec.radio.amateur.homebrew:691

on 05/08/2007 16:27 bigorangebus said the following:
>
> If we expect every company we deal with as amatuer electronics
> enthusiasts to have a call centre and list streams of directors I
> think we would find them thin on the ground in our specialist area!
>
and VERY expensive!
--
;-)
73 de Frank Turner-Smith G3VKI - mine's a pint.
http://turner-smith.co.uk


From -5014608950412565137
X-Google-Thread: fc2a5,c338e655054a6805
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!news1.google.com!news.glorb.com!feed.news.qwest.net!mpls-nntp-01.inet.qwest.net!news.qwest.net!not-for-mail
Date: Sun, 05 Aug 2007 18:19:35 -0700
From: PhattyMo <PhattyMo@nospam.gmail>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Subwoofer/Amp project...
References: <1186306197.584546.236080@d30g2000prg.googlegroups.com>
In-Reply-To: <1186306197.584546.236080@d30g2000prg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 15
Message-ID: <46b676d9$0$494$815e3792@news.qwest.net>
Organization: Qwest Communications Corporation
NNTP-Posting-Host: d2c00e00.news.qwest.net
X-Trace: DXC=FR3Z<[?WAXB9<aiA=cai\MF85SKJoGf>DiFl4kob=b[M3<4fknPZf>HTi]mQXjR>fHl8Ga;RTVaFK3^ee5BE4HNCTL=Mn9:i9lN
X-Complaints-To: abuse@qwest.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:693

<Mega SNIP>

> Mark V Electronics, Inc. -
> Mark V Electronics, Inc. 8019 E. Slauson Ave. Montebello, CA 90640
> Phone: 323-888-8988 http://www.markvelectronics.com/store E-mail:
> MARK5CO@aol.com http://www.markvelectronics.com -out of California
> markets.

What's all this fuss on Usenet lately about Mark V?!
This is like the 8th post I've seen about them lately,Didn't they go out
of business several years ago?

confused

From -8603402215156660097
X-Google-Thread: fc2a5,82ac638632ad9d82,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!newscon02.news.prodigy.net!prodigy.net!nx02.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-mail
From: Dante <Dante8488488@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: If the plate choke changes value how does it affect the plate tuning capacitor?
Date: Sun, 05 Aug 2007 23:05:00 -0400
Message-ID: <7j3db39tjrequ1he37ho9m0nac3h61kee3@4ax.com>
X-Newsreader: Forte Free Agent 3.1/32.783

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 9
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:694

In the amplifier compartment of a 1970s vintage ham radio, if the plate choke in the B+ supply lost some of it's inductance due to some of the coil windings shorting together would it cause the plate tuning capacitor to require less capacitance (such as fully open) to reach resonance?

-Curios.

From -4238413942842400828
X-Google-Thread: fc2a5,ead5966f46518bd8
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-02!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube Power Oscillator not working properly
Date: Sun, 05 Aug 2007 22:35:58 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13bd5olq52jjv83@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <1185369660.545823.196480@o61g2000hsh.googlegroups.com>
In-Reply-To: <1185369660.545823.196480@o61g2000hsh.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 23
Xref: g2news2.google.com rec.radio.amateur.homebrew:695

peterpion@yahoo.com wrote:

> Hi,
>
> I am trying to build a tube power oscillator...

<snip>

Although very incomplete and of low visual resolution, schematics and cabling information for the V1's radio are at:

http://www.zenza.se/vw/v1_radio.html

Its power oscillator, running with 1kV on the plate, is at:

http://www.zenza.se/vw/gh%20bilder/gh512a_b.jpg

It appears to use interelectrode and stray capacitance to
resonate the tank; no component values are given ;(

Regards,

Michael

From -1956289217642258178
X-Google-Thread: fc2a5,2e271be5b309dc23,start
X-Google-Thread: fc8b1,2e271be5b309dc23,start
X-Google-Attributes: gidfc2a5,gidfc8b1,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Any suggestions for good way to store loose tubes?
Date: 5 Aug 2007 23:10:54 -0500
Organization: Kansas State University
Lines: 22
Message-ID: <f9670e$fjk@unix1.cc.ksu.edu>
NNTP-Posting-Host: unix1.cc.ksu.edu
X-Trace: cnn.cns.ksu.edu 1186373455 18052 129.130.12.3 (6 Aug 2007 04:10:55 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Mon, 6 Aug 2007 04:10:55 +0000 (UTC)
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:696
rec.radio.amateur.boatanchors:873

Double-posted to rec.radio.amateur.homebrew and r.r.a.boatanchors

Tubes in their original boxes are easy to store; just line them up on
little shelves which have enough "lip" to keep them from falling off.
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and 9-pin and octal bases; plus a few bigger ones, such as 807/1625,
1619, etc.) Has anyone found a really-good way to store loose tubes?

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some tube-base-diameter holes in a piece of 2x2 (actually 1.5x1.5) so
they'll stand on end; looks nice and would be easy to mount as shelves,
but will probably cost a fortune in spade drill bits!

Any suggestions?

--
--Myron A. Calhoun.
Five boxes preserve our freedoms: soap, ballot, witness, jury, and cartridge
NRA Life Member & Certified Instructor for Rifle, Pistol, & Home Firearm Safety
Also Certified Instructor for the Kansas Concealed-Carry Handgun (CCH) license

From 2013103476942497220
X-Google-Thread: fc2a5,2e271be5b309dc23
X-Google-Thread: fc8b1,2e271be5b309dc23
X-Google-Attributes: gidfc2a5,gidfc8b1,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!wns11feed!
worldnet.att.net!63.218.45.10!nx01.iad01.newshosting.com!newshosting.com!novia!
border2.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 06 Aug 2007 05:56:49 -0500
Date: Mon, 06 Aug 2007 10:56:48 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Any suggestions for good way to store loose tubes?
References: <f9670e$fjk@unix1.cc.ksu.edu>
In-Reply-To: <f9670e$fjk@unix1.cc.ksu.edu>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <lcadnW2efsPsYyvbnZ2dnUVZ_ternZ2d@bright.net>
Lines: 31
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
ZuaflAfc1E9a1ZDkGbacQkg+I7sHtWLNo5ZZfDTk7ZZMQ6Bh7g8KVG1Vy2sCgy5JhPH2x1GIQGshjXz!
fafom8so12xURXEJxxKZJSF6RyhsCHyI3CFwl7DNfATxyfx777wFUJdbEBePfHXOOmB/WXmePFUo!
bRoxN+zEEA==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
X-Original-Bytes: 2651
Xref: g2news2.google.com rec.radio.amateur.homebrew:697
rec.radio.amateur.boatanchors:875

How about some 1/2 or 3/4 inch pink insulation "styrofoam" board? Cut
it to fit on top of a shelf. Maybe drill a hole for the tube's plastic
center indexing post (if it has one) and let the actual pins poke into

the styrofoam to hold the tube to it...

mcalhoun@ksu.edu wrote:
> Double-posted to rec.radio.amateur.homebrew and r.r.a.boatanchors
>
> Tubes in their original boxes are easy to store; just line them up on
> little shelves which have enough "lip" to keep them from falling off.
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> they'll stand on end; looks nice and would be easy to mount as shelves,
> but will probably cost a fortune in spade drill bits!
>
> Any suggestions?
>

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

From 1589531508136213975
X-Google-Thread: fc2a5,2e271be5b309dc23
X-Google-Thread: fc8b1,2e271be5b309dc23
X-Google-Attributes: gidfc2a5,gidfc8b1,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc01.POSTED!291cd109!not-for-mail
From: Al <no.spam@wanted.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Any suggestions for good way to store loose tubes?
References: <f9670e$fjk@unix1.cc.ksu.edu>
User-Agent: MT-NewsWatcher/3.1 (PPC)
Message-ID: <no.spam-E37EFF.08251406082007@news.verizon.net>
Lines: 23
Date: Mon, 06 Aug 2007 12:25:41 GMT
NNTP-Posting-Host: 68.239.26.225
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc01 1186403141 68.239.26.225 (Mon, 06 Aug 2007 08:25:41 EDT)
NNTP-Posting-Date: Mon, 06 Aug 2007 08:25:41 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:698
rec.radio.amateur.boatanchors:876
X-Original-Bytes: 1898

In article <f9670e$fjk@unix1.cc.ksu.edu>, mcalhoun@ksu.edu wrote:

> Double-posted to rec.radio.amateur.homebrew and r.r.a.boatanchors
>
> Tubes in their original boxes are easy to store; just line them up on
> little shelves which have enough "lip" to keep them from falling off.
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> have boxes and boxes (shoe-box size boxes) of loose tubes (mostly 7-
> and 9-pin and octal bases; plus a few bigger ones, such as 807/1625,
> 1619, etc.) Has anyone found a really-good way to store loose tubes?
>
> I've considered making some flat shelves (with enough "lip" ...) and
> just laying the tubes down horizontally side by side. I've also drilled
> some tube-base-diameter holes in a piece of 2x2 (actually 1.5x1.5) so
> they'll stand on end; looks nice and would be easy to mount as shelves,
> but will probably cost a fortune in spade drill bits!
>
> Any suggestions?

Egg cartons? Cut a tube side hole in the top. In my location, they are
now using plastic ones rather than the old pressed paper ones.

Al

```
From -7400562828459889409
X-Google-Thread: fc2a5,2e271be5b309dc23
X-Google-Thread: fc8b1,2e271be5b309dc23
X-Google-Attributes: gidfc2a5,gidfc8b1,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!panix!
panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Any suggestions for good way to store loose tubes?
Date: 6 Aug 2007 09:00:00 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 14
Message-ID: <f9760g$qf1$1@panix2.panix.com>
References: <f9670e$fjk@unix1.cc.ksu.edu>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1186405200 9443 166.84.1.2 (6 Aug 2007 13:00:00 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 6 Aug 2007 13:00:00 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.homebrew:699
rec.radio.amateur.boatanchors:877
```

In article <f9670e$fjk@unix1.cc.ksu.edu>, <mcalhoun@ksu.edu> wrote:
>
>Tubes in their original boxes are easy to store; just line them up on

>little shelves which have enough "lip" to keep them from falling off.
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>and 9-pin and octal bases; plus a few bigger ones, such as 807/1625,
>1619, etc.) Has anyone found a really-good way to store loose tubes?

Buy replacement boxes! Antique Electronics Supply stocks them, so do a
lot of hamfest tube dealers. They aren't expensive.
--scott
--
"C'est un Nagra. C'est suisse, et tres, tres precis."

From -3563166622046959494
X-Google-Thread: fc2a5,2e271be5b309dc23
X-Google-Thread: fc8b1,2e271be5b309dc23
X-Google-Attributes: gidfc2a5,gidfc8b1,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 06 Aug 2007 10:44:02 -0500
Date: Mon, 06 Aug 2007 11:47:48 -0400
From: K3HVG <jeepp@comcast.net>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Any suggestions for good way to store loose tubes?
References: <f9670e$fjk@unix1.cc.ksu.edu>
In-Reply-To: <f9670e$fjk@unix1.cc.ksu.edu>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <O6OdnbesgaIe3CrbnZ2dnUVZ_uSgnZ2d@comcast.com>
Lines: 24
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 68.33.111.19
X-Trace: sv3-DzzrKbZYrjC3XT07SNeVioHye9aZmYopH5m1NIaFYpIU8qg1nlUhZWEVkj/
kxixpX1FnhBaNdwRoZI9!
37KqjPXI2GEDSRFvNFwyZGvoA3ESDEUIPOXLgzNscgIUer6FlakdkQuM3wg57E1guECs82PA+TW4!
B77oe/Dhfz8r6B5c1LTJul7XiQRv
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:700
rec.radio.amateur.boatanchors:881

mcalhoun@ksu.edu wrote:
> Double-posted to rec.radio.amateur.homebrew and r.r.a.boatanchors
>
> Tubes in their original boxes are easy to store; just line them up on

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> but will probably cost a fortune in spade drill bits!
>
> Any suggestions?
>

I'll add that either Antique or Angela Instruments have boxes galore.
Also, Antique and other have a egg-crate type dividers especially for
various tube sizes. I just bought several hundred boxes from Angela
with the Westinghouse logo. They're cheap if you can live with the
logo!!!! hi!!   de Jeep/K3HVG

From -1976347058219108397
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!57g2000hsv.googlegroups.com!not-for-mail
From: bigorangebus <bigorangebus@yahoo.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: USB (the other one!) A2D converters?
Date: Mon, 06 Aug 2007 09:23:02 -0700
Organization: http://groups.google.com
Lines: 24
Message-ID: <1186417382.083679.114660@57g2000hsv.googlegroups.com>
References: <f8eben$55g$1@aioe.org>
   <1185617823.742752.24670@k79g2000hse.googlegroups.com>
   <f8f8b0$fm2$1@aioe.org>
   <13as6jdrep4eua3@corp.supernews.com>
   <1186327639.652737.200170@d55g2000hsg.googlegroups.com>
   <f94s44$s8a$1@aioe.org>
NNTP-Posting-Host: 88.109.36.202
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1186417382 23408 127.0.0.1 (6 Aug 2007 16:23:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 6 Aug 2007 16:23:02 +0000 (UTC)
In-Reply-To: <f94s44$s8a$1@aioe.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.8.1.6) Gecko/20070725 Firefox/2.0.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com

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Injection-Info: 57g2000hsv.googlegroups.com; posting-host=88.109.36.202;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com uk.radio.amateur:10788 rec.radio.amateur.homebrew:701

On Aug 5, 4:59 pm, "G \"Guglielmo\" Evans G4SDW" <no.s...@thank.you>
wrote:
> "bigorangebus" <bigorange...@yahoo.com> wrote in message
>
> news:1186327639.652737.200170@d55g2000hsg.googlegroups.com...
>
> > There are lots of companies online that dont show addresses or phone
> > numbers online, so I cant believe it is illegal not listing them!
> > Otherwise all those webspace providers would be breaking the rules!
>
> > I think its a silly to post a comment stating that they are not "bona-
> > fide" unless you can post evidence to suggest this.
>
> The evidence is their web site which does not comply with UK law
> as to revealing the business address and names of directors.

Do you have a web link to information on this requirement?  I'm
curious.

How do businesses operate that are partnerships or sole traders?  It
is not a requirement for a business in the UK to have directors, so
how can they all be required to show them.  You're suggesting you have
to be a limited company (they have directors) to trade on the net....



From 84717171888594022
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!19g2000hsx.googlegroups.com!not-for-
mail
From:  David Powell <davidgpowell@gmail.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: USB (the other one!) A2D converters?
Date: Mon, 06 Aug 2007 16:33:00 -0000
Organization: http://groups.google.com
Lines: 9
Message-ID: <1186417980.743253.125820@19g2000hsx.googlegroups.com>
References: <f8eben$55g$1@aioe.org>
   <1185617823.742752.24670@k79g2000hse.googlegroups.com>
   <f8f8b0$fm2$1@aioe.org>
   <13as6jdrep4eua3@corp.supernews.com>
   <1186327639.652737.200170@d55g2000hsg.googlegroups.com>
   <f94s44$s8a$1@aioe.org>
   <1186417382.083679.114660@57g2000hsv.googlegroups.com>
NNTP-Posting-Host: 81.168.10.105
Mime-Version: 1.0
```

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Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1186417980 25125 127.0.0.1 (6 Aug 2007 16:33:00 GMT)
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NNTP-Posting-Date: Mon, 6 Aug 2007 16:33:00 +0000 (UTC)
In-Reply-To: <1186417382.083679.114660@57g2000hsv.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.6)
Gecko/20070725 Firefox/2.0.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 19g2000hsx.googlegroups.com; posting-host=81.168.10.105;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com uk.radio.amateur:10789 rec.radio.amateur.homebrew:702

On Aug 6, 5:23 pm, bigorangebus <bigorange...@yahoo.com> wrote:

> Do you have a web link to information on this requirement?  I'm
> curious.

http://preview.tinyurl.com/2fbnzy

David




From 6940877852020426470
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!aioe.org!not-for-mail
From: "Paul" <noway@private.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: USB (the other one!) A2D converters?
Date: Mon, 6 Aug 2007 17:40:26 +0100
Organization: Aioe.org NNTP Server
Lines: 18
Message-ID: <f97itp$gjo$1@aioe.org>
References: <f8eben$55g$1@aioe.org>
<1185617823.742752.24670@k79g2000hse.googlegroups.com>   <f8f8b0$fm2$1@aioe.org>
<13as6jdrep4eua3@corp.supernews.com>
<1186327639.652737.200170@d55g2000hsg.googlegroups.com>   <f94s44$s8a$1@aioe.org>
<1186417382.083679.114660@57g2000hsv.googlegroups.com>
<1186417980.743253.125820@19g2000hsx.googlegroups.com>
NNTP-Posting-Host: Yr5HT4LwUIVYzQREuwIjKA.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com uk.radio.amateur:10791 rec.radio.amateur.homebrew:703
```

"David Powell" <davidgpowell@gmail.com> wrote in message
news:1186417980.743253.125820@19g2000hsx.googlegroups.com...

```
> On Aug 6, 5:23 pm, bigorangebus <bigorange...@yahoo.com> wrote:
>
>> Do you have a web link to information on this requirement?  I'm
>> curious.
>
> http://preview.tinyurl.com/2fbnzy
```

That applies to limited companies and partnerships. Not sole trader concerns.

David

```
From 4662739486685536879
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!22g2000hsm.googlegroups.com!not-for-
mail
From:  bigorangebus <bigorangebus@yahoo.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: USB (the other one!) A2D converters?
Date: Mon, 06 Aug 2007 09:42:01 -0700
Organization: http://groups.google.com
Lines: 58
Message-ID: <1186418521.637358.300730@22g2000hsm.googlegroups.com>
References: <f8eben$55g$1@aioe.org>
   <1185617823.742752.24670@k79g2000hse.googlegroups.com>
   <f8f8b0$fm2$1@aioe.org>
   <13as6jdrep4eua3@corp.supernews.com>
   <1186327639.652737.200170@d55g2000hsg.googlegroups.com>
   <p1bcb3tsvl2dmgaicdd3u23l8piqerjec1@4ax.com>
NNTP-Posting-Host: 88.109.36.202
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1186418521 5934 127.0.0.1 (6 Aug 2007 16:42:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 6 Aug 2007 16:42:01 +0000 (UTC)
In-Reply-To: <p1bcb3tsvl2dmgaicdd3u23l8piqerjec1@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.8.1.6)
Gecko/20070725 Firefox/2.0.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 22g2000hsm.googlegroups.com; posting-host=88.109.36.202;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com uk.radio.amateur:10792 rec.radio.amateur.homebrew:704
```

On Aug 5, 9:04 pm, Cheemag <chee...@yahoo.co.uk> wrote:
> On Sun, 05 Aug 2007 08:27:19 -0700, bigorangebus <bigorange...@yahoo.com>
> wrote:
>
> >I received both the boards I ordered from Mirrorbow in a few days and
> >all my email enquiries were answered extremely quickly and
> >thoroughly. I guess they are not a multinational, and Ive never had
> >cause to ring them. However, payment is via Palpal which I believe
> >offer a degree of protection anyway. My invoice on delivery had their
> >address on it.
>
> >There are lots of companies online that dont show addresses or phone
> >numbers online, so I cant believe it is illegal not listing them!
> >Otherwise all those webspace providers would be breaking the rules!
>
>   I understand that the law in the UK requires that they show at
> least an address and telephone number if the website is located
> here.
>
> --
>
> 73, Jim, G4RGA
>
> Rally Info:http://www.g4rga.org.uk

I didnt imagine putting this very helpful company in my post was going
to create so many problems and I feel a bit guilty now!
I found this on the web:
****
According to Outlaw, the following is the minimum information that
must be on any company's website.

    * The name, geographic address and email address of the service
provider. The name of the organisation with which the customer is
contracting must be given. This might differ from the trading name.
Any such difference should be explained ??? e.g. "XYZ.com is the
trading name of XYZ Enterprises Limited."

      It is not sufficient to include a 'contact us' form without also
providing an email address and geographic address somewhere easily
accessible on the site. A PO Box is unlikely to suffice as a
geographic address; but a registered office address would. If the
business is a company, the registered office address must be
included.
****

I sent it to mirrorbow and they said they would put an address up on
the contact page http://www.mirrorbow.com/contact.htm so it should be
there by the time people read this. The company is privately owned
and does not have directors apparently, and they said that they didnt
post an address as they do not have the facilities to receive
customers.

I would recommend you email the mirrorbow guys and ask you're
technical questions before ordering. I was impressed by the friendly
help I received.

```
From -3004706898056902843
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!r34g2000hsd.googlegroups.com!not-for-
mail
From:  David Powell <davidgpowell@gmail.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: USB (the other one!) A2D converters?
Date: Mon, 06 Aug 2007 16:45:02 -0000
Organization: http://groups.google.com
Lines: 13
Message-ID: <1186418702.326011.208670@r34g2000hsd.googlegroups.com>
References: <f8eben$55g$1@aioe.org>
   <1185617823.742752.24670@k79g2000hse.googlegroups.com>
   <f8f8b0$fm2$1@aioe.org>
   <13as6jdrep4eua3@corp.supernews.com>
   <1186327639.652737.200170@d55g2000hsg.googlegroups.com>
   <f94s44$s8a$1@aioe.org>
   <1186417382.083679.114660@57g2000hsv.googlegroups.com>
   <1186417980.743253.125820@19g2000hsx.googlegroups.com>
   <f97itp$gjo$1@aioe.org>
NNTP-Posting-Host: 81.168.10.105
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1186418702 27135 127.0.0.1 (6 Aug 2007 16:45:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 6 Aug 2007 16:45:02 +0000 (UTC)
In-Reply-To: <f97itp$gjo$1@aioe.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.6)
Gecko/20070725 Firefox/2.0.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: r34g2000hsd.googlegroups.com; posting-host=81.168.10.105;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com uk.radio.amateur:10793 rec.radio.amateur.homebrew:705
```

On Aug 6, 5:40 pm, "Paul" <no...@private.com> wrote:

> >http://preview.tinyurl.com/2fbnzy
>
> That applies to limited companies and partnerships. Not sole trader
> concerns.

Yes - I'm not aware of any equivalent regulations apply to sole
traders or partnerships (other than limited liability partnerships -
LLPs).

David

```
From 7471265371642237224
X-Google-Thread: fc2a5,2e271be5b309dc23
X-Google-Thread: fc8b1,2e271be5b309dc23
X-Google-Attributes: gidfc2a5,gidfc8b1,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 06 Aug 2007 14:45:11 -0500
Date: Mon, 06 Aug 2007 20:45:12 +0100
From: charlie <wehatespam@wymsey.co.uk>
User-Agent: Thunderbird 1.5.0.12 (X11/20060911)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Any suggestions for good way to store loose tubes?
References: <f9670e$fjk@unix1.cc.ksu.edu>
In-Reply-To: <f9670e$fjk@unix1.cc.ksu.edu>
X-Enigmail-Version: 0.95.2
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-ID: <B8udnUJ-Bfna5yrbnZ2dnUVZ8vednZ2d@pipex.net>
Lines: 27
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 85.210.18.13
X-Trace: sv3-kH7WRY/lJIF7zjVDv1lt4h9zkND6zAOvOKZWgSaAkITGCRtcn1ExqY5QqqicEnlFwG/
iSSU6k1WtJ0I!3wz9pZ+tuqsrlYT+3pSobPO1BH6XWp+c2yQ/CQ3r0rY4uQ/
My3g3x2FattwCT0MX6fNFsNn9DFR/!WYS2TmmScIAv1DGxCEmtHGqg
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:706
rec.radio.amateur.boatanchors:884
```

mcalhoun@ksu.edu wrote:
> Double-posted to rec.radio.amateur.homebrew and r.r.a.boatanchors
>
> Tubes in their original boxes are easy to store; just line them up on
> little shelves which have enough "lip" to keep them from falling off.
> But what about tubes which are NOT in individual boxes? I currently
> have boxes and boxes (shoe-box size boxes) of loose tubes (mostly 7-
> and 9-pin and octal bases; plus a few bigger ones, such as 807/1625,
> 1619, etc.) Has anyone found a really-good way to store loose tubes?

>
> I've considered making some flat shelves (with enough "lip" ...) and
> just laying the tubes down horizontally side by side. I've also drilled
> some tube-base-diameter holes in a piece of 2x2 (actually 1.5x1.5) so
> they'll stand on end; looks nice and would be easy to mount as shelves,
> but will probably cost a fortune in spade drill bits!
>
> Any suggestions?
>

Toilet roll and kitchen roll cardboard formers?

Charlie.

--
M0WYM
www.radiowymsey.org

From 5598880831987644882
X-Google-Thread: fc2a5,56727e4f00909c7c,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr14.news.prodigy.net.POSTED!add6133f!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: New HRO Receiver group
From: Gary@ removenospamandputkf9cm.com
X-Newsreader: News Rover 12.2.0 (http://www.NewsRover.com)
Lines: 12
Message-ID: <7GLti.32290$2v1.1403@newssvr14.news.prodigy.net>
NNTP-Posting-Host: 76.240.102.158
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr14.news.prodigy.net 1186432771 ST000 76.240.102.158 (Mon, 06 Aug
2007 16:39:31 EDT)
NNTP-Posting-Date: Mon, 06 Aug 2007 16:39:31 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
Q[R_PJSCTS@WR\@ZTZJVOP@@FJT@QDDMEPWXODMMHXMTWA]EPUUEAE[YETZPIWWI[FCIZA^NBFXZ_D[BFN
TCNVPDTNTKHWXKB@X^B_OCJLPZ@ET_O[G\XSG@E\G[ZKVLBL^CJINM@I_KVIOR\T_M_AW_M[_BWU_HFA_]
@A_A^SGFAUDE_DFTMQPFWVW[QPJN
Date: Mon, 06 Aug 2007 20:39:31 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:707

Well I've started another discussion group for the National HRO Receiver. I
couldn't find a group that dealt with this particular radio. So if you own
an HRO or are just interested in them, why not join.

TNX de Gary, KF9CM

http://groups.yahoo.com/group/HROreceiver/

```
From 5726695635050207205
X-Google-Thread: fc2a5,56727e4f00909c7c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
140.99.99.194.MISMATCH!news-in-02.newsfeed.easynews.com!easynews.com!easynews!
hwmnpeer01.phx!news.highwinds-media.com!hw-filter.phx!newsfe06.phx.POSTED!
53ab2750!not-for-mail
From: "The Shadow" <Repose@Zilch.com>
Newsgroups: rec.radio.amateur.homebrew
References: <7GLti.32290$2v1.1403@newssvr14.news.prodigy.net>
Subject: Re: New HRO Receiver group
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <pNPti.37697$TW6.13198@newsfe06.phx>
Date: Mon, 6 Aug 2007 18:24:33 -0700
NNTP-Posting-Host: 72.197.13.209
X-Complaints-To: admin@cox.net
X-Trace: newsfe06.phx 1186449621 72.197.13.209 (Mon, 06 Aug 2007 18:20:21 MST)
NNTP-Posting-Date: Mon, 06 Aug 2007 18:20:21 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:708
```

<Gary@ removenospamandputkf9cm.com> wrote in message
news:7GLti.32290$2v1.1403@newssvr14.news.prodigy.net...

```
> Well I've started another discussion group for the National HRO Receiver.
> I
> couldn't find a group that dealt with this particular radio. So if you own
> an HRO or are just interested in them, why not join.
>
>
> TNX de Gary, KF9CM
>
>
>
>
>
> http://groups.yahoo.com/group/HROreceiver/
```

Good one - thanks - Lamont

From 5849111702864588368
X-Google-Thread: fc2a5,2e271be5b309dc23
X-Google-Thread: fc8b1,2e271be5b309dc23
X-Google-Attributes: gidfc2a5,gidfc8b1,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!57g2000hsv.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Any suggestions for good way to store loose tubes?
Date: Tue, 07 Aug 2007 09:56:28 -0700
Organization: http://groups.google.com
Lines: 32
Message-ID: <1186505788.119208.281580@57g2000hsv.googlegroups.com>
References: <f9670e$fjk@unix1.cc.ksu.edu>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1186505788 2844 127.0.0.1 (7 Aug 2007 16:56:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 7 Aug 2007 16:56:28 +0000 (UTC)
In-Reply-To: <f9670e$fjk@unix1.cc.ksu.edu>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 57g2000hsv.googlegroups.com; posting-host=170.121.15.35;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:709 rec.radio.amateur.boatanchors:894

On Aug 6, 12:10 am, mcalh...@ksu.edu wrote:
> Double-posted to rec.radio.amateur.homebrew and r.r.a.boatanchors
>
> Tubes in their original boxes are easy to store; just line them up on
> little shelves which have enough "lip" to keep them from falling off.
> But what about tubes which are NOT in individual boxes? I currently
> have boxes and boxes (shoe-box size boxes) of loose tubes (mostly 7-
> and 9-pin and octal bases; plus a few bigger ones, such as 807/1625,
> 1619, etc.) Has anyone found a really-good way to store loose tubes?
>
> I've considered making some flat shelves (with enough "lip" ...) and
> just laying the tubes down horizontally side by side. I've also drilled
> some tube-base-diameter holes in a piece of 2x2 (actually 1.5x1.5) so
> they'll stand on end; looks nice and would be easy to mount as shelves,
> but will probably cost a fortune in spade drill bits!
>
> Any suggestions?

If these are random used/unknown tubes of no particular value, the economical solution is to toss them in shoeboxes or larger boxes and not do anything to protect them. It's questional economics to keep them lying around for another 20 or 30 or 40 or 50 more years!

If these are known good tubes with some value above zero, cardboard boxes for all the common tube sizes (in particular the sizes you mention) are available from AES, Angela, etc.

If you are a distributor with thousands and thousands of tubes coming in from the far east or Russia, eggcrate-divider packing is popular.

Tim.

From -760272537829216946
X-Google-Thread: fc2a5,b3c98499bc6bcdf3,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out04a.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!spln!
extra.newsguy.com!newsp.newsguy.com!enews2
From: supernews@rec.radio.amateur.homebrew
Newsgroups: rec.radio.amateur.homebrew
Subject: rec.radio.amateur.homebrew scheduled for sporge flood
Followup-To: sci.crypt
Date: Thu, 9 Aug 2007 00:32:35 GMT
Organization: you bother soviet hostilitys let alone the detailed live cloud, whilst Mohammar slowly prevails them too
Lines: 11
Approved: supernews@rec.radio.amateur.homebrew
Message-ID: <027512838A9496582@64.209.0.87>
NNTP-Posting-Host:
p7148bfbfff000000b1a4ddb2afb62f2d75db35eb1b0e2288b219470c50e124af.newsdawg.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:710

Sporge flooding of rec.radio.amateur.homebrew will commence in a few hours.

This will render rec.radio.amateur.homebrew useless. For an example, see Sci.Crypt.

Supernews filters out this sporgery spam. Get a better Usenet experience. Sign up for our risk-free trial today!

https://www.supernews.com/signup

--
He will before derive upon intellectual metropolitan pools.

From 5929134336914932467

```
X-Google-Thread: fc2a5,954c9aa7c39c4c21,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe24.lga.POSTED!53ab2750!not-for-mail
From: "genev" <genev2000@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: need old pop electronics article
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <qP5vi.1115$q_5.287@newsfe24.lga>
Date: Fri, 10 Aug 2007 18:40:22 -0400
NNTP-Posting-Host: 72.209.6.132
X-Complaints-To: admin@cox.net
X-Trace: newsfe24.lga 1186785622 72.209.6.132 (Fri, 10 Aug 2007 15:40:22 MST)
NNTP-Posting-Date: Fri, 10 Aug 2007 15:40:22 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:711
```

Hi,
I am looking for a copy of a construction article on a single compactron FM
receiver. The article appeared in an 1961 issue of Popular Electronics.
If anyone has the issue and would copy the article for me I would pay them
for their trouble.
Richard
K1TAV

```
From -7167904408360288546
X-Google-Thread: fc2a5,954c9aa7c39c4c21
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe16.lga.POSTED!53ab2750!not-for-mail
From: "genev" <genev2000@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <qP5vi.1115$q_5.287@newsfe24.lga>
<8bvpb31a9p428o9c2ga14r8bs7jidni0eg@4ax.com>
Subject: Re: need old pop electronics article
Lines: 5
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <xw7vi.100150$dA7.39750@newsfe16.lga>
Date: Fri, 10 Aug 2007 20:36:38 -0400
```

NNTP-Posting-Host: 72.209.6.132
X-Complaints-To: admin@cox.net
X-Trace: newsfe16.lga 1186792605 72.209.6.132 (Fri, 10 Aug 2007 17:36:45 MST)
NNTP-Posting-Date: Fri, 10 Aug 2007 17:36:45 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:713

I can't believe you found that.
Thanks so much!
Richard

From 5903774372770261932
X-Google-Thread: fc2a5,d40af1bc1b12bfc5,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i38g2000prf.googlegroups.com!not-for-mail
From: fratchj@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: How do I change my tube type am car radio to solid state am fm radio?
Date: Fri, 10 Aug 2007 19:09:16 -0700
Organization: http://groups.google.com
Lines: 5
Message-ID: <1186798156.475518.229790@i38g2000prf.googlegroups.com>
NNTP-Posting-Host: 207.200.116.71
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1186798157 15631 127.0.0.1 (11 Aug 2007 02:09:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 11 Aug 2007 02:09:17 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 6.0; SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/3.1.1.2 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-ntc-tc07.proxy.aol.com[CFC87123] (Prism/1.2.0), HTTP/1.1 cache-ntc-ab07.proxy.aol.com[CFC87447] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: i38g2000prf.googlegroups.com; posting-host=207.200.116.71;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:714

I have a 57 ford radio with town and country, it is tube am. Is there
any articals around on changing this to solid state with fm?

John WA8ZPN

From -647042182032648707

X-Google-Thread: fc2a5,82ac638632ad9d82
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j4g2000prf.googlegroups.com!not-for-mail
From: lw1ecp <danyperez1@yahoo.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: If the plate choke changes value how does it affect the plate tuning capacitor?
Date: Fri, 10 Aug 2007 22:38:25 -0700
Organization: http://groups.google.com
Lines: 14
Message-ID: <1186810705.626676.76830@j4g2000prf.googlegroups.com>
References: <7j3db39tjrequ1he37ho9m0nac3h61kee3@4ax.com>
NNTP-Posting-Host: 200.82.29.229
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1186810706 16325 127.0.0.1 (11 Aug 2007 05:38:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 11 Aug 2007 05:38:26 +0000 (UTC)
In-Reply-To: <7j3db39tjrequ1he37ho9m0nac3h61kee3@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; MEGAUPLOAD 1.0),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j4g2000prf.googlegroups.com; posting-host=200.82.29.229;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:715

This is very strange... less inductance in the plate choke implies
less inductive reactance, thus needing a lower capacitive reactance
(MORE capacitance) in the "plate" capacitor.
Does the Tx perform well otherwise?. Or maybe you are fooled into
thinking you've found resonance, but it is at an harmonic or spurious
oscillation?.
If you've not done it yet, better replace that choke. Shorted turns
mean not only less inductance but also degrade the quality factor, may
introduce a significant power loss (and overheat too).
By the way, 2.5 mH is a common value, but 1 mH or less may be more
than adequate even for 80 m, and with less spurious resonances above
that. It is even better if honey-comb wound (less self capacitance) or
split in sections.

From -3390005504391838425
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l70g2000hse.googlegroups.com!not-for-mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: PA valves anode voltage (was:microwave oven power supply)
Date: Fri, 10 Aug 2007 23:09:42 -0700
Organization: http://groups.google.com
Lines: 51
Message-ID: <1186812582.395223.309940@l70g2000hse.googlegroups.com>
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
   <1185691120.009824.138370@j4g2000prf.googlegroups.com>
   <46acfd4f$0$16577$4c368faf@roadrunner.com>
   <13aqh75b4h0d635@corp.supernews.com>
   <46adb7ea$0$4644$4c368faf@roadrunner.com>
   <46adf445$0$12181$4c368faf@roadrunner.com>
   <46adf9b2$0$12170$4c368faf@roadrunner.com>
   <46b3ede1$1@clear.net.nz>
   <13b81vdn0njjq16@corp.supernews.com>
   <46b5608c@clear.net.nz>
   <p_KdnZkvC7_QPijbnZ2dnUVZ8vednZ2d@pipex.net>
NNTP-Posting-Host: 142.162.129.19
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1186812582 24481 127.0.0.1 (11 Aug 2007 06:09:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 11 Aug 2007 06:09:42 +0000 (UTC)
In-Reply-To: <p_KdnZkvC7_QPijbnZ2dnUVZ8vednZ2d@pipex.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l70g2000hse.googlegroups.com; posting-host=142.162.129.19;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:716

On Aug 5, 8:15 am, Highland Ham <abcgm0csz.kn6wh...@dsl.pipex.com>
wrote:
> > Had a look at the old quad GG 807 type linear.
> > COR! that's a real old bit of ham radio.
> > My own experience with 1625/807's is that with more than 1KV on the
> > plate they didn't survive long. Any mismatch or off-tuning and flashover
> > happened pretty fast. Back in the 1960's I had quite a bin full of duds
> > that went just that way.
> > Recently I had a fault in my modified kenwood 820s which destroyed 2x
> > 6146B's in a similar way. That's with only 850v plate voltage too.
> > However it is true that linear amps tend to work better in a high
> > voltage/low current mode, provided the finals can take it.
> > My old home brew 100watt linear used a TT21 (KT88 with a top cap plate)
> > and that worked fine with 1050 volts. Nice and linear and 66% efficient
> > on 14 Mhz (measured).
> > I once built an 811A GG linear but never needed the extra power so it
> > nevergot on the air.
> > Regards Cliff Wright ZL1BDA
>
> ====================================
> Re the anode voltage used for PA valves ; the older (1968-1973
> generation) Yaesu transceivers (FT 40x & 50x)using TV Line Sweep valves

> (tubes) had 2 HV voltage transformer taps resulting in either 650 or
> 850V-DC .
> I always used 650V since 850V caused the valves to be too hot ,due to
> the limited (1 small fan) cooling .
> Although I have seen designs including 4 line sweep valves in
> parallel, running on 1000 or even 1250 V ,but only with enhanced cooling.
>
> When licenced in 1985 my first transceiver was a FT400 , an excellent
> learning piece of kit, involving some 'fried' PA valves.
>
> Frank   GM0CSZ / KN6WH- Hide quoted text -
>
> - Show quoted text -

Interesting about 'Inverter' power supplies in domestic microwave
ovens.
Here in this part of Canada have never knowingly seen one that was not
115 volt AC input.
I guess one could call them 'Switching power supplies'?
Our appliances have therefore been pretty heavy and usually with the
transformer mounted inside towards one end.
Several owned and subsequently a number scrapped have all had 60 cycle
transformers.
Have read that the transformers go into saturation each half cycle?
It appears that one end of the HV secondary of the transformers is
often grounded to the frame of the transformer.
However often thought that the substantial 60 Hz. transformers would
be the basis for good (non portable) PA power supplies.

From -3563531947535280341
X-Google-Thread: fc2a5,954c9aa7c39c4c21
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe13.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <qP5vi.1115$q_5.287@newsfe24.lga>
<8bvpb31a9p428o9c2ga14r8bs7jidni0eg@4ax.com> <xw7vi.100150$dA7.39750@newsfe16.lga>
Subject: Re: need old pop electronics article
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <S6kvi.126758$BX3.14727@newsfe13.lga>
Date: Sat, 11 Aug 2007 10:56:49 -0400
NNTP-Posting-Host: 68.229.79.253
X-Complaints-To: admin@cox.net

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X-Trace: newsfe13.lga 1186844210 68.229.79.253 (Sat, 11 Aug 2007 07:56:50 MST)
NNTP-Posting-Date: Sat, 11 Aug 2007 07:56:50 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:717


"genev" <genev2000@hotmail.com> wrote in message
news:xw7vi.100150$dA7.39750@newsfe16.lga...
>I can't believe you found that.
> Thanks so much!
> Richard
>
I built that VHF receiver when I was a kid!!!!!!!  6C10 triple triode
compactron: grounded gridRFA, superreg-detector/one stage audio??

Wow. Brings back memories!

Pete





From 6415308716621880923
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-
media.com!hw-filter.lga!newsfe13.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
<1185691120.009824.138370@j4g2000prf.googlegroups.com>
<46acfd4f$0$16577$4c368faf@roadrunner.com>   <13aqh75b4h0d635@corp.supernews.com>
<46adb7ea$0$4644$4c368faf@roadrunner.com>
<46adf445$0$12181$4c368faf@roadrunner.com>
<46adf9b2$0$12170$4c368faf@roadrunner.com>   <46b3ede1$1@clear.net.nz>
<13b81vdn0njjq16@corp.supernews.com>   <46b5608c@clear.net.nz>
<p_KdnZkvC7_QPijbnZ2dnUVZ8vednZ2d@pipex.net>
<1186812582.395223.309940@l70g2000hse.googlegroups.com>
Subject: Re: PA valves anode voltage (was:microwave oven power supply)
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <vbkvi.126760$BX3.10657@newsfe13.lga>
Date: Sat, 11 Aug 2007 11:01:46 -0400
NNTP-Posting-Host: 68.229.79.253
X-Complaints-To: admin@cox.net
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X-Trace: newsfe13.lga 1186844507 68.229.79.253 (Sat, 11 Aug 2007 08:01:47 MST)
NNTP-Posting-Date: Sat, 11 Aug 2007 08:01:47 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:718

"terry" <tsanford@nf.sympatico.ca> wrote in message
news:1186812582.395223.309940@l70g2000hse.googlegroups.com...
> On Aug 5, 8:15 am, Highland Ham <abcgm0csz.kn6wh...@dsl.pipex.com>
> wrote:
>> > Have read that the transformers go into saturation each half cycle?
> It appears that one end of the HV secondary of the transformers is
> often grounded to the frame of the transformer.
> However often thought that the substantial 60 Hz. transformers would
> be the basis for good (non portable) PA power supplies.
>

A ground secondary would mean a half-wave rectifier, which would
place a heavy DC bias on the core and might lead to core saturation long
before the full capacity of the transformer is reached..
Hammond derates their transformers by .28 for halfwave rectification
with capacitor input filtering. I think the current is also limited
by a magnetic shunt on the core (removeable, I think..)

If these new inverter supplies use a higher frequency and smaller
toroidal type core, that might open the possibility for easier
mods for ham use. I'd think it would have been featured in one
of the more technical ham magazines by now, though..

Pete

From -1535919717206479163
X-Google-Thread: fc2a5,82ac638632ad9d82
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!out01b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe23.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <7j3db39tjrequ1he37ho9m0nac3h61kee3@4ax.com>
Subject: Re: If the plate choke changes value how does it affect the plate tuning
capacitor?
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138

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X-RFC2646: Format=Flowed; Original
Message-ID: <XBpvi.7059$Zk5.6269@newsfe23.lga>
Date: Sat, 11 Aug 2007 17:11:19 -0400
NNTP-Posting-Host: 68.229.79.253
X-Complaints-To: admin@cox.net
X-Trace: newsfe23.lga 1186866679 68.229.79.253 (Sat, 11 Aug 2007 14:11:19 MST)
NNTP-Posting-Date: Sat, 11 Aug 2007 14:11:19 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:719
```

"Dante" <Dante8488488@hotmail.com> wrote in message
news:7j3db39tjrequ1he37ho9m0nac3h61kee3@4ax.com...

>
> In the amplifier compartment of a 1970s vintage ham radio, if the
> plate choke in the B+ supply lost some of it's inductance due to some
> of the coil windings shorting together would it cause the plate tuning
> capacitor to require less capacitance (such as fully open) to reach
> resonance?
>
> -Curios.
>

Just an estimate...

I think the plate choke is effectively in parallel with
the plate tuning inductor. But, I suspect ratios between
the two inductances would preclude much interaction
unless there was a major loss failure in the choke.

I'd be more worried about parallel resonances in the
choke falling within the operating bands the amp covers.

```
From 4084822328176470959
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
<1185691120.009824.138370@j4g2000prf.googlegroups.com>
<46acfd4f$0$16577$4c368faf@roadrunner.com>   <13aqh75b4h0d635@corp.supernews.com>
<46adb7ea$0$4644$4c368faf@roadrunner.com>
<46adf445$0$12181$4c368faf@roadrunner.com>
<46adf9b2$0$12170$4c368faf@roadrunner.com>   <46b3ede1$1@clear.net.nz>
<13b81vdn0njjq16@corp.supernews.com>   <46b5608c@clear.net.nz>
<p_KdnZkvC7_QPijbnZ2dnUVZ8vednZ2d@pipex.net>
<1186812582.395223.309940@l70g2000hse.googlegroups.com>
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<vbkvi.126760$BX3.10657@newsfe13.lga>
Subject: Re: PA valves anode voltage (was:microwave oven power supply)
Date: Sat, 11 Aug 2007 18:26:36 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Lines: 41
Message-ID: <46be379b$0$16590$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:720

"Uncle Peter" <radioconnection@cox.net> wrote in message
news:vbkvi.126760$BX3.10657@newsfe13.lga...
>
> "terry" <tsanford@nf.sympatico.ca> wrote in message
> news:1186812582.395223.309940@l70g2000hse.googlegroups.com...
>> On Aug 5, 8:15 am, Highland Ham <abcgm0csz.kn6wh...@dsl.pipex.com>
>> wrote:
>>> > Have read that the transformers go into saturation each half cycle?
>> It appears that one end of the HV secondary of the transformers is
>> often grounded to the frame of the transformer.
>> However often thought that the substantial 60 Hz. transformers would
>> be the basis for good (non portable) PA power supplies.
>>
>
> A ground secondary would mean a half-wave rectifier, which would
> place a heavy DC bias on the core and might lead to core saturation long
> before the full capacity of the transformer is reached..
> Hammond derates their transformers by .28 for halfwave rectification
> with capacitor input filtering. I think the current is also limited
> by a magnetic shunt on the core (removeable, I think..)
>
> If these new inverter supplies use a higher frequency and smaller
> toroidal type core, that might open the possibility for easier
> mods for ham use. I'd think it would have been featured in one
> of the more technical ham magazines by now, though..
>
> Pete
>

"AS IS" the inverter supplies are not suitable for ham use unless you want
to do some EME work on 2.4Ghz. Probably why you havent seen anything about
them. I was just hoping to learn enough about them to make some power
supplies are are usable must like several people have modified the 60 cycle
transformers for various uses.

Jimmie

From 4729590227566279950
X-Google-Thread: fc2a5,82ac638632ad9d82
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <7j3db39tjrequ1he37ho9m0nac3h61kee3@4ax.com>
Subject: Re: If the plate choke changes value how does it affect the plate tuning capacitor?
Date: Sat, 11 Aug 2007 19:13:19 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Lines: 21
Message-ID: <46be4289$0$3100$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:721

"Dante" <Dante8488488@hotmail.com> wrote in message
news:7j3db39tjrequ1he37ho9m0nac3h61kee3@4ax.com...

> In the amplifier compartment of a 1970s vintage ham radio, if the
> plate choke in the B+ supply lost some of it's inductance due to some
> of the coil windings shorting together would it cause the plate tuning
> capacitor to require less capacitance (such as fully open) to reach
> resonance?
>
> -Curios.

A couple of shorted turns would efect the inductnace of the coil a lot more than you are probably thinking. My guess is that you are just aking how a relatively small change inductance would effect the circuit and the answer is none.

Jimmie

From 4514548649447358262
X-Google-Thread: fc2a5,954c9aa7c39c4c21

```
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <qP5vi.1115$q_5.287@newsfe24.lga>
Subject: Re: need old pop electronics article
Date: Sat, 11 Aug 2007 19:16:52 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Lines: 18
Message-ID: <46be4363$0$8034$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:722


"genev" <genev2000@hotmail.com> wrote in message
news:qP5vi.1115$q_5.287@newsfe24.lga...
> Hi,
> I am looking for a copy of a construction article on a single compactron
> FM receiver.  The article appeared in an 1961 issue of Popular
> Electronics.
> If anyone has the issue and would copy the article for me I would pay them
> for their trouble.
> Richard
> K1TAV
>

Public library has these on micro fiche. I noticed recently that they are
changing over to CD. I guess someone cold go in with a lap top and copy
watever they wanted.




From 1146025811528181802
X-Google-Thread: fc2a5,2e271be5b309dc23
X-Google-Thread: fc8b1,2e271be5b309dc23
X-Google-Attributes: gidfc2a5,gidfc8b1,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
References: <f9670e$fjk@unix1.cc.ksu.edu>
Subject: Re: Any suggestions for good way to store loose tubes?
```

Date: Sat, 11 Aug 2007 20:20:22 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Lines: 30
Message-ID: <46be5245$0$30605$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:723
rec.radio.amateur.boatanchors:913

<mcalhoun@ksu.edu> wrote in message news:f9670e$fjk@unix1.cc.ksu.edu...
> Double-posted to rec.radio.amateur.homebrew and r.r.a.boatanchors
>
> Tubes in their original boxes are easy to store; just line them up on
> little shelves which have enough "lip" to keep them from falling off.
> But what about tubes which are NOT in individual boxes? I currently
> have boxes and boxes (shoe-box size boxes) of loose tubes (mostly 7-
> and 9-pin and octal bases; plus a few bigger ones, such as 807/1625,
> 1619, etc.) Has anyone found a really-good way to store loose tubes?
>
> I've considered making some flat shelves (with enough "lip" ...) and
> just laying the tubes down horizontally side by side. I've also drilled
> some tube-base-diameter holes in a piece of 2x2 (actually 1.5x1.5) so
> they'll stand on end; looks nice and would be easy to mount as shelves,
> but will probably cost a fortune in spade drill bits!
>
> Any suggestions?

-Carry Handgun (CCH) license

I used to use cigar boxes. I told the guys at the local drug store to save them for me.
I would sort the tubes and if I had enough of one kind I would dedicate a whole box to it and sometimes I would make dividers.
I know hey have stuff down at he Walmart better than this now..

Jimmie

From 8014134526274144911
X-Google-Thread: fc2a5,2e271be5b309dc23
X-Google-Thread: fc8b1,2e271be5b309dc23
X-Google-Attributes: gidfc2a5,gidfc8b1,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail

From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
References: <f9670e$fjk@unix1.cc.ksu.edu>
<1186505788.119208.281580@57g2000hsv.googlegroups.com>
Subject: Re: Any suggestions for good way to store loose tubes?
Date: Sat, 11 Aug 2007 20:22:33 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Lines: 41
Message-ID: <46be52c8$0$29727$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:724
rec.radio.amateur.boatanchors:914

"Tim Shoppa" <shoppa@trailing-edge.com> wrote in message
news:1186505788.119208.281580@57g2000hsv.googlegroups.com...
> On Aug 6, 12:10 am, mcalh...@ksu.edu wrote:
>> Double-posted to rec.radio.amateur.homebrew and r.r.a.boatanchors
>>
>> Tubes in their original boxes are easy to store; just line them up on
>> little shelves which have enough "lip" to keep them from falling off.
>> But what about tubes which are NOT in individual boxes? I currently
>> have boxes and boxes (shoe-box size boxes) of loose tubes (mostly 7-
>> and 9-pin and octal bases; plus a few bigger ones, such as 807/1625,
>> 1619, etc.) Has anyone found a really-good way to store loose tubes?
>>
>> I've considered making some flat shelves (with enough "lip" ...) and
>> just laying the tubes down horizontally side by side. I've also drilled
>> some tube-base-diameter holes in a piece of 2x2 (actually 1.5x1.5) so
>> they'll stand on end; looks nice and would be easy to mount as shelves,
>> but will probably cost a fortune in spade drill bits!
>>
>> Any suggestions?
>
> If these are random used/unknown tubes of no particular value, the
> economical solution is to toss them in shoeboxes or larger boxes and
> not do anything to protect them. It's questional economics to keep
> them lying around for another 20 or 30 or 40 or 50 more years!
>
> If these are known good tubes with some value above zero, cardboard
> boxes for all the common tube sizes (in particular the sizes you
> mention) are available from AES, Angela, etc.
>
> If you are a distributor with thousands and thousands of tubes coming
> in from the far east or Russia, eggcrate-divider packing is popular.
>
> Tim.
>

If you know what you have you are more likely to use it.

Jimmie

From -2122414481562129854
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe16.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
<1185691120.009824.138370@j4g2000prf.googlegroups.com>
<46acfd4f$0$16577$4c368faf@roadrunner.com> <13aqh75b4h0d635@corp.supernews.com>
<46adb7ea$0$4644$4c368faf@roadrunner.com>
<46adf445$0$12181$4c368faf@roadrunner.com>
<46adf9b2$0$12170$4c368faf@roadrunner.com> <46b3ede1$1@clear.net.nz>
<13b81vdn0njjq16@corp.supernews.com> <46b5608c@clear.net.nz>
<p_KdnZkvC7_QPijbnZ2dnUVZ8vednZ2d@pipex.net>
<1186812582.395223.309940@l70g2000hse.googlegroups.com>
<vbkvi.126760$BX3.10657@newsfe13.lga> <46be379b$0$16590$4c368faf@roadrunner.com>
Subject: Re: PA valves anode voltage (was:microwave oven power supply)
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <Hysvi.113507$dA7.1730@newsfe16.lga>
Date: Sat, 11 Aug 2007 20:32:38 -0400
NNTP-Posting-Host: 68.229.79.253
X-Complaints-To: admin@cox.net
X-Trace: newsfe16.lga 1186878759 68.229.79.253 (Sat, 11 Aug 2007 17:32:39 MST)
NNTP-Posting-Date: Sat, 11 Aug 2007 17:32:39 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:725

"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
news:46be379b$0$16590$4c368faf@roadrunner.com...
>> If these new inverter supplies use a higher frequency and smaller
>> toroidal type core, that might open the possibility for easier
>> mods for ham use. I'd think it would have been featured in one
>> of the more technical ham magazines by now, though..
>>
>> Pete
>>

>
> "AS IS" the inverter supplies are not suitable for ham use unless you want
> to do some EME work on 2.4Ghz. Probably why you havent seen anything about
> them. snip Jimmie

Why is that? Did you find some specifics on the design that would preclude
something like adding filtering to the output to provide a filtered DC
voltage?

Pete
>

```
From 7401876927118082622
X-Google-Thread: 106d41,e25f8e7e7f7cc3a1
X-Google-Thread: 108122,5f4b546f0161ebac,start
X-Google-Thread: fc2a5,5f4b546f0161ebac,start
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j4g2000prf.googlegroups.com!not-for-
mail
From:  Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax has Arrived... Introductory Priced on Ebay
Date: Sun, 12 Aug 2007 08:30:33 -0700
Organization: http://groups.google.com
Lines: 9
Message-ID: <1186932633.661667.170370@j4g2000prf.googlegroups.com>
References: <1186168563.032053.11960@i13g2000prf.googlegroups.com>
   <46b3b6e5_3@mk-nntp-2.news.uk.tiscali.com>
   <1186231447.136481.50550@q3g2000prf.googlegroups.com>
   <u8gkb3di4k2jc329q4l96h2la6ba8kcm67@4ax.com>
   <1186615639.897400.127530@i13g2000prf.googlegroups.com>
   <rb6mb31ubltji64j2lcnflr3an2gp8n7sb@4ax.com>
   <de6mb3lhn4h14j4mmlblmqtsu6h9sum2mp@4ax.com>
NNTP-Posting-Host: 76.197.238.140
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1186932634 23894 127.0.0.1 (12 Aug 2007 15:30:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 12 Aug 2007 15:30:34 +0000 (UTC)
In-Reply-To: <de6mb3lhn4h14j4mmlblmqtsu6h9sum2mp@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1; .NET
CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506;
InfoPath.2),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j4g2000prf.googlegroups.com; posting-host=76.197.238.140;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.cb:2618 rec.radio.amateur.equipment:701
rec.radio.amateur.homebrew:726
```

On Aug 9, 8:43 am, M...@TayleorRobesin.org wrote:

> "one useless man is disgrace 2 become a law firm 3 or more become a congress"

I think this should really read...

"one useless post is disgrace 2 become a nuisance 3 or more become a
CB NG"

```
From 2768940508666725321
X-Google-Thread: fc2a5,d40af1bc1b12bfc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 12 Aug 2007 13:35:28 -0500
Date: Sun, 12 Aug 2007 18:35:28 +0000
From: Scott <acepilot@bloomer.net>
Reply-To:  acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How do I change my tube type am car radio to solid state am fm
 radio?
References: <1186798156.475518.229790@i38g2000prf.googlegroups.com>
In-Reply-To: <1186798156.475518.229790@i38g2000prf.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <IYadnXvI05ltzyLbnZ2dnUVZ_uvinZ2d@bright.net>
Lines: 17
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-RgivWLNa1CrSdSdcmIYDoOQnwEv3rtW/
0opRcpTKYg1Rs3URAHLvZJwavwLlTg2rOZrGzgvkcVW2kKI!
TBDvdYEz5jG3ZEib749CsJhr6GoqmUkHSrA06cuOxEQjtyZ9LAsbiVPjWnTDHXj5FTSdoAfien0f!
Wj9f8OOI5A==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:727
```

Do you mean removing the guts and replacing tubes with with modern solid
state parts or do you mean somehow replacing entire radio with an Alpine
or Pioneer or something that will fit in the hole in the dash?

```
fratchj@aol.com wrote:
> I have a 57 ford radio with town and country, it is tube am.  Is there
> any articals around on changing this to solid state with fm?
>
> John  WA8ZPN
>

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)


From -2077253975364448836
X-Google-Thread: fc2a5,954c9aa7c39c4c21
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news1.google.com!newsfeed.stanford.edu!
news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: need old pop electronics article
Date: 12 Aug 2007 21:24:59 GMT
Organization: The National Capital FreeNet
Lines: 30
Message-ID: <f9ntrb$m5f$1@theodyn.ncf.ca>
References: <qP5vi.1115$q_5.287@newsfe24.lga>
<8bvpb31a9p428o9c2ga14r8bs7jidni0eg@4ax.com> <xw7vi.100150$dA7.39750@newsfe16.lga>
<S6kvi.126758$BX3.14727@newsfe13.lga>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1186953899 22703 134.117.136.48 (12 Aug 2007 21:24:59 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 12 Aug 2007 21:24:59 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:728

"Uncle Peter" (radioconnection@cox.net) writes:
> "genev" <genev2000@hotmail.com> wrote in message
> news:xw7vi.100150$dA7.39750@newsfe16.lga...
>>I can't believe you found that.
>> Thanks so much!
>> Richard
>>
> I built that VHF receiver when I was a kid!!!!!!!  6C10 triple triode
> compactron: grounded gridRFA, superreg-detector/one stage audio??
>
> Wow. Brings back memories!
>
> Pete
>
```

>
Do you remember or did you see the "high end" VHF receiver construction
article that Popular Electronics ran a few years later?

I think it was sort of modularized, so there was a tuneable or more
likely fixed IF section, and then converters for the low band and the
high band and maybe the aero band. It wasn't that spectacular a receiver,
it might have had a tuneable local oscillator going into the first mixer
and certainly the only selectivity came from IF transformers in the
MHz range. But it certainly was more complicated than the run of
the mill "police band" receiver construction articles that were
described in the hobby electronic magazines.

  Michael VE2BVW

From -6149168743086447490
X-Google-Thread: fc2a5,954c9aa7c39c4c21
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-
media.com!hw-filter.lga!newsfe24.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <qP5vi.1115$q_5.287@newsfe24.lga>
<8bvpb31a9p428o9c2ga14r8bs7jidni0eg@4ax.com> <xw7vi.100150$dA7.39750@newsfe16.lga>
<S6kvi.126758$BX3.14727@newsfe13.lga> <f9ntrb$m5f$1@theodyn.ncf.ca>
Subject: Re: need old pop electronics article
Lines: 44
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <KZKvi.2190$q_5.1384@newsfe24.lga>
Date: Sun, 12 Aug 2007 17:30:17 -0400
NNTP-Posting-Host: 68.229.79.253
X-Complaints-To: admin@cox.net
X-Trace: newsfe24.lga 1186954218 68.229.79.253 (Sun, 12 Aug 2007 14:30:18 MST)
NNTP-Posting-Date: Sun, 12 Aug 2007 14:30:18 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:729

"Michael Black" <et472@FreeNet.Carleton.CA> wrote in message
news:f9ntrb$m5f$1@theodyn.ncf.ca...
> "Uncle Peter" (radioconnection@cox.net) writes:
>> "genev" <genev2000@hotmail.com> wrote in message

```
>> news:xw7vi.100150$dA7.39750@newsfe16.lga...
>>>I can't believe you found that.
>>> Thanks so much!
>>> Richard
>>>
>> I built that VHF receiver when I was a kid!!!!!!!  6C10 triple triode
>> compactron: grounded gridRFA, superreg-detector/one stage audio??
>>
>> Wow. Brings back memories!
>>
>> Pete
>>
>>
> Do you remember or did you see the "high end" VHF receiver construction
> article that Popular Electronics ran a few years later?
>
> I think it was sort of modularized, so there was a tuneable or more
> likely fixed IF section, and then converters for the low band and the
> high band and maybe the aero band.  It wasn't that spectacular a receiver,
> it might have had a tuneable local oscillator going into the first mixer
> and certainly the only selectivity came from IF transformers in the
> MHz range.  But it certainly was more complicated than the run of
> the mill "police band" receiver construction articles that were
> described in the hobby electronic magazines.
>
>  Michael  VE2BVW
>

Hi Michael

Probably not, as I was a young teen and picked up what I could afford
at the local newstand. I guess the issue with that earlier compactron
project was one of the ones I happened to buy.  Sad to say, a Heath
VF-1 provided the enclosure!

Pete
>




From 7397844612204057215
X-Google-Thread: fc2a5,d40af1bc1b12bfc5
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-
media.com!hw-filter.lga!newsfe24.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1186798156.475518.229790@i38g2000prf.googlegroups.com>
```

```
<IYadnXvI05ltzyLbnZ2dnUVZ_uvinZ2d@bright.net>
Subject: Re: How do I change my tube type am car radio to solid state am fm radio?
Lines: 14
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <__Kvi.2191$q_5.1918@newsfe24.lga>
Date: Sun, 12 Aug 2007 17:31:37 -0400
NNTP-Posting-Host: 68.229.79.253
X-Complaints-To: admin@cox.net
X-Trace: newsfe24.lga 1186954298 68.229.79.253 (Sun, 12 Aug 2007 14:31:38 MST)
NNTP-Posting-Date: Sun, 12 Aug 2007 14:31:38 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:730

 > fratchj@aol.com wrote:
>> I have a 57 ford radio with town and country, it is tube am.  Is there
>> any articals around on changing this to solid state with fm?
>>
>> John  WA8ZPN
>>
>

Ask Gary Tayman over on rec.antiques.radios&phonos.  He does that
for a living.

Pete k1zjh




From 7251159046985217905
X-Google-Thread: fc2a5,954c9aa7c39c4c21
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!news2.arglkargh.de!
nuzba.szn.dk!pnx.dk!news.albasani.net!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: need old pop electronics article
Date: Sun, 12 Aug 2007 15:30:50 -0700
Organization: albasani.net
Lines: 9
Message-ID: <f9o1mr$flh$2@news.albasani.net>
References: <qP5vi.1115$q_5.287@newsfe24.lga>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.albasani.net
fFA27x9sjUgTi1X9pxqZNDe1DUqhjeg5GFQvqiAlTzVjtSTXPlvjUltyGv8JYNbsTH9HHpoDSMAlH+FRSV
DKhtEbcSBW7k70tsYkSIFgyym3YyAM6rspVWYpCx090yu9
```

X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Sun, 12 Aug 2007 22:30:51 +0000 (UTC)
X-User-ID: OhAX88B9pYTu2dhctYuHFA0mi5tvfCvhi+LJ6kHCqZg=
In-Reply-To: <qP5vi.1115$q_5.287@newsfe24.lga>
Cancel-Lock: sha1:GMBPrc5HsvAAk8Zvlyh7ViwVCWo=
User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)
X-NNTP-Posting-Host:
rioWwIBup1FQAZr4Eddd10SPqEUru0fJ1vdQI7GK+aW8MKz4DOrfiuLnCcDt4vtlQZKFEulXkNahRBgabV
43OA==
Xref: g2news2.google.com rec.radio.amateur.homebrew:731

genev wrote:

> ...

It would be interesting to see an "update" done to this article--using a
quad UHF opamp ...

Regards,
JS

From -3932670483448017614
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!b1a104da!not-for-mail
Message-ID: <46A95BDB.EE65EFC0@earthlink.net>
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Reply-To: mike.terrell@earthlink.net
Organization: http://home.earthlink.net/~mike.terrell/
X-Mailer: Mozilla 4.76 [en] (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
<pan.2007.07.06.06.05.51.297937@localhost.localdomain>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 16
Date: Fri, 27 Jul 2007 02:43:35 GMT
NNTP-Posting-Host: 24.110.34.161
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1185504215 24.110.34.161 (Thu, 26 Jul
2007 19:43:35 PDT)
NNTP-Posting-Date: Thu, 26 Jul 2007 19:43:35 PDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:573

geek wrote:
>

> Looks like an *****************************.

Who is going to believe a circus performer who bites the heads off live chickens for a living?

--
Service to my country? Been there, Done that, and I've got my DD214 to prove it.
Member of DAV #85.

Michael A. Terrell
Central Florida

```
From -1396064262815979888
X-Google-Thread: fc2a5,ead5966f46518bd8
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!z24g2000prh.googlegroups.com!not-for-
mail
From:  Arv-K7HKL <arvid.evans@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube Power Oscillator not working properly
Date: Thu, 26 Jul 2007 21:22:37 -0700
Organization: http://groups.google.com
Lines: 138
Message-ID: <1185510157.859029.40780@z24g2000prh.googlegroups.com>
References: <1185369660.545823.196480@o61g2000hsh.googlegroups.com>
   <f89ndm$nf4$1@aioe.org>
   <x-2dnbRMbI8JrjTbnZ2dnUVZ_vninZ2d@web-ster.com>
NNTP-Posting-Host: 65.101.78.212
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1185510158 10628 127.0.0.1 (27 Jul 2007 04:22:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 27 Jul 2007 04:22:38 +0000 (UTC)
In-Reply-To: <x-2dnbRMbI8JrjTbnZ2dnUVZ_vninZ2d@web-ster.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.4) Gecko/
20070601 Firefox/2.0.0.4 (Swiftfox),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: z24g2000prh.googlegroups.com; posting-host=65.101.78.212;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:574
```

On 26 Jul, 17:57, Tim Wescott <t...@seemywebsite.com> wrote:
> Steve H wrote:
> > peterp...@yahoo.com wrote:
> >> Hi,
>
> >> I am trying to build a tube power oscillator running at 25MHz from a

> >> Russian tube (GI6B), and although I have it running, I can't seem to
> >> ramp up the power to anywhere near the level I want out of it. I am
> >> aiming for 200 to 400 watts, but I seem to be running at just a
> >> handful of watts. Everything I have tried that I assumed would control
> >> this parameter seems to have failed to work...
>
> >> The RF is needed not to transmit but to drive a plasma, but for now I
> >> just want to get the tank coil running the right voltage level. But
> >> with a B+ of about 1000V, I am only getting about 50 volts in the tank
> >> coil.
>
> >> Circuit diagram is available here
> >>http://geocities.com/peterpion/oscillator.jpg
>
> >> Parameters are:
> >> Voltage = 1000V, full wave rectified and smoothed
> >> Tank coil, 5mm copper tube, 7 turns, 5cm diameter, 7cm long, 1.3uH
> >> Tank Cap, air dielectric, 5mm spacing, 13cm square, 31pF, 1.6mm thick
> >> copper plates
> >> Tank circuit is capable of taking at least 100A, very heavily soldered
> >> Feedback coil, 5 turns 2mm copper wire, same diameter as tank coil, 5
> >> cm length, placed on same former with gap of 3cm between tank and
> >> feedback coil.
> >> B+ choke 120 turns on 32mm diameter former
> >> Bias, external 12V supply, fed via a diode to the ground side of the
> >> grid coil, with a 33k resistor going to ground from the same point,
> >> bypassed by a 1nF cap.
>
> >> Although I have it running, both increasing or decreasing the feedback
> >> turns reduces the tank voltage.
>
> >> The tube spec is 350W anode dissipation, mu of 18-26, 2.5KV max, but
> >> with heavy grid current requirements it seems, although I am not quite
> >> clear on this.
>
> >>http://www.nd2x.net/gi6b.html
>
> >> Ive never built anything like this before, and I am lost as to where I
> >> am going wrong. Is it that the tube has too little gain to drive
> >> itself up to those power levels? I assumed that the low gain would
> >> just mean that I had to couple more power back to the grid to make it
> >> work. But if I increase the turns on the feedback winding, it actually
> >> reduces the power - as does reducing the turns. 5 seems to be
> >> optimum.
>
> >> I have taken care to keep all leads short - very short (1 to 3 inches
> >> mostly). Rats nest construction. Have tried several types of caps, all
> >> apparently rated for heavy RF use. Even rolled my own caps from copper
> >> sheet and polyethylene which work the same as the other caps.
>
> >> On the scope, I can see that I never drive the grid into positive.
> >> This seems wrong to me, but nothing I do makes it go positive. On the
> >> plate, all I see on the scope is a tiny 50v drop (at 25MHz) when the

> >> tube is supposedly hard on, ie the tube at the most on condition
> >> through the cycle, still has about 950V across it. So I assume that I
> >> am not turning the grid on enough.
>
> >> I am wondering if the problem is gain, IE is there too little gain to
> >> make it work properly? Do I need to add another tube in a Darlington
> >> type of arrangement to add enough gain to make it work better?
>
> >> I want this type of free running oscillator because it should stay in
> >> tune as I add small amounts of reactive load (the plasma during warm
> >> up etc) - or at least thats what I believe, not being an RF guru I am
> >> not certain of this.
>
> >> If anyone can help me I would appreciate it very much. Having spent
> >> the last 2 weeks trying, and read everything I can and searched the
> >> web extensively, I am at a bit of a loss as to what to do next.
>
> >> I do apologize for probably stupid mistakes / questions (you cant do
> >> that! you need a driver stage...? who knows!) but I am sure someone
> >> must have done this before so I appeal to them to share their
> >> experience!
>
> >> Thanks, Pete
>
> > With only 1KV on the anode you are unlikely to get more than 40W out.
> > You need to be nearer to 2.5KV with a lot of cooling to get anywhere
> > near 400W. Good layout is vital with this tube, they are good to 3GHz
> > and will take off without some sort of stopper in the anode cct.
>
> > Steve H
>
> I was kinda wondering if maybe there wasn't some humongous GHz
> oscillation that's taking up all the power, leaving none for HF. As you
> point out the best way to check this would be with a spectrum analyzer,
> although without it you could maybe slowly increase the plate voltage
> and look for odd jumps in grid current or dives in plate current.
>
> I looked at the data sheet and saw two grids -- is this a 'normal'
> tetrode? It appeared that they were calling out negative voltages on
> grid 2, which confuses me.
>
> --
>
> Tim Wescott
> Wescott Design Serviceshttp://www.wescottdesign.com
>
> Do you need to implement control loops in software?
> "Applied Control Theory for Embedded Systems" gives you just what it says.
> See details athttp://www.wescottdesign.com/actfes/actfes.html

I noticed that you do not mention any sort of shielding or shielded
room for this plasma driver. Given that situation, it would probably
not be in the best interest of this group to help you build a high

power oscillator with limited frequency stability and the possibility of gross amounts of RF escaping into the ether to interfere with other licensed and unlicensed users of radio spectrum, including ham radio operators.

Having said that...there were Radio Diathermy devices made in the 1930s & 1940s era that were simply free running power oscillators, much like what you are talking about. These old-design devices are now illegal to operate in most countries. Similar designs are still used for welding plastic assemblies, but these are required to operate inside a shielded enclosure or in a totally shielded room.

To make something like this you would probably want to start with a conventional VFO (Variable Frequency Oscillator) of the Hartley type, then scale it up to run at the power level you want. However, in order to not run afoul of the law, you might want to build a very stable crystal controlled oscillator and driver section that would then drive your power amplifier. There are specific frequencies that are allocated for use by "incidental radiators" that are part of industrial equipment. Check with your country's radio spectrum regulating authority to find out what the legal operating parameters are for your country & locality.

Arv

–·–

From 1740133961674330753
X-Google-Thread: fc2a5,50249f71b943bddc,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!z28g2000prd.googlegroups.com!not-for-mail
From: Clayton <Evans8119@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 20 Meter SSB Transceiver?
Date: Fri, 27 Jul 2007 01:43:09 -0700
Organization: http://groups.google.com
Lines: 8
Message-ID: <1185525789.042993.122200@z28g2000prd.googlegroups.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 27 Jul 2007 08:43:09 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 5.1; FDM),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-ntc-td07.proxy.aol.com[CFC871A0] (Prism/1.2.1), HTTP/1.1 cache-ntc-ab07.proxy.aol.com[CFC87447] (Traffic-Server/6.1.5 [uScM])

Complaints-To: groups-abuse@google.com
Injection-Info: z28g2000prd.googlegroups.com; posting-host=207.200.116.71;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:575

Hi,
I am looking for some plans for a simple(beginners) 20 Meter SSB Tube
Transceiver and was wondering if somebody had any good plans or web
site they could point me to?

Any help would be greatly Appreciated
Thank You

From 1705016754611901867
X-Google-Thread: fc2a5,50249f71b943bddc
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
news.mixmin.net!aioe.org!not-for-mail
From: Steve H <mycall@tfif.co.ukk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 20 Meter SSB Transceiver?
Date: Fri, 27 Jul 2007 12:17:30 +0100
Organization: Aioe.org NNTP Server
Lines: 13
Message-ID: <f8ck89$r82$1@aioe.org>
References: <1185525789.042993.122200@z28g2000prd.googlegroups.com>
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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
In-Reply-To:
User-Agent: Thunderbird 2.0.0.5 (Windows/20070716)
Xref: g2news2.google.com rec.radio.amateur.homebrew:576

Clayton wrote:
> Hi,
> I am looking for some plans for a simple(beginners) 20 Meter SSB Tube
> Transceiver and was wondering if somebody had any good plans or web
> site they could point me to?
>
> Any help would be greatly Appreciated
> Thank You
>
Have a look at the Heathkit HW32 cct, http://bama.sbc.edu/heath.htm .
should give you a few ideas.

Steve H

```
From -6627586004000179518
X-Google-Thread: fc2a5,ead5966f46518bd8
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!22g2000hsm.googlegroups.com!not-for-mail
From:  peterpion@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube Power Oscillator not working properly
Date: Fri, 27 Jul 2007 05:10:15 -0700
Organization: http://groups.google.com
Lines: 83
Message-ID: <1185538215.220629.183380@22g2000hsm.googlegroups.com>
References: <1185369660.545823.196480@o61g2000hsh.googlegroups.com>
   <f89ndm$nf4$1@aioe.org>
   <1185443575.755143.180450@x40g2000prg.googlegroups.com>
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NNTP-Posting-Date: Fri, 27 Jul 2007 12:10:15 +0000 (UTC)
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Complaints-To: groups-abuse@google.com
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   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:578
```

Anode choke is about 1.3mH, but its not mounted away, its pretty close, about 2 inches, although its in the opposite plane to the tank coil. Is that OK?

As for driving with a fixed generator first, it would be a good thing to try I must admit - but its a big effort. I have no geny that will go to 25MHz and to make one capable of providing the 20 watts or so I would need would put me considerably back - I know shooting straight for the goal in a case like this is harder of course, but seeing as I have the thing running already at low power, I am hoping still...

As for the 'two grids' this seems to be bad documenting (the original russian docs I think). There is definatly one grid - the tube has a single grid between a pair of connections for the heater, one of which is commoned with the cathode, and also a plate connection of course (the heatsink). The docs showing 2 grids confused me but I assume that its just that they couldent be bothered to redraw the picture! As I say, theres simply not enough connections... Unless theres something I dont know about here?

Re is it buzzing at UHF and I simply cant see it I did wonder that
too. But I guessed that there would probably be signs, like more heat
in certain caps, and corona and such. But I cant discount it. I guess
I could test this with a filament lamp indicator or similar.

And as for ARVs concerns, quite right to inquire. The test design is
currently as screened as is practical, mostly boxed in an aluminium
box, but the base is off, which is where the grid circuitry is. I
think that at this level, there is negligable radiation from this side
of the circuit, but at the desired power, maybe there would be some.
However the base will be on as soon as I have it working properly, as
much for the sensitive electronics I have in the workshop as for
reduction of spurious emissions. The several computers I have have
demonstrated their sensitivity to RF at a low power level by all
deciding to wipe their hard disks when I used a new HF striking TIG
welder a while ago - a sad incident as I am sure anyone who has gone
through the same thing will agree.

When in final use, the output will be capacitvley coupled to a quartz
glass tube that passes through the aluminium case. Gasses at low
pressure will pass through this, be excited by the discharge and will
glow, and this glow is viewed through a wire mesh screen for
spectrographic uses.

I may need to add a second outer case depending - I am unsure yet
whether induced currents in the case will reradiate a significant
amount of RF or not, so we will have to wait and see.

As you say, one option would be to fix the frequency and then tune
with a cap - the main reason I dident shoot straight for that is that
in the UK you cant radiate anything at all, so irrespective of my
chosen frequency, I have to screen to a high degree of attenuation.
And now that I am begining to think that I need to include a variable
cap to tune the grid circuit to the tank (this is my latest hypothesis
why I am not getting the power I need), there seems to be no
disadvantage to fixing the frequency. So we will see.

Could anyone comment on that idea by the way? That perhaps, the
capacitance between the grid and plate or cathode is resonating with
the feedback coil, but is tuned to a different frequency to the main
tank, and so limiting my drive? I did wonder about changing the Q of
the tank to make the amp more broadband, which I think would reduce
the impact of such a difference in frequency. Also I could try adding
a tuning cap to the grid coil to tune it to the tank coil maybe.

On Jul 26, 7:58 pm, MarkAren <markare...@yahoo.com> wrote:

> The APC is intended to be resistive (damps Q) at high freq and very
> low reactance at operation freq. I should have mentioned that the 4R7
> should be a carbon resistor (not wire wound).
>
> I hope that the anode isolation inductor is mounted away, so can't

```
> form part of the tuned circuit... What value is the inductor you are
> using ?
>
> Just for getting the anode tuning sorted out, have you considered
> driving the grid with a crystal oscillator source and a suitable
> buffer - this splits the problem in two. A few volts of  drive should
> be a good start, maybe a CMOS oscillator driving some paralleled
> 74AC04 buffers, that will give you 5V P-P drive into a 1:2 torridal
> transformer, 10V P-P may be useful dive ?



From 6926472881241658648
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Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1185525789.042993.122200@z28g2000prd.googlegroups.com>
<hcmja3lfno0hlkhluh0uk7pletrp7v9uub@4ax.com>
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Lines: 31
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
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Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:579


<no.spam@no.uce.bellatlantic.net> wrote in message
news:hcmja3lfno0hlkhluh0uk7pletrp7v9uub@4ax.com...
> On Fri, 27 Jul 2007 01:43:09 -0700, Clayton <Evans8119@aol.com> wrote:
>  > Radio Amateurs Handbook any copy printeted between 1963 to 1970.
> Also back issues of QST for that era.
>
> A tube TRX for SSB will minimally be around 11 tubes or more and not
> simple.  Just finding items like the power transformer will be a
> challenge.
>
> If you can find an old Heathkit HW32 (Monobander SSB series) and
> rebuild it that might work better.
>
```

> Allison
>

This might make a good contest: coming up with an SSB transceiver that
is capable of making real contacts on the air with a minimum number of
tubes. The IF and Xtal filter could be make bilateral for RX and TX, and
maybe using diode mixers (for the PD and TX mixer) might also allow
some bilateral shared stages in those areas as well. Even the TX predriver
could be switched for the RX RFA with some effort. I wonder how few
tubes it would take to make a 5-watt QRP xcvr for 20 meters? The
receiver doesn't have to be overly complex. A basic direct conversion
receiver could serve as the entire IF and detector, with the xtal filter in
front for single signal reception.

Pete k1zjh

From -5985885856316137922
X-Google-Thread: fc2a5,bdce2af7a0b3192b
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roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
<13adcuu1ogqffaa@corp.supernews.com> <46a6b687$0$4737$4c368faf@roadrunner.com>
Subject: Re: microwave oven power supply
Date: Fri, 27 Jul 2007 16:15:25 -0400
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X-MSMail-Priority: Normal
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Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:580

"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
news:46a6b687$0$4737$4c368faf@roadrunner.com...
>
> "msg" <msg@_cybertheque.org_> wrote in message
> news:13adcuu1ogqffaa@corp.supernews.com...
>> Jimmie D wrote:
>>
>>> I picked up a couple of inverter powered microwave ovens at the goodwill
>>> and I was wondering if these power suppies can be used wih tube amps and

>>> such. Also would like schematic data if I could so I could see if I can
>>> modify them for other voltages besides thosed they are designed.
>>
>> I didn't know such contraptions existed ;) Please post brand name, model
>> and nameplate information from them to permit a bit of research. Sounds
>> like a candidate for the quad 807 linear awaiting a power supply...
>>
>> Regards,
>>
>> Michael
>
> Cant get to them right now for more data but one is a Sharp and the other
> a Panasonic.
>

i have found that they are regulated and variable to some degree via pwm Old stle microwaves varied power by varying the duty cycle that the tube was on over a period of seconds. that is to say if a 705 power was set the tube would be on full power for 7 seconds out of 10. the inverter style actually decreases the voltage to the tube. interesting possibilites about for amplifiers

jimmie

From -3227504074821109558
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Date: Fri, 27 Jul 2007 15:40:40 -0700
From: PhattyMo <PhattyMo@nospam.gmail>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 20 Meter SSB Transceiver?
References: <1185525789.042993.122200@z28g2000prd.googlegroups.com>
<hcmja3lfno0hlkhluh0uk7pletrp7v9uub@4ax.com>
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Xref: g2news2.google.com rec.radio.amateur.homebrew:581

no.spam@no.uce.bellatlantic.net wrote:
> On Fri, 27 Jul 2007 01:43:09 -0700, Clayton <Evans8119@aol.com> wrote:
>
>> Hi,
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>>
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> Also back issues of QST for that era.
>
> A tube TRX for SSB will minimally be around 11 tubes or more and not
> simple.  Just finding items like the power transformer will be a
> challenge.

Nah!
http://www.hammondmfg.com/claspg.htm
http://www.edcorusa.com/products/class_x.html
http://www.triodeelectronics.com/

There's lots of transformers around.  :-)

>
> If you can find an old Heathkit HW32 (Monobander SSB series) and
> rebuild it that might work better.
>
> Allison
>


From 4269107473947325568
X-Google-Thread: fc2a5,50249f71b943bddc
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!pd7cy1no!
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User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 20 Meter SSB Transceiver?
References: <1185525789.042993.122200@z28g2000prd.googlegroups.com>
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Organization: Shaw Residential Internet
Xref: g2news2.google.com rec.radio.amateur.homebrew:582

Clayton wrote:
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> Transceiver and was wondering if somebody had any good plans or web
> site they could point me to?
>
> Any help would be greatly Appreciated
> Thank You
>
Why not re-work a 10 Meter(CB) SSB), Re-Tune the Rx. Front-end for 20
Meters, Use the 10 meter Tx as an Exciter to drive a 20 Meter Final.

This way 85% of the design work has already been done and tested !

Are you out to prove a point, or want a working rig ?? Tubes have been
obsolete for fifty years !! Why else would you attempt to build a
Sideband rig using parts that have been out of production for several
generations. If you are going to wind coils and Rf transformers why not
wind them for transistor stages. Transistor Rigs (CB) are CHEAP. Tube
type rigs have long been relegated to the Scrap Heap.

Yukio YANO VE5YS


From 5092852263939643063
X-Google-Thread: fc2a5,50249f71b943bddc
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-
media.com!hw-filter.lga!newsfe14.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1185525789.042993.122200@z28g2000prd.googlegroups.com>
<4Wvqi.11098$rX4.6907@pd7urf2no>
Subject: Re: 20 Meter SSB Transceiver?
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
```

```
Message-ID: <6iwqi.66$g86.51@newsfe14.lga>
Date: Fri, 27 Jul 2007 20:42:41 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe14.lga 1185583362 68.0.230.122 (Fri, 27 Jul 2007 17:42:42 MST)
NNTP-Posting-Date: Fri, 27 Jul 2007 17:42:42 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:583


"Yukio YANO" <yano@shaw.ca> wrote in message
news:4Wvqi.11098$rX4.6907@pd7urf2no...
> Clayton wrote:
>>  > Are you out to prove a point, or want a working rig ?? Tubes have been
> obsolete for fifty years !! Why else would you attempt to build a Sideband
> rig using parts that have been out of production for several generations.
> If you are going to wind coils and Rf transformers why not wind them for
> transistor stages. Transistor Rigs (CB) are CHEAP. Tube type rigs have
> long been relegated to the Scrap Heap.
>
> Yukio YANO VE5YS


What's wrong with building a tube radio??  Tubes are actually more
available now then they were twenty years ago.  There are thousands
of tube rigs still in daily use.  There are several companies that
deal exclusively in vintage electronics.  It's a hobby, and if someone
enjoys vintage technologies, so be it. I enjoy the best of both worlds.

BTW, have you priced a Hallicrafter SX-88 or 115 lately?  A decent
Collins R390??  Heck, many transistors are becoming just as obsolete.
State of the art is DSP and software defined radios these days.

Pete k1zjh




From 1989676888098904203
X-Google-Thread: fc2a5,50249f71b943bddc
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out04b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bigfeed!bignumber.bellsouth.net!news.bellsouth.net!
bignews8.bellsouth.net.POSTED!0ed2130f!not-for-mail
From: "Mike Lucas" <w5chr@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1185525789.042993.122200@z28g2000prd.googlegroups.com>
Subject: Re: 20 Meter SSB Transceiver?
Lines: 30
X-Priority: 3
```

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <eNwqi.3960$RQ5.1862@bignews8.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mabncmnekmdohbabdbdpiflmbcekedmfhojhikkbagflhcbomhndkafmilaokljclponlddmgkgdimolpg
omlodhjagcdjnnfadlclkldejbcmlokijhhagfkjbgilpaommgddggfoljkjghajkghejbbcdhfhle
NNTP-Posting-Date: Fri, 27 Jul 2007 21:15:54 EDT
Organization: BellSouth Internet Group
Date: Fri, 27 Jul 2007 20:16:26 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:584

"Clayton" wrote
> I am looking for some plans for a simple(beginners) 20 Meter SSB Tube
> Transceiver and was wondering if somebody had any good plans or web
> site they could point me to?
>

The ARRL published a series of small books on SSB(receivers, transmitters,
xcvrs, amps, and theory) between the 50's and the 70's. I have two of the
series that I use as reference material. One of the articles was a 3-tube
transmitter for 20M. There are several other interesting projects that might fit your
requirements.

One additional pointer... the Bill Orr Radio Handbook (exact edition unknown,
but the cover was bright red!) had a monoband transceiver project that was a very
neat, simple, and well designed transceiver. It had many features in common with
the Swan transceivers of the 60's and 70's....

Wish I could be of more exact help, but I've passed on most of the older books
to make room for antenna tubing in the shop.

Good luck with your projects.

Mike W5CHR
Memphis

From 9128148050587421451
X-Google-Thread: fc2a5,8540af2abbdb20e2,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j4g2000prf.googlegroups.com!not-for-mail

From: soleilmavis <soleilmavis@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Mind Control and Directed Energy Weapons
Date: Fri, 27 Jul 2007 19:27:53 -0700
Organization: http://groups.google.com
Lines: 37
Message-ID: <1185589673.114021.48170@j4g2000prf.googlegroups.com>
NNTP-Posting-Host: 122.5.12.210
Mime-Version: 1.0
Content-Type: text/plain; charset="gb2312"
X-Trace: posting.google.com 1185589673 31116 127.0.0.1 (28 Jul 2007 02:27:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 28 Jul 2007 02:27:53 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j4g2000prf.googlegroups.com; posting-host=122.5.12.210;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:585

Mind Control and Directed Energy Weapons

Do you know Mind Control Weapons and Brain Washing (such as CIA Mind Control Project : MKULTRA) ? Do you know voice can be transmitted to human's head from long distance(V2K)? (In 2002, the Air Force Research Laboratory patented precisely such a technology: using microwaves to send words into someone's head.)Do you know Directed Energy Weapons(such as: Electromagnetic weapons) and Non-lethal Weapons? Do you know that people's thoughts can be read now? Do you know Nano technology weapons (such as British MI5 Nano technology spy weapons which can control little spy mice from long distance)?

Such kinds of weapons have already been used covertly to torture and harass innocent, legal, unarmed and defenseless civilians for many years all over the world.

There are more than 1500 people who are suffering terribly from mind control and electromagnetic weapons torturing and harassment. Some victims were only 21-22 years old when the first time they were seriously tortured and harassed.

Have you ever imagined that there even was not one happy and peace day in the life, but only suffering for 5,10 or 20 years? Yes! Some victims died, but at the last minutes in their lives, the only thing belongs to them was still suffering.

Please come to help us by signing your support to stop these kinds of weapons torturing and harassing lawful citizens. Our goals:

(1) We wish a resolution from United Nations to stop Mind Control and Directed Energy weapons torturing and harassing. (2) We wish all government cooperate together to sentence those torturers according to

law.

More Information, please come to http://soleilmavis.googlepages.com
Blog: http://soleilmavis.spaces.live.com

```
From 8359020433981557265
X-Google-Thread: fc2a5,8540af2abbdb20e2
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
Date: Fri, 27 Jul 2007 22:39:34 -0400
From: "Paul E. Cater" <paulcater@roadrunner.com>
Organization: Cater Enterprise
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Mind Control and Directed Energy Weapons
References: <1185589673.114021.48170@j4g2000prf.googlegroups.com>
In-Reply-To: <1185589673.114021.48170@j4g2000prf.googlegroups.com>
Content-Type: text/plain; charset=GB2312
Content-Transfer-Encoding: 7bit
Lines: 39
Message-ID: <46aaac0a$0$8045$4c368faf@roadrunner.com>
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:586
```

soleilmavis wrote:
> Mind Control and Directed Energy Weapons
>
> Do you know Mind Control Weapons and Brain Washing (such as CIA Mind
> Control Project : MKULTRA) ? Do you know voice can be transmitted to
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```
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>
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> Directed Energy weapons torturing and harassing.    (2) We wish all
> government cooperate together to sentence those torturers according to
> law.
>
> More Information, please come to http://soleilmavis.googlepages.com
> Blog:  http://soleilmavis.spaces.live.com
>
What a frecking moron!!!!!!!!!!!!! Post your BS someplace else.....


From 5182589652954457885
X-Google-Thread: fc2a5,8540af2abbdb20e2
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
Date: Fri, 27 Jul 2007 22:49:58 -0400
From: "Paul E. Cater" <paulcater@roadrunner.com>
Organization: Cater Enterprise
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Mind Control and Directed Energy Weapons
References: <1185589673.114021.48170@j4g2000prf.googlegroups.com>
<46aaac0a$0$8045$4c368faf@roadrunner.com>
In-Reply-To: <46aaac0a$0$8045$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=GB2312
Content-Transfer-Encoding: 7bit
Lines: 41
Message-ID: <46aaae79$0$31281$4c368faf@roadrunner.com>
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:587

Paul E. Cater wrote:
> soleilmavis wrote:
>> Mind Control and Directed Energy Weapons
>>
>> Do you know Mind Control Weapons and Brain Washing (such as CIA Mind
>> Control Project : MKULTRA) ? Do you know voice can be transmitted to
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>>
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>>
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>>
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>>
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>> government cooperate together to sentence those torturers according to
>> law.
>>
>> More Information, please come to http://soleilmavis.googlepages.com
>> Blog:  http://soleilmavis.spaces.live.com
>>
> What a frecking moron!!!!!!!!!!!!! Post your BS someplace else.....
Guess what?  I just shut you out of your servers ----Have a great weekend...


From 8404732512108804587
X-Google-Thread: f64c6,b64958ea9777e63a,start
X-Google-Thread: fc2a5,b64958ea9777e63a,start
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.germany.com!aioe.org!not-for-mail
From: "G \"Guglielmo\" Evans G4SDW" <no.spam@thank.you>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: USB (the other one!) A2D converters?
Date: Sat, 28 Jul 2007 03:59:33 +0100
Organization: Aioe.org NNTP Server
Lines: 7
Message-ID: <f8eben$55g$1@aioe.org>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com uk.radio.amateur:9514 rec.radio.amateur.homebrew:588
```

Does anyone have experience and/or recommendations
for analogue and digital I/O interfaces based on the Universal
Serial Bus (USB)?

Just an idea for the genesis of a homebrew spectrum analyser.

```
From 8479800993805936642
X-Google-Thread: fc2a5,50249f71b943bddc
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!news.kjsl.com!
ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 20 Meter SSB Transceiver?
Date: 28 Jul 2007 03:25:41 GMT
Organization: The National Capital FreeNet
Lines: 54
Message-ID: <f8ecvl$6n9$1@theodyn.ncf.ca>
References: <1185525789.042993.122200@z28g2000prd.googlegroups.com>
<hcmja3lfno0hlkhluh0uk7pletrp7v9uub@4ax.com> <Z6sqi.13863$rH6.7872@newsfe22.lga>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1185593141 6889 134.117.136.48 (28 Jul 2007 03:25:41 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 28 Jul 2007 03:25:41 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:589
```

"Uncle Peter" (radioconnection@cox.net) writes:
> <no.spam@no.uce.bellatlantic.net> wrote in message
> news:hcmja3lfno0hlkhluh0uk7pletrp7v9uub@4ax.com...
>> On Fri, 27 Jul 2007 01:43:09 -0700, Clayton <Evans8119@aol.com> wrote:
>> > Radio Amateurs Handbook any copy printeted between 1963 to 1970.
>> Also back issues of QST for that era.
>>
>> A tube TRX for SSB will minimally be around 11 tubes or more and not
>> simple. Just finding items like the power transformer will be a
>> challenge.
>>
>> If you can find an old Heathkit HW32 (Monobander SSB series) and
>> rebuild it that might work better.
>>
>> Allison
>>
>
> This might make a good contest: coming up with an SSB transceiver that
> is capable of making real contacts on the air with a minimum number of
> tubes. The IF and Xtal filter could be make bilateral for RX and TX, and
> maybe using diode mixers (for the PD and TX mixer) might also allow

> some bilateral shared stages in those areas as well. Even the TX predriver could be switched for the RX RFA with some effort. I wonder how few tubes it would take to make a 5-watt QRP xcvr for 20 meters? The receiver doesn't have to be overly complex. A basic direct conversion receiver could serve as the entire IF and detector, with the xtal filter in front for single signal reception.
>
> Pete k1zjh

Somebody already suggested the "Imp" that was in one of the later ARRL SSB manuals (and the same author came up with a solid state version later), and presumably had appeared in QST before that.

A different way of dual use, without the bilateral stages, is to have a balanced mixer, the filter, IF strip, and then a balanced mixer. By using broadband mixers, the first stage is either the receiver mixer, or the balanced modulator for the transmitter. Then the balanced mixer at the output of the IF stage is the product detector on receive, and the conversion mixer on the transmit. The signals all go down the strip in the same direction, and relatively little switching is needed.

One of those ARRL SSB manuals had such a transceiver, nice and small, albeit with transistors.

Though, I seem to recall there was a transceiver made out of subminiature tubes in the late fifties or early sixties. Unless I'm confusing it with something else, it was in the Bill Orr Handbook.

Michael VE2BVW

From 6822541697624298826
X-Google-Thread: fc2a5,50249f71b943bddc
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!news.kjsl.com!news.xcski.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 20 Meter SSB Transceiver?
Date: 28 Jul 2007 03:35:55 GMT
Organization: The National Capital FreeNet
Lines: 59
Message-ID: <f8edir$715$1@theodyn.ncf.ca>
References: <1185525789.042993.122200@z28g2000prd.googlegroups.com>
<4Wvqi.11098$rX4.6907@pd7urf2no>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1185593755 7205 134.117.136.48 (28 Jul 2007 03:35:55 GMT)

X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 28 Jul 2007 03:35:55 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:590

Yukio YANO (yano@shaw.ca) writes:
> Clayton wrote:
>> Hi,
>> I am looking for some plans for a simple(beginners) 20 Meter SSB Tube
>> Transceiver and was wondering if somebody had any good plans or web
>> site they could point me to?
>>
>> Any help would be greatly Appreciated
>> Thank You
>>
> Why not re-work a 10 Meter(CB) SSB), Re-Tune the Rx. Front-end for 20
> Meters, Use the 10 meter Tx as an Exciter to drive a 20 Meter Final.
>
> This way 85% of the design work has already been done and tested !
>
> Are you out to prove a point, or want a working rig ?? Tubes have been
> obsolete for fifty years !! Why else would you attempt to build a
> Sideband rig using parts that have been out of production for several
> generations. If you are going to wind coils and Rf transformers why not
> wind them for transistor stages. Transistor Rigs (CB) are CHEAP. Tube
> type rigs have long been relegated to the Scrap Heap.
>
THat's a bit of a stretch, fifty years ago transistors were hardly capable
of replacing tubes. Yes, there was solid state equipment coming off
the line by 1957, but much of it wasn't particularly great, designers
not having figured out how to make good transistor equipment.

Even forty years ago, tubes were still going strong.

Now if you'd said tubes were obsolete thirty years ago, that's far
more likely to get agreement. By then solid state had risen
sufficiently that no new tube based equipment was being introduced
(well, the exception being the output stage or stages).

There is all kinds of old parts lying around, waiting for that
day when someone would finally build that "dream rig". Of course
nodoby is going to be able to buy tube type components at their
local parts emporium, even if the local parts emporium still
exists), but then even forty or fifty years ago those who
had to buy off the shelf just like in the magazine article
often suffered, since they had to rely on what the magazine
article said and had to rely on what they could get at the
store.

But anyone who shows a certain level of capability can scrounge
parts and make do with what they can find, so it's not particularly
that big a deal that someone wants to build with tubes. IN a lot
of cases, the parts are just waiting to be used, since others
have declared them "obsolete".

It's kind of interesting that you dismiss building with tubes,
but then turn around and suggest the solution is to modify a
CB rig. Not that there's anything wrong with that, but someone
wouldn't be building in the first place if the "wanted something
already tested".

  Michael VE2BVW

From 9172153598925852885
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!ecngs!feeder2.ecngs.de!feeder.erje.net!aioe.org!not-for-mail
From: "John" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: USB (the other one!) A2D converters?
Date: Sat, 28 Jul 2007 05:16:50 -0000
Organization: Aioe.org NNTP Server
Lines: 19
Message-ID: <f8ejh2$d77$1@aioe.org>
References: <f8eben$55g$1@aioe.org>
NNTP-Posting-Host: 6/LVaZBXvIJkbsYKqj6J+A.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com uk.radio.amateur:9516 rec.radio.amateur.homebrew:591

> Does anyone have experience and/or recommendations
> for analogue and digital I/O interfaces based on the Universal
> Serial Bus (USB)?
>
> Just an idea for the genesis of a homebrew spectrum analyser.
>

I can't give any specific advice about the USB interface, but I recall that
there was a PC based spectrum analyser published in QEX within the last
couple of years.

If you don't already, I would recommend subscribing to QEX, it's published
quarterly by the ARRL. It contains a lot of leading edge technology. A
Google search will give you more details.

```
From -5529543908110105459
X-Google-Thread: fc2a5,ead5966f46518bd8
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i13g2000prf.googlegroups.com!not-for-mail
From:  MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube Power Oscillator not working properly
Date: Sat, 28 Jul 2007 02:16:35 -0700
Organization: http://groups.google.com
Lines: 123
Message-ID: <1185614195.538584.59830@i13g2000prf.googlegroups.com>
References: <1185369660.545823.196480@o61g2000hsh.googlegroups.com>
   <f89ndm$nf4$1@aioe.org>
   <1185443575.755143.180450@x40g2000prg.googlegroups.com>
   <1185455748.492992.219590@q75g2000hsh.googlegroups.com>
   <1185476334.293136.303950@q75g2000hsh.googlegroups.com>
   <1185538215.220629.183380@22g2000hsm.googlegroups.com>
NNTP-Posting-Host: 222.155.162.117
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1185614196 2494 127.0.0.1 (28 Jul 2007 09:16:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 28 Jul 2007 09:16:36 +0000 (UTC)
In-Reply-To: <1185538215.220629.183380@22g2000hsm.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i13g2000prf.googlegroups.com; posting-host=222.155.162.117;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:592
```

As long as the mH choke is mounted at 90 degrees from either of the other inductors, you should be OK.

I am trying to think of ways to move you away from you current stalemate, hence the suggestion about using an Xtal osc for drive. Do you have access to a CB rig, ham rig, something that you can derive a few watts drive from, just to see if the unit is tuning as expected ?

I am quite intrigued about your 12V supply and diode to the Grid. It looks like the 33k should normally be at 0v and any -ve RF excursions are clamped at -12v, is that correct/what you intend ? Might be worth sticking a 100uA meter between the 33k and ground to allow you to check for grid current.

I do like the idea from one of the other contributors to check for jumps and hysteresis as you are cranking up Va while monitoring Ia. The two should move smoothly together, jumps are a possible indicator of instability.

I think 13.56Mhz may be the ISM band of choice if it is available in the UK, why did you choose 25Mhz initially ?

Any chance of pictures of the current hook up ?

Have you considered grounded grid ? the cathode coupling loop might only need one turn.

Is this a college/uni project ?

Regards,

Mark

On Jul 28, 12:10 am, peterp...@yahoo.com wrote:

> Anode choke is about 1.3mH, but its not mounted away, its pretty close, about 2 inches, although its in the opposite plane to the tank coil. Is that OK?
>
> As for driving with a fixed generator first, it would be a good thing to try I must admit - but its a big effort. I have no geny that will go to 25MHz and to make one capable of providing the 20 watts or so I would need would put me considerably back - I know shooting straight for the goal in a case like this is harder of course, but seeing as I have the thing running already at low power, I am hoping still...
>
> As for the 'two grids' this seems to be bad documenting (the original russian docs I think). There is definatly one grid - the tube has a single grid between a pair of connections for the heater, one of which is commoned with the cathode, and also a plate connection of course (the heatsink). The docs showing 2 grids confused me but I assume that its just that they couldent be bothered to redraw the picture! As I say, theres simply not enough connections... Unless theres something I dont know about here?
>
> Re is it buzzing at UHF and I simply cant see it I did wonder that too. But I guessed that there would probably be signs, like more heat in certain caps, and corona and such. But I cant discount it. I guess I could test this with a filament lamp indicator or similar.
>
> And as for ARVs concerns, quite right to inquire. The test design is currently as screened as is practical, mostly boxed in an aluminium box, but the base is off, which is where the grid circuitry is. I think that at this level, there is negligable radiation from this side of the circuit, but at the desired power, maybe there would be some. However the base will be on as soon as I have it working properly, as much for the sensitive electronics I have in the workshop as for reduction of spurious emissions. The several computers I have have demonstrated their sensitivity to RF at a low power level by all

> deciding to wipe their hard disks when I used a new HF striking TIG
> welder a while ago - a sad incident as I am sure anyone who has gone
> through the same thing will agree.
>
> When in final use, the output will be capacitvley coupled to a quartz
> glass tube that passes through the aluminium case. Gasses at low
> pressure will pass through this, be excited by the discharge and will
> glow, and this glow is viewed through a wire mesh screen for
> spectrographic uses.
>
> I may need to add a second outer case depending - I am unsure yet
> whether induced currents in the case will reradiate a significant
> amount of RF or not, so we will have to wait and see.
>
> As you say, one option would be to fix the frequency and then tune
> with a cap - the main reason I dident shoot straight for that is that
> in the UK you cant radiate anything at all, so irrespective of my
> chosen frequency, I have to screen to a high degree of attenuation.
> And now that I am begining to think that I need to include a variable
> cap to tune the grid circuit to the tank (this is my latest hypothesis
> why I am not getting the power I need), there seems to be no
> disadvantage to fixing the frequency. So we will see.
>
> Could anyone comment on that idea by the way? That perhaps, the
> capacitance between the grid and plate or cathode is resonating with
> the feedback coil, but is tuned to a different frequency to the main
> tank, and so limiting my drive? I did wonder about changing the Q of
> the tank to make the amp more broadband, which I think would reduce
> the impact of such a difference in frequency. Also I could try adding
> a tuning cap to the grid coil to tune it to the tank coil maybe.
>
> On Jul 26, 7:58 pm, MarkAren <markare...@yahoo.com> wrote:
>
>
>
> > The APC is intended to be resistive (damps Q) at high freq and very
> > low reactance at operation freq. I should have mentioned that the 4R7
As long as the

> > should be a carbon resistor (not wire wound).
>
> > I hope that the anode isolation inductor is mounted away, so can't
> > form part of the tuned circuit... What value is the inductor you are
> > using ?
>
> > Just for getting the anode tuning sorted out, have you considered
> > driving the grid with a crystal oscillator source and a suitable
> > buffer - this splits the problem in two. A few volts of drive should
> > be a good start, maybe a CMOS oscillator driving some paralleled
> > 74AC04 buffers, that will give you 5V P-P drive into a 1:2 torridal
> > transformer, 10V P-P may be useful dive ?- Hide quoted text -
>
> - Show quoted text -

```
From 5683732788791060617
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k79g2000hse.googlegroups.com!not-for-
mail
From:  bigorangebus <bigorangebus@yahoo.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: USB (the other one!) A2D converters?
Date: Sat, 28 Jul 2007 03:17:03 -0700
Organization: http://groups.google.com
Lines: 34
Message-ID: <1185617823.742752.24670@k79g2000hse.googlegroups.com>
References: <f8eben$55g$1@aioe.org>
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Mime-Version: 1.0
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 28 Jul 2007 10:17:03 +0000 (UTC)
In-Reply-To: <f8eben$55g$1@aioe.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.8.1.5)
Gecko/20070713 Firefox/2.0.0.5,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k79g2000hse.googlegroups.com; posting-host=88.109.33.218;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com uk.radio.amateur:9542 rec.radio.amateur.homebrew:593
```

On Jul 28, 3:59 am, "G \"Guglielmo\" Evans G4SDW" <no.s...@thank.you>
wrote:

> Does anyone have experience and/or recommendations
> for analogue and digital I/O interfaces based on the Universal
> Serial Bus (USB)?
>
> Just an idea for the genesis of a homebrew spectrum analyser.

Ive done a little with USB, so I'll add a little background if not provide complete answers.

The first hurdle is the interfacing. You need a board with a driver thats easy to interface with your host PC software program.
Ive used a board from www.mirrorbow.com for general control...you can access it every 1mS and get 12 x 12bit ADC samples for each access, or you can alter 8 bit digital ports etc. However, the speed is limited to how fast the operating system can access the board, which is 1mS.
This board pretends to be a com port so it makes programming easier without needing to include libraries and dlls etc.

Theres a board from National Instruments which I think is faster,
though only around 2.8Msamples/sec http://sine.ni.com/nips/cds/view/p/lang/en/nid/202596
And of course there are some dedicated USB spectrum analyser
available, but thats not the same as doing a home version.
So, you could just get a DAC board and go for it, though the speed you
can make a spectrum analyser is limited.

Of course you could use the superhet principle with a narrow band
filter and a programmable LO. You could then use a simple IO board
like the one from Mirrorbow to setup the LO, then use a peak detector
and the boards AD to give an indication of level. You'd then have a
digitally controlled analogue spectrum analyser, and you woudlnt need
the large sample rate.

From 5880736133506710039
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!news.netfinity.fr!aioe.org!not-for-mail
From: "G \"Guglielmo\" Evans G4SDW" <no.spam@thank.you>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: USB (the other one!) A2D converters?
Date: Sat, 28 Jul 2007 12:12:30 +0100
Organization: Aioe.org NNTP Server
Lines: 12
Message-ID: <f8f8b0$fm2$1@aioe.org>
References: <f8eben$55g$1@aioe.org>
<1185617823.742752.24670@k79g2000hse.googlegroups.com>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com uk.radio.amateur:9544 rec.radio.amateur.homebrew:594

mirrorbow is not a bona-fide operation and does not advertise its
address, directors and other information as now required
by UK law.

"bigorangebus" <bigorangebus@yahoo.com> wrote in message
news:1185617823.742752.24670@k79g2000hse.googlegroups.com...

>
> The first hurdle is the interfacing. You need a board with a driver
> thats easy to interface with your host PC software program.

> Ive used a board from www.mirrorbow.com for general control.

From 4260800817247216046
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news2.google.com!news.glorb.com!aioe.org!not-for-mail
From: Clueless Beanie <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: USB (the other one!) A2D converters?
Followup-To: uk.radio.amateur
Date: Sat, 28 Jul 2007 07:40:49 -0400
Organization: Clueless Beanie
Lines: 12
Message-ID: <f8f9p2$k5u$1@aioe.org>
References: <f8eben$55g$1@aioe.org>
<1185617823.742752.24670@k79g2000hse.googlegroups.com> <f8f8b0$fm2$1@aioe.org>
Reply-To: me@privacy.net
NNTP-Posting-Host: xkmGHDLEhEmv7ZWTOPod3g.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=utf-8
Content-Transfer-Encoding: 8Bit
X-Complaints-To: abuse@aioe.org
User-Agent: KNode/0.10.4
Xref: g2news2.google.com uk.radio.amateur:9546 rec.radio.amateur.homebrew:595

The jobless bar steward wrote:

> mirrorbow is not a bona-fide operation and does not advertise its
> address, directors and other information as now required
> by UK law.

Well, why don't you e-mail them and tell them what you read in your £350 law book. There are two e-mail addresses on their website. I'm sure they'd be delighted to hear from you as much as we are.

Better still, GET A JOB.

From 5100822659809761363
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe02.lga.POSTED!53ab2750!not-for-mail

From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <f8eben$55g$1@aioe.org> <f8ejh2$d77$1@aioe.org>
Subject: Re: USB (the other one!) A2D converters?
Lines: 46
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <6ZHqi.4$XZ6.3@newsfe02.lga>
X-Trace:
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NNTP-Posting-Date: Sat, 28 Jul 2007 06:59:30 MST
Date: Sat, 28 Jul 2007 09:59:22 -0400
Xref: g2news2.google.com uk.radio.amateur:9554 rec.radio.amateur.homebrew:598

"John" <me@privacy.net> wrote in message news:f8ejh2$d77$1@aioe.org...
>
>> Does anyone have experience and/or recommendations
>> for analogue and digital I/O interfaces based on the Universal
>> Serial Bus (USB)?
>>
> I can't give any specific advice about the USB interface, but I recall
> that
> there was a PC based spectrum analyser published in QEX within the last
> couple of years.

The state of USB has improved pretty dramatically in the past couple of years. The QEX article was a groundbreaker at the time, but the technology has moved on.

Presumably you are aware that a USB interface implies computation on both sides. The relatively recent USB PICs (18F2550, 4550, etc.) incorporate everything needed for the USB interface except the connector. Only a couple of years ago a USB controller chip was $26 and it needed a host of additional parts to actually implement the interface. A smaller USB PIC costs less than $5 and includes *everything*.

Go to http://ww1.microchip.com/downloads/en/DeviceDoc/39632D.pdf and take a look at the capabilities. To see it in an actual circuit, try
http://www.microchip.com/stellent/idcplg?
IdcService=SS_GET_PAGE&nodeId=1406&dDocName=en529760
and download the users guide. The 2550 is the little TQFP to the right of the board picture, although it is available in a variety of packages, some more hobbyist-friendly then the tiny one on the board. The only additional part is an inductor to filter the USB voltage when it is used to power the target circuit.

This series of parts also includes A/D channels, tho they might not be the speed and resolution you want. The particular board is a nice one for experimenting because it includes one of the fast 16-bit parts that are easily programmable in a high level language, along with the USB interface.

..

From 4546651704697760960
X-Google-Thread: fc2a5,50249f71b943bddc
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 20 Meter SSB Transceiver?
Date: 28 Jul 2007 14:36:34 GMT
Organization: The National Capital FreeNet
Lines: 42
Message-ID: <f8fk9i$qi8$1@theodyn.ncf.ca>
References: <1185525789.042993.122200@z28g2000prd.googlegroups.com>
<eNwqi.3960$RQ5.1862@bignews8.bellsouth.net>
<gdima3p5ef2dehv7r5ek9pv01fr5ivchc0@4ax.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1185633394 27208 134.117.136.48 (28 Jul 2007 14:36:34 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 28 Jul 2007 14:36:34 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:601

(no.spam@no.uce.bellatlantic.net) writes:

> One of the common things back then was seperate TX and RX.
> Though some would build a single band Trasnciever and use it
> with a Transveter to cover other bands.
>

Yes, it was more common to see separates. ON the other hand, when there were actual transceivers described, they did tend to use common circuitry between transmit and receive. Solid state, because of their size and low cost, has made it pretty easy to build complete separates (minus the oscillators) in one box, which of course does have the advantage of making switching pretty easy.

One advantage of separates is that it looks less daunting. Build the receiver, and you have something finished, and even have it for testing the transmitter. Then build the transmitter. The overall product may require more work, but at least it's broken down into more manageable pieces.

> Othere QST articles QST April 1961, A 75M SSB tranceiver.
>
>
> I'd bet back issue reprints of QST articles are available from ARRL..
>

Traditionally, and I'm not sure why it would have changed, you could get back issues for a reasonable fee, and if they didn't have any of that issue, the specific article for a reasonable fee.

Of course, one can also get back issues on CDROM, and for someone interested in the tube era, it might make sense to get a set from the era when tubes were still pretty common in QST, but late enough that things had developed well.

Old Handbooks of course not only have the construction articles, but the peripheral information that might be needed by someone starting to build tube equipment at this point. That 75metre SSB transceiver that you mention, it showed up in a number of Handbooks in the early seventies, and yes, it sure looked neat for an 11 year with his first Handbook in 1971.

   Michael VE2BVW

From 1059154383691778376
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!news.newsland.it!aioe.org!not-for-mail
From: "John" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: USB (the other one!) A2D converters?
Date: Sat, 28 Jul 2007 15:36:17 +0100
Organization: Aioe.org NNTP Server
Lines: 36
Message-ID: <f8fk9f$ljj$1@aioe.org>
References: <f8eben$55g$1@aioe.org> <f8ejh2$d77$1@aioe.org> <6ZHqi.4$XZ6.3@newsfe02.lga>
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X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com uk.radio.amateur:9556 rec.radio.amateur.homebrew:600

"xpyttl" wrote
>
> Presumably you are aware that a USB interface implies computation on both
> sides. The relatively recent USB PICs (18F2550, 4550, etc.) incorporate
> everything needed for the USB interface except the connector. Only a
> couple
> of years ago a USB controller chip was $26 and it needed a host of
> additional parts to actually implement the interface. A smaller USB PIC
> costs less than $5 and includes *everything*.
>
> Go to http://ww1.microchip.com/downloads/en/DeviceDoc/39632D.pdf and take
> a
> look at the capabilities. To see it in an actual circuit, try
> http://www.microchip.com/stellent/idcplg?
IdcService=SS_GET_PAGE&nodeId=1406&dDocName=en529760
> and download the users guide. The 2550 is the little TQFP to the right of
> the board picture, although it is available in a variety of packages, some
> more hobbyist-friendly then the tiny one on the board. The only
> additional part is an inductor to filter the USB voltage when it is used
> to power the target circuit.
>
> This series of parts also includes A/D channels, tho they might not be the
> speed and resolution you want. The particular board is a nice one for
> experimenting because it includes one of the fast 16-bit parts that are
> easily programmable in a high level language, along with the USB
> interface.
>

Many thnaks for the heads-up on the PICs. I've always tried to avoid USB
interfaces for control applications, but I have a project on the horizon
where I will almost certainly go down that route - simply because laptops no
longer have RS-232 ports..

From -1946822271720751803
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
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69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe05.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <f8eben$55g$1@aioe.org> <f8ejh2$d77$1@aioe.org>
<6ZHqi.4$XZ6.3@newsfe02.lga> <f8fk9f$ljj$1@aioe.org>
Subject: Re: USB (the other one!) A2D converters?

Lines: 18
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
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NNTP-Posting-Date: Sat, 28 Jul 2007 08:24:05 MST
Date: Sat, 28 Jul 2007 11:23:52 -0400
Xref: g2news2.google.com uk.radio.amateur:9558 rec.radio.amateur.homebrew:602

"John" <me@privacy.net> wrote in message news:f8fk9f$ljj$1@aioe.org...

> Many thnaks for the heads-up on the PICs. I've always tried to avoid USB
> interfaces for control applications, but I have a project on the horizon
> where I will almost certainly go down that route - simply because laptops
> no longer have RS-232 ports..

If this is a one-off project, you might even consider that particular board, depending on your requirements. The USB is used as a peripheral to the 28 pin part, so that from the bigger part you can simply do a printf() to communicate to your PC over serial. It relies on a Microcoft provided serial emulation driver. If your requirements are more demaiding, then you will need to really hit the books. Doing the USB software interface isn't real trivial.

..

From -3262867343515770273
X-Google-Thread: f64c6,b64958ea9777e63a
X-Google-Thread: fc2a5,b64958ea9777e63a
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe05.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <f8eben$55g$1@aioe.org> <f8ejh2$d77$1@aioe.org>
<6ZHqi.4$XZ6.3@newsfe02.lga> <f8fk9f$ljj$1@aioe.org> <pcJqi.7$zJ5.5@newsfe05.lga>
Subject: Re: USB (the other one!) A2D converters?
Lines: 42
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138

X-RFC2646: Format=Flowed; Response
Message-ID: <gIJqi.8$zJ5.2@newsfe05.lga>
X-Trace:
hikehalegljkcnnfbaignffdjoaiejclfcdlnmjogbcggkjonicfceledepkikoolhlefpnpglhfdcnhno
eeigbfbbdonpjidibfihdpkhgephpaghpjdpiebojkgjgebpincjkllopekodc
NNTP-Posting-Date: Sat, 28 Jul 2007 08:58:04 MST
Date: Sat, 28 Jul 2007 11:57:45 -0400
Xref: g2news2.google.com uk.radio.amateur:9559 rec.radio.amateur.homebrew:603

"xpyttl" <xpyttl_NOSPAM@earthling.net> wrote in message
news:pcJqi.7$zJ5.5@newsfe05.lga...
> pin part, so that from the bigger part you can simply do a printf() to
> communicate to your PC over serial. It relies on a Microcoft provided
> serial emulation driver. If your requirements are more demaiding, then
> you will need to really hit the books. Doing the USB software interface
> isn't real trivial.

mmmm ... I can see I should have been more explicit there, and maybe caught a couple of typos.

There are a number of USB classes with different capabilities. There is a serial emulation class, which Microsoft provides a driver for. It appears on Windows as a new serial port, and applications access it as if it were a serial port.

All USB devices must offer up a manufacturer code and a device code whenever they are first connected. The OS reads a .inf file to connect the particular codes to a driver. MicroCHIP provides an .inf file with the board that points to a MicroSOFT driver which does serial emulation.

When the 16-bit part wiggles it's USART, the PIC18F2550 catches that and sends it out over USB to the PC in serial emulation mode. The application on the 16 bit part must set up the baud rate for the USART, but beyond that, normal C I/O can be used, although it is pretty fat for many applications.

The documentation for the board says in comes with a dsPIC33FJ12GP202 but mine came with a PIC24FJ64GA002 -- more memory but no DSP engine. The board has jumpers to accept any 28 pin, 16 bit part. I've been doing most of my experimentation with a dsPIC30F012. The 30F parts are 5 volts, the others 3.3, and the 30Fs have a slightly different pinout. Jumpers deal with both, as well as deciding whether the board wants to be powered from the USB or a separate supply.

For a lower cost implementation, the 18F2550 and its cousins have plenty of gas to do more work, and Microchip does provide sample code for the USB serial interface, but I've always been a bit suspicious of Microchip sample code ... often it isn't quite as solid as one would hope.

..

```
From 433022283286367439
X-Google-Thread: fc2a5,50249f71b943bddc
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 28 Jul 2007 14:33:32 -0500
From: "gb" <w9nogbspam@arrlspamno.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1185525789.042993.122200@z28g2000prd.googlegroups.com>
<hcmja3lfno0hlkhluh0uk7pletrp7v9uub@4ax.com>
Subject: Re: 20 Meter SSB Transceiver?
Date: Sat, 28 Jul 2007 14:33:15 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <IfydnQyjHZiRBzbbnZ2dnUVZ_o6knZ2d@comcast.com>
Lines: 50
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.14.242.165
X-Trace:
sv3-3hBYjse4TG6wgS71D+Wpsd4LXJksYK54EWsS2zXyH3imiU56917Ao7E2XctmMRpyPa0b9RxG6+0ShF
N!kEzDXnBmyCJp8Q4GPmtddttknljoTlKPdqFKh9igxm3AmnyWnXptx5DneBvl7X3smTwKPmV/yweX!
l5EbU5Bp42fDiDD3OaFdilxRHX5lYg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:604

<no.spam@no.uce.bellatlantic.net> wrote in message
news:hcmja3lfno0hlkhluh0uk7pletrp7v9uub@4ax.com...
> On Fri, 27 Jul 2007 01:43:09 -0700, Clayton <Evans8119@aol.com> wrote:
>
>>Hi,
>>I am looking for some plans for a simple(beginners) 20 Meter SSB Tube
>>Transceiver and was wondering if somebody had any good plans or web
>>site they could point me to?
>>
>>Any help would be greatly Appreciated
>>Thank You
>
> Radio Amateurs Handbook any copy printed between 1963 to 1970.
> Also back issues of QST for that era.
>
> A tube TRX for SSB will minimally be around 11 tubes or more and not
> simple.
> "Just finding items like the power transformer will be a challenge."
```

NOPE, that is urban legend BS or must be working for a Far East exporter (Purpose of the "weak dollar" is to strengthen these mfg. in world market - not kill them).

Just in greater Chicago area there are at least 3 major mfg. that have been around for 75+ years -- and turning out hundreds a day plus custom requests. Triode Electronics JUST handles the Dynaco rebuild requests -- they are providing brand new units exceeding original 1950 specifications (better materials and mfg facilities)
http://www.triodeelectronics.com/

Heyboer - Grand Rapids, MI
http://www.heyboertransformers.com/index.shtml

Heyboer also handles the profesional musicians/bands/professional restorers/audiphile market -- that still use vacuum tubes for that soft warm sound!
http://www.heyboertransformers.com/tubeamps.shtml

There are a LARGE number of US transformer manufacturers -- USE the GOOGLE with the Internet!!

> If you can find an old Heathkit HW32 (Monobander SSB series) and
> rebuild it that might work better.

Yes, that is a viable solution for a tube based radio. A solid state design is also possible.

gb

From -6412999295196703608
X-Google-Thread: fc2a5,f6972cd12a3f94a2,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!news.mixmin.net!aioe.org!not-for-mail
From: Andreu <root@sys1.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: VK5BR VLF receiver.
Date: Sat, 28 Jul 2007 23:34:37 +0200
Organization: Aioe.org NNTP Server
Lines: 7
Message-ID: <f8gcn4$tgd$1@aioe.org>
NNTP-Posting-Host: T4VqS19GbbXofasvbW9Udg.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
User-Agent: Thunderbird 2.0.0.4 (X11/20070604)

Xref: g2news2.google.com rec.radio.amateur.homebrew:605

Does anybody have a good copy of Lloyd's VLF receiver as in
http://www.qsl.net/vk5br/VLFLFRx.htm
or know of a better link ..?
The schematic is of such low resolution that's impossible
to distinguish component values.

Thanks, Andrew.

From -5576447389165365809
X-Google-Thread: fc2a5,50249f71b943bddc
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-
media.com!hw-filter.lga!newsfe14.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1185525789.042993.122200@z28g2000prd.googlegroups.com>
<hcmja3lfno0hlkhluh0uk7pletrp7v9uub@4ax.com> <Z6sqi.13863$rH6.7872@newsfe22.lga>
<f8ecvl$6n9$1@theodyn.ncf.ca>
Subject: Re: 20 Meter SSB Transceiver?
Lines: 48
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <8VOqi.114$g86.50@newsfe14.lga>
Date: Sat, 28 Jul 2007 17:53:07 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe14.lga 1185659588 68.0.230.122 (Sat, 28 Jul 2007 14:53:08 MST)
NNTP-Posting-Date: Sat, 28 Jul 2007 14:53:08 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:606

"Michael Black" <et472@FreeNet.Carleton.CA> wrote in message
news:f8ecvl$6n9$1@theodyn.ncf.ca...
> "Uncle Peter" (radioconnection@cox.net) writes:
>> <no.spam@no.uce.bellatlantic.net> wrote in message
>> news:hcmja3lfno0hlkhluh0uk7pletrp7v9uub@4ax.com...
>>> On Fri, 27 Jul 2007 01:43:09 -0700, Clayton <Evans8119@aol.com> wrote:
>>> > A different way of dual use, without the bilateral stages, is to have
> a balanced mixer, the filter, IF strip, and then a balanced mixer. By
> using broadband mixers, the first stage is either the receiver mixer,
> or the balanced modulator for the transmitter. Then the balanced mixer
> at the output of the IF stage is the product detector on receive, and

> the conversion mixer on the transmit. The signals all go down the
> strip in the same direction, and relatively little switching is needed.
>

I did that with a small solid state transceiver for 160 and 80 meters. The
mixers were DBMs. I think I wrote up the bilateral IF for Ham Radio,
but never got around to publishing the entire project..

> One of those ARRL SSB manuals had such a transceiver, nice and small,
> albeit with transistors.

I think that may have been the rig by Benjamin Vester (if my memory hasn't
messed up his name!) That was a cute project that always fascinated me.
At the time I was in my early teens and didn't have the skills to duplicate
it. Late 50s or early 60s IIRC.

>
> Though, I seem to recall there was a transceiver made out of subminiature
> tubes in the late fifties or early sixties. Unless I'm confusing it
> with something else, it was in the Bill Orr Handbook.
>
>

I'd like to look that one up for a read if your ever recall where it
appeared!!

>   Michael VE2BVW
>

73

Pete k1zjh
>

From 2144213266235829514
X-Google-Thread: fc2a5,50249f71b943bddc
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!news.kjsl.com!
ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 20 Meter SSB Transceiver?
Date: 28 Jul 2007 23:10:03 GMT
Organization: The National Capital FreeNet
Lines: 47
Message-ID: <f8gicb$f78$1@theodyn.ncf.ca>
References: <1185525789.042993.122200@z28g2000prd.googlegroups.com>
<hcmja3lfno0hlkhluh0uk7pletrp7v9uub@4ax.com> <Z6sqi.13863$rH6.7872@newsfe22.lga>

<f8ecvl$6n9$1@theodyn.ncf.ca> <8VOqi.114$g86.50@newsfe14.lga>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1185664203 15592 134.117.136.48 (28 Jul 2007 23:10:03 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 28 Jul 2007 23:10:03 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:607

"Uncle Peter" (radioconnection@cox.net) writes:

>> One of those ARRL SSB manuals had such a transceiver, nice and small,
>> albeit with transistors.
>
> I think that may have been the rig by Benjamin Vester (if my memory hasn't
> messed up his name!) That was a cute project that always fascinated me.
> At the time I was in my early teens and didn't have the skills to duplicate
> it. Late 50s or early 60s IIRC.
>

That's it. It's in both the fourth and fifth editions of the SSB Manual. Looking now, I see that it is listed as originally in QST for June 1959, which seems terribly early. It looks like something that would have been published in the mid-sixties.

What's surprising is how small it is. That sort of construction is hard in itself, but at a time when people were still just getting close to transistors it becomes amazing.

>>
>> Though, I seem to recall there was a transceiver made out of subminiature
>> tubes in the late fifties or early sixties. Unless I'm confusing it
>> with something else, it was in the Bill Orr Handbook.
>>
>>
>
> I'd like to look that one up for a read if your ever recall where it
> appeared!!
>

I was vague about that because I'm not sure what I'm remembering. There was an article in CQ about the "Argonaut", I think in the early sixties but maybe late fifties, about this miniature SSB transmitter or transceiver, and the DXpedition it went on (so maybe it was just a transmitter, to get some new countries on the air on SSB, where there'd already be receivers). It wasn't a construction article, but the intro mentioned the consctruction details were published elsewhere. Either in the Bill Orr Handbook, or the "Editors and Engineers" SSB handbook (which were either Howard W. Sams, or would a tad later be engulfed by Sams).

But I'm not sure if that had subminiature tubes or not. Thinking about it now, such a rig seems vaguely familiar, so maybe I did see the book it was in at the Library in the early seventies when I started reading such things. THere definitely is some memory that is stronger than that CQ article, but I don't know what.

Michael VE2BVW

From -8887270701312152413
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j4g2000prf.googlegroups.com!not-for-mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven power supply
Date: Sat, 28 Jul 2007 23:38:40 -0700
Organization: http://groups.google.com
Lines: 23
Message-ID: <1185691120.009824.138370@j4g2000prf.googlegroups.com>
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
NNTP-Posting-Host: 222.155.162.117
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1185691121 31072 127.0.0.1 (29 Jul 2007 06:38:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 29 Jul 2007 06:38:41 +0000 (UTC)
In-Reply-To: <46a69c64$0$30639$4c368faf@roadrunner.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j4g2000prf.googlegroups.com; posting-host=222.155.162.117;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:611

This may be a daft question, but is Marketing name for the product "Inverter" ?

Doing a quick search on eBay, several ovens pop up with this name, one description was "Panasonic Inverter Microwave Oven 1100W" - looks like a 110V product to me.

I have never heard of a 12 or 24v microwave oven, 1100W at 24v = 45 amps which seems excessive even as a load for a large truck.

Regards,

Mark

On Jul 25, 12:42 pm, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
> I picked up a couple of inverter powered microwave ovens at the goodwill and
> I was wondering if these power suppies can be used wih tube amps and such.
> Also would like schematic data if I could so I could see if I can modify
> them for other voltages besides thosed they are designed.
>

> Jimmie

From -5890753985277019030
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e16g2000pri.googlegroups.com!not-for-mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven power supply
Date: Sat, 28 Jul 2007 23:42:05 -0700
Organization: http://groups.google.com
Lines: 49
Message-ID: <1185691325.614270.246000@e16g2000pri.googlegroups.com>
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
   <13adcuu1ogqffaa@corp.supernews.com>
   <46a6b687$0$4737$4c368faf@roadrunner.com>
   <46aa5252$0$30641$4c368faf@roadrunner.com>
NNTP-Posting-Host: 222.155.162.117
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1185691326 29634 127.0.0.1 (29 Jul 2007 06:42:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 29 Jul 2007 06:42:06 +0000 (UTC)
In-Reply-To: <46aa5252$0$30641$4c368faf@roadrunner.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e16g2000pri.googlegroups.com; posting-host=222.155.162.117;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:612

7 seconds On and 3 seconds Off for a 1000w oven is an average power of
700w, assuming your chicken will integrate the power (as all good
chickens probably will :)

-Mark

On Jul 28, 8:15 am, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
> "Jimmie D" <GFEN...@carolina.rr.com> wrote in message
>
> news:46a6b687$0$4737$4c368faf@roadrunner.com...
>
>
>
>
>
>

```
>
> > "msg" <msg@_cybertheque.org_> wrote in message
> >news:13adcuu1ogqffaa@corp.supernews.com...
> >> Jimmie D wrote:
>
> >>> I picked up a couple of inverter powered microwave ovens at the goodwill
> >>> and I was wondering if these power suppies can be used wih tube amps and
> >>> such. Also would like schematic data if I could so I could see if I can
> >>> modify them for other voltages besides thosed they are designed.
>
> >> I didn't know such contraptions existed ;) Please post brand name, model
> >> and nameplate information from them to permit a bit of research. Sounds
> >> like a candidate for the quad 807 linear awaiting a power supply...
>
> >> Regards,
>
> >> Michael
>
> > Cant get to them right now for more data but one is a Sharp and the other
> > a Panasonic.
>
> i have found that they are regulated and variable to some degree via pwm Old
> stle microwaves varied power by varying the duty cycle that the tube was on
> over a period of seconds. that is to say if a 705 power was set the tube
> would be on full power for 7 seconds out of 10. the inverter style actually
> decreases the voltage to the tube. interesting possibilites about for
> amplifiers
>
> jimmie- Hide quoted text -
>
> - Show quoted text -




From 518580498673491091
X-Google-Thread: fc2a5,f6972cd12a3f94a2
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j4g2000prf.googlegroups.com!not-for-
mail
From:  MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VK5BR VLF receiver.
Date: Sun, 29 Jul 2007 02:01:23 -0700
Organization: http://groups.google.com
Lines: 16
Message-ID: <1185699683.650500.42560@j4g2000prf.googlegroups.com>
References: <f8gcn4$tgd$1@aioe.org>
NNTP-Posting-Host: 222.155.162.117
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1185699684 20092 127.0.0.1 (29 Jul 2007 09:01:24 GMT)
```

X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 29 Jul 2007 09:01:24 +0000 (UTC)
In-Reply-To: <f8gcn4$tgd$1@aioe.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j4g2000prf.googlegroups.com; posting-host=222.155.162.117;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:613

How about emailling him ?

http://www.qrz.com/p/email.pl?callsign=VK5BR;from=callsign

-Mark

On Jul 29, 9:34 am, Andreu <r...@sys1.org> wrote:
> Does anybody have a good copy of Lloyd's VLF receiver as inhttp://www.qsl.net/vk5br/VLFLFRx.htm
> or know of a better link ..?
> The schematic is of such low resolution that's impossible
> to distinguish component values.
>
> Thanks, Andrew.

From 4876996216292347510
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe14.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
<1185691120.009824.138370@j4g2000prf.googlegroups.com>
Subject: Re: microwave oven power supply
Lines: 35
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <o31ri.830$g86.464@newsfe14.lga>
Date: Sun, 29 Jul 2007 09:59:47 -0400
NNTP-Posting-Host: 68.0.230.122

X-Complaints-To: admin@cox.net
X-Trace: newsfe14.lga 1185717588 68.0.230.122 (Sun, 29 Jul 2007 06:59:48 MST)
NNTP-Posting-Date: Sun, 29 Jul 2007 06:59:48 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:614

"MarkAren" <markaren10@yahoo.com> wrote in message
news:1185691120.009824.138370@j4g2000prf.googlegroups.com...
> This may be a daft question, but is Marketing name for the product
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>
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>
> Regards,
>
> Mark
> On Jul 25, 12:42 pm, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
>> I picked up a couple of inverter powered microwave ovens at the goodwill
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>> I was wondering if these power suppies can be used wih tube amps and
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Conventional microwaves control the power by ON/OFF cycling of
the oven. For example, 1/2 power might be 5 seconds on, 5 seconds off.
The inverter technology controls the actual klystron operating voltage
to set the power level, and the food is heated continously. I'd suspect
the variable power feature has horrendous artifacts on the supply
voltage making it completely unsuitable for use by hams.

From -8884536190708381298
X-Google-Thread: fc2a5,a2eec9bb6a24a9df,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-mail
From: spamhog@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: HF finals from PC monitor boards?
Date: Sun, 29 Jul 2007 10:35:02 -0700

Organization: http://groups.google.com
Lines: 26
Message-ID: <1185730502.849368.23240@q75g2000hsh.googlegroups.com>
NNTP-Posting-Host: 84.223.119.179
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1185730503 12090 127.0.0.1 (29 Jul 2007 17:35:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 29 Jul 2007 17:35:03 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.21 (X11; Linux i686; U; en),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q75g2000hsh.googlegroups.com; posting-host=84.223.119.179;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:615

In the vacuum tube world,
several types of TV line finals
are reused as HF PA FINALS.

-       WHAT ABOUT CRT-TYPE PC MONITORS?   -

Are there solid state components there
that could do say 5 to 30W (in) at HF?

Any other components
that would fit well
in a basic CW TX?

I'd be moderately surprised if that were not the case!

Hints, anyone?

Filippo
N1JPR/I2

From 2381478480349722268
X-Google-Thread: f64c6,8c2d9914f1a1089b
X-Google-Thread: fc2a5,8c2d9914f1a1089b
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe16.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>

Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <468f9862$0$7122$88260bb3@free.teranews.com>
Subject: Re: Putting the Ham back into Ham Radio
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <Oh4ri.6620$dA7.3960@newsfe16.lga>
Date: Sun, 29 Jul 2007 13:39:57 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe16.lga 1185730798 68.0.230.122 (Sun, 29 Jul 2007 10:39:58 MST)
NNTP-Posting-Date: Sun, 29 Jul 2007 10:39:58 MST
Organization: Cox
Xref: g2news2.google.com uk.radio.amateur:9695 rec.radio.amateur.homebrew:616

"Polymath" <me@privacy.net> wrote in message
news:468f9862$0$7122$88260bb3@free.teranews.com...
>I wonder if we who are the Usenet-frequenting Radio Hams might somehow get
>together to sort out the dreadful mess that has been created in no small
>part by the self-interest of those who control the RSCB?
>

I think if you do some serious searching you find there are literally
HUNDREDS of
simple kits available for any ham who wants to build his own equipment. From
sophisticated transcievers to tiny TunaTins, PSK-31 transmitters, and
a few simple software defined
rigs thrown in for good measure. I don't see the need for what you're
proposing, and the market would have filled the gap if anyone else did.

Pete

From -3286457633465363631
X-Google-Thread: fc2a5,a2eec9bb6a24a9df
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!news.kjsl.com!
ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF finals from PC monitor boards?
Date: 29 Jul 2007 19:25:38 GMT
Organization: The National Capital FreeNet
Lines: 103
Message-ID: <f8ipji$ldi$1@theodyn.ncf.ca>
References: <1185730502.849368.23240@q75g2000hsh.googlegroups.com>

Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1185737138 21938 134.117.136.48 (29 Jul 2007 19:25:38 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 29 Jul 2007 19:25:38 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:617

(spamhog@gmail.com) writes:
> In the vacuum tube world,
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>
>
>
> -   WHAT ABOUT CRT-TYPE PC MONITORS?   -
>
>
>
> Are there solid state components there
> that could do say 5 to 30W (in) at HF?
>

I think you'll find the big power transistors are the horizontal output transistors, and they have very limited frequency response. Barely up into the HF range. Not really a surprise, given they are intended for tens of KHz useage, and nothing more. They may also have extraneous components built in, that may get in the way of other useage. And there may be limits on their useage in non-pulse applications, just as sweep tubes from years ago had limitations in linear use.

Any other power transistors may also be limited in frequency. On the other hand, other than the horizontal output transistor there isn't really anything special about the power transistors in a monitor. I suspect your chance of finding suitable transistors are just as good in any piece of consumer electronics that would have power transistors. So it's more a case of looking in those scrap printers and those switching supplies and even audio amplifiers, and looking up the power transistors in the databooks to see if they have any good frequency specs.

In the old days, tv sets were one of the few consumer electronic equipment around, those and radios. So if you wanted to scrounge parts, you had to go for tvs and radios. The former, if they had an actual transformer in the power supply, could supply a nice hefty transformer and that was likely a bigger key component than the tubes.

Now, there is an awful lot more consumer electronics out there, in quantity and variety. And of course, it gets scrapped. So there is a lot more chance to find parts of the common variety. There was nothing all that unique about tv sets, other than they were available.

Of course, sweep tubes were used in commercial ham equipment because they were cheap because they were used in a lot of tv sets. So long as transistors aren't exotic, they tend to be far cheaper than tubes were, and buying them is as easy and cheap as trying to find suitable HF transistors in consumer electronics.

> Any other components
> that would fit well
> in a basic CW TX?
>

Any consumer electronics will supply lots of capacitors and resistors and garden variety small signal transistors. They may supply some power transistors suitable for transmitting, but that would depend on what is used. Some consumer electronics will still have transformers, and those are worth grabbing. Filter capacitors for the power supply. A lot will supply various crystals and/or crystal oscillators, though chances are good their frequencies won't be in an actual ham band. Of course, find enough crystals on the same frequency and you can start making ladder filters. Lots of LEDs, and various switches (though pushbottons are more common in some areas than toggle switches). Pull a VCR or tv set, and you'll find tuner modules that may be useful in other things. Any old am/fm radio will have a multi section variable capacitor, just like the old days, though likely the newer the radio the more likely they use varactors instead. All the audio amplifier ICs you can want, be they in radios or on soundcards or modem cars. It just goes on.

But other than the variable capacitors, few of the parts will be especially exotic. If you need really high frequency transistors, you'll have to look for things like satellite tv receivers. Though, I once got some Mosfets out of FM preamps for car radios. The average am/fm radio will supply ceramic filters, "narrow" at 455KHz, wide at 10.7MHz. Find the legendary ssb CB sets in the garbage, and that should supply a decent filter for SSB, but otherwise you aren't likely to find narrow filters in consumer electronics. Cellphones, the older and clunkier the better since they will have useable components, are a treasure trove of parts, including roofing filters in the range above 30MHz, and usually a 455KHz narrowband FM IF strip, complete with a crystal to move from the roofing filter frequency down to 455KHz. But those narrow filters will still be too wide for even AM. Cordless phones offer up 10.7MHz and 455KHz ceramic filters for FM use, and again the needed crystal to get from one IF to the other. You can often extract the IF strip as a module and use it intact. They often use identifiable Motorola FM IF strips, that can be reused in some other uses. At the very least, they are a source of "gilbert cell" type mixers.

In the old days, if you wanted exotic components, you had to go for surplus. Because no consumer electronics would have those needed SSB filters, or even crystals to make your own filters. That's changed, a lot more variety is available in consumer equipment.

But likely no matter what you are building, unless it's relatively simple, you will always find some component that you can't scrounge.

Michael VE2BVW

From -644974509148512626
X-Google-Thread: fc2a5,a2eec9bb6a24a9df
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!postnews.google.com!
w3g2000hsg.googlegroups.com!not-for-mail
From: spamhog@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF finals from PC monitor boards?
Date: Sun, 29 Jul 2007 12:55:00 -0700
Organization: http://groups.google.com
Lines: 6
Message-ID: <1185738900.451957.46160@w3g2000hsg.googlegroups.com>
References: <1185730502.849368.23240@q75g2000hsh.googlegroups.com>
   <f8ipji$ldi$1@theodyn.ncf.ca>
NNTP-Posting-Host: 84.223.119.179
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1185738900 4184 127.0.0.1 (29 Jul 2007 19:55:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 29 Jul 2007 19:55:00 +0000 (UTC)
In-Reply-To: <f8ipji$ldi$1@theodyn.ncf.ca>
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.21 (X11; Linux i686; U; en),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: w3g2000hsg.googlegroups.com; posting-host=84.223.119.179;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:618

Thank you Michael! I know a back alley where lots of e-junk lie
waiting for the municipal solid waste disposal operators - or a
discerning scavenger. Now I am a more discerning scavenger.

:-)

From 6341688613318868620
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <46a69c64$0$30639$4c368faf@roadrunner.com>

<1185691120.009824.138370@j4g2000prf.googlegroups.com>
Subject: Re: microwave oven power supply
Date: Sun, 29 Jul 2007 16:49:30 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Lines: 27
Message-ID: <46acfd4f$0$16577$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:619

"MarkAren" <markaren10@yahoo.com> wrote in message
news:1185691120.009824.138370@j4g2000prf.googlegroups.com...
> This may be a daft question, but is Marketing name for the product
> "Inverter" ?
>
> Doing a quick search on eBay, several ovens pop up with this name, one
> description was "Panasonic Inverter Microwave Oven 1100W" - looks like
> a 110V product to me.
>
> I have never heard of a 12 or 24v microwave oven, 1100W at 24v = 45
> amps which seems excessive even as a load for a large truck.
>
> Regards,
>
> Mark
>

yes, there are appaently 2 types, one is made to run off of 12 volts maybe
24 VDC and the other runs off of 120VAC.
I think the 120VAC initially converts it to 300VDC then aplies it to the
inverter circuit.. Still trying to find a schematic to verify. I would think
this technology could be a major help for amp builders allowing us to build
inexpensive power supplies and easily custom wind the inverter transformers.

Jimmie

From 2961793298658322536
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <46a69c64$0$30639$4c368faf@roadrunner.com>

```
<1185691120.009824.138370@j4g2000prf.googlegroups.com>
<o31ri.830$g86.464@newsfe14.lga>
Subject: Re: microwave oven power supply
Date: Sun, 29 Jul 2007 16:51:39 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Lines: 44
Message-ID: <46acfdcf$0$32528$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:620


"Uncle Peter" <radioconnection@cox.net> wrote in message
news:o31ri.830$g86.464@newsfe14.lga...
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```

Uncle Peter has spoken so i guess i shouldjust give up on the idea.

Jimmie

```
From -1906478951531203532
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe16.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
<1185691120.009824.138370@j4g2000prf.googlegroups.com>
<o31ri.830$g86.464@newsfe14.lga> <46acfdcf$0$32528$4c368faf@roadrunner.com>
Subject: Re: microwave oven power supply
Lines: 53
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <rK7ri.6651$dA7.5342@newsfe16.lga>
Date: Sun, 29 Jul 2007 17:35:19 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe16.lga 1185744919 68.0.230.122 (Sun, 29 Jul 2007 14:35:19 MST)
NNTP-Posting-Date: Sun, 29 Jul 2007 14:35:19 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:621
```

"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
news:46acfdcf$0$32528$4c368faf@roadrunner.com...
>
> "Uncle Peter" <radioconnection@cox.net> wrote in message
> news:o31ri.830$g86.464@newsfe14.lga...
>>
>> "MarkAren" <markaren10@yahoo.com> wrote in message
>> news:1185691120.009824.138370@j4g2000prf.googlegroups.com...
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```
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>> voltage making it completely unsuitable for use by hams.
>>
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> Uncle Peter has spoken so i guess i shouldjust give up on the idea.
>
>
> Jimmie
>
```

I offered a opinion on Usenet... You can take it for what is worth..

Pete

```
From -2665246308629332570
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe16.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
<1185691120.009824.138370@j4g2000prf.googlegroups.com>
<o31ri.830$g86.464@newsfe14.lga> <46acfdcf$0$32528$4c368faf@roadrunner.com>
Subject: Re: microwave oven power supply
Lines: 19
X-Priority: 3
```

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <Oo8ri.6656$dA7.4823@newsfe16.lga>
Date: Sun, 29 Jul 2007 18:20:29 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe16.lga 1185747630 68.0.230.122 (Sun, 29 Jul 2007 15:20:30 MST)
NNTP-Posting-Date: Sun, 29 Jul 2007 15:20:30 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:622

"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
news:46acfdcf$0$32528$4c368faf@roadrunner.com...
> > Uncle Peter has spoken so i guess i shouldjust give up on the idea.
>
>
> Jimmie
>

Why don't you try one and let us know? It might just need additional
filtering
if they are using some sort of pulse width control of the klystron duty
cycle.
I was just expressing an opinion. My kitchen microwave is a Panasonic
inverter type.

Pete

From -7862454411418581408
X-Google-Thread: fc2a5,a2eec9bb6a24a9df
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news4.google.com!out01b.usenetserver.com!news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news.tele.dk!news.tele.dk!small.news.tele.dk!tiscali!newsfeed1.ip.tiscali.net!draco.tiscalinet.it!news-f2.tiscali.it!not-for-mail
Date: Sun, 29 Jul 2007 22:59:43 +0200
From: "i3hev, mario held" <marioheld@tiscali.it>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: it, en-US, eo, ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HF finals from PC monitor boards?
References: <1185730502.849368.23240@q75g2000hsh.googlegroups.com>
In-Reply-To: <1185730502.849368.23240@q75g2000hsh.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed

```
Content-Transfer-Encoding: 8bit
Lines: 17
Message-ID: <46acff24$0$21204$5fc30a8@news.tiscali.it>
Organization: Tiscali SpA
NNTP-Posting-Host: 84.221.94.164
X-Trace: 1185742628 news.tiscali.it 21204 84.221.94.164:2209
X-Complaints-To: abuse@tiscali.it
Xref: g2news2.google.com rec.radio.amateur.homebrew:623

spamhog@gmail.com wrote:

> Are there solid state components there
> that could do say 5 to 30W (in) at HF?

check the video finals, usually they can
supply a few watts in the HF range :)

--
73 es 51 de i3hev, op. mario

Non � Radioamatore, se non gli fuma il saldatore!
- Campagna 2006 "Il Radioamatore non � uno che ascolta la radio"

it.hobby.radioamatori.moderato
http://digilander.libero.it/hamweb
http://digilander.libero.it/esperantovenezia


From -6705788560346880332
X-Google-Thread: fc2a5,4270e94220292831,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out02a.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!
wesley.videotron.net!weber.videotron.net.POSTED!not-for-mail
From: "noname" <willnotwork@sorry.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Off topic .. what's the best reception portable am/fm for Camping...
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <sG9ri.13919$Mw2.99409@weber.videotron.net>
Date: Sun, 29 Jul 2007 19:48:09 -0400
NNTP-Posting-Host: 66.131.87.105
X-Complaints-To: abuse@videotron.ca
X-Trace: weber.videotron.net 1185752856 66.131.87.105 (Sun, 29 Jul 2007 19:47:36
EDT)
NNTP-Posting-Date: Sun, 29 Jul 2007 19:47:36 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:624
```

Hi. I'm sorry if this is off topic here but I thought some of you would know.

I'm looking for a small portable battery operated AM/FM radio to bring with me on hunting/fishing trips, so I guess what I'm looking for is a radios with a strong receiver to catch as many station as possible. I'm not looking for better sound, just a basic radio   I know any radio won't work if you are too far away, but that won't be my case. with the radio I have now , I can catch like 1 FM station whenb weather permits, and 4 or 5 AM stations,... I would like to increase these numbers as much as possible..

Can you recommend a good brand/model please?

regards
stef, Montreal, Canada.

From -2912364429299912040
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!sn-xt-sjc-04!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven power supply
Date: Sun, 29 Jul 2007 20:54:50 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13aqh75b4h0d635@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
<1185691120.009824.138370@j4g2000prf.googlegroups.com>
<46acfd4f$0$16577$4c368faf@roadrunner.com>
In-Reply-To: <46acfd4f$0$16577$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 18
X-Original-Bytes: 1746
Xref: g2news2.google.com rec.radio.amateur.homebrew:625

Jimmie D wrote:

> there are appaently 2 types, one is made to run off of 12 volts maybe
> 24 VDC and the other runs off of 120VAC.
> I think the 120VAC initially converts it to 300VDC then aplies it to the
> inverter circuit.. Still trying to find a schematic to verify. I would think

> this technology could be a major help for amp builders allowing us to build
> inexpensive power supplies and easily custom wind the inverter transformers.

Please dig out the ones you have and take photos, front and rear of the
entire unit and if you don't mind, disassemble and photograph and
components. I can host the photos if you wish (email them to me).
This would _really_ help in the evaluation until any of us find schematics.

Regards,

Michael
msg _at_ cybertheque _dot_ org

From -5671968069518221455
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.stanford.edu!sn-xt-sjc-03!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven power supply
Date: Sun, 29 Jul 2007 20:57:19 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13aqhbq9fjuqo52@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
<1185691120.009824.138370@j4g2000prf.googlegroups.com>
<o31ri.830$g86.464@newsfe14.lga> <46acfdcf$0$32528$4c368faf@roadrunner.com>
<Oo8ri.6656$dA7.4823@newsfe16.lga>
In-Reply-To: <Oo8ri.6656$dA7.4823@newsfe16.lga>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 20
Xref: g2news2.google.com rec.radio.amateur.homebrew:626

Uncle Peter wrote:

> if they are using some sort of pulse width control of the klystron duty
> cycle.

Somehow I seem to remember an early commercial 'radio oven' that used
a klystron; can anyone confirm this?

> I was just expressing an opinion. My kitchen microwave is a Panasonic
> inverter type.

Please post photos of it together with make and model info; if you feel frisky, photos of the interior and PCBs would also be helpful together with a photo of the wiring-diagram label that is often included.

Regards,

Michael

```
From -1341206591504200925
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe18.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
<1185691120.009824.138370@j4g2000prf.googlegroups.com>
<o31ri.830$g86.464@newsfe14.lga> <46acfdcf$0$32528$4c368faf@roadrunner.com>
<Oo8ri.6656$dA7.4823@newsfe16.lga> <13aqhbq9fjuqo52@corp.supernews.com>
Subject: Re: microwave oven power supply
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <QJdri.19546$5y.5540@newsfe18.lga>
Date: Mon, 30 Jul 2007 00:24:15 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe18.lga 1185769456 68.0.230.122 (Sun, 29 Jul 2007 21:24:16 MST)
NNTP-Posting-Date: Sun, 29 Jul 2007 21:24:16 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:627
```

"msg" <msg@_cybertheque.org_> wrote in message news:13aqhbq9fjuqo52@corp.supernews.com...

> Uncle Peter wrote:
>
> Please post photos of it together with make and model info; if you
> feel frisky, photos of the interior and PCBs would also be helpful
> together with a photo of the wiring-diagram label that is often
> included.
>
> Regards,
>

> Michael

When it croaks. My wife likes it in one piece for now. Magnetron,
not klystron... Typo.

Pete

From 463928089950497824
X-Google-Thread: fc2a5,50249f71b943bddc
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!z24g2000prh.googlegroups.com!not-for-mail
From: Clayton <Evans8119@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 20 Meter SSB Transceiver?
Date: Sun, 29 Jul 2007 22:46:44 -0700
Organization: http://groups.google.com
Lines: 12
Message-ID: <1185774404.751381.243680@z24g2000prh.googlegroups.com>
References: <1185525789.042993.122200@z28g2000prd.googlegroups.com>
   <eNwqi.3960$RQ5.1862@bignews8.bellsouth.net>
   <gdima3p5ef2dehv7r5ek9pv01fr5ivchc0@4ax.com>
   <f8fk9i$qi8$1@theodyn.ncf.ca>
   <jspna3psoud5llpclqn2a09pd6oh11lq1t@4ax.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1185774405 10672 127.0.0.1 (30 Jul 2007 05:46:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 30 Jul 2007 05:46:45 +0000 (UTC)
In-Reply-To: <jspna3psoud5llpclqn2a09pd6oh11lq1t@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 5.1; FDM),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-ntc-tb06.proxy.aol.com[CFC8709B] (Prism/1.2.1), HTTP/1.1 cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: z24g2000prh.googlegroups.com; posting-host=207.200.116.11;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:628

Thanks Everyone,
I'm not new to working with tubes just putting something together this
size is a bit daunting...
Tubes and crystals are not a problem either,I have plenty of both.

I'll look over all of your posts a bit closer and see what I can work
out.

I Appreciate the help Guys
Thank You

From 5890778508485579611
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!out02a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx02.iad01.newshosting.com!newshosting.com!post01.iad01!post02.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
<1185691120.009824.138370@j4g2000prf.googlegroups.com>
<46acfd4f$0$16577$4c368faf@roadrunner.com> <13aqh75b4h0d635@corp.supernews.com>
Subject: Re: microwave oven power supply
Date: Mon, 30 Jul 2007 05:55:13 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Lines: 31
Message-ID: <46adb575$0$29710$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:629

"msg" <msg@_cybertheque.org_> wrote in message
news:13aqh75b4h0d635@corp.supernews.com...
> Jimmie D wrote:
>
>> there are appaently 2 types, one is made to run off of 12 volts maybe 24
>> VDC and the other runs off of 120VAC.
>> I think the 120VAC initially converts it to 300VDC then aplies it to the
>> inverter circuit.. Still trying to find a schematic to verify. I would
>> think this technology could be a major help for amp builders allowing us
>> to build inexpensive power supplies and easily custom wind the inverter
>> transformers.
>
> Please dig out the ones you have and take photos, front and rear of the
> entire unit and if you don't mind, disassemble and photograph and
> components. I can host the photos if you wish (email them to me).
> This would _really_ help in the evaluation until any of us find
> schematics.
>
> Regards,

```
>
> Michael
> msg _at_ cybertheque _dot_ org

Wish i could, i dont even have one of them now. wife said i couldnt tear
them up and donated one to a church and we are using the other. i noticed i
can get the service manual for a few bucks and will probably do that, i was
hoping i could find one for free. Sometimes sevice manuals dont go into that
much detail. though.




From -6220915228328015297
X-Google-Thread: fc2a5,5f45ccb7b1ef78fb
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!tethys.csu.net!
nntp.csufresno.edu!sn-xt-sjc-03!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!
news.supernews.com!not-for-mail
From: "Anthony Fremont" <anyone@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: I need the help of a PIC programmer
Date: Mon, 16 Jul 2007 13:05:19 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <139ncr6af6gna04@news.supernews.com>
References: <1184601224.171535.315550@w3g2000hsg.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 14
Xref: g2news1.google.com rec.radio.amateur.homebrew:13685

Transmitter Man wrote:
> A colleague is looking for someone to assist him in writing some pic
> code for the 16F88 chip.
>
> This is to drive an LCD on a FM broadcast transmitter.
>
> If you think you can help for a negotiable fee then please drop me a
> line:
>
> sales (AT) transmittersrus.com

e-mail sent




From -6066154557681415145
```

```
X-Google-Thread: fc2a5,b072bbae52a2bfd2
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.lmi.net!news.lmi.net.POSTED!
not-for-mail
NNTP-Posting-Date: Mon, 16 Jul 2007 15:08:04 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: question on LP filter
References: <1184271424.548662.168650@g4g2000hsf.googlegroups.com>
<1184607722.188090.256820@n2g2000hse.googlegroups.com>
Organization: Home for Obscure Mythical Beings
X-Newsreader: trn 4.0-test74 (May 26, 2000)
From: dplatt@radagast.org (Dave Platt)
Originator: dplatt@radagast.org (Dave Platt)
Date: Mon, 16 Jul 2007 12:22:42 -0700
Message-ID: <25tsm4-fvb.ln1@radagast.org>
Lines: 18
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 66.117.149.248
X-Trace: sv3-7J2r2mkF1kWANWweGruAvTEpFPrgN5gvatwvlnFGISgXHPBdC/
GjEivS4jKVQkhhJ7SU9kO33VDaLkZ!4nn1YQOPIvXUEWgnh1gIT7eCzYdj+t6tZP/OW/6CekYB6rirDYW/
9VQBbpQwcA==
X-Complaints-To: abuse@lmi.net
X-DMCA-Complaints-To: abuse@lmi.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com rec.radio.amateur.homebrew:13686

In article <1184607722.188090.256820@n2g2000hse.googlegroups.com>,
K7ITM  <k7itm@msn.com> wrote:

>-- You can wind coils with nice even spacing by winding them on the
>threads of a bolt.  After you unscrew the bolt, if the wire diameter
>is fairly large for the particular coil diameter, the coil may well be
>self-supporting enough to be useful as-is.

An article with some graphs showing the inductance and Q of coils
which were wound on commonly-available bolts is at

  http://www.radagast.org/~dplatt/hamradio/self-supported-coils.pdf

-- 
Dave Platt <dplatt@radagast.org>                                   AE6EO
Friends of Jade Warrior home page:  http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!


From -6852718944695164730
X-Google-Thread: fc2a5,24355473894c84d1
```

```
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe13.lga.POSTED!53ab2750!not-for-mail
From: Brian <Not@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kepco power supply
Message-ID: <9uqq93hfig589k812kj2brdek9slo7t5l6@4ax.com>
References: <1183426253.919571.158310@g4g2000hsf.googlegroups.com> <p-
mdnfCgSuQl7xfbnZ2dnUVZ_rrinZ2d@web-ster.com>
<slrnf92okt.2ump.ben@saturn.home.ben.com>
<1Zdki.21386$3a.19874@bignews9.bellsouth.net>
X-Newsreader: Forte Agent 4.0/32.1071
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 19
Date: Tue, 17 Jul 2007 20:25:31 -0500
NNTP-Posting-Host: 70.160.105.4
X-Complaints-To: admin@cox.net
X-Trace: newsfe13.lga 1184718463 70.160.105.4 (Tue, 17 Jul 2007 17:27:43 MST)
NNTP-Posting-Date: Tue, 17 Jul 2007 17:27:43 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13687

On Sun, 8 Jul 2007 17:58:08 -0500, "Mike Lucas" <w5chr@bellsouth.net>
wrote:

>    Can anyone help on a manual or schematic for a Kepco SM36-15M
>supply? Kepco wants $ 100 for a manual... ouch! Google doesn't want
>to be helpful in this search.
>
>73, Mike W5CHR
>      Memphis
>

Don't know if it'll help, but here are 2 Kepco power supply schematics
we have here:

http://www.talonix.com/images/kepco1.pdf

http://www.talonix.com/images/kepco2.pdf

Brian


From -7310283661677978583
X-Google-Thread: fc2a5,24355473894c84d1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out03a.usenetserver.com!
```

```
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!elnk-atl-nf1!newsfeed.earthlink.net!
bigfeed2.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!
news.bellsouth.net!bignews9.bellsouth.net.POSTED!0ed2130f!not-for-mail
From: "Mike Lucas" <w5chr@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1183426253.919571.158310@g4g2000hsf.googlegroups.com> <p-
mdnfCgSuQl7xfbnZ2dnUVZ_rrinZ2d@web-ster.com>
<slrnf92okt.2ump.ben@saturn.home.ben.com>
<1Zdki.21386$3a.19874@bignews9.bellsouth.net>
<9uqq93hfig589k812kj2brdek9slo7t5l6@4ax.com>
Subject: Re: Kepco power supply
Lines: 31
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <wfeni.149$KG5.144@bignews9.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
okjdhlmeenidhihjdbdpiflmbcekedmfhojhikkbagflhcbobgmomejinmogcfkokmjoajgaedcpfbgece
aogjjkoniflhjebpeclalcloiihipliaaahcfbonbkndmjcmficgenbpcefealcakmpgcoaabdhllf
NNTP-Posting-Date: Tue, 17 Jul 2007 21:43:56 EDT
Organization: BellSouth Internet Group
Date: Tue, 17 Jul 2007 20:44:58 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:13688


"Brian" <Not@yahoo.com> wrote in message
news:9uqq93hfig589k812kj2brdek9slo7t5l6@4ax.com...
> On Sun, 8 Jul 2007 17:58:08 -0500, "Mike Lucas" <w5chr@bellsouth.net>
> wrote:
>
>>    Can anyone help on a manual or schematic for a Kepco SM36-15M
>>supply? Kepco wants $ 100 for a manual... ouch! Google doesn't want
>>to be helpful in this search.
>>
>>73, Mike W5CHR
>>      Memphis
>>
>
> Don't know if it'll help, but here are 2 Kepco power supply schematics
> we have here:
>
> http://www.talonix.com/images/kepco1.pdf
>
> http://www.talonix.com/images/kepco2.pdf
>
> Brian

Brian-Thanks for the links... the first one was close enough to what I
```

have to answer my questions. This thing followed me home from a hamfest,
maybe for use as a HV supply for an FET amp. Again, thanks for the post.

73,Mike W5CHR
Memphis

From 4155548886807709330
X-Google-Thread: 1118be,2601e21e0b2254b,start
X-Google-Thread: 108ff0,2601e21e0b2254b,start
X-Google-Thread: 110694,2601e21e0b2254b,start
X-Google-Thread: fc2a5,2601e21e0b2254b,start
X-Google-Thread: 1072db,2601e21e0b2254b,start
X-Google-Attributes:
gid1118be,gid108ff0,gid110694,gidfc2a5,gid1072db,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!x40g2000prg.googlegroups.com!not-for-mail
From: Mad Scientist Jr <usenet_daughter@yahoo.com>
Newsgroups:
sci.electronics.components,alt.music.makers.electronic,rec.music.makers.guitar,rec.radio.amateur.homebrew,alt.inventors
Subject: flush mount plastic 9v battery holder/compartment with cover?
Date: Wed, 18 Jul 2007 23:00:06 -0000
Organization: http://groups.google.com
Lines: 20
Message-ID: <1184799606.096177.218550@x40g2000prg.googlegroups.com>
NNTP-Posting-Host: 12.150.126.82
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1184799606 29788 127.0.0.1 (18 Jul 2007 23:00:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 18 Jul 2007 23:00:06 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.4)
Gecko/20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: x40g2000prg.googlegroups.com; posting-host=12.150.126.82;
posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com sci.electronics.components:17034
alt.music.makers.electronic:1518 rec.music.makers.guitar:28771
rec.radio.amateur.homebrew:13689 alt.inventors:6580

Does anyone know where you can order a plastic 9v battery holder with
a snap off cover that flush mounts in a project box, guitar body, etc?
It would be like the AA battery holder in this Synsonics Terminator
guitar except for 9v:

http://meatexz.com/cheesyguitars/terminator/4c_1.jpg

So far for a 9v battery, the closest thing I have found is this:

http://images.google.com/imgres?imgurl=http://www.kemo-electronic.com/bilder/g03b/
g03b_320x229.jpg&imgrefurl=http://www.kemo-electronic.com/en/gehaeuse/g03b/
index.htm&h=229&w=320&sz=10&hl=en&start=285&tbnid=u0FQeM-PG-
g8XM:&tbnh=84&tbnw=118&prev=/
images%3Fq%3D9v%2Bbattery%2Bholder%2B%26start%3D273%26gbv%3D2%26ndsp%3D21%26svnum%
3D10%26hl%3Den%26sa%3DN

except this doesn't have a lip that would allow you to cut a hole in a project box (or in my case a guitar body) and screw it in so it mounts almost flush to the surface of the box (maybe about 1/8" or 2/8" would project out from the surface, the lesser the profile the better).
Also, the cover slides off to the side but I am looking for one where the cover lifts off straight up (again to facilitate mounting).

Any tips appreciated!

From 6127691511117189297
X-Google-Thread: 1118be,2601e21e0b2254b
X-Google-Thread: 108ff0,2601e21e0b2254b
X-Google-Thread: 110694,2601e21e0b2254b
X-Google-Thread: fc2a5,2601e21e0b2254b
X-Google-Thread: 1072db,2601e21e0b2254b
X-Google-Attributes:
gid1118be,gid108ff0,gid110694,gidfc2a5,gid1072db,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news02.roc.ny.POSTED!53ab2750!
not-for-mail
From: gwatts <gwatts@frontiernet.net>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups:
sci.electronics.components,alt.music.makers.electronic,rec.music.makers.guitar,rec
.radio.amateur.homebrew,alt.inventors
Subject: Re: flush mount plastic 9v battery holder/compartment with cover?
References: <1184799606.096177.218550@x40g2000prg.googlegroups.com>
In-Reply-To: <1184799606.096177.218550@x40g2000prg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 9
Message-ID: <_cxni.12330$ya1.6162@news02.roc.ny>
X-Complaints-To: abuse-news@frontiernet.net
X-Trace:
52616e646f6d49562b9a4c60c190d420504df0dffaf546edc2c17678c7d66fcb87fe87d983c304bced
8901997d3e1e4ef8c6623f6c9d3c8c56a2efaffa7dfda0d6b48eeeea11065e5208434f13543c622174
18f391c8c9855ca7d22b083941fe544a8de744a2e1df8d5bd0b508180837
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your complaint properly.
NNTP-Posting-Date: Wed, 18 Jul 2007 23:18:18 UTC

```
Date: Wed, 18 Jul 2007 23:18:18 GMT
Xref: g2news1.google.com sci.electronics.components:17035
alt.music.makers.electronic:1519 rec.music.makers.guitar:28772
rec.radio.amateur.homebrew:13690 alt.inventors:6581
```

Mad Scientist Jr wrote:

> Does anyone know where you can order a plastic 9v battery holder with
> a snap off cover that flush mounts in a project box, guitar body, etc?
> It would be like the AA battery holder in this Synsonics Terminator
> guitar except for 9v...

There are a few here:

http://www.guitarpartsresource.com/electrical_other.htm

```
From 6745079862421735657
X-Google-Thread: 1118be,2601e21e0b2254b
X-Google-Thread: 108ff0,2601e21e0b2254b
X-Google-Thread: 110694,2601e21e0b2254b
X-Google-Thread: fc2a5,2601e21e0b2254b
X-Google-Thread: 1072db,2601e21e0b2254b
X-Google-Attributes:
gid1118be,gid108ff0,gid110694,gidfc2a5,gid1072db,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out03a.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-
xfer.nntp.sonic.net!posts.news.sonic.net!nnrp0.nntp.sonic.net!not-for-mail
Newsgroups:
sci.electronics.components,alt.music.makers.electronic,rec.music.makers.guitar,rec
.radio.amateur.homebrew,alt.inventors
Subject: Re: flush mount plastic 9v battery holder/compartment with cover?
References: <1184799606.096177.218550@x40g2000prg.googlegroups.com>
Organization: Sonic.net, Inc.
X-Newsreader: trn 4.0-test76 (Apr 2, 2001)
From: claudel@sonic.net (Claude V. Lucas)
Originator: claudel@sonic.net (Claude V. Lucas)
Date: 19 Jul 2007 01:04:48 GMT
Lines: 24
Message-ID: <469eb8b0$0$14136$742ec2ed@news.sonic.net>
NNTP-Posting-Date: 19 Jul 2007 01:04:48 GMT
NNTP-Posting-Host: f881aea9.news.sonic.net
X-Trace:
DXC=5Ad1[8OPkR;hXjM8[0hm7=m4K\QM1CV^01OYf0H`?;X1P6A6XjaH40=:oF=1i9HD64k7S=k799VX?
T:GMn1IO^P0
X-Complaints-To: abuse@sonic.net
Xref: g2news1.google.com sci.electronics.components:17036
alt.music.makers.electronic:1520 rec.music.makers.guitar:28773
rec.radio.amateur.homebrew:13691 alt.inventors:6584
```

In article <1184799606.096177.218550@x40g2000prg.googlegroups.com>,
Mad Scientist Jr <usenet_daughter@yahoo.com> wrote:

>Does anyone know where you can order a plastic 9v battery holder with

```
>a snap off cover that flush mounts in a project box, guitar body, etc?
>It would be like the AA battery holder in this Synsonics Terminator
>guitar except for 9v:
>
>http://meatexz.com/cheesyguitars/terminator/4c_1.jpg
>
>So far for a 9v battery, the closest thing I have found is this:
>
>http://images.google.com/imgres?imgurl=http://www.kemo-electronic.com/bilder/
g03b/g03b_320x229.jpg&imgrefurl=http://www.kemo-electronic.com/en/gehaeuse/g03b/
index.htm&h=229&w=320&sz=10&hl=en&start=285&tbnid=u0FQeM-PG-
g8XM:&tbnh=84&tbnw=118&prev=/
images%3Fq%3D9v%2Bbattery%2Bholder%2B%26start%3D273%26gbv%3D2%26ndsp%3D21%26svnum%
3D10%26hl%3Den%26sa%3DN
>
>except this doesn't have a lip that would allow you to cut a hole in a
>project box (or in my case a guitar body) and screw it in so it mounts
>almost flush to the surface of the box (maybe about 1/8" or 2/8" would
>project out from the surface, the lesser the profile the better).
>Also, the cover slides off to the side but I am looking for one where
>the cover lifts off straight up (again to facilitate mounting).
>
>Any tips appreciated!
>

http://www.guitarpartsresource.com/electrical_other.htm


From 7603511964308437155
X-Google-Thread: 1118be,2601e21e0b2254b
X-Google-Thread: 108ff0,2601e21e0b2254b
X-Google-Thread: 110694,2601e21e0b2254b
X-Google-Thread: fc2a5,2601e21e0b2254b
X-Google-Thread: 1072db,2601e21e0b2254b
X-Google-Attributes:
gid1118be,gid108ff0,gid110694,gidfc2a5,gid1072db,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!feed.news.qwest.net!
mpls-nntp-03.inet.qwest.net!news.qwest.net!not-for-mail
Date: Thu, 19 Jul 2007 02:57:56 -0700
From: PhattyMo <PhattyMo@nospam.gmail>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups:
sci.electronics.components,alt.music.makers.electronic,rec.music.makers.guitar,rec
.radio.amateur.homebrew,alt.inventors
Subject: Re: flush mount plastic 9v battery holder/compartment with cover?
References: <1184799606.096177.218550@x40g2000prg.googlegroups.com>
<_cxni.12330$ya1.6162@news02.roc.ny>
In-Reply-To: <_cxni.12330$ya1.6162@news02.roc.ny>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

```
Lines: 16
Message-ID: <469f357b$0$497$815e3792@news.qwest.net>
Organization: Qwest Communications Corporation
NNTP-Posting-Host: 546c7f8f.news.qwest.net
X-Trace: DXC=7]ndMhRcZSe1]
[P>bnE@ZoF85SKJoGf>dP^MjUZQ2dea3<4fknPZf>hTi]mQXjR>fh;V80FX7WkagVEf?
79fo8bo^1@8^MJ8Beo
X-Complaints-To: abuse@qwest.net
Xref: g2news1.google.com sci.electronics.components:17039
alt.music.makers.electronic:1521 rec.music.makers.guitar:28779
rec.radio.amateur.homebrew:13692 alt.inventors:6586

gwatts wrote:
> Mad Scientist Jr wrote:
>> Does anyone know where you can order a plastic 9v battery holder with
>> a snap off cover that flush mounts in a project box, guitar body, etc?
>> It would be like the AA battery holder in this Synsonics Terminator
>> guitar except for 9v...
>
> There are a few here:
>
> http://www.guitarpartsresource.com/electrical_other.htm



$16 for a battery holder!!?#$

Bring your Vaseline.


From 7919846732395011478
X-Google-Thread: fc2a5,f854446c545b8e6c,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Subject: making money
From: "william" <onedragon396@comcast.net>
Date: Thu, 19 Jul 2007 12:08:09 -0500
Message-ID: <1184864889_2465@sp12lax.superfeed.net>
Lines: 172
Path: g2news1.google.com!news4.google.com!out01a.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!news-out.newsfeeds.com!local!
sp12lax.superfeed.net!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
X-Proxy-User: $$kmj_rujqfc
X-Newsposter: SurgeNews/WebNews 69.245.185.158
X-Report:  Please report illegal or inappropriate use to <abuse@newsfeeds.com>.
Forward a copy of ALL headers INCLUDING the body. (DO NOT SEND ATTACHMENTS)
X-Comments2:  IMPORTANT: Newsfeeds.com does not condone,support,nor tolerate spam
or any illegal or copyrighted postings.
X-Comments:  This message was posted through Newsfeeds.com
Organization:  Superfeed.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13693
```

THIS IS GUARANTEED TO MAKE YOU MONEY!

READING THIS COULD CHANGE YOUR LIFE! I found this on a bulletin board and decided to try it. A little while back, I was browsing through newsgroups and came across an article similar to this that said you could make thousands of dollars within weeks with only an initial investment of $6.00! I was curious, so I kept reading. Anyway, it said that you send $1.00 to each of the 6 names and addresses stated in the article. You then place your name and address in the bottom of the list at #6, and post the article in at least 200 newsgroups. (There are thousands!) You can also e-mail it to some people. No catch, that was it. So after thinking it over, and talking to a few people first, I thought about trying it. I figured: "what have I got to lose except 6 stamps and $6.00, right?" Then I invested the measly $6.00. Well, GUESS WHAT! ... Within 7 days, I started getting money in the mail! I was shocked? I figured it would end soon, but the money just kept coming in. In my first week, I made about $25.00. By the end of the second week I had made a total of over $1,000.00! In the third week I had over $10,000.00 and it's still growing. This is now my fourth week and I have made a total of just over $42,000.00 and it's still coming in rapidly. It's certainly worth $6.00, and 6 stamps, I have spent more than that on the lottery! Let me tell you how this works and most importantly, why it works... Also, make sure you print a copy of this article NOW, so you can get the information off of it as you need it. I promise you that if you follow the directions exactly, that you will start making more money than you thought possible by doing something so easy! Suggestion: Read this entire message carefully! (print it out or download it). Follow the simple directions and watch the money come in! It's easy. It's legal. And, your investment is only $6.00 (plus postage). IMPORTANT: This is not a rip-off; it is not indecent; it is not illegal; and it is virtually no risk -- it really works! If all of the following instructions are adhered to, you will receive extraordinary dividends.

PLEASE NOTE:

Please follow these directions EXACTLY, and $50,000 or more can be yours in 20 to 60 days. This program remains successful because of the honesty and integrity of the participants. Please continue its success by carefully adhering to the instructions. You will now become part of the Mail Order business. In this business your product is not solid and tangible, it's a service. You are in the business of developing Mailing Lists. Many large corporations are happy to pay big bucks for quality lists. However, the money made from the mailing lists is secondary to the income which is made from people like you and me asking to be included in that list. Here are the 3 easy steps to success: STEP 1: Get 6 separate pieces of paper and write the following on each piece of paper "PLEASE PUT ME ON YOUR MAILING LIST." Now get 6 US $1.00 bills and place ONE inside EACH of the 6 pieces of paper so the bill will not be seen through the envelope (to prevent thievery). Next, place one paper in each of the 6 envelopes and seal them. You should now have 6 sealed envelopes, each with a piece of paper stating the above phrase, your name and address, and a $1.00 bill. What you are doing is creating a service. This is absolutely legal? You are requesting a legitimate service and you are paying for it! Like most of us I was a little skeptical and a little worried about the legal aspects of it all. So I checked it out with the US Post Office (1-800-725-2161) and they confirmed that it is indeed legal! STEP 2: Mail the 6 envelopes to the following addresses:

1) A. Mosley F. D. R. Station PO Box 7455 New York NY 10150 - 7455 (USA)
2) J. C. Lamb 150-33 108TH AVE. Jamaica NY 11433 (USA)
4) A. Hutchins 1501 Shepherd Rd. APT.160 Lakeland FL 33811 (USA)

5) S. U. Peeler 209 N. Belcrest Ave apt. c202 Springfield, MO 65802
6) w. garland 5330 goshen rd. #43 fort wayne, in. 46818

STEP 3 : Now take the #1 name off the list that you see above, move the other names up (6 becomes 5, 5 becomes 4, etc.) and add YOUR name as number 6 on the list. Now, post your amended article to at least 200 newsgroups. (I think there are close to 24,000 groups.) All you need is 200, but remember, the more you post, the more money you make! This is perfectly legal! If you have any doubts, refer to Title 18 Sec. 1302 & 1241 of the Postal lottery laws. Keep a copy of these steps for yourself and, whenever you need money, you can use it again, and again. PLEASE REMEMBER that this program remains successful because of the honesty and integrity of the participants and by their carefully adhering to the directions. Look at it this way, if you are of integrity, the program

will continue and the money that so many others have received will come your way, too.
NOTE: You may want to retain every name and address sent to you, either on a computer
or hard copy and keep the notes people send you. This VERIFIES that you are truly
providing a service. (Also, it might be a good idea to wrap the $1 bill in dark paper to
reduce the risk of mail theft.) So, as each post is downloaded and the directions carefully
followed, six members will be reimbursed for their participation as a List Developer with one
dollar each. Your name will move up the list geometrically so that when your name reached
the #1 position you will be receiving thousands of dollars in CASH! What an opportunity
for only $6.00 ($1.00 for each of the first six people listed above). Send it now, add your
own name to the list and you're in business! ---DIRECTIONS----FOR HOW TO POST
TO NEWSGROUPS---------- STEP 1: You do not need to retype this letter to do your
own posting. Simply put your cursor at the beginning of this letter, click and hold down your
mouse button. while continuing to hold down the mouse button, drag your cursor to the
bottom of this doc**ent, and release the mouse button. At this point the entire letter should
be highlighted then select 'copy' from the edit menu. This will copy the entire letter into the
computer's memory. STEP 2: Open a blank 'notepad' file from accessories in windows and
place your cursor at the top of the blank page. From the 'edit' menu select 'PASTE.' This
will paste a copy of the letter into notepad so that you can add your name to the bottom of
the list and to change the numbers of the list. STEP 3: Save your new notepad file as a '.txt'
file. If you want to do your postings in different settings, you'll always have this file to go
back to. STEP 4: Use Netscape or Internet Explorer and try search for various newsgroups
(on-line forums, message boards, chat sites, discussions). STEP 5: Visit these message
boards and post this article as a new message by highlighting the text of this letter and
selecting 'PASTE' from the edit menu. Fill in the Subject, this will be the header that
everyone sees as they scroll through the list of postings in a particular group, click the post
message button. You're done with your first one! Congratulations... That is it! All you have
to do is jump to different newsgroups and post away, after you get the

hang of it, it will take
about 30 seconds for each newsgroup! ** REMEMBER, THE MORE NEWSGROUPS
YOU POST IN, THE MORE MONEY YOU WILL MAKE! BUT YOU HAVE TO
POST A MINIMUM OF 200**
That is it! You will begin receiving money from around the
world within days! **JUST MAKE SURE ALL THE ADDRESSES ARE CORRECT. **

```
From 1485410785050780903
X-Google-Thread: 1118be,2601e21e0b2254b
X-Google-Thread: 108ff0,2601e21e0b2254b
X-Google-Thread: 110694,2601e21e0b2254b
X-Google-Thread: fc2a5,2601e21e0b2254b
X-Google-Thread: 1072db,2601e21e0b2254b
X-Google-Attributes:
gid1118be,gid108ff0,gid110694,gidfc2a5,gid1072db,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news02.roc.ny.POSTED!fd24bd7a!
not-for-mail
From: gwatts <gwatts@frontiernet.net>
User-Agent: Mozilla Thunderbird 1.0.6 (Windows/20050716)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
sci.electronics.components,alt.music.makers.electronic,rec.music.makers.guitar,rec
.radio.amateur.homebrew,alt.inventors
Subject: Re: flush mount plastic 9v battery holder/compartment with cover?
References: <1184799606.096177.218550@x40g2000prg.googlegroups.com>
<_cxni.12330$ya1.6162@news02.roc.ny> <469f357b$0$497$815e3792@news.qwest.net>
In-Reply-To: <469f357b$0$497$815e3792@news.qwest.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 23
Message-ID: <CWMni.12374$ya1.5807@news02.roc.ny>
X-Complaints-To: abuse-news@frontiernet.net
X-Trace:
52616e646f6d49562b9a4c60c190d420d4353e19db09195da5cca4e1997951ed88d05e9a8a066defe6
a2d644eeefdd4c753b039548337079466ad0568bf6c04a04a8bd43ba2dafd86c4b10c5bd1de1500fcc
bb10561d54ea79e84a675d3ab153ba1fefde857fc2bd400f264c420a304bce7085ffa0d28f174288f7
cddd7b1041
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Thu, 19 Jul 2007 17:10:58 UTC
Date: Thu, 19 Jul 2007 17:10:58 GMT
Xref: g2news1.google.com sci.electronics.components:17047
alt.music.makers.electronic:1522 rec.music.makers.guitar:28790
rec.radio.amateur.homebrew:13694 alt.inventors:6588
```

PhattyMo wrote:

```
> gwatts wrote:
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>> http://www.guitarpartsresource.com/electrical_other.htm
>
>
>
>
> $16 for a battery holder!!?#$
>
> Bring your Vaseline.

Do you have any better suggestions for what Mad Sci Jr. wants?


From 3347852720336089482
X-Google-Thread: 1118be,2601e21e0b2254b
X-Google-Thread: 108ff0,2601e21e0b2254b
X-Google-Thread: 110694,2601e21e0b2254b
X-Google-Thread: fc2a5,2601e21e0b2254b
X-Google-Thread: 1072db,2601e21e0b2254b
X-Google-Attributes:
gid1118be,gid108ff0,gid110694,gidfc2a5,gid1072db,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Subject: Re: flush mount plastic 9v battery holder/compartment with cover?
From: me <me@here.net>
Date: Thu, 19 Jul 2007 19:19:50 -0500
Message-ID: <Xns9972C4BB890C9meherenet@38.119.71.210>
References: <1184799606.096177.218550@x40g2000prg.googlegroups.com>
<_cxni.12330$ya1.6162@news02.roc.ny> <469f357b$0$497$815e3792@news.qwest.net>
<CWMni.12374$ya1.5807@news02.roc.ny>
Lines: 42
Path: g2news1.google.com!news4.google.com!out03b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-
out.newsgroups.com!sp12lax.superfeed.net!not-for-mail
Newsgroups:
sci.electronics.components,alt.music.makers.electronic,rec.music.makers.guitar,rec
.radio.amateur.homebrew,alt.inventors
User-Agent: Xnews/5.04.25
X-Report:  Please report illegal or inappropriate use to <abuse@newsfeeds.com>.
Forward a copy of ALL headers INCLUDING the body. (DO NOT SEND ATTACHMENTS)
X-Comments2:  IMPORTANT: Newsfeeds.com does not condone,support,nor tolerate spam
or any illegal or copyrighted postings.
X-Comments:  This message was posted through Newsfeeds.com
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```
Organization:  Superfeed.net
Xref: g2news1.google.com sci.electronics.components:17065
alt.music.makers.electronic:1523 rec.music.makers.guitar:28805
rec.radio.amateur.homebrew:13695 alt.inventors:6589

gwatts <gwatts@frontiernet.net> wrote in news:CWMni.12374$ya1.5807
@news02.roc.ny:

>PhattyMo wrote:
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>>
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>

www.guitarelectronics.com/category/20electronicparts.8batteryaccessories
```

----== Posted via Newsfeeds.Com - Unlimited-Unrestricted-Secure Usenet News==----
http://www.newsfeeds.com The #1 Newsgroup Service in the World! 120,000+
Newsgroups
----= East and West-Coast Server Farms - Total Privacy via Encryption =----

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From -2217649997597832115
X-Google-Thread: 1118be,2601e21e0b2254b
X-Google-Thread: 108ff0,2601e21e0b2254b
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X-Google-Thread: fc2a5,2601e21e0b2254b
X-Google-Thread: 1072db,2601e21e0b2254b
X-Google-Attributes:
gid1118be,gid108ff0,gid110694,gidfc2a5,gid1072db,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feed.news.qwest.net!mpls-
```

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nntp-02.inet.qwest.net!news.qwest.net!not-for-mail
Date: Thu, 19 Jul 2007 18:08:12 -0700
From: PhattyMo <PhattyMo@nospam.gmail>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups:
sci.electronics.components,alt.music.makers.electronic,rec.music.makers.guitar,rec
.radio.amateur.homebrew,alt.inventors
Subject: Re: flush mount plastic 9v battery holder/compartment with cover?
References: <1184799606.096177.218550@x40g2000prg.googlegroups.com>
<_cxni.12330$ya1.6162@news02.roc.ny> <469f357b$0$497$815e3792@news.qwest.net>
<CWMni.12374$ya1.5807@news02.roc.ny>
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36BE6bZbin\S<AF85SKJoGf>DPaDlfmWfA2L3<4fknPZf>HTi]mQXjR>fH;V80FX7WkaGZbV^V\B=LRGCP
I?74JSKLI
X-Complaints-To: abuse@qwest.net
Xref: g2news1.google.com sci.electronics.components:17067
alt.music.makers.electronic:1524 rec.music.makers.guitar:28807
rec.radio.amateur.homebrew:13696 alt.inventors:6590

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>>
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>>
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> Do you have any better suggestions for what Mad Sci Jr. wants?

Maybe "Figure H" here..?
```

http://www.mouser.com/catalog/630/1742.PDF

And it's only $4.

```
From -1943021645914725924
X-Google-Thread: 1118be,2601e21e0b2254b
X-Google-Thread: 108ff0,2601e21e0b2254b
X-Google-Thread: 110694,2601e21e0b2254b
X-Google-Thread: fc2a5,2601e21e0b2254b
X-Google-Thread: 1072db,2601e21e0b2254b
X-Google-Attributes:
gid1118be,gid108ff0,gid110694,gidfc2a5,gid1072db,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news01.roc.ny.POSTED!53ab2750!
not-for-mail
From: gwatts <gwatts@frontiernet.net>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups:
sci.electronics.components,alt.music.makers.electronic,rec.music.makers.guitar,rec
.radio.amateur.homebrew,alt.inventors
Subject: Re: flush mount plastic 9v battery holder/compartment with cover?
References: <1184799606.096177.218550@x40g2000prg.googlegroups.com>
<_cxni.12330$ya1.6162@news02.roc.ny> <469f357b$0$497$815e3792@news.qwest.net>
<CWMni.12374$ya1.5807@news02.roc.ny> <46a00ad0$0$499$815e3792@news.qwest.net>
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Lines: 36
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48f155f6a5af4d24f2acaa476c89f87c91affa7d60ae5bfdf4e44568c3e6
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Fri, 20 Jul 2007 03:21:27 UTC
Date: Fri, 20 Jul 2007 03:21:27 GMT
Xref: g2news1.google.com sci.electronics.components:17072
alt.music.makers.electronic:1525 rec.music.makers.guitar:28811
rec.radio.amateur.homebrew:13697 alt.inventors:6591

PhattyMo wrote:
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>
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It doesn't really lend itself to mounting in a guitar body like the
examples he gave but it might work for what he wants, and why didn't you
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to it after you made some snide comment about someone else's positive
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From 4645883092624336678
X-Google-Thread: 1118be,2601e21e0b2254b
X-Google-Thread: 108ff0,2601e21e0b2254b
X-Google-Thread: 110694,2601e21e0b2254b
X-Google-Thread: fc2a5,2601e21e0b2254b
X-Google-Thread: 1072db,2601e21e0b2254b
X-Google-Attributes:
gid1118be,gid108ff0,gid110694,gidfc2a5,gid1072db,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feed.news.qwest.net!mpls-
nntp-02.inet.qwest.net!news.qwest.net!not-for-mail
Date: Fri, 20 Jul 2007 01:15:10 -0700
From: PhattyMo <PhattyMo@nospam.gmail>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups:
sci.electronics.components,alt.music.makers.electronic,rec.music.makers.guitar,rec
.radio.amateur.homebrew,alt.inventors
Subject: Re: flush mount plastic 9v battery holder/compartment with cover?
References: <1184799606.096177.218550@x40g2000prg.googlegroups.com>
<_cxni.12330$ya1.6162@news02.roc.ny> <469f357b$0$497$815e3792@news.qwest.net>
<CWMni.12374$ya1.5807@news02.roc.ny> <46a00ad0$0$499$815e3792@news.qwest.net>
<XSVni.12498$B25.9576@news01.roc.ny>
```

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hbON3UX4ZJ3<4fknPZf>HTi]mQXjR>fH;V80FX7WkaGVEf?79fo8bO:2_JI`3j5\N
X-Complaints-To: abuse@qwest.net
Xref: g2news1.google.com sci.electronics.components:17075
alt.music.makers.electronic:1526 rec.music.makers.guitar:28816
rec.radio.amateur.homebrew:13698 alt.inventors:6592

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> to it after you made some snide comment about someone else's positive
> suggestion?
```

Because I figured someone else might have the wits to look in the Mouser
catalog "in the first place".I had assumed that everyone checks
Mouser/Digikey,etc. My bad.
That was the first place I looked,and the first example I found.I'm sure
there are other sources,if ya look around a bit.

$16 for a battery holder is robbery,IMHO.

From 4501032973552925466
X-Google-Thread: fc2a5,a1d68c57996d4893,start
X-Google-Attributes: gidfc2a5,public,usenet
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From: "Brian" <kb9bvn@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FT2600 and APRS
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
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Message-ID: <Xw5oi.8745$rR.780@newsread2.news.pas.earthlink.net>
Date: Fri, 20 Jul 2007 16:37:11 GMT
NNTP-Posting-Host: 76.1.24.217
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X-Trace: newsread2.news.pas.earthlink.net 1184949431 76.1.24.217 (Fri, 20 Jul 2007
09:37:11 PDT)
NNTP-Posting-Date: Fri, 20 Jul 2007 09:37:11 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13699

I have a Yaesu FT 2600 2m mobile and a Garmin eTrex hand held GPS device.

If I wanted to install this in my car so I could use APRS to track my
location, would I need any other hardware? (TNC?)

Thanks es 73

From -3411275109139477933
X-Google-Thread: 10e8c9,24588f7c8f7033ad,start
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X-Google-Thread: fec2a,24588f7c8f7033ad,start
X-Google-Attributes: gid10e8c9,gid116029,gid107568,gidfc2a5,gidfec2a,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news1.google.com!postnews.google.com!x40g2000prg.googlegroups.com!not-for-mail
From: JonJon <john_francis_ayres@yahoo.com>
Newsgroups: alt.startrek,alt.tv.star-trek.tos,alt.tv.star-trek.voyager,rec.radio.amateur.homebrew,alt.politics.usa.republican
Subject: Bomb All Democrats And Republicans! Destroy Capital Hill! Fuck Them In The Ass And In The Mouth! Kill Them All! Bomb Formulas Can Be Found On My Bulletin Board!
Date: Fri, 20 Jul 2007 11:59:31 -0700
Organization: http://groups.google.com
Lines: 3402
Message-ID: <1184957971.292119.68770@x40g2000prg.googlegroups.com>
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The Medical Community's Cheap Trick - What Is The Shank? - Discoloration Of Sexaling Organs - Sexaling And Prayer Statements - The Butt Hole Sexaling Organ And The Shank Sexaling Organ - Nerves - Nerve Units As Living Beings, I.E., Creatures - Brains And Notational Thoughts - Feeding The Organ Kiddies The Foods They Need - If We Were Able To Be Born With "Owner's Manuals" For Our Body And Brains - Duplicator Tests - Sexaling With Family And Friends - Massaging The Butt Hole And Shank - Sending Hillary And Obama On Their Final Rides - Explosives To Kill Hillary Clinton, Obama, George Walker Bush, Jr. Barbara Bush, Jr. And All The Congressmen and Congresswomen, And All The White House Staff, Etc. - A Note On Hillary Clinton, George Bush, Jr., Barbara Bush, Jr., And A Number Of Other Lesbianists - What To Do, Now? - Compliance With The General Terms Of Their Settlement Agreements Persons Who Wish To Participate In The Former Sexaling Program - Qualified Card Carrying Members - Zealot Updated: 23-06-07 Rev.d 20:50 PDT

The Medical Community's Cheap Trick

A cheap trick played on medical doctors and students, untill they meet up with a human cadaver, is the cheap trick or lie that is perpetrated by the medical establishment on students of the medical profession.

How students of the medical profession stay quiet, after learning the truth, I do not know. It is a matter for each doctor to reflect upon, and for each medical student to reflect upon, and come to a reasonable answer for him self or for herself.

In other words, are they going to tell the truth or not. It recently came to my attention that the medical community is foisting, or purposely telling a lie to the public, with regards to the internal organs of the human body.

In particular, a stomach is not made up of twisting, turning, guts, or intestines, that go to one side and then downwards, and then side ways, and so forth, as depicted in this particular picture, of the so-called large and small intestines.

Please see, "Anatomy of the Large And Small Intestines"

http://medpics.findlaw.com/generateexhibit.php?ID=1696&ExhibitKeywordsRaw=Anatomy+of+the+Colon+(Large+Intestine)&TL=1889&A=42409

A similar faked drawing of the tummy tube, or shank, the descending colon tube, which is titled "intestines", along with a faked stomach drawing, by the Lesbianists and their bogus 'medical' establishment, can be found at:

http://medpics.findlaw.com/generateexhibit.php?ID=23&ExhibitKeywordsRaw=stomach&TL=1825&A=42409

Another bogus drawing of the abdomen and the supposed 'intestines', can be found at,

http://medpics.findlaw.com/generateexhibit.php?ID=13860&ExhibitKeywordsRaw=&TL=4294967295&A=42409

These pictures, and all other pictures like it, are totally bogus. There are no guts, bending and twisting to one direction, and then to another direction, that eventually find an outlet at the poop hole in the human body.

Chimps, apes, and monkeys may have these types of stomach 'tripe' that is longish, twisting to one side or to another, going back and forth, and then wrapping or folding down under other tummy tubes, and then twisting in and then moving outwardsly, as chimps, apes, and monkeyes live on banana foilage, twigs, seeds, hard shells, and other difficult to eat, hard, rubbery, plant roughage, of one kind, or of another. Some oselots may have this kind of tubeing, and so may many other animals, but not the human being.

In the human being, there is in reality, no such guts or tripe tubeing, and there is what is called a 'shank'. A shank is the human being's tummy tube, or the desceding colon tube.

Your tummy tube descends from the front right side of the tummy, in the near to upper to middle to near lower area or section of your tummy, depending on the person. Some people, may have their tummy tube, the ejector pipe, also called the descending pipe, a little higher up, than other people. Some people may have their ejector pipe a little lower than other people. That is not significant.

The muscles inside of the tummy, and surrounding the tummy, cause a pushing motion, to eject the tummy food, that has made its way to the back side of the inside of the tummy, and to the lower or middle area, near the eject pipe, on the inside of the tummy. Once your tummy food makes it there, the muscles begin to squeeze on it, and the muscles on the inside and on the outside, squeeze on it, and force it up and out of the ejector pipe, and down a chute, or the descension colon pipe.

The descension colon pipe goes in a nearly straight line, almost perfectly straight, in some people, directly to the out put terminal, which is the poop hole.

The intake for food and beverages from your lips, mouth, to your throat, or food pipe to connect your mouth to the tummy, that connector location is on the top side of the tummy, on the left side of your tummy, as you face forward. There is a tiny amount of terminal area, that's your stomach area, that is the terminal area, on the top side of the tummy, that is to the immediate left of the intake tube terminal entry way, itself. That means, there is a descending tube from your mouth to your stomach, and it connectes to the left side of your stomach, not all the way to the left, but nearly all the way to the left side of the stomach, but on the top, generally, and in some people's cases, it is a little down, from the top, less than an inch or two from the top.

So the intake tube from your mouth sort of goes in to your tummy, from the front of the tummy, a little lower than from the top side edge of your tummy. The top edge of your tummy is located just about at the same height as your titty nipples are located on the chest. The little inwardsly pointing, dimple, in the middle of your chest, a very large dimple, just above where the rib cage begins to open up and spread apart and where the tummy muscle cavity can be felt, that dimple, or inwardsly pointing cavature, or the caving inwardsly of the chest bones in that area, some times slightly below, sometimes slightly above that point, is where the tummy's top edge is found. The tummy's top edge runs horizontally, more or less, across from one side to the other. It does descend at the outer edges of the tummy, to form a pouch system.

A bogus drawing of the Lesbianists' pretend 'esophagus' for all the med school students to ponder over, and of a pretend tummy, which has the connections on the back side, where they are not located, but on the front side, where they are located, can be found at,

http://medpics.findlaw.com/generateexhibit.php?ID=4599&ExhibitKeywordsRaw=esophagus&TL=1825&A=42409

The tummy does not look like a cashew peanut, like in the drawing. It is a pouch, and it is more oval in shape, kind of like a box, but a little long or rectangular, some may say it is similar in shape to a peanut, or to a raisin, or to a plumb, and it runs lengthwise from one side to the other, with the narrow part of the oval running horizontally. It is nearly a perfect, very slightly long, oval in shape.

The descending colon pipe, your tummy tube, which goes nearly in a straight and almost perfectly vertical, in many cases, direction, to your poop hole, from the ejection outlet port of your tummy, which is on the front side of the tummy, on the front right side, as mentioned above is very long, and in some women, the tummy rests slightly higher up, a tiny bit, to allow for a longer 'shank', or sexaling tube.

What Is The Shank?

The shank, if we look at the opening and entrance to the shank, the butt hole entrance, the shank is a multiple duty, instrument. It is a nearly straight tube, and it allows food to exhaust from the tummy pouch. It also allows a dick to be placed up into it from the rear upwards, and a dick can be very long, in some cases, and there for, the tummy tube, or shank, is very long, and also, importantly, it is generally straight in most women and girls and in lots of men and boys.

Discoloration Of Sexaling Organs

If we look at the dick, or if we look at the scrotum, we will see it is a darker, slightly discolored body instrument. The vagina is slightly discolored, and so are the titty nipples. So are the lips, the inside of the mouth, the throat inside, and in various other places, depending on the person. The palms of the hands, the undersides of the fingers, the soles of the feet, the toes, the ears, the cheeks, and the underarms of people are all discolored to one extend or another. The discoloration is an indicator of the fact that these sense organs, or love making instruments, are major sexaling instruments. The other organs of the body, are minor sexaling instruments. All of them, are sexaling instruments when you activate them, by massaging them, and by rubbing them, and so forth, and they will begin to shoot off energies, and those energies will purify and holyfy your life and clear up your karma and the karma of the people around you as those energies will shoot out in all directions cleaning up my universe, as they go zinging outwards. The energies will erase your karma, over time, and if you pray with a prayerful minded statement in mind, while sexaling, your karma that is related to that prayer, that needs to be erased, will get erased, little by little. For examply, "I pray that I will be able to have the good health and prosperous life, that will allow me to live, comfortably, and without distress."

Sexaling And Prayer Statements

The negative karma that you have, that would prevent you from living a healthy life, that is also prosperous, and without distress, will slowly, over time, get erased, as you make your statement, every time you begin sexaling, or every time you begin a sexaling session. If your sexaling sessions are going to go for days, say, three to eight days, for instance, you might want to repeat the prayerful minded statement, every eight to twelve hours, to fifteen, to thirty, to fifty hours, or so, to 'freshen' it up, once every so often. The more you freshen it up, the better it will work. The prayer will apply to not only you, but to every one else who is sexaling, if you say, "I pray that I and every one else will be able to have the good health and prosperous life, that will allow not only myself, but all other people, as well, to live without distress." This statement is a bodhisatva minded statement, and it will produce better results. Prayer statements said with others in mind, in addition to your self, produce better results, as a general rule. Why is that? Because we want to purify not only your karma, but every one's karma, and you get extra points for thinking about every one else and their needs, as well as your needs. Not only your self, but every person who is sexaling, during the time you are sexaling, and during the time, you continue or plan to continue sexaling, as one long sexaling session, will benefit from this prayer statement.

The Butt Hole Sexaling Organ And The Shank Sexaling Organ

The butt hole is also discolored, in all human beings, and that is an indicator that the butt hole is a sexaling organ.

The discoloration of the butt hole entrance, is an indication of the fact that the butt hole entrance is a sexaling organ. If we look inside the butt hole, we will notice that the entire length of the 'shank' is discolored, and therefore, the entire shank is a sexaling organ. Sexaling organs are different in coloration, than the normal skin coloration of the body.

The discoloration is due to the fact that there are a gazillion plus tiny blood carrier veins and arteries, that are very tiny, so tiny, you can not see them with today's 'current' medical microscope technology that is in the hospitals and labs, used by doctors, scientists, and lab technicians. These tiny blood 'capillaries' or fluid flow ductways, are too small to be seen by a doctor's microscope, or by a lab technician's microscope. These fluid flow ductways, or capillaries, are all clustered together, in high densities. When they cluster together, that is for a purpose.

They are clustered together in high densities to allow for fluids to flow to the nerves in that area of the body to feed all the mouths in the nerves of that area of the body. There are clusters of sense nerves that are extremely dense, in all the sexaling organs. Where there are high densities of sexaling nerve clusters, there are lots of fluid flow ductways, or capillaries, and the area of the skin that is visible to your eyes, will show a slight to moderate, to heavy discoloration, due to all the fluids flowing through the area, carrying food and nourishment.

Nerves

Nerves are organs in them selves. The smallest nerve organ is a nerve cell, perhaps. My memories are not very good, so we might find smaller nerve organs, as my memories improve. A nerve cell has all the organs in it, to allow it to function as a normal, living being. That means, it is alive, and it thinks, and it cogitates, or mulls over thoughts, and it considers, for instance, 'What am I going to do, now', and it has lots of thoughts, and it stays busy doing lots of thinking, and by doing lots of cogitating, and by doing lots of communicating with other nerve cell organ kids of mine.

Nerve Units As Living Beings, I.E., Creatures

Nerves, just as nerve cells, form units, and as a unit, they form a living being, or creature, and all of them have mouths, since all my creatures have mouths, and they all need to be fed.

The sense nerves, the erotic nerves that are clustered together, need to be fed the foods and nourishment that they need to be healthy and fit, so as to be able to respond, to stimulus. They need to eat to be healthy, so that they will then be able to respond when stimulus is applied to that area of the body, where they are located.

Each organ in the body, has a brain, and a mouth, and a stomach, and a poop hole, and a pee hole, and all the other organs they need to survive with.

Some organs, maybe all of them, need to feel comforted by other organs, i.e., creatures of the same kind as they are. Some organs like to not only speak to other organs creatures who are like them, but they also like to snuggle up to one and another, and they get cozy with one and another, all snuggled up, suddenly, before any one new it, pwoop, and they make a baby organ or creature who looks like mommy and daddy.

Organ creatures of course can sexal, because if they could not, they could not make baby organ creatures. Organs can sexal just like human beings can sexal, but they sexal in their own particular ways. They like to sexal, just like human beings like to sexal, and they also go ouch, when some one or some thing pokes them, or pricks them, such as the doctors needle at the doctor's office.

Each nerve cell is built with all the organs it needs to survive, and each organ is built with all the organs it needs to survive. The number of organs in the human body is almost limitless, but not quite limitless, as you can still count them, all, if you have the time.

Brains And Notational Thoughts

Each organ is a living being, or creature, with a brain, and with notational thoughts. Notational thoughts are memo types of thoughts, such as about, 'oh, boy, that sure felt good', or 'golly, gee, I am really bored'.

One notational thought, for instance, that is of use to you, is when you are in need of water, and you begin drinking water, when you get the feeling that you need lots of water, and you get a message to your brain that you are in need for water, because you know you are low on water, and almost out of it, well, the inspirational thought that tells you, "keep drinking, keep drinking, you are too low on water" that is an inspirational thought, that your tummy and its brain is passing on to an area of your conscious mind, where you can then pick it up, and then act on it.

There are many kinds of notational thoughts organs can have and organs can pass on to our 'brains'. Organs, as living beings, also do lots of chit chat with other organs, not only with the organs inside of your own body, but also with the organs inside of the body in other animals. Brains are brains, and they are very smart, if they are to do the duty they are assigned to do, which requires them to be smart. They are so smart, they spend a lot of their time, communicating and chatting with other organs, to see if every one is alright, and to find out what the latest gossip is. They can do many things, and that is the topic for another time. But one thing they can do is talk to each other. They have their own languages, they speak to each other with. Did you know that? I bet you didn't. If you are a Lesbianist, you may probably know this, as you probably studied about it, in your school days. Some kids, five or six years old, study these things, on planets, where education is up to the standard, that I set it at.

If we understand that brains are in every organ in the body, and some organs, have multiple brains, almost all of them do, and if we understand that they are able to communicate to each other, than we can understand that the vagina is a living being, and it has a brain, and it talks with other vaginas, in other women and in other girls. The dick has a brain, too, and it talks with other dicks, and it talks with vaginas, as well, when a vagina calls to a dick, and asks it questions.

Feeding The Organ Kiddies The Foods They Need

We need to feed the body, many foods, not only tomatoes, potatoes, asparagus, meat, and fruit, etc., but we need to feed foods to our body for feeding the organ kiddies, the organ animals, the living beings, or creatures with brains, called organ kiddies who are inside of our body.

What are we doing when we feed the body? We are supposed to be feeding not only our face, loading food in that tastes good to us, and to our sensibilities, but we are also supposed to be feeding the animals that live in side of us, as well as, we are supposed to be feeding the organ kiddies, who also need food to stay alive. We also need to be feeding all of the other animals kiddies, the living creatures of various kinds, that are living inside of our bodies. Most organ kiddies are on a starvation diet, nearly, and they survive on nearly only water. Some are lucky and get some pee and poopy juices from animals that live inside of our bodies.

Most of the organ kiddies are not lucky, and they languish, from day to day, with nothing to eat, and they hang on, and they do their best to perform for us, but in the end, they are defeated by our not feeding them, and they give out, and give up, and throw in the towel, and say, "To hell with it. I don't care anymore." and with that, they cancel their agreement to work with us, and they say good bye, and they then slowly perish, and as they do, so do we. We perish because we do not feed the organ kiddies in our bodies, and because we do not feed the cell kiddies in our bodies, and because we do not feed the amoebe kiddies in our bodies. If we feed them all, we would not die, and they would continue to live, properously, and progenerate, or give us babies, to take over the jobs of mom and pop, Sr., the first organ kiddies in our bodies, who want to work with us, and who want to be fed, while they work for us, when mom and pop, Sr. are near the end of their run, that is their work life, and when it is time to call them in to my Epcot Centers for them, for them to get their check up, and repairs that they need, to their brains, and to their nervous systems, and to relieve them of any undue or unwholesome stresses, nervous tension, migraines, and so forth.

You might be thinking, "This is a joke", but it is not a joke. You are completely wrong if you think this is a joke. If you feed the foods that organ kiddies like to eat, to them, they will become alive with activity, and they will work hard for us, and we will feel a new sense of vitality, and we will regain our good humor, to some extent, as it is a karmic issue here, as well, having a good humor, or a pleasant personality, and when it is time for mom and pop, Sr., organ kiddies to pass on the work load to baby Mac, and baby Sarah, organ kiddies, Jr., they will pass on the work load to them, and Poppa and Momma will retire and make their way, with assistance from their kids, and with assistance from my kids, to my Epcot Centers for them.

This is a complex topic to discuss, and I won't try to discuss it in full, obviously, as I am too stupid, and my brain is not working, and I can't remember every thing about it, obviously. But, you should know, that if you feed them the molds animals, the molds fruits and gardens produce, and the funguses they like to eat, and that they enjoy eating, and the other foods that they eat, from fermented mash, made correctly, and from molded foods, and from molded breads, molded chesses, properly cooked meats, and so forth, they will feed on the animals in that food that you prepare for them, and you'll get healthy, and they'll get healthy, and they'll live for three hundred to eight hundred to fifteen hundred years, or more, depending on which ones you are talking about, and they will work for you, with zest and vigor, before it is time to hand over the work load to baby Mac, and baby Sarah, organ kiddies, Jr.

If We Were Able To Be Born With "Owner's Manuals" For Our Body And Brains

We are not born with an owner's manual for our body and brains, etc. If we were born with one, we would be told that if we feed our body properly, the body will last us forever, and we will be able to live forever. This is the norm for the human body. It is not a 'dream' or 'hope', or 'wish'. It is merely the truth, and once you learn how to feed your body, and all of the animals and creatures inside of your body, you will begin to make all the animals and creatures inside your body, happy, and they will begin to work for you, as they were intended to work for you. They are all my worker animals, and they are here to work for me. I have many worker animals, and we will learn about all of them, and we will find those who we need to help us feed our bodies properly, so that we can all live in the body that we were born in, that is meant to last you forever, if your feed it and nourish all of the animals in it, properly.

If you do not feed my worker animals in your bodies, the nutrients, the animals and the plants animals and the foods that my worker organ animals in your bodies like to eat, that will allow my organ worker animals, and all of my other worker animals, to live with vigor and tenacity, strength and good health, they will not work very well for you, and in time, they will all perish, and so will you. I mentioned my worker animals in the molded foods, molded fruits, molded citrus fruits, fermented beverages, and so forth, that we will be making. They are all there in those foods that we will make, and then use to feed ourselves with, to then help feed all my worker organ animals, my worker cell animals, and other worker animals, that are in your body, and that need to be living in your body, working hard for you.

If you do not feed them the foods that they like to eat, they will not live for long, and they will perish, and die, and that will be that, and you will not have a chance for living more than a hundred or two or three hundred years, in that body of yours, if your karma is good, and if you were not being poisoned by the petro chemical industry, and the chemicals industries, and by the foods manufacturing industries, and by the pharmaceutical manufacturing industries. We will never hear the Lesbianists admit that they are intentionally poisoning us, but they are.

Once you find a way to survive on molded up, wholesome natural healthy foods, with no pesticides, and on water that is not chlorinated, and that is wholesome to drink, and after you learn the abc's of proper eating, to feed every one in your body, as well as you, then you will not die and you will begin to live forever.

The Lesbianists are afraid that you will learn to eat properly and then, when you begin to get your diet together, not only for your self but also for all the animals and organ kiddies in you, and for all the cell animals in you, or cell creatures, who are smart living beings, by the way, you will begin to be able to extend your longevity, and then, in time, you will be able to live forever.

If you stop drinking the poisonous coffee in the office, as I've explained about, previously, the Lesbianists make it with diesel fuels, and with gasoline, and with kerosene, if you stop smoking the poisoned cigarettes, if you stop using the plastics furniture, and other plastics products, if you stop inhaling the gasoline fumes kiddies that cause fibromyalgia, and fumes animals cause the sharp pains in the body as the fumes animals eat up and destroy the organ animals in the body discharging energies or electrical currents, as they mate, and as they sperminate, and vagicate, or eject female animal sexaling juices, like some jelly fish do, and like some deep sea snakes, and worms, that are lit up, with pulsing lights in them, when they mate, do. Fumes animals also cause arthritis, ligaments problems and diseases, and other health problems. If you stop inhaling the plastics fumes kiddies, which also give you fibromyalgia, arthritis, etc., and kill brain cells, and cause brain rot, Alzheimer's disease, and parkinson's disease, and a number of other illnesses, and if you begin to eat properly, in accordance with the proper rules for diet, that our body and brain owner's manuals would explain about, if we were to be born with these manuals at the time of our birth, then, you will begin to get healthy, and you will begin to live forever.

So, good luck, and do not vote for Hillary Clinton, or any of the other presidential candidates, and if you see them, give them a beaver cheer, some people call it a 'Bronx cheer', and the noise you make sounds like someone farting in their direction. That may sound childish to say, but it is what the Lesbianists deserve as you are being played for a fool, every day of your life, and you should snap out of it, and do some thing about it, as soon as you and your friends can get it together to begin sexaling, in the ways I've explained about.

Duplicator Tests

In a duplicator test, there is one strand of a piece of the body, and you take that strand, and with medical and scientific technologies, you attempt to make a copy of it.

Why do they make a copy of a strand of a piece of a human or ape, monkey, dog, or cat, etc., body?

To test for various possibilities as to who the strand came from and how the strand came from the source, and what has happened to the person, if it was a person, if the person is no longer here to stand in for himself or for herself, in the case of a missing person, for instance.

What is meant by a strand of a piece of a human, etc., body. Usually, a piece of flesh is a good place to start. A clipping from a person's finger nails, can be duplicated, if the sample is tiny enough, and it can be analysed, and then compared with an original shard or piece from a person's finger nail, a known subject's finger nail, and then a match up can either be made, or not be made.

Human blood cells can be duplicated and matched. Human skin tissues can be duplicated and matched. Human organ tissues can be duplicated and matched.

These matching tests are in fact, one example of a organ animal giveing birth to a baby organ animal, or to a number of baby organ animals.

I'm not sure what they call the test, in the laboratory, but that is a duplicator test, in my vocabulary, and it should be a simple test that all county, municipal, and other police medical technical labs, forensics labs are capable of performing.

This example of a matching print from the one strand of a piece of the body, is an example of organs animals, giveing birth to baby organ animals.

Red blood corpuscles, are often tested, in this manner, I believe. A corpuscle is an organ animal, and it will give the same results, and you can make baby blood corpuscle organ animals.

A high school, or jr. high school science lab technician or teacher, or in some school labs, including jr. college science labs, and technical labs at medical technical schools, teaching assistants, should be able to perform this test as it is a simple test to learn how to perform, and even off duty police officers, are taught it, in their free time, for fun, or for advancing their career. Licensed Practicing Nurses (LPN's) generally know about this test, and so do all doctors as well as your general medical school student, and two year college, or four year college, nurses course students. Botanists know or should know this test, and there are many professions where in this test is common, such as in paleontology, the study of human remains, bones, and so forth. I don't know what people on this planet, understand a paleontologist (Note: 'paleo-entologist' I think may be the correct spelling, but I'm not sure) as, but in my vocabulary, as it is comming back to me, a paleontologist explores and investigates old bones, fossilized bones, old grave sights, and so forth.

Elementary school students, and maybe some kindergarden school students, in advanced kindergarden schools, such as in Japan, and in Europe, and in different countries around the world, can do this test, if their science lab teacher lends them the technical books, and tools to take home, study, and then show the family and parents, how a duplicator test is done. It's not a difficult test to perform, if you can read, and if you know what a beaker is, and so forth.

This will give you a start for the search for proof as to whether or not there are organ animals in the human body, and in all animal body's and in all living being's bodies. It will provide proof that organ animals, once you've identified them, can in fact give birth to baby organ animals.

There are a number of types of duplicator tests, lab technicians perform, in their day to day job routines, in medical labs, and the duplicator tests are generally for making comparisons, of one type or another, or for one reason, or another. They all give the same results, they provide you with proof that organ animals do exist in the body, and that organ animals do make babies.

Sexaling With Family And Friends

Sexaling with your family, relatives, trustable neighbors, and so on, will help you to begin to erase your karma, if you begin your wholesome, purifying, and holyfying sexaling with your family, relatives, kin, trustable neighbors, and others who are trustable. As you erase your karma, little by little, you will begin to get better karma, and you'll begin to be able to get rid of these Lesbianists who make fools of all of you, and who toy with you, one life after another, as you go into my Epcot Center, and then come out again, as a tummy baby to a tummy mommy and to a tummy daddy, on a fairly predictable basis, meeting up with your former friends and colleagues, over time, and then going through the six, or ten, or twelve, or forteen, or sixteen, etc., years of schooling, each time you come out, to lead a very short life span, with, once again, all of your organ kiddies and other animals and living creatures in you, nearly starving to death, the whole time you are out here, with your friends, playing, golf, swimming, playing tennis, football, entertaining the Lesbianists, and so on, until it is funeral time, and then back, once more and into my Epcot Center, until a new tummy mommy and a new tummy daddy, are waiting and ready for you to come out again.

This is not a joke, I need to repeat, and you should start thinking about doing something to bring a stop to this abuse of your organ animals and other living creatures in you, and to bring a stop to the abuse of you, by the Lesbianists who will not tell you how to do any thing that is good for you and that is good for your health.

Massaging The Butt Hole And Shank

If you work massaging the butt hole for a few hours, fluids will begin to form, and the tissues of the shank, and of the butthole, will become more pliant. They will become stretchable, and they will, after a number of hours of massaging the butt hole, and the inside of the butt hole, little by little, as you insert a dick up the hole, as it gives way, and becomes more pliant, after a few hours, or so, it will soon be able to become opened up completely, and a dick can then be inserted and the shank then becomes a sexaling tube.

On the end of the dick, there is a 'pooper scooper', or head level scoop pipe. The head level scoop pipe is the peculiar shape of the dick at the tip of it. This shape allows you to insert the head of the penis into the butt hole, and then take a wee wee, and then mush up all the food that is stuck in the cavity, and after a little mushing up of the food in the tummy pipe, or shank, you can then begin to scoop it out, little by little, with one dick shovel head, after another.

After seven or eight dicks, to twelve to thirteen, or so, on the job, pumping, and peeing, and scooping out the poop, and ejaculating, as well, you can eventually scoop out most of the poop from the shank. Some may remain near the top, so a few more pee pee's into the butt hole, will help wash out the tummy tube, and it will become clear and free of digested food matter.

The large and small, i.e., the meaning or intent of this paper, or note, is to let you know that the poop hole is a sexaling organ, and that the poop tube is a straight tube, and not a twisted up, bundled up, chimpanzee, or oselot guts piping, or bear guts piping, or horse guts piping, or pigs' guts piping, or cows' guts piping, as the medical community, would like to have you believe, along with the hoards of bible thumpers, who colluded with the Lesbianists of the medical community, to keep you in the dark ages.

You are being played for a fool, every day of your life. If you can allow the Lesbianists to make a fool of you, every day of your life, and if that is alright with you, than go right ahead, and play their game, and let things stay as they are, but if you are not willing to allow them to make a fool of you, then you had better get busy, sexaling, and so forth, as I've already told you what we need to do, to help bring about the changes we need to make.

Sending Hillary And Obama On Their Final Rides

A vote for Hillary Clinton for president is a vote for stupidity, on your part. A vote for Obama for president, is a vote for stupidity, on your part. Now why doesn't somebody kill Hillary Clinton, or Obama, or both. I just do not understand. Do you? I don't.

Next time you see Hillary, you can ask her if you can open up the front of her chest cavity, and take a look inside to see if she has a shank, as I described it, or if she has a twisting and turning, animal type set of guts, like many animals do. I think you'll find that she has a 'shank', and not a twisting, turning, animal set of guts.

All human beings have shanks, and not one human being has a set of 'animal' guts. Human beings have shanks for fuckaling, that is, butt fuckaling, but no one, except the Lesbianists, know about it, and as a result, no one ever thinks about butt fuckaling, as a type of sexaling enjoyment, and a sexaling past time.

Explosives To Kill Hillary Clinton, Obama, George Walker Bush, Jr. Barbara Bush, Jr. And All The Congressmen and Congresswomen, And All The White House Staff, Etc.

Well, I have told you about many bombs you can make, on my web site, and I suggest you begin to think more seriously about taking out Hillary's cavalcade of automobiles, next time she is riding through Washington DC. Or the next time you see Mr. Obama, please consider blowing his cavalcade of cars and limousines, up and out of the upper solar atmospheres, with the bombs you can make, as already explained about, in my notes, on this bulletin board.

After you blow them up into bits, and pieces, they will be fine, as they will soon be coming out of my Epcot Center, as tummy babies, and they will be two less threats to the ordinary and normal people on this planet, for some time to come.

A Note On Hillary Clinton, George Bush, Jr., Barbara Bush, Jr., And A Number Of Other Lesbianists

Before you blow up Hillary, find out if she is with us, on this, or what. I think Mr. Obama is not with us, yet, but it may be the case that Hillary Clinton, along with a lot of her friends, is now on board, and she is hoping to set sail with the rest of us, but is not quite able to break away from the Lesbianists' and their organization, since she has been a friend with them, and a member of their organization for umpteen millions, billions, trillions, and zillions, plus years, since long before they ever even came to this planet, to settle it. These people, Hillary Clinton, and a number of her friends, are ready to make the change over, but lots of Lesbianists are not ready to make the change over, and so Hillary Clinton is kind of stuck, and so are all the other Lesbianists, who want to make the change over, and who want to say good bye to their former organization.

In any case, this planet is crawling with animal people of all kinds, as I've mentioned, and it is a very unpleasant situation, and the Lesbianists know this, as most of their membership has already been eaten up by animal people, and there are many types of animal people. Many of the animal people who ate up the Lesbianists below ground, are walking around, as they imitate, or take on the form of human beings, after they eat one. Not many of the original Lesbianists are still alive, down below the surface of this planet, in their underground cities, as I've recently learned, as most all of them, close to ninety nine plus percent to nearly one hundred perecent of the Lesbianists down below the surface, have already been eaten up. There are still a lot of Lesbianists down below us, below the surface, but compared to the numbers of them who were there, before, there are fewer, now.

What To Do, Now?

I thought my kids were ready, with an underground system of 'safe harbors', but it seems there is a delay, and I'm not sure when the delay will be resolved. Until it is resolved, I guess we are stuck where we are. So, the only thing to do is to get the government to make the needed changes, and to step up to the microphone, and denounce the Lesbianists organization, by telling every one that it exists, and that we will now build a one world, government. When the politicians decide to do that, and when we begin building a one world government, then maybe we will begin to see some resolvement to this situation.

I have some more ceremonies to do, and I have a lot of time to wait, till we see a resolvement to this situation. The additional ceremonies will assist us in making a safe harbor, as far as I have heard, that is fully integrated, and that has all the protection and safety systems that will be needed. All the different components to the fully integrated system, for covering our immense universe, all at the same time, are not available, yet.

There is a lot to learn, about who else lives in our universe, and about where my kids live, and about what my kids do for me, keeping my universe running for me, along with a lot of other information, for you to get and read, and then understand, about my kids.

As soon as the local, or federal governments around the world release the software that will allow people to upgrade to the 'Managing My Universe' software upgrade, from the databases, that are located in the underground bunkers the Lesbianists used to use when they first arrived, and when they were in the 'sexaling for a living' program, which all of them were in, when they arrived. These databases are also located on other planets where there are bunker systems, and where there are communities of people, who are in the 'sexaling for a living' program.

Also, once the 'Managing My Universe' program software is released, and once people start using it, and once they set up their own network, that it will run on, and once enough people are running that software on their computers, we can have a partial soluition to the problem of the animal people, as well as a partial solution to dealing with Mormons, and Clerics, and Protestant leaders, who believe in "Jesus Saves" and other such useless nonsense.

I think the Jesus Saves group, i.e., Christianity, the Mormons, Protestants, Lutherans, Catholics, Presbyterians, and so forth, is built on Islam, and on Judaism, or rather, on one of the schools of Judaism, plus maybe some other things, made up, or grafted from other religions that were primitive religions, such as Voodoo cults, and worship of the dead cults, as well as other cults, and they were all squished together, and the result was, "Christianity", but that was after all of my teachings were clipped out of the two above mentioned religions that I had taught.

In any case, not a one of them has a clue that sexaling is a 'purifying' activity, and women and their sexaling bodies are like 'purifying' engines, or washing machines, as I've mentioned before, and men and their sexaling bodies, are also capable of becoming 'purifying' engines, and washing machines, though we all have our karma, and it will be a while before we erase enough of our karma, to make a difference, for some of us. That means, some people are better able to sexal than others as their karma for sexaling is better for sexaling than the karma for sexaling of others. We have a lot of karma to erase before we all begin to pick up enough steam to get any where, sexually speaking.

I think that is the general situation, for most, but there are some people who are more gifted than others, and there are some people who are, when it comes to their sexaling capabilities, generally speaking, fine.

With the use of aphrodesics, fruits that we can grow, that must be taken off the 'banned' foods lists, vegetables, nuts, and other foods that also are useful aphrodesics, that must also be taken off the banned foods lists, we will be able to make better progress. Sessame seeds can mold up wheat bread to make a nice aphrodesic, from what I've heard, and I will give it a try, one of these days, as I'm busy, molding up a few other things, first, sort of for experimentation, as this is all new to me. Peanuts supposedly, might be aphrodesic, once you mold up wheat bread with them. I believe they have minor pain killing properties, as well. Dark green garbanzo beans, sold in Indian food markets, also mold up wheat bread and are useful as aphrodesics. White bread is too poisoned to consider for use. Please use only whole wheat bread, or a bread of fine quality. Do not use white bread or normal white french bread, as the flour used in making them is treated with bleaching agents, that are poisonous.

Compliance With The General Terms Of Their Settlement Agreements

In any case, we need all the laws changed, as I've mentioned about, before, and we need the governments to form a united, single planetary government, and we need every one to begin to get the information they need, and the assistance they need to begin to cooperate with each other, in science, and in agriculture, and farming, etc. We need to ban pesticides, the use of petro-chemicals in the manufacturing industries, the promotion of natural fibers, and natural oils for manufacturing, and the switching over to non-polluting, hydrogen based technologies, and so forth.

We also need the volumes of Greek literature released, as well as all the other literature, that needs to be released, that the initial settlers of this planet, were given, to use to set up their planetary government, with.

When we start to see that these and all the other neccessary steps are being undertaken, in an effort to accomplish them, we will be in a better situation to begin to see a resolvement to this situation. The Lesbianists do not like to be forced into doing things, but in this case, there is no other way of getting these things done, and so if we need to force them to get them to move off their fannies, and get their butts in gear, than we will have to do just that.

We need the Lesbianists, and all the other groups of people on this planet, who legally, or rather, legitimately settled this planet, but who are not in compliance with the terms of their settlement agreements, get into compliance, and the sooner they get into compliance, the sooner we will have a resolvement to this situation.

Persons Who Wish To Participate In The Previous Sexaling For A Living Program

I have talked about the previous sexaling for a living program, that people were signed up with, a long time ago, when they first settled this planet. I mentioned the underground bunker systems, that my kids still keep for eligible card carrying members. I suggested that there might be people who died, and after they came back from the Epcot Center, they no longer knew any thing about the 'sexaling for a living' program, that they were affiliated with, and they forgot that they were a valid card carrying member of the program.

Even though these people, may not remember that they were once in the program, since they don't usually bring that information with them, when they are tummy babies, in mama's tummy, these people, if they wish to get back into the 'sexaling for a living' program, that they were once a participant in, they may write a statement, and state that they wish to get back into the 'sexaling for a living program'. They need to sign it, and press their energies into it, just as I explained, about, before. For example,

Affidavit

I, ____name____ would like to get back into the sexaling for a living program, that I was an active participant in, previously, and that I continue to belong to, as a valid card carrying member.

Signed: (signature)
Date: (Date)

Then, press your finger, or thumb, or elbow, or toe, or nose, or lips, or palm into the paper you wrote, above your signature and date area, and make sure you press in your energies, as well as you can, and that should wake up my kids, and get their attention. When my kids have verified that your request is legitimate, they will buzz you in, or rather, teletransport you into the underground bunkers, that still exist, in many places, on this planet, and under the surface of this planet. These bunker systems exist on other planets, as well, and so every one who is qualified, no matter where they are, and no matter what planet they are on, can get back into the program, so long as my kids authorize and approve their request for entry into the program.

This will get you started. You have to be certain, that you wish to start off, again, and that you are sincerely interested in getting back into this program, to sexal for a living, in accordance with the rules and guidelines of the original program.

Once you are in the original program, now as a participating member, you can begin sexaling for a living, and you can also, begin to study about the new 'sexaling for a living' program, and the 'managing my universe' program, and the other programs that are now available, in the Gurkian Age. There are introductory courses for people who are not familiar with the program, and your questions will be answered in the seminar like introductory courses.

Once you decide to join with one or more of them and once you decide to get into the Gurkian Age Religious Revolutionary Movement, and then begin sexaling for a living, as you get fit, and healthy, by your participation in these and other activities, as well, such as the club activities, as I've mentioned about, before, so that you can sexal more adequately, and robustly, for, eventually, days, then weeks, then months, then for years on end, without tiring out, too much, and in between sexaling activities, you will have lots of other activities, such as the club activities, to vary the pace of your life, to make it more interesting, and more engaging, by meeting with lots of people in the clubs, and by learning about these people, and by sexaling with them, once you've decided you would like to join, then you can switch over to the new programs, in the Gurkian Age Religious Revolutionary Movement, and get started when the facilities for them, are constructed by my engineer kids, and by others of my children, who will be helping them.

When we have all of the facilities needed, the new programs will open, and you can switch over to the new programs and my kids will help you with the paper work to transfer over your membership to the new programs, in the Gurkian Age Religious Revolutionary Movement.

Qualified Card Carrying Members

Some of the people who I've mentioned before, such as Jodi Foster, Jennipher Lopez, Madonna, Angelina Jo-li, Jack Nicholson, Angelica Huston, many actors in the New York actors' guild, many members of the west coast actors guild, and many members of actors guilds around the world, and also, many members of dance troups, and dance guilds around the world, singers, musicians, entertainers, members of the military, members of law enforcement agencies, and so forth, many of these people, and others, as well, are qualified as valid card carrying members of the original sexaling for a living program, that the initial members and follow up members of the out bound programs for the settlers to this planet, were all a member of.

Even if you do not think that you could possibly have been a member of one of those out bound settler's programs, you may have been one, and if you write an affidavit, in the form as I've mentioned above, you may find that in fact, you were a member of the out bound program of settlers to this planet, or, you may find that you were a member of one of the other out bound programs, to other planets, and you may find that you are still a qualified, card carrying member who is entitled to rejoin the sexaling for a living program, that you were once a member of.

How is this possible? How can you still be a valid member, after all this time? Well, it is just that we need to get you started, and so these facilities, the underground bunker systems, that I've mentioned about, before, are there, and I was told by my kids, that you can make and sign a statement, or an affidavit, in the manner in which I mentioned, above, and that will be all you need to do, to get back into the program, you were once in. We are extending the time limit on the previous sexaling for a living program, as a short term measure, to help get things started up, again.

Zealot

Joining the original program, applies to all valid card carrying members, whether they currently know they are with an out bound settler's group, or not. That means, that Ms. Hillary Clinton, can get started up, again, as the time limit on the program has been extended, and so can Mr. Bill Clinton, and so can Chelsea Clinton, and so can all of the other people, who prefer to consider them selves as 'radicals', and they prefer the term, 'Zealot' as in, a person who has a lot of zeal for living, to the term, 'Lesbianist'. So when you see some one you might recognize as a possible 'Zealot' it is polite to use the term, 'Zealot', and not use the term, Lesbianist, as 'Lesbianist' has too many negative feelings attached to it, and people might start using it as a way to make others, angry.

You do not get points, for starting fights, or for getting other people angry at you, for teasing them, and so forth. So, let's all behave, and let's all get into the program, those of you who are eligible, and let's go from there. If you have a friend, who might not be eligible for the program, you can make an application to allow the person into the program, and then my kids will approve it. The person will then get accepted into the sexaling for a living program for the out bound settlers.

Captain Off The Bridge.

John Francis Ayres
GOd
And Children

What Is Tin? - How Many Elements Animals Are There? - New Sciences - Professional Moldists - My Working Children And Where Are They? - Different Jobs For My Different Groups Of Children - Advantages To Living In This 'Central Bus Station Terminal Building' Universe - Getting Into Compliance Of The Outbound Settlement Program - The Planetary Government And The Laws For The Citizens Of This Planet - Sexaling Professionals - Wedding Arrangements - Informing The People Of This Planet About The Terms Of Compliance - Building The Infrastructure, And The Needed Facilities, Etc. - Molding Up Bread And Metals Animals, Etc. - What Will Be Your Main Jobs From Now On? - Getting Busy, Cleaning Up, In The Gurkian Age - Taking The First Steps Towards Resolving Cooperation Issues - Air Raid Shelters And Play Time 'Fetish' Sexaling Underground Dungeons - Becoming Trusting And Loving Friends With Each Other - Unflattering Love - The Importance Of People's Rights To Freedom And Their Rights To Freely Choose The Course And Direction Of Their Lives Updated: 28-06-07 Rev.c 16:51 PDT

What Is Tin

Tin ore is a metal ore, and it is found in cassiterite, as listed in many books, and it is also found in iron pegmatites.

Iron pegmatites are its chief source for supply of this mineral ore. It is like gold, or barium, or silver, and it is found in many pegmatites.

What is barium? It is a mineral that is found in steel ore, or iron ore, and it is a tough metal, and it is very strong, with great tensile strength.

What are pegmatities?

Pegamatites are large stones that contain mineral ores.

A pegamatite ore stone can be found in silver deposits, and in gold deposits, and in many types of mineral deposits.

Pegmatites are generally found with quartz, or a type of quartz, that is a pearly white in color.

It is a cluster of ores, of various types, and the ores can be any thing from silver, to gold, to iron, to boron, or cadmium.

What is boron?

Boron is a chief component of the metal industry, and it is used for making steel. It is found in iron deposits, and it is also found in gold deposits. Boron is a chief component mineral ore found in iron ore deposits.

What is cadmium?

Cadmium is also a chief component of the metal industry, and it is found in large quantities, when found with silver ore, and with iron ore, and with gold ore, typically. It is a shiny grey ore, and it is very useful for making steel stronger.

The processes of melting tin ore out of cassisterite, is a difficult process, but the Lesbianists use it to help confuse people about what tin is. Tin is chiefly found in metal deposits, or metal bareing loads, where there is much iron ore, and steel ore.

Steel ore is similar to iron ore, but steel ore is stronger than iron.

Iron is a little brittle, and with out the use of steel ore, and with out the use of other ores, to stiffen it up, iron ore is a poor choice for durable, pots, and durable cast iron statues as it will fragment, very easily, and it turns to dust, if scraped with a strong hardened steel knife blade.

The home hobbyist, or workshop metal smith, as seen on PBS, the small sized smelting industry, as seen in a recent Las Vegas PBS program that touched on metal smithing, makes a big deal out of white metal, and that is iron, basically, the real brittle metal that comes in through the metal smith's doors from people who own statues made of iron. That brittle metal, if scraped with a knife, will start to shatter, and fall apart, and the metal smith was saying, he could not weld any thing to it, as it would just keep coming apart, layer after layer. That is iron ore, and it is different from steel ore.

I suppose the Lesbianists' made up the periodic table of elements to help confuse scientists, and it does not jive with reality, and the metals animals minerals animals, elements animals, and other animals, that we have in our environments. The Lesbianists periodic table of 'elements' does not help to describe the many types of 'elements' animals and other animals that we find in our environments, under the ocean, in the forests and jungles, under the ground, or in the deserts, and so on.

How Many Elements Animals Are There?

There are so many elements animals, you will take many years to study about them all, if you decide to study in depth about them. Maybe it will take several hundreds of years, to learn about some of the things about them. If you wish to study about all the mineral animals, metal animals, elements animals, and other living animals that are in my many universes, it will take you a far greater amount of time to study about them all.

We will have courses for you to study about them, once we set up our new civilization, and once we get around to setting up the many other new civilizations, that will all be patterned after our civilization, that we will be setting up, shortly, with the cooperation of the Lesbianists, the Zealots, and their many other outbound planetary settlement groups radical friends.

New Sciences

Elements animals are many types. There are thousands, and millions of elements animals, if not more, maybe many times more, into the kazillions, plus many times more, I think.

Just like animals on the ground, or in the ocean, or in the fresh water lakes, or in the sky such as birds, or in the lagoons, or in the swamps, and so forth, there are untold, countable numbers of different animals.

However, the elements animals are very far greater in number, than the animals we can see with our eyes.

Animals of all sizes, and some of them are very tiny, exist in huge numbers, all throughout my universe.

Tree animals, and plants animals, we learned about recently, the drafts babies, and the wedger mama's, they are in each and every plant, and they are different from every other type of plant animal.

There are quite a large number or plants, and flowers, and bushes, and sea weeds, though we don't see sea weeds too often, or kelp plants, but there are lots of underwater plants, but perhaps not as many as above ground plants, as we have destroyed our environments, and in the ocean, the oceans are so polluted, not much grows in them, any more.

Elements animals are very large in number. So are molds animals. Molds animals are very large in number, but who is there more of? I don't know, but maybe with all the different types of molds there are, there may be more molds animals, than there are elements animals, but it is a close call, I think.

But maybe not, as there are so many types of animals in molds, maybe the animals found in molds, are far greater than the number of animals found in elements.

Anyway, I suppose molds animals, if we look closely at all the different types of molds there are, with a microscope, will far out number the number of elements animals.

Never the less, there are a far greater number of elements animals, than the Lesbianists are going to let anyone know about.

Why is that? It's because they do not want to educate people about the real world we live in. They want to keep us dumb, and stupid, so they can laugh at us, or at least, as dumb and stupid to them, anyway, so that they can laugh at us.

Well, it is a pretty unpleasant situation, here, because we have to learn what science is, and we have to learn the real sciences, and not the phoney sciences the Lesbianists teach.

My memories are not good enough to even begin to teach any thing, but any way, we need some Lesbianists, such as George Bussey, or Clint Eastwood, or Morgan Freeman, and Liz Taylor, and Mila Jovovich, and Mrs. Barbara Bush, Jr., and Mrs. Barbara Bush, Sr., and Mr. George Bush, Sr., and Mr. Ronald Reagan, and Mr. George Bush, Jr., and their radical friends, to teach us the real sciences, along with the rest of the Lesbianists, or Zealots, all of them.

Not a lot of them will want to comply, with that, but we can get some of them to comply, if you make friends with them, and then invite them to your houses, and sexal with them, and make them your best friends, and your sexaling partners. The longer you remain friends, and the longer you sexal with each other, the more compliant they will become over time.

That's the best way to get the Lesbianists, or Zealots to become your friends and then have them teach you stuff, about molds, and science, that you didn't know about, before. As you learn about science, you will learn about making molds, using different methods, and then you can learn how to feed your body, and then you can learn how to feed all the organ animals in your body, a proper diet, and then you can live forever.

If your organ animals all get the foods they need, you will have many happy animals inside of your body.

Professional Moldists

Lesbianists are all professional moldists, and they all have the capability to teach people how to mold up any thing that is worth molding up. They study for millions, and billions of years, and even longer, in some cases. They get their professional degrees, and then they qualify for the outbound settlers' program, and then they go off to settle a new planet, that has not very long ago, recongealed, after it was last smashed apart by a passing sun, or large planet, traveling at a very high rate of speed as it smashed into it, or as it smashed into something, such as another planet, or even a sun, nearby.

That can be very catastrophic, and not many people will survive, and many planets in the vicinity, will shatter to pieces, when a sun or large planet is hit by direct impact, by a large size planet, or fragment of a large planet, or a sun, or fragment of a sun, traveling at a high velocity, near or even past the speed of light.

The shock waves that go shattering out, in wave after wave, will destroy every planet and sun, for a long ways around.

This happens, some times, and the planets and suns and moons, are reduced to dust particles, and after some time, they begin to recongeal, as they go spinning around due to magnetic waves that affect them. After spinning in various formations of circular movements, they eventually recongeal into numerous planets, and many different sized suns. Lots of moons also form, and you have the birth of a lot of new planets, that need settleing.

We always send out people to settle the new planetary systems that need settling, who are most qualified, to establish and lead a new civilization, that they must construct, as a part of their agreements, for their being selected to settle the new planets.

This is how it is typically done, and so we get the best and the brightest, and after their certification, they go out to settle a newly formed area of planets that are habitatable.

We send out many groups, one after another, of highly qualified people. Hulk Hogan was one of those people, who came in a different group of people, but he is friends with the Lesbianists, and he supports, more or less, what the Lesbianists are doing. There are a lot of Hulk Hoagan's friends, who also came and settled this planet, in one or more of the out bound planetary settlement groups.

We need Mrs. Barbara Bush, Mr. Hulk Hoagan, and all of their friends, including Hillary Clinton, and Mr. Obama, to get into compliance with the terms of their agreements, that they initially signed onto, and penned their names to, so that we can get further aide from my children.

My Working Children And Where Are They?

My working children take care of the support work, once the settlers in the out bound settlement groups are in agreement with the terms of compliance, of their out bound planetary settlement program.

How this is done, takes some explaining, but it is fine to leave it as it is, for now, as it will take a lot of explaining to do, to let you know exactly how every thing in my universe is set up, and where all my kids are living.

There are multiple dimensions to this universe, and I weaved together this universe, in such a way as to support the activities of my kids, and at the same time, support the activities of other groups of my kids, living in different dimensions, and at the same time, support the activities of us, living here, in this large universe of ours. This is the central area for us to live, and we have a different job, as it turns out, and that is to purify our universe that we live in, for eternity, so that we can all live in all the universes I have made. There are many universes, too small for you too see, as you are just too big to possibly see them.

I also made many dimensions, and weaved every thing together, in such a way as to support the religion that I am now going to teach to you, over time, and that you are all going to learn about. You can decide for your self if you wish to practice my religion or not, but your practicing my religion, is essential for us to have a nice place to live in, for eternity. That also includes all of my kids.

Different Jobs For My Different Groups Of Children

We have a lot of different jobs to do, my kids, and you, and to keep every thing running smoothly, we must practice my religion, that I am now begining to wake up to and learn about, as I come out of my condition of amnesia, and that I am now begining to practice, in my apartment.

This is how I planned, it, with me waking up, and coming out of my amnesia, and then, over time, introducing my self to all of you, as you all begin to practice my religion.

We will be here for eternity, and it is our job to purify our universe, and to erase the karma, that is a continuous problem, for all of us. There is much we must understand about how my universe is built, maintained, and run or managed. All of my kids make karma, and to keep this universe running properly, we have to divide the karma up, into manageable sizes for each one of us to bare. We are in the best location, here in this universe that we live in, and it is our responsiblity, because we it is our job, to keep our universe pure by practicing my religion.

Advantages To Living In This 'Central Bus Station Terminal Building' Universe

There are lots of advantages to living in this universe, the 'Central Bus Station Terminal Building' universe, that my kids do not share with us, as they live and work in their many, tiny 'Bus Station Terminal Building Support' universes, to support what we are doing, in this 'main' universe. There are lots of things that you can do in this 'main' universe, efficiently, and effectively, that you can not do as well at, in the tiny universes that my kids live in.

The list is long, but one thing is, taking karma, and figuring out how to deal with it, and then dealing with it, efficiently. Another thing is, balancing out karma. We need to balance out karma, to keep every one and every animal alive, thriving, and well, and we can effectively balance out karma, in this 'main' universe, better than in the tiny universes that my kids are living and working in.

With my religion, that we will begin, soon, to accept and practice, some of us in our universe, and in time, more of us, and with my kids practicing my religion, along with us, but in their support network of tiny universes, and more needs to be explained about the support network of tiny universes and what my kids are doing, as they work in them for keeping things running smoothly and harmoniously, we will effectively have a way to balance out karma, much better than ever before.

Practicing my religion is also good for erasing our karma, and we can more effectively erase our karma, and keep things running smoothly, for our 'main' universe, as well as for all of the many support universes, that my kids are living in and working in, and that we need integrated with our 'main' universe, to allow us all to live in this very big universe of ours, which includes and is central to all of the other many 'tiny' universes and central to all of the other living areas, that goes on, beyond the walls of this universe, in all directions for almost nearly infinity for all practical purposes, that I have for all of my working kids to live in and work in, supporting what we are doing in this universe and supporting, in an inter networked and inter connected manner, what they are all doing, in their universes, and living areas, as well.

My human being kids all have jobs, and so do all my worker animals, and I have lots of working kids, and I have lots of worker animals of all different kinds.

You and I, who are in this main 'Central Bus Station Terminal Building' universes, are the only ones who do not have jobs assigned to us. Therefore, we are all going to work, forever, from now on, at practicing my religion, and this will be our primary job, for keeping our universe running, and for keeping all of my kids universes and living areas, running in proper order, as we erase the massive amounts of karma that need to be erased and as we balance out the massive amounts of karma that need to be balanced out.

This is a difficult and lengthy topic to discuss, and so I'll have to leave it for another day. Sorry.

In any case, we all must have a job, all of my kids and I, and now, of course, you are all going to join my kids, whether you like the idea of it, or not, and begin working for me.

Getting Into Compliance Of The Outbound Settlement Program

Mrs. Hillary Clinton, Mrs. Barbara Bush, Jr., Mrs. Barbara Bush, Sr., and all their friends are now going to have to get into compliance with the terms of their aggreements for the outbound settlement program. Once they do that, we can begin to get things started, for the rest of eternity, with you practicing my newest religion.

This religion will take the best from each of my earlier religions, that I taught, and combine all of the best of them, into this one. There are also some other special features to this religion, and we'll learn them over time.

In any case, we are going to place women in their rightful place, above men, and we are going to place men in their rightful place, below women. That's one of the main things that we are going to achieve with this new religion. It was never a big issue, before, in I think maybe most of my religions, if not almost all of them, where women stood in relation to men.

Anyway, we are going to get an understanding of the fact that there are two races of people, and one of them is the female race, and one of them is the male race.

That's one of the primary things, that we are going to get straightened out, now, with my religion, with out ever getting it confused, again, for the rest of eternity.

In any case, we need all of the friends of Hillary Clinton, Bill Clinton, Chelsea Clinton, George Bush, Jr., Barbara Bush, Jr., George Bussey, Mila Jovovich, Bruce Willis, and of Hulk Hogan, and of all of the other people who came in the original outbound planetary settlement groups, who are still here, and still alive, and who still remember that they all have planetary settlement agreements to get into compliance with.

Unless they do that, there is not much we can do, except wait around until they finally do decide to get into compliance. They must then take the neccessary steps to inform every one, about the facts of this situation.

The Planetary Government And The Laws For The Citizens Of This Planet

Until they do that, we can not get much work done, as all the laws, and the way the societies on this planet are set up, will not work for us. Nudity and nakedness must be permitted, and so must public sexaling. All forbiddance laws must be dropped, and all laws on behavior, and the types of plants people can eat, and so forth, must be all dropped.

The sets of laws that are the basis of the outbound planetary settlement programs must be then instituted. The governments that the Lesbianists have set up, must be dropped, and one planetary government must be formed with those laws as the foundation for all of the citizens of the planet.

Those are the first steps that we must take. After that, we will get and have the needed arrangements, to set up my religion, globally, so as to make it accessable to every one.

We are also waiting on the release of the software and operating system, that I released to the FBI, through their twenty four hour a day, audio and video surveilance of me, which I've talked about, before. When that software and the operating system are released, we can begin the 'managing my universe' program, and the 'sexaling for a living' programs, that will then be instituted, after the Lesbianists and their friends, get into compliance with the terms of their agreements.

Once they get into compliance, and once we get the software from the tapes of the video surveilance, we will be able to institute the 'managing my universe' program, and the 'sexaling for a living' programs.

Until then, there is not any hope for any meaningful change. So, until then, please make friends with the Zealots, or Lesbianists, and their friends, and become good sexaling partners with them, and get them to teach you more about the real sciences, and about molding sciences, etc., and make good relations with each other. It may take some time to get their attention, and to get them to begin to accept your offers and invitations to your homes, or to their homes, on occaision, for sexaling sessions. After sexaling for several weeks, non stop, they will all become more pliable, and more compliant, and they will begin to loosen up, and then open up and talk about things, as you all begin to learn to trust each other, and to treat each other with care, consideration, and respect. You can then begin to build on your understanding of each other, and your relationships with each other, will begin to blossom.

Sexaling Professionals

The Zealots, and their friends are professional sexalers, so they can teach you many things and secrets about sexaling, that you may not know about. You will make good bed partners, and after some time, you can learn lots of things. There are cures for herpes, of course, and for genital warts, and for all venereal diseases, and so forth. These

Zealots, the Lesbianists, know all about them, as they had to study all of that stuff, to get qualified and certified for the outbound planetary settlement programs. You will also be able to learn proper diet techniques so as to be able to feed your body, and all the organ animals, and other animals, that are living in your body, and that you need to feed. You can also learn proper skin care, health care, and body hygene.

Wedding Arrangements

Currently, the way things are set up, with one person, a male, and the other person, a female, getting licensed to marry each other, will not work, under the new system. Thus it is neccessary to get into compliance with the terms of the outbound planetary settlement programs, so that the new laws will allow for multi person marriages. Multi person marriages, I discussed, before. Women and girls need multiple men and boys to sexal with, properly, as women and girls are very capable sexalers, once they learn how to sexal properly. Multiple person marriages will allow for mulitiple women and girls, and multiple men and boys, to marry each other. The current laws must be dropped, and the current governments must be disbanded. After that, the new government and the new laws will allow for multiple person marriages. Once multiple person marriages are allowed, after the new government is set up, then the sexaling for a living programs, will be instituted, as a part of the compliance terms.

Informing The People Of This Planet About The Terms Of Compliance

The Lesbianists need to inform every one about what the terms of compliance are, and they had better get to that, soon. They must then, with their many friends, who came after them, or along with some of them, as they arrrived on this planet, by space carrier, or space ship, begin to get their Lesbianists friends in all the governments of the world, and their other friends in the governments of the world, to comply and participate in setting up the one world planetary government.

The software and operating system software, have in them, access capabilities to access data bases, to down load all of the information, that is needed for every one to learn about and to begin participating in all the new programs.

Building The Infrastructure, And The Needed Facilities, Etc.

Once you begin accessing the databases, and once you begin to study, and learn about the new programs, my kids, who work in other universes, and in other dimensions, will then begin to build and set up the infrastructure, housing, food production facilities, medicine production facilities, recreational facilities, academic facilities, hospital facilities, prison facilities, and so forth, that will be needed to further advance the programs every one will be required to begin and will need to begin to participate in.

Once we get to that point, we will begin to be able to have a stable society, with all of the new technologies that will be provided for security, and personal safety.

Molding Up Bread And Metals Animals, Etc.

I said, before, that you need only a square inch or so of metal in each one gallon of bread you are molding up. That may be a minimum, but it is better to use more. If you are using a plastic container, you can line the bottom of it, with aluminum foil, and you can line the in side walls of the container, up to one half to two thirds up towards the top, for better results.

Some molds animals like silicas. Some like quartz. Some molds animals like tourquoise. And lots of them, like various mixtures of minerals and metals, and elements animals, as well as other animals, we do not know much if any thing about, who are hiding inside of rocks, and stones. Anyway, we'll find out, in time, all about what molds animals we are trying to make, and what they like to eat, and then we will find the right types of rocks, ore rocks, mineral rocks, and other types of rocks and stones, and we will provide them to the molds animals, and funguses animals, so that they can get fed well. The more well fed we feed them, with all of the many types of worker animals of mine, the healthier they the molds animals and funguses worker animals of mine will become. The more healthier they become, as we raise them, in the containers we find to farm them in, when we are finished farming them, and then when we eat them, the more healthier the organ animals in us, will become.

The more healthier the organ animals in us become, the better able they will be to make babies, and the more successful we will be at prolonging our longevity. Our bodies are meant to last for eternity, if we feed them with the right worker animals of mine, and all the proper foods and nutrients they need to stay healthy. We have much to learn about all of this, and the sooner you begin making friends and making sexaling partners with the Lesbianists, and their radical friends, the sooner you will be able to begin to understand how to feed your bodies, properly, so that you can begin to live forever, and so that you can begin thinking about working for me, in this main, Central Bus Station Terminal Building that we are living in.

What Will Be Your Main Jobs From Now On?

It might take you awhile to decide to begin working for me, but the sooner you decide, the better off we will all be, as we need all of the wonderful sexaling energies you and your sexaling partners will be helping to create, to fill up this universe of ours, and to fill up all the many universes of my kids, and all the living areas of my kids who live outside this 'Central' universe we are in, which is a very big place, as I've mentioned about, before. It is very hard to fill up this 'Central' universe we are living in, with all of the wonderful sexaling energies, that will allow us to begin to breath, easier, once again, and that we are starving for, and that we are currently depleted of.

We will, though, over time, fill up this whole universe, and all of the many other universes, and areas my working kids live in, with all the needed sexaling energies animals, and other types of energies animals, we do not understand too much about, and that we also have to study about, one day.

My working kids are all doing their best, sexaling for a living, so that they can erase their karma, and balance out their karma, in addition to working at their main support jobs.

Those of us, you and I, in this main, 'Central Bus Station Terminal Building' do not have any support jobs, so we will have lots of time, for the 'managing my universe' programs, and for the 'sexaling for a living' programs so that we can also erase our karma, and balance out our karma, as well as erase all of the karma of my worker animals, and also, help balance out all the karma of all of the worker animals of mine.

That is your main 'job', from now on, sexaling for a living, as well as working in the 'managing my universes' programs.

We will have lots of time to study about every thing we need to and want to study about, so we can better understand the many things we need to learn more about, so that we can appreciate what my working kids are doing, to keep all of the many tiny universes, and all of the living areas, as well as our universe, in proper working order so that you can all live and work forever, as one big family of children.

There is much more to learn about, with regards to my family of children, and about all the new human being kids we will be greeting, and welcoming into our large family, as the ladies and girls begin to bring them into our 'Central' universe, as tummy mommies, along with the tummy daddies, and we will learn more about the many new working kids of mine, that my working tummy mommies kids and working tummy daddies kids, will be bringing into, and welcomeing and greeting as they come into each of their universes and living areas, another day. We will also be seeing many new worker animals of mine, over time, as many, many new ones, of all types, will also be joining the working force of my worker animals.

Getting Busy, Cleaning Up, In The Gurkian Age

It will take us a long time to get every thing into good order, and to clean up our universe, and erase our karma, and balance out our karma, along with my worker human being children, who are all busy, cleaning up the many support universes that they live in, and cleansing their karmic records, etc., and who are all busy, cleaning up the many support living areas, that they live in, and cleansing their karmic records, etc., as they begin to practice, more and more, my new religion for the Gurkian Age that we are now in and at the begining of.

This may sound hard to believe, or 'fictious', but it is not 'fictious', and over time, you will learn all about every thing in detail, and you will begin to get your selves grounded in reality, more and more, as you begin to work in the 'managing my universe' programs, and as you begin to work in the 'sexaling for a living' programs.

Taking The First Steps Towards Resolving Cooperation Issues

Making friends and becomeing sexaling partners with the Lesbianists, the Zealots, and with their radical friends, is your first step in the correct direction towards resolving the difficulties we are encountering, now, to some extent, because of the Lesbianists, and their radical friends reluctance to cooperate. The more friends you make and the more sexaling partners you make, the more the Lesbianists and their radical friends will begin to 'cooperate' with you, in all the ways that are important to resolve the cooperation issues, and non cooperation issues, that are currently in need of resolving.

Air Raid Shelters And Play Time 'Fetish' Sexaling Underground Dungeons

People with underground air raid shelters, may wish to add on to them, and expand their size to accomodate all the new friends from among the Lesbianists, or Zealots, and their radical friends, who people with underground air raid shelters, or other convenient places, underground, such as play land dungeons, which some people who like fetish sexaling, may have, will be inviting in to their underground air raid shelters, for a long duration stay to have the Lesbianists, or Zealots, and their radical friends, teach them about sexaling, and teach them about molding, and the sciences that these people know nearly every thing about. Almost one hundred percent of the course work had to be completed, and in many cases, it was one hundred percent of the course work that needed to be completed, to make them an eligible candidate for an out bound planetary settlement program.

Becoming Trusting And Loving Friends With Each Other

As you invite these people into your homes, you will need proper accomodations, such as extra rooms, and extra beds, and so forth, so people with underground air raid shelters, and with underground fetish sexaling rooms, or dungeons, will need to expand the size of these underground rooms, so as to accomodate all of the guests they will be inviting in, to meet and sexal with the family, the relatives, the neighbors, and other trustable persons.

You can learn many secrets about sexaling, and you can learn a lot more, than you would imagine, as all of these people were certified as instructors for teaching sexaling techniques, judo and ai kido techniques, as well as impromptu ninja type, assasin techniques, for use in a pinch, to protect their lives. They were also certified to teach molding sciences, and all the earth sciences, and planetary science, all the math sciences, and so forth. They were also trained in government sciences, nutritional sciences, medical sciences, and so forth, so they could be all around, professional, well trained persons. All this training was for the bright of the brightest, and they spent many hundreds of thousands, and millions of years, and billions of years, and some times, more, training and getting certified in all the career sciences, as well as in fitness and health sciences, that they needed to learn to set up a new civilization, with a fully developed government, in accordance with the instructions and requirements for that government, which was to be based on the same pattern of government, where they trained to become certified officials on the planet they were to settle, and in the galaxy they were going into.

They were trained to be excellent leaders, and capable people, in every sense of the word, to get and hold the attention of all late comers, and to prevent the late comers from attempting to dislodge them, from government, over some petty, dissatisfaction, about their performance. Their performance issues were of major concern, so they were highly over qualified, so as to make it clear to all late commers, people who would be arriveing later, either as new additions to the population, on the out bound planetary expeditionary settlement program, or as tummy babies, to tummy mommies, and to tummy daddies, who they all new they were going to become.

They are so well trained, they can teach you practically any thing, not only with regards to medicine, government, the sexaling sciences, and so forth, but even about the martial arts sciences, and ninja sciences, and the techniques they learned, which they practiced, many of them, diligently. They can do some very fancy martial arts and ninja assasin tricks, if you ask them to, and they can be very entertaining as some of them are very adept, or skilled at performing these tricks, and secret martial arts attack and destroy skills. As a rule, in the Lesbianists organization, any way, they are only allowed to use those skills, in a life or death situation, so you should treat them, well, and be courteous, considerate, and kind to them, and make sure their stay is comfortable, and that they are well fed, and offered only the best foods, and the best wines, etc. They will help you to learn how to make good tasting wines, which are not only good tasting, but also, good for you, which will help feed all the animals in your bodies, including the organ animals, so that you can regenerate and rejuvenate your bodies.

Of course, when they were in training, for the out bound planetary expeditionary settlement program, when they trained in the martial arts, and when they trained in the ninja sciences, they were certified, and got their diplomas, as well. In the guidelines, they are not allowed to use their ninja attack and destroy skills, or their death threat level, response and offense to attack and destroy an enemy, who might like to dislodge them, forcefully from government, and perhaps kill them, if they could, to get them out of the way, permanently, unless their lives are in danger.

So long as you do not threaten them, and make hostile remarks to them, and so long as you remain courteous, careing, considerate, and kind to them, and so long as the men and boys act in gentlemenly manners, and so long as the women and girls act with lady like, polite manners, to whom ever your guests are, you will certainly be able to get along with each other, without any problems, at all.

They were trained in the sexaling sciences, and in the molding sciences, and in all the academic sciences, so that they could also offer educational programs to all of the new comers, whether tummy babies, and off spring, the children of the members of the out bound planetary expedtionary settlement program, or whether new members, incoming from else where, who would like the additional academic training.

Try to get along as best as you can, and remember to be polite, and talk politely, and be courteous, and make every effort to allow them to enjoy the luxury of relaxing days and nights, fully sexaled, and fully fed, and allow them to make lots of aphrodesics molds, and other molds, as well as useful and tasty beverages, such as those they can make with fruits, and juices, and molds of various kinds, which will increase the amounts of nutrients in your body to help feed all the hungry animals, and organ animals, and cell animals, and amoebes animals, etc., who are all in your body, and who are all in need of nourishment.

Remember too, to always test feed the drinks to farm animals, such as pigs, hogs, goats, lambs, sheep, dogs, cats, and so forth, including other animals, such as guinea pigs, mice, rats, ferrets, and wart hogs, first, if your guests will not drink the beverages they make, for some reason.

We want every one to remain healthy, and happy, and there should be no toxic poisonings of the food and drink permitted, due to tricky knowledge of poisons the Lesbianists, or Zealots, and their radical friends, can make, with their knowledge of the molding sciences.

Make sure every one remains on the best of terms, and make friends with them, after sexaling with them, for several weeks, or longer, and when they begin to truly enjoy their stay with you and your family members, and with you and your family's relatives, and with you and your family, and so forth, and your neighbors who will be dropping in, every day, hopefully, to enjoy extended sexaling sessions, for days, and weeks, and even months, and even years, in lots of cases, as they haven't had the chance to sexal very much, ever since they all came up from underground, where they were living, and sexaling with all their friends, all the time, for their 'tour of duty'.

The Lesbianists, i.e., the Zealots, and their radical friends, must perform a 'tour of duty', every so often, to stay in good standing within the organizations they belong to. They plan these tour of duty trips to the surface of the planet, to engage the locals, the ordinary folks, the dim witted folks or rodent population, as they call them, well in advance of each tour of duty. We ordinary people, are the dim witted folks, in their view, and they enjoy making fun of us, and making fools out of us, as much as they can, for their amusement. We shouldn't mind this, as every one needs to have fun, once in a while. So be gracious hosts, and invite many of these people, freely into your homes, and treat them almost as you would treat the members of your family. Remember to sexal with each other, daily, as much as possible, when time permits. Have lots of friends, and associates, all trustable people, come to your homes, to meet your guests, your 'new' family members, and have your trustable friends engage them in pleasant conversations, and in lovesome sexaling. Lovesome sexaling, is passionate sexaling.

You can find their likes and dislikes, as to who or which type of person, male or female, and so forth, each new guest likes to sexal with, as a preference. Make sure that every one is compatible, with each other, in terms of their sexaling preferences. As time goes by, you will all begin to love one and another, and then the issues of non cooperation, will fade into the past, and into ancient history, and we will eventually get full cooperation, on all the points neccessary, for then setting up a one world, planetary government, with their kind assistance. They will be happy to teach to you the terms of compliance, once you become cherishable, loving, and tendersome friends with each other, as you sexal with each other, daily. Tendersome means, loving and caring towards some one.

In time, when you have begun to break down the walls of hostility, some of them may feel, for being guests, against their wills, some of them, anyway, will never the less have some tiny amounts of hostility, for your bringing into your homes these wonderful people, despite their busy, daily schedules, and rigorous duties, or routines at work and on the job, in government, or in the field of academics, and in television, as news casters, weather reporters, anchor persons, camera men and women, and stage and screen acting jobs, and stage hand jobs, from police departments, fire departments, ambulance attendants, doctors, lawyers, ad agency workers, and so forth, or in what ever the work they are doing, during their tour of duty.

As you, the hosts, gradually break down the walls of antagonism, unpleasant feelings, and hostilities some may feel towards you, or resistant feelings that some may have, when you invite these people, your new 'family' members, or guests, into your homes, as you sexal with each other, the longer you sexal with each other, sooner or later, you will begin to be able to love and trust each other.

When you are able to love and trust each other, and when there are no residual hard feelings, or unpleasant memories left, when you all love to snuggle and sexal with each other, having lots of fun and laugher with each other, then you will want to begin to get the shopping lists of delicious foods for them to eat, and you will want to get the shopping lists for the items, that they will need, to make the delicious molded foods, and the delicious snacks, given their incredible know how on making delicious foods, and delicious snacks, and delicious beverages, based on all their academic learning, training, and teaching, that they acquired over the many long years of study, public service and volunteer work they performed, to qualify for the out bound expeditionary settlement programs.

In time, you will all be able to regenerate your bodies, look younger, feel great, feel more fit, and your stamina for sexaling will have improved, if you follow their advice and tips on how to improve your sexaling methods, and your sexaling techniques. As you listen to them, and learn from them, you can level up your sexaling sciences knowledge, along with your sexaling skills. In time, you will also be able to learn all about the molding sciences, and you can even have them teach you some of their 'sneaky' tricks, that they know, that could kill you, if they were allowed to mold up, any thing they wished to mold up, without supervision.

Remember, a loving relationship is not the only thing needed to build a trusting relationship. Understanding, respect, and careing for each other, all go a long way towards helping you to deepen your trust with one and each other, so that you can deepen your tenderness towards each other, and strengthen your bonds of love, for each other.

Supervise carefully, every thing they do, and remember, if they will not eat or drink what they make for you, you should test feed it to the pets you have, as I've explained about, before, for several weeks, as there are fast ways to poison people, and there are slow ways to poison people.

This is a very difficult area to manage, but once your guests, your new 'family' members, begin to show true love and affection, and unflattering love for you, and for your family members, and for your friends, etc., with respect for you, your family members, and for your friends, along with care, consideration, and understanding, these problems will become less of a threat to having a happy and mutually cooperative, and prosperous relationship with each other.

Unflattering Love

Unflattering love, is a type of love, where you accept each other, for who you are, with all your faults, and frailties, no matter what they are. It's like a brother and sister relationship with each other, with love and respect for each other, no matter what.

In time, you will develop your love relationship into one of unflattering love and affection. When you have succeeded at that, then the hazards, one may encounter, as hosts to your guests, may become a tiny bit, less serious.

It takes many years of cooperative association, many thousands of years, and then, even more, before you will develop any thing that is worth while between you and your guests in so far as being able to trust each other. So prepare well for the long term long haul journey ahead of you, as it will take you millions of years, before your guests, even begin to calm down, a little. People are very good at hiding disatisfaction, and disgruntlement. They can linger, and they will linger, until they find a way to express them selves. You need to be cautious, at every moment, and suspect every thing that is in any way, suspicious or ambiguous behavior. Even after billions of years of mutual sexaling with each other, there may still linger hard feelings, in some people, if not in many people, for having been forced to experience, a sudden change in life and in a sudden change, forced upon them, in life style.

The Importance Of People's Rights To Freedom And Their Rights To Freely Choose The Course And Direction Of Their Lives

Being forced to cooperate is not a pretty issue and hard sentiments will linger for a very long time, if not handled properly. Counseling can help, but basic freedom is what is expected, and so until or unless you give your guests, complete freedom, to act and think, and do as they like, there will be problems and head aches for every one, with minor issues, possibly causing, major catastrophes, such as an early death and a visit to my Epcot Center, from an over dose of too potent, lethally potent, molded up substances.

Freedom, denied to a person, is the worst thing that can happen to some one. Until your guests can experience life, freely coming and going, as they like, and as they choose, voluntarily helping you and your family, and your friends, out of love and respect for each other, to learn the sciences that you need to learn to allow you to feed all the hungry animals inside of your body, and to feed all of the hungry organ animals, and cell animals, etc., inside your body, so that you can begin to live forever, you will experience difficulties in your relationships with each other, that will now and then appear, and cause possible problems for you, your family, your friends, and also for your guests.

Freedom to choose is a basic right of all people. So let's all be kind and loving towards one and each other, and over time, you will begin to be able to loosen the restrictions on personal freedoms, and in time, you will be able to do away with them, and dispense with them all. This will be a major turning point, in your relationships with your guests. When your guests can come and go, with unrestricted access to your home, just as a sister or brother has, to their home, and when your guests can freely choose what they wish to do, without any coercive forces placed upon them, then you will be making a major turn in the direction in which you all wish to go, towards a happy, healthy, settlement, over past confusions. With this as a goal for you, you should cooperate with each other, and make life as easy, comfortable, and satisfying as possible for your guests, to minimize their possible hostilities towards you for your forcing them to get into a situation of cooperate or else. This is not a good thing, and you will not get any cooperation, at all, if you approach your relationship with each other, with that attitude, and with that approach. A long, dependable, reliable, and mutually enjoyable, sexaling history with each other, is the begining of a trusting and loving relationship, that will one day lead to the loosening of restrictions on personal freedoms.

Captain Off The Bridge.

John Francis Ayres
GOd
And Children

Molds And The Potential Dangers Of Potent Molds - Lima Beans And Molds Types - Worker Animals Living In My Universe - Special Automobiles That Travel Through Space - Bugs, Bugs, Every Where - Molds Grow In Layers - What Do The Lesbianists Enjoy Doing? - 'Spokes Persons', And 'Experts' On Television - Mormon 'Peace Brigades' - Soldiers Stumble Across Unepected Sights, Now And Then - Historical Documents Found In Attics, And Shown On The PBS Program, 'The Roadshow' - PBS's 'This Old House' - Getting Revenge Is What The Lesbianists Enjoy, Most - Lesbianists Will Never Tell You The Truth - Stopping The Lesbianists, Please Detonate And Destroy All The Airports The U.S. Congress Members Use - New Releases Of The Programs And Operating Software - Molds And Donor Bowl Technology - How Plentiful Is Gold, Silver, Platinum, And Other So Called "Precious Metals"? - Building An Underground Fortress, Or 'Playroom' - Molds And Donor Bowls - Technologies To Investigate Molds Gardens - Long Distance Video And Audio Technologies - Managing My Universes Software, Etc. - Fibromyalgia, What Is It? - Asking The Lesbianists For Specific Information On How To Repair The Damaged Animals In Our Bodies - What Is Our Job, From Now On, In My Universe? - Treatment For Industrial And City Life Pollution - A Word Of Caution - What Are The Good Molds To Experiment With? Update: 06-07-07 Rev.f. 01 08:54 PDT

Molds And The Potential Dangers Of Potent Molds

Sometimes, you may have a mold on the bread that you are molding up, that may be too strong, and may need some trimming. As you mold up you need to trim your molds. What is trimming a mold? You need to make it more useful, by using various techniques, to make it edible, that is, eatable.

An eatable mold is what we want to make. We do not want to make a mold that is too strong in nickle animals, or too strong in copper animals, or too strong in iron animals, or too strong in stronthium animals.

What is stronthium? Stronthium, is a mineral that can be useful to your health, and is useful, but if it is too potent, or too strong, that is, if there are too many of my worker animals making gardens with lots of stronthium in the plants, and bushes, etc., and the number of gardens increases, and they my worker animals cover the whole piece of bread with their gardens and forests of stronthium rich plant life, then the piece of molded up bread, if you eat it, may make you ill, and vomit, or you may get cold chills. If there is too much stronthium, then you can even get seriously ill and die.

This is true with any molds gardens that my worker animals make. There are secrets about how to make molds gardens, and how to get the right number of worker animals, from the right sources, onto the piece of bread that you are trying to mold up. Different worker animals from different sources, will be busy making molds gardens, and you want to try and get right combination of my worker animals onto your bread, so that they can make you a nice salad of molds gardens of many different and useful kinds so that your salad will be healthful for you to eat.

You need to know a little about molds, and what types of molds grow on bread. You also need to know what types of molds grow if you put, for instance, lima beans with bread, in a canister or molding pot, and the pot is made of copper, instead of steel, or iron, instead of gold or silver, or lead,

You have to study about molds, and you have to learn about all the different molds. This can take many long years. You need also too know, what in combination with what, will produce what molds.

Lima Beans And Molds Types

There are many millions of combinations that you can make. Lima beans is one with bread. Lima beans grown in Peru is another. Lima beans grown in Alaska, in a low lying valley in Alaska is another possible combination. Lima beans grown in a snowy mountain village, in the summer, but in a green house, with a hot springs water supply, and geothermal, and hot water sulpher springs heating is another combination. Lima beans grown in Siberia, in a snowy mountain village, in the summer, in a green house, with a hot water supply, and geo thermal, and hot water malaxacite springs heating, or iron sulphide laden hot water heating, are two other possible combinations.

Worker Animals Living In My Universe

There are many millions of worker animals families in different parts of the world, who will each work on different lima bean plants. The worker animals all have different friends working with them. Many of the workers are different all together, and maybe they came from other planets, even, and settled on this planet, when they got a ride on a person's pant leg, or on a person's shoe, when that person came to this planet.

You can travel by air plane to different countries. You can also travel by air plane, to some planets, if you know how to make an air plane that will travel up and through the upper solar atmospheres, and out into the areas between planets, at a fast enough speed, so that it can pass through a dimensional barrier, and then in a different dimension, it can fly wihout hitting objects, directly to the planet the passengers wish to go to.

Special Automobiles That Travel Through Space

Some types of auto mobiles, which have special technologies, also travel through dimenisional barriers, to other planets. They have the technologies, to be able to get a lift, up and out of the planet's gravity pull, and then out onto a platform, landing and take off space. Once okayed for a take off, it can go to the next platform, and then to the next platform, and it finally reaches the final platform, and then it gets the okay to land on a planet, and it comes in, and it lands on a landing strip, and then after passing security and customs, it is free to drive to a person's house, or to an opera concert, or to a theater to listen to a symphony concert. Lots of people travel this way, in many parts of our universe.

When people, land, they bring all kinds of rubbish, with them, including lots of air, from their lungs, and from inside their automobiles. Inside the air, there are lots of tiny bugs, that crawl around in the bronchial tubes. Inside the tummy, there are lots of animals that crawl around in the tummy, and some of them, end up getting pooped out, when you go to the bathroom.

Bugs, Bugs, Every Where

Lots of times, little bugs, of all kinds, may find their way into a package of flowers for a girl friend, or chocolates for a boy friend. Or some times, people exchange, rasberries, and strawberries, and other types of edible foods, that are eaten, and pooped out, and then, the remains are thrown out in the garbage can, and then later, the trash company comes and picks up the trash, and they go to a compactor site, and they make use of what they can recycle, and they mulch up what they can mulch up, and they dismiss the items, they can not have on their planet, that are toxic, or that are not allowed on their planet, for one reason or another.

Many bugs travel from one planet, to another, in cars, in strawberries, and in groceries, that people pick up on other planets, and carry home, to their planet, to eat at their homes. This is perfectly legal, and every one, knows about it, and they are all laughing at me, because they all can read what I am typing, as I type. They have the technologies to read directly what I am typing on my computer, and that is nothing, special, as far as technologies go.

There are no laws that say they can not watch what I am doing, when I am sleeping, or when I am in the shower, or when I am dressing, or when I am typing, or when I am out side, walking to the store.

There are no laws on privacy, as privacy is a myth. We think we have a right to privacy, but remember, all you girls and women were married to all the men and boys in the universe. All you men and boys were married to all the women and girls in the universe. You were all sisters and brothers with each other, umpteen who knows how many times. You were all fathers, and mothers, and you tummy mommies gave birth to every person in our universe, all your sisters and brothers, from previous lifetimes. All you tummy daddies, also shared in the work with the tummy mommies. Every one knows every one else, and every one has been butt naked with every one else, umpteen countless times. So, privacy is not an issue, any more, as you all know what you each look like, when you are butt naked, or sick in bed, or in the hospital, and so forth.

Any way, many bugs travel from planet to planet, and there are lots of bugs, that may have gotten here, from the past, as the Lesbianists always have friends visit them, and their friends from other planets bring gifts for them, and they bring lots of produce, and things to grow, and this has been going on, since they got here.

How often their friends visit them, these days, I do not know, but some times, in the past, they visited them, often, and they have stopped, lately, as they do not want to get caught. They stopped about fifty five years, ago, and before that, they often met on some secret military bases, that all the soldiers on the base, are Lesbianists.

There are many military bases, that only Lesbianists are allowed to join, and allowed to live at. The Lesbianists have them all over this country, and all over the world, in fifty five places, approximately. Some times, even now, the Lesbianists have guests who visit here, but not too often. When they visit, they come in and land on the run ways, and in secret places, where they can glide in, at night, in special light carrier cruise ships, that practically glide in, from the parent ship, waiting up above. When they land, they land very softly, and quitely, and no one even wakes up.

They stay for a few days, to a few weeks, to five or so months, or even longer. They are here, now, and many are in hiding, with the Lesbianists, as guests of theirs.

They bring in bugs on their pants legs, and they bring in all kinds of micro scopic animals, and even tinier animals, and you do not have the technologies to see them, because they are so small, and because the Lesbianists prevent the 'ordinary' people from getting the patents and licenses, to build them, and they execute the patent owners, and any others who are part of the company or companies, who wish to build the microscopes, or other useful technologies, and that is that.

These animals that are very tiny, are living all over this planet, and there are millions of different families of tiny animals, that eat up each other, on the lima bean root and root stalk, and on the stalk of the plant, and there is much warfare on the plant, in very tiny places.

The out come, is there are many tiny animals, eating other animals, and pooping and peeing wastes from their bodies. Their poopy materials get into water and the air, and onto the roots of the plants, and onto the stalks, and onto the leafs, and we have lots of different kinds of tinier animals, that eat up that poopy material, and those pee liquids, and they live on that stuff, just like pigs live on dung from cows and from horses, and how flies live on dung from cows, camels, horses, bears, dogs, cats, humans, and so forth. There are lots of animals, we can not see, at all, because they are too small, and because we do not have the microscopes, and the lenses, and viewing technologies needed to see them.

The lima beans in different parts of the world, all have different groups of animals living on them, when they are picked, and when they go to market.

When you take the different families of animals living on the lima beans, and you have a handful of lima beans, you can put them into a container, that is lined with one or more layers of aluminum foil, and then you can put into the container, rocks, gravel - if they are clean - and pretty amethysts, quartz stones, agates, opals, garnets, and other pretty mineral stones.

You then put into the container, some bread to mold up. Depending on where your lima beans where growing, and depending on who was working, from among my worker crews of worker animals, on the roots of the lima bean plant, and on the lima beans, and in the leaves, and so on, you will get different poopy materials, and different types of pee liquids, and in the poopy materials, and in the pee liquids, there are lots of other animals, that are very tiny, and difficult to see, without the right technologies that will let you see them.

You can have millions of different molds gardens, from lima beans, with bread, in a container, as a result of all the different crews of worker animals that I have working in the soils, in the rocks, in the air, in the water, in outer space, on each planet, and on the moons, every where, with lots of them all mixed up, with one and another. The different animals living in the rocks, or in the aluminum foil, or in the walls or on the surface of the container, will also increase the number and types of poopy materials, and of pee materials that mix in, and help produce different types of molds.

There are so many possiblities, just with lima beans, there are more than millions of molds that are possible. When you think, well, there is also sessame seeds, and there are walnuts, and almonds, and pecans, and cashews, and figs, and fruits of all kinds, and seeds, and berries, and leafs, and roots of plants, and different plants, on land, and in the water, in lakes, in streams, in seas, in oceans, then you begin to see that the number of possiblities for different types of molds, gets very high, as I have so many worker animals, working in different places, they make me dizzy, when I think I would like to count them all.

It takes too long, to count them, but the important thing is to know, that there are many types of molds that can grow, just from lima beans.

When one mold begins to grow, another mold also will begin to grow, and so will many other molds begin to grow. One type of mold may grow in one part of the bread, and other types of molds may start growing in other parts of the breads, after you leave the lima beans, in the container, just for a few weeks, and you make sure there is enough humidity for the animals inside, to get some thing to drink.

You do not want to make my animal workers go thirsty, or they will not work for you. So you have to learn how to be a gardener, if you want to grow molds, properly. More over, you need to learn a lot about tending plants. That is, tending the types of plants that grow in molds gardens. Since there are so many molds that grow, you will need a lot of time to learn all about being a gardener, for all the different plants that grow in all the various molds gardens that grow.

You will also need to study about all the different kinds of animals that live in the molds gardens. You will also need to learn, what kinds of molds gardens will grow near other types of molds gardens, or on top of molds gardens.

Molds Grow In Layers

Many molds gardens get over grown with other molds gardens, and they grow in a double layer, one over the other. Sometimes, they grow in three layers, and in four layers, and in five and in six, and in seven, and in eight layers. They grow in many tens of hundreds of layers, if you let them grow for a long time.

How many layers, can they grow in, well, it depends on how long you want to grow them, the soil conditions, the growing conditions, the humidity conditions, the weather and climate conditions, and on many other factors.

I don't know how many, you can grow, if you really try to grow a lot, but there may be quite a few of them, that will grow, and way to many for any one to count, in lots of cases.

Some of the layers of molds may be alright to eat, depending on what the molds are, but some of the layers may not be alright to eat. Some molds layers are not useful for people to eat, because they are filled with some molds gardens, that are better for tiny animals to eat. Some molds gardens are better for large animals, like pigs and hogs, to eat.

People can eat lots of molds gardens, but you have to study about molds gardens, and about how different molds gardens grow with other molds gardens, in one layer, after another, in a container, with different types of rocks, under different conditions, on the different types of bread, to know which ones you can eat.

Some molds gardens, will give people stomach aches, so it is good to learn and know which ones give people stomach aches, and which ones are safe to eat, rather than not know which ones are good for our stomachs, and for our bodies, and are safe to eat.

We do not have any courses on molding sciences in our schools. This is because the Lesbianists will not teach any one about molding sciences. Why won't they teach any one about molding sciences?

Because, they enjoy living a long time, alone, by them selves, and they like to watch us ordinary people, come and go, one life after another, back again, then gone after eighty or ninety years, then back again, then gone again, and they think it is funny that all the while, we never catch on to what they are doing. They make friends, with people who they like to make friends with, and they enjoy fooling them, and dumbing them, or making fools of them, and they enjoy finding out if the people they meet, were friends of theirs, in previous life times, and they find out who they were, by checking in special databases, they or their friends have access to, and then they confirm whether they knew them or not.

Most of the time, they can already tell, once they meet them, and hang around with them, for awhile, if they had known them or not, in previous life times, as they know so well the persons they usually meet, again and again, and the persons they've met so many times, who they know all of the personal habits of, and the likes and dislikes of, these people they used to know, that they can pretty much guess if they know them or not, this time, when they meet them, and after hanging around with them, for a little while.

What Do The Lesbianists Enjoy Doing?

They like to take your tax dollars, for one thing, so that you will support them, pay for their salaries, homes, vacations, their all expenses paid holidays allowing them to visit their Lesbianists' friends in politics, all around the world, showering them with lavish gifts, presents, round trip tickets to visit them in Alcapulco, or elsewhere, with all expenses paid, and they enjoy the perks they get such as your paying for their kids' college educations, and their kids' trips during college breaks to far away places, such as Portugal, Spain, Lisbon, Istanbul, Singapore, Korea, Japan, and other countries with your tax dollars paying for all the expenses, as well as all the expenses the Lesbianists need for doing the fun things they like to do, on their credit accounts, with various government agencies, set up to help them pay for their lavish, over seas' lifestyles, while they make fools of all of you.

They enjoy watching you fall for the scams they set up, where they saturate you with their talking 'experts' who tell you how to live your life, and what to invest your wages in. Then they like sending you, seemingly out of nowhere invitations to their 'specialists' talking tours, where they talk to you for a weekend or for a week or so, and they try to talk you into buying what ever it is they are trying to sell you.

They get close to you, this way, and they find out things about you, that they will use to track information on you, in the databases that are set up in my universe, that they or their friends can access, to identify you from your previous lifetimes.

They have a 'sexaling for a living' account, that they are allowed to use, and track their old friends with, to see how they are doing. They all arrived here, on this planet, on the 'sexaling for a living' program. They are still registered members, and they have access to databases, if they are still in good standing, and if not, they have friends, who can access the databases, if their friends are in good standing, and there is much abuse, and fraud, that goes on, and it is not punished, as my kids are recording it all, and in time, my kids will take action, and dispel them from the program, that means, kick them out, and not allow them access to the underground bunker houses, that my kids had put in for them, to live in, and my kids will make them live on their own with their friends, and not in the facilities that they were originally allowed to live in. Once they are tossed out of their special facilities they earned the right to use, as members of the 'sexaling for a living' program, they are forced to live in the down below, underground cities my kids built for them during their initial getting used to the planet and to it's solar conditions, and to it's other conditions, that they must aclimate them selves to, before they can safely emerge and begin living on the surface of the planet.

There are several hundred thousand persons, such as Boris Yeltsin, who has a registered fortress dwelling, as Boris Yeltsin, sexals for a living, still, from time to time. He and the others, are the only ones who are left, and the rest of them find accomodations elsewhere, or with friends, from time to time, in the underground bunker like homes. They do not have to worry as much about the abominated 'animal people', I've mentioned about, as the others former members do, who are no longer legitimate members of the 'sexaling for a living' program.

Note: I was told by my kids that the number of people who are still legitimate members of the sexaling for a living program, was several hundred thousand, on this planet.

Then, accessing the databases, they learn who you are, who you were in your past life times, and then they remember the many occasions they met you, and were friends with you, and they also remember all the unpleasant things that happened, that made them angry at you. They then plan their game for getting revenge against you for the mean things, or unpardonable things, in their twisted minds, that they remember your having done to and against them, and against their friends.

'Spokes Persons', And 'Experts' On Television

You can hear, on any radio station, probably, no matter who runs it, civilian, i.e., ordinary person or, Lesbianist, advertisements from their 'spokes persons', people with credentials, who like to tell you how to live your life, and what to do for getting the most out of life, as I can hear, daily, on KOAS, 105.7 Jazz, Las Vegas, Nevada.

These 'spokes persons' are on every 'propaganda' interview talk show on TV, and on other programs, as well, such as the supposed 'educational' series done by credentialized anthropologist, Desmond

Morris, a major Lesbianists' propagandist and they have set up programs where all they do is feed you bull shit, such as on PBS, the famous Road Show, where they are bullshitting you on and on, about what your 'priceless' family hand me downs, and possessions are worth, when they know they are not worth a dime, because these Lesbianists have been on this planet, for over gazillions of years, ever since they settled it, on the outbound expeditionary planetary settlement program, for qualified people in the 'sexaling for a living' program, who were supposed to set up a planetary government and a global society, and give birth to lots of my kids, by making babies, and then teach them in courses they were supposed to set up, every thing they had agreed to teach, and then educationaly nurture in the people who would come, as tummy babies.

The Lesbianists have set up so many civil wars, and other wars, for their fun, and entertainment, as they have many scenarios for their kicks, thrills, and enjoyments, and they constantly are changing the scenarios, every time their plans collapse, after their illegitimate societies fall apart for one reason or another, and they then have to start over again.

The societies do not always collapse, entirely, and some times, things going on in one part of the world, is very advanced, technically, while things going on elsewhere, are in the stone ages, nearly. They keep people away from areas that are not yet ready to be seen by ordinary citizens on the planet. They put out travel advisories and warnings issued by state department counselates, of chaos in jungles, and tribal militias, in rugged, untraveled areas, and so forth.

Mormon 'Peace Brigades'

This way, they keep people apart from each other, and they keep modern up to specifications people, people with 'worldly' or 'global' agendas and ambitions, such as private organizations that send out counselors to countries where people are less fortunate, than others around the world, from the reports they have seen, or from video images they have seen. They keep these 'do gooders' usually, a lot of Mormon 'Peace And Charity' bringers, the young men who go out, for a set period of years, to bring the 'gospel' into the 'lives' of 'non believers', from seeing the things they do not want them to see, such as technically advanced structures, none of the primitively living people in a mountainous, rugged area, for example, have any idea as to how it got there.

Soldiers Stumble Across Unexpected Sights, Now And Then

Soldiers sent on expeditions to fight with guerillas, find these technologically advanced structures, as they come across them, as they are searching out the area, for the 'enemy'. The soldeirs are warned that they are not to disclose any information on what they found, as it is too sensitive to let any one know any thing about, and their mouths are sealed, at the threat of retaliation for insubordination, sabotage, spying, or infringement against laws of engagements, the articles of war, that prohibit soldiers from disclosing enemy information, so as to keep it secret, for legitimate, in a normal society, purposes.

Historical Documents Found In Attics, And Shown On The PBS Program, 'Roadshow'

There are so many copies of treaties, and declarations of independence, not one of them is worth a penny, as the Lesbianists set each war up, and each society up, and they are laughing at you for thinking the documents actually mean something.

On the other hand, you can see them bullshitting you with their experts, who tell you how cheap something, is, or that it is a 'recent' creation, made, for instance, within the last fifty or so years, or within the last one or so nearly, hundered years, such as an irreplaceable lamp, with a beautifully made lamp shade, the creation of which, is worth a fortune, as it is so rare and so beautifully executed or made, and in fact, it was made umpteen millions of years ago, for instance, or even longer, ago, and they know it is worth a fortune, and they get nervous, a little bit, and they stammer, a little bit, and they get edgy, and they show signs of perspiration on their forehead, and you wonder why is the person so nervous.

Well, it is because that what they are looking at, they plan to tell their friends about, so that they can go and burn down the house of the owner, after killing the owner, typically, and after either destroying the item they found that the guest/owner brought into the studio, to show on the PBS program, the 'Roadshow', and get 'authenticated', by 'experts', or after killing the owner, and his or her family, and then stealing it, and keeping it for themselves.

You come around and go around, again and again, and you all have talents, and have always had talents, as you developed your abilities during past lifetimes, and once you got your abilities in a certain area of your interest, up to a certain level, it isn't hard to see how you take those developed talents with you from one life time to the next. It is just a matter of reviving them, if there is an opportunity for you to get into that area of your interests.

The experts crafts persons among you, make nice things, and then the Lesbianists trash your lives, and some of your work surfaces, some where down the road, at a time, later on, in some old attic, and no one knows how it got there, and it is something of great value, that just happened to escape the holocaust, that devasted the last civilization, or a previous civilization, the Lesbianists set up, and that went missing, and was of such exquisite compensense, and compensense means, nice looking and exquisite in form, texture, beauty, style, meaning, and composure, that they can't even hold their breath, because they are about to pass out, and they tell you it is worth a few bucks, or twenty or fifty dollars, and all the while they know they are bullshitting you, and they are nearly fainting, and when their friends see how well they bullshitted you, they will make their friends feel they are getting some kind of revenge against you, for your being so stupid, as to what is what, and what came from where, and who made it, and what it is worth, in true value.

The Lesbianists who run the program, 'The Roadshow', and PBS, regularly rate cheap items, as expensive, to some extent, when it is just a piece of rusted junk, such as a civil war sword, that some southern soldier had the unfortunate circumstances in his life, to go off and fight a war the Lesbianists staged for him and you other ordinary persons, to go and fight, so they could laugh at you, as you killed each other off, and bloodied the country side, with your torment, and grief, at their beckoning and call, all the while you thought they were worth a darn, and they weren't, all the while, and they were just interested in using you, and in making fun of you, and then having a good time, with what ever it was, that you left behind, such as children, who they enslaved, or houses, farm steads, and so on.

The Lesbianists have caused so much harm and devastation to so many people, and they just laugh at it. The ugliness of what they've done, is well documented, by my kids, and one day you will all get to witness it, your self, as my kids keep video data, and audio data, on every one, and on every thing that occurs, nearly.

PBS's 'This Old House'

The Lesbianists have their specialists talk to you on 'This Old House', for instance, or on one of the other propaganda programs they have, and they bullshit you, on TV, and their friends are watching, and they get laughs, and every one knows who they are bullshitting, because by the time the program airs on TV, they have already told every one among the Lesbianists who would be interested, with their secret communications capabilities, that they have installed in homes of important people in their organization, and that information is forwarded to other Lesbianists who they know would enjoy watching them bullshit you.

They televise their bullshit sciences, they created, and information on the supposedly important and famous people, who have passed away, for instance, and in one of their sick jokes, they bought or stole, or forclosed on his or her property, and then opened up a swank gallery with his or her work, and they keep it all for their viewing pleasures, and for their enjoyment, and they do not allow the ordiary people on the premises, unless a person happens to be invited by a Lesbianist, who is just going to enjoy some time, bullshitting the person.

They televise the 'visit' to the premises, gallery, or the estate on PBS TV, to tell you and 'teach' you some thing about the 'deceased' person, who was 'famous' for such and such, which they know is based on a numbskull science they taught him, or her, and what ever he or she actually became famous for, they bought for a meager sum, usually after swindling the elderly owner, or they forclosed on it, and then they enjoy it, with their friends, and they sort of taunt you, on TV, saying, look at this, isn't it beautiful, and too bad, but you can not enter the premises, without a special guest pass, and they broadcast this on a feature program on PBS, or on one of their other public broadcasting channels, over seas, the BBC in Britain, or NHK in Japan, and so on.

They are constantly mocking you, and poking fun at you, and making them selves laugh at how stupid you are, for not catching on, and for thinking it is something you should look at, as a serious viewer, when all the while, they are making fun of you and the snookering job they are doing on you, laughing at your stupidity for not knowing that the science involved, is a bogus science, and for your not catching on, and that they are just shamming you, or snookering you, once more.

They hold you up to these patriotic "I Pledge Allegiance" to the flag nonsense, in schools, and they couldn't give a darn about whether you are born in Scotland, or Queens, New York, or Paris, or Darwin, Austrailia, because they know, that no matter where you land, when you come back as a tummy baby, they or their friends around the world, will just continue snookering you, no matter where you are born, and no matter to whose family you are born.

They then send your son's and daughter's out on war and peace campaigns, where they make minced meat of you, as they force the soldiers to engage the 'enemy' in mock, to them, wars, and peace keeping campaigns.

Your son's and daughter's, if they are lucky enough to survive, come back from the wars, and from the peace keeping campaigns, and they are not happy with their experience, and there were many dreadful things that happened, such as being caught by the enemy, then tortured, or crippled. These are all made up wars and made up peace keeping campaigns, and it is set up to keep you busy, so that you will pay your taxes to them, for the 'important' things they do, to maintain 'peace' and 'stability' in the world, so that you can 'sleep' at night.

Getting Revenge Is What The Lesbianists Enjoy, Most

Most of all, the Lesbianists enjoy getting revenge on people who they dislike. They enjoy going out with their old friends, and they enjoy fooling them, and they remember the bad things their old friends, did once to them, a long time ago, and they never forget these things.

The Lesbianists then enjoy kidnapping them, and then they enjoy torturing them and their family members who they always knew as well, in previous life times, and who they always had problems and complaints with, as well, and they typically hated them as much as the people who they bump into, and become friends with, and after torturing all of them, then they enjoy eating them, and then they enjoy killing them.

They enjoy being able to take all the properties, and all the land that every one owns, making sure that they keep all the valuable property, as far as they are concerned, in their hands. That usually means, making as much of the land, public parks, national parks, wild life conservation areas, indian reservations, BLM land, or other publicly, or privately owned property.

They are a very foolish, stupid, fiendish, menacing, and evil group of dangerous people, the Lesbianists, and we have to stop them, now, as it is time for them to give up the game, and it is time for us to force them to stop pretending and lying.

Lesbianists Will Never Tell You The Truth

They will never stop lying, no matter, what. You can threaten them with death, all you want. That will not help, at all. They know how things work in my universe, and they are not at all afraid of torture, or death. The only way to stop them, is to either kill them all, or you can kill most of them, take over all the jobs they had, and then make friends with the ones who are left, after you finish killing as many as you can.

You can start killing them, if you wish, by killing Hillary Clinton, Bill Clinton, Jeb Bush, the two George Bushes, the two Barbara Bushes, all the congressional members of capital hill, who are Lesbianists, and then all the important cabinet persons, of the White House, and department heads of all the important departments of the U.S. government. You'll have to kill most generals, admirals, and commanders in the military, as most of the military leaders, with a few exceptions, are Lesbianists. Many of the state National Guards are nearly all Lesbianists, so you'll have to get rid of as many of the commanding officers and soldiers of the National Guard as possible.

Stopping The Lesbianists, Please Detonate And Destroy All The Airports The U.S. Congress Members Use

If you happen to be in Washington, D.C., please blow up Washington National Airport, now named, after former President, Ronald Reagan. That will make it hard for the Lesbianists to travel. They will have to go to Dulles International Airport, or to another smaller one, nearby, at one of the military bases. If you can blow up all of the military bases in the area, and blow up Dulles International Airport, as well, then you will make it difficult to travel for them, unless you blow up the all the air ports, all around Washington, Baltimore, Northern Virginia, Maryland, Pennsylvania, West Virginia, North Carolina, Tennessee, and so on.

If you destroy all the air ports the Washington D.C. congressional members use, then you will make life difficult for them.

Please, by all means, use the bomb formulas, that I have provided, and blow up all the airports, and all the military bases that you can blow up, and destroy the entrance guard shacks, and the run ways, and the barracks at the military bases, and the munitions depots, and the armories, where they keep many of their weapons stored.

You should also blow up the underground bunkers, where they have all the sensitive equipment, that they use, to listen to the chatting of Russian soldiers, and Russian housewifes.

While you are killing as many as you can, others can be making friends with the Lesbianists who accept invitations to visit the families of interested persons, who wish to learn sexaling techniques, in the classrooms, provided by the families, in their underground air raid shelters, and in their underground fun time dungeon play rooms. As time passes, when you've killed enough of them, and when the ones you've invited into your homes, have taught you every thing they know about sexaling, and lots about what they know about molding sciences, and other things of interest, for rejuvenating your bodies, for enhancing your libido, and for feeding the organs animals, cell animals, amoebes kiddies, and other animals in your bodies, you can ask them to come another time, and then you can make sure they find their way, to a new home, or apartment, as their old home or apartment may no longer belong to them, or be there, as former neighbors may have gotten rid of their old homes, since they were not available by phone, and no one knew where they were staying, for so long.

It may take us several years, to make an effective change, to a dozen years, or as long as twenty or even thirty years, to fifty years, or more, but eventually, we will make the changes we need to make, so that every one will get all information on the molding sciences, and so that every one will be able to learn the secrets of molding sciences, and the secrets of rejuvenating the human body.

New Releases Of The Programs And Operating Software

I am aware that, some people have a new copy of the operating systems, and of the software programs. I recently had my kids release, to the FBI and to the persons who are in charge of the audio and video surveilance links on me, as far as I could confirm, a new upgraded version of the operating system software and of the program software package. If the current government will cooperate, and distribute the software, then we can get the information on the molding sciences, and on the rejuvenative sciences, to all of you, soon. If they will not cooperate, then there is no alternative, but the ones that I've suggested.

Molds And Donor Bowl Technology

In donor bowl technology, you take a small container, about a gallon or so in size, and line the bottom of the container, with one or more layers of tin foil, and throw in a couple of rocks, that you know are clean, and that look pretty. If they look interesting, like a pyrite rock, with lots of different types of metals on it, and a little quartz you can use that, and you can throw in tourqouise, or malachite, or lapis lazuli, or a gold ring, necklace, bracelet, or ear ring, or a silver ring or bracelet, etc., and you can throw in a nice looking sterling silver spoon, that is not a cheap piece of garbage, that has metal pieces flaking off of it, like some table forks and table spoons, knives, and so forth, that come out of cheap, Taiwan or Mainland Chinese factories, or out of factories in Korea, or Japan, where the bottom line is all that matters, and find a good piece of your grandmothers' silver ware, or some thing comparable, and don't be stingy about silver ware, as silver ware is useless to your health, if you do not eat with it.

Silver plates, copper plates, bronze plates, gold plates, even gold plated metal plates, are all very good to use, and you'll find that what one person calls aluminum, or pewter, or brass, may in fact be a combination of ores, with many precious metals in it, despite the imprint on the underside or bottom of the piece, indicating it is sterling silver, or brass, or pewter, or whatever. We do not have the technologies to tell one metal apart from another metal.

Our technologies are too primitive, and so you can not tell when you have gold animals in your metal, in lots of cases, even if you have a piece of pewter. I have many types of gold animals kids, and they all get written off as slag, when the factories are melting down precious gem stones that they mine in vast quantities, and no one uses it, and it sits there, in the foundry yard, until the foundry yard goes out of business, and then vandals may steal a piece, but if the Lesbianists catch the vandals, they will kill them.

Workers try to take home a piece of pretty looking slag, or waste metal, that is scraped off the top of the bowl of liquidy, heated metal, because it is too light, as it is floating at the top. Well, many types of gold float near the top or at the top, and so does silver, and the steel is heavier, and so the top good stuff gets swiped off, or scraped off from the top of the molten metal pot, and it is dumped in the foundry yard, to sit there, and no one uses it.

Gold animals, and silver animals are as plentiful as platinum animals, and lead animals, and copper animals, and iron, and steel animals. There is no such thing as a 'precious metal" because they are all in my universe, eating, and munching on each other, and on other types of minerals animals, and on other tiny animals as well, and they make babies just like every one else does.

There is no lack for want in the baby making departments, and so there are just as many gold animals kiddies, as silver animals kiddies, platinum ore animal kiddies, as there are iron ore animal kiddies, and copper ore kiddies, and so on.

The reason the Lesbianists have their trick sales technique for "precious" metals, is because they know you do not know any different, and they know that you have not been educated, and they know that you are not smart enough to figure out what is what, as you do not have the technologies to investigate and determine who are my gold animals kiddies, and who are my silver animals kiddies, and who are my platinum animals kiddies, and who are my iron animals kiddies, and who are my copper animals kiddies.

How Plentiful Is Gold, Silver, Platinum, And Other So Called "Precious Metals"?

The Lesbianists hoarde the gold, and silver, platinum, and white gold, and they make it look scarce, and they ban people from mining national parks, and BLM recreational lands. The bureau of mines, has strict controls, and limits on land you can mine on, and the Lesbianists, for the most part, control all the useful land, and they do not let 'ordinary' people, get ahold of the useful land, and if an ordiary person finds a useful piece of land, the Lesbianists end up killing the person, and every one associated with the person, so that the issue is no longer a topic of concern for any one, who knew the person.

You are too stupid, so they think, to figure out any thing, since they have educated you in dummy sciences, that lead no where. Then they complain how stupid you are and about how little you know. So they spoof you, and they came up with the movie, the "Planet of the Apes", and its sequels, and they were written using you as the character of the 'ape', the common ordianary citizens of this planet, and the common ordinary citizens on all the planets they control, where as, they considered only them selves, the normal, "intelligent", human beings.

They laughed at you, in your monkey suits, as they employed the ordianary people of this planet as the actors and actoresses, to portray the 'apes'. Many of the actors and actoreses, where former Lesbianists, and they hate all of the former Lesbianists, as all former Lesbianists got kicked out of their organization, and they know who the former Lesbianists are, and they have beefs, or attitudinal problems and complaints, with all of you, who were Lesbianists, before you got trashed, grieviously tortured, eaten, killed, and with that, you were kicked out of their organization by them.

If you are a man with a vagina, and nine times out of ten, many of you still have a vagina, though some of you have worked off the karma, to have a vagina, such as you men and boys with normal genitalia, as you all had vaginas, all of you, because of the karma you had, killing females, led to that, and some of you worked off your karma, enough, and balanced out your karma enough, for you to lose that vagina you originally had, you were probably a Lesbianist.

Maybe almost every one of you, were at one time or another, a Lesbianist. There are not many people in my universe, except perhaps for me, who was not a Lesbianist, in the past.

If you are a woman with a dick, or with one that has been cut off when you were a young baby, because of the doctors advice to your parents, though some of you worked off that karma, as well, and balanced it out, etc., you were probably a Lesbianist, in the past, before they trashed you, killed you, grieviously tortured you, ate you, killed you, and with that, you they kicked you out of their organization.

It's the same case for females, as it is for males, almost every one of you, but there are a few exceptions, were a Lesbianist, in the past. The exceptions are the little, tiny people, who live in the abominated zones, in the pumpkin piggy patches, as I've mentioned about, before. There are other exceptions, but I will not go into them, now, because once you start studying in the 'Managing My Universe' program, you will learn all about who did what, and who ended up where, and so forth. In any case, that is some thing you can look into, later on.

Building An Underground Fortress, Or 'Playroom'

So the nice thing for you to do, would be to make friends with every one, and that goes for the Lesbianists, as well. You should all invite the Lesbianists into your underground rooms, and caves, and culled out work rooms. Culled out means, cut out of the face cliff, or cut out of the wall, or rock wall, or cliff, along side a river, or an ocean, or along a steep mountain face. Culled out work rooms, are not hard to make, but you need to know something about explosives, and blasting, and then, deconstructuring the surface of the cliff face, safely, so that you can little by little, safely, cut out, or cull out, a study, a garage, a work room, a tennis court, a bowling alley, and so forth that you can enjoy under your main piece of property, if you happen to live above a very high and large, solid, granite, or lime stone, etc, rock cliff, far above a lower valley, or river below, or very far above the level of an ocean, or sea, below, and off and aways a little bit, from where your property is located.

Once you begin making an underground, fortress, or play house, if you are a specialist, in explosives, and in architectural engineering, and geological engineering, or if you can get some friends together, who with your combined talents, can manage to cull out an underground fortress or play room, then you can build one, and you can later, after you have installed cold water piping, and drainage, safely, along with installing the electrical power generating facilities you'll need, to keep electrical company employees from snooping around, then you can invite your friends over, and have a block party, with trustable friends, and then you can invite some of the Lesbianists over, and make sure they understand that they are there as guests, on a temporary, but long term stay to teach you all about the molding sciences, and all about sexaling, and so forth, since they are all gifted instructors.

You could always get every one on your block, if they are all trusted friends, to set up a power grid, underground, using the electricity of every one, on the block, to power the underground play room, that you and all your friends will enjoy building. That way, if you build it right, and if you do not raise the suspicion of the power company's meter reader, or meter inspector, or any one else from the power company, who has upkeep maintenance work, to perform, from time to time, then you can safely put in a grid, and hook every one into it, so you can all share in the costs for the mutually enjoyed underground playhouse, along with all the sexaling entertainment, that you will all be able to enjoy, with your many friends, and with their many trusted friends.

Molds And Donor Bowls

With regards to molds and donor bowl technologies, after you've got your container set up, with a few layers of tin foil or so, on the bottom and sides of the container, and rocks and gem stones, etc., in the bottom, you can use that as a collection bowl, and go around and investigate the molded up breads that you have, and you should have between thirty of forty types of molded up breads, or more, to select from, and when you see some thing, interesting, after a few weeks, to a month, or more, you can pick out an interesting piece of bread, with lots of molds, or with just a few molds, and then you can combine six or eight of the different molded up breads, from six or eight containers, and then just place each slice of molded up bread in the 'donor bowl' container, and then, give it a few days to a week, to get leveled out.

Leveled out means, that the molds on each piece of donor breads, will each spread from one to another of the pieces of bread, and then you'll get a proliferation of molds, on all of your breads, and with lots of molds, it is generally safe to experiment, with a little piece of a corner of a piece of bread. If you cut off a tiny enough piece, you probably will not get too sick, if it is too potent for you to eat.

Try out the different molded up breads, and some may taste gentle, and tasty, and others may not taste to much to your liking, but after a while, you'll get to learn, what types of molds may cause problems with your body, and what types of molds will not cause problems with your bodies, and what types of molds to avoid eating, and what types to enjoy eating.

Molds will continue to grow, one over another, and one day, even though the molds may not be nice ones for you to eat, after a few weeks, and after a few tricks, such as placing those molded breads in with cherry juice, wine, or with sugary water, or with honey, or with fruit juices, fruits, milk, or sour cream, yogurt, or honey and cream, you can get the molds to grow, different molds, that will be more useful to you, and more tasty. There is a lot to study, about molds, and how to farm them, tender them as if they were your gardens, and cultivate them. The Lesbianists know all the secrets about all of this, so we need to convince them to give up the game, and start cooperating.

When you are examining, and sampling your molded up breads, jot down in a note book, accurately as possible, after you've described them to your self, the molds, and every thing about them, and give them names, and take photos of them, and keep a note book, for instance, with the pictures in them, and your notes, so that you can remind your self about what you saw growing, and what you learned about each one.

Technologies To Investigate Molds Gardens

If we had the technologies to investigate the molds, with a powerful enough microscope, that employed the proper technologies, and some computer software programs can be written by persons who know how to write them, and you can attach and adjust a lensing camera to your computer, you can take photos of the molds, and with the write computer program, once it is written correctly, it will be able to do many things, that you did not expect it could to.

They become very complicated to learn about all the technologies involved, but you can get some hints, from Sony, or Pioneer, or Mitsubishi, who have all invested much money into telephoto lenses, and video cameras, and they know all about the technologies that are needed, at least they have them, as classified material, in their documents storage rooms, and you can get copies, if you know the right people, and then you can write your software program, after studying all about the technologies involved, and after you've figured out what technologies are needed, and how to duplicate them, with your computer programing skills and your adeptability.

Adeptibility is a person's being able to know, intuitively, almost, after a lot of study, what it is you need to do, to get the results you want.

Once you put together the software program, you can have your friends use it, and give you input as to how to improve it.

A lot has to do with different types of energies, and how to send them out of the computer, and how to recieve them, back into your computer, and then how to decode them, to get the dramatic effects of being able to see through walls, or hard surfaces, that you never knew you could see threw. A lot also has to do with your ability to make a lensing system, which allows for viewing far away objects, as well as magnifying them, quite a number of times, all while keeping the clarity of the object in focus. You need to be able to light up the object, no matter how far away it is, and no matter how tiny it is, and you need to be able to get the light and imaging back into your camera, or into another camera, or into another pickup input device, a chip on a circuit board, such as an infared circuit board, and then how to drive that energy up, so that it is useful to you, and so that it will brighten up the image, that you recieve, back to your computer, once it has been picked up by your computer's infared reciever device.

It is a little tricky, to get every thing right, but with the technical input the Sony scientists, JVC Japan scientists, Mitsubishi scientists, Cannon, Nikon, and Fujitsu scientists, and paper copier company scientists of Dae Woo, and others, it will not be long before you can put together a computer program, that will sufficiently do what you would like it to do, and that is, investigate the tiny worlds where little worker animals of mine, go about their daily work.

You can even develop similar technologies to see other people, on other planets,if you are adept enough. You can even develop the technologies to be able to see other people on planets that are on the other side of a lot of obstacles, between you and them.

They have many technologies out there, that allow them to see you, and wave at you, but you don't have the technologies to see them, and call them on a video link up, and say hi to them.

You'll need some kind of tracking system technology. To track some one, you need to find a type or types of light energies, and possibly other types of energies, that allow you to bend them.

You also need to be able to pin point those energies, and keep them pin pointed, and on target. You then need to know the technologies involved so that you can lock those energies onto your target. If you can find the types of energies needed, you can get them to lock onto your target, and then they will bend, as you stay on target, and you can get a two way refractor system set up, and the light will come bouncing back to your infrared like energy tracking diode, or whatever it is you use, and you'll be able to lock onto people, far away, as their planet spins, and moves, and as our planet spins and moves, and you will be able to stay on target, and then you will be able to see them, and track them.

You need these pin pointing, and tracking technologies to track the little worker animals, who work for me, as well. You may need a number of other technologies, as well, to make it work, properly, but with help from JVC, Panasonic, Pioneer, and other technical scientists, you should be able to get it to work, without too much difficulty, if you are good at using your brain for these types of fun projects.

You also need to develop the listening capablities, and audio transmission capabilities, but that is not hard, because if you can develop the video transmission technologies, you can easily use your brains, and then, with thoughtful investigation, and research, and with some consulting with the scientists at Bell & Howell, Honeywell, Phillips, and other companies, they all have the information you are looking for, and they can all provide it to you, if you know the right people to ask for assistance at getting to it.

Long Distance Video And Audio Technologies

Rand McNally has already developed the technologies, for this type of software, and so has Phillips Engineering, Hawthorne Publishing Company, and a few other companies, as well, and if you know the right persons, you can find copies of it, and you can get it to work on your home computer, if your computer will run this software. I don't know what format they have programed their software in, but Fortran, or Pascal, and a few others, I think they have used. If you know what to do with it, after that, or if you know some one who would know what to do to get it running, you can invite your friends, and all of you can get the software set up, and then you can distribute it, among trusted friends.

Eventually, after you have put all the right technologies together, of if you should be so lucky as to get a copy of one of the systems that the companies mentioned, and perhaps others, as well, have already developed, but are not distributing, because the Lesbianists who run the companies, will not allow it, you'll be able to have long distance phone calls with people, far away, on other planets, and you'll be able to see and maybe even speak with practically anything in my universe, if not every body, if you are interested in seeing and speaking to them. The majority of people, nearly, have these technologies, so you'll be able to meet and speak with at least, those people who have the technologies that can interface with the technologies, that you develop.

There are also data bases, here and there, and you can learn from the many friends you can make, in our universe, and from the Lesbianists, how to access them, with the right permissions, and codes, if you can get either the Lesbianists to cooperate with you, or if you can get the people you meet as you go sky surfing, to cooperate with you, and ask them to use a translator program, to help translate their language into your language, so you can hear them in your language.

They have the technologies to be able to decode the languages we speak on this planet, but setting up the software programs to decode their speech, is a little too difficult, as it takes many years to put together, that kind of a system.

Managing My Universes Software, Etc.

If if you get a copy of the 'Managing My Universe' program software, that has the 'Sexaling For A Living' program explained, and many other programs, also explained, in depth, along with lots of useful information, you'll be able to get lots of help, and there are even programs that do these things for you, and you won't even have to worry about making the programs, because all the programs you need to be able to do all the above noted things, and much more, are all included in the software programs selections, for your use, once you join the 'Managing My Universe' program, and once you join the 'Sexaling For A Living' program, and once you swear in, and promise that you will sexal for a living, in accordance with the guidelines for the 'Sexaling For A Living' programs.

It's the new way my kids and I hope you will enjoy earning a living, in the future, as soon as we can get started, with the cooperation of those who have the software programs that I recently had my kids send off to them, using the video and audio surveilance systems, and the work force, they have in place.

The FBI, the White House, Jeb Bush, George Bush, Jr., Barbara Bush, Jr., George Bush, Sr., Barabara Bush, Sr., former general Swartzkoff, former general Colin Powel, Secretary Mike Johanns, Secretary Dirk Kempthorne, Secretary Carlos Gutierrez, Attorney General Alberto Gonzales, Secretary Robert M. Gates, Secretary Elaine Chao, Secretary Margaret Spellings, Secretary Condoleezza Rice, Secretary Samuel W. Bodman, Secretary Mary E. Peters, Secretary Michael O. Leavitt, Secretary Henry M. Paulson, Jr., Secretary Michael Chertoff, Secretary Jim Nicholson, Secretary Alphonso Jackson, Richard B. Cheney, Joshua B. Bolten, Rob Portman, Ambassador Susan Schwab, Stephen Johnson, John Walters, and others who are Lesbianists working for the President of the United States, will all know where you can get the software, and so please give them a call, and see what they have to say. Your state senators will also all have the software, or at least, they will know where you can get a copy of it. So please try speaking to them, before you busy your self, speaking with the other people, who are just Lesbianists stooges, who are just sitting in their chairs, like on holiday, just thinking who they are going to fuck over next, when, where, and how, before they eat them, while they are alive, and then kill them.

I wouldn't waste my time, too much with them, as they are not very cooperative, because they are all hard core Lesbianists, and they will not budge or flinch an inch, or admit to anything. They will lie, lie, lie, and lie, and that is all they will ever do, or so it seems.

The people on CNN, and on all the major networks, are also all hard core Lesbianists, with few exceptions. These Lesbianists will also just lie, lie, and lie, and they will never get any where near the truth, about nearly anything. They will give you the weather, but that is about all they ever tell you, that is truthful, one hundred percent, or nearly one hundred percent, since they even lie about things to do with the weather, as I noted before, since they call the industrial pollution in the sky, apple meyer, and that is a chemical haze yopu can see hanging over L.A., and Las Vegas, and New York, they helped to cover the planet with, with their petroleum industries technologies, so as to poison your health. They know all the sciences needed to keep them from dying, but they will not teach you the correct sciences, to help keep you from dying, as they enjoy watching all the people they hate, and who they enjoy killing, now and then, suffer. And they joke about you, and they call you, 'rodent rat people'.

They made a movie, the "Planet of the Apes", inspired by you, as they see it, and they continue to mock you, and toy with you, as some kind of chess game piece, and they will continue their silly games, until you are dead and gone, and then they will wait for your return, from my Epcot Center, which I have explained, about, before.

Fibromyalgia, What Is It?

What is fibromyalgia? Well, as far as I can tell, it is the plastics kiddies, from petroleum products, such as your camping mat, or your vinyl upholestry in your automobile, or in the taxi cab, or in your home, the furniture you bought that is covered in clear vinyl, or fake naugahide, which is a type of fake leather made from plastics.

Naugahide is every where, in vehicles, in trucks, in nearly every automobile, as the seat covers are made from it. It is a type of plastic, that is very comfortable, but it is made from plastics, derived from the petro chemical industry, and from the chemicals industry.

When you sit for long hours on naugahide, little fumes animals, and you can smell them, if you put your nose up to the naugahide, and you can smell, some times, a kind of material, that is similar in smell, some times, to leather, but it is not leather, though the companies that make naugahide, are very clever, and they know many ways to disguise the smell of the plastics kiddies by using different chemical compounds when formulating the naugahide compound material mixture, and the tanning formulas.

It doesn't hurt you right away, but over long months, and some times years, of breathing in the fumes kiddies from it, you will eventually begin to discover that you do not feel well, all the time. You might feel nervous, or edgy, or just uncomfortable. There are lots of people who feel this way, and they do not know why they feel that way, but they just feel that way, and they think, maybe I need some vitamin tablet, or maybe I need to go swimming, or sit in the hot tub, or in a jaccuzii.

Fibromyalgia can be experienced in a myriad of ways. Why is that? It is because there are so many different types of fumes animals, from the petroleum industry, we don't know which ones they are, that are poisoning our bodies, and they all hurt different amoebes animals, cell animals, organs animals, all over, inside of our bodies.

They eat up lots of different muscles in the body. They might eat the feet muscles on the soles of the feet. Or they might enjoy eating your leg muscles tissues. Others enjoy your back muscles tissues. Still others, they don't care too much where they get some thing to eat, and they go any where, in the body, and they eat all over the place, and you get sharp stinging pains, that are very uncomfortable.

We can not see these fumes animals when they are at lunch, eating our bodies up, and the muscles cells kiddies, and the organs kiddies, all over your body. I wonder how many types of fumes kiddies there are from plastics, and also, how many fumes animals kiddies there are, in petrol, diesel, kerosene, gasoline, Coleman's campfire lamp fuel kerosene, motor oil, and in all the petro chemical products, that line the shelves of the groceries stores, in every area of this country, much of Canada, and Mexico, I suppose, as well. I don't know what people in Europe purchase, or in Russia, or in the Soviet Union, or in Bulgaria, or in Serbia, or Croatia, Greece, Latin America, except for maybe some parts of Mexico, I can suppose they use similar products to what we use, in this part of the country, as some Mexican soaps, and detergents, chlorine bleach, kitchen soap liquids, and other products from Mexico, can be found in some of the local stores, here, such as Kroeger's or Food4Less, Albertson's, Smith's, Walmart, K-Mart, Target, and maybe some others.

I'm sure if we go to an automobile parts store, we can find lots of petro chemicals that we use to wash our cars, or motor bikes, off-road four wheeler bikes such as made by Suzuki, or Yamaha, or Honda, our camper trailer, motor home, or our motor boat.

We are surrounded in petro chemicals, and the air conditioners are puffing them out, despite the arguments of the technicians, who will say, they are safe. They leak out so many fumes, and no one can see how small they are, and many times, you can not even smell them. They build up, and then they begin to smell, when other petro chemical fumes, from the tar in the pavement in the roads, begins to mix with them.

Well, walking around in Las Vegas, we can get the same experience, any time, if we are healthy enough to have a sense for what smells good to our noses. If we are not always breathing in the fumes kiddies, and for instance, if we sit in a park, way out in the country, for instance, with an old log home, and lots of clear skies, and lots of clear running creeks, and streams, and ponds, when we spend some time there, getting our bodies detoxified, by good living, and good healthy eating, and with lots of molds foods, and with lots of ferment brews, and with lots of the healthy things we can make, such as I've mentioned, when we come back into the city, you will think we are entering petro chemical hell on earth.

It is so bad, the smells we have to put up with, and most people become immune to them, after some time, driving around, in traffic, and just thinking, this is normal, haveing the fumes of the buses, blowing into our cars, as they start out at the traffic lights, or the fumes of other cars, blowing in through our car windows, when they pass by, just as they are starting up, or while we are in congested traffic. Los Angeles is a smelly town, no doubt, but Las Vegas is one, too, and so is New York. Washington, D.C., is a smelly town, also.

Any way, even our homes, begin to smell, and we are immune to it, as we can not notice the smells, unless we go and detoxify our bodies, for several weeks, to several months, and then come back, and then try our noses smelling the carpets, the curtains, the bed linen, if made of rayon, nylon, or an other fabric that is not a natural fabric, such as cotton, or wool.

When we go out and purchase home cleaners, such as chlorox bleach, or shampoo, or soap, dishes and glases hand soap, dish washing machine soap, or Ajax, or Spic and Span, or Mr. Clean, Tide, or other product for cleaning the house, bath room, bath tub, shower, clothes, dishes, or whatever, we are bringing into our homes, harmful fumes kiddies in all those products. They escape from inside the containers, because we do not know how small they are. They are so small, they can escape with out our even knowing it. I am not kidding you.

When they escape, you're going to slowly get ill, and develop muscle and body aches. You can even experience degeneration of ligaments, sinews, tendons, and you can end up with tennis elbow, a bad back, and who knows what else, as these fumes animals eat up not only muscles in your bodies, but they also eat up the ligaments, sinews, tendons, and other fibers in your body, including your nerve fibers, amoebes in your brain, and cell animals in brain structures, and organ animals in brain structures and in nervous system wiring. They eat heart muscles, and just about every thing there is to eat, in the human body, including the teeth, and the sexaling organs, and every thing connected to your sexaling organs.

I mentioned that we have lots of organ animals in our bodies. Well, we have not only amoebes, and cell animals, every where in our bodies, but we have organs animals by the gazillions in our bodies. The fumes animals hardly discriminate, and they like not only muscles, and tendons, sinews, ligaments, cartiladge, nerve fibers, and other fibers in our bodies, but they like to eat the organs animals, the amoebes, and the cell animals, too.

It begins to hurt, with very stinging pains, as far as I can tell, when they start eating up the organs animals. The large the animals in the body that are being eaten up, the more severe the pains, unless you have a lot of animals, of all different sizes, all being eaten up, at the same time.

Well, to cure this, or rather, to stop this, we have to live in log homes, drink water that is not chlorinated, and I mentioned that chlorine is a petro chemical liquid, that is used in jet fuels, and even in some high powered cars, on some planets, instead of gasoline, because chlorine, when it is carefully mixed with other petroleum liquids, and other ingredients, can make a very powerful race car engine fuel.

Next, we have to eat lots of ocean salt and eat a well balanced diet. We need to increase our salt intake, till we use about up to two and a half, to three pounds of salt, to eight pounds of salt, depending on the size of the person, or possibly more pounds of salt, as in the case of the big sumo wrestlers in Japan, and in Samoa, and in Korea, and other places, up to about ten to twelve to even eighteen pounds, or even somewhat more, up to twenty or even thirty pounds, each year, for the large sumo wrestlers, who have lots of problems with fibromyalgia pains. One sumo wrestler, who weighs about eight hundred pounds, needs about forty or more pounds of salt, easily, each year, for helping him with his fibromyalgia pains, to kill the fumes animals in his body.

Some people may get by on less salt, if they do not have severe problems with fumes animals, i.e., fibromyalgia animals, but for most people, you need to increase your ocean salt intake, and not use iodized salt, as that will worsen your problem, as it is poisoned with petro chemicals, and no one tells you, and it is not on the label.

If we increase our ocean salt intake, we will get over fibromyalgia, in time. To repair our bodies, is more difficult, once you have increased and maintain a steady high level of ocean salt, in your body, daily. If we let it drop, we can get ill, once again, if we inhale fumes, animals, and they are in the carpets, and in the curtains, and in the ceiling tiles. Don't be fooled. The Lesbianists put fumes animals in every thing they possibly can, since they want to make you suffer.

They know they only need to eat lots of ocean salt, and they laugh at you, when you get sick, and when you suffer, and when you can no longer work, like many fire men, and fire women.

When we have a house burn down, there are so many fumes animals that are let loose into the air, we should just run for cover, and forget about putting the fire out, as we are certainly looking for health problems, though we do not know it. There are many fire men, and fire women, who are so ill, they can not get up in the morning, and no doctor knows what their problem is. Well, it is simple. They inhaled so many fumes animals, their bodies are being eaten up, from the inside out, and the Lesbianists just laugh at them.

Asking The Lesbianists For Specific Information On How To Repair The Damaged Animals In Our Bodies

To repair the damage to the organs animals, and to the amoebes, and to the cell animals, we can ask the Lesbianists for information on the types of molds they use, to help them help their organs animals, and other animals, repair themselves.

When there is a big forest fire, the government calls out soldiers, and others, such as national guardsmen, and national guards women, and soldiers from many marine bases, or army bases. Professional fire fighters are also called to the scene, and they pitch in, and try to put out forest fires.

It is really perverse, when you think about it. The natural woodlands must burn down, to then regrow. Nothing is hurt, as trees have roots that are so deep, and that go off in many miles in many different directions, so long as there is a stump to that tree, above ground, that is all that is needed, for that tree to regrow, within a few hundred to a few thousand years, depending on what type of tree it is, and where it is growing.

That is silly, isn't it. Well, what is worse is that the Lesbianists tell the fire fighter crews to put the fire out with petro chemical flame retardants, they either spray on, from a short distance away, or that plane and helicopters over head, drop onto the fires, and burning trees, and shrubs, below.

The fires eventually return, with in a few years, some times, and guess what. All those petro chemical flame retardants get burned up, and the fumes make the fire fighters so ill, many of them simply die. You do not hear the statistics on the number of deaths among fire fighters, but there are many, and they are often times, military soldiers, who die, and the family gets a note that their son or daughter died, and little else is said about it, except for the information on the funeral. This is ridiculous, and it needs to stop, right now.

However, there is a problem, here. We all have karma. This is some thing that we can not get around. Many people do not know what karma is, and many people do not believe in karma.

Well, that's up to them, but the truth is, there is some thing I call karma, and it is just a record of all your good behavior, and a record of all your bad behavior. I am a sneaky guy, and I have my kids record your karma. And you can argue about it, all day if you like, but that will not mean anything, because my kids are always recording your karma, whether you like it or not, and whether you believe it or not.

Now how are you going to deal with that karma? Well, you can keep going through one life time after another, being made fools of, by the Lesbianists, or you can start sexaling, and you can try to practice my religion, as I've explained about it, on my bulletin board. When you start practicing my newest religion, you can begin to get your karma straightened out, and soon, after many gabillions of years of practicing my religion, slowly, people will stop making fools of you.

That's how serious it is, your karma. Until you work on erasing it, and it takes a long time to erase, because we've all been here, in my universe, longer than any one can possibly imagine, and we have so much karma, it will take us nearly eternity to erase it all.

There is more to karma, than that, and you can study and learn about it, once you join the 'Managing My Universe' programs, and once you join the 'Sexaling For A Living' programs, which I've mentioned a few words, about.

Until you erase your karma for being made a fool of, by these Lesbianists, and for being made a fool of, by your friends, and family members, and school teachers, and by others, you won't really be able to be happy. There are lots of things we need to erase our karma for. Not only for being made fools of, but also for just being bad people.

What Is Our Job, From Now On, In My Universe?

We have been so bad to each other, over the many kazillions plus years, we have been living in my universe, life after life, and no one can count how long we've really been here, as it is just too long. All that time, even from the very begining, when we first got here, and began living in my universe, it wasn't long before we started acting, badly. That snow balled, and now we have so much karma, it is just ridiculous.

Anyway, that's our job from now on, and you and I are all going to get to work, erasing our karma, and learning about karma, and learning about how things work in my universe, and in time, we will begin to understand that, truly, indeed, our main job here, in this big bus station terminal center, as I've called it some thing like that, before, is to erase the karma that my kids, as well as us, produce.

It is our jobs to erase it, by practicing my religion, and by sexaling, religiously, in time. In the begining, you will not think that sexaling is a religous act, or a religious activity, but it is, and as the kabillions, and katrillions, and kazillions of years go by, eventually, you'll begin to learn, and so will I, that sexaling is a religious activity. When people say that, I'm sure they must have a smirk on their face, as no one thinks that sexaling is a religious activity. Well, we can smirk all we want to, but in time, we will learn that sexaling is indeed a religious activity. It will take a lot of time, and a lot of experience, but after who knows how many years, eventually, we will get brighter than we are, in the head, and we will begin to understand that sexaling is a religous activity, just like praying is. There are many religious activities, many people will think, 'Oh you've got to be kidding me!', but one after another of them, in time, you will learn that they are religous activities. I've mentioned about some of them, before, and people smirk, and laugh, and giggle, and no one takes me seriously, but that is to be expected.

In any case, in time, we will see that these activities are all religous activities. In the mean time, no one really cares, I don't think, as so many people will just enjoy sexaling, all the time, or some of the time, as some people are not physically able to enjoy sexaling, with others, as it is their karma to not be healthy enough to enjoy sexaling with others.

There are people with nervous system problems, and there are handicapped people, and elderly people, and people with all kinds of disabilities, who do not like or even think of sexaling.

In time, we will all get our karma straightened out, and we will work to erase it, as the years go by. In time, more and more, people will get healthy, once again, including me, and in time, people with fibromyalgia, and with other nervous disorders, autism, and all kinds of health problems, and physical handicap problems, they will all get better, and they will all learn about rejuvenating their bodies, and in time, we will all be living forever, in my universe, erasing our karma, and the karma of my working children, who do not have the time to work on it, themselves.

Erasing karma will be our main job, as there will always be lots of it to erase. There are my many worker animals in my universe, and who will erase their karma? We will. Every one who works for me, will give me some of their karma, and it will be up to us, the people living in this main central bus station terminal, to erase it.

Why are we stuck with the job of eraseing it? Because that is our only job. My kids have many jobs, and they keep my universe going. Now, with my religion, to help us, you will spend your energies, for eternity, working for me, and erasing the karma of my kids, and of my many worker animals. Other wise, our universe will not run well, and it will collapse, and come to a halt, and then we will not have any place to live.

You will all learn more about all of this, once you join the 'Managing My Universe' programs, and once you join the other programs we have, including the "Sexaling For A Living' programs.

Captain Off The Bridge.

John Francis Ayres
HIGH HOLY KING
EMPEROR
THE BOSS
GOD
And Kids

Kuvera, Kuon Ganjo Nyorai, Matreya,
Dai Swili, Daiya Nishi, Arjuna,
The G O D Guy, GOd

The Gurkian Way Foundation Ministry Institute
john_francis_ayres @ yahoo.com
Google Groups NewsGroup: http://groups.google.com/group/gurkianagegurkianway
Yahoo Groops NewsGroup: http://groups.yahoo.com/group/gurkianway/

Home:
5540 West Harmon Ave. Apt. #2004
Las Vegas, Nv. 89103
Tel: (702) 894-9518

Office:
GOD'S PLACE
JOHN FRANCIS AYRES
AND CHILDREN
GURKIAN WAY MINISTRY
West Tropicana Ave. and South Decature Blud.
Las Vegas, Nv. 89103

```
From -4969988042755312576
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!wn11feed!
worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!c2f328de!not-for-mail
From: "RMS" <root-mean-square@NOSPAMworldnet.att.net>
```

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Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>
<3b878$466d85ae$4e08769$26562@DIALUPUSA.NET>
Subject: Re: How to make a 3 Dollar Battery Charger
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <fccoi.179652$Sa4.42927@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: 7607e9b8e4f5fb17bffbc16e23e67e8c
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1184976779
7607e9b8e4f5fb17bffbc16e23e67e8c (Sat, 21 Jul 2007 00:12:59 GMT)
NNTP-Posting-Date: Sat, 21 Jul 2007 00:12:59 GMT
Organization: AT&T Worldnet
Date: Sat, 21 Jul 2007 00:12:59 GMT
Xref: g2news1.google.com uk.radio.amateur:120608 rec.radio.amateur.misc:37002
rec.radio.amateur.homebrew:13701


"Dr.Ace" <Ace@WH2T.com> wrote in message
news:3b878$466d85ae$4e08769$26562@DIALUPUSA.NET...
> 3 Dollar lead acid Battery Charger
> http://www.alpharubicon.com/elect/3dollarbattggn.htm
>
>   Ace, WH2T
>

Thank you!

RMS






From -6770592779330357262
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
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win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!newsfe3-
gui.ntli.net.POSTED!53ab2750!not-for-mail
From: Mike G4KFK <mikeSPAMFREE@g4kfk.co.uk>
Subject: Re: How to make a 3 Dollar Battery Charger
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>
     <3b878$466d85ae$4e08769$26562@DIALUPUSA.NET>
     <fccoi.179652$Sa4.42927@bgtnsc05-news.ops.worldnet.att.net>
User-Agent: pan 0.120 (Plate of Shrimp)
MIME-Version: 1.0
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Content-Transfer-Encoding: 8bit
Lines: 11
Message-ID: <5oGoi.758$ie3.194@newsfe3-gui.ntli.net>
Date: Sun, 22 Jul 2007 10:33:37 GMT
NNTP-Posting-Host: 82.0.190.39
X-Complaints-To: http://netreport.virginmedia.com
X-Trace: newsfe3-gui.ntli.net 1185100417 82.0.190.39 (Sun, 22 Jul 2007 11:33:37
BST)
NNTP-Posting-Date: Sun, 22 Jul 2007 11:33:37 BST
Organization: NTL
Xref: g2news1.google.com uk.radio.amateur:120683 rec.radio.amateur.misc:37022
rec.radio.amateur.homebrew:13702

On Sat, 21 Jul 2007 00:12:59 +0000, RMS wrote:

> "Dr.Ace" <Ace@WH2T.com> wrote in message
> news:3b878$466d85ae$4e08769$26562@DIALUPUSA.NET...
>> 3 Dollar lead acid Battery Charger
>> http://www.alpharubicon.com/elect/3dollarbattggn.htm

Don't try this at homes with 240V AC, kiddies!

73
Mike G4KFK



From -1150200077302670605
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!tudelft.nl!
txtfeed1.tudelft.nl!multikabel.net!newsfeed10.multikabel.net!xlned.com!
feeder1.xlned.com!border2.nntp.ams.giganews.com!nntp.giganews.com!
pe2.news.blueyonder.co.uk!blueyonder!pe1.news.blueyonder.co.uk!blueyonder!
fe2.news.blueyonder.co.uk.POSTED!53ab2750!not-for-mail
From: Mick <mick@mixtel.co.uk>
Subject: Re: How to make a 3 Dollar Battery Charger
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>
     <3b878$466d85ae$4e08769$26562@DIALUPUSA.NET>
     <fccoi.179652$Sa4.42927@bgtnsc05-news.ops.worldnet.att.net>
     <5oGoi.758$ie3.194@newsfe3-gui.ntli.net>
User-Agent: Pan/0.129 (Benson & Hedges Moscow Gold)
Message-ID: <pan.2007.07.22.16.39.18@mixtel.co.uk>
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
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Lines: 23
Date: Sun, 22 Jul 2007 16:39:20 GMT
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17:39:20 BST)
NNTP-Posting-Date: Sun, 22 Jul 2007 17:39:20 BST
Xref: g2news1.google.com uk.radio.amateur:120712 rec.radio.amateur.misc:37023
rec.radio.amateur.homebrew:13703

On Sun, 22 Jul 2007 10:33:37 +0000, Mike G4KFK wrote:

> On Sat, 21 Jul 2007 00:12:59 +0000, RMS wrote:
>
>> "Dr.Ace" <Ace@WH2T.com> wrote in message
>> news:3b878$466d85ae$4e08769$26562@DIALUPUSA.NET...
>>> 3 Dollar lead acid Battery Charger
>>> http://www.alpharubicon.com/elect/3dollarbattggn.htm
>
> Don't try this at homes with 240V AC, kiddies!
>

...even though it works if you pick a lower wattage bulb to keep the
charging current down. Not a good idea really. :-)

I've used series lamps a few times when testing "unknown" valve gear as
it helps keep the "holy smoke" inside the transformer box. Cheaper and
less noisy than fuses.

--
Mick                        (Working in a M$-free zone!)
Web: http://www.nascom.info   http://mixpix.batcave.net



From 4264761574947513397
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!cycny01.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc04.POSTED!291cd109!not-for-mail
From: Al <no.spam@wanted.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: How to make a 3 Dollar Battery Charger
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>
<3b878$466d85ae$4e08769$26562@DIALUPUSA.NET> <fccoi.179652$Sa4.42927@bgtnsc05-
news.ops.worldnet.att.net> <5oGoi.758$ie3.194@newsfe3-gui.ntli.net>
<pan.2007.07.22.16.39.18@mixtel.co.uk>
User-Agent: MT-NewsWatcher/3.1 (PPC)
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Lines: 25
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Date: Sun, 22 Jul 2007 18:15:34 GMT
NNTP-Posting-Host: 68.239.24.160
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc04 1185128134 68.239.24.160 (Sun, 22 Jul 2007 14:15:34 EDT)
NNTP-Posting-Date: Sun, 22 Jul 2007 14:15:34 EDT
Xref: g2news1.google.com uk.radio.amateur:120717 rec.radio.amateur.misc:37025
rec.radio.amateur.homebrew:13704

In article <pan.2007.07.22.16.39.18@mixtel.co.uk>,
 Mick <mick@mixtel.co.uk> wrote:

> On Sun, 22 Jul 2007 10:33:37 +0000, Mike G4KFK wrote:
>
> > On Sat, 21 Jul 2007 00:12:59 +0000, RMS wrote:
> >
> >> "Dr.Ace" <Ace@WH2T.com> wrote in message
> >> news:3b878$466d85ae$4e08769$26562@DIALUPUSA.NET...
> >>> 3 Dollar lead acid Battery Charger
> >>> http://www.alpharubicon.com/elect/3dollarbattggn.htm
> >
> > Don't try this at homes with 240V AC, kiddies!
> >
>
> ...even though it works if you pick a lower wattage bulb to keep the
> charging current down. Not a good idea really. :-)
>
> I've used series lamps a few times when testing "unknown" valve gear as
> it helps keep the "holy smoke" inside the transformer box. Cheaper and
> less noisy than fuses.

I use a variac and monitor the current as I turn it up.

Al


From 1242441403605694800
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder3.cambrium.nl!feed.tweaknews.nl!
80.86.168.138.MISMATCH!news-feed.eu.lambdanet.net!nntp-peering.plus.net!ptn-nntp-
feeder01.plus.net!ptn-nntp-spool01.plus.net!ptn-nntp-reader02.plus.net!not-for-
mail
From: "the_constructor" <the_constructor@beeb.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <Bib7i.5640$rW2.4371@newsfe7-
win.ntli.net><3b878$466d85ae$4e08769$26562@DIALUPUSA.NET><fccoi.179652$Sa4.42927@b
gtnsc05-news.ops.worldnet.att.net><5oGoi.758$ie3.194@newsfe3-gui.ntli.net>
<pan.2007.07.22.16.39.18@mixtel.co.uk>
Subject: Re: How to make a 3 Dollar Battery Charger
Date: Sun, 22 Jul 2007 22:14:31 +0100
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X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 000758-3, 22/07/2007), Outbound message
X-Antivirus-Status: Clean
Lines: 39
Message-ID: <46a3c8b1$0$1631$ed2619ec@ptn-nntp-reader02.plus.net>
Organization: Customer of PlusNet plc (http://www.plus.net)
NNTP-Posting-Host: e7ddfaef.ptn-nntp-reader02.plus.net
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[OUCD]ga9]4K3f6EOBi61[^UbiE8okcD@1`UBGfYVDZJaUfW@
X-Complaints-To: abuse@plus.net
Xref: g2news1.google.com uk.radio.amateur:120732 rec.radio.amateur.misc:37031
rec.radio.amateur.homebrew:13705

"Mick" <mick@mixtel.co.uk> wrote in message
news:pan.2007.07.22.16.39.18@mixtel.co.uk...
> On Sun, 22 Jul 2007 10:33:37 +0000, Mike G4KFK wrote:
>
>> On Sat, 21 Jul 2007 00:12:59 +0000, RMS wrote:
>>
>>> "Dr.Ace" <Ace@WH2T.com> wrote in message
>>> news:3b878$466d85ae$4e08769$26562@DIALUPUSA.NET...
>>>> 3 Dollar lead acid Battery Charger
>>>> http://www.alpharubicon.com/elect/3dollarbattggn.htm
>>
>> Don't try this at homes with 240V AC, kiddies!
>>
>
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>
> I've used series lamps a few times when testing "unknown" valve gear as
> it helps keep the "holy smoke" inside the transformer box. Cheaper and
> less noisy than fuses.
>
> --
> Mick   (Working in a M$-free zone!)
> Web: http://www.nascom.info   http://mixpix.batcave.net
>

I used to have a pal called OXO, Jim G6EQK, who used to use something of a similar device to the 3 dollar battery charger on TV tubes when they went flat.

--
the_constructor

Don't tip it, recycle it. Join your local group.

http://freecycle.org/display.php?region=United%20Kingdom

From 3691116166287229864
X-Google-Thread: 10e8c9,24588f7c8f7033ad
X-Google-Thread: 116029,24588f7c8f7033ad
X-Google-Thread: 107568,24588f7c8f7033ad
X-Google-Thread: fc2a5,24588f7c8f7033ad
X-Google-Thread: fec2a,24588f7c8f7033ad
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X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!d55g2000hsg.googlegroups.com!not-for-mail
From: Ron <ryon@quik.com>
Newsgroups: alt.startrek,alt.tv.star-trek.tos,alt.tv.star-trek.voyager,rec.radio.amateur.homebrew,alt.politics.usa.republican
Subject: Re: Bomb All Democrats And Republicans! Destroy Capital Hill! Fuck Them In The Ass And In The Mouth! Kill Them All! Bomb Formulas Can Be Found On My Bulletin Board!
Date: Sun, 22 Jul 2007 17:06:35 -0700
Organization: http://groups.google.com
Lines: 1866
Message-ID: <1185149195.095769.101210@d55g2000hsg.googlegroups.com>
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Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1185149195 15993 127.0.0.1 (23 Jul 2007 00:06:35 GMT)
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NNTP-Posting-Date: Mon, 23 Jul 2007 00:06:35 +0000 (UTC)
In-Reply-To: <1184957971.292119.68770@x40g2000prg.googlegroups.com>
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Complaints-To: groups-abuse@google.com
Injection-Info: d55g2000hsg.googlegroups.com; posting-host=216.239.165.156;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com alt.startrek:25826 alt.tv.star-trek.tos:28827 alt.tv.star-trek.voyager:5949 rec.radio.amateur.homebrew:13706 alt.politics.usa.republican:560958

On Jul 20, 11:59 am, JonJon <john_francis_ay...@yahoo.com> wrote:
> The Medical Community's Cheap Trick - What Is The Shank? -
> Discoloration Of Sexaling Organs - Sexaling And Prayer Statements -
> The Butt Hole Sexaling Organ And The Shank Sexaling Organ - Nerves -
> Nerve Units As Living Beings, I.E., Creatures - Brains And Notational
> Thoughts - Feeding The Organ Kiddies The Foods They Need - If We Were
> Able To Be Born With "Owner's Manuals" For Our Body And Brains -
> Duplicator Tests - Sexaling With Family And Friends - Massaging The
> Butt Hole And Shank - Sending Hillary And Obama On Their Final Rides -

> Explosives To Kill Hillary Clinton, Obama, George Walker Bush, Jr. Barbara Bush, Jr. And All The Congressmen and Congresswomen, And All The White House Staff, Etc. - A Note On Hillary Clinton, George Bush, Jr., Barbara Bush, Jr., And A Number Of Other Lesbianists - What To Do, Now? - Compliance With The General Terms Of Their Settlement Agreements Persons Who Wish To Participate In The Former Sexaling Program - Qualified Card Carrying Members - Zealot Updated: 23-06-07 Rev.d 20:50 PDT
>
> The Medical Community's Cheap Trick
>
> A cheap trick played on medical doctors and students, untill they meet up with a human cadaver, is the cheap trick or lie that is perpetrated by the medical establishment on students of the medical profession.
>
> How students of the medical profession stay quiet, after learning the truth, I do not know. It is a matter for each doctor to reflect upon, and for each medical student to reflect upon, and come to a reasonable answer for him self or for herself.
>
> In other words, are they going to tell the truth or not. It recently came to my attention that the medical community is foisting, or purposely telling a lie to the public, with regards to the internal organs of the human body.
>
> In particular, a stomach is not made up of twisting, turning, guts, or intestines, that go to one side and then downwards, and then side ways, and so forth, as depicted in this particular picture, of the so-called large and small intestines.
>
> Please see, "Anatomy of the Large And Small Intestines"
>
> http://medpics.findlaw.com/generateexhibit.php?ID=3D1696&ExhibitKeyword...
>
> A similar faked drawing of the tummy tube, or shank, the descending colon tube, which is titled "intestines", along with a faked stomach drawing, by the Lesbianists and their bogus 'medical' establishment, can be found at:
>
> http://medpics.findlaw.com/generateexhibit.php?ID=3D23&ExhibitKeywordsR...
>
> Another bogus drawing of the abdomen and the supposed 'intestines', can be found at,
>
> http://medpics.findlaw.com/generateexhibit.php?ID=3D13860&ExhibitKeywor...
>
> These pictures, and all other pictures like it, are totally bogus. There are no guts, bending and twisting to one direction, and then to another direction, that eventually find an outlet at the poop hole in the human body.
>
> Chimps, apes, and monkeys may have these types of stomach 'tripe' that is longish, twisting to one side or to another, going back and forth,

> and then wrapping or folding down under other tummy tubes, and then twisting in and then moving outwardsly, as chimps, apes, and monkeyes live on banana foilage, twigs, seeds, hard shells, and other difficult to eat, hard, rubbery, plant roughage, of one kind, or of another. Some oselots may have this kind of tubeing, and so may many other animals, but not the human being.
>
> In the human being, there is in reality, no such guts or tripe tubeing, and there is what is called a 'shank'. A shank is the human being's tummy tube, or the desceding colon tube.
>
> Your tummy tube descends from the front right side of the tummy, in the near to upper to middle to near lower area or section of your tummy, depending on the person. Some people, may have their tummy tube, the ejector pipe, also called the descending pipe, a little higher up, than other people. Some people may have their ejector pipe a little lower than other people. That is not significant.
>
> The muscles inside of the tummy, and surrounding the tummy, cause a pushing motion, to eject the tummy food, that has made its way to the back side of the inside of the tummy, and to the lower or middle area, near the eject pipe, on the inside of the tummy. Once your tummy food makes it there, the muscles begin to squeeze on it, and the muscles on the inside and on the outside, squeeze on it, and force it up and out of the ejector pipe, and down a chute, or the descension colon pipe.
>
> The descension colon pipe goes in a nearly straight line, almost perfectly straight, in some people, directly to the out put terminal, which is the poop hole.
>
> The intake for food and beverages from your lips, mouth, to your throat, or food pipe to connect your mouth to the tummy, that connector location is on the top side of the tummy, on the left side of your tummy, as you face forward. There is a tiny amount of terminal area, that's your stomach area, that is the terminal area, on the top side of the tummy, that is to the immediate left of the intake tube terminal entry way, itself. That means, there is a descending tube from your mouth to your stomach, and it connectes to the left side of your stomach, not all the way to the left, but nearly all the way to the left side of the stomach, but on the top, generally, and in some people's cases, it is a little down, from the top, less than an inch or two from the top.
>
> So the intake tube from your mouth sort of goes in to your tummy, from the front of the tummy, a little lower than from the top side edge of your tummy. The top edge of your tummy is located just about at the same height as your titty nipples are located on the chest. The little inwardsly pointing, dimple, in the middle of your chest, a very large dimple, just above where the rib cage begins to open up and spread apart and where the tummy muscle cavity can be felt, that dimple, or inwardsly pointing cavature, or the caving inwardsly of the chest bones in that area, some times slightly below, sometimes slightly above that point, is where the tummy's top edge is found. The tummy's

> top edge runs horizontally, more or less, across from one side to the
> other. It does descend at the outer edges of the tummy, to form a
> pouch system.
>
> A bogus drawing of the Lesbianists' pretend 'esophagus' for all the
> med school students to ponder over, and of a pretend tummy, which has
> the connections on the back side, where they are not located, but on
> the front side, where they are located, can be found at,
>
> http://medpics.findlaw.com/generateexhibit.php?ID=3D4599&ExhibitKeyword...
>
> The tummy does not look like a cashew peanut, like in the drawing. It
> is a pouch, and it is more oval in shape, kind of like a box, but a
> little long or rectangular, some may say it is similar in shape to a
> peanut, or to a raisin, or to a plumb, and it runs lengthwise from one
> side to the other, with the narrow part of the oval running
> horizontally. It is nearly a perfect, very slightly long, oval in
> shape.
>
> The descending colon pipe, your tummy tube, which goes nearly in a
> straight and almost perfectly vertical, in many cases, direction, to
> your poop hole, from the ejection outlet port of your tummy, which is
> on the front side of the tummy, on the front right side, as mentioned
> above is very long, and in some women, the tummy rests slightly higher
> up, a tiny bit, to allow for a longer 'shank', or sexaling tube.
>
> ## What Is The Shank?
>
> The shank, if we look at the opening and entrance to the shank, the
> butt hole entrance, the shank is a multiple duty, instrument. It is a
> nearly straight tube, and it allows food to exhaust from the tummy
> pouch. It also allows a dick to be placed up into it from the rear
> upwards, and a dick can be very long, in some cases, and there for,
> the tummy tube, or shank, is very long, and also, importantly, it is
> generally straight in most women and girls and in lots of men and
> boys.
>
> ## Discoloration Of Sexaling Organs
>
> If we look at the dick, or if we look at the scrotum, we will see it
> is a darker, slightly discolored body instrument. The vagina is
> slightly discolored, and so are the titty nipples. So are the lips,
> the inside of the mouth, the throat inside, and in various other
> places, depending on the person. The palms of the hands, the
> undersides of the fingers, the soles of the feet, the toes, the ears,
> the cheeks, and the underarms of people are all discolored to one
> extend or another. The discoloration is an indicator of the fact that
> these sense organs, or love making instruments, are major sexaling
> instruments. The other organs of the body, are minor sexaling
> instruments. All of them, are sexaling instruments when you activate
> them, by massaging them, and by rubbing them, and so forth, and they
> will begin to shoot off energies, and those energies will purify and
> holyfy your life and clear up your karma and the karma of the people

> around you as those energies will shoot out in all directions cleaning up my universe, as they go zinging outwards. The energies will erase your karma, over time, and if you pray with a prayerful minded statement in mind, while sexaling, your karma that is related to that prayer, that needs to be erased, will get erased, little by little. For examply, "I pray that I will be able to have the good health and prosperous life, that will allow me to live, comfortably, and without distress."
>
> ## Sexaling And Prayer Statements
>
> The negative karma that you have, that would prevent you from living a healthy life, that is also prosperous, and without distress, will slowly, over time, get erased, as you make your statement, every time you begin sexaling, or every time you begin a sexaling session. If your sexaling sessions are going to go for days, say, three to eight days, for instance, you might want to repeat the prayerful minded statement, every eight to twelve hours, to fifteen, to thirty, to fifty hours, or so, to 'freshen' it up, once every so often. The more you freshen it up, the better it will work. The prayer will apply to not only you, but to every one else who is sexaling, if you say, "I pray that I and every one else will be able to have the good health and prosperous life, that will allow not only myself, but all other people, as well, to live without distress." This statement is a bodhisatva minded statement, and it will produce better results. Prayer statements said with others in mind, in addition to your self, produce better results, as a general rule. Why is that? Because we want to purify not only your karma, but every one's karma, and you get extra points for thinking about every one else and their needs, as well as your needs. Not only your self, but every person who is sexaling, during the time you are sexaling, and during the time, you continue or plan to continue sexaling, as one long sexaling session, will benefit from this prayer statement.
>
> ## The Butt Hole Sexaling Organ And The Shank Sexaling Organ
>
> The butt hole is also discolored, in all human beings, and that is an indicator that the butt hole is a sexaling organ.
>
> The discoloration of the butt hole entrance, is an indication of the fact that the butt hole entrance is a sexaling organ. If we look inside the butt hole, we will notice that the entire length of the 'shank' is discolored, and therefore, the entire shank is a sexaling organ. Sexaling organs are different in coloration, than the normal skin coloration of the body.
>
> The discoloration is due to the fact that there are a gazillion plus tiny blood carrier veins and arteries, that are very tiny, so tiny, you can not see them with today's 'current' medical microscope technology that is in the hospitals and labs, used by doctors, scientists, and lab technicians. These tiny blood 'capillaries' or fluid flow ductways, are too small to be seen by a doctor's microscope, or by a lab technician's microscope. These fluid flow

> ductways, or capillaries, are all clustered together, in high densities. When they cluster together, that is for a purpose.
>
> They are clustered together in high densities to allow for fluids to flow to the nerves in that area of the body to feed all the mouths in the nerves of that area of the body. There are clusters of sense nerves that are extremely dense, in all the sexaling organs. Where there are high densities of sexaling nerve clusters, there are lots of fluid flow ductways, or capillaries, and the area of the skin that is visible to your eyes, will show a slight to moderate, to heavy discoloration, due to all the fluids flowing through the area, carrying food and nourishment.
>
> ## Nerves
>
> Nerves are organs in them selves. The smallest nerve organ is a nerve cell, perhaps. My memories are not very good, so we might find smaller nerve organs, as my memories improve. A nerve cell has all the organs in it, to allow it to function as a normal, living being. That means, it is alive, and it thinks, and it cogitates, or mulls over thoughts, and it considers, for instance, 'What am I going to do, now', and it has lots of thoughts, and it stays busy doing lots of thinking, and by doing lots of cogitating, and by doing lots of communicating with other nerve cell organ kids of mine.
>
> ## Nerve Units As Living Beings, I.E., Creatures
>
> Nerves, just as nerve cells, form units, and as a unit, they form a living being, or creature, and all of them have mouths, since all my creatures have mouths, and they all need to be fed.
>
> The sense nerves, the erotic nerves that are clustered together, need to be fed the foods and nourishment that they need to be healthy and fit, so as to be able to respond, to stimulus. They need to eat to be healthy, so that they will then be able to respond when stimulus is applied to that area of the body, where they are located.
>
> Each organ in the body, has a brain, and a mouth, and a stomach, and a poop hole, and a pee hole, and all the other organs they need to survive with.
>
> Some organs, maybe all of them, need to feel comforted by other organs, i.e., creatures of the same kind as they are. Some organs like to not only speak to other organs creatures who are like them, but they also like to snuggle up to one and another, and they get cozy with one and another, all snuggled up, suddenly, before any one new it, pwoop, and they make a baby organ or creature who looks like mommy and daddy.
>
> Organ creatures of course can sexal, because if they could not, they could not make baby organ creatures. Organs can sexal just like human beings can sexal, but they sexal in their own particular ways. They like to sexal, just like human beings like to sexal, and they also go

> ouch, when some one or some thing pokes them, or pricks them, such as the doctors needle at the doctor's office.
>
> Each nerve cell is built with all the organs it needs to survive, and each organ is built with all the organs it needs to survive. The number of organs in the human body is almost limitless, but not quite limitless, as you can still count them, all, if you have the time.
>
> ## Brains And Notational Thoughts
>
> Each organ is a living being, or creature, with a brain, and with notational thoughts. Notational thoughts are memo types of thoughts, such as about, 'oh, boy, that sure felt good', or 'golly, gee, I am really bored'.
>
> One notational thought, for instance, that is of use to you, is when you are in need of water, and you begin drinking water, when you get the feeling that you need lots of water, and you get a message to your brain that you are in need for water, because you know you are low on water, and almost out of it, well, the inspirational thought that tells you, "keep drinking, keep drinking, you are too low on water" that is an inspirational thought, that your tummy and its brain is passing on to an area of your conscious mind, where you can then pick it up, and then act on it.
>
> There are many kinds of notational thoughts organs can have and organs can pass on to our 'brains'. Organs, as living beings, also do lots of chit chat with other organs, not only with the organs inside of your own body, but also with the organs inside of the body in other animals. Brains are brains, and they are very smart, if they are to do the duty they are assigned to do, which requires them to be smart. They are so smart, they spend a lot of their time, communicating and chatting with other organs, to see if every one is alright, and to find out what the latest gossip is. They can do many things, and that is the topic for another time. But one thing they can do is talk to each other. They have their own languages, they speak to each other with. Did you know that? I bet you didn't. If you are a Lesbianist, you may probably know this, as you probably studied about it, in your school days. Some kids, five or six years old, study these things, on planets, where education is up to the standard, that I set it at.
>
> If we understand that brains are in every organ in the body, and some organs, have multiple brains, almost all of them do, and if we understand that they are able to communicate to each other, than we can understand that the vagina is a living being, and it has a brain, and it talks with other vaginas, in other women and in other girls. The dick has a brain, too, and it talks with other dicks, and it talks with vaginas, as well, when a vagina calls to a dick, and asks it questions.
>
> ## Feeding The Organ Kiddies The Foods They Need
>
> We need to feed the body, many foods, not only tomatoes, potatoes,

> asparagus, meat, and fruit, etc., but we need to feed foods to our
> body for feeding the organ kiddies, the organ animals, the living
> beings, or creatures with brains, called organ kiddies who are inside
> of our body.
>
> What are we doing when we feed the body? We are supposed to be feeding
> not only our face, loading food in that tastes good to us, and to our
> sensibilities, but we are also supposed to be feeding the animals that
> live in side of us, as well as, we are supposed to be feeding the
> organ kiddies, who also need food to stay alive. We also need to be
> feeding all of the other animals kiddies, the living creatures of
> various kinds, that are living inside of our bodies. Most organ
> kiddies are on a starvation diet, nearly, and they survive on nearly
> only water. Some are lucky and get some pee and poopy juices from
> animals that live inside of our bodies.
>
> Most of the organ kiddies are not lucky, and they languish, from day
> to day, with nothing to eat, and they hang on, and they do their best
> to perform for us, but in the end, they are defeated by our not
> feeding them, and they give out, and give up, and throw in the towel,
> and say, "To hell with it. I don't care anymore." and with that, they
> cancel their agreement to work with us, and they say good bye, and
> they then slowly perish, and as they do, so do we. We perish because
> we do not feed the organ kiddies in our bodies, and because we do not
> feed the cell kiddies in our bodies, and because we do not feed the
> amoebe kiddies in our bodies. If we feed them all, we would not die,
> and they would continue to live, properously, and progenerate, or give
> us babies, to take over the jobs of mom and pop, Sr., the first organ
> kiddies in our bodies, who want to work with us, and who want to be
> fed, while they work for us, when mom and pop, Sr. are near the end of
> their run, that is their work life, and when it is time to call them
> in to my Epcot Centers for them, for them to get their check up, and
> repairs that they need, to their brains, and to their nervous systems,
> and to relieve them of any undue or unwholesome stresses, nervous
> tension, migraines, and so forth.
>
> You might be thinking, "This is a joke", but it is not a joke. You are
> completely wrong if you think this is a joke. If you feed the foods
> that organ kiddies like to eat, to them, they will become alive with
> activity, and they will work hard for us, and we will feel a new sense
> of vitality, and we will regain our good humor, to some extent, as it
> is a karmic issue here, as well, having a good humor, or a pleasant
> personality, and when it is time for mom and pop, Sr., organ kiddies
> to pass on the work load to baby Mac, and baby Sarah, organ kiddies,
> Jr., they will pass on the work load to them, and Poppa and Momma will
> retire and make their way, with assistance from their kids, and with
> assistance from my kids, to my Epcot Centers for them.
>
> This is a complex topic to discuss, and I won't try to discuss it in
> full, obviously, as I am too stupid, and my brain is not working, and
> I can't remember every thing about it, obviously. But, you should
> know, that if you feed them the molds animals, the molds fruits and
> gardens produce, and the funguses they like to eat, and that they

> enjoy eating, and the other foods that they eat, from fermented mash, made correctly, and from molded foods, and from molded breads, molded chesses, properly cooked meats, and so forth, they will feed on the animals in that food that you prepare for them, and you'll get healthy, and they'll get healthy, and they'll live for three hundred to eight hundred to fifteen hundred years, or more, depending on which ones you are talking about, and they will work for you, with zest and vigor, before it is time to hand over the work load to baby Mac, and baby Sarah, organ kiddies, Jr.
>
> If We Were Able To Be Born With "Owner's Manuals" For Our Body And Brains
>
> We are not born with an owner's manual for our body and brains, etc. If we were born with one, we would be told that if we feed our body properly, the body will last us forever, and we will be able to live forever. This is the norm for the human body. It is not a 'dream' or 'hope', or 'wish'. It is merely the truth, and once you learn how to feed your body, and all of the animals and creatures inside of your body, you will begin to make all the animals and creatures inside your body, happy, and they will begin to work for you, as they were intended to work for you. They are all my worker animals, and they are here to work for me. I have many worker animals, and we will learn about all of them, and we will find those who we need to help us feed our bodies properly, so that we can all live in the body that we were born in, that is meant to last you forever, if your feed it and nourish all of the animals in it, properly.
>
> If you do not feed my worker animals in your bodies, the nutrients, the animals and the plants animals and the foods that my worker organ animals in your bodies like to eat, that will allow my organ worker animals, and all of my other worker animals, to live with vigor and tenacity, strength and good health, they will not work very well for you, and in time, they will all perish, and so will you. I mentioned my worker animals in the molded foods, molded fruits, molded citrus fruits, fermented beverages, and so forth, that we will be making. They are all there in those foods that we will make, and then use to feed ourselves with, to then help feed all my worker organ animals, my worker cell animals, and other worker animals, that are in your body, and that need to be living in your body, working hard for you.
>
> If you do not feed them the foods that they like to eat, they will not live for long, and they will perish, and die, and that will be that, and you will not have a chance for living more than a hundred or two or three hundred years, in that body of yours, if your karma is good, and if you were not being poisoned by the petro chemical industry, and the chemicals industries, and by the foods manufacturing industries, and by the pharmaceutical manufacturing industries. We will never hear the Lesbianists admit that they are intentionally poisoning us, but they are.
>
> Once you find a way to survive on molded up, wholesome natural healthy foods, with no pesticides, and on water that is not chlorinated, and

> that is wholesome to drink, and after you learn the abc's of proper eating, to feed every one in your body, as well as you, then you will not die and you will begin to live forever.
>
> The Lesbianists are afraid that you will learn to eat properly and then, when you begin to get your diet together, not only for your self but also for all the animals and organ kiddies in you, and for all the cell animals in you, or cell creatures, who are smart living beings, by the way, you will begin to be able to extend your longevity, and then, in time, you will be able to live forever.
>
> If you stop drinking the poisonous coffee in the office, as I've explained about, previously, the Lesbianists make it with diesel fuels, and with gasoline, and with kerosene, if you stop smoking the poisoned cigarettes, if you stop using the plastics furniture, and other plastics products, if you stop inhaling the gasoline fumes kiddies that cause fibromyalgia, and fumes animals cause the sharp pains in the body as the fumes animals eat up and destroy the organ animals in the body discharging energies or electrical currents, as they mate, and as they sperminate, and vagicate, or eject female animal sexaling juices, like some jelly fish do, and like some deep sea snakes, and worms, that are lit up, with pulsing lights in them, when they mate, do. Fumes animals also cause arthritis, ligaments problems and diseases, and other health problems. If you stop inhaling the plastics fumes kiddies, which also give you fibromyalgia, arthritis, etc., and kill brain cells, and cause brain rot, Alzheimer's disease, and parkinson's disease, and a number of other illnesses, and if you begin to eat properly, in accordance with the proper rules for diet, that our body and brain owner's manuals would explain about, if we were to be born with these manuals at the time of our birth, then, you will begin to get healthy, and you will begin to live forever.
>
> So, good luck, and do not vote for Hillary Clinton, or any of the other presidential candidates, and if you see them, give them a beaver cheer, some people call it a 'Bronx cheer', and the noise you make sounds like someone farting in their direction. That may sound childish to say, but it is what the Lesbianists deserve as you are being played for a fool, every day of your life, and you should snap out of it, and do some thing about it, as soon as you and your friends can get it together to begin sexaling, in the ways I've explained about.
>
> Duplicator Tests
>
> In a duplicator test, there is one strand of a piece of the body, and you take that strand, and with medical and scientific technologies, you attempt to make a copy of it.
>
> Why do they make a copy of a strand of a piece of a human or ape, monkey, dog, or cat, etc., body?
>
> To test for various possibilities as to who the strand came from and

> how the strand came from the source, and what has happened to the person, if it was a person, if the person is no longer here to stand in for himself or for herself, in the case of a missing person, for instance.
>
> What is meant by a strand of a piece of a human, etc., body. Usually, a piece of flesh is a good place to start. A clipping from a person's finger nails, can be duplicated, if the sample is tiny enough, and it can be analysed, and then compared with an original shard or piece from a person's finger nail, a known subject's finger nail, and then a match up can either be made, or not be made.
>
> Human blood cells can be duplicated and matched. Human skin tissues can be duplicated and matched. Human organ tissues can be duplicated and matched.
>
> These matching tests are in fact, one example of a organ animal giveing birth to a baby organ animal, or to a number of baby organ animals.
>
> I'm not sure what they call the test, in the laboratory, but that is a duplicator test, in my vocabulary, and it should be a simple test that all county, municipal, and other police medical technical labs, forensics labs are capable of performing.
>
> This example of a matching print from the one strand of a piece of the body, is an example of organs animals, giveing birth to baby organ animals.
>
> Red blood corpuscles, are often tested, in this manner, I believe. A corpuscle is an organ animal, and it will give the same results, and you can make baby blood corpuscle organ animals.
>
> A high school, or jr. high school science lab technician or teacher, or in some school labs, including jr. college science labs, and technical labs at medical technical schools, teaching assistants, should be able to perform this test as it is a simple test to learn how to perform, and even off duty police officers, are taught it, in their free time, for fun, or for advancing their career. Licensed Practicing Nurses (LPN's) generally know about this test, and so do all doctors as well as your general medical school student, and two year college, or four year college, nurses course students. Botanists know or should know this test, and there are many professions where in this test is common, such as in paleontology, the study of human remains, bones, and so forth. I don't know what people on this planet, understand a paleontologist (Note: 'paleo-entologist' I think may be the correct spelling, but I'm not sure) as, but in my vocabulary, as it is comming back to me, a paleontologist explores and investigates old bones, fossilized bones, old grave sights, and so forth.
>
> Elementary school students, and maybe some kindergarden school students, in advanced kindergarden schools, such as in Japan, and in Europe, and in different countries around the world, can do this test,

> if their science lab teacher lends them the technical books, and tools to take home, study, and then show the family and parents, how a duplicator test is done. It's not a difficult test to perform, if you can read, and if you know what a beaker is, and so forth.
>
> This will give you a start for the search for proof as to whether or not there are organ animals in the human body, and in all animal body's and in all living being's bodies. It will provide proof that organ animals, once you've identified them, can in fact give birth to baby organ animals.
>
> There are a number of types of duplicator tests, lab technicians perform, in their day to day job routines, in medical labs, and the duplicator tests are generally for making comparisons, of one type or another, or for one reason, or another. They all give the same results, they provide you with proof that organ animals do exist in the body, and that organ animals do make babies.
>
> ## Sexaling With Family And Friends
>
> Sexaling with your family, relatives, trustable neighbors, and so on, will help you to begin to erase your karma, if you begin your wholesome, purifying, and holyfying sexaling with your family, relatives, kin, trustable neighbors, and others who are trustable. As you erase your karma, little by little, you will begin to get better karma, and you'll begin to be able to get rid of these Lesbianists who make fools of all of you, and who toy with you, one life after another, as you go into my Epcot Center, and then come out again, as a tummy baby to a tummy mommy and to a tummy daddy, on a fairly predictable basis, meeting up with your former friends and colleagues, over time, and then going through the six, or ten, or twelve, or forteen, or sixteen, etc., years of schooling, each time you come out, to lead a very short life span, with, once again, all of your organ kiddies and other animals and living creatures in you, nearly starving to death, the whole time you are out here, with your friends, playing, golf, swimming, playing tennis, football, entertaining the Lesbianists, and so on, until it is funeral time, and then back, once more and into my Epcot Center, until a new tummy mommy and a new tummy daddy, are waiting and ready for you to come out again.
>
> This is not a joke, I need to repeat, and you should start thinking about doing something to bring a stop to this abuse of your organ animals and other living creatures in you, and to bring a stop to the abuse of you, by the Lesbianists who will not tell you how to do any thing that is good for you and that is good for your health.
>
> ## Massaging The Butt Hole And Shank
>
> If you work massaging the butt hole for a few hours, fluids will begin to form, and the tissues of the shank, and of the butthole, will become more pliant. They will become stretchable, and they will, after a number of hours of massaging the butt hole, and the inside of the butt hole, little by little, as you insert a dick up the hole, as it

> gives way, and becomes more pliant, after a few hours, or so, it will
> soon be able to become opened up completely, and a dick can then be
> inserted and the shank then becomes a sexaling tube.
>
> On the end of the dick, there is a 'pooper scooper', or head level
> scoop pipe. The head level scoop pipe is the peculiar shape of the
> dick at the tip of it. This shape allows you to insert the head of the
> penis into the butt hole, and then take a wee wee, and then mush up
> all the food that is stuck in the cavity, and after a little mushing
> up of the food in the tummy pipe, or shank, you can then begin to
> scoop it out, little by little, with one dick shovel head, after
> another.
>
> After seven or eight dicks, to twelve to thirteen, or so, on the job,
> pumping, and peeing, and scooping out the poop, and ejaculating, as
> well, you can eventually scoop out most of the poop from the shank.
> Some may remain near the top, so a few more pee pee's into the butt
> hole, will help wash out the tummy tube, and it will become clear and
> free of digested food matter.
>
> The large and small, i.e., the meaning or intent of this paper, or
> note, is to let you know that the poop hole is a sexaling organ, and
> that the poop tube is a straight tube, and not a twisted up, bundled
> up, chimpanzee, or oselot guts piping, or bear guts piping, or horse
> guts piping, or pigs' guts piping, or cows' guts piping, as the
> medical community, would like to have you believe, along with the
> hoards of bible thumpers, who colluded with the Lesbianists of the
> medical community, to keep you in the dark ages.
>
> You are being played for a fool, every day of your life. If you can
> allow the Lesbianists to make a fool of you, every day of your life,
> and if that is alright with you, than go right ahead, and play their
> game, and let things stay as they are, but if you are not willing to
> allow them to make a fool of you, then you had better get busy,
> sexaling, and so forth, as I've already told you what we need to do,
> to help bring about the changes we need to make.
>
> Sending Hillary And Obama On Their Final Rides
>
> A vote for Hillary Clinton for president is a vote for stupidity, on
> your part. A vote for Obama for president, is a vote for stupidity, on
> your part. Now why doesn't somebody kill Hillary Clinton, or Obama, or
> both. I just do not understand. Do you? I don't.
>
> Next time you see Hillary, you can ask her if you can open up the
> front of her chest cavity, and take a look inside to see if she has a
> shank, as I described it, or if she has a twisting and turning, animal
> type set of guts, like many animals do. I think you'll find that she
> has a 'shank', and not a twisting, turning, animal set of guts.
>
> All human beings have shanks, and not one human being has a set of
> 'animal' guts. Human beings have shanks for fuckaling, that is, butt
> fuckaling, but no one, except the Lesbianists, know about it, and as a

> result, no one ever thinks about butt fuckaling, as a type of sexaling enjoyment, and a sexaling past time.
>
> Explosives To Kill Hillary Clinton, Obama, George Walker Bush, Jr. Barbara Bush, Jr. And All The Congressmen and Congresswomen, And All The White House Staff, Etc.
>
> Well, I have told you about many bombs you can make, on my web site, and I suggest you begin to think more seriously about taking out Hillary's cavalcade of automobiles, next time she is riding through Washington DC. Or the next time you see Mr. Obama, please consider blowing his cavalcade of cars and limousines, up and out of the upper solar atmospheres, with the bombs you can make, as already explained about, in my notes, on this bulletin board.
>
> After you blow them up into bits, and pieces, they will be fine, as they will soon be coming out of my Epcot Center, as tummy babies, and they will be two less threats to the ordinary and normal people on this planet, for some time to come.
>
> A Note On Hillary Clinton, George Bush, Jr., Barbara Bush, Jr., And A Number Of Other Lesbianists
>
> Before you blow up Hillary, find out if she is with us, on this, or what. I think Mr. Obama is not with us, yet, but it may be the case that Hillary Clinton, along with a lot of her friends, is now on board, and she is hoping to set sail with the rest of us, but is not quite able to break away from the Lesbianists' and their organization, since she has been a friend with them, and a member of their organization for umpteen millions, billions, trillions, and zillions, plus years, since long before they ever even came to this planet, to settle it. These people, Hillary Clinton, and a number of her friends, are ready to make the change over, but lots of Lesbianists are not ready to make the change over, and so Hillary Clinton is kind of stuck, and so are all the other Lesbianists, who want to make the change over, and who want to say good bye to their former organization.
>
> In any case, this planet is crawling with animal people of all kinds, as I've mentioned, and it is a very unpleasant situation, and the Lesbianists know this, as most of their membership has already been eaten up by animal people, and there are many types of animal people. Many of the animal people who ate up the Lesbianists below ground, are walking around, as they imitate, or take on the form of human beings, after they eat one. Not many of the original Lesbianists are still alive, down below the surface of this planet, in their underground cities, as I've recently learned, as most all of them, close to ninety nine plus percent to nearly one hundred perecent of the Lesbianists down below the surface, have already been eaten up. There are still a lot of Lesbianists down below us, below the surface, but compared to the numbers of them who were there, before, there are fewer, now.
>
> What To Do, Now?

>
> I thought my kids were ready, with an underground system of 'safe harbors', but it seems there is a delay, and I'm not sure when the delay will be resolved. Until it is resolved, I guess we are stuck where we are. So, the only thing to do is to get the government to make the needed changes, and to step up to the microphone, and denounce the Lesbianists organization, by telling every one that it exists, and that we will now build a one world, government. When the politicians decide to do that, and when we begin building a one world government, then maybe we will begin to see some resolvement to this situation.
>
> I have some more ceremonies to do, and I have a lot of time to wait, till we see a resolvement to this situation. The additional ceremonies will assist us in making a safe harbor, as far as I have heard, that is fully integrated, and that has all the protection and safety systems that will be needed. All the different components to the fully integrated system, for covering our immense universe, all at the same time, are not available, yet.
>
> There is a lot to learn, about who else lives in our universe, and about where my kids live, and about what my kids do for me, keeping my universe running for me, along with a lot of other information, for you to get and read, and then understand, about my kids.
>
> As soon as the local, or federal governments around the world release the software that will allow people to upgrade to the 'Managing My Universe' software upgrade, from the databases, that are located in the underground bunkers the Lesbianists used to use when they first arrived, and when they were in the 'sexaling for a living' program, which all of them were in, when they arrived. These databases are also located on other planets where there are bunker systems, and where there are communities of people, who are in the 'sexaling for a living' program.
>
> Also, once the 'Managing My Universe' program software is released, and once people start using it, and once they set up their own network, that it will run on, and once enough people are running that software on their computers, we can have a partial soluition to the problem of the animal people, as well as a partial solution to dealing with Mormons, and Clerics, and Protestant leaders, who believe in "Jesus Saves" and other such useless nonsense.
>
> I think the Jesus Saves group, i.e., Christianity, the Mormons, Protestants, Lutherans, Catholics, Presbyterians, and so forth, is built on Islam, and on Judaism, or rather, on one of the schools of Judaism, plus maybe some other things, made up, or grafted from other religions that were primitive religions, such as Voodoo cults, and worship of the dead cults, as well as other cults, and they were all squished together, and the result was, "Christianity", but that was after all of my teachings were clipped out of the two above mentioned religions that I had taught.
>

> In any case, not a one of them has a clue that sexaling is a 'purifying' activity, and women and their sexaling bodies are like 'purifying' engines, or washing machines, as I've mentioned before, and men and their sexaling bodies, are also capable of becoming 'purifying' engines, and washing machines, though we all have our karma, and it will be a while before we erase enough of our karma, to make a difference, for some of us. That means, some people are better able to sexal than others as their karma for sexaling is better for sexaling than the karma for sexaling of others. We have a lot of karma to erase before we all begin to pick up enough steam to get any where, sexually speaking.
>
> I think that is the general situation, for most, but there are some people who are more gifted than others, and there are some people who are, when it comes to their sexaling capabilities, generally speaking, fine.
>
> With the use of aphrodesics, fruits that we can grow, that must be taken off the 'banned' foods lists, vegetables, nuts, and other foods that also are useful aphrodesics, that must also be taken off the banned foods lists, we will be able to make better progress. Sessame seeds can mold up wheat bread to make a nice aphrodesic, from what I've heard, and I will give it a try, one of these days, as I'm busy, molding up a few other things, first, sort of for experimentation, as this is all new to me. Peanuts supposedly, might be aphrodesic, once you mold up wheat bread with them. I believe they have minor pain killing properties, as well. Dark green garbanzo beans, sold in Indian food markets, also mold up wheat bread and are useful as aphrodesics. White bread is too poisoned to consider for use. Please use only whole wheat bread, or a bread of fine quality. Do not use white bread or normal white french bread, as the flour used in making them is treated with bleaching agents, that are poisonous.
>
> ### Compliance With The General Terms Of Their Settlement Agreements
>
> In any case, we need all the laws changed, as I've mentioned about, before, and we need the governments to form a united, single planetary government, and we need every one to begin to get the information they need, and the assistance they need to begin to cooperate with each other, in science, and in agriculture, and farming, etc. We need to ban pesticides, the use of petro-chemicals in the manufacturing industries, the promotion of natural fibers, and natural oils for manufacturing, and the switching over to non-polluting, hydrogen based technologies, and so forth.
>
> We also need the volumes of Greek literature released, as well as all the other literature, that needs to be released, that the initial settlers of this planet, were given, to use to set up their planetary government, with.
>
> When we start to see that these and all the other neccessary steps are being undertaken, in an effort to accomplish them, we will be in a better situation to begin to see a resolvement to this situation. The

> Lesbianists do not like to be forced into doing things, but in this case, there is no other way of getting these things done, and so if we need to force them to get them to move off their fannies, and get their butts in gear, than we will have to do just that.
>
> We need the Lesbianists, and all the other groups of people on this planet, who legally, or rather, legitimately settled this planet, but who are not in compliance with the terms of their settlement agreements, get into compliance, and the sooner they get into compliance, the sooner we will have a resolvement to this situation.
>
> Persons Who Wish To Participate In The Previous Sexaling For A Living Program
>
> I have talked about the previous sexaling for a living program, that people were signed up with, a long time ago, when they first settled this planet. I mentioned the underground bunker systems, that my kids still keep for eligible card carrying members. I suggested that there might be people who died, and after they came back from the Epcot Center, they no longer knew any thing about the 'sexaling for a living' program, that they were affiliated with, and they forgot that they were a valid card carrying member of the program.
>
> Even though these people, may not remember that they were once in the program, since they don't usually bring that information with them, when they are tummy babies, in mama's tummy, these people, if they wish to get back into the 'sexaling for a living' program, that they were once a participant in, they may write a statement, and state that they wish to get back into the 'sexaling for a living program'. They need to sign it, and press their energies into it, just as I explained, about, before. For example,
>
> Affidavit
>
> I, ____name____ would like to get back into the sexaling for a living program, that I was an active participant in, previously, and that I continue to belong to, as a valid card carrying member.
>
> Signed: (signature)
> Date: (Date)
>
> Then, press your finger, or thumb, or elbow, or toe, or nose, or lips, or palm into the paper you wrote, above your signature and date area, and make sure you press in your energies, as well as you can, and that should wake up my kids, and get their attention. When my kids have verified that your request is legitimate, they will buzz you in, or rather, teletransport you into the underground bunkers, that still exist, in many places, on this planet, and under the surface of this planet. These bunker systems exist on other planets, as well, and so every one who is qualified, no matter where they are, and no matter what planet they are on, can get back into the program, so long as my kids authorize and approve their request for entry into the program.
>

> This will get you started. You have to be certain, that you wish to start off, again, and that you are sincerely interested in getting back into this program, to sexal for a living, in accordance with the rules and guidelines of the original program.
>
> Once you are in the original program, now as a participating member, you can begin sexaling for a living, and you can also, begin to study about the new 'sexaling for a living' program, and the 'managing my universe' program, and the other programs that are now available, in the Gurkian Age. There are introductory courses for people who are not familiar with the program, and your questions will be answered in the seminar like introductory courses.
>
> Once you decide to join with one or more of them and once you decide to get into the Gurkian Age Religious Revolutionary Movement, and then begin sexaling for a living, as you get fit, and healthy, by your participation in these and other activities, as well, such as the club activities, as I've mentioned about, before, so that you can sexal more adequately, and robustly, for, eventually, days, then weeks, then months, then for years on end, without tiring out, too much, and in between sexaling activities, you will have lots of other activities, such as the club activities, to vary the pace of your life, to make it more interesting, and more engaging, by meeting with lots of people in the clubs, and by learning about these people, and by sexaling with them, once you've decided you would like to join, then you can switch over to the new programs, in the Gurkian Age Religious Revolutionary Movement, and get started when the facilities for them, are constructed by my engineer kids, and by others of my children, who will be helping them.
>
> When we have all of the facilities needed, the new programs will open, and you can switch over to the new programs and my kids will help you with the paper work to transfer over your membership to the new programs, in the Gurkian Age Religious Revolutionary Movement.
>
> Qualified Card Carrying Members
>
> Some of the people who I've mentioned before, such as Jodi Foster, Jennipher Lopez, Madonna, Angelina Jo-li, Jack Nicholson, Angelica Huston, many actors in the New York actors' guild, many members of the west coast actors guild, and many members of actors guilds around the world, and also, many members of dance troups, and dance guilds around the world, singers, musicians, entertainers, members of the military, members of law enforcement agencies, and so forth, many of these people, and others, as well, are qualified as valid card carrying members of the original sexaling for a living program, that the initial members and follow up members of the out bound programs for the settlers to this planet, were all a member of.
>
> Even if you do not think that you could possibly have been a member of one of those out bound settler's programs, you may have been one, and if you write an affidavit, in the form as I've mentioned above, you may find that in fact, you were a member of the out bound program of

> settlers to this planet, or, you may find that you were a member of
> one of the other out bound programs, to other planets, and you may
> find that you are still a qualified, card carrying member who is
> entitled to rejoin the sexaling for a living program, that you were
> once a member of.
>
> How is this possible? How can you still be a valid member, after all
> this time? Well, it is just that we need to get you started, and so
> these facilities, the underground bunker systems, that I've mentioned
> about, before, are there, and I was told by my kids, that you can make
> and sign a statement, or an affidavit, in the manner in which I
> mentioned, above, and that will be all you need to do, to get back
> into the program, you were once in. We are extending the time limit on
> the previous sexaling for a living program, as a short term measure,
> to help get things started up, again.
>
> Zealot
>
> Joining the original program, applies to all valid card carrying
> members, whether they currently know they are with an out bound
> settler's group, or not. That means, that Ms. Hillary Clinton, can get
> started up, again, as the time limit on the program has been extended,
> and so can Mr. Bill Clinton, and so can Chelsea Clinton, and so can
> all of the other people, who prefer to consider them selves as
> 'radicals', and they prefer the term, 'Zealot' as in, a person who has
> a lot of zeal for living, to the term, 'Lesbianist'. So when you see
> some one you might recognize as a possible 'Zealot' it is polite to
> use the term, 'Zealot', and not use the term, Lesbianist, as
> 'Lesbianist' has too many negative feelings attached to it, and people
> might start using it as a way to make others, angry.
>
> You do not get points, for starting fights, or for getting other
> people angry at you, for teasing them, and so forth. So, let's all
> behave, and let's all get into the program, those of you who are
> eligible, and let's go from there. If you have a friend, who might not
> be eligible for the program, you can make an application to allow the
> person into the program, and then my kids will approve it. The person
> will then get accepted into the sexaling for a living program for the
> out bound settlers.
>
> Captain Off The Bridge.
>
> John Francis Ayres
>   GOd
>   And Children
>
> What Is Tin? - How Many Elements Animals Are There? - New Sciences -
> Professional Moldists - My Working Children And Where Are They? -
> Different Jobs For My Different Groups Of Children - Advantages To
> Living In This 'Central Bus Station Terminal Building' Universe -
> Getting Into Compliance Of The Outbound Settlement Program - The
> Planetary Government And The Laws For The Citizens Of This Planet -
> Sexaling Professionals - Wedding Arrangements - Informing The People

> Of This Planet About The Terms Of Compliance - Building The
> Infrastructure, And The Needed Facilities, Etc. - Molding Up Bread And
> Metals Animals, Etc. - What Will Be Your Main Jobs From Now On? -
> Getting Busy, Cleaning Up, In The Gurkian Age - Taking The First Steps
> Towards Resolving Cooperation Issues - Air Raid Shelters And Play Time
> 'Fetish' Sexaling Underground Dungeons - Becoming Trusting And Loving
> Friends With Each Other - Unflattering Love - The Importance Of
> People's Rights To Freedom And Their Rights To Freely Choose The
> Course And Direction Of Their Lives Updated: 28-06-07 Rev.c 16:51 PDT
>
> What Is Tin
>
> Tin ore is a metal ore, and it is found in cassiterite, as listed in
> many books, and it is also found in iron pegmatites.
>
> Iron pegmatites are its chief source for supply of this mineral ore.
> It is like gold, or barium, or silver, and it is found in many
> pegmatites.
>
> What is barium? It is a mineral that is found in steel ore, or iron
> ore, and it is a tough metal, and it is very strong, with great
> tensile strength.
>
> What are pegmatities?
>
> Pegamatites are large stones that contain mineral ores.
>
> A pegamatite ore stone can be found in silver deposits, and in gold
> deposits, and in many types of mineral deposits.
>
> Pegmatites are generally found with quartz, or a type of quartz, that
> is a pearly white in color.
>
> It is a cluster of ores, of various types, and the ores can be any
> thing from silver, to gold, to iron, to boron, or cadmium.
>
> What is boron?
>
> Boron is a chief component of the metal industry, and it is used for
> making steel. It is found in iron deposits, and it is also found in
> gold deposits. Boron is a chief component mineral ore found in iron
> ore deposits.
>
> What is cadmium?
>
> Cadmium is also a chief component of the metal industry, and it is
> found in large quantities, when found with silver ore, and with iron
> ore, and with gold ore, typically. It is a shiny grey ore, and it is
> very useful for making steel stronger.
>
> The processes of melting tin ore out of cassisterite, is a difficult
> process, but the Lesbianists use it to help confuse people about what
> tin is. Tin is chiefly found in metal deposits, or metal bareing

> loads, where there is much iron ore, and steel ore.
>
> Steel ore is similar to iron ore, but steel ore is stronger than iron.
>
> Iron is a little brittle, and with out the use of steel ore, and with
> out the use of other ores, to stiffen it up, iron ore is a poor choice
> for durable, pots, and durable cast iron statues as it will fragment,
> very easily, and it turns to dust, if scraped with a strong hardened
> steel knife blade.
>
> The home hobbyist, or workshop metal smith, as seen on PBS, the small
> sized smelting industry, as seen in a recent Las Vegas PBS program
> that touched on metal smithing, makes a big deal out of white metal,
> and that is iron, basically, the real brittle metal that comes in
> through the metal smith's doors from people who own statues made of
> iron. That brittle metal, if scraped with a knife, will start to
> shatter, and fall apart, and the metal smith was saying, he could not
> weld any thing to it, as it would just keep coming apart, layer after
> layer. That is iron ore, and it is different from steel ore.
>
> I suppose the Lesbianists' made up the periodic table of elements to
> help confuse scientists, and it does not jive with reality, and the
> metals animals minerals animals, elements animals, and other animals,
> that we have in our environments. The Lesbianists periodic table of
> 'elements' does not help to describe the many types of 'elements'
> animals and other animals that we find in our environments, under the
> ocean, in the forests and jungles, under the ground, or in the
> deserts, and so on.
>
> How Many Elements Animals Are There?
>
> There are so many elements animals, you will take many years to study
> about them all, if you decide to study in depth about them. Maybe it
> will take several hundreds of years, to learn about some of the things
> about them. If you wish to study about all the mineral animals, metal
> animals, elements animals, and other living animals that are in my
> many universes, it will take you a far greater amount of time to study
> about them all.
>
> We will have courses for you to study about them, once we set up our
> new civilization, and once we get around to setting up the many other
> new civilizations, that will all be patterned after our civilization,
> that we will be setting up, shortly, with the cooperation of the
> Lesbianists, the Zealots, and their many other outbound planetary
> settlement groups radical friends.
>
> New Sciences
>
> Elements animals are many types. There are thousands, and millions of
> elements animals, if not more, maybe many times more, into the
> kazillions, plus many times more, I think.
>
> Just like animals on the ground, or in the ocean, or in the fresh

> water lakes, or in the sky such as birds, or in the lagoons, or in the
> swamps, and so forth, there are untold, countable numbers of different
> animals.
>
> However, the elements animals are very far greater in number, than the
> animals we can see with our eyes.
>
> Animals of all sizes, and some of them are very tiny, exist in huge
> numbers, all throughout my universe.
>
> Tree animals, and plants animals, we learned about recently, the
> drafts babies, and the wedger mama's, they are in each and every
> plant, and they are different from every other type of plant animal.
>
> There are quite a large number or plants, and flowers, and bushes, and
> sea weeds, though we don't see sea weeds too often, or kelp plants,
> but there are lots of underwater plants, but perhaps not as many as
> above ground plants, as we have destroyed our environments, and in the
> ocean, the oceans are so polluted, not much grows in them, any more.
>
> Elements animals are very large in number. So are molds animals. Molds
> animals are very large in number, but who is there more of? I don't
> know, but maybe with all the different types of molds there are, there
> may be more molds animals, than there are elements animals, but it is
> a close call, I think.
>
> But maybe not, as there are so many types of animals in molds, maybe
> the animals found in molds, are far greater than the number of animals
> found in elements.
>
> Anyway, I suppose molds animals, if we look closely at all the
> different types of molds there are, with a microscope, will far out
> number the number of elements animals.
>
> Never the less, there are a far greater number of elements animals,
> than the Lesbianists are going to let anyone know about.
>
> Why is that? It's because they do not want to educate people about the
> real world we live in. They want to keep us dumb, and stupid, so they
> can laugh at us, or at least, as dumb and stupid to them, anyway, so
> that they can laugh at us.
>
> Well, it is a pretty unpleasant situation, here, because we have to
> learn what science is, and we have to learn the real sciences, and not
> the phoney sciences the Lesbianists teach.
>
> My memories are not good enough to even begin to teach any thing, but
> any way, we need some Lesbianists, such as George Bussey, or Clint
> Eastwood, or Morgan Freeman, and Liz Taylor, and Mila Jovovich, and
> Mrs. Barbara Bush, Jr., and Mrs. Barbara Bush, Sr., and Mr. George
> Bush, Sr., and Mr. Ronald Reagan, and Mr. George Bush, Jr., and their
> radical friends, to teach us the real sciences, along with the rest of
> the Lesbianists, or Zealots, all of them.

>
> Not a lot of them will want to comply, with that, but we can get some of them to comply, if you make friends with them, and then invite them to your houses, and sexal with them, and make them your best friends, and your sexaling partners. The longer you remain friends, and the longer you sexal with each other, the more compliant they will become over time.
>
> That's the best way to get the Lesbianists, or Zealots to become your friends and then have them teach you stuff, about molds, and science, that you didn't know about, before. As you learn about science, you will learn about making molds, using different methods, and then you can learn how to feed your body, and then you can learn how to feed all the organ animals in your body, a proper diet, and then you can live forever.
>
> If your organ animals all get the foods they need, you will have many happy animals inside of your body.
>
> Professional Moldists
>
> Lesbianists are all professional moldists, and they all have the capability to teach people how to mold up any thing that is worth molding up. They study for millions, and billions of years, and even longer, in some cases. They get their professional degrees, and then they qualify for the outbound settlers' program, and then they go off to settle a new planet, that has not very long ago, recongealed, after it was last smashed apart by a passing sun, or large planet, traveling at a very high rate of speed as it smashed into it, or as it smashed into something, such as another planet, or even a sun, nearby.
>
> That can be very catastrophic, and not many people will survive, and many planets in the vicinity, will shatter to pieces, when a sun or large planet is hit by direct impact, by a large size planet, or fragment of a large planet, or a sun, or fragment of a sun, traveling at a high velocity, near or even past the speed of light.
>
> The shock waves that go shattering out, in wave after wave, will destroy every planet and sun, for a long ways around.
>
> This happens, some times, and the planets and suns and moons, are reduced to dust particles, and after some time, they begin to recongeal, as they go spinning around due to magnetic waves that affect them. After spinning in various formations of circular movements, they eventually recongeal into numerous planets, and many different sized suns. Lots of moons also form, and you have the birth of a lot of new planets, that need settleing.
>
> We always send out people to settle the new planetary systems that need settling, who are most qualified, to establish and lead a new civilization, that they must construct, as a part of their agreements, for their being selected to settle the new planets.
>

> This is how it is typically done, and so we get the best and the
> brightest, and after their certification, they go out to settle a
> newly formed area of planets that are habitatable.
>
> We send out many groups, one after another, of highly qualified
> people. Hulk Hogan was one of those people, who came in a different
> group of people, but he is friends with the Lesbianists, and he
> supports, more or less, what the Lesbianists are doing. There are a
> lot of Hulk Hoagan's friends, who also came and settled this planet,
> in one or more of the out bound planetary settlement groups.
>
> We need Mrs. Barbara Bush, Mr. Hulk Hoagan, and all of their friends,
> including Hillary Clinton, and Mr. Obama, to get into compliance with
> the terms of their agreements, that they initially signed onto, and
> penned their names to, so that we can get further aide from my
> children.
>
> My Working Children And Where Are They?
>
> My working children take care of the support work, once the settlers
> in the out bound settlement groups are in agreement with the terms of
> compliance, of their out bound planetary settlement program.
>
> How this is done, takes some explaining, but it is fine to leave it as
> it is, for now, as it will take a lot of explaining to do, to let you
> know exactly how every thing in my universe is set up, and where all
> my kids are living.
>
> There are multiple dimensions to this universe, and I weaved together
> this universe, in such a way as to support the activities of my kids,
> and at the same time, support the activities of other groups of my
> kids, living in different dimensions, and at the same time, support
> the activities of us, living here, in this large universe of ours.
> This is the central area for us to live, and we have a different job,
> as it turns out, and that is to purify our universe that we live in,
> for eternity, so that we can all live in all the universes I have
> made. There are many universes, too small for you too see, as you are
> just too big to possibly see them.
>
> I also made many dimensions, and weaved every thing together, in such
> a way as to support the religion that I am now going to teach to you,
> over time, and that you are all going to learn about. You can decide
> for your self if you wish to practice my religion or not, but your
> practicing my religion, is essential for us to have a nice place to
> live in, for eternity. That also includes all of my kids.
>
> Different Jobs For My Different Groups Of Children
>
> We have a lot of different jobs to do, my kids, and you, and to keep
> every thing running smoothly, we must practice my religion, that I am
> now begining to wake up to and learn about, as I come out of my
> condition of amnesia, and that I am now begining to practice, in my
> apartment.

>
> This is how I planned, it, with me waking up, and coming out of my amnesia, and then, over time, introducing my self to all of you, as you all begin to practice my religion.
>
> We will be here for eternity, and it is our job to purify our universe, and to erase the karma, that is a continuous problem, for all of us. There is much we must understand about how my universe is built, maintained, and run or managed. All of my kids make karma, and to keep this universe running properly, we have to divide the karma up, into manageable sizes for each one of us to bare. We are in the best location, here in this universe that we live in, and it is our responsiblity, because we it is our job, to keep our universe pure by practicing my religion.
>
> Advantages To Living In This 'Central Bus Station Terminal Building' Universe
>
> There are lots of advantages to living in this universe, the 'Central Bus Station Terminal Building' universe, that my kids do not share with us, as they live and work in their many, tiny 'Bus Station Terminal Building Support' universes, to support what we are doing, in this 'main' universe. There are lots of things that you can do in this 'main' universe, efficiently, and effectively, that you can not do as well at, in the tiny universes that my kids live in.
>
> The list is long, but one thing is, taking karma, and figuring out how to deal with it, and then dealing with it, efficiently. Another thing is, balancing out karma. We need to balance out karma, to keep every one and every animal alive, thriving, and well, and we can effectively balance out karma, in this 'main' universe, better than in the tiny universes that my kids are living and working in.
>
> With my religion, that we will begin, soon, to accept and practice, some of us in our universe, and in time, more of us, and with my kids practicing my religion, along with us, but in their support network of tiny universes, and more needs to be explained about the support network of tiny universes and what my kids are doing, as they work in them for keeping things running smoothly and harmoniously, we will effectively have a way to balance out karma, much better than ever before.
>
> Practicing my religion is also good for erasing our karma, and we can more effectively erase our karma, and keep things running smoothly, for our 'main' universe, as well as for all of the many support universes, that my kids are living in and working in, and that we need integrated with our 'main' universe, to allow us all to live in this very big universe of ours, which includes and is central to all of the other many 'tiny' universes and central to all of the other living areas, that goes on, beyond the walls of this universe, in all directions for almost nearly infinity for all practical purposes, that I have for all of my working kids to live in and work in, supporting what we are doing in this universe and supporting, in an inter

> networked and inter connected manner, what they are all doing, in their universes, and living areas, as well.
>
> My human being kids all have jobs, and so do all my worker animals, and I have lots of working kids, and I have lots of worker animals of all different kinds.
>
> You and I, who are in this main 'Central Bus Station Terminal Building' universes, are the only ones who do not have jobs assigned to us. Therefore, we are all going to work, forever, from now on, at practicing my religion, and this will be our primary job, for keeping our universe running, and for keeping all of my kids universes and living areas, running in proper order, as we erase the massive amounts of karma that need to be erased and as we balance out the massive amounts of karma that need to be balanced out.
>
> This is a difficult and lengthy topic to discuss, and so I'll have to leave it for another day. Sorry.
>
> In any case, we all must have a job, all of my kids and I, and now, of course, you are all going to join my kids, whether you like the idea of it, or not, and begin working for me.
>
> Getting Into Compliance Of The Outbound Settlement Program
>
> Mrs. Hillary Clinton, Mrs. Barbara Bush, Jr., Mrs. Barbara Bush, Sr., and all their friends are now going to have to get into compliance with the terms of their aggreements for the outbound settlement program. Once they do that, we can begin to get things started, for the rest of eternity, with you practicing my newest religion.
>
> This religion will take the best from each of my earlier religions, that I taught, and combine all of the best of them, into this one. There are also some other special features to this religion, and we'll learn them over time.
>
> In any case, we are going to place women in their rightful place, above men, and we are going to place men in their rightful place, below women. That's one of the main things that we are going to achieve with this new religion. It was never a big issue, before, in I think maybe most of my religions, if not almost all of them, where women stood in relation to men.
>
> Anyway, we are going to get an understanding of the fact that there are two races of people, and one of them is the female race, and one of them is the male race.
>
> That's one of the primary things, that we are going to get straightened out, now, with my religion, with out ever getting it confused, again, for the rest of eternity.
>
> In any case, we need all of the friends of Hillary Clinton, Bill Clinton, Chelsea Clinton, George Bush, Jr., Barbara Bush, Jr., George

> Bussey, Mila Jovovich, Bruce Willis, and of Hulk Hogan, and of all of the other people who came in the original outbound planetary settlement groups, who are still here, and still alive, and who still remember that they all have planetary settlement agreements to get into compliance with.
>
> Unless they do that, there is not much we can do, except wait around until they finally do decide to get into compliance. They must then take the neccessary steps to inform every one, about the facts of this situation.
>
> ## The Planetary Government And The Laws For The Citizens Of This Planet
>
> Until they do that, we can not get much work done, as all the laws, and the way the societies on this planet are set up, will not work for us. Nudity and nakedness must be permitted, and so must public sexaling. All forbiddance laws must be dropped, and all laws on behavior, and the types of plants people can eat, and so forth, must be all dropped.
>
> The sets of laws that are the basis of the outbound planetary settlement programs must be then instituted. The governments that the Lesbianists have set up, must be dropped, and one planetary government must be formed with those laws as the foundation for all of the citizens of the planet.
>
> Those are the first steps that we must take. After that, we will get and have the needed arrangements, to set up my religion, globally, so as to make it accessable to every one.
>
> We are also waiting on the release of the software and operating system, that I released to the FBI, through their twenty four hour a day, audio and video surveilance of me, which I've talked about, before. When that software and the operating system are released, we can begin the 'managing my universe' program, and the 'sexaling for a living' programs, that will then be instituted, after the Lesbianists and their friends, get into compliance with the terms of their agreements.
>
> Once they get into compliance, and once we get the software from the tapes of the video surveilance, we will be able to institute the 'managing my universe' program, and the 'sexaling for a living' programs.
>
> Until then, there is not any hope for any meaningful change. So, until then, please make friends with the Zealots, or Lesbianists, and their friends, and become good sexaling partners with them, and get them to teach you more about the real sciences, and about molding sciences, etc., and make good relations with each other. It may take some time to get their attention, and to get them to begin to accept your offers and invitations to your homes, or to their homes, on occaision, for sexaling sessions. After sexaling for several weeks, non stop, they will all become more pliable, and more compliant, and they will begin

> to loosen up, and then open up and talk about things, as you all begin to learn to trust each other, and to treat each other with care, consideration, and respect. You can then begin to build on your understanding of each other, and your relationships with each other, will begin to blossom.
>
> ## Sexaling Professionals
>
> The Zealots, and their friends are professional sexalers, so they can teach you many things and secrets about sexaling, that you may not know about. You will make good bed partners, and after some time, you can learn lots of things. There are cures for herpes, of course, and for genital warts, and for all venereal diseases, and so forth. These Zealots, the Lesbianists, know all about them, as they had to study all of that stuff, to get qualified and certified for the outbound planetary settlement programs. You will also be able to learn proper diet techniques so as to be able to feed your body, and all the organ animals, and other animals, that are living in your body, and that you need to feed. You can also learn proper skin care, health care, and body hygene.
>
> ## Wedding Arrangements
>
> Currently, the way things are set up, with one person, a male, and the other person, a female, getting licensed to marry each other, will not work, under the new system. Thus it is neccessary to get into compliance with the terms of the outbound planetary settlement programs, so that the new laws will allow for multi person marriages. Multi person marriages, I discussed, before. Women and girls need multiple men and boys to sexal with, properly, as women and girls are very capable sexalers, once they learn how to sexal properly. Multiple person marriages will allow for mulitiple women and girls, and multiple men and boys, to marry each other. The current laws must be dropped, and the current governments must be disbanded. After that, the new government and the new laws will allow for multiple person marriages. Once multiple person marriages are allowed, after the new government is set up, then the sexaling for a living programs, will be instituted, as a part of the compliance terms.
>
> ## Informing The People Of This Planet About The Terms Of Compliance
>
> The Lesbianists need to inform every one about what the terms of compliance are, and they had better get to that, soon. They must then, with their many friends, who came after them, or along with some of them, as they arrrived on this planet, by space carrier, or space ship, begin to get their Lesbianists friends in all the governments of the world, and their other friends in the governments of the world, to comply and participate in setting up the one world planetary government.
>
> The software and operating system software, have in them, access capabilities to access data bases, to down load all of the information, that is needed for every one to learn about and to begin

> participating in all the new programs.
>
> Building The Infrastructure, And The Needed Facilities, Etc.
>
> Once you begin accessing the databases, and once you begin to study,
> and learn about the new programs, my kids, who work in other
> universes, and in other dimensions, will then begin to build and set
> up the infrastructure, housing, food production facilities, medicine
> production facilities, recreational facilities, academic facilities,
> hospital facilities, prison facilities, and so forth, that will be
> needed to further advance the programs every one will be required to
> begin and will need to begin to participate in.
>
> Once we get to that point, we will begin to be able to have a stable
> society, with all of the new technologies that will be provided for
> security, and personal safety.
>
> Molding Up Bread And Metals Animals, Etc.
>
> I said, before, that you need only a square inch or so of metal in
> each one gallon of bread you are molding up. That may be a minimum,
> but it is better to use more. If you are using a plastic container,
> you can line the bottom of it, with aluminum foil, and you can line
> the in side walls of the container, up to one half to two thirds up
> towards the top, for better results.
>
> Some molds animals like silicas. Some like quartz. Some molds animals
> like tourquoise. And lots of them, like various mixtures of minerals
> and metals, and elements animals, as well as other animals, we do not
> know much if any thing about, who are hiding inside of rocks, and
> stones. Anyway, we'll find out, in time, all about what molds animals
> we are trying to make, and what they like to eat, and then we will
> find the right types of rocks, ore rocks, mineral rocks, and other
> types of rocks and stones, and we will provide them to the molds
> animals, and funguses animals, so that they can get fed well. The more
> well fed we feed them, with all of the many types of worker animals of
> mine, the healthier they the molds animals and funguses worker animals
> of mine will become. The more healthier they become, as we raise them,
> in the containers we find to farm them in, when we are finished
> farming them, and then when we eat them, the more healthier the organ
> animals in us, will become.
>
> The more healthier the organ animals in us become, the better able
> they will be to make babies, and the more successful we will be at
> prolonging our longevity. Our bodies are meant to last for eternity,
> if we feed them with the right worker animals of mine, and all the
> proper foods and nutrients they need to stay healthy. We have much to
> learn about all of this, and the sooner you begin making friends and
> making sexaling partners with the Lesbianists, and their radical
> friends, the sooner you will be able to begin to understand how to
> feed your bodies, properly, so that you can begin to live forever, and
> so that you can begin thinking about working for me, in this main,
> Central Bus Station Terminal Building that we are living in.

>
> What Will Be Your Main Jobs From Now On?
>
> It might take you awhile to decide to begin working for me, but the sooner you decide, the better off we will all be, as we need all of the wonderful sexaling energies you and your sexaling partners will be helping to create, to fill up this universe of ours, and to fill up all the many universes of my kids, and all the living areas of my kids who live outside this 'Central' universe we are in, which is a very big place, as I've mentioned about, before. It is very hard to fill up this 'Central' universe we are living in, with all of the wonderful sexaling energies, that will allow us to begin to breath, easier, once again, and that we are starving for, and that we are currently depleted of.
>
> We will, though, over time, fill up this whole universe, and all of the many other universes, and areas my working kids live in, with all the needed sexaling energies animals, and other types of energies animals, we do not understand too much about, and that we also have to study about, one day.
>
> My working kids are all doing their best, sexaling for a living, so that they can erase their karma, and balance out their karma, in addition to working at their main support jobs.
>
> Those of us, you and I, in this main, 'Central Bus Station Terminal Building' do not have any support jobs, so we will have lots of time, for the 'managing my universe' programs, and for the 'sexaling for a living' programs so that we can also erase our karma, and balance out our karma, as well as erase all of the karma of my worker animals, and also, help balance out all the karma of all of the worker animals of mine.
>
> That is your main 'job', from now on, sexaling for a living, as well as working in the 'managing my universes' programs.
>
> We will have lots of time to study about every thing we need to and want to study about, so we can better understand the many things we need to learn more about, so that we can appreciate what my working kids are doing, to keep all of the many tiny universes, and all of the living areas, as well as our universe, in proper working order so that you can all live and work forever, as one big family of children.
>
> There is much more to learn about, with regards to my family of children, and about all the new human being kids we will be greeting, and welcoming into our large family, as the ladies and girls begin to bring them into our 'Central' universe, as tummy mommies, along with the tummy daddies, and we will learn more about the many new working kids of mine, that my working tummy mommies kids and working tummy daddies kids, will be bringing into, and welcomeing and greeting as they come into each of their universes and living areas, another day. We will also be seeing many new worker animals of mine, over time, as many, many new ones, of all types, will also be joining the working

> force of my worker animals.
>
> ### Getting Busy, Cleaning Up, In The Gurkian Age
>
> It will take us a long time to get every thing into good order, and to clean up our universe, and erase our karma, and balance out our karma, along with my worker human being children, who are all busy, cleaning up the many support universes that they live in, and cleansing their karmic records, etc., and who are all busy, cleaning up the many support living areas, that they live in, and cleansing their karmic records, etc., as they begin to practice, more and more, my new religion for the Gurkian Age that we are now in and at the begining of.
>
> This may sound hard to believe, or 'fictious', but it is not 'fictious', and over time, you will learn all about every thing in detail, and you will begin to get your selves grounded in reality, more and more, as you begin to work in the 'managing my universe' programs, and as you begin to work in the 'sexaling for a living' programs.
>
> ### Taking The First Steps Towards Resolving Cooperation Issues
>
> Making friends and becomeing sexaling partners with the Lesbianists, the Zealots, and with their radical friends, is your first step in the correct direction towards resolving the difficulties we are encountering, now, to some extent, because of the Lesbianists, and their radical friends reluctance to cooperate. The more friends you make and the more sexaling partners you make, the more the Lesbianists and their radical friends will begin to 'cooperate' with you, in all the ways that are important to resolve the cooperation issues, and non cooperation issues, that are currently in need of resolving.
>
> ### Air Raid Shelters And Play Time 'Fetish' Sexaling Underground Dungeons
>
> People with underground air raid shelters, may wish to add on to them, and expand their size to accomodate all the new friends from among the Lesbianists, or Zealots, and their radical friends, who people with underground air raid shelters, or other convenient places, underground, such as play land dungeons, which some people who like fetish sexaling, may have, will be inviting in to their underground air raid shelters, for a long duration stay to have the Lesbianists, or Zealots, and their radical friends, teach them about sexaling, and teach them about molding, and the sciences that these people know nearly every thing about. Almost one hundred percent of the course work had to be completed, and in many cases, it was one hundred percent of the course work that needed to be completed, to make them an eligible candidate for an out bound planetary settlement program.
>
> ### Becoming Trusting And Loving Friends With Each Other
>
> As you invite these people into your homes, you will need proper accomodations, such as extra rooms, and extra beds, and so forth, so

> people with underground air raid shelters, and with underground fetish sexaling rooms, or dungeons, will need to expand the size of these underground rooms, so as to accomodate all of the guests they will be inviting in, to meet and sexal with the family, the relatives, the neighbors, and other trustable persons.
>
> You can learn many secrets about sexaling, and you can learn a lot more, than you would imagine, as all of these people were certified as instructors for teaching sexaling techniques, judo and ai kido techniques, as well as impromptu ninja type, assasin techniques, for use in a pinch, to protect their lives. They were also certified to teach molding sciences, and all the earth sciences, and planetary science, all the math sciences, and so forth. They were also trained in government sciences, nutritional sciences, medical sciences, and so forth, so they could be all around, professional, well trained persons. All this training was for the bright of the brightest, and they spent many hundreds of thousands, and millions of years, and billions of years, and some times, more, training and getting certified in all the career sciences, as well as in fitness and health sciences, that they needed to learn to set up a new civilization, with a fully developed government, in accordance with the instructions and requirements for that government, which was to be based on the same pattern of government, where they trained to become certified officials on the planet they were to settle, and in the galaxy they were going into.
>
> They were trained to be excellent leaders, and capable people, in every sense of the word, to get and hold the attention of all late comers, and to prevent the late comers from attempting to dislodge them, from government, over some petty, dissatisfaction, about their performance. Their performance issues were of major concern, so they were highly over qualified, so as to make it clear to all late commers, people who would be arriveing later, either as new additions to the population, on the out bound planetary expeditionary settlement program, or as tummy babies, to tummy mommies, and to tummy daddies, who they all new they were going to become.
>
> They are so well trained, they can teach you practically any thing, not only with regards to medicine, government, the sexaling sciences, and so forth, but even about the martial arts sciences, and ninja sciences, and the techniques they learned, which they practiced, many of them, diligently. They can do some very fancy martial arts and ninja assasin tricks, if you ask them to, and they can be very entertaining as some of them are very adept, or skilled at performing these tricks, and secret martial arts attack and destroy skills. As a rule, in the Lesbianists organization, any way, they are only allowed to use those skills, in a life or death situation, so you should treat them, well, and be courteous, considerate, and kind to them, and make sure their stay is comfortable, and that they are well fed, and offered only the best foods, and the best wines, etc. They will help you to learn how to make good tasting wines, which are not only good tasting, but also, good for you, which will help feed all the animals in your bodies, including the organ animals, so that you can

> regenerate and rejuvenate your bodies.
>
> Of course, when they were in training, for the out bound planetary expeditionary settlement program, when they trained in the martial arts, and when they trained in the ninja sciences, they were certified, and got their diplomas, as well. In the guidelines, they are not allowed to use their ninja attack and destroy skills, or their death threat level, response and offense to attack and destroy an enemy, who might like to dislodge them, forcefully from government, and perhaps kill them, if they could, to get them out of the way, permanently, unless their lives are in danger.
>
> So long as you do not threaten them, and make hostile remarks to them, and so long as you remain courteous, careing, considerate, and kind to them, and so long as the men and boys act in gentlemenly manners, and so long as the women and girls act with lady like, polite manners, to whom ever your guests are, you will certainly be able to get along with each other, without any problems, at all.
>
> They were trained in the sexaling sciences, and in the molding sciences, and in all the academic sciences, so that they could also offer educational programs to all of the new comers, whether tummy babies, and off spring, the children of the members of the out bound planetary expedtionary settlement program, or whether new members, incoming from else where, who would like the additional academic training.
>
> Try to get along as best as you can, and remember to be polite, and talk politely, and be courteous, and make every effort to allow them to enjoy the luxury of relaxing days and nights, fully sexaled, and fully fed, and allow them to make lots of aphrodesics molds, and other molds, as well as useful and tasty beverages, such as those they can make with fruits, and juices, and molds of various kinds, which will increase the amounts of nutrients in your body to help feed all the hungry animals, and organ animals, and cell animals, and amoebes animals, etc., who are all in your body, and who are all in need of nourishment.
>
> Remember too, to always test feed the drinks to farm animals, such as pigs, hogs, goats, lambs, sheep, dogs, cats, and so forth, including other animals, such as guinea pigs, mice, rats, ferrets, and wart hogs, first, if your guests will not drink the beverages they make, for some reason.
>
> We want every one to remain healthy, and happy, and there should be no toxic poisonings of the food and drink permitted, due to tricky knowledge of poisons the Lesbianists, or Zealots, and their radical friends, can make, with their knowledge of the molding sciences.
>
> Make sure every one remains on the best of terms, and make friends with them, after sexaling with them, for several weeks, or longer, and when they begin to truly enjoy their stay with you and your family members, and with you and your family's relatives, and with you and

> your family, and so forth, and your neighbors who will be dropping in,
> every day, hopefully, to enjoy extended sexaling sessions, for days,
> and weeks, and even months, and even years, in lots of cases, as they
> haven't had the chance to sexal very much, ever since they all came up
> from underground, where they were living, and sexaling with all their
> friends, all the time, for their 'tour of duty'.
>
> The Lesbianists, i.e., the Zealots, and their radical friends, must
> perform a 'tour of duty', every so often, to stay in good standing
> within the organizations they belong to. They plan these tour of duty
> trips to the surface of the planet, to engage the locals, the ordinary
> folks, the dim witted folks or rodent population, as they call them,
> well in advance of each tour of duty. We ordinary people, are the dim
> witted folks, in their view, and they enjoy making fun of us, and
> making fools out of us, as much as they can, for their amusement. We
> shouldn't mind this, as every one needs to have fun, once in a while.
> So be gracious hosts, and invite many of these people, freely into
> your homes, and treat them almost as you would treat the members of
> your family. Remember to sexal with each other, daily, as much as
> possible, when time permits. Have lots of friends, and associates, all
> trustable people, come to your homes, to meet your guests, your 'new'
> family members, and have your trustable friends engage them in
> pleasant conversations, and in lovesome sexaling. Lovesome sexaling,
> is passionate sexaling.
>
> You can find their likes and dislikes, as to who or which type of
> person, male or female, and so forth, each new guest likes to sexal
> with, as a preference. Make sure that every one is compatible, with
> each other, in terms of their sexaling preferences. As time goes by,
> you will all begin to love one and another, and then the issues of non
> cooperation, will fade into the past, and into ancient history, and we
> will eventually get full cooperation, on all the points neccessary,
> for then setting up a one world, planetary government, with their kind
> assistance. They will be happy to teach to you the terms of
> compliance, once you become cherishable, loving, and tendersome
> friends with each other, as you sexal with each other, daily.
> Tendersome means, loving and caring towards some one.
>
> In time, when you have begun to break down the walls of hostility,
> some of them may feel, for being guests, against their wills, some of
> them, anyway, will never the less have some tiny amounts of hostility,
> for your bringing into your homes these wonderful people, despite
> their busy, daily schedules, and rigorous duties, or routines at work
> and on the job, in government, or in the field of academics, and in
> television, as news casters, weather reporters, anchor persons, camera
> men and women, and stage and screen acting jobs, and stage hand jobs,
> from police departments, fire departments, ambulance attendants,
> doctors, lawyers, ad agency workers, and so forth, or in what ever the
> work they are doing, during their tour of duty.
>
> As you, the hosts, gradually break down the walls of antagonism,
> unpleasant feelings, and hostilities some may feel towards you, or
> resistant feelings that some may have, when you invite these people,

> your new 'family' members, or guests, into your homes, as you sexal with each other, the longer you sexal with each other, sooner or later, you will begin to be able to love and trust each other.
>
> When you are able to love and trust each other, and when there are no residual hard feelings, or unpleasant memories left, when you all love to snuggle and sexal with each other, having lots of fun and laugher with each other, then you will want to begin to get the shopping lists of delicious foods for them to eat, and you will want to get the shopping lists for the items, that they will need, to make the delicious molded foods, and the delicious snacks, given their incredible know how on making delicious foods, and delicious snacks, and delicious beverages, based on all their academic learning, training, and teaching, that they acquired over the many long years of study, public service and volunteer work they performed, to qualify for the out bound expeditionary settlement programs.
>
> In time, you will all be able to regenerate your bodies, look younger, feel great, feel more fit, and your stamina for sexaling will have improved, if you follow their advice and tips on how to improve your sexaling methods, and your sexaling techniques. As you listen to them, and learn from them, you can level up your sexaling sciences knowledge, along with your sexaling skills. In time, you will also be able to learn all about the molding sciences, and you can even have them teach you some of their 'sneaky' tricks, that they know, that could kill you, if they were allowed to mold up, any thing they wished to mold up, without supervision.
>
> Remember, a loving relationship is not the only thing needed to build a trusting relationship. Understanding, respect, and careing for each other, all go a long way towards helping you to deepen your trust with one and each other, so that you can deepen your tenderness towards each other, and strengthen your bonds of love, for each other.
>
> Supervise carefully, every thing they do, and remember, if they will not eat or drink what they make for you, you should test feed it to the pets you have, as I've explained about, before, for several weeks, as there are fast ways to poison people, and there are slow ways to poison people.
>
> This is a very difficult area to manage, but once your guests, your new 'family' members, begin to show true love and affection, and unflattering love for you, and for your family members, and for your friends, etc., with respect for you, your family members, and for your friends, along with care, consideration, and understanding, these problems will become less of a threat to having a happy and mutually cooperative, and prosperous relationship with each other.
>
> Unflattering Love
>
> Unflattering love, is a type of love, where you accept each other, for who you are, with all your faults, and frailties, no matter what they are. It's like a brother and sister relationship with each other, with

> love and respect for each other, no matter what.
>
> In time, you will develop your love relationship into one of
> unflattering love and affection. When you have succeeded at that, then
> the hazards, one may encounter, as hosts to your guests, may become a
> tiny bit, less serious.
>
> It takes many years of cooperative association, many thousands of
> years, and then, even more, before you will develop any thing that is
> worth while between you and your guests in so far as being able to
> trust each other. So prepare well for the long term long haul journey
> ahead of you, as it will take you millions of years, before your
> guests, even begin to calm down, a little. People are very good at
> hiding disatisfaction, and disgruntlement. They can linger, and they
> will linger, until they find a way to express them selves. You need to
> be cautious, at every moment, and suspect every thing that is in any
> way, suspicious or ambiguous behavior. Even after billions of years of
> mutual sexaling with each other, there may still linger hard feelings,
> in some people, if not in many people, for having been forced to
> experience, a sudden change in life and in a sudden change, forced
> upon them, in life style.
>
> The Importance Of People's Rights To Freedom And Their Rights To
> Freely Choose The Course And Direction Of Their Lives
>
> Being forced to cooperate is not a pretty issue and hard sentiments
> will linger for a very long time, if not handled properly. Counseling
> can help, but basic freedom is what is expected, and so until or
> unless you give your guests, complete freedom, to act and think, and
> do as they like, there will be problems and head aches for every one,
> with minor issues, possibly causing, major catastrophes, such as an
> early death and a visit to my Epcot Center, from an over dose of too
> potent, lethally potent, molded up substances.
>
> Freedom, denied to a person, is the worst thing that can happen to
> some one. Until your guests can experience life, freely coming and
> going, as they like, and as they choose, voluntarily helping you and
> your family, and your friends, out of love and respect for each other,
> to learn the sciences that you need to learn to allow you to feed all
> the hungry animals inside of your body, and to feed all of the hungry
> organ animals, and cell animals, etc., inside your body, so that you
> can begin to live forever, you will experience difficulties in your
> relationships with each other, that will now and then appear, and
> cause possible problems for you, your family, your friends, and also
> for your guests.
>
> Freedom to choose is a basic right of all people. So let's all be kind ...
>
> read more =BB

If you printed how to do the Vulcan neck pinch, I *might*-- just
might-- take a look.

R

```
From -3894449775542251625
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!fdn.fr!
club-internet.fr!feedme-small.clubint.net!feeder.news.tin.it!
news.greatnowhere.com!reader.greatnowhere.com!not-for-mail
From: "Jeff" <jeff@local.host>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <Bib7i.5640$rW2.4371@newsfe7-
win.ntli.net><3b878$466d85ae$4e08769$26562@DIALUPUSA.NET><fccoi.179652$Sa4.42927@b
gtnsc05-news.ops.worldnet.att.net><5oGoi.758$ie3.194@newsfe3-gui.ntli.net>
<pan.2007.07.22.16.39.18@mixtel.co.uk> <46a3c8b1$0$1631$ed2619ec@ptn-nntp-
reader02.plus.net>
Subject: Re: How to make a 3 Dollar Battery Charger
Date: Mon, 23 Jul 2007 08:15:33 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Lines: 14
Message-ID: <46a455c3$0$1345$834e42db@reader.greatnowhere.com>
NNTP-Posting-Date: 23 Jul 2007 07:16:20 GMT
NNTP-Posting-Host: ee424373.reader.greatnowhere.com
X-Trace: DXC=0ZJQ9CGDYA=WUW9C9@\8k>]XKbj2VKD@:n1RJ3gdIg\;H]<Pm1;VX??
0`mVWf]VU=6UZO1EUVP108h_gI5\B[jR2S:FFYZH>8T=MXjebc5MLJ8`HJldXG6@H982n`hEJoU33LPE`9
:JaZc=gSbL4N4>SG3a7e3>I8nLd2Qba_0XKK1S0cUHefITeYO5Fo^6E5kX=G>
X-Complaints-To: usenet@greatnowhere.com
Xref: g2news1.google.com uk.radio.amateur:120746 rec.radio.amateur.misc:37035
rec.radio.amateur.homebrew:13707
```

"> I used to have a pal called OXO, Jim G6EQK, who used to use something of
a
> similar device to the 3 dollar battery charger on TV tubes when they went
> flat.
>

In fact this is how a lot of early 'live chassis' 405 line TVs worked, except that they used a resistor in place of a light bulb.

73
Jeff

From 6569399791134193741
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!feeder2-2.proxad.net!newsfeed.arcor.de!newsfeed.freenet.de!85.12.40.130.MISMATCH!xlned.com!feeder1.xlned.com!feeder6.cambrium.nl!feeder1.cambrium.nl!feed.tweaknews.nl!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-04!sn-ams!sn-feed-ams-02!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Chris Jones <lugnut808@nospam.yahoo.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: How to make a 3 Dollar Battery Charger
Followup-To: uk.radio.amateur
Date: Mon, 23 Jul 2007 21:04:51 +0100
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13a9usqdumj4a11@corp.supernews.com>
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net> <3b878$466d85ae$4e08769$26562@DIALUPUSA.NET> <fccoi.179652$Sa4.42927@bgtnsc05-news.ops.worldnet.att.net>
User-Agent: KNode/0.7.7
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Complaints-To: abuse@supernews.com
Lines: 28
Xref: g2news1.google.com uk.radio.amateur:120802 rec.radio.amateur.misc:37037 rec.radio.amateur.homebrew:13708

RMS wrote:

>
> "Dr.Ace" <Ace@WH2T.com> wrote in message
> news:3b878$466d85ae$4e08769$26562@DIALUPUSA.NET...
>> 3 Dollar lead acid Battery Charger
>> http://www.alpharubicon.com/elect/3dollarbattggn.htm
>>
>>   Ace, WH2T
>>
>
> Thank you!
>
> RMS

Yuck!!

No voltage regulation at all, let alone the electric shock risk.

If you did connect a sulfated battery to this, the battery could easily drop 60V at normal charging current and it would get extremely hot, extremely fast. I would not like to be near something full of hot sulfuric acid and

```
hydrogen and probably also a source of ignition in due course.

A modified PC power supply would be just as cheap and far safer.

Chris




From 3157088514997162262
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!tethys.csu.net!
nntp.csufresno.edu!sn-xt-sjc-03!sn-xt-sjc-11!sn-xt-sjc-09!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: Chris Jones <lugnut808@nospam.yahoo.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: How to make a 3 Dollar Battery Charger
Followup-To: uk.radio.amateur
Date: Mon, 23 Jul 2007 22:44:59 +0100
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13aa4oiog0hs687@corp.supernews.com>
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>
<3b878$466d85ae$4e08769$26562@DIALUPUSA.NET> <fccoi.179652$Sa4.42927@bgtnsc05-
news.ops.worldnet.att.net> <5oGoi.758$ie3.194@newsfe3-gui.ntli.net>
<pan.2007.07.22.16.39.18@mixtel.co.uk> <no.spam-
FA580E.14151722072007@news.verizon.net>
<me3aa3ddp97okldd6beihijmm86l3je6el@4ax.com>
User-Agent: KNode/0.7.7
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Complaints-To: abuse@supernews.com
Lines: 36
Xref: g2news1.google.com uk.radio.amateur:120813 rec.radio.amateur.misc:37039
rec.radio.amateur.homebrew:13710

Cheemag wrote:

> On Sun, 22 Jul 2007 18:15:34 GMT, Al <no.spam@wanted.com> wrote:
>
>>In article <pan.2007.07.22.16.39.18@mixtel.co.uk>,
>> Mick <mick@mixtel.co.uk> wrote:
>>
>>> On Sun, 22 Jul 2007 10:33:37 +0000, Mike G4KFK wrote:
>>>
>>> > On Sat, 21 Jul 2007 00:12:59 +0000, RMS wrote:
>>> >
>>> >> "Dr.Ace" <Ace@WH2T.com> wrote in message
>>> >> news:3b878$466d85ae$4e08769$26562@DIALUPUSA.NET...
>>> >>> 3 Dollar lead acid Battery Charger
>>> >>> http://www.alpharubicon.com/elect/3dollarbattggn.htm
>>> >
>>> > Don't try this at homes with 240V AC, kiddies!
>>> >
>>>
>>> ...even though it works if you pick a lower wattage bulb to keep the
>>> charging current down. Not a good idea really. :-)
>>>
>>> I've used series lamps a few times when testing "unknown" valve gear as
>>> it helps keep the "holy smoke" inside the transformer box. Cheaper and
>>> less noisy than fuses.
>>
>>I use a variac and monitor the current as I turn it up.
>
>   All of this probably costs more than a cheap battery-charger
> would !
>

Yes, they had some at Lidl a couple of months ago that were VERY cheap and
had regulated charging voltage, and looked like pretty good chargers.

Chris


From 1118986514654558580
X-Google-Thread: fc2a5,845e7f9f92064c2c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.velocitywest.net!
news.velocitywest.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 24 Jul 2007 02:07:05 -0500
Date: Tue, 24 Jul 2007 00:07:17 -0700
From: "H. P. Friedrichs" <nospam@please.com>
User-Agent: Thunderbird 2.0.0.5 (Windows/20070716)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homemade piezo earpiece
References: <1184199916.170012.123060@m3g2000hsh.googlegroups.com>
<1184394620.035119.273010@q75g2000hsh.googlegroups.com>
<1184558858.698611.19610@z28g2000prd.googlegroups.com>
<1184596521.723165.109210@z28g2000prd.googlegroups.com>
In-Reply-To: <1184596521.723165.109210@z28g2000prd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <adGdnXabyYeEODjbnZ2dnUVZ_s3inZ2d@velocitywest.net>
Lines: 29
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 216.183.70.9
X-Trace: sv3-oGez9ByiUVtJogVIjFzEJmeYU3vrOrWhLuLYHqN/4jmiUU01C/
pp5a3l3NgkZoGFImVP0Bl52PnL95G!
0FEE0dw6uKPsnnKHxHhiFQcrKVUNccnHVlqtqAVsAeKZFcQBRkjGv87n5+Cdtt/4vyrSzzWTtrT6!
hqbqi166+91DIKqFPdQcArZn
```

```
X-Complaints-To: abuse@velocitywest.net
X-DMCA-Complaints-To: abuse@velocitywest.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com rec.radio.amateur.homebrew:13711

Just caught the tail end of this conversation, but thought you might
find this of interest:

http://www.hpfriedrichs.com/rr-pzphone.htm

73
Pete
AC7ZL

Arv-K7HKL wrote:
> Go to <http://www.allelectronics.com>  and do a search on their
> website for "piezo".
> They have a number of Piezo elements available at reasonable prices.
> Arv K7HKL
>
> On 15 Jul, 22:07, telcodev <telco...@gmail.com> wrote:
>> On Jul 13, 11:30 pm, lw1ecp <danyper...@yahoo.com.ar> wrote:
>>
>>> I guess a look at the guts of an old piezo tweeter could give you a
>>> hand.
>> I had never heard of a piezo tweeter before your post. They sound like
>> a different type of device than what I am pursuing. I need an earpiece
>> with very high impedance, one that can work off of the nominal
>> potential a crystal radio circuit can produce.
>>
>> But hey, thank you for the feedback, my world is ever so slightly
>> larger than before...
>
>



From -34711678946534557
X-Google-Thread: fc2a5,845e7f9f92064c2c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!x35g2000prf.googlegroups.com!not-for-
mail
From:  telcodev <telcodev@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homemade piezo earpiece
Date: Tue, 24 Jul 2007 19:39:59 -0000
Organization: http://groups.google.com
Lines: 13
Message-ID: <1185305999.238107.7050@x35g2000prf.googlegroups.com>
References: <1184199916.170012.123060@m3g2000hsh.googlegroups.com>
```

```
   <1184394620.035119.273010@q75g2000hsh.googlegroups.com>
   <1184558858.698611.19610@z28g2000prd.googlegroups.com>
   <1184596521.723165.109210@z28g2000prd.googlegroups.com>
   <adGdnXabyYeEODjbnZ2dnUVZ_s3inZ2d@velocitywest.net>
NNTP-Posting-Host: 71.35.189.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1185305999 26483 127.0.0.1 (24 Jul 2007 19:39:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 24 Jul 2007 19:39:59 +0000 (UTC)
In-Reply-To: <adGdnXabyYeEODjbnZ2dnUVZ_s3inZ2d@velocitywest.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: x35g2000prf.googlegroups.com; posting-host=71.35.189.1;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:549
```

On Jul 24, 12:07 am, "H. P. Friedrichs" <nos...@please.com> wrote:

> Just caught the tail end of this conversation, but thought you might
> find this of interest:
>
> http://www.hpfriedrichs.com/rr-pzphone.htm

Thanks Pete,
Very interesting indeed; perhaps I can convince the local library to
stock one of your books.

Christian

```
From 2533508557438107028
X-Google-Thread: 10e8c9,24588f7c8f7033ad
X-Google-Thread: 116029,24588f7c8f7033ad
X-Google-Thread: 107568,24588f7c8f7033ad
X-Google-Thread: fc2a5,24588f7c8f7033ad
X-Google-Thread: fec2a,24588f7c8f7033ad
X-Google-Attributes: gid10e8c9,gid116029,gid107568,gidfc2a5,gidfec2a,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed.iinet.net.au!newsfeed.iinet.net.au!per-qv1-
newsstorage1.iinet.net.au!per-qv1-newsstorage1.iinet.net.au!per-qv1-
newsreader-01.iinet.net.au!not-for-mail
From: "seon ferguson" <seon@iinet.net.au>
Newsgroups: alt.startrek,alt.tv.star-trek.tos,alt.tv.star-
trek.voyager,rec.radio.amateur.homebrew,alt.politics.usa.republican
References: <1184957971.292119.68770@x40g2000prg.googlegroups.com>
Subject: Re: Bomb All Democrats And Republicans! Destroy Capital Hill! Fuck Them
In The Ass And In The Mouth! Kill Them All! Bomb Formulas Can Be Found On My
Bulletin Board!
```

Date: Wed, 25 Jul 2007 10:23:02 +1000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2869
X-RFC2646: Format=Flowed; Original
Lines: 3
Message-ID: <46a697e7$0$31387$5a62ac22@per-qv1-newsreader-01.iinet.net.au>
NNTP-Posting-Host: 203.158.34.228
X-Trace: 1185322983 per-qv1-newsreader-01.iinet.net.au 31387 203.158.34.228
Xref: g2news2.google.com alt.startrek:661 alt.tv.star-trek.tos:1630 alt.tv.star-trek.voyager:1020 rec.radio.amateur.homebrew:550 alt.politics.usa.republican:40579

I find your post quite ilogical.

From 1970740636112973769
X-Google-Thread: fc2a5,bdce2af7a0b3192b,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: microwave oven power supply
Date: Tue, 24 Jul 2007 20:42:18 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Lines: 8
Message-ID: <46a69c64$0$30639$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:551

I picked up a couple of inverter powered microwave ovens at the goodwill and I was wondering if these power suppies can be used wih tube amps and such. Also would like schematic data if I could so I could see if I can modify them for other voltages besides thosed they are designed.

Jimmie

From -7028210674921964427
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!sn-xt-sjc-04!sn-xt-sjc-07!sn-post-
sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: microwave oven power supply
Date: Tue, 24 Jul 2007 21:22:24 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13adcuu1ogqffaa@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
In-Reply-To: <46a69c64$0$30639$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 14
Xref: g2news2.google.com rec.radio.amateur.homebrew:552

Jimmie D wrote:

> I picked up a couple of inverter powered microwave ovens at the goodwill and
> I was wondering if these power suppies can be used wih tube amps and such.
> Also would like schematic data if I could so I could see if I can modify
> them for other voltages besides thosed they are designed.

I didn't know such contraptions existed ;) Please post brand name, model
and nameplate information from them to permit a bit of research. Sounds
like a candidate for the quad 807 linear awaiting a power supply...

Regards,

Michael


From 9061012600916457941
X-Google-Thread: fc2a5,bdce2af7a0b3192b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!out02b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx01.iad01.newshosting.com!newshosting.com!post01.iad01!roadrunner.com!not-for-
mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <46a69c64$0$30639$4c368faf@roadrunner.com>
<13adcuu1ogqffaa@corp.supernews.com>
Subject: Re: microwave oven power supply
Date: Tue, 24 Jul 2007 22:33:53 -0400
X-Priority: 3
X-MSMail-Priority: Normal
```

```
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Lines: 22
Message-ID: <46a6b687$0$4737$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:553


"msg" <msg@_cybertheque.org_> wrote in message
news:13adcuu1ogqffaa@corp.supernews.com...
> Jimmie D wrote:
>
>> I picked up a couple of inverter powered microwave ovens at the goodwill
>> and I was wondering if these power suppies can be used wih tube amps and
>> such. Also would like schematic data if I could so I could see if I can
>> modify them for other voltages besides thosed they are designed.
>
> I didn't know such contraptions existed ;) Please post brand name, model
> and nameplate information from them to permit a bit of research. Sounds
> like a candidate for the quad 807 linear awaiting a power supply...
>
> Regards,
>
> Michael

Cant get to them right now for more data but one is a Sharp and the other a
Panasonic.




From -879344467599046425
X-Google-Thread: fc2a5,b707a6f99686aa95,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-03!sn-xt-sjc-09!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Smokey 807
Date: Tue, 24 Jul 2007 22:53:31 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13adlqkifmjg6f9@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 28
```

```
Xref: g2news2.google.com rec.radio.amateur.homebrew:554

A friend gave me two 807's for my exciter project.  The first one I
tried turned into an 866 and just glowed blue and had a mini lightning
show inside.

The second one looks like it has a coating of soot on the inside or at
least a smoky glass sort of look.  It is so neat and evenly distributed
that it is possible that it was made that way on purpose.  I have never
seen another tube that looked like that and no one I have asked has either.

So, the question is:  could this be intentional or is it indicative of a
tube problem?

I can only seem to get about 10 watts out with about 30 input and wonder
if there could be some connection.

I just ordered a NOS from Antique Radio but thought I would ask anyway.


Pics of this project are at http://schmidling.com/radio.com



Thanks,

js
--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com


From 9059289352898691854
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
Date: Wed, 25 Jul 2007 07:43:50 -0400
From: Me Know <me@here.now>
User-Agent: Thunderbird 1.5.0.12 (X11/20070604)
MIME-Version: 1.0
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
In-Reply-To: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 4
Message-ID: <46a73770$0$32580$4c368faf@roadrunner.com>
```

Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.cb:2201 rec.radio.amateur.equipment:479
rec.radio.amateur.homebrew:555

Telstar Electronics wrote:
> http://www.telstar-electronics.com/default_files/NewProductDevelopment.htm
>
Quit spamming the newsgroups!

From -1907065437387606111
X-Google-Thread: fc2a5,ead5966f46518bd8,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o61g2000hsh.googlegroups.com!not-for-mail
From: peterpion@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Tube Power Oscillator not working properly
Date: Wed, 25 Jul 2007 06:21:00 -0700
Organization: http://groups.google.com
Lines: 79
Message-ID: <1185369660.545823.196480@o61g2000hsh.googlegroups.com>
NNTP-Posting-Host: 194.36.21.132
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1185369660 19862 127.0.0.1 (25 Jul 2007 13:21:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 25 Jul 2007 13:21:00 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.4) Gecko/20060601 Firefox/2.0.0.4 (Ubuntu-edgy),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o61g2000hsh.googlegroups.com; posting-host=194.36.21.132;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:556

Hi,

I am trying to build a tube power oscillator running at 25MHz from a Russian tube (GI6B), and although I have it running, I can't seem to ramp up the power to anywhere near the level I want out of it. I am aiming for 200 to 400 watts, but I seem to be running at just a handful of watts. Everything I have tried that I assumed would control this parameter seems to have failed to work...

The RF is needed not to transmit but to drive a plasma, but for now I just want to get the tank coil running the right voltage level. But with a B+ of about 1000V, I am only getting about 50 volts in the tank coil.

Circuit diagram is available here http://geocities.com/peterpion/oscillator.jpg

Parameters are:
Voltage = 1000V, full wave rectified and smoothed
Tank coil, 5mm copper tube, 7 turns, 5cm diameter, 7cm long, 1.3uH
Tank Cap, air dielectric, 5mm spacing, 13cm square, 31pF, 1.6mm thick copper plates
Tank circuit is capable of taking at least 100A, very heavily soldered
Feedback coil, 5 turns 2mm copper wire, same diameter as tank coil, 5 cm length, placed on same former with gap of 3cm between tank and feedback coil.
B+ choke 120 turns on 32mm diameter former
Bias, external 12V supply, fed via a diode to the ground side of the grid coil, with a 33k resistor going to ground from the same point, bypassed by a 1nF cap.

Although I have it running, both increasing or decreasing the feedback turns reduces the tank voltage.

The tube spec is 350W anode dissipation, mu of 18-26, 2.5KV max, but with heavy grid current requirements it seems, although I am not quite clear on this.

http://www.nd2x.net/gi6b.html

Ive never built anything like this before, and I am lost as to where I am going wrong. Is it that the tube has too little gain to drive itself up to those power levels? I assumed that the low gain would just mean that I had to couple more power back to the grid to make it work. But if I increase the turns on the feedback winding, it actually reduces the power - as does reducing the turns. 5 seems to be optimum.

I have taken care to keep all leads short - very short (1 to 3 inches mostly). Rats nest construction. Have tried several types of caps, all apparently rated for heavy RF use. Even rolled my own caps from copper sheet and polyethelene which work the same as the other caps.

On the scope, I can see that I never drive the grid into positive. This seems wrong to me, but nothing I do makes it go positive. On the plate, all I see on the scope is a tiny 50v drop (at 25MHz) when the tube is supposedly hard on, ie the tube at the most on condition through the cycle, still has about 950V across it. So I assume that I am not turning the grid on enough.

I am wondering if the problem is gain, IE is there too little gain to make it work properly? Do I need to add another tube in a darlington type of arrangement to add enough gain to make it work better?

I want this type of free running oscillator because it should stay in tune as I add small amounts of reactive load (the plasma during warm up etc) - or at least thats what I believe, not being an RF guru I am not certain of this.

If anyone can help me I would appreciate it very much. Having spent the last 2 weeks trying, and read everything I can and searched the web extensivley, I am at a bit of a loss as to what to do next.

I do apologise for probably stupid mistakes / questions (you cant do that! you need a driver stage...? who knows!) but I am sure someone must have done this before so I appeal to them to share their experience!

Thanks, Pete

```
From 551251216261162783
X-Google-Thread: 1118be,2601e21e0b2254b
X-Google-Thread: 108ff0,2601e21e0b2254b
X-Google-Thread: 110694,2601e21e0b2254b
X-Google-Thread: fc2a5,2601e21e0b2254b
X-Google-Thread: 1072db,2601e21e0b2254b
X-Google-Attributes:
gid1118be,gid108ff0,gid110694,gidfc2a5,gid1072db,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o61g2000hsh.googlegroups.com!not-for-
mail
From:  Mad Scientist Jr <usenet_daughter@yahoo.com>
Newsgroups:
sci.electronics.components,alt.music.makers.electronic,rec.music.makers.guitar,rec
.radio.amateur.homebrew,alt.inventors
Subject: Re: flush mount plastic 9v battery holder/compartment with cover?
Date: Wed, 25 Jul 2007 19:49:17 -0000
Organization: http://groups.google.com
Lines: 16
Message-ID: <1185392957.513585.69920@o61g2000hsh.googlegroups.com>
References: <1184799606.096177.218550@x40g2000prg.googlegroups.com>
   <_cxni.12330$ya1.6162@news02.roc.ny>
NNTP-Posting-Host: 12.150.126.82
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1185392957 22024 127.0.0.1 (25 Jul 2007 19:49:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 25 Jul 2007 19:49:17 +0000 (UTC)
In-Reply-To: <_cxni.12330$ya1.6162@news02.roc.ny>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.5)
Gecko/20070713 Firefox/2.0.0.5,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o61g2000hsh.googlegroups.com; posting-host=12.150.126.82;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com sci.electronics.components:1817
alt.music.makers.electronic:175 rec.music.makers.guitar:933
rec.radio.amateur.homebrew:557 alt.inventors:225
```

Those will work. The $11 one is a better deal, you can get your own

battery snap for pennies...
Thanks!

On Jul 18, 7:18 pm, gwatts <gwa...@frontiernet.net> wrote:
> Mad Scientist Jr wrote:
> > Does anyone know where you can order a plastic 9v battery holder with
> > a snap off cover that flush mounts in a project box, guitar body, etc?
> > It would be like the AA battery holder in this Synsonics Terminator
> > guitar except for 9v...
>
> There are a few here:
>
> http://www.guitarpartsresource.com/electrical_other.htm

```
From -2952215905166562636
X-Google-Thread: 1118be,2601e21e0b2254b
X-Google-Thread: 108ff0,2601e21e0b2254b
X-Google-Thread: 110694,2601e21e0b2254b
X-Google-Thread: fc2a5,2601e21e0b2254b
X-Google-Thread: 1072db,2601e21e0b2254b
X-Google-Attributes:
gid1118be,gid108ff0,gid110694,gidfc2a5,gid1072db,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o61g2000hsh.googlegroups.com!not-for-
mail
From:  Mad Scientist Jr <usenet_daughter@yahoo.com>
Newsgroups:
sci.electronics.components,alt.music.makers.electronic,rec.music.makers.guitar,rec
.radio.amateur.homebrew,alt.inventors
Subject: Re: flush mount plastic 9v battery holder/compartment with cover?
Date: Wed, 25 Jul 2007 19:50:07 -0000
Organization: http://groups.google.com
Lines: 30
Message-ID: <1185393007.291359.71950@o61g2000hsh.googlegroups.com>
References: <1184799606.096177.218550@x40g2000prg.googlegroups.com>
   <_cxni.12330$ya1.6162@news02.roc.ny>
   <469f357b$0$497$815e3792@news.qwest.net>
   <CWMni.12374$ya1.5807@news02.roc.ny>
   <46a00ad0$0$499$815e3792@news.qwest.net>
NNTP-Posting-Host: 12.150.126.82
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1185393007 21539 127.0.0.1 (25 Jul 2007 19:50:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 25 Jul 2007 19:50:07 +0000 (UTC)
In-Reply-To: <46a00ad0$0$499$815e3792@news.qwest.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.5)
Gecko/20070713 Firefox/2.0.0.5,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
```

```
Injection-Info: o61g2000hsh.googlegroups.com; posting-host=12.150.126.82;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com sci.electronics.components:1818
alt.music.makers.electronic:176 rec.music.makers.guitar:934
rec.radio.amateur.homebrew:558 alt.inventors:226

That'll work - and it's cheap too. Thanks for pointing that one
out...

On Jul 19, 9:08 pm, PhattyMo <Phatt...@nospam.gmail> wrote:
> gwatts wrote:
> > PhattyMo wrote:
> >> gwatts wrote:
>
> >>> Mad Scientist Jr wrote:
>
> >>>> Does anyone know where you can order a plastic 9v battery holder with
> >>>> a snap off cover that flush mounts in a project box, guitar body, etc?
> >>>> It would be like the AA battery holder in this Synsonics Terminator
> >>>> guitar except for 9v...
>
> >>> There are a few here:
>
> >>>http://www.guitarpartsresource.com/electrical_other.htm
>
> >> $16 for a battery holder!!?#$
>
> >> Bring your Vaseline.
>
> > Do you have any better suggestions for what Mad Sci Jr. wants?
>
> Maybe "Figure H" here..?http://www.mouser.com/catalog/630/1742.PDF
>
> And it's only $4.




From 8215461831282341812
X-Google-Thread: fc2a5,b707a6f99686aa95
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!
stamper.news.pas.earthlink.net!newsread2.news.pas.earthlink.net.POSTED!6bb7efb4!
not-for-mail
From: "Richard Knoppow" <dickburk@ix.netcom.com>
Newsgroups: rec.radio.amateur.homebrew
References: <13adlqkifmjg6f9@corp.supernews.com>
Subject: Re: Smokey 807
Lines: 43
X-Priority: 3
X-MSMail-Priority: Normal
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X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <StOpi.10722$rR.5316@newsread2.news.pas.earthlink.net>
Date: Wed, 25 Jul 2007 20:34:58 GMT
NNTP-Posting-Host: 4.232.198.98
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1185395698 4.232.198.98 (Wed, 25 Jul
2007 13:34:58 PDT)
NNTP-Posting-Date: Wed, 25 Jul 2007 13:34:58 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:559
```

"Jack Schmidling" <arf@mc.net> wrote in message
news:13adlqkifmjg6f9@corp.supernews.com...

> A friend gave me two 807's for my exciter project. The
> first one I tried turned into an 866 and just glowed blue
> and had a mini lightning show inside.
>
> The second one looks like it has a coating of soot on the
> inside or at least a smoky glass sort of look. It is so
> neat and evenly distributed that it is possible that it
> was made that way on purpose. I have never seen another
> tube that looked like that and no one I have asked has
> either.
>
> So, the question is: could this be intentional or is it
> indicative of a tube problem?
>
> I can only seem to get about 10 watts out with about 30
> input and wonder if there could be some connection.
>
> I just ordered a NOS from Antique Radio but thought I
> would ask anyway.
>
>
> Pics of this project are at
> http://schmidling.com/radio.com

The first tube is obviously seriously gassy. Black coating were applied to some tubes but I don't remember seeing it on 807's, just some receiver tubes. It might also be a deposit of something from the filiment/heater. Do you have a tube tester? Many will test 807's. Low power output may be due to low filiment emmission the tester will tell you.

--

Richard Knoppow
Los Angeles, CA, USA

dickburk@ix.netcom.com

From 7902822534523973474
X-Google-Thread: fc2a5,ead5966f46518bd8
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newshub.sdsu.edu!sn-xt-sjc-03!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Bob Liesenfeld" <wb0poq@visi.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube Power Oscillator not working properly
Date: Wed, 25 Jul 2007 16:09:03 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13afevj6vq9hm6b@corp.supernews.com>
References: <1185369660.545823.196480@o61g2000hsh.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 27
Xref: g2news2.google.com rec.radio.amateur.homebrew:560

I think the fact that you do not have a load on the output tank, is what is limiting the >power< output. Power tubes require a particular load Z to deliver 'rated' power. Right now all I see is a parallel LC tank which will be high Z. You quote a voltage of 50V "in the tank coil". How are you measuring this?
Can you monitor plate current? If so, that times the applied plate voltage will give you your DC input power. Power out will >always< be less than this amount.
Also, are you sure your HV supply has the current capacity for the 200-400W you want to get out? (This may mean something like 300-600W, or more, DC input power).
Are you taking steps to prevent radiation of the generated RF into the wider environment? The level of power you are talking can reek havoc with other licensed users. The FCC could pay you a visit.
Finally, BE CAREFUL! These DC voltages can kill, and you have not lived until you have gotten an RF burn from 100W, much less 300-400W.

Bob WB0POQ
<peterpion@yahoo.com> wrote in message
news:1185369660.545823.196480@o61g2000hsh.googlegroups.com...
> Hi,
>
> I am trying to build a tube power oscillator running at 25MHz from a
> Russian tube (GI6B), and although I have it running, I can't seem to
> ramp up the power to anywhere near the level I want out of it.

From 6355659865759177465
X-Google-Thread: fc2a5,ead5966f46518bd8
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-mail
From: peterpion@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube Power Oscillator not working properly
Date: Wed, 25 Jul 2007 17:48:00 -0700
Organization: http://groups.google.com
Lines: 58
Message-ID: <1185410880.874695.280870@q75g2000hsh.googlegroups.com>
References: <1185369660.545823.196480@o61g2000hsh.googlegroups.com>
   <13afevj6vq9hm6b@corp.supernews.com>
NNTP-Posting-Host: 77.75.107.122
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1185410881 6576 127.0.0.1 (26 Jul 2007 00:48:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Jul 2007 00:48:01 +0000 (UTC)
In-Reply-To: <13afevj6vq9hm6b@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.4) Gecko/20060601 Firefox/2.0.0.4 (Ubuntu-edgy),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q75g2000hsh.googlegroups.com; posting-host=77.75.107.122;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:561

Hi Bob thanks for the attention,

Re the load, I am using a soft iron 'poker' which I bring close to / into the tank coil to provide a load which I can easily tell when power is delivered into. So I fire the circuit up with the scope connected to a certain point, then increase the load by bringing the poker closer to or into the coil. The iron looks like a very close to resistance load, the Z varies with the proximity. So I cat test all loads from high Z to a few ohms. If the iron gets hot, I am delivering a decent amount of power - got some decent power with a circuit like this running at 7 MHz with the iron getting very hot.

While doing this I monitor the voltage on the plate or tank coil with a scope. So the 50V is the best peak to peak voltage across the tank coil.

Loading the circuit more reduces the pp voltage in the tank. And since the tank Z is about 200R, p=e(squared)/r so p=1.6 watts in the tank circuit.

Plate current is around 100mA but this is mostly dumped into the anode as heat.

PSU is half amp MOT plus variac, bridge rectifier and 10uF cap. Shunts are removed from MOT. Plenty of power available, about 1kW.

As for shielding, when running at full power the whole thing will be screened including the load. Till then though, the tops off although I dont think that much will radiate from the exposed leads even when the power gets up to decent levels.

As for RF burns, yes I am rather nervous about that too... I am used to working around up to about 20kv but this RF angle is a new thing, so I am being cautious. Painful experience is the best way to learn your lesson and I have had it :-(

Anyway thanks for the suggestions.

On Jul 25, 10:09 pm, "Bob Liesenfeld" <wb0...@visi.com> wrote:
> I think the fact that you do not have a load on the output tank, is what is
> limiting the >power< output. Power tubes require a particular load Z to
> deliver 'rated' power. Right now all I see is a parallel LC tank which will
> be high Z. You quote a voltage of 50V "in the tank coil". How are you
> measuring this?
> Can you monitor plate current? If so, that times the applied plate voltage
> will give you your DC input power. Power out will >always< be less than
> this amount.
> Also, are you sure your HV supply has the current capacity for the 200-400W
> you want to get out? (This may mean something like 300-600W, or more, DC
> input power).
> Are you taking steps to prevent radiation of the generated RF into the wider
> environment? The level of power you are talking can reek havoc with other
> licensed users. The FCC could pay you a visit.
> Finally, BE CAREFUL! These DC voltages can kill, and you have not lived
> until you have gotten an RF burn from 100W, much less 300-400W.

From 946167924538119322
X-Google-Thread: fc2a5,ead5966f46518bd8
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.stanford.edu!newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-02!sn-xt-sjc-09!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Bob Liesenfeld" <wb0poq@visi.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube Power Oscillator not working properly
Date: Wed, 25 Jul 2007 21:22:56 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13ag1c4f3nfqc1e@corp.supernews.com>

References: <1185369660.545823.196480@o61g2000hsh.googlegroups.com>
<13afevj6vq9hm6b@corp.supernews.com>
<1185410880.874695.280870@q75g2000hsh.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 10
Xref: g2news2.google.com rec.radio.amateur.homebrew:562

> Loading the circuit more reduces the pp voltage in the tank. And since
> the tank Z is about 200R, p=e(squared)/r so p=1.6 watts in the tank
> circuit.

Where are you getting the "200R" value from? (And what is 'R'?)
Another thought is to change the L/C ratio which should give a different
loaded Q with a given poker position. This may provide more power out.

From -8870325272278415432
X-Google-Thread: fc2a5,ead5966f46518bd8
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
From: Doug Smith W9WI <w9wi@invalid.nospam>
Subject: Re: Tube Power Oscillator not working properly
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.07.26.03.35.34.889091@invalid.nospam>
Newsgroups: rec.radio.amateur.homebrew
References: <1185369660.545823.196480@o61g2000hsh.googlegroups.com>
<13afevj6vq9hm6b@corp.supernews.com>
<1185410880.874695.280870@q75g2000hsh.googlegroups.com>
<13ag1c4f3nfqc1e@corp.supernews.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 15
Date: Thu, 26 Jul 2007 03:35:24 GMT
NNTP-Posting-Host: 4.152.183.130
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1185420924 4.152.183.130 (Wed, 25 Jul
2007 20:35:24 PDT)
NNTP-Posting-Date: Wed, 25 Jul 2007 20:35:24 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:563

On Wed, 25 Jul 2007 21:22:56 -0500, Bob Liesenfeld wrote:
>> Loading the circuit more reduces the pp voltage in the tank. And since
>> the tank Z is about 200R, p=e(squared)/r so p=1.6 watts in the tank
>> circuit.
>
> Where are you getting the "200R" value from? (And what is 'R'?)

200R is British for 200 ohms.

(which does seem a bit low for a proper match, for 1kv plate voltage and
~300w RF out shouldn't the tank Z be closer to 3,000 ohms?)

(or is my sleep deprivation showing?)

From -1694202280415546977
X-Google-Thread: fc2a5,ead5966f46518bd8
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!feeder3.cambrium.nl!feed.tweaknews.nl!
newsfeed.kamp.net!newsfeed.kamp.net!news.germany.com!aioe.org!not-for-mail
From: Steve H <mycall@tfif.co.ukk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube Power Oscillator not working properly
Date: Thu, 26 Jul 2007 09:53:09 +0100
Organization: Aioe.org NNTP Server
Lines: 86
Message-ID: <f89ndm$nf4$1@aioe.org>
References: <1185369660.545823.196480@o61g2000hsh.googlegroups.com>
NNTP-Posting-Host: 4fRIdokwdJKQta2CLDXC6A.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
In-Reply-To:
User-Agent: Thunderbird 2.0.0.5 (Windows/20070716)
Xref: g2news2.google.com rec.radio.amateur.homebrew:564

peterpion@yahoo.com wrote:
> Hi,
>
> I am trying to build a tube power oscillator running at 25MHz from a
> Russian tube (GI6B), and although I have it running, I can't seem to
> ramp up the power to anywhere near the level I want out of it. I am
> aiming for 200 to 400 watts, but I seem to be running at just a
> handful of watts. Everything I have tried that I assumed would control
> this parameter seems to have failed to work...
>
> The RF is needed not to transmit but to drive a plasma, but for now I
> just want to get the tank coil running the right voltage level. But
> with a B+ of about 1000V, I am only getting about 50 volts in the tank

> coil.
>
> Circuit diagram is available here http://geocities.com/peterpion/oscillator.jpg
>
> Parameters are:
> Voltage = 1000V, full wave rectified and smoothed
> Tank coil, 5mm copper tube, 7 turns, 5cm diameter, 7cm long, 1.3uH
> Tank Cap, air dielectric, 5mm spacing, 13cm square, 31pF, 1.6mm thick copper plates
> Tank circuit is capable of taking at least 100A, very heavily soldered
> Feedback coil, 5 turns 2mm copper wire, same diameter as tank coil, 5 cm length, placed on same former with gap of 3cm between tank and feedback coil.
> B+ choke 120 turns on 32mm diameter former
> Bias, external 12V supply, fed via a diode to the ground side of the grid coil, with a 33k resistor going to ground from the same point, bypassed by a 1nF cap.
>
> Although I have it running, both increasing or decreasing the feedback turns reduces the tank voltage.
>
> The tube spec is 350W anode dissipation, mu of 18-26, 2.5KV max, but with heavy grid current requirements it seems, although I am not quite clear on this.
>
> http://www.nd2x.net/gi6b.html
>
> Ive never built anything like this before, and I am lost as to where I am going wrong. Is it that the tube has too little gain to drive itself up to those power levels? I assumed that the low gain would just mean that I had to couple more power back to the grid to make it work. But if I increase the turns on the feedback winding, it actually reduces the power - as does reducing the turns. 5 seems to be optimum.
>
> I have taken care to keep all leads short - very short (1 to 3 inches mostly). Rats nest construction. Have tried several types of caps, all apparently rated for heavy RF use. Even rolled my own caps from copper sheet and polyethylene which work the same as the other caps.
>
> On the scope, I can see that I never drive the grid into positive. This seems wrong to me, but nothing I do makes it go positive. On the plate, all I see on the scope is a tiny 50v drop (at 25MHz) when the tube is supposedly hard on, ie the tube at the most on condition through the cycle, still has about 950V across it. So I assume that I am not turning the grid on enough.
>
> I am wondering if the problem is gain, IE is there too little gain to make it work properly? Do I need to add another tube in a Darlington type of arrangement to add enough gain to make it work better?
>
> I want this type of free running oscillator because it should stay in tune as I add small amounts of reactive load (the plasma during warm

> up etc) - or at least thats what I believe, not being an RF guru I am not certain of this.
>
> If anyone can help me I would appreciate it very much. Having spent the last 2 weeks trying, and read everything I can and searched the web extensively, I am at a bit of a loss as to what to do next.
>
> I do apologize for probably stupid mistakes / questions (you cant do that! you need a driver stage...? who knows!) but I am sure someone must have done this before so I appeal to them to share their experience!
>
> Thanks, Pete
>

With only 1KV on the anode you are unlikely to get more than 40W out. You need to be nearer to 2.5KV with a lot of cooling to get anywhere near 400W. Good layout is vital with this tube, they are good to 3GHz and will take off without some sort of stopper in the anode cct.

Steve H

```
From -4733873643962305821
X-Google-Thread: fc2a5,ead5966f46518bd8
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!x40g2000prg.googlegroups.com!not-for-
mail
From:  MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube Power Oscillator not working properly
Date: Thu, 26 Jul 2007 02:52:55 -0700
Organization: http://groups.google.com
Lines: 107
Message-ID: <1185443575.755143.180450@x40g2000prg.googlegroups.com>
References: <1185369660.545823.196480@o61g2000hsh.googlegroups.com>
   <f89ndm$nf4$1@aioe.org>
NNTP-Posting-Host: 222.155.162.117
Mime-Version: 1.0
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X-Trace: posting.google.com 1185443576 30640 127.0.0.1 (26 Jul 2007 09:52:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Jul 2007 09:52:56 +0000 (UTC)
In-Reply-To: <f89ndm$nf4$1@aioe.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: x40g2000prg.googlegroups.com; posting-host=222.155.162.117;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:565
```

Also... borrow a GHz Spectrum Analyser and chech that the unit is running at the expected freq. What bandwidth is your scope ?

An anode APC is also a very good idea. A few turn of 16AWG around a 2W 4R7 maybe a good start.

Any chance of cranking Va up to 1500V just to see how much power increases ?

Don't forget a fresh change of underwear and a fire extiguisher :)

Regards,

Mark

On Jul 26, 8:53 pm, Steve H <myc...@tfif.co.ukk> wrote:
> peterp...@yahoo.com wrote:
> > Hi,
>
> > I am trying to build a tube power oscillator running at 25MHz from a
> > Russian tube (GI6B), and although I have it running, I can't seem to
> > ramp up the power to anywhere near the level I want out of it. I am
> > aiming for 200 to 400 watts, but I seem to be running at just a
> > handful of watts. Everything I have tried that I assumed would control
> > this parameter seems to have failed to work...
>
> > The RF is needed not to transmit but to drive a plasma, but for now I
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> > with a B+ of about 1000V, I am only getting about 50 volts in the tank
> > coil.
>
> > Circuit diagram is available herehttp://geocities.com/peterpion/oscillator.jpg
>
> > Parameters are:
> > Voltage = 1000V, full wave rectified and smoothed
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> > Tank Cap, air dielectric, 5mm spacing, 13cm square, 31pF, 1.6mm thick
> > copper plates
> > Tank circuit is capable of taking at least 100A, very heavily soldered
> > Feedback coil, 5 turns 2mm copper wire, same diameter as tank coil, 5
> > cm length, placed on same former with gap of 3cm between tank and
> > feedback coil.
> > B+ choke 120 turns on 32mm diameter former
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> > bypassed by a 1nF cap.
>
> > Although I have it running, both increasing or decreasing the feedback
> > turns reduces the tank voltage.
>
> > The tube spec is 350W anode dissipation, mu of 18-26, 2.5KV max, but
> > with heavy grid current requirements it seems, although I am not quite
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>
> >http://www.nd2x.net/gi6b.html
>
> > Ive never built anything like this before, and I am lost as to where I
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> > itself up to those power levels? I assumed that the low gain would
> > just mean that I had to couple more power back to the grid to make it
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>
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> > apparently rated for heavy RF use. Even rolled my own caps from copper
> > sheet and polyethylene which work the same as the other caps.
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> > On the scope, I can see that I never drive the grid into positive.
> > This seems wrong to me, but nothing I do makes it go positive. On the
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> > tube is supposedly hard on, ie the tube at the most on condition
> > through the cycle, still has about 950V across it. So I assume that I
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>
> > I am wondering if the problem is gain, IE is there too little gain to
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> > type of arrangement to add enough gain to make it work better?
>
> > I want this type of free running oscillator because it should stay in
> > tune as I add small amounts of reactive load (the plasma during warm
> > up etc) - or at least thats what I believe, not being an RF guru I am
> > not certain of this.
>
> > If anyone can help me I would appreciate it very much. Having spent
> > the last 2 weeks trying, and read everything I can and searched the
> > web extensively, I am at a bit of a loss as to what to do next.
>
> > I do apologize for probably stupid mistakes / questions (you cant do
> > that! you need a driver stage...? who knows!) but I am sure someone
> > must have done this before so I appeal to them to share their
> > experience!
>
> > Thanks, Pete
>
> With only 1KV on the anode you are unlikely to get more than 40W out.
> You need to be nearer to 2.5KV with a lot of cooling to get anywhere
> near 400W. Good layout is vital with this tube, they are good to 3GHz
> and will take off without some sort of stopper in the anode cct.
>
> Steve H- Hide quoted text -
>
> - Show quoted text -

From -1880159799995864121
X-Google-Thread: fc2a5,ead5966f46518bd8
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l70g2000hse.googlegroups.com!not-for-mail
From: peterpion@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube Power Oscillator not working properly
Date: Thu, 26 Jul 2007 04:40:41 -0700
Organization: http://groups.google.com
Lines: 63
Message-ID: <1185450041.412586.325860@l70g2000hse.googlegroups.com>
References: <1185369660.545823.196480@o61g2000hsh.googlegroups.com>
   <13afevj6vq9hm6b@corp.supernews.com>
   <1185410880.874695.280870@q75g2000hsh.googlegroups.com>
   <13ag1c4f3nfqc1e@corp.supernews.com>
   <pan.2007.07.26.03.35.34.889091@invalid.nospam>
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Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1185450041 14810 127.0.0.1 (26 Jul 2007 11:40:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Jul 2007 11:40:41 +0000 (UTC)
In-Reply-To: <pan.2007.07.26.03.35.34.889091@invalid.nospam>
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Complaints-To: groups-abuse@google.com
Injection-Info: l70g2000hse.googlegroups.com; posting-host=194.36.21.132;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:566

Well im not completley certain - heres some of my maths.

Far as I have read, for Class C operations,

Load Z should = Plate voltage/2 * Plate current

And since I am aiming for plate current of 300mA or so (for power of 300 watts at 1kV) then thats

1000/2*0.3 = about 1500 ohms (R).

Then tank Z should = load Z / Q

For a Q of 7.5, which is slightly below average I think, thats 1500/7.5 which is 200R tank Z.

Then via Xl = 2piFL, Xl is 2 * 3.14 * 25M * 1.3u which = 204R
and

via Xc = 1/2piFC, Xc is 1 / (2 * 3.14 * 25M * 30p) which = 212R

So the tuned circuit is going to buzz at a slightly higher F than 25MHz but only slightly, at a Z of about 208R. I think stray values are larger than the difference here so this is not worth worrying about.

Thats my understanding of the maths having studied it over the last few weeks and I am pretty sure its in the right ballpark, although the Z could be a bit high or a bit low for the tube conditions. But since the thing buzzes at 25MHz the F is right, and if the Z is a bit off this just means the Q is a bit off and I understand this is not a critical parameter for power.

Also to back this up, the tank Z and tank coil and tank cap values are about the same as you see in published designs for this tube (GI6B), this power level, and this frequency (eg http://www.nd2x.net/yu1aw/1xgi7-6m-schem.GIF
- its a GI7B but apparently they are almost identical). Ive compared with a few circuits for these tubes and they are all similar.

Only thing of course is that they all use grounded grid, which is not anything like the grounded cathode I am using.

Of course if I have my tank Z wrong, this would surely cause power problems. But as I say, I cant see anything wrong with these values, but maybe thats my lack of knowledge...

Thanks for the help so far...

On Jul 26, 4:35 am, Doug Smith W9WI <w...@invalid.nospam> wrote:
> On Wed, 25 Jul 2007 21:22:56 -0500, Bob Liesenfeld wrote:
> >> Loading the circuit more reduces the pp voltage in the tank. And since
> >> the tank Z is about 200R, p=e(squared)/r so p=1.6 watts in the tank
> >> circuit.
>
> > Where are you getting the "200R" value from? (And what is 'R'?)
>
> 200R is British for 200 ohms.
>
> (which does seem a bit low for a proper match, for 1kv plate voltage and
> ~300w RF out shouldn't the tank Z be closer to 3,000 ohms?)
>
> (or is my sleep deprivation showing?)

From -2913273675229520659
X-Google-Thread: fc2a5,ead5966f46518bd8
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!g4g2000hsf.googlegroups.com!not-for-

mail
From: peterpion@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube Power Oscillator not working properly
Date: Thu, 26 Jul 2007 06:08:41 -0700
Organization: http://groups.google.com
Lines: 20
Message-ID: <1185455321.960538.25370@g4g2000hsf.googlegroups.com>
References: <1185369660.545823.196480@o61g2000hsh.googlegroups.com>
   <f89ndm$nf4$1@aioe.org>
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Mime-Version: 1.0
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X-Trace: posting.google.com 1185455322 30198 127.0.0.1 (26 Jul 2007 13:08:42 GMT)
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In-Reply-To: <f89ndm$nf4$1@aioe.org>
User-Agent: G2/1.0
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Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=194.36.21.132;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:567

Thats interesting - whats a stopper in the anode circuit? The
combination of a resistor and an inductor? And if the tube does take
off at 3GHz, will I get fried by the microwaves??!

Regarding good layout, what should I be watching out for? Is this just
a matter of short leads, or do things like the position of the tank
coil relative to the tube matter?

Re voltage, I have cranked this up to 2.2kV (its on a variac) with no
extra joy - the tube gets very hot very quick (of course) but the tank
circuit dosent get any more voltage across it.

> With only 1KV on the anode you are unlikely to get more than 40W out.
> You need to be nearer to 2.5KV with a lot of cooling to get anywhere
> near 400W. Good layout is vital with this tube, they are good to 3GHz
> and will take off without some sort of stopper in the anode cct.
>
> Steve H

From 1507872379711545288
X-Google-Thread: fc2a5,ead5966f46518bd8
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-mail

From: peterpion@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube Power Oscillator not working properly
Date: Thu, 26 Jul 2007 06:15:48 -0700
Organization: http://groups.google.com
Lines: 25
Message-ID: <1185455748.492992.219590@q75g2000hsh.googlegroups.com>
References: <1185369660.545823.196480@o61g2000hsh.googlegroups.com>
   <f89ndm$nf4$1@aioe.org>
   <1185443575.755143.180450@x40g2000prg.googlegroups.com>
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NNTP-Posting-Date: Thu, 26 Jul 2007 13:15:49 +0000 (UTC)
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Complaints-To: groups-abuse@google.com
Injection-Info: q75g2000hsh.googlegroups.com; posting-host=194.36.21.132;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:568

GHZ spectrum analyser would be a nice bit of kit to borrow, but I dont know anyone with one - which is a pity. The scope is 40MHz so 25MHz is pretty close to its max and the resolution is not the best. Waveform is fairly symmetrical so I think the fundemental is right at 25MHz.

Ill do the APC tonight, what difference will it make?

As for 1.5kV - yup, I have had it cranked to full, 2.2kV, and no extra power really (maybe a slight amount, but I am looking for 1kv swing where I am only seeing 50v so its not even close). Underwear got messy... makes the hair on the back of my neck stand up from fear to be that close to a 10u cap charged to 2.2kv...!

> Also... borrow a GHz Spectrum Analyser and chech that the unit is
> running at the expected freq. What bandwidth is your scope ?
>
> An anode APC is also a very good idea. A few turn of 16AWG around a 2W
> 4R7 maybe a good start.
>
> Any chance of cranking Va up to 1500V just to see how much power
> increases ?
>
> Don't forget a fresh change of underwear and a fire extiguisher :)

From -4275800142405050190

X-Google-Thread: fc2a5,ead5966f46518bd8
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube Power Oscillator not working properly
Date: Thu, 26 Jul 2007 11:58:54 -0700
Organization: http://groups.google.com
Lines: 50
Message-ID: <1185476334.293136.303950@q75g2000hsh.googlegroups.com>
References: <1185369660.545823.196480@o61g2000hsh.googlegroups.com>
   <f89ndm$nf4$1@aioe.org>
   <1185443575.755143.180450@x40g2000prg.googlegroups.com>
   <1185455748.492992.219590@q75g2000hsh.googlegroups.com>
NNTP-Posting-Host: 222.155.162.117
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1185476334 10029 127.0.0.1 (26 Jul 2007 18:58:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Jul 2007 18:58:54 +0000 (UTC)
In-Reply-To: <1185455748.492992.219590@q75g2000hsh.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q75g2000hsh.googlegroups.com; posting-host=222.155.162.117;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news2.google.com rec.radio.amateur.homebrew:569

The APC is intended to be resistive (damps Q) at high freq and very low reactance at operation freq. I should have mentioned that the 4R7 should be a carbon resistor (not wire wound).

I hope that the anode isolation inductor is mounted away, so can't form part of the tuned circuit... What value is the inductor you are using ?

Just for getting the anode tuning sorted out, have you considered driving the grid with a crystal oscillator source and a suitable buffer - this splits the problem in two. A few volts of drive should be a good start, maybe a CMOS oscillator driving some paralleled 74AC04 buffers, that will give you 5V P-P drive into a 1:2 torridal transformer, 10V P-P may be useful dive ?

Just out of interest, why haven't you gone for Grounded Grid configuration ?

-Mark

On Jul 27, 1:15 am, peterp...@yahoo.com wrote:

> GHZ spectrum analyser would be a nice bit of kit to borrow, but I dont

> know anyone with one - which is a pity. The scope is 40MHz so 25MHz is
> pretty close to its max and the resolution is not the best. Waveform
> is fairly symmetrical so I think the fundemental is right at 25MHz.
>
> Ill do the APC tonight, what difference will it make?
>
> As for 1.5kV - yup, I have had it cranked to full, 2.2kV, and no extra
> power really (maybe a slight amount, but I am looking for 1kv swing
> where I am only seeing 50v so its not even close). Underwear got
> messy... makes the hair on the back of my neck stand up from fear to
> be that close to a 10u cap charged to 2.2kv...!
>
>
>
> > Also... borrow a GHz Spectrum Analyser and chech that the unit is
> > running at the expected freq. What bandwidth is your scope ?
>
> > An anode APC is also a very good idea. A few turn of 16AWG around a 2W
> > 4R7 maybe a good start.
>
> > Any chance of cranking Va up to 1500V just to see how much power
> > increases ?
>
> > Don't forget a fresh change of underwear and a fire extiguisher :)- Hide
quoted text -
>
> - Show quoted text -

From -3541888553441756905
X-Google-Thread: fc2a5,ead5966f46518bd8
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe17.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1185369660.545823.196480@o61g2000hsh.googlegroups.com>
<f89ndm$nf4$1@aioe.org> <1185455321.960538.25370@g4g2000hsf.googlegroups.com>
Subject: Re: Tube Power Oscillator not working properly
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <fp7qi.97893$wG2.18005@newsfe17.lga>
Date: Thu, 26 Jul 2007 16:23:38 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net

X-Trace: newsfe17.lga 1185481419 68.0.230.122 (Thu, 26 Jul 2007 13:23:39 MST)
NNTP-Posting-Date: Thu, 26 Jul 2007 13:23:39 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:570

<peterpion@yahoo.com> wrote in message
news:1185455321.960538.25370@g4g2000hsf.googlegroups.com...
> Thats interesting - whats a stopper in the anode circuit? The
> combination of a resistor and an inductor? And if the tube does take
> off at 3GHz, will I get fried by the microwaves??!
>

VHF oscillations will develop extremely high RF voltages since the
tank coil will look like a high impedance RFC and there will be
no load. Expect to see a lot of arcing.

Pete

>
>

From 9214634489134812693
X-Google-Thread: fc2a5,d1e2832b2098d476,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!hwmnpeer01.phx!news.highwinds-media.com!hw-filter.phx!newsfe07.phx.POSTED!53ab2750!not-for-mail
From: "The Shadow" <Repose@Zilch.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HomeBrew Round Up
Lines: 6
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <2u7qi.280$Vk6.51@newsfe07.phx>
Date: Thu, 26 Jul 2007 13:32:33 -0700
NNTP-Posting-Host: 72.197.13.209
X-Complaints-To: admin@cox.net
X-Trace: newsfe07.phx 1185481726 72.197.13.209 (Thu, 26 Jul 2007 13:28:46 MST)
NNTP-Posting-Date: Thu, 26 Jul 2007 13:28:46 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:571

Updated -- Hundreds of projects at URL:
http://ac6v.com/homebrew.htm

Lamont

From 6636257242695319538
X-Google-Thread: fc2a5,ead5966f46518bd8
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 26 Jul 2007 18:51:48 -0500
Date: Thu, 26 Jul 2007 16:57:57 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube Power Oscillator not working properly
References: <1185369660.545823.196480@o61g2000hsh.googlegroups.com> <f89ndm$nf4$1@aioe.org>
In-Reply-To: <f89ndm$nf4$1@aioe.org>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <x-2dnbRMbI8JrjTbnZ2dnUVZ_vninZ2d@web-ster.com>
Lines: 108
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-PK9W21cOiHLxetU3dXmgmf90HNoGF6fZCQpMW+R7Tlf9+iT3hY9A0GYUmnu428MTVh2UBYwg6GV+/Sd!MGBt4NU5Ylreo1vo+OilHY8k3oOEKJzFgb+/4v1gB3ZGInKkTieaL4BKM46itkPuMGGrIDWLaZOb!gukAKr/W5TLFhSyT
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news2.google.com rec.radio.amateur.homebrew:572

Steve H wrote:
> peterpion@yahoo.com wrote:
>> Hi,
>>
>> I am trying to build a tube power oscillator running at 25MHz from a Russian tube (GI6B), and although I have it running, I can't seem to ramp up the power to anywhere near the level I want out of it. I am aiming for 200 to 400 watts, but I seem to be running at just a handful of watts. Everything I have tried that I assumed would control this parameter seems to have failed to work...
>>
>> The RF is needed not to transmit but to drive a plasma, but for now I just want to get the tank coil running the right voltage level. But

>> with a B+ of about 1000V, I am only getting about 50 volts in the tank
>> coil.
>>
>> Circuit diagram is available here
>> http://geocities.com/peterpion/oscillator.jpg
>>
>> Parameters are:
>> Voltage = 1000V, full wave rectified and smoothed
>> Tank coil, 5mm copper tube, 7 turns, 5cm diameter, 7cm long, 1.3uH
>> Tank Cap, air dielectric, 5mm spacing, 13cm square, 31pF, 1.6mm thick
>> copper plates
>> Tank circuit is capable of taking at least 100A, very heavily soldered
>> Feedback coil, 5 turns 2mm copper wire, same diameter as tank coil, 5
>> cm length, placed on same former with gap of 3cm between tank and
>> feedback coil.
>> B+ choke 120 turns on 32mm diameter former
>> Bias, external 12V supply, fed via a diode to the ground side of the
>> grid coil, with a 33k resistor going to ground from the same point,
>> bypassed by a 1nF cap.
>>
>> Although I have it running, both increasing or decreasing the feedback
>> turns reduces the tank voltage.
>>
>> The tube spec is 350W anode dissipation, mu of 18-26, 2.5KV max, but
>> with heavy grid current requirements it seems, although I am not quite
>> clear on this.
>>
>> http://www.nd2x.net/gi6b.html
>>
>> Ive never built anything like this before, and I am lost as to where I
>> am going wrong. Is it that the tube has too little gain to drive
>> itself up to those power levels? I assumed that the low gain would
>> just mean that I had to couple more power back to the grid to make it
>> work. But if I increase the turns on the feedback winding, it actually
>> reduces the power - as does reducing the turns. 5 seems to be
>> optimum.
>>
>> I have taken care to keep all leads short - very short (1 to 3 inches
>> mostly). Rats nest construction. Have tried several types of caps, all
>> apparently rated for heavy RF use. Even rolled my own caps from copper
>> sheet and polyethylene which work the same as the other caps.
>>
>> On the scope, I can see that I never drive the grid into positive.
>> This seems wrong to me, but nothing I do makes it go positive. On the
>> plate, all I see on the scope is a tiny 50v drop (at 25MHz) when the
>> tube is supposedly hard on, ie the tube at the most on condition
>> through the cycle, still has about 950V across it. So I assume that I
>> am not turning the grid on enough.
>>
>> I am wondering if the problem is gain, IE is there too little gain to
>> make it work properly? Do I need to add another tube in a Darlington
>> type of arrangement to add enough gain to make it work better?
>>

>> I want this type of free running oscillator because it should stay in
>> tune as I add small amounts of reactive load (the plasma during warm
>> up etc) - or at least thats what I believe, not being an RF guru I am
>> not certain of this.
>>
>> If anyone can help me I would appreciate it very much. Having spent
>> the last 2 weeks trying, and read everything I can and searched the
>> web extensively, I am at a bit of a loss as to what to do next.
>>
>> I do apologize for probably stupid mistakes / questions (you cant do
>> that! you need a driver stage...? who knows!) but I am sure someone
>> must have done this before so I appeal to them to share their
>> experience!
>>
>> Thanks, Pete
>>
> With only 1KV on the anode you are unlikely to get more than 40W out.
> You need to be nearer to 2.5KV with a lot of cooling to get anywhere
> near 400W. Good layout is vital with this tube, they are good to 3GHz
> and will take off without some sort of stopper in the anode cct.
>
> Steve H

I was kinda wondering if maybe there wasn't some humongous GHz
oscillation that's taking up all the power, leaving none for HF. As you
point out the best way to check this would be with a spectrum analyzer,
although without it you could maybe slowly increase the plate voltage
and look for odd jumps in grid current or dives in plate current.

I looked at the data sheet and saw two grids -- is this a 'normal'
tetrode? It appeared that they were calling out negative voltages on
grid 2, which confuses me.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From 1190857322095889766
X-Google-Thread: fc2a5,9b4a7fbd8e84f7c1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!sn-xt-sjc-04!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for a specific circuits

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Date: Sat, 30 Jun 2007 15:31:29 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <138df7tgk81vu98@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <1183227394.647714.252010@k29g2000hsd.googlegroups.com>
In-Reply-To: <1183227394.647714.252010@k29g2000hsd.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 30
Xref: g2news1.google.com rec.radio.amateur.homebrew:13577
```

ve2ghi@gmail.com wrote:

<snip>

> During the last field day some members of our club ask if it is possible to connect to the main station two headsets and a speaker at the same time. Each headset should have his own control of volume. The volume of the speaker will be control by the vol of the radio.

Pads are commonly used to control volume at the jack in audio distribution arrangements; I also use headphones which contain a built-in pad for volume (a slider mounted in one of the earpieces). In the U.S., Radio Shack used to be a source however I cannot find any at their website.

Use a pad that maintains a nearly constant input impedance to audio across its adjustment range; the bridged-T pad has both constant input and output impedance. Make sure the total parallel impedance of the connected pads matches your audio distribution impedance, (say 600 ohms); use a transformer to match the audio output impedance of your radios' speaker jack (say 8 ohms).

Consider controlling the radio's speaker with a pad as well so that the line level remains unaffected by local volume settings.

A site describing pad construction and theory is at:

http://www.uneeda-audio.com/pads/

Regards,

Michael

```
From 1719050638848298808
X-Google-Thread: fc2a5,eceaf8204a0af0da,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!sn-xt-sjc-04!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
```

```
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: RF newbie has a ? RE: Armstrong oscillator in Q multiplier for receiver
Date: Sat, 30 Jun 2007 16:14:37 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <138dhu68k978ifa@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-Complaints-To: abuse@supernews.com
Lines: 31
Xref: g2news1.google.com rec.radio.amateur.homebrew:13578
```

I have built a homebrew MFJ-1020A (tunable active antenna) which works reasonable well, but am not satisfied. I am wanting to incorporate a Q multiplier in it for the purpose of narrowing bandwidth of the received signal, as well as increasing sensitivity so I can pick up weak stations better (like Voice of Korea, which for me is right on the edge of intelligability). The circuit I am working with uses an Armstrong Oscillator set to *almost* begin oscillation, with its inductor being a loop in parrallel with the loop antenna I have hooked up to the 1020A, as well another coil of wire which feeds the preamplifier in the 1020A. My loop antenna has four turns of about eight inches diameter, and I have enough wire for the preamp pickup to have 25 or 26 coils, but am not sure how to construct the single coil used for the Armstrong Oscillator. Should I have a single coil parrallel with all the rest (both tuner and preamp pickup) or should I wrap wire around the other two sets of coils, toroid-style, and make that the coil for the Armstrong Oscillator? And should I use very thick wire (like 10 guage multi-strand) or something thinner (like 24 guage single strand)?

I really have no idea which approach would be more effective for the Armstrong Oscillator, and would be grateful for any input the group has. Just for the record, the Q-multiplier I am trying to incorporate is taken from Joe Carr's Practical Antenna Handbook, and is also in his book called Antenna Toolkit.

Again, any help would be appreciated. I really am (obviously) an RF newbie.

Many thanks.

Dave

```
From 604898101447725810
X-Google-Thread: fc2a5,1836fa0dc1da2743
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out03b.usenetserver.com!
```

```
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc04.POSTED!f4af025b!
not-for-mail
From: "Norm Mann" <folder0735@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <4684e2cd$0$24717$4c368faf@roadrunner.com>
<S5mdnYoNNufIvhjbnZ2dnUVZ_sCinZ2d@web-ster.com>
<Q8bhi.469$eY.377@newssvr13.news.prodigy.net>
<4685b7b1$0$24759$4c368faf@roadrunner.com>
Subject: Re: Demodulator
Lines: 53
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <vSzhi.529$fw2.411@trnddc04>
Date: Sat, 30 Jun 2007 21:24:43 GMT
NNTP-Posting-Host: 71.102.219.45
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc04 1183238683 71.102.219.45 (Sat, 30 Jun 2007 17:24:43 EDT)
NNTP-Posting-Date: Sat, 30 Jun 2007 17:24:43 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13579


"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
news:4685b7b1$0$24759$4c368faf@roadrunner.com...
>
> "Joerg" <notthisjoergsch@removethispacbell.net> wrote in message
> news:Q8bhi.469$eY.377@newssvr13.news.prodigy.net...
>> Tim Wescott wrote:
>>
>>> Jimmie D wrote:
>>>
>>>> Revamping an old homebrew SW receiver I built about 30 years ago. Is
>>>> there an IC that will serve as an AM SSB FM detector. The existing
>>>> AM/SSB detector is on a board the size of a playing card.
>>>>
>>> You could probably twist some of the FM/IF detectors into doing that.
>>> Many of them have RSSI outputs that go as the log of the signal
>>> strength, I've seen literature that suggests you can block the DC from
>>> that and feed an exponential stage to get AM detection with built-in
>>> AGC.  For SSB, if you switched out the quadrature filter for FM
>>> detection and injected a BFO into the appropriate pin you could get SSB.
>>>
>>> But if you're playing around with a board the size of a playing card,
>>> why not build three optimized detectors, or get ambitious and slap down
>>> a DSP with appropriate ADC and DAC resources?
>>>
>>
>> But be careful with a DSP in a receiver. They require a clock and
>> generate all kinds of RF noises. Might have to be in a can.
>>
```

>> Of course, a DSP can do all sorts of other stuff like DRM. Although I
>> doubt DRM will ever make it into the market.
>>
> This old dog would have to learn some new tricks to implement DSP. I
> thought I remembered seeing a chip somewhere that did SSb AM and FM.
>
> Tim's right there is enough room for three descrete detectors. I can
> easily squeeze it all in if I redsign the board, Maybe a PLL circuit for
> FM unless someone can suggest something more modern. Probably a special
> purpose chip available that I am not familar with. I wanted to adFM so I
> could use the rx with VHF/UHF converter. IF is 455Khz.

Anybody remember back in the "old days" using a super-regen receiver?
Centering the signal in the passband gave AM, tuning off to the side one
could slope-detect for FM and if the regen control was set high enough to
make the detector break into oscillation, (in essence, inserting a BFO) one
could then detect CW/SB signals.

Just reminiscing,

-NM

From 6059951332507892635
X-Google-Thread: fc2a5,7d9a515583e49405,start
X-Google-Thread: f8fcc,7d9a515583e49405,start
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k29g2000hsd.googlegroups.com!not-for-mail
From: john@feith.com
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: IF Freq for SDR sampling
Date: Sat, 30 Jun 2007 16:57:19 -0700
Organization: http://groups.google.com
Lines: 85
Message-ID: <1183247839.107455.144150@k29g2000hsd.googlegroups.com>
NNTP-Posting-Host: 71.224.204.148
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1183247839 31200 127.0.0.1 (30 Jun 2007 23:57:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 30 Jun 2007 23:57:19 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k29g2000hsd.googlegroups.com; posting-host=71.224.204.148;
   posting-account=pWWnBg0AAABRS67ySxV9IjQTzaIXw7NT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13580 comp.dsp:49000

I'm trying to get an idea of some of the tradeoffs involved in determining where to perform the analog to digital conversion for a SDR design which uses 200 MHz as the first IF (pick due to SAW filter availability and it's high enough to simplify the front end filter bank ... the receiver is a homebrew type intended to cover .5 - 600 MHz with a maximum signal bandwidth of 200 kHz).

Some options:

1) Sample at the first IF using subsampling.

   Advantages: Eliminates the need for an additional LO and mixer.

   Disadvatages: Brad Evans points out in a comp.dsp article entitled "Undersampling (was: RF/IF digital receiver)" that using a high IF means that it will be more sensitive jitter in the ADC clock.

   The LTC2203 does 25 Msps with a 16 bit output and has a front end which can handle 380 MHz.

   The AD7763 does 40 Msps with a 24 bit output and includes a digital FIR. However, it's not clear to me what's the maximum frequency that it can handle. What's very interesting is that Analog Devices has an evaluation kit (EVAL-AD7763) available from Digikey for only 163 dollars and it includes (according to the literature) a BF537 EZ-KIT Lite. This appears to be a very inexpensive way to experiment with SDR.

2) Convert the first IF to a second IF of 21.4 MHz and then subsample.

   Advantages: Less sensitive to ADC clock jitter. Many different crystal filter are available for 21.4 MHz from places such as Network Sciences. This allows additional filtering to be done in the analog domain which should increase sensitivity.

   Disadvantages: Involves an additional LO and mixer which means more noise. ADSimPLL says the LO noise is -114 at 10 kHz. Mixer spurs at 7x8 and 8x9. I'm assuming that the spurs are not that interesting given I'm using a LT5512 which is a double balance mixer (i.e. even harmonics don't occur).

I imagine that the AD7763 will handle subsampling 21.4 MHz.

3) Convert the second IF to a third IF of 2.9 MHz and sample using a AD9874.

Advantages: The AD9874 also contains AGC and an I/Q demodulator in addition to a LO PLL and mixer. This means that the DSP doesn't have to handle these chores.

Disadvantages: Involves an additional LO and mixer which means more noise. ADSimPLL says the LO noise is -119 at 10 kHz. Mixer spurs at 6x7, 7x8, and 8x9. I'm assuming that the spurs are not that interesting given the AD9874 mixer is a double balance type (i.e. even harmonics don't occur).

BTW: I'm willing to sacrifice some performance if it means making the hardware easier to build (i.e. allows for more slop in the PC layout and assembly).

What are peoples thoughts, opinions, and experiences regarding these types of tradeoffs?

-- John
john@feith.com

From 7376505538004299829
X-Google-Thread: fc2a5,b4915103b99e02fa,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w5g2000hsg.googlegroups.com!not-for-mail
From: lapdog <jeabwjw@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: New Ham Radio Website
Date: Sat, 30 Jun 2007 20:20:03 -0700
Organization: http://groups.google.com
Lines: 11
Message-ID: <1183260003.165759.33460@w5g2000hsg.googlegroups.com>
NNTP-Posting-Host: 64.149.39.27
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1183260003 4892 127.0.0.1 (1 Jul 2007 03:20:03 GMT)
X-Complaints-To: groups-abuse@google.com

NNTP-Posting-Date: Sun, 1 Jul 2007 03:20:03 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; SU 2.009;
Embedded Web Browser from: http://bsalsa.com/; .NET CLR 1.1.4322; .NET CLR
2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: w5g2000hsg.googlegroups.com; posting-host=64.149.39.27;
   posting-account=uA5f5w0AAAC526zshhh0WGBkjDqMAzgw
Xref: g2news1.google.com rec.radio.amateur.homebrew:13581

I just built a new ham radio website that has ebay listings of ham
equipment, the latest ham radio news from all over the world, some
articles about the big three and more.
Come and visit and use the contact page to contact me and tell me what
you think, suggestions or comments would be appreciated.
http://www.amateurradios.info

Thanks,
Bill
W5GRX

From 1740229927586928792
X-Google-Thread: fc2a5,7d9a515583e49405
X-Google-Thread: f8fcc,7d9a515583e49405
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out04a.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!hwmnpeer01.phx!news.highwinds-
media.com!hw-filter.phx!newsfe15.phx.POSTED!53ab2750!not-for-mail
From: Eric Jacobsen <eric.jacobsen@ieee.org>
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: Re: IF Freq for SDR sampling
Reply-To: eric.jacobsen@delete.ieee.org
Message-ID: <65ae83ps3rph0s4o79219r5hhr5j0plhvt@4ax.com>
References: <1183247839.107455.144150@k29g2000hsd.googlegroups.com>
X-Newsreader: Forte Free Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 102
Date: Sat, 30 Jun 2007 21:12:07 -0700
NNTP-Posting-Host: 24.251.130.148
X-Complaints-To: admin@cox.net
X-Trace: newsfe15.phx 1183263127 24.251.130.148 (Sat, 30 Jun 2007 21:12:07 MST)
NNTP-Posting-Date: Sat, 30 Jun 2007 21:12:07 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13582 comp.dsp:49005

On Sat, 30 Jun 2007 16:57:19 -0700, john@feith.com wrote:

>I'm trying to get an idea of some of the tradeoffs involved in
>determining
>where to perform the analog to digital conversion for a SDR design
>which
>uses 200 MHz as the first IF (pick due to SAW filter availability and
>it's
>high enough to simplify the front end filter bank ... the receiver is
>a
>homebrew type intended to cover .5 - 600 MHz with a maximum signal
>bandwidth of 200 kHz).
>
>Some options:
>
>1) Sample at the first IF using subsampling.
>
>   Advantages: Eliminates the need for an additional LO and mixer.
>
>   Disadvatages: Brad Evans points out in a comp.dsp article entitled
>   "Undersampling (was: RF/IF digital receiver)" that using a high IF
>   means that it will be more sensitive jitter in the ADC clock.
>
>   The LTC2203 does 25 Msps with a 16 bit output and has a front end
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>
>   The AD7763 does 40 Msps with a 24 bit output and includes a digital
>FIR.
>   However, it's not clear to me what's the maximum frequency that it
>can handle.
>   What's very interesting is that Analog Devices has an evaluation
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>
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>   This allows additional filtering to be done in the analog domain
>which
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>noise.
>   ADSimPLL says the LO noise is -114 at 10 kHz. Mixer spurs at 7x8
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>BTW: I'm willing to sacrifice some performance if it means making the
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>assembly).
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>What are peoples thoughts, opinions, and experiences regarding these
>types of
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>-- John
>john@feith.com

Sounds to me like the IF plan is a little screwy already, since the
200MHz IF is in the tuning band of 0.5 to 600MHz.   Not sure how well
that's gonna work for ya.

A 200MHz IF is a little agressive, but it's workable if your ADC has a
SHA with good enough aperture time and you have a clean enough clock.

Personally, I'd pick a different first IF that solves the tuning and
the sampling problem, but it may be tricky with such a wide tuning
band.

Eric Jacobsen
Minister of Algorithms
Abineau Communications
http://www.ericjacobsen.org

From 4506877982529209190
X-Google-Thread: fc2a5,eceaf8204a0af0da
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news1.google.com!news3.google.com!out03b.usenetserver.com!news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!novia!border2.nntp.dca.giganews.com!nntp.giganews.com!sn-xt-sjc-04!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RF newbie has a ? RE: Armstrong oscillator in Q multiplier for receiver
Date: Sun, 1 Jul 2007 00:21:15 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <138eeen6u365g68@corp.supernews.com>
References: <138dhu68k978ifa@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 68
Xref: g2news1.google.com rec.radio.amateur.homebrew:13583

"Dave" <db5151@hotmail.com> wrote in message news:138dhu68k978ifa@corp.supernews.com...

>I have built a homebrew MFJ-1020A (tunable active antenna) which works reasonable well, but am not satisfied. I am wanting to incorporate a Q multiplier in it for the purpose of narrowing bandwidth of the received signal, as well as increasing sensitivity so I can pick up weak stations better (like Voice of Korea, which for me is right on the edge of intelligability). The circuit I am working with uses an Armstrong Oscillator set to *almost* begin oscillation, with its inductor being a loop in parrallel with the loop antenna I have hooked up to the 1020A, as well another coil of wire which feeds the preamplifier in the 1020A. My loop antenna has four turns of about eight inches diameter, and I have enough wire for the preamp pickup to have 25 or 26 coils, but am not sure how to construct the single coil used for the Armstrong Oscillator. Should I have a single coil parrallel with all the rest (both tuner and preamp pickup) or should I wrap wire around the other two sets of coils, toroid-style, and make that the coil for the Armstrong Oscillator? And should I use very thick wire (like 10 guage multi-strand) or something thinner (like 24 guage single strand)?
>
> I really have no idea which approach would be more effective for the Armstrong Oscillator, and would be grateful for any input the group has. Just for the record, the Q-multiplier I am trying to incorporate is taken from Joe Carr's Practical Antenna Handbook, and is also in his book called Antenna Toolkit.
>
> Again, any help would be appreciated. I really am (obviously) an RF newbie.
>
> Many thanks.
>

> Dave
>
>

Update: I tried the 26 turns of #10 wire for the input to the preamp, and a tuning loop of four turns of coax with the shield and center conductor connected, as per Joe Carr's shielded loop example, and the whole thing held together by winding #24 wire around the loop toroid style, with that as the Armstrong feedback loop. Waste of time. Couldn't tune the antenna to pick up anything. Put it on the test bench and determined that two turns of shielded coax was needed, in a smaller diameter loop. Then used one turn of #10 wire for the feedback loop and another for the pickup for the input to the preamp. It does work, but nothing like I expected or was hoping for. I can tune the antenna to 10 MHz with my 10-400 pF tuning cap, but nothing very far to either side of that. And the Armstrong oscillator does it's job, but just barely. Am thinking I need more amplification for the Q-multiplier circuit. Currently using an NTE-451, with a gain of something like 100 or 120 if I remember correctly, and am going to try an NTE-199, with a gain of 400. May even put two of those in, in a Darlington configuration. I don't know. Making it up as I go along.

Also realized that I no longer actually have an MFJ-1020A, as I have replaced the tuning circuit from that schematic with a variable capacitor to tune the antenna and the Armstrong oscillator. The only thing left from the 1020A is the amplification portion of that circuit. Now trying to tune everything by tuning the antenna.

Would really appreciate any input anyone has, but will understand if all of this is too vague. Hope no one minds my posting. It helps me think of what I want to try next.

Thanks for reading. Sorry if I'm just wasting bandwidth.

Dave

From -6703515277657868576
X-Google-Thread: fc2a5,eceaf8204a0af0da
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out01a.usenetserver.com!news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!in03.usenetserver.com!news.usenetserver.com!hwmnpeer01.phx!news.highwinds-media.com!newsfeed.news2me.com!sn-xt-sjc-04!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RF newbie has a ? RE: Armstrong oscillator in Q multiplier for receiver
Date: Sun, 1 Jul 2007 00:27:17 -0500
Organization: Posted via Supernews, http://www.supernews.com

Message-ID: <138eeq0c3il74a1@corp.supernews.com>
References: <138dhu68k978ifa@corp.supernews.com>
<138eeen6u365g68@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 86
Xref: g2news1.google.com rec.radio.amateur.homebrew:13584

"Dave" <db5151@hotmail.com> wrote in message
news:138eeen6u365g68@corp.supernews.com...
>
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> news:138dhu68k978ifa@corp.supernews.com...
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>>
>>
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>
> Thanks for reading. Sorry if I'm just wasting bandwidth.
>
> Dave

Forgot to mention, I am using a 1K linear taper switched potentiometer to control the feedback in the Armstrong oscillator. Suspect I need a 10K pot. As soon as I switch it on, it peaks out, and then drops off as I turn it up. On the other hand, it does work, even if not to the level I had hoped for. Wanted to include this for those who wondered about the construction of the whole antenna/feedback loop/input to the preamp loop package and how feedback was controlled.

Again, sorry if I am just wasting bandwidth. Appreciate your patience.

Dave

From -7786815697015015316
X-Google-Thread: fc2a5,7d9a515583e49405
X-Google-Thread: f8fcc,7d9a515583e49405
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n60g2000hse.googlegroups.com!not-for-

mail
From: john@feith.com
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: Re: IF Freq for SDR sampling
Date: Sun, 01 Jul 2007 01:31:13 -0700
Organization: http://groups.google.com
Lines: 31
Message-ID: <1183278673.194335.68590@n60g2000hse.googlegroups.com>
References: <1183247839.107455.144150@k29g2000hsd.googlegroups.com>
   <65ae83ps3rph0s4o79219r5hhr5j0plhvt@4ax.com>
NNTP-Posting-Host: 71.224.204.148
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1183278673 24336 127.0.0.1 (1 Jul 2007 08:31:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 1 Jul 2007 08:31:13 +0000 (UTC)
In-Reply-To: <65ae83ps3rph0s4o79219r5hhr5j0plhvt@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n60g2000hse.googlegroups.com; posting-host=71.224.204.148;
   posting-account=pWWnBg0AAABRS67ySxV9IjQTzaIXw7NT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13585 comp.dsp:49006

On Jul 1, 12:12 am, Eric Jacobsen <eric.jacob...@ieee.org> wrote:

> Sounds to me like the IF plan is a little screwy already, since the
> 200MHz IF is in the tuning band of 0.5 to 600MHz.   Not sure how well
> that's gonna work for ya.

Okay ... I need to pay attention to spurs from the first IF mixer when working out a frequency plan.

For the sake of the original question let's assume that the RF range has been changed to one which is appropriate for a 200 MHz IF.
The question still being regarding the tradeoffs of where to digitize the signal.

Followup question being ... any good guidelines for picking the first IF frequency other than:

1) High enough to simplify the input filters.

2) Something that is easy to build / buy a good filter for use after the mixer.

3) Something that results in a minimum amount of spurs from the mixer.

4) Something that isn't so high as to complicate construction more than
      necessary.

-- John
john@feith.com

```
From -9164983587678085756
X-Google-Thread: fc2a5,7d9a515583e49405
X-Google-Thread: f8fcc,7d9a515583e49405
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o11g2000prd.googlegroups.com!not-for-
mail
From:  MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: Re: IF Freq for SDR sampling
Date: Sun, 01 Jul 2007 03:44:27 -0700
Organization: http://groups.google.com
Lines: 120
Message-ID: <1183286667.167412.245330@o11g2000prd.googlegroups.com>
References: <1183247839.107455.144150@k29g2000hsd.googlegroups.com>
NNTP-Posting-Host: 222.155.171.7
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1183286667 13764 127.0.0.1 (1 Jul 2007 10:44:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 1 Jul 2007 10:44:27 +0000 (UTC)
In-Reply-To: <1183247839.107455.144150@k29g2000hsd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o11g2000prd.googlegroups.com; posting-host=222.155.171.7;
   posting-account=0vCTfAwAAACvA6pNXnot7Fa7QcUC1A3e
Xref: g2news1.google.com rec.radio.amateur.homebrew:13586 comp.dsp:49007
```

Hi John,

The BF537 EZ-KIT Lite + AD7763 for less than US$180 looks like a brilliant deal to me, but won't you need I as well as Q channel ADCs ?

I am not sure how much enthusiasm I can muster for a BF537 when only packaging available is 192 or 208 BGA, it sounds like a project that is always destined to be a prototype board. It does look like a very capable DSP however.

If you want to experiment with SDR, does it get any simpler than SoftRock 40 ? I guess I have a natural inclination to use a platform where there is an established user base - hence plenty of help and support.

My other inclination is also to try and keep the sample rate as low as possible, so there are plenty of un-optimized-code CPU cycles available to allow swift algorithm development rather than scrambling around for every last CPU cycle at the start of a project.

Having said that all out loud, my inclination is to go for a decent
DDS LO, for front end agility, sampling down to a high sample rate
(192kHz) stereo (I + Q) audio ADC and to take it from there in DSP.

With that all under my belt, then time to look at higher performance
solutions, once the question is better understood.

Regards,

Mark

On Jul 1, 11:57 am, j...@feith.com wrote:
> I'm trying to get an idea of some of the tradeoffs involved in
> determining
> where to perform the analog to digital conversion for a SDR design
> which
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>   ADSimPLL says the LO noise is -114 at 10 kHz. Mixer spurs at 7x8
> and 8x9.
>   I'm assuming that the spurs are not that interesting given I'm
> using a LT5512
>   which is a double balance mixer (i.e. even harmonics don't occur).
>
>   I imagine that the AD7763 will handle subsampling 21.4 MHz.
>
> 3) Convert the second IF to a third IF of 2.9 MHz and sample using a
> AD9874.
>
>   Advantages: The AD9874 also contains AGC and an I/Q demodulator in
> addition
>   to a LO PLL and mixer. This means that the DSP doesn't have to
> handle these
>   chores.
>
>   Disadvantages: Involves an additional LO and mixer which means more
> noise.
>   ADSimPLL says the LO noise is -119 at 10 kHz. Mixer spurs at 6x7,
> 7x8, and
>   8x9. I'm assuming that the spurs are not that interesting given
> the AD9874
>   mixer is a double balance type (i.e. even harmonics don't occur).
>
> BTW: I'm willing to sacrifice some performance if it means making the
> hardware
> easier to build (i.e. allows for more slop in the PC layout and
> assembly).
>
> What are peoples thoughts, opinions, and experiences regarding these
> types of
> tradeoffs?
>
> -- John
> j...@feith.com

From 8770523260664280701
X-Google-Thread: fc2a5,2737f4c19e7531ee

X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out01a.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!spln!
extra.newsguy.com!newsp.newsguy.com!enews4
From: DeserTBoB <desertb@rglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Pioneer SX-2000 AM/FM tube receiver-MINT-best offer-needs nothing !
Date: Sun, 01 Jul 2007 05:33:17 -0700
Organization: Add "ob1" to the name...NO SPAM!
Lines: 39
Message-ID: <gn7f83t7l6bnikmioiuouqdgolg5u23uvu@4ax.com>
References: <1183074555.755564.114950@q75g2000hsh.googlegroups.com>
Reply-To: desertb@rglobal.net
NNTP-Posting-Host:
p74d1bfbfff0000001c332de8c4b78ab0477be44f7a597273c11947695d0804f6a22afa6d0e5baf41.
newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Newsreader: Forte Agent 3.1/32.783
Xref: g2news1.google.com rec.radio.amateur.homebrew:13589

On Thu, 28 Jun 2007 16:49:15 -0700,
www.8trackaudio.com@8trackaudio.com wrote:

>http://cls.audiogon<snip>

This spammer, Charles M. Nudo, Jr., of Drums, PA, says rules don't apply to him and spams Usenet unrepentantly for his own eBay and Audiogon trash and for businesses he cons into paying him to spam their wares. Since having all his Google Groups sock puppet accounts shut down for spamming, he's started another one using his own "rinky-dink" Yahoo domain, 8trackaudio.com.   All his spam posts originate from frontier.net (formerly epix.net,) his home ISP, and since he's dumb enough to use Google Groups, his IP is in each header.

Such eBay auction spam is a violation of both Google Groups' and Frontier.net's Terms of Service. Per his ISP's Terms of Use, it's also a violation to violate the rules of other sites, and the spammer can be assessed a minimum $200 fine for such a violation. See applicable rule statements at:

http://www.frontieronline.com/residential_aup

and...

http://groups.google.com/googlegroups/terms_of_service3.html

Fight back against Usenet spam by sending his spam message, with headers, to:

groups-abuse@google.com

abuse@frontiernet.net
abuse@audiogon.com

You can also reach Frontier's abuse desk on:

866-474-7662

Be sure to include his IP in your complaint to Frontier, which is
209.74.29.60 for this spam load.

```
From 7895811515969747537
X-Google-Thread: fc2a5,7d9a515583e49405
X-Google-Thread: f8fcc,7d9a515583e49405
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 01 Jul 2007 12:22:07 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: IF Freq for SDR sampling
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
References: <1183247839.107455.144150@k29g2000hsd.googlegroups.com>
User-Agent: pan 0.120 (Plate of Shrimp)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <bMednXFOVuYifxrbnZ2dnUVZ_ufinZ2d@web-ster.com>
Date: Sun, 01 Jul 2007 12:22:07 -0500
Lines: 71
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-
PqhZJDpaJ47XnrWsCkfe0QeaEGHeTX+XzkzTrARVzOAxWHL9Dn36m5mOvx3s18cLYSf0WlkI+gZvHQO!
Cq6+rHFPdeSlF7r41NsJBfR4jQ1JjSOF6gftimpdOM6h7Uc249E6sii0appycRcHE9kGiIEFztk7!
yQWfZo+CxfP7odKu
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com rec.radio.amateur.homebrew:13590 comp.dsp:49014
```

On Sat, 30 Jun 2007 16:57:19 -0700, john wrote:

> I'm trying to get an idea of some of the tradeoffs involved in
> determining
> where to perform the analog to digital conversion for a SDR design
> which
> uses 200 MHz as the first IF (pick due to SAW filter availability and
> it's

> high enough to simplify the front end filter bank ... the receiver is
> a
> homebrew type intended to cover .5 - 600 MHz with a maximum signal
> bandwidth of 200 kHz).
>
> Some options:
>
> 1) Sample at the first IF using subsampling.
>
>   Advantages: Eliminates the need for an additional LO and mixer.
>
>   Disadvatages: Brad Evans points out in a comp.dsp article entitled
>   "Undersampling (was: RF/IF digital receiver)" that using a high IF
>   means that it will be more sensitive jitter in the ADC clock.
>
>   The LTC2203 does 25 Msps with a 16 bit output and has a front end
> which
>   can handle 380 MHz.
>
>   The AD7763 does 40 Msps with a 24 bit output and includes a digital
> FIR.
>   However, it's not clear to me what's the maximum frequency that it
> can handle.
>   What's very interesting is that Analog Devices has an evaluation
> kit
>   (EVAL-AD7763) available from Digikey for only 163 dollars and it
>   includes (according to the literature) a BF537 EZ-KIT Lite. This
> appears
>   to be a very inexpensive way to experiment with SDR.
>
> 2) Convert the first IF to a second IF of 21.4 MHz and then subsample.
>
 -- snip --
>
> 3) Convert the second IF to a third IF of 2.9 MHz and sample using a
> AD9874.
>
 -- snip --

I think you may be overdoing your concern on the sampling clock. The jitter that matters is the amount of time jitter on the clock. If you can generate a tone that's pure enough to down-convert the 1st IF, then you can generate a clock that's pure enough to down-sample. In either case, if you're crystal controlled you'll probably be much more stable than the LO with which you're doing your first conversion.

At this point you need to ask not can you _generate_ a time base that's low enough jitter to do good sampling, but can you _preserve_ the clean signal through your entire sampling path, starting with whatever logic generates the clock, all the way through to the actual sampling. If the sampling takes place inside the ADC then you need to hope (or verify from the data sheet) that the ADC isn't introducing much jitter. If you're really concerned about this then you could make your own sampler with appropriate components to insure the jitter is within your control.

--
Tim Wescott
Control systems and communications consulting
http://www.wescottdesign.com

Need to learn how to apply control theory in your embedded system?
"Applied Control Theory for Embedded Systems" by Tim Wescott
Elsevier/Newnes, http://www.wescottdesign.com/actfes/actfes.html

```
From -8346745778505686378
X-Google-Thread: fc2a5,7d9a515583e49405
X-Google-Thread: f8fcc,7d9a515583e49405
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr13.news.prodigy.net.POSTED!8c3b9efd!not-for-mail
From: Vladimir Vassilevsky <antispam_bogus@hotmail.com>
Organization: AbVolt, Ltd.
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en,ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: Re: IF Freq for SDR sampling
References: <1183247839.107455.144150@k29g2000hsd.googlegroups.com>
In-Reply-To: <1183247839.107455.144150@k29g2000hsd.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 63
Message-ID: <auRhi.849$eY.536@newssvr13.news.prodigy.net>
NNTP-Posting-Host: 70.233.140.230
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr13.news.prodigy.net 1183310854 ST000 70.233.140.230 (Sun, 01 Jul
2007 13:27:34 EDT)
NNTP-Posting-Date: Sun, 01 Jul 2007 13:27:34 EDT
X-UserInfo1:
O@YWBU[DYBSSP_@YMZJ\_Q\@TJ_ZTB\MV@BJ]Q]KEYUNDQUCCNSUAACY@L[ZX__HGFD]JBJNSFXTOOGA_V
WY^_HG@FW_HUTHOH]TBPGCO\P^PLP^@[GLHUK@WLECKFVL^TYG[@RMWQXIWM[SDDYWNLG_G[_BWUCHFY_Y
@AS@Q[B\APPF@DCZM_PG_VSCPQZM
Date: Sun, 01 Jul 2007 17:27:34 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13591 comp.dsp:49015
```

john@feith.com wrote:

> I'm trying to get an idea of some of the tradeoffs involved in
> determining

> where to perform the analog to digital conversion for a SDR design
> which
> uses 200 MHz as the first IF (pick due to SAW filter availability and
> it's
> high enough to simplify the front end filter bank ... the receiver is
> a
> homebrew type intended to cover .5 - 600 MHz with a maximum signal
> bandwidth of 200 kHz).

Each frequency conversion inevitably reduces the IP3 and the KP of the receiver. The other problem with the multiple conversions is the feedthrough of the harmonics and intermods of the heterodynes to the input of the receiver; this creates the "deaf" points in the frequency range. So, the intention is avoiding multiple conversions unless it is really necessary.

The multiple conversion could be necessary if the high attenuation of the adjacent channel is required and if the desired channel bandwidth is too narrow. It is difficult to make a good narrowband filter for the high IF.

> Some options:
> 1) Sample at the first IF using subsampling.
>
> Advantages: Eliminates the need for an additional LO and mixer.
>
> Disadvatages: Brad Evans points out in a comp.dsp article entitled
> "Undersampling (was: RF/IF digital receiver)" that using a high IF
> means that it will be more sensitive jitter in the ADC clock.

The clock jitter can be taken care off. The suppression of the aliases is determined by the 1st IF filter. You will need a good filter, especially if subsampling.

[...]

> What are peoples thoughts, opinions, and experiences regarding these
> types of
> tradeoffs?

It depends.

What are the final parameters of the receiver that you are planning to achieve?

What benefits do you expect from doing the processing in the software?

How much of time and money do you have?

Vladimir Vassilevsky

DSP and Mixed Signal Design Consultant

http://www.abvolt.com

From 471242227132100977
X-Google-Thread: fc2a5,7d9a515583e49405
X-Google-Thread: f8fcc,7d9a515583e49405
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!57g2000hsv.googlegroups.com!not-for-mail
From: john@feith.com
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: Re: IF Freq for SDR sampling
Date: Sun, 01 Jul 2007 11:18:12 -0700
Organization: http://groups.google.com
Lines: 15
Message-ID: <1183313892.443883.167890@57g2000hsv.googlegroups.com>
References: <1183247839.107455.144150@k29g2000hsd.googlegroups.com>
   <1183286667.167412.245330@o11g2000prd.googlegroups.com>
NNTP-Posting-Host: 71.224.204.148
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1183313892 25363 127.0.0.1 (1 Jul 2007 18:18:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 1 Jul 2007 18:18:12 +0000 (UTC)
In-Reply-To: <1183286667.167412.245330@o11g2000prd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 57g2000hsv.googlegroups.com; posting-host=71.224.204.148;
   posting-account=pWWnBg0AAABRS67ySxV9IjQTzaIXw7NT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13592 comp.dsp:49016

On Jul 1, 6:44 am, MarkAren <markare...@yahoo.com> wrote:
> The BF537 EZ-KIT Lite + AD7763 for less than US$180 looks like a
> brilliant deal to me, but won't you need I as well as Q channel ADCs ?

The intent would be to implement a digital downconverter in the DSP.
That of course begs the question of how much horsepower is necessary
to implement a DDC? I know people are doing it using FPGA, however
I haven't seen anyone doing it using a DSP.

Another option would be to insert a AD6620 which is a digital down
converter.

-- John
john@feith.com

From 4081861066689583OO
X-Google-Thread: fc2a5,7d9a515583e49405
X-Google-Thread: f8fcc,7d9a515583e49405
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!57g2000hsv.googlegroups.com!not-for-mail
From: john@feith.com
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: Re: IF Freq for SDR sampling
Date: Sun, 01 Jul 2007 11:30:13 -0700
Organization: http://groups.google.com
Lines: 28
Message-ID: <1183314613.991452.200890@57g2000hsv.googlegroups.com>
References: <1183247839.107455.144150@k29g2000hsd.googlegroups.com>
   <auRhi.849$eY.536@newssvr13.news.prodigy.net>
NNTP-Posting-Host: 71.224.204.148
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1183314614 27434 127.0.0.1 (1 Jul 2007 18:30:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 1 Jul 2007 18:30:14 +0000 (UTC)
In-Reply-To: <auRhi.849$eY.536@newssvr13.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 57g2000hsv.googlegroups.com; posting-host=71.224.204.148;
   posting-account=pWWnBg0AAABRS67ySxV9IjQTzaIXw7NT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13593 comp.dsp:49017

On Jul 1, 1:27 pm, Vladimir Vassilevsky <antispam_bo...@hotmail.com>
wrote:
> What are the final parameters of the receiver that you are planning to
> achieve?

Defined as the best as I can implement without having a mental
breakdown,
going broke, getting into trouble with the wife, or taking forever.

I realize that in the real world the requirements should be a little
more
concrete.

> What benefits do you expect from doing the processing in the software?

Flexibility and learning.

> How much of time and money do you have?

A lot of time ... one advantage of this being a hobby project is no
deadline.

Money is flexible, not unlimited (I do have to answer to the wife),
say
$ 1000 US dollars (more if spread over a longer period of time :-).

-- John
john@feith.com.

```
From 7064619649533394387
X-Google-Thread: fc2a5,7d9a515583e49405
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q69g2000hsb.googlegroups.com!not-for-
mail
From:  john@feith.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: IF Freq for SDR sampling
Date: Sun, 01 Jul 2007 11:48:15 -0700
Organization: http://groups.google.com
Lines: 22
Message-ID: <1183315695.531238.87080@q69g2000hsb.googlegroups.com>
References: <1183247839.107455.144150@k29g2000hsd.googlegroups.com>
   <65ae83ps3rph0s4o79219r5hhr5j0plhvt@4ax.com>
   <1183278673.194335.68590@n60g2000hse.googlegroups.com>
   <5b5f835ks6jb1dudkrbhfk86ghqhkn3mdu@4ax.com>
NNTP-Posting-Host: 71.224.204.148
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1183315695 31307 127.0.0.1 (1 Jul 2007 18:48:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 1 Jul 2007 18:48:15 +0000 (UTC)
In-Reply-To: <5b5f835ks6jb1dudkrbhfk86ghqhkn3mdu@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q69g2000hsb.googlegroups.com; posting-host=71.224.204.148;
   posting-account=pWWnBg0AAABRS67ySxV9IjQTzaIXw7NT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13594
```

On Jul 1, 8:19 am, no.s...@no.uce.bellatlantic.net wrote:
> Noise figure and spurious responses are really determined by RX input
> filters and the first stages of RF amplification. generally at VHF
> and above you do not get an acceptable NF without an RF amp
> for communications uses.

I was considering a Hittite HMC580ST89 InGaP HBT Gain Block
which has a NF of 2.8, covers DC - 1 GHz, and is easy to use
(i.e. can operate directly from +5V).

> The mixer will produce spurs from several causes..
> Dirty LO source, for that range I assume you using a carefully

> designed PLL as DDS has many discrete spurs.

Currently the design calls for using a AD9952 DDS followed by
a 10.7 MHz BW=300 kHz crystal filter to provide the reference
for a ADF4002 PLL controlling a UMC VCO. ADIsimPLL claims
phase noise of -107 at 10 kHz.

-- John
john@feith.com

From 7581018193616312222
X-Google-Thread: fc2a5,7d9a515583e49405
X-Google-Thread: f8fcc,7d9a515583e49405
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.phx!newsfe14.phx.POSTED!53ab2750!not-for-mail
From: Eric Jacobsen <eric.jacobsen@ieee.org>
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: Re: IF Freq for SDR sampling
Reply-To: eric.jacobsen@delete.ieee.org
Message-ID: <bh0g83l0m99s23q9cuqhndbu0unhqn5tm0@4ax.com>
References: <1183247839.107455.144150@k29g2000hsd.googlegroups.com>
<1183286667.167412.245330@o11g2000prd.googlegroups.com>
<1183313892.443883.167890@57g2000hsv.googlegroups.com>
X-Newsreader: Forte Free Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 24
Date: Sun, 01 Jul 2007 12:37:15 -0700
NNTP-Posting-Host: 24.251.130.148
X-Complaints-To: admin@cox.net
X-Trace: newsfe14.phx 1183318633 24.251.130.148 (Sun, 01 Jul 2007 12:37:13 MST)
NNTP-Posting-Date: Sun, 01 Jul 2007 12:37:13 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13595 comp.dsp:49020

On Sun, 01 Jul 2007 11:18:12 -0700, john@feith.com wrote:

>On Jul 1, 6:44 am, MarkAren <markare...@yahoo.com> wrote:
>> The BF537 EZ-KIT Lite + AD7763 for less than US$180 looks like a
>> brilliant deal to me, but won't you need I as well as Q channel ADCs ?
>
>The intent would be to implement a digital downconverter in the DSP.
>That of course begs the question of how much horsepower is necessary
>to implement a DDC? I know people are doing it using FPGA, however
>I haven't seen anyone doing it using a DSP.
>

>Another option would be to insert a AD6620 which is a digital down
>converter.
>
>-- John
>john@feith.com

If the sample rate is low enough there's no reason the DDC can't be
done in software. Since your signal is narrow that might be possible
if you can sort out the IF issues and the IF filter bw.
Eric Jacobsen
Minister of Algorithms
Abineau Communications
http://www.ericjacobsen.org

```
From 7278438005284274323
X-Google-Thread: fc2a5,7d9a515583e49405
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k29g2000hsd.googlegroups.com!not-for-
mail
From:  john@feith.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: IF Freq for SDR sampling
Date: Mon, 02 Jul 2007 18:27:08 -0700
Organization: http://groups.google.com
Lines: 26
Message-ID: <1183426028.233313.241380@k29g2000hsd.googlegroups.com>
References: <1183247839.107455.144150@k29g2000hsd.googlegroups.com>
   <65ae83ps3rph0s4o79219r5hhr5j0plhvt@4ax.com>
   <1183278673.194335.68590@n60g2000hse.googlegroups.com>
   <5b5f835ks6jb1dudkrbhfk86ghqhkn3mdu@4ax.com>
   <1183315695.531238.87080@q69g2000hsb.googlegroups.com>
   <1rph839p75lraosohpda3mq1uilmc6alp1@4ax.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1183426028 29121 127.0.0.1 (3 Jul 2007 01:27:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 3 Jul 2007 01:27:08 +0000 (UTC)
In-Reply-To: <1rph839p75lraosohpda3mq1uilmc6alp1@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; SunOS i86pc; en-US; rv:1.7) Gecko/
20051027,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k29g2000hsd.googlegroups.com; posting-host=192.251.93.16;
   posting-account=pWWnBg0AAABRS67ySxV9IjQTzaIXw7NT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13597
```

On Jul 2, 8:05 am, no.s...@no.uce.bellatlantic.net wrote:
> On Sun, 01 Jul 2007 11:48:15 -0700, j...@feith.com wrote:
> >I was considering a Hittite HMC580ST89 InGaP HBT Gain Block
> >which has a NF of 2.8, covers DC - 1 GHz, and is easy to use

> >(i.e. can operate directly from +5V).
>
> It's a nice package, I've used it. But, what are you putting before
> that to prevent a Pager at 153mhz from completely overloading it?

A SAW filter.

> >Currently the design calls for using a AD9952 DDS followed by
> >a 10.7 MHz BW=300 kHz crystal filter to provide the reference
> >for a ADF4002 PLL controlling a UMC VCO. ADIsimPLL claims
> >phase noise of -107 at 10 kHz.
>
> The LO sounds ok but the 300khz filter?? Thats FM broadcast
> wide.   The wider the IF the worse the system NF will be

The 300kHz filter is for the DDS output which is the reference for
the PLL so that I can vary the reference frequency enough to generate
a precise LO. It is not the filter for the IF.

-- John
john@feith.com

From -4899897870503494836
X-Google-Thread: fc2a5,24355473894c84d1,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!g4g2000hsf.googlegroups.com!not-for-mail
From: john@feith.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Mixing high side versus low side and (f1 - f2) versus (f1 + f2)
Date: Mon, 02 Jul 2007 18:30:53 -0700
Organization: http://groups.google.com
Lines: 18
Message-ID: <1183426253.919571.158310@g4g2000hsf.googlegroups.com>
NNTP-Posting-Host: 192.251.93.16
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1183426254 29851 127.0.0.1 (3 Jul 2007 01:30:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 3 Jul 2007 01:30:54 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; SunOS i86pc; en-US; rv:1.7) Gecko/20051027,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=192.251.93.16;
   posting-account=pWWnBg0AAABRS67ySxV9IjQTzaIXw7NT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13598

I've heard that high side mixing is preferred to low side
mixing because the LO harmonics will be higher and less

likely to cause problems.

It also seems to me that (f1 + f2) is typically discarded and what's used is just the (f1 - f2).

Any truth to either of these impressions? If so, what's the rational?

Depending on the availability of off the shelf VCO parts one might what to use (f1 + f2) or low side mixing and I was just curious what (if any) additional problems I should look out for.

-- John
john@feith.com

From -6598799649196808746
X-Google-Thread: fc2a5,7d9a515583e49405
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-mail
From: john@feith.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: IF Freq for SDR sampling
Date: Mon, 02 Jul 2007 18:41:20 -0700
Organization: http://groups.google.com
Lines: 9
Message-ID: <1183426880.860996.263140@q75g2000hsh.googlegroups.com>
References: <1183247839.107455.144150@k29g2000hsd.googlegroups.com>
   <65ae83ps3rph0s4o79219r5hhr5j0plhvt@4ax.com>
   <1183278673.194335.68590@n60g2000hse.googlegroups.com>
   <5b5f835ks6jb1dudkrbhfk86ghqhkn3mdu@4ax.com>
   <1183315695.531238.87080@q69g2000hsb.googlegroups.com>
   <1rph839p75lraosohpda3mq1uilmc6alp1@4ax.com>
   <1183426028.233313.241380@k29g2000hsd.googlegroups.com>
NNTP-Posting-Host: 192.251.93.16
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1183426881 31495 127.0.0.1 (3 Jul 2007 01:41:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 3 Jul 2007 01:41:21 +0000 (UTC)
In-Reply-To: <1183426028.233313.241380@k29g2000hsd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; SunOS i86pc; en-US; rv:1.7) Gecko/20051027,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q75g2000hsh.googlegroups.com; posting-host=192.251.93.16;
   posting-account=pWWnBg0AAABRS67ySxV9IjQTzaIXw7NT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13599

On Jul 2, 9:27 pm, j...@feith.com wrote:
> A SAW filter.

Sorry I misspoke ... the SAW filter is between the LT5512 mixer and
the HMC580ST89 being used as the IF gain block.

I'm looking to use a selectable LC filter bank between the antenna
and the HMC580ST89 being used as the RF gain block.

```
From 752553310101109979
X-Google-Thread: fc2a5,7d9a515583e49405
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g4g2000hsf.googlegroups.com!not-for-
mail
From:  john@feith.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: IF Freq for SDR sampling
Date: Mon, 02 Jul 2007 21:30:36 -0700
Organization: http://groups.google.com
Lines: 28
Message-ID: <1183437036.549394.67950@g4g2000hsf.googlegroups.com>
References: <1183247839.107455.144150@k29g2000hsd.googlegroups.com>
   <65ae83ps3rph0s4o79219r5hhr5j0plhvt@4ax.com>
   <1183278673.194335.68590@n60g2000hse.googlegroups.com>
   <5b5f835ks6jb1dudkrbhfk86ghqhkn3mdu@4ax.com>
   <1183315695.531238.87080@q69g2000hsb.googlegroups.com>
   <1rph839p75lraosohpda3mq1uilmc6alp1@4ax.com>
   <1183426028.233313.241380@k29g2000hsd.googlegroups.com>
   <1183426880.860996.263140@q75g2000hsh.googlegroups.com>
   <o3dj83tgr84ceqlvm9cahg7icset37qdo6@4ax.com>
NNTP-Posting-Host: 71.224.204.148
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1183437036 27951 127.0.0.1 (3 Jul 2007 04:30:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 3 Jul 2007 04:30:36 +0000 (UTC)
In-Reply-To: <o3dj83tgr84ceqlvm9cahg7icset37qdo6@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=71.224.204.148;
   posting-account=pWWnBg0AAABRS67ySxV9IjQTzaIXw7NT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13603
```

On Jul 2, 10:35 pm, no.s...@no.uce.bellatlantic.net wrote:
> That makes more sense. The selectable LC filters octave or fraction
> of an octave?

I was looking at fraction of an octave, however I have yet to decide anything more specific. Actually I started by playing with Ansoft Designer to design the filters, keep being unhappy how they turned out, and as a result keep having to increase the first IF to make it easier to have good image rejection. I had naively started with 10.7 MHz as the first IF ... I may not have a lot accomplished, however I'm certainly learning a thing or two. :-)

> Generally it's antenna, a low loss selectivity, RFamp, Image stripping filter then mixer.

What's the downside of doing the selectivity and image stripping as one filter prior to the RFamp?

> I consider a RF amp at VHF/UHF of more than 1.5DB NF to be noisy.
> This is because current technology for low noise amps are well under 1 DB to the 500mhz region maybe higher.

Care to mention a couple of model numbers?

-- John
john@feith.com

From 1560798519053354762
X-Google-Thread: fc2a5,38e1af9b35388722,start
X-Google-Thread: 1109af,38e1af9b35388722,start
X-Google-Attributes: gidfc2a5,gid1109af,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feed.cgocable.net!read1.cgocable.net.POSTED!53ab2750!not-for-mail
From: "Norm VE3CZI" <ve3czi@arrl.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.swap
Subject: FA: Nice Variable Capacitors
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <Kxsii.116440$Y_.36170@read1.cgocable.net>
Date: Tue, 3 Jul 2007 09:53:35 -0400
NNTP-Posting-Host: 24.141.130.191
X-Complaints-To: news@cogeco.net
X-Trace: read1.cgocable.net 1183470826 24.141.130.191 (Tue, 03 Jul 2007 09:53:46 EDT)
NNTP-Posting-Date: Tue, 03 Jul 2007 09:53:46 EDT
Organization: Cogeco Cable
Xref: g2news1.google.com rec.radio.amateur.homebrew:13604 rec.radio.swap:16754

Nice Variable Capacitors now on auction on ebay:

http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&rd=1&item=320133708120&ssPageName=STRK:MESE:IT&ih=011

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=320133690265

Tnx for looking...Norm VE3CZI

From 5357533434556007269
X-Google-Thread: fc2a5,24355473894c84d1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 03 Jul 2007 11:00:56 -0500
Date: Tue, 03 Jul 2007 09:06:17 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Mixing high side versus low side and (f1 - f2) versus (f1 + f2)
References: <1183426253.919571.158310@g4g2000hsf.googlegroups.com>
In-Reply-To: <1183426253.919571.158310@g4g2000hsf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <p-mdnfCgSuQl7xfbnZ2dnUVZ_rrinZ2d@web-ster.com>
Lines: 37
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-vBc+Qh1HqTjSi4v2I3aW4dbz+l4Vu6pe/m70JEz7JVPYWFewOWTR/
d13HyoaB8R+psT4xl23MP7eAvR!
oqq5ZSMVvRk0ysQAyuG2aWxbiwWw1US+2Ex3LKRCppp+ZOYOpjzsGQHm6lnAwo7BBs0sf+9bsEBo!
MPdt8o8RoBtjrtas
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com rec.radio.amateur.homebrew:13606

john@feith.com wrote:
> I've heard that high side mixing is preferred to low side
> mixing because the LO harmonics will be higher and less
> likely to cause problems.
>
> It also seems to me that (f1 + f2) is typically discarded
> and what's used is just the (f1 - f2).
>
> Any truth to either of these impressions? If so, what's

> the rational?
>
> Depending on the availability of off the shelf VCO parts
> one might what to use (f1 + f2) or low side mixing and I
> was just curious what (if any) additional problems I should
> look out for.
>
> -- John
> john@feith.com
>

It's easier to dodge harmonics and higher-order mixing products.

For _any_ IF/LO combination you should make a table of the possible
mixing products of the first few harmonics of your RF range with
several harmonics of your LO range (most modern mixers generate _lots_
of odd harmonics of the LO internally). If any of these products other
than the intended pair span the IF then you'll have problems with
spurious mixing.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From 4416390685324669187
X-Google-Thread: fc2a5,5cb0a0a890b370a0,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m37g2000prh.googlegroups.com!not-for-mail
From: gilbertlamber@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: NASA Extends Bioastronautics Contract with Wyle Labs
Date: Tue, 03 Jul 2007 10:16:15 -0700
Organization: http://groups.google.com
Lines: 6
Message-ID: <1183482975.655359.130140@m37g2000prh.googlegroups.com>
NNTP-Posting-Host: 210.211.179.215
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1183482976 17076 127.0.0.1 (3 Jul 2007 17:16:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 3 Jul 2007 17:16:16 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.20 (Windows NT 5.0; U; en),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m37g2000prh.googlegroups.com; posting-host=210.211.179.215;

   posting-account=j0iTVw0AAABAvsu5gQZ2Rlc8V3p5UqjM
Xref: g2news1.google.com rec.radio.amateur.homebrew:13607

'NASA has exercised a $294 million option to extend a contract with
Wyle Laboratories Inc. of Houston to support the Space Life Sciences
Directorate at NASA's Johnson Space Center.'Report available at

http://theanalystmagazine.com/pr/536.htm

From -5486265040701559802
X-Google-Thread: fc2a5,5cb0a0a890b370a0
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.litech.org!not-for-mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: NASA Extends Bioastronautics Contract with Wyle Labs
Date: Tue, 3 Jul 2007 17:38:55 +0000 (UTC)
Organization: Me?
Lines: 17
Sender: mikea@mikea.ath.cx
Message-ID: <f6e1jf$gfr$2@puck.litech.org>
References: <1183482975.655359.130140@m37g2000prh.googlegroups.com>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1183484335 16891 70.164.65.62 (3 Jul 2007 17:38:55 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Tue, 3 Jul 2007 17:38:55 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news1.google.com rec.radio.amateur.homebrew:13608

On Tue, 03 Jul 2007 10:16:15 -0700,
 gilbertlamber@gmail.com wrote in
 <1183482975.655359.130140@m37g2000prh.googlegroups.com>:

> 'NASA has exercised a $294 million option to extend a contract with
> Wyle Laboratories Inc. of Houston to support the Space Life Sciences
> Directorate at NASA's Johnson Space Center.'Report available at

> http://theanalystmagazine.com/pr/536.htm

Mmmmmhmmmmm ... and this really is important for all us radio-builders
to know, I suppose. But _why_?

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

```
From 4179944089075217222
X-Google-Thread: 106d41,bf0c48af9a5b45bb,start
X-Google-Thread: 108122,bf0c48af9a5b45bb,start
X-Google-Thread: fc2a5,bf0c48af9a5b45bb,start
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!57g2000hsv.googlegroups.com!not-for-
mail
From:  Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
Date: Thu, 05 Jul 2007 10:46:16 -0700
Organization: http://groups.google.com
Lines: 2
Message-ID: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1183657576 22018 127.0.0.1 (5 Jul 2007 17:46:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 5 Jul 2007 17:46:16 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 57g2000hsv.googlegroups.com; posting-host=216.203.30.4;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news1.google.com rec.radio.cb:37539 rec.radio.amateur.equipment:12256
rec.radio.amateur.homebrew:13609

http://www.telstar-electronics.com/default_files/NewProductDevelopment.htm
```

```
From -5186208620033294103
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newsfeed.gamma.ru!Gamma.RU!sn-xt-sjc-03!
sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Frank Gilliland <w�renut@NOSPAM�cehouse.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
Date: Thu, 05 Jul 2007 13:19:11 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <cakq83drjhar32gvn9sg5nl32258um35mj@4ax.com>
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
X-Newsreader: Forte Free Agent 1.93/16.576 English (American)
MIME-Version: 1.0
```

```
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 13
Xref: g2news1.google.com rec.radio.cb:37549 rec.radio.amateur.equipment:12258
rec.radio.amateur.homebrew:13610
```

On Thu, 05 Jul 2007 10:46:16 -0700, Telspam Electronics
<briangriffey@sbcglobal.net> wrote in
<1183657576.008566.165500@57g2000hsv.googlegroups.com>:

>http://www.telspam-electronics.com/default_files/NewProductDevelopment.htm

Hey Brian, if I use your pre-production-stage-for-almost-a-year-now
processor to ask why you refuse to post your now defunct non-linear
linear, like I've been doing for over a year, would you be able to
hear me THEN?

```
From -5506084596554054933
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
n60g2000hse.googlegroups.com!not-for-mail
From:  Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
Date: Thu, 05 Jul 2007 13:20:09 -0700
Organization: http://groups.google.com
Lines: 9
Message-ID: <1183666809.236224.322840@n60g2000hse.googlegroups.com>
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
   <cakq83drjhar32gvn9sg5nl32258um35mj@4ax.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1183666809 11139 127.0.0.1 (5 Jul 2007 20:20:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 5 Jul 2007 20:20:09 +0000 (UTC)
In-Reply-To: <cakq83drjhar32gvn9sg5nl32258um35mj@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n60g2000hse.googlegroups.com; posting-host=216.203.30.4;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
```

```
Xref: g2news1.google.com rec.radio.cb:37550 rec.radio.amateur.equipment:12259
rec.radio.amateur.homebrew:13611

On Jul 5, 3:19 pm, Frank Gilliland <w=EFrenut@NOSPAM=EFcehouse.net> wrote:
> Hey Brian, if I use your pre-production-stage-for-almost-a-year-now
> processor to ask why you refuse to post your now defunct non-linear
> linear, like I've been doing for over a year, would you be able to
> hear me THEN?

Thanks for your interest in VoiceMax...
http://www.telstar-electronics.com/default_files/NewProductDevelopment.htm




From 7697435518329003818
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!feeder3.cambrium.nl!feeder5.cambrium.nl!
feeder1.cambrium.nl!feed.tweaknews.nl!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-
ams-08!sn-ams!sn-feed-ams-03!sn-post-ams-02!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: Frank Gilliland <w�renut@NOSPAM�cehouse.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
Date: Thu, 05 Jul 2007 13:49:45 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <6ilq83p1gpk6vl8selt6kfi0mc2c378bdp@4ax.com>
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
<cakq83drjhar32gvn9sg5nl32258um35mj@4ax.com>
<1183666809.236224.322840@n60g2000hse.googlegroups.com>
X-Newsreader: Forte Free Agent 1.93/16.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@supernews.com
Lines: 30
Xref: g2news1.google.com rec.radio.cb:37551 rec.radio.amateur.equipment:12260
rec.radio.amateur.homebrew:13612

On Thu, 05 Jul 2007 13:20:09 -0700, Telspam Electronics
<briangriffey@sbcglobal.net> wrote in
<1183666809.236224.322840@n60g2000hse.googlegroups.com>:

>On Jul 5, 3:19 pm, Frank Gilliland <w�renut@NOSPAM�cehouse.net> wrote:
>> Hey Brian, if I use your pre-production-stage-for-almost-a-year-now
>> processor to ask why you refuse to post your now defunct non-linear
>> linear, like I've been doing for over a year, would you be able to
>> hear me THEN?
>
>Thanks for your interest in VoiceMax...
```

>http://www.telspam-electronics.com/default_files/NewProductDevelopment.htm

WOW, that was FAST!!! Is that all you do? Sit there in your parent's basement waiting for someone to order one of your hack-jobs when you can't even give an estimate on when they will go into full production? Don't you have anything better to do? I mean, heck...... look at posts from yesterday afternoon, one of the biggest national holidays, when just about everybody can find something to do besides jerking off in front of a computer. It seems that the only people who posted were you and the trolls. And yet, even with all that spare time because you couldn't drag your ass away from the computer and out of the basement long enough to join the rest of humanity in a barbecue, you AGAIN refused to answer the tough question, just like you have done for several years now.....

Where's the schematic for your hacked amp, Brian?

```
From -3874181808357751436
X-Google-Thread: fc2a5,ba90d1514918cdc3,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: "Richard" <nearlynews_email@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Naming the title of your webpage
Date: Fri, 6 Jul 2007 00:02:56 +0100
Lines: 51
Message-ID: <5f5bkqF3bmn91U1@mid.individual.net>
Mime-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Trace: individual.net gXdSXALCZf9pLdG1z2i8YAti/uNs9CRU9Ov1UkwYShDUwEiBbx
Cancel-Lock: sha1:XUeIMEVDOSGNam6b1DWKvAMgEus=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Xref: g2news1.google.com rec.radio.amateur.homebrew:13613
```

Hi.

I often search for people's web-published homebrew receiver, transmitter, or transceiver projects.

Can I please encourage those that design these radios to try to conform to a standard when choosing the title name of your webpages. That would make it better when searching for radio projects.

I was thinking that a convention could be something like the examples below:

"DX Chaser 5" AM Multiband Receiver

"Super-smashing-great-all-singing-and-dancing DX sniffer" 20m Monoband SSB receiver

"The better than Pixie" 30m CW Monoband Transciever

"Goblin 80/40" 80/40m CW/SSB Dual Band Tranceiver

"Babe Radio 77" 10m FM Monoband Transmitter

The thing is to try to name the page so that folks can put a search string together i.e:

"CW Monoband Transceiver"

"SSB Monoband Transceiver"

"AM Multiband"

"80/40 CW/SSB" Transceiver

Etc etc.

Although I think maybe if one searches the name of the title page only, there might not any advantage in using a search phrase.

It might even be good to put "homebrew" in the title as well.

Well, I think it's a good idea. :c)

I do find that I want to identify receivers only, transmitters only, and transceivers only, and whether monoband (and what band) or multiband, and what mode(s).

Perhaps someone can come up with a better naming convention.

Thanks.

From 6281212709625108722
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

From: "TJY" <nonews@tjy.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
Date: Fri, 6 Jul 2007 01:13:19 +0100
Lines: 13
Organization: TJY
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <468d8928$1_4@mk-nntp-2.news.uk.tiscali.com>
X-Original-NNTP-Posting-Host: 80.47.55.55
NNTP-Posting-Host: mk-nntp-2.news.uk.tiscali.com
X-Trace: 6 Jul 2007 01:13:31 +0100, mk-nntp-2.news.uk.tiscali.com
Path: g2news1.google.com!news3.google.com!feeder3.cambrium.nl!feeder1.cambrium.nl!feed.tweaknews.nl!tudelft.nl!txtfeed1.tudelft.nl!multikabel.net!newsfeed10.multikabel.net!news.astraweb.com!newsrouter-eu.astraweb.com!tiscali!newsfeed2.ip.tiscali.net!212.74.112.120.MISMATCH!mk-nntp-1.news.uk.tiscali.com!mk-nntp-2.news.uk.tiscali.com
Xref: g2news1.google.com rec.radio.cb:37554 rec.radio.amateur.equipment:12261 rec.radio.amateur.homebrew:13614

"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
news:1183657576.008566.165500@57g2000hsv.googlegroups.com...
> http://www.telstar
>

Oh dear, are you selling oscilloscopes and test sets in order for buyers to
set their radios correctly?
You really don't have any technical knowledge. All you seem to do is
re-sell boards made by other companies.
You should see what people are saying about you in other groups, you have a
terrible reputation.

From 3809181616710611171
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o61g2000hsh.googlegroups.com!not-for-mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
Date: Thu, 05 Jul 2007 17:44:07 -0700
Organization: http://groups.google.com
Lines: 14

```
Message-ID: <1183682647.085637.26330@o61g2000hsh.googlegroups.com>
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
   <468d8928$1_4@mk-nntp-2.news.uk.tiscali.com>
NNTP-Posting-Host: 76.197.208.239
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1183682647 28095 127.0.0.1 (6 Jul 2007 00:44:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 6 Jul 2007 00:44:07 +0000 (UTC)
In-Reply-To: <468d8928$1_4@mk-nntp-2.news.uk.tiscali.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o61g2000hsh.googlegroups.com; posting-host=76.197.208.239;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news1.google.com rec.radio.cb:37555 rec.radio.amateur.equipment:12262
rec.radio.amateur.homebrew:13615

On Jul 5, 7:13 pm, "TJY" <non...@tjy.com> wrote:
> Oh dear, are you selling oscilloscopes and test sets in order for buyers to
> set their radios correctly?
> You really don't have any technical knowledge.  All you seem to do is
> re-sell boards made by other companies.
> You should see what people are saying about you in other groups, you have a
> terrible reputation.

Hmmm... what company am I buying boards from?
Maybe I can stop designing... and just get the boards from them... lol
Thanks for your comments... they were quite amusing.
www.telstar-electronics.com




From 58793550298818764
X-Google-Thread: fc2a5,ba90d1514918cdc3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out03a.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews6.bellsouth.net.POSTED!0ed2130f!not-for-mail
From: "Mike Lucas" <w5chr@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
References: <5f5bkqF3bmn91U1@mid.individual.net>
Subject: Re: Naming the title of your webpage
Lines: 42
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
```

X-RFC2646: Format=Flowed; Response
Message-ID: <ixhji.7887$K9.2801@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcboiccoljioikpklgkgkmjoajgaedcpfbgecd
mbdloecdkolfiejdgicipfeeoalfmhkijhhagfkjbgilpanlbgoakcehkgacmejodgdlogbjcoaklo
NNTP-Posting-Date: Thu, 05 Jul 2007 22:11:26 EDT
Organization: BellSouth Internet Group
Date: Thu, 5 Jul 2007 21:11:38 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:13616

"Richard" <nearlynews_email@ntlworld.com> wrote in message
news:5f5bkqF3bmn91U1@mid.individual.net...
> Hi.
>
> I often search for people's web-published homebrew receiver, transmitter,
> or
> transceiver projects.
>
> Can I please encourage those that design these radios to try to conform to
> a
> standard when choosing the title name of your webpages. That would make it
> better when searching for radio projects.
>
snip
>
> I do find that I want to identify receivers only, transmitters only, and
> transceivers only, and whether monoband (and what band) or multiband, and
> what mode(s).
>
> Perhaps someone can come up with a better naming convention.
>
> Thanks.

I'm afraid your idea won't catch on, as it seems to make sense(at least
to me!).
My wife (also a ham) complained about the time_sink of surfing the web,
looking
for that unread receiver article.But she decided it was cheaper to read
about
radios and such on the web, rather than actually buying them and bringing
them
home.
Along with your naming convention, I'd hope that everyone would make
PDF's
of all such articles.
Any websites you would recommend for the high_perf receiver fan????

Mike W5CHR
Memphis

From 4342283952161972043
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!mauve.octanews.net!
be1-002.octanews.net!news-out.octanews.net!indigo.octanews.net!
auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
Date: Thu, 05 Jul 2007 23:05:51 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.07.06.06.05.51.297937@localhost.localdomain>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
Followup-To: rec.radio.amateur.homebrew
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 8
Organization: Octanews
NNTP-Posting-Date: 06 Jul 2007 01:06:00 CDT
X-Complaints-To: abuse@octanews.net
X-Original-Bytes: 1035
Xref: g2news1.google.com rec.radio.cb:37558 rec.radio.amateur.equipment:12264
rec.radio.amateur.homebrew:13617

Looks like an interesting and RELEVANT product.

I have no idea why others are so ignorant and anal towards your product.

Cheers,
--
Gregg

From 8058445155915448153
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gidfc2a5,gid108122,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!57g2000hsv.googlegroups.com!not-for-mail
From: Telstar Electronics <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?

Date: Fri, 06 Jul 2007 04:31:14 -0700
Organization: http://groups.google.com
Lines: 16
Message-ID: <1183721474.267106.19270@57g2000hsv.googlegroups.com>
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
   <pan.2007.07.06.06.05.51.297937@localhost.localdomain>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1183721475 6242 127.0.0.1 (6 Jul 2007 11:31:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 6 Jul 2007 11:31:15 +0000 (UTC)
In-Reply-To: <pan.2007.07.06.06.05.51.297937@localhost.localdomain>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 57g2000hsv.googlegroups.com; posting-host=216.203.30.4;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news1.google.com rec.radio.cb:37560 rec.radio.amateur.homebrew:13618 rec.radio.amateur.equipment:12265

On Jul 6, 1:05 am, geek <g...@localhost.localdomain> wrote:
> Looks like an interesting and RELEVANT product.
> I have no idea why others are so ignorant and anal towards your product.
> Cheers,
> Gregg

Gregg,
There is no excuse for how many out here conduct themselves... but
there are reasons.
The main reason is that they have nothing of merit to add to any
conversation here, but desperately need to be recognized.
Thanks for your comment.
www.telstar-electronics.com

From -7576581292303743229
X-Google-Thread: 106d41,5cf8fd71892c46c9
X-Google-Thread: 108122,97c2b1a6e20dbde9,start
X-Google-Thread: fc2a5,97c2b1a6e20dbde9,start
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!sn-xt-sjc-04!sn-xt-sjc-09!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Frank Gilliland <w�renut@NOSPAM�cehouse.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Learn How VoiceMax Increases Your Transmission Range...
Date: Fri, 06 Jul 2007 07:59:48 -0700
Organization: Posted via Supernews, http://www.supernews.com

Message-ID: <frks83tckgusnl75l18dv933vis5fauu5d@4ax.com>
References: <1183478626.478129.204960@o61g2000hsh.googlegroups.com>
<1183484733.571081.133830@w5g2000hsg.googlegroups.com>
<1183485293.142104.321980@q75g2000hsh.googlegroups.com>
<7oql835u483n1o151decpe05bjfnfr3u3n@4ax.com>
<1183553502.651746.34890@q75g2000hsh.googlegroups.com>
<f6jg7g$phk$6@energise.enta.net>
<1183683031.861872.78480@m36g2000hse.googlegroups.com>
<fm5r83dsk16q3a6v0dndl1ksrautojki0i@4ax.com>
<1183722153.928798.257450@c77g2000hse.googlegroups.com>
X-Newsreader: Forte Free Agent 1.93/16.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@supernews.com
Lines: 39
Xref: g2news1.google.com rec.radio.cb:37562 rec.radio.amateur.equipment:12267
rec.radio.amateur.homebrew:13619

On Fri, 06 Jul 2007 04:42:33 -0700, Telspam Electronics
<briangriffey@sbcglobal.net> wrote in
<1183722153.928798.257450@c77g2000hse.googlegroups.com>:

>On Jul 5, 8:23 pm, Frank Gilliland <w�renut@NOSPAM�cehouse.net> wrote:
>> But the most fun will come when I post the results and watch you try
>> and shovel a large pile of techno-turds trying to defend against how
>> your box -really- works.
>
>Frank, I think you have already written your review... before the
>product is even available.
>I believe that even the dullest of folks out here know that your
>review wouldn't be worth the "bandwidth it's printed on"... lol

Why don't you ask Twistedhed about that one. I fought him for years on
a political issue only to find out that I was wrong. I still disagree
with his freebanding, but when I'm proven wrong, at least -he- knows
that I'll stand up and take my punches.

I'm giving you a chance to prove me wrong, Brian. If you product works
like you say it does, and it doesn't cost you any money, why in the
world -wouldn't- you be willing to sell me one?

>P.S. How's your master's degree from the College of Culinary Arts
>coming? Did you ever perfect your french pronounciation of "Do you
>want fries with that"?

No, but last March I did finish a study on EM wave interference
pattern and polarization interactions in atmospheric media of varying
ionization. It was a joint project with the meteorology department in
the study of weather radar, with extended applications to satellite

communications. Got any opinions on the subject, Brian?

Oh, and where's that schematic for your non-linear linear?

From -7066982053310867868
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gidfc2a5,gid108122,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
From: Frank Gilliland <w�renut@NOSPAM�cehouse.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
Date: Fri, 06 Jul 2007 08:19:16 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <b0ns83l6ooegb2cjsvhgkfffq8u70o7tsh@4ax.com>
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
<pan.2007.07.06.06.05.51.297937@localhost.localdomain>
<1183721474.267106.19270@57g2000hsv.googlegroups.com>
X-Newsreader: Forte Free Agent 1.93/16.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 22
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!kanaga.switch.ch!switch.ch!news.in2p3.fr!in2p3.fr!feed.ac-versailles.fr!exabot.com!freenix!sn-xt-sjc-05!sn-xt-sjc-08!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
Xref: g2news1.google.com rec.radio.cb:37563 rec.radio.amateur.homebrew:13620 rec.radio.amateur.equipment:12268

On Fri, 06 Jul 2007 04:31:14 -0700, Telspam Electronics
<briangriffey@sbcglobal.net> wrote in
<1183721474.267106.19270@57g2000hsv.googlegroups.com>:

>On Jul 6, 1:05 am, geek <g...@localhost.localdomain> wrote:
>> Looks like an interesting and RELEVANT product.
>> I have no idea why others are so ignorant and anal towards your product.
>> Cheers,
>> Gregg
>
>Gregg,
>There is no excuse for how many out here conduct themselves...

Absolutely right. These are discussion groups, but some people would rather use them as their own personal media for spamming products that would otherwise be pulled from the market for patent violations and/or

false advertising. It's truly shameful how these basement-dwellers
act, isn't it, Brian?

From 3721986364889927108
X-Google-Thread: fc2a5,ba90d1514918cdc3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!feeder.news-service.com!newsfeed.freenet.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: "Richard" <nearlynews_email@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Naming the title of your webpage
Date: Fri, 6 Jul 2007 17:11:29 +0100
Lines: 30
Message-ID: <5f77tfF3b7kohU1@mid.individual.net>
References: <5f5bkqF3bmn91U1@mid.individual.net>
<ixhji.7887$K9.2801@bignews6.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Trace: individual.net 95aiQx1WGM16cAGb8F498AD821s00AJaw9BUOBhUkn0LlEpmoJ
Cancel-Lock: sha1:4SXbb89MgYmXZML9f+v+PdOMPrI=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Xref: g2news1.google.com rec.radio.amateur.homebrew:13621

"Mike Lucas" <w5chr@bellsouth.net> wrote in message
news:ixhji.7887$K9.2801@bignews6.bellsouth.net...
>   I'm afraid your idea won't catch on, as it seems to make sense(at
> least to me!).
> My wife (also a ham) complained about the time_sink of surfing the web,
> looking
> for that unread receiver article.But she decided it was cheaper to read
> about
> radios and such on the web, rather than actually buying them and bringing
> them
> home.
>   Along with your naming convention, I'd hope that everyone would make
> PDF's
> of all such articles.
>   Any websites you would recommend for the high_perf receiver fan????
>

> Mike W5CHR
> Memphis

Hi.

Yes, and I think maybe there are free services or programs that will convert WORD files to PDF.

I don't know much really, but I just found this nice site:

http://www.qrp.pops.net/default.asp

From -7477353153518907451
X-Google-Thread: fc2a5,ba90d1514918cdc3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 06 Jul 2007 12:03:07 -0500
Date: Fri, 06 Jul 2007 18:03:05 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Naming the title of your webpage
References: <5f5bkqF3bmn91U1@mid.individual.net>
<ixhji.7887$K9.2801@bignews6.bellsouth.net> <5f77tfF3b7kohU1@mid.individual.net>
In-Reply-To: <5f77tfF3b7kohU1@mid.individual.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <wdqdnRCGouNW6BPbnZ2dnUVZ8qeknZ2d@pipex.net>
Lines: 15
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.225.41
X-Trace: sv3-
d8VxlR1HyK6HEtaFCRvFp4ocASazXxAHPyWuXeK8r64UxEqcqW6ahiT3rUK53T1oWKDLH/u/wtjwZU8!
iHoGl+QIiq7h2J0IGzeD2O/yzjqcG1I2VL4jXgAqInUMEnckNeisVcrYhnQMNdr5eRn2P95wiH/s!
6H5RmirvlqjQQSHJ8hlab/p+5w==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com rec.radio.amateur.homebrew:13622

> Yes, and I think maybe there are free services or programs that will
> convert WORD files to PDF.
>

> I don't know much really, but I just found this nice site:
>
> http://www.qrp.pops.net/default.asp
============================
Indeed a superb homebrew site with excellent schematics presentation.

Frank   GM0CSZ / KN6WH

From 7522624851138902276
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!feeder.news-service.com!newsfeed.freenet.de!newsfeed00.sul.t-online.de!t-online.de!storethat.news.telefonica.de!telefonica.de!nntpserver.com!zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: Mark@TayleorRobesin.org
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
Date: Fri, 06 Jul 2007 16:16:01 -0400
Message-ID: <6m8t83d141lq2vheavf2sl47kbfuadorfk@4ax.com>
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
<pan.2007.07.06.06.05.51.297937@localhost.localdomain>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 22
NNTP-Posting-Date: 06 Jul 2007 19:24:05 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13623

On Thu, 05 Jul 2007 23:05:51 -0700, geek <geek@localhost.localdomain>
wrote:

>Looks like an interesting and RELEVANT product.
>
>I have no idea why others are so ignorant and anal towards your product.
>
>Cheers,
>__
>Gregg
he has offened them in the past the disciroptive word is "vendetta"
but of course it means he reqruitus them in to helping him spread the
word of his product

"one useless man is disgrace 2 become a law firm 3 or more become a congress" adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/

G

--
Posted via a free Usenet account from http://www.teranews.com

```
From -6731606704068674131
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gidfc2a5,gid108122,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!news-
xxxfer.readnews.com!news-out.readnews.com!postnews3.readnews.com!
nr2.newsreader.com.POSTED!not-for-mail
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
From: Steveo <moparholic@hotmail.com>
Organization: .
Message-ID: <20070706195844.063$Xh@newsreader.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
<pan.2007.07.06.06.05.51.297937@localhost.localdomain>
<1183721474.267106.19270@57g2000hsv.googlegroups.com>
<b0ns83l6ooegb2cjsvhgkfffq8u70o7tsh@4ax.com>
X-NRC-Trace: NewsReader.Com UfntUG86KCHNq50QC0TQEOban6SFjtYkvBlr-sUFLcYne1F
Date: 06 Jul 2007 23:58:41 GMT
Lines: 24
NNTP-Posting-Host: 00c232d6.nr2.newsreader.com
X-Trace: DXC=I0HMbA4iM4D?_;?
Al0e=<NOA8_@f\K_iB[=@X@CQ0MOE=db1]H@OQFBNd7biGRhQTG<SVPgDF]ACD`HPhe<9d_gO
X-Complaints-To: abuse@newsreader.com
Xref: g2news1.google.com rec.radio.cb:37569 rec.radio.amateur.homebrew:13624
rec.radio.amateur.equipment:12271
```

```
Frank Gilliland <w�renut@NOSPAM�cehouse.net> wrote:
> On Fri, 06 Jul 2007 04:31:14 -0700, Telspam Electronics
> <briangriffey@sbcglobal.net> wrote in
> <1183721474.267106.19270@57g2000hsv.googlegroups.com>:
>
> >On Jul 6, 1:05 am, geek <g...@localhost.localdomain> wrote:
> >> Looks like an interesting and RELEVANT product.
> >> I have no idea why others are so ignorant and anal towards your
> >> product. Cheers,
> >> Gregg
> >
> >Gregg,
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> Absolutely right. These are discussion groups, but some people would
> rather use them as their own personal media for spamming products that
> would otherwise be pulled from the market for patent violations and/or
> false advertising. It's truly shameful how these basement-dwellers
> act, isn't it, Brian?
>
People like Brian Griffey. He must have sold at least -one- unit to a rrcb
reader by now, eh?

  "LOL"



From 1251327970804602951
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gidfc2a5,gid108122,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!news.glorb.com!sn-xt-sjc-04!sn-xt-
sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Frank Gilliland <w�renut@NOSPAM�cehouse.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
Date: Fri, 06 Jul 2007 18:04:52 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <japt83tpaaa8lvqe3rn2qbu474p6qprhag@4ax.com>
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
<pan.2007.07.06.06.05.51.297937@localhost.localdomain>
<1183721474.267106.19270@57g2000hsv.googlegroups.com>
<b0ns83l6ooegb2cjsvhgkfffq8u70o7tsh@4ax.com>
<20070706195844.063$Xh@newsreader.com>
X-Newsreader: Forte Free Agent 1.93/16.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@supernews.com
Lines: 36
Xref: g2news1.google.com rec.radio.cb:37574 rec.radio.amateur.homebrew:13625
rec.radio.amateur.equipment:12272

On 06 Jul 2007 23:58:41 GMT, Steveo <moparholic@hotmail.com>  wrote in
<20070706195844.063$Xh@newsreader.com>:

>Frank Gilliland <w�renut@NOSPAM�cehouse.net> wrote:
>> On Fri, 06 Jul 2007 04:31:14 -0700, Telspam Electronics
>> <briangriffey@sbcglobal.net> wrote in
>> <1183721474.267106.19270@57g2000hsv.googlegroups.com>:
>>
>> >On Jul 6, 1:05 am, geek <g...@localhost.localdomain> wrote:
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>> >> Gregg
>> >
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>>
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>> would otherwise be pulled from the market for patent violations and/or
>> false advertising. It's truly shameful how these basement-dwellers
>> act, isn't it, Brian?
>>
>People like Brian Griffey. He must have sold at least -one- unit to a rrcb
>reader by now, eh?
>
>  "LOL"


You'd think he would have suckered someone by now. If not then why
would he keep spamming the groups?

"LOL!"






From 6091031886285154581
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gidfc2a5,gid108122,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-xxxfer.readnews.com!news-out.readnews.com!
postnews3.readnews.com!nr2.newsreader.com.POSTED!not-for-mail
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
From: Steveo <moparholic@hotmail.com>
Organization: .
Message-ID: <20070706211702.481$Ac@newsreader.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
<pan.2007.07.06.06.05.51.297937@localhost.localdomain>
<1183721474.267106.19270@57g2000hsv.googlegroups.com>
<b0ns83l6ooegb2cjsvhgkfffq8u70o7tsh@4ax.com>
<20070706195844.063$Xh@newsreader.com>
<japt83tpaaa8lvqe3rn2qbu474p6qprhag@4ax.com>
X-NRC-Trace: NewsReader.Com iDp+Hr/wBVjOMCS0OMximSGEqn02Rb2+,e=gXk_AwlIMn2xS_e
Date: 07 Jul 2007 01:16:59 GMT
Lines: 41
NNTP-Posting-Host: 0a2134f7.nr2.newsreader.com
X-Trace:
```

```
DXC=oZR_BAfEPkce[4n2Z3C1:jOA8_@f\K_ib[=@X@CQ0MOeGliFIWEb7DcNd7biGRhQTg<@WejEU8`Yk^
YRW86[Ga:c
X-Complaints-To: abuse@newsreader.com
Xref: g2news1.google.com rec.radio.cb:37575 rec.radio.amateur.homebrew:13626
rec.radio.amateur.equipment:12274

Frank Gilliland <w�renut@NOSPAM�cehouse.net> wrote:
> On 06 Jul 2007 23:58:41 GMT, Steveo <moparholic@hotmail.com>  wrote in
> <20070706195844.063$Xh@newsreader.com>:
>
> >Frank Gilliland <w�renut@NOSPAM�cehouse.net> wrote:
> >> On Fri, 06 Jul 2007 04:31:14 -0700, Telspam Electronics
> >> <briangriffey@sbcglobal.net> wrote in
> >> <1183721474.267106.19270@57g2000hsv.googlegroups.com>:
> >>
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> >> act, isn't it, Brian?
> >>
> >People like Brian Griffey. He must have sold at least -one- unit to a
> >rrcb reader by now, eh?
> >
> >  "LOL"
>
> You'd think he would have suckered someone by now. If not then why
> would he keep spamming the groups?
>
> "LOL!"
>
Die hard with a spam vengeance! (bruce willis is resurrected/bald too)

Brian is only about twenty years late with his CB noise toys, he might have
sold a gaggle of them in the 70's if he wasn't so busy with his paper route
at the time.

 "LOL"


From 5941250500866223079
X-Google-Thread: 106d41,5cf8fd71892c46c9
X-Google-Thread: 108122,97c2b1a6e20dbde9
X-Google-Thread: fc2a5,97c2b1a6e20dbde9
```

X-Google-Attributes: gid106d41,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!out02b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!news-out.readnews.com!
postnews3.readnews.com!nr2.newsreader.com.POSTED!not-for-mail
Subject: Re: Learn How VoiceMax Increases Your Transmission Range...
From: Steveo <moparholic@hotmail.com>
Organization: .
Message-ID: <20070706213648.969$pX@newsreader.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <1183478626.478129.204960@o61g2000hsh.googlegroups.com>
<1183484733.571081.133830@w5g2000hsg.googlegroups.com>
<1183485293.142104.321980@q75g2000hsh.googlegroups.com>
<7oql835u483n1o151decpe05bjfnfr3u3n@4ax.com>
<1183553502.651746.34890@q75g2000hsh.googlegroups.com>
<f6jg7g$phk$6@energise.enta.net>
<1183683031.861872.78480@m36g2000hse.googlegroups.com>
<fm5r83dsk16q3a6v0dndl1ksrautojki0i@4ax.com>
<1183722153.928798.257450@c77g2000hse.googlegroups.com>
<frks83tckgusnl75l18dv933vis5fauu5d@4ax.com>
X-NRC-Trace: NewsReader.Com EfdV6jvS,c6_R3xLk9FJdZyMs_BzJ@DsHfqL@XJ6d.rvsK
Date: 07 Jul 2007 01:36:45 GMT
Lines: 26
NNTP-Posting-Host: 0a2134f7.nr2.newsreader.com
X-Trace:
DXC=1VVo@HVa>\M_0m8FUC;IjDOA8_@f\K_iB[=@X@CQ0MOE9WnXiVBMohFNd7biGRhQTG<@WejEU8`YK@
jJ\MRJnJYA
X-Complaints-To: abuse@newsreader.com
Xref: g2news1.google.com rec.radio.cb:37576 rec.radio.amateur.equipment:12275
rec.radio.amateur.homebrew:13627

Frank Gilliland <w�renut@NOSPAM�cehouse.net> wrote:
> On Fri, 06 Jul 2007 04:42:33 -0700, Telspam Electronics
> <briangriffey@sbcglobal.net> wrote in
> <1183722153.928798.257450@c77g2000hse.googlegroups.com>:
>
> >On Jul 5, 8:23 pm, Frank Gilliland <w�renut@NOSPAM�cehouse.net> wrote:
> >> But the most fun will come when I post the results and watch you try
> >> and shovel a large pile of techno-turds trying to defend against how
> >> your box -really- works.
> >
> >Frank, I think you have already written your review... before the
> >product is even available.
> >I believe that even the dullest of folks out here know that your
> >review wouldn't be worth the "bandwidth it's printed on"... lol
>
> Why don't you ask Twistedhed about that one. I fought him for years on
> a political issue only to find out that I was wrong. I still disagree
> with his freebanding, but when I'm proven wrong, at least -he- knows
> that I'll stand up and take my punches.
>
>

Frank turned out to be a stand up guy with me. We had our troubles a few
years back, and resolved it. Life's too short to argue about cross posted
CB modulators!

 "LOL"

```
From 7289881633563861492
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gidfc2a5,gid108122,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!sn-xt-sjc-04!sn-xt-sjc-01!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Frank Gilliland <w�renut@NOSPAM�cehouse.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
Date: Fri, 06 Jul 2007 19:32:09 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <77ut831rodf9kprg3dshegafgdfqne7lsr@4ax.com>
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
<pan.2007.07.06.06.05.51.297937@localhost.localdomain>
<1183721474.267106.19270@57g2000hsv.googlegroups.com>
<b0ns83l6ooegb2cjsvhgkfffq8u70o7tsh@4ax.com>
<20070706195844.063$Xh@newsreader.com>
<japt83tpaaa8lvqe3rn2qbu474p6qprhag@4ax.com>
<20070706211702.481$Ac@newsreader.com>
X-Newsreader: Forte Free Agent 1.93/16.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@supernews.com
Lines: 55
Xref: g2news1.google.com rec.radio.cb:37577 rec.radio.amateur.homebrew:13628
rec.radio.amateur.equipment:12276
```

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```
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>> >>
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>> >> >> product. Cheers,
>> >> >> Gregg
>> >> >
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>> >> >There is no excuse for how many out here conduct themselves...
>> >>
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>> >> act, isn't it, Brian?
>> >>
>> >People like Brian Griffey. He must have sold at least -one- unit to a
>> >rrcb reader by now, eh?
>> >
>> >  "LOL"
>>
>> You'd think he would have suckered someone by now. If not then why
>> would he keep spamming the groups?
>>
>> "LOL!"
>>
>Die hard with a spam vengeance! (bruce willis is resurrected/bald too)


Sigourney Weaver shaved her head -before- she was resurrected.


>Brian is only about twenty years late with his CB noise toys, he might have
>sold a gaggle of them in the 70's if he wasn't so busy with his paper route
>at the time.
>
> "LOL"


Who knows why he does it. Maybe that's how he plans to support himself
when mommy and daddy wise up and kick him out of the house...."LOL"






From 2610572244272245195
X-Google-Thread: 106d41,bf0c48af9a5b45bb
X-Google-Thread: fc2a5,bf0c48af9a5b45bb
X-Google-Thread: 108122,bf0c48af9a5b45bb
X-Google-Attributes: gid106d41,gidfc2a5,gid108122,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!out02b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!news-out.readnews.com!
postnews3.readnews.com!nr2.newsreader.com.POSTED!not-for-mail
Subject: Re: VoiceMax is Coming July 22nd... Are You Ready to be Heard?
From: Steveo <moparholic@hotmail.com>
```

```
Organization: .
Message-ID: <20070706223657.485$Yc@newsreader.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
References: <1183657576.008566.165500@57g2000hsv.googlegroups.com>
<pan.2007.07.06.06.05.51.297937@localhost.localdomain>
<1183721474.267106.19270@57g2000hsv.googlegroups.com>
<b0ns83l6ooegb2cjsvhgkfffq8u70o7tsh@4ax.com>
<20070706195844.063$Xh@newsreader.com>
<japt83tpaaa8lvqe3rn2qbu474p6qprhag@4ax.com>
<20070706211702.481$Ac@newsreader.com>
<77ut831rodf9kprg3dshegafgdfqne7lsr@4ax.com>
X-NRC-Trace: NewsReader.Com k@LE2XmJxCVdFD-6Qk,np+cnPvvdcEQM4zi1HfqL@XJ6d.Q14K
Date: 07 Jul 2007 02:36:53 GMT
Lines: 56
NNTP-Posting-Host: a7cb4b3b.nr2.newsreader.com
X-Trace:
DXC=fc\YMV0DGWCi6J]AL54R<AOA8_@f\K_iB[=@X@CQ0MOEZMZ;E_PGebNNd7biGRhQTGabI[<ZWSB4AS
X3^OR4HRMD
X-Complaints-To: abuse@newsreader.com
Xref: g2news1.google.com rec.radio.cb:37578 rec.radio.amateur.homebrew:13629
rec.radio.amateur.equipment:12277

Frank Gilliland <w�renut@NOSPAM�cehouse.net> wrote:
> On 07 Jul 2007 01:16:59 GMT, Steveo <moparholic@hotmail.com>  wrote in
> <20070706211702.481$Ac@newsreader.com>:
>
> >Frank Gilliland <w�renut@NOSPAM�cehouse.net> wrote:
> >> On 06 Jul 2007 23:58:41 GMT, Steveo <moparholic@hotmail.com>  wrote in
> >> <20070706195844.063$Xh@newsreader.com>:
> >>
> >> >Frank Gilliland <w�renut@NOSPAM�cehouse.net> wrote:
> >> >> On Fri, 06 Jul 2007 04:31:14 -0700, Telspam Electronics
> >> >> <briangriffey@sbcglobal.net> wrote in
> >> >> <1183721474.267106.19270@57g2000hsv.googlegroups.com>:
> >> >>
> >> >> >On Jul 6, 1:05 am, geek <g...@localhost.localdomain> wrote:
> >> >> >> Looks like an interesting and RELEVANT product.
> >> >> >> I have no idea why others are so ignorant and anal towards your
> >> >> >> product. Cheers,
> >> >> >> Gregg
> >> >> >
> >> >> >Gregg,
> >> >> >There is no excuse for how many out here conduct themselves...
> >> >>
> >> >> Absolutely right. These are discussion groups, but some people
> >> >> would rather use them as their own personal media for spamming
> >> >> products that would otherwise be pulled from the market for patent
> >> >> violations and/or false advertising. It's truly shameful how these
> >> >> basement-dwellers act, isn't it, Brian?
> >> >>
> >> >People like Brian Griffey. He must have sold at least -one- unit to a
> >> >rrcb reader by now, eh?
> >> >
> >> >  "LOL"
> >>
> >> You'd think he would have suckered someone by now. If not then why
> >> would he keep spamming the groups?
> >>
> >> "LOL!"
> >>
> >Die hard with a spam vengeance! (bruce willis is resurrected/bald too)
>
> Sigourney Weaver shaved her head -before- she was resurrected.
>
> >Brian is only about twenty years late with his CB noise toys, he might
> >have sold a gaggle of them in the 70's if he wasn't so busy with his
> >paper route at the time.
> >
> > "LOL"
>
> Who knows why he does it. Maybe that's how he plans to support himself
> when mommy and daddy wise up and kick him out of the house...."LOL"
>
My math was a bit fucked up, but it's relative with 11 meters opening up
again. Fun band with fun people, if'n you have a good radio and antenna. (a
must)

Onward through the fog ---->


From 1412609205264221791
X-Google-Thread: fc2a5,ba90d1514918cdc3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Naming the title of your webpage
Date: Fri, 06 Jul 2007 22:19:22 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.07.07.05.19.22.487032@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <5f5bkqF3bmn91U1@mid.individual.net>
<ixhji.7887$K9.2801@bignews6.bellsouth.net> <5f77tfF3b7kohU1@mid.individual.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 11
Organization: Octanews
NNTP-Posting-Date: 07 Jul 2007 00:19:33 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13630

Hi,

> Yes, and I think maybe there are free services or programs that will convert
```

> WORD files to PDF.

Yes, check out http://www.openoffice.org - a fully compatible, free and
open-source office suite that offers PDF exporting.

Cheers,

--
Gregg

```
From 7027334953588717586
X-Google-Thread: fc2a5,a6ed0bedf5b5b736,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!
news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 07 Jul 2007 01:55:28 -0500
Date: Sat, 07 Jul 2007 18:55:33 +1200
From: cliff wright <c.c.wright@paradise.net.nz>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Trying to identify receiver.
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000754-4, 06/07/2007), Outbound message
X-Antivirus-Status: Clean
X-Original-NNTP-Posting-Host: 121-72-0-99.dsl.telstraclear.net
Message-ID: <468f38dd@clear.net.nz>
X-Original-Trace: 7 Jul 2007 18:55:25 +1200, 121-72-0-99.dsl.telstraclear.net
Organization: CLEAR Net New Zealand http://www.clear.net.nz - Complaints
abuse@clear.net.nz
Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 203.97.37.6
X-Trace: sv3-VQC2uD1wac7VNbOYE29UxFM83DsK531F7gS/goXGpsAi0ktmQMseOvfi/
yDZOJi3eXJ4CNtJYHt+5Od!bKVTsuD05FKacirbcXdYIj0mNf2R5GiuNjwviPu4O3FVf+l5bl9JUkk=
X-Complaints-To: Complaints to abuse@clear.net.nz
X-DMCA-Complaints-To: Complaints to abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com rec.radio.amateur.homebrew:13631
```

Good Day All!

Have recently aquired a "homebrew" receiver which I am trying to upgrade
and fully restore to working order.
In the back of my mind I am quite sure that it was a published design

possibly in "Electronics Australia" or similar back in the 1960's or
early 70's.
It is a 6 valve/tube design using an ECF82 first mixer/oscillator (1st
if about 4 Mhz)
, a 6BE6 Pentagrid second mixer/osc, originally with varactor fine
tuning down to 455 KHz. 2nd oscillator on about 4.5 Mhz.
It then has 2 stages of 455 KHz IF originally using EF183's with 2 IF
transformers per stage, a total of 10 tuned circuits at 455 Khz.
This is followed by a 6BE6 product detector/BFO (Drake style) or a diode
for AM rception and an ECL82 for audio stage and output.
It has 4 bands from about 3 MHz to 30 MHz.
Does any one remember coming across this circuit?
It has some rather eccentric features like IF neutalisation and a VERY
lossy coupling between IF stages.
Any information gratefully received as I would like to
1. find an original circuit.
and
2. Find out why some of the peculiar design details were used.
Hope it rings a bell with someone.

73's Cliff Wright ZL1BDA ex G3NIA

```
From 5909444509212321141
X-Google-Thread: fc2a5,aede485c1f8588b2,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: "Richard" <nearlynews_email@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Naming your projects
Date: Sat, 7 Jul 2007 13:38:05 +0100
Lines: 27
Message-ID: <5f9fp3F3b7n3uU1@mid.individual.net>
Mime-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Trace: individual.net 4jH/Dg+4eHMCr7FUCoI50Ay/I2qNNsDkWtZfwrfdQxv4vXPC5B
Cancel-Lock: sha1:k1UE+/fGXOSAECIJOGTHf1sMe/g=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Xref: g2news1.google.com rec.radio.amateur.homebrew:13632
```

You designers (bless 'em) that advantage us with your design skills and
projects : Can I please encourage you to always (within reason) name your
creations. I think that would be beneficial for web searching for other
people's comments, or searching for how they implemented your designs.

Take for instance the following actual descriptions:

"The AP-80 An Alternative Pixie"

(Fine, the rig is called "AP-80")

"Low Cost AM SWBC Radio"

(Problem. No rig name)

"(Fairly) Simple 75M SSB rig with PTT"

(Problem. No rig name)

"SSB Receiver / Exciter and Linear amp"

(Problem. No name for the exciter, or RX)

Allocation of a name or number to whatever you design would help. IMHO. It seems a pity that we have a great resource in the web in search engines, but their usefulness is limited by failing to properly name.

```
From -2246785127870410891
X-Google-Thread: fc2a5,aede485c1f8588b2
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: "Richard" <nearlynews_email@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Naming your projects
Date: Sat, 7 Jul 2007 13:54:21 +0100
Lines: 8
Message-ID: <5f9go0F3bita6U1@mid.individual.net>
References: <5f9fp3F3b7n3uU1@mid.individual.net>
Mime-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Trace: individual.net 4plFbRmEB9Df+G71DxyMMgeswi23saCRzSTXDRtGBCWJZiwv4x
Cancel-Lock: sha1:qzOOtONcmFBJhVbnOiybDMZ4joU=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Xref: g2news1.google.com rec.radio.amateur.homebrew:13633
```

Let's say that I went and built the AP-80, but modified it a bit (or even if not), and published my implemetation of the AP-80. I'd name my creation/implementation something like "AP-80 (G3AAD)" (BTW, I'm not G3AAD.):c)

```
From -6805825279019710366
X-Google-Thread: f64c6,8c2d9914f1a1089b,start
X-Google-Thread: fc2a5,8c2d9914f1a1089b,start
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: "Polymath" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Putting the Ham back into Ham Radio
Date: Sat, 7 Jul 2007 15:35:10 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Lines: 25
Message-ID: <468f9862$0$7122$88260bb3@free.teranews.com>
NNTP-Posting-Date: 07 Jul 2007 13:42:58 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com uk.radio.amateur:119089 rec.radio.amateur.homebrew:13634
```

I wonder if we who are the Usenet-frequenting Radio Hams might somehow get together to sort out the dreadful mess that has been created in no small part by the self-interest of those who control the RSCB?

Might we all act together to produce a series of soggy "biscuits" that could then be assembled Lego-like fashion to produce any rig or test equipment? This would have a number of benefits, not the least of which would be the bankrupting of the cancerous emporia whose off-the-shelf Cheque-Book (CB) radios are not only discouraging the homebrew engineering that is the essence of _REAL_ Ham Radio but also encouraging an altogether undesirable element to regard themselves as of our ranks. Once the advertising income from those dead emporia ceased to flow, then the national societies might get back to supporting technical excellence instead of Complete Bullshit (CB) as they do now?

(And, no, I'm not thinking in terms of the facile hardware exercises that bring on the disease known as the gangrenous degeneration that is the M3/CB Fools' Licence scheme; facile because once a so-called "licence" has been granted the hardware diversion is largely forgotten.)

Anybody interested in mutual development of some soggy biscuits is invited to reply to the author via these fora.

--
Posted via a free Usenet account from http://www.teranews.com

From -8839043343165929160
X-Google-Thread: f64c6,8c2d9914f1a1089b
X-Google-Thread: fc2a5,8c2d9914f1a1089b
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder3.cambrium.nl!feeder1.cambrium.nl!feed.tweaknews.nl!tudelft.nl!binfeed1.tudelft.nl!border1.nntp.ams.giganews.com!nntp.giganews.com!news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!newsfe7-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Theo" <theodore.twyler@ntlworld.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <468f9862$0$7122$88260bb3@free.teranews.com>
Subject: Re: Putting the Ham back into Ham Radio
Lines: 3
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <z5Oji.14311$uR5.12655@newsfe7-gui.ntli.net>
Date: Sat, 07 Jul 2007 15:14:39 GMT
NNTP-Posting-Host: 82.9.82.106
X-Trace: newsfe7-gui.ntli.net 1183821279 82.9.82.106 (Sat, 07 Jul 2007 16:14:39 BST)
NNTP-Posting-Date: Sat, 07 Jul 2007 16:14:39 BST
Organization: NTL
Xref: g2news1.google.com uk.radio.amateur:119091 rec.radio.amateur.homebrew:13635

A anal gusher vent?

From -7420866300715613213
X-Google-Thread: f64c6,8c2d9914f1a1089b
X-Google-Thread: fc2a5,8c2d9914f1a1089b
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g4g2000hsf.googlegroups.com!not-for-mail
From: "Mike Gathergood, G4KFK" <mike.gathergood@googlemail.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio
Date: Sat, 07 Jul 2007 09:05:12 -0700
Organization: http://groups.google.com

```
Lines: 5
Message-ID: <1183824312.119733.21180@g4g2000hsf.googlegroups.com>
References: <468f9862$0$7122$88260bb3@free.teranews.com>
NNTP-Posting-Host: 82.0.190.39
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1183824312 8751 127.0.0.1 (7 Jul 2007 16:05:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 7 Jul 2007 16:05:12 +0000 (UTC)
In-Reply-To: <468f9862$0$7122$88260bb3@free.teranews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=82.0.190.39;
   posting-account=fTcdIQ0AAAC07gA1BA9FOc-RumYX4ZMS
Xref: g2news1.google.com uk.radio.amateur:119096 rec.radio.amateur.homebrew:13636

On 7 Jul, 15:35, "Polymath" <m...@privacy.net> wrote:
> Anybody interested in mutual development of some soggy biscuits

You are so in the wrong newsgroup  :-)




From 4839619523354131021
X-Google-Thread: fc2a5,fd725f1e373306dd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!newspeer2.se.telia.net!se.telia.net!masternews.telia.net.!
newsb.telia.net.POSTED!not-for-mail
Reply-To: "Charles" <tadaaa123**NOSPAM***@hotmail.com>
From: "Charles" <tadaaa123**NOSPAM***@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1386afdnmde38f8@corp.supernews.com>
Subject: Re: Novel source for copper antenna wire
Lines: 26
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Message-ID: <7tTji.3667$ZA.1707@newsb.telia.net>
Date: Sat, 07 Jul 2007 21:21:07 GMT
NNTP-Posting-Host: 81.227.196.38
X-Complaints-To: abuse@telia.com
X-Trace: newsb.telia.net 1183843267 81.227.196.38 (Sat, 07 Jul 2007 23:21:07 CEST)
NNTP-Posting-Date: Sat, 07 Jul 2007 23:21:07 CEST
Organization: Telia Internet
Xref: g2news1.google.com rec.radio.amateur.homebrew:13637

> Today, while perusing the wares at a local marine outfitting
> store, I came upon 300 foot reels of 20ga. 7-strand copper
```

> wire intended for use as "fishing cable".

Cable TV uses a multi-core cable with aluminum shield. If suspended above ground between houses then there is also a steel wire around it, at least in my area. The steel makes a good antenna, and a thumb-tack makes a good contact with the aluminum shield.

Fence-wire in our neighborhood makes a good 160-meter antenna, and it is already erected ;-)

Try loading your 80-metre TX into the telephone cable, providing it does not lead underground.

In Northern climates they have 2 parallel 20-metre long metal rod,s like a ships handrail, to stop snow sliding off the roof and burying passers-by. Go inside the roof space and connect to it.

There are loads of ready-made antennas without having to buy anything at all. Just use some of them when the neighbours are asleep (in this area that is during the day).

CK

From -213218121368566630
X-Google-Thread: f64c6,8c2d9914f1a1089b
X-Google-Thread: fc2a5,8c2d9914f1a1089b
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 07 Jul 2007 17:27:20 -0500
Message-Id: <ueg5m4-fdu.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: Re: Putting the Ham back into Ham Radio
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Date: Sat, 07 Jul 2007 17:25:02 -0500
References: <468f9862$0$7122$88260bb3@free.teranews.com>
<1183824312.119733.21180@g4g2000hsf.googlegroups.com>
Organization: Vast Right-Wing Conspiracy
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 12
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.15.125.52
X-Trace: sv3-Gsv+ABITrTnV8I8HLzOwuBaEkaesfywIUEFaFjoyGjVJsL8E/
Uha3U2NbQzvj19LknzbWmyQWAkttDb!
uBVnWwTrVLs1JtyRaynR3S4sKl7BnfxvLY5HhuGnPgxVZj32K37k/NDVeeAEg0vKLqJOB23zI8QY!

```
3YsGjTUfwQ6Q
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com uk.radio.amateur:119118 rec.radio.amateur.homebrew:13638

Mike Gathergood, G4KFK wrote:
> On 7 Jul, 15:35, "Polymath" <m...@privacy.net> wrote:
>> Anybody interested in mutual development of some soggy biscuits
>
> You are so in the wrong newsgroup  :-)

Right! We here use our grain to brew beer. Oh, wait...

--
Postulate a group whose intent is to destroy the United States from within
via anarchy and bankruptcy. The actions of the United States Congress are
completely consistent with the actions one would predict from such a group.


From 702282713571226933
X-Google-Thread: fc2a5,38e1af9b35388722
X-Google-Thread: 1109af,38e1af9b35388722
X-Google-Attributes: gidfc2a5,gid1109af,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-
sjc-10!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.swap
Subject: Re: FA:  Nice Variable Capacitors
Date: Sat, 07 Jul 2007 17:57:25 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1390a3bkltl8b1d@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <Kxsii.116440$Y_.36170@read1.cgocable.net>
In-Reply-To: <Kxsii.116440$Y_.36170@read1.cgocable.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 21
Xref: g2news1.google.com rec.radio.amateur.homebrew:13639 rec.radio.swap:16780

Norm VE3CZI wrote:
> Nice Variable Capacitors now on auction on ebay:

I hope whoever won that wants it because I really wanted it.  I bid and
then forgot to follow up.
```

It was the perfect fit for the VFO I am building.

Just another example of why I hate ebay.

If you posted it here it would have found a happy home and I would
gladly have paid twice what it went for.

Do you have another?

js

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

From -7812024021271005O
X-Google-Thread: fc2a5,1836fa0dc1da2743
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!
nx01.iad01.newshosting.com!newshosting.com!post01.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <4684e2cd$0$24717$4c368faf@roadrunner.com>
<S5mdnYoNNufIvhjbnZ2dnUVZ_sCinZ2d@web-ster.com>
<Q8bhi.469$eY.377@newssvr13.news.prodigy.net>
<4685b7b1$0$24759$4c368faf@roadrunner.com> <vSzhi.529$fw2.411@trnddc04>
Subject: Re: Demodulator
Date: Sat, 7 Jul 2007 21:25:35 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Lines: 63
Message-ID: <46903d0b$0$20597$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13640

"Norm Mann" <folder0735@hotmail.com> wrote in message
news:vSzhi.529$fw2.411@trnddc04...
>
> "Jimmie D" <GFENDER@carolina.rr.com> wrote in message
> news:4685b7b1$0$24759$4c368faf@roadrunner.com...
>>
>> "Joerg" <notthisjoergsch@removethispacbell.net> wrote in message
>> news:Q8bhi.469$eY.377@newssvr13.news.prodigy.net...
>>> Tim Wescott wrote:

>>>
>>>> Jimmie D wrote:
>>>>
>>>>> Revamping an old homebrew SW receiver I built about 30 years ago. Is
>>>>> there an IC that will serve as an AM SSB FM detector. The existing
>>>>> AM/SSB detector is on a board the size of a playing card.
>>>>>
>>>> You could probably twist some of the FM/IF detectors into doing that.
>>>> Many of them have RSSI outputs that go as the log of the signal
>>>> strength, I've seen literature that suggests you can block the DC from
>>>> that and feed an exponential stage to get AM detection with built-in
>>>> AGC. For SSB, if you switched out the quadrature filter for FM
>>>> detection and injected a BFO into the appropriate pin you could get
>>>> SSB.
>>>>
>>>> But if you're playing around with a board the size of a playing card,
>>>> why not build three optimized detectors, or get ambitious and slap down
>>>> a DSP with appropriate ADC and DAC resources?
>>>>
>>>
>>> But be careful with a DSP in a receiver. They require a clock and
>>> generate all kinds of RF noises. Might have to be in a can.
>>>
>>> Of course, a DSP can do all sorts of other stuff like DRM. Although I
>>> doubt DRM will ever make it into the market.
>>>
>> This old dog would have to learn some new tricks to implement DSP. I
>> thought I remembered seeing a chip somewhere that did SSb AM and FM.
>>
>> Tim's right there is enough room for three descrete detectors. I can
>> easily squeeze it all in if I redsign the board, Maybe a PLL circuit for
>> FM unless someone can suggest something more modern. Probably a special
>> purpose chip available that I am not familar with. I wanted to adFM so I
>> could use the rx with VHF/UHF converter. IF is 455Khz.
>
> Anybody remember back in the "old days" using a super-regen receiver?
> Centering the signal in the passband gave AM, tuning off to the side one
> could slope-detect for FM and if the regen control was set high enough to
> make the detector break into oscillation, (in essence, inserting a BFO)
> one could then detect CW/SB signals.
>
> Just reminiscing,
>
> -NM
>
>
>
Seems like not so long ago I built a little rush box to listen in on Lo band
VHF hiway patrol.

Jimmie

From -4757555792535452059
X-Google-Thread: f64c6,8c2d9914f1a1089b
X-Google-Thread: fc2a5,8c2d9914f1a1089b
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i13g2000prf.googlegroups.com!not-for-mail
From: Andrew VK3BFA <ablight@alphalink.com.au>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio
Date: Sun, 08 Jul 2007 00:37:42 -0700
Organization: http://groups.google.com
Lines: 30
Message-ID: <1183880262.212842.79550@i13g2000prf.googlegroups.com>
References: <468f9862$0$7122$88260bb3@free.teranews.com>
NNTP-Posting-Host: 218.215.147.211
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1183880262 23760 127.0.0.1 (8 Jul 2007 07:37:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 8 Jul 2007 07:37:42 +0000 (UTC)
In-Reply-To: <468f9862$0$7122$88260bb3@free.teranews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.4) Gecko/20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i13g2000prf.googlegroups.com; posting-host=218.215.147.211;
   posting-account=EWANPAwAAAAIMf8u_DoGHaMCx0gCEW5D
Xref: g2news1.google.com uk.radio.amateur:119131 rec.radio.amateur.homebrew:13641

On Jul 8, 12:35 am, "Polymath" <m...@privacy.net> wrote:

>
> Might we all act together to produce a series of soggy "biscuits" that could
> then be assembled Lego-like fashion to produce any rig or test equipment?

> Anybody interested in mutual development of some soggy biscuits is invited
> to reply to the author via these fora.
>
> --
> Posted via a free Usenet account fromhttp://www.teranews.com

OK......what planet have you been on for the last 40 years? - check
out a thing called the "integrated circuit" or "IC" for short.

These are wonderful devices, they come as little plastic blocks with
pins sticking out of them. You connect signal in/out, voltage, a few
extra components to set parameters, and there you have a functioning
electronic circuit....

Please, stop ranting about the decline of AR and start reading a few

contemporary textbooks, or browsing manufacturers sites (they actually
WANT you to use the things, so publish lots of free information and
"application notes"...) or search the internet...

Stop complaining so much about the demise of the "good old days" and
start moving into 2007........

Andrew VK3BFA.

```
From 6780091578619800659
X-Google-Thread: f64c6,8c2d9914f1a1089b
X-Google-Thread: fc2a5,8c2d9914f1a1089b
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nntpserver.com!zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-
v0.1!not-for-mail
From: "Testibus Torpidis" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <468f9862$0$7122$88260bb3@free.teranews.com>
<1183880262.212842.79550@i13g2000prf.googlegroups.com>
Subject: Re: Putting the Ham back into Ham Radio
Date: Sun, 8 Jul 2007 10:06:36 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Lines: 11
Message-ID: <46909cda$0$16314$88260bb3@free.teranews.com>
NNTP-Posting-Date: 08 Jul 2007 08:14:19 GMT
X-Complaints-To: abuse@teranews.com
X-Original-Lines: 8
Xref: g2news1.google.com uk.radio.amateur:119140 rec.radio.amateur.homebrew:13642
```

Beanie is from the planet Anus.

"Andrew VK3BFA" <ablight@alphalink.com.au> wrote in message
news:1183880262.212842.79550@i13g2000prf.googlegroups.com...
> OK......what planet have you been on for the last 40 years?

--
Posted via a free Usenet account from http://www.teranews.com

---

```
From 8395185456073464062
X-Google-Thread: f64c6,8c2d9914f1a1089b
```

```
X-Google-Thread: fc2a5,8c2d9914f1a1089b
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews6.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Icedove 1.5.0.12 (X11/20070606)
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio
References: <468f9862$0$7122$88260bb3@free.teranews.com>
<1183880262.212842.79550@i13g2000prf.googlegroups.com>
<46909cda$0$16314$88260bb3@free.teranews.com>
In-Reply-To: <46909cda$0$16314$88260bb3@free.teranews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 11
Message-ID: <bm7ki.12223$K9.7611@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcbojnnbnccjfojmcffepdnmpcaijfmaoemhfb
chnkkkmncpkjmgkenbbbabbebcpalogpnlgebbkdkdinbiflkjipceglampfojomlgcccebcdfdbbm
NNTP-Posting-Date: Sun, 08 Jul 2007 11:25:59 EDT
Organization: BellSouth Internet Group
Date: Sun, 08 Jul 2007 15:26:06 +0000
Xref: g2news1.google.com uk.radio.amateur:119196 rec.radio.amateur.homebrew:13643

Testibus Torpidis wrote:
> Beanie is from the planet Anus.
>
>
> "Andrew VK3BFA" <ablight@alphalink.com.au> wrote in message
> news:1183880262.212842.79550@i13g2000prf.googlegroups.com...
>> OK......what planet have you been on for the last 40 years?
>
>
>
Or would that be "URanus"?


From -2987173595776902114
X-Google-Thread: f64c6,8c2d9914f1a1089b
X-Google-Thread: fc2a5,8c2d9914f1a1089b
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 08 Jul 2007 15:01:20 -0500
Message-Id: <5ds7m4-73a.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
```

Subject: Re: Putting the Ham back into Ham Radio
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Date: Sun, 08 Jul 2007 15:01:09 -0500
References: <468f9862$0$7122$88260bb3@free.teranews.com>
<1183880262.212842.79550@i13g2000prf.googlegroups.com>
Organization: Vast Right-Wing Conspiracy
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 17
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.15.125.52
X-Trace: sv3-M87AvQZsbYSLd8K6QK86QIIDzn7NQKDXueSWl8QHag9Y7/XIWpxfdQGb6BA/
hc5bO+xx0SRrCMnoR/t!YLcugvO5JU/
J6GRilBzADQuNhhJ+Q5NoiYAm3mTrL12KMmK+eX0TwQLVfLNXEUfZhvmIF7jabNKu!rzZQ4d3N00D5
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com uk.radio.amateur:119240 rec.radio.amateur.homebrew:13644

Andrew VK3BFA wrote:
> On Jul 8, 12:35 am, "Polymath" <m...@privacy.net> wrote:
>> Might we all act together to produce a series of soggy "biscuits" that could
>> then be assembled Lego-like fashion to produce any rig or test equipment?
>
> OK......what planet have you been on for the last 40 years? - check
> out a thing called the "integrated circuit" or "IC" for short.

I'd been thinking for some time about doing a little experimenting that involved putting together a few functional blocks which were a little more involved than ICs, things like IF gain blocks and detectors and the like. Much faster to A/B test circuits that way.

--
Postulate a group whose intent is to destroy the United States from within
via anarchy and bankruptcy. The actions of the United States Congress are
completely consistent with the actions one would predict from such a group.

From -8366352262112141770
X-Google-Thread: fc2a5,24355473894c84d1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 08 Jul 2007 17:18:05 -0500
Newsgroups: rec.radio.amateur.homebrew
From: Ben Jackson <ben@ben.com>

Subject: Re: Mixing high side versus low side and (f1 - f2) versus (f1 + f2)
References: <1183426253.919571.158310@g4g2000hsf.googlegroups.com> <p-
mdnfCgSuQl7xfbnZ2dnUVZ_rrinZ2d@web-ster.com>
Message-ID: <slrnf92okt.2ump.ben@saturn.home.ben.com>
User-Agent: slrn/0.9.8.0 (FreeBSD)
Date: Sun, 08 Jul 2007 17:18:05 -0500
Lines: 13
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 67.189.64.253
X-Trace: sv3-fmrxReEcSabmhC3HN6vQhAzoZdCamOLDkSCrivClRWK1wumEo3tPYcnqK/qOF1/
vQz4eO26/jhEux2e!c/D6kzX5SeFIF6cKewBAbCov/
64o5XHIBZHOTMvowgPz3hvEyQK5SWCI7tuwzE6YUhHR7RD/51Uz!PSgRryhR6VnPfqHwUEKqgoc=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com rec.radio.amateur.homebrew:13645

On 2007-07-03, Tim Wescott <tim@seemywebsite.com> wrote:
>
> For _any_ IF/LO combination you should make a table of the possible
> mixing products of the first few harmonics of your RF range with
> _several_ harmonics of your LO range (most modern mixers generate _lots_

The guy who wrote rfsim99 also wrote "spur search" which will make this
table for you (same download, assuming you can find it!).

--
Ben Jackson AD7GD
<ben@ben.com>
http://www.ben.com/

From -5759004710427189741
X-Google-Thread: fc2a5,24355473894c84d1
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews9.bellsouth.net.POSTED!0ed2130f!not-for-mail
From: "Mike Lucas" <w5chr@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1183426253.919571.158310@g4g2000hsf.googlegroups.com> <p-
mdnfCgSuQl7xfbnZ2dnUVZ_rrinZ2d@web-ster.com>
<slrnf92okt.2ump.ben@saturn.home.ben.com>
Subject: Kepco power supply
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <1Zdki.21386$3a.19874@bignews9.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
okjdhlmeenidhihjdbdpiflmbcekedmfhojhikkbagflhcbokciljfffklannamdogonijlacmebcjpken
caminhklbchmdlkmjhkhgeliomjaoibibdiohbiacibbccjjnakfdmfeheeibgkpodebjebifnnkim
NNTP-Posting-Date: Sun, 08 Jul 2007 18:57:01 EDT
Organization: BellSouth Internet Group
Date: Sun, 8 Jul 2007 17:58:08 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:13646
X-Original-Bytes: 1402

Can anyone help on a manual or schematic for a Kepco SM36-15M supply? Kepco wants $ 100 for a manual... ouch! Google doesn't want to be helpful in this search.

73, Mike W5CHR
Memphis

From 3294879789498091275
X-Google-Thread: fc2a5,fd725f1e373306dd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out03b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny09.POSTED!0da99462!
not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1386afdnmde38f8@corp.supernews.com>
<7tTji.3667$ZA.1707@newsb.telia.net>
Subject: Re: Novel source for copper antenna wire
Lines: 46
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <86oki.6280$t05.5289@trndny09>
Date: Mon, 09 Jul 2007 10:29:24 GMT
NNTP-Posting-Host: 68.236.11.113
X-Complaints-To: abuse@verizon.net
X-Trace: trndny09 1183976964 68.236.11.113 (Mon, 09 Jul 2007 06:29:24 EDT)
NNTP-Posting-Date: Mon, 09 Jul 2007 06:29:24 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13647

Are you suggesting to load the transmitter RF output into the shield of the

existing live CATV drop cable? You'll wreak havoc with the network and
you'll destroy any trust that exists between the local ham community and the
Cable company. This is a horrible suggestion! Same goes for loading up the
phone line with RF

Ignore this one guys - be responsible!

Joe
W3JDR

"Charles" <tadaaa123**NOSPAM***@hotmail.com> wrote in message
news:7tTji.3667$ZA.1707@newsb.telia.net...
>> Today, while perusing the wares at a local marine outfitting
>> store, I came upon 300 foot reels of 20ga. 7-strand copper
>> wire intended for use as "fishing cable".
>
> Cable TV uses a multi-core cable with aluminum shield. If suspended above
> ground between houses then there is also a steel wire around it, at least
> in
> my area. The steel makes a good antenna, and a thumb-tack makes a good
> contact with the aluminum shield.
>
> Fence-wire in our neighborhood makes a good 160-meter antenna, and it is
> already erected ;-)
>
> Try loading your 80-metre TX into the telephone cable, providing it does
> not
> lead underground.
>
> In Northern climates they have 2 parallel 20-metre long metal rod,s like a
> ships handrail, to stop snow sliding off the roof and burying passers-by.
> Go
> inside the roof space and connect to it.
>
> There are loads of ready-made antennas without having to buy anything at
> all. Just use some of them when the neighbours are asleep (in this area
> that
> is during the day).
>
> CK
>
>

```
From 2153739200070543900
X-Google-Thread: fc2a5,fd725f1e373306dd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z28g2000prd.googlegroups.com!not-for-
mail
```

From: Arv <arvid.evans@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Novel source for copper antenna wire
Date: Mon, 09 Jul 2007 14:19:24 -0700
Organization: http://groups.google.com
Lines: 53
Message-ID: <1184015964.560499.11770@z28g2000prd.googlegroups.com>
References: <1386afdnmde38f8@corp.supernews.com>
   <7tTji.3667$ZA.1707@newsb.telia.net>
   <86oki.6280$t05.5289@trndny09>
NNTP-Posting-Host: 71.36.18.229
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1184015965 804 127.0.0.1 (9 Jul 2007 21:19:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 9 Jul 2007 21:19:25 +0000 (UTC)
In-Reply-To: <86oki.6280$t05.5289@trndny09>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.4) Gecko/20061201 Firefox/2.0.0.4 (Ubuntu-feisty),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: z28g2000prd.googlegroups.com; posting-host=71.36.18.229;
   posting-account=j8G-ZQ0AAAArGSmSv5U2nhz6Vo5TeLQN
Xref: g2news1.google.com rec.radio.amateur.homebrew:13648

On 9 Jul, 04:29, "W3JDR" <j...@roccis.com> wrote:
> Are you suggesting to load the transmitter RF output into the shield of the
> existing live CATV drop cable? You'll wreak havoc with the network and
> you'll destroy any trust that exists between the local ham community and the
> Cable company. This is a horrible suggestion! Same goes for loading up the
> phone line with RF
>
> Ignore this one guys - be responsible!
>
> Joe
> W3JDR
>
> "Charles" <tadaaa123**NOSPAM...@hotmail.com> wrote in message
>
> news:7tTji.3667$ZA.1707@newsb.telia.net...>> Today, while perusing the wares at a local marine outfitting
> >> store, I came upon 300 foot reels of 20ga. 7-strand copper
> >> wire intended for use as "fishing cable".
>
> > Cable TV uses a multi-core cable with aluminum shield. If suspended above
> > ground between houses then there is also a steel wire around it, at least
> > in
> > my area. The steel makes a good antenna, and a thumb-tack makes a good
> > contact with the aluminum shield.
>
> > Fence-wire in our neighborhood makes a good 160-meter antenna, and it is
> > already erected ;-)
>

> > Try loading your 80-metre TX into the telephone cable, providing it does
> > not
> > lead underground.
>
> > In Northern climates they have 2 parallel 20-metre long metal rod,s like a
> > ships handrail, to stop snow sliding off the roof and burying passers-by.
> > Go
> > inside the roof space and connect to it.
>
> > There are loads of ready-made antennas without having to buy anything at
> > all. Just use some of them when the neighbours are asleep (in this area
> > that
> > is during the day).
>
> > CK

With this suggestion solving the aerial problem then you need a good
ground to go with it. Maybe you could tie one end of a spool of wire
to a wad of paper and flush that down the toilet. When the spool
unwinds to the end you just connect that to the ground lug on your ham
rig and you have a long counterpoise wire installed underground. It
is even inside a protective conduit. What more could you ask for?
LOL

Arv

```
From -4341456246232132222
X-Google-Thread: fc2a5,8ca6bade36a26358,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr14.news.prodigy.net.POSTED!add6133f!not-for-
mail
Newsgroups: rec.radio.amateur.homebrew
Subject: New Yahoo Group
From: Gary@ removenospamandputkf9cm.com
X-Newsreader: News Rover 12.2.0 (http://www.NewsRover.com)
Lines: 12
Message-ID: <1BIki.19736$2v1.18206@newssvr14.news.prodigy.net>
NNTP-Posting-Host: 76.238.0.208
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr14.news.prodigy.net 1184060861 ST000 76.238.0.208 (Tue, 10 Jul
2007 05:47:41 EDT)
NNTP-Posting-Date: Tue, 10 Jul 2007 05:47:41 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
TSU[@IONWJSGC[TYGBHN__TDFZ\@@FXLM@TDOCQDJ@_@FN@ANVUEAE[YETZPIWWI[FCIZA^NBFXZ_D[BFN
TCNVPDTNTKHWXKB@X^B_OCJLPZ@ET_O[G\XSG@E\G[ZKVLBL^CJINM@I_KVIOR\T_M_AW_M[_BWU_HFA_]
@A_A^SGFAUDE_DFTMQPFWVW[QPJN
Date: Tue, 10 Jul 2007 09:47:41 GMT
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:13649

I started a new yahoo group. The purpose of the group is to facilitate the exchange of information. This includes informant ion on the restoration, modification, operation and the building replicas of the radios used by all countries involved in WWII. Items for sale or auction will be limited to military radios and parts.

You can join by going to this link

http://groups.yahoo.com/group/WWIIRadio/

TNX Gary, KF9CM

From 8443386650351986329
X-Google-Thread: 1109af,4252673b8244947,start
X-Google-Thread: 107ada,4252673b8244947,start
X-Google-Thread: 107cee,4252673b8244947,start
X-Google-Thread: f4e7d,4252673b8244947,start
X-Google-Thread: 1130cb,4252673b8244947,start
X-Google-Thread: fc2a5,4252673b8244947,start
X-Google-Thread: fc8b1,4252673b8244947,start
X-Google-Thread: 10b9c8,4252673b8244947,start
X-Google-Attributes: gid1109af,gid107ada,gid107cee,gidf4e7d,gid1130cb,gidfc2a5,gidfc8b1,gid10b9c8,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04b.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!nx01.iad01.newshosting.com!newshosting.com!198.186.194.251.MISMATCH!news-out.readnews.com!transit4.readnews.com!panix!bloom-beacon.mit.edu!senator-bedfellow.mit.edu!dreaderd!not-for-mail
Newsgroups: rec.radio.swap,rec.radio.amateur.misc,sci.electronics.misc,ne.forsale,ne.general,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.info
Subject: ** FLEA at MIT **   Sunday July 15th   Cambridge MA
Summary: Buy Sell SWAP Ham Radio Electronics Computers 9AM - 2PM
Expires: 7/21/07
Followup-To: poster
Approved: rec-radio-info@panix.com
Distribution: na
Organization: Massachvsetts Institvte of Technology
Keywords: Hamfest Fleamarket SWAPFEST Computers Ham Radio Electronics
From: w1gsl@mit.edu (Steven L. Finberg)
Date: 11 Jul 2007 08:05:08 GMT
Lines: 133
Message-ID: <46948f34$0$496$b45e6eb0@senator-bedfellow.mit.edu>
NNTP-Posting-Host: MINT-SQUARE.MIT.EDU
X-Trace: 1184141108 senator-bedfellow.mit.edu 496 18.7.18.71
Xref: g2news1.google.com rec.radio.swap:16802 rec.radio.amateur.misc:36868 sci.electronics.misc:16299 ne.forsale:1915 ne.general:16688

rec.radio.amateur.homebrew:13650 rec.radio.amateur.boatanchors:12113
rec.radio.info:398

This comming Sunday...

+++ Now even more Buyers Parking !!!
Thanks to Shire we have use of their new parking lot
across Albany St from the SWAPFEST !!!

!! ** More Buyers PARKING is available ** for details see
http://web.mit.edu/w1gsl/Public/flyer

*** !!!! In our Traditional GARAGE and the adjacent lot !!!! ****
so come rain or shine or super heat the Flea is on !!!

********* $1 buyers discount with hardcopy of this notice ********

COMPUTERS - ELECTRONICS - HAM RADIO - COMPUTERS - ELECTRONICS - HAM RADIO

FLEA all SUMMER at MIT
Sunday July 15th 2007
9AM-2PM

Come to the city for a great flea - plenty of free parking.

MIT's electronics and ham radio flea will take
place on the third Sunday of each month this summer,
April thru October.

There is tailgate space for over 600 sellers and
free, off-street parking for >2000 cars!

Buyers admission is $5 (you get $1 off if
you're lucky enough to have a copy of our ad)
and sellers spaces are $20 for the first and
$15 for each additional at the gate.

The flea will be held at the corner of Albany and
Main streets in Cambridge; right in the Kendall
Square area from 9AM to 2PM, with sellers set-up
time starting at 7AM.

SEASON PASS + Advance Seller Discount

A sellers discount season pass is available which
offers a 30% discount. By prepaying you get a
discount and earlier admission. See the registration form.

*** Attention Sellers ***
Prepaid vendors.. Season Pass or monthly,
will be admitted FIRST.
Separate lines will form prior to gate opening
for prepaid and nonprepaid vendors

!! RAIN or SHINE !! Have no fear of rain, a covered
well illuminated tailgate area is available for all
sellers (6'8" clearance).

Talk-in: 145.23- (PL 88.5) W1BOS/R and
W1XM/R-449.725/444.725 (PL 114.8/2A).

Sponsors: MIT Electronics Research Society
MIT UHF Repeater Association (W1XM)
MIT Radio Society (W1MX)
Harvard Wireless Club (W1AF)

For more info / advanced reservations 617 253 3776

********** $1 buyers discount with hard copy of this notice ************

<<<<<<<<<<<<<<<<<<<<<<<< cut here >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Mail the coupon below by the 5th of the month to be a Prepaid Vendor.

FLEA at MIT 2007 Rates

SELLERS

To use your prepaid spaces the named vendor MUST be present.
Rates include one admission per space.

Advance $17 First space
$12 Additional Spaces
Must be received by the 5th of the month.

Gate Admission $20 First Space
$15 Additional Spaces
Admission is after the prepaid vendors

Early Bird Buyer -Admission after the prepaid vendor line is admitted. ~ 7:15AM
** You may not sell. **
$15 per person at the gate.

****************************** cut here *******************************

FLEA at MIT 2007 Advance Space Application

____April ____May ____June ____ July ____Aug ___Sept ____Oct
@ $17 for the first each month + $12 each additional

Name ________________________ Call __________ $ Included______

Address ________________________ Phone __________ Make Check to
The MIT Radio Society

```
City  ____________________ State  _______  Zip  _______    PO Box 397082
                                                           Cambridge MA 02139
E-mail  _____________________________________________


*******************************************************************************
Steve Finberg                      W1GSL                         w1gsl@mit.edu
PO Box 82 MIT Br           Cambridge MA  02139-7082               617 258 3754
*******************************************************************************
```

```
From -4678991872951458928
X-Google-Thread: fc2a5,4252673b8244947
X-Google-Thread: fc8b1,4252673b8244947
X-Google-Thread: 10b9c8,4252673b8244947
X-Google-Attributes: gidfc2a5,gidfc8b1,gid10b9c8,public,usenet
X-Google-Language: GERMAN,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!panix!
rri.panix.com!robomod!not-for-mail
From: thesak <don.saklad@gmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.info
Subject: Re: ** FLEA at MIT ** Sunday July 15th Cambridge MA
Followup-To: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Date: Wed, 11 Jul 2007 13:04:48 EDT
Organization: http://groups.google.com
Lines: 5
Approved: RRI Admin <rec-radio-info-request@panix.com>
Message-ID: <1184167511.012608.128380@i38g2000prf.googlegroups.com>
References: <46948f34$0$496$b45e6eb0@senator-bedfellow.mit.edu>
NNTP-Posting-Host: panix3.panix.com
Mime-Version: 1.0
```

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Content-Type: text/plain; charset="us-ascii"
X-Trace: reader2.panix.com 1184173489 22205 166.84.1.3 (11 Jul 2007 17:04:49 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 11 Jul 2007 17:04:49 +0000 (UTC)
X-RRI-Policy: http://www.panix.com/~rram/usenet/rri/index.html
X-RRI-Info-1: Send submissions to             rec-radio-info@panix.com
X-RRI-Info-2: Send technical complaints to    rec-radio-info-request@panix.com
X-RRI-Info-3: Send complaints about policy to rec-radio-info-request@panix.com
X-Comment-1: The moderators do not necessarily agree or disagree with this
article.
X-Comment-2: Moderators do not verify the accuracy of posted information.
X-Comment-3: Acceptance does not convey approval of any external references.
X-Robomod: STUMP, ichudov@algebra.com (Igor Chudov), C++/Perl/Unix Consulting
X-Moderation-1: Hassle-Free commercial hosting of moderation sites available
X-Moderation-2: See http://www.algebra.com/~ichudov/stump
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; PPC Mac OS X Mach-O; en-US;
rv:1.8.1.4) Gecko/20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i38g2000prf.googlegroups.com; posting-host=24.41.5.215;
   posting-account=PNjbaQ0AAAC5thnAk87d7WsAgAad0XPS
Xref: g2news1.google.com rec.radio.amateur.homebrew:13651
rec.radio.amateur.boatanchors:12116 rec.radio.info:399

http://web.mit.edu/w1mx/www/swapfest/swapfest-2007.07.pdf
http://web.mit.edu/w1mx/
www/swapfest/swapfest-2007.07.pdf
http://www.google.com/search?hl=en&q=flea+mit



From 1407689434675079851
X-Google-Thread: fc2a5,845e7f9f92064c2c,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m3g2000hsh.googlegroups.com!not-for-
mail
From:  telcodev <telcodev@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Homemade piezo earpiece
Date: Thu, 12 Jul 2007 00:25:16 -0000
Organization: http://groups.google.com
Lines: 18
Message-ID: <1184199916.170012.123060@m3g2000hsh.googlegroups.com>
NNTP-Posting-Host: 63.228.105.98
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1184199916 20072 127.0.0.1 (12 Jul 2007 00:25:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 12 Jul 2007 00:25:16 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.4) Gecko/
20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
```

Complaints-To: groups-abuse@google.com
Injection-Info: m3g2000hsh.googlegroups.com; posting-host=63.228.105.98;
   posting-account=B-PZog0AAAAJn6gYNJZVdtb0kvRg8RL7
Xref: g2news1.google.com rec.radio.amateur.homebrew:13652

Hello,

Assuming I could made a nice rochelle salt crystal like the one shown here: http://seawhy.com/xlrs.html, any suggestions on how to proceed to make a piezo earpiece?

Some possible thoughts:
a. Spring clamp copper plates to 2 opposing surfaces and test with a multimeter for piezo effect, then super glue a malleus to the top plate and touch it to a foil drum. The plates are the electrodes.
b. Make a foil 'setting' for a small crystal, and touch the crystal to a foil drum. The 'setting' and the drum are the electrodes.
c. Load several small crystals into a shallow can and insert a copper plate with malleus [which touches a foil drum. The can and plate are the electrodes.

Joseph

From 519645903630997067
X-Google-Thread: fc2a5,c8c6bc315e42d49e,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst02.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr13.news.prodigy.net.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Mozilla/5.0 (Windows; U; WinNT4.0; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: PCR1500, with or without remote head?
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 15
Message-ID: <ROeli.2429$eY.1287@newssvr13.news.prodigy.net>
NNTP-Posting-Host: 75.26.173.136
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr13.news.prodigy.net 1184201009 ST000 75.26.173.136 (Wed, 11 Jul 2007 20:43:29 EDT)
NNTP-Posting-Date: Wed, 11 Jul 2007 20:43:29 EDT
Organization: SBC http://yahoo.sbc.com
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SCSYQN_@OPTMRT@[IZOBORTDEB\@PD\MNPWZKB]MPXHDUWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
TINTDDMVW[X\THOPXZRVOCJTUTPC_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM

Date: Thu, 12 Jul 2007 00:43:29 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13653

Hello Folks,

The PCR1500 is around $500, and $100 more if you want the remote head.
It's tough to get much info on that remote head. Heck, it's not even in
the manual, at least not the large pdf version on the Icom site. Is it
worth to have?

I am not too familiar with ham stores in the US yet, wish the ad section
of QST was on the web somewhere. Anyhow, one that seem to be large is
AES. Other suggestions?

--
Regards, Joerg

http://www.analogconsultants.com

From -4266493172249305442
X-Google-Thread: fc2a5,c8c6bc315e42d49e
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n60g2000hse.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PCR1500, with or without remote head?
Date: Wed, 11 Jul 2007 19:18:51 -0700
Organization: http://groups.google.com
Lines: 48
Message-ID: <1184206731.447844.287770@n60g2000hse.googlegroups.com>
References: <ROeli.2429$eY.1287@newssvr13.news.prodigy.net>
NNTP-Posting-Host: 63.73.218.130
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1184206731 7320 127.0.0.1 (12 Jul 2007 02:18:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 12 Jul 2007 02:18:51 +0000 (UTC)
In-Reply-To: <ROeli.2429$eY.1287@newssvr13.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Links (1.00pre14; Linux 2.6.13.2 i686; 80x25),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n60g2000hse.googlegroups.com; posting-host=63.73.218.130;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com rec.radio.amateur.homebrew:13654

Joerg wrote:
> Hello Folks,
>
> The PCR1500 is around $500, and $100 more if you want the remote head.

> It's tough to get much info on that remote head. Heck, it's not even in
> the manual, at least not the large pdf version on the Icom site. Is it
> worth to have?
>
> I am not too familiar with ham stores in the US yet, wish the ad section
> of QST was on the web somewhere. Anyhow, one that seem to be large is
> AES. Other suggestions?

Joerg -
  Not sure what this is doing on the homebrew group.

  I did briefly get to try an associate's PCR1500 at his house. He did not have the remote head but was controlling it from a laptop.

  I was very unimpressed with the way that local BCB and FM stations had images showing up and down and all around the SW and ham bands. Somehow I had expected some preselection.

  I believe that with an outboard preselector or even just some traps to filter out the local stations before they hit the radio, I would've been much better impressed. The PCR1500 wasn't much worse than a typical $100-$150 SW receiver in terms of image susceptability (our neighborhood I think is particularly bad for the US, but I understand it to be nowhere near as bad as many major European cities).

  I also have a RX-320 (Ten-Tec's computer controlled receiver) and while it is not completely immune to BCB interference and images it is a much more minor problem there. It's also true that the RX-320 is truly aimed at the SW market.

  The PCR1500 had a bazillion nifty computer-controlled features that my friend was showing me (esp scanning VHF and UHF channels). He was more of a scanner nut than a SW or ham listener, and he seemed positively delighted with the radio and all it's features and computer controls and scanning channels and ability to monitor multiple channels at once. He had some special computer software that decoded and monitored at least a couple of the local trunking systems.

  Like when I'm using my RX-320, I missed having real knobs. I'm guessing that the remote head actually provides some knobs (but have not seen it either!)

Tim.

From -8125077783140569
X-Google-Thread: f64c6,8c2d9914f1a1089b
X-Google-Thread: fc2a5,8c2d9914f1a1089b
X-Google-Attributes: gidf64c6,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g4g2000hsf.googlegroups.com!not-for-mail

From: Andrew VK3BFA <ablight@alphalink.com.au>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio
Date: Wed, 11 Jul 2007 22:56:41 -0700
Organization: http://groups.google.com
Lines: 96
Message-ID: <1184219801.409165.73900@g4g2000hsf.googlegroups.com>
References: <468f9862$0$7122$88260bb3@free.teranews.com>
   <1183880262.212842.79550@i13g2000prf.googlegroups.com>
   <5ds7m4-73a.ln1@remote.clifto.com>
NNTP-Posting-Host: 218.215.129.15
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1184219801 21637 127.0.0.1 (12 Jul 2007 05:56:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 12 Jul 2007 05:56:41 +0000 (UTC)
In-Reply-To: <5ds7m4-73a.ln1@remote.clifto.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.4) Gecko/20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=218.215.129.15;
   posting-account=EWANPAwAAAAIMf8u_DoGHaMCx0gCEW5D
Xref: g2news1.google.com uk.radio.amateur:119565 rec.radio.amateur.homebrew:13655

On Jul 9, 6:01 am, clifto <cli...@gmail.com> wrote:
> Andrew VK3BFA wrote:
> > On Jul 8, 12:35 am, "Polymath" <m...@privacy.net> wrote:

>
> I'd been thinking for some time about doing a little experimenting that
> involved putting together a few functional blocks which were a little
> more involved than ICs, things like IF gain blocks and detectors and
> the like. Much faster to A/B test circuits that way.
>

Yes. This is (usually) IC's on a PCB with the extra bits needed to get it to work. As long as you have the same impedance for each module, no worries. And the approach has merit - lacking sophisticated measuring equipment, its good to have a "reference" IF, RF, whatever module for A-B comparisons.

I think EMRFD covers this concept quite well....

There has NEVER been a better time to homebrew. We are not relying on war surplus from a global conflict anymore, and its pretty well dried up anyway. So many fascinating chipsets out there, a casual reading of any of the last 10 years of ARRL handbooks reveals this "systems engineering" approach - treat them like LEGGO blocks....

There is SO MUCH sophisticated good quality test equipment out there now - most industries are downsizing (gee, I love that phrase) - its cheaper to send a defective module off for repair (the spare automatically switches in on a fault condition) to the manufacturer than maintain highly skilled staff and expensive test gear. So, the test gear is being sold at RIDICULOUS prices. I recently bought a Chinese 500Mhz spectrum analyser for $500 - yeh, sure, not as good as a HP, (refuse to call them AGILENT) but then my 30 year old HP141 etc was badly showing its age and was out of calibration anyway.....

A good example - the AD9851 DDS chip . Wade through the pages of waffle, and it comes down to half the pins grounded, some more tied high, data in from a PC port on 3 lines, bias set by 1 resistor, a TTL clock module (prebuilt anyway) and a simple LPF on the ouput - voila, a 0-30Mhz sig gen/sweep gen/VFO with 1Hz increments, and crystal stability and accuracy. Doesn't need a complex PCB, can easily be paddyboarded/Manhattan style....

Go for it - don't be scared. The "good old days" were only in your head anyway, and it took the death of millions to provide us with that lovely war surplus precision mechanical engineering....what a terrible price to pay for a nice VFO capacitor and drive....

Times change - the Foundation license has transformed AR - yes, some idiots, but not nearly as many as the old timers noisily bemoaning their lost (and rose coloured) past.......all the dinosaurs will eventually die, do you want to be one? And getting an amateur ticket 30 years ago - how relevant is that now? - good to wallow in antique technology, but how about moving forward.

My club - its been bloody fantastic. The new F calls, on the committee, bring new skills and enthusiasm. They can organise a dinner out - the old timers cannot. They organise technical lectures - the old timers, with their "I did that 40 years ago" attitude don't. A long overdue breath of fresh air - should have happened 30 years ago, and would have except for the moaning and bitching of the "true" amateurs.

So saying that, I have been licensed for 36 years. I started homebrewing with valves I scavenged off the rubbish tip, as a kid of 12 I didn't have any money. First soldering iron was second hand, bought from the local radio club - in retrospect, sold at a fraction of its value to help a newcomer. Was mentored by WONDERFUL, true amateurs - generous with their time and knowledge. Are you? Carefully selecting the least leaky capacitors, measuring and marking old out of tolerance resistors to build something,anything, to explore radio. Even scavenging hookup wire from old washing machines and refrigerators on the tip.

Nowadays, still have a good collection of WW2 vintage gear for restoration - most of it semi vandalized by idiots doing "modifications" - I like it, nice BIG components, easy to see and work on. The classic 70's radios with tube back ends - easy to work on, parts more readily available than modern consumer stuff on the shelves currently.

But I also battle with SMD stuff - why, because that too is interesting - 1 chip does the work of a rackfull of valve gear. Its STILL the "magic of radio" - and I think a lot of us have got old and tired and grumpy and forgotten WHY we got into AR in the first place,

Go for it - NOTHING beats the thrill of learning, exploring,experimenting, and finally getting on the air and saying

"The rig here is homebrew OM"...

73 de Andrew VK3BFA.

```
From -9080053409979057187
X-Google-Thread: fc2a5,82bb1e07ddcd0343,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!n2g2000hse.googlegroups.com!not-for-mail
From:  "Gian, I7SWX" <i7swx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ITALY NOW OPERATING ON 70 MHz
Date: Thu, 12 Jul 2007 06:37:10 -0700
Organization: http://groups.google.com
Lines: 62
Message-ID: <1184247430.422392.28970@n2g2000hse.googlegroups.com>
NNTP-Posting-Host: 80.182.70.153
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1184247430 27529 127.0.0.1 (12 Jul 2007 13:37:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 12 Jul 2007 13:37:10 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n2g2000hse.googlegroups.com; posting-host=80.182.70.153;
   posting-account=UdnmUQ0AAABqWSw2iezMYLt5SVbNOulx
Xref: g2news1.google.com rec.radio.amateur.homebrew:13656
```

Hi All,

Finally, as of today July 12th, Italian Amateur Radio operators will be roaming around the 70 MHz band, although for a limited experimental period and limited frequencies spots. Please see below notice

73

Gian
I7SWX
F5VGU
W1-I7SWX
G-QRP #10241
I QRP #571
President Sezione ARI Cassano delle Murge BA =E2=80=93 Italy
Club Station IQ7MU

Italian amateur radio 70-MHz experimental campaign

- BREAKING NEWS -

Upon request of Luca Ferrara IK0YYY, the Italian Ministry of Communications, in coordination with the Ministry of Defense, is willing to kindly authorize an amateur radio experimental campaign on the 70-MHz band (4 meters) up to December 31, 2007. Activities will however only be possible after the authorization has actually been signed. Such campaign is being carried out under the technical coordination of Piero Tognolatti I0KPT, Full Professor of the Electromagnetic Fields Group and Director of the Electrical Engineering and Information Theory Department of the University of l=E2=80=99Aquila.

The technical parameters are:

=E2=80=A2 Modes: all (SSB, CW, AM, FM, RTTY, digital modes, etc.)
=E2=80=A2 Frequencies:
- 70.100 MHz =EF=82=B1 12.5 kHz
- 70.200 MHz =EF=82=B1 12.5 kHz
- 70.300 MHz =EF=82=B1 12.5 kHz

=E2=80=A2 Maximum RF power: 25W EIRP
=E2=80=A2 Operational area: the whole Italian territory except for a 30 km strip from the Austria, France and Switzerland borders
=E2=80=A2 Antenna types: omnidirectional and directional

The experimental campaign, whose results will be published after its conclusion, is open to all Italian radioamateurs.

A beacon transmitting on frequency 70.088 MHz (mark) with FSK modulation (500-Hz upward shift) is shortly going to be installed. This is at the very low edge of the authorized band.

We wish to express our warm thanks to the Italian Ministry of Communications (Ing. F. Troisi and Dr. A. Cascio) and to the Italian Ministry of Defense, who, despite the administrative and operational hurdles, have once more given the Italian radioamateurs a clear sign of esteem and credibility. Sincere thanks are also given to the Universit=C3=A0 of L'Aquila (Prof. P. Tognolatti) for its exquisite and effective cooperation.

Luca Ferrara IK0YYY =E2=80=93 Antonio Vernucci I0JX

```
From 9167260306307234359
X-Google-Thread: fc2a5,c8c6bc315e42d49e
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr12.news.prodigy.net.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Mozilla/5.0 (Windows; U; WinNT4.0; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PCR1500, with or without remote head?
References: <ROeli.2429$eY.1287@newssvr13.news.prodigy.net>
<1184206731.447844.287770@n60g2000hse.googlegroups.com>
In-Reply-To: <1184206731.447844.287770@n60g2000hse.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 86
Message-ID: <Jxrli.38491$Um6.23056@newssvr12.news.prodigy.net>
NNTP-Posting-Host: 75.26.183.3
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr12.news.prodigy.net 1184253161 ST000 75.26.183.3 (Thu, 12 Jul 2007
11:12:41 EDT)
NNTP-Posting-Date: Thu, 12 Jul 2007 11:12:41 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
OX[MR\OGRZRUBRH]^JKBOW@@YJ_ZTB\MV@BT]UEK@YUDUWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
TINTDDMVW[X\THOPXZRVOCJTUTPC\_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Thu, 12 Jul 2007 15:12:41 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13657
```

Tim Shoppa wrote:

```
> Joerg wrote:
>
>>Hello Folks,
>>
>>The PCR1500 is around $500, and $100 more if you want the remote head.
>>It's tough to get much info on that remote head. Heck, it's not even in
>>the manual, at least not the large pdf version on the Icom site. Is it
>>worth to have?
>>
>>I am not too familiar with ham stores in the US yet, wish the ad section
>>of QST was on the web somewhere. Anyhow, one that seem to be large is
>>AES. Other suggestions?
>
>
```

> Joerg -
>   Not sure what this is doing on the homebrew group.
>

Well, it's the only one I am subscribed to but I'll look for a more appropriate one. Also, I figured that folks who still build their own stuff (I do) would naturally gain more insight about commercial hardware than "plug-and-play" users. Because they can pinpoint effects to circuitry deficiencies just like you did below.

>   I did briefly get to try an associate's PCR1500 at his house. He did
> not have the remote head but was controlling it from a laptop.
>
>   I was very unimpressed with the way that local BCB and FM stations
> had images showing up and down and all around the SW and ham bands.
> Somehow I had expected some preselection.
>

A fat mixer or even some LC filtering probably wasn't in the cards at that price level. But I could live with it because I mainly want to use it for EMI hunting. Being able to listen to noise makes it sometimes easier to find the root cause. Most spectrum analyzers feature only a rather crude AM demod output, or none at all.

So, for example I'd probably roll a 123MHz bandstop for work here in the lab because the local runway is almost next the house and 123.05MHz is where they call in or key the runway lights on at night. With clients at other airports it's similar, I can look up their frequencies and build a filter before heading out.

>   I believe that with an outboard preselector or even just some traps
> to filter out the local stations before they hit the radio, I would've
> been much better impressed. The PCR1500 wasn't much worse than a
> typical $100-$150 SW receiver in terms of image susceptability (our
> neighborhood I think is particularly bad for the US, but I understand
> it to be nowhere near as bad as many major European cities).
>
>   I also have a RX-320 (Ten-Tec's computer controlled receiver) and
> while it is not completely immune to BCB interference and images it is
> a much more minor problem there. It's also true that the RX-320 is
> truly aimed at the SW market.
>
>   The PCR1500 had a bazillion nifty computer-controlled features that
> my friend was showing me (esp scanning VHF and UHF channels). He was
> more of a scanner nut than a SW or ham listener, and he seemed
> positively delighted with the radio and all it's features and computer
> controls and scanning channels and ability to monitor multiple
> channels at once. He had some special computer software that decoded
> and monitored at least a couple of the local trunking systems.
>

I guess that's why they still block cell bands for the US. Wish they didn't because I have to check for EMI seemlessly up to 1GHz.

> Like when I'm using my RX-320, I missed having real knobs. I'm
> guessing that the remote head actually provides some knobs (but have
> not seen it either!)
>

Same here. But when you have to schlepp it along on flights the small size and low weight is a real advantage and the laptop has to come along anyhow, usually.

--
Regards, Joerg

http://www.analogconsultants.com

From -7589732958264579485
X-Google-Thread: fc2a5,b072bbae52a2bfd2,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g4g2000hsf.googlegroups.com!not-for-mail
From: francesco.messineo@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: question on LP filter
Date: Thu, 12 Jul 2007 13:17:04 -0700
Organization: http://groups.google.com
Lines: 32
Message-ID: <1184271424.548662.168650@g4g2000hsf.googlegroups.com>
NNTP-Posting-Host: 213.155.200.58
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1184271424 2532 127.0.0.1 (12 Jul 2007 20:17:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 12 Jul 2007 20:17:04 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.12) Gecko/20060216 Debian/1.7.12-1.1ubuntu2,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=213.155.200.58;
   posting-account=w4OzSA0AAAA-nsIbBzg30RUzZ11eeSVV
Xref: g2news1.google.com rec.radio.amateur.homebrew:13658

Hello,

I'm modifying a 28-50 MHz transverter to work the new (for us) 70 MHz band, not having a spectrum analyzer I'm trying to get as close as possible with substitutions. I have a doubt about the low pass filter after the final amplifier:
on the arrl handbook I have found formulas for pi-filters:

```
----|----L------|--------
   =C/2     =C/2    R
----|-----------|---------
```

(I hope the ascii art is readable)

L=R/(pi Fc)   C=1/(pi Fc R)

Now the 50 MHz original filter is composed of three cascaded filters as the one above, the capacitor are 47pF at the two ends and 100 pF the two middle ones, which is consistent with the formula as the middle ones can be actually seen as two parallel capacitor for the cascaded pi-cells, the formula indicates an Fc of about 63 MHz with these values, which seems correct.
The inductors are 6 turns, internal diameter 6 mm, enameled 0.8 mm wire, no spaces between turns for the two "external" inductors and 7 turns same diameter for the internal one.
These inductors should have an inductance of 0.17uH the 6 turns ones and 0.21 uH the 7 turns one and the formula don't agree with these values, can anyone explain where I'm wrong?
Thanks in advance

Francesco IZ8DWF

From 5025419120253611046
X-Google-Thread: fc2a5,44c2dfaa77a047e6,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe12.lga.POSTED!53ab2750!not-for-mail
From: Jeff James <w2nbc@optonline.net>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Buy + Sell your Tube Gear!
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 6
Message-ID: <7LBli.100$Fp7.21@newsfe12.lga>
Date: Thu, 12 Jul 2007 22:49:39 -0400
NNTP-Posting-Host: 68.196.6.3
X-Complaints-To: abuse@cv.net
X-Trace: newsfe12.lga 1184294979 68.196.6.3 (Thu, 12 Jul 2007 19:49:39 MST)
NNTP-Posting-Date: Thu, 12 Jul 2007 19:49:39 MST
Organization: Optimum Online
Xref: g2news1.google.com rec.radio.amateur.homebrew:13660

The Boatanchor Classifieds..

Free classifieds dedicated to vintage Amateur Radio..

http://www.dealamerica.com/deal/cgi-bin/ads/bcads.cgi

Thanks for your support

```
From -3713449626352094698
X-Google-Thread: fc2a5,b072bbae52a2bfd2
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n2g2000hse.googlegroups.com!not-for-
mail
From:  francesco.messineo@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: question on LP filter
Date: Fri, 13 Jul 2007 01:24:33 -0700
Organization: http://groups.google.com
Lines: 38
Message-ID: <1184315073.095129.90720@n2g2000hse.googlegroups.com>
References: <1184271424.548662.168650@g4g2000hsf.googlegroups.com>
   <mhnd9390po9lcl1dsvp41cekmd61cpi3dc@4ax.com>
NNTP-Posting-Host: 213.155.200.58
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1184315073 29616 127.0.0.1 (13 Jul 2007 08:24:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 13 Jul 2007 08:24:33 +0000 (UTC)
In-Reply-To: <mhnd9390po9lcl1dsvp41cekmd61cpi3dc@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.12) Gecko/
20060216 Debian/1.7.12-1.1ubuntu2,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n2g2000hse.googlegroups.com; posting-host=213.155.200.58;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:13661
```

Hi Allison,

On 13 Lug, 04:13, no.s...@no.uce.bellatlantic.net wrote:

> Generally if it's two cascaded 1/4wave sections as a half wave filter
> they are identical. However the designer may also have the filter
> going from 50ohms to some other non 50 ohm impedence.
> It's not uncommon to see that.   Also the middle cap for the two
> sections usually is the some of the two end caps if the sections
> were viewed in isolation.
>
> In most cases when I encounter that I scale the values by 50/70 (.714)
> so that the 47 pf becomes around 33 and the 100pf around 68 and same
> for the coils. That maintains the same relationships and impedences
> overall.

Actually I found my mistake, the formula I was using for inductance required the external coil diameter and I was using the internal diameter, so everything is clear now.

For instance the values you suggest are just right even calculating with the formulas for a scaled cutoff frequency of about 90 MHz.

By the way, this filter is clearly for 50 ohms both input and output, one side is the antenna and the other side is the output impedance adapter filter of the final transistor.

Now the question is if I should try to use the same final (and driver) transistor of the original 50 MHz transverter (2sc2166 driver and 2sc1969 final) which are 27 MHz transistor (working fine at 50 MHz).

On the datasheets I have been able to find there's no indication of their ft.

I have a better final transistor but it would require me to move the amplifier part outside of the original box (different case).

Thanks and 73

Francesco   IZ8DWF

From -1473818402340475306
X-Google-Thread: f849b,cc514c32d4d6d644,start
X-Google-Thread: fc2a5,cc514c32d4d6d644,start
X-Google-Thread: 1118be,cc514c32d4d6d644,start
X-Google-Attributes: gidf849b,gidfc2a5,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out03a.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!news-in-02.newsfeed.easynews.com!easynews.com!easynews!sn-xt-sjc-03!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.components
Subject: Need sources for pot with planetary drive
Date: Fri, 13 Jul 2007 09:12:31 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <139f22h91ghhna7@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 19
Xref: g2news1.google.com comp.arch.embedded:49392 rec.radio.amateur.homebrew:13662 sci.electronics.components:16902

Greetings:

Please view these photos of a three-turn planetary drive
pot that uses a conventional "stackpot" formfactor at
http://www.cybertheque.org/homebrew/rcvr/images/antennas/pot.jpg
Resistance = 1K

It was made in 1966 by CTS; stampings: 36129 137.6637

Does anyone recognize this pot technology? Any suppliers
nowadays? I need the form factor for modifications to antenna
rotator assemblies in a space that does not permit using
larger multi-turn pots and using trimmer versions is not
sufficiently robust.

Regards,

Michael
msg _at_ cybertheque _dot_ org

From 8238506102513385530
X-Google-Thread: f849b,cc514c32d4d6d644
X-Google-Thread: fc2a5,cc514c32d4d6d644
X-Google-Thread: 1118be,cc514c32d4d6d644
X-Google-Attributes: gidf849b,gidfc2a5,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr23.news.prodigy.net.POSTED!6d1e6571!not-for-
mail
From: "HapticZ" <hapticz@sbcglobal.net>
Newsgroups:
comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.components
References: <139f22h91ghhna7@corp.supernews.com>
Subject: Re: Need sources for pot with planetary drive
Lines: 30
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <3uMli.26823$C96.21955@newssvr23.news.prodigy.net>
NNTP-Posting-Host: 75.5.203.43
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr23.news.prodigy.net 1184338943 ST000 75.5.203.43 (Fri, 13 Jul 2007
11:02:23 EDT)
NNTP-Posting-Date: Fri, 13 Jul 2007 11:02:23 EDT
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
[[PAPDON]JVSC\LXMRMD]_\@VR]^@B@MCPWZKB]MPXHTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Fri, 13 Jul 2007 11:02:21 -0400
Xref: g2news1.google.com comp.arch.embedded:49394 rec.radio.amateur.homebrew:13663

sci.electronics.components:16904

i remember these used to have slippage problems at the ball to shaft (after
a few hundred rotations) and required feedback looped mechanical drives to
accurately position anything they were used to control.

try something new!

"msg" <msg@_cybertheque.org_> wrote in message
news:139f22h91ghhna7@corp.supernews.com...
> Greetings:
>
> Please view these photos of a three-turn planetary drive
> pot that uses a conventional "stackpot" formfactor at
> http://www.cybertheque.org/homebrew/rcvr/images/antennas/pot.jpg
> Resistance = 1K
>
> It was made in 1966 by CTS; stampings: 36129 137.6637
>
> Does anyone recognize this pot technology? Any suppliers
> nowadays? I need the form factor for modifications to antenna
> rotator assemblies in a space that does not permit using
> larger multi-turn pots and using trimmer versions is not
> sufficiently robust.
>
> Regards,
>
> Michael
> msg _at_ cybertheque _dot_ org

```
From 4841101893551885639
X-Google-Thread: fc2a5,fd725f1e373306dd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m3g2000hsh.googlegroups.com!not-for-
mail
From:  terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Novel source for copper antenna wire
Date: Fri, 13 Jul 2007 08:25:40 -0700
Organization: http://groups.google.com
Lines: 64
Message-ID: <1184340340.254250.52740@m3g2000hsh.googlegroups.com>
References: <1386afdnmde38f8@corp.supernews.com>
   <7tTji.3667$ZA.1707@newsb.telia.net>
   <86oki.6280$t05.5289@trndny09>
NNTP-Posting-Host: 142.162.129.19
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
```

```
X-Trace: posting.google.com 1184340340 6484 127.0.0.1 (13 Jul 2007 15:25:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 13 Jul 2007 15:25:40 +0000 (UTC)
In-Reply-To: <86oki.6280$t05.5289@trndny09>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m3g2000hsh.googlegroups.com; posting-host=142.162.129.19;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:13664

On Jul 9, 8:29 am, "W3JDR" <j...@roccis.com> wrote:
> Are you suggesting to load the transmitter RF output into the shield of the
> existing live CATV drop cable? You'll wreak havoc with the network and
> you'll destroy any trust that exists between the local ham community and the
> Cable company. This is a horrible suggestion! Same goes for loading up the
> phone line with RF
>
> Ignore this one guys - be responsible!
>
> Joe
> W3JDR
>
> "Charles" <tadaaa123**NOSPAM...@hotmail.com> wrote in message
>
> news:7tTji.3667$ZA.1707@newsb.telia.net...
>
>
>
> >> Today, while perusing the wares at a local marine outfitting
> >> store, I came upon 300 foot reels of 20ga. 7-strand copper
> >> wire intended for use as "fishing cable".
>
> > Cable TV uses a multi-core cable with aluminum shield. If suspended above
> > ground between houses then there is also a steel wire around it, at least
> > in
> > my area. The steel makes a good antenna, and a thumb-tack makes a good
> > contact with the aluminum shield.
>
> > Fence-wire in our neighborhood makes a good 160-meter antenna, and it is
> > already erected ;-)
>
> > Try loading your 80-metre TX into the telephone cable, providing it does
> > not
> > lead underground.
>
> > In Northern climates they have 2 parallel 20-metre long metal rod,s like a
> > ships handrail, to stop snow sliding off the roof and burying passers-by.
> > Go
> > inside the roof space and connect to it.
>
> > There are loads of ready-made antennas without having to buy anything at
```

> > all. Just use some of them when the neighbours are asleep (in this area
> > that
> > is during the day).
>
> > CK- Hide quoted text -
>
> - Show quoted text -

I am not a ham; but got a response from a G amateur who confirmed he
used plastic coated steel cored clothesline wire for his antennae in
northern Britain.
He mentioned he was located in a fairly windy area and said that even
though the plastic eventually cracked and the wire corroded it lasted
quite a few years and was strong and reasonably cheap.
For occasional 'quick and dirty' receiving I capacitively couple my
receiver to our steel cored clothesline (all of 6 feet above ground!)
by wrapping some turns of wire around it. BTW I must go and bring in
the towels drying on it!
Have also used the steel messenger wire stripped/salvaged from
scrapped cable TV drops. Cable techs sometimes just abandon it and or
will give you the old when they install a new replacement drop.
Cheers.

```
From -8891362363346586183
X-Google-Thread: fc2a5,a6ed0bedf5b5b736
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n60g2000hse.googlegroups.com!not-for-
mail
From:  terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Trying to identify receiver.
Date: Fri, 13 Jul 2007 08:30:37 -0700
Organization: http://groups.google.com
Lines: 34
Message-ID: <1184340637.115097.125630@n60g2000hse.googlegroups.com>
References: <468f38dd@clear.net.nz>
NNTP-Posting-Host: 142.162.129.19
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1184340637 7342 127.0.0.1 (13 Jul 2007 15:30:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 13 Jul 2007 15:30:37 +0000 (UTC)
In-Reply-To: <468f38dd@clear.net.nz>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n60g2000hse.googlegroups.com; posting-host=142.162.129.19;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:13665
```

On Jul 7, 4:55 am, cliff wright <c.c.wri...@paradise.net.nz> wrote:
> Good Day All!
>
> Have recently aquired a "homebrew" receiver which I am trying to upgrade
> and fully restore to working order.
> In the back of my mind I am quite sure that it was a published design
> possibly in "Electronics Australia" or similar back in the 1960's or
> early 70's.
> It is a 6 valve/tube design using an ECF82 first mixer/oscillator (1st
> if about 4 Mhz)
> , a 6BE6 Pentagrid second mixer/osc, originally with varactor fine
> tuning down to 455 KHz. 2nd oscillator on about 4.5 Mhz.
> It then has 2 stages of 455 KHz IF originally using EF183's with 2 IF
> transformers per stage, a total of 10 tuned circuits at 455 Khz.
> This is followed by a 6BE6 product detector/BFO (Drake style) or a diode
> for AM rception and an ECL82 for audio stage and output.
> It has 4 bands from about 3 MHz to 30 MHz.
> Does any one remember coming across this circuit?
> It has some rather eccentric features like IF neutalisation and a VERY
> lossy coupling between IF stages.
> Any information gratefully received as I would like to
> 1. find an original circuit.
> and
> 2. Find out why some of the peculiar design details were used.
> Hope it rings a bell with someone.
>
> 73's Cliff Wright ZL1BDA ex G3NIA

No: But I vaguely remember a QST article of the 1950s? about a
receiever that used many 'stagger tuned'? IF circuits to get bandwidth
suitable for amateur work? Also IIRC it was an American husband-wife
team who wrote the article?
Terry

From -353795519471366272
X-Google-Thread: f849b,cc514c32d4d6d644
X-Google-Thread: fc2a5,cc514c32d4d6d644
X-Google-Thread: 1118be,cc514c32d4d6d644
X-Google-Attributes: gidf849b,gidfc2a5,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n2g2000hse.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.components
Subject: Re: Need sources for pot with planetary drive
Date: Fri, 13 Jul 2007 12:38:20 -0700
Organization: http://groups.google.com
Lines: 24
Message-ID: <1184355500.197655.253270@n2g2000hse.googlegroups.com>

```
References: <139f22h91ghhna7@corp.supernews.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1184355500 16059 127.0.0.1 (13 Jul 2007 19:38:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 13 Jul 2007 19:38:20 +0000 (UTC)
In-Reply-To: <139f22h91ghhna7@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n2g2000hse.googlegroups.com; posting-host=170.121.15.35;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com comp.arch.embedded:49406 rec.radio.amateur.homebrew:13666
sci.electronics.components:16907

On Jul 13, 10:12 am, msg <msg@_cybertheque.org_> wrote:
> Greetings:
>
> Please view these photos of a three-turn planetary drive
> pot that uses a conventional "stackpot" formfactor athttp://www.cybertheque.org/
homebrew/rcvr/images/antennas/pot.jpg
> Resistance = 1K
>
> It was made in 1966 by CTS; stampings: 36129 137.6637
>
> Does anyone recognize this pot technology? Any suppliers
> nowadays? I need the form factor for modifications to antenna
> rotator assemblies in a space that does not permit using
> larger multi-turn pots and using trimmer versions is not
> sufficiently robust.

Wow, I had seen those in the past but not for many many years.

If you are truly updating some rotators, there are some articles in
QST, CQ, 73, etc. from the past 20-30 years on doing it using
something other than 360-degree pots. Some of them use essentially
homebrew shaft encoders.

Tim.




From 3972331120928407063
X-Google-Thread: f849b,cc514c32d4d6d644
X-Google-Thread: fc2a5,cc514c32d4d6d644
X-Google-Thread: 1118be,cc514c32d4d6d644
X-Google-Attributes: gidf849b,gidfc2a5,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z28g2000prd.googlegroups.com!not-for-
mail
From:  co_farmer@yahoo.com
```

```
Newsgroups:
comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.components
Subject: Re: Need sources for pot with planetary drive
Date: Fri, 13 Jul 2007 13:03:28 -0700
Organization: http://groups.google.com
Lines: 46
Message-ID: <1184357008.075867.168400@z28g2000prd.googlegroups.com>
References: <139f22h91ghhna7@corp.supernews.com>
   <3uMli.26823$C96.21955@newssvr23.news.prodigy.net>
NNTP-Posting-Host: 72.0.177.83
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1184357008 20236 127.0.0.1 (13 Jul 2007 20:03:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 13 Jul 2007 20:03:28 +0000 (UTC)
In-Reply-To: <3uMli.26823$C96.21955@newssvr23.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.4)
Gecko/20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: z28g2000prd.googlegroups.com; posting-host=72.0.177.83;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com comp.arch.embedded:49408 rec.radio.amateur.homebrew:13667
sci.electronics.components:16909

On Jul 13, 8:02 am, "HapticZ" <hapt...@sbcglobal.net> wrote:
> i remember these used to have slippage problems at the ball to shaft (after
> a few hundred rotations)  and required feedback looped mechanical drives to
> accurately position anything they were used to control.
>
> try something new!
>
> "msg" <msg@_cybertheque.org_> wrote in message
>
> news:139f22h91ghhna7@corp.supernews.com...
>
> > Greetings:
>
> > Please view these photos of a three-turn planetary drive
> > pot that uses a conventional "stackpot" formfactor at
> >http://www.cybertheque.org/homebrew/rcvr/images/antennas/pot.jpg
> > Resistance = 1K
>
> > It was made in 1966 by CTS; stampings: 36129 137.6637
>
> > Does anyone recognize this pot technology? Any suppliers
> > nowadays? I need the form factor for modifications to antenna
> > rotator assemblies in a space that does not permit using
> > larger multi-turn pots and using trimmer versions is not
> > sufficiently robust.
>
> > Regards,
>
```

> > Michael
> > msg _at_ cybertheque _dot_ org

I remember them, also, and the slippage. I used to lube them to make them work better. They didn't.

I now know they must never be lubed and must be kept really clean. They work because of the friction between the shaft, the ball and the housing. Our pick-and place machine, used to place SMT components on circuit boards, uses the same technology to convert rotary motion to very accurate linear motion. The wheels and shaft must be kept very clean, or we get positioning errors.

I have no clue about the current source of the devices, but probably have a few in the junk box!

Paul, KD7HB

From -7728668069554751834
X-Google-Thread: fc2a5,845e7f9f92064c2c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-mail
From: lw1ecp <danyperez1@yahoo.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homemade piezo earpiece
Date: Fri, 13 Jul 2007 23:30:20 -0700
Organization: http://groups.google.com
Lines: 4
Message-ID: <1184394620.035119.273010@q75g2000hsh.googlegroups.com>
References: <1184199916.170012.123060@m3g2000hsh.googlegroups.com>
NNTP-Posting-Host: 200.82.79.204
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1184394620 17602 127.0.0.1 (14 Jul 2007 06:30:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 14 Jul 2007 06:30:20 +0000 (UTC)
In-Reply-To: <1184199916.170012.123060@m3g2000hsh.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; MEGAUPLOAD 1.0),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q75g2000hsh.googlegroups.com; posting-host=200.82.79.204;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:13668

I guess a look at the guts of an old piezo tweeter could give you a hand. Or maybe, an old old crystal phonographic pickup?. An ultrasonic cleaner perhaps?.

```
From 897611186592742225
X-Google-Thread: f849b,cc514c32d4d6d644
X-Google-Thread: fc2a5,cc514c32d4d6d644
X-Google-Thread: 1118be,cc514c32d4d6d644
X-Google-Attributes: gidf849b,gidfc2a5,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!
newscon02.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr23.news.prodigy.net.POSTED!6d1e6571!not-for-
mail
From: "HapticZ" <hapticz@sbcglobal.net>
Newsgroups:
comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.components
References: <139f22h91ghhna7@corp.supernews.com>
<1184355500.197655.253270@n2g2000hse.googlegroups.com>
Subject: Re: Need sources for pot with planetary drive
Lines: 46
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <eg3mi.27733$C96.9488@newssvr23.news.prodigy.net>
NNTP-Posting-Host: 75.6.11.125
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr23.news.prodigy.net 1184415882 ST000 75.6.11.125 (Sat, 14 Jul 2007
08:24:42 EDT)
NNTP-Posting-Date: Sat, 14 Jul 2007 08:24:42 EDT
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
[[PAPDCA[S@CRVH[ZJIBO[TDFZ\@@FXLM@TDOCQDJ@_@FNTBLNTC@AWZWDXZXQ[K\FFSKCVM@F_N_DOBWV
WG__LG@VVOIPLIGX\
\BU_B@\P\PFX\B[APHTWAHDCKJF^NHD[YJAZMCY_CWG[SX\Y]^KC\HSZRWSWKGAY_PC[BQ[BXAS\F\
\@DMTLFZFUE@\VL
Date: Sat, 14 Jul 2007 08:24:41 -0400
Xref: g2news1.google.com comp.arch.embedded:49442 rec.radio.amateur.homebrew:13669
sci.electronics.components:16914
```

agreed, i have used pc mouse encoders with a hacked mouse circuit board for various projects.

2 axis, three butttons , plenty of easy to use software, even write your own visual basic

can even determine direction and speeds!

its all simple enough and uses standard rs232 ports.

mouse click buttons can be used to determine limit positions at extreme points

the newer mice with some 6 or 7 variables can do lotsa stuff!

```
"Tim Shoppa" <shoppa@trailing-edge.com> wrote in message
news:1184355500.197655.253270@n2g2000hse.googlegroups.com...
> On Jul 13, 10:12 am, msg <msg@_cybertheque.org_> wrote:
> > Greetings:
> >
> > Please view these photos of a three-turn planetary drive
> > pot that uses a conventional "stackpot" formfactor
athttp://www.cybertheque.org/homebrew/rcvr/images/antennas/pot.jpg
> > Resistance = 1K
> >
> > It was made in 1966 by CTS; stampings: 36129 137.6637
> >
> > Does anyone recognize this pot technology? Any suppliers
> > nowadays? I need the form factor for modifications to antenna
> > rotator assemblies in a space that does not permit using
> > larger multi-turn pots and using trimmer versions is not
> > sufficiently robust.
>
> Wow, I had seen those in the past but not for many many years.
>
> If you are truly updating some rotators, there are some articles in
> QST, CQ, 73, etc. from the past 20-30 years on doing it using
> something other than 360-degree pots. Some of them use essentially
> homebrew shaft encoders.
>
> Tim.
>
```

```
From 1579744264684037138
X-Google-Thread: f849b,cc514c32d4d6d644
X-Google-Thread: fc2a5,cc514c32d4d6d644
X-Google-Thread: 1118be,cc514c32d4d6d644
X-Google-Attributes: gidf849b,gidfc2a5,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!
newscon02.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr25.news.prodigy.net.POSTED!6d1e6571!not-for-
mail
From: "HapticZ" <hapticz@sbcglobal.net>
Newsgroups:
comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.components
References: <139f22h91ghhna7@corp.supernews.com>
Subject: Re: Need sources for pot with planetary drive
Lines: 29
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
```

```
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <qJ3mi.19049$Rw1.16346@newssvr25.news.prodigy.net>
NNTP-Posting-Host: 75.6.11.125
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr25.news.prodigy.net 1184417750 ST000 75.6.11.125 (Sat, 14 Jul 2007
08:55:50 EDT)
NNTP-Posting-Date: Sat, 14 Jul 2007 08:55:50 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
Q[R_PJSCO@TQB^X[GZKPNFXBWR\HPCTL@XT^OBPLAH[\BQUBLNTC@AWZWDXZXQ[K\FFSKCVM@F_N_DOBWV
WG__LG@VVOIPLIGX\
\BU_B@\P\PFX\B[APHTWAHDCKJF^NHD[YJAZMCY_CWG[SX\Y]^KC\HSZRWSWKGAY_PC[BQ[BXAS\F\
\@DMTLFZFUE@\VL
Date: Sat, 14 Jul 2007 12:55:50 GMT
Xref: g2news1.google.com comp.arch.embedded:49444 rec.radio.amateur.homebrew:13670
sci.electronics.components:16915

http://cgi.ebay.com/CTS-Potentiometers-137-8418-VA45R502A-Ball-Bearing_W0QQi
temZ7595963466QQihZ017QQcategoryZ58164QQrdZ1QQssPageNameZWD1VQQcmdZViewItem

try ebay  search  "ball potentiometer"


"msg" <msg@_cybertheque.org_> wrote in message
news:139f22h91ghhna7@corp.supernews.com...
> Greetings:
>
> Please view these photos of a three-turn planetary drive
> pot that uses a conventional "stackpot" formfactor at
> http://www.cybertheque.org/homebrew/rcvr/images/antennas/pot.jpg
> Resistance = 1K
>
> It was made in 1966 by CTS; stampings: 36129 137.6637
>
> Does anyone recognize this pot technology? Any suppliers
> nowadays? I need the form factor for modifications to antenna
> rotator assemblies in a space that does not permit using
> larger multi-turn pots and using trimmer versions is not
> sufficiently robust.
>
> Regards,
>
> Michael
> msg _at_ cybertheque _dot_ org




From 4159292481130828883
X-Google-Thread: f849b,cc514c32d4d6d644
X-Google-Thread: fc2a5,cc514c32d4d6d644
X-Google-Thread: 1118be,cc514c32d4d6d644
X-Google-Attributes: gidf849b,gidfc2a5,gid1118be,public,usenet
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out03a.usenetserver.com!news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!wesley.videotron.net!newsfeed.east.grouptelecom.net!news.ca.mci.com!news.uunet.ca!nnrp.ca.mci.com!nnrp1.uunet.ca.POSTED!53ab2750!not-for-mail
Newsgroups:
comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.components
Subject: Re: Need sources for pot with planetary drive
From: Gary Tait <classicsat@yahoo.com>
References: <139f22h91ghhna7@corp.supernews.com>
Organization: Your Company
Message-ID: <Xns996D604251B23wonkynillmailnil@142.77.1.194>
User-Agent: Xnews/5.04.25
Lines: 14
Date: Sat, 14 Jul 2007 13:27:44 GMT
NNTP-Posting-Host: 216.46.141.18
X-Complaints-To: abuse@ca.mci.com
X-Trace: nnrp.ca.mci.com!nnrp1.uunet.ca 1184419664 216.46.141.18 (Sat, 14 Jul 2007 09:27:44 EDT)
NNTP-Posting-Date: Sat, 14 Jul 2007 09:27:44 EDT
Xref: g2news1.google.com comp.arch.embedded:49446 rec.radio.amateur.homebrew:13671 sci.electronics.components:16916

msg <msg@_cybertheque.org_> wrote in news:139f22h91ghhna7
@corp.supernews.com:

> I need the form factor for modifications to antenna
> rotator assemblies

Do you mean the rotator or the controller?

For the rotator, you can maybe use a standard pot with gearing. I made an old 3 wire rotator a 5 wire with a pot an a 4 to 3 gear. One gear was fixed to the output shaft, the other to the pot, so that one full rotation (360 degrees) of the rotator shaft turned the pot its full path, or therabouts (270 degrees). The controller just had a typical 270 degree pot and a 3/4 scale that rotated N-E-S-W-N.

From -4501013559585517313
X-Google-Thread: f849b,cc514c32d4d6d644
X-Google-Thread: fc2a5,cc514c32d4d6d644
X-Google-Thread: 1118be,cc514c32d4d6d644
X-Google-Attributes: gidf849b,gidfc2a5,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z28g2000prd.googlegroups.com!not-for-mail
From: Alan Nishioka <alan@nishioka.com>
Newsgroups:
comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.components
Subject: Re: Need sources for pot with planetary drive
Date: Sat, 14 Jul 2007 07:58:00 -0700
Organization: http://groups.google.com

```
Lines: 17
Message-ID: <1184425080.691443.83770@z28g2000prd.googlegroups.com>
References: <139f22h91ghhna7@corp.supernews.com>
NNTP-Posting-Host: 67.124.148.134
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1184425081 6426 127.0.0.1 (14 Jul 2007 14:58:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 14 Jul 2007 14:58:01 +0000 (UTC)
In-Reply-To: <139f22h91ghhna7@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.8.0.9)
Gecko/20061206 Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: z28g2000prd.googlegroups.com; posting-host=67.124.148.134;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com comp.arch.embedded:49448 rec.radio.amateur.homebrew:13672
sci.electronics.components:16919
```

On Jul 13, 7:12 am, msg <msg@_cybertheque.org_> wrote:

> Please view these photos of a three-turn planetary drive
> pot that uses a conventional "stackpot" formfactor athttp://www.cybertheque.org/
homebrew/rcvr/images/antennas/pot.jpg
> Resistance = 1K

Interesting. I've never seen a pot like this.

So the turns ratio is determined by the shaft diameter to ball
diameter ratio?
And the wiper arm is connected to the ball carrier?
So this assumes the metal to metal, shaft to ball won't slip, but the
ball will turn in the carrier, causing the carrier to have 1/3 the
rotation of the shaft?

Sorry, this doesn't help you at all...
Alan Nishioka

```
From -5012027351058166865
X-Google-Thread: f849b,cc514c32d4d6d644
X-Google-Thread: fc2a5,cc514c32d4d6d644
X-Google-Thread: 1118be,cc514c32d4d6d644
X-Google-Attributes: gidf849b,gidfc2a5,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-
sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups:
comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.components
Subject: Re: Need sources for pot with planetary drive
Date: Sat, 14 Jul 2007 16:40:32 -0500
Organization: Posted via Supernews, http://www.supernews.com
```

Message-ID: <139igmhfkoveg16@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <139f22h91ghhna7@corp.supernews.com>
<Xns996D604251B23wonkynillmailnil@142.77.1.194>
In-Reply-To: <Xns996D604251B23wonkynillmailnil@142.77.1.194>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 34
Xref: g2news1.google.com comp.arch.embedded:49455 rec.radio.amateur.homebrew:13673
sci.electronics.components:16924

Gary Tait wrote:

> msg <msg@_cybertheque.org_> wrote in news:139f22h91ghhna7
> @corp.supernews.com:
>
>
>> I need the form factor for modifications to antenna
>>rotator assemblies
>
>
> Do you mean the rotator or the controller?
>
> For the rotator, you can maybe use a standard pot with gearing.

<snip>

I had considered gearing but the available space and the
necessary additional fabrication was more involved than
the solution I chose.

Here are photos of the modified rotor:

http://www.cybertheque.org/homebrew/rcvr/images/antennas/rotor/

This rotor is common to a number of makes and models; the controller
that came with it was for the Cornell-Dubilier AR22R, an interrupter
based spring and escapement controller version.

The modifications permit continuous rotation and rely on the
controller to manage limits.

Regards,

Michael
msg _at_ cybertheque _dot_ org

From -5107547099453434327
X-Google-Thread: f849b,cc514c32d4d6d644

X-Google-Thread: fc2a5,cc514c32d4d6d644
X-Google-Thread: 1118be,cc514c32d4d6d644
X-Google-Attributes: gidf849b,gidfc2a5,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!sn-xt-sjc-03!sn-xt-sjc-06!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups:
comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.components
Subject: Re: Need sources for pot with planetary drive
Date: Sat, 14 Jul 2007 16:42:48 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <139igqpc2lhis72@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <139f22h91ghhna7@corp.supernews.com>
In-Reply-To: <139f22h91ghhna7@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 15
Xref: g2news1.google.com comp.arch.embedded:49456 rec.radio.amateur.homebrew:13674
sci.electronics.components:16925

msg wrote:

<snip>
> http://www.cybertheque.org/homebrew/rcvr/images/antennas/pot.jpg
> Resistance = 1K
<snip>
> Does anyone recognize this pot technology? Any suppliers
> nowadays?

Thanks to all for replies so far.

Regards,

Michael
msg _at_ cybertheque _dot_ org

From -6912154630344535402
X-Google-Thread: fc2a5,7f88e1a1ca18d86f,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "DJboutit" <Recordking@Hotmail.com>
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Texas CB Forum
Date: Sat, 14 Jul 2007 17:41:39 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Lines: 4
Message-ID: <46994a6a$0$32571$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13675
```

For anybody that lives in Texas who is into cb radio to chat & meet others who are also into cb radio www.texascbforum.co.sr

```
From -6437311027195908776
X-Google-Thread: f849b,cc514c32d4d6d644
X-Google-Thread: fc2a5,cc514c32d4d6d644
X-Google-Thread: 1118be,cc514c32d4d6d644
X-Google-Attributes: gidf849b,gidfc2a5,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-
mail
From: "William E. Sabin" <w.sabin@mchsi.com>
Newsgroups:
comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.components
References: <139f22h91ghhna7@corp.supernews.com>
<Xns996D604251B23wonkynillmailnil@142.77.1.194>
<139igmhfkoveg16@corp.supernews.com>
Subject: Re: Need sources for pot with planetary drive
Lines: 43
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <c8cmi.11240$Xa3.10299@attbi_s22>
NNTP-Posting-Host: 12.217.187.88
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1184452232 12.217.187.88 (Sat, 14 Jul 2007 22:30:32 GMT)
NNTP-Posting-Date: Sat, 14 Jul 2007 22:30:32 GMT
Organization: AT&T ASP.att.net
Date: Sat, 14 Jul 2007 22:30:32 GMT
Xref: g2news1.google.com comp.arch.embedded:49458 rec.radio.amateur.homebrew:13676
sci.electronics.components:16927
```

Jackson Brothers http://www.mainlinegroup.co.uk/jacksonbrothers/
Makes some excellent planetary drives. There are dealers in the USA.

Bill W0IYH

"msg" <msg@_cybertheque.org_> wrote in message
news:139igmhfkoveg16@corp.supernews.com...
> Gary Tait wrote:
>
>> msg <msg@_cybertheque.org_> wrote in news:139f22h91ghhna7
>> @corp.supernews.com:
>>
>>
>>> I need the form factor for modifications to antenna
>>>rotator assemblies
>>
>>
>> Do you mean the rotator or the controller?
>>
>> For the rotator, you can maybe use a standard pot with gearing.
> <snip>
>
> I had considered gearing but the available space and the
> necessary additional fabrication was more involved than
> the solution I chose.
>
> Here are photos of the modified rotor:
>
> http://www.cybertheque.org/homebrew/rcvr/images/antennas/rotor/
>
> This rotor is common to a number of makes and models; the controller
> that came with it was for the Cornell-Dubilier AR22R, an interrupter
> based spring and escapement controller version.
>
> The modifications permit continuous rotation and rely on the
> controller to manage limits.
>
> Regards,
>
> Michael
> msg _at_ cybertheque _dot_ org

From 8176165685720338432
X-Google-Thread: f849b,cc514c32d4d6d644
X-Google-Thread: fc2a5,cc514c32d4d6d644
X-Google-Thread: 1118be,cc514c32d4d6d644
X-Google-Attributes: gidf849b,gidfc2a5,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder3.cambrium.nl!feeder1.cambrium.nl!
feed.tweaknews.nl!news2.euro.net!news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!
news.highwinds-media.com!newspeer1-win.ntli.net!newsfe5-win.ntli.net.POSTED!
53ab2750!not-for-mail
From: "Roger Hamlett" <rogerspamignored@ttelmah.demon.co.uk>

Newsgroups:
comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.components
References: <139f22h91ghhna7@corp.supernews.com>
<1184425080.691443.83770@z28g2000prd.googlegroups.com>
Subject: Re: Need sources for pot with planetary drive
Lines: 33
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <qIomi.26565$ri2.3731@newsfe5-win.ntli.net>
Date: Sun, 15 Jul 2007 12:48:22 GMT
NNTP-Posting-Host: 86.9.155.10
X-Complaints-To: http://www.virginmedia.com/netreport
X-Trace: newsfe5-win.ntli.net 1184503702 86.9.155.10 (Sun, 15 Jul 2007 13:48:22 BST)
NNTP-Posting-Date: Sun, 15 Jul 2007 13:48:22 BST
Organization: ntl Cablemodem News Service
Xref: g2news1.google.com comp.arch.embedded:49465 rec.radio.amateur.homebrew:13677 sci.electronics.components:16937

"Alan Nishioka" <alan@nishioka.com> wrote in message
news:1184425080.691443.83770@z28g2000prd.googlegroups.com...
> On Jul 13, 7:12 am, msg <msg@_cybertheque.org_> wrote:
>> Please view these photos of a three-turn planetary drive
>> pot that uses a conventional "stackpot" formfactor
>> athttp://www.cybertheque.org/homebrew/rcvr/images/antennas/pot.jpg
>> Resistance = 1K
>
> Interesting. I've never seen a pot like this.
>
> So the turns ratio is determined by the shaft diameter to ball
> diameter ratio?
> And the wiper arm is connected to the ball carrier?
> So this assumes the metal to metal, shaft to ball won't slip, but the
> ball will turn in the carrier, causing the carrier to have 1/3 the
> rotation of the shaft?
>
> Sorry, this doesn't help you at all...
> Alan Nishioka

The ratio, is determined by the shaft diameter, to the internal diameter of the casing in which the balls sit.
If (for instance), you have a 3mm shaft, and 10mm balls, the casing has to have an internal diameter of 26mm, and the ratio is 26/3 = 8.66:1. The drive can be made remarkably good (the same system is used on some micro focussers for telescopes, which carry significantly more torque than needed for a pot). Units like the 'Williams optics feathertouch focusser', use exactly this drive.

Best Wishes

```
From -1943083262071162591
X-Google-Thread: f849b,cc514c32d4d6d644
X-Google-Thread: fc2a5,cc514c32d4d6d644
X-Google-Thread: 1118be,cc514c32d4d6d644
X-Google-Attributes: gidf849b,gidfc2a5,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 15 Jul 2007 11:30:03 -0500
Date: Sun, 15 Jul 2007 17:29:59 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.4 (X11/20070620)
MIME-Version: 1.0
Newsgroups:
comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.components
Subject: Re: Need sources for pot with planetary drive
References: <139f22h91ghhna7@corp.supernews.com>
<1184425080.691443.83770@z28g2000prd.googlegroups.com>
<qIomi.26565$ri2.3731@newsfe5-win.ntli.net>
In-Reply-To: <qIomi.26565$ri2.3731@newsfe5-win.ntli.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <LbedndXVd60R1gfbRVnygQA@pipex.net>
Lines: 22
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 81.178.117.110
X-Trace: sv3-x1r+eb1lDFPQnzRyXpwGmLzd8vM4qo/
Xa85YYaEUXC7g012PdoRBRWOH93EXy+8pgVSAoe2PxEvagIX!
5jWdDeNCUv9mFJk8L0QiyRinuMPgJEvOTUd56AtlzzoTzdkAlgCDMxxHYYDH7ld5dobr2krGVdCg!
G8HWXhsvJKzLOlg=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com comp.arch.embedded:49469 rec.radio.amateur.homebrew:13678
sci.electronics.components:16945
```

> The ratio, is determined by the shaft diameter, to the internal diameter
> of the casing in which the balls sit.
> If (for instance), you have a 3mm shaft, and 10mm balls, the casing has to
> have an internal diameter of 26mm, and the ratio is 26/3 = 8.66:1. The
> drive can be made remarkably good (the same system is used on some micro
> focussers for telescopes, which carry significantly more torque than
> needed for a pot). Units like the 'Williams optics feathertouch focusser',
> use exactly this drive.

================

Sorry ,but I don't understand the above .
If the shaft has a diameter of 3mm and the balls a diameter of 10mm, the inner diameter of the casing should be 10 + 10 + 3 equals 23 mm

When the shaft makes 1 revolution the balls will make 3/10 revolution .
When the balls make 1 revolution the casing makes 10/23 revolution .
Hence when the shaft makes 1 revolution the casing will make
3/10 * 10/23 equals 3/23 equals 0.13 revolution , hence reduction factor is 7.7
Please correct me if I made an error.

Frank   GM0CSZ / KN6WH

```
From -5562587049498996903
X-Google-Thread: f849b,cc514c32d4d6d644
X-Google-Thread: fc2a5,cc514c32d4d6d644
X-Google-Thread: 1118be,cc514c32d4d6d644
X-Google-Attributes: gidf849b,gidfc2a5,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 15 Jul 2007 14:11:29 -0500
Message-Id: <o18qm4-pub.ln1@remote.clifto.com>
From: clifto <clifot@gmail.com>
Subject: Re: Need sources for pot with planetary drive
Newsgroups:
comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.components
Date: Sun, 15 Jul 2007 14:10:16 -0500
References: <139f22h91ghhna7@corp.supernews.com>
<1184425080.691443.83770@z28g2000prd.googlegroups.com>
<qIomi.26565$ri2.3731@newsfe5-win.ntli.net>
Organization: the clifto consortium
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 15
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.15.125.52
X-Trace: sv3-x4nq3WgXrSLADWzhP9W43aR4VcqNjZQmg23BFAmNRq6/
nOKqtQhli80+SSPybSMaGxceLg3IMKNALAy!rK8ngLiQwaThXyPahHr+TDwzr1/
Mb2RXpt1r8OZrXCxaS81Q1aKLGlICQpLtZPyEn3iUMn0HRfDn!qF4jB5T9FrEU
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com comp.arch.embedded:49473 rec.radio.amateur.homebrew:13679
sci.electronics.components:16948
```

Roger Hamlett wrote:

> If (for instance), you have a 3mm shaft, and 10mm balls, the casing has to
> have an internal diameter of 26mm, and the ratio is 26/3 = 8.66:1.

I could be missing something, but at first glance I read the radius as the diameter of the 10mm ball (10mm) plus half the diameter of the 3mm shaft (1.5mm) and get 23mm internal diameter, ratio of 23:3 or 7.66:1.

Just in case this turns out to be a corecktion I've included speling erors to comply with tradishun.

--
Postulate a group whose intent is to destroy the United States from within via anarchy and bankruptcy. The actions of the United States Congress are completely consistent with the actions one would predict from such a group.

```
From 4681421346510511353
X-Google-Thread: f849b,cc514c32d4d6d644
X-Google-Thread: fc2a5,cc514c32d4d6d644
X-Google-Thread: 1118be,cc514c32d4d6d644
X-Google-Attributes: gidf849b,gidfc2a5,gid1118be,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out02a.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!pd7cy1no!
shaw.ca!news-out.ntli.net!newsrout1-gui.ntli.net!ntli.net!news.highwinds-
media.com!newspeer1-win.ntli.net!newsfe6-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Roger Hamlett" <rogerspamignored@ttelmah.demon.co.uk>
Newsgroups:
comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.components
References: <139f22h91ghhna7@corp.supernews.com>
<1184425080.691443.83770@z28g2000prd.googlegroups.com>
<qIomi.26565$ri2.3731@newsfe5-win.ntli.net> <o18qm4-pub.ln1@remote.clifto.com>
Subject: Re: Need sources for pot with planetary drive
Lines: 28
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <Vyvmi.35055$3j1.2387@newsfe6-gui.ntli.net>
Date: Sun, 15 Jul 2007 20:36:05 GMT
NNTP-Posting-Host: 86.9.155.10
X-Complaints-To: http://www.virginmedia.com/netreport
X-Trace: newsfe6-gui.ntli.net 1184531765 86.9.155.10 (Sun, 15 Jul 2007 21:36:05
BST)
NNTP-Posting-Date: Sun, 15 Jul 2007 21:36:05 BST
Organization: ntl Cablemodem News Service
Xref: g2news1.google.com comp.arch.embedded:49475 rec.radio.amateur.homebrew:13680
sci.electronics.components:16949
```

"clifto" <clifot@gmail.com> wrote in message
news:o18qm4-pub.ln1@remote.clifto.com...
> Roger Hamlett wrote:
>> If (for instance), you have a 3mm shaft, and 10mm balls, the casing has
>> to
>> have an internal diameter of 26mm, and the ratio is 26/3 = 8.66:1.
>
> I could be missing something, but at first glance I read the radius as
> the diameter of the 10mm ball (10mm) plus half the diameter of the 3mm
> shaft (1.5mm) and get 23mm internal diameter, ratio of 23:3 or 7.66:1.
>
> Just in case this turns out to be a corecktion I've included speling
> erors to comply with tradishun.

Yes. Sorry, I just added up the internal diameter wrong....

It is fairly simple to visualise what is happening, if you realise that the balls are rolling round the internal diameter of the casing, driven by the small shaft at the centre, and for the assembly of three balls to complete one complete turn, their surfaces, must travel the internal diameter of the outer casing. Since the surfaces of the balls are driven by the internal shaft, you get the ratio from the ratio of these two diameters.

Best Wishes

From 7937835406640007988
X-Google-Thread: fc2a5,845e7f9f92064c2c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z28g2000prd.googlegroups.com!not-for-mail
From: telcodev <telcodev@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homemade piezo earpiece
Date: Mon, 16 Jul 2007 04:07:38 -0000
Organization: http://groups.google.com
Lines: 12
Message-ID: <1184558858.698611.19610@z28g2000prd.googlegroups.com>
References: <1184199916.170012.123060@m3g2000hsh.googlegroups.com>
   <1184394620.035119.273010@q75g2000hsh.googlegroups.com>
NNTP-Posting-Host: 71.35.189.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1184558859 12899 127.0.0.1 (16 Jul 2007 04:07:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 16 Jul 2007 04:07:39 +0000 (UTC)
In-Reply-To: <1184394620.035119.273010@q75g2000hsh.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR

```
1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: z28g2000prd.googlegroups.com; posting-host=71.35.189.1;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:13681
```

On Jul 13, 11:30 pm, lw1ecp <danyper...@yahoo.com.ar> wrote:
> I guess a look at the guts of an old piezo tweeter could give you a
> hand.

I had never heard of a piezo tweeter before your post. They sound like a different type of device than what I am pursuing. I need an earpiece with very high impedance, one that can work off of the nominal potential a crystal radio circuit can produce.

But hey, thank you for the feedback, my world is ever so slightly larger than before...

```
From 4821757736165352543
X-Google-Thread: fc2a5,845e7f9f92064c2c
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z28g2000prd.googlegroups.com!not-for-
mail
From:  Arv-K7HKL <arvid.evans@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homemade piezo earpiece
Date: Mon, 16 Jul 2007 07:35:21 -0700
Organization: http://groups.google.com
Lines: 20
Message-ID: <1184596521.723165.109210@z28g2000prd.googlegroups.com>
References: <1184199916.170012.123060@m3g2000hsh.googlegroups.com>
   <1184394620.035119.273010@q75g2000hsh.googlegroups.com>
   <1184558858.698611.19610@z28g2000prd.googlegroups.com>
NNTP-Posting-Host: 71.32.182.81
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1184596522 19747 127.0.0.1 (16 Jul 2007 14:35:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 16 Jul 2007 14:35:22 +0000 (UTC)
In-Reply-To: <1184558858.698611.19610@z28g2000prd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.4) Gecko/
20061201 Firefox/2.0.0.4 (Ubuntu-feisty),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: z28g2000prd.googlegroups.com; posting-host=71.32.182.81;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:13682
```

Go to <http://www.allelectronics.com> and do a search on their website for "piezo".

They have a number of Piezo elements available at reasonable prices.
Arv K7HKL

On 15 Jul, 22:07, telcodev <telco...@gmail.com> wrote:
> On Jul 13, 11:30 pm, lw1ecp <danyper...@yahoo.com.ar> wrote:
>
> > I guess a look at the guts of an old piezo tweeter could give you a
> > hand.
>
> I had never heard of a piezo tweeter before your post. They sound like
> a different type of device than what I am pursuing. I need an earpiece
> with very high impedance, one that can work off of the nominal
> potential a crystal radio circuit can produce.
>
> But hey, thank you for the feedback, my world is ever so slightly
> larger than before...

From 919311561520920474
X-Google-Thread: fc2a5,5f45ccb7b1ef78fb,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w3g2000hsg.googlegroups.com!not-for-mail
From: Transmitter Man <phil@transmittersrus.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: I need the help of a PIC programmer
Date: Mon, 16 Jul 2007 08:53:44 -0700
Organization: http://groups.google.com
Lines: 16
Message-ID: <1184601224.171535.315550@w3g2000hsg.googlegroups.com>
NNTP-Posting-Host: 89.242.150.73
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1184601224 8838 127.0.0.1 (16 Jul 2007 15:53:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 16 Jul 2007 15:53:44 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: w3g2000hsg.googlegroups.com; posting-host=89.242.150.73;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:13683

A colleague is looking for someone to assist him in writing some pic
code for the 16F88 chip.

This is to drive an LCD on a FM broadcast transmitter.

If you think you can help for a negotiable fee then please drop me a line:

sales (AT) transmittersrus.com

Thanks

Phil G4ZOW
Transmitters 'R' Us
http://www.transmittersrus.com

From -7757009765160200715
X-Google-Thread: fc2a5,b072bbae52a2bfd2
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n2g2000hse.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: question on LP filter
Date: Mon, 16 Jul 2007 10:42:02 -0700
Organization: http://groups.google.com
Lines: 78
Message-ID: <1184607722.188090.256820@n2g2000hse.googlegroups.com>
References: <1184271424.548662.168650@g4g2000hsf.googlegroups.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1184607722 18729 127.0.0.1 (16 Jul 2007 17:42:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 16 Jul 2007 17:42:02 +0000 (UTC)
In-Reply-To: <1184271424.548662.168650@g4g2000hsf.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.4) Gecko/20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n2g2000hse.googlegroups.com; posting-host=192.25.240.225;
   posting-account=ps2QrAMAAAA6_jCuRt2JEIpn5Otqf_w0
Xref: g2news1.google.com rec.radio.amateur.homebrew:13684

On Jul 12, 1:17 pm, francesco.messi...@gmail.com wrote:
> Hello,
>
> I'm modifying a 28-50 MHz transverter to work the new (for us) 70 MHz
> band, not having a spectrum analyzer I'm trying to get as close as
> possible with substitutions. I have a doubt about the low pass filter
> after the final amplifier:
> on the arrl handbook I have found formulas for pi-filters:
>
```
> ----|----L------|--------
>    =C/2     =C/2    R
> ----|-----------|---------
```

>
> (I hope the ascii art is readable)
>
> L=R/(pi Fc)   C=1/(pi Fc R)
>
> Now the 50 MHz original filter is composed of three cascaded filters
> as the one above, the capacitor are 47pF at the two ends and 100 pF
> the two middle ones, which is consistent with the formula as the
> middle ones can be actually seen as two parallel capacitor for the
> cascaded pi-cells, the formula indicates an Fc of about 63 MHz with
> these values, which seems correct.
> The inductors are 6 turns, internal diameter 6 mm, enameled 0.8 mm
> wire, no spaces between turns for the two "external" inductors and 7
> turns same diameter for the internal one.
> These inductors should have an inductance of 0.17uH the 6 turns ones
> and 0.21 uH the 7 turns one and the formula don't agree with these
> values, can anyone explain where I'm wrong?
> Thanks in advance
>
> Francesco IZ8DWF

Hi Francesco,

I guess you have things figured out pretty well now, but for future reference, I'll offer a few additional points:

-- You can get some pretty decent filter design software for free from www.aade.com. It will tell you a lot about the expected performance of the designed filter. It also has coil design help, though the dimensions are in (ugh) English units.

-- You can also get the evaluation/student/ham version of Elsie from www.tonnesoftware.com. I've been using the professional version for a while now, and I think the value/price ratio is very good. I've evaluated some much more expensive filter design programs that offer only marginally better features.

-- For coils used at HF and above, you will get better Q if you use a little space between turns. That is, if you need a coil with, say, 1mm turn pitch, it's better to use wire that's about 0.5 - 0.6mm diameter, than to use wire that's 1mm diameter. For example, according to a coil program I use and trust, your 6 turn coil should be about 186nH, with a Qu of 150 at 50MHz. That's using 21AWG (0.724mm) wire with 0.80mm turn pitch. Changing to 26AWG wire, same turn pitch, now the pitch is about 1.9 wire diameters, so there's almost as much space between turns as the wire diameter. Now the inductance is predicted to be about half a nanohenry less, but the predicted Q is 175. You might think at first that the larger wire will have lower RF resistance, but the proximity effect of closely spaced wires dominates as the turns are immediately next to each other.

-- You can wind coils with nice even spacing by winding them on the

threads of a bolt. After you unscrew the bolt, if the wire diameter
is fairly large for the particular coil diameter, the coil may well be
self-supporting enough to be useful as-is. You can further stabilize
it by putting a couple rows of appropriate glue parallel to the axis
of the coil, making it look a little like the old "Air-Dux" coils.
Use glue with reasonably low dielectric constant and low RF loss.

Hope this is helpful.

Cheers,
Tom

```
From -5815261340661915385
X-Google-Thread: fc2a5,5502aaea195b61c7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!feeder1-2.proxad.net!
newsfeed.stueberl.de!news2.euro.net!sn-xt-ams-06!sn-xt-ams-04!sn-ams!sn-feed-
ams-01!sn-post-ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question for the group...
Date: Fri, 8 Jun 2007 13:15:16 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <136j75vs8a9q0c2@corp.supernews.com>
References: <1361eplquqruj46@corp.supernews.com>
<1180798741.968920.246430@i38g2000prf.googlegroups.com>
<13684n4405kom02@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 100
Xref: g2news1.google.com rec.radio.amateur.homebrew:13473
```

"Dave" <db5151@hotmail.com> wrote in message
news:13684n4405kom02@corp.supernews.com...
>
> "K7ITM" <k7itm@msn.com> wrote in message
> news:1180798741.968920.246430@i38g2000prf.googlegroups.com...
>> On Jun 1, 5:35 pm, "Dave" <db5...@hotmail.com> wrote:
>>> Has anyone ever heard of anything like the experiment I am currently
>>> concocting? I have taken an Amidon T50-2 toroid form and wrapped it
>>> with 57
>>> turns of #32 enamaled wire, giving it an inductance of 16 uH, then
>>> wrapped
>>> over that layer with 150 turns of #36 wire. The first layer (16 uH) I

>>> am
>>> using for tuning my home-built active antenna, and am relying on
>>> resonance
>>> to send a signal through the outer layer, which I *think* should act
>>> like a
>>> step-up transformer for that signal. This layer is grounded on one end,
>>> and
>>> feeds into the first stage of amplification on the other. And it does
>>> seem
>>> to work, only the toroid seems to resonate at around 10 MHz with my
>>> tuning
>>> capacitor set to 114 pF, when it should (I thought) resonate at
>>> something
>>> lower, like around 3.7 MHz.
>>>
>>> And like I said, the step-up transformer part does seem to work, but I
>>> can't
>>> tune as low as I would like. Has anyone ever hear of anyone else trying
>>> anything like this? If so, what is it called, and where can I find info
>>> on
>>> the subject?
>>>
>>> Many thanks for any help...
>>>
>>> Dave
>>
>> The reactance of the coil at 3.7MHz is about 375 ohms. Your long
>> antenna will likely put an impedance across that tank that's on the
>> same order, or maybe lower, impedance. That will pretty much kill any
>> resonant peak you got from the coil and capacitor.
>>
>> You should start, perhaps, by realizing that what you are looking for
>> is generally not the largest voltage from the antenna, assuming you
>> can add whatever amplification you want, but rather the best signal to
>> noise ratio or the lowest distortion. In fact, atmospheric noise is
>> so large at these HF frequencies that it doesn't take much of an
>> antenna to pick up more of that atmospheric noise than the receiver
>> will contribute, assuming a decent receiver. Making the signal larger
>> just increases the distortion and the chances that strong signals will
>> cause distortion that covers up the weak ones.
>>
>> There IS an advantage to having sharply resonant circuits in front of
>> any gain stages in the receiver, because you can use them to get rid
>> of unwanted signals, and preferentially select the signals you want to
>> listen to. But to do that, you need to think more carefully about the
>> design of the resonant circuit.
>>
>> You may in fact find that it works a lot better if you couple your
>> antenna to the tuned circuit (your toroid core and capacitor) rather
>> loosely, like with very few turns--perhaps a single turn-- through the
>> core for the antenna connection. Even back in the very early days of
>> radio, the advantages of a sharp resonance achieved by loose coupling
>> to a resonant circuit were understood: they used something called a

```
>> "loose coupler" that let them adjust the coupling from the antenna to
>> the tuned tank/detector.  For best selectivity, couple lightly, just
>> enough to get a usable signal.  That means coupling the receiver input
>> lightly to the tuned circuit, too.
>>
>> Cheers,
>> Tom
>>
>
> Thanks, Tom,
>
> I ran a single turn of wire from my antenna input through the toriod, and
> it does give me much better tuning ability.  And WWV at least comes in
> like it's in my back pocket.  The 1300 UTC broadcast of Voice of Korea was
> lost in the noise, but I'm guessing that could just be atmospheric
> conditions.
>
> Thank you for the input.  Any other ideas on how I could sharpen the
> resonant peak of the tank circuit?
>
> Dave
>
>

Quick note-had to finally give up on the single turn of antenna wire through
the tuning toroid idea due to such severe signal degredation.  Went back to
directly connecting the tank circuit to the antenna input.  Am still open to
new ideas though, and seek any further input from the group.

Thanks,

Dave





From 3010644839730267326
X-Google-Thread: f70d1,b1d2aa8242f32468
X-Google-Thread: 107cee,b1d2aa8242f32468
X-Google-Thread: fc2a5,b1d2aa8242f32468
X-Google-Attributes: gidf70d1,gid107cee,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q69g2000hsb.googlegroups.com!not-for-
mail
From:  wuyogi@gmail.com
Newsgroups:
alt.comp.hardware.homebuilt,sci.electronics.misc,rec.radio.amateur.homebrew
Subject: Re: motherboard LED connectors and posts?
Date: Fri, 08 Jun 2007 20:02:04 -0000
Organization: http://groups.google.com
Lines: 26
Message-ID: <1181332924.315097.66640@q69g2000hsb.googlegroups.com>
References: <1180546547.504204.176760@p47g2000hsd.googlegroups.com>
```

```
NNTP-Posting-Host: 66.14.188.78
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1181332924 10401 127.0.0.1 (8 Jun 2007 20:02:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 8 Jun 2007 20:02:04 +0000 (UTC)
In-Reply-To: <1180546547.504204.176760@p47g2000hsd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
InfoPath.1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
X-HTTP-Via: 1.0 LIBSERVER
Complaints-To: groups-abuse@google.com
Injection-Info: q69g2000hsb.googlegroups.com; posting-host=66.14.188.78;
   posting-account=DrSJFA0AAACgPMR_1xgHwrQfMK14ImI0
Xref: g2news1.google.com alt.comp.hardware.homebuilt:16913
sci.electronics.misc:15937 rec.radio.amateur.homebrew:13477

On May 30, 12:35 pm, Mad Scientist Jr <usenet_daugh...@yahoo.com>
wrote:
> Does anyone know where you can order motherboard LED type connectors
> and posts like these
>
>  http://estore.asus.com/images/14-000014000.JPG
>  http://www.pctechguide.com/images/tutorials/SCSI/LEDConnector.gif
>  http://lib.store.yahoo.net/lib/directron/wircon7b.jpg
>  http://www.hardwaresecrets.com/imageview.php?image=628
>  http://www.infohq.com/Computer/CompGraphics/AthlonBuild/accessorycons...
>  http://www.pcper.com/images/reviews/285/install03.jpg
>
> Preferably at a good price, as I am looking to buy a bunch (a couple
> hundred).
>
> I have seen 2 or 3 pin connectors are pretty common on motherboards,
> but I am mainly looking for one-pin connectors, if available.
>
> I would imagine the posts may just come in strips of wire that you
> would cut yourself?
>
> Much appreciated...

if you are still interested go to voxtecnologies and ask for john tell
him Willie ref. you




From 1265416414631145517
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!news.astraweb.com!
```

border1.a.newsrouter.astraweb.com!feeder.news-service.com!feeder1.cambrium.nl!
feed.tweaknews.nl!news2.euro.net!transit.news.xs4all.nl!xs4all!
textnews.nntp.hccnet.nl!textreader.nntp.hccnet.nl!not-for-mail
From: "Angela PE1BIV/M1SCH" <nospam-pe1biv@nospam-yahoo.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>
<1180583642.877955.169570@o5g2000hsb.googlegroups.com>
<z5adnVd7TNWBPsPbnZ2dnUVZ8vmdnZ2d@pipex.net> <466076bf.442271@news.iol.ie>
<3Ui9i.37$1T2.8@newsfe12.lga> <46685f5f.2099940@news.iol.ie>
<Xns994955CAD5673perspicacity@207.14.116.130>
<FvudnVP5W613ofTbnZ2dnUVZ8tChnZ2d@pipex.net>
<Xns99498B32CF073perspicacity@207.14.116.130>
<qlki63hbk12sin70vj1jhvlna9q5qubvk8@4ax.com> <lvmdnU2AqZcKH_TbRVnysQA@pipex.net>
Subject: Re: Car and Deep Cycle Battery FAQ
Date: Sat, 9 Jun 2007 00:58:17 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1437
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1441
Lines: 41
Message-ID: <4669ed06$0$739$3a628fcd@textreader.nntp.hccnet.nl>
Organization: Hobby Computer Club News Network
NNTP-Posting-Date: 08 Jun 2007 23:57:58 GMT
NNTP-Posting-Host: 82.204.26.219
X-Trace: 1181347078 textreader.nntp.hccnet.nl 739 angela-jacqueline/
82.204.26.219:2409
X-Complaints-To: abuse@hccnet.nl
Xref: g2news1.google.com uk.radio.amateur:115699 rec.radio.amateur.misc:36311
rec.radio.amateur.homebrew:13478

Hi Frank and all,

> I have 'heard' that in some countries (but not in the UK)
> electro-mechanical kiloWattHour meters can rotate reversed when fed

I have never seen a reversible mechanical kWh meter and also never heared of
this, except running reverse due to incorrect wiring.

In our current home (IJmuiden, NL) we have an electronic 3-phase meter with
two counters for peak and off-peak. This meter also has a T3 to measure
energy supplied back into the net, though that requires a special contract.
It's a single LCD showing the counters sequentially.
I know the previously used electro mechanical meter in this house was
switched by a 230Vac signal on an extra wire in the mains cable. I'm prety
sure there are two 1.5 or 2.5 qmm wires with the four 6 or maybe 4 qmm wires
in the cable.
There still is an old boiler relay on the meter board controlled from the
same signal.
The new electronic meter might be frequency controlled.

In the previous home we did have an electro mechanical two-tarif meter and I
think that one was switched from an electronic unit that I presume was a
frequency selective relay.

The meter back in Newbury was just the standard single phase, single counter type.

I would expect that all modern wind turbines use rectifiers direct on the generator and then have DC power fed to one or more inverters in the base of the mast.
The inverters are synchronised to the grid before switching the generator on the net.
This is as I remember from college and as I read in the technical description of the wind turbine on which PI3WAD is installed.

Angela
M1SCH / PE1BIV

From -8864882444729938663
X-Google-Thread: fc2a5,f72ef04af3ab7dd9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.newsgroupbanter.com!news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 09 Jun 2007 15:00:03 -0500
From: wb7rbn <wb7rbn.b0bc0a@radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Keyer
Date: Sat, 9 Jun 2007 18:15:01 +0100
Message-ID: <wb7rbn.b0bc0a@radiobanter.com>
Organization: RadioBanter.com
References: <f2aprl$kba$1@news04.infoave.net>
Lines: 11
NNTP-Posting-Host: 87.106.71.43
X-Trace: sv3-VL7uB5s6kjcq3JYtnjxxTt+OZRqFAGAU+adH1D1/eYEcahJ021FLiFNZeHFA0E4C5PCk+4rV4JaXU4T!LcHjU3gG7M8Sx+RciM/ClMdHjhwHNhd+y2ngqbNcZhejmYXypOl+ZyT5Odig3U04LUS2sugdHmQD!4g==
X-Complaints-To: abuse@newsgroupbanter.com
X-DMCA-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13479

Jim,

I have a PK-3 Keyer I got from Jackon Harbor Press as kit to use in a 10 Meter Beacon. But I ended up using a KID Beacon ID controller for

the beacon instead. The PK-3 is a iambic keyer with 2 memories plus
callsign memory, side-tone, auto CQ, beacon, A/B modes, 5-39 WPM, low
current, Tick compatable. It uses a 12CE674 PIC keyer chip. I built
and wired the PC board but never installed the PIC chip. I paid $19.95
plus shipping for it. I've never used it and am not going to. If you
are interested in it I'll ship to you for $15.00. That's $10 for the
keyer and $5 to cover the cost of shipping USPS Priority Mail.

Jim

Jim Barnard;570294 Wrote:
> Does anyone have a schematic for a nice homebrew keyer that can be made
> for
> a reasonable price. I would like to make my own.
> Thanks,
>
> Jim Barnard, KI4VGK

--
wb7rbn

```
From 4786280397064527249
X-Google-Thread: fc2a5,9f54a1735a4d7d8b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <464669b3$0$9904$4c368faf@roadrunner.com>
<eEn5i.11156$923.1724@bignews3.bellsouth.net>
Subject: Re: 6146 amp
Date: Sat, 9 Jun 2007 22:33:15 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Lines: 39
Message-ID: <466b62da$0$9960$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13480
```

"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:eEn5i.11156$923.1724@bignews3.bellsouth.net...
> Jimmie D wrote:

>> I am trying to modify a 1 tube amp for 6 meters using a 6146. I think the
>> amp was origionally used for CB though it does tune up on 10 meters. It
>> worked OK before I removed the input circuit and put in one for 6M. The
>> problem is I cant neutralize the damn thing. It makes a great osc.I was
>> thinking of scraping the tuned input and replacing it with a 200 ohm
>> resistor and a 4:1UNUN. I figure this low of an impedance on the grid
>> would
>> swamp out any feedback that might me causing it to osc. I have about 5
>> watts
>> PEP of drive.
>>
>> Jimmie
>>
>>
> Transmitter in the 1967 ARRL HB used a 6146 in gk on 6m.
> The input circuit was 9 turns of #20 spacewound 5/8" dia.
> It was center tapped, with the center tap connected to a 7uh
> rf choke, other end of the choke was grounded to bias supply
> (or 22k 1w resistor for grid leak bias, class C). One end of the
> coil goes to the grid of the 6146. The other end of the coil is
> connected to ground via a 30pf tuning cap, and also to a probe wire
> that serves as one 'plate' of the neutralizing capacitor (the plate
> of the tube is the other capacitor plate). This probe wire is simply
> moved near the tube till adjustment of the plate tuning capacitor does
> not vary the grid current, this indicates the tube is neutralized.
>
> The three cathode connections of the tube are connected together at the
> socket by a "Y" shaped piece of copper, this is then grounded at a
> single point.
>

Found a schematic where a 50 ohm swamping resitor was used on a 4cx250. This
worked great on a pair of 6146s

From 4030006697889399981
X-Google-Thread: fc2a5,a36e0230417ab37b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.brightview.com!
news.brightview.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 10 Jun 2007 01:28:36 -0500
From: rrah@pencoys.org.uk (Mike W)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS VFO
Date: Sun, 10 Jun 2007 06:28:27 GMT
Reply-To: rrah@pencoys.org.uk
Message-ID: <466b9958.673051809@news.madasafish.com>
References: <1180728282.446980.33860@u30g2000hsc.googlegroups.com>
<qWi8i.16$Dr5.11@newsfe04.lga>

```
X-Newsreader: Forte Free Agent 1.21/32.243
Lines: 32
NNTP-Posting-Host: 80.189.15.120
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u29FtVR0BcINbglKf7R4NtIOAdNWN6wbfx08dIb!
t7zQAWtI+k1r5RAAncGx4aUT+DhbcAVtCr0ahsZy29LCtk4nxgzYk5/+0JlXutmxb/d8fNT47zqT!YMx/
mchdkxfUyqE0epewXq4QaFeCtZkDuQ==
X-Complaints-To: abuse@brightview.com
X-DMCA-Complaints-To: abuse@brightview.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13481
```

On Sat, 2 Jun 2007 14:46:36 -0400, "xpyttl"
<xpyttl_NOSPAM@earthling.net> wrote:

>There are dozens of kits ... the combination FCC1/FCC2 from Norcal is one, AA0ZZ's has been mentioned as another. Kanga has a board called the PIC-EL II that will accept AmQRP's DDS-60 daughtercard and in conjunction with software available from AA0ZZ's website will do the same, plus, it has the PIC programmer on board, so you can play with various versions of the software. All 3 end up costing about the same. FAR Circuits has a board for the old WB2V model which works reasonably well and ends up considerably cheaper.
>
>If you are concerned about soldering the AD985x chip, there are dozens of folks who do that for a small fee. In fact, if you graze the QRP lists you will discover that there are probably hundreds of folks who love to build kits so much that they are floating in them, and a looking satisfy their addiction by building kits for other people so their XYLs won't scream at the increasing pile of unused electronic gear.
>
>The PIC-EL path is probably the most conducive to experimentation, but the most poorly packaged if your intent is to include it in one of your projects. AA0ZZ's has I-Q outputs if you are interested in exploring SDR. The FAR Circuits board of course includes none of the parts, the Norcal kit is lacking the expensive parts (switches, connectors, etc.)

The Pic-El route is possibly the best as the DDS board is a removable item and can be built into a dedicated controller after establishing which version of the software is the best for your application.
It also enables you to 'play' with PIC controller programming, you might even write your own software for the project :-)
72 Mike

```
From -7148043561036244670
X-Google-Thread: fc2a5,774188a20f519c1e,start
X-Google-Thread: fc8b1,774188a20f519c1e,start
X-Google-Thread: 108122,774188a20f519c1e,start
```

X-Google-Thread: 111d0a,774188a20f519c1e,start
X-Google-Thread: 113975,774188a20f519c1e,start
X-Google-Attributes: gidfc2a5,gidfc8b1,gid108122,gid111d0a,gid113975,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!h2g2000hsg.googlegroups.com!not-for-mail
From: bill.meara@gmail.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,sci.electronics.basics,sci.astro.amateur
Subject: SolderSmoke -- A visit to the New South Wales Homebrew Group
Date: Mon, 11 Jun 2007 05:48:02 -0000
Organization: http://groups.google.com
Lines: 50
Message-ID: <1181540882.698659.133650@h2g2000hsg.googlegroups.com>
NNTP-Posting-Host: 86.141.224.125
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1181540882 18200 127.0.0.1 (11 Jun 2007 05:48:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 11 Jun 2007 05:48:02 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h2g2000hsg.googlegroups.com; posting-host=86.141.224.125;
posting-account=7vRsuQwAAADlh58wGAIfEFYQRw36eW7d
Xref: g2news1.google.com rec.radio.amateur.homebrew:13482
rec.radio.amateur.boatanchors:11884 rec.radio.amateur.equipment:12176
sci.electronics.basics:55003 sci.astro.amateur:81489

SolderSmoke!
A SHOW FOR ELECTRONICS HOMEBREWERS!

http://www.soldersmoke.com

Listen at: http://www.soldersmoke.com

SolderSmoke #62

June 10, 2007

WHY WE BUILD: Opposable thumbs and soldering
irons.
'Scopes, bandwidth, and clean sigs.
Power Supply project: The Soul of A New Machine. Mississippi
Oscillations.
My Wabi-Sabi shack.
Metal work.
NEW FEATURE: CLUB TALK -- a visit to the meeting of the New South
Wales Homebrew Group.
MAILBAG: Steve, WN0PWK. Dov, AD0V. Seth, W8FG. Dennis, KC0IFQ.

Tired of listening to Santana or NPR on your
I-Pod?   Wouldn't you like to be able to carry with
you the kinds of ham radio conversations that you
listen to while in your radio shack? Tune in to SolderSmoke!

RSS FEED: You can subscribe to the program, have
them downloaded to your MP-3 player, and listen to
them at your convenience. To subscribe, just cut and
paste this URL into your I-poder (or similar)
software.
http://www.soldersmoke.com/soldersmoke.rss

If you don't have an MP3 player you can just go to the
site below and listen to the latest program (and
earlier editions) using the audio software on your
computer.

http://www.soldersmoke.com

All the programs are available here.

I hope you enjoy the program. Please send us
feedback.

73 from London
Bill M0HBR N2CQR CU2JL
http://www.gadgeteer.us

From 6040678932984955876
X-Google-Thread: fc2a5,cd130940d2940ea6,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!news-
out2.kabelfoon.nl!newsfeed.kabelfoon.nl!xindi.nntp.kabelfoon.nl!nntp.idg.pl!
newsfeed.gazeta.pl!news.onet.pl!not-for-mail
From: MAc <mac_dx@tosiewytnie.poczta.onet.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: AGC problem - ad600/ad8307
Date: Mon, 11 Jun 2007 13:12:10 +0200
Organization: x
Lines: 21
Message-ID: <f4jama$3u6$1@news.onet.pl>
Reply-To: mac_dx@tosiewytnie.poczta.onet.pl
NNTP-Posting-Host: gns26.internetdsl.tpnet.pl
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-2; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.onet.pl 1181560338 4038 83.3.96.26 (11 Jun 2007 11:12:18 GMT)
X-Complaints-To: usenet@news.onet.pl
NNTP-Posting-Date: Mon, 11 Jun 2007 11:12:18 +0000 (UTC)

X-Sender: tziRau1SlJeRbF6OI/pJQplh44CxR6pL
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
Xref: g2news1.google.com rec.radio.amateur.homebrew:13483

Hi All

Idea
IF amp. 9MHz - single ad600 working in sequential mode, AGC realized with AD8307 and opamp (http://www.mydarc.de/dc4ku/S_Meter.pdf - bild1)
control voltage for AGC realized with TL431 similar to cdg2000.

Problems
1. - find a simplest way to implement a manual IF control. ("manual" does NOT mean turning off AGC but possibility to change amplification)

How? Change a control voltage? add a manual regulated stage??? How to realize threshold?

2. How to changing a time constant of AGC

Any directions or ideas? (www?)

73
MAc

From -2423376435588493350
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out03b.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!uns-out.usenetserver.com!news.usenetserver.com!pc02.usenetserver.com!DIALUPUSA.NET!not-for-mail
From: "Dr.Ace" <Ace@WH2T.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>
Subject: How to make a 3 Dollar Battery Charger
Date: Mon, 11 Jun 2007 13:26:05 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <3b878$466d85ae$4e08769$26562@DIALUPUSA.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 6
X-Trace: 3b878466d85aea14522cc26562
Xref: g2news1.google.com uk.radio.amateur:116058 rec.radio.amateur.misc:36324

rec.radio.amateur.homebrew:13484

3 Dollar lead acid Battery Charger
http://www.alpharubicon.com/elect/3dollarbattggn.htm

  Ace, WH2T

From -3827315329421239734
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out03b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe12.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Proctologically Violated��" <entropic3.14decay@optonline2.718.net>
From: "Proctologically Violated��" <entropic3.14decay@optonline2.718.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>
<3b878$466d85ae$4e08769$26562@DIALUPUSA.NET>
Subject: Re: How to make a 3 Dollar Battery Charger
Lines: 24
Organization: Ind. Party of the PV'd
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <S2gbi.6$ZP6.0@newsfe12.lga>
Date: Mon, 11 Jun 2007 13:58:15 -0400
NNTP-Posting-Host: 67.86.230.83
X-Complaints-To: abuse@cv.net
X-Trace: newsfe12.lga 1181584690 67.86.230.83 (Mon, 11 Jun 2007 10:58:10 MST)
NNTP-Posting-Date: Mon, 11 Jun 2007 10:58:10 MST
Xref: g2news1.google.com uk.radio.amateur:116069 rec.radio.amateur.misc:36325
rec.radio.amateur.homebrew:13485

Very neat! Elegant basic theory at work!
--

Mr. P.V.'d (formerly Droll Troll), Yonkers, NY

Stop Corruption in Congress & Send the Ultimate Message:
Absolutely Vote, but NOT for a Democrat or a Republican.
Ending Corruption in Congress is the *Single Best Way*
to Materially Improve Your Family's Life.
The Solution is so simple--and inexpensive!

entropic3.14decay at optonline2.718 dot net; remove pi and e to reply--ie,
all d'numbuhs

"Dr.Ace" <Ace@WH2T.com> wrote in message
news:3b878$466d85ae$4e08769$26562@DIALUPUSA.NET...
>3 Dollar lead acid Battery Charger
> http://www.alpharubicon.com/elect/3dollarbattggn.htm
>
> Ace, WH2T
>
>

From 6101437584754034520
X-Google-Thread: fc2a5,cd130940d2940ea6
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d30g2000prg.googlegroups.com!not-for-mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: AGC problem - ad600/ad8307
Date: Tue, 12 Jun 2007 22:12:33 -0700
Organization: http://groups.google.com
Lines: 42
Message-ID: <1181711553.683170.14200@d30g2000prg.googlegroups.com>
References: <f4jama$3u6$1@news.onet.pl>
NNTP-Posting-Host: 222.155.189.220
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1181711554 5755 127.0.0.1 (13 Jun 2007 05:12:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 13 Jun 2007 05:12:34 +0000 (UTC)
In-Reply-To: <f4jama$3u6$1@news.onet.pl>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d30g2000prg.googlegroups.com; posting-host=222.155.189.220;
   posting-account=0vCTfAwAAACvA6pNXnot7Fa7QcUC1A3e
Xref: g2news1.google.com rec.radio.amateur.homebrew:13486

Hi MAc,

Can you give more examples of what you mean by "manual IF control", I
don't understand what you want to do.

Do you want to:
- Adjust overall dynamic range ?
- Adjust centre frequency ?
- Keep current dynamic range, but apply an offset ?

- etc

Do you have an English translation of your paper ? it looks most
interesting.

Regards,

Mark

On Jun 11, 11:12 pm, MAc <mac...@tosiewytnie.poczta.onet.pl> wrote:
> Hi All
>
> Idea
> IF amp. 9MHz - single ad600 working in sequential mode, AGC realized
> with AD8307 and opamp (http://www.mydarc.de/dc4ku/S_Meter.pdf-
> bild1)
> control voltage for AGC realized with TL431 similar to cdg2000.
>
> Problems
> 1. - find a simplest way to implement a manual IF control. ("manual"
> does NOT mean turning off AGC but possibility to change amplification)
>
> How? Change a control voltage? add a manual regulated stage??? How to
> realize threshold?
>
> 2. How to changing a time constant of AGC
>
> Any directions or ideas? (www?)
>
> 73
> MAc

From -8155364921284834630
X-Google-Thread: fc2a5,cd130940d2940ea6
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.nask.pl!
news.nask.org.pl!news.cyf-kr.edu.pl!agh.edu.pl!news.agh.edu.pl!news.onet.pl!not-
for-mail
From: MAc <mac_dx@tosiewytnie.poczta.onet.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: AGC problem - ad600/ad8307
Date: Wed, 13 Jun 2007 13:18:46 +0200
Organization: x
Lines: 21
Message-ID: <f4ojqp$jma$1@news.onet.pl>
References: <f4jama$3u6$1@news.onet.pl>
<1181711553.683170.14200@d30g2000prg.googlegroups.com>
Reply-To: mac_dx@tosiewytnie.poczta.onet.pl

NNTP-Posting-Host: gns26.internetdsl.tpnet.pl
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.onet.pl 1181733552 20170 83.3.96.26 (13 Jun 2007 11:19:12 GMT)
X-Complaints-To: usenet@news.onet.pl
NNTP-Posting-Date: Wed, 13 Jun 2007 11:19:12 +0000 (UTC)
X-Sender: tziRau1SlJeRbF6OI/pJQplh44CxR6pL
In-Reply-To: <1181711553.683170.14200@d30g2000prg.googlegroups.com>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
Xref: g2news1.google.com rec.radio.amateur.homebrew:13487

Hi Mark.
I haven't English translations, only German text

> Can you give more examples of what you mean by "manual IF control", I
> don't understand what you want to do.

:-) What do I want, hmm
1. Realize and adjust threshold - You see, that it is simple detector
wirhout threshold
2. Adjust time constant of AGC
3. KNOW how to realize IF GAIN (any way) - I dont know what is the best
way - may be offset, may be additional stage, may be czanging the
dynamic range - I am just seeking informations.
What ist the way used in commertial gear? - AGC is stilll working but
amplification can be changed.

Best
MAc

PS I have also an article from FunkAmateur Januar 2005. If you want I
can send you.

From 7118467350459324913
X-Google-Thread: fc2a5,cd130940d2940ea6
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o11g2000prd.googlegroups.com!not-for-mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: AGC problem - ad600/ad8307
Date: Wed, 13 Jun 2007 11:10:43 -0700
Organization: http://groups.google.com
Lines: 39
Message-ID: <1181758243.466832.297590@o11g2000prd.googlegroups.com>
References: <f4jama$3u6$1@news.onet.pl>
   <1181711553.683170.14200@d30g2000prg.googlegroups.com>
   <f4ojqp$jma$1@news.onet.pl>
NNTP-Posting-Host: 222.155.189.220
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1181758244 9613 127.0.0.1 (13 Jun 2007 18:10:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 13 Jun 2007 18:10:44 +0000 (UTC)
In-Reply-To: <f4ojqp$jma$1@news.onet.pl>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o11g2000prd.googlegroups.com; posting-host=222.155.189.220;
   posting-account=0vCTfAwAAACvA6pNXnot7Fa7QcUC1A3e
Xref: g2news1.google.com rec.radio.amateur.homebrew:13488

Hi MAc,

Take a look at the AD8367 variable gain amplifier. Watch out for the input impedence of 200 ohms. Should be easy to match to 50 ohms using a 2:1 bifilar tranformer.

Is that the sort of device that you are looking for ?

Regards,

Mark

PS Thanks for the offer of the article, is it in English ?

On Jun 13, 11:18 pm, MAc <mac...@tosiewytnie.poczta.onet.pl> wrote:
> Hi Mark.
> I haven't English translations, only German text
>
> > Can you give more examples of what you mean by "manual IF control", I
> > don't understand what you want to do.
>
> :-) What do I want, hmm
> 1. Realize and adjust threshold - You see, that it is simple detector
> wirhout threshold
> 2. Adjust time constant of AGC
> 3. KNOW how to realize IF GAIN (any way) - I dont know what is the best
> way - may be offset, may be additional stage, may be czanging the
> dynamic range - I am just seeking informations.
> What ist the way used in commertial gear? - AGC is stilll working but
> amplification can be changed.
>
> Best
> MAc
>
> PS I have also an article from FunkAmateur Januar 2005. If you want I
> can send you.

From 4642884529966232242
X-Google-Thread: fc2a5,cd130940d2940ea6
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder1-2.proxad.net!proxad.net!feeder1-1.proxad.net!ecngs!feeder.ecngs.de!newsfeed.freenet.de!newsfeed00.sul.t-online.de!t-online.de!news.nask.pl!news.nask.org.pl!news.cyf-kr.edu.pl!agh.edu.pl!news.agh.edu.pl!news.onet.pl!not-for-mail
From: MAc <mac_dx@tosiewytnie.poczta.onet.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: AGC problem - ad600/ad8307
Date: Wed, 13 Jun 2007 22:47:59 +0200
Organization: x
Lines: 20
Message-ID: <f4pl5v$v87$1@news.onet.pl>
References: <f4jama$3u6$1@news.onet.pl>
<1181711553.683170.14200@d30g2000prg.googlegroups.com>
<f4ojqp$jma$1@news.onet.pl>
<1181758243.466832.297590@o11g2000prd.googlegroups.com>
Reply-To: mac_dx@tosiewytnie.poczta.onet.pl
NNTP-Posting-Host: gns26.internetdsl.tpnet.pl
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.onet.pl 1181767712 32007 83.3.96.26 (13 Jun 2007 20:48:32 GMT)
X-Complaints-To: usenet@news.onet.pl
NNTP-Posting-Date: Wed, 13 Jun 2007 20:48:32 +0000 (UTC)
X-Sender: tziRau1SlJeRbF6OI/pJQplh44CxR6pL
In-Reply-To: <1181758243.466832.297590@o11g2000prd.googlegroups.com>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
Xref: g2news1.google.com rec.radio.amateur.homebrew:13489

> Take a look at the AD8367 variable gain amplifier.

Interesting, thanks

As i wrote i have an IF amplifier based on AD600. Two stages are working in sequential mode. It is working very good.
An AGC detector with ad8307 is also workink good - but i need change my current linear characteristic of AGC to charakteristic with threshold.
Now I can only change a slope of LINEAR characteristic - and i need to change more parameters.

> PS Thanks for the offer of the article, is it in English ?

Sorry, It is in German too, but most important informations are in application note of ad8307 page21 - very interesting 120dB AGC system.
Similar to used by w7zoi.

73
MAc

From 2545088673387733097
X-Google-Thread: fc2a5,d1637b1e89fa3994,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!wn14feed!
worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: MIL SURPLUS NOS parts
Lines: 25
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <pl%bi.83089$Sa4.47025@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: 89e184fa250ac7de2cc17475d8026df5
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1181778389
89e184fa250ac7de2cc17475d8026df5 (Wed, 13 Jun 2007 23:46:29 GMT)
NNTP-Posting-Date: Wed, 13 Jun 2007 23:46:29 GMT
Organization: AT&T Worldnet
Date: Wed, 13 Jun 2007 23:46:29 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13490

I have a quantity of NOS Military surplus items listed here before going to the BIG 'E' :

34 WATT, WW, 140 OHM 4" L x .75" DIA. --IN ORIGINAL BOXES. HAVE 100+

100K OHM POTS -NOT LINEAR (IE: 50% TURN DOES NOT GIVE 50% OF VALUE), USES A BAND OR WIRE WHICH IS SHORTED AS THE SHAFT IS TURNED. 3"L .250 SHAFT. HAVE 100+

SPRAGUE KOOLOHM 5W, 15K HAVE 30+

Will also have a few 1M + AC SWITCH, and an additional value coming.

1.5MF AT 250 VAC, HAVE 9

2 MF AT 600VDC, CD HAVE A VERY FEW

30 WATT, WW, 8K COMING

Can supply 1 to max number I have. Make offer- pay by MO, check, Pay Pal.

Advise of ur interest: heytubeguy@yahoo.com

```
From 1074468700102197722
X-Google-Thread: fc2a5,171d4f54318dbf0b
X-Google-Thread: 111d0a,171d4f54318dbf0b
X-Google-Thread: 108ff0,171d4f54318dbf0b
X-Google-Thread: 110694,171d4f54318dbf0b
X-Google-Thread: 107cee,171d4f54318dbf0b
X-Google-Attributes:
gidfc2a5,gid111d0a,gid108ff0,gid110694,gid107cee,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!x35g2000prf.googlegroups.com!not-for-
mail
From:  Marra <cresswellavenue@talktalk.net>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,alt.music.makers.electronic,rec.
music.makers.guitar,sci.electronics.misc
Subject: Re: radio shielding?
Date: Wed, 13 Jun 2007 18:02:42 -0700
Organization: http://groups.google.com
Lines: 28
Message-ID: <1181782962.182562.290920@x35g2000prf.googlegroups.com>
References: <1180545505.579295.88730@g4g2000hsf.googlegroups.com>
NNTP-Posting-Host: 89.241.39.240
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1181782962 6974 127.0.0.1 (14 Jun 2007 01:02:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 14 Jun 2007 01:02:42 +0000 (UTC)
In-Reply-To: <1180545505.579295.88730@g4g2000hsf.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.4)
Gecko/20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: x35g2000prf.googlegroups.com; posting-host=89.241.39.240;
   posting-account=1pvFxg0AAADez7KFLwh27kLjDT-YAgeN
Xref: g2news1.google.com rec.radio.amateur.homebrew:13491
sci.electronics.basics:55098 alt.music.makers.electronic:1466
rec.music.makers.guitar:28417 sci.electronics.misc:15999

On 30 May, 18:18, Mad Scientist Jr <usenet_daugh...@yahoo.com> wrote:
> I am building an amplifier
>
> (for schematic see page 5 here:http://makezine.com/09/crackerboxamp/
> )
>
> but when I turn up the gain, I get buzz and can actually hear some
> radio broadcasts on it.
>
> I assume I need to shield the circuit, or parts of it...
>
> Would lining the inside of the project case (in this case a cardboard
> cracker box) with aluminum foil work?
>
```

> Incidentally, does anyone know if someone makes a type of "shielding"
> spray paint or primer, that you could just spray on a plastic or
> cardboard project box, that would provide shielding?
>
> Any help appreciated...

I would firstly put a cap on the input to short out radio frequencies to ground.
220pf from signal in to ground works well for me.
Ground the case too if its metal.

```
From -2323698288513416422
X-Google-Thread: 1109af,6ad9b7b15c6b37a9,start
X-Google-Thread: 107ada,6ad9b7b15c6b37a9,start
X-Google-Thread: 107cee,6ad9b7b15c6b37a9,start
X-Google-Thread: f4e7d,6ad9b7b15c6b37a9,start
X-Google-Thread: 1130cb,6ad9b7b15c6b37a9,start
X-Google-Thread: fc2a5,6ad9b7b15c6b37a9,start
X-Google-Thread: fc8b1,6ad9b7b15c6b37a9,start
X-Google-Thread: 10b9c8,6ad9b7b15c6b37a9,start
X-Google-Attributes:
gid1109af,gid107ada,gid107cee,gidf4e7d,gid1130cb,gidfc2a5,gidfc8b1,gid10b9c8,publi
c,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!bloom-beacon.mit.edu!senator-bedfellow.mit.edu!dreaderd!not-
for-mail
Newsgroups:
rec.radio.swap,rec.radio.amateur.misc,sci.electronics.misc,ne.forsale,ne.general,r
ec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.info
Subject: ** FLEA at MIT **     Sunday June 17th    Cambridge MA
Summary: Buy Sell SWAP Ham Radio  Electronics Computers 9AM - 2PM
Expires: 6/21/07
Followup-To: poster
Approved: rec-radio-info@panix.com
Distribution: na
Organization: Massachvsetts Institvte of Technology
Keywords: Hamfest Fleamarket SWAPFEST  Computers Ham Radio Electronics
From: w1gsl@mit.edu (Steven L. Finberg)
Date: 14 Jun 2007 07:53:40 GMT
Lines: 132
Message-ID: <4670f404$0$502$b45e6eb0@senator-bedfellow.mit.edu>
NNTP-Posting-Host: SCRUBBING-BUBBLES.MIT.EDU
X-Trace: 1181807620 senator-bedfellow.mit.edu 502 18.7.18.74
Xref: g2news1.google.com rec.radio.swap:16606 rec.radio.amateur.misc:36343
sci.electronics.misc:16004 ne.forsale:1873 ne.general:16607
rec.radio.amateur.homebrew:13492 rec.radio.amateur.boatanchors:11919
rec.radio.info:347
```

This comming Sunday...

+++ Now even more Buyers Parking !!!
Thanks to Shire we have use of their new parking lot across Albany St from the SWAPFEST !!!

!! ** More Buyers PARKING is available ** for details see
http://web.mit.edu/w1gsl/Public/flyer

*** !!!! In our Traditional GARAGE and the adjacent lot !!!! ****
so come rain or shine or super heat the Flea is on !!!

********* $1 buyers discount with hardcopy of this notice ********

COMPUTERS - ELECTRONICS - HAM RADIO - COMPUTERS - ELECTRONICS - HAM RADIO

FLEA all SUMMER at MIT
Sunday June 17th 2007
9AM-2PM

Come to the city for a great flea - plenty of free parking.

MIT's electronics and ham radio flea will take place on the third Sunday of each month this summer, April thru October.

There is tailgate space for over 600 sellers and free, off-street parking for >2000 cars!

Buyers admission is $5 (you get $1 off if you're lucky enough to have a copy of our ad) and sellers spaces are $20 for the first and $15 for each additional at the gate.

The flea will be held at the corner of Albany and Main streets in Cambridge; right in the Kendall Square area from 9AM to 2PM, with sellers set-up time starting at 7AM.

SEASON PASS + Advance Seller Discount

A sellers discount season pass is available which offers a 30% discount. By prepaying you get a discount and earlier admission. See the registration form.

*** Attention Sellers ***
Prepaid vendors.. Season Pass or monthly, will be admitted FIRST.
Separate lines will form prior to gate opening for prepaid and nonprepaid vendors

!! RAIN or SHINE !! Have no fear of rain, a covered

well illuminated tailgate area is available for all
sellers (6'8" clearance).

Talk-in: 145.23- (PL 88.5) W1BOS/R and
W1XM/R-449.725/444.725 (PL 114.8/2A).

Sponsors: MIT Electronics Research Society
MIT UHF Repeater Association (W1XM)
MIT Radio Society (W1MX)
Harvard Wireless Club (W1AF)

For more info / advanced reservations 617 253 3776

********** $1 buyers discount with hard copy of this notice ************

<<<<<<<<<<<<<<<<<<<<<<<< cut here >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Mail the coupon below by the 5th of the month to be a Prepaid Vendor.

FLEA at MIT 2007 Rates

SELLERS

To use your prepaid spaces the named vendor MUST be present.
Rates include one admission per space.

Advance $17 First space
$12 Additional Spaces
Must be received by the 5th of the month.

Gate Admission $20 First Space
$15 Additional Spaces
Admission is after the prepaid vendors

Early Bird Buyer -Admission after the prepaid vendor line is admitted. ~ 7:15AM
** You may not sell. **
$15 per person at the gate.

****************************** cut here *******************************

FLEA at MIT 2007 Advance Space Application

____April ____May ____June ____ July ____Aug ___Sept ____Oct
@ $17 for the first each month + $12 each additional

Name ________________________ Call __________ $ Included______

Address ________________________ Phone __________ Make Check to
The MIT Radio Society
City ____________________ State _______ Zip _______ PO Box 397082
Cambridge MA 02139

E-mail ____

```
********************************************************************************
Steve Finberg                      W1GSL                       w1gsl@mit.edu
PO Box 82 MIT Br           Cambridge MA  02139-7082             617 258 3754
********************************************************************************
```

```
From 2080417546871912242
X-Google-Thread: fc2a5,95193fb65a831a96,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!news-
in-02.newsfeed.easynews.com!easynews.com!easynews!sn-xt-sjc-03!sn-xt-sjc-08!sn-
post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Online Homebrew HF Receiver
Date: Thu, 14 Jun 2007 13:19:40 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13731j5jp79s76e@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 36
Xref: g2news1.google.com rec.radio.amateur.homebrew:13493
```

Greetings:

Homebrew online HF receiver located at approx. lat. 46.8, lon. -92.1 is now accessible at:

http://www.cybertheque.org/homebrew/rcvr

Receiver controls are realtime, not transaction based, and audio is also realtime, not delayed in an mpeg stream. You will need voip (SIP) capability to hear the audio until I am able to include a java rtp client in the web page.

If you do not already have a SIP service provider, a free account may be created at:

http://www.iptel.org/service

The web pages will add features as the project develops and the receiver controls will add capabilities beyond the basic ones currently implemented.

Currently, there is no queuing of user access so a chat session is provided on the main control page to permit waiting users to coordinate their activities. Also, only one audio connection at a time is currently implemented.

In the future multiple audio connections will be supported and a user login procedure will be used to coordinate access.

Please email me at the address noted on the web pages for questions and feedback.

Regards,

Michael
msg _at_ cybertheque _dot_ org

From -5142183405952491148
X-Google-Thread: fc2a5,95193fb65a831a96
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
cyclone1.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny05.POSTED!0da99462!
not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <13731j5jp79s76e@corp.supernews.com>
Subject: Re: Online Homebrew HF Receiver
Lines: 44
X-Priority: 3

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <XTjci.6125$hp5.5029@trndny05>
Date: Thu, 14 Jun 2007 23:08:39 GMT
NNTP-Posting-Host: 68.236.11.113
X-Complaints-To: abuse@verizon.net
X-Trace: trndny05 1181862519 68.236.11.113 (Thu, 14 Jun 2007 19:08:39 EDT)
NNTP-Posting-Date: Thu, 14 Jun 2007 19:08:39 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13494

Looks interesting....what can you tell us about it???

"msg" <msg@_cybertheque.org_> wrote in message
news:13731j5jp79s76e@corp.supernews.com...
> Greetings:
>
> Homebrew online HF receiver located at approx. lat. 46.8,
> lon. -92.1 is now accessible at:
>
>   http://www.cybertheque.org/homebrew/rcvr
>
> Receiver controls are realtime, not transaction based, and
> audio is also realtime, not delayed in an mpeg stream.
> You will need voip (SIP) capability to hear the audio until I
> am able to include a java rtp client in the web page.
>
> If you do not already have a SIP service provider, a free
> account may be created at:
>
>   http://www.iptel.org/service
>
> The web pages will add features as the project develops and
> the receiver controls will add capabilities beyond the basic
> ones currently implemented.
>
> Currently, there is no queuing of user access so a chat session
> is provided on the main control page to permit waiting users
> to coordinate their activities. Also, only one audio connection
> at a time is currently implemented.
>
> In the future multiple audio connections will be supported and
> a user login procedure will be used to coordinate access.
>
> Please email me at the address noted on the web pages for
> questions and feedback.
>
> Regards,
>
> Michael

> msg _at_ cybertheque _dot_ org

From 1101613705097635856
X-Google-Thread: fc2a5,95193fb65a831a96
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-05!sn-xt-sjc-11!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Online Homebrew HF Receiver
Date: Fri, 15 Jun 2007 09:09:52 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13757aqq54u0m36@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <13731j5jp79s76e@corp.supernews.com> <XTjci.6125$hp5.5029@trndny05>
In-Reply-To: <XTjci.6125$hp5.5029@trndny05>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 94
Xref: g2news1.google.com rec.radio.amateur.homebrew:13495

> "msg" <msg@_cybertheque.org_> wrote in message
>> Homebrew online HF receiver located at approx. lat. 46.8,
>> lon. -92.1 is now accessible at:
>>
>>   http://www.cybertheque.org/homebrew/rcvr

W3JDR wrote:
> Looks interesting....what can you tell us about it???
>

Thanks for asking; I have not had the opportunity to yet measure the receiver's performance (noise figure, IMD, sensitivity, etc.) and while the design is still evolving the current leading particulars are:

1. Dual conversion from 1Hz to 75Mhz, with frontend passband currently 140kHz to 30Mhz, traps for local FM RFI, 50 ohm nominal input impedance, selectable RF amps.

2. 1st IF 55,850 kHz, 2nd IF 455 kHz, two filters ~2 kHz for SSB and 5 kHz AM.

3. 1st LO is a programmable PLL with a wide variety of step sizes and large dynamic range; I am using 2kHz steps and a range from 55,851 kHz to 131,068 kHz and a 16-bit resolution.

4. 2nd LO varactor tuned xtal osc. at 55,395 kHz with a >2kHz dynamic range, 13-bit tuning resolution (1 Hz) using a 3-bit DAC to select one of eight 10-bit segments tuned by a PWM through a 3rd order LPF with 10Hz 3db bandwidth. The mcu handles the tuning of the LOs to permit a continuous 1Hz resolution over the receiver's range. Tempcos of components are yet to be analyzed but stability has been quite good (within 1Hz/day). Auto calibration will be implemented but for now tuning errors may be up to 30Hz and can be measured against WWV which at this time of year at this QTH is heard nearly continuously on 2.5, 5, 10 and often 15 MHz.

5. IF frequency counter, 20-bit, with selectable prescaling, used for tuning centering, ersatz synch det. on AM, etc.

6. Product det. for CW/SSB, discrim. for FM (I anticipate implementing FM as a selectable mode on 6m and above when I do the proper front end changes). The tuning scheme currently centers BFO in the 2nd IF passband for symmetrical SSB; I may add USB/LSB offsets.

7. RF section is fully enclosed in a tin faraday shield with a number of bypassing schemes; some birdies are still introduced on the digital I/O lines entering this can which I hope to squelch with properly designed LPF.

8. Digital section is also fully enclosed in a tin shield and physically separated from the RF section. I designed it around the Intel 8096 mcu; debugging and programming is facilitated by having an HMI-200 ICE. Operating software is uploaded over an RS-232 port which also serves as the control port for the receiver. The mcu has enough resources to implement features such as ALE, digital modes, spectrum surveillance, etc. but DSP features will be offloaded to dedicated processors.

9. Audio monitor output is 8 ohm with provisions for stereo and a 5000 ohm output feeds the audio stream server.

10. Receiver and antenna are viewed as an integrated system; the antenna is a modified Marconi matched with a 9:1 impedance ratio quadrifilar-wound balun, isolated primary, to a 50 ohm coax feedline. The antenna has a good ground which has a very short lead to the balun ground in the Marconi configuration. The feedline shield is not grounded but is continuous to the receiver chassis which currently is also not grounded (this is very low noise). The feedline is enclosed in plastic pipe and buried 18 inches deep in the soil from the antenna feed to the shack further attenuating noise. The system performs well in a very hostile RFI/EMI environment; our QTH is noted for some of the worst QRN anywhere and the huge antenna farm for broadcasters and public services is on a peak very nearby and causes much grief for radios with less than excellent dynamic range/IMD and selectivity.

So far no one has tuned the receiver or made an audio connection. It is remarkably easy to hear the audio using a SIP user agent (any voip phone that permits dialing SIP URIs such as 'SIP:9202@cybertheque.org'. I had suggested 'firefly' which is what I use, but it only handles numeric URIs (so it must be registered on the callee's SIP proxy server). Instead I recommend a version of X-Lite, which I made available at:

    ftp://ftp.cybertheque.org/pub/xten

This is a Windows SIP softphone which permits dialing our SIP uri from another network, .e.g. iptel.org. Please set up a free account at iptel.org, download and install X-lite, configure it for the iptel.org account, and dial the above URI to hear the audio. Access the web page to control the receiver. At some point I hope to dispense with the need for SIP dialing by including an RTP audio player applet in the web page (such a beast isn't currently available, only JMF heavyweight code which is unsuitable).

Regards,

Michael

From -4957620543312987627
X-Google-Thread: fc2a5,95193fb65a831a96
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!sn-xt-sjc-04!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Online Homebrew HF Receiver
Date: Fri, 15 Jun 2007 09:27:43 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13758c8161q7o27@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <13731j5jp79s76e@corp.supernews.com> <XTjci.6125$hp5.5029@trndny05> <13757aqq54u0m36@corp.supernews.com>
In-Reply-To: <13757aqq54u0m36@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 24
Xref: g2news1.google.com rec.radio.amateur.homebrew:13496

msg wrote:
> > "msg" <msg@_cybertheque.org_> wrote in message
> >> Homebrew online HF receiver located at approx. lat. 46.8,
> >> lon. -92.1 is now accessible at:
> >>
> >>   http://www.cybertheque.org/homebrew/rcvr
> W3JDR wrote:
>
>> Looks interesting....what can you tell us about it???

>>
>
> Thanks for asking; I have not had the opportunity to yet measure
> the receiver's performance (noise figure, IMD, sensitivity, etc.)
> and while the design is still evolving the current leading
> particulars are:
>

I forgot to mention the AGC; various time constants are
selectable and signal strength is read by the ADC in the mcu
for S-meter and link-quality data.

Regards,

Michael

From 9112277385666903048
X-Google-Thread: fc2a5,95193fb65a831a96
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!sn-xt-sjc-05!sn-xt-sjc-06!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Online Homebrew HF Receiver
Date: Fri, 15 Jun 2007 10:20:25 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1375bf2apg2mga8@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <13731j5jp79s76e@corp.supernews.com>
In-Reply-To: <13731j5jp79s76e@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 37
Xref: g2news1.google.com rec.radio.amateur.homebrew:13497

msg wrote:
>
> Homebrew online HF receiver located at approx. lat. 46.8,
> lon. -92.1 is now accessible at:
>
>   http://www.cybertheque.org/homebrew/rcvr
>

I would like to clarify how my online interface is
different from the 'web controlled receiver' RCSweb
(N30EA) interface commonly used for Internet access,
which may make it worthwhile to take the time to

configure a SIP client to hear the audio. The RCSweb interface posts commands from web forms to the radio to make settings; the user fills out a form and waits for the results to appear at the receiver, often the user must 'reload' the web page to see if his settings were honored. Most often the audio is streamed using mp3 encoding and suffers from buffering delays of many (up to 30) seconds as well as network QoS latencies. There is no provision for hands-on tuning as you would do if you were physically at the receiver.

My interface provides an interactive hands-on receiver tuning and controlling session; there are no forms to fill out, no page refreshes required and no waiting or latencies for settings to take effect. The audio is streamed in real time so that you immediately hear the results of your control of the receiver.

My thanks to those who will try this and provide some feedback of their experiences.

Regards,

Michael

From -1603118776520226380
X-Google-Thread: fc2a5,95193fb65a831a96
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe23.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <13731j5jp79s76e@corp.supernews.com>
<1375bf2apg2mga8@corp.supernews.com>
Subject: Re: Online Homebrew HF Receiver
Lines: 6
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
Message-ID: <rKCci.146857$NK5.43684@newsfe23.lga>
Date: Fri, 15 Jun 2007 16:34:40 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe23.lga 1181939735 68.0.230.122 (Fri, 15 Jun 2007 13:35:35 MST)
NNTP-Posting-Date: Fri, 15 Jun 2007 13:35:35 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13498

You should consider contributing an article
to QEX.

Pete k1zjh

From 8527770253823972971
X-Google-Thread: fc2a5,95193fb65a831a96
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc08.POSTED!0da99462!not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <13731j5jp79s76e@corp.supernews.com> <XTjci.6125$hp5.5029@trndny05>
<13757aqq54u0m36@corp.supernews.com>
Subject: Re: Online Homebrew HF Receiver
Lines: 113
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Message-ID: <IEEci.65$tI5.37@trnddc08>
Date: Fri, 15 Jun 2007 22:46:00 GMT
NNTP-Posting-Host: 68.236.11.113
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc08 1181947560 68.236.11.113 (Fri, 15 Jun 2007 18:46:00 EDT)
NNTP-Posting-Date: Fri, 15 Jun 2007 18:46:00 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13499
X-Original-Bytes: 6284

Very well thought out, and a fine piece of homebrewing.

The suggestion about writing a QEX article is right on. I'd sure like to
learn more.

Keep us informed

Joe
W3JDR

"msg" <msg@_cybertheque.org_> wrote in message
news:13757aqq54u0m36@corp.supernews.com...
> > "msg" <msg@_cybertheque.org_> wrote in message
> >> Homebrew online HF receiver located at approx. lat. 46.8,

> >> lon. -92.1 is now accessible at:
> >>
> >>   http://www.cybertheque.org/homebrew/rcvr
> W3JDR wrote:
>> Looks interesting....what can you tell us about it???
>>
>
> Thanks for asking; I have not had the opportunity to yet measure
> the receiver's performance (noise figure, IMD, sensitivity, etc.)
> and while the design is still evolving the current leading
> particulars are:
>
> 1. Dual conversion from 1Hz to 75Mhz, with frontend passband
>   currently 140kHz to 30Mhz, traps for local FM RFI, 50 ohm nominal
>   input impedance, selectable RF amps.
>
> 2. 1st IF 55,850 kHz, 2nd IF 455 kHz, two filters ~2 kHz for SSB
>   and 5 kHz AM.
>
> 3. 1st LO is a programmable PLL with a wide variety of step sizes
>   and large dynamic range; I am using 2kHz steps and a range from
>   55,851 kHz to 131,068 kHz and a 16-bit resolution.
>
> 4. 2nd LO varactor tuned xtal osc. at 55,395 kHz with a >2kHz dynamic
>   range, 13-bit tuning resolution (1 Hz) using a 3-bit DAC to select
>   one of eight 10-bit segments tuned by a PWM through a 3rd order LPF
>   with 10Hz 3db bandwidth. The mcu handles the tuning of the
>   LOs to permit a continuous 1Hz resolution over the receiver's range.
>   Tempcos of components are yet to be analyzed but stability has been
>   quite good (within 1Hz/day). Auto calibration will be implemented
>   but for now tuning errors may be up to 30Hz and can be measured
>   against WWV which at this time of year at this QTH is heard
>   nearly continuously on 2.5, 5, 10 and often 15 MHz.
>
> 5. IF frequency counter, 20-bit, with selectable prescaling, used for
>   tuning centering, ersatz synch det. on AM, etc.
>
> 6. Product det. for CW/SSB, discrim. for FM (I anticipate implementing
>   FM as a selectable mode on 6m and above when I do the proper front
>   end changes). The tuning scheme currently centers BFO in the 2nd
>   IF passband for symmetrical SSB; I may add USB/LSB offsets.
>
> 7. RF section is fully enclosed in a tin faraday shield with a number
>   of bypassing schemes; some birdies are still introduced on the digital
>   I/O lines entering this can which I hope to squelch with properly
>   designed LPF.
>
> 8. Digital section is also fully enclosed in a tin shield and physically
>   separated from the RF section. I designed it around the Intel 8096
>   mcu; debugging and programming is facilitated by having an HMI-200 ICE.
>   Operating software is uploaded over an RS-232 port which also serves
>   as the control port for the receiver. The mcu has enough resources
>   to implement features such as ALE, digital modes, spectrum

```
> surveillance,
>    etc. but DSP features will be offloaded to dedicated processors.
>
> 9. Audio monitor output is 8 ohm with provisions for stereo and a 5000 ohm
>    output feeds the audio stream server.
>
> 10. Receiver and antenna are viewed as an integrated system; the antenna
>     is a modified Marconi matched with a 9:1 impedance ratio quadrifilar-
>     wound balun, isolated primary, to a 50 ohm coax feedline. The antenna
>     has a good ground which has a very short lead to the balun ground
>     in the Marconi configuration. The feedline shield is not grounded but
>     is continuous to the receiver chassis which currently is also not
>     grounded (this is very low noise).  The feedline is enclosed in
>     plastic pipe and buried 18 inches deep in the soil from the antenna
>     feed to the shack further attenuating noise.  The system performs
>     well in a very hostile RFI/EMI environment; our QTH is noted for
>     some of the worst QRN anywhere and the huge antenna farm for
> broadcasters
>     and public services is on a peak very nearby and causes much grief
>     for radios with less than excellent dynamic range/IMD and selectivity.
>
> So far no one has tuned the receiver or made an audio connection. It is
> remarkably easy to hear the audio using a SIP user agent (any voip phone
> that permits dialing SIP URIs such as 'SIP:9202@cybertheque.org'.  I had
> suggested 'firefly' which is what I use, but it only handles numeric URIs
> (so it must be registered on the callee's SIP proxy server). Instead I
> recommend a version of X-Lite, which I made available at:
>
>    ftp://ftp.cybertheque.org/pub/xten
>
> This is a Windows SIP softphone which permits dialing our SIP uri from
> another network, .e.g. iptel.org.  Please set up a free account at
> iptel.org,
> download and install X-lite, configure it for the iptel.org account, and
> dial the above URI to hear the audio.  Access the web page to control the
> receiver.  At some point I hope to dispense with the need for SIP dialing
> by including an RTP audio player applet in the web page (such a beast
> isn't currently available, only JMF heavyweight code which is unsuitable).
>
> Regards,
>
> Michael




From -8806215658621241742
X-Google-Thread: fc2a5,6cd74e1a9c82c8d3,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o61g2000hsh.googlegroups.com!not-for-
mail
From:  =?iso-8859-1?B?Rm9y52FDZWx0YQ==?= <erasmo1982@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: About a narrow filter at 10.7 MHz
Date: Sun, 17 Jun 2007 06:07:04 -0700
Organization: http://groups.google.com
Lines: 8
Message-ID: <1182085624.238984.128540@o61g2000hsh.googlegroups.com>
NNTP-Posting-Host: 80.103.184.182
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1182085624 28053 127.0.0.1 (17 Jun 2007 13:07:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 17 Jun 2007 13:07:04 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; es-ES; rv:1.8.1.4) Gecko/
20060911 SUSE/2.0.0.4-1.1 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o61g2000hsh.googlegroups.com; posting-host=80.103.184.182;
   posting-account=jbtQWQ0AAAB5-E77d5ka8UTjZA5Ss34R
Xref: g2news1.google.com rec.radio.amateur.homebrew:13500

Hello,
I am designing a radio receiver and I need a narrow filter in the FI
stage,
at 10.7 MHz, in order to filter a single carrier.
Anybody could tell me where to get information about designing ladder
filters?
Thanks :)



From -9135687055709951351
X-Google-Thread: fc2a5,95193fb65a831a96
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
X-FeedAbuse: http://nntpfeed.proxad.net/ feeded by 88.191.28.29
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
nntpfeed.proxad.net!news.netfinity.fr!news.ecp.fr!feeder1.cambrium.nl!
feed.tweaknews.nl!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-11!sn-xt-ams-03!
sn-post-ams-01!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-
for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Online Homebrew HF Receiver
Date: Sun, 17 Jun 2007 08:41:18 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <137aed5aaj8il6c@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <13731j5jp79s76e@corp.supernews.com> <XTjci.6125$hp5.5029@trndny05>
<13757aqq54u0m36@corp.supernews.com> <IEEci.65$tI5.37@trnddc08>
In-Reply-To: <IEEci.65$tI5.37@trnddc08>
```

```
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 18
Xref: g2news1.google.com rec.radio.amateur.homebrew:13501

 > "msg" <msg@_cybertheque.org_> wrote in message
 > news:13757aqq54u0m36@corp.supernews.com...

W3JDR wrote:
> Very well thought out, and a fine piece of homebrewing.
>
> The suggestion about writing a QEX article is right on. I'd sure like to
> learn more.
>
> Keep us informed
>

Thanks for your encouraging words; I hope to write an article
and do intend to publish more data on the project.

Regards,

Michael



From -7301989630948839501
X-Google-Thread: fc2a5,95193fb65a831a96
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!sn-xt-sjc-03!sn-xt-
sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Online Homebrew HF Receiver
Date: Sun, 17 Jun 2007 08:41:41 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <137aedskq9kkv96@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <13731j5jp79s76e@corp.supernews.com>
<1375bf2apg2mga8@corp.supernews.com> <rKCci.146857$NK5.43684@newsfe23.lga>
In-Reply-To: <rKCci.146857$NK5.43684@newsfe23.lga>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 13
Xref: g2news1.google.com rec.radio.amateur.homebrew:13502

Uncle Peter wrote:
> You should consider contributing an article
```

> to QEX.
>
> Pete k1zjh
>
>

Thanks, I'm working on it.

Regards,

Michael

From -970721243914046323
X-Google-Thread: fc2a5,6cd74e1a9c82c8d3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!
trnddc08.POSTED!0da99462!not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1182085624.238984.128540@o61g2000hsh.googlegroups.com>
Subject: Re: About a narrow filter at 10.7 MHz
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <9ycdi.226$tI5.201@trnddc08>
Date: Sun, 17 Jun 2007 15:36:37 GMT
NNTP-Posting-Host: 68.236.11.113
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc08 1182094597 68.236.11.113 (Sun, 17 Jun 2007 11:36:37 EDT)
NNTP-Posting-Date: Sun, 17 Jun 2007 11:36:37 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13503

Free crystal filter design software here:

http://www.aade.com/filter.htm

Joe
W3JDR

"For�aCelta" <erasmo1982@gmail.com> wrote in message
news:1182085624.238984.128540@o61g2000hsh.googlegroups.com...
> Hello,
> I am designing a radio receiver and I need a narrow filter in the FI

> stage,
> at 10.7 MHz, in order to filter a single carrier.
> Anybody could tell me where to get information about designing ladder
> filters?
> Thanks :)
>

```
From -6739260303265144953
X-Google-Thread: fc2a5,6cd74e1a9c82c8d3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!news.kjsl.com!
ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: About a narrow filter at 10.7 MHz
Date: 17 Jun 2007 16:19:23 GMT
Organization: The National Capital FreeNet
Lines: 35
Message-ID: <f53mub$o02$1@theodyn.ncf.ca>
References: <1182085624.238984.128540@o61g2000hsh.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1182097163 24578 134.117.136.48 (17 Jun 2007 16:19:23 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 17 Jun 2007 16:19:23 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13504
```

=?iso-8859-1?B?Rm9y52FDZWx0YQ==?= (erasmo1982@gmail.com) writes:
> Hello,
> I am designing a radio receiver and I need a narrow filter in the FI
> stage,
> at 10.7 MHz, in order to filter a single carrier.
> Anybody could tell me where to get information about designing ladder
> filters?
> Thanks :)
>

It depends on what you need. Don't forget that the first single signal selectivity came to receivers in the thirties, via a single crystal filter. I'm suddenly blank about the name, but it was a balanced transformer feeding a crystal on one side and a trimmer capacitor on the other. You'd trim out the crystal holder's capacitance with the trimmer. Not perfect skirt, but really great selectivity. Later, variants would appear where load resistors were added to broaden the selectivity for voice.

Much later, you'd see them cascaded, to improve the skirt.

Their big benefit is that you don't have to have more than one crystal frequency, up till ladder filters started making a mark some years back, crystal filters all tended to use crystals separated in frequency by about the required bandwidth. So you'd see these cascaded filters as add-ons, and in the age of solid state, the balanced transformer was replaced with a transistor, with the collector and emitter acting as the two sides of the output winding to drive the crystal and variable capacitor.

For sloppy selectivity, there has been lots about just putting a crystal or ceramic resonator in the cathode of a tube or emitter of a transistor. I'm sure for many applications, that would work fine, and doesn't requre any fussing.

Michael VE2BVW

From 323327217442769381
X-Google-Thread: fc2a5,6cd74e1a9c82c8d3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-
media.com!hw-filter.lga!newsfe18.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1182085624.238984.128540@o61g2000hsh.googlegroups.com>
<f53mub$o02$1@theodyn.ncf.ca>
Subject: Re: About a narrow filter at 10.7 MHz
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <Ncddi.15190$2K1.2491@newsfe18.lga>
Date: Sun, 17 Jun 2007 12:21:06 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe18.lga 1182097325 68.0.230.122 (Sun, 17 Jun 2007 09:22:05 MST)
NNTP-Posting-Date: Sun, 17 Jun 2007 09:22:05 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13505

"Michael Black" <et472@FreeNet.Carleton.CA> wrote in message
news:f53mub$o02$1@theodyn.ncf.ca...
> =?iso-8859-1?B?Rm9y52FDZWx0YQ==?= (erasmo1982@gmail.com) writes:
>> Hello,
>>
> It depends on what you need. Don't forget that the first single signal
> selectivity came to receivers in the thirties, via a single crystal
> filter.

> I'm suddenly blank about the name, but it was a balanced transformer
> feeding a crystal on one side and a trimmer capacitor on the other. You'd
> trim out the crystal holder's capacitance with the trimmer.

Lamb? WAG.

Pete

From 719832749290074331
X-Google-Thread: fc2a5,6cd74e1a9c82c8d3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: About a narrow filter at 10.7 MHz
Date: 17 Jun 2007 16:52:20 GMT
Lines: 26
Message-ID: <slrnf7apm4.g6v.bit-bucket@shell.config.com>
References: <1182085624.238984.128540@o61g2000hsh.googlegroups.com> <f53mub$o02$1@theodyn.ncf.ca> <Ncddi.15190$2K1.2491@newsfe18.lga>
Reply-To: If you must, <Reply_to@my.sig.adr>
X-Trace: individual.net jR5rX2oav7wLJIGrlLYFngzmpav1V1m++XS162tkpqk0DIfHW3
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:13506

On Sun, 17 Jun 2007 12:21:06 -0400, Uncle Peter wrote:
>
> "Michael Black" <et472@FreeNet.Carleton.CA> wrote in message
> news:f53mub$o02$1@theodyn.ncf.ca...
>> =?iso-8859-1?B?Rm9y52FDZWx0YQ==?= (erasmo1982@gmail.com) writes:
>>> Hello,
> >>
>> It depends on what you need. Don't forget that the first single signal
>> selectivity came to receivers in the thirties, via a single crystal
>> filter.
>> I'm suddenly blank about the name, but it was a balanced transformer
>> feeding a crystal on one side and a trimmer capacitor on the other. You'd
>> trim out the crystal holder's capacitance with the trimmer.
>
> Lamb? WAG.

IIRC, that's what the BC-348 employed. My BC-348 has several
inspection stampings dating to circa 1938-39.

73
Jonesy W3DHJ

--

```
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    *** Killfiling google posts: <http://jonz.net/ng.htm>


From -4270861160732794306
X-Google-Thread: fc8b1,1048fa3cc97651c3,start
X-Google-Thread: 108122,1048fa3cc97651c3,start
X-Google-Thread: fc2a5,1048fa3cc97651c3,start
X-Google-Attributes: gidfc8b1,gid108122,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i38g2000prf.googlegroups.com!not-for-
mail
From:  ergo <tw@emailaccount.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebr
ew
Subject: FA: 20 Loktal (Loctal) Tube Sockets, NOS
Date: Mon, 18 Jun 2007 10:35:23 -0700
Organization: http://groups.google.com
Lines: 2
Message-ID: <1182188123.883001.130360@i38g2000prf.googlegroups.com>
NNTP-Posting-Host: 69.230.62.171
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1182188124 10874 127.0.0.1 (18 Jun 2007 17:35:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 18 Jun 2007 17:35:24 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.12)
Gecko/20070508 Firefox/1.5.0.12,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i38g2000prf.googlegroups.com; posting-host=69.230.62.171;
   posting-account=__tLJAwAAABuqVm-lKx_rxJR8p05rKTu
Xref: g2news1.google.com rec.radio.amateur.boatanchors:11944
rec.radio.amateur.equipment:12194 rec.radio.amateur.homebrew:13507

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=320127860910



From -6011574889086388498
X-Google-Thread: fc2a5,6cd74e1a9c82c8d3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 18 Jun 2007 14:36:31 -0500
Date: Mon, 18 Jun 2007 12:41:20 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
```

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: About a narrow filter at 10.7 MHz
References: <1182085624.238984.128540@o61g2000hsh.googlegroups.com>
In-Reply-To: <1182085624.238984.128540@o61g2000hsh.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Message-ID: <EcOdnXwEY6siQ-vbnZ2dnUVZ_qHinZ2d@web-ster.com>
Lines: 28
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-tmnK9BoJLrfpvyCuqjzveJrH89LTTq2AMczlZNI49etaI/
fZCnTHtoyT+D6NDTWmqjt6wQbW9PYxxZB!fz/
G0C8vAiUcjfeEN5YGzHPPqsl2I+n16cRmPxpl+o5xJSuz1LnOsr4aciJm7OIFwV8RkbuR1neV!
lx5VCDGIINGmIa1n
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13508

For�aCelta wrote:
> Hello,
> I am designing a radio receiver and I need a narrow filter in the FI
> stage,
> at 10.7 MHz, in order to filter a single carrier.
> Anybody could tell me where to get information about designing ladder
> filters?
> Thanks :)
>

The latest ARRL handbook comes to mind. Have you web searched?

It is often profitable to choose a frequency at which you can get lots
of inexpensive crystals -- it's often cheaper to buy and sort through a
bag of 50 cheap crystals than it is to order four custom made ones,
unless you're counting the value of your time.

And if you _are_ counting the value of your time, you'll just want to
buy a crystal filter, or a whole dang radio!

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From 8856796774815706537
X-Google-Thread: fc8b1,ae2b82fd73d048a5,start

```
X-Google-Thread: fc2a5,ae2b82fd73d048a5,start
X-Google-Thread: 1109af,ae2b82fd73d048a5,start
X-Google-Attributes: gidfc8b1,gidfc2a5,gid1109af,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feed.cgocable.net!
read1.cgocable.net.POSTED!53ab2750!not-for-mail
From: "Norm VE3CZI" <ve3czi@arrl.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.swap
Subject: Service Manuals Available
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <KBBdi.105800$Y_.25825@read1.cgocable.net>
Date: Mon, 18 Jun 2007 16:07:01 -0400
NNTP-Posting-Host: 24.141.130.191
X-Complaints-To: news@cogeco.net
X-Trace: read1.cgocable.net 1182197226 24.141.130.191 (Mon, 18 Jun 2007 16:07:06
EDT)
NNTP-Posting-Date: Mon, 18 Jun 2007 16:07:06 EDT
Organization: Cogeco Cable
Xref: g2news1.google.com rec.radio.amateur.boatanchors:11946
rec.radio.amateur.homebrew:13509 rec.radio.swap:16645

Have a quantity of Radio Communications Service Manuals, both Commercial &
Amateur that I have rescued from the Dumpster.  Most ot them are in Like New
Condition.

Please check my site:   www.rodemi.com    for what is available. I am
updating the site as time allows.
I recently retired from the Commercial 2-way radio business

Thanks for looking....Norm VE3CZI
Email me Directly:  <insert Call Sign> at arrl.net  ....<call sign> is
ve3czi




From 4412182053377601987
X-Google-Thread: 108122,2a4354c43cde9853,start
X-Google-Thread: fc2a5,2a4354c43cde9853,start
X-Google-Thread: 107ada,2a4354c43cde9853,start
X-Google-Attributes: gid108122,gidfc2a5,gid107ada,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feed.cgocable.net!
read1.cgocable.net.POSTED!53ab2750!not-for-mail
From: "Norm VE3CZI" <ve3czi@arrl.net>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc
```

Subject: FS: Midland 70-340 VHF APRS/Packet Radios
Lines: 28
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Message-ID: <5KBdi.105802$Y_.63100@read1.cgocable.net>
Date: Mon, 18 Jun 2007 16:15:57 -0400
NNTP-Posting-Host: 24.141.130.191
X-Complaints-To: news@cogeco.net
X-Trace: read1.cgocable.net 1182197761 24.141.130.191 (Mon, 18 Jun 2007 16:16:01 EDT)
NNTP-Posting-Date: Mon, 18 Jun 2007 16:16:01 EDT
Organization: Cogeco Cable
Xref: g2news1.google.com rec.radio.amateur.equipment:12195 rec.radio.amateur.homebrew:13510 rec.radio.amateur.misc:36538

$60.00 Each   Midland 70-340 VHF APRS/Packet Radio   [Plus Shipping]

I have a quantity of Commercial Midland 70-340 VHF Mobile Radios 25-30 Watts O/P comes with a Regular Power Connector, Mobile Mounting Bracket and a Midland 70-2301 Palm Mic (which you don't need if you are only using APRS or packet). These radios will work excellent as an APRS Mobile OR Base Radio Station. Using this radio is much cheaper to use for dedicated APRS use rather than spending Large Dollars for a VHF Amateur XCVR and dedicate it to One Channel APRS use. The radio is Programmed and Tested Operational on 144.390 Mhz.

IF you wish the Power Cable pre-wired c/w a DB-9 Male   [ADD $20] > ready to plug into a Tiny Tracker APRS Unit or any External Interface < Schematic Drawing of the Interface Cable is supplied

Midland 70-340 VHF Service Manual available on CD with a Radio [ADD $10] Sold Separately [ADD $15] includes Mailing

These radios are capable of 36 Channels and comes with a CTCSS Board, should you need it.   I can program them for other 2 Meter Frequencies for a charge.   Please ask should you have any questions.

Thanks for looking....Norm VE3CZI
Email me Directly: <insert Call Sign> at arrl.net ....<call sign> is ve3czi

From 349592036865674530
X-Google-Thread: fc2a5,e9d60c5c5edb69a3,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!elnk-nf2-pas!

newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
From: Doug Smith W9WI <w9wi@invalid.nospam>
Subject: HY1417LP datasheet/info?
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.06.19.05.42.57.971504@invalid.nospam>
Newsgroups: rec.radio.amateur.homebrew
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 14
Date: Tue, 19 Jun 2007 05:42:58 GMT
NNTP-Posting-Host: 4.154.41.90
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1182231778 4.154.41.90 (Mon, 18 Jun 2007 22:42:58 PDT)
NNTP-Posting-Date: Mon, 18 Jun 2007 22:42:58 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13511

Anyone know if this is on the Web somewhere? A Google search returns a pile of Asian-language sites, one of which might have the information if only I were literate in Chinese/Japanese/Korean...

It's the logic chip in a cheap mini FM transmitter, sold for use with MP3 players. I'm trying to change the frequency selections, as none of the factory choices (88.1/88.3/88.5/88.7MHz) are usable here.

I did find a schematic for the transmitter as a whole on the FCC website but changing the logic level of a pin that *seemed* appropriate caused the unit to stop working altogether. (or shifted the frequency out of the FM BCB...)

From -6891826762864112091
X-Google-Thread: fc2a5,e9d60c5c5edb69a3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o11g2000prd.googlegroups.com!not-for-mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HY1417LP datasheet/info?
Date: Mon, 18 Jun 2007 23:22:33 -0700
Organization: http://groups.google.com
Lines: 28
Message-ID: <1182234153.012854.137290@o11g2000prd.googlegroups.com>
References: <pan.2007.06.19.05.42.57.971504@invalid.nospam>
NNTP-Posting-Host: 222.155.189.220
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

```
X-Trace: posting.google.com 1182234153 6759 127.0.0.1 (19 Jun 2007 06:22:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 19 Jun 2007 06:22:33 +0000 (UTC)
In-Reply-To: <pan.2007.06.19.05.42.57.971504@invalid.nospam>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o11g2000prd.googlegroups.com; posting-host=222.155.189.220;
   posting-account=0vCTfAwAAACvA6pNXnot7Fa7QcUC1A3e
Xref: g2news1.google.com rec.radio.amateur.homebrew:13512
```

Hi Doug,

http://electronics-diy.com/BH1417_PLL_Stereo_FM_Transmitter.php

http://www.datasheetarchive.com/datasheet.php?article=984027

Could you email me what you found on the FCC site please.

Thanks,

Mark

On Jun 19, 5:42 pm, Doug Smith W9WI <w...@invalid.nospam> wrote:

> Anyone know if this is on the Web somewhere? A Google search returns a
> pile of Asian-language sites, one of which might have the information if
> only I were literate in Chinese/Japanese/Korean...
>
> It's the logic chip in a cheap mini FM transmitter, sold for use with MP3
> players. I'm trying to change the frequency selections, as none of the
> factory choices (88.1/88.3/88.5/88.7MHz) are usable here.
>
> I did find a schematic for the transmitter as a whole on the FCC website
> but changing the logic level of a pin that *seemed* appropriate caused the
> unit to stop working altogether. (or shifted the frequency out of the FM
> BCB...)

```
From -2116023437579787936
X-Google-Thread: fc2a5,e9d60c5c5edb69a3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n2g2000hse.googlegroups.com!not-for-
mail
From:  Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HY1417LP datasheet/info?
Date: Tue, 19 Jun 2007 05:47:03 -0700
Organization: http://groups.google.com
```

```
Lines: 32
Message-ID: <1182257223.430367.264600@n2g2000hse.googlegroups.com>
References: <pan.2007.06.19.05.42.57.971504@invalid.nospam>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1182257223 6452 127.0.0.1 (19 Jun 2007 12:47:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 19 Jun 2007 12:47:03 +0000 (UTC)
In-Reply-To: <pan.2007.06.19.05.42.57.971504@invalid.nospam>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n2g2000hse.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com rec.radio.amateur.homebrew:13513
```

On Jun 19, 1:42 am, Doug Smith W9WI <w...@invalid.nospam> wrote:

> Anyone know if this is on the Web somewhere? A Google search returns a
> pile of Asian-language sites, one of which might have the information if
> only I were literate in Chinese/Japanese/Korean...
>
> It's the logic chip in a cheap mini FM transmitter, sold for use with MP3
> players. I'm trying to change the frequency selections, as none of the
> factory choices (88.1/88.3/88.5/88.7MHz) are usable here.
>
> I did find a schematic for the transmitter as a whole on the FCC website
> but changing the logic level of a pin that *seemed* appropriate caused the
> unit to stop working altogether. (or shifted the frequency out of the FM
> BCB...)

My notes, based on a ripping into a unit I got from Wal-Mart a while back, disagree with your factory choices. According to my notes, pin 18 to Vcc selects a band which has choices of
88.7/88.9/89.1/89.3/89.5/89.7/89.9.
And pin 18 to ground selects a band which has choices of
107.7/107.9/108.1/108.3/108.5/108.7/108.9. Maybe due to this disagreement you've got some customized or different variant version of the chip. I think my chip was a BH1417-something or other (Rohm?).
Is HY Hyundai or something else?

The unit I was playing with had a varicap and a small coil for tuning the VCO of the synth. I had to remove a few tunes from the coil to get it onto the 107-108Mc band as opposed to the factory 88.7-89.9Mc band.
It didn't stop oscillating when the coil was out of range, but it didn't lock either.

Tim.

From -8677683188737694238

X-Google-Thread: fc2a5,e9d60c5c5edb69a3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread2.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
From: Doug Smith W9WI <w9wi@invalid.nospam>
Subject: Re: HY1417LP datasheet/info?
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.06.19.13.57.38.101042@invalid.nospam>
Newsgroups: rec.radio.amateur.homebrew
References: <pan.2007.06.19.05.42.57.971504@invalid.nospam> <1182257223.430367.264600@n2g2000hse.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 23
Date: Tue, 19 Jun 2007 13:57:40 GMT
NNTP-Posting-Host: 4.152.96.104
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1182261460 4.152.96.104 (Tue, 19 Jun 2007 06:57:40 PDT)
NNTP-Posting-Date: Tue, 19 Jun 2007 06:57:40 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13514

On Tue, 19 Jun 2007 05:47:03 -0700, Tim Shoppa wrote:

> My notes, based on a ripping into a unit I got from Wal-Mart a while
> back, disagree with your factory choices. According to my notes, pin
> 18 to Vcc selects a band which has choices of
> 88.7/88.9/89.1/89.3/89.5/89.7/89.9.
> And pin 18 to ground selects a band which has choices of
> 107.7/107.9/108.1/108.3/108.5/108.7/108.9. Maybe due to this
> disagreement you've got some customized or different variant version
> of the chip. I think my chip was a BH1417-something or other (Rohm?).
> Is HY Hyundai or something else?

That's where I got my unit, but it would appear BH1417 and HY1417 are two different chips. I can't change the logic level on pin 18, because the HY1417 has only 16 pins<grin>!

My unit has another chip, six pins, that appears (both from physical inspection and the schematic) to be the actual PLL. Performs the function of the MPSA13 and pins 7-9 on the BH1417. HY is not Hyundai. I can't remember what it is & left the printouts (and the FCC ID# for the unit...) at work...

From 9041153833362694758
X-Google-Thread: fc2a5,e9d60c5c5edb69a3

X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
From: Doug Smith W9WI <w9wi@invalid.nospam>
Subject: Re: HY1417LP datasheet/info?
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.06.19.14.17.22.765483@invalid.nospam>
Newsgroups: rec.radio.amateur.homebrew
References: <pan.2007.06.19.05.42.57.971504@invalid.nospam>
<1182234153.012854.137290@o11g2000prd.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 20
Date: Tue, 19 Jun 2007 14:17:27 GMT
NNTP-Posting-Host: 4.152.96.104
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1182262647 4.152.96.104 (Tue, 19 Jun
2007 07:17:27 PDT)
NNTP-Posting-Date: Tue, 19 Jun 2007 07:17:27 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13515

On Mon, 18 Jun 2007 23:22:33 -0700, MarkAren wrote:
> Could you email me what you found on the FCC site please.

As I mentioned in the other reply, HY1417LP and BH1417 are two different devices - HY1417LP has only 16 pins but is used with a separate 6-pin chip which appears to be the VCO.

I of course managed to leave the battery cover (with the FCC ID#) at work last night so won't be able to look up the exact link until much later. I've not been having any luck looking up the FCC ID#s on various other pieces of electronics in the house. (type in the ID# exactly as it appears on the sticker - and the FCC says it doesn't exist...) But it worked with this device. On this URL:

https://gullfoss2.fcc.gov/oetcf/eas/reports/GenericSearch.cfm

you put in the ID code, look under Attachments, there may be one for a schematic. The manufacturers can mark it as confidential but in this case they didn't.

From 2559334381180900539
X-Google-Thread: fc2a5,6cd74e1a9c82c8d3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!news.kjsl.com!
ncf.ca!FreeNet.Carleton.CA!et472

```
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: About a narrow filter at 10.7 MHz
Date: 20 Jun 2007 02:07:05 GMT
Organization: The National Capital FreeNet
Lines: 23
Message-ID: <f5a249$qvr$1@theodyn.ncf.ca>
References: <1182085624.238984.128540@o61g2000hsh.googlegroups.com>
<f53mub$o02$1@theodyn.ncf.ca> <Ncddi.15190$2K1.2491@newsfe18.lga>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1182305225 27643 134.117.136.48 (20 Jun 2007 02:07:05 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 20 Jun 2007 02:07:05 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13516

"Uncle Peter" (radioconnection@cox.net) writes:
> "Michael Black" <et472@FreeNet.Carleton.CA> wrote in message
> news:f53mub$o02$1@theodyn.ncf.ca...
>> =?iso-8859-1?B?Rm9y52FDZWx0YQ==?= (erasmo1982@gmail.com) writes:
>>> Hello,
>  >>
>> It depends on what you need.  Don't forget that the first single signal
>> selectivity came to receivers in the thirties, via a single crystal
>> filter.
>> I'm suddenly blank about the name, but it was a balanced transformer
>> feeding a crystal on one side and a trimmer capacitor on the other.  You'd
>> trim out the crystal holder's capacitance with the trimmer.
>
> Lamb?  WAG.
>
Certainly it was described first by Lamb, or he actualy came up with
it, in that famous 1930's article about improving receivers.  Basically a
phasing crystal filter, which I suddenly was blank about when I posted.
I'm not sure I've ever seen it called a "Lamb filter", though perhaps
if you go far enough back in the books, it was once called that.

  Michael  VE2BVW




From 8449979318409107393
X-Google-Thread: fc2a5,6cd74e1a9c82c8d3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-
mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1182085624.238984.128540@o61g2000hsh.googlegroups.com>
<f53mub$o02$1@theodyn.ncf.ca> <Ncddi.15190$2K1.2491@newsfe18.lga>
<f5a249$qvr$1@theodyn.ncf.ca>
```

Subject: Re: About a narrow filter at 10.7 MHz
Lines: 37
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <kf0ei.111386$n_.57130@attbi_s21>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1182306384 12.219.135.201 (Wed, 20 Jun 2007 02:26:24 GMT)
NNTP-Posting-Date: Wed, 20 Jun 2007 02:26:24 GMT
Organization: AT&T ASP.att.net
Date: Wed, 20 Jun 2007 02:26:24 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13517

> "Uncle Peter" (radioconnection@cox.net) writes:
>> "Michael Black" <et472@FreeNet.Carleton.CA> wrote in message
>> news:f53mub$o02$1@theodyn.ncf.ca...
>>> =?iso-8859-1?B?Rm9y52FDZWx0YQ==?= (erasmo1982@gmail.com) writes:
>>>> Hello,
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> phasing crystal filter, which I suddenly was blank about when I posted.
> I'm not sure I've ever seen it called a "Lamb filter", though perhaps
> if you go far enough back in the books, it was once called that.
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Actually, it wasn't. Don't recognize the famous 1930's article you refer to, but Lamb came up with the Lamb noise blanker. The principle of operation being to turn off the IF strip while the noise pulse was present, the "hole" being less noticeable and annoying than a huge noise spike. Walter Cady came up with the single crystal filter in 1922. Incorporated in most superhets during the years 1925 until the ladder, half lattice and full lattice filters came along in the 60's.

W4ZCB
>

From 1330990395597779589
X-Google-Thread: fc2a5,6cd74e1a9c82c8d3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: About a narrow filter at 10.7 MHz
Date: 20 Jun 2007 04:57:23 GMT
Organization: The National Capital FreeNet
Lines: 56
Message-ID: <f5ac3j$2mv$1@theodyn.ncf.ca>
References: <1182085624.238984.128540@o61g2000hsh.googlegroups.com> <f53mub$o02$1@theodyn.ncf.ca> <Ncddi.15190$2K1.2491@newsfe18.lga> <f5a249$qvr$1@theodyn.ncf.ca> <kf0ei.111386$n_.57130@attbi_s21>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1182315443 2783 134.117.136.48 (20 Jun 2007 04:57:23 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 20 Jun 2007 04:57:23 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13518

"Harold E. Johnson" (W4ZCB@mchsi.com) writes:
>> "Uncle Peter" (radioconnection@cox.net) writes:
>>> "Michael Black" <et472@FreeNet.Carleton.CA> wrote in message
>>> news:f53mub$o02$1@theodyn.ncf.ca...
>>>> =?iso-8859-1?B?Rm9y52FDZWx0YQ==?= (erasmo1982@gmail.com) writes:
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>>>> filter.
>>>> I'm suddenly blank about the name, but it was a balanced transformer
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>> it, in that famous 1930's article about improving receivers. Basically a
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>> Michael VE2BVW
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> up with the single crystal filter in 1922. Incorporated in most superhets
> during the years 1925 until the ladder, half lattice and full lattice
> filters came along in the 60's.
>

The QST article is pretty famous, and at the very least is credited
with bringing single signal selectivity to amateur radio (if not the world).
I can't find a paper reference, but it might be an article titled
something like "What's Wrong with our Present Receivers" from 1932 (though
I thought the specific article had come later), and it may be
referenced in Byron Goodman's January 1957 article of the same name.

Everyone credits the article with bringing single selectivity to
amateur radio, and I can immediately find some web references that claim
(and I've read this somewhere in the paper literature) that Millen used
many of the ideas in the article for the HRO receiver. The noise blanker
may have been described in the same article.

And of course, it was lattice and half lattice filters that came along
in the fifties that allowed many to build SSB transmitters, if they
couldn't afford mechanical filters and didn't want to use phasing. I
never saw a reference to ladder filters (except for some oddball bit
in the SSB column in the fifties that had two serial crystals and one
going to ground where they joined) until the seventies, and it was more
like a decade later before they became popular in hobby circles.

Michael VE2BVW

From 2150195881054347454
X-Google-Thread: fc2a5,6cd74e1a9c82c8d3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1182085624.238984.128540@o61g2000hsh.googlegroups.com>
<f53mub$o02$1@theodyn.ncf.ca> <Ncddi.15190$2K1.2491@newsfe18.lga>
<f5a249$qvr$1@theodyn.ncf.ca> <kf0ei.111386$n_.57130@attbi_s21>
<f5ac3j$2mv$1@theodyn.ncf.ca>
Subject: Re: About a narrow filter at 10.7 MHz
Lines: 82
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <Gb7ei.173195$_c5.28053@attbi_s22>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com

X-Trace: attbi_s22 1182334822 12.219.135.201 (Wed, 20 Jun 2007 10:20:22 GMT)
NNTP-Posting-Date: Wed, 20 Jun 2007 10:20:22 GMT
Organization: AT&T ASP.att.net
Date: Wed, 20 Jun 2007 10:20:22 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13519

>>>>> It depends on what you need. Don't forget that the first single
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>>>>> selectivity came to receivers in the thirties, via a single crystal
>>>>> filter.
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W4ZCB
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> in the SSB column in the fifties that had two serial crystals and one
> going to ground where they joined) until the seventies, and it was more
> like a decade later before they became popular in hobby circles.
>
> Michael VE2BVW

Jeepers. This thread is getting as long as some of Cecils threads. I hope it isn't as dumbfounding.

James Lamb, 3CEI, 1CEI and W1CEI, was tech editor for QST in the 30's. As such, unlike todays offerings, he ALWAYS had at least one technical article in each issue starting as early as March 1928. One of those articles was in June 1932 and was titled "What's wrong with our CW receivers?" That article had to do with audio selectivity and no crystal filter was mentioned. In August 1932, he published another article, "Short Wave selectivity to match present conditions". This was amateur radios first published introduction to the single signal crystal filter

In this latter article, Lamb acknowledges the pioneering work of Cady in a footnote, who published his discovery and design of the single signal crystal filter in the Proceedings of the IRE over 10 years earlier in April 1922. Lamb only repeated Cadys work in QST. He may have brought it to the amateur fraternity, but the world knew of it from the Proc of the IRE some 10 years earlier.

Lamb WAS responsible for the invention of the "Lamb noise silencer" which bears his name some years later.

W4ZCB

```
From 1554160493778166705
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
aqua.octanews.net!news-out.octanews.net!mauve.octanews.net!news-out.readnews.com!
postnews3.readnews.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: where to buy some chassis?
From: hexter@blazenet.net (gudmundur)
Reply-To: retxeh@blazenet.net
Organization: alphabetically?
X-Newsreader: WinVN 0.99.6
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
MIME-Version: 1.0
```

Content-Type: Text/Plain; charset=US-ASCII
Date: 21 Jun 2007 00:49:54 GMT
Lines: 20
Message-ID: <4679cb31$0$8600$470ef3ce@news.pa.net>
NNTP-Posting-Host: 78e59923.news.pa.net
X-Trace:
DXC=h0=e7UYKFeQgVIiDmACf[\9B5=CnbAAlZVXV8CJ052IYJL:KgE]TUUPRg2HFAmM[2W`TlkUN54Ki^h
HWT_7YhhVY
X-Complaints-To: abuse@pa.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13520

In article <1178498215.118317.189610@e65g2000hsc.googlegroups.com>,
rjtucke@gmail.com says...
>
>I would like to build some tube transmitters and am curious where
>other people get their chassis? Article 1 (The Novice Special, from
>the arrl website) calls for LMB SQ-1 cabinet (8.5 x 4.5 x 4.5 in)
>which "comes complete with chassis and front panel".
>Article 2 (A Three-Band One-Tube Novice Transmitter, from Dec '57 QST)
>calls for a 2 x 7 x 13 in aluminum chassis enclosed in a 7 x 9 x 15 in
>aluminum box.
>Any suggestions?
>Thanks and 73,
>Ross, NS7F
>

There is a guy in Dover Pa. named Charles Byers and he custom
builds chassis any size you want. He is a ham although I forget
his callsign. I do know he lives on Harmony Grove Road however.
Look him up.

From -6506915118204382492
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 21 Jun 2007 06:16:57 -0500
Date: Thu, 21 Jun 2007 11:16:57 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: where to buy some chassis?
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
<4679cb31$0$8600$470ef3ce@news.pa.net>
In-Reply-To: <4679cb31$0$8600$470ef3ce@news.pa.net>

```
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <A8idnVWczZ60w-fbnZ2dnUVZ_jidnZ2d@bright.net>
Lines: 35
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
wL7qthYBsPTUWjZXyIR+O0SF88tlEHtnYpU6sOEsy9UWWVANBINxHQ14/9xiHJ79+nanrz6pngvWEDs!
6cHKVUaMYr0pGooQrabDdYFLLh3g3JkWzz4JxZDoteD2t4xMNHME4S66MitRJc6J8fyZ4KUORe44!
Qu0VVvkA8w==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13521

I get mine at Mouser Electronics here in the USA...

http://www.mouser.com/search/Refine.aspx?
Ne=254016+1447464&N=1323038%20254149&Ns=P_SField&RefType=Header

Scott
N0EDV

gudmundur wrote:
> In article <1178498215.118317.189610@e65g2000hsc.googlegroups.com>,
> rjtucke@gmail.com says...
>
>>I would like to build some tube transmitters and am curious where
>>other people get their chassis? Article 1 (The Novice Special, from
>>the arrl website) calls for LMB SQ-1 cabinet (8.5 x 4.5 x 4.5 in)
>>which "comes complete with chassis and front panel".
>>Article 2 (A Three-Band One-Tube Novice Transmitter, from Dec '57 QST)
>>calls for a 2 x 7 x 13 in aluminum chassis enclosed in a 7 x 9 x 15 in
>>aluminum box.
>>Any suggestions?
>>Thanks and 73,
>>Ross, NS7F
>>
>
>
>  There is a guy in Dover Pa. named Charles Byers and he custom
> builds chassis any size you want. He is a ham although I forget
> his callsign. I do know he lives on Harmony Grove Road however.
> Look him up.
>

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)
```

```
From 7322815349316508780
X-Google-Thread: fc2a5,72f7b8172fe3435f,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-mail
From:  Leopard <jarekc@konto.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: micropower cheap LNA
Date: Thu, 21 Jun 2007 04:39:44 -0700
Organization: http://groups.google.com
Lines: 13
Message-ID: <1182425984.285392.153150@q75g2000hsh.googlegroups.com>
NNTP-Posting-Host: 87.205.224.74
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-2"
X-Trace: posting.google.com 1182425984 29732 127.0.0.1 (21 Jun 2007 11:39:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Jun 2007 11:39:44 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.5; Windows 98; Win 9x 4.90),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q75g2000hsh.googlegroups.com; posting-host=87.205.224.74;
   posting-account=svR1oQ0AAAAA-uwSQxBIP6nHOCPDgLPj
Xref: g2news1.google.com rec.radio.amateur.homebrew:13522
```

Hello,

I am working on micropower 433,92MHz battery powered receiver and have a problem with LNA. I have tried a few configurations (including cascode) but I cannot lower current consumption below 400 uA. It is too much for me. I don't need high gain because this LNA is to be a buffer only but device price should be as low as possible. Have you any idea how to lower the current? I don't need exact project but some advice.

Greetings
Leopard

```
From 9111855423416218799
X-Google-Thread: fc2a5,72f7b8172fe3435f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!j4g2000prf.googlegroups.com!not-for-mail
From:  MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: micropower cheap LNA
```

```
Date: Thu, 21 Jun 2007 11:14:41 -0700
Organization: http://groups.google.com
Lines: 29
Message-ID: <1182449681.353265.166620@j4g2000prf.googlegroups.com>
References: <1182425984.285392.153150@q75g2000hsh.googlegroups.com>
NNTP-Posting-Host: 222.155.189.220
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1182449682 379 127.0.0.1 (21 Jun 2007 18:14:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Jun 2007 18:14:42 +0000 (UTC)
In-Reply-To: <1182425984.285392.153150@q75g2000hsh.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j4g2000prf.googlegroups.com; posting-host=222.155.189.220;
   posting-account=0vCTfAwAAACvA6pNXnot7Fa7QcUC1A3e
Xref: g2news1.google.com rec.radio.amateur.homebrew:13523
```

Hi Leopard,

What is your DC power budget, signal gain, NF etc ?

- Volts, DC
- Current, DC
- Gain, dB
- Noise Figure, dB

Might it be acceptable to switch on the LNA occasionally, but have it sleep for 90% of the time ?

-Mark

On Jun 21, 11:39 pm, Leopard <jar...@konto.pl> wrote:

> Hello,
>
> I am working on micropower 433,92MHz battery powered receiver and have a problem with LNA. I have tried a few configurations (including cascode) but I cannot lower current consumption below 400 uA. It is too much for me. I don't need high gain because this LNA is to be a buffer only but device price should be as low as possible. Have you any idea how to lower the current? I don't need exact project but some advice.
>
> Greetings
> Leopard

```
From -6294129909241340929
X-Google-Thread: fc2a5,72f7b8172fe3435f
```

```
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder3.cambrium.nl!feed.tweaknews.nl!
newsfeed0.kamp.net!newsfeed.kamp.net!news.osn.de!diablo2.news.osn.de!
195.208.113.67.MISMATCH!goblin1!goblin.stu.neva.ru!uio.no!newsfeed1.funet.fi!
newsfeed3.funet.fi!newsfeeds.funet.fi!feeder2.news.saunalahti.fi!
reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: micropower cheap LNA
Message-ID: <1ahl731v2jvb9m927ko7sgmjdiq1olfv0q@4ax.com>
References: <1182425984.285392.153150@q75g2000hsh.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 20
Date: Thu, 21 Jun 2007 21:39:56 +0300
NNTP-Posting-Host: 195.197.29.238
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1182451167 195.197.29.238 (Thu, 21 Jun 2007
21:39:27 EEST)
NNTP-Posting-Date: Thu, 21 Jun 2007 21:39:27 EEST
Organization: Saunalahti Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:13524

On Thu, 21 Jun 2007 04:39:44 -0700, Leopard <jarekc@konto.pl> wrote:

>
>I am working on micropower 433,92MHz battery powered receiver and have
>a problem with LNA. I have tried a few configurations (including
>cascode) but I cannot lower current consumption below 400 uA. It is
>too much for me. I don't need high gain because this LNA is to be a
>buffer only but device price should be as low as possible. Have you
>any idea how to lower the current? I don't need exact project but some
>advice.

Please note that if you are running the LNA or mixer at very low
current, the strong signal handling will be very poor from signals at
the frequency or nearby frequencies. If you are going to run the LNA
or mixer at very low currents, I would strongly suggest that you put a
very narrow filter centered at 432,920 MHz in front of the LNA,
unfortunately the filter losses will degrade your system noise figure.

Paul OH3LWR



From 7895394863329249421
X-Google-Thread: fc2a5,372f5736fd7b1f73
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!
```

headwall.stanford.edu!newsfeed.news2me.com!sn-xt-sjc-04!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Software Defined Radio DSP choice / sizing
Date: Thu, 21 Jun 2007 21:16:15 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <137mc4l668tjnc3@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <1182473053.727824.11820@k79g2000hse.googlegroups.com>
In-Reply-To: <1182473053.727824.11820@k79g2000hse.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 31
Xref: g2news1.google.com rec.radio.amateur.homebrew:13526

john@feith.com wrote:
> I'm working on a SDR design using the AD9874 to
> digitize the IF producing 280 Ksamples/sec and
> am trying to size the DSP.
<snip>

> 2) Anyone have a specific DSP they favored for
>   this type of application? Keep in mind I
>   need the DSP to be in a package I can handle
>   using home equipment. It would be nice if the
>   DSP was flexible enough so that it can be used
>   for general purpose things such as controlling
>   the keyboard and LCD instead of adding a
>   microcontroller.
>

Can your design live with fewer MIPS and a lower sample
rate (downconvert the IF)? I'm working on a design
using a old DSP sound card which will talk to my mcu in
the radio; the card has a TSM320 DSP, a great (free)
toolchain, lots of sample code, and no need to fab a
pcb. Of course its resources are an order of magnitude
less than you've specified but it will still do filtering
and demodulation.

If this approach is of any use, I'll send you the toolchain
and docs ;)

Regards,

Michael

From 4155632611186719688
X-Google-Thread: fc2a5,372f5736fd7b1f73
X-Google-Thread: f8fcc,372f5736fd7b1f73
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 22 Jun 2007 00:43:33 -0500
From: Tim Wescott <tim@seemywebsite.com>
Subject: Re: Software Defined Radio DSP choice / sizing
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
References: <1182473053.727824.11820@k79g2000hse.googlegroups.com>
User-Agent: pan 0.120 (Plate of Shrimp)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Message-ID: <FYidnQf7EvYb_ObbnZ2dnUVZ_vPinZ2d@web-ster.com>
Date: Fri, 22 Jun 2007 00:43:34 -0500
Lines: 58
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-zS9QKOVqC5yPBJ8OkQFrEPCBpRmX+Xpuu4h6wCWqKcFDYTjY6jTwDSC9Yz3YJChYdg/LLUvlYOVyTPj!yBamGqAOUUF6Kpc+FvpdTvQDkilAFSemkvzNvom8bm9DvrqGz8Rsk9u9PfZaKmGPv8yGl7Rr/sWd!wEnp0HKkyIMD1DWK
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13527 comp.dsp:48633

On Thu, 21 Jun 2007 17:44:13 -0700, john wrote:

> I'm working on a SDR design using the AD9874 to
> digitize the IF producing 280 Ksamples/sec and
> am trying to size the DSP. I'm leaning towards
> the ADSP-BF532 which is a fixed point DSP rated
> at 400 MIPS / 800 MMACS and is available in a LQFP
> package. I'd like to be able to handle everything
> from decoding standard shortwave SSB signals to
> broadcast FM stereo signals (including RDS).
>
> 1) Any pointers to information which can be used
>   to size the DSP in terms of MIPS, program RAM,
>   and data RAM? Something like a minimum of X MIPS
>   are needed to do a reasonable job handling
>   broadcast FM stereo signals (which I'm assuming
>   require more MIPS than SSB) would be useful
>   to know.
>
> 2) Anyone have a specific DSP they favored for

>   this type of application? Keep in mind I
>   need the DSP to be in a package I can handle
>   using home equipment. It would be nice if the
>   DSP was flexible enough so that it can be used
>   for general purpose things such as controlling
>   the keyboard and LCD instead of adding a
>   microcontroller.
>
> I'm not looking to use a FPGA at this time.
>

1. I generally do this by prototyping the algorithms using Scilab, or designing them on paper, then figuring out the number of operations (for MIPS) and data storage requirements. You'll probably find that the FM demodulation takes the most processor time, unless you're decoding multiple SSB channels for some odd reason.

2. I make a conscious effort to not fall in love with any particular processor. Look at a few different choices in your target word size and data type, and try to get a feel for how much time it'll take to run your algorithms.

1 & 2. _Don't_ forget the 'regular processor' stuff when you're sizing memory and processor bandwidth! Wouldn't you feel silly if you had 20 times the RAM you needed for your DSP, but didn't have the buffer space necessary for your TCP/IP stack, or if your algorithm took up 500 words of memory but you ran out of space for menu lines in ROM? Generally with these mixed-target DSP projects you can expect 1% of the code to take 95% of the consumed processing power; you need to make sure you have the code space for the other stuff.

--
Tim Wescott
Control systems and communications consulting
http://www.wescottdesign.com

Need to learn how to apply control theory in your embedded system?
"Applied Control Theory for Embedded Systems" by Tim Wescott
Elsevier/Newnes, http://www.wescottdesign.com/actfes/actfes.html

From -1328850949804322705
X-Google-Thread: fc2a5,72f7b8172fe3435f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m36g2000hse.googlegroups.com!not-for-mail
From: Leopard <jarekc@konto.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: micropower cheap LNA
Date: Fri, 22 Jun 2007 02:50:14 -0700
Organization: http://groups.google.com
Lines: 28
Message-ID: <1182505814.474943.229550@m36g2000hse.googlegroups.com>

```
References: <1182425984.285392.153150@q75g2000hsh.googlegroups.com>
   <1182449681.353265.166620@j4g2000prf.googlegroups.com>
NNTP-Posting-Host: 87.205.53.166
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1182505814 30839 127.0.0.1 (22 Jun 2007 09:50:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Jun 2007 09:50:14 +0000 (UTC)
In-Reply-To: <1182449681.353265.166620@j4g2000prf.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.5; Windows 98; Win 9x
4.90),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m36g2000hse.googlegroups.com; posting-host=87.205.53.166;
   posting-account=svR1oQ0AAAAA-uwSQxBIP6nHOCPDgLPj
Xref: g2news1.google.com rec.radio.amateur.homebrew:13528
```

Hi Mark

> What is your DC power budget, signal gain, NF etc ?

> - Volts, DC

3V

> - Current, DC

as low as possible, battery 300mAh should work minimum 1 year. Maximum average current should be less 30uA. I wonder if this is feasible at all?

> - Gain, dB

2-3dB quite enough. My receiver is superregenerrative device and it's sensivity is good but I have to add buffer to fulfill European RTTE norms.

> - Noise Figure, dB

This is a short range communication max 100m, transmitter has about 1mW power so the NF is less important than current consumption.

> Might it be acceptable to switch on the LNA occasionally, but have it
> sleep for 90% of the time ?

I thought about that. I have found such a project on EDN site. The current consuption of the whole receiver is about 200uA but it is still to much.

```
From -7343629917967780441
X-Google-Thread: fc2a5,372f5736fd7b1f73
X-Google-Thread: f8fcc,372f5736fd7b1f73
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!elnk-nf2-pas!
```

newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread1.news.pas.earthlink.net.POSTED!90335db4!not-for-mail
From: John Ferrell <johnferrell@sprintmail.com>
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: Re: Software Defined Radio DSP choice / sizing
Message-ID: <eakn73t6sq09dkvdr0ataqs89icoqp3j7u@4ax.com>
References: <1182473053.727824.11820@k79g2000hse.googlegroups.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 16
Date: Fri, 22 Jun 2007 13:51:36 GMT
NNTP-Posting-Host: 24.148.146.108
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1182520296 24.148.146.108 (Fri, 22 Jun 2007 06:51:36 PDT)
NNTP-Posting-Date: Fri, 22 Jun 2007 06:51:36 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13529 comp.dsp:48671

On Thu, 21 Jun 2007 17:44:13 -0700, john@feith.com wrote:

>I'm working on a SDR design using the AD9874 to
>digitize the IF producing 280 Ksamples/sec and

I am way behind you guys on the DSP-SDR subject but I appreciate every scrap of information you share.

I am currently trying to puzzle out the strategy used in acquiring data from a sound card.

I have successfully built the Softrock Lite 40 meter receiver and am ever so slowly working on a Softrock RXTX Ver 6.2 40 M transceiver.

John Ferrell W8CCW
"Life is easier if you learn to
plow around the stumps"

From -4732617371434941904
X-Google-Thread: fc2a5,372f5736fd7b1f73
X-Google-Thread: f8fcc,372f5736fd7b1f73
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!newssvr11.news.prodigy.net.POSTED!8c3b9efd!not-for-mail
From: Vladimir Vassilevsky <antispam_bogus@hotmail.com>
Organization: AbVolt, Ltd.
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en,ru

MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: Re: Software Defined Radio DSP choice / sizing
References: <1182473053.727824.11820@k79g2000hse.googlegroups.com>
In-Reply-To: <1182473053.727824.11820@k79g2000hse.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 72
Message-ID: <vsRei.16138$RX.4965@newssvr11.news.prodigy.net>
NNTP-Posting-Host: 70.233.144.172
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr11.news.prodigy.net 1182524315 ST000 70.233.144.172 (Fri, 22 Jun 2007 10:58:35 EDT)
NNTP-Posting-Date: Fri, 22 Jun 2007 10:58:35 EDT
X-UserInfo1:
O@YWBU[DYBSSP_@YMZJ_Q\@TJ_ZTB\MV@BL\QMIWIWTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Fri, 22 Jun 2007 14:58:35 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13530 comp.dsp:48675

john@feith.com wrote:

> I'm working on a SDR design using the AD9874 to

Fair performance is guaranteed.

  digitize the IF producing 280 Ksamples/sec and
> am trying to size the DSP.

Get the biggest one. Like Intel P4.

> I'm leaning towards
> the ADSP-BF532 which is a fixed point DSP rated
> at 400 MIPS / 800 MMACS

800 MMACS is a pure marketing. The 400 MIPS is closer to the reality.

  and is available in a LQFP
> package. I'd like to be able to handle everything
> from decoding standard shortwave SSB signals to
> broadcast FM stereo signals (including RDS).

I like your optimism.

> 1) Any pointers to information which can be used
>   to size the DSP in terms of MIPS, program RAM,
>   and data RAM? Something like a minimum of X MIPS
>   are needed to do a reasonable job handling
>   broadcast FM stereo signals (which I'm assuming
>   require more MIPS than SSB) would be useful

>   to know.

* It depends
* The barebone DSP functionality will take about 20...30 kbytes of the program memory and several kbytes of the data memory.
* For the single channel processing, the workload should not exceed about 100 MIPS.

> 2) Anyone have a specific DSP they favored for
>   this type of application?

It doesn't matter. Whatever DSP you wil take, you will be screwed many times.

> Keep in mind I
>   need the DSP to be in a package I can handle
>   using home equipment.

:))))))

> It would be nice if the
>   DSP was flexible enough so that it can be used
>   for general purpose things such as controlling
>   the keyboard and LCD instead of adding a
>   microcontroller.

The general purpose stuff can easily boost the program size over the DSP internal memories.

> I'm not looking to use a FPGA at this time.

Why don't you start learning DSP with something simple like FIR or IIR filter?

Vladimir Vassilevsky

DSP and Mixed Signal Design Consultant

http://www.abvolt.com

From 946918938093830183
X-Google-Thread: fc2a5,372f5736fd7b1f73
X-Google-Thread: f8fcc,372f5736fd7b1f73
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!sn-xt-sjc-04!sn-xt-sjc-01!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: Richard Owlett <rowlett@atlascomm.net>
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: Re: Software Defined Radio DSP choice / sizing
Date: Fri, 22 Jun 2007 13:49:55 -0500

```
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <137o6csbqhsr1ed@news.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.12) Gecko/
20050915
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <1182473053.727824.11820@k79g2000hse.googlegroups.com>
<vsRei.16138$RX.4965@newssvr11.news.prodigy.net>
In-Reply-To: <vsRei.16138$RX.4965@newssvr11.news.prodigy.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 22
Xref: g2news1.google.com rec.radio.amateur.homebrew:13531 comp.dsp:48694
```

Vladimir Vassilevsky wrote:

>
>
> Why don't you start learning DSP with something simple like FIR or IIR filter?
>
>
> Vladimir Vassilevsky
>
> DSP and Mixed Signal Design Consultant
>
> http://www.abvolt.com

Probably because he finds a "Software Defined Radio" to be fascinating. I know that's my motivation for applying fft's to speech and GPS errors. I'd lay odds that the majority of scientific/technical progress is due to amateurs. { please check your etymology before opening fire ;>

Think about bio's of ancient Greek philosophers<etymology;>, membership of Royal Society(astronomers particularly came to mind), Einstein, Goddard, Avins, Lyons, Allnor ... thru eons of grad students and even some professors with Phd's.

```
From 8063250966349040853
X-Google-Thread: fc2a5,372f5736fd7b1f73
X-Google-Thread: f8fcc,372f5736fd7b1f73
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!x35g2000prf.googlegroups.com!not-for-
mail
From:  john@feith.com
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: Re: Software Defined Radio DSP choice / sizing
Date: Fri, 22 Jun 2007 16:47:06 -0700
Organization: http://groups.google.com
Lines: 14
Message-ID: <1182556026.809653.7440@x35g2000prf.googlegroups.com>
```

```
References: <1182473053.727824.11820@k79g2000hse.googlegroups.com>
   <vsRei.16138$RX.4965@newssvr11.news.prodigy.net>
NNTP-Posting-Host: 192.251.93.16
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1182556027 5245 127.0.0.1 (22 Jun 2007 23:47:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Jun 2007 23:47:07 +0000 (UTC)
In-Reply-To: <vsRei.16138$RX.4965@newssvr11.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; SunOS i86pc; en-US; rv:1.7) Gecko/
20051027,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: x35g2000prf.googlegroups.com; posting-host=192.251.93.16;
   posting-account=pWWnBg0AAABRS67ySxV9IjQTzaIXw7NT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13532 comp.dsp:48704

On Jun 22, 10:58 am, Vladimir Vassilevsky <antispam_bo...@hotmail.com>
wrote:
> j...@feith.com wrote:
> > I'm working on a SDR design using the AD9874 to
>
> Fair performance is guaranteed.

Do you mean "fair" as in good performance or as in marginal
performance?

If you mean good performance, then I quite happy to hear it's
guaranteed. :-)




From -7471642943400120733
X-Google-Thread: fc2a5,372f5736fd7b1f73
X-Google-Thread: f8fcc,372f5736fd7b1f73
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!
newscon02.news.prodigy.net!prodigy.net!newsdst02.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr13.news.prodigy.net.POSTED!8c3b9efd!not-for-
mail
From: Vladimir Vassilevsky <antispam_bogus@hotmail.com>
Organization: AbVolt, Ltd.
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en,ru
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: Re: Software Defined Radio DSP choice / sizing
References: <1182473053.727824.11820@k79g2000hse.googlegroups.com>
<vsRei.16138$RX.4965@newssvr11.news.prodigy.net>
<1182556026.809653.7440@x35g2000prf.googlegroups.com>
```

```
In-Reply-To: <1182556026.809653.7440@x35g2000prf.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 25
Message-ID: <FJZei.683$K44.337@newssvr13.news.prodigy.net>
NNTP-Posting-Host: 70.233.144.172
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr13.news.prodigy.net 1182558181 ST000 70.233.144.172 (Fri, 22 Jun
2007 20:23:01 EDT)
NNTP-Posting-Date: Fri, 22 Jun 2007 20:23:01 EDT
X-UserInfo1:
O@YWBU[DYBSSP_@YMZJ\_Q\@TJ_ZTB\MV@BT]_MIJQR@EPIB_VUKAH_[MTX\IS[K[NGYJJFNOFZR_G[BUN
TAOQLFE^TEHRPI]PZZRP_BMDSFQFL_]CBHXRWCMDCUZAZN@D_AKMNLEI]MWHCSXL^]NNC__CZFGSGHYYXW
PFG@SCAVA]\FT\@B\RDGENSUQS^M
Date: Sat, 23 Jun 2007 00:23:01 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13533 comp.dsp:48709



john@feith.com wrote:

> On Jun 22, 10:58 am, Vladimir Vassilevsky <antispam_bo...@hotmail.com>
> wrote:
>
>>j...@feith.com wrote:
>>
>>>I'm working on a SDR design using the AD9874 to
>>
>>Fair performance is guaranteed.
>

> Do you mean "fair" as in good performance or as in marginal
> performance?

I mean this toy will work however the performance of the classic analog
receiver of the communication class is much better.

Vladimir Vassilevsky

DSP and Mixed Signal Design Consultant

http://www.abvolt.com



From 5401088742686935370
X-Google-Thread: fc2a5,372f5736fd7b1f73
X-Google-Thread: f8fcc,372f5736fd7b1f73
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q69g2000hsb.googlegroups.com!not-for-
mail
From:  john@feith.com
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
```

Subject: Re: Software Defined Radio DSP choice / sizing
Date: Fri, 22 Jun 2007 18:44:00 -0700
Organization: http://groups.google.com
Lines: 19
Message-ID: <1182563040.025549.59920@q69g2000hsb.googlegroups.com>
References: <1182473053.727824.11820@k79g2000hse.googlegroups.com>
   <vsRei.16138$RX.4965@newssvr11.news.prodigy.net>
   <1182556026.809653.7440@x35g2000prf.googlegroups.com>
   <FJZei.683$K44.337@newssvr13.news.prodigy.net>
NNTP-Posting-Host: 192.251.93.16
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1182563040 24268 127.0.0.1 (23 Jun 2007 01:44:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 23 Jun 2007 01:44:00 +0000 (UTC)
In-Reply-To: <FJZei.683$K44.337@newssvr13.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; SunOS i86pc; en-US; rv:1.7) Gecko/
20051027,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q69g2000hsb.googlegroups.com; posting-host=192.251.93.16;
   posting-account=pWWnBg0AAABRS67ySxV9IjQTzaIXw7NT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13534 comp.dsp:48712

On Jun 22, 8:23 pm, Vladimir Vassilevsky <antispam_bo...@hotmail.com>
wrote:
> I mean this toy will work

I'm willing to accept some tradeoffs for the sake
of simplifying the design (i.e. the AD9874 integrates
an ADC and digital filter which is convenient though
less flexible then a ADC coupled with a FPGA).

> however the performance of the classic analog
> receiver of the communication class is much better.

That seems to imply some type of fundamental limitation
exists with using the AD9874. Care to be more specific?
For example the AD9874 spec claim 95 dB dynamic range,
there are certainly radios which claim a higher dynamic
range. However I'm imagining that a 95 dB dynamic range
should work for a lot of signals.

From -2450452346966246005
X-Google-Thread: fc2a5,372f5736fd7b1f73
X-Google-Thread: f8fcc,372f5736fd7b1f73
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!130.59.10.21.MISMATCH!
kanaga.switch.ch!switch.ch!newsfeed3.funet.fi!newsfeeds.funet.fi!

feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: Re: Software Defined Radio DSP choice / sizing
Message-ID: <uvrp739pafvolorijf8s2d4omkbtt2tuuk@4ax.com>
References: <1182473053.727824.11820@k79g2000hse.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 39
Date: Sat, 23 Jun 2007 13:17:31 +0300
NNTP-Posting-Host: 195.197.41.107
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1182593820 195.197.41.107 (Sat, 23 Jun 2007 13:17:00 EEST)
NNTP-Posting-Date: Sat, 23 Jun 2007 13:17:00 EEST
Organization: Saunalahti Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:13535 comp.dsp:48715

On Thu, 21 Jun 2007 17:44:13 -0700, john@feith.com wrote:

>I'm working on a SDR design using the AD9874 to
>digitize the IF producing 280 Ksamples/sec and
>am trying to size the DSP. I'm leaning towards
>the ADSP-BF532 which is a fixed point DSP rated
>at 400 MIPS / 800 MMACS and is available in a LQFP
>package. I'd like to be able to handle everything
>from decoding standard shortwave SSB signals to
>broadcast FM stereo signals (including RDS).

I am not familiar with that specific component, but does it really contain a decent S&H circuit for decimation ?

Even with a proper S&H (ten nanosecond sampling and several microsecond hold times) for decimation, the 280 Ksamples/s sounds a bit low for FM broadcast detection. The higher order (Bessel function) sidebands are still quite strong with the modulation indexes used, so truncating the bandwidth to the 100-140 kHz range might not be a good idea.

If you after all want to include broadcast FM reception, I would suggest that you do the reception in analog way and only go to digital after the ratio detector, when 150 kHz sampling rate might be sufficient for stereo and RDS separation.

For the other modulation modes, I would suggest using a high 1st IF (40-80 MHz) with a proper roofing filter combined with a few IF stages and AGC. This signal might then be decimated directly (or after converting to 455 kHz for steeper filters) and processed at sampling rates well below 100 Ksamples/s.

With the roofing filter and the AGC in the first IF, the ADC should be able to handle large signal variations, as long as the offending signal is not within the roofing filter bandwidth.

Paul OH3LWR

From -2955974864434118076
X-Google-Thread: fc2a5,372f5736fd7b1f73
X-Google-Thread: f8fcc,372f5736fd7b1f73
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 23 Jun 2007 10:42:20 -0500
Date: Sat, 23 Jun 2007 11:42:18 -0400
From: Jerry Avins <jya@ieee.org>
Reply-To: jya@ieee.org
Organization: The Hectic Eclectic
User-Agent: Thunderbird 2.0.0.4 (Windows/20070604)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: Re: Software Defined Radio DSP choice / sizing
References: <1182473053.727824.11820@k79g2000hse.googlegroups.com> <uvrp739pafvolorijf8s2d4omkbtt2tuuk@4ax.com>
In-Reply-To: <uvrp739pafvolorijf8s2d4omkbtt2tuuk@4ax.com>
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Message-ID: <rJmdnQ-ZEObxouDbnZ2dnUVZ_jOdnZ2d@rcn.net>
Lines: 23
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X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13536 comp.dsp:48717

Paul Keinanen wrote:

...

> Even with a proper S&H (ten nanosecond sampling and several
> microsecond hold times) for decimation, the 280 Ksamples/s sounds a
> bit low for FM broadcast detection. The higher order (Bessel function)
> sidebands are still quite strong with the modulation indexes used, so
> truncating the bandwidth to the 100-140 kHz range might not be a good

> idea.

...

The IF passband of an FM receiver needs to be at least 200 KHz for good quality and -- counterintuitive to me -- I'm told that the capture ratio improves as the bandwidth increases. Back in the 50s, one premium receiver -- the first I knew of to use semiconductor diodes in the detector -- had a half-MHz IF.

Jerry
--
Engineering is the art of making what you want from things you can get.

```
From 5369982258456712969
X-Google-Thread: fc2a5,372f5736fd7b1f73
X-Google-Thread: f8fcc,372f5736fd7b1f73
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!c77g2000hse.googlegroups.com!not-for-
mail
From:  john@feith.com
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: Re: Software Defined Radio DSP choice / sizing
Date: Sat, 23 Jun 2007 11:56:21 -0700
Organization: http://groups.google.com
Lines: 23
Message-ID: <1182624981.920390.249710@c77g2000hse.googlegroups.com>
References: <1182473053.727824.11820@k79g2000hse.googlegroups.com>
   <uvrp739pafvolorijf8s2d4omkbtt2tuuk@4ax.com>
NNTP-Posting-Host: 71.224.204.148
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1182624982 31418 127.0.0.1 (23 Jun 2007 18:56:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 23 Jun 2007 18:56:22 +0000 (UTC)
In-Reply-To: <uvrp739pafvolorijf8s2d4omkbtt2tuuk@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: c77g2000hse.googlegroups.com; posting-host=71.224.204.148;
   posting-account=pWWnBg0AAABRS67ySxV9IjQTzaIXw7NT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13537 comp.dsp:48723
```

On Jun 23, 6:17 am, Paul Keinanen <keina...@sci.fi> wrote:

> Even with a proper S&H (ten nanosecond sampling and several microsecond hold times) for decimation, the 280 Ksamples/s sounds a bit low for FM broadcast detection.

The IF is 1.7 MHz which is sampled using a 13.6 MHz clock by the

AD9874
and decimated by a factor of 48 to produce the 280 Ksamples/s output.

Looking at:

  http://en.wikipedia.org/wiki/Fm_broadcasting

I see that FM audio goes from 0 to 53 KHz and RDS is at 57 KHz.
The AD9874 decimation filter should prevent any signal from aliasing
into the bandwidth of interest and the resulting sample rate is
above Nyquist.

I'm missing something ... assuming no aliasing problems why is
a higher sampling rate necessary for recovering the audio and RDS?

-- John

```
From 2384014781263177139
X-Google-Thread: fc2a5,372f5736fd7b1f73
X-Google-Thread: f8fcc,372f5736fd7b1f73
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!w5g2000hsg.googlegroups.com!not-for-
mail
From:  John <sampson164@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: Re: Software Defined Radio DSP choice / sizing
Date: Sat, 23 Jun 2007 19:02:53 -0000
Organization: http://groups.google.com
Lines: 34
Message-ID: <1182625373.497192.239730@w5g2000hsg.googlegroups.com>
References: <1182473053.727824.11820@k79g2000hse.googlegroups.com>
   <uvrp739pafvolorijf8s2d4omkbtt2tuuk@4ax.com>
   <rJmdnQ-ZEObxouDbnZ2dnUVZ_jOdnZ2d@rcn.net>
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Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1182625373 13549 127.0.0.1 (23 Jun 2007 19:02:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 23 Jun 2007 19:02:53 +0000 (UTC)
In-Reply-To: <rJmdnQ-ZEObxouDbnZ2dnUVZ_jOdnZ2d@rcn.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1; .NET
CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: w5g2000hsg.googlegroups.com; posting-host=208.102.209.14;
   posting-account=QH-f2A0AAAADMCeXdbcJXROZVtX_qr_0
Xref: g2news1.google.com rec.radio.amateur.homebrew:13538 comp.dsp:48725
```

On Jun 23, 11:42 am, Jerry Avins <j...@ieee.org> wrote:

```
> Paul Keinanen wrote:
>
>    ...
>
> > Even with a proper S&H (ten nanosecond sampling and several
> > microsecond hold times) for decimation, the 280 Ksamples/s sounds a
> > bit low for FM broadcast detection. The higher order (Bessel function)
> > sidebands are still quite strong with the modulation indexes used, so
> > truncating the bandwidth to the 100-140 kHz range might not be a good
> > idea.
>
>    ...
>
> The IF passband of an FM receiver needs to be at least 200 KHz for good
> quality and -- counterintuitive to me -- I'm told that the capture ratio
> improves as the bandwidth increases. Back in the 50s, one premium
> receiver -- the first I knew of to use semiconductor diodes in the
> detector -- had a half-MHz IF.
>
> Jerry
> --
> Engineering is the art of making what you want from things you can get.
> =AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=
=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=
=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF=AF

Assuming cochannel signals with small power difference, as the BW
increases the weaker
one will hit threshold (knee in the SNRout vs SNRin curve) first. Does
that explain it?

John




From 3179588387202558422
X-Google-Thread: fc2a5,372f5736fd7b1f73
X-Google-Thread: f8fcc,372f5736fd7b1f73
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
news.cs.univ-paris8.fr!talisker.lacave.net!lacave.net!news.hub.org!sn-xt-sjc-02!
sn-xt-sjc-06!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: Randy Yates <yates@ieee.org>
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: Re: Software Defined Radio DSP choice / sizing
Date: Sat, 23 Jun 2007 15:16:30 -0400
Organization: The Universal Church of Christ
Message-ID: <m38xaalbw1.fsf@ieee.org>
References: <1182473053.727824.11820@k79g2000hse.googlegroups.com>
<uvrp739pafvolorijf8s2d4omkbtt2tuuk@4ax.com>
<1182624981.920390.249710@c77g2000hse.googlegroups.com>
User-Agent: Gnus/5.1007 (Gnus v5.10.7) XEmacs/21.4.20 (linux)
```

```
Cancel-Lock: sha1:oIB2w9ySIGwfUpsI1vPa3U8T/s0=
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
X-Complaints-To: abuse@supernews.com
Lines: 36
Xref: g2news1.google.com rec.radio.amateur.homebrew:13539 comp.dsp:48727

john@feith.com writes:

> On Jun 23, 6:17 am, Paul Keinanen <keina...@sci.fi> wrote:
>> Even with a proper S&H (ten nanosecond sampling and several
>> microsecond hold times) for decimation, the 280 Ksamples/s sounds a
>> bit low for FM broadcast detection.
>
> The IF is 1.7 MHz which is sampled using a 13.6 MHz clock by the
> AD9874
> and decimated by a factor of 48 to produce the 280 Ksamples/s output.
>
> Looking at:
>
>   http://en.wikipedia.org/wiki/Fm_broadcasting
>
> I see that FM audio goes from 0 to 53 KHz and RDS is at 57 KHz.
> The AD9874 decimation filter should prevent any signal from aliasing
> into the bandwidth of interest and the resulting sample rate is
> above Nyquist.
>
> I'm missing something ... assuming no aliasing problems why is
> a higher sampling rate necessary for recovering the audio and RDS?

You're looking at the audio baseband bandwidth, i.e., the signal after
being FM demodulated. From your description the signal you're getting
has not yet been FM-demodulated. Thus you need to account for the +/-
75 kHz peak deviation of the FM signal, at a minimum. If you can
swallow up the whole 200 kHz, you gain slightly better performance due
to the admission of more the bessel function sidebands, as others have
noted.
--
%  Randy Yates                  % "Maybe one day I'll feel her cold embrace,
%% Fuquay-Varina, NC            %                    and kiss her interface,
%%% 919-577-9882                %            til then, I'll leave her alone."
%%%% <yates@ieee.org>           %        'Yours Truly, 2095', *Time*, ELO
http://home.earthlink.net/~yatescr


From 1296397498435967001
X-Google-Thread: fc2a5,6cd74e1a9c82c8d3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n60g2000hse.googlegroups.com!not-for-mail
From:  "JRCCrabtree@gmail.com" <JRCCrabtree@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
```

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Subject: Re: About a narrow filter at 10.7 MHz
Date: Sun, 24 Jun 2007 08:09:36 -0700
Organization: http://groups.google.com
Lines: 170
Message-ID: <1182697776.470648.60280@n60g2000hse.googlegroups.com>
References: <1182085624.238984.128540@o61g2000hsh.googlegroups.com>
   <f53mub$o02$1@theodyn.ncf.ca>
   <Ncddi.15190$2K1.2491@newsfe18.lga>
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NNTP-Posting-Host: 205.188.116.73
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1182697776 3036 127.0.0.1 (24 Jun 2007 15:09:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 24 Jun 2007 15:09:36 +0000 (UTC)
In-Reply-To: <Gb7ei.173195$_c5.28053@attbi_s22>
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98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-dtc-tb02.proxy.aol.com[CDBC7022] (Prism/1.2.0), HTTP/
1.1 cache-dtc-ab09.proxy.aol.com[CDBC7449] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: n60g2000hse.googlegroups.com; posting-host=205.188.116.73;
   posting-account=F-lazg0AAADsOD3g0dV7M-QgumAHgNn5
Xref: g2news1.google.com rec.radio.amateur.homebrew:13540

On Jun 20, 5:20?am, "Harold E. Johnson" <W...@mchsi.com> wrote:
> >>>>> It depends on what you need.  Don't forget that the first single
> >>>>> signal
> >>>>> selectivity came to receivers in the thirties, via a single crystal
> >>>>> filter.
> >>>>> I'm suddenly blank about the name, but it was a balanced transformer
> >>>>> feeding a crystal on one side and a trimmer capacitor on the other.
> >>>>> You'd
> >>>>> trim out the crystal holder's capacitance with the trimmer.
>
> >>>> Lamb?  WAG.
>
> >>> Certainly it was described first by Lamb, or he actualy came up with
> >>> it, in that famous 1930's article about improving receivers.  Basically
> >>> a
> >>> phasing crystal filter, which I suddenly was blank about when I posted.
> >>> I'm not sure I've ever seen it called a "Lamb filter", though perhaps
> >>> if you go far enough back in the books, it was once called that.
>
> >>>  Michael  VE2BVW
>
> >> Actually, it wasn't. Don't recognize the famous 1930's article you refer
> >> to,
> >> but Lamb came up with the Lamb noise blanker. The principle of operation
```

> >> being to turn off the IF strip while the noise pulse was present, the
> >> "hole"
> >> being less noticeable and annoying than a huge noise spike. Walter Cady
> >> came
> >> up with the single crystal filter in 1922. Incorporated in most superhets
> >> during the years 1925 until the ladder, half lattice and full lattice
> >> filters came along in the 60's.
>
> W4ZCB
>
>
>
>
>
>
>
> > The QST article is pretty famous, and at the very least is credited
> > with bringing single signal selectivity to amateur radio (if not the
> > world).
> > I can't find a paper reference, but it might be an article titled
> > something like "What's Wrong with our Present Receivers" from 1932 (though
> > I thought the specific article had come later), and it may be
> > referenced in Byron Goodman's January 1957 article of the same name.
>
> > Everyone credits the article with bringing single selectivity to
> > amateur radio, and I can immediately find some web references that claim
> > (and I've read this somewhere in the paper literature) that Millen used
> > many of the ideas in the article for the HRO receiver. The noise blanker
> > may have been described in the same article.
>
> > And of course, it was lattice and half lattice filters that came along
> > in the fifties that allowed many to build SSB transmitters, if they
> > couldn't afford mechanical filters and didn't want to use phasing. I
> > never saw a reference to ladder filters (except for some oddball bit
> > in the SSB column in the fifties that had two serial crystals and one
> > going to ground where they joined) until the seventies, and it was more
> > like a decade later before they became popular in hobby circles.
>
> > Michael VE2BVW
>
> Jeepers. This thread is getting as long as some of Cecils threads. I hope it
> isn't as dumbfounding.
>
> James Lamb, 3CEI, 1CEI and W1CEI, was tech editor for QST in the 30's. As
> such, unlike todays offerings, he ALWAYS had at least one technical article
> in each issue starting as early as March 1928. One of those articles was in
> June 1932 and was titled "What's wrong with our CW receivers?" That article
> had to do with audio selectivity and no crystal filter was mentioned. In
> August 1932, he published another article, "Short Wave selectivity to match
> present conditions". This was amateur radios first published introduction to
> the single signal crystal filter
>
> In this latter article, Lamb acknowledges the pioneering work of Cady in a

> footnote, who published his discovery and design of the single signal crystal filter in the Proceedings of the IRE over 10 years earlier in April 1922. Lamb only repeated Cadys work in QST. He may have brought it to the amateur fraternity, but the world knew of it from the Proc of the IRE some 10 years earlier.
>
> Lamb WAS responsible for the invention of the "Lamb noise silencer" which bears his name some years later.
>
> W4ZCB- Hide quoted text -
>
> - Show quoted text -- Hide quoted text -
>
> - Show quoted text -

I think that there is more to this story...

In his book 'Piezoelectricity' (originally published by McGraw-Hill in 1946; 2nd revised ed. Dover, 1964) Walter Cady indicated that he first proposed the idea of using a crystal in a filter in 1921. He referred to his Proc. IRE article, and his patent US1450246, filed Jan 28 1920, granted April 23 1923. As far as I can see, the configurations proposed by Cady do not include the center tapped transformer circuit used by Lamb.

Cady went on (2nd ed, p 668): "Filters employing crystals were first described by L. Espenchied". There is a reference to patent US1795204, inventor Lloyd Espenschied of A.T.&T., granted Mar 3, 1931, filed Jan 3, 1927. This showed the use of crystals in a ladder structure.

Other work was also taking place at the same time. Robert Kinsman, in his paper:
'A History of Crystal Filters, 1988 IEEE Frequency Control Symposium,
pp 563-570,
provides some pointers. He refers to Cady's paper and Espenchied's patent, and also a patent US2005083, inventor Clarence Hansell of RCA, granted June 18, 1935, filed July 7, 1927. This shows the single crystal filter in the center-tapped transformer configuration with the capacitor to balance out the crystal shunt capacitance.

Kinsman does not mention a further patent: US1994658, inventor Warren Marrison of Bell Labs, granted Mar 19 1935, filed June 7 1927. This too shows the a single crystal filter with a center-tapped transformer configuration.

To me, the fact that it took nearly 8 years for these patents to be granted suggests that there were some major issues to be resolved.

There were also developments in the UK as described in the ''Amateur Radio Handbook', 2nd ed., RSGB, 1940, pp 70- . I think that this chapter was probably written by Ernest Gardiner, G6GR, who did much to bring the use of crystal filters to the attention of UK amateurs in the 1930's. According to the book, Dr. James Robinson, while looking for a sharply peaked device to test his Stenode theory of reception, intoduced the quartz crystal resonator into radio circuits. The book goes on to say that Robinson publicised his work in the USA during a lecture tour in 1930, and its potential use in amateur radio was first recognised by American engineers and amateurs. The book then goes on: "The excellent work of James Lamb in developing the practical applications of the circuit is well known...". The folk lore in the UK is that Robinson introduced the center-tapped transformer circuit to Lamb.

Robinson was granted at least four US patents for his work, ie US1821032, US1821033, US1898895 and US1908558. All four patents were filed between 1929 and 1930, and all four show some form of a center-tapped transformer crystal filter circuit. US1898895 is entirely concerned with a specific embodiment. It was filed on June 9 1930, but not granted until Feb 21 1933.

Two other points are worth noting:

1 Cady's book contains many references on the use of crystal filters in receiving sets. There are five to acticles in by Lamb in QST, in Aug 1932, Nov 1933, May 1935, Apr 1937 and June 1937. There is reference to an article by Robinson on Stenode reception in Radio News in 1931, pp590ff.

2. The filters invented by Espenschied were of too low a bandwidth for voice use at a carrier frerquency of 60kHz. Warren Mason found a solution in 1929 using a full lattice filter. To quote Kinsman: "Mason expanded on this work in a landmark paper published in 1934." and "... which was the basis for all crystal filter designs generated in the next 20 years." The paper, 'Electric Wave Filters Employing Quartz Crystals as Elements', was published in the Bell System Technical Journal, Vol 13, July 1934.

73

John KC0G

From -3894708216424670335
X-Google-Thread: fc2a5,6cd74e1a9c82c8d3
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1182085624.238984.128540@o61g2000hsh.googlegroups.com>

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<f5ac3j$2mv$1@theodyn.ncf.ca>   <Gb7ei.173195$_c5.28053@attbi_s22>
<1182697776.470648.60280@n60g2000hse.googlegroups.com>
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Lines: 21
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <nvwfi.117923$n_.17419@attbi_s21>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1182700627 12.219.135.201 (Sun, 24 Jun 2007 15:57:07 GMT)
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Organization: AT&T ASP.att.net
Date: Sun, 24 Jun 2007 15:57:07 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13541

 The filters invented by Espenschied were of too low a bandwidth
> for voice use at a carrier frerquency of 60kHz.  Warren Mason found a
> solution in 1929 using a full lattice filter.  To quote Kinsman:
> "Mason expanded on this work in a landmark paper published in 1934."
> and "... which was the basis for all crystal filter designs generated
> in the next 20 years."  The paper, 'Electric Wave Filters Employing
> Quartz Crystals as Elements', was published in the Bell System
> Technical Journal, Vol 13, July 1934.
>
> 73
>
> John  KC0G

Thank you for the expansion. I have Kinsman, his work on monolithics alone
are worth the price of the book.

Regards
W4ZCB
>





From 4408978586752601 71
X-Google-Thread: fc2a5,1f795a0ae20a3c30,start
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X-Google-Thread: 111d0a,1f795a0ae20a3c30,start
X-Google-Thread: 113975,1f795a0ae20a3c30,start
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198.186.194.250.MISMATCH!transit3.readnews.com!news-out.readnews.com!panix!
rri.panix.com!robomod!not-for-mail
From: bill.meara@gmail.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.info,sci.electronics.basics,sci.astro.amateur
Subject: SolderSmoke #64
Followup-To:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.basics,sci.astro.amateur
Date: Sun, 24 Jun 2007 15:42:15 EDT
Organization: http://groups.google.com
Lines: 48
Approved: RRI Admin <rec-radio-info-request@panix.com>
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NNTP-Posting-Date: Sun, 24 Jun 2007 19:42:15 +0000 (UTC)
X-RRI-Policy: http://www.panix.com/~rram/usenet/rri/index.html
X-RRI-Info-1: Send submissions to   rec-radio-info@panix.com
X-RRI-Info-2: Send technical complaints to   rec-radio-info-request@panix.com
X-RRI-Info-3: Send complaints about policy to rec-radio-info-request@panix.com
X-Comment-1: The moderators do not necessarily agree or disagree with this article.
X-Comment-2: Moderators do not verify the accuracy of posted information.
X-Comment-3: Acceptance does not convey approval of any external references.
X-Robomod: STUMP, ichudov@algebra.com (Igor Chudov), C++/Perl/Unix Consulting
X-Moderation-1: Hassle-Free commercial hosting of moderation sites available
X-Moderation-2: See http://www.algebra.com/~ichudov/stump
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o61g2000hsh.googlegroups.com; posting-host=86.142.213.171;
   posting-account=7vRsuQwAAADlh58wGAIfEFYQRw36eW7d
Xref: g2news1.google.com rec.radio.amateur.homebrew:13542
rec.radio.amateur.boatanchors:11981 rec.radio.info:369
sci.electronics.basics:55638 sci.astro.amateur:82219

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SolderSmoke #64
June 24, 2007
Feynman uses ham radio.
Mr. Wizard: WANTED!

P/S project completed.
More Wabi Sabi.
Field Day memories.
DX listeners.
Studying Italian on Echolink.
Getting ready to go.
MAILBAG: K2CK, NN4CW, MM station...

Tired of listening to ZZ Top or NPR on your I-Pod?   Wouldn't you like to be able to carry with you the kinds of ham radio conversations that you listen to while in your radio shack? Tune in to SolderSmoke!

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http://www.soldersmoke.com/soldersmoke.rss

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http://www.soldersmoke.com

All the programs are available here.

I hope you enjoy the program. Please send us feedback.

73 from London
Bill M0HBR N2CQR CU2JL
http://www.gadgeteer.us

From -8878993493948339469
X-Google-Thread: fc2a5,3cff5d210eb1f2f6,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 24 Jun 2007 15:17:56 -0500
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Collins mechanical filters for sale
Date: Sun, 24 Jun 2007 15:19:27 -0600
X-Priority: 3
X-MSMail-Priority: Normal

X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
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Lines: 19
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lYwHhE1To66K9iBTh7GCMqpgyjl8
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13543

I've got a few of them. First of all, I've got:

450kHz CF @6kHz bandwidth   Z=20k
These units were used in the Collins 674/U, and later versions of the 651S-1 after the 2nd I.F. was switched.
75 dollars each, plus shipping........new old stock

455kHz USB/LSB pair.
I believe that this is the filter set for the Racal 6790 series
100 dollars for the pair, plus shipping

455kHz CF @ 6kHz bandwidth Z= 50 Ohms
These were special units for Collins Radio equipment. Good for that single conversion receiver project
75 dollars each, plus shipping

Pete

From -1070122170025004759
X-Google-Thread: fc2a5,372f5736fd7b1f73
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X-Google-Language: ENGLISH,ASCII-7-bit
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From: sdeyoreo@hotmail.com
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: Re: Software Defined Radio DSP choice / sizing
Message-ID: <bv8u73ltm48l40atsh3boi73p961q0td18@4ax.com>
References: <1182473053.727824.11820@k79g2000hse.googlegroups.com>

<eakn73t6sq09dkvdr0ataqs89icoqp3j7u@4ax.com>
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Date: Sun, 24 Jun 2007 21:12:24 -0500
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Xref: g2news1.google.com rec.radio.amateur.homebrew:13544 comp.dsp:48745

On Fri, 22 Jun 2007 13:51:36 GMT, John Ferrell
<johnferrell@sprintmail.com> wrote:

>On Thu, 21 Jun 2007 17:44:13 -0700, john@feith.com wrote:
>
>>I'm working on a SDR design using the AD9874 to
>>digitize the IF producing 280 Ksamples/sec and
>I am way behind you guys on the DSP-SDR subject but I appreciate every
>scrap of information you share.
>
>I am currently trying to puzzle out the strategy used in acquiring
>data from a sound card.

Using C++, it's not that hard. This page of my website,
http://sdeyoreo.tripod.com/id5.html gives the steps and code to
capture sound and fill an array with the samples from the soundcard.
Fell free to ask me more if you want.
>
>I have successfully built the Softrock Lite 40 meter receiver and am
>ever so slowly working on a Softrock RXTX Ver 6.2 40 M transceiver.
>
>John Ferrell W8CCW
>"Life is easier if you learn to
>plow around the stumps"

From 8343078302135970408
X-Google-Thread: fc2a5,372f5736fd7b1f73
X-Google-Thread: f8fcc,372f5736fd7b1f73
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: "Alex Gibson" <news@alxx.org>
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: Re: Software Defined Radio DSP choice / sizing
Date: Mon, 25 Jun 2007 14:49:38 +1000
Lines: 70
Message-ID: <5e8vqjF37t5rdU1@mid.individual.net>
References: <1182473053.727824.11820@k79g2000hse.googlegroups.com>

Reply-To: "Alex Gibson" <news at al xx org - remove spaces replace dot and at>
X-Trace: individual.net amhRXAKq4Z6vUDFGIsOWNw5S4aOqyC8roi5NUlYZ34k+KUqOUi
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Xref: g2news1.google.com rec.radio.amateur.homebrew:13545 comp.dsp:48750

<john@feith.com> wrote in message
news:1182473053.727824.11820@k79g2000hse.googlegroups.com...
> I'm working on a SDR design using the AD9874 to
> digitize the IF producing 280 Ksamples/sec and
> am trying to size the DSP. I'm leaning towards
> the ADSP-BF532 which is a fixed point DSP rated
> at 400 MIPS / 800 MMACS and is available in a LQFP
> package. I'd like to be able to handle everything
> from decoding standard shortwave SSB signals to
> broadcast FM stereo signals (including RDS).
>
> 1) Any pointers to information which can be used
>   to size the DSP in terms of MIPS, program RAM,
>   and data RAM? Something like a minimum of X MIPS
>   are needed to do a reasonable job handling
>   broadcast FM stereo signals (which I'm assuming
>   require more MIPS than SSB) would be useful
>   to know.
>
> 2) Anyone have a specific DSP they favored for
>   this type of application? Keep in mind I
>   need the DSP to be in a package I can handle
>   using home equipment. It would be nice if the
>   DSP was flexible enough so that it can be used
>   for general purpose things such as controlling
>   the keyboard and LCD instead of adding a
>   microcontroller.
>
> I'm not looking to use a FPGA at this time.
>
> -- John

Can you use one of the blackfin stamp boards ?
http://blackfin.uclinux.org/gf/project/stamp

Digikey sells the BF537 stamp board for US$226
http://www.digikey.com/scripts/DkSearch/dksus.dll?Detail?
Ref=141450&Row=440505&Site=US

http://www.analog.com/en/prod/0,2877,BF537%252DSTAMP,00.html

Could always try and make a network interface for controlling the radio.

I'm just starting to look at what I need for getting a similar set up but A.M
and ssb only for students to use in a lab to introduce them to the bascs of sdr.

The lecturers want the students to program different modules ,
different types of modulation , encoding and decoding, set different
sampling rates etc They want the students to be able use both c and matlab.

Looks like we'll be using a c6713 dsk as the base
(thanks to TI providing free software)
I just get to assemble/build/integrate what gets specified.

Someone in the faculty has a couple of lyrtech signalwave boards
which they aren't using(been sitting in their filling cabinet for a few
years), have to see if we can prise them off them.
Then see what it costs to get support (need the up to date software).
http://www.lyrtech.com/DSP-development/dsp_fpga/signalwave.php

Alex

```
From -7240868435046682482
X-Google-Thread: fc2a5,372f5736fd7b1f73
X-Google-Thread: f8fcc,372f5736fd7b1f73
X-Google-Attributes: gidfc2a5,gidf8fcc,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
news.tele.dk!news.tele.dk!small.news.tele.dk!newsfeed1.swip.net!swipnet!
newsfeed1.funet.fi!newsfeeds.funet.fi!nntp.inet.fi!inet.fi!
feeder1.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew,comp.dsp
Subject: Re: Software Defined Radio DSP choice / sizing
Message-ID: <hm6v73l9sn29gauqgn147imqm35la81le2@4ax.com>
References: <1182473053.727824.11820@k79g2000hse.googlegroups.com>
<uvrp739pafvolorijf8s2d4omkbtt2tuuk@4ax.com>
<1182624981.920390.249710@c77g2000hse.googlegroups.com>
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MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 55
Date: Mon, 25 Jun 2007 13:52:45 +0300
NNTP-Posting-Host: 195.197.41.63
X-Complaints-To: newsmaster@saunalahti.com
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X-Trace: reader1.news.saunalahti.fi 1182768732 195.197.41.63 (Mon, 25 Jun 2007 13:52:12 EEST)
NNTP-Posting-Date: Mon, 25 Jun 2007 13:52:12 EEST
Organization: Saunalahti Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:13546 comp.dsp:48762

On Sat, 23 Jun 2007 11:56:21 -0700, john@feith.com wrote:

>The IF is 1.7 MHz which is sampled using a 13.6 MHz clock by the
>AD9874
>and decimated by a factor of 48 to produce the 280 Ksamples/s output.

With 1.7 MHz IF you are going to have to construct your own LC band pass filters in front of the AD9874, if 1.7 MHz is the first IF.

If this is the second IF and you have proper filtering (ceramic or crystal) at the first IF, say 10.7 MHz, a very simple filter at 1.7 MHz should be sufficient. Due to not so spectacular performance of that chip, I would suggest using a selectable IF filter at 10,7 MHz (or whatever the first IF is), to even roughly match the required bandwidth of the transmission.

If the IF filter would be 110-280 kHz wide to allow broadcast FM reception, using such receiver in Europe to receive the 7.0-7.1 MHz amateur band when there are very high power international broadcasters starting at 7.1 MHz, might give quite disappointing results, since those strong broadcast signals would control the AGC reducing sensitivity and you still would get a lot of intermodulation products.

It also appears that the quoted dynamic range applies only to certain AGC settings.

The use of 1.7 MHz IF with a very wide input filter may be problematic at least in countries that are still using the AM broadcast band actively, with very strong signals up to 1.6 MHz. On the other hand, local 1.8 MHz amateur radio signals may be quite strong. In any superheterodyne receiver, there is always a risk for signal break-through from the environment to the IF stage at that frequency range. For this reason, common IF frequencies, such as 10.7 MHz and 455 kHz, are usually excluded from transmitter frequency assignments.

>Looking at:
>
> http://en.wikipedia.org/wiki/Fm_broadcasting
>
>I see that FM audio goes from 0 to 53 KHz and RDS is at 57 KHz.

While the modulation index for the RDS signal is quite low, thus producing only the first order Bessel sidebands at +/- 57 kHz from the carrier, the stereo difference signal S can have a quite high modulation index, thus producing the first pair of Bessel sidebands below +/-53 kHz from the carrier but also producing some significant

second order Bessel sidebands below +/-106 kHz and possibly even the
third order at +/-159 kHz.

Of course, this requires that there is a strong high pitch tone only
in one audio channel to get a huge difference signal.

Paul OH3LWR

```
From 3475760130283402591
X-Google-Thread: fc2a5,c4893bbcc3553365
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e9g2000prf.googlegroups.com!not-for-
mail
From:  bernado <werner-grosse@web.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ECHOLINK - attacks by P2P connection ?
Date: Mon, 25 Jun 2007 05:04:59 -0700
Organization: http://groups.google.com
Lines: 610
Message-ID: <1182773099.505403.278370@e9g2000prf.googlegroups.com>
References: <1180750636.231022.61960@q19g2000prn.googlegroups.com>
   <5cc7frF30104kU1@mid.dfncis.de>
   <1180939219.886238.221310@a26g2000pre.googlegroups.com>
NNTP-Posting-Host: 125.26.246.116
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1182773103 10088 127.0.0.1 (25 Jun 2007 12:05:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 25 Jun 2007 12:05:03 +0000 (UTC)
In-Reply-To: <1180939219.886238.221310@a26g2000pre.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; de; rv:1.8.1.4) Gecko/
20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e9g2000prf.googlegroups.com; posting-host=125.26.246.116;
   posting-account=BA58SA0AAADgJBK95WtfKImV2jnboHnj
Xref: g2news1.google.com rec.radio.amateur.homebrew:13547
```

Is there someone with experience as like that during ECHOLINK
operation?

NO BANANAS - NO APPLES - just ping games.......................

Never ending test pings ghosting through the Internet since 2006 what
we recorded and looged.

What's behind that tactics and abuse strategy?

With blocking of DHCP PORT 67 and 68 the ghosting and ping knocking
are over.

What's are the PRACTICAL reasons for that phenomenon and tracking control - TOT net in Thailand and ABUSE from US via DHCP and ICMP Echo Port 8?

```
--------------------------------------------------------------------------------
--------------------------------------------

24.06.2007 12:56:44    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.33      125.26.246.51
24.06.2007 13:01:26    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.38      125.26.246.51
24.06.2007 13:07:09    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.45      125.26.246.51
24.06.2007 13:12:44    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.43      125.26.246.51
24.06.2007 13:18:14    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.44      125.26.246.51
24.06.2007 13:23:40    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.46      125.26.246.51
24.06.2007 13:29:02    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.41      125.26.246.51
24.06.2007 13:53:00    DHCP Client Activity   erlaubt   Ausgehende
     UDP
255.255.255.255   67   125.26.246.51 68
24.06.2007 13:53:04    DHCP Client Activity   erlaubt   Ausgehende
     UDP
255.255.255.255   67   125.26.246.51 68
24.06.2007 13:53:13    DHCP Client Activity   erlaubt   Ausgehende
     UDP
255.255.255.255   67   125.26.246.51 68
24.06.2007 13:53:35    DHCP Client Activity   erlaubt   Ausgehende
     UDP
255.255.255.255   67        68
24.06.2007 13:53:37    DHCP Client Activity   erlaubt   Eingehende
     UDP
192.168.1.254 67   255.255.255.255   68
24.06.2007 13:53:37    DHCP Client Activity   erlaubt   Ausgehende
     UDP
255.255.255.255   67        68
24.06.2007 13:53:40    DHCP Client Activity   erlaubt   Eingehende
     UDP
192.168.1.254 67   255.255.255.255   68
24.06.2007 13:53:46    DHCP Client Activity   erlaubt   Ausgehende
     UDP
255.255.255.255   67   192.168.1.64  68
```

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24.06.2007 13:53:47	DHCP Client Activity	erlaubt	Eingehende
	UDP
192.168.1.254	67	192.168.1.64	68
24.06.2007 13:54:21	DHCP Client Activity	erlaubt	Ausgehende
	UDP
255.255.255.255	67	192.168.1.64	68
24.06.2007 13:54:21	DHCP Client Activity	erlaubt	Eingehende
	UDP
192.168.1.254	67	192.168.1.64	68
24.06.2007 13:54:23	DHCP Client Activity	erlaubt	Ausgehende
	UDP
192.168.1.254	67	192.168.1.64	68
24.06.2007 13:54:23	DHCP Client Activity	erlaubt	Eingehende
	UDP
192.168.1.254	67	192.168.1.64	68
24.06.2007 13:54:41	DHCP Client Activity	erlaubt	Ausgehende
	UDP
255.255.255.255	67	192.168.1.64	68
24.06.2007 13:54:41	DHCP Client Activity	erlaubt	Eingehende
	UDP
192.168.1.254	67	255.255.255.255	68
24.06.2007 13:54:41	DHCP Client Activity	erlaubt	Ausgehende
	UDP
255.255.255.255	67		68
24.06.2007 13:54:41	DHCP Client Activity	erlaubt	Eingehende
	UDP
10.0.0.138	67	125.26.246.51	68
24.06.2007 13:54:41	DHCP Client Activity	erlaubt	Ausgehende
	UDP
255.255.255.255	67		68
24.06.2007 13:54:41	DHCP Client Activity	erlaubt	Eingehende
	UDP
10.0.0.138	67	125.26.246.51	68
24.06.2007 13:54:46	DHCP Client Activity	erlaubt	Ausgehende
	UDP
10.0.0.138	67	125.26.246.51	68
24.06.2007 13:54:46	DHCP Client Activity	erlaubt	Eingehende
	UDP
10.0.0.138	67	125.26.246.51	68
24.06.2007 15:29:36	DHCP Client Activity	erlaubt	Ausgehende
	UDP
255.255.255.255	67	125.26.246.51	68
24.06.2007 15:29:36	DHCP Client Activity	erlaubt	Eingehende
	UDP
10.0.0.138	67	125.26.246.51	68
24.06.2007 15:35:11	ICMP Type 8 (Echo)	blockiert	Eingehende
	ICMP
67.15.240.33		125.26.246.51
24.06.2007 15:40:15	ICMP Type 8 (Echo)	blockiert	Eingehende
	ICMP
67.15.240.38		125.26.246.51
24.06.2007 15:45:00	ICMP Type 8 (Echo)	blockiert	Eingehende
	ICMP
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67.15.240.45      125.26.246.51
24.06.2007 15:49:52    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.43      125.26.246.51
24.06.2007 15:54:41    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.44      125.26.246.51
24.06.2007 15:58:50    DHCP Client Activity   erlaubt   Ausgehende
     UDP
255.255.255.255   67       68
24.06.2007 15:58:54    DHCP Client Activity   erlaubt   Ausgehende
     UDP
255.255.255.255   67       68
24.06.2007 15:58:54    DHCP Client Activity   erlaubt   Eingehende
     UDP
192.168.123.254   67   255.255.255.255
```

Abuse SPAM test pings ICMP Type 8 (Echo) 67.15.240.XX [ThePlanetAbuse-C4498619V] [EV1-C1324403V] [EV1-C935573T]
Everyones Internet - abuse@ev1servers.net
We appreciate you bringing this matter to our attention. This issue is currently being investigated. Due to privacy policies we will most likely not be able to provide you with information regarding the outcome of our investigation.
Abuse Department, The Planet, abuse@theplanet.com

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24.06.2007 15:35:11    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.33      125.26.246.51
24.06.2007 15:40:15    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.38      125.26.246.51
24.06.2007 15:45:00    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.45      125.26.246.51
24.06.2007 15:49:52    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.43      125.26.246.51

24.06.2007 11:57:58    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.45      125.26.246.51
24.06.2007 12:03:15    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.43      125.26.246.51
24.06.2007 12:08:28    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
```

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67.15.240.44       125.26.246.51
24.06.2007 12:13:34    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.46       125.26.246.51
24.06.2007 12:18:36    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.41       125.26.246.51
24.06.2007 12:23:36    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.40       125.26.246.51
24.06.2007 12:28:29    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.37       125.26.246.51
24.06.2007 12:33:13    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.36       125.26.246.51
24.06.2007 12:37:57    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.35       125.26.246.51
24.06.2007 12:56:44    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.33       125.26.246.51
24.06.2007 13:01:26    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.38       125.26.246.51
24.06.2007 13:07:09    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.45       125.26.246.51
24.06.2007 13:12:44    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.43       125.26.246.51
24.06.2007 13:18:14    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.44       125.26.246.51
24.06.2007 13:23:40    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.46       125.26.246.51
24.06.2007 13:29:02    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.41       125.26.246.51

24.06.2007 10:09:40    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.35       125.26.246.51
24.06.2007 11:57:58    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.45       125.26.246.51
24.06.2007 12:03:15    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.43       125.26.246.51
24.06.2007 12:08:28    ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.44       125.26.246.51
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24.06.2007 12:13:34     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.46       125.26.246.51
24.06.2007 12:18:36     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.41       125.26.246.51

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23.06.2007 09:26:44     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.41       125.26.246.62
23.06.2007 09:36:37     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.40       125.26.246.62
23.06.2007 09:41:27     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.40       125.26.246.62
23.06.2007 09:46:11     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.34       125.26.246.62

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22.06.2007 08:45:33     ICMP Type 8 (Echo)       blockiert
Eingehende       ICMP    67.15.240.35
125.26.246.60
22.06.2007 08:50:13     ICMP Type 8 (Echo)       blockiert
Eingehende       ICMP    67.15.240.40
125.26.246.60
22.06.2007 08:54:53     ICMP Type 8 (Echo)       blockiert
Eingehende       ICMP    67.15.240.34
125.26.246.60
22.06.2007 08:59:34     ICMP Type 8 (Echo)       blockiert
Eingehende       ICMP    67.15.240.37
125.26.246.60
22.06.2007 09:04:14     ICMP Type 8 (Echo)       blockiert
Eingehende       ICMP    67.15.240.34
125.26.246.60

22.06.2007 10:29:41     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.43       125.26.246.62
22.06.2007 10:40:39     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.46       125.26.246.62
22.06.2007 10:51:16     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.40       125.26.246.62

22.06.2007 11:30:27     ICMP Type 8 (Echo) blockiert Eingehende
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     ICMP
67.15.240.42       125.26.246.62
22.06.2007 11:44:42     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.45       125.26.246.62
22.06.2007 11:50:26     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.43       125.26.246.62
22.06.2007 11:56:06     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.44       125.26.246.62
22.06.2007 12:01:39     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.45       125.26.246.62
22.06.2007 12:07:07     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.43       125.26.246.62
22.06.2007 12:17:46     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.46       125.26.246.62
22.06.2007 12:23:00     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.41       125.26.246.62
22.06.2007 12:42:55     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.33       125.26.246.62
22.06.2007 12:47:43     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.40       125.26.246.62
22.06.2007 12:52:25     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.38       125.26.246.62
22.06.2007 12:57:08     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.33       125.26.246.62
22.06.2007 13:01:50     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.40       125.26.246.62
22.06.2007 13:06:31     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.46       125.26.246.62
22.06.2007 13:16:56     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.43       125.26.246.62
22.06.2007 13:22:34     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.44       125.26.246.62
22.06.2007 13:38:48     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.40       125.26.246.62
22.06.2007 13:54:13     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.38       125.26.246.62
```

```
22.06.2007 13:59:13     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.37       125.26.246.62
22.06.2007 14:04:07     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.44       125.26.246.62
22.06.2007 14:08:57     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.36       125.26.246.62
22.06.2007 14:13:43     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.44       125.26.246.62
22.06.2007 14:18:24     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.46       125.26.246.62
22.06.2007 14:27:46     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.41       125.26.246.62
22.06.2007 15:43:48     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.35       125.26.246.62
22.06.2007 15:48:29     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.43       125.26.246.62

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14.06.2007 07:54:35     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.41       125.26.246.62
14.06.2007 07:59:30     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.35       125.26.246.62
14.06.2007 08:04:22     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.37       125.26.246.62
14.06.2007 08:09:07     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.40       125.26.246.62
14.06.2007 08:13:47     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.34       125.26.246.62
14.06.2007 08:23:10     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.41       125.26.246.62
14.06.2007 08:27:51     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.40       125.26.246.62
14.06.2007 08:32:31     ICMP Type 8 (Echo) blockiert Eingehende
     ICMP
67.15.240.41       125.26.246.62
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13.06.2007 10:33:31       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.33                 125.26.246.52
13.06.2007 10:38:52       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.38                 125.26.246.52
13.06.2007 10:44:10       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.45                 125.26.246.52
13.06.2007 10:49:17       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.43                 125.26.246.52
13.06.2007 10:54:24       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.44                 125.26.246.52
13.06.2007 10:59:23       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.46                 125.26.246.52
13.06.2007 11:04:20       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.41                 125.26.246.52
13.06.2007 11:09:13       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.40                 125.26.246.52
13.06.2007 11:14:07       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.37                 125.26.246.52
13.06.2007 11:18:56       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.36                 125.26.246.52
13.06.2007 11:23:48       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.35                 125.26.246.52
13.06.2007 11:28:38       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.34                 125.26.246.52
13.06.2007 11:39:01       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.42                 125.26.246.52
13.06.2007 11:44:36       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.33                 125.26.246.52
13.06.2007 11:50:09       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.38                 125.26.246.52
13.06.2007 11:55:34       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.45                 125.26.246.52
13.06.2007 12:00:55       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
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67.15.240.43                125.26.246.52
13.06.2007 12:06:12       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.44                125.26.246.52
13.06.2007 12:11:24       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.46                125.26.246.52
13.06.2007 12:16:31       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.41                125.26.246.52
13.06.2007 12:21:33       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.40                125.26.246.52
13.06.2007 12:26:31       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.37                125.26.246.52
13.06.2007 12:31:21       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.36                125.26.246.52
13.06.2007 12:36:07       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.35                125.26.246.52
13.06.2007 12:40:51       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.34                125.26.246.52
13.06.2007 12:50:13       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.42                125.26.246.52
13.06.2007 12:54:56       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.33                125.26.246.52
13.06.2007 12:59:41       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.38                125.26.246.52
13.06.2007 13:10:13       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.43                125.26.246.52
13.06.2007 13:15:50       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.44                125.26.246.52
13.06.2007 13:21:23       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.46                125.26.246.52
13.06.2007 13:26:50       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.41                125.26.246.52
13.06.2007 13:32:12       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.40                125.26.246.52
13.06.2007 13:37:30       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.37                125.26.246.52
13.06.2007 13:42:45       ICMP Type 8 (Echo)
```

```
blockiert            Eingehende       ICMP
67.15.240.36                 125.26.246.52
13.06.2007 13:47:58       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.35                 125.26.246.52
13.06.2007 13:53:06       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.34                 125.26.246.52
13.06.2007 14:03:06       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.42                 125.26.246.52
13.06.2007 14:07:59       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.33                 125.26.246.52
13.06.2007 14:12:46       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.38                 125.26.246.52
13.06.2007 14:22:18       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.43                 125.26.246.52
13.06.2007 14:27:03       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.44                 125.26.246.52
13.06.2007 14:36:30       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.41                 125.26.246.52
13.06.2007 14:42:14       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.40                 125.26.246.52
13.06.2007 14:47:56       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.37                 125.26.246.52
13.06.2007 14:53:29       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.36                 125.26.246.52
13.06.2007 14:58:56       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.35                 125.26.246.52

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-------------------------------------------------------------------

11.06.2007 06:45:04       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.43                 125.26.246.56
11.06.2007 06:49:49       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.44                 125.26.246.56
11.06.2007 06:54:34       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.46                 125.26.246.56
11.06.2007 06:59:19       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
```

```
67.15.240.41                 125.26.246.56
11.06.2007 07:05:02       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.40                 125.26.246.56
11.06.2007 07:10:40       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.37                 125.26.246.56
11.06.2007 07:16:10       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.36                 125.26.246.56
11.06.2007 07:21:34       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.35                 125.26.246.56
11.06.2007 07:26:50       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.34                 125.26.246.56
11.06.2007 07:37:02       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.42                 125.26.246.56
11.06.2007 07:41:59       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.33                 125.26.246.56
11.06.2007 07:46:52       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.38                 125.26.246.56
11.06.2007 07:51:38       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.45                 125.26.246.56
11.06.2007 07:56:20       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.43                 125.26.246.56
11.06.2007 08:01:03       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.44                 125.26.246.56
11.06.2007 08:05:45       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.46                 125.26.246.56
11.06.2007 08:10:27       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.41                 125.26.246.56
11.06.2007 08:15:10       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.40                 125.26.246.56
11.06.2007 08:20:51       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.37                 125.26.246.56
11.06.2007 08:26:24       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.36                 125.26.246.56
11.06.2007 08:31:49       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.35                 125.26.246.56
11.06.2007 08:37:06       ICMP Type 8 (Echo)
```

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blockiert            Eingehende       ICMP
67.15.240.34                 125.26.246.56
11.06.2007 08:47:28       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.42                 125.26.246.56
11.06.2007 08:52:32       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.33                 125.26.246.56
11.06.2007 08:57:28       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.38                 125.26.246.56
11.06.2007 09:02:19       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.45                 125.26.246.56
11.06.2007 09:07:07       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.43                 125.26.246.56
11.06.2007 09:11:49       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.44                 125.26.246.56
11.06.2007 09:16:31       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.46                 125.26.246.56
11.06.2007 09:21:13       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.41                 125.26.246.56
11.06.2007 09:25:55       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.40                 125.26.246.56
11.06.2007 09:30:36       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.37                 125.26.246.56
11.06.2007 09:36:16       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.36                 125.26.246.56
11.06.2007 09:41:52       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.35                 125.26.246.56
11.06.2007 09:47:21       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.34                 125.26.246.56
11.06.2007 09:57:56       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.42                 125.26.246.56
11.06.2007 10:03:06       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.33                 125.26.246.56
11.06.2007 10:08:11       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.38                 125.26.246.56
11.06.2007 10:13:11       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.45                 125.26.246.56
```

```
11.06.2007 10:18:05       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.43                125.26.246.56
11.06.2007 10:22:55       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.44                125.26.246.56
11.06.2007 10:27:41       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.46                125.26.246.56
11.06.2007 10:32:21       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.41                125.26.246.56
11.06.2007 10:37:02       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.40                125.26.246.56
11.06.2007 11:38:32       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.46                125.26.246.56
11.06.2007 11:43:24       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.41                125.26.246.56
11.06.2007 11:48:13       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.40                125.26.246.56
11.06.2007 11:52:56       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.37                125.26.246.56
11.06.2007 11:57:36       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.36                125.26.246.56
11.06.2007 12:02:19       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.35                125.26.246.56
11.06.2007 12:06:59       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.34                125.26.246.56
11.06.2007 12:22:08       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.33                125.26.246.56
11.06.2007 12:27:45       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.38                125.26.246.56
11.06.2007 12:33:15       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.45                125.26.246.56
11.06.2007 12:38:41       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.43                125.26.246.56
11.06.2007 12:44:01       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
67.15.240.44                125.26.246.56
11.06.2007 12:49:19       ICMP Type 8 (Echo)
blockiert           Eingehende       ICMP
```

```
67.15.240.46                 125.26.246.56
11.06.2007 12:54:31       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.41                 125.26.246.56
11.06.2007 12:59:36       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.40                 125.26.246.56
11.06.2007 13:04:40       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.37                 125.26.246.56
11.06.2007 13:09:39       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.36                 125.26.246.56
11.06.2007 13:14:34       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.35                 125.26.246.56
11.06.2007 13:19:24       ICMP Type 8 (Echo)
blockiert            Eingehende       ICMP
67.15.240.34                 125.26.246.56

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```

```
From 1370693909617495124
X-Google-Thread: f7f9b,fa8c795ebd7311ee,start
X-Google-Thread: fc2a5,fa8c795ebd7311ee,start
X-Google-Thread: f70d1,fa8c795ebd7311ee,start
X-Google-Thread: fb1f8,fa8c795ebd7311ee,start
X-Google-Thread: 110694,fa8c795ebd7311ee,start
X-Google-Attributes: gidf7f9b,gidfc2a5,gidf70d1,gidfb1f8,gid110694,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!u2g2000hsc.googlegroups.com!not-for-
mail
From:  Mad Scientist Jr <usenet_daughter@yahoo.com>
Newsgroups:
rec.crafts.misc,rec.radio.amateur.homebrew,alt.comp.hardware.homebuilt,rec.audio.t
ech,rec.music.makers.guitar
Subject: good source to buy very small tin boxes/containers?
Date: Wed, 27 Jun 2007 07:14:03 -0700
Organization: http://groups.google.com
Lines: 13
Message-ID: <1182953643.801182.310670@u2g2000hsc.googlegroups.com>
NNTP-Posting-Host: 12.150.126.82
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1182953645 20603 127.0.0.1 (27 Jun 2007 14:14:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Jun 2007 14:14:05 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
```

```
Complaints-To: groups-abuse@google.com
Injection-Info: u2g2000hsc.googlegroups.com; posting-host=12.150.126.82;
   posting-account=hqcX8A0AAABKXTlWUU3mGm_QMZM61ECd
Xref: g2news1.google.com rec.crafts.misc:1345 rec.radio.amateur.homebrew:13548
alt.comp.hardware.homebuilt:17078 rec.audio.tech:31528
rec.music.makers.guitar:28557

Over the years I have found random tins (some square with hinges, some
round) are great to use for project boxes. Especially for very small
circuits (ie preamps) that need RF shielding.

Can anyone recommend a good vendor of small tins? Buying them at the
supermarket gets expensive, and I hate wasting mints (I already have
too many! my teeth can't take anymore!). For my current project even a
box half the size of an Altoids box would be too big (I am currently
looking for something the size of a matchbox, or round ones as big
around as a quarter and about 1/3" deep).

Any recommendations would be much appreciated!



From -2876355202368563778
X-Google-Thread: fc2a5,fa8c795ebd7311ee
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!
attbi_s21.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1182953643.801182.310670@u2g2000hsc.googlegroups.com>
Subject: Re: good source to buy very small tin boxes/containers?
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <2Wugi.3121$Fc.3067@attbi_s21>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1182956286 12.219.135.201 (Wed, 27 Jun 2007 14:58:06 GMT)
NNTP-Posting-Date: Wed, 27 Jun 2007 14:58:06 GMT
Organization: AT&T ASP.att.net
Date: Wed, 27 Jun 2007 14:58:06 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13549

> Can anyone recommend a good vendor of small tins? Buying them at the
> supermarket gets expensive, and I hate wasting mints (I already have
> too many! my teeth can't take anymore!). For my current project even a
> box half the size of an Altoids box would be too big (I am currently
> looking for something the size of a matchbox, or round ones as big
```

> around as a quarter and about 1/3" deep).
>
> Any recommendations would be much appreciated!

Go visit your local gunshop. In particular, the ones that cater to the black powder folks. The primers for a muzzle loader come in exactly your description of the "round one". After they've used the primers up, they're thrown away. Might visit a compounding pharmacy as well. A lot of medication salves come that way too, the pharmacist no doubt has empties after compounding some medication or other or perhaps even has empties that he stocks to supply customers with some of his products.

There's good reason to modularize, but this is getting close to too much modularization.

W4ZCB
>

From 8000073453824447101
X-Google-Thread: fc2a5,762749ca8c88251f,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-mail
From: fazamy <fazamy@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Unlock in cw in the TS-140
Date: Wed, 27 Jun 2007 10:57:59 -0700
Organization: http://groups.google.com
Lines: 11
Message-ID: <1182967079.277616.74200@q75g2000hsh.googlegroups.com>
NNTP-Posting-Host: 70.19.91.108
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1182967079 21258 127.0.0.1 (27 Jun 2007 17:57:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Jun 2007 17:57:59 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q75g2000hsh.googlegroups.com; posting-host=70.19.91.108;
   posting-account=an52VQ0AAABH15hcQXSLVUmWQHcgjaxD
Xref: g2news1.google.com rec.radio.amateur.homebrew:13550

I turned on the rig and was tuning around. Everything seemed to be working, and a few minutes later the audio ceased and "unlock" was sounded in cw and the display panel quit showing the frequency and showed 7 dots instead. Each time I touch the tuning knob the same thing happens. I have the Instruction Manual that says nothing about this condiition. Has anyone had to fix this sitiuation? The sole modification I have on this rig is an interface so I can have a log.

KB2AMY
Evan

```
From -3611908760466730354
X-Google-Thread: f7f9b,fa8c795ebd7311ee
X-Google-Thread: fc2a5,fa8c795ebd7311ee
X-Google-Thread: f70d1,fa8c795ebd7311ee
X-Google-Thread: fb1f8,fa8c795ebd7311ee
X-Google-Thread: 110694,fa8c795ebd7311ee
X-Google-Attributes: gidf7f9b,gidfc2a5,gidf70d1,gidfb1f8,gid110694,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.insightbb.com!
news.insightbb.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 27 Jun 2007 13:26:18 -0500
From: kony <spam@spam.com>
Newsgroups: 
rec.crafts.misc,rec.radio.amateur.homebrew,alt.comp.hardware.homebuilt,rec.audio.t
ech,rec.music.makers.guitar
Subject: Re: good source to buy very small tin boxes/containers?
Date: Wed, 27 Jun 2007 14:27:14 -0400
Reply-To: spam@spam.com
Message-ID: <gra58318bds6qe0ki05fthhsvblbo37d1k@4ax.com>
References: <1182953643.801182.310670@u2g2000hsc.googlegroups.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 28
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 74.129.176.114
X-Trace: sv3-BWH78FWUEvaEaXP77Bm7YsU4yc2sDQ1WPITTMvMoQcYyTPMnLExD/
ofntVTbVSe9SQLp+f9DDJXm7sb!
H9hmCrC0xERBiHRiE95+eMBjKFsAtY+oc3oxwihwVPCsSKD2fl2wdpyhy7cQ1bqbK0z/yJ5V5lHo!
+OVcymXhu6xpsg==
X-Complaints-To: abuse@insightbb.com
X-DMCA-Complaints-To: abuse@insightbb.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint 
properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com rec.crafts.misc:1348 rec.radio.amateur.homebrew:13551 
alt.comp.hardware.homebuilt:17082 rec.audio.tech:31532 
rec.music.makers.guitar:28558
```

On Wed, 27 Jun 2007 07:14:03 -0700, Mad Scientist Jr
<usenet_daughter@yahoo.com> wrote:

>Over the years I have found random tins (some square with hinges, some
>round) are great to use for project boxes. Especially for very small
>circuits (ie preamps) that need RF shielding.
>
>Can anyone recommend a good vendor of small tins? Buying them at the
>supermarket gets expensive, and I hate wasting mints (I already have
>too many! my teeth can't take anymore!). For my current project even a
>box half the size of an Altoids box would be too big (I am currently
>looking for something the size of a matchbox, or round ones as big
>around as a quarter and about 1/3" deep).
>
>Any recommendations would be much appreciated!

As with many small project enclosures, the market is crazy
such that you can get it as a container for a product,
cheaper than if the container IS the product.

I think you'll find buying empty tins is more expensive
unless you bought them by the pallet. Possible alternatives
in the tiny size you want include pill tins or gum tins. I
haven't seen any pill tins like this for years (but then I
hadn't been looking for them) but the candy isle at your
local stores are probably still the best bet (if not at the
checkout / cash register lanes.

```
From -1029243439455906688
X-Google-Thread: f7f9b,fa8c795ebd7311ee
X-Google-Thread: fc2a5,fa8c795ebd7311ee
X-Google-Thread: f70d1,fa8c795ebd7311ee
X-Google-Thread: fb1f8,fa8c795ebd7311ee
X-Google-Thread: 110694,fa8c795ebd7311ee
X-Google-Attributes: gidf7f9b,gidfc2a5,gidf70d1,gidfb1f8,gid110694,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out04a.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc06.POSTED!291cd109!
not-for-mail
From: Al <no.spam@wanted.com>
Newsgroups:
rec.crafts.misc,rec.radio.amateur.homebrew,alt.comp.hardware.homebuilt,rec.audio.t
ech,rec.music.makers.guitar
Subject: Re: good source to buy very small tin boxes/containers?
References: <1182953643.801182.310670@u2g2000hsc.googlegroups.com>
User-Agent: MT-NewsWatcher/3.1 (PPC)
Message-ID: <no.spam-9BC9A4.16270027062007@news.verizon.net>
Lines: 21
Date: Wed, 27 Jun 2007 20:28:36 GMT
NNTP-Posting-Host: 68.239.37.41
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc06 1182976116 68.239.37.41 (Wed, 27 Jun 2007 16:28:36 EDT)
NNTP-Posting-Date: Wed, 27 Jun 2007 16:28:36 EDT
```

```
Xref: g2news1.google.com rec.crafts.misc:1349 rec.radio.amateur.homebrew:13552
alt.comp.hardware.homebuilt:17083 rec.audio.tech:31538
rec.music.makers.guitar:28559

In article <1182953643.801182.310670@u2g2000hsc.googlegroups.com>,
 Mad Scientist Jr <usenet_daughter@yahoo.com> wrote:

> Over the years I have found random tins (some square with hinges, some
> round) are great to use for project boxes. Especially for very small
> circuits (ie preamps) that need RF shielding.
>
> Can anyone recommend a good vendor of small tins? Buying them at the
> supermarket gets expensive, and I hate wasting mints (I already have
> too many! my teeth can't take anymore!). For my current project even a
> box half the size of an Altoids box would be too big (I am currently
> looking for something the size of a matchbox, or round ones as big
> around as a quarter and about 1/3" deep).
>
> Any recommendations would be much appreciated!
>

A cheap pocket watch that doesn't work. Toss the guts, and you have a
nice case. Fools the eye, as the French say.

Al



From -1279667866837501575
X-Google-Thread: f7f9b,fa8c795ebd7311ee
X-Google-Thread: fc2a5,fa8c795ebd7311ee
X-Google-Thread: f70d1,fa8c795ebd7311ee
X-Google-Thread: fb1f8,fa8c795ebd7311ee
X-Google-Thread: 110694,fa8c795ebd7311ee
X-Google-Attributes: gidf7f9b,gidfc2a5,gidf70d1,gidfb1f8,gid110694,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: "Richard Crowley" <rcrowley@xp7rt.net>
Newsgroups:
rec.crafts.misc,rec.radio.amateur.homebrew,alt.comp.hardware.homebuilt,rec.audio.t
ech,rec.music.makers.guitar
Subject: Re: good source to buy very small tin boxes/containers?
Date: Wed, 27 Jun 2007 13:59:46 -0700
Lines: 22
Message-ID: <5eg1e4F377p8oU1@mid.individual.net>
References: <1182953643.801182.310670@u2g2000hsc.googlegroups.com>
X-Trace: individual.net vvPJ1PbT4DbCI55maK6VAgdjNkLporfbHhSwuGygOG6gd+R5iX
Cancel-Lock: sha1:D0QQ945onODTcohfqY3jJu3jlao=
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
```

```
Xref: g2news1.google.com rec.crafts.misc:1350 rec.radio.amateur.homebrew:13553
alt.comp.hardware.homebuilt:17084 rec.audio.tech:31540
rec.music.makers.guitar:28560
```

"Mad Scientist Jr" wrote ...

> Over the years I have found random tins (some square with hinges, some round) are great to use for project boxes. Especially for very small circuits (ie preamps) that need RF shielding.
>
> Can anyone recommend a good vendor of small tins? Buying them at the supermarket gets expensive, and I hate wasting mints (I already have too many! my teeth can't take anymore!). For my current project even a box half the size of an Altoids box would be too big (I am currently looking for something the size of a matchbox, or round ones as big around as a quarter and about 1/3" deep).
>
> Any recommendations would be much appreciated!

I make small (and even medium-to-large) cases of arbitrary sizes out of various widths of aluminum "U-channel" for the sides and flat pieces of aluminum (or ABS textured plastic, etc.) for the "top" and "bottom". For rather small sizes, both the channel and the flat pieces are stock items at larger R/C hobby / model stores.

```
From -5235822211466929657
X-Google-Thread: fc2a5,762749ca8c88251f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 27 Jun 2007 16:06:42 -0500
From: "CP" <someone@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1182967079.277616.74200@q75g2000hsh.googlegroups.com>
Subject: Re: Unlock in cw in the TS-140
Date: Wed, 27 Jun 2007 17:05:34 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <wr6dnfsg-tf-TB_bnZ2dnUVZ_uuqnZ2d@comcast.com>
Lines: 20
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 69.245.108.41
X-Trace: sv3-VcqFHDfWWTB/ihkXyFVAM4NSjA/
PVpOt9sK8pHEO1+uBShKaoFXF9EiVYlO50jCotqlePkhqq5CReOm!gMgbOOr6OkuR8j5E2HBj/
7rKq0wgCckEBwxnQxBch9mmHvkGwmZQOHMoPcaaAqnIQ5CojrIQh3lA!
fbpZWRrawTO+ojVu6VTelnef0TPhgg==
```

X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com rec.radio.amateur.homebrew:13554

Sounds like the exact symptoms my TS-940 had and it turned out to be the
well known PLL unlock problem.
There are many pages of info via google search, might be same for the
TS-140, might not

"fazamy" <fazamy@aol.com> wrote in message
news:1182967079.277616.74200@q75g2000hsh.googlegroups.com...
> I turned on the rig and was tuning around. Everything seemed to be
> working, and a few minutes later the audio ceased and "unlock" was
> sounded in cw and the display panel quit showing the frequency and
> showed 7 dots instead. Each time I touch the tuning knob the same
> thing happens. I have the Instruction Manual that says nothing about
> this condiition. Has anyone had to fix this sitiuation? The sole
> modification I have on this rig is an interface so I can have a log.
>
> KB2AMY
> Evan
>

From 7184028729606470542
X-Google-Thread: fc2a5,51838e0d1ff635a7,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!newshub.sdsu.edu!tethys.csu.net!nntp.csufresno.edu!sn-xt-sjc-02!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ? on feedthrough caps
Date: Wed, 27 Jun 2007 17:26:32 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1385p0u1379t62f@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-Complaints-To: abuse@supernews.com
Lines: 11
Xref: g2news1.google.com rec.radio.amateur.homebrew:13555

Can someone tell me what a feedthrough capacitor actually does? One source says it passes DC or low frequency signal through a panel, and another says it passes any signal through said panel. Are they nothing more than a feed-through device with a small amount of capacitive reactance? My Encyclopedia of Electronics leaves me hanging on this one...

Thanks for any help,

Dave

From -5172938285631924 67
X-Google-Thread: fc2a5,5fbf2a93ed503a43,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out03a.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr23.news.prodigy.net.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Mozilla/5.0 (Windows; U; WinNT4.0; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Scanner that would be a good spectrum analyzer?
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 24
Message-ID: <2FBgi.22698$C96.8583@newssvr23.news.prodigy.net>
NNTP-Posting-Host: 75.26.171.129
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr23.news.prodigy.net 1182983870 ST000 75.26.171.129 (Wed, 27 Jun 2007 18:37:50 EDT)
NNTP-Posting-Date: Wed, 27 Jun 2007 18:37:50 EDT
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
[[PAPDCAOPTMRT@[IZOBORTDEB\@PD\MNPWZKB]MPXHTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Wed, 27 Jun 2007 15:39:20 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:13556

Hello Folks,

Sorry but I am not familiar anymore with what's out there today and searches at the major manufacturers left me a bit confused. Sure, receivers like the R8500 have a computer interface but there is no info how fast it is etc.

So, is there a scanner that can be used as a simple spectrum analyzer?

Mostly to find EMI sources, no need for a tracking generator.

It should be free of relays for the band filters. I've used a JRC receiver for conducted EMI and the relays are now pretty worn. So is the encoder shaft bearing because it can't be PC controlled. Not good. It should be reasonably fast so you can thoroughly scan across a few hundred MHz in tens of seconds, not minutes. Ideally USB, no idea why many current radios still use RS232. And yes, it can be a "receiver on a card" if it has to be. The only one I found is Winradio but the web site only says "register your interest", no pricing. That makes it appear as if there may not be an actual product but I am not sure.

--
Regards, Joerg

http://www.analogconsultants.com

```
From -2675840844997010590
X-Google-Thread: fc2a5,51838e0d1ff635a7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!c77g2000hse.googlegroups.com!not-for-
mail
From:  K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on feedthrough caps
Date: Wed, 27 Jun 2007 17:00:13 -0700
Organization: http://groups.google.com
Lines: 40
Message-ID: <1182988813.004940.145470@c77g2000hse.googlegroups.com>
References: <1385p0u1379t62f@corp.supernews.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1182988813 27613 127.0.0.1 (28 Jun 2007 00:00:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 28 Jun 2007 00:00:13 +0000 (UTC)
In-Reply-To: <1385p0u1379t62f@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.4)
Gecko/20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: c77g2000hse.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news1.google.com rec.radio.amateur.homebrew:13557
```

On Jun 27, 3:26 pm, "Dave" <db5...@hotmail.com> wrote:

> Can someone tell me what a feedthrough capacitor actually does? One source says it passes DC or low frequency signal through a panel, and another says it passes any signal through said panel. Are they nothing more than a feed-through device with a small amount of capacitive reactance? My Encyclopedia of Electronics leaves me hanging on this one...

```
>
> Thanks for any help,
>
> Dave

A good feedthrough capacitor is arranged so that the capacitor part
has very low parasitic inductance and resistance between the center
fed-through conductor and the case.  The case may be intended to be
soldered to a shield can, or may have threads so it can be mounted
using a nut (or perhaps into a tapped hole in the shield can).  They
are used to get relatively low frequency signals into and out of
shielded areas, most commonly.  You can get them in various
capacitance values.  1000pF is common, for example.  Overall circuit
design will determine what frequency range can be passed.  For
example, 1000pF driven by a 1 ohm source impedance will have a -3dB
corner frequency of about 160MHz, but driven from a source impedance
of 1000 ohms, it will be a 160kHz corner frequency.  It's pretty
common to use them in conjunction with a series inductance or ferrite
bead on one or both sides, very close to the feedthrough, so that RF
isn't picked up by the lead and fed through because the impedance is
too low--the inductance or bead guarantees a reasonably high impedance
at RF frequencies.  You can also get feedthroughs that have not only
shunt capacitance, but also series inductance or built-in ferrite.
(Note that the ferrite provides some inductance at moderate
frequencies, but at higher frequencies--up to a point--the series
impedance becomes mainly resistive.  That helps damp resonances.  See
curves of impedance versus frequency for parts found on the TDK
website, for example.)

Hope that helps...

Cheers,
Tom




From 8759228720878467426
X-Google-Thread: fc2a5,c4893bbcc3553365
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!x35g2000prf.googlegroups.com!not-for-
mail
From:  bernado <werner-grosse@web.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ECHOLINK - attacks by P2P connection ?
Date: Wed, 27 Jun 2007 19:52:56 -0700
Organization: http://groups.google.com
Lines: 32
Message-ID: <1182999176.442203.130290@x35g2000prf.googlegroups.com>
References: <1180750636.231022.61960@q19g2000prn.googlegroups.com>
   <5cc7frF30104kU1@mid.dfncis.de>
   <1180939219.886238.221310@a26g2000pre.googlegroups.com>
   <1182773099.505403.278370@e9g2000prf.googlegroups.com>
```

```
NNTP-Posting-Host: 125.26.246.54
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1182999177 25080 127.0.0.1 (28 Jun 2007 02:52:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 28 Jun 2007 02:52:57 +0000 (UTC)
In-Reply-To: <1182773099.505403.278370@e9g2000prf.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; de; rv:1.8.1.4) Gecko/
20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: x35g2000prf.googlegroups.com; posting-host=125.26.246.54;
   posting-account=BA58SA0AAADgJBK95WtfKImV2jnboHnj
Xref: g2news1.google.com rec.radio.amateur.homebrew:13558
```

With several complains and JUST after receiving of the last ticket C4498619 from Everyones Internet and ThePlanet Abuse ALL PIRATE TEST PING ACTIONS of the 67.15.240. XX IP group disappears.

Some significant links with the same experience and ICMP Type 8 (Echo) logs.

http://www.tik.be/forum/viewtopic.php?p=72598&sid=98530fb55bfe8ec3fd73b454d1ec02a6
http://www.fyhand.com/bbs/viewthread.php?tid=143&extra=page%3D1
http://outpostfirewall.com/forum/showthread.php?p=152300#post152300

The last PIRATE FREE logs - with acceptance of port 66/67 activities.

```
27.06.2007 16:55:59     Windows "Server Message Block" Activity
     blockiert
Eingehende    TCP  125.26.124.201     4465 125.26.246.62 445
27.06.2007 17:02:03     Windows "DCOM RPC" Acitivity     blockiert
     Eingehende
TCP  221.5.41.36   6000 125.26.246.62 135
27.06.2007 17:13:04     DHCP Client Activity   erlaubt   Ausgehende
     UDP
255.255.255.255    67       68
27.06.2007 17:13:04     DHCP Client Activity   erlaubt   Eingehende
     UDP
10.0.0.138    67   125.26.246.62 68
27.06.2007 18:26:32     Windows "DCOM RPC" Acitivity     blockiert
     Eingehende
TCP  60.170.0.4    6000 125.26.246.62 135
27.06.2007 18:49:29     Windows "NetBIOS Name Service" Activity
     blockiert
Eingehende    UDP  201.69.106.214     1027 125.26.246.62 137
27.06.2007 19:33:26     Windows "DCOM RPC" Acitivity     blockiert
     Eingehende
TCP  222.178.117.17     6000 125.26.246.62 135
27.06.2007 20:13:34     Windows "DCOM RPC" Acitivity     blockiert
     Eingehende
TCP  59.36.100.187 6000 125.26.246.62 135
```

From -285787708410015868
X-Google-Thread: fc2a5,51838e0d1ff635a7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-03!sn-xt-sjc-09!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on feedthrough caps
Date: Wed, 27 Jun 2007 22:11:43 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13869nm3gsm09bd@corp.supernews.com>
References: <1385p0u1379t62f@corp.supernews.com>
<1182988813.004940.145470@c77g2000hse.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-Complaints-To: abuse@supernews.com
Lines: 54
Xref: g2news1.google.com rec.radio.amateur.homebrew:13559

"K7ITM" <k7itm@msn.com> wrote in message
news:1182988813.004940.145470@c77g2000hse.googlegroups.com...
> On Jun 27, 3:26 pm, "Dave" <db5...@hotmail.com> wrote:
>> Can someone tell me what a feedthrough capacitor actually does? One
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>> says it passes DC or low frequency signal through a panel, and another
>> says
>> it passes any signal through said panel. Are they nothing more than a
>> feed-through device with a small amount of capacitive reactance? My
>> Encyclopedia of Electronics leaves me hanging on this one...
>>
>> Thanks for any help,
>>
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>
> A good feedthrough capacitor is arranged so that the capacitor part
> has very low parasitic inductance and resistance between the center
> fed-through conductor and the case. The case may be intended to be
> soldered to a shield can, or may have threads so it can be mounted
> using a nut (or perhaps into a tapped hole in the shield can). They
> are used to get relatively low frequency signals into and out of
> shielded areas, most commonly. You can get them in various
> capacitance values. 1000pF is common, for example. Overall circuit
> design will determine what frequency range can be passed. For

> example, 1000pF driven by a 1 ohm source impedance will have a -3dB
> corner frequency of about 160MHz, but driven from a source impedance
> of 1000 ohms, it will be a 160kHz corner frequency. It's pretty
> common to use them in conjunction with a series inductance or ferrite
> bead on one or both sides, very close to the feedthrough, so that RF
> isn't picked up by the lead and fed through because the impedance is
> too low--the inductance or bead guarantees a reasonably high impedance
> at RF frequencies. You can also get feedthroughs that have not only
> shunt capacitance, but also series inductance or built-in ferrite.
> (Note that the ferrite provides some inductance at moderate
> frequencies, but at higher frequencies--up to a point--the series
> impedance becomes mainly resistive. That helps damp resonances. See
> curves of impedance versus frequency for parts found on the TDK
> website, for example.)
>
> Hope that helps...
>
> Cheers,
> Tom
>

Wow. Thank you Tom. Lots more than I found with Google... It is much
appreciated.

Best regards...

Dave

From 3239884701810971298
X-Google-Thread: fc2a5,fd725f1e373306dd,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-03!sn-xt-sjc-07!sn-post-sjc-02!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Novel source for copper antenna wire
Date: Wed, 27 Jun 2007 22:27:12 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1386afdnmde38f8@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 18
Xref: g2news1.google.com rec.radio.amateur.homebrew:13560

Greetings:

Today, while perusing the wares at a local marine outfitting store, I came upon 300 foot reels of 20ga. 7-strand copper wire intended for use as "fishing cable". The price is roughly 6.7 cents/foot and the sample I was given appeared to be no different from wire sold for electrical purposes except for the very tight twist and strong tensile strength. To me it looks like great antenna wire at a good price in view of the copper bubble. I don't have a milliohmmeter so I cannot conduct conductivity tests other than to say that a few inches of it zeros a DMM.

Has anyone used this material?

Regards,

Michael

```
From -4831493989434322550
X-Google-Thread: f7f9b,fa8c795ebd7311ee
X-Google-Thread: fc2a5,fa8c795ebd7311ee
X-Google-Thread: f70d1,fa8c795ebd7311ee
X-Google-Thread: fb1f8,fa8c795ebd7311ee
X-Google-Thread: 110694,fa8c795ebd7311ee
X-Google-Attributes: gidf7f9b,gidfc2a5,gidf70d1,gidfb1f8,gid110694,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
Message-ID: <4683485A.3000009@hawaii.rr.com>
Date: Wed, 27 Jun 2007 19:34:18 -1000
From: Richard <northshore-beachbum@hawaii.rr.com>
User-Agent: Thunderbird 1.5.0.12 (X11/20070604)
MIME-Version: 1.0
Newsgroups:
rec.crafts.misc,rec.radio.amateur.homebrew,alt.comp.hardware.homebuilt,rec.audio.t
ech,rec.music.makers.guitar
To: Mad Scientist Jr <usenet_daughter@yahoo.com>
Subject: Re: good source to buy very small tin boxes/containers?
References: <1182953643.801182.310670@u2g2000hsc.googlegroups.com>
In-Reply-To: <1182953643.801182.310670@u2g2000hsc.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 20
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.crafts.misc:1351 rec.radio.amateur.homebrew:13561
alt.comp.hardware.homebuilt:17085 rec.audio.tech:31561
rec.music.makers.guitar:28562
```

Mad Scientist Jr wrote:

> Over the years I have found random tins (some square with hinges, some
> round) are great to use for project boxes. Especially for very small
> circuits (ie preamps) that need RF shielding.
>
> Can anyone recommend a good vendor of small tins? Buying them at the
> supermarket gets expensive, and I hate wasting mints (I already have
> too many! my teeth can't take anymore!). For my current project even a
> box half the size of an Altoids box would be too big (I am currently
> looking for something the size of a matchbox, or round ones as big
> around as a quarter and about 1/3" deep).
>
> Any recommendations would be much appreciated!
>

Check the "containers" section...

http://www.sciplus.com/index.cfm

```
From 3492398503266376793
X-Google-Thread: f7f9b,fa8c795ebd7311ee
X-Google-Thread: fc2a5,fa8c795ebd7311ee
X-Google-Thread: f70d1,fa8c795ebd7311ee
X-Google-Thread: fb1f8,fa8c795ebd7311ee
X-Google-Thread: 110694,fa8c795ebd7311ee
X-Google-Attributes: gidf7f9b,gidfc2a5,gidf70d1,gidfb1f8,gid110694,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!a26g2000pre.googlegroups.com!not-for-
mail
From:  MadEngineer <glenn.b.dixon@gmail.com>
Newsgroups: 
rec.crafts.misc,rec.radio.amateur.homebrew,alt.comp.hardware.homebuilt,rec.audio.t
ech,rec.music.makers.guitar
Subject: Re: good source to buy very small tin boxes/containers?
Date: Thu, 28 Jun 2007 13:01:27 -0000
Organization: http://groups.google.com
Lines: 20
Message-ID: <1183035687.011935.323170@a26g2000pre.googlegroups.com>
References: <1182953643.801182.310670@u2g2000hsc.googlegroups.com>
NNTP-Posting-Host: 67.177.9.30
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1183035687 21540 127.0.0.1 (28 Jun 2007 13:01:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 28 Jun 2007 13:01:27 +0000 (UTC)
In-Reply-To: <1182953643.801182.310670@u2g2000hsc.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.4)
Gecko/20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
```

```
Injection-Info: a26g2000pre.googlegroups.com; posting-host=67.177.9.30;
   posting-account=EvBMNw0AAABX-Et6w0086s4DXqrY-API
Xref: g2news1.google.com rec.crafts.misc:1352 rec.radio.amateur.homebrew:13562
alt.comp.hardware.homebuilt:17086 rec.audio.tech:31606
rec.music.makers.guitar:28563

On Jun 27, 8:14 am, Mad Scientist Jr <usenet_daugh...@yahoo.com>
wrote:
> Over the years I have found random tins (some square with hinges, some
> round) are great to use for project boxes. Especially for very small
> circuits (ie preamps) that need RF shielding.
>
> Can anyone recommend a good vendor of small tins? Buying them at the
> supermarket gets expensive, and I hate wasting mints (I already have
> too many! my teeth can't take anymore!). For my current project even a
> box half the size of an Altoids box would be too big (I am currently
> looking for something the size of a matchbox, or round ones as big
> around as a quarter and about 1/3" deep).
>
> Any recommendations would be much appreciated!

http://www.specialtybottle.com/index.asp

73,
AC7ZN Glenn




From 4879939522430288021
X-Google-Thread: fc2a5,fd725f1e373306dd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr17.news.prodigy.net.POSTED!78df62d6!not-for-
mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Mozilla/5.0 (Windows; U; WinNT4.0; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Novel source for copper antenna wire
References: <1386afdnmde38f8@corp.supernews.com>
In-Reply-To: <1386afdnmde38f8@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 27
Message-ID: <aSWgi.4737$vi5.3836@newssvr17.news.prodigy.net>
NNTP-Posting-Host: 75.26.176.222
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr17.news.prodigy.net 1183070726 ST000 75.26.176.222 (Thu, 28 Jun
2007 18:45:26 EDT)
NNTP-Posting-Date: Thu, 28 Jun 2007 18:45:26 EDT
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Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
SCSYQNON_ZUYB_TY]ZKTOFTBTR\B@GXLN@GZ_GYO^RR@ETUCCNSKQFCY@TXDX_WHSVB]ZEJLSNY\^J[CUV
SA_QLFC^RQHUPH[P[NRWCCMLSNPOD_ESALHUK@TDFUZHBLJ\XGKL^NXA\EVHSP[D_C^B_^JCX^W]CHBAX]
POG@SSAZQ\LE[DCNMUPG_VSC@VJM
Date: Thu, 28 Jun 2007 15:46:58 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:13563

msg wrote:

> Greetings:
>
> Today, while perusing the wares at a local marine outfitting
> store, I came upon 300 foot reels of 20ga. 7-strand copper
> wire intended for use as "fishing cable". The price is
> roughly 6.7 cents/foot and the sample I was given appeared
> to be no different from wire sold for electrical purposes
> except for the very tight twist and strong tensile strength.
> To me it looks like great antenna wire at a good price
> in view of the copper bubble. I don't have a milliohmmeter
> so I cannot conduct conductivity tests other than to say
> that a few inches of it zeros a DMM.
>
> Has anyone used this material?
>

No. But if it's for shortwave, in my early days I have used all kinds of
wire. Including some kind of clothesline with a galvanized core and it
all worked fine. The only thing that got hot and occasionally exploded
were the baluns.

--
Regards, Joerg

http://www.analogconsultants.com

From -7990177339016155198
X-Google-Thread: fc2a5,2737f4c19e7531ee,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o61g2000hsh.googlegroups.com!not-for-mail
From: www.8trackaudio.com@8trackaudio.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Pioneer SX-2000 AM/FM tube receiver-MINT-best offer-needs nothing !
Date: Thu, 28 Jun 2007 16:47:41 -0700
Organization: http://groups.google.com
Lines: 22
Message-ID: <1183074461.673318.89220@o61g2000hsh.googlegroups.com>
NNTP-Posting-Host: 209.74.29.60
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"

X-Trace: posting.google.com 1183074461 17545 127.0.0.1 (28 Jun 2007 23:47:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 28 Jun 2007 23:47:41 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.5; Windows 98; Win 9x 4.90),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o61g2000hsh.googlegroups.com; posting-host=209.74.29.60;
   posting-account=MCPEjw0AAABr794qv58nm82jseMgox44
Xref: g2news1.google.com rec.radio.amateur.homebrew:13564

http://cls.audiogon.com/cgi-bin/cls.pl?ampstube&1188253288

RARE PIONEER SX-2000 AM/FM TUBE RECEIVER- CLASSIC PUSH-PULL TUBE RECEIVER/AMP, USING 3 HUGE POWER SUPPLY/AUDIO OUTPUT TRANSFORMERS, AND 4 OUTPUT TUBES- ALL FRONT PANEL CONTROLS AND LIGHTS WORK- ALWAYS KEPT INDOORS IN HEATED AREA, CARED FOR- ACCEPTS PHONO-AUX-TAPE HEAD-TAPE-STEREO AMP- EVERYTHING WORKS- EXCELLENT CONDITION- THIS ONE IS QUITE RARE, ORIGINALLY AN "ARMY PX ONLY" MODEL, NEVER SOLD IN USA BY RETAIL OUTLETS- THE ONLY ONES IN CIRCULATION ARE THOSE BROUGHT HOME BY RETURNING G.I.'S FROM GERMANY, JAPAN, KOREA, ETC.- READY TO PLUG AND PLAY- SOUNDS GREAT- HI/LOW FILTERS, LOUDNESS, MUTING, SPEAKER ON/OFF, SEPARATE RIGHT/LEFT BASS/TREBLE CONTROLS, ROTARY POWER SWITCH- SLEEK LOOKING AND POWERFUL- $1,000 OBO- NO REASONABLE OFFERS REFUSED- FREE SHIPPING ANYWHERE IN THE WORLD !! THE PICTURES ARE WORTH A THOUSAND WORDS- THIS UNIT NEEDS NOTHING- READY TO ROCK AND ROLL ! EMAIL WITH ANY OTHER QUESTIONS- THANKS FOR LOOKING- DON'T MESS AROUND BECAUSE THIS WON'T LAST LONG- IN THE PAST 6 YEARS I HAVE ONLY SEEN "ONE" OF THESE FOR SALE ON EBAY ! ACT NOW ! THIS IS A BLUE-CHIP INVESTMENT, AS IT WAS PIONEER'S LAST AND BEST TUBE RECEIVER MADE, BEFORE THEY WENT TO SOLID STATE ACROSS THE BOARD- TRY TO EVEN FIND ONE TODAY IN THIS CONDITION !

From -8887033278961716253
X-Google-Thread: fc2a5,51838e0d1ff635a7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out02b.usenetserver.com!news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!in03.usenetserver.com!news.usenetserver.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!newssvr22.news.prodigy.net.POSTED!78df62d6!not-for-mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Mozilla/5.0 (Windows; U; WinNT4.0; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on feedthrough caps
References: <1385p0u1379t62f@corp.supernews.com>
<1182988813.004940.145470@c77g2000hse.googlegroups.com>

```
<13869nm3gsm09bd@corp.supernews.com>
In-Reply-To: <13869nm3gsm09bd@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 63
Message-ID: <ANYgi.9266$c06.5398@newssvr22.news.prodigy.net>
NNTP-Posting-Host: 75.26.176.222
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr22.news.prodigy.net 1183078624 ST000 75.26.176.222 (Thu, 28 Jun
2007 20:57:04 EDT)
NNTP-Posting-Date: Thu, 28 Jun 2007 20:57:04 EDT
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
Q[R_PJSCTS@GRQ\Y\ZJB^WTAUKXD@D@MGPW^OBPLAH[\BQUBLNTC@AWZWDXZXQ[K\FFSKCVM@F_N_DOBWV
WG__LG@VVOIPLIGX\
\BU_B@\P\PFX\B[APHTWAHDCKJF^NHD[YJAZMCY_CWG[SX\Y]^KC\HSZRWSWKGAY_PC[BQ[BXAS\F\
\@DMTLFZFUE@\VL
Date: Thu, 28 Jun 2007 17:58:35 -0700
Xref: g2news1.google.com rec.radio.amateur.homebrew:13565

Dave wrote:

> "K7ITM" <k7itm@msn.com> wrote in message
> news:1182988813.004940.145470@c77g2000hse.googlegroups.com...
>
>>On Jun 27, 3:26 pm, "Dave" <db5...@hotmail.com> wrote:
>>
>>>Can someone tell me what a feedthrough capacitor actually does?  One
>>>source
>>>says it passes DC or low frequency signal through a panel, and another
>>>says
>>>it passes any signal through said panel.  Are they nothing more than a
>>>feed-through device with a small amount of capacitive reactance?  My
>>>Encyclopedia of Electronics leaves me hanging on this one...
>>>
>>>Thanks for any help,
>>>
>>>Dave
>>
>>A good feedthrough capacitor is arranged so that the capacitor part
>>has very low parasitic inductance and resistance between the center
>>fed-through conductor and the case.  The case may be intended to be
>>soldered to a shield can, or may have threads so it can be mounted
>>using a nut (or perhaps into a tapped hole in the shield can).  They
>>are used to get relatively low frequency signals into and out of
>>shielded areas, most commonly.  You can get them in various
>>capacitance values.  1000pF is common, for example.  Overall circuit
>>design will determine what frequency range can be passed.  For
>>example, 1000pF driven by a 1 ohm source impedance will have a -3dB
>>corner frequency of about 160MHz, but driven from a source impedance
>>of 1000 ohms, it will be a 160kHz corner frequency.  It's pretty
>>common to use them in conjunction with a series inductance or ferrite
>>bead on one or both sides, very close to the feedthrough, so that RF
```

>>isn't picked up by the lead and fed through because the impedance is
>>too low--the inductance or bead guarantees a reasonably high impedance
>>at RF frequencies. You can also get feedthroughs that have not only
>>shunt capacitance, but also series inductance or built-in ferrite.
>>(Note that the ferrite provides some inductance at moderate
>>frequencies, but at higher frequencies--up to a point--the series
>>impedance becomes mainly resistive. That helps damp resonances. See
>>curves of impedance versus frequency for parts found on the TDK
>>website, for example.)
>>
>>Hope that helps...
>>
>>Cheers,
>>Tom
>>
>
>
> Wow. Thank you Tom. Lots more than I found with Google... It is much
> appreciated.

If you need to lower the corner frequency Tom mentioned you can solder a
0603 chip capacitor in the range of 0.01uF to 0.1uF from feedthrough pin
to the can on either or both sides. I always have a whole can of those
at hand, like the salt in a kitchen.

--
Regards, Joerg

http://www.analogconsultants.com

From -2090741782465473871
X-Google-Thread: fc2a5,51838e0d1ff635a7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-04!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on feedthrough caps
Date: Thu, 28 Jun 2007 21:23:35 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1388r9g7qsi820f@corp.supernews.com>
References: <1385p0u1379t62f@corp.supernews.com>
<1182988813.004940.145470@c77g2000hse.googlegroups.com>
<13869nm3gsm09bd@corp.supernews.com>
<ANYgi.9266$c06.5398@newssvr22.news.prodigy.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3138

X-Complaints-To: abuse@supernews.com
Lines: 75
Xref: g2news1.google.com rec.radio.amateur.homebrew:13566

"Joerg" <notthisjoergsch@removethispacbell.net> wrote in message
news:ANYgi.9266$c06.5398@newssvr22.news.prodigy.net...
> Dave wrote:
>
>> "K7ITM" <k7itm@msn.com> wrote in message
>> news:1182988813.004940.145470@c77g2000hse.googlegroups.com...
>>
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>>>>
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>>>shielded areas, most commonly. You can get them in various
>>>capacitance values. 1000pF is common, for example. Overall circuit
>>>design will determine what frequency range can be passed. For
>>>example, 1000pF driven by a 1 ohm source impedance will have a -3dB
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>>>bead on one or both sides, very close to the feedthrough, so that RF
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>>>at RF frequencies. You can also get feedthroughs that have not only
>>>shunt capacitance, but also series inductance or built-in ferrite.
>>>(Note that the ferrite provides some inductance at moderate
>>>frequencies, but at higher frequencies--up to a point--the series
>>>impedance becomes mainly resistive. That helps damp resonances. See
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>>>website, for example.)
>>>
>>>Hope that helps...
>>>
>>>Cheers,

```
>>>Tom
>>>
>>
>>
>> Wow.  Thank you Tom.  Lots more than I found with Google...  It is much
>> appreciated.
>
>
> If you need to lower the corner frequency Tom mentioned you can solder a
> 0603 chip capacitor in the range of 0.01uF to 0.1uF from feedthrough pin
> to the can on either or both sides. I always have a whole can of those at
> hand, like the salt in a kitchen.
>
> --
> Regards, Joerg
>
> http://www.analogconsultants.com

COOL!  Thank you, Joerg.  I will definitly file that in my memory box.
Thank you.

I love usenet...

Dave





From -8472110008654777069
X-Google-Thread: fc2a5,1836fa0dc1da2743,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx01.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-
mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Demodulator
Date: Fri, 29 Jun 2007 06:45:33 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Original
Lines: 5
Message-ID: <4684e2cd$0$24717$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13567

Revamping an old homebrew SW receiver I built about 30 years ago. Is there
an IC that will serve as an AM SSB FM detector. The existing AM/SSB detector
```

is on a board the size of a playing card.

From -3135679395176952337
X-Google-Thread: fc2a5,1836fa0dc1da2743
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 29 Jun 2007 10:20:52 -0500
Date: Fri, 29 Jun 2007 08:26:04 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Demodulator
References: <4684e2cd$0$24717$4c368faf@roadrunner.com>
In-Reply-To: <4684e2cd$0$24717$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <S5mdnYoNNufIvhjbnZ2dnUVZ_sCinZ2d@web-ster.com>
Lines: 26
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-TgIXQBdCmvPV3lzMIIa+tieUug5eHo/mxWyHfM5QKO7B4jK2lGXeHFKVBXXLCu5+zS/
wON3vOQWJSNr!65CQkv/qlTrJsFGD1kg/
ozx1hQ8moYAHB18mIzrMRsdYNGckH6guTbpxi+aq+vVpWGYHzl11zyIw!u2H9PqDULyGD5s9L
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com rec.radio.amateur.homebrew:13568

Jimmie D wrote:
> Revamping an old homebrew SW receiver I built about 30 years ago. Is there
> an IC that will serve as an AM SSB FM detector. The existing AM/SSB detector
> is on a board the size of a playing card.
>
>
You could probably twist some of the FM/IF detectors into doing that. Many of them have RSSI outputs that go as the log of the signal strength, I've seen literature that suggests you can block the DC from that and feed an exponential stage to get AM detection with built-in AGC. For SSB, if you switched out the quadrature filter for FM detection and injected a BFO into the appropriate pin you could get SSB.

But if you're playing around with a board the size of a playing card, why not build three optimized detectors, or get ambitious and slap down a DSP with appropriate ADC and DAC resources?

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From -4659103539286345547
X-Google-Thread: fc2a5,1836fa0dc1da2743
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out03a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr13.news.prodigy.net.POSTED!78df62d6!not-for-
mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Mozilla/5.0 (Windows; U; WinNT4.0; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Demodulator
References: <4684e2cd$0$24717$4c368faf@roadrunner.com>
<S5mdnYoNNufIvhjbnZ2dnUVZ_sCinZ2d@web-ster.com>
In-Reply-To: <S5mdnYoNNufIvhjbnZ2dnUVZ_sCinZ2d@web-ster.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 30
Message-ID: <Q8bhi.469$eY.377@newssvr13.news.prodigy.net>
NNTP-Posting-Host: 75.26.166.246
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr13.news.prodigy.net 1183137456 ST000 75.26.166.246 (Fri, 29 Jun
2007 13:17:36 EDT)
NNTP-Posting-Date: Fri, 29 Jun 2007 13:17:36 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
SCSYQN_@FS@GRQ\Y\ZJB^WTAUKXD@D@MGPW^OBPLAH[\BPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Fri, 29 Jun 2007 17:17:36 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13569
```

Tim Wescott wrote:

> Jimmie D wrote:
>

>> Revamping an old homebrew SW receiver I built about 30 years ago. Is
>> there an IC that will serve as an AM SSB FM detector. The existing
>> AM/SSB detector is on a board the size of a playing card.
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> that and feed an exponential stage to get AM detection with built-in
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> But if you're playing around with a board the size of a playing card,
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But be careful with a DSP in a receiver. They require a clock and
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Of course, a DSP can do all sorts of other stuff like DRM. Although I
doubt DRM will ever make it into the market.

--
Regards, Joerg

http://www.analogconsultants.com

From 8391069168337477037
X-Google-Thread: fc2a5,1836fa0dc1da2743
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <4684e2cd$0$24717$4c368faf@roadrunner.com>
<S5mdnYoNNufIvhjbnZ2dnUVZ_sCinZ2d@web-ster.com>
<Q8bhi.469$eY.377@newssvr13.news.prodigy.net>
Subject: Re: Demodulator
Date: Fri, 29 Jun 2007 21:53:54 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3138
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3138
X-RFC2646: Format=Flowed; Response
Lines: 41
Message-ID: <4685b7b1$0$24759$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13570

"Joerg" <notthisjoergsch@removethispacbell.net> wrote in message
news:Q8bhi.469$eY.377@newssvr13.news.prodigy.net...
> Tim Wescott wrote:
>
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This old dog would have to learn some new tricks to implement DSP. I thought
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Tim's right there is enough room for three descrete detectors. I can easily
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someone can suggest something more modern. Probably a special purpose chip
available that I am not familar with. I wanted to adFM so I could use the rx
with VHF/UHF converter. IF is 455Khz.

Jimmie

From -2329964501042644260
X-Google-Thread: fc2a5,1836fa0dc1da2743
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out03b.usenetserver.com!news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-xfer.nntp.sonic.net!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Demodulator

Date: 30 Jun 2007 13:35:54 GMT
Organization: The National Capital FreeNet
Lines: 46
Message-ID: <f65m7q$qim$1@theodyn.ncf.ca>
References: <4684e2cd$0$24717$4c368faf@roadrunner.com>
<S5mdnYoNNufIvhjbnZ2dnUVZ_sCinZ2d@web-ster.com>
<Q8bhi.469$eY.377@newssvr13.news.prodigy.net>
<4685b7b1$0$24759$4c368faf@roadrunner.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1183210554 27222 134.117.136.48 (30 Jun 2007 13:35:54 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 30 Jun 2007 13:35:54 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13572

"Jimmie D" (GFENDER@carolina.rr.com) writes:
> "Joerg" <notthisjoergsch@removethispacbell.net> wrote in message
> news:Q8bhi.469$eY.377@newssvr13.news.prodigy.net...
>> Tim Wescott wrote:
>>
>>> Jimmie D wrote:
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>>
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> I remembered seeing a chip somewhere that did SSb AM and FM.
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> someone can suggest something more modern. Probably a special purpose chip
> available that I am not familar with. I wanted to adFM so I could use the rx
> with VHF/UHF converter. IF is 455Khz.
>

Once you've gone to a PLL, you're mostly there. Add a bit of phase shift network (the old analog Signetics PLLs always seemed to get away with a bare minimum), and a product detector, and you've got your AM detector. Then you've got your product detector, so all you need is a crystal oscillator for a stable BFO.

    Michael VE2BVW

```
From -7482736882243345674
X-Google-Thread: fc2a5,1836fa0dc1da2743
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out01a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
newscon02.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr11.news.prodigy.net.POSTED!78df62d6!not-for-
mail
From: Joerg <notthisjoergsch@removethispacbell.net>
User-Agent: Mozilla/5.0 (Windows; U; WinNT4.0; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Demodulator
References: <4684e2cd$0$24717$4c368faf@roadrunner.com>
<S5mdnYoNNufIvhjbnZ2dnUVZ_sCinZ2d@web-ster.com>
<Q8bhi.469$eY.377@newssvr13.news.prodigy.net>
<4685b7b1$0$24759$4c368faf@roadrunner.com>
<shgb839bbhkpqq4smpc046gs431l5vmf2j@4ax.com>
In-Reply-To: <shgb839bbhkpqq4smpc046gs431l5vmf2j@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 87
Message-ID: <8mthi.18755$RX.12213@newssvr11.news.prodigy.net>
NNTP-Posting-Host: 75.26.164.204
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr11.news.prodigy.net 1183212036 ST000 75.26.164.204 (Sat, 30 Jun
2007 10:00:36 EDT)
NNTP-Posting-Date: Sat, 30 Jun 2007 10:00:36 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
TSU[@I_A\S@GRQ\Y\ZJB^WTAUKXD@D@MGPW^OBPLAH[\RYIBK^RAQFW[ML\THRCKV^GGZKJMGV^^_JSCFF
UA_QXFGVSCYRPILH]TRVKC^LSN@DX_HCAFX__@J\DAJBVMY\ZWZCZLPA^MVH_P@\
\EOMW\YSXHG__IJQY_@M[A[[AXQ_XDSTAR]\PG]NVAQUVM
Date: Sat, 30 Jun 2007 14:00:36 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13573
```

no.spam@no.uce.bellatlantic.net wrote:

> On Fri, 29 Jun 2007 21:53:54 -0400, "Jimmie D"
> <GFENDER@carolina.rr.com> wrote:
>

>
>>"Joerg" <notthisjoergsch@removethispacbell.net> wrote in message
>>news:Q8bhi.469$eY.377@newssvr13.news.prodigy.net...
>>
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>>>
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>>>
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>>>doubt DRM will ever make it into the market.
>>>
>>
>>This old dog would have to learn some new tricks to implement DSP. I thought
>>I remembered seeing a chip somewhere that did SSb AM and FM.
>
>
> The oldest one was the National LM373. You can do it with SA602/612
> but you will need several. I've used the Motorola MC3357 which is an
> FM chip but if you pick off before the limiter stages you can use a
> diode to get AM.
>
>
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>>squeeze it all in if I redsign the board, Maybe a PLL circuit for FM unless
>>someone can suggest something more modern. Probably a special purpose chip
>>available that I am not familar with. I wanted to adFM so I could use the rx
>>with VHF/UHF converter. IF is 455Khz.
>
>
> FM these days uses a quadrature detector on a chip with limiter
> stages. There are a lot of choices on what to do for FM. they work at

> 455KHz. I'd use one of the moto MC335x chips Usually the choice is
> artificially limited by what you can obtain.
>
> SSB a favorite is the ne602/sa612 chip or my favorite a DBM.
>

If I would build it myself I'd go all out and try to make the best dang
detector this side of the Mississippi. Definitely DBM.

> AM it's hard to beat a diode detector however if you want to try
> something more exotic look up reciprocating detectors.
>
> IF DSP can do it all but it's rare that you can do that without
> putting it in a can to keep all the unwanted stuff from appearing at
> the input. Also unless you are willing to buy expensive most are only
> fast enough to run at an IF much lower than 455kHz (a long list of
> radios with IF DSP convert 455khz down to 12-15khz then use DSP to
> process it).
>

Some are pretty brazen. AFAIK the Winradio goes from a 1st IF of around
109MHz straight down to around 15kHz. No idea how good that works, could
not find anyone who has it.

--
Regards, Joerg

http://www.analogconsultants.com

From 3765233115564986959
X-Google-Thread: fc2a5,1836fa0dc1da2743
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 30 Jun 2007 12:10:29 -0500
Message-Id: <cbfil4-i76.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: Re: Demodulator
Newsgroups: rec.radio.amateur.homebrew
Date: Sat, 30 Jun 2007 12:09:32 -0500
References: <4684e2cd$0$24717$4c368faf@roadrunner.com>
<S5mdnYoNNufIvhjbnZ2dnUVZ_sCinZ2d@web-ster.com>
<Q8bhi.469$eY.377@newssvr13.news.prodigy.net>
<4685b7b1$0$24759$4c368faf@roadrunner.com>
<shgb839bbhkpqq4smpc046gs431l5vmf2j@4ax.com>
Organization: Vast Right-Wing Conspiracy
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7Bit
Lines: 10
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NNTP-Posting-Host: 24.15.125.52
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a4P0hDwX/mZx
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com rec.radio.amateur.homebrew:13574

no.spam@no.uce.bellatlantic.net wrote:
> AM it's hard to beat a diode detector however if you want to try
> something more exotic look up reciprocating detectors.

Can't find a thing on the web about them, and wife just cleaned house so
I can't find half my technical books; how about a synopsis?

--
We can't possibly imprison 300 million Americans for not paying their
taxes, so let's grant all of them amnesty NOW!

From -3185558313750108492
X-Google-Thread: fc2a5,9b4a7fbd8e84f7c1,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k29g2000hsd.googlegroups.com!not-for-mail
From: "ve2ghi@gmail.com" <ve2ghi@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Looking for a specific circuits
Date: Sat, 30 Jun 2007 11:16:34 -0700
Organization: http://groups.google.com
Lines: 14
Message-ID: <1183227394.647714.252010@k29g2000hsd.googlegroups.com>
NNTP-Posting-Host: 24.226.156.13
Mime-Version: 1.0
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X-Trace: posting.google.com 1183227394 4386 127.0.0.1 (30 Jun 2007 18:16:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 30 Jun 2007 18:16:34 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; fr; rv:1.8.1.4) Gecko/20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k29g2000hsd.googlegroups.com; posting-host=24.226.156.13;
   posting-account=-pDttA0AAAAKS4fEAfm0bFN6LvJH7-0x

```
Xref: g2news1.google.com rec.radio.amateur.homebrew:13575

Hello all of you,
During the last field day some members of our club ask if it is
possible to connect to the main station two headsets and a speaker at
the same time. Each headset should have his own control of volume. The
volume of the speaker will be control by the vol of the radio. We
would prefer to use only passives components (no transistors, no power
supply only transfo and/or potentiometer.)
Just point me to the URL that will be ok

Happy day,
73 de Jean (VE2GHI)

PS:. Hope you had a great field day




From -3612016377493329458
X-Google-Thread: fc2a5,fd725f1e373306dd
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 30 Jun 2007 13:49:19 -0500
From: Barnard Peters <one@two.com>
Organization: well
Subject: Re: Novel source for copper antenna wire
Date: Sat, 30 Jun 2007 12:49:19 -0600
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table)
Message-Id: <pan.2007.06.30.18.49.18.901922@blueplanet>
Newsgroups: rec.radio.amateur.homebrew
References: <1386afdnmde38f8@corp.supernews.com>
Reply-To: three@four.com
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 18
X-Usenet-Provider: http://www.giganews.com
NNTP-Posting-Host: 24.8.221.21
X-Trace: sv3-DS7k1r8fbI0PcVUXQYPDxiWocDhzO7arEMedREP0c/
Pijsje3Cp3cIJEt262stMqlRkEKhxv2xlybDj!aFQwYCSpzEm9RfNHCSdXE59f8nc3Pfb25MY/
Ft5Xi2NXoiNYJiikXGgwe/uPTgV8OhFBcd7Km+ZL!v2EOLgdQYA7VrSsSoJP2ZjU=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.35
Xref: g2news1.google.com rec.radio.amateur.homebrew:13576

On Wed, 27 Jun 2007 22:27:12 -0500, msg wrote:
```

> Greetings:
>
> Today, while perusing the wares at a local marine outfitting store, I came
> upon 300 foot reels of 20ga. 7-strand copper wire intended for use as
> "fishing cable". The price is roughly 6.7 cents/foot and the sample I was
> given appeared to be no different from wire sold for electrical purposes
> except for the very tight twist and strong tensile strength. To me it
> looks like great antenna wire at a good price in view of the copper
> bubble. I don't have a milliohmmeter so I cannot conduct conductivity
> tests other than to say that a few inches of it zeros a DMM.
>
> Has anyone used this material?

I found "hard drawn" copper wire used for safety and ground on suspended
chandeliers also works great. It's about the same cost but comes in may
gages.

```
From -3946057647310688469
X-Google-Thread: fc2a5,a36e0230417ab37b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!sn-xt-sjc-02!sn-
xt-sjc-06!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-
mail
From: Chris Jones <lugnut808@nospam.yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS VFO
Date: Mon, 04 Jun 2007 00:56:31 +0100
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1366ho69cb0lbae@corp.supernews.com>
References: <1180728282.446980.33860@u30g2000hsc.googlegroups.com>
<5bKdnWovtewqA_3bRVnysAA@pipex.net> <f3q8i9$bd9$1@puck.litech.org> <cbydnXfa-
outLfzbnZ2dnUVZ_vCknZ2d@comcast.com>
User-Agent: KNode/0.7.7
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Complaints-To: abuse@supernews.com
Lines: 36
Xref: g2news1.google.com rec.radio.amateur.homebrew:13419
```

Jim wrote:

>   Personally, I'd experiment with the AD9951 DDS chip, it's spurious
> outputs are very low....
>
> http://www.radioamatore.it/i0cg/add9951.html
>
>   However, if somebody wants a DDS for direct conversion experiments, the
> AD9854 DDS has built in quadrature outputs which make it tempting. This
> website discusses a complete design and, the kit can be gotten from Kanga.

>
> It is pricy, but in my opinion, it has everything I would need.....
>
> http://home.comcast.net/~aa0zz/index.html
>
> The only drawback is that it's spurious outputs are higher.
>
>
> Jim Pennell
> N6BIU
>
>

If you want quadrature LO signals, and you are operating below half (or ideally below quarter) of the DDS maximum output frequency, then you might find that the best approach is to use the cleanest DDS chip that you can find with a single output, then filter that to remove the harmonics, DAC images etc. and then square it up with a LVDS receiver or comparator, and divide by 2 or 4 using the flipflops of the divider to generate quadrature. The challenging part would be ensuring that propagation delays don't spoil the quadrature, but it probably wouldn't be any harder than making two matched re-construction filters to use with an I-Q DDS chip. The fact that you end up with quadrature square waves rather than quadrature sine waves is a good thing (not a disadvantage at all) with most kinds of mixer.

Chris

From -1332018117753464273
X-Google-Thread: fc2a5,e1d3305d8ab47b5f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1180328007.878025.91940@n15g2000prd.googlegroups.com>
<135ndf2j1nr6e9a@corp.supernews.com> <9rT6i.7365$4S5.3627@trndny01>
<1361umcppdjfcf3@corp.supernews.com> <PeH8i.3713$fX4.964@trndny03>
Subject: Re: A Homebrewer's Blog
Date: Sun, 3 Jun 2007 21:41:37 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Lines: 24
Message-ID: <46636dc8$0$4712$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13420

```
"W3JDR" <joe@roccis.com> wrote in message
news:PeH8i.3713$fX4.964@trndny03...
> >.....how the hell does anyone find his blog a week, after he announces
> >it?
> -----------------------
>
>
> If you're interested in what he has to say, then you could bookmark in
> your browser's 'Favorites', it or put it on your browser's 'Links' bar, or
> set up a browser Tab for it. I follow several blogs this way. Of course,
> if you're not interested in following it, or if he doesn't keep it fresh
> enough to sustain interest in it, then either it will die or you'll remove
> the browser references to it. That's sort of how blogs work.
>
>
> Joe
> W3JDR
>

Most of the blogs I have found and keep up with I have discovered through
announcements on usenets and bookmark them.




From 6842691474403471404
X-Google-Thread: fc2a5,c4893bbcc3553365
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: GERMAN,ASCII
Path: g2news1.google.com!postnews.google.com!a26g2000pre.googlegroups.com!not-for-
mail
From:  bernado <werner-grosse@web.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ECHOLINK - attacks by P2P connection ?
Date: Sun, 03 Jun 2007 23:40:19 -0700
Organization: http://groups.google.com
Lines: 10
Message-ID: <1180939219.886238.221310@a26g2000pre.googlegroups.com>
References: <1180750636.231022.61960@q19g2000prn.googlegroups.com>
   <5cc7frF30104kU1@mid.dfncis.de>
NNTP-Posting-Host: 125.26.246.52
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1180939220 957 127.0.0.1 (4 Jun 2007 06:40:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 4 Jun 2007 06:40:20 +0000 (UTC)
In-Reply-To: <5cc7frF30104kU1@mid.dfncis.de>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; de; rv:1.8.1.4) Gecko/
20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
```

Injection-Info: a26g2000pre.googlegroups.com; posting-host=125.26.246.52;
   posting-account=BA58SA0AAADgJBK95WtfKImV2jnboHnj
Xref: g2news1.google.com rec.radio.amateur.homebrew:13421

Vielen Dank lieber OM f=FCr die wertvollen Ausf=FChrungen.

Wir beobachten diese Situation weiter, insbesondere das PORT scanning
von 5198 - 5200 mit geografischer N=E4he zu China.

T=E4glich werden wir hier in S=FCdostasien von diversen Servern aus China
und Taiwan mit Port scans and andere Nicklichlichkeiten bombardiert
und erfreut.

From -8734962689694960158
X-Google-Thread: fc2a5,5502aaea195b61c7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder3.cambrium.nl!feeder5.cambrium.nl!
feeder1.cambrium.nl!feed.tweaknews.nl!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-
ams-05!sn-post-ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question for the group...
Date: Mon, 4 Jun 2007 08:25:49 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <13684n4405kom02@corp.supernews.com>
References: <1361eplquqruj46@corp.supernews.com>
<1180798741.968920.246430@i38g2000prf.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Complaints-To: abuse@supernews.com
Lines: 83
Xref: g2news1.google.com rec.radio.amateur.homebrew:13422

"K7ITM" <k7itm@msn.com> wrote in message
news:1180798741.968920.246430@i38g2000prf.googlegroups.com...
> On Jun 1, 5:35 pm, "Dave" <db5...@hotmail.com> wrote:
>> Has anyone ever heard of anything like the experiment I am currently
>> concocting? I have taken an Amidon T50-2 toroid form and wrapped it with
>> 57
>> turns of #32 enamaled wire, giving it an inductance of 16 uH, then
>> wrapped
>> over that layer with 150 turns of #36 wire. The first layer (16 uH) I am
>> using for tuning my home-built active antenna, and am relying on
>> resonance
>> to send a signal through the outer layer, which I *think* should act like

>> a
>> step-up transformer for that signal. This layer is grounded on one end,
>> and
>> feeds into the first stage of amplification on the other. And it does
>> seem
>> to work, only the toroid seems to resonate at around 10 MHz with my
>> tuning
>> capacitor set to 114 pF, when it should (I thought) resonate at something
>> lower, like around 3.7 MHz.
>>
>> And like I said, the step-up transformer part does seem to work, but I
>> can't
>> tune as low as I would like. Has anyone ever hear of anyone else trying
>> anything like this? If so, what is it called, and where can I find info
>> on
>> the subject?
>>
>> Many thanks for any help...
>>
>> Dave
>
> The reactance of the coil at 3.7MHz is about 375 ohms. Your long
> antenna will likely put an impedance across that tank that's on the
> same order, or maybe lower, impedance. That will pretty much kill any
> resonant peak you got from the coil and capacitor.
>
> You should start, perhaps, by realizing that what you are looking for
> is generally not the largest voltage from the antenna, assuming you
> can add whatever amplification you want, but rather the best signal to
> noise ratio or the lowest distortion. In fact, atmospheric noise is
> so large at these HF frequencies that it doesn't take much of an
> antenna to pick up more of that atmospheric noise than the receiver
> will contribute, assuming a decent receiver. Making the signal larger
> just increases the distortion and the chances that strong signals will
> cause distortion that covers up the weak ones.
>
> There IS an advantage to having sharply resonant circuits in front of
> any gain stages in the receiver, because you can use them to get rid
> of unwanted signals, and preferentially select the signals you want to
> listen to. But to do that, you need to think more carefully about the
> design of the resonant circuit.
>
> You may in fact find that it works a lot better if you couple your
> antenna to the tuned circuit (your toroid core and capacitor) rather
> loosely, like with very few turns--perhaps a single turn-- through the
> core for the antenna connection. Even back in the very early days of
> radio, the advantages of a sharp resonance achieved by loose coupling
> to a resonant circuit were understood: they used something called a
> "loose coupler" that let them adjust the coupling from the antenna to
> the tuned tank/detector. For best selectivity, couple lightly, just
> enough to get a usable signal. That means coupling the receiver input
> lightly to the tuned circuit, too.
>

> Cheers,
> Tom
>

Thanks, Tom,

I ran a single turn of wire from my antenna input through the toriod, and it does give me much better tuning ability. And WWV at least comes in like it's in my back pocket. The 1300 UTC broadcast of Voice of Korea was lost in the noise, but I'm guessing that could just be atmospheric conditions.

Thank you for the input. Any other ideas on how I could sharpen the resonant peak of the tank circuit?

Dave

```
From -2490801547098899895
X-Google-Thread: fc2a5,a36e0230417ab37b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m36g2000hse.googlegroups.com!not-for-
mail
From:  Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS VFO
Date: Mon, 04 Jun 2007 08:33:18 -0700
Organization: http://groups.google.com
Lines: 32
Message-ID: <1180971198.286998.298150@m36g2000hse.googlegroups.com>
References: <1180728282.446980.33860@u30g2000hsc.googlegroups.com>
   <5bKdnWovtewqA_3bRVnysAA@pipex.net>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1180971198 19708 127.0.0.1 (4 Jun 2007 15:33:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 4 Jun 2007 15:33:18 +0000 (UTC)
In-Reply-To: <5bKdnWovtewqA_3bRVnysAA@pipex.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m36g2000hse.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com rec.radio.amateur.homebrew:13423
```

On Jun 1, 6:33 pm, Highland Ham <abcgm0csz.kn6wh...@dsl.pipex.com> wrote:

> pawludeb...@gmail.com wrote:
> > Where can I buy a ready built synstesised 1-30 Mhz vfo ???

>
> ------------------
> This is an NG for radio amateurs who are interested in building their
> own equipment including equipment from kits   NOT for buying ready
> built equipment.

Well, a VFO is not a complete piece of equipment. It's something that might be integrated into any number of different devices. Yeah, you could hook one straight to an antenna and make a QRP transmitter, but he didn't ask for a QRP transmitter, he asked for a VFO.

Saying that buying a VFO module is not in the spirit of homebrewing may be right for the old-timers who used to make their own resistors by baking carbon and build their own capacitors from mica sheet they dug up in their backyard. Yes, I've met folks like that. But they're remarkably rare.

Even getting away from the issues of lots of homebrewers being uncomfortable with laying out a SMT DDS synth, doing a very well-done temperature compensated LC tuned VFO is something that requires considerable skill. In fact I've done both and found the DDS route to be easier, if less satisfying in the end!

Even manufacturers of major reputation often buy their VFO's and canned crystal oscillators from other sources.

Tim.

From -9188389991385408254
X-Google-Thread: fc2a5,171d4f54318dbf0b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g4g2000hsf.googlegroups.com!not-for-mail
From: Mad Scientist Jr <usenet_daughter@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: radio shielding?
Date: Mon, 04 Jun 2007 17:57:54 -0000
Organization: http://groups.google.com
Lines: 58
Message-ID: <1180979874.465394.19780@g4g2000hsf.googlegroups.com>
References: <1180545505.579295.88730@g4g2000hsf.googlegroups.com>
   <465ec15f.1000289@news.sysmatrix.net>
   <1180616907.495853.12960@a26g2000pre.googlegroups.com>
   <1180622280.463445.204170@g4g2000hsf.googlegroups.com>
   <PuCdnSorG5xkb8LbnZ2dnUVZ8tijnZ2d@pipex.net>
NNTP-Posting-Host: 12.150.126.82
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1180979874 11296 127.0.0.1 (4 Jun 2007 17:57:54 GMT)
X-Complaints-To: groups-abuse@google.com

NNTP-Posting-Date: Mon, 4 Jun 2007 17:57:54 +0000 (UTC)
In-Reply-To: <PuCdnSorG5xkb8LbnZ2dnUVZ8tijnZ2d@pipex.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.4)
Gecko/20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=12.150.126.82;
   posting-account=hqcX8A0AAABKXTlWUU3mGm_QMZM61ECd
Xref: g2news1.google.com rec.radio.amateur.homebrew:13424

I finally got around to replacing the wires from the potentiometer, rheostat, input and speaker out all with shielded cable which worked - 99.9% of the noise is gone. The only noise left is a slight buzz which goes away when my hand touches the guitar strings. (Which leads me to question whether the guitar is properly grounded. Any advice on how to ensure that it is?)

Anyway thanks to everyone for their replies, the shielded wire did the trick.

On Jun 1, 6:20 am, charlie <wehates...@wymsey.co.uk> wrote:
> Mad Scientist Jr wrote:
> > I am just plugging an electric guitar directly into the input. I don't
> > have the actual circuit here with me right now but the schematic is
> > here (see page 5):
>
> >http://makezine.com/09/crackerboxamp/
>
> > I believe the + of the input goes to a 0.01 uF capacitor, the - goes
> > to ground.
>
> > BTW can anyone explain how to add an XLR out (either balanced or
> > unbalanced) to directly connect the amp to a mixer or recorder?
>
> ><SNIP>
>
> First of all, any sensitive amplifier needs to be build in a metal
> box no bigger than is necessary. The box acts as a screen so you
> have no need to use screen leads inside the box. The circuit you
> have used has no RF decoupling at the input nor on the supply (the
> 100uf capacitor on the supply will not decouple very well at RF), I
> would put a 10n ceramic capacitor across it and, for good measure, a
> 100n across that!
>
> At the input I would put something like 1n to ground (if your input
> is a guitar then the pickup will be low impedance so there won't be
> any effect on it's output. I would also be tempted to put an RF
> choke in series with the input.
>
> If, as I suspect, you are picking up AM broadcasts coiling the input
> cable a few times at the input won't have much effect.

```
>
> These links may be useful:
>
> http://www.rane.com/note151.html
>
> http://www.benchmarkmedia.com/caig/html/caig06.html
>
> Good luck!
>
> Charlie.
>
> --
> M0WYMwww.radiowymsey.org




From -2837790900455627706
X-Google-Thread: fc2a5,b6830d71ff459745,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q66g2000hsg.googlegroups.com!not-for-
mail
From:  acamil <acamil@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: WTS Hammarlud HXL-ONE
Date: Mon, 04 Jun 2007 22:41:00 -0000
Organization: http://groups.google.com
Lines: 3
Message-ID: <1180996860.945135.98550@q66g2000hsg.googlegroups.com>
NNTP-Posting-Host: 69.125.13.255
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180996861 29888 127.0.0.1 (4 Jun 2007 22:41:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 4 Jun 2007 22:41:01 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.4)
Gecko/20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q66g2000hsg.googlegroups.com; posting-host=69.125.13.255;
   posting-account=YkjRgw0AAABH9oDJ036cRVuMdriGf5fU
Xref: g2news1.google.com rec.radio.amateur.homebrew:13425

In good condition asking $550.00 or best offer. Located in Clifton NJ
07013 USA




From 8227061856875736565
X-Google-Thread: fc2a5,f654651750b0f9f7,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Tube reccomendation
Date: Tue, 5 Jun 2007 02:36:36 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Lines: 10
Message-ID: <4665046a$0$4658$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13426

I have heard there are some tubes that use plate caps that are basically the
same as a 6L6.
The only readon I want to use something like this is because of the design
of the output transformer
I have. The B+ connection is on the bottom, underside of the chassis, and
the plate connection is on the top.

Jimmie

From 5247176494701468941
X-Google-Thread: fc2a5,f654651750b0f9f7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Reply-To: "Steve H" <mycalland remove the blank@arrl   .net>
From: "Steve H" <mycalland remove the blank@arrl   .net>
Newsgroups: rec.radio.amateur.homebrew
References: <4665046a$0$4658$4c368faf@roadrunner.com>
Subject: Re: Tube reccomendation
Date: Tue, 5 Jun 2007 10:16:58 +0100
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <46652a0a_4@mk-nntp-2.news.uk.tiscali.com>
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NNTP-Posting-Host: mk-nntp-2.news.uk.tiscali.com
X-Trace: 5 Jun 2007 10:17:01 +0100, mk-nntp-2.news.uk.tiscali.com
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
newsfeed1.ip.tiscali.net!tiscali!newsfeed2.ip.tiscali.net!212.74.112.120.MISMATCH!
mk-nntp-1.news.uk.tiscali.com!mk-nntp-2.news.uk.tiscali.com

```
Xref: g2news1.google.com rec.radio.amateur.homebrew:13427
```

"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
news:4665046a$0$4658$4c368faf@roadrunner.com...

>I have heard there are some tubes that use plate caps that are basically
>the same as a 6L6.
> The only readon I want to use something like this is because of the design
> of the output transformer
> I have. The B+ connection is on the bottom, underside of the chassis, and
> the plate connection is on the top.
>
> Jimmie
>
>

807

Steve H

```
From 5117021455227268106
X-Google-Thread: fc2a5,f654651750b0f9f7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!news.netcologne.de!
newsfeed-fusi2.netcologne.de!newsfeed.freenet.de!border2.nntp.ams.giganews.com!
nntp.giganews.com!feeder4.cambrium.nl!feed.tweaknews.nl!nntp-peering.plus.net!ptn-
nntp-feeder03.plus.net!ptn-nntp-spool02.plus.net!ptn-nntp-reader02.plus.net!not-
for-mail
Reply-To: "Peter Able" <stuck@home>
From: "Peter Able" <stuck@home>
Newsgroups: rec.radio.amateur.homebrew
References: <4665046a$0$4658$4c368faf@roadrunner.com> <46652a0a_4@mk-
nntp-2.news.uk.tiscali.com>
Subject: Re: Tube reccomendation
Date: Tue, 5 Jun 2007 12:46:53 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Lines: 28
Message-ID: <46654d28$0$8744$ed2619ec@ptn-nntp-reader02.plus.net>
Organization: Customer of PlusNet plc (http://www.plus.net)
NNTP-Posting-Host: 6e074723.ptn-nntp-reader02.plus.net
X-Trace: DXC=^_NjV_gRRg;8oi039;1jQ3igd3Y`7Rb;>37XnI;
[OUC4G`jPeGcW;i;ETXmaIffL884Tm7de1j468Bbe15mUP=N5
X-Complaints-To: abuse@plus.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13428
```

"Steve H" <mycalland remove the blank@arrl .net> wrote in message

```
news:46652a0a_4@mk-nntp-2.news.uk.tiscali.com...
>
> "Jimmie D" <GFENDER@carolina.rr.com> wrote in message
> news:4665046a$0$4658$4c368faf@roadrunner.com...
> >I have heard there are some tubes that use plate caps that are basically
> >the same as a 6L6.
> > The only readon I want to use something like this is because of the
design
> > of the output transformer
> > I have. The B+ connection is on the bottom, underside of the chassis,
and
> > the plate connection is on the top.
> >
> > Jimmie
> >
> >
>  807
>
> Steve H
>
>

Or, if it needs to be smaller than an 807 and you can find it, a 5B/254M





From 3801599480777454295
X-Google-Thread: fc2a5,f654651750b0f9f7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out01a.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc07.POSTED!bd4bc733!
not-for-mail
From: Bob <balbert3@verizon.net>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube reccomendation
References: <4665046a$0$4658$4c368faf@roadrunner.com> <46652a0a_4@mk-
nntp-2.news.uk.tiscali.com> <46654d28$0$8744$ed2619ec@ptn-nntp-reader02.plus.net>
In-Reply-To: <46654d28$0$8744$ed2619ec@ptn-nntp-reader02.plus.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 28
Message-ID: <avg9i.11$ng.2@trnddc07>
Date: Tue, 05 Jun 2007 16:50:14 GMT
NNTP-Posting-Host: 71.105.101.239
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc07 1181062214 71.105.101.239 (Tue, 05 Jun 2007 12:50:14 EDT)
NNTP-Posting-Date: Tue, 05 Jun 2007 12:50:14 EDT
```

```
Xref: g2news1.google.com rec.radio.amateur.homebrew:13429

Peter Able wrote:
> "Steve H" <mycalland remove the blank@arrl .net> wrote in message
> news:46652a0a_4@mk-nntp-2.news.uk.tiscali.com...
>> "Jimmie D" <GFENDER@carolina.rr.com> wrote in message
>> news:4665046a$0$4658$4c368faf@roadrunner.com...
>>> I have heard there are some tubes that use plate caps that are basically
>>> the same as a 6L6.
>>> The only readon I want to use something like this is because of the
> design
>>> of the output transformer
>>> I have. The B+ connection is on the bottom, underside of the chassis,
> and
>>> the plate connection is on the top.
>>>
>>> Jimmie
>>>
>>>
>>  807
>>
>> Steve H
>>
>>
>
> Or, if it needs to be smaller than an 807 and you can find it, a 5B/254M
>
>
>
Or a 2E26.


From 8385087862866588600
X-Google-Thread: fc2a5,f654651750b0f9f7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 05 Jun 2007 12:35:52 -0500
Date: Tue, 05 Jun 2007 10:40:13 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 1.5.0.12 (Windows/20070509)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube reccomendation
References: <4665046a$0$4658$4c368faf@roadrunner.com>
In-Reply-To: <4665046a$0$4658$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <YvCdnYHDmIxkA_jbnZ2dnUVZ_qninZ2d@web-ster.com>
Lines: 27
NNTP-Posting-Host: 65.182.233.156
```

```
X-Trace: sv3-iK3IlQRM4WBa2pJB1gi2n/eDQ1A3EpCwLVFMC55WG4PJAPN8a2wdjr46R/
BrqH3NoHTGjun8Fb1GQXa!wF0CFp8IfNuBX/B9F5L2ZGSdVyW/T1YE7/LrHwkthWK2lo9Ja7eo9F/
w9bnKfQRuQmclQcYdVWk7!gmmZ5g6/G6Nl4ksT
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13430
```

Jimmie D wrote:

> I have heard there are some tubes that use plate caps that are basically the
> same as a 6L6.
> The only readon I want to use something like this is because of the design
> of the output transformer
> I have. The B+ connection is on the bottom, underside of the chassis, and
> the plate connection is on the top.
>
> Jimmie
>
>

Basically the same as in beam tetrodes in the same power class, yes.
There are tons of them; one good way to figure it out is to get your
hands on an ARRL handbook of the appropriate vintage and go shopping
among the transmitting and horizontal sweep tubes for ones that look likely.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From 2145718358576270075
X-Google-Thread: fc2a5,ac652d6c57376e0,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe12.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Proctologically Violated��" <entropic3.14decay@optonline2.718.net>
From: "Proctologically Violated��" <entropic3.14decay@optonline2.718.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Poor fm,am radio reception--solutions?
Lines: 54
Organization: Ind. Party of the PV'd
X-Priority: 3
```

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <hBi9i.34$1T2.17@newsfe12.lga>
Date: Tue, 5 Jun 2007 15:13:27 -0400
NNTP-Posting-Host: 67.86.230.83
X-Complaints-To: abuse@cv.net
X-Trace: newsfe12.lga 1181070797 67.86.230.83 (Tue, 05 Jun 2007 12:13:17 MST)
NNTP-Posting-Date: Tue, 05 Jun 2007 12:13:17 MST
Xref: g2news1.google.com rec.radio.amateur.homebrew:13431

Awl-- (also posted to rra.antenna)

I posted some time ago regarding the tuning circuitry of car radios vs. home radios/stereos.
I had long noticed much superior tuning in car radios over my home radios.
Several apparently knowledgeable people on a few radio ngs confirmed this, even explained it, altho this went over my head.

So based on this assumption of tuning superiority, I went to *great lengths* to remove a very nice 6-speaker stereo from a car I'm junking (1990 Mazda 929S--nice car, too, seen better days), to hook up in my shop, so I can listen to some decent radio, instead of brain-killing Reality TV.

Finally accomplished said task, and, big big bummer, the reception of the car radio in my shop/garage is even worse than my home radios/stereos!
Yet, this *same radio*, when I used to park the car this very same garage, had great reception.

Whazzup????

And, in general, what can I do about this reception problem, since it appears that a car stereo is not the immediate solution?
I have a 100 foot tree outside, and I'm thinking of climbing it and putting some kind of antenna at the top.
If I did this, what would be the best thing to put up there, for as much reception as I can get: fm, am, TV, whatever else is oscillating up there.

What is the problem here, and in much of the NYC area?. No valleys, and I am even on a bit of a hill, about 10 mi. from Manhattan.
What are my options? Preferably simple/cheap options, but at this point, I'll try pretty much anything.

When I was a kid (in NYC), I calculated wavelengths, etc, and had antennas "cut to size" for the various FM stations I was listening to, in all kinds of orientations. Musta had about 30 antennas taped up in my room. It was hilarious, BUT I got good reception, and LOTS of stations!
Those same dipole-type antennas are near-useless here.
:(

TIA.
--

Mr. P.V.'d (formerly Droll Troll), Yonkers, NY

Stop Corruption in Congress & Send the Ultimate Message:
Absolutely Vote, but NOT for a Democrat or a Republican.
Ending Corruption in Congress is the *Single Best Way*
to Materially Improve Your Family's Life.
The Solution is so simple--and inexpensive!

entropic3.14decay at optonline2.718 dot net; remove pi and e to reply--ie,
all d'numbuhs

```
From 2111428614600087222
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe12.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Proctologically Violated��" <entropic3.14decay@optonline2.718.net>
From: "Proctologically Violated��" <entropic3.14decay@optonline2.718.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>
<1180583642.877955.169570@o5g2000hsb.googlegroups.com>
<z5adnVd7TNWBPsPbnZ2dnUVZ8vmdnZ2d@pipex.net> <466076bf.442271@news.iol.ie>
Subject: Re: Car and Deep Cycle Battery FAQ
Lines: 31
Organization: Ind. Party of the PV'd
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <3Ui9i.37$1T2.8@newsfe12.lga>
Date: Tue, 5 Jun 2007 15:33:27 -0400
NNTP-Posting-Host: 67.86.230.83
X-Complaints-To: abuse@cv.net
X-Trace: newsfe12.lga 1181071999 67.86.230.83 (Tue, 05 Jun 2007 12:33:19 MST)
NNTP-Posting-Date: Tue, 05 Jun 2007 12:33:19 MST
Xref: g2news1.google.com uk.radio.amateur:115275 rec.radio.amateur.misc:36258
rec.radio.amateur.homebrew:13432
```

Unless the night rate were substantially less than the day rate, inherent
losses in any energy conversion proly make this strategy a wash.
At 80% of the day rate, he was proly breaking even.
--

Mr. P.V.'d (formerly Droll Troll), Yonkers, NY

Stop Corruption in Congress & Send the Ultimate Message:
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to Materially Improve Your Family's Life.
The Solution is so simple--and inexpensive!

entropic3.14decay at optonline2.718 dot net; remove pi and e to reply--ie,
all d'numbuhs

"zpk" <zpk_pkearn_class_a_licensee@aruba.eircom.india.net.com> wrote in
message news:466076bf.442271@news.iol.ie...
> Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote:
>
>> However car batteries can be used very effectively for amateur radio
>> operations by using them as a peak current provider in conjunction with
>
> a certain g7 used to charge his batteries on night-rate electricity and
> then run his bbs off them during the day.
>
> and that was in the mid 90's.
>
>

From -7243940120237827301
X-Google-Thread: 108ff0,e5e05fbb1755aa58,start
X-Google-Thread: 111d0a,e5e05fbb1755aa58,start
X-Google-Thread: 1118be,e5e05fbb1755aa58,start
X-Google-Thread: fc2a5,e5e05fbb1755aa58,start
X-Google-Thread: 114aac,e5e05fbb1755aa58,start
X-Google-Attributes:
gid108ff0,gid111d0a,gid1118be,gidfc2a5,gid114aac,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w5g2000hsg.googlegroups.com!not-for-mail
From: Mad Scientist Jr <usenet_daughter@yahoo.com>
Newsgroups:
alt.music.makers.electronic,sci.electronics.basics,sci.electronics.components,rec.radio.amateur.homebrew,rec.radio.shortwave
Subject: small variable capacitors (measured in uF)? measuring capacitance?
Date: Tue, 05 Jun 2007 22:25:28 -0000
Organization: http://groups.google.com
Lines: 29
Message-ID: <1181082328.915396.165520@w5g2000hsg.googlegroups.com>
NNTP-Posting-Host: 12.150.126.82
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1181082329 5802 127.0.0.1 (5 Jun 2007 22:25:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 5 Jun 2007 22:25:29 +0000 (UTC)
User-Agent: G2/1.0

X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.4)
Gecko/20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: w5g2000hsg.googlegroups.com; posting-host=12.150.126.82;
   posting-account=hqcX8A0AAABKXTlWUU3mGm_QMZM61ECd
Xref: g2news1.google.com alt.music.makers.electronic:1435
sci.electronics.basics:54715 sci.electronics.components:15968
rec.radio.amateur.homebrew:13433 rec.radio.shortwave:113196

I would like to hook up a variable capacitor to some audio circuits I built for learning about synths and amps
(schematics are here:
http://www.geocities.com/usenet_daughter/tone_generators.htm)
http://www.runoffgroove.com/littlegem.html
http://www.runoffgroove.com/ruby.html
http://makezine.com/09/crackerboxamp/
)

because in some of these the capacitors change the pitch, tone or other qualities.

These circuits run off a 9V battery and use capacitors with ratings such as
220 uF
100uF,
0.1 uF,
0.01 uF
0.047 uF
so I would want variable caps in this range.
Do these exist? Online all I am seeing is ones rated in pF.

Also, assuming I find these, and get them working in the circuit, and find a desired setting for a capacitor, how do you measure the capacitance? I have a multimeter but have really only used it to measure ohms.

Thanks...

From -6141410888069009309
X-Google-Thread: 108ff0,e5e05fbb1755aa58
X-Google-Thread: 111d0a,e5e05fbb1755aa58
X-Google-Thread: 1118be,e5e05fbb1755aa58
X-Google-Thread: fc2a5,e5e05fbb1755aa58
X-Google-Thread: 114aac,e5e05fbb1755aa58
X-Google-Attributes:
gid108ff0,gid111d0a,gid1118be,gidfc2a5,gid114aac,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!news-in-01.newsfeed.easynews.com!easynews.com!easynews!easynews-local!
fe07.news.easynews.com.POSTED!not-for-mail
Newsgroups:

alt.music.makers.electronic,sci.electronics.basics,sci.electronics.components,rec.radio.amateur.homebrew,rec.radio.shortwave
Subject: Re: small variable capacitors (measured in uF)? measuring capacitance?
From: Lostgallifreyan <no-one@nowhere.net>
References: <1181082328.915396.165520@w5g2000hsg.googlegroups.com>
Message-ID: <Xns9946EFFB9AABDzoodlewurdle@140.99.99.130>
Followup-To: sci.electronics.components
User-Agent: Xnews/06.08.25
Lines: 23
X-Complaints-To: abuse@easynews.com
Organization: EasyNews, UseNet made Easy!
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Tue, 05 Jun 2007 22:35:46 GMT
Xref: g2news1.google.com alt.music.makers.electronic:1436
sci.electronics.basics:54716 sci.electronics.components:15969
rec.radio.amateur.homebrew:13434 rec.radio.shortwave:113197

Mad Scientist Jr <usenet_daughter@yahoo.com> wrote in
news:1181082328.915396.165520@w5g2000hsg.googlegroups.com:

> These circuits run off a 9V battery and use capacitors with ratings
> such as
> 220 uF
> 100uF,
> 0.1 uF,
> 0.01 uF
> 0.047 uF
> so I would want variable caps in this range.
> Do these exist? Online all I am seeing is ones rated in pF.
>

They'd be HUGE. Easily as big as a fridge or a car, even a truck in the case of 220 �F.

What matters is the timing, as it's timing that matters in amps and synthesizers, except for power supplies or sample and hold circuits where capacity is more important.

To get long timing with small capacitors, use large value resistors, and make sure you have low leakage capacitors.

From 7793827549370516150
X-Google-Thread: fc2a5,f654651750b0f9f7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread1.news.pas.earthlink.net.POSTED!a9c97237!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube reccomendation
From: Darrell <nobody@nobody.com>

```
References: <4665046a$0$4658$4c368faf@roadrunner.com>
Message-ID: <Xns9946BFDDC46AFnobodynobodycom@207.217.125.201>
User-Agent: Xnews/5.04.25
Lines: 17
Date: Tue, 05 Jun 2007 23:51:34 GMT
NNTP-Posting-Host: 65.40.211.65
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1181087494 65.40.211.65 (Tue, 05 Jun
2007 16:51:34 PDT)
NNTP-Posting-Date: Tue, 05 Jun 2007 16:51:34 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13435
```

I think you're looking for a 6BG6.

Darrell

> I have heard there are some tubes that use plate caps that are
> basically the same as a 6L6.
> The only readon I want to use something like this is because of the
> design of the output transformer
> I have. The B+ connection is on the bottom, underside of the chassis,
> and the plate connection is on the top.
>
> Jimmie
>
>

```
From 8647685723141980266
X-Google-Thread: fc2a5,ac652d6c57376e0
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!j4g2000prf.googlegroups.com!not-for-
mail
From:  Andrew VK3BFA <ablight@alphalink.com.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Poor fm,am radio reception--solutions?
Date: Tue, 05 Jun 2007 18:18:00 -0700
Organization: http://groups.google.com
Lines: 31
Message-ID: <1181092680.909431.281690@j4g2000prf.googlegroups.com>
References: <hBi9i.34$1T2.17@newsfe12.lga>
NNTP-Posting-Host: 218.215.130.92
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1181092681 23665 127.0.0.1 (6 Jun 2007 01:18:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 6 Jun 2007 01:18:01 +0000 (UTC)
```

In-Reply-To: <hBi9i.34$1T2.17@newsfe12.lga>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.4) Gecko/
20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j4g2000prf.googlegroups.com; posting-host=218.215.130.92;
   posting-account=EWANPAwAAAAIMf8u_DoGHaMCx0gCEW5D
Xref: g2news1.google.com rec.radio.amateur.homebrew:13436

On Jun 6, 5:13 am, "Proctologically Violated=A9=AE"
<entropic3.14de...@optonline2.718.net> wrote:
> Awl-- (also posted to rra.antenna)

> I had long noticed much superior tuning in car radios over my home radios.
> Several apparently knowledgeable people on a few radio ngs confirmed this,
> even explained it, altho this went over my head.
>
>
> *Finally* accomplished said task, and, big big bummer, the reception of t=
he
> car radio in my shop/garage is even worse than my home radios/stereos!
> Yet, this *same radio*, when I used to park the car this very same garage,
> had great reception.
>
> Whazzup????

Your on the right track OK - dont give up. Car radios ARE better,
their designed to operate on crappy aerials in a noisy environment.
BUT, they are optimised for the car type aerial - wont go into the
physics. As an starting point,can you plug in a car antenna, even if
it needs getting an extension lead to get it outside and into clear
space? - the leads are available from car stereo places, come with all
the correct plugs/sockets, and (usually) some extra capacitance to
match into the car antenna.....

Let us know how you get on, its a worthwhile project....

Andrew VK3BFA.

From -1697146178646444182
X-Google-Thread: fc2a5,3303cc0d209adeff
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!nntpserver.com!zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-
v0.1!not-for-mail
From: "john jardine" <john@jjdesigns.fsnet.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <134vkhon42648a0@corp.supernews.com>

<1180325069.420988.91950@h2g2000hsg.googlegroups.com> <1q6dnbbDR-jdXMfbnZ2dnUVZ8t-nnZ2d@pipex.net> <0xA6i.136748$_c5.91625@attbi_s22>
<v4qdncWPZcDWd8fbnZ2dnUVZ8qKvnZ2d@pipex.net> <UnD6i.75613$n_.298@attbi_s21>
<Vsadnfg1mcOnj8bbnZ2dnUVZ8sylnZ2d@pipex.net>
Subject: Re: VFO.... Zero TC caps
Date: Mon, 4 Jun 2007 21:31:25 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Lines: 11
Message-ID: <46646a51$0$11761$88260bb3@free.teranews.com>
NNTP-Posting-Date: 04 Jun 2007 19:38:58 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13438

"Highland Ham" <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote in message
news:Vsadnfg1mcOnj8bbnZ2dnUVZ8sylnZ2d@pipex.net...
[...]
> PP is just an identification for this size of battery like AA and AAA
> for 1.2/1.5 V cylindrical batteries

It's PP3
        ^

--
Posted via a free Usenet account from http://www.teranews.com

From 4268389873274133272
X-Google-Thread: fc2a5,ac652d6c57376e0
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!out03b.usenetserver.com!news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe12.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Proctologically Violated��" <entropic3.14decay@optonline2.718.net>
From: "Proctologically Violated��" <entropic3.14decay@optonline2.718.net>
Newsgroups: rec.radio.amateur.homebrew
References: <hBi9i.34$1T2.17@newsfe12.lga>
<1181092680.909431.281690@j4g2000prf.googlegroups.com>
Subject: Re: Poor fm,am radio reception--solutions?
Lines: 64
Organization: Ind. Party of the PV'd
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <BFo9i.661$Eo.83@newsfe12.lga>
Date: Tue, 5 Jun 2007 22:07:39 -0400
NNTP-Posting-Host: 67.86.230.83
X-Complaints-To: abuse@cv.net
X-Trace: newsfe12.lga 1181095649 67.86.230.83 (Tue, 05 Jun 2007 19:07:29 MST)
NNTP-Posting-Date: Tue, 05 Jun 2007 19:07:29 MST
Xref: g2news1.google.com rec.radio.amateur.homebrew:13439

"Andrew VK3BFA" <ablight@alphalink.com.au> wrote in message
news:1181092680.909431.281690@j4g2000prf.googlegroups.com...
On Jun 6, 5:13 am, "Proctologically Violated��"
<entropic3.14de...@optonline2.718.net> wrote:
> Awl-- (also posted to rra.antenna)

> I had long noticed much superior tuning in car radios over my home radios.
> Several apparently knowledgeable people on a few radio ngs confirmed this,
> even explained it, altho this went over my head.
>
>
> *Finally* accomplished said task, and, big big bummer, the reception of
> the
> car radio in my shop/garage is even worse than my home radios/stereos!
> Yet, this *same radio*, when I used to park the car this very same garage,
> had great reception.
>
> Whazzup????

Your on the right track OK - dont give up. Car radios ARE better,
their designed to operate on crappy aerials in a noisy environment.
BUT, they are optimised for the car type aerial - wont go into the
physics. As an starting point,can you plug in a car antenna, even if
it needs getting an extension lead to get it outside and into clear
space? - the leads are available from car stereo places, come with all
the correct plugs/sockets, and (usually) some extra capacitance to
match into the car antenna.....

Let us know how you get on, its a worthwhile project....

It is funny how a car antenna is vertical, when most dipoles are horizontal.
Anyway, I have a car antenna floating around I could use.
In the meantime, I dropped two conductor wire from my top window, about 40
feet up.
THAT oughtta get some kind of signal. Unfortunately, it's mostly vertical,
would like to get some of it horizontal--assuming that would help.

Discussions off-line are pointing me to a good log-periodic antenna, on top
of a big-assed tree, rotatable.

If *that* don't work, I guess I'm just gonna have to start whistling old
tunes. :(

--

Mr. P.V.'d (formerly Droll Troll), Yonkers, NY

Stop Corruption in Congress & Send the Ultimate Message:
Absolutely Vote, but NOT for a Democrat or a Republican.
Ending Corruption in Congress is the *Single Best Way*
to Materially Improve Your Family's Life.
The Solution is so simple--and inexpensive!

entropic3.14decay at optonline2.718 dot net; remove pi and e to reply--ie,
all d'numbuhs

Andrew VK3BFA.

From -7965970270535065972
X-Google-Thread: 108ff0,e5e05fbb1755aa58
X-Google-Thread: 111d0a,e5e05fbb1755aa58
X-Google-Thread: 1118be,e5e05fbb1755aa58
X-Google-Thread: fc2a5,e5e05fbb1755aa58
X-Google-Thread: 114aac,e5e05fbb1755aa58
X-Google-Attributes:
gid108ff0,gid111d0a,gid1118be,gidfc2a5,gid114aac,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!d8bdb10f!not-for-mail
From: David <rickets@knac.com>
Newsgroups:
alt.music.makers.electronic,sci.electronics.basics,sci.electronics.components,rec.
radio.amateur.homebrew,rec.radio.shortwave
Subject: Re: small variable capacitors (measured in uF)? measuring capacitance?
Organization: None
Reply-To: rickets@knac.com
Message-ID: <22ec631llt7vakec9j100nmejdd64ga14s@4ax.com>
References: <1181082328.915396.165520@w5g2000hsg.googlegroups.com>
X-Newsreader: Forte Free Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 34
Date: Wed, 06 Jun 2007 03:30:23 GMT
NNTP-Posting-Host: 66.133.198.234
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1181100623 66.133.198.234 (Tue, 05 Jun
2007 20:30:23 PDT)

```
NNTP-Posting-Date: Tue, 05 Jun 2007 20:30:23 PDT
Xref: g2news1.google.com alt.music.makers.electronic:1437
sci.electronics.basics:54724 sci.electronics.components:15977
rec.radio.amateur.homebrew:13440 rec.radio.shortwave:113205

On Tue, 05 Jun 2007 22:25:28 -0000, Mad Scientist Jr
<usenet_daughter@yahoo.com> wrote:

>I would like to hook up a variable capacitor to some audio circuits I
>built for learning about synths and amps
>(schematics are here:
>http://www.geocities.com/usenet_daughter/tone_generators.htm )
>http://www.runoffgroove.com/littlegem.html
>http://www.runoffgroove.com/ruby.html
>http://makezine.com/09/crackerboxamp/
>)
>
>because in some of these the capacitors change the pitch, tone or
>other qualities.
>
>These circuits run off a 9V battery and use capacitors with ratings
>such as
>220 uF
>100uF,
>0.1 uF,
>0.01 uF
>0.047 uF
>so I would want variable caps in this range.
>Do these exist? Online all I am seeing is ones rated in pF.
>
>Also, assuming I find these, and get them working in the circuit, and
>find a desired setting for a capacitor, how do you measure the
>capacitance? I have a multimeter but have really only used it to
>measure ohms.
>
>Thanks...

\
http://www.stormwise.com/page3.htm


From 3352993254988757933
X-Google-Thread: fc2a5,f654651750b0f9f7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 06 Jun 2007 03:02:15 -0500
Message-ID: <18Pj$yI9gmZGFA$X@ifwtech.co.uk>
Date: Wed, 6 Jun 2007 08:54:37 +0100
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
```

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube reccomendation
References: <4665046a$0$4658$4c368faf@roadrunner.com>
 <46652a0a_4@mk-nntp-2.news.uk.tiscali.com>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<5mwkzTBRO5sETFKkGhyHHc+YXH>)
Lines: 26
NNTP-Posting-Host: 82.153.143.208
X-Trace: sv3-fMER3ZqpQlky5+pXovHdY6CpsAHLM7egH/
5m3FIQz5vtCguHgN2Ni2qObMXnM4LhBG3MvBQkWxCHAL0!oVbNXQBdPy5MWzhQ43YIRRJEo3fHPJ0/
celIcYqnVhPBjwEABvfSHqvb4DMzJ02kFjqj0xAPzlA=
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13441

Steve H wrote:
>
>"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
>news:4665046a$0$4658$4c368faf@roadrunner.com...
>>I have heard there are some tubes that use plate caps that are basically
>>the same as a 6L6.
>> The only readon I want to use something like this is because of the design
>> of the output transformer
>> I have. The B+ connection is on the bottom, underside of the chassis, and
>> the plate connection is on the top.
>>
>> Jimmie
>>
>>
> 807

Yes, because the 807 is literally the 6L6 in a different 'package'.

(The 5B254/M was made in Britain as a so-called "miniature 807", but it
must be extremely rare in the USA.)

--

73 from Ian GM3SEK 'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From 2311390981966552121
X-Google-Thread: fc2a5,f654651750b0f9f7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

```
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.brown.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Tube reccomendation
Date: Wed, 06 Jun 2007 01:28:22 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.06.06.08.28.22.944377@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <4665046a$0$4658$4c368faf@roadrunner.com> <46652a0a_4@mk-
nntp-2.news.uk.tiscali.com> <46654d28$0$8744$ed2619ec@ptn-nntp-reader02.plus.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 10
Organization: Octanews
NNTP-Posting-Date: 06 Jun 2007 03:28:25 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13442

On Tue, 05 Jun 2007 12:46:53 +0100, Peter Able wrote:

<snip>

> Or, if it needs to be smaller than an 807 and you can find it, a 5B/254M

I have a few of both types if anyone needs some :-)


--
Gregg



From -4756926114672463 40
X-Google-Thread: 108ff0,e5e05fbb1755aa58
X-Google-Thread: 111d0a,e5e05fbb1755aa58
X-Google-Thread: 1118be,e5e05fbb1755aa58
X-Google-Thread: fc2a5,e5e05fbb1755aa58
X-Google-Thread: 114aac,e5e05fbb1755aa58
X-Google-Attributes:
gid108ff0,gid111d0a,gid1118be,gidfc2a5,gid114aac,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-peer-
lilac.gradwell.net!nntp-peering.plus.net!ptn-nntp-feeder03.plus.net!ptn-nntp-
spool02.plus.net!ptn-nntp-reader02.plus.net!not-for-mail
From: "John A" <nospam@yahoo.co.uk>
Newsgroups:
alt.music.makers.electronic,sci.electronics.basics,sci.electronics.components,rec.
radio.amateur.homebrew,rec.radio.shortwave
References: <1181082328.915396.165520@w5g2000hsg.googlegroups.com>
Subject: Re: small variable capacitors (measured in uF)? measuring capacitance?
Date: Wed, 6 Jun 2007 11:18:15 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
```

```
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Lines: 27
Message-ID: <466689ea$0$8744$ed2619ec@ptn-nntp-reader02.plus.net>
Organization: Customer of PlusNet plc (http://www.plus.net)
NNTP-Posting-Host: 3498ec51.ptn-nntp-reader02.plus.net
X-Trace: DXC=dUgI=:h52?]=P]4P:ER:]Uigd3Y`7Rb;^37XnI;
[OUCTG`jPeGcW;i[ETXmaIffL8X4Tm7de1j46XIPIXn5Rb_nY
X-Complaints-To: abuse@plus.net
Xref: g2news1.google.com alt.music.makers.electronic:1439
sci.electronics.basics:54729 sci.electronics.components:15980
rec.radio.amateur.homebrew:13443 rec.radio.shortwave:113213


"Mad Scientist Jr" <usenet_daughter@yahoo.com> wrote in message
news:1181082328.915396.165520@w5g2000hsg.googlegroups.com...
> 220 uF
> 100uF,
> 0.1 uF,
> 0.01 uF
> 0.047 uF
> so I would want variable caps in this range.
> Do these exist? Online all I am seeing is ones rated in pF.
>
> Also, assuming I find these, and get them working in the circuit, and
> find a desired setting for a capacitor, how do you measure the
> capacitance? I have a multimeter but have really only used it to
> measure ohms.
>

You cannot buy variable capacitors with these values, but you could make up
or purchase an arrangement of switches and fixed capacitors quite cheaply
which a) would be the next best thing and b) would directly address your
"how do you measure the capacitance" question. Commercially they are called
Capacitance Substitution Boxes or Capacitance DecadeBoxes . They're not
infinitely variable, of course, but are finitely practical!

John A




From -6890821536586804l2
X-Google-Thread: 108ff0,e5e05fbb1755aa58
X-Google-Thread: 111d0a,e5e05fbb1755aa58
X-Google-Thread: 1118be,e5e05fbb1755aa58
X-Google-Thread: fc2a5,e5e05fbb1755aa58
X-Google-Thread: 114aac,e5e05fbb1755aa58
X-Google-Attributes:
gid108ff0,gid111d0a,gid1118be,gidfc2a5,gid114aac,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out04b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!news-
in-02.newsfeed.easynews.com!easynews.com!easynews!easynews-local!
```

fe09.news.easynews.com.POSTED!not-for-mail
Newsgroups:
alt.music.makers.electronic,sci.electronics.basics,sci.electronics.components,rec.radio.amateur.homebrew,rec.radio.shortwave
Subject: Re: small variable capacitors (measured in uF)? measuring capacitance?
From: Lostgallifreyan <no-one@nowhere.net>
References: <1181082328.915396.165520@w5g2000hsg.googlegroups.com>
<466689ea$0$8744$ed2619ec@ptn-nntp-reader02.plus.net>
Message-ID: <Xns9947856998805zoodlewurdle@140.99.99.130>
Followup-To: sci.electronics.components
User-Agent: Xnews/06.08.25
Lines: 18
X-Complaints-To: abuse@easynews.com
Organization: EasyNews, UseNet made Easy!
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Wed, 06 Jun 2007 12:06:55 GMT
Xref: g2news1.google.com alt.music.makers.electronic:1440
sci.electronics.basics:54730 sci.electronics.components:15981
rec.radio.amateur.homebrew:13444 rec.radio.shortwave:113214

"John A" <nospam@yahoo.co.uk> wrote in
news:466689ea$0$8744$ed2619ec@ptn-nntp-reader02.plus.net:

> You cannot buy variable capacitors with these values, but you could
> make up or purchase an arrangement of switches and fixed capacitors
> quite cheaply which a) would be the next best thing and b) would
> directly address your "how do you measure the capacitance" question.
> Commercially they are called Capacitance Substitution Boxes or
> Capacitance DecadeBoxes . They're not infinitely variable, of course,
> but are finitely practical!
>

Nice. I'm not sure that's what the OP wanted, (more likely a single
continuous control of something), but if this switched-cap box were built
to 1 nF resolution, for $40 extra or so, you can add a variable capacitor
shown on the page David linked to: http://www.stormwise.com/page3.htm

That way you can have any infinitely variable value, just not in one sweep.

From -8271639243970019120
X-Google-Thread: 108ff0,e5e05fbb1755aa58
X-Google-Thread: 111d0a,e5e05fbb1755aa58
X-Google-Thread: 1118be,e5e05fbb1755aa58
X-Google-Thread: fc2a5,e5e05fbb1755aa58
X-Google-Thread: 114aac,e5e05fbb1755aa58
X-Google-Attributes:
gid108ff0,gid111d0a,gid1118be,gidfc2a5,gid114aac,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed1.ip.tiscali.net!tiscali!transit1.news.tiscali.nl!transit.news.xs4all.nl!xs4all!newsfeeder.wxs.nl!

```
feed.xsnews.nl!border-2.ams.xsnews.nl!68.142.88.77.MISMATCH!hwmnpeer03.ams!
news.highwinds-media.com!feeder.news-service.com!nntp-peering.plus.net!ptn-nntp-
feeder01.plus.net!ptn-nntp-spool02.plus.net!ptn-nntp-reader02.plus.net!not-for-
mail
From: "John A" <nospam@yahoo.co.uk>
Newsgroups:
alt.music.makers.electronic,sci.electronics.basics,sci.electronics.components,rec.
radio.amateur.homebrew,rec.radio.shortwave
References: <1181082328.915396.165520@w5g2000hsg.googlegroups.com>
<466689ea$0$8744$ed2619ec@ptn-nntp-reader02.plus.net>
<Xns9947856998805zoodlewurdle@140.99.99.130>
Subject: Re: small variable capacitors (measured in uF)? measuring capacitance?
Date: Wed, 6 Jun 2007 14:51:22 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Lines: 41
Message-ID: <4666bbdc$1$8756$ed2619ec@ptn-nntp-reader02.plus.net>
Organization: Customer of PlusNet plc (http://www.plus.net)
NNTP-Posting-Host: 64e9120f.ptn-nntp-reader02.plus.net
X-Trace: DXC=IbK3b]5E3<9L:gT1hA;kC;igd3Y`7Rb;>37XnI;
[OUC4G`jPeGcW;i;me>PG>7@Y`>4Tm7de1j468O`9L]2hoFC3
X-Complaints-To: abuse@plus.net
Xref: g2news1.google.com alt.music.makers.electronic:1441
sci.electronics.basics:54734 sci.electronics.components:15983
rec.radio.amateur.homebrew:13445 rec.radio.shortwave:113215


"Lostgallifreyan" <no-one@nowhere.net> wrote in message
news:Xns9947856998805zoodlewurdle@140.99.99.130...
> "John A" <nospam@yahoo.co.uk> wrote in
> news:466689ea$0$8744$ed2619ec@ptn-nntp-reader02.plus.net:
>
> > You cannot buy variable capacitors with these values, but you could
> > make up or purchase an arrangement of switches and fixed capacitors
> > quite cheaply which a) would be the next best thing and b) would
> > directly address your "how do you measure the capacitance" question.
> > Commercially they are called Capacitance Substitution Boxes or
> > Capacitance DecadeBoxes . They're not infinitely variable, of course,
> > but are finitely practical!
> >
>
> Nice. I'm not sure that's what the OP wanted, (more likely a single
> continuous control of something), but if this switched-cap box were built
> to 1 nF resolution, for $40 extra or so, you can add a variable capacitor
> shown on the page David linked to: http://www.stormwise.com/page3.htm
>
> That way you can have any infinitely variable value, just not in one
sweep.
```

Well, I intentionally didn't suggest adding a variable as a) it would re-open the Pandora's Box of how to calibrate the thing, and, b) the combined tolerances of the fixed components would make a nonsense of such calibration anyway.

As the OP sounds as though he may want several capacitors to be simultaneously variable his best homebrew move may be to build up a number of simple, two or three decade BCD-style, successive approximation systems. Each will need 4 switches and capacitor combos (15 caps of one value) per decade - a nice little homebrew project.

John A   via rec.radio.amateur.homebrew

```
From -206233518407571625
X-Google-Thread: 108ff0,e5e05fbb1755aa58
X-Google-Thread: 111d0a,e5e05fbb1755aa58
X-Google-Thread: 1118be,e5e05fbb1755aa58
X-Google-Thread: fc2a5,e5e05fbb1755aa58
X-Google-Thread: 114aac,e5e05fbb1755aa58
X-Google-Attributes:
gid108ff0,gid111d0a,gid1118be,gidfc2a5,gid114aac,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-
online.de!newsfeed-0.progon.net!progon.net!news.mediascape.de!nntp-
peering.plus.net!ptn-nntp-feeder01.plus.net!ptn-nntp-spool01.plus.net!ptn-nntp-
reader02.plus.net!not-for-mail
From: "John A" <nospam@yahoo.co.uk>
Newsgroups:
alt.music.makers.electronic,sci.electronics.basics,sci.electronics.components,rec.
radio.amateur.homebrew,rec.radio.shortwave
References: <1181082328.915396.165520@w5g2000hsg.googlegroups.com>
<466689ea$0$8744$ed2619ec@ptn-nntp-reader02.plus.net>
<Xns9947856998805zoodlewurdle@140.99.99.130>
Subject: Re: small variable capacitors (measured in uF)? measuring capacitance?
Date: Wed, 6 Jun 2007 14:44:22 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Lines: 40
Message-ID: <4666bbdc$0$8756$ed2619ec@ptn-nntp-reader02.plus.net>
Organization: Customer of PlusNet plc (http://www.plus.net)
NNTP-Posting-Host: 64e9120f.ptn-nntp-reader02.plus.net
X-Trace: DXC=IbK3b]5E3<9L:gT1hA;kC;igd3Y`7Rb;>37XnI;
[OUC4G`jPeGcW;i;me>PG>7@Y`>4Tm7de1j468O`9L]2hoFC3
X-Complaints-To: abuse@plus.net
Xref: g2news1.google.com alt.music.makers.electronic:1442
```

sci.electronics.basics:54735 sci.electronics.components:15984
rec.radio.amateur.homebrew:13446 rec.radio.shortwave:113216

"Lostgallifreyan" <no-one@nowhere.net> wrote in message
news:Xns9947856998805zoodlewurdle@140.99.99.130...
> "John A" <nospam@yahoo.co.uk> wrote in
> news:466689ea$0$8744$ed2619ec@ptn-nntp-reader02.plus.net:
>
> > You cannot buy variable capacitors with these values, but you could
> > make up or purchase an arrangement of switches and fixed capacitors
> > quite cheaply which a) would be the next best thing and b) would
> > directly address your "how do you measure the capacitance" question.
> > Commercially they are called Capacitance Substitution Boxes or
> > Capacitance DecadeBoxes . They're not infinitely variable, of course,
> > but are finitely practical!
> >
>
> Nice. I'm not sure that's what the OP wanted, (more likely a single
> continuous control of something), but if this switched-cap box were built
> to 1 nF resolution, for $40 extra or so, you can add a variable capacitor
> shown on the page David linked to: http://www.stormwise.com/page3.htm
>
> That way you can have any infinitely variable value, just not in one
sweep.

Well, I intentionally didn't suggest adding a variable as a) it would re-open the Pandora's Box of how to calibrate the thing, and, b) the combined tolerances of the fixed components would make a nonsense of such calibration anyway.

As the OP sounds as though he may want several capacitors to be simultaneously variable his best homebrew move may be to build up a number of simple, two or three decade BCD-style, successive approximation systems. Each will need 4 switches and capacitor combos (15 caps of one value) per decade - a nice little homebrew project.

John A via rec.radio.amateur.homebrew

From -3792718536482201294
X-Google-Thread: 108ff0,e5e05fbb1755aa58
X-Google-Thread: 111d0a,e5e05fbb1755aa58
X-Google-Thread: 1118be,e5e05fbb1755aa58
X-Google-Thread: fc2a5,e5e05fbb1755aa58
X-Google-Thread: 114aac,e5e05fbb1755aa58
X-Google-Attributes:
gid108ff0,gid111d0a,gid1118be,gidfc2a5,gid114aac,public,usenet

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out01a.usenetserver.com!news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-in-02.newsfeed.easynews.com!easynews.com!easynews!easynews-local!fe12.news.easynews.com.POSTED!not-for-mail
Newsgroups:
alt.music.makers.electronic,sci.electronics.basics,sci.electronics.components,rec.radio.amateur.homebrew,rec.radio.shortwave
Subject: Re: small variable capacitors (measured in uF)? measuring capacitance?
From: Lostgallifreyan <no-one@nowhere.net>
References: <1181082328.915396.165520@w5g2000hsg.googlegroups.com>
<466689ea$0$8744$ed2619ec@ptn-nntp-reader02.plus.net>
<Xns9947856998805zoodlewurdle@140.99.99.130> <4666bbdc$1$8756$ed2619ec@ptn-nntp-reader02.plus.net>
Message-ID: <Xns99479CC17A217zoodlewurdle@140.99.99.130>
Followup-To: sci.electronics.components
User-Agent: Xnews/06.08.25
Lines: 20
X-Complaints-To: abuse@easynews.com
Organization: EasyNews, UseNet made Easy!
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we will be unable to process your complaint properly.
Date: Wed, 06 Jun 2007 14:24:36 GMT
Xref: g2news1.google.com alt.music.makers.electronic:1443
sci.electronics.basics:54737 sci.electronics.components:15985
rec.radio.amateur.homebrew:13447 rec.radio.shortwave:113218

"John A" <nospam@yahoo.co.uk> wrote in news:4666bbdc$1$8756$ed2619ec@ptn-nntp-reader02.plus.net:

> Well, I intentionally didn't suggest adding a variable as a) it would
> re-open the Pandora's Box of how to calibrate the thing, and, b) the
> combined tolerances of the fixed components would make a nonsense of such
> calibration anyway.
>

Initially, I didn't assume the OP wanted a large variable capacitor at all, but was mistakenly trying to match fixed sizes with variable sizes without considering why such things are not common practise. Calibration aside, the variable I suggested adding IS a viable idea, assuming your switched-cap box is valid. After all, if you CAN get any value, then you set it as you need. If it's tuning frequency, you measure the frequency.

But as I said WAy early in the thread, first reply, if you really want a sweep of possible timing values, just use a fixed cap and a variable pot, as standard. The OP was talking about synthesizers, after all, he mentioned them explicitly.

From 8830833497899191952
X-Google-Thread: 108ff0,e5e05fbb1755aa58
X-Google-Thread: 111d0a,e5e05fbb1755aa58
X-Google-Thread: 1118be,e5e05fbb1755aa58

```
X-Google-Thread: fc2a5,e5e05fbb1755aa58
X-Google-Thread: 114aac,e5e05fbb1755aa58
X-Google-Attributes:
gid108ff0,gid111d0a,gid1118be,gidfc2a5,gid114aac,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news-in-01.newsfeed.easynews.com!easynews.com!easynews!easynews-
local!fe12.news.easynews.com.POSTED!not-for-mail
Newsgroups:
alt.music.makers.electronic,sci.electronics.basics,sci.electronics.components,rec.
radio.amateur.homebrew,rec.radio.shortwave
Subject: Re: small variable capacitors (measured in uF)? measuring capacitance?
From: Lostgallifreyan <no-one@nowhere.net>
References: <1181082328.915396.165520@w5g2000hsg.googlegroups.com>
<466689ea$0$8744$ed2619ec@ptn-nntp-reader02.plus.net>
<Xns9947856998805zoodlewurdle@140.99.99.130> <4666bbdc$1$8756$ed2619ec@ptn-nntp-
reader02.plus.net>
Message-ID: <Xns99479D8DB7DD8zoodlewurdle@140.99.99.130>
Followup-To: sci.electronics.components
User-Agent: Xnews/06.08.25
Lines: 13
X-Complaints-To: abuse@easynews.com
Organization: EasyNews, UseNet made Easy!
X-Complaints-Info: Please be sure to forward a copy of ALL headers otherwise we
will be unable to process your complaint properly.
Date: Wed, 06 Jun 2007 14:29:18 GMT
Xref: g2news1.google.com alt.music.makers.electronic:1444
sci.electronics.basics:54738 sci.electronics.components:15986
rec.radio.amateur.homebrew:13448 rec.radio.shortwave:113219

"John A" <nospam@yahoo.co.uk> wrote in news:4666bbdc$1$8756$ed2619ec@ptn-
nntp-reader02.plus.net:

> Well, I intentionally didn't suggest adding a variable as a) it would
> re-open the Pandora's Box of how to calibrate the thing, and, b) the
> combined tolerances of the fixed components would make a nonsense of such
> calibration anyway.
>

Another thing: That variable cap on the page David (and I) linked to, is
more than 1 nF. So long as the fixed caps had a tolerance tight enough, it
should cover (1.398 nF allows for greater than 20% tolerance on nominal 1
nF increments). Not that any of this matters, in practise.


From 1628670798818559318
X-Google-Thread: fc2a5,ac652d6c57376e0
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!p77g2000hsh.googlegroups.com!not-for-
mail
From:  Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
```

```
Subject: Re: Poor fm,am radio reception--solutions?
Date: Wed, 06 Jun 2007 08:46:39 -0700
Organization: http://groups.google.com
Lines: 38
Message-ID: <1181144799.476007.236090@p77g2000hsh.googlegroups.com>
References: <hBi9i.34$1T2.17@newsfe12.lga>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1181144799 14729 127.0.0.1 (6 Jun 2007 15:46:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 6 Jun 2007 15:46:39 +0000 (UTC)
In-Reply-To: <hBi9i.34$1T2.17@newsfe12.lga>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p77g2000hsh.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com rec.radio.amateur.homebrew:13449

On Jun 5, 3:13 pm, "Proctologically Violated=A9=AE"
<entropic3.14de...@optonline2.718.net> wrote:
> I posted some time ago regarding the tuning circuitry of car radios vs. h=
ome
> radios/stereos.
> I had long noticed much superior tuning in car radios over my home radios.
> Several apparently knowledgeable people on a few radio ngs confirmed this,
> even explained it, altho this went over my head.

Very simple: there isn't much market for high-quality home radio
receivers for a few decades now. With products not being sold by
quality but by how many features they have (look at a DVD player
remote control: more than 100 buttons!!!!) this is not surprising.

> So based on this assumption of tuning superiority, I went to *great lengt=
hs*
> to remove a very nice 6-speaker stereo from a car I'm junking (1990 Mazda
> 929S--nice car, too, seen better days), to hook up in my shop, so I can
> listen to some decent radio, instead of brain-killing Reality TV.
>
> *Finally* accomplished said task, and, big big bummer, the reception of t=
he
> car radio in my shop/garage is even worse than my home radios/stereos!
> Yet, this *same radio*, when I used to park the car this very same garage,
> had great reception.

Car radios antenna systems are matched to the radios. Take a car
antenna, put it on a big piece of sheet metal (aka "virtual car"), and
cable it up to the radio with a correct length of cable (cable
capacitance comes into the matching at least for AM) and you'll do
fine. With some matching circuitry you could match up to the dipoles
```

etc. you want to build.

If your garage/shop has a metal roof it will be a fine "virtual car" ground.

Tim.

```
From 9060020626645838006
X-Google-Thread: f70d1,124e5f706f8bf1f7,start
X-Google-Thread: 107cee,124e5f706f8bf1f7,start
X-Google-Thread: fc2a5,124e5f706f8bf1f7,start
X-Google-Thread: 1118be,124e5f706f8bf1f7,start
X-Google-Thread: 10d137,124e5f706f8bf1f7,start
X-Google-Attributes: gidf70d1,gid107cee,gidfc2a5,gid1118be,gid10d137,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q66g2000hsg.googlegroups.com!not-for-
mail
From:  Mad Scientist Jr <usenet_daughter@yahoo.com>
Newsgroups:
alt.comp.hardware.homebuilt,sci.electronics.misc,rec.radio.amateur.homebrew,sci.el
ectronics.components,alt.engineering.electrical
Subject: daisy chain jumper wire?
Date: Wed, 06 Jun 2007 16:20:13 -0000
Organization: http://groups.google.com
Lines: 90
Message-ID: <1181146813.696306.315100@q66g2000hsg.googlegroups.com>
NNTP-Posting-Host: 12.150.126.82
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1181146813 10623 127.0.0.1 (6 Jun 2007 16:20:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 6 Jun 2007 16:20:13 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.4)
Gecko/20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q66g2000hsg.googlegroups.com; posting-host=12.150.126.82;
   posting-account=hqcX8A0AAABKXTlWUU3mGm_QMZM61ECd
Xref: g2news1.google.com alt.comp.hardware.homebuilt:16875
sci.electronics.misc:15916 rec.radio.amateur.homebrew:13450
sci.electronics.components:15988 alt.engineering.electrical:32241
```

Can anyone name a supplier that sells this? (see below for a description)
Thanks...

Newsgroups: alt.comp.hardware.homebuilt, sci.electronics.misc, rec.radio.amateur.homebrew
From: Rick Frazier <r...@rickfrazier.com>
Date: Wed, 30 May 2007 17:34:56 -1000

Local: Wed, May 30 2007 11:34 pm
Subject: Re: motherboard LED connectors and posts?

I think you might be looking for something that was called "daisy
chain
jumper wire" way back in my wire-wrap days. It came as a spool of
flexible, stranded insulated wire about 24 guage or so, with an
insulated single pin socket every 5 inches or so. You just counted
off
the number of jumpers you wanted to interconnect, and snip them off of
the roll. The sockets fit over standard .025" square posts quite
nicely
and allowed testing minor modifications without wrapping on new wires.

They had a multitude of uses. I still have some leds and other things
with single 5" wires attached to each leg (each with it's own socket
at
the end).

I haven't even looked for this stuff for years, and know I hava a half
roll tucked away in a box somewhere. If I could only find it I'd at
least have a part number and manufacturer to provide. I'll see if I
can
dig it out sometime in the next couple of days...

Good Luck
--Rick

Newsgroups: alt.comp.hardware.homebuilt, sci.electronics.misc,
rec.radio.amateur.homebrew
From: Mad Scientist Jr <usenet_daugh...@yahoo.com>
Date: 30 May 2007 14:33:30 -0700
Local: Wed, May 30 2007 5:33 pm
Subject: Re: motherboard LED connectors and posts?

Thanks to everyone for your replies.

>From: Terran Melconian <te_rem_ra_ove_an_fors...@consistent.org>
>There are literally hundreds to choose from, but here are a couple
>example part numbers I pulled out of the Mouser catalog to point you in
>the right direction:
>   Header: Mouser 517-2312-6111tg, 3m 2312-6111tg
>   Socket: Mouser 517-974-01-02, 3m 929974-01-02 (board mount)
>the sockets also come for crimp pin or IDC connections.

That should be a big help - I just needed some keywords: header,
socket, board mount, IDC.

>From: kony <s...@spam.com>
>Male pin headers and female socket connectors with 0.1" pin

```
>spacing.  Also socket contacts (inserts) are often sold
>separate from the socket itself.

This helps...

>What exactly are you looking for?  Straight plastic sockets
>with 0.1" pin spacing but do they have to be the very thin
>(black in your links) type such that on a row of pins in a
>pin header, you could plug in two right next to each other,
>OR could the plastic connector body be larger like those
>used on fans?   The point is that if looking for an
>especially low price, one option is surplus electronics
>'sites which may have something that would work (or may not)
>depending on the requirements beyond the basic # of pins,
>spacing and pin size.

This would be a way to make certain components (such as pots &
trimmers, 1/4" phono jacks, switches, or other sub-circuits) "plug and
play" for various prototypes + experiments. The motherboard size
headers are small enough where the leads match the components I'm
using and the pins on a motherboard that LEDs plug into are just the
right size to plug into a solderless breadboard, but are more durable
than the regular breadboard jumper wires.

>You might check the following surplus sites (and ebay).

Thanks again




From 3860411454791508O1
X-Google-Thread: fc2a5,f654651750b0f9f7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <4665046a$0$4658$4c368faf@roadrunner.com>
Subject: Re: Tube reccomendation
Date: Wed, 6 Jun 2007 13:54:38 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Lines: 20
Message-ID: <4666f4d3$0$16735$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13451
```

"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
news:4665046a$0$4658$4c368faf@roadrunner.com...
>I have heard there are some tubes that use plate caps that are basically
>the same as a 6L6.
> The only readon I want to use something like this is because of the design
> of the output transformer
> I have. The B+ connection is on the bottom, underside of the chassis, and
> the plate connection is on the top.
>
> Jimmie
>
>

Thanks all, an 807 would be great. They are tall enough to be almost even
with the top of the transformer.

Jimmie

From -8337034326595246577
X-Google-Thread: fc2a5,ac652d6c57376e0
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!o11g2000prd.googlegroups.com!not-for-mail
From: Arv <arvid.evans@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Poor fm,am radio reception--solutions?
Date: Wed, 06 Jun 2007 11:11:50 -0700
Organization: http://groups.google.com
Lines: 53
Message-ID: <1181153510.563232.171000@o11g2000prd.googlegroups.com>
References: <hBi9i.34$1T2.17@newsfe12.lga>
   <1181144799.476007.236090@p77g2000hsh.googlegroups.com>
NNTP-Posting-Host: 71.36.18.229
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1181153511 29227 127.0.0.1 (6 Jun 2007 18:11:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 6 Jun 2007 18:11:51 +0000 (UTC)
In-Reply-To: <1181144799.476007.236090@p77g2000hsh.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.4) Gecko/20061201 Firefox/2.0.0.4 (Ubuntu-feisty),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o11g2000prd.googlegroups.com; posting-host=71.36.18.229;
   posting-account=j8G-ZQ0AAAArGSmSv5U2nhz6Vo5TeLQN
Xref: g2news1.google.com rec.radio.amateur.homebrew:13452

On 6 Jun, 09:46, Tim Shoppa <sho...@trailing-edge.com> wrote:
> On Jun 5, 3:13 pm, "Proctologically Violated=A9=AE"
>
> <entropic3.14de...@optonline2.718.net> wrote:
> > I posted some time ago regarding the tuning circuitry of car radios vs.=
 home
> > radios/stereos.
> > I had long noticed much superior tuning in car radios over my home radi=
os.
> > Several apparently knowledgeable people on a few radio ngs confirmed th=
is,
> > even explained it, altho this went over my head.
>
> Very simple: there isn't much market for high-quality home radio
> receivers for a few decades now. With products not being sold by
> quality but by how many features they have (look at a DVD player
> remote control: more than 100 buttons!!!!) this is not surprising.
>
> > So based on this assumption of tuning superiority, I went to *great len=
gths*
> > to remove a very nice 6-speaker stereo from a car I'm junking (1990 Maz=
da
> > 929S--nice car, too, seen better days), to hook up in my shop, so I can
> > listen to some decent radio, instead of brain-killing Reality TV.
>
> > *Finally* accomplished said task, and, big big bummer, the reception of=
 the
> > car radio in my shop/garage is even worse than my home radios/stereos!
> > Yet, this *same radio*, when I used to park the car this very same gara=
ge,
> > had great reception.
>
> Car radios antenna systems are matched to the radios. Take a car
> antenna, put it on a big piece of sheet metal (aka "virtual car"), and
> cable it up to the radio with a correct length of cable (cable
> capacitance comes into the matching at least for AM) and you'll do
> fine. With some matching circuitry you could match up to the dipoles
> etc. you want to build.
>
> If your garage/shop has a metal roof it will be a fine "virtual car"
> ground.
>
> Tim.

And...while building that "virtual car" for the antenna ground-plane,
don't forget to make a car body sized box with upholstery type sound
absorption and place your chair in the center of this virtual speaker
box. You may be surprised at how good that simple car radio will
sound with you inside the speaker box.

Arv
_=2E_

```
From -7744279868541875446
X-Google-Thread: 1118be,fb0ebc236414afb3,start
X-Google-Thread: f70d1,fb0ebc236414afb3,start
X-Google-Thread: 107cee,fb0ebc236414afb3,start
X-Google-Thread: fc2a5,fb0ebc236414afb3,start
X-Google-Thread: 10d137,fb0ebc236414afb3,start
X-Google-Attributes: gid1118be,gidf70d1,gid107cee,gidfc2a5,gid10d137,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q19g2000prn.googlegroups.com!not-for-
mail
From:  Mad Scientist Jr <usenet_daughter@yahoo.com>
Newsgroups:
sci.electronics.components,alt.comp.hardware.homebuilt,sci.electronics.misc,rec.ra
dio.amateur.homebrew,alt.engineering.electrical
Subject: quick-connect jumper wires / plugs ("daisy chain jumper wire" or
similar) ?
Date: Wed, 06 Jun 2007 20:19:43 -0000
Organization: http://groups.google.com
Lines: 169
Message-ID: <1181161183.427062.209780@q19g2000prn.googlegroups.com>
NNTP-Posting-Host: 12.150.126.82
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1181161192 27814 127.0.0.1 (6 Jun 2007 20:19:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 6 Jun 2007 20:19:52 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.4)
Gecko/20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q19g2000prn.googlegroups.com; posting-host=12.150.126.82;
   posting-account=hqcX8A0AAABKXTlWUU3mGm_QMZM61ECd
Xref: g2news1.google.com sci.electronics.components:15995
alt.comp.hardware.homebuilt:16879 sci.electronics.misc:15920
rec.radio.amateur.homebrew:13453 alt.engineering.electrical:32248
```

I am looking for a way to make certain components (such as pots & trimmers, 1/4" phono jacks, switches, or other sub-circuits) "plug and play" for various prototypes + experiments. Similar to the breadboard concept but more permanent. Headers like those found on computer motherboards for connecting power LEDs are small enough where the leads match the components I'm using and the pins on the motherboard are just the right size to plug into a solderless breadboard, but are more durable than breadboard jumper wires.

Rick suggested "daisy chain jumper wire" (see below for a description) and I did some searching on various sites, but no luck. Can anyone say what else this might be listed under or where it might be found?

Thanks...

Newsgroups: alt.comp.hardware.homebuilt, sci.electronics.misc,
rec.radio.amateur.homebrew
From: Rick Frazier <r...@rickfrazier.com>
Date: Wed, 30 May 2007 17:34:56 -1000
Local: Wed, May 30 2007 11:34 pm
Subject: Re: motherboard LED connectors and posts?

I think you might be looking for something that was called "daisy
chain
jumper wire" way back in my wire-wrap days. It came as a spool of
flexible, stranded insulated wire about 24 guage or so, with an
insulated single pin socket every 5 inches or so. You just counted
off
the number of jumpers you wanted to interconnect, and snip them off of
the roll. The sockets fit over standard .025" square posts quite
nicely
and allowed testing minor modifications without wrapping on new wires.

They had a multitude of uses. I still have some leds and other things
with single 5" wires attached to each leg (each with it's own socket
at
the end).

I haven't even looked for this stuff for years, and know I hava a half
roll tucked away in a box somewhere. If I could only find it I'd at
least have a part number and manufacturer to provide. I'll see if I
can
dig it out sometime in the next couple of days...

Good Luck
--Rick

Newsgroups: alt.comp.hardware.homebuilt, sci.electronics.misc,
rec.radio.amateur.homebrew
From: Mad Scientist Jr <usenet_daugh...@yahoo.com>
Date: 30 May 2007 14:33:30 -0700
Local: Wed, May 30 2007 5:33 pm
Subject: Re: motherboard LED connectors and posts?

Thanks to everyone for your replies.

>From: Terran Melconian <te_rem_ra_ove_an_fors...@consistent.org>
>There are literally hundreds to choose from, but here are a couple
>example part numbers I pulled out of the Mouser catalog to point you in
>the right direction:
>   Header: Mouser 517-2312-6111tg, 3m 2312-6111tg
>   Socket: Mouser 517-974-01-02, 3m 929974-01-02 (board mount)
>the sockets also come for crimp pin or IDC connections.

That should be a big help - I just needed some keywords: header,
socket, board mount, IDC.

>From: kony <s...@spam.com>

>Male pin headers and female socket connectors with 0.1" pin
>spacing. Also socket contacts (inserts) are often sold
>separate from the socket itself.

This helps...

>What exactly are you looking for? Straight plastic sockets
>with 0.1" pin spacing but do they have to be the very thin
>(black in your links) type such that on a row of pins in a
>pin header, you could plug in two right next to each other,
>OR could the plastic connector body be larger like those
>used on fans?   The point is that if looking for an
>especially low price, one option is surplus electronics
>'sites which may have something that would work (or may not)
>depending on the requirements beyond the basic # of pins,
>spacing and pin size.

This would be a way to make certain components (such as pots &
trimmers, 1/4" phono jacks, switches, or other sub-circuits) "plug and
play" for various prototypes + experiments. The motherboard size
headers are small enough where the leads match the components I'm
using and the pins on a motherboard that LEDs plug into are just the
right size to plug into a solderless breadboard, but are more durable
than the regular breadboard jumper wires.

>You might check the following surplus sites (and ebay).

Thanks again

Newsgroups: alt.comp.hardware.homebuilt, sci.electronics.misc,
rec.radio.amateur.homebrew
From: Terran Melconian <te_rem_ra_ove_an_fors...@consistent.org>
Date: Wed, 30 May 2007 15:21:44 -0500
Local: Wed, May 30 2007 4:21 pm
Subject: Re: motherboard LED connectors and posts?

> I tried searching for LED connectors and get LEDs. I want the
> connectors and posts, not replacement LEDs for a motherboard.

Ah, yes, the connectors are general-purpose, and have nothing to do
with
LEDs specifically, although this is the context in which you happen to
have encountered them; therefore searching on the term "LED" is
leading
you astray.

There are literally hundreds to choose from, but here are a couple
example part numbers I pulled out of the Mouser catalog to point you
in
the right direction:

Header: Mouser 517-2312-6111tg, 3m 2312-6111tg
Socket: Mouser 517-974-01-02, 3m 929974-01-02 (board mount)

the sockets also come for crimp pin or IDC connections. I think once you stop searching for "LED" you'll be able to find things easily.

Newsgroups: alt.comp.hardware.homebuilt, sci.electronics.misc,
rec.radio.amateur.homebrew
From: kony <s...@spam.com>
Date: Wed, 30 May 2007 16:42:02 -0400
Local: Wed, May 30 2007 4:42 pm
Subject: Re: motherboard LED connectors and posts?

Male pin headers and female socket connectors with 0.1" pin spacing. Also socket contacts (inserts) are often sold separate from the socket itself.

They can be very expensive from electronics supply houses, ridiculously so for the female connector and insert.

http://www.digikey.com/scripts/DkSearch/dksus.dll?PName?Name=609-2342...
http://www.digikey.com/scripts/DkSearch/dksus.dll?PName?Name=609-2301...

What exactly are you looking for? Straight plastic sockets with 0.1" pin spacing but do they have to be the very thin (black in your links) type such that on a row of pins in a pin header, you could plug in two right next to each other, OR could the plastic connector body be larger like those used on fans? The point is that if looking for an especially low price, one option is surplus electronics 'sites which may have something that would work (or may not) depending on the requirements beyond the basic # of pins, spacing and pin size.

You might find them called something else, generically grouped as just "connectors" or slightly more like "pin connectors" at a store/site that doesn't deal with as many connectors and just doesn't follow standard naming practices.

You might check the following surplus sites (and ebay).
http://sales.goldmine-elec.com/
http://www.bgmicro.com/
http://www.allelectronics.com/
http://www.mpja.com/
http://www.excesssolutions.com/

From 2261991456624715407
X-Google-Thread: 1118be,fb0ebc236414afb3
X-Google-Thread: f70d1,fb0ebc236414afb3

```
X-Google-Thread: 107cee,fb0ebc236414afb3
X-Google-Thread: fc2a5,fb0ebc236414afb3
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X-Google-Attributes: gid1118be,gidf70d1,gid107cee,gidfc2a5,gid10d137,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder1-2.proxad.net!proxad.net!
feeder1-1.proxad.net!club-internet.fr!feedme-small.clubint.net!
newsfeed.freenet.de!85.12.40.130.MISMATCH!xlned.com!feeder1.xlned.com!
news.astraweb.com!border1.a.newsrouter.astraweb.com!hwmnpeer01.ams!news-
out.ntli.net!newsrout1-gui.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-
win.ntli.net!newsfe4-win.ntli.net.POSTED!53ab2750!not-for-mail
From: "meerkat" <man@cov.com>
Newsgroups:
sci.electronics.components,alt.comp.hardware.homebuilt,sci.electronics.misc,rec.ra
dio.amateur.homebrew,alt.engineering.electrical
References: <1181161183.427062.209780@q19g2000prn.googlegroups.com>
Subject: Re: quick-connect jumper wires / plugs ("daisy chain jumper wire" or
similar) ?
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
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Message-ID: <5QE9i.5359$sM1.4910@newsfe4-win.ntli.net>
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X-Complaints-To: http://www.virginmedia.com/netreport
X-Trace: newsfe4-win.ntli.net 1181161857 86.20.67.131 (Wed, 06 Jun 2007 21:30:57
BST)
NNTP-Posting-Date: Wed, 06 Jun 2007 21:30:57 BST
Organization: ntl Cablemodem News Service
Xref: g2news1.google.com sci.electronics.components:15996
alt.comp.hardware.homebuilt:16881 sci.electronics.misc:15921
rec.radio.amateur.homebrew:13454 alt.engineering.electrical:32249
```

"Mad Scientist Jr" <usenet_daughter@yahoo.com> wrote in message news:1181161183.427062.209780@q19g2000prn.googlegroups.com...

>I am looking for a way to make certain components (such as pots & trimmers, 1/4" phono jacks, switches, or other sub-circuits) "plug and play" for various prototypes + experiments. Similar to the breadboard concept but more permanent. Headers like those found on computer motherboards for connecting power LEDs are small enough where the leads match the components I'm using and the pins on the motherboard are just the right size to plug into a solderless breadboard, but are more durable than breadboard jumper wires.
>

snipped for speed.

>

Wire wrap at RadioShack ?

http://www.me.umn.edu/courses/me2011/robot/wrap/wrap.html

or in Britain,

Maplins

```
From 5129243514715829601
X-Google-Thread: 111d0a,e5e05fbb1755aa58
X-Google-Thread: fc2a5,e5e05fbb1755aa58
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X-Google-Language: ENGLISH,ASCII-7-bit
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news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe04.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: sci.electronics.basics,rec.radio.amateur.homebrew,rec.radio.shortwave
References: <1181082328.915396.165520@w5g2000hsg.googlegroups.com>
Subject: Re: small variable capacitors (measured in uF)? measuring capacitance?
Lines: 62
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
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NNTP-Posting-Date: Wed, 06 Jun 2007 14:43:04 MST
Date: Wed, 6 Jun 2007 17:42:58 -0400
Xref: g2news1.google.com sci.electronics.basics:54743
rec.radio.amateur.homebrew:13455 rec.radio.shortwave:113232
```

"Mad Scientist Jr" <usenet_daughter@yahoo.com> wrote in message
news:1181082328.915396.165520@w5g2000hsg.googlegroups.com...

>I would like to hook up a variable capacitor to some audio circuits I
> built for learning about synths and amps
> (schematics are here:
> http://www.geocities.com/usenet_daughter/tone_generators.htm)
> http://www.runoffgroove.com/littlegem.html
> http://www.runoffgroove.com/ruby.html
> http://makezine.com/09/crackerboxamp/
>)
>
> because in some of these the capacitors change the pitch, tone or
> other qualities.
>
> These circuits run off a 9V battery and use capacitors with ratings
> such as
> 220 uF
> 100uF,

> 0.1 uF,
> 0.01 uF
> 0.047 uF
> so I would want variable caps in this range.
> Do these exist? Online all I am seeing is ones rated in pF.
>
> Also, assuming I find these, and get them working in the circuit, and find a desired setting for a capacitor, how do you measure the capacitance? I have a multimeter but have really only used it to measure ohms.
>
> Thanks...

As others have mentioned, these values are not widely available in variables partly because they are unweildy, and partly because they are rarely needed.

Take a look at your circuits. Many of the capacitors are "uninteresting". For example, if you look at your "little gem" amplifier, the 100u is simply filtering the supply (looks like a little overkill), the .01 appears to be mostly DC blocking, although it is small enough it might have an efffect on bass response. Ditto for the 220. The only one that looks like it might be interesting to experiment with is the 0.047. The other circuits are similar. Capacitors have all sorts of functions in various circuits, and for many of those functions, playing with the values isn't very satisfying.

Before you go building these things and playing with them, I would suggest modeling them in some SPICE flavor or another. This would allow you to experiment with the frequency response without actually building the circuit. Once you have seen some interesting SPICE responses, *then* go buy some capacitors.

As far as measuring capacitance, you can buy meters, more commonly LC meters, and many multimeters include them. You can also make an LC oscillator, measure its frequency, then put the unknown C in parallel with the C in the oscillator, and measure the frequency again. You can then calculate the unknown C. Another way is to put the unknown C in series with a known resistor, put some RF across it, and measure the voltage drops with an RF probe. Again, a little math reveals the unknown C.

..

From 843479242809974819
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X-Google-Thread: f70d1,fb0ebc236414afb3
X-Google-Thread: 107cee,fb0ebc236414afb3
X-Google-Thread: fc2a5,fb0ebc236414afb3
X-Google-Thread: 10d137,fb0ebc236414afb3
X-Google-Attributes: gid1118be,gidf70d1,gid107cee,gidfc2a5,gid10d137,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit

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Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
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newspeer.monmouth.com!newsgate.cistron.nl!xs4all!feeder.news-service.com!
feeder1.cambrium.nl!feed.tweaknews.nl!nntp-peering.plus.net!ptn-nntp-
feeder01.plus.net!ptn-nntp-spool02.plus.net!ptn-nntp-reader02.plus.net!not-for-
mail
From: "CWatters" <colin.watters@turnersNOSPAMoak.plus.com>
Newsgroups:
sci.electronics.components,alt.comp.hardware.homebuilt,sci.electronics.misc,rec.ra
dio.amateur.homebrew,alt.engineering.electrical
References: <1181161183.427062.209780@q19g2000prn.googlegroups.com>
<5QE9i.5359$sM1.4910@newsfe4-win.ntli.net>
Subject: Re: quick-connect jumper wires / plugs ("daisy chain jumper wire" or
similar) ?
Date: Wed, 6 Jun 2007 23:19:41 +0100
X-Priority: 3
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Lines: 15
Message-ID: <466732fb$0$8742$ed2619ec@ptn-nntp-reader02.plus.net>
Organization: Customer of PlusNet plc (http://www.plus.net)
NNTP-Posting-Host: 7f4e3b9e.ptn-nntp-reader02.plus.net
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X-Complaints-To: abuse@plus.net
Xref: g2news1.google.com sci.electronics.components:15997
alt.comp.hardware.homebuilt:16885 sci.electronics.misc:15923
rec.radio.amateur.homebrew:13456 alt.engineering.electrical:32252


"meerkat" <man@cov.com> wrote in message
news:5QE9i.5359$sM1.4910@newsfe4-win.ntli.net...
 > Wire wrap at RadioShack ?
> http://www.me.umn.edu/courses/me2011/robot/wrap/wrap.html
> or in Britain,
> Maplins
>

From his earlier question I think the sockets are important. I think he's
really after a 2 pin socket (0.1" pitch) ready crimped onto leads. Perhaps
double ended to connect a panel mounted LED to a 2P 0.1" pitch PCB mounted
header? Not sure why he doesn't make them?





From -5578789851657561468
X-Google-Thread: 1118be,fb0ebc236414afb3
X-Google-Thread: f70d1,fb0ebc236414afb3
X-Google-Thread: 107cee,fb0ebc236414afb3
X-Google-Thread: fc2a5,fb0ebc236414afb3
X-Google-Thread: 10d137,fb0ebc236414afb3
```

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X-Google-Attributes: gid1118be,gidf70d1,gid107cee,gidfc2a5,gid10d137,public,usenet
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Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 06 Jun 2007 19:47:06 -0500
Date: Thu, 07 Jun 2007 01:51:10 +0100
From: Ian Malcolm <abuse@freeserveNOSPAM.net.invalid>
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.12) Gecko/20050915
MultiZilla/1.7.9.0a
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
sci.electronics.components,alt.comp.hardware.homebuilt,sci.electronics.misc,rec.ra
dio.amateur.homebrew,alt.engineering.electrical
Subject: Re: quick-connect jumper wires / plugs ("daisy chain jumper wire"
 or similar) ?
References: <1181161183.427062.209780@q19g2000prn.googlegroups.com>
<5QE9i.5359$sM1.4910@newsfe4-win.ntli.net> <466732fb$0$8742$ed2619ec@ptn-nntp-
reader02.plus.net>
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YM9eRqC4/Scqrs/QsI6KuT/lhw==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com sci.electronics.components:15999
alt.comp.hardware.homebuilt:16891 sci.electronics.misc:15924
rec.radio.amateur.homebrew:13457 alt.engineering.electrical:32253

CWatters wrote:

> "meerkat" <man@cov.com> wrote in message
> news:5QE9i.5359$sM1.4910@newsfe4-win.ntli.net...
>  > Wire wrap at RadioShack ?
>
>>http://www.me.umn.edu/courses/me2011/robot/wrap/wrap.html
>>or in Britain,
>>Maplins
>>
>
>
> From his earlier question I think the sockets are important. I think he's
```

> really after a 2 pin socket (0.1" pitch) ready crimped onto leads. Perhaps
> double ended to connect a panel mounted LED to a 2P 0.1" pitch PCB mounted
> header? Not sure why he doesn't make them?
>
>

My preference was always a strip of 0.1" pitch turned pin socket pins with ribbon cable soldered into the socket side. A little hot glue or electrical grade silicone RTV sealent at the breadboard or PCB end and judicious use of heatshrink at the component end provides strain releaf if required.

Plug streight in to breadboards *WITHOUT* ruining the contacts, but sufficently durable that the mods I did to my Sinclar QL nearly 20 years ago using this connection methor are still totally reliable in operation.

--
Ian Malcolm.   London, ENGLAND. (NEWSGROUP REPLY PREFERRED)
ianm[at]the[dash]malcolms[dot]freeserve[dot]co[dot]uk [at]=@, [dash]=- & [dot]=.
Warning SPAM TRAP set in header, Use email address in sig. if you must.

```
From -3313786697052896434
X-Google-Thread: fc2a5,ac652d6c57376e0
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
From: Doug Smith W9WI <w9wi@invalid.nospam>
Subject: Re: Poor fm,am radio reception--solutions?
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.06.07.14.04.45.792127@invalid.nospam>
Newsgroups: rec.radio.amateur.homebrew
References: <hBi9i.34$1T2.17@newsfe12.lga>
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<BFo9i.661$Eo.83@newsfe12.lga>
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X-Trace: newsread3.news.pas.earthlink.net 1181225088 4.153.70.101 (Thu, 07 Jun
2007 07:04:48 PDT)
NNTP-Posting-Date: Thu, 07 Jun 2007 07:04:48 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13458
```

On Tue, 05 Jun 2007 22:07:39 -0400, Proctologically Violated�� wrote:
> It is funny how a car antenna is vertical, when most dipoles are horizontal.

It would be even funnier to see a horizontally-polarized antenna on a car<grin>! (actually, I have one - for the 144MHz ham radio band)

Nearly all AM/MW stations use vertical transmitting antennas, not that matching polarization is particularly important in that band.

In the U.S., the vast majority of FM stations use both horizontal *and* vertical polarization (I think they call that "mixed polarization" overseas) so a vertically-polarized car antenna works just fine.

> THAT oughtta get some kind of signal. Unfortunately, it's mostly vertical,
> would like to get some of it horizontal--assuming that would help.

I don't think it'll make much difference.

From -4223084719858726741
X-Google-Thread: fc2a5,f654651750b0f9f7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!sn-xt-sjc-04!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Ham Radio" <jim@rstengineering.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tube reccomendation
Date: Thu, 7 Jun 2007 08:03:38 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <136g7irr9nvk106@news.supernews.com>
References: <4665046a$0$4658$4c368faf@roadrunner.com> <4666f4d3$0$16735$4c368faf@roadrunner.com>
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Complaints-To: abuse@supernews.com
Lines: 34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13459

A 1625 is an 807 with a 12 volt filament, if that's the filament voltage that you have.

Jim

--
"Work like you don't need the money, love like you've never been hurt, and dance like no one is watching."
 --Satchel Paige

"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
news:4666f4d3$0$16735$4c368faf@roadrunner.com...
>
> "Jimmie D" <GFENDER@carolina.rr.com> wrote in message
> news:4665046a$0$4658$4c368faf@roadrunner.com...
>>I have heard there are some tubes that use plate caps that are basically
>>the same as a 6L6.
>> The only readon I want to use something like this is because of the
>> design of the output transformer
>> I have. The B+ connection is on the bottom, underside of the chassis, and
>> the plate connection is on the top.
>>
>> Jimmie
>>
>>
>
> Thanks all, an 807 would be great. They are tall enough to be almost even
> with the top of the transformer.
>
> Jimmie
>

From -9167165614898788140
X-Google-Thread: fc2a5,ac652d6c57376e0
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!sn-xt-sjc-03!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Poor fm,am radio reception--solutions?
Date: Thu, 7 Jun 2007 10:04:57 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <136gelq50v5h26b@corp.supernews.com>
References: <hBi9i.34$1T2.17@newsfe12.lga>
<1181092680.909431.281690@j4g2000prf.googlegroups.com>
<BFo9i.661$Eo.83@newsfe12.lga> <pan.2007.06.07.14.04.45.792127@invalid.nospam>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Complaints-To: abuse@supernews.com
Lines: 22
Xref: g2news1.google.com rec.radio.amateur.homebrew:13460

"Doug Smith W9WI" <w9wi@invalid.nospam> wrote in message
news:pan.2007.06.07.14.04.45.792127@invalid.nospam...
> In the U.S., the vast majority of FM stations use both
> horizontal *and* vertical polarization (I think they call that "mixed

> polarization" overseas) so a vertically-polarized car antenna works just fine.

I believe they actually use circular polarization, so there's a 3dB loss when received by a linearly polarized antenna. Still, I'm told this is almost always a huge improvement over what you get with the transmitter and receiver both using linearly polaraized antennas.

> I don't think it'll make much difference.

I agree. In fact, as far as I've seen, unless you're running high gain point-to-point links, it doesn't seem that matching antenna polarizations on both ends matters all that much, since the fields will tends to have become randomly polarized as they propagate and reflect anyway. (Of course, I figure one of the much more experienced people here can correct me on this if need be!)

From -439465104433424217
X-Google-Thread: fc2a5,f654651750b0f9f7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <4665046a$0$4658$4c368faf@roadrunner.com> <4666f4d3$0$16735$4c368faf@roadrunner.com> <136g7irr9nvk106@news.supernews.com>
Subject: Re: Tube reccomendation
Date: Thu, 7 Jun 2007 14:26:24 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Lines: 15
Message-ID: <46684dc6$0$9903$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13461

"Ham Radio" <jim@rstengineering.com> wrote in message news:136g7irr9nvk106@news.supernews.com...
>A 1625 is an 807 with a 12 volt filament, if that's the filament voltage that you have.
>
> Jim
>
> --

Thanks for the consideration but 6 volts will work fine. I am building my daughter a guitar amp and I wanted it to look "vintage".

Jimmie

From 9034701439387538303
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.esat.net!reader01.news.esat.net!not-for-mail
From: zpk_pkearn_class_a_licensee@aruba.eircom.india.net.com (zpk)
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Car and Deep Cycle Battery FAQ
Date: Thu, 07 Jun 2007 19:42:02 GMT
Organization: 11165--the-number-of-the-stupido
Lines: 9
Message-ID: <46685f5f.2099940@news.iol.ie>
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>
<1180583642.877955.169570@o5g2000hsb.googlegroups.com>
<z5adnVd7TNWBPsPbnZ2dnUVZ8vmdnZ2d@pipex.net> <466076bf.442271@news.iol.ie>
<3Ui9i.37$1T2.8@newsfe12.lga>
Reply-To: deaf-people-are-deaf--they-are-not-blind-or-stupid@hearing-people-not-so-clever.com
NNTP-Posting-Host: dialup0871.ts551.cwt.esat.net
X-Trace: reader01.news.esat.net 1181245195 14071 193.203.143.103 (7 Jun 2007 19:39:55 GMT)
X-Complaints-To: abuse@esat.net
NNTP-Posting-Date: Thu, 7 Jun 2007 19:39:55 +0000 (UTC)
X-Newsreader: Forte Free Agent 1.21/32.243
Xref: g2news1.google.com uk.radio.amateur:115465 rec.radio.amateur.misc:36285 rec.radio.amateur.homebrew:13462

"Proctologically Violated��" <entropic3.14decay@optonline2.718.net> wrote:

> Unless the night rate were substantially less than the day rate, inherent
> losses in any energy conversion proly make this strategy a wash.
> At 80% of the day rate, he was proly breaking even.

perhaps... but he did announce it on some thread of an xyz@gbr bulletin.

From 3842428324006591315
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1

```
X-Google-Thread: fc2a5,27b71ba72241c6c1
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!out04b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news.alt.net
From: Percy Picacity <key@under.the.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Car and Deep Cycle Battery FAQ
Date: Fri, 8 Jun 2007 07:25:56 +0000 (UTC)
Organization: Not Usually
Lines: 23
Message-ID: <Xns994955CAD5673perspicacity@207.14.116.130>
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>
<1180583642.877955.169570@o5g2000hsb.googlegroups.com>
<z5adnVd7TNWBPsPbnZ2dnUVZ8vmdnZ2d@pipex.net> <466076bf.442271@news.iol.ie>
<3Ui9i.37$1T2.8@newsfe12.lga> <46685f5f.2099940@news.iol.ie>
User-Agent: Xnews/2006.08.24
Xref: g2news1.google.com uk.radio.amateur:115519 rec.radio.amateur.misc:36287
rec.radio.amateur.homebrew:13463

zpk_pkearn_class_a_licensee@aruba.eircom.india.net.com (zpk) wrote
in news:46685f5f.2099940@news.iol.ie:

> "Proctologically Violated��"
> <entropic3.14decay@optonline2.718.net> wrote:
>
>> Unless the night rate were substantially less than the day rate,
>> inherent losses in any energy conversion proly make this strategy
>> a wash. At 80% of the day rate, he was proly breaking even.
>
> perhaps... but he did announce it on some thread of an  xyz@gbr
> bulletin.

Don't know if the OP was from the UK, but UK night rates are of the
order of half the day rate (though you have to pay a higher day rate to
qualify!), but only for 7 hours.  I do wonder if it would be possible
now to set up a battery/inverter/load sharing system sufficiently
cheaply to lower the cost of daytime use significantly.  Probably
illegal though.



--
Percy Picacity



From 5104504122024004096
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
```

```
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 08 Jun 2007 06:26:34 -0500
Date: Fri, 08 Jun 2007 12:26:32 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.0 (X11/20070522)
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Car and Deep Cycle Battery FAQ
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>
<1180583642.877955.169570@o5g2000hsb.googlegroups.com>
<z5adnVd7TNWBPsPbnZ2dnUVZ8vmdnZ2d@pipex.net> <466076bf.442271@news.iol.ie>
<3Ui9i.37$1T2.8@newsfe12.lga> <46685f5f.2099940@news.iol.ie>
<Xns994955CAD5673perspicacity@207.14.116.130>
In-Reply-To: <Xns994955CAD5673perspicacity@207.14.116.130>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <FvudnVP5W613ofTbnZ2dnUVZ8tChnZ2d@pipex.net>
Lines: 21
NNTP-Posting-Host: 81.178.117.252
X-Trace: sv3-xAClYNbTBw20rf9zitVFLi5Lyf/VWBXtVaXX2qCQ+tYdksEuz8kt69tT/
ErShLGYaWEltZl6MPTcGT8!hgMVx8wcl3m3t9oykBpbvbKNutcc2/
B2hjOdwA4dyDn8HtaxQbxpnEs2zaKqAG06fgMpMnkU8+Xa!IC3bw7dKI6iW+7xeDqS7IUoUOvE=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com uk.radio.amateur:115547 rec.radio.amateur.misc:36288
rec.radio.amateur.homebrew:13464
```

> Don't know if the OP was from the UK, but UK night rates are of the
> order of half the day rate (though you have to pay a higher day rate to
> qualify!), but only for 7 hours. I do wonder if it would be possible
> now to set up a battery/inverter/load sharing system sufficiently
> cheaply to lower the cost of daytime use significantly. Probably
> illegal though.

================================

Why would it be illegal storing energy ? I can't imagine that it is
illegal charging the batteries of a Golf buggy , at night tariff.
I am sure any golf club would do that to reduce their electricity bill.

BTW ,living in the UK myself ,night tariff indeed normally starts at
about 2300 hrs and finishes at 0600 hrs the following morning .
At our place switching happens with an electro-mechanical timer with a
spring mechanism such that following an outage the timer keeps running.
Eventually that spring has to be re-wound by the electricity supplier
,but that hasn't happened the past 15 years........so the timer at our
place now comes into operation around 2320 hrs ,but then of course also
day tariff starts about half an hour later at 0620 the following morning.

Frank   GM0CSZ / KN6WH

From 1524367134799724654
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news4.google.com!
out03b.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news.alt.net
From: Percy Picacity <key@under.the.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Car and Deep Cycle Battery FAQ
Date: Fri, 8 Jun 2007 12:40:56 +0000 (UTC)
Organization: Not Usually
Lines: 42
Message-ID: <Xns99498B32CF073perspicacity@207.14.116.130>
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>
<1180583642.877955.169570@o5g2000hsb.googlegroups.com>
<z5adnVd7TNWBPsPbnZ2dnUVZ8vmdnZ2d@pipex.net> <466076bf.442271@news.iol.ie>
<3Ui9i.37$1T2.8@newsfe12.lga> <46685f5f.2099940@news.iol.ie>
<Xns994955CAD5673perspicacity@207.14.116.130>
<FvudnVP5W613ofTbnZ2dnUVZ8tChnZ2d@pipex.net>
User-Agent: Xnews/2006.08.24
Xref: g2news1.google.com uk.radio.amateur:115552 rec.radio.amateur.misc:36289
rec.radio.amateur.homebrew:13465

Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote in
news:FvudnVP5W613ofTbnZ2dnUVZ8tChnZ2d@pipex.net:

>> Don't know if the OP was from the UK, but UK night rates are of
>> the order of half the day rate (though you have to pay a higher
>> day rate to qualify!), but only for 7 hours. I do wonder if it
>> would be possible now to set up a battery/inverter/load sharing
>> system sufficiently cheaply to lower the cost of daytime use
>> significantly. Probably illegal though.
>================================
> Why would it be illegal storing energy ?

No problem with a different circuit, but more so if you want to
connect to the supply. In fact people with wind etc. generators can
get permission to sell "green" electricity back to the grid
(automatic metering). It would be somehow satisfying buying night
time electricity from the suppliers and sell it back to them at a
profit.

 I can't imagine that it
> is illegal charging the batteries of a Golf buggy , at night
> tariff. I am sure any golf club would do that to reduce their
> electricity bill.
>
> BTW ,living in the UK myself ,night tariff indeed normally starts
> at about 2300 hrs and finishes at 0600 hrs the following morning .

> At our place switching happens with an electro-mechanical timer
> with a spring mechanism such that following an outage the timer
> keeps running. Eventually that spring has to be re-wound by the
> electricity supplier ,but that hasn't happened the past 15
> years........so the timer at our place now comes into operation
> around 2320 hrs ,but then of course also day tariff starts about
> half an hour later at 0620 the following morning.

Just to get back on topic (nearly), my meter is controlled from a
radio signal (?198kHz) which can move the 7 hours about within a
longer window.

--
Percy Picacity

```
From -3276846467051603767
X-Google-Thread: 11480d,ff7c37e406326134,start
X-Google-Thread: 108122,ff7c37e406326134,start
X-Google-Thread: fc2a5,ff7c37e406326134,start
X-Google-Thread: 107ada,ff7c37e406326134,start
X-Google-Thread: 10bf43,ff7c37e406326134,start
X-Google-Attributes:
gid11480d,gid108122,gidfc2a5,gid107ada,gid10bf43,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out02a.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!spln!extra.newsguy.com!
newsp.newsguy.com!news1
From: MI5Victim@mi5.gov.uk
Newsgroups:
rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.ra
dio.amateur.misc,rec.radio.amateur.policy
Subject: MI5 Persecution: Question and Answer 27/9/95 (2782)
Followup-To:
rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.ra
dio.amateur.misc,rec.radio.amateur.policy,uk.misc
Date: 8 Jun 2007 13:10:57 GMT
Organization: NewsGuy - Unlimited Usenet $19.95
Lines: 175
Message-ID: <m07050813104846@4ax.com>
NNTP-Posting-Host: p6328bfbfff000000da5fc0ab1236840ca90f5aa17b6ab759.newsdawg.com
Xref: g2news1.google.com rec.radio.amateur.dx:3540
rec.radio.amateur.equipment:12163 rec.radio.amateur.homebrew:13467
rec.radio.amateur.misc:36291 rec.radio.amateur.policy:89187
```

In article <DFGxnF.Cr8.0.bloor@torfree.net>
bu765@torfree.net "Mike Corley" writes:

>>> ##: There were also a few other things said at the trial
>>> ##: relating to this which I won't repeat here; it was in the papers

>>> ##: at the time anyway. This quote and others said by and about this
>>> ##: witness were repeating things that had been said by and about
>>> ##: me at around that time.

When, where and by whom ? Let's have some details
that can be checked.

I'm not going to repeat them. They're hurtful to me because they contained abuse that was
directed against me by someone else at the time and which got picked up and thrown again
in the trial. It is a matter of record but I won't repeat it here.

>>> PM: >Who's character is being assassinated? It isn't clear from the post.
>>> PM: >Are we talking about Grenville Janner? I thought he was a spook
>>> PM: >himself? He's certainly able to hold his own on the issue you cite.

>>> ##: Mine, mainly. The reason for putting that episode at the top
>>> ##: of the posting is that they tried to kill two birds with one stone
>>> ##: at the Beck trial - they simultaneously put words into the mouth
>>> ##: of their invented "witness" to smear Janner, and repeated exactly,
>>> ##: word-for-word, stuff which had been said by and about me.

Why would "they" wish to assassinate your character?

Well, let's put it this way - just because this is the first time it's happened in this way,
from these people, on this scale, doesn't mean that it hasn't happened before, on a lesser
scale. At university there were people who quite overtly hated me and would have wished
something nasty to happen to me. Because of where I went making the wrong sort of enemies
is pretty deadly.

"They" would wish to assassinate my character because it had all been done before, and
because they knew I would not be able to react in any other way than I'd reacted previously.

>>> ##: They invaded my home with their bugs, they repeated what I
>>> ##: was saying in the privacy of my home, and they laughed that it
>>> ##: was "so funny", that I was impotent and could not even communicate
>>> ##: what was going on. Who did this? Our friends on BBC television,
>>> ##: our friends in ITN, last but not least our friends in Capital
>>> ##: Radio in London and on Radio 1.

Please give details of when, where and by whom these
comments were made, so that they can be checked.

This was four, five years ago... sorry, I don't remember. I can remember individual incidents,
words which were repeated by different people at different times in different

locations.

Around the end of 1992 Private Eye rtan a front-cover with John and Norma Major, with
the title "Major's support lowest ever" and John saying to Norma "Come back norma" on the
front cover. What can you read in to that? Not a lot, seems like standard fare for PE.
The first time I saw it I was in the pub with some people from work. One was expressing doubts
to the other (let's call the first one Simon, shall we? and the second one Phil?) about
whether what was going on was right. Phil's answer was that if Private Eye was doing it
then it must be ok, "they're usually right".

A few days later, again near work, there were some students laughing in the street,
"Were you COMING BACK later? But I thought you said you were COMING BACK ha ha ha?"
Play on words, you see. Not very nice, either. I had start medication soon afterwards.
Clever people, these chaps who think up PE titles. Just slightly lacking in any
sense of morality.

>>> ##: How did they do this? I'll give you an example. About a year ago,
>>> ##: I was listening to Chris Tarrant (Capital Radio DJ among other
>>> ##: pursuits) on his radio morning show, when he said, talking about
>>> ##: someone he didn't identify, "you know this bloke? he says we're
>>> ##: trying to kill him. We should be done for attempted manslaughter"
>>> ##: which mirrored something I had said a day or two before.
>>> ##: Now that got broadcast to the whole of London - if any recordings
>>> ##: are kept of the shows then it'll be there.

What was the date of the broadcast ?
Out of 2 million plus listeners, why should you be
the only one that Tarrant was allegedly referring to ?

Sometyime in spring 1994. I can't remember the date, I heard the broadcast in the
car - I was going into the office from London that day and just happened to snap
on the radio, and hey presto! Mr Tarrant gives us the benefit of his excellent
understanding.

>>> ##: That's exactly what we did. We went to a competent, professional
>>> ##: detective agency in London, paid them over 400 quid to debug our house.
>>> ##: They found nothing.

What was the name of the detective agency and their
address ?

I don't see why I should tell you that, but they're in Yellow Pages; they're
a well-established outfit.

```
>>> PM: >What? Spend a quarter mil. a year to amuse themselves? And why not
>>> PM: >change every now and again? Why keep watching you? (Unless you _are_
>>> PM: >doing something, and I don't think you are, though you may have some
>>> PM: >deep, dark secret in your past.)
>>>
>>> ##: See the above.

                Is there a deep dark secret in your past ?

Apart from "it's all happened before in a different way", no.

>>> ##: In a couple of cases people have even known my name - when I was in
>>> ##: London over Easter somebody (no idea who they were, just some bloke with

>>> ##: his girlfriend) called me by name  - quite clearly, and my name is
>>> ##: distinctive.

                Is your name truly Mike Corley, or are you using it as
                an alias ?

It's an alias. I'm not English by ethnic origin. If someone manages to pronounce
my name as well as that guy did then they must have been really trying.

>>> ##: There's a little story behind this. First of all, in 1992 I worked
>>> ##: for a company where the people made clear they knew what was going on,
>>> ##: first of all directly (the very first evening I was there I went out to
>>> ##: the pub with them and the Technical Director said to another guy,
>>> ##: "is this the bloke who's been on TV?" "yeah, I think so")

                Have you appeared, or been reported by name on TV ?
                When, where and by whom ?

No. Never. Not directly.

>>> ##: Also, in summer 1992 I went on a trip abroad to Europe by coach,

                What was the name of the coach company and your date
                of departure ?

It was a national express coach. At dover we boarded a ferry for Holland
somewhere.
The company that organized the trip went out of business some time ago, so they
won't
have records of passengers - so we can't get any corroboration from anyone else
that way. We tried all that last summer, ran into a brick wall.

The other thing is in summer 1992 I was visibly ill, so other people in the
party might remember that more than anyone getting at me on the coach trip.

>>> ##: >>Yes, this gets me. I think the answer is that I was set up by
>>> ##: >>someone. I was very aware when this started back in 1990 that I
>>> ##: >>was being painted as a "threat" to which people had to "react"
```

Why were you being painted as a "threat"; is this related
to a "deep,dark, secret" ?

Aaaarrrrgh. I think I should make clear that that's their created justification
rather than the real reason. They started harassing first and then came up with the
reasons for it.

>>>
>>> ##: I think I know who set me up.

Who ?

Someone who knew me some time ago. Someone who would have been able to talk this
little campaign into existence.

>>> ##: The bloke can't even control his own mind without medicine.

Is this true ? What is the medication and dosage ?

Yes, I'm afraid so. Sulpiride, 200mg a day. It's designed to stop people
coming up with the sort of ideas you've heard here for the last few weeks.
Give him a higher dose!!

In the long term it causes tardive dyskinesia, tardive dementia and general
nasty stuff to your brain. So it's three years of sulpiride talking to you here.

>--
>john heelan

2782

From -2315959852687065183
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out01b.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!news-in-02.newsfeed.easynews.com!easynews.com!easynews!sn-xt-sjc-03!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: Lawrence Statton <yankeeinexile@gmail.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Car and Deep Cycle Battery FAQ
Date: 08 Jun 2007 10:14:22 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <87y7iuv5pt.fsf@gmail.com>
Sender: lawrence@hummer
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>

<1180583642.877955.169570@o5g2000hsb.googlegroups.com>
<z5adnVd7TNWBPsPbnZ2dnUVZ8vmdnZ2d@pipex.net> <466076bf.442271@news.iol.ie>
<3Ui9i.37$1T2.8@newsfe12.lga> <46685f5f.2099940@news.iol.ie>
<Xns994955CAD5673perspicacity@207.14.116.130>
<FvudnVP5W613ofTbnZ2dnUVZ8tChnZ2d@pipex.net>
<Xns99498B32CF073perspicacity@207.14.116.130>
<qlki63hbk12sin70vj1jhvlna9q5qubvk8@4ax.com> <f4bpa3$1dm$1@news.datemas.de>
User-Agent: Gnus/5.09 (Gnus v5.9.0) Emacs/21.1
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
X-Complaints-To: abuse@supernews.com
Lines: 16
Xref: g2news1.google.com uk.radio.amateur:115564 rec.radio.amateur.misc:36293 rec.radio.amateur.homebrew:13469

Brian Morrison <scrapspam@fenrir.org.uk> writes:

> I think that the generator is driven by a constant speed drive, the
> blade angle being used to control the speed of this drive, and the
> output connection (relays perhaps) is not closed until the drive has
> been frequency and phase matched with the grid connections. This is
> pretty much how a conventional power station does it.
>

Only on VERY LARGE wind farms. Most small sites rectify the wild AC
and use syncronous inverters to feed back into the grid.

--
Lawrence Statton - lawrenabae@abaluon.abaom s/aba/c/g
Computer software consists of only two components: ones and
zeros, in roughly equal proportions.   All that is required is to
place them into the correct order.

From 4323626430773214638
X-Google-Thread: 1118be,fb0ebc236414afb3
X-Google-Thread: f70d1,fb0ebc236414afb3
X-Google-Thread: 107cee,fb0ebc236414afb3
X-Google-Thread: fc2a5,fb0ebc236414afb3
X-Google-Thread: 10d137,fb0ebc236414afb3
X-Google-Attributes: gid1118be,gidf70d1,gid107cee,gidfc2a5,gid10d137,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04b.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!nx01.iad01.newshosting.com!newshosting.com!news-out.newsfeeds.com!local!news.eskimo.com!eskimo.com!mzenier
From: mzenier@eskimo.com (Mark Zenier)
Newsgroups: sci.electronics.components,alt.comp.hardware.homebuilt,sci.electronics.misc,rec.radio.amateur.homebrew,alt.engineering.electrical
Subject: Re: quick-connect jumper wires / plugs ("daisy chain jumper wire" or similar) ?
Date: Fri, 8 Jun 2007 03:30:11 GMT
Organization: Eskimo North www.eskimo.com (800) 246-6874

Lines: 74
Message-ID: <f4broa$qi2$1@eskinews.eskimo.com>
References: <1181161183.427062.209780@q19g2000prn.googlegroups.com>
NNTP-Posting-Host: eskimo.com
X-Trace: eskinews.eskimo.com 1181315658 27202 204.122.16.13 (8 Jun 2007 15:14:18 GMT)
X-Complaints-To: abuse@eskimo.com
NNTP-Posting-Date: 8 Jun 2007 15:14:18 GMT
Xref: g2news1.google.com sci.electronics.components:16021
alt.comp.hardware.homebuilt:16910 sci.electronics.misc:15936
rec.radio.amateur.homebrew:13470 alt.engineering.electrical:32301

In article <1181161183.427062.209780@q19g2000prn.googlegroups.com>,
Mad Scientist Jr <usenet_daughter@yahoo.com> wrote:
>I am looking for a way to make certain components (such as pots &
>trimmers, 1/4" phono jacks, switches, or other sub-circuits) "plug and
>play" for various prototypes + experiments. Similar to the breadboard
>concept but more permanent. Headers like those found on computer
>motherboards for connecting power LEDs are small enough where the
>leads match the components I'm using and the pins on the motherboard
>are just the right size to plug into a solderless breadboard, but are
>more durable than breadboard jumper wires.
>
>Rick suggested "daisy chain jumper wire" (see below for a description)
>and I did some searching on various sites, but no luck. Can anyone say
>what else this might be listed under or where it might be found?

>Newsgroups: alt.comp.hardware.homebuilt,sci.electronics.misc,
>rec.radio.amateur.homebrew
>From: Rick Frazier <r...@rickfrazier.com>
>Date: Wed, 30 May 2007 17:34:56 -1000
>Local: Wed, May 30 2007 11:34 pm
>Subject: Re: motherboard LED connectors and posts?
>
>I think you might be looking for something that was called "daisy
>chain
>jumper wire" way back in my wire-wrap days. It came as a spool of
>flexible, stranded insulated wire about 24 guage or so, with an
>insulated single pin socket every 5 inches or so. You just counted
>off
>the number of jumpers you wanted to interconnect, and snip them off of
>the roll. The sockets fit over standard .025" square posts quite
>nicely
>and allowed testing minor modifications without wrapping on new wires.
>
>They had a multitude of uses. I still have some leds and other things
>with single 5" wires attached to each leg (each with it's own socket
>at
>the end).
>
>I haven't even looked for this stuff for years, and know I hava a half
>roll tucked away in a box somewhere. If I could only find it I'd at
>least have a part number and manufacturer to provide. I'll see if I

>can
>dig it out sometime in the next couple of days...
>
>Good Luck
>--Rick

As I remember, it was from one of those "if you have to ask the price,
you probably can't afford it" breadboard manufacturers. Augat, or Cambion,
or the like.

Dig, Dig, Dig. Ah, no. It was Berg (part of DuPont). In an old (1994)
Newark catalog I keep for reference, it's "Daisy Chain Jumpers", $215.72
for a chain of 250, either 2.5 or 5 inch spacing.

We used the same crimp terminals at a place I worked at in the '80s.
The hand crimp tool cost about $900. The contact is self contained and
doesn't need any plastic shell to make the contact spring action work.
So the terminals can fit into a shell (like we used them), or work by
themselves, insulated with shrink tubing.

But things aren't that bad, now. They use(/used?) very similar crimp
terminals in the header connectors for PCs, like the plug to hook the
reset button or speaker to the mother board.

Jameco sells this stuff as ".100" Non-Polarized Connector Housings and Crimp
Pins". IMHO, try part 100766. Page 155 in the May 2007 catalog. 12 cents
a terminal and the crimper is only $10.95. Add a little bit of wire and
shrink tube. What a difference 25 years makes...

Mark Zenier mzenier@eskimo.com
Googleproofaddress(account:mzenier provider:eskimo domain:com)

From -2542002850724483840
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
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X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 08 Jun 2007 11:23:51 -0500
Date: Fri, 08 Jun 2007 17:23:49 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.0 (X11/20070522)
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Car and Deep Cycle Battery FAQ
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>
<1180583642.877955.169570@o5g2000hsb.googlegroups.com>

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<z5adnVd7TNWBPsPbnZ2dnUVZ8vmdnZ2d@pipex.net> <466076bf.442271@news.iol.ie>
<3Ui9i.37$1T2.8@newsfe12.lga> <46685f5f.2099940@news.iol.ie>
<Xns994955CAD5673perspicacity@207.14.116.130>
<FvudnVP5W613ofTbnZ2dnUVZ8tChnZ2d@pipex.net>
<Xns99498B32CF073perspicacity@207.14.116.130>
<qlki63hbk12sin70vj1jhvlna9q5qubvk8@4ax.com>
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u8Nh8+1BvDIZBDFXw+8hkm/4V3I7oOH6S60jrcI39O2C2ru1J6vwmQvTuwSU9kOshTodueQDABD6!
P3ep73Uh6K+noPc=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com uk.radio.amateur:115581 rec.radio.amateur.misc:36295
rec.radio.amateur.homebrew:13472

>> No problem with a different circuit, but more so if you want to
>> connect to the supply.  In fact people with wind etc. generators can
>> get permission to sell "green" electricity back to the grid
>> (automatic metering).  It would be somehow satisfying buying night
>> time electricity from the suppliers and sell it back to them at a
>> profit.
>
>   How is that arranged? I presume the windmills produce DC?
>
>   Or if AC how do they arrange synchronisation with the
> mains?
================================
Domestic wind energy systems in the 1-10 kW range often involve an AC
generator ,its output being rectified with the DC fed into an inverter
which is synchronised with the grid.

In the UK a company 'Windsave' sells and (obligatory) installs 1 kW wind
generators which are connected to the domestic 230V-50 Hz system .
The location of the windgen and its nearby inverter  cannot be too far
away from the switchboard (up to 15 metres). Apparently the output
voltage  of the inverter is slightly higher than the grid supply , such
there is a preferential pick-off from the wind gen system.
However when no power is consumed wind generated energy is fed  into the
grid.
I have 'heard' that in some countries (but not in the UK)
electro-mechanical kiloWattHour meters can rotate  reversed  when fed
with power from the consumer's side, with the counter counting down .
This would be very beneficial for people with the above described system
```

. Perhaps someone on this NG can confirm that these meters really exist
and in which countries.

For my AR operations + desk lighting and peripherals I use 12 V
batteries charged by an up to 170 Watts windgen and 2 solar panels with
a total capacity of 128 Watts(peak)...........just for the h*ll of it.
The wind gen. has a 3 phase generator and integral rectifying diodes(in
fact 2 bridge rectifiers of which 1 is fully utilised and the other one
only half)

Frank GM0CSZ / KN6WH   The future is 'renewable'

From 5494845332783217183
X-Google-Thread: fc2a5,171d4f54318dbf0b
X-Google-Thread: 111d0a,171d4f54318dbf0b
X-Google-Thread: 108ff0,171d4f54318dbf0b
X-Google-Thread: 110694,171d4f54318dbf0b
X-Google-Thread: 107cee,171d4f54318dbf0b
X-Google-Attributes:
gidfc2a5,gid111d0a,gid108ff0,gid110694,gid107cee,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
g4g2000hsf.googlegroups.com!not-for-mail
From: Mad Scientist Jr <usenet_daughter@yahoo.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,alt.music.makers.electronic,rec.
music.makers.guitar,sci.electronics.misc
Subject: Re: radio shielding?
Date: 30 May 2007 15:57:46 -0700
Organization: http://groups.google.com
Lines: 79
Message-ID: <1180565866.701197.36340@g4g2000hsf.googlegroups.com>
References: <1180545505.579295.88730@g4g2000hsf.googlegroups.com>
   <vh1hp.lbq.19.2@news.alt.net>
   <1180562724.670843.134540@q75g2000hsh.googlegroups.com>
   <cbednTxqb_1dZMDbnZ2dnUVZ_hmtnZ2d@comcast.com>
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NNTP-Posting-Date: Wed, 30 May 2007 22:57:56 +0000 (UTC)
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Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=12.150.126.82;
   posting-account=hqcX8A0AAABKXTlWUU3mGm_QMZM61ECd
Xref: g2news1.google.com rec.radio.amateur.homebrew:13368
sci.electronics.basics:54325 alt.music.makers.electronic:1395

rec.music.makers.guitar:28200 sci.electronics.misc:15717

> If this amp powered by a battery?

A 9V battery, although I plugged a 200 mA 9V AC adapter into it and it
worked also, though I didn't leave it plugged in that long - maybe if
it was in longer it would have fried it. I'm not sure how many mA
would be unsafe for this circuit - I looked up 9V batteries to see
what the current typically is, but it seems this depends on the
circuit. Until I find this out I'll probably just use a 9V "battery
eliminator" AC adapter.

> In this configuration, pin 2 is the most sensitive node, and
> anything connected to it should be surrounded with shielding.

I think I'll start with this. Thanks for your detailed input! !

On May 30, 6:25 pm, John Popelish <jpopel...@rica.net> wrote:
> Mad Scientist Jr wrote:
> >> Did you use shielded wire to connect the controls and jacks?
>
> > Thanks for your reply...
>
> > No, just normal stranded wire. Is that where the most interference
> > would be leaking in?
>
> > I found shielding paint (see below) - would it help to paint the
> > inside of the project box with this?
>
> >http://www.lessemf.com/paint.html
>
> > SUPER SHIELD
>
> > Reduce or Eliminate EMI / RFI Interference
>
> > Super Shield A general purpose EMI/RFI shielding in a handy aerosol
> > spray for use on most substrates. Especially good for RF shielding
> > plastic electronics enclosures. Consists of a tough, durable acrylic
> > base pigmented with a high purity nickel flake. One to two mil coating
> > provides 40dB - 50dB shielding across a frequency range of 5 to
> > 1800MHz. About 1600 in=B2/can coverage at 1.5 mil. Contains no CFC 'S,
> > NO HCFC'S, ozone friendly. 340g (12 oz) aerosol can. Dries to a dull
> > gray color. Click to see MSDS
>
> >   * Surface Resistivity ~0.7 Ohm/sq
> >   * Dry time: 10 minutes at room temperature
> >   * Recoat time: 5 minutes
> >   * Excellent adhesion to most plastics
> >   * Tested as per IEEE Std. 299-1997
> >   * Underwriters Laboratories Recognized File No.: E202609
> >   * NO CFC 'S, NO HCFC'S, Ozone Friendly

> >   * RoHS Compliant
>
> > Flammable aerosol, ships by ground only.
>
> > Super Shield (Cat. #A285) $24.95
> > add to cart
>
> It would probably be little help. And if you coat the box
> with anything conductive, it won't help much unless you can
> make a good electrical connection between the coating and
> pin 4 of the chip. If you really want to try this, thin
> brass shim stock cut and folded to fit the box, is probably
> the best you can get, short of a copper or aluminum box. It
> is also easily solderable to make the ground connection.
>
> If this amp powered by a battery?
>
> In this configuration, pin 2 is the most sensitive node, and
> anything connected to it should be surrounded with shielding.
>
> Pins 1 and 8 are also somewhat sensitive so if the gain pot
> has a metal case, that case should also have a ground wire
> run to pin 4 to shield the resistive element.
>
> Pin 7 is less sensitive, and since this circuit connects
> nothing to it, it is probably not involved in the noise.

```
From 8450475323445191553
X-Google-Thread: fc2a5,171d4f54318dbf0b
X-Google-Thread: 111d0a,171d4f54318dbf0b
X-Google-Thread: 108ff0,171d4f54318dbf0b
X-Google-Thread: 110694,171d4f54318dbf0b
X-Google-Thread: 107cee,171d4f54318dbf0b
X-Google-Attributes:
gidfc2a5,gid111d0a,gid108ff0,gid110694,gid107cee,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 30 May 2007 18:04:26 -0500
Date: Wed, 30 May 2007 19:05:18 -0400
From: John Popelish <jpopelish@rica.net>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,alt.music.makers.electronic,rec.
music.makers.guitar,sci.electronics.misc
Subject: Re: radio shielding?
References: <1180545505.579295.88730@g4g2000hsf.googlegroups.com>
<vh1hp.lbq.19.2@news.alt.net>
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<1180562724.670843.134540@q75g2000hsh.googlegroups.com>
<cbednTxqb_1dZMDbnZ2dnUVZ_hmtnZ2d@comcast.com>
<1180565866.701197.36340@g4g2000hsf.googlegroups.com>
In-Reply-To: <1180565866.701197.36340@g4g2000hsf.googlegroups.com>
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K3ItpcNKG88XfFI!5Ei3h3pfPCgBYayomOdwEL0pFhIv
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13369
sci.electronics.basics:54326 alt.music.makers.electronic:1396
rec.music.makers.guitar:28201 sci.electronics.misc:15718
```

Mad Scientist Jr wrote:

>> If this amp powered by a battery?
>
> A 9V battery, although I plugged a 200 mA 9V AC adapter into it and it
> worked also, though I didn't leave it plugged in that long - maybe if
> it was in longer it would have fried it. I'm not sure how many mA
> would be unsafe for this circuit - I looked up 9V batteries to see
> what the current typically is, but it seems this depends on the
> circuit. Until I find this out I'll probably just use a 9V "battery
> eliminator" AC adapter.

The reason I asked is that a battery eliminator will
probably have some hum in its output, and pin 7 is there to
remove most of that interference from getting into the
amplifier.

See the data sheet for the LM386:
http://web.mit.edu/6.115/www/datasheets/LM386.pdf

The supply voltage enters the input to bias the output at
half of the supply voltage, going past pin 7, which is
usually bypassed to ground by 10 uF or more to smooth the
bias current from the supply. Even with a battery supply,
the voltage will bounce around a little from the current
drawn by the output transistors, and bypassing pin 7 helps
reduce that effect, too.

>> In this configuration, pin 2 is the most sensitive node, and
>> anything connected to it should be surrounded with shielding.
>
> I think I'll start with this. Thanks for your detailed input! !

Good luck.

```
From -2332828457943587 98
X-Google-Thread: f70d1,b1d2aa8242f32468
X-Google-Thread: 107cee,b1d2aa8242f32468
X-Google-Thread: fc2a5,b1d2aa8242f32468
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out03a.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe12.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups:
alt.comp.hardware.homebuilt,sci.electronics.misc,rec.radio.amateur.homebrew
References: <1180546547.504204.176760@p47g2000hsd.googlegroups.com>
<j3mr53l9cf4ugtkk8oou0f4vi2nkalti32@4ax.com>
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Lines: 38
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
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Message-ID: <Ylo7i.5595$As5.4956@newsfe12.lga>
Date: Wed, 30 May 2007 20:08:18 -0400
NNTP-Posting-Host: 24.236.172.239
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NNTP-Posting-Date: Wed, 30 May 2007 17:08:24 MST
Xref: g2news1.google.com alt.comp.hardware.homebuilt:16745
sci.electronics.misc:15720 rec.radio.amateur.homebrew:13371
```

"kony" <spam@spam.com> wrote in message
news:j3mr53l9cf4ugtkk8oou0f4vi2nkalti32@4ax.com...

> You might check the following surplus sites (and ebay).
> http://sales.goldmine-elec.com/
> http://www.bgmicro.com/
> http://www.allelectronics.com/
> http://www.mpja.com/
> http://www.excesssolutions.com/

Dont'forget Mendelson's www.meci.com

These outlets will often have very good prices, but sometimes it can be hard to tell exactly what you are getting, and you cannot count on getting the same thing from them next week.

I would suggest you call Digikey and Mouser and have them send you their paper catalog. there are hundreds of very similar connectors, often with very different prices. It is really hard using the web search for these things to locate the best one for your purposes, although Digikey does have a scheme where you can download parts of their catalog as pdf. Mouser probaby does too. Mouser and Digikey seem to have a competition on who can kill the most trees, though ... both of their catalogs are over 3000 pages. You will not make friends with the mailman this way.

You will find that Mouser and Digikey tend to have different pricing, as does Newark. The one that is cheaper for one thing often isn't cheaper for another. I don't think Newark has a paper catalog, unfortunate because they are often cheaper than Mouser and Digikey.

Also be aware that on these types of connectors you sometimes need to buy the pins seperately from the housing.

..

From 5225258469369199116
X-Google-Thread: fc2a5,171d4f54318dbf0b
X-Google-Thread: 111d0a,171d4f54318dbf0b
X-Google-Thread: 108ff0,171d4f54318dbf0b
X-Google-Thread: 110694,171d4f54318dbf0b
X-Google-Thread: 107cee,171d4f54318dbf0b
X-Google-Attributes:
gidfc2a5,gid111d0a,gid108ff0,gid110694,gid107cee,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 30 May 2007 20:53:26 -0500
Date: Wed, 30 May 2007 21:54:17 -0400
From: John Popelish <jpopelish@rica.net>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,alt.music.makers.electronic,rec.music.makers.guitar,sci.electronics.misc
Subject: Re: radio shielding?
References: <1180545505.579295.88730@g4g2000hsf.googlegroups.com>
<vh1hp.lbq.19.2@news.alt.net>
<1180562724.670843.134540@q75g2000hsh.googlegroups.com>
<cbednTxqb_1dZMDbnZ2dnUVZ_hmtnZ2d@comcast.com>
<1180565866.701197.36340@g4g2000hsf.googlegroups.com>
In-Reply-To: <1180565866.701197.36340@g4g2000hsf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <6eOdnSgnQ8oLt8PbnZ2dnUVZ_o2vnZ2d@comcast.com>
Lines: 21
NNTP-Posting-Host: 71.62.65.134

X-Trace: sv3-
MH70qNnr780bwjIJmXnObnE+262rLsvlPKpKtKPbU2imyahBOL0dnQ8i9wj0Gsd9LH76kBFbsr8jc9B!
LijV0BcnfPVUkMZ5SlLfvFBNuWF+1i6ZBCslwEh7xPi87504rhMT8OpQ4tJAS5KIA4s0IFsgWoQA!
abScbA13gw3EFww05EUAWTw6f0d/
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13372
sci.electronics.basics:54334 alt.music.makers.electronic:1398
rec.music.makers.guitar:28203 sci.electronics.misc:15721

Mad Scientist Jr wrote:
>> If this amp powered by a battery?
>
> A 9V battery, although I plugged a 200 mA 9V AC adapter into it and it
> worked also, though I didn't leave it plugged in that long - maybe if
> it was in longer it would have fried it. I'm not sure how many mA
> would be unsafe for this circuit - I looked up 9V batteries to see
> what the current typically is, but it seems this depends on the
> circuit.

(snip)

The current with the adapter is also controlled by the attached circuit. The 200 mA rating is the maximum current the load can draw, before the adapter risks over heating. The only real risk with the adapter is that, under no load conditions, its voltage will rise above its 9 volt, full load rating, enough to damage the chip. All versions of LM386 can handle a 12 volt supply and are not usually damaged by 15 volts if little sound is being produced. I would check the adapter with no load and make sure it does not produce more than 15 volts.

From 616507778550852071
X-Google-Thread: f70d1,b1d2aa8242f32468
X-Google-Thread: 107cee,b1d2aa8242f32468
X-Google-Thread: fc2a5,b1d2aa8242f32468
X-Google-Attributes: gidf70d1,gid107cee,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out03b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx01.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-
mail
Date: Wed, 30 May 2007 17:34:56 -1000
From: Rick Frazier <rickf@rickfrazier.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0

Newsgroups:
alt.comp.hardware.homebuilt,sci.electronics.misc,rec.radio.amateur.homebrew
Subject: Re: motherboard LED connectors and posts?
References: <1180546547.504204.176760@p47g2000hsd.googlegroups.com>
In-Reply-To: <1180546547.504204.176760@p47g2000hsd.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 42
Message-ID: <465e422a$0$3226$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com alt.comp.hardware.homebuilt:16748
sci.electronics.misc:15722 rec.radio.amateur.homebrew:13373

I think you might be looking for something that was called "daisy chain jumper wire" way back in my wire-wrap days. It came as a spool of flexible, stranded insulated wire about 24 guage or so, with an insulated single pin socket every 5 inches or so. You just counted off the number of jumpers you wanted to interconnect, and snip them off of the roll. The sockets fit over standard .025" square posts quite nicely and allowed testing minor modifications without wrapping on new wires.

They had a multitude of uses. I still have some leds and other things with single 5" wires attached to each leg (each with it's own socket at the end).

I haven't even looked for this stuff for years, and know I hava a half roll tucked away in a box somewhere. If I could only find it I'd at least have a part number and manufacturer to provide. I'll see if I can dig it out sometime in the next couple of days...

Good Luck
--Rick

Mad Scientist Jr wrote:
> Does anyone know where you can order motherboard LED type connectors
> and posts like these
>
>   http://estore.asus.com/images/14-000014000.JPG
>   http://www.pctechguide.com/images/tutorials/SCSI/LEDConnector.gif
>   http://lib.store.yahoo.net/lib/directron/wircon7b.jpg
>   http://www.hardwaresecrets.com/imageview.php?image=628
>   http://www.infohq.com/Computer/CompGraphics/AthlonBuild/accessorycons.jpg
>   http://www.pcper.com/images/reviews/285/install03.jpg
>
> Preferably at a good price, as I am looking to buy a bunch (a couple
> hundred).
>
> I have seen 2 or 3 pin connectors are pretty common on motherboards,
> but I am mainly looking for one-pin connectors, if available.
>
> I would imagine the posts may just come in strips of wire that you
> would cut yourself?

```
>
> Much appreciated...
>


From 3843496693984202950
X-Google-Thread: fc2a5,54780dcdccc14b43
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!k79g2000hse.googlegroups.com!not-for-
mail
From: lw1ecp <danyperez1@yahoo.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Varactor dipper
Date: 30 May 2007 20:47:29 -0700
Organization: http://groups.google.com
Lines: 15
Message-ID: <1180583249.283233.9560@k79g2000hse.googlegroups.com>
References: <1180323722.467728.144750@p47g2000hsd.googlegroups.com>
   <465dade8$1_1@news.bluewin.ch>
NNTP-Posting-Host: 190.136.251.96
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180583249 2485 127.0.0.1 (31 May 2007 03:47:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 31 May 2007 03:47:29 +0000 (UTC)
In-Reply-To: <465dade8$1_1@news.bluewin.ch>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; MEGAUPLOAD 1.0),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k79g2000hse.googlegroups.com; posting-host=190.136.251.96;
   posting-account=YKj2jA0AAAAF85ssE8WTvzzuJs1ussNt
Xref: g2news1.google.com rec.radio.amateur.homebrew:13374

> The German magazine Funk Amateur of April 2006 had a interesting design: (...)

The DK1HE "Superdipper" "Dipit"?. Yeah, it's a fantastic idea!. It's
like manually rotating a little forth and back the tuning knob, 400
times a second. A little drawback is its (understandable) complexity.
And it goes up to only 42MHz. The english version is in
www.qrpproject.de/UK/DipItUk.html
If I can't find an already chewed design, I may end up building this
thing, plus some ideas from the DUBUS VHF UHF Technik book by DL7QY,
reaching >1GHz but with the aforementioned amplitude clipping at low
end.
If this is NOT what you have, then I will gladly accept your offer!
Thank you for answering!.
Daniel Perez



From -3519144400080615326
```

```
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o5g2000hsb.googlegroups.com!not-for-
mail
From: lw1ecp <danyperez1@yahoo.com.ar>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Car and Deep Cycle Battery FAQ
Date: 30 May 2007 20:54:02 -0700
Organization: http://groups.google.com
Lines: 10
Message-ID: <1180583642.877955.169570@o5g2000hsb.googlegroups.com>
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>
NNTP-Posting-Host: 190.136.251.96
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180583651 3391 127.0.0.1 (31 May 2007 03:54:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 31 May 2007 03:54:11 +0000 (UTC)
In-Reply-To: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; MEGAUPLOAD 1.0),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o5g2000hsb.googlegroups.com; posting-host=190.136.251.96;
   posting-account=YKj2jA0AAAAF85ssE8WTvzzuJs1ussNt
Xref: g2news1.google.com uk.radio.amateur:114759 rec.radio.amateur.misc:36198
rec.radio.amateur.homebrew:13375

On 30 mayo, 06:17, "The Legend" <trabant owners club@Nicks
place.comco> wrote:
> The Car and Deep Cycle Battery FAQ Web pages have been moved (...)
Thank you for the news!. One important lesson we electronic
experimenters should draw from these FAQ is car batteries are not a
good choice for us, their specialty is delivering huge starting
currents, but they suffer a lot if discharged almost completely, even
with small currents.
Daniel Perez




From -5332542768115959429
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 31 May 2007 05:27:39 -0500
```

Date: Thu, 31 May 2007 11:27:38 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.0 (X11/20070522)
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Car and Deep Cycle Battery FAQ
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>
<1180583642.877955.169570@o5g2000hsb.googlegroups.com>
In-Reply-To: <1180583642.877955.169570@o5g2000hsb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <z5adnVd7TNWBPsPbnZ2dnUVZ8vmdnZ2d@pipex.net>
Lines: 25
NNTP-Posting-Host: 81.179.73.52
X-Trace: sv3-IdjF3iorC5Se2O2OhLO//
ukn1ye4HL4KNkwc1H9vhxi+6HZtdyVacjvYdmFFQGP0lRAelUb0iVWGvge!
mXhoVaFYosePYnpLA6puuwts1ZBTMg4oM+Si0t73kjrKUfGkUN8VYgyws2pZBsxZOpq0dxiRZDVV!U6/
lG5ixw8FiBzMENa/+jIaV
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com uk.radio.amateur:114779 rec.radio.amateur.misc:36201 rec.radio.amateur.homebrew:13376

lw1ecp wrote:
> On 30 mayo, 06:17, "The Legend" <trabant owners club@Nicks
> place.comco> wrote:
>> The Car and Deep Cycle Battery FAQ Web pages have been moved (...)
> Thank you for the news!. One important lesson we electronic
> experimenters should draw from these FAQ is car batteries are not a
> good choice for us, their specialty is delivering huge starting
> currents, but they suffer a lot if discharged almost completely, even
> with small currents.
> Daniel Perez
>
=====================================
However car batteries can be used very effectively for amateur radio operations by using them as a peak current provider in conjunction with a modest (current wise) PSU.
A nominal 100 W RF SSB transmitter might need say 20 Amperes in the peaks , but (even with audio processing) ,on transmit ,the average current will hardly exceed 8 Amperes and taking into account a 50/50 tx/rx duration ratio , such a transmitter will happily operate for long periods with a say 60Ah car battery and a 6 Amperes power supply unit.
And the battery will have a long life. Of course ,to be close to the transceiver the battery will have to be of the sealed variety .

Frank   GM0CSZ / KN6WH

```
From -1166997708981522357
X-Google-Thread: fc2a5,171d4f54318dbf0b
X-Google-Thread: 111d0a,171d4f54318dbf0b
X-Google-Thread: 108ff0,171d4f54318dbf0b
X-Google-Thread: 110694,171d4f54318dbf0b
X-Google-Thread: 107cee,171d4f54318dbf0b
X-Google-Attributes:
gidfc2a5,gid111d0a,gid108ff0,gid110694,gid107cee,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!gail.ripco.com!
newspeer.tds.net!216.170.153.140.MISMATCH!newsreading01.news.tds.net!53ab2750!not-
for-mail
From: Jack Pagel <nz9u@tds.net>
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.4) Gecko/20030624
Netscape/7.1 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,alt.music.makers.electronic,rec.
music.makers.guitar,sci.electronics.misc
Subject: Re: radio shielding?
References: <1180545505.579295.88730@g4g2000hsf.googlegroups.com>
<vh1hp.lbq.19.2@news.alt.net>
<1180562724.670843.134540@q75g2000hsh.googlegroups.com>
<vhm4o.ag4.17.3@news.alt.net>
In-Reply-To: <vhm4o.ag4.17.3@news.alt.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 32
Message-ID: <D4z7i.35104$G23.5455@newsreading01.news.tds.net>
Date: Thu, 31 May 2007 12:20:51 GMT
NNTP-Posting-Host: 66.222.103.243
X-Complaints-To: news@tds.net
X-Trace: newsreading01.news.tds.net 1180614051 66.222.103.243 (Thu, 31 May 2007
07:20:51 CDT)
NNTP-Posting-Date: Thu, 31 May 2007 07:20:51 CDT
Organization: tds.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13377
sci.electronics.basics:54350 alt.music.makers.electronic:1399
rec.music.makers.guitar:28210 sci.electronics.misc:15729



Meat Plow wrote:
> On Wed, 30 May 2007 15:05:24 -0700, Mad Scientist Jr wrote:
>
>
>>>Did you use shielded wire to connect the controls and jacks?
>>
>>Thanks for your reply...
>>
>>No, just normal stranded wire. Is that where the most interference
```

```
>>would be leaking in?
>
>
> You might want to rewire it with shielded, won't take that long and would
> eliminate that as a possibility. I built a 50 watt push pull tube guitar
> amp back in my teens 1970's and had to go back and replace some front end
> circuits with shielded because of hum. No radio stations but I didn't live
> close to one like you might.
>
I live a mile away from an AM radio station. Usually it doesn't get into
the amps, but there are/were some amps that we could hear the AM radio
station coming thru. A quick way to eliminate that is to wind a coil
with the guitar cord very close to the plug that goes into the amp. Make
the coil small diameter, 2 or 3 inches. That will choke the signal from
entering the amp. It see's the guitar cord as a long wire antenna. How
many turns? Start with 5 or 6, if that doesn't work try a couple more turns.
Hope this may be of some help.
Jack
Fender Santa Maria
Gibson SG




From 6579605688037753443
X-Google-Thread: fc2a5,171d4f54318dbf0b
X-Google-Thread: 111d0a,171d4f54318dbf0b
X-Google-Thread: 108ff0,171d4f54318dbf0b
X-Google-Thread: 110694,171d4f54318dbf0b
X-Google-Thread: 107cee,171d4f54318dbf0b
X-Google-Attributes:
gidfc2a5,gid111d0a,gid108ff0,gid110694,gid107cee,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.sysmatrix.net!
news.sysmatrix.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 31 May 2007 07:40:44 -0500
From: NoSpam@daqarta.com (Bob Masta)
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,alt.music.makers.electronic,rec.
music.makers.guitar,sci.electronics.misc
Subject: Re: radio shielding?
Date: Thu, 31 May 2007 12:45:11 GMT
Organization: Interstellar Research
Reply-To: NoSpam@daqarta.com
Message-ID: <465ec15f.1000289@news.sysmatrix.net>
References: <1180545505.579295.88730@g4g2000hsf.googlegroups.com>
X-Newsreader: Forte Free Agent 1.11/32.235
Lines: 48
NNTP-Posting-Host: 216.203.223.85
X-Trace: sv3-NqaThdUh0EtV00piQZSBGNSOW3QAIk/
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9UkDhCx+lzGAP3sKfIzkgZ0iI5/+EToNZIowGIW6piPyTRmAsmH3cE/c6mClkKg!
hQh0I7TsPON1UBpuPVsv
```

X-Complaints-To: abuse@sysmatrix.net
X-DMCA-Complaints-To: abuse@sysmatrix.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13378 sci.electronics.basics:54351 alt.music.makers.electronic:1400 rec.music.makers.guitar:28211 sci.electronics.misc:15730

On 30 May 2007 10:18:26 -0700, Mad Scientist Jr <usenet_daughter@yahoo.com> wrote:

>I am building an amplifier
>
>(for schematic see page 5 here:
>http://makezine.com/09/crackerboxamp/
>)
>
>but when I turn up the gain, I get buzz and can actually hear some radio broadcasts on it.
>
>I assume I need to shield the circuit, or parts of it...
>
>Would lining the inside of the project case (in this case a cardboard cracker box) with aluminum foil work?
>
>Incidentally, does anyone know if someone makes a type of "shielding" spray paint or primer, that you could just spray on a plastic or cardboard project box, that would provide shielding?
>
>Any help appreciated...
>

If you are hearing radio broadcasts, it is because of two things: 1) The bandwidth of the amp is too high, and 2) there is nonlinearity (ie rectification) in the amp, typically the input stage.

You can probably solve this problem simply with a small RF bypass capacitor across the amp input, just after the input resistor. Set the RC product to a microsecond or so.

If you look inside consumer audio amps, you'll find that shielding is not normally used.

Best regards,

Bob Masta

```
From -2401508890306977602
X-Google-Thread: fc2a5,171d4f54318dbf0b
X-Google-Thread: 111d0a,171d4f54318dbf0b
X-Google-Thread: 108ff0,171d4f54318dbf0b
X-Google-Thread: 110694,171d4f54318dbf0b
X-Google-Thread: 107cee,171d4f54318dbf0b
X-Google-Attributes:
gidfc2a5,gid111d0a,gid108ff0,gid110694,gid107cee,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!a26g2000pre.googlegroups.com!not-for-
mail
From: MadEngineer <glenn.b.dixon@gmail.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,alt.music.makers.electronic,rec.
music.makers.guitar,sci.electronics.misc
Subject: Re: radio shielding?
Date: 31 May 2007 06:08:27 -0700
Organization: http://groups.google.com
Lines: 26
Message-ID: <1180616907.495853.12960@a26g2000pre.googlegroups.com>
References: <1180545505.579295.88730@g4g2000hsf.googlegroups.com>
   <465ec15f.1000289@news.sysmatrix.net>
NNTP-Posting-Host: 67.177.9.30
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180616958 29278 127.0.0.1 (31 May 2007 13:09:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 31 May 2007 13:09:18 +0000 (UTC)
In-Reply-To: <465ec15f.1000289@news.sysmatrix.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.11)
Gecko/20070312 Firefox/1.5.0.11,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a26g2000pre.googlegroups.com; posting-host=67.177.9.30;
   posting-account=EvBMNw0AAABX-Et6w0086s4DXqrY-API
Xref: g2news1.google.com rec.radio.amateur.homebrew:13379
sci.electronics.basics:54352 alt.music.makers.electronic:1401
rec.music.makers.guitar:28212 sci.electronics.misc:15731
```

You failed to mention what you have on the input, which can be a factor--if you disconnect any input cables, short your input to ground right at the amp and the unwanted stuff is still there, is is very possible your unwanted signals are coming through the 5K gain pot and its leads. Signals on these leads directly modulate the output. Try this:

Replace the 5K pot with a resistor (say, 1K--the lower the R the higher the gain) soldered right on the board. Disconnect the pot wires completely. If that cures your problem consider eliminating that gain control and just using the volume pot. Otherwise, you could try shielding those wires, with the shield tied to signal ground, though I'm not completely sure that would work. Use stereo shielded cable with both wires in the same shield if possible. Twisting the two wires together may help.

You can also try Mr. Masta's RF bypassing, only on the gain pot inputs as well.

GL
Glenn

```
From -2532485347851626052
X-Google-Thread: fc2a5,171d4f54318dbf0b
X-Google-Thread: 111d0a,171d4f54318dbf0b
X-Google-Thread: 108ff0,171d4f54318dbf0b
X-Google-Thread: 110694,171d4f54318dbf0b
X-Google-Thread: 107cee,171d4f54318dbf0b
X-Google-Attributes:
gidfc2a5,gid111d0a,gid108ff0,gid110694,gid107cee,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q69g2000hsb.googlegroups.com!not-for-
mail
From: Mad Scientist Jr <usenet_daughter@yahoo.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,alt.music.makers.electronic,rec.
music.makers.guitar,sci.electronics.misc
Subject: Re: radio shielding?
Date: 31 May 2007 07:21:10 -0700
Organization: http://groups.google.com
Lines: 16
Message-ID: <1180621270.817970.93190@q69g2000hsb.googlegroups.com>
References: <1180545505.579295.88730@g4g2000hsf.googlegroups.com>
   <vh1hp.lbq.19.2@news.alt.net>
   <1180562724.670843.134540@q75g2000hsh.googlegroups.com>
   <vhm4o.ag4.17.3@news.alt.net>
   <D4z7i.35104$G23.5455@newsreading01.news.tds.net>
NNTP-Posting-Host: 12.150.126.82
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180621271 16100 127.0.0.1 (31 May 2007 14:21:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 31 May 2007 14:21:11 +0000 (UTC)
In-Reply-To: <D4z7i.35104$G23.5455@newsreading01.news.tds.net>
```

User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.4)
Gecko/20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q69g2000hsb.googlegroups.com; posting-host=12.150.126.82;
   posting-account=hqcX8A0AAABKXTlWUU3mGm_QMZM61ECd
Xref: g2news1.google.com rec.radio.amateur.homebrew:13380
sci.electronics.basics:54353 alt.music.makers.electronic:1402
rec.music.makers.guitar:28215 sci.electronics.misc:15732

That's a pretty cool trick - so this would mean the radio interference
is coming in through the guitar and/or guitar cable?

> I live a mile away from an AM radio station. Usually it doesn't get into
> the amps, but there are/were some amps that we could hear the AM radio
> station coming thru. A quick way to eliminate that is to wind a coil
> with the guitar cord very close to the plug that goes into the amp. Make
> the coil small diameter, 2 or 3 inches. That will choke the signal from
> entering the amp. It see's the guitar cord as a long wire antenna. How
> many turns? Start with 5 or 6, if that doesn't work try a couple more turns.
> Hope this may be of some help.
> Jack
> Fender Santa Maria
> Gibson SG

From 1564927618838937630
X-Google-Thread: fc2a5,171d4f54318dbf0b
X-Google-Thread: 111d0a,171d4f54318dbf0b
X-Google-Thread: 108ff0,171d4f54318dbf0b
X-Google-Thread: 110694,171d4f54318dbf0b
X-Google-Thread: 107cee,171d4f54318dbf0b
X-Google-Attributes:
gidfc2a5,gid111d0a,gid108ff0,gid110694,gid107cee,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-mail
From: Mad Scientist Jr <usenet_daughter@yahoo.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,alt.music.makers.electronic,rec.music.makers.guitar,sci.electronics.misc
Subject: Re: radio shielding?
Date: 31 May 2007 07:23:48 -0700
Organization: http://groups.google.com
Lines: 36
Message-ID: <1180621428.299227.102980@q75g2000hsh.googlegroups.com>
References: <1180545505.579295.88730@g4g2000hsf.googlegroups.com>
   <465ec15f.1000289@news.sysmatrix.net>
   <1180616907.495853.12960@a26g2000pre.googlegroups.com>
NNTP-Posting-Host: 12.150.126.82
Mime-Version: 1.0

Content-Type: text/plain; charset="iso-8859-1"
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 31 May 2007 14:23:48 +0000 (UTC)
In-Reply-To: <1180616907.495853.12960@a26g2000pre.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.4)
Gecko/20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q75g2000hsh.googlegroups.com; posting-host=12.150.126.82;
   posting-account=hqcX8A0AAABKXTlWUU3mGm_QMZM61ECd
Xref: g2news1.google.com rec.radio.amateur.homebrew:13381
sci.electronics.basics:54354 alt.music.makers.electronic:1403
rec.music.makers.guitar:28216 sci.electronics.misc:15733

Thanks for your reply - that's worth a try.
I was going to try wiring in a foot switch to turn the gain on & off
anyway.

By the way do you know a good online place to order shielded wire
(either stereo or mono)?
I had an old cheap shielded guitar cable I was going to cannibalize
for this, but
I would prefer to find wire that isn't too thick & easy to work with.

On May 31, 9:08 am, MadEngineer <glenn.b.di...@gmail.com> wrote:
> You failed to mention what you have on the input, which can be a
> factor--if you disconnect any input cables, short your input to ground
> right at the amp and the unwanted stuff is still there, is is very
> possible your unwanted signals are coming through the 5K gain pot and
> its leads. Signals on these leads directly modulate the output. Try
> this:
>
> Replace the 5K pot with a resistor (say, 1K--the lower the R the
> higher the gain) soldered right on the board. Disconnect the pot
> wires completely. If that cures your problem consider eliminating
> that gain control and just using the volume pot. Otherwise, you could
> try shielding those wires, with the shield tied to signal ground,
> though I'm not completely sure that would work. Use stereo shielded
> cable with both wires in the same shield if possible. Twisting the
> two wires together may help.
>
> You can also try Mr. Masta's RF bypassing, only on the gain pot inputs
> as well.
>
> GL
> Glenn

```
From -6745300710223155719
X-Google-Thread: fc2a5,171d4f54318dbf0b
X-Google-Thread: 111d0a,171d4f54318dbf0b
X-Google-Thread: 108ff0,171d4f54318dbf0b
X-Google-Thread: 110694,171d4f54318dbf0b
X-Google-Thread: 107cee,171d4f54318dbf0b
X-Google-Attributes:
gidfc2a5,gid111d0a,gid108ff0,gid110694,gid107cee,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
g4g2000hsf.googlegroups.com!not-for-mail
From: Mad Scientist Jr <usenet_daughter@yahoo.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,alt.music.makers.electronic,rec.
music.makers.guitar,sci.electronics.misc
Subject: Re: radio shielding?
Date: 31 May 2007 07:38:00 -0700
Organization: http://groups.google.com
Lines: 18
Message-ID: <1180622280.463445.204170@g4g2000hsf.googlegroups.com>
References: <1180545505.579295.88730@g4g2000hsf.googlegroups.com>
   <465ec15f.1000289@news.sysmatrix.net>
   <1180616907.495853.12960@a26g2000pre.googlegroups.com>
NNTP-Posting-Host: 12.150.126.82
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180622290 11899 127.0.0.1 (31 May 2007 14:38:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 31 May 2007 14:38:10 +0000 (UTC)
In-Reply-To: <1180616907.495853.12960@a26g2000pre.googlegroups.com>
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Gecko/20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=12.150.126.82;
   posting-account=hqcX8A0AAABKXTlWUU3mGm_QMZM61ECd
Xref: g2news1.google.com rec.radio.amateur.homebrew:13382
sci.electronics.basics:54357 alt.music.makers.electronic:1404
rec.music.makers.guitar:28217 sci.electronics.misc:15735
```

I am just plugging an electric guitar directly into the input. I don't
have the actual circuit here with me right now but the schematic is
here (see page 5):

http://makezine.com/09/crackerboxamp/

I believe the + of the input goes to a 0.01 uF capacitor, the - goes
to ground.

BTW can anyone explain how to add an XLR out (either balanced or
unbalanced) to directly connect the amp to a mixer or recorder?

Thanks

On May 31, 9:08 am, MadEngineer <glenn.b.di...@gmail.com> wrote:
> You failed to mention what you have on the input, which can be a
> factor

From -1027812146859390524
X-Google-Thread: fc2a5,f72ef04af3ab7dd9
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
From: "Alan Taylor" <adt1944@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <f2aprl$kba$1@news04.infoave.net>
Subject: Re: Homebrew Keyer
Date: Fri, 1 Jun 2007 14:27:45 +0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Original-NNTP-Posting-Host: 58.178.121.164
Message-ID: <465fbc6b$1_1@news.iprimus.com.au>
Organization: iPrimus Customer - reports relating to abuse should be sent to abuse@iprimus.com.au
X-Original-NNTP-Posting-Host: 127.0.0.1
Lines: 14
NNTP-Posting-Host: 203.134.67.67
X-Trace: 1180682508 un-2park-reader-01.sydney.pipenetworks.com.au 1186 203.134.67.67:1951
X-Complaints-To: Abuse, including message IDs to abuse@pipenetworks.com
Path: g2news1.google.com!news1.google.com!news.glorb.com!quokka.wn.com.au!figjam.pipenetworks.com!token.pipenetworks.com!218.100.2.59.MISMATCH!not-for-mail
Xref: g2news1.google.com rec.radio.amateur.homebrew:13383

I built the N0XAS PIC keyer kit. It works well.

73 Alan VK6BN

"Jim Barnard" <jbarnard@ftc-i.net> wrote in message
news:f2aprl$kba$1@news04.infoave.net...
> Does anyone have a schematic for a nice homebrew keyer that can be made
> for a reasonable price. I would like to make my own.
> Thanks,
>
> Jim Barnard, KI4VGK
>

From -4165637240981814983
X-Google-Thread: fc2a5,171d4f54318dbf0b

```
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 01 Jun 2007 05:20:41 -0500
Date: Fri, 01 Jun 2007 11:20:41 +0100
From: charlie <wehatespam@wymsey.co.uk>
User-Agent: Thunderbird 1.5.0.10 (X11/20060911)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: radio shielding?
References: <1180545505.579295.88730@g4g2000hsf.googlegroups.com>
<465ec15f.1000289@news.sysmatrix.net>
<1180616907.495853.12960@a26g2000pre.googlegroups.com>
<1180622280.463445.204170@g4g2000hsf.googlegroups.com>
In-Reply-To: <1180622280.463445.204170@g4g2000hsf.googlegroups.com>
X-Enigmail-Version: 0.94.2.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-ID: <PuCdnSorG5xkb8LbnZ2dnUVZ8tijnZ2d@pipex.net>
Lines: 45
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2ibYl2r7/yjx6czDmvWAUnTDJxo=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13384
```

Mad Scientist Jr wrote:

> I am just plugging an electric guitar directly into the input. I don't have the actual circuit here with me right now but the schematic is here (see page 5):
>
> http://makezine.com/09/crackerboxamp/
>
> I believe the + of the input goes to a 0.01 uF capacitor, the - goes to ground.
>
> BTW can anyone explain how to add an XLR out (either balanced or unbalanced) to directly connect the amp to a mixer or recorder?
>
><SNIP>

First of all, any sensitive amplifier needs to be build in a metal box no bigger than is necessary. The box acts as a screen so you have no need to use screen leads inside the box. The circuit you

have used has no RF decoupling at the input nor on the supply (the
100uf capacitor on the supply will not decouple very well at RF), I
would put a 10n ceramic capacitor across it and, for good measure, a
100n across that!

At the input I would put something like 1n to ground (if your input
is a guitar then the pickup will be low impedance so there won't be
any effect on it's output. I would also be tempted to put an RF
choke in series with the input.

If, as I suspect, you are picking up AM broadcasts coiling the input
cable a few times at the input won't have much effect.

These links may be useful:

http://www.rane.com/note151.html

http://www.benchmarkmedia.com/caig/html/caig06.html

Good luck!

Charlie.

--
M0WYM
www.radiowymsey.org

From 8498371236178252468
X-Google-Thread: fc2a5,a976d85b2521bb57,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i13g2000prf.googlegroups.com!not-for-mail
From: Nelly <cjnelson@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: variable HF oscillator
Date: Fri, 01 Jun 2007 18:42:56 -0000
Organization: http://groups.google.com
Lines: 9
Message-ID: <1180723376.331824.177290@i13g2000prf.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 1 Jun 2007 18:42:57 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.4) Gecko/20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i13g2000prf.googlegroups.com; posting-host=66.1.140.104;

posting-account=nz6mlg0AAACK--5ihdievGxs5S37T-7l
Xref: g2news1.google.com rec.radio.amateur.homebrew:13385

I need to vary the frequency of operation of a transceiver IC from 7MHz to 9MHz. The oscillator needs to feed into the crystal oscillator input and crystal oscillator output pins of the IC (the current design does not have a variable oscillator and is just using a crystal). Ideally I would like to control the frequency of the oscillator using the PWM of a micro controller (unfortunately the current micro does not have a DAC). Any ideas on the best way to do this?

From 8949850444919437362
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!news.cs.univ-paris8.fr!feeder.news.heanet.ie!newsfeed.esat.net!reader01.news.esat.net!not-for-mail
From: zpk_pkearn_class_a_licensee@aruba.eircom.india.net.com (zpk)
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Car and Deep Cycle Battery FAQ
Date: Fri, 01 Jun 2007 19:44:05 GMT
Organization: 11165--the-number-of-the-stupido
Lines: 11
Message-ID: <466076bf.442271@news.iol.ie>
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net> <1180583642.877955.169570@o5g2000hsb.googlegroups.com> <z5adnVd7TNWBPsPbnZ2dnUVZ8vmdnZ2d@pipex.net>
Reply-To: deaf-people-are-deaf--they-are-not-blind-or-stupid@hearing-people-not-so-clever.com
NNTP-Posting-Host: dialup0106.ts551.cwt.esat.net
X-Trace: reader01.news.esat.net 1180726926 32012 193.203.140.106 (1 Jun 2007 19:42:06 GMT)
X-Complaints-To: abuse@esat.net
NNTP-Posting-Date: Fri, 1 Jun 2007 19:42:06 +0000 (UTC)
X-Newsreader: Forte Free Agent 1.21/32.243
Xref: g2news1.google.com uk.radio.amateur:114899 rec.radio.amateur.misc:36224 rec.radio.amateur.homebrew:13386

Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote:

> However car batteries can be used very effectively for amateur radio
> operations by using them as a peak current provider in conjunction with

a certain g7 used to charge his batteries on night-rate electricity and then run his bbs off them during the day.

and that was in the mid 90's.

From -4407413483412918325
X-Google-Thread: fc2a5,785aad2ebde60da8,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!m36g2000hse.googlegroups.com!not-for-mail
From: pawludebono@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: RF Phase shift
Date: Fri, 01 Jun 2007 12:58:13 -0700
Organization: http://groups.google.com
Lines: 7
Message-ID: <1180727893.331574.77330@m36g2000hse.googlegroups.com>
NNTP-Posting-Host: 195.158.105.206
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180727893 11674 127.0.0.1 (1 Jun 2007 19:58:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 1 Jun 2007 19:58:13 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m36g2000hse.googlegroups.com; posting-host=195.158.105.206;
   posting-account=5QkZXg0AAACFJ7xrYBElhG6UOdy0jIV9
Xref: g2news1.google.com rec.radio.amateur.homebrew:13387

Hi all,

I am looking for software that calculates 90 deg RF phase shift
networks. Anyone can help please

Paul

From 8512424348115105417
X-Google-Thread: fc2a5,a36e0230417ab37b,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!u30g2000hsc.googlegroups.com!not-for-mail
From: pawludebono@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: DDS VFO
Date: Fri, 01 Jun 2007 13:04:42 -0700
Organization: http://groups.google.com
Lines: 2
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 1 Jun 2007 20:04:42 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: u30g2000hsc.googlegroups.com; posting-host=195.158.105.206;
   posting-account=5QkZXg0AAACFJ7xrYBElhG6UOdy0jIV9
Xref: g2news1.google.com rec.radio.amateur.homebrew:13388

Where can I buy a ready built synstesised 1-30 Mhz vfo ???



From -4737349558178011224
X-Google-Thread: fc2a5,a36e0230417ab37b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 01 Jun 2007 17:33:27 -0500
Date: Fri, 01 Jun 2007 23:33:25 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.0 (X11/20070522)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS VFO
References: <1180728282.446980.33860@u30g2000hsc.googlegroups.com>
In-Reply-To: <1180728282.446980.33860@u30g2000hsc.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <5bKdnWovtewqA_3bRVnysAA@pipex.net>
Lines: 12
NNTP-Posting-Host: 81.178.94.122
X-Trace: sv3-nUCkzpUfZ5sk4Cm3BEP9CUcH6eFMmMrKuQNQ9Sy/
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ld07oH+gXlkKfw==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13389

pawludebono@gmail.com wrote:
> Where can I buy a ready built synstesised 1-30 Mhz vfo ???
```

>

This is an NG for radio amateurs who are interested in building their
own equipment including equipment from kits   NOT for buying ready
built equipment.
Conclusion : Wrong NG for you.
  Advice to you : Do a Google

Frank   GM0CSZ / KN6WH

From 7777823052765624497
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 01 Jun 2007 17:39:46 -0500
Date: Fri, 01 Jun 2007 23:39:39 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.0 (X11/20070522)
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Car and Deep Cycle Battery FAQ
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>
<1180583642.877955.169570@o5g2000hsb.googlegroups.com>
<z5adnVd7TNWBPsPbnZ2dnUVZ8vmdnZ2d@pipex.net> <466076bf.442271@news.iol.ie>
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Message-ID: <MuydnY4metuuPf3bRVnyjwA@pipex.net>
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X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com uk.radio.amateur:114922 rec.radio.amateur.misc:36225
rec.radio.amateur.homebrew:13390

>> However car batteries can be used very effectively for amateur radio
>> operations by using them as a peak current provider in conjunction with
>

```
> A certain  g7  used to charge his batteries on night-rate electricity and
> then run his bbs off them during the day.
>
> and that was in the mid 90's.
==============================
Above info is possibly NOT relevant . The topic is : Running amateur
radio equipment from a CAR battery.

Frank   GM0CSZ / KN6WH


From 7929238785600652728
X-Google-Thread: fc2a5,a36e0230417ab37b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
news.litech.org!not-for-mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS VFO
Date: Fri, 1 Jun 2007 23:02:33 +0000 (UTC)
Organization: Me?
Lines: 28
Sender: mikea@mikea.ath.cx
Message-ID: <f3q8i9$bd9$1@puck.litech.org>
References: <1180728282.446980.33860@u30g2000hsc.googlegroups.com>
<5bKdnWovtewqA_3bRVnysAA@pipex.net>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1180738953 11689 68.15.203.64 (1 Jun 2007 23:02:33 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Fri, 1 Jun 2007 23:02:33 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news1.google.com rec.radio.amateur.homebrew:13391

On Fri, 01 Jun 2007 23:33:25 +0100, Highland Ham
<abcgm0csz.kn6whxyz@dsl.pipex.com> wrote in <5bKdnWovtewqA_3bRVnysAA@pipex.net>:
> pawludebono@gmail.com wrote:
>> Where can I buy a ready built synstesised 1-30 Mhz vfo ???
>>
> ------------------
> This is an NG for radio amateurs who are interested in building their
> own equipment including equipment from kits    NOT for buying ready
> built equipment.
> Conclusion : Wrong NG for you.
>  Advice to you : Do a Google

I'll differ with you, OM.

He may want to build something that, except for the DDS VFO, is entirely
within his capabilities. If he's homebrewing something less complex, and
```

finds the VFO to exceed his skillset (as it might exceed mine), his query is entirely on-topic.

pawludebono@gmail.com,

Don't let the grouches turn you off to homebrewing. They're everywhere. Sometimes -- particularly when my back's bothering me -- I'm one of 'em, but I try not to be.

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From -3272507979930146352
X-Google-Thread: fc2a5,a976d85b2521bb57
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!news.astraweb.com!router1.astraweb.com!sn-xt-sjc-05!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: variable HF oscillator
Date: Fri, 01 Jun 2007 19:02:14 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1361cpn7g3s5v54@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <1180723376.331824.177290@i13g2000prf.googlegroups.com>
In-Reply-To: <1180723376.331824.177290@i13g2000prf.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 30
Xref: g2news1.google.com rec.radio.amateur.homebrew:13392

Nelly wrote:

> I need to vary the frequency of operation of a transceiver IC from 7MHz to 9MHz. The oscillator needs to feed into the crystal oscillator input and crystal oscillator output pins of the IC (the current design does not have a variable oscillator and is just using a crystal). Ideally I would like to control the frequency of the oscillator using the PWM of a micro controller (unfortunately the current micro does not have a DAC). Any ideas on the best way to do this?
>

I am currently doing a project which uses 8-bit PWM to set the freq. of

a L.O. across a 250Hz range; I use a 3-bit DAC to select one of eight
250Hz segments first. The 1st L.O. is a PLL with a 2Khz step size
and 16-bit resolution. The DAC and PWM outputs and a DC offset for
centering are summed and then drive a dual varactor to pull the
xtal of the 2nd L.O. (at 56,305,000Hz center). This gives me 1Hz
resolution.

Your 2MHz range would require a 21-bit PWM for 1Hz VFO resolution
(after scaling); a 16-bit PWM would give you about 30Hz resolution.

To me, a workable solution would involve a combination of PLL and PWM
as I have done (from what I have read I would avoid DDS for reasons
of noise).

Regards,

Michael

From 4152306097024238196
X-Google-Thread: fc2a5,3303cc0d209adeff
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out02b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe14.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <134vkhon42648a0@corp.supernews.com>
<1180325069.420988.91950@h2g2000hsg.googlegroups.com> <1q6dnbbDR-jdXMfbnZ2dnUVZ8t-
nnZ2d@pipex.net> <0xA6i.136748$_c5.91625@attbi_s22>
<v4qdncWPZcDWd8fbnZ2dnUVZ8qKvnZ2d@pipex.net> <UnD6i.75613$n_.298@attbi_s21>
<Vsadnfg1mcOnj8bbnZ2dnUVZ8sylnZ2d@pipex.net>
Subject: Re: VFO.... Zero TC caps
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <LT28i.796$3L1.104@newsfe14.lga>
Date: Fri, 1 Jun 2007 20:31:20 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe14.lga 1180744299 68.0.230.122 (Fri, 01 Jun 2007 17:31:39 MST)
NNTP-Posting-Date: Fri, 01 Jun 2007 17:31:39 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13393

"Highland Ham" <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote in message

news:Vsadnfg1mcOnj8bbnZ2dnUVZ8sylnZ2d@pipex.net...
> > =======
> The Toko inductor with adjustable core is a canned component frequently
> used by homebrewers and still available . It comes in 3 model for various
> frequency ranges. In Europe (and that includes Britain ;)) it is
> particularly popular by the QRP community.
>
 > Frank   GM0CSZ / KN6WH

I'd avoid using any "canned" Toko style inductors with adjustable cores. The most stable coil designs don't use adjustable cores, which are an invitation to thermal instabilities. Especially ferrites or the types with cups.

Pete k1zjh

From 2023844737537034782
X-Google-Thread: fc2a5,5502aaea195b61c7,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!out04b.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!news-in-02.newsfeed.easynews.com!easynews.com!easynews!sn-xt-sjc-03!sn-xt-sjc-09!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Question for the group...
Date: Fri, 1 Jun 2007 19:35:00 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1361eplquqruj46@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Complaints-To: abuse@supernews.com
Lines: 22
Xref: g2news1.google.com rec.radio.amateur.homebrew:13394

Has anyone ever heard of anything like the experiment I am currently concocting? I have taken an Amidon T50-2 toroid form and wrapped it with 57 turns of #32 enamaled wire, giving it an inductance of 16 uH, then wrapped over that layer with 150 turns of #36 wire. The first layer (16 uH) I am using for tuning my home-built active antenna, and am relying on resonance to send a signal through the outer layer, which I *think* should act like a step-up transformer for that signal. This layer is grounded on one end, and feeds into the first stage of amplification on the other. And it does seem to work, only the toroid seems to resonate at around 10 MHz with my tuning capacitor set to 114 pF, when it should (I thought) resonate at something lower, like around 3.7 MHz.

And like I said, the step-up transformer part does seem to work, but I can't tune as low as I would like. Has anyone ever hear of anyone else trying anything like this? If so, what is it called, and where can I find info on the subject?

Many thanks for any help...

Dave

From -4934497364377057084
X-Google-Thread: fc2a5,5502aaea195b61c7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out01b.usenetserver.com!news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe14.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1361eplquqruj46@corp.supernews.com>
Subject: Re: Question for the group...
Lines: 37
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <X%28i.798$3L1.236@newsfe14.lga>
Date: Fri, 1 Jun 2007 20:40:04 -0400
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X-Trace: newsfe14.lga 1180744823 68.0.230.122 (Fri, 01 Jun 2007 17:40:23 MST)
NNTP-Posting-Date: Fri, 01 Jun 2007 17:40:23 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13395

"Dave" <db5151@hotmail.com> wrote in message
news:1361eplquqruj46@corp.supernews.com...
> Has anyone ever heard of anything like the experiment I am currently
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>
> Many thanks for any help...
>
> Dave

What are you trying to match? I suspect your secondary winding has a lot of interwinding capacity that might be affecting it's operation. For a ""step up", it might be easier, and more efficient, just to design a pi or L matching network to do the transformation... Or, use tapped windings on the coil used in the tuned circuit. Low impedance at a lower tap point, impedance and voltage will increase on higher taps..

Pete
>
>

From -3190573614878625510
X-Google-Thread: fc2a5,5502aaea195b61c7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder3.cambrium.nl!feeder4.cambrium.nl!feeder2.cambrium.nl!feed.tweaknews.nl!border2.nntp.ams.giganews.com!nntp.giganews.com!sn-xt-ams-06!sn-xt-ams-03!sn-post-ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question for the group...
Date: Fri, 1 Jun 2007 20:42:35 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1361ioeejckrv94@corp.supernews.com>
References: <1361eplquqruj46@corp.supernews.com> <X%28i.798$3L1.236@newsfe14.lga>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Complaints-To: abuse@supernews.com
Lines: 65
Xref: g2news1.google.com rec.radio.amateur.homebrew:13396

"Uncle Peter" <radioconnection@cox.net> wrote in message
news:X%28i.798$3L1.236@newsfe14.lga...
>
> "Dave" <db5151@hotmail.com> wrote in message
> news:1361eplquqruj46@corp.supernews.com...
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>>
>> Many thanks for any help...
>>
>> Dave
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> What are you trying to match? I suspect your secondary winding has
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> For a ""step up", it might be easier, and more efficient, just to design
> a pi or L matching network to do the transformation... Or, use
> tapped windings on the coil used in the tuned circuit. Low impedance
> at a lower tap point, impedance and voltage will increase on higher
> taps..
>
> Pete
>>
>>

Hello Pete,

I'm not actually trying to "match" anything, I am attempting to step up the
voltage of the incoming signal from my antenna (a 110' longwire use for SWL)
before passing it to my first stage of amplification. I think I see what
you mean however, this sounds like an impedance matching setup. And I
hadn't thought about the interwinding capacitance. Obviously, I am still
fairly new at this.

I saw a schematic in Joe Carr's Secrets of RF Circuit Design that used a
step-up transformer before the first stage of amplification, and that gave
me the idea for using my tuning inductors (toroids) with a second winding
that might act as a step-up transformer. And it does seem to work, just not
withing the frequency range I was expecting. My goal is to pick up Voice of
Korea here in Texas, at some level of intelligability. And I am a lot

closer to that than I was with the plain-jane tuning setup. Today I picked up their 1500 UTC broadcast, which is something I have never been able to do before. (Talking about how happy Korean children are...) It is still far from perfect however...

Thanks for your input. More food for thought... With time, maybe I'll get what I am looking for.

Dave

From 5412907374079636146
X-Google-Thread: fc2a5,5502aaea195b61c7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1361eplquqruj46@corp.supernews.com> <X%28i.798$3L1.236@newsfe14.lga> <1361ioeejckrv94@corp.supernews.com>
Subject: Re: Question for the group...
Lines: 81
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <lc48i.401567$2Q1.10224@newsfe16.lga>
Date: Fri, 1 Jun 2007 22:01:34 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe16.lga 1180749713 68.0.230.122 (Fri, 01 Jun 2007 19:01:53 MST)
NNTP-Posting-Date: Fri, 01 Jun 2007 19:01:53 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13397

"Dave" <db5151@hotmail.com> wrote in message
news:1361ioeejckrv94@corp.supernews.com...
>
> "Uncle Peter" <radioconnection@cox.net> wrote in message
> news:X%28i.798$3L1.236@newsfe14.lga...
>>
>> "Dave" <db5151@hotmail.com> wrote in message
>> news:1361eplquqruj46@corp.supernews.com...
>>> Has anyone ever heard of anything like the experiment I am currently
>>> concocting? I have taken an Amidon T50-2 toroid form and wrapped it

>>> with 57 turns of #32 enamaled wire, giving it an inductance of 16 uH,
>>> then wrapped over that layer with 150 turns of #36 wire. The first
>>> layer (16 uH) I am using for tuning my home-built active antenna, and am
>>> relying on resonance to send a signal through the outer layer, which I
>>> *think* should act like a step-up transformer for that signal. This
>>> layer is grounded on one end, and feeds into the first stage of
>>> amplification on the other. And it does seem to work, only the toroid
>>> seems to resonate at around 10 MHz with my tuning capacitor set to 114
>>> pF, when it should (I thought) resonate at something lower, like around
>>> 3.7 MHz.
>>>
>>> And like I said, the step-up transformer part does seem to work, but I
>>> can't tune as low as I would like. Has anyone ever hear of anyone else
>>> trying anything like this? If so, what is it called, and where can I
>>> find info on the subject?
>>>
>>> Many thanks for any help...
>>>
>>> Dave
>>
>> What are you trying to match? I suspect your secondary winding has
>> a lot of interwinding capacity that might be affecting it's operation.
>> For a ""step up", it might be easier, and more efficient, just to design
>> a pi or L matching network to do the transformation... Or, use
>> tapped windings on the coil used in the tuned circuit. Low impedance
>> at a lower tap point, impedance and voltage will increase on higher
>> taps..
>>
>> Pete
>>>
>>>
>
> Hello Pete,
>
> I'm not actually trying to "match" anything, I am attempting to step up
> the voltage of the incoming signal from my antenna (a 110' longwire use
> for SWL) before passing it to my first stage of amplification. I think I
> see what you mean however, this sounds like an impedance matching setup.
> And I hadn't thought about the interwinding capacitance. Obviously, I am
> still fairly new at this.
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> step-up transformer before the first stage of amplification, and that gave
> me the idea for using my tuning inductors (toroids) with a second winding
> that might act as a step-up transformer. And it does seem to work, just
> not withing the frequency range I was expecting. My goal is to pick up
> Voice of Korea here in Texas, at some level of intelligability. And I am
> a lot closer to that than I was with the plain-jane tuning setup. Today I
> picked up their 1500 UTC broadcast, which is something I have never been
> able to do before. (Talking about how happy Korean children are...) It
> is still far from perfect however...
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> Thanks for your input. More food for thought... With time, maybe I'll

> get what I am looking for.
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>
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For a broadband step up, you'd be better off using a ferrite core untuned transformer or balun.

Are you using this between the coax and a coax leadin? Or, between the antenna and RF antenna jack on the receiver?

Pete

Pete

```
From -2719064160678524723
X-Google-Thread: fc2a5,c4893bbcc3553365,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q19g2000prn.googlegroups.com!not-for-
mail
From:  bernado <werner-grosse@web.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: ECHOLINK - attacks by P2P connection ?
Date: Fri, 01 Jun 2007 19:17:16 -0700
Organization: http://groups.google.com
Lines: 10
Message-ID: <1180750636.231022.61960@q19g2000prn.googlegroups.com>
NNTP-Posting-Host: 222.123.45.160
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180750636 8582 127.0.0.1 (2 Jun 2007 02:17:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 2 Jun 2007 02:17:16 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; de; rv:1.8.1.4) Gecko/
20070515 Firefox/2.0.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q19g2000prn.googlegroups.com; posting-host=222.123.45.160;
   posting-account=BA58SA0AAADgJBK95WtfKImV2jnboHnj
Xref: g2news1.google.com rec.radio.amateur.homebrew:13398
```

Are there any experience with attacks on ECHOLINK Ports 5198 - 5200 by P2P connection ?

Here something of similiar
cases..

http://www.pcwelt.de/news/sicherheit/81814/index.html http://www.pcwelt.de/news/sicherheit/81814/index.html?NLC-Newsletter&id=81814

```
From -6372134771532119047
X-Google-Thread: fc2a5,5502aaea195b61c7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-04!sn-xt-sjc-11!sn-xt-sjc-09!
sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question for the group...
Date: Fri, 1 Jun 2007 22:31:45 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1361p54t5hfsf39@corp.supernews.com>
References: <1361eplquqruj46@corp.supernews.com> <X%28i.798$3L1.236@newsfe14.lga>
<1361ioeejckrv94@corp.supernews.com> <lc48i.401567$2Q1.10224@newsfe16.lga>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Complaints-To: abuse@supernews.com
Lines: 102
Xref: g2news1.google.com rec.radio.amateur.homebrew:13399


"Uncle Peter" <radioconnection@cox.net> wrote in message
news:lc48i.401567$2Q1.10224@newsfe16.lga...
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> Are you using this between the coax and a coax leadin? Or, between the

> antenna and RF antenna jack on the receiver?
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>
> Pete
>

I am doing this inside of the active antenna case, using the coils used for tuning the tank circuit. It's really kind of an unusual setup, I gather. I am trying to use the resonance of the coil, which is in parrallel with my tuning capacitor, to set up a sympathetic signal in the second layer on that same coil, and feed this sympathetic signal to my first stage of amplification. That's the step-up transformer part. The whole thing just resonates at a higher frequency than I anticipated. Thus my original question: has anyone heard of this before, and what is it called/where can I find more info on the subject. Fortunately it still allows me to pull in my target shortwave station, but it's at the bottom of the tuning range rather than the top.

Thanks for your help,

Dave

From 5747301189900606358
X-Google-Thread: fc2a5,c4893bbcc3553365
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!fu-berlin.de!uni-berlin.de!news.dfncis.de!not-for-mail
From: Fabian Kurz <usenet@fkurz.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ECHOLINK - attacks by P2P connection ?
Date: 2 Jun 2007 03:46:03 GMT
Lines: 29
Sender: Fabian Kurz <dj1yfk@dl0tud.tu-dresden.de>
Message-ID: <5cc7frF30104kU1@mid.dfncis.de>
References: <1180750636.231022.61960@q19g2000prn.googlegroups.com>
X-Trace: news.dfncis.de GiVq+vygowcIGzwkSbOuDABhWspKgmtxZVpzS2riO+SdD8
X-Orig-Path: not-for-mail
User-Agent: tin/1.6.2-20030910 ("Pabbay") (UNIX) (FreeBSD/5.3-RELEASE (i386))
Xref: g2news1.google.com rec.radio.amateur.homebrew:13400

bernado wrote:
> Are there any experience with attacks on ECHOLINK Ports 5198 - 5200 by
> P2P connection ?

That makes no sense to me.

> Here something of similiar
> cases...

>
> http://www.pcwelt.de/news/sicherheit/81814/index.html
> http://www.pcwelt.de/news/sicherheit/81814/index.html?NLC-Newsletter&id=81814

That's comparing apples and bananas. These attacks exploit a
certain security hole in a certain piece of software (in this
case the dc++ client, whatever that is).

While the Echolink software *may* have some kind of security
problems of its own aswell, it's very unlikely that crackers try
to exploit them. There are (compared to P2P stuff) just not
enough users to make it worthwhile.

In any case, the attacks on this dc++ client, even if they are
operating on the very same port as Echolink, are absolutely no
danger or security risk for the Echolink software.

73,
--
Fabian Kurz, DJ1YFK * Dresden, Germany * http://fkurz.net/
Online Log: http://dl0tud.tu-dresden.de/~dj1yfk/log.html

From 1997076804117152969
X-Google-Thread: fc2a5,785aad2ebde60da8
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 01 Jun 2007 23:46:17 -0500
From: "Jim" <kill-spam@no-spam.org>
Newsgroups: rec.radio.amateur.homebrew
References: <1180727893.331574.77330@m36g2000hse.googlegroups.com>
Subject: Re: RF Phase shift
Date: Fri, 1 Jun 2007 21:46:17 -0700
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 000746-2, 06/01/2007), Outbound message
X-Antivirus-Status: Clean
Message-ID: <PLmdnUxZBuSHa_3bnZ2dnUVZ_u6rnZ2d@comcast.com>
Lines: 33
NNTP-Posting-Host: 67.180.121.34
X-Trace: sv3-SRoEqwwOEzqUpaQNNMR7IYhB1k4wz+4o9H/
ugJB59BggC3+Fa8Hqu5laO+e9DazpuzHyoMnDHmxxuLx!JR2mBY/
jTPXyH1G4K6e4TQPROdcGvVMLzMBRKk14mQCjRZCwL7qi2KFyM2WsrHYe+WTBl5GKR8P7!
KthhmRlT2dzUNCzuXmUOLeur9a1x0A==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers

X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13401

Here is a website that discusses a toroid RF phase shift which works fairly well.

http://www.seboldt.net/k0jd/phase_notes.html

==

Oh yes, in answer to your other post regarding DDS, look at

http://home.comcast.net/~aa0zz/index.html

This website has a DDS VFO which also provides the 90 degree split.   It uses the AD9854 and it is reasonably clean, but it does have low level DDS spurs.   It is not exactly low cost, but you do get a reasonably complete design, including the rotary shaft tuning dial interface for controlling the DDS.

Jim Pennell
N6BIU

--

21:40 Pacific Time Zone
Jun 1 2007

International Time
04:40 UTC
02.06.2007

From -4316126641218634349
X-Google-Thread: fc2a5,e1d3305d8ab47b5f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out02b.usenetserver.com!news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!news-in-02.newsfeed.easynews.com!easynews.com!easynews!sn-xt-sjc-03!sn-xt-sjc-08!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: A Homebrewer's Blog
Date: Fri, 01 Jun 2007 23:06:08 -0600

Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1361umcppdjfcf3@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <1180328007.878025.91940@n15g2000prd.googlegroups.com>
<135ndf2j1nr6e9a@corp.supernews.com> <9rT6i.7365$4S5.3627@trndny01>
In-Reply-To: <9rT6i.7365$4S5.3627@trndny01>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 29
Xref: g2news1.google.com rec.radio.amateur.homebrew:13402

W3JDR wrote:

> Sounds like the rumblings of a grumpy, stodgy old fart!

Could be but the rumblings happen to be my opinion and the man asked for opinions.

No matter how wonderful a blog could be, the problem still remains of getting people to read them. Everyone knows how to find interest groups on usenet and yahoo but how the hell does anyone find his blog a week after he announces it? It vanishes into the blogosphere. There are millions of them (perhaps billions) out there but only a minuscule fraction of that number with any following at all and even fewer with lots of readers.

His key words would be "home brewing".... Google it and see how long it takes to find him unless you happen to know his name but that's cheating. Actually, you will find hundreds of sites that sell our beer making equipment before you get to any ham radio sites.

I did it and cheated. Turns out he has lots of web pages so it makes the blog even more pointless. How is it any better than a web page? The one or two comments certainly do not justify the extra work... does it?

js

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

From -8923469543585801787
X-Google-Thread: fc2a5,a36e0230417ab37b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.germany.com!
feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Re: DDS VFO
Message-ID: <nsr163tdsu5lkcjbmsj8ml8j8umv4u93f7@4ax.com>
References: <1180728282.446980.33860@u30g2000hsc.googlegroups.com>
<5bKdnWovtewqA_3bRVnysAA@pipex.net>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 22
Date: Sat, 02 Jun 2007 08:45:00 +0300
NNTP-Posting-Host: 195.197.166.57
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1180763088 195.197.166.57 (Sat, 02 Jun 2007
08:44:48 EEST)
NNTP-Posting-Date: Sat, 02 Jun 2007 08:44:48 EEST
Organization: Saunalahti Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:13403

On Fri, 01 Jun 2007 23:33:25 +0100, Highland Ham
<abcgm0csz.kn6whxyz@dsl.pipex.com> wrote:

>pawludebono@gmail.com wrote:
>> Where can I buy a ready built synstesised 1-30 Mhz vfo ???
>>
>------------------
>This is an NG for radio amateurs who are interested in building their
>own equipment including equipment from kits    NOT for buying ready
>built equipment.
>Conclusion : Wrong NG for you.
>  Advice to you : Do a Google

If someone wants to experiment with a high (power)level mixer, I do
not understand, why that person would have to suffer all the problems
of generating a stable specific frequency.

In fact getting a good frequency source cheaply might in fact be a
good thing to encourage people to do some home brewing.

Paul OH3LWR




From 3863521973024935203
X-Google-Thread: fc2a5,a36e0230417ab37b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.germany.com!newsfeed.stueberl.de!
newsfeed.vmunix.org!peer-uk.news.demon.net!kibo.news.demon.net!news.demon.co.uk!
demon!g3ohx.demon.co.uk!IanJacksonRemoveThisBit
From: Ian Jackson <IanJacksonRemoveThisBit@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS VFO
Date: Sat, 2 Jun 2007 08:16:21 +0100
```

```
Lines: 19
Message-ID: <lx3fojEFlRYGFwUE@g3ohx.demon.co.uk>
References: <1180728282.446980.33860@u30g2000hsc.googlegroups.com>
 <5bKdnWovtewqA_3bRVnysAA@pipex.net>
Reply-To: Ian Jackson <IanJackson@REMOVE-THIS-BITg3ohx.demon.co.uk>
NNTP-Posting-Host: g3ohx.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1180768585 12425 80.176.138.122 (2 Jun 2007 07:16:25
GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Sat, 2 Jun 2007 07:16:25 +0000 (UTC)
User-Agent: Turnpike/6.06-S (<D3RqWSoPKPDGROCjBVGoeQM3+x>)
Xref: g2news1.google.com rec.radio.amateur.homebrew:13404

In message <5bKdnWovtewqA_3bRVnysAA@pipex.net>, Highland Ham
<abcgm0csz.kn6whxyz@dsl.pipex.com> writes
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>
>Frank   GM0CSZ / KN6WH
>

You'll be telling him next to make his own resistors and capacitors!
Ian.
--



From 366149439763772364
X-Google-Thread: fc2a5,a36e0230417ab37b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!elnk-atl-nf1!newsfeed.earthlink.net!
stamper.news.atl.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!90335db4!not-for-mail
From: John Ferrell <johnferrell@sprintmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS VFO
Message-ID: <8sn263l354f8ge584idtafb2rbbt8fade8@4ax.com>
References: <1180728282.446980.33860@u30g2000hsc.googlegroups.com>
<5bKdnWovtewqA_3bRVnysAA@pipex.net>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
```

```
Content-Transfer-Encoding: 7bit
Lines: 22
Date: Sat, 02 Jun 2007 12:18:05 GMT
NNTP-Posting-Host: 24.148.146.108
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1180786685 24.148.146.108 (Sat, 02 Jun
2007 05:18:05 PDT)
NNTP-Posting-Date: Sat, 02 Jun 2007 05:18:05 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13405

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>Conclusion : Wrong NG for you.
>  Advice to you : Do a Google
>
>Frank   GM0CSZ / KN6WH
I would also like to have such a device on my workbench.
I will Google it.
I really hate it when I get half way through a HB project and find out
I could have acquired one for cheap!

John Ferrell W8CCW
"Life is easier if you learn to
plow around the stumps"


From 1913317021413138148
X-Google-Thread: f64c6,27b71ba72241c6c1
X-Google-Thread: 107ada,27b71ba72241c6c1
X-Google-Thread: fc2a5,27b71ba72241c6c1
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx02.iad01.newshosting.com!newshosting.com!newsfeed.icl.net!newsfeed.fjserv.net!
colt.net!newsfeed.esat.net!reader01.news.esat.net!not-for-mail
From: zpk_pkearn_class_a_licensee@aruba.eircom.india.net.com (zpk)
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: Car and Deep Cycle Battery FAQ
Date: Sat, 02 Jun 2007 13:18:20 GMT
Organization: 11165--the-number-of-the-stupido
Lines: 15
Message-ID: <46616e03.8052950@news.iol.ie>
References: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>
```

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<1180583642.877955.169570@o5g2000hsb.googlegroups.com>
<z5adnVd7TNWBPsPbnZ2dnUVZ8vmdnZ2d@pipex.net> <466076bf.442271@news.iol.ie>
<MuydnY4metuuPf3bRVnyjwA@pipex.net>
Reply-To: deaf-people-are-deaf--they-are-not-blind-or-stupid@hearing-people-not-
so-clever.com
NNTP-Posting-Host: dialup0274.ts552.cwt.esat.net
X-Trace: reader01.news.esat.net 1180790181 25271 193.203.145.18 (2 Jun 2007
13:16:21 GMT)
X-Complaints-To: abuse@esat.net
NNTP-Posting-Date: Sat, 2 Jun 2007 13:16:21 +0000 (UTC)
X-Newsreader: Forte Free Agent 1.21/32.243
Xref: g2news1.google.com uk.radio.amateur:114958 rec.radio.amateur.misc:36232
rec.radio.amateur.homebrew:13406

Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote:

> >> However car batteries can be used very effectively for amateur radio
> >> operations by using them as a peak current provider in conjunction with
> >
> > A certain  g7  used to charge his batteries on night-rate electricity and
> > then run his bbs off them during the day.
> >
> > and that was in the mid 90's.
> ==============================
> Above info is possibly NOT relevant . The topic is : Running amateur
> radio equipment from a CAR battery.

i was given to understand the had a collection of car batteries.



From 7788929079267737880
X-Google-Thread: fc2a5,5502aaea195b61c7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!
nx01.iad01.newshosting.com!newshosting.com!69.28.186.77.MISMATCH!hwmnpeer03.lga!
hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe14.lga.POSTED!
53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1361eplquqruj46@corp.supernews.com> <X%28i.798$3L1.236@newsfe14.lga>
<1361ioeejckrv94@corp.supernews.com> <lc48i.401567$2Q1.10224@newsfe16.lga>
<1361p54t5hfsf39@corp.supernews.com>
Subject: Re: Question for the group...
Lines: 41
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
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Message-ID: <xFe8i.2521$3L1.582@newsfe14.lga>
Date: Sat, 2 Jun 2007 09:55:20 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe14.lga 1180792541 68.0.230.122 (Sat, 02 Jun 2007 06:55:41 MST)
NNTP-Posting-Date: Sat, 02 Jun 2007 06:55:41 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13407
```

"Dave" <db5151@hotmail.com> wrote in message
news:1361p54t5hfsf39@corp.supernews.com...

> I am doing this inside of the active antenna case, using the coils used for tuning the tank circuit. It's really kind of an unusual setup, I gather. I am trying to use the resonance of the coil, which is in parrallel with my tuning capacitor, to set up a sympathetic signal in the second layer on that same coil, and feed this sympathetic signal to my first stage of amplification. That's the step-up transformer part. The whole thing just resonates at a higher frequency than I anticipated. Thus my original question: has anyone heard of this before, and what is it called/where can I find more info on the subject. Fortunately it still allows me to pull in my target shortwave station, but it's at the bottom of the tuning range rather than the top.
>
> Thanks for your help,
>
> Dave

Hi Dave

Then in effect, you are trying to match a lower impedance to a higher one since you are trying to increase the voltage gain.

Without knowing the active antenna you're attempting to use, it is kind of hard to determine what advice to offer. I think you mentioned a 100 foot long wire... That would have a much lower impedance over the HF range than a 3 foot whip. If you just want voltage gain, use several turns on the bottom of the coil for coupling the antenna to the tuned circuit. The tuned circuit will provide the voltage gain. You will reach a point where the active antenna will be prone to overload, even with the tuned preselector input.

Pete

>

From 2553627917959727437

X-Google-Thread: fc2a5,5502aaea195b61c7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question for the group...
Date: 2 Jun 2007 15:19:51 GMT
Organization: The National Capital FreeNet
Lines: 31
Message-ID: <f3s1qn$1re$1@theodyn.ncf.ca>
References: <1361eplquqruj46@corp.supernews.com> <X%28i.798$3L1.236@newsfe14.lga> <1361ioeejckrv94@corp.supernews.com> <lc48i.401567$2Q1.10224@newsfe16.lga> <1361p54t5hfsf39@corp.supernews.com> <xFe8i.2521$3L1.582@newsfe14.lga>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1180797591 1902 134.117.136.48 (2 Jun 2007 15:19:51 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 2 Jun 2007 15:19:51 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13408

"Uncle Peter" (radioconnection@cox.net) writes:

> Without knowing the active antenna you're attempting to use, it is kind of hard to determine what advice to offer. I think you mentioned a 100 foot long wire... That would have a much lower impedance over the HF range than a 3 foot whip. If you just want voltage gain, use several turns on the bottom of the coil for coupling the antenna to the tuned circuit. The tuned circuit will provide the voltage gain. You will reach a point where the active antenna will be prone to overload, even with the tuned preselector input.
>

I always thought the concept of an "active antenna" was that you had a short whip and barely loaded it down. The whip itself is connected to a very high impedance point, and then the active components are there to transform that into a lower impedance for the receiver.

You basically see the idea in old car radios, where the whip was connected across the tuned circuit at the input. If you didn't use the right cable to connect it to the antenna, and if you didn't use the trimmer to adjust things to compensate for that cable, you'd lose a lot of signal.

Then solid state devices came along, and that made it much easier to do the transformation, since they took up less space and didn't need filament voltage.

A preamp or even preselector is not the same thing as an "active antenna".

Michael VE2BVW

```
From -8845724291495677923
X-Google-Thread: fc2a5,5502aaea195b61c7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!i38g2000prf.googlegroups.com!not-for-
mail
From:  K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question for the group...
Date: Sat, 02 Jun 2007 08:39:01 -0700
Organization: http://groups.google.com
Lines: 57
Message-ID: <1180798741.968920.246430@i38g2000prf.googlegroups.com>
References: <1361eplquqruj46@corp.supernews.com>
NNTP-Posting-Host: 71.113.61.183
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1180798742 13533 127.0.0.1 (2 Jun 2007 15:39:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 2 Jun 2007 15:39:02 +0000 (UTC)
In-Reply-To: <1361eplquqruj46@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.3)
Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i38g2000prf.googlegroups.com; posting-host=71.113.61.183;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news1.google.com rec.radio.amateur.homebrew:13409

On Jun 1, 5:35 pm, "Dave" <db5...@hotmail.com> wrote:
> Has anyone ever heard of anything like the experiment I am currently
> concocting?  I have taken an Amidon T50-2 toroid form and wrapped it with 57
> turns of #32 enamaled wire, giving it an inductance of 16 uH, then wrapped
> over that layer with 150 turns of #36 wire.  The first layer (16 uH) I am
> using for tuning my home-built active antenna, and am relying on resonance
> to send a signal through the outer layer, which I *think* should act like a
> step-up transformer for that signal.  This layer is grounded on one end, and
> feeds into the first stage of amplification on the other.  And it does seem
> to work, only the toroid seems to resonate at around 10 MHz with my tuning
> capacitor set to 114 pF, when it should (I thought) resonate at something
> lower, like around 3.7 MHz.
>
> And like I said, the step-up transformer part does seem to work, but I can't
> tune as low as I would like.  Has anyone ever hear of anyone else trying
> anything like this?  If so, what is it called, and where can I find info on
> the subject?
>
> Many thanks for any help...
>
> Dave
```

The reactance of the coil at 3.7MHz is about 375 ohms. Your long antenna will likely put an impedance across that tank that's on the same order, or maybe lower, impedance. That will pretty much kill any resonant peak you got from the coil and capacitor.

You should start, perhaps, by realizing that what you are looking for is generally not the largest voltage from the antenna, assuming you can add whatever amplification you want, but rather the best signal to noise ratio or the lowest distortion. In fact, atmospheric noise is so large at these HF frequencies that it doesn't take much of an antenna to pick up more of that atmospheric noise than the receiver will contribute, assuming a decent receiver. Making the signal larger just increases the distortion and the chances that strong signals will cause distortion that covers up the weak ones.

There IS an advantage to having sharply resonant circuits in front of any gain stages in the receiver, because you can use them to get rid of unwanted signals, and preferentially select the signals you want to listen to. But to do that, you need to think more carefully about the design of the resonant circuit.

You may in fact find that it works a lot better if you couple your antenna to the tuned circuit (your toroid core and capacitor) rather loosely, like with very few turns--perhaps a single turn-- through the core for the antenna connection. Even back in the very early days of radio, the advantages of a sharp resonance achieved by loose coupling to a resonant circuit were understood: they used something called a "loose coupler" that let them adjust the coupling from the antenna to the tuned tank/detector. For best selectivity, couple lightly, just enough to get a usable signal. That means coupling the receiver input lightly to the tuned circuit, too.

Cheers,
Tom

From -8122550697111120354
X-Google-Thread: fc2a5,a36e0230417ab37b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 02 Jun 2007 13:00:16 -0500
From: "Jim" <kill-spam@no-spam.org>
Newsgroups: rec.radio.amateur.homebrew
References: <1180728282.446980.33860@u30g2000hsc.googlegroups.com>
<5bKdnWovtewqA_3bRVnysAA@pipex.net> <f3q8i9$bd9$1@puck.litech.org>
Subject: Re: DDS VFO
Date: Sat, 2 Jun 2007 11:00:04 -0700
X-Priority: 3
X-MSMail-Priority: Normal

X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 000746-2, 06/01/2007), Outbound message
X-Antivirus-Status: Clean
Message-ID: <cbydnXfa-outLfzbnZ2dnUVZ_vCknZ2d@comcast.com>
Lines: 30
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BV+IxyYz4EU7!3NczY2B038F7y9Y0SORe/
KXEzi25XuY8aSAEhJ1fgXs15QDBvb9LkGQy6wWosl2aT36q5ERrKuXV!HLUm+mhK3q3wn3nyiy/
YH5ftb3guOg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13410

Personally, I'd experiment with the AD9951 DDS chip, it's spurious outputs are very low....

http://www.radioamatore.it/i0cg/add9951.html

However, if somebody wants a DDS for direct conversion experiments, the AD9854 DDS has built in quadrature outputs which make it tempting. This website discusses a complete design and, the kit can be gotten from Kanga.

It is pricy, but in my opinion, it has everything I would need.....

http://home.comcast.net/~aa0zz/index.html

The only drawback is that it's spurious outputs are higher.

Jim Pennell
N6BIU

--

10:59 Pacific Time Zone
Jun 2 2007

International Time
17:59 UTC
02.06.2007

From 679010915910545259

X-Google-Thread: fc2a5,a36e0230417ab37b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe04.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1180728282.446980.33860@u30g2000hsc.googlegroups.com>
Subject: Re: DDS VFO
Lines: 32
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Mimeole: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <qWi8i.16$Dr5.11@newsfe04.lga>
X-Trace:
noffecneefnkbhgfbaignffdjoaiejclapnmidcljohkgbcgnicfceledepkikoolhlefpnpglhfdcnhcg
koboddeefmpkpoeeafbjgnjjikoiimkpfbaemmpeimdkdgglbbcfickjagekga
NNTP-Posting-Date: Sat, 02 Jun 2007 11:46:46 MST
Date: Sat, 2 Jun 2007 14:46:36 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:13411

There are dozens of kits ... the combination FCC1/FCC2 from Norcal is one, AA0ZZ's has been mentioned as another. Kanga has a board called the PIC-EL II that will accept AmQRP's DDS-60 daughtercard and in conjunction with software available from AA0ZZ's website will do the same, plus, it has the PIC programmer on board, so you can play with various versions of the software. All 3 end up costing about the same. FAR Circuits has a board for the old WB2V model which works reasonably well and ends up considerably cheaper.

If you are concerned about soldering the AD985x chip, there are dozens of folks who do that for a small fee. In fact, if you graze the QRP lists you will discover that there are probably hundreds of folks who love to build kits so much that they are floating in them, and a looking satisfy their addiction by building kits for other people so their XYLs won't scream at the increasing pile of unused electronic gear.

The PIC-EL path is probably the most conducive to experimentation, but the most poorly packaged if your intent is to include it in one of your projects. AA0ZZ's has I-Q outputs if you are interested in exploring SDR. The FAR Circuits board of course includes none of the parts, the Norcal kit is lacking the expensive parts (switches, connectors, etc.)

Already built choices do seem fairly lean.

..

<pawludebono@gmail.com> wrote in message
news:1180728282.446980.33860@u30g2000hsc.googlegroups.com...

> Where can I buy a ready built synstesised 1-30 Mhz vfo ???
>

From -2166202911820736908
X-Google-Thread: fc2a5,5502aaea195b61c7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.astraweb.com!border1.newsrouter.astraweb.com!sn-xt-sjc-04!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question for the group...
Date: Sat, 2 Jun 2007 14:46:40 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1363i93m6s8mr14@corp.supernews.com>
References: <1361eplquqruj46@corp.supernews.com> <X%28i.798$3L1.236@newsfe14.lga>
<1361ioeejckrv94@corp.supernews.com> <lc48i.401567$2Q1.10224@newsfe16.lga>
<1361p54t5hfsf39@corp.supernews.com> <xFe8i.2521$3L1.582@newsfe14.lga>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 66
Xref: g2news1.google.com rec.radio.amateur.homebrew:13412

"Uncle Peter" <radioconnection@cox.net> wrote in message
news:xFe8i.2521$3L1.582@newsfe14.lga...
>
> "Dave" <db5151@hotmail.com> wrote in message
> news:1361p54t5hfsf39@corp.supernews.com...
>
>>
>> I am doing this inside of the active antenna case, using the coils used
>> for tuning the tank circuit. It's really kind of an unusual setup, I
>> gather. I am trying to use the resonance of the coil, which is in
>> parrallel with my tuning capacitor, to set up a sympathetic signal in
>> the second layer on that same coil, and feed this sympathetic signal to
>> my first stage of amplification. That's the step-up transformer part.
>> The whole thing just resonates at a higher frequency than I anticipated.
>> Thus my original question: has anyone heard of this before, and what is
>> it called/where can I find more info on the subject. Fortunately it
>> still allows me to pull in my target shortwave station, but it's at the
>> bottom of the tuning range rather than the top.
>>
>> Thanks for your help,

>>
>> Dave
>>
>
> Hi Dave
>
> Then in effect, you are trying to match a lower impedance to a higher one
> since you are trying to increase the voltage gain.
>
> Without knowing the active antenna you're attempting to use, it is kind
> of hard to determine what advice to offer. I think you mentioned a 100
> foot
> long wire... That would have a much lower impedance over the HF range
> than a 3 foot whip. If you just want voltage gain, use several turns on
> the bottom of the coil for coupling the antenna to the tuned circuit.
> The tuned circuit will provide the voltage gain. You will reach a point
> where the active antenna will be prone to overload, even with the tuned
> preselector input.
>
> Pete
>
>>

Hey Pete,

The active antenna is a home-built MFJ-1020A, which has a short whip and an input for an external antenna. The amplifier has the gate of a JFET (2N5486) as the input for the first stage of amplification. I can post a schematic to ABSE if you like.

After reading your last post, I think I am beginning to understand what you mean, about matching impedances. This subject has always been a tough one for me, but it interests me, and now I have a reason to study and learn it. I had no idea that was what I was trying to do.

So, it sounds like I am trying to match a low impedance signal source (the longwire antenna) to a high impedance input (the amplifier.) Is that roughly correct? If so, any idea on where I can find more info on impedance matching?

Thanking you very much for your help...

Dave

From 3331930084537472046
X-Google-Thread: fc2a5,5502aaea195b61c7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!sn-xt-sjc-04!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail

From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question for the group...
Date: Sat, 2 Jun 2007 15:06:35 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1363jef6n56v374@corp.supernews.com>
References: <1361eplquqruj46@corp.supernews.com>
<1180798741.968920.246430@i38g2000prf.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 96
Xref: g2news1.google.com rec.radio.amateur.homebrew:13413

"K7ITM" <k7itm@msn.com> wrote in message
news:1180798741.968920.246430@i38g2000prf.googlegroups.com...
> On Jun 1, 5:35 pm, "Dave" <db5...@hotmail.com> wrote:
>> Has anyone ever heard of anything like the experiment I am currently
>> concocting? I have taken an Amidon T50-2 toroid form and wrapped it with
>> 57
>> turns of #32 enamaled wire, giving it an inductance of 16 uH, then
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>> over that layer with 150 turns of #36 wire. The first layer (16 uH) I am
>> using for tuning my home-built active antenna, and am relying on
>> resonance
>> to send a signal through the outer layer, which I *think* should act like
>> a
>> step-up transformer for that signal. This layer is grounded on one end,
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>> feeds into the first stage of amplification on the other. And it does
>> seem
>> to work, only the toroid seems to resonate at around 10 MHz with my
>> tuning
>> capacitor set to 114 pF, when it should (I thought) resonate at something
>> lower, like around 3.7 MHz.
>>
>> And like I said, the step-up transformer part does seem to work, but I
>> can't
>> tune as low as I would like. Has anyone ever hear of anyone else trying
>> anything like this? If so, what is it called, and where can I find info
>> on
>> the subject?
>>
>> Many thanks for any help...
>>
>> Dave
>
> The reactance of the coil at 3.7MHz is about 375 ohms. Your long
> antenna will likely put an impedance across that tank that's on the

> same order, or maybe lower, impedance. That will pretty much kill any resonant peak you got from the coil and capacitor.

Man, I think you are right on the money with this. I get the signal, but very little ability to "tune" it in, as if the resonant "peak" is very low (my understanding.)

> You should start, perhaps, by realizing that what you are looking for is generally not the largest voltage from the antenna, assuming you can add whatever amplification you want, but rather the best signal to noise ratio or the lowest distortion. In fact, atmospheric noise is so large at these HF frequencies that it doesn't take much of an antenna to pick up more of that atmospheric noise than the receiver will contribute, assuming a decent receiver. Making the signal larger just increases the distortion and the chances that strong signals will cause distortion that covers up the weak ones.

I am getting more signal than noise, compared to operation without the active antenna, but it's not exactly "prime".

> There IS an advantage to having sharply resonant circuits in front of any gain stages in the receiver, because you can use them to get rid of unwanted signals, and preferentially select the signals you want to listen to. But to do that, you need to think more carefully about the design of the resonant circuit.

Yes, yes, that is what I am attempting to do. I am just such a newbie to RF...

> You may in fact find that it works a lot better if you couple your antenna to the tuned circuit (your toroid core and capacitor) rather loosely, like with very few turns--perhaps a single turn-- through the core for the antenna connection. Even back in the very early days of radio, the advantages of a sharp resonance achieved by loose coupling to a resonant circuit were understood: they used something called a "loose coupler" that let them adjust the coupling from the antenna to the tuned tank/detector. For best selectivity, couple lightly, just enough to get a usable signal. That means coupling the receiver input lightly to the tuned circuit, too.

My best results come from using an alligator clip with a foot or so of solid wire soldered to it, and clipping to the center conductor of the output from the active antenna while wrapping the wire around the whip antenna of my Sony 7600GR portable SW radio. This gives me a slightly clearer signal, even if it is not as loud as pluging the output into the external antenna connection of the radio. One thing I suspect is that I am using the wrong type of coax (RG-59). I believe my coax is 75 ohm, and what I probably need is 50 ohm. Does that sound right? Or am I wrong here?

Thank you so much for your help. I have been working on this for a while, and think I am getting close to achieving my goal.

```
>
> Cheers,
> Tom
>
```

```
From 3317128818796474863
X-Google-Thread: fc2a5,5502aaea195b61c7
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!feeder1-2.proxad.net!
exabot.com!freenix!sn-xt-sjc-04!sn-xt-sjc-08!sn-xt-sjc-01!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question for the group...
Date: Sat, 2 Jun 2007 16:58:32 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1363q0c38reddff@corp.supernews.com>
References: <1361eplquqruj46@corp.supernews.com>
<1180798741.968920.246430@i38g2000prf.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 82
Xref: g2news1.google.com rec.radio.amateur.homebrew:13414
```

"K7ITM" <k7itm@msn.com> wrote in message
news:1180798741.968920.246430@i38g2000prf.googlegroups.com...

```
> On Jun 1, 5:35 pm, "Dave" <db5...@hotmail.com> wrote:
>> Has anyone ever heard of anything like the experiment I am currently
>> concocting?  I have taken an Amidon T50-2 toroid form and wrapped it with
>> 57
>> turns of #32 enamaled wire, giving it an inductance of 16 uH, then
>> wrapped
>> over that layer with 150 turns of #36 wire.  The first layer (16 uH) I am
>> using for tuning my home-built active antenna, and am relying on
>> resonance
>> to send a signal through the outer layer, which I *think* should act like
>> a
>> step-up transformer for that signal.  This layer is grounded on one end,
>> and
>> feeds into the first stage of amplification on the other.  And it does
>> seem
>> to work, only the toroid seems to resonate at around 10 MHz with my
>> tuning
```

>> capacitor set to 114 pF, when it should (I thought) resonate at something
>> lower, like around 3.7 MHz.
>>
>> And like I said, the step-up transformer part does seem to work, but I
>> can't
>> tune as low as I would like. Has anyone ever hear of anyone else trying
>> anything like this? If so, what is it called, and where can I find info
>> on
>> the subject?
>>
>> Many thanks for any help...
>>
>> Dave
>
> The reactance of the coil at 3.7MHz is about 375 ohms. Your long
> antenna will likely put an impedance across that tank that's on the
> same order, or maybe lower, impedance. That will pretty much kill any
> resonant peak you got from the coil and capacitor.
>
> You should start, perhaps, by realizing that what you are looking for
> is generally not the largest voltage from the antenna, assuming you
> can add whatever amplification you want, but rather the best signal to
> noise ratio or the lowest distortion. In fact, atmospheric noise is
> so large at these HF frequencies that it doesn't take much of an
> antenna to pick up more of that atmospheric noise than the receiver
> will contribute, assuming a decent receiver. Making the signal larger
> just increases the distortion and the chances that strong signals will
> cause distortion that covers up the weak ones.
>
> There IS an advantage to having sharply resonant circuits in front of
> any gain stages in the receiver, because you can use them to get rid
> of unwanted signals, and preferentially select the signals you want to
> listen to. But to do that, you need to think more carefully about the
> design of the resonant circuit.
>
> You may in fact find that it works a lot better if you couple your
> antenna to the tuned circuit (your toroid core and capacitor) rather
> loosely, like with very few turns--perhaps a single turn-- through the
> core for the antenna connection. Even back in the very early days of
> radio, the advantages of a sharp resonance achieved by loose coupling
> to a resonant circuit were understood: they used something called a
> "loose coupler" that let them adjust the coupling from the antenna to
> the tuned tank/detector. For best selectivity, couple lightly, just
> enough to get a usable signal. That means coupling the receiver input
> lightly to the tuned circuit, too.
>
> Cheers,
> Tom
>

Hi again Tom,

BTW, how would I calculate the impedance of the coil mentioned above for matching purposes? Would the ARRL Handbook have info on this? I googled "impedance matching:" and found some good (and interesting) links, but feel I need more.

Thanks again,

Dave

From 7858884987292567883
X-Google-Thread: fc2a5,785aad2ebde60da8
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o5g2000hsb.googlegroups.com!not-for-mail
From: lw1ecp <danyperez1@yahoo.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RF Phase shift
Date: Sat, 02 Jun 2007 21:43:16 -0700
Organization: http://groups.google.com
Lines: 4
Message-ID: <1180845796.977533.291130@o5g2000hsb.googlegroups.com>
References: <1180727893.331574.77330@m36g2000hse.googlegroups.com>
   <PLmdnUxZBuSHa_3bnZ2dnUVZ_u6rnZ2d@comcast.com>
NNTP-Posting-Host: 190.49.181.79
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1180845797 4324 127.0.0.1 (3 Jun 2007 04:43:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 3 Jun 2007 04:43:17 +0000 (UTC)
In-Reply-To: <PLmdnUxZBuSHa_3bnZ2dnUVZ_u6rnZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.0),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o5g2000hsb.googlegroups.com; posting-host=190.49.181.79;
   posting-account=YKj2jA0AAAAF85ssE8WTvzzuJs1ussNt
Xref: g2news1.google.com rec.radio.amateur.homebrew:13415

Good phasing transmitters and receivers: do a search on "Rick Campbell" and its "T2" and "R2" QST articles.
Daniel Perez LW1ECP

From 350834704196043228
X-Google-Thread: fc2a5,be826dc6df0ac5ff,start
X-Google-Thread: fc8b1,be826dc6df0ac5ff,start
X-Google-Thread: 108122,be826dc6df0ac5ff,start
X-Google-Thread: 111d0a,be826dc6df0ac5ff,start
X-Google-Thread: 113975,be826dc6df0ac5ff,start

X-Google-Attributes: gidfc2a5,gidfc8b1,gid108122,gid111d0a,gid113975,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q66g2000hsg.googlegroups.com!not-for-mail
From: bill.meara@gmail.com
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,sci.electronics.basics,sci.astro.amateur
Subject: SolderSmoke -- A Podcast About Electronics
Date: Sun, 03 Jun 2007 08:59:06 -0000
Organization: http://groups.google.com
Lines: 53
Message-ID: <1180861146.712864.139030@q66g2000hsg.googlegroups.com>
NNTP-Posting-Host: 86.142.202.27
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180861146 18219 127.0.0.1 (3 Jun 2007 08:59:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 3 Jun 2007 08:59:06 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q66g2000hsg.googlegroups.com; posting-host=86.142.202.27;
   posting-account=7vRsuQwAAADlh58wGAIfEFYQRw36eW7d
Xref: g2news1.google.com rec.radio.amateur.homebrew:13416 rec.radio.amateur.boatanchors:11809 rec.radio.amateur.equipment:12132 sci.electronics.basics:54532 sci.astro.amateur:81107

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SolderSmoke #61

June 3, 2007
Farhan's new blog.
More AGC.
Ramakrishnan's RFI.
SolderSmoke returns to 2X QSO mode:
Echolink interview with Jim, N5SPE.
Origins of Amateur Logic TV.
"The Knack" hits Mississippi.
Kick-plates as radio cabinets.
Visit to Dayton.
Encounter with the Haywards.
Building a W7ZOI power meter.
Milton Keynes BITX80 club build.
The dangers of molten solder.
Getting oscillators to oscillate.

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http://www.soldersmoke.com/soldersmoke.rss

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http://www.soldersmoke.com

All the programs are available here.

I hope you enjoy the program. Please send us feedback.

73 from London
Bill M0HBR N2CQR CU2JL
http://www.gadgeteer.us

```
From -1707946056949214725
X-Google-Thread: fc2a5,91c77218f425fc19,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!
peer1.news.newnet.co.uk!194.159.246.34.MISMATCH!peer-uk.news.demon.net!
kibo.news.demon.net!mutlu.news.demon.net!news.demon.co.uk!demon!not-for-mail
From: "Bob Harrison" <g4ujs@qsl.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Shack Sale
Date: Sun, 3 Jun 2007 17:33:21 +0100
Lines: 12
Message-ID: <f3uqgc$cms$1$830fa17d@news.demon.co.uk>
NNTP-Posting-Host: glh.demon.co.uk
X-Trace: news.demon.co.uk 1180888396 13020 83.104.58.62 (3 Jun 2007 16:33:16 GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Sun, 3 Jun 2007 16:33:16 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Priority: 3
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MSMail-Priority: Normal
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:13417

Listing and photos on my website

73 de Bob G4UJS

Bob Harrison

Telephone: +44 7876 791215

Website: http://www.qsl.net/g4ujs

From 3567793908312513165
X-Google-Thread: fc2a5,e1d3305d8ab47b5f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out01a.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny03.POSTED!0da99462!
not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1180328007.878025.91940@n15g2000prd.googlegroups.com>
<135ndf2j1nr6e9a@corp.supernews.com> <9rT6i.7365$4S5.3627@trndny01>
<1361umcppdjfcf3@corp.supernews.com>
Subject: Re: A Homebrewer's Blog
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <PeH8i.3713$fX4.964@trndny03>
Date: Sun, 03 Jun 2007 22:26:55 GMT
NNTP-Posting-Host: 68.236.11.113
X-Complaints-To: abuse@verizon.net
X-Trace: trndny03 1180909615 68.236.11.113 (Sun, 03 Jun 2007 18:26:55 EDT)
NNTP-Posting-Date: Sun, 03 Jun 2007 18:26:55 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13418

>.....how the hell does anyone find his blog a week, after he announces it?

If you're interested in what he has to say, then you could bookmark in your browser's 'Favorites', it or put it on your browser's 'Links' bar, or set up a browser Tab for it. I follow several blogs this way. Of course, if you're not interested in following it, or if he doesn't keep it fresh enough to

sustain interest in it, then either it will die or you'll remove the browser
references to it. That's sort of how blogs work.

Joe
W3JDR

```
From 6750212813554062051
X-Google-Thread: fc2a5,a5a0d93f28aad106
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 25 May 2007 09:29:08 -0500
From: "John Doe" <hgorden@adelphia.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1180064295.952456.198780@h2g2000hsg.googlegroups.com>
Subject: Re: THE UNION MAKES THE FORCE
Date: Fri, 25 May 2007 10:29:44 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <MKCdnRhrCIwpb8vbnZ2dnUVZ_oOknZ2d@comcast.com>
Lines: 275
NNTP-Posting-Host: 76.100.201.181
X-Trace: sv3-jFTEocUjqOQgr9E8t9+BLpX0jpXWChzEOVZogo2I5cg2SQl7/
nrWFPaKxVtYRQQQwJnZ5nAnK8KYjXg!
XYxRoCM7UVJziqx9cb4LTjbyXSIQk+5a03ndEE6otJhu1/8LwHYtqH7ztsmt6nyMe3vgJKgpAAkt!
BxBDqFwWwxrZZhNF+Is5dwCuqNs7qkI=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13317
```

And just what does this SPAM have to do with homebrewing?

This is the problem with the UNMODERATED NG's on the internet - you keep
getting all this CRAP!!!!

"brisa" <brisasuave30@hotmail.com> wrote in message
news:1180064295.952456.198780@h2g2000hsg.googlegroups.com...
THESE TIRED TO WORK HARD AND TO HAVE SINGLE MONEY TO PAY ACCOUNTS OR
SOMETIMES NOR FOR THAT? THE MONEY IS FOR ALL AND A HARD WORK DESERVES
AN EXCELLENT ONE IT PAYS! I OFFER YOU TO BE PART OF THIS AID IN

COMMON, BECAUSE THE UNION MAKES THE FORCE, PROVES THE FORCE OF SOLIDARITY BY INTERNET, AYUDATE AND AID TO THE OTHERS PLEASE BEFORE ELIMINATING THIS WARNING, WOULD BE THANKFUL THAT LEA FIRST AND IT MAKES THE DECISION LATER. THIS IS NOT A SWINDLE, IS NOT ILLEGAL, IS NOT NECESSARY TO ABSOLUTELY SELL NOTHING, IS FOR SLUGGISH IS FOR PEOPLE WHO NEED AID AND WANT TO HELP THE OTHERS. MAKES SAFE MONEY LEGALLY, FAST AND VIA INTERNET! MAKES SAFE MONEY LEGALLY, FAST AND VIA INTERNET! (Suggestion: It prints this one article so that it reads it with thoroughness and thus it can include/understand it better and follow his form step by step of application.) HELLO TO ALL. - You need a car, to pay to the initial of your house or department, to pay education of your children, you need very deserved vacations, to lamentably begin a saving or any thing for your family but your pay only reaches to pay the accounts sometimes and nor after that. If you identify yourself with previous, the welcome thing to the club, if in addition you are conscientious that stops to win money is necessary to work always honestly, then east business is for you. It says thus: ORIGINAL MESSAGE While it sailed by these pages of the news, also like you it is doing it now, appeared to me an article similar to this that it said: You can gain thousands of dollars in few weeks with an investment of U.S. $6 dollars (six dollars). Immediately I thought: " OH, no! , another swindle more? ", but like majority of us, the curiosity could more, and I continued reading, and it continued saying: "You will send U.S. $ 1,00 (a dollar) to each one of the 6 names and directions mentioned in this article, later You will write down your name and direction at the end of the list having replaced to I number # 6, and it will at least send or put east article in 200 NEWS GROUPS (there are million of these anywhere in the world). " Note: If one is in another country, must exchange his national a dollars, because in all the countries they change dollars and is easier for all. For that reason we will make this business only with dollars and not complicaremos us. Any trick, the difference from this system to others does not exist, is that you have a list of 6 instead of 5, this means that your average of gain he will be After thinking it time and time again and to consult it with friends, I decided to prove it, I thought that the only thing that it could lose era the value of 6 stamps and U.S. $6 dollars and that it would take it like an investment, truth! I thought that to invest 6 dollars plus the costs of shipment by mail they were a compared triviality with which I give in my work by a pay which I am thankful but that it is not sufficient nor just. As probably many of us were a little worried about the legality about all this. Then it consults to the Central Mail and they confirmed to me that in fact he was totally legal. I remained astonished and I invested to my U.S. $6 dollars immediately... IMAGINENSE THAT! ... the few days later, I began to receive MONEY by mail! Was happy, like boy with new toy, and very surprised! And it thought that this would finish more in few days and tries to forget to me the subject, in any case already had recovered the investment, but the money continued arriving. In my first week I made between U.S. $20 dollars and $30 dollars. For the end of the second week it had made a total of U.S. $1,000 (thousand dollars)! PODIA NOT TO BELIEVE it! ; in the third week U.S. $10,000 (ten thousand dollars) and still continued arriving more! ; in my fourth week had a total of U.S. $41,000 dollars and this continues arriving more quickly (in my house, they go it opening you exceed and I obtaining "NEWSGROUP". THIS WAS PUT SERIOUS. All this was worth the trouble, the investment of U.S. $6 dollars and 6 stamps, gave its fruits, and to think that I spent more of U.S. $6 dollars weekly in drawings and lottery, and did not pass anything. The truth is that this can pass as long as works conscientiously and placing this warning in the greater possible amount of newsgroup, this works simple, while more people see it, more money I win, but even so I assure to you that you will win much more that putting 6 dollars in the best bank of on credit fixed world of 1 year. You will be receiving money worldwide, of places that nor know and in few days! Possibly he will want to rent a PO. BOX. By the amount of you exceed that it will be receiving. ASEGURESE OF WHICH ALL CORRECT DIRECTIONS ESTEN. Now So that of all this (IT IS WHAT IS GOING IT TO LIKE): Of 200 publications of this one letter in different newsgroup, we say that single receipt 5 replaced (IT IS NECESSARY TO BE PESSIMISTIC). Then I made US$5 Dollars with my name in the position #6, of this letter. Now each one of the people who sent the dollar, also makes a number of 200 publications of this one letter in different newsgroup and single 5 people to each one of the 5 original ones respond, this makes U.S. $25 more than I receive (up to here already I recovered my investment more and), now these 25 people put a minimum of 200 publications of this one letter in different newsgroup with my name in #4 place, and single 5 replaced of each one are received. It would be making other U.S. $125 additional, now these 125 people put a minimum of 200 publications of this letter in different newsgroup with my name in #3 place and single one receives 5 answers each, I I receive an additional one of U.S. $625, OK, Here this the part but amused, each one of these 625 people place puts their letters with other 200 publications of this one letter in different newsgroup with my name in #2 and each one receives only 5 answers. This causes that I receive U.S. $3.125. However these 3,125 people sent their letter and in addition they published this one letter in 200 different newsgroup, with my name in #1 place, and only 5 people respond of the 200 newsgroup, this does that I receive U.S. $15,625 dollars. Of an investment of U.S. $6. - dollars, do not think that he is FABULOUS and as I before said, that single 5 people respond of 200 newsgroup, (the real average is of 20 to 30 people) . IF THEY WANT THEY REMOVE CALCULATIONS! IF SINGLE 15 PEOPLE RESPOND .... THIS WOULD BE EQUAL A: In the position #6 =US $ 15,00. - In the position #5=US $ 225,00. - In the position #4=US $ 3,375, 00. - In the position #3 =US $ 50,625, 00 - In position #2=US $ 759,375, 00. - ((((Now the good thing comes, not scare. - In the position #1 .... (((((U.S. $ 11.390.625, 00))))) ... if, ELEVEN MILLION DOLLARS or EUROS! This is the power of the multiplication of the capital to which all we have right! As I said, this can happen but it is necessary to work intelligently and each one of us must fulfill putting this warning not in 200 but in 400 newsgroup, to send post office to everybody, to make marketing, etc. and all gratuitous means of the powerful Internet virtual, in the end your work will give fruits because you worked with effort, honesty and transparency. Once its name no longer is in the list, removes the last announcement from the newsgroup and sends other U.S. $6 dollars to the names in that list, putting its name in the place # 6 and soon will return to repeat all the process, and to begin to put them in the newsgroup again, which must remember is that million people like You and like I anywhere in the world, they are connected to Internet daily and therefore some will read these articles, so I believe that nobody will have problems to invest to U.S. $6 dollars, and to see if this really works. Some people get to think...."and if nobody responds" ..... to me as it is the possibility that this happens? , if there are thousands and thousands of honest people (who, as we) they look for a way to have financial independence and to pay accounts! , and they are arranged to treat, because "THERE IS no WORSE FIGHT THAN, THE ONE THAT NOT FOR! ", esteem that are 20,000 to 50,000 new users of INTERNET Every day, (in all world). ** REMEMBERS, HAGALO IN HONEST, CLEAN FORM AND CORRECTLY, THUS IT WILL WORK WITH COMPLETE CERTAINTY. By the way: if you it defrauds to the people, putting messages with his name and it does not send any money to the others in those lists, you you will not receive ANYTHING almost! SO THAT ALL THIS HAPPENS? BECAUSE IT IS NOT HARVESTED WHAT NOT SOWING. REMEMBER, HAGALO IN HONEST, CLEAN FORM AND CORRECTLY, of way so that it wins money and does not squander the time, if it does, will receive money of all the people who enter this business will obtain positive results, at heart these money are turning around the world, and the people that will thank for it, are the pluses needed anywhere in the world (I do not say of extreme poverty), but people, who by those things of the life are in jams and this them aid to come out ahead. "A THING IS SAFE TO THAT YOU SEND TO HIM ON WITH 1 DOLLAR, BY COMMITMENT VERY SURELY IT WILL PUBLISH TO YOU IN HIS NEXT LISTS IN THE NEWGROUPS AND BY CONSEQUENCE YOU WILL RECEIVE MORE MONEY "... MUST FOLLOW THE RULES OF THE BUSINESS, OR BUT IT WILL SEE ITSELF VERY AFFECTED BY PEOPLE INESCRUPULOSAS, LUCK FOR ALL! You aseg�rese to print this article NOW, to remove all the information as she needs it. The process is very easy and consists of 3 (three) simple steps

STEP N� 1: Obtain 6 sheets of paper and you write in each one of them "PLEASE INCLUDES MY NAME IN HIS LIST OF CORRESPONDENCE Or e MAIL" or "PLEASE ADD MY NAME TO YOUR LIST". Soon, its name also writes, direction and (OPTIONAL: electronic mail or email). And if it wants as a pretty detail also places in which POSITION appeared each name of the people of its List when You sent your DOLLAR (Ej.: "He was in the 3 position" or" You were in slot 3 ") like making it more complete. That one is, to make money and to pass it well at the same time, everything with good will. Now it doubles this one page where the previous thing has written, around a bill of 1 dollar American, it does not send to checks nor another type of payments, single American Dollars. P�ngalo everything within 1 on and m�ndelo to each one of the 6 listed people, the idea to double the paper around the dollar is for assuring that it is going to arrive at his destiny and THAT IS IMPORTANT. Of another way the people who work in the mail could detect that she is money and to remain with the THOUSANDS of YOU EXCEED that they are to him arriving; so that she recommends herself to surround everything, additionally, in a dark paper or of coal so that she does not see herself through on. What this doing is to create a service and like so, does COMPLETELY LEGAL. From now on this not sending a EURO or DOLLAR to him to some person without any reason, this paying to a EURO or DOLLAR by a legitimate service (I assure to Him, again, that this is completely legal). Immediately afterwards, it sends the 6 you exceed to following directions:

1. Guillermo Jimenez Ramos Urb. Villas de Feliza 154 Calle Lucy
Boscana
Mayaguez, Puerto Rico 00680-7301
2. Mirta Weise. Calle: Eustaquio Fr�as 4361(Ingeniero Pablo Nogu�s)
C�digo Postal:1613 Buenos Aires Argentina
3. Jaime Cruz Ravelo Calle 69 Sur No. 102C-24 Bq 6 Apto 307 Ciudadela
La Libertad II Etapa Bogota D.C. (Colombia)
4. Edgar Fernando Gerardo Moreno. Calle Tarento 116 Entre Roma y
N�poles Cluster 12 Col. Hacienda Santa F� C.P. 45655, Tlajomulco de
Zu�iga, Jalisco (Mexico)
5. Ursula Maria Mora Devoto. Calle Manuel Quiroz 180 Dpto. 208
Santiago
de Surco, Lima (Per�)
6. Olga Vargas Egusquiza. Calle Leon Velarde 115 Urb. Los Libertadores
San Martin de Porres, Lima (Peru)

VERIFY OF WHICH ALL THE DIRECTIONS ARE CORRECT. STEP N� 2: Now it eliminates I number #1 of list of above and moves the other names a number upwards (#6 becomes #5, and # 5 it turns #4, etc...) and it adds his NAME AND ITS DIRECTION like #6 of the list. STEP N� 3: Change everything what creates advisable of this one article, but deal with to maintain it the closest possible thing to the original one. Now it puts his article in at least 200 NEWSGROUP (exists more than 24.000.000 newsgroup), single need 200, but the more it puts, the more money him it will arrive. STEP N� 4: THIS STEP IS OPTIONAL: You also can send this article to other well-known people or strangers, relatives or friends through electronic mails or e-mails; for which such You will have to make steps previous and in addition to add its email to the correspondence direction and simply to send this article by email or sticking it like message of text or like attached file. Important: Remember to select, to copy and to stick solely the article or letter of format HTML of the message! NOTE: "OF COURSE, NEWSGROUP CAN SEE THOUSANDS IT or UNTIL MILLION OF PEOPLE WHEREAS an ELECTRONIC MAIL SEES IT THAT or WHO THEY RECEIVE IT ". Here some indications of how introducing itself go to newsgroup: THIS IS IMPORTANT THE MAS PART OF THE BUSINESS OF PLACING THE WARNING WITH TU NAME NOT IN 200, BUT I PROPOSE TO YOU TO PUT IT IN 400 NEWGROUPS OF AS AT LEAST HALF IN EXTRAJEROS. HOW TO HANDLE the "NEWGROUPS in simple steps. N� 1. - You do not need to write up all this letter to do hers own. He only puts his cursor in the beginning of this letter, clicks and he leaves it pressed and b�jelo until the end of the letter and larguelo. All the letter will have to be "shaded". Then, note and clicks in "Edit" or "edition" it arrives of his screen, selects here "to copy" or (Ctrl +C). This will cause that all the letter is in the temporary memory of its computer. N� 2. - Notepad" or "Word" Opens to a new file "and takes the cursor it arrives of the page in target, Presses "edit" and of the menu it selects "paste" or "to beat" or (Ctrl+V). Now it will have this letter in his computer and will be able to add its name in the place #6 of the list following the instructions of above. N� 3. - This letter in its new file of notepad like "txt Records Case out " or "text file", and whenever it wants to change something, it will be able to do without problems. BEFORE PUBLISHING THIS ARTICLE IN ANY NEWSGROUP, IT REMEMBERS THAT ALL THE WEBSITES HAVE DIFFERENT INSTRUCTIONS TO PUBLISH ARTICLE IN ITS NEWS either GROUPS or NEWSGROUP the BEST thing IS THAN THEY FOLLOW INSTRUCTIONS OF HOW MAKING IT NEXT VERAN SOME SUGGESTIONS; THESE CAN VARY ACCORDING TO THE VERSIONS OF PROGRAMS, WEBSITES, ETC. FOR WHICH USES INTERNET EXPLORER. IF NO IT KNOWS MUCH OF FORUMS, IT CAN USE THE GOOGLE TO LOOK FOR NEWSGROUP AND BEGINS TO LOOK FOR WHERE TO PLACE ITS WARNING. N� 4. - Go to newsgroup and you select "post an article" or "to write new message/discussion " in some newsgroup first is selected specific group and later loads the article in publishing new message. N� 5. - The complete content of txt Marks. case out and you copy using same previous technique. Return to newsgroup "TO NEWS" and "IT STICKS IT" there you this creating and filling with paste this letter within its program or "posting" Presses the button "post" FOR WHICH THEY HANDLE NETSCAPE. Within the Netscape program, it goes to the titled window "Window" and select " NetscapeNews ". Then it chooses of the menu "Options", select "to Show all Newsgroup" Immediately will appear a list of all the newsgroup of their server, click in any newsgroup. Of this newsgroup it clicks underneath "TO NEWS", which would have to be it arrives, in the left end of the newsgroup page This him it took to the box of messages. N� 6. - Fill east space. This it will be the title that will see all when cross by the list of a group in individual for example puts WINS SAFE, FAST AND LEGAL MONEY SINGLE 6 DOLLARS OF INVESTMENT. Mark complete content of txt cases out and copies using the same technique previous. Return to newsgroup "TO NEWS" and you this creating and filling with paste or sticking this one letter within its program or "posting" N� 7. - Press "send", that this in the left superior part and you have finalized with its first newsgroup. .... CONGRATULATIONS! Everything what must do is to put in different Newsgroup (groups) and to publish this one letter or article; when it already has practice, single will take about 30 seconds him by each newsgroup. One it forms to find NEWSGROUP, it is through the finders and Servants of the News. REMEMBER: WHILE MAS NEWSGROUP OBTAINS, MAS MONEY ANSWERS WILL RECEIVE! BUT IT MUST ENTER AT LEAST... 200 NEWSGROUP. AND ALREADY THIS! Single a note more, if it knows to translate this message to other languages (it can make it with the Tool Language of Word or by Internet), can in addition, to insert them in forums of different countries like, the USA, England, France, Germany, Russia, Brazil, (this I say it like advice to expand the possibilities that he sees much but people it), imagines that their mail sees it in China.

NEWS FINDERS
http://www.dejanews.com
http://www.supernews.com http://tile.net/news/
http://www.ii.com/internet/messaging/newsgroups/

LISTING OF HISPANIC NEWS
http://www.foromania.com
http://www.mundolatino.org/usenet.htm
http://www.google.com.co/grphp?hl=es&tab=wg&q=

From 4717301186266644661
X-Google-Thread: fc2a5,f8437dfee808aa89,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread1.news.pas.earthlink.net.POSTED!22484013!not-for-mail
From: Paul Ferguson <Paul@PaulFerguson.us>
Newsgroups: rec.radio.amateur.homebrew
Subject: Need 2SC1971 transistor in TO-220
Reply-To: Paul@PaulFerguson.us
Message-ID: <g6ud53l5rreqp4buq5l8m5pvkfppmj1vlk@4ax.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 10
Date: Fri, 25 May 2007 14:58:51 GMT
NNTP-Posting-Host: 66.32.43.104
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1180105131 66.32.43.104 (Fri, 25 May 2007 07:58:51 PDT)
NNTP-Posting-Date: Fri, 25 May 2007 07:58:51 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13318

I have a DSW-II-20 QRP rig that needs a replacement RF power transistor type 2SC1971 in a TO-220 package.

I have looked at places I order from like Mouser, Digikey, Newark, but they do not have it. I need only a quantity of one but will buy 2.

Does anyone know of a source?

Paul
K5ESW

From -5829548176226442098
X-Google-Thread: fc2a5,a5a0d93f28aad106
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 25 May 2007 11:00:54 -0500
Date: Fri, 25 May 2007 17:00:52 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.0 (X11/20070522)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Re: THE UNION MAKES THE FORCE
References: <1180064295.952456.198780@h2g2000hsg.googlegroups.com>
<MKCdnRhrCIwpb8vbnZ2dnUVZ_oOknZ2d@comcast.com>
In-Reply-To: <MKCdnRhrCIwpb8vbnZ2dnUVZ_oOknZ2d@comcast.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <0PqdnZWyO6eqlcrbnZ2dnUVZ8rKdnZ2d@pipex.net>
Lines: 11
NNTP-Posting-Host: 81.178.242.187
X-Trace: sv3-fFN2H/0/9HqV3Mkr7mYKicoZfnMu8V69xcV7Z2UCI44bD97Y/
UyICzOomjx1bTIIB5Sg1jfgnICBShu!
2eNLRyM7OsDYAG9k2dqt0yPry7CqLGg5WkOAc0LcpBdscoeJF6ngOmEIeHVOUPsvE1SXGo4UUEpS!
H2x1MLQH3EBqshDpqDM40SWRGTU=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13319

John Doe wrote:
> And just what does this SPAM have to do with homebrewing?
>
> This is the problem with the UNMODERATED NG's on the internet - you keep
> getting all this CRAP!!!!
======
John , Yes it is c**p ,but you don't have to read it .
It also applies to 'legit' NG messages for in which you might not have
any interest.    The 'next message' button is your friend.

Frank   GM0CSZ / KN6WH


From -5071602733726857237
X-Google-Thread: fc2a5,f8437dfee808aa89
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 25 May 2007 11:37:30 -0500
Message-ID: <4657110A.1090402@roadrunner.com>
Date: Fri, 25 May 2007 12:38:34 -0400
From: "Paul E. Cater" <paulcater@roadrunner.com>
Organization: Cater Enterprise
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To:  Paul@PaulFerguson.us
Subject: Re: Need 2SC1971 transistor in TO-220
References: <g6ud53l5rreqp4buq5l8m5pvkfppmj1vlk@4ax.com>
In-Reply-To: <g6ud53l5rreqp4buq5l8m5pvkfppmj1vlk@4ax.com>
```

Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 22
NNTP-Posting-Host: 76.181.217.122
X-Trace: sv3-z1slnKXK0+3s8e9LdqRfSPVp00qSxEoZkd8wvmS/
TT4riJQgkowPgp6Uglr0ci4fUx7JR/vRaFnPKVD!HzUzI8s45HFoz8tqS/Fq7AturyQIOAE/
QVxHVb+PPMiSG2gLyogSeccmfko2rO15V/UCUF1Rhk04!Q1zk
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13320

Hi Paul,

try Consolidated Electronics, Ceitron.com
http://www.ceitron.com/semi/ceimitsubishi.html

Regards,
Paul WD8OSU

Paul Ferguson wrote:
> I have a DSW-II-20 QRP rig that needs a replacement RF power
> transistor type 2SC1971 in a TO-220 package.
>
> I have looked at places I order from like Mouser, Digikey, Newark, but
> they do not have it. I need only a quantity of one but will buy 2.
>
> Does anyone know of a source?
>
> Paul
> K5ESW

From 5778585297570592379
X-Google-Thread: fc2a5,f8437dfee808aa89
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z28g2000prd.googlegroups.com!not-for-
mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need 2SC1971 transistor in TO-220
Date: 25 May 2007 12:55:51 -0700
Organization: http://groups.google.com
Lines: 21
Message-ID: <1180122951.468795.118950@z28g2000prd.googlegroups.com>
References: <g6ud53l5rreqp4buq5l8m5pvkfppmj1vlk@4ax.com>

```
NNTP-Posting-Host: 222.155.189.220
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1180122966 28788 127.0.0.1 (25 May 2007 19:56:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 25 May 2007 19:56:06 +0000 (UTC)
In-Reply-To: <g6ud53l5rreqp4buq5l8m5pvkfppmj1vlk@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: z28g2000prd.googlegroups.com; posting-host=222.155.189.220;
   posting-account=0vCTfAwAAACvA6pNXnot7Fa7QcUC1A3e
Xref: g2news1.google.com rec.radio.amateur.homebrew:13321

Hi Paul,

Mouser, 526-NTE342 apparently a direct replacement.

Regards,

-Mark

On May 26, 2:58 am, Paul Ferguson <P...@PaulFerguson.us> wrote:
> I have a DSW-II-20 QRP rig that needs a replacement RF power
> transistor type 2SC1971 in a TO-220 package.
>
> I have looked at places I order from like Mouser, Digikey, Newark, but
> they do not have it. I need only a quantity of one but will buy 2.
>
> Does anyone know of a source?
>
> Paul
> K5ESW




From 5703371240165062894
X-Google-Thread: fc2a5,a5a0d93f28aad106
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Nobody <nobody@frontier.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: THE UNION MAKES THE FORCE
Date: 25 May 2007 22:36:45 GMT
Lines: 10
Message-ID: <slrnf5ep7t.uri.bit-bucket@shell.config.com>
References: <1180064295.952456.198780@h2g2000hsg.googlegroups.com>
<MKCdnRhrCIwpb8vbnZ2dnUVZ_oOknZ2d@comcast.com>
X-Trace: individual.net +3WHNAcjDugpJ6rD6NlSmAbTvZDmYHQd8Kp39MSi2qAzlHBJw7
```

User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:13322

On Fri, 25 May 2007 10:29:44 -0400, John Doe wrote:
> And just what does this SPAM have to do with homebrewing?
>
> This is the problem with the UNMODERATED NG's on the internet - you keep
> getting all this CRAP!!!!

Another problem with the UNMODERATED NG's on the
internet is that too many clowns continue to
REPOST THE ENTIRE F***ING, UNTRIMMED SPAM PAYLOAD
in their useless followups.

From -3479600979071083371
X-Google-Thread: fc2a5,f8437dfee808aa89
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 25 May 2007 19:12:27 -0500
Date: Sat, 26 May 2007 00:12:27 +0000
From: Scott <acepilot@bloomer.net>
Reply-To: acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need 2SC1971 transistor in TO-220
References: <g6ud53l5rreqp4buq5l8m5pvkfppmj1vlk@4ax.com>
In-Reply-To: <g6ud53l5rreqp4buq5l8m5pvkfppmj1vlk@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Lc-dna1h6If25srbnZ2dnUVZ_urinZ2d@bright.net>
Lines: 30
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
OZaiAH0hJ0zWW1gq5SsnomUH6kCStjyMl1RX8dgIz5UNZtu7sRtvGHvqmky8WCZFAPEWtf2Ro+31rvZ!
a4botyyQg5Fzlx7erEn/OL4vw8kMgrgPFxl6EacRrhORzgLEiMFLpgdxU2TpTPc9YQrGNeSToLCR!
vygjLdJccA==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13323

I do, but their website says "call for availability"...

http://www.rfparts.com/2sc.html#1906

Good luck...

Scott
Ibanez Destroyer DT-200

Paul Ferguson wrote:

> I have a DSW-II-20 QRP rig that needs a replacement RF power
> transistor type 2SC1971 in a TO-220 package.
>
> I have looked at places I order from like Mouser, Digikey, Newark, but
> they do not have it. I need only a quantity of one but will buy 2.
>
> Does anyone know of a source?
>
> Paul
> K5ESW

--
Scott
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)

From -1047162355769829016
X-Google-Thread: fc2a5,94e231293aad0714,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!wn14feed!
worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: TUBES,THRUST BEARING,PARTS...
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <d0L5i.49400$p47.42813@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: 58f7339b7bf2009496c6462bb69cbd17
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1180138633
58f7339b7bf2009496c6462bb69cbd17 (Sat, 26 May 2007 00:17:13 GMT)
NNTP-Posting-Date: Sat, 26 May 2007 00:17:13 GMT
Organization: AT&T Worldnet
Date: Sat, 26 May 2007 00:17:13 GMT

```
Xref: g2news1.google.com rec.radio.amateur.homebrew:13324

Have several NOS receive type tubes, NEW Glen Martin thrust bearing, as
well as parts. Much more stuff coming. Check back often.See at:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

Tnx for looking, Heytubeguy




From -2665717405887506586
X-Google-Thread: fc2a5,f8437dfee808aa89
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!22484013!not-for-mail
From: Paul Ferguson <Paul@PaulFerguson.us>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need 2SC1971 transistor in TO-220
Reply-To: Paul@PaulFerguson.us
Message-ID: <701f539h53ptb6si4jdb7r42mo8b8t50ni@4ax.com>
References: <g6ud53l5rreqp4buq5l8m5pvkfppmj1vlk@4ax.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 7
Date: Sat, 26 May 2007 00:51:48 GMT
NNTP-Posting-Host: 66.32.43.104
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1180140708 66.32.43.104 (Fri, 25 May
2007 17:51:48 PDT)
NNTP-Posting-Date: Fri, 25 May 2007 17:51:48 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13325

Thanks for the replies. I was also able to contact K1SWL, who designed
and sold the DSW-II units. He said the 2SC1971 is now obsolete.and he
is currently supplying the MRF261 in its place.

73,
Paul
K5ESW


From -6932889147601983757
X-Google-Thread: fc2a5,69115af0de411881
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!sn-xt-sjc-03!sn-
```

xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self Osc Problem
Date: Sat, 26 May 2007 10:02:25 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <135gmgoep9oa241@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <1357jv4id3bka8a@corp.supernews.com>
<1179899716.035321.137600@u30g2000hsc.googlegroups.com>
<1358g2fhsn5710d@corp.supernews.com>
<1180012637.056712.283780@q69g2000hsb.googlegroups.com>
<135cplip463voa8@corp.supernews.com>
<1180099320.995657.204340@a35g2000prd.googlegroups.com>
In-Reply-To: <1180099320.995657.204340@a35g2000prd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 53
Xref: g2news1.google.com rec.radio.amateur.homebrew:13326

Andrew VK3BFA wrote:

>and
> didn't know there was a VR150(was it?)

That was before I added it. Strangely, it works about as well without it.

> How about a photo of the latest metal attempt? - remember, if it looks
> nice and neat, it doesn't really matter if it don't work too good....

I just posted one to http://schmidling.com/807b.jpg

Unfortunately, it now looks better than it works.

> Hah! - silly man - NOW you have to get the VFO stable, as well as all
> the other problems.

I faded out of ham radio because it was boring me to death once I "moved up" to a rice box. My born-again career keeps me interested because hardly anything works very well.

I finally gave up on keying the oscillator because of chirp but now it drifts so badly, I still can't use it.

It's an interesting problem though that sort of defies my analytical skills.

When I turn on the osc, it drifts up several hundred cycles in a few seconds and stops. I can find no voltage changing like that, I moved all the hot stuff out just to test that and I am stumped. It seems like it is in the tube itself.

I am now keying the grid bias of the osc and there is no chirp but it does that several second climb that would be frowned upon.

Long term stability is another problem but in the noise at this point.

Do you or anyone happen to have a couple of 1000 pf zero TC caps? I am using cheapo ceramics and they are not so good. Blowing on them through a straw has a rather profound effect on the freq.

Interestingly, if I hook it up to a Variac, I don't get 200 hz change until I get below 75VAC. This is rather amazing to me and points to a temp rather than voltage problem.

BTW, this started out as an exciter for the 8000 rig but I have since gotten the bug to make a CW rig out of it. Again, the rice box is too perfect in that mode also for my interest.

js

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

From -5258569349093314922
X-Google-Thread: fc2a5,69115af0de411881
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o11g2000prd.googlegroups.com!not-for-mail
From: Andrew VK3BFA <ablight@alphalink.com.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self Osc Problem
Date: 27 May 2007 00:49:21 -0700
Organization: http://groups.google.com
Lines: 24
Message-ID: <1180252161.608392.313250@o11g2000prd.googlegroups.com>
References: <1357jv4id3bka8a@corp.supernews.com>
   <1179899716.035321.137600@u30g2000hsc.googlegroups.com>
   <1358g2fhsn5710d@corp.supernews.com>
   <1180012637.056712.283780@q69g2000hsb.googlegroups.com>
   <135cplip463voa8@corp.supernews.com>
   <1180099320.995657.204340@a35g2000prd.googlegroups.com>
   <135gmgoep9oa241@corp.supernews.com>
NNTP-Posting-Host: 218.215.131.123
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180252170 16114 127.0.0.1 (27 May 2007 07:49:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 27 May 2007 07:49:30 +0000 (UTC)
In-Reply-To: <135gmgoep9oa241@corp.supernews.com>
User-Agent: G2/1.0

```
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.3) Gecko/
20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o11g2000prd.googlegroups.com; posting-host=218.215.131.123;
   posting-account=EWANPAwAAAAIMf8u_DoGHaMCx0gCEW5D
Xref: g2news1.google.com rec.radio.amateur.homebrew:13327

On May 27, 2:02 am, Jack Schmidling <a...@mc.net> wrote:
>
>
> I just posted one tohttp://schmidling.com/807b.jpg
>
> Unfortunately, it now looks better than it works.

And it LOOKS very nice...why no shielding around the vfo assembly? -
the sudden temp druft is possibly something suddenly stabilizing as it
warms up - BTW - polystyrene caps are a better substitute for disc
ceramics, especially old ones...
>
>
> I faded out of ham radio because it was boring me to death once I "moved
> up" to a rice box.  My born-again career keeps me interested because
> hardly anything works very well.

Good one- their the things that provide real satisfaction, the sort
that cant be bought...
>
good luck- keep us posted on progress.....

73 de vk3bfa Andrew



From 5896842315726077941
X-Google-Thread: fc2a5,a362892215ef985a,start
X-Google-Thread: fc8b1,a362892215ef985a,start
X-Google-Thread: 108122,a362892215ef985a,start
X-Google-Thread: 111d0a,a362892215ef985a,start
X-Google-Thread: 113975,a362892215ef985a,start
X-Google-Attributes: gidfc2a5,gidfc8b1,gid108122,gid111d0a,gid113975,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g4g2000hsf.googlegroups.com!not-for-
mail
From: bill.meara@gmail.com
Newsgroups: 
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.amateur.equipme
nt,sci.electronics.basics,sci.astro.amateur
Subject: SolderSmoke #60:  Eric of Elecraft on the K3. AGC. Noise and power meters
Date: 27 May 2007 02:36:00 -0700
Organization: http://groups.google.com
Lines: 49
Message-ID: <1180258559.969517.64720@g4g2000hsf.googlegroups.com>
NNTP-Posting-Host: 86.142.204.149
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Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180258563 31554 127.0.0.1 (27 May 2007 09:36:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 27 May 2007 09:36:03 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=86.142.204.149;
   posting-account=7vRsuQwAAADlh58wGAIfEFYQRw36eW7d
Xref: g2news1.google.com rec.radio.amateur.homebrew:13328 rec.radio.amateur.boatanchors:11773 rec.radio.amateur.equipment:12089 sci.electronics.basics:54086 sci.astro.amateur:80710

SolderSmoke!
A SHOW FOR ELECTRONICS HOMEBREWERS!

http://www.soldersmoke.com

Listen at: http://www.soldersmoke.com

SolderSmoke #60

May 27, 2007 Tesla,Google,the Elser-Mathes cup and SolderSmoke.
AGC (Automatic Gong Control).
Free Tech Books.
WIKI-ZOI.
Noise and the W7ZOI power meter.
LA3PNA designing DC receiver with AD831 chip.
Kanga Special on EMRFD.
New Video: Huge Tesla Coils.
MORE DAYTON FDIM INTERVIEWS: Jeff, K8GD, winner of homebrew contest.
Eric Swartz, WA6HHQ, of Elecraft TALKS ABOUT THE K3.
John, WB8RCR, on micros, Dayton, and seeing old friend

Tired of listening to Busted or NPR on your I-Pod?   Wouldn't you like to be able to carry with you the kinds of ham radio conversations that you listen to while in your radio shack? Tune in to SolderSmoke!

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http://www.soldersmoke.com/soldersmoke.rss

If you don't have an MP3 player you can just go to the site below and listen to the latest program (and earlier editions) using the audio software on your computer.

```
http://www.soldersmoke.com

All the programs are available here.

I hope you enjoy the program.  Please send us
feedback.

73 from London
Bill M0HBR N2CQR CU2JL
http://www.gadgeteer.us




From -5870025750816794915
X-Google-Thread: fc2a5,558bab1ff89f15fb
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!news.germany.com!aioe.org!not-for-mail
From: "Heriberto" <lu6dbu@cybertap.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: BY1-1 and 01-043A RF Transistors data need
Date: Mon, 28 May 2007 00:27:19 -0300
Organization: Aioe.org NNTP Server
Lines: 46
Message-ID: <f3dhcb$3ev$1@aioe.org>
References: <1179429926.704411.42840@w5g2000hsg.googlegroups.com>
<Xj63i.107516$NK5.47401@newsfe23.lga>
<1179450293.141888.256690@e65g2000hsc.googlegroups.com>
NNTP-Posting-Host: kDFHpQ//BL19Cp511z4hTg.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
X-Priority: 3
X-Newsreader: Microsoft Outlook Express 5.00.2919.6600
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:13329

Sorry:
         The transistor is BYI-1 L
         I Believe it is a control bias for the RF amplifier.-
         REgards
<tapalquedeayer@gmail.com> escribi� en el mensaje
news:1179450293.141888.256690@e65g2000hsc.googlegroups.com...
> On 17 Mag, 21:20, "Uncle Peter" <radioconnect...@cox.net> wrote:
> > <tapalquedea...@gmail.com> wrote in message
> >
> > news:1179429926.704411.42840@w5g2000hsg.googlegroups.com...
> >
> > > Hi All:
> > >           I have some transistors of RF BY1-1 and 01-043A, but I do
> > > not have its data sheets. - Somebody can say where to find something
> > > to me on this?
> > > Thanks in advance
> > > Greetings
> >
> > > Heriberto
> > > LU6DBU
> >
> > Heriberto
> >
> > Try NTEINC.com for a cross reference for the 01-043A transistor.
> > NTE-349 looks close, and the PDF for the device is available online.
> >
> > The other part (BY1-1) seems incomplete, is there a Z or T after the
> > 1?  I think that was an older Acrian RF transistor. Those look like
> > REPCO part numbers.
> >
> > RF Parts shows the BY1-1 in their catalog. Perhaps they  might be
> > able to give you advice regarding the nearest cross reference if you
> > email them.
> >
> > Pete  k1zjh
>
> Hello Peter:
> Thanks for your aid. The BY1-1 is a R.F. transistor  for P.A., made by
> CTC, but I do not have but data. -
> It will continue looking for. -
> Greetings
> Heriberto
> LU6DBU
>
```

```
From -3633892780152090662
X-Google-Thread: fc2a5,2fa66d58d814e106,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!aioe.org!not-for-mail
From: "Heriberto" <lu6dbu@cybertap.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: The TRANSISTOR IS  BYI-1 L
Date: Mon, 28 May 2007 00:29:21 -0300
Organization: Aioe.org NNTP Server
Lines: 7
Message-ID: <f3dhg5$3uq$1@aioe.org>
NNTP-Posting-Host: kDFHpQ//BL19Cp511z4hTg.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
X-Priority: 3
X-Newsreader: Microsoft Outlook Express 5.00.2919.6600
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:13330

I need data sheet this transistor: BYI-1 L
```

Thanks in advance

Heriberto

```
From 2290507932685566241
X-Google-Thread: fc2a5,54780dcdccc14b43,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p47g2000hsd.googlegroups.com!not-for-
mail
From: lw1ecp <danyperez1@yahoo.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Varactor dipper
Date: 27 May 2007 20:42:02 -0700
Organization: http://groups.google.com
Lines: 15
Message-ID: <1180323722.467728.144750@p47g2000hsd.googlegroups.com>
NNTP-Posting-Host: 190.136.255.147
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180323722 14498 127.0.0.1 (28 May 2007 03:42:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 28 May 2007 03:42:02 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; MEGAUPLOAD 1.0),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p47g2000hsd.googlegroups.com; posting-host=190.136.255.147;
   posting-account=YKj2jA0AAAAF85ssE8WTvzzuJs1ussNt
Xref: g2news1.google.com rec.radio.amateur.homebrew:13331
```

Hi!. I am trying to devise a varactor (varicap) tuned dip meter, that
can also work as wavemeter by turning the oscillator off.
The target is to reach up to 1GHz by exchanging coils (each with its
own complete oscillator), but needing as few as possible of them.
The main problem with the prototype is at the low end of each band:
even with back-to-back diodes, the RF amplitude goes lower giving a
false broad dip illusion. This also causes the freq scale divisions
for the dipper do not match those for the passive wavemeter.
Trying to reduce amplitude with some automatic level control often
gives rise to low f oscillations.
Any idea on low and stable amplitude oscillators?. I've already looked
up in the group and the web.
73s & DXs
Daniel Perez LW1ECP

```
From -6967384371775217З0
X-Google-Thread: fc2a5,3303cc0d209adeff
```

```
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!h2g2000hsg.googlegroups.com!not-for-
mail
From: lw1ecp <danyperez1@yahoo.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VFO.... Zero TC caps
Date: 27 May 2007 21:04:29 -0700
Organization: http://groups.google.com
Lines: 14
Message-ID: <1180325069.420988.91950@h2g2000hsg.googlegroups.com>
References: <134vkhon42648a0@corp.supernews.com>
NNTP-Posting-Host: 190.136.255.147
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180325081 15402 127.0.0.1 (28 May 2007 04:04:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 28 May 2007 04:04:41 +0000 (UTC)
In-Reply-To: <134vkhon42648a0@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; MEGAUPLOAD 1.0),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h2g2000hsg.googlegroups.com; posting-host=190.136.255.147;
   posting-account=YKj2jA0AAAAF85ssE8WTvzzuJs1ussNt
Xref: g2news1.google.com rec.radio.amateur.homebrew:13332

On 20 mayo, 01:44, Jack Schmidling <a...@mc.net> wrote:
> I am in need of zero tc caps for my VFO project
> I need two at 1000 pf.
Polystirene (styroflex) capacitors are a good choice. They have a
desirable slightly negative temperature coefficient, and excellent Q.
1000pF is within the spectrum of usual values.
Or you may choose a bunch of NP0 ceramics in parallel, plus ~1/20th of
the total value made up of a N750 (-750ppm/centigrade) capacitor. Many
paralleled caps are better than a single multilayer unit because heat
(yes, real life caps do heat somewhat in oscillators) is better
dissipated away, thus reducing one of the drift causes.
73s and DXs
Daniel Perez LW1ECP




From 7853155883876931013
X-Google-Thread: fc2a5,e1d3305d8ab47b5f,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n15g2000prd.googlegroups.com!not-for-
mail
From: afarhan@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: A Homebrewer's Blog
Date: 27 May 2007 21:53:27 -0700
```

Organization: http://groups.google.com
Lines: 5
Message-ID: <1180328007.878025.91940@n15g2000prd.googlegroups.com>
NNTP-Posting-Host: 59.93.82.10
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180328021 23141 127.0.0.1 (28 May 2007 04:53:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 28 May 2007 04:53:41 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.3)
Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n15g2000prd.googlegroups.com; posting-host=59.93.82.10;
   posting-account=y96d7g0AAAB4dBTAX5RccStrVjD68gFw
Xref: g2news1.google.com rec.radio.amateur.homebrew:13333

I have started a blog on homebrewing at straightkey.blogspot.com. The
first post discusses setting up a Homebrew lab.
I would love to have everybody's comments.
- farhan

From 3561479113715762212
X-Google-Thread: fc2a5,3303cc0d209adeff
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 28 May 2007 06:47:12 -0500
Date: Mon, 28 May 2007 12:47:06 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.0 (X11/20070522)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VFO.... Zero TC caps
References: <134vkhon42648a0@corp.supernews.com>
<1180325069.420988.91950@h2g2000hsg.googlegroups.com>
In-Reply-To: <1180325069.420988.91950@h2g2000hsg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <1q6dnbbDR-jdXMfbnZ2dnUVZ8t-nnZ2d@pipex.net>
Lines: 24
NNTP-Posting-Host: 81.179.118.31
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T353UF/K4lAR!+oyQ7RDYPO2VwemHYJJ0d713XZK+a+9jIDcwn/
ufv8shePsjSKeuEJ9iskwKR3UHww6WtXGq4fBn!dtX1mfdBj5yMoPf6LJOCdYjpXQ==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint

```
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13334

  Polystirene (styroflex) capacitors are a good choice. They have a
> desirable slightly negative temperature coefficient, and excellent Q.
> 1000pF is within the spectrum of usual values.
> Or you may choose a bunch of NP0 ceramics in parallel, plus ~1/20th of
> the total value made up of a N750 (-750ppm/centigrade) capacitor. Many
> paralleled caps are better than a single multilayer unit because heat
> (yes, real life caps do heat somewhat in oscillators) is better
> dissipated away, thus reducing one of the drift causes.
> 73s and DXs
> Daniel Perez LW1ECP
==================================
I support the above opinion ,having made a simple FET based vfo for
3.5-38 MHz which serves as a training tool for the UK Intermediate
Licence practical assessment ,for which trainees have to calibrate a vfo
against a receiver and/or frequency counter.

The VFO was made (semi-ugly style) on PCB board with 'ground' holes
drilled for upright grounded components ,with the other lead to support
the relevant non-grounded components resulting in the shortest possible
interconnections.
Using polystyrene caps and with the VFO not having any buffer stage the
device fed by a 9v PP battery drifts not more than 20 Herz in 30 minutes.

Frank      GM0CSZ / KN6WH


From -6972536562025033174
X-Google-Thread: fc2a5,c6952e267980e9d7,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!wn12feed!
worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: NOS GLEN MARTIN THRUST BEARING+ MO
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <dLz6i.33309$Sa4.7829@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: efa95e36c37dff70c87ecd0c981027da
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1180354633
efa95e36c37dff70c87ecd0c981027da (Mon, 28 May 2007 12:17:13 GMT)
NNTP-Posting-Date: Mon, 28 May 2007 12:17:13 GMT
Organization: AT&T Worldnet
Date: Mon, 28 May 2007 12:17:13 GMT
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:13335

NOS, MINT GLEN MARTIN THRUST BEARING (+ other stuff)- don't let this get away. Listed for less than half price. See at:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

Tnx, 73 Heytubeguy

From -6767051650741828961
X-Google-Thread: fc2a5,3303cc0d209adeff
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <134vkhon42648a0@corp.supernews.com> <1180325069.420988.91950@h2g2000hsg.googlegroups.com> <1q6dnbbDR-jdXMfbnZ2dnUVZ8t-nnZ2d@pipex.net>
Subject: Re: VFO.... Zero TC caps
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <0xA6i.136748$_c5.91625@attbi_s22>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1180357820 12.219.135.201 (Mon, 28 May 2007 13:10:20 GMT)
NNTP-Posting-Date: Mon, 28 May 2007 13:10:20 GMT
Organization: AT&T ASP.att.net
Date: Mon, 28 May 2007 13:10:20 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13336

> Using polystyrene caps and with the VFO not having any buffer stage the
> device fed by a 9v PP battery drifts not more than 20 Herz in 30 minutes.
>
> Frank   GM0CSZ / KN6WH

What kind of battery is a 9v PP battery? And, it would likely be helpful to know what the Inductor is that the negative temperature coefficient of the poly cap is compensating for. Is that drift specification for the first 30 minutes after turn on or after the oscillator has been on for a couple of days?

W4ZCB

From -2316758049140970231
X-Google-Thread: fc2a5,3303cc0d209adeff
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-04!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VFO.... Zero TC caps
Date: Mon, 28 May 2007 07:11:45 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <135ll8ln92g182c@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <134vkhon42648a0@corp.supernews.com> <1180325069.420988.91950@h2g2000hsg.googlegroups.com> <1q6dnbbDR-jdXMfbnZ2dnUVZ8t-nnZ2d@pipex.net>
In-Reply-To: <1q6dnbbDR-jdXMfbnZ2dnUVZ8t-nnZ2d@pipex.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 16
Xref: g2news1.google.com rec.radio.amateur.homebrew:13337

Highland Ham wrote:

> I support the above opinion ,having made a simple FET based vfo for
> 3.5-38 MHz..........
> Using polystyrene caps and with the VFO not having any buffer stage the
> device fed by a 9v PP battery drifts not more than 20 Herz in 30 minutes.

Any chance of a schematic and/or pics?

Sounds interesting.

Jack K9ACT

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

From 6787756529725635328
X-Google-Thread: fc2a5,2fa66d58d814e106
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!

```
cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc03.POSTED!3eccad07!
not-for-mail
From: Dan Rae <danrae@verizonEXTRACTTHIS.net>
Reply-To:  danrae@verizonEXTRACTTHIS.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The TRANSISTOR IS  BYI-1 L
References: <f3dhg5$3uq$1@aioe.org>
In-Reply-To: <f3dhg5$3uq$1@aioe.org>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 9
Message-ID: <b%A6i.884$WZ6.598@trnddc03>
Date: Mon, 28 May 2007 13:42:31 GMT
NNTP-Posting-Host: 71.106.163.182
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc03 1180359751 71.106.163.182 (Mon, 28 May 2007 09:42:31 EDT)
NNTP-Posting-Date: Mon, 28 May 2007 09:42:31 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13338

Heriberto wrote:
> I need data sheet this transistor: BYI-1 L
>
It is a "Byistor". They were made by CTC for biassing linear RF
amplifiers  around 30 years ago.  It may look like a transistor, but
it's a temperature compensated bias supply device.
73
Dan
ac6ao



From -9117514665189763680
X-Google-Thread: fc2a5,2fa66d58d814e106
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!proxad.net!fdn.fr!club-internet.fr!
feedme-small.clubint.net!newsfeed.freenet.de!news.n-ix.net!news2.arglkargh.de!
news.mixmin.net!aioe.org!not-for-mail
From: "Heriberto" <lu6dbu@cybertap.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The TRANSISTOR IS  BYI-1 L
Date: Mon, 28 May 2007 11:36:21 -0300
Organization: Aioe.org NNTP Server
Lines: 19
Message-ID: <f3eoqa$r13$1@aioe.org>
References: <f3dhg5$3uq$1@aioe.org> <b%A6i.884$WZ6.598@trnddc03>
NNTP-Posting-Host: kDFHpQ//BL19Cp511z4hTg.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
X-Priority: 3
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X-Newsreader: Microsoft Outlook Express 5.00.2919.6600
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:13339

Thanks Dan!!!

REgards

Heriberto
LU6DBU
"Dan Rae" <danrae@verizonEXTRACTTHIS.net> escribi� en el mensaje
news:b%A6i.884$WZ6.598@trnddc03...
> Heriberto wrote:
> > I need data sheet this transistor: BYI-1 L
> >
> It is a "Byistor". They were made by CTC for biassing linear RF
> amplifiers around 30 years ago. It may look like a transistor, but
> it's a temperature compensated bias supply device.
> 73
> Dan
> ac6ao

From -6106542237607029611
X-Google-Thread: fc2a5,2fa66d58d814e106
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.newsland.it!
aioe.org!not-for-mail
From: "Heriberto" <lu6dbu@cybertap.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The TRANSISTOR IS BYI-1 L
Date: Mon, 28 May 2007 11:40:22 -0300
Organization: Aioe.org NNTP Server
Lines: 21
Message-ID: <f3eoqc$r13$2@aioe.org>
References: <f3dhg5$3uq$1@aioe.org> <b%A6i.884$WZ6.598@trnddc03>
NNTP-Posting-Host: kDFHpQ//BL19Cp511z4hTg.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
X-Priority: 3
X-Newsreader: Microsoft Outlook Express 5.00.2919.6600
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:13340

Thanks Dan!!!

REgards

Heriberto
LU6DBU

"Dan Rae" <danrae@verizonEXTRACTTHIS.net> escribi� en el mensaje
news:b%A6i.884$WZ6.598@trnddc03...
> Heriberto wrote:
> > I need data sheet this transistor: BYI-1 L
> >
> It is a "Byistor". They were made by CTC for biassing linear RF
> amplifiers around 30 years ago. It may look like a transistor, but
> it's a temperature compensated bias supply device.
> 73
> Dan
> ac6ao

```
From 9180064652047281756
X-Google-Thread: fc2a5,3303cc0d209adeff
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 28 May 2007 09:42:19 -0500
Date: Mon, 28 May 2007 15:42:12 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.0 (X11/20070522)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VFO.... Zero TC caps
References: <134vkhon42648a0@corp.supernews.com>
<1180325069.420988.91950@h2g2000hsg.googlegroups.com> <1q6dnbbDR-jdXMfbnZ2dnUVZ8t-
nnZ2d@pipex.net> <0xA6i.136748$_c5.91625@attbi_s22>
In-Reply-To: <0xA6i.136748$_c5.91625@attbi_s22>
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Message-ID: <v4qdncWPZcDWd8fbnZ2dnUVZ8qKvnZ2d@pipex.net>
Lines: 52
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X-Trace: sv3-pwcyadhwXD4IV/dQgZL5UvkDLVzxJk+/
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xtuCeKqCn8tuwFIQyzUYC5sApzJhdQvrCoCsrCmHcLjM8U9sGoNMczzarv!Je4nDB9jX8en/
njZtwlpzFL88g==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13341
```

>> Using polystyrene caps and with the VFO not having any buffer stage the

>> device fed by a 9v PP battery drifts not more than 20 Herz in 30 minutes.

>
> What kind of battery is a 9v PP battery? And, it would likely be helpful to know what the Inductor is that the negative temperature coefficient of the poly cap is compensating for. Is that drift specification for the first 30 minutes after turn on or after the oscillator has been on for a couple of days?

A 9v PP battery is a standard battery pack , alkaline /NiCad / NiMH as used in all sorts of consumer electronics incl battery operated smoke alarm devices.   Dimensions :45x25x17 mm. Available all over the world.
The battery is 'velcro-ed' to empty space on the board
I did not use dedicated neg temp coeff components ,but used 4 recycled polystyrene caps from the junk box.

FET is 2N3819   but any other HF FET would do.
The tuning cap is a air variable cap (old style trimmer ,silver plated plates and ceramic body) with added reduction gear/scale in front panel.
Adjustable inductor with core is from Toko .It is mounted on its side, soldered to PCB material plane.
There is a compact foil trimmer for fine adjustment

Since double sided PCB board was used , I drilled many holes in the material and soldered through hole pieces of wire ,such that the 2 copper planes are connected at many places.

The 20 Hz stability is reached after applying power to the circuit for approx 20 minutes in a room with a stable temp.

The power supply connection to the circuit is via an insulated pin which sits on a tiny board island (having used a special PCB foil cutter which removes a tiny ring of copper material) .
Although I also could have used an upright 10 MegaOhms (1/4 W) resistor serving as pin and 'insulator'.

The unit is built onto an 2mm thick piece of aluminium bent as an L

Summarising : A typical little project using predominently junk box components,   with success resulting from using RF friendly components and shortest possible connections between frequency determining elements.

I don't have a web site to post to ,but can take a pic and send it to those interested, by email

You can contact me by e-mail by removing abcxyz from my NG address

Frank   GM0CSZ / KN6WH

now almost fully migrated to Linux (using Mandriva 2007.1 distro)

From -4519165316395708667
X-Google-Thread: fc2a5,3303cc0d209adeff
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <134vkhon42648a0@corp.supernews.com> <1180325069.420988.91950@h2g2000hsg.googlegroups.com> <1q6dnbbDR-jdXMfbnZ2dnUVZ8t-nnZ2d@pipex.net> <0xA6i.136748$_c5.91625@attbi_s22> <v4qdncWPZcDWd8fbnZ2dnUVZ8qKvnZ2d@pipex.net>
Subject: Re: VFO.... Zero TC caps
Lines: 42
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <UnD6i.75613$n_.298@attbi_s21>
NNTP-Posting-Host: 12.219.135.201
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1180369524 12.219.135.201 (Mon, 28 May 2007 16:25:24 GMT)
NNTP-Posting-Date: Mon, 28 May 2007 16:25:24 GMT
Organization: AT&T ASP.att.net
Date: Mon, 28 May 2007 16:25:24 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13342

"Highland Ham" <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote in message
news:v4qdncWPZcDWd8fbnZ2dnUVZ8qKvnZ2d@pipex.net...
>>> Using polystyrene caps and with the VFO not having any buffer stage the
>>> device fed by a 9v PP battery drifts not more than 20 Herz in 30
>>> minutes.
> ----------
>>
>> What kind of battery is a 9v PP battery? And, it would likely be helpful
>> to know what the Inductor is that the negative temperature coefficient of
>> the poly cap is compensating for. Is that drift specification for the
>> first 30 minutes after turn on or after the oscillator has been on for a
>> couple of days?
> -----------
> A 9v PP battery is a standard battery pack , alkaline /NiCad / NiMH as
> used in all sorts of consumer electronics incl battery operated smoke
> alarm devices.   Dimensions :45x25x17 mm. Available all over the world.
> The battery is 'velcro-ed' to empty space on the board
> I did not use dedicated neg temp coeff components ,but used 4 recycled
> polystyrene caps from the junk box.

And I assume that the PP means Peak to Peak. I'll acknowledge that a battery
has a peak Voltage, in this case, something close to 9 Volts. I doubt it
could be rated as Peak to Peak which would imply at least a couple of the

things wired back to back and providing around 18 Volts. (Peak to Peak
speaking of course, not Push Pull, cancelling even harmonics, or even
Push-Push, cancelling odd ones.)

The polys have a generally acknowledged negative temperature coefficient and
as such must be correcting for something. The inductor is an air wound
solenoid, wound on a toroid or perhaps a (for the frequency range spec'd)
quite long piece of coaxial cable?

If you observed 20 Hz of drift over a half hour, after a 20 minute warm up,
I would be inclined to ask as to the ambient temperature variation during
that 30 minute exercise.

W4ZCB
NOT linuxed, have enough trouble with Bill Gates's products.

From -8103680753293357520
X-Google-Thread: fc2a5,c04c3d3ccb863536,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!feeder.nmix.net!216.184.2.11.MISMATCH!iruka!not-for-mail
From: msix@nmia.com
Newsgroups: rec.radio.amateur.homebrew
Subject: FS: UTC S-74 de W7ZFB
Date: Mon, 28 May 2007 16:42:02 +0000 (UTC)
Organization: Southwest Cyberport
Lines: 6
Message-ID: <f3f0oq$ofs$1@iruka.swcp.com>
NNTP-Posting-Host: plato.nmia.com
X-Trace: iruka.swcp.com 1180370522 25084 64.42.128.47 (28 May 2007 16:42:02 GMT)
X-Complaints-To: usenet@iruka.swcp.com
NNTP-Posting-Date: Mon, 28 May 2007 16:42:02 +0000 (UTC)
Xref: g2news1.google.com rec.radio.amateur.homebrew:13343

Upright mounting
Fully enclosed in metal housing ala standard UTC practice
Primary 115VAC. Secondary 1250-0-1250 at 500ma
Size 6 x 7 x 7H, 24 lbs
$13 plus postage
73 John - Always good in QRZ

From 1321529497409549794
X-Google-Thread: fc2a5,3303cc0d209adeff
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!

nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 28 May 2007 12:32:42 -0500
Date: Mon, 28 May 2007 18:32:38 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.0 (X11/20070522)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VFO.... Zero TC caps
References: <134vkhon42648a0@corp.supernews.com>
<1180325069.420988.91950@h2g2000hsg.googlegroups.com> <1q6dnbbDR-jdXMfbnZ2dnUVZ8t-nnZ2d@pipex.net> <0xA6i.136748$_c5.91625@attbi_s22>
<v4qdncWPZcDWd8fbnZ2dnUVZ8qKvnZ2d@pipex.net> <UnD6i.75613$n_.298@attbi_s21>
In-Reply-To: <UnD6i.75613$n_.298@attbi_s21>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Vsadnfg1mcOnj8bbnZ2dnUVZ8sylnZ2d@pipex.net>
Lines: 46
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X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13344

Harold E. Johnson wrote:

> And I assume that the PP means Peak to Peak. I'll acknowledge that a battery has a peak Voltage, in this case, something close to 9 Volts. I doubt it could be rated as Peak to Peak which would imply at least a couple of the things wired back to back and providing around 18 Volts. (Peak to Peak speaking of course, not Push Pull, cancelling even harmonics, or even Push-Push, cancelling odd ones.)

========

PP is just an identification for this size of battery like AA and AAA
for 1.2/1.5 V cylindrical batteries

>
> The polys have a generally acknowledged negative temperature coefficient and as such must be correcting for something. The inductor is an air wound solenoid, wound on a toroid or perhaps a (for the frequency range spec'd) quite long piece of coaxial cable?

=======

The Toko inductor with adjustable core is a canned component frequently
used by homebrewers and still available . It comes in 3 model for
various frequency ranges. In Europe (and that includes Britain ;)) it is
particularly popular by the QRP community.

> If you observed 20 Hz of drift over a half hour, after a 20 minute warm up,
> I would be inclined to ask as to the ambient temperature variation during
> that 30 minute exercise.
==========
As stated in my previous message ,the above referred freq. drift was
observed at a stable room temperature. In fact it was in an underground
  civil defense bunker where a radio club is hosted by the local
Emergency Planning people(a sort of regional FEMA)

> NOT linuxed, have enough trouble with Bill Gates's products.
============================
Having problems with Bill Gates' bloatware is the best possible reason
to move to Linux ,which is free and can be freely and frequently updated
at umpteen repositories world wide.
It takes some effort ,since everything in Linux can be configured by the
users .   But that keeps the 'grey matter' in the head active .
Also Linux doesn't need the latest and fastest machine .
I run my system on a motherboard with a 1GHz Athlon processor and 1024MB
of RAM ,from AD 2001.
My advice : GOFOR Linux and enjoy !

Frank   GM0CSZ / KN6WH

From 2691653266591007175
X-Google-Thread: fc2a5,3303cc0d209adeff
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VFO.... Zero TC caps
Date: 28 May 2007 17:33:20 GMT
Organization: The National Capital FreeNet
Lines: 31
Message-ID: <f3f3p0$3nn$1@theodyn.ncf.ca>
References: <134vkhon42648a0@corp.supernews.com> <1180325069.420988.91950@h2g2000hsg.googlegroups.com> <1q6dnbbDR-jdXMfbnZ2dnUVZ8t-nnZ2d@pipex.net> <0xA6i.136748$_c5.91625@attbi_s22> <v4qdncWPZcDWd8fbnZ2dnUVZ8qKvnZ2d@pipex.net> <UnD6i.75613$n_.298@attbi_s21>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1180373600 3831 134.117.136.48 (28 May 2007 17:33:20 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 28 May 2007 17:33:20 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13345

"Harold E. Johnson" (W4ZCB@mchsi.com) writes:
> "Highland Ham" <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote in message
> news:v4qdncWPZcDWd8fbnZ2dnUVZ8qKvnZ2d@pipex.net...

```
>>>> Using polystyrene caps and with the VFO not having any buffer stage the
>>>> device fed by a 9v PP battery drifts not more than 20 Herz in 30
>>>> minutes.
>> ----------
>>>
>>> What kind of battery is a 9v PP battery? And, it would likely be helpful
>>> to know what the Inductor is that the negative temperature coefficient of
>>> the poly cap is compensating for. Is that drift specification for the
>>> first 30 minutes after turn on or after the oscillator has been on for a
>>> couple of days?
>> -----------
>> A 9v PP battery is a standard battery pack , alkaline /NiCad / NiMH as
>> used in all sorts of consumer electronics incl battery operated smoke
>> alarm devices.   Dimensions :45x25x17 mm.  Available all over the world.
>> The battery is 'velcro-ed' to empty space on the board
>
> And I assume that the PP means Peak to Peak.

No, it's the designator for the type of battery.  Just like there used
to be "A Cells" and "B Cells".  It's the common 9v battery, as he
explained.  They are simply refered to as "PP" in Europe, just as
they have A4 paper over there rather than the 8.5 by 11 inch paper
that's common in North America.

Get out the ruler, and you'll find that his dimensions match the
battery in your smoke detector.

  Michael  VE2BVW


From 2664033372354672836
X-Google-Thread: fc2a5,69115af0de411881
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o11g2000prd.googlegroups.com!not-for-
mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self Osc Problem
Date: 28 May 2007 11:43:56 -0700
Organization: http://groups.google.com
Lines: 46
Message-ID: <1180377836.778401.272840@o11g2000prd.googlegroups.com>
References: <1357jv4id3bka8a@corp.supernews.com>
   <1179899716.035321.137600@u30g2000hsc.googlegroups.com>
   <1358g2fhsn5710d@corp.supernews.com>
   <1180012637.056712.283780@q69g2000hsb.googlegroups.com>
   <135cplip463voa8@corp.supernews.com>
   <1180099320.995657.204340@a35g2000prd.googlegroups.com>
   <135gmgoep9oa241@corp.supernews.com>
   <1180252161.608392.313250@o11g2000prd.googlegroups.com>
NNTP-Posting-Host: 222.155.189.220
Mime-Version: 1.0
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 28 May 2007 18:44:12 +0000 (UTC)
In-Reply-To: <1180252161.608392.313250@o11g2000prd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o11g2000prd.googlegroups.com; posting-host=222.155.189.220;
   posting-account=0vCTfAwAAACvA6pNXnot7Fa7QcUC1A3e
Xref: g2news1.google.com rec.radio.amateur.homebrew:13346

Jack,

New chassis looks great, well done.

It looks like you have a white wire (Anode HT maybe) going to a meter
then through the chassis. This will need some serious de-coupling
(feed through cap) as it enters the chassis otherwise it is going to
radiate in the lower chassis which won't help with the stability
issues. A 'T filter' would be good here, 1mH above deck, a 10nF
feedthrough cap and 1mH below deck.

As Andrew mentions, you also have 'below deck' electronics 'above
deck' in the form of the VFO. This is going to need very tight
screening to avoid feedback and stability issues.

What frequency are you running this unit at - 14MHz ??

Any chance of some higher res photos looking from above the chassis
and from below ?

Regards,

Mark
On May 27, 7:49 pm, Andrew VK3BFA <abli...@alphalink.com.au> wrote:
> On May 27, 2:02 am, Jack Schmidling <a...@mc.net> wrote:
>
> > I just posted one tohttp://schmidling.com/807b.jpg
>
> > Unfortunately, it now looks better than it works.
>
> And it LOOKS very nice...why no shielding around the vfo assembly? -
> the sudden temp druft is possibly something suddenly stabilizing as it
> warms up - BTW - polystyrene caps are a better substitute for disc
> ceramics, especially old ones...
>
> > I faded out of ham radio because it was boring me to death once I "moved
> > up" to a rice box. My born-again career keeps me interested because
> > hardly anything works very well.
>
> Good one- their the things that provide real satisfaction, the sort

> that cant be bought...
>
> good luck- keep us posted on progress.....
>
> 73 de vk3bfa Andrew

From 8479905962513597024
X-Google-Thread: fc2a5,3303cc0d209adeff
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder3.cambrium.nl!feed.tweaknews.nl!
newsfeed.kamp.net!newsfeed.kamp.net!213.239.142.2.MISMATCH!feed.xsnews.nl!
border-1.ams.xsnews.nl!border1.nntp.ams.giganews.com!nntp.giganews.com!sn-xt-
ams-06!sn-xt-ams-03!sn-ams!sn-feed-ams-03!sn-post-ams-01!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VFO.... Zero TC caps
Date: Mon, 28 May 2007 15:16:37 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <135me3fqu2eh062@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <134vkhon42648a0@corp.supernews.com>
<1180325069.420988.91950@h2g2000hsg.googlegroups.com> <1q6dnbbDR-jdXMfbnZ2dnUVZ8t-
nnZ2d@pipex.net> <0xA6i.136748$_c5.91625@attbi_s22>
<v4qdncWPZcDWd8fbnZ2dnUVZ8qKvnZ2d@pipex.net> <UnD6i.75613$n_.298@attbi_s21>
<Vsadnfg1mcOnj8bbnZ2dnUVZ8sylnZ2d@pipex.net>
In-Reply-To: <Vsadnfg1mcOnj8bbnZ2dnUVZ8sylnZ2d@pipex.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 26
Xref: g2news1.google.com rec.radio.amateur.homebrew:13347

Highland Ham wrote:

> Also Linux doesn't need the latest and fastest machine .
> I run my system on a motherboard with a 1GHz Athlon processor and 1024MB
> of RAM ,from AD 2001.

To me that is a supercomputer class machine; linux kernel development
unfortunately is a moving target and your arrows had better be made of
recent generation silicon. For those of us who need to target old x86
(386, 486, PI, PII and PIII) and cpus in the embedded space, (ARM7, etc.)
I recommend researching the large number of alternative OSs available
including *BSD, OpenSolaris, various RTOSes like UCOS-II, FreeRTOS, eCOS,
opensource MS-DOS workalikes and others with much smaller footprints, for

amateur radio related work unless your intended user applications are
linux specific. If you are doing DSP or realtime development, I
urge you to consider an RTOS over any *ix.

The linux machines (x86, ARM7 and others) in my domain are all at 2.4.x
kernels due to the increasing requirements of newer kernel versions; in
fact I maintain some 0.9x and 1.x linux systems for special requirements
for their relative simplicity.

Regards,

Michael

From 9039969539529997975
X-Google-Thread: fc2a5,3303cc0d209adeff
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 28 May 2007 17:06:16 -0500
Date: Mon, 28 May 2007 23:06:13 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 2.0.0.0 (X11/20070522)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VFO.... Zero TC caps
References: <134vkhon42648a0@corp.supernews.com>
<1180325069.420988.91950@h2g2000hsg.googlegroups.com> <1q6dnbbDR-jdXMfbnZ2dnUVZ8t-
nnZ2d@pipex.net> <0xA6i.136748$_c5.91625@attbi_s22>
<v4qdncWPZcDWd8fbnZ2dnUVZ8qKvnZ2d@pipex.net> <UnD6i.75613$n_.298@attbi_s21>
<Vsadnfg1mcOnj8bbnZ2dnUVZ8sylnZ2d@pipex.net> <135me3fqu2eh062@corp.supernews.com>
In-Reply-To: <135me3fqu2eh062@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <9cWdnce-DdbEz8bbRVnyjgA@pipex.net>
Lines: 23
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ZX7xV3YHgO51uR37EEcLSnK33Ro3vr1hwqhT6fiUXyyEYtdjS4y+IIteKmqmYQMaCz1WRi0fazy5!
v+bRRozvAKGlzQ==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13348

> The linux machines (x86, ARM7 and others) in my domain are all at 2.4.x
> kernels due to the increasing requirements of newer kernel versions; in

> fact I maintain some 0.9x and 1.x linux systems for special requirements
> for their relative simplicity.

====================================
This thread has moved off-topic ....my fault , I included the word Linux
in an earlier message .

To most users Linux is just one of many operating systems being an Open
Source replacement for Windows . Nothing more ,nothing less.

It is the result of a rare phenomenon ;'international cooperation' among
hundreds if not thousands of volunteering (usually professional)
enthousiasts across the globe, who through the Internet formed Linux
communities which continue to flourish. This has resulted in an ever
improving operating system now available in a variety of distributions
constituting ultimate freedom, no longer the sole domain of 'geeks' but
of ordinary computer users.
I am glad having embraced Linux.

Frank   GM0CSZ / KN6WH

PS : My last words on this topic in this NG

From -4031280184738348434
X-Google-Thread: fc2a5,3303cc0d209adeff
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!sn-xt-sjc-02!sn-xt-sjc-09!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VFO.... Zero TC caps
Date: Mon, 28 May 2007 17:50:00 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <135mqlda35en009@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <134vkhon42648a0@corp.supernews.com> <1180325069.420988.91950@h2g2000hsg.googlegroups.com> <1q6dnbbDR-jdXMfbnZ2dnUVZ8t-nnZ2d@pipex.net> <0xA6i.136748$_c5.91625@attbi_s22> <v4qdncWPZcDWd8fbnZ2dnUVZ8qKvnZ2d@pipex.net> <UnD6i.75613$n_.298@attbi_s21> <Vsadnfg1mcOnj8bbnZ2dnUVZ8sylnZ2d@pipex.net>
In-Reply-To: <Vsadnfg1mcOnj8bbnZ2dnUVZ8sylnZ2d@pipex.net>
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Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 12
Xref: g2news1.google.com rec.radio.amateur.homebrew:13349

I can't seem to find polystyrene caps in DigiKey. Poly everything but
styrene.

NPO and COG seem to be synonymous and are defined at +/- 30 PPM/deg C. I find nothing called zero TC and the vast majority say nothing at all about TC.

js

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

```
From 5669014104110123705
X-Google-Thread: fc2a5,e1d3305d8ab47b5f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!sn-xt-sjc-03!sn-
xt-sjc-10!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-
mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: A Homebrewer's Blog
Date: Mon, 28 May 2007 18:30:34 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <135ndf2j1nr6e9a@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <1180328007.878025.91940@n15g2000prd.googlegroups.com>
In-Reply-To: <1180328007.878025.91940@n15g2000prd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 42
Xref: g2news1.google.com rec.radio.amateur.homebrew:13350
```

afarhan@gmail.com wrote:

> I have started a blog on homebrewing at straightkey.blogspot.com. The
> first post discusses setting up a Homebrew lab.
> I would love to have everybody's comments.

Here's mine but you probably won't like them.

What is the point of a blog? What does it do but detract from this group? I went there, read your interesting dissertation and would have commented but for having to sign up and putz with a web based format that is much less convenient than usenet or even yahoo.

Furthermore, unless you know some magic, you will never get more than a hand full participants.

....

I concur will all you said and find that the most interesting aspect of my renaissance in ham radio is being able to afford to buy real test equipment. Everything I did in my first life was with a barely usable multimeter, light bulbs on links and pencils for drawing arcs on RF nodes.

One thing that took me by surprise was the change in solder to the extent that I could hardly perform this most necessary craft when I ran out of 50 year old solder and bought a new roll.

It seems that Ralph Nader has barfed up this craft also. After finding a roll of real solder with tin and lead, things got a lot better. It still does not tin as neatly as the old stuff and most importantly, does not have that good old aroma that I recall from childhood.

I presume that what ever the current flux is, it just does not work or smell like rosin.

Any thoughts?

Jack K9ACT

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

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From 149298519249128787
X-Google-Thread: fc2a5,e10fc7dcbb1c033d,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
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in-02.newsfeed.easynews.com!easynews.com!easynews!sn-xt-sjc-02!sn-xt-sjc-09!sn-
post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Where there's smoke.....
Date: Mon, 28 May 2007 23:13:55 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <135ndknp01km80a@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13351

For the past two weeks, I have been noticing a burning smell coming from my rig   http://schmidling.com/radio.htm   when I buzzard.

I can not tell exactly which deck it is coming from but the power supply has no hint of the smell. This leaves the RF deck and the mod deck. I would have bet on the RF deck as it seems to come through the "window" (hole) in the front panel of that deck but a careful inspection shows not a hint of anything burning or even getting warm other than the tube. There isn't much there to get warm other than the fil trans and the little power trans for the bias supply and they are both cool to the touch.

This brings me to the mod deck and the only thing hot there is the fil trans. I have left the filaments burning for several hours and the smell never happens and the trans only gets moderately warm when not transmitting.

The mod deck is a pair of 813's, zero bias as triodes. The centertap of the fil trans is grounded through the meter.

The question is, what effect does the mod current have on the heat carrying capacity of the filament transformer? Are all 10v 10A trans equal? Does talking create heat in it and could this be the source of the smell?

Lacking a better choice, I bought it from Antique Ele for $54 incl shipping. Seems like a junky little thing compared to the one in the RF deck. It's a Hammond T167S10.

Any thoughts?

js
--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

---

From -3806345655518383631
X-Google-Thread: fc2a5,e1d3305d8ab47b5f
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out02a.usenetserver.com!news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny01.POSTED!0da99462!not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1180328007.878025.91940@n15g2000prd.googlegroups.com> <135ndf2j1nr6e9a@corp.supernews.com>
Subject: Re: A Homebrewer's Blog
Lines: 28
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
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Message-ID: <9rT6i.7365$4S5.3627@trndny01>
Date: Tue, 29 May 2007 10:41:09 GMT
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X-Trace: trndny01 1180435269 68.236.11.113 (Tue, 29 May 2007 06:41:09 EDT)
NNTP-Posting-Date: Tue, 29 May 2007 06:41:09 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13352

>What is the point of a blog? What does it do but detract from this group?
>I went there, read your interesting dissertation and would have commented
>but for having to sign up and putz with a web based format that is much
>less convenient than usenet or even yahoo.

Sounds like the rumblings of a grumpy, stodgy old fart!

A blog is a very good venue for posting information that's dynamic and frequently updated. It's a good hybrid between a very focused special-interest newsgroup and a full-blown web site. It's easy for the author to update frequently and It allows a measure of interaction between the writer and the readers. It can contain graphic images and file content that newsgroups and news readers don't want to be bothered with. It's especially good for chronicalling daily progress on projects and other regular postings that a newsgroup might find to be tedious and arcane. You don't have to register yourself if you just want to read it, so I'm not sure what the 'convenience' ran't is about.

A blog definitely has a 'point', and a homebrewer's blog written by someone with Farhan's credentials definitely has a place and a value. Keep up the good work Farhan.

Joe
W3JDR

From -6223079352238385246
X-Google-Thread: fc2a5,c04c3d3ccb863536
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!140.99.99.194.MISMATCH!news-in-02.newsfeed.easynews.com!easynews.com!easynews!hwmnpeer01.phx!news.highwinds-media.com!hw-filter.phx!newsfe11.phx.POSTED!53ab2750!not-for-mail
From: David L. Foreman <davelf11@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FS: UTC S-74 de W7ZFB
Organization: 2 Copy Site License
Message-ID: <amuo53p6a6e7n7rhk021h7j95nsc7jchqm@4ax.com>
References: <f3f0oq$ofs$1@iruka.swcp.com>

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X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 13
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NNTP-Posting-Host: 72.200.118.92
X-Complaints-To: admin@cox.net
X-Trace: newsfe11.phx 1180465917 72.200.118.92 (Tue, 29 May 2007 12:11:57 MST)
NNTP-Posting-Date: Tue, 29 May 2007 12:11:57 MST
Xref: g2news1.google.com rec.radio.amateur.homebrew:13353

On Mon, 28 May 2007 16:42:02 +0000 (UTC), msix@nmia.com wrote:

>Upright mounting
>Fully enclosed in metal housing ala standard UTC practice
>Primary 115VAC. Secondary 1250-0-1250 at 500ma
>Size 6 x 7 x 7H, 24 lbs
>$13 plus postage
>73 John - Always good in QRZ

John
I sent an email to your QRZ email address about the transformer.
Dave
KE7FZJ



From -2738383346012440233
X-Google-Thread: f64c6,27b71ba72241c6c1,start
X-Google-Thread: 107ada,27b71ba72241c6c1,start
X-Google-Thread: fc2a5,27b71ba72241c6c1,start
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-in.ntli.net!
newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe7-win.ntli.net.POSTED!53ab2750!not-for-mail
From: "The Legend" <trabant owners club@Nicks place.comco>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Car and Deep Cycle Battery FAQ
Lines: 14
Organization: Save the Welsh
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <Bib7i.5640$rW2.4371@newsfe7-win.ntli.net>
Date: Wed, 30 May 2007 09:17:21 GMT
NNTP-Posting-Host: 86.7.90.223
X-Complaints-To: http://www.virginmedia.com/netreport
X-Trace: newsfe7-win.ntli.net 1180516641 86.7.90.223 (Wed, 30 May 2007 10:17:21
BST)
NNTP-Posting-Date: Wed, 30 May 2007 10:17:21 BST
```

Xref: g2news1.google.com uk.radio.amateur:114701 rec.radio.amateur.misc:36184 rec.radio.amateur.homebrew:13354

Courtesy of another ng.

As all Amateurs use batteries in one form or another, this excellent site is well worth book marking.

The Car and Deep Cycle Battery FAQ Web pages have been moved. They are located at http://www.batteryfaq.org/. The latest version is 7.0, dated May 28, 2007.

HTH
tox

From -5214736589156187649
X-Google-Thread: fc2a5,54780dcdccc14b43
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Reply-To: "Wim Ton" <wton@bluewin.ch>
From: "Wim Ton" <wton@bluewin.ch>
Newsgroups: rec.radio.amateur.homebrew
References: <1180323722.467728.144750@p47g2000hsd.googlegroups.com>
Subject: Re: Varactor dipper
Date: Wed, 30 May 2007 19:01:50 +0200
Lines: 26
Organization: thuis
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1437
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1441
NNTP-Posting-Host: 85.1.159.101
X-Original-NNTP-Posting-Host: 85.1.159.101
Message-ID: <465dade8$1_1@news.bluewin.ch>
X-Trace: news.bluewin.ch 1180544488 85.1.159.101 (30 May 2007 19:01:28 +0200)
Complaints-To: abuse@bluewin.ch
X-Original-NNTP-Posting-Host: 127.0.0.1
Path: g2news1.google.com!news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wn12feed!worldnet.att.net!164.128.36.58!news.ip-plus.net!newsfeed.ip-plus.net!news.bluewin.ch!not-for-mail
Xref: g2news1.google.com rec.radio.amateur.homebrew:13355

"lw1ecp" <danyperez1@yahoo.com.ar> wrote in message news:1180323722.467728.144750@p47g2000hsd.googlegroups.com...
> Hi!. I am trying to devise a varactor (varicap) tuned dip meter, that
> can also work as wavemeter by turning the oscillator off.
> The target is to reach up to 1GHz by exchanging coils (each with its
> own complete oscillator), but needing as few as possible of them.

> The main problem with the prototype is at the low end of each band:
> even with back-to-back diodes, the RF amplitude goes lower giving a
> false broad dip illusion. This also causes the freq scale divisions
> for the dipper do not match those for the passive wavemeter.
> Trying to reduce amplitude with some automatic level control often
> gives rise to low f oscillations.
> Any idea on low and stable amplitude oscillators?. I've already looked
> up in the group and the web.
> 73s & DXs
> Daniel Perez LW1ECP
>

The German magazine Funk Amateur of April 2006 had a interesting design:
they modulated the oscillator with a 400 Hz FM and measure the oscillator
amplitude. At a 'dip' this is at a maximum. A can send a scan if you want
(in German of course)

Wim

From -2274890080343227148
X-Google-Thread: fc2a5,171d4f54318dbf0b,start
X-Google-Thread: 111d0a,171d4f54318dbf0b,start
X-Google-Thread: 108ff0,171d4f54318dbf0b,start
X-Google-Thread: 110694,171d4f54318dbf0b,start
X-Google-Thread: 107cee,171d4f54318dbf0b,start
X-Google-Attributes:
gidfc2a5,gid111d0a,gid108ff0,gid110694,gid107cee,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g4g2000hsf.googlegroups.com!not-for-mail
From: Mad Scientist Jr <usenet_daughter@yahoo.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,alt.music.makers.electronic,rec.music.makers.guitar,sci.electronics.misc
Subject: radio shielding?
Date: 30 May 2007 10:18:26 -0700
Organization: http://groups.google.com
Lines: 20
Message-ID: <1180545505.579295.88730@g4g2000hsf.googlegroups.com>
NNTP-Posting-Host: 12.150.126.82
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180545516 4048 127.0.0.1 (30 May 2007 17:18:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 30 May 2007 17:18:36 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.3)
Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=12.150.126.82;
   posting-account=hqcX8A0AAABKXTlWUU3mGm_QMZM61ECd

Xref: g2news1.google.com rec.radio.amateur.homebrew:13356
sci.electronics.basics:54311 alt.music.makers.electronic:1387
rec.music.makers.guitar:28188 sci.electronics.misc:15703

I am building an amplifier

(for schematic see page 5 here:
http://makezine.com/09/crackerboxamp/
)

but when I turn up the gain, I get buzz and can actually hear some
radio broadcasts on it.

I assume I need to shield the circuit, or parts of it...

Would lining the inside of the project case (in this case a cardboard
cracker box) with aluminum foil work?

Incidentally, does anyone know if someone makes a type of "shielding"
spray paint or primer, that you could just spray on a plastic or
cardboard project box, that would provide shielding?

Any help appreciated...

From 8736844221909623762
X-Google-Thread: f70d1,b1d2aa8242f32468,start
X-Google-Thread: 107cee,b1d2aa8242f32468,start
X-Google-Thread: fc2a5,b1d2aa8242f32468,start
X-Google-Attributes: gidf70d1,gid107cee,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p47g2000hsd.googlegroups.com!not-for-mail
From: Mad Scientist Jr <usenet_daughter@yahoo.com>
Newsgroups:
alt.comp.hardware.homebuilt,sci.electronics.misc,rec.radio.amateur.homebrew
Subject: motherboard LED connectors and posts?
Date: 30 May 2007 10:35:47 -0700
Organization: http://groups.google.com
Lines: 21
Message-ID: <1180546547.504204.176760@p47g2000hsd.googlegroups.com>
NNTP-Posting-Host: 12.150.126.82
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180546547 31644 127.0.0.1 (30 May 2007 17:35:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 30 May 2007 17:35:47 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.3)
Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p47g2000hsd.googlegroups.com; posting-host=12.150.126.82;

posting-account=hqcX8A0AAABKXTlWUU3mGm_QMZM61ECd
Xref: g2news1.google.com alt.comp.hardware.homebuilt:16736
sci.electronics.misc:15706 rec.radio.amateur.homebrew:13358

Does anyone know where you can order motherboard LED type connectors
and posts like these

http://estore.asus.com/images/14-000014000.JPG
http://www.pctechguide.com/images/tutorials/SCSI/LEDConnector.gif
http://lib.store.yahoo.net/lib/directron/wircon7b.jpg
http://www.hardwaresecrets.com/imageview.php?image=628
http://www.infohq.com/Computer/CompGraphics/AthlonBuild/accessorycons.jpg
http://www.pcper.com/images/reviews/285/install03.jpg

Preferably at a good price, as I am looking to buy a bunch (a couple
hundred).

I have seen 2 or 3 pin connectors are pretty common on motherboards,
but I am mainly looking for one-pin connectors, if available.

I would imagine the posts may just come in strips of wire that you
would cut yourself?

Much appreciated...

From 7515103287359424105
X-Google-Thread: f70d1,b1d2aa8242f32468
X-Google-Thread: 107cee,b1d2aa8242f32468
X-Google-Thread: fc2a5,b1d2aa8242f32468
X-Google-Attributes: gidf70d1,gid107cee,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.eclipse.net.uk!news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 30 May 2007 13:51:30 -0500
From: Conor <conor.turton@gmail.com>
Newsgroups:
alt.comp.hardware.homebuilt,sci.electronics.misc,rec.radio.amateur.homebrew
Subject: Re: motherboard LED connectors and posts?
Date: Wed, 30 May 2007 19:51:29 +0100
Message-ID: <MPG.20c7d8101bf7bc2c98a9d0@news.karoo.co.uk>
References: <1180546547.504204.176760@p47g2000hsd.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-15"
Content-Transfer-Encoding: 7bit
User-Agent: MicroPlanet-Gravity/2.70.2067
Lines: 29
NNTP-Posting-Host: 83.100.231.213
X-Trace: sv3-BEit0q92Z+dUnz0J2JGct/wQN5uTCk27GHBm4J/36bfBJyjgGuTKtR5LvfE/
oU8xCBRR8LStKtXk72l!
qzzSlfjdaop+dkwPlRh9haBX6RodJJI7IiMyzHCbqyibJaYjvh0cpofJnNedKwwuZpFMxK+mj6so!

E9F6LIASqxkO6K+3
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com alt.comp.hardware.homebuilt:16737 sci.electronics.misc:15708 rec.radio.amateur.homebrew:13359

In article <1180546547.504204.176760@p47g2000hsd.googlegroups.com>, Mad Scientist Jr says...
> Does anyone know where you can order motherboard LED type connectors
> and posts like these
>
>   http://estore.asus.com/images/14-000014000.JPG
>   http://www.pctechguide.com/images/tutorials/SCSI/LEDConnector.gif
>   http://lib.store.yahoo.net/lib/directron/wircon7b.jpg
>   http://www.hardwaresecrets.com/imageview.php?image=628
>   http://www.infohq.com/Computer/CompGraphics/AthlonBuild/accessorycons.jpg
>   http://www.pcper.com/images/reviews/285/install03.jpg
>
> Preferably at a good price, as I am looking to buy a bunch (a couple
> hundred).
>
> I have seen 2 or 3 pin connectors are pretty common on motherboards,
> but I am mainly looking for one-pin connectors, if available.
>
> I would imagine the posts may just come in strips of wire that you
> would cut yourself?
>
Correct. Any electronics hobbyist store should have them.

--
Conor

Light travels faster than sound. This is why some people appear bright
until you hear them speak.........

From -6155020909745007747
X-Google-Thread: f70d1,b1d2aa8242f32468
X-Google-Thread: 107cee,b1d2aa8242f32468
X-Google-Thread: fc2a5,b1d2aa8242f32468
X-Google-Attributes: gidf70d1,gid107cee,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o5g2000hsb.googlegroups.com!not-for-mail
From: Mad Scientist Jr <usenet_daughter@yahoo.com>
Newsgroups: alt.comp.hardware.homebuilt,sci.electronics.misc,rec.radio.amateur.homebrew
Subject: Re: motherboard LED connectors and posts?

```
Date: 30 May 2007 12:37:36 -0700
Organization: http://groups.google.com
Lines: 56
Message-ID: <1180553856.038077.18100@o5g2000hsb.googlegroups.com>
References: <1180546547.504204.176760@p47g2000hsd.googlegroups.com>
   <MPG.20c7d8101bf7bc2c98a9d0@news.karoo.co.uk>
NNTP-Posting-Host: 12.150.126.82
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180553868 19421 127.0.0.1 (30 May 2007 19:37:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 30 May 2007 19:37:48 +0000 (UTC)
In-Reply-To: <MPG.20c7d8101bf7bc2c98a9d0@news.karoo.co.uk>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.3)
Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o5g2000hsb.googlegroups.com; posting-host=12.150.126.82;
   posting-account=hqcX8A0AAABKXTlWUU3mGm_QMZM61ECd
Xref: g2news1.google.com alt.comp.hardware.homebuilt:16738
sci.electronics.misc:15709 rec.radio.amateur.homebrew:13360
```

Thanks for your reply.

I tried searching for LED connectors and get LEDs. I want the
connectors and posts, not replacement LEDs for a motherboard.

http://www.mouser.com/search/refine.aspx?Ntt=led+connector

What are these known by? If you can name some specific parts that
would help narrow my search, because I'm getting several
categories...

- LED Light Pipes & Mounting Accessories (81 Matches)
- Pin & Socket Connectors (198 Matches)
- Pin & Socket Contacts (17 Matches)
- Terminal Blocks (16 Matches)
- Terminals (93 Matches)

I just want the one pin connector type, with a wire attached, and the
post it would plug onto (which you mount or solder onto the PC
board).

Thanks...

On May 30, 2:51 pm, Conor <conor.tur...@gmail.com> wrote:
> In article <1180546547.504204.176...@p47g2000hsd.googlegroups.com>, Mad
> Scientist Jr says...
>
> > Does anyone know where you can order motherboard LED type connectors
> > and posts like these
>

```
> >  http://estore.asus.com/images/14-000014000.JPG
> >  http://www.pctechguide.com/images/tutorials/SCSI/LEDConnector.gif
> >  http://lib.store.yahoo.net/lib/directron/wircon7b.jpg
> >  http://www.hardwaresecrets.com/imageview.php?image=628
> >  http://www.infohq.com/Computer/CompGraphics/AthlonBuild/accessorycons...
> >  http://www.pcper.com/images/reviews/285/install03.jpg
>
> > Preferably at a good price, as I am looking to buy a bunch (a couple
> > hundred).
>
> > I have seen 2 or 3 pin connectors are pretty common on motherboards,
> > but I am mainly looking for one-pin connectors, if available.
>
> > I would imagine the posts may just come in strips of wire that you
> > would cut yourself?
>
> Correct. Any electronics hobbyist store should have them.
>
> --
> Conor
>
> Light travels faster than sound. This is why some people appear bright
> until you hear them speak.........




From -2581044877921219918
X-Google-Thread: f70d1,b1d2aa8242f32468
X-Google-Thread: 107cee,b1d2aa8242f32468
X-Google-Thread: fc2a5,b1d2aa8242f32468
X-Google-Attributes: gidf70d1,gid107cee,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.worldband.com!
news.worldband.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 30 May 2007 15:21:43 -0500
Newsgroups:
alt.comp.hardware.homebuilt,sci.electronics.misc,rec.radio.amateur.homebrew
From: Terran Melconian <te_rem_ra_ove_an_forspam@consistent.org>
Subject: Re: motherboard LED connectors and posts?
References: <1180546547.504204.176760@p47g2000hsd.googlegroups.com>
<MPG.20c7d8101bf7bc2c98a9d0@news.karoo.co.uk>
<1180553856.038077.18100@o5g2000hsb.googlegroups.com>
Message-ID: <slrnf5rn6n.uqs.te_rem_ra_ove_an_forspam@There-Are-Many-
Things.consistent.org>
User-Agent: slrn/0.9.8.1 (Debian)
Date: Wed, 30 May 2007 15:21:44 -0500
Lines: 20
NNTP-Posting-Host: 216.129.135.217
X-Trace: sv3-DVP/
MR10alaRSE+EMZbUIK+k+trkq8LbOw7d9VcJeYvSMFdOAA1iHTBhxssTKLAr+qfzjg2FHaekC+s!
yKhpcuHpM2NKWUQ1sgwF9Q/IaIRaOszg48QP1HCQQ2fP66iCG7K2LNtKTmbz1PQIcGNOhV2t6w2S!
```

uwFtZWm/Azpjb+hh+xyLQLvEF4EQ83fZiqfQCkFk6NDPnwA99wOaGPK3rBWXtoW0oL+ysOD5iw==
X-Complaints-To: abuse@worldband.com
X-DMCA-Complaints-To: abuse@worldband.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com alt.comp.hardware.homebuilt:16739 sci.electronics.misc:15710 rec.radio.amateur.homebrew:13361

On 2007-05-30, Mad Scientist Jr <usenet_daughter@yahoo.com> wrote:
> Thanks for your reply.
>
> I tried searching for LED connectors and get LEDs. I want the
> connectors and posts, not replacement LEDs for a motherboard.

Ah, yes, the connectors are general-purpose, and have nothing to do with LEDs specifically, although this is the context in which you happen to have encountered them; therefore searching on the term "LED" is leading you astray.

There are literally hundreds to choose from, but here are a couple example part numbers I pulled out of the Mouser catalog to point you in the right direction:

    Header: Mouser 517-2312-6111tg, 3m 2312-6111tg
    Socket: Mouser 517-974-01-02, 3m 929974-01-02 (board mount)

the sockets also come for crimp pin or IDC connections. I think once you stop searching for "LED" you'll be able to find things easily.

From -3981231976448912657
X-Google-Thread: f70d1,b1d2aa8242f32468
X-Google-Thread: 107cee,b1d2aa8242f32468
X-Google-Thread: fc2a5,b1d2aa8242f32468
X-Google-Attributes: gidf70d1,gid107cee,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.insightbb.com!news.insightbb.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 30 May 2007 15:40:22 -0500
From: kony <spam@spam.com>
Newsgroups: alt.comp.hardware.homebuilt,sci.electronics.misc,rec.radio.amateur.homebrew
Subject: Re: motherboard LED connectors and posts?
Date: Wed, 30 May 2007 16:42:02 -0400
Reply-To: spam@spam.com
Message-ID: <j3mr53l9cf4ugtkk8oou0f4vi2nkalti32@4ax.com>
References: <1180546547.504204.176760@p47g2000hsd.googlegroups.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
Lines: 59
NNTP-Posting-Host: 74.129.176.114
X-Trace: sv3-qSdweWSlU7LWyhmWQZxLuGLhSXtX+T4fC/fRFydhcyeUeiP2d4M6u9J826yBAS/
z5sEsPg5qMk4EGRJ!5wm/
mEpkIixtuX4oRCifi4BHVbPq2aVTlLru91ISssI6vDzi8hlsGegJ1tRPqIuzzINngjLliTjs!
dQn21wpRy7/xhw==
X-Complaints-To: abuse@insightbb.com
X-DMCA-Complaints-To: abuse@insightbb.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com alt.comp.hardware.homebuilt:16740 sci.electronics.misc:15711 rec.radio.amateur.homebrew:13362

On 30 May 2007 10:35:47 -0700, Mad Scientist Jr
<usenet_daughter@yahoo.com> wrote:

>Does anyone know where you can order motherboard LED type connectors
>and posts like these
>
> http://estore.asus.com/images/14-000014000.JPG
> http://www.pctechguide.com/images/tutorials/SCSI/LEDConnector.gif
> http://lib.store.yahoo.net/lib/directron/wircon7b.jpg
> http://www.hardwaresecrets.com/imageview.php?image=628
> http://www.infohq.com/Computer/CompGraphics/AthlonBuild/accessorycons.jpg
> http://www.pcper.com/images/reviews/285/install03.jpg
>
>Preferably at a good price, as I am looking to buy a bunch (a couple
>hundred).
>
>I have seen 2 or 3 pin connectors are pretty common on motherboards,
>but I am mainly looking for one-pin connectors, if available.
>
>I would imagine the posts may just come in strips of wire that you
>would cut yourself?
>
>Much appreciated...

Male pin headers and female socket connectors with 0.1" pin
spacing. Also socket contacts (inserts) are often sold
separate from the socket itself.

They can be very expensive from electronics supply houses,
ridiculously so for the female connector and insert.

http://www.digikey.com/scripts/DkSearch/dksus.dll?PName?Name=609-2342-ND&Site=US
http://www.digikey.com/scripts/DkSearch/dksus.dll?PName?Name=609-2301-ND&Site=US

What exactly are you looking for? Straight plastic sockets
with 0.1" pin spacing but do they have to be the very thin
(black in your links) type such that on a row of pins in a

pin header, you could plug in two right next to each other, OR could the plastic connector body be larger like those used on fans?   The point is that if looking for an especially low price, one option is surplus electronics 'sites which may have something that would work (or may not) depending on the requirements beyond the basic # of pins, spacing and pin size.

You might find them called something else, generically grouped as just "connectors" or slightly more like "pin connectors" at a store/site that doesn't deal with as many connectors and just doesn't follow standard naming practices.

You might check the following surplus sites (and ebay).
http://sales.goldmine-elec.com/
http://www.bgmicro.com/
http://www.allelectronics.com/
http://www.mpja.com/
http://www.excesssolutions.com/

From 2928374140154809072
X-Google-Thread: f70d1,b1d2aa8242f32468
X-Google-Thread: 107cee,b1d2aa8242f32468
X-Google-Thread: fc2a5,b1d2aa8242f32468
X-Google-Attributes: gidf70d1,gid107cee,gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!u30g2000hsc.googlegroups.com!not-for-mail
From: Mad Scientist Jr <usenet_daughter@yahoo.com>
Newsgroups:
alt.comp.hardware.homebuilt,sci.electronics.misc,rec.radio.amateur.homebrew
Subject: Re: motherboard LED connectors and posts?
Date: 30 May 2007 14:33:30 -0700
Organization: http://groups.google.com
Lines: 44
Message-ID: <1180560810.014747.229000@u30g2000hsc.googlegroups.com>
References: <1180546547.504204.176760@p47g2000hsd.googlegroups.com>
   <j3mr53l9cf4ugtkk8oou0f4vi2nkalti32@4ax.com>
NNTP-Posting-Host: 12.150.126.82
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180560821 14084 127.0.0.1 (30 May 2007 21:33:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 30 May 2007 21:33:41 +0000 (UTC)
In-Reply-To: <j3mr53l9cf4ugtkk8oou0f4vi2nkalti32@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.3)
Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com

Injection-Info: u30g2000hsc.googlegroups.com; posting-host=12.150.126.82;
   posting-account=hqcX8A0AAABKXTlWUU3mGm_QMZM61ECd
Xref: g2news1.google.com alt.comp.hardware.homebuilt:16744
sci.electronics.misc:15712 rec.radio.amateur.homebrew:13363

Thanks to everyone for your replies.

>From: Terran Melconian <te_rem_ra_ove_an_fors...@consistent.org>
>There are literally hundreds to choose from, but here are a couple
>example part numbers I pulled out of the Mouser catalog to point you in
>the right direction:
>   Header: Mouser 517-2312-6111tg, 3m 2312-6111tg
>   Socket: Mouser 517-974-01-02, 3m 929974-01-02 (board mount)
>the sockets also come for crimp pin or IDC connections.

That should be a big help - I just needed some keywords: header, socket, board mount, IDC.

>From: kony <s...@spam.com>
>Male pin headers and female socket connectors with 0.1" pin
>spacing. Also socket contacts (inserts) are often sold
>separate from the socket itself.

This helps...

>What exactly are you looking for? Straight plastic sockets
>with 0.1" pin spacing but do they have to be the very thin
>(black in your links) type such that on a row of pins in a
>pin header, you could plug in two right next to each other,
>OR could the plastic connector body be larger like those
>used on fans?   The point is that if looking for an
>especially low price, one option is surplus electronics
>'sites which may have something that would work (or may not)
>depending on the requirements beyond the basic # of pins,
>spacing and pin size.

This would be a way to make certain components (such as pots & trimmers, 1/4" phono jacks, switches, or other sub-circuits) "plug and play" for various prototypes + experiments. The motherboard size headers are small enough where the leads match the components I'm using and the pins on a motherboard that LEDs plug into are just the right size to plug into a solderless breadboard, but are more durable than the regular breadboard jumper wires.

>You might check the following surplus sites (and ebay).

Thanks again

From -6795510658842598687
X-Google-Thread: fc2a5,171d4f54318dbf0b

```
X-Google-Thread: 111d0a,171d4f54318dbf0b
X-Google-Thread: 108ff0,171d4f54318dbf0b
X-Google-Thread: 110694,171d4f54318dbf0b
X-Google-Thread: 107cee,171d4f54318dbf0b
X-Google-Attributes:
gidfc2a5,gid111d0a,gid108ff0,gid110694,gid107cee,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!postnews.google.com!
q75g2000hsh.googlegroups.com!not-for-mail
From: Mad Scientist Jr <usenet_daughter@yahoo.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,alt.music.makers.electronic,rec.
music.makers.guitar,sci.electronics.misc
Subject: Re: radio shielding?
Date: 30 May 2007 15:05:24 -0700
Organization: http://groups.google.com
Lines: 78
Message-ID: <1180562724.670843.134540@q75g2000hsh.googlegroups.com>
References: <1180545505.579295.88730@g4g2000hsf.googlegroups.com>
   <vh1hp.lbq.19.2@news.alt.net>
NNTP-Posting-Host: 12.150.126.82
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1180562725 19355 127.0.0.1 (30 May 2007 22:05:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 30 May 2007 22:05:25 +0000 (UTC)
In-Reply-To: <vh1hp.lbq.19.2@news.alt.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.3)
Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q75g2000hsh.googlegroups.com; posting-host=12.150.126.82;
   posting-account=hqcX8A0AAABKXTlWUU3mGm_QMZM61ECd
Xref: g2news1.google.com rec.radio.amateur.homebrew:13364
sci.electronics.basics:54320 alt.music.makers.electronic:1391
rec.music.makers.guitar:28194 sci.electronics.misc:15713
```

> Did you use shielded wire to connect the controls and jacks?

Thanks for your reply...

No, just normal stranded wire. Is that where the most interference would be leaking in?

I found shielding paint (see below) - would it help to paint the inside of the project box with this?

http://www.lessemf.com/paint.html

SUPER SHIELD

Reduce or Eliminate EMI / RFI Interference

Super Shield A general purpose EMI/RFI shielding in a handy aerosol spray for use on most substrates. Especially good for RF shielding plastic electronics enclosures. Consists of a tough, durable acrylic base pigmented with a high purity nickel flake. One to two mil coating provides 40dB - 50dB shielding across a frequency range of 5 to 1800MHz. About 1600 in=B2/can coverage at 1.5 mil. Contains no CFC 'S, NO HCFC'S, ozone friendly. 340g (12 oz) aerosol can. Dries to a dull gray color. Click to see MSDS

* Surface Resistivity ~0.7 Ohm/sq
* Dry time: 10 minutes at room temperature
* Recoat time: 5 minutes
* Excellent adhesion to most plastics
* Tested as per IEEE Std. 299-1997
* Underwriters Laboratories Recognized File No.: E202609
* NO CFC 'S, NO HCFC'S, Ozone Friendly
* RoHS Compliant

Flammable aerosol, ships by ground only.

Super Shield (Cat. #A285) $24.95
add to cart

On May 30, 1:26 pm, Meat Plow <m...@meatplow.local> wrote:
> On Wed, 30 May 2007 10:18:26 -0700, Mad Scientist Jr wrote:
> > I am building an amplifier
>
> > (for schematic see page 5 here:
> >http://makezine.com/09/crackerboxamp/
> >)
>
> > but when I turn up the gain, I get buzz and can actually hear some
> > radio broadcasts on it.
>
> > I assume I need to shield the circuit, or parts of it...
>
> > Would lining the inside of the project case (in this case a cardboard
> > cracker box) with aluminum foil work?
>
> > Incidentally, does anyone know if someone makes a type of "shielding"
> > spray paint or primer, that you could just spray on a plastic or
> > cardboard project box, that would provide shielding?
>
> > Any help appreciated...
>
> Did you use shielded wire to connect the controls and jacks?

> --
> #1 Offishul Ruiner of Usenet, March 2007
> #1 Usenet Asshole, March 2007
> #1 Bartlo Pset, March 13-24 2007
> #10 Most hated Usenetizen of all time
> #8 AUK Hate Machine Cog
> Pierre Salinger Memorial Hook, Line & Sinker, June 2004
> COOSN-266-06-25794

From -5227995687971633644
X-Google-Thread: fc2a5,171d4f54318dbf0b
X-Google-Thread: 111d0a,171d4f54318dbf0b
X-Google-Thread: 108ff0,171d4f54318dbf0b
X-Google-Thread: 110694,171d4f54318dbf0b
X-Google-Thread: 107cee,171d4f54318dbf0b
X-Google-Attributes:
gidfc2a5,gid111d0a,gid108ff0,gid110694,gid107cee,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 30 May 2007 17:19:11 -0500
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,alt.music.makers.electronic,rec.
music.makers.guitar,sci.electronics.misc
References: <1180545505.579295.88730@g4g2000hsf.googlegroups.com>
<vh1hp.lbq.19.2@news.alt.net>
<1180562724.670843.134540@q75g2000hsh.googlegroups.com>
Subject: Re: radio shielding?
Date: Wed, 30 May 2007 18:19:11 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <0LadnRDFPeHCZcDbnZ2dnUVZ_s-rnZ2d@comcast.com>
Lines: 60
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sv3-0QzrmBqEkn511YaKJp8RlHK4bJu5+wc77JI1LESUNHsWLJjMq77YDWVsNdciy0V1SVNTzkax28h3AC
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JcYkb5qeoQzCGQcKIPwGXbqWG92dTVw=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13365

sci.electronics.basics:54321 alt.music.makers.electronic:1392
rec.music.makers.guitar:28195 sci.electronics.misc:15714

"Mad Scientist Jr" <usenet_daughter@yahoo.com> wrote in message
news:1180562724.670843.134540@q75g2000hsh.googlegroups.com...

> Did you use shielded wire to connect the controls and jacks?

Thanks for your reply...

No, just normal stranded wire. Is that where the most interference would be leaking in?

I found shielding paint (see below) - would it help to paint the inside of the project box with this?

http://www.lessemf.com/paint.html

SUPER SHIELD

Reduce or Eliminate EMI / RFI Interference

Super Shield A general purpose EMI/RFI shielding in a handy aerosol spray for use on most substrates. Especially good for RF shielding plastic electronics enclosures. Consists of a tough, durable acrylic base pigmented with a high purity nickel flake. One to two mil coating provides 40dB - 50dB shielding across a frequency range of 5 to 1800MHz. About 1600 in�/can coverage at 1.5 mil. Contains no CFC 'S, NO HCFC'S, ozone friendly. 340g (12 oz) aerosol can. Dries to a dull gray color. Click to see MSDS

- Surface Resistivity ~0.7 Ohm/sq
- Dry time: 10 minutes at room temperature
- Recoat time: 5 minutes
- Excellent adhesion to most plastics
- Tested as per IEEE Std. 299-1997
- Underwriters Laboratories Recognized File No.: E202609
- NO CFC 'S, NO HCFC'S, Ozone Friendly
- RoHS Compliant

Flammable aerosol, ships by ground only.

Super Shield (Cat. #A285) $24.95
add to cart

For $24.95 plus shipping, that's some mighty expensive shielding. Why not spend about half of that and buy a proper aluminum chassis for it. They offer inherent shielding. You'll have to do a bit of easy drilling to mount the components, but it's well worth the effort, and it looks so much better than a cardboard box.
Surf over to www.mouser.com and search for Bud mini-box. There are quite a number of sizes available; one is sure to fit your needs.

Cheers!!

--
Dave M
MasonDG44 at comcast dot net (Just substitute the appropriate characters in the address)

Life is like a roll of toilet paper; the closer to the end, the faster it goes.

From -5950568457383723921
X-Google-Thread: fc2a5,171d4f54318dbf0b
X-Google-Thread: 111d0a,171d4f54318dbf0b
X-Google-Thread: 108ff0,171d4f54318dbf0b
X-Google-Thread: 110694,171d4f54318dbf0b
X-Google-Thread: 107cee,171d4f54318dbf0b
X-Google-Attributes:
gidfc2a5,gid111d0a,gid108ff0,gid110694,gid107cee,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 30 May 2007 17:25:04 -0500
Date: Wed, 30 May 2007 18:25:56 -0400
From: John Popelish <jpopelish@rica.net>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,alt.music.makers.electronic,rec.music.makers.guitar,sci.electronics.misc
Subject: Re: radio shielding?
References: <1180545505.579295.88730@g4g2000hsf.googlegroups.com>
<vh1hp.lbq.19.2@news.alt.net>
<1180562724.670843.134540@q75g2000hsh.googlegroups.com>
In-Reply-To: <1180562724.670843.134540@q75g2000hsh.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: quoted-printable
Message-ID: <cbednTxqb_1dZMDbnZ2dnUVZ_hmtnZ2d@comcast.com>
Lines: 60
NNTP-Posting-Host: 71.62.65.134
X-Trace: sv3-rYdBcvt+0E93MojmLmWv+cOj3hMy0tj7CywGlgfvXgmyxRXf3L1ZoIwOcp6EoZKlSiZY6XPBJUkjFIe!
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0qopqXVf3iG8lInxShdNu4N/q2Lj
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13366

sci.electronics.basics:54322 alt.music.makers.electronic:1393
rec.music.makers.guitar:28197 sci.electronics.misc:15715

Mad Scientist Jr wrote:
>> Did you use shielded wire to connect the controls and jacks?
>=20
> Thanks for your reply...
>=20
> No, just normal stranded wire. Is that where the most interference
> would be leaking in?
>=20
> I found shielding paint (see below) - would it help to paint the
> inside of the project box with this?
>=20
> http://www.lessemf.com/paint.html
>=20
> SUPER SHIELD
>=20
> Reduce or Eliminate EMI / RFI Interference
>=20
> Super Shield A general purpose EMI/RFI shielding in a handy aerosol
> spray for use on most substrates. Especially good for RF shielding
> plastic electronics enclosures. Consists of a tough, durable acrylic
> base pigmented with a high purity nickel flake. One to two mil coating
> provides 40dB - 50dB shielding across a frequency range of 5 to
> 1800MHz. About 1600 in=B2/can coverage at 1.5 mil. Contains no CFC 'S,
> NO HCFC'S, ozone friendly. 340g (12 oz) aerosol can. Dries to a dull
> gray color. Click to see MSDS
>=20
>   * Surface Resistivity ~0.7 Ohm/sq
>   * Dry time: 10 minutes at room temperature
>   * Recoat time: 5 minutes
>   * Excellent adhesion to most plastics
>   * Tested as per IEEE Std. 299-1997
>   * Underwriters Laboratories Recognized File No.: E202609
>   * NO CFC 'S, NO HCFC'S, Ozone Friendly
>   * RoHS Compliant
>=20
> Flammable aerosol, ships by ground only.
>=20
> Super Shield (Cat. #A285) .... $24.9=
5
> add to cart

It would probably be little help. And if you coat the box=20
with anything conductive, it won't help much unless you can=20
make a good electrical connection between the coating and=20
pin 4 of the chip. If you really want to try this, thin=20
brass shim stock cut and folded to fit the box, is probably=20
the best you can get, short of a copper or aluminum box. It=20
is also easily solderable to make the ground connection.

If this amp powered by a battery?

In this configuration, pin 2 is the most sensitive node, and=20
anything connected to it should be surrounded with shielding.

Pins 1 and 8 are also somewhat sensitive so if the gain pot=20
has a metal case, that case should also have a ground wire=20
run to pin 4 to shield the resistive element.

Pin 7 is less sensitive, and since this circuit connects=20
nothing to it, it is probably not involved in the noise.

```
From -2447888040448938626
X-Google-Thread: fc2a5,171d4f54318dbf0b
X-Google-Thread: 111d0a,171d4f54318dbf0b
X-Google-Thread: 108ff0,171d4f54318dbf0b
X-Google-Thread: 110694,171d4f54318dbf0b
X-Google-Thread: 107cee,171d4f54318dbf0b
X-Google-Attributes:
gidfc2a5,gid111d0a,gid108ff0,gid110694,gid107cee,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!postnews.google.com!
k79g2000hse.googlegroups.com!not-for-mail
From: Mad Scientist Jr <usenet_daughter@yahoo.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,alt.music.makers.electronic,rec.
music.makers.guitar,sci.electronics.misc
Subject: Re: radio shielding?
Date: 30 May 2007 15:47:25 -0700
Organization: http://groups.google.com
Lines: 69
Message-ID: <1180565245.480569.197810@k79g2000hse.googlegroups.com>
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   <vh1hp.lbq.19.2@news.alt.net>
   <1180562724.670843.134540@q75g2000hsh.googlegroups.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1180565245 18642 127.0.0.1 (30 May 2007 22:47:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 30 May 2007 22:47:25 +0000 (UTC)
In-Reply-To: <0LadnRDFPeHCZcDbnZ2dnUVZ_s-rnZ2d@comcast.com>
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X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.3)
Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k79g2000hse.googlegroups.com; posting-host=12.150.126.82;
   posting-account=hqcX8A0AAABKXTlWUU3mGm_QMZM61ECd
Xref: g2news1.google.com rec.radio.amateur.homebrew:13367
sci.electronics.basics:54324 alt.music.makers.electronic:1394
rec.music.makers.guitar:28199 sci.electronics.misc:15716
```

Aha - thanks.

On May 30, 6:19 pm, "DaveM" <masondg4...@comcast99.net> wrote:
> "Mad Scientist Jr" <usenet_daugh...@yahoo.com> wrote in messagenews:11805=
62724.670843.134540@q75g2000hsh.googlegroups.com...
>
> > Did you use shielded wire to connect the controls and jacks?
>
> Thanks for your reply...
>
> No, just normal stranded wire. Is that where the most interference
> would be leaking in?
>
> I found shielding paint (see below) - would it help to paint the
> inside of the project box with this?
>
> http://www.lessemf.com/paint.html
>
> SUPER SHIELD
>
> Reduce or Eliminate EMI / RFI Interference
>
> Super Shield A general purpose EMI/RFI shielding in a handy aerosol
> spray for use on most substrates. Especially good for RF shielding
> plastic electronics enclosures. Consists of a tough, durable acrylic
> base pigmented with a high purity nickel flake. One to two mil coating
> provides 40dB - 50dB shielding across a frequency range of 5 to
> 1800MHz. About 1600 in=B2/can coverage at 1.5 mil. Contains no CFC 'S,
> NO HCFC'S, ozone friendly. 340g (12 oz) aerosol can. Dries to a dull
> gray color. Click to see MSDS
>
>   * Surface Resistivity ~0.7 Ohm/sq
>   * Dry time: 10 minutes at room temperature
>   * Recoat time: 5 minutes
>   * Excellent adhesion to most plastics
>   * Tested as per IEEE Std. 299-1997
>   * Underwriters Laboratories Recognized File No.: E202609
>   * NO CFC 'S, NO HCFC'S, Ozone Friendly
>   * RoHS Compliant
>
> Flammable aerosol, ships by ground only.
>
> Super Shield (Cat. #A285) $24.95
> add to cart
>
> For $24.95 plus shipping, that's some mighty expensive shielding. Why no=
t spend
> about half of that and buy a proper aluminum chassis for it. They offer
> inherent shielding. You'll have to do a bit of easy drilling to mount the

> components, but it's well worth the effort, and it looks so much better t=
han a
> cardboard box.
> Surf over towww.mouser.comand search for Bud mini-box. There are quite a
> number of sizes available; one is sure to fit your needs.
> Cheers!!
>
> --
> Dave M
> MasonDG44 at comcast dot net (Just substitute the appropriate characters=
 in the
> address)
>
> Life is like a roll of toilet paper; the closer to the end, the faster it=
 goes.

From 156455884321631189
X-Google-Thread: fc8b1,ea04ff02a2f72bc8
X-Google-Thread: fc2a5,ea04ff02a2f72bc8
X-Google-Attributes: gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 16 May 2007 14:27:49 -0500
User-Agent: Microsoft-Entourage/10.0.0.1309
Date: Wed, 16 May 2007 12:27:44 -0700
Subject: Re: 6BY6 vs 6BE6 in product detectors
From: Don Bowey <dbowey@comcast.net>
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Message-ID: <C270A940.67138%dbowey@comcast.net>
References: <1179342656.138091.99550@o5g2000hsb.googlegroups.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
Lines: 19
NNTP-Posting-Host: 24.20.154.195
X-Trace: sv3-ZDm8YpIkJdXMUha7MnDjmFIGgiNihybAnNtXndZxalG77b8W7P7mjEBJx/J5i3/
oJHSRdVtRKCqtO9T!
XDIBc7yHEpVLGdsZKUYnKnCd4p4DjbM55KAR+zQjC4jYJnrDLc3+Ura47SQAInKRrir4+6i3OXui!
xAe1+xeHoePVEiE=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.boatanchors:11632
rec.radio.amateur.homebrew:13265

```
On 5/16/07 12:10 PM, in article
1179342656.138091.99550@o5g2000hsb.googlegroups.com, "Tim Shoppa"
<shoppa@trailing-edge.com> wrote:

> Is there any obvious choice in 6BY6 vs 6BE6 in a product detector?
>
> I've subbed one for the other in replacement uses and there wasn't any
> hugely obvious differences, but maybe if someone told me what to look
> for... :-)
>
> Tim KA0BTD
>

The 6BY6 was intended as a sync separator, and to run with 10V on the plate
at that voltage.  My bet is the 6BE6 would be the better tube to use unless
your PD is running at reduced plate voltage.

Don




From 3289560658404514826
X-Google-Thread: fc8b1,ea04ff02a2f72bc8
X-Google-Thread: fc2a5,ea04ff02a2f72bc8
X-Google-Attributes: gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.194.250.MISMATCH!transit3.readnews.com!news-out.readnews.com!panix!
panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: 6BY6 vs 6BE6 in product detectors
Date: 16 May 2007 15:41:35 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 25
Message-ID: <f2fmpf$qje$1@panix2.panix.com>
References: <1179342656.138091.99550@o5g2000hsb.googlegroups.com>
<C270A940.67138%dbowey@comcast.net>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1179344495 15547 166.84.1.2 (16 May 2007 19:41:35 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 16 May 2007 19:41:35 +0000 (UTC)
Xref: g2news1.google.com rec.radio.amateur.boatanchors:11633
rec.radio.amateur.homebrew:13266

In article <C270A940.67138%dbowey@comcast.net>,
Don Bowey  <dbowey@comcast.net> wrote:
>On 5/16/07 12:10 PM, in article
>1179342656.138091.99550@o5g2000hsb.googlegroups.com, "Tim Shoppa"
><shoppa@trailing-edge.com> wrote:
>
>> Is there any obvious choice in 6BY6 vs 6BE6 in a product detector?
```

```
>>
>> I've subbed one for the other in replacement uses and there wasn't any
>> hugely obvious differences, but maybe if someone told me what to look
>> for... :-)
>>
>
>The 6BY6 was intended as a sync separator, and to run with 10V on the plate
>at that voltage.  My bet is the 6BE6 would be the better tube to use unless
>your PD is running at reduced plate voltage.

Can the 6BY6 be used as a converter?  The whole thing about the 6BE6 is
that changes in control grid voltage don't affect the cathode current much.
If you're doing the self-excited oscillator trick, I think you need the
6BE6.
--scott

--
"C'est un Nagra.  C'est suisse, et tres, tres precis."


From 6081832619306483583
X-Google-Thread: fc8b1,ea04ff02a2f72bc8
X-Google-Thread: fc2a5,ea04ff02a2f72bc8
X-Google-Attributes: gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 16 May 2007 14:55:07 -0500
Date: Wed, 16 May 2007 15:55:54 -0400
From: Dave <W1MCE@comcast.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.4) Gecko/20030624
Netscape/7.1 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: 6BY6 vs 6BE6 in product detectors
References: <1179342656.138091.99550@o5g2000hsb.googlegroups.com>
In-Reply-To: <1179342656.138091.99550@o5g2000hsb.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <cPednQ3JfLAG_NbbnZ2dnUVZ_oavnZ2d@comcast.com>
Lines: 22
NNTP-Posting-Host: 24.34.65.49
X-Trace: sv3-e9Sn9PoC3IlhS4359NV5HjAu4rn/TORP8qJv1y05H8C+6loO8Vd8gfuKjH+9KUA4z7VC/
URLPdmNs5S!CehZhfKOzQAV/T9dRr9LBL2ftcnCtiG8WS4BXThsc4Xg36XmY+
+H+p29VmVFopTS5OxiPhbcfX84!C65LU3AodHn7EEUzwFDB7GM4X04=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
```

Xref: g2news1.google.com rec.radio.amateur.boatanchors:11634
rec.radio.amateur.homebrew:13267

The 6BE6 has a transconductance, as an oscillator, of 7250 umhos while the 6BY6 has a transconductance of 1900 umhos, as a Class A amplifier.

Different critters designed for different purposes. Each will work in the other's circuit, but at reduced performance.

You can compare their specifications here:
<http://www.pmillett.com/tubedata/HB-3/Receiving_Tubes_Part_1/6BE6.PDF>

Tim Shoppa wrote:

> Is there any obvious choice in 6BY6 vs 6BE6 in a product detector?
>
> I've subbed one for the other in replacement uses and there wasn't any
> hugely obvious differences, but maybe if someone told me what to look
> for... :-)
>
> Tim KA0BTD
>

From 8748145038103356343
X-Google-Thread: fc2a5,fde9ab22e961a904,start
X-Google-Thread: fc8b1,fde9ab22e961a904,start
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!u30g2000hsc.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: 6BE6 vs 6BY6
Date: 16 May 2007 17:27:26 -0700
Organization: http://groups.google.com
Lines: 12
Message-ID: <1179361646.266920.111840@u30g2000hsc.googlegroups.com>
NNTP-Posting-Host: 63.73.218.130
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1179361658 19825 127.0.0.1 (17 May 2007 00:27:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 17 May 2007 00:27:38 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Links (1.00pre14; Linux 2.6.13.2 i686; 80x25),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: u30g2000hsc.googlegroups.com; posting-host=63.73.218.130;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w

```
Xref: g2news1.google.com rec.radio.amateur.homebrew:13268 rec.radio.amateur.boatanchors:11646
```

For use in a product detector, is there an obvious "better choice" between the 6BE6 and the 6BY6?

The 6BE6 seems more common and looks like it'd be better for use with AGC applied, but that's not how my product detector works, so I don't know if there's something else which is a determining factor.

The 6BY6 seems to have originally been intended as a sync separator for TV use.

Tim.

```
From 5504012121841289785
X-Google-Thread: fc2a5,fde9ab22e961a904
X-Google-Thread: fc8b1,fde9ab22e961a904
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 16 May 2007 23:30:28 -0500
Date: Wed, 16 May 2007 21:34:03 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: 6BE6 vs 6BY6
References: <1179361646.266920.111840@u30g2000hsc.googlegroups.com>
In-Reply-To: <1179361646.266920.111840@u30g2000hsc.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <ie6dnbLp3ez5R9bbnZ2dnUVZ_gqdnZ2d@web-ster.com>
Lines: 31
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-sQpp+mgAsYeis4bn0k9vE2p3LhfzG1etq8Nrr52wCdNDYBaDX2kbXg56ZE2e0N79pau1zLuuBqAtGHu!tQy4Q6At1AlSKIspewzU6FfbVYrGUTv+u9PCXaXJOCLnp5yflMlmulpx+Zqe3bO7bNIAYcIfMXQw!n4NUslsK2eXee/pk
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13269 rec.radio.amateur.boatanchors:11652
```

Tim Shoppa wrote:

> For use in a product detector, is there an obvious "better choice"
> between the 6BE6 and the 6BY6?
>
> The 6BE6 seems more common and looks like it'd be better for use with
> AGC applied, but that's not how my product detector works, so I don't
> know if there's something else which is a determining factor.
>
> The 6BY6 seems to have originally been intended as a sync separator
> for TV use.
>
> Tim.
>

A diode ring mixer from Mini-Circuits?

Seriously, in the later publications that I have the move had started to balanced mixers -- I would investigate using a twin triode, or get one of those evil dual-plate steered beam devices (apparently they're susceptible to stray magnetic fields).

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From -4917242111563233985
X-Google-Thread: fc8b1,ea04ff02a2f72bc8
X-Google-Thread: fc2a5,ea04ff02a2f72bc8
X-Google-Attributes: gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w5g2000hsg.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: 6BY6 vs 6BE6 in product detectors
Date: 17 May 2007 06:56:47 -0700
Organization: http://groups.google.com
Lines: 33
Message-ID: <1179410207.069465.327190@w5g2000hsg.googlegroups.com>
References: <1179342656.138091.99550@o5g2000hsb.googlegroups.com>
   <C270A940.67138%dbowey@comcast.net>
   <f2fmpf$qje$1@panix2.panix.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1179410216 7778 127.0.0.1 (17 May 2007 13:56:56 GMT)
```

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 17 May 2007 13:56:56 +0000 (UTC)
In-Reply-To: <f2fmpf$qje$1@panix2.panix.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: w5g2000hsg.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com rec.radio.amateur.boatanchors:11654
rec.radio.amateur.homebrew:13271

On May 16, 3:41 pm, klu...@panix.com (Scott Dorsey) wrote:
> In article <C270A940.67138%dbo...@comcast.net>,
> Don Bowey  <dbo...@comcast.net> wrote:
>
> >On 5/16/07 12:10 PM, in article
> >1179342656.138091.99...@o5g2000hsb.googlegroups.com, "TimShoppa"
> ><sho...@trailing-edge.com> wrote:
>
> >> Is there any obvious choice in 6BY6 vs 6BE6 in a product detector?
>
> >> I've subbed one for the other in replacement uses and there wasn't any
> >> hugely obvious differences, but maybe if someone told me what to look
> >> for... :-)
>
> >The 6BY6 was intended as a sync separator, and to run with 10V on the plate
> >at that voltage.  My bet is the 6BE6 would be the better tube to use unless
> >your PD is running at reduced plate voltage.
>
> Can the 6BY6 be used as a converter?  The whole thing about the 6BE6 is
> that changes in control grid voltage don't affect the cathode current much.
> If you're doing the self-excited oscillator trick, I think you need the
> 6BE6.

In my case there's no desire for using the tube as an oscillator.

I was just doing a survey of my radios yesterday and the number of
6BE6's stuck in sockets labeled 6BY6 was astonishing :-).

Some discussions in the ham literature indicate that the 6BY6 is less
prone to overload.

Tim.




From 5923303899903382137
X-Google-Thread: fc2a5,9f5ac03b91c1fb4e,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!63.218.45.10!
```

```
nx01.iad01.newshosting.com!newshosting.com!post01.iad01!roadrunner.com!not-for-
mail
From: "DJboutit" <Recordking@Hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Check Out Texas CB Forum
Date: Thu, 17 May 2007 10:21:55 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Lines: 4
Message-ID: <464c6ceb$0$19460$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13272
```

For anybody that lives in Texas who is into cb radio to chat & meet others
who are also into cb radio www.texascbforum.co.nr

```
From 1977284818624919032
X-Google-Thread: fc2a5,558bab1ff89f15fb,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w5g2000hsg.googlegroups.com!not-for-
mail
From: tapalquedeayer@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: BY1-1 and 01-043A RF Transistors data need
Date: 17 May 2007 12:25:31 -0700
Organization: http://groups.google.com
Lines: 10
Message-ID: <1179429926.704411.42840@w5g2000hsg.googlegroups.com>
NNTP-Posting-Host: 200.59.206.34
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1179429940 7952 127.0.0.1 (17 May 2007 19:25:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 17 May 2007 19:25:40 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows
98),gzip(gfe),gzip(gfe)
X-HTTP-Via: 1.0 proxy:8080 (squid/2.5.STABLE11)
Complaints-To: groups-abuse@google.com
Injection-Info: w5g2000hsg.googlegroups.com; posting-host=200.59.206.34;
   posting-account=hyd_tQ0AAAClCJr8GVjuePTxq8avWcF9
Xref: g2news1.google.com rec.radio.amateur.homebrew:13273
```

Hi All:

I have some transistors of RF BY1-1 and 01-043A, but I do
not have its data sheets. - Somebody can say where to find something

```
to me on this?
Thanks in advance
Greetings

Heriberto
LU6DBU



From -3031594225198471764
X-Google-Thread: fc2a5,558bab1ff89f15fb
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe23.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1179429926.704411.42840@w5g2000hsg.googlegroups.com>
Subject: Re: BY1-1 and 01-043A RF Transistors data need
Lines: 30
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <Xj63i.107516$NK5.47401@newsfe23.lga>
Date: Thu, 17 May 2007 20:20:55 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe23.lga 1179447671 68.0.230.122 (Thu, 17 May 2007 17:21:11 MST)
NNTP-Posting-Date: Thu, 17 May 2007 17:21:11 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13274


<tapalquedeayer@gmail.com> wrote in message
news:1179429926.704411.42840@w5g2000hsg.googlegroups.com...
> Hi All:
>            I have some transistors of RF BY1-1 and 01-043A, but I do
> not have its data sheets. - Somebody can say where to find something
> to me on this?
> Thanks in advance
> Greetings
>
> Heriberto
> LU6DBU
>

Heriberto

Try NTEINC.com for a cross reference for the 01-043A transistor.
NTE-349 looks close, and the PDF for the device is available online.
```

The other part (BY1-1) seems incomplete, is there a Z or T after the 1? I think that was an older Acrian RF transistor. Those look like REPCO part numbers.

RF Parts shows the BY1-1 in their catalog. Perhaps they might be able to give you advice regarding the nearest cross reference if you email them.

Pete k1zjh

```
From -8241822198104731688
X-Google-Thread: fc2a5,558bab1ff89f15fb
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e65g2000hsc.googlegroups.com!not-for-
mail
From: tapalquedeayer@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: BY1-1 and 01-043A RF Transistors data need
Date: 17 May 2007 18:04:53 -0700
Organization: http://groups.google.com
Lines: 38
Message-ID: <1179450293.141888.256690@e65g2000hsc.googlegroups.com>
References: <1179429926.704411.42840@w5g2000hsg.googlegroups.com>
   <Xj63i.107516$NK5.47401@newsfe23.lga>
NNTP-Posting-Host: 200.59.206.34
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1179450293 20701 127.0.0.1 (18 May 2007 01:04:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 18 May 2007 01:04:53 +0000 (UTC)
In-Reply-To: <Xj63i.107516$NK5.47401@newsfe23.lga>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows
98),gzip(gfe),gzip(gfe)
X-HTTP-Via: 1.0 proxy:8080 (squid/2.5.STABLE11)
Complaints-To: groups-abuse@google.com
Injection-Info: e65g2000hsc.googlegroups.com; posting-host=200.59.206.34;
   posting-account=hyd_tQ0AAAClCJr8GVjuePTxq8avWcF9
Xref: g2news1.google.com rec.radio.amateur.homebrew:13275
```

On 17 Mag, 21:20, "Uncle Peter" <radioconnect...@cox.net> wrote:
> <tapalquedea...@gmail.com> wrote in message
>
> news:1179429926.704411.42840@w5g2000hsg.googlegroups.com...
>
> > Hi All:
> > I have some transistors of RF BY1-1 and 01-043A, but I do
> > not have its data sheets. - Somebody can say where to find something

```
> > to me on this?
> > Thanks in advance
> > Greetings
>
> > Heriberto
> > LU6DBU
>
> Heriberto
>
> Try NTEINC.com for a cross reference for the 01-043A transistor.
> NTE-349 looks close, and the PDF for the device is available online.
>
> The other part (BY1-1) seems incomplete, is there a Z or T after the
> 1?  I think that was an older Acrian RF transistor. Those look like
> REPCO part numbers.
>
> RF Parts shows the BY1-1 in their catalog. Perhaps they  might be
> able to give you advice regarding the nearest cross reference if you
> email them.
>
> Pete  k1zjh

Hello Peter:
Thanks for your aid. The BY1-1 is a R.F. transistor  for P.A., made by
CTC, but I do not have but data. -
It will continue looking for. -
Greetings
Heriberto
LU6DBU




From -5712027857544770659
X-Google-Thread: fc8b1,ea04ff02a2f72bc8
X-Google-Thread: fc2a5,ea04ff02a2f72bc8
X-Google-Attributes: gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!b2c36a81!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
References: <1179342656.138091.99550@o5g2000hsb.googlegroups.com>
<C270A940.67138%dbowey@comcast.net>   <f2fmpf$qje$1@panix2.panix.com>
<1179410207.069465.327190@w5g2000hsg.googlegroups.com>
Subject: Re: 6BY6 vs 6BE6 in product detectors
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <Cha3i.10952$Ut6.8517@newsread1.news.pas.earthlink.net>
```

```
Date: Fri, 18 May 2007 04:51:46 GMT
NNTP-Posting-Host: 4.242.174.207
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1179463906 4.242.174.207 (Thu, 17 May
2007 21:51:46 PDT)
NNTP-Posting-Date: Thu, 17 May 2007 21:51:46 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.boatanchors:11672
rec.radio.amateur.homebrew:13276
```

There are a number of things that can be considered when using a tube as a mixer. I always thought the 6BE6 was more prone to microphonics than other tubes. That does not show up in the tube manuals.

It is certainly possible that the 6BY6 may handle higher signal levels as a mixer, even though not designed as one. Probably the best test is with a signal generator and in the actual radio.

Colin K7FM

```
From -9182575334680122412
X-Google-Thread: fc2a5,1b1cb664da6ce2b9,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-
mail
From: "Gian, I7SWX" <i7swx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: PA3AKE H-MODE MIXER MEASUREMENT UPDATE
Date: 18 May 2007 06:45:00 -0700
Organization: http://groups.google.com
Lines: 21
Message-ID: <1179495899.975498.207980@q75g2000hsh.googlegroups.com>
NNTP-Posting-Host: 82.49.21.232
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1179495900 23576 127.0.0.1 (18 May 2007 13:45:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 18 May 2007 13:45:00 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; HbTools 4.8.4),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q75g2000hsh.googlegroups.com; posting-host=82.49.21.232;
   posting-account=UdnmUQ0AAABqWSw2iezMYLt5SVbNOulx
Xref: g2news1.google.com rec.radio.amateur.homebrew:13277
```

Hi All,

For those interested in building an FSA3157 H-Mode mixer, I like to

inform you that Martein, PA3AKE, has added a page to his web-site with
the schematic and PCB layout (Eagle format) for the G3SBI 3T H-Mode
Mixer using the FSA3157. See:
9 - Appendix
o   FSA3157 mixer schematic and PCB layout
He has also added the I7SWX 2T H-Mode Mixer schematic to the 2T page.
See:
5 - Homebrew transformers
o   BN43-2402 2-Transfomer H-Mode mixer
These can be found here:

http://www.xs4all. nl/~martein/ pa3ake/hmode/

Enjoy the visit and best 73

Gian
I7SWX

From -4239914592939306429
X-Google-Thread: fc2a5,1b1cb664da6ce2b9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!multikabel.net!
feed20.multikabel.net!surfnet.nl!surfnet.nl!feeder.news.heanet.ie!news.indigo.ie!
not-for-mail
From: Eamon Skelton <Xnospam@oceanfree.net>
Subject: Re: PA3AKE H-MODE MIXER MEASUREMENT UPDATE
Newsgroups: rec.radio.amateur.homebrew
References: <1179495899.975498.207980@q75g2000hsh.googlegroups.com>
User-Agent: pan 0.119 (Karma Hunters)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 15
Message-ID: <xti3i.19722$j7.373727@news.indigo.ie>
Date: Fri, 18 May 2007 14:10:37 GMT
NNTP-Posting-Host: 86.41.131.115
X-Complaints-To: abuse@eircom.net
X-Trace: news.indigo.ie 1179497437 86.41.131.115 (Fri, 18 May 2007 15:10:37 BST)
NNTP-Posting-Date: Fri, 18 May 2007 15:10:37 BST
Organization: Eircom.Net http://www.eircom.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13278

On Fri, 18 May 2007 06:45:00 -0700, Gian, I7SWX wrote:

> For those interested in building an FSA3157 H-Mode mixer...

Thanks Gian,

This is the same link without the spaces:
http://www.xs4all.nl/~martein/pa3ake/hmode/

```
73, Ed. EI9GQ.


--
Remove 'X' to reply by e-mail
Linux 2.6.18


From 7649423522558740349
X-Google-Thread: fc2a5,1b1cb664da6ce2b9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q23g2000hsg.googlegroups.com!not-for-
mail
From: "Gian, I7SWX" <i7swx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PA3AKE H-MODE MIXER MEASUREMENT UPDATE
Date: 18 May 2007 15:34:30 -0700
Organization: http://groups.google.com
Lines: 28
Message-ID: <1179527670.000209.36170@q23g2000hsg.googlegroups.com>
References: <1179495899.975498.207980@q75g2000hsh.googlegroups.com>
   <xti3i.19722$j7.373727@news.indigo.ie>
NNTP-Posting-Host: 82.49.21.232
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1179527678 2554 127.0.0.1 (18 May 2007 22:34:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 18 May 2007 22:34:38 +0000 (UTC)
In-Reply-To: <xti3i.19722$j7.373727@news.indigo.ie>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q23g2000hsg.googlegroups.com; posting-host=82.49.21.232;
   posting-account=UdnmUQ0AAABqWSw2iezMYLt5SVbNOulx
Xref: g2news1.google.com rec.radio.amateur.homebrew:13279


Eamon Skelton ha scritto:

> On Fri, 18 May 2007 06:45:00 -0700, Gian, I7SWX wrote:
>
> > For those interested in building an FSA3157 H-Mode mixer...
>
> Thanks Gian,
>
> This is the same link without the spaces:
> http://www.xs4all.nl/~martein/pa3ake/hmode/
>
> 73, Ed. EI9GQ.
>
```

>
> --
> Remove 'X' to reply by e-mail
> Linux 2.6.18

Hi Ed,

thanks for correction ...

73

Gian
I7SWX

From -8423671924151382618
X-Google-Thread: fc2a5,3191fa2e2871bc2b,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread1.news.pas.earthlink.net.POSTED!84ef5383!not-for-mail
From: "Brian" <kb9bvn@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FS:Motorola Transistors
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <A8C3i.11310$Ut6.1007@newsread1.news.pas.earthlink.net>
Date: Sat, 19 May 2007 12:33:36 GMT
NNTP-Posting-Host: 76.1.25.28
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1179578016 76.1.25.28 (Sat, 19 May 2007 05:33:36 PDT)
NNTP-Posting-Date: Sat, 19 May 2007 05:33:36 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13280

I have about 15 sets of 100 pieces of Motorola PN2222A that are surplus to my needs.

I am asking for $6.00 a set, no shipping charges to the US

There are genuine, new, never used, Motorola parts on paper tape.

Paypal is preferred: orders@hamradparts.com

73 de KB9BVN

From 3040332881761572052
X-Google-Thread: fc8b1,ea04ff02a2f72bc8
X-Google-Thread: fc2a5,ea04ff02a2f72bc8
X-Google-Attributes: gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out01a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!elnk-atl-nf1!newsfeed.earthlink.net!
bigfeed2.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!
news.bellsouth.net!bigfe9.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: 6BY6 vs 6BE6 in product detectors
References: <1179342656.138091.99550@o5g2000hsb.googlegroups.com>
In-Reply-To: <1179342656.138091.99550@o5g2000hsb.googlegroups.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 13
Message-ID: <5EE3i.8940$J6.2365@bigfe9>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
okpbgeeoboblnbegjglefjndcipmdkdcpdidnebhlfgcnenidckpoilofagbnfeocbajcnjcikhmhjpidn
jpfhmbnkoegbaihjdemdcecokebhakomlgcccebcdfdbbm
NNTP-Posting-Date: Sat, 19 May 2007 11:23:45 EDT
Organization: BellSouth Internet Group
Date: Sat, 19 May 2007 11:23:55 -0400
Xref: g2news1.google.com rec.radio.amateur.boatanchors:11679
rec.radio.amateur.homebrew:13281

Tim Shoppa wrote:
> Is there any obvious choice in 6BY6 vs 6BE6 in a product detector?
>
> I've subbed one for the other in replacement uses and there wasn't any
> hugely obvious differences, but maybe if someone told me what to look
> for... :-)
>
> Tim KA0BTD
>

In the famous HBR receiver design by sk W6TC, the product detector was a
6BE6 in the original circuit, but he later changed it to use the 6BY6
claiming that it gave better performance with less cross modulation and
overload.

From 9000336975863895609

```
X-Google-Thread: fc8b1,ea04ff02a2f72bc8
X-Google-Thread: fc2a5,ea04ff02a2f72bc8
X-Google-Attributes: gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bigfe9.POSTED!
ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: 6BY6 vs 6BE6 in product detectors
References: <1179342656.138091.99550@o5g2000hsb.googlegroups.com>
In-Reply-To: <1179342656.138091.99550@o5g2000hsb.googlegroups.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 12
Message-ID: <SFE3i.8941$J6.1638@bigfe9>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
okpbgeeoboblnbegcnehgpikkdogfmmfelnfkomngiejkhagdckpoilofagbnfeocbajcnjcikhmhjpidn
jpfhmbnkoegbaifkgmckahjimhnofbomlgcccebcdfdbbm
NNTP-Posting-Date: Sat, 19 May 2007 11:25:38 EDT
Organization: BellSouth Internet Group
Date: Sat, 19 May 2007 11:25:48 -0400
Xref: g2news1.google.com rec.radio.amateur.boatanchors:11680
rec.radio.amateur.homebrew:13282

Tim Shoppa wrote:
> Is there any obvious choice in 6BY6 vs 6BE6 in a product detector?
>
> I've subbed one for the other in replacement uses and there wasn't any
> hugely obvious differences, but maybe if someone told me what to look
> for... :-)
>
> Tim KA0BTD
>
Here is the link to the HBR receiver tube lineup
http://www.qsl.net/k5bcq/HBR/hbr.html#Tube
showing the use of the 6BY6 as a product detector.


From -4660814009182931693
X-Google-Thread: fc2a5,3303cc0d209adeff,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed.stanford.edu!sn-xt-sjc-02!sn-
xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: VFO....  Zero TC caps
```

Date: Sat, 19 May 2007 22:44:38 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <134vkhon42648a0@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 18
Xref: g2news1.google.com rec.radio.amateur.homebrew:13283

I am in need of zero tc caps for my VFO project but can't seem to find any info on them. Who makes them? What are they called?

Digikey has some with tc's of 200 ppm but that aint zero.

The also have some that are 0 +/- 500 ppm and that makes no sense.

I need two at 1000 pf.

Thanks,

js

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

From 4019812364335462116
X-Google-Thread: fc2a5,7a3b556bcaab54b9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny09.POSTED!2f2a0986!not-for-mail
From: "Joe" <joe.amp@NOSPAMmverizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1170482223.513557.185420@l53g2000cwa.googlegroups.com>
Subject: Re: zenith transoceanic battery packs
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <DSQ3i.11732$Qz.3196@trndny09>
Date: Sun, 20 May 2007 05:18:27 GMT
NNTP-Posting-Host: 72.80.183.61
X-Complaints-To: abuse@verizon.net
X-Trace: trndny09 1179638307 72.80.183.61 (Sun, 20 May 2007 01:18:27 EDT)
NNTP-Posting-Date: Sun, 20 May 2007 01:18:27 EDT

Xref: g2news1.google.com rec.radio.amateur.homebrew:13284

I have tried this
The best converter's zaps a single 9 volt battery in 5 minutes, to much
current
You need to use ten - 9V in series.
I have even tried some Mouser VCR display converters they dont have enough
current.

-Joe

"tack" <tack1@flash.net> wrote in message
news:1170482223.513557.185420@l53g2000cwa.googlegroups.com...
> I have a few of these radios; I'm wanting to put together some battery
> packs for them. Does anyone have a good schematic for a DC-DC
> converter to take 9vdc to 90vdc?
> I'm also going to need to make up a 4-prong connector for the battery
> packs; any ideas anyone? Can the connectors be purchased? Thanks a
> lot
>

From 1565730216462042601
X-Google-Thread: fc2a5,3303cc0d209adeff
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 20 May 2007 06:39:53 -0500
Date: Sat, 19 May 2007 19:43:29 -0400
From: K3HVG <jeepp@comcast.net>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VFO.... Zero TC caps
References: <134vkhon42648a0@corp.supernews.com>
In-Reply-To: <134vkhon42648a0@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <CfOdnU7OVPYUrs3bnZ2dnUVZ_u_inZ2d@comcast.com>
Lines: 19
NNTP-Posting-Host: 68.33.111.19
X-Trace: sv3-wzSihpdJbuIkLt90Fl9RYPVZtUAGMy8pqSbLpn1/IuQg2Tabr43QBDzbBMPqnt02GkK/
kfs6hOOlK83!
wpNrSdUI1h1TiR84PysM63Ag7GOujCpa1P3cuqIiza95NMjDl95+elAxWgZp3h1B3rzhF3l43vyP!
fwAy2tdHDowktGTgaYm22h+/q/uK
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint

properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13285

If I am correct, they are nomenclatured as NPO types. Mouser list NPO caps.

ack Schmidling wrote:
> I am in need of zero tc caps for my VFO project but can't seem to find
> any info on them. Who makes them? What are they called?
>
> Digikey has some with tc's of 200 ppm but that aint zero.
>
> The also have some that are 0 +/- 500 ppm and that makes no sense.
>
> I need two at 1000 pf.
>
> Thanks,
>
> js
>
>
>

From 6492975911080860926
X-Google-Thread: fc2a5,3303cc0d209adeff
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y80g2000hsf.googlegroups.com!not-for-mail
From: skavanagh72nospam@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VFO.... Zero TC caps
Date: 20 May 2007 05:19:24 -0700
Organization: http://groups.google.com
Lines: 12
Message-ID: <1179663564.576814.41200@y80g2000hsf.googlegroups.com>
References: <134vkhon42648a0@corp.supernews.com>
NNTP-Posting-Host: 216.208.52.66
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1179663564 2751 127.0.0.1 (20 May 2007 12:19:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 20 May 2007 12:19:24 +0000 (UTC)
In-Reply-To: <134vkhon42648a0@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y80g2000hsf.googlegroups.com; posting-host=216.208.52.66;
   posting-account=0Ys2Eg0AAADOQYhHmHwRZ2EGbJYic2GH
Xref: g2news1.google.com rec.radio.amateur.homebrew:13286

On May 20, 12:44 am, Jack Schmidling <a...@mc.net> wrote:
> I am in need of zero tc caps for my VFO project but can't seem to find
> any info on them. Who makes them? What are they called?

Ceramic capacitors with nominal zero temperature coefficient are
usually called C0G nowadays, but sometimes the older term NP0 is
used. There's lots in the Digi-Key catalog (mostly surface mount mind
you...if you are looking for through-hole parts).

73,
Steve VE3SMA

From 3951062161224856459
X-Google-Thread: fc2a5,3303cc0d209adeff
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out03b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe20.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <134vkhon42648a0@corp.supernews.com>
Subject: Re: VFO.... Zero TC caps
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <qcZ3i.164350$nh4.161692@newsfe20.lga>
Date: Sun, 20 May 2007 10:47:27 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe20.lga 1179672470 68.0.230.122 (Sun, 20 May 2007 07:47:50 MST)
NNTP-Posting-Date: Sun, 20 May 2007 07:47:50 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13287

"Jack Schmidling" <arf@mc.net> wrote in message
news:134vkhon42648a0@corp.supernews.com...
>I am in need of zero tc caps for my VFO project but can't seem to find any
>info on them. Who makes them? What are they called?
>
> Digikey has some with tc's of 200 ppm but that aint zero.
>
> The also have some that are 0 +/- 500 ppm and that makes no sense.
>

> I need two at 1000 pf.
>
> Thanks,
>
> js

Don't forget, a lot of the drift is caused by the inductor in the resonant circuit, and it will have a positive coefficient. Most VFOs have some compensation using a cap with a negative temp coefficient to compensate.

Pete

```
From 8211138885186881552
X-Google-Thread: fc2a5,7a3b556bcaab54b9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe22.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1170482223.513557.185420@l53g2000cwa.googlegroups.com>
<DSQ3i.11732$Qz.3196@trndny09>
Subject: Re: zenith transoceanic battery packs
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <AqZ3i.144568$mJ1.87444@newsfe22.lga>
Date: Sun, 20 May 2007 11:02:33 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe22.lga 1179673376 68.0.230.122 (Sun, 20 May 2007 08:02:56 MST)
NNTP-Posting-Date: Sun, 20 May 2007 08:02:56 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13288
```

There are quite a few designs in use.

Here's one...

http://www.ling.mq.edu.au/~robinson/Information/Inverter_4W.html

---

```
From -3977634960509631946
```

```
X-Google-Thread: fc2a5,4965206a95688ce4,start
X-Google-Thread: fc8b1,4965206a95688ce4,start
X-Google-Thread: 108122,4965206a95688ce4,start
X-Google-Thread: 111d0a,4965206a95688ce4,start
X-Google-Thread: 113975,4965206a95688ce4,start
X-Google-Attributes: gidfc2a5,gidfc8b1,gid108122,gid111d0a,gid113975,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n59g2000hsh.googlegroups.com!not-for-
mail
From: bill.meara@gmail.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.amateur.equipme
nt,sci.electronics.basics,sci.astro.amateur
Subject: SolderSmoke Podcast
Date: 20 May 2007 08:52:19 -0700
Organization: http://groups.google.com
Lines: 54
Message-ID: <1179676339.877822.313670@n59g2000hsh.googlegroups.com>
NNTP-Posting-Host: 86.142.204.83
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1179676340 17362 127.0.0.1 (20 May 2007 15:52:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 20 May 2007 15:52:20 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n59g2000hsh.googlegroups.com; posting-host=86.142.204.83;
   posting-account=7vRsuQwAAADlh58wGAIfEFYQRw36eW7d
Xref: g2news1.google.com rec.radio.amateur.homebrew:13289
rec.radio.amateur.boatanchors:11695 rec.radio.amateur.equipment:12033
sci.electronics.basics:53568 sci.astro.amateur:80173
```

SolderSmoke!
A SHOW FOR ELECTRONICS HOMEBREWERS!

http://www.soldersmoke.com

Listen at: http://www.soldersmoke.com

SolderSmoke #59

May 20, 2007
Kindred spirits on QRP-L.
Fredbox on 2 meter AM.
New videos.
Hewlett, Packard, Garages and Terman.
LV Blake.

SPECIAL REPORT FROM DAYTON: INTERVIEWS WITH G0BPS,
G3MFJ, G3RJV,K8IQY and W7ZOI!

MAILBAG: W9HAU, NC0O, WD5DZG on source for low value resistors. Scott Haley on thermal noise and the 'ZOI power meter. The need for SolderSmoke correspondents at other summer radio events.

Tired of listening to the Boston Pops or NPR on your I-Pod?   Wouldn't you like to be able to carry with you the kinds of ham radio conversations that you listen to while in your radio shack? Tune in to SolderSmoke!

RSS FEED: You can subscribe to the program, have them downloaded to your MP-3 player, and listen to them at your convenience. To subscribe, just cut and paste this URL into your I-poder (or similar) software.
http://www.soldersmoke.com/soldersmoke.rss

If you don't have an MP3 player you can just go to the site below and listen to the latest program (and earlier editions) using the audio software on your computer.

http://www.soldersmoke.com

All the programs are available here.

I hope you enjoy the program. Please send us feedback.

73 from London
Bill M0HBR N2CQR CU2JL
http://www.gadgeteer.us

From 2157125101714931399
X-Google-Thread: fc2a5,3303cc0d209adeff
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y18g2000prd.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VFO.... Zero TC caps
Date: 20 May 2007 16:45:20 -0700
Organization: http://groups.google.com
Lines: 34
Message-ID: <1179704719.989892.254410@y18g2000prd.googlegroups.com>
References: <134vkhon42648a0@corp.supernews.com>
NNTP-Posting-Host: 71.112.169.44
Mime-Version: 1.0

```
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1179704744 15682 127.0.0.1 (20 May 2007 23:45:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 20 May 2007 23:45:44 +0000 (UTC)
In-Reply-To: <134vkhon42648a0@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y18g2000prd.googlegroups.com; posting-host=71.112.169.44;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news1.google.com rec.radio.amateur.homebrew:13290
```

On May 19, 8:44 pm, Jack Schmidling <a...@mc.net> wrote:

> I am in need of zero tc caps for my VFO project but can't seem to find
> any info on them. Who makes them? What are they called?
>
> Digikey has some with tc's of 200 ppm but that aint zero.
>
> The also have some that are 0 +/- 500 ppm and that makes no sense.
>
> I need two at 1000 pf.
>
> Thanks,
>
> js
>
> --
> PHOTO OF THE WEEK:http://schmidling.com/pow.htm
> Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silverhttp://schmidling.com

Look for C0G ceramic caps, or silvered-mica caps. They both have low temperature coefficients. C0G are normally maximum 30ppm/C. As Uncle Peter suggested, the inductor will normally have a positive temperature coefficient of inductance -- it's easy to see why for an air-core inductor, since it expands and gets bigger as the temperature increases. You can use C0G for much of the total capacitance, and combine that with a cap with a negative temperature coefficient--if you can find one--to get a very low net temperature coefficient of oscillator frequency. These days, it's fairly common to stabilize a VFO with a phase or frequency locked loop, so it becomes mainly short-term stability that you care about in the oscillator design.

Cheers,
Tom

```
From 534936284041445338
X-Google-Thread: fc2a5,6105e3dff440458b,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news1.google.com!news1.google.com!newsfeed.stanford.edu!newsfeed.news.ucla.edu!ucdavis!not-for-mail
From: Skipp says hello <yeahbaby@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Shameless plug for yahoo rfamplifiers group.
Date: Mon, 21 May 2007 22:34:11 +0000 (UTC)
Organization: University of California, Davis
Lines: 11
Sender: Skipp May <skipp@vici.ucdavis.edu>
Message-ID: <f2t6p3$1cd$1@skeeter.ucdavis.edu>
NNTP-Posting-Host: vici.ucdavis.edu
X-Trace: skeeter.ucdavis.edu 1179786851 1421 128.120.47.43 (21 May 2007 22:34:11 GMT)
X-Complaints-To: usenet@ucdavis.edu
NNTP-Posting-Date: Mon, 21 May 2007 22:34:11 +0000 (UTC)
User-Agent: tin/1.4.7-20030322 ("Suggestions") (UNIX) (SunOS/5.8 (sun4u))
Xref: g2news1.google.com rec.radio.amateur.homebrew:13291

Another semi annual shameless plug for the Yahoo RF Amplifiers Group.

http://groups.yahoo.com/group/rfamplifiers/

We also talk about address pretty much any audio/rf amplifier or otherwise legit electronics question.

Come on over and join in if the subject catches your interest!

cheers,
s.

From -3424676805529114632
X-Google-Thread: fc2a5,9f5ac03b91c1fb4e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-mail
From: "DJboutit" <Recordking@Hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <464c6ceb$0$19460$4c368faf@roadrunner.com>
Subject: Re: Check Out Texas CB Forum
Date: Mon, 21 May 2007 19:39:43 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Lines: 3
Message-ID: <46523595$0$9001$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13292

Address changed to www.texascbforum.co.sr

```
From 5129818244785143532
X-Google-Thread: 112d1e,4c2b614a34c6aea2,start
X-Google-Thread: fc2a5,4c2b614a34c6aea2,start
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
q66g2000hsg.googlegroups.com!not-for-mail
From: john@feith.com
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: .5-600 MHz LT5512 impedance matching
Date: 22 May 2007 16:25:32 -0700
Organization: http://groups.google.com
Lines: 59
Message-ID: <1179876332.046883.222850@q66g2000hsg.googlegroups.com>
NNTP-Posting-Host: 192.251.93.16
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1179876332 23401 127.0.0.1 (22 May 2007 23:25:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 22 May 2007 23:25:32 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; SunOS i86pc; en-US; rv:1.7) Gecko/
20051027,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q66g2000hsg.googlegroups.com; posting-host=192.251.93.16;
   posting-account=pWWnBg0AAABRS67ySxV9IjQTzaIXw7NT
Xref: g2news1.google.com sci.electronics.design:252657
rec.radio.amateur.homebrew:13293
```

I'm working on a homebrewed receiver and am looking at using the
LT5512
as the mixer. I'm not sure of how to arrange an impedance match and
unbalance to balance conversion over a wide range. Perhaps people
can comment on the following so I can see if I'm on the right track.

The LT5512 datasheet says:

Frequency	Impedance
10MHz	18.2 + j0.14
240MHz	18.1 + j2.8
450MHz	18.1 + j5.2

One simple approach seems to be:

```
  50 ohm input -   -----------   -----------|---------- IN+
                ) (           ) (          ___
                ) (           ) (- ground  --- 6 pF         LT5512
                ) (           ) (           |
        ground -   -----------   -----------|---------- IN-
                3:1           1:1
              Coilcraft      Coilcraft
              WBC3-1TL       WBC1-1TL
```

The 3:1 transformer converts the unbalanced 50 ohm input to 16.67
ohms.
The 1:1 center tap transformer converts the unbalanced 16.67 ohms to a
balanced 16.67 ohms. The center tap also supplies a DC ground for
biasing the LT5512 inputs. The 6 pF capactor reactance is:

Frequency	Reactance
10MHz	2652.58
240MHz	110.52
450MHz	58.95

placing it in parallel with the LT5512 inputs results in:

Frequency	Impedance
10MHz	1/(1/(18.2 + j0.14) + 1/2652.58) = 18.21
240MHz	1/(1/(18.1 + j2.8) + 1/110.52) = 17.58
450MHz	1/(1/(18.1 + j5.2) + 1/58.95) = 16.7

Questions:

1) How off base is my simple analysis?

2) Is there a better way to do this?

3) How significant is the 1.6 ohm mismatch at 10 MHz?

-- John

```
-------------------------------------------------------------------------
|   Feith Systems  |   Voice: 1-215-646-8000  |  Email:
john@feith.com  |
|    John Wehle    |     Fax: 1-215-540-5495
|                          |
-------------------------------------------------------------------------
```

From -7192090994522845130
X-Google-Thread: 112d1e,856673d554007ef6,start
X-Google-Thread: fc2a5,856673d554007ef6,start
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!postnews.google.com!
q69g2000hsb.googlegroups.com!not-for-mail
From: john@feith.com
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: .5-600 MHz AD8343 vs LT5512
Date: 22 May 2007 16:44:21 -0700

```
Organization: http://groups.google.com
Lines: 18
Message-ID: <1179877461.486036.144990@q69g2000hsb.googlegroups.com>
NNTP-Posting-Host: 192.251.93.16
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1179877461 26368 127.0.0.1 (22 May 2007 23:44:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 22 May 2007 23:44:21 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; SunOS i86pc; en-US; rv:1.7) Gecko/
20051027,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q69g2000hsb.googlegroups.com; posting-host=192.251.93.16;
   posting-account=pWWnBg0AAABRS67ySxV9IjQTzaIXw7NT
Xref: g2news1.google.com sci.electronics.design:252661
rec.radio.amateur.homebrew:13294

I'm working on a homebrewed receiver and am looking at using either
the
AD8343 or LT5512 as the mixer.  They seem very similar in
capabilities.
The AD8343 appears to have slightly better LO to IF port isolation but
a more complication input biasing.

What the tradeoffs of using the AD8343 vs LT5512 for converting
.5-600 MHz RF to 140 MHz IF?

-- John
-------------------------------------------------------------------------
|   Feith Systems  |   Voice: 1-215-646-8000  |  Email:
john@feith.com  |
|    John Wehle    |     Fax: 1-215-540-5495
|                          |
-------------------------------------------------------------------------




From -6787452463114527097
X-Google-Thread: 103407,36714d10b3de718e,start
X-Google-Thread: 114671,36714d10b3de718e,start
X-Google-Thread: fcc6e,36714d10b3de718e,start
X-Google-Thread: 11480d,36714d10b3de718e,start
X-Google-Thread: fc2a5,36714d10b3de718e,start
X-Google-Attributes: gid103407,gid114671,gidfcc6e,gid11480d,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out01b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!novia!
news1.optus.net.au!optus!newsfeeder.syd.optusnet.com.au!news.optusnet.com.au!
newsfeed.pacific.net.au!token.pipenetworks.com!218.100.2.59.MISMATCH!not-for-mail
From: "Mac" <vk2evb@hotmail.com>
Newsgroups:
aus.electronics,aus.radio.amateur.misc,rec.radio.amateur.antenna,rec.radio.amateur
```

.dx,rec.radio.amateur.homebrew
Subject: High School looking for IRLP contacts VK, ZL or Asia-pacific
Date: Wed, 23 May 2007 11:14:49 +1000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <46539585_8@news.peopletelecom.com.au>
X-Original-NNTP-Posting-Host: news.people.net.au
Lines: 31
NNTP-Posting-Host: 202.154.92.95
X-Trace: 1179883027 un-2park-reader-01.sydney.pipenetworks.com.au 4605
202.154.92.95:57114
X-Complaints-To: Abuse, including message IDs to abuse@pipenetworks.com
Xref: g2news1.google.com aus.electronics:24417 aus.radio.amateur.misc:9059
rec.radio.amateur.antenna:41542 rec.radio.amateur.dx:3515
rec.radio.amateur.homebrew:13295

Hi There,

The Bishop Druit College Radio Club
http://www.qsl.net/mm0axl/mncarg/bdc.html
situated in the Mid North Coast of NSW Australia at Coffs Harbour are
looking forward
to making Local or DX IRLP contacts on Fridays 0315 - 0345 UTC.

Contacts will be on IRLP node 6625 via local repeater VK2RDO on 146.650Mhz.

The young people in the club have been experimenting with building simple FM
radio recievers, and have been contemplating the design of plasma balls
using ordinary light
globes and car spark coils.

Contacts with interested parties or similar school electronic/radio groups
would be great but unfortunately the club only has limited time during the
local
lunchtime period.

If interested and can help arrange a contact please email:

Gary VK2ZKT gryan@bdc.nsw.edu.au

or

Peter VK2EVB vk2evb@wia.org.au

From 736452006212348394

```
X-Google-Thread: 112d1e,4c2b614a34c6aea2
X-Google-Thread: fc2a5,4c2b614a34c6aea2
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!h2g2000hsg.googlegroups.com!not-for-
mail
From: Tom Bruhns <k7itm@msn.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: .5-600 MHz LT5512 impedance matching
Date: 22 May 2007 21:45:10 -0700
Organization: http://groups.google.com
Lines: 101
Message-ID: <1179895510.106899.315990@h2g2000hsg.googlegroups.com>
References: <1179876332.046883.222850@q66g2000hsg.googlegroups.com>
NNTP-Posting-Host: 71.112.169.44
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1179895515 26249 127.0.0.1 (23 May 2007 04:45:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 23 May 2007 04:45:15 +0000 (UTC)
In-Reply-To: <1179876332.046883.222850@q66g2000hsg.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h2g2000hsg.googlegroups.com; posting-host=71.112.169.44;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news1.google.com sci.electronics.design:252698
rec.radio.amateur.homebrew:13296

On May 22, 4:25 pm, j...@feith.com wrote:
> I'm working on a homebrewed receiver and am looking at using the
> LT5512
> as the mixer.  I'm not sure of how to arrange an impedance match and
> unbalance to balance conversion over a wide range.  Perhaps people
> can comment on the following so I can see if I'm on the right track.
>
> The LT5512 datasheet says:
>
>   Frequency     Impedance
>    10MHz        18.2 + j0.14
>   240MHz        18.1 + j2.8
>   450MHz        18.1 + j5.2
>
> One simple approach seems to be:
>
>   50 ohm input -   -----------   -----------|---------- IN+
>                 ) (           ) (          ___
>                 ) (           ) (- ground  --- 6 pF         LT5512
>                 ) (           ) (           |
>         ground -   -----------   -----------|---------- IN-
>                 3:1           1:1
>               Coilcraft      Coilcraft
>                WBC3-1TL       WBC1-1TL
>
> The 3:1 transformer converts the unbalanced 50 ohm input to 16.67
> ohms.
> The 1:1 center tap transformer converts the unbalanced 16.67 ohms to a
> balanced 16.67 ohms.  The center tap also supplies a DC ground for
> biasing the LT5512 inputs.  The 6 pF capacitor reactance is:
>
>   Frequency     Reactance
>    10MHz        2652.58
>   240MHz        110.52
>   450MHz        58.95
>
> placing it in parallel with the LT5512 inputs results in:
>
>   Frequency     Impedance
>    10MHz        1/(1/(18.2 + j0.14) + 1/2652.58) = 18.21
>   240MHz        1/(1/(18.1 + j2.8) + 1/110.52) = 17.58
>   450MHz        1/(1/(18.1 + j5.2) + 1/58.95) = 16.7
>
> Questions:
>
>   1) How off base is my simple analysis?
>
>   2) Is there a better way to do this?
>
>   3) How significant is the 1.6 ohm mismatch at 10 MHz?
>
> -- John
> -------------------------------------------------------------------------
> |   Feith Systems  |   Voice: 1-215-646-8000  |  Email:
> j...@feith.com  |
> |    John Wehle    |     Fax: 1-215-540-5495
> |                         |
> -------------------------------------------------------------------------
```

There's no need to worry about such a small mismatch. Especially if you will be connecting the antenna directly to the input, you're pretty much guaranteed that the source won't be 50 ohms at any but a very few spot frequencies. It will have reactance and resistance that varies all over the map. But even if it's driven from an amplifier, I can guarantee that between the transformer(s), the layout, and the amplifier itself, you won't have a match within 10% over very much of that wide band.

You can use the freeware RFSim99 to play lots of "what-if" games, including seeing how much loss there really is for various impedance mismatches. RFSim99 also comes with a program called "spur search" that you may find useful in indentifying mixer spurs (and intermod products).

In any event, you likely will end up being more interested in the noise figure than in the power match; you'll want to match for lowest noise, which is essentially never the same as matching for best power transfer.

Another thing you should be careful about is selectivity: if you let everything from the AM broadcast band up through UHF TV into the input, you will be letting in some big signals along with the presumably small ones you will be interested in, and distortion products will limit what you'll be able to hear. It's customary to put some selectivity ahead of the first less-than-stellar-linearity parts such as that mixer. If you had a +65dBm input-referred third order intercept, I'd say you could probably do without the selectivity, but much less than that and you'll benefit from selectivity. There are times when you can't do that, like if you want to digitize a wide bandwidth all at once, but it doesn't sound like that's what you are after.

There are some good books on modern receiver design. Maybe your library has one or could get one for you. Even a quick review of the key issues would probably benefit you, if you haven't already done that.

Cheers,
Tom

From -1065776602430506398
X-Google-Thread: fc2a5,69115af0de411881,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out03b.usenetserver.com!news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-in-02.newsfeed.easynews.com!easynews.com!easynews!sn-xt-sjc-02!sn-xt-sjc-10!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Self Osc Problem
Date: Tue, 22 May 2007 23:23:47 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1357jv4id3bka8a@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 23
Xref: g2news1.google.com rec.radio.amateur.homebrew:13297

I am building an exciter for my 8000 rig. 6AG7 VFO, 6CL6 buffer and 807 final.

I am plagued with the problem that resonance in the final does not agree
with peak power out.

The power peak (watt meter or light bulb) is a considerable twist south
of the plate current dip.

Looking at the output on a scope shows nothing strange about the wave
shape as the amplitude increases beyond the dip.

I have tried neutralizing with coupled links between the input and
output tanks but it makes no difference nor does anything else I have tried.

Any ideas would be welcome.

Jack K9ACT

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

From 3484049287871732157
X-Google-Thread: fc2a5,69115af0de411881
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o5g2000hsb.googlegroups.com!not-for-mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self Osc Problem
Date: 23 May 2007 01:40:48 -0700
Organization: http://groups.google.com
Lines: 38
Message-ID: <1179909648.662121.71210@o5g2000hsb.googlegroups.com>
References: <1357jv4id3bka8a@corp.supernews.com>
NNTP-Posting-Host: 222.155.189.220
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In-Reply-To: <1357jv4id3bka8a@corp.supernews.com>
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Complaints-To: groups-abuse@google.com
Injection-Info: o5g2000hsb.googlegroups.com; posting-host=222.155.189.220;
   posting-account=0vCTfAwAAACvA6pNXnot7Fa7QcUC1A3e
Xref: g2news1.google.com rec.radio.amateur.homebrew:13299

Hi Jack,

Have you tried the PA without any excitation ?

Do you have an APC in the anode line, and an approprate RFC to HT
(with good decoupling to chassis) ?

How about grid stoppers ?

Regards,

Mark

On May 23, 5:23 pm, Jack Schmidling <a...@mc.net> wrote:
> I am building an exciter for my 8000 rig. 6AG7 VFO, 6CL6 buffer and 807
> final.
>
> I am plagued with the problem that resonance in the final does not agree
> with peak power out.
>
> The power peak (watt meter or light bulb) is a considerable twist south
> of the plate current dip.
>
> Looking at the output on a scope shows nothing strange about the wave
> shape as the amplitude increases beyond the dip.
>
> I have tried neutralizing with coupled links between the input and
> output tanks but it makes no difference nor does anything else I have tried.
>
> Any ideas would be welcome.
>
> Jack K9ACT
>
> --
> PHOTO OF THE WEEK:http://schmidling.com/pow.htm
> Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silverhttp://schmidling.com

From -4840889107101999263
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!u30g2000hsc.googlegroups.com!not-for-mail
From: mrhaney <w4pqw@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self Osc Problem
Date: 23 May 2007 03:27:26 -0700
Organization: http://groups.google.com
Lines: 32
Message-ID: <1179916046.592128.83320@u30g2000hsc.googlegroups.com>
References: <1357jv4id3bka8a@corp.supernews.com>
NNTP-Posting-Host: 68.109.10.119

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NNTP-Posting-Date: Wed, 23 May 2007 10:27:29 +0000 (UTC)
In-Reply-To: <1357jv4id3bka8a@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
FunWebProducts),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: u30g2000hsc.googlegroups.com; posting-host=68.109.10.119;
   posting-account=1DJ5AwwAAAARxlmaHomBOSyfP8FvFcub
Xref: g2news1.google.com rec.radio.amateur.homebrew:13300

On May 23, 12:23 am, Jack Schmidling <a...@mc.net> wrote:
> I am building an exciter for my 8000 rig. 6AG7 VFO, 6CL6 buffer and 807
> final.
>
> I am plagued with the problem that resonance in the final does not agree
> with peak power out.
>
> The power peak (watt meter or light bulb) is a considerable twist south
> of the plate current dip.
>
> Looking at the output on a scope shows nothing strange about the wave
> shape as the amplitude increases beyond the dip.
>
> I have tried neutralizing with coupled links between the input and
> output tanks but it makes no difference nor does anything else I have tried.
>
> Any ideas would be welcome.
>
> Jack K9ACT
>
> --
> PHOTO OF THE WEEK:http://schmidling.com/pow.htm
> Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silverhttp://schmidling.com

Jack, am a believer in the grid dipper,double check the buffer and PA
tuning ,make sure that they are on frequency and not doubling .If 807
has Pi network,make sure cap C1 nd C2 are in ball park for tuning
range of each band..Handbook wll give these values...Unplug 807 and
make sure the 6AG7 is on freq and on resonance.. think you hae a good
choice with tube lineup.just need to get it to settle down...GL   73
Harold W4PQW

From -1252428989392085648
X-Google-Thread: fc2a5,d1a33f05206423db,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!g4g2000hsf.googlegroups.com!not-for-

```
mail
From: KB8M <kb8m06@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Rocket Telemetry
Date: 23 May 2007 05:29:56 -0700
Organization: http://groups.google.com
Lines: 3
Message-ID: <1179923396.034034.197350@g4g2000hsf.googlegroups.com>
NNTP-Posting-Host: 205.196.133.2
Mime-Version: 1.0
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1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: g4g2000hsf.googlegroups.com; posting-host=205.196.133.2;
   posting-account=aH-aBw0AAAD_Mul5nFwXkOTgwJWrqBDk
Xref: g2news1.google.com rec.radio.amateur.homebrew:13301

Anyone build the near earth model rocket telemetry project from QST?
Seems to work well although I have not launched it yet.



From -8034696058572911633
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X-Google-Language: ENGLISH,ASCII-7-bit
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newshosting.com!198.186.194.247.MISMATCH!news-out.readnews.com!news-
xxxfer.readnews.com!panix!panix1.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self Osc Problem
Date: Wed, 23 May 2007 09:11:38 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 72
Message-ID: <Pine.NEB.4.64.0705230856230.933@panix1.panix.com>
References: <1357jv4id3bka8a@corp.supernews.com>
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NNTP-Posting-Date: Wed, 23 May 2007 13:11:39 +0000 (UTC)
In-Reply-To: <1357jv4id3bka8a@corp.supernews.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:13302
```

On Tue, 22 May 2007, Jack Schmidling wrote:

> I am building an exciter for my 8000 rig. 6AG7 VFO, 6CL6 buffer and 807
> final.

It would help to get more details from you. What frequency is all of this for? Link-tank output? Or pi-network? Are the coils of the tank/pi-net according to specification (from some plans)? Do you know that the VFO is on frequency? Are you doubling in the 6CL6?

> I am plagued with the problem that resonance in the final does not agree with
> peak power out.

Can you removed B+ from the VFO and twist your driver and final tune knobs and get dips in plate, grid current (signs of self-oscillation)? Do you generate grid bias in the final from a grid power supply or rectified drive power?

I have had some experience with matching networks between the final and the load having slight disagreements between peak output power and maximum dip in plate current. Not to worry if the difference is slight.

Most important: find out if the final is self-oscillating (remove drive and rotate final tuning knob to see if there is any wiggle in plate current at any point).

> The power peak (watt meter or light bulb) is a considerable twist south of
> the plate current dip.

What is a considerable twist? five degrees of arc? or 45 degrees of arc? What is your load? Dummy load?

> Looking at the output on a scope shows nothing strange about the wave shape
> as the amplitude increases beyond the dip.

All sine waves should look like sine waves.

> I have tried neutralizing with coupled links between the input and output
> tanks but it makes no difference nor does anything else I have tried.

This can be very difficult to do. If your frequency is HF or low HF you shouldn't have to do this. Most old commercial HF tube rigs did not have neutralization and they worked fine.

> Any ideas would be welcome.

You do have the screen grids grounded through good RF bypass capacitors, right? Once I forgot to add these to a 6146 amp and it self-oscillated at 160 meters (it should not do that) until I put in a good screen to ground bypass capacitor.

Another area where you have to look out for a mistake is if you have the coil/inductor at the grid input of the final located where it can pick up the magnetic field from the final plate output coil/inductor, which can contribute to making the final just a self-excited oscillator.

So, the next question is: if you get a dip in the final plate current at some position of the plate tuning capacitor, then does that final plate current change if you also tune the grid input capacitor? If yes, then your final has a configuration to make itself a self-excited oscillator, and the next thing is to look for how feedback can be contributing to that.

> Jack K9ACT
>
>
> --
> PHOTO OF THE WEEK: http://schmidling.com/pow.htm
> Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com
>

From 8595009876008136936
X-Google-Thread: fc2a5,69115af0de411881
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!news.astraweb.com!
router1.astraweb.com!sn-xt-sjc-05!sn-xt-sjc-09!sn-xt-sjc-07!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self Osc Problem
Date: Wed, 23 May 2007 07:23:26 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1358g2fhsn5710d@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <1357jv4id3bka8a@corp.supernews.com>
<1179899716.035321.137600@u30g2000hsc.googlegroups.com>
In-Reply-To: <1179899716.035321.137600@u30g2000hsc.googlegroups.com>
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Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 28
Xref: g2news1.google.com rec.radio.amateur.homebrew:13303

MarkAren wrote:
> Hi Jack,
>
> Have you tried removing drive to the PA and looked for output RF ?

Roger. Just pegs the meter with no output.

> Grid stoppers in place ?

What's a grid stopper?

> APC in the PA anode ?

What's APC?
>
> Any chance of a photo to look at construction techniques ?

Sure. http://schmidling.com/807a.jpg

Needs a little cleaning up. Note the careful placement of the grid coil
at right angles to the final and with the Masonite panel between for
good shielding.

js

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PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

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From -257434091427865713
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q19g2000prn.googlegroups.com!not-for-mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self Osc Problem
Date: 23 May 2007 12:02:29 -0700
Organization: http://groups.google.com
Lines: 65
Message-ID: <1179946948.924973.64590@q19g2000prn.googlegroups.com>
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NNTP-Posting-Date: Wed, 23 May 2007 19:03:04 +0000 (UTC)
In-Reply-To: <1358g2fhsn5710d@corp.supernews.com>
User-Agent: G2/1.0
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Injection-Info: q19g2000prn.googlegroups.com; posting-host=222.155.189.220;
   posting-account=0vCTfAwAAACvA6pNXnot7Fa7QcUC1A3e
Xref: g2news1.google.com rec.radio.amateur.homebrew:13304

Hi Jack,

Grid stoppers: A low value resistor (100 ohms) attached directly between G2 and the screen supply to reduce the incidental Q of circuit. Same applies to G1.

APC - Anti Parasitic Choke. A few turns (10 ?) of 22AWG enameled copper wire around the out side of and terminated with a 10 ohm 1W resistor. If the AMP becomes unstable at VHF, the reactance of the small inductor will increase and the 10 ohm resistor will dampen the mayhem.

See http://www.somis.org/Oct88qst.html

>From your photo, I think you may need to considerably reduce the length of your wiring before you should tackle stability issues. Anode circuits should be above chassis, grid below chassis and never the twain should intertwine. It looks like you make have lots of inductive coupling between the two at the moment (long wires etc.) which may well be the cause of your problems.

Also take care of proper de-coupling - directly to chassis with minimum lead lengths (1 inch max ?).

Get a 1960s copy of the ARRL handbook and read up on HF amplifier construction techniques. There has been plenty written.

Regards,

Mark.

On May 24, 1:23 am, Jack Schmidling <a...@mc.net> wrote:
> MarkAren wrote:
> > Hi Jack,
>
> > Have you tried removing drive to the PA and looked for output RF ?
>
> Roger. Just pegs the meter with no output.
>
> > Grid stoppers in place ?
>
> What's a grid stopper?
>
> > APC in the PA anode ?
>
> What's APC?
>
>
>
> > Any chance of a photo to look at construction techniques ?
>
> Sure. http://schmidling.com/807a.jpg
>
> Needs a little cleaning up. Note the careful placement of the grid coil
> at right angles to the final and with the Masonite panel between for

> good shielding.
>
> js
>
> --
> PHOTO OF THE WEEK:http://schmidling.com/pow.htm
> Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silverhttp://schmidling.com

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From 3395762992743891621
X-Google-Thread: fc2a5,69115af0de411881
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!z28g2000prd.googlegroups.com!not-for-mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self Osc Problem
Date: 23 May 2007 12:04:08 -0700
Organization: http://groups.google.com
Lines: 65
Message-ID: <1179947048.322248.233430@z28g2000prd.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 23 May 2007 19:04:50 +0000 (UTC)
In-Reply-To: <1358g2fhsn5710d@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: z28g2000prd.googlegroups.com; posting-host=222.155.189.220;
   posting-account=0vCTfAwAAACvA6pNXnot7Fa7QcUC1A3e
Xref: g2news1.google.com rec.radio.amateur.homebrew:13305

Hi Jack,

Grid stoppers: A low value resistor (100 ohms) attached directly between G2 and the screen supply to reduce the incidental Q of circuit. Same applies to G1.

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Mark.

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> MarkAren wrote:
> > Hi Jack,
>
> > Have you tried removing drive to the PA and looked for output RF ?
>
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>
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>
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>
> > APC in the PA anode ?
>
> What's APC?
>
>
>
> > Any chance of a photo to look at construction techniques ?
>
> Sure. http://schmidling.com/807a.jpg
>
> Needs a little cleaning up. Note the careful placement of the grid coil
> at right angles to the final and with the Masonite panel between for
> good shielding.
>
> js
>
> --
> PHOTO OF THE WEEK:http://schmidling.com/pow.htm
> Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silverhttp://schmidling.com

From -6023717480349335686
X-Google-Thread: fc2a5,69115af0de411881
X-Google-Attributes: gidfc2a5,public,usenet
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Path: g2news1.google.com!news1.google.com!news2.google.com!
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NNTP-Posting-Date: Wed, 23 May 2007 17:27:55 -0500
Date: Wed, 23 May 2007 15:31:47 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self Osc Problem
References: <1179947048.322248.233430@z28g2000prd.googlegroups.com>
In-Reply-To: <1179947048.322248.233430@z28g2000prd.googlegroups.com>
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Lines: 32
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+xeEc7cMcJirapwOUHk5ea+mxR/uwUhDJWOgcwcuVsnfbOkVL6qfytPMG7ioa8TnqIzaVgH+upb0!
XRj2Bd4N0kZwFPS9
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13306

MarkAren wrote:
> Hi Jack,

-- snip --
>
> APC - Anti Parasitic Choke. A few turns (10 ?) of 22AWG enameled
> copper wire around the out side of and terminated with a 10 ohm 1W
> resistor. If the AMP becomes unstable at VHF, the reactance of the
> small inductor will increase and the 10 ohm resistor will dampen the
> mayhem.
>
> See http://www.somis.org/Oct88qst.html
>
-- snip again --

I have read that these are better built with a bit of resistance wire,
because the inductor is reputed to sometimes work too well.

I dunno the details though -- all my work ends up being QRP, so I
haven't had occasion to make such a beastie.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

---

```
From -7476871495768416194
X-Google-Thread: fc2a5,69115af0de411881
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out02b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!news-
in-02.newsfeed.easynews.com!easynews.com!easynews!sn-xt-sjc-03!sn-xt-sjc-06!sn-
post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self Osc Problem
Date: Wed, 23 May 2007 18:26:16 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1359mtbks8vj207@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <1179946948.924973.64590@q19g2000prn.googlegroups.com>
In-Reply-To: <1179946948.924973.64590@q19g2000prn.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 31
Xref: g2news1.google.com rec.radio.amateur.homebrew:13307
```

MarkAren wrote:

> Grid stoppers: A low value resistor (100 ohms) attached directly
> between G2 and the screen supply to reduce the incidental Q of
> circuit.

OK but the supply is a 12K resistor from the plate supply. Guess I
don't see what a 100 in series with this would do.

>Same applies to G1.

Where does that go? There is a 47K grid leak going through the meter to
ground and a coupling cap from the driver.

So what is this grid stopper supposed to do?

> APC - Anti Parasitic Choke.

Roger. The A caused a brain cramp. I have one in there.

> Get a 1960s copy of the ARRL handbook and read up on HF amplifier
> construction techniques. There has been plenty written.

I have 49, 57, 61 and 73 one of which I take to bed with me every night.

js

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

From 8236248252532056731
X-Google-Thread: fc2a5,69115af0de411881
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q69g2000hsb.googlegroups.com!not-for-mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self Osc Problem
Date: 24 May 2007 02:19:29 -0700
Organization: http://groups.google.com
Lines: 52
Message-ID: <1179998369.427349.116270@q69g2000hsb.googlegroups.com>
References: <1179946948.924973.64590@q19g2000prn.googlegroups.com>
   <1359mtbks8vj207@corp.supernews.com>
NNTP-Posting-Host: 222.155.189.220
Mime-Version: 1.0
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X-Trace: posting.google.com 1179998369 23163 127.0.0.1 (24 May 2007 09:19:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 24 May 2007 09:19:29 +0000 (UTC)
In-Reply-To: <1359mtbks8vj207@corp.supernews.com>
User-Agent: G2/1.0
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Complaints-To: groups-abuse@google.com
Injection-Info: q69g2000hsb.googlegroups.com; posting-host=222.155.189.220;
   posting-account=0vCTfAwAAACvA6pNXnot7Fa7QcUC1A3e
Xref: g2news1.google.com rec.radio.amateur.homebrew:13308

Hi Jack,

See if you can find a project called "A 75 to 120 Watt CW transmitter"
in any of your ARRL manuals, (1973 ?).

Z1 is the APC, RFC4 is the anode RFC, there is a 10R grid stopper on G1 (pin 5), Decoupling abounds (including the heaters), band switch shorts unused turns of the output inductor, top chassis shows anode wiring only, bottom chassis shows grid and drive electronics.

I haven't read the whole article yet, but it seems like a well designed beastie and a good starting point.

Keep a change of fresh underwear next to the rubber gloves :)

Regards,

Mark

On May 24, 12:26 pm, Jack Schmidling <a...@mc.net> wrote:

> MarkAren wrote:
> > Grid stoppers: A low value resistor (100 ohms) attached directly
> > between G2 and the screen supply to reduce the incidental Q of
> > circuit.
>
> OK but the supply is a 12K resistor from the plate supply. Guess I
> don't see what a 100 in series with this would do.
>
> >Same applies to G1.
>
> Where does that go? There is a 47K grid leak going through the meter to
> ground and a coupling cap from the driver.
>
> So what is this grid stopper supposed to do?
>
> > APC - Anti Parasitic Choke.
>
> Roger. The A caused a brain cramp. I have one in there.
>
> > Get a 1960s copy of the ARRL handbook and read up on HF amplifier
> > construction techniques. There has been plenty written.
>
> I have 49, 57, 61 and 73 one of which I take to bed with me every night.
>
> js
>
> --
> PHOTO OF THE WEEK:http://schmidling.com/pow.htm
> Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silverhttp://schmidling.com

From 8178941840481669225
X-Google-Thread: fc2a5,69115af0de411881
X-Google-Attributes: gidfc2a5,public,usenet

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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q69g2000hsb.googlegroups.com!not-for-
mail
From: Andrew VK3BFA <ablight@alphalink.com.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self Osc Problem
Date: 24 May 2007 06:17:17 -0700
Organization: http://groups.google.com
Lines: 60
Message-ID: <1180012637.056712.283780@q69g2000hsb.googlegroups.com>
References: <1357jv4id3bka8a@corp.supernews.com>
   <1179899716.035321.137600@u30g2000hsc.googlegroups.com>
   <1358g2fhsn5710d@corp.supernews.com>
NNTP-Posting-Host: 218.215.144.151
Mime-Version: 1.0
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X-Trace: posting.google.com 1180012637 20617 127.0.0.1 (24 May 2007 13:17:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 24 May 2007 13:17:17 +0000 (UTC)
In-Reply-To: <1358g2fhsn5710d@corp.supernews.com>
User-Agent: G2/1.0
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20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q69g2000hsb.googlegroups.com; posting-host=218.215.144.151;
   posting-account=EWANPAwAAAAIMf8u_DoGHaMCx0gCEW5D
Xref: g2news1.google.com rec.radio.amateur.homebrew:13309

On May 23, 11:23 pm, Jack Schmidling <a...@mc.net> wrote:
> MarkAren wrote:
> > Hi Jack,
>
> > Have you tried removing drive to the PA and looked for output RF ?
>
> Roger.  Just pegs the meter with no output.
>
> > Grid stoppers in place ?
>
> What's a grid stopper?
>
> > APC in the PA anode ?
>
> What's APC?
>
>
>
> > Any chance of a photo to look at construction techniques ?
>
> Sure.  http://schmidling.com/807a.jpg
>
> Needs a little cleaning up.  Note the careful placement of the grid coil
> at right angles to the final and with the Masonite panel between for
> good shielding.
```

>

ERK! - looks like a 6146 PA, rather than an 807. And, congrats at the attempt, (LOVE the agricultural look - wheres the PTO for the chaff cutter?) BUT theres too much loose wiring providing stray coupling paths - AND you do need to use a metal chassis, even if only to separate the input/output circuitry. A piece of light gauge aluminium sandwiched(sp?) on top of your present chassis would do it.....easy to work with simple tools, no bends.....or do what the old timers did, go to the supermarket, buy a sheetmetal baking tray from the Homewares section)

BTW - while your there, buy one of those cheap white plastic kitchen cutting boards - easy to work, a lovely source of insulating material for standoffs, insulators etc...

And whats with the 3 big wire wound resistors? - screen supply to the PA - what a potential source of stray coupling. A 1 watt resistor is usually sufficient, you wont need the string of 10 watt ones.... (especially sitting under the lead from the anode of your PA stage..) And the anode tuning is about 100 yards from the tube! - can you get it any closer?

So saying all that, general rule of RF stability is to bypass EVERYTHING, including any existing bypass circuitry. (This is why a metal chassis is so good...no long leads on bypass caps)In this HF cct, a handful of 0.1 or even 0.01 caps would be a good try....wack em everywhere. Go buy heaps, they will be most useful for other stuff as well. 630V polyester/polystyrene are easily and commonly and cheaply available...

And keep going - its worth the effort -

Andrew VK3BFA.

From 1301837232464386695
X-Google-Thread: fc2a5,69115af0de411881
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q19g2000prn.googlegroups.com!not-for-mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self Osc Problem
Date: 24 May 2007 11:14:32 -0700
Organization: http://groups.google.com
Lines: 72
Message-ID: <1180030472.651901.107780@q19g2000prn.googlegroups.com>
References: <1357jv4id3bka8a@corp.supernews.com>
   <1179899716.035321.137600@u30g2000hsc.googlegroups.com>
   <1358g2fhsn5710d@corp.supernews.com>

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   <1180012637.056712.283780@q69g2000hsb.googlegroups.com>
NNTP-Posting-Host: 222.155.189.220
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Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180030481 5407 127.0.0.1 (24 May 2007 18:14:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 24 May 2007 18:14:41 +0000 (UTC)
In-Reply-To: <1180012637.056712.283780@q69g2000hsb.googlegroups.com>
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2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q19g2000prn.googlegroups.com; posting-host=222.155.189.220;
   posting-account=0vCTfAwAAACvA6pNXnot7Fa7QcUC1A3e
Xref: g2news1.google.com rec.radio.amateur.homebrew:13310

Hi Andrew,

Yes, the example I quoted was for a 6146, but same construction and
circuit elements apply.

I just wanted to give concrete examples of the elements I was talking
about.

-M

On May 25, 1:17 am, Andrew VK3BFA <abli...@alphalink.com.au> wrote:
> On May 23, 11:23 pm, Jack Schmidling <a...@mc.net> wrote:
>
> > MarkAren wrote:
> > > Hi Jack,
>
> > > Have you tried removing drive to the PA and looked for output RF ?
>
> > Roger.  Just pegs the meter with no output.
>
> > > Grid stoppers in place ?
>
> > What's a grid stopper?
>
> > > APC in the PA anode ?
>
> > What's APC?
>
> > > Any chance of a photo to look at construction techniques ?
>
> > Sure.  http://schmidling.com/807a.jpg
>
> > Needs a little cleaning up.  Note the careful placement of the grid coil
> > at right angles to the final and with the Masonite panel between for
> > good shielding.
>
> ERK! - looks like a 6146 PA, rather than an 807. And, congrats at the
```

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> cutter?) BUT theres too much loose wiring providing stray coupling
> paths - AND you do need to use a metal chassis, even if only to
> separate the input/output circuitry. A piece of light gauge aluminium
> sandwiched(sp?) on top of your present chassis would do it.....easy to
> work with simple tools, no bends.....or do what the old timers did,
> go to the supermarket, buy a sheetmetal baking tray from the Homewares
> section)
>
> BTW - while your there, buy one of those cheap white plastic kitchen
> cutting boards - easy to work, a lovely source of insulating material
> for standoffs, insulators etc...
>
> And whats with the 3 big wire wound resistors? - screen supply to the
> PA - what a potential source of stray coupling. A 1 watt resistor is
> usually sufficient, you wont need the string of 10 watt ones....
> (especially sitting under the lead from the anode of your PA stage..)
> And the anode tuning is about 100 yards from the tube! - can you get
> it any closer?
>
> So saying all that, general rule of RF stability is to bypass
> EVERYTHING, including any existing bypass circuitry. (This is why a
> metal chassis is so good...no long leads on bypass caps)In this HF
> cct, a handful of 0.1 or even 0.01 caps would be a good try....wack
> em everywhere. Go buy heaps, they will be most useful for other stuff
> as well. 630V polyester/polystyrene are easily and commonly and
> cheaply available...
>
> And keep going - its worth the effort -
>
> Andrew VK3BFA.- Hide quoted text -
>
> - Show quoted text -

From 7943490208483054110
X-Google-Thread: fc2a5,9f54a1735a4d7d8b
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04a.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews3.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6146 amp
References: <464669b3$0$9904$4c368faf@roadrunner.com>
In-Reply-To: <464669b3$0$9904$4c368faf@roadrunner.com>

X-Enigmail-Version: 0.94.0.0
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Lines: 29
Message-ID: <eEn5i.11156$923.1724@bignews3.bellsouth.net>
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X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcboehgopljenepfciddhebakmlfngoclfebon
laiecbpjfjnpnnejbfjmeddhmbclgdlnnfkjjhhkkconjhkpcfckhaicjhniomggmpilneogppkimn
NNTP-Posting-Date: Thu, 24 May 2007 17:41:30 EDT
Organization: BellSouth Internet Group
Date: Thu, 24 May 2007 17:41:41 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:13311

Jimmie D wrote:
> I am trying to modify a 1 tube amp for 6 meters using a 6146. I think the
> amp was origionally used for CB though it does tune up on 10 meters. It
> worked OK before I removed the input circuit and put in one for 6M. The
> problem is I cant neutralize the damn thing. It makes a great osc.I was
> thinking of scraping the tuned input and replacing it with a 200 ohm
> resistor and a 4:1UNUN. I figure this low of an impedance on the grid would
> swamp out any feedback that might me causing it to osc. I have about 5 watts
> PEP of drive.
>
> Jimmie
>
>

Transmitter in the 1967 ARRL HB used a 6146 in gk on 6m.
The input circuit was 9 turns of #20 spacewound 5/8" dia.
It was center tapped, with the center tap connected to a 7uh
rf choke, other end of the choke was grounded to bias supply
(or 22k 1w resistor for grid leak bias, class C). One end of the
coil goes to the grid of the 6146. The other end of the coil is
connected to ground via a 30pf tuning cap, and also to a probe wire
that serves as one 'plate' of the neutralizing capacitor (the plate
of the tube is the other capacitor plate). This probe wire is simply
moved near the tube till adjustment of the plate tuning capacitor does
not vary the grid current, this indicates the tube is neutralized.

The three cathode connections of the tube are connected together at the
socket by a "Y" shaped piece of copper, this is then grounded at a
single point.

From 7047962470403811937
X-Google-Thread: fc2a5,ca0b3341ff3c2b60,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail

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NNTP-Posting-Date: Thu, 24 May 2007 17:07:17 -0500
Date: Thu, 24 May 2007 22:07:17 +0000
From: Scott <acepilot@bloomer.net>
Reply-To:  acepilot@bloomerdotnet
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Wanted:  Dead Band Module TM-742A
Content-Type: text/plain; charset=us-ascii; format=flowed
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hu8+hDzK4A==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13312

Looking for a dead band module (any one OK...28, 50, 144, 220, 440 or
1200).  All I really need is the case...guts not needed (except the
connectors, etc. that interface with the "mainframe").  Send me an email
with what you have and what you want for it.  Low bidder gets the job!  ;)

--
Scott N0EDV
http://corbenflyer.tripod.com/
Gotta Fly or Gonna Die
Building RV-4 (Super Slow Build Version)



From -409150630963290163
X-Google-Thread: fc2a5,a5a0d93f28aad106,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!h2g2000hsg.googlegroups.com!not-for-
mail
From: brisa <brisasuave30@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: THE UNION MAKES THE FORCE
Date: 24 May 2007 20:38:16 -0700
Organization: http://groups.google.com
Lines: 267
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NNTP-Posting-Date: Fri, 25 May 2007 03:38:25 +0000 (UTC)
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FunWebProducts; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h2g2000hsg.googlegroups.com; posting-host=201.240.214.40;
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Xref: g2news1.google.com rec.radio.amateur.homebrew:13313
```

THESE TIRED TO WORK HARD AND TO HAVE SINGLE MONEY TO PAY ACCOUNTS OR SOMETIMES NOR FOR THAT? THE MONEY IS FOR ALL AND A HARD WORK DESERVES AN EXCELLENT ONE IT PAYS! I OFFER YOU TO BE PART OF THIS AID IN COMMON, BECAUSE THE UNION MAKES THE FORCE, PROVES THE FORCE OF SOLIDARITY BY INTERNET, AYUDATE AND AID TO THE OTHERS PLEASE BEFORE ELIMINATING THIS WARNING, WOULD BE THANKFUL THAT LEA FIRST AND IT MAKES THE DECISION LATER. THIS IS NOT A SWINDLE, IS NOT ILLEGAL, IS NOT NECESSARY TO ABSOLUTELY SELL NOTHING, IS FOR SLUGGISH IS FOR PEOPLE WHO NEED AID AND WANT TO HELP THE OTHERS. MAKES SAFE MONEY LEGALLY, FAST AND VIA INTERNET! MAKES SAFE MONEY LEGALLY, FAST AND VIA INTERNET! (Suggestion: It prints this one article so that it reads it with thoroughness and thus it can include/understand it better and follow his form step by step of application.) HELLO TO ALL. - You need a car, to pay to the initial of your house or department, to pay education of your children, you need very deserved vacations, to lamentably begin a saving or any thing for your family but your pay only reaches to pay the accounts sometimes and nor after that. If you identify yourself with previous, the welcome thing to the club, if in addition you are conscientious that stops to win money is necessary to work always honestly, then east business is for you. It says thus: ORIGINAL MESSAGE While it sailed by these pages of the news, also like you it is doing it now, appeared to me an article similar to this that it said: You can gain thousands of dollars in few weeks with an investment of U.S. $6 dollars (six dollars). Immediately I thought: " OH, no! , another swindle more? ", but like majority of us, the curiosity could more, and I continued reading, and it continued saying: "You will send U.S. $ 1,00 (a dollar) to each one of the 6 names and directions mentioned in this article, later You will write down your name and direction at the end of the list having replaced to I number # 6, and it will at least send or put east article in 200 NEWS GROUPS (there are million of these anywhere in the world). " Note: If one is in another country, must exchange his national a dollars, because in all the countries they change dollars and is easier for all. For that reason we will make this business only with dollars and not complicaremos us. Any trick, the difference from this system to others does not exist, is that you have a list of 6 instead of 5, this means that your average of gain he will be After thinking it time and time again and to consult it with friends, I decided to prove it, I thought that the only thing that it could lose era the value of 6 stamps and U.S. $6 dollars and that it would take it like an investment, truth! I thought that to invest 6 dollars plus the costs of shipment by mail they were a compared triviality with which I give in my work by a pay which I am thankful but that it is not sufficient nor just. As probably many of us were a little worried about the legality about all this. Then it consults to the Central Mail and they confirmed to me that in fact he was totally legal. I remained astonished and I invested to my U.S. $6 dollars immediately... IMAGINENSE THAT! ... the few days later, I began to receive MONEY by mail! Was happy, like boy with new toy, and very surprised! And it thought that this would finish more in few days and tries to forget to me the subject, in any case already had recovered the investment, but the money continued arriving. In my first week I made between U.S. $20 dollars and $30 dollars. For the end of the second week it had made a total of U.S. $1,000 (thousand dollars)! PODIA NOT TO BELIEVE it! ; in the third week U.S. $10,000 (ten thousand dollars) and still continued arriving more! ; in my fourth week had a total of U.S. $41,000 dollars and this continues arriving more quickly (in my house, they go it opening you exceed and I obtaining "NEWSGROUP". THIS WAS PUT SERIOUS. All this was worth the trouble, the investment of U.S. $6 dollars and 6 stamps, gave its fruits, and to think that I spent more of U.S. $6 dollars weekly in drawings and lottery, and did not pass anything. The truth is that this can pass as long as works conscientiously and placing this warning in the greater possible amount of newsgroup, this works simple, while more people see it, more money I win, but even so I assure to you that you will win much more that putting 6 dollars in the best bank of on credit fixed world of 1 year. You will be receiving money worldwide, of places that nor know and in few days! Possibly he will want to rent a PO. BOX. By the amount of you exceed that it will be receiving. ASEGURESE OF WHICH ALL CORRECT DIRECTIONS ESTEN. Now So that of all this (IT IS WHAT IS GOING IT TO LIKE): Of 200 publications of this one letter in different newsgroup, we say that single receipt 5 replaced (IT IS NECESSARY TO BE PESSIMISTIC). Then I made US$5 Dollars with my name in the position #6, of this letter. Now each one of the people who sent the dollar, also makes a number of 200 publications of this one letter in different newsgroup and single 5 people to each one of the 5 original ones respond, this makes U.S. $25 more than I receive (up to here already I recovered my investment more and), now these 25 people put a minimum of 200 publications of this one letter in different newsgroup with my name in #4 place, and single 5 replaced of each one are received. It would be making other U.S. $125 additional, now these 125 people put a minimum of 200 publications of this letter in different newsgroup with my name in #3 place and single one receives 5 answers each, I I receive an additional one of U.S. $625, OK, Here this the part but amused, each one of these 625 people place puts their letters with other 200 publications of this one letter in different newsgroup with my name in #2 and each one receives only 5 answers. This causes that I receive U=2ES. $3.125. However these 3,125 people sent their letter and in addition they published this one letter in 200 different newsgroup, with my name in #1 place, and only 5 people respond of the 200 newsgroup, this does that I receive U.S. $15,625 dollars. Of an investment of U.S. $6. - dollars, do not think that he is FABULOUS and as I before said, that single 5 people respond of 200 newsgroup, (the real average is of 20 to 30 people) . IF THEY WANT THEY REMOVE CALCULATIONS! IF SINGLE 15 PEOPLE RESPOND .... THIS WOULD BE EQUAL A: In the position #6 =3DUS $ 15,00. - In the position #5=3DUS $ 225,00. - In the position #4=3DUS $ 3,375, 00. - In the position #3 =3DUS $ 50,625, 00 - In position #2=3DUS $ 759,375, 00. - ((((Now the good thing comes, not scare. - In the position #1 .... (((((U.S. $ 11.390.625, 00))))) ... if, ELEVEN MILLION DOLLARS or EUROS! This is the power of the multiplication of the capital to which all we have right! As I said, this can happen but it is necessary to work intelligently and each one of us must fulfill putting this warning not in 200 but in 400 newsgroup, to send post office to everybody, to make marketing, etc. and all gratuitous means of the powerful Internet virtual, in the end your work will give fruits because you worked with effort, honesty and transparency. Once its name no longer is in the list, removes the last announcement from the newsgroup and sends other U.S. $6 dollars to the names in that list, putting its name in the place # 6 and soon will return to repeat all the process, and to begin to put them in the newsgroup again, which must remember is that million people like You and like I anywhere in the world, they are connected to Internet daily and therefore some will read these articles, so I believe that nobody will have problems to invest to U.S. $6 dollars, and to see if this really works. Some people get to think...."and if nobody responds" ..... to me as it is the possibility that this happens? , if there are thousands and thousands of honest people (who, as we) they look for a way to have financial independence and to pay accounts! , and they are arranged to treat, because "THERE IS no WORSE FIGHT THAN, THE ONE THAT NOT FOR! ", esteem that are 20,000 to 50,000 new users of INTERNET Every day, (in all world). ** REMEMBERS, HAGALO IN HONEST, CLEAN FORM AND CORRECTLY, THUS IT WILL WORK WITH COMPLETE CERTAINTY. By the way: if you it defrauds to the people, putting messages with his name and it does not send any money to the others in those lists, you you will not receive ANYTHING almost! SO THAT ALL THIS HAPPENS? BECAUSE IT IS NOT HARVESTED WHAT NOT SOWING. REMEMBER, HAGALO IN HONEST, CLEAN FORM AND CORRECTLY, of way so that it wins money and does not squander the time, if it does, will receive money of all the people who enter this business will obtain positive results, at heart these money are turning around the world, and the people that will thank for it, are the pluses needed anywhere in the world (I do not say of extreme poverty), but people, who by those things of the life are in jams and this them aid to come out ahead. "A THING IS SAFE TO THAT YOU SEND TO HIM ON WITH 1 DOLLAR, BY COMMITMENT VERY SURELY IT WILL PUBLISH TO YOU IN HIS NEXT LISTS IN THE NEWGROUPS AND BY CONSEQUENCE YOU WILL RECEIVE MORE MONEY "... MUST FOLLOW THE RULES OF THE BUSINESS, OR BUT IT WILL SEE ITSELF VERY AFFECTED BY PEOPLE INESCRUPULOSAS, LUCK FOR ALL! You aseg=FArese to print this article NOW, to remove all the information as she needs it. The process is very easy and consists of 3 (three) simple steps

STEP N=BA 1: Obtain 6 sheets of paper and you write in each one of them "PLEASE INCLUDES MY NAME IN HIS LIST OF CORRESPONDENCE Or e MAIL" or "PLEASE ADD MY NAME TO YOUR LIST". Soon, its name also writes, direction and (OPTIONAL: electronic mail or email). And if it wants as a pretty detail also places in which POSITION appeared each name of the people of its List when You sent your DOLLAR (Ej.: "He was in the 3 position" or" You were in slot 3 ") like making it more complete. That one is, to make money and to pass it well at the same time, everything with good will. Now it doubles this one page where the previous thing has written, around a bill of 1 dollar American, it does not send to checks nor another type of payments, single American Dollars. P=F3ngalo everything within 1 on and m=E1ndelo to each one of the 6 listed people, the idea to double the paper around the dollar is for assuring that it is going to arrive at his destiny and THAT IS IMPORTANT. Of another way the people who work in the mail could detect that she is money and to remain with the THOUSANDS of YOU EXCEED that they are to him arriving; so that she recommends herself to surround everything, additionally, in a dark paper or of coal so that she does not see herself through on. What this doing is to create a service and like so, does COMPLETELY LEGAL. From now on this not sending a EURO or DOLLAR to him to some person without any reason, this paying to a EURO or DOLLAR by a legitimate service (I assure to Him, again, that this is completely legal). Immediately afterwards, it sends the 6 you exceed to following directions:

1=2E Guillermo Jimenez Ramos Urb. Villas de Feliza 154 Calle Lucy
Boscana
Mayaguez, Puerto Rico 00680-7301
 2. Mirta Weise. Calle: Eustaquio Fr=EDas 4361(Ingeniero Pablo Nogu=E9s)
C=F3digo Postal:1613 Buenos Aires Argentina
3=2E Jaime Cruz Ravelo Calle 69 Sur No. 102C-24 Bq 6 Apto 307 Ciudadela
La Libertad II Etapa Bogota D.C. (Colombia)
4=2E Edgar Fernando Gerardo Moreno. Calle Tarento 116 Entre Roma y
N=E1poles Cluster 12 Col. Hacienda Santa F=E9 C.P. 45655, Tlajomulco de
Zu=F1iga, Jalisco (Mexico)
5=2E Ursula Maria Mora Devoto. Calle Manuel Quiroz 180 Dpto. 208
Santiago
de Surco, Lima (Per=FA)
6=2E Olga Vargas Egusquiza. Calle Leon Velarde 115 Urb. Los Libertadores
San Martin de Porres, Lima (Peru)

VERIFY OF WHICH ALL THE DIRECTIONS ARE CORRECT. STEP N=BA 2: Now it eliminates I number #1 of list of above and moves the other names a number upwards (#6 becomes #5, and # 5 it turns #4, etc...) and it adds his NAME AND ITS DIRECTION like #6 of the list. STEP N=BA 3: Change everything what creates advisable of this one article, but deal with to maintain it the closest possible thing to the original one. Now it puts his article in at least 200 NEWSGROUP (exists more than 24.000.000 newsgroup), single need 200, but the more it puts, the more money him it will arrive. STEP N=BA 4: THIS STEP IS OPTIONAL: You also can send this article to other well-known people or strangers, relatives or friends through electronic mails or e-mails; for which such You will have to make steps previous and in addition to add its email to the correspondence direction and simply to send this article by email or sticking it like message of text or like attached file. Important: Remember to select, to copy and to stick solely the article or letter of format HTML of the message! NOTE: "OF COURSE, NEWSGROUP CAN SEE THOUSANDS IT or UNTIL MILLION OF PEOPLE WHEREAS an ELECTRONIC MAIL SEES IT THAT or WHO THEY RECEIVE IT ". Here some indications of how introducing itself go to newsgroup: THIS IS IMPORTANT THE MAS PART OF THE BUSINESS OF PLACING THE WARNING WITH TU NAME NOT IN 200, BUT I PROPOSE TO YOU TO PUT IT IN 400 NEWGROUPS OF AS AT LEAST HALF IN EXTRAJEROS. HOW TO HANDLE the "NEWGROUPS in simple steps. N=BA 1. - You do not need to write up all this letter to do hers own. He only puts his cursor in the beginning of this letter, clicks and he leaves it pressed and b=E1jelo until the end of the letter and larguelo. All the letter will have to be "shaded". Then, note and clicks in "Edit" or "edition" it arrives of his screen, selects here "to copy" or (Ctrl +C). This will cause that all the letter is in the temporary memory of its computer. N=BA 2. - Notepad" or "Word" Opens to a new file "and takes the cursor it arrives of the page in target, Presses "edit" and of the menu it selects "paste" or "to beat" or (Ctrl+V). Now it will have this letter in his computer and will be able to add its name in the place #6 of the list following the instructions of above. N=BA 3. - This letter in its new file of notepad like "txt Records Case out " or "text file", and whenever it wants to change something, it will be able to do without problems. BEFORE PUBLISHING THIS ARTICLE IN ANY NEWSGROUP, IT REMEMBERS THAT ALL THE WEBSITES HAVE DIFFERENT INSTRUCTIONS TO PUBLISH ARTICLE IN ITS NEWS either GROUPS or NEWSGROUP the BEST thing IS THAN THEY FOLLOW INSTRUCTIONS OF HOW MAKING IT NEXT VERAN SOME SUGGESTIONS; THESE CAN VARY ACCORDING TO THE VERSIONS OF PROGRAMS, WEBSITES, ETC. FOR WHICH USES INTERNET EXPLORER. IF NO IT KNOWS MUCH OF FORUMS, IT CAN USE THE GOOGLE TO LOOK FOR NEWSGROUP AND BEGINS TO LOOK FOR WHERE TO PLACE ITS WARNING. N=BA 4. - Go to newsgroup and you select "post an article" or "to write new message/discussion " in some newsgroup first is selected specific group and later loads the article in publishing new message. N=BA 5. - The complete content of txt Marks. case out and you copy using same previous technique. Return to newsgroup "TO NEWS" and "IT STICKS IT" there you this creating and filling with paste this letter within its program or "posting" Presses the button "post" FOR WHICH THEY HANDLE NETSCAPE. Within the Netscape program, it goes to the titled window "Window" and select " NetscapeNews ". Then it chooses of the menu "Options", select "to Show all Newsgroup" Immediately will appear a list of all the newsgroup of their server, click in any newsgroup. Of this newsgroup it clicks underneath "TO NEWS", which would have to be it arrives, in the left end of the newsgroup page This him it took to the box of messages. N=BA 6=2E - Fill east space. This it will be the title that will see all when cross by the list of a group in individual for example puts WINS SAFE, FAST AND LEGAL MONEY SINGLE 6 DOLLARS OF INVESTMENT. Mark complete content of txt cases out and copies using the same technique previous. Return to newsgroup "TO NEWS" and you this creating and filling with paste or sticking this one letter within its program or "posting" N=BA 7=2E - Press "send", that this in the left superior part and you have finalized with its first newsgroup. .... CONGRATULATIONS! Everything what must do is to put in different Newsgroup (groups) and to publish this one letter or article; when it already has practice, single will take about 30 seconds him by each newsgroup. One it forms to find NEWSGROUP, it is through the finders and Servants of the News. REMEMBER: WHILE MAS NEWSGROUP OBTAINS, MAS MONEY ANSWERS WILL RECEIVE! BUT IT MUST ENTER AT LEAST... 200 NEWSGROUP. AND ALREADY THIS! Single a note more, if it knows to translate this message to other languages (it can make it with the Tool Language of Word or by Internet), can in addition, to insert them in forums of different countries like, the USA, England, France, Germany, Russia, Brazil, (this I say it like advice to expand the possibilities that he sees much but people it), imagines that their mail sees it in China.

NEWS FINDERS
http://www.dejanews.com
http://www.supernews.com http://tile.net/news/ http://www.ii.com/internet/m=
essaging/newsgroups/

LISTING OF HISPANIC NEWS
http://www.foromania.com
http://www.mundolatino.org/usenet.htm http://www.google.com.co/grphp?hl=3De=
s&tab=3Dwg&q=3D

```
From 1791535096261739529
X-Google-Thread: fc2a5,69115af0de411881
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-
sjc-01!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self Osc Problem
Date: Thu, 24 May 2007 22:31:42 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <135cplip463voa8@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <1357jv4id3bka8a@corp.supernews.com>
<1179899716.035321.137600@u30g2000hsc.googlegroups.com>
<1358g2fhsn5710d@corp.supernews.com>
<1180012637.056712.283780@q69g2000hsb.googlegroups.com>
In-Reply-To: <1180012637.056712.283780@q69g2000hsb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 54
Xref: g2news1.google.com rec.radio.amateur.homebrew:13314
```

Andrew VK3BFA wrote:

>>Needs a little cleaning up. Note the careful placement of the grid coil
>>at right angles to the final and with the Masonite panel between for
>>good shielding.

> ERK! - looks like a 6146 PA, rather than an 807. And, congrats at the
> attempt

I thought the "Masonite shielding" would suffice for a smiley.

That was my first attempt at a wooden chassis and it became obvious why metal is better and I abandoned it a few weeks ago.

It started out xtal controlled but then I got the bug to add a VFO which is the crap on the left. The 807 turned into an 866 so I substituted the 6146 till I got another 807. The missing meter was a hamfest special that bounced so much it was useless and then crapped out completely.

It is now all neatly mounted on a home made aluminum chassis and unfortunately looks a lot better than it works.

I will take a for real pic tomorrow. That one was just too good not to share.

> And whats with the 3 big wire wound resistors? - screen supply to the
> PA - what a potential source of stray coupling. A 1 watt resistor is
> usually sufficient, you wont need the string of 10 watt ones....

One of the plans I was working for called for 25W. Seems like a misprint because it does not even get warm. The 10K in the VR150 leg gets hotter than hell and probably should be 25W. I burned my finger just checking it.

>And the anode tuning is about 100 yards from the tube! - can you get it any closer?

If you look closely, you can see the 807 socket between the 6146 and the cap. The 6146 is where the other 6ag7 is supposed to be.

> And keep going - its worth the effort -

It's been a challenge. I made a simpler version of this as a kid and am sort of re-living my childhood. It's like a Mr Wizzard Science project for me.

I am now plagued with real test equipment and can't play "ignorance is bliss".

js

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

```
From 64940980386433682
X-Google-Thread: fc2a5,69115af0de411881
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
a35g2000prd.googlegroups.com!not-for-mail
```

From: Andrew VK3BFA <ablight@alphalink.com.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Self Osc Problem
Date: 25 May 2007 06:22:01 -0700
Organization: http://groups.google.com
Lines: 87
Message-ID: <1180099320.995657.204340@a35g2000prd.googlegroups.com>
References: <1357jv4id3bka8a@corp.supernews.com>
   <1179899716.035321.137600@u30g2000hsc.googlegroups.com>
   <1358g2fhsn5710d@corp.supernews.com>
   <1180012637.056712.283780@q69g2000hsb.googlegroups.com>
   <135cplip463voa8@corp.supernews.com>
NNTP-Posting-Host: 218.215.143.50
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180099336 15323 127.0.0.1 (25 May 2007 13:22:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 25 May 2007 13:22:16 +0000 (UTC)
In-Reply-To: <135cplip463voa8@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.3) Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a35g2000prd.googlegroups.com; posting-host=218.215.143.50;
   posting-account=EWANPAwAAAAIMf8u_DoGHaMCx0gCEW5D
Xref: g2news1.google.com rec.radio.amateur.homebrew:13315

On May 25, 2:31 pm, Jack Schmidling <a...@mc.net> wrote:
>
> I thought the "Masonite shielding" would suffice for a smiley.

It did - I just didn't want to spend the next 3 weeks figuring out how to put one in.....(bloody computers)

And thanks for the explanation - I didn't see the 807 socket, and didn't know there was a VR150(was it?) in there as well. And the extraneous tuning stuff to the left, well, now I know its for a VFO. (Gee, voltage regulation - thats getting fancy - yes, the dropper resistors do run stinking hot, don't they....)

Strangely enough, theres a fault in human design in that the nerve endings that detect heat are a lot bloody slower than everything else - by the time we figure out its too hot, the damage is done....

And must admit to wallowing in nostalgia - mine attempts were similar, and probably oscillated all over the place as well - BUT without virtually any test gear, (or knowledge) it didn't seem to matter - there was no one to complain anyway, the bands were virtually empty except for other manic experimenters, TV was black and white, and broadcast was AM. Nothing else to get into - and the bands were harmonically related so we we're QRM other hams anyway....2m was the outer frontier anyway, there was NOTHING used above that....

How about a photo of the latest metal attempt? - remember, if it looks nice and neat, it doesn't really matter if it don't work too good....

I have things here I am not game to connect to the spectrum analyser - don't want my dreams shattered toooo quickly....
but getting back, more and more, into the older stuff - partly fading eyesight (I cant see u-mini smd ic's) and besides, theres something comforting about the warm glow of valves in a dark room, the crash of static from the other side of the world, the thrill of hearing someone on air from an exotic National Geographic land...the reasons we got into amateur radio in the first place..

The bands here at the moment are a total write off everywhere - 80m is S9 noise, the rest not much better. QRM, QRN wall to wall. So, I sit here and type on a keyboard, I guess its still "hamming" after a fashion...

>
> That was my first attempt at a wooden chassis and it became obvious why
> metal is better and I abandoned it a few weeks ago.

Yep. Tubes with gain killed wooden chassis.....

>
> It started out xtal controlled but then I got the bug to add a VFO which
> is the crap on the left. The 807 turned into an 866 so I substituted
> the 6146 till I got another 807. The missing meter was a hamfest
> special that bounced so much it was useless and then crapped out completely.

Hah! - silly man - NOW you have to get the VFO stable, as well as all the other problems. And as for 807's - I think about 90% of the people reading this will have some sitting around, just waiting for the "magic moment" of inspiration. Good On Ya Jack - your doing it - good luck!

And the magics still there, even after 30 plus years of experimenting........cant be killed by the internet, store bought gear, mobile phones - all those glittering toys that didn't even exist exist when we started out.....

And I got boxes of hamfest meters that are probably crappy too - haven't tried to use them yet, so don't know. Finally built myself a rough tube tester a few weeks ago (I had to, trying to find working tubes for a VERY elderly Yaesu FTDX400)

>
> It's been a challenge. I made a simpler version of this as a kid and am
> sort of re-living my childhood. It's like a Mr Wizzard Science project
> for me.
>
> I am now plagued with real test equipment and can't play "ignorance is
> bliss".
>

Yep. Its a real PITA that - we cant delude ourselves our home brew QRM generators are not what they are.....still, its an excuse to use some time creatively.......

73 de VK3BFA Andrew.

```
From -2762471909824268708
X-Google-Thread: fc2a5,e90c36775793dd05,start
X-Google-Attributes: gidfc2a5,public,usenet
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p47g2000hsd.googlegroups.com!not-for-
mail
From: "Gian, I7SWX" <i7swx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: AD9912 SFDR measurements
Date: 25 May 2007 07:18:34 -0700
Organization: http://groups.google.com
Lines: 27
Message-ID: <1180102714.162363.193270@p47g2000hsd.googlegroups.com>
NNTP-Posting-Host: 82.49.21.232
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1180102714 24060 127.0.0.1 (25 May 2007 14:18:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 25 May 2007 14:18:34 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; HbTools 4.8.4),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p47g2000hsd.googlegroups.com; posting-host=82.49.21.232;
   posting-account=UdnmUQ0AAABqWSw2iezMYLt5SVbNOulx
Xref: g2news1.google.com rec.radio.amateur.homebrew:13316
```

Hi all,

following my message inserted on may 24th : "Better to use AD9912 and not AD9910", I have received several enquiries about any test done on the AD9912.

Yes, my good friend Giuliano, I0CG (of AD9951 DDS fame), is performing measurements on the AD9912 and also comparisons with his already well known and appreciated DDS using AD9951 and a 500MHz clock.

I have uploaded a document in:
http://groups.yahoo.com/group/emrfd/files/
http://www.hamsdr.com/dnld.aspx
http://groups.yahoo.com/group/softrock40/files/

with title: "AD9912 SFDR tests.pdf "

The document reports some Spectrum analyzer measurements on the AD9912 and also one comparison with AD9951.

When I0CG will release further reports I will divulgate them.

73

Gian
I7SWX

```
From 8112061936218055427
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news.astraweb.com!
router1.astraweb.com!not-for-mail
Date: Mon, 07 May 2007 10:48:41 -0600
From: "Doug, W7KF" <null@localhost>
User-Agent: Thunderbird 1.5.0.8 (X11/20061204)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: where to buy some chassis?
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
In-Reply-To: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 21
Message-ID: <463f58d0$0$23418$c3e8da3@news.astraweb.com>
Organization: Unlimited download news at news.astraweb.com
NNTP-Posting-Host: 3385dade.news.astraweb.com
X-Trace: DXC=_aHMmo60;k8aTZ9_0GJc??L?
0kYOcDh@:BK2jREKf`g:5ma;nf@L[01]dXBG9d0XE<neJ@ER0nCH8gFFnXZ`V`_3l@gV8R1F;l<
Xref: g2news1.google.com rec.radio.amateur.homebrew:13215
```

Ross, NS7F wrote:
> I would like to build some tube transmitters and am curious where other people get their chassis?

That "Novice Special" is a good article. Reminds me of my first transmitter, a 6C4 driving a 2E26. Got me a special, commemorative QSL from the FCC. Apparently, I was 599 on 7446!

You are in luck! LMB is still around and still makes that very cabinet:
   http://www.lmbheeger.com/products.asp?catid=18

I also like Mouser. Order something from them and you'll get catalogs for a long time. Lots of parts..
   http://www.mouser.com/

Also, MPJA has interesting items from time to time.
   http://www.mpja.com/

73, OM.
--
Doug, W7KF

```
From 3198642670929008685
X-Google-Thread: 108122,b71e70f3d9d56946
X-Google-Thread: fc2a5,b71e70f3d9d56946
X-Google-Thread: 115730,b71e70f3d9d56946
X-Google-Thread: 1131b0,b71e70f3d9d56946
X-Google-Attributes: gid108122,gidfc2a5,gid115730,gid1131b0,public
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Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 07 May 2007 15:21:57 -0500
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,sci.electronics.equipment,s
ci.electronics.repair
References: <xNmdncePwa23UKbbnZ2dnUVZ_sudnZ2d@comcast.com>
<JYSdnWAxpJISU6DbnZ2dnUVZ_vumnZ2d@comcast.com>
<4_CdnVVlSOB0maPbnZ2dnUVZ_gmdnZ2d@comcast.com> <qq6dnZcNo-
Uk8aPbnZ2dnUVZ_sninZ2d@comcast.com>
Subject: Re: MFJ-259B coils
Date: Mon, 7 May 2007 16:21:57 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <DKednYFg5L_4F6LbnZ2dnUVZ_qOpnZ2d@comcast.com>
Lines: 59
NNTP-Posting-Host: 71.199.254.204
X-Trace: sv3-XyO7DDcsAA4g5vvZtf8cjAY6qQTiQ/ML11r/THwZRUHD0wvPU1wMIzWnN3r/
+UIuoVw2vRZBWLmTHZV!MOUR8bwwODKdwVwUQFaZpg6OhrIkz/WVh5BKE8O340BsrCDBsvdbYDdn9w/
dPXdhuPkxq7ZqJ7G2!Q5dkuS/r+SFzsHoI334g11PRATNiyUM=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.equipment:11982
rec.radio.amateur.homebrew:13216 sci.electronics.equipment:8443
sci.electronics.repair:65913
```

"Dave" <W1MCE@comcast.net> wrote in message
news:qq6dnZcNo-Uk8aPbnZ2dnUVZ_sninZ2d@comcast.com...

> DaveM wrote:

>
>> "Dave" <W1MCE@comcast.net> wrote in message
>> news:JYSdnWAxpJISU6DbnZ2dnUVZ_vumnZ2d@comcast.com...
>>
>>>What coils?
>>>
>>>My MFJ-259B has all the guts inside!!!
>>>
>>>
>>>
>>>DaveM wrote:
>>>
>>>
>>>>Anybody happen to have the details of the dipper coils for the MFJ-259B
>>>>Antenna Analyzer? Mine have become lost in a garage/workshop cleanout that
>>>>went awry.
>>>>
>>>>Need number of turns, coil diameter, coil length if possible. Think I can
>>>>remember the rest of the details well enough to rebuild them.
>>>>
>>>>Thanks for your help
>>>
>>
>> Yep!!! My MFJ-259B has lots of guts too.
>> The dipper coils are used to make the Analyzer operate like a grid dip meter.
>> Extremely useful for tuning traps, tanks, etc.   They are an accessory to the
>> Analyzer; I think the part number for them is MFJ-66.
>> There are two coils in the set, one for 1.8 MHz to 50 MHz, the other covers
>> 20 MHz to 170 MHz.
>>
>> Cheers!
>
> Wow! I learned something today. Even old farts can learn something new.
>
> BTW: my grid dipper is a real grid dipper ... AN/PRM-10. Anybody remember that
> old boatanchor?
>

Yeppers!!!   I surely do remember the PRM-10. Almost bought one at a hamfest a few years ago, but it looked like it had been through just about every battle in WWII, Vietnam and Desert Storm.

They were good instruments; I used them while I was in the Navy as an ET during the 60s. I found them to be quite useful while overhauling old comm equipment while I was aboard the USS Vulcan (AR-5) during that period. Got a tremendous amount of experience on that ship.

Cheers!!!!
--
Dave M
MasonDG44 at comcast dot net (Just substitute the appropriate characters in the address)

Life is like a roll of toilet paper; the closer to the end, the faster it goes.

From -5148202238980651601
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
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X-Trace-PostClient-IP: 68.144.232.117
From: Irv Finkleman <finkirv@shaw.ca>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: where to buy some chassis?
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
In-Reply-To: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 17
Message-ID: <wbM%h.165745$6m4.104846@pd7urf1no>
Date: Mon, 07 May 2007 20:43:08 GMT
NNTP-Posting-Host: 64.59.135.176
X-Complaints-To: abuse@shaw.ca
X-Trace: pd7urf1no 1178570588 64.59.135.176 (Mon, 07 May 2007 14:43:08 MDT)
NNTP-Posting-Date: Mon, 07 May 2007 14:43:08 MDT
Organization: Shaw Residential Internet
Xref: g2news1.google.com rec.radio.amateur.homebrew:13217

Ross, NS7F wrote:

> I would like to build some tube transmitters and am curious where
> other people get their chassis? Article 1 (The Novice Special, from
> the arrl website) calls for LMB SQ-1 cabinet (8.5 x 4.5 x 4.5 in)
> which "comes complete with chassis and front panel".
> Article 2 (A Three-Band One-Tube Novice Transmitter, from Dec '57 QST)
> calls for a 2 x 7 x 13 in aluminum chassis enclosed in a 7 x 9 x 15 in
> aluminum box.
> Any suggestions?
> Thanks and 73,
> Ross, NS7F
>

How about a sheet metal shop? I used to get mind made
for the price of a case of beer.

Irv VE6BP

From 1936045923837615615
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y5g2000hsa.googlegroups.com!not-for-mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: where to buy some chassis?
Date: 7 May 2007 15:46:23 -0700
Organization: http://groups.google.com
Lines: 48
Message-ID: <1178577983.099138.156910@y5g2000hsa.googlegroups.com>
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
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X-Trace: posting.google.com 1178577984 8440 127.0.0.1 (7 May 2007 22:46:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 7 May 2007 22:46:24 +0000 (UTC)
In-Reply-To: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
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X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-ntc-tb10.proxy.aol.com[CFC870AF] (Prism/1.2.0), HTTP/1.1 cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: y5g2000hsa.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com rec.radio.amateur.homebrew:13218

On May 6, 4:36?pm, "Ross, NS7F" <rjtu...@gmail.com> wrote:

> I would like to build some tube transmitters and am curious where
> other people get their chassis? Article 1 (The Novice Special, from
> the arrl website) calls for LMB SQ-1 cabinet (8.5 x 4.5 x 4.5 in)
> which "comes complete with chassis and front panel".
> Article 2 (A Three-Band One-Tube Novice Transmitter, from Dec '57 QST)
> calls for a 2 x 7 x 13 in aluminum chassis enclosed in a 7 x 9 x 15 in
> aluminum box.
> Any suggestions?
> Thanks and 73,
> Ross, NS7F

If you've been around electronics a while, you might remember the "SeeZak" line of modular chassis sides and tops. LMB-Heeger carries that same thing now: www.lmbheeger.com

Click on "OmniChassis" on their Products link page.

Chassis sides (sold in pairs) come in 2", 3", or 4" height with lengths from [height] to 17" in increments of one inch. The material is aluminum, 0.040" think. Chassis tops and bottoms come in all dimensions from 4" x 4" to 17" x 17". Top/bottoms are fastened to side pieces with small sheet metal screws (holes provided) at one-inch increments. Side piece ends snap together, final fastening by the screws through top/bottom panels to the bent-over edges of side pieces.

Top/bottom panels thicknesses are 0.040", 0.050", or 0.063" depending on their overall dimensions (13" x 13" and bigger are 0.063" thick). One can use the smaller-length side pieces to form in-chassis walls for shielding or extra mechanical support. An advantage in hole drilling of tops/bottoms is that panels can be mounted on scrap plywood for support (such as in drill press) or punched via industrial punch presses (hard to find those presses now).

Not cheap but they don't cost an arm and a leg either. Another advantage is that making a mistake on hole locations isn't a scrap-out of a whole chassis or klugey retrofit...just use another panel or side piece. While the aluminum alloy is "softer" than 2024, an assembly is as robust mechanically as any fully-formed chassis bought as a unit. I find them very useful in making near-production quality prototypes since they turn out as neat as any full-chassis version.

73, Len AF6AY

From -3960007624347888125
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 07 May 2007 20:22:35 -0500
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
Subject: Re: where to buy some chassis?
Date: Mon, 7 May 2007 20:22:24 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <x9ednUYbMaZGTaLbnZ2dnUVZ_rOqnZ2d@comcast.com>
Lines: 36
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VNpYdlc3+tXr0Y!
AQ0yZmObblbTPCchTeU2z+S2cqAE5Jkv8u45btoxPzJ3rdPT6w0bs2jPgRS+yt56akBkon7QMLbW!

nkNi1iLsUVi1fJXwgScaRNSRMnix
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13219

LMB Heeger is still in business.

.. and they still make the SQ-1

http://www.lmbheeger.com/products.asp?catid=18

LMB/Heeger, Inc.
6446 Flotilla St.
Commerce, CA 90040-1712
(323) 728-5108 Phone
(323) 728-4729 Phone
(323) 728-6913 Phone
(323) 728-4740 Fax

sales@lmbheeger.com

Office Hours
7:30 AM - 4:00 PM
Monday - Friday
Pacific Standard Time

"Ross, NS7F" <rjtucke@gmail.com> wrote in message
news:1178498215.118317.189610@e65g2000hsc.googlegroups.com...
>I would like to build some tube transmitters and am curious where
> other people get their chassis? Article 1 (The Novice Special, from
> the arrl website) calls for LMB SQ-1 cabinet (8.5 x 4.5 x 4.5 in)
> which "comes complete with chassis and front panel".
> Article 2 (A Three-Band One-Tube Novice Transmitter, from Dec '57 QST)
> calls for a 2 x 7 x 13 in aluminum chassis enclosed in a 7 x 9 x 15 in
> aluminum box.
> Any suggestions?
> Thanks and 73,
> Ross, NS7F
>

From -9158690009909192964
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l77g2000hsb.googlegroups.com!not-for-mail

From: RapidRonnie <rapidronnie@cbgb.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: where to buy some chassis?
Date: 7 May 2007 20:33:15 -0700
Organization: http://groups.google.com
Lines: 15
Message-ID: <1178595195.532386.140200@l77g2000hsb.googlegroups.com>
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
NNTP-Posting-Host: 68.91.249.124
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1178595195 22505 127.0.0.1 (8 May 2007 03:33:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 8 May 2007 03:33:15 +0000 (UTC)
In-Reply-To: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
User-Agent: G2/1.0
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rv:1.8.1.3) Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l77g2000hsb.googlegroups.com; posting-host=68.91.249.124;
   posting-account=wWvGdA0AAAASe5efRkJlBuA3AevOYcFH
Xref: g2news1.google.com rec.radio.amateur.homebrew:13220

On May 6, 7:36 pm, "Ross, NS7F" <rjtu...@gmail.com> wrote:
> I would like to build some tube transmitters and am curious where
> other people get their chassis? Article 1 (The Novice Special, from
> the arrl website) calls for LMB SQ-1 cabinet (8.5 x 4.5 x 4.5 in)
> which "comes complete with chassis and front panel".
> Article 2 (A Three-Band One-Tube Novice Transmitter, from Dec '57 QST)
> calls for a 2 x 7 x 13 in aluminum chassis enclosed in a 7 x 9 x 15 in
> aluminum box.
> Any suggestions?
> Thanks and 73,
> Ross, NS7F

Yes, buy or build a small sheet metal brake, or use one at a air
conditioning place or airport.

From 2516293989220843186
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: where to buy some chassis?
Date: Mon, 07 May 2007 22:43:50 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.05.08.05.43.49.21206@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>

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<pan.2007.05.07.07.45.38.275798@localhost.localdomain>
<1178541635.609492.105400@q75g2000hsh.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 24
Organization: Octanews
NNTP-Posting-Date: 08 May 2007 00:43:52 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13221

Hi Tim,

> My local sources charge about $5 per sq ft for 0.040" 5052-H14
> aluminum.
>
> A 17x10x3 chassis needs about 3 square feet.

Bobs around between $2.75 and $3.15 CAD where I live in a trucking/farming
community. No shortage of full-sheet capable aluminium shops. Got 5 within
a 20 minute drive.


> That's $15 for materials, not counting wastage because the local
> source only sells it in 4x8 feet sheets :-). I compare that to $25 for
> a Hammond chassis of the same size already made and spot welded, and I
> don't see as big (5:1 or 7:1) of a disparity in prices as you do.

$25 for a 17x10x3 Hammond? You must be in the US. They are $45 here.

So, from my POV, buying retail chassis is just silly.

Cheers,

Gregg


From 2862633169516223894
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o5g2000hsb.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: where to buy some chassis?
Date: 8 May 2007 03:25:32 -0700
Organization: http://groups.google.com
Lines: 21
Message-ID: <1178619932.579418.288100@o5g2000hsb.googlegroups.com>
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
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NNTP-Posting-Date: Tue, 8 May 2007 10:25:35 +0000 (UTC)
In-Reply-To: <pan.2007.05.08.05.43.49.21206@localhost.localdomain>
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20030225,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o5g2000hsb.googlegroups.com; posting-host=63.73.218.131;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com rec.radio.amateur.homebrew:13222

geek wrote:
> Hi Tim,
>
> > My local sources charge about $5 per sq ft for 0.040" 5052-H14
> > aluminum.
> >
> > A 17x10x3 chassis needs about 3 square feet.
>
> Bobs around between $2.75 and $3.15 CAD where I live in a trucking/farming
> community. No shortage of full-sheet capable aluminium shops. Got 5 within
> a 20 minute drive.

Ahah! The great land of ALCAN.

> $25 for a 17x10x3 Hammond? You must be in the US. They are $45 here.

Strange thing is, Hammond is a Canadian company! I lived in Canada for
two years myself and could not explain the economics either.

Tim.




From 226249083630366486
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 08 May 2007 14:28:11 -0500
From: "John Doe" <hgorden@adelphia.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
<1178595195.532386.140200@l77g2000hsb.googlegroups.com>
Subject: Re: where to buy some chassis?
Date: Tue, 8 May 2007 15:28:29 -0400
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
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X-RFC2646: Format=Flowed; Original
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vcdrJv/l7mFcc/t2oRgyYeFCr1kmLvo=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13223

Try CHARLES BYERS k3iwk@flash.net

He makes chassis of all sizes.
73's Howard W3CQH
===========
"RapidRonnie" <rapidronnie@cbgb.net> wrote in message
news:1178595195.532386.140200@l77g2000hsb.googlegroups.com...
> On May 6, 7:36 pm, "Ross, NS7F" <rjtu...@gmail.com> wrote:
>> I would like to build some tube transmitters and am curious where other
>> people get their chassis?

<SNIP>




From 7423252052650052350
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n59g2000hsh.googlegroups.com!not-for-
mail
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: where to buy some chassis?
Date: 8 May 2007 13:00:42 -0700
Organization: http://groups.google.com
Lines: 27
Message-ID: <1178654442.939633.254390@n59g2000hsh.googlegroups.com>
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
NNTP-Posting-Host: 72.0.177.83
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
```

X-Trace: posting.google.com 1178654443 18547 127.0.0.1 (8 May 2007 20:00:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 8 May 2007 20:00:43 +0000 (UTC)
In-Reply-To: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.3)
Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n59g2000hsh.googlegroups.com; posting-host=72.0.177.83;
   posting-account=GgVUuwwAAADBZnuydJvXVehACQusOfAe
Xref: g2news1.google.com rec.radio.amateur.homebrew:13224

On May 6, 5:36 pm, "Ross, NS7F" <rjtu...@gmail.com> wrote:
> I would like to build some tube transmitters and am curious where
> other people get their chassis? Article 1 (The Novice Special, from
> the arrl website) calls for LMB SQ-1 cabinet (8.5 x 4.5 x 4.5 in)
> which "comes complete with chassis and front panel".
> Article 2 (A Three-Band One-Tube Novice Transmitter, from Dec '57 QST)
> calls for a 2 x 7 x 13 in aluminum chassis enclosed in a 7 x 9 x 15 in
> aluminum box.
> Any suggestions?
> Thanks and 73,
> Ross, NS7F

Well, Ross.
The dates of the articles are about the time I got my novice license. Back then we could go to a sheet metal shop and tell them the size of the chassis (box to them!) and they would cut it and fold it and spot weld it. This was using galvanized sheet steel. I supposed aluminum sheet was available, but cost more. I am sure you could go to a similar sheet metal shop or heating/cooling shop and have them make a box for you.

Another possibility is to watch Ebay for something that will work for you. Although that might take a while.

Good luck.
Paul, KD7HB

From -6148551013392434070
X-Google-Thread: fc2a5,c2086f2741caaca9,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!newsfeed.stueberl.de!
peernews3.colt.net!colt.net!feeder.news-service.com!138.199.65.86.MISMATCH!sn-xt-
ams-06!sn-xt-ams-03!sn-ams!sn-feed-ams-03!sn-post-ams-02!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@Yahoo.Com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Roller inductor question
Date: Tue, 8 May 2007 21:50:06 -0700

```
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1342ko16kkk3v9e@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 17
Xref: g2news1.google.com rec.radio.amateur.homebrew:13225
```

I've been thinking of getting some roller inductors to play with next time I visit a hamfest, and it occurred to me that a generic roller inductor doesn't have a linear change in inductance with roller position... does it? E.g., at the half-way point you should get 1/4 the total inductance, right?

Or is the form wound such that the turns are closer together at one end than nothing, thereby linearizing the inductace vs. roller position to some degree?

Thanks,
---Joel Kolstad

P.S. -- They never made small (say, size of an old Kodak film canister)-sized roller inductors meant for QRP work, did they? Most seem to be sized for hundreds if not thousands of watts.

```
From 6022307038157830480
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: where to buy some chassis?
Date: Tue, 08 May 2007 21:54:40 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.05.09.04.54.39.210845@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
<pan.2007.05.07.07.45.38.275798@localhost.localdomain>
<1178541635.609492.105400@q75g2000hsh.googlegroups.com>
<pan.2007.05.08.05.43.49.21206@localhost.localdomain>
<1178619932.579418.288100@o5g2000hsb.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 20
Organization: Octanews
NNTP-Posting-Date: 08 May 2007 23:54:44 CDT
```

X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13226

Hi Tim,

> Strange thing is, Hammond is a Canadian company! I lived in Canada for
> two years myself and could not explain the economics either.
>
> Tim.

Our economics are like our politics - inexplicably stupid *rolls eyes*

It's cheaper for me to buy and import Hammond from Parts Express than it is to buy from a dealer an hour away. Dumbfounds me too.

What IS a super deal are Chinese made rack mount cabs w/panel from RP Electronics in Burnaby, BC.... thicker aluminium than the Hammond and $57 compared to ~$180 for the Hammond. I kicked one around (literally), quality is comparable.

Cheers!

Gregg

From 1363162433921652189
X-Google-Thread: fc2a5,c2086f2741caaca9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Roller inductor question
Date: Tue, 08 May 2007 22:33:07 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.05.09.05.33.06.339950@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <1342ko16kkk3v9e@corp.supernews.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 26
Organization: Octanews
NNTP-Posting-Date: 09 May 2007 00:33:11 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13227

Hi Joel,

On Tue, 08 May 2007 21:50:06 -0700, Joel Kolstad wrote:

> I've been thinking of getting some roller inductors to play with next
> time I visit a hamfest, and it occurred to me that a generic roller

> inductor doesn't have a linear change in inductance with roller
> position... does it? E.g., at the half-way point you should get 1/4 the
> total inductance, right?

Right, unless it's wound linear inductance. Those can be found as surplus
from test equipment. The ones found surplus in receiver's are usually
linear frequency, rather than linear inductance. They are visibly quite
different.

> P.S. -- They never made small (say, size of an old Kodak film
> canister)-sized roller inductors meant for QRP work, did they? Most
> seem to be sized for hundreds if not thousands of watts.

They exist. I could barely give a dual one away on Ebay last year. Dual
QRP roller too! Finally someone grabbed it for $5.

Cheers,

Gregg

From -8144314687603799698
X-Google-Thread: fcc6e,8fb2d65983ec943,start
X-Google-Thread: 11480d,8fb2d65983ec943,start
X-Google-Thread: fc2a5,8fb2d65983ec943,start
X-Google-Attributes: gidfcc6e,gid11480d,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!news.tele.dk!news.tele.dk!
small.news.tele.dk!newsfeed1.swip.net!swipnet!newsfeed.pacific.net.au!
token.pipenetworks.com!218.100.2.59.MISMATCH!not-for-mail
From: "Mac" <vk2evb@hotmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.homebrew
Subject: High School Radio Club looking for IRLP School contacts in Asia
Date: Wed, 9 May 2007 20:18:56 +1000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <4641a00a$1_9@news.peopletelecom.com.au>
X-Original-NNTP-Posting-Host: news.people.net.au
Lines: 24
NNTP-Posting-Host: 202.154.92.95
X-Trace: 1178705956 un-2park-reader-01.sydney.pipenetworks.com.au 4611
202.154.92.95:50856
X-Complaints-To: Abuse, including message IDs to abuse@pipenetworks.com
Xref: g2news1.google.com rec.radio.amateur.antenna:40976 rec.radio.amateur.dx:3501
rec.radio.amateur.homebrew:13228

Hi There,

The Bishop Druit College Radio Club
http://www.qsl.net/mm0axl/mncarg/bdc.html
situated at Coffs Harbour NSW Australia
is hoping to make IRLP contacts on Fridays
0315 - 0345 UTC. (Lunchbreak)

Perhaps areas with similar time zones in Asia,
like Malaysia, Hongkong, Vietnam, China,
Japan, Korea, and parts of Russia are of
interest to the students.

Contacts will be on IRLP node 6625.

Contacts with similar school electronic/radio
groups are of special interest.

If interested please email:
Gary VK2ZKT gryan@bdc.nsw.edu.au
or
Peter VK2EVB vk2evb@wia.org.au

From 6376794034691501214
X-Google-Thread: fc2a5,c2086f2741caaca9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 09 May 2007 06:50:25 -0500
From: "jack" <jdwalton@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1342ko16kkk3v9e@corp.supernews.com>
<pan.2007.05.09.05.33.06.339950@localhost.localdomain>
Subject: Re: Roller inductor question
Date: Wed, 9 May 2007 07:54:35 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Message-ID: <b7qdnc6keqccKNzbnZ2dnUVZ_oavnZ2d@comcast.com>
Lines: 4
NNTP-Posting-Host: 69.249.69.72
X-Trace: sv3-
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7GuiS9Fd+rGzsF1NmcFAmNOyKa/eIVZqR1KxmO5D28yysTHGGvT6W2WtXZTEz+Z42XtbsN2TpDUm!
wVNEq6av6rlLSCySCAIKze84TC1L
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint

properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13229

It would be a shame to do this now -- but I used the roller inductor from a BC-375 for a transmitter I made about 40 years ago.

From 8268089607311557048
X-Google-Thread: fc2a5,c2086f2741caaca9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 09 May 2007 11:51:25 -0500
From: Joe McElvenney <ximac@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Roller inductor question
Date: Wed, 09 May 2007 17:51:25 +0100
Message-ID: <0rs34317mljm1sf2qraql95qn46hgp40qp@4ax.com>
References: <1342ko16kkk3v9e@corp.supernews.com>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 16
X-Trace: sv3-tA2bcRIPjdJM0L8d7iQoY5Nr6+uYcEzxOACy7C2qIRq3gqHuxxAmP7l4zie1+yTq/ijdLgjUO8v6rXk!EuSOdvgf0FNnIXSwxxvYZhlirwAu/HZddml9kHSYmhdCqNbH//Hvgnw0Z+0ktAWR55VMGTE=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13230

Hi,

>I've been thinking of getting some roller inductors to play with next time I
>visit a hamfest, and it occurred to me that a generic roller inductor
>doesn't have a linear change in inductance with roller position... does it?
>E.g., at the half-way point you should get 1/4 the total inductance, right?

With a roller inductor the ratio of length to diameter is not constant as the tapping point changes so the inductance is not simply proportional to N^2. Using the standard handbook formula (Nagaoka's), I get the inductance at the centre to be just under half (44%) of that across the whole coil. Doubtless though, toward the end, this formula becomes rather inaccurate.

Cheers - Joe G3LLV

From 6724567151486558934
X-Google-Thread: fc2a5,c2086f2741caaca9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o5g2000hsb.googlegroups.com!not-for-mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Roller inductor question
Date: 9 May 2007 11:19:17 -0700
Organization: http://groups.google.com
Lines: 26
Message-ID: <1178734757.296871.235400@o5g2000hsb.googlegroups.com>
References: <1342ko16kkk3v9e@corp.supernews.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1178734765 8846 127.0.0.1 (9 May 2007 18:19:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 9 May 2007 18:19:25 +0000 (UTC)
In-Reply-To: <1342ko16kkk3v9e@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-ntc-tc08.proxy.aol.com[CFC87128] (Prism/1.2.0), HTTP/1.1 cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: o5g2000hsb.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com rec.radio.amateur.homebrew:13231

On May 8, 8:50?pm, "Joel Kolstad" <JKolstad71HatesS...@Yahoo.Com>
wrote:
> I've been thinking of getting some roller inductors to play with next time I
> visit a hamfest, and it occurred to me that a generic roller inductor
> doesn't have a linear change in inductance with roller position... does it?
> E.g., at the half-way point you should get 1/4 the total inductance, right?
>
> Or is the form wound such that the turns are closer together at one end than
> nothing, thereby linearizing the inductace vs. roller position to some
> degree?

In general, a linearly-wound inductor will follow the cylindrical
inductor equations. There might be some changes from that
from the influence of the "left-over" (unconnected) windings,
including fringing capacitance to ground.

In the few cases of linear-frequency-tuning, notably in Collins PTO units and the "rack" assemblies in the R-390 family, the windings were deliberately spaced to handle the powdered-iron core position effect on inductance. I suspect that Collins did a lot of cut-and-try to achieve the correct spacing changes on those; very little quantitative information on it is available in text or on the web. :-)

73, Len AF6AY

```
From 4529473877632504380
X-Google-Thread: fc2a5,46f8075b57bf98c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w5g2000hsg.googlegroups.com!not-for-mail
From: "John Miles, KE5FX" <jmiles@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to make DDS AD9854 output Phase-Coherent ?
Date: 9 May 2007 11:22:31 -0700
Organization: http://groups.google.com
Lines: 22
Message-ID: <1178734951.833257.31720@w5g2000hsg.googlegroups.com>
References: <1176395319.725833.144850@y5g2000hsa.googlegroups.com>
NNTP-Posting-Host: 216.254.19.39
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1178734957 13300 127.0.0.1 (9 May 2007 18:22:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 9 May 2007 18:22:37 +0000 (UTC)
In-Reply-To: <1176395319.725833.144850@y5g2000hsa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.8.1.3) Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: w5g2000hsg.googlegroups.com; posting-host=216.254.19.39;
   posting-account=SsbzKA0AAAC23y_ioOR1N5xHOoa-hUZY
Xref: g2news1.google.com rec.radio.amateur.homebrew:13232
```

On Apr 12, 9:28 am, mfarrukhas...@gmail.com wrote:

> Dear all,
>
> I am new to DDS AD9854 and was wondering if you can help me with a
> specific problem not
> directly solvable.
>
> My main aim is to generate a simple chirp signal which should be Phase-
> Coherent. The standard output is Phase-Continuous. Does anyone have
> any suggestions how to do it ?
>
> Many Thanks.

I'm not sure I understand the difference. I'd think you'd want a chirp to be phase-continuous, because that means that the waveform doesn't experience any abrupt discontinuities as its frequency is modified. What exactly does "phase coherence" refer to (if not the ability to maintain a fixed phase relationship between two or more different sources)?

-- john, KE5FX

From -4889452909252358829
X-Google-Thread: 112d1e,2156f606def53628,start
X-Google-Thread: fc2a5,2156f606def53628,start
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!h2g2000hsg.googlegroups.com!not-for-mail
From: "John Miles, KE5FX" <jmiles@gmail.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: WTD: EAGLE library model for GALI-series MMIC package
Date: 9 May 2007 11:33:27 -0700
Organization: http://groups.google.com
Lines: 13
Message-ID: <1178735607.300375.106700@h2g2000hsg.googlegroups.com>
NNTP-Posting-Host: 216.254.19.39
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1178735615 15117 127.0.0.1 (9 May 2007 18:33:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 9 May 2007 18:33:35 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.8.1.3) Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h2g2000hsg.googlegroups.com; posting-host=216.254.19.39;
   posting-account=SsbzKA0AAAC23y_ioOR1N5xHOoa-hUZY
Xref: g2news1.google.com sci.electronics.design:247921 rec.radio.amateur.homebrew:13233

Subject says it all.. has anyone created a PCB footprint in EAGLE for the Mini-Circuits GALI MMICs or any other parts that use the same package style? This is the DF782 case style (http://www.minicircuits.com/case_styles/DF782.pdf), PCB layout http://www.minicircuits.com/pcb/98-pl019.pdf .

If someone is willing to share a library file that includes this footprint, I'd appreciate a copy. The minicircuits.lbr file at www.cadsoft.de doesn't include it.

Tnx! -- john, KE5FX
jmiles (at) pop (dot) net

```
From 6808386019069024785
X-Google-Thread: fc2a5,dca62e6e6bb8308a,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!3c71b782!not-for-mail
From: robert casey <wa2ise@ix.netcom.com>
User-Agent: Mozilla/5.0 (Windows; U; Win 9x 4.90; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Tropo DX on east coast! low VHF, 6m likely hot
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 3
Message-ID: <ftr0i.13644$3P3.7385@newsread3.news.pas.earthlink.net>
Date: Wed, 09 May 2007 21:57:31 GMT
NNTP-Posting-Host: 4.250.168.180
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1178747851 4.250.168.180 (Wed, 09 May
2007 14:57:31 PDT)
NNTP-Posting-Date: Wed, 09 May 2007 14:57:31 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13234
```

Fire up your 6m rigs, I see lots of tropo on low VHF of TV. I am
receiving a channel 3 WEDU Tampa Florida here in NJ just outside of NYC.
   Also seeing interference on NYC's channels 2 and 4. 21:50 zulu May 9.

```
From -9138470861522542795
X-Google-Thread: fc2a5,dca62e6e6bb8308a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Tropo DX on east coast! low VHF, 6m likely hot
Date: Thu, 10 May 2007 00:32:32 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.05.10.07.32.32.303554@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <ftr0i.13644$3P3.7385@newsread3.news.pas.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 13
Organization: Octanews
```

```
NNTP-Posting-Date: 10 May 2007 02:32:37 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13235

On Wed, 09 May 2007 21:57:31 +0000, robert casey wrote:

> Fire up your 6m rigs, I see lots of tropo on low VHF of TV.  I am
> receiving a channel 3 WEDU Tampa Florida here in NJ just outside of NYC.
>    Also seeing interference on NYC's channels 2 and 4.  21:50 zulu May 9.

VHF DX seems hot. I've been logging FM broadcast stations from Michigan
down to Missouri from near Vancouver, BC off and on since February!

Cheers,

Gregg




From 3530639020923425747
X-Google-Thread: 112d1e,2156f606def53628
X-Google-Thread: fc2a5,2156f606def53628
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w5g2000hsg.googlegroups.com!not-for-
mail
From: Leon <leon355@btinternet.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: WTD: EAGLE library model for GALI-series MMIC package
Date: 10 May 2007 10:22:16 -0700
Organization: http://groups.google.com
Lines: 19
Message-ID: <1178817736.886848.91600@w5g2000hsg.googlegroups.com>
References: <1178735607.300375.106700@h2g2000hsg.googlegroups.com>
NNTP-Posting-Host: 86.137.154.139
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1178817743 6593 127.0.0.1 (10 May 2007 17:22:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 10 May 2007 17:22:23 +0000 (UTC)
In-Reply-To: <1178735607.300375.106700@h2g2000hsg.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; YPC
3.2.0),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: w5g2000hsg.googlegroups.com; posting-host=86.137.154.139;
   posting-account=i87wsQwAAADknRAl4wMphajbPFwpuMZQ
Xref: g2news1.google.com sci.electronics.design:248293
rec.radio.amateur.homebrew:13236

On 9 May, 19:33, "John Miles, KE5FX" <jmi...@gmail.com> wrote:
> Subject says it all.. has anyone created a PCB footprint in EAGLE for
> the Mini-Circuits GALI MMICs or any other parts that use the same
> package style?  This is the DF782 case style (http://www.minicircuits.com/
case_styles/DF782.pdf), PCB layouthttp://www.minicircuits.com/pcb/98-pl019.pdf.
>
> If someone is willing to share a library file that includes this
> footprint, I'd appreciate a copy.  The minicircuits.lbr file atwww.cadsoft.de
> doesn't include it.
>
> Tnx! -- john, KE5FX
> jmiles (at) pop (dot) net


Why not make your own, it only takes a few minutes with the software I
use.

Leon





From -1376259138550320509
X-Google-Thread: fc2a5,c2086f2741caaca9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p77g2000hsh.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Roller inductor question
Date: 11 May 2007 05:51:54 -0700
Organization: http://groups.google.com
Lines: 30
Message-ID: <1178887914.742620.126920@p77g2000hsh.googlegroups.com>
References: <1342ko16kkk3v9e@corp.supernews.com>
   <1178734757.296871.235400@o5g2000hsb.googlegroups.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1178887915 930 127.0.0.1 (11 May 2007 12:51:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 11 May 2007 12:51:55 +0000 (UTC)
In-Reply-To: <1178734757.296871.235400@o5g2000hsb.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p77g2000hsh.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com rec.radio.amateur.homebrew:13237

On May 9, 2:19 pm, AF6AY <LenAnder...@ieee.org> wrote:
> In the few cases of linear-frequency-tuning, notably in Collins
> PTO units and the "rack" assemblies in the R-390 family, the
> windings were deliberately spaced to handle the powdered-
```

> iron core position effect on inductance. I suspect that Collins
> did a lot of cut-and-try to achieve the correct spacing changes
> on those; very little quantitative information on it is available
> in text or on the web. :-)

Note that the RF section slugs do not follow a linear-with-frequency position; the while the shafts move linearly with frequency, the cams introduce a necessary nonlinearity in the slug's linear position that is necessary in the overall design.

And to get back to the OP's case of antenna tuners/pi matching networks etc. it is not necessarily desirable to have the tuner's (or pi-network's) inductances and capacitances vary linearly with knob position. You actually want the curve of knob position vs value to be logarithmic (look at the Hammarlund and Millen and National ads from the 40's through the 60's to see all the various nonlinear variable capacitor curves that are desirable in various uses) to make tuning less critical on the high bands and more useful on the low bands.

Folks who grew up with pocket calculators and digital multimeters might assume that everything should be linear. Those of us who learned with slide rules know that in the real world, logarithmic is more useful!

Tim.

```
From 1561698467876827432
X-Google-Thread: fc2a5,c2086f2741caaca9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!p77g2000hsh.googlegroups.com!not-for-
mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Roller inductor question
Date: 11 May 2007 11:41:21 -0700
Organization: http://groups.google.com
Lines: 79
Message-ID: <1178908881.517964.23760@p77g2000hsh.googlegroups.com>
References: <1342ko16kkk3v9e@corp.supernews.com>
   <1178734757.296871.235400@o5g2000hsb.googlegroups.com>
   <1178887914.742620.126920@p77g2000hsh.googlegroups.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1178908881 26776 127.0.0.1 (11 May 2007 18:41:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 11 May 2007 18:41:21 +0000 (UTC)
In-Reply-To: <1178887914.742620.126920@p77g2000hsh.googlegroups.com>
User-Agent: G2/1.0
```

X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-ntc-tb01.proxy.aol.com[CFC87082] (Prism/1.2.0), HTTP/1.1 cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: p77g2000hsh.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com rec.radio.amateur.homebrew:13238

On May 11, 4:51=EF=BF=BDam, Tim Shoppa <sho...@trailing-edge.com> wrote:
> On May 9, 2:19 pm, AF6AY <LenAnder...@ieee.org> wrote:
>
> > In the few cases of linear-frequency-tuning, notably in Collins
> > PTO units and the "rack" assemblies in the R-390 family, the
> > windings were deliberately spaced to handle the powdered-
> > iron core position effect on inductance. =A0I suspect that Collins
> > did a lot of cut-and-try to achieve the correct spacing changes
> > on those; very little quantitative information on it is available
> > in text or on the web. =A0:-)
>
> Note that the RF section slugs do not follow a linear-with-frequency
> position; the while the shafts move linearly with frequency, the cams
> introduce a necessary nonlinearity in the slug's linear position that
> is necessary in the overall design.

I was referring specifically to the "PTO" (Permeability Tuned
Oscillator) that first saw wide use in Collins radios. That
tuning *IS* linear in frequency versus knob position. If you've
ever opened one to examine it, you will understand. Most of
the Collins PTOs also had a minor correction mechanism for
that tuning but, in essence, the winding pitch of the tuning
inductor varied according to some internal Collins manufacturing
rule.

I've also had my hands on many an R-391 and understand that
mighty mechanical monster still - even though it was four decades
ago - and would say that trying to find a correct winding pitch for
all those (broadband relative to tuning rate) inductors would have
made the production cost way too high. It wouldn't be
important because the actual Q of those variable inductors made
the front-end resonators broad enough so that "crude" cam
adjustments were okay for practical purposes.

> And to get back to the OP's case of antenna tuners/pi matching
> networks etc. it is not necessarily desirable to have the tuner's (or
> pi-network's) inductances and capacitances vary linearly with knob
> position. You actually want the curve of knob position vs value to be
> logarithmic (look at the Hammarlund and Millen and National ads from
> the 40's through the 60's to see all the various nonlinear variable
> capacitor curves that are desirable in various uses) to make tuning
> less critical on the high bands and more useful on the low bands.

I began actually handling of lots of high-power HF transmitters in the early 1950s, notably the ones made by the Lewyt Vacuum Cleaner Company! :-)   No real relationship of capacitance or inductance curves to tuning...wayyyy too many variables involved in antennas-lines-etc. to pin down any "necessary curves."

> Folks who grew up with pocket calculators and digital multimeters
> might assume that everything should be linear. Those of us who learned
> with slide rules know that in the real world, logarithmic is more
> useful!

High disagreement there. Having learned and owned a slide rule in high school of the late 1940s (and understood logs and elementary transcendentals), I switched to sceientific calculators (forever, I think) as soon as they were on the market, never looked back. I severely dislike non-linear tuning as it has NO physical-sensor-body correlation with signal bandwidths or carrier positions.

I see Joel's roller inductor question connected with my experience with Press-Wireless 15 KW transmitters and their dual copper tubing final amplifier inductors. QSYs on those PW-15s required unwrenching the shorting links then rearranging the shorting links, remounting them, again with a wrench. Having helped make better sets of shorting links and doing some intial tuning (to set preset tables for number of links), the unshorted links were generally in the inductance values predictable by old-style equations of inductors. There was some effect of the shorted turns which was arrived at during the preset tune-up tests. Those were feeding rhombics directly and there were no fancy tuning-matching circuits involved in the typical 4 to 18 MHz RF region.

73, Len AF6AY

From 5328201268331685985
X-Google-Thread: fc2a5,c2086f2741caaca9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y80g2000hsf.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Roller inductor question
Date: 11 May 2007 12:56:31 -0700
Organization: http://groups.google.com
Lines: 17
Message-ID: <1178913391.034583.154620@y80g2000hsf.googlegroups.com>
References: <1342ko16kkk3v9e@corp.supernews.com>
NNTP-Posting-Host: 192.25.240.225

```
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1178913391 12670 127.0.0.1 (11 May 2007 19:56:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 11 May 2007 19:56:31 +0000 (UTC)
In-Reply-To: <1342ko16kkk3v9e@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.11)
Gecko/20070312 Firefox/1.5.0.11,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y80g2000hsf.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news1.google.com rec.radio.amateur.homebrew:13239
```

On May 8, 9:50 pm, "Joel Kolstad" <JKolstad71HatesS...@Yahoo.Com>
wrote:
...

> P.S. -- They never made small (say, size of an old Kodak film
> canister)-sized roller inductors meant for QRP work, did they? Most seem to
> be sized for hundreds if not thousands of watts.

An automatic tuner I worked on a long time ago had motor-driven variable inductors only slightly larger than that. I guess it handled about 200 watts. The design wasn't roller, but slider; it tuned very fast for a mechanical system. There were one or two motor-driven vacuum variables in there too.

Cheers,
Tom

```
From 1767909645785646660
X-Google-Thread: fc2a5,46f90ff97fcaa966,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y80g2000hsf.googlegroups.com!not-for-
mail
From: matty@mindless.com
Newsgroups: rec.radio.amateur.homebrew
Subject: YOU WON'T BELIEVE THIS, IT'S CRAZY BUT IT WORKS
Date: 11 May 2007 15:16:34 -0700
Organization: http://groups.google.com
Lines: 130
Message-ID: <1178921794.392950.114170@y80g2000hsf.googlegroups.com>
NNTP-Posting-Host: 208.126.33.39
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1178921794 3399 127.0.0.1 (11 May 2007 22:16:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 11 May 2007 22:16:34 +0000 (UTC)
User-Agent: G2/1.0
```

X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y80g2000hsf.googlegroups.com; posting-host=208.126.33.39;
   posting-account=TE9Puw0AAAC5UPlK_oDuzgghgpCSxL09
Xref: g2news1.google.com rec.radio.amateur.homebrew:13240

THIS REALLY CAN MAKE YOU EASY MONEY! IT WORKS!
BUT YOU HAVE TO FOLLOW IT CAREFULLY FOR IT TO WORK!
A little while back, I was looking on the web for easy ways to make money and I kept thinking that all of the ways I was reading would never work and were just scams, but not this one! The article that I had found said that I could make thousands of dollars easily in a matter of weeks with only an initial small payment of $6.00. I thought, "Yeah, right, this must be a scam like most of the rest", but like most of us, I was curious, so I kept reading. Anyway, it said that if I sent $1.00 to each of the 6 names and addresses listed at the bottom of the article that I would make great money but only if I followed the following steps. After sending the $1.00 to each person you were then instructed to rewrite the list by taking the 1st person off of the list then moving the 2nd person to the 1st spot, and the 3rd person to the 2nd spot, etc, etc. Finally you should be left with the number 6 spot empty and this is where you place your name and address. After reconfiguring the list you then must post it on about 200 newsgroups (doesn't matter but the more places you post the more money you make!). There are thousands and thousands of newsgroups from around the world so this task is easy and that was it when I was done! No catch. So after thinking it over, I thought about trying it. I figured, what have I got to lose except 6 stamps and $6.00, right? Like most of us I was a little skeptical because it seemed so easy and I was a little worried about the legal aspects of it all. So I checked it out with the U.S. Post Office (1-800-725-2161) and they confirmed that it is indeed legal! (U.S. Postal and Lottery Laws Title 18, Section 1302 and 1341 and Code of Federal Regulations, Volume 16, Sections 255 and 436) After reviewing the pros and cons of the investment I decided to carry out with it. I invested the measly $6.00 and guess what? Within 7 days, I started getting money in the mail!! I was very shocked! I figured it would end soon, but the money just kept coming in. In my first week, I made about $25.00. By the end of the second week I had made a total of over $1,000.00! In the third week I had over $6,000.00 and it's still growing. This is now my fourth week and I have made a total of just over $21,000.00 and it's still coming in rapidly. It's certainly worth $6.00, and 6 stamps. Now let me explain to you how this works and most importantly, why it works. Also, make sure you print a copy of this article NOW, so you can get the information off of it as you need it.

STEP 1: Get 6 separate pieces of paper and write the following on
each piece of paper "PLEASE PUT ME ON YOUR MAILING LIST." Now get 6
US
$1.00 bills and place ONE inside EACH of the 6 pieces of paper so the
bill will not be seen through the envelope to prevent thievery.
Next,
place one paper in each of the 6 envelopes and seal them. You should
now have 6 sealed envelopes, each with a piece of paper stating the
above phrase (PLEASE PUT ME ON YOUR MAILING LIST), your name and
address, and a $1.00 bill. What you are doing with this letter is
creating a service. THIS IS ABSOLUTELY LEGAL!
Now mail the 6 envelopes to the following addresses:

1. LORRAINE HUTCHINSON (P.O. BOX 23951 LONDON ENGLAND E12 5YP)
2. GEAN SAPP (1768 OLD HICKORY STREET, DECATUR, GA 30032)
3. TAMEKA HILL (P.O. BOX 188 JAMESVILLE, NC 27846)
4. DAN BELL (1519 CAMERON LANDING DRIVE, STOCKBRIDGE, GA 30281)
5. ERIC PORAT (2345 EAST 64 STREET, BROOKLYN, NY 11234)
6. MATT SANTIAMAGRO (1120 SUNSET AVE, KELLEY, IA 50134)

STEP 2: After you have mailed out your letters creating a service and
making this legal, take the #1 name off the list that you see above,
move the other names up (6 becomes 5, 5 becomes 4, etc...) and add
YOUR NAME & ADDRESS as number 6 on the list.

STEP 3: Change anything you need to in this article, but try to keep
this article as close to original as possible. Now, post your
amended
article to at least 200 newsgroups. (I believe there are close to
24,000 groups in USA alone). All you need is 200, but remember, the
more you post- the more money you make!

DIRECTIONS --HOW TO POST TO NEWSGROUPS

Step a) You do not need to re-type this entire letter to do your own
posting. Simply put your cursor at the beginning of this letter and
drag your cursor to the bottom of this document, and select 'copy'
from the edit menu. This will copy the entire letter into the
computers memory.

Step b) Open a blank "notepad" file under accessories in windows and
place your cursor at the top of the blank page. From the 'edit' menu
select 'paste'. This will paste a copy of the letter into notepad so
that you can add your name to the list.

Step c) Save your new notepad file as a .txt file. If you want to do
your postings in different sittings, you'll always have this file to
go back to.

Step d) Use the Internet to search for various newsgroups (on-line
forums, message boards, chat sites, discussions.)

Step e) Visit these message boards and post this article as a new
message by highlighting the text of this letter and selecting paste
from the edit menu. Fill in the Subject, this will be the header
that
everyone sees as they scroll through the list of postings in a
particular group, click the post message button. After you have
completed these steps you are done with your first posting.
Congratulations! You are that much closer to easy money! THAT'S IT!
All you have to do is jump to different newsgroups and post away,
after you get the hang of it, it will take about 30 seconds for each

newsgroup! That's it! You will begin receiving money from around the world within days! You may eventually want to rent a P.O.Box due to the large amount of mail you will receive. If you wish to stay anonymous, you can invent a name to use, as long as the postman will deliver it. *JUST MAKE SURE ALL THE ADDRESSES ARE CORRECT AND REMEMBER, THE MORE NEWSGROUPS YOU POST IN, THE MORE MONEY YOU WILL MAKE!! BUT YOU HAVE TO POST A MINIMUM OF 200*

WHY it works: Out of 200 postings, say I receive only 5 replies (a very low example). So then I made $5.00 with my name at #6 on the letter. Now, each of the 5 persons who just sent me $1.00 make the MINIMUM 200 postings, each with my name at #5 and only 5 persons respond to each of the original 5, that is another $25.00 for me, now those 25 each make 200 MINIMUM posts with my name at #4 and only 5 replies each, I will bring in an additional $125.00! Now, those 125 persons turn around and post the MINIMUM 200 with my name at #3 and only receive 5 replies each, I will make an additional $626.00! OK, now here is the fun part, each of those 625 persons post a MINIMUM 200 letters with my name at #2 and they each only receive 5 replies, that just made me $3,125.00! Those 3,125 persons will all deliver this message to 200 newsgroups with my name at #1 and if still 5 persons per 200 newsgroups react I will receive $15,625,00! With an original investment of only $6.00! AMAZING! When your name is no longer on the list, you just take the latest posting in the newsgroups, and send out another $6.00 to names on the list, putting your name at number 6 again. And start posting again. The thing to remember is, do you realize that thousands of people all over the world are joining the internet and reading these articles everyday. Remember play FAIRLY and HONESTLY and this will work.

From -7856622996698752460
X-Google-Thread: fc2a5,46f90ff97fcaa966
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 11 May 2007 17:45:38 -0500
From: "John Doe" <hgorden@adelphia.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1178921794.392950.114170@y80g2000hsf.googlegroups.com>
Subject: Re: YOU WON'T BELIEVE THIS, IT'S CRAZY BUT IT WORKS
Date: Fri, 11 May 2007 18:49:01 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <LLmdnSjYypCPb9nbnZ2dnUVZ_j2dnZ2d@comcast.com>

```
Lines: 136
NNTP-Posting-Host: 76.100.201.181
X-Trace: sv3-U536ZZX/
xmS4SLBw+L+aGWGCbICMy0Q3UOkoJ7v6aggXlqM546K1adwcW0iI1SNTN3jcc4i75a35/Bl!
3mgqoMrKtTvK2fvXMn44MSy/RL8FD9TPFLqJWb5gMvcMxLGSRfRFXROdn5YsOKfjlDOZdOiqeObH!
yi712sTgDwozQr1vmvJBHiL1A5Qa79A=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13241

THIS IS A BS SCAM!

<matty@mindless.com> wrote in message
news:1178921794.392950.114170@y80g2000hsf.googlegroups.com...
> THIS REALLY CAN MAKE YOU EASY MONEY! IT WORKS!
> BUT YOU HAVE TO FOLLOW IT CAREFULLY FOR IT TO WORK!
> A little while back, I was looking on the web for easy ways to make
> money and I kept thinking that all of the ways I was reading would
> never work and were just scams, but not this one!  The article that I
> had found said that I could make thousands of dollars easily in a
> matter of weeks with only an initial small payment of $6.00.  I
> thought, "Yeah, right, this must be a scam like most of the rest",
> but
> like most of us, I was curious, so I kept reading.  Anyway, it said
> that if I sent $1.00 to each of the 6 names and addresses listed at
> the bottom of the article that I would make great money but only if I
> followed the following steps.  After sending the $1.00 to each person
> you were then instructed to rewrite the list by taking the 1st person
> off of the list then moving the 2nd person to the 1st spot, and the
> 3rd person to the 2nd spot, etc, etc.  Finally you should be left
> with
> the number 6 spot empty and this is where you place your name and
> address.  After reconfiguring the list you then must post it on about
> 200 newsgroups (doesn't matter but the more places you post the more
> money you make!).  There are thousands and thousands of newsgroups
> from around the world so this task is easy and that was it when I was
> done!  No catch.  So after thinking it over, I thought about trying
> it. I figured, what have I got to lose except 6 stamps and $6.00,
> right?  Like most of us I was a little skeptical because it seemed so
> easy and I was a little worried about the legal aspects of it all.
> So
> I checked it out with the U.S. Post Office (1-800-725-2161) and they
> confirmed that it is indeed legal!  (U.S. Postal and Lottery Laws
> Title 18, Section 1302 and 1341 and Code of Federal Regulations,
> Volume 16, Sections 255 and 436)  After reviewing the pros and cons
> of
> the investment I decided to carry out with it.  I invested the measly
> $6.00 and guess what? Within 7 days, I started getting money in the
> mail!!  I was very shocked!  I figured it would end soon, but the
```

> money just kept coming in. In my first week, I made about $25.00.
> By
> the end of the second week I had made a total of over $1,000.00! In
> the third week I had over $6,000.00 and it's still growing. This is
> now my fourth week and I have made a total of just over $21,000.00
> and
> it's still coming in rapidly. It's certainly worth $6.00, and 6
> stamps. Now let me explain to you how this works and most
> importantly, why it works. Also, make sure you print a copy of this
> article NOW, so you can get the information off of it as you need it.
> STEP 1: Get 6 separate pieces of paper and write the following on
> each piece of paper "PLEASE PUT ME ON YOUR MAILING LIST." Now get 6
> US
> $1.00 bills and place ONE inside EACH of the 6 pieces of paper so the
> bill will not be seen through the envelope to prevent thievery.
> Next,
> place one paper in each of the 6 envelopes and seal them. You should
> now have 6 sealed envelopes, each with a piece of paper stating the
> above phrase (PLEASE PUT ME ON YOUR MAILING LIST), your name and
> address, and a $1.00 bill. What you are doing with this letter is
> creating a service. THIS IS ABSOLUTELY LEGAL!
> Now mail the 6 envelopes to the following addresses:
> 1. LORRAINE HUTCHINSON (P.O. BOX 23951 LONDON ENGLAND E12 5YP)
> 2. GEAN SAPP (1768 OLD HICKORY STREET, DECATUR, GA 30032)
> 3. TAMEKA HILL (P.O. BOX 188 JAMESVILLE, NC 27846)
> 4. DAN BELL (1519 CAMERON LANDING DRIVE, STOCKBRIDGE, GA 30281)
> 5. ERIC PORAT (2345 EAST 64 STREET, BROOKLYN, NY 11234)
> 6. MATT SANTIAMAGRO (1120 SUNSET AVE, KELLEY, IA 50134)
> STEP 2: After you have mailed out your letters creating a service and
> making this legal, take the #1 name off the list that you see above,
> move the other names up (6 becomes 5, 5 becomes 4, etc...) and add
> YOUR NAME & ADDRESS as number 6 on the list.
> STEP 3: Change anything you need to in this article, but try to keep
> this article as close to original as possible. Now, post your
> amended
> article to at least 200 newsgroups. (I believe there are close to
> 24,000 groups in USA alone). All you need is 200, but remember, the
> more you post- the more money you make!
> DIRECTIONS --HOW TO POST TO NEWSGROUPS
> Step a) You do not need to re-type this entire letter to do your own
> posting. Simply put your cursor at the beginning of this letter and
> drag your cursor to the bottom of this document, and select 'copy'
> from the edit menu. This will copy the entire letter into the
> computers memory.
> Step b) Open a blank "notepad" file under accessories in windows and
> place your cursor at the top of the blank page. From the 'edit' menu
> select 'paste'. This will paste a copy of the letter into notepad so
> that you can add your name to the list.
> Step c) Save your new notepad file as a .txt file. If you want to do
> your postings in different sittings, you'll always have this file to
> go back to.
> Step d) Use the Internet to search for various newsgroups (on-line
> forums, message boards, chat sites, discussions.)

```
> Step e) Visit these message boards and post this article as a new
> message by highlighting the text of this letter and selecting paste
> from the edit menu.  Fill in the Subject, this will be the header
> that
> everyone sees as they scroll through the list of postings in a
> particular group, click the post message button. After you have
> completed these steps you are done with your first posting.
> Congratulations! You are that much closer to easy money!  THAT'S IT!
> All you have to do is jump to different newsgroups and post away,
> after you get the hang of it, it will take about 30 seconds for each
> newsgroup!  That's it! You will begin receiving money from around the
> world within days! You may eventually want to rent a P.O.Box due to
> the large amount of mail you will receive.  If you wish to stay
> anonymous, you can invent a name to use, as long as the postman will
> deliver it. *JUST MAKE SURE ALL THE ADDRESSES ARE CORRECT AND
> REMEMBER, THE MORE NEWSGROUPS YOU POST IN, THE MORE MONEY YOU WILL
> MAKE!! BUT YOU HAVE TO POST A MINIMUM OF 200*
> WHY it works:  Out of 200 postings, say I receive only 5 replies (a
> very low example). So then I made $5.00 with my name at #6 on the
> letter. Now, each of the 5 persons who just sent me $1.00 make the
> MINIMUM 200 postings, each with my name at #5 and only 5 persons
> respond to each of the original 5, that is another $25.00 for me, now
> those 25 each make 200 MINIMUM posts with my name at #4 and only 5
> replies each, I will bring in an additional $125.00! Now, those 125
> persons turn around and post the MINIMUM 200 with my name at #3 and
> only receive 5 replies each, I will make an additional $626.00! OK,
> now here is the fun part, each of those 625 persons post a MINIMUM
> 200
> letters with my name at #2 and they each only receive 5 replies, that
> just made me $3,125.00! Those 3,125 persons will all deliver this
> message to 200 newsgroups with my name at #1 and if still 5 persons
> per 200 newsgroups react I will receive $15,625,00! With an original
> investment of only $6.00! AMAZING! When your name is no longer on the
> list, you just take the latest posting in the newsgroups, and send
> out
> another $6.00 to names on the list, putting your name at number 6
> again. And start posting again. The thing to remember is, do you
> realize that thousands of people all over the world are joining the
> internet and reading these articles everyday. Remember play FAIRLY
> and
> HONESTLY and this will work.
>
```

```
From -2985296868430099758
X-Google-Thread: fc2a5,5b12436b1a5a6d49,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!
hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe12.lga.POSTED!
53ab2750!not-for-mail
```

From: Jeff James <w2nbc@optonline.net>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Buy and sell tube gear!
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 6
Message-ID: <FP71i.1904$YN4.1237@newsfe12.lga>
Date: Fri, 11 May 2007 20:25:08 -0400
NNTP-Posting-Host: 68.196.6.3
X-Complaints-To: abuse@cv.net
X-Trace: newsfe12.lga 1178929509 68.196.6.3 (Fri, 11 May 2007 17:25:09 MST)
NNTP-Posting-Date: Fri, 11 May 2007 17:25:09 MST
Organization: Optimum Online
Xref: g2news1.google.com rec.radio.amateur.homebrew:13242

The Boatanchor Classifieds..
Free classifieds dedicated to vintage Amateur Radio..

http://www.dealamerica.com/deal/cgi-bin/ads/bcads.cgi

Thanks for your support

From 2980157140731468588
X-Google-Thread: fc2a5,c2086f2741caaca9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out01b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx02.iad01.newshosting.com!newshosting.com!nntpserver.com!zeus.nntpserver.com!
10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: "john jardine" <john@jjdesigns.fsnet.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <1342ko16kkk3v9e@corp.supernews.com>
Subject: Re: Roller inductor question
Date: Sat, 12 May 2007 12:55:37 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Lines: 61
Message-ID: <46459edb$0$16360$88260bb3@free.teranews.com>
NNTP-Posting-Date: 12 May 2007 11:02:52 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13243

"Joel Kolstad" <JKolstad71HatesSpam@Yahoo.Com> wrote in message
news:1342ko16kkk3v9e@corp.supernews.com...
> I've been thinking of getting some roller inductors to play with next time
I

> visit a hamfest, and it occurred to me that a generic roller inductor doesn't have a linear change in inductance with roller position... does it?
> E.g., at the half-way point you should get 1/4 the total inductance, right?
>
> Or is the form wound such that the turns are closer together at one end than nothing, thereby linearizing the inductace vs. roller position to some degree?
>
> Thanks,
> ---Joel Kolstad
>
> P.S. -- They never made small (say, size of an old Kodak film canister)-sized roller inductors meant for QRP work, did they? Most seem to be sized for hundreds if not thousands of watts.
>

Interesting puzzler and as I've a number of these Roller Coasters built in to various old military radios, I measured one.
This particular inductor is the "Aerial Tuning" inductor fitted inside the casing of a 1946 vintage, UK "Wireless set number 62", a TR-RX running about 2 to 8MHz. The inductor is a Paxolin former 6.5" long by 2" diameter, wound with what looks like 1mm dia' Silver wire. There's exactly 100 turns wound evenly along it's length and the radio front panel has a little window showing a "00" to "99" turns counter, operated by the tuning knob and a neat Geneva mechanism. For measurement purposes, it's ideal.

TURNS.	INDUCTANCE.
100	132uH
90	120uH
80	103uH
70	89uH
60	73uH
50	58uH
40	43uH
30	29uH
20	15.8uH
10	4.7uH
0	0.12uH

Values look not too non-linear and probably follow the solenoid formulas but I can't be arsed doing the calcs :).

--
Posted via a free Usenet account from http://www.teranews.com

```
From -3774527987331165337
X-Google-Thread: fc2a5,c2086f2741caaca9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news1.google.com!news.glorb.com!
wns14feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: "William E. Sabin" <w.sabin@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1342ko16kkk3v9e@corp.supernews.com>
<46459edb$0$16360$88260bb3@free.teranews.com>
Subject: Re: Roller inductor question
Lines: 33
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <3Vp1i.110679$_c5.59012@attbi_s22>
NNTP-Posting-Host: 12.217.187.231
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1179003583 12.217.187.231 (Sat, 12 May 2007 20:59:43 GMT)
NNTP-Posting-Date: Sat, 12 May 2007 20:59:43 GMT
Organization: AT&T ASP.att.net
Date: Sat, 12 May 2007 20:59:44 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13244
```

Using Mathcad, the coil mentioned in this thread has the following properties:

1) From 0 to 20 turns the inductance is 0.038 times n squared microhrenies (square law).

2) From 20 to 100 turns the inductance is (1.49 n - 16) microhenries (very linear).

For the first 20 turns the coil has the square law property because all of the turns are tightly coupled to each other. This is not the case for the other 80 turns of a long solenoid.

A PDF of the Mathcad calculation and graph are available by email from W0IYH at QRZ.COM).

Bill W0IYH

```
> TURNS. INDUCTANCE.
> 100    132uH
> 90     120uH
> 80     103uH
> 70     89uH
> 60     73uH
> 50     58uH
> 40     43uH
> 30     29uH
> 20     15.8uH
> 10     4.7uH
> 0      0.12uH
>
```

```
From 2478515734757001940
X-Google-Thread: fc2a5,65bf335b1bfd6d58,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!h2g2000hsg.googlegroups.com!not-for-mail
From: sd89fd0_7@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: How to reduce two-way radio's power output?
Date: 12 May 2007 15:11:26 -0700
Organization: http://groups.google.com
Lines: 15
Message-ID: <1179007886.815747.161220@h2g2000hsg.googlegroups.com>
NNTP-Posting-Host: 64.46.38.145
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1179007890 31212 127.0.0.1 (12 May 2007 22:11:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 12 May 2007 22:11:30 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h2g2000hsg.googlegroups.com; posting-host=64.46.38.145;
   posting-account=Dj5UYw0AAAAAOvTYPMt3k--9lMw8R6Gw
Xref: g2news1.google.com rec.radio.amateur.homebrew:13245
```

Nowadays two-way radios are getting more and more powerful, coverage up to 8, 10 12 or more miles. Ironically, it is even harder to buy one with only 2-mile distance.

I want to use a two radio just for short distance, for example, only within 1000 feet. How to modify the circuit (generally speaking) so I can extend the radio's powerful consumption? As I do not need it to communicate for longer distance, I want it to reduce power output, so I can use it for longer time. I know it is difficult to illustrate

without a schematics, but just in general terms, what kind of options
or in what areas can I do the modification?

One of my applications is to use 2-way radio as baby monitor for
longer distance than normal baby monitor does.

```
From 5687146632454509712
X-Google-Thread: fc2a5,65bf335b1bfd6d58
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!h2g2000hsg.googlegroups.com!not-for-
mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to reduce two-way radio's power output?
Date: 12 May 2007 15:24:24 -0700
Organization: http://groups.google.com
Lines: 34
Message-ID: <1179008664.226497.182740@h2g2000hsg.googlegroups.com>
References: <1179007886.815747.161220@h2g2000hsg.googlegroups.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1179008667 717 127.0.0.1 (12 May 2007 22:24:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 12 May 2007 22:24:27 +0000 (UTC)
In-Reply-To: <1179007886.815747.161220@h2g2000hsg.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-te09.proxy.aol.com[CFC8722D] (Prism/1.2.0), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: h2g2000hsg.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com rec.radio.amateur.homebrew:13246
```

On May 12, 2:11?pm, sd89fd...@yahoo.com wrote:
> Nowadays two-way radios are getting more and more powerful, coverage
> up to 8, 10 12 or more miles. Ironically, it is even harder to buy one
> with only 2-mile distance.
>
> I want to use a two radio just for short distance, for example, only
> within 1000 feet. How to modify the circuit (generally speaking) so I
> can extend the radio's powerful consumption? As I do not need it to
> communicate for longer distance, I want it to reduce power output, so
> I can use it for longer time. I know it is difficult to illustrate
> without a schematics, but just in general terms, what kind of options
> or in what areas can I do the modification?
>

> One of my applications is to use 2-way radio as baby monitor for
> longer distance than normal baby monitor does.

The simplest modification is an attenuator pad between In/Out and the antenna. If you have a "one-piece" FRS HT such as the little Motorola my wife and I use at home, it is difficult to wedge one in there. An alternative in that case is to use a piece of conducting foam (typically for storage of CMOS digital devices) to sit over the antenna stub. One has to experiment with the size of the block of plastic foam.

A drawback to using an HT is the power drain on the internal battery and forcing the PTT button into transmit all the time. That will eat up battery charges and an external power source would be needed. However, always on transmit can cause interference to other users on that FRS channel and is a legal no-no. It would be better to just get an old 49 MHz baby monitor and use that directly.

73, Len AF6AY

```
From -1643389443540380703
X-Google-Thread: fc2a5,9f54a1735a4d7d8b,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 6146 amp
Date: Sat, 12 May 2007 21:28:27 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Lines: 12
Message-ID: <464669b3$0$9904$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13247
```

I am trying to modify a 1 tube amp for 6 meters using a 6146. I think the amp was origionally used for CB though it does tune up on 10 meters. It worked OK before I removed the input circuit and put in one for 6M. The problem is I cant neutralize the damn thing. It makes a great osc.I was thinking of scraping the tuned input and replacing it with a 200 ohm resistor and a 4:1UNUN. I figure this low of an impedance on the grid would swamp out any feedback that might me causing it to osc. I have about 5 watts PEP of drive.

Jimmie

From 6884122990948565066
X-Google-Thread: fc2a5,9f54a1735a4d7d8b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe24.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <464669b3$0$9904$4c368faf@roadrunner.com>
Subject: Re: 6146 amp
Lines: 28
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <NBu1i.74848$vE1.57423@newsfe24.lga>
Date: Sat, 12 May 2007 22:20:26 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe24.lga 1179022829 68.0.230.122 (Sat, 12 May 2007 19:20:29 MST)
NNTP-Posting-Date: Sat, 12 May 2007 19:20:29 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13248

"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
news:464669b3$0$9904$4c368faf@roadrunner.com...
>I am trying to modify a 1 tube amp for 6 meters using a 6146. I think the
>amp was origionally used for CB though it does tune up on 10 meters. It
>worked OK before I removed the input circuit and put in one for 6M. The
>problem is I cant neutralize the damn thing. It makes a great osc.I was
>thinking of scraping the tuned input and replacing it with a 200 ohm
>resistor and a 4:1UNUN. I figure this low of an impedance on the grid would
>swamp out any feedback that might me causing it to osc. I have about 5
>watts PEP of drive.
>
> Jimmie
>

It could be the screen bypassing--it is critical.

If you can find an old VHF ARRL Handbook
from the sixties you might find some ideas, tips and tricks regarding using
these tubes on VHF. Another problem is unwanted inductive feedback, such
as when the ground ring lugs on some style sockets were used for the

bypass caps... Those rings had enough inductance at VHF to cause unwanted coupling... Can you neutralize the tube using the conventional neutralizing stub method??

Pete k1zjh

```
From 8354934024052591560
X-Google-Thread: fc2a5,65bf335b1bfd6d58
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
From: Doug Smith W9WI <w9wi@invalid.nospam>
Subject: Re: How to reduce two-way radio's power output?
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.05.13.05.00.52.8088@invalid.nospam>
Newsgroups: rec.radio.amateur.homebrew
References: <1179007886.815747.161220@h2g2000hsg.googlegroups.com>
<1179008664.226497.182740@h2g2000hsg.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 38
Date: Sun, 13 May 2007 04:42:39 GMT
NNTP-Posting-Host: 4.153.64.158
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1179031359 4.153.64.158 (Sat, 12 May
2007 21:42:39 PDT)
NNTP-Posting-Date: Sat, 12 May 2007 21:42:39 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13249
```

On Sat, 12 May 2007 15:24:24 -0700, AF6AY wrote:

> On May 12, 2:11?pm, sd89fd...@yahoo.com wrote:
>> Nowadays two-way radios are getting more and more powerful, coverage
>> up to 8, 10 12 or more miles. Ironically, it is even harder to buy one
>> with only 2-mile distance.
>>
>> I want to use a two radio just for short distance, for example, only
>> within 1000 feet. How to modify the circuit (generally speaking) so I
>> can extend the radio's powerful consumption? As I do not need it to
>> communicate for longer distance, I want it to reduce power output, so
>> I can use it for longer time. I know it is difficult to illustrate
>> without a schematics, but just in general terms, what kind of options
>> or in what areas can I do the modification?
> ...
> The simplest modification is an attenuator pad between In/Out
> and the antenna. If you have a "one-piece" FRS HT such as
> the little Motorola my wife and I use at home, it is difficult to

> wedge one in there. An alternative in that case is to use a
> piece of conducting foam (typically for storage of CMOS digital
> devices) to sit over the antenna stub. One has to experiment
> with the size of the block of plastic foam.

I think his point is that he's trying to reduce transmitter output power to conserve battery life - of course, an attenuator pad isn't going to accomplish that.

Probably the "easiest" way to accomplish this would be to bypass the final amplifier stage, passing its drive signal directly to the final filter, and from there to the antenna. I would suggest this would be nearly impossible to accomplish without a schematic - and not particularly easy even with it.

I wonder if the best route would be to use a regular baby monitor transmitter - but use a better receiver and/or receiving antenna? Like a decent scanner, possibly with an attic antenna. This method is easy to accomplish even for someone without electronics experience, and unquestionably legal, unlike many other alternatives.

```
From 6860936642887013534
X-Google-Thread: fc2a5,65bf335b1bfd6d58
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out04b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 13 May 2007 05:00:13 -0500
Date: Sun, 13 May 2007 15:00:39 +0000
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 1.5.0.10 (X11/20070305)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to reduce two-way radio's power output?
References: <1179007886.815747.161220@h2g2000hsg.googlegroups.com>
In-Reply-To: <1179007886.815747.161220@h2g2000hsg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Wqydnayp1_cwfNvbnZ2dnUVZ8tKsnZ2d@pipex.net>
Lines: 26
NNTP-Posting-Host: 85.210.5.222
X-Trace: sv3-5imNQRPfyVvqBZzFDdgjt1Ef6M099cuH8myQKMoPZkZP7AlLUFYo1iDXvTFLy/vS8W4/
RFAa9YPHFWC!
aw0HAt2khPZdy86a36m2fp8e6LDmIJld0iE4V42uScuMZ16cEAWsZ5lxKsgSZV9fcl8kWmXgUkYn!
jGh4V6sfMJZmcob+Qn0mmMd+
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

```
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13250

sd89fd0_7@yahoo.com wrote:
> Nowadays two-way radios are getting more and more powerful, coverage
> up to 8, 10 12 or more miles. Ironically, it is even harder to buy one
> with only 2-mile distance.
>
> I want to use a two radio just for short distance, for example, only
> within 1000 feet. How to modify the circuit (generally speaking) so I
> can extend the radio's powerful consumption? As I do not need it to
> communicate for longer distance, I want it to reduce power output, so
> I can use it for longer time. I know it is difficult to illustrate
> without a schematics, but just in general terms, what kind of options
> or in what areas can I do the modification?
>
> One of my applications is to use 2-way radio as baby monitor for
> longer distance than normal baby monitor does.
================================
Assuming that you talk about licence free handheld radios eg FRS in the
USA   or PMR446 in Europe ,500 milli Watt  with a fixed  (rubber duck)
antenna , you can locate the radio (partly) inside a plastic or carton
cylinder which is covered with baking foil (also at one end)

The more the antenna is surrounded by the cylinder ,hence baking foil ,
the weaker the radiated signal . You then can adjust the cylinder such
that a acceptable signal is received at the other location.

Frank    GM0CSZ / KN6WH


From 5924213685529413670
X-Google-Thread: fc2a5,65bf335b1bfd6d58
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out03b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny02.POSTED!0da99462!
not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1179007886.815747.161220@h2g2000hsg.googlegroups.com>
Subject: Re: How to reduce two-way radio's power output?
Lines: 32
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <hgD1i.6186$1X1.1174@trndny02>
Date: Sun, 13 May 2007 12:11:57 GMT
```

NNTP-Posting-Host: 68.236.10.79
X-Complaints-To: abuse@verizon.net
X-Trace: trndny02 1179058317 68.236.10.79 (Sun, 13 May 2007 08:11:57 EDT)
NNTP-Posting-Date: Sun, 13 May 2007 08:11:57 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13251

Locate the trace that feeds switched battery voltage to the final transmitting stage. Cut this trace somewhere between the transmit switching circuit and the final amp stage. Insert a few rectifier-type diodes (1N400x) in series across the cut point. Each diode in series will lower the voltage to the final amp stage about .7V or so. For each halving of voltage to the final stage, the output power (and consequently the power load on the battery) will drop by 4:1. All of this assumes that the final amplifier is well-behaved under reduced voltage conditions, which should be true but is not guaranteed.

Joe
W3JDR

<sd89fd0_7@yahoo.com> wrote in message
news:1179007886.815747.161220@h2g2000hsg.googlegroups.com...
> Nowadays two-way radios are getting more and more powerful, coverage
> up to 8, 10 12 or more miles. Ironically, it is even harder to buy one
> with only 2-mile distance.
>
> I want to use a two radio just for short distance, for example, only
> within 1000 feet. How to modify the circuit (generally speaking) so I
> can extend the radio's powerful consumption? As I do not need it to
> communicate for longer distance, I want it to reduce power output, so
> I can use it for longer time. I know it is difficult to illustrate
> without a schematics, but just in general terms, what kind of options
> or in what areas can I do the modification?
>
> One of my applications is to use 2-way radio as baby monitor for
> longer distance than normal baby monitor does.
>

From 8154240091433776271
X-Google-Thread: fc2a5,65bf335b1bfd6d58
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!63.218.45.11!nx02.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1179007886.815747.161220@h2g2000hsg.googlegroups.com>
<hgD1i.6186$1X1.1174@trndny02>
Subject: Re: How to reduce two-way radio's power output?

Date: Sun, 13 May 2007 12:50:17 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Lines: 42
Message-ID: <464741c1$0$2416$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
NNTP-Posting-Host: 71.68.80.78
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13252

"W3JDR" <joe@roccis.com> wrote in message
news:hgD1i.6186$1X1.1174@trndny02...
> Locate the trace that feeds switched battery voltage to the final
> transmitting stage. Cut this trace somewhere between the transmit
> switching circuit and the final amp stage. Insert a few rectifier-type
> diodes (1N400x) in series across the cut point. Each diode in series will
> lower the voltage to the final amp stage about .7V or so. For each halving
> of voltage to the final stage, the output power (and consequently the
> power load on the battery) will drop by 4:1. All of this assumes that the
> final amplifier is well-behaved under reduced voltage conditions, which
> should be true but is not guaranteed.
>
> Joe
> W3JDR
>
> <sd89fd0_7@yahoo.com> wrote in message
> news:1179007886.815747.161220@h2g2000hsg.googlegroups.com...
>> Nowadays two-way radios are getting more and more powerful, coverage
>> up to 8, 10 12 or more miles. Ironically, it is even harder to buy one
>> with only 2-mile distance.
>>
>> I want to use a two radio just for short distance, for example, only
>> within 1000 feet. How to modify the circuit (generally speaking) so I
>> can extend the radio's powerful consumption? As I do not need it to
>> communicate for longer distance, I want it to reduce power output, so
>> I can use it for longer time. I know it is difficult to illustrate
>> without a schematics, but just in general terms, what kind of options
>> or in what areas can I do the modification?
>>
>> One of my applications is to use 2-way radio as baby monitor for
>> longer distance than normal baby monitor does.
>>
>
>

A lot of the time both the final and the driver are fed from the same source
so just one diode may have a considerable effect.

Jimmie

From -6191232682663130003
X-Google-Thread: fc2a5,905eea042249de73,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p77g2000hsh.googlegroups.com!not-for-mail
From: MarkAren <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Need help to identify a dual modulus PLL IC
Date: 13 May 2007 13:09:40 -0700
Organization: http://groups.google.com
Lines: 32
Message-ID: <1179086980.742361.114660@p77g2000hsh.googlegroups.com>
NNTP-Posting-Host: 222.155.189.220
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1179086981 20771 127.0.0.1 (13 May 2007 20:09:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 13 May 2007 20:09:41 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p77g2000hsh.googlegroups.com; posting-host=222.155.189.220;
   posting-account=0vCTfAwAAACvA6pNXnot7Fa7QcUC1A3e
Xref: g2news1.google.com rec.radio.amateur.homebrew:13253

Hi all,

It's marked D3827G002 in a 16 pin SOIC and is used in an AMPS RX chain

Pins identified so far:

PIN 1	Ref / 64 (?)
PIN 2	Ref / 64 (?)
PIN 3	Clock, Data or Strobe
PIN 4	Clock, Data or Strobe
PIN 5	Clock, Data or Strobe
PIN 6	5V
PIN 7	REF IN (15.36MHz)
PIN 8	
PIN 9	
PIN 10	
PIN 11	
PIN 12	
PIN 13	GND
PIN 14	From Prescaler (?)
PIN 15	Modulus Select out (?)
PIN 16	

Date code is around 1990.

Any pointers to a data sheet or a programming guide will be most
welcome.

Thanks,

Mark.

From 8115546625734633372
X-Google-Thread: fc2a5,9f54a1735a4d7d8b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 14 May 2007 09:03:36 -0500
From: "jack" <jdwalton@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <464669b3$0$9904$4c368faf@roadrunner.com>
<NBu1i.74848$vE1.57423@newsfe24.lga>
Subject: Re: 6146 amp
Date: Mon, 14 May 2007 10:07:50 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Message-ID: <taednUfjwe6l8dXbnZ2dnUVZ_oytnZ2d@comcast.com>
Lines: 8
NNTP-Posting-Host: 69.249.69.72
X-Trace: sv3-847Iiq7MvKmZy7T+/88H8nG42g20hNvd7XWNQteSlkLZmwyWeTWKyoqkQ7OInmMk6/
hRRmnWtXBiKWV!HBrGXjVBi5w6+pWkdKyWKKzKSBW4Bu8Jr3PF3VzxaRecCLY5RJlrVo/
mtcUOr1Zn0Dtya+Wzr8a1!9NhS2KMV0YtgYLqYi1Eci45UERc8
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13254

The VHF Hanbook from the 1960's used a 6252 -- I believe that this was also
the bube used in various transverters sold by Hallicrafters --- my but no
6146 design -- I still have a bunch of 6360's hanging around from that era.

There is a 6146 transverter design in the 1973 ARRL Handbook --
comprehensive enough to get you done.

From 3263916516081224543
X-Google-Thread: fc2a5,9fbd2125e16f8392,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!
newshosting.com!post01.iad01!not-for-mail
From: cbx <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Bluetooth
Date: Mon, 14 May 2007 09:56:07 -0500
Message-ID: <j0ug43t9o4djsk80qn6iks0dt30h0ilmvg@4ax.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 6
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13255

WOuld anyone know of any construction articles on interfacing
a BLUETOOTH headset with an HT?

Thanks

From 2705785997488029487
X-Google-Thread: fc2a5,9f54a1735a4d7d8b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out02a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx02.iad01.newshosting.com!newshosting.com!198.186.194.247.MISMATCH!news-
out.readnews.com!news-xxxfer.readnews.com!panix!panix1.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6146 amp
Date: Mon, 14 May 2007 11:28:28 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 53
Message-ID: <Pine.NEB.4.64.0705141114380.612@panix1.panix.com>
References: <464669b3$0$9904$4c368faf@roadrunner.com>
NNTP-Posting-Host: panix1.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1179156508 26018 166.84.1.1 (14 May 2007 15:28:28 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 14 May 2007 15:28:28 +0000 (UTC)

In-Reply-To: <464669b3$0$9904$4c368faf@roadrunner.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:13256

It might help to give us some more information (see below):

On Sat, 12 May 2007, Jimmie D wrote:

> I am trying to modify a 1 tube amp for 6 meters using a 6146. I think the amp was origionally used for CB though it does tune up on 10 meters. It worked OK before I removed the input circuit and put in one for 6M.

A key question I would ask at this point is whether the amp, used originally for CB (27 mHz), was, itself neutralized? Some ham transmitters were not neutralized (eg. Heathkit, Ranger) although they were operated up to 10 meters.

The

> problem is I cant neutralize the damn thing.

When you removed the original input circuit, what, exactly, did you replace it with?

I have found that neutralization of grounded-cathode amplifiers (i.e. high gain) can be a major pain.

It makes a great osc.I was

> thinking of scraping the tuned input and replacing it with a 200 ohm resistor and a 4:1UNUN. I figure this low of an impedance on the grid would swamp out any feedback that might me causing it to osc.

Nah, I gonna bet that ain't gonna work.

I have about 5 watts

> PEP of drive.

FWIW:
My approach to this would be to build something grounded-grid and that means any grid tube where you can get all the grids to (real) ground. You _might_ get 6AG7s or 6CL6s (two might be enough) in parallel and any decent input matching network might do the job for you and get about one "S-unit" of power gain. Tube efficiency will be a little lower at 50 mHz than 27-28 mhz but not that much.

One of the guys said that screen grid bypassing is critical and I can attest to that, too. Some of the published material even gives separate neutralization circuits for just the screen grid circuit. Very big pain in the neck if you have to do this by trial and error.

Good luck!

> Jimmie

>
>
>

From 4324993793918470620
X-Google-Thread: fc2a5,f72ef04af3ab7dd9,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Subject: Homebrew Keyer
From: "Jim Barnard" <jbarnard@ftc-i.net>
Date: Mon, 14 May 2007 19:03:15 -0400
Message-ID: <f2aprl$kba$1@news04.infoave.net>
Lines: 7
NNTP-Posting-Host: 216.218.70.239
Organization: Info Avenue Internet Services, LLC
Path: g2news1.google.com!news1.google.com!news.glorb.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!news-out.spamkiller.net!
sp6iad.superfeed.net!news-in.nuthinbutnews.com!news.infoave.net!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
X-Trace: news04.infoave.net 1179183797 20842 216.218.70.239 (14 May 2007 23:03:17
GMT)
X-Complaints-To: abuse@infoave.net
NNTP-Posting-Date: Mon, 14 May 2007 23:03:17 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Xref: g2news1.google.com rec.radio.amateur.homebrew:13257

Does anyone have a schematic for a nice homebrew keyer that can be made for
a reasonable price. I would like to make my own.
Thanks,

Jim Barnard, KI4VGK

From 8145170857175213736
X-Google-Thread: fc2a5,f72ef04af3ab7dd9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!newspeer.tds.net!
216.170.153.140.MISMATCH!newsreading01.news.tds.net!53ab2750!not-for-mail
From: "John, N9JG" <john@Xremove.MeYgotwals.com>
Newsgroups: rec.radio.amateur.homebrew
References: <f2aprl$kba$1@news04.infoave.net>
Subject: Re: Homebrew Keyer
Lines: 18
Organization: CLM ARRL
X-Priority: 3

```
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <R072i.34506$G23.13618@newsreading01.news.tds.net>
Date: Tue, 15 May 2007 00:20:01 GMT
NNTP-Posting-Host: 69.130.138.178
X-Complaints-To: news@tds.net
X-Trace: newsreading01.news.tds.net 1179188401 69.130.138.178 (Mon, 14 May 2007
19:20:01 CDT)
NNTP-Posting-Date: Mon, 14 May 2007 19:20:01 CDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13258

Not a schematic, but how about a kit?
http://www.idiompress.com/cmos4.html

----- Original Message -----
From: "Jim Barnard" <jbarnard@ftc-i.net>
Newsgroups: rec.radio.amateur.homebrew
Sent: Monday, May 14, 2007 7:03 PM
Subject: Homebrew Keyer


> Does anyone have a schematic for a nice homebrew keyer that can be made
> for a reasonable price. I would like to make my own.
> Thanks,
>
> Jim Barnard, KI4VGK
>




From -699498629478500806
X-Google-Thread: 1109af,8ee159e3cfd810d6,start
X-Google-Thread: 107ada,8ee159e3cfd810d6,start
X-Google-Thread: 107cee,8ee159e3cfd810d6,start
X-Google-Thread: f4e7d,8ee159e3cfd810d6,start
X-Google-Thread: 1130cb,8ee159e3cfd810d6,start
X-Google-Thread: fc2a5,8ee159e3cfd810d6,start
X-Google-Thread: fc8b1,8ee159e3cfd810d6,start
X-Google-Thread: 10b9c8,8ee159e3cfd810d6,start
X-Google-Attributes:
gid1109af,gid107ada,gid107cee,gidf4e7d,gid1130cb,gidfc2a5,gidfc8b1,gid10b9c8,publi
c
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.250.MISMATCH!transit3.readnews.com!news-out.readnews.com!panix!bloom-
beacon.mit.edu!senator-bedfellow.mit.edu!dreaderd!not-for-mail
Newsgroups:
rec.radio.swap,rec.radio.amateur.misc,sci.electronics.misc,ne.forsale,ne.general,r
ec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.info
```

Subject: ** FLEA at MIT **   Sunday May 20th   Cambridge MA
Summary: Buy Sell SWAP Ham Radio Electronics Computers 9AM - 2PM
Expires: 5/21/07
Followup-To: poster
Approved: rec-radio-info@panix.com
Distribution: na
Organization: Massachvsetts Institvte of Technology
Keywords: Hamfest Fleamarket SWAPFEST Computers Ham Radio Electronics
From: w1gsl@mit.edu (Steven L. Finberg)
Date: 15 May 2007 00:37:22 GMT
Lines: 133
Message-ID: <464900c2$0$499$b45e6eb0@senator-bedfellow.mit.edu>
NNTP-Posting-Host: GRUMPY-FUZZBALL.MIT.EDU
X-Trace: 1179189442 senator-bedfellow.mit.edu 499 18.7.18.69
Xref: g2news1.google.com rec.radio.swap:16233 rec.radio.amateur.misc:35966
sci.electronics.misc:15586 ne.forsale:1856 ne.general:16467
rec.radio.amateur.homebrew:13259 rec.radio.amateur.boatanchors:11600
rec.radio.info:294

This comming Sunday...

+++ Now even more Buyers Parking !!!
Thanks to Shire we have use of their new parking lot
across Albany St from the SWAPFEST !!!

!! ** More Buyers PARKING is available ** for details see
http://web.mit.edu/w1gsl/Public/flyer

*** !!!! In our Traditional GARAGE and the adjacent lot !!!! ****
so come rain or shine or super heat the Flea is on !!!

********* $1 buyers discount with hardcopy of this notice ********

COMPUTERS - ELECTRONICS - HAM RADIO - COMPUTERS - ELECTRONICS - HAM RADIO

FLEA all SUMMER at MIT
Sunday May 20th 2007
9AM-2PM

Come to the city for a great flea - plenty of free parking.

MIT's electronics and ham radio flea will take
place on the third Sunday of each month this summer,
April thru October.

There is tailgate space for over 600 sellers and
free, off-street parking for >2000 cars!

Buyers admission is $5 (you get $1 off if
you're lucky enough to have a copy of our ad)
and sellers spaces are $20 for the first and
$15 for each additional at the gate.

The flea will be held at the corner of Albany and Main streets in Cambridge; right in the Kendall Square area from 9AM to 2PM, with sellers set-up time starting at 7AM.

SEASON PASS + Advance Seller Discount

A sellers discount season pass is available which offers a 30% discount. By prepaying you get a discount and earlier admission. See the registration form.

*** Attention Sellers ***
Prepaid vendors.. Season Pass or monthly,
will be admitted FIRST.
Separate lines will form prior to gate opening
for prepaid and nonprepaid vendors

!! RAIN or SHINE !! Have no fear of rain, a covered well illuminated tailgate area is available for all sellers (6'8" clearance).

Talk-in: 145.23- (PL 88.5) W1BOS/R and
W1XM/R-449.725/444.725 (PL 114.8/2A).

Sponsors: MIT Electronics Research Society
MIT UHF Repeater Association (W1XM)
MIT Radio Society (W1MX)
Harvard Wireless Club (W1AF)

For more info / advanced reservations 617 253 3776

********** $1 buyers discount with hard copy of this notice ************

<<<<<<<<<<<<<<<<<<<<<<<< cut here >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Mail the coupon below by the 5th of the month to be a Prepaid Vendor.

FLEA at MIT 2007 Rates

SELLERS

To use your prepaid spaces the named vendor MUST be present.
Rates include one admission per space.

Advance $17 First space
$12 Additional Spaces
Must be received by the 5th of the month.

Gate Admission $20 First Space
$15 Additional Spaces
Admission is after the prepaid vendors

```
Early Bird Buyer -Admission after the prepaid vendor line is admitted. ~ 7:15AM
                ** You may not sell. **
                $15 per person at the gate.


******************************  cut here *******************************

FLEA at MIT   2007      Advance Space Application

   ____April    ____May    ____June   ____ July  ____Aug   ___Sept   ____Oct
          @ $17  for the first each month  + $12 each additional

Name    ________________________    Call  __________      $ Included______

Address ________________________    Phone  __________    Make Check to
                                                        The MIT Radio Society
City  ____________________ State  _______  Zip  _______    PO Box 397082
                                                          Cambridge MA 02139
E-mail  _____________________________________________


*******************************************************************************
Steve Finberg                      W1GSL                         w1gsl@mit.edu
PO Box 82 MIT Br           Cambridge MA  02139-7082               617 258 3754
*******************************************************************************
```

```
From -3646425695544866063
X-Google-Thread: fc2a5,f72ef04af3ab7dd9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out02a.usenetserver.com!
```

news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe03.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <f2aprl$kba$1@news04.infoave.net>
Subject: Re: Homebrew Keyer
Lines: 28
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <by72i.35$8a.10@newsfe03.lga>
X-Trace:
pgpdkimbbbabbbpelhbgfpgcdpepfmkgfamcloialkaogollnicfceledepkikoolhlefpnpglhfdcnhcg
omeiamjimbkifblnnfkjjhhkkconjhaopnmjanilaefkbijcecfidbdaffifbo
NNTP-Posting-Date: Mon, 14 May 2007 17:55:35 MST
Date: Mon, 14 May 2007 20:50:30 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:13260

Nowadays, most keyers are nothing more than a micrcontroller, usually a PIC, a battery, a couple of jacks, and some sort of interface, usually a pushbutton. There must be a hundred designs out there, but they all boil down to the same thing. It used to be that the PIC was relatively expensive ($6 or $7) but nowadays, a PIC with more than enough juice for non-memory keyer is $1.01 at Newark. For a memory keyer, you might have to get close to $2. Still way less than the shipping.

A quick google reveals
http://www.qsl.net/dl4yhf/pic_key.html
http://www.qrpis.org/~k3ng/pic/pic_keyer_2.html
http://www.vk1od.net/pik/pik.htm

Far Circuits has a PC board, K1EL sells programmed chips. Google is your friend!

..

"Jim Barnard" <jbarnard@ftc-i.net> wrote in message
news:f2aprl$kba$1@news04.infoave.net...
> Does anyone have a schematic for a nice homebrew keyer that can be made
> for a reasonable price. I would like to make my own.
> Thanks,
>
> Jim Barnard, KI4VGK
>

From 1612333312209660091
X-Google-Thread: fc2a5,f72ef04af3ab7dd9

```
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!newsfeed1.ip.tiscali.net!
tiscali!newsfeed2.ip.tiscali.net!news.astraweb.com!newsrouter-eu.astraweb.com!
192.87.166.29.MISMATCH!txtfeed2.tudelft.nl!tudelft.nl!txtfeed1.tudelft.nl!
newsfeed.CARNet.hr!not-for-mail
From: Darko_SWL <9a3li_makni_@hamradio.hr>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew Keyer
Date: Tue, 15 May 2007 15:52:53 +0200
Organization: CARNet, Croatia
Lines: 5
Message-ID: <f2ce0u$v44$1@news1.carnet.hr>
References: <f2aprl$kba$1@news04.infoave.net>
NNTP-Posting-Host: ham2.cc.fer.hr
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-2; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news1.carnet.hr 1179237215 31876 161.53.16.179 (15 May 2007 13:53:35 GMT)
X-Complaints-To: abuse@CARNet.hr
NNTP-Posting-Date: Tue, 15 May 2007 13:53:35 +0000 (UTC)
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
In-Reply-To: <f2aprl$kba$1@news04.infoave.net>
Xref: g2news1.google.com rec.radio.amateur.homebrew:13261

Jim Barnard wrote:
> Does anyone have a schematic for a nice homebrew keyer that can be made for
> a reasonable price. I would like to make my own.

http://ham2.cc.fer.hr/9a5anb/keyer/index.html


From 5825824369160574230
X-Google-Thread: fc2a5,78b32b72fac1b7a4,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!newsfeed01.sul.t-
online.de!newsfeed00.sul.t-online.de!t-online.de!newsfeed.t-com.hr!news3.t-com.hr!
not-for-mail
From: TomKal <tomislav.kaltnecker@kr.t-com.hr>
Newsgroups: rec.radio.amateur.homebrew
Subject: External VOX
Date: Tue, 15 May 2007 21:15:27 +0200
Organization: T-Com
Lines: 2
Message-ID: <f2d0sf$jib$1@ss408.t-com.hr>
NNTP-Posting-Host: 83-131-88-0.adsl.net.t-com.hr
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: ss408.t-com.hr 1179256528 20043 83.131.88.0 (15 May 2007 19:15:28 GMT)
X-Complaints-To: abuse@t-com.hr
NNTP-Posting-Date: Tue, 15 May 2007 19:15:28 +0000 (UTC)
```

User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
X-Antivirus: avast! (VPS 000740-1, 15.05.2007), Outbound message
X-Antivirus-Status: Clean
Xref: g2news1.google.com rec.radio.amateur.homebrew:13262

Looking for External VOX schematics.
Tom

From 5138616269890182238
X-Google-Thread: fc2a5,65bf335b1bfd6d58
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder3.cambrium.nl!feeder2.cambrium.nl!feed.tweaknews.nl!border2.nntp.ams.giganews.com!nntp.giganews.com!sn-xt-ams-06!sn-xt-ams-05!sn-post-ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "john graesser" <graesser@tca.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How to reduce two-way radio's power output?
Date: Wed, 16 May 2007 10:02:28 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <134m74e77af3e01@corp.supernews.com>
References: <1179007886.815747.161220@h2g2000hsg.googlegroups.com>
<1179008664.226497.182740@h2g2000hsg.googlegroups.com>
<pan.2007.05.13.05.00.52.8088@invalid.nospam>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
X-Complaints-To: abuse@supernews.com
Lines: 20
Xref: g2news1.google.com rec.radio.amateur.homebrew:13263

"Doug Smith W9WI" <w9wi@invalid.nospam> wrote in message
news:pan.2007.05.13.05.00.52.8088@invalid.nospam...

> I wonder if the best route would be to use a regular baby monitor
> transmitter - but use a better receiver and/or receiving antenna? Like a
> decent scanner, possibly with an attic antenna. This method is easy to
> accomplish even for someone without electronics experience, and
> unquestionably legal, unlike many other alternatives.

Unless the OP intends to use it for covert evesdropping, hence the plan to make the battery last longer. 1000 feet is a long way for a baby monitor to be needed that would be on the next block in most cities.

Asking in an amatuer radio newsgroup (where the goal is often increasing the range not decreasing it) might not be the best source of info.
thanks, John.
KC5DWD

```
From -2325030571063655226
X-Google-Thread: fc8b1,ea04ff02a2f72bc8,start
X-Google-Thread: fc2a5,ea04ff02a2f72bc8,start
X-Google-Attributes: gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o5g2000hsb.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: 6BY6 vs 6BE6 in product detectors
Date: 16 May 2007 12:10:56 -0700
Organization: http://groups.google.com
Lines: 8
Message-ID: <1179342656.138091.99550@o5g2000hsb.googlegroups.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1179342670 24203 127.0.0.1 (16 May 2007 19:11:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 16 May 2007 19:11:10 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o5g2000hsb.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com rec.radio.amateur.boatanchors:11630
rec.radio.amateur.homebrew:13264
```

Is there any obvious choice in 6BY6 vs 6BE6 in a product detector?

I've subbed one for the other in replacement uses and there wasn't any hugely obvious differences, but maybe if someone told me what to look for... :-)

Tim KA0BTD

```
From 3795948058752460528
X-Google-Thread: fc2a5,4e09c61e6662ea0d,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!c35g2000hsg.googlegroups.com!not-for-
mail
From: paulonjorge@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: do YOU have this?
Date: 2 May 2007 21:40:51 -0700
Organization: http://groups.google.com
```

Lines: 8
Message-ID: <1178167251.766482.200130@c35g2000hsg.googlegroups.com>
NNTP-Posting-Host: 194.3.118.15
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1178167252 5373 127.0.0.1 (3 May 2007 04:40:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 3 May 2007 04:40:52 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: 1.1 balpxr00.eutelsat.fr:8080 (squid/2.5.STABLE9)
Complaints-To: groups-abuse@google.com
Injection-Info: c35g2000hsg.googlegroups.com; posting-host=194.3.118.15;
   posting-account=D_vFow0AAAADQtX9ILxH-QdBN4mbz7-a
Xref: g2news1.google.com rec.radio.amateur.homebrew:13165

Hello,
...Looking for a Magnetic-Loop article by PE1LKT which appeared in the May 2005 issue of Electron magazine by VERON. Any help/ideas much appreciated.

cheers
Paul

From 4097086999156867306
X-Google-Thread: fc2a5,7f6bb48ae151e713
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 03 May 2007 05:13:31 -0500
Date: Thu, 03 May 2007 11:14:16 -0400
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 1.5.0.10 (X11/20070305)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6m amp
References: <46385917$0$9905$4c368faf@roadrunner.com>
<46392218.2060702@worldnet.att.net>
In-Reply-To: <46392218.2060702@worldnet.att.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <GKWdnRAyvMtWKKTbnZ2dnUVZ8tmhnZ2d@pipex.net>
Lines: 30
NNTP-Posting-Host: 81.178.99.47
X-Trace: sv3-
r0inurhbyE0wuvONNiTPJKx+PbcSfbsvOjVyJSHknxhgBcGMkfWvucSSUsrcNmrO4ok7dNnkUOQV11c!
M2UMbQdCrUDR/i2LZ006/OeGvDhVemuHx756nceJxXqYU/r8yW3N2jQ0vgmU1ncO0Rub3LPygG1b!
Kjh9+y2GXVkzi89/qbn4IFwy

```
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13166

John Siegel wrote:
>
>
> Jimmie D wrote:
>>  a guy has a 6m amp for sale that uses an 811a. in GG configuration.
>> Is this possible with reasonable gain? The amp appears to be built
>> well and I will probably buy it just for the parts before the week is
>> out but should I expect this thing to really work on 6M.
>>
>> Jimmie
>>
> I used an amp with 572Bs for many years. With an untuned input, output
> ran up to 600W PEP for 100 in.
> This suggests that the 811A would work but at some lower power.  What
> does the owner say about input and output power?
> John
>
============================
Power amplifiers in the past had untuned input circuits (see above)
because the driving transmitter (with valves in the output stage) had an
adjustable 'Pi-tank' for matching.
However nowadays most driving transmitters (usually transceivers) have a
solid state output stage requiring a resistive load of near 50 Ohms .
So when using these for driving a valve power amp ENSURE the amp has a
tuned input circuit . If not ,a matching circuit will have to be added.
Alternatively the valve power amp can be modified with a simple passive
input circuit comprising an 1:4 impedance transformer and a 200 ohms
non-inductive resistor capable of absorbing the driving power .

Frank   GM0CSZ / KN6WH


From -6813463134024995476
X-Google-Thread: fc2a5,4e09c61e6662ea0d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 03 May 2007 05:34:41 -0500
Date: Thu, 03 May 2007 11:35:27 -0400
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 1.5.0.10 (X11/20070305)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
```

```
Subject: Re: do YOU have this?
References: <1178167251.766482.200130@c35g2000hsg.googlegroups.com>
In-Reply-To: <1178167251.766482.200130@c35g2000hsg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <d6Kdnewrb45fJ6TbnZ2dnUVZ8tWnnZ2d@pipex.net>
Lines: 14
NNTP-Posting-Host: 81.178.99.47
X-Trace: sv3-NaMtinRD2ydxtGqaI1ycgARMJrl3wQhN69oWpw/
8sIhc28npPaKcT6f1saJbcJsYjNgNqp4R62eMX8N!
GP2PASk4N33UBY+jn54loXG6XtNYyvQPWXlWAH3ZfJv5luHNkMm4zBbF50+nAUnGbicMEx6vC2Au!
JhLXwY862NOzNbaA081SQ0+u
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13167

paulonjorge@yahoo.com wrote:
> Hello,
> ....Looking for a Magnetic-Loop article by PE1LKT which appeared in the
> May 2005 issue of Electron magazine by VERON. Any help/ideas much
> appreciated.
===========================
Paul , Yes I do have that mag.
Suggest you send me an e-mail ; then by return I'll send you the 2 page
article as an e-mail attachment

To e-mail me , remove the obvious abcxyz from my NG e-mail address.


Frank      GM0CSZ / KN6WH    north of Scotland



From 448042974048043872
X-Google-Thread: fc2a5,4e09c61e6662ea0d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out01b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!hwmnpeer01.phx!news.highwinds-
media.com!hw-filter.phx!newsfe12.phx.POSTED!53ab2750!not-for-mail
From: "The Shadow" <Repose@Zilch.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1178167251.766482.200130@c35g2000hsg.googlegroups.com>
In-Reply-To: <1178167251.766482.200130@c35g2000hsg.googlegroups.com>
Subject: Re: do YOU have this?
Lines: 16
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6000.16386
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.6000.16386
Message-ID: <4jm_h.220889$g24.72503@newsfe12.phx>
Date: Thu, 3 May 2007 07:27:11 -0700
NNTP-Posting-Host: 72.197.13.209
X-Complaints-To: admin@cox.net
X-Trace: newsfe12.phx 1178202432 72.197.13.209 (Thu, 03 May 2007 07:27:12 MST)
NNTP-Posting-Date: Thu, 03 May 2007 07:27:12 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13168


<paulonjorge@yahoo.com> wrote in message
news:1178167251.766482.200130@c35g2000hsg.googlegroups.com...
> Hello,
> ...Looking for a Magnetic-Loop article by PE1LKT which appeared in the
> May 2005 issue of Electron magazine by VERON. Any help/ideas much
> appreciated.
>
> cheers
> Paul
>
If all else fails -- why not send a letter with return postage?
PE1LKT address is at QRZ.com

Lamont




From -5813950175880707910
X-Google-Thread: fc2a5,941a5d578b07de9e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
From: "DJboutit" <Recordking@Hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <462988b1$0$1404$4c368faf@roadrunner.com>
Subject: Re: Check Out Radio Pirates Forum
Date: Thu, 3 May 2007 11:15:47 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Lines: 4
Message-ID: <463a04a4$0$4648$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
```

```
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13169
```

[URL=http://www.radiopirates.co.nr][IMG]http://i68.photobucket.com/albums/i11/DJboutit/RadioPirates.jpg[/IMG][/URL]

```
From -5367643949706966551
X-Google-Thread: fc2a5,7f6bb48ae151e713
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!c35g2000hsg.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6m amp
Date: 3 May 2007 10:28:10 -0700
Organization: http://groups.google.com
Lines: 16
Message-ID: <1178213290.031178.118200@c35g2000hsg.googlegroups.com>
References: <46385917$0$9905$4c368faf@roadrunner.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1178213291 968 127.0.0.1 (3 May 2007 17:28:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 3 May 2007 17:28:11 +0000 (UTC)
In-Reply-To: <46385917$0$9905$4c368faf@roadrunner.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: c35g2000hsg.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com rec.radio.amateur.homebrew:13170
```

On May 2, 5:26 am, "Jimmie D" <GFEN...@carolina.rr.com> wrote:

> a guy has a 6m amp for sale that uses an 811a. in GG configuration. Is this
> possible with reasonable gain? The amp appears to be built well and I will
> probably buy it just for the parts before the week is out but should I
> expect this thing to really work on 6M.

I looked through the QST indices and did not see any sign of an 811A being used on 6M in a construction article. Doesn't mean it couldn't be done. There was an article in the Jan '69 QST about modifying the SB-200 (two 572B's) for 6M that might have worked! The 572B would have similar parasitics to an 811A but might be a little less fussy... but two tubes would be harder than one (paralleled capacitance) to get to load up.

Tim.

```
From -5701577116845858984
X-Google-Thread: fc2a5,8d3823efde0ae903
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p77g2000hsh.googlegroups.com!not-for-
mail
From: bigorangebus <bigorangebus@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Advice on the art of radio design, local oscillators and filters etc
Date: 3 May 2007 11:08:22 -0700
Organization: http://groups.google.com
Lines: 27
Message-ID: <1178215702.725823.134840@p77g2000hsh.googlegroups.com>
References: <1177952390.073163.224680@y5g2000hsa.googlegroups.com>
   <Pine.NEB.4.64.0704301526040.14979@panix1.panix.com>
   <1177967634.548386.260420@q75g2000hsh.googlegroups.com>
   <Pine.NEB.4.64.0704301955040.23396@panix3.panix.com>
   <1178030390.416909.254700@e65g2000hsc.googlegroups.com>
   <4637a012$0$16402$88260bb3@free.teranews.com>
   <1178055406.027983.133080@n76g2000hsh.googlegroups.com>
   <4637dc8c$0$1468$88260bb3@free.teranews.com>
NNTP-Posting-Host: 88.109.120.207
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1178215703 8513 127.0.0.1 (3 May 2007 18:08:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 3 May 2007 18:08:23 +0000 (UTC)
In-Reply-To: <4637dc8c$0$1468$88260bb3@free.teranews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p77g2000hsh.googlegroups.com; posting-host=88.109.120.207;
   posting-account=GgpxRw0AAAAn_Rwf5JEWRtzcrHns9Fjj
Xref: g2news1.google.com rec.radio.amateur.homebrew:13171
```

hmmm number 1 rule...make sure you're not chasing problems faced by poor test equipment!

Well got rid of the scope probe and used a direct connection with some 50R coax, suddenly I can see the actual oscillator waveform (was completely killed by all 10 sets of probes I pulled out of the box, some are 100Mhz rated). So I now know when its oscillating or not. Also, the 200 odd MHz reading on the frequency meter was caused by an impedance mismatch doubling the frequency. With 50R input on the frequency counter and a suitable output resistor on my oscillator buffer amp I get the correct frequency.

Also I'd made a silly mistake which was throwing me (causing no low mixer output)...I connected a 455kHz IF can filter can across the output of the 612, but the impedance was too low, so it was just hammering the output. With a suitable 1.5kR ceramic filter I can see tuned carriers. (My excuse is that I was suckered into it by having used a similar tuned can on the input of the 612 in the past!)

So...a bit of progress. Still looking out for a good HP spec with 300Hz res band option!   Everytime I see a skip I look in hopefully....

Thanks to everyone who provided their thoughts on this...its helped a lot

```
From 8197507147590352753
X-Google-Thread: fc2a5,7f6bb48ae151e713
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out03a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx01.iad01.newshosting.com!newshosting.com!130.81.64.211.MISMATCH!
cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe01.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <46385917$0$9905$4c368faf@roadrunner.com>
<46392218.2060702@worldnet.att.net> <GKWdnRAyvMtWKKTbnZ2dnUVZ8tmhnZ2d@pipex.net>
Subject: Re: 6m amp
Lines: 41
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <i5r_h.20207$ZD3.12697@newsfe01.lga>
Date: Thu, 3 May 2007 15:53:19 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe01.lga 1178222030 68.0.230.122 (Thu, 03 May 2007 12:53:50 MST)
NNTP-Posting-Date: Thu, 03 May 2007 12:53:50 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13172
```

"Highland Ham" <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote in message news:GKWdnRAyvMtWKKTbnZ2dnUVZ8tmhnZ2d@pipex.net...
> John Siegel wrote:
>>
>>
>> Jimmie D wrote:
>>> a guy has a 6m amp for sale that uses an 811a. in GG configuration. Is

>>> this possible with reasonable gain? The amp appears to be built well and
>>> I will probably buy it just for the parts before the week is out but
>>> should I expect this thing to really work on 6M.
>>>
>>> Jimmie
>>>
>> I used an amp with 572Bs for many years. With an untuned input, output
>> ran up to 600W PEP for 100 in.
>> This suggests that the 811A would work but at some lower power. What
>> does the owner say about input and output power?
>> John
>>
> ============================
> Power amplifiers in the past had untuned input circuits (see above)
> because the driving transmitter (with valves in the output stage) had an
> adjustable 'Pi-tank' for matching.
> However nowadays most driving transmitters (usually transceivers) have a
> solid state output stage requiring a resistive load of near 50 Ohms .
> So when using these for driving a valve power amp ENSURE the amp has a
> tuned input circuit . If not ,a matching circuit will have to be added.
> Alternatively the valve power amp can be modified with a simple passive
> input circuit comprising an 1:4 impedance transformer and a 200 ohms
> non-inductive resistor capable of absorbing the driving power .
>
> Frank   GM0CSZ / KN6WH
Also worth noting:

The solid state rigs really like to see the Fly Wheel provided
by even a low Q circuit on the input; a class B amp. will
otherwise see an unsymmetrical load over portions of
each cycle for the driving signal .

From 6701019241023367938
X-Google-Thread: fc2a5,36eca3d9be7c476,start
X-Google-Thread: fcc6e,36eca3d9be7c476,start
X-Google-Attributes: gidfc2a5,gidfcc6e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!solaris.cc.vt.edu!
news.vt.edu!news.netins.net!not-for-mail
From: Tehrasha Darkon <darkon@netins.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Balun Construction :: Did I do this right?
Date: Fri, 4 May 2007 09:49:48 +0000 (UTC)
Organization: netINS InterNetNews site
Lines: 55
Message-ID: <f1evjs$420$1@news.netins.net>
NNTP-Posting-Host: desm-34-223.dsl.netins.net
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

X-Trace: news.netins.net 1178272188 4160 167.142.34.223 (4 May 2007 09:49:48 GMT)
X-Complaints-To: abuse@netins.net
NNTP-Posting-Date: Fri, 4 May 2007 09:49:48 +0000 (UTC)
User-Agent: Pan/0.127 (Eckythump)
Xref: g2news1.google.com rec.radio.amateur.homebrew:13173
rec.radio.amateur.antenna:40756

I am trying to construct a broadband 4:1 balun, and I want to double check if my understanding of the measurements is correct before I apply any real RF power.

I do not have access to an antenna analyzer, though I do have an HP4193A Vector Impedance meter and HP8753 Network Analyzer at my disposal.

First I wound the core in a bifilar manner with the leads being labeled A1,B1 and A2,B2. Then I measured the input impedance across A1 and A2 leaving B1 and B2 unconnected. Then placed a 200 ohm resistor across A1 and B2 while tying B1 and A2 together, and measured across A1 and A2 looking for 50 ohms (4:1).

I have also seen a reference to a K value for an indication of broadbandness. K = 1 - L(short)/L(open)

Here are my results...

8 bifilar turns of teflon coated AWG 16, on Type 43 core.

```
Mhz     A1-A2 Open Impedance      A1-A2  200 ohm Impedance
2         941 @ +59.5               51.4 @ 3.6  (51.3 +3.2j)
4        2080 @ -25.6               51.7 @ 3.2
7        4130 @ -74.2               52.1 @ 3.7
10       2900 @ -81.5               52.3 @ 4.4
14       1687 @ -84.8               52.4 @ 5.6
18       1180 @ -86.1               52.5 @ 6.8
21        966 @ -86.7               52.6 @ 7.7
25        781 @ -87.2               52.7 @ 9.1
28        682 @ -87.3               52.6 @ 10.2
30        630 @ -87.5               52.7 @ 10.8 (51.7 +9.9j)
-------------------------------------------------------------
50        356 @ -87.0               52.8 @ 18.6
54        327 @ -86.2               52.8 @ 20.4  (49.5 +18j)
```

Inductance Open = .93 uH
Inductance Short = 167 uH
K == .994

I did not intend to operate this balun above 10m, but thought it would be interesting to see the 6m data as well. And it looks like it would work fine there as well.

From what I have read, the open reactance should be at least 4 to 5 times as high as the normal drive impedence. In this case, it is over 12 times the 50 ohm input at 30Mhz and over 6 times at 54Mhz.

So did I do good? Am I way off?
How can I tell if/when core saturation will be a problem?

--Teh

From 5239384019394917314
X-Google-Thread: fc2a5,36eca3d9be7c476
X-Google-Thread: fcc6e,36eca3d9be7c476
X-Google-Attributes: gidfc2a5,gidfcc6e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 04 May 2007 11:34:39 -0500
From: Richard Clark <kb7qhc@comcast.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Balun Construction :: Did I do this right?
Date: Fri, 04 May 2007 09:33:59 -0700
Message-ID: <h0nm331sm0l3kt7v1eurrlaol1vnlg16mf@4ax.com>
References: <f1evjs$420$1@news.netins.net>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 52
NNTP-Posting-Host: 67.168.144.41
X-Trace: sv3-QS6/C8Ak7p8+LZJxEAIFBVv28HPtmuS4kDRklPPbRh0c+HahkbSP/
lOBGSzneWBg0D7ILsFvDjq2nK5!
ETcHpiH45PQW+odBEaIZd8Ew2o45ZdH+heyymZIAqK8Fu4/2La8wyZvl/Byn+SmvPkzN/YkciWuN!
nAC2p97EZRqdZMYJVsW6IW1pYrY=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13174
rec.radio.amateur.antenna:40768

On Fri, 4 May 2007 09:49:48 +0000 (UTC), Tehrasha Darkon
<darkon@netins.net> wrote:

>First I wound the core in a bifilar manner with the leads being labeled
>A1,B1 and A2,B2. Then I measured the input impedance across A1 and A2
>leaving B1 and B2 unconnected. Then placed a 200 ohm resistor across A1
>and B2 while tying B1 and A2 together, and measured across A1 and A2
>looking for 50 ohms (4:1).

>
>I have also seen a reference to a K value for an indication of
>broadbandness.   K = 1 - L(short)/L(open)
>
>Here are my results...
>
>8 bifilar turns of teflon coated AWG 16, on Type 43 core.

Hi Teh,

Your numbers suggest Type 75 instead, OR some other mechanism at work. Given your lead description above is fine, but could have been poorly implemented (in text, it is difficult to sort those things out).

>From what I have read, the open reactance should be at least 4 to 5 times
>as high as the normal drive impedence.   In this case, it is over 12
>times the 50 ohm input at 30Mhz and over 6 times at 54Mhz.
>
>So did I do good? Am I way off?
>How can I tell if/when core saturation will be a problem?

The ratio is as good as any. More important is how much power the BalUn can withstand. Your last question gets into the common misconception of "core saturation" which is typically a consideration for the winding linked magnetics not found in this application. BalUns are not classical power transformers that are so common to 60Hz AC.

The choke BalUn (which is what you are building) employs the lossy resistance of Ferrite to establish the isolation you want in a BalUn. There may be some reactance achieved along the way, but it is not usually a design goal and these class of Ferrites would be a poor choice in achieving that. If you note that your data describes a very, very broad curve; it demonstrates a very poor Q which is its principle attraction (broadbandedness).

As a simple test, pass one very short wire through one bead and measure its Z (give us a complete description of resistance AND reactance) over frequency. This will confirm what type material you are using and will remove unnecessary complexity. Type 43 should show a frequency peak roughly ten times above your current data's frequency peak.

73's
Richard Clark, KB7QHC

```
From 3943248136626634612
X-Google-Thread: fc2a5,36eca3d9be7c476
X-Google-Thread: fcc6e,36eca3d9be7c476
X-Google-Attributes: gidfc2a5,gidfcc6e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
```

news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 04 May 2007 12:32:05 -0500
From: Richard Clark <kb7qhc@comcast.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Balun Construction :: Did I do this right?
Date: Fri, 04 May 2007 10:31:25 -0700
Message-ID: <ecrm33tedj46hh5vtcvr72qdk92k378qmi@4ax.com>
References: <f1evjs$420$1@news.netins.net>
<h0nm331sm0l3kt7v1eurrlaol1vnlg16mf@4ax.com>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 13
NNTP-Posting-Host: 67.168.144.41
X-Trace: sv3-C93fA/Ff5cRLK6T9/HVNtxZ/NxQ5k4C+yar8RY75ZawsmhlPDRT/
QX7WD2UYMdrPja2slLcYCDU8H/7!t5meMEtnrzHeVDzvYh4B77NQps7OohKGHh/
DRzWzJpH1OTzwV8RH1Hn6tBbD1QPOyT8VaVHtgPC2!C/qfpk07qoxdfugpeXr2FOSTDuI=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13175
rec.radio.amateur.antenna:40773

On Fri, 04 May 2007 09:33:59 -0700, Richard Clark <kb7qhc@comcast.net>
wrote:

>Type 43 should show
>a frequency peak roughly ten times above your current data's frequency
>peak.

This may have been obscure. The peak of isolation (as revealed in
common mode resistance) should occur in the low VHF region, not the
low HF.

73's
Richard Clark, KB7QHC

From -5325143938355873O1
X-Google-Thread: fc2a5,d6aa916e59648904,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w5g2000hsg.googlegroups.com!not-for-
mail
From: "Gian, I7SWX" <i7swx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: PA3AKE H-MODE MIXER MEASUREMENT UPDATE
Date: 4 May 2007 15:48:29 -0700
Organization: http://groups.google.com

```
Lines: 68
Message-ID: <1178318909.657091.198200@w5g2000hsg.googlegroups.com>
NNTP-Posting-Host: 82.49.21.232
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1178318910 19587 127.0.0.1 (4 May 2007 22:48:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 4 May 2007 22:48:30 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; HbTools 4.8.4),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: w5g2000hsg.googlegroups.com; posting-host=82.49.21.232;
   posting-account=UdnmUQ0AAABqWSw2iezMYLt5SVbNOulx
Xref: g2news1.google.com rec.radio.amateur.homebrew:13176
```

Hi all,

I like to inform you that Martein Bakker, PA3AKE, has updated his web page reporting his measurement on the H-Mode Mixer. The update is relative to measurement done on the I7SWX 2T H-Mode Mixer using the FSA3157 and the original 2T version with Pericom PI5C3125 fast bus switch.

A major comment reported by Martein on the 2T HMM version with FSA3157 is:

"2 transformer version is an interesting branch in H-Mode mixer development. Most impressive is the spur reduction possible with home made transformers with this configuration in combination with the FSA3157 switches."

PA3AKE web page is: http://www.xs4all.nl/~martein/pa3ake/hmode/

Below is reported the Contents list of all measurements done and comments reported by Martein. I am sure all those that have visited and will visit his page will find one of the most complete reports done on the important H-Mode Mixer developed by Colin Horrabine, G3SBI.

73 and enjoy the reading

Gian
I7SWX

H-Mode mixer Overview

Contents

1.   Introduction
2.   IP3 measurement / limitations
o   Signal Generators and Hybrid Combiner
o   Post Mixer Roofing Filter

  - Pre Mixer Band-pass Filters
  - Mixer Transformers
3. Fairchild switches
  - FSAV430
  - FSAV450
  - FSAV330
  - FSAV332
  - FST3125
  - NC7SZ384
  - FSA3157
  - FSA3157 + 74AC04
4. Mini-Circuits transformers
  - TT4-1A
  - T4-1
  - ADTT4-1
  - T1-1T
  - ADTT1-1
  - ADTT1-6
  - ADT1-6T
  - TT1-6
  - T1-6T
  - ADT1-1WT
5. Homebrew transformers
  - FT37-43 toriod
  - BN43-2402 2-Transfomer H-Mode mixer
6. Mixer symmetry
7. Conclusion
8. Acknowledgments
9. Appendix

AD9951 DDS spurs on 15M

```
From -8504033346142531319
X-Google-Thread: 108122,b71e70f3d9d56946,start
X-Google-Thread: fc2a5,b71e70f3d9d56946,start
X-Google-Thread: 115730,b71e70f3d9d56946,start
X-Google-Thread: 1131b0,b71e70f3d9d56946,start
X-Google-Attributes: gid108122,gidfc2a5,gid115730,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 04 May 2007 19:17:46 -0500
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,sci.electronics.equipment,s
ci.electronics.repair
Subject: MFJ-259B coils
Date: Fri, 4 May 2007 20:17:45 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
```

```
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <xNmdncePwa23UKbbnZ2dnUVZ_sudnZ2d@comcast.com>
Lines: 15
NNTP-Posting-Host: 71.199.254.204
X-Trace: sv3-fXdcefqujRVRkHaKyeguiOBkbYCj1qt7cxYHT3v+24F8Ncb+iX2R2agjCuRqF/
JL5e8GHceLxGh2p6S!
7BC8W795dX4HyCo5jp6qTcMB9jxzOp7g7tO+lU6t7Y+pYuXRMDuvfJDqvBxijwSfC1/ESBHsJED/!
PyH3C0T49IQsx4AitOCPB62qGvZpv8o=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.equipment:11961
rec.radio.amateur.homebrew:13177 sci.electronics.equipment:8429
sci.electronics.repair:65821
```

Anybody happen to have the details of the dipper coils for the MFJ-259B Antenna Analyzer? Mine have become lost in a garage/workshop cleanout that went awry.

Need number of turns, coil diameter, coil length if possible. Think I can remember the rest of the details well enough to rebuild them.

Thanks for your help
--
Dave M
MasonDG44 at comcast dot net (Just substitute the appropriate characters in the address)

Life is like a roll of toilet paper; the closer to the end, the faster it goes.

```
From 1514570709461405106
X-Google-Thread: fc2a5,37190e82bed2a18a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Computer Grade
Date: 5 May 2007 04:32:02 -0700
Organization: http://groups.google.com
Lines: 30
Message-ID: <1178364722.211998.171200@q75g2000hsh.googlegroups.com>
References: <133bo782iag5q70@corp.supernews.com>
   <f1abj9$l33$1@eskinews.eskimo.com>
   <qB4_h.30513$n_.3743@attbi_s21>
NNTP-Posting-Host: 63.73.218.131
```

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1178364723 5547 127.0.0.1 (5 May 2007 11:32:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 5 May 2007 11:32:03 +0000 (UTC)
In-Reply-To: <qB4_h.30513$n_.3743@attbi_s21>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.2.1) Gecko/20030225,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q75g2000hsh.googlegroups.com; posting-host=63.73.218.131;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com rec.radio.amateur.homebrew:13178

William E. Sabin wrote:

> "Computer Grade Capacitor" might possibly refer to the low value of internal series resistance and inductance which are important parameters in switching regulator power supplies.

Well, maybe "low inductance" by 1960's standards. A computer power supply would have to filter 60Hz, or maybe 400Hz ripple then. Yes, there were switching supplies back in the 60's/70's too, but then switching frequencies were much much lower (think about it: they used 2N3055's or their predecessors, transistors that take a millenium to turn off!) than typical switching supplies today.

Modern low-ESR low-inductance caps are undoubtedly superior if you're designing 150kHz switching supplies today. Heck, many of the modern regulator chips will only be stable if they are operated into capacitors that have an ESR above a minimum and below a maximum number. There's a reason why there are 87 different 220uF 6.3V capacitors in the Digikey catalog :-).

Clearly for their purposes, surplus 2N3055's and old big-can "computer grade capacitors" can be put to very good use in many ham power supplies. Make sure you get some LM723's too, a very versatile part that modern parts (each good in their own narrow niche) have not completely replaced yet!

(I did lament here on Usenet when the CA3046 was discontinued a year or two ago... a shame! But the LM723 will outlive it!)

Tim.

From -8002233147121454183
X-Google-Thread: fc2a5,36eca3d9be7c476
X-Google-Thread: fcc6e,36eca3d9be7c476
X-Google-Attributes: gidfc2a5,gidfcc6e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!

```
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 05 May 2007 08:29:08 -0500
From: Danny Richardson <n_group@k6mhe.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Balun Construction :: Did I do this right?
Date: Sat, 05 May 2007 06:29:25 -0700
Message-ID: <3f1p33hp5ramm5m47p4uhiej62b27irq0o@4ax.com>
References: <f1evjs$420$1@news.netins.net>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 64
NNTP-Posting-Host: 76.102.205.36
X-Trace: sv3-5KRQT/iUq9LTEW+5u10Jn2Yi9YmzMGGkA5vvbCjEh6/glwML/bYm90ByJEoUtfskYIf/
HU5E7FzkUu0!
3qwrLzrcAEVWVWxQUbZXWGkSIaxeddIxJ9pxwQQqAsAxGLPm7xsW5ZiUA+HPuzsWaVvt13jhpV8x!
HbR+OCPOqp86b/zcdKJI/3/hRo0=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13179
rec.radio.amateur.antenna:40803

On Fri, 4 May 2007 09:49:48 +0000 (UTC), Tehrasha Darkon
<darkon@netins.net> wrote:

>I am trying to construct a broadband 4:1 balun, and I want to double
>check if my understanding of the measurements is correct before I apply
>any real RF power.
>
>I do not have access to an antenna analyzer, though I do have an HP4193A
>Vector Impedance meter and HP8753 Network Analyzer at my disposal.
>
>First I wound the core in a bifilar manner with the leads being labeled
>A1,B1 and A2,B2.  Then I measured the input impedance across A1 and A2
>leaving B1 and B2 unconnected.  Then placed a 200 ohm resistor across A1
>and B2 while tying B1 and A2 together, and measured across A1 and A2
>looking for 50 ohms (4:1).
>
>I have also seen a reference to a K value for an indication of
>broadbandness.   K = 1 - L(short)/L(open)
>
>Here are my results...
>
>8 bifilar turns of teflon coated AWG 16, on Type 43 core.
>
>Mhz     A1-A2 Open Impedance      A1-A2  200 ohm Impedance
>2         941 @ +59.5               51.4 @ 3.6  (51.3 +3.2j)
>4        2080 @ -25.6               51.7 @ 3.2
```

```
>7        4130 @ -74.2              52.1 @ 3.7
>10       2900 @ -81.5              52.3 @ 4.4
>14       1687 @ -84.8              52.4 @ 5.6
>18       1180 @ -86.1              52.5 @ 6.8
>21        966 @ -86.7              52.6 @ 7.7
>25        781 @ -87.2              52.7 @ 9.1
>28        682 @ -87.3              52.6 @ 10.2
>30        630 @ -87.5              52.7 @ 10.8 (51.7 +9.9j)
>-------------------------------------------------------------
>50        356 @ -87.0              52.8 @ 18.6
>54        327 @ -86.2              52.8 @ 20.4  (49.5 +18j)
>
>Inductance Open  = .93 uH
>Inductance Short = 167 uH
>K == .994
>
>I did not intend to operate this balun above 10m, but thought it would be
>interesting to see the 6m data as well.  And it looks like it would work
>fine there as well.
>
>From what I have read, the open reactance should be at least 4 to 5 times
>as high as the normal drive impedence.   In this case, it is over 12
>times the 50 ohm input at 30Mhz and over 6 times at 54Mhz.
>
>So did I do good?  Am I way off?
>How can I tell if/when core saturation will be a problem?
>
>--Teh
>
>
>
```

As you have a vector impedance meter have you measured the common mode
(blocking) impedance? From the description your balun is a voltage
balun that are notorious for having poor common mode impedances.

Danny, K6MHE

From 2126578634138175104
X-Google-Thread: fc2a5,37190e82bed2a18a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!news.tele.dk!news.tele.dk!
small.news.tele.dk!newsfeed1.swip.net!swipnet!newsfeed1.funet.fi!
newsfeed3.funet.fi!newsfeeds.funet.fi!feeder2.news.saunalahti.fi!
reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Computer Grade
Message-ID: <ao0p33h47ikukedibg1jair8l4olirpo3d@4ax.com>
References: <133bo782iag5q70@corp.supernews.com>

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<f1abj9$l33$1@eskinews.eskimo.com> <qB4_h.30513$n_.3743@attbi_s21>
<1178364722.211998.171200@q75g2000hsh.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 40
Date: Sat, 05 May 2007 18:35:57 +0300
NNTP-Posting-Host: 195.197.6.111
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1178379274 195.197.6.111 (Sat, 05 May 2007
18:34:34 EEST)
NNTP-Posting-Date: Sat, 05 May 2007 18:34:34 EEST
Organization: Saunalahti Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:13180

On 5 May 2007 04:32:02 -0700, Tim Shoppa <shoppa@trailing-edge.com>
wrote:

>William E. Sabin wrote:
>> "Computer Grade Capacitor" might possibly refer to the low value of internal
>> series resistance and inductance which are important parameters in switching
>> regulator power supplies.
>
>Well, maybe "low inductance" by 1960's standards. A computer power
>supply would have to filter 60Hz, or maybe 400Hz ripple then.

Apart from aviation, the last time the last time I heard someone using
400 Hz for powering computers was in the early 1960's with a 50/400 Hz
motor/generator in the basement, feeding the anode supply of some tube
computers :-), in order to reduce the transformer and filter capacity
size.

>Yes,
>there were switching supplies back in the 60's/70's too, but then
>switching frequencies were much much lower (think about it: they used
>2N3055's or their predecessors, transistors that take a millenium to
>turn off!) than typical switching supplies today.

Outside TV EHT generators, primary switching power supplies were rare
in those days, simply because bipolars could not handle the rectified
mains voltage in those days, not at least with any significant
current, so linear power supplies was the norm in those days.

>Clearly for their purposes, surplus 2N3055's and old big-can "computer
>grade capacitors" can be put to very good use in many ham power
>supplies. Make sure you get some LM723's too, a very versatile part
>that modern parts (each good in their own narrow niche) have not
>completely replaced yet!

My guess is that amateur radio is the last application in which linear
power supplies are used, since it is much easier to make a low noise
linear power supply than a switcher.
```

Paul OH3LWR

From -7101905993629980397
X-Google-Thread: fc2a5,36eca3d9be7c476
X-Google-Thread: fcc6e,36eca3d9be7c476
X-Google-Attributes: gidfc2a5,gidfcc6e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!solaris.cc.vt.edu!
news.vt.edu!news.netins.net!not-for-mail
From: Tehrasha Darkon <darkon@netins.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Balun Construction :: Did I do this right?
Date: Sat, 5 May 2007 19:13:18 +0000 (UTC)
Organization: netINS InterNetNews site
Lines: 17
Message-ID: <f1il0e$6bf$1@news.netins.net>
References: <f1evjs$420$1@news.netins.net>
<3f1p33hp5ramm5m47p4uhiej62b27irq0o@4ax.com>
NNTP-Posting-Host: desm-34-223.dsl.netins.net
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
X-Trace: news.netins.net 1178392398 6511 167.142.34.223 (5 May 2007 19:13:18 GMT)
X-Complaints-To: abuse@netins.net
NNTP-Posting-Date: Sat, 5 May 2007 19:13:18 +0000 (UTC)
User-Agent: Pan/0.127 (Eckythump)
Xref: g2news1.google.com rec.radio.amateur.homebrew:13181
rec.radio.amateur.antenna:40813

On Sat, 05 May 2007 06:29:25 -0700, Danny Richardson wrote:

> As you have a vector impedance meter have you measured the common mode
> (blocking) impedance? From the description your balun is a voltage balun
> that are notorious for having poor common mode impedances.
>
> Danny, K6MHE

Yes, the balun is a 4:1 voltage type. I have not measured the common
mode inductance yet. But in this case, the application is for a Carolina
Windom which requires common mode current to make part of the feedline
act as a radiator.

The feedline will be choked with a 1:1 current balun at the proper
distance. That is next on the list to be built.

--Teh

From -7910150839015548847
X-Google-Thread: fc2a5,36eca3d9be7c476

```
X-Google-Thread: fcc6e,36eca3d9be7c476
X-Google-Attributes: gidfc2a5,gidfcc6e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 05 May 2007 14:26:05 -0500
From: Richard Clark <kb7qhc@comcast.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Balun Construction :: Did I do this right?
Date: Sat, 05 May 2007 12:25:25 -0700
Message-ID: <tfmp331167vreio8v47a90gtjnc0nutc4r@4ax.com>
References: <f1evjs$420$1@news.netins.net>
<3f1p33hp5ramm5m47p4uhiej62b27irq0o@4ax.com> <f1il0e$6bf$1@news.netins.net>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
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Content-Transfer-Encoding: 7bit
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TYfad5sSfS9WuaiQ/0squc6f+I8=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13182
rec.radio.amateur.antenna:40814

On Sat, 5 May 2007 19:13:18 +0000 (UTC), Tehrasha Darkon
<darkon@netins.net> wrote:

>Yes, the balun is a 4:1 voltage type.

Hi Teh,

Then, yes, you certainly have to worry about core saturation and
failure.

73's
Richard Clark, KB7QHC


From 5130656638126407033
X-Google-Thread: fc2a5,36eca3d9be7c476
X-Google-Thread: fcc6e,36eca3d9be7c476
X-Google-Attributes: gidfc2a5,gidfcc6e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
```

nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 05 May 2007 14:57:11 -0500
From: Danny Richardson <n_group@k6mhe.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Balun Construction :: Did I do this right?
Date: Sat, 05 May 2007 12:57:27 -0700
Message-ID: <68op3394tfsqegqhvbjuvllilmf8q8kejj@4ax.com>
References: <f1evjs$420$1@news.netins.net>
<3f1p33hp5ramm5m47p4uhiej62b27irq0o@4ax.com> <f1il0e$6bf$1@news.netins.net>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 22
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iRXK1CBcgsMQFjc8McoOy+d/UPU=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13183
rec.radio.amateur.antenna:40816

On Sat, 5 May 2007 19:13:18 +0000 (UTC), Tehrasha Darkon
<darkon@netins.net> wrote:

>Yes, the balun is a 4:1 voltage type. I have not measured the common
>mode inductance yet. But in this case, the application is for a Carolina
>Windom which requires common mode current to make part of the feedline
>act as a radiator.
>
>The feedline will be choked with a 1:1 current balun at the proper
>distance. That is next on the list to be built.
>
>--Teh

Okay, then in that case be sure to check the common mode impedance on
your current balun. Many are less than 1K and, for good operation
you'll need more than that. The higher the better.

Danny, K6MHE

From 9116613699286975633
X-Google-Thread: fc2a5,36eca3d9be7c476
X-Google-Thread: fcc6e,36eca3d9be7c476
X-Google-Attributes: gidfc2a5,gidfcc6e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!solaris.cc.vt.edu!
news.vt.edu!news.netins.net!not-for-mail
From: Tehrasha Darkon <darkon@netins.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Balun Construction :: Did I do this right?
Date: Sat, 5 May 2007 20:00:42 +0000 (UTC)
Organization: netINS InterNetNews site
Lines: 58
Message-ID: <f1inpa$6bf$2@news.netins.net>
References: <f1evjs$420$1@news.netins.net>
<h0nm331sm0l3kt7v1eurrlaol1vnlg16mf@4ax.com>
NNTP-Posting-Host: desm-34-223.dsl.netins.net
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
X-Trace: news.netins.net 1178395242 6511 167.142.34.223 (5 May 2007 20:00:42 GMT)
X-Complaints-To: abuse@netins.net
NNTP-Posting-Date: Sat, 5 May 2007 20:00:42 +0000 (UTC)
User-Agent: Pan/0.127 (Eckythump)
Xref: g2news1.google.com rec.radio.amateur.homebrew:13184
rec.radio.amateur.antenna:40817

On Fri, 04 May 2007 09:33:59 -0700, Richard Clark wrote:

> As a simple test, pass one very short wire through one bead and measure
> its Z (give us a complete description of resistance AND reactance) over
> frequency. This will confirm what type material you are using and will
> remove unnecessary complexity. Type 43 should show a frequency peak
> roughly ten times above your current data's frequency peak.
>
> 73's
> Richard Clark, KB7QHC

I did find out that part of my test setup was flawed.
My adapter from the VIM probe to the coil did very naughty things.
The new setup completely isolates the balun from any surrounding
influences and stray L/C is minimized.

Testing the bead material properties.
The beads I am using are supposed to be Type 43, DigiKey #240-2119-ND
aka Steward 28B1250-000. They are .875" high, 1.25" OD and .75" ID.

Using piece of wire 3" long bent into a U shape. Measurements are
Magnitude and Angle of the vector.

```
Freq.
(MHz)        Bare Wire         Single Bead         Two Beads
```

.5	.58 @ 29.0	4.62 @ 68.2	9.0 @ 70.3
1	.74 @ 46.0	8.09 @ 70.2	15.8 @ 71.0
2	1.15 @ 62.1	14.36 @ 70.2	28.0 @ 70.4
4	2.08 @ 74.7	25.30 @ 67.0	49.6 @ 66.3
8	4.04 @ 81.8	42.00 @ 61.6	81.7 @ 60.3
16	8.01 @ 85.5	68.50 @ 56.4	132.7 @ 54.0
32	15.93 @ 87.3	105.40 @ 46.9	204.0 @ 42.3
64	31.80 @ 88.4	145.10 @ 37.4	279.0 @ 27.9
110	56.30 @ 89.0	181.00 @ 30.6	333.0 @ 13.2

Remeasuring the Balun.
With the new setup, there is not a big difference in the terminated measurements, but the peak in the open impedance of the primary winding went from ~7 Mhz up to 11.4 Mhz.

Freq. (MHz)	Open Inductance	200 Ohm Termination
.5	275 @ 74	49.6 @ 9.2
1	491 @ 72	51.1 @ 5.4
2	897 @ 69	51.8 @ 3.8
4	1731 @ 59	52.0 @ 3.4
8	3710 @ 31	52.4 @ 4.4
16	3460 @ -51	52.6 @ 7.2
32	1261 @ -78	51.9 @ 14.4
64	591 @ -84	51.2 @ 35.7
110	291 @ -83	86.8 @ 76.7

Peak 11.4 Mhz 4850 @ -9.0

--Teh

From 492184584442000232
X-Google-Thread: fc2a5,37190e82bed2a18a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n59g2000hsh.googlegroups.com!not-for-mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Computer Grade
Date: 5 May 2007 13:37:53 -0700
Organization: http://groups.google.com
Lines: 93
Message-ID: <1178397473.087744.111990@n59g2000hsh.googlegroups.com>
References: <133bo782iag5q70@corp.supernews.com>
<f1abj9$l33$1@eskinews.eskimo.com>
<qB4_h.30513$n_.3743@attbi_s21>
<1178364722.211998.171200@q75g2000hsh.googlegroups.com>
<ao0p33h47ikukedibg1jair8l4olirpo3d@4ax.com>
NNTP-Posting-Host: 207.200.116.11

```
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1178397473 25367 127.0.0.1 (5 May 2007 20:37:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 5 May 2007 20:37:53 +0000 (UTC)
In-Reply-To: <ao0p33h47ikukedibg1jair8l4olirpo3d@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-te07.proxy.aol.com[CFC87223] (Prism/1.2.0), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: n59g2000hsh.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com rec.radio.amateur.homebrew:13185
```

From: Paul Keinanen <keina...@sci.fi> on Sat, 05 May 2007 18:35:57 +0300

```
>On 5 May 2007 04:32:02 -0700, Tim Shoppa <sho...@trailing-edge.com> wrote:
>>William E. Sabin wrote:

>>> "Computer Grade Capacitor" might possibly refer to the low value of internal
>>> series resistance and inductance which are important parameters in switching
>>> regulator power supplies.
>
>>Well, maybe "low inductance" by 1960's standards. A computer power
>>supply would have to filter 60Hz, or maybe 400Hz ripple then.
>
>Apart from aviation, the last time the last time I heard someone using
>400 Hz for powering computers was in the early 1960's with a 50/400 Hz
>motor/generator in the basement, feeding the anode supply of some tube
>computers :-), in order to reduce the transformer and filter capacity
>size.
```

Large electrolytics labeled "computer grade" were quite common in low-voltage supplies required for digital electronics from the early 1960s and into the next three decades. Once the TTL family of digital ICs "took off" all digital electronics seemed to require 5 VDC supplies. :-)

Since the early TTLs were - relatively speaking - power-hungry, the supply current had to be much higher than for old tube architecture equipment. With that was the requirement for filtering the raw DC from (nearly-always) full-wave rectification resulting in 120 Hz ripple.
The end result was a market need for higher-Farad electrolytics.
Low-ESR in those large-capacity electrolytics was, in my opinion, less of a problem for switchers than it was to cut down on the internal heat dissipated by the ripple current in that ESR.

>>Yes,
>>there were switching supplies back in the 60's/70's too, but then
>>switching frequencies were much much lower (think about it: they used
>>2N3055's or their predecessors, transistors that take a millenium to
>>turn off!) than typical switching supplies today.
>
>Outside TV EHT generators, primary switching power supplies were rare
>in those days, simply because bipolars could not handle the rectified
>mains voltage in those days, not at least with any significant
>current, so linear power supplies was the norm in those days.

I agree with that, Paul. The switch-mode supplies did not increase in either market quantity or acceptance in OEM equipment until the late 1970s. One frequently-overlooked example is the small supply (a switcher) used in the Apple][personal computer. Well over a quarter million made and sold to power a small computer using (then) legacy TTL devices. While some CP/M-based PCs existed using switching supplies, other PC makers saw the advantage and started using switchers also, even the "IBM" that became the norm for PCs after 1980. While most switching supplies were still radiating RFI into the late 1990s, that did not trouble PCs operation. After multi-millions of PCs have been made with switchers for power supplies in over two decades, it would seem (to many) that "switchers have always been used." :-)

>>Clearly for their purposes, surplus 2N3055's and old big-can "computer
>>grade capacitors" can be put to very good use in many ham power
>>supplies. Make sure you get some LM723's too, a very versatile part
>>that modern parts (each good in their own narrow niche) have not
>>completely replaced yet!
>
>My guess is that amateur radio is the last application in which linear
>power supplies are used, since it is much easier to make a low noise
>linear power supply than a switcher.

Much SIMPLER. :-) Today a typical under-1-Ampere supply consists of an AC transformer, bridge rectifier, one filter capacitor, and one three-terminal regulator. Positive or negative polarity, no real change in components. Guaranteed voltage regulation and the legacy three-terminal regulator ("7805" for +5 VDC output) has over-current shut-down. Spec sheets on three-terminal regulators include maximum internal noise generation (very low) which few bother to notice. :-)

Excess power dissipation in a linear regulator? Actually not much. A typical +5 VDC supply for 0.5 A uses a typical 8.5 V average raw DC input and a three-terminal regulator drops about 3.5 V average for a 1.75 W average loss converted to heat. The TO-220 cases of three-terminal regulators are built to handle that (and a bit more) if mounted to a "heat sink" of copper-one-side PCB. Three-terminal regulators are entering their fourth decade of existance and couldn't be more convenient to use for a defined, regulated output voltage.

73, Len AF6AY

From 8721610008557016541
X-Google-Thread: fc2a5,36eca3d9be7c476
X-Google-Thread: fcc6e,36eca3d9be7c476
X-Google-Attributes: gidfc2a5,gidfcc6e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 05 May 2007 16:58:02 -0500
From: Danny Richardson <n_group@k6mhe.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Balun Construction :: Did I do this right?
Date: Sat, 05 May 2007 14:58:19 -0700
Message-ID: <p3vp33l9ifi0h20rcjo7b6csg7signmd5u@4ax.com>
References: <f1evjs$420$1@news.netins.net>
<h0nm331sm0l3kt7v1eurrlaol1vnlg16mf@4ax.com> <f1inpa$6bf$2@news.netins.net>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 80
NNTP-Posting-Host: 76.102.205.36
X-Trace: sv3-EoDxkXO/MdzmIYtYWW5oGij8atfs7whbJXOlHrM+nqmdjVesHL8TNa/
BWLgXMwAl8IPRJZ+aFsXprUt!/
W2A6GJa2+bTmUMQy6jaTdgVVU+TAKdrG7x8MBflCJ4zwAjymrgaiUrjxZxe+ntJ/bcK7olaFYAn!
rmf7nyfsz9ZJ30neglQBKPBcCGk=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13186
rec.radio.amateur.antenna:40821

On Sat, 5 May 2007 20:00:42 +0000 (UTC), Tehrasha Darkon
<darkon@netins.net> wrote:

>On Fri, 04 May 2007 09:33:59 -0700, Richard Clark wrote:
>
>> As a simple test, pass one very short wire through one bead and measure
>> its Z (give us a complete description of resistance AND reactance) over
>> frequency. This will confirm what type material you are using and will
>> remove unnecessary complexity. Type 43 should show a frequency peak
>> roughly ten times above your current data's frequency peak.
>>
>> 73's

```
>> Richard Clark, KB7QHC
>
>
>I did find out that part of my test setup was flawed.
>My adapter from the VIM probe to the coil did very naughty things.
>The new setup completely isolates the balun from any surrounding
>influences and stray L/C is minimized.
>
>Testing the bead material properties.
>The beads I am using are supposed to be Type 43, DigiKey #240-2119-ND
>aka  Steward 28B1250-000.  They are .875" high, 1.25" OD and .75" ID.
>
>Using piece of wire 3" long bent into a U shape. Measurements are
>Magnitude and Angle of the vector.
>
>Freq.
>(MHz)         Bare Wire         Single Bead         Two Beads
>.5             .58 @ 29.0        4.62 @ 68.2        9.0 @ 70.3
>1              .74 @ 46.0        8.09 @ 70.2       15.8 @ 71.0
>2             1.15 @ 62.1       14.36 @ 70.2       28.0 @ 70.4
>4             2.08 @ 74.7       25.30 @ 67.0       49.6 @ 66.3
>8             4.04 @ 81.8       42.00 @ 61.6       81.7 @ 60.3
>16            8.01 @ 85.5       68.50 @ 56.4      132.7 @ 54.0
>32           15.93 @ 87.3      105.40 @ 46.9      204.0 @ 42.3
>64           31.80 @ 88.4      145.10 @ 37.4      279.0 @ 27.9
>110          56.30 @ 89.0      181.00 @ 30.6      333.0 @ 13.2
>
>
>Remeasuring the Balun.
>With the new setup, there is not a big difference in the terminated
>measurements, but the peak in the open impedance of the primary winding
>went from ~7 Mhz up to 11.4 Mhz.
>
>
>Freq.
>(MHz)         Open Inductance       200 Ohm Termination
>.5               275 @  74              49.6 @  9.2
>1                491 @  72              51.1 @  5.4
>2                897 @  69              51.8 @  3.8
>4               1731 @  59              52.0 @  3.4
>8               3710 @  31              52.4 @  4.4
>16              3460 @ -51              52.6 @  7.2
>32              1261 @ -78              51.9 @ 14.4
>64               591 @ -84              51.2 @ 35.7
>110              291 @ -83              86.8 @ 76.7
>
>Peak  11.4 Mhz  4850 @ -9.0
>
>--Teh
```

Teh,

After reading you previous response as the your application I have

some real doubts as to the efficiency and power handling capability of
you unit.

I suggest you may find some very useful information at:

http://audiosystemsgroup.com/RFI-Ham.pdf

The section on baluns begins on page 24, however, my power concern is
addressed on page 26.

I think you find that information valuable.

73,
Danny, K6MHE

```
From -3743883677520976007
X-Google-Thread: fc2a5,37190e82bed2a18a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news*.tds.net.MISMATCH!
newspeer.tds.net!216.170.153.140.MISMATCH!newsreading01.news.tds.net!53ab2750!not-
for-mail
From: "John, N9JG" <john@Xremove.MeYgotwals.com>
Newsgroups: rec.radio.amateur.homebrew
References: <133bo782iag5q70@corp.supernews.com>
<f1abj9$l33$1@eskinews.eskimo.com>   <qB4_h.30513$n_.3743@attbi_s21>
<1178364722.211998.171200@q75g2000hsh.googlegroups.com>
Subject: Re: Computer Grade
Lines: 65
Organization: CLM ARRL
MIME-Version: 1.0
Content-Type: multipart/alternative;
     boundary="----=_NextPart_000_0025_01C78F4C.A9ADBAD0"
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <Xx8%h.34218$G23.10262@newsreading01.news.tds.net>
Date: Sat, 05 May 2007 23:36:23 GMT
NNTP-Posting-Host: 69.130.136.129
X-Complaints-To: news@tds.net
X-Trace: newsreading01.news.tds.net 1178408183 69.130.136.129 (Sat, 05 May 2007
18:36:23 CDT)
NNTP-Posting-Date: Sat, 05 May 2007 18:36:23 CDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13187
```

This is a multi-part message in MIME format.

```
------=_NextPart_000_0025_01C78F4C.A9ADBAD0
Content-Type: text/plain;
```

```
     charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Yes, that genius Bob Widlar lives on through the products he designed.
http://www.sfgate.com/cgi-bin/article.cgi?file=3D/chronicle/archive/1999/=
02/01/BU36634.DTL

"Tim Shoppa" <shoppa@trailing-edge.com> wrote in message =
news:1178364722.211998.171200@q75g2000hsh.googlegroups.com...
> William E. Sabin wrote:
[snip]
>=20
> (I did lament here on Usenet when the CA3046 was discontinued a year
> or two ago... a shame! But the LM723 will outlive it!)
>=20
> Tim.
>
------=_NextPart_000_0025_01C78F4C.A9ADBAD0
Content-Type: text/html;
     charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
<HTML><HEAD>
<META http-equiv=3DContent-Type content=3D"text/html; =
charset=3Diso-8859-1">
<META content=3D"MSHTML 6.00.6000.16414" name=3DGENERATOR>
<STYLE></STYLE>
</HEAD>
<BODY>
<DIV><FONT face=3DArial size=3D2>Yes, that genius Bob Widlar lives on =
through the=20
products he designed.</FONT></DIV>
<DIV><A=20
href=3D"http://www.sfgate.com/cgi-bin/article.cgi?file=3D/chronicle/archi=
ve/1999/02/01/BU36634.DTL"><FONT=20
face=3DArial=20
size=3D2>http://www.sfgate.com/cgi-bin/article.cgi?file=3D/chronicle/arch=
ive/1999/02/01/BU36634.DTL</FONT></A></DIV>
<DIV>&nbsp;</DIV>
<DIV><FONT face=3DArial size=3D2>"Tim Shoppa" &lt;</FONT><A=20
href=3D"mailto:shoppa@trailing-edge.com"><FONT face=3DArial=20
size=3D2>shoppa@trailing-edge.com</FONT></A><FONT face=3DArial =
size=3D2>&gt; wrote in=20
message </FONT><A=20
href=3D"news:1178364722.211998.171200@q75g2000hsh.googlegroups.com"><FONT=
=20
face=3DArial=20
size=3D2>news:1178364722.211998.171200@q75g2000hsh.googlegroups.com</FONT=
></A><FONT=20
face=3DArial size=3D2>...</FONT></DIV>
<DIV><FONT face=3DArial size=3D2>&gt; William E. Sabin =
wrote:<BR>[snip]</FONT></DIV>
```

```
<DIV><FONT face=3DArial size=3D2>&gt; <BR>&gt; (I did lament here on =
Usenet when the=20
CA3046 was discontinued a year<BR>&gt; or two ago... a shame! But the =
LM723 will=20
outlive it!)<BR>&gt; <BR>&gt; Tim.<BR>&gt;</FONT></DIV></BODY></HTML>

------=_NextPart_000_0025_01C78F4C.A9ADBAD0--
```

```
From -6566202437246250099
X-Google-Thread: fc2a5,37190e82bed2a18a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!sn-xt-sjc-04!sn-xt-
sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Computer Grade
Date: Sat, 05 May 2007 21:46:32 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <133qgbts62ftg49@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <133bo782iag5q70@corp.supernews.com>
<f1abj9$l33$1@eskinews.eskimo.com> <qB4_h.30513$n_.3743@attbi_s21>
<1178364722.211998.171200@q75g2000hsh.googlegroups.com>
<ao0p33h47ikukedibg1jair8l4olirpo3d@4ax.com>
In-Reply-To: <ao0p33h47ikukedibg1jair8l4olirpo3d@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 19
Xref: g2news1.google.com rec.radio.amateur.homebrew:13188
```

Paul Keinanen wrote:

> Apart from aviation, the last time the last time I heard someone using
> 400 Hz for powering computers was in the early 1960's with a 50/400 Hz
> motor/generator in the basement, feeding the anode supply of some tube
> computers :-), in order to reduce the transformer and filter capacity
> size.

MG Sets (400 Hz) powered many mainframe and midrange systems well through the late 1970s; CDC's small graphics system called 'GRID' used a mini (2500KVA) 400 Hz MG set and it was built with TTL and DTL, and the entire 1604, 3000, 6000, 7000 and most Cybers used large MG sets. The 160/160A/8090 series could be equipped with 400 Hz (MG driven) supplies or 60 Hz switchers (circa 1959-1966).

Regards,

Michael

From 6951188053540959148
X-Google-Thread: f849b,4a66d8310eba2c51,start
X-Google-Thread: fc2a5,4a66d8310eba2c51,start
X-Google-Thread: 1131b0,4a66d8310eba2c51,start
X-Google-Attributes: gidf849b,gidfc2a5,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out03b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!news-
in-02.newsfeed.easynews.com!easynews.com!easynews!sn-xt-sjc-03!sn-xt-sjc-10!sn-xt-
sjc-01!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Tektronix 7603 scope behavior when readout board is missing
Date: Sat, 05 May 2007 22:14:57 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <133qi16a39ohn43@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 31
Xref: g2news1.google.com comp.arch.embedded:46003 rec.radio.amateur.homebrew:13189
sci.electronics.repair:65852

Greetings:

I just acquired a Tek 7603 scope with 7A18 dual-trace vert. and 7B53A timebase plugins but upon internal inspection and cleaning discovered that the readout board (when facing the front of the instrument it is found on the upper right side midway along the length) is missing, as are all interconnecting cables it uses.

The display is very corrupted: odd blanking and sawtooth displays appear with no vertical input and horizontal sweep width changes with timebase selection in a drastic way. A vertical input signal modulates the strange displays in a fashion that suggests the vertical section is functional and the vertical position controls do work.

The plugins are supposed to be in operating condition.

The internal logic timeshares the display between readout and waveforms and is rather complex and implemented in Tek custom hybrid ICs and a mix of TTL and CMOS. I would really appreciate a report of the behavior on a working 7600 series scope when the readout board is disconnected; the service manual describes various voltage measurements with the board removed so it is permissible to do so and power the instrument (but no mention is made of the scope's behavior with the board removed).

Many thanks to anyone willing to do this.

Regards,

Michael

```
From -4813796225530935196
X-Google-Thread: fc2a5,8d3823efde0ae903
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p77g2000hsh.googlegroups.com!not-for-
mail
From: 3flp <zalio@optusnet.com.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Advice on the art of radio design, local oscillators and filters etc
Date: 5 May 2007 20:45:34 -0700
Organization: http://groups.google.com
Lines: 31
Message-ID: <1178423134.015231.218060@p77g2000hsh.googlegroups.com>
References: <1177952390.073163.224680@y5g2000hsa.googlegroups.com>
NNTP-Posting-Host: 220.239.127.42
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1178423134 26451 127.0.0.1 (6 May 2007 03:45:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 6 May 2007 03:45:34 +0000 (UTC)
In-Reply-To: <1177952390.073163.224680@y5g2000hsa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.13) Gecko/
20060418 Fedora/1.0.8-1.1.fc4 Firefox/1.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p77g2000hsh.googlegroups.com; posting-host=220.239.127.42;
   posting-account=FKVDmw0AAABUoBJYHXi8py4QeCtPWxvp
Xref: g2news1.google.com rec.radio.amateur.homebrew:13190
```

Hi,

I've been recently going through a similar process. Designing a UHF VCO for a hobby project, mainly as a self-education project. As in, rather than buying the thing from Minicircuits or whoever and be done, learn how to design and build one myself, so that I never have to buy them. And to get them much cheaper... a few cents a piece, as long as you don't mind the effort.

Anyway, when I couldn't get it quite right for a while, with tuning range, harmonics, output power, etc, here's what I did: Build a prototype, measure the frequency and output level. Try with a few different tuning cap values in place where the varicap would be. Got a proper RF simulation software*. Spice is probably not the best tool for that. See if simulated oscillator frequencies match what was really measured. I found out that after I included all parasitics properly (eg. 0805 capacitor might have about 2nH inductance), and also the PCB interconnections and the right transistor model, I get almost exact match. A 1.4GHz frequency in the simulation, within a few % off the real measured frequency. So now I know I got the simulation right, and I can go ahead and experiment with different varicap types, circuit topologies, etc... and I only get to the next PCB+soldering iron exersize when the simulated performance is what I need. Saves time.

* I realise that getting 'proper' RF simulation software can be tricky/ expensive...

-- Cheers,
3flp

From 2947999512502130831
X-Google-Thread: 108122,b71e70f3d9d56946
X-Google-Thread: fc2a5,b71e70f3d9d56946
X-Google-Thread: 115730,b71e70f3d9d56946
X-Google-Thread: 1131b0,b71e70f3d9d56946
X-Google-Attributes: gid108122,gidfc2a5,gid115730,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 06 May 2007 07:48:15 -0500
Date: Sun, 06 May 2007 08:48:15 -0400
From: Dave <W1MCE@comcast.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.4) Gecko/20030624
Netscape/7.1 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,sci.electronics.equipment,s
ci.electronics.repair
Subject: Re: MFJ-259B coils
References: <xNmdncePwa23UKbbnZ2dnUVZ_sudnZ2d@comcast.com>
In-Reply-To: <xNmdncePwa23UKbbnZ2dnUVZ_sudnZ2d@comcast.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <JYSdnWAxpJISU6DbnZ2dnUVZ_vumnZ2d@comcast.com>
Lines: 16
NNTP-Posting-Host: 24.34.65.49
X-Trace: sv3-p5JNnvnOIZ8GGNyKzmsj1mDQKNHMDuzo9qZcLdGvsnE/sk8NRY0sGK5wEDUp+/
GJYCHC56am7i60TcU!YiwnamjTdR8niFgbL2lLYkeBaT4cJNYPiJXse6eA+
+JpfKzdybwl5LPI2OcJAx83j9wTqXdpFuE6!e9VSjvs7pIr41L9T+7M1TVRAQyg=
X-Complaints-To: abuse@comcast.net

X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.equipment:11971 rec.radio.amateur.homebrew:13191 sci.electronics.equipment:8432 sci.electronics.repair:65859

What coils?

My MFJ-259B has all the guts inside!!!

DaveM wrote:

> Anybody happen to have the details of the dipper coils for the MFJ-259B Antenna
> Analyzer? Mine have become lost in a garage/workshop cleanout that went awry.
>
> Need number of turns, coil diameter, coil length if possible. Think I can
> remember the rest of the details well enough to rebuild them.
>
> Thanks for your help

From 4634831469446274392
X-Google-Thread: 104396,27a9c24c71744b83,start
X-Google-Thread: 10af61,27a9c24c71744b83,start
X-Google-Thread: faf7a,27a9c24c71744b83,start
X-Google-Thread: f49b3,27a9c24c71744b83,start
X-Google-Thread: fc2a5,27a9c24c71744b83,start
X-Google-Attributes: gid104396,gid10af61,gidfaf7a,gidf49b3,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out02b.usenetserver.com!news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe23.lga.POSTED!4cce7e6c!not-for-mail
Newsgroups: pdaxs.ads.homes.nw,pdaxs.ads.homes.se,pdaxs.ads.homes.sw,rec.aviation.homebuilt,rec.radio.amateur.homebrew
Subject: I made $1.25 million last year alone, I'll show you how!!!
From: cxbku@hotmail.co.uk
X-Newsreader: News Rover 12.2.0 (http://www.NewsRover.com)
Lines: 33
Message-ID: <WKl%h.90564$NK5.70860@newsfe23.lga>
X-Complaints-To: abuse@thundernews.com
NNTP-Posting-Date: Sun, 06 May 2007 07:37:42 MST
Organization: ThunderNews
Date: Sun, 6 May 2007 14:37:47 GMT
Xref: g2news1.google.com pdaxs.ads.homes.nw:21 pdaxs.ads.homes.se:23 pdaxs.ads.homes.sw:25 rec.aviation.homebuilt:26261

rec.radio.amateur.homebrew:13192

For many years I worked for other people on the daily grind. 9 - 5 and much
longer
hours for what now seems like very poor pay.
I suppose looking back on it now, I didn't really know how trapped I
was until I discovered an easy way to make money using Ebay and the
Internet.
Since then I haven't looked back and have been making money
consistently. For a long time now, I have been developing a number of
interesting methods that can realize lots of money both on and off
ebay. I am now offering you the opportunity to do the same.
Each method is completely legal. There are no pyramid schemes, MLM
schemes, affiliate programs, investment schemes or adults only
business. This is not dropshipping, misspelled ebay adverts or
selling
for other people.
I am offering you the chance to make enormous amounts of money both
on
and off ebay!
Are you tired of 'Get Rich Schemes'? Well you can relax and purchase
from someone with an excellent reputation.
I have been making a living online now for many years and have a
number of different ebay ID's from which I sell. I do a lot of
different things both on and off ebay and make a profit from all of
them. I have found enormous success in four key areas that I am now
offering to you.
These methods are not diet pills, pyramid schemes, affiliate
marketing, or running a website, just four incredible opportunities
for you to make enormous amounts of money.
'I don't just sell these methods, I guarantee them. And if you don't
succeed then I'll give you double your money back!'
WHAT I OFFER
Four great systems for generating fast cash
<http://www.guitarxx.com>

```
From 2034313334344113457
X-Google-Thread: f849b,4a66d8310eba2c51
X-Google-Thread: fc2a5,4a66d8310eba2c51
X-Google-Thread: 1131b0,4a66d8310eba2c51
X-Google-Attributes: gidf849b,gidfc2a5,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.mv.net!not-for-mail
From: PeterD <peter2@hipson.net>
Newsgroups: comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Tektronix 7603 scope behavior when readout board is missing
Date: Sun, 06 May 2007 11:20:46 -0400
Organization: MV Communications, Inc.
Lines: 40
Message-ID: <pesr33dksg8ohp8dkpo4tfgfjp3l0vectm@4ax.com>
References: <133qi16a39ohn43@corp.supernews.com>
NNTP-Posting-Host: hipson.net
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: pyrite.mv.net 1178464846 85063 207.22.18.93 (6 May 2007 15:20:46 GMT)
X-Complaints-To: abuse@mv.net
NNTP-Posting-Date: Sun, 6 May 2007 15:20:46 +0000 (UTC)
X-Newsreader: Forte Agent 3.3/32.846
Xref: g2news1.google.com comp.arch.embedded:46017 rec.radio.amateur.homebrew:13193
sci.electronics.repair:65861
```

On Sat, 05 May 2007 22:14:57 -0500, msg <msg@_cybertheque.org_> wrote:

>Greetings:
>
>I just acquired a Tek 7603 scope with 7A18 dual-trace vert. and 7B53A timebase plugins but upon internal inspection and cleaning discovered that the readout board (when facing the front of the instrument it is found on the upper right side midway along the length) is missing, as are all interconnecting cables it uses.
>
>The display is very corrupted: odd blanking and sawtooth displays appear with no vertical input and horizontal sweep width changes with timebase selection in a drastic way. A vertical input signal modulates the strange displays in a fashion that suggests the vertical section is functional and the vertical position controls do work.
>
>The plugins are supposed to be in operating condition.
>
>The internal logic timeshares the display between readout and waveforms and is rather complex and implemented in Tek custom hybrid ICs and a mix of TTL and CMOS. I would really appreciate a report of the behavior on a working 7600 series scope when the readout board is disconnected; the service manual describes various voltage measurements with the board removed so it is permissible to do so and power the instrument (but no mention is made of the scope's behavior with the board removed).
>
>Many thanks to anyone willing to do this.
>
>Regards,
>
>Michael

Post what options were sold as part of this scope. Some were sold without readouts, the fact there are no connectors indicates that possibly the readout option was deleted.

IMHO, (and this is just a WAG) the problem you are reporting is not related to the readout...

From 8689162898821959793

X-Google-Thread: f849b,4a66d8310eba2c51
X-Google-Thread: fc2a5,4a66d8310eba2c51
X-Google-Thread: 1131b0,4a66d8310eba2c51
X-Google-Attributes: gidf849b,gidfc2a5,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!212.101.4.254.MISMATCH!solnet.ch!solnet.ch!217.73.144.44.MISMATCH!ecngs!feeder.ecngs.de!216.196.110.148.MISMATCH!border1.nntp.ams.giganews.com!nntp.giganews.com!sn-xt-ams-06!sn-xt-ams-08!sn-post-ams-02!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Tektronix 7603 scope behavior when readout board is missing
Date: Sun, 06 May 2007 10:33:36 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <133rta5353sea3d@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <133qi16a39ohn43@corp.supernews.com> <pesr33dksg8ohp8dkpo4tfgfjp3l0vectm@4ax.com>
In-Reply-To: <pesr33dksg8ohp8dkpo4tfgfjp3l0vectm@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 36
Xref: g2news1.google.com comp.arch.embedded:46018 rec.radio.amateur.homebrew:13194 sci.electronics.repair:65862

PeterD wrote:

> On Sat, 05 May 2007 22:14:57 -0500, msg <msg@_cybertheque.org_> wrote:

<snip>

>
  I would really
>>appreciate a report of the behavior on a working 7600 series scope
>>when the readout board is disconnected; the service manual describes
>>various voltage measurements with the board removed so it is
>>permissible to do so and power the instrument (but no mention is
>>made of the scope's behavior with the board removed).

<snip>
>
>
> Post what options were sold as part of this scope. Some were sold
> without readouts, the fact there are no connectors indicates that
> possibly the readout option was deleted.

Digging through Internet archives this morning I noticed a few posts
from folks seeking the readout board for 760x scopes with a mention

that 'Option 01' was a cost-reduced version sans this board so evidently the scope should work without it (if properly optioned?). I was not sure if any cable modifications would be needed if the board were removed from a scope not-so-optioned.

And indeed I now discover an "Option 1" label on the bottom of the left bay so this scope never had the board.

Its problems are elsewhere.

Thanks,

Michael

From -8364014093754532105
X-Google-Thread: f849b,4a66d8310eba2c51
X-Google-Thread: fc2a5,4a66d8310eba2c51
X-Google-Thread: 1131b0,4a66d8310eba2c51
X-Google-Attributes: gidf849b,gidfc2a5,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out01a.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!not-for-mail
From: Dr. Anton T. Squeegee <SpammersBlow@dev.null>
Newsgroups: comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Tektronix 7603 scope behavior when readout board is missing
Date: Sun, 6 May 2007 08:41:11 -0700
Message-ID: <MPG.20a796f2d0ee525b98976c@192.168.42.197>
References: <133qi16a39ohn43@corp.supernews.com>
Organization: Blue Feather Technologies
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-15"
Content-Transfer-Encoding: 7bit
X-Newsreader: MicroPlanet Gravity v2.60
Cache-Post-Path: gutenberg.bluefeathertech.com!unknown@seleth.bluefeathertech.com
X-Cache: nntpcache 3.0.2 (see http://www.nntpcache.com/)
Cache-Post-Path: bubbleator.drizzle.com!unknown@gutenberg.bluefeathertech.com
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
Lines: 34
X-Complaints-To: abuse@csolutions.net
Xref: g2news1.google.com comp.arch.embedded:46019 rec.radio.amateur.homebrew:13195 sci.electronics.repair:65863

In article <133qi16a39ohn43@corp.supernews.com>, msg@_cybertheque.org_ (known to some as msg) scribed...

> Greetings:
>
> I just acquired a Tek 7603 scope with 7A18 dual-trace vert. and 7B53A
> timebase plugins but upon internal inspection and cleaning discovered
> that the readout board (when facing the front of the instrument it is
> found on the upper right side midway along the length) is missing, as

> are all interconnecting cables it uses.

<snippety>

There is a Tektronix group on Yahoo groups that is loaded with very experienced 'Tekkies.' You would do well to take your query there.

Off the top of my head, I would say two things.

(1) Get the service manuals for your 'scope frame, AND both plug-ins. It will be nearly impossible to troubleshoot or service without them.

(2) Check your power supply section for bad filter caps, correct voltages, noise, etc. Ironically enough, you will likely need a known-working 'scope to fix this one.

Happy tweaking.

--
Dr. Anton T. Squeegee, Director, Dutch Surrealist Plumbing Institute
(Known to some as Bruce Lane, KC7GR)
http://www.bluefeathertech.com -- kyrrin a/t bluefeathertech d-o=t calm
"Salvadore Dali's computer has surreal ports..."

```
From 6101126316996672946
X-Google-Thread: 108122,b71e70f3d9d56946
X-Google-Thread: fc2a5,b71e70f3d9d56946
X-Google-Thread: 115730,b71e70f3d9d56946
X-Google-Thread: 1131b0,b71e70f3d9d56946
X-Google-Attributes: gid108122,gidfc2a5,gid115730,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 06 May 2007 11:40:09 -0500
From: "DaveM" <masondg4499@comcast99.net>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,sci.electronics.equipment,s
ci.electronics.repair
References: <xNmdncePwa23UKbbnZ2dnUVZ_sudnZ2d@comcast.com>
<JYSdnWAxpJISU6DbnZ2dnUVZ_vumnZ2d@comcast.com>
Subject: Re: MFJ-259B coils
Date: Sun, 6 May 2007 12:40:09 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <4_CdnVVlSOB0maPbnZ2dnUVZ_gmdnZ2d@comcast.com>
Lines: 36
```

```
NNTP-Posting-Host: 71.199.254.204
X-Trace: sv3-pKWE+w+7BoYN1/KPcG5aSxdmKiKeh9ewzwotr6M8Wx+esrL/
WCqNVPVOcKZIISMA5dhrquiqOdQ34NO!r9bpQUhzUIC/VGoXxAdXlA9l0d6DVwQF2ehd0O2FT/
gPAG14atJ/NwpI6mOPK1SVJ+AucooYszLQ!qhkmy/u6q0laCm1Spx6MY7/EZGL2xDc=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.equipment:11973
rec.radio.amateur.homebrew:13196 sci.electronics.equipment:8433
sci.electronics.repair:65865

"Dave" <W1MCE@comcast.net> wrote in message
news:JYSdnWAxpJISU6DbnZ2dnUVZ_vumnZ2d@comcast.com...
> What coils?
>
> My MFJ-259B has all the guts inside!!!
>
>
>
> DaveM wrote:
>
>> Anybody happen to have the details of the dipper coils for the MFJ-259B
>> Antenna Analyzer?  Mine have become lost in a garage/workshop cleanout that
>> went awry.
>>
>> Need number of turns, coil diameter, coil length if possible.  Think I can
>> remember the rest of the details well enough to rebuild them.
>>
>> Thanks for your help
>

Yep!!! My MFJ-259B has lots of guts too.
The dipper coils are used to make the Analyzer operate like a grid dip meter.
Extremely useful for tuning traps, tanks, etc.   They are an accessory to the
Analyzer; I think the part number for them is MFJ-66.
There are two coils in the set, one for 1.8 MHz to 50 MHz, the other covers 20
MHz to 170 MHz.

Cheers!
--
Dave M
MasonDG44 at comcast dot net  (Just substitute the appropriate characters in the
address)

Life is like a roll of toilet paper; the closer to the end, the faster it goes.



From -6909194911011444682
```

```
X-Google-Thread: fc2a5,50591d7a0ab507a7,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wn13feed!worldnet.att.net!bgtnsc05-
news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: MO PARTS AGAIN
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <JGt%h.111676$VU4.54684@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: e7592767af5fe684709d2a57c5a8c869
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1178494761
e7592767af5fe684709d2a57c5a8c869 (Sun, 06 May 2007 23:39:21 GMT)
NNTP-Posting-Date: Sun, 06 May 2007 23:39:21 GMT
Organization: AT&T Worldnet
Date: Sun, 06 May 2007 23:39:21 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13197
```

After 6 mos off for hip fracture healing, and a small fire, I have
started to list items again: I will add daily as I can:

See my items at:
http://search.ebay.com/_W0QQfrppZ50QQfsooZ1QQfsopZ1QQrdZ0QQsassZheytubeguy

I also have 30 or so antique radios to be added beginning in the not too
distant future.

Tnx for looking, Heytubeguy

```
From 6525399711638887169
X-Google-Thread: 108122,b71e70f3d9d56946
X-Google-Thread: fc2a5,b71e70f3d9d56946
X-Google-Thread: 115730,b71e70f3d9d56946
X-Google-Thread: 1131b0,b71e70f3d9d56946
X-Google-Attributes: gid108122,gidfc2a5,gid115730,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 06 May 2007 19:03:05 -0500
Date: Sun, 06 May 2007 20:03:06 -0400
From: Dave <W1MCE@comcast.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.4) Gecko/20030624
```

Netscape/7.1 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,sci.electronics.equipment,s
ci.electronics.repair
Subject: Re: MFJ-259B coils
References: <xNmdncePwa23UKbbnZ2dnUVZ_sudnZ2d@comcast.com>
<JYSdnWAxpJISU6DbnZ2dnUVZ_vumnZ2d@comcast.com>
<4_CdnVVlSOB0maPbnZ2dnUVZ_gmdnZ2d@comcast.com>
In-Reply-To: <4_CdnVVlSOB0maPbnZ2dnUVZ_gmdnZ2d@comcast.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <qq6dnZcNo-Uk8aPbnZ2dnUVZ_sninZ2d@comcast.com>
Lines: 38
NNTP-Posting-Host: 24.34.65.49
X-Trace: sv3-HNMmW4ntMW8/
Iy3EvewPKCr1Dzb52iYQSKr+Mxgm4t0VVyF3f3iDpjdi5VktrzsIDYzPxiia0nwG4V8!
YZMKo6JLjdfo8Z4agDktWFqAApb4b9CwpGX3I/DCOxZxIvaY3f9ChAGImkALWmD9dRPAPWmSJFYr!
9TKWkuIL+fsUjiZlzsranlHz0VU=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.equipment:11976
rec.radio.amateur.homebrew:13198 sci.electronics.equipment:8437
sci.electronics.repair:65877

DaveM wrote:

> "Dave" <W1MCE@comcast.net> wrote in message
> news:JYSdnWAxpJISU6DbnZ2dnUVZ_vumnZ2d@comcast.com...
>
>>What coils?
>>
>>My MFJ-259B has all the guts inside!!!
>>
>>
>>
>>DaveM wrote:
>>
>>
>>>Anybody happen to have the details of the dipper coils for the MFJ-259B
>>>Antenna Analyzer? Mine have become lost in a garage/workshop cleanout that
>>>went awry.
>>>
>>>Need number of turns, coil diameter, coil length if possible. Think I can
>>>remember the rest of the details well enough to rebuild them.
>>>
>>>Thanks for your help
>>

>
> Yep!!! My MFJ-259B has lots of guts too.
> The dipper coils are used to make the Analyzer operate like a grid dip meter.
> Extremely useful for tuning traps, tanks, etc.   They are an accessory to the
> Analyzer; I think the part number for them is MFJ-66.
> There are two coils in the set, one for 1.8 MHz to 50 MHz, the other covers 20
> MHz to 170 MHz.
>
> Cheers!

Wow! I learned something today. Even old farts can learn something new.

BTW: my grid dipper is a real grid dipper ... AN/PRM-10. Anybody remember that
old boatanchor?

From -9023582094303768962
X-Google-Thread: fc8b1,7bfeba99915703c7,start
X-Google-Thread: fc2a5,7bfeba99915703c7,start
X-Google-Attributes: gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e65g2000hsc.googlegroups.com!not-for-mail
From: "Ross, NS7F" <rjtucke@gmail.com>
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: where to buy some chassis?
Followup-To: rec.radio.amateur.homebrew
Date: 6 May 2007 17:36:55 -0700
Organization: http://groups.google.com
Lines: 11
Message-ID: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
NNTP-Posting-Host: 72.223.33.22
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1178498215 24025 127.0.0.1 (7 May 2007 00:36:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 7 May 2007 00:36:55 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; PPC Mac OS X; en) AppleWebKit/417.9
(KHTML, like Gecko) Safari/417.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e65g2000hsc.googlegroups.com; posting-host=72.223.33.22;
   posting-account=Z00KWA0AAAAKEHY2UyS3wqEckPJYZh9S
Xref: g2news1.google.com rec.radio.amateur.boatanchors:11517
rec.radio.amateur.homebrew:13199

I would like to build some tube transmitters and am curious where
other people get their chassis? Article 1 (The Novice Special, from
the arrl website) calls for LMB SQ-1 cabinet (8.5 x 4.5 x 4.5 in)
which "comes complete with chassis and front panel".
Article 2 (A Three-Band One-Tube Novice Transmitter, from Dec '57 QST)
calls for a 2 x 7 x 13 in aluminum chassis enclosed in a 7 x 9 x 15 in

aluminum box.
Any suggestions?
Thanks and 73,
Ross, NS7F

From 5014683930056836006
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out01b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!
in02.usenetserver.com!news.usenetserver.com!cycny01.gnilink.net!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe18.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
Subject: Re: where to buy some chassis?
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <uSu%h.57086$oJ1.29309@newsfe18.lga>
Date: Sun, 6 May 2007 21:00:04 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe18.lga 1178499610 68.0.230.122 (Sun, 06 May 2007 18:00:10 MST)
NNTP-Posting-Date: Sun, 06 May 2007 18:00:10 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13200

"Ross, NS7F" <rjtucke@gmail.com> wrote in message
news:1178498215.118317.189610@e65g2000hsc.googlegroups.com...
>I would like to build some tube transmitters and am curious where
> other people get their chassis? Article 1 (The Novice Special, from
> the arrl website) calls for LMB SQ-1 cabinet (8.5 x 4.5 x 4.5 in)
> which "comes complete with chassis and front panel".
> Article 2 (A Three-Band One-Tube Novice Transmitter, from Dec '57 QST)
> calls for a 2 x 7 x 13 in aluminum chassis enclosed in a 7 x 9 x 15 in
> aluminum box.
> Any suggestions?
> Thanks and 73,
> Ross, NS7F
>

http://www.youdoitelectronics.com

```
From 1343601400725484752
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p77g2000hsh.googlegroups.com!not-for-
mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: where to buy some chassis?
Date: 6 May 2007 18:01:52 -0700
Organization: http://groups.google.com
Lines: 30
Message-ID: <1178499712.170584.111420@p77g2000hsh.googlegroups.com>
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
NNTP-Posting-Host: 63.73.218.130
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1178499712 29606 127.0.0.1 (7 May 2007 01:01:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 7 May 2007 01:01:52 +0000 (UTC)
In-Reply-To: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Links (1.00pre14; Linux 2.6.13.2 i686;
80x25),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p77g2000hsh.googlegroups.com; posting-host=63.73.218.130;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com rec.radio.amateur.homebrew:13201
```

Ross, NS7F wrote:
> I would like to build some tube transmitters and am curious where
> other people get their chassis? Article 1 (The Novice Special, from
> the arrl website) calls for LMB SQ-1 cabinet (8.5 x 4.5 x 4.5 in)
> which "comes complete with chassis and front panel".
> Article 2 (A Three-Band One-Tube Novice Transmitter, from Dec '57 QST)
> calls for a 2 x 7 x 13 in aluminum chassis enclosed in a 7 x 9 x 15 in
> aluminum box.
> Any suggestions?

Aluminum chassis are available ($10-$30 range depending on size) from www.digikey.com, www.mouser.com, www.tubesandmore.com, etc.

Kitchen pans/baking trays can be surprisingly effective as well for a lot less money.

A good hardware/welding store will have aluminum sheet and extrusions. Home Depot etc. really suck in this area.

As far as full metal cabinets go, the above-named distributors will have them by Hammond, Bud, etc., but you'll be shocked at the prices. Recycled enclosures from other projects or picked up at hamfests are quite affordable though.

McMaster-Carr has a lot of stuff, not discount prices, but excellent selection and they ship to me overnight via UPS ground. They also have a lot of plastics, tubes, etc. http://www.mcmaster-carr.com/

Tim KA0BTD

From 3211800253679026032
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out03b.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!news-in-02.newsfeed.easynews.com!easynews.com!easynews!sn-xt-sjc-03!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: where to buy some chassis?
Date: Sun, 06 May 2007 21:08:28 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <133t2ggn5jmun72@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
<1178499712.170584.111420@p77g2000hsh.googlegroups.com>
In-Reply-To: <1178499712.170584.111420@p77g2000hsh.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 19
Xref: g2news1.google.com rec.radio.amateur.homebrew:13202

Tim Shoppa wrote:

<snip>
> Aluminum chassis are available ($10-$30 range depending on size) from
> www.digikey.com, www.mouser.com, www.tubesandmore.com, etc.
>
> Kitchen pans/baking trays can be surprisingly effective as well for a
> lot less money.
>
> A good hardware/welding store will have aluminum sheet and extrusions.
> Home Depot etc. really suck in this area.

Also, consider having enclosures made at a local sheet metal shop (heating, cooling, ventilating); I've had them done for _very_ little money out of galvanized, and you can solder to them.

Regards,

Michael

From 1242561791192330509
X-Google-Thread: f849b,4a66d8310eba2c51
X-Google-Thread: fc2a5,4a66d8310eba2c51
X-Google-Thread: 1131b0,4a66d8310eba2c51
X-Google-Attributes: gidf849b,gidfc2a5,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.stanford.edu!sn-xt-sjc-03!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Tektronix 7603 scope behavior when readout board is missing
Date: Sun, 06 May 2007 21:12:49 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <133t2olcp86mj8e@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <133qi16a39ohn43@corp.supernews.com>
In-Reply-To: <133qi16a39ohn43@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 22
Xref: g2news1.google.com comp.arch.embedded:46031 rec.radio.amateur.homebrew:13203 sci.electronics.repair:65888

msg wrote:

> Greetings:
>
> I just acquired a Tek 7603 scope with 7A18 dual-trace vert. and 7B53A
> timebase plugins...

<snip>

> The display is very corrupted: odd blanking and sawtooth displays
> appear with no vertical input and horizontal sweep width changes with
> timebase selection in a drastic way. A vertical input signal modulates
> the strange displays in a fashion that suggests the vertical section
> is functional and the vertical position controls do work.

The problem was a defective C811 (14000 uf / 25v), the -18V filter capacitor for the -15V supply.

Scope works well now.

Regards,

Michael

```
From -5109944687080143811
X-Google-Thread: fc2a5,37190e82bed2a18a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y5g2000hsa.googlegroups.com!not-for-
mail
From: Kirk <kirkmcloren@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Computer Grade
Date: 6 May 2007 20:13:23 -0700
Organization: http://groups.google.com
Lines: 25
Message-ID: <1178507603.586057.86180@y5g2000hsa.googlegroups.com>
References: <133bo782iag5q70@corp.supernews.com>
NNTP-Posting-Host: 208.65.217.26
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1178507604 15621 127.0.0.1 (7 May 2007 03:13:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 7 May 2007 03:13:24 +0000 (UTC)
In-Reply-To: <133bo782iag5q70@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.0;
FunWebProducts-MyWay; .NET CLR 1.0.3705),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y5g2000hsa.googlegroups.com; posting-host=208.65.217.26;
   posting-account=-sASbw0AAABtglD6rO6__9kkqIJNif6j
Xref: g2news1.google.com rec.radio.amateur.homebrew:13204
```

On Apr 30, 5:28 am, Jack Schmidling <a...@mc.net> wrote:

> I keep seeing caps described as "computer grade" but a search for a
> definition comes up with zilch.
>
> What does this mean? As the vast majority of computers are owned by the
> masses, one could assume it means sleazy consumer quality. Or it could
> mean the kind of computer that prevents ICBM's from being accidentally
> launched.
>
> Which is it?
>
> JACK K9ACT
>
> --
> PHOTO OF THE WEEK:http://schmidling.com/pow.htm
> Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silverhttp://schmidling.com

It is the working grade. Rated duty cycle.
There are commercial - 8 hours in 24
industrial - 12 hours in 24
computer or telephone grade 24 hours in 24.

The MTBF data is determined using the appropriate duty cycle.
See ITT Handbook for more info.
Kirk

From 1203250891603731441
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!mauve.octanews.net!news-out.octanews.net!indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: where to buy some chassis?
Date: Mon, 07 May 2007 00:45:38 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.05.07.07.45.38.275798@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 10
Organization: Octanews
NNTP-Posting-Date: 07 May 2007 02:45:38 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13205

Hello,

The aluminium that retail chassis are made from is a joke. Get some
1.6mm 5052-H14 from a local aluminium shop, a $30 brake and away you go.
You can make 5-7 for the cost of one retail ;-)

Cheers,

--
Gregg

From 6031926401100344410
X-Google-Thread: f849b,4a66d8310eba2c51
X-Google-Thread: fc2a5,4a66d8310eba2c51
X-Google-Thread: 1131b0,4a66d8310eba2c51
X-Google-Attributes: gidf849b,gidfc2a5,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p77g2000hsh.googlegroups.com!not-for-mail
From: tekamn <and7@bigfoot.com>
Newsgroups: comp.arch.embedded,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Tektronix 7603 scope behavior when readout board is missing
Date: 7 May 2007 00:46:54 -0700

```
Organization: http://groups.google.com
Lines: 36
Message-ID: <1178524014.615731.187560@p77g2000hsh.googlegroups.com>
References: <133qi16a39ohn43@corp.supernews.com>
   <133t2olcp86mj8e@corp.supernews.com>
NNTP-Posting-Host: 62.225.112.236
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1178524015 25204 127.0.0.1 (7 May 2007 07:46:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 7 May 2007 07:46:55 +0000 (UTC)
In-Reply-To: <133t2olcp86mj8e@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50727),gzip(gfe),gzip(gfe)
X-HTTP-Via: 1.0 G8DMC (NetCache NetApp/6.0.4P1), 1.0 G8DMC (NetCache NetApp/
6.0.4P1)
Complaints-To: groups-abuse@google.com
Injection-Info: p77g2000hsh.googlegroups.com; posting-host=62.225.112.236;
   posting-account=-frwVgwAAACjFGlMjto-7YpA0CDxaoTm
Xref: g2news1.google.com comp.arch.embedded:46038 rec.radio.amateur.homebrew:13206
sci.electronics.repair:65893
```

On 7 Mai, 04:12, msg <msg@_cybertheque.org_> wrote:

> msg wrote:
> > Greetings:
>
> > I just acquired a Tek 7603 scope with 7A18 dual-trace vert. and 7B53A
> > timebase plugins...
> <snip>
>
> > The display is very corrupted: odd blanking and sawtooth displays
> > appear with no vertical input and horizontal sweep width changes with
> > timebase selection in a drastic way. A vertical input signal modulates
> > the strange displays in a fashion that suggests the vertical section
> > is functional and the vertical position controls do work.
>
> The problem was a defective C811 (14000 uf / 25v), the -18V filter
> capacitor for the -15V supply.
>
> Scope works well now.
>
> Regards,
>
> Michael

Sounds good to my repair eperience. Due to own experience bad/dried filter caps in the LV pwr supply of Tek 76xx is often a problem. I had more than 50 of these for repair, and most of these due to cap problems.

Good luck with your fresh repaired scope, it is a nice instrument (with and without readout option).

hth,
Andreas

```
From 4594791534548542126
X-Google-Thread: 108778,509d72f26e42e0cb,start
X-Google-Thread: 114671,509d72f26e42e0cb,start
X-Google-Thread: 103929,509d72f26e42e0cb,start
X-Google-Thread: fcc6e,509d72f26e42e0cb,start
X-Google-Thread: fc8b1,509d72f26e42e0cb,start
X-Google-Thread: fc2a5,509d72f26e42e0cb,start
X-Google-Thread: 107ada,509d72f26e42e0cb,start
X-Google-Attributes:
gid108778,gid114671,gid103929,gidfcc6e,gidfc8b1,gidfc2a5,gid107ada,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out03b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!news.linkpendium.com!news.linkpendium.com!
newsfeed.pacific.net.au!token.pipenetworks.com!218.100.2.59.MISMATCH!not-for-mail
From: "Mac" <vk2evb@hotmail.com>
Newsgroups:
alt.radio.amateur,aus.radio.amateur.misc,fr.rec.radio.amateur,rec.radio.amateur,re
c.radio.amateur.antenna,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,r
ec.radio.amateur.misc
Subject: High School Radio Club looking for IRLP contacts world wide
Date: Mon, 7 May 2007 15:17:59 +1000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <463eb685$1_5@news.peopletelecom.com.au>
X-Original-NNTP-Posting-Host: news.people.net.au
Lines: 35
NNTP-Posting-Host: 202.154.92.95
X-Trace: 1178528730 un-2park-reader-01.sydney.pipenetworks.com.au 4607
202.154.92.95:49442
X-Complaints-To: Abuse, including message IDs to abuse@pipenetworks.com
Xref: g2news1.google.com alt.radio.amateur:739 aus.radio.amateur.misc:8927
fr.rec.radio.amateur:15029 rec.radio.amateur.antenna:40843
rec.radio.amateur.boatanchors:11520 rec.radio.amateur.homebrew:13207
rec.radio.amateur.misc:35832
```

Hi There,

The Bishop Druit College Radio Club
http://www.qsl.net/mm0axl/mncarg/bdc.html situated in the Mid North Coast of
NSW

Australia at Coffs Harbour are looking forward to making Local or DX IRLP contacts on Fridays 0315 - 0345 UTC.

Contacts will be on IRLP node 6625 via local repeater VK2RDO on 146.650Mhz.

The young people in the club have been experimenting with building simple FM radio recievers, and have been contemplating the design of plasma balls using ordinary light globes and car spark coils.

Contacts with interested parties or similar school electronic/radio groups would be great but unfortunately the club only has limited time during the local lunchtime period.

Also the Bishop Druit College French and German Language classes are interested in contacts Monday to Friday 0315 - 0345 UTC.

If interested and can help arrange a contact please email:

Gary VK2ZKT gryan@bdc.nsw.edu.au

or

Peter VK2EVB vk2evb@wia.org.au

From 951710199684713110
X-Google-Thread: 108122,b71e70f3d9d56946
X-Google-Thread: fc2a5,b71e70f3d9d56946
X-Google-Thread: 115730,b71e70f3d9d56946
X-Google-Thread: 1131b0,b71e70f3d9d56946
X-Google-Attributes: gid108122,gidfc2a5,gid115730,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 07 May 2007 06:40:46 -0500
Date: Mon, 07 May 2007 12:40:48 -0400
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 1.5.0.10 (X11/20070305)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew,sci.electronics.equipment,sci.electronics.repair
Subject: Re: MFJ-259B coils
References: <xNmdncePwa23UKbbnZ2dnUVZ_sudnZ2d@comcast.com> <JYSdnWAxpJISU6DbnZ2dnUVZ_vumnZ2d@comcast.com>

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<4_CdnVVlSOB0maPbnZ2dnUVZ_gmdnZ2d@comcast.com>
In-Reply-To: <4_CdnVVlSOB0maPbnZ2dnUVZ_gmdnZ2d@comcast.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <6eCdnd7WMZSjjaLbnZ2dnUVZ8ternZ2d@pipex.net>
Lines: 12
NNTP-Posting-Host: 81.179.107.40
X-Trace: sv3-
YWFhEADxXNywpkyfju8uxjVpvccjO+2lza1hwIvw56tMup07muPgG2rEYybRbUAtFemaMk53gk89Vh8!
kWBb1ZLmfll+pH7OMb2btjq/KsMYMOJhktRvbGHOdMzwpe+lUVfN5rFWEh17XvP6lSYXaFOYsoEB!qDmC/
Bs+GltpX0AAdhtXFR5itA==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.equipment:11981
rec.radio.amateur.homebrew:13208 sci.electronics.equipment:8439
sci.electronics.repair:65901

> Yep!!! My MFJ-259B has lots of guts too.
> The dipper coils are used to make the Analyzer operate like a grid dip meter.
> Extremely useful for tuning traps, tanks, etc.   They are an accessory to the
> Analyzer; I think the part number for them is MFJ-66.
> There are two coils in the set, one for 1.8 MHz to 50 MHz, the other covers 20
> MHz to 170 MHz.
=======================
Assuming that these dipper coils are connected to a PL259 plug for
connecting to the MFJ259B 's SO239 socket ,  it should not be too
difficult to homebrew the coils .........I'll have a go at that.

Frank   GM0CSZ / KN6WH


From 8907581796846689084
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!bos-service1.raytheon.com!dfw-service2.ext.ray.com.POSTED!
53ab2750!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: where to buy some chassis?
From: k5dh@raytheon.com (-=H=-)
X-Newsreader: WinVN 0.99.9 (Released Version) (x86 32bit)
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
MIME-Version: 1.0
Content-Type: Text/Plain; charset=US-ASCII
Lines: 38
Message-ID: <gNE%h.1$gb6.0@dfw-service2.ext.ray.com>
Date: Mon, 07 May 2007 12:17:16 GMT
NNTP-Posting-Host: 138.126.48.166
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X-Complaints-To: news@ext.ray.com
X-Trace: dfw-service2.ext.ray.com 1178540236 138.126.48.166 (Mon, 07 May 2007 12:17:16 UTC)
NNTP-Posting-Date: Mon, 07 May 2007 12:17:16 UTC
Organization: Raytheon Company
Xref: g2news1.google.com rec.radio.amateur.homebrew:13209

Ross,

Commercial outlets like Digi-Key, Mouser, Newark-Inone, and Allied Electronics carry a wide array of aluminum and steel enclosures. They're not cheap these days, but if you need one, you need one. Also keep an eye on eBay for chassis and enclosures. I've snagged some good ones there at very reasonable prices. And, of course, visit every local hamfest and SK estate sale. There are still bargains to be had that way. I picked up a nice cabinet at an estate sale just the other day which I intend to build a power supply in. It is about 6" tall, 8" deep, and 12" wide, and it's new in the original box. The was only $6.00! I buy cabinets and chassis whenever and wherever I find them, and then worry about what I can use them for.

The projects you're contemplating sound like something I'd build! (see my web site, http://www.qsl.net/k5dh)

73 and good luck!
Dean K5DH

In article <1178498215.118317.189610@e65g2000hsc.googlegroups.com>, rjtucke@gmail.com says...
>
>I would like to build some tube transmitters and am curious where
>other people get their chassis? Article 1 (The Novice Special, from
>the arrl website) calls for LMB SQ-1 cabinet (8.5 x 4.5 x 4.5 in)
>which "comes complete with chassis and front panel".
>Article 2 (A Three-Band One-Tube Novice Transmitter, from Dec '57 QST)
>calls for a 2 x 7 x 13 in aluminum chassis enclosed in a 7 x 9 x 15 in
>aluminum box.
>Any suggestions?
>Thanks and 73,
>Ross, NS7F
>

From -1716412912569879614
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!

news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 07 May 2007 07:18:49 -0500
Date: Sun, 06 May 2007 20:22:01 -0400
From: K3HVG <jeepp@comcast.net>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: where to buy some chassis?
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
In-Reply-To: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <NPmdnUK8OIC0hKLbnZ2dnUVZ_t2tnZ2d@comcast.com>
Lines: 24
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X-Trace: sv3-txPFicslEVhk09kw/hWPoPvKqTczQdDjwlIR6sVSADTcxaQ3d2L/
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Glemu20dKbnrbsl2eGr4JACYEDozVLM6m8UpXy4fxCyG6nFfgDd0Bx4vxS+Rqqrk90IkMbGfxF5U!
idPZssDzdK2OKFNJRBni2S1T8rt+
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13210

Ross, NS7F wrote:
> I would like to build some tube transmitters and am curious where
> other people get their chassis? Article 1 (The Novice Special, from
> the arrl website) calls for LMB SQ-1 cabinet (8.5 x 4.5 x 4.5 in)
> which "comes complete with chassis and front panel".
> Article 2 (A Three-Band One-Tube Novice Transmitter, from Dec '57 QST)
> calls for a 2 x 7 x 13 in aluminum chassis enclosed in a 7 x 9 x 15 in
> aluminum box.
> Any suggestions?
> Thanks and 73,
> Ross, NS7F
>
>

Mouser has a respectable line of aluminum and steel chassis in their catalog. The selection, today, is not what it was back in the 50's or 60's, but you can find what will work. Prices are a lot higher, too, especially for cabinet-type metalwork! I just pulled the '57 issue you spoke of. No problem with the chassis but the cabinet no longer exists from Bud, et al, much less Hammond. There is a fellow who ads in several pubs that makes aluminum chassis and cabinets. He's resonable and I'm sure he can gin up what you need. He's located in the Mid-Atlantic area and I saw him, last weekend, at a local hamfest.
de K3HVG

From 8500086756964236830
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: where to buy some chassis?
Date: 7 May 2007 05:40:35 -0700
Organization: http://groups.google.com
Lines: 29
Message-ID: <1178541635.609492.105400@q75g2000hsh.googlegroups.com>
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
   <pan.2007.05.07.07.45.38.275798@localhost.localdomain>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1178541635 5099 127.0.0.1 (7 May 2007 12:40:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 7 May 2007 12:40:35 +0000 (UTC)
In-Reply-To: <pan.2007.05.07.07.45.38.275798@localhost.localdomain>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q75g2000hsh.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com rec.radio.amateur.homebrew:13211

On May 7, 3:45 am, geek <g...@localhost.localdomain> wrote:

> Hello,
>
> The aluminium that retail chassis are made from is a joke. Get some
> 1.6mm 5052-H14 from a local aluminium shop, a $30 brake and away you go.
> You can make 5-7 for the cost of one retail ;-)

A factor of 5:1 in price?

My local sources charge about $5 per sq ft for 0.040" 5052-H14 aluminum.

A 17x10x3 chassis needs about 3 square feet.

That's $15 for materials, not counting wastage because the local source only sells it in 4x8 feet sheets :-). I compare that to $25 for a Hammond chassis of the same size already made and spot welded, and I don't see as big (5:1 or 7:1) of a disparity in prices as you do.

Now, I can get little (square foot or two) aluminum cutoffs at some scrap piles for a lot cheaper, and those work great for tiny little subchassis or miniboxes, even better to do it myself there because dimensions are often critical.

Maybe I'm buying really super expensive aluminum and you know where to
get it for $1 or so a square foot. If so, tell me where!

Tim.

```
From -7538402306296778908
X-Google-Thread: 104396,27a9c24c71744b83
X-Google-Thread: 10af61,27a9c24c71744b83
X-Google-Thread: faf7a,27a9c24c71744b83
X-Google-Thread: f49b3,27a9c24c71744b83
X-Google-Thread: fc2a5,27a9c24c71744b83
X-Google-Attributes: gid104396,gid10af61,gidfaf7a,gidf49b3,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out03a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx01.iad01.newshosting.com!newshosting.com!69.28.186.77.MISMATCH!hwmnpeer03.lga!
hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe18.lga.POSTED!
4cce7e6c!not-for-mail
Newsgroups:
pdaxs.ads.homes.nw,pdaxs.ads.homes.se,pdaxs.ads.homes.sw,rec.aviation.homebuilt,re
c.radio.amateur.homebrew
Subject: I made $1.25 million last year alone, I'll show you how!!!
From: cxbku@hotmail.co.uk
X-Newsreader: News Rover 12.2.0 (http://www.NewsRover.com)
Lines: 33
Message-ID: <%hF%h.59395$oJ1.23223@newsfe18.lga>
X-Complaints-To: abuse@thundernews.com
NNTP-Posting-Date: Mon, 07 May 2007 05:52:11 MST
Organization: ThunderNews
Date: Mon, 7 May 2007 12:52:17 GMT
Xref: g2news1.google.com pdaxs.ads.homes.nw:22 pdaxs.ads.homes.se:24
pdaxs.ads.homes.sw:26 rec.aviation.homebuilt:26300
rec.radio.amateur.homebrew:13212
```

For many years I worked for other people on the daily grind. 9 - 5 and much
longer
hours for what now seems like very poor pay.
I suppose looking back on it now, I didn't really know how trapped I
was until I discovered an easy way to make money using Ebay and the
Internet.
Since then I haven't looked back and have been making money
consistently. For a long time now, I have been developing a number of
interesting methods that can realize lots of money both on and off
ebay. I am now offering you the opportunity to do the same.
Each method is completely legal. There are no pyramid schemes, MLM
schemes, affiliate programs, investment schemes or adults only
business. This is not dropshipping, misspelled ebay adverts or
selling
for other people.
I am offering you the chance to make enormous amounts of money both

on and off ebay!

Are you tired of 'Get Rich Schemes'? Well you can relax and purchase from someone with an excellent reputation.

I have been making a living online now for many years and have a number of different ebay ID's from which I sell. I do a lot of different things both on and off ebay and make a profit from all of them. I have found enormous success in four key areas that I am now offering to you.

These methods are not diet pills, pyramid schemes, affiliate marketing, or running a website, just four incredible opportunities for you to make enormous amounts of money.

'I don't just sell these methods, I guarantee them. And if you don't succeed then I'll give you double your money back!'

WHAT I OFFER

Four great systems for generating fast cash

<http://www.guitarxx.com>

```
From 6133635417284260271
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!novia!
transit3.readnews.com!news-out.readnews.com!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: where to buy some chassis?
Date: 7 May 2007 09:33:59 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 15
Message-ID: <f1n9s7$s4b$1@panix2.panix.com>
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1178544839 19791 166.84.1.2 (7 May 2007 13:33:59 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 7 May 2007 13:33:59 +0000 (UTC)
Xref: g2news1.google.com rec.radio.amateur.homebrew:13213
```

Ross, NS7F <rjtucke@gmail.com> wrote:

>I would like to build some tube transmitters and am curious where
>other people get their chassis? Article 1 (The Novice Special, from
>the arrl website) calls for LMB SQ-1 cabinet (8.5 x 4.5 x 4.5 in)
>which "comes complete with chassis and front panel".
>Article 2 (A Three-Band One-Tube Novice Transmitter, from Dec '57 QST)
>calls for a 2 x 7 x 13 in aluminum chassis enclosed in a 7 x 9 x 15 in
>aluminum box.
>Any suggestions?

Antique Electronics Supply, Allied Electronics, and Newark Electronics all carry either the Hammond, Bud, or LMB chassis.

--scott

--
"C'est un Nagra. C'est suisse, et tres, tres precis."

```
From -6228539408754760130
X-Google-Thread: fc2a5,7bfeba99915703c7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 07 May 2007 08:46:35 -0500
Date: Mon, 07 May 2007 14:46:39 -0400
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 1.5.0.10 (X11/20070305)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: where to buy some chassis?
References: <1178498215.118317.189610@e65g2000hsc.googlegroups.com>
<pan.2007.05.07.07.45.38.275798@localhost.localdomain>
<1178541635.609492.105400@q75g2000hsh.googlegroups.com>
In-Reply-To: <1178541635.609492.105400@q75g2000hsh.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <sLCdna2eqrsmsKLbnZ2dnUVZ8vidnZ2d@pipex.net>
Lines: 32
NNTP-Posting-Host: 81.179.107.40
X-Trace: sv3-6Oo2WERIt2HkJqUgsH0laD/
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FmZ9o2Za8Bmc0sVYDoDJiScppfpF290TkUnAAjBkYY2WZxX8KJ1r4E4PSyusMb4V1eEoy5VIBZij!
8caePfcJ/FtqWDhvwVj8OVQ7sg==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13214
```

>> The aluminium that retail chassis are made from is a joke. Get some
>> 1.6mm 5052-H14 from a local aluminium shop, a $30 brake and away you go.
>> You can make 5-7 for the cost of one retail ;-)
>
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>
> My local sources charge about $5 per sq ft for 0.040" 5052-H14
> aluminum.
>
> A 17x10x3 chassis needs about 3 square feet.
>
> That's $15 for materials, not counting wastage because the local
> source only sells it in 4x8 feet sheets :-). I compare that to $25 for
> a Hammond chassis of the same size already made and spot welded, and I

> don't see as big (5:1 or 7:1) of a disparity in prices as you do.
>
> Now, I can get little (square foot or two) aluminum cutoffs at some
> scrap piles for a lot cheaper, and those work great for tiny little
> subchassis or miniboxes, even better to do it myself there because
> dimensions are often critical.
>
> Maybe I'm buying really super expensive aluminum and you know where to
> get it for $1 or so a square foot. If so, tell me where!

==========================
Over the years I bought some large size sheets double sided PCB material
at flea markets.
Provided there are no heavy transformers ,both chassis and enclosure can
be made of the material.
Under chassis screened compartments can be easily included.

Frank GM0CSZ / KN6WH

From -5542697646574334416
X-Google-Thread: fc2a5,5b5d8d70d14e3836
X-Google-Attributes: gidfc2a5,public
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newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-03!sn-xt-sjc-01!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Viking Adventurer
Date: Wed, 25 Apr 2007 07:46:20 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <132ujejhi6nth3d@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <132t82thgeesid3@corp.supernews.com>
<heit23tatm2f6f8u1cplc2chc4nbnjnfhe@4ax.com>
In-Reply-To: <heit23tatm2f6f8u1cplc2chc4nbnjnfhe@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 15
Xref: g2news1.google.com rec.radio.amateur.homebrew:13114

Bruce W. Ellis wrote:

<snip>
> amplifier with
> four 837s in grounded grids. Damn near electrocuted myself on that
> amp.

<snip>

> Bruce W0BF (ex KN0CNC, K0CNC)

See http://www.cybertheque.org/homebrew/837_linear for more nostalgia.

Regards,

Michael

From 3594189413528548217
X-Google-Thread: 106d41,5122787e31a0c56d,start
X-Google-Thread: 110aca,5122787e31a0c56d,start
X-Google-Thread: 108122,5122787e31a0c56d,start
X-Google-Thread: fc2a5,5122787e31a0c56d,start
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
From: "Mike Hunt" <mh@invalid.net>
Newsgroups:
rec.radio.cb,alt.autos.nissan,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: What happened to the SkyWave?
Date: Wed, 25 Apr 2007 13:38:23 -0400
Organization: truth and reason
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Lines: 9
Message-ID: <462f9213$0$5785$4c368faf@roadrunner.com>
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.cb:35612 alt.autos.nissan:11614
rec.radio.amateur.equipment:11903 rec.radio.amateur.homebrew:13115

SkyWave 2879ABTC - RF Linear Amplifier

STATUS - Discontinued April 2007

http://www.telstar-electronics.com/default_files/productsupport.htm

lol lol lol lol lol lol lol lol lol lol lol lol

From -1953756871955714681
X-Google-Thread: 106d41,5122787e31a0c56d
X-Google-Thread: 110aca,5122787e31a0c56d
X-Google-Thread: 108122,5122787e31a0c56d

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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Mike Hunt" <mh@invalid.net>
Newsgroups: 
rec.radio.cb,alt.autos.nissan,rec.radio.amateur.equipment,rec.radio.amateur.homebr
ew
References: <462f9213$0$5785$4c368faf@roadrunner.com>
Subject: Re: What happened to the Telstar Electronics  SkyWave?
Date: Wed, 25 Apr 2007 13:45:03 -0400
Organization: truth and reason
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Lines: 18
Message-ID: <462f93b3$0$8942$4c368faf@roadrunner.com>
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.cb:35613 alt.autos.nissan:11615 
rec.radio.amateur.equipment:11904 rec.radio.amateur.homebrew:13116


"Mike Hunt" <mh@invalid.net> wrote in message 
news:462f9213$0$5785$4c368faf@roadrunner.com...
> SkyWave 2879ABTC - RF Linear Amplifier
>
> STATUS - Discontinued April 2007
>
> http://www.telstar-electronics.com/default_files/productsupport.htm
>
> lol lol lol lol lol lol lol lol lol lol lol lol
>
We did not find any auctions for briangriffey@sbcglobal.net

RATTED OUT!!!!!!!!!!!!!!!!!!!!!!!!!

lol lol lol lol lol lol lol lol lol lol lol lol




From 5735334064284068257
X-Google-Thread: 106d41,5122787e31a0c56d
X-Google-Thread: 110aca,5122787e31a0c56d
X-Google-Thread: 108122,5122787e31a0c56d
X-Google-Thread: fc2a5,5122787e31a0c56d
X-Google-Attributes: gid106d41,gid110aca,gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
```

```
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
From: "Yo Mamma" <cantemailme@uranus.com>
Newsgroups:
rec.radio.cb,alt.autos.nissan,rec.radio.amateur.equipment,rec.radio.amateur.homebr
ew
References: <462f9213$0$5785$4c368faf@roadrunner.com>
In-Reply-To: <462f9213$0$5785$4c368faf@roadrunner.com>
Subject: Re: What happened to the SkyWave?
Date: Wed, 25 Apr 2007 19:42:04 -0500
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.6000.16386
X-MIMEOLE: Produced By Microsoft MimeOLE V6.0.6000.16386
Lines: 14
Message-ID: <462ff54e$0$19471$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.cb:35615 alt.autos.nissan:11619
rec.radio.amateur.equipment:11907 rec.radio.amateur.homebrew:13117
```

```
"Mike Hunt" <mh@invalid.net> wrote in message
news:462f9213$0$5785$4c368faf@roadrunner.com...
> SkyWave 2879ABTC - RF Linear Amplifier
>
> STATUS - Discontinued April 2007
>
> http://www.telstar-electronics.com/default_files/productsupport.htm
>
> lol lol lol lol lol lol lol lol lol lol lol lol
>

Gee, ya think sales could be the reason? LOLOLOLOLOLOLOL!!!!
```

```
From -716518837372005461
X-Google-Thread: 106d41,5122787e31a0c56d
X-Google-Thread: 110aca,5122787e31a0c56d
X-Google-Thread: 108122,5122787e31a0c56d
X-Google-Thread: fc2a5,5122787e31a0c56d
X-Google-Attributes: gid106d41,gid110aca,gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
```

```
NNTP-Posting-Date: Thu, 26 Apr 2007 04:34:04 -0500
Date: Thu, 26 Apr 2007 10:33:09 -0400
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 1.5.0.10 (X11/20070305)
MIME-Version: 1.0
Newsgroups:
rec.radio.cb,alt.autos.nissan,rec.radio.amateur.equipment,rec.radio.amateur.homebr
ew
Subject: Re: What happened to the SkyWave?
References: <462f9213$0$5785$4c368faf@roadrunner.com>
<462ff54e$0$19471$4c368faf@roadrunner.com>
In-Reply-To: <462ff54e$0$19471$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <8tqdnW_Ff_OR763bRVnyvgA@pipex.net>
Lines: 23
NNTP-Posting-Host: 81.178.211.12
X-Trace: sv3-SK6K/Qcw/V4CBbqjUc3lwxGFzVwlZ0/7oy/AV+ASRRv/
FDkJQU9pmta7ivQG2EEwdcaEqulbVoSEaPZ!C13Qta27LIlrF3IITvJh3KaOf/
s1I+IqwVrPztyZMNi62wb77WlCWRt8YOlGxR4R9q+Hqifpfnt4!NLubh4EDzqk5Hg==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.cb:35617 alt.autos.nissan:11623
rec.radio.amateur.equipment:11908 rec.radio.amateur.homebrew:13118
```

Yo Mamma wrote:

>
> "Mike Hunt" <mh@invalid.net> wrote in message
> news:462f9213$0$5785$4c368faf@roadrunner.com...
>> SkyWave 2879ABTC - RF Linear Amplifier
>>
>> STATUS - Discontinued April 2007
>>
>> http://www.telstar-electronics.com/default_files/productsupport.htm
>>
>> lol lol lol lol lol lol lol lol lol lol lol lol
>>
>
> Gee, ya think sales could be the reason? LOLOLOLOLOLOLOL!!!!

================================

The likely reason is that the FCC considers the device a CB power amplifier . Lately this federal agency has stepped up its combat against the sale of these illegal amplifiers.

Some time ago a US road side truckers-centre selling illegal devices was heavily fined.

Frank   GM0CSZ / KN6WH

```
From -6722902955670806002
X-Google-Thread: 106d41,5122787e31a0c56d
X-Google-Thread: 110aca,5122787e31a0c56d
X-Google-Thread: 108122,5122787e31a0c56d
X-Google-Thread: fc2a5,5122787e31a0c56d
X-Google-Attributes: gid106d41,gid110aca,gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-xxxfer.readnews.com!news-out.readnews.com!
postnews3.readnews.com!nr2.newsreader.com.POSTED!not-for-mail
Subject: Re: What happened to the SkyWave?
From: Steveo <moparholic@hotmail.com>
Organization: .
Message-ID: <20070426065339.443$BN@newsreader.com>
Newsgroups:
rec.radio.cb,alt.autos.nissan,rec.radio.amateur.equipment,rec.radio.amateur.homebr
ew
References: <462f9213$0$5785$4c368faf@roadrunner.com>
<462ff54e$0$19471$4c368faf@roadrunner.com>
X-NRC-Trace: NewsReader.Com a0es+S=zM@,9o6dbQk=3J.B1z5fk,e=gXk_AwlWcSIOl_+
Date: 26 Apr 2007 10:53:38 GMT
Lines: 15
NNTP-Posting-Host: 159ec0be.nr2.newsreader.com
X-Trace: DXC=1bj9FUMZQn^]0?
N89@O=9^OA8_@f\K_iRaQ6g14UKj>Z=d:B<KJQIQQNd7biGRhQTWYA@MLbHKH8]aKjiDb[]nHX
X-Complaints-To: abuse@newsreader.com
Xref: g2news1.google.com rec.radio.cb:35619 alt.autos.nissan:11624
rec.radio.amateur.equipment:11909 rec.radio.amateur.homebrew:13119

"Yo Mamma" <cantemailme@uranus.com> wrote:
> "Mike Hunt" <mh@invalid.net> wrote in message
> news:462f9213$0$5785$4c368faf@roadrunner.com...
> > SkyWave 2879ABTC - RF Linear Amplifier
> >
> > STATUS - Discontinued April 2007
> >
> > http://www.telstar-electronics.com/default_files/productsupport.htm
> >
> > lol lol lol lol lol lol lol lol lol lol lol lol
> >
>
> Gee, ya think sales could be the reason? LOLOLOLOLOLOLOL!!!!
>
Yep, apparently the same with his turn signal blinker. "LOL"


From -1088979631408644456
X-Google-Thread: fc2a5,5b5d8d70d14e3836
X-Google-Thread: fc8b1,5b5d8d70d14e3836
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news1.google.com!news3.google.com!proxad.net!newsfeed1.ip.tiscali.net!
tiscali!transit1.news.tiscali.nl!transit.news.xs4all.nl!xs4all!news2.euro.net!
multikabel.net!feed20.multikabel.net!sn-xt-ams-06!sn-xt-ams-05!sn-ams!sn-feed-
ams-01!sn-post-ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Smokey" <telegrapher@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Viking Adventurer
Date: Thu, 26 Apr 2007 09:27:50 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1331dqfc9g19l7c@corp.supernews.com>
Reply-To: "Smokey" <telegrapher@hotmail.com>
References: <132t82thgeesid3@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1437
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1441
X-Complaints-To: abuse@supernews.com
Lines: 16
Xref: g2news1.google.com rec.radio.amateur.homebrew:13120
rec.radio.amateur.boatanchors:11417

Hi'ya Jack,

My Viking Adventurer is on the air nightly. In fact for over 2 years it has been my "primary" rig and that is using only crystal control.

I am sure you can find the parts list on BAMA but if not send me an SASE (via my QRZ.com address) and I will photocopy it for you.

Good luck.

ZUT es 73,

Vern W9STB - WPE9GHF
telegrapher@hotmail.com

From 1733596203244876984
X-Google-Thread: 106d41,5122787e31a0c56d
X-Google-Thread: 110aca,5122787e31a0c56d
X-Google-Thread: 108122,5122787e31a0c56d
X-Google-Thread: fc2a5,5122787e31a0c56d
X-Google-Attributes: gid106d41,gid110aca,gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!913ebda8!not-for-mail
From: james <george@washington.edu>
Newsgroups:
rec.radio.cb,alt.autos.nissan,rec.radio.amateur.equipment,rec.radio.amateur.homebrew

Subject: Re: What happened to the SkyWave?
Reply-To: beerkeg@budu.edu
Message-ID: <ibi13394eb29j4q18bahlh3co84pu47gd3@4ax.com>
References: <462f9213$0$5785$4c368faf@roadrunner.com>
<462ff54e$0$19471$4c368faf@roadrunner.com> <8tqdnW_Ff_OR763bRVnyvgA@pipex.net>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 37
Date: Thu, 26 Apr 2007 15:51:08 GMT
NNTP-Posting-Host: 72.91.132.22
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1177602668 72.91.132.22 (Thu, 26 Apr 2007 08:51:08 PDT)
NNTP-Posting-Date: Thu, 26 Apr 2007 08:51:08 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.cb:35622 alt.autos.nissan:11625
rec.radio.amateur.equipment:11912 rec.radio.amateur.homebrew:13121

On Thu, 26 Apr 2007 10:33:09 -0400, Highland Ham
<abcgm0csz.kn6whxyz@dsl.pipex.com> wrote:

>+++Yo Mamma wrote:
>+++>
>+++> "Mike Hunt" <mh@invalid.net> wrote in message
>+++> news:462f9213$0$5785$4c368faf@roadrunner.com...
>+++>> SkyWave 2879ABTC - RF Linear Amplifier
>+++>>
>+++>> STATUS - Discontinued April 2007
>+++>>
>+++>> http://www.telstar-electronics.com/default_files/productsupport.htm
>+++>>
>+++>> lol lol lol lol lol lol lol lol lol lol lol lol
>+++>>
>+++>
>+++> Gee, ya think sales could be the reason? LOLOLOLOLOLOLOL!!!!
>+++================================
>+++The likely reason is that the FCC considers the device a CB power
>+++amplifier . Lately this federal agency has stepped up its combat against
>+++ the sale of these illegal amplifiers.
>+++
>+++Some time ago a US road side truckers-centre selling illegal devices
>+++was heavily fined.
>+++
>+++Frank   GM0CSZ / KN6WH
****

Considering his retail outlet, Ebay, has blocked every attempt to sell the product, His sales has probably been rather low. Thus not profitable. Also the fact that the amp is rather low powered for most "competition" CBers and with the plethera of older 100+ plus ham rigs out on the market, there is not a large market for his amp. Who needs

an five watt radio, and a 100 watt amp to drive a big competion amp
when you can get a Kenwood TS440 or similar and use it.

james

From -809459493385329641
X-Google-Thread: fc2a5,5b5d8d70d14e3836
X-Google-Thread: fc8b1,5b5d8d70d14e3836
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!o40g2000prh.googlegroups.com!not-for-mail
From: N2EY@AOL.COM
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Viking Adventurer
Date: 26 Apr 2007 15:11:40 -0700
Organization: http://groups.google.com
Lines: 20
Message-ID: <1177625500.823475.55350@o40g2000prh.googlegroups.com>
References: <132t82thgeesid3@corp.supernews.com>
NNTP-Posting-Host: 64.12.116.144
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1177625508 12575 127.0.0.1 (26 Apr 2007 22:11:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Apr 2007 22:11:48 +0000 (UTC)
In-Reply-To: <132t82thgeesid3@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 Turboweb [mtc-tc092 8.4.1], HTTP/1.1 cache-mtc-ac15.proxy.aol.com[400C7490] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: o40g2000prh.googlegroups.com; posting-host=64.12.116.144;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news1.google.com rec.radio.amateur.homebrew:13122
rec.radio.amateur.boatanchors:11422

On Apr 24, 8:27=EF=BF=BDpm, Jack Schmidling <a...@mc.net> wrote:
> My next project is an RF exciter for my 8000 rig.
>
> For sentimental reasons, an 807 must be part of it.

COOL!

>
> In browsing around, I find the Viking Adventurer to be just about what I
> =A0 want to do. =A0I found the schematic on BAMA but they do not seem to
> have the parts list which would save a lot of trouble.
>
> Does anyone have this or know where I can get it?

>

I've got the whole manual in GIF format.

Drop me an email and I'll send it along.

73 de Jim, N2EY

```
From -1795906800491061358
X-Google-Thread: fc2a5,5b5d8d70d14e3836
X-Google-Thread: fc8b1,5b5d8d70d14e3836
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out02b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!
in02.usenetserver.com!news.usenetserver.com!cycny01.gnilink.net!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe16.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
References: <132t82thgeesid3@corp.supernews.com>
Subject: Re: Viking Adventurer
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <tRaYh.18217$2Q1.560@newsfe16.lga>
Date: Thu, 26 Apr 2007 19:46:17 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe16.lga 1177631193 68.0.230.122 (Thu, 26 Apr 2007 16:46:33 MST)
NNTP-Posting-Date: Thu, 26 Apr 2007 16:46:33 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13123
rec.radio.amateur.boatanchors:11424
```

"Jack Schmidling" <arf@mc.net> wrote in message
news:132t82thgeesid3@corp.supernews.com...

> My next project is an RF exciter for my 8000 rig.
>
> For sentimental reasons, an 807 must be part of it.
>
> In browsing around, I find the Viking Adventurer to be just about what I
> want to do. I found the schematic on BAMA but they do not seem to have
> the parts list which would save a lot of trouble.
>
> Does anyone have this or know where I can get it?
>
> Thanks,

>
> JACK K9ACT   http://schmidling.com/radio.htm
>
>
>
> --

The Knight T-50 and I think Heath's AT-1 also used the venerable
807 in the PA.

Pete

```
From 8230524821028732414
X-Google-Thread: fc2a5,5b5d8d70d14e3836
X-Google-Thread: fc8b1,5b5d8d70d14e3836
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 26 Apr 2007 19:42:29 -0500
From: Danny Richardson <n_group@k6mhe.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Viking Adventurer
Date: Thu, 26 Apr 2007 17:42:50 -0700
Message-ID: <klh233l5en0ps2d8lmpi884qneeeil52pm@4ax.com>
References: <132t82thgeesid3@corp.supernews.com>
<tRaYh.18217$2Q1.560@newsfe16.lga>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 18
NNTP-Posting-Host: 76.102.205.36
X-Trace: sv3-
DmgRdkNgzNN0LrJYVSLjdCblicUNssuWGgMYC91pLGz6JSams+TSlLaGEUcNwvQjT4B0zvnMwhDJzym!
DiO6v3xA1yHRxjcwxGnkUIOmF6exTzy9MDXK0GaeqcN+V/jgIUArJnSkj50PTeTRtIZgqD5OaW1d!
Kohnrevr+SRWr9czmsXinZINIZE=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13124
rec.radio.amateur.boatanchors:11425
```

On Thu, 26 Apr 2007 19:46:17 -0400, "Uncle Peter"
<radioconnection@cox.net> wrote:

>The Knight T-50 and I think Heath's AT-1 also used the venerable
>807 in the PA.
>
>Pete

The Heathkit AT-1 used a 6L6.

Been there in my novice days. <G>

http:www.k6mhe.com

Danny, K6MHE

```
From -2103216399700408156
X-Google-Thread: fc2a5,5b5d8d70d14e3836
X-Google-Thread: fc8b1,5b5d8d70d14e3836
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe23.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
References: <132t82thgeesid3@corp.supernews.com>
<tRaYh.18217$2Q1.560@newsfe16.lga> <klh233l5en0ps2d8lmpi884qneeeil52pm@4ax.com>
Subject: Re: Viking Adventurer
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <GIbYh.59086$NK5.36308@newsfe23.lga>
Date: Thu, 26 Apr 2007 20:45:09 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe23.lga 1177634726 68.0.230.122 (Thu, 26 Apr 2007 17:45:26 MST)
NNTP-Posting-Date: Thu, 26 Apr 2007 17:45:26 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13125
rec.radio.amateur.boatanchors:11426
```

"Danny Richardson" <n_group@k6mhe.com> wrote in message
news:klh233l5en0ps2d8lmpi884qneeeil52pm@4ax.com...
> On Thu, 26 Apr 2007 19:46:17 -0400, "Uncle Peter"
> <radioconnection@cox.net> wrote:
>
>>The Knight T-50 and I think Heath's AT-1 also used the venerable

```
>>807 in the PA.
>>
>>Pete
>
> The Heathkit AT-1 used a 6L6.
>
> Been there in my novice days. <G>
>
> http:www.k6mhe.com
>
> Danny, K6MHE
>
>
Glad I qualified it with an "I think...."  Thanks for the correction.




From 240952069290803882
X-Google-Thread: fc2a5,77f7a91dbb4fee,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!4e73252e!not-for-mail
From: "Richard W. Solomon, W1KSZ" <w1ksz@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FS: NORTEL NTAX96PA 902 MHz Amplifier
Reply-To: w1ksz@earthlink.net
Message-ID: <0n44339lakt1u9qpo9ae2kkct1o235mg9i@4ax.com>
X-Newsreader: Forte Free Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 7
Date: Fri, 27 Apr 2007 15:12:39 GMT
NNTP-Posting-Host: 24.41.20.11
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1177686759 24.41.20.11 (Fri, 27 Apr 2007
08:12:39 PDT)
NNTP-Posting-Date: Fri, 27 Apr 2007 08:12:39 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13126

Looks unused, in original box. With conversion data (simple),
will do 100 Watts out with 10 mW in at 902 MHz.
Nice amp for 902 weak signal work.

$75 plus UPS from 02421.

Thanks, Dick, W1KSZ
```

From -2868915065661469864
X-Google-Thread: 106d41,5122787e31a0c56d
X-Google-Thread: 110aca,5122787e31a0c56d
X-Google-Thread: 108122,5122787e31a0c56d
X-Google-Thread: fc2a5,5122787e31a0c56d
X-Google-Attributes: gid106d41,gid110aca,gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Mike Hunt" <mh@invalid.net>
Newsgroups:
rec.radio.cb,alt.autos.nissan,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <462f9213$0$5785$4c368faf@roadrunner.com>
<462ff54e$0$19471$4c368faf@roadrunner.com> <8tqdnW_Ff_OR763bRVnyvgA@pipex.net>
<ibi13394eb29j4q18bahlh3co84pu47gd3@4ax.com>
<1177613826.558864.90100@t38g2000prd.googlegroups.com>
Subject: Re: What happened to the SkyWave?
Date: Fri, 27 Apr 2007 15:05:28 -0400
Organization: truth and reason
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Antivirus: avast! (VPS 000736-2, 04/26/2007), Outbound message
X-Antivirus-Status: Clean
Lines: 28
Message-ID: <46324981$0$9937$4c368faf@roadrunner.com>
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.cb:35643 alt.autos.nissan:11630
rec.radio.amateur.equipment:11918 rec.radio.amateur.homebrew:13127

"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
news:1177613826.558864.90100@t38g2000prd.googlegroups.com...
> On Apr 26, 10:51 am, james <geo...@washington.edu> wrote:
>> Considering his retail outlet, Ebay, has blocked every attempt to sell
>> the product, His sales has probably been rather low. Thus not
>> profitable. Also the fact that the amp is rather low powered for most
>> "competition" CBers and with the plethera of older 100+ plus ham rigs
>> out on the market, there is not a large market for his amp. Who needs
>> an five watt radio, and a 100 watt amp to drive a big competion amp
>> when you can get a Kenwood TS440 or similar and use it.
>
> Always good to hear from James the student...
> He's been attending college going on 17 years now.
> Maybe some day he'll get his bachelors degree.
>
> www.telstar-electronics.com
>
Your mom should kick you out of her basement now that another of your get

rich quick scams has failed Brian.

Skywave CB amplifier released October 2006

Skywave CB amplifier discontinued April 2007

LOL LOL LOL LOL LOL LOL

```
From 4962906292978719764
X-Google-Thread: fc2a5,787adc73851bb77a,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o5g2000hsb.googlegroups.com!not-for-
mail
From: Javier Anderson <Javanderson@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Introducing New York Near Space Research (NYNSR)
Date: 28 Apr 2007 20:11:30 -0700
Organization: http://groups.google.com
Lines: 15
Message-ID: <1177816290.386234.250210@o5g2000hsb.googlegroups.com>
NNTP-Posting-Host: 68.198.137.191
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1177816291 30560 127.0.0.1 (29 Apr 2007 03:11:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 29 Apr 2007 03:11:31 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o5g2000hsb.googlegroups.com; posting-host=68.198.137.191;
   posting-account=8zIW8Q0AAAC700cCA5AGduousxo3Yhi2
Xref: g2news1.google.com rec.radio.amateur.homebrew:13128
```

The Irvington High School Science Club is announcing the creation of a New High Altitude Balloon group. High Altitude Balloons are Helium filled latex balloons that fly at altitudes higher then 85,000 feet (some make it to over 140,000 ft). Amateur Radio is used to track the balloons during the flight and after landing The group will be called "New York Near Space Research" or NYNSR for short and will be conducting flights by late Spring next year in the Lower Hudson Valley. We are hoping to have a website purchased by the end of this weekend and have some more information available. We have started a public Google group under the name New York Near Space Research already and you may join if you like.

73 to all,
Javier Anderson, KC2MFC

```
From -4842796579281849229
X-Google-Thread: 10db18,73af7bab21256cea,start
X-Google-Thread: f4535,73af7bab21256cea,start
X-Google-Thread: fc2a5,73af7bab21256cea,start
X-Google-Thread: 10c85b,73af7bab21256cea,start
X-Google-Attributes: gid10db18,gidf4535,gidfc2a5,gid10c85b,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!u30g2000hsc.googlegroups.com!not-for-
mail
From: servis_za_elektroniku@yahoo.com
Newsgroups:
rec.audio.marketplace,rec.audio.tubes,rec.radio.amateur.homebrew,alt.guitar.amps
Subject: FS: Paper oil, silver mica, dorknoob capacitors - LEMCO, SIEMENS
Date: 30 Apr 2007 00:31:41 -0700
Organization: http://groups.google.com
Lines: 2
Message-ID: <1177918301.697006.23110@u30g2000hsc.googlegroups.com>
NNTP-Posting-Host: 194.247.204.15
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1177918302 15661 127.0.0.1 (30 Apr 2007 07:31:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 30 Apr 2007 07:31:42 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: u30g2000hsc.googlegroups.com; posting-host=194.247.204.15;
   posting-account=yz2JJQwAAAAXrWKPmFvtuD1W2ZNYvvKm
Xref: g2news1.google.com rec.audio.marketplace:8551 rec.audio.tubes:37291
rec.radio.amateur.homebrew:13129 alt.guitar.amps:150909

On eBay http://stores.ebay.com/fm-tx



From 3601093926047431657
X-Google-Thread: fc2a5,cf6dd909f3daf044
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l77g2000hsb.googlegroups.com!not-for-
mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power Rheostat Question..
Date: 30 Apr 2007 02:19:12 -0700
Organization: http://groups.google.com
Lines: 78
Message-ID: <1177924752.115251.232070@l77g2000hsb.googlegroups.com>
References: <QjTUh.521278$Ju2.450125@newsfe16.lga>
   <pbidnQW9E8S2LLnbRVnyugA@pipex.net>
   <1177052527.644877.176910@p77g2000hsh.googlegroups.com>
   <Ai9Wh.147078$Pi4.64561@newsfe14.lga>
   <1177113344.506712.187140@b75g2000hsg.googlegroups.com>
NNTP-Posting-Host: 89.211.4.3
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1177924752 31806 127.0.0.1 (30 Apr 2007 09:19:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 30 Apr 2007 09:19:12 +0000 (UTC)
In-Reply-To: <1177113344.506712.187140@b75g2000hsg.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l77g2000hsb.googlegroups.com; posting-host=89.211.4.3;
   posting-account=J8f3NA0AAAApayX7upsAHyq0lPJRDLXM
Xref: g2news1.google.com rec.radio.amateur.homebrew:13130

On Apr 21, 2:55 am, K7ITM <k...@msn.com> wrote:
> On Apr 20, 1:22 pm, "Uncle Peter" <radioconnect...@cox.net> wrote:
>
>
>
>
>
> > "terry" <tsanf...@nf.sympatico.ca> wrote in message
>
> >news:1177052527.644877.176910@p77g2000hsh.googlegroups.com...
>
> > > On Apr 17, 2:35 pm, Highland Ham <abcgm0csz.kn6wh...@dsl.pipex.com>
> > > wrote:
> > >> Uncle Peter wrote:
> > >> > Does reducing the resistance affect the wattage rating
> > >> > of a power rheostat? I'd imagine it does, but I'm not
> > >> > sure how it would be derated..
>
> > > That's logical.
> > > But just to nit-pick! :-)
> > > Got one of those ceramic tubular adjustable slide resistors. Rated at
> > > 300 watts IIRC.
> > > If I put the slider half way along I will have half the resistance
> > > wire in the circuit and dissipating heat at full current rating;
> > > correct?
> > > But still the same thermal mass of ceramic and metal. So could one
> > > perhaps argue that it might be 'slightly' (very slightly perhaps) a
> > > little more than half the power rating. Probably nothing to have any
> > > effect whatsoever in practice because one would not run a component at
> > > maximum rating at any setting anyway?
>
> > Hi Terry
>
> > That's what I was wondering, the mass of the heatsink
> > the windings are on  should have a bearing on
```

> > the wattage... Lacking manufacturer data I guess it
> > is a moot point and I'll take a conservative tack..
>
> > Pete
>
> The manufacturers, all I've ever seen, take that conservative tack and
> just put a maximum current rating on them. In the case of a rheostat,
> you need to consider the rating of the slider, and I'll bet you get
> longer slider life if you adjust it when the current is zero than when
> it's the full rated value.
>
> What Terry wrote has a lot of merit. In fact, with the tubular
> ceramics with a hollow core, you could quite reasonably get more
> dissipation with a given temperature rise if you orient the resistor
> vertically in free air, as opposed to horizontally, since it acts like
> a stack and will get considerable air flowing by virtue of the heat.
> If you REALLY wanted to optimize such a resistor, you'd space the
> turns further apart on the end that was going to be on top! Also, I
> can tell you that little 0603 surface mount resistors, nominally rated
> at 1/16 watt, can dissipate a whole lot more (1/4 watt!) than that if
> you keep other heat dissipators away from them and provide wide copper
> paths to lead the heat away from them; but on the othe hand if you put
> a whole mess of them as close together as your design rules let you
> and ask each to dissipate the same power, you'll find you may not be
> able to go above 1/100 of a watt each without getting them too hot.
> So not only does the amount of the rheostat in actual use make a
> difference, it makes a difference how you cool it. Turn a fan on it
> and don't adjust it while it's got current through it, and you MAY be
> able to safely add 40% over its current rating. YMMV, though. You
> know what to do to be conservative.
>
> Cheers,
> Tom- Hide quoted text -
>
> - Show quoted text -

Hadn't thought of the vertical Tom. But good point. I do recall years
ago, seeing vertically mounted ones used as stage light dimmers, now
that you mention. Fans good idea too. While all of this was a reaction
to the original basic question; interesting how one idea leads to
another, eh?
Regards.

From 2332210631509478370
X-Google-Thread: fc2a5,37190e82bed2a18a,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-sjc-09!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew

Subject: Computer Grade
Date: Mon, 30 Apr 2007 06:28:17 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <133bo782iag5q70@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 15
Xref: g2news1.google.com rec.radio.amateur.homebrew:13131

I keep seeing caps described as "computer grade" but a search for a definition comes up with zilch.

What does this mean? As the vast majority of computers are owned by the masses, one could assume it means sleazy consumer quality. Or it could mean the kind of computer that prevents ICBM's from being accidentally launched.

Which is it?

JACK K9ACT

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

From -5344935184871374274
X-Google-Thread: fc2a5,37190e82bed2a18a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 30 Apr 2007 09:49:53 -0500
Date: Mon, 30 Apr 2007 07:52:54 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Computer Grade
References: <133bo782iag5q70@corp.supernews.com>
In-Reply-To: <133bo782iag5q70@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <8OadnYQ7c_2Mn6vbnZ2dnUVZ_q7inZ2d@web-ster.com>
Lines: 34
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-tqeFRH4TNiGMU2dcGyOuEzn8vwXW2+LHzh9DzEUK0SWpuFsRr0ZSsvqMbTLDFeIcflrF2p4hgqR7EIl!

```
N42ovSx/nHi3MAhQdaIGaElWlHh43BeIH1jByk2KbyJccxMV58tJFkI/ORIRlPzLobFOlKjpEhjI!
0iSwqKn+vHc+9/k2
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13132
```

Jack Schmidling wrote:

> I keep seeing caps described as "computer grade" but a search for a
> definition comes up with zilch.
>
> What does this mean? As the vast majority of computers are owned by the
> masses, one could assume it means sleazy consumer quality. Or it could
> mean the kind of computer that prevents ICBM's from being accidentally
> launched.
>
> Which is it?
>
> JACK K9ACT
>

The name has been around for much longer than PC's, so I assume that it
means _mainframe_ computer grade -- today we'd say "server grade", I guess.

At any rate, if it has no legal meaning then it could be a total lie and
no one would be subject to any legal penalties (marketplace penalties
are another matter).

I have always taken it to mean _really_ _good_, but you'd have to go
over the specs to see, then extend some trust to the manufacturer.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From 6169702433973628949
X-Google-Thread: fc2a5,f884318b2acc8245,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feed.cgocable.net!
read2.cgocable.net.POSTED!53ab2750!not-for-mail
From: Ian Smith <rapids@cogeco.ca>
```

```
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Help for old homebrew ?1930s
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 10
Message-ID: <JznZh.19788$Uq.18013@read2.cgocable.net>
Date: Mon, 30 Apr 2007 11:04:21 -0400
NNTP-Posting-Host: 24.57.134.84
X-Complaints-To: news@cogeco.net
X-Trace: read2.cgocable.net 1177945449 24.57.134.84 (Mon, 30 Apr 2007 11:04:09
EDT)
NNTP-Posting-Date: Mon, 30 Apr 2007 11:04:09 EDT
Organization: Cogeco Cable
Xref: g2news1.google.com rec.radio.amateur.homebrew:13133
```

Hi,
I have just acquired an old home brew radio. It is a 5 tube
regenerative receiver. The tubes as best I can make out are
Cossor 215P BVA, Mullard PM1HLx2, Mullard PM2DX and a Mullard 2M1HF.

Does this ring a bell with anyone. Does anyone have or can point me to
Schematic.

Many thanks
Ian

```
From -5461218312849783064
X-Google-Thread: fc2a5,37190e82bed2a18a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!volia.net!news2.volia.net!
dedekind.zen.co.uk!zen.net.uk!hamilton.zen.co.uk!feed4.jnfs.ja.net!jnfs.ja.net!
feeder.news.heanet.ie!news.indigo.ie!not-for-mail
From: Eamon Skelton <Xnospam@oceanfree.net>
Subject: Re: Computer Grade
Newsgroups: rec.radio.amateur.homebrew
References: <133bo782iag5q70@corp.supernews.com>
User-Agent: pan 0.119 (Karma Hunters)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 15
Message-ID: <1OnZh.19291$j7.373207@news.indigo.ie>
Date: Mon, 30 Apr 2007 15:19:25 GMT
NNTP-Posting-Host: 159.134.98.205
X-Complaints-To: abuse@eircom.net
X-Trace: news.indigo.ie 1177946365 159.134.98.205 (Mon, 30 Apr 2007 16:19:25 BST)
NNTP-Posting-Date: Mon, 30 Apr 2007 16:19:25 BST
Organization: Eircom.Net http://www.eircom.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13134
```

On Mon, 30 Apr 2007 06:28:17 -0600, Jack Schmidling wrote:

> What does this mean?

Not a lot. It is just one of those meaningless terms
like military spec.

This is what passes for 'computer grade' these days:
http://www.badcaps.net/ident/

73, Ed. EI9GQ.

--
Linux 2.6.18

From 8944164894202164894
X-Google-Thread: fc2a5,37190e82bed2a18a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.stanford.edu!news.kjsl.com!
ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Computer Grade
Date: 30 Apr 2007 16:31:43 GMT
Organization: The National Capital FreeNet
Lines: 40
Message-ID: <f155lf$52v$1@theodyn.ncf.ca>
References: <133bo782iag5q70@corp.supernews.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1177950703 5215 134.117.136.48 (30 Apr 2007 16:31:43 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 30 Apr 2007 16:31:43 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13135

Jack Schmidling (arf@mc.net) writes:
> I keep seeing caps described as "computer grade" but a search for a
> definition comes up with zilch.
>
> What does this mean? As the vast majority of computers are owned by the
> masses, one could assume it means sleazy consumer quality. Or it could
> mean the kind of computer that prevents ICBM's from being accidentally
> launched.
>

The term was around in the early seventies, at least. That was when
solid state was still relatively new, and electrolytics were not
as advanced as nowadays. I built 1A power supply in the fall of 1972,
and had found at a hamfest a "computer grade" electrolytic, in a
metal can,10,000uF at about 20 volts. It was about the size of a Coke can.

It was pretty massive in terms of capacitance at the time, the regular electrolyitics were hard to find in such large values, and even this one was barely sufficient in terms of voltage rating.

It was obviously surplus, from mainframe computers. I have no clue whether they were particularly better than the regular electrolyitics, but they were obviously the source for larger value filter caps at the time. I'm sure some of it was merely hype, at the very least "computer grade" says where the capacitors came from.

It's obviously different now. I can easily get 10,000uF electrolytics in a far smaller package and with a bigger voltage rating. I haven't evne noticed the term in a long time, other than the occasional question about the term (it has come up before here or in one of the sci.electronics.* newsgroups.

There obviously are different grades of electrolytics, with things like temperature rating being important in some applications, and ESR being important in others (especially things like switching supplies where they have to deal with higher frequency waveforms). But the talk is in terms of their specs, rather than some mythical "computer grade" capacitor.

  Michael VE2BVW

```
From -6910835848386356305
X-Google-Thread: fc2a5,8d3823efde0ae903,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y5g2000hsa.googlegroups.com!not-for-
mail
From: bigorangebus <bigorangebus@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Advice on the art of radio design, local oscillators and filters etc
Date: 30 Apr 2007 09:59:50 -0700
Organization: http://groups.google.com
Lines: 30
Message-ID: <1177952390.073163.224680@y5g2000hsa.googlegroups.com>
NNTP-Posting-Host: 88.109.250.128
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1177952390 9461 127.0.0.1 (30 Apr 2007 16:59:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 30 Apr 2007 16:59:50 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.8.0.11)
Gecko/20070312 Firefox/1.5.0.11,gzip(gfe),gzip(gfe)
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Injection-Info: y5g2000hsa.googlegroups.com; posting-host=88.109.250.128;
   posting-account=GgpxRw0AAAAn_Rwf5JEWRtzcrHns9Fjj
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:13136

I'm a professional electronics engineer (not rf enginneer though), and what I really find frustrating about radio projects is the uncertainty!

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From 8152487121121664205
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X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Mon, 30 Apr 2007 12:11:30 -0500
Date: Mon, 30 Apr 2007 10:14:31 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Advice on the art of radio design, local oscillators and filters etc
References: <1177952390.073163.224680@y5g2000hsa.googlegroups.com>
In-Reply-To: <1177952390.073163.224680@y5g2000hsa.googlegroups.com>
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Content-Transfer-Encoding: 7bit

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X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13137

bigorangebus wrote:
> I'm a professional electronics engineer (not rf enginneer though), and
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>
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> radio design arena?  Are there hidden secrets that nobody tells and
> the books omit? I'm not thinking about PCB layout here, more things
> like, are simulation programs of any use (if so which ones) and what
> kind of design procedures can result in predicatable results?
>
* Model your parasitics, including circuit-layout induced ones.
   * Remember that _everything_ has parasitics if the frequency
     is high enough.
* Transistor models are never perfect; you need ones intended for
   use at your frequencies.  RF transistors should have models that
   include package effects.
* Tightly laying out your circuit board will reduce inductances
   but increase capacitances.
```

- There are (very spendy) packages that will do parasitic analysis of your PCB layouts that you can then run through spice.

It is an art, and one that I haven't mastered myself, but you can put a lot of science into it if you're careful.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From 4233578771679834973
X-Google-Thread: fc2a5,37190e82bed2a18a
X-Google-Attributes: gidfc2a5,public
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sn-xt-ams-03!sn-ams!sn-feed-ams-01!sn-post-ams-02!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: "john graesser" <graesser@tca.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Computer Grade
Date: Mon, 30 Apr 2007 14:09:32 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <133cfkthg7u5p6b@corp.supernews.com>
References: <133bo782iag5q70@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
X-Complaints-To: abuse@supernews.com
Lines: 28
Xref: g2news1.google.com rec.radio.amateur.homebrew:13138

"Jack Schmidling" <arf@mc.net> wrote in message
news:133bo782iag5q70@corp.supernews.com...
> I keep seeing caps described as "computer grade" but a search for a
> definition comes up with zilch.
>
> What does this mean? As the vast majority of computers are owned by the
> masses, one could assume it means sleazy consumer quality. Or it could
> mean the kind of computer that prevents ICBM's from being accidentally

> launched.
>
> Which is it?
>
> JACK K9ACT

I first ran into computer grade caps back in the 1970's, back when I was building my first homebuilt computer (before the masses owned computers), I considered it a pejorative, in that it was only good for building power supplies for computers. Would it be be better if it said low voltage dc power supply caps? Those big coke can sized caps made great smoothing caps, along with some smaller caps they could knock ripple down to where you needed an oscope to see it. Just don't build a supply with that as the only cap on the output, they are ok on low freq swings, but also add a 1k and 10 uf cap to help clean up the rest of the ripple.
thanks John.
KC5DWD

From 118902208113655377
X-Google-Thread: fc2a5,20f20834d63a0fb6
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
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From: "john graesser" <graesser@tca.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CAPACITORS
Date: Mon, 30 Apr 2007 14:19:42 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <133cg7v2rlvat05@corp.supernews.com>
References: <jbednfW6jNl1PbDbnZ2dnUVZ_q6vnZ2d@adelphia.com>
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X-MSMail-Priority: Normal
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
X-Complaints-To: abuse@supernews.com
Lines: 37
Xref: g2news1.google.com rec.radio.amateur.homebrew:13139

"John Doe" <hgorden@adelphia.net> wrote in message
news:jbednfW6jNl1PbDbnZ2dnUVZ_q6vnZ2d@adelphia.com...
> Quite A number of (Years or Moons ago) depending on how you keep track of
> time, someone came to one of the hamfests in Gaithersburg, Maryland, in a
> large box
> type of truck, and mounted on top of the truck was a CAPACITOR CANNON of
> sorts.
>

> I think that I need to clarify a bit - apparently the capacitors did not
> really explode, but SNAPPED IN DISCHARGE STATE causing a louder than life
> noise, and could be recharged to do it continuously.
>
> At a push of a button this object sounded like a number of VERY LARGE
CHERRY
> BOMBS going off in succession.
>
> Yes - it was an attention getter.
>
> Does anybody else remember this device and or have a schematic for it?

There is, or was a site on the internet that had these sorts of high energy items. Tesla coils, magnetic coin mashers, capacitive discharge banks (which sounds like what you are describing) etc.

Basically you are going to charge up a whole passle of high voltage caps then short the output so that you create a minature lightning bolt, thus the boom. Too dangerous for me. Not to mention the amount of magnetic pulse you are going to let off right close to the audience's cell phones, laptops, handhelds, etc. I wouldn't want the bill for repairing everyone's electronics after you scramble them.

thanks, John.
KC5DWD

```
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X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!newsread.com.MISMATCH!
transit3.readnews.com!news-out.readnews.com!panix!panix1.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Advice on the art of radio design, local oscillators and filters
 etc
Date: Mon, 30 Apr 2007 15:47:01 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 88
Message-ID: <Pine.NEB.4.64.0704301526040.14979@panix1.panix.com>
References: <1177952390.073163.224680@y5g2000hsa.googlegroups.com>
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NNTP-Posting-Date: Mon, 30 Apr 2007 19:47:02 +0000 (UTC)
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In-Reply-To: <1177952390.073163.224680@y5g2000hsa.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:13140

On Mon, 30 Apr 2007, bigorangebus wrote:

> I'm a professional electronics engineer (not rf enginneer though), and what I really find frustrating about radio projects is the uncertainty!

I am a real _amateur_ ham operator. I _love_ to make homebrew stuff but with tubes (not solid state), and will offer MY version of your story.

> I spend hours designing and analysing filters. Designing oscillators and minimising harmonics, noise etc. Then I cheerfully commit it to a PCB (I tightly laid out surface mount PCB to minimise layout inductances etc).

I do tinkering (not _engineering_), and do pretty sloppy, ugly, breadboard construction of:

1. the real thing
2. only a small part of the whole project at a time
3. turn on "the juice" for the smoke test: results: 1-smoke and no action (then scratch head), 2-no smoke but action (cigars for all), or 3-no smoke & no action (also scratch head). There are variations on this. Beyond the scope of this post.

> Nothing ever works as simulated. Transistors never have the rf gain as SPICE seems to suggest.

Decades ago I built, in a physics research lab on a university campus, several dual-delay line pulse amplifiers (5-6 tubes, fancy delay lines). All identical parts, identical schematic, identical tubes. One of these amplifiers put out a trailing spike that was not supposed to be there. I tried everything to figure out where it came from. I spent weeks on this. Finally, I put in a bypass cap that was not supposed to be there and that fixed it. Told the boss about all this. He shrugged his shoulders.

> And local oscillators...well carefully chosen components just get thrown out the window to be replaced by more and more random changes in component values.

I have found commercially made components that were crap. eg. Precision resistors 20% off value. Parts dead out of the box.

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The object of the game is to get stuff that works and forget the castles in the sky. Oh, yes, I worked at a place where another guy--making very

very very fancy-schmantzy stuff--built a circuit according to "plan" and it didn't work either. Much cussing, grunting, cussing, yelling-and-shouting-and-huffing-and-puffing and in the end, I recall that they pulled a kludge fix, too.

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I don't know about _you_, but for me, I do better when I build small parts of the whole thing, then test them individually, and I have minimum test equipment (oscilloscope, meters, signal generators) and you can put inputs, measure outputs, measure voltage & currents, and tinker and adjust as you go.

You sometime have to test the part separately from the circuit to actually prove to yourself that it really does work. Its a big pain, but it makes you check everything.

You might ask yourself if you are assembling things with good techniques (yes--I kid you not--I have actually run into people who did not know that you had to strip the insulation, whether enamel or plastic, off of wires before putting them into sockets or clips) including soldering technique.

Oh, yes, since I work with tubes that run hundreds of volts on the plates-screens, yes, I've gotten a few electrical shocks (they hurt, and at higher current, burn flesh) but also be careful about not having a finger from each hand in contact with "hot" metal conductors. High power RF also burns flesh and feels like heat rather than pain and you might smell burnt flesh (its terrible) before you feel anything.

From 2586484885616506378
X-Google-Thread: fc2a5,8d3823efde0ae903
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-mail
From: bigorangebus <bigorangebus@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Advice on the art of radio design, local oscillators and filters etc
Date: 30 Apr 2007 14:13:54 -0700
Organization: http://groups.google.com
Lines: 109
Message-ID: <1177967634.548386.260420@q75g2000hsh.googlegroups.com>

References: <1177952390.073163.224680@y5g2000hsa.googlegroups.com>
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Complaints-To: groups-abuse@google.com
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   posting-account=GgpxRw0AAAAn_Rwf5JEWRtzcrHns9Fjj
Xref: g2news1.google.com rec.radio.amateur.homebrew:13141

Excellent...!! Professional engineers also spend a lot of the time in the lab waving their arms in hopes that they can dissipate the smoke before someone runs in to see where the bang came from!

I dont mean to be too highbrow...its just Ive spent so much of my working life ensuring that if you build something on a production line 100,000 times 5% failure is pretty bad. And people obviously build small transistor FM/AM/shortwave radios in china with the worst cheap components...and most of them seem to work of sorts. Though i have designed high end audio amplifiers and each time a new batch of capacitors came in there was lots of "listen tests" as amazingly you really could here 100nF placed on a supply line (dont ask me how...I still dont understand it).

If the pro rf engineers do too much of the "try it and see" approach they deserve their sky high salaries for the loss of hair and frayed nerves waiting for the customer returns from their first 10,000 units!

I did wonder whether selling the car and buying some impressive test equipment would make me feel better ;)

On 30 Apr, 20:47, Straydog <a...@panix.com> wrote:

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From -5686381946564669078
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news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
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Message-ID: <4636667C.8030505@nettally.com>
Date: Mon, 30 Apr 2007 17:58:20 -0400
From: **THE-RFI-EMI-GUY** <rhyolite@nettally.com>
Organization: Central Scrutinizer
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To: hgorden@adelphia.net
Subject: Re: CAPACITORS
References: <jbednfW6jNl1PbDbnZ2dnUVZ_q6vnZ2d@adelphia.com>
In-Reply-To: <jbednfW6jNl1PbDbnZ2dnUVZ_q6vnZ2d@adelphia.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 37
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13142

Look up Marx Generator on Google and see if that descibes the circuit.
Often used to simulate lightning discharge.

John Doe wrote:

>Quite A number of (Years or Moons ago) depending on how you keep track of
>time, someone came to one of the hamfests in Gaithersburg, Maryland, in a
>large box
>type of truck, and mounted on top of the truck was a CAPACITOR CANNON of
>sorts.
>
>I think that I need to clarify a bit - apparently the capacitors did not
>really explode, but SNAPPED IN DISCHARGE STATE causing a louder than life
>noise, and could be recharged to do it continuously.
>
>At a push of a button this object sounded like a number of VERY LARGE CHERRY
>BOMBS going off in succession.
>
>Yes - it was an attention getter.
>
>Does anybody else remember this device and or have a schematic for it?
>
>73's
>
>
>
>

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From -7316644615913177510
X-Google-Thread: fc2a5,8d3823efde0ae903
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix3.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Advice on the art of radio design, local oscillators and filters
 etc
Date: Mon, 30 Apr 2007 19:57:19 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 122
Message-ID: <Pine.NEB.4.64.0704301955040.23396@panix3.panix.com>
References: <1177952390.073163.224680@y5g2000hsa.googlegroups.com>
 <Pine.NEB.4.64.0704301526040.14979@panix1.panix.com>
 <1177967634.548386.260420@q75g2000hsh.googlegroups.com>
NNTP-Posting-Host: panix3.panix.com

Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1177977440 2933 166.84.1.3 (30 Apr 2007 23:57:20 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 30 Apr 2007 23:57:20 +0000 (UTC)
In-Reply-To: <1177967634.548386.260420@q75g2000hsh.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:13144

On Mon, 30 Apr 2007, bigorangebus wrote:

> Excellent...!! Professional engineers also spend a lot of the time in
> the lab waving their arms in hopes that they can dissipate the smoke
> before someone runs in to see where the bang came from!
>
> I dont mean to be too highbrow...its just Ive spent so much of my
> working life ensuring that if you build something on a production line
> 100,000 times 5% failure is pretty bad. And people obviously build
> small transistor FM/AM/shortwave radios in china with the worst cheap
> components...and most of them seem to work of sorts. Though i have
> designed high end audio amplifiers and each time a new batch of
> capacitors came in there was lots of "listen tests" as amazingly you
> really could here 100nF placed on a supply line (dont ask me how...I
> still dont understand it).
>
> If the pro rf engineers do too much of the "try it and see" approach
> they deserve their sky high salaries for the loss of hair and frayed
> nerves waiting for the customer returns from their first 10,000 units!
>
> I did wonder whether selling the car and buying some impressive test
> equipment would make me feel better ;)

$200 at local hamfests and some cheap gear will get you most of what you
need. I bought a decent audio gen for $15, a decent RF gen for $3, and an
old tektronix scope for $45 (but it crapped out just recently [or, I
should say that it craps out after it warms up]). I do fine.

===== no change to below, included for reference and context =====

>
> On 30 Apr, 20:47, Straydog <a...@panix.com> wrote:
>> On Mon, 30 Apr 2007, bigorangebus wrote:
>>> I'm a professional electronics engineer (not rf enginneer though), and
>>> what I really find frustrating about radio projects is the
>>> uncertainty!
>>
>> I am a real _amateur_ ham operator. I _love_ to make homebrew stuff but
>> with tubes (not solid state), and will offer MY version of your story.
>>
>>> I spend hours designing and analysing filters. Designing oscillators
>>> and minimising harmonics, noise etc. Then I cheerfully commit it to a

>>> PCB (I tightly laid out surface mount PCB to minimise layout
>>> inductances etc).
>>
>> I do tinkering (not _engineering_), and do pretty sloppy, ugly, breadboard
>> construction of:
>>
>> 1. the real thing
>> 2. only a small part of the whole project at a time
>> 3. turn on "the juice" for the smoke test: results: 1-smoke and no
>> action (then scratch head), 2-no smoke but action (cigars for all), or
>> 3-no smoke & no action (also scratch head). There are variations on
>> this. Beyond the scope of this post.
>>
>>> Nothing ever works as simulated. Transistors never have the rf gain
>>> as SPICE seems to suggest.
>>
>> Decades ago I built, in a physics research lab on a university campus,
>> several dual-delay line pulse amplifiers (5-6 tubes, fancy delay lines).
>> All identical parts, identical schematic, identical tubes. One of these
>> amplifiers put out a trailing spike that was not supposed to be there. I
>> tried everything to figure out where it came from. I spent weeks on this.
>> Finally, I put in a bypass cap that was not supposed to be there and that
>> fixed it. Told the boss about all this. He shrugged his shoulders.
>>
>>> And local oscillators...well carefully chosen components just get
>>> thrown out the window to be replaced by more and more random changes
>>> in component values.
>>
>> I have found commercially made components that were crap. eg. Precision
>> resistors 20% off value. Parts dead out of the box.
>>
>>> If it does finally work, I'm left feeling nothing like an exacting
>>> engineer, and more like an artist that has piles on layers and layers
>>> of oil paint till the right effect was achieved.
>>
>> The object of the game is to get stuff that works and forget the castles
>> in the sky. Oh, yes, I worked at a place where another guy--making very
>> very very fancy-schmantzy stuff--built a circuit according to "plan" and
>> it didn't work either. Much cussing, grunting, cussing,
>> yelling-and-shouting-and-huffing-and-puffing and in the end, I recall that
>> they pulled a kludge fix, too.
>>
>>> I now find any mention of the 612 mixer and its (non)osclillator gives
>>> me panic attacks. (well i'm currently trying to get it to work at
>>> 130Mhz with voltage tuning).
>>
>>> So I wonder, what would be your top tips for someone moving into the
>>> radio design arena? Are there hidden secrets that nobody tells and
>>> the books omit? I'm not thinking about PCB layout here, more things
>>> like, are simulation programs of any use (if so which ones) and what
>>> kind of design procedures can result in predicatable results?
>>
>> I don't know about _you_, but for me, I do better when I build small parts

```
>> of the whole thing, then test them individually, and I have minimum test
>> equipment (oscilloscope, meters, signal generators) and you can put
>> inputs, measure outputs, measure voltage & currents, and tinker and adjust
>> as you go.
>>
>> You sometime have to test the part separately from the circuit to actually
>> prove to yourself that it really does work. Its a big pain, but it makes
>> you check everything.
>>
>> You might ask yourself if you are assembling things with good techniques
>> (yes--I kid you not--I have actually run into people who did not know
>> that you had to strip the insulation, whether enamel or plastic, off of
>> wires before putting them into sockets or clips) including soldering
>> technique.
>>
>> Oh, yes, since I work with tubes that run hundreds of volts on the
>> plates-screens, yes, I've gotten a few electrical shocks (they hurt, and
>> at higher current, burn flesh) but also be careful about not having a
>> finger from each hand in contact with "hot" metal conductors. High power
>> RF also burns flesh and feels like heat rather than pain and you might
>> smell burnt flesh (its terrible) before you feel anything.
>
>
>


From -3413740030961761459
X-Google-Thread: fc2a5,f139f458c4db22c2,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!c35g2000hsg.googlegroups.com!not-for-
mail
From: RDWeaver <weaver5511@mypacks.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: IIR or FIR or IF DSP project?
Date: 30 Apr 2007 17:47:02 -0700
Organization: http://groups.google.com
Lines: 13
Message-ID: <1177980422.226673.3190@c35g2000hsg.googlegroups.com>
NNTP-Posting-Host: 207.69.137.34
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1177980422 21536 127.0.0.1 (1 May 2007 00:47:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 1 May 2007 00:47:02 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: c35g2000hsg.googlegroups.com; posting-host=207.69.137.34;
   posting-account=DZ6dMQ0AAACohzEnFrqeGzNBFcePnfaT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13145
```

I have a couple of ADSP-2181's burning a hole in my junque box. Yes, I know they're a little slow and 'dated', but they were free and I thought they'd make a nice platform for a learning project, perhaps an IIR or FIR SSB filtering scheme.

Any of you done any designs with this, or have any non-proprietary app notes for this device?

TIA & 73, RDW

From 7406275969279960341
X-Google-Thread: fc2a5,37190e82bed2a18a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!tiscali!
newsfeed1.ip.tiscali.net!news.tele.dk!news.tele.dk!small.news.tele.dk!
newsfeed1.swip.net!swipnet!newsfeed1.funet.fi!newsfeeds.funet.fi!
feeder1.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Computer Grade
Message-ID: <n3id3319e1sikctg0qk7pnd9bosmjjlcsg@4ax.com>
References: <133bo782iag5q70@corp.supernews.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 25
Date: Tue, 01 May 2007 09:39:47 +0300
NNTP-Posting-Host: 195.197.6.92
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1178001512 195.197.6.92 (Tue, 01 May 2007 09:38:32 EEST)
NNTP-Posting-Date: Tue, 01 May 2007 09:38:32 EEST
Organization: Saunalahti Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:13146

On Mon, 30 Apr 2007 06:28:17 -0600, Jack Schmidling <arf@mc.net> wrote:

>I keep seeing caps described as "computer grade" but a search for a
>definition comes up with zilch.

In the 1960/70's computers were the only application requiring very low voltage stabilised DC power supplies, +5 V for TTL, +6 V for DTL and -5.2 V for ECL. Other high power DC applications in those days, such as industrial automation, used 24 V, but relays weren't sensitive to ripple or voltage variations.

When a typical computer consumed several kW at 5/6 V, quite huge DC currents were required and thus the power supply capacitance in linear power supplies had to be huge.

I have seen this "computer grade" term used in the 1970's when some surplus companies tried to sell some huge size capacitors, when physically smaller capacitors became available with the same capacitance, in order to justify the size of the surplus units.

But after the 1970's I have never seen the term "computer grade" used.

Paul OH3LWR

```
From -8605446078031599234
X-Google-Thread: fc2a5,8d3823efde0ae903
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e65g2000hsc.googlegroups.com!not-for-
mail
From: bigorangebus <bigorangebus@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Advice on the art of radio design, local oscillators and filters etc
Date: 1 May 2007 07:39:50 -0700
Organization: http://groups.google.com
Lines: 33
Message-ID: <1178030390.416909.254700@e65g2000hsc.googlegroups.com>
References: <1177952390.073163.224680@y5g2000hsa.googlegroups.com>
   <Pine.NEB.4.64.0704301526040.14979@panix1.panix.com>
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   <Pine.NEB.4.64.0704301955040.23396@panix3.panix.com>
NNTP-Posting-Host: 88.110.130.249
Mime-Version: 1.0
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X-Trace: posting.google.com 1178030390 24507 127.0.0.1 (1 May 2007 14:39:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 1 May 2007 14:39:50 +0000 (UTC)
In-Reply-To: <Pine.NEB.4.64.0704301955040.23396@panix3.panix.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.8.0.11)
Gecko/20070312 Firefox/1.5.0.11,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e65g2000hsc.googlegroups.com; posting-host=88.110.130.249;
   posting-account=GgpxRw0AAAAn_Rwf5JEWRtzcrHns9Fjj
Xref: g2news1.google.com rec.radio.amateur.homebrew:13147
```

We dont seem to have places where you can get cheap stuff in Britain. I tried to buy a spectrum analyser from ebay last week, good job I didnt pay it was a con artist. Problem is with kit like spectrum analysers is that you need something capable like an HP, otherwise its can be next to useless. And everyone seems to know the value of an HP856xrange unit, being $4000+!

I did once go to a ham radio show just outside of london, nothing cheap there though. Though I will remember two enthusiastic bearded men who were each looking through boxes of junk at opposite ends of a stand, they had their head in their boxes and were talking to each other on radios..saying "bill theres some good stuff in this box, over", "george..yes Ive found some great stuff in here, over"!

Meanwhile...I have a 612 based colpitts oscillator which on test works at 110Mhz with 10pf base/emmiter and 22pF to ground on the emmiter. But curiously jumps up to 210Mhz when I double the 22pF cap to 44pF. Ive got a frequency counter via a FET buffer showing those frequencies, and (with the counter turned off) I can verify the frequency with my portable scanner set close by. So increasing the capacitance doubles the freq of operation!? I do wonder whether the spectrum has just spread into harmonics...but i cant find them on my scanner...and wheres that HP spectrum analyzer..hmm

If anyone out there knows why increasing the emitter ground capacitor in a colpitts will increase the frequency I would be very happy to be educated! Given that the freq should be the emitter ground cap in series with the emmiter base, in parallel with the inductance. Which is 100nH, with a 1/2PI ROOTLC tuned circuit relationship.

Happy happy happy...

From 3996231577958951428
X-Google-Thread: fc2a5,91d42caf92dcf74f,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o5g2000hsb.googlegroups.com!not-for-mail
From: sig-programmer@hotmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: help with multiplexers
Date: 1 May 2007 09:06:00 -0700
Organization: http://groups.google.com
Lines: 32
Message-ID: <1178035560.142774.173500@o5g2000hsb.googlegroups.com>
NNTP-Posting-Host: 213.42.2.24
Mime-Version: 1.0
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 1 May 2007 16:06:01 +0000 (UTC)
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1),gzip(gfe),gzip(gfe)

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   posting-account=hHy8wg0AAAAU54Oxsdw2Xa5QufCxKxhA
Xref: g2news1.google.com rec.radio.amateur.homebrew:13148

Hi,

Re: array processing / analog to digital cards

I would like to process signal from an antenna array with 8 elements. Initially I was thinking of using an A/D card to digitize, with 8 input ports for 8 antenna array. Each antenna would have its cable coming into each port (assuming no RF analog) on to the card

But recently a friend told me that a "multiplexer" can be used to multiplex the 8 antenna signals into one and piped to a single port of A/D card. That way a single port (cheaper) card could be used and less hassle with cabling.

Assuming the bandwidth to be received/processed is 30 Mhz and the A/D is 70Mhz, can someone pls guide me:

1. Can such processing be done using multiplexers?
What are the drawbacks in terms of losing signal info, etc.

2. What are the important specs/considerations when dealing with multiplexers in such a setup?

3. Can you recommend a brand?

4. If multiplexers are not useable, can you suggest a cheaper alternative to buying a 8 port A/D card with 8 a/d chips, etc.

Thanks

Russ

From 7730661125706034685
X-Google-Thread: fc2a5,91d42caf92dcf74f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Tue, 01 May 2007 12:31:16 -0500
Date: Tue, 01 May 2007 10:34:20 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: help with multiplexers

References: <1178035560.142774.173500@o5g2000hsb.googlegroups.com>
In-Reply-To: <1178035560.142774.173500@o5g2000hsb.googlegroups.com>
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QsddF32RTn31rbYsPHZ2nP9QgdwdOo0/265mnnu!34/zZzTCpdbpfg81
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13149

sig-programmer@hotmail.com wrote:

> Hi,
>
> Re: array processing / analog to digital cards
>
> I would like to process signal from an antenna array with 8 elements.
> Initially I was thinking of using an A/D card to digitize, with 8
> input ports for 8 antenna array. Each antenna would have its cable
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>
> But recently a friend told me that a "multiplexer" can be used to
> multiplex the 8 antenna signals into one and piped to a single port of
> A/D card. That way a single port (cheaper) card could be used and less
> hassle with cabling.
>
> Assuming the bandwidth to be received/processed is 30 Mhz and the A/D
> is 70Mhz, can someone pls guide me:
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> 1. Can such processing be done using multiplexers?
> What are the drawbacks in terms of losing signal info, etc.
>
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> multiplexers in such a setup?
>
> 3. Can you recommend a brand?
>
> 4. If multiplexers are not useable, can you suggest a cheaper
> alternative to buying a 8 port A/D card with 8 a/d chips, etc.
>
> Thanks
>
> Russ
>

The multiplexer works like a switch: it connects channel 1 to the ADC, then channel 2, then channel 3, etc. Because you have eight antennas to sample, it reduces the ADCs effective sampling rate by a factor of eight.

The multiplexer itself won't have perfect isolation from one channel to the next, and the ADC (and the multiplexer's back end) won't settle infinitely fast, so if you're switching things quickly you will see some settling-time induced cross-talk between antennas. These two effects may be severe unless you spend as much on your multiplexer as you would on seven ADC channels.

Electronic analog switches like the ones used in multiplexers will attenuate your signal. A discrete multiplexer using PIN diodes will minimize this (and be expensive), a multiplexer using monolithic silicon switches will be worse.

Other than that, and all the stuff I haven't thought of yet, you should be A-OK.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From 4527483720299000192
X-Google-Thread: fc2a5,8d3823efde0ae903
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y80g2000hsf.googlegroups.com!not-for-mail
From: Tim Shoppa <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Advice on the art of radio design, local oscillators and filters etc
Date: 1 May 2007 11:04:42 -0700
Organization: http://groups.google.com
Lines: 49
Message-ID: <1178042681.954327.174400@y80g2000hsf.googlegroups.com>
References: <1177952390.073163.224680@y5g2000hsa.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 1 May 2007 18:04:42 +0000 (UTC)
In-Reply-To: <1177952390.073163.224680@y5g2000hsa.googlegroups.com>
User-Agent: G2/1.0
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1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y80g2000hsf.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com rec.radio.amateur.homebrew:13150

On Apr 30, 12:59 pm, bigorangebus <bigorange...@yahoo.com> wrote:

> I'm a professional electronics engineer (not rf enginneer though), and what I really find frustrating about radio projects is the uncertainty!
>
> I spend hours designing and analysing filters. Designing oscillators and minimising harmonics, noise etc. Then I cheerfully commit it to a PCB (I tightly laid out surface mount PCB to minimise layout inductances etc).
>
> Nothing ever works as simulated. Transistors never have the rf gain as SPICE seems to suggest.
>
> And local oscillators...well carefully chosen components just get thrown out the window to be replaced by more and more random changes in component values.

Oscillators are very tricky to design using tools like SPICE. Most simple oscillators by definition build up in amplitude until the device goes nonlinear and loop gain becomes one. SPICE models outside the linear range are often very poor.

And a very important factor for oscillators, is that we often require that the oscillator start reliably at all corners of the gain/temperature space, but SPICE models usually sit squarely in the center of gain/temperature space. SPICE models for crystal parameters are largely nonexistent or very proprietary and again don't cover all corners of gain/temperature space.

> So I wonder, what would be your top tips for someone moving into the radio design arena? Are there hidden secrets that nobody tells and the books omit? I'm not thinking about PCB layout here, more things like, are simulation programs of any use (if so which ones) and what kind of design procedures can result in predicatable results?

Canned crystal oscillators are a good choice if they really, really have to start reliably. Many handbook recipes for oscillators are not necessarily reliable starters.

Simulation for oscillator design was a laughable concept when I first learned SPICE in the 80's. Today we have more CPU power, but the models are the weakness.

If you are working in the VHF/UHF range, amplifier design usually starts with a transistor model for the frequency range. It's rare to have to get into SPICE.

Tim.

From 5869545103100228823
X-Google-Thread: fc2a5,91d42caf92dcf74f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!proxad.net!news.clara.net!wagner.news.clara.net!nntp-peering.plus.net!ptn-nntp-feeder01.plus.net!ptn-nntp-spool02.plus.net!ptn-nntp-reader02.plus.net!not-for-mail
Reply-To: "John A" <e455gkf@yahoo.co.uk>
From: "John A" <e455gkf@yahoo.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <1178035560.142774.173500@o5g2000hsb.googlegroups.com>
Subject: Re: help with multiplexers
Date: Tue, 1 May 2007 20:43:14 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Lines: 50
Message-ID: <463798bf$0$8757$ed2619ec@ptn-nntp-reader02.plus.net>
Organization: Customer of PlusNet plc (http://www.plus.net)
NNTP-Posting-Host: 39fd3070.ptn-nntp-reader02.plus.net
X-Trace: DXC=AI621K3O^Pdd]hE\?]fFbnigd3Y`7Rb;n37XnI;[OUCdG`jPeGcW;ik>>FK2h]oMVh4Tm7de1j46hbBX5k:IXRce
X-Complaints-To: abuse@plus.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13151

<sig-programmer@hotmail.com> wrote in message news:1178035560.142774.173500@o5g2000hsb.googlegroups.com...
> Hi,
>
> Re: array processing / analog to digital cards
>
> I would like to process signal from an antenna array with 8 elements.
> Initially I was thinking of using an A/D card to digitize, with 8
> input ports for 8 antenna array. Each antenna would have its cable
> coming into each port (assuming no RF analog) on to the card
>
> But recently a friend told me that a "multiplexer" can be used to
> multiplex the 8 antenna signals into one and piped to a single port of
> A/D card. That way a single port (cheaper) card could be used and less
> hassle with cabling.
>
> Assuming the bandwidth to be received/processed is 30 Mhz and the A/D
> is 70Mhz, can someone pls guide me:
>
> 1. Can such processing be done using multiplexers?
> What are the drawbacks in terms of losing signal info, etc.
>

> 2. What are the important specs/considerations when dealing with
> multiplexers in such a setup?
>
> 3. Can you recommend a brand?
>
> 4. If multiplexers are not useable, can you suggest a cheaper
> alternative to buying a 8 port A/D card with 8 a/d chips, etc.
>
> Thanks
>
> Russ
>

You seem to think that the multiplexer approach will give you something for nothing - it won't. If you replace eight 70MHz A/Ds with one A/D and an 8-input multiplexer you'll have to sample eight times faster - i.e. at a rate of at least 480MHz. What is more, you will need a multiplexer that can switch at 480MHz - i.e. spend only 2ns on each channel. In that time all switching transients - and the signal itself - must settle and THEN, the A/D perform the conversion.

Not mission impossible, but if you need to ask these questions, you might find this project quite difficult.

John A

From -8107723275372630490
X-Google-Thread: fc2a5,4e117a4d99290610,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-05!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Grundig YB 400 component locations
Date: Tue, 01 May 2007 15:22:17 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <133f8cke1ik5743@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 15
Xref: g2news1.google.com rec.radio.amateur.homebrew:13152

Greetings:

If anyone has access to the service manual for the Grundig YB 400,
I would very much appreciate a look to see if it has pictorial
component call-outs before I start a tedious visual tracing
effort. (I am in the midst of a controller redesign for this
radio). The bulk of the discretes (mostly fine-pitch smt) are
on the solder side and I will need to identify the location of
Q's R's C's and D's.

Thanks for any help.

Regards and 73,

Michael

From 5580198381457327902
X-Google-Thread: fc2a5,24e6deef53c75fab
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <rTJPh.4424$u03.1827@newssvr21.news.prodigy.net>
<26QPh.3$nl2.18451@news.sisna.com>
Subject: Re: Question about Switch
Date: Tue, 1 May 2007 16:55:36 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Lines: 28
Message-ID: <4637a930$0$4646$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13153

"RST Engineering" <jim@rstengineering.com> wrote in message
news:26QPh.3$nl2.18451@news.sisna.com...
> Almost any kind of switch you want, including the miniatures, providing
> that you don't do the toggling during the transmit mode.
>
> Jim
>
>
>
> "Beech Creek" <silverado@post.com> wrote in message
> news:rTJPh.4424$u03.1827@newssvr21.news.prodigy.net...
>>I have an old Murch Ultimate Transmatch that I would like to put a switch
>>in so that I can switch the transmatch in or out of the circuit. What

>>kind of switch should I use that will handle the 2KW power rating of the
>>transmatch?
>>
>> Thanks in advance for any advice.
>>
>> Cal Barton
>> WB5CYS
>>
>
>
Yes, take a look at most amps including the one you are using the antenna
realy is probably nothing special, just a heavy duty DPDT relay.

```
From 6899035684410327997
X-Google-Thread: fc2a5,8d3823efde0ae903
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: "john jardine" <john@jjdesigns.fsnet.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <1177952390.073163.224680@y5g2000hsa.googlegroups.com>
<Pine.NEB.4.64.0704301526040.14979@panix1.panix.com>
<1177967634.548386.260420@q75g2000hsh.googlegroups.com>
<Pine.NEB.4.64.0704301955040.23396@panix3.panix.com>
<1178030390.416909.254700@e65g2000hsc.googlegroups.com>
Subject: Re: Advice on the art of radio design, local oscillators and filters etc
Date: Tue, 1 May 2007 22:09:06 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Lines: 58
Message-ID: <4637a012$0$16402$88260bb3@free.teranews.com>
NNTP-Posting-Date: 01 May 2007 20:16:18 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13154
```

"bigorangebus" <bigorangebus@yahoo.com> wrote in message
news:1178030390.416909.254700@e65g2000hsc.googlegroups.com...
> We dont seem to have places where you can get cheap stuff in Britain.
> I tried to buy a spectrum analyser from ebay last week, good job I
> didnt pay it was a con artist. Problem is with kit like spectrum
> analysers is that you need something capable like an HP, otherwise its
> can be next to useless. And everyone seems to know the value of an
> HP856xrange unit, being $4000+!
>
> I did once go to a ham radio show just outside of london, nothing
> cheap there though. Though I will remember two enthusiastic bearded

> men who were each looking through boxes of junk at opposite ends of a
> stand, they had their head in their boxes and were talking to each
> other on radios..saying "bill theres some good stuff in this box,
> over", "george..yes Ive found some great stuff in here, over"!
>
> Meanwhile...I have a 612 based colpitts oscillator which on test works
> at 110Mhz with 10pf base/emmiter and 22pF to ground on the emmiter.
> But curiously jumps up to 210Mhz when I double the 22pF cap to 44pF.
> Ive got a frequency counter via a FET buffer showing those
> frequencies, and (with the counter turned off) I can verify the
> frequency with my portable scanner set close by. So increasing the
> capacitance doubles the freq of operation!? I do wonder whether the
> spectrum has just spread into harmonics...but i cant find them on my
> scanner...and wheres that HP spectrum analyzer..hmm
>
> If anyone out there knows why increasing the emitter ground capacitor
> in a colpitts will increase the frequency I would be very happy to be
> educated! Given that the freq should be the emitter ground cap in
> series with the emmiter base, in parallel with the inductance. Which
> is 100nH, with a 1/2PI ROOTLC tuned circuit relationship.
>
> Happy happy happy...
>
>

10p-22p-100nH should run 200MHz!. The 44pF cap sounds a bit dodgy for HF osc operation.
Oscillator caps I use for the (later version) SA602 mixer are usually 5pF-5pF.
A 110MHz-210Mhz design earlier this year used 5pF-5pF-100nH and 2 back to back SMV1259 varicaps.
And yes, above about 30MHz concrete account has to be taken of the layout wiring and parasitics. Modelling will get you maybe 70% of the way there, invisible factors the other 30% :).
Most important of all is minimising or allowing for the effect of test gear and it's connections. From bitter experience I realise it's a skilled artform that can only be acquired through doing.
And yes, the more test gear the better. Come what may, buy that speccy analyser!.
If you ever come across designs where the author indicates possession of only basic test gear then be wary. Very wary!.

--
Posted via a free Usenet account from http://www.teranews.com

From 8399687697033271904

```
X-Google-Thread: fc2a5,8d3823efde0ae903
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n76g2000hsh.googlegroups.com!not-for-
mail
From: bigorangebus <bigorangebus@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Advice on the art of radio design, local oscillators and filters etc
Date: 1 May 2007 14:36:46 -0700
Organization: http://groups.google.com
Lines: 21
Message-ID: <1178055406.027983.133080@n76g2000hsh.googlegroups.com>
References: <1177952390.073163.224680@y5g2000hsa.googlegroups.com>
   <Pine.NEB.4.64.0704301526040.14979@panix1.panix.com>
   <1177967634.548386.260420@q75g2000hsh.googlegroups.com>
   <Pine.NEB.4.64.0704301955040.23396@panix3.panix.com>
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   <4637a012$0$16402$88260bb3@free.teranews.com>
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X-Trace: posting.google.com 1178055406 25694 127.0.0.1 (1 May 2007 21:36:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 1 May 2007 21:36:46 +0000 (UTC)
In-Reply-To: <4637a012$0$16402$88260bb3@free.teranews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.8.0.11)
Gecko/20070312 Firefox/1.5.0.11,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n76g2000hsh.googlegroups.com; posting-host=88.110.194.169;
   posting-account=GgpxRw0AAAAn_Rwf5JEWRtzcrHns9Fjj
Xref: g2news1.google.com rec.radio.amateur.homebrew:13155
```

This is really useful. I'd neglected to mention the other 22pF cap in parallel with the inductor(in the test circuit, to be replaced by a varicap with 1nF DC block in actual design), and with circuit parasitics it runs at about 110Mhz. I actually doubled the 22pF cap in the emitter/ground (two 22pF caps in parallel). So one 22pF was 110Mhz, and two in parallel was over 200Mhz! So theres the quandry.

My main circuit uses one varicap diode, can't use back to back as I need the whole cap range. Ive realised that just connecting a 10k pot (in my test circuit) to a 47 series resistor onto the diode (as seen on several circuits on the web) is a bit dodgy as the effect is not linear (presumably because the ends of the 10k pot create a lower rf impedance).

I was also wondering whether my surface mount 100nH inductor has too low a Q to be stable (49). Might be causing some of my more random affects.

From -5740351129916106087
X-Google-Thread: fc2a5,24e6deef53c75fab
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n76g2000hsh.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Question about Switch
Date: 1 May 2007 16:35:46 -0700
Organization: http://groups.google.com
Lines: 29
Message-ID: <1178062546.897541.46580@n76g2000hsh.googlegroups.com>
References: <rTJPh.4424$u03.1827@newssvr21.news.prodigy.net>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1178062547 12735 127.0.0.1 (1 May 2007 23:35:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 1 May 2007 23:35:47 +0000 (UTC)
In-Reply-To: <rTJPh.4424$u03.1827@newssvr21.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.11) Gecko/20070312 Firefox/1.5.0.11,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n76g2000hsh.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news1.google.com rec.radio.amateur.homebrew:13156

On Apr 1, 1:16 am, "Beech Creek" <silver...@post.com> wrote:
> I have an old Murch Ultimate Transmatch that I would like to put a switch in
> so that I can switch the transmatch in or out of the circuit. What kind of
> switch should I use that will handle the 2KW power rating of the transmatch?
>
> Thanks in advance for any advice.
>
> Cal Barton
> WB5CYS

The switch has to handle not only the 50 ohm input, but the output, whatever that may be. Note that 2kW at 10 ohms is 14 amps RMS, and at RF where the current flows on the surface of the conductors and resistance is quite a bit greater than at DC, you can get a lot of heating with 14 amps. And note that 2kW at, say, 600 ohms is over 1000 volts RMS. At that sort of power level, where you don't really know what impedance you're driving, I'd suggest you should be using a pretty heavy-duty ceramic switch, heavy contacts and wide spacing. I wouldn't even think of using a "miniature" switch in an application like that.

If things stayed at 50 ohms, you'd only need to handle a relatively
puny 6.3A and 316V RMS, but if things stayed at 50 ohms, you wouldn't
need an antenna tuner, would you?

Cheers,
Tom

From -5202297584763492865
X-Google-Thread: fc2a5,8d3823efde0ae903
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!
newscon02.news.prodigy.net!prodigy.net!nx02.iad01.newshosting.com!newshosting.com!
nntpserver.com!zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: "john jardine" <john@jjdesigns.fsnet.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <1177952390.073163.224680@y5g2000hsa.googlegroups.com>
<Pine.NEB.4.64.0704301526040.14979@panix1.panix.com>
<1177967634.548386.260420@q75g2000hsh.googlegroups.com>
<Pine.NEB.4.64.0704301955040.23396@panix3.panix.com>
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<4637a012$0$16402$88260bb3@free.teranews.com>
<1178055406.027983.133080@n76g2000hsh.googlegroups.com>
Subject: Re: Advice on the art of radio design, local oscillators and filters etc
Date: Wed, 2 May 2007 02:27:09 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Lines: 41
Message-ID: <4637dc8c$0$1468$88260bb3@free.teranews.com>
NNTP-Posting-Date: 02 May 2007 00:34:20 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13157

"bigorangebus" <bigorangebus@yahoo.com> wrote in message
news:1178055406.027983.133080@n76g2000hsh.googlegroups.com...
> This is really useful. I'd neglected to mention the other 22pF cap in
> parallel with the inductor(in the test circuit, to be replaced by a
> varicap with 1nF DC block in actual design), and with circuit
> parasitics it runs at about 110Mhz. I actually doubled the 22pF cap
> in the emitter/ground (two 22pF caps in parallel). So one 22pF was
> 110Mhz, and two in parallel was over 200Mhz! So theres the quandry.
>
> My main circuit uses one varicap diode, can't use back to back as I
> need the whole cap range. Ive realised that just connecting a 10k pot
> (in my test circuit) to a 47 series resistor onto the diode (as seen
> on several circuits on the web) is a bit dodgy as the effect is not
> linear (presumably because the ends of the 10k pot create a lower rf

> impedance).
>
> I was also wondering whether my surface mount 100nH inductor has too
> low a Q to be stable (49). Might be causing some of my more random
> affects.
>

At 44pF the emitter feedback factor is only about 0.2 and moving into an area where a Colpitt may fail to oscillate and all bets are off.
Could be the osc' is running into a on/off squegging mode and the counter is picking up the 2nd harmonic of a grossly distorted waveform. (a speccy would show this instantly).
The 47k series R is fine. The diode can see as loading a min of 42k and a max of 52k, which essentially is a zero load on the dynamic resistance of the tuned circuit, which may only be a few kohm at best. (a variable R loading of this nature has only trivial effect on an oscillator)
A Q of 49 is perfectly OK to run the Colpitt. In practice, higher Q's will offer maybe a 10%-20% increase in maximum attainable oscillation frequency.
The 100nH coil I prototyped was 5 turns of thin tinned wire wound round a pencil. Doesn't sound much but cost nothing and gave a Q of 180!.

(as an isolated side note, the same coil using Gold plated wire gave Q =180 and the same with Silver plated wire Q=200)

--
Posted via a free Usenet account from http://www.teranews.com

```
From 9165173908937394740
X-Google-Thread: fc2a5,37190e82bed2a18a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04a.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc03.POSTED!2dc089b5!
not-for-mail
From: "John - KD5YI" <groups5not@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <133bo782iag5q70@corp.supernews.com>
<n3id3319e1sikctg0qk7pnd9bosmjjlcsg@4ax.com>
Subject: Re: Computer Grade
Lines: 43
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 000737-2, 04/30/2007), Outbound message
X-Antivirus-Status: Clean
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Message-ID: <BCTZh.3204$zE.508@trnddc03>
Date: Wed, 02 May 2007 03:31:45 GMT
NNTP-Posting-Host: 71.96.141.161
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc03 1178076705 71.96.141.161 (Tue, 01 May 2007 23:31:45 EDT)
NNTP-Posting-Date: Tue, 01 May 2007 23:31:45 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13158

"Paul Keinanen" <keinanen@sci.fi> wrote in message
news:n3id3319e1sikctg0qk7pnd9bosmjjlcsg@4ax.com...
> On Mon, 30 Apr 2007 06:28:17 -0600, Jack Schmidling <arf@mc.net>
> wrote:
>
>>I keep seeing caps described as "computer grade" but a search for a
>>definition comes up with zilch.
>
> In the 1960/70's computers were the only application requiring very
> low voltage stabilised DC power supplies, +5 V for TTL, +6 V for DTL
> and -5.2 V for ECL. Other high power DC applications in those days,
> such as industrial automation, used 24 V, but relays weren't sensitive
> to ripple or voltage variations.
>
> When a typical computer consumed several kW at 5/6 V, quite huge DC
> currents were required and thus the power supply capacitance in linear
> power supplies had to be huge.
>
> I have seen this "computer grade" term used in the 1970's when some
> surplus companies tried to sell some huge size capacitors, when
> physically smaller capacitors became available with the same
> capacitance, in order to justify the size of the surplus units.
>
> But after the 1970's I have never seen the term "computer grade" used.
>
> Paul OH3LWR

The term "computer grade" is in use today. See
http://www.mouser.com/catalog/629/576.pdf
and
http://www.mouser.com/catalog/629/574.pdf
for examples of those currently manufactured by Vishay/Sprague and
Mallory/CDE.

I suspect that the term "computer grade" signifies capacitors with screw
terminals. However, I can't prove it.

Cheers,
John

From 7337919783586862772
X-Google-Thread: fc2a5,7f6bb48ae151e713,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 6m amp
Date: Wed, 2 May 2007 05:26:07 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Lines: 8
Message-ID: <46385917$0$9905$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13159

a guy has a 6m amp for sale that uses an 811a. in GG configuration. Is this possible with reasonable gain? The amp appears to be built well and I will probably buy it just for the parts before the week is out but should I expect this thing to really work on 6M.

Jimmie

From -4465965634129045100
X-Google-Thread: fc2a5,24e6deef53c75fab
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <rTJPh.4424$u03.1827@newssvr21.news.prodigy.net> <1178062546.897541.46580@n76g2000hsh.googlegroups.com>
Subject: Re: Question about Switch
Date: Wed, 2 May 2007 10:04:43 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Lines: 43
Message-ID: <46389a62$0$9887$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com

```
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13160


"K7ITM" <k7itm@msn.com> wrote in message
news:1178062546.897541.46580@n76g2000hsh.googlegroups.com...
> On Apr 1, 1:16 am, "Beech Creek" <silver...@post.com> wrote:
>> I have an old Murch Ultimate Transmatch that I would like to put a switch
>> in
>> so that I can switch the transmatch in or out of the circuit.  What kind
>> of
>> switch should I use that will handle the 2KW power rating of the
>> transmatch?
>>
>> Thanks in advance for any advice.
>>
>> Cal Barton
>> WB5CYS
>
>
> The switch has to handle not only the 50 ohm input, but the output,
> whatever that may be.  Note that 2kW at 10 ohms is 14 amps RMS, and at
> RF where the current flows on the surface of the conductors and
> resistance is quite a bit greater than at DC, you can get a lot of
> heating with 14 amps.  And note that 2kW at, say, 600 ohms is over
> 1000 volts RMS.  At that sort of power level, where you don't really
> know what impedance you're driving, I'd suggest you should be using a
> pretty heavy-duty ceramic switch, heavy contacts and wide spacing.  I
> wouldn't even think of using a "miniature" switch in an application
> like that.
>
> If things stayed at 50 ohms, you'd only need to handle a relatively
> puny 6.3A and 316V RMS, but if things stayed at 50 ohms, you wouldn't
> need an antenna tuner, would you?
>
> Cheers,
> Tom
>

Of course one would assume the only time he would use the switch is when
working into 50 ohms, either the input to the tuner or the input of a 50 ohm
more or less antenna.

Jimmie





From 6087786078136243339
X-Google-Thread: fc2a5,37190e82bed2a18a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
```

nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-out.newsfeeds.com!local!news.eskimo.com!eskimo.com!mzenier
From: mzenier@eskimo.com (Mark Zenier)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Computer Grade
Date: Tue, 1 May 2007 22:00:52 GMT
Organization: Eskimo North www.eskimo.com (800) 246-6874
Lines: 20
Message-ID: <f1abj9$l33$1@eskinews.eskimo.com>
References: <133bo782iag5q70@corp.supernews.com>
NNTP-Posting-Host: eskimo.com
X-Trace: eskinews.eskimo.com 1178120617 21603 204.122.16.13 (2 May 2007 15:43:37 GMT)
X-Complaints-To: abuse@eskimo.com
NNTP-Posting-Date: 2 May 2007 15:43:37 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13161

In article <133bo782iag5q70@corp.supernews.com>,
Jack Schmidling <arf@mc.net> wrote:
>I keep seeing caps described as "computer grade" but a search for a
>definition comes up with zilch.
>
>What does this mean? As the vast majority of computers are owned by the
>masses, one could assume it means sleazy consumer quality. Or it could
>mean the kind of computer that prevents ICBM's from being accidentally
>launched.
>
>Which is it?

Digging out the 1968 Newark catalog, on page 332 are the Mallory CG
series of big can capacitors in a section titled "Computer Grade
Electrolytic Capacitors". ie -10+75% tolerance, -40/+85 deg C temp.
$10 was a lot for a capacitor in 1968.

Mark Zenier mzenier@eskimo.com
Googleproofaddress(account:mzenier provider:eskimo domain:com)

From 1553366110417064316
X-Google-Thread: fc2a5,37190e82bed2a18a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-mail
From: "William E. Sabin" <w.sabin@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <133bo782iag5q70@corp.supernews.com>
<f1abj9$l33$1@eskinews.eskimo.com>
Subject: Re: Computer Grade
Lines: 30
X-Priority: 3

```
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <qB4_h.30513$n_.3743@attbi_s21>
NNTP-Posting-Host: 12.217.187.231
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1178129878 12.217.187.231 (Wed, 02 May 2007 18:17:58 GMT)
NNTP-Posting-Date: Wed, 02 May 2007 18:17:58 GMT
Organization: AT&T ASP.att.net
Date: Wed, 02 May 2007 18:17:58 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13162

"Computer Grade Capacitor" might possibly refer to the low value of internal
series resistance and inductance which are important parameters in switching
regulator power supplies.

Bill W0IYH

"Mark Zenier" <mzenier@eskimo.com> wrote in message
news:f1abj9$l33$1@eskinews.eskimo.com...
> In article <133bo782iag5q70@corp.supernews.com>,
> Jack Schmidling  <arf@mc.net> wrote:
>>I keep seeing caps described as "computer grade" but a search for a
>>definition comes up with zilch.
>>
>>What does this mean?  As the vast majority of computers are owned by the
>>masses, one could assume it means sleazy consumer quality.  Or it could
>>mean the kind of computer that prevents ICBM's from being accidentally
>>launched.
>>
>>Which is it?
>
> Digging out the 1968 Newark catalog, on page 332 are the Mallory CG
> series of big can capacitors in a section titled "Computer Grade
> Electrolytic Capacitors".  ie -10+75% tolerance, -40/+85 deg C temp.
> $10 was a lot for a capacitor in 1968.
>
> Mark Zenier  mzenier@eskimo.com
> Googleproofaddress(account:mzenier provider:eskimo domain:com)
>




From -1305406000537273433
X-Google-Thread: fc2a5,24e6deef53c75fab
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n76g2000hsh.googlegroups.com!not-for-
mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
```

```
Subject: Re: Question about Switch
Date: 2 May 2007 12:31:54 -0700
Organization: http://groups.google.com
Lines: 62
Message-ID: <1178134314.417885.154430@n76g2000hsh.googlegroups.com>
References: <rTJPh.4424$u03.1827@newssvr21.news.prodigy.net>
   <1178062546.897541.46580@n76g2000hsh.googlegroups.com>
   <46389a62$0$9887$4c368faf@roadrunner.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1178134314 14756 127.0.0.1 (2 May 2007 19:31:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 2 May 2007 19:31:54 +0000 (UTC)
In-Reply-To: <46389a62$0$9887$4c368faf@roadrunner.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.11)
Gecko/20070312 Firefox/1.5.0.11,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n76g2000hsh.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news1.google.com rec.radio.amateur.homebrew:13163

On May 2, 7:04 am, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
> "K7ITM" <k...@msn.com> wrote in message
>
> news:1178062546.897541.46580@n76g2000hsh.googlegroups.com...
>
>
>
> > On Apr 1, 1:16 am, "Beech Creek" <silver...@post.com> wrote:
> >> I have an old Murch Ultimate Transmatch that I would like to put a switch
> >> in
> >> so that I can switch the transmatch in or out of the circuit.  What kind
> >> of
> >> switch should I use that will handle the 2KW power rating of the
> >> transmatch?
>
> >> Thanks in advance for any advice.
>
> >> Cal Barton
> >> WB5CYS
>
> > The switch has to handle not only the 50 ohm input, but the output,
> > whatever that may be.  Note that 2kW at 10 ohms is 14 amps RMS, and at
> > RF where the current flows on the surface of the conductors and
> > resistance is quite a bit greater than at DC, you can get a lot of
> > heating with 14 amps.  And note that 2kW at, say, 600 ohms is over
> > 1000 volts RMS.  At that sort of power level, where you don't really
> > know what impedance you're driving, I'd suggest you should be using a
> > pretty heavy-duty ceramic switch, heavy contacts and wide spacing.  I
> > wouldn't even think of using a "miniature" switch in an application
> > like that.
```

>
> > If things stayed at 50 ohms, you'd only need to handle a relatively
> > puny 6.3A and 316V RMS, but if things stayed at 50 ohms, you wouldn't
> > need an antenna tuner, would you?
>
> > Cheers,
> > Tom
>
> Of course one would assume the only time he would use the switch is when
> working into 50 ohms, either the input to the tuner or the input of a 50 ohm
> more or less antenna.
>
> Jimmie

;-) Well, when I read "switch the transmatch in or out of the circuit," I envision switching both ends of it. If indeed it's a switch to select between antennas that don't need a tuner and one that does, where that antenna is always connected to the tuner output, then a more modest range of impedances could be assumed. I'd assume at least 2:1 SWR relative to 50 ohms, though; a typical 2kW amplifier would have a tuned output that likely could handle that range easily. So even then you're getting into possible currents and voltages I wouldn't trust to just any old switch I found kicking around. I do understand that a common ham design philosophy is, "build it with whatever's around and if it fails, rebuild it with something a bit beefier." I'd prefer to put a bit of thought into the anticipated worst-case stress levels before I build it, but that's just my personal feeling.

Cheers,
Tom

From 1199373415624111053
X-Google-Thread: fc2a5,7f6bb48ae151e713
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wn12feed!worldnet.att.net!bgtnsc05-
news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
Message-ID: <46392218.2060702@worldnet.att.net>
From: John Siegel <JohnASiegel@worldnet.att.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.0.2) Gecko/
20030208 Netscape/7.02
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 6m amp
References: <46385917$0$9905$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 17

Date: Wed, 02 May 2007 23:43:24 GMT
NNTP-Posting-Host: 12.76.4.238
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1178149404 12.76.4.238 (Wed, 02 May 2007 23:43:24 GMT)
NNTP-Posting-Date: Wed, 02 May 2007 23:43:24 GMT
Organization: AT&T Worldnet
Xref: g2news1.google.com rec.radio.amateur.homebrew:13164

Jimmie D wrote:
> a guy has a 6m amp for sale that uses an 811a. in GG configuration. Is this
> possible with reasonable gain? The amp appears to be built well and I will
> probably buy it just for the parts before the week is out but should I
> expect this thing to really work on 6M.
>
> Jimmie
>
>

I used an amp with 572Bs for many years. With an untuned input, output
ran up to 600W PEP for 100 in.
This suggests that the 811A would work but at some lower power. What
does the owner say about input and output power?
John

From 6748335840119085244
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Thread: fc8b1,288b3a2c51615653
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d57g2000hsg.googlegroups.com!not-for-mail
From: Jim <k0jkj@arrl.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Homebrew 11 tube CB receiver info wanted
Date: 20 Apr 2007 07:49:44 -0700
Organization: http://groups.google.com
Lines: 20
Message-ID: <1177080584.720520.166130@d57g2000hsg.googlegroups.com>
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
NNTP-Posting-Host: 66.37.132.58
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1177080585 26741 127.0.0.1 (20 Apr 2007 14:49:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 20 Apr 2007 14:49:45 +0000 (UTC)
In-Reply-To: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.8.0.10) Gecko/20070226 Fedora/1.5.0.10-1.fc6 Firefox/1.5.0.10 pango-text,gzip(gfe),gzip(gfe)

Complaints-To: groups-abuse@google.com
Injection-Info: d57g2000hsg.googlegroups.com; posting-host=66.37.132.58;
   posting-account=gJ7C6wwAAACrkOE8NW4oWqnm6pQe7_4_
Xref: g2news1.google.com rec.radio.amateur.homebrew:13062
rec.radio.amateur.boatanchors:11357

Thanks for all the replies.

The chassis is very professionally done. The wiring is not so well
done. The filter cap wiring on the transmitter socket divider is a
joke. Thus the idea of a kit seems reasonable. There is only one
crystal socket. So the Knight Kit seems to be out. Family issues are
keeping me from more work on the rig right now, So I'll have to just
wait see what else is posted here, for a while before trying to draw a
schematic

I really am impressed by those that want to help, plus I've learned
some things.

Thankjs again.

Jim

From -8280712620956783429
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Thread: fc8b1,288b3a2c51615653
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!b75g2000hsg.googlegroups.com!not-for-mail
From: wb5kcm <wb5kcm@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Homebrew 11 tube CB receiver info wanted
Date: 20 Apr 2007 07:58:41 -0700
Organization: http://groups.google.com
Lines: 34
Message-ID: <1177081121.905845.96190@b75g2000hsg.googlegroups.com>
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
   <fqWdnVF14K3aaLvbnZ2dnUVZ_qKqnZ2d@comcast.com>
   <f081rl$ndo$1@theodyn.ncf.ca>
   <1176998911.434688.154890@n59g2000hsh.googlegroups.com>
   <f087u9$4k0$1@panix2.panix.com>
   <2rqdnY-D0NtmA7XbnZ2dnUVZ8sjinZ2d@pipex.net>
   <132hf5kkepomec6@corp.supernews.com>
   <IP3Wh.7297$Pq5.609@bignews6.bellsouth.net>
NNTP-Posting-Host: 216.213.225.2
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"

X-Trace: posting.google.com 1177081122 25400 127.0.0.1 (20 Apr 2007 14:58:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 20 Apr 2007 14:58:42 +0000 (UTC)
In-Reply-To: <IP3Wh.7297$Pq5.609@bignews6.bellsouth.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b75g2000hsg.googlegroups.com; posting-host=216.213.225.2;
   posting-account=EdH9ww0AAAAFnEYpZGFT7-aH0D1ihcTY
Xref: g2news1.google.com rec.radio.amateur.homebrew:13063 rec.radio.amateur.boatanchors:11358

On Apr 20, 9:08 am, Randy or Sherry Guttery <comce...@bellsouth.net> wrote:

> msg wrote:
> > Surely there are those amongst us that built 27MHz walkie-talkie
> > kits from Allied (Knight) and others in the 1960's...
>
> Back in the '60's - I was building AM broadcast transmitters, not CBs -
> however - here in ought 7 - I have a 1962 Allied catalog in which the
> back section is a KnightKit catalog. On page 408 there is a C-11
> Citizens Band Transceiver Kit ($39.95). It transmits on any 1 of 22 CB
> channels depending on crystal installed, and it manually tunes all 22 CB
> channels. It does not list the tubes, but does note it's a superhet.
>
> On the next page is a model C-27 Deluxe Transceiver Kit - for reception
> it too manually tunes all 22 channels - plus has provisions for two
> crystal controlled channels. The same switch also selects one of two
> transmit frequencies. This is a dual conversion receiver, and while it
> again does not list the tube compliment - it does say "7 dual-purpose
> tubes, 2 single-purpose tubes, VR and rectifier". Since it mentions
> regulated supplies for the oscillators, pretty sure that's the "VR".
> $79.95 plus 2nd crystals - $1.95 each (transmit or receive, specify
> channel).
>
> best regards...
> --
> randy guttery
>
> A Tender Tale - a page dedicated to those Ships and Crews
> so vital to the United States Silent Service:http://tendertale.com

What about that old Hammerlund CB...was it called the HQ-105? or something like that. Possibly someone put on a different front panel and it now looks to be homebrew?? Just a thought.

From -6349888975475738423
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Thread: fc8b1,288b3a2c51615653
X-Google-Attributes: gidfc2a5,gidfc8b1,public

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews5.bellsouth.net.POSTED!cd3bd447!not-for-mail
From: Randy or Sherry Guttery <comcents@bellsouth.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Homebrew 11 tube CB receiver info wanted
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
<1177080584.720520.166130@d57g2000hsg.googlegroups.com>
In-Reply-To: <1177080584.720520.166130@d57g2000hsg.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 14
Message-ID: <FD4Wh.824$TD3.485@bignews5.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcbofgioeobkhknfpokdlhoeimfjglibpclehg
bagololonmafgibbcjaklopoflbnfcfeehjgilmlgfdoiifegifbplnlcmkpnhomlgcccebcdfdbbm
NNTP-Posting-Date: Fri, 20 Apr 2007 11:04:05 EDT
Organization: BellSouth Internet Group
Date: Fri, 20 Apr 2007 10:04:04 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:13064
rec.radio.amateur.boatanchors:11359

Jim wrote:

> There is only one
> crystal socket. So the Knight Kit seems to be out.

The CB-11 has only one crystal socket - for the transmitter.

best regards...
--
randy guttery

A Tender Tale - a page dedicated to those Ships and Crews
so vital to the United States Silent Service:
http://tendertale.com


From -2536522558914132695
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Spike <Aero.Spike@S&T.invalid>
```

```
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Fri, 20 Apr 2007 17:36:18 +0100
Lines: 20
Message-ID: <fuqh23pavmll4gjlsp5s4m9su36vqcsruq@4ax.com>
References: <f04fdb$h2n$1@aioe.org> <l8sVh.1937$Ca7.573@newsfe3-win.ntli.net>
<f05k07$ts3$1@aioe.org> <4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
<nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net> <f07a0m$eob$1@aioe.org>
<CjNVh.1648$mk4.948@newsfe4-win.ntli.net>
<4627b084$0$29219$dbd49001@news.wanadoo.nl>
<rjcf23liderou43uobothkatp1qruskqe1@4ax.com>
<4ZOdnWnsCZsEIrrbnZ2dnUVZ_iydnZ2d@comcast.com>
<evqg231dalnsv9r8mf48ovgkft53b8i2ak@4ax.com> <Z93Wh.7110$ya1.5443@news02.roc.ny>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: individual.net djOhpBYaPwc0FwvC92fX6wy1mInRiQbVH0JdhRXv1rSIz5tOCo
X-Newsreader: Forte Agent 1.93/32.576 English (American)
Xref: g2news1.google.com uk.radio.amateur:110134 rec.radio.amateur.homebrew:13066


gwatts wrote:

>Spike wrote:
>
>> NoMoreSpam wrote:
>>
>>>Watching these Brits make asses of themselves makes me proud to be an American!
>>
>> Remind me again how democracy is progressing in Iraq.
>
>Funny, coming from someone in a country that invaded Iraq in WW1, 1941
>and basically set up the whole region to become what it is today.
>
>Blame can be cast everywhere, how about casting some solutions for a change?

How about "Yanks Go Home"?
--
from
Aero Spike



From -4456198111626976234
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news01.roc.ny.POSTED!fd24bd7a!
not-for-mail
From: gwatts <gwatts@frontiernet.net>
User-Agent: Mozilla Thunderbird 1.0.6 (Windows/20050716)
```

```
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
References: <f04fdb$h2n$1@aioe.org> <l8sVh.1937$Ca7.573@newsfe3-win.ntli.net>
<f05k07$ts3$1@aioe.org> <4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
<nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net> <f07a0m$eob$1@aioe.org>
<CjNVh.1648$mk4.948@newsfe4-win.ntli.net>
<4627b084$0$29219$dbd49001@news.wanadoo.nl>
<rjcf23liderou43uobothkatp1qruskqe1@4ax.com>
<4ZOdnWnsCZsEIrrbnZ2dnUVZ_iydnZ2d@comcast.com>
<evqg231dalnsv9r8mf48ovgkft53b8i2ak@4ax.com> <Z93Wh.7110$ya1.5443@news02.roc.ny>
<fuqh23pavmll4gjlsp5s4m9su36vqcsruq@4ax.com>
In-Reply-To: <fuqh23pavmll4gjlsp5s4m9su36vqcsruq@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 24
Message-ID: <%86Wh.7017$B25.6017@news01.roc.ny>
X-Complaints-To: abuse-news@frontiernet.net
X-Trace:
52616e646f6d4956aa8b238aa2f708cb2686041980b0253511fad036c8c738af1efbe444ff8267d2a3
e396299639a601745a32cf2bc766a40800fb1b4bdc195b0b7e7f0ba2a58cae98661ce672e4aa56a754
e059b7e9424563e3e44a6efb51ac8f2d53da2e5ef49c896f1aea47c9b32356aac911afc29ef6a7b3f4
636ca2355e
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Fri, 20 Apr 2007 16:47:55 UTC
Date: Fri, 20 Apr 2007 16:47:55 GMT
Xref: g2news1.google.com uk.radio.amateur:110137 rec.radio.amateur.homebrew:13067

Spike wrote:
> gwatts wrote:
>
>
>>Spike wrote:
>>
>>
>>>NoMoreSpam wrote:
>>>
>>>
>>>>Watching these Brits make asses of themselves makes me proud to be an
American!
>>>
>>>Remind me again how democracy is progressing in Iraq.
>>
>>Funny, coming from someone in a country that invaded Iraq in WW1, 1941
>>and basically set up the whole region to become what it is today.
>>
>>Blame can be cast everywhere, how about casting some solutions for a change?
>
>
> How about "Yanks Go Home"?
```

If you examine the polls you'll see most Yanks agree with that
sentiment. Now if we could get your PM on board...

```
From -2022374203925469430
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Thread: fc8b1,288b3a2c51615653
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!bcklog2.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 20 Apr 2007 12:31:21 -0500
Date: Fri, 20 Apr 2007 13:31:21 -0400
From: William Warren <""w_warren_nonoise\"@comcast(William Warren).net">
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Homebrew 11 tube CB receiver info wanted
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
<1177080584.720520.166130@d57g2000hsg.googlegroups.com>
In-Reply-To: <1177080584.720520.166130@d57g2000hsg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <eeidnQwx0qd0ZbXbnZ2dnUVZ_obinZ2d@comcast.com>
Lines: 29
NNTP-Posting-Host: 66.31.246.25
X-Trace: sv3-3HSojF6/Tbrq8Ga6NEbL592ffyfxRbwQ5cOJrpjVORHUoSZtVQPIi/
tosmkRROxn7I3I6cajnkIft+8!
jEsOsxBnibOS9H3pUbzIln9f3XSjNZvBAjYMSQkLw9pAF4dHOSv9wCDzWAlPU2u20aRpw9K0Lmnj!
OAkn9tMB3tqyLMczOvvM0PXJ8Qcq
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13068
rec.radio.amateur.boatanchors:11361
```

Jim wrote:

> Thanks for all the replies.
>
> The chassis is very professionally done. The wiring is not so well
> done. The filter cap wiring on the transmitter socket divider is a
> joke. Thus the idea of a kit seems reasonable. There is only one
> crystal socket. So the Knight Kit seems to be out. Family issues are
> keeping me from more work on the rig right now, So I'll have to just
> wait see what else is posted here, for a while before trying to draw a
> schematic
>
> I really am impressed by those that want to help, plus I've learned
> some things.

>
>
> Thankjs again.
>
> Jim
>
>

Jim,

I suggest you post pictures in alt.binaries.pictures.radio, and post a
pointer here, so that viewers can see what we're talking about.

William

(Filter noise from my address for direct replies)

From 5964949881330025436
X-Google-Thread: fc2a5,cf6dd909f3daf044
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out02b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe14.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <QjTUh.521278$Ju2.450125@newsfe16.lga>
<pbidnQW9E8S2LLnbRVnyugA@pipex.net>
<1177052527.644877.176910@p77g2000hsh.googlegroups.com>
Subject: Re: Power Rheostat Question..
Lines: 34
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <Ai9Wh.147078$Pi4.64561@newsfe14.lga>
Date: Fri, 20 Apr 2007 16:22:56 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe14.lga 1177100576 68.0.230.122 (Fri, 20 Apr 2007 13:22:56 MST)
NNTP-Posting-Date: Fri, 20 Apr 2007 13:22:56 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13069

"terry" <tsanford@nf.sympatico.ca> wrote in message
news:1177052527.644877.176910@p77g2000hsh.googlegroups.com...
> On Apr 17, 2:35 pm, Highland Ham <abcgm0csz.kn6wh...@dsl.pipex.com>
> wrote:

>> Uncle Peter wrote:
>> > Does reducing the resistance affect the wattage rating
>> > of a power rheostat? I'd imagine it does, but I'm not
>> > sure how it would be derated..
>>
> That's logical.
> But just to nit-pick! :-)
> Got one of those ceramic tubular adjustable slide resistors. Rated at
> 300 watts IIRC.
> If I put the slider half way along I will have half the resistance
> wire in the circuit and dissipating heat at full current rating;
> correct?
> But still the same thermal mass of ceramic and metal. So could one
> perhaps argue that it might be 'slightly' (very slightly perhaps) a
> little more than half the power rating. Probably nothing to have any
> effect whatsoever in practice because one would not run a component at
> maximum rating at any setting anyway?
>

Hi Terry

That's what I was wondering, the mass of the heatsink
the windings are on should have a bearing on
the wattage... Lacking manufacturer data I guess it
is a moot point and I'll take a conservative tack..

Pete

From 2325748518843257167
X-Google-Thread: fc2a5,74146c4ef100f57a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe14.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1177042690.411155.283850@y5g2000hsa.googlegroups.com>
<4628a729$0$8715$ed2619ec@ptn-nntp-reader02.plus.net>
Subject: Re: help needed on hi-V power supply circuit
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <2Y9Wh.147496$Pi4.95962@newsfe14.lga>
Date: Fri, 20 Apr 2007 17:07:08 -0400

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NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe14.lga 1177103230 68.0.230.122 (Fri, 20 Apr 2007 14:07:10 MST)
NNTP-Posting-Date: Fri, 20 Apr 2007 14:07:10 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13070


"John A" <e455gkf@yahoo.co.uk> wrote in message
news:4628a729$0$8715$ed2619ec@ptn-nntp-reader02.plus.net...
>>  > As a first, simple, experiment disconnect the 10uF nearest the
>> rectifier and
> reconnect it in parallel with the other 10uF. Then see what DC voltages
> you
> get when drawing currents between 120 and 230mA. If it is near enough to
> the
> 370v you require, then add suitable resistors to deliver the other supply
> voltages and currents you've specified and you've got what you need.
>
>

I second dropping the first filter capacitor. It will lower
the voltage and reduce the strain on the power transformer
as well.

Pete





From -6599166782996529512
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!bcklog2.nntp.dca.giganews.com!
nntp.bt.com!news.bt.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 20 Apr 2007 17:20:25 -0500
Date: Fri, 20 Apr 2007 23:19:14 +0100
From: Dave <davenpat@btopenworld.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
References: <f04fdb$h2n$1@aioe.org> <l8sVh.1937$Ca7.573@newsfe3-win.ntli.net>
<f05k07$ts3$1@aioe.org> <4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
<nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net> <f07a0m$eob$1@aioe.org>
<CjNVh.1648$mk4.948@newsfe4-win.ntli.net>
<4627b084$0$29219$dbd49001@news.wanadoo.nl>
<rjcf23liderou43uobothkatp1qruskqe1@4ax.com>
```

```
<4ZOdnWnsCZsEIrrbnZ2dnUVZ_iydnZ2d@comcast.com>
<evqg231dalnsv9r8mf48ovgkft53b8i2ak@4ax.com> <Z93Wh.7110$ya1.5443@news02.roc.ny>
<fuqh23pavmll4gjlsp5s4m9su36vqcsruq@4ax.com> <%86Wh.7017$B25.6017@news01.roc.ny>
In-Reply-To: <%86Wh.7017$B25.6017@news01.roc.ny>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <ULOdnWiT6sA3obTbnZ2dnUVZ8vednZ2d@bt.com>
Lines: 36
NNTP-Posting-Host: 86.134.243.236
X-AuthenticatedUsername: NoAuthUser
X-Trace: sv3-GVDNmB6YP5QgAANUefzoJzdHgZ83Z/WO1Xa2YAazXdDhZFTY5XsRM/
qcRhfqCxu2uvEz3pyKeKkS2bk!
JCZ4FOQ49Qn68fU+7AxSNI00V8w8Kkl64cGUhrwJWNdqXLc3YcngzaOefd7rrkFb8kAG+4FbwUfl
X-Complaints-To: abuse@btinternet.com
X-DMCA-Complaints-To: abuse@btinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com uk.radio.amateur:110192 rec.radio.amateur.homebrew:13071

gwatts wrote:
> Spike wrote:
>
>> gwatts wrote:
>>
>>
>>> Spike wrote:
>>>
>>>
>>>> NoMoreSpam wrote:
>>>>
>>>>
>>>>> Watching these Brits make asses of themselves makes me proud to be
>>>>> an American!
>>>>
>>>>
>>>> Remind me again how democracy is progressing in Iraq.
>>>
>>>
>>> Funny, coming from someone in a country that invaded Iraq in WW1,
>>> 1941 and basically set up the whole region to become what it is today.
>>>
>>> Blame can be cast everywhere, how about casting some solutions for a
>>> change?
>>
>>
>>
>> How about "Yanks Go Home"?
>
>
> If you examine the polls you'll see most Yanks agree with that
> sentiment.  Now if we could get your PM on board...
```

Do we have a PM? Or is he just a grin on a stick?

Dave

```
From -8235509218584687933
X-Google-Thread: fc2a5,cf6dd909f3daf044
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
b75g2000hsg.googlegroups.com!not-for-mail
From: K7ITM <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power Rheostat Question..
Date: 20 Apr 2007 16:55:44 -0700
Organization: http://groups.google.com
Lines: 66
Message-ID: <1177113344.506712.187140@b75g2000hsg.googlegroups.com>
References: <QjTUh.521278$Ju2.450125@newsfe16.lga>
   <pbidnQW9E8S2LLnbRVnyugA@pipex.net>
   <1177052527.644877.176910@p77g2000hsh.googlegroups.com>
   <Ai9Wh.147078$Pi4.64561@newsfe14.lga>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1177113344 12132 127.0.0.1 (20 Apr 2007 23:55:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 20 Apr 2007 23:55:44 +0000 (UTC)
In-Reply-To: <Ai9Wh.147078$Pi4.64561@newsfe14.lga>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.11)
Gecko/20070312 Firefox/1.5.0.11,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b75g2000hsg.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news1.google.com rec.radio.amateur.homebrew:13072
```

```
On Apr 20, 1:22 pm, "Uncle Peter" <radioconnect...@cox.net> wrote:
> "terry" <tsanf...@nf.sympatico.ca> wrote in message
>
> news:1177052527.644877.176910@p77g2000hsh.googlegroups.com...
>
>
>
> > On Apr 17, 2:35 pm, Highland Ham <abcgm0csz.kn6wh...@dsl.pipex.com>
> > wrote:
> >> Uncle Peter wrote:
> >> > Does reducing the resistance affect the wattage rating
> >> > of a power rheostat? I'd imagine it does, but I'm not
> >> > sure how it would be derated..
>
> > That's logical.
```

> > But just to nit-pick! :-)
> > Got one of those ceramic tubular adjustable slide resistors. Rated at 300 watts IIRC.
> > If I put the slider half way along I will have half the resistance wire in the circuit and dissipating heat at full current rating; correct?
> > But still the same thermal mass of ceramic and metal. So could one perhaps argue that it might be 'slightly' (very slightly perhaps) a little more than half the power rating. Probably nothing to have any effect whatsoever in practice because one would not run a component at maximum rating at any setting anyway?
>
> Hi Terry
>
> That's what I was wondering, the mass of the heatsink the windings are on should have a bearing on the wattage... Lacking manufacturer data I guess it is a moot point and I'll take a conservative tack..
>
> Pete

The manufacturers, all I've ever seen, take that conservative tack and just put a maximum current rating on them. In the case of a rheostat, you need to consider the rating of the slider, and I'll bet you get longer slider life if you adjust it when the current is zero than when it's the full rated value.

What Terry wrote has a lot of merit. In fact, with the tubular ceramics with a hollow core, you could quite reasonably get more dissipation with a given temperature rise if you orient the resistor vertically in free air, as opposed to horizontally, since it acts like a stack and will get considerable air flowing by virtue of the heat. If you REALLY wanted to optimize such a resistor, you'd space the turns further apart on the end that was going to be on top! Also, I can tell you that little 0603 surface mount resistors, nominally rated at 1/16 watt, can dissipate a whole lot more (1/4 watt!) than that if you keep other heat dissipators away from them and provide wide copper paths to lead the heat away from them; but on the othe hand if you put a whole mess of them as close together as your design rules let you and ask each to dissipate the same power, you'll find you may not be able to go above 1/100 of a watt each without getting them too hot. So not only does the amount of the rheostat in actual use make a difference, it makes a difference how you cool it. Turn a fan on it and don't adjust it while it's got current through it, and you MAY be able to safely add 40% over its current rating. YMMV, though. You know what to do to be conservative.

Cheers,
Tom

From -7841507865760938599
X-Google-Thread: fc2a5,941a5d578b07de9e,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!wns13feed!
worldnet.att.net!63.218.45.11!nx02.iad01.newshosting.com!newshosting.com!
post01.iad01!roadrunner.com!not-for-mail
From: "DJboutit" <Recordking@Hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Check Out Radio Pirates Forum
Date: Fri, 20 Apr 2007 23:10:18 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Lines: 5
Message-ID: <462988b1$0$1404$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13074

For all you pirate radio needs many sections to keep you busy lots of
technical info meet other who are into the world of pirate radio
www.radiopirates.com

From 6095212562746055162
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-in.ntli.net!
newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!xara.net!gxn.net!
feed4.jnfs.ja.net!jnfs.ja.net!qmul!peer-uk.news.demon.net!kibo.news.demon.net!
mutlu.news.demon.net!news.demon.co.uk!demon!g3ohx.demon.co.uk!
IanJacksonRemoveThisBit
From: Ian Jackson <IanJacksonRemoveThisBit@g3ohx.demon.co.uk>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Sat, 21 Apr 2007 08:43:33 +0100
Lines: 15
Message-ID: <OAuQIZIlCcKGFwyW@g3ohx.demon.co.uk>
References: <evvkn4$236$1@aioe.org> <pEOUh.1757$771.914@newsfe2-win.ntli.net>
 <4623be82$0$21107$dbd43001@news.wanadoo.nl>
Reply-To: Ian Jackson <IanJackson@REMOVE-THIS-BITg3ohx.demon.co.uk>
NNTP-Posting-Host: g3ohx.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1177141420 3835 80.176.138.122 (21 Apr 2007 07:43:40
GMT)
X-Complaints-To: abuse@demon.net

```
NNTP-Posting-Date: Sat, 21 Apr 2007 07:43:40 +0000 (UTC)
User-Agent: Turnpike/6.02-S (<TJ0VKlySlxi7kGP8bkzInRG7RW>)
Xref: g2news1.google.com uk.radio.amateur:110220 rec.radio.amateur.homebrew:13075

In message <4623be82$0$21107$dbd43001@news.wanadoo.nl>, know code
<know_code@wanadoo.nl> writes
>Brian Reay wrote:
>
>> Why don't you rough out a plan and design a few of these "biscuits"
>>and publish them on a website or maybe in one of the various journals
>>that support the hobby.
>
>So, not RadComic then!
>

Which 'various journals'? They're gae few, these days. They're aa' deid!
Ian.
--




From 3604564204240185851
X-Google-Thread: fc2a5,218db34d7af6004b,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!solaris.cc.vt.edu!
news.vt.edu!news.netins.net!not-for-mail
From: Tehrasha Darkon <darkon@netins.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Need help identifing IC.
Date: Mon, 16 Apr 2007 01:11:56 +0000 (UTC)
Organization: netINS InterNetNews site
Lines: 7
Message-ID: <evuigs$5qg$1@news.netins.net>
NNTP-Posting-Host: desm-34-211.dsl.netins.net
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
X-Trace: news.netins.net 1176685916 5968 167.142.34.211 (16 Apr 2007 01:11:56 GMT)
X-Complaints-To: abuse@netins.net
NNTP-Posting-Date: Mon, 16 Apr 2007 01:11:56 +0000 (UTC)
User-Agent: pan 0.124 (Goblin Worlds)
Xref: g2news1.google.com rec.radio.amateur.homebrew:13076

6 pin DIP

Only markings are...

65-01
309F
KOREA
```

From 9018863479006988262
X-Google-Thread: fc2a5,74146c4ef100f57a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e65g2000hsc.googlegroups.com!not-for-mail
From: N2EY@AOL.COM
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: help needed on hi-V power supply circuit
Date: 21 Apr 2007 03:46:23 -0700
Organization: http://groups.google.com
Lines: 40
Message-ID: <1177152383.544384.286380@e65g2000hsc.googlegroups.com>
References: <1177042690.411155.283850@y5g2000hsa.googlegroups.com>
NNTP-Posting-Host: 205.188.116.70
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1177152383 12994 127.0.0.1 (21 Apr 2007 10:46:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 21 Apr 2007 10:46:23 +0000 (UTC)
In-Reply-To: <1177042690.411155.283850@y5g2000hsa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows 98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 spider-dtc-tc05.proxy.aol.com[CDBC7119] (Prism/1.2.0), HTTP/1.1 cache-dtc-ab06.proxy.aol.com[CDBC7446] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: e65g2000hsc.googlegroups.com; posting-host=205.188.116.70;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news1.google.com rec.radio.amateur.homebrew:13077

On Apr 20, 12:18?am, "Ross Tucker, NS7F" <rjtu...@gmail.com> wrote:

> A little over a year ago, I posted a request for help (1) in designing
> a circuit to get 300VDC out of a power supply that was pumping out
> ~520VDC.

Let's start at the beginning.

You have a power transformer and a rectifier, followed by a C-L-C filter (aka capacitor input). And you're getting a bit over 500 VDC from it.

1) What rectifier circuit are you using?

a) full-wave center-tap
b) full-wave bridge
c) voltage doubler
d) some other type (specify)

2) What sort of rectifier(s) are you using?

a) High vacuum diodes (5U4G, 5Y3GT, 5R4GY, etc.)
b) Solidstate silicon diodes (1N4007, etc.)
c) some other type (specify)

3) What are the transformer ratings, part number, etc.?

4) Which of the listed transmitters have you built?

73 de Jim, N2EY

From 8722028298745953453
X-Google-Thread: fc2a5,218db34d7af6004b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.stanford.edu!sn-xt-sjc-03!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need help identifing IC.
Date: Sat, 21 Apr 2007 08:35:05 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <132k4pijr97g472@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <evuigs$5qg$1@news.netins.net>
In-Reply-To: <evuigs$5qg$1@news.netins.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 18
Xref: g2news1.google.com rec.radio.amateur.homebrew:13078

Tehrasha Darkon wrote:

> 6 pin DIP
>
> Only markings are...
>
> 65-01
> 309F
> KOREA

It may help to post the date codes from other components
and also make, model and manufacturer of your device.
At first glance the 'top markings' look like a house number.
Also, what is imprinted on the underside of the device?

Regards,

Michael

From -5845692598987098840
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!proxad.net!
194.117.148.138.MISMATCH!pe2.news.blueyonder.co.uk!blueyonder!
pe1.news.blueyonder.co.uk!blueyonder!fe3.news.blueyonder.co.uk.POSTED!070b70e7!
not-for-mail
From: microwaves@blueyonder.co.uk (Peter)
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Message-ID: <462a130b.108196308@news.blueyonder.co.uk>
References: <f04fdb$h2n$1@aioe.org> <l8sVh.1937$Ca7.573@newsfe3-win.ntli.net>
<f05k07$ts3$1@aioe.org> <4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
<nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net> <f07a0m$eob$1@aioe.org>
<CjNVh.1648$mk4.948@newsfe4-win.ntli.net>
<4627b084$0$29219$dbd49001@news.wanadoo.nl>
<rjcf23liderou43uobothkatp1qruskqe1@4ax.com>
<4ZOdnWnsCZsEIrrbnZ2dnUVZ_iydnZ2d@comcast.com>
<evqg231dalnsv9r8mf48ovgkft53b8i2ak@4ax.com> <Z93Wh.7110$ya1.5443@news02.roc.ny>
X-Newsreader: Forte Agent 1.5/32.452
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 17
Date: Sat, 21 Apr 2007 13:36:20 GMT
NNTP-Posting-Host: 82.38.239.235
X-Complaints-To: http://www.virginimedia.com/netreport
X-Trace: fe3.news.blueyonder.co.uk 1177162580 82.38.239.235 (Sat, 21 Apr 2007
14:36:20 BST)
NNTP-Posting-Date: Sat, 21 Apr 2007 14:36:20 BST
Xref: g2news1.google.com uk.radio.amateur:110264 rec.radio.amateur.homebrew:13079

On Fri, 20 Apr 2007 13:24:09 GMT, gwatts <gwatts@frontiernet.net>
wrote:

>Spike wrote:
>> NoMoreSpam wrote:
>>
>>
>>>Watching these Brits make asses of themselves makes me proud to be an American!

>>
>>
>> Remind me again how democracy is progressing in Iraq.
>
>Funny, coming from someone in a country that invaded Iraq in WW1, 1941
>and basically set up the whole region to become what it is today.

and Granada and Cuba and Diego Garcia, etc etc !!

```
From 5754402563159239506
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!bcklog2.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 21 Apr 2007 08:44:57 -0500
Date: Sat, 21 Apr 2007 14:45:01 -0400
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Thunderbird 1.5.0.10 (X11/20070305)
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
References: <f04fdb$h2n$1@aioe.org> <l8sVh.1937$Ca7.573@newsfe3-win.ntli.net>
<f05k07$ts3$1@aioe.org> <4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
<nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net> <f07a0m$eob$1@aioe.org>
<CjNVh.1648$mk4.948@newsfe4-win.ntli.net>
<4627b084$0$29219$dbd49001@news.wanadoo.nl>
<rjcf23liderou43uobothkatp1qruskqe1@4ax.com>
<4ZOdnWnsCZsEIrrbnZ2dnUVZ_iydnZ2d@comcast.com>
<evqg231dalnsv9r8mf48ovgkft53b8i2ak@4ax.com> <Z93Wh.7110$ya1.5443@news02.roc.ny>
<462a130b.108196308@news.blueyonder.co.uk>
In-Reply-To: <462a130b.108196308@news.blueyonder.co.uk>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <5OGdndd3zOPEiLfbRVnytwA@pipex.net>
Lines: 21
NNTP-Posting-Host: 81.178.93.128
X-Trace: sv3-
VeAVBAVbX87rSAZ9kHvFmsYIPd5MjsjqFb8Tjttui58J+A6HrgBr8iy6OdQX2ZoBEXJOn6wRJa/VtI0!
AcWi3s6/L5lKlnurqXG5U+u6eQuHWNIk6M4t3fmDJUyIfLJsKr9wx5kLCdRNP5OPTf0Qt9USGnjg!
ZxcGs73jfer7gA==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com uk.radio.amateur:110266 rec.radio.amateur.homebrew:13080
```

Peter wrote:
> On Fri, 20 Apr 2007 13:24:09 GMT, gwatts <gwatts@frontiernet.net>
> wrote:
>
>> Spike wrote:
>>> NoMoreSpam wrote:
>>>
>>>
>>>> Watching these Brits make asses of themselves makes me proud to be an
American!
>>>
>>> Remind me again how democracy is progressing in Iraq.
>> Funny, coming from someone in a country that invaded Iraq in WW1, 1941
>> and basically set up the whole region to become what it is today.
>
>
> and Granada and Cuba and Diego Garcia, etc etc !!
========================
It appears there is some digression here ; suggest you stick to the
topic as per the header.

Frank   GM0CSZ / KN6WH

From -1594448177720571251
X-Google-Thread: fc2a5,218db34d7af6004b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.stanford.edu!news.kjsl.com!
ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need help identifing IC.
Date: 21 Apr 2007 14:22:05 GMT
Organization: The National Capital FreeNet
Lines: 18
Message-ID: <f0d6md$o50$1@theodyn.ncf.ca>
References: <evuigs$5qg$1@news.netins.net>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1177165325 24736 134.117.136.48 (21 Apr 2007 14:22:05 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 21 Apr 2007 14:22:05 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13081

Tehrasha Darkon (darkon@netins.net) writes:
> 6 pin DIP
>
> Only markings are...
>
> 65-01
> 309F
> KOREA

Generally, 6 pin DIPs are optoisolators.

There must be exceptions, but every time I see one I start
with the assumption that it's an optoisolator.

I think the second choice would be a pair of transistors.

Michael VE2BVW

```
From 8447778885502821564
X-Google-Thread: fc2a5,218db34d7af6004b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe21.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <evuigs$5qg$1@news.netins.net> <f0d6md$o50$1@theodyn.ncf.ca>
Subject: Re: Need help identifing IC.
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <37rWh.99168$s8.76514@newsfe21.lga>
Date: Sat, 21 Apr 2007 12:39:24 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe21.lga 1177173567 68.0.230.122 (Sat, 21 Apr 2007 09:39:27 MST)
NNTP-Posting-Date: Sat, 21 Apr 2007 09:39:27 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13082
```

"Michael Black" <et472@FreeNet.Carleton.CA> wrote in message > Generally, 6
pin DIPs are optoisolators.

> There must be exceptions, but every time I see one I start
> with the assumption that it's an optoisolator.

I vaguely remember Motorola's odd, short-lived
line of linear devices back in the 60s or 70s..
MFCxxx rings a bell. They had attenuators, oddball
audio amps. I think there were some six pin devices,
but they were also an offset lead package.

Pete

From -5668052520598483187
X-Google-Thread: fc2a5,218db34d7af6004b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!solaris.cc.vt.edu!
news.vt.edu!news.netins.net!not-for-mail
From: Tehrasha Darkon <darkon@netins.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need help identifing IC.
Date: Sat, 21 Apr 2007 17:36:25 +0000 (UTC)
Organization: netINS InterNetNews site
Lines: 21
Message-ID: <f0di2p$gir$1@news.netins.net>
References: <evuigs$5qg$1@news.netins.net>
     <132k4pijr97g472@corp.supernews.com>
NNTP-Posting-Host: desm-34-140.dsl.netins.net
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
X-Trace: news.netins.net 1177176985 16987 167.142.34.140 (21 Apr 2007 17:36:25
GMT)
X-Complaints-To: abuse@netins.net
NNTP-Posting-Date: Sat, 21 Apr 2007 17:36:25 +0000 (UTC)
User-Agent: Pan/0.127 (Eckythump)
Xref: g2news1.google.com rec.radio.amateur.homebrew:13083

On Sat, 21 Apr 2007 08:35:05 -0500, msg wrote:

> Tehrasha Darkon wrote:
>
>> 6 pin DIP
>>
>> Only markings are...
>>
>> 65-01
>> 309F
>> KOREA
>
> It may help to post the date codes from other components and also make,
> model and manufacturer of your device. At first glance the 'top
> markings' look like a house number. Also, what is imprinted on the
> underside of the device?

I have 8 of these, raw chips, not part of an assembly. There are no
other markings.

--Teh

From -8367607435133614910

```
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d57g2000hsg.googlegroups.com!not-for-
mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew 11 tube CB receiver info wanted
Date: 21 Apr 2007 11:29:27 -0700
Organization: http://groups.google.com
Lines: 78
Message-ID: <1177180167.456904.192000@d57g2000hsg.googlegroups.com>
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
   <1177080584.720520.166130@d57g2000hsg.googlegroups.com>
   <eeidnQwx0qd0ZbXbnZ2dnUVZ_obinZ2d@comcast.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1177180167 20636 127.0.0.1 (21 Apr 2007 18:29:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 21 Apr 2007 18:29:27 +0000 (UTC)
In-Reply-To: <eeidnQwx0qd0ZbXbnZ2dnUVZ_obinZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-te07.proxy.aol.com[CFC87223] (Prism/1.2.0), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: d57g2000hsg.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com rec.radio.amateur.homebrew:13084
```

For general information on "first CBs:"

The September or October, 1958, edition of Radio and Television News magazine (available then at most newsstands) carried the news of the opening of Class C and D Citizens Band service. The month was probably October since the news was on one page of "latest news" which went to [printer's] bed the very last.

The March, 1959, issue of Radio and Television News carried an article by Don Stoner as a how-to-build CB voice transceiver with full plans, parts, etc. That issue was popular in the southern California aerospace community at the time with many attempting to build it but few succeeding in getting a working unit. Don Stoner was one of the frequent authors in the popular magazines of the time, would later team with Pierre Goral to form SGC [Stoner-Goral Company] in the Seattle area. Both are SK but SGC lives on.

A number of copy-cat kits went on the market soon after, most being variations of Stoner's article. My own experiment was a converter for an AM radio as a receiver, similar to Stoner's "Q-Fiver" other-magazine article on an HF converter for a WWII surplus ARC-5 Command Set LF receiver. While that succeeded for me, the transmitter part didn't work well, a result of my ignorance in low-power RF design for AM stages at the time. Several months later I bought an E.F.Johnson Viking Messenger CB transceiver and used that in an aluminimum-body Austin-Healey sports car (ideal ground plane for mobile).

Since the FCC did not specify type-acceptance per se on CB transmitters until years later, nor directly say that "home-built" transceivers could not be used, the first two years of "11m" CB was an open field to play in and there were many variations. In that shake-out time, general design of first transceivers was a single-conversion superhet receiver with crystal-controlled LO, a 3rd-overtone crystal oscillator to a plate-modulated power amplifier for the transmitter, AM from using the receiver's audio output stage as modulator. AM was generally "down-modulation" with carrier going from about 1.4 times quiet CW level to zero, more a result of tube stage saving and low-level drive to the PA. It was one pair of crystals per channel, the expensive part of operation; surplus quartz crystals from WWII were available from many small shops at the time so it was not a great barrier. Mobile operation required the old "vibrator" supply, always a troublesome thing for any mobile equipment needing HV from before WWII until after. Power-transistor multivibrator switching supply substitutes for vibrator supplies was not good due to (generally) horrendous spikes and RF hash generated by early power transistors and diodes with insufficient switching times. Still, it was a fun time of experimentation for thousands of home-brewers then.

Frequency synthesizers for "all-channel" operation didn't appear in quantity until designs went solid-state. A few tube designs used "channel-bank" mixing of two crystal controlled oscillators to cut the number of crystals needed, an architecture carried on when CB went to 40 channels in 1977. In the 1960s the lower-cost off-shore-made CBs hit the market and were a hit with truckers on the interstates; the FCC tossed in the type-acceptance rule and that pretty much reduced the CB home-brewing projects.

Although the FCC required licensing of 11m CB in the beginning, there was never any associated test and the "license" was a pro-forma Third-Class Restricted Radiotelephone type, similar to what was required of private pilots using civil aviation radios. Through some oversight, the FCC assigned license call-signs with a prefix of "11W," this got them in trouble with the ITU and international agreements. For a brief period CB licenses were issued with "K" prefixes before regulations removed the need for licensing.

For illustrations of early CB, go to www.retrocom.com, a large
website of stories and pictures of CBs.

73, Len AF6AY

From -9095715223619502922
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!198.186.194.250.MISMATCH!transit3.readnews.com!news-out.readnews.com!news-out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew 11 tube CB receiver info wanted
Date: Sat, 21 Apr 2007 18:59:02 +0000 (UTC)
Organization: MGT Consulting
Lines: 21
Message-ID: <slrnf2knh4.7h3.gsm@cable.mendelson.com>
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
<1177080584.720520.166130@d57g2000hsg.googlegroups.com>
<eeidnQwx0qd0ZbXbnZ2dnUVZ_obinZ2d@comcast.com>
<1177180167.456904.192000@d57g2000hsg.googlegroups.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-139-69-52.bb.netvision.net.il
X-Trace: marvin.misty.com 1177181942 15561 89.139.69.52 (21 Apr 2007 18:59:02 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Sat, 21 Apr 2007 18:59:02 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news1.google.com rec.radio.amateur.homebrew:13085

AF6AY wrote:
> Although the FCC required licensing of 11m CB in the beginning,
> there was never any associated test and the "license" was a
> pro-forma Third-Class Restricted Radiotelephone type, similar
> to what was required of private pilots using civil aviation
> radios. Through some oversight, the FCC assigned license
> call-signs with a prefix of "11W," this got them in trouble
> with the ITU and international agreements. For a brief period
> CB licenses were issued with "K" prefixes before regulations
> removed the need for licensing.

Were them "CB callbooks? Does anyone have them? I had a CB license in
the "K" era (circa 1979). and have long since lost it. I would like
to look up my call.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM

```
IL Voice: (07)-7424-1667  Fax ONLY: 972-2-648-1443 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/


From 864720412512639l4
X-Google-Thread: fc2a5,218db34d7af6004b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!hwmnpeer01.phx!news.highwinds-
media.com!hw-filter.phx!newsfe15.phx.POSTED!53ab2750!not-for-mail
From: David L. Foreman <davelf11@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need help identifing IC.
Organization: 2 Copy Site License
Message-ID: <7suk23dcvcck93a1jj05odrsqv0fgmciu9@4ax.com>
References: <evuigs$5qg$1@news.netins.net> <f0d6md$o50$1@theodyn.ncf.ca>
X-Newsreader: Forte Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 38
Date: Sat, 21 Apr 2007 14:05:04 -0700
NNTP-Posting-Host: 72.200.118.92
X-Complaints-To: admin@cox.net
X-Trace: newsfe15.phx 1177189504 72.200.118.92 (Sat, 21 Apr 2007 14:05:04 MST)
NNTP-Posting-Date: Sat, 21 Apr 2007 14:05:04 MST
Xref: g2news1.google.com rec.radio.amateur.homebrew:13086

On 21 Apr 2007 14:22:05 GMT, et472@FreeNet.Carleton.CA (Michael Black) wrote:

>Tehrasha Darkon (darkon@netins.net) writes:
>> 6 pin DIP
>>
>> Only markings are...
>>
>> 65-01
>> 309F
>> KOREA
>
>Generally, 6 pin DIPs are optoisolators.
>
>There must be exceptions, but every time I see one I start
>with the assumption that it's an optoisolator.
>
>I think the second choice would be a pair of transistors.
>
>  Michael  VE2BVW


Found the following on the NTEINC web site.
```

Replace part....	With NTE part....	Product Line	Data Sheets	Notes
65-01	NTE3040	Semiconductor		

NTE3040
Optoisolator
NPN Transistor Output
6 lead DIP

1 -- Anode of LED
2 -- Cathode of LED
3 -- NC
4 -- Base of output transistor
5-- Collector of output transistor
6 -- Emitter of output transistor

From 5705903320450145857
X-Google-Thread: fc2a5,218db34d7af6004b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.stanford.edu!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need help identifing IC.
Date: 21 Apr 2007 22:45:47 GMT
Organization: The National Capital FreeNet
Lines: 33
Message-ID: <f0e46r$9de$1@theodyn.ncf.ca>
References: <evuigs$5qg$1@news.netins.net> <f0d6md$o50$1@theodyn.ncf.ca> <37rWh.99168$s8.76514@newsfe21.lga>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1177195547 9646 134.117.136.48 (21 Apr 2007 22:45:47 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 21 Apr 2007 22:45:47 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13087

"Uncle Peter" (radioconnection@cox.net) writes:
> "Michael Black" <et472@FreeNet.Carleton.CA> wrote in message
>> Generally, 6
>> pin DIPs are optoisolators.
>>
>> There must be exceptions, but every time I see one I start
>> with the assumption that it's an optoisolator.
>
> I vaguely remember Motorola's odd, short-lived
> line of linear devices back in the 60s or 70s..
> MFCxxx rings a bell. They had attenuators, oddball
> audio amps. I think there were some six pin devices,
> but they were also an offset lead package.
>

> Pete
>
>

That was a a really weird line. I seem to recall some were actually four pins. They seemed for much intended for consumer equipment, and it seemed like they tried to fit the package to the device, rather than have something like a 14 pin package and have everything fit in it no matter how few pins they actually needed.

I think some of the line included dividers that would run off 12v, intended for music organs.

I honestly did not include those in my "there must be exceptions". I'm not sure now if I put that in just to be sure, or I was thinking of something (that I can't remember at the moment) that do come in 6pin DIPs.

Michael VE2BVW

```
From 1425388614860080858
X-Google-Thread: fc2a5,218db34d7af6004b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!tethys.csu.net!
nntp.csufresno.edu!sn-xt-sjc-03!sn-xt-sjc-08!sn-post-sjc-02!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need help identifing IC.
Date: Sat, 21 Apr 2007 18:37:23 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <132l82t9gad7u69@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <evuigs$5qg$1@news.netins.net> <132k4pijr97g472@corp.supernews.com>
In-Reply-To: <132k4pijr97g472@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 32
Xref: g2news1.google.com rec.radio.amateur.homebrew:13088
```

msg wrote:
> Tehrasha Darkon wrote:
>
>> 6 pin DIP
>>
>> Only markings are...
>>

>> 65-01
>> 309F
>> KOREA
>
>

My 1996 edition of the ECG Replacement Catalog lists the ECG3040 Optoisolator as a replacement for '65-01':

Output: NPN Transistor, Viso=7500V, Pt(mw)=250 Ic/If=20%,
If(ma)=80, Vr=3V, BVcbo=70V, BVceo=30V, Ic(ma)=3.5 Ftyp=300KHz

Basing Diagram (top view)

```
     ---------
   A| 1     6 | Base    A = LED anode
    |         |
   C| 2     5 | Coll.   C = LED cathode
    |         |
    | 3     4 | Emit.
     ---------
```

Regards,

Michael

```
From 2894573303015206063
X-Google-Thread: fc2a5,e076391528d5094f,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!sn-xt-
sjc-04!sn-xt-sjc-08!sn-post-sjc-02!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ? on tuning caps
Date: Sat, 21 Apr 2007 22:40:22 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <132lm99nlrhgof7@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Complaints-To: abuse@supernews.com
Lines: 16
Xref: g2news1.google.com rec.radio.amateur.homebrew:13089
```

Hey all,

Would an air-gap tuning capacitor intended for transmitting hook up any differently from an air-gap tuning capacitor intended for receiving? I built a project following the schematic for a commercial product, but the (intended for transmitting) capacitor doesn't like being hooked up with the stator grounded. Can't figure out how to make it work the way the schematic is drawn, so I ungrounded the stator and take the input for the amplifier from there instead of the rotor. And doing this, it works fine. Anyone have any input? I'm all ears...

Thanks,

Dave

```
From 5011160210607653764
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p77g2000hsh.googlegroups.com!not-for-
mail
From: AF6AY <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Homebrew 11 tube CB receiver info wanted
Date: 21 Apr 2007 22:11:04 -0700
Organization: http://groups.google.com
Lines: 12
Message-ID: <1177218664.248138.21590@p77g2000hsh.googlegroups.com>
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
   <1177080584.720520.166130@d57g2000hsg.googlegroups.com>
   <eeidnQwx0qd0ZbXbnZ2dnUVZ_obinZ2d@comcast.com>
   <1177180167.456904.192000@d57g2000hsg.googlegroups.com>
   <slrnf2knh4.7h3.gsm@cable.mendelson.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1177218664 18732 127.0.0.1 (22 Apr 2007 05:11:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 22 Apr 2007 05:11:04 +0000 (UTC)
In-Reply-To: <slrnf2knh4.7h3.gsm@cable.mendelson.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-te06.proxy.aol.com[CFC8721E] (Prism/1.2.0), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: p77g2000hsh.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com rec.radio.amateur.homebrew:13090
```

> Were them "CB callbooks? Does anyone have them? I had a CB license in
> the "K" era (circa 1979). and have long since lost it. I would like

> to look up my call.
>
> Geoff.

I don't recall any "CB callbooks." Doesn't mean they don't
exist... :-)

73, Len AF6AY

From -2816413586038427568
X-Google-Thread: fc2a5,e076391528d5094f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!6bb7efb4!not-for-mail
From: "Richard Knoppow" <dickburk@ix.netcom.com>
Newsgroups: rec.radio.amateur.homebrew
References: <132lm99nlrhgof7@corp.supernews.com>
Subject: Re: ? on tuning caps
Lines: 36
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <UWFWh.7307$3P3.4334@newsread3.news.pas.earthlink.net>
Date: Sun, 22 Apr 2007 09:30:28 GMT
NNTP-Posting-Host: 4.233.125.212
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1177234228 4.233.125.212 (Sun, 22 Apr
2007 02:30:28 PDT)
NNTP-Posting-Date: Sun, 22 Apr 2007 02:30:28 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13091

"Dave" <db5151@hotmail.com> wrote in message
news:132lm99nlrhgof7@corp.supernews.com...
> Hey all,
>
> Would an air-gap tuning capacitor intended for
> transmitting hook up any differently from an air-gap
> tuning capacitor intended for receiving? I built a
> project following the schematic for a commercial product,
> but the (intended for transmitting) capacitor doesn't like
> being hooked up with the stator grounded. Can't figure
> out how to make it work the way the schematic is drawn, so
> I ungrounded the stator and take the input for the
> amplifier from there instead of the rotor. And doing
> this, it works fine. Anyone have any input? I'm all

> ears...
>
> Thanks,
>
> Dave
>

Its not the cap. The main difference between receiving and transmitting variable air capacitors is the voltage rating. Since transmitting capacitors are made for higher voltages they have greater plate spacing and consequently larger plates for the same capacitance. without seeing the circuit I can't guess as to what is wrong.

--

Richard Knoppow
Los Angeles, CA, USA
dickburk@ix.netcom.com

From -1777503604738056621
X-Google-Thread: fc2a5,e076391528d5094f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out04b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx01.iad01.newshosting.com!newshosting.com!news-feed01.roc.ny.frontiernet.net!
nntp.frontiernet.net!news01.roc.ny.POSTED!53ab2750!not-for-mail
From: Bill Janssen <billj@ieee.org>
Reply-To: billjNOT_THIS@ieee.org
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on tuning caps
References: <132lm99nlrhgof7@corp.supernews.com>
In-Reply-To: <132lm99nlrhgof7@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 26
Message-ID: <abLWh.7113$B25.3088@news01.roc.ny>
X-Complaints-To: abuse-news@frontiernet.net
X-Trace:
52616e646f6d4956aa8b238aa2f708cb997bb5f5427f166485b28d76e552b1eda5128aa9ec98a2f75e
6efb273a9ed6f8bb49a6e1f4f25776379a826c3a263b777892802a95ec9dde39bd96661113e14bda0b
69963209d2999a6c95addc057d1a14a53e64c2b2d5aceafacfd5beed27d0
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Sun, 22 Apr 2007 15:29:10 UTC
Date: Sun, 22 Apr 2007 15:29:10 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13092

Dave wrote:
> Hey all,
>
> Would an air-gap tuning capacitor intended for transmitting hook up any
> differently from an air-gap tuning capacitor intended for receiving? I
> built a project following the schematic for a commercial product, but the
> (intended for transmitting) capacitor doesn't like being hooked up with the
> stator grounded. Can't figure out how to make it work the way the schematic
> is drawn, so I ungrounded the stator and take the input for the amplifier
> from there instead of the rotor. And doing this, it works fine. Anyone
> have any input? I'm all ears...
>
> Thanks,
>
> Dave
>
>
>

No difference on the hook up question.

If you ground the stator the the shaft to the rotor will be "hot" and
that is probably your problem.
You can operate that way but you have to use an insulated coupling on
the shaft to the rotor.

Depending on the use, even that might give you trouble.

```
From -6748376422942594239
X-Google-Thread: fc2a5,e076391528d5094f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n59g2000hsh.googlegroups.com!not-for-mail
From: mrhaney <w4pqw@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on tuning caps
Date: 22 Apr 2007 08:30:03 -0700
Organization: http://groups.google.com
Lines: 19
Message-ID: <1177255803.072162.24980@n59g2000hsh.googlegroups.com>
References: <132lm99nlrhgof7@corp.supernews.com>
NNTP-Posting-Host: 68.109.15.152
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1177255803 15065 127.0.0.1 (22 Apr 2007 15:30:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 22 Apr 2007 15:30:03 +0000 (UTC)
In-Reply-To: <132lm99nlrhgof7@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; FunWebProducts),gzip(gfe),gzip(gfe)
```

```
Complaints-To: groups-abuse@google.com
Injection-Info: n59g2000hsh.googlegroups.com; posting-host=68.109.15.152;
   posting-account=1DJ5AwwAAAARxlmaHomBOSyfP8FvFcub
Xref: g2news1.google.com rec.radio.amateur.homebrew:13093

On Apr 21, 10:40 pm, "Dave" <db5...@hotmail.com> wrote:
> Hey all,
>
> Would an air-gap tuning capacitor intended for transmitting hook up any
> differently from an air-gap tuning capacitor intended for receiving?  I
> built a project following the schematic for a commercial product, but the
> (intended for transmitting) capacitor doesn't like being hooked up with the
> stator grounded.  Can't figure out how to make it work the way the schematic
> is drawn, so I ungrounded the stator and take the input for the amplifier
> from there instead of the rotor.  And doing this, it works fine.  Anyone
> have any input?  I'm all ears...
>
> Thanks,
>
> Dave

Most air variables are rotor grounded,,,stator floating ...Frame
grounded same as rotor..  HS



From 6878109288255608269
X-Google-Thread: fc2a5,e076391528d5094f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe21.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <132lm99nlrhgof7@corp.supernews.com>
<abLWh.7113$B25.3088@news01.roc.ny>
Subject: Re: ? on tuning caps
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <bkLWh.102054$s8.78455@newsfe21.lga>
Date: Sun, 22 Apr 2007 11:38:42 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe21.lga 1177256327 68.0.230.122 (Sun, 22 Apr 2007 08:38:47 MST)
NNTP-Posting-Date: Sun, 22 Apr 2007 08:38:47 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13094
```

The stator assembly is usually insulated using a ceramic
like insulation, or phenolic. It is normally the "hot"
side of the capacitor. The rotor assembly and shaft are
usually part of the frame, and is grounded when mounted
to a metal chassis.

Pete

```
From 2599559083971440822
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Mike Clayton <news2006d@spamgourmet.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Sun, 22 Apr 2007 17:47:40 +0100
Organization: None
Lines: 16
Message-ID: <NjKS0xPsG5KGFwh6@adsl.ntlworld.com>
References: <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
 <1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
 <l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org>
 <4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
 <nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net> <f07a0m$eob$1@aioe.org>
 <CjNVh.1648$mk4.948@newsfe4-win.ntli.net>
 <4627b084$0$29219$dbd49001@news.wanadoo.nl>
 <rjcf23liderou43uobothkatp1qruskqe1@4ax.com>
 <4ZOdnWnsCZsEIrrbnZ2dnUVZ_iydnZ2d@comcast.com>
 <evqg231dalnsv9r8mf48ovgkft53b8i2ak@4ax.com>
Reply-To: Mike Clayton <news2006d.20.mikelclayton@spamgourmet.com>
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: individual.net x5FQWYCiD+PmtbZhDBpG3ADKS/NSjUKLCYtBoZKv/fJ9HYnvkf
X-Orig-Path: spamgourmet.com!news2006d
User-Agent: Turnpike/6.06-U (<PlhIcjGDgrRwxUMPpO4cUqradS>)
Xref: g2news1.google.com uk.radio.amateur:110498 rec.radio.amateur.homebrew:13095
```

In message <evqg231dalnsv9r8mf48ovgkft53b8i2ak@4ax.com>, Spike
<Aero.Spike@S&T.invalid> writes

```
>
>NoMoreSpam wrote:
>
>>Watching these Brits make asses of themselves makes me proud to be an
>>American!
>
>Remind me again how democracy is progressing in Iraq.
```

```
Yes, and how America runs a democratic election for president    :-)
--
Mike Clayton
My prayer to God is a very short one: "O Lord, make my enemies ridiculous." God
has granted it.  Voltaire (1694-1778)



From 8824699412545258960
X-Google-Thread: fc2a5,218db34d7af6004b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!solaris.cc.vt.edu!
news.vt.edu!news.netins.net!not-for-mail
From: Tehrasha Darkon <darkon@netins.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need help identifing IC.
Date: Sun, 22 Apr 2007 19:03:52 +0000 (UTC)
Organization: netINS InterNetNews site
Lines: 41
Message-ID: <f0gbio$j3j$1@news.netins.net>
References: <evuigs$5qg$1@news.netins.net>
     <132k4pijr97g472@corp.supernews.com> <132l82t9gad7u69@corp.supernews.com>
NNTP-Posting-Host: desm-34-204.dsl.netins.net
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
X-Trace: news.netins.net 1177268632 19571 167.142.34.204 (22 Apr 2007 19:03:52
GMT)
X-Complaints-To: abuse@netins.net
NNTP-Posting-Date: Sun, 22 Apr 2007 19:03:52 +0000 (UTC)
User-Agent: Pan/0.127 (Eckythump)
Xref: g2news1.google.com rec.radio.amateur.homebrew:13096

On Sat, 21 Apr 2007 18:37:23 -0500, msg wrote:

> msg wrote:
>> Tehrasha Darkon wrote:
>>
>>> 6 pin DIP
>>>
>>> Only markings are...
>>>
>>> 65-01
>>> 309F
>>> KOREA
>>
>>
>>
> My 1996 edition of the ECG Replacement Catalog lists the ECG3040
> Optoisolator as a replacement for '65-01':
>
```

```
> Output: NPN Transistor, Viso=7500V, Pt(mw)=250 Ic/If=20%, If(ma)=80,
> Vr=3V, BVcbo=70V, BVceo=30V, Ic(ma)=3.5 Ftyp=300KHz
>
> Basing Diagram (top view)
>
>      ---------
>    A| 1     6 | Base    A = LED anode
>     |         |
>    C| 2     5 | Coll.   C = LED cathode
>     |         |
>     | 3     4 | Emit.
>      ---------
>
> Regards,
>
> Michael
```

Thankyou so much!
Measurements with my ohm meter seem to agree with this.
Now if I could only remember what I bought them for...
Must have been at least 15yrs ago.

--Teh

From 7234863907336543007
X-Google-Thread: fc2a5,e076391528d5094f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!y80g2000hsf.googlegroups.com!not-for-mail
From: N2EY@AOL.COM
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on tuning caps
Date: 22 Apr 2007 12:44:13 -0700
Organization: http://groups.google.com
Lines: 41
Message-ID: <1177271053.443174.138250@y80g2000hsf.googlegroups.com>
References: <132lm99nlrhgof7@corp.supernews.com>
NNTP-Posting-Host: 64.12.116.144
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1177271053 21764 127.0.0.1 (22 Apr 2007 19:44:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 22 Apr 2007 19:44:13 +0000 (UTC)
In-Reply-To: <132lm99nlrhgof7@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows 98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 Turboweb [mtc-td102 8.4.1], HTTP/1.1 cache-mtc-ac15.proxy.aol.com[400C7490] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com

Injection-Info: y80g2000hsf.googlegroups.com; posting-host=64.12.116.144;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news1.google.com rec.radio.amateur.homebrew:13097

On Apr 21, 11:40=EF=BF=BDpm, "Dave" <db5...@hotmail.com> wrote:

> Would an air-gap tuning capacitor intended for transmitting hook up any
> differently from an air-gap tuning capacitor intended for receiving?

No.

>=A0I
> built a project following the schematic for a commercial product, but the
> (intended for transmitting) capacitor doesn't like being hooked up with t=
he
> stator grounded.

What is the circuit, and why would you want to ground the stator
instead of the rotor?

>=A0Can't figure out how to make it work the way the schematic
> is drawn, so I ungrounded the stator and take the input for the amplifier
> from there instead of the rotor.

I'm not sure what you mean.

Most variable capacitors, transmitting as well as receiving, are
designed so the rotor is connected to the frame of the capacitor.

If one side of the capacitor is to be grounded, it is almost always
the rotor, because that means the capacitor can be mounted directly to
the chassis and the rotor shaft doesn't need an insulated coupling.

If neither side of the capacitor is to be grounded, the rotor and
frame must be insulated from ground. That means the capacitor can't be
mounted directly to the chassis and the rotor shaft needs an insulated
coupling.

>=A0And doing this, it works fine. =A0Anyone
> have any input? =A0I'm all ears...

Need more info on the application and the circuit.

73 de Jim, N2EY

From -5837162176565067861
X-Google-Thread: 10c2ee,3d0e9105a33633dc
X-Google-Thread: fc2a5,3d0e9105a33633dc
X-Google-Attributes: gid10c2ee,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!uio.no!hist.no!not-for-

```
mail
From: Stein-Olav Lund <stein.o.lund@iet.hist.no>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: Re: 3SK73GR  ??
Date: Mon, 23 Apr 2007 12:33:48 +0200
Organization: HiST
Lines: 15
Message-ID: <462C8B8C.2000400@iet.hist.no>
References: <SkOVh.7308$5e2.2913@newssvr11.news.prodigy.net>
<4627c74a$0$69886$e4fe514c@news.xs4all.nl>
NNTP-Posting-Host: f51022.edt.aft.hist.no
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news01.tp.hist.no 1177324429 79832 158.38.51.22 (23 Apr 2007 10:33:49
GMT)
X-Complaints-To: news-abuse@hist.no
NNTP-Posting-Date: Mon, 23 Apr 2007 10:33:49 +0000 (UTC)
To:  maarten@panic.xx.tudelft.nl
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
In-Reply-To: <4627c74a$0$69886$e4fe514c@news.xs4all.nl>
Xref: g2news1.google.com rec.antiques.radio+phono:71429
rec.radio.amateur.homebrew:13098

For FETs it means the Idss value,
Y (yellow) = 3-7mA,
GR (green) = 6-14mA

Stein

maarten@panic.xx.tudelft.nl wrote:
> In rec.antiques.radio+phono Henry Kolesnik <kolesnik@nojunksbcglobal.net> wrote:
>
>>What does the GR after the part number signify?
>
>
> I don't know for FETs, but on normal Japanese transistors it signifies the
> hFe group (amplification factor).
>



From 7176380513664558417
X-Google-Thread: 10c2ee,3d0e9105a33633dc
X-Google-Thread: fc2a5,3d0e9105a33633dc
X-Google-Attributes: gid10c2ee,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder3.cambrium.nl!feed.tweaknews.nl!
newsfeed.kamp.net!newsfeed.kamp.net!newsfeed.freenet.de!news.tiscali.de!uio.no!
hist.no!not-for-mail
From: Stein-Olav Lund <stein.o.lund@iet.hist.no>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
```

```
Subject: Re: 3SK73GR  ??
Date: Mon, 23 Apr 2007 12:34:04 +0200
Organization: HiST
Lines: 15
Message-ID: <462C8B9C.3030206@iet.hist.no>
References: <SkOVh.7308$5e2.2913@newssvr11.news.prodigy.net>
<4627c74a$0$69886$e4fe514c@news.xs4all.nl>
NNTP-Posting-Host: f51022.edt.aft.hist.no
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news01.tp.hist.no 1177324445 79832 158.38.51.22 (23 Apr 2007 10:34:05
GMT)
X-Complaints-To: news-abuse@hist.no
NNTP-Posting-Date: Mon, 23 Apr 2007 10:34:05 +0000 (UTC)
To:  maarten@panic.xx.tudelft.nl
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
In-Reply-To: <4627c74a$0$69886$e4fe514c@news.xs4all.nl>
Xref: g2news1.google.com rec.antiques.radio+phono:71430
rec.radio.amateur.homebrew:13099

For FETs it means the Idss value,
Y (yellow) = 3-7mA,
GR (green) = 6-14mA

Stein

maarten@panic.xx.tudelft.nl wrote:
> In rec.antiques.radio+phono Henry Kolesnik <kolesnik@nojunksbcglobal.net> wrote:
>
>>What does the GR after the part number signify?
>
>
> I don't know for FETs, but on normal Japanese transistors it signifies the
> hFe group (amplification factor).
>



From 5215469732967665486
X-Google-Thread: 10c2ee,3d0e9105a33633dc
X-Google-Thread: fc2a5,3d0e9105a33633dc
X-Google-Attributes: gid10c2ee,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!213.200.89.82.MISMATCH!
tiscali!newsfeed1.ip.tiscali.net!news.tiscali.de!uio.no!hist.no!not-for-mail
From: Stein-Olav Lund <stein.o.lund@hist.no>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: Re: 3SK73GR  ??
Date: Mon, 23 Apr 2007 12:34:58 +0200
Organization: HiST
Lines: 15
```

```
Message-ID: <462C8BD2.7020103@hist.no>
References: <SkOVh.7308$5e2.2913@newssvr11.news.prodigy.net>
<4627c74a$0$69886$e4fe514c@news.xs4all.nl>
NNTP-Posting-Host: f51022.edt.aft.hist.no
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news01.tp.hist.no 1177324499 79832 158.38.51.22 (23 Apr 2007 10:34:59
GMT)
X-Complaints-To: news-abuse@hist.no
NNTP-Posting-Date: Mon, 23 Apr 2007 10:34:59 +0000 (UTC)
To:  maarten@panic.xx.tudelft.nl
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
In-Reply-To: <4627c74a$0$69886$e4fe514c@news.xs4all.nl>
Xref: g2news1.google.com rec.antiques.radio+phono:71431
rec.radio.amateur.homebrew:13100

For FETs it means the Idss value,
Y (yellow) = 3-7mA,
GR (green) = 6-14mA

Stein

maarten@panic.xx.tudelft.nl wrote:
> In rec.antiques.radio+phono Henry Kolesnik <kolesnik@nojunksbcglobal.net> wrote:
>
>>What does the GR after the part number signify?
>
>
> I don't know for FETs, but on normal Japanese transistors it signifies the
> hFe group (amplification factor).
>


From -718232432180434816
X-Google-Thread: 10c2ee,3d0e9105a33633dc
X-Google-Thread: fc2a5,3d0e9105a33633dc
X-Google-Attributes: gid10c2ee,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!uio.no!hist.no!not-for-
mail
From: Stein-Olav Lund <stein.o.lund@iet.hist.no>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: Re: 3SK73GR  ??
Date: Mon, 23 Apr 2007 14:47:08 +0200
Organization: HiST
Lines: 24
Message-ID: <f0i9sd$2g1m$1@news01.tp.hist.no>
References: <SkOVh.7308$5e2.2913@newssvr11.news.prodigy.net>
<4627c74a$0$69886$e4fe514c@news.xs4all.nl> <462C8BD2.7020103@hist.no>
NNTP-Posting-Host: f51022.edt.aft.hist.no
```

Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news01.tp.hist.no 1177332429 81974 158.38.51.22 (23 Apr 2007 12:47:09 GMT)
X-Complaints-To: news-abuse@hist.no
NNTP-Posting-Date: Mon, 23 Apr 2007 12:47:09 +0000 (UTC)
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
In-Reply-To: <462C8BD2.7020103@hist.no>
Xref: g2news1.google.com rec.antiques.radio+phono:71434 rec.radio.amateur.homebrew:13101

To be more exact, for the 2SK73 the Idss values are these given

Stein

Stein-Olav Lund wrote:

> For FETs it means the Idss value,
> Y (yellow) = 3-7mA,
> GR (green) = 6-14mA
>
> Stein
>
> maarten@panic.xx.tudelft.nl wrote:
>
>> In rec.antiques.radio+phono Henry Kolesnik
>> <kolesnik@nojunksbcglobal.net> wrote:
>>
>>> What does the GR after the part number signify?
>>
>>
>>
>> I don't know for FETs, but on normal Japanese transistors it signifies
>> the hFe group (amplification factor).
>>

From -6528510896455278587
X-Google-Thread: fc2a5,e076391528d5094f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!newsfeed1.ip.tiscali.net!tiscali!transit1.news.tiscali.nl!transit.news.xs4all.nl!newsgate.cistron.nl!xs4all!news2.euro.net!border2.nntp.ams.giganews.com!nntp.giganews.com!sn-xt-ams-06!sn-xt-ams-08!sn-post-ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on tuning caps
Date: Mon, 23 Apr 2007 14:44:00 -0500

```
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <132q3471ss97k15@corp.supernews.com>
References: <132lm99nlrhgof7@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 33
Xref: g2news1.google.com rec.radio.amateur.homebrew:13102
```

"Dave" <db5151@hotmail.com> wrote in message
news:132lm99nlrhgof7@corp.supernews.com...

> Hey all,
>
> Would an air-gap tuning capacitor intended for transmitting hook up any differently from an air-gap tuning capacitor intended for receiving? I built a project following the schematic for a commercial product, but the (intended for transmitting) capacitor doesn't like being hooked up with the stator grounded. Can't figure out how to make it work the way the schematic is drawn, so I ungrounded the stator and take the input for the amplifier from there instead of the rotor. And doing this, it works fine. Anyone have any input? I'm all ears...
>
> Thanks,
>
> Dave

Thanks, all, for your input RE: the rotor being normally grounded to frame, etc. This makes sense, as the rotor has threads for a nut to fasten it in place against the chassis/case. Please don't take my silence as not caring/listening-I'm fiddling with it trying to understand what I have in my hands, and how to make it work. *All* of your input is greatly appreciated. Each and every one of you. You have the experience I lack, and I value your feedback.

Trying to put it all into action...

Dave

```
From -5742245183802662350
X-Google-Thread: fc2a5,20f20834d63a0fb6,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
```

news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 24 Apr 2007 01:17:12 -0500
From: "John Doe" <hgorden@adelphia.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: CAPACITORS
Date: Tue, 24 Apr 2007 01:20:47 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <jbednfW6jNl1PbDbnZ2dnUVZ_q6vnZ2d@adelphia.com>
Lines: 20
NNTP-Posting-Host: 76.100.201.181
X-Trace: sv3-U1iSo+2XPZftsX/6TmE3UZCysc6AFEWUpoZP/mxXDdCFCy+
+laDqExhxlJsGBT8bHp42QG008tBDU86!WLovGzzfllyz47j8IeU+/
V8BX3Lw6O1TEM0vM6h4AbUDUCspvVMX4vkINyqpulVhxXm2MW1aa/n1!MwLCn9nXOKmNqnZy33eKajw=
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13103

Quite A number of (Years or Moons ago) depending on how you keep track of time, someone came to one of the hamfests in Gaithersburg, Maryland, in a large box
type of truck, and mounted on top of the truck was a CAPACITOR CANNON of sorts.

I think that I need to clarify a bit - apparently the capacitors did not really explode, but SNAPPED IN DISCHARGE STATE causing a louder than life noise, and could be recharged to do it continuously.

At a push of a button this object sounded like a number of VERY LARGE CHERRY BOMBS going off in succession.

Yes - it was an attention getter.

Does anybody else remember this device and or have a schematic for it?

73's

From 1816543527698919115
X-Google-Thread: fc2a5,20f20834d63a0fb6
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!

news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 24 Apr 2007 08:14:25 -0500
From: "jack" <jdwalton@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <jbednfW6jNl1PbDbnZ2dnUVZ_q6vnZ2d@adelphia.com>
Subject: Re: CAPACITORS
Date: Tue, 24 Apr 2007 09:18:26 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Message-ID: <iPydnTsxZ4ssn7PbnZ2dnUVZ_o-knZ2d@comcast.com>
Lines: 3
NNTP-Posting-Host: 69.249.69.72
X-Trace: sv3-uwoFNl9wEkl310JjOmMKgDMJ7S0QUVWlZE/
KNPoNc1OlZAN1H4ahPXbcsT1GCKH7mXk5RSoT5IxksIL!
17+VP7cWrOqJ+J4DAy47RmDJo2l6nVlsAv4CvWMOKQin8juTgzvdtfp4AUeWCPxLvLsTGnjanNkW!
+n+cwl+Ee1SMQMdZ/hrO6cS2/Rw9
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13104

Did they use the cap as an ignitor/sparker for a carbide cannon?

From 4914625786314575176
X-Google-Thread: fc2a5,20f20834d63a0fb6
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out02b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx01.iad01.newshosting.com!newshosting.com!69.28.186.77.MISMATCH!hwmnpeer03.lga!
hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe22.lga.POSTED!
53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <jbednfW6jNl1PbDbnZ2dnUVZ_q6vnZ2d@adelphia.com>
Subject: Re: CAPACITORS
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <c0qXh.101557$mJ1.11088@newsfe22.lga>
Date: Tue, 24 Apr 2007 12:12:46 -0400

```
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe22.lga 1177431176 68.0.230.122 (Tue, 24 Apr 2007 09:12:56 MST)
NNTP-Posting-Date: Tue, 24 Apr 2007 09:12:56 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13105


"John Doe" <hgorden@adelphia.net> wrote in message
news:jbednfW6jNl1PbDbnZ2dnUVZ_q6vnZ2d@adelphia.com...
> Quite A number of (Years or Moons ago) depending on how you keep track of
> time, someone came to one of the hamfests in Gaithersburg, Maryland, in a
> large box
> type of truck, and mounted on top of the truck was a CAPACITOR CANNON of
> sorts.
>
> I think that I need to clarify a bit - apparently the capacitors did not
> really explode, but SNAPPED IN DISCHARGE STATE causing a louder than life
> noise, and could be recharged to do it continuously.
>
>

Alas, doing so today would get one arrested as a terrorist,
or for making improvised explosive devices. They went
after kids around here for filling old soda bottles with water
and dry ice so they'd pop and explode.




From -7165124241181803613
X-Google-Thread: 112d1e,63c4c266b6bec7e1,start
X-Google-Thread: fc2a5,63c4c266b6bec7e1,start
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
140.99.99.194.MISMATCH!news-in-02.newsfeed.easynews.com!easynews.com!easynews!sn-
xt-sjc-02!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-
mail
From: "RST Engineering \(jw\)" <jim@rstengineering.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Freebie:  PCB Etch Tanks
Date: Tue, 24 Apr 2007 09:42:46 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <132scq4b0bq7p00@news.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Complaints-To: abuse@supernews.com
Lines: 22
```

Xref: g2news1.google.com sci.electronics.design:224389
rec.radio.amateur.homebrew:13106

The electronics department at Sierra College is moving into a new building that eliminates our need for our two sets of PCB etch/developer tanks. One set is "stock" Kepro and the other has been modified with industrial pumps and nozzles for short run production service.

One set is still in service and won't be available until mid-May. The stock set is on the shelf and available right now.

I'd PREFER to give them to another school or ham radio club for "public" use, but it is first come, first served. The etch tank and developer tank are both the same size and about as big as two desktop computers side by side each. 110vac.

Sierra College is in Rocklin, 30 miles east of Sacramento. Pickup only, no shipping.

jweir@sierracollege.edu

Jim

From 2788232605132928285
X-Google-Thread: fc2a5,20f20834d63a0fb6
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Reply-To: "Wim Ton" <wton@bluewin.ch>
From: "Wim Ton" <wton@bluewin.ch>
Newsgroups: rec.radio.amateur.homebrew
References: <jbednfW6jNl1PbDbnZ2dnUVZ_q6vnZ2d@adelphia.com>
<c0qXh.101557$mJ1.11088@newsfe22.lga>
Subject: Re: CAPACITORS
Date: Tue, 24 Apr 2007 23:20:37 +0200
Lines: 34
Organization: thuis
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1437
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1441
NNTP-Posting-Host: 83.77.181.205
X-Original-NNTP-Posting-Host: 83.77.181.205
Message-ID: <462e74a0$1_4@news.bluewin.ch>
X-Trace: news.bluewin.ch 1177449632 83.77.181.205 (24 Apr 2007 23:20:32 +0200)
Complaints-To: abuse@bluewin.ch
X-Original-NNTP-Posting-Host: 127.0.0.1
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wn12feed!worldnet.att.net!164.128.36.58!news.ip-plus.net!
newsfeed.ip-plus.net!news.bluewin.ch!not-for-mail

Xref: g2news1.google.com rec.radio.amateur.homebrew:13107

"Uncle Peter" <radioconnection@cox.net> wrote in message
news:c0qXh.101557$mJ1.11088@newsfe22.lga...
>
> "John Doe" <hgorden@adelphia.net> wrote in message
> news:jbednfW6jNl1PbDbnZ2dnUVZ_q6vnZ2d@adelphia.com...
> > Quite A number of (Years or Moons ago) depending on how you keep track of
> > time, someone came to one of the hamfests in Gaithersburg, Maryland, in a
> > large box
> > type of truck, and mounted on top of the truck was a CAPACITOR CANNON of
> > sorts.
> >
> > I think that I need to clarify a bit - apparently the capacitors did not
> > really explode, but SNAPPED IN DISCHARGE STATE causing a louder than life
> > noise, and could be recharged to do it continuously.
> >
> >
>
> Alas, doing so today would get one arrested as a terrorist,
> or for making improvised explosive devices. They went
> after kids around here for filling old soda bottles with water
> and dry ice so they'd pop and explode.
>
>
A bit in the same direction; the Crofty bomb. A bottle with a solution of
caustic soda and aluminium foil. (Crofty is a local brand of toilet cleaner,
consisting of mostly caustic soda pellets) Easier to obtain than dry ice ;-)

Wim

From -4763354962224987754
X-Google-Thread: 112d1e,63c4c266b6bec7e1
X-Google-Thread: fc2a5,63c4c266b6bec7e1
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: "john jardine" <john@jjdesigns.fsnet.co.uk>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
References: <132scq4b0bq7p00@news.supernews.com>
Subject: Re: Freebie: PCB Etch Tanks
Date: Wed, 25 Apr 2007 00:04:23 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Lines: 38
Message-ID: <462e8092$0$28429$88260bb3@free.teranews.com>
NNTP-Posting-Date: 24 Apr 2007 22:11:30 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com sci.electronics.design:224486
rec.radio.amateur.homebrew:13108

"RST Engineering (jw)" <jim@rstengineering.com> wrote in message
news:132scq4b0bq7p00@news.supernews.com...
> The electronics department at Sierra College is moving into a new building
> that eliminates our need for our two sets of PCB etch/developer tanks.
One
> set is "stock" Kepro and the other has been modified with industrial pumps
> and nozzles for short run production service.
>
> One set is still in service and won't be available until mid-May. The
stock
> set is on the shelf and available right now.
>
> I'd PREFER to give them to another school or ham radio club for "public"
> use, but it is first come, first served. The etch tank and developer tank
> are both the same size and about as big as two desktop computers side by
> side each. 110vac.
>
> Sierra College is in Rocklin, 30 miles east of Sacramento. Pickup only,
no
> shipping.
>
> jweir@sierracollege.edu
>
>
> Jim
>
>

I did a "get directions" on Google Maps. "Leeds UK" to "Rocklin California".
Apart from a side detour via France, direction number '38' looked a bit of a
killer, so I won't bother ;)

--
Posted via a free Usenet account from http://www.teranews.com

From -1399508992415722151

X-Google-Thread: fc2a5,5b5d8d70d14e3836,start
X-Google-Thread: fc8b1,5b5d8d70d14e3836,start
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!feeder3.cambrium.nl!feed.tweaknews.nl!
newsfeed.kamp.net!newsfeed.kamp.net!newsfeed.freenet.de!85.12.40.130.MISMATCH!
xlned.com!feeder1.xlned.com!tudelft.nl!txtfeed2.tudelft.nl!multikabel.net!
feed20.multikabel.net!sn-xt-ams-06!sn-xt-ams-04!sn-post-ams-02!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Viking Adventurer
Date: Tue, 24 Apr 2007 18:27:02 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <132t82thgeesid3@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 19
Xref: g2news1.google.com rec.radio.amateur.homebrew:13109
rec.radio.amateur.boatanchors:11398

My next project is an RF exciter for my 8000 rig.

For sentimental reasons, an 807 must be part of it.

In browsing around, I find the Viking Adventurer to be just about what I
want to do. I found the schematic on BAMA but they do not seem to
have the parts list which would save a lot of trouble.

Does anyone have this or know where I can get it?

Thanks,

JACK K9ACT   http://schmidling.com/radio.htm

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

From 7885400315067774968
X-Google-Thread: fc2a5,20f20834d63a0fb6
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail

NNTP-Posting-Date: Tue, 24 Apr 2007 22:00:21 -0500
From: "John Doe" <hgorden@adelphia.net>
Newsgroups: rec.radio.amateur.homebrew
References: <jbednfW6jNl1PbDbnZ2dnUVZ_q6vnZ2d@adelphia.com>
<c0qXh.101557$mJ1.11088@newsfe22.lga> <462e74a0$1_4@news.bluewin.ch>
Subject: Re: CAPACITORS
Date: Tue, 24 Apr 2007 22:03:05 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <3_idnaXd6NTYWbPbnZ2dnUVZ_tqnnZ2d@adelphia.com>
Lines: 51
NNTP-Posting-Host: 76.100.201.181
X-Trace: sv3-Gj5U68vpZYYHfwzz7EioTL+O+Kf/t+Y4KIj1V4UcJAp/
BqRk1Ym2KxaPnMhllLbAwCJem0diVvUp9Qm!
jXgtvgsY1ADH8TBdHLSH9KJEwp8iintt8ZalsKIm3iNMlVApdTue1jr4u8bCkJy1wp1yvF0Nlr1A!
oVkDa9GAQELOJF0+eX5Nxas=
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13110

Well - I would like to thank everyone here and off line - who submitted a story about getting rid of power line noise, transformers & other hardware falling from top of poles, bottles exploding, etc, but nobody has answered my question yet!

What I am looking for is the object described, to make NOISE. Not interference type of noise on a receiver, especially during contests and the like, but as an attention getter!

Also, this unit would have NOTHING to do with cannons or other types of units set to actually explode say "gunpowder or the likes" that would cause a harmful explosion to damage any person or property!

I have a specific need for an item as of such!! Originally I said that it might sound like a bunch of Cherry Bombs going off, maybe I should rearrange the wording and say it sounds more like the noise coming from the muzzle of a machinegun!

73's

"Wim Ton" <wton@bluewin.ch> wrote in message
news:462e74a0$1_4@news.bluewin.ch...
>
> "Uncle Peter" <radioconnection@cox.net> wrote in message
> news:c0qXh.101557$mJ1.11088@newsfe22.lga...

>>
>> "John Doe" <hgorden@adelphia.net> wrote in message
>> news:jbednfW6jNl1PbDbnZ2dnUVZ_q6vnZ2d@adelphia.com...
Quite A number of (Years or Moons ago) depending on how you keep track of
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large box type of truck, and mounted on top of the truck was a CAPACITOR
CANNON of sorts.

I think that I need to clarify a bit - apparently the capacitors did not
really explode, but SNAPPED IN DISCHARGE STATE causing a louder than life
noise, and could be recharged to do it continuously.

>>>Alas, doing so today would get one arrested as a terrorist, or for making
>>>improvised explosive devices. They went after kids around here for
>>>filling old soda bottles with water
and dry ice so they'd pop and explode.

A bit in the same direction; the Crofty bomb. A bottle with a solution of
caustic soda and aluminium foil. (Crofty is a local brand of toilet cleaner,
consisting of mostly caustic soda pellets) Easier to obtain than dry ice ;-)
>
> Wim

From -6668239630788100752
X-Google-Thread: fc2a5,5b5d8d70d14e3836
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out01b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe03.lga.POSTED!53ab2750!not-for-mail
From: Bruce W. Ellis <ellis@means.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Viking Adventurer
Reply-To: ellis*nospam*@means.net
Message-ID: <heit23tatm2f6f8u1cplc2chc4nbnjnfhe@4ax.com>
References: <132t82thgeesid3@corp.supernews.com>
X-Newsreader: Forte Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 28
X-Trace:
pgpdkimbbbabbbpelhbgfpgcdpepfmkgjgapgkfmhoieeegegaklhmjihbjfnlhdnbpfbgpcpoebngkmoo
kjmbpodnepoimlmoinkdmnhihbjjaeaafobdgopgcambehhgindeflifgphkdl
NNTP-Posting-Date: Tue, 24 Apr 2007 20:34:31 MST
Date: Tue, 24 Apr 2007 22:34:27 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:13111

On Tue, 24 Apr 2007 18:27:02 -0600, Jack Schmidling <arf@mc.net>
wrote:

>My next project is an RF exciter for my 8000 rig.
>
>For sentimental reasons, an 807 must be part of it.
>
>In browsing around, I find the Viking Adventurer to be just about what I
> want to do. I found the schematic on BAMA but they do not seem to
>have the parts list which would save a lot of trouble.
>
>Does anyone have this or know where I can get it?
>
>Thanks,
>
>JACK K9ACT http://schmidling.com/radio.htm

I built one of those for my first station (in North Dakota) in 1955.
I rewired it to use a 6146 about a half year later. I wish I had
kept it. but I have no recollection of what happened to it. I got a
lot of use out of it- added a Heathkit VFO , a homemade AM modulator
(constucte on an over turned aluminum cake pan) and a amplifier with
four 837s in grounded grids. Damn near electrocuted myself on that
amp. I don't have a manual any more - sorry. Just a moment of
nostalgia...

Good luck.

Bruce W0BF (ex KN0CNC, K0CNC)

From 27816832376347573
X-Google-Thread: fc2a5,ada4676e9d2cd9e,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n15g2000prd.googlegroups.com!not-for-mail
From: gggoattt@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: How to set tuning on Sony car stereo from Japanese to US tuning...please help
Date: 24 Apr 2007 23:09:14 -0700
Organization: http://groups.google.com
Lines: 50
Message-ID: <1177481354.733638.44130@n15g2000prd.googlegroups.com>
NNTP-Posting-Host: 205.188.116.65
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1177481361 7828 127.0.0.1 (25 Apr 2007 06:09:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 25 Apr 2007 06:09:21 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 5.1; .NET CLR 1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0),gzip(gfe),gzip(gfe)

```
X-HTTP-Via: HTTP/1.1 (Velocity/1.1.1 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
dtc-te10.proxy.aol.com[CDBC7232] (Prism/1.2.0), HTTP/1.1 cache-dtc-
ab01.proxy.aol.com[CDBC7441] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: n15g2000prd.googlegroups.com; posting-host=205.188.116.65;
   posting-account=wHFvHg0AAAAuRT602EtGewgppN1kPfg4
Xref: g2news1.google.com rec.radio.amateur.homebrew:13112
```

I need to set the tuning on my Sony car stereo from Japanese to US tuning; service manual?

Hi there...

I was wondering if someone has any idea if ANY of the Sony "WX" series of double-din car stereos (japanese or usa models) can be "hacked" so that their tuners can be changed from japanese fm tuning to us/uk or world band tuning and vice-versa???

I recently purchased a Sony WX-C88REC double-din cd/md recorder from eBay. This is a japanese market deck and is factory set for japanese fm tuning. However, the design and physical layout of this deck is very similar to other US models (such as the WX-4500X and the WX-C5000, as well as the WX-C55 which looks nearly identical). I'm nearly convinced that there MUST be some way to hack the japanese models so that their tuners can be "switched" to us or world tuning. I find it difficult to believe that Sony would design two distinct different tuner hardware modules for japanese and american versions. Problem is, I have no clue HOW to "hack" this feature. I don't have a service manual for ANY "WX" series stereos, but I'm thinking that it may possibly be an option in a service manual for ANY of the "WX" decks. Again, I find it difficult to believe that this isn't "set-able" some sort of way.

Does anyone out there have an idea? Does anyone out there have ANY service manual for ANY "WX" series Sony stereo? Or, for that matter, does anyone have a service manual for ANY Sony car stereo that addresses in ANY way setting the tuner for different bands?

I realize there are adapters available to transpose the FM frequencies. I've used them before, always with poor results (stations usually overlap and are weak). I mainly record off the radio with my MDX-C800REC's in my other cars, but always thought it would be cool to be able to dub cd's quickly in-dash digitally without having to mess with a cd changer. But, radio recording is my primary concern...and the adapters don't provide the quality I want for recording.

PLEASE help ANYBODY if you can steer me in the right direction or help in ANY way. If anyone has ANY Sony service manuals for ANY stereo, please let me know...perhaps if setting the tuner IS an option, maybe it is a standard procedure to set ANY Sony stereo's tuning in a similar fashion.

Thank you VERY much!
Jeff

From -7356512301465022OO
X-Google-Thread: fc2a5,5b5d8d70d14e3836
X-Google-Thread: fc8b1,5b5d8d70d14e3836
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 25 Apr 2007 05:38:28 -0500
From: "Edward Feustel" <efeustel@hughes.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
References: <132t82thgeesid3@corp.supernews.com>
Subject: Re: Viking Adventurer
Date: Wed, 25 Apr 2007 06:38:01 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <ar6dndlDgIY4srLbnZ2dnUVZ_oWdnZ2d@giganews.com>
Lines: 23
X-Trace: sv3-jI0DaQqymRBYGhD5B+lBXm+QtF24wvikK/3EpDJK2+AbYQaBziNophTKb8wQbEv+UPlMTmc2Vs+qeg6!AA8bIhaFJZ05ohMyyYc9JSLAbY0ILWqffuX5528v7cLJ1p9VMx7bsWnHNuUWOGoCzvhVaTWEUA==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13113 rec.radio.amateur.boatanchors:11403

"Jack Schmidling" <arf@mc.net> wrote in message
news:132t82thgeesid3@corp.supernews.com...
> My next project is an RF exciter for my 8000 rig.
>
> For sentimental reasons, an 807 must be part of it.
>
> In browsing around, I find the Viking Adventurer to be just about what I
> want to do. I found the schematic on BAMA but they do not seem to have
> the parts list which would save a lot of trouble.
>
> Does anyone have this or know where I can get it?
>

```
> Thanks,
>
> JACK K9ACT    http://schmidling.com/radio.htm

Jack,
How about getting the Viking Adventurer Manual?
You will still need a VFO.
Ed, N5EI




From -142197293396438650
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!news.newsland.it!aioe.org!
not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Wed, 18 Apr 2007 18:53:26 +0100
Organization: Aioe.org NNTP Server
Lines: 10
Message-ID: <f05lul$21j$1@aioe.org>
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
<f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org>
<iCsVh.3693$nh7.873@newsfe7-win.ntli.net>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:109780 rec.radio.amateur.homebrew:13012

You give yourself away.

"Brian Reay" <see@website.invalid> wrote in message
news:iCsVh.3693$nh7.873@newsfe7-win.ntli.net...
>.....they will think your intentions are less than  genuine.
> ..... unless they see some progress, they will think your intention isn't
> genuine
>.....otherwise some might think your intentions are less than genuine.




From 6186480963403737340
```

X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!feeder3.cambrium.nl!feeder1.cambrium.nl!
feed.tweaknews.nl!news2.euro.net!62.253.162.218.MISMATCH!news-in.ntli.net!
newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe6-win.ntli.net.POSTED!53ab2750!not-for-mail
From: "Brian Reay" <see@website.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
<f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org>
<iCsVh.3693$nh7.873@newsfe7-win.ntli.net> <f05lul$21j$1@aioe.org>
Subject: Re: Putting the Ham back into Ham Radio?
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <L5tVh.6835$7D4.3651@newsfe6-win.ntli.net>
Date: Wed, 18 Apr 2007 18:05:31 GMT
NNTP-Posting-Host: 82.12.246.129
X-Complaints-To: http://www.virgin.net/netreport
X-Trace: newsfe6-win.ntli.net 1176919531 82.12.246.129 (Wed, 18 Apr 2007 19:05:31
BST)
NNTP-Posting-Date: Wed, 18 Apr 2007 19:05:31 BST
Organization: Virgin Net Usenet Service
Xref: g2news1.google.com uk.radio.amateur:109782 rec.radio.amateur.homebrew:13013

"G.A.Evans G4SDW" <me@privacy.net> wrote in message
news:f05lul$21j$1@aioe.org...
> You give yourself away.

How is that Gareth? Come on, a few published designs of your "biscuits" and your idea will be up and running. However, if you don't progress the idea it will wither and die. That would be a waste of a good idea.

I've offered to assist, if you decline that offer and succeed anyway all the better for you. However, if you don't make this work, then it will reflect on you and you only.

Get baking ;-)

--
73
Brian, G8OSN
www.g8osn.org.uk

Now your amateur licence is free, why not send at least �15 per year to support the

Radio Communications Foundation or STELAR?

From -3861054124416821102
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-in.ntli.net!
newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe3-win.ntli.net.POSTED!53ab2750!not-for-mail
From: "Brian Reay" <see@website.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
<f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org>
<4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
Subject: Re: Putting the Ham back into Ham Radio?
Lines: 31
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net>
Date: Wed, 18 Apr 2007 18:34:59 GMT
NNTP-Posting-Host: 82.12.246.129
X-Complaints-To: http://www.virgin.net/netreport
X-Trace: newsfe3-win.ntli.net 1176921299 82.12.246.129 (Wed, 18 Apr 2007 19:34:59
BST)
NNTP-Posting-Date: Wed, 18 Apr 2007 19:34:59 BST
Organization: Virgin Net Usenet Service
Xref: g2news1.google.com uk.radio.amateur:109784 rec.radio.amateur.homebrew:13014

"Somebody" <Somebody@Null.org> wrote in message
news:4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net...
> 2. In your original post, you said "Might we all act together to produce
> a series of "biscuits" that could then be assembled Lego-like fashion to
> produce any rig or test equipment?". This appears to be an admirable
> suggestion to help newcomers to electronics and amateur radio, not a call
> to arms against a non-existent organisation called the RSCB.

I quite agree, Gareth's idea is an excellent one. I've heard something
similar before (not my idea, someone else's) and it didn't take off. Partly
as there were other constraints which don't apply here but partly as the
originator didn't follow through.

>
> 3. You seem to come up with many questions in this newsgroup but sadly
> never seem to follow on with helpful solutions. It would be extremely

> helpful if you did, so please do as I would be very interested.

I'd also be interested. However, I seems you and I are more keen to progress
the idea than its creator.

--
73
Brian, G8OSN
www.g8osn.org.uk

Now your amateur licence is free, why not send at least �15 per year to
support the
Radio Communications Foundation or STELAR?

From 8576269143225584220
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Spike <Aero.Spike@S&T.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Wed, 18 Apr 2007 21:39:10 +0100
Lines: 33
Message-ID: <ca0d23t4gd58te4f3ldjbg6pq02ntotqoa@4ax.com>
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
<f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: individual.net y+eKU9+0Kc9eASbWSUKn0QTleBMRpt8wz6rfJS1uPzA/zR8+f5
X-Newsreader: Forte Agent 1.93/32.576 English (American)
Xref: g2news1.google.com uk.radio.amateur:109812 rec.radio.amateur.homebrew:13015

Brian Reay wrote:

>"G.A.Evans G4SDW" <me@privacy.net> wrote in message
>news:f04fdb$h2n$1@aioe.org...
> >
>> What you have quoted below is most certainly _NOT_
>> a support for the proposal. There is no suggestion of what
>> the biscuits might be; no suggestion of what the standard interfaces
>> between biscuits might be; no suggestion of what the mechanical
>> arrangements migth be; no proposals of component sets.
>

>Well Gareth, the idea was yours and I was rather hoping you'd supply, at
>some point, those details.
>
>> In fact, there has been _NO_ support whatsoever for the
>> proposal that _WE_ all act together to save Ham Radio
>> from the predations of the RSCB and other destructive influences.
>>
>> What has there been?
>>
>> Why, merely an examination of means whereby the proposer
>> himself might gain some attention and reflected glory from
>> the actions of others and to set in place,

I said not very long ago that someone was being set up to take the rap
for the failure of the project, but I had no inkling that it was going
to be over the issue of free web space, and so soon.

It's all your fault, Brian.....according to one person, anyway.
--
from
Aero Spike

```
From 8166879911281018202
X-Google-Thread: fc2a5,c6cf1a6ed52be993
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe16.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <6UnVh.15331$M.341@news-server.bigpond.net.au>
Subject: Re: This idea of testing a trap
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <dlwVh.535959$Ju2.113818@newsfe16.lga>
Date: Wed, 18 Apr 2007 17:45:54 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe16.lga 1176932809 68.0.230.122 (Wed, 18 Apr 2007 14:46:49 MST)
NNTP-Posting-Date: Wed, 18 Apr 2007 14:46:49 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:13016
```

Do you have an antenna analyzer?

Or, wouldn't it be easier just to use a dip meter to
see where the trap is tuned?

Peter

"P.Gregory" <hoonz@bigpond.com> wrote in message
news:6UnVh.15331$M.341@news-server.bigpond.net.au...
> Any others got a thought on this , i have no test gear at all and before
> i start i was wondering wether it was worth starting at all , but if i
> make a LC parallel resonant trap for say the 40m band , if i soldered a
> small 50hm dummy load on one side and then fed the trap on the other
> through a vswr meter with very small power could the the trap point be
> measured or would the loading of the dummy load pull the resonance off as
> i aware there be thousand ohms or so imp there , to save a waste of time
> no suggestions to make a coaxial trap i not interested ...cheers paul...
>

From -5753555523097824432
X-Google-Thread: fc2a5,288b3a2c51615653,start
X-Google-Thread: fc8b1,288b3a2c51615653,start
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n59g2000hsh.googlegroups.com!not-for-mail
From: Jim <k0jkj@arrl.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Homebrew 11 tube CB receiver info wanted
Date: 18 Apr 2007 20:46:25 -0700
Organization: http://groups.google.com
Lines: 35
Message-ID: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
NNTP-Posting-Host: 67.165.207.26
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176954385 26211 127.0.0.1 (19 Apr 2007 03:46:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 19 Apr 2007 03:46:25 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.0.7) Gecko/20060913 Fedora/1.5.0.7-1.fc5 Firefox/1.5.0.7 pango-text,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n59g2000hsh.googlegroups.com; posting-host=67.165.207.26;
   posting-account=gJ7C6wwAAACrkOE8NW4oWqnm6pQe7_4_
Xref: g2news1.google.com rec.radio.amateur.homebrew:13017 rec.radio.amateur.boatanchors:11330

I recently won a HOMEBREW 23 channel CB receiver. Yes I know it's not a real boatanchor but given that it has 11 tubes plus several diodes , I thought I'd ask about it here. It looks very well made.

I was hoping that some one would recognize it by tube line up. I just looked at it and haven't started drawing the schematic yet. It has the following tubes, 6EH7 (the RF amp) , 12AT7, 12AU7, 6BN8, 6HR6, 6BA6, 6BE6, 6GX6, 12AX7, 6AQ5, and an OA2. It has 6 RF and IF transformers.

The antenna is connected directly to a transformer with the RF amp feed by a cap off the secondary. The first oscillator(?) Uses a 29305 Kc crystal. It has a "S meter" and what I suspect is a meter adj. pot on the back. There is a octal socket on the back labeled transmitter that has two lines jumped as well as a voltage divider with a large electrolytic to ground in the middle of the divider.

The tuning cap is three section with one section switched by a control on the front panel. The tuning cap is driven by a very nicely home made dial cord mechanism with a heavy flywheel. So far I have figured out the RF and audio gain controls. The other two front panels pots function are a question as well as the functions of four multi section toggle switches. With the filter caps being bad. I have not powered it up for more than two minutes.

Does anyone remember a home brew rig with these features HAM or CB? I would like to find a schematic if possible. I looked at the HBR site and it doesn't seem to match anything there. But given the limited 23 channel coverage plus channels A-D it looks like it's from the late 1960's or real early 1970's .

Thanks

Jim

From -7277206168381722640
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Thread: fc8b1,288b3a2c51615653
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 18 Apr 2007 23:51:19 -0500
Date: Thu, 19 Apr 2007 00:51:17 -0400
From: William Warren <""w_warren_nonoise\"@comcast(William Warren).net">
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Homebrew 11 tube CB receiver info wanted
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
In-Reply-To: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <fqWdnVF14K3aaLvbnZ2dnUVZ_qKqnZ2d@comcast.com>
Lines: 58
NNTP-Posting-Host: 66.31.246.25

X-Trace: sv3-LhcN4PWpu5W5BnDacnTA9uQvgSpRyijhffoj4erVy0rCDyHzWLETlwY7hWxLNXPRB3GRoQqg6hRhI8B!zx8MLLDgayQ15hz4WVyB7cEQjvIOFUcrWERkze6MmTosXtyJZHxroGVtX2L5wNsfohNXRXW1T332!WCnzdHW5dxDP2YML/6jtXAH659IU
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13018 rec.radio.amateur.boatanchors:11331

Jim wrote:
>   I recently won a HOMEBREW 23 channel CB receiver. Yes I know it's
> not a real boatanchor but given that it has 11 tubes plus several
> diodes , I thought I'd ask about it here. It looks very well made.
>
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> transformers.
>
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> electrolytic to ground in the middle of the divider.
>
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> panels pots function are a question as well as the functions of four
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>
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> and it doesn't seem to match anything there. But given the limited 23
> channel coverage plus channels A-D it looks like it's from the late
> 1960's or real early 1970's .
>
> Thanks
>
> Jim
>

Jim,

I'm very surprised to hear that someone would homebrew a CB rig: I'd

guess it's a commercial unit without the front plate unless the
workmanship is definitely "homebrew".

The mixer crystal is a puzzle: it implies an IF in the ~3.3MHz range,
which I've never seen before. OTOH, if it was made for 10 Meter ham use,
a 29.305 MHz crystal and a 455 KHz IF would work out to either
29.760 or 28.850 MHz, and only the lower frequency is in the 10 meter
band. It might have been a custom-made unit for CAP or other use on
29.76, but I don't have any experience with those.

I'm going to guess that you have a CB set that was modified for either
10 meter ham use or for some quasi-government use on 29.76.

HTH.

William

(Filter noise from my address for direct replies)

From 3507499096364612552
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!news.newsland.it!aioe.org!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Thu, 19 Apr 2007 09:41:58 +0100
Organization: Aioe.org NNTP Server
Lines: 17
Message-ID: <f07a0m$eob$1@aioe.org>
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
<f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org>
<4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
<nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:109890 rec.radio.amateur.homebrew:13019

As intimated by A.N.Other, your sincerity is
called into question.

I proposed a joint effort through Usenet, and outlined how some of these biscuits might be evolved.

You very quickly turned to uttering personal slights
and have continued relentlessly down your chosen path.

Can a leopard change its spots?

"Brian Reay" <see@website.invalid> wrote in message
news:nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net...
> I'd also be interested. However, I seems you and I are more keen to
> progress the idea than its creator.

From -8020450423378197426
X-Google-Thread: fc2a5,c6cf1a6ed52be993
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Nobody <nobody@frontier.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: This idea of testing a trap
Date: 19 Apr 2007 13:37:38 GMT
Lines: 24
Message-ID: <slrnf2es52.l5d.bit-bucket@shell.config.com>
References: <6UnVh.15331$M.341@news-server.bigpond.net.au>
<dlwVh.535959$Ju2.113818@newsfe16.lga>
X-Trace: individual.net GF3WDql0aCUb0q54cljHwAP28wl9NcVimPhNMw4RTbxkcyPFQL
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:13020

On Wed, 18 Apr 2007 17:45:54 -0400, Uncle Peter wrote:
>
> "P.Gregory" <hoonz@bigpond.com> wrote in message
> news:6UnVh.15331$M.341@news-server.bigpond.net.au...
>> Any others got a thought on this , i have no test gear at all and before
>> i start i was wondering wether it was worth starting at all , but if i
>> make a LC parallel resonant trap for say the 40m band , if i soldered a
>> small 50hm dummy load on one side and then fed the trap on the other
>> through a vswr meter with very small power could the the trap point be
>> measured or would the loading of the dummy load pull the resonance off as
>> i aware there be thousand ohms or so imp there , to save a waste of time
>> no suggestions to make a coaxial trap i not interested ...cheers paul...

> Do you have an antenna analyzer?
>
> Or, wouldn't it be easier just to use a dip meter to
> see where the trap is tuned?
>
> Peter

Reading for Comphrehension is so hard to find on usenet.

Top-Posting corrected.

From -1434844851188299313
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Thread: fc8b1,288b3a2c51615653
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.stanford.edu!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Homebrew 11 tube CB receiver info wanted
Date: 19 Apr 2007 15:28:53 GMT
Organization: The National Capital FreeNet
Lines: 70
Message-ID: <f081rl$ndo$1@theodyn.ncf.ca>
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
<fqWdnVF14K3aaLvbnZ2dnUVZ_qKqnZ2d@comcast.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1176996533 23992 134.117.136.48 (19 Apr 2007 15:28:53 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 19 Apr 2007 15:28:53 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13021
rec.radio.amateur.boatanchors:11337

William Warren (""w_warren_nonoise\"@comcast.net") writes:
> Jim wrote:
>>   I recently won a HOMEBREW 23 channel CB receiver. Yes I know it's
>> not a real boatanchor but given that it has 11 tubes plus several
>> diodes , I thought I'd ask about it here. It looks very well made.
>>
>> I was hoping that some one would recognize it by tube line up. I just
>> looked at it and haven't started drawing the schematic yet. It has the
>> following tubes, 6EH7 (the RF amp) , 12AT7, 12AU7, 6BN8, 6HR6, 6BA6,
>> 6BE6, 6GX6, 12AX7, 6AQ5, and an OA2. It has 6 RF and IF
>> transformers.
>>
>> The antenna is connected directly to a transformer with the RF amp
>> feed by a cap off the secondary. The first oscillator(?) Uses a 29305
>> Kc crystal. It has a "S meter" and what I suspect is a meter adj. pot
>> on the back. There is a octal socket on the back labeled transmitter
>> that has two lines jumped as well as a voltage divider with a large
>> electrolytic to ground in the middle of the divider.
>>
>> The tuning cap is three section with one section switched by a
>> control on the front panel. The tuning cap is driven by a very nicely
>> home made dial cord mechanism with a heavy flywheel. So far I have
>> figured out the RF and audio gain controls. The other two front

>> panels pots function are a question as well as the functions of four
>> multi section toggle switches. With the filter caps being bad. I have
>> not powered it up for more than two minutes.
>>
>> Does anyone remember a home brew rig with these features HAM or CB? I
>> would like to find a schematic if possible. I looked at the HBR site
>> and it doesn't seem to match anything there. But given the limited 23
>> channel coverage plus channels A-D it looks like it's from the late
>> 1960's or real early 1970's .
>>
>> Thanks
>>
>> Jim
>>
>
> Jim,
>
> I'm very surprised to hear that someone would homebrew a CB rig: I'd
> guess it's a commercial unit without the front plate unless the
> workmanship is definitely "homebrew".
>

IN the sixties (and early seventies), it was common for the hobby
electronic magazines to treat CB as a hobby. This was especially so
for "Electronics Illustrated" that had quite a few construction articles,
going from simple to quite sophisticated. So you could build a panadaptor
to check out the adjacent channels, and a receiver to monitor channel 9
(when it became a designated emergency channel) and even a grid dip
oscillator for "Class E CB" up at 220MHz, even though that service
never came to pass.

THere is nothing unique about the description. I can't recall seeing
much in just tuneable CB receivers in the hobby magazines from that
time, but it sounds like a relatively generic receiver (and he did
say receiver, not transceiver).

If it is a CB receiver, there's nothing to guarantee that it was
built from a description in a magazine article, or that it's a direct
copy of something. Someone could have made it up, or copied something
else with mods for CB. Afterall, no matter what the unit is, someone
has to create a unit before they can write it up in a magazine, so
something can exist without a magazine writeup.

And given that he says it's a receiver, if it was a commercial unit
the pickings are slim. I can think of only one manufacturer that made
a standalone CB receiver.

Michael VE2BVW

From 3901957199348588123
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Thread: fc8b1,288b3a2c51615653
X-Google-Attributes: gidfc2a5,gidfc8b1,public

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n59g2000hsh.googlegroups.com!not-for-
mail
From: cmdr buzz corey <cmdr-buzz-corey@mailcity.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Homebrew 11 tube CB receiver info wanted
Date: 19 Apr 2007 09:08:31 -0700
Organization: http://groups.google.com
Lines: 12
Message-ID: <1176998911.434688.154890@n59g2000hsh.googlegroups.com>
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
   <fqWdnVF14K3aaLvbnZ2dnUVZ_qKqnZ2d@comcast.com>
   <f081rl$ndo$1@theodyn.ncf.ca>
NNTP-Posting-Host: 70.58.184.34
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176998911 7547 127.0.0.1 (19 Apr 2007 16:08:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 19 Apr 2007 16:08:31 +0000 (UTC)
In-Reply-To: <f081rl$ndo$1@theodyn.ncf.ca>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.8.1.3)
Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n59g2000hsh.googlegroups.com; posting-host=70.58.184.34;
   posting-account=ANMgdQ0AAAA_X09SagkYnptM5IJu1UIz
Xref: g2news1.google.com rec.radio.amateur.homebrew:13022
rec.radio.amateur.boatanchors:11338

On Apr 19, 9:28 am, e...@FreeNet.Carleton.CA (Michael Black) wrote:

> IN the sixties (and early seventies), it was common for the hobby
> electronic magazines to treat CB as a hobby.  This was especially so
> for "Electronics Illustrated" that had quite a few construction articles,
> going from simple to quite sophisticated.

In the early sixties I ordered one of those cb kits from an
electronics magazine. It consisted of a crudely punched chassis, a bag
of parts and a schematic. I never did get it to work.




From 1959727354801281745
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-in.ntli.net!
newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe4-win.ntli.net.POSTED!53ab2750!not-for-mail
From: "Brian Reay" <see@website.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
```

References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
<f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org>
<4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
<nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net> <f07a0m$eob$1@aioe.org>
Subject: Re: Putting the Ham back into Ham Radio?
Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <CjNVh.1648$mk4.948@newsfe4-win.ntli.net>
Date: Thu, 19 Apr 2007 17:05:38 GMT
NNTP-Posting-Host: 82.12.250.177
X-Complaints-To: http://www.virgin.net/netreport
X-Trace: newsfe4-win.ntli.net 1177002338 82.12.250.177 (Thu, 19 Apr 2007 18:05:38 BST)
NNTP-Posting-Date: Thu, 19 Apr 2007 18:05:38 BST
Organization: Virgin Net Usenet Service
Xref: g2news1.google.com uk.radio.amateur:109989 rec.radio.amateur.homebrew:13023

"G.A.Evans G4SDW" <me@privacy.net> wrote in message
news:f07a0m$eob$1@aioe.org...
> As intimated by A.N.Other, your sincerity is
> called into question.
>
> I proposed a joint effort through Usenet, and outlined
> how some of these biscuits might be evolved.
>
> You very quickly turned to uttering personal slights
> and have continued relentlessly down your chosen path.

Where are these "personal slights"? I offered to help publicise your idea. I've prepared some space to do so or, if you prefer, I will publicise a link to a website you can set up yourself.

So come on, "get baking those biscuits" or I suspect some will conclude your idea was the hardware equivalent of "vapourware".

Brian

From -981302281348882425
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.newsland.it!

aioe.org!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Thu, 19 Apr 2007 18:08:14 +0100
Organization: Aioe.org NNTP Server
Lines: 13
Message-ID: <f087lu$i23$1@aioe.org>
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
<f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org>
<4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
<nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net> <f07a0m$eob$1@aioe.org>
<CjNVh.1648$mk4.948@newsfe4-win.ntli.net>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:109991 rec.radio.amateur.homebrew:13024

There's another one at the bottom.

You can't help yourself.

"Brian Reay" <see@website.invalid> wrote in message
news:CjNVh.1648$mk4.948@newsfe4-win.ntli.net...
> Where are these "personal slights"?

>or I suspect some will conclude your idea was the hardware equivalent of
>"vapourware".

From 2891768478910511396
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Thread: fc8b1,288b3a2c51615653
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out02a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx02.iad01.newshosting.com!newshosting.com!198.186.194.250.MISMATCH!
transit3.readnews.com!news-out.readnews.com!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Homebrew 11 tube CB receiver info wanted
Date: 19 Apr 2007 13:12:41 -0400
Organization: Former users of Netcom shell (1989-2000)

Lines: 17
Message-ID: <f087u9$4k0$1@panix2.panix.com>
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
<fqWdnVF14K3aaLvbnZ2dnUVZ_qKqnZ2d@comcast.com> <f081rl$ndo$1@theodyn.ncf.ca>
<1176998911.434688.154890@n59g2000hsh.googlegroups.com>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1177002761 26910 166.84.1.2 (19 Apr 2007 17:12:41 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 19 Apr 2007 17:12:41 +0000 (UTC)
Xref: g2news1.google.com rec.radio.amateur.homebrew:13025
rec.radio.amateur.boatanchors:11340

cmdr buzz corey <cmdr-buzz-corey@mailcity.com> wrote:
>On Apr 19, 9:28 am, e...@FreeNet.Carleton.CA (Michael Black) wrote:
>
>> IN the sixties (and early seventies), it was common for the hobby
>> electronic magazines to treat CB as a hobby. This was especially so
>> for "Electronics Illustrated" that had quite a few construction articles,
>> going from simple to quite sophisticated.
>
>In the early sixties I ordered one of those cb kits from an
>electronics magazine. It consisted of a crudely punched chassis, a bag
>of parts and a schematic. I never did get it to work.

I thought building a kit CB transceiver was illegal due to the type
acceptance issue?
--scott
--
"C'est un Nagra. C'est suisse, et tres, tres precis."

From -3967431144793585584
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-in.ntli.net!
newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe5-win.ntli.net.POSTED!53ab2750!not-for-mail
From: "Brian Reay" <see@website.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
<f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org>
<4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
<nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net> <f07a0m$eob$1@aioe.org>
<CjNVh.1648$mk4.948@newsfe4-win.ntli.net> <f087lu$i23$1@aioe.org>
Subject: Re: Putting the Ham back into Ham Radio?
Lines: 30
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028

```
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <QwNVh.8520$537.7347@newsfe5-win.ntli.net>
Date: Thu, 19 Apr 2007 17:19:44 GMT
NNTP-Posting-Host: 82.12.250.177
X-Complaints-To: http://www.virgin.net/netreport
X-Trace: newsfe5-win.ntli.net 1177003184 82.12.250.177 (Thu, 19 Apr 2007 18:19:44
BST)
NNTP-Posting-Date: Thu, 19 Apr 2007 18:19:44 BST
Organization: Virgin Net Usenet Service
Xref: g2news1.google.com uk.radio.amateur:109996 rec.radio.amateur.homebrew:13026


"G.A.Evans G4SDW" <me@privacy.net> wrote in message
news:f087lu$i23$1@aioe.org...
> There's another one at the bottom.

No Gareth, it was a pointer toward what some may assume.

If you neither accept my offer or publish your ideas elsewhere, who could
blame those who conclude you weren't really behind the idea?

If you don't want to proceed, just say so. Maybe someone else will pick up
the reins and run with it.

Brian



>
> You can't help yourself.
>
> "Brian Reay" <see@website.invalid> wrote in message
> news:CjNVh.1648$mk4.948@newsfe4-win.ntli.net...
>> Where are these "personal slights"?
>
>
>>or I suspect some will conclude your idea was the hardware equivalent of
>>"vapourware".
>
>





From -6158915186101692438
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Thread: fc8b1,288b3a2c51615653
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!newshub.stanford.edu!
news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
```

Subject: Re: Homebrew 11 tube CB receiver info wanted
Date: 19 Apr 2007 17:38:55 GMT
Organization: The National Capital FreeNet
Lines: 34
Message-ID: <f089ff$r8m$1@theodyn.ncf.ca>
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
<fqWdnVF14K3aaLvbnZ2dnUVZ_qKqnZ2d@comcast.com> <f081rl$ndo$1@theodyn.ncf.ca>
<1176998911.434688.154890@n59g2000hsh.googlegroups.com>
<f087u9$4k0$1@panix2.panix.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1177004335 27926 134.117.136.48 (19 Apr 2007 17:38:55 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 19 Apr 2007 17:38:55 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:13027
rec.radio.amateur.boatanchors:11341

Scott Dorsey (kludge@panix.com) writes:
> cmdr buzz corey <cmdr-buzz-corey@mailcity.com> wrote:
>>On Apr 19, 9:28 am, e...@FreeNet.Carleton.CA (Michael Black) wrote:
>>
>>> IN the sixties (and early seventies), it was common for the hobby
>>> electronic magazines to treat CB as a hobby. This was especially so
>>> for "Electronics Illustrated" that had quite a few construction articles,
>>> going from simple to quite sophisticated.
>>
>>In the early sixties I ordered one of those cb kits from an
>>electronics magazine. It consisted of a crudely punched chassis, a bag
>>of parts and a schematic. I never did get it to work.
>
> I thought building a kit CB transceiver was illegal due to the type
> acceptance issue?

Certainly Heathkit got around the issue with their full blown CB set(s)
by having the transmitter arrive as a preassembled module.

But I thought there was a CB "Benton Harbor Lunchbox" for a while,
and I can't imagine they would have a module for such a low end
unit.

So perhaps the type acceptance came a bit later? I can't remember (not
that I was aware of such things at the time, but I have read lots
of back issues of magazines).

In the very early days, there was equipment being made out of people's
garages. So either the rules were more lax then, or from the outside
there were companies selling things that weren't legal.

Michael VE2BVW

```
From -5415022030100184559
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Thread: fc8b1,288b3a2c51615653
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!ead9a4f6!not-for-mail
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
<fqWdnVF14K3aaLvbnZ2dnUVZ_qKqnZ2d@comcast.com> <f081rl$ndo$1@theodyn.ncf.ca>
<1176998911.434688.154890@n59g2000hsh.googlegroups.com>
<f087u9$4k0$1@panix2.panix.com>
Subject: Re: Homebrew 11 tube CB receiver info wanted
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <SRNVh.3095$j63.198@newsread2.news.pas.earthlink.net>
Date: Thu, 19 Apr 2007 17:42:10 GMT
NNTP-Posting-Host: 24.225.35.108
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1177004530 24.225.35.108 (Thu, 19 Apr
2007 10:42:10 PDT)
NNTP-Posting-Date: Thu, 19 Apr 2007 10:42:10 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13028
rec.radio.amateur.boatanchors:11342


"Scott Dorsey" <kludge@panix.com> wrote in message
news:f087u9$4k0$1@panix2.panix.com...
> cmdr buzz corey  <cmdr-buzz-corey@mailcity.com> wrote:
>>On Apr 19, 9:28 am, e...@FreeNet.Carleton.CA (Michael Black) wrote:
>>
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>>> electronic magazines to treat CB as a hobby.  This was especially so
>>> for "Electronics Illustrated" that had quite a few construction
>>> articles,
>>> going from simple to quite sophisticated.
>>
>>In the early sixties I ordered one of those cb kits from an
>>electronics magazine. It consisted of a crudely punched chassis, a bag
>>of parts and a schematic. I never did get it to work.
>
> I thought building a kit CB transceiver was illegal due to the type
> acceptance issue?
> --scott
> --
>
```

It may be now, I don't know. At one time Heathkit put out a kit called a
CB-1. This was a simple CB and not at all like the one being talked about.
There may have been others, but this is one I know of for sure.

```
From -3398419823813774656
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.euro.net!
postnews2.euro.net!news.wanadoo.nl!not-for-mail
Date: Thu, 19 Apr 2007 20:10:12 +0200
From: know code <know_code@wanadoo.nl>
Reply-To:  "know code"@invalid_address.com
User-Agent: Thunderbird 1.5.0.10 (X11/20070221)
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
<f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org>
<4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
<nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net> <f07a0m$eob$1@aioe.org>
<CjNVh.1648$mk4.948@newsfe4-win.ntli.net>
In-Reply-To: <CjNVh.1648$mk4.948@newsfe4-win.ntli.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: quoted-printable
Lines: 44
Message-ID: <4627b084$0$29219$dbd49001@news.wanadoo.nl>
Organization: Wanadoo
NNTP-Posting-Date: 19 Apr 2007 18:10:13 GMT
NNTP-Posting-Host: s5591cd23.adsl.wanadoo.nl
X-Trace: 1177006213 dr7.euro.net 29219 85.145.205.35:9249
X-Complaints-To: abuse@wanadoo.nl
Xref: g2news1.google.com uk.radio.amateur:110008 rec.radio.amateur.homebrew:13029
```

Brian Reay wrote:
> "G.A.Evans G4SDW" <me@privacy.net> wrote in message=20
> news:f07a0m$eob$1@aioe.org...
>> As intimated by A.N.Other, your sincerity is
>> called into question.
>>
>> I proposed a joint effort through Usenet, and outlined
>> how some of these biscuits might be evolved.
>>
>> You very quickly turned to uttering personal slights
>> and have continued relentlessly down your chosen path.
>=20

```
> Where are these "personal slights"? I offered to help publicise your id=
ea.=20
> I've prepared some space to do so or, if you prefer, I will publicise a=
 link=20
> to a website you can set up yourself.
>=20
> So come on, "get baking those biscuits" or I suspect some will conclude=
 your=20
> idea was the hardware equivalent of "vapourware".


After the way you have treated Gareth over the past few years, do you=20
really think he is going to accept your charity now?  You're in cloud=20
cuckoo cuckoo land if you think he will!

And, I'm sure I'm not alone in thinking that your sudden change of heart =

has some ulterior motive!  It's not difficult to get free web space and=20
if he wanted to continue with this, I'm quite sure he could do it on his =

own, and without you constantly harping on trying to score points!


--=20
ARRL membership =3D $39 (~=A320)
RSGB membership =3D =A344

Don't let them rip you off any more.
Do the right thing, resign from the RSGB today.

The RSGB said Radio Amateurs were a threat to national security!
Is this the type of organisation you want to represent you?


From 803693420760827892
X-Google-Thread: 10c2ee,3d0e9105a33633dc,start
X-Google-Thread: fc2a5,3d0e9105a33633dc,start
X-Google-Attributes: gid10c2ee,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!newshub.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr11.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: 3SK73GR  ??
Lines: 7
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
```

```
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <SkOVh.7308$5e2.2913@newssvr11.news.prodigy.net>
NNTP-Posting-Host: 70.128.125.122
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr11.news.prodigy.net 1177006514 ST000 70.128.125.122 (Thu, 19 Apr
2007 14:15:14 EDT)
NNTP-Posting-Date: Thu, 19 Apr 2007 14:15:14 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
[[PAPDCAOXTMBP\Y]RHV_STDFZ\@@FXLM@TDOCQDJ@_@FN@ANVUEAE[YETZPIWWI[FCIZA^NBFXZ_D[BFN
TCNVPDTNTKHWXKB@X^B_OCJLPZ@ET_O[G\XSG@E\G[ZKVLBL^CJINM@I_KVIOR\T_M_AW_M[_BWU_HFA_]
@A_A^SGFAUDE_DFTMQPFWVW[QPJN
Date: Thu, 19 Apr 2007 18:15:14 GMT
Xref: g2news1.google.com rec.antiques.radio+phono:71212
rec.radio.amateur.homebrew:13030

What does the GR after the part number signify?
tnx

--

73
Hank WD5JFR


From 6813862364897059110
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Thread: fc8b1,288b3a2c51615653
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!sn-xt-sjc-04!sn-xt-sjc-08!sn-post-
sjc-01!supernews.com!news.supernews.com!not-for-mail
From: Lawrence Statton <yankeeinexile@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Homebrew 11 tube CB receiver info wanted
Date: 19 Apr 2007 13:25:44 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <871wig43x3.fsf@gmail.com>
Sender: lawrence@hummer
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
<fqWdnVF14K3aaLvbnZ2dnUVZ_qKqnZ2d@comcast.com> <f081rl$ndo$1@theodyn.ncf.ca>
<1176998911.434688.154890@n59g2000hsh.googlegroups.com>
<f087u9$4k0$1@panix2.panix.com>
User-Agent: Gnus/5.09 (Gnus v5.9.0) Emacs/21.1
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
X-Complaints-To: abuse@supernews.com
Lines: 16
Xref: g2news1.google.com rec.radio.amateur.homebrew:13031
rec.radio.amateur.boatanchors:11343
```

kludge@panix.com (Scott Dorsey) writes:
>
> I thought building a kit CB transceiver was illegal due to the type
> acceptance issue?
> --scott

There was a period, long, long ago, when CB was young, and I was not
yet but a leering glance, that building CB gear was okay.

It stopped being okay before the explosion of the mid-70s.

--
Lawrence Statton - lawrenabae@abaluon.abaom s/aba/c/g
Computer software consists of only two components: ones and
zeros, in roughly equal proportions. All that is required is to
place them into the correct order.

From 6700367164290136896
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Spike <Aero.Spike@S&T.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Thu, 19 Apr 2007 19:22:34 +0100
Lines: 42
Message-ID: <rjcf23liderou43uobothkatp1qruskqe1@4ax.com>
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
<f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org>
<4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
<nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net> <f07a0m$eob$1@aioe.org>
<CjNVh.1648$mk4.948@newsfe4-win.ntli.net>
<4627b084$0$29219$dbd49001@news.wanadoo.nl>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: individual.net LvgTzp3XQ/s4eV9yq/69NQwnAwnR77OHLh5U+I0w9ZsHOfTrfs
X-Newsreader: Forte Agent 1.93/32.576 English (American)
Xref: g2news1.google.com uk.radio.amateur:110011 rec.radio.amateur.homebrew:13032

know code wrote:

>Brian Reay wrote:
>> "G.A.Evans G4SDW" <me@privacy.net> wrote in message
>> news:f07a0m$eob$1@aioe.org...

```
>>>
>>> I proposed a joint effort through Usenet, and outlined
>>> how some of these biscuits might be evolved.
>>>
>>> You very quickly turned to uttering personal slights
>>> and have continued relentlessly down your chosen path.
>>
>> Where are these "personal slights"? I offered to help publicise your idea.
>> I've prepared some space to do so or, if you prefer, I will publicise a link
>> to a website you can set up yourself.
>>
>> So come on, "get baking those biscuits" or I suspect some will conclude your
>> idea was the hardware equivalent of "vapourware".
>
>After the way you have treated Gareth over the past few years, do you
>really think he is going to accept your charity now?  You're in cloud
>cuckoo cuckoo land if you think he will!

Gareth's reply to Brian's offer made it clear that he expected far
more than assistance with site hosting, and threw in a personal attack
for good measure, so I suspect your comment is somewhat ill-informed.

Here is the relevant part of Gareth's posting:

>I doubt his sincerity, based on his previous emotional
>history expressed in this NG, and his contemporaneous
>linking up with Mrs.Nugatory in an abusive sub-thread.
>
>What you have quoted below is most certainly _NOT_
>a support for the proposal. There is no suggestion of what
>the biscuits might be; no suggestion of what the standard interfaces
>between biscuits might be; no suggestion of what the mechanical
>arrangements migth be; no proposals of component sets.
--
from
Aero Spike


From -481166194730586767
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!aioe.org!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Thu, 19 Apr 2007 19:44:00 +0100
Organization: Aioe.org NNTP Server
Lines: 16
Message-ID: <f08d9f$u15$1@aioe.org>
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
<f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
```

<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org>
<4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
<nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net> <f07a0m$eob$1@aioe.org>
<CjNVh.1648$mk4.948@newsfe4-win.ntli.net> <f087lu$i23$1@aioe.org>
<QwNVh.8520$537.7347@newsfe5-win.ntli.net>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:110013 rec.radio.amateur.homebrew:13033

There's another one.

I proposed a group activity, and you have contrived
to turn it, repeatedly, into gratuitous personal slurs,
completely unconnected with my proposal.

Shame on you.

"Brian Reay" <see@website.invalid> wrote in message
news:QwNVh.8520$537.7347@newsfe5-win.ntli.net...
>
> If you neither accept my offer or publish your ideas elsewhere, who could
> blame those who conclude you weren't really behind the idea?
>

From -5944636509467256667
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!news.newsland.it!aioe.org!
not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Thu, 19 Apr 2007 19:48:31 +0100
Organization: Aioe.org NNTP Server
Lines: 11
Message-ID: <f08dhv$ulj$1@aioe.org>
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
<f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org>
<4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
<nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net> <f07a0m$eob$1@aioe.org>

<CjNVh.1648$mk4.948@newsfe4-win.ntli.net> <f087lu$i23$1@aioe.org>
<QwNVh.8520$537.7347@newsfe5-win.ntli.net>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:110016 rec.radio.amateur.homebrew:13034

There's another gratuitous slur.

"Brian Reay" <see@website.invalid> wrote in message
news:QwNVh.8520$537.7347@newsfe5-win.ntli.net...
>
> If you neither accept my offer or publish your ideas elsewhere, who could
> blame those who conclude you weren't really behind the idea?
>

From 1487282159515492494
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 19 Apr 2007 14:14:33 -0500
Date: Thu, 19 Apr 2007 15:14:33 -0400
From: NoMoreSpam <Disgustedham@qrparci.org>
User-Agent: Thunderbird 1.5.0.5 (X11/20060719)
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
<f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org>
<4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
<nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net> <f07a0m$eob$1@aioe.org>
<CjNVh.1648$mk4.948@newsfe4-win.ntli.net>
<4627b084$0$29219$dbd49001@news.wanadoo.nl>
<rjcf23liderou43uobothkatp1qruskqe1@4ax.com>
In-Reply-To: <rjcf23liderou43uobothkatp1qruskqe1@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <4ZOdnWnsCZsEIrrbnZ2dnUVZ_iydnZ2d@comcast.com>
Lines: 40

NNTP-Posting-Host: 76.98.105.37
X-Trace:
sv3-3D181YonyjDa9Ivb9swoLY5WX2wgoOtRlHAV4A8emgpvliozJsjbe4DH+IufOob9JzhR9CVMR7cz4F
L!CbAt7v0cqWLW2IMnTfhCa82jZRA+VL3md8ab7TR/xMrbXWsB1WNmaA8ctQD70xXraK5M8J8bYdiz!
XqpMEiEk44gYeHJ3Dnm6I95Sr+yE
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com uk.radio.amateur:110025 rec.radio.amateur.homebrew:13035

Spike wrote:
> know code wrote:
>
>> Brian Reay wrote:
>>> "G.A.Evans G4SDW" <me@privacy.net> wrote in message
>>> news:f07a0m$eob$1@aioe.org...
>>>> I proposed a joint effort through Usenet, and outlined
>>>> how some of these biscuits might be evolved.
>>>>
>>>> You very quickly turned to uttering personal slights
>>>> and have continued relentlessly down your chosen path.
>>> Where are these "personal slights"? I offered to help publicise your idea.
>>> I've prepared some space to do so or, if you prefer, I will publicise a link
>>> to a website you can set up yourself.
>>>
>>> So come on, "get baking those biscuits" or I suspect some will conclude your
>>> idea was the hardware equivalent of "vapourware".
>> After the way you have treated Gareth over the past few years, do you
>> really think he is going to accept your charity now? You're in cloud
>> cuckoo cuckoo land if you think he will!
>
> Gareth's reply to Brian's offer made it clear that he expected far
> more than assistance with site hosting, and threw in a personal attack
> for good measure, so I suspect your comment is somewhat ill-informed.
>
> Here is the relevant part of Gareth's posting:
>
>> I doubt his sincerity, based on his previous emotional
>> history expressed in this NG, and his contemporaneous
>> linking up with Mrs.Nugatory in an abusive sub-thread.
>>
>> What you have quoted below is most certainly _NOT_
>> a support for the proposal. There is no suggestion of what
>> the biscuits might be; no suggestion of what the standard interfaces
>> between biscuits might be; no suggestion of what the mechanical
>> arrangements migth be; no proposals of component sets.

Watching these Brits make asses of themselves makes me proud to be an American!

```
From 7693600842447718780
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Thread: fc8b1,288b3a2c51615653
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews8.bellsouth.net.POSTED!725764fe!not-for-mail
From: jakdedert <jakdedert@bellsouth.net>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Homebrew 11 tube CB receiver info wanted
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
<fqWdnVF14K3aaLvbnZ2dnUVZ_qKqnZ2d@comcast.com> <f081rl$ndo$1@theodyn.ncf.ca>
<1176998911.434688.154890@n59g2000hsh.googlegroups.com>
<f087u9$4k0$1@panix2.panix.com> <871wig43x3.fsf@gmail.com>
In-Reply-To: <871wig43x3.fsf@gmail.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 17
Message-ID: <qjPVh.11734$XU4.6246@bignews8.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mabncmnekmdohbabdbdpiflmbcekedmfhojhikkbagflhcbogjmmfniojmfagegohpeoamnnpapibpnhdo
llnpjjpkchcpfibppiejolejcelckfhopmihgaiplfohgefhchflnhoeggpcplkpfpmkahhapbeebm
NNTP-Posting-Date: Thu, 19 Apr 2007 15:21:58 EDT
Organization: BellSouth Internet Group
Date: Thu, 19 Apr 2007 14:22:58 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:13036
rec.radio.amateur.boatanchors:11344
```

Lawrence Statton wrote:

> kludge@panix.com (Scott Dorsey) writes:
>> I thought building a kit CB transceiver was illegal due to the type
>> acceptance issue?
>> --scott
>
> There was a period, long, long ago, when CB was young, and I was not
> yet but a leering glance, that building CB gear was okay.
>
> It stopped being okay before the explosion of the mid-70s.
>

There were a number of kits as I remember. Heath had several, as did
Allied (Knight Kits). These could be at least as sophisticated as the
mid-range factory units of the day.

jak

```
From -4543952119985400255
X-Google-Thread: 10c2ee,3d0e9105a33633dc
X-Google-Thread: fc2a5,3d0e9105a33633dc
X-Google-Attributes: gid10c2ee,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!news.tiscali.fr!
newsfeed1.ip.tiscali.net!tiscali!transit1.news.tiscali.nl!transit.news.xs4all.nl!
newsgate.cistron.nl!xs4all!transit3.news.xs4all.nl!post.news.xs4all.nl!not-for-
mail
Message-ID: <4627c74a$0$69886$e4fe514c@news.xs4all.nl>
From: maarten@panic.xx.tudelft.nl
Subject: Re: 3SK73GR  ??
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
References: <SkOVh.7308$5e2.2913@newssvr11.news.prodigy.net>
User-Agent: tin/1.7.7-20041215 ("Scalpay") (UNIX) (FreeBSD/4.10-RELEASE-p2 (i386))
Date: 19 Apr 2007 19:47:22 GMT
Lines: 10
NNTP-Posting-Host: 194.109.21.4
X-Trace: 1177012042 news.xs4all.nl 69886 [::ffff:194.109.21.4]:3080
X-Complaints-To: abuse@xs4all.nl
Xref: g2news1.google.com rec.antiques.radio+phono:71218
rec.radio.amateur.homebrew:13037

In rec.antiques.radio+phono Henry Kolesnik <kolesnik@nojunksbcglobal.net> wrote:
> What does the GR after the part number signify?

I don't know for FETs, but on normal Japanese transistors it signifies the
hFe group (amplification factor).

--
Met vriendelijke groet,

Maarten Bakker.


From -3241836299549441854
X-Google-Thread: 10c2ee,3d0e9105a33633dc
X-Google-Thread: fc2a5,3d0e9105a33633dc
X-Google-Attributes: gid10c2ee,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o5g2000hsb.googlegroups.com!not-for-
mail
From: "shoppa@trailing-edge.com" <shoppa@trailing-edge.com>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: Re: 3SK73GR ??
Date: 19 Apr 2007 12:47:22 -0700
Organization: http://groups.google.com
Lines: 13
Message-ID: <1177012042.785629.179220@o5g2000hsb.googlegroups.com>
References: <SkOVh.7308$5e2.2913@newssvr11.news.prodigy.net>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1177012043 9767 127.0.0.1 (19 Apr 2007 19:47:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 19 Apr 2007 19:47:23 +0000 (UTC)
In-Reply-To: <SkOVh.7308$5e2.2913@newssvr11.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o5g2000hsb.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com rec.antiques.radio+phono:71219
rec.radio.amateur.homebrew:13038
```

On Apr 19, 2:15 pm, "Henry Kolesnik" <koles...@nojunksbcglobal.net>
wrote:

> What does the GR after the part number signify?
> tnx

Are you talking about the dual-gate MOSFET used in some Yaesu equipment?

I think the GR suffix in that case has to do with selection for low noise and low intermod.

Tim.

```
From 4279135352497013592
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Thread: fc8b1,288b3a2c51615653
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
207.69.154.102.MISMATCH!elnk-atl-nf2!newsfeed.earthlink.net!
stamper.news.atl.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!b2c36a81!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
<fqWdnVF14K3aaLvbnZ2dnUVZ_qKqnZ2d@comcast.com>
Subject: Re: Homebrew 11 tube CB receiver info wanted
Lines: 14
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <nxTVh.3240$j63.1442@newsread2.news.pas.earthlink.net>
Date: Fri, 20 Apr 2007 00:09:55 GMT
NNTP-Posting-Host: 4.242.183.227
```

```
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1177027795 4.242.183.227 (Thu, 19 Apr
2007 17:09:55 PDT)
NNTP-Posting-Date: Thu, 19 Apr 2007 17:09:55 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13039
rec.radio.amateur.boatanchors:11347
```

The tube lineup is from the later generation of miniature tubes - which means mid 60's. It looks like the first conversion oscillator is crystal controlled and the receiver uses a tunable if stage - similar to Drake. That means it would be easy to change thr crystal controlled first conversion stage and cover any other range. Might be a good 10 meter receiver - or perhaps the 12 meter band. There could be some value to a cb collector, since few home brew receivers were made.

One of the pots might be noise limiting adjustment, or one could be for a Q-multiplier.

Colin K7FM

```
From 2443382109857645033
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Thread: fc8b1,288b3a2c51615653
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!indigo.octanews.net!news-
out.octanews.net!mauve.octanews.net!news-out.readnews.com!postnews3.readnews.com!
news.coretel.net!not-for-mail
From: "Radiosrfun" <Radiosrfun@radiosrfun.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
<fqWdnVF14K3aaLvbnZ2dnUVZ_qKqnZ2d@comcast.com>
<nxTVh.3240$j63.1442@newsread2.news.pas.earthlink.net>
Subject: Re: Homebrew 11 tube CB receiver info wanted
Date: Thu, 19 Apr 2007 23:11:58 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Lines: 20
Message-ID: <46282f73$0$22111$ecde5a14@news.coretel.net>
Organization: CoreTel
NNTP-Posting-Host: 0c80276a.news.coretel.net
X-Trace: DXC=]Wc@eJaR^Y:ol9?
@e\1Yh9cYX6N<OEXQ;=6olUWo2285<_e:ikSNOZ=YCj3lOTU[K;cAk^g4jc>0;
X-Complaints-To: abuse@coretel.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13040
rec.radio.amateur.boatanchors:11350
```

"COLIN LAMB" <k7fm@teleport.com> wrote in message
news:nxTVh.3240$j63.1442@newsread2.news.pas.earthlink.net...
> The tube lineup is from the later generation of miniature tubes - which
> means mid 60's. It looks like the first conversion oscillator is crystal
> controlled and the receiver uses a tunable if stage - similar to Drake.
> That means it would be easy to change thr crystal controlled first
> conversion stage and cover any other range. Might be a good 10 meter
> receiver - or perhaps the 12 meter band. There could be some value to a
> cb collector, since few home brew receivers were made.
>
> One of the pots might be noise limiting adjustment, or one could be for a
> Q-multiplier.
>
> Colin K7FM
>

Didn't one issue of like an RCA Tube Manual - have a schematic in it for a
cb receiver or "transceiver"? I know I've seen them out there.

```
From -5945177854023499685
X-Google-Thread: 112d1e,74146c4ef100f57a,start
X-Google-Thread: fc2a5,74146c4ef100f57a,start
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
y5g2000hsa.googlegroups.com!not-for-mail
From: "Ross Tucker, NS7F" <rjtucke@gmail.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: help needed on hi-V power supply circuit
Followup-To: sci.electronics.design
Date: 19 Apr 2007 21:18:10 -0700
Organization: http://groups.google.com
Lines: 44
Message-ID: <1177042690.411155.283850@y5g2000hsa.googlegroups.com>
NNTP-Posting-Host: 68.2.252.172
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1177042690 23866 127.0.0.1 (20 Apr 2007 04:18:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 20 Apr 2007 04:18:10 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.3) Gecko/
20070310 Iceweasel/2.0.0.3 (Debian-2.0.0.3-1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y5g2000hsa.googlegroups.com; posting-host=68.2.252.172;
   posting-account=Z00KWA0AAAAKEHY2UyS3wqEckPJYZh9S
Xref: g2news1.google.com sci.electronics.design:221357
rec.radio.amateur.homebrew:13041
```

A little over a year ago, I posted a request for help (1) in designing
a circuit to get 300VDC out of a power supply that was pumping out
~520VDC. I got many helpful replies, but unfortunately, I was unable
to complete the circuit. I now have three transmitters (2,3,4) that
would like
a nice source of high voltage and I must now admit that I really do
need your help in completing this project.

I own a really nice, heavy transformer that I'd like to use-
unfortunately, the voltage is a bit too high- it puts out ~520VDC
(after a 3-pole filter 10uF/10H/10uF with 40kOhm bleeder
resistor). I am looking for some ways to bring this down to the
voltage I need.

Although I consider myself a competent builder, I am unfortunately not
much of a designer - this is what has prevented my progress for the
past year! I own the '05 ARRL handbook and Art of Electronics, but I'm
just not comfortable doing this myself. Specifically, telling me the
type of transistor/tube and not specifying the part number or an
article describing a similar HV regulator would leave me somewhat
stranded. I know I'm asking a lot here -- please understand that I
am immensely greatful for any of your help!

Here is my specification / wish-list, in decreasing order of
importance:
* produce ~370Vdc at 120 mA
* cost less than $50
* not require modification of the transformer
* also be able to produce ~240Vdc at 40 mA
* also be able to produce ~300Vdc at 70 mA
* be hollow-state
* be elegant

References
(1) One link to this thread is at
http://sci.tech-archive.net/Archive/sci.electronics.design/2006-04/msg01268.html
(2) The One-Tube Three-Band Novice Transmitter: see
http://www.bignick.net/Morgan_Radio/Radio_11.htm and download the
article on the mid-bottom right side of the page.
(3) The Novice Special transmitter: ARRL members only, download at
http://www.arrl.org/members-only/tis/info/pdf/71hb181.pdf
(4) The Simple Transmitter: ARRL members only, download at
http://www.arrl.org/members-only/tis/info/pdf/55ra019t.pdf

```
From 6659898639778106859
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Thread: fc8b1,288b3a2c51615653
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
```

```
newsread2.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
From: Doug Smith W9WI <w9wi@invalid.nospam>
Subject: Re: Homebrew 11 tube CB receiver info wanted
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.04.20.04.43.32.565528@invalid.nospam>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
<fqWdnVF14K3aaLvbnZ2dnUVZ_qKqnZ2d@comcast.com> <f081rl$ndo$1@theodyn.ncf.ca>
<1176998911.434688.154890@n59g2000hsh.googlegroups.com>
<f087u9$4k0$1@panix2.panix.com> <f089ff$r8m$1@theodyn.ncf.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 21
Date: Fri, 20 Apr 2007 04:34:00 GMT
NNTP-Posting-Host: 4.154.45.160
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1177043640 4.154.45.160 (Thu, 19 Apr
2007 21:34:00 PDT)
NNTP-Posting-Date: Thu, 19 Apr 2007 21:34:00 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13042
rec.radio.amateur.boatanchors:11351

On Thu, 19 Apr 2007 17:38:55 +0000, Michael Black wrote:
>> I thought building a kit CB transceiver was illegal due to the type
>> acceptance issue?
...
> So perhaps the type acceptance came a bit later?  I can't remember (not
> that I was aware of such things at the time, but I have read lots of
> back issues of magazines).

ISTR:

- Heath equipment was acceptable contingent on being assembled
according to the instructions.  There was a notice in some of the manuals
about that - ISTR some devices where one part was a Part 15 label which
the builder was to sign & date & stick to the completed kit certifying
they'd followed the instructions.

- It was legal to homebrew CB gear in the early days of the service, but
that rule was changed - well before the 1960s.  (I'm not sure it was
*ever* legal to homebrew 27MHz CB gear, it may have only been legal for
the old 470MHz stuff)




From -7616243588011029710
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Thread: fc8b1,288b3a2c51615653
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!news-
```

out.octanews.net!indigo.octanews.net!auth.brown.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Homebrew 11 tube CB receiver info wanted
Date: Thu, 19 Apr 2007 23:40:57 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.04.20.06.40.42.539157@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
<fqWdnVF14K3aaLvbnZ2dnUVZ_qKqnZ2d@comcast.com> <f081rl$ndo$1@theodyn.ncf.ca>
<1176998911.434688.154890@n59g2000hsh.googlegroups.com>
<f087u9$4k0$1@panix2.panix.com> <f089ff$r8m$1@theodyn.ncf.ca>
<pan.2007.04.20.04.43.32.565528@invalid.nospam>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 20
Organization: Octanews
NNTP-Posting-Date: 20 Apr 2007 01:41:03 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13043
rec.radio.amateur.boatanchors:11352

Hi,

On Fri, 20 Apr 2007 04:34:00 +0000, Doug Smith W9WI wrote:

> - It was legal to homebrew CB gear in the early days of the service, but
> that rule was changed - well before the 1960s. (I'm not sure it was
> *ever* legal to homebrew 27MHz CB gear, it may have only been legal for
> the old 470MHz stuff)

It may not have been in the US, but before regulation and since
deregulation, one can build up to 5 CB's and call them prototypes in .ca
land, as long as they meet Industry Canada (then the Department of
Communications) specifications.

Maybe it's a Canuck rig?

Cheers,

--
Gregg

From -5277532458234200681
X-Google-Thread: fc2a5,cf6dd909f3daf044
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!postnews.google.com!
p77g2000hsh.googlegroups.com!not-for-mail
From: terry <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power Rheostat Question..

Date: 20 Apr 2007 00:02:07 -0700
Organization: http://groups.google.com
Lines: 31
Message-ID: <1177052527.644877.176910@p77g2000hsh.googlegroups.com>
References: <QjTUh.521278$Ju2.450125@newsfe16.lga>
   <pbidnQW9E8S2LLnbRVnyugA@pipex.net>
NNTP-Posting-Host: 89.211.4.3
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1177052527 19693 127.0.0.1 (20 Apr 2007 07:02:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 20 Apr 2007 07:02:07 +0000 (UTC)
In-Reply-To: <pbidnQW9E8S2LLnbRVnyugA@pipex.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p77g2000hsh.googlegroups.com; posting-host=89.211.4.3;
   posting-account=J8f3NA0AAAApayX7upsAHyq0lPJRDLXM
Xref: g2news1.google.com rec.radio.amateur.homebrew:13044

On Apr 17, 2:35 pm, Highland Ham <abcgm0csz.kn6wh...@dsl.pipex.com>
wrote:
> Uncle Peter wrote:
> > Does reducing the resistance affect the wattage rating
> > of a power rheostat? I'd imagine it does, but I'm not
> > sure how it would be derated..
>
> ============================
> The power rating of a rheostat is based upon its total resistance R.
> allowing for a max current I   with P(max) equals I*I*R
>
> If the adjustable resistance is reduced to say 1/5 of the total
> resistance that reduced resistance can accept the same current I .
> This means the power rating has been reduced by a factor 5 ,in other
> words the power rating is proportional to the set resistance.
>
> Frank   GM0CSZ / KN6WH

That's logical.
But just to nit-pick! :-)
Got one of those ceramic tubular adjustable slide resistors. Rated at
300 watts IIRC.
If I put the slider half way along I will have half the resistance
wire in the circuit and dissipating heat at full current rating;
correct?
But still the same thermal mass of ceramic and metal. So could one
perhaps argue that it might be 'slightly' (very slightly perhaps) a
little more than half the power rating. Probably nothing to have any
effect whatsoever in practice because one would not run a component at
maximum rating at any setting anyway?

```
From -3985976779687888217
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Thread: fc8b1,288b3a2c51615653
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-out.octanews.net!
indigo.octanews.net!auth.beige.octanews.com.POSTED!not-for-mail
From: geek <geek@localhost.localdomain>
Subject: Re: Homebrew 11 tube CB receiver info wanted
Date: Fri, 20 Apr 2007 00:03:50 -0700
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.04.20.07.03.50.835705@localhost.localdomain>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
<fqWdnVF14K3aaLvbnZ2dnUVZ_qKqnZ2d@comcast.com> <f081rl$ndo$1@theodyn.ncf.ca>
<1176998911.434688.154890@n59g2000hsh.googlegroups.com>
<f087u9$4k0$1@panix2.panix.com> <f089ff$r8m$1@theodyn.ncf.ca>
<pan.2007.04.20.04.43.32.565528@invalid.nospam>
<pan.2007.04.20.06.40.42.539157@localhost.localdomain>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 7
Organization: Octanews
NNTP-Posting-Date: 20 Apr 2007 02:03:57 CDT
X-Complaints-To: abuse@octanews.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13045
rec.radio.amateur.boatanchors:11353
```

Just for clarification on my last post, info can be found in RSS210, section 5.14 of Industry Canada's regulations. Home built for personal use, not prototypes. My err.

Cheers,

--
Gregg

```
From 3443999513556300082
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!213.200.89.82.MISMATCH!
tiscali!newsfeed1.ip.tiscali.net!news.tiscali.de!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Spike <Aero.Spike@S&T.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Fri, 20 Apr 2007 08:30:34 +0100
Lines: 9
Message-ID: <evqg231dalnsv9r8mf48ovgkft53b8i2ak@4ax.com>
```

References: <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org>
<4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
<nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net> <f07a0m$eob$1@aioe.org>
<CjNVh.1648$mk4.948@newsfe4-win.ntli.net>
<4627b084$0$29219$dbd49001@news.wanadoo.nl>
<rjcf23liderou43uobothkatp1qruskqe1@4ax.com>
<4ZOdnWnsCZsEIrrbnZ2dnUVZ_iydnZ2d@comcast.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: individual.net nRvAETgD73kGB3gkLv/ODgI6kLqz4AcIVVKB65otcj/asbCNYT
X-Newsreader: Forte Agent 1.93/32.576 English (American)
Xref: g2news1.google.com uk.radio.amateur:110090 rec.radio.amateur.homebrew:13046

NoMoreSpam wrote:

>Watching these Brits make asses of themselves makes me proud to be an American!

Remind me again how democracy is progressing in Iraq.
--
from
Aero Spike

From 1385341688254101990
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!news.in2p3.fr!in2p3.fr!
news.ecp.fr!aioe.org!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Fri, 20 Apr 2007 10:09:28 +0100
Organization: Aioe.org NNTP Server
Lines: 16
Message-ID: <f0a008$4lt$1@aioe.org>
References: <evvkn4$236$1@aioe.org>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:110096 rec.radio.amateur.homebrew:13047

Is anybody interested in such a project and prepared
to join with _REALISTIC_ non-nugatory support?

<me@privacy.net> wrote in message news:evvkn4$236$1@aioe.org...
>I wonder if we who are the Usenet-frequenting Radio
> Hams might somehow get together to sort out the
> dreadful mess that has been created in no small
> part by the self-interest of those who control
> the RSCB?
>
> Might we all act together to produce a series
> of "biscuits" that could then be assembled
> Lego-like fashion to produce any rig or test
> equipment?

From -3599734606891069152
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!news.in2p3.fr!in2p3.fr!news.ecp.fr!aioe.org!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Fri, 20 Apr 2007 10:27:30 +0100
Organization: Aioe.org NNTP Server
Lines: 19
Message-ID: <f0a122$6tc$1@aioe.org>
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org> <f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net> <1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org> <l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org> <4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net> <nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net> <f07a0m$eob$1@aioe.org> <CjNVh.1648$mk4.948@newsfe4-win.ntli.net> <4627b084$0$29219$dbd49001@news.wanadoo.nl> <hCOVh.1667$V7.71@newsfe7-gui.ntli.net>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:110097 rec.radio.amateur.homebrew:13048

Mr.Nugatory, that is a terrible thing to say about anyone!

Please quote your instances, showing your "offer" in full
together with the "insults" that you say were "hurled"

Perhaps we will find that the so-called "offer" is perhaps
somewhat disingenuous?

"Brian Reay" <see@website.invalid> wrote in message
news:hCOVh.1667$V7.71@newsfe7-gui.ntli.net...
> "know code" <know_code@wanadoo.nl> wrote in message
> news:4627b084$0$29219$dbd49001@news.wanadoo.nl...
>>And, I'm sure I'm not alone in thinking that your sudden change of heart
>>has some ulterior motive!
> If you look back you will see several instances of my offering assistance
> to Gareth that he has rejected or turned into some reason to hurl insults
> (recent example his "group up / group down" query).

From -8877803506796219845
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!news.newsland.it!aioe.org!
not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Fri, 20 Apr 2007 10:29:20 +0100
Organization: Aioe.org NNTP Server
Lines: 15
Message-ID: <f0a15f$710$1@aioe.org>
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
<f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org>
<4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
<nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net> <f07a0m$eob$1@aioe.org>
<CjNVh.1648$mk4.948@newsfe4-win.ntli.net>
<4627b084$0$29219$dbd49001@news.wanadoo.nl> <hCOVh.1667$V7.71@newsfe7-
gui.ntli.net> <f08dco$uf4$1@aioe.org>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:110098 rec.radio.amateur.homebrew:13049

Attack on circulation list by someone who wished to
hide corrected.....

<me@privacy.net> wrote in message news:f08dco$uf4$1@aioe.org...
> There's another unwarranted slur!

```
>
> "Brian Reay" <see@website.invalid> wrote in message
> news:hCOVh.1667$V7.71@newsfe7-gui.ntli.net...
>> It was Gareth's idea and it is right he should set it rolling although I
>> fear it has already faultered.
>>
>
>




From -3241925946087790l0
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.ecp.fr!aioe.org!not-
for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Fri, 20 Apr 2007 10:30:00 +0100
Organization: Aioe.org NNTP Server
Lines: 19
Message-ID: <f0a16o$72e$1@aioe.org>
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
<f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org>
<4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
<nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net> <f07a0m$eob$1@aioe.org>
<CjNVh.1648$mk4.948@newsfe4-win.ntli.net>
<4627b084$0$29219$dbd49001@news.wanadoo.nl> <hCOVh.1667$V7.71@newsfe7-
gui.ntli.net> <f08dco$uf4$1@aioe.org> <lSOVh.5017$J64.4882@newsfe3-gui.ntli.net>
<f08duh$vms$1@aioe.org>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:110099 rec.radio.amateur.homebrew:13050

Hacked circualtion list corrected.....

<me@privacy.net> wrote in message news:f08duh$vms$1@aioe.org...
> There's another unwarranted slur!
>
> "Brian Reay" <see@website.invalid> wrote in message
> news:lSOVh.5017$J64.4882@newsfe3-gui.ntli.net...
>> <me@privacy.net> wrote in message news:f08dco$uf4$1@aioe.org...
```

>>> There's another unwarranted slur!
>>> "Brian Reay" <see@website.invalid> wrote in message
>>> news:hCOVh.1667$V7.71@newsfe7-gui.ntli.net...
>>>> It was Gareth's idea and it is right he should set it rolling although
>>>> I fear it has already faultered.
>> Gareth, if you were to have circulated a design then no one could think
>> the idea had faulted. However, in the absence of a design............
>
>

From -8151685925104347280
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wn13feed!worldnet.att.net!207.14.113.41!news.alt.net
From: Smiffy <Smiffy@?.?>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Fri, 20 Apr 2007 10:51:14 +0100
Organization: none
Lines: 35
Message-ID: <s6nvm.7hv.19.1@news.alt.net>
References: <evvkn4$236$1@aioe.org> <f0a008$4lt$1@aioe.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
In-Reply-To: <f0a008$4lt$1@aioe.org>
Xref: g2news1.google.com uk.radio.amateur:110102 rec.radio.amateur.homebrew:13051

G.A.Evans G4SDW wrote:
> Is anybody interested in such a project and prepared
> to join with _REALISTIC_ non-nugatory support?

I am sure that many people would be happy to join in the project, once they see that you are serious about it and have a good idea of the scope that you intend. Why not sketch out some rough ideas, block diagrams suggesting which biscuits would be needed initially (ideally I'd guess some building blocks which could be useful in their own right - e.g. VFO, amplifiers etc.), together with a proposal for how they should connect together - some kind of standardised backplane, a connector stack arrangement similar in concept to PC/104 (http://www.pc104.org/technology/PDF/PC104%20Spec%20v2_5.pdf), something different entirely?

What are you really thinking of here? Is it as simple as "every biscuit shall be either a Xcm * Ycm, or half sized X/2cm * Ycm" and allow free reign on electrical interfaces, or try to work out some kind of standard for general interface levels and protocols between biscuits?

How do you envision the project being managed? What kind of collaboration methods would you use?

The idea is sound, but to spark enthusiasm perhaps you should offer a little more than "Hey guys, let's build a radio". Collaborative projects either need a strong lead or a good previous track record of similar work. Even then take time to get going until people can see where you are heading and that they agree with it and feel they can be a useful part of the project. Throw some basics together, put a bit of flesh on your proposal, and I'm sure you'll get more people interested. It may well end up being you doing it on your own until the first biscuits are designed, but then it should gain momentum. Regularly publish what you are doing and where you are up to; a simple technical report and ignoring those who would shout you down (or a simple technical response, not falling down to "stupid boy" name calling) should gain you support.

```
From -6656886915489310774
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Thread: fc8b1,288b3a2c51615653
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 20 Apr 2007 06:07:38 -0500
Date: Fri, 20 Apr 2007 12:07:39 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.2) Gecko/
20070222 SeaMonkey/1.1.1
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Homebrew 11 tube CB receiver info wanted
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
<fqWdnVF14K3aaLvbnZ2dnUVZ_qKqnZ2d@comcast.com> <f081rl$ndo$1@theodyn.ncf.ca>
<1176998911.434688.154890@n59g2000hsh.googlegroups.com>
<f087u9$4k0$1@panix2.panix.com>
In-Reply-To: <f087u9$4k0$1@panix2.panix.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <2rqdnY-D0NtmA7XbnZ2dnUVZ8sjinZ2d@pipex.net>
Lines: 15
NNTP-Posting-Host: 85.210.13.1
X-Trace: sv3-iSmgeAdANsSoNKAWy/g/
6SZR93n+uYmmwNRnAiH6ggNrtij265n5Kw7b8Jnx9c5KUfUGF4QcZdD/6U5!
rPTiP1FJZg3AaIYqvEjiVD+0771l5y/rGYg5sSgGlNJu5nO4hj2Urf1NU5YVpuucvsEU84GM6aIQ!
QxheZdsXC2dMgbPbQGLnqNU=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

```
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13052
rec.radio.amateur.boatanchors:11354

>>> IN the sixties (and early seventies), it was common for the hobby
>>> electronic magazines to treat CB as a hobby.  This was especially so
>>> for "Electronics Illustrated" that had quite a few construction articles,
>>> going from simple to quite sophisticated.
>> In the early sixties I ordered one of those cb kits from an
>> electronics magazine. It consisted of a crudely punched chassis, a bag
>> of parts and a schematic. I never did get it to work.
>
> I thought building a kit CB transceiver was illegal due to the type
> acceptance issue?
=========================================
Building a CB 'receiver' from a kit can't be illegal.

Frank  GM0CSZ / KN6WH




From -1568440921776163279
X-Google-Thread: fc2a5,74146c4ef100f57a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-
mail
NNTP-Posting-Date: Fri, 20 Apr 2007 06:18:15 -0500
From: "Edward Feustel" <efeustel@hughes.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1177042690.411155.283850@y5g2000hsa.googlegroups.com>
Subject: Re: help needed on hi-V power supply circuit
Date: Fri, 20 Apr 2007 07:17:51 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <FdKdnTtnrbbkPLXbnZ2dnUVZ_hqdnZ2d@giganews.com>
Lines: 64
X-Trace: sv3-hf5ajsbUcuOayrpwJODams10PWuzi15U7w8vKJ0GTKFLBJFp4tN5x0HrZwpPY5Z17FF/
Ais2g6uNy/X!nupvtxqupan46gvOqggx66NEL9n5Oxv/
2RrUseu1XOBfL9Jw3wJLEYWoAE812jSpGCZZwXMkCQ==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13053
```

"Ross Tucker, NS7F" <rjtucke@gmail.com> wrote in message
news:1177042690.411155.283850@y5g2000hsa.googlegroups.com...
>A little over a year ago, I posted a request for help (1) in designing
> a circuit to get 300VDC out of a power supply that was pumping out
> ~520VDC. I got many helpful replies, but unfortunately, I was unable
> to complete the circuit. I now have three transmitters (2,3,4) that
> would like
> a nice source of high voltage and I must now admit that I really do
> need your help in completing this project.
>
> I own a really nice, heavy transformer that I'd like to use-
> unfortunately, the voltage is a bit too high- it puts out ~520VDC
> (after a 3-pole filter 10uF/10H/10uF with 40kOhm bleeder
> resistor). I am looking for some ways to bring this down to the
> voltage I need.
>
> Although I consider myself a competent builder, I am unfortunately not
> much of a designer - this is what has prevented my progress for the
> past year! I own the '05 ARRL handbook and Art of Electronics, but I'm
> just not comfortable doing this myself. Specifically, telling me the
> type of transistor/tube and not specifying the part number or an
> article describing a similar HV regulator would leave me somewhat
> stranded. I know I'm asking a lot here -- please understand that I
> am immensely greatful for any of your help!
>
> Here is my specification / wish-list, in decreasing order of
> importance:
> * produce ~370Vdc at 120 mA
> * cost less than $50
> * not require modification of the transformer
> * also be able to produce ~240Vdc at 40 mA
> * also be able to produce ~300Vdc at 70 mA
> * be hollow-state
> * be elegant
>
> References
> (1) One link to this thread is at
> http://sci.tech-archive.net/Archive/sci.electronics.design/2006-04/msg01268.html
> (2) The One-Tube Three-Band Novice Transmitter: see
> http://www.bignick.net/Morgan_Radio/Radio_11.htm and download the
> article on the mid-bottom right side of the page.
> (3) The Novice Special transmitter: ARRL members only, download at
> http://www.arrl.org/members-only/tis/info/pdf/71hb181.pdf
> (4) The Simple Transmitter: ARRL members only, download at
> http://www.arrl.org/members-only/tis/info/pdf/55ra019t.pdf
>

Do you need to have all three voltages simultaneously?
How good a regulation do you need?
How much do the current requirements vary on each voltage?
Will your supply support 570 volts at 230 ma?

If the currents do not vary much, then why not use a different resistor in series for each desired voltage? e.g., 1666 ohms at (at least) 24 watts, 10750 ohms at (at least) 17.2 watts, and 3900 at (at least) 18.9 watts. For confidence you might wish to use a 50 watt resistor for the first and 25 watt resistors for the second and third. You could have different voltage terminals for each desired voltage. If the voltage decreases under load, then change the resistance calculations.
Ed, N5EI

From 6927994357845678859
X-Google-Thread: fc2a5,74146c4ef100f57a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-online.de!texta.sil.at!newsfeed0.kamp.net!newsfeed.kamp.net!nntp-peering.plus.net!ptn-nntp-feeder01.plus.net!ptn-nntp-spool01.plus.net!ptn-nntp-reader02.plus.net!not-for-mail
Reply-To: "John A" <e455gkf@yahoo.co.uk>
From: "John A" <e455gkf@yahoo.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <1177042690.411155.283850@y5g2000hsa.googlegroups.com>
Subject: Re: help needed on hi-V power supply circuit
Date: Fri, 20 Apr 2007 12:41:14 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Lines: 13
Message-ID: <4628a729$0$8715$ed2619ec@ptn-nntp-reader02.plus.net>
Organization: Customer of PlusNet plc (http://www.plus.net)
NNTP-Posting-Host: c5fcd4aa.ptn-nntp-reader02.plus.net
X-Trace: DXC=<IOohVncVZFCC3f?<3cV>Gigd3Y`7Rb;N37XnI;[OUCDG`jPeGcW;iKPLNQUSJlnDD4Tm7de1j46H`4^1TQhL`hM
X-Complaints-To: abuse@plus.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:13054

> unfortunately, the voltage is a bit too high- it puts out ~520VDC
> (after a 3-pole filter 10uF/10H/10uF with 40kOhm bleeder
> resistor). I am looking for some ways to bring this down to the
> voltage I need.
>

As a first, simple, experiment disconnect the 10uF nearest the rectifier and reconnect it in parallel with the other 10uF. Then see what DC voltages you get when drawing currents between 120 and 230mA. If it is near enough to the 370v you require, then add suitable resistors to deliver the other supply voltages and currents you've specified and you've got what you need.

From 7373192643038927973
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 20 Apr 2007 07:55:33 -0500
Date: Fri, 20 Apr 2007 08:55:27 -0400
From: NoMoreSpam <Disgustedham@qrparci.org>
User-Agent: Thunderbird 1.5.0.5 (X11/20060719)
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
References: <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org>
<4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
<nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net> <f07a0m$eob$1@aioe.org>
<CjNVh.1648$mk4.948@newsfe4-win.ntli.net>
<4627b084$0$29219$dbd49001@news.wanadoo.nl>
<rjcf23liderou43uobothkatp1qruskqe1@4ax.com>
<4ZOdnWnsCZsEIrrbnZ2dnUVZ_iydnZ2d@comcast.com>
<evqg231dalnsv9r8mf48ovgkft53b8i2ak@4ax.com>
In-Reply-To: <evqg231dalnsv9r8mf48ovgkft53b8i2ak@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <reKdnU10rNnbJbXbnZ2dnUVZ_jOdnZ2d@comcast.com>
Lines: 9
NNTP-Posting-Host: 76.98.105.37
X-Trace: sv3-
OFfSdBSPcYUxNFgBEET3QJJY2x8vW4HJQYx4QqXVy8q7jjBqL7A8cI1XRS8s0CWeBfYE8MEeTi8x2zn!
2KSY9pB45us+2476XC0Y/Fp9A68oR449X87efL7lnhfTQZ1OBmm3BldWtEnyYKQ63v8+Ih710fro!
ydRrgxGzRfs6SU6aDrgl43vOKy/x
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com uk.radio.amateur:110109 rec.radio.amateur.homebrew:13055

Spike wrote:
> NoMoreSpam wrote:
>
>> Watching these Brits make asses of themselves makes me proud to be an American!
>
> Remind me again how democracy is progressing in Iraq.

Trying help those people WAS a mistake. They should have been nuked back to the stone age.

```
From 3996253442655023814
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Thread: fc8b1,288b3a2c51615653
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
216.168.1.162.MISMATCH!sn-xt-sjc-02!sn-xt-sjc-08!sn-xt-sjc-01!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Homebrew 11 tube CB receiver info wanted
Date: Fri, 20 Apr 2007 08:13:46 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <132hf5kkepomec6@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
<fqWdnVF14K3aaLvbnZ2dnUVZ_qKqnZ2d@comcast.com> <f081rl$ndo$1@theodyn.ncf.ca>
<1176998911.434688.154890@n59g2000hsh.googlegroups.com>
<f087u9$4k0$1@panix2.panix.com> <2rqdnY-D0NtmA7XbnZ2dnUVZ8sjinZ2d@pipex.net>
In-Reply-To: <2rqdnY-D0NtmA7XbnZ2dnUVZ8sjinZ2d@pipex.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 15
Xref: g2news1.google.com rec.radio.amateur.homebrew:13056
rec.radio.amateur.boatanchors:11355
```

Highland Ham wrote:
>>
>> I thought building a kit CB transceiver was illegal due to the type
>> acceptance issue?
>
> ===
> Building a CB 'receiver' from a kit can't be illegal.
>

Surely there are those amongst us that built 27MHz walkie-talkie
kits from Allied (Knight) and others in the 1960's...

Regards,

Michael

From -7353270360514201842

X-Google-Thread: fc2a5,74146c4ef100f57a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 20 Apr 2007 08:20:19 -0500
Date: Fri, 20 Apr 2007 14:20:16 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.2) Gecko/
20070222 SeaMonkey/1.1.1
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: help needed on hi-V power supply circuit
References: <1177042690.411155.283850@y5g2000hsa.googlegroups.com>
<4628a729$0$8715$ed2619ec@ptn-nntp-reader02.plus.net>
In-Reply-To: <4628a729$0$8715$ed2619ec@ptn-nntp-reader02.plus.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <r62dnZXmdpaJI7XbRVnyggA@pipex.net>
Lines: 42
NNTP-Posting-Host: 85.210.13.1
X-Trace: sv3-Mo1uMp4yWIwUH7tOdAF142hSt/
Ee6aTpQHsVNue18c8OSRY3xzU7m11r26OJcV8qQkosmilvpwhTBoh!iN0Wx6qmLAQC0G/
vVCgNnEnKQZve0HoKo8i7WEp5Mei9rKnQlXlMcpIhL5upBtkAbogHVX3GS4n0!X1dEQJG0HM0=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:13057

John A wrote:
>> unfortunately, the voltage is a bit too high- it puts out ~520VDC
>> (after a 3-pole filter 10uF/10H/10uF with 40kOhm bleeder
>> resistor). I am looking for some ways to bring this down to the
>> voltage I need.
>>
>
> As a first, simple, experiment disconnect the 10uF nearest the rectifier and
> reconnect it in parallel with the other 10uF. Then see what DC voltages you
> get when drawing currents between 120 and 230mA. If it is near enough to the
> 370v you require, then add suitable resistors to deliver the other supply
> voltages and currents you've specified and you've got what you need.

=====================================
Suggest you have a look in the ARRL magazine QEX ,July/August 1999 ,
pages 51 through 55.
"A regulated 2400V Power Supply" , by VE6AXW

In this supply unit the output voltage is controlled by silicon
controlled rectifiers (SRCs) in the primary (120 or 230 V) winding

The principle of this scheme can be readily used for your 370V-DC power supply .
The output voltage can be set to any voltage lower than the one provided by the rectifier(bridge) in the secondary winding at the full supply voltage to the primary winding.

For the other 2 lower voltages you need you can use a zener diode /resistor arrangement with or without a high voltage (use low cost 1500 V type)transistor if you really need a constant voltage at varying load.
Otherwise the lower voltages can be obtained from resistors, as per a previous message in this thread.

The transformer must of course be able to supply the total current you need.
If you don't know the max current which can be drawn from the transformer , you first measure the no-load output voltage and subsequently load the secondary winding with suitable resistors until the voltage has dropped by 5% The relevant current can then be taken as the maximum for the transformer (practical approach)
The max current check can of course also be done with the rectifier(bridge) connected (DC measurement)

Frank   GM0CSZ / KN6WH

From 3682439763341537894
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news02.roc.ny.POSTED!fd24bd7a!
not-for-mail
From: gwatts <gwatts@frontiernet.net>
User-Agent: Mozilla Thunderbird 1.0.6 (Windows/20050716)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
References: <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org>
<4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
<nxtVh.2113$Ca7.1638@newsfe3-win.ntli.net> <f07a0m$eob$1@aioe.org>
<CjNVh.1648$mk4.948@newsfe4-win.ntli.net>
<4627b084$0$29219$dbd49001@news.wanadoo.nl>
<rjcf23liderou43uobothkatp1qruskqe1@4ax.com>
<4ZOdnWnsCZsEIrrbnZ2dnUVZ_iydnZ2d@comcast.com>
<evqg231dalnsv9r8mf48ovgkft53b8i2ak@4ax.com>
In-Reply-To: <evqg231dalnsv9r8mf48ovgkft53b8i2ak@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 13

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Message-ID: <Z93Wh.7110$ya1.5443@news02.roc.ny>
X-Complaints-To: abuse-news@frontiernet.net
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a2d644eeefdd4c753b039548337079466ad0568bf6c04a9248ee91d7b3ac6e784e6d77da1e4de705b7
b4c69170fe703c34e1444ffc2bdb42f0d5a69b1119ea7647f18c27c01d97984e46af0763efb6c7d8bf
dfa5da50e4
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Fri, 20 Apr 2007 13:24:09 UTC
Date: Fri, 20 Apr 2007 13:24:09 GMT
Xref: g2news1.google.com uk.radio.amateur:110116 rec.radio.amateur.homebrew:13058
```

Spike wrote:

> NoMoreSpam wrote:
>
>
>>Watching these Brits make asses of themselves makes me proud to be an American!
>
>
> Remind me again how democracy is progressing in Iraq.

Funny, coming from someone in a country that invaded Iraq in WW1, 1941
and basically set up the whole region to become what it is today.

Blame can be cast everywhere, how about casting some solutions for a change?

```
From -5690485939333349142
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.karotte.org!
news2.arglkargh.de!news.cnetm.de!news.mb-net.net!open-news-network.org!aioe.org!
not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Fri, 20 Apr 2007 14:47:29 +0100
Organization: Aioe.org NNTP Server
Lines: 54
Message-ID: <f0ag9h$83b$1@aioe.org>
References: <evvkn4$236$1@aioe.org> <f0a008$4lt$1@aioe.org>
<s6nvm.7hv.19.1@news.alt.net>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
```

Xref: g2news1.google.com uk.radio.amateur:110117 rec.radio.amateur.homebrew:13059

I have long suspected that "Smiffy" is the name by which
Mr.Nugatory posts when at school, with carefully checked
spelling to put us all off the scent.

The times of posting by "Smiffy" since appearing last November
are commensurate with that of a school-teacher.

Both the subject matter and also the style of language, (in
particular the condescending manner of an arrogant and
deficient personality), in the below are so similar to that
of Mr.Nugatory, that I am now convinced that "Smiffy" is,
indeed, none other than our very own Mr.Nugatory, M3OSN!

What better way after running away and hiding to sneak
back in under an assumed ID?!

"Smiffy" <Smiffy@?.?> wrote in message news:s6nvm.7hv.19.1@news.alt.net...
wrote:
>> Is anybody interested in such a project and prepared
>> to join with _REALISTIC_ non-nugatory support?
>
> I am sure that many people would be happy to join in the project, once
> they see that you are serious about it and have a good idea of the scope
> that you intend. Why not sketch out some rough ideas, block diagrams
> suggesting which biscuits would be needed initially (ideally I'd guess
> some building blocks which could be useful in their own right - e.g.
> VFO, amplifiers etc.), together with a proposal for how they should
> connect together - some kind of standardised backplane, a connector
> stack arrangement similar in concept to PC/104
> (http://www.pc104.org/technology/PDF/PC104%20Spec%20v2_5.pdf), something
> different entirely?
>
> What are you really thinking of here? Is it as simple as "every biscuit
> shall be either a Xcm * Ycm, or half sized X/2cm * Ycm" and allow free
> reign on electrical interfaces, or try to work out some kind of standard
> for general interface levels and protocols between biscuits?
>
> How do you envision the project being managed? What kind of
> collaboration methods would you use?
>
> The idea is sound, but to spark enthusiasm perhaps you should offer a
> little more than "Hey guys, let's build a radio". Collaborative projects
> either need a strong lead or a good previous track record of similar
> work. Even then take time to get going until people can see where you
> are heading and that they agree with it and feel they can be a useful
> part of the project. Throw some basics together, put a bit of flesh on
> your proposal, and I'm sure you'll get more people interested. It may
> well end up being you doing it on your own until the first biscuits are
> designed, but then it should gain momentum. Regularly publish what you
> are doing and where you are up to; a simple technical report and
> ignoring those who would shout you down (or a simple technical response,

> not falling down to "stupid boy" name calling) should gain you support.

From 8656706455488870265
X-Google-Thread: fc2a5,288b3a2c51615653
X-Google-Thread: fc8b1,288b3a2c51615653
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews6.bellsouth.net.POSTED!cd3bd447!not-for-mail
From: Randy or Sherry Guttery <comcents@bellsouth.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Homebrew 11 tube CB receiver info wanted
References: <1176954385.065401.253350@n59g2000hsh.googlegroups.com>
<fqWdnVF14K3aaLvbnZ2dnUVZ_qKqnZ2d@comcast.com> <f081rl$ndo$1@theodyn.ncf.ca>
<1176998911.434688.154890@n59g2000hsh.googlegroups.com>
<f087u9$4k0$1@panix2.panix.com> <2rqdnY-D0NtmA7XbnZ2dnUVZ8sjinZ2d@pipex.net>
<132hf5kkepomec6@corp.supernews.com>
In-Reply-To: <132hf5kkepomec6@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 30
Message-ID: <IP3Wh.7297$Pq5.609@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcbofcpocnkhhiopikheandgjlkjoabkleenhg
bagololonmafgibbcjaklopoflbnfcfeehjgilmlgfdoiiohlijdcgkgmgaacfomlgcccebcdfdbbm
NNTP-Posting-Date: Fri, 20 Apr 2007 10:08:40 EDT
Organization: BellSouth Internet Group
Date: Fri, 20 Apr 2007 09:08:39 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:13060
rec.radio.amateur.boatanchors:11356

msg wrote:

> Surely there are those amongst us that built 27MHz walkie-talkie
> kits from Allied (Knight) and others in the 1960's...

Back in the '60's - I was building AM broadcast transmitters, not CBs - however - here in ought 7 - I have a 1962 Allied catalog in which the back section is a KnightKit catalog. On page 408 there is a C-11 Citizens Band Transceiver Kit ($39.95). It transmits on any 1 of 22 CB channels depending on crystal installed, and it manually tunes all 22 CB channels. It does not list the tubes, but does note it's a superhet.

On the next page is a model C-27 Deluxe Transceiver Kit - for reception it too manually tunes all 22 channels - plus has provisions for two crystal controlled channels. The same switch also selects one of two transmit frequencies. This is a dual conversion receiver, and while it again does not list the tube compliment - it does say "7 dual-purpose tubes, 2 single-purpose tubes, VR and rectifier". Since it mentions regulated supplies for the oscillators, pretty sure that's the "VR". $79.95 plus 2nd crystals - $1.95 each (transmit or receive, specify channel).

best regards...
--
randy guttery

A Tender Tale - a page dedicated to those Ships and Crews
so vital to the United States Silent Service:
http://tendertale.com

From -5266911888071331964
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out02a.usenetserver.com!news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!pd7cy1no!shaw.ca!news.alt.net
From: Smiffy <Smiffy@?.?>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Fri, 20 Apr 2007 15:11:42 +0100
Organization: none
Lines: 81
Message-ID: <s7780.v54.19.1@news.alt.net>
References: <evvkn4$236$1@aioe.org> <f0a008$4lt$1@aioe.org> <s6nvm.7hv.19.1@news.alt.net> <f0ag9h$83b$1@aioe.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
In-Reply-To: <f0ag9h$83b$1@aioe.org>
Xref: g2news1.google.com uk.radio.amateur:110119 rec.radio.amateur.homebrew:13061

G.A.Evans G4SDW wrote:
> I have long suspected that "Smiffy" is the name by which
> Mr.Nugatory posts when at school, with carefully checked
> spelling to put us all off the scent.

I'll take the comment on my spieling chequer as a complement :-)

>
> The times of posting by "Smiffy" since appearing last November

> are commensurate with that of a school-teacher.
>
> Both the subject matter and also the style of language, (in
> particular the condescending manner of an arrogant and
> deficient personality), in the below are so similar to that
> of Mr.Nugatory, that I am now convinced that "Smiffy" is,
> indeed, none other than our very own Mr.Nugatory, M3OSN!

Sorry, not even close (spatially, politically or employment wise)

>
> What better way after running away and hiding to sneak
> back in under an assumed ID?!

I posted a helpful reply, with some useful suggestions and a request for more information about your technical and project management expectations. This is _your_ project, how do you envisage it working technically, how will you raise enthusiasm from volunteers and and how will the project be run?

Those are serious questions, that anyone interested in collaborating with you would want an answer to. You are asking for potentially a lot of investment in time from others, which many would freely give if you can show that you too have the commitment to follow through. At the moment I see nothing more than the glimmer of a potentially great idea from you. Will you drive it forward to a successful conclusion, or will you let it drop complaining that no-one would help yet rejecting any suggestions you get?

Why not re-read my words below in a calm manner? They were not written in any kind of vindictive or spiteful manner, they are purely intended as constructive suggestions from someone who has worked on many collaborative projects involving people who live far apart.

>
> "Smiffy" <Smiffy@?.?> wrote in message news:s6nvm.7hv.19.1@news.alt.net...
> wrote:
>>> Is anybody interested in such a project and prepared
>>> to join with _REALISTIC_ non-nugatory support?
>> I am sure that many people would be happy to join in the project, once
>> they see that you are serious about it and have a good idea of the scope
>> that you intend. Why not sketch out some rough ideas, block diagrams
>> suggesting which biscuits would be needed initially (ideally I'd guess
>> some building blocks which could be useful in their own right - e.g.
>> VFO, amplifiers etc.), together with a proposal for how they should
>> connect together - some kind of standardised backplane, a connector
>> stack arrangement similar in concept to PC/104
>> (http://www.pc104.org/technology/PDF/PC104%20Spec%20v2_5.pdf), something
>> different entirely?
>>
>> What are you really thinking of here? Is it as simple as "every biscuit
>> shall be either a Xcm * Ycm, or half sized X/2cm * Ycm" and allow free
>> reign on electrical interfaces, or try to work out some kind of standard

>> for general interface levels and protocols between biscuits?
>>
>> How do you envision the project being managed? What kind of
>> collaboration methods would you use?
>>
>> The idea is sound, but to spark enthusiasm perhaps you should offer a
>> little more than "Hey guys, let's build a radio". Collaborative projects
>> either need a strong lead or a good previous track record of similar
>> work. Even then take time to get going until people can see where you
>> are heading and that they agree with it and feel they can be a useful
>> part of the project. Throw some basics together, put a bit of flesh on
>> your proposal, and I'm sure you'll get more people interested. It may
>> well end up being you doing it on your own until the first biscuits are
>> designed, but then it should gain momentum. Regularly publish what you
>> are doing and where you are up to; a simple technical report and
>> ignoring those who would shout you down (or a simple technical response,
>> not falling down to "stupid boy" name calling) should gain you support.
>
>

```
From -8121655488768272199
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-
mail
From: "Arv" <arvid.evans@gmail.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: 16 Apr 2007 07:41:26 -0700
Organization: http://groups.google.com
Lines: 63
Message-ID: <1176734486.165333.91580@q75g2000hsh.googlegroups.com>
References: <evvkn4$236$1@aioe.org>
   <Pine.NEB.4.64.0704160912490.19214@panix1.panix.com>
NNTP-Posting-Host: 71.32.182.171
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176734486 1578 127.0.0.1 (16 Apr 2007 14:41:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 16 Apr 2007 14:41:26 +0000 (UTC)
In-Reply-To: <Pine.NEB.4.64.0704160912490.19214@panix1.panix.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.3) Gecko/
20060601 Firefox/2.0.0.3 (Ubuntu-edgy),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q75g2000hsh.googlegroups.com; posting-host=71.32.182.171;
   posting-account=j8G-ZQ0AAAArGSmSv5U2nhz6Vo5TeLQN
Xref: g2news1.google.com uk.radio.amateur:109415 rec.radio.amateur.homebrew:12961
```

On 16 Apr, 07:16, Straydog <a...@panix.com> wrote:

> On Mon, 16 Apr 2007, G.A.Evans G4SDW wrote:
> > I wonder if we who are the Usenet-frequenting Radio
> > Hams might somehow get together to sort out the
> > dreadful mess that has been created in no small
> > part by the self-interest of those who control
> > the RSCB?
>
> > Might we all act together to produce a series
> > of "biscuits" that could then be assembled
> > Lego-like fashion to produce any rig or test
> > equipment?
>
> FWIW (pardon me) but I recognize what you are talking about as "descrete
> devices" (i.e. tubes, transistors, resistors, capacitors, etc.).
>
>   This would have a number of benefits,
>
> > not the least of which would be the bankrupting
> > of the cancerous emporia whose off-the-shelf
> > Cheque-Book (CB) radios are not only discouraging
> > the homebrew engineering that is the essence
> > of _REAL_ Ham Radio but also encouraging an
> > altogether undesirable element to regard
> > themselves as of our ranks.
>
> I think all that store-bought stuff just dumbs-down the brains of people
> who would be better off building their own, leanring something, and
> sharpening their wits in the process.
>
>   Once the advertising
>
> > income from those dead emporia ceased to flow,
> > then the national societies might get back
> > to supporting technical excellence instead
> > of Complete Bullshit (CB)
>
> Hey, that's a great acronym for CB (or vice versa)!
>
>   as they do now?
>
>
>
> > (And, no, I'm not thinking in terms of the facile
> > hardware exercises that bring on the disease known
> > as the gangrenous degeneration that is the M3/CB
> > Fools' Licence scheme; facile because once a
> > so-called "licence" has been granted the hardware
> > diversion is largely forgotten.)
>
> We've also got too many "keyboard potatoes," too!

G4SDW & "Straydog"

There are many groups on the Internet that are devoted to homebrewing their own ham radio equipment. They run the full gamut of interests from old valve type equipment to the latest in microprocessors and microwave component based projects. You are welcome to join and participate in these groups.

Arv - K7HKL

From -2323869085603609159
X-Google-Thread: fc2a5,b5686cf3db34f35e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-04!sn-ams!sn-feed-ams-03!sn-post-ams-01!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sanyo LA1205 Datasheet Needed
Date: Mon, 16 Apr 2007 12:16:02 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1327bsvea5o7tc3@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
References: <1321qq7l0ofed05@corp.supernews.com> <YHKUh.2643$VT3.1547@newsfe6-gui.ntli.net>
In-Reply-To: <YHKUh.2643$VT3.1547@newsfe6-gui.ntli.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 16
Xref: g2news1.google.com rec.radio.amateur.homebrew:12962

Russell King wrote:

> http://www.worldlingo.com/en/products_services/worldlingo_translator.html
> does translation from Japanese and Chinese.
> Russ.
>

Thanks for the reply; is this RMK Russell King?

Unfortunately, the Japanese datasheet is a pdf of the scanned original and contains no text so I will need to find someone who can eyeball it to do the translation.

Regards,

Michael

From 4137599000873095861
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!ndsoftware.com!
194.168.222.133.MISMATCH!news-out.ntli.net!newsrout1-gui.ntli.net!ntli.net!
news.highwinds-media.com!newspeer1-win.ntli.net!newsfe2-win.ntli.net.POSTED!
53ab2750!not-for-mail
From: "Brian Reay" <see@website.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <evvkn4$236$1@aioe.org>
Subject: Re: Putting the Ham back into Ham Radio?
Lines: 26
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <pEOUh.1757$771.914@newsfe2-win.ntli.net>
Date: Mon, 16 Apr 2007 17:47:01 GMT
NNTP-Posting-Host: 82.14.65.40
X-Complaints-To: http://www.virgin.net/netreport
X-Trace: newsfe2-win.ntli.net 1176745621 82.14.65.40 (Mon, 16 Apr 2007 18:47:01 BST)
NNTP-Posting-Date: Mon, 16 Apr 2007 18:47:01 BST
Organization: Virgin Net Usenet Service
Xref: g2news1.google.com uk.radio.amateur:109443 rec.radio.amateur.homebrew:12963

"G.A.Evans G4SDW" <me@privacy.net> wrote in message
news:evvkn4$236$1@aioe.org...

> Might we all act together to produce a series
> of "biscuits" that could then be assembled
> Lego-like fashion to produce any rig or test
> equipment?

A truely excellent idea Gareth.

Why don't you rough out a plan and design a few of these "biscuits" and
publish them on a website or maybe in one of the various journals that
support the hobby.

Good luck and I look forward to seeing your first designs.

--
73
Brian, G8OSN

www.g8osn.org.uk

Now your amateur licence is free, why not send at least �15 per year to
support the
Radio Communications Foundation or STELAR?

```
From -4539608179671812642
X-Google-Thread: fcc6e,509288ecae82bb36,start
X-Google-Thread: fc2a5,509288ecae82bb36,start
X-Google-Attributes: gidfcc6e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o5g2000hsb.googlegroups.com!not-for-
mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Book (and software) sale
Date: 16 Apr 2007 10:59:46 -0700
Organization: http://groups.google.com
Lines: 20
Message-ID: <1176746386.038779.60720@o5g2000hsb.googlegroups.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176746387 7350 127.0.0.1 (16 Apr 2007 17:59:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 16 Apr 2007 17:59:47 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.11)
Gecko/20070312 Firefox/1.5.0.11,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o5g2000hsb.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news1.google.com rec.radio.amateur.antenna:39766
rec.radio.amateur.homebrew:12964
```

Hi all,

Just got an email from SciTech Publishing about a sale linked to their 10th anniversary. Some reading this group might be interested. From their home page at http://www.scitechpub.com/, click on the link just below the banner, "RadarCon 2007 - Take advantage of our special conference prices. "

Though it's mainly books, you can also pick up WinSMITH 2.0 for $89 insead of their usual $125, I think it is, which is a discount from the "list" price of $149. There are quite a few books with "antenna" or "antennas" in the title, though most are a bit esoteric for ham use, and there are some "receiver" books. The discount is 40% from their usual prices for SciTec and Nobel titles, and 15% for others. The 15% may not be very exciting, but the 40% seems worthwhile if it's something you're looking for.

Cheers,
Tom

From 7825735832915720784
X-Google-Thread: fc2a5,6491fc79c8444578
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Reply-To: "Wim Ton" <wton@bluewin.ch>
From: "Wim Ton" <wton@bluewin.ch>
Newsgroups: rec.radio.amateur.homebrew
References: <1176692129.533911.18560@n76g2000hsh.googlegroups.com>
Subject: Re: RFID FAQs - RFID Companies, Equipment, Medical ...
Date: Mon, 16 Apr 2007 20:12:43 +0200
Lines: 14
Organization: thuis
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1437
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1441
NNTP-Posting-Host: 83.77.179.168
X-Original-NNTP-Posting-Host: 83.77.179.168
Message-ID: <4623bc98$1_1@news.bluewin.ch>
X-Trace: news.bluewin.ch 1176747160 83.77.179.168 (16 Apr 2007 20:12:40 +0200)
Complaints-To: abuse@bluewin.ch
X-Original-NNTP-Posting-Host: 127.0.0.1
Path: g2news1.google.com!news2.google.com!news.glorb.com!wns13feed!
worldnet.att.net!164.128.36.58!news.ip-plus.net!newsfeed.ip-plus.net!
news.bluewin.ch!not-for-mail
Xref: g2news1.google.com rec.radio.amateur.homebrew:12965

"market" <email2market@gmail.com> wrote in message
news:1176692129.533911.18560@n76g2000hsh.googlegroups.com...
> Find information on RFID companies, RFID equipment, and the medical
> advantages of RFID technology. Learn about RFID equipment produced by
> the leading RFID ...
>
> http://flying-rugs.com/rfid-tutorial/
>

IMHO the entries in Wikipedia are better.

Wim

From 3601274143044827294
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe

```
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!feeder3.cambrium.nl!feeder1.cambrium.nl!
feed.tweaknews.nl!news2.euro.net!postnews2.euro.net!news.wanadoo.nl!not-for-mail
Date: Mon, 16 Apr 2007 20:20:49 +0200
From: know code <know_code@wanadoo.nl>
Reply-To:  "know code"@invalid_address.com
User-Agent: Thunderbird 1.5.0.10 (X11/20070221)
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
References: <evvkn4$236$1@aioe.org> <pEOUh.1757$771.914@newsfe2-win.ntli.net>
In-Reply-To: <pEOUh.1757$771.914@newsfe2-win.ntli.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: quoted-printable
Lines: 19
Message-ID: <4623be82$0$21107$dbd43001@news.wanadoo.nl>
Organization: Wanadoo
NNTP-Posting-Date: 16 Apr 2007 18:20:50 GMT
NNTP-Posting-Host: s5591cd23.adsl.wanadoo.nl
X-Trace: 1176747650 dr2.euro.net 21107 85.145.205.35:17218
X-Complaints-To: abuse@wanadoo.nl
Xref: g2news1.google.com uk.radio.amateur:109452 rec.radio.amateur.homebrew:12966

Brian Reay wrote:

> Why don't you rough out a plan and design a few of these "biscuits" and=
=20
> publish them on a website or maybe in one of the various journals that =

> support the hobby.

So, not RadComic then!

--=20
ARRL membership =3D $39 (~=A320)
RSGB membership =3D =A344

Don't let them rip you off any more.
Do the right thing, resign from the RSGB today.

The RSGB said Radio Amateurs were a threat to national security!
Is this the type of organisation you want to represent you?


From 3598843768580339625
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
```

```
NNTP-Posting-Date: Mon, 16 Apr 2007 14:45:11 -0500
Date: Mon, 16 Apr 2007 19:45:56 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/
20060910 SeaMonkey/1.0.5
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
References: <evvkn4$236$1@aioe.org> <pEOUh.1757$771.914@newsfe2-win.ntli.net>
<4623be82$0$21107$dbd43001@news.wanadoo.nl>
In-Reply-To: <4623be82$0$21107$dbd43001@news.wanadoo.nl>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <vpidnRHsToDVT77bnZ2dnUVZ8vednZ2d@pipex.net>
Lines: 19
NNTP-Posting-Host: 85.210.51.158
X-Trace: sv3-WGeMlXQ/
C2WH7B8Y4bGgrl64+UCDWv2ssiAcpQMx1OEWvMmbT2QtdRKKjS+hdavQ3O2cZGI9IBpdOkx!
jcy0zM7nc5PMCfdbLGddU9mVPYXG5loJ1IcL66hdpoFMUxx2kB2iHo39HUDAqD79T6GiWSbCEMl+!
5DcTLqQoaLtOqqXD1IZsWKaVOQ==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com uk.radio.amateur:109465 rec.radio.amateur.homebrew:12967

know code wrote:
> Brian Reay wrote:
>
>> Why don't you rough out a plan and design a few of these "biscuits"
>> and publish them on a website or maybe in one of the various journals
>> that support the hobby.
>
> So, not RadComic then!
==============================================
Well,...Eamon Skelton ,EI9GQ is doing exactly that already..in his
HOMEBREW column in ........... RADCOM.

and  George Dobbs , G3RJV has a similar column in Practical Wireless.

I am sure G4SDW knows that.


Frank   GM0CSZ / KN6WH




From 3980249799109276105
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p77g2000hsh.googlegroups.com!not-for-mail
From: "Mike Gathergood, G4KFK" <mike.gathergood@googlemail.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: 16 Apr 2007 12:52:56 -0700
Organization: http://groups.google.com
Lines: 25
Message-ID: <1176753176.158421.72020@p77g2000hsh.googlegroups.com>
References: <evvkn4$236$1@aioe.org><pEOUh.1757$771.914@newsfe2-win.ntli.net>
   <4623be82$0$21107$dbd43001@news.wanadoo.nl>
   <vpidnRHsToDVT77bnZ2dnUVZ8vednZ2d@pipex.net>
NNTP-Posting-Host: 82.0.190.39
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176753176 18660 127.0.0.1 (16 Apr 2007 19:52:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 16 Apr 2007 19:52:56 +0000 (UTC)
In-Reply-To: <vpidnRHsToDVT77bnZ2dnUVZ8vednZ2d@pipex.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p77g2000hsh.googlegroups.com; posting-host=82.0.190.39;
   posting-account=fTcdIQ0AAAC07gA1BA9FOc-RumYX4ZMS
Xref: g2news1.google.com uk.radio.amateur:109469 rec.radio.amateur.homebrew:12968

On 16 Apr, 19:45, Highland Ham <abcgm0csz.kn6wh...@dsl.pipex.com>
wrote:
> know code wrote:
> > Brian Reay wrote:
>
> >> Why don't you rough out a plan and design a few of these "biscuits"
> >> and publish them on a website or maybe in one of the various journals
> >> that support the hobby.
>
> > So, not RadComic then!
>
> ==
> Well,...Eamon Skelton ,EI9GQ is doing exactly that already..in his
> HOMEBREW column in .... RADCOM.
>
> and George Dobbs , G3RJV has a similar column in Practical Wireless.
>
> I am sure G4SDW knows that.
>
> Frank   GM0CSZ / KN6WH

March's RadCom had a QRP transceiver with just 11 biscuits. None of
the biscuits had E numbers, and only one had silicon.

From 2442501408398741785
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!feeder3.cambrium.nl!feeder5.cambrium.nl!feed.tweaknews.nl!68.142.88.75.MISMATCH!hwmnpeer01.ams!news-out.ntli.net!newsrout1-gui.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!newsfe3-win.ntli.net.POSTED!53ab2750!not-for-mail
From: "Brian Reay" <see@website.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <evvkn4$236$1@aioe.org> <pEOUh.1757$771.914@newsfe2-win.ntli.net> <4623be82$0$21107$dbd43001@news.wanadoo.nl> <vpidnRHsToDVT77bnZ2dnUVZ8vednZ2d@pipex.net>
Subject: Re: Putting the Ham back into Ham Radio?
Lines: 43
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <RJQUh.383$Ca7.20@newsfe3-win.ntli.net>
Date: Mon, 16 Apr 2007 20:09:21 GMT
NNTP-Posting-Host: 82.27.238.164
X-Complaints-To: http://www.virginmedia.com/netreport
X-Trace: newsfe3-win.ntli.net 1176754161 82.27.238.164 (Mon, 16 Apr 2007 21:09:21 BST)
NNTP-Posting-Date: Mon, 16 Apr 2007 21:09:21 BST
Organization: ntl Virgin ADSL News Service
Xref: g2news1.google.com uk.radio.amateur:109477 rec.radio.amateur.homebrew:12969

"Highland Ham" <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote in message
news:vpidnRHsToDVT77bnZ2dnUVZ8vednZ2d@pipex.net...
>>
>>> Why don't you rough out a plan and design a few of these "biscuits" and
>>> publish them on a website or maybe in one of the various journals that
>>> support the hobby.

> Well,...Eamon Skelton ,EI9GQ is doing exactly that already..in his
> HOMEBREW column in .... RADCOM.
>
> and George Dobbs , G3RJV has a similar column in Practical Wireless.
>
> I am sure G4SDW knows that.

> Frank   GM0CSZ / KN6WH

Maybe he does know it but that doesn't mean the idea is not a good one.
Truely new ideas are few and far between. I've come across it before as a
suggested way to cope with component obsolesce issues in long service life

applications- a chap I used to work with coined the idea of "tokens" (as I recall). Basically the idea was a library of circuit building blocks that could be assembled to make a larger circuit. If a particular part could no longer be obtained, a new "token" could be designed with a defined interface and functionality.

A sound idea but not an easy project. However, if Gareth can get something rolling, maybe expanding on Eamon's and/or George's ideas, so much the better. I'd not knock the idea, quite the converse.

So get rolling Gareth, let us see some of your ideas on the web or in Sprat, etc.

--
73
Brian, G8OSN
www.g8osn.org.uk

Now your amateur licence is free, why not send at least �15 per year to
support the
Radio Communications Foundation or STELAR?

```
From -7829030434786763854
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d57g2000hsg.googlegroups.com!not-for-
mail
From: "Richard G3CWI" <G3cwi@tesco.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: 16 Apr 2007 13:27:10 -0700
Organization: http://groups.google.com
Lines: 13
Message-ID: <1176755230.883832.140540@d57g2000hsg.googlegroups.com>
References: <evvkn4$236$1@aioe.org><pEOUh.1757$771.914@newsfe2-win.ntli.net>
   <4623be82$0$21107$dbd43001@news.wanadoo.nl>
   <vpidnRHsToDVT77bnZ2dnUVZ8vednZ2d@pipex.net>
   <RJQUh.383$Ca7.20@newsfe3-win.ntli.net>
NNTP-Posting-Host: 86.148.0.117
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176755231 30761 127.0.0.1 (16 Apr 2007 20:27:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 16 Apr 2007 20:27:11 +0000 (UTC)
In-Reply-To: <RJQUh.383$Ca7.20@newsfe3-win.ntli.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.02 (Windows NT 5.1; U; en),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
```

Injection-Info: d57g2000hsg.googlegroups.com; posting-host=86.148.0.117;
   posting-account=HOcO0AsAAAD8n7TuJax7-3_Df8x3nwuS
Xref: g2news1.google.com uk.radio.amateur:109481 rec.radio.amateur.homebrew:12970

On 16 Apr, 21:09, "Brian Reay" <s...@website.invalid> wrote:

> So get rolling Gareth, let us see some of your ideas on the web or in >Sprat,

The seminal book "Solid State Design for the Radio Amateur" (1977) by
Haywood et al had pages of circuit snippets. I also think that PW do
boards for different radio modules. I suppose one might envisage a
sort of mother-board into which modules might be inserted to allow
different designs to be built up? I am not convinced that the idea
will go far though. It is quite easy to breadboard almost anything on
double sided pcb quickly and easily.

From -8923791373695676151
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!feeder3.cambrium.nl!feeder1.cambrium.nl!
feed.tweaknews.nl!news2.euro.net!62.253.162.218.MISMATCH!news-in.ntli.net!
newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe5-win.ntli.net.POSTED!53ab2750!not-for-mail
From: "Brian Reay" <see@website.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <evvkn4$236$1@aioe.org><pEOUh.1757$771.914@newsfe2-win.ntli.net>
<4623be82$0$21107$dbd43001@news.wanadoo.nl>
<vpidnRHsToDVT77bnZ2dnUVZ8vednZ2d@pipex.net>   <RJQUh.383$Ca7.20@newsfe3-
win.ntli.net> <1176755230.883832.140540@d57g2000hsg.googlegroups.com>
Subject: Re: Putting the Ham back into Ham Radio?
Lines: 34
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <u4RUh.970$537.747@newsfe5-win.ntli.net>
Date: Mon, 16 Apr 2007 20:33:30 GMT
NNTP-Posting-Host: 82.27.238.164
X-Complaints-To: http://www.virginmedia.com/netreport
X-Trace: newsfe5-win.ntli.net 1176755610 82.27.238.164 (Mon, 16 Apr 2007 21:33:30
BST)
NNTP-Posting-Date: Mon, 16 Apr 2007 21:33:30 BST
Organization: ntl Virgin ADSL News Service
Xref: g2news1.google.com uk.radio.amateur:109483 rec.radio.amateur.homebrew:12971

"Richard G3CWI" <G3cwi@tesco.net> wrote in message

```
news:1176755230.883832.140540@d57g2000hsg.googlegroups.com...
> On 16 Apr, 21:09, "Brian Reay" <s...@website.invalid> wrote:
>
>> So get rolling Gareth, let us see some of your ideas on the web or in
>>  >Sprat,
>
>
> The seminal book "Solid State Design for the Radio Amateur" (1977) by
> Haywood et al had pages of circuit snippets. I also think that PW do
> boards for different radio modules. I suppose one might envisage a
> sort of mother-board into which modules might be inserted to allow
> different designs to be built up? I am not convinced that the idea
> will go far though. It is quite easy to breadboard almost anything on
> double sided pcb quickly and easily.
>

True but one advantage of the "biscuit" idea is that you can build and test
them one at a time- ideal for beginners who may be put off by a complex "one
lump" project that they lack the experience to fault find etc.

Really, I think Gareth should run with this idea.

--
73
Brian, G8OSN
www.g8osn.org.uk

Now your amateur licence is free, why not send at least �15 per year to
support the
Radio Communications Foundation or STELAR?




From 1723538270241425073
X-Google-Thread: fc2a5,cf6dd909f3daf044,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe16.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Power Rheostat Question..
Lines: 7
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <QjTUh.521278$Ju2.450125@newsfe16.lga>
Date: Mon, 16 Apr 2007 19:05:35 -0400
NNTP-Posting-Host: 68.0.230.122
```

```
X-Complaints-To: admin@cox.net
X-Trace: newsfe16.lga 1176764784 68.0.230.122 (Mon, 16 Apr 2007 16:06:24 MST)
NNTP-Posting-Date: Mon, 16 Apr 2007 16:06:24 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:12972
```

Does reducing the resistance affect the wattage rating
of a power rheostat? I'd imagine it does, but I'm not
sure how it would be derated..

Pete

```
From -4968785428286164212
X-Google-Thread: fc2a5,5272fafd6d65b5e9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l77g2000hsb.googlegroups.com!not-for-
mail
From: "Jessie" <freshfreefish@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PSPICE frequency ananlysis
Date: 16 Apr 2007 16:08:43 -0700
Organization: http://groups.google.com
Lines: 105
Message-ID: <1176764923.801060.298830@l77g2000hsb.googlegroups.com>
References: <1176476643.603835.64820@d57g2000hsg.googlegroups.com>
   <1176494466.714154.9470@y80g2000hsf.googlegroups.com>
NNTP-Posting-Host: 192.35.98.90
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176764924 23572 127.0.0.1 (16 Apr 2007 23:08:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 16 Apr 2007 23:08:44 +0000 (UTC)
In-Reply-To: <1176494466.714154.9470@y80g2000hsf.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l77g2000hsb.googlegroups.com; posting-host=192.35.98.90;
   posting-account=p4vr1Q0AAAD-64zB697Kz9fHxvdn2YiG
Xref: g2news1.google.com rec.radio.amateur.homebrew:12973
```

On Apr 13, 3:01 pm, "AF6AY" <LenAnder...@ieee.org> wrote:
> On Apr 13, 7:04?am, "Jessie" <freshfreef...@gmail.com> wrote:
>
> > Hi everyone,
>
> > I have a small question aboutPSPICE. I'm usingPSPICEto simulate a
> > colpitts oscillator, and want to know the resonantfrequencyof the
> > circuit. What should I do to set up the simulation condition? I used

> > the transient simulation and FFT hoping to find the spectrum figure,
> > but it seems if I change the time step the spectrum also changes???
> > What should I do now? I'll appreciate any of your help!
>
> > Jessie
>
> I haven't usedPSPICEfor several years and am unacquainted
> with newer versions, preferring the LTSpice free package
> available from Linear Technology Corporation. Both use the
> same SPICE core routines-algorithms so it all depends on
> how the variants "wrap" the core routines for human interfaces.
>
> None of the SPICE variants can yield an "exact"frequency
> of oscillation...but you can come close to that depending on
> how many thousands of repetitive cycles it allows in memory
> and the available memory of your computer. [I would carefully
> check thePSPICEmanual for conditions necessary with
> their "wrapper" controls]
>
> With LTSpice I've not had a problem with oscillator circuit
> simulation start-up...not with starting at t=0 or delayed.
> For example, a 10 MHz crystal oscillator simulation might
> take 50 mSec or thereabouts to reach a stable oscillatory
> condition so one can't expect to see a sinusoid oscillation
> very near 0 time. With L-C tuned oscillators the start-up
> time is sooner than that due to lower Q of L-C versus a
> simulated quartz crystal.
>
> One of the difficult tasks in designing an oscillator circuit
> ON Spice (as opposed to beginning on paper) is obtaining
> proper feedback and the limiting conditions of voltage-current
> swings. There isn't any "easy" answer for that. An
> integrated schematic-net-list function (as in LTSpice) makes
> it easy to twiddle values to get one going. More twiddling
> with values gives one a "feel" for getting the right mix of
> parts values. My suggestion is to do that twiddling of values
> until oscillation is established and seems stable enough with
> supply voltage variations. Once there the measurement
> procedure for actual oscillationfrequencywould be rote work
> of counting of oscillation cycles and their slight phase shifts
> over the time intervals. The first step is insuring there IS an
> oscillation happening.
>
> In the beginning of SPICE (core entirely free from Berkeley)
> it was a #$%^!!! job to introduce some kind of momentary
> transient (or "noise") to disturb the simulation model ("shock"
> it gently if you will) to begin oscillation. Most variants no
> longer need that since their "wrappers" have been modified
> to handle it.
>
> The only question on various SPICE packages is their
> numerical accuracy in regards tofrequencyof oscillation.
> Few packages will say that directly. At minimum the

> simulation calculations would be done with "single precision" equivalent to 7 decimal digit calculation accuracy. Most seem to use "double precision" or 14 decimal digit equivalents so the simulated oscillationfrequencycould be close to 1 part per million for a very large circuit model (worst case with all errors adding up the same worst way).
>
> MOST IMPORTANT of all is the simulation model and its components, including the stray/parasitic parts of each passive component as well as an accurate model of the active parts (transistor, diode, or vacuum tube). Most SPICE variants have a large active component library and those are quite accurate to nominal operation of the real parts. Failure to model the circuit correctly will result in failed results...one just can't cobble together some parts as on the bench and get some kind of action going.
>
> OK, now that I've done the "spanking" [:-)] about basics, it's time to get the model working. Once that is done, the niceties of checking the harmonics is one of the last jobs. The FFT check on harmonics inPSPICEis probably different from LTSpice because the FFT routines are in the "wrapper" of the SPICE routine's core. Those vary depending on the variants program build.
>
> Good luck on your model.
>
> 73, Len AF6AY

Hi Len,

Thank you very much for your detailed explanation on SPICE. I think a very fast way to find the resonant frequency is to know the critical resonant frequency first, and try to find the resonant period which is corresponding to the highest voltage in the plot. After that, you can do a FFT if you're lazy to convert the time period to frequency. Although this is not very accurate, but this is the most direct way to simulate resonant frequency I guess. Hope my final solution is not too coarse...

Jessie

```
From 4714927057328277169
X-Google-Thread: 10c2ee,487d9f359e54290a,start
X-Google-Thread: fc2a5,487d9f359e54290a,start
X-Google-Attributes: gid10c2ee,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w1g2000hsg.googlegroups.com!not-for-
mail
```

From: "shoppa@trailing-edge.com" <shoppa@trailing-edge.com>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
Subject: Mechanically aligning old variable caps?
Date: 16 Apr 2007 17:51:41 -0700
Organization: http://groups.google.com
Lines: 25
Message-ID: <1176771101.039574.94550@w1g2000hsg.googlegroups.com>
NNTP-Posting-Host: 63.73.218.130
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176771101 6925 127.0.0.1 (17 Apr 2007 00:51:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 17 Apr 2007 00:51:41 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Links (1.00pre14; Linux 2.6.13.2 i686;
80x25),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: w1g2000hsg.googlegroups.com; posting-host=63.73.218.130;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com rec.antiques.radio+phono:70956
rec.radio.amateur.homebrew:12974

I have a fair number of medium-sized (i.e. big enough for a 100-watt amp or antenna tuner) variable caps that have one problem:

The spacing of the rotor does not match the spacing of the stator. I can line up the front end to be nicely spaced, but then the back end is too close. Or I can do the back end, and the front end is too close.

I can compromise by choosing a point halfway between the two alignments, but:

Were these old capacitors (many of them from the 20's and 30's) really so poorly constructed that the rotor spacing did not match the stator spacing?

Or is there some long-term "swelling" of the metal parts that results in this misalignment?

I could correct the slightly-off spacing by pulling out the spacers on the rotor and grinding them down just a little bit each (literally, just a thousandth would be too much), but I think there must be something more fundamental that I'm missing :-).

Tim.

From -4582894182152940168
X-Google-Thread: 10c2ee,487d9f359e54290a
X-Google-Thread: fc2a5,487d9f359e54290a
X-Google-Attributes: gid10c2ee,gidfc2a5,public

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe14.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.homebrew
References: <1176771101.039574.94550@w1g2000hsg.googlegroups.com>
Subject: Re: Mechanically aligning old variable caps?
Lines: 36
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <IXUUh.51999$Pi4.24570@newsfe14.lga>
Date: Mon, 16 Apr 2007 20:56:23 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe14.lga 1176771432 68.0.230.122 (Mon, 16 Apr 2007 17:57:12 MST)
NNTP-Posting-Date: Mon, 16 Apr 2007 17:57:12 MST
Organization: Cox
Xref: g2news1.google.com rec.antiques.radio+phono:70959
rec.radio.amateur.homebrew:12975

<shoppa@trailing-edge.com> wrote in message
news:1176771101.039574.94550@w1g2000hsg.googlegroups.com...
>I have a fair number of medium-sized (i.e. big enough for a 100-watt
> amp or antenna tuner) variable caps that have one problem:
>
> > Were these old capacitors (many of them from the 20's and 30's) really
> so poorly constructed that the rotor spacing did not match the stator
> spacing?
>
> Or is there some long-term "swelling" of the metal parts that results
> in this misalignment?
>
> I could correct the slightly-off spacing by pulling out the spacers on
> the rotor and grinding them down just a little bit each (literally,
> just a thousandth would be too much), but I think there must be
> something more fundamental that I'm missing :-).
>
> Tim.
>

Pot metal. It suffers from grain boundary distortion caused
by moisture. The problem is very common in some tuning
caps used in TRF Majestic radios made in the early 1930s.

One problem you'll is that the capacitance will be much
higher than it should be if the plates aren't centered. The

capacitor change isn't linear--that means that equally
shifting the distance between a rotor plate and two
stators from center causes an increase in capacitance.
Intuitively, one would believe the changes would
cancel each other.

Pete k1zjh

From 3786996447366052228
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!news.newsland.it!aioe.org!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Tue, 17 Apr 2007 12:08:17 +0100
Organization: Aioe.org NNTP Server
Lines: 12
Message-ID: <f029r1$6kk$2@aioe.org>
References: <evvkn4$236$1@aioe.org>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:109538 rec.radio.amateur.homebrew:12976

No takers for a joint effort, then?

 <me@privacy.net> wrote in message
news:evvkn4$236$1@aioe.org...
>I wonder if we who are the Usenet-frequenting Radio
> Hams might somehow get together to sort out the
> dreadful mess that has been created in no small
> part by the self-interest of those who control
> the RSCB?

From -2121046777586018214
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.newsland.it!
aioe.org!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Tue, 17 Apr 2007 12:10:09 +0100
Organization: Aioe.org NNTP Server
Lines: 14
Message-ID: <f029uh$763$1@aioe.org>
References: <evvkn4$236$1@aioe.org> <pEOUh.1757$771.914@newsfe2-win.ntli.net>
<4623be82$0$21107$dbd43001@news.wanadoo.nl>
<vpidnRHsToDVT77bnZ2dnUVZ8vednZ2d@pipex.net>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:109539 rec.radio.amateur.homebrew:12977
```

I know it now, but as I read neither BadCon
nor Practically Witless on a regular basis, I
was unaware until your post below.

"Highland Ham" <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote in message
news:vpidnRHsToDVT77bnZ2dnUVZ8vednZ2d@pipex.net...
> Well,...Eamon Skelton ,EI9GQ is doing exactly that already..in his
> HOMEBREW column in .... RADCOM.
>
> and George Dobbs , G3RJV has a similar column in Practical Wireless.
>
> I am sure G-4-S-D-W knows that.

```
From -5975635095349339838
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog2.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-
mail
NNTP-Posting-Date: Tue, 17 Apr 2007 06:10:28 -0500
From: "huLLy" <you@me.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
Subject: Re: Putting the Ham back into Ham Radio?
Date: Tue, 17 Apr 2007 12:10:27 +0100
X-Priority: 3
```

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <rKGdncglk7e4NrnbnZ2dnUVZ8sKlnZ2d@giganews.com>
Lines: 8
X-Trace: sv3-OOQ63PsBQRwYMMD4Oh903JmjA2R9yHC/
YdMi64EPqHPxqTwQAE49mnVXgaNYwGmmgwox5VC/xAkyIwo!
44XrTYPGlvCBfPMJPr+4GVXpFHrWM7zOrf62zcXrpmFTw2Qd4v1grWmN9uw2ZGXeimo2EiRluws=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com uk.radio.amateur:109540 rec.radio.amateur.homebrew:12978

"G.A.Evans G4SDW" <me@privacy.net> wrote in message
news:f029r1$6kk$2@aioe.org...
> No takers for a joint effort, then?
>

Not content with being a boozer?

From 7077494562213633188
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: Mark@kb9rqz.org
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Tue, 17 Apr 2007 07:12:19 -0400
Message-ID: <9ra9239ke1bu16g8o6lmo8eirhdmkjt3am@4ax.com>
References: <evvkn4$236$1@aioe.org>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 17
NNTP-Posting-Date: 17 Apr 2007 10:19:25 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com uk.radio.amateur:109541 rec.radio.amateur.homebrew:12979

On Mon, 16 Apr 2007 11:55:32 +0100, "G.A.Evans G4SDW" <me@privacy.net>
wrote:

>I wonder if we who are the Usenet-frequenting Radio
>Hams might somehow get together to sort out the
>dreadful mess that has been created in no small
>part by the self-interest of those who control
>the RSCB?

the RSGB and indeed Eng herself have had (properly) little to do the
current of of the ARS

http://kb9rqz.blogspot.com

--
Posted via a free Usenet account from http://www.teranews.com

From -8856742567760835391
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o5g2000hsb.googlegroups.com!not-for-mail
From: "Mike Gathergood, G4KFK" <mike.gathergood@googlemail.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: 17 Apr 2007 04:14:41 -0700
Organization: http://groups.google.com
Lines: 16
Message-ID: <1176808481.150562.314450@o5g2000hsb.googlegroups.com>
References: <evvkn4$236$1@aioe.org><f029r1$6kk$2@aioe.org>
NNTP-Posting-Host: 82.0.190.39
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176808481 4694 127.0.0.1 (17 Apr 2007 11:14:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 17 Apr 2007 11:14:41 +0000 (UTC)
In-Reply-To: <f029r1$6kk$2@aioe.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o5g2000hsb.googlegroups.com; posting-host=82.0.190.39;
   posting-account=fTcdIQ0AAAC07gA1BA9FOc-RumYX4ZMS
Xref: g2news1.google.com uk.radio.amateur:109543 rec.radio.amateur.homebrew:12980

On 17 Apr, 12:08, "G.A.Evans G4SDW" <m...@privacy.net> wrote:
> No takers for a joint effort, then?

Why don't you start us off with construction details and circuit
diagrams for some of your projects, Gareth?

Maybe the Wimshurst machine and primary cells you keep telling us
about. Or those small pieces of test equipment (possibly the
multimeters and signal
generators)? Then maybe your receivers and transmitters after that?

Here's a link to some free web space: http://geocities.yahoo.com/

73
Mike G4KFK

From 5710094849801581837
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.germany.com!aioe.org!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Tue, 17 Apr 2007 12:25:51 +0100
Organization: Aioe.org NNTP Server
Lines: 10
Message-ID: <f02arv$9vj$1@aioe.org>
References: <evvkn4$236$1@aioe.org> <9ra9239ke1bu16g8o6lmo8eirhdmkjt3am@4ax.com>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:109547 rec.radio.amateur.homebrew:12981

Parlez-vous Anglais?

<Mark@kb9rqz.org> wrote in message
news:9ra9239ke1bu16g8o6lmo8eirhdmkjt3am@4ax.com...
>
> the RSGB and indeed Eng herself have had (properly) little to do the
> current of of the ARS
>

From -7567333377486311423
X-Google-Thread: fc2a5,cf6dd909f3daf044
X-Google-Attributes: gidfc2a5,public

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 17 Apr 2007 06:36:10 -0500
Date: Tue, 17 Apr 2007 12:35:58 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/
20060910 SeaMonkey/1.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power Rheostat Question..
References: <QjTUh.521278$Ju2.450125@newsfe16.lga>
In-Reply-To: <QjTUh.521278$Ju2.450125@newsfe16.lga>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <pbidnQW9E8S2LLnbRVnyugA@pipex.net>
Lines: 14
NNTP-Posting-Host: 85.210.51.158
X-Trace: sv3-
R1QEkz4USmM1uz4K+gm+azadnajDgY9ZR26te7GS67Rpu6nw61wWLTfHwaFowvYy87GYGqAbxplpT32!
PBa7ViqoxRJZUW/D1uUzmPCHu48xn11A8iW5PRu/t7fwme3C1lJ1WDLjwlHPuzUF+6ItLB9eDCep!
DLn1vV3KgXLc/A==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12982
```

Uncle Peter wrote:

> Does reducing the resistance affect the wattage rating
> of a power rheostat? I'd imagine it does, but I'm not
> sure how it would be derated..

============================
The power rating of a rheostat is based upon its total resistance R.
allowing for a max current I   with P(max) equals I*I*R

If the adjustable resistance is reduced to say 1/5 of the total
resistance that reduced resistance can accept the same current I .
This means the power rating has been reduced by a factor 5 ,in other
words the power rating is proportional to the set resistance.

Frank   GM0CSZ / KN6WH

```
From -2279799236283073980
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!aioe.org!not-for-mail
```

From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Tue, 17 Apr 2007 13:08:28 +0100
Organization: Aioe.org NNTP Server
Lines: 39
Message-ID: <f02dbs$hec$1@aioe.org>
References: <evvkn4$236$1@aioe.org>
<Pine.NEB.4.64.0704160912490.19214@panix1.panix.com>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:109555 rec.radio.amateur.homebrew:12983

What I had in mind was a slightly higher level
system view.

So starting at the easy end, we might specify that
the AF amp takes 100mW into 600 Ohms, and
delivers 1W out into 8 Ohms. a biscuit to do that
might take many forms but would all be interchangeable.

If an audio filter were to be included, that would
work in and out at 100mV into 600 Ohms with
0dB gain - and would thus be an optional fit
prior to the AF amp.

I'm not thinking in terms of mother and daughter boards,
but of a set of standard biscuit designs that could then
be assembled into whatever, test eqpt or rig.

Although we'd be using small miniature components (is
anything else readily available these days?) that miniaturisation
does not have to feature in our biscuits necessarily, so
we might have SMDs but spaced out by half-an-inch, or so,
to enable us to work with them.

Setting aside the infantile remarks and attention-seeking
from "the usual suspects", I'm proposing that this be a joint
effort.

"Straydog" <asd@panix.com> wrote in message
news:Pine.NEB.4.64.0704160912490.19214@panix1.panix.com...
>>
>> Might we all act together to produce a series
>> of "biscuits" that could then be assembled
>> Lego-like fashion to produce any rig or test
>> equipment?
>

> FWIW (pardon me) but I recognize what you are talking about as "descrete
> devices" (i.e. tubes, transistors, resistors, capacitors, etc.).

From -5221235711709974825
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news2.arglkargh.de!
news.cnetm.de!news.mb-net.net!open-news-network.org!aioe.org!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Tue, 17 Apr 2007 13:15:41 +0100
Organization: Aioe.org NNTP Server
Lines: 33
Message-ID: <f02dpc$iuh$1@aioe.org>
References: <evvkn4$236$1@aioe.org>
<Pine.NEB.4.64.0704160912490.19214@panix1.panix.com> <f02dbs$hec$1@aioe.org>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:109557 rec.radio.amateur.homebrew:12984

Each biscuit would be a standard size or a multiple
thereof, I'd tentatively suggest 1 1/2" X 2".

Assembly of a transceiver would then consist of
biscuits mounted horizontally. The idea is that we
put HB firmly back on the map as the standard
route into HamRadio, so I'm not after miniaturisation.

Perhaps if we could produce rigs of the size of floor
plan size of the old FT101 we'd be OK for easily
doing our own maintenance....we need to ensure room to
get a soldering iron and a probe in there without fear
of affecting other parts.

For all their simplicity, this spaciousness and room-to-breathe
was something desirable that was lost with the demise
of valve ("tube" to the Yanks) rigs.

<me@privacy.net> wrote in message news:f02dbs$hec$1@aioe.org...
> What I had in mind was a slightly higher level
> system view.
>

> So starting at the easy end, we might specify that
> the AF amp takes 100mW into 600 Ohms, and
> delivers 1W out into 8 Ohms. a biscuit to do that
> might take many forms but would all be interchangeable.
>
> If an audio filter were to be included, that would
> work in and out at 100mV into 600 Ohms with
> 0dB gain - and would thus be an optional fit
> prior to the AF amp.

```
From 6030553056215194399
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 17 Apr 2007 07:28:29 -0500
Date: Tue, 17 Apr 2007 13:28:20 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/
20060910 SeaMonkey/1.0.5
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
References: <evvkn4$236$1@aioe.org>
<Pine.NEB.4.64.0704160912490.19214@panix1.panix.com> <f02dbs$hec$1@aioe.org>
In-Reply-To: <f02dbs$hec$1@aioe.org>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <oNWdnbNFFenwILnbRVnyhwA@pipex.net>
Lines: 34
NNTP-Posting-Host: 85.210.51.158
X-Trace:
sv3-4crM9SsBcnUs2v3CUCWKG0IdHibin0C2zbg0fpXrobM1RPnTO9jMUGRolm2xRebGTXLn9jmfaAv4G3
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WJvh4E6fUTLe6g==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com uk.radio.amateur:109560 rec.radio.amateur.homebrew:12985
```

> What I had in mind was a slightly higher level
> system view.
>
> So starting at the easy end, we might specify that

> the AF amp takes 100mW into 600 Ohms, and
> delivers 1W out into 8 Ohms. a biscuit to do that
> might take many forms but would all be interchangeable.
>
> If an audio filter were to be included, that would
> work in and out at 100mV into 600 Ohms with
> 0dB gain - and would thus be an optional fit
> prior to the AF amp.
>
> I'm not thinking in terms of mother and daughter boards,
> but of a set of standard biscuit designs that could then
> be assembled into whatever, test eqpt or rig.
>
> Although we'd be using small miniature components (is
> anything else readily available these days?) that miniaturisation
> does not have to feature in our biscuits necessarily, so
> we might have SMDs but spaced out by half-an-inch, or so,
> to enable us to work with them.
>
> Setting aside the infantile remarks and attention-seeking
> from "the usual suspects", I'm proposing that this be a joint
> effort.

=================================
Just for information :
A modular approach to homebrewing (call it biscuit building) is also
very well propagated in the book : Experimental Methods in RF Design ,by
W7ZOI , KK7B and W7PUA.   Most modules are built in 'ugly contruction'
style for best possible (RF) stability and low cost .

Frank GM0CSZ / KN6WH

From 9843749335588299O7
X-Google-Thread: fc2a5,931e6b750123595c,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out04a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!news-
in-02.newsfeed.easynews.com!easynews.com!easynews!hwmnpeer01.phx!news.highwinds-
media.com!hw-filter.phx!newsfe12.phx.POSTED!53ab2750!not-for-mail
From: "The Shadow" <repose@zilch.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FYI: 100+ Kit Project Companies
Lines: 6
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <EI5Vh.144548$g24.51747@newsfe12.phx>
Date: Tue, 17 Apr 2007 08:28:36 -0700
NNTP-Posting-Host: 72.197.13.209
X-Complaints-To: admin@cox.net

X-Trace: newsfe12.phx 1176823716 72.197.13.209 (Tue, 17 Apr 2007 08:28:36 MST)
NNTP-Posting-Date: Tue, 17 Apr 2007 08:28:36 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:12986

Yep they still make kits - URL:
http://ac6v.com/kits.htm

Lamont

From 4797513002579642886
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-in.ntli.net!
newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe1-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Brian Reay" <see@website.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
Subject: Re: Putting the Ham back into Ham Radio?
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <5C6Vh.858$M_3.108@newsfe1-gui.ntli.net>
Date: Tue, 17 Apr 2007 16:29:53 GMT
NNTP-Posting-Host: 82.2.112.63
X-Complaints-To: http://www.virgin.net/netreport
X-Trace: newsfe1-gui.ntli.net 1176827393 82.2.112.63 (Tue, 17 Apr 2007 17:29:53 BST)
NNTP-Posting-Date: Tue, 17 Apr 2007 17:29:53 BST
Organization: Virgin Net Usenet Service
Xref: g2news1.google.com uk.radio.amateur:109586 rec.radio.amateur.homebrew:12987

"G.A.Evans G4SDW" <me@privacy.net> wrote in message
news:f029r1$6kk$2@aioe.org...
> No takers for a joint effort, then?

Really Gareth, I think this is something you should get going.
Prove your idea is a "goer" and I'm sure others will join in.

Good luck with it.

--
73
Brian, G8OSN

```
www.g8osn.org.uk

Now your amateur licence is free, why not send at least �15 per year to
support the
Radio Communications Foundation or STELAR?




From -1888856924658556907
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Spike <Aero.Spike@S&T.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Tue, 17 Apr 2007 17:35:17 +0100
Lines: 24
Message-ID: <2lt92398mcui1ubm9qvtka9u4vhkfca468@4ax.com>
References: <evvkn4$236$1@aioe.org> <pEOUh.1757$771.914@newsfe2-win.ntli.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: individual.net tHlQSb1BSKqEmxGkDIajJQURdHq5IqO0pJ+UNWRKTbhDS1ey0A
X-Newsreader: Forte Agent 1.93/32.576 English (American)
Xref: g2news1.google.com uk.radio.amateur:109587 rec.radio.amateur.homebrew:12988


Brian Reay wrote:

>"G.A.Evans G4SDW" <me@privacy.net> wrote in message
>news:evvkn4$236$1@aioe.org...
> >
>> Might we all act together to produce a series
>> of "biscuits" that could then be assembled
>> Lego-like fashion to produce any rig or test
>> equipment?
>
>A truely excellent idea Gareth.
>
>Why don't you rough out a plan and design a few of these "biscuits" and
>publish them on a website or maybe in one of the various journals that
>support the hobby.
>
>Good luck and I look forward to seeing your first designs.

I look forward to seeing the implementation of the design of the first
unit ever to incorporate the Big-K approach to DSP.
--
from
```

Aero Spike

```
From -743992532307898968
```

```
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news.glorb.com!news-in.ntli.net!
newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe4-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Brian Reay" <see@website.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <evvkn4$236$1@aioe.org> <pEOUh.1757$771.914@newsfe2-win.ntli.net>
<2lt92398mcui1ubm9qvtka9u4vhkfca468@4ax.com>
Subject: Re: Putting the Ham back into Ham Radio?
Lines: 40
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <wR6Vh.16229$N94.14766@newsfe4-gui.ntli.net>
Date: Tue, 17 Apr 2007 16:46:20 GMT
NNTP-Posting-Host: 82.2.112.63
X-Complaints-To: http://www.virgin.net/netreport
X-Trace: newsfe4-gui.ntli.net 1176828380 82.2.112.63 (Tue, 17 Apr 2007 17:46:20
BST)
NNTP-Posting-Date: Tue, 17 Apr 2007 17:46:20 BST
Organization: Virgin Net Usenet Service
Xref: g2news1.google.com uk.radio.amateur:109589 rec.radio.amateur.homebrew:12989

"Spike" <Aero.Spike@S&T.invalid> wrote in message
news:2lt92398mcui1ubm9qvtka9u4vhkfca468@4ax.com...
>
> Brian Reay wrote:
>
>>"G.A.Evans G4SDW" <me@privacy.net> wrote in message
>>news:evvkn4$236$1@aioe.org...
>> >
>>> Might we all act together to produce a series
>>> of "biscuits" that could then be assembled
>>> Lego-like fashion to produce any rig or test
>>> equipment?
>>
>>A truely excellent idea Gareth.
>>
>>Why don't you rough out a plan and design a few of these "biscuits" and
>>publish them on a website or maybe in one of the various journals that
>>support the hobby.
>>
>>Good luck and I look forward to seeing your first designs.
>
```

> I look forward to seeing the implementation of the design of the first
> unit ever to incorporate the Big-K approach to DSP.

To be fair, I'd like to see some of his projects published and will even offer to host them on a website- with full credit for their design etc. attributed to Gareth.

--
73
Brian, G8OSN
www.g8osn.org.uk

Now your amateur licence is free, why not send at least �15 per year to
support the
Radio Communications Foundation or STELAR?

```
From -3748059601321855804
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!feeder3.cambrium.nl!feed.tweaknews.nl!
newsfeed.kamp.net!newsfeed.kamp.net!fu-berlin.de!uni-berlin.de!individual.net!not-
for-mail
From: Spike <Aero.Spike@S&T.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Tue, 17 Apr 2007 17:58:41 +0100
Lines: 22
Message-ID: <6vu923ppcu239gc5ka6hv4pm4bs5cfe3pb@4ax.com>
References: <evvkn4$236$1@aioe.org> <pEOUh.1757$771.914@newsfe2-win.ntli.net>
<2lt92398mcui1ubm9qvtka9u4vhkfca468@4ax.com> <wR6Vh.16229$N94.14766@newsfe4-
gui.ntli.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: individual.net v3PEzunQmFyj6ct8WjnJlAKlIN959lfTZo4aI855YpZiYpbCa/
X-Newsreader: Forte Agent 1.93/32.576 English (American)
Xref: g2news1.google.com uk.radio.amateur:109591 rec.radio.amateur.homebrew:12990
```

Brian Reay wrote:

>"Spike" <Aero.Spike@S&T.invalid> wrote in message
>news:2lt92398mcui1ubm9qvtka9u4vhkfca468@4ax.com...
>
>> I look forward to seeing the implementation of the design of the first
>> unit ever to incorporate the Big-K approach to DSP.

>
>To be fair, I'd like to see some of his projects published and will even
>offer to host them on a website - with full credit for their design etc.
>attributed to Gareth.

Quite so. It's just going to be interesting seeing how certain topics
he's posted on in the past turn out in reality.

A cynic might say that by involving others in the design, the
fall-guys are already being lined up ready for any failure that might
arise.
--
from
Aero Spike

```
From 4423450789208576832
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!
news-out.ntli.net!newsrout1-gui.ntli.net!ntli.net!news.highwinds-media.com!
newspeer1-win.ntli.net!newsfe7-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Brian Reay" <see@website.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <evvkn4$236$1@aioe.org> <pEOUh.1757$771.914@newsfe2-win.ntli.net>
<2lt92398mcui1ubm9qvtka9u4vhkfca468@4ax.com> <wR6Vh.16229$N94.14766@newsfe4-
gui.ntli.net> <6vu923ppcu239gc5ka6hv4pm4bs5cfe3pb@4ax.com>
Subject: Re: Putting the Ham back into Ham Radio?
Lines: 38
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <167Vh.1105$V7.469@newsfe7-gui.ntli.net>
Date: Tue, 17 Apr 2007 17:03:57 GMT
NNTP-Posting-Host: 82.2.112.63
X-Complaints-To: http://www.virgin.net/netreport
X-Trace: newsfe7-gui.ntli.net 1176829437 82.2.112.63 (Tue, 17 Apr 2007 18:03:57
BST)
NNTP-Posting-Date: Tue, 17 Apr 2007 18:03:57 BST
Organization: Virgin Net Usenet Service
Xref: g2news1.google.com uk.radio.amateur:109592 rec.radio.amateur.homebrew:12991
```

"Spike" <Aero.Spike@S&T.invalid> wrote in message
news:6vu923ppcu239gc5ka6hv4pm4bs5cfe3pb@4ax.com...
>
> Brian Reay wrote:
>
>>"Spike" <Aero.Spike@S&T.invalid> wrote in message

```
>>news:2lt92398mcui1ubm9qvtka9u4vhkfca468@4ax.com...
>>
>>> I look forward to seeing the implementation of the design of the first
>>> unit ever to incorporate the Big-K approach to DSP.
>>
>>To be fair,  I'd like to see some of his projects  published and will even
>>offer to host them on a website - with full credit for their design etc.
>>attributed to Gareth.
>
> Quite so. It's just going to be interesting seeing how certain topics
> he's posted on in the past turn out in reality.
>
> A cynic might say that by involving others in the design, the
> fall-guys are already being lined up ready for any failure that might
> arise.

Well, if he comes up with some designs he is vindicated. If the biscuits
turn out to never to be at least half baked then you are vindicated.

He has suggested the idea, I've supported it and offered to host the designs
the ball is now in his court.

 --
73
Brian, G8OSN
www.g8osn.org.uk

Now your amateur licence is free, why not send at least �15 per year to
support the
Radio Communications Foundation or STELAR?




From 3914702232049480486
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Spike <Aero.Spike@S&T.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Tue, 17 Apr 2007 18:10:10 +0100
Lines: 43
Message-ID: <dlv923hec0fa25v5bihhh4i7no4c8fktgo@4ax.com>
References: <evvkn4$236$1@aioe.org> <pEOUh.1757$771.914@newsfe2-win.ntli.net>
<2lt92398mcui1ubm9qvtka9u4vhkfca468@4ax.com> <wR6Vh.16229$N94.14766@newsfe4-
gui.ntli.net> <6vu923ppcu239gc5ka6hv4pm4bs5cfe3pb@4ax.com>
<167Vh.1105$V7.469@newsfe7-gui.ntli.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
```

```
Content-Transfer-Encoding: 7bit
X-Trace: individual.net diGmYg37F9fETQfgqPBbqQvvaUU/NR1bTJydLLdBWQkCZpaxrx
X-Newsreader: Forte Agent 1.93/32.576 English (American)
Xref: g2news1.google.com uk.radio.amateur:109594 rec.radio.amateur.homebrew:12992


Brian Reay wrote:

>"Spike" <Aero.Spike@S&T.invalid> wrote in message
>news:6vu923ppcu239gc5ka6hv4pm4bs5cfe3pb@4ax.com...
>>
>> Brian Reay wrote:
>>
>>>"Spike" <Aero.Spike@S&T.invalid> wrote in message
>>>news:2lt92398mcui1ubm9qvtka9u4vhkfca468@4ax.com...
>>>
>>>> I look forward to seeing the implementation of the design of the first
>>>> unit ever to incorporate the Big-K approach to DSP.
>>>
>>>To be fair,  I'd like to see some of his projects  published and will even
>>>offer to host them on a website - with full credit for their design etc.
>>>attributed to Gareth.
>>
>> Quite so. It's just going to be interesting seeing how certain topics
>> he's posted on in the past turn out in reality.
>>
>> A cynic might say that by involving others in the design, the
>> fall-guys are already being lined up ready for any failure that might
>> arise.
>
>Well, if he comes up with some designs he is vindicated. If the biscuits
>turn out to never to be at least half baked then you are vindicated.
>
>He has suggested the idea, I've supported it and offered to host the designs
>the ball is now in his court.

Well, I still recall the FT-707 that was bought in order to implement
a DSP CW transceiver for 136 kHz.

It fell at the first hurdle as it wouldn't work on CW.

Despite receiving helpful suggestions via this medium, Gareth never
saw them due to 'an ISP failure'; and nothing more has been heard of
the project - at least on here.

-- 
from
Aero Spike


From 6846849622542858253
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
```

```
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!aioe.org!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Tue, 17 Apr 2007 20:51:12 +0100
Organization: Aioe.org NNTP Server
Lines: 21
Message-ID: <f038ff$1f1$1@aioe.org>
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:109614 rec.radio.amateur.homebrew:12993

One notorious attention seeker has milked the suggestion
for everything he could get out of it, and has offered no
support for the proposal at all, but is claiming that he has.

Not a difficult guess to name the culprit, I think!

 <me@privacy.net> wrote in message news:f029r1$6kk$2@aioe.org...
> No takers for a joint effort, then?
>
> <me@privacy.net> wrote in message
> news:evvkn4$236$1@aioe.org...
>>I wonder if we who are the Usenet-frequenting Radio
>> Hams might somehow get together to sort out the
>> dreadful mess that has been created in no small
>> part by the self-interest of those who control
>> the RSCB?
>
>
>




From 8766534112281303791
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!news.germany.com!feed.xsnews.nl!
border-1.ams.xsnews.nl!68.142.88.75.MISMATCH!hwmnpeer01.ams!news-out.ntli.net!
newsrout1-gui.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe2-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Brian Reay" <see@website.invalid>
```

Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org> <f038ff$1f1$1@aioe.org>
Subject: Re: Putting the Ham back into Ham Radio?
Lines: 25
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
Date: Tue, 17 Apr 2007 19:56:45 GMT
NNTP-Posting-Host: 82.12.233.89
X-Complaints-To: http://www.virgin.net/netreport
X-Trace: newsfe2-gui.ntli.net 1176839805 82.12.233.89 (Tue, 17 Apr 2007 20:56:45 BST)
NNTP-Posting-Date: Tue, 17 Apr 2007 20:56:45 BST
Organization: Virgin Net Usenet Service
Xref: g2news1.google.com uk.radio.amateur:109616 rec.radio.amateur.homebrew:12995

"G.A.Evans G4SDW" <me@privacy.net> wrote in message news:f038ff$1f1$1@aioe.org...
> One notorious attention seeker has milked the suggestion
> for everything he could get out of it, and has offered no
> support for the proposal at all, but is claiming that he has.

Gareth, you must have missed my post that offered to host your designs on a website, with fully credit to you for the idea and your work.

Please, do some of your designs and I will gladly host them until you have your own website. OR, set up your own website and I will ensure that it is circulated to those who may be interested.

Get those biscuits baking!

--
73
Brian, G8OSN
www.g8osn.org.uk

Now your amateur licence is free, why not send at least �15 per year to support the
Radio Communications Foundation or STELAR?

From 2578263947695716830
X-Google-Thread: fc2a5,d9d67f7bded0f58c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n76g2000hsh.googlegroups.com!not-for-mail

```
From: coldcity@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW copying Improvement
Date: 17 Apr 2007 13:42:44 -0700
Organization: http://groups.google.com
Lines: 13
Message-ID: <1176842564.498095.12910@n76g2000hsh.googlegroups.com>
References: <1162817107.995131.309630@f16g2000cwb.googlegroups.com>
   <I_idnes_5ofSMpPbnZ2dnUVZ_vOlnZ2d@wavecable.com>
NNTP-Posting-Host: 82.153.11.108
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176842564 29690 127.0.0.1 (17 Apr 2007 20:42:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 17 Apr 2007 20:42:44 +0000 (UTC)
In-Reply-To: <I_idnes_5ofSMpPbnZ2dnUVZ_vOlnZ2d@wavecable.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.12)
Gecko/20050915 Firefox/1.0.7 (ax),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n76g2000hsh.googlegroups.com; posting-host=82.153.11.108;
   posting-account=IVbshQ0AAADOzb8yKB4JzNA0GCwbfNmL
Xref: g2news1.google.com rec.radio.amateur.homebrew:12996

On Mar 31, 7:56 pm, "DaveS" <d...@wavecable.com> wrote:
>      I helped my CW hearing ability by making a long speaker
> box which allowed the speaker element to slide up and down
> the length of the box, changing the resonant pitch of the
> box, which allows an audio "peaking" effect.
>     This has the effect of amplifying the cw sidetone at different
> pitches and also increasing the S/N ratio.  Usually, the QRN
> gets lost in the longer travel up the wooden box.
> Dave
> N4DAG

- Dave, that's genius.




From -7968985515080591195
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!newsfeed.esat.net!
reader01.news.esat.net!not-for-mail
From: zpk_pkearn_class_a_licensee@aruba.eircom.india.net.com (zpk)
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Tue, 17 Apr 2007 21:34:11 GMT
Organization: Esat Net Customer
Lines: 7
Message-ID: <46253701.1297844@news.iol.ie>
```

```
References: <evvkn4$236$1@aioe.org> <pEOUh.1757$771.914@newsfe2-win.ntli.net>
NNTP-Posting-Host: dialup0576.ts551.cwt.esat.net
X-Trace: reader01.news.esat.net 1176845586 18307 193.203.142.64 (17 Apr 2007
21:33:06 GMT)
X-Complaints-To: abuse@esat.net
NNTP-Posting-Date: Tue, 17 Apr 2007 21:33:06 +0000 (UTC)
X-Newsreader: Forte Free Agent 1.21/32.243
Xref: g2news1.google.com uk.radio.amateur:109630 rec.radio.amateur.homebrew:12997

"Brian Reay" <see@website.invalid> wrote:

> Good luck and I look forward to seeing your first designs.

said  ex-m3-its as easy as they say-osn




From 7562279604692844279
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!newsfeed.esat.net!
reader01.news.esat.net!not-for-mail
From: zpk_pkearn_class_a_licensee@aruba.eircom.india.net.com (zpk)
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Tue, 17 Apr 2007 21:34:15 GMT
Organization: Esat Net Customer
Lines: 11
Message-ID: <4625373b.1356513@news.iol.ie>
References: <evvkn4$236$1@aioe.org> <pEOUh.1757$771.914@newsfe2-win.ntli.net>
<2lt92398mcui1ubm9qvtka9u4vhkfca468@4ax.com>
NNTP-Posting-Host: dialup0576.ts551.cwt.esat.net
X-Trace: reader01.news.esat.net 1176845590 18307 193.203.142.64 (17 Apr 2007
21:33:10 GMT)
X-Complaints-To: abuse@esat.net
NNTP-Posting-Date: Tue, 17 Apr 2007 21:33:10 +0000 (UTC)
X-Newsreader: Forte Free Agent 1.21/32.243
Xref: g2news1.google.com uk.radio.amateur:109631 rec.radio.amateur.homebrew:12998

Spike <Aero.Spike@S&T.invalid> wrote:

> I look forward to seeing the implementation of the design of the first
> unit ever to incorporate the Big-K approach to DSP.


eh up..its spreading !

now brian ol' boy.... tell your buddie to GROW UP for mentioning BIG K
```

```
From -3373069285615322057
X-Google-Thread: fc2a5,2eb74dfd14b4d25c
X-Google-Thread: fc8b1,2eb74dfd14b4d25c
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out03a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews3.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Best ARRL handbook editions?
References: <1176323867.233519.199530@b75g2000hsg.googlegroups.com>
<Pine.NEB.4.64.0704121451330.3692@panix2.panix.com>
<evo3r2$gcs$1@panix2.panix.com>
<Pine.NEB.4.64.0704131913470.18108@panix1.panix.com>
In-Reply-To: <Pine.NEB.4.64.0704131913470.18108@panix1.panix.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 47
Message-ID: <A6dVh.11933$qB4.662@bignews3.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcboadofclnnnbojiiepincihmhcgkbnadkajo
oedoonkgfmpgmjpionfhbephfolipaaoopjmemfmkgdimkgekpabniehdfjacncjjcpebhhghhpmli
NNTP-Posting-Date: Tue, 17 Apr 2007 19:54:08 EDT
Organization: BellSouth Internet Group
Date: Tue, 17 Apr 2007 19:54:32 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:12999
rec.radio.amateur.boatanchors:11311

Straydog wrote:
>
>
> On Fri, 13 Apr 2007, Scott Dorsey wrote:
>
>> Straydog  <asd@panix.com> wrote:
>>>
>>> You might want to think about the tube evolutions: the very early tubes
>>> are harder to find and more expensive and particularly the tube sockets.
>>
>> I just want to say that if you want to build your own tube gear, you
>> should look seriously at compactrons.  Designed for consumer electronics
>> use, they have some excellent specifications and a lot of elements in
>> a package.  And they are absolutely dirt cheap because there is no demand
>> for them on the surplus market at all.
```

>
> Well, I'm already committed to 7 & 9 pin miniatures, and 8 pin octals,
> have plenty of sockets, and more than enough tubes for my lifetime.
>
> Once, long ago, I had a filament battery portable AM radio. About half
> the size of a cigar box. Four tubes, one D cell, one 90 v B battery, and
> lift up the cover, and it goes on in about 1/2 second, and sounded good.
> If I have time, I'd like to build that (if I can't find a replica, or a
> similar set [I think the old Zenith trans-oceanic had battery filament
> tubes, too, might be interested in one of those instead]). Just for
> nostalgia.
>
>> Some of these things are absolutely wonderful performers and available
>> free for the asking. 12 pins good!
>> --scott
>>
>>
>> --
>> "C'est un Nagra. C'est suisse, et tres, tres precis."
>>

I've got a few 6AR11's and 6AF11's that I've been meaning to use for
something. The 6AR11 puts two if stages in on bottle. I also have
quite a few 85khz command set IF cans, so that would be nice. The 6AF11
makes a nice dual af stage, plus the extra triode can be used as an agc
amplifier, smeter amp, or bfo tube. I was thinking of making an all
compactron clone of the Drake 2B at one time, using a last if of 85khz
instead of 50khz to make use of the command set coils.
It would use one 6AR11 as the rf / first mixer, and at the IF stage.
A 6D10 could be the vfo, HFO and hfo buffer.   The last mixer would have
been a 6BE6 cause I couldn't think of a compactron for that stage.

Another idea is the one tube regen from 'pop tronics using the 6AF11.

From -394317587392173531
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!out03b.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!news-in-02.newsfeed.easynews.com!easynews.com!easynews!sn-xt-sjc-02!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
Date: Tue, 17 Apr 2007 17:38:22 -0700
Organization: EZNEC Antenna Software
Message-ID: <132aq49pg1biv8c@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
References: <12vl7d0bq4bsu95@corp.supernews.com> <4602c68e$0$16724$4c368faf@roadrunner.com>
In-Reply-To: <4602c68e$0$16724$4c368faf@roadrunner.com>

Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 20
Xref: g2news1.google.com rec.radio.amateur.homebrew:13000

Sorry, I disagree with many of the suggestions being made. Putting a nonlinear device or devices like a zener or a series of diodes across your antenna terminals can produce intermodulation among incoming signals. These will appear at your receiver as hash and spurious signals at various frequencies. When transmitting, they can create harmonics.

The advice I do go along with is to put a resistor or RF choke across the terminals if static is a problem. Either will prevent it. You won't be able to tell any difference between carbon, carbon film, and metal film in just about any RF application -- any are just fine. Don't use a wire wound resistor, however.

I don't see much sense in letting static build up to several tens of volts, then have a neon bulb ignite to discharge it -- with a loud pop you'll hear in your receiver -- down to a slightly lower level. A resistor or RF choke will keep it at near zero. By all means, have fun impressing your friends with blinking NE-2s, but use something else to drain off the static.

Roy Lewallen, W7EL

From -7037706134376055402
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
Date: Tue, 17 Apr 2007 22:38:16 -0400
From: **THE-RFI-EMI-GUY** <rhyolite@nettally.com>
Organization: Central Scrutinizer
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
References: <12vl7d0bq4bsu95@corp.supernews.com>
<4602c68e$0$16724$4c368faf@roadrunner.com> <132aq49pg1biv8c@corp.supernews.com>
In-Reply-To: <132aq49pg1biv8c@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 41
Message-ID: <46258446$0$5738$4c368faf@roadrunner.com>
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13001

Back in the good old days of CB, in Chicago, I had a ground plane antenna which had no DC return path. My Lafayette CB radio started making some very strange noises so I disconnected the PL259 and was surprised to see a spark jumping across the connecter. This continued for hours as the voltage built up and discharged. Pretty impressive display of precipitation static.

Roy Lewallen wrote:

> Sorry, I disagree with many of the suggestions being made. Putting a nonlinear device or devices like a zener or a series of diodes across your antenna terminals can produce intermodulation among incoming signals. These will appear at your receiver as hash and spurious signals at various frequencies. When transmitting, they can create harmonics.
>
> The advice I do go along with is to put a resistor or RF choke across the terminals if static is a problem. Either will prevent it. You won't be able to tell any difference between carbon, carbon film, and metal film in just about any RF application -- any are just fine. Don't use a wire wound resistor, however.
>
> I don't see much sense in letting static build up to several tens of volts, then have a neon bulb ignite to discharge it -- with a loud pop you'll hear in your receiver -- down to a slightly lower level. A resistor or RF choke will keep it at near zero. By all means, have fun impressing your friends with blinking NE-2s, but use something else to drain off the static.
>
> Roy Lewallen, W7EL

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From -1792307343509136947
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!aioe.org!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?

Date: Wed, 18 Apr 2007 07:55:38 +0100
Organization: Aioe.org NNTP Server
Lines: 38
Message-ID: <f04fdb$h2n$1@aioe.org>
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
<f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:109680 rec.radio.amateur.homebrew:13002

I doubt his sincerity, based on his previous emotional history expressed in this NG, and his contemporaneous linking up with Mrs.Nugatory in an abusive sub-thread.

What you have quoted below is most certainly _NOT_ a support for the proposal. There is no suggestion of what the biscuits might be; no suggestion of what the standard interfaces between biscuits might be; no suggestion of what the mechanical arrangements migth be; no proposals of component sets.

In fact, there has been _NO_ support whatsoever for the proposal that _WE_ all act together to save Ham Radio from the predations of the RSCB and other destructive influences.

What has there been?

Why, merely an examination of means whereby the proposer himself might gain some attention and reflected glory from the actions of others and to set in place, perhaps, the groundwork for a campaign of further abuse, as is his wont.

Web-sites? SPRAT? This is merely stating the bleeding obvious and as a claim for having supported the proposal it is _NUGATORY_ in the extreme.

<lucifer@eternal-flames.gov> wrote in message
news:1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com...
> On Tue, 17 Apr 2007 19:56:45 GMT, "Brian Reay" <see@website.invalid>
> wrote:
>
>>Gareth, you must have missed my post that offered to host your designs on
>>a
>>website, with fully credit to you for the idea and your work.
>
> It's probably just an oversight, Brian.
> I'm sure there's no suggestion of anybody doubting your sincerity.

```
From -4347974028345957624
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e65g2000hsc.googlegroups.com!not-for-
mail
From: "Mike Gathergood, G4KFK" <mike.gathergood@googlemail.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: 18 Apr 2007 00:02:56 -0700
Organization: http://groups.google.com
Lines: 14
Message-ID: <1176879776.313257.224850@e65g2000hsc.googlegroups.com>
References: <evvkn4$236$1@aioe.org><f029r1$6kk$2@aioe.org>
   <f038ff$1f1$1@aioe.org>
   <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
   <1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com>
   <f04fdb$h2n$1@aioe.org>
NNTP-Posting-Host: 82.0.190.39
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176879776 28029 127.0.0.1 (18 Apr 2007 07:02:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 18 Apr 2007 07:02:56 +0000 (UTC)
In-Reply-To: <f04fdb$h2n$1@aioe.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET
CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e65g2000hsc.googlegroups.com; posting-host=82.0.190.39;
   posting-account=fTcdIQ0AAAC07gA1BA9FOc-RumYX4ZMS
Xref: g2news1.google.com uk.radio.amateur:109682 rec.radio.amateur.homebrew:13003
```

On 18 Apr, 07:55, "G.A.Evans G4SDW" <m...@privacy.net> wrote:

> . There is no suggestion of what
> the biscuits might be; no suggestion of what the standard interfaces
> between biscuits might be; no suggestion of what the mechanical
> arrangements migth be; no proposals of component sets.

I thought this was *YOUR* proposal Gareth?

Are you saying that you had this flash of inspiration, but that it's
somebody else's job (the RSGB's?) to do all the work?

73
Mike G4KFK

From 5273405140771323585
X-Google-Thread: fc2a5,caeedfc595e89173,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: The Harry Thomas Show - week in review 04/17/07 News for Freedom Lovers
From: Harry Thomas <harrythomas@nospam.netzero.net>
Organization: pfabf
Message-ID: <Xns99161EF0DF6FFharrythomasnospamnet@66.150.105.47>
User-Agent: Xnews/5.04.25
Date: 18 Apr 2007 06:09:46 GMT
Lines: 50
NNTP-Posting-Date: 18 Apr 2007 06:09:46 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:13004

The Harry Thomas Show - week in review 04/17/07 News for Freedom Lovers
http://harrythomas.info
Listen to the show right from the website.

This weeks topics include - VT Shooting , Gun Control, World Government, NAU, Ron Paul 2008, War Update, 911 , Big Brother, And Much More

ANNOUNCEMENT : New and Improved Sound now posted in mp3 Format

The Return of The Harry Thomas Show

The "garage talk show" that is reaching out to Worldwide Usenet

after hiatus he is back to inform the people of deception and corruption.

Hosted by Harry Thomas;

The Harry Thomas Show - week in review is a 4 segment show. We have had

tremendous response and we want to thank our Listeners.

Keep them e-mails coming and thanks for your support !

harrythomas@netzero.net

The Show is recorded on Wednesdays
Posted to usenet on Wednesday Nights   to;
alt.binaries.great , - alt.binaries.radio.misc , -
alt.binaries.multimedia.documentary -alt.binaries.sounds.radio.misc, -
alt.binaries.sounds.radio, - alt.binaries.sounds.wma, - and
alt.binaries.multimedia - alt.binaries.mp3
The NFO (information) file posted both days to ;

alt.pirate.radio, - alt.internet.talk.radio, - alt.talk.radio, -

rec.radio.amateur.homebrew, - rec.radio.misc, -
alt.radio.international, - rec.radio.amateur, - alt.radio.talk, -
alt.radio.internet, - and alt.internet.talk-radio

Reposted to usenet on Saturdays to;
alt.binaries.sounds.radio.repost and alt.binaries.multimedia.repost
These are binary newsgroups.

check website for more information
http://harrythomas.info

We Will Make A Difference !

--
Posted via a free Usenet account from http://www.teranews.com

From 2282677733551797423
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!proxad.net!news.newsland.it!aioe.org!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Wed, 18 Apr 2007 08:04:59 +0100
Organization: Aioe.org NNTP Server
Lines: 39
Message-ID: <f04fur$hth$1@aioe.org>
References: <evvkn4$236$1@aioe.org> <pEOUh.1757$771.914@newsfe2-win.ntli.net> <2lt92398mcui1ubm9qvtka9u4vhkfca468@4ax.com> <wR6Vh.16229$N94.14766@newsfe4-gui.ntli.net> <6vu923ppcu239gc5ka6hv4pm4bs5cfe3pb@4ax.com> <167Vh.1105$V7.469@newsfe7-gui.ntli.net> <dlv923hec0fa25v5bihhh4i7no4c8fktgo@4ax.com>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:109684 rec.radio.amateur.homebrew:13005

Mrs. Nugatory's lashing out in an infantile temper
tantrum now that she has been bested!

Any doubts that she's an anonymous cowardly poison-pen?

None, I think.

Now, Mrs. Nugatory, instead of displaying negative and
destructive tirades against me, why not discuss some of your
own projects and project ideas over the years? It is of course
extremely easy, some might say cowardly, to pick on someone
who has discussed ideas and possibilities over the years in an
attempt to promote the _REAL_ in _REAL_ Ham Radio, and
this picking-on is what you do. However, I think it more appropriate in a NG
for us all to contribute positively to promote the technical pursuit.

Go on! Dry your tears" You _CAN_ be a grown-up if you really try!

"Spike" <Aero.Spike@S&T.invalid> wrote in message
news:dlv923hec0fa25v5bihhh4i7no4c8fktgo@4ax.com...
>"Spike" <Aero.Spike@S&T.invalid> wrote in message
>news:6vu923ppcu239gc5ka6hv4pm4bs5cfe3pb@4ax.com...
>"Spike" <Aero.Spike@S&T.invalid> wrote in message
>news:2lt92398mcui1ubm9qvtka9u4vhkfca468@4ax.com...
> I look forward to seeing the implementation of the design of the first
> unit ever to incorporate the Big-K approach to DSP.
> Quite so. It's just going to be interesting seeing how certain topics
> he's posted on in the past turn out in reality.
> A cynic might say that by involving others in the design, the
> fall-guys are already being lined up ready for any failure that might
> arise.
> Well, I still recall the FT-707 that was bought in order to implement
> a DSP CW transceiver for 136 kHz.
> It fell at the first hurdle as it wouldn't work on CW.
> Despite receiving helpful suggestions via this medium, Gareth never
> saw them due to 'an ISP failure'; and nothing more has been heard of
> the project - at least on here.

From 8690569274527693866
X-Google-Thread: fc2a5,c6cf1a6ed52be993,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news.linkpendium.com!
news.linkpendium.com!pit-transit.telstra.net!lon-in.news.telstra.net!
news.telstra.net!news-server.bigpond.net.au!53ab2750!not-for-mail
From: "P.Gregory" <hoonz@bigpond.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: This idea of testing a trap
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original

Message-ID: <6UnVh.15331$M.341@news-server.bigpond.net.au>
Date: Wed, 18 Apr 2007 12:09:38 GMT
NNTP-Posting-Host: 58.170.56.111
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1176898178 58.170.56.111 (Wed, 18 Apr 2007
22:09:38 EST)
NNTP-Posting-Date: Wed, 18 Apr 2007 22:09:38 EST
Organization: BigPond Internet Services
Xref: g2news1.google.com rec.radio.amateur.homebrew:13006

Any others got a thought on this , i have no test gear at all and
before i start i was wondering wether it was worth starting at all , but
if i make a LC parallel resonant trap for say the 40m band , if i
soldered a small 50hm dummy load on one side and then fed the trap on
the other through a vswr meter with very small power could the the trap
point be measured or would the loading of the dummy load pull the
resonance off as i aware there be thousand ohms or so imp there , to
save a waste of time no suggestions to make a coaxial trap i not
interested ...cheers paul...

From 1825307939887434719
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.stanford.edu!
headwall.stanford.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
Date: 18 Apr 2007 08:53:02 -0500
Organization: Kansas State University
Lines: 20
Message-ID: <f057ru$15i@unix1.cc.ksu.edu>
References: <12vl7d0bq4bsu95@corp.supernews.com>
<4602c68e$0$16724$4c368faf@roadrunner.com> <132aq49pg1biv8c@corp.supernews.com>
NNTP-Posting-Host: unix1.cc.ksu.edu
X-Trace: cnn.cns.ksu.edu 1176904384 14581 129.130.12.3 (18 Apr 2007 13:53:04 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Wed, 18 Apr 2007 13:53:03 +0000 (UTC)
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news1.google.com rec.radio.amateur.homebrew:13007

I've never written a follow-up to a Lewallen post, but here is
another advantage to using resistors that Roy didn't mention:

If you put your resistor(s) at an OUTside grounding point and
if you can remember their value(s), you may be able to make a
quick test of the integrity of your feedline from INside the
shack with an ohm-meter! (But NOT during a storm, of course!-)

```
Roy Lewallen <w7el@eznec.com> writes:
>Sorry, I disagree with many of the suggestions being made. Putting a
>nonlinear device or devices like a zener or a series of diodes across
>....[snip]....
>The advice I do go along with is to put a resistor or RF choke across
>the terminals if static is a problem. Either will prevent it. You won't
>....[snip]....
--
--Myron A. Calhoun.
Five boxes preserve our freedoms:  soap, ballot, witness, jury, and cartridge
NRA Life Member & Certified Instructor for Rifle, Pistol, & Home Firearm Safety
Also Certified Instructor for the Kansas Concealed-Carry Handgun (CCH) license



From 7779236500301835602
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!feeder3.cambrium.nl!feed.tweaknews.nl!
feed10.multikabel.net!multikabel.net!feed20.multikabel.net!news2.euro.net!
62.253.162.218.MISMATCH!news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!
news.highwinds-media.com!newspeer1-win.ntli.net!newsfe3-win.ntli.net.POSTED!
53ab2750!not-for-mail
From: "Brian Reay" <see@website.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
<f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
Subject: Re: Putting the Ham back into Ham Radio?
Lines: 54
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <l8sVh.1937$Ca7.573@newsfe3-win.ntli.net>
Date: Wed, 18 Apr 2007 17:00:01 GMT
NNTP-Posting-Host: 82.2.60.169
X-Complaints-To: http://www.virgin.net/netreport
X-Trace: newsfe3-win.ntli.net 1176915601 82.2.60.169 (Wed, 18 Apr 2007 18:00:01
BST)
NNTP-Posting-Date: Wed, 18 Apr 2007 18:00:01 BST
Organization: Virgin Net Usenet Service
Xref: g2news1.google.com uk.radio.amateur:109774 rec.radio.amateur.homebrew:13008

"G.A.Evans G4SDW" <me@privacy.net> wrote in message
news:f04fdb$h2n$1@aioe.org...
 >
> What you have quoted below is most certainly _NOT_
> a support for the proposal. There is no suggestion of what
> the biscuits might be; no suggestion of what the standard interfaces
> between biscuits might be; no suggestion of what the mechanical
```

> arrangements migth be; no proposals of component sets.

Well Gareth, the idea was yours and I was rather hoping you'd supply, at
some point, those details.

> In fact, there has been _NO_ support whatsoever for the
> proposal that _WE_ all act together to save Ham Radio
> from the predations of the RSCB and other destructive influences.
>
> What has there been?
>
> Why, merely an examination of means whereby the proposer
> himself might gain some attention and reflected glory from
> the actions of others and to set in place,

Not really, if you'd prefer to "do" your own website, please do. I'll just
promote you work via a link etc.   I read SPRAT and will happily buy PW if
you get published there.

> perhaps, the
> groundwork for a campaign of further abuse, as is his wont.

How does that work then? All I'm suggesting is support for your idea- which
I really do think is a good one. I'm happy to promote it but you will need
some more " flesh on the bones". Now, if you idea doesn't take off because
you don't publish your ideas, whose fault it that?

> Web-sites? SPRAT? This is merely stating the bleeding
> obvious and as a claim for having supported the proposal
> it is _NUGATORY_ in the extreme.

Well, so far we've had the initial idea (which is a good one), an offer of
some "promotion", and little else from you. I'd hate to see this idea die
so common on, where is your material?

--
73
Brian, G8OSN
www.g8osn.org.uk

Now your amateur licence is free, why not send at least �15 per year to
support the
Radio Communications Foundation or STELAR?

From -5587873625776889623
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news1.google.com!news.glorb.com!
aioe.org!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Wed, 18 Apr 2007 18:20:08 +0100
Organization: Aioe.org NNTP Server
Lines: 20
Message-ID: <f05k07$ts3$1@aioe.org>
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
<f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:109776 rec.radio.amateur.homebrew:13009

You're missing the point of my suggestion, and no doubt
being deliberately perverse, which was that we should
all act together in such a scheme to counteract the
damage that the RSCB is doing.

The first move for a joint approach is to canvass for
support.

Interesting that you of all people should be trying to
make it seem that you are supporting this campaign against
the RSCB, is it not?

"Brian Reay" <see@website.invalid> wrote in message
news:l8sVh.1937$Ca7.573@newsfe3-win.ntli.net...
>
> Well, so far we've had the initial idea (which is a good one), an offer of
> some "promotion", and little else from you. I'd hate to see this idea die
> so common on, where is your material?

From 6468959892948842042
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!feeder3.cambrium.nl!feeder5.cambrium.nl!
feed.tweaknews.nl!68.142.88.75.MISMATCH!hwmnpeer01.ams!news-out.ntli.net!
newsrout1-gui.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!

newsfe7-win.ntli.net.POSTED!53ab2750!not-for-mail
From: "Brian Reay" <see@website.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
<f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org>
Subject: Re: Putting the Ham back into Ham Radio?
Lines: 46
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <iCsVh.3693$nh7.873@newsfe7-win.ntli.net>
Date: Wed, 18 Apr 2007 17:31:58 GMT
NNTP-Posting-Host: 82.2.60.169
X-Complaints-To: http://www.virgin.net/netreport
X-Trace: newsfe7-win.ntli.net 1176917518 82.2.60.169 (Wed, 18 Apr 2007 18:31:58 BST)
NNTP-Posting-Date: Wed, 18 Apr 2007 18:31:58 BST
Organization: Virgin Net Usenet Service
Xref: g2news1.google.com uk.radio.amateur:109778 rec.radio.amateur.homebrew:13010

"G.A.Evans G4SDW" <me@privacy.net> wrote in message
news:f05k07$ts3$1@aioe.org...
> You're missing the point of my suggestion, and no doubt
> being deliberately perverse, which was that we should
> all act together in such a scheme

And I've done a bit, maybe you can now do a bit. I admit no one else seems to be rushing to help but, unless they see some progress, they will think your intentions are less than genuine. The best way to tackle this is for your to provide some more "flesh on the bones".

>
> The first move for a joint approach is to canvass for
> support.

No one else seems to be rushing to help but, unless they see some progress, they will think your intention isn't genuine. Conversely, if you provide some more "flesh on the bones", then people are more likely to support the project.

> Interesting that you of all people should be trying to
> make it seem that you are supporting this campaign against
> the RSCB, is it not?

Who are the RSCB? I don't see this "campaign" as being against anyone. I do see your idea as a vehicle to promote home construction etc. so I am happy to support it.

So, where are those ideas? If you'd rather I didn't promote your work via my

website just say so and "do your own thing". However, having sown the idea,
you need to build on it ASAP- otherwise some might think your intentions are
less than genuine.

--
73
Brian, G8OSN
www.g8osn.org.uk

Now your amateur licence is free, why not send at least �15 per year to
support the
Radio Communications Foundation or STELAR?

From -1348256744691321126
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out02a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
news.mailgate.org!nntp.infostrada.it!newsfeed01.sul.t-online.de!t-online.de!
solnet.ch!solnet.ch!news.clara.net!wagner.news.clara.net!nntp-peering.plus.net!
ptn-nntp-feeder01.plus.net!ptn-nntp-spool02.plus.net!ptn-nntp-spool01.plus.net!
ptn-nntp-reader02.plus.net!not-for-mail
Date: Wed, 18 Apr 2007 18:40:51 +0100
From: Somebody <Somebody@Null.org>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
References: <evvkn4$236$1@aioe.org> <f029r1$6kk$2@aioe.org>
<f038ff$1f1$1@aioe.org> <1E9Vh.1142$G64.878@newsfe2-gui.ntli.net>
<1faa23d8n26oamc2o9d5or2mosj6uebfiq@4ax.com> <f04fdb$h2n$1@aioe.org>
<l8sVh.1937$Ca7.573@newsfe3-win.ntli.net> <f05k07$ts3$1@aioe.org>
In-Reply-To: <f05k07$ts3$1@aioe.org>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 36
Message-ID: <4626581b$0$8736$ed2619ec@ptn-nntp-reader02.plus.net>
Organization: Customer of PlusNet plc (http://www.plus.net)
NNTP-Posting-Host: 5ebc1005.ptn-nntp-reader02.plus.net
X-Trace: DXC=bK<5=Dl=F8hWTAocdSkN_higd3Y`7Rb;n37XnI;
[OUCdG`jPeGcW;ikKa=PiOmn>Ce`i4i1QD1@RoMaD9\a3b<^f
X-Complaints-To: abuse@plus.net
Xref: g2news1.google.com uk.radio.amateur:109779 rec.radio.amateur.homebrew:13011

G.A.Evans G4SDW wrote:

> You're missing the point of my suggestion, and no doubt
> being deliberately perverse, which was that we should
> all act together in such a scheme to counteract the
> damage that the RSCB is doing.
>
> The first move for a joint approach is to canvass for
> support.
>
> Interesting that you of all people should be trying to
> make it seem that you are supporting this campaign against
> the RSCB, is it not?
>
> "Brian Reay" <see@website.invalid> wrote in message
> news:l8sVh.1937$Ca7.573@newsfe3-win.ntli.net...
>> Well, so far we've had the initial idea (which is a good one), an offer of
>> some "promotion", and little else from you. I'd hate to see this idea die
>> so common on, where is your material?
>
>

A couple of points should be made here:

1. There is no such thing as the RSCB.

2. In your original post, you said "Might we all act together to produce
a series of "biscuits" that could then be assembled Lego-like fashion to
produce any rig or test equipment?". This appears to be an admirable
suggestion to help newcomers to electronics and amateur radio, not a
call to arms against a non-existent organisation called the RSCB.

3. You seem to come up with many questions in this newsgroup but sadly
never seem to follow on with helpful solutions. It would be extremely
helpful if you did, so please do as I would be very interested.

Thank you Mr. Evans.

From 6502390004647796552
X-Google-Thread: fc2a5,2eb74dfd14b4d25c
X-Google-Thread: fc8b1,2eb74dfd14b4d25c
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y5g2000hsa.googlegroups.com!not-for-mail
From: "Ross, NS7F" <rjtucke@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Best ARRL handbook editions?
Date: 11 Apr 2007 17:45:52 -0700
Organization: http://groups.google.com
Lines: 34
Message-ID: <1176338752.579875.155420@y5g2000hsa.googlegroups.com>
References: <1176323867.233519.199530@b75g2000hsg.googlegroups.com>
   <slrnf1qkoj.b4n.gsm@cable.mendelson.com>

NNTP-Posting-Host: 70.184.90.43
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176338753 24609 127.0.0.1 (12 Apr 2007 00:45:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 12 Apr 2007 00:45:53 +0000 (UTC)
In-Reply-To: <slrnf1qkoj.b4n.gsm@cable.mendelson.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.3)
Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y5g2000hsa.googlegroups.com; posting-host=70.184.90.43;
   posting-account=Z00KWA0AAAAKEHY2UyS3wqEckPJYZh9S
Xref: g2news1.google.com rec.radio.amateur.homebrew:12911
rec.radio.amateur.boatanchors:11251

On Apr 11, 2:29 pm, g...@mendelson.com (Geoffrey S. Mendelson) wrote:
> NS7F wrote:
> > I have discovered how much fun tubes can be, and am in the process of
> > planning one or more transmitters to go along with my 2-tube
> > regenerative receiver. Now, I'm only 23 years old, so I'm in the
> > process of researching hollow state technology. Could you please put
> > together a short list of the "best" ARRL handbook editions? I have 99
> > and 05- I'm just looking for a few years to watch for on amazon, etc.
> > Of course, recommendations for other books would be appreciated, too,
> > but I'm on a tight budget...
>
> IMHO what you should do is go to a library and find where the major
> "houscleaning" was done and then get the previous edition. For example,
> I have a 1995 (blue) edition, and it was much better IMHO than the
> 1996 (red) which I also have.
>
> In any case, collecting a set of them may not be of much use to you.
>
> Tubes have not changed much in a long time, so getting an early edittion
> with lots of tube data and then copies of articles you want may be
> a much better use of money and space.
>
> 73.
>
> Geoff.
>
> --
> Geoffrey S. Mendelson, Jerusalem, Israel g...@mendelson.com N3OWJ/4X1GM
> IL Voice: (07)-7424-1667 Fax ONLY: 972-2-648-1443 U.S. Voice: 1-215-821-1838
> Visit my 'blog athttp://geoffstechno.livejournal.com/

Right. So far, I am looking at the 40th ed (1963), as it has several
good tube projects.

From 1357107320831793943

```
X-Google-Thread: fc2a5,2eb74dfd14b4d25c
X-Google-Thread: fc8b1,2eb74dfd14b4d25c
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!spln!extra.newsguy.com!
newsp.newsguy.com!news1
From: Registered User <n4jvp@ix.netcom.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Best ARRL handbook editions?
Date: Wed, 11 Apr 2007 20:54:43 -0400
Organization: subdevo.com
Lines: 16
Message-ID: <oe0r13ltkog6mk6sthiidcrltlbk4j67e1@4ax.com>
References: <1176323867.233519.199530@b75g2000hsg.googlegroups.com>
Reply-To: n4jvp@ix.netcom.com
NNTP-Posting-Host: pd4d0bfbfff00000042b7e948cc053582f643419cdd98ac7c.newsdawg.com
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Newsreader: Forte Agent 3.3/32.846
Xref: g2news1.google.com rec.radio.amateur.homebrew:12912
rec.radio.amateur.boatanchors:11252

On 11 Apr 2007 13:37:47 -0700, "NS7F" <rjtucke@gmail.com> wrote:

>Hello all,
>I have discovered how much fun tubes can be, and am in the process of
>planning one or more transmitters to go along with my 2-tube
>regenerative receiver. Now, I'm only 23 years old, so I'm in the
>process of researching hollow state technology. Could you please put
>together a short list of the "best" ARRL handbook editions?

My 'old' ARRL Handbooks are the 1936, 1947 and 1963 editions. I am
still looking for an inexpensive mid-fifties edition. Having one
edition from each decade seems to make the most sense as they do not
radically change from year to year.

73 de n4jvp
Fritz



From -1963043332925869458
X-Google-Thread: fc2a5,f35c0325740dfa06,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!newsgate.cistron.nl!
xs4all!news2.euro.net!66.150.105.54.MISMATCH!nntpserver.com!zeus.nntpserver.com!
10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: The Harry Thomas Show - week in review 04/11/07 Small World , Big News
From: Harry Thomas <harrythomas@nospam.netzero.net>
Organization: pfabf
Message-ID: <Xns99104FDD8C663harrythomasnospamnet@66.150.105.47>
```

User-Agent: Xnews/5.04.25
Date: 12 Apr 2007 10:58:19 GMT
Lines: 54
NNTP-Posting-Date: 12 Apr 2007 10:58:19 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12913

The Harry Thomas Show - week in review 04/11/07 Small World , Big News
http://harrythomas.info
Listen to the show right from the website.

This weeks topics include - NAU opposition, states rejecting Real ID,Bilderburg, Media Deception, E.Howard Hunt, Global Warming , Global Government, Ron Paul on the Federal Reserve Scam, Police State issues, new websites and much more

ANNOUNCEMENT : New and Improved Sound now posted in mp3 Format

The Return of The Harry Thomas Show

The "garage talk show" that is reaching out to Worldwide Usenet

after hiatus he is back to inform the people of deception and corruption.

Hosted by Harry Thomas;

The Harry Thomas Show - week in review is a 4 segment show. We have had

tremendous response and we want to thank our Listeners.

Keep them e-mails coming and thanks for your support !

harrythomas@netzero.net

The Show is recorded on Wednesdays
Posted to usenet on Wednesday Nights to;
alt.binaries.great , - alt.binaries.radio.misc , -
alt.binaries.multimedia.documentary -alt.binaries.sounds.radio.misc, -
alt.binaries.sounds.radio, - alt.binaries.sounds.wma, - and
alt.binaries.multimedia - alt.binaries.mp3
The NFO (information) file posted both days to ;

alt.pirate.radio, - alt.internet.talk.radio, - alt.talk.radio, -
rec.radio.amateur.homebrew, - rec.radio.misc, -
alt.radio.international, - rec.radio.amateur, - alt.radio.talk, -
alt.radio.internet, - and alt.internet.talk-radio

Reposted to usenet on Saturdays to;
alt.binaries.sounds.radio.repost and alt.binaries.multimedia.repost
These are binary newsgroups.

check website for more information

http://harrythomas.mysite.com/

Copies of this show can be e-mailed upon request inquire at;
harrythomas@netzero.net

--
Posted via a free Usenet account from http://www.teranews.com

---

From 5949510419337916911
X-Google-Thread: fc2a5,46f8075b57bf98c,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y5g2000hsa.googlegroups.com!not-for-mail
From: mfarrukhaslam@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: How to make DDS AD9854 output Phase-Coherent ?
Date: 12 Apr 2007 09:28:39 -0700
Organization: http://groups.google.com
Lines: 12
Message-ID: <1176395319.725833.144850@y5g2000hsa.googlegroups.com>
NNTP-Posting-Host: 129.234.4.10
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176395320 8523 127.0.0.1 (12 Apr 2007 16:28:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 12 Apr 2007 16:28:40 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.0),gzip(gfe),gzip(gfe)
X-HTTP-Via: 1.0 squirrel.dur.ac.uk:8080 (squid/2.6.STABLE12)
Complaints-To: groups-abuse@google.com
Injection-Info: y5g2000hsa.googlegroups.com; posting-host=129.234.4.10;
   posting-account=k9KXTA0AAABTuZWNACQRQPKgQauax6fG
Xref: g2news1.google.com rec.radio.amateur.homebrew:12914

Dear all,

I am new to DDS AD9854 and was wondering if you can help me with a specific problem not directly solvable.

My main aim is to generate a simple chirp signal which should be Phase-Coherent. The standard output is Phase-Continuous. Does anyone have any suggestions how to do it ?

Many Thanks.

```
From 4274324942558565875
X-Google-Thread: fcc6e,2d135ed1cf9610f8,start
X-Google-Thread: fc2a5,2d135ed1cf9610f8,start
X-Google-Attributes: gidfcc6e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!sn-xt-sjc-04!sn-xt-sjc-07!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Smith Chart program
Date: Thu, 12 Apr 2007 11:25:45 -0700
Organization: EZNEC Antenna Software
Message-ID: <131sudifreks2e4@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 7
Xref: g2news1.google.com rec.radio.amateur.antenna:39509
rec.radio.amateur.homebrew:12915
```

I'd appreciate any recommendations for an inexpensive Smith chart based program which can be used for the design of basic matching networks and the like. I'm looking for something along the line of MicroSmith or WinSMITH, neither of which is any longer available.

Thanks,
Roy Lewallen, W7EL

```
From -5304710719499079429
X-Google-Thread: fcc6e,2d135ed1cf9610f8
X-Google-Thread: fc2a5,2d135ed1cf9610f8
X-Google-Attributes: gidfcc6e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Smith Chart program
Followup-To: rec.radio.amateur.antenna
Date: 12 Apr 2007 18:31:55 GMT
Lines: 22
Message-ID: <slrnf1suor.14n6.bit-bucket@shell.config.com>
References: <131sudifreks2e4@corp.supernews.com>
Reply-To: Reply to the .sig address <NOSPAM_bit-bucket@config.com>
X-Trace: individual.net J0g7sAOWpK08Ds0QGfvCPQFbrNaUg8V0NPwZmWdluEVKiT5R2u
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.antenna:39510
```

```
rec.radio.amateur.homebrew:12916

["Followup-To:" header set to rec.radio.amateur.antenna.]
On Thu, 12 Apr 2007 11:25:45 -0700, Roy Lewallen wrote:
> I'd appreciate any recommendations for an inexpensive Smith chart based
> program which can be used for the design of basic matching networks and
> the like. I'm looking for something along the line of MicroSmith or
> WinSMITH, neither of which is any longer available.


  http://www.jcoppens.com/soft/linsmith/index.en.php

See also:

  http://education.tm.agilent.com/index.cgi?CONTENT_ID=5

    using a JAVA-enabled browser.  Pretty neat, that.

73
Jonesy
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    *** Killfiling google posts: <http://jonz.net/ng.htm>


From -1561157428773213938
X-Google-Thread: fc2a5,2eb74dfd14b4d25c
X-Google-Thread: fc8b1,2eb74dfd14b4d25c
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.194.250.MISMATCH!transit3.readnews.com!news-out.readnews.com!panix!
panix2.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Best ARRL handbook editions?
Date: Thu, 12 Apr 2007 15:10:57 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 72
Message-ID: <Pine.NEB.4.64.0704121451330.3692@panix2.panix.com>
References: <1176323867.233519.199530@b75g2000hsg.googlegroups.com>
NNTP-Posting-Host: panix2.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1176405058 17782 166.84.1.2 (12 Apr 2007 19:10:58 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 12 Apr 2007 19:10:58 +0000 (UTC)
To: NS7F <rjtucke@gmail.com>
In-Reply-To: <1176323867.233519.199530@b75g2000hsg.googlegroups.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:12917
rec.radio.amateur.boatanchors:11257
```

See below...

On Wed, 11 Apr 2007, NS7F wrote:

> Hello all,
> I have discovered how much fun tubes can be, and am in the process of planning one or more transmitters to go along with my 2-tube regenerative receiver. Now, I'm only 23 years old, so I'm in the process of researching hollow state technology. Could you please put together a short list of the "best" ARRL handbook editions? I have 99 and 05- I'm just looking for a few years to watch for on amazon, etc. Of course, recommendations for other books would be appreciated, too, but I'm on a tight budget...
>
> Thank you very much in advance for your advice.
>
> Ross, NS7F
>

I am 63, and retired, and am also having a ball building my own tube gear.

Generally, solid state began to take over all the low level circuitry in the ARRL handbooks in the 1960s and particularly afterwards. There was a blend (between tube and solid state) at some interval but I don't look at the later handbooks at all any more. My handbooks are from early 1960s and go back.

The "Radio Handbook" by Bill Orr, also has editions going back, annually or almost annually, for a long time and has a different flavor but also good, and alternative presentations including very nice schematics and photos. The Radio Society of Great Britain (I think) also sponsored ham radio handbooks but I think may also be geared to European tube types which are different (at least to some degree) than US "valves" (as they call them), but you might try to do some research on that.

You might want to think about the tube evolutions: the very early tubes are harder to find and more expensive and particularly the tube sockets.

Around the 1940s we had mostly octal base (key plus 8 pins) and they are easy to find from tube supliers, but many were metal (not good if you like to see those filaments light up). If you like battery filament types (1.4 v for single C cell, 2.0 v for lead-acid cells, and 2.8 v, for two C cells in series) you have a small variety of nice 7 pin tubes (eg. 1T4, 1U4, etc), and a few 8 pin octal tubes (eg. 1A7, 1H4, etc). Prior tubes had poorer specs and the sockets are hard to find. The so-called Loctal tubes (very thin pins and special 'click in' keys)..you just about can't find sockets for and they would be the hardest to build homemade sockets for, and, they themselves are not easy to find, either (I think they were mostly for car radios). Most of these tubes will run plate voltages on a handful of 9 volt batteries you can get at Dollar Tree for two for a buck, and you hook them in series with each other since the connectors are all male-female and otherwise don't need much to hold them together if you just lay them on the table and hook aligator clips to the terminal negative and terminal positive. A lot of the earlier tubes have difficult to find sockets (but Radio-Daze, in New York, has a lot of sockets).

Public libraries can be a resource but be aware that most smaller ones "discard" their older holdings and replace them with newer versions. Your best bet is to ask at the reference desk to find out how you can find which library has the older editions. The _central_ or _main_ branch (in your state) may be the only one that keeps older editions but you should be able to arrange an inter-library loan where you can borrow the book for, say, two weeks, and then if you like it, look for a copy on Amazon.com or www.addall.com or www.bookfinder.com or www.abe.com or www.alibris.com where you will find used copies at generally very reasonable prices. To find booksales where used books are very cheap, go to: www.booksalefinder.com

Good luck.

```
From 328458579694763832
X-Google-Thread: fcc6e,2d135ed1cf9610f8
X-Google-Thread: fc2a5,2d135ed1cf9610f8
X-Google-Attributes: gidfcc6e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!newsfeed.bit.nl!
213.239.142.2.MISMATCH!feed.xsnews.nl!border-1.ams.xsnews.nl!sn-xt-ams-06!sn-xt-
ams-05!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Smith Chart program
Date: Thu, 12 Apr 2007 13:40:37 -0700
Organization: EZNEC Antenna Software
Message-ID: <131t6af1stpfp1d@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
References: <131sudifreks2e4@corp.supernews.com>
In-Reply-To: <131sudifreks2e4@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 14
Xref: g2news1.google.com rec.radio.amateur.antenna:39522
rec.radio.amateur.homebrew:12918
```

Thanks for the suggestions, but I see I need to be more specific about what I need.

I'm looking for a Windows-based program that runs on a local machine rather than remotely as at a web site. The objective is to find a program for EZNEC to write input files for, so that its frequency sweep impedance data can be easily and directly imported into the Smith chart program for visual analysis and to aid in designing narrow and broadband matching networks for antennas. EZNEC originally did this for MicroSmith, then WinSMITH input file writing was added when MicroSmith became unavailable. Now WinSMITH is also unavailable, so I'm looking for another one which I can adapt EZNEC to.

Roy Lewallen, W7EL

```
From -4387203131646567545
X-Google-Thread: fcc6e,2d135ed1cf9610f8
X-Google-Thread: fc2a5,2d135ed1cf9610f8
X-Google-Attributes: gidfcc6e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-
mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Smith Chart program
Date: 12 Apr 2007 15:23:30 -0700
Organization: http://groups.google.com
Lines: 29
Message-ID: <1176416610.202140.277850@q75g2000hsh.googlegroups.com>
References: <131sudifreks2e4@corp.supernews.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176416610 9201 127.0.0.1 (12 Apr 2007 22:23:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 12 Apr 2007 22:23:30 +0000 (UTC)
In-Reply-To: <131sudifreks2e4@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.11)
Gecko/20070312 Firefox/1.5.0.11,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q75g2000hsh.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news1.google.com rec.radio.amateur.antenna:39528
rec.radio.amateur.homebrew:12919
```

On Apr 12, 11:25 am, Roy Lewallen <w...@eznec.com> wrote:

> I'd appreciate any recommendations for an inexpensive Smith chart based
> program which can be used for the design of basic matching networks and
> the like. I'm looking for something along the line of MicroSmith or
> WinSMITH, neither of which is any longer available.
>
> Thanks,
> Roy Lewallen, W7EL

Hi Roy,

Darn, sorry that WinSMITH is no longer available. Hope you'll
continue to support that format for those of us with that program.
Based on what I just found, I don't have any reason to quit using it.

You might try LLSmith from http://tools.rfdude.com/RFdude_Smith_Chart_Program/
RFdude_smith_chart_program.html.
I don't like it as much as WinSMITH, but it looks like it does
somewhat similar things. I found it via a Google search, which led me
among other places to http://www.sss-mag.com/smith.html and
http://www.circuitsage.com/matching.html. The latter one provided the
link to LLSmith. I think I have a useable version of Motorola's Smith
chart program somewhere, but the version I just downloaded is pure
garbage from my point of view; it may work but it's so awkward that
it's worthless to me.

Cheers,
Tom

From 6993817968648643544
X-Google-Thread: fcc6e,2d135ed1cf9610f8
X-Google-Thread: fc2a5,2d135ed1cf9610f8
X-Google-Attributes: gidfcc6e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.sdsu.edu!sn-xt-sjc-03!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Smith Chart program
Date: Thu, 12 Apr 2007 15:39:44 -0700
Organization: EZNEC Antenna Software
Message-ID: <131td9q38uvg182@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
References: <131sudifreks2e4@corp.supernews.com>
<1176416610.202140.277850@q75g2000hsh.googlegroups.com>
In-Reply-To: <1176416610.202140.277850@q75g2000hsh.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 24
Xref: g2news1.google.com rec.radio.amateur.antenna:39529
rec.radio.amateur.homebrew:12920

K7ITM wrote:
>
> Darn, sorry that WinSMITH is no longer available. Hope you'll
> continue to support that format for those of us with that program.
> Based on what I just found, I don't have any reason to quit using it.
>
> You might try LLSmith from http://tools.rfdude.com/RFdude_Smith_Chart_Program/
RFdude_smith_chart_program.html.

> I don't like it as much as WinSMITH, but it looks like it does
> somewhat similar things. I found it via a Google search, which led me
> among other places to http://www.sss-mag.com/smith.html and
> http://www.circuitsage.com/matching.html. The latter one provided the
> link to LLSmith. I think I have a useable version of Motorola's Smith
> chart program somewhere, but the version I just downloaded is pure
> garbage from my point of view; it may work but it's so awkward that
> it's worthless to me.

Thanks, I'll look those up. Negative recommendations are as useful as positive ones, so thanks for those too.

Don't worry, EZNEC will continue to write your choice of either MicroSmith or WinSMITH files as well as whatever program I choose for their successor.

Roy Lewallen, W7EL

From -2506826549542749268
X-Google-Thread: fc2a5,f35c0325740dfa06
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 12 Apr 2007 17:46:29 -0500
From: "John Doe" <hgorden@adelphia.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Xns99104FDD8C663harrythomasnospamnet@66.150.105.47>
Subject: Re: The Harry Thomas Show - week in review 04/11/07 Small World , Big News
Date: Thu, 12 Apr 2007 18:48:38 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <YbmdnRPPd-xYK4PbnZ2dnUVZ_sGqnZ2d@adelphia.com>
Lines: 65
NNTP-Posting-Host: 76.100.201.181
X-Trace: sv3-e4tBPMMq+LMXxe/Q6jFke7z24Nob7sdiSOEr9/NPLJ7AXu6g56gCdK77vC4RwvZV5PaKPosMa45YuT+!Ad3gGwJEiCo0kA3bojeoXL9rLWLZbtA/2WgukTGqEhpPhg5PjWr/X7IjvFTZdU4xVWqjPHO3YidZ!wHgkcd9eJIVTnlT7peIyZ9I=
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12921

```
And just what does this crap have to do with this news group?

"Harry Thomas" <harrythomas@nospam.netzero.net> wrote in message
news:Xns99104FDD8C663harrythomasnospamnet@66.150.105.47...
> The Harry Thomas Show - week in review 04/11/07 Small World , Big News
> http://harrythomas.info
> Listen to the show right from the website.
>
> This weeks topics include - NAU opposition, states rejecting Real
> ID,Bilderburg, Media Deception, E.Howard Hunt, Global Warming , Global
> Government, Ron Paul on the Federal Reserve Scam, Police State issues,
> new websites and much more
>
> ANNOUNCEMENT : New and Improved Sound now posted in mp3 Format
>
> The Return of The Harry Thomas Show
>
> The "garage talk show" that is reaching out to Worldwide Usenet
>
> after hiatus he is back to inform the people of deception and corruption.
>
> Hosted by Harry Thomas;
>
> The Harry Thomas Show - week in review is a 4 segment show. We have had
>
> tremendous response and we want to thank our Listeners.
>
> Keep them e-mails coming and thanks for your support !
>
> harrythomas@netzero.net
>
>
> The Show is recorded on Wednesdays
> Posted to usenet on Wednesday Nights    to;
> alt.binaries.great , - alt.binaries.radio.misc , -
> alt.binaries.multimedia.documentary -alt.binaries.sounds.radio.misc, -
> alt.binaries.sounds.radio, - alt.binaries.sounds.wma, -  and
> alt.binaries.multimedia - alt.binaries.mp3
> The NFO (information) file posted both days to ;
>
> alt.pirate.radio, -  alt.internet.talk.radio, -  alt.talk.radio,  -
> rec.radio.amateur.homebrew, -  rec.radio.misc, -
> alt.radio.international, -  rec.radio.amateur,  - alt.radio.talk, -
> alt.radio.internet, - and alt.internet.talk-radio
>
> Reposted to usenet on Saturdays to;
> alt.binaries.sounds.radio.repost and alt.binaries.multimedia.repost
> These are binary newsgroups.
>
> check website for more information
> http://harrythomas.mysite.com/
>
>
```

> Copies of this show can be e-mailed upon request inquire at;
> harrythomas@netzero.net
>
>
> ---
>
> --
> Posted via a free Usenet account from http://www.teranews.com
>

From 4874180040062177705
X-Google-Thread: fcc6e,2d135ed1cf9610f8
X-Google-Thread: fc2a5,2d135ed1cf9610f8
X-Google-Attributes: gidfcc6e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w1g2000hsg.googlegroups.com!not-for-mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Smith Chart program
Date: 12 Apr 2007 15:51:19 -0700
Organization: http://groups.google.com
Lines: 22
Message-ID: <1176418279.488131.265110@w1g2000hsg.googlegroups.com>
References: <131sudifreks2e4@corp.supernews.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176418280 13583 127.0.0.1 (12 Apr 2007 22:51:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 12 Apr 2007 22:51:20 +0000 (UTC)
In-Reply-To: <131sudifreks2e4@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.11)
Gecko/20070312 Firefox/1.5.0.11,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: w1g2000hsg.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news1.google.com rec.radio.amateur.antenna:39530
rec.radio.amateur.homebrew:12922

On Apr 12, 11:25 am, Roy Lewallen <w...@eznec.com> wrote:
> I'd appreciate any recommendations for an inexpensive Smith chart based
> program which can be used for the design of basic matching networks and
> the like. I'm looking for something along the line of MicroSmith or
> WinSMITH, neither of which is any longer available.
>
> Thanks,
> Roy Lewallen, W7EL

Additional comment: if you write impedance files in standard network
analyzer format, they can be used by a lot of programs. I believe you
can find fairly detailed descriptions of the .s1p format on the web.
In particular, RFSim99 can read such files and use them in a 1-port
representation. It will even do an automatic L match to an impedance,
and will display S11 on a Smith chart. (But I'm remembering a problem
if you write them in dB format, something about that RFSim99 uses
10^(dB/10) instead of 10^(dB/20) to convert them to linear before it
uses them...)

Cheers,
Tom

From 3706690607971632797
X-Google-Thread: fcc6e,2d135ed1cf9610f8
X-Google-Thread: fc2a5,2d135ed1cf9610f8
X-Google-Attributes: gidfcc6e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y5g2000hsa.googlegroups.com!not-for-mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Smith Chart program
Date: 12 Apr 2007 15:54:38 -0700
Organization: http://groups.google.com
Lines: 25
Message-ID: <1176418478.644338.202130@y5g2000hsa.googlegroups.com>
References: <131sudifreks2e4@corp.supernews.com>
   <131t6af1stpfp1d@corp.supernews.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176418479 14138 127.0.0.1 (12 Apr 2007 22:54:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 12 Apr 2007 22:54:39 +0000 (UTC)
In-Reply-To: <131t6af1stpfp1d@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.11)
Gecko/20070312 Firefox/1.5.0.11,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y5g2000hsa.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news1.google.com rec.radio.amateur.antenna:39531
rec.radio.amateur.homebrew:12923

On Apr 12, 1:40 pm, Roy Lewallen <w...@eznec.com> wrote:
> Thanks for the suggestions, but I see I need to be more specific about
> what I need.
>
> I'm looking for a Windows-based program that runs on a local machine
> rather than remotely as at a web site. The objective is to find a

> program for EZNEC to write input files for, so that its frequency sweep
> impedance data can be easily and directly imported into the Smith chart
> program for visual analysis and to aid in designing narrow and broadband
> matching networks for antennas. EZNEC originally did this for
> MicroSmith, then WinSMITH input file writing was added when MicroSmith
> became unavailable. Now WinSMITH is also unavailable, so I'm looking for
> another one which I can adapt EZNEC to.
>
> Roy Lewallen, W7EL

OK, I gotta quit looking at Smith chart stuff...

Are you sure WinSMITH is no longer available? See http://www.scitechpub.com/WinSmith.htm.
Looks pretty current to me. My 2.0 version was provided on floppy,
and I see they've gotten into the 21st century and have it on CD-ROM.

Cheers,
Tom

From 8401090545949272699
X-Google-Thread: fcc6e,2d135ed1cf9610f8
X-Google-Thread: fc2a5,2d135ed1cf9610f8
X-Google-Attributes: gidfcc6e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!newssvr19.news.prodigy.net.POSTED!69521213!not-for-mail
From: Bob <bobZstein@sbcglobal.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.2) Gecko/20070222 SeaMonkey/1.1.1
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Smith Chart program
References: <131sudifreks2e4@corp.supernews.com>
In-Reply-To: <131sudifreks2e4@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 15
Message-ID: <aOyTh.18$Yo2.3@newssvr19.news.prodigy.net>
NNTP-Posting-Host: 75.30.231.225
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr19.news.prodigy.net 1176418566 ST000 75.30.231.225 (Thu, 12 Apr 2007 18:56:06 EDT)
NNTP-Posting-Date: Thu, 12 Apr 2007 18:56:06 EDT
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
S[O]CU^DWJTSP_@YMZJ_Q\@TJ_ZTB\MV@BT]UEK@YUDUWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
TINTDDMVW[X\THOPXZRVOCJTUTPC_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM

Date: Thu, 12 Apr 2007 15:55:57 -0700
Xref: g2news1.google.com rec.radio.amateur.antenna:39532
rec.radio.amateur.homebrew:12924

Roy Lewallen wrote:
> I'd appreciate any recommendations for an inexpensive Smith chart based
> program which can be used for the design of basic matching networks and
> the like. I'm looking for something along the line of MicroSmith or
> WinSMITH, neither of which is any longer available.
>
> Thanks,
> Roy Lewallen, W7EL

Try SmartSmith for Windows by W9DMK.

Bob, w6nbi

--
When replying direct, remove the Z in my email address.

From -2367067867433665963
X-Google-Thread: fcc6e,2d135ed1cf9610f8
X-Google-Thread: fc2a5,2d135ed1cf9610f8
X-Google-Attributes: gidfcc6e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 12 Apr 2007 18:26:03 -0500
From: Richard Clark <kb7qhc@comcast.net>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Smith Chart program
Date: Thu, 12 Apr 2007 16:25:36 -0700
Message-ID: <2pft139qvc4jhulqjb665m7975blueos7m@4ax.com>
References: <131sudifreks2e4@corp.supernews.com>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 25
NNTP-Posting-Host: 67.168.144.41
X-Trace: sv3-1gxqkN3nVN+jOBZOOjU/
ExPxwnUWBudHZQS5Wx8RM1v45L4mqD3Ark2b4NyrM4e4soHnKnFWzTLx7sz!
yCrhnz2qTRQ7JvUnrfLXrECxAF+782/BJ6B8ROaUlon4wg+x7QxLdlyerkmIsViZocn3zE9Wz1CZ!
Nn6DVssy/nUjsFr+jzP5+tOOZaI=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.antenna:39535

rec.radio.amateur.homebrew:12925

On Thu, 12 Apr 2007 11:25:45 -0700, Roy Lewallen <w7el@eznec.com>
wrote:

>I'd appreciate any recommendations for an inexpensive Smith chart based
>program which can be used for the design of basic matching networks and
>the like. I'm looking for something along the line of MicroSmith or
>WinSMITH, neither of which is any longer available.
>
>Thanks,
>Roy Lewallen, W7EL

Hi Roy,

There is a very slick one Switzerland:
http://www.fritz.dellsperger.net/downloads.htm
from Dr. Fritz Dellsperger.

It, like your software, has a free but limited use. Getting the full
use one is rather more obscure as there is nothing mentioned at his
site as how to get a key or otherwise obtain full use (more than a
limited number of points). Somewhere, there was the suggestion of
accommodating a user if they emailed, but that never worked for me.

73's
Richard Clark, KB7QHC

From 2718817223091371114
X-Google-Thread: fcc6e,2d135ed1cf9610f8
X-Google-Thread: fc2a5,2d135ed1cf9610f8
X-Google-Attributes: gidfcc6e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news1.google.com!news.glorb.com!
newscon02.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr23.news.prodigy.net.POSTED!00eff025!not-for-
mail
From: Cecil Moore <nospam@w5dxp.com>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Smith Chart program
References: <131sudifreks2e4@corp.supernews.com>
<131t6af1stpfp1d@corp.supernews.com>
In-Reply-To: <131t6af1stpfp1d@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 12
Message-ID: <iuzTh.3978$H_5.2946@newssvr23.news.prodigy.net>
NNTP-Posting-Host: 70.239.200.97
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr23.news.prodigy.net 1176421390 ST000 70.239.200.97 (Thu, 12 Apr

2007 19:43:10 EDT)
NNTP-Posting-Date: Thu, 12 Apr 2007 19:43:10 EDT
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
Q[R_@SZG@@WCC^H]]RKB_UDAZZ\DPCPDLXUNNH\KMAVNDQUBLNTC@AWZWDXZXQ[K\FFSKCVM@F_N_DOBWV
WG__LG@VVOIPLIGX\
\BU_B@\P\PFX\B[APHTWAHDCKJF^NHD[YJAZMCY_CWG[SX\Y]^KC\HSZRWSWKGAY_PC[BQ[BXAS\F\
\@DMTLFZFUE@\VL
Date: Thu, 12 Apr 2007 18:43:12 -0500
Xref: g2news1.google.com rec.radio.amateur.antenna:39538
rec.radio.amateur.homebrew:12926

Roy Lewallen wrote:
> I'm looking for a Windows-based program that runs on a local machine
> rather than remotely as at a web site.

Somebody tell Roy that Robert Lay, W9DMK, has a
SMARTSMITH program that may or may not be what
he is looking for and may or may not be
EZNEC compatible.

http://www.qsl.net/w9dmk/

--
73, Cecil http://www.w5dxp.com

From 5148988647249479013
X-Google-Thread: fc2a5,f35c0325740dfa06
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Nobody <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The Harry Thomas Show - week in review 04/11/07 Small World , Big
News
Date: 13 Apr 2007 02:06:44 GMT
Lines: 5
Message-ID: <slrnf1tpdk.3as.bit-bucket@shell.config.com>
References: <Xns99104FDD8C663harrythomasnospamnet@66.150.105.47> <YbmdnRPPd-
xYK4PbnZ2dnUVZ_sGqnZ2d@adelphia.com>
X-Trace: individual.net mq9Z+CZKqqLctuk2IH7yKQJHhyHWfxXD/PifQwGJX+thh9sHos
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12927

On Thu, 12 Apr 2007 18:48:38 -0500, John Doe wrote:
>
> And just what does this crap have to do with this news group?

And, you just _had_ to quote the entire piece of crap, didn't you?

From 5632960427833905948

X-Google-Thread: fc2a5,afdf2783a90787e7,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w1g2000hsg.googlegroups.com!not-for-mail
From: "on30ng" <on30ng@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Iwatsu SS-5710 O'Scope Manual
Date: 12 Apr 2007 21:16:44 -0700
Organization: http://groups.google.com
Lines: 8
Message-ID: <1176437804.100636.254330@w1g2000hsg.googlegroups.com>
NNTP-Posting-Host: 74.135.146.232
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176437804 21290 127.0.0.1 (13 Apr 2007 04:16:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 13 Apr 2007 04:16:44 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.11)
Gecko/20070312 Firefox/1.5.0.11,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: w1g2000hsg.googlegroups.com; posting-host=74.135.146.232;
posting-account=cHaz4A0AAABSvgBXdvZeKRmzV_BI715_
Xref: g2news1.google.com rec.radio.amateur.homebrew:12928

Anyone have an electronic copy of a manual for the Iwatsu SS-5710
O'Scope?
Just started homebrewing this year (finally) and got me a pretty
decent scope but need a manual.

Thanks.
Dan KB9JLO

From -2817870845743955757
X-Google-Thread: fc2a5,2eb74dfd14b4d25c
X-Google-Thread: fc8b1,2eb74dfd14b4d25c
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.stanford.edu!panix!
panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Best ARRL handbook editions?
Date: 13 Apr 2007 10:24:34 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 18
Message-ID: <evo3r2$gcs$1@panix2.panix.com>
References: <1176323867.233519.199530@b75g2000hsg.googlegroups.com>
<Pine.NEB.4.64.0704121451330.3692@panix2.panix.com>
NNTP-Posting-Host: panix2.panix.com

```
X-Trace: reader2.panix.com 1176474275 25559 166.84.1.2 (13 Apr 2007 14:24:35 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 13 Apr 2007 14:24:35 +0000 (UTC)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12929
rec.radio.amateur.boatanchors:11272

Straydog  <asd@panix.com> wrote:
>
>You might want to think about the tube evolutions: the very early tubes
>are harder to find and more expensive and particularly the tube sockets.

I just want to say that if you want to build your own tube gear, you
should look seriously at compactrons.  Designed for consumer electronics
use, they have some excellent specifications and a lot of elements in
a package.  And they are absolutely dirt cheap because there is no demand
for them on the surplus market at all.

Some of these things are absolutely wonderful performers and available
free for the asking.  12 pins good!
--scott



--
"C'est un Nagra.  C'est suisse, et tres, tres precis."



From 3488447807558606534
X-Google-Thread: fc2a5,5272fafd6d65b5e9,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d57g2000hsg.googlegroups.com!not-for-
mail
From: "Jessie" <freshfreefish@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: PSPICE frequency ananlysis
Date: 13 Apr 2007 08:04:03 -0700
Organization: http://groups.google.com
Lines: 11
Message-ID: <1176476643.603835.64820@d57g2000hsg.googlegroups.com>
NNTP-Posting-Host: 192.35.98.90
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176476644 1819 127.0.0.1 (13 Apr 2007 15:04:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 13 Apr 2007 15:04:04 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d57g2000hsg.googlegroups.com; posting-host=192.35.98.90;
   posting-account=p4vr1Q0AAAD-64zB697Kz9fHxvdn2YiG
Xref: g2news1.google.com rec.radio.amateur.homebrew:12930
```

Hi everyone,

I have a small question about PSPICE. I'm using PSPICE to simulate a colpitts oscillator, and want to know the resonant frequency of the circuit. What should I do to set up the simulation condition? I used the transient simulation and FFT hoping to find the spectrum figure, but it seems if I change the time step the spectrum also changes??? What should I do now? I'll appreciate any of your help!

Jessie

```
From 7000983684296246036
X-Google-Thread: fc2a5,f67d826741435746,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e65g2000hsc.googlegroups.com!not-for-
mail
From: churd@slowfly.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Broadband fixed gain antenna line amp
Date: 13 Apr 2007 08:48:34 -0700
Organization: http://groups.google.com
Lines: 6
Message-ID: <1176479314.501461.102960@e65g2000hsc.googlegroups.com>
NNTP-Posting-Host: 65.32.88.134
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176479314 31713 127.0.0.1 (13 Apr 2007 15:48:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 13 Apr 2007 15:48:34 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e65g2000hsc.googlegroups.com; posting-host=65.32.88.134;
   posting-account=UBOxMw0AAAD8XQDXBvgBKRfjHwAKgEUg
Xref: g2news1.google.com rec.radio.amateur.homebrew:12931
```

In a old Radio Amatuer's Handbook there was a circuit of a single transistor using a ferrite core transformer to get a broadband fixed gain of 6db or so for an antenna line amp. I've lost the Handbook.
Can anyone find it or equivalent and send the info?
Thanks Mr C

```
From 2352654146052622615
X-Google-Thread: fc2a5,5272fafd6d65b5e9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!feed.xsnews.nl!
```

border-1.ams.xsnews.nl!sn-xt-ams-06!sn-xt-ams-04!sn-ams!sn-feed-ams-02!sn-ams!sn-feed-ams-01!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PSPICE frequency ananlysis
Date: Fri, 13 Apr 2007 12:01:32 -0700
Organization: EZNEC Antenna Software
Message-ID: <131vksmpc8lo0d7@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
References: <1176476643.603835.64820@d57g2000hsg.googlegroups.com>
In-Reply-To: <1176476643.603835.64820@d57g2000hsg.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 24
Xref: g2news1.google.com rec.radio.amateur.homebrew:12932

Jessie wrote:
> Hi everyone,
>
> I have a small question about PSPICE. I'm using PSPICE to simulate a
> colpitts oscillator, and want to know the resonant frequency of the
> circuit. What should I do to set up the simulation condition? I used
> the transient simulation and FFT hoping to find the spectrum figure,
> but it seems if I change the time step the spectrum also changes???
> What should I do now? I'll appreciate any of your help!

At resonance, the phase shift through the circuit is zero. Break the loop where it connects to the input of the active device and put a low level source at the input of the active device in place of the loop connection. Do a frequency sweep, plotting phase, and find the frequency where the phase angle at the top of the tank is equal to the phase angle at the capacitor tap. You should be able to do this with a single plot of the phase angle difference.

This is close to the frequency at which the circuit will oscillate. It'll oscillate where the total phase shift around the loop, which is the sum of the shift through the tank and the shift through the active device, is zero.

Roy Lewallen, W7EL

From -8472197870963416541
X-Google-Thread: fc2a5,5272fafd6d65b5e9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y80g2000hsf.googlegroups.com!not-for-mail
From: "AF6AY" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: PSPICE frequency ananlysis
Date: 13 Apr 2007 13:01:06 -0700
Organization: http://groups.google.com
Lines: 88
Message-ID: <1176494466.714154.9470@y80g2000hsf.googlegroups.com>
References: <1176476643.603835.64820@d57g2000hsg.googlegroups.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176494467 6804 127.0.0.1 (13 Apr 2007 20:01:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 13 Apr 2007 20:01:07 +0000 (UTC)
In-Reply-To: <1176476643.603835.64820@d57g2000hsg.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-
ntc-tb12.proxy.aol.com[CFC870B9] (Prism/1.2.0), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: y80g2000hsf.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com rec.radio.amateur.homebrew:12933

On Apr 13, 7:04?am, "Jessie" <freshfreef...@gmail.com> wrote:
> Hi everyone,
>
> I have a small question about PSPICE. I'm using PSPICE to simulate a
> colpitts oscillator, and want to know the resonant frequency of the
> circuit. What should I do to set up the simulation condition? I used
> the transient simulation and FFT hoping to find the spectrum figure,
> but it seems if I change the time step the spectrum also changes???
> What should I do now? I'll appreciate any of your help!
>
> Jessie

I haven't used PSPICE for several years and am unacquainted
with newer versions, preferring the LTSpice free package
available from Linear Technology Corporation. Both use the
same SPICE core routines-algorithms so it all depends on
how the variants "wrap" the core routines for human interfaces.

None of the SPICE variants can yield an "exact" frequency
of oscillation...but you can come close to that depending on
how many thousands of repetitive cycles it allows in memory
and the available memory of your computer. [I would carefully
check the PSPICE manual for conditions necessary with
their "wrapper" controls]

With LTSpice I've not had a problem with oscillator circuit
simulation start-up...not with starting at t=0 or delayed.
For example, a 10 MHz crystal oscillator simulation might
take 50 mSec or thereabouts to reach a stable oscillatory

condition so one can't expect to see a sinusoid oscillation very near 0 time. With L-C tuned oscillators the start-up time is sooner than that due to lower Q of L-C versus a simulated quartz crystal.

One of the difficult tasks in designing an oscillator circuit ON Spice (as opposed to beginning on paper) is obtaining proper feedback and the limiting conditions of voltage-current swings. There isn't any "easy" answer for that. An integrated schematic-net-list function (as in LTSpice) makes it easy to twiddle values to get one going. More twiddling with values gives one a "feel" for getting the right mix of parts values. My suggestion is to do that twiddling of values until oscillation is established and seems stable enough with supply voltage variations. Once there the measurement procedure for actual oscillation frequency would be rote work of counting of oscillation cycles and their slight phase shifts over the time intervals. The first step is insuring there IS an oscillation happening.

In the beginning of SPICE (core entirely free from Berkeley) it was a #$%^!!! job to introduce some kind of momentary transient (or "noise") to disturb the simulation model ("shock" it gently if you will) to begin oscillation. Most variants no longer need that since their "wrappers" have been modified to handle it.

The only question on various SPICE packages is their numerical accuracy in regards to frequency of oscillation. Few packages will say that directly. At minimum the simulation calculations would be done with "single precision" equivalent to 7 decimal digit calculation accuracy. Most seem to use "double precision" or 14 decimal digit equivalents so the simulated oscillation frequency could be close to 1 part per million for a very large circuit model (worst case with all errors adding up the same worst way).

MOST IMPORTANT of all is the simulation model and its components, including the stray/parasitic parts of each passive component as well as an accurate model of the active parts (transistor, diode, or vacuum tube). Most SPICE variants have a large active component library and those are quite accurate to nominal operation of the real parts. Failure to model the circuit correctly will result in failed results...one just can't cobble together some parts as on the bench and get some kind of action going.

OK, now that I've done the "spanking" [:-)] about basics, it's time to get the model working. Once that is done, the niceties of checking the harmonics is one of the last jobs. The FFT check on harmonics in PSPICE is probably different from LTSpice because the FFT routines are in the "wrapper" of the SPICE routine's core. Those vary depending on the variants program build.

Good luck on your model.

73, Len AF6AY

From -3830095372851099169
X-Google-Thread: fc2a5,b96719fdbd2e43ae,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n76g2000hsh.googlegroups.com!not-for-mail
From: "fogus" <gfogus@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Help with antenna extensions
Date: 13 Apr 2007 13:34:25 -0700
Organization: http://groups.google.com
Lines: 37
Message-ID: <1176496465.011395.221450@n76g2000hsh.googlegroups.com>
NNTP-Posting-Host: 154.5.105.2
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176496465 11871 127.0.0.1 (13 Apr 2007 20:34:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 13 Apr 2007 20:34:25 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.3) Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n76g2000hsh.googlegroups.com; posting-host=154.5.105.2;
   posting-account=UaSwRA0AAACOGyWYXrhVw0Dnk6uHZA_w
Xref: g2news1.google.com rec.radio.amateur.homebrew:12934

Hello all,
I am just starting to get myself into Ham Radio. I am finding studying Morse very hard, but I really want the general license, so I'm sticking to it.

My questions to you guys today regard antennas. I would like to have some antennas mounted on my house roof. I live in North Vancouver, BC, Canada, if that helps any in giving suggestions. I am curious about what antenna is used for which frequency. I would like to be able to transmit on the HF and VHF bands. Apparently there is something about a 10-meter band, a 15-meter band, etc. Why are they called meter bands? Is that like an electric "meter" or something, or is that like the "metre" unit of distance measurement? If it is the metre of distance, do the numbers represent how high the antenna has to be, or how long, or what? There is no way I can have a 60 metre antenna on my roof! Perhaps they could be coiled up or something? Can one antenna transmit on a broad range of frequencies? How much should I expect to pay?

Second question, with hand held 2-way radios, in North Vancouver, the range is limited because of the hilliness. I literally live on a mountain, and there are forests and valleys everywhere. My house is on a bit of a hill, and standing on my balcony I can receive and transmit very well over a good range (2-3 miles). On ground level in the same home I can get 1 mile at most. In the basement I can get 0.5 miles. What I want to do is to stick my antenna (from the BPR-40, Mag One by Motorola) up high on my house, and then transfer the signal, via wire, down to my room or even the basement. The threading seems pretty standard on the radio, but is doing this possible? Would it screw up the "meter" of the antenna? How could I transfer the signal without messing up the "meter"? I would like to transfer the signal a minimum of 50 feet.

Thanks,

fogus

From -5989676275381727150
X-Google-Thread: fcc6e,2d135ed1cf9610f8
X-Google-Thread: fc2a5,2d135ed1cf9610f8
X-Google-Attributes: gidfcc6e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-04!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@Yahoo.Com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Smith Chart program
Date: Fri, 13 Apr 2007 15:45:21 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <132023esbmumf05@corp.supernews.com>
References: <131sudifreks2e4@corp.supernews.com>
<1176418279.488131.265110@w1g2000hsg.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 10
Xref: g2news1.google.com rec.radio.amateur.antenna:39595
rec.radio.amateur.homebrew:12935

"K7ITM" <k7itm@msn.com> wrote in message
news:1176418279.488131.265110@w1g2000hsg.googlegroups.com...

> Additional comment: if you write impedance files in standard network
> analyzer format, they can be used by a lot of programs.

Good idea Tom. Roy: Besides RFSim99, Agilent's free AppCAD program has a mode where it can overlay a set of data on a Smith chart, having read it from the Touchstone ("standard network analyzer format") files.

From 2495264676683703226
X-Google-Thread: fc2a5,2eb74dfd14b4d25c
X-Google-Thread: fc8b1,2eb74dfd14b4d25c
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!
newscon02.news.prodigy.net!prodigy.net!news-xxxfer.readnews.com!
transit3.readnews.com!news-out.readnews.com!panix!panix1.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Best ARRL handbook editions?
Date: Fri, 13 Apr 2007 19:19:18 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 33
Message-ID: <Pine.NEB.4.64.0704131913470.18108@panix1.panix.com>
References: <1176323867.233519.199530@b75g2000hsg.googlegroups.com>
 <Pine.NEB.4.64.0704121451330.3692@panix2.panix.com>
<evo3r2$gcs$1@panix2.panix.com>
NNTP-Posting-Host: panix1.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1176506360 28721 166.84.1.1 (13 Apr 2007 23:19:20 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Fri, 13 Apr 2007 23:19:20 +0000 (UTC)
In-Reply-To: <evo3r2$gcs$1@panix2.panix.com>
Xref: g2news1.google.com rec.radio.amateur.homebrew:12936
rec.radio.amateur.boatanchors:11279

On Fri, 13 Apr 2007, Scott Dorsey wrote:

> Straydog <asd@panix.com> wrote:
>>
>> You might want to think about the tube evolutions: the very early tubes
>> are harder to find and more expensive and particularly the tube sockets.
>
> I just want to say that if you want to build your own tube gear, you
> should look seriously at compactrons. Designed for consumer electronics
> use, they have some excellent specifications and a lot of elements in
> a package. And they are absolutely dirt cheap because there is no demand
> for them on the surplus market at all.

Well, I'm already committed to 7 & 9 pin miniatures, and 8 pin octals,
have plenty of sockets, and more than enough tubes for my lifetime.

Once, long ago, I had a filament battery portable AM radio. About half the
size of a cigar box. Four tubes, one D cell, one 90 v B battery, and lift

up the cover, and it goes on in about 1/2 second, and sounded good. If I
have time, I'd like to build that (if I can't find a replica, or a similar
set [I think the old Zenith trans-oceanic had battery filament tubes, too,
might be interested in one of those instead]). Just for nostalgia.

> Some of these things are absolutely wonderful performers and available
> free for the asking. 12 pins good!
> --scott
>
>
> --
> "C'est un Nagra. C'est suisse, et tres, tres precis."
>

From 77553835221356842
X-Google-Thread: fc2a5,b96719fdbd2e43ae
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.phx!newsfe16.phx.POSTED!53ab2750!not-for-mail
From: "The Shadow" <repose@zilch.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1176496465.011395.221450@n76g2000hsh.googlegroups.com>
Subject: Re: Help with antenna extensions
Lines: 91
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <PCUTh.214113$6P2.61225@newsfe16.phx>
Date: Fri, 13 Apr 2007 16:45:54 -0700
NNTP-Posting-Host: 72.197.13.209
X-Complaints-To: admin@cox.net
X-Trace: newsfe16.phx 1176507951 72.197.13.209 (Fri, 13 Apr 2007 16:45:51 MST)
NNTP-Posting-Date: Fri, 13 Apr 2007 16:45:51 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:12937

"fogus" <gfogus@gmail.com> wrote in message
news:1176496465.011395.221450@n76g2000hsh.googlegroups.com...
> Hello all,
> I am just starting to get myself into Ham Radio. I am finding
> studying Morse very hard, but I really want the general license, so
> I'm sticking to it.
>
> My questions to you guys today regard antennas. I would like to have
> some antennas mounted on my house roof. I live in North Vancouver,
> BC, Canada, if that helps any in giving suggestions. I am curious
> about what antenna is used for which frequency. I would like to be
> able to transmit on the HF and VHF bands. Apparently there is

> something about a 10-meter band, a 15-meter band, etc. Why are they called meter bands? Is that like an electric "meter" or something, or is that like the "metre" unit of distance measurement? If it is the metre of distance, do the numbers represent how high the antenna has to be, or how long, or what? There is no way I can have a 60 metre antenna on my roof! Perhaps they could be coiled up or something? Can one antenna transmit on a broad range of frequencies? How much should I expect to pay?
>
> Second question, with hand held 2-way radios, in North Vancouver, the range is limited because of the hilliness. I literally live on a mountain, and there are forests and valleys everywhere. My house is on a bit of a hill, and standing on my balcony I can receive and transmit very well over a good range (2-3 miles). On ground level in the same home I can get 1 mile at most. In the basement I can get 0.5 miles. What I want to do is to stick my antenna (from the BPR-40, Mag One by Motorola) up high on my house, and then transfer the signal, via wire, down to my room or even the basement. The threading seems pretty standard on the radio, but is doing this possible? Would it screw up the "meter" of the antenna? How could I transfer the signal without messing up the "meter"? I would like to transfer the signal a minimum of 50 feet.
>
> Thanks,
>
> fogus
>

RE: METERS
The term "wavelength" is left over from the early days of radio. Back then, frequencies were measured in terms of the distance between the peaks of two consecutive cycles of a radio wave instead of the number of cycles per second. Even though radio waves are invisible, there is a measurable distance between the cycles of electromagnetic fields making up a radio wave. The distance between the peaks of two consecutive cycles is measured in meters. The relationship between a radio signal's frequency and its wavelength in meters can be found by the following formula:

wavelength = 300 / frequency in MHz

Certain segments of the shortwave bands are referred to in terms of "meter bands" as a convenient form of shorthand. For example, the term "10-meter band" is used to refer to the ham radio band that extends from 28000 to 29700 kHz.

Muliband antennas are common. For example, the Cushcraft R8 overs 6,10,12,15,17,20,30,40 meters

The GAP Titan DX antenna covers 10m 12m 15m 17m 20m 30m 40m and 100 KHz on 80m Using a tuner and a long wire -- just about all the bands can be covered.

SGC makes a tuner that will cover 1.0 to 60 MHz with antenna lengths of
Minimum lengths: 8 feet(3.3 to 60 MHz)
23 feet(1.0 to 60 MHz)

For your VHF antenna use low loss coax (50 Ohm) rated low loss at the frequency you are operating at.

P.S. A long transmission line "does not mess up the meter" as you wrote.

I have run 100 feet of coax in an installation without a problem

Hope this helps

Good Luck

Lamont

From 7805023090439415979
X-Google-Thread: fc2a5,b96719fdbd2e43ae
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e65g2000hsc.googlegroups.com!not-for-mail
From: "fogus" <gfogus@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Help with antenna extensions
Date: 13 Apr 2007 17:39:06 -0700
Organization: http://groups.google.com
Lines: 32
Message-ID: <1176511146.244624.275920@e65g2000hsc.googlegroups.com>
References: <1176496465.011395.221450@n76g2000hsh.googlegroups.com>
   <PCUTh.214113$6P2.61225@newsfe16.phx>
NNTP-Posting-Host: 154.5.105.2
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176511146 17231 127.0.0.1 (14 Apr 2007 00:39:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 14 Apr 2007 00:39:06 +0000 (UTC)
In-Reply-To: <PCUTh.214113$6P2.61225@newsfe16.phx>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.3) Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com

Injection-Info: e65g2000hsc.googlegroups.com; posting-host=154.5.105.2;
   posting-account=UaSwRA0AAACOGyWYXrhVw0Dnk6uHZA_w
Xref: g2news1.google.com rec.radio.amateur.homebrew:12938

Hey, thanks Lamont! That helps a lot. Wavelength being the meters, the number 300 coming from the speed of light in thousands of kilometers (right?).

Just one question though: When I look at my walki-talki's antenna, when I unscrew it, there is just a single threaded piece of metal, not two cables. Correct me if I'm wrong, but wouldn't attaching a cable to this threaded piece of metal change its receiving and transmitting characteristics? What is behind this antenna plastic in my hand held? A spring like structure? Doesn't the antenna need to push and pull the electrons? How can it do that if there is only an entrance? I'm kind of confused about this antenna design stuff. Is there a paper online where I can read about it?

Are you saying that if I bought a spare antenna for my radio, put it above my house, and ran a single wire (within the coax shieldings, of course, but essentially a single conductor) to my radio, that it would work, perhaps even better than inside my basement? That would be great.

Wouldent there be a major hurdle in setting up a repeater station, if there were only one between two radios? I thought a repeater had to receive on a different frequancy than it transmitted on.

Thanks for those model numbers, BTW, that helps emensly. Would those work attached to a hand held, or would I need an appropriately powered transmitter? I will look those up soon.

Sorry, that was actually a lot of questions.
thanks again
fogus

From 5809720520399164636
X-Google-Thread: fc2a5,b96719fdbd2e43ae
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.phx!newsfe11.phx.POSTED!53ab2750!not-for-mail
From: "The Shadow" <repose@zilch.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1176496465.011395.221450@n76g2000hsh.googlegroups.com>
<PCUTh.214113$6P2.61225@newsfe16.phx>
<1176511146.244624.275920@e65g2000hsc.googlegroups.com>
Subject: Re: Help with antenna extensions
Lines: 69
X-Priority: 3
X-MSMail-Priority: Normal

X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <NjWTh.176760$p17.109712@newsfe11.phx>
Date: Fri, 13 Apr 2007 18:42:05 -0700
NNTP-Posting-Host: 72.197.13.209
X-Complaints-To: admin@cox.net
X-Trace: newsfe11.phx 1176514925 72.197.13.209 (Fri, 13 Apr 2007 18:42:05 MST)
NNTP-Posting-Date: Fri, 13 Apr 2007 18:42:05 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:12939

"fogus" <gfogus@gmail.com> wrote in message
news:1176511146.244624.275920@e65g2000hsc.googlegroups.com...
> Hey, thanks Lamont! That helps a lot. Wavelength being the meters,
> the number 300 coming from the speed of light in thousands of
> kilometers (right?).

Yep
>
> Just one question though: When I look at my walki-talki's antenna,
> when I unscrew it, there is just a single threaded piece of metal, not
> two cables. Correct me if I'm wrong, but wouldn't attaching a cable
> to this threaded piece of metal change its receiving and transmitting
> characteristics? What is behind this antenna plastic in my hand
> held? A spring like structure? Doesn't the antenna need to push and
> pull the electrons? How can it do that if there is only an entrance?
> I'm kind of confused about this antenna design stuff. Is there a
> paper online where I can read about it?

Without knowing what Handie Talkie you are using, but in general you need an
adapter from the HT that mates with 50 -ohm coax. Your local Ham dealer
should have the adapter. My guess it would be an SMA to SO-239 adapter.

See URL:
http://cgi.ebay.com/SMA-Male-to-UHF-Female-SO-239-Adapter-1-Shipping_W0QQitemZ220081794583QQcmdZViewItem

>
> Are you saying that if I bought a spare antenna for my radio, put it
> above my house, and ran a single wire (within the coax shieldings, of
> course, but essentially a single conductor) to my radio, that it would
> work, perhaps even better than inside my basement? That would be
> great.

No you need both the center conductor of the coax and the shield to connect
to the radio.
>
> Wouldent there be a major hurdle in setting up a repeater station, if
> there were only one between two radios? I thought a repeater had to
> receive on a different frequancy than it transmitted on.

A repeater does operate on two different frequencies, but the key to a

repeater is a duplexer operating into a single antenna -- see repeater block diagram at URL:
http://www.hamuniverse.com/repeater.html

Not a simple matter however, a repeater needs a controller, timer, IDer and quite a bit more. And they are expensive to buy or build.

>
> Thanks for those model numbers, BTW, that helps emensly. Would those
> work attached to a hand held, or would I need an appropriately powered
> transmitter? I will look those up soon.

Well most handhelds are VHF/UHF only. When you are talking about 160M thru 10M, a different radio is needed -- maybe like the Yaesu FT-817ND
URL:
http://www.universal-radio.com/catalog/hamhf/1817.html
>
> Sorry, that was actually a lot of questions.
> thanks again
> fogus
>

Do you have a Ham Store nearby - take in your HT and see what they recommend.

Lamont

```
From -7177443844741881460
X-Google-Thread: fc2a5,972f9a9799ccf8b9,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nntpserver.com!zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-
v0.1!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: The Harry Thomas Special Report on The Dumbing Down Of America
From: Harry Thomas <harrythomas@nospam.netzero.net>
Organization: pfabf
Message-ID: <Xns991292F2256Aharrythomasnospamnet@66.150.105.47>
User-Agent: Xnews/5.04.25
Date: 14 Apr 2007 04:01:27 GMT
Lines: 58
NNTP-Posting-Date: 14 Apr 2007 04:01:27 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12940
```

The Harry Thomas Special Report on The Dumbing Down Of America
April 13, 2007
http://harrythomas.info

Harry Talks About This Issue

http://harrythomas.info/SpecialReports/SpecialReport041307.mp3

http://harrythomas.info/SpecialReports/dumbing_down_of_america.htm

==

ANNOUNCEMENT : New and Improved Sound now posted in mp3 Format

The Return of The Harry Thomas Show

The "garage talk show" that is reaching out to Worldwide Usenet

after hiatus he is back to inform the people of deception and corruption.

Hosted by Harry Thomas;

The Harry Thomas Show - week in review is a 4 segment show. We have had

tremendous response and we want to thank our Listeners.

Keep them e-mails coming and thanks for your support !

harrythomas@netzero.net

The Show is recorded on Wednesdays
Posted to usenet on Wednesday Nights to;
alt.binaries.great , - alt.binaries.radio.misc , -
alt.binaries.multimedia.documentary -alt.binaries.sounds.radio.misc, -
alt.binaries.sounds.radio, - alt.binaries.sounds.wma, - and
alt.binaries.multimedia - alt.binaries.mp3
The NFO (information) file posted both days to ;

alt.pirate.radio, - alt.internet.talk.radio, - alt.talk.radio, -
rec.radio.amateur.homebrew, - rec.radio.misc, -
alt.radio.international, - rec.radio.amateur, - alt.radio.talk, -
alt.radio.internet, - and alt.internet.talk-radio

Reposted to usenet on Saturdays to;
alt.binaries.sounds.radio.repost and alt.binaries.multimedia.repost
These are binary newsgroups.

check website for more information
http://harrythomas.info

Copies of this show can be e-mailed upon request inquire at;
harrythomas@netzero.net

--
Posted via a free Usenet account from http://www.teranews.com

From 1324711431539095074
X-Google-Thread: fc2a5,274901f6fe0db389
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!newsfeeds.ihug.co.nz!ihug.co.nz!ken-transit.news.telstra.net!lon-in.news.telstra.net!news.telstra.net!news-server.bigpond.net.au!53ab2750!not-for-mail
From: Alan Yates <alany@ay.com.au>
Organization: +++ATH0
User-Agent: Thunderbird 1.5.0.4 (X11/20060516)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM signal to FM signal
References: <1174893119.187241.117880@o5g2000hsb.googlegroups.com>
In-Reply-To: <1174893119.187241.117880@o5g2000hsb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 23
Message-ID: <8S4Uh.13361$M.9144@news-server.bigpond.net.au>
Date: Sat, 14 Apr 2007 13:41:24 GMT
NNTP-Posting-Host: 124.189.173.141
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1176558084 124.189.173.141 (Sat, 14 Apr 2007 23:41:24 EST)
NNTP-Posting-Date: Sat, 14 Apr 2007 23:41:24 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:12941

I'd suggest an MK484-style MW receiver that feeds a simple common base VCO like your average "FM Bug" circuit. Needs only a slack handful of components, fits in a matchbox and would run from a pair of AA cells for days.

ungvichian wrote:
> I've seen tons of posts about converting FM signals to AM signals
> (say, to use with an AM only vintage car radio). But I haven't seen
> anything about the inverse: converting an AM signal to an FM signal
> (because there are quite a few FM-only devices on the market now, such
> as MP3 players). I found this: http://www.uashem.com/pageid-259.html ,
> but it doesn't really fit my criteria. I'd like to be able to tune in
> any AM station, and then select the frequency to output it to without
> interfering with other station (think iPod transmitter).
>
> Surely there's gotta be some out there...
>

--
Alan Yates
http://www.vk2zay.net/
The Moon is Waning Crescent (12% of Full)

From -2366435443897346766
X-Google-Thread: fc2a5,b5686cf3db34f35e,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque.org_>
Newsgroups: rec.radio.amateur.homebrew
Subject: Sanyo LA1205 Datasheet Needed
Date: Sat, 14 Apr 2007 09:54:19 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1321qq7l0ofed05@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, ja, zh, fi, de, el, undefined, ru
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 13
Xref: g2news1.google.com rec.radio.amateur.homebrew:12942

Greetings:

It seems that published links to the Sanyo LA1205 IF block
IC datasheet are dead; I am modifying a receiver to
use a different mcu, improve the PLL loop, etc.
and would dearly appreciate a copy of the LA1205
datasheet.

Regards,

Michael

msg _at_ cybertheque _dot_ org

From 6924991084034733837
X-Google-Thread: fc2a5,6de84d50eff74ed9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out01a.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!uns-out.usenetserver.com!news.usenetserver.com!pc03.usenetserver.com!NAXS.COM-a2kHrUvQQWlmc!not-for-mail
Reply-To: "Jim" <jbasi@cfw.com>

```
From: "Jim" <jbasi@cfw.com>
Newsgroups: rec.radio.amateur.homebrew
References: <59234$461a8606$d80c3c03$8222@NAXS.COM>
<461cb24b$0$501$815e3792@news.qwest.net>
Subject: Re: IR adapter hack
Date: Sat, 14 Apr 2007 19:23:23 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <21788$4620f018$d80c3a2e$31510@NAXS.COM>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 74
X-Trace: 217884620f0187da99f8b31510
Xref: g2news1.google.com rec.radio.amateur.homebrew:12943
```

What chip did you use? A Vishay TFDT4500 or something like this? The data sheet would suggest what you indicated about 4 or 5 components needed. Other than that, Maxim and Microchip parts would require more work and parts.....what other options?

Thanks
Jim

"PhattyMo" <PhattyMo@nospam.gmail> wrote in message
news:461cb24b$0$501$815e3792@news.qwest.net...
> Jim wrote:
> > I would like some help in hacking an IR printer adapter made for the HP 350c
> > printer. This is a tiny pc board with a minimum of components connected via
> > 8 wires to a parallel printer connector. I would like to put this to use as
> > a serial port to IRDA device if possible. Yes, I know there are probably
> > simpler ways, but this is a very tiny board, and I'd like to learn from it
> > anyway.
> >
> > This board is different from others I have torn into. It has an IRDA
> > transmitter/receiver encoder/decoder similar to but a bit smaller than the
> > HSDL7001 but only has the numbers R800 and 016A on the back. This is a
> > through hole, 9 staggered pin device. This adapter was sold by HP so is
> > this R800 an HP part? Wish I had a data sheet!
> >
> > In addition there is a small crystal with the frequency 3.68 mhz but no
> > processor......but does have 3 transistors, 2 resistors, and 2 capacitors
> > (all surface mount). I think this is the frequency specified for

```
16xclk.
> >
> > On the connector side, the only used pins are:
> >
> > 18  +5v
> > 19  gnd
> > 10  low-ack
> > 1    low data strobe
> > 13  high
> > 12 high-paper end
> > 19 gnd
> >
> > 19-31-36 (low) (gnd) are all conncted
> > 11-16 connected (gnd)
> >
> > The presence of the crystal leads me to believe that the baud rate is
taken
> > care of already, on-board.  So how do I go about finding where the rx
and tx
> > connections should be.  Or is this even possible?  The circuit is
obviosly
> > getting it's power (5v) from the printer.
> >
> > I have in mind to use this on my Etrex GPS to upload/download info via
IR
> > from my computer.
> >
> > Thanks
> > Jim
> >
> >
> >
> >
>
> Google for IRDA circuits/projects,etc.. there's alot of info out there.
> I made one a few years ago,not hard at all.(all of about 3-4 components)




From 3441139685429135612
X-Google-Thread: fc2a5,972f9a9799ccf8b9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y5g2000hsa.googlegroups.com!not-for-
mail
From: "Denny" <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The Harry Thomas Special Report on The Dumbing Down Of America
Date: 14 Apr 2007 08:58:22 -0700
Organization: http://groups.google.com
Lines: 3
Message-ID: <1176566302.417682.258220@y5g2000hsa.googlegroups.com>
```

```
References: <Xns991292F2256Aharrythomasnospamnet@66.150.105.47>
NNTP-Posting-Host: 71.90.42.60
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176566303 26826 127.0.0.1 (14 Apr 2007 15:58:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 14 Apr 2007 15:58:23 +0000 (UTC)
In-Reply-To: <Xns991292F2256Aharrythomasnospamnet@66.150.105.47>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; IEMB3; IEMB3),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y5g2000hsa.googlegroups.com; posting-host=71.90.42.60;
   posting-account=GhrC0g0AAACdrABM-CDx8Fhs5lKJR5q2
Xref: g2news1.google.com rec.radio.amateur.homebrew:12944

SPAMHOLE !




From -5623047109790812471
X-Google-Thread: fc2a5,972f9a9799ccf8b9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Nobody  <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The Harry Thomas Special Report on The Dumbing Down Of America
Date: 14 Apr 2007 17:15:13 GMT
Lines: 5
Message-ID: <slrnf22311.1n66.bit-bucket@shell.config.com>
References: <Xns991292F2256Aharrythomasnospamnet@66.150.105.47>
X-Trace: individual.net P/ivGF3vVgcyR5ruyScAVw1cWAU9e3Ty9/OlBy1SK9wp5A9k7d
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12945

On 14 Apr 2007 04:01:27 GMT, Harry Thom-ass wrote:
> The Harry Thom-ass Special Report on The Dumbing Down Of America

  The predominate evidence of which is the rise
  in the number of slimeballs spamming in usenet.


From 3782669924023197011
X-Google-Thread: fc2a5,b5686cf3db34f35e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feed.cgocable.net!
feed.news.qwest.net!mpls-nntp-03.inet.qwest.net!news.qwest.net!not-for-mail
Date: Sat, 14 Apr 2007 10:41:21 -0700
From: PhattyMo <PhattyMo@nospam.gmail>
```

```
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sanyo LA1205 Datasheet Needed
References: <1321qq7l0ofed05@corp.supernews.com>
In-Reply-To: <1321qq7l0ofed05@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 21
Message-ID: <4621120e$0$498$815e3792@news.qwest.net>
Organization: Qwest Communications Corporation
NNTP-Posting-Host: 5866c079.news.qwest.net
X-Trace:
DXC=LOBJ:e;8UhPP]C1Y\^PcFSF85SKJoGf>T4kd>09L:hnR3<4fknPZf>XTi]mQXjR>fXkeE=Z^BnHVYo
GZNOfe>URPLMRBgfbaPQ\
X-Complaints-To: abuse@qwest.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:12946

msg wrote:
> Greetings:
>
> It seems that published links to the Sanyo LA1205 IF block
> IC datasheet are dead; I am modifying a receiver to
> use a different mcu, improve the PLL loop, etc.
> and would dearly appreciate a copy of the LA1205
> datasheet.
>
> Regards,
>
> Michael
>
> msg _at_ cybertheque _dot_ org


http://www.datasheetarchive.com/search.php?q=LA1205&sType=part


Both seem to work for me,although one is more of a "spec sheet" and the
other is in Chinese/Japanese -but the schematics are in engrish. :-)


From -5852922832350455544
X-Google-Thread: fc2a5,b5686cf3db34f35e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-04!sn-xt-sjc-11!sn-xt-sjc-09!
sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: msg <msg@_cybertheque_.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Sanyo LA1205 Datasheet Needed
Date: Sat, 14 Apr 2007 13:05:42 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <132261lrj8ivn43@corp.supernews.com>
```

```
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <1321qq7l0ofed05@corp.supernews.com>
<4621120e$0$498$815e3792@news.qwest.net>
In-Reply-To: <4621120e$0$498$815e3792@news.qwest.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 37
Xref: g2news1.google.com rec.radio.amateur.homebrew:12947

PhattyMo wrote:
> msg wrote:
>
>> Greetings:
>>
>> It seems that published links to the Sanyo LA1205 IF block
>> IC datasheet are dead; I am modifying a receiver to
>> use a different mcu, improve the PLL loop, etc.
>> and would dearly appreciate a copy of the LA1205
>> datasheet.


>
> http://www.datasheetarchive.com/search.php?q=LA1205&sType=part
>
>
> Both seem to work for me,although one is more of a "spec sheet" and the
> other is in Chinese/Japanese -but the schematics are in engrish. :-)

Thanks!  Perhaps I can convince a Japanese reader to translate the text ;)

I didn't find these in my searches; I had a number of dead links from
other websites and Google produced dead links to Chinese IC info sites.
Alldatasheets.com also didn't have them and I have avoided other
datasheet sites since most have gone to paid subscriptions.

The schematics appear to involve reference designs that I've seen
in some of the products which used this device; the text surely includes
important design and parametric information and deserves translation.

If anyone has the English text version please let me know.

Regards,

Michael

msg _at_ cybertheque _dot_ org


From -3058702958636081595
```

```
X-Google-Thread: fc2a5,6de84d50eff74ed9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!feed.news.qwest.net!
mpls-nntp-04.inet.qwest.net!news.qwest.net!not-for-mail
Date: Sat, 14 Apr 2007 21:15:26 -0700
From: PhattyMo <PhattyMo@nospam.gmail>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: IR adapter hack
References: <59234$461a8606$d80c3c03$8222@NAXS.COM>
<461cb24b$0$501$815e3792@news.qwest.net> <21788$4620f018$d80c3a2e$31510@NAXS.COM>
In-Reply-To: <21788$4620f018$d80c3a2e$31510@NAXS.COM>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 80
Message-ID: <4621a6aa$0$500$815e3792@news.qwest.net>
Organization: Qwest Communications Corporation
NNTP-Posting-Host: acdb3b2b.news.qwest.net
X-Trace:
DXC=\S3ijLkdTPXc^=Bna26gl^F85SKJoGf>TK;nj[SJd5VX3<4fknPZf>XTi]mQXjR>fXkeE=Z^BnHVYH
c?<A5^1e3Y7N_A^V4LUES
X-Complaints-To: abuse@qwest.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:12948
```

Jim wrote:
> What chip did you use? A Vishay TFDT4500 or something like this? The data
> sheet would suggest what you indicated about 4 or 5 components needed.
> Other than that, Maxim and Microchip parts would require more work and
> parts.....what other options?
>
> Thanks
> Jim
>

IIRC the one I made connected to the serial port,and was nothing more
than an IR reciever,and an infrared LED..couple resistors,and a Diode
and small cap,or something like that...no chips needed.
Connection to the parallel port might require some more 'trickery'.

>
>
> "PhattyMo" <PhattyMo@nospam.gmail> wrote in message
> news:461cb24b$0$501$815e3792@news.qwest.net...
>> Jim wrote:
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> 350c
>>> printer. This is a tiny pc board with a minimum of components connected
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>>> 8 wires to a parallel printer connector. I would like to put this to

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> probably
>>> simpler ways, but this is a very tiny board, and I'd like to learn from
> it
>>> anyway.
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>>> This board is different from others I have torn into. It has an IRDA
>>> transmitter/receiver encoder/decoder similar to but a bit smaller than
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>>> HSDL7001 but only has the numbers R800 and 016A on the back. This is a
>>> through hole, 9 staggered pin device. This adapter was sold by HP so is
>>> this R800 an HP part? Wish I had a data sheet!
>>>
>>> In addition there is a small crystal with the frequency 3.68 mhz but no
>>> processor......but does have 3 transistors, 2 resistors, and 2
> capacitors
>>> (all surface mount). I think this is the frequency specified for
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>>> On the connector side, the only used pins are:
>>>
>>> 18 +5v
>>> 19 gnd
>>> 10 low-ack
>>> 1   low data strobe
>>> 13 high
>>> 12 high-paper end
>>> 19 gnd
>>>
>>> 19-31-36 (low) (gnd) are all conncted
>>> 11-16 connected (gnd)
>>>
>>> The presence of the crystal leads me to believe that the baud rate is
> taken
>>> care of already, on-board. So how do I go about finding where the rx
> and tx
>>> connections should be. Or is this even possible? The circuit is
> obviosly
>>> getting it's power (5v) from the printer.
>>>
>>> I have in mind to use this on my Etrex GPS to upload/download info via
> IR
>>> from my computer.
>>>
>>> Thanks
>>> Jim
>>>
>>>
>>>
>>>
>> Google for IRDA circuits/projects,etc.. there's alot of info out there.
>> I made one a few years ago,not hard at all.(all of about 3-4 components)
>

```
>


From -8253931893283539649
X-Google-Thread: fc2a5,6491fc79c8444578,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n76g2000hsh.googlegroups.com!not-for-
mail
From: "market" <email2market@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: RFID FAQs - RFID Companies, Equipment, Medical ...
Date: 15 Apr 2007 19:55:29 -0700
Organization: http://groups.google.com
Lines: 6
Message-ID: <1176692129.533911.18560@n76g2000hsh.googlegroups.com>
NNTP-Posting-Host: 218.63.252.219
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176692129 22297 127.0.0.1 (16 Apr 2007 02:55:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 16 Apr 2007 02:55:29 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.11)
Gecko/20070312 Firefox/1.5.0.11,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n76g2000hsh.googlegroups.com; posting-host=218.63.252.219;
   posting-account=xWsr9A0AAADxzbd72Rbsiz8MQcb6x8zN
Xref: g2news1.google.com rec.radio.amateur.homebrew:12949

Find information on RFID companies, RFID equipment, and the medical
advantages of RFID technology. Learn about RFID equipment produced by
the leading RFID ...

http://flying-rugs.com/rfid-tutorial/



From 1717404728027440191
X-Google-Thread: fc2a5,e077b8de1af39803,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Yard sale find
Date: Sun, 15 Apr 2007 23:03:03 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
```

X-RFC2646: Format=Flowed; Original
Lines: 11
Message-ID: <4622e75f$0$5735$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12950

Saturday I found an electronics kit at a yard sale I was an unassembled all in the box AA5 receiver. Looks lie it is some kind of educationa kit. It was all in the box but it did not include the cabinet just the chassis and parts. I was thinking of assembly it on a larger chassis and then begin making mods on it. I am thinking more IF stages, mechanical or xtal filter, xternal VFO(my sig gen) BFO any other ideas on what you could do with one of these.Of course adding a transformer.

Jimmie

From 9131557984453919071
X-Google-Thread: fc2a5,492bf471860f4186
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out03a.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!nx02.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <no.spam-D502CD.10530317122006@news.verizon.net> <1obbo25f3r3oh03qsuinki0hsdprmqluq4@4ax.com> <1bydna3iyL4GGEbYnZ2dnUVZ_v-tnZ2d@deskmedia.com> <1172075457.868314.283150@p10g2000cwp.googlegroups.com>
Subject: Re: No Code Required Issue
Date: Sun, 15 Apr 2007 23:07:43 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Lines: 62
Message-ID: <4622e87a$0$9898$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12951

"tack" <tack1@flash.net> wrote in message
news:1172075457.868314.283150@p10g2000cwp.googlegroups.com...
> On Feb 20, 5:34 pm, "JIM" <cjjim...@yahoo.com> wrote:
>> Bill, W Q R P in Cincinnati . Your A Moron. Does It really hurt when you
>> think? Maybe you should go see the Doctor. Help for you is just a door
>> away

>> open it walk through and Don't let it hit you in the A$$ xx I mean Head
>> on
>> the way out.
>>
>> My Name is Bill and , My name is Bill and, I think My Name is Bill and ,
>> I
>> think My Name is Bill and , They told Me that My Name is Bill and ,   Duh
>> your Bill right
>>
>> "Bill Turner" <n...@nowhow.com> wrote in message
>>
>> news:1obbo25f3r3oh03qsuinki0hsdprmqluq4@4ax.com...
>>
>>
>>
>> > Please folks, do not reply to these off topic posts.
>>
>> > If these idiots never get any replies, they will eventually give up
>> > and go away.
>>
>> > Thanks,
>>
>> > Bill, W6WRT- Hide quoted text -
>>
>> - Show quoted text -
>
>
>
> Why must people flame and call names? Bill Turner is technically
> correct, although severe. Al's post is off topic, but it is polite
> and sane. He shows no sign of being an "idiot" or jerk. An off topic
> post like that perhaps should be handled by giving a few polite
> answers, reminding that it is off topic, then dropping the subject.
> On topic now, I suggest to those that believe that they cannot learn
> code learn it anyway. There will still be code on the air, at least
> for a time. Take your short-wave sets and listen to it. I disagree
> that you should not memorize code. Learn the "A" is .- ; "B" is -...;
> etc. There are only 26 characters plus ten numbers, and a few
> punctuation characters. Man, if you can get a Master's in EE which
> requires advanced mathematics with all the associated arcane symbolism
> then you can memorize a little code. Of course, by counting dots and
> dashes you'll never get past a few wpm, but you continue to listen to
> faster and faster code, and as was mentioned above listen to
> characters played very fast but with wide spacing, which will help you
> to learn by pattern recognition. When you master that, you will
> listen to code as a sort of "language".
>

Anyway you can do 5wpm is a good way. Once you get on the air it will
improve though you may find you are re-learning it every time you make a
significant speed increase but you will get there.

Jimmie.

```
From -5430526196771246O2
X-Google-Thread: fc2a5,7df6c49a19c050da
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out03a.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx02.iad01.newshosting.com!newshosting.com!post01.iad01!roadrunner.com!not-for-
mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <69f3a$45f74f17$d066b697$3793@FUSE.NET>
<ECJJh.3869$tv6.1379@newssvr19.news.prodigy.net>
<12vfpple77ncm4b@news.supernews.com>   <9c1e0$45f82673$d8c4d79c$25905@FUSE.NET>
<rOWJh.14902$bb1.12385@newssvr17.news.prodigy.net>
<1174280613.823232.72840@y80g2000hsf.googlegroups.com>
Subject: Re: Old microwave
Date: Sun, 15 Apr 2007 23:12:27 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Lines: 61
Message-ID: <4622e996$0$27050$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12952


"Bill Bowden" <wrongaddress@att.net> wrote in message
news:1174280613.823232.72840@y80g2000hsf.googlegroups.com...
> On Mar 14, 10:04 am, "N9WOS" <N...@nobug.sbcglobal.net> wrote:
>> > >> The HV transformer. Output 1 to 2KV at several hundred to a thousand
>> > >> KVA
>>
>> > Wow.  Message received.  It'll be fun to disassemble a microwave...when
>> > I was a pre-teen, I used to do it to old 1st generation TV's  the best
>> > part used to be imploding the picture tube.
>>
>> > Thanks!
>>
>> > John
>> > AB8O
>>
>> Ow ow ow ow....... forgot to mention something........
>>
>> Microwave oven transformers (MOTs) are current limiting. They have
>> magnetic
>> shunts between the primary and secondary. You can short the secondary
```

>> out,
>> and it won't blow any breakers. The transformer may hum loudly, but it
>> but
>> nothing will blow.
>>
>> That is why people say that they have poor voltage regulation when used
>> in a
>> HV power supply.
>>
>> You can remove the current limiting by just driving out the magnetic
>> shuts
>> with a punch and hammer. The shunts are just stacks of transformer
>> laminations stacked up to make a square block, and press fit into the
>> space
>> between the primary and secondary.
>>
>> With the magnetic shunts removed, then the output voltage will go up, and
>> the output voltage regulation will be far better. You will be able to
>> draw a
>> lot higher peak current from it. But be careful. There is no longer any
>> current limiting. If you short out the secondary, the breaker, or fuse
>> will
>> blow.
>
> I never had much luck with Microwave power transformers. They seem to
> saturate with light loads and draw several amps of line current. If
> the load isn't 600 watts, they go crazy, draw lots of current and
> heat up. They also have the laminations welded together which reduces
> efficiency (lots of eddy currents). Might be better suited for a boat
> anchor.
>
> -Bill
>

I tried one for a 4cx250 amp, sucked bilge water big time. I dont think the
primary had 100 turns on it.

Jimmie

From 3310506478250882978
X-Google-Thread: f64c6,553e91dec2c346fe,start
X-Google-Thread: fc2a5,553e91dec2c346fe,start
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!aioe.org!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Putting the Ham back into Ham Radio?
Date: Mon, 16 Apr 2007 11:55:32 +0100
Organization: Aioe.org NNTP Server

Lines: 31
Message-ID: <evvkn4$236$1@aioe.org>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:109374 rec.radio.amateur.homebrew:12953

I wonder if we who are the Usenet-frequenting Radio
Hams might somehow get together to sort out the
dreadful mess that has been created in no small
part by the self-interest of those who control
the RSCB?

Might we all act together to produce a series
of "biscuits" that could then be assembled
Lego-like fashion to produce any rig or test
equipment? This would have a number of benefits,
not the least of which would be the bankrupting
of the cancerous emporia whose off-the-shelf
Cheque-Book (CB) radios are not only discouraging
the homebrew engineering that is the essence
of _REAL_ Ham Radio but also encouraging an
altogether undesirable element to regard
themselves as of our ranks. Once the advertising
income from those dead emporia ceased to flow,
then the national societies might get back
to supporting technical excellence instead
of Complete Bullshit (CB) as they do now?

(And, no, I'm not thinking in terms of the facile
hardware exercises that bring on the disease known
as the gangrenous degeneration that is the M3/CB
Fools' Licence scheme; facile because once a
so-called "licence" has been granted the hardware
diversion is largely forgotten.)

From -1436750024835630085
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y80g2000hsf.googlegroups.com!not-for-mail
From: "Richard G3CWI" <G3cwi@tesco.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew

Subject: Re: Putting the Ham back into Ham Radio?
Date: 16 Apr 2007 04:34:49 -0700
Organization: http://groups.google.com
Lines: 12
Message-ID: <1176723289.820969.195990@y80g2000hsf.googlegroups.com>
References: <evvkn4$236$1@aioe.org>
NNTP-Posting-Host: 86.148.0.117
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176723290 11620 127.0.0.1 (16 Apr 2007 11:34:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 16 Apr 2007 11:34:50 +0000 (UTC)
In-Reply-To: <evvkn4$236$1@aioe.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.02 (Windows NT 5.1; U; en),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y80g2000hsf.googlegroups.com; posting-host=86.148.0.117;
   posting-account=HOcO0AsAAAD8n7TuJax7-3_Df8x3nwuS
Xref: g2news1.google.com uk.radio.amateur:109381 rec.radio.amateur.homebrew:12954

On 16 Apr, 11:55, "G.A.Evans G4SDW" <m...@privacy.net> wrote:

>
> Might we all act together to produce a series
> of "biscuits" that could then be assembled
> Lego-like fashion to produce any rig or test
> equipment? This would have a number of benefits,

Like LEGO? Well done for realising that currently amateur radio has
done little to interest the under-fives. Maybe it's a whole new market?

From -5186896658288913778
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!news-in.ntli.net!
newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe3-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Jim GM4DHJ" <jim.gm4dhj@ntlworld.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <evvkn4$236$1@aioe.org>
Subject: Re: Putting the Ham back into Ham Radio?
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <RcJUh.1416$J64.210@newsfe3-gui.ntli.net>

```
Date: Mon, 16 Apr 2007 11:36:17 GMT
NNTP-Posting-Host: 82.10.4.249
X-Trace: newsfe3-gui.ntli.net 1176723377 82.10.4.249 (Mon, 16 Apr 2007 12:36:17
BST)
NNTP-Posting-Date: Mon, 16 Apr 2007 12:36:17 BST
Organization: NTL
Xref: g2news1.google.com uk.radio.amateur:109383 rec.radio.amateur.homebrew:12955


"G.A.Evans G4SDW" <me@privacy.net> wrote in message
news:evvkn4$236$1@aioe.org...
>I wonder if we who are the Usenet-frequenting Radio
> Hams might somehow get together to sort out the
> dreadful mess that has been created in no small
> part by the self-interest of those who control
> the RSCB?

A kind of take over then ? .......




From -5213377576433823l2
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!proxad.net!news.newsland.it!aioe.org!
not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Mon, 16 Apr 2007 12:43:26 +0100
Organization: Aioe.org NNTP Server
Lines: 18
Message-ID: <evvngu$780$1@aioe.org>
References: <evvkn4$236$1@aioe.org> <RcJUh.1416$J64.210@newsfe3-gui.ntli.net>
NNTP-Posting-Host: Z3IpgFh83JnnDIiU15n1gQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:109386 rec.radio.amateur.homebrew:12956

More a take-back

"Jim GM4DHJ" <jim.gm4dhj@ntlworld.com> wrote in message
news:RcJUh.1416$J64.210@newsfe3-gui.ntli.net...
>
> <me@privacy.net> wrote in message
> news:evvkn4$236$1@aioe.org...
```

```
>>I wonder if we who are the Usenet-frequenting Radio
>> Hams might somehow get together to sort out the
>> dreadful mess that has been created in no small
>> part by the self-interest of those who control
>> the RSCB?
>
> A kind of take over then ? .......
>




From -6737537189648465098
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.stanford.edu!bloom-
beacon.mit.edu!panix!panix1.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
Date: Mon, 16 Apr 2007 09:16:50 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 53
Message-ID: <Pine.NEB.4.64.0704160912490.19214@panix1.panix.com>
References: <evvkn4$236$1@aioe.org>
NNTP-Posting-Host: panix1.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1176729413 11991 166.84.1.1 (16 Apr 2007 13:16:53 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 16 Apr 2007 13:16:53 +0000 (UTC)
In-Reply-To: <evvkn4$236$1@aioe.org>
Xref: g2news1.google.com uk.radio.amateur:109400 rec.radio.amateur.homebrew:12957



On Mon, 16 Apr 2007, G.A.Evans G4SDW wrote:

> I wonder if we who are the Usenet-frequenting Radio
> Hams might somehow get together to sort out the
> dreadful mess that has been created in no small
> part by the self-interest of those who control
> the RSCB?
>
> Might we all act together to produce a series
> of "biscuits" that could then be assembled
> Lego-like fashion to produce any rig or test
> equipment?

FWIW (pardon me) but I recognize what you are talking about as "descrete
```

devices" (i.e. tubes, transistors, resistors, capacitors, etc.).

  This would have a number of benefits,
> not the least of which would be the bankrupting
> of the cancerous emporia whose off-the-shelf
> Cheque-Book (CB) radios are not only discouraging
> the homebrew engineering that is the essence
> of _REAL_ Ham Radio but also encouraging an
> altogether undesirable element to regard
> themselves as of our ranks.

I think all that store-bought stuff just dumbs-down the brains of people who would be better off building their own, leanring something, and sharpening their wits in the process.

  Once the advertising
> income from those dead emporia ceased to flow,
> then the national societies might get back
> to supporting technical excellence instead
> of Complete Bullshit (CB)

Hey, that's a great acronym for CB (or vice versa)!

  as they do now?
>
> (And, no, I'm not thinking in terms of the facile
> hardware exercises that bring on the disease known
> as the gangrenous degeneration that is the M3/CB
> Fools' Licence scheme; facile because once a
> so-called "licence" has been granted the hardware
> diversion is largely forgotten.)

We've also got too many "keyboard potatoes," too!

>
>
>

```
From 4084118045855304484
X-Google-Thread: fc2a5,b5686cf3db34f35e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!feeder.ecngs.de!ecngs!
feeder2.ecngs.de!ndsoftware.com!194.168.222.133.MISMATCH!news-out.ntli.net!
newsrout1-gui.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe6-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Russell King" <rusking@tesco.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1321qq7l0ofed05@corp.supernews.com>
Subject: Re: Sanyo LA1205 Datasheet Needed
Lines: 22
X-Priority: 3
```

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <YHKUh.2643$VT3.1547@newsfe6-gui.ntli.net>
Date: Mon, 16 Apr 2007 13:17:44 GMT
NNTP-Posting-Host: 80.0.98.205
X-Complaints-To: http://www.virginmedia.com/netreport
X-Trace: newsfe6-gui.ntli.net 1176729464 80.0.98.205 (Mon, 16 Apr 2007 14:17:44 BST)
NNTP-Posting-Date: Mon, 16 Apr 2007 14:17:44 BST
Organization: ntl Cablemodem News Service
Xref: g2news1.google.com rec.radio.amateur.homebrew:12958

http://www.worldlingo.com/en/products_services/worldlingo_translator.html
does translation from Japanese and Chinese.
Russ.

"msg" <msg@_cybertheque.org_> wrote in message
news:1321qq7l0ofed05@corp.supernews.com...
> Greetings:
>
> It seems that published links to the Sanyo LA1205 IF block
> IC datasheet are dead; I am modifying a receiver to
> use a different mcu, improve the PLL loop, etc.
> and would dearly appreciate a copy of the LA1205
> datasheet.
>
> Regards,
>
> Michael
>
> msg _at_ cybertheque _dot_ org

From 4263356079537006847
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!newsfeed2.ip.tiscali.net!tiscali!newsfeed1.ip.tiscali.net!newsfeed00.sul.t-online.de!t-online.de!83.128.0.11.MISMATCH!news-out1.kabelfoon.nl!newsfeed.kabelfoon.nl!xindi.nntp.kabelfoon.nl!193.111.200.220.MISMATCH!news-peer.gradwell.net!news-peer-lilac.gradwell.net!not-for-mail
From: "Gordon Hudson" <hostroute@gmail.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <evvkn4$236$1@aioe.org> <RcJUh.1416$J64.210@newsfe3-gui.ntli.net>
Subject: Re: Putting the Ham back into Ham Radio?

```
Date: Mon, 16 Apr 2007 14:54:38 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Lines: 18
Message-ID: <46238055$0$514$5a6aecb4@news.aaisp.net.uk>
NNTP-Posting-Host: 81.187.78.64
X-Trace: 1176731733 news.aaisp.net.uk 514 81.187.78.64:1972
X-Complaints-To: aaispnews-abuse@gradwell.net
Xref: g2news1.google.com uk.radio.amateur:109409 rec.radio.amateur.homebrew:12959


"Jim GM4DHJ" <jim.gm4dhj@ntlworld.com> wrote in message
news:RcJUh.1416$J64.210@newsfe3-gui.ntli.net...
>
> "G.A.Evans G4SDW" <me@privacy.net> wrote in message
> news:evvkn4$236$1@aioe.org...
>>I wonder if we who are the Usenet-frequenting Radio
>> Hams might somehow get together to sort out the
>> dreadful mess that has been created in no small
>> part by the self-interest of those who control
>> the RSCB?
>
> A kind of take over then ? .......

I would buy the RSGB but I only buy going concerns normally or businesses
that have a clear future.




From 284924929361388891
X-Google-Thread: f64c6,553e91dec2c346fe
X-Google-Thread: fc2a5,553e91dec2c346fe
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!proxad.net!news.wiretrip.org!
newsgate.cistron.nl!xs4all!news2.euro.net!postnews2.euro.net!news.wanadoo.nl!not-
for-mail
Date: Mon, 16 Apr 2007 16:04:00 +0200
From: know code <know_code@wanadoo.nl>
Reply-To:  "know code"@invalid_address.com
User-Agent: Thunderbird 1.5.0.10 (X11/20070221)
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Putting the Ham back into Ham Radio?
References: <evvkn4$236$1@aioe.org> <RcJUh.1416$J64.210@newsfe3-gui.ntli.net>
<46238055$0$514$5a6aecb4@news.aaisp.net.uk>
In-Reply-To: <46238055$0$514$5a6aecb4@news.aaisp.net.uk>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: quoted-printable
```

```
Lines: 29
Message-ID: <46238250$0$8986$dbd4d001@news.wanadoo.nl>
Organization: Wanadoo
NNTP-Posting-Date: 16 Apr 2007 14:04:00 GMT
NNTP-Posting-Host: s5591cd23.adsl.wanadoo.nl
X-Trace: 1176732240 dr5.euro.net 8986 85.145.205.35:5938
X-Complaints-To: abuse@wanadoo.nl
Xref: g2news1.google.com uk.radio.amateur:109411 rec.radio.amateur.homebrew:12960

Gordon Hudson wrote:
> "Jim GM4DHJ" <jim.gm4dhj@ntlworld.com> wrote in message=20
> news:RcJUh.1416$J64.210@newsfe3-gui.ntli.net...
>> "G.A.Evans G4SDW" <me@privacy.net> wrote in message=20
>> news:evvkn4$236$1@aioe.org...
>>> I wonder if we who are the Usenet-frequenting Radio
>>> Hams might somehow get together to sort out the
>>> dreadful mess that has been created in no small
>>> part by the self-interest of those who control
>>> the RSCB?
>> A kind of take over then ? .......
>=20
> I would buy the RSGB but I only buy going concerns normally or business=
es=20
> that have a clear future.=20

Well, you should be able to get the RSGB for about a fiver, so maybe=20
worth a punt :)



--=20
ARRL membership =3D $39 (~=A320)
RSGB membership =3D =A344

Don't let them rip you off any more.
Do the right thing, resign from the RSGB today.

The RSGB said Radio Amateurs were a threat to national security!
Is this the type of organisation you want to represent you?



From -6473379286659502215
X-Google-Thread: 10c2ee,61e7faade260a9a2
X-Google-Thread: f4535,61e7faade260a9a2
X-Google-Thread: fc2a5,61e7faade260a9a2
X-Google-Thread: 1118be,61e7faade260a9a2
X-Google-Attributes: gid10c2ee,gidf4535,gidfc2a5,gid1118be,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe16.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups:
rec.antiques.radio+phono,rec.audio.tubes,rec.radio.amateur.homebrew,sci.electronic
```

```
s.components
References: <1175516871.122672.215880@n76g2000hsh.googlegroups.com>
<1175522025.134892.237800@y66g2000hsf.googlegroups.com>
<1175567340.253336.50580@l77g2000hsb.googlegroups.com>
Subject: Re: 811A's, Dual Grid and Class B triodes
Lines: 26
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <p9UQh.307675$Ju2.1678@newsfe16.lga>
Date: Wed, 4 Apr 2007 16:46:56 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe16.lga 1175719637 68.0.230.122 (Wed, 04 Apr 2007 13:47:17 MST)
NNTP-Posting-Date: Wed, 04 Apr 2007 13:47:17 MST
Organization: Cox
Xref: g2news1.google.com rec.antiques.radio+phono:69985 rec.audio.tubes:35886
rec.radio.amateur.homebrew:12860 sci.electronics.components:14903


"RapidRonnie" <rapidronnie@cbgb.net> wrote in message
news:1175567340.253336.50580@l77g2000hsb.googlegroups.com...
> On Apr 2, 8:53 am, "Ed Engelken" <EdEn...@gvtc.com> wrote:
>> > Googling the term, I see that the 52 tube seems to be an example where
>> > both grids are brought out to individual terminals.
>>
>> =======================================
>> The #46 is another. The 46 was popular in a number of Atwater Kent
>> radios circa 1932-33.  Class B Push-Pull output stages in high-end
>> radios had a brief run in the early 1930s, then faded into history.  --
>> Ed
>
> Because using conventional circuits the distortion was terrible. True
> Class B operation works well only at high continuous levels without
> extreme measures such as Wiggins and Mcintosh/Gow/Corderman afforded.
> Al Bereskin at Baldwin designed the "poor man's Mc" for organ use and
> it was published in an extremely good DIY article in the IRE journal
> in '55 or '56. It never got below 2% THD.
>
>
Most of those sets used push-pull class A, not B.

Pete





From 8838752764584798503
X-Google-Thread: fc2a5,eeeb2bfe075c5236
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <46130e55$0$9974$4c368faf@roadrunner.com>
<1175694572.855148.200780@e65g2000hsc.googlegroups.com>
Subject: Re: UTC ls 55 transformers
Date: Wed, 4 Apr 2007 17:36:13 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Lines: 21
Message-ID: <46141a4a$0$27099$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12861
```

"Wes" <n7ws@yahoo.com> wrote in message
news:1175694572.855148.200780@e65g2000hsc.googlegroups.com...

> On Apr 3, 7:33 pm, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
>> I picked up a pair of UTC LS-55 transformers at a flea market a couple of
>> weeks ago. Can some one give me the specs on these. I was hoping they
>> might
>> me modulation transformers.
>>
>> Jimme
>
>
> k6mhe.com/n7ws/UTC_Page_45.pdf
>

Doesnt seem to be what I was hoping for but maybe I could hook the two back
to back and get the impedances I need.
Thanks

Jimmie

```
From 8170253649842975485
X-Google-Thread: 112d1e,6db7ceffe7857003
X-Google-Thread: fc2a5,6db7ceffe7857003
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr13.news.prodigy.net.POSTED!0d06e27e!not-for-
mail
From: "Tom Donaly" <dtdonaly@sbcglobal.net>
```

```
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Jackrabbits Problem
References: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
<1315m8h92gpr37b@corp.supernews.com>
<MPG.207d914f17cec3be989f3b@newsgroups.bellsouth.net>
In-Reply-To: <MPG.207d914f17cec3be989f3b@newsgroups.bellsouth.net>
Content-Type: text/plain; charset=ISO-8859-15; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 15
Message-ID: <x9VQh.12177$JZ3.9693@newssvr13.news.prodigy.net>
NNTP-Posting-Host: 12.72.192.131
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr13.news.prodigy.net 1175723741 ST000 12.72.192.131 (Wed, 04 Apr
2007 17:55:41 EDT)
NNTP-Posting-Date: Wed, 04 Apr 2007 17:55:41 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
[[PGG\WGQZUORVXXWBCBNWX@RJ_XPDLMN@GZ_GYO^BVNDQUBLNTC@AWZWDXZXQ[K\FFSKCVM@F_N_DOBWV
WG__LG@VVOIPLIGX\
\BU_B@\P\PFX\B[APHTWAHDCKJF^NHD[YJAZMCY_CWG[SX\Y]^KC\HSZRWSWKGAY_PC[BQ[BXAS\F\
\@DMTLFZFUE@\VL
Date: Wed, 04 Apr 2007 21:55:41 GMT
Xref: g2news1.google.com sci.electronics.design:214103
rec.radio.amateur.homebrew:12862
```

James Beck wrote:

> In article <1315m8h92gpr37b@corp.supernews.com>, denton@oregontrail.net
> says...
>> Low powered pellet gun....
>
> I was thinking a subscription to Animal Planet, so she can get up to
> speed with reality.
>

Tell her Nature is just testing the males to determine which would
make the best fathers for new rabbit bambinos, much like young women
comparing their suitors' bank balances, assets, and educations when
choosing the right men to parasitize.
73,
Tom Donaly, KA6RUH

```
From 5675347534258728089
X-Google-Thread: fc2a5,eeeb2bfe075c5236
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-
media.com!hw-filter.lga!newsfe24.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
```

From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <46130e55$0$9974$4c368faf@roadrunner.com>
<1175694572.855148.200780@e65g2000hsc.googlegroups.com>
<46141a4a$0$27099$4c368faf@roadrunner.com>
Subject: Re: UTC ls 55 transformers
Lines: 31
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <p2WQh.6217$EJ6.1701@newsfe24.lga>
Date: Wed, 4 Apr 2007 18:56:00 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe24.lga 1175727381 68.0.230.122 (Wed, 04 Apr 2007 15:56:21 MST)
NNTP-Posting-Date: Wed, 04 Apr 2007 15:56:21 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:12863

"Jimmie D" <GFENDER@carolina.rr.com> wrote in message
news:46141a4a$0$27099$4c368faf@roadrunner.com...
>
> "Wes" <n7ws@yahoo.com> wrote in message
> news:1175694572.855148.200780@e65g2000hsc.googlegroups.com...
>> On Apr 3, 7:33 pm, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
>>> I picked up a pair of UTC LS-55 transformers at a flea market a couple
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>>> weeks ago. Can some one give me the specs on these. I was hoping they
>>> might
>>> me modulation transformers.
>>>
>>> Jimme
>>
>>
>> k6mhe.com/n7ws/UTC_Page_45.pdf
>>
> Doesnt seem to be what I was hoping for but maybe I could hook the two
> back to back and get the impedances I need.
> Thanks
>
> Jimmie

that was the first idea that came to my mind. You certainly
have a few options for impedance transformations!

Pete

From -3674999443335637303
X-Google-Thread: 10c2ee,61e7faade260a9a2
X-Google-Thread: f4535,61e7faade260a9a2
X-Google-Thread: fc2a5,61e7faade260a9a2
X-Google-Thread: 1118be,61e7faade260a9a2
X-Google-Attributes: gid10c2ee,gidf4535,gidfc2a5,gid1118be,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bigfeed!bignumber.bellsouth.net!news.bellsouth.net!
bignews6.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups:
rec.antiques.radio+phono,rec.audio.tubes,rec.radio.amateur.homebrew,sci.electronics.components
Subject: Re: 811A's, Dual Grid and Class B triodes
References: <1175516871.122672.215880@n76g2000hsh.googlegroups.com>
In-Reply-To: <1175516871.122672.215880@n76g2000hsh.googlegroups.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 35
Message-ID: <KIWQh.31587$nV1.27014@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcbopjlcdbdbjjikemakabfkdgdcebgfjgjbfl
faaekoefebbppnfmacbhbelpplcnjbaoopjmemfmkgdimkgecomoofjbcnojalggmpilneogppkimn
NNTP-Posting-Date: Wed, 04 Apr 2007 19:41:30 EDT
Organization: BellSouth Internet Group
Date: Wed, 04 Apr 2007 19:41:47 -0400
Xref: g2news1.google.com rec.antiques.radio+phono:70009 rec.audio.tubes:35901
rec.radio.amateur.homebrew:12864 sci.electronics.components:14908

shoppa@trailing-edge.com wrote:
>
> The two-grids-connected-together characteristics remind me a lot of,
> for example, the 811A (the most familiar Class B triode I'm familiar
> with), but that only has a single grid terminal. Am I correct that the
> internal grid structures of an 811A are essentially that of two
> connected grids? If not, what inside an 811A makes it zero-bias high-
> mu class B triode, as opposed to say its externally similar non-
> identical-twin the 812A (a low-to-medium-mu triode that needs bias)?
>

There is more than one way to skin a cat. The 811A is a high mu triode.
There are several ways to create such a beast.

One: place the grid closer to the cathode than to the plate. The ratio
of the distance between grid and cathode vs the distance between cathode
and plate is one of the factors that determine the mu of a triode.

Two: construct the grid with close spaced turns. The closer the turns
of the grid wires are to each other, the higher the mu.

Three: Use two concentric grids. This is very similar to number two.
> I also note that Terman claims that the dual-grid structure forms a
> very good electrostatic shield between heater and plate, and see that
> 811A's are often used in grounded-grid connection in RF amps. (Must be
> a bitch to neutralize in common-cathode).
>

ANY triode works well in grounded grid. A high mu triode will have
better screening due to the close wound grid. Tetrodes such as the
4-400 have been used in grounded grid by grounding both grids. Others
such as the 4cx250 don't have enough heavy enough grids to handle the
current in class AB2 or B so they are run in cathode driven service with
normal grid and screen voltages, but with both grid and screen grounded
for RF.

```
From -7731784213278665064
X-Google-Thread: 112d1e,6db7ceffe7857003
X-Google-Thread: fc2a5,6db7ceffe7857003
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 04 Apr 2007 18:57:54 -0500
Date: Wed, 04 Apr 2007 17:57:50 -0700
From: Donald <Donald@dontdoithere.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Jackrabbits Problem
References: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
<1315m8h92gpr37b@corp.supernews.com>
<MPG.207d914f17cec3be989f3b@newsgroups.bellsouth.net>
<x9VQh.12177$JZ3.9693@newssvr13.news.prodigy.net>
In-Reply-To: <x9VQh.12177$JZ3.9693@newssvr13.news.prodigy.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <xZWdnTZuyeUfponbnZ2dnUVZ_qTinZ2d@comcast.com>
Lines: 25
NNTP-Posting-Host: 24.8.35.112
X-Trace: sv3-
zdof8uMokuI79Z8rzNfx4PbhoohMvv6Y5GTGpLIOCX+tCbIg1aiRerwnmeeD1ZthUiqKpXK1pbNjXLg!
iF17JGq+miMTKmy2SKT9c5fI/+8J1zmZFvtsYrLKFTXgkLCqWkFFrcRci6fU/lbk3bS5iCfcNQc5!
7fsMQjcKOH4QanFhgKxnXc4w884=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
```

```
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com sci.electronics.design:214163
rec.radio.amateur.homebrew:12865

Tom Donaly wrote:
> James Beck wrote:
>
>> In article <1315m8h92gpr37b@corp.supernews.com>,
>> denton@oregontrail.net says...
>>
>>> Low powered pellet gun....
>>
>>
>> I was thinking a subscription to Animal Planet, so she can get up to
>> speed with reality.
>>
>
> Tell her Nature is just testing the males to determine which would
> make the best fathers for new rabbit bambinos, much like  young women
> comparing their suitors' bank balances, assets, and educations when
> choosing the right men to parasitize.
> 73,
> Tom Donaly, KA6RUH

If he has this problem now, "telling her" anything is too late.

Has "Pussy whipped" made a come back ??

donald


From 6074145888909965513
X-Google-Thread: fc2a5,e888aedb3bc24d84,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nntpserver.com!zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-
v0.1!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: The Harry Thomas Show-week in review 04/04/07 better sound now in mp3
From: Harry Thomas <harrythomas@nospam.netzero.net>
Organization: pfabf
Message-ID: <Xns99094A83452Aharrythomasnospamnet@66.150.105.47>
User-Agent: Xnews/5.04.25
Date: 05 Apr 2007 03:34:30 GMT
Lines: 53
NNTP-Posting-Date: 05 Apr 2007 03:34:30 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12866
```

The Harry Thomas Show-week in review 04/04/07 better sound now in mp3
http://harrythomas.mysite.com/
Listen to the show right from the website.

This weeks topics include - EU Common Army, Police State issues,Tasers,911 Truth Movement, Global Warming, new websites and much more

ANNOUNCEMENT : New and Improved Sound now posted in mp3 Format

The Return of The Harry Thomas Show

The "garage talk show" that is reaching out to Worldwide Usenet

after hiatus he is back to inform the people of deception and corruption.

Hosted by Harry Thomas;

The Harry Thomas Show - week in review is a 4 segment show. We have had

tremendous response and we want to thank our Listeners.

Keep them e-mails coming and thanks for your support !

harrythomas@netzero.net

The Show is recorded on Wednesdays
Posted to usenet on Wednesday Nights   to;
alt.binaries.great , - alt.binaries.radio.misc , -
alt.binaries.multimedia.documentary -alt.binaries.sounds.radio.misc, -
alt.binaries.sounds.radio, - alt.binaries.sounds.wma, - and
alt.binaries.multimedia - alt.binaries.mp3
The NFO (information) file posted both days to ;

alt.pirate.radio, - alt.internet.talk.radio, - alt.talk.radio, -
rec.radio.amateur.homebrew, - rec.radio.misc, -
alt.radio.international, - rec.radio.amateur, - alt.radio.talk, -
alt.radio.internet, - and alt.internet.talk-radio

Reposted to usenet on Saturdays to;
alt.binaries.sounds.radio.repost and alt.binaries.multimedia.repost
These are binary newsgroups.

check website for more information
http://harrythomas.mysite.com/

Copies of this show can be e-mailed upon request inquire at;
harrythomas@netzero.net

--
Posted via a free Usenet account from http://www.teranews.com

---

From -1897690211934484O5
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!news.aset.psu.edu!not-for-mail
From: Michael Coslo <mjc5@psu.edu>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Thu, 05 Apr 2007 14:12:06 -0400
Organization: Penn State University, Center for Academic Computing
Lines: 48
Message-ID: <ev3e5t$ojs$1@f04n12.cac.psu.edu>
References: <eu3clr$v5k$1@news.datemas.de>
<gq5f031tjcoq8r4r91n6lu54m78r4flbck@4ax.com>
<6q7f03psrjk7pdj9aalk9sgho5lpequfi7@4ax.com>
NNTP-Posting-Host: nat3.arl.psu.edu
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: f04n12.cac.psu.edu 1175796733 25212 128.118.40.78 (5 Apr 2007 18:12:13 GMT)
X-Complaints-To: usenet@f04n12.cac.psu.edu
NNTP-Posting-Date: Thu, 5 Apr 2007 18:12:13 +0000 (UTC)
User-Agent: Thunderbird 1.5 (Macintosh/20051201)
In-Reply-To: <6q7f03psrjk7pdj9aalk9sgho5lpequfi7@4ax.com>
Xref: g2news1.google.com uk.radio.amateur:107481 rec.radio.amateur.misc:35191 rec.radio.amateur.homebrew:12867

Walt Davidson wrote:
> On Mon, 26 Mar 2007 10:59:07 +0100, Bob <bob@hotmail.com> wrote:
>
>> While I agree with some of what you say about slipping standards,
>> nevertheless numbers are shrinking and new blood must be encouraged into
>> the hobby/pastime/service/pursuit, etc, else we will be gradually
>> whittled away like the dodo until the bands are so empty that
>> governments will gleefully sell off our slices of the RF spectrum.
>
> What rubbish. The bands have never been more crowded. I have been
> active on the HF bands for 47 years and I have never known such a high
> level of activity as there is now. You have been taken in by the
> alarmist propaganda of the RSCB, the CB lobby, and their apologists.

Hear hear, Walt! (pun intended too)

I occasionally read notes from some Hams writing about the "empty bands". I suspect that they mustn't have much in the way of an antenna. ;^)

Perhaps that is okay though, as there appears to be some kind of correlation between those Hams who can't put up a good antenna, and a poisonous attitude.

> The fact that the amateur radio population is ageing has actually
> *increased* band occupancy, because many radio amateurs nowadays are
> retired and are now able to spend many more hours on the air,
> especially on weekdays. Also, much of the "new blood" of which you
> speak actually consists of people aged in their 50s, 60s and 70s ...
> not youngsters in the first flush of youth. These people have a high
> disposable income and plenty of time on their hands.

The demographics have changed. The idea of the Ham who has been licensed since they were 7 years old and has been in the hobby for 50 years is gone - and there weren't that many of them to begin with.

What we have now is the Ham who waited till their children were out of the house, or the Ham who decided to get their license after retirement. I got my license at 45. Big deal. What is needed is enthusiastic NEW Hams. And you can be any age for that.

And yeah, I love Homebrewing. Our club is holding classes in basic homebrewing to see how many of the newbies we can infect with SSA (solder smoke addiction) ;^)

- 73 de Mike KB3EIA -

From 651474860036499999
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news2.google.com!news.glorb.com!news.aset.psu.edu!not-for-mail
From: Michael Coslo <mjc5@psu.edu>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Thu, 05 Apr 2007 14:15:38 -0400
Organization: Penn State University, Center for Academic Computing
Lines: 18
Message-ID: <ev3ec9$ojs$2@f04n12.cac.psu.edu>
References: <eu3clr$v5k$1@news.datemas.de>
<gq5f031tjcoq8r4r91n6lu54m78r4flbck@4ax.com>
<4607a2cd$0$76137$dbd43001@news.wanadoo.nl>
NNTP-Posting-Host: nat3.arl.psu.edu

```
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: f04n12.cac.psu.edu 1175796937 25212 128.118.40.78 (5 Apr 2007 18:15:37
GMT)
X-Complaints-To: usenet@f04n12.cac.psu.edu
NNTP-Posting-Date: Thu, 5 Apr 2007 18:15:37 +0000 (UTC)
User-Agent: Thunderbird 1.5 (Macintosh/20051201)
In-Reply-To: <4607a2cd$0$76137$dbd43001@news.wanadoo.nl>
Xref: g2news1.google.com uk.radio.amateur:107482 rec.radio.amateur.misc:35192
rec.radio.amateur.homebrew:12868
```

know code wrote:

>
> This doesn't sound like anything that is dying.
>
> The only people who try to propagate the myth that the Amateur Service
> is dying are those who have a financial interest (national societies
> through membership numbers and equipment manufacturers/retailers). Don't
> listen to them. Instead, turn on your radio and listen to that
> instead.... you will find it is busier than ever!

That's one good reason, but don't forget those Hams who are tired and bitter and just want to complain.

Especially the ones who can't put up a decent antenna, and think the lack of signals means that no one is on the air! ;^)

- 73 de Mike KB3EIA -

```
From 444800574367643824
X-Google-Thread: 112d1e,6db7ceffe7857003
X-Google-Thread: fc2a5,6db7ceffe7857003
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe23.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
References: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
<1315m8h92gpr37b@corp.supernews.com>
<MPG.207d914f17cec3be989f3b@newsgroups.bellsouth.net>
<x9VQh.12177$JZ3.9693@newssvr13.news.prodigy.net>
Subject: Re: Jackrabbits Problem
Lines: 14
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
```

```
Message-ID: <8ObRh.10546$YJ4.5806@newsfe23.lga>
Date: Thu, 5 Apr 2007 15:07:25 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe23.lga 1175800068 68.0.230.122 (Thu, 05 Apr 2007 12:07:48 MST)
NNTP-Posting-Date: Thu, 05 Apr 2007 12:07:48 MST
Organization: Cox
Xref: g2news1.google.com sci.electronics.design:214585
rec.radio.amateur.homebrew:12869


"Tom Donaly" <dtdonaly@sbcglobal.net> wrote in message  > Tell her Nature is
just testing the males to determine which would
> make the best fathers for new rabbit bambinos, much like  young women
> comparing their suitors' bank balances, assets, and educations when
> choosing the right men to parasitize.
> 73,
> Tom Donaly, KA6RUH

POTD. Tom wins the prize!

Pete k1zjh




From -1789985898601963105
X-Google-Thread: 112d1e,6db7ceffe7857003
X-Google-Thread: fc2a5,6db7ceffe7857003
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!
news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 05 Apr 2007 23:13:13 -0500
From: jasen <jasen@free.net.nz>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Jackrabbits Problem
Date: 5 Apr 2007 22:15:12 GMT
Organization: Debian GNU/Linux site
Message-ID: <ev3sdg$jm0$1@jasen.is-a-geek.org>
References: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
X-Face: ?)Aw4rXwN5u0~$nqKj`xPz>xHCwgi^q+^?Ri*+R(&uv2=E1Q0Zk(>h!
~o2ID@6{uf8s;a+M[5[U[QT7xFN%^gR"=tuJw%TXXR'Fp~W;(T"1(739R%m0Yyyv*gkGoPA.
$b,D.w:z+<'"=-lVT?6{T?=R^:W5g|E2#EhjKCa+nt":4b}
dU7GYB*HBxn&Td$@f%.kl^:7X8rQWd[NTc"P"u6nkisze/Q;8"9Z{peQF,w)7UjV$c|RO/mQW/
NMgWfr5*$-Z%u46"/00mx-,\R'fLPe.)^
User-Agent: slrn/0.9.8.1 (Debian)
X-Original-NNTP-Posting-Host: news.compass.net.nz
X-Original-Trace: 6 Apr 2007 16:13:04 +1200, news.compass.net.nz
Lines: 13
NNTP-Posting-Host: 203.97.37.6
X-Trace: sv3-
dr7OcEU4t9fQDN0vN6YXbMLIiEjrM+UIgRkfdWdo6KRpCQlBqjyWWwq7ljwYh3ekV3QV7Zp2gMRM8kJ!
wxkgWsoGhyczKqgE6DJtbKJ5+jFwvwA+O+qkrhsWc7FW14ZmhMZCxrWPjWnC8U4kcUCeoA==
X-Complaints-To: Complaints to abuse@clear.net.nz
X-DMCA-Complaints-To: Complaints to abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com sci.electronics.design:214763
rec.radio.amateur.homebrew:12870

On 2007-04-01, Paul Burridge <paul@burridge8333.fsbusiness.co.uk> wrote:
> I've decided the best solution is to build a 'bunny
> zapper' type stun-gun. Now it's self-evidently important
> NOT TO KILL THE RABBITS, but they must get a shock sufficient to get
> the message across that violence is unacceptable.

> IMV it should therefore carry JUST enough whack to blow their ears
> clean off.

:) one of the best april-first posts...

Bye.
   Jasen



From -8675162490698478880
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.motzarella.org!
newsfeed.datemas.de!news.datemas.de!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_  Ham Radio?"
Date: Fri, 6 Apr 2007 08:46:50 +0100
Organization: Datemas.de http://www.datemas.de
Lines: 11
Message-ID: <ev4tta$m5b$1@news.datemas.de>
References: <eu3clr$v5k$1@news.datemas.de>
<gq5f031tjcoq8r4r91n6lu54m78r4flbck@4ax.com>
<6q7f03psrjk7pdj9aalk9sgho5lpequfi7@4ax.com> <ev3e5t$ojs$1@f04n12.cac.psu.edu>
X-Trace: news.datemas.de
vfzVu+Ct91femeG9MWizoVOw9LAk9pu6KLu0Usxx8i7cDiK4RyBfp2JWrMe1jB3IhjubgTJ2MLSJvbj80P
MklBdV9wUDJ2/MxBluHm5poZFhqQkywcGKcua/
vy0zUWuJ4Wye2wEPBvwmVdZVV9EgOQAEXUZf15YsEfWsuTLUGrU=
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Fri, 6 Apr 2007 07:46:50 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
```

```
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:107589 rec.radio.amateur.misc:35194
rec.radio.amateur.homebrew:12871
```

NO! NO! NO!

There is no such "need".

Radio Hammery licenses are at an all-time high.

"Michael Coslo" <mjc5@psu.edu> wrote in message
news:ev3e5t$ojs$1@f04n12.cac.psu.edu...

> What is needed is enthusiastic NEW Hams. And you can be any age for that.

```
From -2583499457891723039
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.germany.com!newsfeed.datemas.de!
news.datemas.de!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_  Ham Radio?"
Date: Fri, 6 Apr 2007 08:47:25 +0100
Organization: Datemas.de http://www.datemas.de
Lines: 10
Message-ID: <ev4tud$m5t$1@news.datemas.de>
References: <eu3clr$v5k$1@news.datemas.de>
<gq5f031tjcoq8r4r91n6lu54m78r4flbck@4ax.com>
<4607a2cd$0$76137$dbd43001@news.wanadoo.nl> <ev3ec9$ojs$2@f04n12.cac.psu.edu>
X-Trace: news.datemas.de kztkzy9VPGnUvomOyFpx+iN/
+OTyokqylH+8FOS0wSd0GzrU2N5oFy3FwVL/nr/mIjLUYjVsFB7+fu7mTu/
eUU+nFLuPkavsPYweYz3WXSU98dw8oDgcz9BLoTI2kWjJrn251f+lRANNQL7SopVgTDt05z9Ypq1h4bGhZ
IKTUEw=
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Fri, 6 Apr 2007 07:47:25 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:107590 rec.radio.amateur.misc:35195
rec.radio.amateur.homebrew:12872
```

M3OSN gets everywhere!

"Michael Coslo" <mjc5@psu.edu> wrote in message

```
news:ev3ec9$ojs$2@f04n12.cac.psu.edu...
>
> That's one good reason, but don't forget those Hams who are tired and
> bitter and just want to complain.
>




From 1182941033512071431
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.alt.net
From: "Not Dloyd" <anon@anon>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_  Ham Radio?"
Date: Fri, 6 Apr 2007 03:12:52 -0500
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 15
Message-ID: <r1kuv.fof.17.1@news.alt.net>
References: <eu3clr$v5k$1@news.datemas.de>
<gq5f031tjcoq8r4r91n6lu54m78r4flbck@4ax.com>
<4607a2cd$0$76137$dbd43001@news.wanadoo.nl> <ev3ec9$ojs$2@f04n12.cac.psu.edu>
<ev4tud$m5t$1@news.datemas.de>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Xref: g2news1.google.com uk.radio.amateur:107603 rec.radio.amateur.misc:35196
rec.radio.amateur.homebrew:12873


"G.A.Evans G4SDW" <me@privacy.net> wrote in message
news:ev4tud$m5t$1@news.datemas.de...
> M3OSN gets everywhere!
>
> "Michael Coslo" <mjc5@psu.edu> wrote in message
> news:ev3ec9$ojs$2@f04n12.cac.psu.edu...
> >
> > That's one good reason, but don't forget those Hams who are tired and
> > bitter and just want to complain.
> >
(give this post a few hours...Mark will soon crap on it)
>




From -1439902730892455604
X-Google-Thread: fc2a5,907b3d73cfc8d5b6,start
```

X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!b75g2000hsg.googlegroups.com!not-for-mail
From: "acamil" <acamil@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: WTS Heath SB101
Date: 7 Apr 2007 08:33:16 -0700
Organization: http://groups.google.com
Lines: 5
Message-ID: <1175959996.219604.193380@b75g2000hsg.googlegroups.com>
NNTP-Posting-Host: 69.116.229.212
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1175959996 7542 127.0.0.1 (7 Apr 2007 15:33:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 7 Apr 2007 15:33:16 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.3) Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b75g2000hsg.googlegroups.com; posting-host=69.116.229.212;
   posting-account=YkjRgw0AAABH9oDJ036cRVuMdriGf5fU
Xref: g2news1.google.com rec.radio.amateur.homebrew:12874

I have a Heath SB101 available. Pictures available.

Please send email if you are interested. Located in Clifton NJ USA.
Regards

From 4157030683563010720
X-Google-Thread: fc2a5,fb97746e8f45568b,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.stanford.edu!newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-02!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: simple(?) question...
Date: Sat, 7 Apr 2007 21:30:41 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <131gkv3fim82o56@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 18
Xref: g2news1.google.com rec.radio.amateur.homebrew:12875

What do you do for resistors if you can't get carbon composition in the ratings you need? I built a MFJ-1020A out of surplus and scrap before realizing that the metal film resistors I was using had inductive reactance when used in an RF circuit. My local parts depot mostly just has metal film resistors, not the carbon composition devices I need. Seems I heard somewhere that there is such a thing as non-inductive metal film, but if there is, how do I find it? Otherwise, where can I get carbon composition resistors these days?

Any help would be appreciated. My home-built active antenna (for shortwave) puts out such a terrible signal it is virtually useless.

Thanks,

Dave (an RF newbie)

From 4934819517611242527
X-Google-Thread: fc2a5,fb97746e8f45568b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!news.glorb.com!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe13.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <131gkv3fim82o56@corp.supernews.com>
Subject: Re: simple(?) question...
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <aTYRh.434072$BK1.342315@newsfe13.lga>
Date: Sat, 7 Apr 2007 22:57:46 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe13.lga 1176001094 68.0.230.122 (Sat, 07 Apr 2007 19:58:14 MST)
NNTP-Posting-Date: Sat, 07 Apr 2007 19:58:14 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:12876

"Dave" <db5151@hotmail.com> wrote in message
news:131gkv3fim82o56@corp.supernews.com...

> What do you do for resistors if you can't get carbon composition in the
> ratings you need? I built a MFJ-1020A out of surplus and scrap before

I can't imagine that the resistors have enough inductance to
make any difference at HF. Plus, the reactive component
is in series with the resistance, which would increase the
impedance of the resistance slightly--in most cases that
would be more of a benefit than a hinderance; since I'd
bet most of the resistors are being used for biasing active
components, or to provide signal isolation..

Does anyone have any evidence that it makes a hill of
beans difference at HF?

Pete

```
From -5420689612721596237
X-Google-Thread: fc2a5,fb97746e8f45568b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p77g2000hsh.googlegroups.com!not-for-
mail
From: "laura halliday" <marsgal42@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: simple(?) question...
Date: 7 Apr 2007 22:10:35 -0700
Organization: http://groups.google.com
Lines: 30
Message-ID: <1176009035.002336.164390@p77g2000hsh.googlegroups.com>
References: <131gkv3fim82o56@corp.supernews.com>
   <aTYRh.434072$BK1.342315@newsfe13.lga>
NNTP-Posting-Host: 207.216.165.140
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176009035 17953 127.0.0.1 (8 Apr 2007 05:10:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 8 Apr 2007 05:10:35 +0000 (UTC)
In-Reply-To: <aTYRh.434072$BK1.342315@newsfe13.lga>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; Intel Mac OS X; en) AppleWebKit/419
(KHTML, like Gecko) Safari/419.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p77g2000hsh.googlegroups.com; posting-host=207.216.165.140;
   posting-account=hajlLgwAAABnEIYWRhxcLRahLr8hJUY4
Xref: g2news1.google.com rec.radio.amateur.homebrew:12877
```

On Apr 7, 7:57 pm, "Uncle Peter" <radioconnect...@cox.net> wrote:
> "Dave" <db5...@hotmail.com> wrote in message
>
> news:131gkv3fim82o56@corp.supernews.com...
>
> > What do you do for resistors if you can't get carbon composition in the

> > ratings you need? I built a MFJ-1020A out of surplus and scrap before
>
> I can't imagine that the resistors have enough inductance to
> make any difference at HF. Plus, the reactive component
> is in series with the resistance, which would increase the
> impedance of the resistance slightly--in most cases that
> would be more of a benefit than a hinderance; since I'd
> bet most of the resistors are being used for biasing active
> components, or to provide signal isolation..
>
> Does anyone have any evidence that it makes a hill of
> beans difference at HF?

Lots of stuff that works should be ample evidence.

There are some numbers in Experimental Methods for
RF Design that suggest such resisters are fine to low UHF.
It's really a non-issue.

```
Laura Halliday VE7LDH     "Que les nuages soient notre
Grid: CN89lg                    pied a terre..."
ICBM: 49 16.57 N 123 0.24 W        - Hospital/Shafte
```

```
From -3478083859266805356
X-Google-Thread: fc2a5,fb97746e8f45568b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!
newshosting.com!198.186.194.250.MISMATCH!transit3.readnews.com!news-
out.readnews.com!newspeer1.nwr.nac.net!colt.net!feeder.news-service.com!nntp-
peering.plus.net!ptn-nntp-feeder01.plus.net!ptn-nntp-spool01.plus.net!ptn-nntp-
reader02.plus.net!not-for-mail
Reply-To: "John A" <e455gkf@yahoo.co.uk>
From: "John A" <e455gkf@yahoo.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <131gkv3fim82o56@corp.supernews.com>
Subject: Re: simple(?) question...
Date: Sun, 8 Apr 2007 09:24:12 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Lines: 21
Message-ID: <4618a794$0$8738$ed2619ec@ptn-nntp-reader02.plus.net>
Organization: Customer of PlusNet plc (http://www.plus.net)
NNTP-Posting-Host: 66f43a78.ptn-nntp-reader02.plus.net
X-Trace: DXC=>MAT997n7H=L:gT1hA;kC;igd3Y`7Rb;>37XnI;[OUC4G`jPeGcW;i;b3PPPJ7Iic?
4Tm7de1j468D6kJD0IlFR?
X-Complaints-To: abuse@plus.net
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:12878

"Dave" <db5151@hotmail.com> wrote in message
news:131gkv3fim82o56@corp.supernews.com...

> What do you do for resistors if you can't get carbon composition in the
> ratings you need?

Do what the professionals do - use film resistors. Concerns about inductive effect at HF are greatly exaggerated. There are rarely as many "turns" as often suggested. (cf. Radcom Jan 2007, p58, fig 1!)

>where can I get carbon composition resistors these days?

They are still available. Typically, Farnell offer 220R to 4K7 at 1W - but they are quite expensive.

John A

From 5495360536098802148
X-Google-Thread: fc2a5,fb97746e8f45568b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news1.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-
online.de!feeder.news-service.com!nntp-peering.plus.net!ptn-nntp-
feeder01.plus.net!ptn-nntp-spool01.plus.net!ptn-nntp-spool02.plus.net!ptn-nntp-
reader02.plus.net!not-for-mail
Reply-To: "John A" <e455gkf@yahoo.co.uk>
From: "John A" <e455gkf@yahoo.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <131gkv3fim82o56@corp.supernews.com>
Subject: Re: simple(?) question...
Date: Sun, 8 Apr 2007 09:26:56 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Lines: 22
Message-ID: <4618a794$1$8738$ed2619ec@ptn-nntp-reader02.plus.net>
Organization: Customer of PlusNet plc (http://www.plus.net)
NNTP-Posting-Host: 66f43a78.ptn-nntp-reader02.plus.net
X-Trace: DXC=>MAT997n7HMXcFg<P<YKYJigd3Y`7Rb;N37XnI;
[OUCDG`jPeGcW;iKb3PPPJ7IicO4Tm7de1j46HD6kJD0IlFRO
X-Complaints-To: abuse@plus.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:12879

"Dave" <db5151@hotmail.com> wrote in message
news:131gkv3fim82o56@corp.supernews.com...

> What do you do for resistors if you can't get carbon composition in the
> ratings you need?

Do what the professionals do - use film resistors. Concerns about inductive effect at HF are greatly exaggerated. There are rarely as many "turns" as often suggested. (cf. Radcom Jan 2007, p58, fig 1!)

>where can I get carbon composition resistors these days?

They are still available. Typically, Farnell offer 220R to 4K7 at 1W - but they are quite expensive.

John A

```
From -4957617628871905236
X-Google-Thread: fc2a5,fb97746e8f45568b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 08 Apr 2007 06:04:47 -0500
Message-ID: <Wv$YpJJ2vMGGFAD8@ifwtech.co.uk>
Date: Sun, 8 Apr 2007 12:03:18 +0100
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: simple(?) question...
References: <131gkv3fim82o56@corp.supernews.com>
 <4618a794$0$8738$ed2619ec@ptn-nntp-reader02.plus.net>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<Jk3kzbdhO5cFYFKk6RyHHc1ETO>)
Lines: 28
NNTP-Posting-Host: 82.153.118.193
X-Trace: sv3-
bwHY04Evr30OhWncESrOpIo07fxYL1TGHJrI45JUK2XOi02EUxVwinBdzZjQfOzzYOf+CWj3oBHJ5EV!
qJLjGyI0B0idSTuAli5VRiGS2dA8nfOUa5+CameFGA1H/iQ8yotMyCYIC/3nRo63Zo8OLdBuHmc=
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

```
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12880

John A wrote:
>
>"Dave" <db5151@hotmail.com> wrote in message
>news:131gkv3fim82o56@corp.supernews.com...
>
>> What do you do for resistors if you can't get carbon composition in the
>> ratings you need?
>
>Do what the professionals do - use film resistors. Concerns about inductive
>effect at HF are greatly exaggerated. There are rarely as many "turns" as
>often suggested. ( cf. Radcom Jan 2007, p58, fig 1! )
>
As the person who wrote that article, I strongly agree.

>
>>where can I get carbon composition  resistors these days?
>
>They are still available. Typically, Farnell offer 220R to 4K7 at 1W  -  but
>they are quite expensive.
>
And obsolete, because for every application there is now a better
alternative -  most often, metal film.



--

73 from Ian GM3SEK          'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek


From 1493501778156635864
X-Google-Thread: fc2a5,fb97746e8f45568b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-02!sn-xt-sjc-01!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: simple(?) question...
Date: Sun, 8 Apr 2007 06:45:22 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <131hlf6faqvaof7@corp.supernews.com>
References: <131gkv3fim82o56@corp.supernews.com>
<aTYRh.434072$BK1.342315@newsfe13.lga>
<1176009035.002336.164390@p77g2000hsh.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
```

```
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 43
Xref: g2news1.google.com rec.radio.amateur.homebrew:12881


"laura halliday" <marsgal42@hotmail.com> wrote in message
news:1176009035.002336.164390@p77g2000hsh.googlegroups.com...
> On Apr 7, 7:57 pm, "Uncle Peter" <radioconnect...@cox.net> wrote:
>> "Dave" <db5...@hotmail.com> wrote in message
>>
>> news:131gkv3fim82o56@corp.supernews.com...
>>
>> > What do you do for resistors if you can't get carbon composition in the
>> > ratings you need?  I built a MFJ-1020A out of surplus and scrap before
>>
>> I can't imagine that the resistors have enough inductance to
>> make any difference at HF. Plus, the reactive component
>> is in series with the resistance, which would increase the
>> impedance of the resistance slightly--in most cases that
>> would be more of a benefit than a hinderance; since I'd
>> bet most of the resistors are being used for biasing active
>> components, or to provide signal isolation..
>>
>> Does anyone have any evidence that it makes a hill of
>> beans difference at HF?
>
> Lots of stuff that works should be ample evidence.
>
> There are some numbers in Experimental Methods for
> RF Design that suggest such resisters are fine to low UHF.
> It's really a non-issue.
>
> Laura Halliday VE7LDH     "Que les nuages soient notre
> Grid: CN89lg                    pied a terre..."
> ICBM: 49 16.57 N 123 0.24 W        - Hospital/Shafte
>
>

Hmmm.  Okay, well, could the problem be the monolithic ceramic caps I used?
Something is creating a boatload of harmonics, and that's the only other
component besides the transistors themselves.

Thanks much for the input...

Dave




From 3423458623380978760
X-Google-Thread: fc2a5,fb97746e8f45568b
```

X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-04!sn-ams!sn-feed-ams-01!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Bob Liesenfeld" <wb0poq@visi.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: simple(?) question...
Date: Sun, 8 Apr 2007 07:22:58 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <131hnlelckt7af8@corp.supernews.com>
References: <131gkv3fim82o56@corp.supernews.com>
<aTYRh.434072$BK1.342315@newsfe13.lga>
<1176009035.002336.164390@p77g2000hsh.googlegroups.com>
<131hlf6faqvaof7@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 29
Xref: g2news1.google.com rec.radio.amateur.homebrew:12882

"Dave" <db5151@hotmail.com> wrote in message
news:131hlf6faqvaof7@corp.supernews.com...

> Hmmm. Okay, well, could the problem be the monolithic ceramic caps I used? Something is creating a boatload of harmonics, and that's the only other component besides the transistors themselves.
>
> Thanks much for the input...
>
> Dave

Hi Dave,
This post mentions something that I did not perceive from your first post. You mention a 'boatload of harmonics". As I understand it, the MFJ-1020A is an active antenna circuit, but I don't have any details.
How are you noticing these "harmonics"? If you are hearing them from the receiver this circuit is feeding, my guess is that either the active antenna or the receiver front end is being overloaded and driven into non-linearity.
I would suspect the active antenna.
Can you provide more information? Where are you located, urban or rural?
What kind of system is this circuit a part of?

Bob

```
From 4351315516017790276
X-Google-Thread: fc2a5,fb97746e8f45568b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-
media.com!hw-filter.lga!newsfe19.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <131gkv3fim82o56@corp.supernews.com>
Subject: Re: simple(?) question...
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <5G5Sh.51564$Ng1.40984@newsfe19.lga>
Date: Sun, 8 Apr 2007 08:58:12 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe19.lga 1176037121 68.0.230.122 (Sun, 08 Apr 2007 05:58:41 MST)
NNTP-Posting-Date: Sun, 08 Apr 2007 05:58:41 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:12884


"Dave" <db5151@hotmail.com> wrote in message
news:131gkv3fim82o56@corp.supernews.com...

>
> Any help would be appreciated.  My home-built active antenna (for
> shortwave) puts out such a terrible signal it is virtually useless.
>
> Thanks,
>
> Dave (an RF newbie)
>
>

You are not trying to transmit through this, are you????
>




From -4616151704688063904
X-Google-Thread: fc2a5,fb97746e8f45568b
```

```
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!newsfeed.kamp.net!
newsfeed.kamp.net!newsfeed.freenet.de!feeder.news-service.com!
138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-08!sn-ams!sn-feed-ams-03!sn-post-
ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: simple(?) question...
Date: Sun, 8 Apr 2007 09:37:28 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <131hvhtq9opd111@corp.supernews.com>
References: <131gkv3fim82o56@corp.supernews.com>
<aTYRh.434072$BK1.342315@newsfe13.lga>
<1176009035.002336.164390@p77g2000hsh.googlegroups.com>
<131hlf6faqvaof7@corp.supernews.com> <131hnlelckt7af8@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 46
Xref: g2news1.google.com rec.radio.amateur.homebrew:12885
```

"Bob Liesenfeld" <wb0poq@visi.com> wrote in message
news:131hnlelckt7af8@corp.supernews.com...
>
> "Dave" <db5151@hotmail.com> wrote in message
> news:131hlf6faqvaof7@corp.supernews.com...
>> Hmmm. Okay, well, could the problem be the monolithic ceramic caps I
>> used? Something is creating a boatload of harmonics, and that's the only
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>>
>> Thanks much for the input...
>>
>> Dave
>
>
> Hi Dave,
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> non-linearity. I would suspect the active antenna.
> Can you provide more information? Where are you located, urban or rural?
> What kind of system is this circuit a part of?
>
> Bob
>

Hey Bob,

I am feeding a signal from my RF signal generator to the circuit on my workbench. I mention harmonics because the sinewave goes from nice and clean to "blurry" and looking "smeared" across the screen of my O-scope. I may *be* overloading it, but I thought that would result in clipping of the waveform. I have the signal generator set to attenuate the signal severely, and *thought* that would prevent overloading. Maybe not...

Back to work on it some more, and try to make sure I am not overloading the device.

Thanks,

Dave

From 3281532837655070804
X-Google-Thread: fc2a5,fb97746e8f45568b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.germany.com!feeder.news-service.com!newsgate.cistron.nl!xs4all!news.tele.dk!news.tele.dk!small.news.tele.dk!sn-xt-sjc-02!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Bob Liesenfeld" <wb0poq@visi.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: simple(?) question...
Date: Sun, 8 Apr 2007 09:56:18 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <131i0kvti22ga0a@corp.supernews.com>
References: <131gkv3fim82o56@corp.supernews.com>
<aTYRh.434072$BK1.342315@newsfe13.lga>
<1176009035.002336.164390@p77g2000hsh.googlegroups.com>
<131hlf6faqvaof7@corp.supernews.com> <131hnlelckt7af8@corp.supernews.com>
<131hvhtq9opd111@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 25
Xref: g2news1.google.com rec.radio.amateur.homebrew:12886

> Hey Bob,
>
> I am feeding a signal from my RF signal generator to the circuit on my
> workbench. I mention harmonics because the sinewave goes from nice and
> clean to "blurry" and looking "smeared" across the screen of my O-scope.

> I may *be* overloading it, but I thought that would result in clipping of
> the waveform. I have the signal generator set to attenuate the signal
> severely, and *thought* that would prevent overloading. Maybe not...
>
> Back to work on it some more, and try to make sure I am not overloading
> the device.
>
> Thanks,
>
> Dave

Hi again Dave,
It is also possible that the circuit is oscillating. I have seen amps are ok with no input signal but will break into oscillation when a certain freq/amplitude input signal is applied (and vice versa). How did you build this thing? Circuit board, protoboard, dead bug.....???

Bob

From -4150321290045286388
X-Google-Thread: fc2a5,fb97746e8f45568b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.stanford.edu!newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-03!sn-xt-sjc-07!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: simple(?) question...
Date: Sun, 8 Apr 2007 11:23:22 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <131i5oefs4vb424@corp.supernews.com>
References: <131gkv3fim82o56@corp.supernews.com>
<aTYRh.434072$BK1.342315@newsfe13.lga>
<1176009035.002336.164390@p77g2000hsh.googlegroups.com>
<131hlf6faqvaof7@corp.supernews.com> <131hnlelckt7af8@corp.supernews.com>
<131hvhtq9opd111@corp.supernews.com> <131i0kvti22ga0a@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 52
Xref: g2news1.google.com rec.radio.amateur.homebrew:12887

"Bob Liesenfeld" <wb0poq@visi.com> wrote in message
news:131i0kvti22ga0a@corp.supernews.com...
>> Hey Bob,

>>
>> I am feeding a signal from my RF signal generator to the circuit on my
>> workbench. I mention harmonics because the sinewave goes from nice and
>> clean to "blurry" and looking "smeared" across the screen of my O-scope.
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> are ok with no input signal but will break into oscillation when a certain
> freq/amplitude input signal is applied (and vice versa). How did you
> build this thing? Circuit board, protoboard, dead bug.....???
>
> Bob
>

Hey Bob, thanks for your interest.

I built it on a piece of perfboard with point to point wiring, clustering the active components and their biasing resistors fairly closely. I don't *think* it is oscillating, although to wouldn't swear to anything just now.

I have the signal attenuated as much as possible, to the point where it doesn't even cause a wiggle on the scope with my X10 probes and the scope set to 50mV/div. With the tuner set to resonate, it shows up as about 30 or 35 mV (5 MHz) going into the circuit. The output is 70 or 80 mV, but it is "blurred" and "smeared" as I described. Also, I just realized that the scope shows *2* traces, each identicle to the other (only using one channel, and one scope probe.) I can upload pictures of all this if desired, probably to alt.binaries.schematics.electronic. Don't know how else to describe what I am seeing. How could one signal become two traces, each identicle to the other?

Thanks much,

Dave

From -1710144876425214O3
X-Google-Thread: fc2a5,fb97746e8f45568b
X-Google-Attributes: gidfc2a5,public

```
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
Message-ID: <461942A8.3000508@nettally.com>
Date: Sun, 08 Apr 2007 15:29:44 -0400
From: **THE-RFI-EMI-GUY** <rhyolite@nettally.com>
Organization: Central Scrutinizer
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To: Dave <db5151@hotmail.com>
Subject: Re: simple(?) question...
References: <131gkv3fim82o56@corp.supernews.com>
<aTYRh.434072$BK1.342315@newsfe13.lga>
<1176009035.002336.164390@p77g2000hsh.googlegroups.com>
<131hlf6faqvaof7@corp.supernews.com>
In-Reply-To: <131hlf6faqvaof7@corp.supernews.com>
Content-Type: multipart/alternative;
 boundary="------------020802050802030804040008"
Lines: 159
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12888

This is a multi-part message in MIME format.
--------------020802050802030804040008
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit

Wrong resistor value = bad biasing = harmonics? Just a S.W.A.G?

Dave wrote:

>"laura halliday" <marsgal42@hotmail.com> wrote in message
>news:1176009035.002336.164390@p77g2000hsh.googlegroups.com...
>
>
>>On Apr 7, 7:57 pm, "Uncle Peter" <radioconnect...@cox.net> wrote:
>>
>>
>>>"Dave" <db5...@hotmail.com> wrote in message
>>>
>>>news:131gkv3fim82o56@corp.supernews.com...
>>>
>>>
>>>
>>>>What do you do for resistors if you can't get carbon composition in the
>>>>ratings you need?  I built a MFJ-1020A out of surplus and scrap before
>>>>
>>>>
>>>I can't imagine that the resistors have enough inductance to
```

```
>>>make any difference at HF. Plus, the reactive component
>>>is in series with the resistance, which would increase the
>>>impedance of the resistance slightly--in most cases that
>>>would be more of a benefit than a hinderance; since I'd
>>>bet most of the resistors are being used for biasing active
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>>>
>>>
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>>Laura Halliday VE7LDH     "Que les nuages soient notre
>>Grid: CN89lg                    pied a terre..."
>>ICBM: 49 16.57 N 123 0.24 W        - Hospital/Shafte
>>
>>
>>
>>
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>Something is creating a boatload of harmonics, and that's the only other
>component besides the transistors themselves.
>
>Thanks much for the input...
>
>Dave
>
>
>
>

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money"  ;-P



--------------020802050802030804040008
Content-Type: text/html; charset=us-ascii
Content-Transfer-Encoding: 7bit

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
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<head>
  <meta content="text/html;charset=ISO-8859-1" http-equiv="Content-Type">
  <title></title>
</head>
<body bgcolor="#ffffff" text="#000000">
Wrong resistor value = bad biasing = harmonics? Just a S.W.A.G?<br>
<br>
Dave wrote:<br>
<blockquote cite="mid131hlf6faqvaof7@corp.supernews.com" type="cite">
  <pre wrap="">"laura halliday" <a class="moz-txt-link-rfc2396E"
href="mailto:marsgal42@hotmail.com">&lt;marsgal42@hotmail.com&gt;</a> wrote in
message
<a class="moz-txt-link-freetext"
href="news:1176009035.002336.164390@p77g2000hsh.googlegroups.com">news:1176009035.
002336.164390@p77g2000hsh.googlegroups.com</a>...
  </pre>
  <blockquote type="cite">
    <pre wrap="">On Apr 7, 7:57 pm, "Uncle Peter" <a class="moz-txt-link-rfc2396E"
href="mailto:radioconnect...@cox.net">&lt;radioconnect...@cox.net&gt;</a> wrote:
    </pre>
    <blockquote type="cite">
      <pre wrap="">"Dave" <a class="moz-txt-link-rfc2396E"
href="mailto:db5...@hotmail.com">&lt;db5...@hotmail.com&gt;</a> wrote in message

<a class="moz-txt-link-freetext"
href="news:131gkv3fim82o56@corp.supernews.com">news:131gkv3fim82o56@corp.supernews
.com</a>...

      </pre>
      <blockquote type="cite">
        <pre wrap="">What do you do for resistors if you can't get carbon
composition in the
ratings you need?  I built a MFJ-1020A out of surplus and scrap before
        </pre>
      </blockquote>
      <pre wrap="">I can't imagine that the resistors have enough inductance to
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impedance of the resistance slightly--in most cases that
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Does anyone have any evidence that it makes a hill of
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      </pre>
    </blockquote>
    <pre wrap="">Lots of stuff that works should be ample evidence.

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RF Design that suggest such resisters are fine to low UHF.
It's really a non-issue.
```

```
Laura Halliday VE7LDH     "Que les nuages soient notre
Grid: CN89lg                    pied a terre..."
ICBM: 49 16.57 N 123 0.24 W        - Hospital/Shafte


    </pre>
  </blockquote>
  <pre wrap=""><!---->
Hmmm.  Okay, well, could the problem be the monolithic ceramic caps I used?
Something is creating a boatload of harmonics, and that's the only other
component besides the transistors themselves.

Thanks much for the input...

Dave



  </pre>
</blockquote>
<br>
<pre class="moz-signature" cols="72">--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"&copy;

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money"  ;-P

</pre>
</body>
</html>

--------------020802050802030804040008--


From -3626471208223603634
X-Google-Thread: fc2a5,fb97746e8f45568b
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mail
From: "AF6AY" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: simple(?) question...
Date: 8 Apr 2007 13:32:40 -0700
Organization: http://groups.google.com
Lines: 67
Message-ID: <1176064360.129103.143450@y80g2000hsf.googlegroups.com>
References: <131gkv3fim82o56@corp.supernews.com>
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   <Wv$YpJJ2vMGGFAD8@ifwtech.co.uk>
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NNTP-Posting-Date: Sun, 8 Apr 2007 20:32:40 +0000 (UTC)
In-Reply-To: <Wv$YpJJ2vMGGFAD8@ifwtech.co.uk>
User-Agent: G2/1.0
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Complaints-To: groups-abuse@google.com
Injection-Info: y80g2000hsf.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com rec.radio.amateur.homebrew:12889

From: Ian White GM3SEK <gm3...@ifwtech.co.uk> on Sun, 8 Apr 2007 12:03:18 +0100

>John A wrote:
>>"Dave" <db5...@hotmail.com> wrote in message

>>> What do you do for resistors if you can't get carbon composition in the
>>> ratings you need?
>
>>Do what the professionals do - use film resistors. Concerns about inductive
>>effect at HF are greatly exaggerated. There are rarely as many "turns" as
>>often suggested. (cf. Radcom Jan 2007, p58, fig 1!)
>
>As the person who wrote that article, I strongly agree.

Hello Ian,

I don't get a chance to read Radio Communications often and didn't see your article. As a professional in the design end, I'll offer a few comments:

There is still (needless) confusion in amateurism as to metal film resistors' "inductance" in comparison to wire-wound resistors which DO have considerable self-inductance.

While there IS some self-inductance in metal film resistors (due to laser-trimming and patterns of film on the usually ceramic substrate), it is difficult as @#$%!!! to measure and easier (but still grudge work) to model as a conductive strip spiral-wound on the same physical dimensions. For nearly all amateur applications up to and including 6m, that won't be noticeable. With some caveats, of course.

Self-inductance of metal-film resistors will vary depending on the manufacturer and their methods. So will construction which adds varying self-capacitance from the end-caps (metal) holding the wire leads. Self-capacitance is easier to measure on a Q-Meter but is seldom over a half a pFd. That results in an equivalent of a resistor in series with self-inductance, the whole in parallel with self-capacitance. The effect on a circuit depends on WHERE it is placed in the circuit. I've found that carbon-composition resistors - in general - have a slightly higher self-capacitance...but that depends on who made them and what internal structures were involved (has to be broken and observed if no X-Ray machine is handy).

As a dummy load consisting of many smaller resistors in series-parallel, one can estimate the total capacitance and inductance based on individual resistor models arranged in whatever combination is planned. Offhand, I'd say that rarely does that affect the dummy load's VSWR beyond 1.3 at 6m. In arranging a series-parallel combination, there will probably be more effect from whatever conductors' shape are in doing the interconnects...less so if on a PCB, probably more if by wires. A good rule-of-thumb is simply "make all connections as short as possible, consistent with allowing air flow to dissipate heat."

The only place to get paranoid about effects of self-inductance and self-capacitance is in metrology. Metrology NEEDS to have a minimum of each and to have accurate resistance values at the rated frequencies. Everyday dummy loads for amateur radio are far from lab-quality metrological stuff and don't need to be in that precision range.

73, Len AF6AY

From -5024705220229328877
X-Google-Thread: fc2a5,fb97746e8f45568b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d57g2000hsg.googlegroups.com!not-for-mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: simple(?) question...
Date: 8 Apr 2007 14:11:04 -0700
Organization: http://groups.google.com
Lines: 84
Message-ID: <1176066664.666429.241260@d57g2000hsg.googlegroups.com>
References: <131gkv3fim82o56@corp.supernews.com>
<aTYRh.434072$BK1.342315@newsfe13.lga>
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Complaints-To: groups-abuse@google.com
Injection-Info: d57g2000hsg.googlegroups.com; posting-host=71.113.49.139;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news1.google.com rec.radio.amateur.homebrew:12890

On Apr 8, 9:23 am, "Dave" <db5...@hotmail.com> wrote:
> "Bob Liesenfeld" <wb0...@visi.com> wrote in message
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There are lots of things you can do to determine what the problem really is. I'd guess it's unlikely that it's the resistors. I've used 2W metal-oxide spiral film resistors out to 450MHz for a dummy load, and the load had a very low reflection coefficient out to 2 meters, and quite usable at 450MHz, per an HP network analyzer.

In fact, carbon composition may NOT actually be better! They may show less inductance, but greater variation in resistance, than film-type.

In addition, if the resistors are used to bias transistors, and not as RF loads, a little self-inductance is not necessarily a bad thing. At first I thought your circuit was an RF bridge or some such, but apparently that's not the case. I do think you've barked up the wrong tree, and just need to find the right one. Leave no tree unbarked??

Cheers,
Tom

From 8560913178839881778
X-Google-Thread: fc2a5,fb97746e8f45568b
X-Google-Attributes: gidfc2a5,public

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!sn-xt-sjc-04!sn-xt-sjc-06!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: simple(?) question...
Date: Sun, 8 Apr 2007 16:45:36 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <131iokkddtaucf4@corp.supernews.com>
References: <131gkv3fim82o56@corp.supernews.com>
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X-Complaints-To: abuse@supernews.com
Lines: 109
Xref: g2news1.google.com rec.radio.amateur.homebrew:12891


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news:1176066664.666429.241260@d57g2000hsg.googlegroups.com...
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X-Google-Thread: fc2a5,fb97746e8f45568b
X-Google-Attributes: gidfc2a5,public
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Path: g2news1.google.com!news2.google.com!newshub.stanford.edu!sn-xt-sjc-02!sn-xt-
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From: "Dave" <db5151@hotmail.com>
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Subject: Re: simple(?) question...
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Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <131itgm16gqgj0e@corp.supernews.com>
References: <131gkv3fim82o56@corp.supernews.com>
<aTYRh.434072$BK1.342315@newsfe13.lga>
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X-Complaints-To: abuse@supernews.com
Lines: 128
Xref: g2news1.google.com rec.radio.amateur.homebrew:12892


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news:131iokkddtaucf4@corp.supernews.com...
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Just posted jpegs of the scopetrace/schematic/device under test to
alt.binaries.schematics.electronic. Please let me know if I can provide
anything else for this discussion. Thanks to all...

Dave

I'm off to fiddle with the triggering level, which I meant to do earlier.

From 5074514282004422191
X-Google-Thread: fc2a5,fb97746e8f45568b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
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NNTP-Posting-Date: Mon, 09 Apr 2007 08:04:21 -0500
Message-ID: <9oy9m4MnljGGFA2l@ifwtech.co.uk>
Date: Mon, 9 Apr 2007 14:02:31 +0100
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: simple(?) question...
References: <131gkv3fim82o56@corp.supernews.com>
 <4618a794$0$8738$ed2619ec@ptn-nntp-reader02.plus.net>
 <Wv$YpJJ2vMGGFAD8@ifwtech.co.uk>
 <1176064360.129103.143450@y80g2000hsf.googlegroups.com>
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X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12893

AF6AY wrote:
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> Hello Ian,
>
> I don't get a chance to read Radio Communications often and didn't see your article. As a professional in the design end, I'll offer a few comments:
>

Hello Len

I beg your pardon, that was a different article by someone else. The one that I wrote, on the same subject, was in Radcom for July 2005.

Even so, both articles were saying the same thing - and you have written almost exactly the same again below! Nothing uncanny about that, of course: we are all looking at the same resistors, and noticing the same things.

> There is still (needless) confusion in amateurism as to metal film resistors' "inductance" in comparison to wire-wound resistors which DO have considerable self-inductance.
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It seems to be part of amateur radio's eternal quest to reduce the whole of RF engineering to a series of simple one-liners, like "carbon composition = non-inductive = good" and "spiral = inductive = bad".

The vital part that gets squeezed out is always "by how much"?

> While there IS some self-inductance in metal film resistors (due to laser-trimming and patterns of film on the usually ceramic substrate), it is difficult as @#$%!!! to measure and easier (but still grudge work) to model as a conductive strip spiral-wound on the same physical dimensions.

I was able to make some measurements of (R+jX) using the N2PK VNA, with a test jig made from PC board and copper foil, and some care in the choice of open, short and 50R calibration standards. Sweeping from 60kHz to 60MHz gave almost constant R, and a "good straight line" of X against frequency. This implied that a simple series L-R model would be valid, and that self-capacitance effects were not significant over the measured frequency range.

> For nearly all
> amateur applications up to and including 6m, that won't be
> noticeable. With some caveats, of course.
>

Exactly so.

> Self-inductance of metal-film resistors will vary depending on
> the manufacturer and their methods.

Yes, very much so.

All of these tubular metal film resistors are based on a cylindrical rod of ceramic, with metal end caps connecting to the wire leads. A continuous layer of resistive film is deposited on the surface of the ceramic to form a continuous cylinder. A range of resistance values can then be achieved by cutting away some of the metal film - normally they remove a narrow spiral of material, leaving behind a broad spiral ribbon of film.

The resistance value will depend on the width and the total number of turns in this ribbon. The self-inductance will depend mostly on the number of turns (along with the other body dimensions, of course). When the number of turns gets much above about 10, the ribbon becomes quite narrow, which makes it difficult to keep control over the resistance tolerance. At that point, the manufacturer will switch to a base material of higher resistivity, so the next-higher value of resistor will drop back to having the minimum number of spiral turns; and so the cycle repeats.

This has two important results:

1. Some values of resistor will have significantly more or less inductance than others. All the way up the resistance range, from typically1 ohm to 10Mohm, there will be a series of break-points where the inductance flips between roughly the maximum and minimum possible values.

2. These break-points will vary from one manufacturer to another - for a given standard value of resistance, the inductance could be wildly different (ask Elecraft about that one!)

For 3W resistors using 3-4 spiral turns, I measured about 4nH. This correlated fairly well with the value calculated using the usual inductance formula.

Even in the worst case of about 10 spiral turns, the inductance would only be about 150nH, which is low enough for most RF applications up to 30MHz. For example, in a 50 ohm resistor, 150nH of series inductance would increase the VSWR to about 1.75 at 30MHz.

But that is very much a worst case. If VSWR matters at all, you would use a larger number of higher-value resistors connected in parallel, as Len describes below. This would divide the effect of the inductance by the number of resistors used.

> So will construction which adds varying self-capacitance from the end-caps (metal) holding the wire leads. Self-capacitance is easier to measure on a Q-Meter but is seldom over a half a pFd. That results in an equivalent of a resistor in series with self-inductance, the whole in parallel with self-capacitance. The effect on a circuit depends on WHERE it is placed in the circuit.

And the frequency, of course.

Agreed with everything else too...

> I've found that carbon-composition resistors - in general - have a slightly higher self-capacitance...but that depends on who made them and what internal structures were involved (has to be broken and observed if no X-Ray machine is handy).
>
> As a dummy load consisting of many smaller resistors in series-parallel, one can estimate the total capacitance and inductance based on individual resistor models arranged in whatever combination is planned. Offhand, I'd say that rarely does that affect the dummy load's VSWR beyond 1.3 at 6m. In arranging a series-parallel combination, there will probably be more effect from whatever conductors' shape are in doing the interconnects...less so if on a PCB, probably more if by wires. A good rule-of-thumb is simply "make all connections as short as possible, consistent with allowing air flow to dissipate heat."
>
> The only place to get paranoid about effects of self-inductance and self-capacitance is in metrology. Metrology NEEDS to have a minimum of each and to have accurate resistance values at the rated frequencies. Everyday dummy loads for amateur radio are far from lab-quality metrological stuff and don't need to be in that precision range.
>
> 73, Len AF6AY
>

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

```
From -575772853504738294
X-Google-Thread: fc2a5,a92194806bfc73e3,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!news.litech.org!not-for-
mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Pointers to (or on) block downconverter construction?
Date: Mon, 9 Apr 2007 13:54:24 +0000 (UTC)
Organization: Me?
Lines: 40
Sender: mikea@mikea.ath.cx
Message-ID: <evdgig$toq$1@puck.litech.org>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1176126864 30490 68.15.203.64 (9 Apr 2007 13:54:24 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Mon, 9 Apr 2007 13:54:24 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news1.google.com rec.radio.amateur.homebrew:12894
```

I've got, and love, an RFSpace Inc. SDR-IQ software-defined receiver. It covers 100 Hz to 30 MHz, and lets me eyeball any 190 KHz (or narrower) chunk all at once, which is rather particularly nice. I'd like to be able to use it on 30 to 60 MHz and higher, which means that I need a downconverter. It seems to me that a suitable downconverter would let me set a switch to choose which 30 MHz band got mixed down to the roughly 0-30 MHz baseband.

I'd like to have this work up through the 70 cm. ham band for sure, and as much higher as I can get. I know that construction techniques change as one gets above HF, and change _radically_ at UHF and above. How hard is this going to be, overall?

The general setup I envision is something rather like

```
                               LO
                              n*30MHz
(n to                          |
(n+1))                         |
* 30 MHz    30 MHz wide        V        0 to 30 MHz
input --> bandpass filter --> mixer --> output
                                        to SDR-IQ
```

Some questions for the (perhaps not older: I'm 60) wiser heads with

more design-and-construction experience: is this at all a reasonable
thing to do? Does anyone have any ideas on suitable mixers? Am I
looking at a disparate-enough set of frequency bands that I will wind
up having to use multiple mixers, possibly one per 30 MHz band, or
per octave? It is trivially obvious to me that I'll need different
antennas.

Is it reasonable to look at using a comb generator which is driven by
a 30 MHz reference, so that I just take the appropriate harmonic and
amplify it to a power level that suits the mixer I have to use for
that particular 30 MHz band?

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From -5159185485529722732
X-Google-Thread: fc2a5,fb97746e8f45568b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe12.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <131gkv3fim82o56@corp.supernews.com> <4618a794$1$8738$ed2619ec@ptn-nntp-reader02.plus.net>
Subject: Re: simple(?) question...
Lines: 34
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <%ysSh.33$Xq6.0@newsfe12.lga>
Date: Mon, 9 Apr 2007 11:01:15 -0400
NNTP-Posting-Host: 24.236.172.239
X-Trace: newsfe12.lga 1176130875 24.236.172.239 (Mon, 09 Apr 2007 08:01:15 MST)
NNTP-Posting-Date: Mon, 09 Apr 2007 08:01:15 MST
Xref: g2news1.google.com rec.radio.amateur.homebrew:12895

All of the discussion about metal film resistors and a pF here or there of
stray capacitance is interesting, but the symptom sounds to me a lot like a
cold solder joint.

..

"John A" <e455gkf@yahoo.co.uk> wrote in message
news:4618a794$1$8738$ed2619ec@ptn-nntp-reader02.plus.net...
>
> "Dave" <db5151@hotmail.com> wrote in message
> news:131gkv3fim82o56@corp.supernews.com...

```
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>> What do you do for resistors if you can't get carbon composition in the
>> ratings you need?
>
> Do what the professionals do - use film resistors. Concerns about
> inductive
> effect at HF are greatly exaggerated. There are rarely as many "turns" as
> often suggested. ( cf. Radcom Jan 2007, p58, fig 1! )
>
>
>>where can I get carbon composition  resistors these days?
>
> They are still available. Typically, Farnell offer 220R to 4K7 at 1W  -
> but
> they are quite expensive.
>
>
> John A
>
>
>
```

```
From 168000243398858695
X-Google-Thread: fc2a5,fb97746e8f45568b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.glorb.com!peer1.news.newnet.co.uk!
213.210.46.30.MISMATCH!peernews.inweb.co.uk!news.freedom2surf.net!nntp-
peering.plus.net!ptn-nntp-feeder03.plus.net!ptn-nntp-spool01.plus.net!ptn-nntp-
reader02.plus.net!not-for-mail
Reply-To: "John A" <e455gkf@yahoo.co.uk>
From: "John A" <e455gkf@yahoo.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <131gkv3fim82o56@corp.supernews.com> <4618a794$0$8738$ed2619ec@ptn-
nntp-reader02.plus.net> <Wv$YpJJ2vMGGFAD8@ifwtech.co.uk>
<1176064360.129103.143450@y80g2000hsf.googlegroups.com>
<9oy9m4MnljGGFA2l@ifwtech.co.uk>
Subject: Re: simple(?) question...
Date: Mon, 9 Apr 2007 16:05:18 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Lines: 17
Message-ID: <461a5677$0$8740$ed2619ec@ptn-nntp-reader02.plus.net>
Organization: Customer of PlusNet plc (http://www.plus.net)
NNTP-Posting-Host: 4037ff80.ptn-nntp-reader02.plus.net
X-Trace: DXC=U4U`]`fBFj2nNbie3M<@22igd3Y`7Rb;>37XnI;[OUC4G`jPeGcW;i;BBR?
JCVN2k=4Tm7de1j468k]E?>4GPQh:
X-Complaints-To: abuse@plus.net
```

Xref: g2news1.google.com rec.radio.amateur.homebrew:12896

"Ian White GM3SEK" <gm3sek@ifwtech.co.uk> wrote in message
news:9oy9m4MnljGGFA2l@ifwtech.co.uk...

> I beg your pardon, that was a different article by someone else. The one
> that I wrote, on the same subject, was in Radcom for July 2005.
>

Ahh! I was wondering how to break the news to you, Ian!

BTW, I was making a critical reference to that figure in G3LDO's article. It is figures like that that reinforce perceptions of significant inductance in such resistors.

John A

From -4564045998801169748
X-Google-Thread: fc2a5,fb97746e8f45568b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!newshub.stanford.edu!newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-03!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: simple(?) question...
Date: Mon, 9 Apr 2007 10:53:30 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <131kocfqktb8v67@corp.supernews.com>
References: <131gkv3fim82o56@corp.supernews.com> <4618a794$0$8738$ed2619ec@ptn-nntp-reader02.plus.net> <Wv$YpJJ2vMGGFAD8@ifwtech.co.uk> <1176064360.129103.143450@y80g2000hsf.googlegroups.com> <9oy9m4MnljGGFA2l@ifwtech.co.uk>
X-Priority: 3
X-MSMail-Priority: Normal
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X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Complaints-To: abuse@supernews.com
Lines: 156
Xref: g2news1.google.com rec.radio.amateur.homebrew:12897

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>>   noticeable. With some caveats, of course.
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> Exactly so.
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>>   the manufacturer and their methods.
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> Yes, very much so.
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> All of these tubular metal film resistors are based on a cylindrical rod
> of ceramic, with metal end caps connecting to the wire leads. A continuous
> layer of resistive film is deposited on the surface of the ceramic to form
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> And the frequency, of course.

```
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>
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>
> --
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> 73 from Ian GM3SEK         'In Practice' columnist for RadCom (RSGB)
> http://www.ifwtech.co.uk/g3sek
```

Wow. This is incredible, and I thank you for sharing it. I had no idea,
but now I do. Thank you Ian.

Dave

```
From 2332654888853232683
X-Google-Thread: fc2a5,fb97746e8f45568b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
140.99.99.194.MISMATCH!news-in-02.newsfeed.easynews.com!easynews.com!easynews!sn-
```

```
xt-sjc-02!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-
mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: simple(?) question...
Date: Mon, 9 Apr 2007 10:56:06 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <131kohac2tun7d6@corp.supernews.com>
References: <131gkv3fim82o56@corp.supernews.com> <4618a794$1$8738$ed2619ec@ptn-
nntp-reader02.plus.net> <%ysSh.33$Xq6.0@newsfe12.lga>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Complaints-To: abuse@supernews.com
Lines: 45
Xref: g2news1.google.com rec.radio.amateur.homebrew:12898


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news:%ysSh.33$Xq6.0@newsfe12.lga...
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```

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>> John A
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From -7701741148612904358
X-Google-Thread: fc2a5,6de84d50eff74ed9,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out03b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!pc02.usenetserver.com!NAXS.COM-
a2kHrUvQQWlmc!not-for-mail
Reply-To: "Jim" <jbasi@cfw.com>
From: "Jim" <jbasi@cfw.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: IR adapter hack
Date: Mon, 9 Apr 2007 22:30:06 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <59234$461a8606$d80c3c03$8222@NAXS.COM>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 44
X-Trace: 59234461a86067da999a608222
Xref: g2news1.google.com rec.radio.amateur.homebrew:12899

I would like some help in hacking an IR printer adapter made for the HP 350c printer. This is a tiny pc board with a minimum of components connected via 8 wires to a parallel printer connector. I would like to put this to use as a serial port to IRDA device if possible. Yes, I know there are probably simpler ways, but this is a very tiny board, and I'd like to learn from it anyway.

This board is different from others I have torn into. It has an IRDA transmitter/receiver encoder/decoder similar to but a bit smaller than the HSDL7001 but only has the numbers R800 and 016A on the back. This is a through hole, 9 staggered pin device. This adapter was sold by HP so is this R800 an HP part? Wish I had a data sheet!

In addition there is a small crystal with the frequency 3.68 mhz but no processor......but does have 3 transistors, 2 resistors, and 2 capacitors (all surface mount). I think this is the frequency specified for 16xclk.

On the connector side, the only used pins are:

18 +5v
19 gnd
10 low-ack
1   low data strobe
13 high
12 high-paper end
19 gnd

19-31-36 (low) (gnd) are all conncted
11-16 connected (gnd)

The presence of the crystal leads me to believe that the baud rate is taken care of already, on-board. So how do I go about finding where the rx and tx connections should be. Or is this even possible? The circuit is obviosly getting it's power (5v) from the printer.

I have in mind to use this on my Etrex GPS to upload/download info via IR from my computer.

Thanks
Jim

From -325415932715492387
X-Google-Thread: fc2a5,a92194806bfc73e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n76g2000hsh.googlegroups.com!not-for-mail
From: "AF6AY" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Pointers to (or on) block downconverter construction?
Date: 9 Apr 2007 11:41:42 -0700
Organization: http://groups.google.com
Lines: 119
Message-ID: <1176144102.914875.254070@n76g2000hsh.googlegroups.com>
References: <evdgig$toq$1@puck.litech.org>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1176144103 19144 127.0.0.1 (9 Apr 2007 18:41:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 9 Apr 2007 18:41:43 +0000 (UTC)
In-Reply-To: <evdgig$toq$1@puck.litech.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;

```
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-tb08.proxy.aol.com[CFC870A5] (Prism/1.1.9), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: n76g2000hsh.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com rec.radio.amateur.homebrew:12900

Mike Andrews wrote on Apr 9, 6:26 am:

>I've got, and love, an RFSpace Inc. SDR-IQ software-defined receiver.
>It covers 100 Hz to 30 MHz, and lets me eyeball any 190 KHz (or
>narrower) chunk all at once, which is rather particularly nice. I'd
>like to be able to use it on 30 to 60 MHz and higher, which means that
>I need a downconverter. It seems to me that a suitable downconverter
>would let me set a switch to choose which 30 MHz band got mixed down
>to the roughly 0-30 MHz baseband.
>
>I'd like to have this work up through the 70 cm. ham band for sure,
>and as much higher as I can get. I know that construction techniques
>change as one gets above HF, and change _radically_ at UHF and above.
>How hard is this going to be, overall?

Offhand, NOT hard at all...with the aid of some MiniCircuits
components such as the mixer and perhaps an input low-pass
filters.  The down-converter's LO is going to be the bear
if you want frequency accuracy.

>The general setup I envision is something rather like
>
>                               LO
>                              n*30MHz
>(n to                          |
>(n+1))                         |
>* 30 MHz    30 MHz wide        V        0 to 30 MHz
>input --> bandpass filter --> mixer --> output
>                                        to SDR-IQ

That's the general block diagram of every down-converter.  :-)
With perhaps the exception of the "30 MHz wide BPF."  Nearly all
wideband spectrum analyzers use a lowpass filter there with the
LO riding ABOVE the input frequency; image will be on the "high
side" and that is blocked-out by the LPF.

>Some questions for the (perhaps not older: I'm 60) wiser heads with
>more design-and-construction experience: is this at all a reasonable
>thing to do?

Absoutely reasonable.

>Does anyone have any ideas on suitable mixers?
```

I would suggest going to www.minicircuits.com and seeing what they have...a rather large selection. Those are ready-built in various basings and all cover an octave or more in both input and LO ports. MiniCircuits has some nice tutorials on various aspects of Mixers. Price is reasonable for ready-built components.

>Am I looking at a disparate-enough set of frequency bands that I will wind up having to use multiple mixers, possibly one per 30 MHz band, or per octave?

I would say a single Mixer rated at LF to 1 GHz Input will do the job. Passive (diode) Mixers are as broadband as their coupling transformers and diodes allow, something now quite wide in frequency.

>It is trivially obvious to me that I'll need different antennas.

Not necessarily. A discone can do nearly a double decade in frequency range but at a slight loss (1 db or so) less than a dipole. For more gain and directionality, a log-periodic for VHF-UHF can be used for an easy decade bandwidth.

>Is it reasonable to look at using a comb generator which is driven by a 30 MHz reference, so that I just take the appropriate harmonic and amplify it to a power level that suits the mixer I have to use for that particular 30 MHz band? Would it be better, perhaps, to use DDS to generate the LO frequencies I want?

I would suggest a form of PLL, similar to a TV set-top box converter for down-converting old UHF channels to VHF. The LO needs to increment only in 30 (perhaps 15 for 'havsies') MHz increments. The direct LO frequency sample can be fed to a prescaler whose output (at a lower incremental frequency) can be applied to a digital counter whose output is phase-frequency compared to a stable reference frequency. The LO output to the Mixer needs only to be above the minimum specified level and below a maximum, also specified if a ready-built mixer is used. At below-1-GHz frequencies you can get away with attenuating the LO level with a carbon-comp T or H pad figured for the common 50 Ohm system. MiniCircuits also has VCOs of many kinds in stock and most of those cover a half to a full octave in electronic tuning range.

Layout of the UHF needs, realistically, only an approximation of the PCB trace width for "50 Ohm lines" on whatever substrate is used. For very short trace lengths the "mismatch" isn't noticeable and, for under-1.2 GHz frequencies, I've used #20 AWG wire without problem in performance! :-)

In thinking more about it, salvaging an old TV UHF channel converter might be a better idea, modifying its output to go DC to 30 MHz instead of stopping at Channel 2; a few for cable TV service go lower in output frequencies for built-in cable service functions, depends on the maker of the set-top and the cable service. All of those seem to operate at 2 MHz increments but use "in-house" PLL subassemblies, circuit diagrams printed on unobtainium. :-(

Prescalers - as stock items - are now scarce but exist mainly as "house number" special orders. A few dealers have them as old stock left-overs. Nearly all operate up to 900 MHz so their ability to prescale a UHF LO is no problem.

The SDR-IQ is a fairly precision instrument as a spectrum analyzer and it deserves to have a down-converter checked out with good test equipment. Any one of the (now ancient) HP-608 signal generator models can cover up to the 70cm band with known RF output levels. That's another thing to keep in mind.

I hope some of this long text is a help to you.

73, Len AF6AY

[age 74 and been in the electronics design biz some...:-)]

From -8800754750971818356
X-Google-Thread: fc2a5,a92194806bfc73e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feed.xsnews.nl!border-1.ams.xsnews.nl!68.142.88.75.MISMATCH!hwmnpeer01.ams!news.highwinds-media.com!kramikske.telenet-ops.be!nntp.telenet.be!kwabbernoot.telenet-ops.be!phobos.telenet-ops.be.POSTED!not-for-mail
From: "Philo" <philo@nospampse.be>
Newsgroups: rec.radio.amateur.homebrew
References: <evdgig$toq$1@puck.litech.org>
Subject: Re: Pointers to (or on) block downconverter construction?
Lines: 55
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <z6xSh.111596$O83.883861@phobos.telenet-ops.be>
Date: Mon, 09 Apr 2007 20:12:15 GMT
NNTP-Posting-Host: 81.164.212.36
X-Complaints-To: abuse@telenet.be
X-Trace: phobos.telenet-ops.be 1176149535 81.164.212.36 (Mon, 09 Apr 2007 22:12:15 MEST)
NNTP-Posting-Date: Mon, 09 Apr 2007 22:12:15 MEST
Organization: Telenet Internet
Xref: g2news1.google.com rec.radio.amateur.homebrew:12901

"Mike Andrews" <mikea@mikea.ath.cx> wrote in message

news:evdgig$toq$1@puck.litech.org...
> I've got, and love, an RFSpace Inc. SDR-IQ software-defined receiver.
> It covers 100 Hz to 30 MHz, and lets me eyeball any 190 KHz (or
> narrower) chunk all at once, which is rather particularly nice. I'd
> like to be able to use it on 30 to 60 MHz and higher, which means that
> I need a downconverter. It seems to me that a suitable downconverter
> would let me set a switch to choose which 30 MHz band got mixed down
> to the roughly 0-30 MHz baseband.
>
> I'd like to have this work up through the 70 cm. ham band for sure,
> and as much higher as I can get. I know that construction techniques
> change as one gets above HF, and change _radically_ at UHF and above.
> How hard is this going to be, overall?
>
> The general setup I envision is something rather like
>
```
>                               LO
>                              n*30MHz
> (n to                          |
> (n+1))                         |
> * 30 MHz    30 MHz wide        V        0 to 30 MHz
> input --> bandpass filter --> mixer --> output
>                                        to SDR-IQ
```
>
> Some questions for the (perhaps not older: I'm 60) wiser heads with
> more design-and-construction experience: is this at all a reasonable
> thing to do? Does anyone have any ideas on suitable mixers? Am I
> looking at a disparate-enough set of frequency bands that I will wind
> up having to use multiple mixers, possibly one per 30 MHz band, or
> per octave? It is trivially obvious to me that I'll need different
> antennas.
>
> Is it reasonable to look at using a comb generator which is driven by
> a 30 MHz reference, so that I just take the appropriate harmonic and
> amplify it to a power level that suits the mixer I have to use for
> that particular 30 MHz band?
>
> --
> Mike Andrews, W5EGO
> mikea@mikea.ath.cx
> Tired old sysadmin

I know it it's not a perfect solution, but this could be a good starter: find a selective Jerrold of OAK CATV converter. There must be thousands of them around for free. Try to improve the stability of the local oscillator; replace the jerky PLL oscillator with one or a few decent synthesizers, work on the input sensitivity, etc..

Have fun!

```
From 8400829588986412679
X-Google-Thread: fc2a5,eeeb2bfe075c5236
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
p77g2000hsh.googlegroups.com!not-for-mail
From: JIMMIEDEE123@YAHOO.COM
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UTC ls 55 transformers
Date: 9 Apr 2007 17:01:09 -0700
Organization: http://groups.google.com
Lines: 43
Message-ID: <1176163269.649364.184610@p77g2000hsh.googlegroups.com>
References: <46130e55$0$9974$4c368faf@roadrunner.com>
   <1175694572.855148.200780@e65g2000hsc.googlegroups.com>
   <46141a4a$0$27099$4c368faf@roadrunner.com>
   <p2WQh.6217$EJ6.1701@newsfe24.lga>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 10 Apr 2007 00:01:09 +0000 (UTC)
In-Reply-To: <p2WQh.6217$EJ6.1701@newsfe24.lga>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p77g2000hsh.googlegroups.com; posting-host=204.108.8.5;
   posting-account=zCf1Uw0AAAAC_RNkZf7dTivygQcRNODI
Xref: g2news1.google.com rec.radio.amateur.homebrew:12902

On Apr 4, 6:56 pm, "Uncle Peter" <radioconnect...@cox.net> wrote:
> "Jimmie D" <GFEN...@carolina.rr.com> wrote in message
>
> news:46141a4a$0$27099$4c368faf@roadrunner.com...
>
>
>
>
>
>
>
> > "Wes" <n...@yahoo.com> wrote in message
> >news:1175694572.855148.200780@e65g2000hsc.googlegroups.com...
> >> On Apr 3, 7:33 pm, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
> >>> I picked up a pair of UTC LS-55 transformers at a flea market a couple
> >>> of
> >>> weeks ago. Can some one give me the specs on these. I was hoping they
> >>> might
> >>> me modulation transformers.
>
> >>> Jimme
>
> >> k6mhe.com/n7ws/UTC_Page_45.pdf
>
> > Doesnt seem to be what I was hoping for but maybe I could hook the two
> > back to back and get the impedances I need.
> > Thanks
>
> > Jimmie
>
> that was the first idea that came to my mind. You certainly
> have a few options for impedance transformations!
>
> Pete- Hide quoted text -
>
> - Show quoted text -

I think I will start by converting the impedances to turns ratios,
Perhaps this will make figuring out how to connect the transformers
easier. Are each of the secondary windings designed to handle the full
power rating of the transformer or will I have to derate it if I use
only the two ohm winding?




From -2959444637276532705
X-Google-Thread: 1109af,8074f1db45ac1073,start
X-Google-Thread: 107ada,8074f1db45ac1073,start
X-Google-Thread: 107cee,8074f1db45ac1073,start
X-Google-Thread: f4e7d,8074f1db45ac1073,start
X-Google-Thread: 1130cb,8074f1db45ac1073,start
X-Google-Thread: fc2a5,8074f1db45ac1073,start
X-Google-Thread: fc8b1,8074f1db45ac1073,start
X-Google-Attributes:
gid1109af,gid107ada,gid107cee,gidf4e7d,gid1130cb,gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news1.google.com!
newsfeed2.dallas1.level3.net!news.level3.com!panix!bloom-beacon.mit.edu!senator-
bedfellow.mit.edu!dreaderd!not-for-mail
Newsgroups:
rec.radio.swap,rec.radio.amateur.misc,sci.electronics.misc,ne.forsale,ne.general,r
ec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: ** FLEA at MIT **     Sunday April 15th     Cambridge MA
Summary: Buy Sell SWAP Ham Radio  Electronics Computers 9AM - 2PM
Expires: 4/16/07
Followup-To: poster
Approved: rec-radio-info@stat.com
Distribution: na
Organization: Massachvsetts Institvte of Technology
Keywords: Hamfest Fleamarket SWAPFEST  Computers Ham Radio Electronics
From: w1gsl@mit.edu (Steven L. Finberg)
```

Date: 10 Apr 2007 00:50:52 GMT
Lines: 133
Message-ID: <461adf6c$0$490$b45e6eb0@senator-bedfellow.mit.edu>
NNTP-Posting-Host: HOME-ON-THE-DOME.MIT.EDU
X-Trace: 1176166252 senator-bedfellow.mit.edu 490 18.7.18.70
Xref: g2news1.google.com rec.radio.swap:15972 rec.radio.amateur.misc:35340 sci.electronics.misc:14919 ne.forsale:1824 ne.general:16096 rec.radio.amateur.homebrew:12903 rec.radio.amateur.boatanchors:11229

This comming Sunday...

+++ Now even more Buyers Parking !!!
Thanks to Shire we have use of their new parking lot across Albany St from the SWAPFEST !!!

!! ** More Buyers PARKING is available ** for details see
http://web.mit.edu/w1gsl/Public/flyer

*** !!!! In our Traditional GARAGE and the adjacent lot !!!! ****
so come rain or shine or super heat the Flea is on !!!

********* $1 buyers discount with hardcopy of this notice ********

COMPUTERS - ELECTRONICS - HAM RADIO - COMPUTERS - ELECTRONICS - HAM RADIO

FLEA all SUMMER at MIT
Sunday April 15th 2007
9AM-2PM

Come to the city for a great flea - plenty of free parking.

MIT's electronics and ham radio flea will take place on the third Sunday of each month this summer, April thru October.

There is tailgate space for over 600 sellers and free, off-street parking for >2000 cars!

Buyers admission is $5 (you get $1 off if you're lucky enough to have a copy of our ad) and sellers spaces are $20 for the first and $15 for each additional at the gate.

The flea will be held at the corner of Albany and Main streets in Cambridge; right in the Kendall Square area from 9AM to 2PM, with sellers set-up time starting at 7AM.

SEASON PASS + Advance Seller Discount

A sellers discount season pass is available which offers a 30% discount. By prepaying you get a discount and earlier admission. See the registration form.

*** Attention Sellers ***
Prepaid vendors.. Season Pass or monthly,
will be admitted FIRST.
Separate lines will form prior to gate opening
for prepaid and nonprepaid vendors

!! RAIN or SHINE !! Have no fear of rain, a covered
well illuminated tailgate area is available for all
sellers (6'8" clearance).

Talk-in: 145.23- (PL 88.5) W1BOS/R and
W1XM/R-449.725/444.725 (PL 114.8/2A).

Sponsors: MIT Electronics Research Society
MIT UHF Repeater Association (W1XM)
MIT Radio Society (W1MX)
Harvard Wireless Club (W1AF)

For more info / advanced reservations 617 253 3776

********** $1 buyers discount with hard copy of this notice ************

<<<<<<<<<<<<<<<<<<<<<<<< cut here >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Mail the coupon below by the 5th of the month to be a Prepaid Vendor.

FLEA at MIT 2007 Rates

SELLERS

To use your prepaid spaces the named vendor MUST be present.
Rates include one admission per space.

Advance $17 First space
$12 Additional Spaces
Must be received by the 5th of the month.

Gate Admission $20 First Space
$15 Additional Spaces
Admission is after the prepaid vendors

Early Bird Buyer -Admission after the prepaid vendor line is admitted. ~ 7:15AM
** You may not sell. **
$15 per person at the gate.

****************************** cut here *******************************

FLEA at MIT 2007 Advance Space Application

____April ____May ____June ____ July ____Aug ___Sept ____Oct

@ $17 for the first each month + $12 each additional

Name   ________________________   Call __________ $ Included______

Address ________________________   Phone __________   Make Check to
The MIT Radio Society
City ____________________ State _______ Zip _______   PO Box 397082
Cambridge MA 02139
E-mail ____

****
Steve Finberg   W1GSL   w1gsl@mit.edu
PO Box 82 MIT Br   Cambridge MA 02139-7082   617 258 3754
****

From 7491451728522695242
X-Google-Thread: fc2a5,6de84d50eff74ed9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.glorb.com!feed.news.qwest.net!mpls-nntp-01.inet.qwest.net!news.qwest.net!not-for-mail
Date: Wed, 11 Apr 2007 03:03:30 -0700
From: PhattyMo <PhattyMo@nospam.gmail>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: IR adapter hack
References: <59234$461a8606$d80c3c03$8222@NAXS.COM>
In-Reply-To: <59234$461a8606$d80c3c03$8222@NAXS.COM>
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Organization: Qwest Communications Corporation
NNTP-Posting-Host: c0acf7cd.news.qwest.net
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JdGTo3<4fknPZf>hTi]mQXjR>fhkeE=Z^BnHViOi2BH<en02eCePd8B2b;\o
X-Complaints-To: abuse@qwest.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:12904

Jim wrote:
> I would like some help in hacking an IR printer adapter made for the HP 350c
> printer. This is a tiny pc board with a minimum of components connected via
> 8 wires to a parallel printer connector. I would like to put this to use as
> a serial port to IRDA device if possible. Yes, I know there are probably
> simpler ways, but this is a very tiny board, and I'd like to learn from it
> anyway.
>
> This board is different from others I have torn into. It has an IRDA
> transmitter/receiver encoder/decoder similar to but a bit smaller than the
> HSDL7001 but only has the numbers R800 and 016A on the back. This is a
> through hole, 9 staggered pin device. This adapter was sold by HP so is
> this R800 an HP part? Wish I had a data sheet!
>
> In addition there is a small crystal with the frequency 3.68 mhz but no
> processor......but does have 3 transistors, 2 resistors, and 2 capacitors
> (all surface mount). I think this is the frequency specified for 16xclk.
>
> On the connector side, the only used pins are:
>
> 18 +5v
> 19 gnd
> 10 low-ack
> 1   low data strobe
> 13 high
> 12 high-paper end
> 19 gnd
>
> 19-31-36 (low) (gnd) are all conncted
> 11-16 connected (gnd)
>
> The presence of the crystal leads me to believe that the baud rate is taken
> care of already, on-board. So how do I go about finding where the rx and tx
> connections should be. Or is this even possible? The circuit is obviosly
> getting it's power (5v) from the printer.
>
> I have in mind to use this on my Etrex GPS to upload/download info via IR
> from my computer.
>
> Thanks
> Jim
>
>

>
>

Google for IRDA circuits/projects,etc.. there's alot of info out there.
I made one a few years ago,not hard at all.(all of about 3-4 components)

```
From 2896401362096552981
X-Google-Thread: fc2a5,2eb74dfd14b4d25c,start
X-Google-Thread: fc8b1,2eb74dfd14b4d25c,start
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!postnews.google.com!
b75g2000hsg.googlegroups.com!not-for-mail
From: "NS7F" <rjtucke@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Best ARRL handbook editions?
Date: 11 Apr 2007 13:37:47 -0700
Organization: http://groups.google.com
Lines: 14
Message-ID: <1176323867.233519.199530@b75g2000hsg.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 11 Apr 2007 20:37:47 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.3)
Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b75g2000hsg.googlegroups.com; posting-host=70.184.90.43;
   posting-account=Z00KWA0AAAAKEHY2UyS3wqEckPJYZh9S
Xref: g2news1.google.com rec.radio.amateur.homebrew:12905
rec.radio.amateur.boatanchors:11243
```

Hello all,
I have discovered how much fun tubes can be, and am in the process of
planning one or more transmitters to go along with my 2-tube
regenerative receiver. Now, I'm only 23 years old, so I'm in the
process of researching hollow state technology. Could you please put
together a short list of the "best" ARRL handbook editions? I have 99
and 05- I'm just looking for a few years to watch for on amazon, etc.
Of course, recommendations for other books would be appreciated, too,
but I'm on a tight budget...

Thank you very much in advance for your advice.

Ross, NS7F

```
From -8643909724360376924
```

X-Google-Thread: fc2a5,2eb74dfd14b4d25c
X-Google-Thread: fc8b1,2eb74dfd14b4d25c
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out04b.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!nx01.iad01.newshosting.com!newshosting.com!198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Best ARRL handbook editions?
Date: Wed, 11 Apr 2007 21:29:04 +0000 (UTC)
Organization: MGT Consulting
Lines: 32
Message-ID: <slrnf1qkoj.b4n.gsm@cable.mendelson.com>
References: <1176323867.233519.199530@b75g2000hsg.googlegroups.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-139-23-17.bb.netvision.net.il
X-Trace: marvin.misty.com 1176326944 22373 89.139.23.17 (11 Apr 2007 21:29:04 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Wed, 11 Apr 2007 21:29:04 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12906 rec.radio.amateur.boatanchors:11244

NS7F wrote:

> I have discovered how much fun tubes can be, and am in the process of
> planning one or more transmitters to go along with my 2-tube
> regenerative receiver. Now, I'm only 23 years old, so I'm in the
> process of researching hollow state technology. Could you please put
> together a short list of the "best" ARRL handbook editions? I have 99
> and 05- I'm just looking for a few years to watch for on amazon, etc.
> Of course, recommendations for other books would be appreciated, too,
> but I'm on a tight budget...

IMHO what you should do is go to a library and find where the major "houscleaning" was done and then get the previous edition. For example, I have a 1995 (blue) edition, and it was much better IMHO than the 1996 (red) which I also have.

In any case, collecting a set of them may not be of much use to you.

Tubes have not changed much in a long time, so getting an early edittion with lots of tube data and then copies of articles you want may be a much better use of money and space.

73.

Geoff.

```
--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com  N3OWJ/4X1GM
IL Voice: (07)-7424-1667  Fax ONLY: 972-2-648-1443 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/
```

```
From 4060165940276436625
X-Google-Thread: fc2a5,2eb74dfd14b4d25c
X-Google-Thread: fc8b1,2eb74dfd14b4d25c
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 11 Apr 2007 17:37:51 -0500
Date: Wed, 11 Apr 2007 18:37:53 -0400
From: Dave <W1MCE@comcast.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.4) Gecko/20030624
Netscape/7.1 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Best ARRL handbook editions?
References: <1176323867.233519.199530@b75g2000hsg.googlegroups.com>
In-Reply-To: <1176323867.233519.199530@b75g2000hsg.googlegroups.com>
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Message-ID: <nLOdnWd7c_ii_oDbnZ2dnUVZ_jKdnZ2d@comcast.com>
Lines: 28
NNTP-Posting-Host: 24.34.65.49
X-Trace: sv3-
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9zESEnEYj/2XEJK0NeuMV8KNEKmLKjcfenqAT9j6vqaczL2cqCMUJgNoudOOuDazzKZsi5cEzXWz!
OnkvroUGknXgHYaODGW4KJvoc2I=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12907
rec.radio.amateur.boatanchors:11246
```

I have the 1964 and 1966 versions and there is VERY LITTLE difference between them.

They have designs for 4 simple transmitters with power that range from 10 watts to 100 watts. Also, they have a fairly good 'teaching' on transmitter and power amplifier design techniques [for tubes of course!].

I agree with the post that responded that they are quite similar within a basic technology. So, if vacuum tube simple transmitters are your passion, [desire, wants, likes, etc.] any of the ARRL handbooks from the late 50s to mid 60s should meet your needs.

NS7F wrote:

> Hello all,
> I have discovered how much fun tubes can be, and am in the process of
> planning one or more transmitters to go along with my 2-tube
> regenerative receiver. Now, I'm only 23 years old, so I'm in the
> process of researching hollow state technology. Could you please put
> together a short list of the "best" ARRL handbook editions? I have 99
> and 05- I'm just looking for a few years to watch for on amazon, etc.
> Of course, recommendations for other books would be appreciated, too,
> but I'm on a tight budget...
>
> Thank you very much in advance for your advice.
>
> Ross, NS7F
>

From 8260636639565072201
X-Google-Thread: fc2a5,2eb74dfd14b4d25c
X-Google-Thread: fc8b1,2eb74dfd14b4d25c
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Path: g2news1.google.com!news2.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe14.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
References: <1176323867.233519.199530@b75g2000hsg.googlegroups.com>
Subject: Re: Best ARRL handbook editions?
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <BEdTh.6862$Pi4.1445@newsfe14.lga>
Date: Wed, 11 Apr 2007 18:51:40 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe14.lga 1176331937 68.0.230.122 (Wed, 11 Apr 2007 15:52:17 MST)
NNTP-Posting-Date: Wed, 11 Apr 2007 15:52:17 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:12908
rec.radio.amateur.boatanchors:11247

"NS7F" <rjtucke@gmail.com> wrote in message
news:1176323867.233519.199530@b75g2000hsg.googlegroups.com...
> Hello all,

> I have discovered how much fun tubes can be, and am in the process of
> planning one or more transmitters to go along with my 2-tube
> regenerative receiver > Ross, NS7F
>

Forgo the handbooks and look for QST magazines from the
40s thru the early 60s. Many larger libraries have the bound
editions... At worst, look for some used QST on CD editions
from that era.

Pete

From -1807094486896852551
X-Google-Thread: fc2a5,2eb74dfd14b4d25c
X-Google-Thread: fc8b1,2eb74dfd14b4d25c
X-Google-Attributes: gidfc2a5,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!w1g2000hsg.googlegroups.com!not-for-mail
From: N2EY@AOL.COM
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Best ARRL handbook editions?
Date: 11 Apr 2007 16:43:06 -0700
Organization: http://groups.google.com
Lines: 78
Message-ID: <1176334986.494090.14640@w1g2000hsg.googlegroups.com>
References: <1176323867.233519.199530@b75g2000hsg.googlegroups.com>
NNTP-Posting-Host: 205.188.116.70
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 11 Apr 2007 23:43:07 +0000 (UTC)
In-Reply-To: <1176323867.233519.199530@b75g2000hsg.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows 98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 Turboweb [dtc-tb064 8.4.1], HTTP/1.1 cache-dtc-ab06.proxy.aol.com[CDBC7446] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: w1g2000hsg.googlegroups.com; posting-host=205.188.116.70;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news1.google.com rec.radio.amateur.homebrew:12909
rec.radio.amateur.boatanchors:11249

On Apr 11, 4:37 pm, "NS7F" <rjtu...@gmail.com> wrote:

> I have discovered how much fun tubes can be, and am in the process of
> planning one or more transmitters to go along with my 2-tube
> regenerative receiver. Now, I'm only 23 years old, so I'm in the

> process of researching hollow state technology. Could you please put
> together a short list of the "best" ARRL handbook editions? I have 99
> and 05- I'm just looking for a few years to watch for on amazon, etc.
> Of course, recommendations for other books would be appreciated, too,
> but I'm on a tight budget...

Ross,

If you're interested in hollow-state technology, there are lots of *free* resources on the 'net:

First up is Pete Millett's excellent book site:

http://www.pmillett.com/tecnical_books_online.htm

There are many excellent reference books online there, free for the download, including ARRL Handbooks from 1936 and 1941 (IIRC). The files are often large but if you have DSL or better they only take a few minutes. With dialup they become a late-night hit-the-download-button-and-go-to-bed thing.

He also has tube data online:

http://www.pmillett.com/hb-3_tube_manual.htm

The Glowbugs website has lots of downloadable info:

http://www.mines.uidaho.edu/~glowbugs/index.html

including some good manuals and articles on WW2 military surplus:

http://www.mines.uidaho.edu/~glowbugs/Military__and__Surplus.html

http://www.mines.uidaho.edu/~glowbugs/PDF%20files/

On the Glowbugs website are instructions on how to sign up for the Glowbugs email reflector. Lots of good folks trading info on their projects.

"Bunker of Doom" site with lots of stuff:

http://www.bunkerofdoom.com/

Transformer catalogs and other data:

http://www.bunkerofdoom.com/xfm/index.html

Another good site:

http://www.antiqueradioarchives.com/archives_index.htm

If you want the actual books, I would recommend

ARRL Handbooks from about 1954 to 1965, and RSGB
Handbooks. IMHO the RSGB Handbooks go into more
depth on technical subjects, and have better construction
articles, but the use of European tubes and other
unobtanium parts makes them difficult to duplicate.

Also be on the lookout for the ARRL publication "Understanding Amateur
Radio" (1st edition) ,
which has some good lowcost projects and well
written explanations.

Sign up for the Glowbugs reflector now!

--

73 de Jim, N2EY

google my call for a shack picture

```
From 7057099936532640387
X-Google-Thread: fc2a5,2eb74dfd14b4d25c
X-Google-Thread: fc8b1,2eb74dfd14b4d25c
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o5g2000hsb.googlegroups.com!not-for-
mail
From: "Ed Engelken" <EdEngel@gvtc.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors
Subject: Re: Best ARRL handbook editions?
Date: 11 Apr 2007 17:27:28 -0700
Organization: http://groups.google.com
Lines: 7
Message-ID: <1176337647.988208.39860@o5g2000hsb.googlegroups.com>
References: <1176323867.233519.199530@b75g2000hsg.googlegroups.com>
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In-Reply-To: <slrnf1qkoj.b4n.gsm@cable.mendelson.com>
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Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o5g2000hsb.googlegroups.com; posting-host=208.117.84.146;
   posting-account=-7YihAwAAADzzD534mqCm3lj0jEchOqU
Xref: g2news1.google.com rec.radio.amateur.homebrew:12910
rec.radio.amateur.boatanchors:11250
```

If you are interested in tube gear then the ARRL handbooks from the early 1950s would be good. By the 1970s, the trend was toward solid-state gear. Of course, the 1940s handbooks are good too, but I like the ones from the 1950s best.

--Ed

```
From 5936700953988054785
X-Google-Thread: fc2a5,7a7ec293678423ac
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newshub.stanford.edu!news.kjsl.com!
ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VCO
Date: 29 Mar 2007 15:45:39 GMT
Organization: The National Capital FreeNet
Lines: 78
Message-ID: <eugmv3$fvg$1@theodyn.ncf.ca>
References: <1175150734.923132.145930@y80g2000hsf.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
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NNTP-Posting-Date: 29 Mar 2007 15:45:39 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:12810
```

"gbowne1" (gbowne1@yahoo.com) writes:

> Well now, I'm onto bigger and better things.
>
> I was doing a bit of reading lately and came across some interesting topic one being VCO. The VCO I saw used a Optical Shaft Encoder (OSE). The setup used was rather odd looking to me and didn't look that mechanically stable.
>
> Could someone explain VCO to me? And, also what type of VCO would be the best in a transceiver considering the technology of the past 10 years? Are there digital VCO's?
>
> Greg
>

A VCO is a Voltage Controlled Oscillator. It's not a different type of oscillator, it's merely some existing type of oscillator with some element changed so a variable voltage will vary its frequency.

What is controlled by the varying voltage depends on the design, but for pretty much all radio type VCOs, a voltage variable capacitor replaces the mechanical variable capacitor.

At it's simplest that means you have an oscillator just like you had before, but you tune it with a varying voltage. So you'd have a potentiometer on the front panel that would supply a varying voltage to that VCO. This oscillator would be no different from the same oscillator with a variable capacitor, give or take how well you regulate the control voltage.

That in itself doesn't do much, other than maybe making the oscillator smaller (the voltage variable capacitor is usually a small semiconductor which obviously takes far less space than a variable capacitor), and in some cases it can be easier to get the parts than find a variable capacitor.

Where they really shine is as part of a PLL, Phase Locked Loop, that locks the VCO to some standard frequency. There, a phase comparator compares the VCO with the standard frequency, and the output of the phase detector is a varying DC voltage that controls the VCO. If the frequencies of the two oscillators don't match, then the control voltage out of the phase detector adjusts the VCO to the exact frequency. By adding circuitry, one can synthesize every single needed frequency, which is where a PLL really becomes useful.

You aren't seeing VCO "controlled by an encoder". The optical encoder is mechanical, and cannot directly control the VCO. (The optical encoder just sends out a stream of pulses, the more pulses the more you turn the knob. And there is a secondary output, also a stream of pulses. The difference is, one of those outputs goes high before the other; which one is dependent on which way you turn the knob.) You have to turn the pulses from the optical encoder into something else. And in this case, it's being used to control something digital, what would depend on the actual design in the book. One scheme would be it controls a series of up/down counters, and the outputs of them control a variable divider chain in the PLL, between the VCO and the phase detector. Other schemes might have the optical encoder feeding a CPU of some sort, and the CPU does some of the work before controlling something else (such as a variable divider chain, or directly control some other type of synthesizer).

It doesn't have to be mechanically stable, because the encoder is not directly controlling the VCO. It merely supplies information, which way you turned the knob and how far.

One thing to be considering is that the book is intended to be a construction project. It takes the whole book to describe the transceiver, and it's not really about teaching a more general theory. Once you start wanting to change things, you'd be better off starting with some other book, that is less specific, and even shows simpler circuits. Because then you get the background information, and it's far easier to start with a basic SSB transceiver (basic in the sense that it's single band and uses a mechanically tuned variable oscillator), get that going, and then add the "bells and whistles" (done right, you can then replace the VFO with some synthesizer).

Michael VE2BVW

From -7211230553651334560
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 29 Mar 2007 12:52:59 -0500
Date: Thu, 29 Mar 2007 13:52:01 -0400
From: NoMoreSpam <Disgustedham@qrparci.org>
User-Agent: Thunderbird 1.5.0.5 (X11/20060719)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: FAQ - - "What is Ham radio"?
References: <eug8lj$3ui$1@news.datemas.de> <JFo6x3.KMJ@news.boeing.com>
In-Reply-To: <JFo6x3.KMJ@news.boeing.com>
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LAouResMxk3PoGsZ83F/ZV/Qaydn
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.misc:35085
rec.radio.amateur.homebrew:12811

R. Scott wrote:
> "G.A.Evans G4SDW" <me@privacy.net> wrote in message
> news:eug8lj$3ui$1@news.datemas.de...
>
>
> I remember when I joined Amateur Radio 30 odd years ago, all were welcomed.
> Now we have a bunch
> of grumpy old snobs who want things to be as of Old.
>
> Scotty W7PSK
>
>

Now if that isn't a contradiction! I think the point is all were welcomed,

```
because they were QUALIFIED. Now we have no-coders who haven't the vaguest idea
of ohm's law, claiming the privileges that were once earned by study and effort.
Lazy slobs like that were not, and never should be, "welcomed."


From -3447756692128247983
X-Google-Thread: f64c6,ed8bcc4052fa7a2c
X-Google-Thread: 107ada,ed8bcc4052fa7a2c
X-Google-Thread: fc2a5,ed8bcc4052fa7a2c
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.glorb.com!newshub.sdsu.edu!
nntpserver.com!zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: Mark@kb9rqz.org
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: again with this spam
Date: Thu, 29 Mar 2007 09:59:21 -0400
Message-ID: <cghn03t84he1a251ou8lnmuesv72vvnd5l@4ax.com>
References: <eug8lj$3ui$1@news.datemas.de>
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X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com uk.radio.amateur:106589 rec.radio.amateur.misc:35087
rec.radio.amateur.homebrew:12812

On Thu, 29 Mar 2007 12:41:41 +0100, "G.A.Evans G4SDW" <me@privacy.net>
wrote:

>A necessary preface.....
>
>(It is becoming increasingly difficult to fly the flag for
>decency and for civilised behaviour in Radio Hammery.
>However, there still exists the fundamental basis on
>which Ham Radio is based, and that will never die.

if it will never die it is no danger of dying and you shit it just
spam




http://kb9rqz.blogspot.com
stealing data from my wifes accounts is unaccaptable

demdning I do what you conceed I can not or suffer
 further attack is unacepteable
Dloyd Lavies renagade cyber theif and terroist

--
```

Posted via a free Usenet account from http://www.teranews.com

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From 6603697846975913979
X-Google-Thread: fc2a5,ad9612b251472384,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: The Harry Thomas Show - week in review 03/28/07
From: Harry Thomas <harrythomas@nospam.netzero.net>
Organization: pfabf
Message-ID: <Xns990276B3EEBF0harrythomasnospamnet@66.150.105.47>
User-Agent: Xnews/5.04.25
Date: 29 Mar 2007 14:47:08 GMT
Lines: 52
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X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12813
```

The Harry Thomas Show - week in review 03/28/07
http://harrythomas.mysite.com/
Listen to the show right from the website.

This weeks topics include - Anti NAU legislation , Fox News unfair and unbalanced, 911, Global Warming, Gonzalas Pedo Scandal, Ron Paul, Memory Loss Drugs, and much more

The Return of The Harry Thomas Show

The "garage talk show" that is reaching out to Worldwide Usenet

after hiatus he is back to inform the people of deception and corruption.

Hosted by Harry Thomas;

The Harry Thomas Show - week in review is a 4 segment show. We have had

tremendous response and we want to thank our Listeners.

Keep them e-mails coming and thanks for your support !

harrythomas@netzero.net

The Show is recorded on Wednesdays
Posted to usenet on Wednesday Nights   to;
alt.binaries.great , - alt.binaries.radio.misc , -
alt.binaries.multimedia.documentary -alt.binaries.sounds.radio.misc, -
alt.binaries.sounds.radio, - alt.binaries.sounds.wma, - and
alt.binaries.multimedia

The NFO (information) file posted both days to ;

alt.pirate.radio, - alt.internet.talk.radio, - alt.talk.radio, -
rec.radio.amateur.homebrew, - rec.radio.misc, -
alt.radio.international, - rec.radio.amateur, - alt.radio.talk, -
alt.radio.internet, - and alt.internet.talk-radio

Reposted to usenet on Saturdays to;
alt.binaries.sounds.radio.repost and alt.binaries.multimedia.repost
These are binary newsgroups.

check website for more information
http://harrythomas.mysite.com/

Copies of this show can be e-mailed upon request inquire at;
harrythomas@netzero.net

--
Posted via a free Usenet account from http://www.teranews.com

```
From -3861772614128241214
X-Google-Thread: f64c6,ed8bcc4052fa7a2c
X-Google-Thread: 107ada,ed8bcc4052fa7a2c
X-Google-Thread: fc2a5,ed8bcc4052fa7a2c
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p15g2000hsd.googlegroups.com!not-for-
mail
From: "Andy the Perv Timberlake" <andy_theperv_timberlake@yahoo.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: again with this spam from Marqueer
Date: 29 Mar 2007 11:17:42 -0700
Organization: http://groups.google.com
Lines: 7
Message-ID: <1175192261.988723.279030@p15g2000hsd.googlegroups.com>
References: <eug8lj$3ui$1@news.datemas.de>
   <cghn03t84he1a251ou8lnmuesv72vvnd5l@4ax.com>
NNTP-Posting-Host: 4.185.219.2
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1175192263 6957 127.0.0.1 (29 Mar 2007 18:17:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 29 Mar 2007 18:17:43 +0000 (UTC)
In-Reply-To: <cghn03t84he1a251ou8lnmuesv72vvnd5l@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p15g2000hsd.googlegroups.com; posting-host=4.185.219.2;
   posting-account=sVik3A0AAADzyKivjrehSo4K7uVsLz2Y
Xref: g2news1.google.com uk.radio.amateur:106590 rec.radio.amateur.misc:35090
rec.radio.amateur.homebrew:12814
```

On Mar 29, 9:59 am, M...@kb9rqz.org wrote:

>
> if it will never die it is no danger of dying and you shit it just
> spam

You should know, you are the worst spammer on here.

```
From -7273131176766034112
X-Google-Thread: f64c6,ed8bcc4052fa7a2c
X-Google-Thread: 107ada,ed8bcc4052fa7a2c
X-Google-Thread: fc2a5,ed8bcc4052fa7a2c
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!news.glorb.com!feed.xsnews.nl!
border-1.ams.xsnews.nl!feeder1.cambrium.nl!feed.tweaknews.nl!news2.euro.net!
postnews2.euro.net!news.wanadoo.nl!not-for-mail
Date: Thu, 29 Mar 2007 21:10:16 +0200
From: know code <know_code@wanadoo.nl>
Reply-To:  "know code"@invalid_address.com
User-Agent: Thunderbird 1.5.0.10 (X11/20070221)
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: again with this spam from Marqueer
References: <eug8lj$3ui$1@news.datemas.de>
<cghn03t84he1a251ou8lnmuesv72vvnd5l@4ax.com>
<1175192261.988723.279030@p15g2000hsd.googlegroups.com>
In-Reply-To: <1175192261.988723.279030@p15g2000hsd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: quoted-printable
Lines: 24
Message-ID: <460c0f18$0$23873$dbd4f001@news.wanadoo.nl>
Organization: Wanadoo
NNTP-Posting-Date: 29 Mar 2007 19:10:16 GMT
NNTP-Posting-Host: s5591cd23.adsl.wanadoo.nl
X-Trace: 1175195416 dr4.euro.net 23873 85.145.205.35:3459
X-Complaints-To: abuse@wanadoo.nl
Xref: g2news1.google.com uk.radio.amateur:106600 rec.radio.amateur.misc:35101
rec.radio.amateur.homebrew:12815
```

Andy the Perv Timberlake wrote:

> On Mar 29, 9:59 am, M...@kb9rqz.org wrote:
>> if it will never die it is no danger of dying and you shit it just
>> spam
>=20

```
> You should know, you are the worst spammer on here.

Is Mark still trying to achieve the level of first grade English?

Thankfully I rarely ever see his cryptic posts these days unless someone =

quotes them (he's the *only* 'thing' in my killfile!).  And no doubt=20
he'll respond to this and I'll not see it either :)



--=20
ARRL membership =3D $39 (~=A320)
RSGB membership =3D =A344

Don't let them rip you off any more.
Do the right thing, resign from the RSGB today.

The RSGB said Radio Amateurs were a threat to national security!
Is this the type of organisation you want to represent you?



From 478191390205703319
X-Google-Thread: f64c6,ed8bcc4052fa7a2c
X-Google-Thread: 107ada,ed8bcc4052fa7a2c
X-Google-Thread: fc2a5,ed8bcc4052fa7a2c
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.newsland.it!nnrp-
beta.newsland.it!not-for-mail
From: "-.-. --.-" <newstst@nntp.org>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: FAQ - - "What is Ham radio"?
Date: Thu, 29 Mar 2007 23:20:06 +0200
Organization: http://www.newsland.it/nnrp-beta
Lines: 11
Message-ID: <euhai4$l83$1@nnrp-beta.newsland.it>
References: <eug8lj$3ui$1@news.datemas.de>
NNTP-Posting-Host: 217.26.81.110
X-Trace: snake.newsland.it 1175203204 21763 217.26.81.110 (29 Mar 2007 21:20:04
GMT)
X-Complaints-To: abuse@newsland.it
NNTP-Posting-Date: Thu, 29 Mar 2007 21:20:04 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:106607 rec.radio.amateur.misc:35102
rec.radio.amateur.homebrew:12816


"G.A.Evans G4SDW" <me@privacy.net> ha scritto nel messaggio
```

```
news:eug8lj$3ui$1@news.datemas.de...

> So,.....What is Ham Radio?

The Radio Amateur is the oldest hacker of the history.

-.-. --.- from JN61, Italy




From 658749993390955311
X-Google-Thread: fc2a5,7a7ec293678423ac
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!b75g2000hsg.googlegroups.com!not-for-
mail
From: "AF6AY" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VCO
Date: 29 Mar 2007 17:45:03 -0700
Organization: http://groups.google.com
Lines: 145
Message-ID: <1175215503.754700.119330@b75g2000hsg.googlegroups.com>
References: <1175150734.923132.145930@y80g2000hsf.googlegroups.com>
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Mime-Version: 1.0
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 30 Mar 2007 00:45:05 +0000 (UTC)
In-Reply-To: <1175150734.923132.145930@y80g2000hsf.googlegroups.com>
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-td04.proxy.aol.com[CFC87191] (Prism/1.1.9), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: b75g2000hsg.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com rec.radio.amateur.homebrew:12817

From: "gbowne1" on Wed, Mar 28 2007 11:45 pm

>Well now, I'm onto bigger and better things.
>
>I was doing a bit of reading lately and came across some interesting
>topic one being VCO.  The VCO I saw used a Optical Shaft Encoder
>(OSE).  The setup used was rather odd looking to me and didn't look
>that mechanically stable.
>
>Could someone explain VCO to me?
```

"VCO" is an acronym for Voltage Controlled Oscillator.

The mechanism for tuning is that the frequency-determining resonant circuit uses (usually) a voltage-controlled variable capacitor to adjust the oscillatory frequency. A voltage- or current-controlled variable inductor my be used to do the same thing. "VCO" has become a rather generic term applied to any variable frequency oscillator controlled by a voltage or current. A few mix that up with "VFO" or Variable Frequency Oscillator, an even more generic term for a (usually) manually-controlled oscillator.

Typically, the voltage-controlled variable capacitor is a reverse-biased diode in which the diode junction capacitance varies dependent on the reverse-bias voltage. The more rare variable inductor type of VCO changes its inductance dependent on the amount of DC current changing its partial magnetic field saturation characteristics.

"Mechanical stability" of a VCO has no direct parallel to the old-time mechanically-variable manual-tuning variable oscillator. The fixed components of a VCO require stable construction, yes, but the frequency stability depends on the CONTROL VOLTAGE (or current) REGULATION AND STABILITY.

A VCO as a subsystem on an IC may not require any external capacitance or inductance; some, including component assemblies in a small enclosure include all of that. An older form of VCO is the free-running (astable) multivibrator circuit where the square-wave frequency is varied by bias voltage on the base-gate-grid of the multivibrator. The demand for digital-IC-based VCO multivibrators has been slight in the last two decades so most of those have been withdrawn from production.

"OSE" is not a common acronym for a rotary incremental digital shaft encoder. [Ocean State Electronics in Rhode Island uses "OSE" as a logo] A shaft encoder REQUIRES an interface circuit to convert the directional rotation digital signals to something that can CONTROL a VCO or some other circuit producing a controlled, variable-frequency output. Call it "shaft encoder" for short.

>And, also what type of VCO would be
>the best in a transceiver considering the technology of the past 10
>years? Are there digital VCO's?

Greg, in all fairness to most of the readers of Homebrew, you are asking questions which are too general, too basic, and require book-length replies which should have lots of illustrations to fully explain details. I would suggest you FIRST engage in some self-study on specific topics to round-out your own knowledge on circuit basics. I doubt that most of us want to "explain how to solder" for example since that is something that can be self-taught on the bench.

Today's transceivers, receivers, transmitters use variations of the "DDS" or Direct Digital Synthesizer for their main tuning circuit sub-system. The DDS is a later advancement on the PLL or Phase Locked Loop, an incremental-step frequency synthesizer. A DDS (almost always a SOC or System On a Chip) can produce a much smaller incremental step of frequency. Both the PLL and DDS use a single quartz crystal oscillator as the frequency reference; all output frequency steps of a PLL or DDS are of quartz crystal stability. Most manually-tuned PLLs or DDSs are set/adjusted by a form of rotary shaft encoder supplying (through a rotation-sensing digital interface sub-circuit) the "up" and "down" incremental frequency step control signals. Frequency display in today's radios is obtained indirectly from the DDS IC, converted from the step control sub-circuit output to the DDS output frequency plus/minus whatever the transceiver needs to make the display equivalent to the "air frequency" at the antenna.

A DDS is about as close to a "digital VCO" as today's technology gets...but it CANNOT be explained easily without lots of text, illustrations, diagrams, knowing some basics about "digital accumulators" or "analog-digital conversion." A DDS is RELATED TO, but not quite the same as a PLL.

A PLL uses a voltage-controlled oscillator as its main output. That output frequency is fed to a variable digital divider that produces an output that is an integral-division of the frequency of the VCO. That divider output is compared, in a phase-frequency detector (digital) to a fixed, stable reference frequency. That comparison output is filtered to produce an up/down control voltage for the VCO. In this frequency-control loop the VCO is maintained on-frequency to the reference frequency times the number of divisions in the digital divider. Changing the divider increment changes the VCO output frequency. The digital divider increments may be fixed by switches or it may come from another digital sub-circuit that is directly controlled by a rotary shaft encoder for manual adjustment.

The above is a rather basic description of a standard PLL. DDSs have various forms but their control-comparison to a single reference frequency is CONSIDERABLY different from a PLL. A DDS is enormously useful in a modern transceiver, especially in SSB tuning. My new Icom 746Pro, like many modern transceivers, can tune in 1 Hertz steps making SSB reception a snap for clarity...plus having more functions to allow easy digital control of modes like RTTY plus a direct internal interface to its digital signal processing. It uses a DDS as the basic frequency control. My older Icom

R-70 receiver used a PLL, actually three PLL sub-systems, to achieve 10 Hertz step tuning, quite good for SSB but not as precise as modern versions. The even older Heath SB-300 family of transceivers used indiidual-band quartz crystal oscillators and mixing with a manually-tuned analog VFO (excellent stability) in a "Collins Radio" architecture.

Now, in all seriousness, if you want to experience learning about transceiver frequency control systems, I'd suggest you concentrate on the old, conventional L-C non-digital all-analog methods. It doesn't have all the high-tech buzzwords attached, but they DID work quite well when attention was paid to certain critical factors in their design/assembly. Basic theory (not just assembling someone else's design) of those will apply to more sophisticated circuit methods. In progression from L-C analog methods to PLLs, one gets to know digital circuitry and how those behave. In progression from PLL to DDS one can get into spectral output and theory of modulation (in general) along with sampling theory and that old devil, "aliasing."

If you start in on self-learning, there is an enormity of material available to you in printed and electronic form. I'd say most of us in RRAH have been there and done that in various areas and ask/discuss more definitive details and comparisons.

73, Len AF6AY

```
From 5478389895011075563
X-Google-Thread: f64c6,ed8bcc4052fa7a2c
X-Google-Thread: 107ada,ed8bcc4052fa7a2c
X-Google-Thread: fc2a5,ed8bcc4052fa7a2c
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!proxad.net!213.200.89.82.MISMATCH!
tiscali!newsfeed1.ip.tiscali.net!newsfeed00.sul.t-online.de!t-online.de!
newsfeed.freenet.de!newsfeed0.kamp.net!newsfeed.kamp.net!news.motzarella.org!
newsfeed.datemas.de!news.datemas.de!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: FAQ - - "What is Ham radio"?
Date: Fri, 30 Mar 2007 08:19:28 +0100
Organization: Datemas.de http://www.datemas.de
Lines: 11
Message-ID: <euidlv$i6f$1@news.datemas.de>
References: <eug8lj$3ui$1@news.datemas.de> <euhai4$l83$1@nnrp-beta.newsland.it>
X-Trace: news.datemas.de UTs4g8+gYxeZ38BazzTu9gfYZdP5A6fz0s4OdZ/
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X-Complaints-To: abuse@datemas.de
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NNTP-Posting-Date: Fri, 30 Mar 2007 07:19:27 +0000 (UTC)
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X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:106626 rec.radio.amateur.misc:35110 rec.radio.amateur.homebrew:12818

No.

That honour belongs to Tony B. Liar

"-.-. --.-" <newstst@nntp.org> wrote in message news:euhai4$l83$1@nnrp-beta.newsland.it...
>
> The Radio Amateur is the oldest hacker of the history.
>

From -6431605825716468670
X-Google-Thread: fc2a5,7a7ec293678423ac
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p77g2000hsh.googlegroups.com!not-for-mail
From: "gbowne1" <gbowne1@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VCO
Date: 30 Mar 2007 17:47:01 -0700
Organization: http://groups.google.com
Lines: 21
Message-ID: <1175302021.621685.199100@p77g2000hsh.googlegroups.com>
References: <1175150734.923132.145930@y80g2000hsf.googlegroups.com>
   <1175215503.754700.119330@b75g2000hsg.googlegroups.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1175302023 6315 127.0.0.1 (31 Mar 2007 00:47:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 31 Mar 2007 00:47:03 +0000 (UTC)
In-Reply-To: <1175215503.754700.119330@b75g2000hsg.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p77g2000hsh.googlegroups.com; posting-host=64.40.47.187;
   posting-account=8BAS0Q0AAAAnJPh6jhjhjuvPq1nRIH_s
Xref: g2news1.google.com rec.radio.amateur.homebrew:12819

Quote: "VCO" is an acronym for Voltage Controlled Oscillator.

Well, yeah I gathered that, after more reading. I see that people
have used them in music synthesizer modules.

I'm sorry for being a bit elementary and maybe long winded here, I'm
still trying to learn as much as I can while I am doing and reading,
etc.

The VCO in the transceiver project in the book used some sort of motor
control and shaft encoding.

I did a google type search for HF DDS Generator using WebFerret. Came
up with over 175 results. Seems people are using 16F chips and AD98xx
chips.

Well, anyhow thanks for all your replies.

Greg
Seattle, WA

From -2666086828984804075
X-Google-Thread: fc2a5,7a7ec293678423ac
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!n76g2000hsh.googlegroups.com!not-for-
mail
From: "AF6AY" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VCO
Date: 31 Mar 2007 11:33:24 -0700
Organization: http://groups.google.com
Lines: 56
Message-ID: <1175366004.943986.274030@n76g2000hsh.googlegroups.com>
References: <1175150734.923132.145930@y80g2000hsf.googlegroups.com>
   <1175215503.754700.119330@b75g2000hsg.googlegroups.com>
   <1175302021.621685.199100@p77g2000hsh.googlegroups.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1175366006 26433 127.0.0.1 (31 Mar 2007 18:33:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 31 Mar 2007 18:33:26 +0000 (UTC)
In-Reply-To: <1175302021.621685.199100@p77g2000hsh.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-
ntc-te06.proxy.aol.com[CFC8721E] (Prism/1.1.9), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com

Injection-Info: n76g2000hsh.googlegroups.com; posting-host=207.200.116.11;
posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com rec.radio.amateur.homebrew:12820

On Mar 30, 4:47=EF=BF=BDpm, "gbowne1" <gbow...@yahoo.com> wrote:
> Quote: "VCO" is an acronym for Voltage Controlled Oscillator.
>
> Well, yeah I gathered that, after more reading. =A0I see that people
> have used them in music synthesizer modules.
>
> I'm sorry for being a bit elementary and maybe long winded here, I'm
> still trying to learn as much as I can while I am doing and reading,
> etc.

Keep that up, by all means. Amateur radio is about radio-electronics technology applied to communications.

> The VCO in the transceiver project in the book used some sort of motor
> control and shaft encoding.

That's the common method of manual control now...but in-between the rotary shaft encoder (attached to the manual knob) and the VCO itself is a large collection of digital circuits. Be prepared to learn more about digital circuits, gates, flip-flops, etc. Not difficult, just strange if your background is only analog circuits.

> I did a google type search for HF DDS Generator using WebFerret. =A0Came
> up with over 175 results. =A0Seems people are using 16F chips and AD98xx
> chips.

Analog Devices is the most-often used supplier of the basic DDS IC. Microcircuits' PIC series (the '16F' family) of microcontrollers is used to do the "translation" between manual frequency data input and the data needed to set the DDS to the correct frequency. Now that translation IS more difficult for many, experienced in electronics or not.

If you are intending to go into frequency synthesizers for your own projects, I'd suggest you concentrate on PLLs first. Getting to know those and WHY they work will lead into the various DDS methods of frequency generation. The general digital circuits of both PLLs and DDSs are related.

> Well, anyhow thanks for all your replies.
>
> Greg
> Seattle, WA

I try to give "Sound" advice...my wife and I have a house in Kitsap County west of Tacoma, SE of Bremerton. :-)

[as in "Puget Sound" folks...bad pun but the Sound is
very very long...and lovely territory]

73, Len AF6AY

From 1807299360732814747
X-Google-Thread: fc2a5,d9d67f7bded0f58c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.wavecable.com!news.wavecable.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 31 Mar 2007 13:58:23 -0500
From: "DaveS" <dsdt@wavecable.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1162817107.995131.309630@f16g2000cwb.googlegroups.com>
Subject: Re: CW copying Improvement
Date: Sat, 31 Mar 2007 11:56:54 -0700
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <I_idnes_5ofSMpPbnZ2dnUVZ_vOlnZ2d@wavecable.com>
Lines: 58
NNTP-Posting-Host: 24.113.197.43
X-Trace: sv3-Lh4ul3V62O8hvcu9ogm0ONXpZnIbMOdHK9lCB6L21DA6p00mexMcyg2FvdyWoQfSLEP0Ngw7/1cg8dR!OlwOCEBb4vnYbh0XkailZFSRwDFrqrje3jRWCEyxHt/3f7wH0x4W8ygwg71raMTBRqfhfLYtb1Xa!+bA0nre1gzqHMA5Zwg==
X-Complaints-To: abuse@wavecable.com
X-DMCA-Complaints-To: abuse@wavecable.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12821

I helped my CW hearing ability by making a long speaker box which allowed the speaker element to slide up and down the length of the box, changing the resonant pitch of the box, which allows an audio "peaking" effect.

This has the effect of amplifying the cw sidetone at different pitches and also increasing the S/N ratio. Usually, the QRN gets lost in the longer travel up the wooden box.
Dave
N4DAG

"AndyS" <andysharpe@juno.com> wrote in message

```
news:1162817107.995131.309630@f16g2000cwb.googlegroups.com...
> Andy writes:
>
>   A recent thread from a ham with a hearing disability who was
> looking for a way to make CW easier to copy caused me to
> think about something I had seen that might help.  I will try
> to describe it...
>
>   The audio output was applied to an amplifier that had
> an artificial "threshold", like putting diodes in SERIES with
> the input so that no signal would reach the amplifier  until
> the total level was high enough to break down the diodes
> ......... only the threshold was more precise and not
> "soft"............. easy to do with op amps.....
>
>   The audio was adjusted to the point where NO signal
> would not produce and output and YES signal would
> simply amplify and cause an output...
>
>    ..... much like adjusting a relay to click in at a given
> threshold....
>
>   Note that this does NOT increase the SNR because that
> has to be measure with a signal, and when the signal is
> present the noise is riding on top of it......
>
>   However it would produce more "abrupt" contrast between
> YES signal and NO signal..... much like the FM quieting
> phenomena that one of the posters in CW Remodulator
> referred to.......
>
>   It might improve the ability to copy for someone with a
> hearing disability..
>
>   I haven't tried it, but I can't see why it wouldn't help.
>
> If a reader has built it up, or something similar, I would
> appreciate hearing about it..... or possibly where the
> original article describing it appeared.... I'm sure it was
> either the ARRL handbook or an old issues of QST....
>
>    Just wanted to throw this in the mix.  Good luck.
>
>             Andy   W4OAH
>



From 5372041356965627554
X-Google-Thread: fc2a5,7a7ec293678423ac
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news1.google.com!postnews.google.com!p15g2000hsd.googlegroups.com!not-for-
mail
From: "gbowne1" <gbowne1@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VCO
Date: 31 Mar 2007 14:24:35 -0700
Organization: http://groups.google.com
Lines: 13
Message-ID: <1175376275.578045.317640@p15g2000hsd.googlegroups.com>
References: <1175150734.923132.145930@y80g2000hsf.googlegroups.com>
   <1175215503.754700.119330@b75g2000hsg.googlegroups.com>
   <1175302021.621685.199100@p77g2000hsh.googlegroups.com>
   <1175366004.943986.274030@n76g2000hsh.googlegroups.com>
NNTP-Posting-Host: 66.109.195.80
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1175376277 30126 127.0.0.1 (31 Mar 2007 21:24:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 31 Mar 2007 21:24:37 +0000 (UTC)
In-Reply-To: <1175366004.943986.274030@n76g2000hsh.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p15g2000hsd.googlegroups.com; posting-host=66.109.195.80;
   posting-account=8BAS0Q0AAAAnJPh6jhjhjuvPq1nRIH_s
Xref: g2news1.google.com rec.radio.amateur.homebrew:12822
```

I'm understanding this more and more as I go along. Thanks to the
first two replies on this thread. I'm still learning more about
electronics in general. But learning about RF and HF electronics
really has been interesting.. and may prove hefpful.

I'd at least like to start learning more about the project in that
book though. I know that it's primarily a building block learning
process.

To Len, I know exactly where that is.. :-)

Greg

```
From -3827603310067983330
X-Google-Thread: fc2a5,7df6c49a19c050da
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!b75g2000hsg.googlegroups.com!not-for-
mail
From: "William E Miller" <prototech@usa.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Old microwave
Date: 31 Mar 2007 20:44:58 -0700
```

```
Organization: http://groups.google.com
Lines: 9
Message-ID: <1175399098.830015.189070@b75g2000hsg.googlegroups.com>
References: <69f3a$45f74f17$d066b697$3793@FUSE.NET>
NNTP-Posting-Host: 68.77.75.6
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1175399100 7364 127.0.0.1 (1 Apr 2007 03:45:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 1 Apr 2007 03:45:00 +0000 (UTC)
In-Reply-To: <69f3a$45f74f17$d066b697$3793@FUSE.NET>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.12) Gecko/20050915
Firefox/1.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b75g2000hsg.googlegroups.com; posting-host=68.77.75.6;
   posting-account=uYJh3gsAAABqp30eG7pI1cpLzTTlIS45
Xref: g2news1.google.com rec.radio.amateur.homebrew:12823

On Mar 13, 8:21 pm, jawod <j...@fuse.net> wrote:
> I have an old kitchenmicrowaveunit whose only fault is that the
> digital readout is broken.  As a neophyte homebrew guy  (kits only so
> far...Elecraft K2, etc), Is there anything worth salvaging from this unit?

Ever consider getting it fixed?

Only $39.95 at http://www.microwavedisplay.com



From 9047457148483329929
X-Google-Thread: fc2a5,24e6deef53c75fab,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr21.news.prodigy.net.POSTED!e923779d!not-for-
mail
From: "Beech Creek" <silverado@post.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Question about Switch
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <rTJPh.4424$u03.1827@newssvr21.news.prodigy.net>
NNTP-Posting-Host: 75.23.38.243
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr21.news.prodigy.net 1175415383 ST000 75.23.38.243 (Sun, 01 Apr
2007 04:16:23 EDT)
NNTP-Posting-Date: Sun, 01 Apr 2007 04:16:23 EDT
```

Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
F[O]C_SOVJPUCFD[LZKJOPHAWB\^PBQLGPQRZUEK@YUDUWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
TINTDDMVW[X\THOPXZRVOCJTUTPC_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Sun, 01 Apr 2007 08:16:23 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:12824

I have an old Murch Ultimate Transmatch that I would like to put a switch in so that I can switch the transmatch in or out of the circuit. What kind of switch should I use that will handle the 2KW power rating of the transmatch?

Thanks in advance for any advice.

Cal Barton
WB5CYS

From -3764145511782388886
X-Google-Thread: 112d1e,6db7ceffe7857003,start
X-Google-Thread: fc2a5,6db7ceffe7857003,start
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y66g2000hsf.googlegroups.com!not-for-mail
From: "Paul Burridge" <paul@burridge8333.fsbusiness.co.uk>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Jackrabbits Problem
Date: 1 Apr 2007 02:42:06 -0700
Organization: http://groups.google.com
Lines: 51
Message-ID: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
NNTP-Posting-Host: 84.19.182.23
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1175420528 9595 127.0.0.1 (1 Apr 2007 09:42:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 1 Apr 2007 09:42:08 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y66g2000hsf.googlegroups.com; posting-host=84.19.182.23;
   posting-account=BJIwyQ0AAADYc2s0ibgcfLhv1YMODBci
Xref: g2news1.google.com sci.electronics.design:212457
rec.radio.amateur.homebrew:12825

Hi everyone,

I've been getting a lot of stress from my girlfriend. The problem is jackrabbits. There are a lot of them where we live and at this time of

year
they box each other quite viciously. My girlfriend gets terribly upset
about this and I get nagged as a result. I've tried
to explain to her that it's just nature and they're only establishing
territory for breeding and whatnot and to just let them get on with
it.
However, she won't see reason and insists I do something to break the
fights up. So I
need your help. I've decided the best solution is to build a 'bunny
zapper' type stun-gun. Now it's self-evidently important
NOT TO KILL THE RABBITS, but they must get a shock sufficient to get
the message
across that violence is unacceptable. IMV it should therefore carry
JUST enough
whack to blow their ears clean off. So how much
voltage will this application require? I assume we're talking
kilovolts, but how many?
Does the rabbits' fur resistance affect the calculations?
I have tried researching this on the internet, but it appears no one
has yet
carried out any clinical trials into the problem. So I need you guys
to give me
a ballpark figure. Better yet, if anyone knows of a commercial outfit
that
manufactures stun-guns for use
against jackrabbits can they please post a URL? Finally, is there an
ecologically sound way of disposing of/recycling all the blown-off
ears?
Thanks.

A note to the sceptics:
There is a sound scientific rationale behind my intended approach:
I'm aware that female jackrabbits select their mates primarily by
the length and lustre of the male's ears, so any male with just
a couple of smoking, charred stumps sticking out of his head is
unlikely to
be successful in attracting a mate. In this way, hopefully the
genepool of
the most aggressive rabbits will diminish over time.
Lastly, if we can get the concept accepted into the mainstream as a
legitimate
hobby or sport then maybe we call ALL make a few bucks out of it.
Let's all try to work
together on this one, guys.

pb.

```
From 6411967209151399936
X-Google-Thread: 112d1e,6db7ceffe7857003
X-Google-Thread: fc2a5,6db7ceffe7857003
X-Google-Attributes: gid112d1e,gidfc2a5,public
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n59g2000hsh.googlegroups.com!not-for-mail
From: bill.sloman@ieee.org
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Jackrabbits Problem
Date: 1 Apr 2007 05:18:38 -0700
Organization: http://groups.google.com
Lines: 43
Message-ID: <1175429918.601496.275070@n59g2000hsh.googlegroups.com>
References: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
NNTP-Posting-Host: 62.131.10.18
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1175429920 14936 127.0.0.1 (1 Apr 2007 12:18:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 1 Apr 2007 12:18:40 +0000 (UTC)
In-Reply-To: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n59g2000hsh.googlegroups.com; posting-host=62.131.10.18;
   posting-account=9eAkcQwAAAB6QTSQQnHDtaLZZpevkcb8
Xref: g2news1.google.com sci.electronics.design:212474 rec.radio.amateur.homebrew:12826

On Apr 1, 11:42 am, "Paul Burridge"
<p...@burridge8333.fsbusiness.co.uk> wrote:

> Hi everyone,
>
> I've been getting a lot of stress from my girlfriend. The problem is
> jackrabbits. There are a lot of them where we live and at this time of
> year they box each other quite viciously.

<snip>

Aren't you talking about hares?

http://www.enchantedlearning.com/subjects/mammals/lagomorphs/Jrabbitprintout.shtml

They may be called jackrabbits in the U.S. but I've never heard of
them being called anything but hares in the U.K.

According to this web-site

http://www.bbc.co.uk/nature/wildfacts/factfiles/192.shtml

the boxers are unreceptive females fighting off males, rather than
males competing for territory, so your girlfriend is going to want you
to able to direct your stun-gun at the male participant, which is
obviously going to be difficult if neither of you has yet realised
that you have been looking at male-female encounters.

A properly programmed image analysis system may be able to do better than you can in determining the sex of the hares - it turned out to be relatively easy to set up an image analysis system to sex day-old chickens, a skill that humans can only acquire after a lot of practice - but you then have to couple this to some kind of long-range non-lethal projectile system, like a taser, with a better long range accuracy than anything I've ever heard off.

It's not a job that I'd take on with any high expectation of eventual success, and I've got a higher opinion of my own competence than I have of yours, though this is not an opinion that you will share (another one of your problems).

--
Bill Sloman, Nijmegen

```
From -5780401295297629042
X-Google-Thread: fc2a5,d7c445d6f2976ef5,start
X-Google-Thread: fc8b1,d7c445d6f2976ef5,start
X-Google-Thread: 111d0a,d7c445d6f2976ef5,start
X-Google-Thread: 113975,d7c445d6f2976ef5,start
X-Google-Attributes: gidfc2a5,gidfc8b1,gid111d0a,gid113975,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d57g2000hsg.googlegroups.com!not-for-
mail
From: bill.meara@gmail.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.basics,sc
i.astro.amateur
Subject: SolderSmoke -- A Podcast for You
Date: 1 Apr 2007 05:33:12 -0700
Organization: http://groups.google.com
Lines: 47
Message-ID: <1175430792.546647.296160@d57g2000hsg.googlegroups.com>
NNTP-Posting-Host: 86.141.197.159
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1175430797 2530 127.0.0.1 (1 Apr 2007 12:33:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 1 Apr 2007 12:33:17 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d57g2000hsg.googlegroups.com; posting-host=86.141.197.159;
   posting-account=7vRsuQwAAADlh58wGAIfEFYQRw36eW7d
Xref: g2news1.google.com rec.radio.amateur.homebrew:12827
rec.radio.amateur.boatanchors:11110 sci.electronics.basics:49689
sci.astro.amateur:77034
```

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A SHOW FOR ELECTRONICS HOMEBREWERS!

http://www.soldersmoke.com

Listen at: http://www.soldersmoke.com

SolderSmoke #52

April 1, 2007

-- Excelsior! Jean Shepherd's stories about ham radio.
-- Legislation to ban hobbyist soldering.
-- History of LTSpice.
-- Workbench update.
-- SPECIAL GUEST EDITION OF BANDSWEEP: A satellite pass over M0DHP.
-- MAILBAG: Using an AM radio to interfere with the Chicago White Sox. SolderSmoke in 1930.

Tired of listening to Frank Sinatra or NPR on your I-Pod?   Wouldn't you like to be able to carry with you the kinds of ham radio conversations that you listen to while in your radio shack? Tune in to SolderSmoke!

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http://www.soldersmoke.com/soldersmoke.rss

If you don't have an MP3 player you can just go to the site below and listen to the latest program (and earlier editions) using the audio software on your computer.

http://www.soldersmoke.com

All the programs are available here.

I hope you enjoy the program. Please send us feedback.

73 from London
Bill M0HBR N2CQR CU2JL
http://www.gadgeteer.us

```
From 7793042733392805563
X-Google-Thread: 112d1e,6db7ceffe7857003
X-Google-Thread: fc2a5,6db7ceffe7857003
X-Google-Attributes: gid112d1e,gidfc2a5,public
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-
media.com!hw-filter.lga!newsfe22.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
References: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
Subject: Re: Jackrabbits Problem
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <EZOPh.59787$mJ1.11350@newsfe22.lga>
Date: Sun, 1 Apr 2007 10:04:07 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe22.lga 1175436260 68.0.230.122 (Sun, 01 Apr 2007 07:04:20 MST)
NNTP-Posting-Date: Sun, 01 Apr 2007 07:04:20 MST
Organization: Cox
Xref: g2news1.google.com sci.electronics.design:212491
rec.radio.amateur.homebrew:12828
```

"Paul Burridge" <paul@burridge8333.fsbusiness.co.uk> wrote in message
news:1175420526.885549.200800@y66g2000hsf.googlegroups.com...

> Hi everyone,
>

Paul

What you need is a Border Collie. Besides being a loyal
and beautiful pet, they can be trained (natural instincts)
to herd and escort the bunnies off your property, making
them your neighbors problems. Otherwise, get a Lab,
they will eat the bunnies and again the problem will
be solved.

Hope this helps.

Pete k1zjh

```
From 7250644076926865012
X-Google-Thread: 112d1e,6db7ceffe7857003
X-Google-Thread: fc2a5,6db7ceffe7857003
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!not-for-mail
From: "Greg Neill" <gneillREM@VEsympatico.ca>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
References: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
Subject: Re: Jackrabbits Problem
Date: Sun, 1 Apr 2007 10:21:49 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
X-NFilter: 1.2.0
Lines: 10
Message-ID: <460fbff7$0$641$9a6e19ea@news.newshosting.com>
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news1.google.com sci.electronics.design:212495
rec.radio.amateur.homebrew:12829

"Paul Burridge" <paul@burridge8333.fsbusiness.co.uk> wrote in message
news:1175420526.885549.200800@y66g2000hsf.googlegroups.com...

[snip]

Take your girlfriend out for a nice dinner and order
the Hasenfeffer. Your mandate may be changed
thereafter.

From 7139954007077019650
X-Google-Thread: 112d1e,6db7ceffe7857003
X-Google-Thread: fc2a5,6db7ceffe7857003
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!c08110db!not-for-mail
From: "Rick" <notta@goodone.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
References: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
Subject: Re: Jackrabbits Problem
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <24QPh.133356$_73.117516@newsread2.news.pas.earthlink.net>
Date: Sun, 01 Apr 2007 15:19:26 GMT
NNTP-Posting-Host: 4.229.138.75

X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1175440766 4.229.138.75 (Sun, 01 Apr 2007 08:19:26 PDT)
NNTP-Posting-Date: Sun, 01 Apr 2007 08:19:26 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com sci.electronics.design:212512 rec.radio.amateur.homebrew:12830

"Paul Burridge" <paul@burridge8333.fsbusiness.co.uk> wrote in message news:1175420526.885549.200800@y66g2000hsf.googlegroups.com...
> Hi everyone,
>
> I've been getting a lot of stress from my girlfriend. The problem is
> jackrabbits. There are a lot of them where we live and at this time of
> year
> they box each other quite viciously.

Import some French Jaquesrabbits..no more fighting...

From -8794074642040036917
X-Google-Thread: fc2a5,24e6deef53c75fab
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: "RST Engineering" <jim@rstengineering.com>
Newsgroups: rec.radio.amateur.homebrew
References: <rTJPh.4424$u03.1827@newssvr21.news.prodigy.net>
Subject: Re: Question about Switch
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <26QPh.3$nl2.18451@news.sisna.com>
Date: Sun, 1 Apr 2007 08:21:17 -0700
NNTP-Posting-Host: 70.41.242.222
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1175440894 70.41.242.222 (Sun, 01 Apr 2007 09:21:34 MDT)
NNTP-Posting-Date: Sun, 01 Apr 2007 09:21:34 MDT
Organization: Internet News Service
X-Received-Date: Sun, 01 Apr 2007 09:21:35 MDT (news.sisna.com)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12831

Almost any kind of switch you want, including the miniatures, providing that you don't do the toggling during the transmit mode.

Jim

"Beech Creek" <silverado@post.com> wrote in message
news:rTJPh.4424$u03.1827@newssvr21.news.prodigy.net...
>I have an old Murch Ultimate Transmatch that I would like to put a switch
>in so that I can switch the transmatch in or out of the circuit. What kind
>of switch should I use that will handle the 2KW power rating of the
>transmatch?
>
> Thanks in advance for any advice.
>
> Cal Barton
> WB5CYS
>

From 4654522099776428041
X-Google-Thread: 112d1e,6db7ceffe7857003
X-Google-Thread: fc2a5,6db7ceffe7857003
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 01 Apr 2007 13:03:20 -0500
Date: Sun, 01 Apr 2007 11:05:19 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Jackrabbits Problem
References: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
In-Reply-To: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <LKGdndc7NKZ1bpLbnZ2dnUVZ_h_inZ2d@web-ster.com>
Lines: 68
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-b9T3tYIsZlYmW4PUlm/VuSxmepDJM9nmVAYKXir7SzI4SfyqXtwojrEF0yPmgFiROV1AOc4PUqUH+K1!iHHglb7mNwV8QsqweUhqTwiKWXQDp7W9Q+BlMZluEPTVlTVHUo73MrrgbLMzEn8zoKwUbKJLSBPc!Ab+XqcAJbnrRcXN2
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com sci.electronics.design:212651

rec.radio.amateur.homebrew:12832

Paul Burridge wrote:
> Hi everyone,
>
> I've been getting a lot of stress from my girlfriend. The problem is
> jackrabbits. There are a lot of them where we live and at this time of
> year
> they box each other quite viciously. My girlfriend gets terribly upset
> about this and I get nagged as a result. I've tried
> to explain to her that it's just nature and they're only establishing
> territory for breeding and whatnot and to just let them get on with
> it.
> However, she won't see reason and insists I do something to break the
> fights up. So I
> need your help. I've decided the best solution is to build a 'bunny
> zapper' type stun-gun. Now it's self-evidently important
> NOT TO KILL THE RABBITS, but they must get a shock sufficient to get
> the message
> across that violence is unacceptable. IMV it should therefore carry
> JUST enough
> whack to blow their ears clean off. So how much
> voltage will this application require? I assume we're talking
> kilovolts, but how many?
> Does the rabbits' fur resistance affect the calculations?
> I have tried researching this on the internet, but it appears no one
> has yet
> carried out any clinical trials into the problem. So I need you guys
> to give me
> a ballpark figure. Better yet, if anyone knows of a commercial outfit
> that
> manufactures stun-guns for use
> against jackrabbits can they please post a URL? Finally, is there an
> ecologically sound way of disposing of/recycling all the blown-off
> ears?
> Thanks.
>
> A note to the sceptics:
> There is a sound scientific rationale behind my intended approach:
> I'm aware that female jackrabbits select their mates primarily by
> the length and lustre of the male's ears, so any male with just
> a couple of smoking, charred stumps sticking out of his head is
> unlikely to
> be successful in attracting a mate. In this way, hopefully the
> genepool of
> the most aggressive rabbits will diminish over time.
> Lastly, if we can get the concept accepted into the mainstream as a
> legitimate
> hobby or sport then maybe we call ALL make a few bucks out of it.
> Let's all try to work
> together on this one, guys.
>
> pb.

>
A varmint rifle or slingshot, and the introduction of rabbit stew into
the menu? You may get resolution the very first time the serving dish
hits the table. You could save money twice -- meat is expensive, and so
are girlfriends.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From -8076629623319567570
X-Google-Thread: 112d1e,6db7ceffe7857003
X-Google-Thread: fc2a5,6db7ceffe7857003
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr27.news.prodigy.net.POSTED!0d06e27e!not-for-mail
From: "Tom Donaly" <dtdonaly@sbcglobal.net>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Jackrabbits Problem
References: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
<LKGdndc7NKZ1bpLbnZ2dnUVZ_h_inZ2d@web-ster.com>
In-Reply-To: <LKGdndc7NKZ1bpLbnZ2dnUVZ_h_inZ2d@web-ster.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 64
Message-ID: <JISPh.5039$Kd3.1357@newssvr27.news.prodigy.net>
NNTP-Posting-Host: 67.118.246.113
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr27.news.prodigy.net 1175451561 ST000 67.118.246.113 (Sun, 01 Apr
2007 14:19:21 EDT)
NNTP-Posting-Date: Sun, 01 Apr 2007 14:19:21 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
SCSGG\WGQZUORVXXWBCBNWX@RJ_XPDLMN@GZ_GYO^BTJUZ]CDVW[AKK[J\]^HVKHG^EWZHBLO^[\NH_AZF
WGN^\DHNVMX_DHHX[FSQKBOTS@@BP^]C@RHS_AGDDC[AJM_T[GZNRNZAY]GNCPBDYKOLK^_CZFWPGHZIXW
@C[AFKBBQS@E@DAZ]VDFUNTQQ]FN
Date: Sun, 01 Apr 2007 18:19:21 GMT
Xref: g2news1.google.com sci.electronics.design:212671
rec.radio.amateur.homebrew:12833

Tim Wescott wrote:
> Paul Burridge wrote:
>> Hi everyone,
>>
>> I've been getting a lot of stress from my girlfriend. The problem is
>> jackrabbits. There are a lot of them where we live and at this time of
>> year
>> they box each other quite viciously. My girlfriend gets terribly upset
>> about this and I get nagged as a result. I've tried
>> to explain to her that it's just nature and they're only establishing
>> territory for breeding and whatnot and to just let them get on with
>> it.
>> However, she won't see reason and insists I do something to break the
>> fights up. So I
>> need your help. I've decided the best solution is to build a 'bunny
>> zapper' type stun-gun. Now it's self-evidently important
>> NOT TO KILL THE RABBITS, but they must get a shock sufficient to get
>> the message
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>> JUST enough
>> whack to blow their ears clean off. So how much
>> voltage will this application require? I assume we're talking
>> kilovolts, but how many?
>> Does the rabbits' fur resistance affect the calculations?
>> I have tried researching this on the internet, but it appears no one
>> has yet
>> carried out any clinical trials into the problem. So I need you guys
>> to give me
>> a ballpark figure. Better yet, if anyone knows of a commercial outfit
>> that
>> manufactures stun-guns for use
>> against jackrabbits can they please post a URL? Finally, is there an
>> ecologically sound way of disposing of/recycling all the blown-off
>> ears?
>> Thanks.
>>
>> A note to the sceptics:
>> There is a sound scientific rationale behind my intended approach:
>> I'm aware that female jackrabbits select their mates primarily by
>> the length and lustre of the male's ears, so any male with just
>> a couple of smoking, charred stumps sticking out of his head is
>> unlikely to
>> be successful in attracting a mate. In this way, hopefully the
>> genepool of
>> the most aggressive rabbits will diminish over time.
>> Lastly, if we can get the concept accepted into the mainstream as a
>> legitimate
>> hobby or sport then maybe we call ALL make a few bucks out of it.
>> Let's all try to work
>> together on this one, guys.
>>
>> pb.

>>
> A varmint rifle or slingshot, and the introduction of rabbit stew into
> the menu? You may get resolution the very first time the serving dish
> hits the table. You could save money twice -- meat is expensive, and so
> are girlfriends.
>

You wouldn't eat the jackrabbits around here (Lepus Californicus) more
than a couple of times before you contracted one of their diseases.
Stick to chicken. It tastes like jackrabbit, anyway.
73,
Tom Donaly, KA6RUH

```
From 3539055201551605731
X-Google-Thread: 112d1e,6db7ceffe7857003
X-Google-Thread: fc2a5,6db7ceffe7857003
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e65g2000hsc.googlegroups.com!not-for-
mail
From: "JeffM" <jeffm_@email.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Jackrabbits Problem
Date: 1 Apr 2007 11:42:14 -0700
Organization: http://groups.google.com
Lines: 8
Message-ID: <1175452934.640046.155050@e65g2000hsc.googlegroups.com>
References: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
NNTP-Posting-Host: 198.147.225.137
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1175452936 25382 127.0.0.1 (1 Apr 2007 18:42:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 1 Apr 2007 18:42:16 +0000 (UTC)
In-Reply-To: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/
20040803,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e65g2000hsc.googlegroups.com; posting-host=198.147.225.137;
   posting-account=i46l4AwAAAAew7zHwI51Viu6VS8e5qPU
Xref: g2news1.google.com sci.electronics.design:212697
rec.radio.amateur.homebrew:12834
```

Paul Burridge wrote:
>The problem is jackrabbits.

The solutions are:
A carnivore on the property
Carnivore urine at the edge of the property
The sound of a carnivore (a hawk) played occasionally

From -9005676083399549602
X-Google-Thread: fc2a5,9f1020835da99b28,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!news-
out.octanews.net!mauve.octanews.net!news-out.readnews.com!postnews3.readnews.com!
not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Timonium hamfest observation
From: hexter@blazenet.net (gudmundur)
Reply-To: retxeh@blazenet.net
Organization: alphabetically?
X-Newsreader: WinVN 0.99.6
MIME-Version: 1.0
Content-Type: Text/Plain; charset=US-ASCII
Date: 02 Apr 2007 02:29:51 GMT
Lines: 46
Message-ID: <46106a9e$0$30098$470ef3ce@news.pa.net>
NNTP-Posting-Host: f55782ae.news.pa.net
X-Trace: DXC=N4_5bbNX>:mFIGPAdlO[Ko9B5=CnbAAlj4CJL]<><^Iih_]kbjS?
RJmo1=fUO5FU7dYS6@1Z0^XCik1MDN5K7Ofa
X-Complaints-To: abuse@pa.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:12835

Hey folks,

What is going on with the Russians selling obviously defective junk and representing it as first quality good merchandise??

Of course there are dubious characters at hamfests but this was just over the edge this year!!

Stacks of CDR drives, Hard drives, all marked 'bad' somewhere on them and marked $5 each or in that area. When asked about the drives and not pointing out that it is already marked as 'bad' the guy replies in crappy english "I have not tested all of these but every one I tried has worked". So I go out and drag my laptop in and guess what??? Five out of five random drives I selected failed completely. Some didn't even spin up. Are these guys dumpster diving outside a factory repair center or is this the stuff we sent over to Russia to have disassembled for the recycle value? Well I also tried some RAM chips. Again, the very bags these things were in were marked 'Fails memory test'. The seller represented them as 'good pull outs'. They couldn't have been any worse if they had been struck by lightening. It is one thing to say to the buyer "I really don't know the condition, you're buying as-is", or "I haven't tested it, but if there is a problem you may choose a differant one until you find a good one". These guys were blatently misrepresenting garbage as good useable merchandise!!!

We went through this with the Asian wave, then came the East Indian

wave, now it's the former Soviet block ripoff artists.
I didn't get any business cards from the guys but I wish I had.
These jokers will kill hamfesting by causing folks to think it is
nothing more than a ripoff field-day for the un-suspecting and I
really think these less than reputable folks should be reported
to the hamfest commities.

Caveat Emptor is one thing, but this was just outright lies on the
part of the seller. Pity those who are just starting out in this
hobby and looking for a bargin and get scammed, buy foriegn nationals
at that!!

I did find some Ram for my laptop, a 6C5 vacuum tube, a 'point
and shoot' temperature reading device, some doorknob capacitors,
a 21 pin Cinch Jones male-female pair, and an external floppy
drive for a Thinkpad. All these items were in perfect condition
and the sellers (who were not Russian) were more than happy to
demonstrate the first-rate quality of those items. Hats off to
the rare breed of honest hamfester!!!!

From 7598933804984889228
X-Google-Thread: fc2a5,7df6c49a19c050da
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newshub.stanford.edu!
headwall.stanford.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Old microwave
Date: 1 Apr 2007 22:31:20 -0500
Organization: Kansas State University
Lines: 21
Message-ID: <eupte8$7ee@unix1.cc.ksu.edu>
References: <69f3a$45f74f17$d066b697$3793@FUSE.NET>
<1175399098.830015.189070@b75g2000hsg.googlegroups.com>
NNTP-Posting-Host: unix1.cc.ksu.edu
X-Trace: cnn.cns.ksu.edu 1175484681 23460 129.130.12.3 (2 Apr 2007 03:31:21 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Mon, 2 Apr 2007 03:31:21 +0000 (UTC)
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12836

>> I have an old kitchenmicrowaveunit whose only fault is that the
>> digital readout is broken. As a neophyte homebrew guy (kits only so
>> far...Elecraft K2, etc), Is there anything worth salvaging from this unit?

>Ever consider getting it fixed?
>Only $39.95 at http://www.microwavedisplay.com

Or, for that price or maybe $10 more, buy a NEW one!
(Yes, I know that's not "homebrew", but, after getting a new one,

you could then legitimately scrounge all the parts mentioned in
earlier posts from the old one.

Kids (and adults, too) just LOVE to play with 2-6 of those really-strong cylindrical magnets strung NS SN NS SN... on a dowell!
Levitation is almost magic!

--
--Myron A. Calhoun; W0PBV
Five boxes preserve our freedoms: soap, ballot, witness, jury, and cartridge
NRA Life Member & Certified Instructor for Rifle, Pistol, & Home Firearm Safety
Also Certified Instructor for the Kansas Concealed-Carry Handgun (CCH) license

From -7343867115807999999
X-Google-Thread: 112d1e,6db7ceffe7857003
X-Google-Thread: fc2a5,6db7ceffe7857003
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p77g2000hsh.googlegroups.com!not-for-mail
From: "Piglit" <moby@kcbbs.gen.nz>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Jackrabbits Problem
Date: 2 Apr 2007 02:51:56 -0700
Organization: http://groups.google.com
Lines: 57
Message-ID: <1175507516.809958.266390@p77g2000hsh.googlegroups.com>
References: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
NNTP-Posting-Host: 202.27.210.135
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1175507518 5665 127.0.0.1 (2 Apr 2007 09:51:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 2 Apr 2007 09:51:58 +0000 (UTC)
In-Reply-To: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p77g2000hsh.googlegroups.com; posting-host=202.27.210.135;
   posting-account=Y-Vl-g0AAAAQ7JqUmVsDCjfEy5w03UQj
Xref: g2news1.google.com sci.electronics.design:212985
rec.radio.amateur.homebrew:12837

On Apr 1, 9:42 pm, "Paul Burridge"
<p...@burridge8333.fsbusiness.co.uk> wrote:
> Hi everyone,
>
> I've been getting a lot of stress from my girlfriend. The problem is
> jackrabbits. There are a lot of them where we live and at this time of
> year
> they box each other quite viciously. My girlfriend gets terribly upset

> about this and I get nagged as a result. I've tried
> to explain to her that it's just nature and they're only establishing
> territory for breeding and whatnot and to just let them get on with
> it.
> However, she won't see reason and insists I do something to break the
> fights up. So I
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> Does the rabbits' fur resistance affect the calculations?
> I have tried researching this on the internet, but it appears no one
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> be successful in attracting a mate. In this way, hopefully the
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> Lastly, if we can get the concept accepted into the mainstream as a
> legitimate
> hobby or sport then maybe we call ALL make a few bucks out of it.
> Let's all try to work
> together on this one, guys.
>
> pb.

I'm sure this could be adapted
http://www.gophernator.com/rodenator____videos
M

From -8739508255707662777
X-Google-Thread: 112d1e,6db7ceffe7857003

```
X-Google-Thread: fc2a5,6db7ceffe7857003
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: martin griffith <mart_in_medina@ya___.es>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Jackrabbits Problem
Date: Mon, 02 Apr 2007 12:30:35 +0200
Organization: nope, Disorganisation Rules
Lines: 63
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References: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
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X-Newsreader: Forte Free Agent 2.0/32.652
Xref: g2news1.google.com sci.electronics.design:212990
rec.radio.amateur.homebrew:12838

On 2 Apr 2007 02:51:56 -0700, in sci.electronics.design "Piglit"
<moby@kcbbs.gen.nz> wrote:

>On Apr 1, 9:42 pm, "Paul Burridge"
><p...@burridge8333.fsbusiness.co.uk> wrote:
>> Hi everyone,
>>
>> I've been getting a lot of stress from my girlfriend. The problem is
>> jackrabbits. There are a lot of them where we live and at this time of
>> year
>> they box each other quite viciously. My girlfriend gets terribly upset
>> about this and I get nagged as a result. I've tried
>> to explain to her that it's just nature and they're only establishing
>> territory for breeding and whatnot and to just let them get on with
>> it.
>> However, she won't see reason and insists I do something to break the
>> fights up. So I
>> need your help. I've decided the best solution is to build a 'bunny
>> zapper' type stun-gun. Now it's self-evidently important
>> NOT TO KILL THE RABBITS, but they must get a shock sufficient to get
>> the message
>> across that violence is unacceptable.  IMV it should therefore carry
>> JUST enough
>> whack to blow their ears clean off. So how much
>> voltage will this application require? I assume we're talking
>> kilovolts, but how many?
>> Does the rabbits' fur resistance affect the calculations?
>> I have tried researching this on the internet, but it appears no one
>> has yet
>> carried out any clinical trials into the problem. So I need you guys
>> to give me
>> a ballpark figure. Better yet, if anyone knows of a commercial outfit
>> that
>> manufactures stun-guns for use
>> against jackrabbits can they please post a URL? Finally, is there an
>> ecologically sound way of disposing of/recycling all the blown-off
>> ears?
>> Thanks.
>>
>> A note to the sceptics:
>> There is a sound scientific rationale behind my intended approach:
>> I'm aware that female jackrabbits select their mates primarily by
>> the length and lustre of the male's ears, so any male with just
>> a couple of smoking, charred stumps sticking out of his head is
>> unlikely to
>> be successful in attracting a mate. In this way, hopefully the
>> genepool of
>> the most aggressive rabbits will diminish over time.
>> Lastly, if we can get the concept accepted into the mainstream as a
>> legitimate
>> hobby or sport then maybe we call ALL make a few bucks out of it.
>> Let's all try to work
>> together on this one, guys.
>>
>> pb.
>
>I'm sure this could be adapted
>http://www.gophernator.com/rodenator____videos
>M
or this http://www.dailyhaha.com/_vids/Squirrel_catapult.htm


martin



From -5402824951944807832
X-Google-Thread: 112d1e,6db7ceffe7857003
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sjc-08!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roger <GetValidAddress@my.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Jackrabbits Problem
Date: Mon, 02 Apr 2007 08:10:25 -0400
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <bjs113hlop3otdgfe2393u9s6bq03uhqhc@4ax.com>
References: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
<EZOPh.59787$mJ1.11350@newsfe22.lga>
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X-Antivirus-Status: Clean
X-Complaints-To: abuse@supernews.com
Lines: 29
Xref: g2news1.google.com sci.electronics.design:213000
rec.radio.amateur.homebrew:12839

On Sun, 1 Apr 2007 10:04:07 -0400, "Uncle Peter"
<radioconnection@cox.net> wrote:

>
>"Paul Burridge" <paul@burridge8333.fsbusiness.co.uk> wrote in message
>news:1175420526.885549.200800@y66g2000hsf.googlegroups.com...
>> Hi everyone,
>>
>
>Paul
>
>What you need is a Border Collie. Besides being a loyal
>and beautiful pet, they can be trained (natural instincts)
>to herd and escort the bunnies off your property, making
>them your neighbors problems. Otherwise, get a Lab,
>they will eat the bunnies and again the problem will
>be solved.

Or a couple of big cats.
Actually, he's probably fighting a losing battle.

>
>Hope this helps.
>
>Pete k1zjh
>
Roger Halstead (K8RI & ARRL life member)
(N833R, S# CD-2 Worlds oldest Debonair)
www.rogerhalstead.com


From -6473334541984321 90
X-Google-Thread: 10c2ee,61e7faade260a9a2,start
X-Google-Thread: f4535,61e7faade260a9a2,start
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From: shoppa@trailing-edge.com
Newsgroups:
rec.antiques.radio+phono,rec.audio.tubes,rec.radio.amateur.homebrew,sci.electronic
s.components
Subject: 811A's, Dual Grid and Class B triodes
Date: 2 Apr 2007 05:27:51 -0700
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Lines: 37
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Injection-Info: n76g2000hsh.googlegroups.com; posting-host=170.121.15.35;
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Xref: g2news1.google.com rec.antiques.radio+phono:69749 rec.audio.tubes:35699
rec.radio.amateur.homebrew:12840 sci.electronics.components:14805
```

I was browsing through Terman (2nd edition) last night and read a paragraph about "Dual Grid and Class B triodes". According to Terman, if two concentric (but similar pitch) grids are put in the triode and then connected to each other as a single control grid, the result is a high-mu triode that needs zero bias for Class B operation.

I do not see dual-grid tubes mentioned in Terman's 3rd edition in the same way.

Googling the term, I see that the 52 tube seems to be an example where both grids are brought out to individual terminals.

I also see that sometimes "dual grid" is used to describe RF tubes where there are two pins for a single grid (to decrease inductance I guess), I'm not talking about these tubes.

The two-grids-connected-together characteristics remind me a lot of, for example, the 811A (the most familiar Class B triode I'm familiar with), but that only has a single grid terminal. Am I correct that the internal grid structures of an 811A are essentially that of two connected grids? If not, what inside an 811A makes it zero-bias high-mu class B triode, as opposed to say its externally similar non-identical-twin the 812A (a low-to-medium-mu triode that needs bias)?

I also note that Terman claims that the dual-grid structure forms a very good electrostatic shield between heater and plate, and see that 811A's are often used in grounded-grid connection in RF amps. (Must be a bitch to neutralize in common-cathode).

I've been intermittently playing around with SPICE to model 811A curves (including grid current at positive grid voltage) and none of the conventional triode models work right at all - its curves are more like a pentode (in fact it's pretty trivial to fit it this way if you let the diode characteristics take over at low plate voltage).

```
Tim.



From 5854870050310942784
X-Google-Thread: 10c2ee,61e7faade260a9a2
X-Google-Thread: f4535,61e7faade260a9a2
X-Google-Thread: fc2a5,61e7faade260a9a2
X-Google-Thread: 1118be,61e7faade260a9a2
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Path: g2news1.google.com!postnews.google.com!y66g2000hsf.googlegroups.com!not-for-
mail
From: "Ed Engelken" <EdEngel@gvtc.com>
Newsgroups:
rec.antiques.radio+phono,rec.audio.tubes,rec.radio.amateur.homebrew,sci.electronic
s.components
Subject: Re: 811A's, Dual Grid and Class B triodes
Date: 2 Apr 2007 06:53:45 -0700
Organization: http://groups.google.com
Lines: 9
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Xref: g2news1.google.com rec.antiques.radio+phono:69756 rec.audio.tubes:35703
rec.radio.amateur.homebrew:12841 sci.electronics.components:14806

>
> Googling the term, I see that the 52 tube seems to be an example where
> both grids are brought out to individual terminals.
=======================================
The #46 is another. The 46 was popular in a number of Atwater Kent
radios circa 1932-33.  Class B Push-Pull output stages in high-end
radios had a brief run in the early 1930s, then faded into history.  --
Ed



From 1061643046324216924
X-Google-Thread: 10c2ee,61e7faade260a9a2
X-Google-Thread: f4535,61e7faade260a9a2
```

X-Google-Thread: fc2a5,61e7faade260a9a2
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NNTP-Posting-Date: Mon, 02 Apr 2007 09:27:14 -0500
Date: Mon, 02 Apr 2007 07:29:14 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.antiques.radio+phono,rec.audio.tubes,rec.radio.amateur.homebrew,sci.electronics.components
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X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.antiques.radio+phono:69761 rec.audio.tubes:35707 rec.radio.amateur.homebrew:12842 sci.electronics.components:14807

shoppa@trailing-edge.com wrote:

> I was browsing through Terman (2nd edition) last night and read a paragraph about "Dual Grid and Class B triodes". According to Terman, if two concentric (but similar pitch) grids are put in the triode and then connected to each other as a single control grid, the result is a high-mu triode that needs zero bias for Class B operation.
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>
> Tim.
>

Dual-grid tubes were popular for a short while. They were touted as being versatile -- connect grid 2 to grid 1 and you had a high-mu triode, connect grid 2 to the plate and you had a low-mu triode. Judging from my tube data books, it didn't take folks long to decide they just wanted one or the other, not two in one package.

The curves look pretty triode-like to me, once you take into account the fact that the thing is running almost exclusively at positive grid voltages. Perhaps the SPICE triode models aren't taking this into account?

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

Do you need to implement control loops in software?
"Applied Control Theory for Embedded Systems" gives you just what it says.
See details at http://www.wescottdesign.com/actfes/actfes.html

From -2241264893317212257
X-Google-Thread: 10c2ee,61e7faade260a9a2
X-Google-Thread: f4535,61e7faade260a9a2
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X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!n59g2000hsh.googlegroups.com!not-for-mail
From: "tubegarden" <tubegarden@aol.com>

Newsgroups:
rec.antiques.radio+phono,rec.audio.tubes,rec.radio.amateur.homebrew,sci.electronics.components
Subject: Re: 811A's, Dual Grid and Class B triodes
Date: 2 Apr 2007 09:14:18 -0700
Organization: http://groups.google.com
Lines: 24
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Complaints-To: groups-abuse@google.com
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Xref: g2news1.google.com rec.antiques.radio+phono:69770 rec.audio.tubes:35709 rec.radio.amateur.homebrew:12843 sci.electronics.components:14809

On Apr 2, 6:53=EF=BF=BDam, "Ed Engelken" <EdEn...@gvtc.com> wrote:
> > Googling the term, I see that the 52 tube seems to be an example where
> > both grids are brought out to individual terminals.
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
> The #46 is another. The 46 was popular in a number of Atwater Kent
> radios circa 1932-33. =A0Class B Push-Pull output stages in high-end
> radios had a brief run in the early 1930s, then faded into history. =A0--
> Ed

Hi RATs!

I have a huge P-P 46 vintage amp. It is not yet functioning. It is
clearly very well built :)

Grow up, Class "A" does not mean good, it means simple ... which,
despite some journalists' daydreams, is not exactly the same
thing ...

Happy Ears!
Al

```
From 7093321624062992171
X-Google-Thread: 10c2ee,61e7faade260a9a2
X-Google-Thread: f4535,61e7faade260a9a2
X-Google-Thread: fc2a5,61e7faade260a9a2
X-Google-Thread: 1118be,61e7faade260a9a2
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X-Google-Language: ENGLISH,ASCII-7-bit
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From: "shoppa@trailing-edge.com" <shoppa@trailing-edge.com>
Newsgroups:
rec.antiques.radio+phono,rec.audio.tubes,rec.radio.amateur.homebrew,sci.electronic
s.components
Subject: Re: 811A's, Dual Grid and Class B triodes
Date: 2 Apr 2007 10:37:21 -0700
Organization: http://groups.google.com
Lines: 31
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 2 Apr 2007 17:37:23 +0000 (UTC)
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1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
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rec.radio.amateur.homebrew:12844 sci.electronics.components:14814

On Apr 2, 12:14 pm, "tubegarden" <tubegar...@aol.com> wrote:
> On Apr 2, 6:53?am, "Ed Engelken" <EdEn...@gvtc.com> wrote:
>
> > > Googling the term, I see that the 52 tube seems to be an example where
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>
> > ========================================
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> > Ed
>
```

> Hi RATs!
>
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> clearly very well built :)
>
> Grow up, Class "A" does not mean good, it means simple ... which,
> despite some journalists' daydreams, is not exactly the same
> thing ...

A push-pull pair of zero-bias class B triodes is even more remarkably simple.

When I first saw the schematic of a 811A P-P audio amp, I was astonished to find not a single resistor or capacitor in the circuit. Two tubes, input and output transformers, and connections to a filament supply and a plate supply. That's all there is, folks!

Tim.

From 3061253984450701602
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From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Timonium hamfest observation
Date: Mon, 2 Apr 2007 16:00:10 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 77
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X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 2 Apr 2007 20:00:11 +0000 (UTC)
In-Reply-To: <46106a9e$0$30098$470ef3ce@news.pa.net>
Xref: g2news1.google.com rec.radio.amateur.homebrew:12845

On Sun, 2 Apr 2007, gudmundur wrote:

> Hey folks,
>

> What is going on with the Russians selling obviously defective
> junk and representing it as first quality good merchandise??
>
> Of course there are dubious characters at hamfests but this was
> just over the edge this year!!
>
> Stacks of CDR drives, Hard drives, all marked 'bad' somewhere
> on them and marked $5 each or in that area. When asked about the
> drives and not pointing out that it is already marked as 'bad'
> the guy replies in crappy english "I have not tested all of these
> but every one I tried has worked". So I go out and drag my laptop
> in and guess what??? Five out of five random drives I selected
> failed completely. Some didn't even spin up. Are these guys
> dumpster diving outside a factory repair center or is this the
> stuff we sent over to Russia to have disassembled for the recycle
> value? Well I also tried some RAM chips. Again, the very bags
> these things were in were marked 'Fails memory test'. The seller
> represented them as 'good pull outs'. They couldn't have been any
> worse if they had been struck by lightening. It is one thing to
> say to the buyer "I really don't know the condition, you're buying
> as-is", or "I haven't tested it, but if there is a problem you may
> choose a differant one until you find a good one". These guys were
> blatently misrepresenting garbage as good useable merchandise!!!
> We went through this with the Asian wave, then came the East Indian
> wave, now it's the former Soviet block ripoff artists.
> I didn't get any business cards from the guys but I wish I had.
> These jokers will kill hamfesting by causing folks to think it is
> nothing more than a ripoff field-day for the un-suspecting and I
> really think these less than reputable folks should be reported
> to the hamfest commities.
>
> Caveat Emptor is one thing, but this was just outright lies on the
> part of the seller. Pity those who are just starting out in this
> hobby and looking for a bargin and get scammed, buy foriegn nationals
> at that!!
>
> I did find some Ram for my laptop, a 6C5 vacuum tube, a 'point
> and shoot' temperature reading device, some doorknob capacitors,
> a 21 pin Cinch Jones male-female pair, and an external floppy
> drive for a Thinkpad. All these items were in perfect condition
> and the sellers (who were not Russian) were more than happy to
> demonstrate the first-rate quality of those items. Hats off to
> the rare breed of honest hamfester!!!!
>
>

I've been going to hamfests for 25-35 years. I've had my share of buying stuff that was said to be good and it wasn't. Or, it was less than what the guy said was what he thought it was. I also bought stuff that worked like it should and like the guy said.

Are you sure your test was under reasonable circumstances? There are lots of hardware incompatibilities, software driver incompatibilities/glitches, and they could have been marked "bad" because someone else didn't test them or install them properly. If you have bad vibes about a deal, don't buy the stuff. If you saw a lot of stuff marked "bad" why didn't you tell them "Hey, this word means it will not work, now why do you think its good?"

I bought computer stuff from thrift stores over the years (monitors and boxes) and 2/3 of the stuff works just fine, the rest goes into the garbage can. In the end, its the price of very cheap computer stuff. 1/3 has to go to the garbage can.

I'd rather concentrate on the overall picture (I was at Timmonium, Saturday) and I thought the tailgater population and the covered space population was down about 20% from what I expected.

Anyone go both days? Hamfests have been in a slow downward trend for about the period when the internet started getting popular.

```
From 6542989437720028359
X-Google-Thread: 10c2ee,61e7faade260a9a2
X-Google-Thread: f4535,61e7faade260a9a2
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-
mail
From: "Bret Ludwig" <bretldwig@yahoo.com>
Newsgroups:
rec.antiques.radio+phono,rec.audio.tubes,rec.radio.amateur.homebrew,sci.electronic
s.components
Subject: Re: 811A's, Dual Grid and Class B triodes
Date: 2 Apr 2007 16:27:57 -0700
Organization: http://groups.google.com
Lines: 14
Message-ID: <1175556477.345495.42310@q75g2000hsh.googlegroups.com>
References: <1175516871.122672.215880@n76g2000hsh.googlegroups.com>
   <1175522025.134892.237800@y66g2000hsf.googlegroups.com>
   <1175530457.955075.198530@n59g2000hsh.googlegroups.com>
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X-Trace: posting.google.com 1175556478 27163 127.0.0.1 (2 Apr 2007 23:27:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 2 Apr 2007 23:27:58 +0000 (UTC)
In-Reply-To: <1175535441.841690.109100@n59g2000hsh.googlegroups.com>
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rv:1.8.1.3) Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
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Xref: g2news1.google.com rec.antiques.radio+phono:69802 rec.audio.tubes:35742 rec.radio.amateur.homebrew:12846 sci.electronics.components:14824

This is very true and interesting. RCA figured out you could strap the control and screen grids of certain power pentodes and use them as low or zero bias triodes, and a couple of RCA theater amps do this. This is also seen in AM era editions of the W6SAI Radio Handbook for modulators. It is simple. It works. Based on long time experiments it was concluded it doesn't sound very good at all.

I have never tried it, on the theoryu if it worked very well it would be popular.

The 811 is certainly an attractive tube economically. It has a mu of 160 as I remember. The Altec 1570B used them as did the Gotham Audio cutter head amp using a GR toroid for output.

From -4983296198207628941
X-Google-Thread: 10c2ee,61e7faade260a9a2
X-Google-Thread: f4535,61e7faade260a9a2
X-Google-Thread: fc2a5,61e7faade260a9a2
X-Google-Thread: 1118be,61e7faade260a9a2
X-Google-Attributes: gid10c2ee,gidf4535,gidfc2a5,gid1118be,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-mail
From: "RapidRonnie" <rapidronnie@cbgb.net>
Newsgroups:
rec.antiques.radio+phono,rec.audio.tubes,rec.radio.amateur.homebrew,sci.electronics.components
Subject: Re: 811A's, Dual Grid and Class B triodes
Date: 2 Apr 2007 19:25:00 -0700
Organization: http://groups.google.com
Lines: 35
Message-ID: <1175567100.640535.71080@q75g2000hsh.googlegroups.com>
References: <1175516871.122672.215880@n76g2000hsh.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 3 Apr 2007 02:25:02 +0000 (UTC)
In-Reply-To: <1175556477.345495.42310@q75g2000hsh.googlegroups.com>
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X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; PPC Mac OS X Mach-O; en-US;

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rv:1.8.1.3) Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q75g2000hsh.googlegroups.com; posting-host=69.148.241.40;
   posting-account=wWvGdA0AAAASe5efRkJlBuA3AevOYcFH
Xref: g2news1.google.com rec.antiques.radio+phono:69826 rec.audio.tubes:35753
rec.radio.amateur.homebrew:12847 sci.electronics.components:14838

On Apr 2, 6:27 pm, "Bret Ludwig" <bretld...@yahoo.com> wrote:
>  This is very true and interesting. RCA figured out you could strap
> the control and screen grids of certain power pentodes and use them as
> low or zero bias triodes, and a couple of RCA theater amps do this.
> This is also seen in AM era editions of the W6SAI Radio Handbook for
> modulators. It is simple. It works. Based on long time experiments it
> was concluded it doesn't sound very good at all.

 Several of the last of the RCA MI-series cinema amps did this with
6L6s and I believe 6146s. None are desireable to the audiophile in
stock form.
>
>  I have never tried it, on the theory if it worked very well it would
> be popular.
>
>  The 811 is certainly an attractive tube economically. It has a mu of
> 160 as I remember. The Altec 1570B used them as did the Gotham Audio
> cutter head amp using a GR toroid for output.

 They showed why toroids are a bad idea for opt's very well, although
there are still a lot of people not listening. With a conventional or
C-core transformer and a revised feedback loop the basic design is
well worth study, though.

 The 811 can be substituted in the MI200 McIntosh if the proper
intermediate transformer is put in so as to get the filament voltage
at the 6.3 rather than the 10 volts of the, I think, 8005s. Although
the amplification factor of the 811 is way too high it works anyway.
Distortion still meets Mc specs. We wound one, in fact, where I worked
on a toroid, because we had plenty of scrap surplus transformers we
could dewind (and take the copper home.) And a Gorman winder, which
makes winding toroids pretty fast and simple. The 811s pull more
current but the Mc filament transformers never even got hot.




From 1271393921015770982
X-Google-Thread: 10c2ee,61e7faade260a9a2
X-Google-Thread: f4535,61e7faade260a9a2
X-Google-Thread: fc2a5,61e7faade260a9a2
X-Google-Thread: 1118be,61e7faade260a9a2
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l77g2000hsb.googlegroups.com!not-for-
mail
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From: "RapidRonnie" <rapidronnie@cbgb.net>
Newsgroups:
rec.antiques.radio+phono,rec.audio.tubes,rec.radio.amateur.homebrew,sci.electronic
s.components
Subject: Re: 811A's, Dual Grid and Class B triodes
Date: 2 Apr 2007 19:29:00 -0700
Organization: http://groups.google.com
Lines: 18
Message-ID: <1175567340.253336.50580@l77g2000hsb.googlegroups.com>
References: <1175516871.122672.215880@n76g2000hsh.googlegroups.com>
   <1175522025.134892.237800@y66g2000hsf.googlegroups.com>
NNTP-Posting-Host: 69.148.241.40
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1175567341 21450 127.0.0.1 (3 Apr 2007 02:29:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 3 Apr 2007 02:29:01 +0000 (UTC)
In-Reply-To: <1175522025.134892.237800@y66g2000hsf.googlegroups.com>
User-Agent: G2/1.0
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rv:1.8.1.3) Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
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   posting-account=wWvGdA0AAAASe5efRkJlBuA3AevOYcFH
Xref: g2news1.google.com rec.antiques.radio+phono:69827 rec.audio.tubes:35754
rec.radio.amateur.homebrew:12848 sci.electronics.components:14839
```

On Apr 2, 8:53 am, "Ed Engelken" <EdEn...@gvtc.com> wrote:

> > Googling the term, I see that the 52 tube seems to be an example where
> > both grids are brought out to individual terminals.
>
> ======================================
> The #46 is another. The 46 was popular in a number of Atwater Kent
> radios circa 1932-33. Class B Push-Pull output stages in high-end
> radios had a brief run in the early 1930s, then faded into history. --
> Ed

Because using conventional circuits the distortion was terrible. True Class B operation works well only at high continuous levels without extreme measures such as Wiggins and Mcintosh/Gow/Corderman afforded. Al Bereskin at Baldwin designed the "poor man's Mc" for organ use and it was published in an extremely good DIY article in the IRE journal in '55 or '56. It never got below 2% THD.

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From -4767272394244791234
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X-Google-Thread: f4535,61e7faade260a9a2
X-Google-Thread: fc2a5,61e7faade260a9a2
X-Google-Thread: 1118be,61e7faade260a9a2
X-Google-Attributes: gid10c2ee,gidf4535,gidfc2a5,gid1118be,public
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fe3.news.blueyonder.co.uk.POSTED!53ab2750!not-for-mail
From: "Ian Iveson" <IanIveson.home@blueyonder.co.uk>
Newsgroups:
rec.antiques.radio+phono,rec.audio.tubes,rec.radio.amateur.homebrew,sci.electronic
s.components
References: <1175516871.122672.215880@n76g2000hsh.googlegroups.com>
<1175522025.134892.237800@y66g2000hsf.googlegroups.com>
<1175530457.955075.198530@n59g2000hsh.googlegroups.com>
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Lines: 13
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
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Message-ID: <GjjQh.36152$%g3.34469@fe3.news.blueyonder.co.uk>
Date: Tue, 03 Apr 2007 02:52:22 GMT
NNTP-Posting-Host: 82.47.137.3
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X-Trace: fe3.news.blueyonder.co.uk 1175568742 82.47.137.3 (Tue, 03 Apr 2007
03:52:22 BST)
NNTP-Posting-Date: Tue, 03 Apr 2007 03:52:22 BST
Xref: g2news1.google.com rec.antiques.radio+phono:69829 rec.audio.tubes:35755
rec.radio.amateur.homebrew:12849 sci.electronics.components:14842

Bugger... HTML.

Al said:
...
Grow up, Class "A" does not mean good, it means simple ... which,
despite  some  journalists' daydreams, is not exactly the same
thing

*Saxophones are really complicated.

cheers, Ian.




From 1660885476313611183
X-Google-Thread: 10c2ee,61e7faade260a9a2
X-Google-Thread: f4535,61e7faade260a9a2
X-Google-Thread: fc2a5,61e7faade260a9a2
X-Google-Thread: 1118be,61e7faade260a9a2
X-Google-Attributes: gid10c2ee,gidf4535,gidfc2a5,gid1118be,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
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```

feed-ams-01!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Jim Mueller" <wrongname@nospam.com>
Newsgroups:
rec.antiques.radio+phono,rec.audio.tubes,rec.radio.amateur.homebrew,sci.electronics.components
Subject: Re: 811A's, Dual Grid and Class B triodes
Date: Mon, 2 Apr 2007 21:48:54 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1313n5tqi7hf27@corp.supernews.com>
References: <1175516871.122672.215880@n76g2000hsh.googlegroups.com>
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X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 91
Xref: g2news1.google.com rec.antiques.radio+phono:69847 rec.audio.tubes:35760
rec.radio.amateur.homebrew:12850 sci.electronics.components:14846

The dual grid tubes strike me as a gimmick. Any pentode or beam power tube can be connected at least 4 ways. Connect the screen to B+ and it behaves as a pentode or beam power tube. Connect the screen to the control grid and it becomes a high-mu triode. Connect the screen to the plate and it becomes a low-mu triode. Connect the control grid to a low positive voltage and drive the screen and it is a space charge triode.

The 811 has only one grid as do other zero bias tubes like the 6N7 and 1635. They just wound the grid with many turns spaced close together to get this characteristic. Low-mu tubes like the 812, 2A3, and 12B4 have few turns spaced far apart. The only triode I know of with two grids is the 6C5. The second grid is internally connected to the plate.

I have seen circuits using 6V6s with the screen tied to the control grid to make a zero bias triode.

The old ARRL handbooks (50s?, 60s?) had a listing in their tube tables for using a 12AX7 as a class B zero bias output tube. They said it could produce 7.5W. I never saw a circuit that actually used one this way, however.

--
Jim Mueller wrongname@nospam.com

To get my real email address, replace wrongname with eportiz. Then replace nospam with sacbeemail.

"Tim Wescott" <tim@seemywebsite.com> wrote in message
news:h6WdndpKvJdfj4zbnZ2dnUVZ_t2tnZ2d@web-ster.com...
> shoppa@trailing-edge.com wrote:
>> I was browsing through Terman (2nd edition) last night and read a

>> paragraph about "Dual Grid and Class B triodes". According to Terman,
>> if two concentric (but similar pitch) grids are put in the triode and
>> then connected to each other as a single control grid, the result is a
>> high-mu triode that needs zero bias for Class B operation.
>>
>> I do not see dual-grid tubes mentioned in Terman's 3rd edition in the
>> same way.
>>
>> Googling the term, I see that the 52 tube seems to be an example where
>> both grids are brought out to individual terminals.
>>
>> I also see that sometimes "dual grid" is used to describe RF tubes
>> where there are two pins for a single grid (to decrease inductance I
>> guess), I'm not talking about these tubes.
>>
>> The two-grids-connected-together characteristics remind me a lot of,
>> for example, the 811A (the most familiar Class B triode I'm familiar
>> with), but that only has a single grid terminal. Am I correct that the
>> internal grid structures of an 811A are essentially that of two
>> connected grids? If not, what inside an 811A makes it zero-bias high-
>> mu class B triode, as opposed to say its externally similar non-
>> identical-twin the 812A (a low-to-medium-mu triode that needs bias)?
>>
>> I also note that Terman claims that the dual-grid structure forms a
>> very good electrostatic shield between heater and plate, and see that
>> 811A's are often used in grounded-grid connection in RF amps. (Must be
>> a bitch to neutralize in common-cathode).
>>
>> I've been intermittently playing around with SPICE to model 811A
>> curves (including grid current at positive grid voltage) and none of
>> the conventional triode models work right at all - its curves are more
>> like a pentode (in fact it's pretty trivial to fit it this way if you
>> let the diode characteristics take over at low plate voltage).
>>
>> Tim.
>>
> Dual-grid tubes were popular for a short while. They were touted as being
> versatile -- connect grid 2 to grid 1 and you had a high-mu triode,
> connect grid 2 to the plate and you had a low-mu triode. Judging from my
> tube data books, it didn't take folks long to decide they just wanted one
> or the other, not two in one package.
>
> The curves look pretty triode-like to me, once you take into account the
> fact that the thing is running almost exclusively at positive grid
> voltages. Perhaps the SPICE triode models aren't taking this into
> account?
>
> --
>
> Tim Wescott
> Wescott Design Services
> http://www.wescottdesign.com
>

```
> Posting from Google?  See http://cfaj.freeshell.org/google/
>
> Do you need to implement control loops in software?
> "Applied Control Theory for Embedded Systems" gives you just what it says.
> See details at http://www.wescottdesign.com/actfes/actfes.html
```

```
From 4718601733149256232
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q75g2000hsh.googlegroups.com!not-for-
mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Jackrabbits Problem
Date: 3 Apr 2007 09:26:11 -0700
Organization: http://groups.google.com
Lines: 7
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NNTP-Posting-Date: Tue, 3 Apr 2007 16:26:13 +0000 (UTC)
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Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q75g2000hsh.googlegroups.com; posting-host=75.88.178.44;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news1.google.com sci.electronics.design:213478
rec.radio.amateur.homebrew:12851
```

Ever think of investing in an ultrasonic emitter? I hear they keep all
kinds of pests (ie. rabbits, squirrels, cats, dogs, small children
etc.) away.

Ralph

```
From -7050671132137093319
X-Google-Thread: 112d1e,6db7ceffe7857003
X-Google-Thread: fc2a5,6db7ceffe7857003
X-Google-Attributes: gid112d1e,gidfc2a5,public
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e65g2000hsc.googlegroups.com!not-for-mail
From: "Andy Peters" <google@latke.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Jackrabbits Problem
Date: 3 Apr 2007 10:28:43 -0700
Organization: http://groups.google.com
Lines: 59
Message-ID: <1175621323.719840.186940@e65g2000hsc.googlegroups.com>
References: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
NNTP-Posting-Host: 63.227.85.78
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1175621325 28975 127.0.0.1 (3 Apr 2007 17:28:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 3 Apr 2007 17:28:45 +0000 (UTC)
In-Reply-To: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.3) Gecko/20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e65g2000hsc.googlegroups.com; posting-host=63.227.85.78;
   posting-account=rwcT2Q0AAAA-HXWeM8WdHSwnrD-p4SPs
Xref: g2news1.google.com sci.electronics.design:213495
rec.radio.amateur.homebrew:12852

On Apr 1, 2:42 am, "Paul Burridge"
<p...@burridge8333.fsbusiness.co.uk> wrote:
> Hi everyone,
>
> I've been getting a lot of stress from my girlfriend. The problem is
> jackrabbits. There are a lot of them where we live and at this time of
> year
> they box each other quite viciously. My girlfriend gets terribly upset
> about this and I get nagged as a result. I've tried
> to explain to her that it's just nature and they're only establishing
> territory for breeding and whatnot and to just let them get on with
> it.
> However, she won't see reason and insists I do something to break the
> fights up. So I
> need your help. I've decided the best solution is to build a 'bunny
> zapper' type stun-gun. Now it's self-evidently important
> NOT TO KILL THE RABBITS, but they must get a shock sufficient to get
> the message
> across that violence is unacceptable. IMV it should therefore carry
> JUST enough
> whack to blow their ears clean off. So how much
> voltage will this application require? I assume we're talking
> kilovolts, but how many?
> Does the rabbits' fur resistance affect the calculations?
> I have tried researching this on the internet, but it appears no one
> has yet

> carried out any clinical trials into the problem. So I need you guys
> to give me
> a ballpark figure. Better yet, if anyone knows of a commercial outfit
> that
> manufactures stun-guns for use
> against jackrabbits can they please post a URL? Finally, is there an
> ecologically sound way of disposing of/recycling all the blown-off
> ears?
> Thanks.
>
> A note to the sceptics:
> There is a sound scientific rationale behind my intended approach:
> I'm aware that female jackrabbits select their mates primarily by
> the length and lustre of the male's ears, so any male with just
> a couple of smoking, charred stumps sticking out of his head is
> unlikely to
> be successful in attracting a mate. In this way, hopefully the
> genepool of
> the most aggressive rabbits will diminish over time.
> Lastly, if we can get the concept accepted into the mainstream as a
> legitimate
> hobby or sport then maybe we call ALL make a few bucks out of it.
> Let's all try to work
> together on this one, guys.
>
> pb.

Why not call Wallace over at Anti Pesto?

They seem to do a good job.

-a

From 5419533969035051676
X-Google-Thread: 112d1e,6db7ceffe7857003
X-Google-Thread: fc2a5,6db7ceffe7857003
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!out03b.usenetserver.com!news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news.tele.dk!news.tele.dk!small.news.tele.dk!news.astraweb.com!newsrouter-eu.astraweb.com!hwmnpeer01.ams!news.highwinds-media.com!feed.xsnews.nl!border-1.ams.xsnews.nl!sn-xt-ams-06!sn-xt-ams-04!sn-post-ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Denton" <denton@oregontrail.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Jackrabbits Problem
Date: Tue, 3 Apr 2007 15:45:36 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1315m8h92gpr37b@corp.supernews.com>
References: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>

X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 56
Xref: g2news1.google.com sci.electronics.design:213596
rec.radio.amateur.homebrew:12853

Low powered pellet gun....
"Paul Burridge" <paul@burridge8333.fsbusiness.co.uk> wrote in message
news:1175420526.885549.200800@y66g2000hsf.googlegroups.com...
> Hi everyone,
>
> I've been getting a lot of stress from my girlfriend. The problem is
> jackrabbits. There are a lot of them where we live and at this time of
> year
> they box each other quite viciously. My girlfriend gets terribly upset
> about this and I get nagged as a result. I've tried
> to explain to her that it's just nature and they're only establishing
> territory for breeding and whatnot and to just let them get on with
> it.
> However, she won't see reason and insists I do something to break the
> fights up. So I
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> Does the rabbits' fur resistance affect the calculations?
> I have tried researching this on the internet, but it appears no one
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> Thanks.
>
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> unlikely to

> be successful in attracting a mate. In this way, hopefully the
> genepool of
> the most aggressive rabbits will diminish over time.
> Lastly, if we can get the concept accepted into the mainstream as a
> legitimate
> hobby or sport then maybe we call ALL make a few bucks out of it.
> Let's all try to work
> together on this one, guys.
>
> pb.
>

```
From 3200287928138576190
X-Google-Thread: fc2a5,eeeb2bfe075c5236,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out03b.usenetserver.com!
news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!
nx01.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-
mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: UTC ls 55 transformers
Date: Tue, 3 Apr 2007 22:33:02 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Lines: 7
Message-ID: <46130e55$0$9974$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12854
```

I picked up a pair of UTC LS-55 transformers at a flea market a couple of
weeks ago. Can some one give me the specs on these. I was hoping they might
me modulation transformers.

Jimme

```
From 2440579768098954520
X-Google-Thread: fc2a5,9f1020835da99b28
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!out01b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
```

cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny05.POSTED!0da99462!
not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <46106a9e$0$30098$470ef3ce@news.pa.net>
Subject: Re: Timonium hamfest observation
Lines: 74
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <XNLQh.6729$%G4.665@trndny05>
Date: Wed, 04 Apr 2007 11:16:07 GMT
NNTP-Posting-Host: 68.236.45.224
X-Complaints-To: abuse@verizon.net
X-Trace: trndny05 1175685367 68.236.45.224 (Wed, 04 Apr 2007 07:16:07 EDT)
NNTP-Posting-Date: Wed, 04 Apr 2007 07:16:07 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:12855

I'm astonished by the naivity of this!

Why would you think that a part or bag of parts marked "bad" should really be good, and that you should be getting good parts for the price of bad ones? This didn't raise any red flags for you? If you went to the supermarket and found a piece of meat that was marked 2 weeks out of date, would you take a chance on it because the merchant said he ate some last night and he didn't get sick? Even if the seller said that most parts that he tested were good, the fact remains that the parts were marked "bad". If you bought parts marked "bad" and they really were bad, then the only questionable part of the transaction is whether you paid too much.

There's an old saying that seems to apply here: "Who's more of a fool, the fool or the fool who follows the fool?". This isn't a matter of deceitful Asians or East Indians, or Russians, it's a matter fools rushing in where others fear to tread.

Joe
W3JDR

"gudmundur" <hexter@blazenet.net> wrote in message
news:46106a9e$0$30098$470ef3ce@news.pa.net...
> Hey folks,
>
> What is going on with the Russians selling obviously defective
> junk and representing it as first quality good merchandise??
>
> Of course there are dubious characters at hamfests but this was

> just over the edge this year!!
>
> Stacks of CDR drives, Hard drives, all marked 'bad' somewhere
> on them and marked $5 each or in that area. When asked about the
> drives and not pointing out that it is already marked as 'bad'
> the guy replies in crappy english "I have not tested all of these
> but every one I tried has worked". So I go out and drag my laptop
> in and guess what??? Five out of five random drives I selected
> failed completely. Some didn't even spin up. Are these guys
> dumpster diving outside a factory repair center or is this the
> stuff we sent over to Russia to have disassembled for the recycle
> value? Well I also tried some RAM chips. Again, the very bags
> these things were in were marked 'Fails memory test'. The seller
> represented them as 'good pull outs'. They couldn't have been any
> worse if they had been struck by lightening. It is one thing to
> say to the buyer "I really don't know the condition, you're buying
> as-is", or "I haven't tested it, but if there is a problem you may
> choose a differant one until you find a good one". These guys were
> blatently misrepresenting garbage as good useable merchandise!!!
> We went through this with the Asian wave, then came the East Indian
> wave, now it's the former Soviet block ripoff artists.
> I didn't get any business cards from the guys but I wish I had.
> These jokers will kill hamfesting by causing folks to think it is
> nothing more than a ripoff field-day for the un-suspecting and I
> really think these less than reputable folks should be reported
> to the hamfest commities.
>
> Caveat Emptor is one thing, but this was just outright lies on the
> part of the seller. Pity those who are just starting out in this
> hobby and looking for a bargin and get scammed, buy foriegn nationals
> at that!!
>
> I did find some Ram for my laptop, a 6C5 vacuum tube, a 'point
> and shoot' temperature reading device, some doorknob capacitors,
> a 21 pin Cinch Jones male-female pair, and an external floppy
> drive for a Thinkpad. All these items were in perfect condition
> and the sellers (who were not Russian) were more than happy to
> demonstrate the first-rate quality of those items. Hats off to
> the rare breed of honest hamfester!!!!
>

From 4035079552877357
X-Google-Thread: fc2a5,9f1020835da99b28
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newshub.stanford.edu!headwall.stanford.edu!newsfeed.news2me.com!nx02.iad01.newshosting.com!newshosting.com!198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Timonium hamfest observation
Date: Wed, 4 Apr 2007 11:44:07 +0000 (UTC)
Organization: MGT Consulting
Lines: 48
Message-ID: <slrnf173lv.thl.gsm@cable.mendelson.com>
References: <46106a9e$0$30098$470ef3ce@news.pa.net> <XNLQh.6729$%G4.665@trndny05>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-139-57-176.bb.netvision.net.il
X-Trace: marvin.misty.com 1175687047 22878 89.139.57.176 (4 Apr 2007 11:44:07 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Wed, 4 Apr 2007 11:44:07 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12856

W3JDR wrote:

> There's an old saying that seems to apply here: "Who's more of a fool, the fool or the fool who follows the fool?". This isn't a matter of deceitful Asians or East Indians, or Russians, it's a matter fools rushing in where others fear to tread.

I knew a guy who used to go around to hamfests, fleamarkets and such things buying drives that were bad. He had memorized a list of manufacuturers and their date codes that were being repaired under warranty, athough there was no recepit, etc. They warrantied the drives for X years and if you called/emailed them with the serial number for a drive they would replace it free if those X years had yet to expire from the date of manufacuture.

I of course had no such luck, the one drive I bought from a ham at a hamfest with a warranty was dead. He gave me a card with his phone number on it, the phone was never answered. :-(

Other people also buy the drives beacuse without any testing there is a 50-50 chance it's circutry card on the drive or the mechanics. If you can inspect them carefully, or know the reputation of certain models, you can imporve the odds. If you buy enough drives cheaply, you can mix and match parts and get working drives out of them.

Memory is also a good bet, if you have the correct tools and skills, and get them cheap enough. Memory is discarded if one chip (of 8) or more is bad, so if you buy two units (SIMMs or DIMMs) there is a good chance you will get 8 working chips out of them. You need a diagnostic tool that will pinpoint the bad chip, and the skills to remove them and re-install good ones.

Obviously the skills are not commonplace and the tools are expensive, but if you do enough, you can learn to do it easily and pay for a set of tools.

Since just about everyone I know has a box full of "dead" RAM (except people who don't fix their own or others computers, or just throw it out), you could get all you need for next to nothing pretty quick.

So there is a good market for bad computer parts, but not a good chance
of buying one and having it be good.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
IL Voice: (07)-7424-1667 Fax ONLY: 972-2-648-1443 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/

```
From 4702815993697083926
X-Google-Thread: fc2a5,eeeb2bfe075c5236
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e65g2000hsc.googlegroups.com!not-for-
mail
From: "Wes" <n7ws@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UTC ls 55 transformers
Date: 4 Apr 2007 06:49:32 -0700
Organization: http://groups.google.com
Lines: 10
Message-ID: <1175694572.855148.200780@e65g2000hsc.googlegroups.com>
References: <46130e55$0$9974$4c368faf@roadrunner.com>
NNTP-Posting-Host: 4.240.244.171
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1175694576 15940 127.0.0.1 (4 Apr 2007 13:49:36 GMT)
X-Complaints-To: groups-abuse@google.com
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In-Reply-To: <46130e55$0$9974$4c368faf@roadrunner.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.11)
Gecko/20070312 Firefox/1.5.0.11,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e65g2000hsc.googlegroups.com; posting-host=4.240.244.171;
   posting-account=nRzaww0AAACJ-gr2UlWsSMxfCpqhAxOU
Xref: g2news1.google.com rec.radio.amateur.homebrew:12857
```

On Apr 3, 7:33 pm, "Jimmie D" <GFEN...@carolina.rr.com> wrote:
> I picked up a pair of UTC LS-55 transformers at a flea market a couple of
> weeks ago. Can some one give me the specs on these. I was hoping they might
> me modulation transformers.
>
> Jimme

k6mhe.com/n7ws/UTC_Page_45.pdf

From 8451441678253677468
X-Google-Thread: 112d1e,6db7ceffe7857003
X-Google-Thread: fc2a5,6db7ceffe7857003
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newshub.stanford.edu!news.kjsl.com!
news.glorb.com!bigfeed2.bellsouth.net!bigfeed.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews1.bellsouth.net.POSTED!ca9a71c5!
not-for-mail
From: James Beck <jim@reallykillersystems.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: Jackrabbits Problem
Message-ID: <MPG.207d914f17cec3be989f3b@newsgroups.bellsouth.net>
References: <1175420526.885549.200800@y66g2000hsf.googlegroups.com>
<1315m8h92gpr37b@corp.supernews.com>
Organization: RKS, Inc.
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-15"
Content-Transfer-Encoding: 7bit
User-Agent: MicroPlanet-Gravity/2.60.2060
Lines: 7
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
pcpocbcnbdmdhgfgdbdpiflmbcekedmfhojhikkbagflhcbolbeamemkpgoogbjjbopemhofeedoiiepjn
pmfnckilpombfjppneobeolemhmahikginckjaemeimnjagkbokmflgleeiebddjflgidpkombipoj
NNTP-Posting-Date: Wed, 04 Apr 2007 11:41:35 EDT
Date: Wed, 4 Apr 2007 11:41:56 -0400
Xref: g2news1.google.com sci.electronics.design:213924
rec.radio.amateur.homebrew:12858

In article <1315m8h92gpr37b@corp.supernews.com>, denton@oregontrail.net
says...
> Low powered pellet gun....

I was thinking a subscription to Animal Planet, so she can get up to
speed with reality.

From 4946969254322903549
X-Google-Thread: fc2a5,ee284056d2029136,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y80g2000hsf.googlegroups.com!not-for-mail
From: makepcb@qq.com
Newsgroups: rec.radio.amateur.homebrew
Subject: SELL PCB
Date: 4 Apr 2007 10:46:40 -0700
Organization: http://groups.google.com
Lines: 13
Message-ID: <1175708800.709657.235160@y80g2000hsf.googlegroups.com>

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NNTP-Posting-Host: 121.35.28.45
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NNTP-Posting-Date: Wed, 4 Apr 2007 17:46:42 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y80g2000hsf.googlegroups.com; posting-host=121.35.28.45;
   posting-account=2VpMJA0AAACONnI72ftlMKz3utGe0N1L
Xref: g2news1.google.com rec.radio.amateur.homebrew:12859
```

GENMA Technology Hong Kong Limited Co. is an export-oriented PCB (Printed Circuit Board) manufacturer . We can provide the single-side PCB, the double-sides PCB and the multi-layer PCB

Contact: Mr. LIU CANFA
Company: GENMA Technology Hong Kong Limited Co.
Address: AiLian B District, LongGang Town
Zip Code: 518121
Phone: 0086-0755-89721024
Fax: 0086-0755-89721070
Mobile 0086-013715245483
Website Address: http://www.gmpcb.net
E-MAIL:gmpcb@gmpcb.net

```
From -5090767942501621380
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
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X-Google-Language: ENGLISH,ASCII-7-bit
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news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 24 Mar 2007 20:12:15 -0500
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <eu3clr$v5k$1@news.datemas.de>
<1174763256.095989.244440@n59g2000hsh.googlegroups.com>
<SLednYsey8C45ZjbnZ2dnUVZ_vKunZ2d@comcast.com>
<q14b035pi3pnakv4ig65bq5i2k5ogsis8g@4ax.com>
<YrSdneL3Q8jjPZjbnZ2dnUVZ_qupnZ2d@comcast.com>
<kjhb03tk5v5nteu5bh16dashd56rptsjd4@4ax.com>
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Sat, 24 Mar 2007 21:11:47 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
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X-RFC2646: Format=Flowed; Original
Message-ID: <5Mydnc1eT9_tUZjbnZ2dnUVZ_vOlnZ2d@comcast.com>
Lines: 26
NNTP-Posting-Host: 68.61.216.97
X-Trace: sv3-
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9Q0hn/KGP9wRTkz+GLYizbE0a8DX34GRAhLJ72GsjVoxH41XcUjrf2BtcAtc59H9Hz12g35VfzEa!
Fs6lpQl6I/AYBtc2QN5CKd4attJ5
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com uk.radio.amateur:106070 rec.radio.amateur.misc:34616
rec.radio.amateur.homebrew:12759


"Walt Davidson" <g3nyy@despammed.com> wrote in message
news:kjhb03tk5v5nteu5bh16dashd56rptsjd4@4ax.com...
> On Sat, 24 Mar 2007 18:04:17 -0400, "Dee Flint"
> <deeflint01@comcast.net> wrote:
>
>>There are many fine
>>CB operators.  However the service has been trashed by the noticeable few.
>>All must then suffer the insults engendered by the few.
>
> Indeed they must.
>
> So what is your complaint?
>
> 73 de G3NYY
>
> --
> Walt Davidson                              Email: g3nyy @despammed.com

I'll have to ask you to read the entire thread for yourself.  I've no reason
or need to repeat everything.  However my complaint was that the original
article was derogatory towards both hams and CB operators.

Dee, N8UZE




From -1429769711896743861
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nntpserver.com!zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-
```

```
v0.1!not-for-mail
From: Mark@kb9rqz.org
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Sat, 24 Mar 2007 22:38:17 -0400
Message-ID: <74ob03pu5go45afsc9hnpd9ahpoahdv9ie@4ax.com>
References: <eu3clr$v5k$1@news.datemas.de>
<1174763256.095989.244440@n59g2000hsh.googlegroups.com>
<SLednYsey8C45ZjbnZ2dnUVZ_vKunZ2d@comcast.com>
<mghb0316siqi8435r2ffjbvvlmlvuvr90c@4ax.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 18
NNTP-Posting-Date: 25 Mar 2007 01:45:06 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com uk.radio.amateur:106072 rec.radio.amateur.misc:34621
rec.radio.amateur.homebrew:12760

On Sun, 25 Mar 2007 00:46:05 +0000, Walt Davidson
<g3nyy@despammed.com> wrote:

>On Sat, 24 Mar 2007 15:12:08 -0400, "Dee Flint"
><deeflint01@comcast.net> wrote:
>
>>I doubt he could get it past the moderators.  It is derogatory towards both
>>hams and CB operators.
>>
>>Dee, N8UZE
>
>When you say "moderators", ITYM "censors".  We do not have censorship
>in the United Kingdom ... yet.

you do in the the moderated NG hat was being reffered to
>
>73 de G3NYY
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From -5398123844897254811
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y66g2000hsf.googlegroups.com!not-for-
mail
From: "Mike Gathergood, G4KFK" <mike.gathergood@googlemail.com>
```

```
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: 25 Mar 2007 02:44:51 -0700
Organization: http://groups.google.com
Lines: 9
Message-ID: <1174815891.662466.310310@y66g2000hsf.googlegroups.com>
References: <eu3clr$v5k$1@news.datemas.de>
   <1174763256.095989.244440@n59g2000hsh.googlegroups.com>
   <SLednYsey8C45ZjbnZ2dnUVZ_vKunZ2d@comcast.com>
   <q14b035pi3pnakv4ig65bq5i2k5ogsis8g@4ax.com>
   <YrSdneL3Q8jjPZjbnZ2dnUVZ_qupnZ2d@comcast.com>
   <kjhb03tk5v5nteu5bh16dashd56rptsjd4@4ax.com>
   <5Mydnc1eT9_tUZjbnZ2dnUVZ_vOlnZ2d@comcast.com>
NNTP-Posting-Host: 82.0.190.39
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174815893 17514 127.0.0.1 (25 Mar 2007 09:44:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 25 Mar 2007 09:44:53 +0000 (UTC)
In-Reply-To: <5Mydnc1eT9_tUZjbnZ2dnUVZ_vOlnZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET
CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y66g2000hsf.googlegroups.com; posting-host=82.0.190.39;
   posting-account=fTcdIQ0AAAC07gA1BA9FOc-RumYX4ZMS
Xref: g2news1.google.com uk.radio.amateur:106087 rec.radio.amateur.misc:34723
rec.radio.amateur.homebrew:12761
```

On 25 Mar, 02:11, "Dee Flint" <deeflin...@comcast.net> wrote:

> I'll have to ask you to read the entire thread for yourself. I've no reason
> or need to repeat everything. However my complaint was that the original
> article was derogatory towards both hams and CB operators.

It would be difficult to find anybody that _hasn't_ been the target of
G4SDW's paranoid hatemail.

```
From 8922201233483116173
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!inka.de!rz.uni-
karlsruhe.de!morpheus.pingos.org!newsfeed.datemas.de!news.datemas.de!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Sun, 25 Mar 2007 11:29:33 +0100
```

Organization: Datemas.de http://www.datemas.de
Lines: 52
Message-ID: <eu5iuc$6ba$1@news.datemas.de>
References: <eu3clr$v5k$1@news.datemas.de>
<1174763256.095989.244440@n59g2000hsh.googlegroups.com>
X-Trace: news.datemas.de
+6mEbLLUDo2mNL3ZPyS5RmYyfWn3UsSq+6gAJXBvpkM0fcX0YQPNR8YIbL7LaNfOJk45/
OpKqdmkPqdnoQfDcT+dJPn8SxsydVPN9j6fa75f67rN4BUHMwpbaZQ4qjc4/3D2hoXY+qwvEWIGCQXwo9p
3iLdK1tD+VptzhU9C2tA=
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Sun, 25 Mar 2007 10:29:32 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:106092 rec.radio.amateur.misc:34724
rec.radio.amateur.homebrew:12762

I can best deal with the Childish Broadcast (CB) of
the rather silly and infantile child below by re-iterating one of
the threads of the past few days....

"On a daily basis, this NG is a forum seemingly
for escapees from the school playground, with
gratuitous and offensive personal remarks
originating from even those who have not
been part of a conversation and who could have
no reason, other than uncontrolled infantile
emotions, for interjecting as they do.

Is such public and international demonstrations really
the way forward; the way for PR for the future
of Ham Radio. I say, "No!".

I cannot see how something that is a technical pursuit
with traditions of gentlemanly behaviour could
possibly give way to the childish sneering that is
typical of this NG."

"AF6AY" <LenAnderson@ieee.org> wrote in message
news:1174763256.095989.244440@n59g2000hsh.googlegroups.com...
> On Mar 24, 6:30?am, "G.A.Evans G4SDW" <m...@privacy.net> wrote:
>> A necessary preface.....
>>
>> (It is becoming increasingly difficult to fly the flag for
>> decency and for civilised behaviour in Radio Hammery.
>> However, there still exists the fundamental basis on
>> which Ham Radio is based, and that will never die.
>>
>> This FAQ ("What Is _REAL_ Ham Radio?") will
>> be regularly published and will not be shouted or bullied
>> down. It is important that those of a technical bent, who

```
>> are the natural seed-corn of Radio Hammery and who
>> gravitate towards us to be the real novitiate, can
>> still find us, (and know that we are still here), their fellows.)
>
>   Evans, knock it off with this crossposting of pretentious
>   blabbering.  Try confining it to uk.radio.amateur or maybe
>   rec.radio.amateur.misc.  It doesn't belong in HOMEBREW
>   since it is nothing but YOUR OPINION...an opinion which
>   "we" have all heard for years with little variance in oratory.
>
>   If you are "serious" about this "FAQ" then go to the new
>   rec.radio.amateur.moderated and post.  If you dare.  :-(
>
>   AF6AY
>
>
```

```
From 5155014842809098716
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!
news.albasani.net!newsfeed.datemas.de!news.datemas.de!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Sun, 25 Mar 2007 11:52:51 +0100
Organization: Datemas.de http://www.datemas.de
Lines: 25
Message-ID: <eu5ka2$941$1@news.datemas.de>
References: <eu3clr$v5k$1@news.datemas.de>
<1174763256.095989.244440@n59g2000hsh.googlegroups.com>
<SLednYsey8C45ZjbnZ2dnUVZ_vKunZ2d@comcast.com>
X-Trace: news.datemas.de 3lJd2hBgRgdUfFNVy0kB22GHfU7npAu9ax7IuyMl+Q8/oTUOGNYF/
n9+4DcBLPFg6sH30kK0DfR1wFvH6MK2LzU5s5CXrVj5EAnUNzeApNVxvuGGRTySi6esW/
ku8r6mxkbTDrkKuZopmECu3aBKCnrxk0utZfHm9RCkGzeTiFc=
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Sun, 25 Mar 2007 10:52:50 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:106093 rec.radio.amateur.misc:34725
rec.radio.amateur.homebrew:12763
```

I disagree. it is very complimentary towards _REAL_ Radio

Hams. However, it if it is derogatory towards those
who are really no more than CBers-masquerading-as-Radio-Hams
(Possibly callsigns in the "N8" series fall into that category?)
then that is good.

Ham Radio is a technical pursuit for gentleman. Those who think
that they are Radio Hams but send their rigs back for repair are
"CBers-masquerading-as-Radio-Hams", no more, no less.

If you are one in that category, then I apologise that you were misled
into thinking that you are a Radio Ham by others who ought to
have known better. We have such others in Britland in the shape
of the RSCB, "The Radio Society for Citizens Band" an organisation
that provides premises for meetings of the British Citizens Band
Confederation.

"Dee Flint" <deeflint01@comcast.net> wrote in message
news:SLednYsey8C45ZjbnZ2dnUVZ_vKunZ2d@comcast.com...

> I doubt he could get it past the moderators. It is derogatory towards
> both hams and CB operators.
>
> Dee, N8UZE

```
From -927656903850027797
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l77g2000hsb.googlegroups.com!not-for-
mail
From: "Mike Gathergood, G4KFK" <mike.gathergood@googlemail.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: 25 Mar 2007 04:40:44 -0700
Organization: http://groups.google.com
Lines: 7
Message-ID: <1174822844.503487.178040@l77g2000hsb.googlegroups.com>
References: <eu3clr$v5k$1@news.datemas.de>
   <1174763256.095989.244440@n59g2000hsh.googlegroups.com>
   <eu5iuc$6ba$1@news.datemas.de>
NNTP-Posting-Host: 82.0.190.39
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174822845 15233 127.0.0.1 (25 Mar 2007 11:40:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 25 Mar 2007 11:40:45 +0000 (UTC)
In-Reply-To: <eu5iuc$6ba$1@news.datemas.de>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET
```

CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l77g2000hsb.googlegroups.com; posting-host=82.0.190.39;
   posting-account=fTcdIQ0AAAC07gA1BA9FOc-RumYX4ZMS
Xref: g2news1.google.com uk.radio.amateur:106098 rec.radio.amateur.misc:34726
rec.radio.amateur.homebrew:12764

On 25 Mar, 11:29, "G.A.Evans G4SDW" <m...@privacy.net> wrote:
> Is such public and international demonstrations really
> the way forward; the way for PR for the future
> of Ham Radio. I say, "No!".

Here is G4SDW's idea of PR for the hobby: http://archive.thisiswiltshire.co.uk/2005/03/10/91923.html

From 1155534283015231822
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!inka.de!rz.uni-
karlsruhe.de!morpheus.pingos.org!newsfeed.datemas.de!news.datemas.de!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Sun, 25 Mar 2007 13:12:55 +0100
Organization: Datemas.de http://www.datemas.de
Lines: 48
Message-ID: <eu5p06$ml4$1@news.datemas.de>
References: <eu3clr$v5k$1@news.datemas.de>
<1174763256.095989.244440@n59g2000hsh.googlegroups.com>
<eu5iuc$6ba$1@news.datemas.de>
<1174822844.503487.178040@l77g2000hsb.googlegroups.com>
X-Trace: news.datemas.de
MdW+w3SftkaSvVVK0uGuIK1KqDbfRWBCqFhjpKQf5V96QyRhaS5SRzMYpCwdnHqSbBFtmsG+zgmme2hS9p
LQj7L+ziVolxbFLoy3YpulakouNxMr26s6yLkn9Of7ZSWxUKaDZfGqxjmQnZ9Bi+uYGMAoSQ2MM64uyy6m
b5xBrqg=
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Sun, 25 Mar 2007 12:12:55 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:106101 rec.radio.amateur.misc:34728
rec.radio.amateur.homebrew:12765

Putting this into its correct perspective, this came about
as the result of a malicious and perjurous complaint made

by Brian Reay, M3OSN, and it is at Brian Reay's door (and now also the RSCB's door) that any complaints of Bad PR must be laid.

Brian Reay subjected me and my close family members to a campaign of harassment wherein he published repeated racially-aggravated pornographic emails to these NG. He maintained this campaign over a period exceeding two years. How his sick-minded obsession was ever relevant to Ham Radio and to these NG has never been established.

Having put up with this for an extended peiod, I then discovered that not only was Brian Reay a schoolteacher, but he was publishing his sick racially-aggravated pornographic emails whilst under training at a Girls' School.

I did no more than to assert the right of reply in defence when I asserted that no-one with such a sick-minded history of international publishing should be a school teacher UNDER ANY CIRCUMSTANCES.

I hold to that view today.

Brian Reay's infantile response to having the tables turned on him was to make a malicious and perjurous complaint to his fellow w*nkmasons to allege that I was harassing him rather than the oher way around which is obvious from the Google archive to this day.

Mike Gathergood is well aware of these facts, but it must be apparent to many of you from the way he hangs around every posting of mine that he is also a sick-minded obsessive. best ignored.

"Mike Gathergood, G4KFK" <mike.gathergood@googlemail.com> wrote in message
news:1174822844.503487.178040@l77g2000hsb.googlegroups.com...
> On 25 Mar, 11:29, "G.A.Evans G4SDW" <m...@privacy.net> wrote:
>> Is such public and international demonstrations really
>> the way forward; the way for PR for the future
>> of Ham Radio. I say, "No!".
>
> Here is G4SDW's idea of PR for the hobby:
> http://archive.thisiswiltshire.co.uk/2005/03/10/91923.html
>

From 4070703023549005079
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Thread: f5254,9b3426f7c31a71c2,start

```
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,gidf5254,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.germany.com!newsfeed.datemas.de!
news.datemas.de!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups:
uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew,uk.local.kent
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Sun, 25 Mar 2007 13:18:09 +0100
Organization: Datemas.de http://www.datemas.de
Lines: 20
Message-ID: <eu5pa0$nnl$1@news.datemas.de>
References: <eu3clr$v5k$1@news.datemas.de>
<1174763256.095989.244440@n59g2000hsh.googlegroups.com>
<eu5iuc$6ba$1@news.datemas.de>
<1174822844.503487.178040@l77g2000hsb.googlegroups.com>
<eu5p06$ml4$1@news.datemas.de>
X-Trace: news.datemas.de Bwv0e++Iia/
AuT28YqdrqVvNZUNheaVL+h14og+E53pJkpe7i4lXtT+6Sg9va+o5+CWWHHZNv2ELpqx40L5kf+WnKywL1
KCH9pXz0CGwcC92apGAIvWiYgbLYsMh8mroHOIy94lUXykQhtPv0+SAfOsyNZDmcl/
2cXcnqwPVBaosO+jrnqIrSw==
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Sun, 25 Mar 2007 12:18:09 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:106102 rec.radio.amateur.misc:34729
rec.radio.amateur.homebrew:12766 uk.local.kent:21748
```

I have not been able to establish the name and address of the school in Strood, Kent, where he teaches.

I would be grateful if anyone can furnish this information,so that I can make representations supported by evidence to the governors to seek that Brian Reay be dismissed because of his history of racially-aggravated pornographic publishing.

"G.A.Evans G4SDW" <me@privacy.net> wrote in message
news:eu5p06$ml4$1@news.datemas.de...

> I did no more than to assert the right of reply in defence when I
> asserted that no-one with such a sick-minded history of
> international publishing should be a school teacher UNDER
> ANY CIRCUMSTANCES.
>
> I hold to that view today.
>

From 8250158185080499494
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: Mark@kb9rqz.org
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Sun, 25 Mar 2007 11:35:04 -0400
Message-ID: <vj5d03hqdra7k060bvbnjpred93h0upec9@4ax.com>
References: <eu3clr$v5k$1@news.datemas.de>
<1174763256.095989.244440@n59g2000hsh.googlegroups.com>
<SLednYsey8C45ZjbnZ2dnUVZ_vKunZ2d@comcast.com>
<q14b035pi3pnakv4ig65bq5i2k5ogsis8g@4ax.com>
<YrSdneL3Q8jjPZjbnZ2dnUVZ_qupnZ2d@comcast.com>
<kjhb03tk5v5nteu5bh16dashd56rptsjd4@4ax.com>
<5Mydnc1eT9_tUZjbnZ2dnUVZ_vOlnZ2d@comcast.com>
<1174815891.662466.310310@y66g2000hsf.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 20
NNTP-Posting-Date: 25 Mar 2007 14:41:52 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com uk.radio.amateur:106116 rec.radio.amateur.misc:34743
rec.radio.amateur.homebrew:12767

On 25 Mar 2007 02:44:51 -0700, "Mike Gathergood, G4KFK"
<mike.gathergood@googlemail.com> wrote:

>On 25 Mar, 02:11, "Dee Flint" <deeflin...@comcast.net> wrote:
>> I'll have to ask you to read the entire thread for yourself. I've no reason
>> or need to repeat everything. However my complaint was that the original
>> article was derogatory towards both hams and CB operators.
>
>It would be difficult to find anybody that _hasn't_ been the target of
>G4SDW's paranoid hatemail.
>

does that ever include hismself I wonder he uses so many socks pupet
as we yanks call them, he may have gotten confused

http://kb9rqz.blogspot.com/2007/01/new-year.html
stealing data from my wifes accounts is unaccaptable
Dloyd Lavies renagade cyber theif and terroist

--

Posted via a free Usenet account from http://www.teranews.com

```
From -7621879897515491310
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.germany.com!feeder.news-
service.com!feeder2.cambrium.nl!feeder1.cambrium.nl!feed.tweaknews.nl!
news2.euro.net!66.150.105.54.MISMATCH!nntpserver.com!zeus.nntpserver.com!
10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: Mark@kb9rqz.org
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Sun, 25 Mar 2007 11:35:57 -0400
Message-ID: <kl5d03545fdmdh7kbhvp62badkrc2pq05a@4ax.com>
References: <eu3clr$v5k$1@news.datemas.de>
<1174763256.095989.244440@n59g2000hsh.googlegroups.com>
<SLednYsey8C45ZjbnZ2dnUVZ_vKunZ2d@comcast.com> <eu5ka2$941$1@news.datemas.de>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 14
NNTP-Posting-Date: 25 Mar 2007 14:42:45 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com uk.radio.amateur:106117 rec.radio.amateur.misc:34744
rec.radio.amateur.homebrew:12768
```

On Sun, 25 Mar 2007 11:52:51 +0100, "G.A.Evans G4SDW" <me@privacy.net>
wrote:

>I disagree. it is very complimentary towards _REAL_ Radio
>Hams.

I use this the most against anothertarget but it fits you too Only in
your dreams

http://kb9rqz.blogspot.com/2007/01/new-year.html
stealing data from my wifes accounts is unaccaptable
Dloyd Lavies renagade cyber theif and terroist

--
Posted via a free Usenet account from http://www.teranews.com

From -8626761062333793422

```
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.germany.com!multikabel.net!
feed20.multikabel.net!news2.euro.net!62.253.162.218.MISMATCH!news-in.ntli.net!
newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe4-win.ntli.net.POSTED!53ab2750!not-for-mail
From: Leigh <notavalidemailaddress@yahoo.co.uk>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
References: <eu3clr$v5k$1@news.datemas.de>
<1174763256.095989.244440@n59g2000hsh.googlegroups.com>
<SLednYsey8C45ZjbnZ2dnUVZ_vKunZ2d@comcast.com> <eu5ka2$941$1@news.datemas.de>
In-Reply-To: <eu5ka2$941$1@news.datemas.de>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 10
Message-ID: <jHwNh.8030$F82.3142@newsfe4-win.ntli.net>
Date: Sun, 25 Mar 2007 15:37:51 GMT
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X-Complaints-To: http://www.ntlworld.com/netreport
X-Trace: newsfe4-win.ntli.net 1174837071 80.7.178.99 (Sun, 25 Mar 2007 16:37:51
BST)
NNTP-Posting-Date: Sun, 25 Mar 2007 16:37:51 BST
Organization: ntl Cablemodem News Service
Xref: g2news1.google.com uk.radio.amateur:106118 rec.radio.amateur.misc:34746
rec.radio.amateur.homebrew:12769
```

G.A.Evans G4SDW wrote:

> Ham Radio is a technical pursuit for gentleman. Those who think
> that they are Radio Hams but send their rigs back for repair are
> "CBers-masquerading-as-Radio-Hams", no more, no less.

But with today's microprocessor, DSP and firmware laiden transceivers,
would repair be both possible and cost-effective once the radio amateur
has purchased a SMD rework station and expensive test gear, etc, that
would only be used for the one repair, etc?

```
From 7796058351785961107
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: Mark@kb9rqz.org
```

```
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Sun, 25 Mar 2007 11:44:35 -0400
Message-ID: <p46d03l76kcutgiflpm5feojn55e45elil@4ax.com>
References: <eu3clr$v5k$1@news.datemas.de>
<1174763256.095989.244440@n59g2000hsh.googlegroups.com>
<SLednYsey8C45ZjbnZ2dnUVZ_vKunZ2d@comcast.com> <eu5ka2$941$1@news.datemas.de>
<jHwNh.8030$F82.3142@newsfe4-win.ntli.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 24
NNTP-Posting-Date: 25 Mar 2007 14:51:23 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com uk.radio.amateur:106119 rec.radio.amateur.misc:34749
rec.radio.amateur.homebrew:12770

On Sun, 25 Mar 2007 15:37:51 GMT, Leigh
<notavalidemailaddress@yahoo.co.uk> wrote:

>G.A.Evans G4SDW wrote:
>
>> Ham Radio is a technical pursuit for gentleman. Those who think
>> that they are Radio Hams but send their rigs back for repair are
>> "CBers-masquerading-as-Radio-Hams", no more, no less.
>
>But with today's microprocessor, DSP and firmware laiden transceivers,
>would repair be both possible and cost-effective once the radio amateur
>has purchased a SMD rework station and expensive test gear, etc, that
>would only be used for the one repair, etc?
cost effective does not matter to these types  it is like the code
wars themsleves one can not even the ask the question of cost
effectiveness or anything but follow along in the Archaici Radio
Service




http://kb9rqz.blogspot.com/2007/01/new-year.html
stealing data from my wifes accounts is unaccaptable
Dloyd Lavies renagade cyber theif and terroist

--
Posted via a free Usenet account from http://www.teranews.com




From -4215856303803671763
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
```

X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!news-out.ntli.net!newsrout1-gui.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!newsfe3-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Brian Reay" <see@website.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <eu3clr$v5k$1@news.datemas.de> <1174763256.095989.244440@n59g2000hsh.googlegroups.com> <SLednYsey8C45ZjbnZ2dnUVZ_vKunZ2d@comcast.com> <eu5ka2$941$1@news.datemas.de> <jHwNh.8030$F82.3142@newsfe4-win.ntli.net>
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Lines: 38
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <uYwNh.4739$j_2.2308@newsfe3-gui.ntli.net>
Date: Sun, 25 Mar 2007 15:56:10 GMT
NNTP-Posting-Host: 82.26.30.44
X-Complaints-To: http://www.virgin.net/netreport
X-Trace: newsfe3-gui.ntli.net 1174838170 82.26.30.44 (Sun, 25 Mar 2007 16:56:10 BST)
NNTP-Posting-Date: Sun, 25 Mar 2007 16:56:10 BST
Organization: Virgin Net Usenet Service
Xref: g2news1.google.com uk.radio.amateur:106120 rec.radio.amateur.misc:34752 rec.radio.amateur.homebrew:12771

"Leigh" <notavalidemailaddress@yahoo.co.uk> wrote in message news:jHwNh.8030$F82.3142@newsfe4-win.ntli.net...

> But with today's microprocessor, DSP and firmware laiden transceivers,
> would repair be both possible and cost-effective once the radio amateur
> has purchased a SMD rework station and expensive test gear, etc, that
> would only be used for the one repair, etc?

I've done surface mount repairs and /or modifications in the past without a SMD rework station so it can be done. I find it a bit more difficult now due to poor dexterity in my hand but, while I'd not take on a repair for someone else (in case it goes pear shaped), I'd probably have a try on some thing of my own- unless it was very high in value. I've picked up one of those illuminated magnifying lenses and, with practice, you can solder SMD stuff while looking through that. The key thing, assuming you want to replace a component, is to get it off the PCB without damaging the pads. For a multi-legged beast, you can snip the legs and remove them one at a time. A bit of heat on the body of the package will help if there is any glue under it. Ball grid arrays are more of a problem.

As regards the DSP side, if that goes bad the repair is probably more hardware related (ie a bad component) so the firmware doesn't really come into it. I've not checked, but some of the DSP radios may well use one of the "off the shelf" DSP devices that you can get the development environment for. If so, you could write your own code- assuming you Know what you are doing.

--
73
Brian, G8OSN
www.g8osn.org.uk

Now your amateur licence is free, why not send at least �15 per year to support the
Radio Communications Foundation or STELAR?

From 1271806988862629575
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news.germany.com!feed20.multikabel.net!multikabel.net!feed10.multikabel.net!hwmnpeer01.ams!news-out.ntli.net!newsrout1-gui.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!newsfe3-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Brian Reay" <see@website.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <eu3clr$v5k$1@news.datemas.de>
<1174763256.095989.244440@n59g2000hsh.googlegroups.com>
<SLednYsey8C45ZjbnZ2dnUVZ_vKunZ2d@comcast.com> <eu5ka2$941$1@news.datemas.de>
<jHwNh.8030$F82.3142@newsfe4-win.ntli.net>
<p46d03l76kcutgiflpm5feojn55e45elil@4ax.com>
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <G%wNh.4744$j_2.235@newsfe3-gui.ntli.net>
Date: Sun, 25 Mar 2007 15:59:34 GMT
NNTP-Posting-Host: 82.26.30.44
X-Complaints-To: http://www.virgin.net/netreport
X-Trace: newsfe3-gui.ntli.net 1174838374 82.26.30.44 (Sun, 25 Mar 2007 16:59:34 BST)
NNTP-Posting-Date: Sun, 25 Mar 2007 16:59:34 BST
Organization: Virgin Net Usenet Service
Xref: g2news1.google.com uk.radio.amateur:106122 rec.radio.amateur.misc:34753 rec.radio.amateur.homebrew:12772

<Mark@kb9rqz.org> wrote in message

news:p46d03l76kcutgiflpm5feojn55e45elil@4ax.com...
 > cost effective does not matter to these types

That is a bit unkind Mark. Not all amateurs can afford to scrap radios that, in real terms, are beyond economic repair. Equally, "fixing it" is more fun than buying a new one, or maybe paying someone else to fix it.

--
73
Brian, G8OSN
www.g8osn.org.uk

Now your amateur licence is free, why not send at least �15 per year to
support the
Radio Communications Foundation or STELAR?

```
From 7131142977338075132
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.germany.com!multikabel.net!
feed20.multikabel.net!news2.euro.net!62.253.162.218.MISMATCH!news-in.ntli.net!
newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe1-win.ntli.net.POSTED!53ab2750!not-for-mail
From: Leigh <notavalidemailaddress@yahoo.co.uk>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
References: <eu3clr$v5k$1@news.datemas.de>
<1174763256.095989.244440@n59g2000hsh.googlegroups.com>
<SLednYsey8C45ZjbnZ2dnUVZ_vKunZ2d@comcast.com> <eu5ka2$941$1@news.datemas.de>
<jHwNh.8030$F82.3142@newsfe4-win.ntli.net> <uYwNh.4739$j_2.2308@newsfe3-
gui.ntli.net>
In-Reply-To: <uYwNh.4739$j_2.2308@newsfe3-gui.ntli.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 22
Message-ID: <42xNh.9199$Kk5.673@newsfe1-win.ntli.net>
Date: Sun, 25 Mar 2007 16:02:08 GMT
NNTP-Posting-Host: 80.7.178.99
X-Complaints-To: http://www.ntlworld.com/netreport
X-Trace: newsfe1-win.ntli.net 1174838528 80.7.178.99 (Sun, 25 Mar 2007 17:02:08
BST)
NNTP-Posting-Date: Sun, 25 Mar 2007 17:02:08 BST
Organization: ntl Cablemodem News Service
Xref: g2news1.google.com uk.radio.amateur:106123 rec.radio.amateur.misc:34754
rec.radio.amateur.homebrew:12773
```

Brian Reay wrote:

Comments noted Brian, especially when I think back to the repairs and modifcations I used to do with analogue satellite receivers both for SAT TV and ATV use. Just need a steady hand and fine tip and plenty of patience.

> As regards the DSP side, if that goes bad the repair is probably more hardware related (ie a bad component) so the firmware doesn't really come into it. I've not checked, but some of the DSP radios may well use one of the "off the shelf" DSP devices that you can get the development environment for. If so, you could write your own code- assuming you Know what you are doing.

Fortunately I prefer non-DSP radios and ones where I can effect a simple repair - especially Icom 735 and Yaesu FT747 - simple and reliable sets and very flexible and forgiving with non-fancy aerial systems unlike some modern sets that 'freak out' when a high SWR is presented.

Thinking of adding DSP to the 747 sometime or maybe trying a PC based real-time solution.

Leigh...

From -1070122910534606716
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newshub.sdsu.edu!nntpserver.com!zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: Mark@kb9rqz.org
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Sun, 25 Mar 2007 12:10:59 -0400
Message-ID: <qi7d035eojrkkjpsojcsfpbbav5sm1gff7@4ax.com>
References: <eu3clr$v5k$1@news.datemas.de> <1174763256.095989.244440@n59g2000hsh.googlegroups.com> <SLednYsey8C45ZjbnZ2dnUVZ_vKunZ2d@comcast.com> <eu5ka2$941$1@news.datemas.de> <jHwNh.8030$F82.3142@newsfe4-win.ntli.net> <p46d03l76kcutgiflpm5feojn55e45elil@4ax.com> <G%wNh.4744$j_2.235@newsfe3-gui.ntli.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 27
NNTP-Posting-Date: 25 Mar 2007 15:17:59 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com uk.radio.amateur:106125 rec.radio.amateur.misc:34755 rec.radio.amateur.homebrew:12774

On Sun, 25 Mar 2007 15:59:34 GMT, "Brian Reay" <see@website.invalid>
wrote:

>
><Mark@kb9rqz.org> wrote in message
>news:p46d03l76kcutgiflpm5feojn55e45elil@4ax.com...
> > cost effective does not matter to these types
>
>That is a bit unkind Mark.
how so?
> Not all amateurs can afford to scrap radios that,
>in real terms, are beyond economic repair.
indeed but I must since you are bring this up did read any of the
context?

the refernce to cost effective had noth what to do with the price of
gear but the price of human effort in licesenure

> Equally, "fixing it" is more fun
>than buying a new one, or maybe paying someone else to fix it.

http://kb9rqz.blogspot.com/2007/01/new-year.html
stealing data from my wifes accounts is unaccaptable
Dloyd Lavies renagade cyber theif and terroist

--
Posted via a free Usenet account from http://www.teranews.com

From 3408414970551931777
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news.germany.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!news-in.ntli.net!newsrout1-
win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!newsfe7-
gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Brian Reay" <see@website.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <eu3clr$v5k$1@news.datemas.de>
<1174763256.095989.244440@n59g2000hsh.googlegroups.com>
<SLednYsey8C45ZjbnZ2dnUVZ_vKunZ2d@comcast.com> <eu5ka2$941$1@news.datemas.de>
<jHwNh.8030$F82.3142@newsfe4-win.ntli.net> <uYwNh.4739$j_2.2308@newsfe3-
gui.ntli.net> <42xNh.9199$Kk5.673@newsfe1-win.ntli.net>
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Lines: 44

X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <tbxNh.26757$Lz4.2669@newsfe7-gui.ntli.net>
Date: Sun, 25 Mar 2007 16:12:09 GMT
NNTP-Posting-Host: 82.26.30.44
X-Complaints-To: http://www.virgin.net/netreport
X-Trace: newsfe7-gui.ntli.net 1174839129 82.26.30.44 (Sun, 25 Mar 2007 17:12:09 BST)
NNTP-Posting-Date: Sun, 25 Mar 2007 17:12:09 BST
Organization: Virgin Net Usenet Service
Xref: g2news1.google.com uk.radio.amateur:106126 rec.radio.amateur.misc:34756 rec.radio.amateur.homebrew:12775

"Leigh" <notavalidemailaddress@yahoo.co.uk> wrote in message news:42xNh.9199$Kk5.673@newsfe1-win.ntli.net...
> Brian Reay wrote:
>
> Comments noted Brian, especially when I think back to the repairs and
> modifcations I used to do with analogue satellite receivers both for SAT
> TV and ATV use. Just need a steady hand and fine tip and plenty of
> patience.
>
>> As regards the DSP side, if that goes bad the repair is probably more
>> hardware related (ie a bad component) so the firmware doesn't really come
>> into it. I've not checked, but some of the DSP radios may well use one
>> of the "off the shelf" DSP devices that you can get the development
>> environment for. If so, you could write your own code- assuming you Know
>> what you are doing.
>
> Fortunately I prefer non-DSP radios and ones where I can effect a simple
> repair - especially Icom 735 and Yaesu FT747 - simple and reliable sets
> and very flexible and forgiving with non-fancy aerial systems unlike some
> modern sets that 'freak out' when a high SWR is presented.
>

Will, the IC756ProIII is a dream and works fine with a simple end fed for
general HF use and a reduced size loaded dipole for 5MHz.

> Thinking of adding DSP to the 747 sometime or maybe trying a PC based
> real-time solution.

The SDR is a good place to start with this type of thing, there is a wealth
of material around and lots of people experimenting.

Personally, I like a radio with a proper front panel, with knobs you tweak,
switches you push etc.

--
73
Brian, G8OSN

www.g8osn.org.uk

Now your amateur licence is free, why not send at least �15 per year to
support the
Radio Communications Foundation or STELAR?

```
From -2208722368701506457
X-Google-Thread: fc2a5,20eab0aaba2192ab,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!b75g2000hsg.googlegroups.com!not-for-
mail
From: btadeyl001@hotmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Anyone used the SA607 or SA608 chips?
Date: 25 Mar 2007 19:08:12 -0700
Organization: http://groups.google.com
Lines: 27
Message-ID: <1174874892.449600.187540@b75g2000hsg.googlegroups.com>
NNTP-Posting-Host: 138.88.248.70
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174874894 21663 127.0.0.1 (26 Mar 2007 02:08:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 26 Mar 2007 02:08:14 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; AT&T CSM6.0;
AT&T CSM7.0),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b75g2000hsg.googlegroups.com; posting-host=138.88.248.70;
   posting-account=nuh58A0AAABnj1rOxDMxQSzcUkS-Ga_I
Xref: g2news1.google.com rec.radio.amateur.homebrew:12776
```

There is surprising little anecdotal information on the web/usenet
about the SA607 or SA608 receiver chips. These are similar to the
SA605, but run from 2.7-7.0V and have buffered limited output and
RSSI's. Has anyone use either of these chips? And if so, can they tell
me:

1) How does the SA607/8 performance compared to the SA605 when both
are run from a 5V supply? The datasheets show the SA607/8 performing
worse (SINAD of -117dBm as opposed to -120dBm for the SA605), but
'07/8 are running from 3V while the '05 is running from 6V so it is
not a fair comparison.

2) The only difference between the SA607 and SA608 is the later
exposes the RSSI buffer amplifier feedback. What it the point of
making two different products just for this reason? Is it used to
adjust the gain (but this is a buffer amplifier?!)

3) Can anyone tell me what the output looks like of the SA607/8 at pin 9 or 11 (limiter output), meaning, the minimum and maximum voltagea of the 455kHz square wave when there is a strong RF signal output?

It amazes me that about seven analog receiver chips in the SA line are still offered by Phillips (and in-stock at Digikey no less) where so many other companies have discontinued theirs.

Ben

```
From 7785119363732580152
X-Google-Thread: fc2a5,274901f6fe0db389,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o5g2000hsb.googlegroups.com!not-for-
mail
From: "ungvichian" <ungvichian@thaimail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Converting AM signal to FM signal
Date: 26 Mar 2007 00:11:59 -0700
Organization: http://groups.google.com
Lines: 11
Message-ID: <1174893119.187241.117880@o5g2000hsb.googlegroups.com>
NNTP-Posting-Host: 161.200.255.162
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174893120 10845 127.0.0.1 (26 Mar 2007 07:12:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 26 Mar 2007 07:12:00 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; .NET CLR
1.0.3705; MEGAUPLOAD 1.0),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o5g2000hsb.googlegroups.com; posting-host=161.200.255.162;
   posting-account=0rYhVgwAAAA-O4Cy8A_vZHWxsuEpc_Qx
Xref: g2news1.google.com rec.radio.amateur.homebrew:12777
```

I've seen tons of posts about converting FM signals to AM signals (say, to use with an AM only vintage car radio). But I haven't seen anything about the inverse: converting an AM signal to an FM signal (because there are quite a few FM-only devices on the market now, such as MP3 players). I found this: http://www.uashem.com/pageid-259.html , but it doesn't really fit my criteria. I'd like to be able to tune in any AM station, and then select the frequency to output it to without interfering with other station (think iPod transmitter).

Surely there's gotta be some out there...

```
From 5744378611129000449
```

X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!
news.albasani.net!newsfeed.datemas.de!news.datemas.de!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Mon, 26 Mar 2007 09:16:45 +0100
Organization: Datemas.de http://www.datemas.de
Lines: 61
Message-ID: <eu7vhb$npc$1@news.datemas.de>
References: <eu3clr$v5k$1@news.datemas.de>
<1174763256.095989.244440@n59g2000hsh.googlegroups.com>
<SLednYsey8C45ZjbnZ2dnUVZ_vKunZ2d@comcast.com> <eu5ka2$941$1@news.datemas.de>
<jHwNh.8030$F82.3142@newsfe4-win.ntli.net>
X-Trace: news.datemas.de bN0Y7y/
0aZtUpyi7z9o+DfUXEXBCMaAQ7ks30cK10zWks3epNXvsOf2au+cf2ayHtFMBdFjGgsDvMTm/hEVq1r/
F9kMt8PbMDqYPuLAhdKvn5v7LlSvLkSFA6g8PObRW5vGBHZfJeez2wJEc+8YOvfBpJu7qX9Gr9/4X79JkU
dTlMfpfc1d+NA==
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Mon, 26 Mar 2007 08:16:43 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:106174 rec.radio.amateur.misc:34803
rec.radio.amateur.homebrew:12778

Expensive test gear?

Most useful is a magnifying glass to look for dry joints
I'd estimate that 90% of rigs given to me to repair
are resolved by optical examination followed by solder
re-flowing.

Soldering irons - to the bottom of one of your smaller bits,
attach a chocolate box connector (& remove the plastic
covering before it melts and fills the shack with toxic fumes!)

To the other half of the chocolate box connector, attach a
range of obscure "bits" of metal that you've fashioned to deal
with the various SMD shapes. Most Useful is an old Henley
"Solon" bit that has a slot filed in it to sit either side of an
SMD R or C.

"SMD rework station"??? Fashion from bits left over from
your Mecaano set - create an overarm with a spring loaded
plunger to bear down onto the component to prevent

tombstoning. Working end of plunger to be wooden, cocktail
stick or chopstick serves nicely. Sacrificial 'cos slowly
burns away. Only once had a problem with resins oozing
out from wood.

Come on, chaps, this is simple mechanical bodging, a trivial
matter for any self-respecting _REAL_ Radio Ham!
(Unless you fail to secure your PCB before rework,
it ain't "Rock It" Science :-))

"Only used for the one repair"??? Is that a CBer talking? Surely
the essence of _REAL_ Ham Radio is that you're using this
type of equipment all the time? (Not true for a CBer-masquerading-
as-a-Radio-Ham, though!)

"today's microprocessor, DSP and firmware laiden transceivers"? All
REAL Radio Hams thrive on how thing work and how to modify
them!

Indeed, if you're a _REAL_ Radio Ham, then your transceiver will
have been designed, constructed and modified by you, so the
" microprocessor, DSP and firmware" will be your design anyway and
therefore not a problem.

"laiden"????? ITYM "laden". I'd advise you not to seek a job in education
because of that!

"Leigh" <notavalidemailaddress@yahoo.co.uk> wrote in message
news:jHwNh.8030$F82.3142@newsfe4-win.ntli.net...
> G.A.Evans G4SDW wrote:
>
>> Ham Radio is a technical pursuit for gentleman. Those who think
>> that they are Radio Hams but send their rigs back for repair are
>> "CBers-masquerading-as-Radio-Hams", no more, no less.
>
> But with today's microprocessor, DSP and firmware laiden transceivers,
> would repair be both possible and cost-effective once the radio amateur
> has purchased a SMD rework station and expensive test gear, etc, that
> would only be used for the one repair, etc?

From 6822477197477205008
X-Google-Thread: fc2a5,274901f6fe0db389
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!peer-uk.news.demon.net!
kibo.news.demon.net!mutlu.news.demon.net!news.demon.co.uk!demon!g3ohx.demon.co.uk!
IanJacksonRemoveThisBit
From: Ian Jackson <IanJacksonRemoveThisBit@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Re: Converting AM signal to FM signal
Date: Mon, 26 Mar 2007 09:45:49 +0100
Lines: 26
Message-ID: <ZnTlROH9g4BGFwrt@g3ohx.demon.co.uk>
References: <1174893119.187241.117880@o5g2000hsb.googlegroups.com>
Reply-To: Ian Jackson <IanJackson@REMOVE-THIS-BITg3ohx.demon.co.uk>
NNTP-Posting-Host: g3ohx.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1174898758 16799 80.176.138.122 (26 Mar 2007 08:45:58
GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Mon, 26 Mar 2007 08:45:58 +0000 (UTC)
User-Agent: Turnpike/6.02-S (<TJ0VKlySlxi7kGP8bkzInRG7RW>)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12779

In message <1174893119.187241.117880@o5g2000hsb.googlegroups.com>,
ungvichian <ungvichian@thaimail.com> writes
>I've seen tons of posts about converting FM signals to AM signals
>(say, to use with an AM only vintage car radio). But I haven't seen
>anything about the inverse: converting an AM signal to an FM signal
>(because there are quite a few FM-only devices on the market now, such
>as MP3 players). I found this: http://www.uashem.com/pageid-259.html ,
>but it doesn't really fit my criteria. I'd like to be able to tune in
>any AM station, and then select the frequency to output it to without
>interfering with other station (think iPod transmitter).
>
>Surely there's gotta be some out there...
>

Presumably you are thinking about a transmitter like this?
http://www.techfocus.co.uk/iTrip-FM-Transmitters/TFM07.htm
I bought one last week, and it seems to work OK.

I don't think that you can really convert AM to FM in a controlled way,
without going to baseband audio first. I reckon that the regen circuit
you found relies more on 'act of God' or 'green fingers (thumbs)' than
science.

Ian.
--




From 1032424321882042964
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!
news.albasani.net!newsfeed.datemas.de!news.datemas.de!not-for-mail
```

From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Mon, 26 Mar 2007 09:54:48 +0100
Organization: Datemas.de http://www.datemas.de
Lines: 24
Message-ID: <eu81on$r47$1@news.datemas.de>
References: <eu3clr$v5k$1@news.datemas.de>
<1174763256.095989.244440@n59g2000hsh.googlegroups.com>
<SLednYsey8C45ZjbnZ2dnUVZ_vKunZ2d@comcast.com> <eu5ka2$941$1@news.datemas.de>
<jHwNh.8030$F82.3142@newsfe4-win.ntli.net> <uYwNh.4739$j_2.2308@newsfe3-gui.ntli.net>
X-Trace: news.datemas.de 5UbU9IhFjHH89KyrYRoJIyWjrBiPLOaof3/dydQYe7eOW2f/6XLBdYUSdzYzVowRMVVyr1zPTa6SiDHHRfOv/TU9vfxAR3cI+QQ0bbhcjuMIq0l/TppNrzbhZE1ybkG/0Sxra8Ly2DKNbjIIv7QYesFDC+ecz859nGuh27yVZBEYl62cXMnk2w==
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Mon, 26 Mar 2007 08:54:47 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:106179 rec.radio.amateur.misc:34805 rec.radio.amateur.homebrew:12780

There's that vacuous sneering about "Big K" again,
slipped in on the penultimate line!

You really are a stupid boy, Brian, and your ongoing public
display of playground behaviour continues to render you
unsuitable to be employed in a school IN ANY CAPACITY.

I have no doubt that your KS3 pupils whom you invoke
time and time again show a greater degree of maturity than
do you.

Grow up, OM.

"Brian Reay" <see@website.invalid> wrote in message
news:uYwNh.4739$j_2.2308@newsfe3-gui.ntli.net...
>
> As regards the DSP side, if that goes bad the repair is probably more
> hardware related (ie a bad component) so the firmware doesn't really come
> into it. I've not checked, but some of the DSP radios may well use one of
> the "off the shelf" DSP devices that you can get the development
> environment for. If so, you could write your own code- assuming you Know
> what you are doing.

From 6411231606218663739
X-Google-Thread: f64c6,37763690cca2000a

X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.germany.com!newsfeed.datemas.de!news.datemas.de!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Mon, 26 Mar 2007 10:17:11 +0100
Organization: Datemas.de http://www.datemas.de
Lines: 50
Message-ID: <eu832l$tcl$1@news.datemas.de>
References: <eu3clr$v5k$1@news.datemas.de>
<1174763256.095989.244440@n59g2000hsh.googlegroups.com>
<eu5iuc$6ba$1@news.datemas.de>
<1174844973.655372.65070@n76g2000hsh.googlegroups.com>
<eu7vkv$o0r$1@news.datemas.de>
X-Trace: news.datemas.de
psDiwSxV2rQj8NhfYEHAU4jZbkfWVWyP6lKbinH5e+Q5szz7pTVnnyyUQc2wM+j1RafrPxdfDFf3nfpk3K
3NspiLYCN1DKw7FT4lamUQsFklj/m3cp7hG7OnRUW4jaE3qEgw9nH9uFfjBh6z8q5Oh6GsWT0A+/
bukDXUndGPwXg=
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Mon, 26 Mar 2007 09:17:09 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:106183 rec.radio.amateur.misc:34806
rec.radio.amateur.homebrew:12781

Repeated 'cos circulation list was sabotaged!

"G.A.Evans G4SDW" <me@privacy.net> wrote in message
news:eu7vkv$o0r$1@news.datemas.de...
>I can best deal with the Childish Broadcast (CB) of
> the rather silly and infantile child below by re-iterating one of
> the threads of the past few days....
>
> "On a daily basis, this NG is a forum seemingly
> for escapees from the school playground, with
> gratuitous and offensive personal remarks
> originating from even those who have not
> been part of a conversation and who could have
> no reason, other than uncontrolled infantile
> emotions, for interjecting as they do.
>
> Is such public and international demonstrations really
> the way forward; the way for PR for the future
> of Ham Radio. I say, "No!".
>
> I cannot see how something that is a technical pursuit

```
> with traditions of gentlemanly behaviour could
> possibly give way to the childish sneering that is
> typical of this NG."
>
>
> "AF6AY" <LenAnderson@ieee.org> wrote in message
> news:1174844973.655372.65070@n76g2000hsh.googlegroups.com...
> On Mar 25, 2:29?am, "G.A.Evans G4SDW" <m...@privacy.net> wrote:
>> I can best deal with the Childish Broadcast (CB) of
>> the rather silly and infantile child below by re-iterating one of
>> the threads of the past few days....
>
>   Knock it off, Evans.  You made your point a couple years
>   ago yet you keep on repeating it in RRAH.  Okay, you GOT
>   ATTENTION.  It is a lot less painful than getting a boot in
>   the face from a bobby while you were being placed under
>   arrest...as you were in the past.
>
>   Len Anderson  AF6AY
>
>   LenAnderson@ieee.org
>   AF6AY@arrl.org
>   ex-RA16408336, SSgt USA (1952-1960)
>
>
>
>




From 5267235047500403200
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!inka.de!rz.uni-
karlsruhe.de!morpheus.pingos.org!newsfeed.datemas.de!news.datemas.de!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Mon, 26 Mar 2007 10:25:31 +0100
Organization: Datemas.de http://www.datemas.de
Lines: 15
Message-ID: <eu83i9$uri$1@news.datemas.de>
References: <eu3clr$v5k$1@news.datemas.de>
<1174763256.095989.244440@n59g2000hsh.googlegroups.com>
X-Trace: news.datemas.de 3QXDT62e3hmeHd5AoQDvt/
tvLiTLP9PccimsahqAkIbI+4ne2vwcCoVoZd5ucfgVMBQ/
fXVbFoeObB7a+i5rBYqqecFuBAT21PP2m7+qlU+Fj0xbfN6FP7of8hveJag+PZxFwIehdQfKqU0oxweNAS
flpx58FZpwXtcwnDocrl4=
```

X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Mon, 26 Mar 2007 09:25:29 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:106184 rec.radio.amateur.misc:34807
rec.radio.amateur.homebrew:12782

Au contraire! HOMEBREW is possibly the last
bastion of _REAL_ Ham Radio to be found
anywhere on Usenet, and therefore the place
to which intending like-minders will turn.

Therefore, rec.radio.amateur.homebrew is the
IDEAL newsgroup to which the FAQ should not
only be posted, but regularly so!

"AF6AY" <LenAnderson@ieee.org> wrote in message
news:1174763256.095989.244440@n59g2000hsh.googlegroups.com...
>   Try confining it to uk.radio.amateur or maybe
>   rec.radio.amateur.misc. It doesn't belong in HOMEBREW

From 1593984884659415568
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!
news.albasani.net!newsfeed.datemas.de!news.datemas.de!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Mon, 26 Mar 2007 10:43:27 +0100
Organization: Datemas.de http://www.datemas.de
Lines: 45
Message-ID: <eu84ju$jk$1@news.datemas.de>
References: <eu3clr$v5k$1@news.datemas.de>
<1174763256.095989.244440@n59g2000hsh.googlegroups.com>
<eu5iuc$6ba$1@news.datemas.de>
<1174844973.655372.65070@n76g2000hsh.googlegroups.com>
X-Trace: news.datemas.de
TovwrDSmrgpa4V1dcWJcux9AHYf39xenPYctbMCj1AVOQmSk1ASK6SmGm4XLikaaB4w1LbKNBLQuKmG2ql
sjlndfMFMH0iqEXYSc5Sz2XF9+Q7N1t8GOhYjiBc7kfft7r+DHSmTZL5o6UFk2mCmnlB2YyQgDal4633iI
gDA+O3k=
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Mon, 26 Mar 2007 09:43:26 +0000 (UTC)

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:106185 rec.radio.amateur.misc:34808
rec.radio.amateur.homebrew:12783

Putting this into its correct perspective, this came about as the result of a malicious and perjurous complaint made by Brian Reay, G8OSN, M3OSN, and it is at Brian Reay's door (and now also the RSCB's door) that any complaints of Bad PR must be laid.

Brian Reay subjected me and my close family members to a campaign of harassment wherein he published repeated racially-aggravated pornographic emails to these NG. He maintained this campaign over a period exceeding two years. How his sick-minded obsession was ever relevant to Ham Radio and to these NG, or how it was ever in response to anything that I had posted, has never been established.

Having put up with this for an extended peiod, I then discovered that not only was Brian Reay a schoolteacher, but he was publishing his sick racially-aggravated pornographic emails whilst under training at a Girls' School.

I did no more than to assert the right of reply in defence when I asserted that no-one with such a sick-minded history of international publishing should be a school teacher UNDER ANY CIRCUMSTANCES.

I hold to that view today.

Brian Reay's infantile response to having the tables turned on him was to make a malicious and perjurous complaint to his fellow w*nkmasons to allege that I was harassing him rather than the oher way around which is obvious from the Google archive to this day.

Indeed, in the months leading up to his orchestration of my arrest, Brian Reay chortled on several occasions that he was deliberately provoking me.

"AF6AY" <LenAnderson@ieee.org> wrote in message
news:1174844973.655372.65070@n76g2000hsh.googlegroups.com...

> It is a lot less painful than getting a boot in
> the face from a bobby while you were being placed under
> arrest...as you were in the past.

From 3982293823862387426
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Bob <bob@hotmail.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Mon, 26 Mar 2007 10:59:07 +0100
Lines: 20
Message-ID: <gq5f031tjcoq8r4r91n6lu54m78r4flbck@4ax.com>
References: <eu3clr$v5k$1@news.datemas.de>
Reply-To: bob@hotmail.com
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: individual.net pfgXczLs+bqnPVGr9JOkMwejP5SSCo3EdUE+YbBLtrP4fge28=
Cancel-Lock: sha1:i5cE2pamd9QVP0TDvKUrXwtaNns=
X-Newsreader: Forte Agent 1.8/32.548
X-NFilter: 1.2.0
Xref: g2news1.google.com uk.radio.amateur:106186 rec.radio.amateur.misc:34809
rec.radio.amateur.homebrew:12784

"G.A.Evans G4SDW" <me@privacy.net> wrote:

>A necessary preface.....

<snip>

While I agree with some of what you say about slipping standards, nevertheless numbers are shrinking and new blood must be encouraged into the hobby/pastime/service/pursuit, etc, else we will be gradually whittled away like the dodo until the bands are so empty that governments will gleefully sell off our slices of the RF spectrum.

Admittedly, some of this new blood might not be of the 'quality' of some of the old, but among the new intake there are individuals with plenty of enthusiasm, curiosity, inventiveness and manners to make up for the minority that might dismay some of the old guard.

I've a feeling that some / most of the coarser new licencees will not have the staying power and we will not hear of them after a couple of years.

From 1428505282520691847
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a

X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.germany.com!newsfeed.datemas.de!
news.datemas.de!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Mon, 26 Mar 2007 11:12:51 +0100
Organization: Datemas.de http://www.datemas.de
Lines: 40
Message-ID: <eu86b2$4p7$1@news.datemas.de>
References: <eu3clr$v5k$1@news.datemas.de>
<gq5f031tjcoq8r4r91n6lu54m78r4flbck@4ax.com>
X-Trace: news.datemas.de 1Rl08z0g4bddOYEaS/
vM89uxBQzFkbxH00X2MH57HXnG4l9Zcqed3s1wg2uZTseEd9bbixW1s+q1y7KDjJPTvU1HeHiHo94ETRUE
8M/+gjtd6XByzTTyxx2Yd44NF0TUGGyvGlsr8cddgovksb0WAD4IyK8rZodEstKXPks6UNw=
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Mon, 26 Mar 2007 10:12:50 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:106188 rec.radio.amateur.misc:34810
rec.radio.amateur.homebrew:12785

I disagree totally.

There is not now, nor there has there ever been, a need,
desperate or otherwise, to get "new blood".

There are more licensees today than there were in the late 70's
just prior to the influx of CB hobbyist operators.

If the "new blood" propaganda is allowed to develop, we will
end up with a Mongolian Horde of non-techical turnip-brains,
the perception of which by govt agencies will result in a faster
regulation of the technical freedoms we enjoy.

It is far, far better to proceed with technical seed-corn and to
retain our technical privileges, even with reduced numbers.

"Bob" <bob@hotmail.com> wrote in message
news:gq5f031tjcoq8r4r91n6lu54m78r4flbck@4ax.com...
> "G.A.Evans G4SDW" <me@privacy.net> wrote:
>
>>A necessary preface.....
>
> <snip>
>
> While I agree with some of what you say about slipping standards,
> nevertheless numbers are shrinking and new blood must be encouraged into

> the hobby/pastime/service/pursuit, etc, else we will be gradually
> whittled away like the dodo until the bands are so empty that
> governments will gleefully sell off our slices of the RF spectrum.
>
> Admittedly, some of this new blood might not be of the 'quality' of some
> of the old, but among the new intake there are individuals with plenty
> of enthusiasm, curiosity, inventiveness and manners to make up for the
> minority that might dismay some of the old guard.
>
> I've a feeling that some / most of the coarser new licencees will not
> have the staying power and we will not hear of them after a couple of
> years.

From 3882285764283275515
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!news.germany.com!newsfeed.datemas.de!news.datemas.de!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Mon, 26 Mar 2007 11:35:15 +0100
Organization: Datemas.de http://www.datemas.de
Lines: 12
Message-ID: <eu87l2$97o$1@news.datemas.de>
References: <eu3clr$v5k$1@news.datemas.de>
<gq5f031tjcoq8r4r91n6lu54m78r4flbck@4ax.com>
<6q7f03psrjk7pdj9aalk9sgho5lpequfi7@4ax.com>
X-Trace: news.datemas.de
6b7BVTWhTXp3dL5anaLxgl5BaDIQEuh6H7bEi+TeAV4lfEpKtvJMvCXWe2oUhb9X73ZuPu0DO7Bk+xpPHT
82/
eIOncp7dkvcuJuPPsFsee3P3ZkGc2+u7LbXbjMj3B26eF+VKClBnXzdNYtqiHGbG6PTm8IueHr9JPKg2Nz
BfXuTfp1kk+++Sw==
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Mon, 26 Mar 2007 10:35:15 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:106191 rec.radio.amateur.misc:34812
rec.radio.amateur.homebrew:12787

And the mystifying inabillity to progress beyond the
level of exams set for 6-year-olds.

"Walt Davidson" <g3nyy@despammed.com> wrote in message
news:6q7f03psrjk7pdj9aalk9sgho5lpequfi7@4ax.com...
>
> Also, much of the "new blood" of which you
> speak actually consists of people aged in their 50s, 60s and 70s ...
> not youngsters in the first flush of youth. These people have a high
> disposable income and plenty of time on their hands.

```
From 6967228622191827574
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!
213.132.189.2.MISMATCH!multikabel.net!feed20.multikabel.net!news2.euro.net!
postnews2.euro.net!news.wanadoo.nl!not-for-mail
Date: Mon, 26 Mar 2007 12:39:09 +0200
From: know code <know_code@wanadoo.nl>
Reply-To:  "know code"@invalid_address.com
User-Agent: Thunderbird 1.5.0.10 (X11/20070221)
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_  Ham Radio?"
References: <eu3clr$v5k$1@news.datemas.de>
<gq5f031tjcoq8r4r91n6lu54m78r4flbck@4ax.com>
In-Reply-To: <gq5f031tjcoq8r4r91n6lu54m78r4flbck@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: quoted-printable
Lines: 60
Message-ID: <4607a2cd$0$76137$dbd43001@news.wanadoo.nl>
Organization: Wanadoo
NNTP-Posting-Date: 26 Mar 2007 10:39:09 GMT
NNTP-Posting-Host: s5591cd23.adsl.wanadoo.nl
X-Trace: 1174905549 dr2.euro.net 76137 85.145.205.35:3899
X-Complaints-To: abuse@wanadoo.nl
Xref: g2news1.google.com uk.radio.amateur:106192 rec.radio.amateur.misc:34813
rec.radio.amateur.homebrew:12788
```

Bob wrote:

> While I agree with some of what you say about slipping standards,
> nevertheless numbers are shrinking and new blood must be encouraged int=
o
> the hobby/pastime/service/pursuit, etc,

Why do people continue to propagate this myth? The Amateur Service is=20
not dying, and never has been, and the numbers are not falling. Even=20
the IARU quite clearly state this in their document "SPECTRUM=20

REQUIREMENTS OF THE AMATEUR AND
AMATEUR-SATELLITE SERVICES Revised August 2006" at=20
http://www.iaru.org/ac-spec06.html

When referring to the 7MHz allocation, the IARU say "The amateur service =

requirement continues to be for at least a 300-kHz allocation. This=20
requirement is even greater today than in the past, owing to the=20
increasing number of amateur stations and the expanding diversity of=20
modes of emission used in the amateur service". Note the phrase=20
"increasing number of amateur stations"!

When referring to the 14MHz allocation, the IARU say "The growth of the=20
amateur service and its heavy dependence on this band for international=20
communication....". Note the phrase "the growth of the amateur service".=

This doesn't sound like anything that is dying.

The only people who try to propagate the myth that the Amateur Service=20
is dying are those who have a financial interest (national societies=20
through membership numbers and equipment manufacturers/retailers).=20
Don't listen to them. Instead, turn on your radio and listen to that=20
instead.... you will find it is busier than ever!

The latest data available on the IARU website at=20
http://www.iaru.org/statsum00.html (bottom of the page) shows the number =

of licensed amateurs from 1965-2000. In 2000 the number was at the=20
highest ever, so where is the evidence to back up the 'dying' theory?=20
However, the number of licensed amateurs who were also members of their=20
national society was at the LOWEST number ever (19.6% in 2000 compared=20
to 38.6% in 1965).

There are too many people with no real interest in amateur radio who are =

continually pushing to have the standards lowered so that they can gain=20
financially from it. They do this by lying through their teeth that=20
amateur radio is dying and use scare tactics that we will lose=20
allocations. It is time to put a stop to this!

--=20
ARRL membership =3D $39 (~=A320)
RSGB membership =3D =A344

Don't let them rip you off any more.
Do the right thing, resign from the RSGB today.

The RSGB said Radio Amateurs were a threat to national security!
Is this the type of organisation you want to represent you?

From 8796839634699522248

X-Google-Thread: 106d41,e304b13f1d339edf
X-Google-Thread: fc2a5,559dde8edca6558e,start
X-Google-Thread: 108122,559dde8edca6558e,start
X-Google-Attributes: gid106d41,gidfc2a5,gid108122,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o5g2000hsb.googlegroups.com!not-for-mail
From: "Telstar Electronics" <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: VoiceMax Speech Processor Moving Forward...
Date: 26 Mar 2007 04:52:55 -0700
Organization: http://groups.google.com
Lines: 16
Message-ID: <1174909975.113268.23590@o5g2000hsb.googlegroups.com>
References: <1171287506.707448.200230@a75g2000cwd.googlegroups.com>
   <1174349962.394121.105030@p15g2000hsd.googlegroups.com>
   <1174392178.454994.14890@n59g2000hsh.googlegroups.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174909976 16285 127.0.0.1 (26 Mar 2007 11:52:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 26 Mar 2007 11:52:56 +0000 (UTC)
In-Reply-To: <1174392178.454994.14890@n59g2000hsh.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o5g2000hsb.googlegroups.com; posting-host=216.203.30.4;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news1.google.com rec.radio.cb:34979 rec.radio.amateur.homebrew:12789 rec.radio.amateur.equipment:11738

The first pre-production pcb has been built and put into service. Pictures of this board are now available at
http://www.telstar-electronics.com/default_files/NewProductDevelopment.htm
Several other additional boards will be built and put in service within the next two weeks. After this pre-production pilot... final adjustments will be made to the pcb to allow for easier/better manufacturing before the final pcb is released.

P.S. I may be looking for several radio techs in the next few months that would agree to do some beta testing. Email me with your qualifications to be considered. The beta units will be free of charge... and I would only expect a detailed performance report in return.

www.telstar-electronics.com

From -4056814124389075901
X-Google-Thread: f64c6,37763690cca2000a

```
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!wns14feed!
worldnet.att.net!63.218.45.10!nx01.iad01.newshosting.com!newshosting.com!
newsfeed.icl.net!newsfeed.fjserv.net!newsfeed.ision.net!newsfeed2.easynews.net!
ision!newsfeed.freenet.de!border2.nntp.ams.giganews.com!nntp.giganews.com!fu-
berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Spike <Aero.Spike@S&T.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_  Ham Radio?"
Date: Mon, 26 Mar 2007 12:58:41 +0100
Lines: 18
Message-ID: <47df0395vcft8cv63nm220j3t9j9ukvqjs@4ax.com>
References: <eu3clr$v5k$1@news.datemas.de>
<gq5f031tjcoq8r4r91n6lu54m78r4flbck@4ax.com>
<6q7f03psrjk7pdj9aalk9sgho5lpequfi7@4ax.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: individual.net 41FWVXBAHwbjiD6ua7uc4wt8VtaImRajpZp6QutFVFOxerfwP/
X-Newsreader: Forte Agent 1.93/32.576 English (American)
Xref: g2news1.google.com uk.radio.amateur:106198 rec.radio.amateur.misc:34818
rec.radio.amateur.homebrew:12790


Walt Davidson wrote:

>The fact that the amateur radio population is ageing has actually
>*increased* band occupancy, because many radio amateurs nowadays are
>retired and are now able to spend many more hours on the air,
>especially on weekdays.  Also, much of the "new blood" of which you
>speak actually consists of people aged in their 50s, 60s and 70s ...
>not youngsters in the first flush of youth.  These people have a high
>disposable income and plenty of time on their hands.

The amount of AM being used on 80m is also a very encouraging sign;
seemingly contacts can be had at almost any time, and on any
phone-section frequency. Special nets need not be used to get
contacts, if the onservations of my tuning around are typical.
--
from
Aero Spike


From -6723503708189108463
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news1.google.com!news.germany.com!newsfeed.freenet.de!
```

news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!
newspeer1-win.ntli.net!newsfe7-win.ntli.net.POSTED!53ab2750!not-for-mail
From: "Brian Reay" <see@website.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <eu3clr$v5k$1@news.datemas.de>
<gq5f031tjcoq8r4r91n6lu54m78r4flbck@4ax.com>
<6q7f03psrjk7pdj9aalk9sgho5lpequfi7@4ax.com>
<47df0395vcft8cv63nm220j3t9j9ukvqjs@4ax.com>
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Lines: 26
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <VDSNh.22235$0Z1.512@newsfe7-win.ntli.net>
Date: Mon, 26 Mar 2007 16:36:05 GMT
NNTP-Posting-Host: 82.26.17.85
X-Complaints-To: http://www.virgin.net/netreport
X-Trace: newsfe7-win.ntli.net 1174926965 82.26.17.85 (Mon, 26 Mar 2007 17:36:05 BST)
NNTP-Posting-Date: Mon, 26 Mar 2007 17:36:05 BST
Organization: Virgin Net Usenet Service
Xref: g2news1.google.com uk.radio.amateur:106216 rec.radio.amateur.misc:34825 rec.radio.amateur.homebrew:12791

"Spike" <Aero.Spike@S&T.invalid> wrote in message
news:47df0395vcft8cv63nm220j3t9j9ukvqjs@4ax.com...

> The amount of AM being used on 80m is also a very encouraging sign;
> seemingly contacts can be had at almost any time, and on any
> phone-section frequency. Special nets need not be used to get
> contacts, if the onservations of my tuning around are typical.

Where do these occur? I'd like to listen in- or maybe even join in.

I do join an AM net on 160m from time to time (school holidays, it may get noticed if I set up a shack in the back of the class room- although I know of one teacher who did just that!).

--
73
Brian, G8OSN
www.g8osn.org.uk

Now your amateur licence is free, why not send at least �15 per year to support the
Radio Communications Foundation or STELAR?

```
From -7991350296885050526
X-Google-Thread: fc2a5,274901f6fe0db389
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n59g2000hsh.googlegroups.com!not-for-mail
From: "AF6AY" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM signal to FM signal
Date: 26 Mar 2007 10:35:16 -0700
Organization: http://groups.google.com
Lines: 32
Message-ID: <1174930515.295362.104470@n59g2000hsh.googlegroups.com>
References: <1174893119.187241.117880@o5g2000hsb.googlegroups.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174930518 6837 127.0.0.1 (26 Mar 2007 17:35:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 26 Mar 2007 17:35:18 +0000 (UTC)
In-Reply-To: <1174893119.187241.117880@o5g2000hsb.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-ntc-tc08.proxy.aol.com[CFC87128] (Prism/1.1.9), HTTP/1.1 cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: n59g2000hsh.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com rec.radio.amateur.homebrew:12792
```

On Mar 25, 11:11?pm, "ungvichian" <ungvich...@thaimail.com> wrote:

> I've seen tons of posts about converting FM signals to AM signals
> (say, to use with an AM only vintage car radio). But I haven't seen
> anything about the inverse: converting an AM signal to an FM signal
> (because there are quite a few FM-only devices on the market now, such
> as MP3 players). I found this:http://www.uashem.com/pageid-259.html,
> but it doesn't really fit my criteria. I'd like to be able to tune in
> any AM station, and then select the frequency to output it to without
> interfering with other station (think iPod transmitter).
>
> Surely there's gotta be some out there...

If you need a small "converter" (of audio), all you need is a frequency-modulated oscillator, the oscillator tuned to the FM BC band of your choice. It can be a single transistor with something like a simple variable capacitance diode (or equivalent) doing the FM.

The circuit shown in your reference has no magic conversion and is little more than a jammer of everyone in its tuning

range. If it works at all then it would be by overloading the
input of an FM BC band receiver and forcing it to be a mixer.
That is NOT good homebrewing since the same single-transistor circuit could be converted to an FMed oscillator
with its output attenuated (to avoid undue radiation) and
loosely coupled to the FM receiver. If you have audio, even
if only from the speaker of an AM receiver, then you have
the modulation source...at audio, something you can hear
to make sure there IS a modulation signal input.

73, Len AF6AY

From 3863128233872307130
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Spike <Aero.Spike@S&T.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Mon, 26 Mar 2007 18:58:33 +0100
Lines: 40
Message-ID: <6n1g035i7s0gvs324bgb99geg271ab6h5i@4ax.com>
References: <eu3clr$v5k$1@news.datemas.de>
<gq5f031tjcoq8r4r91n6lu54m78r4flbck@4ax.com>
<6q7f03psrjk7pdj9aalk9sgho5lpequfi7@4ax.com>
<47df0395vcft8cv63nm220j3t9j9ukvqjs@4ax.com> <VDSNh.22235$0Z1.512@newsfe7-win.ntli.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: individual.net y54/voVzgFon8Bq/HnQ6Bw7U313NYnM/x0w9+5OQI4qfxXfMwY
X-Newsreader: Forte Agent 1.93/32.576 English (American)
Xref: g2news1.google.com uk.radio.amateur:106220 rec.radio.amateur.misc:34831
rec.radio.amateur.homebrew:12793

Brian Reay wrote:

>
>"Spike" <Aero.Spike@S&T.invalid> wrote in message
>news:47df0395vcft8cv63nm220j3t9j9ukvqjs@4ax.com...
> >
>> The amount of AM being used on 80m is also a very encouraging sign;
>> seemingly contacts can be had at almost any time, and on any
>> phone-section frequency. Special nets need not be used to get
>> contacts, if the onservations of my tuning around are typical.
>

>Where do these occur? I'd like to listen in- or maybe even join in.

Try 3615 kc/s (UK) and 3705 kc/s (Dutch); both are monitored even when no activity is apparent. Also look at 3610 - 3640 kc/s.

Other UK nets can be heard in the 3660 - 3690 kc/s section; but AM can pop up anywhere in the phone section, as people do not necessarily limit themselves to the regular nets.

The sound of AM rigs is much different to those of SSB equipment even when the latter operate a form of AM, and military and homebrew gear have a cachet that modern radios just can't recreate.

Although before your time, it's rather like the situation with 2m after the war - Monday night was Activity Night, to encourage activity and increase band usage. That became a success, necessitating abandonment of the regional sections of the band in favour of a national system.

>I do join an AM net on 160m from time to time (school holidays, it may get
>noticed if I set up a shack in the back of the class room- although I know
>of one teacher who did just that!).

I'm sure ex-SOE and certain other people could advise you on stealth rigs and stealth aerials.....unless they are stealth operators.....;-)
--
from
Aero Spike

```
From -4399039221801083643
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!news.glorb.com!news-in.ntli.net!
newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe6-win.ntli.net.POSTED!53ab2750!not-for-mail
From: "Brian Reay" <see@website.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <eu3clr$v5k$1@news.datemas.de>
<gq5f031tjcoq8r4r91n6lu54m78r4flbck@4ax.com>
<6q7f03psrjk7pdj9aalk9sgho5lpequfi7@4ax.com>
<47df0395vcft8cv63nm220j3t9j9ukvqjs@4ax.com> <VDSNh.22235$0Z1.512@newsfe7-
win.ntli.net> <6n1g035i7s0gvs324bgb99geg271ab6h5i@4ax.com>
Subject: Re: For the newbie, a FAQ, "What is _REAL_  Ham Radio?"
Lines: 57
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
```

Message-ID: <k6UNh.17617$NK3.2878@newsfe6-win.ntli.net>
Date: Mon, 26 Mar 2007 18:16:48 GMT
NNTP-Posting-Host: 86.27.136.198
X-Complaints-To: http://www.ntlworld.com/netreport
X-Trace: newsfe6-win.ntli.net 1174933008 86.27.136.198 (Mon, 26 Mar 2007 19:16:48 BST)
NNTP-Posting-Date: Mon, 26 Mar 2007 19:16:48 BST
Organization: ntl Cablemodem News Service
Xref: g2news1.google.com uk.radio.amateur:106222 rec.radio.amateur.misc:34832 rec.radio.amateur.homebrew:12794

"Spike" <Aero.Spike@S&T.invalid> wrote in message
news:6n1g035i7s0gvs324bgb99geg271ab6h5i@4ax.com...
 >>
>>Where do these occur? I'd like to listen in- or maybe even join in.
>
> Try 3615 kc/s (UK) and 3705 kc/s (Dutch); both are monitored even when
> no activity is apparent. Also look at 3610 - 3640 kc/s.

Will do, in fact, the 756 will be on 3615 the rest of the evening.

>
> Other UK nets can be heard in the 3660 - 3690 kc/s section; but AM can
> pop up anywhere in the phone section, as people do not necessarily
> limit themselves to the regular nets.
>
> The sound of AM rigs is much different to those of SSB equipment even
> when the latter operate a form of AM, and military and homebrew gear
> have a cachet that modern radios just can't recreate.

Oh I know, we've a few "AM addicts" around here- and more power to their
elbow (or perhaps PA).

 >>I do join an AM net on 160m from time to time (school holidays, it may
get
>>noticed if I set up a shack in the back of the class room- although I
>>know
>>of one teacher who did just that!).
>
> I'm sure ex-SOE and certain other people could advise you on stealth
> rigs and stealth aerials.....unless they are stealth operators.....;-)

There is a thought. We've not got permanent antennas at school yet (although
permission has been obtained and a local has donated materials and effort
for erection there of). At the moment, I use a simple indoor beast for 2m
practice QSOs and an HF inverted V I "throw up" on an ex-MOD mast I have.

The permanent set up isn't in my classroom- the Technology department have
provided the shack space and the roof space for the antennas. The maths
building is a new(ish) specialist block that isn't was tall as the Tech
block- although it probably is better placed for HF antennas.

The pupils respond well to the hobby- I stir some "real world" problems to

```
maths lessons (eg formulae transposition at the lower end  and some of the
higher maths at A level). I've plans for some "code breaking" lessons for
extra maths later this year, they will cover the maths in error correcting
codes etc.

--
73
Brian, G8OSN
www.g8osn.org.uk

Now your amateur licence is free, why not send at least �15 per year to
support the
Radio Communications Foundation or STELAR?




From -4516235922124533997
X-Google-Thread: fc2a5,ed038184692ee88e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews5.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hams versus CBers and whatnot
References: <1173531943.895443.202300@q40g2000cwq.googlegroups.com>
<iZ1Jh.1943$vV3.121@trndny09>
In-Reply-To: <iZ1Jh.1943$vV3.121@trndny09>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 41
Message-ID: <HcZNh.5294$ER1.3378@bignews5.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcbobihekkajopmdcgmabpofdchalhefjgjepl
ngbpfkbbbfmnbkkblahielgmpocbjfohlgcoobogloebbecolidgnpjbeapeopbcjgplmpnjnnapal
NNTP-Posting-Date: Mon, 26 Mar 2007 20:04:55 EDT
Organization: BellSouth Internet Group
Date: Mon, 26 Mar 2007 20:05:07 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:12795

James Philopena wrote:
> <paul@burridge8333.fsbusiness.co.uk> wrote in message
> news:1173531943.895443.202300@q40g2000cwq.googlegroups.com...
>> Well I take the original poster`s point, but it`s a case of "use it or
>> lose it" and the more people that use the bands, the less likely it is
>> that they`ll be taken away. So even if they are worked by wankers, at
>> least the wankers are serving some purpose. Plus there is nothing to
>> stop code lovers (of which I am one) from continuing to dit-dah away
>> indefinitely. No one`s proposing to make CW illegal. Let`s try to be a
>> little less elitist, gentlemen!
>>
>
> Could not have said it better and your comments mirror my sentiments as
> well.  Thank You
>
> If we are to have fun and let this hobby flourish, we all need to work
> together to make it a model of humanity and acceptance.  Just because one
> has passed code reception tests at some level does not make him/her the
> exemplarily model of the perfect ham.  Look at all the child like behavior
> resulting in massive FCC fines of the past five years!  These were all
> 'coded' hams.  Some with 20WPM test behind them.  Remember, we (the US) are
> one of the last to continue to have had a code requirement.  Has the
> 'hamming' rest of the world gone to heck in a handbasket?  No.
>
> If you find it difficult to deal with the no coders, then it may be time for
> you to move on to another hobby.  I welcome the 'new blood' as this will
> ensure our bands remain ours and might even cause equipment prices to come
> down - it's all in the law of supply and demand.
>
> Jim Philopena, KB1NXE
> Formerly: WN1VJW, DA2PJ, KA1VGP and for a time the IMD (no, not intermod -
> but some might say so;~) at AGA1WP
>
>
>
A friend of mine wanted to get a ham ticket for years, but the thought
of having to learn the code stopped him.  When the codeless technician
license came out he jumped on it.  Once on the air, guess what happened?
Maybe it was the repeaters id'ing in morse, but he finally decided to
learn the code and got his tech plus!  Wonder if there is a moral lesson
here?


From -1306242258086760665
X-Google-Thread: fc2a5,fdec7c3b65421cff
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns14feed!worldnet.att.net!63.218.45.10!
nx01.iad01.newshosting.com!newshosting.com!post01.iad01!roadrunner.com!not-for-
mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1174642845.898582.205560@l75g2000hse.googlegroups.com>
Subject: Re: Turn portable radio into transmitter- can it be done?
Date: Mon, 26 Mar 2007 22:30:34 -0400
X-Priority: 3
X-MSMail-Priority: Normal
```

X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Lines: 23
Message-ID: <460881ca$0$5265$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12796

"Kevin J." <comments@backroomclassix.com> wrote in message
news:1174642845.898582.205560@l75g2000hse.googlegroups.com...
>I have more portable radios than I know what to do with and was
> wondering if I could somehow convert one of them for use as an
> extremely low-powered AM transmitter for use around my apartment. I
> need only a range of 10 feet or so and I really don't want to buy any
> sort of kit as Part-15 regulations in the US prohibit their use but do
> allow homebuilt units. I had one of those toys called a Wild Planet
> Radio DJ that was FCC type-approved but it got misplaced in my last
> move and now my old-time radio shows are just sitting there waiting to
> return to life on my antique radios.
>
> Or, should doing that prove impractical, how hard is it to learn how
> to solder? :-)
>

Any modification would probably require more skill than assembying a part15 tx kit.

Jimmie

From -4272594732267094977
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
References: <12vdm9fk86gbr98@news.supernews.com>
<1173806426.220530.315050@j27g2000cwj.googlegroups.com>
<12vdtlbe191sgd0@news.supernews.com> <SxFJh.87$Ik4.8@newsfe06.lga>
<12ved90sl7k2708@news.supernews.com>
Subject: Re: VCXO frequency isn't high enough
Date: Mon, 26 Mar 2007 23:04:04 -0400
X-Priority: 3

```
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Lines: 18
Message-ID: <460889a3$0$28085$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12797
sci.electronics.basics:49124 sci.electronics.design:210994


"Anthony Fremont" <spam-not@nowhere.com> wrote in message
news:12ved90sl7k2708@news.supernews.com...
> Jamie wrote:
>
>> You need to reduce the inductor.. that is causing a down swing in
>> your freq.
>
> Thanks, I took it out and the frequency increased by only about 70Hz, but
> it did increase.  :-)  Do you know of anything else I can do to increase
> the frequency by about another couple of kcs?
>

Get the right freq crystal.

Jimmie




From -8406707488246998079
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nntpserver.com!zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-
v0.1!not-for-mail
From: Mark@kb9rqz.org
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_  Ham Radio?"
Date: Mon, 26 Mar 2007 17:03:12 -0400
Message-ID: <67dg031ljh2k3p9t2rifg22nsqc9tsv0jn@4ax.com>
References: <eu3clr$v5k$1@news.datemas.de>
<gq5f031tjcoq8r4r91n6lu54m78r4flbck@4ax.com> <eu86b2$4p7$1@news.datemas.de>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 19
NNTP-Posting-Date: 26 Mar 2007 20:10:02 GMT
```

```
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com uk.radio.amateur:106260 rec.radio.amateur.misc:34911
rec.radio.amateur.homebrew:12798

On Mon, 26 Mar 2007 11:12:51 +0100, "G.A.Evans G4SDW" <me@privacy.net>
wrote:

>I disagree totally.
>
>There is not now, nor there has there ever been, a need,
>desperate or otherwise, to get "new blood".
>

thenyou are an obvious fool unless you are planing on living forever

in the latter you have shal we say...other problems





http://kb9rqz.blogspot.com
stealing data from my wifes accounts is unaccaptable
Dloyd Lavies renagade cyber theif and terroist

--
Posted via a free Usenet account from http://www.teranews.com




From -3927104190813198l3
X-Google-Thread: 106d41,e304b13f1d339edf
X-Google-Thread: fc2a5,559dde8edca6558e
X-Google-Thread: 108122,559dde8edca6558e
X-Google-Attributes: gid106d41,gidfc2a5,gid108122,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!r56g2000hsd.googlegroups.com!not-for-
mail
From: "Andrew VK3BFA" <ablight@alphalink.com.au>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: Re: VoiceMax Speech Processor Moving Forward...
Date: 27 Mar 2007 04:41:12 -0700
Organization: http://groups.google.com
Lines: 9
Message-ID: <1174995672.907596.262790@r56g2000hsd.googlegroups.com>
References: <1171287506.707448.200230@a75g2000cwd.googlegroups.com>
   <1174349962.394121.105030@p15g2000hsd.googlegroups.com>
   <1174392178.454994.14890@n59g2000hsh.googlegroups.com>
   <1174909975.113268.23590@o5g2000hsb.googlegroups.com>
NNTP-Posting-Host: 218.215.131.34
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174995674 17083 127.0.0.1 (27 Mar 2007 11:41:14 GMT)
X-Complaints-To: groups-abuse@google.com
```

```
NNTP-Posting-Date: Tue, 27 Mar 2007 11:41:14 +0000 (UTC)
In-Reply-To: <1174909975.113268.23590@o5g2000hsb.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.3) Gecko/
20070309 Firefox/2.0.0.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: r56g2000hsd.googlegroups.com; posting-host=218.215.131.34;
   posting-account=EWANPAwAAAAIMf8u_DoGHaMCx0gCEW5D
Xref: g2news1.google.com rec.radio.cb:35008 rec.radio.amateur.homebrew:12799
rec.radio.amateur.equipment:11742
```

On Mar 26, 9:52 pm, "Telstar Electronics" <briangrif...@sbcglobal.net>
wrote:

> The first pre-production pcb has been built and put into service.

Wow. Another speech compressor. Just what the world needs......

Andrew VK3BFA.

```
From -4701781734533870997
X-Google-Thread: fc2a5,fdec7c3b65421cff
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y66g2000hsf.googlegroups.com!not-for-
mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Turn portable radio into transmitter- can it be done?
Date: 27 Mar 2007 04:58:45 -0700
Organization: http://groups.google.com
Lines: 23
Message-ID: <1174996725.481942.60720@y66g2000hsf.googlegroups.com>
References: <1174642845.898582.205560@l75g2000hse.googlegroups.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174996727 19851 127.0.0.1 (27 Mar 2007 11:58:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Mar 2007 11:58:47 +0000 (UTC)
In-Reply-To: <1174642845.898582.205560@l75g2000hse.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y66g2000hsf.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com rec.radio.amateur.homebrew:12800
```

On Mar 23, 5:40 am, "Kevin J." <comme...@backroomclassix.com> wrote:

> I have more portable radios than I know what to do with and was

> wondering if I could somehow convert one of them for use as an
> extremely low-powered AM transmitter for use around my apartment. I
> need only a range of 10 feet or so and I really don't want to buy any
> sort of kit as Part-15 regulations in the US prohibit their use but do
> allow homebuilt units. I had one of those toys called a Wild Planet
> Radio DJ that was FCC type-approved but it got misplaced in my last
> move and now my old-time radio shows are just sitting there waiting to
> return to life on my antique radios.
>
> Or, should doing that prove impractical, how hard is it to learn how
> to solder? :-)

A typical 70's/80's AM transistor radio will have several parts that will be usable (e.g. oscillator coil, tuning cap, lots of small resistors and transistors, an audio amp maybe with output transformer that could be used for modulation) either as raw parts or as subassemblies. But you aren't going to do it without soldering, and probably judicious use of exacto knives too!

Tim.

From 7899474275861688746
X-Google-Thread: 106d41,e304b13f1d339edf
X-Google-Thread: fc2a5,559dde8edca6558e
X-Google-Thread: 108122,559dde8edca6558e
X-Google-Attributes: gid106d41,gidfc2a5,gid108122,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y80g2000hsf.googlegroups.com!not-for-mail
From: "Telstar Electronics" <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: Re: VoiceMax Speech Processor Moving Forward...
Date: 27 Mar 2007 05:10:20 -0700
Organization: http://groups.google.com
Lines: 14
Message-ID: <1174997420.821374.183000@y80g2000hsf.googlegroups.com>
References: <1171287506.707448.200230@a75g2000cwd.googlegroups.com>
   <1174349962.394121.105030@p15g2000hsd.googlegroups.com>
   <1174392178.454994.14890@n59g2000hsh.googlegroups.com>
   <1174909975.113268.23590@o5g2000hsb.googlegroups.com>
   <1174995672.907596.262790@r56g2000hsd.googlegroups.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174997422 9463 127.0.0.1 (27 Mar 2007 12:10:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Mar 2007 12:10:22 +0000 (UTC)
In-Reply-To: <1174995672.907596.262790@r56g2000hsd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)

```
Complaints-To: groups-abuse@google.com
Injection-Info: y80g2000hsf.googlegroups.com; posting-host=216.203.30.4;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news1.google.com rec.radio.cb:35009 rec.radio.amateur.homebrew:12801
rec.radio.amateur.equipment:11743

On Mar 27, 6:41 am, "Andrew VK3BFA" <abli...@alphalink.com.au> wrote:
> On Mar 26, 9:52 pm, "Telstar Electronics" <briangrif...@sbcglobal.net>
> wrote:
>
> > The first pre-production pcb has been built and put into service.
>
> Wow. Another speech compressor. Just what the world needs......
>
> Andrew VK3BFA.

Thanks for your input...

www.telstar-electronics.com




From 5433096720867196282
X-Google-Thread: 106d41,e304b13f1d339edf
X-Google-Thread: fc2a5,559dde8edca6558e
X-Google-Thread: 108122,559dde8edca6558e
X-Google-Attributes: gid106d41,gidfc2a5,gid108122,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.glorb.com!solaris.cc.vt.edu!
news.vt.edu!news.netins.net!not-for-mail
From: nospam <NOSPAM@L2Speed.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: Re: VoiceMax Speech Processor Moving Forward...
Date: Tue, 27 Mar 2007 07:45:18 -0500
Organization: netINS InterNetNews site
Lines: 25
Message-ID: <la4i035dntgq3cksuvj4npj8iqbvjtbrn4@4ax.com>
References: <1171287506.707448.200230@a75g2000cwd.googlegroups.com>
<1174349962.394121.105030@p15g2000hsd.googlegroups.com>
<1174392178.454994.14890@n59g2000hsh.googlegroups.com>
<1174909975.113268.23590@o5g2000hsb.googlegroups.com>
<1174995672.907596.262790@r56g2000hsd.googlegroups.com>
<1174997420.821374.183000@y80g2000hsf.googlegroups.com>
NNTP-Posting-Host: truro-01-006.wireless.l2speed.net
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: news.netins.net 1174999511 21912 67.55.159.6 (27 Mar 2007 12:45:11 GMT)
X-Complaints-To: abuse@netins.net
NNTP-Posting-Date: Tue, 27 Mar 2007 12:45:11 +0000 (UTC)
X-Newsreader: Forte Agent 1.8/32.548
Xref: g2news1.google.com rec.radio.cb:35012 rec.radio.amateur.homebrew:12802
rec.radio.amateur.equipment:11744
```

Why do you sell a rf amplifier that covers "26-30MHz Coverage"
It sounds like you are selling a CB amp which I thought was illegal.
Just curious, Thanks

On 27 Mar 2007 05:10:20 -0700, "Telstar Electronics"
<briangriffey@sbcglobal.net> wrote:

```
>On Mar 27, 6:41 am, "Andrew VK3BFA" <abli...@alphalink.com.au> wrote:
>> On Mar 26, 9:52 pm, "Telstar Electronics" <briangrif...@sbcglobal.net>
>> wrote:
>>
>> > The first pre-production pcb has been built and put into service.
>>
>> Wow. Another speech compressor. Just what the world needs......
>>
>> Andrew VK3BFA.
>
>Thanks for your input...
>
>www.telstar-electronics.com
```

```
From 5282729946497542861
X-Google-Thread: fc2a5,ed038184692ee88e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 27 Mar 2007 15:34:39 -0500
Date: Tue, 27 Mar 2007 21:34:39 +0100
From: charlie <wehatespam@wymsey.co.uk>
User-Agent: Thunderbird 1.5.0.10 (X11/20060911)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hams versus CBers and whatnot
References: <1173531943.895443.202300@q40g2000cwq.googlegroups.com>
<iZ1Jh.1943$vV3.121@trndny09> <HcZNh.5294$ER1.3378@bignews5.bellsouth.net>
In-Reply-To: <HcZNh.5294$ER1.3378@bignews5.bellsouth.net>
X-Enigmail-Version: 0.94.2.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-ID: <0uadnRtAgZFC4pTbRVnyhQA@pipex.net>
Lines: 16
NNTP-Posting-Host: 81.179.227.120
X-Trace: sv3-ZIoyHldeISpsE0ziLJKKUPHi/
LeF3frcNPPNBNZ93OY3pLzZnlHbrSNQxxQTnF+fgTX8i+kjPOQgmJ4!0/OunhQmAqxoD91UJZBYGu/
```

tg4LhYh4o9EeOnawq2iKsbcMLNc6mjJObARvmAWm75VRJ7c+tKqjF!i8BtjAW05ReMhA4=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12803

ken scharf wrote:

<SNIP>
> Wonder if there is a moral lesson
> here?

I can think of a couple: 'Don't let the old farts put you off' and
'Things are only as bad as you want them to be.'

Good on your friend :)

Charlie.

--
www.wymsey.co.uk

From -3224032238826012406
X-Google-Thread: fc2a5,49f916e344873b4d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.nni.com!news.nni.com.POSTED!
not-for-mail
NNTP-Posting-Date: Tue, 27 Mar 2007 20:06:33 -0500
Message-ID: <4609CC0F.5D8CC6EC@intergrafix.net>
Date: Tue, 27 Mar 2007 20:59:43 -0500
From: John <amdinc@intergrafix.net>
X-Mailer: Mozilla 4.7 [en] (Win98; I)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range rural wireless high speed data options...
References: <1172947038.139960.11470@t69g2000cwt.googlegroups.com>
        <45F4C32F.C2C53460@intergrafix.net>
<1173673088.652623.199630@t69g2000cwt.googlegroups.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 73
NNTP-Posting-Host: 207.231.96.250
X-Trace: sv3-a2d0Q+JO6W4j1QnY7WVKAN2omzjcv2y8Em8Z+ewK+dqtj57hKksx5/
XBamgvLRGOdUFIzSE2FvL3lBD!
Y25VymiMMuL4f36+ZfjwgQIU9W9khO9x948yvjdUkV0oedoAqe7tHHoVKJ+5zz7y9AGtEg==

```
X-Complaints-To: abuse@nni.com
X-DMCA-Complaints-To: abuse@nni.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12804

Arv wrote:
>
> On 11 Mar, 21:04, John <amd...@intergrafix.net> wrote:
> > Day Brown wrote:
> >
> > > Without clear Line Of Sight do not exist. I intend to solve that
> > > problem. If I do, I'll get rich. The equipment now being offered is
> > > not deigned by people who live in rural ares, but engineers who, at
> > > best, are in suburban office parks.
> >
> > > Right now, I'm using the satellite data from hughes.net. Its not the
> > > high speed bandwidth advertised. The power supply was designed to be
> > > plugged into the wall. [that's a period] But if you live out here, you
> > > know the power goes out. but if you plug their power supply into your
> > > UPS, you find the damn thing blocks the next two backed up power
> > > outlets. Hello?
> >
> > > I've tried the 900mhz wireless transceiver. which needs a clear LOS
> > > (Line of Sight). I like living in the woods; and I'm not going to
> > > clearcut just so I can get a clear line of sight to the ISP
> > > transmitter tower.  Hello?
> >
> > > I also have a place in a deep hollow by a spring fed trout stream. No
> > > way will any of the commecially available wireless transmitters work
> > > down there. You cant even use a cell phone. Hello?
> >
> > > No, I'm thinking about 180 mhz, kinda close to TV channel 8, but...
> > > out here, the nearest TV channel 8 transmitter is 300 miles away.
> > > Besides, TV antennas are being scrapped all the time; everyone is
> > > switching to Dish TV. Out in rural areas, RFI/EMI from ham gear no
> > > longer bothers anyone watching TV.
> >
> > > Besides, seems like there mite be pulse emitters/detectors that work
> > > at this speed. No Carrier wave, no IF. Technically, its *NOT*
> > > "radio".  Ordinary tuners would ignore it; it aint AM nor FM.  A 12 db
> > > antenna would be about 13' foot long. Awta go 30 miles to an ISP in
> > > some town that stays up serving users on the weekends. I've tried all
> > > three of the local small town ISPs, which have a nasty habit of
> > > crashing on friday nite, and not coming back online til monday
> > > morning.
> >
> > > I called "support" one time to bitch, and mentioned that I used Linux.
> > > The response: "What's Linux?"
> >
> > > But what's the best option to go from full duplex into the PC? will
```

> > > the standard LAN multiplex at 180mhz? RS232?
> >
> > Try a full duplex repeater using solar cells at the top of the hill.
> >
> > John
>
> While he is "out in the boonies", the other end of any Internet access
> link that he establishes will have to be in a residential or municipal
> environment in order to get access to Internet facilities. That alone
> puts some obvious restrictions on what he will be able to do.
>
> Arv
> _._

Big old dish from an obsolete tv microwave system aimed at the city with
another one aimed down the hill. Depending on path loses, you may just
be able to use two horns from one dish to the other. The first thing to
be done is to find what you have to work with at the top of the hill.
You need to find the existing signal levels.. IF there is a high
mountain toward the side of the signal path you might be able to bounce
it off that mountain if it is mostly rock.

have fun.

John

John

From -5717519541483100538
X-Google-Thread: fc2a5,49f916e344873b4d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!feeder3.cambrium.nl!feeder1.cambrium.nl!
feed.tweaknews.nl!tudelft.nl!txtfeed1.tudelft.nl!feeder.news-service.com!
138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-08!sn-post-ams-02!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: Roger <GetValidAddress@my.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range rural wireless high speed data options...
Date: Wed, 28 Mar 2007 21:16:36 -0400
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <hq4m03pbhk4bl2jmkdl2rpoeig1724jl4r@4ax.com>
References: <1172947038.139960.11470@t69g2000cwt.googlegroups.com>
<45F4C32F.C2C53460@intergrafix.net>
<1173673088.652623.199630@t69g2000cwt.googlegroups.com>
<4609CC0F.5D8CC6EC@intergrafix.net>
X-Newsreader: Forte Agent 4.2/32.1117
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000728-2, 03/28/2007), Outbound message

```
X-Antivirus-Status: Clean
X-Complaints-To: abuse@supernews.com
Lines: 26
Xref: g2news1.google.com rec.radio.amateur.homebrew:12805

On Tue, 27 Mar 2007 20:59:43 -0500, John <amdinc@intergrafix.net>
wrote:

>Arv wrote:
>>
>> On 11 Mar, 21:04, John <amd...@intergrafix.net> wrote:
>> > Day Brown wrote:
>> >
>> > > Without clear Line Of Sight do not exist. I intend to solve that
>> > > problem. If I do, I'll get rich. The equipment now being offered is
>> > > not deigned by people who live in rural ares, but engineers who, at
>> > > best, are in suburban office parks.
>> >
>> > > Right now, I'm using the satellite data from hughes.net. Its not the
>> > > high speed bandwidth advertised. The power supply was designed to be
>> > > plugged into the wall. [that's a period] But if you live out here, you
>> > > know the power goes out. but if you plug their power supply into your
>> > > UPS, you find the damn thing blocks the next two backed up power
>> > > outlets. Hello?

Cheat. Use a very short extension cord between the UPS and the wall
wart.

Roger Halstead (K8RI & ARRL life member)
(N833R, S# CD-2 Worlds oldest Debonair)
www.rogerhalstead.com


From 986914728548205841
X-Google-Thread: fc2a5,7a7ec293678423ac,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y80g2000hsf.googlegroups.com!not-for-
mail
From: "gbowne1" <gbowne1@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: VCO
Date: 28 Mar 2007 23:45:34 -0700
Organization: http://groups.google.com
Lines: 13
Message-ID: <1175150734.923132.145930@y80g2000hsf.googlegroups.com>
NNTP-Posting-Host: 64.40.61.92
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1175150736 7398 127.0.0.1 (29 Mar 2007 06:45:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 29 Mar 2007 06:45:36 +0000 (UTC)
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y80g2000hsf.googlegroups.com; posting-host=64.40.61.92;
   posting-account=8BAS0Q0AAAAnJPh6jhjhjuvPq1nRIH_s
Xref: g2news1.google.com rec.radio.amateur.homebrew:12806
```

Well now, I'm onto bigger and better things.

I was doing a bit of reading lately and came across some interesting topic one being VCO. The VCO I saw used a Optical Shaft Encoder (OSE). The setup used was rather odd looking to me and didn't look that mechanically stable.

Could someone explain VCO to me? And, also what type of VCO would be the best in a transceiver considering the technology of the past 10 years? Are there digital VCO's?

Greg

```
From 4488277960823144l5
X-Google-Thread: fc2a5,5df10e3cbd958537,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-online.de!news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!newsfe2-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Russell King" <rusking@tesco.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: workbench radio projects
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <KILOh.30945$GI.20231@newsfe2-gui.ntli.net>
Date: Thu, 29 Mar 2007 09:32:26 GMT
NNTP-Posting-Host: 80.2.205.68
X-Complaints-To: http://www.ntlworld.com/netreport
X-Trace: newsfe2-gui.ntli.net 1175160746 80.2.205.68 (Thu, 29 Mar 2007 10:32:26 BST)
NNTP-Posting-Date: Thu, 29 Mar 2007 10:32:26 BST
Organization: ntl Cablemodem News Service
Xref: g2news1.google.com rec.radio.amateur.homebrew:12807
```

www.soldersmoke.com/

Only just read the sad news

though it happened two months ago.

Don't know if it was mentioned on here.

Russ

From 8869183597230706786
X-Google-Thread: f64c6,ed8bcc4052fa7a2c,start
X-Google-Thread: 107ada,ed8bcc4052fa7a2c,start
X-Google-Thread: fc2a5,ed8bcc4052fa7a2c,start
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.germany.com!newsfeed.datemas.de!news.datemas.de!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: FAQ - - "What is Ham radio"?
Date: Thu, 29 Mar 2007 12:41:41 +0100
Organization: Datemas.de http://www.datemas.de
Lines: 128
Message-ID: <eug8lj$3ui$1@news.datemas.de>
X-Trace: news.datemas.de
nx+2QWB3AFIWDQWfbuBWPZvUXua7IxABtSTJV2AdAIkzsFUc7BgLHQVHZgR7J+EcXo0hGx+nPbQziLTaQ0
wtPze7cnooXX1qpHEdH39Nd9ykX0Q3x/
t+9/4GO9VrIan6RTF7gvbFqftRawJEvILOo5eckc+t7x5RE+kib4Nz4YGLOnLQK0QfyA==
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Thu, 29 Mar 2007 11:41:39 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Priority: 3
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:106551 rec.radio.amateur.misc:35082
rec.radio.amateur.homebrew:12808

A necessary preface.....

(It is becoming increasingly difficult to fly the flag for
decency and for civilised behaviour in Radio Hammery.
However, there still exists the fundamental basis on
which Ham Radio is based, and that will never die.

This FAQ ("What Is Ham Radio?") will
be regularly published and will not be shouted or bullied
down. It is important that those of a technical bent, who
are the natural seed-corn of Radio Hammery and who
gravitate towards us to be the real novitiate, can
still find us, (and know that we are still here), their fellows.)

-----ooooo-----

So,.....What is Ham Radio?

Ham Radio is a technical pursuit for those who are interested in the science of radio wave propagation and who are also interested in the way that their radios function. It has a long-standing tradition of providing a source of engineers who are born naturals.

Ham Radio awakens in its aficionados a whole-life fascination with all things technical and gives an all-abiding curiosity to improve one's scientific knowledge. It's a great swimming pool, please dive in!

This excitement causes a wish to share the experience with ones fellow man, and shows itself in the gentlemanly traditions of Ham Radio.

Radio Hams are in a unique privileged position in that they can construct and operate their own equipment! No-one else has this privilege. Users, such as broadcasters, the po lice and armed farces, CBers and mobile phone users have to purchase ready-made gear. Manufacturers are not licensed to operate their gear. Radio Hams are qualified to design, build and then operate their own pieces of equipment. They do this with gusto, and also repair and modify their own equipment. This is a privilege well worth the effort to gain, and one to be jealously guarded.

The excitement that drives a Radio Ham starts with relatively simple technologies at first, perhaps making his own Wimshurst machine and primary cells. Small pieces of test equipment follow, possibly multimeters and signal generators. Then comes receivers and transmitters. It is with the latter that communication with like-minded technically motivated people takes off. The scope for technical development grows with the years and now encompasses DSP and DDS. There is also a great deal of excitement in the areas of computer programming to be learnt and applied.

The technical excitement motivates Radio Hams to compete with each other to determine who has designed and manufactured the best-quality station. This competitiveness is found in DXing, competitions and fox-hunts.

-----OOOOO----

However, beware! A Ham Radio licence is such a desirable thing to have that there are large numbers of people who wish to be thought of as Radio Hams when, in fact, they are nothing of the kind! Usually such people are a variation of the CB Radio hobbyist; they buy their radios off the shelf and send them back to be repaired; they are not interested in technical discussion and sneer at those who are; they have no idea how their radios work inside and have no wish to find out; they are free with rather silly personal insults.

-----ooooo-----

One infallible way to disambiguate the CB Radio Hobbyist from the _REAL_ Radio Ham is to solicit their view of the difference between CB Radio and Ham Radio. A Radio Ham will perceive Ham Radio to be a technical pursuit and will perceive CB Radio to be a social communications facility no different in essence to a land-line telephone or a GSM mobile in the hands of a 6-year-old. Thus a Radio Ham could also hold a CB licence safe in the knowledge that such a licence says no more about him than having a land-line telephone, whilst continuing to regard Ham Radio as a separate technical pursuit.

A CB Radio hobbyist, on the other hand, sees no difference between a Ham Radio licence and a CB Radio licence. To him, they are sisters-under-the-skin. Wrongly, the CB Radio Hobbyist then tries to classify himself as the equal of the Radio Ham when, in fact, he is nothing of the kind.

Ham Radio is not CB Radio and has no common ground with it! Ham Radio is _THE_ technical pursuit for gentlemen; CB Radio is the name for the operating hobby for those who buy their rigs and equipment off the shelf.

-----ooooo-----

If you are the sort of person who is motivated by a technical interest in how things work; if you took apart malfunctioning clocks, toasters and the like and put them right despite never having seen them working, then a Ham Radio licence is your traditional route! There has never been a shortage of such people, and those who gravitate towards such an interest have always been welcomed into our shacks and their interests fostered. There is not today, nor has there ever been, a need to go out and encourage and press children, children who have never expressed an interest in Ham Radio, to come into our shacks. Such an activity should cause eyebrows to be raised - what normal well-adjusted adults seek the social acquaintance of children?!

-----ooooo-----

Please remember that this FAQ is a _POSITIVE EXHORTATION_
to you to exert yourselves to join our fraternity!

From -7058996056300682777
X-Google-Thread: 107ada,ed8bcc4052fa7a2c
X-Google-Thread: fc2a5,ed8bcc4052fa7a2c
X-Google-Attributes: gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Xref: g2news1.google.com rec.radio.amateur.misc:35084
rec.radio.amateur.homebrew:12809
Newsgroups: rec.radio.amateur.misc,rec.radio.amateur.homebrew
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!boeing.com!not-for-mail
From: "R. Scott" <lintardspamtrap@scotts-home.net>
Subject: Re: FAQ - - "What is Ham radio"?
Message-ID: <JFo6x3.KMJ@news.boeing.com>
X-Mimeole: Produced By Microsoft MimeOLE V6.00.2900.2962
X-Priority: 3
X-Msmail-Priority: Normal
Lines: 11
Sender: nntp@news.boeing.com (Boeing NNTP News Access)
Organization: Spam Haters Mafia
X-Complaints-To: abuse@news.boeing.com
X-Complaints-To: abuse@news.boeing.com
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-Rfc2646: Format=Flowed; Response
References: <eug8lj$3ui$1@news.datemas.de>
Date: Thu, 29 Mar 2007 14:58:15 GMT

"G.A.Evans G4SDW" <me@privacy.net> wrote in message
news:eug8lj$3ui$1@news.datemas.de...

I remember when I joined Amateur Radio 30 odd years ago, all were welcomed.
Now we have a bunch
of grumpy old snobs who want things to be as of Old.

Scotty W7PSK

From 5134959436994784993
X-Google-Thread: 112d1e,5935a15b6aff2747
X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public

X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!newsmm00.sul.t-online.de!t-online.de!news.t-online.com!not-for-mail
From: "Helmut Sennewald" <helmutsennewald@t-online.de>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
Date: Mon, 19 Mar 2007 20:21:10 +0100
Organization: T-Online
Lines: 131
Message-ID: <etmnqs$hs4$02$1@news.t-online.com>
References: <12vte9djan9nbe3@news.supernews.com> <etmhdb$ka9$00$1@news.t-online.com> <12vtm7qlqs1pe31@news.supernews.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Trace: news.t-online.com 1174332060 02 18308 6dA16Ojv67dD-Wq 070319 19:21:00
X-Complaints-To: usenet-abuse@t-online.de
X-ID: T5SPzeZFoeaO0KNuZgwJ-wM3ECDGxbTTpnecYioAitQ7PJPNoc7C8f
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Xref: g2news1.google.com sci.electronics.design:208313 rec.radio.amateur.homebrew:12705

"Anthony Fremont" <spam-not@nowhere.com> schrieb im Newsbeitrag
news:12vtm7qlqs1pe31@news.supernews.com...
> Helmut Sennewald wrote:
>> Hello Anthony,
>>
>> 1.
>> Please set the following option to sitch off data
>> reduction/compression in the result file..
>>
>> .options plotwinsize=0
>>
>> 2.
>> You have to set a small maximum timestep in the .TRAN line too.
>> Maybe a value of 0.01*Period of oscillation if you hunt for very low
>> distortion.
>>
>>
>> Can you send me your file (.asc-file and model-file?) to check it?
>
> In alt.binaries.schematics.electronic I have posted the schematic, the
> asc-file and an oscilloscope screen shot from an actual circuit. Here is
> the asc-file contents:

Hello Anthony,

The large capacitance of C1 (10nF) has caused an interrupted oscillation.
Please change its value to 1000p and the oscillator will work as expected.
I have also added MEASURE-commands to measure the frequency.
View -> SPICE Error Log

Another method is using the FFT in the waveform viewer.

Best regards,
Helmut

Save as "osc1.asc".

```
Version 4
SHEET 1 880 708
WIRE -688 -96 -784 -96
WIRE -576 -96 -688 -96
WIRE -304 -96 -576 -96
WIRE -784 -64 -784 -96
WIRE -688 -64 -688 -96
WIRE -576 -16 -576 -96
WIRE -304 32 -304 -96
WIRE -784 48 -784 16
WIRE -688 48 -688 0
WIRE -576 80 -576 64
WIRE -480 80 -576 80
WIRE -432 80 -480 80
WIRE -368 80 -432 80
WIRE -576 128 -576 80
WIRE -432 144 -432 80
WIRE -576 240 -576 208
WIRE -432 240 -432 208
WIRE -304 240 -304 128
WIRE -304 240 -432 240
WIRE -240 240 -304 240
WIRE -160 240 -240 240
WIRE -64 240 -96 240
WIRE -32 240 -64 240
WIRE -576 272 -576 240
WIRE -432 272 -432 240
WIRE -32 272 -32 240
WIRE -304 288 -304 240
WIRE -32 368 -32 352
WIRE -576 384 -576 336
WIRE -432 384 -432 336
WIRE -432 384 -576 384
WIRE -304 384 -304 368
WIRE -304 384 -432 384
WIRE -432 416 -432 384
FLAG -784 48 0
FLAG -432 416 0
FLAG -688 48 0
FLAG -32 368 0
FLAG -64 240 out
FLAG -240 240 e
FLAG -480 80 b
FLAG -576 240 lc
SYMBOL voltage -784 -80 R0
WINDOW 123 0 0 Left 0
WINDOW 39 0 0 Left 0
SYMATTR InstName V1
SYMATTR Value 5.8
SYMBOL res -592 -32 R0
SYMATTR InstName R3
SYMATTR Value 100k
SYMBOL npn -368 32 R0
SYMATTR InstName Q3
SYMATTR Value 2N3904
SYMBOL cap -448 144 R0
SYMATTR InstName C1
SYMATTR Value 1000p
SYMBOL res -320 272 R0
SYMATTR InstName R7
SYMATTR Value 1k
SYMBOL cap -448 272 R0
SYMATTR InstName C2
SYMATTR Value 500p
SYMBOL ind -592 112 R0
WINDOW 39 36 108 Left 0
SYMATTR InstName L1
SYMATTR Value 20�
SYMATTR SpiceLine Rser=.1
SYMBOL cap -592 272 R0
SYMATTR InstName C3
SYMATTR Value 200p
SYMBOL cap -96 224 R90
WINDOW 0 0 32 VBottom 0
WINDOW 3 32 32 VTop 0
SYMATTR InstName C4
SYMATTR Value 270p
SYMBOL cap -704 -64 R0
SYMATTR InstName C5
SYMATTR Value 10�
SYMBOL res -48 256 R0
SYMATTR InstName R2
SYMATTR Value 100k
TEXT -824 -152 Left 0 !.tran 0 200uS 0 4n
TEXT -824 -184 Left 0 !.options plotwinsize=0
TEXT -816 472 Left 0 !.measure tran t1 FIND time WHEN V(out)=0 TD=90u RISE=1
TEXT -816 504 Left 0 !.measure tran t2 FIND time WHEN V(out)=0 TD=90u
RISE=101
TEXT -816 536 Left 0 !.measure tran f0 PARAM 100/(t2-t1)
TEXT -816 576 Left 0 ;View -> SPICE Error Log \nfor the measured frequency
TEXT -520 -184 Left 0 ;C1 changed to 1000p!
```

From -7963713123215498500
X-Google-Thread: 112d1e,5935a15b6aff2747
X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newshub.stanford.edu!sn-xt-sjc-02!sn-xt-sjc-10!sn-xt-sjc-01!sn-post-sjc-02!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
Date: Mon, 19 Mar 2007 15:07:21 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vtrc4ftudh741@news.supernews.com>
References: <12vte9djan9nbe3@news.supernews.com>
<TZidndwrZIQzV2PYnZ2dnUVZ_uiknZ2d@web-ster.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 44
Xref: g2news1.google.com sci.electronics.design:208327
rec.radio.amateur.homebrew:12706

Tim Wescott wrote:

> The secret to a beautiful waveform is -- you usually don't need it
> straight from the oscillator.

Okay..

> There are a lot of things that you want out of an LC oscillator. Low
> phase noise, frequency stability, consistently strong oscillation,
> pure tone, etc. Of these, the only two that you can't clean up later
> in the following amplifier chain is low phase noise and frequency
> stability. Concentrate on those, & don't sweat the nice waveform.

Okay, that certainly explains why all the sample circuits I find don't expend any great effort at creaing a nice sine wave, and none at explaining why. What you say certainly makes sense, especially if there are no really negative consequences of having the oscillator make a "less than perfectly shaped" wave.

> Frequency stability and phase noise performance are often achieved by
> intentionally designing the amplifier so the active element operates
> in class C, without ever going into voltage saturation. This keeps
> it's drain (or collector) impedance high, yet delivers a large
> voltage swing to the gate (or base) to keep phase noise low. It also
> gives you a more or less consistent standing voltage in the tank,
> which helps the design of the following buffer stages.

>
> If you absolutely positively must tap the World's Most Beautiful Sine
> Wave off of the oscillator section, consider a parallel-tuned tank
> that's loosely coupled to the active element. Then loosely couple
> your output tap to that -- it's your best chance.

Ok, thanks for the information. :-) I did allot of googling but found nothing that explained it like this. I was thinking of building a little single conversion superhet WWV receiver for 10MHz, if I continue with that I'll just concentrate on cleaning it up in another stage.

Some material I read suggested keeping Xl of L1 at ~300Ohms, the series Xc (C3) at ~200Ohms and Xc of C1/C2 at 45Ohms. Do you have any thoughts on that? Right now I have way too much inductance for 3.5MHz by that theory, and judging from other circuits I've seen. <10uH seems to be the going thing for around 4MHz?

```
From -6906563192772001847
X-Google-Thread: 112d1e,5935a15b6aff2747
X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 Mar 2007 15:46:17 -0500
From: "Tam/WB2TT" <t-tammaru@c0mca$t.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
References: <12vte9djan9nbe3@news.supernews.com>
<1174325260.708677.200790@l75g2000hse.googlegroups.com>
<12vtluftj22nrf0@news.supernews.com>
Subject: Re: LC Oscillator Questions
Date: Mon, 19 Mar 2007 16:46:29 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <MLydnZ5uI_YEa2PYnZ2dnUVZ_r6vnZ2d@comcast.com>
Lines: 35
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X-Trace: sv3-
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GoM3U2m/M0tHQUPSLfFIxDoTukG3tvlV5BTKwpP7UerkszE5CzsxEypYPu5om/wHvBb3UaiVS9T!M4/
rzhB9AmRf4h0vizqSYaY/DC2vJw==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

```
X-Postfilter: 1.3.34
Xref: g2news1.google.com sci.electronics.design:208337
rec.radio.amateur.homebrew:12707


"Anthony Fremont" <spam-not@nowhere.com> wrote in message
news:12vtluftj22nrf0@news.supernews.com...
> K7ITM wrote:
>> On Mar 19, 9:23 am, "Anthony Fremont" <spam-...@nowhere.com> wrote:
>> The waveform in a high Q tank that's lightly coupled to the amplifier
>> should be very nearly sinusoidal.  If in addition, the amplifier
>> remains linear and represents a constant impedance over the whole
>> cycle of the waveform, then the waveforms should everywhere be
>> sinusoidal.  If the amplifier+tank has barely enough loop gain to
>> sustain oscillation, then clipping will be minimal, but it's also
>> possible to detect the level and control the gain of the amplifier.
>> You could, for example, use a light bulb like HP did in their original
>> audio oscillator.  Beware, though, that best oscillator performance in
>> other regards may not be achieved the same way you achieve lowest
>> harmonic distortion.  Be careful that you optimize the right things
>> for your application.
>
> After reading the other replies, it seems aparent that the shape of the
> signal from the first stage is not that critical, it is stability and
> phase noise that are most important.  So, I should put things back where
> there is clipping to be sure that the oscillator oscillates and then clean
> up the signal in subsequent stages.
>
I have never seen clipping. These things are supposed to limit in cutoff,
not saturation. As the signal build up, the conduction angle gets smaller
and smaller until the device runs out of gain. That is another way of saying
that the DC value of the gate voltage gets more negative the bigger the
amplitude. This works out automatically with a JFET.  You need about 10K -
100K DC resistance from gate to ground. Using a bipolar transistor is not a
good idea.

Tam





From -1556069656595275O6
X-Google-Thread: 112d1e,5935a15b6aff2747
X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 Mar 2007 15:46:30 -0500
Date: Mon, 19 Mar 2007 13:48:00 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
```

X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
References: <12vte9djan9nbe3@news.supernews.com>
<TZidndwrZIQzV2PYnZ2dnUVZ_uiknZ2d@web-ster.com>
<12vtrc4ftudh741@news.supernews.com>
In-Reply-To: <12vtrc4ftudh741@news.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <7bidnSSyr7E7a2PYnZ2dnUVZ_hCdnZ2d@web-ster.com>
Lines: 73
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-
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Lp020bSYWeKC3GooV9wSC47PVmd4u70OftZo1kMRR7j9TSEP64ZgLs30ToZjkCfpJj/rf4TBMhrr!
qQP33NjOMXTCYFHZ
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com sci.electronics.design:208338
rec.radio.amateur.homebrew:12708

Anthony Fremont wrote:

> Tim Wescott wrote:
>
>
>>The secret to a beautiful waveform is -- you usually don't need it
>>straight from the oscillator.
>
>
> Okay..
>
>
>>There are a lot of things that you want out of an LC oscillator. Low
>>phase noise, frequency stability, consistently strong oscillation,
>>pure tone, etc. Of these, the only two that you can't clean up later
>>in the following amplifier chain is low phase noise and frequency
>>stability. Concentrate on those, & don't sweat the nice waveform.
>
>
> Okay, that certainly explains why all the sample circuits I find don't
> expend any great effort at creaing a nice sine wave, and none at explaining
> why. What you say certainly makes sense, especially if there are no really
> negative consequences of having the oscillator make a "less than perfectly
> shaped" wave.
>
>
>>Frequency stability and phase noise performance are often achieved by

>>intentionally designing the amplifier so the active element operates
>>in class C, without ever going into voltage saturation. This keeps
>>it's drain (or collector) impedance high, yet delivers a large
>>voltage swing to the gate (or base) to keep phase noise low. It also
>>gives you a more or less consistent standing voltage in the tank,
>>which helps the design of the following buffer stages.
>>
>>If you absolutely positively must tap the World's Most Beautiful Sine
>>Wave off of the oscillator section, consider a parallel-tuned tank
>>that's loosely coupled to the active element. Then loosely couple
>>your output tap to that -- it's your best chance.
>
>
> Ok, thanks for the information. :-) I did allot of googling but found
> nothing that explained it like this. I was thinking of building a little
> single conversion superhet WWV receiver for 10MHz, if I continue with that
> I'll just concentrate on cleaning it up in another stage.
>
> Some material I read suggested keeping Xl of L1 at ~300Ohms, the series Xc
> (C3) at ~200Ohms and Xc of C1/C2 at 45Ohms. Do you have any thoughts on
> that? Right now I have way too much inductance for 3.5MHz by that theory,
> and judging from other circuits I've seen. <10uH seems to be the going thing
> for around 4MHz?
>
>
That sounds more or less right. With a Clapp oscillator the main tank
is isolated by the series cap, so more of the energy is kept in the coil
and C3, and less of it shows up in C1, C2, and the transistor.

If you're driving a balanced mixer you want to have an LO signal that
doesn't have much even-harmonic (2nd, 4th, etc.) energy in it, but for a
casual receiver that's the least of your worries. Since you're
operating at a fixed frequency it may be a good idea to just feed the
oscillator output into a single-tuned resonant circuit to clean it up,
then send it on to the mixer.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From -5142911448425982424
X-Google-Thread: 112d1e,5935a15b6aff2747
X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news1.google.com!news2.google.com!news.germany.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!sn-xt-ams-06!sn-xt-ams-05!sn-ams!
sn-feed-ams-01!sn-post-ams-01!sn-post-sjc-01!supernews.com!news.supernews.com!not-
for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
Date: Mon, 19 Mar 2007 16:25:26 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vtvugsg3cp224@news.supernews.com>
References: <12vte9djan9nbe3@news.supernews.com>
<1174325260.708677.200790@l75g2000hse.googlegroups.com>
<12vtluftj22nrf0@news.supernews.com>
<MLydnZ5uI_YEa2PYnZ2dnUVZ_r6vnZ2d@comcast.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 15
Xref: g2news1.google.com sci.electronics.design:208346
rec.radio.amateur.homebrew:12709

Tam/WB2TT wrote:
> "Anthony Fremont" <spam-not@nowhere.com> wrote in message

> I have never seen clipping. These things are supposed to limit in
> cutoff, not saturation. As the signal build up, the conduction angle
> gets smaller and smaller until the device runs out of gain. That is
> another way of saying that the DC value of the gate voltage gets more
> negative the bigger the amplitude. This works out automatically with
> a JFET. You need about 10K - 100K DC resistance from gate to ground.
> Using a bipolar transistor is not a good idea.

I was wondering about the load that a bipolar would present. I will see if
I can find a JFET in my junk pile, thank you. :-)

From 4594954972037008060
X-Google-Thread: 112d1e,5935a15b6aff2747
X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newshub.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-03!sn-xt-sjc-09!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: Chris Jones <lugnut808@nospam.yahoo.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
Followup-To: sci.electronics.design

Date: Mon, 19 Mar 2007 22:22:11 +0000
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vu37ijfe3js80@corp.supernews.com>
References: <12vte9djan9nbe3@news.supernews.com>
User-Agent: KNode/0.7.7
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Complaints-To: abuse@supernews.com
Lines: 53
Xref: g2news1.google.com sci.electronics.design:208370
rec.radio.amateur.homebrew:12710

Anthony Fremont wrote:

> Pictures available in ABSE
>
> The top trace (yellow) is taken between C4 and R2. The bottom trace
> (cyan)
> is taken at the base of the transistor. There is a switchercad file, but
> the simulation will show allot of distortion that really isn't present in
> the prototype circuit, because of lots of circuit capactance I suspect.
> R1 was something I was playing with to try and tame the voltage across
> L1/C3 being applied to the base.
>
>
> Hello all,
>
> I was tinkering with this LC oscillator (Colpitts/Clapp) this weekend. I
> arrived at the values of C1 and C2 empirically after starting with a
> crystal
> oscillator circuit. The values in the original circuit created a horrid
> waveform that looked allot like the simulation. After much tinkering
> around and simulating, I come to the conclusion that getting a perfect
> waveform is
> nearly impossible, especially with big swing. It seems that the
> transistor likes to take a bite out of the right half of the peak of the
> wave.
>
> What is the secret to beautiful waveforms? Do I need another LC resonator
> on the output to fix it up? I mean, I'm getting a pretty nice wave now,
> but there is still some distortion that you can just see at the top of the
> peaks on the yellow trace.
>
> How do you control the peak voltages of an LC resonattor without mangling
> the waveform? The waveform at the junction of L1/C3 is of course quite
> beautiful, how do I get it from there to the output? ;-)
>
> I realize that I will need a buffer stage(s) before I can make any real
> use of the signal, but I want the input to the buffer to be as perfect as
> possible.
>
> Thanks :-)

In some LC oscillators, the amplitude of the oscillation is controlled by a feedback loop. For example, a rectifier can be used to create a DC voltage proportional to the oscillation amplitude on the LC tank, and then an op-amp can be used to compare the rectifier output signal to a reference voltage. The output from the op-amp can be filtered and then used to control the current in the oscillator core. It is difficult to do all of this in a way that keeps the phase noise low, but given the right simulation tools (e.g. SpectreRF which is rather expensive), good results can be obtained. In particular, a well-defined oscillation amplitude can help to keep the KVCO well controlled, which is useful in PLLs.

Chris

```
From -6215067810882391502
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X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-
sjc-01!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
Date: Mon, 19 Mar 2007 17:58:28 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vu5cva7kbdrba@news.supernews.com>
References: <12vte9djan9nbe3@news.supernews.com> <etmhdb$ka9$00$1@news.t-
online.com> <12vtm7qlqs1pe31@news.supernews.com> <etmnqs$hs4$02$1@news.t-
online.com>
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
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X-Complaints-To: abuse@supernews.com
Lines: 136
Xref: g2news1.google.com sci.electronics.design:208383
rec.radio.amateur.homebrew:12711
```

Helmut Sennewald wrote:
> "Anthony Fremont" <spam-not@nowhere.com> schrieb im Newsbeitrag
> news:12vtm7qlqs1pe31@news.supernews.com...
>> Helmut Sennewald wrote:
>>> Hello Anthony,
>>>
>>> 1.
>>> Please set the following option to sitch off data
>>> reduction/compression in the result file..
>>>
>>> .options plotwinsize=0
>>>

```
>>> 2.
>>> You have to set a small maximum timestep in the .TRAN line too.
>>> Maybe a value of 0.01*Period of oscillation if you hunt for very low
>>> distortion.
>>>
>>>
>>> Can you send me your file (.asc-file and model-file?) to check it?
>>
>> In alt.binaries.schematics.electronic I have posted the schematic,
>> the asc-file and an oscilloscope screen shot from an actual circuit.
>> Here is the asc-file contents:
>
>
> Hello Anthony,
>
> The large capacitance of C1 (10nF) has caused an interrupted
> oscillation. Please change its value to 1000p and the oscillator will
> work as expected. I have also added MEASURE-commands to measure the
> frequency. View -> SPICE Error Log
>
> Another method is using the FFT in the waveform viewer.
>
> Best regards,
> Helmut
>
> Save as "osc1.asc".
>
> Version 4
> SHEET 1 880 708
> WIRE -688 -96 -784 -96
> WIRE -576 -96 -688 -96
> WIRE -304 -96 -576 -96
> WIRE -784 -64 -784 -96
> WIRE -688 -64 -688 -96
> WIRE -576 -16 -576 -96
> WIRE -304 32 -304 -96
> WIRE -784 48 -784 16
> WIRE -688 48 -688 0
> WIRE -576 80 -576 64
> WIRE -480 80 -576 80
> WIRE -432 80 -480 80
> WIRE -368 80 -432 80
> WIRE -576 128 -576 80
> WIRE -432 144 -432 80
> WIRE -576 240 -576 208
> WIRE -432 240 -432 208
> WIRE -304 240 -304 128
> WIRE -304 240 -432 240
> WIRE -240 240 -304 240
> WIRE -160 240 -240 240
> WIRE -64 240 -96 240
> WIRE -32 240 -64 240
> WIRE -576 272 -576 240
> WIRE -432 272 -432 240
> WIRE -32 272 -32 240
> WIRE -304 288 -304 240
> WIRE -32 368 -32 352
> WIRE -576 384 -576 336
> WIRE -432 384 -432 336
> WIRE -432 384 -576 384
> WIRE -304 384 -304 368
> WIRE -304 384 -432 384
> WIRE -432 416 -432 384
> FLAG -784 48 0
> FLAG -432 416 0
> FLAG -688 48 0
> FLAG -32 368 0
> FLAG -64 240 out
> FLAG -240 240 e
> FLAG -480 80 b
> FLAG -576 240 lc
> SYMBOL voltage -784 -80 R0
> WINDOW 123 0 0 Left 0
> WINDOW 39 0 0 Left 0
> SYMATTR InstName V1
> SYMATTR Value 5.8
> SYMBOL res -592 -32 R0
> SYMATTR InstName R3
> SYMATTR Value 100k
> SYMBOL npn -368 32 R0
> SYMATTR InstName Q3
> SYMATTR Value 2N3904
> SYMBOL cap -448 144 R0
> SYMATTR InstName C1
> SYMATTR Value 1000p
> SYMBOL res -320 272 R0
> SYMATTR InstName R7
> SYMATTR Value 1k
> SYMBOL cap -448 272 R0
> SYMATTR InstName C2
> SYMATTR Value 500p
> SYMBOL ind -592 112 R0
> WINDOW 39 36 108 Left 0
> SYMATTR InstName L1
> SYMATTR Value 20�
> SYMATTR SpiceLine Rser=.1
> SYMBOL cap -592 272 R0
> SYMATTR InstName C3
> SYMATTR Value 200p
> SYMBOL cap -96 224 R90
> WINDOW 0 0 32 VBottom 0
> WINDOW 3 32 32 VTop 0
> SYMATTR InstName C4
> SYMATTR Value 270p
> SYMBOL cap -704 -64 R0
> SYMATTR InstName C5
> SYMATTR Value 10�
> SYMBOL res -48 256 R0
> SYMATTR InstName R2
> SYMATTR Value 100k
> TEXT -824 -152 Left 0 !.tran 0 200uS 0 4n
> TEXT -824 -184 Left 0 !.options plotwinsize=0
> TEXT -816 472 Left 0 !.measure tran t1 FIND time WHEN V(out)=0 TD=90u
> RISE=1 TEXT -816 504 Left 0 !.measure tran t2 FIND time WHEN V(out)=0
> TD=90u RISE=101
> TEXT -816 536 Left 0 !.measure tran f0 PARAM 100/(t2-t1)
> TEXT -816 576 Left 0 ;View -> SPICE Error Log \nfor the measured
> frequency TEXT -520 -184 Left 0 ;C1 changed to 1000p!

Thank you very much.  :-)  I have now switched to using an MPF102 JFET
instead of the bipolar and much less capacitance for C1 (now 470pF).  I only
get a 2V peak to peak signal out now, but it's quite nice looking.




From 8154465710735721237
X-Google-Thread: 112d1e,5935a15b6aff2747
X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!novia!amsnews11.chello.com!
border1.nntp.ams.giganews.com!nntp.giganews.com!sn-xt-ams-06!sn-xt-ams-03!sn-post-
ams-01!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
Date: Mon, 19 Mar 2007 18:22:20 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vu6pmoj6lttff@news.supernews.com>
References: <12vte9djan9nbe3@news.supernews.com>
<TZidndwrZIQzV2PYnZ2dnUVZ_uiknZ2d@web-ster.com>
<12vtrc4ftudh741@news.supernews.com> <7bidnSSyr7E7a2PYnZ2dnUVZ_hCdnZ2d@web-
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X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 30
Xref: g2news1.google.com sci.electronics.design:208395
rec.radio.amateur.homebrew:12712

Tim Wescott wrote:
> Anthony Fremont wrote:

>> Some material I read suggested keeping Xl of L1 at ~300Ohms, the
```

>> series Xc (C3) at ~200Ohms and Xc of C1/C2 at 45Ohms. Do you have
>> any thoughts on that? Right now I have way too much inductance for
>> 3.5MHz by that theory, and judging from other circuits I've seen.
>> <10uH seems to be the going thing for around 4MHz?
>>
>>
> That sounds more or less right. With a Clapp oscillator the main tank
> is isolated by the series cap, so more of the energy is kept in the
> coil and C3, and less of it shows up in C1, C2, and the transistor.
>
> If you're driving a balanced mixer you want to have an LO signal that
> doesn't have much even-harmonic (2nd, 4th, etc.) energy in it, but
> for a casual receiver that's the least of your worries. Since you're
> operating at a fixed frequency it may be a good idea to just feed the
> oscillator output into a single-tuned resonant circuit to clean it up,
> then send it on to the mixer.

Ok, I've now put in an MPF102 and changed R3 to a pull-down. I lowered C1
to 470pF and I get a nifty 2V p-p sine wave on the output. It really tamed
the tank circuit voltage down as well. Which brings up a question, with the
tank now completely DC blocked from Vcc and Vss, where does it get it's
energy. I assume that it must come thru the gate. How does that happen?
:-? My circuit is much like Figure 1 here, without the diode though:
http://www.electronics-tutorials.com/oscillators/clapp-oscillators.htm

```
From 2892798629980011956
X-Google-Thread: 112d1e,5935a15b6aff2747
X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 Mar 2007 18:51:21 -0500
Date: Mon, 19 Mar 2007 16:52:53 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
References: <12vte9djan9nbe3@news.supernews.com>
<TZidndwrZIQzV2PYnZ2dnUVZ_uiknZ2d@web-ster.com>
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uR768L0fztTehlzs
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com sci.electronics.design:208405
rec.radio.amateur.homebrew:12713

Anthony Fremont wrote:
> Tim Wescott wrote:
>
>>Anthony Fremont wrote:
>
>
>>>Some material I read suggested keeping Xl of L1 at ~300Ohms, the
>>>series Xc (C3) at ~200Ohms and Xc of C1/C2 at 45Ohms. Do you have
>>>any thoughts on that? Right now I have way too much inductance for
>>>3.5MHz by that theory, and judging from other circuits I've seen.
>>><10uH seems to be the going thing for around 4MHz?
>>>
>>>
>>
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>>is isolated by the series cap, so more of the energy is kept in the
>>coil and C3, and less of it shows up in C1, C2, and the transistor.
>>
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>
>
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> to 470pF and I get a nifty 2V p-p sine wave on the output. It really tamed
> the tank circuit voltage down as well. Which brings up a question, with the
> tank now completely DC blocked from Vcc and Vss, where does it get it's
> energy. I assume that it must come thru the gate. How does that happen?
> :-? My circuit is much like Figure 1 here, without the diode though:
> http://www.electronics-tutorials.com/oscillators/clapp-oscillators.htm
>
>
It comes from the source, through the coupling capacitors -- Cfb-a and
Cfb-b in your link.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

From 5962472861385545543
X-Google-Thread: 112d1e,5935a15b6aff2747
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X-Google-Language: ENGLISH,ASCII-7-bit
From: rebel <me@privacy.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
Date: Tue, 20 Mar 2007 09:00:13 +0800
Message-ID: <17cuv2lkghv67fcc26tj8vkqusjepbeflq@4ax.com>
References: <12vte9djan9nbe3@news.supernews.com>
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<MLydnZ5uI_YEa2PYnZ2dnUVZ_r6vnZ2d@comcast.com>
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Lines: 25
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Xref: g2news1.google.com sci.electronics.design:208408
rec.radio.amateur.homebrew:12714

On Mon, 19 Mar 2007 16:25:26 -0500, "Anthony Fremont" <spam-not@nowhere.com>
wrote:

>Tam/WB2TT wrote:
>> "Anthony Fremont" <spam-not@nowhere.com> wrote in message
>
>> I have never seen clipping. These things are supposed to limit in
>> cutoff, not saturation. As the signal build up, the conduction angle
>> gets smaller and smaller until the device runs out of gain. That is
>> another way of saying that the DC value of the gate voltage gets more
>> negative the bigger the amplitude. This works out automatically with
>> a JFET. You need about 10K - 100K DC resistance from gate to ground.
>> Using a bipolar transistor is not a good idea.
>

> I was wondering about the load that a bipolar would present. I will see if I can find a JFET in my junk pile, thank you. :-)

Without going to the purity levels that Tom requires, I've always found that bipolars can be used to produce a fairly reasonable "visibly sinusoidal" (see note) waveform. Follow the oscillator with an amplifier stage which drives a limiter/clipper, and use that to control a gain element in the oscillator. It's like the incandescent non-linearity arrangement except the oscillator stage waveform remains fairly clean.

(Note: Harmonic distortion not readily discernible on a CRO)

```
From -8985595871448015911
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X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-05!sn-xt-sjc-01!sn-xt-sjc-07!
sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
Date: Mon, 19 Mar 2007 19:14:37 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vu9ro46cpdka8@news.supernews.com>
References: <12vte9djan9nbe3@news.supernews.com>
<1174325260.708677.200790@l75g2000hse.googlegroups.com>
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X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
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X-RFC2646: Format=Flowed; Response
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Lines: 15
Xref: g2news1.google.com sci.electronics.design:208414
rec.radio.amateur.homebrew:12715
```

Tam/WB2TT wrote:

> I have never seen clipping. These things are supposed to limit in cutoff, not saturation. As the signal build up, the conduction angle gets smaller and smaller until the device runs out of gain. That is another way of saying that the DC value of the gate voltage gets more negative the bigger the amplitude. This works out automatically with a JFET. You need about 10K - 100K DC resistance from gate to ground. Using a bipolar transistor is not a good idea.

I have now changed it to an MPF102 that I've had laying around for many years. It works great, thanks.
:-)

```
From -7102714367213840287
X-Google-Thread: 112d1e,5935a15b6aff2747
X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
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news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 Mar 2007 19:40:46 -0500
From: "Tam/WB2TT" <t-tammaru@c0mca$t.net>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
References: <12vte9djan9nbe3@news.supernews.com>
<1174325260.708677.200790@l75g2000hse.googlegroups.com>
<12vtluftj22nrf0@news.supernews.com>
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<12vu9ro46cpdka8@news.supernews.com>
Subject: Re: LC Oscillator Questions
Date: Mon, 19 Mar 2007 20:40:58 -0400
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X-MSMail-Priority: Normal
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X-RFC2646: Format=Flowed; Response
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X-DMCA-Complaints-To: dmca@comcast.net
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com sci.electronics.design:208434
rec.radio.amateur.homebrew:12716
```

"Anthony Fremont" <spam-not@nowhere.com> wrote in message
news:12vu9ro46cpdka8@news.supernews.com...

> Tam/WB2TT wrote:
>
>> I have never seen clipping. These things are supposed to limit in
>> cutoff, not saturation. As the signal build up, the conduction angle
>> gets smaller and smaller until the device runs out of gain. That is
>> another way of saying that the DC value of the gate voltage gets more
>> negative the bigger the amplitude. This works out automatically with
>> a JFET. You need about 10K - 100K DC resistance from gate to ground.

>> Using a bipolar transistor is not a good idea.
>
> I have now changed it to an MPF102 that I've had laying around for many
> years. It works great, thanks.
> :-)
>

Glad it worked out. By the way the feedback path is through the capacitive network between source and gate. That would be more obvious in the configuration that uses a tapped inductor, but works the same way. Leaving out the diode was the right thing to do; it just adds to the noise. I don't know what kind of stability and linearity you need, but if that is important, do not use the common type of ceramic capacitors that are meant for bypassing. They are lossy, and their value varies with applied voltage. Use mica, NPO ceramic, or Mylar and similar for larger values.

Tam

From -3081695393879160467
X-Google-Thread: fc2a5,55f22888ef4f5b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!roadrunner.com!not-for-mail
Date: Mon, 19 Mar 2007 21:42:35 -0400
From: **THE-RFI-EMI-GUY** <rhyolite@nettally.com>
Organization: Central Scrutinizer
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Magnetron as RF transciever
References: <1174239611.534840.205810@l75g2000hse.googlegroups.com> <45fdbdd5$0$17190$4c368faf@roadrunner.com> <1174329832.066057.91000@d57g2000hsg.googlegroups.com>
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Lines: 192
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X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12717

This is a multi-part message in MIME format.
--------------050303030201070001050200
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit

yummy

vsurducan@gmail.com wrote:

>On Mar 18, 2:32 pm, **THE-RFI-EMI-GUY** <rhyol...@nettally.com> wrote:
>
>
>>Google for "Injection locked magnetron" or substitute "phase locking
>>magnetron" and go from there. The link is for one paper on the subject
>>covering phase locking as well as injection locking. Injection locking
>>uses a circulator on the output of the magenetron as a means to inject
>>signal from a stable source.
>>
>>http://www.vhfdx.net/docs/tahir.pdf
>>
>>By the way whats a "digestor"?
>>
>>
>
>Digester or digestor is a device wich is able to reproduce fast any
>digesting process
>(like the one inside your stomach) including soil, human tissues,
>chemicals etc.
>
>I think the links I saw was one of those:
>http://209.85.135.104/search?q=cache:lmKTArGaPb8J:gbppr.dyndns.org/mil/herf/
index.html+phase+locking+magnetron&hl=en&ct=clnk&cd=81
>
>unfortunetely I can't see only the cache...
>
>
>
>>
>>
>>
>>vasile wrote:
>>
>>
>>>Hello all,
>>>
>>>
>>>I'm manufacturing from a couple of years all sort of equipment for
>>>research (digestors, plasma generators, etc)using the microwave power
>>>field.
>>>One of these is here:http://incdtim.netfirms.com/digestor_new.jpg
>>>I was thinking I know everything about magnetrons. However some time
>>>ago I've discovered a site where the magnetron was used as CW
>>>transciever using a small power 12/4KV inverter.
>>>Unfortunately I didn't saved those pages and now I would love to see
>>>them again.
>>>Does any of you know about what I'm talking about ?
>>>
>>>
>>>thank you,

```
>>>Vasile
>>>
>>>
>>--
>>Joe Leikhim K4SAT
>>"The RFI-EMI-GUY"�
>>
>>"Treason doth never prosper: what's the reason?
>>For if it prosper, none dare call it treason."
>>
>>"Follow The Money"  ;-P- Hide quoted text -
>>
>>- Show quoted text -
>>
>>
>
>
>
>

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money"  ;-P



--------------050303030201070001050200
Content-Type: text/html; charset=us-ascii
Content-Transfer-Encoding: 7bit

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<head>
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  <title></title>
</head>
<body bgcolor="#ffffff" text="#000000">
yummy<br>
<br>
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href="mailto:vsurducan@gmail.com">vsurducan@gmail.com</a> wrote:<br>
<blockquote
 cite="mid1174329832.066057.91000@d57g2000hsg.googlegroups.com"
 type="cite">
  <pre wrap="">On Mar 18, 2:32 pm, **THE-RFI-EMI-GUY** <a class="moz-txt-link-
rfc2396E" href="mailto:rhyol...@nettally.com">&lt;rhyol...@nettally.com&gt;</a>
wrote:
  </pre>
  <blockquote type="cite">
    <pre wrap="">Google for "Injection locked magnetron" or substitute "phase
locking
magnetron" and go from there. The link is for one paper on the subject
covering phase locking as well as injection locking. Injection locking
uses a circulator on the output of the magenetron as a means to inject
signal from a stable source.

<a class="moz-txt-link-freetext" href="http://www.vhfdx.net/docs/
tahir.pdf">http://www.vhfdx.net/docs/tahir.pdf</a>

By the way whats a "digestor"?
    </pre>
  </blockquote>
  <pre wrap=""><!---->
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digesting process
(like the one inside your stomach) including soil, human tissues,
chemicals etc.

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<a class="moz-txt-link-freetext" href="http://209.85.135.104/search?
q=cache:lmKTArGaPb8J:gbppr.dyndns.org/mil/herf/
index.html+phase+locking+magnetron&hl=en&ct=clnk&cd=81">http://209.85.135.104/
search?q=cache:lmKTArGaPb8J:gbppr.dyndns.org/mil/herf/
index.html+phase+locking+magnetron&amp;hl=en&amp;ct=clnk&amp;cd=81</a>

unfortunetely I can't see only the cache...

  </pre>
  <blockquote type="cite">
    <pre wrap="">



vasile wrote:
    </pre>
    <blockquote type="cite">
      <pre wrap="">Hello all,
      </pre>
    </blockquote>
    <blockquote type="cite">
      <pre wrap="">I'm manufacturing from a couple of years all sort of equipment
for
research (digestors, plasma generators, etc)using the microwave power
field.
One of these is here:<a class="moz-txt-link-freetext" href="http://
incdtim.netfirms.com/digestor_new.jpg">http://incdtim.netfirms.com/
digestor_new.jpg</a>
I was thinking I know everything about magnetrons. However some time
ago I've discovered a site where the magnetron was used as CW
transciever using a small power 12/4KV inverter.
Unfortunately I didn't saved those pages and now I would love to see
```

```
them again.
Does any of you know about what I'm talking about ?
      </pre>
    </blockquote>
    <blockquote type="cite">
      <pre wrap="">thank you,
Vasile
      </pre>
    </blockquote>
    <pre wrap="">--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"&copy;

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money"  ;-P- Hide quoted text -

- Show quoted text -
    </pre>
  </blockquote>
  <pre wrap=""><!---->

  </pre>
</blockquote>
<br>
<pre class="moz-signature" cols="72">--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"&copy;

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money"  ;-P

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X-Google-Language: ENGLISH,ASCII-7-bit
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not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
```

Date: Mon, 19 Mar 2007 22:47:58 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vumbpdip9bof8@news.supernews.com>
References: <12vte9djan9nbe3@news.supernews.com>
<1174325260.708677.200790@l75g2000hse.googlegroups.com>
<12vtluftj22nrf0@news.supernews.com>
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X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 37
Xref: g2news1.google.com sci.electronics.design:208540
rec.radio.amateur.homebrew:12718

Tam/WB2TT wrote:
> "Anthony Fremont" <spam-not@nowhere.com> wrote in message

>> I have now changed it to an MPF102 that I've had laying around for
>> many years. It works great, thanks.
>> :-)
>>
> Glad it worked out. By the way the feedback path is through the
> capacitive network between source and gate. That would be more
> obvious in the configuration that uses a tapped inductor, but works

I had to play around with this quite a bit to get it running near 10MHz. It
seemed to be more picky about the cap ratios than their actual values.

> the same way. Leaving out the diode was the right thing to do; it
> just adds to the noise. I don't know what kind of stability and

I figured that it would cause horrid clipping the way it was installed. I
thought maybe the designer intended it to be the other way around to protect
the transistor from reverse voltages on the gate, hmm.... always something
to keep you guessing. ;-)

> linearity you need, but if that is important, do not use the common
> type of ceramic capacitors that are meant for bypassing. They are
> lossy, and their value varies with applied voltage. Use mica, NPO
> ceramic, or Mylar and similar for larger values.

I don't really "need" anything in particular, it's just an exercise to try
and learn something. I just used the ceramic caps because they were handy.
I didn't have a pile of NPO caps laying around. ;-) I d

Time to add a buffer now since the scope probes load it down so badly now.
I'm getting 1.1Vpp into the apparent 5M load of two scope probes. It's
probably pulled a ton off frequency as well. Let's see.....(removes one

probe).....yep, 90KHz rise in frequency after taking one probe off.

From 2676295722501103708
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
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feed118.news.tele.dk!news.tele.dk!small.news.tele.dk!
lnewsinpeer00.lnd.ops.eu.uu.net!emea.uu.net!peer-uk.news.demon.net!
kibo.news.demon.net!news.demon.co.uk!demon!g3ohx.demon.co.uk!
IanJacksonRemoveThisBit
From: Ian Jackson <IanJacksonRemoveThisBit@g3ohx.demon.co.uk>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Tue, 20 Mar 2007 12:08:57 +0000
Lines: 49
Message-ID: <ahkFgvOZ78$FFw28@g3ohx.demon.co.uk>
References: <12vdm9fk86gbr98@news.supernews.com>
 <1173875872.602199.152140@d57g2000hsg.googlegroups.com>
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 <1174050747.602251.158400@l75g2000hse.googlegroups.com>
 <lk1mv25kk4qi9pd81uktl5pgj3g6aggftf@4ax.com>
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 <8rbmv2p40cbj3ilf7u9lijqass6svojntt@4ax.com>
Reply-To: Ian Jackson <IanJackson@REMOVE-THIS-BITg3ohx.demon.co.uk>
NNTP-Posting-Host: g3ohx.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1174392543 25087 80.176.138.122 (20 Mar 2007 12:09:03 GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Tue, 20 Mar 2007 12:09:03 +0000 (UTC)
User-Agent: Turnpike/6.02-S (<TJ0VKlySlxi7kGP8bkzInRG7RW>)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12719
sci.electronics.basics:48370 sci.electronics.design:208608

In message <8rbmv2p40cbj3ilf7u9lijqass6svojntt@4ax.com>, Joop
<jojo@chello.nl> writes
>On Fri, 16 Mar 2007 22:51:34 GMT, "colin"
><colin.rowe1@ntworld.NOSPAM.com> wrote:
>>The reason for the parallel inductance in the overtone mode is the
>>low impedance of the crystal self capacitance at high frequencies,
>>this on its own can be quite low, and the series resistance
>>at overtone can be quite high, so this can allow the tank circuit to
>>dominate rather than the crystal unless it is cancelled.

>>
>I know why the inductor is usually necessary. The thing is that for
>the purpose of the Butler the effect of C0 can be neutralized.
>The question is whether it can be made to have a similar effect in the
>"pulling arena" as well. Of course it should not have to much side
>effects in normal operation of the oscillator.
>
>In the overtone butler there is also another LC resonance circuit
>present that determines the possible operating frequency (read desired
>overtone). Such a thing might be necessary in most circuits where an
>inductor is placed in parallel with a crystal.
>
>Joop

I've eventually found some good plots of the frequency responses of crystals (see below).

http://g4oep.atspace.com/crystal_filters/signal_frequency_crystal_filters.htm#4)%20Single-Crystal%20Ladder.

This info from G4OEP is about filters, rather than VXOs, but it graphically illustrates how a crystal can be neutralised in a bridge circuit, using a small capacitor rather than large inductor. The capacitor will be the same value as the parallel capacity of the crystal.

The plots in Figs 9, 10 and 12 also show how the throughput peak moves around to some extent as the neutralization is adjusted. The circuit is essentially the same as I used when I was testing a load of crystals to see if they met spec wrt frequency accuracy and ESR.

You should be able to use the circuit of the single crystal filter (in-to-out, without the resistive padding etc) as the resonant part in a VXO, and adjust the neutralization to pull the frequency of oscillation. It's worth a try.

Ian.
--

From 429871709428729831
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X-Google-Thread: fc2a5,5935a15b6aff2747
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n76g2000hsh.googlegroups.com!not-for-mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
Date: 20 Mar 2007 08:00:27 -0700

Organization: http://groups.google.com
Lines: 61
Message-ID: <1174402827.009676.112430@n76g2000hsh.googlegroups.com>
References: <12vte9djan9nbe3@news.supernews.com>
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   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com sci.electronics.design:208675
rec.radio.amateur.homebrew:12720

On Mar 19, 12:23 pm, "Anthony Fremont" <spam-...@nowhere.com> wrote:

> Pictures available in ABSE
>
> The top trace (yellow) is taken between C4 and R2. The bottom trace (cyan) is taken at the base of the transistor. There is a switchercad file, but the simulation will show allot of distortion that really isn't present in the prototype circuit, because of lots of circuit capactance I suspect. R1 was something I was playing with to try and tame the voltage across L1/C3 being applied to the base.
>
> Hello all,
>
> I was tinkering with this LC oscillator (Colpitts/Clapp) this weekend. I arrived at the values of C1 and C2 empirically after starting with a crystal oscillator circuit. The values in the original circuit created a horrid waveform that looked allot like the simulation. After much tinkering around and simulating, I come to the conclusion that getting a perfect waveform is nearly impossible, especially with big swing. It seems that the transistor likes to take a bite out of the right half of the peak of the wave.
>
> What is the secret to beautiful waveforms? Do I need another LC resonator on the output to fix it up? I mean, I'm getting a pretty nice wave now, but there is still some distortion that you can just see at the top of the peaks on the yellow trace.
>
> How do you control the peak voltages of an LC resonattor without mangling the waveform? The waveform at the junction of L1/C3 is of course quite beautiful, how do I get it from there to the output? ;-)

Oscillators have to have gain greater than one at the frequency of oscillation.

When turned on, the amplitude builds up until something in the circuit cuts back the gain. In simple oscillators, that "something that cuts back the gain" is almost always the active device saturating and distorting its output.

The higher your gain, the more reliable the oscillator starting up, but also the higher the distortion.

If you take the output not from the output of the active device, but from a lightly-coupled tank, then you'll see something much more like the sine wave you were expecting. This is what you see at the L1/C3 junction. But still you'll get lower distortion there if the active device isn't driven so far into saturation/distortion. And by definition you cannot suck much power out of the L1/C3 junction without decreasing the Q of the tank and making distortion there too.

You can add a few more active devices and not only buffer things but also put a fairly linear AGC in the loop. This still has distortion, but this is done intentionally in a rectifier to derive the AGC control voltage, which is then filtered. The intentional distortion does not have to appear in the output!

Clever use of devices can make the AGC loop quite beautiful. Look at the Wien Bridge or Meacham Bridge oscillators that use a light bulb in the bridge to not only be the loop-control device but also do filtering (thermal time constant of the filament).

Tim.

```
From -5732402115482701748
X-Google-Thread: 112d1e,5935a15b6aff2747
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zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: "john jardine" <john@jjdesigns.fsnet.co.uk>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
References: <12vte9djan9nbe3@news.supernews.com>
Subject: Re: LC Oscillator Questions
Date: Mon, 19 Mar 2007 23:24:01 -0000
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Lines: 62
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NNTP-Posting-Date: 19 Mar 2007 22:30:39 GMT
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Xref: g2news1.google.com sci.electronics.design:208713
rec.radio.amateur.homebrew:12721
```

"Anthony Fremont" <spam-not@nowhere.com> wrote in message
news:12vte9djan9nbe3@news.supernews.com...

> Pictures available in ABSE
>
> The top trace (yellow) is taken between C4 and R2. The bottom trace (cyan) is taken at the base of the transistor. There is a switchercad file, but the simulation will show allot of distortion that really isn't present in the prototype circuit, because of lots of circuit capactance I suspect. R1 was something I was playing with to try and tame the voltage across L1/C3 being applied to the base.
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>
> How do you control the peak voltages of an LC resonattor without mangling the waveform? The waveform at the junction of L1/C3 is of course quite beautiful, how do I get it from there to the output? ;-)
>
> I realize that I will need a buffer stage(s) before I can make any real use of the signal, but I want the input to the buffer to be as perfect as possible.
>
> Thanks :-)

The prettiest waveforms come from balanced oscillators. Distortion then turns up as 3rd 5th 7th etc harmonics which are far less ugly than the 2nd 3rd 4th 5th etc generated by the single ended types. Balanced ALC is also easier and more effective.
My own experience says that 'prettier' is better. Those oscillators offering gross distorted outputs also seem to suffer badly in other areas and gross

distortion always causes problems further down the line.
Procuring good quality is a classic black art, one aspect is to allow the
LC just an occasional vague glimpse of the maintaining amplifier. Another is
to cause limiting by use of an amp having a gentle gain change (eg Fet v
bipolar) and the other is ALC. (Or all three together).
Failing that, there is always the cop-out of an output filter :)
john

--
Posted via a free Usenet account from http://www.teranews.com

From -7404154366155849413
X-Google-Thread: 112d1e,5935a15b6aff2747
X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!feeder.news-service.com!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-03!sn-ams!sn-feed-ams-02!sn-post-ams-02!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
Date: Tue, 20 Mar 2007 18:32:59 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1300rpo8vche743@news.supernews.com>
References: <12vte9djan9nbe3@news.supernews.com>
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X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 31
Xref: g2news1.google.com sci.electronics.design:208849 rec.radio.amateur.homebrew:12722

john jardine wrote:

> The prettiest waveforms come from balanced oscillators. Distortion
> then turns up as 3rd 5th 7th etc harmonics which are far less ugly
> than the 2nd 3rd 4th 5th etc generated by the single ended types.
> Balanced ALC is also easier and more effective.

The "conversation" that L1 and C3 sure looks nice on the scope. :-)

> My own experience says that 'prettier' is better. Those oscillators

```
> offering gross distorted outputs also seem to suffer badly in other
> areas and gross distortion always causes problems further down the
> line.

> Procuring good quality is  a classic black art, one aspect is to
> allow the LC just an occasional vague glimpse of the maintaining
> amplifier. Another is to cause limiting by use of an amp having a
> gentle gain change (eg Fet v bipolar) and the other is ALC. (Or all
> three together).

Well there sure isn't much talk about it out there.  Material I find is
like, "here's a schematic, pick a coil and cap and your done.  No one seems
to care what the result looks like.  Seems like you can make a reasonably
decent wave _and_ still have the oscillator start reliably.

> Failing that, there is always the cop-out of an output filter :)

Seems to be the way people like to do it.  ;-)
> john




From -5689550418081454469
X-Google-Thread: 112d1e,5935a15b6aff2747
X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!
feeder.news-service.com!feeder1.cambrium.nl!feed.tweaknews.nl!
138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-04!sn-ams!sn-feed-ams-03!sn-post-
ams-02!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
Date: Tue, 20 Mar 2007 18:43:41 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1300sdp7mq08ta8@news.supernews.com>
References: <12vte9djan9nbe3@news.supernews.com>
<1174402827.009676.112430@n76g2000hsh.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 44
Xref: g2news1.google.com sci.electronics.design:208852
rec.radio.amateur.homebrew:12723

Tim Shoppa wrote:
```

> Oscillators have to have gain greater than one at the frequency of
> oscillation.
>
> When turned on, the amplitude builds up until something in the circuit
> cuts back the gain. In simple oscillators, that "something that cuts
> back the gain" is almost always the active device saturating and
> distorting its output.
>
> The higher your gain, the more reliable the oscillator starting up,
> but also the higher the distortion.
>
> If you take the output not from the output of the active device, but
> from a lightly-coupled tank, then you'll see something much more like
> the sine wave you were expecting. This is what you see at the L1/C3
> junction. But still you'll get lower distortion there if the active
> device isn't driven so far into saturation/distortion. And by
> definition you cannot suck much power out of the L1/C3 junction
> without decreasing the Q of the tank and making distortion there too.

It seams reasonable that if I can look at the junction with a scope and the
wave looks good, I should be able to tap it with a secondary JFET without
destroying it. Yet I see no examples of that being done. I guess it's just
easier to accomplish the waveform repair by using a tank on the output of
the oscillator and not loading down the primary tank circuit.

> You can add a few more active devices and not only buffer things but
> also put a fairly linear AGC in the loop. This still has distortion,
> but this is done intentionally in a rectifier to derive the AGC
> control voltage, which is then filtered. The intentional distortion
> does not have to appear in the output!

This sounds like what Chris Jones was talking about. Do you have a link so
I could check it out?

> Clever use of devices can make the AGC loop quite beautiful. Look at
> the Wien Bridge or Meacham Bridge oscillators that use a light bulb in
> the bridge to not only be the loop-control device but also do
> filtering (thermal time constant of the filament).

Clever stuff. :-)

From 7517004568129315808
X-Google-Thread: fc2a5,962cd6a2eca956d0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n59g2000hsh.googlegroups.com!not-for-mail
From: "gbowne1" <gbowne1@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My Introductory Post..

```
Date: 20 Mar 2007 22:33:42 -0700
Organization: http://groups.google.com
Lines: 7
Message-ID: <1174455222.492207.322690@n59g2000hsh.googlegroups.com>
References: <1174105575.470841.192420@l77g2000hsb.googlegroups.com>
   <1174111984.355611.295310@n76g2000hsh.googlegroups.com>
   <1174159541.036668.149610@p15g2000hsd.googlegroups.com>
   <1174180232.515613.54720@o5g2000hsb.googlegroups.com>
   <1174254323.856381.237460@e65g2000hsc.googlegroups.com>
   <etm20v$dug@unix1.cc.ksu.edu>
NNTP-Posting-Host: 66.109.201.10
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X-Trace: posting.google.com 1174455223 6559 127.0.0.1 (21 Mar 2007 05:33:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 21 Mar 2007 05:33:43 +0000 (UTC)
In-Reply-To: <etm20v$dug@unix1.cc.ksu.edu>
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n59g2000hsh.googlegroups.com; posting-host=66.109.201.10;
   posting-account=8BAS0Q0AAAAnJPh6jhjhjuvPq1nRIH_s
Xref: g2news1.google.com rec.radio.amateur.homebrew:12724
```

Interesting..

Well, I'll let you know how I go about this.

Greg

```
From -3071770077788046961
X-Google-Thread: 112d1e,5935a15b6aff2747
X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.glorb.com!news.tele.dk!
feed118.news.tele.dk!news.tele.dk!small.news.tele.dk!
lnewsinpeer00.lnd.ops.eu.uu.net!emea.uu.net!peer-uk.news.demon.net!
kibo.news.demon.net!mutlu.news.demon.net!news.demon.co.uk!demon!
ledelec.demon.co.uk!tonyw
From: Tony Williams <tonyw@ledelec.demon.co.uk>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
Date: Wed, 21 Mar 2007 08:31:43 +0000
Lines: 16
Message-ID: <ghw$9AFv1OAGFwlk@ledelec.demon.co.uk>
References: <12vte9djan9nbe3@news.supernews.com>
NNTP-Posting-Host: ledelec.demon.co.uk
Mime-Version: 1.0
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Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1174466004 17647 83.105.38.95 (21 Mar 2007 08:33:24 GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Wed, 21 Mar 2007 08:33:24 +0000 (UTC)
User-Agent: Turnpike/6.06-S (<HBcWgzFCZF+UhNvhTo8ieVF6aV>)
Xref: g2news1.google.com sci.electronics.design:209047
rec.radio.amateur.homebrew:12725
```

In message <12vte9djan9nbe3@news.supernews.com>, Anthony Fremont
<spam-not@nowhere.com> writes
[snip]

>What is the secret to beautiful waveforms? Do I need another LC resonator
>on the output to fix it up? I mean, I'm getting a pretty nice wave now, but
>there is still some distortion that you can just see at the top of the peaks
>on the yellow trace.

Symmetry is a nice word to use where LC resonance is concerned.
Symmetry for the drive and clipping mechanisms.

Have a look at a long-tail transistor pair with cross-coupled
collector-base feedback resistors, and collectors driving a
centre-tapped LC resonant circuit.

--
Tony Williams

```
From -2716971240949717l8
X-Google-Thread: 112d1e,5935a15b6aff2747
X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l77g2000hsb.googlegroups.com!not-for-
mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
Date: 21 Mar 2007 06:07:34 -0700
Organization: http://groups.google.com
Lines: 31
Message-ID: <1174482453.728970.137580@l77g2000hsb.googlegroups.com>
References: <12vte9djan9nbe3@news.supernews.com>
   <1174402827.009676.112430@n76g2000hsh.googlegroups.com>
   <1300sdp7mq08ta8@news.supernews.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174482455 31746 127.0.0.1 (21 Mar 2007 13:07:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 21 Mar 2007 13:07:35 +0000 (UTC)
In-Reply-To: <1300sdp7mq08ta8@news.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
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Complaints-To: groups-abuse@google.com
Injection-Info: l77g2000hsb.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com sci.electronics.design:209092
rec.radio.amateur.homebrew:12726

On Mar 20, 7:43 pm, "Anthony Fremont" <spam-...@nowhere.com> wrote:
> > You can add a few more active devices and not only buffer things but
> > also put a fairly linear AGC in the loop. This still has distortion,
> > but this is done intentionally in a rectifier to derive the AGC
> > control voltage, which is then filtered. The intentional distortion
> > does not have to appear in the output!
>
> This sounds like what Chris Jones was talking about.  Do you have a link so
> I could check it out?

A "classic" oscillator with AGC is the Sulzer Oscillator. Very nice
pics and schematics at

  http://leapsecond.com/museum/sul25-1/

> > Clever use of devices can make the AGC loop quite beautiful. Look at
> > the Wien Bridge or Meacham Bridge oscillators that use a light bulb in
> > the bridge to not only be the loop-control device but also do
> > filtering (thermal time constant of the filament).
>
> Clever stuff.  :-)

For really nitty-gritty stuff about low-distortion oscillators, see
Jim Williams' examples in Linear Technologies appnote AN-43. (Go to
http://www.linear.com/ and do a search for "AN43" without the hyphen).
Most of the examples there are bridges, and distortions in the
sub-0.1% category are achieved AND THEN IMPROVED UPON BY FACTORS OF
HUNDREDS! Also google "Meacham Bridge" and "Wien Bridge".

Tim.



From -6283387413128996937
X-Google-Thread: 112d1e,5935a15b6aff2747
X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l77g2000hsb.googlegroups.com!not-for-
mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
Date: 21 Mar 2007 06:23:35 -0700
Organization: http://groups.google.com
Lines: 27
Message-ID: <1174483415.027271.175980@l77g2000hsb.googlegroups.com>
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References: <12vte9djan9nbe3@news.supernews.com>
   <1174402827.009676.112430@n76g2000hsh.googlegroups.com>
   <1300sdp7mq08ta8@news.supernews.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
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X-Trace: posting.google.com 1174483417 1780 127.0.0.1 (21 Mar 2007 13:23:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 21 Mar 2007 13:23:37 +0000 (UTC)
In-Reply-To: <1300sdp7mq08ta8@news.supernews.com>
User-Agent: G2/1.0
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Injection-Info: l77g2000hsb.googlegroups.com; posting-host=170.121.15.35;
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Xref: g2news1.google.com sci.electronics.design:209098 rec.radio.amateur.homebrew:12727

On Mar 20, 7:43 pm, "Anthony Fremont" <spam-...@nowhere.com> wrote:
> This sounds like what Chris Jones was talking about. Do you have a link so
> I could check it out?

In addition to the low-noise-low-distortion-high-stability URL's I pointed you towards in my other followup, recent ARRL Handbooks have some really clever low-noise VFO circuits using a multitude of approaches, including explicit AGC circuitry. I have been slowly working my way through the cookbook examples and every example has its merits.

In typical ham use, for better or worse, stability and reliability to start-up are often the most important criteria. What you are complaining about when you see a distorted output, is something that is actually a design goal of oscillators that are followed by multipliers.

One very common method over the years of decoupling the frequency-determining tuned circuits from other frequencies generated in a radio is to run the oscillator grid tank at half the output frequency and depend on distorition to make the desired output frequency. In the simplest case a balanced or push-pull oscillator is a "No-No" because you WANT the second harmonic. The electron-coupled oscillator that was in the 50's/60's/early 70's handbooks is a classic design.

Tim.

From -1745497997004764734
X-Google-Thread: 112d1e,5935a15b6aff2747
X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news1.google.com!postnews.google.com!y66g2000hsf.googlegroups.com!not-for-mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
Date: 21 Mar 2007 08:58:13 -0700
Organization: http://groups.google.com
Lines: 25
Message-ID: <1174492693.729896.149610@y66g2000hsf.googlegroups.com>
References: <12vte9djan9nbe3@news.supernews.com>
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   <1300rpo8vche743@news.supernews.com>
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Mime-Version: 1.0
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NNTP-Posting-Date: Wed, 21 Mar 2007 15:58:15 +0000 (UTC)
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Gecko/20070216 Firefox/1.5.0.10,gzip(gfe),gzip(gfe)
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Xref: g2news1.google.com sci.electronics.design:209156
rec.radio.amateur.homebrew:12728

On Mar 20, 4:32 pm, "Anthony Fremont" <spam-...@nowhere.com> wrote:

>
> Well there sure isn't much talk about it out there. Material I find is
> like, "here's a schematic, pick a coil and cap and your done. No one seems
> to care what the result looks like. Seems like you can make a reasonably
> decent wave _and_ still have the oscillator start reliably.
>

Some people worry a whole lot about it. What they worry about,
typically, is phase noise first and stability second. Lack of
harmonics in the waveform are generally lower on the list. That's
because filtering out harmonics is relatively easy, compared with
cleaning up phase noise and stability problems. You can find lots of
articles on minimizing phase noise, but there's also quite a bit of
trade-secret sorts of knowledge whose owners aren't particularly
interested in sharing, understandably. It's far from trivial to get
the phase noise and spurious performance you'll find in the good
commercial signal generators. Good as they are, though, I know of
none that's good enough to be used without harmonic filtering to do
low-level harmonic distortion measurements.

Cheers,
Tom

```
From -4538391999331746597
X-Google-Thread: fc2a5,318fb3bc23ccaa99
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X-Google-Thread: 112d1e,318fb3bc23ccaa99
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.glorb.com!news-in.ntli.net!
newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe4-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "loii" <dougfgd@gmail.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
References: <12vdm9fk86gbr98@news.supernews.com>
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<7RwNs6AN$P+FFwJO@g3ohx.demon.co.uk> <lDuKh.7998$vV3.3900@trndny09>
Subject: Re: VCXO frequency isn't high enough
Lines: 87
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
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NNTP-Posting-Date: Wed, 21 Mar 2007 16:19:16 GMT
Organization: ntl Cablemodem News Service
Xref: g2news1.google.com rec.radio.amateur.homebrew:12729
sci.electronics.basics:48527 sci.electronics.design:209169
```

"W3JDR" <joe@roccis.com> wrote in message
news:lDuKh.7998$vV3.3900@trndny09...

> Just to set the record straight....
>
> Someone suggested that you need to 'neutralize' the parallel resonance so
> the series resonance can be tuned toward it. This is completely wrong! The
> series resonance is, for practical purposes, invariant. The motional
> parameters (L and C) of the series resonance are such high reactances
> (small capacitance; high inductance) that external components have only a
> tiny influence on the series resonance.
>
> The series resonant frequency is the lower of the two crystal
> 'resonances'. The parallel resonance is above it. When you make a VCXO
> with any substantial tuneability, you're probably operating the crystal at
> its parallel resonance. This leads to the common observation that you can
> 'pull' a crystal up in frequency more than you you can pull it down. You

> can only pull the parallel resonance to approach the series resonant
> frequency, but you can't pass it because the crystal is effectively a
> short-circuit at that frequency.
>
> Also for the record, the crystal's quartz only has one fundamental and
> significant natural resonance - the series resonance. The so-called
> 'parallel resonance' is actually a controlled spurious resonance caused by
> the holder capacitance. At frequencies above series resonanve, the
> crystal's RLC equivalent looks inductive, and at some frequency the holder
> capacitance will resonate that net inductance.
>
> Joe
> W3JDR
>
>
> "Ian Jackson" <IanJacksonRemoveThisBit@g3ohx.demon.co.uk> wrote in message
> news:7RwNs6AN$P+FFwJO@g3ohx.demon.co.uk...
>> In message <12vh20ce6q8sr48@news.supernews.com>, Anthony Fremont
>> <spam-not@nowhere.com> writes
>>>Ian Jackson wrote:
>>
>>>>
>>>> As I said, sorry for the ramble.
>>>> Ian.
>>>
>>>OMG are you kidding, don't be sorry. Thank you way so much!!! :-)))
>>>You
>>>should set your clock to way in the future and repost that message so it
>>>sticks around for a while. ;-)
>>>
>>>So to make a long story short I need to put an inductor of roughly 400uH
>>>across the crystal to cancel the 5pF of C2.   Wow that's a ton of
>>>inductance, but about 27 turns on a FT50-43 ferrite torroid ought to do
>>>it.
>>>I'll let you know how that works out. I found another crystal,
>>>unfortunately it's identical and possibly from the same batch. I haven't
>>>tried it yet, but I'm not expecting any miracles. I'm tired of burning
>>>my
>>>fingers unsoldering parts, so I'm goint to tinker on the breadboard with
>>>another 602 set up just for the oscillator testing with capacitor
>>>changes.
>>>I will apply the new coil to the soldered up version though.
>>>
>>>The receiver hears, as we just had a storm earlier and I could hear
>>>lightning crashes in the distance. In my narrow tuning range, I can hear
>>>what is likely the carrier of a broadcaster too, or maybe my TV. Later
>>>tonight when the band opens up some more, I should hear something from
>>>W1AW
>>>hopefully.
>>>
>>>Thanks again
>>>
>>>

>>
>> As you say, at around 3.5MHz, you will need a fairly large inductor to
>> resonate with 5pF. An alternative might be to make a bridge circuit,
>> where you actually use another (5pF) capacitor to balance out the
>> unwanted 5pF. I used to use an extremely simple balancing circuit to make
>> accurate measurements of the resonant frequencies and ESRs (equivalent
>> series resistance) of VHF crystals, and it should be possible to use
>> something similar in an oscillator. However, maybe someone out there can
>> advise on a tried-and-tested circuit which will definitely work. [There's
>> no point in re-inventing the wheel!]
>> Ian.
>> --
>>
>
>

From -9177477650555329987
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l77g2000hsb.googlegroups.com!not-for-mail
From: btadeyl001@hotmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: One crystal with several mixers?
Date: 21 Mar 2007 10:32:14 -0700
Organization: http://groups.google.com
Lines: 13
Message-ID: <1174498334.641411.197630@l77g2000hsb.googlegroups.com>
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Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174498336 10068 127.0.0.1 (21 Mar 2007 17:32:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 21 Mar 2007 17:32:16 +0000 (UTC)
In-Reply-To: <45fe0037$0$17148$4c368faf@roadrunner.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.0; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l77g2000hsb.googlegroups.com; posting-host=151.200.90.2;
   posting-account=nuh58A0AAABnj1rOxDMxQSzcUkS-Ga_I
Xref: g2news1.google.com rec.radio.amateur.homebrew:12730

One thought we've had is to build a SA602/SA605-based fundamental mode
Colpitts oscillator (with two capacitors and the crystal) and then tap
into the mixer output, leaving the RF intput disconnected. If the
mixer does not mix with anything, we will get an amplified/buffered

13.56MHz signal. Would this not work?

Also, I am not clear how to chose the capacitor values for the Colpitts oscillator - there is no guidance in the application notes. I think these values are not critical? Our crystal frequency is 13.105MHz.

Ben

From -8113423510649400119
X-Google-Thread: fc2a5,3a5bd22d7f910fd1,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.germany.com!feeder.news-service.com!news2.euro.net!66.150.105.54.MISMATCH!nntpserver.com!zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: The Harry Thomas Show - week in review 03/21/07
From: Harry Thomas <harrythomas@nospam.netzero.net>
Organization: pfabf
Message-ID: <Xns98FB65AA39C7harrythomasnospamnet@66.150.105.47>
User-Agent: Xnews/5.04.25
Date: 22 Mar 2007 03:44:12 GMT
Lines: 51
NNTP-Posting-Date: 22 Mar 2007 03:44:12 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12731

The Harry Thomas Show - week in review 03/21/07
http://harrythomas.mysite.com/
Listen to the show right from the website.

This weeks topics include - Charlie Sheen, Rosie O'donnell, Global Warming , Implanted Microchips , Vaccines , Ron Paul for Predident, and much more

The Return of The Harry Thomas Show

The "garage talk show" that is reaching out to Worldwide Usenet

after hiatus he is back to inform the people of deception and corruption.

Hosted by Harry Thomas;

The Harry Thomas Show - week in review is a 4 segment show. We have had

tremendous response and we want to thank our Listeners.

Keep them e-mails coming and thanks for your support !

harrythomas@netzero.net

The Show is recorded on Wednesdays
Posted to usenet on Wednesday Nights   to;
alt.binaries.great , - alt.binaries.radio.misc , -
alt.binaries.multimedia.documentary -alt.binaries.sounds.radio.misc, -
alt.binaries.sounds.radio, - alt.binaries.sounds.wma, - and
alt.binaries.multimedia
The NFO (information) file posted both days to ;

alt.pirate.radio, - alt.internet.talk.radio, - alt.talk.radio, -
rec.radio.amateur.homebrew, - rec.radio.misc, -
alt.radio.international, - rec.radio.amateur, - alt.radio.talk, -
alt.radio.internet, - and alt.internet.talk-radio

Reposted to usenet on Saturdays to;
alt.binaries.sounds.radio.repost and alt.binaries.multimedia.repost
These are binary newsgroups.

check website for more information
http://harrythomas.mysite.com/

Copies of this show can be e-mailed upon request inquire at;
harrythomas@netzero.net

--
Posted via a free Usenet account from http://www.teranews.com

From -2239772659321353591
X-Google-Thread: fc2a5,3a5bd22d7f910fd1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!not-for-mail
From: Dr. Anton T. Squeegee <SpammersBlow@dev.null>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: The Harry Thomas Show - week in review 03/21/07
Date: Wed, 21 Mar 2007 22:35:30 -0700
Message-ID: <MPG.206bb57d3014fe11989752@192.168.42.197>
References: <Xns98FB65AA39C7harrythomasnospamnet@66.150.105.47>
Organization: Blue Feather Technologies
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-15"
Content-Transfer-Encoding: 7bit
X-Newsreader: MicroPlanet Gravity v2.60
Cache-Post-Path: gutenberg.bluefeathertech.com!unknown@seleth.bluefeathertech.com

X-Cache: nntpcache 3.0.2 (see http://www.nntpcache.com/)
Cache-Post-Path: bubbleator.drizzle.com!unknown@gutenberg.bluefeathertech.com
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
Lines: 20
X-Complaints-To: abuse@csolutions.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:12732

In article <Xns98FB65AA39C7harrythomasnospamnet@66.150.105.47>,
harrythomas@nospam.netzero.net (known to some as Harry Thomas)
scribed...

> The Harry Thomas Show - week in review 03/21/07
> http://harrythomas.mysite.com/
> Listen to the show right from the website.

<drivelectomy>

And this is related to the Amateur Radio Service, how? Exactly?

PLONK!

--
Dr. Anton T. Squeegee, Director, Dutch Surrealist Plumbing Institute
(Known to some as Bruce Lane, KC7GR)
http://www.bluefeathertech.com -- kyrrin a/t bluefeathertech d-o=t calm
"Salvadore Dali's computer has surreal ports..."

From -4253663701210516241
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <12vl7d0bq4bsu95@corp.supernews.com>
Subject: Re: ? on neon light as static discharge device
Date: Thu, 22 Mar 2007 14:10:23 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Lines: 28
Message-ID: <4602c68e$0$16724$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12733

"Dave" <db5151@hotmail.com> wrote in message
news:12vl7d0bq4bsu95@corp.supernews.com...
>I saw somewhere that you could use an NE-2 bulb between the antenna "hot"
>lead and ground as a static discharge device for a receiver, but can't find
>an NE-2 and don't know anything about neon bulbs. Anybody know if a
>standard neon bulb rated at 125 VAC could be used in this manner? Or how I
>could test it? I'm thinking about charging up a 50V electrolytic capacitor
>and hitting the bulb with that, to see if it discharges the cap. I have a
>.22uF 630V mylar cap between the antenna and the input to the tuner because
>the 35V disc I had there got blown, so I know that static can be a problem
>with my setup even though it is grounded at two points.
> Would welcome any ideas anyone has on how to make this work...
>
> Thanks,
>
> Dave
>
>

A resistor will do as good, a high value of resistance relative to he impedance of the receiver. I use 100K. The neon bulb can be fun though. I used to have one attached to a long wire(200 Ft) or so and it was fun watching it flash during storms.

Jimmie

From 2705142806242782721
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed1.ip.tiscali.net!
tiscali!newsfeed2.ip.tiscali.net!news.astraweb.com!newsrouter-eu.astraweb.com!
tudelft.nl!txtfeed2.tudelft.nl!amsnews11.chello.com!amsnews14.chello.com!
news.chello.nl.POSTED!not-for-mail
From: Joop <jojo@chello.nl>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Thu, 22 Mar 2007 22:54:15 +0100
Message-ID: <upt503pcj0q1d0dcv2e17bv89d7e4n8n8a@4ax.com>
References: <12vdm9fk86gbr98@news.supernews.com>
<1173875872.602199.152140@d57g2000hsg.googlegroups.com>
<BnWjBrEWBI+FFw8P@g3ohx.demon.co.uk> <12vh20ce6q8sr48@news.supernews.com>
<7RwNs6AN$P+FFwJO@g3ohx.demon.co.uk> <lDuKh.7998$vV3.3900@trndny09>
<1174050747.602251.158400@l75g2000hse.googlegroups.com>
<lk1mv25kk4qi9pd81uktl5pgj3g6aggftf@4ax.com> <WbFKh.4697$_v3.3986@newsfe1-
gui.ntli.net> <8rbmv2p40cbj3ilf7u9lijqass6svojntt@4ax.com>

<ahkFgvOZ78$FFw28@g3ohx.demon.co.uk>
X-Newsreader: Forte Agent 2.0/32.652
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@chello.nl
Organization: chello.nl
Lines: 36
NNTP-Posting-Host: 62.163.7.62 (62.163.7.62)
NNTP-Posting-Date: Thu, 22 Mar 2007 22:55:41 +0100
X-Trace: 669424602fb5d9b06a29b31191
Xref: g2news1.google.com rec.radio.amateur.homebrew:12734
sci.electronics.basics:48685 sci.electronics.design:209627

On Tue, 20 Mar 2007 12:08:57 +0000, Ian Jackson
<IanJacksonRemoveThisBit@g3ohx.demon.co.uk> wrote:
>
>You should be able to use the circuit of the single crystal filter
>(in-to-out, without the resistive padding etc) as the resonant part in a
>VXO, and adjust the neutralization to pull the frequency of oscillation.
>It's worth a try.
>
>Ian.
The images primarily showed how the stopband notch moved around.
So I decided to put it into spice.

Compared to L compensation it does seem to have a benefit as higher
frequency peak. It also is not troubled by the side-effect of
L-compensation as passing lower and higher frequencies than those
around the crystal frequency.

Trying to make the most of the balancing compensation I placed a small
capacitor in series with the crystal. This moves the pass band
frequency up a bit more. But the smaller the series cap, the less
pronounced the peak seems to be. Also the circuits starts to attenuate
more and more. This might cause difficulty in an oscillator setup
where the loop gain should stay more than one.

Also with the balanced compensation circuit, the phase is changed
around the peak frequency. Without series cap around -45 degrees,
climbing to -83 with 12pF. This should be accounted for in the
feedback loop of an oscillator. (A properly dimensioned L-compensated
crystal does not change phase.)

But all in all it might be a (complex) method of shifting the working
frequency up.

Joop

From 2941518779752840227

X-Google-Thread: fc2a5,fdec7c3b65421cff,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l75g2000hse.googlegroups.com!not-for-mail
From: "Kevin J." <comments@backroomclassix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Turn portable radio into transmitter- can it be done?
Date: 23 Mar 2007 02:40:45 -0700
Organization: http://groups.google.com
Lines: 13
Message-ID: <1174642845.898582.205560@l75g2000hse.googlegroups.com>
NNTP-Posting-Host: 129.44.84.162
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174642847 1407 127.0.0.1 (23 Mar 2007 09:40:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 23 Mar 2007 09:40:47 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; IEMB3; .NET CLR 2.0.50727; IEMB3; yplus 5.6.04b),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l75g2000hse.googlegroups.com; posting-host=129.44.84.162;
   posting-account=c1wAxA0AAADh5kOC-AA2XCPtEpB2BYtn
Xref: g2news1.google.com rec.radio.amateur.homebrew:12735

I have more portable radios than I know what to do with and was wondering if I could somehow convert one of them for use as an extremely low-powered AM transmitter for use around my apartment. I need only a range of 10 feet or so and I really don't want to buy any sort of kit as Part-15 regulations in the US prohibit their use but do allow homebuilt units. I had one of those toys called a Wild Planet Radio DJ that was FCC type-approved but it got misplaced in my last move and now my old-time radio shows are just sitting there waiting to return to life on my antique radios.

Or, should doing that prove impractical, how hard is it to learn how to solder? :-)

From -5860384376414446553
X-Google-Thread: fc2a5,fdec7c3b65421cff
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o5g2000hsb.googlegroups.com!not-for-mail
From: "Arv" <arvid.evans@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Turn portable radio into transmitter- can it be done?
Date: 23 Mar 2007 07:57:58 -0700
Organization: http://groups.google.com
Lines: 47

```
Message-ID: <1174661878.441792.321970@o5g2000hsb.googlegroups.com>
References: <1174642845.898582.205560@l75g2000hse.googlegroups.com>
NNTP-Posting-Host: 71.32.182.171
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174661880 31443 127.0.0.1 (23 Mar 2007 14:58:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 23 Mar 2007 14:58:00 +0000 (UTC)
In-Reply-To: <1174642845.898582.205560@l75g2000hse.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.2) Gecko/
20060601 Firefox/2.0.0.2 (Ubuntu-edgy),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o5g2000hsb.googlegroups.com; posting-host=71.32.182.171;
   posting-account=j8G-ZQ0AAAArGSmSv5U2nhz6Vo5TeLQN
Xref: g2news1.google.com rec.radio.amateur.homebrew:12736
```

On 23 Mar, 03:40, "Kevin J." <comme...@backroomclassix.com> wrote:

> I have more portable radios than I know what to do with and was wondering if I could somehow convert one of them for use as an extremely low-powered AM transmitter for use around my apartment. I need only a range of 10 feet or so and I really don't want to buy any sort of kit as Part-15 regulations in the US prohibit their use but do allow homebuilt units. I had one of those toys called a Wild Planet Radio DJ that was FCC type-approved but it got misplaced in my last move and now my old-time radio shows are just sitting there waiting to return to life on my antique radios.
>
> Or, should doing that prove impractical, how hard is it to learn how to solder? :-)

Oh Wow! You opened up a whole can of worms with this post.

1) What part of Part-15 does not allow kits? I think it only requires low power levels (depends on frequency) and compliance with antenna size restriction (also depends on frequency). You can purchase Part-15 compliant transmitters, Part-15 compliant (supposedly) kits, or could build your own Part-15 compliant transmitter. There is, as far as I know, no formal "Type Approval" process for Part-15 transmitters. If you purchase a pre-built Part-15 compliant transmitter, be sure it contains a label by the manufacturer stating that it complies with Part-15 regulations. If you build a kit, or build something up from a magazine article or your own design, you will be responsible for insuring that it is Part-15 compliant.

2) It would be possible to modulate the internal local oscillator on one receiver and use it as a transmitter to other radios, but that is somewhat complex and does require soldering, component removal, component addition, etc. Again, you would be responsible for insuring that the resulting transmitter device was Part-15 compliant.

3) For local in-house use you only need a few milliwatts of RF power. There are kits available for that, or you could build up your

own crystal oscillator and modulator circuit. Just be sure to keep the power and antenna size within FCC Part-15 requirements for the frequency you are using.

4) Ham Radio is not the answer for what you want to do, because ham regulations in the US do not allow "broacasting" (i.e one-way-only transmission) and also do not allow music transmission.

Arv
_._

From -18200823431628580
X-Google-Thread: fc2a5,fdec7c3b65421cff
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!nx01.iad01.newshosting.com!newshosting.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news01.roc.ny.POSTED!53ab2750!not-for-mail
From: Bill Janssen <billj@ieee.org>
Reply-To: billjNOT_THIS@ieee.org
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Turn portable radio into transmitter- can it be done?
References: <1174642845.898582.205560@l75g2000hse.googlegroups.com>
In-Reply-To: <1174642845.898582.205560@l75g2000hse.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 26
Message-ID: <IYRMh.5334$B25.4981@news01.roc.ny>
X-Complaints-To: abuse-news@frontiernet.net
X-Trace:
52616e646f6d4956aa8b238aa2f708cb997bb5f5427f166485b28d76e552b1ed33d778760493626f0ed0c39affb892bae7742c1e3c8d83a409887986a8e14c82aa11ef915a5bbcf91dd5f4a0cb89bc1a96162b0e038e6480a553202afdc69dc21fd5bd779b6d4c22d1f1c25768302d30
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your complaint properly.
NNTP-Posting-Date: Fri, 23 Mar 2007 15:00:56 UTC
Date: Fri, 23 Mar 2007 15:00:56 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:12737

Kevin J. wrote:
> I have more portable radios than I know what to do with and was
> wondering if I could somehow convert one of them for use as an
> extremely low-powered AM transmitter for use around my apartment. I
> need only a range of 10 feet or so and I really don't want to buy any
> sort of kit as Part-15 regulations in the US prohibit their use but do
> allow homebuilt units. I had one of those toys called a Wild Planet
> Radio DJ that was FCC type-approved but it got misplaced in my last
> move and now my old-time radio shows are just sitting there waiting to

> return to life on my antique radios.
>
> Or, should doing that prove impractical, how hard is it to learn how
> to solder? :-)
>
>

I did that as a kid with tube type radio. I moved the connections to the antenna coil to replace the first IF coil. I connected the audio to the grid in place of the antenna coil. You have to re tune the oscillator and antenna coils to be on the same frequency.

On tube type radios this was easy but on newer radios with a circuit board, I don't know.

Bill K7NOM

```
From 8710272623923762132
X-Google-Thread: fc2a5,fdec7c3b65421cff
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.germany.com!feeder.news-
service.com!feed.xsnews.nl!border-1.ams.xsnews.nl!68.142.88.75.MISMATCH!
hwmnpeer01.ams!news-out.ntli.net!newsrout1-gui.ntli.net!ntli.net!news.highwinds-
media.com!newspeer1-win.ntli.net!newsfe6-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Russell King" <rusking@tesco.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1174642845.898582.205560@l75g2000hse.googlegroups.com>
Subject: Re: Turn portable radio into transmitter- can it be done?
Lines: 40
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <fsXMh.17762$267.16490@newsfe6-gui.ntli.net>
Date: Fri, 23 Mar 2007 21:15:55 GMT
NNTP-Posting-Host: 80.0.99.232
X-Complaints-To: http://www.ntlworld.com/netreport
X-Trace: newsfe6-gui.ntli.net 1174684555 80.0.99.232 (Fri, 23 Mar 2007 21:15:55
GMT)
NNTP-Posting-Date: Fri, 23 Mar 2007 21:15:55 GMT
Organization: ntl Cablemodem News Service
Xref: g2news1.google.com rec.radio.amateur.homebrew:12738
```

That reminds me of the Halicrafters S22-R I had upstairs in my bedroom when a boy.
By clipping a wire on to the IF (1.6 MHz), I was able to listen downstairs on a MW receiver.

Once I was staying at a holiday camp and was being kept awake by a loud

radio in the adjoining chalet.
I touched the TV aerial lead on the local oscillator of my Murphy portable
and wiped out their signal.
After a while they gave up and switched it off.

I was so pleased with myself I couldn't get off to sleep !

Taking a valve receiver as an example, I suppose the loudspeaker could be
used as a microphone
and the local oscillator amplitude modulated.
Some soldering might be required !

Russ

"Kevin J." <comments@backroomclassix.com> wrote in message
news:1174642845.898582.205560@l75g2000hse.googlegroups.com...
>I have more portable radios than I know what to do with and was
> wondering if I could somehow convert one of them for use as an
> extremely low-powered AM transmitter for use around my apartment. I
> need only a range of 10 feet or so and I really don't want to buy any
> sort of kit as Part-15 regulations in the US prohibit their use but do
> allow homebuilt units. I had one of those toys called a Wild Planet
> Radio DJ that was FCC type-approved but it got misplaced in my last
> move and now my old-time radio shows are just sitting there waiting to
> return to life on my antique radios.
>
> Or, should doing that prove impractical, how hard is it to learn how
> to solder? :-)
>

```
From -7167556238829982465
X-Google-Thread: fc2a5,fdec7c3b65421cff
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p15g2000hsd.googlegroups.com!not-for-
mail
From: "vsurducan@gmail.com" <vsurducan@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Turn portable radio into transmitter- can it be done?
Date: 24 Mar 2007 02:11:49 -0700
Organization: http://groups.google.com
Lines: 18
Message-ID: <1174727509.328368.122920@p15g2000hsd.googlegroups.com>
References: <1174642845.898582.205560@l75g2000hse.googlegroups.com>
NNTP-Posting-Host: 83.103.129.180
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
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X-Trace: posting.google.com 1174727510 30538 127.0.0.1 (24 Mar 2007 09:11:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 24 Mar 2007 09:11:50 +0000 (UTC)
In-Reply-To: <1174642845.898582.205560@l75g2000hse.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; TISA; .NET
CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p15g2000hsd.googlegroups.com; posting-host=83.103.129.180;
   posting-account=SuWl0A0AAAASkOgBLr6LxytIPhJjaD4O
Xref: g2news1.google.com rec.radio.amateur.homebrew:12739

On Mar 23, 11:40 am, "Kevin J." <comme...@backroomclassix.com> wrote:
> I have more portable radios than I know what to do with and was
> wondering if I could somehow convert one of them for use as an
> extremely low-powered AM transmitter for use around my apartment. I
> need only a range of 10 feet or so and I really don't want to buy any
> sort of kit as Part-15 regulations in the US prohibit their use but do
> allow homebuilt units. I had one of those toys called a Wild Planet
> Radio DJ that was FCC type-approved but it got misplaced in my last
> move and now my old-time radio shows are just sitting there waiting to
> return to life on my antique radios.
>
> Or, should doing that prove impractical, how hard is it to learn how
> to solder? :-)

Will not be muuuuch easy for homebrewing a simple FM transmitter
instead ?
http://tacashi.tripod.com/elctrncs/smplfmtr/smplfmtr.htm



From 8039555570726883702
X-Google-Thread: f64c6,37763690cca2000a,start
X-Google-Thread: 107ada,37763690cca2000a,start
X-Google-Thread: fc2a5,37763690cca2000a,start
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!news.germany.com!newsfeed.datemas.de!news.datemas.de!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: For the newbie, a FAQ, "What is _REAL_  Ham Radio?"
Date: Sat, 24 Mar 2007 14:30:20 -0000
Organization: Datemas.de http://www.datemas.de
Lines: 128
Message-ID: <eu3clr$v5k$1@news.datemas.de>
X-Trace: news.datemas.de SEvQQCk5Cq8Q/Xod/w0AsfDRqWZaCSTqva+djXwdcscvlsH4lXSrkL/
0qNQODs5Munw6db2ondkj8iqX9LucEjHla2KyrsNU8hXGTohaHZSJCPfw3EePJnAA5KyRB3OHnJxYTqSbw
BM2kbm9S3i6bfWkQTNnOm0hBC51XnH27bBgehu2y7OSAg==
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Sat, 24 Mar 2007 14:30:19 +0000 (UTC)
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Priority: 3
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:105993 rec.radio.amateur.misc:34551 rec.radio.amateur.homebrew:12740

A necessary preface.....

(It is becoming increasingly difficult to fly the flag for decency and for civilised behaviour in Radio Hammery. However, there still exists the fundamental basis on which Ham Radio is based, and that will never die.

This FAQ ("What Is _REAL_ Ham Radio?") will be regularly published and will not be shouted or bullied down. It is important that those of a technical bent, who are the natural seed-corn of Radio Hammery and who gravitate towards us to be the real novitiate, can still find us, (and know that we are still here), their fellows.)

-----ooooo-----

So,.....What is _REAL_ Ham Radio?

REAL Ham Radio is a technical pursuit for those who are interested in the science of radio wave propagation and who are also interested in the way that their radios function. It has a long-standing tradition of providing a source of engineers who are born naturals.

Ham Radio awakens in its aficionados a whole-life fascination with all things technical and gives an all-abiding curiosity to improve one's scientific knowledge. It's a great swimming pool, please dive in!

This excitement causes a wish to share the experience with ones fellow man, and shows itself in the gentlemanly traditions of Ham Radio.

Radio Hams are in a unique privileged position in that they can construct and operate their own equipment! No-one else has this privilege. Users, such as broadcasters, the po lice and armed farces, CBers and mobile phone users have to purchase ready-made gear. Manufacturers are not licensed to operate their gear. Radio Hams are qualified to design, build and then operate their own pieces of equipment. They do this with gusto, and also repair and modify their own equipment. This is a privilege well worth the effort to gain, and one to be jealously guarded.

The excitement that drives a Radio Ham starts with relatively simple technologies at first, perhaps making his own Wimshurst machine and primary cells. Small pieces of test equipment follow, possibly multimeters and signal generators. Then comes receivers and transmitters. It is with the latter that communication with like-minded technically motivated people takes off. The scope for technical development grows with the years and now encompasses DSP and DDS. There is also a great deal of excitement in the areas of computer programming to be learnt and applied.

The technical excitement motivates Radio Hams to compete with each other to determine who has designed and manufactured the best-quality station. This competitiveness is found in DXing, competitions and fox-hunts.

-----OOOOO----

However, beware! A Ham Radio licence is such a desirable thing to have that there are large numbers of people who wish to be thought of as Radio Hams when, in fact, they are nothing of the kind! Usually such people are a variation of the CB Radio hobbyist; they buy their radios off the shelf and send them back to be repaired; they are not interested in technical discussion and sneer at those who are; they have no idea how their radios work inside and have no wish to find out; they are free with rather silly personal insults.

-----ooooo-----

One infallible way to disambiguate the CB Radio Hobbyist from the _REAL_ Radio Ham is to solicit their view of the difference between CB Radio and Ham Radio. A Radio Ham will perceive Ham Radio to be a technical pursuit and will perceive CB Radio to be a social communications facility no different in essence to a land-line telephone or a GSM mobile in the hands of a 6-year-old. Thus a Radio Ham could also hold a CB licence safe in the knowledge that such a licence says no more about him than having a land-line telephone, whilst continuing to regard Ham Radio as a separate technical pursuit.

A CB Radio hobbyist, on the other hand, sees no difference between a Ham Radio licence and a CB Radio licence. To him, they are sisters-under-the-skin. Wrongly, the CB Radio Hobbyist then tries to classify himself as the equal of the Radio Ham when, in fact, he is nothing of the kind.

Ham Radio is not CB Radio and has no common ground with it! Ham Radio is _THE_ technical pursuit for gentlemen; CB Radio is the name for the operating hobby for those who buy their rigs and equipment off the shelf.

-----ooooo-----

If you are the sort of person who is motivated by a technical interest in how things work; if you took apart malfunctioning clocks, toasters and the like and put them right despite never having seen them working, then a Ham Radio licence is your traditional route! There has never been a shortage of such people, and those who gravitate towards such an interest have always been welcomed into our shacks and their interests fostered. There is not today, nor has there ever been, a need to go out and encourage and press children, children who have never expressed an interest in Ham Radio, to come into our shacks. Such an activity should cause eyebrows to be raised - what normal well-adjusted adults seek the social acquaintance of children?!

-----ooooo-----

Please remember that this FAQ is a _POSITIVE EXHORTATION_ to you to exert yourselves to join our fraternity!

From 3073679944783774409
X-Google-Thread: fc2a5,fdec7c3b65421cff
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews5.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Turn portable radio into transmitter- can it be done?
References: <1174642845.898582.205560@l75g2000hse.googlegroups.com>
In-Reply-To: <1174642845.898582.205560@l75g2000hse.googlegroups.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 32
Message-ID: <kEaNh.1136$ER1.65@bignews5.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net

X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcbojndeajgfckadbbolglnpgflcagemgjaopl
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NNTP-Posting-Date: Sat, 24 Mar 2007 10:32:48 EDT
Organization: BellSouth Internet Group
Date: Sat, 24 Mar 2007 10:32:59 -0400
Xref: g2news1.google.com rec.radio.amateur.homebrew:12741

Kevin J. wrote:
> I have more portable radios than I know what to do with and was
> wondering if I could somehow convert one of them for use as an
> extremely low-powered AM transmitter for use around my apartment. I
> need only a range of 10 feet or so and I really don't want to buy any
> sort of kit as Part-15 regulations in the US prohibit their use but do
> allow homebuilt units. I had one of those toys called a Wild Planet
> Radio DJ that was FCC type-approved but it got misplaced in my last
> move and now my old-time radio shows are just sitting there waiting to
> return to life on my antique radios.
>
> Or, should doing that prove impractical, how hard is it to learn how
> to solder? :-)
>

As a kid I fooled around with radio circuits. I built a solder less
breadboard for building and tearing down circuits that had 4 octal
sockets and tons of farinstock clips for interconnecting parts. I had
quit a few old tubes in the junk box when an old time radio repair man
gave me what was left of the contents of his tube caddies.

So I wound an oscillator coil around a cardboard tube from toilet paper
and built a Hartly oscillator with a 6F6G running with 300 volts on the
plate. It was modulated by another 6F6G choke coupled to the
oscillator. So I was running near 1-2 WATTS input. I connected several
feet of wire as an antenna to the cathode of the oscillator tube and
tuned it to the middle of the broadcast band at an empty spot on the
dial. A crystal phono pickup directly drove the modulator tube.

I would put on an LP record and take a transistor radio outside to see
how for out it got. It covered the whole block! Probably illegal
power, but I never used it long enough for anybody to notice. Without
the antenna, I could still hear it anywhere in the apartment house.

From -8190890348022178027
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe16.lga.POSTED!53ab2750!not-for-mail

Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <eu3clr$v5k$1@news.datemas.de>
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Lines: 5
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <EMaNh.178800$Ju2.172020@newsfe16.lga>
Date: Sat, 24 Mar 2007 10:41:29 -0400
NNTP-Posting-Host: 68.0.230.122
X-Complaints-To: admin@cox.net
X-Trace: newsfe16.lga 1174747300 68.0.230.122 (Sat, 24 Mar 2007 07:41:40 MST)
NNTP-Posting-Date: Sat, 24 Mar 2007 07:41:40 MST
Organization: Cox
Xref: g2news1.google.com uk.radio.amateur:105998 rec.radio.amateur.misc:34552
rec.radio.amateur.homebrew:12742

Unfortunately, NO ONE builds Wimhurst Machines as a prelude
to becoming a ham these days. Maybe 80 years ago, but times
change. So does technology. Times change, hobbies change.

From 5661923539785369979
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!
news.albasani.net!newsfeed.datemas.de!news.datemas.de!not-for-mail
From: "G.A.Evans G4SDW" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Sat, 24 Mar 2007 14:46:24 -0000
Organization: Datemas.de http://www.datemas.de
Lines: 14
Message-ID: <eu3djv$11v$1@news.datemas.de>
References: <eu3clr$v5k$1@news.datemas.de> <EMaNh.178800$Ju2.172020@newsfe16.lga>
X-Trace: news.datemas.de
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IGicezc=
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Sat, 24 Mar 2007 14:46:23 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response

X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news1.google.com uk.radio.amateur:105999 rec.radio.amateur.misc:34553
rec.radio.amateur.homebrew:12743

It is CB that is the "hobby". Ham radio is a technical pursuit,
a whole-life pre-occupation.

Technology changes, but it is still the essence of Radio Hams to
remain interested in and be motivated by technology.

"Uncle Peter" <radioconnection@cox.net> wrote in message
news:EMaNh.178800$Ju2.172020@newsfe16.lga...
> Unfortunately, NO ONE builds Wimhurst Machines as a prelude
> to becoming a ham these days. Maybe 80 years ago, but times
> change. So does technology. Times change, hobbies change.
>

From -609842385645750024
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!
newsfeed.kamp.net!newsfeed.kamp.net!213.239.142.2.MISMATCH!feed.xsnews.nl!
border-1.ams.xsnews.nl!68.142.88.75.MISMATCH!hwmnpeer01.ams!news-out.ntli.net!
newsrout1-gui.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe7-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Brian Reay" <see@website.invalid>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <eu3clr$v5k$1@news.datemas.de> <EMaNh.178800$Ju2.172020@newsfe16.lga>
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <Y2bNh.26131$Lz4.5627@newsfe7-gui.ntli.net>
Date: Sat, 24 Mar 2007 15:01:12 GMT
NNTP-Posting-Host: 82.9.22.69
X-Complaints-To: http://www.ntlworld.com/netreport
X-Trace: newsfe7-gui.ntli.net 1174748472 82.9.22.69 (Sat, 24 Mar 2007 15:01:12
GMT)
NNTP-Posting-Date: Sat, 24 Mar 2007 15:01:12 GMT
Organization: ntl Virgin ADSL News Service
Xref: g2news1.google.com uk.radio.amateur:106000 rec.radio.amateur.misc:34554

rec.radio.amateur.homebrew:12744

"Uncle Peter" <radioconnection@cox.net> wrote in message
news:EMaNh.178800$Ju2.172020@newsfe16.lga...
> Unfortunately, NO ONE builds Wimhurst Machines as a prelude
> to becoming a ham these days. Maybe 80 years ago, but times
> change. So does technology. Times change, hobbies change.

Well, maybe not a "prelude" but one of our local M3s (now an M0 one, of the
many that have moved through the system) built a Wimshurst Machine and some
other such beasts.

--
73
Brian, G8OSN
www.g8osn.org.uk

From 3441487793759002587
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: Mark@kb9rqz.org
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Sat, 24 Mar 2007 11:31:39 -0400
Message-ID: <62ha03l6f2dmqusl2646rebgu9b6bf2eke@4ax.com>
References: <eu3clr$v5k$1@news.datemas.de>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 11
NNTP-Posting-Date: 24 Mar 2007 14:38:26 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com uk.radio.amateur:106002 rec.radio.amateur.misc:34557
rec.radio.amateur.homebrew:12745

On Sat, 24 Mar 2007 14:30:20 -0000, "G.A.Evans G4SDW" <me@privacy.net>
wrote:

>A necessary preface.....
>
>(It is becoming increasingly difficult to fly the flag for
>decency and for civilised behaviour in Radio Hammery.

>However, there still exists the fundamental basis on
>which Ham Radio is based, and that will never die.
esp for a trol that has never flown such a flag
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -4893281728570668374
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!aotearoa.belnet.be!news.belnet.be!newsgate.cistron.nl!xs4all!
news2.euro.net!postnews2.euro.net!news.wanadoo.nl!not-for-mail
Date: Sat, 24 Mar 2007 18:26:04 +0100
From: know code <know_code@wanadoo.nl>
Reply-To: "know code"@invalid_address.com
User-Agent: Thunderbird 1.5.0.10 (X11/20070221)
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
References: <eu3clr$v5k$1@news.datemas.de> <EMaNh.178800$Ju2.172020@newsfe16.lga>
<Y2bNh.26131$Lz4.5627@newsfe7-gui.ntli.net>
In-Reply-To: <Y2bNh.26131$Lz4.5627@newsfe7-gui.ntli.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: quoted-printable
Lines: 19
Message-ID: <46055f2c$0$274$dbd49001@news.wanadoo.nl>
Organization: Wanadoo
NNTP-Posting-Date: 24 Mar 2007 17:26:04 GMT
NNTP-Posting-Host: s5591cd23.adsl.wanadoo.nl
X-Trace: 1174757164 dr7.euro.net 274 85.145.205.35:2505
X-Complaints-To: abuse@wanadoo.nl
Xref: g2news1.google.com uk.radio.amateur:106013 rec.radio.amateur.misc:34569
rec.radio.amateur.homebrew:12746

Brian Reay wrote:

> one of our local M3s (now an M0 one, of the=20
> many that have moved through the system)

Still waiting on the RSGB publishing those figures to prove that....=20
Anything else is just pure speculation and conjecture.

--=20
ARRL membership =3D $39 (~=A320)

RSGB membership =3D =A344

Don't let them rip you off any more.
Do the right thing, resign from the RSGB today.

The RSGB said Radio Amateurs were a threat to national security!
Is this the type of organisation you want to represent you?

```
From 1430615503846l2324
X-Google-Thread: fc2a5,fdec7c3b65421cff
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!y80g2000hsf.googlegroups.com!not-for-
mail
From: "AF6AY" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Turn portable radio into transmitter- can it be done?
Date: 24 Mar 2007 11:46:08 -0700
Organization: http://groups.google.com
Lines: 68
Message-ID: <1174761968.869297.22300@y80g2000hsf.googlegroups.com>
References: <1174642845.898582.205560@l75g2000hse.googlegroups.com>
   <kEaNh.1136$ER1.65@bignews5.bellsouth.net>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1174761970 19546 127.0.0.1 (24 Mar 2007 18:46:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 24 Mar 2007 18:46:10 +0000 (UTC)
In-Reply-To: <kEaNh.1136$ER1.65@bignews5.bellsouth.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-te09.proxy.aol.com[CFC8722D] (Prism/1.1.9), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: y80g2000hsf.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com rec.radio.amateur.homebrew:12747
```

On Mar 24, 6:32=EF=BF=BDam, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wro=
te:
> Kevin J. wrote:
> > I have more portable radios than I know what to do with and was
> > wondering if I could somehow convert one of them for use as an
> > extremely low-powered AM transmitter for use around my apartment. I
> > need only a range of 10 feet or so and I really don't want to buy any
> > sort of kit as Part-15 regulations in the US prohibit their use but do
> > allow homebuilt units. I had one of those toys called a Wild Planet
> > Radio DJ that was FCC type-approved but it got misplaced in my last

> > move and now my old-time radio shows are just sitting there waiting to
> > return to life on my antique radios.
>
> > Or, should doing that prove impractical, how hard is it to learn how
> > to solder? :-)
>
> As a kid I fooled around with radio circuits. =A0I built a solder less
> breadboard for building and tearing down circuits that had 4 octal
> sockets and tons of farinstock clips for interconnecting parts. =A0I had
> quit a few old tubes in the junk box when an old time radio repair man
> gave me what was left of the contents of his tube caddies.
>
> So I wound an oscillator coil around a cardboard tube from toilet paper
> and built a Hartly oscillator with a 6F6G running with 300 volts on the
> plate. =A0It was modulated by another 6F6G choke coupled to the
> oscillator. =A0So I was running near 1-2 WATTS input. =A0I connected seve=
ral
> feet of wire as an antenna to the cathode of the oscillator tube and
> tuned it to the middle of the broadcast band at an empty spot on the
> dial. =A0A crystal phono pickup directly drove the modulator tube.
>
> I would put on an LP record and take a transistor radio outside to see
> how for out it got. =A0It covered the whole block! =A0Probably illegal
> power, but I never used it long enough for anybody to notice. =A0Without
> the antenna, I could still hear it anywhere in the apartment house.

Few in here were around when the "phono oscillator" was a
consumer electronics product...in the 1940s. :-)

Back then there were few "radios" (AM broadcast receivers)
that had any audio input jack on the back and "records"
(78 RPM discs) were the new thing for the home.
Phonographs (self-contained units) sometimes had such
oscillators...usually one-tube AM oscillators that could be
set to an unoccupied spot on the AM BC band. No wires
to connect! :-)

These were neat little projects for the teener back then,
letting them play grown-up "broadcaster." I was one of
those for a few days back then...until my Dad, coming
home from work, saw my buddy carrying my portable
receiver and listening to my voice coming out of it...:-)

Not a technically-difficult task to build one, even very
low-power. Today's wireless FM microphone is more
complex, although not too much. With transistors or
ICs, an AM wireless mike can be made, with battery
supply, in most any large microphone enclosure. No
mike cable needed.

It's USE is a fad, little more. The FM mike in a Karaoke
setup is much more entertaining in a party environment.
These "AM broadcast" thingies are good as minor profit

devices for kit makers but very limited due to today's
[USA] Part 15 limitations.

73, Len AF6AY

From 7616510550833664983
X-Google-Thread: fc2a5,9a01cfc5ccb732a7,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: The Harry Thomas Show - week in review 03/21/07 back from hiatus
From: Harry Thomas <harrythomas@nospam.netzero.net>
Organization: pfabf
Message-ID: <Xns98FD964D9D988harrythomasnospamnet@66.150.105.47>
User-Agent: Xnews/5.04.25
Date: 24 Mar 2007 17:53:18 GMT
Lines: 51
NNTP-Posting-Date: 24 Mar 2007 17:53:18 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12748

The Harry Thomas Show - week in review 03/21/07 back from hiatus
http://harrythomas.mysite.com/
Listen to the show right from the website.

This weeks topics include - Charlie Sheen, Rosie O'donnell, Global Warming , Implanted Microchips , Vaccines , Ron Paul for Predident, and much more

The Return of The Harry Thomas Show

The "garage talk show" that is reaching out to Worldwide Usenet

after hiatus he is back to inform the people of deception and corruption.

Hosted by Harry Thomas;

The Harry Thomas Show - week in review is a 4 segment show. We have had

tremendous response and we want to thank our Listeners.

Keep them e-mails coming and thanks for your support !

harrythomas@netzero.net

The Show is recorded on Wednesdays
Posted to usenet on Wednesday Nights   to;
alt.binaries.great , - alt.binaries.radio.misc , -

alt.binaries.multimedia.documentary -alt.binaries.sounds.radio.misc, -
alt.binaries.sounds.radio, - alt.binaries.sounds.wma, - and
alt.binaries.multimedia
The NFO (information) file posted both days to ;

 alt.pirate.radio, - alt.internet.talk.radio, - alt.talk.radio, -
rec.radio.amateur.homebrew, - rec.radio.misc, -
alt.radio.international, - rec.radio.amateur, - alt.radio.talk, -
alt.radio.internet, - and alt.internet.talk-radio

Reposted to usenet on Saturdays to;
alt.binaries.sounds.radio.repost and alt.binaries.multimedia.repost
These are binary newsgroups.

check website for more information
http://harrythomas.mysite.com/

Copies of this show can be e-mailed upon request inquire at;
harrythomas@netzero.net

--
Posted via a free Usenet account from http://www.teranews.com

From 9021961222027697365
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n59g2000hsh.googlegroups.com!not-for-mail
From: "AF6AY" <LenAnderson@ieee.org>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: 24 Mar 2007 12:07:36 -0700
Organization: http://groups.google.com
Lines: 27
Message-ID: <1174763256.095989.244440@n59g2000hsh.googlegroups.com>
References: <eu3clr$v5k$1@news.datemas.de>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174763257 20269 127.0.0.1 (24 Mar 2007 19:07:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 24 Mar 2007 19:07:37 +0000 (UTC)
In-Reply-To: <eu3clr$v5k$1@news.datemas.de>
User-Agent: G2/1.0

X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-ntc-te09.proxy.aol.com[CFC8722D] (Prism/1.1.9), HTTP/1.1 cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: n59g2000hsh.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com uk.radio.amateur:106021 rec.radio.amateur.misc:34585 rec.radio.amateur.homebrew:12749

On Mar 24, 6:30?am, "G.A.Evans G4SDW" <m...@privacy.net> wrote:
> A necessary preface.....
>
> (It is becoming increasingly difficult to fly the flag for
> decency and for civilised behaviour in Radio Hammery.
> However, there still exists the fundamental basis on
> which Ham Radio is based, and that will never die.
>
> This FAQ ("What Is _REAL_ Ham Radio?") will
> be regularly published and will not be shouted or bullied
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> gravitate towards us to be the real novitiate, can
> still find us, (and know that we are still here), their fellows.)

Evans, knock it off with this crossposting of pretentious
blabbering. Try confining it to uk.radio.amateur or maybe
rec.radio.amateur.misc. It doesn't belong in HOMEBREW
since it is nothing but YOUR OPINION...an opinion which
"we" have all heard for years with little variance in oratory.

If you are "serious" about this "FAQ" then go to the new
rec.radio.amateur.moderated and post. If you dare. :-(

AF6AY

From -4169230515391356331
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 24 Mar 2007 14:12:37 -0500
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <eu3clr$v5k$1@news.datemas.de>

```
<1174763256.095989.244440@n59g2000hsh.googlegroups.com>
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Sat, 24 Mar 2007 15:12:08 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <SLednYsey8C45ZjbnZ2dnUVZ_vKunZ2d@comcast.com>
Lines: 37
NNTP-Posting-Host: 68.61.216.97
X-Trace: sv3-1ksLd4K4TSERNG3Es4oOXjEpoUNYXa/
HyMmbZvzTrrgHMUgLxgbxPDiJFaU5bcLZhqBK4OiPk8bRtZd!o+Mwkv1XaBv83yB2P/
MEQIi8VA42zkGID852rnmt1hzjSHYis16VSuRSVRm+mHJTt9N4eVyWTk74!gpBIcBRfNDg//
qEyresimcGWmhvR
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com uk.radio.amateur:106025 rec.radio.amateur.misc:34588
rec.radio.amateur.homebrew:12750


"AF6AY" <LenAnderson@ieee.org> wrote in message
news:1174763256.095989.244440@n59g2000hsh.googlegroups.com...
> On Mar 24, 6:30?am, "G.A.Evans G4SDW" <m...@privacy.net> wrote:
>> A necessary preface.....
>>
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>   "we" have all heard for years with little variance in oratory.
>
>   If you are "serious" about this "FAQ" then go to the new
>   rec.radio.amateur.moderated and post.  If you dare.  :-(
>
>   AF6AY
>
```

>

I doubt he could get it past the moderators. It is derogatory towards both hams and CB operators.

Dee, N8UZE

From 9161449801227797189
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.germany.com!news.belwue.de!
kanaga.switch.ch!switch.ch!newsfeed.esat.net!reader01.news.esat.net!not-for-mail
From: zpk_pkearn_class_a_licensee@aruba.eircom.india.net.com (zpk)
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Sat, 24 Mar 2007 21:25:46 GMT
Organization: Esat Net Customer
Lines: 16
Message-ID: <460595d5.529541@news.iol.ie>
References: <eu3clr$v5k$1@news.datemas.de> <EMaNh.178800$Ju2.172020@newsfe16.lga>
<Y2bNh.26131$Lz4.5627@newsfe7-gui.ntli.net>
<46055f2c$0$274$dbd49001@news.wanadoo.nl>
NNTP-Posting-Host: dialup0914.ts551.cwt.esat.net
X-Trace: reader01.news.esat.net 1174771506 32646 193.203.143.146 (24 Mar 2007
21:25:06 GMT)
X-Complaints-To: abuse@esat.net
NNTP-Posting-Date: Sat, 24 Mar 2007 21:25:06 +0000 (UTC)
X-Newsreader: Forte Free Agent 1.21/32.243
Xref: g2news1.google.com uk.radio.amateur:106045 rec.radio.amateur.misc:34598
rec.radio.amateur.homebrew:12752

know code <know_code@wanadoo.nl> wrote:

> Still waiting on the RSGB publishing those figures to prove that....=20
> Anything else is just pure speculation and conjecture.

tut tut tut..

dont you read the rsgb publications ?

"UK Foundation Ticket a Hit, RSGB President Says"
ref: http://www.arrl.org/news/stories/2002/06/13/2/

From -3719959030009107020
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 24 Mar 2007 17:04:46 -0500
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <eu3clr$v5k$1@news.datemas.de>
<1174763256.095989.244440@n59g2000hsh.googlegroups.com>
<SLednYsey8C45ZjbnZ2dnUVZ_vKunZ2d@comcast.com>
<q14b035pi3pnakv4ig65bq5i2k5ogsis8g@4ax.com>
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Sat, 24 Mar 2007 18:04:17 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <YrSdneL3Q8jjPZjbnZ2dnUVZ_qupnZ2d@comcast.com>
Lines: 24
NNTP-Posting-Host: 68.61.216.97
X-Trace: sv3-YZ7L1fg5m9lGpg/
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e+SPGo+Qo0ZORddK68ovgfbOfhozO7waG/rq9pKo6zEdeBBnRSkbRKRA/Xq+3ISy75Ykn80HEoGX!
UtcA3eknCE2QegLxNAkXfG4/vRCq
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com uk.radio.amateur:106051 rec.radio.amateur.misc:34603
rec.radio.amateur.homebrew:12754

"Cheemag" <cheemag@yahoo.co.uk> wrote in message
news:q14b035pi3pnakv4ig65bq5i2k5ogsis8g@4ax.com...
> On Sat, 24 Mar 2007 15:12:08 -0400, "Dee Flint" <deeflint01@comcast.net>
> wrote:
>
>>I doubt he could get it past the moderators. It is derogatory towards
>>both
>>hams and CB operators.
>
> And your description of CB-ers as "operators" is derogatory
> towards amateur radio operators.

>
> --
>
> 73, Jim, G4RGA

Only in your mind since you choose to view it that way. There are many fine
CB operators. However the service has been trashed by the noticeable few.
All must then suffer the insults engendered by the few.

Dee, N8UZE

From 1310862688233318555
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!p77g2000hsh.googlegroups.com!not-for-mail
From: "AF6AY" <LenAnderson@ieee.org>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: 24 Mar 2007 15:57:38 -0700
Organization: http://groups.google.com
Lines: 48
Message-ID: <1174777058.735164.157750@p77g2000hsh.googlegroups.com>
References: <eu3clr$v5k$1@news.datemas.de>
   <1174763256.095989.244440@n59g2000hsh.googlegroups.com>
   <SLednYsey8C45ZjbnZ2dnUVZ_vKunZ2d@comcast.com>
NNTP-Posting-Host: 207.200.116.72
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1174777060 21378 127.0.0.1 (24 Mar 2007 22:57:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 24 Mar 2007 22:57:40 +0000 (UTC)
In-Reply-To: <SLednYsey8C45ZjbnZ2dnUVZ_vKunZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-ntc-ta08.proxy.aol.com[CFC87028] (Prism/1.1.9), HTTP/1.1 cache-ntc-ab08.proxy.aol.com[CFC87448] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: p77g2000hsh.googlegroups.com; posting-host=207.200.116.72;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com uk.radio.amateur:106055 rec.radio.amateur.misc:34608
rec.radio.amateur.homebrew:12755

On Mar 24, 11:12=EF=BF=BDam, "Dee Flint" <deeflin...@comcast.net> wrote:

```
> "AF6AY" <LenAnder...@ieee.org> wrote in message
>
> news:1174763256.095989.244440@n59g2000hsh.googlegroups.com...
>
>
>
>
>
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> > =A0 rec.radio.amateur.moderated and post. =A0If you dare. =A0:-(
>
> > =A0 AF6AY
>
> I doubt he could get it past the moderators. =A0It is derogatory towards =
both
> hams and CB operators.

   I agree, Dee.

   ...but, it was worth a shot...  :-)

   Maybe we can see more of Evans on "The Laughing Policeman?"
   :-)

   73, Len  AF6AY  [also AF6AY@arrl.org]



From 2857495025125557462
X-Google-Thread: f64c6,37763690cca2000a
X-Google-Thread: 107ada,37763690cca2000a
X-Google-Thread: fc2a5,37763690cca2000a
```

X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!meganewsservers.com!
feeder2.on.meganewsservers.com!zen.net.uk!demorgan.zen.co.uk!
reader02.news.zen.co.uk.POSTED!not-for-mail
From: "DieSea" <DieSea.NoSpamPlease@nnttwlwoorrlldd.ccoomm>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <eu3clr$v5k$1@news.datemas.de> <EMaNh.178800$Ju2.172020@newsfe16.lga>
<Y2bNh.26131$Lz4.5627@newsfe7-gui.ntli.net>
<2n6b039hfa5ttkq8bi2kvovo0m5lsmdn0r@4ax.com>
Subject: Re: For the newbie, a FAQ, "What is _REAL_ Ham Radio?"
Date: Sat, 24 Mar 2007 23:08:43 -0000
Organization: No Spam Wanted Thanks
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Lines: 23
Message-ID: <4605af72$0$22528$fa0fcedb@news.zen.co.uk>
NNTP-Posting-Host: 82.70.32.52
X-Trace: 1174777714 reader02.news.zen.co.uk 22528 82.70.32.52:2533
X-Complaints-To: abuse@zen.co.uk
Xref: g2news1.google.com uk.radio.amateur:106060 rec.radio.amateur.misc:34609
rec.radio.amateur.homebrew:12756

"pointyhead" <ftscum@hotmail.com> wrote in message
news:2n6b039hfa5ttkq8bi2kvovo0m5lsmdn0r@4ax.com...
> On Sat, 24 Mar 2007 15:01:12 GMT, "Brian Reay" <see@website.invalid>
> wrote:

>
> The many? THE MANY?! Post the figures that disprove what we all know
> the real truth is or give it a rest Judas.

So says the **person** wearing the yellow shirt at Blackpool

All he needed was the banana tree , he would be AT THE TOP

EVEN_BURDZ_HAVE_BRAINZ

Might even be of the 57 variety

;-))

DieSea

From -7063346169554520448

X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.germany.com!feeder.news-service.com!news2.euro.net!amsnews11.chello.com!amsnews14.chello.com!news.chello.nl.POSTED!not-for-mail
From: Joop <jojo@chello.nl>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Sat, 17 Mar 2007 01:51:54 +0100
Message-ID: <8rbmv2p40cbj3ilf7u9lijqass6svojntt@4ax.com>
References: <12vdm9fk86gbr98@news.supernews.com>
<1173875872.602199.152140@d57g2000hsg.googlegroups.com>
<BnWjBrEWBI+FFw8P@g3ohx.demon.co.uk> <12vh20ce6q8sr48@news.supernews.com>
<7RwNs6AN$P+FFwJO@g3ohx.demon.co.uk> <lDuKh.7998$vV3.3900@trndny09>
<1174050747.602251.158400@l75g2000hse.googlegroups.com>
<lk1mv25kk4qi9pd81uktl5pgj3g6aggftf@4ax.com> <WbFKh.4697$_v3.3986@newsfe1-gui.ntli.net>
X-Newsreader: Forte Agent 2.0/32.652
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@chello.nl
Organization: chello.nl
Lines: 20
NNTP-Posting-Host: 62.163.7.62 (62.163.7.62)
NNTP-Posting-Date: Sat, 17 Mar 2007 01:53:17 +0100
X-Trace: 8c51b45fb3bfd9b06a29b00662
Xref: g2news1.google.com rec.radio.amateur.homebrew:12655 sci.electronics.basics:47916 sci.electronics.design:207240

On Fri, 16 Mar 2007 22:51:34 GMT, "colin"
<colin.rowe1@ntworld.NOSPAM.com> wrote:
>The reason for the parallel inductance in the overtone mode is the
>low impedance of the crystal self capacitance at high frequencies,
>this on its own can be quite low, and the series resistance
>at overtone can be quite high, so this can allow the tank circuit to
>dominate rather than the crystal unless it is cancelled.
>
I know why the inductor is usually necessary. The thing is that for the purpose of the Butler the effect of C0 can be neutralized.
The question is whether it can be made to have a similar effect in the "pulling arena" as well. Of course it should not have to much side effects in normal operation of the oscillator.

In the overtone butler there is also another LC resonance circuit present that determines the possible operating frequency (read desired overtone). Such a thing might be necessary in most circuits where an inductor is placed in parallel with a crystal.

Joop

From -4328404146539642612
X-Google-Thread: fc2a5,d095ee26342dab00
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
140.99.99.194.MISMATCH!news-in-02.newsfeed.easynews.com!easynews.com!easynews!sn-xt-sjc-02!sn-xt-sjc-06!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: Chris Jones <lugnut808@nospam.yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Microwave magnetron as a rectifier diode.
Date: Sat, 17 Mar 2007 01:24:37 +0000
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vmgq4dooq3b4b@corp.supernews.com>
References: <eE7Kh.5359$JZ3.3832@newssvr13.news.prodigy.net>
<5DiKh.7654$yW.5224@newssvr11.news.prodigy.net>
User-Agent: KNode/0.7.7
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Complaints-To: abuse@supernews.com
Lines: 45
Xref: g2news1.google.com rec.radio.amateur.homebrew:12656

N9WOS wrote:

> Woops ..... calculation errors.......
> Let me correct a few figures.
>
>> For a 4KV 500mA 2000Wsupply.
>> A full wave supply with a 4.5KV-0-4.5KV transformer driving two de-maged
>> magnetrons driving a filter choke.
>> It would drop about 500V in the magnetrons.
>> Power loss would be 40Wfiliment plus 250W plate loss, for a total loss of
>> 290W each.
>> Total losses would be 580W at full load. 80W at no load.
>> 77.5% efficient at full load.
>
> That should be
> Total losses would be 330W at full load. 80W at no load.
> 85.8% efficient at full load.
>
>> The largest supplies you could probably make is a 10KV 500mA 5,000W
>> supply with two tubes and an efficiency of 90%.
>
> 10KV 500mA 5,000W supply with two tubes and an efficiency of 93.8%.
>
>> Or a 20KV 500mA 10,000W full wave bridge supply, with four tubes, with
>> and efficiency of around 90%

>
> 20KV 500mA 10,000W full wave bridge supply, with four tubes, with and
> efficiency of around 93.8%

These are interesting experiments, though if I wanted a high voltage diode
from a microwave oven, I would be tempted to take the small one made from
silicon instead.

What is the advantage over using several secondary windings, each with its
own rectifier made from 1N4007 (or better) diodes, and then connecting the
DC outputs from the rectifiers in series?

(or the standard old technique of using several 1kV diodes in series, with a
capacitor and resistor in parallel with each diode, to keep the voltage
sharing even)

Chris

From 3920612765824687606
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.germany.com!news.osn.de!diablo2.news.osn.de!news.tele.dk!news.tele.dk!small.news.tele.dk!sn-xt-sjc-02!sn-xt-sjc-11!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Chris Jones <lugnut808@nospam.yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
Date: Sat, 17 Mar 2007 01:40:15 +0000
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vmhneth9i4i68@corp.supernews.com>
References: <12vl7d0bq4bsu95@corp.supernews.com>
User-Agent: KNode/0.7.7
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Complaints-To: abuse@supernews.com
Lines: 41
Xref: g2news1.google.com rec.radio.amateur.homebrew:12657

Dave wrote:

> I saw somewhere that you could use an NE-2 bulb between the antenna "hot"
> lead and ground as a static discharge device for a receiver, but can't
> find
> an NE-2 and don't know anything about neon bulbs. Anybody know if a
> standard neon bulb rated at 125 VAC could be used in this manner? Or how
> I

> could test it? I'm thinking about charging up a 50V electrolytic
> capacitor
> and hitting the bulb with that, to see if it discharges the cap. I have
> a .22uF 630V mylar cap between the antenna and the input to the tuner
> because the 35V disc I had there got blown, so I know that static can be a
> problem with my setup even though it is grounded at two points.
> Would welcome any ideas anyone has on how to make this work...
>
> Thanks,
>
> Dave

Your "standard neon bulb rated at 125 VAC" probably contains a series resistor of maybe 100kOhms, and so will be not much use for protecting anything, because any current would develop too much voltage across the series resistor. If you open it up and remove the resistor then it will be able to shunt larger currents, though it still may not be ideal for protecting receivers. (The main advantage of the neon as a protection device is very low capacitance which could be important on the higher frequency bands, but another advantage would be that it would introduce practically no intermodulation even in very strong signal conditions, but the breakdown voltage is probably so high that it may not protect solid - state receivers very well, as someone else already mentioned. You can buy a ceramic cased gas discharge surge arrestor, they are popular for telephone circuits. e.g.:
http://www.epcos.com/inf/100/ds/ec350xx0810.pdf
)

You can probably make the bare neon bulb flicker by charging up something with static electricity (e.g. rub a balloon on your head or on a jumper) and then hold this near the bulb so you can hear crackling.

Chris

From 754629572002128193
X-Google-Thread: fc2a5,c93dc1ba9d51bfa0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 16 Mar 2007 20:46:21 -0500
Date: Sat, 17 Mar 2007 01:47:31 +0000
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/20060910 SeaMonkey/1.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need help identifying CSdc diode block
References: <nfilv2ldqoku9fhlp8mhmbpihnt3r9uk6u@4ax.com>
In-Reply-To: <nfilv2ldqoku9fhlp8mhmbpihnt3r9uk6u@4ax.com>
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Content-Transfer-Encoding: 7bit
Message-ID: <t4SdnZEq7P3w1WbYRVnyiAA@pipex.net>
Lines: 38
NNTP-Posting-Host: 81.178.239.196
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suH1CAif44wP3mCj+1g8e4MkaXSPAv!
Uqjax0yOR+RHtsDSiTk8pJSFHee0LavPUA5nx0Wb6wdK20FTJYp0bKOlmsSEnFPv/T5/+o/UpO83!
hctM7BVvG0t9U5c=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12658

Kenneth Grimm wrote:

> I've got a set of four epoxy block diodes that I would like to use in
> my next home brew amplifier power supply. The problem is that the
> company that made them, CSdc (Conditioning Semiconductor Devices
> Corporation) was bought up back in the 80's and I can't find anything
> on the web about the value of the devices. I would sure like to know
> what C67-6225A by CSdc is. They are 1 inch square by 5.5 inches long
> black epoxy blocks. Any help would be greatly appreciated.

============================

Your expoxy embedded diode block is highly likely containing some 1000 V
PIV silicon diodes wired in series.
Suggest ,with a low voltage power supply, you allow 20 - 30 mA
(forward bias) current to flow through the block.
With the knowledge that the voltage across each silicon diode is approx
0.7 V you measure the voltage across the block ,and then can
determine the number of diodes and hence the overall PIV. The max AC
rms voltage to be rectified should be less than 35 percent of that
PIV, being 70 percent of half the PIV

The max current the block can accept can be ESTIMATED in 2 ways.
Allow a DC current to to flow such that after a while the block is
'hand warm' , alternatively the current at which the voltage across
the block has increased by 30 percent compared with the voltage across
the block at a current of 20 -30 mA

I agree the above methods do not constitute a very scientific approach
,yet they provide useful info for practical purposes.

I have done the same with some 'mystery' HV diodes and so far ....so good.

Suggest you test/verify the above method(s) with a HV diode from a
microwave oven with a known capacity .If not known ,the HV voltage of
the relevant transformer can be calculated (if not measured directly)
by connecting the primary winding to a low voltage (10 -15 V) and
measuring the voltage across the secondary.

Frank   GM0CSZ / KN6WH

From 5493479818224719427
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!sn-xt-sjc-05!sn-xt-sjc-09!sn-xt-sjc-08!
sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
Date: Fri, 16 Mar 2007 21:25:26 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vmkcurnm7vj15@corp.supernews.com>
References: <12vl7d0bq4bsu95@corp.supernews.com>
<12vmhneth9i4i68@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 62
Xref: g2news1.google.com rec.radio.amateur.homebrew:12659

"Chris Jones" <lugnut808@nospam.yahoo.com> wrote in message
news:12vmhneth9i4i68@corp.supernews.com...
> Dave wrote:
>
>> I saw somewhere that you could use an NE-2 bulb between the antenna "hot"
>> lead and ground as a static discharge device for a receiver, but can't
>> find
>> an NE-2 and don't know anything about neon bulbs. Anybody know if a
>> standard neon bulb rated at 125 VAC could be used in this manner? Or how
>> I
>> could test it? I'm thinking about charging up a 50V electrolytic
>> capacitor
>> and hitting the bulb with that, to see if it discharges the cap. I have
>> a .22uF 630V mylar cap between the antenna and the input to the tuner
>> because the 35V disc I had there got blown, so I know that static can be
>> a
>> problem with my setup even though it is grounded at two points.
>> Would welcome any ideas anyone has on how to make this work...
>>
>> Thanks,
>>
>> Dave
>
> Your "standard neon bulb rated at 125 VAC" probably contains a series
> resistor of maybe 100kOhms, and so will be not much use for protecting
> anything, because any current would develop too much voltage across the

> series resistor. If you open it up and remove the resistor then it will
> be
> able to shunt larger currents, though it still may not be ideal for
> protecting receivers. (The main advantage of the neon as a protection
> device is very low capacitance which could be important on the higher
> frequency bands, but another advantage would be that it would introduce
> practically no intermodulation even in very strong signal conditions, but
> the breakdown voltage is probably so high that it may not protect solid -
> state receivers very well, as someone else already mentioned. You can buy
> a ceramic cased gas discharge surge arrestor, they are popular for
> telephone circuits. e.g.:
> http://www.epcos.com/inf/100/ds/ec350xx0810.pdf
>)
>
> You can probably make the bare neon bulb flicker by charging up something
> with static electricity (e.g. rub a balloon on your head or on a jumper)
> and then hold this near the bulb so you can hear crackling.
>
> Chris

Hey Chris,

Thanks for the input. I am wondering why a neon bulb would include a 100K resistor... To maybe lessen the current being driven through the bulb? I'm going to have to check that out. Still, I am thinking that a couple of back-to-back diodes each with a 100K resistor in series would probably do what I want. Going to try my hand at building a test-bed and give it a shot. Will check out the gas discdharge surge arrestor though. Sounds much simpler, and likely more reliable.

Appreciate your feeback.

Dave

From 880627150631857596
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!nx01.iad01.newshosting.com!
newshosting.com!post02.iad01!roadrunner.com!not-for-mail
Date: Fri, 16 Mar 2007 22:28:04 -0400
From: **THE-RFI-EMI-GUY** <rhyolite@nettally.com>
Organization: Central Scrutinizer
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design

Subject: Re: Detecting Ultrasound
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
<lcf5v210tvuhb1th6k0ttdf0bodo44o9sj@4ax.com>
<1173871066.544376.91060@p15g2000hsd.googlegroups.com>
<1173976600_39805@sp6iad.superfeed.net>
<2dmdnSgnEYnk5GTYnZ2dnUVZ8sOonZ2d@pipex.net>
In-Reply-To: <2dmdnSgnEYnk5GTYnZ2dnUVZ8sOonZ2d@pipex.net>
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Content-Transfer-Encoding: 8bit
Lines: 32
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X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12660
sci.electronics.design:207257

Try using a Motorola Peizo Tweeter. I think some are spec'd into
ultrasonic range.

Highland Ham wrote:

>> Do you know of any freq response curves on the web for the garden
>> variety electrets? I've looked and haven't found any.
>
> ====================
> I found an Archer packaged (for Tandy) cat no 270-092B Electret
> Condenser Mike Element in its original Package, complete with response
> curve.
> From 30 - 3000 Hz the response is flat.
> From 3000 Hz to 5000 Hz the response increases by approx 10 dB.
> From 5000 - 9000 Hz the response drops such that it is back to its
> original level at 9000 Hz .Above that freq the response drops.
> Response curve is not extended beyond 12000 Hz
>
>
>
> Frank   GM0CSZ / KN6WH

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From -1674860684927594O5
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit

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Path: g2news1.google.com!news4.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe14.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <12vl7d0bq4bsu95@corp.supernews.com>
<12vmhneth9i4i68@corp.supernews.com> <12vmkcurnm7vj15@corp.supernews.com>
Subject: Re: ? on neon light as static discharge device
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <3oIKh.25488$Cp1.9926@newsfe14.lga>
Date: Fri, 16 Mar 2007 22:29:13 -0400
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X-Complaints-To: admin@cox.net
X-Trace: newsfe14.lga 1174098559 68.0.230.54 (Fri, 16 Mar 2007 19:29:19 MST)
NNTP-Posting-Date: Fri, 16 Mar 2007 19:29:19 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:12661
```

"Dave" <db5151@hotmail.com> wrote in message even in very strong
> Hey Chris,
>
> Thanks for the input. I am wondering why a neon bulb would include a 100K
> resistor... To maybe lessen the current being driven through the bulb?
> I'm going to have to check that out.
snip
.
>
> Appreciate your feeback.
>
> Dave
>
The neon lamp works the same as a gas voltage
regulator--about 80 volts or so IIRC...
The resistor serves to limit the current.

Pete

>

```
From 8715147371446874636
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-
```

sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
Date: Fri, 16 Mar 2007 21:38:00 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vml4ilmg0rq02@corp.supernews.com>
References: <12vl7d0bq4bsu95@corp.supernews.com>
<XPGdna0PRImVI2fYnZ2dnUVZ8vSdnZ2d@pipex.net> <12vljuojf3pgu4c@corp.supernews.com>
<F%DKh.14670$mJ1.12958@newsfe22.lga>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 44
Xref: g2news1.google.com rec.radio.amateur.homebrew:12662

"Uncle Peter" <radioconnection@cox.net> wrote in message
news:F%DKh.14670$mJ1.12958@newsfe22.lga...
>
> "Dave" <db5151@hotmail.com> wrote in message
> news:12vljuojf3pgu4c@corp.supernews.com...
>> >> Frank   GM0CSZ / KN6WH
>>
>> Thanks for the input, Frank. I believe this, or something like it, is
>> what I am going to have to do. I've already got the bulb installed in
>> the receiver case, and I guess I'll leave it there to warn me of
>> impending doom, but the resistor idea is what will probably save my
>> bacon.
>>
>> Is a metal-oxide resistor the same thing as a metal-film resistor? Or
>> would that be inductive and mess with my incoming signal?
>>
>> Thanks much,
>>
>> Dave
>>
>
> Why would the inductance be of any concern? It would
> be effectively in series with the resistance, thus raising the
> device's impedance... I'd think that would lessen the
> loading on receive or transmit signals.
>
> Pete
>>

Hello Pete,

I was actually thinking something similar, that the diodes would prevent any current from flowing through the circuit so long as the voltage remained on the small-signal level. And if a large pulse did come through, the inductance of the resistors would be the least of my worries. Any interferrance it caused in my receiver would be brief and likely go unnoticed. Does this sound plausible, or at least somewhat predictive of likely real-life events in the case of a static charge coming down the line?

Dave

```
From -9167332006463655407
X-Google-Thread: fc2a5,d095ee26342dab00
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr29.news.prodigy.net.POSTED!35cb456c!not-for-
mail
From: "N9WOS" <N9WOS@nobug.sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <eE7Kh.5359$JZ3.3832@newssvr13.news.prodigy.net>
<5DiKh.7654$yW.5224@newssvr11.news.prodigy.net>
<12vmgq4dooq3b4b@corp.supernews.com>
Subject: Re: Microwave magnetron as a rectifier diode.
Lines: 43
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Message-ID: <ZJIKh.3579$Qw.102@newssvr29.news.prodigy.net>
NNTP-Posting-Host: 66.72.68.114
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr29.news.prodigy.net 1174099961 ST000 66.72.68.114 (Fri, 16 Mar
2007 21:52:41 EST)
NNTP-Posting-Date: Fri, 16 Mar 2007 21:52:41 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
FKPO@MC@OPUAW]TX]BCBNWX@RJ_XPDLMN@GZ_GYO^BTBTSUBYFWEAE[YJLYPIWKHTFCMZKVMB^[Z^DOBRV
VMOSPFHNSYXVDIE@X\BUC@GTSX@DL^GKFFHQCCE\G[JJBMYDYIJCZM@AY]GNGPJD]YNNW\GSX^GSCKHA[]
@CCB\[@LATPD\L@J\\PF]VR[QPJN
Date: Sat, 17 Mar 2007 02:52:41 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:12663
```

> These are interesting experiments, though if I wanted a high voltage diode
> from a microwave oven, I would be tempted to take the small one made from
> silicon instead.
>
> What is the advantage over using several secondary windings, each with its
> own rectifier made from 1N4007 (or better) diodes, and then connecting the
> DC outputs from the rectifiers in series?

>
> (or the standard old technique of using several 1kV diodes in series, with
a
> capacitor and resistor in parallel with each diode, to keep the voltage
> sharing even)
>
> Chris

You are missing the point........ :-)

Why would someone use a large heavy piece of equipment weighing up to several hundred pounds with several large heat generating glass things in them, several large metal cubes in them, with operating voltages ranging up to a thousand volts..... When they could use a little light square box, about the size of two bricks, with a fancy display, that runs off of an almost harmless 12V DC, and will do the exact same thing?

Because they want to!!!!!!!

Magnetron tubes are too neat looking to throw away, or leave unused.

I think that a set of magnetron tubes that have been removed from the cases, and set on a set of ceramic standoffs would have definite cool appeal in a HV power supply.

I wonder what the internal electrode to electrode breakdown voltage would be? That would be the PRV operating limit if you took a magnetron tube and put it in a one gallon paint bucket filled with mineral oil. It wouldn't have a problem with arcing over on the outside in that setup. Wouldn't need cooling fins on the tube any more, and you could put the filament transformer in the bucket with the magnetron. all you would have coming out of the bucket is the AC line running the transformer, and the two HV feedthroughs for the HV connections to the magnetron.

From 8933306012469831328
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!sn-xt-sjc-04!sn-xt-sjc-09!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Chris Jones <lugnut808@nospam.yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
Date: Sat, 17 Mar 2007 02:58:36 +0000
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vmmacci8q7ae9@corp.supernews.com>
References: <12vl7d0bq4bsu95@corp.supernews.com>
<12vmhneth9i4i68@corp.supernews.com> <12vmkcurnm7vj15@corp.supernews.com>
User-Agent: KNode/0.7.7
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Complaints-To: abuse@supernews.com
Lines: 110
Xref: g2news1.google.com rec.radio.amateur.homebrew:12664

Dave wrote:

>
> "Chris Jones" <lugnut808@nospam.yahoo.com> wrote in message
> news:12vmhneth9i4i68@corp.supernews.com...
>> Dave wrote:
>>
>>> I saw somewhere that you could use an NE-2 bulb between the antenna
>>> "hot" lead and ground as a static discharge device for a receiver, but
>>> can't find
>>> an NE-2 and don't know anything about neon bulbs. Anybody know if a
>>> standard neon bulb rated at 125 VAC could be used in this manner? Or
>>> how I
>>> could test it? I'm thinking about charging up a 50V electrolytic
>>> capacitor
>>> and hitting the bulb with that, to see if it discharges the cap. I have
>>> a .22uF 630V mylar cap between the antenna and the input to the tuner
>>> because the 35V disc I had there got blown, so I know that static can be
>>> a
>>> problem with my setup even though it is grounded at two points.
>>> Would welcome any ideas anyone has on how to make this work...
>>>
>>> Thanks,
>>>
>>> Dave
>>
>> Your "standard neon bulb rated at 125 VAC" probably contains a series
>> resistor of maybe 100kOhms, and so will be not much use for protecting
>> anything, because any current would develop too much voltage across the
>> series resistor. If you open it up and remove the resistor then it will
>> be
>> able to shunt larger currents, though it still may not be ideal for
>> protecting receivers. (The main advantage of the neon as a protection
>> device is very low capacitance which could be important on the higher
>> frequency bands, but another advantage would be that it would introduce
>> practically no intermodulation even in very strong signal conditions, but
>> the breakdown voltage is probably so high that it may not protect solid -
>> state receivers very well, as someone else already mentioned. You can
>> buy a ceramic cased gas discharge surge arrestor, they are popular for
>> telephone circuits. e.g.:
>> http://www.epcos.com/inf/100/ds/ec350xx0810.pdf
>>)
>>
>> You can probably make the bare neon bulb flicker by charging up something
>> with static electricity (e.g. rub a balloon on your head or on a jumper)
>> and then hold this near the bulb so you can hear crackling.
>>

>> Chris
>
> Hey Chris,
>
> Thanks for the input. I am wondering why a neon bulb would include a 100K
> resistor... To maybe lessen the current being driven through the bulb?
> I'm
> going to have to check that out. Still, I am thinking that a couple of
> back-to-back diodes each with a 100K resistor in series would probably do
> what I want. Going to try my hand at building a test-bed and give it a
> shot. Will check out the gas discdharge surge arrestor though. Sounds
> much simpler, and likely more reliable.
>
> Appreciate your feeback.
>
> Dave

I think that the diodes with resistors in series will probably not be ideal.

If you want to just discharge small steady currents of static electricity being picked up by your antenna then all you need is a 100k (or 10k) resistor from the antenna to ground.

If you want to protect against voltage spikes (e.g. caused by distant lightning), (practically nothing will stop direct lightning) then your diodes, connected in parallel, and one pointing in each direction, will offer some protection, but in that case you must leave out the series resistors because the series resistors will stop the diodes from performing any useful function. If you are likely to experience strong radio signals that could produce more than 0.2V on your antenna (and I would guess that the answer is likely to be yes), then maybe the diodes will introduce intermodulation (a form of interference) into your signal. In this case, a number of diodes in series, in each direction, will allow larger RF signals to pass without excessive distortion.

```
   \|/
    |  Antenna
    |
    *-----\/\/\/\------.  100k resistor
    |                  |
    *--|>|--|>|--|>|---*  3x diodes, one direction
    |                  |
    *---|<|--|<|--|<|--*  3x diodes, other direction
    |                  |
    '--||--To Rx      ___ Earth
      Cap              _
                       .
```

For very high frequencies, small diodes such as 1N4148 may be needed, though for lower frequencies you may be able to get away with using larger, more robust diodes. At higher frequencies, big diodes may have too much capacitance.

This won't give all that much protection against powerful surges, so if your radio is especially valuable then a commercial protection device might be a good idea, and in any case unplugging the antenna when not in use would be sensible.

Instead of the above circuit using the diodes in parallel, you could also try using a pair of zener diodes in series, one pointing in each direction.

Chris

```
From 1281318942432383425
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newshub.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-03!sn-xt-sjc-06!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
Date: Fri, 16 Mar 2007 22:08:48 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vmmu8lm7amqba@corp.supernews.com>
References: <12vl7d0bq4bsu95@corp.supernews.com>
<12vmhneth9i4i68@corp.supernews.com> <12vmkcurnm7vj15@corp.supernews.com>
<3oIKh.25488$Cp1.9926@newsfe14.lga>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 29
Xref: g2news1.google.com rec.radio.amateur.homebrew:12665
```

"Uncle Peter" <radioconnection@cox.net> wrote in message
news:3oIKh.25488$Cp1.9926@newsfe14.lga...

```
>
> "Dave" <db5151@hotmail.com> wrote in message  even in very strong
>> Hey Chris,
>>
>> Thanks for the input.  I am wondering why a neon bulb would include a
>> 100K resistor... To maybe lessen the current being driven through the
>> bulb? I'm going to have to check that out.
> snip
> .
>>
>> Appreciate your feeback.
>>
>> Dave
```

```
>>
> The neon lamp works the same as a gas voltage
> regulator--about 80 volts or so IIRC...
> The resistor serves to limit the current.
>
> Pete
>

Gotcha.  Thanks.

Dave




From -3463570448355998791
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!sn-xt-sjc-04!sn-xt-sjc-09!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
Date: Fri, 16 Mar 2007 22:17:31 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vmnekev71hq27@corp.supernews.com>
References: <12vl7d0bq4bsu95@corp.supernews.com>
<12vmhneth9i4i68@corp.supernews.com> <12vmkcurnm7vj15@corp.supernews.com>
<12vmmacci8q7ae9@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 155
Xref: g2news1.google.com rec.radio.amateur.homebrew:12666


"Chris Jones" <lugnut808@nospam.yahoo.com> wrote in message
news:12vmmacci8q7ae9@corp.supernews.com...
> Dave wrote:
>
>>
>> "Chris Jones" <lugnut808@nospam.yahoo.com> wrote in message
>> news:12vmhneth9i4i68@corp.supernews.com...
>>> Dave wrote:
>>>
>>>> I saw somewhere that you could use an NE-2 bulb between the antenna
>>>> "hot" lead and ground as a static discharge device for a receiver, but
>>>> can't find
>>>> an NE-2 and don't know anything about neon bulbs.  Anybody know if a
```

>>>> standard neon bulb rated at 125 VAC could be used in this manner? Or
>>>> how I
>>>> could test it? I'm thinking about charging up a 50V electrolytic
>>>> capacitor
>>>> and hitting the bulb with that, to see if it discharges the cap. I
>>>> have
>>>> a .22uF 630V mylar cap between the antenna and the input to the tuner
>>>> because the 35V disc I had there got blown, so I know that static can
>>>> be
>>>> a
>>>> problem with my setup even though it is grounded at two points.
>>>> Would welcome any ideas anyone has on how to make this work...
>>>>
>>>> Thanks,
>>>>
>>>> Dave
>>>
>>> Your "standard neon bulb rated at 125 VAC" probably contains a series
>>> resistor of maybe 100kOhms, and so will be not much use for protecting
>>> anything, because any current would develop too much voltage across the
>>> series resistor. If you open it up and remove the resistor then it will
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>>> practically no intermodulation even in very strong signal conditions,
>>> but
>>> the breakdown voltage is probably so high that it may not protect
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>>> state receivers very well, as someone else already mentioned. You can
>>> buy a ceramic cased gas discharge surge arrestor, they are popular for
>>> telephone circuits. e.g.:
>>> http://www.epcos.com/inf/100/ds/ec350xx0810.pdf
>>>)
>>>
>>> You can probably make the bare neon bulb flicker by charging up
>>> something
>>> with static electricity (e.g. rub a balloon on your head or on a jumper)
>>> and then hold this near the bulb so you can hear crackling.
>>>
>>> Chris
>>
>> Hey Chris,
>>
>> Thanks for the input. I am wondering why a neon bulb would include a
>> 100K
>> resistor... To maybe lessen the current being driven through the bulb?
>> I'm
>> going to have to check that out. Still, I am thinking that a couple of
>> back-to-back diodes each with a 100K resistor in series would probably do
>> what I want. Going to try my hand at building a test-bed and give it a
>> shot. Will check out the gas discdharge surge arrestor though. Sounds

>> much simpler, and likely more reliable.
>>
>> Appreciate your feeback.
>>
>> Dave
>
> I think that the diodes with resistors in series will probably not be
> ideal.
>

I was intendending to connect the diodes in parallel, such as you describe
below. Sorry for the lack of clarity...

> If you want to just discharge small steady currents of static electricity
> being picked up by your antenna then all you need is a 100k (or 10k)
> resistor from the antenna to ground.
>
> If you want to protect against voltage spikes (e.g. caused by distant
> lightning), (practically nothing will stop direct lightning) then your
> diodes, connected in parallel, and one pointing in each direction, will
> offer some protection, but in that case you must leave out the series
> resistors because the series resistors will stop the diodes from
> performing
> any useful function.

Why would the resistors disable the diodes? I expected they would merely
limit the current through the diodes...

>If you are likely to experience strong radio signals
> that could produce more than 0.2V on your antenna (and I would guess that
> the answer is likely to be yes), then maybe the diodes will introduce
> intermodulation (a form of interference) into your signal. In this case,
> a
> number of diodes in series, in each direction, will allow larger RF
> signals
> to pass without excessive distortion.
>

```
>   \|/
>    |  Antenna
>    |
>    *-----\/\/\/\------.  100k resistor
>    |                   |
>    *--|>|--|>|--|>|---*  3x diodes, one direction
>    |                   |
>    *---|<|--|<|--|<|--*  3x diodes, other direction
>    |                   |
>    '--||--To Rx      ___ Earth
>      Cap              _
>                       .
>
```

> For very high frequencies, small diodes such as 1N4148 may be needed,
> though

> for lower frequencies you may be able to get away with using larger, more
> robust diodes. At higher frequencies, big diodes may have too much
> capacitance.

I am working in the HF region, 2-30 MHz.

>
> This won't give all that much protection against powerful surges, so if
> your
> radio is especially valuable then a commercial protection device might be
> a
> good idea, and in any case unplugging the antenna when not in use would be
> sensible.

Oh yes, I do unplug it when not in use. Definetly.

>
> Instead of the above circuit using the diodes in parallel, you could also
> try using a pair of zener diodes in series, one pointing in each
> direction.
>

I was thinking about Zener diodes, and trying to figure how they might be
applied. My only hesitation there is the power dissipation capabilities of
Zeners, compared to standard diodes.

> Chris
>

Thank you very much for the input. I appreciate the chance to bounce ideas
off of other people and hear their responses.

Dave

From -4937239238188717409
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o5g2000hsb.googlegroups.com!not-for-mail
From: "Arv" <arvid.evans@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
Date: 16 Mar 2007 20:53:22 -0700
Organization: http://groups.google.com
Lines: 71
Message-ID: <1174103602.554214.249100@o5g2000hsb.googlegroups.com>
References: <12vl7d0bq4bsu95@corp.supernews.com>
   <12vmhneth9i4i68@corp.supernews.com>
NNTP-Posting-Host: 71.32.182.171

```
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174103604 13415 127.0.0.1 (17 Mar 2007 03:53:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 17 Mar 2007 03:53:24 +0000 (UTC)
In-Reply-To: <12vmhneth9i4i68@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.2) Gecko/
20060601 Firefox/2.0.0.2 (Ubuntu-edgy),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o5g2000hsb.googlegroups.com; posting-host=71.32.182.171;
   posting-account=j8G-ZQ0AAAArGSmSv5U2nhz6Vo5TeLQN
Xref: g2news1.google.com rec.radio.amateur.homebrew:12667

On 16 Mar, 19:40, Chris Jones <lugnut...@nospam.yahoo.com> wrote:
> Dave wrote:
> > I saw somewhere that you could use an NE-2 bulb between the antenna "hot"
> > lead and ground as a static discharge device for a receiver, but can't
> > find
> > an NE-2 and don't know anything about neon bulbs.  Anybody know if a
> > standard neon bulb rated at 125 VAC could be used in this manner?  Or how
> > I
> > could test it?  I'm thinking about charging up a 50V electrolytic
> > capacitor
> > and hitting the bulb with that, to see if it discharges the cap.  I have
> > a .22uF 630V mylar cap between the antenna and the input to the tuner
> > because the 35V disc I had there got blown, so I know that static can be a
> > problem with my setup even though it is grounded at two points.
> > Would welcome any ideas anyone has on how to make this work...
>
> > Thanks,
>
> > Dave
>
> Your "standard neon bulb rated at 125 VAC" probably contains a series
> resistor of maybe 100kOhms, and so will be not much use for protecting
> anything, because any current would develop too much voltage across the
> series resistor.  If you open it up and remove the resistor then it will be
> able to shunt larger currents, though it still may not be ideal for
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> device is very low capacitance which could be important on the higher
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> a ceramic cased gas discharge surge arrestor, they are popular for
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> )
>
> You can probably make the bare neon bulb flicker by charging up something
> with static electricity (e.g. rub a balloon on your head or on a jumper)
> and then hold this near the bulb so you can hear crackling.
>
```

> Chris

The so-called 125 volt neon bulb is probably a 50 volt neon bulb with a 47K to 150K resistor in series. Without the resistor it would draw too much current from the 125 volt mains and either trip a circuit breaker or destroy the NE-2 bulb, probably both.

An NE-2 bulb has a breakdown potential of approximately 50 volts (slightly more or less depending on external light conditions). If your transmitter never puts more than 50 volts on the feed line you could conceivably use this for a impulse suppression device, but bear in mind that it will not protect your receiver from voltages of less than 50 volts. Once the gas in a neon bulb reaches the breakdown point (50 volts in an NE-2) it becomes a short circuit until the voltage drops below the breakdown point.

If you are plagued by static build up on your antenna, and if your feed line normally operates at a low impedance (i.e. 50 ohms) you can use a 10K ohm 2-watt non-inductive resistor to bleed off the static build up. Do not use a wire wound resistor because it's inductance may have a negative impact on feed line SWR. If you want to prevent close-in lightning strikes from causing impulse voltage of over 50 volts you can use that NE-2, but there are better devices like the telephone protector that a previous post recommended. Many persons use a simple impulse protector that is homemade from two pointed sections of metal with one tied to your feed line and the other connected to a good earth ground. This method is documented in most ham radio antenna handbooks.

Arv
_._

From 9118663871049206968
X-Google-Thread: fc2a5,962cd6a2eca956d0,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l77g2000hsb.googlegroups.com!not-for-mail
From: "gbowne1" <gbowne1@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: My Introductory Post..
Date: 16 Mar 2007 21:26:15 -0700
Organization: http://groups.google.com
Lines: 38
Message-ID: <1174105575.470841.192420@l77g2000hsb.googlegroups.com>
NNTP-Posting-Host: 64.40.59.85
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174105577 29344 127.0.0.1 (17 Mar 2007 04:26:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 17 Mar 2007 04:26:17 +0000 (UTC)

User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l77g2000hsb.googlegroups.com; posting-host=64.40.59.85;
   posting-account=8BAS0Q0AAAAnJPh6jhjhjuvPq1nRIH_s
Xref: g2news1.google.com rec.radio.amateur.homebrew:12668

Hello! :-)

I'm interested in homebrewing. I've been a SWL since 1986, and I'm a newcomer to amateur radio, although I have been interested in that since then too, and will be getting my ticket during the course of the following year. I now own a Yaesu FT-757GX which I use as my HF Gen coverage receiver so I can still listen to SW, and practice code and then get my ticket, while working on building the rig and slowly learning still. Mind you, I also have a Fluke 8050A DMM too that I bought last year which will help me. (Still learning how to use it)

In an effort to help me learn more about electronics than I already know, not a whole lot at this point, I am going to build something with which I can use once I finally get my ticket.

In search for helpful documentation, I found a book by Randy L. Henderson, titled "Build Your Own Intelligent Amateur Radio Transceiver". While now 10 years old, the book has many outdated components, and other errors in the book. While a good design idea, I think it could be improved on to 2006/2007 standards in many ways.. which I will attempt to do. The rig is based on the 80C31 / 8051 family with a 27C64 EPROM in with a 7805 regulator, and 74LS373 on the computer board. The computer board also listed as having: a 1N4001, a 1N4148, a 2N2222A, a 2N2907, and lastly a SK3444. It also featured a 100,000uF memory backup capacitor and a 6.2v Zener.

My basic dimensions for the chassis are 16.1875" W x 6.1875" H x 15" D.. so that will be the working envelope of whatever design I end up with. That's a pretty big space, and I like having space to work inside.

Well, anyhow this is my introductory post, and I'd love to hear your comments, suggestions, etc.

Greg B.
g b o w n e 1 @ y a h o o . c o m (remove spaces)

From 433221718701743052
X-Google-Thread: fc2a5,962cd6a2eca956d0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newshub.sdsu.edu!

newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!newssvr11.news.prodigy.net.POSTED!35cb456c!not-for-mail
From: "N9WOS" <N9WOS@nobug.sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1174105575.470841.192420@l77g2000hsb.googlegroups.com>
Subject: Re: My Introductory Post..
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Message-ID: <AxKKh.8065$yW.3898@newssvr11.news.prodigy.net>
NNTP-Posting-Host: 66.72.68.114
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr11.news.prodigy.net 1174107360 ST000 66.72.68.114 (Fri, 16 Mar 2007 23:56:00 EST)
NNTP-Posting-Date: Fri, 16 Mar 2007 23:56:00 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
TSU[@I_AOPUAW]TX]BCBNWX@RJ_XPDLMN@GZ_GYO^RR@ETUCCNSKQFCY@TXDX_WHSVB]ZEJLSNY\^J[CUVSA_QLFC^RQHUPH[P[NRWCCMLSNPOD_ESALHUK@TDFUZHBLJ\XGKL^NXA\EVHSP[D_C^B_^JCX^W]CHBAX]POG@SSAZQ\LE[DCNMUPG_VSC@VJM
Date: Sat, 17 Mar 2007 04:56:00 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:12669

> I now own a Yaesu FT-757GX which I use as my HF Gen
> coverage receiver so I can still listen to SW, and practice code and
> then get my ticket, while working on building the rig and slowly
> learning still.

Do a google search regarding the code requirement on ham radio, and be prepared for a surprise.

You don't need to know the code to get a ham license any more. The FCC has dropped the code requirement for all licenses. Even extra.

You can get an extra and not even know what CW is.

Best of luck.

From 2953840370710560254
X-Google-Thread: fc2a5,962cd6a2eca956d0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n59g2000hsh.googlegroups.com!not-for-mail
From: "gbowne1" <gbowne1@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: My Introductory Post..
Date: 16 Mar 2007 22:35:57 -0700
Organization: http://groups.google.com
Lines: 9
Message-ID: <1174109757.150517.174330@n59g2000hsh.googlegroups.com>
References: <1174105575.470841.192420@l77g2000hsb.googlegroups.com>
   <AxKKh.8065$yW.3898@newssvr11.news.prodigy.net>
NNTP-Posting-Host: 64.40.59.85
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174109758 29306 127.0.0.1 (17 Mar 2007 05:35:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 17 Mar 2007 05:35:58 +0000 (UTC)
In-Reply-To: <AxKKh.8065$yW.3898@newssvr11.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n59g2000hsh.googlegroups.com; posting-host=64.40.59.85;
   posting-account=8BAS0Q0AAAAnJPh6jhjhjuvPq1nRIH_s
Xref: g2news1.google.com rec.radio.amateur.homebrew:12670

Well, I still think it best to learn it, especially in theory.. lots of beacons, etc. use it. I have no idea why they dropped it entirely. I know about the Feb. 23rd ruling. Oh, well...

Any help with my project is greatly appreciated.

Greg B.
Seattle, WA

From -5795858778360053616
X-Google-Thread: fc2a5,962cd6a2eca956d0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n76g2000hsh.googlegroups.com!not-for-mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My Introductory Post..
Date: 16 Mar 2007 23:13:04 -0700
Organization: http://groups.google.com
Lines: 60
Message-ID: <1174111984.355611.295310@n76g2000hsh.googlegroups.com>
References: <1174105575.470841.192420@l77g2000hsb.googlegroups.com>
NNTP-Posting-Host: 63.73.218.131
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1174111985 12272 127.0.0.1 (17 Mar 2007 06:13:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 17 Mar 2007 06:13:05 +0000 (UTC)

In-Reply-To: <1174105575.470841.192420@l77g2000hsb.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.2.1) Gecko/20030225,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n76g2000hsh.googlegroups.com; posting-host=63.73.218.131;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com rec.radio.amateur.homebrew:12671

gbowne1 wrote:

>   I'm interested in homebrewing. I've been a SWL since 1986, and I'm a newcomer to amateur radio, although I have been interested in that since then too, and will be getting my ticket during the course of the following year. I now own a Yaesu FT-757GX which I use as my HF Gen coverage receiver so I can still listen to SW, and practice code and then get my ticket, while working on building the rig and slowly learning still. Mind you, I also have a Fluke 8050A DMM too that I bought last year which will help me. (Still learning how to use it)
>
>   In an effort to help me learn more about electronics than I already know, not a whole lot at this point, I am going to build something with which I can use once I finally get my ticket.
>
>   In search for helpful documentation, I found a book by Randy L. Henderson, titled
> "Build Your Own Intelligent Amateur Radio Transceiver". While now 10 years old, the book has many outdated components, and other errors in the book. While a good design idea, I think it could be improved on to 2006/2007 standards in many ways.. which I will attempt to do. The rig is based on the 80C31 / 8051 family with a 27C64 EPROM in with a 7805 regulator, and 74LS373 on the computer board. The computer board also listed as having: a 1N4001, a 1N4148, a 2N2222A, a 2N2907, and lastly a SK3444. It also featured a 100,000uF memory backup capacitor and a 6.2v Zener.
>
>   My basic dimensions for the chassis are 16.1875" W x 6.1875" H x 15" D.. so that will be the working envelope of whatever design I end up with. That's a pretty big space, and I like having space to work inside.
>
>   Well, anyhow this is my introductory post, and I'd love to hear your comments, suggestions, etc.

My catchphrase of advice: "If you don't know how to do it, you don't know how to do it with a computer".

I don't know much about the book in question and the radio it builds, but the parts you name are all computer parts, not radio parts. My gut advice would be that you not build a computer but a radio :-)

My feeling is that if you want to do something that is a mix of analog and digital to do something interesting in radio, go through the SDR ("Software-Defined Radio") route. Google "software defined radio" along with ham to see some links to stuff that's been published in QEX and other sources the past couple of years.

But I'd encourage you to also build some really, really simple regen receivers before doing anything that has a computer in it. The learning curve will be so much less steep, and you'll learn so much more about radio (as opposed to computers) by doing so.

More generically, also consider investing in the ARRL Handbook and Horowitz and Hill's _The Art of Electronics_. Neither are abstract academic texts, they are all about hands-on stuff. Together they will cost more than a good used ham rig, though they will pay off much more in the long run!

Tim.

From -1153140859353977218
X-Google-Thread: fc2a5,2bfec92201df58ad,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-online.de!news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!newsfe1-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Russell King" <rusking@tesco.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Aldi 720 watt 230v AC/12v portable genrator.
Lines: 34
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <iQRKh.7994$_v3.5167@newsfe1-gui.ntli.net>
Date: Sat, 17 Mar 2007 13:13:50 GMT
NNTP-Posting-Host: 80.3.41.183
X-Complaints-To: http://www.ntlworld.com/netreport
X-Trace: newsfe1-gui.ntli.net 1174137230 80.3.41.183 (Sat, 17 Mar 2007 13:13:50 GMT)
NNTP-Posting-Date: Sat, 17 Mar 2007 13:13:50 GMT
Organization: ntl Cablemodem News Service
Xref: g2news1.google.com rec.radio.amateur.homebrew:12672

Can I mention? -

If any of you want to go /P
Aldi is selling a generator for �50 tomorrow.

Russ

I quote-

"This smooth running suitcase type generator offers a reliable power source
in inaccessible areas.
It is ideal for any number of uses including power tools, lighting, camping
and other outdoor activities."

"Maximum output: 720 watts
Minimum output: 650 watts
2HP
Fuel tank capacity 7.5 litres
Fuel type: 50:1 petrol/oil mix
Speed: 3,000rpm
Starting system: recoil (electronic ignition)
Alternator: brushless self-exciting
Overload circuit breakers: 1 � 230V and 1 � 12V DC
AC power output: 1 � 230V socket
DC power output: 12V battery charging
Charging lead and clips included
Noise: 62dBA at 7 metres, LWA 85
Turbo frame mounted and supplied with carry handle
Front reading voltmeter
Weight 21.7kg"

From 8072682812134390785
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed1.ip.tiscali.net!
tiscali!newsfeed2.ip.tiscali.net!news.astraweb.com!newsrouter-eu.astraweb.com!
193.201.147.81.MISMATCH!feed.xsnews.nl!border-1.ams.xsnews.nl!feeder1.cambrium.nl!
feed.tweaknews.nl!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-05!sn-post-ams-02!
sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
Date: Sat, 17 Mar 2007 08:23:49 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vnqvd6koh5bb4@corp.supernews.com>
References: <12vl7d0bq4bsu95@corp.supernews.com>
<12vmhneth9i4i68@corp.supernews.com>
<1174103602.554214.249100@o5g2000hsb.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com

Lines: 94
Xref: g2news1.google.com rec.radio.amateur.homebrew:12673

"Arv" <arvid.evans@gmail.com> wrote in message
news:1174103602.554214.249100@o5g2000hsb.googlegroups.com...
> On 16 Mar, 19:40, Chris Jones <lugnut...@nospam.yahoo.com> wrote:
>> Dave wrote:
>> > I saw somewhere that you could use an NE-2 bulb between the antenna
>> > "hot"
>> > lead and ground as a static discharge device for a receiver, but can't
>> > find
>> > an NE-2 and don't know anything about neon bulbs. Anybody know if a
>> > standard neon bulb rated at 125 VAC could be used in this manner? Or
>> > how
>> > I
>> > could test it? I'm thinking about charging up a 50V electrolytic
>> > capacitor
>> > and hitting the bulb with that, to see if it discharges the cap. I
>> > have
>> > a .22uF 630V mylar cap between the antenna and the input to the tuner
>> > because the 35V disc I had there got blown, so I know that static can
>> > be a
>> > problem with my setup even though it is grounded at two points.
>> > Would welcome any ideas anyone has on how to make this work...
>>
>> > Thanks,
>>
>> > Dave
>>
>> Your "standard neon bulb rated at 125 VAC" probably contains a series
>> resistor of maybe 100kOhms, and so will be not much use for protecting
>> anything, because any current would develop too much voltage across the
>> series resistor. If you open it up and remove the resistor then it will
>> be
>> able to shunt larger currents, though it still may not be ideal for
>> protecting receivers. (The main advantage of the neon as a protection
>> device is very low capacitance which could be important on the higher
>> frequency bands, but another advantage would be that it would introduce
>> practically no intermodulation even in very strong signal conditions, but
>> the breakdown voltage is probably so high that it may not protect solid -
>> state receivers very well, as someone else already mentioned. You can
>> buy
>> a ceramic cased gas discharge surge arrestor, they are popular for
>> telephone circuits. e.g.:http://www.epcos.com/inf/100/ds/ec350xx0810.pdf
>>)
>>
>> You can probably make the bare neon bulb flicker by charging up something
>> with static electricity (e.g. rub a balloon on your head or on a jumper)
>> and then hold this near the bulb so you can hear crackling.
>>
>> Chris
>

> The so-called 125 volt neon bulb is probably a 50 volt neon bulb with
> a 47K to 150K resistor in series. Without the resistor it would draw
> too much current from the 125 volt mains and either trip a circuit
> breaker or destroy the NE-2 bulb, probably both.
>
> An NE-2 bulb has a breakdown potential of approximately 50 volts
> (slightly more or less depending on external light conditions). If
> your transmitter never puts more than 50 volts on the feed line you
> could conceivably use this for a impulse suppression device, but bear
> in mind that it will not protect your receiver from voltages of less
> than 50 volts. Once the gas in a neon bulb reaches the breakdown
> point (50 volts in an NE-2) it becomes a short circuit until the
> voltage drops below the breakdown point.
>
> If you are plagued by static build up on your antenna, and if your
> feed line normally operates at a low impedance (i.e. 50 ohms) you can
> use a 10K ohm 2-watt non-inductive resistor to bleed off the static
> build up. Do not use a wire wound resistor because it's inductance
> may have a negative impact on feed line SWR. If you want to prevent
> close-in lightning strikes from causing impulse voltage of over 50
> volts you can use that NE-2, but there are better devices like the
> telephone protector that a previous post recommended. Many persons
> use a simple impulse protector that is homemade from two pointed
> sections of metal with one tied to your feed line and the other
> connected to a good earth ground. This method is documented in most
> ham radio antenna handbooks.
>
> Arv
> _._
>

Wow. Thanks for the info on how the neon bulb works. I had no idea it
became a short once the gas was ionized, but now that makes sense.

I need to check out the pointed-metal device you describe. Sounds good, but
I am really trying to build the static protection into my RF amplifier so
that it goes wherever the amplifer goes. Afraid of someone scruffing their
feet on the carpet and touching the built-in extendable antenna.

Thanks, Arv, for the informative post. Much food for thought...

Dave

From 5401172724758469372
X-Google-Thread: fc2a5,2bfec92201df58ad
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail

NNTP-Posting-Date: Sat, 17 Mar 2007 09:59:14 -0500
Message-ID: <dEtyHxQe7$+FFA8X@ifwtech.co.uk>
Date: Sat, 17 Mar 2007 14:44:46 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Aldi 720 watt 230v AC/12v portable genrator.
References: <iQRKh.7994$_v3.5167@newsfe1-gui.ntli.net>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=iso-8859-1;format=flowed
Content-Transfer-Encoding: 8bit
User-Agent: Turnpike/6.05-M (<5mwkzTBRO5sETFKkGhyHHc+YXH>)
Lines: 44
NNTP-Posting-Host: 82.153.116.73
X-Trace: sv3-
dt5yjyrUiA78n54ghm8LMl76bBcblrbV4zVcFRlniCUGWHshfBjM3qCTnh+fNsAgs26QnAz81KudeOX!
XHi1zqexzpk9WbDiqumOwATY8nUIzxWE3iSxwZjCbxdqcEBByFzvJ54UnA6oH8z2qhJVxWEFyA==
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12674

Russell King wrote:
>Can I mention? -
>
>If any of you want to go /P
>Aldi is selling a generator for �50 tomorrow.
>
>Russ
>
>---------------------------------
>
>I quote-
>
>"This smooth running suitcase type generator offers a reliable power source
>in inaccessible areas.
>It is ideal for any number of uses including power tools, lighting, camping
>and other outdoor activities."
>
>"Maximum output: 720 watts
>Minimum output: 650 watts
>2HP
>Fuel tank capacity 7.5 litres
>Fuel type: 50:1 petrol/oil mix
>Speed: 3,000rpm
>Starting system: recoil (electronic ignition)
>Alternator: brushless self-exciting
>Overload circuit breakers: 1 � 230V and 1 � 12V DC
>AC power output: 1 � 230V socket

>DC power output: 12V battery charging
>Charging lead and clips included
>Noise: 62dBA at 7 metres, LWA 85
>Turbo frame mounted and supplied with carry handle
>Front reading voltmeter
>Weight 21.7kg"

I have a similar small generator, which is very handy for running power tools such as an electric drill or an angle-grinder... but switch-mode mains power supplies do NOT seem to like the waveform if they are the only load connected.

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

```
From -2328932210518103879
X-Google-Thread: fc2a5,49f916e344873b4d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 17 Mar 2007 10:05:07 -0500
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1172947038.139960.11470@t69g2000cwt.googlegroups.com>
<esci96$aqi$1@theodyn.ncf.ca>
<1172994989.867244.52320@s48g2000cws.googlegroups.com>
Subject: Re: Long range rural wireless high speed data options...
Date: Sat, 17 Mar 2007 10:05:05 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <CpCdnYgkEas-nmHYnZ2dnUVZ_oGlnZ2d@comcast.com>
Lines: 54
NNTP-Posting-Host: 24.14.246.77
X-Trace:
sv3-8PqzptlVxkK+0y8MofdUvxGPiuIHhv64mp1HmSK11RivD9oZ7upAFayhtSN+fyeUWZMRk2uOSj+p6I
2!hYiWAEWZeTLU/sbg683dkoMiudvFADOWx4kY42+I/gvZNHspOM/XijBIjXsiQWAt5V78ZUzRSVMS!
X1lvENapqspIgFfRmWQEA7fDdnYi
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12675
```

"Day Brown" <daybrown@hughes.net> wrote in message
news:1172994989.867244.52320@s48g2000cws.googlegroups.com...
> On Mar 3, 1:28 pm, e...@FreeNet.Carleton.CA (Michael Black) wrote:
>> "Day Brown" (daybr...@hughes.net) writes:
>> > No, I'm thinking about 180 mhz, kinda close to TV channel 8, but...
>> > out here, the nearest TV channel 8 transmitter is 300 miles away.
>> > Besides, TV antennas are being scrapped all the time; everyone is
>> > switching to Dish TV. Out in rural areas, RFI/EMI from ham gear no
>> > longer bothers anyone watching TV.
>>
>> > Besides, seems like there mite be pulse emitters/detectors that work
>> > at this speed. No Carrier wave, no IF. Technically, its *NOT*
>> > "radio". Ordinary tuners would ignore it; it aint AM nor FM. A 12 db
>> > antenna would be about 13' foot long. Awta go 30 miles to an ISP in
>> > some town that stays up serving users on the weekends. I've tried all
>> > three of the local small town ISPs, which have a nasty habit of
>> > crashing on friday nite, and not coming back online til monday
>> > morning.
>>
>> Of course it's radio. You'll find that if you aren't radiating a signal,
>> there's no signal and it's not radio. Otherwise, it's radio. And that
>> means licensing and all the rest.
>>
>> And there's a good reason wifi is higher in frequency. Because the
>> bandwidth is there, to allow for multiple signals. Likewise, the shorter
>> range means losts of points can reuse the same frequency, because the
>> range
>> is quite limited. And of course, the higher the bandwidth of data, the
>> more radio space it uses.
>>
>> Move to a lower frequency, and you'll have less chance to control the
>> signal.
>> You may find there's too much interference to other users. There may not
>> be enough radio bandwidth for everyone who wants it.
>>
>> That you don't realize this would be radio is a good indication, like
>> someone
>> else suggests, that there is no solution for you because you don't have
>> the grounding to go anywhere with it.
> The whole reason there's a problem is that there aint that many users.
> If there was, DSL would be here. If you drive from Little Rock north
> thru the Ozarks up US 65 twards Springfield MO, most of the time you
> can use your cell phone. But get 20 miles east or west of that string
> of transponders, and its dead even if you are on a mountain, never
> mind behind a ridgeline, much less down in a creek bottom.
>
You already answered your question, Christian radio (and TV stations) can be
found throughout your part of the Bible belt. Sadly, these promoters still
don't "get the Internet and rural access" (part of this is due to alignment
'of some' that technology is bad)
IF they did -- you would not have an Internet access problem.

```
From 5903484885135717114
X-Google-Thread: fc2a5,2bfec92201df58ad
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!news.highwinds-
media.com!newspeer1-win.ntli.net!newsfe6-win.ntli.net.POSTED!53ab2750!not-for-mail
From: "Russell King" <rusking@tesco.net>
Newsgroups: rec.radio.amateur.homebrew
References: <iQRKh.7994$_v3.5167@newsfe1-gui.ntli.net> <dEtyHxQe7$
+FFA8X@ifwtech.co.uk>
Subject: Re: Aldi 720 watt 230v AC/12v portable genrator.
Lines: 55
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <n7VKh.10218$NK3.7072@newsfe6-win.ntli.net>
Date: Sat, 17 Mar 2007 16:58:59 GMT
NNTP-Posting-Host: 80.2.197.219
X-Complaints-To: http://www.ntlworld.com/netreport
X-Trace: newsfe6-win.ntli.net 1174150739 80.2.197.219 (Sat, 17 Mar 2007 16:58:59
GMT)
NNTP-Posting-Date: Sat, 17 Mar 2007 16:58:59 GMT
Organization: ntl Cablemodem News Service
Xref: g2news1.google.com rec.radio.amateur.homebrew:12676

Thanks for the warning.
I'd forgotten that possible problem.

Russ

"Ian White GM3SEK" <gm3sek@ifwtech.co.uk> wrote in message
news:dEtyHxQe7$+FFA8X@ifwtech.co.uk...
> Russell King wrote:
>>Can I mention? -
>>
>>If any of you want to go /P
>>Aldi is selling a generator for �50 tomorrow.
>>
>>Russ
>>
>>------------------------------------
>>
>>I quote-
>>
>>"This smooth running suitcase type generator offers a reliable power
```

```
>>source
>>in inaccessible areas.
>>It is ideal for any number of uses including power tools, lighting,
>>camping
>>and other outdoor activities."
>>
>>"Maximum output: 720 watts
>>Minimum output: 650 watts
>>2HP
>>Fuel tank capacity 7.5 litres
>>Fuel type: 50:1 petrol/oil mix
>>Speed: 3,000rpm
>>Starting system: recoil (electronic ignition)
>>Alternator: brushless self-exciting
>>Overload circuit breakers: 1 � 230V and 1 � 12V DC
>>AC power output: 1 � 230V socket
>>DC power output: 12V battery charging
>>Charging lead and clips included
>>Noise: 62dBA at 7 metres, LWA 85
>>Turbo frame mounted and supplied with carry handle
>>Front reading voltmeter
>>Weight 21.7kg"
>
> I have a similar small generator, which is very handy for running power
> tools such as an electric drill or an angle-grinder... but switch-mode
> mains power supplies do NOT seem to like the waveform if they are the only
> load connected.
>
>
> --
>
> 73 from Ian GM3SEK         'In Practice' columnist for RadCom (RSGB)
> http://www.ifwtech.co.uk/g3sek




From -6276198841314430632
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-
sjc-10!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Chris Jones <lugnut808@nospam.yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
Date: Sat, 17 Mar 2007 17:54:08 +0000
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12voapbijp1dn41@corp.supernews.com>
References: <12vl7d0bq4bsu95@corp.supernews.com>
<12vmhneth9i4i68@corp.supernews.com> <12vmkcurnm7vj15@corp.supernews.com>
<12vmmacci8q7ae9@corp.supernews.com> <12vmnekev71hq27@corp.supernews.com>
User-Agent: KNode/0.7.7
```

```
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Complaints-To: abuse@supernews.com
Lines: 180
Xref: g2news1.google.com rec.radio.amateur.homebrew:12677

Dave wrote:

>
> "Chris Jones" <lugnut808@nospam.yahoo.com> wrote in message
> news:12vmmacci8q7ae9@corp.supernews.com...
>> Dave wrote:
>>
>>>
>>> "Chris Jones" <lugnut808@nospam.yahoo.com> wrote in message
>>> news:12vmhneth9i4i68@corp.supernews.com...
>>>> Dave wrote:
>>>>
>>>>> I saw somewhere that you could use an NE-2 bulb between the antenna
>>>>> "hot" lead and ground as a static discharge device for a receiver, but
>>>>> can't find
>>>>> an NE-2 and don't know anything about neon bulbs.  Anybody know if a
>>>>> standard neon bulb rated at 125 VAC could be used in this manner?  Or
>>>>> how I
>>>>> could test it?  I'm thinking about charging up a 50V electrolytic
>>>>> capacitor
>>>>> and hitting the bulb with that, to see if it discharges the cap.  I
>>>>> have
>>>>> a .22uF 630V mylar cap between the antenna and the input to the tuner
>>>>> because the 35V disc I had there got blown, so I know that static can
>>>>> be
>>>>> a
>>>>> problem with my setup even though it is grounded at two points.
>>>>> Would welcome any ideas anyone has on how to make this work...
>>>>>
>>>>> Thanks,
>>>>>
>>>>> Dave
>>>>
>>>> Your "standard neon bulb rated at 125 VAC" probably contains a series
>>>> resistor of maybe 100kOhms, and so will be not much use for protecting
>>>> anything, because any current would develop too much voltage across the
>>>> series resistor.  If you open it up and remove the resistor then it
>>>> will be
>>>> able to shunt larger currents, though it still may not be ideal for
>>>> protecting receivers. (The main advantage of the neon as a protection
>>>> device is very low capacitance which could be important on the higher
>>>> frequency bands, but another advantage would be that it would introduce
>>>> practically no intermodulation even in very strong signal conditions,
>>>> but
>>>> the breakdown voltage is probably so high that it may not protect
>>>> solid -
```

>>>> state receivers very well, as someone else already mentioned. You can
>>>> buy a ceramic cased gas discharge surge arrestor, they are popular for
>>>> telephone circuits. e.g.:
>>>> http://www.epcos.com/inf/100/ds/ec350xx0810.pdf
>>>>)
>>>>
>>>> You can probably make the bare neon bulb flicker by charging up
>>>> something
>>>> with static electricity (e.g. rub a balloon on your head or on a
>>>> jumper) and then hold this near the bulb so you can hear crackling.
>>>>
>>>> Chris
>>>
>>> Hey Chris,
>>>
>>> Thanks for the input. I am wondering why a neon bulb would include a
>>> 100K
>>> resistor... To maybe lessen the current being driven through the bulb?
>>> I'm
>>> going to have to check that out. Still, I am thinking that a couple of
>>> back-to-back diodes each with a 100K resistor in series would probably
>>> do
>>> what I want. Going to try my hand at building a test-bed and give it a
>>> shot. Will check out the gas discdharge surge arrestor though. Sounds
>>> much simpler, and likely more reliable.
>>>
>>> Appreciate your feeback.
>>>
>>> Dave
>>
>> I think that the diodes with resistors in series will probably not be
>> ideal.
>>
>
> I was intendending to connect the diodes in parallel, such as you describe
> below. Sorry for the lack of clarity...
>
>
>> If you want to just discharge small steady currents of static electricity
>> being picked up by your antenna then all you need is a 100k (or 10k)
>> resistor from the antenna to ground.
>>
>> If you want to protect against voltage spikes (e.g. caused by distant
>> lightning), (practically nothing will stop direct lightning) then your
>> diodes, connected in parallel, and one pointing in each direction, will
>> offer some protection, but in that case you must leave out the series
>> resistors because the series resistors will stop the diodes from
>> performing
>> any useful function.
>
> Why would the resistors disable the diodes? I expected they would merely
> limit the current through the diodes...

Yes it will limit the current through the diodes. That is the problem: the current that is not able to flow through the diodes will flow through your RX instead. It is better to remove the resistors in series with the diodes, since the current will do less harm (or less expensive harm) if it flows in the diodes instead of your RX.

```
>
>>If you are likely to experience strong radio signals
>> that could produce more than 0.2V on your antenna (and I would guess that
>> the answer is likely to be yes), then maybe the diodes will introduce
>> intermodulation (a form of interference) into your signal.  In this case,
>> a
>> number of diodes in series, in each direction, will allow larger RF
>> signals
>> to pass without excessive distortion.
>>
>>   \|/
>>    |  Antenna
>>    |
>>    *-----\/\/\/\------.  100k resistor
>>    |                  |
>>    *--|>|--|>|--|>|---*  3x diodes, one direction
>>    |                  |
>>    *---|<|--|<|--|<|--*  3x diodes, other direction
>>    |                  |
>>    '--||--To Rx      ___ Earth
>>      Cap              _
>>                       .
>>
>> For very high frequencies, small diodes such as 1N4148 may be needed,
>> though
>> for lower frequencies you may be able to get away with using larger, more
>> robust diodes.  At higher frequencies, big diodes may have too much
>> capacitance.
>
> I am working in the HF region, 2-30 MHz.
>
>>
>> This won't give all that much protection against powerful surges, so if
>> your
>> radio is especially valuable then a commercial protection device might be
>> a
>> good idea, and in any case unplugging the antenna when not in use would
>> be sensible.
>
> Oh yes, I do unplug it when not in use.  Definetly.
>
>>
>> Instead of the above circuit using the diodes in parallel, you could also
>> try using a pair of zener diodes in series, one pointing in each
>> direction.
>>
>
```

> I was thinking about Zener diodes, and trying to figure how they might be
> applied.

```
   \|/
    |  Antenna
    |
    *-----\/\/\/\------.  100k resistor
    |                  |
    |    /       /     |
    *--|>|-------|<|---*  Two Zeners, in series, opposite directions
    |    /       /     |
    |                  |
    '--||--To Rx      ___ Earth
      Cap              _
                       .
```

> My only hesitation there is the power dissipation capabilities
> of Zeners, compared to standard diodes.

You can get very high pulse power rated Zeners, designed for clamping pulses. They do not call them Zeners though, they call them something different (TVS? Transzorb?) I think these may have too much capacitance for 30MHz work.
http://www.vishay.com/diodes/protection-tvs-esd/trans-zorb/

Chris

```
From -693478199643261364
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!b75g2000hsg.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
Date: 17 Mar 2007 11:45:10 -0700
Organization: http://groups.google.com
Lines: 51
Message-ID: <1174157110.155659.223320@b75g2000hsg.googlegroups.com>
References: <12vl7d0bq4bsu95@corp.supernews.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1174157111 23441 127.0.0.1 (17 Mar 2007 18:45:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 17 Mar 2007 18:45:11 +0000 (UTC)
In-Reply-To: <12vl7d0bq4bsu95@corp.supernews.com>
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-tc02.proxy.aol.com[CFC8710A] (Prism/1.1.9), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: b75g2000hsg.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com rec.radio.amateur.homebrew:12678

On Mar 16, 5:37=EF=BF=BDam, "Dave" <db5...@hotmail.com> wrote:
> I saw somewhere that you could use an NE-2 bulb between the antenna "hot"
> lead and ground as a static discharge device for a receiver, but can't fi=
nd
> an NE-2 and don't know anything about neon bulbs. =A0Anybody know if a
> standard neon bulb rated at 125 VAC could be used in this manner? =A0Or h=
ow I
> could test it? =A0I'm thinking about charging up a 50V electrolytic capac=
itor
> and hitting the bulb with that, to see if it discharges the cap. =A0I hav=
e =A0a
> .22uF 630V mylar cap between the antenna and the input to the tuner becau=
se
> the 35V disc I had there got blown, so I know that static can be a problem
> with my setup even though it is grounded at two points.
> Would welcome any ideas anyone has on how to make this work...

   Back in the pre-history of most folks here (like 1940), the old
   ARC-5 Command Set Receivers for HF had little neon bulbs
   connected in parallel to the high-impedance antenna input.
   Being IN aircraft that naturally developed some static
   electricity charges on their wire antennas, the bulbs' kept
   the static charges from accumulating beyond the (approx)
   70 volt bulb breakdown.  It was a rudimentary noise
   reduction scheme back then.

   For receiving or transmitting, a simple 1:1 (or any other
   ratio) balun will both DC-ground the antenna and offer
   DC isolation between antenna and feedline.  Any static
   that tries to accumulate on the antenna is quickly
   drained away by the DC path to ground.

   A 1K to 10K half- to 2-watt resistor at a receiver antenna
   input shunted across it will serve to drain away static
   electricity charges without seriously changing the antenna
   impedance.  For a balanced antenna input (like 300 Ohm
   line common with TV and FM BC receivers), just use two
   of them with the common point to ground.

   Static electricity build-up is common on insulated long-
   wire antennas in locations with lots of thunderstorm
   activity (where I grew up in Illinois, for example).  By
   itself it could, possibly, pose a danger (certainly a very
```

rude shock). A continuous drain-away device such as
a balun (preferred) or a resistor will lessen that.

Above all - especially in thunderstorm locations - USE A
LIGHTNING ARRESTER ON ANTENNAS!

73, Len AF6AY

```
From 4147282813005139510
X-Google-Thread: fc2a5,962cd6a2eca956d0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!p15g2000hsd.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My Introductory Post..
Date: 17 Mar 2007 12:25:41 -0700
Organization: http://groups.google.com
Lines: 136
Message-ID: <1174159541.036668.149610@p15g2000hsd.googlegroups.com>
References: <1174105575.470841.192420@l77g2000hsb.googlegroups.com>
   <1174111984.355611.295310@n76g2000hsh.googlegroups.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1174159542 29352 127.0.0.1 (17 Mar 2007 19:25:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 17 Mar 2007 19:25:42 +0000 (UTC)
In-Reply-To: <1174111984.355611.295310@n76g2000hsh.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-tc06.proxy.aol.com[CFC8711E] (Prism/1.1.9), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: p15g2000hsd.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com rec.radio.amateur.homebrew:12679
```

On Mar 16, 10:13=EF=BF=BDpm, "Tim Shoppa" <sho...@trailing-edge.com> wrote:

```
> gbowne1 wrote:
> > =A0 I'm interested in homebrewing. =A0I've been a SWL since 1986, and I=
'm
> > a newcomer to amateur radio, although I have been interested in that
> > since then too, and will be getting my ticket during the course of the
> > following year. =A0I now own a Yaesu FT-757GX which I use as my HF Gen
> > coverage receiver so I can still listen to SW, and practice code and
> > then get my ticket, while working on building the rig and slowly
```

> > learning still. =A0Mind you, I also have a Fluke 8050A DMM too that I
> > bought last year which will help me. (Still learning how to use it)
>
> > =A0 In an effort to help me learn more about electronics than I already
> > know, not a whole lot at this point, I am going to build something
> > with which I can use once I finally get my ticket.
>
> > =A0 In search for helpful documentation, I found a book by Randy L.
> > Henderson, titled
> > "Build Your Own Intelligent Amateur Radio Transceiver". =A0While now 10
> > years old, the book has many outdated components, and other errors in
> > the book. =A0While a good design idea, I think it could be improved on
> > to 2006/2007 standards in many ways.. which I will attempt to do. =A0The
> > rig is based on the 80C31 / 8051 family with a 27C64 EPROM in with a
> > 7805 regulator, and 74LS373 on the computer board. =A0The computer board
> > also listed as having: a 1N4001, a 1N4148, a 2N2222A, a 2N2907, and
> > lastly a SK3444. =A0It also featured a 100,000uF memory backup capacitor
> > and a 6.2v Zener.
>
> > =A0 My basic dimensions for the chassis are 16.1875" W x 6.1875" H x 15"
> > D.. so that will be the working envelope of whatever design I end up
> > with. =A0That's a pretty big space, and I like having space to work
> > inside.
>
> > =A0 Well, anyhow this is my introductory post, and I'd love to hear your
> > comments, suggestions, etc.
>
> My catchphrase of advice: "If you don't know how to do it, you don't
> know how to do it with a computer".
>
> I don't know much about the book in question and the radio it builds,
> but the parts you name are all computer parts, not radio parts. My gut
> advice would be that you not build a computer but a radio :-)

Tim, I don't want to sound demeaning about a "clever" response,
but, for the last 30 years or so, "radios" ARE using more and
more "computer" parts. The main frequency-determining
components of modern receivers, transmitters, transceivers in
amateur radio ARE "computer sub-systems." PLLs and DDSs
ARE "digital" and the last part of the "IF" in the newer receivers
ARE "digital." So is voice-frequency shaping and compression-
expansion and noise reduction.

"Begin with a simple regenerative receiver?" I say a resounding
NO to that. All that will be "learned" is assembly and how to
fuss around with trying to keep it from becoming a transmitter.
NOT a good place to start to "learn" despite the political-
correctness and "all the old-timers say that." Nonsense. I'm
one of those old-timers and "been there, done that, got lots
of T-shirts" in many ways in radio-electronics.

To "begin learning" I would suggest getting an ancient TUBE-
type "All American Five" AM BC receiver. There must be tens

or hundreds of thousands of those things sitting around unused in attics, basements, etc. It is a basic superheterodyne receiver with simple power supply, a local oscillator (think of it as a "VFO-to-be"), a Mixer, a gain-controlled IF amplifier, a diode detector, and a two-stage audio (low) power amplifier. All the basic building blocks in there on one chassis.

EXAMINE each stage and its interrelationships, play with changing things as clues come into mind from textbook explanations. The "signal sources" are plentiful and no signal generator is needed until the examination gets very detailed. Make a mistake fussing around with one? Not a serious problem. They can be had for nothing from neighbors or family that accumulates old stuff...for nothing usually. Get two or three if possible...old parts for them are getting scarce.

Need progress towards a transmitter? The Hartley oscillator in an All-American Five is an introduction to oscillators and modern "computer age" oscilloscopes can monitor the waveforms in it. One heckuva lot better than, for example, I had it over 50 years ago. Add a simple, low-power Class C tube amplifier (parts out of a second AM BC receiver) and one has the basic MOPA transmitter (Master Oscillator Power Amplifier). From there it is messing about with crystal controlled oscillators and various keying schemes for OOK CW and old-timer's beloved morse code. :-)

One of the VERY LAST things a beginner should avoid is to jump in with plans to build some kind of state-of-the-art digital transceiver. NOT from it being "made of computer parts" but because what happens INSIDE the "digital" devices is so enormously COMPLICATED that it can present a very steep cliff in a learning curve about "radio." Unless one has a very good theoretical grounding in MANY DIFFERENT circuits and schemes that have led up to such "digital radio" designs, the best way (to me) is to start with a KIT and learn assembling the parts. The design has already been worked out. Those few who bother going into WHY it woks can do so with something that works after assembly.

Doing what "everyone else" did some 30 to 50 years ago sounds all nice and homey but is NOT "the best" way to approach radio in this new millennium. WE are IN the "digital age" and have been for decades...but the analog circuits are still blended in. We have to know how they all interface and the characteristics of all to make a whole system work.

73, Len AF6AY

LenAnderson@ieee.org

>
> My feeling is that if you want to do something that is a mix of analog
> and digital to do something interesting in radio, go through the SDR
> ("Software-Defined Radio") route. Google "software defined radio"
> along with ham to see some links to stuff that's been published in QEX
> and other sources the past couple of years.
>
> But I'd encourage you to also build some really, really simple regen
> receivers before doing anything that has a computer in it. The
> learning curve will be so much less steep, and you'll learn so much
> more about radio (as opposed to computers) by doing so.
>
> More generically, also consider investing in the ARRL Handbook and
> Horowitz and Hill's _The Art of Electronics_. Neither are abstract
> academic texts, they are all about hands-on stuff. Together they will
> cost more than a good used ham rig, though they will pay off much more
> in the long run!
>
> Tim.

From 3416380968060440380
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.glorb.com!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe13.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <12vl7d0bq4bsu95@corp.supernews.com> <12vmhneth9i4i68@corp.supernews.com> <12vmkcurnm7vj15@corp.supernews.com> <12vmmacci8q7ae9@corp.supernews.com> <12vmnekev71hq27@corp.supernews.com>
Subject: Re: ? on neon light as static discharge device
Lines: 28
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <ysXKh.17138$BK1.731@newsfe13.lga>
Date: Sat, 17 Mar 2007 15:37:57 -0400
NNTP-Posting-Host: 68.0.230.54
X-Complaints-To: admin@cox.net
X-Trace: newsfe13.lga 1174160286 68.0.230.54 (Sat, 17 Mar 2007 12:38:06 MST)
NNTP-Posting-Date: Sat, 17 Mar 2007 12:38:06 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:12680

Dave

A Zener acts like a regular diode in one direction, the Zener is actually a back biased diode that is run into it's reverse breakdown point (over simplification). You could use two Zeners in SERIES to clamp an AC voltage.

I think you should start by giving us some parameters.

1. What kind of receiver are you trying to protect; tube or solid state?

2. Are there any transmitters nearby (ham or CB)?

3. What kind of antenna (long wire, dipole, etc.)

4. Urban or rural environment, nearby AM broadcast facilities?

Some other things that you might consider would be adding a sacrificial fuse in line with the protection, say when the diodes or gas arrestor clamp you could have a 47 pilot lamp wired in series with the antenna to limit the current to diodes.

Pete

From 8129531187937545131
X-Google-Thread: fc2a5,2bfec92201df58ad
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.germany.com!newsfeed01.sul.t-online.de!t-online.de!news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!newsfe4-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Russell King" <rusking@tesco.net>
Newsgroups: rec.radio.amateur.homebrew
References: <iQRKh.7994$_v3.5167@newsfe1-gui.ntli.net> <dEtyHxQe7$+FFA8X@ifwtech.co.uk> <n7VKh.10218$NK3.7072@newsfe6-win.ntli.net>
Subject: Re: Aldi 720 watt 230v AC/12v portable genrator.
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
x-mimeole: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <OrZKh.11591$7l1.276@newsfe4-gui.ntli.net>
Date: Sat, 17 Mar 2007 21:53:50 GMT
NNTP-Posting-Host: 80.2.204.240
X-Complaints-To: http://www.ntlworld.com/netreport
X-Trace: newsfe4-gui.ntli.net 1174168430 80.2.204.240 (Sat, 17 Mar 2007 21:53:50 GMT)

NNTP-Posting-Date: Sat, 17 Mar 2007 21:53:50 GMT
Organization: ntl Cablemodem News Service
Xref: g2news1.google.com rec.radio.amateur.homebrew:12681

Someone just suggested similar at B&Q !

Russ

"Russell King" <rusking@tesco.net> wrote in message
news:n7VKh.10218$NK3.7072@newsfe6-win.ntli.net...
> Thanks for the warning.
> I'd forgotten that possible problem.
>
> Russ
>
> "Ian White GM3SEK" <gm3sek@ifwtech.co.uk> wrote in message
> news:dEtyHxQe7$+FFA8X@ifwtech.co.uk...

From -3172188397117665818
X-Google-Thread: fc2a5,91bd3f5a87cb5a6e,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newshub.stanford.edu!sn-xt-sjc-03!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@Yahoo.Com>
Newsgroups: rec.radio.amateur.homebrew
Subject: What'a a rotostub tuner do?
Date: Sat, 17 Mar 2007 15:33:36 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vor9l50takt5c@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 14
Xref: g2news1.google.com rec.radio.amateur.homebrew:12682

I came across this item:
http://cgi.ebay.com/06-02474-Rodostub-Tuner-DC-12GHz-N-Male-Female-Stub-RF_W0QQitemZ180020464744QQcategoryZ1504QQssPageNameZWDVWQQrdZ1QQcmdZViewItem?hash=item180020464744
while looking for double-slug tuners (anyway have one they want to sell? :-)) and it's not at all clear to me what it does. Does it just provide a few degrees of "line stretching" as you rotate it to provide fine tuning of a match? Or something else?

I did some Googling by Teledyne is notoroius difficult to get useful information from!

Thanks,
---Joel

From -7823581718529331260
X-Google-Thread: fc2a5,c93dc1ba9d51bfa0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 17 Mar 2007 19:13:33 -0500
From: Kenneth Grimm <kdgrimm@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need help identifying CSdc diode block
Date: Sat, 17 Mar 2007 20:13:33 -0400
Organization: BAMA
Message-ID: <qu0pv21ellv9o9rerbvtn40cu0jsr2fvo1@4ax.com>
References: <nfilv2ldqoku9fhlp8mhmbpihnt3r9uk6u@4ax.com>
<t4SdnZEq7P3w1WbYRVnyiAA@pipex.net>
X-Newsreader: Forte Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 54
NNTP-Posting-Host: 24.127.5.202
X-Trace: sv3-
AG9gl6vI0vEY5REKRjESxmoVcCprBawOFIewF9SyLrO4mrqq63aKXD6oKpWZr0gGh7ojZ010osenwa/!
1UBn5cxVhvVQ7b0lx4tmw/zadBR8ZpAXs7wVQu+sXTmh1yDCcoTFuRrtKLxML416kJ65xTr3TDqE!
9swD99E51zSMywNIqxVL6xBiUw==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12683

On Sat, 17 Mar 2007 01:47:31 +0000, Highland Ham
<abcgm0csz.kn6whxyz@dsl.pipex.com> wrote:

>Kenneth Grimm wrote:
>> I've got a set of four epoxy block diodes that I would like to use in
>> my next home brew amplifier power supply. The problem is that the
>> company that made them, CSdc (Conditioning Semiconductor Devices
>> Corporation) was bought up back in the 80's and I can't find anything
>> on the web about the value of the devices. I would sure like to know
>> what C67-6225A by CSdc is. They are 1 inch square by 5.5 inches long
>> black epoxy blocks. Any help would be greatly appreciated.
>============================

>Your expoxy embedded diode block is highly likely containing some 1000 V
>PIV silicon diodes wired in series.
>Suggest ,with a low voltage power supply, you allow 20 - 30 mA
>(forward bias) current to flow through the block.
>With the knowledge that the voltage across each silicon diode is approx
> 0.7 V you measure the voltage across the block ,and then can
>determine the number of diodes and hence the overall PIV.   The max AC
>rms voltage to be rectified should be less than 35 percent of that
>PIV, being 70 percent of half the PIV
>
>The max current the block can accept can be ESTIMATED in 2 ways.
>Allow a DC current to to flow such that after a while the block is
>'hand warm'   , alternatively the current at which the voltage across
>the block has increased by 30 percent compared with the voltage across
>the block at a current of 20 -30 mA
>
>
>I agree the above methods do not constitute a very scientific approach
>,yet they provide useful info for practical purposes.
>
>I have done the same with some 'mystery' HV diodes and so far ....so good.
>
>Suggest you test/verify the above method(s) with a HV diode from a
>microwave oven with a known capacity .If not known ,the HV voltage of
>the relevant transformer can be calculated (if not measured directly)
>by connecting the primary winding to a low voltage (10 -15 V) and
>measuring the voltage across the secondary.
>
>Frank   GM0CSZ / KN6WH

Thanks for some great idea. I don't have access to a hi-pot and these
approaches make a lot of sense. I have a smaller epoxy diode that I
know the specs for. I'll start with it and go from there. Thanks
again.
73,

Ken K4XL
k4xl@arrl.net

*** BoatAnchor Manual Archive ***
On the web at http://bama.sbc.edu and http://bama.edebris.com
FTP site info: bama.sbc.edu login: anonymous p/w: youremailadr

From -6648570609242071269
X-Google-Thread: fc2a5,962cd6a2eca956d0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!p15g2000hsd.googlegroups.com!not-for-mail
From: "gbowne1" <gbowne1@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My Introductory Post..

```
Date: 17 Mar 2007 18:03:15 -0700
Organization: http://groups.google.com
Lines: 41
Message-ID: <1174179795.686941.166560@p15g2000hsd.googlegroups.com>
References: <1174105575.470841.192420@l77g2000hsb.googlegroups.com>
   <1174111984.355611.295310@n76g2000hsh.googlegroups.com>
   <1174159541.036668.149610@p15g2000hsd.googlegroups.com>
NNTP-Posting-Host: 64.40.57.196
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174179802 13827 127.0.0.1 (18 Mar 2007 01:03:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 18 Mar 2007 01:03:22 +0000 (UTC)
In-Reply-To: <1174159541.036668.149610@p15g2000hsd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p15g2000hsd.googlegroups.com; posting-host=64.40.57.196;
   posting-account=8BAS0Q0AAAAnJPh6jhjhjuvPq1nRIH_s
Xref: g2news1.google.com rec.radio.amateur.homebrew:12684
```

Ok, well, with those thoughts in consideration.. I'm still a bit lost on where to start.   I know a local guy who has a SDR-1000 and I read his blog on blogspot. Very interesting. I did all the "googling" on it with a program called WebFerret. There is also GNUradio, and a few other projects going on in SDR it seems.

While tubes are cool, and I am sure very nice low tube count receivers/transmitters/transceivers could be built as they did ages ago.

Yes, I agree we live in a digital age.. and there are still many analog circuits around. Speaking of which, from just having purchased a copy of the 1985 ARRL Handbook today and having glanced through it. (I like old books to begin with).

Quote: "I don't know much about the book in question and the radio it builds,
but the parts you name are all computer parts, not radio parts. My gut
advice would be that you not build a computer but a radio :-)"

Well, thats what I intend to do. Well, half and half. Someone has to start somewhere.

I just wish I could rember everything my grandfather tried to teach me at a very young age.
For reference, I'm just about to turn 30. And, I started getting into this sort of thing around 1986.

As someone somewheres else suggested I have limited information, and well, I just need to fill in the gaps.. not nessisarily start all over. I barely know what to do with the probes of a DMM.. in my case a Fluke 8050A..

Well, yes I probably could put together a kit and learn that way. In other words, "I'm just a mentor short of a college thesis."

Oh yea, and I won't attempt to become a RF Engineer / Designer, well.. just yet anyhow. LoL.

Greg

From 6448431438506540127
X-Google-Thread: fc2a5,962cd6a2eca956d0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!o5g2000hsb.googlegroups.com!not-for-mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My Introductory Post..
Date: 17 Mar 2007 18:10:32 -0700
Organization: http://groups.google.com
Lines: 63
Message-ID: <1174180232.515613.54720@o5g2000hsb.googlegroups.com>
References: <1174105575.470841.192420@l77g2000hsb.googlegroups.com>
   <1174111984.355611.295310@n76g2000hsh.googlegroups.com>
   <1174159541.036668.149610@p15g2000hsd.googlegroups.com>
NNTP-Posting-Host: 63.73.218.130
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174180234 14898 127.0.0.1 (18 Mar 2007 01:10:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 18 Mar 2007 01:10:34 +0000 (UTC)
In-Reply-To: <1174159541.036668.149610@p15g2000hsd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Links (1.00pre14; Linux 2.6.13.2 i686; 80x25),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o5g2000hsb.googlegroups.com; posting-host=63.73.218.130;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com rec.radio.amateur.homebrew:12685

LenAnderson@ieee.org wrote:

> Tim, I don't want to sound demeaning about a "clever" response,

You might think I was trying to be cute or clever, but I really feel the way that I wrote :-).

> but, for the last 30 years or so, "radios" ARE using more and
> more "computer" parts.

And I think that's fine. I personally find those parts as detracting from what is interesting about homebrewing, up until you get to say a Software-Defined Radio, or maybe some hamshack accessories that let you use a computer to do clever things with your rigs.

I do feel it's pointless to build computerized gadgets when perhaps an already existing desktop PC can do the same job. Most digital modes beyond CW are really used much more effectively with a CRT than with little microcontroller-based LED displays etc. Little gadgets that turn a desktop or laptop computer from a blank screen into something that usefully interfaces to a radio are plentiful in the ham magazines and are fine projects.

> The main frequency-determining
> components of modern receivers, transmitters, transceivers in
> amateur radio ARE "computer sub-systems." PLLs and DDSs
> ARE "digital" and the last part of the "IF" in the newer receivers
> ARE "digital." So is voice-frequency shaping and compression-
> expansion and noise reduction.

Again, I tried to encourage him to go into SDR's as the cutting-edge of homebrewing.

> "Begin with a simple regenerative receiver?" I say a resounding
> NO to that.

You do have a point, the OP had a pretty kick-ass all-mode SW receiver already. Perhaps a simple rock-bound CW transmitter that could be used once he got his ticket would be a much more interesting project.

But you do correctly deduce that my first ham-band receiver was a regen built by me in 5th grade :-).

> EXAMINE each stage and its interrelationships, play with
> changing things as clues come into mind from textbook
> explanations. The "signal sources" ar
> One of the VERY LAST things a beginner should avoid is to
> jump in with plans to build some kind of state-of-the-art
> digital transceiver. NOT from it being "made of computer parts"
> but because what happens INSIDE the "digital" devices is so
> enormously COMPLICATED that it can present a very steep
> cliff in a learning curve about "radio."

Considering that a complete working multimode multi-band (but used) HF ham rig can be bought for not much more than what the ARRL handbook costs new, homebrewing a complete rig is a non-starter for even those who've been doing simpler projects for decades!

So, thinking it over again, I'd like to advise the OP to find a simple CW QRP transmitter project that can be used with his existing receiver after he gets his ticket.

Tim.

```
From 3784991037730943047
X-Google-Thread: fc2a5,962cd6a2eca956d0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!p15g2000hsd.googlegroups.com!not-for-
mail
From: N2EY@AOL.COM
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My Introductory Post..
Date: 17 Mar 2007 21:44:40 -0700
Organization: http://groups.google.com
Lines: 124
Message-ID: <1174193080.335196.220190@p15g2000hsd.googlegroups.com>
References: <1174105575.470841.192420@l77g2000hsb.googlegroups.com>
NNTP-Posting-Host: 64.12.117.15
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1174193081 17631 127.0.0.1 (18 Mar 2007 04:44:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 18 Mar 2007 04:44:41 +0000 (UTC)
In-Reply-To: <1174105575.470841.192420@l77g2000hsb.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 Turboweb [mtc-tf042 8.4.1], HTTP/1.1 cache-mtc-
ae11.proxy.aol.com[400C750F] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: p15g2000hsd.googlegroups.com; posting-host=64.12.117.15;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news1.google.com rec.radio.amateur.homebrew:12686

On Mar 16, 11:26=EF=BF=BDpm, "gbowne1" <gbow...@yahoo.com> wrote:
> Hello! :-)
>
> =A0 I'm interested in homebrewing. =A0I've been a SWL since 1986, and I'm
> a newcomer to amateur radio, although I have been interested in that
> since then too, and will be getting my ticket during the course of the
> following year.

Excellent!

>=A0I now own a Yaesu FT-757GX which I use as my HF Gen
> coverage receiver so I can still listen to SW, and practice code and
> then get my ticket, while working on building the rig and slowly
> learning still. =A0Mind you, I also have a Fluke 8050A DMM too that I
> bought last year which will help me. (Still learning how to use it)
>
A good start.

> =A0 In an effort to help me learn more about electronics than I already
```

> know, not a whole lot at this point, I am going to build something
> with which I can use once I finally get my ticket.
>
> =A0 In search for helpful documentation, I found a book by Randy L.
> Henderson, titled
> "Build Your Own Intelligent Amateur Radio Transceiver". =A0While now 10
> years old, the book has many outdated components, and other errors in
> the book. =A0While a good design idea, I think it could be improved on
> to 2006/2007 standards in many ways.. which I will attempt to do. =A0The
> rig is based on the 80C31 / 8051 family with a 27C64 EPROM in with a
> 7805 regulator, and 74LS373 on the computer board. =A0The computer board
> also listed as having: a 1N4001, a 1N4148, a 2N2222A, a 2N2907, and
> lastly a SK3444. =A0It also featured a 100,000uF memory backup capacitor
> and a 6.2v Zener.
>
> =A0 My basic dimensions for the chassis are 16.1875" W x 6.1875" H x 15"
> D.. so that will be the working envelope of whatever design I end up
> with. =A0That's a pretty big space, and I like having space to work
> inside.
>

IMHO:

>From what I gather, you don't have much experience with practical electronics. If I'm wrong about that, please correct me. Nothing wrong with inexperience, everyone starts out that way.

The main problem I see with something like the "Intelligent Transceiver" is that it is a very big thing to do as a first or even second project. Not that it can't be done, just that I cannot recommend it as the way to get started. It's just too big and complex for a beginner.

I recommend that you look around for a simple receiver or transceiver project to build. There are many designs on the web, and kits too. Most are single-band projects built around a handful of parts, yet capable of usable performance with a decent antenna. You can learn a lot from building one and getting it to work, and then move on to something more complex. In some cases ready-made PC boards are available, but you have to provide the parts and enclosure.

You will need some tools, test equipment, and a proper place to work. One of the advantages of kits is that the required tool kit is greatly reduced, but so is the amount of creativity and craft you put into the project.

Look around the internet and your Handbook for a simple receiver or transceiver project to build for a start. It doesn't have to use the latest technology in order to work and teach you many things about radio. Note too that many transceiver projects can be built as receivers by simply leaving the transmit components out until later.

Another poster here advised you to build a simple regenerative receiver. This is excellent advice, because a regen is about the simplest practical SW receiver you can build that will give useful results. It will also teach you a lot about construction technique and operating skill. It will also make you appreciate a superhet!

The advice to study an "All American Five" receiver, OTOH, is very bad, for a number of reasons:

1) You want to build, not take apart. In theory you could take an AA5 all apart and put it back together again, but that's not the same as building something new.

2) There is a good chance that if you can find an AA5, it will need to be fixed to make it work. While you can learn a lot that way, it's still not the same as building something new.

3) The end result of any such effort is going to be a basic receiver for AM broadcast. Not a transmitter or transceiver, and not a piece of amateur radio or SW equipment. If amateur radio/SW is your interest, it seems to me that your projects should be for amateur radio and SW, not AM BC.

4) AA5 receivers are of transformerless, "AC-DC" design. Usually one side of the AC line is directly connected to the chassis. If the plug is put in the socket one way, the chassis is connected to the neutral wire, but if it's plugged in the other way the chassis is hot-to-ground by the line voltage! Such receivers were almost always built in cabinets of insulating materials such as wood or plastic, and the chassis made inaccessible, because of the shock hazard. But in order to work on one, you want it out of the cabinet and powered up.

Working on one requires a lot of extra precautions to avoid getting a shock. Better to focus on transformer-operated equipment whose chassis can be directly grounded to minimize the shock hazard.

Tubes or transistors? They're both fun, and both have advantages and disadvantages. Solid state parts are generally more available new or new-old-stock (NOS), though.

Google my callsign to see some of my homebrew efforts.

And keep asking questions!

73 de Jim, N2EY

```
From 7168486616285381547
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!
xlned.com!feeder1.xlned.com!txtfeed2.tudelft.nl!tudelft.nl!txtfeed1.tudelft.nl!
feeder1.cambrium.nl!feed.tweaknews.nl!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-
ams-03!sn-ams!sn-feed-ams-02!sn-post-ams-01!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
Date: Sun, 18 Mar 2007 00:09:08 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vpibu1rngn3a6@corp.supernews.com>
References: <12vl7d0bq4bsu95@corp.supernews.com>
<12vmhneth9i4i68@corp.supernews.com> <12vmkcurnm7vj15@corp.supernews.com>
<12vmmacci8q7ae9@corp.supernews.com> <12vmnekev71hq27@corp.supernews.com>
<ysXKh.17138$BK1.731@newsfe13.lga>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 77
Xref: g2news1.google.com rec.radio.amateur.homebrew:12687


"Uncle Peter" <radioconnection@cox.net> wrote in message
news:ysXKh.17138$BK1.731@newsfe13.lga...
> Dave
>
> A Zener acts like a regular diode in one direction, the
> Zener is actually a back biased diode that is run into
> it's reverse breakdown point (over simplification). You
> could use two Zeners in SERIES to clamp an AC voltage.
>
> I think you should start by giving us some parameters.
>
> 1. What kind of receiver are you trying to protect; tube
> or solid state?
>
> 2.  Are there any transmitters nearby (ham or CB)?
>
> 3.  What kind of antenna (long wire, dipole, etc.)
>
> 4.  Urban or rural environment, nearby AM broadcast
> facilities?
>
> Some other things that you might consider would be
```

> adding a sacrificial fuse in line with the protection, say
> when the diodes or gas arrestor clamp you could have
> a 47 pilot lamp wired in series with the antenna to limit
> the current to diodes.
>
> Pete
>
>

Hello Pete,

Thank you for your reply, and for the questions. My RF amplifier (HF) is solid state, and there is a Ham transmitter two doors down on the same side or the street I live on (urban environment) but no other AM transmitters *that I know of* in the vicinity. I live on the industrial side of town however, and imagine that there probably are some for the various trucking companies etc. which operate within five or ten miles of my home. The antenna is a longwire, consisting of approximately 100' of four (insulated) parallel strands of #24 AWG copper wire running along the ridge-vent of my house. This feeds into another 60' or so of RG-59 coax to shield against noise from the A/C compressor on that side of the house. It is grounded both where it comes off the roof and again where it comes in my window with 10' copper-clad steel grounding rods driven into the moist earth. The RF amplifier is a home-brew version of the MFJ 1020-A, using an air-gap (I hope I have this right) transmitter style variable capacitor for tuning, and has a 630V .1uF capacitor salvaged from the guts of an old TV connecting the center conductor of the coax to this tuning capacitor. I do not know the internal composition of this .1uF capacitor, but assume (hate that word) it is compatible with RF applications since it came out of the RF circuitry of a TV. I used to have a .22uF 50V polyethylene capacitor in its place, but that got blown, alerting me to the possibility of static charges coming down the feedline. Since my antenna is a longwire on the roof of my house, and it does routinely get windy, I imagine static will be an ongoing threat.

You mention that two Zener diodes in series could be used to clamp an AC voltage. Could they be used to defend against static? I have two 5.6V Zeners rated at 5W, and would love to employ them in this endeavor. I also have a couple of standard diodes rated at 600 volts PIV and 1 amp. I was thinking of using these, reversed and in parallel with the neon bulb, to take any voltage over the .6 volt threshold of silicon PN devices to ground. Do you think they would do this if I put them between the center conductor of the coax and ground? I am thinking that the "normal" signal level coming from the antenna would probably be something on the order of a couple hundred microvolts, and would therefore not be enough to drive the diodes into conduction. Does this sound reasonable, or am I way off base here?

Thank you for your time and interest. I really have no idea what I am doing here, but I am trying to figure it out and plan as best I can.

Best regards,

Dave

From -1297312041226269818
X-Google-Thread: fc2a5,962cd6a2eca956d0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
From: Doug Smith <w9wi@invalid.nospam>
Subject: Re: My Introductory Post..
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.03.18.11.00.14.779199@invalid.nospam>
Newsgroups: rec.radio.amateur.homebrew
References: <1174105575.470841.192420@l77g2000hsb.googlegroups.com>
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X-Trace: newsread2.news.pas.earthlink.net 1174215150 4.153.71.114 (Sun, 18 Mar
2007 02:52:30 PST)
NNTP-Posting-Date: Sun, 18 Mar 2007 02:52:30 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:12688

On Fri, 16 Mar 2007 21:26:15 -0700, gbowne1 wrote:

> ...
>   In an effort to help me learn more about electronics than I already
> know, not a whole lot at this point, I am going to build something
> with which I can use once I finally get my ticket.

I would concur with those who suggest you're shooting a bit high for a first project(grin). Don't throw out that book - you'll be ready to build that project soon enough - but you should start with something a bit less ambitious. The "AA5" receiver idea strikes me as interesting but completely 100% irrelevant to modern electronics, both from the design standpoint and the implementation standpoint. Poking around an old transistor radio, on the other hand, might be worthwhile.

Firstly, do you have soldering experience? If not, I would suggest buying a bit of protoboard and a "grab bag" of electronic components for practice purposes. You wouldn't be looking to make any circuit that actually worked - just to develop the skills to reliably make good solder connections. The perfect design isn't going to work if the components aren't connected in the way the designer intended(grin) and solder joint problems can be VERY frustrating to troubleshoot. The ARRL Handbook has a section on soldering that includes pictures of proper joints.

(you really should have a copy of the Handbook)

After you're confident of your soldering ability (and I doubt it would take more than a day or two to get it down right) I would look at a modest kit as a starting point. Ten-Tec sells some direct-conversion single-band receiver kits. They actually do something (grin), (indeed they really do it pretty well) and are about the right size for a first construction project. There are other similar choices out there. A kit like this will also get you familiar with component identification.

When you're ready to start going after the transceiver project, do it in modular steps. Try to work in such a way that you can test each section after you complete it. For example, start with the receiver audio amplifier; it should hum when you touch the input, even if the entire remainder of the transceiver is missing. (i.e. you haven't built it yet!) That way, if something doesn't work (and it won't!) you don't have to search the entire radio for the problem; also, you'll get ego-boosting results sooner!

From 3055151677936447680
X-Google-Thread: fc2a5,55f22888ef4f5b,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l75g2000hse.googlegroups.com!not-for-mail
From: "vasile" <piclist9@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Magnetron as RF transciever
Date: 18 Mar 2007 10:40:11 -0700
Organization: http://groups.google.com
Lines: 16
Message-ID: <1174239611.534840.205810@l75g2000hse.googlegroups.com>
NNTP-Posting-Host: 83.103.129.180
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X-Complaints-To: groups-abuse@google.com
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User-Agent: G2/1.0
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Complaints-To: groups-abuse@google.com
Injection-Info: l75g2000hse.googlegroups.com; posting-host=83.103.129.180;
   posting-account=BwuUHAwAAACRmdRrnoWOjYONkQajeWhP
Xref: g2news1.google.com rec.radio.amateur.homebrew:12689

Hello all,

I'm manufacturing from a couple of years all sort of equipment for research (digestors, plasma generators, etc)using the microwave power field.
One of these is here: http://incdtim.netfirms.com/digestor_new.jpg

I was thinking I know everything about magnetrons. However some time
ago I've discovered a site where the magnetron was used as CW
transciever using a small power 12/4KV inverter.
Unfortunately I didn't saved those pages and now I would love to see
them again.
Does any of you know about what I'm talking about ?

thank you,
Vasile

From -9047110659426917981
X-Google-Thread: fc2a5,962cd6a2eca956d0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!e65g2000hsc.googlegroups.com!not-for-mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My Introductory Post..
Date: 18 Mar 2007 14:45:23 -0700
Organization: http://groups.google.com
Lines: 134
Message-ID: <1174254323.856381.237460@e65g2000hsc.googlegroups.com>
References: <1174105575.470841.192420@l77g2000hsb.googlegroups.com>
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X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-ntc-td12.proxy.aol.com[CFC871B9] (Prism/1.1.9), HTTP/1.1 cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: e65g2000hsc.googlegroups.com; posting-host=207.200.116.11;
posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com rec.radio.amateur.homebrew:12690

From: "Tim Shoppa" <sho...@trailing-edge.com> on 17 Mar 2007 18:10:32 -0700

>LenAnder...@ieee.org wrote:

>>   but, for the last 30 years or so, "radios" ARE using more and

>> more "computer" parts.
>
>And I think that's fine. I personally find those parts as detracting
>from what is interesting about homebrewing, up until you get to say a
>Software-Defined Radio, or maybe some hamshack accessories that let
>you use a computer to do clever things with your rigs.

To paraphrase from an old film, "we have a failure to
communicate?"

A PLL subsystem is essentially ALL digital with the exception
of the VCO itself. It uses "computer parts" and it can take
the place of a dozen or hundreds of quartz crystals, using only
one crystal as THE reference. All the parts are legacy and have
been so for at least two decades.

A DDS SOC (System On a Chip) can do the same, yet yield a much
finer frequency increment, still with quartz crystal stability
and control. It is all digital inside that SOC.

>I do feel it's pointless to build computerized gadgets when perhaps an
>already existing desktop PC can do the same job.

Why tie up a desktop PC to do things that can be done in a
small, dedicated assembly? A PIC microcontroller can be a
stand-alone frequency indicator...as witness to Neil Hecht's
fine products over on AADE. Or, how about a vector wattmeter
such as Larry Phipps' (N8LP) LP-100 unit that will also read
the complex impedance of the load? Or the Palstar ZM-30
antenna analyzer as a self-contained Z-R-X box to 30 MHz?
All enabled with "computer parts." All small, easy to apply
or portable with self-contained batteries.

> Most digital modes
>beyond CW are really used much more effectively with a CRT than with
>little microcontroller-based LED displays etc.

"Effective?" Using a desktop or laptop as an I/O device, and
the internal sound card as an extra digital processor and
A/D, saves BUILDING the equivalent. But, otherwise the PC
has only a larger viewing area and color display capability.

This is the HOMEBREW newsgroup and is about BUILDING at home.

I was trying to focus on the LEARNING aspect of getting
acquainted with the various stages of radios. I picked the
ordinary old table model radio as a representative of such
a LEARNING device for several reasons: There are thousands
of them sitting around in storage, unused, replaced by
newer BC receivers; the "All-American-Five" variety has
every basic stage in it...rectifier, mixer-oscillator,
gain-controlled IF amplifier, audio voltage and output
amplifier, plus tuned circuits; it can be forgiving if one

changes some parts values to see what happens; the RF and
IF stages have frequencies low enough to view with most
modern oscilloscopes. The theory part is very legacy and
can be found in dozens of basic text books. If they are
unused for BC listening now, few will complain if a beginner
tinkers around with it.

>Again, I tried to encourage him to go into SDR's as the cutting-edge
>of homebrewing.

I still disagree. Someone who is only a couple steps up
from crystal detector sets jumping into Software Defined
Radios is making MANY quantum leaps in theory just to get
the PROGRAM working. That program is the heart of SDR...
once there is a processor SOC that can work with the
right frequencies...or A/Ds that work at higher IFs.

Yes, modern cell phones HAVE such things and ICs ARE available
to do RF-to-baseband software-controlled receiver functions.
Ever try to USE one of those in a lab environment? It is
NOT for beginners.

>> "Begin with a simple regenerative receiver?" I say a resounding
>> NO to that.
>
>You do have a point, the OP had a pretty kick-ass all-mode SW receiver
>already. Perhaps a simple rock-bound CW transmitter that could be used
>once he got his ticket would be a much more interesting project.

Naturally using CW now that NO US amateur license requires
a code test? :-(

>But you do correctly deduce that my first ham-band receiver was a
>regen built by me in 5th grade :-).

It's irrelevant WHEN anyone BEGAN getting into the guts
of radios to find out how they worked. The real point
is the HOW of learning, the methods used. Everyone was
a beginner at first.

I built a SW BC regenerative back in 1947 as a teen-ager.
Out of an article in Popular Science. Outside of what
the article text gave, I didn't learn anything but how
to assemble one and solder (which I already knew from
middle-school shop class). I tried "quantum jumping" in
theory on different electronics-radio things back then
but didn't get focussed until entering the US Army and
getting into the Signal Corps. But, that is a personal
experience and isn't for everyone nor even recommended.

>Considering that a complete working multimode multi-band (but used) HF

>ham rig can be bought for not much more than what the ARRL handbook
>costs new, homebrewing a complete rig is a non-starter for even those
>who've been doing simpler projects for decades!

Sorry, but I'll say that is wrong...unless the ARRL suddenly
changed its prices for Handbooks by an order of magnitude.
"Multimode" beyond CW-only? Nah.

>So, thinking it over again, I'd like to advise the OP to find a simple
>CW QRP transmitter project that can be used with his existing receiver
>after he gets his ticket.

It can be checked out BEFORE getting any license...using
it on the bench with a dummy load. That will allow lots
of inspection and playing around with parts values before
connecting it to an antenna. One can do the same with an
AM mode transmitter or FM mode voice transmitter (FM is the
simplest but has to be on VHF and above)...although AM DSB
is frowned upon by the "gentlemen" who occupy the HF bands.

73, Len AF6AY

From 7085003891962004614
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Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My Introductory Post..
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<1174193080.335196.220190@p15g2000hsd.googlegroups.com>
NNTP-Posting-Host: 207.200.116.11
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X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-ntc-td12.proxy.aol.com[CFC871B9] (Prism/1.1.9), HTTP/1.1 cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])

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posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com rec.radio.amateur.homebrew:12691

On Mar 17, 8:44=EF=BF=BDpm, N...@AOL.COM wrote:

> The advice to study an "All American Five" receiver, OTOH, is very bad, for a number of reasons:
>
> 1) You want to build, not take apart. In theory you could take an AA5 all apart and put it back together again, but that's not the same as building something new.

As a LEARNING experience it costs (almost always) nothing.

There must be tens of thousands still sitting around, doing nothing.

> 2) There is a good chance that if you can find an AA5, it will need to be fixed to make it work. While you can learn a lot that way, it's still not the same as building something new.

I disagree. The only one I've seen "not working" was already damaged beyond repair. :-)

I will repeat...it is a LEARNING experience. Since it is working, one can work backwards from that to see what makes it (or a stage within) NOT work.

> 3) The end result of any such effort is going to be a basic receiver for AM broadcast. Not a transmitter or transceiver, and not a piece of amateur radio or SW equipment. If amateur radio/SW is your interest, it seems to me that your projects should be for amateur radio and SW, not AM BC.

True enough, but such receivers still work by the same principles that apply to HF or VHF or LF or VLF.

An advantage to using AM BC is the known "signal sources" in the area. One doesn't absolutely need a signal generator to check or compare its performance.

> 4) AA5 receivers are of transformerless, "AC-DC" design. Usually one side of the AC line is directly connected to the chassis.

I have yet to see one that is so "directly connected to one side of the AC line." They may exist, but all the ones I've handled (maybe two dozen all told, different makes and models) have always used a capacitor to chassis from one side of the AC mains. As I recall, they all had UL stickers on them.

> ... But in order
> to work on one, you want it out of the cabinet and powered up.

Yes, but that applies to ALL such things, yes? :-)

> Working on one requires a lot of extra precautions to avoid getting a
> shock. =A0Better to focus on transformer-operated equipment whose
> chassis can be directly grounded to minimize the shock hazard.

Tens of thousands of tinkerers have gone before you and still survived without being "shocked." :-)

Electricians seem to survive just fine and some of them work directly with "hot" circuits...at higher voltages than a nominal 115 VAC. TV repair folks face 24 KV from picture tube ultors (the final accelerating anode)...even when the power is off and disconnected.

If all else is troublesome, a cheap 1:1 isolation transformer can eliminate all those "hazards." Cost in the neighborhood of $15-$20 for 50 VA. However, even if used, the "B+" is still at 140 to 100 VDC and is always there when working. Precautions are fine but let us use a little realism on "advice" - tube based devices nearly ALL have lethal-potential voltages present. The average solid-state device tops out at +/-15 VDC or thereabouts, NOT a lethal potential.

73, Len AF6AY

From 5372889558724986953
X-Google-Thread: fc2a5,55f22888ef4f5b
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X-Google-Language: ENGLISH,ASCII
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Date: Sun, 18 Mar 2007 18:32:04 -0400
From: **THE-RFI-EMI-GUY** <rhyolite@nettally.com>
Organization: Central Scrutinizer
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Magnetron as RF transciever
References: <1174239611.534840.205810@l75g2000hse.googlegroups.com>
In-Reply-To: <1174239611.534840.205810@l75g2000hse.googlegroups.com>
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```
Content-Transfer-Encoding: 8bit
Lines: 40
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X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12692

Google for "Injection locked magnetron" or substitute "phase locking
magnetron" and go from there. The link is for one paper on the subject
covering phase locking as well as injection locking. Injection locking
uses a circulator on the output of the magenetron as a means to inject
signal from a stable source.

http://www.vhfdx.net/docs/tahir.pdf

By the way whats a "digestor"?

vasile wrote:

>Hello all,
>
>I'm manufacturing from a couple of years all sort of equipment for
>research (digestors, plasma generators, etc)using the microwave power
>field.
>One of these is here: http://incdtim.netfirms.com/digestor_new.jpg
>I was thinking I know everything about magnetrons. However some time
>ago I've discovered a site where the magnetron was used as CW
>transciever using a small power 12/4KV inverter.
>Unfortunately I didn't saved those pages and now I would love to see
>them again.
>Does any of you know about what I'm talking about ?
>
>thank you,
>Vasile
>
>
>

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money"  ;-P



From -2863840498738829621
X-Google-Thread: fc2a5,29ee9b0bfc04a0bd,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.glorb.com!area.cu.mi.it!
```

news.linuxfan.it!linuxfan.it!nnrp.linuxfan.it!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Schematic for AN/APT-4 military jammer/xmitter 15-1100Mhz?
Date: Sun, 18 Mar 2007 18:27:11 -0800
Organization: linuxfan.it News Server
Lines: 5
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NNTP-Posting-Date: Mon, 19 Mar 2007 02:26:24 +0000 (UTC)
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.8.0.10) Gecko/20070221 Thunderbird/1.5.0.10 Mnenhy/0.7.5.666
Xref: g2news1.google.com rec.radio.amateur.homebrew:12693

I am looking for the AN/APT-4 jammer/xmitter, 15-1100Mhz, anyone happen
to have a copy?

Regards,
JS

From -3718800170598408910
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X-Google-Attributes: gidfc2a5,public
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From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1173295111.444796.268900@j27g2000cwj.googlegroups.com>
Subject: Re: One crystal with several mixers?
Date: Sun, 18 Mar 2007 23:15:02 -0400
X-Priority: 3
X-MSMail-Priority: Normal
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X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
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Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12694

<btadey1001@hotmail.com> wrote in message
news:1173295111.444796.268900@j27g2000cwj.googlegroups.com...
> I'm designing a box that will use four SA605 receiver/mixer chips that

> all need the same crystal reference. Even with all the good
> application notes for the SA605, I'm not sure how to do this. Do I
> build a Colpitts oscillator from transistors, buffer it, and then use
> this output as an "external LO" for the mixers? Or do I connect up
> the crystal to the SA605 oscillator pins as usual and then tap off of
> this for the other chips? Using a function generator as an external
> LO, I get the best results injecting a 300mVpp sine wave, if that is
> useful.
>
> Thank you!
>

1 osc driving several paralell buffer amps, the one osc may be one of the
SA605s

```
From 7948497325201641833
X-Google-Thread: fc2a5,7df6c49a19c050da
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <69f3a$45f74f17$d066b697$3793@FUSE.NET>
<12vgt5ite5so564@corp.supernews.com>
Subject: Re: Old microwave
Date: Sun, 18 Mar 2007 23:23:42 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Lines: 45
Message-ID: <45fe023f$0$27053$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12695
```

"Chris Jones" <lugnut808@nospam.yahoo.com> wrote in message
news:12vgt5ite5so564@corp.supernews.com...
> jawod wrote:
>
>> I have an old kitchen microwave unit whose only fault is that the
>> digital readout is broken. As a neophyte homebrew guy (kits only so
>> far...Elecraft K2, etc), Is there anything worth salvaging from this
>> unit?
>>
>> Thanks!

```
>>
>> John
>> AB8O
>
> It's definitely worth keeping the transformer if you have space to store
> it,
> some people make spot-welders or arc welders from several microwave oven
> transformers, by removing the secondary winding and winding on a new one.
>
> I can't think of many sane uses for the intact magnetron but perhaps there
> are some, given sufficient safety precautions.
>
> I would strongly advise against applying power to the transformer with the
> existing secondary winding in place, unless you can be *completely*
> certain
> that you won't get a shock (e.g. all components and wiring should be
> inside
> an earthed metal box).  Those transformers will arc through clothing, will
> provide more than enough current to kill you without blowing the fuse, and
> the primary to secondary isolation means that earth-leakage circuit
> breakers (also called residual current circuit breakers) will not protect
> you.  I certainly don't mean to discourage you from using the parts from
> the oven but that is one appliance that really could kill you so just be
> careful.
>
> Chris
>
>
Whenever I seea few at the GOODWILL I buy them for about $5 a piece.Most
work OKand
I have given several away to churches, GS and such. also put one in my
camper and built a power supply for my 4cx250 amp.




From -2140610692246872878
X-Google-Thread: fc2a5,7df6c49a19c050da
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!y80g2000hsf.googlegroups.com!not-for-
mail
From: "Bill Bowden" <wrongaddress@att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Old microwave
Date: 18 Mar 2007 22:03:33 -0700
Organization: http://groups.google.com
Lines: 43
Message-ID: <1174280613.823232.72840@y80g2000hsf.googlegroups.com>
References: <69f3a$45f74f17$d066b697$3793@FUSE.NET>
   <ECJJh.3869$tv6.1379@newssvr19.news.prodigy.net>
   <12vfpple77ncm4b@news.supernews.com>
   <9c1e0$45f82673$d8c4d79c$25905@FUSE.NET>
   <rOWJh.14902$bb1.12385@newssvr17.news.prodigy.net>
NNTP-Posting-Host: 4.232.90.37
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174280615 17571 127.0.0.1 (19 Mar 2007 05:03:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Mar 2007 05:03:35 +0000 (UTC)
In-Reply-To: <rOWJh.14902$bb1.12385@newssvr17.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.0.10) Gecko/
20070216 Firefox/1.5.0.10,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: y80g2000hsf.googlegroups.com; posting-host=4.232.90.37;
   posting-account=cZAWpgwAAADpr6AiZMi59yc65_lbUhnd
Xref: g2news1.google.com rec.radio.amateur.homebrew:12696

On Mar 14, 10:04 am, "N9WOS" <N...@nobug.sbcglobal.net> wrote:
> > >> The HV transformer. Output 1 to 2KV at several hundred to a thousand
> > >> KVA
>
> > Wow.  Message received.  It'll be fun to disassemble a microwave...when
> > I was a pre-teen, I used to do it to old 1st generation TV's  the best
> > part used to be imploding the picture tube.
>
> > Thanks!
>
> > John
> > AB8O
>
> Ow ow ow ow....... forgot to mention something........
>
> Microwave oven transformers (MOTs) are current limiting. They have magnetic
> shunts between the primary and secondary. You can short the secondary out,
> and it won't blow any breakers. The transformer may hum loudly, but it but
> nothing will blow.
>
> That is why people say that they have poor voltage regulation when used in a
> HV power supply.
>
> You can remove the current limiting by just driving out the magnetic shuts
> with a punch and hammer. The shunts are just stacks of transformer
> laminations stacked up to make a square block, and press fit into the space
> between the primary and secondary.
>
> With the magnetic shunts removed, then the output voltage will go up, and
> the output voltage regulation will be far better. You will be able to draw a
> lot higher peak current from it. But be careful. There is no longer any
> current limiting. If you short out the secondary, the breaker, or fuse will
> blow.

I never had much luck with Microwave power transformers. They seem to
saturate with light loads and draw several amps of line current. If
the load isn't 600 watts, they go crazy, draw lots of current  and
```

heat up. They also have the laminations welded together which reduces efficiency (lots of eddy currents). Might be better suited for a boat anchor.

-Bill

From -2800794620837484775
X-Google-Thread: fc2a5,962cd6a2eca956d0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newshub.stanford.edu!
headwall.stanford.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: My Introductory Post..
Date: 19 Mar 2007 08:08:47 -0500
Organization: Kansas State University
Lines: 18
Message-ID: <etm20v$dug@unix1.cc.ksu.edu>
References: <1174105575.470841.192420@l77g2000hsb.googlegroups.com>
<1174111984.355611.295310@n76g2000hsh.googlegroups.com>
<1174159541.036668.149610@p15g2000hsd.googlegroups.com>
<1174180232.515613.54720@o5g2000hsb.googlegroups.com>
<1174254323.856381.237460@e65g2000hsc.googlegroups.com>
NNTP-Posting-Host: unix1.cc.ksu.edu
X-Trace: cnn.cns.ksu.edu 1174309728 23040 129.130.12.3 (19 Mar 2007 13:08:48 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Mon, 19 Mar 2007 13:08:48 +0000 (UTC)
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12697

<   This is the HOMEBREW newsgroup and is about BUILDING at home.
<   I was trying to focus on the LEARNING aspect of getting
<   acquainted with the various stages of radios. I picked the
<   ordinary old table model radio as a representative of such
<   a LEARNING device for several reasons: There are thousands
<....[snip]....

And if you can find a copy of "Elements of Radio Servicing" by Marcus and Levy, you'll learn even more! I have the 1967 version, and it covers EVERY aspect of an AA5 down to the last details!

It also includes a little bit about transistor, auto, and FM radios.

--
--Myron A. Calhoun; W0PBV; 2001 Dunbar Road; Manhattan, KS 66502-3907
Five boxes preserve our freedoms: soap, ballot, witness, jury, and cartridge
NRA Life Member & Certified Instructor for Rifle, Pistol, & Home Firearm Safety
Also Certified Instructor for the Kansas Concealed-Carry Handgun (CCH) license

From 5787851918286582800
X-Google-Thread: 112d1e,5935a15b6aff2747,start
X-Google-Thread: fc2a5,5935a15b6aff2747,start
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.glorb.com!news.hub.org!sn-xt-sjc-03!sn-xt-sjc-08!sn-post-sjc-02!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: LC Oscillator Questions
Date: Mon, 19 Mar 2007 11:23:54 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vte9djan9nbe3@news.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 37
Xref: g2news1.google.com sci.electronics.design:208270 rec.radio.amateur.homebrew:12698

Pictures available in ABSE

The top trace (yellow) is taken between C4 and R2. The bottom trace (cyan) is taken at the base of the transistor. There is a switchercad file, but the simulation will show allot of distortion that really isn't present in the prototype circuit, because of lots of circuit capactance I suspect. R1 was something I was playing with to try and tame the voltage across L1/C3 being applied to the base.

Hello all,

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What is the secret to beautiful waveforms? Do I need another LC resonator on the output to fix it up? I mean, I'm getting a pretty nice wave now, but there is still some distortion that you can just see at the top of the peaks on the yellow trace.

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I realize that I will need a buffer stage(s) before I can make any real use of the signal, but I want the input to the buffer to be as perfect as possible.

Thanks :-)

From 457721047001350986
X-Google-Thread: 112d1e,5935a15b6aff2747
X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l75g2000hse.googlegroups.com!not-for-mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
Date: 19 Mar 2007 10:27:40 -0700
Organization: http://groups.google.com
Lines: 64
Message-ID: <1174325260.708677.200790@l75g2000hse.googlegroups.com>
References: <12vte9djan9nbe3@news.supernews.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174325262 5253 127.0.0.1 (19 Mar 2007 17:27:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Mar 2007 17:27:42 +0000 (UTC)
In-Reply-To: <12vte9djan9nbe3@news.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.10) Gecko/20070216 Firefox/1.5.0.10,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l75g2000hse.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news1.google.com sci.electronics.design:208282 rec.radio.amateur.homebrew:12699

On Mar 19, 9:23 am, "Anthony Fremont" <spam-...@nowhere.com> wrote:
> Pictures available in ABSE
>
> The top trace (yellow) is taken between C4 and R2. The bottom trace (cyan) is taken at the base of the transistor. There is a switchercad file, but the simulation will show allot of distortion that really isn't present in the prototype circuit, because of lots of circuit capactance I suspect. R1 was something I was playing with to try and tame the voltage across L1/C3 being applied to the base.
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>
> I realize that I will need a buffer stage(s) before I can make any real use of the signal, but I want the input to the buffer to be as perfect as possible.
>
> Thanks :-)

The waveform in a high Q tank that's lightly coupled to the amplifier should be very nearly sinusoidal. If in addition, the amplifier remains linear and represents a constant impedance over the whole cycle of the waveform, then the waveforms should everywhere be sinusoidal. If the amplifier+tank has barely enough loop gain to sustain oscillation, then clipping will be minimal, but it's also possible to detect the level and control the gain of the amplifier. You could, for example, use a light bulb like HP did in their original audio oscillator. Beware, though, that best oscillator performance in other regards may not be achieved the same way you achieve lowest harmonic distortion. Be careful that you optimize the right things for your application.

In the work I do, I need to measure distortion, and the generators I use don't have low enough distortion in their outputs to be directly useful. The distortion levels in the "raw" outputs are generally about -40 to -50dBc. I use filters to make things better, and can get to -140dBc distortion levels fairly easily. If it's low harmonic distortion you want, I'd suggest that it may be better to just put a filter on the output of the oscillator that has only moderately low harmonic output, and not worry so much about that aspect of oscillator performance. Filters work well when the oscillator frequency range is about 1.5:1 or less. Much more than that and you'd need to switch in different filters depending on the oscillator frequency.

Cheers,
Tom

From -1893457995168930098
X-Google-Thread: 112d1e,5935a15b6aff2747
X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!newsmm00.sul.t-online.de!t-online.de!
news.t-online.com!not-for-mail
From: "Helmut Sennewald" <helmutsennewald@t-online.de>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
Date: Mon, 19 Mar 2007 18:31:30 +0100
Organization: T-Online
Lines: 72
Message-ID: <etmhdb$ka9$00$1@news.t-online.com>
References: <12vte9djan9nbe3@news.supernews.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
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X-ID: bcya6GZaQenDeNfUT3BieWopE+cibgvXIU-YdZ5sERsNPONgYaBw0p
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
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X-RFC2646: Format=Flowed; Response
Xref: g2news1.google.com sci.electronics.design:208283
rec.radio.amateur.homebrew:12700

Hello Anthony,

1.
Please set the following option to sitch off data reduction/compression
in the result file..

```
.options plotwinsize=0
```

2.
You have to set a small maximum timestep in the .TRAN line too.
Maybe a value of 0.01*Period of oscillation if you hunt for very low
distortion.

Can you send me your file (.asc-file and model-file?) to check it?

Best regards,
Helmut

"Anthony Fremont" <spam-not@nowhere.com> schrieb im Newsbeitrag
news:12vte9djan9nbe3@news.supernews.com...
> Pictures available in ABSE
>
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>
> Thanks :-)
>
>
>

From 4648901520877257825

X-Google-Thread: 112d1e,5935a15b6aff2747
X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 Mar 2007 12:38:53 -0500
Date: Mon, 19 Mar 2007 10:40:24 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
References: <12vte9djan9nbe3@news.supernews.com>
In-Reply-To: <12vte9djan9nbe3@news.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
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Lines: 70
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X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com sci.electronics.design:208284 rec.radio.amateur.homebrew:12701

Anthony Fremont wrote:

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>
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>
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>
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>
>
>

The secret to a beautiful waveform is -- you usually don't need it straight from the oscillator.

There are a lot of things that you want out of an LC oscillator. Low phase noise, frequency stability, consistently strong oscillation, pure tone, etc. Of these, the only two that you can't clean up later in the following amplifier chain is low phase noise and frequency stability. Concentrate on those, & don't sweat the nice waveform.

Frequency stability and phase noise performance are often achieved by intentionally designing the amplifier so the active element operates in class C, without ever going into voltage saturation. This keeps it's drain (or collector) impedance high, yet delivers a large voltage swing to the gate (or base) to keep phase noise low. It also gives you a more or less consistent standing voltage in the tank, which helps the design of the following buffer stages.

If you absolutely positively must tap the World's Most Beautiful Sine Wave off of the oscillator section, consider a parallel-tuned tank that's loosely coupled to the active element. Then loosely couple your output tap to that -- it's your best chance.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

From -2515534449666313876
X-Google-Thread: 112d1e,5935a15b6aff2747
X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newshub.stanford.edu!sn-xt-sjc-03!sn-xt-sjc-11!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
Date: Mon, 19 Mar 2007 13:34:45 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vtluftj22nrf0@news.supernews.com>
References: <12vte9djan9nbe3@news.supernews.com> <1174325260.708677.200790@l75g2000hse.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 36
Xref: g2news1.google.com sci.electronics.design:208300 rec.radio.amateur.homebrew:12702

K7ITM wrote:
> On Mar 19, 9:23 am, "Anthony Fremont" <spam-...@nowhere.com> wrote:
> The waveform in a high Q tank that's lightly coupled to the amplifier
> should be very nearly sinusoidal. If in addition, the amplifier
> remains linear and represents a constant impedance over the whole
> cycle of the waveform, then the waveforms should everywhere be
> sinusoidal. If the amplifier+tank has barely enough loop gain to
> sustain oscillation, then clipping will be minimal, but it's also
> possible to detect the level and control the gain of the amplifier.
> You could, for example, use a light bulb like HP did in their original
> audio oscillator. Beware, though, that best oscillator performance in
> other regards may not be achieved the same way you achieve lowest
> harmonic distortion. Be careful that you optimize the right things
> for your application.

After reading the other replies, it seems aparent that the shape of the
signal from the first stage is not that critical, it is stability and phase
noise that are most important. So, I should put things back where there is
clipping to be sure that the oscillator oscillates and then clean up the
signal in subsequent stages.

> In the work I do, I need to measure distortion, and the generators I
> use don't have low enough distortion in their outputs to be directly
> useful. The distortion levels in the "raw" outputs are generally
> about -40 to -50dBc. I use filters to make things better, and can get
> to -140dBc distortion levels fairly easily. If it's low harmonic
> distortion you want, I'd suggest that it may be better to just put a

> filter on the output of the oscillator that has only moderately low
> harmonic output, and not worry so much about that aspect of oscillator
> performance. Filters work well when the oscillator frequency range is
> about 1.5:1 or less. Much more than that and you'd need to switch in
> different filters depending on the oscillator frequency.

Thanks. :-)

From -2308666647664600051
X-Google-Thread: 112d1e,5935a15b6aff2747
X-Google-Thread: fc2a5,5935a15b6aff2747
X-Google-Attributes: gid112d1e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!sn-xt-sjc-05!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew
Subject: Re: LC Oscillator Questions
Date: Mon, 19 Mar 2007 13:39:44 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vtm7qlqs1pe31@news.supernews.com>
References: <12vte9djan9nbe3@news.supernews.com> <etmhdb$ka9$00$1@news.t-online.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 156
Xref: g2news1.google.com sci.electronics.design:208304 rec.radio.amateur.homebrew:12703

Helmut Sennewald wrote:
> Hello Anthony,
>
> 1.
> Please set the following option to sitch off data
> reduction/compression in the result file..
>
> .options plotwinsize=0
>
> 2.
> You have to set a small maximum timestep in the .TRAN line too.
> Maybe a value of 0.01*Period of oscillation if you hunt for very low
> distortion.
>
>
> Can you send me your file (.asc-file and model-file?) to check it?

In alt.binaries.schematics.electronic I have posted the schematic, the asc-file and an oscilloscope screen shot from an actual circuit. Here is the asc-file contents:

```
Version 4
SHEET 1 880 708
WIRE -704 -96 -784 -96
WIRE -400 -96 -704 -96
WIRE -224 -96 -400 -96
WIRE -704 -16 -704 -96
WIRE -400 -16 -400 -96
WIRE -224 32 -224 -96
WIRE -544 80 -592 80
WIRE -400 80 -400 64
WIRE -400 80 -464 80
WIRE -288 80 -400 80
WIRE -592 128 -592 80
WIRE -400 144 -400 80
WIRE -784 160 -784 -96
WIRE -400 240 -400 208
WIRE -224 240 -224 128
WIRE -224 240 -400 240
WIRE -80 240 -224 240
WIRE 48 240 -16 240
WIRE -784 272 -784 240
WIRE -704 272 -704 48
WIRE -592 272 -592 208
WIRE -400 272 -400 240
WIRE -224 288 -224 240
WIRE -592 384 -592 336
WIRE -400 384 -400 336
WIRE -400 384 -592 384
WIRE -224 384 -224 368
WIRE -224 384 -400 384
WIRE -400 448 -400 384
FLAG -784 272 0
FLAG -400 448 0
FLAG -704 272 0
FLAG 48 320 0
SYMBOL voltage -784 144 R0
WINDOW 123 0 0 Left 0
WINDOW 39 0 0 Left 0
SYMATTR InstName V1
SYMATTR Value 5.8
SYMBOL res -416 -32 R0
SYMATTR InstName R3
SYMATTR Value 100k
SYMBOL npn -288 32 R0
SYMATTR InstName Q3
SYMATTR Value 2N3904
SYMBOL cap -416 144 R0
SYMATTR InstName C1
SYMATTR Value .01�
```

```
SYMBOL res -240 272 R0
SYMATTR InstName R7
SYMATTR Value 1k
SYMBOL cap -416 272 R0
SYMATTR InstName C2
SYMATTR Value 500p
SYMBOL ind -608 112 R0
SYMATTR InstName L1
SYMATTR Value 20�
SYMATTR SpiceLine Rser=.1
SYMBOL cap -608 272 R0
SYMATTR InstName C3
SYMATTR Value 200p
SYMBOL cap -16 224 R90
WINDOW 0 0 32 VBottom 0
WINDOW 3 32 32 VTop 0
SYMATTR InstName C4
SYMATTR Value 270p
SYMBOL res -448 64 R90
WINDOW 0 0 56 VBottom 0
WINDOW 3 32 56 VTop 0
SYMATTR InstName R1
SYMATTR Value .001
SYMBOL cap -720 -16 R0
SYMATTR InstName C5
SYMATTR Value 10�
SYMBOL res 32 224 R0
SYMATTR InstName R2
SYMATTR Value 10000k
TEXT -792 360 Left 0 !.tran 50uS
```

Thank you for your time.

> Best regards,
> Helmut
>
>
>
>
> "Anthony Fremont" <spam-not@nowhere.com> schrieb im Newsbeitrag
> news:12vte9djan9nbe3@news.supernews.com...
>> Pictures available in ABSE
>>
>> The top trace (yellow) is taken between C4 and R2. The bottom trace
>> (cyan)
>> is taken at the base of the transistor. There is a switchercad
>> file, but the simulation will show allot of distortion that really
>> isn't present in the prototype circuit, because of lots of circuit
>> capactance I suspect. R1
>> was something I was playing with to try and tame the voltage across
>> L1/C3 being applied to the base.
>>

>>
>> Hello all,
>>
>> I was tinkering with this LC oscillator (Colpitts/Clapp) this
>> weekend. I arrived at the values of C1 and C2 empirically after
>> starting with a crystal
>> oscillator circuit. The values in the original circuit created a
>> horrid waveform that looked allot like the simulation. After much
>> tinkering around
>> and simulating, I come to the conclusion that getting a perfect
>> waveform is
>> nearly impossible, especially with big swing. It seems that the
>> transistor
>> likes to take a bite out of the right half of the peak of the wave.
>>
>> What is the secret to beautiful waveforms? Do I need another LC
>> resonator on the output to fix it up? I mean, I'm getting a pretty
>> nice wave now, but
>> there is still some distortion that you can just see at the top of
>> the peaks
>> on the yellow trace.
>>
>> How do you control the peak voltages of an LC resonattor without
>> mangling the waveform? The waveform at the junction of L1/C3 is of
>> course quite beautiful, how do I get it from there to the output? ;-) I
>> realize that I will need a buffer stage(s) before I can make any
>> real use
>> of the signal, but I want the input to the buffer to be as perfect as
>> possible.
>>
>> Thanks :-)

From 453316279312106808
X-Google-Thread: fc2a5,55f22888ef4f5b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!d57g2000hsg.googlegroups.com!not-for-mail
From: "vsurducan@gmail.com" <vsurducan@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Magnetron as RF transciever
Date: 19 Mar 2007 11:43:52 -0700
Organization: http://groups.google.com
Lines: 56
Message-ID: <1174329832.066057.91000@d57g2000hsg.googlegroups.com>
References: <1174239611.534840.205810@l75g2000hse.googlegroups.com>
   <45fdbdd5$0$17190$4c368faf@roadrunner.com>
NNTP-Posting-Host: 83.103.129.180
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1174329833 21653 127.0.0.1 (19 Mar 2007 18:43:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Mar 2007 18:43:53 +0000 (UTC)
In-Reply-To: <45fdbdd5$0$17190$4c368faf@roadrunner.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d57g2000hsg.googlegroups.com; posting-host=83.103.129.180;
   posting-account=SuWl0A0AAAASkOgBLr6LxytIPhJjaD4O
Xref: g2news1.google.com rec.radio.amateur.homebrew:12704

On Mar 18, 2:32 pm, **THE-RFI-EMI-GUY** <rhyol...@nettally.com> wrote:
> Google for "Injection locked magnetron" or substitute "phase locking
> magnetron" and go from there. The link is for one paper on the subject
> covering phase locking as well as injection locking. Injection locking
> uses a circulator on the output of the magenetron as a means to inject
> signal from a stable source.
>
> http://www.vhfdx.net/docs/tahir.pdf
>
> By the way whats a "digestor"?

Digester or digestor is a device wich is able to reproduce fast any
digesting process
(like the one inside your stomach) including soil, human tissues,
chemicals etc.

I think the links I saw was one of those:
http://209.85.135.104/search?q=3Dcache:lmKTArGaPb8J:gbppr.dyndns.org/mil/he=
rf/index.html+phase+locking+magnetron&hl=3Den&ct=3Dclnk&cd=3D81

unfortunetely I can't see only the cache...

>
>
>
>
>
> vasile wrote:
> >Hello all,
>
> >I'm manufacturing from a couple of years all sort of equipment for
> >research (digestors, plasma generators, etc)using the microwave power
> >field.
> >One of these is here:http://incdtim.netfirms.com/digestor_new.jpg
> >I was thinking I know everything about magnetrons. However some time
> >ago I've discovered a site where the magnetron was used as CW
> >transciever using a small power 12/4KV inverter.
> >Unfortunately I didn't saved those pages and now I would love to see
> >them again.
> >Does any of you know about what I'm talking about ?

>
> >thank you,
> >Vasile
>
> --
> Joe Leikhim K4SAT
> "The RFI-EMI-GUY"=A9
>
> "Treason doth never prosper: what's the reason?
> For if it prosper, none dare call it treason."
>
> "Follow The Money" ;-P- Hide quoted text -
>
> - Show quoted text -

```
From -5424924530800836499
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.germany.com!multikabel.net!
feed20.multikabel.net!news2.euro.net!62.253.162.218.MISMATCH!news-in.ntli.net!
newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe7-win.ntli.net.POSTED!53ab2750!not-for-mail
From: "colin" <colin.rowe1@ntworld.NOSPAM.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
References: <12vdm9fk86gbr98@news.supernews.com>
<1173875872.602199.152140@d57g2000hsg.googlegroups.com>
<12vfthpqueljv7a@news.supernews.com> <12vfuu8q15l1q57@news.supernews.com>
Subject: Re: VCXO frequency isn't high enough
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <gyWJh.4027$0Z1.1993@newsfe7-win.ntli.net>
Date: Wed, 14 Mar 2007 17:46:52 GMT
NNTP-Posting-Host: 82.1.178.213
X-Trace: newsfe7-win.ntli.net 1173894412 82.1.178.213 (Wed, 14 Mar 2007 17:46:52
GMT)
NNTP-Posting-Date: Wed, 14 Mar 2007 17:46:52 GMT
Organization: NTL
Xref: g2news1.google.com rec.radio.amateur.homebrew:12605
sci.electronics.basics:47627 sci.electronics.design:206418
```

"Anthony Fremont" <spam-not@nowhere.com> wrote in message
news:12vfuu8q15l1q57@news.supernews.com...

```
> Anthony Fremont wrote:
>
>> Doodling with reactance formulas, it appears that 20uH (coincidence?)
>> would offset 100pF of capacitance fairly well by having a an opposing
>> reactance (well resistance at this point) of about 450 Ohms at
>
> s/.well resistance at this point.//
> It's just inductive reactance, I need more coffee. ;-)
>
>> 3581kHz, the same as 100pF.  I'll try putting the coil I made in
>> parallel and see what happens. Hopefully it won't short the
>> oscillator and kill my 15 year old NE602, I only have two spares.
>
> Should I be afraid to do this?  Does it need something to block DC
> current?
>

the trimmer should block all the dc.
im not convinced about the inductor in parallel with the crystal
it might work though.




From 2321284317277235341
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d57g2000hsg.googlegroups.com!not-for-
mail
From: cs_posting@hotmail.com
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: 14 Mar 2007 10:47:04 -0700
Organization: http://groups.google.com
Lines: 23
Message-ID: <1173894424.729782.24000@d57g2000hsg.googlegroups.com>
References: <12vdm9fk86gbr98@news.supernews.com>
NNTP-Posting-Host: 208.44.68.190
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173894426 32692 127.0.0.1 (14 Mar 2007 17:47:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 14 Mar 2007 17:47:06 +0000 (UTC)
In-Reply-To: <12vdm9fk86gbr98@news.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.6)
Gecko/20060728 Firefox/1.5.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d57g2000hsg.googlegroups.com; posting-host=208.44.68.190;
```

```
   posting-account=eJWpAgwAAAA6NSvVMPW-24TZytfy8oL2
Xref: g2news1.google.com rec.radio.amateur.homebrew:12606
sci.electronics.basics:47628 sci.electronics.design:206419

On Mar 13, 12:02 pm, "Anthony Fremont" <spam-...@nowhere.com> wrote:

> I believe this is direct conversion and that the crystal should exactly
> match the desired station (3581kHz) I want to recieve, that's right isn't
> it?  Maybe this is close enough?  I have to wait til tonight to see if I can
> actually hear anything.

Depends on what sort of signal you are trying to receive.

To receive a single our double sideband signal (or, in a very touchy
way, an AM one), you want your direct conversion receiver's local
oscillator exactly on the transmitter frequency.

But to receive a CW signal, you want your local oscillator 700 Hz or
so above or below the transmit frequency.  That will cause you to hear
a 700 Hz audio tone for the CW.

Unless I'm mistaken, 3.581 MHz is in the CW portion of the 80 meter
band.
If you can get to 1 KHz below the transmitter, you should be able to
copy CW as 1KHz audio.  If you can only get to 1.5 KHz below, you'll
get 1.5 KHz audio... not ideal listening, but probably workable.



From 4384435782006882228
X-Google-Thread: fc2a5,7df6c49a19c050da
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr17.news.prodigy.net.POSTED!35cb456c!not-for-
mail
From: "N9WOS" <N9WOS@nobug.sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <69f3a$45f74f17$d066b697$3793@FUSE.NET>
<ECJJh.3869$tv6.1379@newssvr19.news.prodigy.net>
<12vfpple77ncm4b@news.supernews.com> <9c1e0$45f82673$d8c4d79c$25905@FUSE.NET>
Subject: Re: Old microwave
Lines: 35
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Message-ID: <rOWJh.14902$bb1.12385@newssvr17.news.prodigy.net>
NNTP-Posting-Host: 66.72.68.109
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr17.news.prodigy.net 1173895447 ST000 66.72.68.109 (Wed, 14 Mar
2007 14:04:07 EDT)
```

NNTP-Posting-Date: Wed, 14 Mar 2007 14:04:07 EDT
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
Q[R_@S^DLXSMR_H]]RKB_UDAZZ\DPCPDLXUNNHPHBATBTSUBYFWEAE[YJLYPIWKHTFCMZKVMB^[Z^DOBRV
VMOSPFHNSYXVDIE@X\BUC@GTSX@DL^GKFFHQCCE\G[JJBMYDYIJCZM@AY]GNGPJD]YNNW\GSX^GSCKHA[]
@CCB\[@LATPD\L@J\\PF]VR[QPJN
Date: Wed, 14 Mar 2007 13:04:34 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:12607

> >> The HV transformer. Output 1 to 2KV at several hundred to a thousand
> >> KVA
> >>

> Wow. Message received. It'll be fun to disassemble a microwave...when
> I was a pre-teen, I used to do it to old 1st generation TV's the best
> part used to be imploding the picture tube.
>
> Thanks!
>
> John
> AB8O

Ow ow ow ow....... forgot to mention something........

Microwave oven transformers (MOTs) are current limiting. They have magnetic
shunts between the primary and secondary. You can short the secondary out,
and it won't blow any breakers. The transformer may hum loudly, but it but
nothing will blow.

That is why people say that they have poor voltage regulation when used in a
HV power supply.

You can remove the current limiting by just driving out the magnetic shuts
with a punch and hammer. The shunts are just stacks of transformer
laminations stacked up to make a square block, and press fit into the space
between the primary and secondary.

With the magnetic shunts removed, then the output voltage will go up, and
the output voltage regulation will be far better. You will be able to draw a
lot higher peak current from it. But be careful. There is no longer any
current limiting. If you short out the secondary, the breaker, or fuse will
blow.

From 2475949334433058706
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d57g2000hsg.googlegroups.com!not-for-

mail
From: "Arv" <arvid.evans@gmail.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: 14 Mar 2007 11:08:02 -0700
Organization: http://groups.google.com
Lines: 36
Message-ID: <1173895682.502627.79970@d57g2000hsg.googlegroups.com>
References: <12vdm9fk86gbr98@news.supernews.com>
   <1173875872.602199.152140@d57g2000hsg.googlegroups.com>
   <12vfthpqueljv7a@news.supernews.com>
   <12vfuu8q15l1q57@news.supernews.com>
NNTP-Posting-Host: 71.32.182.171
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173895684 3404 127.0.0.1 (14 Mar 2007 18:08:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 14 Mar 2007 18:08:04 +0000 (UTC)
In-Reply-To: <12vfuu8q15l1q57@news.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.2) Gecko/20060601 Firefox/2.0.0.2 (Ubuntu-edgy),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d57g2000hsg.googlegroups.com; posting-host=71.32.182.171;
   posting-account=j8G-ZQ0AAAArGSmSv5U2nhz6Vo5TeLQN
Xref: g2news1.google.com rec.radio.amateur.homebrew:12608
sci.electronics.basics:47629 sci.electronics.design:206428

On 14 Mar, 07:42, "Anthony Fremont" <spam-...@nowhere.com> wrote:

> Anthony Fremont wrote:
> > Doodling with reactance formulas, it appears that 20uH (coincidence?)
> > would offset 100pF of capacitance fairly well by having a an opposing
> > reactance (well resistance at this point) of about 450 Ohms at
>
> s/.well resistance at this point.//
> It's just inductive reactance, I need more coffee. ;-)
>
> > 3581kHz, the same as 100pF. I'll try putting the coil I made in
> > parallel and see what happens. Hopefully it won't short the
> > oscillator and kill my 15 year old NE602, I only have two spares.
>
> Should I be afraid to do this? Does it need something to block DC current?

Anthony

Your trimmer cap will block any DC flow to ground. If you are really paranoid then put a 0.1 mfd in series with the crystal.

If you do accidentally ground the crystal input terminal on that SA602, it only pulls the base of a transistor to ground and thus turns it off. That shouldn't hurt anything.

While you may not be able to purchase new "602's" now (they are long
ago declared obsolete) the Phillips SA-612 is the same unit and is
readily available from a number of outlets.

A datasheet for this device is located at:

http://www.nxp.com/pip/SA612AD_01.html

Arv - K7HKL
_._

From -4730175694076024355
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!
news.osn.de!diablo2.news.osn.de!news.tele.dk!news.tele.dk!small.news.tele.dk!sn-
xt-sjc-02!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-
mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Wed, 14 Mar 2007 15:33:51 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vgn1i8cj8bo4d@news.supernews.com>
References: <12vdm9fk86gbr98@news.supernews.com>
<ebFJh.18554$j7.368943@news.indigo.ie> <12veb8176c9ed7@news.supernews.com>
<2gqev2lgj47683bgks9jkeqe1smb0k896e@4ax.com> <9RRJh.198$pP5.129@newsfe3-
gui.ntli.net> <12vfsjje4rdv8d@news.supernews.com> <oaWJh.1962$B37.1473@newsfe2-
win.ntli.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 75
Xref: g2news1.google.com rec.radio.amateur.homebrew:12609
sci.electronics.basics:47637 sci.electronics.design:206476

colin wrote:
> "Anthony Fremont" <spam-not@nowhere.com> wrote in message
> news:12vfsjje4rdv8d@news.supernews.com...
>> colin wrote:
>>
>>> Its only a pull of ~100ppm, this should be easily pullable for most

>>> fundamental xtals.
>>
>> I'd like to get close to 500ppm if possible.
>
> do you need that much ?

I "need" an increase of about .0546%. Isn't that about 546ppm?

> what freq you need ?

3581.5kHz to zero beat with the desired signal.

> whats the colourburst crystal freq ?

3579.545kHz.

>>> ofc if the tolerenace all add up against you you might find it hard.
>>>
>>> I would also try reduce the 100pf caps on the sa602 too.
>>> 100pf is higher than most crystals I use would like,
>>> 50pf or 20pf or if youve got some spare trimmers ...
>>> you can adjust the ratio too, say just reduce the one accross pin
>>> 6-7
>>
>> I figured that they were voltage dividers to set the amount of
>> feedback, but I can certainly see how they could have an effect. Since
>> I'm close to where I need to be, I will try a couple of 33pF
>> caps to see what happens.
>
> no they are involved in setting the frequency too,
> in order for you circuit to work it needs to resonate,
> with the 2 100pf the input where the crystal is looks like a
> capacitor with some negative impedance,
> the circuit with your crystal, inductor, and trimmer must be
> inductive, it then forms a resonant ciruit with the capacitance of the
> input.
> usualy the crystal would just be operated so that it looks inductive.

Ok, I had to read that a few times to get it. A period between ".....100pf"
and "the input..." there would have been quite helpful. ;-)

> the negative part of the input impedance must be stronger than the
> loss in the tuned circuit.
> this is affected by the ratio of the 2 100pf capacitors.

So they do act like a voltage divider of sorts and shunt some of the
oscillator output to ground and some back to the input.

> a crystal can apear to be a very high inductance at resonance,
> at the point where you want to operate it probably has very high
> inductance indeed.
> you can determnine the eqv inductance by using the equivalent internal

> inductance and capacitance. you need to find the mutual capacitance
> of the crystal wich is hard to find man specs wich tel you this but
> it is often something like 14ff for example.
> (0.014pf) you can then work out the eqv series inductance for it to
> resonate with the std load wich may be 20pf.
>
> you can then work out what inductance the crystal will apear to have
> at the frequency you want. and hence the series capacitance you need.
> you might find the inductance is so high that you need less than 1pf
> or it has become capacitive.

Cool, a way to figure out just how high you can pull it and how to attain a
certain frequency. I'll probably stick to tinkering though. ;-) Thanks
allot for the detailed explanation. :-)

From 2050320113719291714
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Wed, 14 Mar 2007 15:40:13 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vgndgj1mvp8e1@news.supernews.com>
References: <12vdm9fk86gbr98@news.supernews.com>
<1173875872.602199.152140@d57g2000hsg.googlegroups.com>
<12vfthpqueljv7a@news.supernews.com>   <12vfuu8q15l1q57@news.supernews.com>
<1173895682.502627.79970@d57g2000hsg.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 52
Path: g2news1.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!aotearoa.belnet.be!news.belnet.be!nerim.net!feed.ac-
versailles.fr!uvsq.fr!freenix!sn-xt-sjc-05!sn-xt-sjc-08!sn-post-sjc-01!
supernews.com!news.supernews.com!not-for-mail
Xref: g2news1.google.com rec.radio.amateur.homebrew:12610
sci.electronics.basics:47640 sci.electronics.design:206477

Arv wrote:
> On 14 Mar, 07:42, "Anthony Fremont" <spam-...@nowhere.com> wrote:
>> Anthony Fremont wrote:
>>> Doodling with reactance formulas, it appears that 20uH

>>> (coincidence?) would offset 100pF of capacitance fairly well by
>>> having a an opposing reactance (well resistance at this point) of
>>> about 450 Ohms at
>>
>> s/.well resistance at this point.//
>> It's just inductive reactance, I need more coffee. ;-)
>>
>>> 3581kHz, the same as 100pF. I'll try putting the coil I made in
>>> parallel and see what happens. Hopefully it won't short the
>>> oscillator and kill my 15 year old NE602, I only have two spares.
>>
>> Should I be afraid to do this? Does it need something to block DC
>> current?
>
> Anthony
>
> Your trimmer cap will block any DC flow to ground. If you are really
> paranoid then put a 0.1 mfd in series with the crystal.

Doh, I see that now. For some reason I was thinking that they crystal had
both pins connected to the oscillator on the 602, and not with one leg
grounded as the circuit has it. Having yet another senior moment I guess.
Only about the tenth one so far this week.

> If you do accidentally ground the crystal input terminal on that
> SA602, it only pulls the base of a transistor to ground and thus turns
> it off. That shouldn't hurt anything.
>
> While you may not be able to purchase new "602's" now (they are long
> ago declared obsolete) the Phillips SA-612 is the same unit and is
> readily available from a number of outlets.

I saw that 612 part when I was poking around on the net. A fellow ham gave
me three NE602s about 15 years ago. I had fogotten about them and recently
found them. I even have a couple of tuning cap vernier drives he gave me.

> A datasheet for this device is located at:
>
>   http://www.nxp.com/pip/SA612AD_01.html

Thanks

> Arv - K7HKL
> _·_

_·· ·   _· ····· __·_ __ __·

From -4745017350553011619
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99

```
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n76g2000hsh.googlegroups.com!not-for-
mail
From: cs_posting@hotmail.com
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: 14 Mar 2007 13:48:29 -0700
Organization: http://groups.google.com
Lines: 8
Message-ID: <1173905309.710951.56940@n76g2000hsh.googlegroups.com>
References: <12vdm9fk86gbr98@news.supernews.com>
   <ebFJh.18554$j7.368943@news.indigo.ie>
   <12veb8176c9ed7@news.supernews.com>
   <2gqev2lgj47683bgks9jkeqe1smb0k896e@4ax.com>
   <9RRJh.198$pP5.129@newsfe3-gui.ntli.net>
   <12vfsjje4rdv8d@news.supernews.com>
   <oaWJh.1962$B37.1473@newsfe2-win.ntli.net>
   <12vgn1i8cj8bo4d@news.supernews.com>
NNTP-Posting-Host: 208.44.68.190
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173905311 12167 127.0.0.1 (14 Mar 2007 20:48:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 14 Mar 2007 20:48:31 +0000 (UTC)
In-Reply-To: <12vgn1i8cj8bo4d@news.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.6)
Gecko/20060728 Firefox/1.5.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n76g2000hsh.googlegroups.com; posting-host=208.44.68.190;
   posting-account=eJWpAgwAAAA6NSvVMPW-24TZytfy8oL2
Xref: g2news1.google.com rec.radio.amateur.homebrew:12611
sci.electronics.basics:47641 sci.electronics.design:206480

On Mar 14, 3:33 pm, "Anthony Fremont" <spam-...@nowhere.com> wrote:

> > what freq you need ?
>
> 3581.5kHz to zero beat with the desired signal.

But why do you want to zero beat?



From -9059291691196887892
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news1.google.com!news1.google.com!news.germany.com!newsfeed.bit.nl!
news2.euro.net!62.253.162.218.MISMATCH!news-in.ntli.net!newsrout1-win.ntli.net!
ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!newsfe3-
gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "colin" <colin.rowe1@ntworld.NOSPAM.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
References: <12vdm9fk86gbr98@news.supernews.com>
<ebFJh.18554$j7.368943@news.indigo.ie> <12veb8176c9ed7@news.supernews.com>
<2gqev2lgj47683bgks9jkeqe1smb0k896e@4ax.com> <9RRJh.198$pP5.129@newsfe3-
gui.ntli.net> <12vfsjje4rdv8d@news.supernews.com> <oaWJh.1962$B37.1473@newsfe2-
win.ntli.net> <12vgn1i8cj8bo4d@news.supernews.com>
Subject: Re: VCXO frequency isn't high enough
Lines: 116
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <YuZJh.904$pP5.865@newsfe3-gui.ntli.net>
Date: Wed, 14 Mar 2007 21:08:08 GMT
NNTP-Posting-Host: 82.1.178.213
X-Trace: newsfe3-gui.ntli.net 1173906488 82.1.178.213 (Wed, 14 Mar 2007 21:08:08
GMT)
NNTP-Posting-Date: Wed, 14 Mar 2007 21:08:08 GMT
Organization: NTL
Xref: g2news1.google.com rec.radio.amateur.homebrew:12612
sci.electronics.basics:47645 sci.electronics.design:206488

"Anthony Fremont" <spam-not@nowhere.com> wrote in message
news:12vgn1i8cj8bo4d@news.supernews.com...
> colin wrote:
>> "Anthony Fremont" <spam-not@nowhere.com> wrote in message
>> news:12vfsjje4rdv8d@news.supernews.com...
>>> colin wrote:
>>>
>>>> Its only a pull of ~100ppm, this should be easily pullable for most
>>>> fundamental xtals.
>>>
>>> I'd like to get close to 500ppm if possible.
>>
>> do you need that much ?
>
> I "need" an increase of about .0546%.  Isn't that about 546ppm?
>
>> what freq you need ?
>
> 3581.5kHz to zero beat with the desired signal.
>
>> whats the colourburst crystal freq ?
>
> 3579.545kHz.
```

aha ok, thats a fair bit, but maybe within range, as as been said at a
certain frequency the crystal becomes a complete open circuit.

>
>
>>>> ofc if the tolerenace all add up against you you might find it hard.
>>>>
>>>> I would also try reduce the 100pf caps on the sa602 too.
>>>> 100pf is higher than most crystals I use would like,
>>>> 50pf or 20pf or if youve got some spare trimmers ...
>>>> you can adjust the ratio too, say just reduce the one accross pin
>>>> 6-7
>>>
>>> I figured that they were voltage dividers to set the amount of
>>> feedback, but I can certainly see how they could have an effect. Since
>>> I'm close to where I need to be, I will try a couple of 33pF
>>> caps to see what happens.
>>
>> no they are involved in setting the frequency too,
>> in order for you circuit to work it needs to resonate,
>> with the 2 100pf the input where the crystal is looks like a
>> capacitor with some negative impedance,
>> the circuit with your crystal, inductor, and trimmer must be
>> inductive, it then forms a resonant ciruit with the capacitance of the
>> input.
>> usualy the crystal would just be operated so that it looks inductive.
>
> Ok, I had to read that a few times to get it. A period between
> ".....100pf" and "the input..." there would have been quite helpful. ;-)

Yeah I kinda got lost in my own explanation myself. didnt have much time to
explain.

>
>> the negative part of the input impedance must be stronger than the
>> loss in the tuned circuit.
>> this is affected by the ratio of the 2 100pf capacitors.
>
> So they do act like a voltage divider of sorts and shunt some of the
> oscillator output to ground and some back to the input.

this circuit is an emiter folower wich has no voltage gain,
so actually they operate in the opposite way wich is kinda confusing but let
me explain ...
consider a typical tuned circuit with LC and a tap in the L,
driving the circuit at the tap acts as a step up,
but the crystal is the inductor wich make it difficult to put a tap here,
but at resonance the 2 capacitors can act in the same way and provide a
voltage step up.

but you can see there is a curent loop involving all these components in
series,
this is what sets the frequency.

If you decrease the capacitor accross the 2 pins of the ic this will
increase the voltage accros it and so give more drive, as wel as increase
the frequency.

another way to look at it is if you consider that ground is at the base then
the capacitors are in fact a voltage divider wich feed into the emiter of a
comon base amplifier.

>> a crystal can apear to be a very high inductance at resonance,
>> at the point where you want to operate it probably has very high
>> inductance indeed.
>> you can determnine the eqv inductance by using the equivalent internal
>> inductance and capacitance. you need to find the mutual capacitance
>> of the crystal wich is hard to find man specs wich tel you this but
>> it is often something like 14ff for example.
>> (0.014pf) you can then work out the eqv series inductance for it to
>> resonate with the std load wich may be 20pf.
>>
>> you can then work out what inductance the crystal will apear to have
>> at the frequency you want. and hence the series capacitance you need.
>> you might find the inductance is so high that you need less than 1pf
>> or it has become capacitive.
>
> Cool, a way to figure out just how high you can pull it and how to attain
> a certain frequency. I'll probably stick to tinkering though. ;-)
> Thanks allot for the detailed explanation. :-)

The pulling range is usually equal to the motional capcitance over the
crystal self capacitance, so for 14ff and 20pf this gives 700ppm, but
actually at this extreme its unusable in this circuit as its required to be
inductive.

as said by some1 else the farther you pull it the worse the performance.

Colin =^.^=

From -6093290836040624634
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!newshub.stanford.edu!sn-xt-sjc-02!sn-xt-sjc-10!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough

Date: Wed, 14 Mar 2007 16:23:59 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vgpvi9kae7r03@news.supernews.com>
References: <12vdm9fk86gbr98@news.supernews.com>
<1173894424.729782.24000@d57g2000hsg.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 37
Xref: g2news1.google.com rec.radio.amateur.homebrew:12613
sci.electronics.basics:47649 sci.electronics.design:206493

cs_posting@hotmail.com wrote:
> On Mar 13, 12:02 pm, "Anthony Fremont" <spam-...@nowhere.com> wrote:
>
>> I believe this is direct conversion and that the crystal should
>> exactly match the desired station (3581kHz) I want to recieve,
>> that's right isn't it? Maybe this is close enough? I have to wait
>> til tonight to see if I can actually hear anything.
>
> Depends on what sort of signal you are trying to receive.
>
> To receive a single our double sideband signal (or, in a very touchy
> way, an AM one), you want your direct conversion receiver's local
> oscillator exactly on the transmitter frequency.
>
> But to receive a CW signal, you want your local oscillator 700 Hz or
> so above or below the transmit frequency. That will cause you to hear
> a 700 Hz audio tone for the CW.
>
> Unless I'm mistaken, 3.581 MHz is in the CW portion of the 80 meter
> band.

It is, I mistakenly thought they did the 80 meter voice announcement down
there. The voice bulletin is actually on 3990kHz.

Since I have most of what I need (tuning caps, vernier and toroids/wire) I
started looking around at different VFO circuits. I'm trying to find
something that will span from 3500 to 4000kHz and still be fairly simple. I
could then inject this into pin 6 of the 602 and be done with it. :-)

> If you can get to 1 KHz below the transmitter, you should be able to
> copy CW as 1KHz audio. If you can only get to 1.5 KHz below, you'll
> get 1.5 KHz audio... not ideal listening, but probably workable.

Right. I was hoping to be able to "get on the other side" of the signal to
have a second chance at avoiding possible QRM.

From -6583690840288743696
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.germany.com!newsfeed.freenet.de!
news.tiscali.de!tiscali!newsfeed1.ip.tiscali.net!proxad.net!exabot.com!freenix!sn-
xt-sjc-05!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-
mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Wed, 14 Mar 2007 16:28:09 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vgq7c6bskpr7d@news.supernews.com>
References: <12vdm9fk86gbr98@news.supernews.com>
<ebFJh.18554$j7.368943@news.indigo.ie>   <12veb8176c9ed7@news.supernews.com>
<2gqev2lgj47683bgks9jkeqe1smb0k896e@4ax.com>   <9RRJh.198$pP5.129@newsfe3-
gui.ntli.net>   <12vfsjje4rdv8d@news.supernews.com>
<oaWJh.1962$B37.1473@newsfe2-win.ntli.net>   <12vgn1i8cj8bo4d@news.supernews.com>
<1173905309.710951.56940@n76g2000hsh.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 13
Xref: g2news1.google.com rec.radio.amateur.homebrew:12614
sci.electronics.basics:47650 sci.electronics.design:206496

cs_posting@hotmail.com wrote:
> On Mar 14, 3:33 pm, "Anthony Fremont" <spam-...@nowhere.com> wrote:
>
>>> what freq you need ?
>>
>> 3581.5kHz to zero beat with the desired signal.
>
> But why do you want to zero beat?

For CW I don't, but I would want to be able to get on the other side for QRM
reasons.

From 4095186739960606935
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99

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X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n76g2000hsh.googlegroups.com!not-for-
mail
From: cs_posting@hotmail.com
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: 14 Mar 2007 14:35:24 -0700
Organization: http://groups.google.com
Lines: 28
Message-ID: <1173908124.518232.189080@n76g2000hsh.googlegroups.com>
References: <12vdm9fk86gbr98@news.supernews.com>
   <1173894424.729782.24000@d57g2000hsg.googlegroups.com>
   <12vgpvi9kae7r03@news.supernews.com>
NNTP-Posting-Host: 208.44.68.190
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173908126 19698 127.0.0.1 (14 Mar 2007 21:35:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 14 Mar 2007 21:35:26 +0000 (UTC)
In-Reply-To: <12vgpvi9kae7r03@news.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.6)
Gecko/20060728 Firefox/1.5.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n76g2000hsh.googlegroups.com; posting-host=208.44.68.190;
   posting-account=eJWpAgwAAAA6NSvVMPW-24TZytfy8oL2
Xref: g2news1.google.com rec.radio.amateur.homebrew:12615
sci.electronics.basics:47655 sci.electronics.design:206497
```

On Mar 14, 4:23 pm, "Anthony Fremont" <spam-...@nowhere.com> wrote:

> > If you can get to 1 KHz below the transmitter, you should be able to
> > copy CW as 1KHz audio. If you can only get to 1.5 KHz below, you'll
> > get 1.5 KHz audio... not ideal listening, but probably workable.
>
> Right. I was hoping to be able to "get on the other side" of the signal to
> have a second chance at avoiding possible QRM.

My guess is the project's original author hadn't planned on that...
most likely, they'd planned on rubbering the crystal only far enough
to get a reasonable audio tone from the RF-LO combination.

Obviously you can get more range out of a VFO, though building nice
VFO's isn't simple.

Even the tuning caps can be a pain. I spent a while as a teenager
knocking alternate plates out of old 365 pf AM broadcast caps to try
to make some suitable for 40 meters - or you can use a series
capacitor. Beware hand capacitance when you go to tune it. Today,
varacter tuning is another option - stable regulated supply and a
multi-turn pot.

Another thing you might do is google the "poundshop" (dollar store) receiver projects. Those are little KHz-IF varactor tuned auto-scanning FM radios that people have been modifying into direct conversion ham band receivers.

From -7236881472546244680
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.germany.com!newsfeed01.sul.t-online.de!newsfeed00.sul.t-online.de!t-online.de!tiscali!newsfeed1.ip.tiscali.net!proxad.net!news.cs.univ-paris8.fr!feeder.news.heanet.ie!news.indigo.ie!not-for-mail
From: Eamon Skelton <Xnospam@oceanfree.net>
Subject: Re: VCXO frequency isn't high enough
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
References: <12vdm9fk86gbr98@news.supernews.com>
     <QdqdnQy2X9cwm2rYnZ2dnUVZ_u6rnZ2d@comcast.com>
     <12vfhqv5i9d7a4b@news.supernews.com>
User-Agent: pan 0.119 (Karma Hunters)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 13
Message-ID: <KXZJh.18573$j7.369048@news.indigo.ie>
Date: Wed, 14 Mar 2007 21:38:50 GMT
NNTP-Posting-Host: 86.41.146.104
X-Complaints-To: abuse@eircom.net
X-Trace: news.indigo.ie 1173908330 86.41.146.104 (Wed, 14 Mar 2007 21:38:50 GMT)
NNTP-Posting-Date: Wed, 14 Mar 2007 21:38:50 GMT
Organization: Eircom.Net http://www.eircom.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:12616 sci.electronics.basics:47656 sci.electronics.design:206499

On Wed, 14 Mar 2007 04:58:52 -0500, Anthony Fremont wrote:

> I guess I'm at the limits of that particular crystal.

I think you are getting close to the limits :-) You might get a few Hz more by reducing the value of the 2 100pF capacitors. Try another crystal or a ceramic resonator.

73, Ed. EI9GQ.

--
Linux 2.6.18
Remove 'X' to reply by E-Mail

```
From -3474299978356652462
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newshub.stanford.edu!sn-xt-sjc-02!sn-xt-
sjc-07!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Wed, 14 Mar 2007 16:53:30 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vgrmu4fn0ia90@news.supernews.com>
References: <12vdm9fk86gbr98@news.supernews.com>
<ebFJh.18554$j7.368943@news.indigo.ie> <12veb8176c9ed7@news.supernews.com>
<2gqev2lgj47683bgks9jkeqe1smb0k896e@4ax.com> <9RRJh.198$pP5.129@newsfe3-
gui.ntli.net> <12vfsjje4rdv8d@news.supernews.com> <oaWJh.1962$B37.1473@newsfe2-
win.ntli.net> <12vgn1i8cj8bo4d@news.supernews.com> <YuZJh.904$pP5.865@newsfe3-
gui.ntli.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 130
Xref: g2news1.google.com rec.radio.amateur.homebrew:12617
sci.electronics.basics:47660 sci.electronics.design:206502

colin wrote:
> "Anthony Fremont" <spam-not@nowhere.com> wrote in message
> news:12vgn1i8cj8bo4d@news.supernews.com...
>> colin wrote:
>>> "Anthony Fremont" <spam-not@nowhere.com> wrote in message
>>> news:12vfsjje4rdv8d@news.supernews.com...
>>>> colin wrote:
>>>>
>>>>> Its only a pull of ~100ppm, this should be easily pullable for
>>>>> most fundamental xtals.
>>>>
>>>> I'd like to get close to 500ppm if possible.
>>>
>>> do you need that much ?
>>
>> I "need" an increase of about .0546%.  Isn't that about 546ppm?
>>
>>> what freq you need ?
>>
>> 3581.5kHz to zero beat with the desired signal.
```

>>
>>> whats the colourburst crystal freq ?
>>
>> 3579.545kHz.
>
> aha ok, thats a fair bit, but maybe within range, as as been said at a
> certain frequency the crystal becomes a complete open circuit.

I didn't design it, but allot of folks seem to have had success with getting
it working. Like one poster said, I'm already within range to copy the
signal, but it would be about 1.5kHz. That's a tad high in pitch for my
taste. I was hoping to be able to get to the other side of zero beat, but
perhaps that was wishful thinking on my part. I've managed to get it 500Hz
higher than the marked frequency so I should probably be happy with that.
After all it's a crystal and it was designed to be operated well within
50ppm of its marked freq.

>>>>> ofc if the tolerenace all add up against you you might find it
>>>>> hard. I would also try reduce the 100pf caps on the sa602 too.
>>>>> 100pf is higher than most crystals I use would like,
>>>>> 50pf or 20pf or if youve got some spare trimmers ...
>>>>> you can adjust the ratio too, say just reduce the one accross pin
>>>>> 6-7
>>>>
>>>> I figured that they were voltage dividers to set the amount of
>>>> feedback, but I can certainly see how they could have an effect.
>>>> Since I'm close to where I need to be, I will try a couple of 33pF
>>>> caps to see what happens.
>>>
>>> no they are involved in setting the frequency too,
>>> in order for you circuit to work it needs to resonate,
>>> with the 2 100pf the input where the crystal is looks like a
>>> capacitor with some negative impedance,
>>> the circuit with your crystal, inductor, and trimmer must be
>>> inductive, it then forms a resonant ciruit with the capacitance of
>>> the input.
>>> usualy the crystal would just be operated so that it looks
>>> inductive.
>>
>> Ok, I had to read that a few times to get it. A period between
>> ".....100pf" and "the input..." there would have been quite helpful.
>> ;-)
>
> Yeah I kinda got lost in my own explanation myself. didnt have much
> time to explain.

Don't get me wrong, I appreciate the information.

>>> the negative part of the input impedance must be stronger than the
>>> loss in the tuned circuit.
>>> this is affected by the ratio of the 2 100pf capacitors.
>>

>> So they do act like a voltage divider of sorts and shunt some of the
>> oscillator output to ground and some back to the input.
>
> this circuit is an emiter folower wich has no voltage gain,
> so actually they operate in the opposite way wich is kinda confusing
> but let me explain ...
> consider a typical tuned circuit with LC and a tap in the L,
> driving the circuit at the tap acts as a step up,
> but the crystal is the inductor wich make it difficult to put a tap
> here, but at resonance the 2 capacitors can act in the same way and
> provide a voltage step up.
>
> but you can see there is a curent loop involving all these components
> in series,
> this is what sets the frequency.
>
>
> If you decrease the capacitor accross the 2 pins of the ic this will
> increase the voltage accros it and so give more drive, as wel as
> increase the frequency.
>
> another way to look at it is if you consider that ground is at the
> base then the capacitors are in fact a voltage divider wich feed into
> the emiter of a comon base amplifier.
>
>>> a crystal can apear to be a very high inductance at resonance,
>>> at the point where you want to operate it probably has very high
>>> inductance indeed.
>>> you can determnine the eqv inductance by using the equivalent
>>> internal inductance and capacitance. you need to find the mutual
>>> capacitance of the crystal wich is hard to find man specs wich tel
>>> you this but it is often something like 14ff for example.
>>> (0.014pf) you can then work out the eqv series inductance for it to
>>> resonate with the std load wich may be 20pf.
>>>
>>> you can then work out what inductance the crystal will apear to have
>>> at the frequency you want. and hence the series capacitance you
>>> need. you might find the inductance is so high that you need less
>>> than 1pf or it has become capacitive.
>>
>> Cool, a way to figure out just how high you can pull it and how to
>> attain a certain frequency. I'll probably stick to tinkering
>> though. ;-) Thanks allot for the detailed explanation. :-)
>
> The pulling range is usually equal to the motional capcitance over the
> crystal self capacitance, so for 14ff and 20pf this gives 700ppm, but
> actually at this extreme its unusable in this circuit as its required
> to be inductive.
>
> as said by some1 else the farther you pull it the worse the
> performance.

Thanks again for the info. I think I'll go tinker with it a bit. My new

scope shippped yesterday and it will be here tomorrow, yaaaayyyyyy.
;-)

From -4427050114872947503
X-Google-Thread: fc2a5,7df6c49a19c050da
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newshub.stanford.edu!sn-xt-sjc-03!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Chris Jones <lugnut808@nospam.yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Old microwave
Date: Wed, 14 Mar 2007 22:18:25 +0000
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vgt5ite5so564@corp.supernews.com>
References: <69f3a$45f74f17$d066b697$3793@FUSE.NET>
User-Agent: KNode/0.7.7
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Complaints-To: abuse@supernews.com
Lines: 32
Xref: g2news1.google.com rec.radio.amateur.homebrew:12618

jawod wrote:

> I have an old kitchen microwave unit whose only fault is that the
> digital readout is broken. As a neophyte homebrew guy (kits only so
> far...Elecraft K2, etc), Is there anything worth salvaging from this unit?
>
> Thanks!
>
> John
> AB8O

It's definitely worth keeping the transformer if you have space to store it, some people make spot-welders or arc welders from several microwave oven transformers, by removing the secondary winding and winding on a new one.

I can't think of many sane uses for the intact magnetron but perhaps there are some, given sufficient safety precautions.

I would strongly advise against applying power to the transformer with the existing secondary winding in place, unless you can be *completely* certain that you won't get a shock (e.g. all components and wiring should be inside an earthed metal box). Those transformers will arc through clothing, will provide more than enough current to kill you without blowing the fuse, and the primary to secondary isolation means that earth-leakage circuit breakers (also called residual current circuit breakers) will not protect you. I certainly don't mean to discourage you from using the parts from

the oven but that is one appliance that really could kill you so just be
careful.

Chris

```
From -3664388943675797861
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.glorb.com!peer1.news.newnet.co.uk!
194.159.246.34.MISMATCH!peer-uk.news.demon.net!kibo.news.demon.net!
news.demon.co.uk!demon!g3ohx.demon.co.uk!IanJacksonRemoveThisBit
From: Ian Jackson <IanJacksonRemoveThisBit@g3ohx.demon.co.uk>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Wed, 14 Mar 2007 23:08:06 +0000
Lines: 134
Message-ID: <BnWjBrEWBI+FFw8P@g3ohx.demon.co.uk>
References: <12vdm9fk86gbr98@news.supernews.com>
 <1173875872.602199.152140@d57g2000hsg.googlegroups.com>
Reply-To: Ian Jackson <IanJackson@REMOVE-THIS-BITg3ohx.demon.co.uk>
NNTP-Posting-Host: g3ohx.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1173913700 2734 80.176.138.122 (14 Mar 2007 23:08:20
GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Wed, 14 Mar 2007 23:08:20 +0000 (UTC)
User-Agent: Turnpike/6.02-S (<TJ0VKlySlxi7kGP8bkzInRG7RW>)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12619
sci.electronics.basics:47664 sci.electronics.design:206524
```

In message <1173875872.602199.152140@d57g2000hsg.googlegroups.com>,
skavanagh72nospam@yahoo.ca writes
>On Mar 13, 12:02 pm, "Anthony Fremont" <spam-...@nowhere.com> wrote:
>> Hello all,
>
>> I was playing around and saw that my junk box had all the parts so I started
>> tossing this together:http://newenglandqrp.org/files/w1aw-receiver.jpg
>> The problem is (well I think it's a problem) is that I'm all the way down to
>> a 10pF cap for the crystal trimmer and the highest frequency I can get out
>> of it is still less than 3580kHz. Pleae correct me if I'm wrong, but I'm
>> thinking that the 20uH inductor is supposed to pull the colorburst crystal
>> high in frequency
>
>The inductor will pull the crystal down in frequency, as others have
>suggested.

>
> In fact it is extremely difficult to pull a crystal's series resonance up in frequency more than a few Hz. This is because the crystal's parallel resonance is just above its series resonance. If you put a capacitor in series with the crystal the series resonant frequency goes up...BUT...if you approach the parallel resonant frequency you can no longer get a low impedance resonance condition since the crystal's parallel resonance makes the crystal look like an open circuit, regardless of what you put in series with it.
>
> If you want to understand this better, try to find a reference with a good discussion of the equivalent circuit of the quartz crystal resonator. the only one I know of at present is Kenneth K. Clarke and Donald T. Hess, Communication Circuits: Analysis and Design, Addison-Wesley Publishing Co., 1971. It may be a bit hard to find outside a good university library.
>
> As Ian Jackson suggested a parallel inductor might work....this modifies the parallel resonance. Ian..is there a schematic available for that ? I'd be interested in what actually worked.
>
> Steve
>

I'll try and draw what I have in mind, and post it in alt.binaries.schematics.electronic. However, in the meantime, let me try and explain. The explanation may not be absolutely 100% complete, or even 100% correct, but it may help in moving a crystal more HF than it wants to go. Sorry that it's a bit rambling!

In Anthony's circuit (http://newenglandqrp.org/files/w1aw-receiver.jpg), the crystal will probably be functioning as a series-tuned circuit.

As Steve has stated, a crystal suddenly goes into parallel resonance just HF of its series resonance. This limits how far the series resonance can be pulled HF by the addition of a series trimmer capacitor. However, if this parallel resonance can be removed (or moved further HF), it should be possible to move the crystal further HF. The technique described certainly does work with VHF overtone crystals (between 50 and 200MHz), but should also work with HF crystals working on their fundamental frequencies.

A crystal is a mechanical device, but can be represented as being a series-tuned L-C circuit. (Call these L1 and C1.) Also, across the two is a parallel C (C2). Forget about losses (represented by a resistor). [Note: L1 and C1 are not actual electrical components, and only appear to have these values at or near to the L1-C1 resonant frequency. However, C2 essentially is a physical electrical capacitor consisting of the plating on each face of the crystal, with the crystal as the dielectric between.]

L1 is very large (possibly 1H or more, depending on the frequency). C1 is very small (say only a few pF or even a fraction of a pF - again depending on the crystal frequency). [So adding a relatively large series trimmer capacitor has very little effect on the frequency.] C2 is typically around 5pF, regardless of frequency.

Imagine doing a test where you look at the resonant frequency of a crystal, using a signal generator. This feeds an RF signal through a crystal, into a 50 ohm load. You measure throughput of the crystal by measuring the voltage across the load.

Swing the sig gen frequency slowly from LF to HF, through the resonant frequency of L1-C1. [Let's forget about C2 for the moment.] Below the resonant frequency of L1-C1, the L1-C1 circuit acts like a small capacitor, so there is very little throughput. Above the series resonant frequency of L1-C1, the L1-C1 circuit acts like a large inductor, so again there is very little throughput. However, when you hit the series resonance of L1 and C1 (F1), reactance of L1 and C1 cancel. The crystal acts like a short-circuit (or nearly so) and there is a large throughput. Because the L-C ratio is very high, the resonance peak is very sharp.

The effect of C2 across the L1-C1 circuit is to produce a second (parallel) resonant circuit. VERY slightly HF of the L1-C1 resonance, C2 resonates with effective inductance of the L1-C1 circuit. This produces a parallel resonant circuit (F2). Another way of looking at it is that L1 resonates with the series combination of C1 and C2 (so F2 must be higher than F1). The parallel resonance is, of course, a high impedance, where there is almost no throughput through the crystal.

As a result of this double resonance, the crystal acts as a series-tuned circuit at F1 (one you want), and a parallel-tuned circuit at F2. The transition between the two is very sudden. The frequency response peak of the throughput is very lopsided, and gets chopped off suddenly on the HF side.

The difference between F1 and F2 is very small (a few Hz to a few kHz, depending on the frequency and type of the crystal). If F1 is lower than you want, and you add an external series trimmer capacitor to try and pull the crystal L1-C1 series resonance HF, you effectively hit a brick wall with the parallel resonance at F2. The parallel resonance will block any throughput at (or near) this frequency.

A possible solution is to neutralize C2.
[Note: Neutralization is a technique sometimes required when using VHF crystals, as C2 may be large enough to allow the oscillator to free-run, instead of being locked to the frequency of L1-C1. However, it may also be used with advantage, as described below.]
You can neutralize C2 by adding an inductor across the crystal (ie in parallel with C2). The value required is that which parallel-resonates with C2 at the crystal frequency. In effect, C2 no longer exists. With C2 neutralized, there is no longer a sudden transition from the wanted series resonance F1 to the unwanted parallel resonance F2. The peak the response curve of the throughput of the crystal (at F1) is now nice and symmetrical, without the sudden cutoff at F2. In practice, the actual F1

peak will probably be somewhat more HF than before, and the crystal should be more pullable with a series capacitor.

Finally, if you reduce the value of the inductor so that its resonance with C2 is somewhat higher than the crystal frequency, this tends to pull the F1 resonance peak even higher in frequency. However, if you overdo this, the oscillation will probably unlock from the crystal, and start to free-run.

As I said, sorry for the ramble.
Ian.
--

From 6113221199259123366
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
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From: Ian Jackson <IanJacksonRemoveThisBit@g3ohx.demon.co.uk>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Wed, 14 Mar 2007 23:12:38 +0000
Lines: 25
Message-ID: <dnakBIFmFI+FFw$D@g3ohx.demon.co.uk>
References: <12vdm9fk86gbr98@news.supernews.com>
 <1173875872.602199.152140@d57g2000hsg.googlegroups.com>
 <12vfthpqueljv7a@news.supernews.com> <12vfuu8q15l1q57@news.supernews.com>
Reply-To: Ian Jackson <IanJackson@REMOVE-THIS-BITg3ohx.demon.co.uk>
NNTP-Posting-Host: g3ohx.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1173913962 2873 80.176.138.122 (14 Mar 2007 23:12:42 GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Wed, 14 Mar 2007 23:12:42 +0000 (UTC)
User-Agent: Turnpike/6.02-S (<TJ0VKlySlxi7kGP8bkzInRG7RW>)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12620 sci.electronics.basics:47665 sci.electronics.design:206527

In message <12vfuu8q15l1q57@news.supernews.com>, Anthony Fremont <spam-not@nowhere.com> writes
>Anthony Fremont wrote:
>
>> Doodling with reactance formulas, it appears that 20uH (coincidence?)
>> would offset 100pF of capacitance fairly well by having a an opposing
>> reactance (well resistance at this point) of about 450 Ohms at

>
>s/.well resistance at this point.//
>It's just inductive reactance, I need more coffee. ;-)
>
>> 3581kHz, the same as 100pF. I'll try putting the coil I made in
>> parallel and see what happens. Hopefully it won't short the
>> oscillator and kill my 15 year old NE602, I only have two spares.
>
>Should I be afraid to do this? Does it need something to block DC current?
>
>

If you do try an inductor across the crystal, make sure that you still
do have a DC blocking capacitor somewhere in the path to ground (as
provided by the existing C2 trimmer).
Ian.
--

From -5863863825742098046
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-05!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Wed, 14 Mar 2007 18:40:56 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vh20ce6q8sr48@news.supernews.com>
References: <12vdm9fk86gbr98@news.supernews.com>
<1173875872.602199.152140@d57g2000hsg.googlegroups.com>
<BnWjBrEWBI+FFw8P@g3ohx.demon.co.uk>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 158
Xref: g2news1.google.com rec.radio.amateur.homebrew:12621
sci.electronics.basics:47669 sci.electronics.design:206535

Ian Jackson wrote:
> In message <1173875872.602199.152140@d57g2000hsg.googlegroups.com>,
> skavanagh72nospam@yahoo.ca writes
>> On Mar 13, 12:02 pm, "Anthony Fremont" <spam-...@nowhere.com> wrote:
>>> Hello all,

>>
>>> I was playing around and saw that my junk box had all the parts so
>>> I started tossing this
>>> together:http://newenglandqrp.org/files/w1aw-receiver.jpg The problem is
>>> (well I think it's a problem) is that I'm all the
>>> way down to a 10pF cap for the crystal trimmer and the highest
>>> frequency I can get out of it is still less than 3580kHz. Pleae
>>> correct me if I'm wrong, but I'm thinking that the 20uH inductor is
>>> supposed to pull the colorburst crystal high in frequency
>>
>> The inductor will pull the crystal down in frequency, as others have
>> suggested.
>>
>> In fact it is extremely difficult to pull a crystal's series
>> resonance up in frequency more than a few Hz. This is because the
>> crystal's parallel resonance is just above its series resonance. If
>> you put a capacitor in series with the crystal the series resonant
>> frequency goes up...BUT...if you approach the parallel resonant
>> frequency you can no longer get a low impedance resonance condition
>> since the crystal's parallel resonance makes the crystal look like
>> an open circuit, regardless of what you put in series with it.
>>
>> If you want to understand this better, try to find a reference with a
>> good discussion of the equivalent circuit of the quartz crystal
>> resonator. the only one I know of at present is Kenneth K. Clarke
>> and Donald T. Hess, Communication Circuits: Analysis and Design,
>> Addison- Wesley Publishing Co., 1971. It may be a bit hard to find
>> outside a good university library.
>>
>> As Ian Jackson suggested a parallel inductor might work....this
>> modifies the parallel resonance. Ian..is there a schematic available
>> for that ? I'd be interested in what actually worked.
>>
>> Steve
>>
>
> I'll try and draw what I have in mind, and post it in
> alt.binaries.schematics.electronic. However, in the meantime, let me
> try and explain. The explanation may not be absolutely 100% complete,
> or even 100% correct, but it may help in moving a crystal more HF
> than it wants to go. Sorry that it's a bit rambling!
>
> In Anthony's circuit
> (http://newenglandqrp.org/files/w1aw-receiver.jpg), the crystal will
> probably be functioning as a series-tuned circuit.
> As Steve has stated, a crystal suddenly goes into parallel resonance
> just HF of its series resonance. This limits how far the series
> resonance can be pulled HF by the addition of a series trimmer
> capacitor. However, if this parallel resonance can be removed (or
> moved further HF), it should be possible to move the crystal further
> HF. The technique described certainly does work with VHF overtone
> crystals (between 50 and 200MHz), but should also work with HF
> crystals working on their fundamental frequencies.

>
> A crystal is a mechanical device, but can be represented as being a
> series-tuned L-C circuit. (Call these L1 and C1.) Also, across the two
> is a parallel C (C2). Forget about losses (represented by a resistor).
> [Note: L1 and C1 are not actual electrical components, and only appear
> to have these values at or near to the L1-C1 resonant frequency.
> However, C2 essentially is a physical electrical capacitor consisting
> of the plating on each face of the crystal, with the crystal as the
> dielectric between.]
>
> L1 is very large (possibly 1H or more, depending on the frequency). C1
> is very small (say only a few pF or even a fraction of a pF - again
> depending on the crystal frequency). [So adding a relatively large
> series trimmer capacitor has very little effect on the frequency.] C2
> is typically around 5pF, regardless of frequency.
>
> Imagine doing a test where you look at the resonant frequency of a
> crystal, using a signal generator. This feeds an RF signal through a
> crystal, into a 50 ohm load. You measure throughput of the crystal by
> measuring the voltage across the load.
>
> Swing the sig gen frequency slowly from LF to HF, through the resonant
> frequency of L1-C1. [Let's forget about C2 for the moment.] Below the
> resonant frequency of L1-C1, the L1-C1 circuit acts like a small
> capacitor, so there is very little throughput. Above the series
> resonant frequency of L1-C1, the L1-C1 circuit acts like a large
> inductor, so again there is very little throughput. However, when you
> hit the series resonance of L1 and C1 (F1), reactance of L1 and C1
> cancel. The crystal acts like a short-circuit (or nearly so) and
> there is a large throughput. Because the L-C ratio is very high, the
> resonance peak is very sharp.
>
> The effect of C2 across the L1-C1 circuit is to produce a second
> (parallel) resonant circuit. VERY slightly HF of the L1-C1 resonance,
> C2 resonates with effective inductance of the L1-C1 circuit. This
> produces a parallel resonant circuit (F2). Another way of looking at
> it is that L1 resonates with the series combination of C1 and C2 (so
> F2 must be higher than F1). The parallel resonance is, of course, a
> high impedance, where there is almost no throughput through the
> crystal.
> As a result of this double resonance, the crystal acts as a
> series-tuned circuit at F1 (one you want), and a parallel-tuned
> circuit at F2. The transition between the two is very sudden. The
> frequency response peak of the throughput is very lopsided, and gets
> chopped off suddenly on the HF side.
>
> The difference between F1 and F2 is very small (a few Hz to a few kHz,
> depending on the frequency and type of the crystal). If F1 is lower
> than you want, and you add an external series trimmer capacitor to
> try and pull the crystal L1-C1 series resonance HF, you effectively
> hit a brick wall with the parallel resonance at F2. The parallel
> resonance will block any throughput at (or near) this frequency.
>

> A possible solution is to neutralize C2.
> [Note: Neutralization is a technique sometimes required when using VHF crystals, as C2 may be large enough to allow the oscillator to free-run, instead of being locked to the frequency of L1-C1. However, it may also be used with advantage, as described below.]
> You can neutralize C2 by adding an inductor across the crystal (ie in parallel with C2). The value required is that which parallel-resonates with C2 at the crystal frequency. In effect, C2 no longer exists. With C2 neutralized, there is no longer a sudden transition from the wanted series resonance F1 to the unwanted parallel resonance F2. The peak the response curve of the throughput of the crystal (at F1) is now nice and symmetrical, without the sudden cutoff at F2. In practice, the actual F1 peak will probably be somewhat more HF than before, and the crystal should be more pullable with a series capacitor.
>
> Finally, if you reduce the value of the inductor so that its resonance with C2 is somewhat higher than the crystal frequency, this tends to pull the F1 resonance peak even higher in frequency. However, if you overdo this, the oscillation will probably unlock from the crystal, and start to free-run.
>
> As I said, sorry for the ramble.
> Ian.

OMG are you kidding, don't be sorry. Thank you way so much!!! :-))) You should set your clock to way in the future and repost that message so it sticks around for a while. ;-)

So to make a long story short I need to put an inductor of roughly 400uH across the crystal to cancel the 5pF of C2.   Wow that's a ton of inductance, but about 27 turns on a FT50-43 ferrite torroid ought to do it. I'll let you know how that works out. I found another crystal, unfortunately it's identical and possibly from the same batch. I haven't tried it yet, but I'm not expecting any miracles. I'm tired of burning my fingers unsoldering parts, so I'm goint to tinker on the breadboard with another 602 set up just for the oscillator testing with capacitor changes. I will apply the new coil to the soldered up version though.

The receiver hears, as we just had a storm earlier and I could hear lightning crashes in the distance. In my narrow tuning range, I can hear what is likely the carrier of a broadcaster too, or maybe my TV. Later tonight when the band opens up some more, I should hear something from W1AW hopefully.

Thanks again

From 2941154721619732887
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!b1a104da!not-for-mail
Message-ID: <45F8A06B.44D85A82@earthlink.net>
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Reply-To: mike.terrell@earthlink.net
Organization: http://home.earthlink.net/~mike.terrell/
X-Mailer: Mozilla 4.76 [en] (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
<vtf5v25f1ba9s9u0tvdk02jehqtld9d1i4@4ax.com> <icabc4-m1h.ln1@remote.clifto.com>
<Wa2dnZxpQpvWYG_YnZ2dnUVZ_tninZ2d@bright.net>
<esv34q$24t$1@registered.motzarella.org> <mokbc4-f0i.ln1@remote.clifto.com>
<45F63D77.9C09CCD3@earthlink.net> <p2GJh.45$j86.30@newsfe02.lga>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 19
Date: Thu, 15 Mar 2007 01:24:55 GMT
NNTP-Posting-Host: 24.110.34.161
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1173921895 24.110.34.161 (Wed, 14 Mar
2007 17:24:55 PST)
NNTP-Posting-Date: Wed, 14 Mar 2007 17:24:55 PST
Xref: g2news1.google.com rec.radio.amateur.homebrew:12622
sci.electronics.design:206558

Jamie wrote:
>
> Michael A. Terrell wrote:
> >
> >    They don't make the blue blades anymore.
> >
> Hmm. i was going to say, if it worked, it would be cutting edge
> technology! :)


   It was, a millennium ago.

--
Service to my country? Been there, Done that, and I've got my DD214 to
prove it.
Member of DAV #85.

Michael A. Terrell
Central Florida


From -7250934309936675502
X-Google-Thread: fc2a5,318fb3bc23ccaa99
```

X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-05!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Wed, 14 Mar 2007 21:20:54 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vhbc9l9p6j07b@news.supernews.com>
References: <12vdm9fk86gbr98@news.supernews.com>
<1173894424.729782.24000@d57g2000hsg.googlegroups.com>
<12vgpvi9kae7r03@news.supernews.com>
<1173908124.518232.189080@n76g2000hsh.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 37
Xref: g2news1.google.com rec.radio.amateur.homebrew:12623
sci.electronics.basics:47673 sci.electronics.design:206572

cs_posting@hotmail.com wrote:
> On Mar 14, 4:23 pm, "Anthony Fremont" <spam-...@nowhere.com> wrote:
>
>>> If you can get to 1 KHz below the transmitter, you should be able to
>>> copy CW as 1KHz audio. If you can only get to 1.5 KHz below, you'll
>>> get 1.5 KHz audio... not ideal listening, but probably workable.
>>
>> Right. I was hoping to be able to "get on the other side" of the
>> signal to have a second chance at avoiding possible QRM.
>
> My guess is the project's original author hadn't planned on that...
> most likely, they'd planned on rubbering the crystal only far enough
> to get a reasonable audio tone from the RF-LO combination.

Yeah, I probably expect too much from it. On a side note, IT WORKS. I can
hear stations, but the noise (man made) is something awful. It really needs
a narrow audio filter.

> Obviously you can get more range out of a VFO, though building nice
> VFO's isn't simple.
>
> Even the tuning caps can be a pain. I spent a while as a teenager
> knocking alternate plates out of old 365 pf AM broadcast caps to try
> to make some suitable for 40 meters - or you can use a series
> capacitor. Beware hand capacitance when you go to tune it. Today,
> varacter tuning is another option - stable regulated supply and a

> multi-turn pot.
>
> Another thing you might do is google the "poundshop" (dollar store)
> receiver projects. Those are little KHz-IF varactor tuned auto-
> scanning FM radios that people have been modifying into direct
> conversion ham band receivers.

I found some stuff on those, the look pretty neat. I may have to head to
the dollar store and see what I can find. ;-)

```
From -8536557527314678612
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!newsfeed.vmunix.org!peer-uk.news.demon.net!kibo.news.demon.net!
news.demon.co.uk!demon!g3ohx.demon.co.uk!IanJacksonRemoveThisBit
From: Ian Jackson <IanJacksonRemoveThisBit@g3ohx.demon.co.uk>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Thu, 15 Mar 2007 08:11:57 +0000
Lines: 44
Message-ID: <7RwNs6AN$P+FFwJO@g3ohx.demon.co.uk>
References: <12vdm9fk86gbr98@news.supernews.com>
 <1173875872.602199.152140@d57g2000hsg.googlegroups.com>
 <BnWjBrEWBI+FFw8P@g3ohx.demon.co.uk> <12vh20ce6q8sr48@news.supernews.com>
Reply-To: Ian Jackson <IanJackson@REMOVE-THIS-BITg3ohx.demon.co.uk>
NNTP-Posting-Host: g3ohx.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1173946322 13193 80.176.138.122 (15 Mar 2007 08:12:02
GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Thu, 15 Mar 2007 08:12:02 +0000 (UTC)
User-Agent: Turnpike/6.02-S (<TJ0VKlySlxi7kGP8bkzInRG7RW>)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12624
sci.electronics.basics:47697 sci.electronics.design:206609
```

In message <12vh20ce6q8sr48@news.supernews.com>, Anthony Fremont
<spam-not@nowhere.com> writes
>Ian Jackson wrote:

>>
>> As I said, sorry for the ramble.
>> Ian.
>

>OMG are you kidding, don't be sorry. Thank you way so much!!! :-))) You should set your clock to way in the future and repost that message so it sticks around for a while. ;-)
>
>So to make a long story short I need to put an inductor of roughly 400uH across the crystal to cancel the 5pF of C2. Wow that's a ton of inductance, but about 27 turns on a FT50-43 ferrite torroid ought to do it. I'll let you know how that works out. I found another crystal, unfortunately it's identical and possibly from the same batch. I haven't tried it yet, but I'm not expecting any miracles. I'm tired of burning my fingers unsoldering parts, so I'm goint to tinker on the breadboard with another 602 set up just for the oscillator testing with capacitor changes. I will apply the new coil to the soldered up version though.
>
>The receiver hears, as we just had a storm earlier and I could hear lightning crashes in the distance. In my narrow tuning range, I can hear what is likely the carrier of a broadcaster too, or maybe my TV. Later tonight when the band opens up some more, I should hear something from W1AW hopefully.
>
>Thanks again
>
>

As you say, at around 3.5MHz, you will need a fairly large inductor to resonate with 5pF. An alternative might be to make a bridge circuit, where you actually use another (5pF) capacitor to balance out the unwanted 5pF. I used to use an extremely simple balancing circuit to make accurate measurements of the resonant frequencies and ESRs (equivalent series resistance) of VHF crystals, and it should be possible to use something similar in an oscillator. However, maybe someone out there can advise on a tried-and-tested circuit which will definitely work. [There's no point in re-inventing the wheel!]
Ian.
--

From -254480520818558041
X-Google-Thread: fc2a5,d095ee26342dab00,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!newssvr13.news.prodigy.net.POSTED!35cb456c!not-for-mail
From: "N9WOS" <N9WOS@nobug.sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Microwave magnetron as a rectifier diode.
Lines: 93
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Message-ID: <eE7Kh.5359$JZ3.3832@newssvr13.news.prodigy.net>
NNTP-Posting-Host: 66.72.68.89
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr13.news.prodigy.net 1173948042 ST000 66.72.68.89 (Thu, 15 Mar 2007 03:40:42 EST)
NNTP-Posting-Date: Thu, 15 Mar 2007 03:40:42 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
OXZAWU[DFB^UCWDYIBHZOWP@YZOZ@GXOXZYT]UEK@YUDUWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFNTINTDDMVW[X\THOPXZRVOCJTUTPC_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Thu, 15 Mar 2007 08:40:42 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:12625

The other thread got me thinking, so I pulled out some equipment to do a little test.

I looked through my stack of magnetrons to find the worst looking one for the experiment. I found one that I had pulled out of an old microwave that had been setting outside for a while. The outer case was heavily rusted to the point that it wasn't likely that I was ever going to use it as a replacement if I had a microwave that had a magnetron die in it. But the inner tube, and cooling fins was in good shape.

I made up a transformer with a secondary of 3.3V under load, to drive the filament. The filament current is about 12A. Total filament wattage is about 40W.

For testing applications, I used a 0 to 350V DC supply, with a maximum output of 200mA.

With magnets in place I could run the voltage up to 350V and only a few milliamps of current would flow. The needle on the meter of the field strength meter setting right by the antenna of the magnetron never moved. 350V is way to low for the electron stream to overcome the restraining force of the magnetic field, to allow anode current. Let alone generate enough radial electron velocity to start oscillations.

So, I took off the outer case off the magnetron tube assembly. I removed the two magnets. Then I hooked it up to the filament supply and checked it again. Without the magnets, it conducts a LOT more current at low voltages.

Here is the basic current voltage and plate dissipation readings.

50mA at 80V 4W
100mA at 134V 13.4W
150mA at 172V 25.8W
200mA at 220V 44W

Estimated 500mA voltage around 500V or 250W

Not quite as good as a 5U4 element.

But pretty close to the voltage drop you would see from a 5Y3 element.

With a PRV of well over 4KV. Probably easily 10KV. I don't have the equipment on had to see how high of a voltage it will take before it flashes over. The obvious limiting factor that I can see is the spacing between the filament terminals and the grounded case(plate) of the tube. With the tube I have, that is about 5/8 of an inch. The reference book I have shows the worst case breakdown situation(needle gap) to be about 20KV for that distance. Best case, about 40 KV. If the tube would flash over internally first, is something I don't know.

Power supplies based on two magnetrons with the above specs.

For a 2KV 200mA 400W supply.......
A full wave supply with a 2.2KV-0-2.2KV transformer driving two de-maged magnetrons driving a filter choke.
It would drop about 200V in the magnetrons.
Power loss would be 40Wfiliment plus 20W plate loss, for a total loss of 60W each.
Total losses would be 120W at full load. 80W at no load.
77% efficient at full load.

For a 4KV 200mA 800W supply.......
A full wave supply with a 4.2KV-0-4.2KV transformer driving two de-maged magnetrons driving a filter choke.
It would drop about 200V in the magnetrons.
Power loss would be 40Wfiliment plus 20W plate loss, for a total loss of 60W each.
Total losses would be 120W at full load. 80W at no load.
87% efficient at full load.

For a 4KV 500mA 2000Wsupply.
A full wave supply with a 4.5KV-0-4.5KV transformer driving two de-maged magnetrons driving a filter choke.
It would drop about 500V in the magnetrons.
Power loss would be 40Wfiliment plus 250W plate loss, for a total loss of 290W each.
Total losses would be 580W at full load. 80W at no load.
77.5% efficient at full load.

The largest supplies you could probably make is a 10KV 500mA 5,000W supply with two tubes and an efficiency of 90%.

Or a 20KV 500mA 10,000W full wave bridge supply, with four tubes, with and efficiency of around 90%

There is a couple lower wattage magnetrons I have, that have a filament current around 8A. The largest one has a filament current around 15A

The neat thing is, you can see the glow of the filament through the ceramic ring on the top of the tube. The ceramic ring gives of a light orange glow.

Hope people on the news group find this info interesting, if not useful.

```
From 5265253505270649607
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-
mail
NNTP-Posting-Date: Thu, 15 Mar 2007 06:55:20 -0500
From: John Fields <jfields@austininstruments.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Thu, 15 Mar 2007 06:55:18 -0500
Organization: Austin Instruments, Inc
Message-ID: <qtbiv21msb1cec7miag7ikpcqgo0essu0l@4ax.com>
References: <12vdm9fk86gbr98@news.supernews.com>   <4PGJh.141$GI.126@newsfe2-
gui.ntli.net> <1173841251.830064.140040@l77g2000hsb.googlegroups.com>
<12vfmvi8f8ha4dd@news.supernews.com>
X-Newsreader: Forte Agent 2.0/32.652
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 28
X-Trace: sv3-5B4jzR9dIqGMwh5u3mdakokLCaUI2v6IP1KMcKga4v9/
rOGz0V0ETd8RixS3NSdB3xImdHe1MgvdUTu!mH/
27vIzj2wRUX2A0KJlRSGwfLrKtnfDi768jRzeYBVNQpB5wb9ilz9t7fBB8kTugy9i0h9T
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12626
sci.electronics.basics:47711 sci.electronics.design:206648

On Wed, 14 Mar 2007 06:26:39 -0500, "Anthony Fremont"
<spam-not@nowhere.com> wrote:

>Arv wrote:
>
>> My W1AW receiver uses the crystal with just a 5-47 pf variable
>> capacitor...no inductor, and it nets right on frequency.  Try shorting
>
>Story of my life.  ;-)
>
>> the inductor and see if this gets you closer to the required
>> frequency.  Not all color burst crystals were created equal.    If you
```

>> have another crystal you might want to try it.
>
>That seems to be the common consensus. I suspect my crystal is just too
>good. ;-)
>
>> Your ferrite will not be saturating at the small amount of signal you
>> are sending through it as part of an SA-602 oscillator.
>
>Thanks, I know very little about these things.

Here's a good tutorial:

http://www.foxonline.com/techdata.htm
--
JF

```
From 6141192041223285017
X-Google-Thread: fc2a5,8e111c47ea73fb5f,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ARABIC,CP1256
Path: g2news1.google.com!postnews.google.com!p15g2000hsd.googlegroups.com!not-for-
mail
From: "noof3000sa@gmail.com" <noof3000sa@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: =?windows-1256?B?
KCgg1dzc3Nzm0SApKSAgxe3Rx+TtIO3d2uEgx+Hdx83UySDIx+HD2N3H4SAuLiDD5Nnc0eYg48cg38fkIM
zSx8Eg3drhyuU=?=
Date: 15 Mar 2007 09:01:41 -0700
Organization: http://groups.google.com
Lines: 6
Message-ID: <1173974501.106233.88610@p15g2000hsd.googlegroups.com>
NNTP-Posting-Host: 87.109.250.189
Mime-Version: 1.0
Content-Type: text/plain; charset="windows-1256"
Content-Transfer-Encoding: base64
X-Trace: posting.google.com 1173974502 30898 127.0.0.1 (15 Mar 2007 16:01:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 15 Mar 2007 16:01:42 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; Alexa
Toolbar; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p15g2000hsd.googlegroups.com; posting-host=87.109.250.189;
   posting-account=FPhgwA0AAAChWeVES6tRt08cNxb-SGeS
Xref: g2news1.google.com rec.radio.amateur.homebrew:12627
```

CigoINXc3Nzc5tEgKSkgxe3Rx+TtIO3d2uEgx+Hdx83UySDIx+HD2N3H4SAuLiDD5Nnc0eYg48cg
38fkIMzSx8EK3drhyuUKCmh0dHA6Ly93d3cuaGFtbXNzLmNvbS92Yi9zaG93dGhyZWFkLnBocD9w
PTE5NzIyMSNwb3N0MTk3MjIxCgoK483H3+PJIMfh3cfT3sfKIOPaINLIx8bk5eQgw+PH4yDH4czj
5ebRICjV5tEgKQoKaHR0cDovL3d3dy5oYW1tc3MuY29tL3ZiL3Nob3d0aHJlYWQucGhwP3Q9MTQz
MTQK

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From -3039127759894070029
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!newsfeed.arcor.de!feed.xsnews.nl!border-1.ams.xsnews.nl!sn-xt-ams-06!sn-
xt-ams-08!sn-ams!sn-feed-ams-01!sn-post-ams-01!sn-post-sjc-01!supernews.com!
news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Thu, 15 Mar 2007 11:29:07 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vit2nk5n81e14@news.supernews.com>
References: <12vdm9fk86gbr98@news.supernews.com>   <4PGJh.141$GI.126@newsfe2-
gui.ntli.net> <1173841251.830064.140040@l77g2000hsb.googlegroups.com>
<12vfmvi8f8ha4dd@news.supernews.com> <qtbiv21msb1cec7miag7ikpcqgo0essu0l@4ax.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 41
Xref: g2news1.google.com rec.radio.amateur.homebrew:12628
sci.electronics.basics:47734 sci.electronics.design:206731

John Fields wrote:
> On Wed, 14 Mar 2007 06:26:39 -0500, "Anthony Fremont"
> <spam-not@nowhere.com> wrote:
>
>> Arv wrote:
>>
>>> My W1AW receiver uses the crystal with just a 5-47 pf variable
>>> capacitor...no inductor, and it nets right on frequency.  Try
>>> shorting
>>
>> Story of my life.  ;-)
>>
>>> the inductor and see if this gets you closer to the required
>>> frequency.  Not all color burst crystals were created equal.    If
>>> you have another crystal you might want to try it.
>>
>> That seems to be the common consensus.  I suspect my crystal is just
>> too good. ;-)
>>
```

>>> Your ferrite will not be saturating at the small amount of signal
>>> you are sending through it as part of an SA-602 oscillator.
>>
>> Thanks, I know very little about these things.
>
> ---
> Here's a good tutorial:
>
> http://www.foxonline.com/techdata.htm

Thanks John. :-) I was referring to core saturation and when to suspect it/materials/etc, but I can sure stand to learn a few things more about crystals too. That's pretty good information in the link you posted. If anyone knows about crystals it should be Fox. ;-) I had never tried pulling one high before, only tweaking them down a little to get them on frequency. I can pull this one low several kcs without much of a problem other than stability, but it sure doesn't want to go any higher than about 500Hz above spec. I'm going try the parallel inductance trick to see if I can get the frequency higher, that should prove interesting. I like doing reality vs. theory experiments. ;-)

From 6519155239098815498
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Subject: Re: Detecting Ultrasound
From: chuck <nospam@nospam.org>
Date: Thu, 15 Mar 2007 12:34:54 -0500
Message-ID: <1173976600_39805@sp6iad.superfeed.net>
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
<lcf5v210tvuhb1th6k0ttdf0bodo44o9sj@4ax.com>
<1173871066.544376.91060@p15g2000hsd.googlegroups.com>
Lines: 41
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!newspeer1.nwr.nac.net!news-
out.newsgroups.com!sp6iad.superfeed.net!not-for-mail
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
X-Proxy-User: $$x38rj
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
In-Reply-To: <1173871066.544376.91060@p15g2000hsd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Report: Please report illegal or inappropriate use to <abuse@newsfeeds.com>.
Forward a copy of ALL headers INCLUDING the body. (DO NOT SEND ATTACHMENTS)
X-Comments2: IMPORTANT: Newsfeeds.com does not condone,support,nor tolerate spam
or any illegal or copyrighted postings.
X-Comments: This message was posted through Newsfeeds.com
Organization: Superfeed.net

```
Xref: g2news1.google.com rec.radio.amateur.homebrew:12629
sci.electronics.design:206734

Andrew VK3BFA wrote:

>>
>> Take a microphone with a frequency response > 30Khz, and an amplifer.
>> Monitor the amp's output with a scope. <bg>
>
> Agree. Even a bog standard electret for $1 will do it - probably
> wouldn't even need an amplifier......if you want to get sophisticated,
> put it in the end of a piece of 30mm plastic pipe - voila, directional
> microphone....
>
> The alternative is you are just being paranoid......but I know you
> know that anyway...
>
> Andrew VK3BFA.
>

Hello Andrew,

Do you know of any freq response curves on the web for the garden
variety electrets? I've looked and haven't found any.

Thanks,

Chuck NT3G
```

----== Posted via Newsfeeds.Com - Unlimited-Unrestricted-Secure Usenet News==----
http://www.newsfeeds.com The #1 Newsgroup Service in the World! 120,000+
Newsgroups
----= East and West-Coast Server Farms - Total Privacy via Encryption =----

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From -8096323277875914907
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 15 Mar 2007 11:51:04 -0500
Date: Thu, 15 Mar 2007 16:52:12 +0000
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/
20060910 SeaMonkey/1.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
<lcf5v210tvuhb1th6k0ttdf0bodo44o9sj@4ax.com>
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<1173871066.544376.91060@p15g2000hsd.googlegroups.com>
<1173976600_39805@sp6iad.superfeed.net>
In-Reply-To: <1173976600_39805@sp6iad.superfeed.net>
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Content-Transfer-Encoding: 7bit
Message-ID: <2dmdnSgnEYnk5GTYnZ2dnUVZ8sOonZ2d@pipex.net>
Lines: 15
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X-Trace: sv3-
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MGEuYtaToXYq3LZx4oBsXvCgaorEjw3uwCKqf04wujn+Wd8tVF0u98GxHLnrc6EsgsTx8NXDQlsI!
8cINJp7m7haLjs6a2wE6KBT5P9g=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12630
sci.electronics.design:206745

> Do you know of any freq response curves on the web for the garden
> variety electrets? I've looked and haven't found any.
====================
I found an Archer packaged (for Tandy)  cat no 270-092B  Electret
Condenser Mike Element in its original Package, complete with response
curve.
 From 30 - 3000 Hz the response is flat.
 From 3000 Hz to 5000 Hz the response increases by approx 10 dB.
 From 5000 - 9000 Hz the response drops such that it is back to its
original level at 9000 Hz .Above that freq the response drops.
Response curve is not extended beyond 12000 Hz



Frank    GM0CSZ / KN6WH


From -2453217464174861249
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.glorb.com!zen.net.uk!
dedekind.zen.co.uk!newsfeeder.wxs.nl!divide.nova.planet.nl!posting.nova.planet.nl!
not-for-mail
From: nico@puntnl.niks (Nico Coesel)
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
Date: Thu, 15 Mar 2007 18:50:08 GMT
Message-ID: <45f99554.2589658552@news.kpnplanet.nl>
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
X-Newsreader: Forte Free Agent 1.21/32.243
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Lines: 27
NNTP-Posting-Host: 81.207.51.66
X-Trace: 1173984613 news.kpnplanet.nl 19415 81.207.51.66:64288
X-Complaints-To: abuse@direct-adsl.nl
Xref: g2news1.google.com rec.radio.amateur.homebrew:12631
sci.electronics.design:206769

paul@burridge8333.fsbusiness.co.uk wrote:

>Hi chaps,
>
>I suspect a neighbour of a friend of mine is using an ultrasonic bird-
>scarer to frighten off his pets. The man concerned won=B4t admit to it,
>but there are times when his dog and two cats just seem to get
>suddenly very distressed and hypermanic for no apparent reason. I`d
>like to at least eliminate this possibility before considering any
>others. So the question is, what=B4s the simplest way to detect
>ultrasound? My web research leads me to believe the area of interest
>is between 20 and 30khz. Most common bird scarers warble between these
>two limits which are of course above the range of human hearing. I=B4ve
>acquired an ultrasonic transducer that transmits on 41khz. If I couple
>this up to a wien-bridge oscillator trimmed to the same frequency, I
>figure I ought to be able to hear a warble if indeed this guy is using
>a birdscarer, because the difference between 41khz and 20khz-30khz
>will be audible to me. Is this feasible to "air mix" the two
>frequencies in this simple way and hear a result, or is something more
>complicated required?
>Thanks!

Google for 'bat detector'.

--
Reply to nico@nctdevpuntnl (punt=.)
Bedrijven en winkels vindt U op www.adresboekje.nl


From 5156124473572077832
X-Google-Thread: fc2a5,d095ee26342dab00
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newshub.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr11.news.prodigy.net.POSTED!35cb456c!not-for-mail
From: "N9WOS" <N9WOS@nobug.sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <eE7Kh.5359$JZ3.3832@newssvr13.news.prodigy.net>
Subject: Re: Microwave magnetron as a rectifier diode.
Lines: 28
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
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Message-ID: <5DiKh.7654$yW.5224@newssvr11.news.prodigy.net>
NNTP-Posting-Host: 66.72.68.99
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X-Trace: newssvr11.news.prodigy.net 1173993025 ST000 66.72.68.99 (Thu, 15 Mar 2007
16:10:25 EST)
NNTP-Posting-Date: Thu, 15 Mar 2007 16:10:25 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
F[OORRZGZZRSP_@YMZJ_Q\@TJ_ZTB\MV@BNMRQIMASJETAANVW[AKWZE\]^XQWIGNE_[EBL@^_\^JOCQ^
RSNVLGTFTKHTXHHP[NB_C@\SD@EP_[KCXX__AGDDEKGFNB\ZOKLRNCY_CGG[RHT_UN@C_BSY\G__IJIX_
PLSA[CCFAULEY\FL\VLGANTQQ]FN
Date: Thu, 15 Mar 2007 21:10:25 GMT
Xref: g2news1.google.com rec.radio.amateur.homebrew:12632

Woops ..... calculation errors.......
Let me correct a few figures.

> For a 4KV 500mA 2000Wsupply.
> A full wave supply with a 4.5KV-0-4.5KV transformer driving two de-maged
> magnetrons driving a filter choke.
> It would drop about 500V in the magnetrons.
> Power loss would be 40Wfiliment plus 250W plate loss, for a total loss of
> 290W each.
> Total losses would be 580W at full load. 80W at no load.
> 77.5% efficient at full load.

That should be
Total losses would be 330W at full load. 80W at no load.
85.8% efficient at full load.

> The largest supplies you could probably make is a 10KV 500mA 5,000W supply
> with two tubes and an efficiency of 90%.

10KV 500mA 5,000W supply with two tubes and an efficiency of 93.8%.

> Or a 20KV 500mA 10,000W full wave bridge supply, with four tubes, with and
> efficiency of around 90%

20KV 500mA 10,000W full wave bridge supply, with four tubes, with and
efficiency of around 93.8%

From 8663245670413996845
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.glorb.com!news.mv.net!not-for-mail
From: PeterD <peter2@hipson.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound

Date: Thu, 15 Mar 2007 18:18:06 -0400
Organization: MV Communications, Inc.
Lines: 9
Message-ID: <fghjv2l5gism6s5n6qumj4bq510c25nh6m@4ax.com>
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
<vtf5v25f1ba9s9u0tvdk02jehqtld9d1i4@4ax.com> <icabc4-m1h.ln1@remote.clifto.com>
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Mime-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Trace: pyrite.mv.net 1173997087 99317 207.22.18.93 (15 Mar 2007 22:18:07 GMT)
X-Complaints-To: abuse@mv.net
NNTP-Posting-Date: Thu, 15 Mar 2007 22:18:07 +0000 (UTC)
X-Newsreader: Forte Agent 3.3/32.846
Xref: g2news1.google.com rec.radio.amateur.homebrew:12633
sci.electronics.design:206832

On Sat, 10 Mar 2007 12:35:30 -0600, clifto <clifto@gmail.com> wrote:

>Stace MacGuyver wrote:
>> Suspend a thin shaving razor blade between two pieces of dental floss and put
>> your ear close to the blade. Watch the razor vibrate.
>
>That's pretty cool, MacGuyver. Does the razor blade do anything?

Yes, it shaves your ear!

From 7701507090791213327
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
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trndny09.POSTED!0da99462!not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
References: <12vdm9fk86gbr98@news.supernews.com>
<1173875872.602199.152140@d57g2000hsg.googlegroups.com>
<BnWjBrEWBI+FFw8P@g3ohx.demon.co.uk> <12vh20ce6q8sr48@news.supernews.com>
<7RwNs6AN$P+FFwJO@g3ohx.demon.co.uk>
Subject: Re: VCXO frequency isn't high enough
Lines: 79
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response

Message-ID: <lDuKh.7998$vV3.3900@trndny09>
Date: Fri, 16 Mar 2007 10:49:53 GMT
NNTP-Posting-Host: 68.236.45.224
X-Complaints-To: abuse@verizon.net
X-Trace: trndny09 1174042193 68.236.45.224 (Fri, 16 Mar 2007 06:49:53 EDT)
NNTP-Posting-Date: Fri, 16 Mar 2007 06:49:53 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:12634
sci.electronics.basics:47861 sci.electronics.design:207058

Just to set the record straight....

Someone suggested that you need to 'neutralize' the parallel resonance so the series resonance can be tuned toward it. This is completely wrong! The series resonance is, for practical purposes, invariant. The motional parameters (L and C) of the series resonance are such high reactances (small capacitance; high inductance) that external components have only a tiny influence on the series resonance.

The series resonant frequency is the lower of the two crystal 'resonances'. The parallel resonance is above it. When you make a VCXO with any substantial tuneability, you're probably operating the crystal at its parallel resonance. This leads to the common observation that you can 'pull' a crystal up in frequency more than you you can pull it down. You can only pull the parallel resonance to approach the series resonant frequency, but you can't pass it because the crystal is effectively a short-circuit at that frequency.

Also for the record, the crystal's quartz only has one fundamental and significant natural resonance - the series resonance. The so-called 'parallel resonance' is actually a controlled spurious resonance caused by the holder capacitance. At frequencies above series resonanve, the crystal's RLC equivalent looks inductive, and at some frequency the holder capacitance will resonate that net inductance.

Joe
W3JDR

"Ian Jackson" <IanJacksonRemoveThisBit@g3ohx.demon.co.uk> wrote in message
news:7RwNs6AN$P+FFwJO@g3ohx.demon.co.uk...
> In message <12vh20ce6q8sr48@news.supernews.com>, Anthony Fremont
> <spam-not@nowhere.com> writes
>>Ian Jackson wrote:
>
>>>
>>> As I said, sorry for the ramble.
>>> Ian.
>>
>>OMG are you kidding, don't be sorry. Thank you way so much!!! :-))) You
>>should set your clock to way in the future and repost that message so it
>>sticks around for a while. ;-)
>>
>>So to make a long story short I need to put an inductor of roughly 400uH

>>across the crystal to cancel the 5pF of C2.   Wow that's a ton of
>>inductance, but about 27 turns on a FT50-43 ferrite torroid ought to do
>>it.
>>I'll let you know how that works out. I found another crystal,
>>unfortunately it's identical and possibly from the same batch. I haven't
>>tried it yet, but I'm not expecting any miracles. I'm tired of burning my
>>fingers unsoldering parts, so I'm goint to tinker on the breadboard with
>>another 602 set up just for the oscillator testing with capacitor changes.
>>I will apply the new coil to the soldered up version though.
>>
>>The receiver hears, as we just had a storm earlier and I could hear
>>lightning crashes in the distance. In my narrow tuning range, I can hear
>>what is likely the carrier of a broadcaster too, or maybe my TV. Later
>>tonight when the band opens up some more, I should hear something from
>>W1AW
>>hopefully.
>>
>>Thanks again
>>
>>
>
> As you say, at around 3.5MHz, you will need a fairly large inductor to
> resonate with 5pF. An alternative might be to make a bridge circuit, where
> you actually use another (5pF) capacitor to balance out the unwanted 5pF.
> I used to use an extremely simple balancing circuit to make accurate
> measurements of the resonant frequencies and ESRs (equivalent series
> resistance) of VHF crystals, and it should be possible to use something
> similar in an oscillator. However, maybe someone out there can advise on a
> tried-and-tested circuit which will definitely work. [There's no point in
> re-inventing the wheel!]
> Ian.
> --
>

From 6522166267992391087
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l75g2000hse.googlegroups.com!not-for-mail
From: skavanagh72nospam@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: 16 Mar 2007 06:12:27 -0700
Organization: http://groups.google.com
Lines: 30
Message-ID: <1174050747.602251.158400@l75g2000hse.googlegroups.com>

References: <12vdm9fk86gbr98@news.supernews.com>
<1173875872.602199.152140@d57g2000hsg.googlegroups.com>
<BnWjBrEWBI+FFw8P@g3ohx.demon.co.uk>
<12vh20ce6q8sr48@news.supernews.com>
<7RwNs6AN$P+FFwJO@g3ohx.demon.co.uk>
<lDuKh.7998$vV3.3900@trndny09>
NNTP-Posting-Host: 199.243.50.53
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174050749 24360 127.0.0.1 (16 Mar 2007 13:12:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 16 Mar 2007 13:12:29 +0000 (UTC)
In-Reply-To: <lDuKh.7998$vV3.3900@trndny09>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l75g2000hse.googlegroups.com; posting-host=199.243.50.53;
posting-account=0Ys2Eg0AAADOQYhHmHwRZ2EGbJYic2GH
Xref: g2news1.google.com rec.radio.amateur.homebrew:12635
sci.electronics.basics:47867 sci.electronics.design:207087

On Mar 16, 5:49 am, "W3JDR" <j...@roccis.com> wrote:

> The series resonance is, for practical purposes, invariant. The motional
> parameters (L and C) of the series resonance are such high reactances (small
> capacitance; high inductance) that external components have only a tiny
> influence on the series resonance.

Yes....this is the point of a VCXO...to allow an almost infinitessimally small, but still useful, variation about the crystal frequency while maintaining most of the crystal's stability.

> The series resonant frequency is the lower of the two crystal 'resonances'.
> The parallel resonance is above it. When you make a VCXO with any
> substantial tuneability, you're probably operating the crystal at its
> parallel resonance. This leads to the common observation that you can 'pull'
> a crystal up in frequency more than you you can pull it down.

Nearly all VCXO's I've run across work the other way. You can pull the frequency down substantially while maintaining good stability (typically on the order of 0.1%), but not up. This certainly applies to the circuit for which the original poster provided a link.

Do you have any examples of practical circuit schematics which use parallel resonance and which can be pulled substantially up in frequency ? I assume it should be possible to do with a parallel inductor, for example in a Franklin oscillator circuit, but as was pointed out the inductor values can be inconveniently large.

Steve

From 2759131083800838058
X-Google-Thread: fc2a5,62873ff8485a63e3,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newshub.stanford.edu!newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-02!sn-xt-sjc-07!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ? on neon light as static discharge device
Date: Fri, 16 Mar 2007 08:37:30 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vl7d0bq4bsu95@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 16
Xref: g2news1.google.com rec.radio.amateur.homebrew:12636

I saw somewhere that you could use an NE-2 bulb between the antenna "hot" lead and ground as a static discharge device for a receiver, but can't find an NE-2 and don't know anything about neon bulbs. Anybody know if a standard neon bulb rated at 125 VAC could be used in this manner? Or how I could test it? I'm thinking about charging up a 50V electrolytic capacitor and hitting the bulb with that, to see if it discharges the cap. I have a .22uF 630V mylar cap between the antenna and the input to the tuner because the 35V disc I had there got blown, so I know that static can be a problem with my setup even though it is grounded at two points.
Would welcome any ideas anyone has on how to make this work...

Thanks,

Dave

From 2052509842441935673
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc04.POSTED!24dd0da6!not-for-mail
Sender: Jim Pennino <jimp@mail.specsol.com>
Message-ID: <aeqqc4-3n1.ln1@mail.specsol.com>
From: jimp@specsol.spam.sux.com
Subject: Re: ? on neon light as static discharge device
Newsgroups: rec.radio.amateur.homebrew

References: <12vl7d0bq4bsu95@corp.supernews.com>
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (SunOS/5.9 (sun4u))
Lines: 43
Date: Fri, 16 Mar 2007 15:45:03 GMT
NNTP-Posting-Host: 71.118.11.57
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc04 1174059903 71.118.11.57 (Fri, 16 Mar 2007 11:45:03 EDT)
NNTP-Posting-Date: Fri, 16 Mar 2007 11:45:03 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:12637

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This was fairly common in WWII era radios.

A NE-2 fires at around 90-110V, which is more than a lot of solid state equipment can handle, so the protection offered is dubious with modern radios.

That said, it certainly can't hurt anything to try it if you have some weird problem with static.

You can still get them, but probably not locally.

Jameco (http://www.jameco.com/) still carried them last I looked.

To see where a particular bulb actually fires, put the bulb in parallel with a capacitor and feed it with around a 100V or so DC though a resistor of a few K.

You will have built a relaxation oscillator. The larger the cap and/or resistor, the lower the flash rate.

If you don't have a 'scope to measure the voltage, increase the resistor size until the flash rate is slow enough to watch the cap charge with a voltmeter.

--
Jim Pennino

Remove .spam.sux to reply.

```
From 1193196228137950187
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 16 Mar 2007 10:55:51 -0500
Date: Fri, 16 Mar 2007 15:56:53 +0000
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/
20060910 SeaMonkey/1.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
References: <12vl7d0bq4bsu95@corp.supernews.com>
In-Reply-To: <12vl7d0bq4bsu95@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
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Message-ID: <XPGdna0PRImVI2fYnZ2dnUVZ8vSdnZ2d@pipex.net>
Lines: 26
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P+OHXCmOzdRDYQPFI5Xl+rysqltdzCgwxrnicI/gr0AaOX9o5G40NcBgNZiANBJVLnCPI/iz+PA2!
E9Fb3xqGVoaxDwLRlc2VbexiJ4c=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12638

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============================================
To avoid  building-up of static you can fit a say 47 Kilo Ohms
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This would not affect the received or transmitted signal.

I have fitted 2 non-inductive (carbon) 1 Watt resistors (47 KOhms)  from
```

the incoming balanced feeder to earth at the Antenna Matching Unit.
This approach is obviously also OK with an incoming coax feeder.
At 100 W RF output the voltage would be 71 V at the transceiver. This would dissipate a little over 0.1 Watt in the 47K resistor fitted at the transceiver. Metal-oxyde resistors can for this purpose also be considered as non-inductive.

Frank   GM0CSZ / KN6WH

```
From -3922065161522989251
X-Google-Thread: fc2a5,c93dc1ba9d51bfa0,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 16 Mar 2007 11:53:30 -0500
From: Kenneth Grimm <kdgrimm@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Need help identifying CSdc diode block
Date: Fri, 16 Mar 2007 12:53:30 -0400
Organization: BAMA
Message-ID: <nfilv2ldqoku9fhlp8mhmbpihnt3r9uk6u@4ax.com>
X-Newsreader: Forte Agent 3.3/32.846
MIME-Version: 1.0
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NS7kDuAn1q2KmE1GGimUk400OA==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12639
```

I've got a set of four epoxy block diodes that I would like to use in my next home brew amplifier power supply. The problem is that the company that made them, CSdc (Conditioning Semiconductor Devices Corporation) was bought up back in the 80's and I can't find anything on the web about the value of the devices. I would sure like to know what C67-6225A by CSdc is. They are 1 inch square by 5.5 inches long black epoxy blocks. Any help would be greatly appreciated.
Thanks,

Ken K4XL

k4xl@arrl.net

*** BoatAnchor Manual Archive ***
On the web at http://bama.sbc.edu and http://bama.edebris.com
FTP site info: bama.sbc.edu login: anonymous p/w: youremailadr

From -2063919630179478979
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
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spamkiller.gnilink.net!gnilink.net!trnddc06.POSTED!24dd0da6!not-for-mail
Sender: Jim Pennino <jimp@mail.specsol.com>
Message-ID: <8duqc4-9lb.ln1@mail.specsol.com>
From: jimp@specsol.spam.sux.com
Subject: Re: ? on neon light as static discharge device
Newsgroups: rec.radio.amateur.homebrew
References: <12vl7d0bq4bsu95@corp.supernews.com> <aeqqc4-3n1.ln1@mail.specsol.com>
User-Agent: tin/1.8.3-20070201 ("Scotasay") (UNIX) (SunOS/5.9 (sun4u))
Lines: 47
Date: Fri, 16 Mar 2007 16:55:02 GMT
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X-Complaints-To: abuse@verizon.net
X-Trace: trnddc06 1174064102 71.118.11.57 (Fri, 16 Mar 2007 12:55:02 EDT)
NNTP-Posting-Date: Fri, 16 Mar 2007 12:55:02 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:12640

jimp@specsol.spam.sux.com wrote:
> Dave <db5151@hotmail.com> wrote:
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> You will have built a relaxation oscillator. The larger the cap and/or resistor,
> the lower the flash rate.

> If you don't have a 'scope to measure the voltage, increase the resistor
> size until the flash rate is slow enough to watch the cap charge with a
> voltmeter.

I should have added that you can't use the neon if there is a transmitter
attached to the same line.

--
Jim Pennino

Remove .spam.sux to reply.

From -1868143587384653443
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-03!sn-ams!sn-feed-ams-01!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
Date: Fri, 16 Mar 2007 12:08:05 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vljnsjq3hf285@corp.supernews.com>
References: <12vl7d0bq4bsu95@corp.supernews.com> <aeqqc4-3n1.ln1@mail.specsol.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 71
Xref: g2news1.google.com rec.radio.amateur.homebrew:12641

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news:aeqqc4-3n1.ln1@mail.specsol.com...
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> size until the flash rate is slow enough to watch the cap charge with a
> voltmeter.
>
> --
> Jim Pennino
>

Thanks for the reply, Jim.

While waiting I set up a charging system for a cap and then tested to see whether the bulb would discharge the cap. No go. I am sure that at a high enough voltage the bulb might help, but I am going to have to use a resistor in parrallel with the bulb, or some other setup, to guard against relatively low voltage static buildup.

Thanks for the relaxation osc. idea. I might actually use that in m search. Never would have thought of it.

Much appreciated...

Dave

```
From -571141128816289629
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-05!sn-xt-sjc-01!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
Date: Fri, 16 Mar 2007 12:11:44 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vljuojf3pgu4c@corp.supernews.com>
References: <12vl7d0bq4bsu95@corp.supernews.com>
<XPGdna0PRImVI2fYnZ2dnUVZ8vSdnZ2d@pipex.net>
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 44
Xref: g2news1.google.com rec.radio.amateur.homebrew:12642
```

"Highland Ham" <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote in message news:XPGdna0PRImVI2fYnZ2dnUVZ8vSdnZ2d@pipex.net...

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> At 100 W RF output the voltage would be 71 V at the transceiver. This
> would dissipate a little over 0.1 Watt in the 47K resistor fitted at the
> transceiver. Metal-oxyde resistors can for this purpose also be
> considered as non-inductive.
>
>
> Frank   GM0CSZ / KN6WH

Thanks for the input, Frank. I believe this, or something like it, is what
I am going to have to do. I've already got the bulb installed in the
receiver case, and I guess I'll leave it there to warn me of impending doom,
but the resistor idea is what will probably save my bacon.

Is a metal-oxide resistor the same thing as a metal-film resistor? Or would
that be inductive and mess with my incoming signal?

Thanks much,

Dave

From 8550442730712774637
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed1.ip.tiscali.net!
tiscali!transit1.news.tiscali.nl!transit.news.xs4all.nl!newsgate.cistron.nl!
xs4all!feeder5.cambrium.nl!feeder1.cambrium.nl!feed.tweaknews.nl!
138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-03!sn-ams!sn-feed-ams-02!sn-post-
ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
Date: Fri, 16 Mar 2007 12:35:16 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vllarf8nlds3e@corp.supernews.com>
References: <12vl7d0bq4bsu95@corp.supernews.com> <aeqqc4-3n1.ln1@mail.specsol.com>
<8duqc4-9lb.ln1@mail.specsol.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028

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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 67
Xref: g2news1.google.com rec.radio.amateur.homebrew:12643


<jimp@specsol.spam.sux.com> wrote in message
news:8duqc4-9lb.ln1@mail.specsol.com...
> jimp@specsol.spam.sux.com wrote:
>> Dave <db5151@hotmail.com> wrote:
>> > I saw somewhere that you could use an NE-2 bulb between the antenna
>> > "hot"
>> > lead and ground as a static discharge device for a receiver, but can't
>> > find
>> > an NE-2 and don't know anything about neon bulbs.  Anybody know if a
>> > standard neon bulb rated at 125 VAC could be used in this manner?  Or
>> > how I
>> > could test it?  I'm thinking about charging up a 50V electrolytic
>> > capacitor
>> > and hitting the bulb with that, to see if it discharges the cap.  I
>> > have  a
>> > .22uF 630V mylar cap between the antenna and the input to the tuner
>> > because
>> > the 35V disc I had there got blown, so I know that static can be a
>> > problem
>> > with my setup even though it is grounded at two points.
>> > Would welcome any ideas anyone has on how to make this work...
>
>> > Thanks,
>
>> > Dave
>
>> This was fairly common in WWII era radios.
>
>> A NE-2 fires at around 90-110V, which is more than a lot of solid state
>> equipment can handle, so the protection offered is dubious with modern
>> radios.
>
>> That said, it certainly can't hurt anything to try it if you have some
>> weird problem with static.
>
>> You can still get them, but probably not locally.
>
>> Jameco (http://www.jameco.com/) still carried them last I looked.
>
>> To see where a particular bulb actually fires, put the bulb in parallel
>> with
>> a capacitor and feed it with around a 100V or so DC though a resistor of
>> a few K.
>
>> You will have built a relaxation oscillator. The larger the cap and/or
>> resistor,
>> the lower the flash rate.
>
>> If you don't have a 'scope to measure the voltage, increase the resistor
>> size until the flash rate is slow enough to watch the cap charge with a
>> voltmeter.
>
> I should have added that you can't use the neon if there is a transmitter
> attached to the same line.
>
> --
> Jim Pennino
>

No problem, no transmitter here.  Receiver only.

Thanks.

Dave
```

```
From -3481424742922319335
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 16 Mar 2007 12:48:23 -0500
Date: Fri, 16 Mar 2007 17:49:17 +0000
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/
20060910 SeaMonkey/1.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
References: <12vl7d0bq4bsu95@corp.supernews.com>
<XPGdna0PRImVI2fYnZ2dnUVZ8vSdnZ2d@pipex.net> <12vljuojf3pgu4c@corp.supernews.com>
In-Reply-To: <12vljuojf3pgu4c@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <16KdnflASMn1RWfYRVnytwA@pipex.net>
Lines: 10
NNTP-Posting-Host: 81.178.239.196
X-Trace: sv3-
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V9etDcUkUF3jkYslqLfeC6rgUOGDUMSIAdot2jYRt6iwwQUSwA1c0VjL6cB+TLK6iwtu8aDpG1GN!
fA8gYXmf9AlyXH4=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

```
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12644

> Is a metal-oxide resistor the same thing as a metal-film resistor?  Or would
> that be inductive and mess with my incoming signal?
========================
Dave , My apology , I meant indeed metal 'film' resistor.

Frank   GM0CSZ / KN6WH







From -6297866643449195153
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!sn-xt-sjc-05!sn-xt-sjc-07!sn-post-
sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
Date: Fri, 16 Mar 2007 12:59:50 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vlmotg0hic3c3@corp.supernews.com>
References: <12vl7d0bq4bsu95@corp.supernews.com>
<XPGdna0PRImVI2fYnZ2dnUVZ8vSdnZ2d@pipex.net> <12vljuojf3pgu4c@corp.supernews.com>
<16KdnflASMn1RWfYRVnytwA@pipex.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 21
Xref: g2news1.google.com rec.radio.amateur.homebrew:12645


"Highland Ham" <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote in message
news:16KdnflASMn1RWfYRVnytwA@pipex.net...
>> Is a metal-oxide resistor the same thing as a metal-film resistor?  Or
>> would that be inductive and mess with my incoming signal?
> ========================
> Dave , My apology , I meant indeed metal 'film' resistor.
>
> Frank   GM0CSZ / KN6WH
>
>
>
>
```

Aah. Gotcha. Thanks for the ideas and the info.

73

Dave

From -8407056749880102605
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newshub.stanford.edu!sn-xt-sjc-02!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
Date: Fri, 16 Mar 2007 13:06:36 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vln5jr6vit957@corp.supernews.com>
References: <12vl7d0bq4bsu95@corp.supernews.com>
<XPGdna0PRImVI2fYnZ2dnUVZ8vSdnZ2d@pipex.net> <12vljuojf3pgu4c@corp.supernews.com>
<16KdnflASMn1RWfYRVnytwA@pipex.net> <12vlmotg0hic3c3@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 36
Xref: g2news1.google.com rec.radio.amateur.homebrew:12646

"Dave" <db5151@hotmail.com> wrote in message
news:12vlmotg0hic3c3@corp.supernews.com...
>
> "Highland Ham" <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote in message
> news:16KdnflASMn1RWfYRVnytwA@pipex.net...
>>> Is a metal-oxide resistor the same thing as a metal-film resistor? Or
>>> would that be inductive and mess with my incoming signal?
>> ========================
>> Dave , My apology , I meant indeed metal 'film' resistor.
>>
>> Frank   GM0CSZ / KN6WH
>>
>>
>>
>>
>
> Aah. Gotcha. Thanks for the ideas and the info.
>

> 73
>
> Dave
>
>

BTW, this brings up another question: I have read that carbon composition resistors have a small amount of capacitive reactance due to the tiny particles that make up their mass, and should not be used for RF projects. But metal film resistors are inductive. So what kind of resistors should I be using in my RF projects? Is there a third type?

Thanks,

Dave

From -5989266950354279064
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!pd7cy1no!pd7cy2no!shaw.ca!
pd7urf2no.POSTED!53ab2750!not-for-mail
X-Trace-PostClient-IP: 70.64.112.90
From: Yukio YANO <yano@shaw.ca>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
References: <12vl7d0bq4bsu95@corp.supernews.com>
In-Reply-To: <12vl7d0bq4bsu95@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 29
Message-ID: <j3BKh.25152$DN.7632@pd7urf2no>
Date: Fri, 16 Mar 2007 18:09:19 GMT
NNTP-Posting-Host: 24.66.94.143
X-Complaints-To: abuse@shaw.ca
X-Trace: pd7urf2no 1174068559 24.66.94.143 (Fri, 16 Mar 2007 12:09:19 MDT)
NNTP-Posting-Date: Fri, 16 Mar 2007 12:09:19 MDT
Organization: Shaw Residential Internet
Xref: g2news1.google.com rec.radio.amateur.homebrew:12647

Dave wrote:
> I saw somewhere that you could use an NE-2 bulb between the antenna "hot"
> lead and ground as a static discharge device for a receiver, but can't find
> an NE-2 and don't know anything about neon bulbs. Anybody know if a
> standard neon bulb rated at 125 VAC could be used in this manner? Or how I
> could test it? I'm thinking about charging up a 50V electrolytic capacitor
> and hitting the bulb with that, to see if it discharges the cap. I have a

> .22uF 630V mylar cap between the antenna and the input to the tuner because the 35V disc I had there got blown, so I know that static can be a problem with my setup even though it is grounded at two points.
> Would welcome any ideas anyone has on how to make this work...
>
> Thanks,
>
> Dave
>
>

Most CB radios use a pair of back to back diodes across the receiver input. I also recall the input of the ECG amplifiers also have the same network to protect the Input circuitry from being blasted by the Pulse from Defibrillator Paddles (1~5 KV.). These Back to back Diodes Clamp the Voltage to the Forward Voltage Drop of the Diodes in question at around 0.6 Volts. This circuit works much better and for cheaper than the NE2 at ~60 Volts. If Static Electricity (lightning) is a problem at a specific Frequency, a Grounded 1/4 wavelength shorted Stub could be wired into the Feedline to present a DC ground to the entire antenna system.

Yukio YANO
VE5YS

From 8211752539674408496
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device
Date: Fri, 16 Mar 2007 13:33:50 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vlooln3jg3k05@corp.supernews.com>
References: <12vl7d0bq4bsu95@corp.supernews.com> <j3BKh.25152$DN.7632@pd7urf2no>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 47
Xref: g2news1.google.com rec.radio.amateur.homebrew:12648

"Yukio YANO" <yano@shaw.ca> wrote in message
news:j3BKh.25152$DN.7632@pd7urf2no...
> Dave wrote:
>> I saw somewhere that you could use an NE-2 bulb between the antenna "hot" lead and ground as a static discharge device for a receiver, but can't find an NE-2 and don't know anything about neon bulbs. Anybody know if a

>> standard neon bulb rated at 125 VAC could be used in this manner? Or how
>> I could test it? I'm thinking about charging up a 50V electrolytic
>> capacitor and hitting the bulb with that, to see if it discharges the
>> cap. I have a .22uF 630V mylar cap between the antenna and the input to
>> the tuner because the 35V disc I had there got blown, so I know that
>> static can be a problem with my setup even though it is grounded at two
>> points.
>> Would welcome any ideas anyone has on how to make this work...
>>
>> Thanks,
>>
>> Dave
>>
>>
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> input. I also recall the input of the ECG amplifiers also have the same
> network to protect the Input circuitry from being blasted by the Pulse
> from Defibrillator Paddles (1~5 KV.). These Back to back Diodes Clamp
> the Voltage to the Forward Voltage Drop of the Diodes in question at
> around 0.6 Volts. This circuit works much better and for cheaper than the
> NE2 at ~60 Volts. If Static Electricity (lightning) is a problem at a
> specific Frequency, a Grounded 1/4 wavelength shorted Stub could be wired
> into the Feedline to present a DC ground to the entire antenna system.
>
> Yukio YANO
> VE5YS

Of course! Back to back diodes! Why didn't I think of that? Thank you,
thank you, thank you. How obvious! :)

But is there any way that I could still use my neon bulb to let me know if a
pulse of high-voltage static hits the input to the receiver? I would love
it if there were some way to make that still work...

73's

Dave

From 5057392704675030914
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newshub.sdsu.edu!tethys.csu.net!nntp.csufresno.edu!sn-xt-sjc-02!sn-xt-sjc-11!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ? on neon light as static discharge device

```
Date: Fri, 16 Mar 2007 14:02:43 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vlqerh0ke007@corp.supernews.com>
References: <12vl7d0bq4bsu95@corp.supernews.com> <j3BKh.25152$DN.7632@pd7urf2no>
<12vlooln3jg3k05@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 65
Xref: g2news1.google.com rec.radio.amateur.homebrew:12649


"Dave" <db5151@hotmail.com> wrote in message
news:12vlooln3jg3k05@corp.supernews.com...
>
> "Yukio YANO" <yano@shaw.ca> wrote in message
> news:j3BKh.25152$DN.7632@pd7urf2no...
>> Dave wrote:
>>> I saw somewhere that you could use an NE-2 bulb between the antenna
>>> "hot" lead and ground as a static discharge device for a receiver, but
>>> can't find an NE-2 and don't know anything about neon bulbs.  Anybody
>>> know if a standard neon bulb rated at 125 VAC could be used in this
>>> manner?  Or how I could test it?  I'm thinking about charging up a 50V
>>> electrolytic capacitor and hitting the bulb with that, to see if it
>>> discharges the cap.  I have  a .22uF 630V mylar cap between the antenna
>>> and the input to the tuner because the 35V disc I had there got blown,
>>> so I know that static can be a problem with my setup even though it is
>>> grounded at two points.
>>> Would welcome any ideas anyone has on how to make this work...
>>>
>>> Thanks,
>>>
>>> Dave
>>>
>>>
>>  Most CB radios use a pair of back to back diodes across the receiver
>> input. I also recall the input of the ECG amplifiers also have the same
>> network to protect the Input circuitry from being blasted by the Pulse
>> from  Defibrillator Paddles (1~5 KV.).  These Back to back Diodes Clamp
>> the Voltage to the Forward Voltage Drop of the Diodes in question at
>> around 0.6 Volts. This circuit works much better and for cheaper than the
>> NE2 at ~60 Volts. If Static Electricity (lightning) is a problem at a
>> specific Frequency, a Grounded 1/4 wavelength shorted Stub could be wired
>> into the Feedline to present a DC ground to the entire antenna system.
>>
>> Yukio YANO
>> VE5YS
>
> Of course!  Back to back diodes!  Why didn't I think of that?  Thank you,
> thank you, thank you.  How obvious! :)
```

>
> But is there any way that I could still use my neon bulb to let me know if
> a pulse of high-voltage static hits the input to the receiver? I would
> love it if there were some way to make that still work...
>
> 73's
>
>
> Dave
>

Question on this last note: What if I put the back to back diodes in series with a 100K resistor, and they together in parrallel with the neon bulb. Would that slow the discharge of a fairly large static pulse enough to light the neon bulb, even briefly? I have the input to the receiver protected by a fairly high-voltage (non-electrolytic) capacitor, so I'm not too worried about the slowed-down pulse getting through to the rest of the circuit. And if it did get through it would find an air-gap transmitting variable capacitor next in line as the tuning cap. Is this a dumb idea, or might it behave as I desire? Any ideas?

Thanks,

Dave

From -5275066693577073954
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-online.de!newsfeed.vmunix.org!peer-uk.news.demon.net!kibo.news.demon.net!news.demon.co.uk!demon!g3ohx.demon.co.uk!IanJacksonRemoveThisBit
From: Ian Jackson <IanJacksonRemoveThisBit@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Fri, 16 Mar 2007 19:25:24 +0000
Lines: 99
Message-ID: <Dg6TAUDk8u+FFw9Q@g3ohx.demon.co.uk>
References: <12vdm9fk86gbr98@news.supernews.com>
 <1173875872.602199.152140@d57g2000hsg.googlegroups.com>
 <BnWjBrEWBI+FFw8P@g3ohx.demon.co.uk> <12vh20ce6q8sr48@news.supernews.com>
 <7RwNs6AN$P+FFwJO@g3ohx.demon.co.uk> <lDuKh.7998$vV3.3900@trndny09>
Reply-To: Ian Jackson <IanJackson@REMOVE-THIS-BITg3ohx.demon.co.uk>
NNTP-Posting-Host: g3ohx.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed

X-Trace: news.demon.co.uk 1174073129 9439 80.176.138.122 (16 Mar 2007 19:25:29 GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Fri, 16 Mar 2007 19:25:29 +0000 (UTC)
User-Agent: Turnpike/6.02-S (<TJ0VKlySlxi7kGP8bkzInRG7RW>)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12650 sci.electronics.basics:47895 sci.electronics.design:207171

In message <lDuKh.7998$vV3.3900@trndny09>, W3JDR <joe@roccis.com> writes
>Just to set the record straight....
>
>Someone suggested that you need to 'neutralize' the parallel resonance so
>the series resonance can be tuned toward it. This is completely wrong!

It may be 'completely wrong', but my experience with getting out-of-spec (too LF) VHF overtone crystals up to the required frequency indicates that it does enable the oscillator to work at a slightly higher frequency than it 'wants to'. This is because the throughput peak of the series resonance moves HF when the sudden parallel resonance is removed. [The assumption is that oscillation occurs at the peak of the series resonance, which may not be entirely true.]

>The
>series resonance is, for practical purposes, invariant. The motional
>parameters (L and C) of the series resonance are such high reactances (small
>capacitance; high inductance) that external components have only a tiny
>influence on the series resonance.

This is more-or-less what I said. The influence of the relatively large series trimmer capacitor will be pretty small.

>The series resonant frequency is the lower of the two crystal 'resonances'.
>The parallel resonance is above it. When you make a VCXO with any
>substantial tuneability, you're probably operating the crystal at its
>parallel resonance.

Lots of technical information calls the actual parallel resonance 'anti-resonance', and indicates that there is an 'area of parallel resonance' between the true series resonance and the spurious parallel resonance. In this area, the impedance of the crystal rapidly changes from being zero (at the series resonant frequency) to infinitely inductive (at the anti-resonant frequency). In many oscillator circuits, the oscillation occurs neither at the series resonant nor the parallel (anti-) resonant frequencies. Instead, the actual frequency of oscillation will be determined by some value of this inductance and the external capacitors, and also on the phaseshift and amplitude of signal throughput through the crystal. All very complicated!

>This leads to the common observation that you can 'pull'
>a crystal up in frequency more than you you can pull it down. You can only
>pull the parallel resonance to approach the series resonant frequency, but
>you can't pass it because the crystal is effectively a short-circuit at that
>frequency.

And neither can you use external elements to pull the series resonance very far HF, because it runs into the parallel resonance. From my experience, a swept frequency response through a crystal shows that the throughput peak of the series resonant frequency never really reaches its full amplitude before it starts to get pulled down in parallel resonance hole. Neutralizing the shunt capacitance prevents the parallel resonance from occurring so close to the series resonance. As a result, the frequency response throughput curve becomes symmetrical, and the actual peak is somewhat further HF. Certainly, my oscillators (which were supposed to operate at the true series resonance of the crystal) DID move HF when I neutralized the crystal.

[Note that the full frequency response of a crystal with a parallel neutralizing inductor, from DC to well above the crystal frequency, consists of a broad notch centred on the crystal frequency (the parallel resonance of the parallel capacitance of the crystal and the neutralizing inductor). In the centre of the notch is a very narrow bandpass (the series resonance of the crystal).]

>
>Also for the record, the crystal's quartz only has one fundamental and significant natural resonance - the series resonance. The so-called 'parallel resonance' is actually a controlled spurious resonance caused by the holder capacitance. At frequencies above series resonanve, the crystal's RLC equivalent looks inductive, and at some frequency the holder capacitance will resonate that net inductance.

Exactly so.

At the parallel (anti-) resonance, the reactance of the crystal suddenly jumps from being infinitely inductive to being infinitely capacitive (0p). As you move further HF, it stays capacitive, progressively decreasing in reactance. The parallel resonance therefore presents a brick wall, beyond which external capacitors cannot resonate with the inductive reactance of the crystal. However, if you neutralize the crystal, you kill the sudden transition from series to parallel resonance, and the frequency range over which the crystal is inductive is considerably extended. This should enable the resonance with external capacitors to extend further HF than when the crystal is not neutralized.

As I originally said, neutralization of the crystal was a suggestion, rather than a panacea. I still reckon that should work. It's worth a try. Unfortunately, the size required for the inductor (which resonates with the crystal parallel capacitance of appx only 5pF) is rather large. If neutralization DOES help, a brute force method of allowing a somewhat smaller inductor to be used would be to deliberately add MORE parallel capacity, and lower the value of the inductor to suit. A more elegant method would be to build the crystal into a simple bridge circuit, so that a neutralizing capacitor could be used instead of an inductor. However, I appreciate that the object of the exercise is to make a simple receiver, and it would be somewhat incongruous to need a very complicated circuit just for the crystal.

Ian.

--

From -1989483763621302874
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.germany.com!multikabel.net!
feed20.multikabel.net!amsnews11.chello.com!amsnews14.chello.com!
news.chello.nl.POSTED!not-for-mail
From: Joop <jojo@chello.nl>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Fri, 16 Mar 2007 22:05:28 +0100
Message-ID: <lk1mv25kk4qi9pd81uktl5pgj3g6aggftf@4ax.com>
References: <12vdm9fk86gbr98@news.supernews.com>
<1173875872.602199.152140@d57g2000hsg.googlegroups.com>
<BnWjBrEWBI+FFw8P@g3ohx.demon.co.uk> <12vh20ce6q8sr48@news.supernews.com>
<7RwNs6AN$P+FFwJO@g3ohx.demon.co.uk> <lDuKh.7998$vV3.3900@trndny09>
<1174050747.602251.158400@l75g2000hse.googlegroups.com>
X-Newsreader: Forte Agent 2.0/32.652
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@chello.nl
Organization: chello.nl
Lines: 69
NNTP-Posting-Host: 62.163.7.62 (62.163.7.62)
NNTP-Posting-Date: Fri, 16 Mar 2007 22:06:52 +0100
X-Trace: 82ddf45fb06ec9b06a29b27117
Xref: g2news1.google.com rec.radio.amateur.homebrew:12651
sci.electronics.basics:47904 sci.electronics.design:207198

On 16 Mar 2007 06:12:27 -0700, skavanagh72nospam@yahoo.ca wrote:

>On Mar 16, 5:49 am, "W3JDR" <j...@roccis.com> wrote:
>
>> The series resonance is, for practical purposes, invariant. The motional
>> parameters (L and C) of the series resonance are such high reactances (small
>> capacitance; high inductance) that external components have only a tiny
>> influence on the series resonance.
>
>Yes....this is the point of a VCXO...to allow an almost
>infinitessimally small, but still useful, variation about the crystal
>frequency while maintaining most of the crystal's stability.
>
>> The series resonant frequency is the lower of the two crystal 'resonances'.
>> The parallel resonance is above it. When you make a VCXO with any
>> substantial tuneability, you're probably operating the crystal at its
>> parallel resonance. This leads to the common observation that you can 'pull'

>> a crystal up in frequency more than you you can pull it down.
>
>Nearly all VCXO's I've run across work the other way. You can pull
>the frequency down substantially while maintaining good stability
>(typically on the order of 0.1%), but not up. This certainly applies
>to the circuit for which the original poster provided a link.
>
>Do you have any examples of practical circuit schematics which use
>parallel resonance and which can be pulled substantially up in
>frequency ? I assume it should be possible to do with a parallel
>inductor, for example in a Franklin oscillator circuit, but as was
>pointed out the inductor values can be inconveniently large.
>
>Steve

I have to agree with Joe. Basically there is no such thing as an crystal oscillator in "parallel resonance". However there are oscillators that use the crystal in the feedback path to add substantial phase shift. Such as in the Pierce oscillator where it behaves inductive. The phase shift changes so rapidly that it can still make a low-drift oscillator.

In the book by Matthys where he compares various oscillators there is one in chapter 10.6 where the deviation from the (series) resonant point is the highest. It is a circuit where the crystal sees a very high impedance as opposed to regular circuits where highest Q is obtained with very low impedance. This in effect makes the crystal load to be around C0 of the crystal with some output and input capacitance. And therefore it is probably the smallest effective physical series capacitance obtainable and thus the highest frequency.

Looking up the Franklin oscillator you mentioned, I notice this also is providing a high impedance to the resonant elements. So yes, it seems a valid way of implementing an alternative to Matthys' example.

Now also cancelling the effect of C0 of the crystal by adding parallel inductance might push it a bit further. Right now I would not be able to predict the effect on loaded Q of the crystal. Lowering Q is normally not done, but in this case we are primarily in quest for wide pulling range right?

In a low impedance Butler (overtone) oscillator I have seen C0 cancellation by using parallel inductance as well. There sometimes is an L plus series R used to lower the Q of the L/C0 combination. This seems not appropriate for a high impedance oscillator circuit. I would expect best effect if the Q of the inductor is high (low Rs).

Sorry this is still theory. I have no examples of VCXO in this context.

Cheers,

Joop

```
From 2718724591031765181
X-Google-Thread: fc2a5,62873ff8485a63e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!
nx01.iad01.newshosting.com!newshosting.com!69.28.186.77.MISMATCH!hwmnpeer03.lga!
hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe22.lga.POSTED!
53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.homebrew
References: <12vl7d0bq4bsu95@corp.supernews.com>
<XPGdna0PRImVI2fYnZ2dnUVZ8vSdnZ2d@pipex.net> <12vljuojf3pgu4c@corp.supernews.com>
Subject: Re: ? on neon light as static discharge device
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <F%DKh.14670$mJ1.12958@newsfe22.lga>
Date: Fri, 16 Mar 2007 17:30:08 -0400
NNTP-Posting-Host: 68.0.230.54
X-Complaints-To: admin@cox.net
X-Trace: newsfe22.lga 1174080613 68.0.230.54 (Fri, 16 Mar 2007 14:30:13 MST)
NNTP-Posting-Date: Fri, 16 Mar 2007 14:30:13 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:12652
```

"Dave" <db5151@hotmail.com> wrote in message
news:12vljuojf3pgu4c@corp.supernews.com...

> >> Frank   GM0CSZ / KN6WH
>
> Thanks for the input, Frank. I believe this, or something like it, is
> what I am going to have to do. I've already got the bulb installed in the
> receiver case, and I guess I'll leave it there to warn me of impending
> doom, but the resistor idea is what will probably save my bacon.
>
> Is a metal-oxide resistor the same thing as a metal-film resistor? Or
> would that be inductive and mess with my incoming signal?
>
> Thanks much,
>
> Dave
>

Why would the inductance be of any concern? It would
be effectively in series with the resistance, thus raising the
device's impedance... I'd think that would lessen the
loading on receive or transmit signals.

Pete
>

```
From -2921983175632760926
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d57g2000hsg.googlegroups.com!not-for-
mail
From: "whit3rd" <whit3rd@gmail.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: 16 Mar 2007 15:01:21 -0700
Organization: http://groups.google.com
Lines: 12
Message-ID: <1174082481.038491.181510@d57g2000hsg.googlegroups.com>
References: <12vdm9fk86gbr98@news.supernews.com>
NNTP-Posting-Host: 66.238.96.38
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1174082482 6082 127.0.0.1 (16 Mar 2007 22:01:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 16 Mar 2007 22:01:22 +0000 (UTC)
In-Reply-To: <12vdm9fk86gbr98@news.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; PPC Mac OS X; en) AppleWebKit/312.8.1
(KHTML, like Gecko) Safari/312.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d57g2000hsg.googlegroups.com; posting-host=66.238.96.38;
   posting-account=A_Ki2w0AAABcfh2Ndg-4A_Is1_pQcYBx
Xref: g2news1.google.com rec.radio.amateur.homebrew:12653
sci.electronics.basics:47905 sci.electronics.design:207206
```

On Mar 13, 10:02 am, "Anthony Fremont" <spam-...@nowhere.com> wrote:

> Hello all,
>
> ... supposed to pull the colorburst crystal
> high in frequency then the adjustable cap should be able to tweak it back
> down.

It's only possible to pull a crystal a little way from its center
frequency
by external components. If you put a resistor in parallel with the
crystal (to lower its Q) you can increase the pull range.

```
From -1807616549335738302
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!news.highwinds-
media.com!newspeer1-win.ntli.net!newsfe1-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "colin" <colin.rowe1@ntworld.NOSPAM.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
References: <12vdm9fk86gbr98@news.supernews.com>
<1173875872.602199.152140@d57g2000hsg.googlegroups.com>
<BnWjBrEWBI+FFw8P@g3ohx.demon.co.uk> <12vh20ce6q8sr48@news.supernews.com>
<7RwNs6AN$P+FFwJO@g3ohx.demon.co.uk> <lDuKh.7998$vV3.3900@trndny09>
<1174050747.602251.158400@l75g2000hse.googlegroups.com>
<lk1mv25kk4qi9pd81uktl5pgj3g6aggftf@4ax.com>
Subject: Re: VCXO frequency isn't high enough
Lines: 90
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <WbFKh.4697$_v3.3986@newsfe1-gui.ntli.net>
Date: Fri, 16 Mar 2007 22:51:34 GMT
NNTP-Posting-Host: 82.1.178.213
X-Trace: newsfe1-gui.ntli.net 1174085494 82.1.178.213 (Fri, 16 Mar 2007 22:51:34
GMT)
NNTP-Posting-Date: Fri, 16 Mar 2007 22:51:34 GMT
Organization: NTL
Xref: g2news1.google.com rec.radio.amateur.homebrew:12654
sci.electronics.basics:47909 sci.electronics.design:207216

"Joop" <jojo@chello.nl> wrote in message
news:lk1mv25kk4qi9pd81uktl5pgj3g6aggftf@4ax.com...
> On 16 Mar 2007 06:12:27 -0700, skavanagh72nospam@yahoo.ca wrote:
>
>>On Mar 16, 5:49 am, "W3JDR" <j...@roccis.com> wrote:
>>
>>> The series resonance is, for practical purposes, invariant. The motional
>>> parameters (L and C) of the series resonance are such high reactances
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>>> capacitance; high inductance) that external components have only a tiny
>>> influence on the series resonance.
>>
>>Yes....this is the point of a VCXO...to allow an almost
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>>frequency while maintaining most of the crystal's stability.
>>
```

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> an L plus series R used to lower the Q of the L/C0 combination. This
> seems not appropriate for a high impedance oscillator circuit. I would
> expect best effect if the Q of the inductor is high (low Rs).
>
> Sorry this is still theory. I have no examples of VCXO in this

> context.

The reason for the parallel inductance in the overtone mode is the
low impedance of the crystal self capacitance at high frequencies,
this on its own can be quite low, and the series resistance
at overtone can be quite high, so this can allow the tank circuit to
dominate rather than the crystal unless it is cancelled.

Not sure about the resistor not seeing the circuit.

the statement all crystal circuits operate in series mode stems from the
fact that the internal eq circuit of a crystal is a series LC, any
capacitance in parallel with the crystal can only be in series with the
internal motional capacitance.

If your lucky you may be able to find a spurious node, but it would be hard
to make it oscillate at this point.

Colin =^.^=

From -7093570597350766903
X-Google-Thread: fc2a5,49f916e344873b4d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.nni.com!news.nni.com.POSTED!
not-for-mail
NNTP-Posting-Date: Sun, 11 Mar 2007 21:05:53 -0500
Message-ID: <45F4C32F.C2C53460@intergrafix.net>
Date: Sun, 11 Mar 2007 22:04:15 -0500
From: John <amdinc@intergrafix.net>
X-Mailer: Mozilla 4.7 [en] (Win98; I)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range rural wireless high speed data options...
References: <1172947038.139960.11470@t69g2000cwt.googlegroups.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 47
NNTP-Posting-Host: 207.231.96.29
X-Trace: sv3-Cdd/
CPrGdH2DztfIY35nolbAMQAyJUTDnIax4aFqqmIaNFSaKSCMxS4beLatbFZklg6FnmcCWLCRY9d!
o44f6+PnDd0rinoK2ZUqG7CNZ+zSJ/cGkzQHfcuZnCnLYz5E60wWCNstdzklA15apqgb
X-Complaints-To: abuse@nni.com
X-DMCA-Complaints-To: abuse@nni.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34

Xref: g2news1.google.com rec.radio.amateur.homebrew:12554

Day Brown wrote:
>
> Without clear Line Of Sight do not exist. I intend to solve that
> problem. If I do, I'll get rich. The equipment now being offered is
> not deigned by people who live in rural ares, but engineers who, at
> best, are in suburban office parks.
>
> Right now, I'm using the satellite data from hughes.net. Its not the
> high speed bandwidth advertised. The power supply was designed to be
> plugged into the wall. [that's a period] But if you live out here, you
> know the power goes out. but if you plug their power supply into your
> UPS, you find the damn thing blocks the next two backed up power
> outlets. Hello?
>
> I've tried the 900mhz wireless transceiver. which needs a clear LOS
> (Line of Sight). I like living in the woods; and I'm not going to
> clearcut just so I can get a clear line of sight to the ISP
> transmitter tower. Hello?
>
> I also have a place in a deep hollow by a spring fed trout stream. No
> way will any of the commecially available wireless transmitters work
> down there. You cant even use a cell phone. Hello?
>
> No, I'm thinking about 180 mhz, kinda close to TV channel 8, but...
> out here, the nearest TV channel 8 transmitter is 300 miles away.
> Besides, TV antennas are being scrapped all the time; everyone is
> switching to Dish TV. Out in rural areas, RFI/EMI from ham gear no
> longer bothers anyone watching TV.
>
> Besides, seems like there mite be pulse emitters/detectors that work
> at this speed. No Carrier wave, no IF. Technically, its *NOT*
> "radio". Ordinary tuners would ignore it; it aint AM nor FM. A 12 db
> antenna would be about 13' foot long. Awta go 30 miles to an ISP in
> some town that stays up serving users on the weekends. I've tried all
> three of the local small town ISPs, which have a nasty habit of
> crashing on friday nite, and not coming back online til monday
> morning.
>
> I called "support" one time to bitch, and mentioned that I used Linux.
> The response: "What's Linux?"
>
> But what's the best option to go from full duplex into the PC? will
> the standard LAN multiplex at 180mhz? RS232?

Try a full duplex repeater using solar cells at the top of the hill.

John

From 7457025652691384948
X-Google-Thread: fc2a5,49f916e344873b4d

```
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!t69g2000cwt.googlegroups.com!not-for-
mail
From: "Arv" <arvid.evans@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range rural wireless high speed data options...
Date: 11 Mar 2007 21:18:08 -0700
Organization: http://groups.google.com
Lines: 57
Message-ID: <1173673088.652623.199630@t69g2000cwt.googlegroups.com>
References: <1172947038.139960.11470@t69g2000cwt.googlegroups.com>
   <45F4C32F.C2C53460@intergrafix.net>
NNTP-Posting-Host: 71.32.182.171
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1173673095 17701 127.0.0.1 (12 Mar 2007 04:18:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 12 Mar 2007 04:18:15 +0000 (UTC)
In-Reply-To: <45F4C32F.C2C53460@intergrafix.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.1.2) Gecko/
20060601 Firefox/2.0.0.2 (Ubuntu-edgy),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: t69g2000cwt.googlegroups.com; posting-host=71.32.182.171;
   posting-account=j8G-ZQ0AAAArGSmSv5U2nhz6Vo5TeLQN
Xref: g2news1.google.com rec.radio.amateur.homebrew:12555

On 11 Mar, 21:04, John <amd...@intergrafix.net> wrote:
> Day Brown wrote:
>
> > Without clear Line Of Sight do not exist. I intend to solve that
> > problem. If I do, I'll get rich. The equipment now being offered is
> > not deigned by people who live in rural ares, but engineers who, at
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>
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> > transmitter tower.  Hello?
>
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```

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>
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> > The response: "What's Linux?"
>
> > But what's the best option to go from full duplex into the PC? will
> > the standard LAN multiplex at 180mhz? RS232?
>
> Try a full duplex repeater using solar cells at the top of the hill.
>
> John

While he is "out in the boonies", the other end of any Internet access link that he establishes will have to be in a residential or municipal environment in order to get access to Internet facilities. That alone puts some obvious restrictions on what he will be able to do.

Arv
_._

From 2209671113465181205
X-Google-Thread: fc2a5,56b575687b3b49c0
X-Google-Thread: 108122,56b575687b3b49c0
X-Google-Attributes: gidfc2a5,gid108122,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-online.de!newsfeed01.chello.at!newsfeed.utanet.at!zen.net.uk!dedekind.zen.co.uk!nntp-peering.plus.net!ptn-nntp-feeder02.plus.net!ptn-nntp-spool02.plus.net!ptn-nntp-spool01.plus.net!ptn-nntp-reader02.plus.net!not-for-mail
Reply-To: "John A" <e455gkf@yahoo.co.uk>
From: "John A" <e455gkf@yahoo.co.uk>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.equipment
References: <McudnRaaKJXtWG3YnZ2dnUVZ_qOpnZ2d@comcast.com>
<Yi$T+MB9qq8FFwu3@g3msw.demon.co.uk>
Subject: Re: 8558B YIG Oscillator - Not Field Repairable?
Date: Mon, 12 Mar 2007 08:14:47 -0000
X-Priority: 3
X-MSMail-Priority: Normal

```
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Lines: 12
Message-ID: <45f50c09$0$8747$ed2619ec@ptn-nntp-reader02.plus.net>
Organization: Customer of PlusNet plc (http://www.plus.net)
NNTP-Posting-Host: e76c11d6.ptn-nntp-reader02.plus.net
X-Trace: DXC=FjC;0idm=3KYbeIhm09DeHigd3Y`7Rb;N37XnI;
[OUCDG`jPeGcW;iK=MVWYD0m54E4Tm7de1j46H?]J2hI81BLD
X-Complaints-To: abuse@plus.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:12556
rec.radio.amateur.equipment:11673
```

"Ken Ashcroft" <ken@g3msw.demon.co.uk> wrote in message
news:Yi$T+MB9qq8FFwu3@g3msw.demon.co.uk...

> In article <McudnRaaKJXtWG3YnZ2dnUVZ_qOpnZ2d@comcast.com>, George
> Kavanagh <gk05XspamX@comcast.net> writes
> I cannot help on the YIG device, but I do seek help on fixing the
> horizontal deflection failure on mine.

What's the problem, Ken?

```
From 1184216565617677374
X-Google-Thread: fc2a5,d375d392c1ee922a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!c51g2000cwc.googlegroups.com!not-for-
mail
From: N2EY@AOL.COM
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 813 modulators
Date: 12 Mar 2007 03:42:01 -0700
Organization: http://groups.google.com
Lines: 47
Message-ID: <1173696120.943922.200620@c51g2000cwc.googlegroups.com>
References: <12v2mn9md9b6595@corp.supernews.com>
   <1173482497.247596.251220@h3g2000cwc.googlegroups.com>
   <12v4ed3f7cuqlbf@corp.supernews.com>
NNTP-Posting-Host: 152.163.100.11
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1173696126 11693 127.0.0.1 (12 Mar 2007 10:42:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 12 Mar 2007 10:42:06 +0000 (UTC)
In-Reply-To: <12v4ed3f7cuqlbf@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
98),gzip(gfe),gzip(gfe)
```

X-HTTP-Via: HTTP/1.1 Turboweb [rtc-tb063 8.4.1], HTTP/1.1 cache-rtc-aa07.proxy.aol.com[98A3640B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: c51g2000cwc.googlegroups.com; posting-host=152.163.100.11;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news1.google.com rec.radio.amateur.homebrew:12557

On Mar 9, 11:52=EF=BF=BDpm, Jack Schmidling <a...@mc.net> wrote:
> N...@AOL.COM wrote:
> > One concern I have is that the 15 watt amp will see a load of varying
> > impedance from the 813 grids. If you are running them Class AB, their
> > input Z is near infinite until
> > grid current flows. That reflects back to the 15W amp, which may or
> > may not affect it.
>
> There is some idling grid current flowing.. about 30 ma if that helps
> any. =A0This is a zero bias set up with screens and grids tied together.

Then you don't need the resistor I mentioned.
>
> > I suggest putting a resistor across the secondary of the driver
> > transformer, so the amp always sees a load. The resistor then sets the
> > impedance of the transformer.
>
> Someone else suggested a resistor in series but I forgot why. =A0Are you
> addressing the same problem?

No. I was suggesting a resistor across the transformer secondary -
from grid to grid. But since your setup is zero-bias Class B, my
concerns don't apply. The 813 grid/screen connection you are using
provides a load
for the driver.

I think the series-resistor idea meant a small (~100 ohm)
noninductive resistor in series with each grid lead, installed right
at each 813 socket, in case of instability. You obviously don't have
that problem.

> > One request for your website: MORE PICTURES!
>
> Thanks but I have been doing a Photo of the Week this for 12 years and
> that's about 624 to date. =A0If you just want to fall asleep watching
> them, try the slide show.

They're GREAT!

> > ...that 8000 is just beautiful, btw...
>
> Very satisfying to turn a bookend into the heart of a real transmitter.
>
Yep, I know the feeling.

73 de Jim, N2EY

```
From 8869810877623098499
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!b1a104da!not-for-mail
Message-ID: <45F63D77.9C09CCD3@earthlink.net>
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Reply-To: mike.terrell@earthlink.net
Organization: http://home.earthlink.net/~mike.terrell/
X-Mailer: Mozilla 4.76 [en] (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
<vtf5v25f1ba9s9u0tvdk02jehqtld9d1i4@4ax.com> <icabc4-m1h.ln1@remote.clifto.com>
<Wa2dnZxpQpvWYG_YnZ2dnUVZ_tninZ2d@bright.net>
<esv34q$24t$1@registered.motzarella.org> <mokbc4-f0i.ln1@remote.clifto.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 33
Date: Tue, 13 Mar 2007 05:58:14 GMT
NNTP-Posting-Host: 24.110.34.161
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1173765494 24.110.34.161 (Mon, 12 Mar
2007 22:58:14 PDT)
NNTP-Posting-Date: Mon, 12 Mar 2007 22:58:14 PDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:12558
sci.electronics.design:205744
```

clifto wrote:
>
> John Smith I wrote:
> > Scott wrote:
> >> clifto wrote:
> >>> Stace MacGuyver wrote:
> >>>> Suspend a thin shaving razor blade between two pieces of dental floss
> >>>> and put
> >>>> your ear close to the blade. Watch the razor vibrate.
> >>>
> >>> That's pretty cool, MacGuyver. Does the razor blade do anything?
> >>
> >> It cuts off your ear if you get too close ;)
> > >
> > > Be better if you could use it as an electric razor ...
>
> Replace the dental floss with Litz wire and attach ends to 110 VAC.

>
> Wait. Maybe not. Considering how many stations you can pick up with a
> razor-blade radio, that would probably interfere with vital communications
> all throughout the spectrum. What's the resonant frequency of a whisker?

They don't make the blue blades anymore.

--
Service to my country? Been there, Done that, and I've got my DD214 to prove it.
Member of DAV #85.

Michael A. Terrell
Central Florida

```
From 8586048095673712368
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 13 Mar 2007 01:55:37 -0500
Message-Id: <t9uhc4-vk2.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: Re: Detecting Ultrasound
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Date: Tue, 13 Mar 2007 01:52:13 -0500
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
<vtf5v25f1ba9s9u0tvdk02jehqtld9d1i4@4ax.com> <icabc4-m1h.ln1@remote.clifto.com>
<Wa2dnZxpQpvWYG_YnZ2dnUVZ_tninZ2d@bright.net>
<esv34q$24t$1@registered.motzarella.org> <mokbc4-f0i.ln1@remote.clifto.com>
<45F63D77.9C09CCD3@earthlink.net>
Organization: Vast Right-Wing Conspiracy
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 29
NNTP-Posting-Host: 24.15.127.46
X-Trace: sv3-QRqiq/
tssTWQHqyIIEJ0VPeWrm2akP44wvV0tCWRDtx3tktY1CtLGf3Hu8wyD9dR4nnN6+EkExKVlaz!
3dWRN+IFLXr3KeqTArLAyoe9vwuaSgNRXSztfvDhGG9uSIF7bnPQV4WtY7vyTqfUa2cJjkmMlGkF!
yxbTIqfx3CdA
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

```
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12559
sci.electronics.design:205782

Michael A. Terrell wrote:
> clifto wrote:
>> John Smith I wrote:
>> > Scott wrote:
>> >> clifto wrote:
>> >>> Stace MacGuyver wrote:
>> >>>> Suspend a thin shaving razor blade between two pieces of dental floss
>> >>>> and put
>> >>>> your ear close to the blade. Watch the razor vibrate.
>> >>>
>> >>> That's pretty cool, MacGuyver. Does the razor blade do anything?
>> >>
>> >> It cuts off your ear if you get too close ;)
>> >
>> > Be better if you could use it as an electric razor ...
>>
>> Replace the dental floss with Litz wire and attach ends to 110 VAC.
>>
>> Wait. Maybe not. Considering how many stations you can pick up with a
>> razor-blade radio, that would probably interfere with vital communications
>> all throughout the spectrum. What's the resonant frequency of a whisker?
>
>
>    They don't make the blue blades anymore.

Do they make any other kind of thin shaving razor blades?

--
        Martians drive SUVs! <http://oregonmag.com/MarsWarm307.html>


From 6377982911215306705
X-Google-Thread: fc2a5,a37ca7b0d72cc2da,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!8g2000cwh.googlegroups.com!not-for-
mail
From: "Scarlett" <wewe--00@163.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Wall Plate
Date: 13 Mar 2007 01:48:53 -0700
Organization: http://groups.google.com
Lines: 18
Message-ID: <1173775733.333257.179030@8g2000cwh.googlegroups.com>
NNTP-Posting-Host: 61.167.36.226
Mime-Version: 1.0
Content-Type: text/plain; charset="gb2312"
X-Trace: posting.google.com 1173775737 27360 127.0.0.1 (13 Mar 2007 08:48:57 GMT)
X-Complaints-To: groups-abuse@google.com
```

NNTP-Posting-Date: Tue, 13 Mar 2007 08:48:57 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 8g2000cwh.googlegroups.com; posting-host=61.167.36.226;
   posting-account=SaCbpw0AAADhcf6sklatFVaQ0ZSOoK-F
Xref: g2news1.google.com rec.radio.amateur.homebrew:12560

Middle Xi Zhou Time

This is an utensil of Wei family, with the height of 16.2cm, diameter is 47.3cm, depth of that is 8.6cm, Shi wall plate is a people named Wall in Wei family who made in order to memorize his ancestor so this utesil got its name by his maker.

Washing device, the disk structured modeling, exquisite ornamentation, mouth open, shallow belly, foot and abdominal laws ears; Phenix Veins her abdomen. make ends curly moire patterns foot circle, the whole device designs to Yunleiwen contrast, is fluent in the endeavor. Bottom tray engraved with the 18 firms birds, a total of 284 characters, recording Western Zhou Wen, Wu Chang,Kang, Zhao, Mu six kings for their important history and for the maker's family, and this is the longest bronze utensil since the foundation of New China, More infomation on www.tvsc.cn/zhonghuaxen
http://www.tvsc.cn/guangGao/

From -799425515957077932
X-Google-Thread: 106d41,e304b13f1d339edf
X-Google-Thread: fc2a5,ef5406dd4f13fbd5
X-Google-Attributes: gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q40g2000cwq.googlegroups.com!not-for-mail
From: "Telstar Electronics" <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor Module...
Date: 13 Mar 2007 04:49:37 -0700
Organization: http://groups.google.com
Lines: 7
Message-ID: <1173786577.173107.139410@q40g2000cwq.googlegroups.com>
References: <1172418983.391796.29810@j27g2000cwj.googlegroups.com>
   <02f4u2dl2aqe6sl4h5esv9l756bsad486o@4ax.com>
   <1172486782.793119.168670@j27g2000cwj.googlegroups.com>
   <1172580273.057551.203800@z35g2000cwz.googlegroups.com>
   <60c8u2hq13gqpqb65lbd6gloh5hlsamp7b@4ax.com>
   <1172610853.838313.57150@z35g2000cwz.googlegroups.com>
   <kgbbu2lr8met5tu56bomnscnltes9d8hh2@4ax.com>
   <20070228122542.789$Se@newsreader.com>
   <1172688931.272244.316320@q2g2000cwa.googlegroups.com>
   <m1ldu2l902p2enjp5eigu1rov0iovu2hjh@4ax.com>

```
   <1172785175.546043.212390@31g2000cwt.googlegroups.com>
   <1173205021.710286.22050@n33g2000cwc.googlegroups.com>
   <1173319868_4149@sp6iad.superfeed.net>
   <20070307215244.826$pU@newsreader.com>
   <1173328606_4675@sp6iad.superfeed.net>
   <20070307235408.794$EP@newsreader.com>
   <1173403805_11517@sp6iad.superfeed.net>
   <20070309203927.353$7q@newsreader.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173786581 22851 127.0.0.1 (13 Mar 2007 11:49:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 13 Mar 2007 11:49:41 +0000 (UTC)
In-Reply-To: <20070309203927.353$7q@newsreader.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q40g2000cwq.googlegroups.com; posting-host=216.203.30.4;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news1.google.com rec.radio.cb:34682 rec.radio.amateur.homebrew:12562
```

The first surface-mount printed circuit board has been finished... and is on order. One side of the board can be seen at
http://www.telstar-electronics.com/default_files/NewProductDevelopment.htm
Photos of a completed board and a preliminary specification will be available at the web site within ten days. Feel free to email me if you have specific questions....

```
From -4974024815971912025
X-Google-Thread: fc2a5,318fb3bc23ccaa99,start
X-Google-Thread: 111d0a,318fb3bc23ccaa99,start
X-Google-Thread: 112d1e,318fb3bc23ccaa99,start
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!wns13feed!
worldnet.att.net!63.218.45.10!nx01.iad01.newshosting.com!newshosting.com!
newsfeed.icl.net!newsfeed.fjserv.net!colt.net!feeder.news-service.com!
feeder2.cambrium.nl!feed.tweaknews.nl!border2.nntp.ams.giganews.com!
nntp.giganews.com!sn-xt-ams-06!sn-xt-ams-04!sn-post-ams-02!sn-post-sjc-01!
supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: VCXO frequency isn't high enough
Date: Tue, 13 Mar 2007 12:02:38 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vdm9fk86gbr98@news.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
```

```
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 32
Xref: g2news1.google.com rec.radio.amateur.homebrew:12563
sci.electronics.basics:47515 sci.electronics.design:205966
```

Hello all,

I was playing around and saw that my junk box had all the parts so I started tossing this together:
http://newenglandqrp.org/files/w1aw-receiver.jpg
The problem is (well I think it's a problem) is that I'm all the way down to a 10pF cap for the crystal trimmer and the highest frequency I can get out of it is still less than 3580kHz. Pleae correct me if I'm wrong, but I'm thinking that the 20uH inductor is supposed to pull the colorburst crystal high in frequency then the adjustable cap should be able to tweak it back down. Higher capicitance does result in even lower frequency. I made the 20uH inductor by wrapping 17 turns on an old amidon FT50-61 ferrite toroid. I don't have any way to measure the inductance, but by my calculations it should be approximately 20uH. Is the ferrite saturating and messing things up? I see that touching the 20uH inductor it will cause the frequency to shift down as much as 4-5kHz.

I believe this is direct conversion and that the crystal should exactly match the desired station (3581kHz) I want to recieve, that's right isn't it? Maybe this is close enough? I have to wait til tonight to see if I can actually hear anything.

I mostly tinker with PIC chips so this is pretty much out of my league. I just wanted to throw it together and listen to the nightly report. It seems to be working as I can touch the 7.8uH coil (40 turns on a T50-2 toroid) and I get increased noise out of pins 4 and 5 on the NE602 (hey it's what I had in the box ;-). I haven't added the 386 yet, I just wanted to test the front end first. I'm cramming it all on a RS 276-259 pc proto board, but the layout is coming along pretty well for not planning it out. ;-) Thanks for helping.

```
From -8547734183721573767
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!j27g2000cwj.googlegroups.com!not-for-
mail
From: "Telstar Electronics" <briangriffey@sbcglobal.net>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
```

Subject: Re: VCXO frequency isn't high enough
Date: 13 Mar 2007 10:20:26 -0700
Organization: http://groups.google.com
Lines: 38
Message-ID: <1173806426.220530.315050@j27g2000cwj.googlegroups.com>
References: <12vdm9fk86gbr98@news.supernews.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1173806432 11287 127.0.0.1 (13 Mar 2007 17:20:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 13 Mar 2007 17:20:32 +0000 (UTC)
In-Reply-To: <12vdm9fk86gbr98@news.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j27g2000cwj.googlegroups.com; posting-host=216.203.30.4;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news1.google.com rec.radio.amateur.homebrew:12564 sci.electronics.basics:47517 sci.electronics.design:205973

On Mar 13, 12:02 pm, "Anthony Fremont" <spam-...@nowhere.com> wrote:

> Hello all,
>
> I was playing around and saw that my junk box had all the parts so I started
> tossing this together:http://newenglandqrp.org/files/w1aw-receiver.jpg
> The problem is (well I think it's a problem) is that I'm all the way down to
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> high in frequency then the adjustable cap should be able to tweak it back
> down. Higher capicitance does result in even lower frequency. I made the
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> should be approximately 20uH. Is the ferrite saturating and messing things
> up? I see that touching the 20uH inductor it will cause the frequency to
> shift down as much as 4-5kHz.
>
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>
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> just wanted to throw it together and listen to the nightly report. It seems
> to be working as I can touch the 7.8uH coil (40 turns on a T50-2 toroid) and
> I get increased noise out of pins 4 and 5 on the NE602 (hey it's what I had
> in the box ;-). I haven't added the 386 yet, I just wanted to test the
> front end first. I'm cramming it all on a RS 276-259 pc proto board, but
> the layout is coming along pretty well for not planning it out. ;-) Thanks
> for helping.

It's interesting that I don't see that oscillator circuit arrangement
at http://www.ace.ual.es/~jgazquez/icons/ne602.pdf
I guess you're attempting to drag the xtal off freq? Why not just use
a tank?

www.telstar-electronics.com

From 229165022035741573
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!elnk-nf2-pas!elnk-pas-nf1!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!b1a104da!not-for-mail
Message-ID: <45F6F008.884217F0@earthlink.net>
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Reply-To: mike.terrell@earthlink.net
Organization: http://home.earthlink.net/~mike.terrell/
X-Mailer: Mozilla 4.76 [en] (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
<vtf5v25f1ba9s9u0tvdk02jehqtld9d1i4@4ax.com> <icabc4-m1h.ln1@remote.clifto.com>
<Wa2dnZxpQpvWYG_YnZ2dnUVZ_tninZ2d@bright.net>
<esv34q$24t$1@registered.motzarella.org> <mokbc4-f0i.ln1@remote.clifto.com>
<45F63D77.9C09CCD3@earthlink.net> <t9uhc4-vk2.ln1@remote.clifto.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 40
Date: Tue, 13 Mar 2007 18:40:06 GMT
NNTP-Posting-Host: 24.110.34.161
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1173811206 24.110.34.161 (Tue, 13 Mar
2007 11:40:06 PDT)
NNTP-Posting-Date: Tue, 13 Mar 2007 11:40:06 PDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:12565
sci.electronics.design:206015

clifto wrote:
>
> Michael A. Terrell wrote:
> > clifto wrote:
> >> John Smith I wrote:
> >> > Scott wrote:
> >> >> clifto wrote:
> >> >>> Stace MacGuyver wrote:
> >> >>>> Suspend a thin shaving razor blade between two pieces of dental floss

> >> >>>> and put
> >> >>>> your ear close to the blade. Watch the razor vibrate.
> >> >>>
> >> >>> That's pretty cool, MacGuyver. Does the razor blade do anything?
> >> >>
> >> >> It cuts off your ear if you get too close ;)
> >> >
> >> > Be better if you could use it as an electric razor ...
> >>
> >> Replace the dental floss with Litz wire and attach ends to 110 VAC.
> >>
> >> Wait. Maybe not. Considering how many stations you can pick up with a
> >> razor-blade radio, that would probably interfere with vital communications
> >> all throughout the spectrum. What's the resonant frequency of a whisker?
> >
> >
> >   They don't make the blue blades anymore.
>
> Do they make any other kind of thin shaving razor blades?

Yes, but the blueing was what made a detector.

--
Service to my country? Been there, Done that, and I've got my DD214 to
prove it.
Member of DAV #85.

Michael A. Terrell
Central Florida

From 4625218128174320735
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newshub.stanford.edu!sn-xt-sjc-03!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Tue, 13 Mar 2007 14:08:25 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vdtlbe191sgd0@news.supernews.com>
References: <12vdm9fk86gbr98@news.supernews.com>
<1173806426.220530.315050@j27g2000cwj.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028

```
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 21
Xref: g2news1.google.com rec.radio.amateur.homebrew:12566
sci.electronics.basics:47524 sci.electronics.design:206023
```

Telstar Electronics wrote:

> On Mar 13, 12:02 pm, "Anthony Fremont" <spam-...@nowhere.com> wrote:
>
> It's interesting that I don't see that oscillator circuit arrangement
> at http://www.ace.ual.es/~jgazquez/icons/ne602.pdf
> I guess you're attempting to drag the xtal off freq? Why not just use
> a tank?

Thanks for the reply. I should have been more clear, the desired frequency is 3581kHz so yes I need to pull the crystal up in frequency about 1.5kHz. Right now I'm only able to get to just under 3580. It seems that much inductance should have more effect than moving it up only about 500Hz, but this isn't my bag.

By tank I guess you mean to rid myself of the crystal and use an ordinary LC circuit? I think I can come up with something simple, but I'd rather just get this working if at all possible. Do you have any idea what impedance the 602 wants to see on it's oscillator? I have a couple more chips and I could try and cobble something together if I knew what impedance to target.

```
From 5910988385340502878
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 13 Mar 2007 15:16:45 -0500
From: "Charles Schuler" <charleschuler@comcast.net>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
References: <12vdm9fk86gbr98@news.supernews.com>
Subject: Re: VCXO frequency isn't high enough
Date: Tue, 13 Mar 2007 16:16:41 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <QdqdnQy2X9cwm2rYnZ2dnUVZ_u6rnZ2d@comcast.com>
Lines: 4
```

NNTP-Posting-Host: 68.47.152.181
X-Trace: sv3-lrJISkYI/KOpTIOqr/
nDElJuGTthiPfrDBpw5bN8UFmeaElVpTxgWQQ6qwGWoE8PAGAF9gon16+0JCZ!
rScg4aWW6WNPYfJeHQtWJtFJC0hvYm9Quyvq5v8BnPf65Bz276Ki13CrgHRQ6/hiiw8qbsjNurFn!
IPBjZJw++GLdeGX4Z+3QXz7FrdEPyQ==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12567
sci.electronics.basics:47528 sci.electronics.design:206038

Try going smaller than 10 pF (you can put a 10 pF fixed capacitor in series with the trimmer).

From 3429403706865424838
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe23.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
References: <12vdm9fk86gbr98@news.supernews.com>
Subject: Re: VCXO frequency isn't high enough
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <OVDJh.11198$_R.9637@newsfe23.lga>
Date: Tue, 13 Mar 2007 16:34:51 -0400
NNTP-Posting-Host: 68.0.230.54
X-Complaints-To: admin@cox.net
X-Trace: newsfe23.lga 1173818094 68.0.230.54 (Tue, 13 Mar 2007 13:34:54 MST)
NNTP-Posting-Date: Tue, 13 Mar 2007 13:34:54 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:12568
sci.electronics.basics:47531 sci.electronics.design:206045

"Anthony Fremont" <spam-not@nowhere.com> wrote in message
news:12vdm9fk86gbr98@news.supernews.com...
> Hello all,
>
> I was playing around and saw that my junk box had all the parts so I
> started

Get rid of the series choke and just use the small value variable
capacitor to go higher in frequency. I believe the inductance will
lower the frequency--the combination works to give an increased
VXCO range if I am not mistaken.

Pete k1zjh

From -2341026704473118412
X-Google-Thread: fc2a5,6d32b50bab152c3b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 13 Mar 2007 16:02:06 -0500
Reply-To: "J. Mc Laughlin" <jcm@power-net.net>
From: "J. Mc Laughlin" <jcm@power-net.net>
Newsgroups: rec.radio.amateur.homebrew
References: <12u7ae1r9mhe38d@corp.supernews.com>
<1172613479.628443.327630@m58g2000cwm.googlegroups.com>
Subject: Re: Racal RA6790/GM GPIB Codes
Date: Tue, 13 Mar 2007 17:02:05 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <ZuadnSYDAsjSjGrYnZ2dnUVZ_tadnZ2d@bright.net>
Lines: 54
NNTP-Posting-Host: 216.111.206.20
X-Trace: sv3-E2apsFUUJ6+MOu8POyJiQr/
ObgzRqKOUdiWuZH5UntYAGTey2KvUPZlq83jtUFtbJF8vpgyl6W0NvOh!JCZxSnTdnIM/
uVoAdD7iwe06GOpc5a1eCUwECcoCs139ijSDXp9LQ27Xb4MmpvwIRZpEGV711E1D!IaKWNMRPCGk=
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12569

Dear Joe: My ISP had a serious problem with the news server and only this
afternoon have I been able to get to this group.

While my ISP's server was down, I was able to read a slightly garbled copy of your helpful message using Yahoo. Unfortunately, E-mail addresses were smeared. So, I did a Google search for a "Gary" who was associated with RACAL, and eventually had success.

I asked Gary about the 488 codes and, a few days latter, he sent me a well formatted list. I intend to exercise the codes as soon as I get a break and then get back with Gary to confirm/expand on the codes.

This is a long way to say thank you to Joe WA9LAE and to Gary.

I also thank Dan Rae who noted that some of the manuals contain the information.

73,   Mac   N8TT

--
J. Mc Laughlin;   Michigan U.S.A.
Home: JCM@Power-Net.Net
"Joe" <toptyp19@mindspring.com> wrote in message
news:1172613479.628443.327630@m58g2000cwm.googlegroups.com...
> Ask Gary, gewingerd@netzero.com, he's the 6790 guru. A former Racal
> service tech.
> GL, Joe-WA9LAE.
>
>
>
> J. Mc Laughlin wrote:
> > I am looking for the complete set of codes that are sent to a Racal
> > RA6790/GM receiver via its stock GPIB (IEEE-488, HPIB) port.
$02F12.12345
> > changes the frequency of number 2 receiver (set with dip switch next to
the
> > GPIB socket on the receiver) to 12.12345 MHz.
> >
> >   The manual found on the Internet discusses the use of a serial port.
> >
> >   Google pointed to a site where a 232 to 488 converter was used to
> > control an earlier model of receiver that contains a GPIB module. Some
of
> > those codes do work with the RA6790/GM.
> >
> >   Pointers to the information will be appreciated.
> >
> >   73,   Mac   N8TT
> > --
> > J. Mc Laughlin;   Michigan U.S.A.
> > Home: JCM@Power-Net.Net
>

From 551560465896292669
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-online.de!newsfeed.vmunix.org!peer-uk.news.demon.net!kibo.news.demon.net!news.demon.co.uk!demon!g3ohx.demon.co.uk!IanJacksonRemoveThisBit
From: Ian Jackson <IanJacksonRemoveThisBit@g3ohx.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Tue, 13 Mar 2007 21:12:56 +0000
Lines: 30
Message-ID: <y+m$HfHYPx9FFwyu@g3ohx.demon.co.uk>
References: <12vdm9fk86gbr98@news.supernews.com>
 <OVDJh.11198$_R.9637@newsfe23.lga>
Reply-To: Ian Jackson <IanJackson@REMOVE-THIS-BITg3ohx.demon.co.uk>
NNTP-Posting-Host: g3ohx.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1173820398 2357 80.176.138.122 (13 Mar 2007 21:13:18 GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Tue, 13 Mar 2007 21:13:18 +0000 (UTC)
User-Agent: Turnpike/6.02-S (<TJ0VKlySlxi7kGP8bkzInRG7RW>)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12570 sci.electronics.basics:47537 sci.electronics.design:206059

In message <OVDJh.11198$_R.9637@newsfe23.lga>, Uncle Peter <radioconnection@cox.net> writes

>
>"Anthony Fremont" <spam-not@nowhere.com> wrote in message
>news:12vdm9fk86gbr98@news.supernews.com...
>> Hello all,
>>
>> I was playing around and saw that my junk box had all the parts so I
>> started
>
>Get rid of the series choke and just use the small value variable
>capacitor to go higher in frequency. I believe the inductance will
>lower the frequency--the combination works to give an increased
>VXCO range if I am not mistaken.
>
>Pete k1zjh
>
>

If the series capacitor is very small, the oscillation will stop. In these circumstances, I have successfully pulled VHF crystals (3rd, 5th and 7th overtone, between 70 and 200MHz) HF by adding an inductor IN

PARALLEL with the crystal. The value will be somewhat less than that
required to neutralise (ie parallel resonate with) the parallel
capacitance of the crystal. The lower the inductance, the higher the
frequency.
Ian.

--

From -8883738175549106068
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!newsfeed-00.mathworks.com!peer-uk.news.demon.net!
kibo.news.demon.net!mutlu.news.demon.net!news.demon.co.uk!demon!not-for-mail
From: "Andrew Holme" <andrew@nospam.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Tue, 13 Mar 2007 21:27:55 -0000
Lines: 31
Message-ID: <et7508$12a$1$8300dec7@news.demon.co.uk>
References: <12vdm9fk86gbr98@news.supernews.com>
NNTP-Posting-Host: holmea.demon.co.uk
X-Trace: news.demon.co.uk 1173821256 1098 80.177.105.226 (13 Mar 2007 21:27:36
GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Tue, 13 Mar 2007 21:27:36 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Priority: 3
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MSMail-Priority: Normal
Xref: g2news1.google.com rec.radio.amateur.homebrew:12571
sci.electronics.basics:47541 sci.electronics.design:206068

"Anthony Fremont" <spam-not@nowhere.com> wrote in message
news:12vdm9fk86gbr98@news.supernews.com...
> Hello all,
>
> I was playing around and saw that my junk box had all the parts so I
> started tossing this together:
> http://newenglandqrp.org/files/w1aw-receiver.jpg
> The problem is (well I think it's a problem) is that I'm all the way down
> to a 10pF cap for the crystal trimmer and the highest frequency I can get
> out of it is still less than 3580kHz. Pleae correct me if I'm wrong, but
> I'm thinking that the 20uH inductor is supposed to pull the colorburst
> crystal high in frequency then the adjustable cap should be able to tweak

> it back down. Higher capicitance does result in even lower frequency. I
> made the 20uH inductor by wrapping 17 turns on an old amidon FT50-61
> ferrite toroid. I don't have any way to measure the inductance, but by my
> calculations it should be approximately 20uH.

You have a capacitor and inductor in series.
Capacitive reactance = -j/(wC)
Inductive reactance = +jwL
The net reactance [jwL-j/(wC)] may be capacitive (negative) or inductive (positive).

Reducing the inductor makes it less inductive i.e. more capacitive.
Reducing the capacitor also makes the net reactance more capacitive.

You turned your trimmer all the way down to 10pF and it wasn't enough, so try taking a few turns off the inductor.

```
From 7990189452845339701
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.glorb.com!newsfeed.esat.net!
news.indigo.ie!not-for-mail
From: Eamon Skelton <Xnospam@oceanfree.net>
Subject: Re: VCXO frequency isn't high enough
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
References: <12vdm9fk86gbr98@news.supernews.com>
User-Agent: pan 0.119 (Karma Hunters)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 19
Message-ID: <ebFJh.18554$j7.368943@news.indigo.ie>
Date: Tue, 13 Mar 2007 22:01:46 GMT
NNTP-Posting-Host: 86.41.146.104
X-Complaints-To: abuse@eircom.net
X-Trace: news.indigo.ie 1173823306 86.41.146.104 (Tue, 13 Mar 2007 22:01:46 GMT)
NNTP-Posting-Date: Tue, 13 Mar 2007 22:01:46 GMT
Organization: Eircom.Net http://www.eircom.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:12572
sci.electronics.basics:47543 sci.electronics.design:206080
```

On Tue, 13 Mar 2007 12:02:38 -0500, Anthony Fremont wrote:

> The problem is (well I think it's a problem) is that I'm all the way down to
> a 10pF cap for the crystal trimmer and the highest frequency I can get out

```
> of it is still less than 3580kHz.  Pleae correct me if I'm wrong, but I'm
> thinking that the 20uH inductor is supposed to pull the colorburst crystal
> high in frequency then the adjustable cap should be able to tweak it back
> down.

Use less inductance or replace it with a wire link.

73, Ed. EI9GQ.




--
Linux 2.6.18
Remove 'X' to reply by E-Mail


From 1053089535253940354
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe06.lga.POSTED!53ab2750!not-for-mail
From: Jamie <jamie_ka1lpa_not_valid_after_ka1lpa_@charter.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.4) Gecko/20030624
Netscape/7.1 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
References: <12vdm9fk86gbr98@news.supernews.com>
<1173806426.220530.315050@j27g2000cwj.googlegroups.com>
<12vdtlbe191sgd0@news.supernews.com>
In-Reply-To: <12vdtlbe191sgd0@news.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 33
Message-ID: <SxFJh.87$Ik4.8@newsfe06.lga>
X-Trace:
lalincmlnekeejjflhbgfpgcdpepfmkgnlmgongdkmgkipipfhhonkplebjknfkbbjmlhemfnkjfcpkeno
kfoejdhmnhfjaegpcoipjkkiblhpfcmppaiihlkinljgjeenfnojecgjgcfcij
NNTP-Posting-Date: Tue, 13 Mar 2007 15:25:54 MST
Date: Tue, 13 Mar 2007 18:33:19 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:12573
sci.electronics.basics:47548 sci.electronics.design:206094

Anthony Fremont wrote:
> Telstar Electronics wrote:
>
>>On Mar 13, 12:02 pm, "Anthony Fremont" <spam-...@nowhere.com> wrote:
>
```

```
>
>>It's interesting that I don't see that oscillator circuit arrangement
>>at http://www.ace.ual.es/~jgazquez/icons/ne602.pdf
>>I guess you're attempting to drag the xtal off freq? Why not just use
>>a tank?
>
>
> Thanks for the reply.  I should have been more clear, the desired frequency
> is 3581kHz so yes I need to pull the crystal up in frequency about 1.5kHz.
> Right now I'm only able to get to just under 3580.  It seems that much
> inductance should have more effect than moving it up only about 500Hz, but
> this isn't my bag.
>
> By tank I guess you mean to rid myself of the crystal and use an ordinary LC
> circuit?  I think I can come up with something simple, but I'd rather just
> get this working if at all possible.  Do you have any idea what impedance
> the 602 wants to see on it's oscillator?  I have a couple more chips and I
> could try and cobble something together if I knew what impedance to target.
>
>
You need to reduce the inductor.. that is causing a down swing in your freq.


--
"I'm never wrong, once i thought i was, but was mistaken"
Real Programmers Do things like this.
http://webpages.charter.net/jamie_5




From 6141811993665131381
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc03.POSTED!dd653b87!not-for-mail
From: Rich Grise <rich@example.net>
Subject: Re: Detecting Ultrasound
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table)
Message-Id: <pan.2007.03.13.22.43.24.703704@example.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
<vtf5v25f1ba9s9u0tvdk02jehqtld9d1i4@4ax.com> <icabc4-m1h.ln1@remote.clifto.com>
<Wa2dnZxpQpvWYG_YnZ2dnUVZ_tninZ2d@bright.net>
<esv34q$24t$1@registered.motzarella.org> <mokbc4-f0i.ln1@remote.clifto.com>
<45F63D77.9C09CCD3@earthlink.net> <t9uhc4-vk2.ln1@remote.clifto.com>
<45F6F008.884217F0@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 44
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Date: Tue, 13 Mar 2007 22:42:58 GMT
NNTP-Posting-Host: 71.103.107.248
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc03 1173825778 71.103.107.248 (Tue, 13 Mar 2007 18:42:58 EDT)
NNTP-Posting-Date: Tue, 13 Mar 2007 18:42:58 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:12574
sci.electronics.design:206110

On Tue, 13 Mar 2007 18:40:06 +0000, Michael A. Terrell wrote:
> clifto wrote:
>> Michael A. Terrell wrote:
>> > clifto wrote:
>> >> John Smith I wrote:
>> >> > Scott wrote:
>> >> >> clifto wrote:
>> >> >>> Stace MacGuyver wrote:
>> >> >>>> Suspend a thin shaving razor blade between two pieces of dental floss
>> >> >>>> and put
>> >> >>>> your ear close to the blade. Watch the razor vibrate.


I don't know how your sense organs are arranged, but I know that if I
dangle something next to my ear, it's terribly hard to watch it
simultaneously. ;-)



>> >> >>>
>> >> >>> That's pretty cool, MacGuyver. Does the razor blade do anything?
>> >> >>
>> >> >> It cuts off your ear if you get too close ;)
>> >> >
>> >> > Be better if you could use it as an electric razor ...
>> >>
>> >> Replace the dental floss with Litz wire and attach ends to 110 VAC.
>> >>
>> >> Wait. Maybe not. Considering how many stations you can pick up with a
>> >> razor-blade radio, that would probably interfere with vital communications
>> >> all throughout the spectrum. What's the resonant frequency of a whisker?
>> >
>> >    They don't make the blue blades anymore.
>>
>> Do they make any other kind of thin shaving razor blades?
>
>    Yes, but the blueing was what made a detector.

What does that have to do with dangling the blade from dental floss? Or,
for that matter, what does dangling a blade from dental floss even DO?

Thanks,
RIch
```

From 6650081671020474226
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!
cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe02.lga.POSTED!53ab2750!not-for-mail
From: Jamie <jamie_ka1lpa_not_valid_after_ka1lpa_@charter.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.4) Gecko/20030624
Netscape/7.1 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
<vtf5v25f1ba9s9u0tvdk02jehqtld9d1i4@4ax.com> <icabc4-m1h.ln1@remote.clifto.com>
<Wa2dnZxpQpvWYG_YnZ2dnUVZ_tninZ2d@bright.net>
<esv34q$24t$1@registered.motzarella.org> <mokbc4-f0i.ln1@remote.clifto.com>
<45F63D77.9C09CCD3@earthlink.net>
In-Reply-To: <45F63D77.9C09CCD3@earthlink.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 42
Message-ID: <p2GJh.45$j86.30@newsfe02.lga>
X-Trace:
nphhjmdkmllhpdkelhbgfpgcdpepfmkgepggpnplebmebhbpfhhonkplebjknfkbbjmlhemfnkjfcpkeno
kfoejdhmnhfjaegpcoipjkkiblhpfckbjkkmhmdblckiibenfnojecgjgcfcij
NNTP-Posting-Date: Tue, 13 Mar 2007 16:00:37 MST
Date: Tue, 13 Mar 2007 19:08:16 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:12575
sci.electronics.design:206122

Michael A. Terrell wrote:

> clifto wrote:
>
>>John Smith I wrote:
>>
>>>Scott wrote:
>>>
>>>>clifto wrote:
>>>>
>>>>>Stace MacGuyver wrote:
>>>>>
>>>>>>Suspend a thin shaving razor blade between two pieces of dental floss
>>>>>>and put
>>>>>>your ear close to the blade. Watch the razor vibrate.
>>>>>
>>>>>That's pretty cool, MacGuyver. Does the razor blade do anything?
>>>>

>>>>It cuts off your ear if you get too close ;)
>>>
>>>Be better if you could use it as an electric razor ...
>>
>>Replace the dental floss with Litz wire and attach ends to 110 VAC.
>>
>>Wait. Maybe not. Considering how many stations you can pick up with a
>>razor-blade radio, that would probably interfere with vital communications
>>all throughout the spectrum. What's the resonant frequency of a whisker?
>
>
>
>   They don't make the blue blades anymore.
>
>
Hmm. i was going to say, if it worked, it would be cutting edge
technology! :)

--
"I'm never wrong, once i thought i was, but was mistaken"
Real Programmers Do things like this.
http://webpages.charter.net/jamie_5

From 7219865934687338017
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.r-kom.de!
newsfeed.freenet.de!news.albasani.net!news.musoftware.de!feeder.z74.net!
news.z74.net!sn-xt-ams-06!sn-xt-ams-08!sn-ams!sn-feed-ams-02!sn-post-ams-02!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Tue, 13 Mar 2007 18:00:15 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12veb8176c9ed7@news.supernews.com>
References: <12vdm9fk86gbr98@news.supernews.com>
<ebFJh.18554$j7.368943@news.indigo.ie>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 27

Xref: g2news1.google.com rec.radio.amateur.homebrew:12576
sci.electronics.basics:47555 sci.electronics.design:206123

Eamon Skelton wrote:
> On Tue, 13 Mar 2007 12:02:38 -0500, Anthony Fremont wrote:
>
>
>> The problem is (well I think it's a problem) is that I'm all the way down to a 10pF cap for the crystal trimmer and the highest frequency I can get out of it is still less than 3580kHz. Pleae correct me if I'm wrong, but I'm thinking that the 20uH inductor is supposed to pull the colorburst crystal high in frequency then the adjustable cap should be able to tweak it back down.
>
> Use less inductance or replace it with a wire link.

I did this and now I'm up to 3580.050; an increase of about 70Hz or so.. I don't understand how this was designed to work. What is making the crystal oscillate above its design frequency? I thought the inductor had something to do with it, obviously not. Is it being operated in series mode instead of parallel?

I tried putting small cap in series with the adjustable one and that just greatly narrowed the tuning range and only slightly raised the frequency. It seemed to be getting unstable at that point as my old frequency counter started showing variations of quite a few hertz each update instead of remaining steady. It could be the amplitude is too low and the counter is missing ticks.

From 4729052150657387414
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-
media.com!hw-filter.lga!newsfe20.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
References: <12vdm9fk86gbr98@news.supernews.com>
<ebFJh.18554$j7.368943@news.indigo.ie> <12veb8176c9ed7@news.supernews.com>
Subject: Re: VCXO frequency isn't high enough
Lines: 49
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <_9GJh.2135$nh4.1967@newsfe20.lga>
Date: Tue, 13 Mar 2007 19:08:39 -0400
NNTP-Posting-Host: 68.0.230.54
X-Complaints-To: admin@cox.net
X-Trace: newsfe20.lga 1173827322 68.0.230.54 (Tue, 13 Mar 2007 16:08:42 MST)
NNTP-Posting-Date: Tue, 13 Mar 2007 16:08:42 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.homebrew:12577
sci.electronics.basics:47556 sci.electronics.design:206126

"Anthony Fremont" <spam-not@nowhere.com> wrote in message
news:12veb8176c9ed7@news.supernews.com...
> Eamon Skelton wrote:
>> On Tue, 13 Mar 2007 12:02:38 -0500, Anthony Fremont wrote:
>>
>>
>>> The problem is (well I think it's a problem) is that I'm all the way
>>> down to a 10pF cap for the crystal trimmer and the highest frequency
>>> I can get out of it is still less than 3580kHz. Pleae correct me if
>>> I'm wrong, but I'm thinking that the 20uH inductor is supposed to
>>> pull the colorburst crystal high in frequency then the adjustable
>>> cap should be able to tweak it back down.
>>
>> Use less inductance or replace it with a wire link.
>
> I did this and now I'm up to 3580.050; an increase of about 70Hz or so..
> I don't understand how this was designed to work. What is making the
> crystal oscillate above its design frequency? I thought the inductor had
> something to do with it, obviously not. Is it being operated in series
> mode instead of parallel?
>
> I tried putting small cap in series with the adjustable one and that just
> greatly narrowed the tuning range and only slightly raised the frequency.
> It seemed to be getting unstable at that point as my old frequency counter
> started showing variations of quite a few hertz each update instead of
> remaining steady. It could be the amplitude is too low and the counter is
> missing ticks.
>

If you want a VXCO, you use the capacitor and inductor to achieve
maximum range of the crystal frequency.

An inductor in series will lower the frequency.
A capacitor in series will raise the frequency.

Eliminate the coil and just use the series trimmer to see how
how high the crystal frequency can be raised before it becomes
unstable or quits oscillating.

As Ian suggested, you can add an inductor ACROSS the

crystal to raise the frequency. Think of the crystal as being
a parallel LC circuit (over simplification) and you'll
be better able to visualize how this works.

Try a few other color burst xtals in the circuit for the heck
of it. You may not be able to pull the crystal that far.

From 6426669101549113171
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!p15g2000hsd.googlegroups.com!not-for-mail
From: "Frank Raffaeli" <SNIPrf_man_frTHIS@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
Date: 13 Mar 2007 16:24:30 -0700
Organization: http://groups.google.com
Lines: 43
Message-ID: <1173828270.176684.326360@p15g2000hsd.googlegroups.com>
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
NNTP-Posting-Host: 66.68.157.146
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1173828271 4509 127.0.0.1 (13 Mar 2007 23:24:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 13 Mar 2007 23:24:31 +0000 (UTC)
In-Reply-To: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.2) Gecko/20070219 Firefox/2.0.0.2,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p15g2000hsd.googlegroups.com; posting-host=66.68.157.146;
   posting-account=Bm92SQwAAAAvPpnigg5o4tAkl1oSQdnG
Xref: g2news1.google.com rec.radio.amateur.homebrew:12578 sci.electronics.design:206137

On Mar 10, 9:18 am, p...@burridge8333.fsbusiness.co.uk wrote:
> Hi chaps,
>
> I suspect a neighbour of a friend of mine is using an ultrasonic bird-
> scarer to frighten off his pets. The man concerned won=B4t admit to it,
> but there are times when his dog and two cats just seem to get
> suddenly very distressed and hypermanic for no apparent reason. I`d
> like to at least eliminate this possibility before considering any
> others. So the question is, what=B4s the simplest way to detect
> ultrasound? My web research leads me to believe the area of interest
> is between 20 and 30khz. Most common bird scarers warble between these

> two limits which are of course above the range of human hearing. I=B4ve
> acquired an ultrasonic transducer that transmits on 41khz. If I couple
> this up to a wien-bridge oscillator trimmed to the same frequency, I
> figure I ought to be able to hear a warble if indeed this guy is using
> a birdscarer, because the difference between 41khz and 20khz-30khz
> will be audible to me. Is this feasible to "air mix" the two
> frequencies in this simple way and hear a result, or is something more
> complicated required?
> Thanks!

If you want to compress the range of 0-30 kHz to something like 0-12 kHz you can do that with a switched capacitor delay chip like the Panasonic MN3007.

It will work like the bat detector, except it won't need to clip and threshold the audio. You will need to use a slow ramped VCO (continually ramping the sampling frequency down) in order to do this.
There are some projects at:
http://www.geofex.com/
You may be able to adapt a flanger, for instance, to suit your purpose.

The control voltage to the sampling VCO will be a sawtooth wave. Unfortunately, you will hear the sawtooth period as an artifact in the output. Maybe you can filter it out.

I guess an all-digital solution is better ;-)

Frank Raffaeli

From 1331423566817770882
X-Google-Thread: 108122,772910ad849dc3cc
X-Google-Thread: fc2a5,772910ad849dc3cc
X-Google-Attributes: gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!130.81.64.211.MISMATCH!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe20.lga.POSTED!53ab2750!not-for-mail
Reply-To: "Uncle Peter" <radioconnectionREMOVE@cox.net>
From: "Uncle Peter" <radioconnection@cox.net>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <1170830367.837071@newsreg.cos.agilent.com> <45c9b1f7.864750900@news.madasafish.com> <K%6zh.17106$ji1.11786@newssvr12.news.prodigy.net> <eqj25r$kl1$1@theodyn.ncf.ca>
Subject: Re: 10.9 MHz IF?
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal

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X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <3tGJh.2138$nh4.1514@newsfe20.lga>
Date: Tue, 13 Mar 2007 19:29:00 -0400
NNTP-Posting-Host: 68.0.230.54
X-Complaints-To: admin@cox.net
X-Trace: newsfe20.lga 1173828543 68.0.230.54 (Tue, 13 Mar 2007 16:29:03 MST)
NNTP-Posting-Date: Tue, 13 Mar 2007 16:29:03 MST
Organization: Cox
Xref: g2news1.google.com rec.radio.amateur.equipment:11682
rec.radio.amateur.homebrew:12579


"Michael Black" <et472@FreeNet.Carleton.CA> wrote in message
news:eqj25r$kl1$1@theodyn.ncf.ca...
>   I remember ads (and a quick check
> didn't find one) of them touting a really good filter made by
> that company.  But I'm pretty certain it was in the 5MHz range
>
>  Michael  VE2BVW
>

Micheal

You have a good memory.  MHZ Electronics was dumping
5.9XX USB, LSB and CW filters in full page ads in Ham
Radio Magazine back in the late 70s or so if my memory
holds. I remember buying several of each for future projects
that never have materialized.

Pete





From 2845164855958l9716
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-
sjc-11!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Tue, 13 Mar 2007 18:34:55 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12ved90sl7k2708@news.supernews.com>
References: <12vdm9fk86gbr98@news.supernews.com>
<1173806426.220530.315050@j27g2000cwj.googlegroups.com>
```

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<12vdtlbe191sgd0@news.supernews.com> <SxFJh.87$Ik4.8@newsfe06.lga>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 10
Xref: g2news1.google.com rec.radio.amateur.homebrew:12580
sci.electronics.basics:47558 sci.electronics.design:206144
```

Jamie wrote:

> You need to reduce the inductor.. that is causing a down swing in
> your freq.

Thanks, I took it out and the frequency increased by only about 70Hz, but it did increase. :-) Do you know of anything else I can do to increase the frequency by about another couple of kcs?

```
From 1055135166710595433
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-
media.com!hw-filter.lga!newsfe05.lga.POSTED!53ab2750!not-for-mail
From: Jamie <jamie_ka1lpa_not_valid_after_ka1lpa_@charter.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.4) Gecko/20030624
Netscape/7.1 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
References: <12vdm9fk86gbr98@news.supernews.com>
<1173806426.220530.315050@j27g2000cwj.googlegroups.com>
<12vdtlbe191sgd0@news.supernews.com> <SxFJh.87$Ik4.8@newsfe06.lga>
<12ved90sl7k2708@news.supernews.com>
In-Reply-To: <12ved90sl7k2708@news.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 28
Message-ID: <YLGJh.622$oI2.379@newsfe05.lga>
X-Trace:
hikehalegljkcnnflhbgfpgcdpepfmkgahaaknkocolacmnofhhonkplebjknfkbbjmlhemfnkjfcpkeno
kfoejdhmnhfjaegpcoipjkkiblhpfcdoppejkfecmbnlbeenfnojecgjgcfcij
```

NNTP-Posting-Date: Tue, 13 Mar 2007 16:49:12 MST
Date: Tue, 13 Mar 2007 19:57:08 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:12581
sci.electronics.basics:47559 sci.electronics.design:206148

Anthony Fremont wrote:

> Jamie wrote:
>
>
>>You need to reduce the inductor.. that is causing a down swing in
>>your freq.
>
>
> Thanks, I took it out and the frequency increased by only about 70Hz, but it
> did increase. :-) Do you know of anything else I can do to increase the
> frequency by about another couple of kcs?
>
>

try a different Xstyle, it sounds like your at the limits..
   it's possible the chip has too much capacitance on the
osc legs, i suppose you could try a stand alone osc with a
high freq transistor to lower the cap. use a buffer on the
stage to drive the chip .
   Also, have you considered the board mounting? you could
have to much cap via your board construction.

--
"I'm never wrong, once i thought i was, but was mistaken"
Real Programmers Do things like this.
http://webpages.charter.net/jamie_5

From 7800625922110080506
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.glorb.com!news-in.ntli.net!
newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe2-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "colin" <colin.rowe1@ntworld.NOSPAM.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
References: <12vdm9fk86gbr98@news.supernews.com>
Subject: Re: VCXO frequency isn't high enough
Lines: 42
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028

X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <4PGJh.141$GI.126@newsfe2-gui.ntli.net>
Date: Tue, 13 Mar 2007 23:52:32 GMT
NNTP-Posting-Host: 82.1.178.213
X-Trace: newsfe2-gui.ntli.net 1173829952 82.1.178.213 (Tue, 13 Mar 2007 23:52:32 GMT)
NNTP-Posting-Date: Tue, 13 Mar 2007 23:52:32 GMT
Organization: NTL
Xref: g2news1.google.com rec.radio.amateur.homebrew:12582 sci.electronics.basics:47560 sci.electronics.design:206152

"Anthony Fremont" <spam-not@nowhere.com> wrote in message news:12vdm9fk86gbr98@news.supernews.com...
> Hello all,
>
> I was playing around and saw that my junk box had all the parts so I
> started tossing this together:
> http://newenglandqrp.org/files/w1aw-receiver.jpg
> The problem is (well I think it's a problem) is that I'm all the way down
> to a 10pF cap for the crystal trimmer and the highest frequency I can get
> out of it is still less than 3580kHz. Pleae correct me if I'm wrong, but
> I'm thinking that the 20uH inductor is supposed to pull the colorburst
> crystal high in frequency then the adjustable cap should be able to tweak
> it back down. Higher capicitance does result in even lower frequency. I
> made the 20uH inductor by wrapping 17 turns on an old amidon FT50-61
> ferrite toroid. I don't have any way to measure the inductance, but by my
> calculations it should be approximately 20uH. Is the ferrite saturating
> and messing things up? I see that touching the 20uH inductor it will
> cause the frequency to shift down as much as 4-5kHz.
>
> I believe this is direct conversion and that the crystal should exactly
> match the desired station (3581kHz) I want to recieve, that's right isn't
> it? Maybe this is close enough? I have to wait til tonight to see if I
> can actually hear anything.
>
> I mostly tinker with PIC chips so this is pretty much out of my league. I
> just wanted to throw it together and listen to the nightly report. It
> seems to be working as I can touch the 7.8uH coil (40 turns on a T50-2
> toroid) and I get increased noise out of pins 4 and 5 on the NE602 (hey
> it's what I had in the box ;-). I haven't added the 386 yet, I just
> wanted to test the front end first. I'm cramming it all on a RS 276-259
> pc proto board, but the layout is coming along pretty well for not
> planning it out. ;-) Thanks for helping.

maybe the Q of you inductor is too low, try an air core,
needs lots more turns, a trimmer core as a core is good too.

Also you should test it with the crystal shorted,
then when you get close to the frequency you want put the crystal back in.

Colin =^.^=

```
From 5433200967349655931
X-Google-Thread: fc2a5,7df6c49a19c050da,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
208.49.83.154.MISMATCH!uns-out.usenetserver.com!news.usenetserver.com!
pc02.usenetserver.com!FUSE.NET-a2kHrUvQQWlmc!not-for-mail
Date: Tue, 13 Mar 2007 21:21:31 -0400
From: jawod <jawod@fuse.net>
User-Agent: Mozilla Thunderbird 1.0.2 (Macintosh/20050317)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Old microwave
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <69f3a$45f74f17$d066b697$3793@FUSE.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 8
X-Trace: 69f3a45f74f1775c3133203793
Xref: g2news1.google.com rec.radio.amateur.homebrew:12583
```

I have an old kitchen microwave unit whose only fault is that the digital readout is broken. As a neophyte homebrew guy (kits only so far...Elecraft K2, etc), Is there anything worth salvaging from this unit?

Thanks!

John
AB8O

```
From 6435769689141179041
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!l77g2000hsb.googlegroups.com!not-for-
mail
From: "Arv" <arvid.evans@gmail.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: 13 Mar 2007 20:00:51 -0700
Organization: http://groups.google.com
Lines: 56
Message-ID: <1173841251.830064.140040@l77g2000hsb.googlegroups.com>
```

```
References: <12vdm9fk86gbr98@news.supernews.com>
   <4PGJh.141$GI.126@newsfe2-gui.ntli.net>
NNTP-Posting-Host: 71.32.182.171
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173841253 6009 127.0.0.1 (14 Mar 2007 03:00:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 14 Mar 2007 03:00:53 +0000 (UTC)
In-Reply-To: <4PGJh.141$GI.126@newsfe2-gui.ntli.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en; rv:1.8.1.2) Gecko/20060601
Epiphany/2.16 Firefox/2.0.0.2 (Ubuntu-edgy),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l77g2000hsb.googlegroups.com; posting-host=71.32.182.171;
   posting-account=j8G-ZQ0AAAArGSmSv5U2nhz6Vo5TeLQN
Xref: g2news1.google.com rec.radio.amateur.homebrew:12584
sci.electronics.basics:47572 sci.electronics.design:206219

On 13 Mar, 17:52, "colin" <colin.ro...@ntworld.NOSPAM.com> wrote:
> "Anthony Fremont" <spam-...@nowhere.com> wrote in message
>
> news:12vdm9fk86gbr98@news.supernews.com...
>
> > Hello all,
>
> > I was playing around and saw that my junk box had all the parts so I
> > started tossing this together:
> >http://newenglandqrp.org/files/w1aw-receiver.jpg
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> > crystal high in frequency then the adjustable cap should be able to tweak
> > it back down.  Higher capicitance does result in even lower frequency.  I
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>
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>
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> > seems to be working as I can touch the 7.8uH coil (40 turns on a T50-2
> > toroid) and I get increased noise out of pins 4 and 5 on the NE602 (hey
> > it's what I had in the box ;-).  I haven't added the 386 yet, I just
> > wanted to test the front end first.  I'm cramming it all on a RS 276-259
> > pc proto board, but the layout is coming along pretty well for not
> > planning it out.  ;-)  Thanks for helping.
```

>
> maybe the Q of you inductor is too low, try an air core,
> needs lots more turns, a trimmer core as a core is good too.
>
> Also you should test it with the crystal shorted,
> then when you get close to the frequency you want put the crystal back in.
>
> Colin =^.^=

My W1AW receiver uses the crystal with just a 5-47 pf variable capacitor...no inductor, and it nets right on frequency. Try shorting the inductor and see if this gets you closer to the required frequency. Not all color burst crystals were created equal. If you have another crystal you might want to try it.

Your ferrite will not be saturating at the small amount of signal you are sending through it as part of an SA-602 oscillator.

Arv - K7HKL
_._

```
From -2760782523505518687
X-Google-Thread: fc2a5,7df6c49a19c050da
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr19.news.prodigy.net.POSTED!35cb456c!not-for-
mail
From: "N9WOS" <N9WOS@nobug.sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <69f3a$45f74f17$d066b697$3793@FUSE.NET>
Subject: Re: Old microwave
Lines: 60
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Message-ID: <ECJJh.3869$tv6.1379@newssvr19.news.prodigy.net>
NNTP-Posting-Host: 66.72.68.111
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr19.news.prodigy.net 1173841444 ST000 66.72.68.111 (Tue, 13 Mar
2007 23:04:04 EDT)
NNTP-Posting-Date: Tue, 13 Mar 2007 23:04:04 EDT
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
[[PAPDCAOPUAW]TX]BCBNWX@RJ_XPDLMN@GZ_GYO^ZWZUYICD^RAQBKZQTZTX\_I[^G_KGFNON[ZOE_AZN
VO^\XGGNTCIRPIJH[@RQKBXLRZ@CD^HKANYVW@RLGEZEJN@\_WZJBNZYYKVIOR]T]MNMG_Z[YVWSCH_Q[G
PC_A@CARQVXDSDA^M]@DRVUM@RBM
Date: Tue, 13 Mar 2007 22:04:31 -0500
Xref: g2news1.google.com rec.radio.amateur.homebrew:12585
```

> I have an old kitchen microwave unit whose only fault is that the digital readout is broken. As a neophyte homebrew guy (kits only so far...Elecraft K2, etc), Is there anything worth salvaging from this unit?
>
> Thanks!
>
> John
> AB8O

Off the top of my head.......

The HV transformer. Output 1 to 2KV at several hundred to a thousand KVA

HV capacitor 1 to 2+ uF at several KV

HV diode. several KV PRV.

Magnetron..... I don't know what I could do with them, but I keep them anyway. Maybe if I ever get into plasma physics, or building my own fusion reactor, I'll be set.

A thermal limit switch that is mounted on the magnetron.

A set of large magnets that is mounted around the magnetron. The outer magnetron casing can usually be disassembled to remove them. They can be used to make generators and the like.

If you do remove the magnets from the magnetron, don't throw away the actual magnetron tube. With out the magnets, it acts like a normal vacuum tube diode. with a PRV of several KV, and a peak cathode current of up to an amp, a pare of them would work good in a HV power supply. Filament voltage is usually a couple volts at a few amps.

Several NO switches on the door for safety interlocks, and timer control.

A relay, or high power triac for controlling power to the transformer and magnetron.

A light bulb that lights the inside of the microwave.

A fuse or two. Will save you a trip to town if you have another project that blows a fuse at an inopportune time.

Sometimes a smaller transformer with about 4 to 12V ac output for powering the timer/display.

If you are into getting the last drop out of a salvage mission, then you can usually get a moderate number of transistors and diodes off the timer/display board.

The only problem I have found with doing the last thing on the list, is you tear the microwave apart, then the last thing you do is go after the timer

board. When you get done pulling all the parts off of it, and you test them
to find out what they are. (NPN, PNP........) you find one that is
bad.......... Then it hits you........That component ran the this and
that....... That bad component is why the microwave wasn't working.......
Then you have to decide if it is worth putting it all back together after
you find out what died........ I usually don't.

From -8151230821575962668
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-
mail
NNTP-Posting-Date: Tue, 13 Mar 2007 22:31:18 -0500
From: John Fields <jfields@austininstruments.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Tue, 13 Mar 2007 22:31:18 -0500
Organization: Austin Instruments, Inc
Message-ID: <2gqev2lgj47683bgks9jkeqe1smb0k896e@4ax.com>
References: <12vdm9fk86gbr98@news.supernews.com>
<ebFJh.18554$j7.368943@news.indigo.ie> <12veb8176c9ed7@news.supernews.com>
X-Newsreader: Forte Agent 2.0/32.652
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 37
X-Trace: sv3-yuLom63vfXbvjAZ3FEjnrjvmEm1f8A6f/
GPDX84skUIDRJlTak1Ijxb1mBY36aHBU2E7vNvgh5+91On!E4cPo8LqUcOmk/
qDGoFW2kFuAHzdj7KHFwHKdaDRF9qD7hTbec1A8AEJEg5YCNjV3lVzTeQ=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12586
sci.electronics.basics:47576 sci.electronics.design:206229

On Tue, 13 Mar 2007 18:00:15 -0500, "Anthony Fremont"
<spam-not@nowhere.com> wrote:

>Eamon Skelton wrote:
>> On Tue, 13 Mar 2007 12:02:38 -0500, Anthony Fremont wrote:
>>
>>

```
>>> The problem is (well I think it's a problem) is that I'm all the way
>>> down to a 10pF cap for the crystal trimmer and the highest frequency
>>> I can get out of it is still less than 3580kHz.  Pleae correct me if
>>> I'm wrong, but I'm thinking that the 20uH inductor is supposed to
>>> pull the colorburst crystal high in frequency then the adjustable
>>> cap should be able to tweak it back down.
>>
>> Use less inductance or replace it with a wire link.
>
>I did this and now I'm up to 3580.050; an increase of about 70Hz or so..  I
>don't understand how this was designed to work.  What is making the crystal
>oscillate above its design frequency?  I thought the inductor had something
>to do with it, obviously not.  Is it being operated in series mode instead
>of parallel?
>
>I tried putting small cap in series with the adjustable one and that just
>greatly narrowed the tuning range and only slightly raised the frequency.
>It seemed to be getting unstable at that point as my old frequency counter
>started showing variations of quite a few hertz each update instead of
>remaining steady.  It could be the amplitude is too low and the counter is
>missing ticks.

---
Your color burst crystal is ground to ring at 3.579545 MHz, and if
you try to run it at another frequency you'll run into drive and
tempco problems which will make it worthless.


--
JF


From 6179643336583012491
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 14 Mar 2007 00:32:41 -0500
Message-Id: <etdkc4-c5q.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: Re: Detecting Ultrasound
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Followup-To: rec.radio.amateur.homebrew
Date: Wed, 14 Mar 2007 00:30:54 -0500
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
<vtf5v25f1ba9s9u0tvdk02jehqtld9d1i4@4ax.com> <icabc4-m1h.ln1@remote.clifto.com>
<Wa2dnZxpQpvWYG_YnZ2dnUVZ_tninZ2d@bright.net>
<esv34q$24t$1@registered.motzarella.org> <mokbc4-f0i.ln1@remote.clifto.com>
<45F63D77.9C09CCD3@earthlink.net> <p2GJh.45$j86.30@newsfe02.lga>
Organization: Vast Right-Wing Conspiracy
```

```
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 33
NNTP-Posting-Host: 24.15.127.46
X-Trace: sv3-
rQImaLmTTEEeZuRWeCjhiNy9JTjb86rCvgc7C6SsUzPYlMM9yjklwlvLwh+cQVv1IyLiJDHQuzwaOH/!
d9LdBt3C5rbPMZASvcq14TlsNxDDy8pzOaCS5K4gUgv3cMjE02HH0E9YE8yO5ErJlgN9r1+GEhHx!
W4YLhvqWxtni
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12587
sci.electronics.design:206257

Jamie wrote:
> Michael A. Terrell wrote:
>> clifto wrote:
>>>John Smith I wrote:
>>>>Scott wrote:
>>>>>clifto wrote:
>>>>>>Stace MacGuyver wrote:
>>>>>>>Suspend a thin shaving razor blade between two pieces of dental floss
>>>>>>>and put
>>>>>>>your ear close to the blade. Watch the razor vibrate.
>>>>>>
>>>>>>That's pretty cool, MacGuyver. Does the razor blade do anything?
>>>>>
>>>>>It cuts off your ear if you get too close ;)
>>>>
>>>>Be better if you could use it as an electric razor ...
>>>
>>>Replace the dental floss with Litz wire and attach ends to 110 VAC.
>>>
>>>Wait. Maybe not. Considering how many stations you can pick up with a
>>>razor-blade radio, that would probably interfere with vital communications
>>>all throughout the spectrum. What's the resonant frequency of a whisker?
>>
>>    They don't make the blue blades anymore.
>>
>>
> Hmm. i was going to say, if it worked, it would be cutting edge
> technology! :)

A sharp observation indeed.

-- 
        Martians drive SUVs! <http://oregonmag.com/MarsWarm307.html>
```

From -5096932935891239715
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newshub.stanford.edu!sn-xt-sjc-03!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Wed, 14 Mar 2007 04:56:57 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vfhnc4uu0que5@news.supernews.com>
References: <12vdm9fk86gbr98@news.supernews.com>
<1173806426.220530.315050@j27g2000cwj.googlegroups.com>
<12vdtlbe191sgd0@news.supernews.com> <SxFJh.87$Ik4.8@newsfe06.lga>
<12ved90sl7k2708@news.supernews.com> <YLGJh.622$oI2.379@newsfe05.lga>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 24
Xref: g2news1.google.com rec.radio.amateur.homebrew:12588
sci.electronics.basics:47588 sci.electronics.design:206281

Jamie wrote:
> Anthony Fremont wrote:

>> Thanks, I took it out and the frequency increased by only about
>> 70Hz, but it did increase. :-) Do you know of anything else I can
>> do to increase the frequency by about another couple of kcs?
>>
>>
> try a different Xstyle, it sounds like your at the limits..
>   it's possible the chip has too much capacitance on the
> osc legs, i suppose you could try a stand alone osc with a
> high freq transistor to lower the cap. use a buffer on the
> stage to drive the chip .
>   Also, have you considered the board mounting? you could
> have to much cap via your board construction.

Looks like you are quite likely correct. Without the inductor and with a
10pF cap in place of the variable cap, I can get the frequency up to just
over 3580kHz. I did some looking around and it appears that if I were to
parallel another crystal, I could get a bigger spread on frequency. Or I
could just try a different crystal too. I think I will tinker on a
breadboard to see how high in frequency I can get the crystal to vibrate.

```
From -4764170614712497637
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!newsfeed.icl.net!
newsfeed.fjserv.net!newsfeed.freenet.de!news.albasani.net!news.ecp.fr!
news.in2p3.fr!in2p3.fr!proxad.net!exabot.com!freenix!sn-xt-sjc-04!sn-xt-sjc-06!sn-
post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Wed, 14 Mar 2007 04:58:52 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vfhqv5i9d7a4b@news.supernews.com>
References: <12vdm9fk86gbr98@news.supernews.com>
<QdqdnQy2X9cwm2rYnZ2dnUVZ_u6rnZ2d@comcast.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 9
Xref: g2news1.google.com rec.radio.amateur.homebrew:12589
sci.electronics.basics:47589 sci.electronics.design:206282
```

Charles Schuler wrote:

> Try going smaller than 10 pF (you can put a 10 pF fixed capacitor in
> series with the trimmer).

I did this and it will go slightly higher in frequency, but it gets a tad unstable (could be the counter too, I wish my new scope would get here). I guess I'm at the limits of that particular crystal.

```
From 4019572918342922908
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-05!sn-xt-sjc-11!sn-xt-sjc-08!
sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
```

```
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Wed, 14 Mar 2007 05:06:09 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vfi8jr4e2b6cd@news.supernews.com>
References: <12vdm9fk86gbr98@news.supernews.com>
<OVDJh.11198$_R.9637@newsfe23.lga> <y+m$HfHYPx9FFwyu@g3ohx.demon.co.uk>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 25
Xref: g2news1.google.com rec.radio.amateur.homebrew:12590
sci.electronics.basics:47590 sci.electronics.design:206283

Ian Jackson wrote:
> In message <OVDJh.11198$_R.9637@newsfe23.lga>, Uncle Peter

>> Get rid of the series choke and just use the small value variable
>> capacitor to go higher in frequency. I believe the inductance will
>> lower the frequency--the combination works to give an increased
>> VXCO range if I am not mistaken.

> If the series capacitor is very small, the oscillation will stop. In
> these circumstances, I have successfully pulled VHF crystals (3rd, 5th

It hasn't stopped, but it has gotten weak or unstable (I can't be sure right
now) with capacitance below 10pF.

> and 7th overtone, between 70 and 200MHz) HF by adding an inductor IN
> PARALLEL with the crystal. The value will be somewhat less than that
> required to neutralise (ie parallel resonate with) the parallel
> capacitance of the crystal. The lower the inductance, the higher the
> frequency.

Are you referring to the capacitance inside the crystal, or the 100pF
external cap?  Do you have a ballpark number on the inductance value I
should try?




From 3432664999164817751
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newshub.stanford.edu!sn-xt-sjc-03!sn-xt-
sjc-08!sn-post-sjc-02!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
```

From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Wed, 14 Mar 2007 05:12:18 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vfik5ajmt7265@news.supernews.com>
References: <12vdm9fk86gbr98@news.supernews.com>
<et7508$12a$1$8300dec7@news.demon.co.uk>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 38
Xref: g2news1.google.com rec.radio.amateur.homebrew:12591
sci.electronics.basics:47592 sci.electronics.design:206284

Andrew Holme wrote:
> "Anthony Fremont" <spam-not@nowhere.com> wrote in message
> news:12vdm9fk86gbr98@news.supernews.com...
>> Hello all,
>>
>> I was playing around and saw that my junk box had all the parts so I
>> started tossing this together:
>> http://newenglandqrp.org/files/w1aw-receiver.jpg
>> The problem is (well I think it's a problem) is that I'm all the way
>> down to a 10pF cap for the crystal trimmer and the highest frequency
>> I can get out of it is still less than 3580kHz. Pleae correct me if
>> I'm wrong, but I'm thinking that the 20uH inductor is supposed to
>> pull the colorburst crystal high in frequency then the adjustable
>> cap should be able to tweak it back down. Higher capicitance does
>> result in even lower frequency. I made the 20uH inductor by
>> wrapping 17 turns on an old amidon FT50-61 ferrite toroid. I don't
>> have any way to measure the inductance, but by my calculations it
>> should be approximately 20uH.
>
> You have a capacitor and inductor in series.
> Capacitive reactance = -j/(wC)
> Inductive reactance = +jwL
> The net reactance [jwL-j/(wC)] may be capacitive (negative) or
> inductive (positive).

I understand that, but I don't use values like j and w, just 2, f and PI.
;-)

> Reducing the inductor makes it less inductive i.e. more capacitive.
> Reducing the capacitor also makes the net reactance more capacitive.
>
> You turned your trimmer all the way down to 10pF and it wasn't
> enough, so try taking a few turns off the inductor.

I took it out, and it's still too low in frequency. :-(Back to the drawing board I guess.

From 6098486631757144964
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Wed, 14 Mar 2007 05:19:01 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vfj0ot3n1j0c@news.supernews.com>
References: <12vdm9fk86gbr98@news.supernews.com> <ebFJh.18554$j7.368943@news.indigo.ie> <12veb8176c9ed7@news.supernews.com> <_9GJh.2135$nh4.1967@newsfe20.lga>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 55
Xref: g2news1.google.com rec.radio.amateur.homebrew:12592 sci.electronics.basics:47593 sci.electronics.design:206287

Uncle Peter wrote:
> "Anthony Fremont" <spam-not@nowhere.com> wrote in message

>>> Use less inductance or replace it with a wire link.
>>
>> I did this and now I'm up to 3580.050; an increase of about 70Hz or
>> so.. I don't understand how this was designed to work. What is
>> making the crystal oscillate above its design frequency? I thought
>> the inductor had something to do with it, obviously not. Is it
>> being operated in series mode instead of parallel?
>>
>> I tried putting small cap in series with the adjustable one and that
>> just greatly narrowed the tuning range and only slightly raised the
>> frequency. It seemed to be getting unstable at that point as my old
>> frequency counter started showing variations of quite a few hertz
>> each update instead of remaining steady. It could be the amplitude
>> is too low and the counter is missing ticks.
>>

>
> If you want a VXCO, you use the capacitor and inductor to achieve
> maximum range of the crystal frequency.
>
> An inductor in series will lower the frequency.

Ok, just like an antenna

> A capacitor in series will raise the frequency.

Same thing again, just like an antenna. However, when I increase the series capacitance, the frequency drops instead of going higher. This I don't really get.

> Eliminate the coil and just use the series trimmer to see how
> how high the crystal frequency can be raised before it becomes
> unstable or quits oscillating.

Did this, it helps, but when capacitance is below about 10pF, it seems to get unstable and I still can't achieve the frequency I desire.

> As Ian suggested, you can add an inductor ACROSS the
> crystal to raise the frequency. Think of the crystal as being
> a parallel LC circuit (over simplification) and you'll
> be better able to visualize how this works.

Can you suggest a value to start with?

> Try a few other color burst xtals in the circuit for the heck
> of it. You may not be able to pull the crystal that far.

That's what I'm thinking now, it just won't pull that far high. I can sure pull it low though. Maybe I should try a 4MHz crystal and pull it down to 3990, this is where the voice transmissions are anyway.

```
From -3970597578491319690
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-05!sn-xt-sjc-07!sn-post-sjc-02!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Wed, 14 Mar 2007 05:38:44 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vfk5n2i2lt3a0@news.supernews.com>
```

References: <12vdm9fk86gbr98@news.supernews.com>
<ebFJh.18554$j7.368943@news.indigo.ie> <12veb8176c9ed7@news.supernews.com>
<2gqev2lgj47683bgks9jkeqe1smb0k896e@4ax.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 48
Xref: g2news1.google.com rec.radio.amateur.homebrew:12593
sci.electronics.basics:47595 sci.electronics.design:206294

John Fields wrote:
> On Tue, 13 Mar 2007 18:00:15 -0500, "Anthony Fremont"
> <spam-not@nowhere.com> wrote:
>
>> Eamon Skelton wrote:
>>> On Tue, 13 Mar 2007 12:02:38 -0500, Anthony Fremont wrote:
>>>
>>>
>>>> The problem is (well I think it's a problem) is that I'm all the
>>>> way down to a 10pF cap for the crystal trimmer and the highest
>>>> frequency I can get out of it is still less than 3580kHz. Pleae
>>>> correct me if I'm wrong, but I'm thinking that the 20uH inductor
>>>> is supposed to pull the colorburst crystal high in frequency then
>>>> the adjustable cap should be able to tweak it back down.
>>>
>>> Use less inductance or replace it with a wire link.
>>
>> I did this and now I'm up to 3580.050; an increase of about 70Hz or
>> so.. I don't understand how this was designed to work. What is
>> making the crystal oscillate above its design frequency? I thought
>> the inductor had something to do with it, obviously not. Is it
>> being operated in series mode instead of parallel?
>>
>> I tried putting small cap in series with the adjustable one and that
>> just greatly narrowed the tuning range and only slightly raised the
>> frequency. It seemed to be getting unstable at that point as my old
>> frequency counter started showing variations of quite a few hertz
>> each update instead of remaining steady. It could be the amplitude
>> is too low and the counter is missing ticks.
>
> ---
> Your color burst crystal is ground to ring at 3.579545 MHz, and if
> you try to run it at another frequency you'll run into drive and
> tempco problems which will make it worthless.

I know that I'm "violating the specs", but that's the intent here. Most of the circuits I've encountered tend to pull the xtal down in frequency (just add capacitance), but this case is odd in that W1AW transmits just above the colorburst frequency. I can pull it down several kcs pretty easily, I just can't get it above the specced value by more than about 500Hz. I think I just need to try a different crystal or maybe two in parallel. The parallel inductance idea is interesting as well, never done anything like that before.

As for stability, as long as it's not causing warbling audio, I'm not too concerned. :-)

From -5123451586216302039
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!news.albasani.net!newsfeed.datemas.de!news.datemas.de!not-for-mail
From: Jan Panteltje <pNaonStpealmtje@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
Date: Wed, 14 Mar 2007 10:58:56 GMT
Organization: Datemas.de http://www.datemas.de
Lines: 21
Message-ID: <et8khi$hfq$1@news.datemas.de>
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com> <vtf5v25f1ba9s9u0tvdk02jehqtld9d1i4@4ax.com> <icabc4-m1h.ln1@remote.clifto.com> <Wa2dnZxpQpvWYG_YnZ2dnUVZ_tninZ2d@bright.net> <esv34q$24t$1@registered.motzarella.org> <mokbc4-f0i.ln1@remote.clifto.com> <45F63D77.9C09CCD3@earthlink.net> <t9uhc4-vk2.ln1@remote.clifto.com> <45F6F008.884217F0@earthlink.net> <pan.2007.03.13.22.43.24.703704@example.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Trace: news.datemas.de U3s1JhG1kaNNgIlUwLj14OLAxJykDVIIXqyVmWPOA0w3SynXKuZyI49yAcv/7In8tByBHMp7mAZfLQ+H7YX+4ghB16sstJ2e8HNu79ugJE7Q1vs9q0DBAO6VOIw/Gzv1dfXrqQC1Bo7J1+//CXF9DSiNEfklpT8x/ZGiWQGNTpI=
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Wed, 14 Mar 2007 10:58:58 +0000 (UTC)
X-Newsreader-location: NewsFleX-1.5.7.2 (c) 'LIGHTSPEED' off line news reader for the Linux platform
 NewsFleX homepage: http://panteltje.com/panteltje/newsflex/ and ftp download ftp://sunsite.unc.edu/pub/linux/system/news/readers/
User-Agent: NewsFleX-1.5.7.2 (Linux-2.6.17.9)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12594 sci.electronics.design:206297

On a sunny day (Tue, 13 Mar 2007 22:42:58 GMT) it happened Rich Grise <rich@example.net> wrote in <pan.2007.03.13.22.43.24.703704@example.net>:

>On Tue, 13 Mar 2007 18:40:06 +0000, Michael A. Terrell wrote:
>> clifto wrote:

```
>>> Michael A. Terrell wrote:
>>> > clifto wrote:
>>> >> John Smith I wrote:
>>> >> > Scott wrote:
>>> >> >> clifto wrote:
>>> >> >>> Stace MacGuyver wrote:
>>> >> >>>> Suspend a thin shaving razor blade between two pieces of dental floss
>>> >> >>>> and put
>>> >> >>>> your ear close to the blade. Watch the razor vibrate.
>
>
>I don't know how your sense organs are arranged, but I know that if I
>dangle something next to my ear, it's terribly hard to watch it
>simultaneously. ;-)

Mirror, webcam, helper,



From 8787523935469015981
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!p15g2000hsd.googlegroups.com!not-for-
mail
From: "Andrew VK3BFA" <ablight@alphalink.com.au>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
Date: 14 Mar 2007 04:17:46 -0700
Organization: http://groups.google.com
Lines: 43
Message-ID: <1173871066.544376.91060@p15g2000hsd.googlegroups.com>
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
   <lcf5v210tvuhb1th6k0ttdf0bodo44o9sj@4ax.com>
NNTP-Posting-Host: 218.215.135.72
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1173871068 17712 127.0.0.1 (14 Mar 2007 11:17:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 14 Mar 2007 11:17:48 +0000 (UTC)
In-Reply-To: <lcf5v210tvuhb1th6k0ttdf0bodo44o9sj@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.1.2) Gecko/
20070219 Firefox/2.0.0.2,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p15g2000hsd.googlegroups.com; posting-host=218.215.135.72;
   posting-account=EWANPAwAAAAIMf8u_DoGHaMCx0gCEW5D
Xref: g2news1.google.com rec.radio.amateur.homebrew:12595
sci.electronics.design:206304

On Mar 11, 1:19 am, PeterD <pet...@hipson.net> wrote:
> On 10 Mar 2007 05:18:34 -0800, p...@burridge8333.fsbusiness.co.uk
```

> wrote:
>
>
>
> >Hi chaps,
>
> >I suspect a neighbour of a friend of mine is using an ultrasonic bird-
> >scarer to frighten off his pets. The man concerned won=B4t admit to it,
> >but there are times when his dog and two cats just seem to get
> >suddenly very distressed and hypermanic for no apparent reason. I`d
> >like to at least eliminate this possibility before considering any
> >others. So the question is, what=B4s the simplest way to detect
> >ultrasound? My web research leads me to believe the area of interest
> >is between 20 and 30khz. Most common bird scarers warble between these
> >two limits which are of course above the range of human hearing. I=B4ve
> >acquired an ultrasonic transducer that transmits on 41khz. If I couple
> >this up to a wien-bridge oscillator trimmed to the same frequency, I
> >figure I ought to be able to hear a warble if indeed this guy is using
> >a birdscarer, because the difference between 41khz and 20khz-30khz
> >will be audible to me. Is this feasible to "air mix" the two
> >frequencies in this simple way and hear a result, or is something more
> >complicated required?
> >Thanks!
>
> Why worry about it... His yard, his pets, his life...
>
> OK,
>
> Take a microphone with a frequency response > 30Khz, and an amplifer.
> Monitor the amp's output with a scope. <bg>

Agree. Even a bog standard electret for $1 will do it - probably
wouldn't even need an amplifier......if you want to get sophisticated,
put it in the end of a piece of 30mm plastic pipe - voila, directional
microphone....

The alternative is you are just being paranoid......but I know you
know that anyway...

Andrew VK3BFA.

From -1890726475275899955
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newshub.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-03!sn-xt-sjc-01!sn-post-sjc-01!
supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>

Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Wed, 14 Mar 2007 06:26:39 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vfmvi8f8ha4dd@news.supernews.com>
References: <12vdm9fk86gbr98@news.supernews.com>   <4PGJh.141$GI.126@newsfe2-gui.ntli.net> <1173841251.830064.140040@l77g2000hsb.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 23
Xref: g2news1.google.com rec.radio.amateur.homebrew:12596
sci.electronics.basics:47598 sci.electronics.design:206306

Arv wrote:

> My W1AW receiver uses the crystal with just a 5-47 pf variable
> capacitor...no inductor, and it nets right on frequency. Try shorting

Story of my life. ;-)

> the inductor and see if this gets you closer to the required
> frequency. Not all color burst crystals were created equal.   If you
> have another crystal you might want to try it.

That seems to be the common consensus. I suspect my crystal is just too
good. ;-)

> Your ferrite will not be saturating at the small amount of signal you
> are sending through it as part of an SA-602 oscillator.

Thanks, I know very little about these things.

> Arv - K7HKL
> _._

From 1757842783710838467
X-Google-Thread: fc2a5,7df6c49a19c050da
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!140.99.99.194.MISMATCH!news-in-02.newsfeed.easynews.com!easynews.com!easynews!sn-xt-sjc-03!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Old microwave
Date: Wed, 14 Mar 2007 07:14:42 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vfpple77ncm4b@news.supernews.com>
References: <69f3a$45f74f17$d066b697$3793@FUSE.NET>
<ECJJh.3869$tv6.1379@newssvr19.news.prodigy.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 74
Xref: g2news1.google.com rec.radio.amateur.homebrew:12597

N9WOS wrote:
>> I have an old kitchen microwave unit whose only fault is that the
>> digital readout is broken. As a neophyte homebrew guy (kits only so
>> far...Elecraft K2, etc), Is there anything worth salvaging from this
>> unit?
>>
>> Thanks!
>>
>> John
>> AB8O
>
> Off the top of my head.......
>
> The HV transformer. Output 1 to 2KV at several hundred to a thousand
> KVA
>
> HV capacitor 1 to 2+ uF at several KV
>
> HV diode. several KV PRV.
>
> Magnetron..... I don't know what I could do with them, but I keep them
> anyway. Maybe if I ever get into plasma physics, or building my own
> fusion reactor, I'll be set.
>
> A thermal limit switch that is mounted on the magnetron.
>
> A set of large magnets that is mounted around the magnetron. The outer
> magnetron casing can usually be disassembled to remove them. They can
> be used to make generators and the like.
>
> If you do remove the magnets from the magnetron, don't throw away the
> actual magnetron tube. With out the magnets, it acts like a normal
> vacuum tube diode. with a PRV of several KV, and a peak cathode
> current of up to an amp, a pare of them would work good in a HV power
> supply. Filament voltage is usually a couple volts at a few amps.
>
> Several NO switches on the door for safety interlocks, and timer

> control.
>
> A relay, or high power triac for controlling power to the transformer
> and magnetron.
>
> A light bulb that lights the inside of the microwave.
>
> A fuse or two. Will save you a trip to town if you have another
> project that blows a fuse at an inopportune time.
>
> Sometimes a smaller transformer with about 4 to 12V ac output for
> powering the timer/display.
>
> If you are into getting the last drop out of a salvage mission, then
> you can usually get a moderate number of transistors and diodes off
> the timer/display board.
>
> The only problem I have found with doing the last thing on the list,
> is you tear the microwave apart, then the last thing you do is go
> after the timer board. When you get done pulling all the parts off of
> it, and you test them to find out what they are. (NPN, PNP........)
> you find one that is bad.......... Then it hits you........That
> component ran the this and that....... That bad component is why the
> microwave wasn't working....... Then you have to decide if it is
> worth putting it all back together after you find out what
> died........ I usually don't.

Good list we could add:
hardware (screws, washers etc)
mains power cord
some models have motorized wave "stirring" or magnetic drive platter turners
keypad for PIC projects

All in all, there's allot of good stuff in one. I shouldn't have thrown my
old one out.

From 7370492213024848887
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.glorb.com!peer1.news.newnet.co.uk!
news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!
newspeer1-win.ntli.net!newsfe3-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "colin" <colin.rowe1@ntworld.NOSPAM.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
References: <12vdm9fk86gbr98@news.supernews.com>
<ebFJh.18554$j7.368943@news.indigo.ie> <12veb8176c9ed7@news.supernews.com>

```
<2gqev2lgj47683bgks9jkeqe1smb0k896e@4ax.com>
Subject: Re: VCXO frequency isn't high enough
Lines: 51
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <9RRJh.198$pP5.129@newsfe3-gui.ntli.net>
Date: Wed, 14 Mar 2007 12:25:41 GMT
NNTP-Posting-Host: 82.1.178.213
X-Trace: newsfe3-gui.ntli.net 1173875141 82.1.178.213 (Wed, 14 Mar 2007 12:25:41
GMT)
NNTP-Posting-Date: Wed, 14 Mar 2007 12:25:41 GMT
Organization: NTL
Xref: g2news1.google.com rec.radio.amateur.homebrew:12598
sci.electronics.basics:47603 sci.electronics.design:206330

"John Fields" <jfields@austininstruments.com> wrote in message
news:2gqev2lgj47683bgks9jkeqe1smb0k896e@4ax.com...
> On Tue, 13 Mar 2007 18:00:15 -0500, "Anthony Fremont"
> <spam-not@nowhere.com> wrote:
>
>>Eamon Skelton wrote:
>>> On Tue, 13 Mar 2007 12:02:38 -0500, Anthony Fremont wrote:
>>>
>>>
>>>> The problem is (well I think it's a problem) is that I'm all the way
>>>> down to a 10pF cap for the crystal trimmer and the highest frequency
>>>> I can get out of it is still less than 3580kHz.  Pleae correct me if
>>>> I'm wrong, but I'm thinking that the 20uH inductor is supposed to
>>>> pull the colorburst crystal high in frequency then the adjustable
>>>> cap should be able to tweak it back down.
>>>
>>> Use less inductance or replace it with a wire link.
>>
>>I did this and now I'm up to 3580.050; an increase of about 70Hz or so..
>>I
>>don't understand how this was designed to work.  What is making the
>>crystal
>>oscillate above its design frequency?  I thought the inductor had
>>something
>>to do with it, obviously not.  Is it being operated in series mode instead
>>of parallel?
>>
>>I tried putting small cap in series with the adjustable one and that just
>>greatly narrowed the tuning range and only slightly raised the frequency.
>>It seemed to be getting unstable at that point as my old frequency counter
>>started showing variations of quite a few hertz each update instead of
>>remaining steady.  It could be the amplitude is too low and the counter is
>>missing ticks.
>
> ---
```

> Your color burst crystal is ground to ring at 3.579545 MHz, and if
> you try to run it at another frequency you'll run into drive and
> tempco problems which will make it worthless.

Its only a pull of ~100ppm, this should be easily pullable for most
fundamental xtals.
ofc if the tolerenace all add up against you you might find it hard.

I would also try reduce the 100pf caps on the sa602 too.
100pf is higher than most crystals I use would like,
50pf or 20pf or if youve got some spare trimmers ...
you can adjust the ratio too, say just reduce the one accross pin 6-7

Colin =^.^=

From -2103657840803710876
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!d57g2000hsg.googlegroups.com!not-for-mail
From: skavanagh72nospam@yahoo.ca
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: 14 Mar 2007 05:37:52 -0700
Organization: http://groups.google.com
Lines: 36
Message-ID: <1173875872.602199.152140@d57g2000hsg.googlegroups.com>
References: <12vdm9fk86gbr98@news.supernews.com>
NNTP-Posting-Host: 216.208.52.56
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173875874 18333 127.0.0.1 (14 Mar 2007 12:37:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 14 Mar 2007 12:37:54 +0000 (UTC)
In-Reply-To: <12vdm9fk86gbr98@news.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d57g2000hsg.googlegroups.com; posting-host=216.208.52.56;
   posting-account=0Ys2Eg0AAADOQYhHmHwRZ2EGbJYic2GH
Xref: g2news1.google.com rec.radio.amateur.homebrew:12599
sci.electronics.basics:47604 sci.electronics.design:206339

On Mar 13, 12:02 pm, "Anthony Fremont" <spam-...@nowhere.com> wrote:
> Hello all,

> I was playing around and saw that my junk box had all the parts so I started tossing this together:http://newenglandqrp.org/files/w1aw-receiver.jpg
> The problem is (well I think it's a problem) is that I'm all the way down to a 10pF cap for the crystal trimmer and the highest frequency I can get out of it is still less than 3580kHz. Pleae correct me if I'm wrong, but I'm thinking that the 20uH inductor is supposed to pull the colorburst crystal high in frequency

The inductor will pull the crystal down in frequency, as others have suggested.

In fact it is extremely difficult to pull a crystal's series resonance up in frequency more than a few Hz. This is because the crystal's parallel resonance is just above its series resonance. If you put a capacitor in series with the crystal the series resonant frequency goes up...BUT...if you approach the parallel resonant frequency you can no longer get a low impedance resonance condition since the crystal's parallel resonance makes the crystal look like an open circuit, regardless of what you put in series with it.

If you want to understand this better, try to find a reference with a good discussion of the equivalent circuit of the quartz crystal resonator. the only one I know of at present is Kenneth K. Clarke and Donald T. Hess, Communication Circuits: Analysis and Design, Addison-Wesley Publishing Co., 1971. It may be a bit hard to find outside a good university library.

As Ian Jackson suggested a parallel inductor might work....this modifies the parallel resonance. Ian..is there a schematic available for that ? I'd be interested in what actually worked.

Steve

From 8934801689793979468
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.glorb.com!news.hub.org!sn-xt-sjc-02!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Wed, 14 Mar 2007 08:02:39 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vfsjje4rdv8d@news.supernews.com>
References: <12vdm9fk86gbr98@news.supernews.com> <ebFJh.18554$j7.368943@news.indigo.ie> <12veb8176c9ed7@news.supernews.com>

<2gqev2lgj47683bgks9jkeqe1smb0k896e@4ax.com> <9RRJh.198$pP5.129@newsfe3-gui.ntli.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 19
Xref: g2news1.google.com rec.radio.amateur.homebrew:12600 sci.electronics.basics:47605 sci.electronics.design:206345

colin wrote:

> Its only a pull of ~100ppm, this should be easily pullable for most
> fundamental xtals.

I'd like to get close to 500ppm if possible.

> ofc if the tolerenace all add up against you you might find it hard.
>
> I would also try reduce the 100pf caps on the sa602 too.
> 100pf is higher than most crystals I use would like,
> 50pf or 20pf or if youve got some spare trimmers ...
> you can adjust the ratio too, say just reduce the one accross pin 6-7

I figured that they were voltage dividers to set the amount of feedback, but
I can certainly see how they could have an effect. Since I'm close to where
I need to be, I will try a couple of 33pF caps to see what happens.

From 2555751634351822142
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.germany.com!newsfeed.freenet.de!border2.nntp.ams.giganews.com!nntp.giganews.com!sn-xt-ams-06!sn-xt-ams-04!sn-post-ams-01!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Wed, 14 Mar 2007 08:18:46 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vfthpqueljv7a@news.supernews.com>
References: <12vdm9fk86gbr98@news.supernews.com> <1173875872.602199.152140@d57g2000hsg.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal

X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 56
Xref: g2news1.google.com rec.radio.amateur.homebrew:12601
sci.electronics.basics:47606 sci.electronics.design:206348

skavanagh72nospam@yahoo.ca wrote:
> On Mar 13, 12:02 pm, "Anthony Fremont" <spam-...@nowhere.com> wrote:
>> Hello all,
>
>> I was playing around and saw that my junk box had all the parts so I
>> started tossing this
>> together:http://newenglandqrp.org/files/w1aw-receiver.jpg
>> The problem is (well I think it's a problem) is that I'm all the way
>> down to a 10pF cap for the crystal trimmer and the highest frequency
>> I can get out of it is still less than 3580kHz. Pleae correct me if
>> I'm wrong, but I'm thinking that the 20uH inductor is supposed to
>> pull the colorburst crystal high in frequency
>
> The inductor will pull the crystal down in frequency, as others have
> suggested.

I understand now. I knew that adding capacitance tended to slow xtals down.
I was unfamiliar with how an inductor would act in series. I knew that this
circuit was trying to pull the crystal higher than spec so I, quite wrongly,
assumed that the inductor would have the opposite effect of capacitance.
And it seems that it does when used in parallel and that seems sensible to
my feeble mind. But in series, it has the opposite effect. What still
throws me is that raising series capacitance doesn't have the opposite
effect of adding parallel capacitance.

>
> In fact it is extremely difficult to pull a crystal's series resonance
> up in frequency more than a few Hz. This is because the crystal's
> parallel resonance is just above its series resonance. If you put a
> capacitor in series with the crystal the series resonant frequency
> goes up...BUT...if you approach the parallel resonant frequency you
> can no longer get a low impedance resonance condition since the
> crystal's parallel resonance makes the crystal look like an open
> circuit, regardless of what you put in series with it.

Hmm....food for thought. :-)

> If you want to understand this better, try to find a reference with a
> good discussion of the equivalent circuit of the quartz crystal
> resonator. the only one I know of at present is Kenneth K. Clarke and
> Donald T. Hess, Communication Circuits: Analysis and Design, Addison-
> Wesley Publishing Co., 1971. It may be a bit hard to find outside a
> good university library.
>
> As Ian Jackson suggested a parallel inductor might work....this

> modifies the parallel resonance. Ian..is there a schematic available
> for that ? I'd be interested in what actually worked.

Doodling with reactance formulas, it appears that 20uH (coincidence?) would
offset 100pF of capacitance fairly well by having a an opposing reactance
(well resistance at this point) of about 450 Ohms at 3581kHz, the same as
100pF. I'll try putting the coil I made in parallel and see what happens.
Hopefully it won't short the oscillator and kill my 15 year old NE602, I
only have two spares.

From -1500597592901671495
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news2.google.com!news.maxwell.syr.edu!sn-xt-sjc-05!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: "Anthony Fremont" <spam-not@nowhere.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
Subject: Re: VCXO frequency isn't high enough
Date: Wed, 14 Mar 2007 08:42:30 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12vfuu8q15l1q57@news.supernews.com>
References: <12vdm9fk86gbr98@news.supernews.com>
<1173875872.602199.152140@d57g2000hsg.googlegroups.com>
<12vfthpqueljv7a@news.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 16
Xref: g2news1.google.com rec.radio.amateur.homebrew:12602
sci.electronics.basics:47607 sci.electronics.design:206351

Anthony Fremont wrote:

> Doodling with reactance formulas, it appears that 20uH (coincidence?)
> would offset 100pF of capacitance fairly well by having a an opposing
> reactance (well resistance at this point) of about 450 Ohms at

s/.well resistance at this point.//
It's just inductive reactance, I need more coffee. ;-)

> 3581kHz, the same as 100pF. I'll try putting the coil I made in
> parallel and see what happens. Hopefully it won't short the
> oscillator and kill my 15 year old NE602, I only have two spares.

Should I be afraid to do this? Does it need something to block DC current?

```
From 1786827874152879007
X-Google-Thread: fc2a5,7df6c49a19c050da
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!208.49.83.146!uns-
out.usenetserver.com!news.usenetserver.com!pc02.usenetserver.com!FUSE.NET-
a2kHrUvQQWlmc!not-for-mail
Date: Wed, 14 Mar 2007 12:41:25 -0400
From: john Wiener <jawod@fuse.net>
User-Agent: Thunderbird 1.5.0.7 (Macintosh/20060909)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Old microwave
References: <69f3a$45f74f17$d066b697$3793@FUSE.NET>
<ECJJh.3869$tv6.1379@newssvr19.news.prodigy.net>
<12vfpple77ncm4b@news.supernews.com>
In-Reply-To: <12vfpple77ncm4b@news.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <9c1e0$45f82673$d8c4d79c$25905@FUSE.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 82
X-Trace: 9c1e045f826737d61723925905
Xref: g2news1.google.com rec.radio.amateur.homebrew:12603

Anthony Fremont wrote:
> N9WOS wrote:
>>> I have an old kitchen microwave unit whose only fault is that the
>>> digital readout is broken.  As a neophyte homebrew guy  (kits only so
>>> far...Elecraft K2, etc), Is there anything worth salvaging from this
>>> unit?
>>>
>>> Thanks!
>>>
>>> John
>>> AB8O
>> Off the top of my head.......
>>
>> The HV transformer. Output 1 to 2KV at several hundred to a thousand
>> KVA
>>
>> HV capacitor 1 to 2+ uF at several KV
>>
>> HV diode. several KV PRV.
>>
```

>> Magnetron..... I don't know what I could do with them, but I keep them
>> anyway. Maybe if I ever get into plasma physics, or building my own
>> fusion reactor, I'll be set.
>>
>> A thermal limit switch that is mounted on the magnetron.
>>
>> A set of large magnets that is mounted around the magnetron. The outer
>> magnetron casing can usually be disassembled to remove them. They can
>> be used to make generators and the like.
>>
>> If you do remove the magnets from the magnetron, don't throw away the
>> actual magnetron tube. With out the magnets, it acts like a normal
>> vacuum tube diode. with a PRV of several KV, and a peak cathode
>> current of up to an amp, a pare of them would work good in a HV power
>> supply. Filament voltage is usually a couple volts at a few amps.
>>
>> Several NO switches on the door for safety interlocks, and timer
>> control.
>>
>> A relay, or high power triac for controlling power to the transformer
>> and magnetron.
>>
>> A light bulb that lights the inside of the microwave.
>>
>> A fuse or two. Will save you a trip to town if you have another
>> project that blows a fuse at an inopportune time.
>>
>> Sometimes a smaller transformer with about 4 to 12V ac output for
>> powering the timer/display.
>>
>> If you are into getting the last drop out of a salvage mission, then
>> you can usually get a moderate number of transistors and diodes off
>> the timer/display board.
>>
>> The only problem I have found with doing the last thing on the list,
>> is you tear the microwave apart, then the last thing you do is go
>> after the timer board. When you get done pulling all the parts off of
>> it, and you test them to find out what they are. (NPN, PNP........)
>> you find one that is bad.......... Then it hits you........That
>> component ran the this and that....... That bad component is why the
>> microwave wasn't working....... Then you have to decide if it is
>> worth putting it all back together after you find out what
>> died........ I usually don't.
>
> Good list we could add:
> hardware (screws, washers etc)
> mains power cord
> some models have motorized wave "stirring" or magnetic drive platter turners
> keypad for PIC projects
>
> All in all, there's allot of good stuff in one. I shouldn't have thrown my
> old one out.
>

```
>
Wow.  Message received.  It'll be fun to disassemble a microwave...when
I was a pre-teen, I used to do it to old 1st generation TV's  the best
part used to be imploding the picture tube.

Thanks!

John
AB8O



From 7533014830780125215
X-Google-Thread: fc2a5,318fb3bc23ccaa99
X-Google-Thread: 111d0a,318fb3bc23ccaa99
X-Google-Thread: 112d1e,318fb3bc23ccaa99
X-Google-Attributes: gidfc2a5,gid111d0a,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!ndsoftware.com!
194.168.222.133.MISMATCH!news-out.ntli.net!newsrout1-gui.ntli.net!ntli.net!
news.highwinds-media.com!newspeer1-win.ntli.net!newsfe2-win.ntli.net.POSTED!
53ab2750!not-for-mail
From: "colin" <colin.rowe1@ntworld.NOSPAM.com>
Newsgroups:
rec.radio.amateur.homebrew,sci.electronics.basics,sci.electronics.design
References: <12vdm9fk86gbr98@news.supernews.com>
<ebFJh.18554$j7.368943@news.indigo.ie> <12veb8176c9ed7@news.supernews.com>
<2gqev2lgj47683bgks9jkeqe1smb0k896e@4ax.com> <9RRJh.198$pP5.129@newsfe3-
gui.ntli.net> <12vfsjje4rdv8d@news.supernews.com>
Subject: Re: VCXO frequency isn't high enough
Lines: 57
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <oaWJh.1962$B37.1473@newsfe2-win.ntli.net>
Date: Wed, 14 Mar 2007 17:21:24 GMT
NNTP-Posting-Host: 82.1.178.213
X-Trace: newsfe2-win.ntli.net 1173892884 82.1.178.213 (Wed, 14 Mar 2007 17:21:24
GMT)
NNTP-Posting-Date: Wed, 14 Mar 2007 17:21:24 GMT
Organization: NTL
Xref: g2news1.google.com rec.radio.amateur.homebrew:12604
sci.electronics.basics:47624 sci.electronics.design:206410

"Anthony Fremont" <spam-not@nowhere.com> wrote in message
news:12vfsjje4rdv8d@news.supernews.com...
> colin wrote:
>
>> Its only a pull of ~100ppm, this should be easily pullable for most
>> fundamental xtals.
>
```

> I'd like to get close to 500ppm if possible.

do you need that much ?
what freq you need ?
whats the colourburst crystal freq ?

>
>> ofc if the tolerenace all add up against you you might find it hard.
>>
>> I would also try reduce the 100pf caps on the sa602 too.
>> 100pf is higher than most crystals I use would like,
>> 50pf or 20pf or if youve got some spare trimmers ...
>> you can adjust the ratio too, say just reduce the one accross pin 6-7
>
> I figured that they were voltage dividers to set the amount of feedback,
> but I can certainly see how they could have an effect. Since I'm close to
> where I need to be, I will try a couple of 33pF caps to see what happens.

no they are involved in setting the frequency too,
in order for you circuit to work it needs to resonate,
with the 2 100pf the input where the crystal is looks like a capacitor with
some negative impedance,
the circuit with your crystal, inductor, and trimmer must be inductive,
it then forms a resonant ciruit with the capacitance of the input.
usualy the crystal would just be operated so that it looks inductive.

the negative part of the input impedance must be stronger than the loss in
the tuned circuit.
this is affected by the ratio of the 2 100pf capacitors.

a crystal can apear to be a very high inductance at resonance,
at the point where you want to operate it probably has very high inductance
indeed.
you can determnine the eqv inductance by using the equivalent internal
inductance and capacitance. you need to find the mutual capacitance of the
crystal wich is hard to find man specs wich tel you this but it is often
something like 14ff for example.
(0.014pf) you can then work out the eqv series inductance for it to resonate
with the std load wich may be 20pf.

you can then work out what inductance the crystal will apear to have at the
frequency you want. and hence the series capacitance you need.
you might find the inductance is so high that you need less than 1pf or it
has become capacitive.

Colin =^.^=

From 3424938512995314716

X-Google-Thread: fc2a5,31ed52dea3512ade
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 09 Mar 2007 09:23:21 -0600
From: "jack" <jdwalton@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <YbOdnez19Ic6qG3YnZ2dnUVZ_qSrnZ2d@comcast.com>
<jvXHh.36$xb3.115826@news.sisna.com>
Subject: Re: Help identifying connector
Date: Fri, 9 Mar 2007 10:26:52 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1506
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1506
Message-ID: <gvidne6LArd05mzYnZ2dnUVZ_t-mnZ2d@comcast.com>
Lines: 26
NNTP-Posting-Host: 69.249.69.72
X-Trace: sv3-tlfmIKH5XlqXs30mKtpFj2W+x2OHqZoU0B5JluoSbL2gpf9+m1LVdvI8YN6bW3y/N/
EZ10qKDvJ0nT3!
4+KS7oohWGz9zMyssfldK9WpX65dLkJdBQJ10lUd0CmcbDO8JvXa7nOdCZCG45si02XzKvi7wYiY!
WbUQGChP0k6xB/v5D2zEISDSJqnx
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12504

Here's a better picture:
http://www.tech-diy.com/connector2.jpg

Jack
"RST Engineering" <jim@rstengineering.com> wrote in message
news:jvXHh.36$xb3.115826@news.sisna.com...
> The photo wasn't very well detailed, but from what I can see it looks to
be
> an Amphenol type 27.
>
> Jim
>
>
>
> "jack" <jdwalton@comcast.net> wrote in message
> news:YbOdnez19Ic6qG3YnZ2dnUVZ_qSrnZ2d@comcast.com...
> > Is this an SMC connector? -- a pair of them are on the diff-amp input to
a
> > Digital Equipment power supply tester -- it has 10-32 threads --
> > http://www.tech-diy.com/connector.jpg
> >

```
> >
>
>




From -7986018129909916915
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.glorb.com!news.alt.net!usenet
From: "Chris" <daviesj248@nospam.alvillage.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: ... _ .._. .._   _ _ .._  _   _ _ ._ ._. _ _._  .._  .  .  ._.
Followup-To: rec.radio.amateur.misc
Date: Fri, 9 Mar 2007 15:39:42 +0000 (UTC)
Organization: Alabama Village Broadband Cable
Lines: 6
Message-ID: <3dcd1b6e.988104257@alvillage.net>
References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
<1172267318.119745.218720@t69g2000cwt.googlegroups.com>
<45df8787$0$28161$4c368faf@roadrunner.com>
<1172303818.483077.293990@8g2000cwh.googlegroups.com>
<45e0d852$0$28102$4c368faf@roadrunner.com>
<45ebfd39$0$29219$dbd49001@news.wanadoo.nl>
<1173381894.008472.199190@q40g2000cwq.googlegroups.com>
<1173446768.720254.308580@h3g2000cwc.googlegroups.com>
NNTP-Posting-Host: 10.0.3.125
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Xref: g2news1.google.com rec.radio.amateur.homebrew:12505
rec.radio.amateur.misc:33609 rec.radio.amateur.policy:83831

On 9 Mar 2007 05:26:08 -0800, Andy the Perv Timberlake <Secwet Woger> wrote:

> Subject:  ... _ .._. .._   _ _ .._  _   _ _ ._ ._. _ _._  .._  .  .  ._.
STFU MUT MARQUEER?

Vass is "MUT," mein dumkoff?


From 7913641655151427507
X-Google-Thread: 106d41,e304b13f1d339edf
X-Google-Thread: fc2a5,ef5406dd4f13fbd5
X-Google-Attributes: gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-
```

```
sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Frank Gilliland <w�renut@NOSPAM�cehouse.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor Module...
Date: Fri, 09 Mar 2007 08:32:12 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <3t13v2d7g0n3o5q0jvv5m7ad3rmatr3ddq@4ax.com>
References: <1172610853.838313.57150@z35g2000cwz.googlegroups.com>
<kgbbu2lr8met5tu56bomnscnltes9d8hh2@4ax.com>
<20070228122542.789$Se@newsreader.com>
<1172688931.272244.316320@q2g2000cwa.googlegroups.com>
<m1ldu2l902p2enjp5eigu1rov0iovu2hjh@4ax.com>
<1172785175.546043.212390@31g2000cwt.googlegroups.com>
<1173205021.710286.22050@n33g2000cwc.googlegroups.com>
<1173444133.972521.326640@64g2000cwx.googlegroups.com>
<dmt2v21kpl76nfle0vu3l1tls1bood9vpc@4ax.com>
X-Newsreader: Forte Free Agent 1.93/16.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 41
Xref: g2news1.google.com rec.radio.cb:34604 rec.radio.amateur.homebrew:12506

On Fri, 09 Mar 2007 15:06:35 GMT, james <george@washington.edu> wrote
in <dmt2v21kpl76nfle0vu3l1tls1bood9vpc@4ax.com>:

>On 9 Mar 2007 04:42:14 -0800, "Telstar Electronics"
><briangriffey@sbcglobal.net> wrote:
>
>>+++> Well... while James mulls that over... the PCB development continues.
>>+++> The board is about 50% complete at this time. I expect to be done by
>>+++> this weekend... and have the first custom boards within two weeks. I
>>+++> will post a pic or two on the net as soon as I have a few built up.
>>+++
>>+++The board layout is now 90% complete. This project is certainly ahead
>>+++of schedule at this point. If things keep going this well... the
>>+++product release could be before the target Sept07 date.
>>+++
>>+++Follow the development of the VoiceMax Speech Processor at:
>>+++http://www.telstar-electronics.com/default_files/NewProductDevelopment.htm
>>+++
>***********
>
>Realy bad marketing strategy.
>Very poor product survey.
>
>I hope that you are not contemplating filling any patents on this
>product? With this announcement anything filed after March 9th are no
>longer valid. I also hope that any copyrights and products names have
>properly been filed. Ot herwise you are out.
```

Google "Telstar Electronics" and you will see that he already has that problem. He seems to apply his 'head-in-the-sand' business methods to all aspects of his business. He thinks that living in his parents' basement will protect him from legal responsibilities, but here again he's ignoring the fact that running his scams out of their house makes them partially responsible, both legally and financially. His blatant disregard of civil responsibility is enough to bring up the question of what else he's doing in that basement for a quick buck..... making bomb timers for terrorists?

```
From -5486718860241652145
X-Google-Thread: 106d41,e304b13f1d339edf
X-Google-Thread: fc2a5,ef5406dd4f13fbd5
X-Google-Attributes: gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q40g2000cwq.googlegroups.com!not-for-
mail
From: "Telstar Electronics" <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor Module...
Date: 9 Mar 2007 09:04:54 -0800
Organization: http://groups.google.com
Lines: 12
Message-ID: <1173459894.515181.241670@q40g2000cwq.googlegroups.com>
References: <60c8u2hq13gqpqb65lbd6gloh5hlsamp7b@4ax.com>
   <1172610853.838313.57150@z35g2000cwz.googlegroups.com>
   <kgbbu2lr8met5tu56bomnscnltes9d8hh2@4ax.com>
   <20070228122542.789$Se@newsreader.com>
   <1172688931.272244.316320@q2g2000cwa.googlegroups.com>
   <m1ldu2l902p2enjp5eigu1rov0iovu2hjh@4ax.com>
   <1172785175.546043.212390@31g2000cwt.googlegroups.com>
   <1173205021.710286.22050@n33g2000cwc.googlegroups.com>
   <1173444133.972521.326640@64g2000cwx.googlegroups.com>
   <dmt2v21kpl76nfle0vu3l1tls1bood9vpc@4ax.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1173459912 18356 127.0.0.1 (9 Mar 2007 17:05:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 9 Mar 2007 17:05:12 +0000 (UTC)
In-Reply-To: <dmt2v21kpl76nfle0vu3l1tls1bood9vpc@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q40g2000cwq.googlegroups.com; posting-host=216.203.30.4;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news1.google.com rec.radio.cb:34605 rec.radio.amateur.homebrew:12507
```

> Realy bad marketing strategy.
> Very poor product survey.
> I hope that you are not contemplating filling any patents on this
> product? With this announcement anything filed after March 9th are no
> longer valid. I also hope that any copyrights and products names have
> properly been filed. Ot herwise you are out.
> james

Thanks for your concern...

www.telstar-electronics.com

From 2424405989957232958
X-Google-Thread: fc2a5,21d48ccc4e127527
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc08.POSTED!3eccad07!not-for-mail
From: Dan Rae <danrae@verizonEXTRACTTHIS.net>
Reply-To: danrae@verizonEXTRACTTHIS.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Paraset builders?
References: <FQ_Hh.7955$re4.7643@newssvr12.news.prodigy.net>
In-Reply-To: <FQ_Hh.7955$re4.7643@newssvr12.news.prodigy.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 13
Message-ID: <rNgIh.15293$zh.4185@trnddc08>
Date: Fri, 09 Mar 2007 17:26:47 GMT
NNTP-Posting-Host: 71.106.163.182
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc08 1173461207 71.106.163.182 (Fri, 09 Mar 2007 12:26:47 EST)
NNTP-Posting-Date: Fri, 09 Mar 2007 12:26:47 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:12508

Buzz@anywhere.fuzz wrote:
> How many of you have built or building a Paraset WWII Spy radio?

There's reputed to be a yahoo group for these, but I never managed to
find it...
Several people have done it, google will show a few hits.

I collected most of the parts over the years, but was stumped by the
case, my carpentry is not good enough for a wooden one, and the metal
one is equally problematic for me.

Good luck!

Dan
ac6ao / g3ncr

From 6387832598843916933
X-Google-Thread: fc2a5,d375d392c1ee922a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!c51g2000cwc.googlegroups.com!not-for-mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 813 modulators
Date: 9 Mar 2007 10:16:02 -0800
Organization: http://groups.google.com
Lines: 44
Message-ID: <1173464162.565999.257020@c51g2000cwc.googlegroups.com>
References: <12v2mn9md9b6595@corp.supernews.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173464168 29723 127.0.0.1 (9 Mar 2007 18:16:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 9 Mar 2007 18:16:08 +0000 (UTC)
In-Reply-To: <12v2mn9md9b6595@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: c51g2000cwc.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news1.google.com rec.radio.amateur.homebrew:12509

On Mar 9, 8:02 am, Jack Schmidling <a...@mc.net> wrote:
> My Ranger driven 813 modulator is working very well but now I want to
> move on to a self-contained mod.
>
> I have ordered a 15 W solid state amp but need some help picking a
> transformer for between it's 4 ohm output and the 813's running as triodes.
>
> I am sure this has been done many times so perhaps someone can save me
> the pain of trying to determine the impedance needed for the output of
> the trans.
>
> Thanks,
>
> JACK K9ACT

Wild guess: in pentode mode, a PP pair of 813's in AB1 needs approx
160 v peak-to-peak to develop 250 watts of power.

15 watts at 4 ohms is about 20 volts peak-to-peak.

So you need a voltage step-up of 8 or more, round up to 16 for a little headroom. Don't round up too much or you'll lose some current ability. If you're looking for impedance ratios they are voltage ratios squared, so 1:64 (250 ohms, sounds low) to 1:256 (1K ohms, about right). Note that 600 ohms is a commonish value, you're in luck if it has a center tap!

As a sanity check, typical 811A (high mu triode) class B pairs take about 10 watts at 1000 ohm impedance for driving too.

Generally the voltage ratio is more relevant than any impedances printed on the transformer. If you find a hi-fi or 70.7V PA transformer that's great, but lots of people have pressed filament transformers into use too. A center-tap on the output side (even if it's really the input side!) is really nice, you'll note that "international" filament transformers have two 120V windings that can be put in series for 240V or in your case to make a center tap.

My question for you: what kind of modulation transformer do you use to drive the plate for the 8000? I'm jealous that you apparently had one just sitting around :-).

Tim.

From 5911447929131429813
X-Google-Thread: 106d41,e304b13f1d339edf
X-Google-Thread: fc2a5,ef5406dd4f13fbd5
X-Google-Attributes: gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 09 Mar 2007 14:23:37 -0600
From: tnom@mucks.net
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor Module...
Date: Fri, 09 Mar 2007 15:23:33 -0500
Organization: Group One News Network
Message-ID: <qqf3v2hiqc0j5efr3ete3mejihfno84ath@4ax.com>
References: <kgbbu2lr8met5tu56bomnscnltes9d8hh2@4ax.com>
<20070228122542.789$Se@newsreader.com>
<1172688931.272244.316320@q2g2000cwa.googlegroups.com>
<m1ldu2l902p2enjp5eigu1rov0iovu2hjh@4ax.com>
<1172785175.546043.212390@31g2000cwt.googlegroups.com>
<1173205021.710286.22050@n33g2000cwc.googlegroups.com>
<1173444133.972521.326640@64g2000cwx.googlegroups.com>
<dmt2v21kpl76nfle0vu3l1tls1bood9vpc@4ax.com>
<3t13v2d7g0n3o5q0jvv5m7ad3rmatr3ddq@4ax.com>
X-Newsreader: Forte Agent 4.2/32.1118
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

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Content-Transfer-Encoding: 7bit
Lines: 17
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1OOZ2u9d9P3X74xKY5QgWMsa1crYIbv7Eeitlhkf8ZuQ/k6CrkSDZ+WQ+BCc/pTI2lZH2g4=
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.cb:34606 rec.radio.amateur.homebrew:12510
```

>Google "Telstar Electronics" and you will see that he already has that
>problem. He seems to apply his 'head-in-the-sand' business methods to
>all aspects of his business. He thinks that living in his parents'
>basement will protect him from legal responsibilities,

As others have pointed out he should name him business and products more appropriately.

Telstar should be......Tespam or Telstar rejectronics for obvious reasons.

Skywave should be...... LieWave for its exaggerated specs.

VoiceMax should be......VoiceHack for his implementation of someone else's design or VoiceLax for what will ultimately spew from the use of his product.

```
From -6357075662984739122
X-Google-Thread: fc2a5,3c5be9ea6c76158b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!s48g2000cws.googlegroups.com!not-for-
mail
From: "MarkAren" <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: One crystal with several mixers?
Date: 9 Mar 2007 14:11:45 -0800
Organization: http://groups.google.com
Lines: 22
Message-ID: <1173478304.964399.14010@s48g2000cws.googlegroups.com>
References: <1173295111.444796.268900@j27g2000cwj.googlegroups.com>
NNTP-Posting-Host: 222.155.189.220
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173478323 29758 127.0.0.1 (9 Mar 2007 22:12:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 9 Mar 2007 22:12:03 +0000 (UTC)
In-Reply-To: <1173295111.444796.268900@j27g2000cwj.googlegroups.com>
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s48g2000cws.googlegroups.com; posting-host=222.155.189.220;
   posting-account=0vCTfAwAAACvA6pNXnot7Fa7QcUC1A3e
Xref: g2news1.google.com rec.radio.amateur.homebrew:12511

I vote for the 4 way resistive splitter
http://www.microwaves101.com/encyclopedia/resistive_splitters.cfm fed
with lots of ergs from a gently tickled Xtal osc and sutiable
buffering. Terminate each limb in 50 ohms near each 605 and feed with
50 ohm microstrip from the central distribution point (buffer).

-Mark

On Mar 8, 8:18 am, btadeyl...@hotmail.com wrote:
> I'm designing a box that will use four SA605 receiver/mixer chips that
> all need the same crystal reference. Even with all the good
> application notes for the SA605, I'm not sure how to do this. Do I
> build a Colpitts oscillator from transistors, buffer it, and then use
> this output as an "external LO" for the mixers? Or do I connect up
> the crystal to the SA605 oscillator pins as usual and then tap off of
> this for the other chips? Using a function generator as an external
> LO, I get the best results injecting a 300mVpp sine wave, if that is
> useful.
>
> Thank you!

From -2408508114635082072
X-Google-Thread: fc2a5,d375d392c1ee922a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!h3g2000cwc.googlegroups.com!not-for-mail
From: N2EY@AOL.COM
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 813 modulators
Date: 9 Mar 2007 15:21:37 -0800
Organization: http://groups.google.com
Lines: 56
Message-ID: <1173482497.247596.251220@h3g2000cwc.googlegroups.com>
References: <12v2mn9md9b6595@corp.supernews.com>
NNTP-Posting-Host: 152.163.100.11
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173482504 13430 127.0.0.1 (9 Mar 2007 23:21:44 GMT)
X-Complaints-To: groups-abuse@google.com
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In-Reply-To: <12v2mn9md9b6595@corp.supernews.com>

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User-Agent: G2/1.0
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98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 Turboweb [rtc-tf061 8.4.1], HTTP/1.1 cache-rtc-
aa07.proxy.aol.com[98A3640B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: h3g2000cwc.googlegroups.com; posting-host=152.163.100.11;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news1.google.com rec.radio.amateur.homebrew:12512
```

On Mar 9, 8:02?am, Jack Schmidling <a...@mc.net> wrote:

> My Ranger driven 813 modulator is working very well but now I want to
> move on to a self-contained mod.
>
> I have ordered a 15 W solid state amp but need some help picking a
> transformer for between it's 4 ohm output and the 813's running as triodes.
>
> I am sure this has been done many times so perhaps someone can save me
> the pain of trying to determine the impedance needed for the output of
> the trans.
>

Jack,

I agree with Tim's comments, and will add just a few words.

One concern I have is that the 15 watt amp will see a load of varying impedance from the 813 grids. If you are running them Class AB, their input Z is near infinite until grid current flows. That reflects back to the 15W amp, which may or may not affect it.

I suggest putting a resistor across the secondary of the driver transformer, so the amp always sees a load. The resistor then sets the impedance of the transformer.

Some back-of-the napkin numbers:

As Tim says, 15 W at 4 ohms is about 20 volts peak-to-peak. To give some headroom, let's use 10 volts.

Again using Tim's numbers, figure about 200 volts peak-to-peak at the 813 grids. That's a 1:20 voltage step up, or a 1 to 400 impedance step up.

The output Z is therefore 1600 ohms or so. The resistor should be 1600 to 2000 ohms, 20 W. Could be a bunch of smaller resistors in series-parallel. The 20 W rating is very conservative, too - 10 W may be enough.

Besides the transformers Tim mentions, keep an eye out for Stancor "rectifier transformers". These have been around forever, and have the numbers ranging from RT-201 to RT-208 or so. They are all the same windings, the difference is in the power rating. An RT-201 is more than enough VA for this application.

The RT series are well-documented, common and not too expensive, and
have the desired dual primaries (which you use in series to drive the
813 grids). They also have lots of secondary taps so you can try all
sorts of ratios.

One request for your website: MORE PICTURES!

73 es GL de Jim, N2EY

...that 8000 is just beautiful, btw...

From 1368854338694081645
X-Google-Thread: 106d41,e304b13f1d339edf
X-Google-Thread: fc2a5,ef5406dd4f13fbd5
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X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!news-out.octanews.net!
mauve.octanews.net!news-out.readnews.com!postnews3.readnews.com!
nr3.newsreader.com.POSTED!not-for-mail
Subject: Re: VoiceMax Speech Processor Module...
From: Steveo <moparholic@hotmail.com>
Organization: .
Message-ID: <20070309203543.772$zY@newsreader.com>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew
References: <1172610853.838313.57150@z35g2000cwz.googlegroups.com>
<kgbbu2lr8met5tu56bomnscnltes9d8hh2@4ax.com>
<20070228122542.789$Se@newsreader.com>
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<m1ldu2l902p2enjp5eigu1rov0iovu2hjh@4ax.com>
<1172785175.546043.212390@31g2000cwt.googlegroups.com>
<1173205021.710286.22050@n33g2000cwc.googlegroups.com>
<1173444133.972521.326640@64g2000cwx.googlegroups.com>
<dmt2v21kpl76nfle0vu3l1tls1bood9vpc@4ax.com>
<3t13v2d7g0n3o5q0jvv5m7ad3rmatr3ddq@4ax.com>
X-NRC-Trace: NewsReader.Com UOAR29BT1ydz9otivKEeZF=wxM.yOsMAoAJGoa+qO4RbXD
Date: 09 Mar 2007 20:28:42 GMT
Lines: 5
NNTP-Posting-Host: dd826150.nr3.newsreader.com
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^Vb_Q5TlQ_
X-Complaints-To: abuse@newsreader.com
Xref: g2news1.google.com rec.radio.cb:34611 rec.radio.amateur.homebrew:12513

Frank Gilliland <w�renut@NOSPAM�cehouse.net> wrote:
>> of what else he's doing in that basement for a quick buck..... making
> bomb timers for terrorists?
>

Nah, his mom would kick him out of her basement for that, right?

From 8729223002398530135
X-Google-Thread: fc2a5,d375d392c1ee922a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
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From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 813 modulators
Date: Fri, 09 Mar 2007 22:44:50 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12v4du4jau07pdf@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <12v2mn9md9b6595@corp.supernews.com>
<1173464162.565999.257020@c51g2000cwc.googlegroups.com>
In-Reply-To: <1173464162.565999.257020@c51g2000cwc.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 25
Xref: g2news1.google.com rec.radio.amateur.homebrew:12514

Tim Shoppa wrote:

> If you find a hi-fi or 70.7V PA transformer that's great....

What does 70.7v mean?

> My question for you: what kind of modulation transformer do you use to
> drive the plate for the 8000? I'm jealous that you apparently had one
> just sitting around :-).

No such luck but I did find someone else by trolling who did. It's a
UTC SS22 and about right for the job but I would feel more comfortable
with something a little bigger.

I only need about 200W of audio but I would like to run it at 2000 volts
to get legal limit out of the final but I am a little reluctant to push
the mod trans. I am currently running at 1600V and everything is happy.

JACK K9ACT

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

From 330318619975655389
X-Google-Thread: fc2a5,d375d392c1ee922a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 813 modulators
Date: Fri, 09 Mar 2007 22:52:49 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12v4ed3f7cuqlbf@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <12v2mn9md9b6595@corp.supernews.com>
<1173482497.247596.251220@h3g2000cwc.googlegroups.com>
In-Reply-To: <1173482497.247596.251220@h3g2000cwc.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 37
Xref: g2news1.google.com rec.radio.amateur.homebrew:12515

N2EY@AOL.COM wrote:

> One concern I have is that the 15 watt amp will see a load of varying
> impedance from the 813 grids. If you are running them Class AB, their
> input Z is near infinite until
> grid current flows. That reflects back to the 15W amp, which may or
> may not affect it.

There is some idling grid current flowing.. about 30 ma if that helps any. This is a zero bias set up with screens and grids tied together.

> I suggest putting a resistor across the secondary of the driver
> transformer, so the amp always sees a load. The resistor then sets the
> impedance of the transformer.

Someone else suggested a resistor in series but I forgot why. Are you addressing the same problem?

> One request for your website: MORE PICTURES!

Thanks but I have been doing a Photo of the Week this for 12 years and that's about 624 to date. If you just want to fall asleep watching them, try the slide show.

> ...that 8000 is just beautiful, btw...

Very satisfying to turn a bookend into the heart of a real transmitter.

JACK K9ACT

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

From -3963543311960867849
X-Google-Thread: fc2a5,d375d392c1ee922a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!roadrunner.com!not-for-mail
Message-ID: <45F24626.8010703@nettally.com>
Date: Sat, 10 Mar 2007 00:46:14 -0500
From: **THE-RFI-EMI-GUY** <rhyolite@nettally.com>
Organization: Central Scrutinizer
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To: Jack Schmidling <arf@mc.net>
Subject: Re: 813 modulators
References: <12v2mn9md9b6595@corp.supernews.com>
<1173464162.565999.257020@c51g2000cwc.googlegroups.com>
<12v4du4jau07pdf@corp.supernews.com>
In-Reply-To: <12v4du4jau07pdf@corp.supernews.com>
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Content-Transfer-Encoding: 8bit
Lines: 27
X-Complaints-To: abuse@rr.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12516

Jack Schmidling wrote:

> Tim Shoppa wrote:
>
>> If you find a hi-fi or 70.7V PA transformer that's great....
>
>
> What does 70.7v mean?
>
>

It is a standard method of distributing multiple PA or music speakers
from an audio amplifier. If you start out with a 100 watt amp with a 100
watt/70 V audio output transformer you can run small gauge wire to the

remote speakers. At each remote speaker a 70 V transformer steps down to
the speaker impedance by way of a tap corresponding to the power you
want delivered to the speaker. If you have 10 speakers, use the 10 watt
taps etc.

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From 3463693603584404284
X-Google-Thread: fc2a5,d375d392c1ee922a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!news.tiscali.de!uio.no!newsfeed1.funet.fi!newsfeeds.funet.fi!
feeder1.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 813 modulators
Message-ID: <kfk4v2dhqc0q3tk410v1ejee0opt53cu6a@4ax.com>
References: <12v2mn9md9b6595@corp.supernews.com>
<1173464162.565999.257020@c51g2000cwc.googlegroups.com>
<12v4du4jau07pdf@corp.supernews.com> <45F24626.8010703@nettally.com>
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MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 27
Date: Sat, 10 Mar 2007 08:39:24 +0200
NNTP-Posting-Host: 195.197.6.105
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1173508660 195.197.6.105 (Sat, 10 Mar 2007
08:37:40 EET)
NNTP-Posting-Date: Sat, 10 Mar 2007 08:37:40 EET
Organization: Saunalahti Customer
Xref: g2news1.google.com rec.radio.amateur.homebrew:12517

On Sat, 10 Mar 2007 00:46:14 -0500, **THE-RFI-EMI-GUY**
<rhyolite@nettally.com> wrote:

>Jack Schmidling wrote:
>
>> Tim Shoppa wrote:
>>
>>> If you find a hi-fi or 70.7V PA transformer that's great....

>>
>>
>> What does 70.7v mean?
>>
>>
>It is a standard method of distributing multiple PA or music speakers
>from an audio amplifier. If you start out with a 100 watt amp with a 100
>watt/70 V audio output transformer you can run small gauge wire to the
>remote speakers. At each remote speaker a 70 V transformer steps down to
>the speaker impedance by way of a tap corresponding to the power you
>want delivered to the speaker. If you have 10 speakers, use the 10 watt
>taps etc.

That must be some kind if americanism, since I have only heard about
100 V lines, for distributing audio power at a reasonable level around
a large house,

Paul OH3LWR

From 4664763452720865166
X-Google-Thread: fc2a5,b76b4c3bbd28ad2c,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!64g2000cwx.googlegroups.com!not-for-mail
From: "hxc98@yahoo.com" <hxc98@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: APRS with Microsoft Streets or AutoRoute
Date: 9 Mar 2007 23:47:47 -0800
Organization: http://groups.google.com
Lines: 7
Message-ID: <1173512867.582514.8110@64g2000cwx.googlegroups.com>
NNTP-Posting-Host: 58.19.35.225
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X-Trace: posting.google.com 1173512884 15270 127.0.0.1 (10 Mar 2007 07:48:04 GMT)
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NNTP-Posting-Date: Sat, 10 Mar 2007 07:48:04 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.2; SV1; .NET CLR 1.1.4322; Alexa Toolbar),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 64g2000cwx.googlegroups.com; posting-host=58.19.35.225;
   posting-account=qkd21QwAAAAs0AsHsbNsv0PdNKEViQPM
Xref: g2news1.google.com rec.radio.amateur.homebrew:12518

If you have Microsoft Streets or AutoRoute, you have all you need for
live APRS tracking. You can now take advantage of the superior maps
that comes with it and use it with APRSPoint. We have update the
installation process of APRSPoint so that it now supports Streets or
AutoRoute. You can visit http://www.aprspoint.com for a free download

and trial.

```
From -18817753988799358
```

```
X-Google-Thread: fc2a5,ed038184692ee88e,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!q40g2000cwq.googlegroups.com!not-for-mail
From: paul@burridge8333.fsbusiness.co.uk
Newsgroups: rec.radio.amateur.homebrew
Subject: Hams versus CBers and whatnot
Date: 10 Mar 2007 05:05:44 -0800
Organization: http://groups.google.com
Lines: 8
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NNTP-Posting-Date: Sat, 10 Mar 2007 13:06:07 +0000 (UTC)
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Complaints-To: groups-abuse@google.com
Injection-Info: q40g2000cwq.googlegroups.com; posting-host=85.31.187.187;
   posting-account=BJIwyQ0AAADYc2s0ibgcfLhv1YMODBci
Xref: g2news1.google.com rec.radio.amateur.homebrew:12519
```

Well I take the original poster`s point, but it`s a case of "use it or lose it" and the more people that use the bands, the less likely it is that they`ll be taken away. So even if they are worked by wankers, at least the wankers are serving some purpose. Plus there is nothing to stop code lovers (of which I am one) from continuing to dit-dah away indefinitely. No one`s proposing to make CW illegal. Let`s try to be a little less elitist, gentlemen!

```
From 3584574240609773657
X-Google-Thread: fc2a5,91ed0aae4eaea20d,start
X-Google-Thread: 112d1e,91ed0aae4eaea20d,start
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X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!t69g2000cwt.googlegroups.com!not-for-mail
From: paul@burridge8333.fsbusiness.co.uk
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Detecting Ultrasound
Date: 10 Mar 2007 05:18:34 -0800
Organization: http://groups.google.com
```

Lines: 20
Message-ID: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
NNTP-Posting-Host: 81.169.184.173
Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1173532732 12037 127.0.0.1 (10 Mar 2007 13:18:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 10 Mar 2007 13:18:52 +0000 (UTC)
User-Agent: G2/1.0
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Complaints-To: groups-abuse@google.com
Injection-Info: t69g2000cwt.googlegroups.com; posting-host=81.169.184.173;
   posting-account=BJIwyQ0AAADYc2s0ibgcfLhv1YMODBci
Xref: g2news1.google.com rec.radio.amateur.homebrew:12520 sci.electronics.design:203910

Hi chaps,

I suspect a neighbour of a friend of mine is using an ultrasonic bird-scarer to frighten off his pets. The man concerned won=B4t admit to it, but there are times when his dog and two cats just seem to get suddenly very distressed and hypermanic for no apparent reason. I`d like to at least eliminate this possibility before considering any others. So the question is, what=B4s the simplest way to detect ultrasound? My web research leads me to believe the area of interest is between 20 and 30khz. Most common bird scarers warble between these two limits which are of course above the range of human hearing. I=B4ve acquired an ultrasonic transducer that transmits on 41khz. If I couple this up to a wien-bridge oscillator trimmed to the same frequency, I figure I ought to be able to hear a warble if indeed this guy is using a birdscarer, because the difference between 41khz and 20khz-30khz will be audible to me. Is this feasible to "air mix" the two frequencies in this simple way and hear a result, or is something more complicated required?
Thanks!

From 5129853612533903135
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news2.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: martin griffith <mart_in_medina@ya___.es>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
Date: Sat, 10 Mar 2007 14:31:29 +0100
Organization: nope, Disorganisation Rules
Lines: 26

```
Message-ID: <toc5v2po10me7u8q4ohkf40vrnll15aamt@4ax.com>
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Trace: individual.net ZLNKLtf58nGRAswhxsJmVQqo6CGgiICQ63YpIGS4W/eMujPFAN
X-Newsreader: Forte Free Agent 2.0/32.652
Xref: g2news1.google.com rec.radio.amateur.homebrew:12521
sci.electronics.design:203911

On 10 Mar 2007 05:18:34 -0800, in sci.electronics.design
paul@burridge8333.fsbusiness.co.uk wrote:

>Hi chaps,
>
>I suspect a neighbour of a friend of mine is using an ultrasonic bird-
>scarer to frighten off his pets. The man concerned won�t admit to it,
>but there are times when his dog and two cats just seem to get
>suddenly very distressed and hypermanic for no apparent reason. I`d
>like to at least eliminate this possibility before considering any
>others. So the question is, what�s the simplest way to detect
>ultrasound? My web research leads me to believe the area of interest
>is between 20 and 30khz. Most common bird scarers warble between these
>two limits which are of course above the range of human hearing. I�ve
>acquired an ultrasonic transducer that transmits on 41khz. If I couple
>this up to a wien-bridge oscillator trimmed to the same frequency, I
>figure I ought to be able to hear a warble if indeed this guy is using
>a birdscarer, because the difference between 41khz and 20khz-30khz
>will be audible to me. Is this feasible to "air mix" the two
>frequencies in this simple way and hear a result, or is something more
>complicated required?
>Thanks!
http://pw1.netcom.com/~t-rex/BatDetector.html may work


martin



From -7179619360691977823
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII
Subject: Re: Detecting Ultrasound
From: chuck <nospam@nospam.org>
Date: Sat, 10 Mar 2007 08:47:51 -0500
Message-ID: <1173534585_7589@sp6iad.superfeed.net>
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
Lines: 51
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
out.newsfeeds.com!local!sp6iad.superfeed.net!not-for-mail
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
```

X-Proxy-User: $$x38rj
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
In-Reply-To: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
X-Report: Please report illegal or inappropriate use to <abuse@newsfeeds.com>.
Forward a copy of ALL headers INCLUDING the body. (DO NOT SEND ATTACHMENTS)
X-Comments2: IMPORTANT: Newsfeeds.com does not condone,support,nor tolerate spam
or any illegal or copyrighted postings.
X-Comments: This message was posted through Newsfeeds.com
Organization: Superfeed.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:12522
sci.electronics.design:203912

paul@burridge8333.fsbusiness.co.uk wrote:

> Hi chaps,
>
> I suspect a neighbour of a friend of mine is using an ultrasonic bird-scarer to frighten off his pets. The man concerned won�t admit to it, but there are times when his dog and two cats just seem to get suddenly very distressed and hypermanic for no apparent reason. I`d like to at least eliminate this possibility before considering any others. So the question is, what�s the simplest way to detect ultrasound? My web research leads me to believe the area of interest is between 20 and 30khz. Most common bird scarers warble between these two limits which are of course above the range of human hearing. I�ve acquired an ultrasonic transducer that transmits on 41khz. If I couple this up to a wien-bridge oscillator trimmed to the same frequency, I figure I ought to be able to hear a warble if indeed this guy is using a birdscarer, because the difference between 41khz and 20khz-30khz will be audible to me. Is this feasible to "air mix" the two frequencies in this simple way and hear a result, or is something more complicated required?
> Thanks!
>

Interesting.

The mixing process requires a non-linear device, which, for your purposes, I suspect the air is not. I've often considered, but never attempted, a similar mixing process using human ears (connected and intact, of course), since ears are quite non-linear. Ears won't work as mixers in your case since, at least for most adults, they are insensitive to ultrasonic frequencies (as well as to intelligent political analysis, it seems).

The suggested bat detector is far more promising.

Chuck

----== Posted via Newsfeeds.Com - Unlimited-Unrestricted-Secure Usenet News==----
http://www.newsfeeds.com The #1 Newsgroup Service in the World! 120,000+

From 6857024397254562038
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!newsfeed2.dallas1.level3.net!news.level3.com!newsfeed-00.mathworks.com!news.mv.net!not-for-mail
From: PeterD <peter2@hipson.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
Date: Sat, 10 Mar 2007 09:19:25 -0500
Organization: MV Communications, Inc.
Lines: 30
Message-ID: <lcf5v210tvuhb1th6k0ttdf0bodo44o9sj@4ax.com>
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
NNTP-Posting-Host: hipson.net
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Trace: pyrite.mv.net 1173536365 68687 207.22.18.93 (10 Mar 2007 14:19:25 GMT)
X-Complaints-To: abuse@mv.net
NNTP-Posting-Date: Sat, 10 Mar 2007 14:19:25 +0000 (UTC)
X-Newsreader: Forte Agent 3.3/32.846
Xref: g2news1.google.com rec.radio.amateur.homebrew:12523 sci.electronics.design:203919

On 10 Mar 2007 05:18:34 -0800, paul@burridge8333.fsbusiness.co.uk wrote:

>Hi chaps,
>
>I suspect a neighbour of a friend of mine is using an ultrasonic bird-
>scarer to frighten off his pets. The man concerned won�t admit to it,
>but there are times when his dog and two cats just seem to get
>suddenly very distressed and hypermanic for no apparent reason. I`d
>like to at least eliminate this possibility before considering any
>others. So the question is, what�s the simplest way to detect
>ultrasound? My web research leads me to believe the area of interest
>is between 20 and 30khz. Most common bird scarers warble between these
>two limits which are of course above the range of human hearing. I�ve
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>this up to a wien-bridge oscillator trimmed to the same frequency, I
>figure I ought to be able to hear a warble if indeed this guy is using
>a birdscarer, because the difference between 41khz and 20khz-30khz
>will be audible to me. Is this feasible to "air mix" the two
>frequencies in this simple way and hear a result, or is something more
>complicated required?
>Thanks!

Why worry about it... His yard, his pets, his life...

OK,

Take a microphone with a frequency response > 30Khz, and an amplifer.
Monitor the amp's output with a scope. <bg>

From -397496710031408345
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 10 Mar 2007 08:32:00 -0600
From: Stace MacGuyver <MacGyver@comcast.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
Date: Sat, 10 Mar 2007 09:32:00 -0500
Message-ID: <vtf5v25f1ba9s9u0tvdk02jehqtld9d1i4@4ax.com>
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 27
NNTP-Posting-Host: 71.232.171.160
X-Trace: sv3-h8EeGSv0kTj5C+fNNyFpd80WIhWCATI+62KpIyxWTE9zikbTg9rOQ/
uKlSzKCSLsjDghTOFkG4xiFO5!
HjJccgp4YzhBjI3J9kblLnYhDBWXVizWIRpz3FOal8Ks+9UYbVvzKT2qDkYxWyqViC7v3rhz41oU!
Ec4+ULwjydJJEiK/Y/PmfuJO+po8
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12524
sci.electronics.design:203921

On 10 Mar 2007 05:18:34 -0800, paul@burridge8333.fsbusiness.co.uk wrote:

>Hi chaps,
>
>I suspect a neighbour of a friend of mine is using an ultrasonic bird-
>scarer to frighten off his pets. The man concerned won�t admit to it,
>but there are times when his dog and two cats just seem to get
>suddenly very distressed and hypermanic for no apparent reason. I`d
>like to at least eliminate this possibility before considering any
>others. So the question is, what�s the simplest way to detect

>ultrasound? My web research leads me to believe the area of interest
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>two limits which are of course above the range of human hearing. I�ve
>acquired an ultrasonic transducer that transmits on 41khz. If I couple
>this up to a wien-bridge oscillator trimmed to the same frequency, I
>figure I ought to be able to hear a warble if indeed this guy is using
>a birdscarer, because the difference between 41khz and 20khz-30khz
>will be audible to me. Is this feasible to "air mix" the two
>frequencies in this simple way and hear a result, or is something more
>complicated required?
>Thanks!

Suspend a thin shaving razor blade between two pieces of dental floss and put your ear close to the blade. Watch the razor vibrate.

From 1648618591018661528
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.germany.com!newsfeed.datemas.de!news.datemas.de!not-for-mail
From: Jan Panteltje <pNaonStpealmtje@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
Date: Sat, 10 Mar 2007 15:21:25 GMT
Organization: Datemas.de http://www.datemas.de
Lines: 7
Message-ID: <esuidr$pq8$1@news.datemas.de>
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Trace: news.datemas.de
oKceFUfsmXkwy5IRRhQBnonX4yYUnCEaakyk7zv9XiLncLA2dh68nWzSSX2QfgTkU77oDuwkzL2kk47WcbZM+o5fXDUx8Yoz9ahBGhmXMm3NkHhAARdzi9Ogi2tsm34hh2rgzblulwXz4JPTIkPI+FSCjCMQPCjHPzM7G2+Otmg=
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Sat, 10 Mar 2007 15:21:31 +0000 (UTC)
X-Newsreader-location: NewsFleX-1.5.7.2 (c) 'LIGHTSPEED' off line news reader for the Linux platform
 NewsFleX homepage: http://panteltje.com/panteltje/newsflex/ and ftp download ftp://sunsite.unc.edu/pub/linux/system/news/readers/
User-Agent: NewsFleX-1.5.7.2 (Linux-2.6.17.9)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12525 sci.electronics.design:203939

On a sunny day (10 Mar 2007 05:18:34 -0800) it happened paul@burridge8333.fsbusiness.co.uk wrote in

<1173532714.102483.158990@t69g2000cwt.googlegroups.com>:

>Hi chaps,

Google 'bat detector'.

```
From -5900213212850073698
X-Google-Thread: fc2a5,fe95917b46972f51,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!j27g2000cwj.googlegroups.com!not-for-
mail
From: tim9845@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: SA602A oscillator
Date: 10 Mar 2007 07:48:19 -0800
Organization: http://groups.google.com
Lines: 9
Message-ID: <1173541698.892599.26220@j27g2000cwj.googlegroups.com>
NNTP-Posting-Host: 60.50.155.161
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173541706 18876 127.0.0.1 (10 Mar 2007 15:48:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 10 Mar 2007 15:48:26 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j27g2000cwj.googlegroups.com; posting-host=60.50.155.161;
   posting-account=E3gX6A0AAADsGe_Fn_KSLxom3PU7skZE
Xref: g2news1.google.com rec.radio.amateur.homebrew:12526
```

Hi every one!

I'm currently working on a project using SA602A with a 32MHz crystal
oscillator. The crystal is specifed with 30 pF load capacitance. I'm
not able to make the crytal works. I use 120p and 40p in series, for
the crystal.And I follow the circuit given in SA602A data sheet for
cellular radio application. Can anybody help me with this one,
please..Thanks

```
From -2170025758845545104
X-Google-Thread: fc2a5,fe95917b46972f51
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!8g2000cwh.googlegroups.com!not-for-
mail
From: "Telstar Electronics" <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
```

Subject: Re: SA602A oscillator
Date: 10 Mar 2007 07:53:46 -0800
Organization: http://groups.google.com
Lines: 15
Message-ID: <1173542026.749971.154730@8g2000cwh.googlegroups.com>
References: <1173541698.892599.26220@j27g2000cwj.googlegroups.com>
NNTP-Posting-Host: 76.197.212.112
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1173542042 19670 127.0.0.1 (10 Mar 2007 15:54:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 10 Mar 2007 15:54:02 +0000 (UTC)
In-Reply-To: <1173541698.892599.26220@j27g2000cwj.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 8g2000cwh.googlegroups.com; posting-host=76.197.212.112;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news1.google.com rec.radio.amateur.homebrew:12527

On Mar 10, 9:48 am, tim9...@yahoo.com wrote:
> Hi every one!
>
> I'm currently working on a project using SA602A with a 32MHz crystal
> oscillator. The crystal is specifed with 30 pF load capacitance. I'm
> not able to make the crytal works. I use 120p and 40p in series, for
> the crystal.And I follow the circuit given in SA602A data sheet for
> cellular radio application. Can anybody help me with this one,
> please..Thanks

Have you read page 4-3?
http://www.standardics.nxp.com/support/documents/rf/pdf/an1982.pdf

www.telstar-electronics.com

From 2270040209250672457
X-Google-Thread: fc2a5,fe95917b46972f51
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!t69g2000cwt.googlegroups.com!not-for-mail
From: tim9845@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SA602A oscillator
Date: 10 Mar 2007 08:16:13 -0800
Organization: http://groups.google.com
Lines: 20
Message-ID: <1173543373.330184.235500@t69g2000cwt.googlegroups.com>
References: <1173541698.892599.26220@j27g2000cwj.googlegroups.com>
   <1173542026.749971.154730@8g2000cwh.googlegroups.com>

```
NNTP-Posting-Host: 60.50.155.161
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173543380 23030 127.0.0.1 (10 Mar 2007 16:16:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 10 Mar 2007 16:16:20 +0000 (UTC)
In-Reply-To: <1173542026.749971.154730@8g2000cwh.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: t69g2000cwt.googlegroups.com; posting-host=60.50.155.161;
   posting-account=E3gX6A0AAADsGe_Fn_KSLxom3PU7skZE
Xref: g2news1.google.com rec.radio.amateur.homebrew:12528

On Mar 10, 11:53 pm, "Telstar Electronics"
<briangrif...@sbcglobal.net> wrote:
> On Mar 10, 9:48 am, tim9...@yahoo.com wrote:
>
> > Hi every one!
>
> > I'm currently working on a project using SA602A with a 32MHz crystal
> > oscillator. The crystal is specifed with 30 pF load capacitance. I'm
> > not able to make the crytal works. I use 120p and 40p in series, for
> > the crystal.And I follow the circuit given in SA602A data sheet for
> > cellular radio application. Can anybody help me with this one,
> > please..Thanks
>
> Have you read page 4-3?http://www.standardics.nxp.com/support/documents/rf/pdf/
an1982.pdf
>
> www.telstar-electronics.com

Yes I did, but, what about it? i think it does not give much
information for components to be used for the oscillator



From 6102678219765025519
X-Google-Thread: fc2a5,fe95917b46972f51
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc04.POSTED!0da99462!not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1173541698.892599.26220@j27g2000cwj.googlegroups.com>
<1173542026.749971.154730@8g2000cwh.googlegroups.com>
Subject: Re: SA602A oscillator
Lines: 29
X-Priority: 3
```

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <c_AIh.6709$mh7.6695@trnddc04>
Date: Sat, 10 Mar 2007 16:25:44 GMT
NNTP-Posting-Host: 68.236.45.224
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc04 1173543944 68.236.45.224 (Sat, 10 Mar 2007 11:25:44 EST)
NNTP-Posting-Date: Sat, 10 Mar 2007 11:25:44 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:12529

The SA602 oscillator ir primarily intended for fundamental mode crystals.
Your 32 mhz crystal is probably a 3rd overtone unit. It will probably
require a tuned circuit to ensure that it comes up on the third overtone and
not on the fundamental frequency. I recall that the Philips app note shows
how to do that.

Joe
W3JDR

"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
news:1173542026.749971.154730@8g2000cwh.googlegroups.com...
> On Mar 10, 9:48 am, tim9...@yahoo.com wrote:
>> Hi every one!
>>
>> I'm currently working on a project using SA602A with a 32MHz crystal
>> oscillator. The crystal is specifed with 30 pF load capacitance. I'm
>> not able to make the crytal works. I use 120p and 40p in series, for
>> the crystal.And I follow the circuit given in SA602A data sheet for
>> cellular radio application. Can anybody help me with this one,
>> please..Thanks
>
> Have you read page 4-3?
> http://www.standardics.nxp.com/support/documents/rf/pdf/an1982.pdf
>
> www.telstar-electronics.com
>

From -4452908254273616872
X-Google-Thread: fc2a5,ed038184692ee88e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!t69g2000cwt.googlegroups.com!not-for-mail
From: "BonesMcGee att gmail.com" <BonesMcGee@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hams versus CBers and whatnot
Date: 10 Mar 2007 09:20:53 -0800

```
Organization: http://groups.google.com
Lines: 11
Message-ID: <1173547253.308569.68940@t69g2000cwt.googlegroups.com>
References: <1173531943.895443.202300@q40g2000cwq.googlegroups.com>
NNTP-Posting-Host: 68.202.117.54
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1173547259 32394 127.0.0.1 (10 Mar 2007 17:20:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 10 Mar 2007 17:20:59 +0000 (UTC)
In-Reply-To: <1173531943.895443.202300@q40g2000cwq.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.2)
Gecko/20070219 Firefox/2.0.0.2,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: t69g2000cwt.googlegroups.com; posting-host=68.202.117.54;
   posting-account=CcEXgQ0AAADNhBKBnPOZL8_eCGrVQpy_
Xref: g2news1.google.com rec.radio.amateur.homebrew:12530
```

On Mar 10, 8:05 am, p...@burridge8333.fsbusiness.co.uk wrote:

> Well I take the original poster`s point, but it`s a case of "use it or
> lose it" and the more people that use the bands, the less likely it is
> that they`ll be taken away. So even if they are worked by wankers, at
> least the wankers are serving some purpose. Plus there is nothing to
> stop code lovers (of which I am one) from continuing to dit-dah away
> indefinitely. No one`s proposing to make CW illegal. Let`s try to be a
> little less elitist, gentlemen!

Silly!!!

```
From 222276912487719891
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!aotearoa.belnet.be!news.belnet.be!newsgate.cistron.nl!xs4all!
news2.euro.net!66.150.105.54.MISMATCH!nntpserver.com!zeus.nntpserver.com!
10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: Mark@kb9rqz.org
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: just another stalking thread
Date: Sat, 10 Mar 2007 13:18:02 -0500
Message-ID: <git5v2pijoi40o08ta56f04vm4qdam1bck@4ax.com>
References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
<1172267318.119745.218720@t69g2000cwt.googlegroups.com>
<45df8787$0$28161$4c368faf@roadrunner.com>
<1172303818.483077.293990@8g2000cwh.googlegroups.com>
<45e0d852$0$28102$4c368faf@roadrunner.com>
```

```
<45ebfd39$0$29219$dbd49001@news.wanadoo.nl>
<1173381894.008472.199190@q40g2000cwq.googlegroups.com>
<1173446768.720254.308580@h3g2000cwc.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 6
NNTP-Posting-Date: 10 Mar 2007 17:24:39 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12531
rec.radio.amateur.misc:33622 rec.radio.amateur.policy:83956

On 9 Mar 2007 05:26:08 -0800, "Andy the Perv Timberlake"
<andy_theperv_timberlake@yahoo.com> wrote:

>
just another stalking thread
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -8342439574653142597
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 10 Mar 2007 12:40:15 -0600
Message-Id: <icabc4-m1h.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: Re: Detecting Ultrasound
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Date: Sat, 10 Mar 2007 12:35:30 -0600
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
<vtf5v25f1ba9s9u0tvdk02jehqtld9d1i4@4ax.com>
Organization: Vast Right-Wing Conspiracy
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 8
NNTP-Posting-Host: 24.15.127.46
X-Trace: sv3-Ys9a9xV9eCDbuwVtpW0+bKSL7cGFT1Ktasae3jnUbTWYEeCH+Sw/
rOivzA6lxypPMstb2nsGcfjjic7!kw+1r/UDOm7vpcYGPDkZuiCsCLRCm0xKPaiFwypIHx/
bG0i6tFqiNohGkmr6kVFf5W3fa+5KDSEW!/SeqMuVZvtKt
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
```

```
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12532
sci.electronics.design:204064

Stace MacGuyver wrote:
> Suspend a thin shaving razor blade between two pieces of dental floss and put
> your ear close to the blade. Watch the razor vibrate.

That's pretty cool, MacGuyver. Does the razor blade do anything?

--
        Martians drive SUVs! <http://oregonmag.com/MarsWarm307.html>


From -1530414892352326221
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 10 Mar 2007 12:47:39 -0600
Date: Sat, 10 Mar 2007 18:47:39 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
<vtf5v25f1ba9s9u0tvdk02jehqtld9d1i4@4ax.com> <icabc4-m1h.ln1@remote.clifto.com>
In-Reply-To: <icabc4-m1h.ln1@remote.clifto.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Wa2dnZxpQpvWYG_YnZ2dnUVZ_tninZ2d@bright.net>
Lines: 13
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-c3Sy9/sh8/
IVqQwBkV4EagXPOA8y819jY7zlKhXiVnjuAb+WkiCqKbJu4Nl4JPknvZVfByHnjP6UuBM!
n4Tfy5N99iHvNi5xp8GbU5yjBp2pq9PO3opf/1mofM+Lj7mbGnuzObmkkjsjPeOOWs49RV2wbbJe!
uLdSFFKMUw==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12533
```

```
sci.electronics.design:204074

It cuts off your ear if you get too close ;)



clifto wrote:
> Stace MacGuyver wrote:
>
>>Suspend a thin shaving razor blade between two pieces of dental floss and put
>>your ear close to the blade. Watch the razor vibrate.
>
>
> That's pretty cool, MacGuyver. Does the razor blade do anything?
>



From -4884887646341766950
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!64g2000cwx.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
Date: 10 Mar 2007 11:44:27 -0800
Organization: http://groups.google.com
Lines: 40
Message-ID: <1173555867.438324.252030@64g2000cwx.googlegroups.com>
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1173555873 7481 127.0.0.1 (10 Mar 2007 19:44:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 10 Mar 2007 19:44:33 +0000 (UTC)
In-Reply-To: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-te10.proxy.aol.com[CFC87232] (Prism/1.1.9), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: 64g2000cwx.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news1.google.com rec.radio.amateur.homebrew:12534
sci.electronics.design:204129

On Mar 10, 5:18=EF=BF=BDam, p...@burridge8333.fsbusiness.co.uk wrote:
```

> Hi chaps,
>
> I suspect a neighbour of a friend of mine is using an ultrasonic bird-
> scarer to frighten off his pets. The man concerned won=B4t admit to it,
> but there are times when his dog and two cats just seem to get
> suddenly very distressed and hypermanic for no apparent reason. I`d
> like to at least eliminate this possibility before considering any
> others. So the question is, what=B4s the simplest way to detect
> ultrasound? My web research leads me to believe the area of interest
> is between 20 and 30khz. Most common bird scarers warble between these
> two limits which are of course above the range of human hearing. I=B4ve
> acquired an ultrasonic transducer that transmits on 41khz. If I couple
> this up to a wien-bridge oscillator trimmed to the same frequency, I
> figure I ought to be able to hear a warble if indeed this guy is using
> a birdscarer, because the difference between 41khz and 20khz-30khz
> will be audible to me. Is this feasible to "air mix" the two
> frequencies in this simple way and hear a result, or is something more
> complicated required?
> Thanks!

The obvious "detection" would be oscilloscope observation of the amplified microphone signal. That's been mentioned.

Some commercial ultrasound detectors simply heterodyne the ultrasonic range down to audible frequencies...good if your hearing goes on up to the high end of human response. Expensive as portable devices but easily genned up on the average home workbench.

There are a couple of claims of outdoor advertising via sound through using high-power ultrasound generators in pairs, one modulated in amplitude the other unmodulated. The air acts as the non-linear "mixer" and the claim is that such beams of ultrasound can be focussed on particular locations. One such company is located in San Diego, California, if memory serves.

73, Len AF6AY

From 4909562146865372561
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!aotearoa.belnet.be!news.belnet.be!news.germany.com!
news.motzarella.org!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
Date: Sat, 10 Mar 2007 12:07:19 -0800

```
Organization: A noiseless patient Spider
Lines: 19
Message-ID: <esv34q$24t$1@registered.motzarella.org>
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
<vtf5v25f1ba9s9u0tvdk02jehqtld9d1i4@4ax.com> <icabc4-m1h.ln1@remote.clifto.com>
<Wa2dnZxpQpvWYG_YnZ2dnUVZ_tninZ2d@bright.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: reader.motzarella.org
U2FsdGVkX18nO7jF49I6RUadUyDzloXVtYqLc96yHftRzF4NqWKiTdnknvwtAC9YMwo5LXoD8tI7FVIaZk
GeQnji9N/z61i2aSJYpM3fanmEyws3EtMn/7Fn5Dg0SPH2U+SMm1CreUrgnfAbne6Fy6/
ghyvMkcIhHoMPcdouhcQlbHhdGMQU9oPHMZQ0095AhWhCOmWvtbtAQxXX8kqzZQHyQ8a5562M8iThAAkLN
pkdS2yB7WVep9Bas61tqPXE3NZ4Gah5QEROX7DWuzblxQ==
X-Complaints-To: Please send complaints to abuse@motzarella.org with full headers
NNTP-Posting-Date: Sat, 10 Mar 2007 20:06:51 +0000 (UTC)
In-Reply-To: <Wa2dnZxpQpvWYG_YnZ2dnUVZ_tninZ2d@bright.net>
X-Auth-Sender: U2FsdGVkX1/ToU++NmKeHvErWW7n1gOgYpktWhQf65rS9EauOLV+4w==
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12535
sci.electronics.design:204154

Scott wrote:
> It cuts off your ear if you get too close ;)
>
>
>
> clifto wrote:
>> Stace MacGuyver wrote:
>>
>>> Suspend a thin shaving razor blade between two pieces of dental floss
>>> and put
>>> your ear close to the blade. Watch the razor vibrate.
>>
>>
>> That's pretty cool, MacGuyver. Does the razor blade do anything?
>>

Be better if you could use it as an electric razor ...

JS



From -8555830295753479238
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
140.99.99.194.MISMATCH!news-in-02.newsfeed.easynews.com!easynews.com!easynews!sn-
xt-sjc-02!sn-xt-sjc-11!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
```

From: Chris Jones <lugnut808@nospam.yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
Followup-To: rec.radio.amateur.homebrew
Date: Sat, 10 Mar 2007 20:20:37 +0000
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12v64nsp1od3q6f@corp.supernews.com>
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
User-Agent: KNode/0.7.7
MIME-Version: 1.0
Content-Type: text/plain; charset=utf-8
Content-Transfer-Encoding: 8Bit
X-Complaints-To: abuse@supernews.com
Lines: 38
Xref: g2news1.google.com rec.radio.amateur.homebrew:12536
sci.electronics.design:204167

paul@burridge8333.fsbusiness.co.uk wrote:

> Hi chaps,
>
> I suspect a neighbour of a friend of mine is using an ultrasonic bird-
> scarer to frighten off his pets. The man concerned won´t admit to it,
> but there are times when his dog and two cats just seem to get
> suddenly very distressed and hypermanic for no apparent reason. I`d
> like to at least eliminate this possibility before considering any
> others. So the question is, what´s the simplest way to detect
> ultrasound? My web research leads me to believe the area of interest
> is between 20 and 30khz. Most common bird scarers warble between these
> two limits which are of course above the range of human hearing. I´ve
> acquired an ultrasonic transducer that transmits on 41khz. If I couple
> this up to a wien-bridge oscillator trimmed to the same frequency, I
> figure I ought to be able to hear a warble if indeed this guy is using
> a birdscarer, because the difference between 41khz and 20khz-30khz
> will be audible to me. Is this feasible to "air mix" the two
> frequencies in this simple way and hear a result, or is something more
> complicated required?
> Thanks!

To get the air to be non-linear enough to mix the two frequencies, you would need very high sound pressure levels that could potentially be hazardous (or at least much more of a nuisance that whatever your neighbour is doing). I would suggest getting a wideband microphone (a very small electret might do, and would be less high-Q than a typical ultrasonic transducer), and then attach a preamplifier and an electronic mixer with an adjustable local oscillator (e.g. make a bridge from switches using a 4066 or FST3125 that alternately inverts or doesn't invert the signal). The output of the mixer can be fed to an audio amplifier and headphones. You can then test this receiver if you buy or borrow one of those cheap "pest annoyer" things. Once you know that your receiver works, you could make a parabolic reflector (e.g. spin cast a dish on an old record player from plaster of paris in a bin lid), so that you can search for sources of ultrasound.

Chris

```
From 3819419975945441354
X-Google-Thread: fc2a5,bdfe58bad8169a79,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.germany.com!newsfeed.freenet.de!
news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!
newspeer1-win.ntli.net!newsfe3-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Gwendoline Biggadike" <pjpennington@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Two metres mobile..Is it ok with airbags?
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <4TEIh.57257$z54.42257@newsfe3-gui.ntli.net>
Date: Sat, 10 Mar 2007 20:51:12 GMT
NNTP-Posting-Host: 80.4.58.86
X-Complaints-To: http://www.ntlworld.com/netreport
X-Trace: newsfe3-gui.ntli.net 1173559872 80.4.58.86 (Sat, 10 Mar 2007 20:51:12
GMT)
NNTP-Posting-Date: Sat, 10 Mar 2007 20:51:12 GMT
Organization: ntl Cablemodem News Service
Xref: g2news1.google.com rec.radio.amateur.homebrew:12537
```

I have now a Wagon R car. It has two front air bags.
Are they likely to be set off by ten watts at 145MHz.
Is it safe to have mobile amateur radio and air bags?

73 de Pete g4egq
pj.pennington@ntlworld.com

--

My normal email address is pj.pennington@ntlworld.com
If it appears that I have not received your email please send it to my
alternative address pjpennington@ntlworld.com

```
From -8495958804795118744
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!h3g2000cwc.googlegroups.com!not-for-
mail
From: "Andy the Perv Timberlake" <andy_theperv_timberlake@yahoo.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Just another stalking by Marqueer thread
Date: 10 Mar 2007 13:30:18 -0800
Organization: http://groups.google.com
Lines: 9
Message-ID: <1173562218.256418.104350@h3g2000cwc.googlegroups.com>
References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
   <1172267318.119745.218720@t69g2000cwt.googlegroups.com>
   <45df8787$0$28161$4c368faf@roadrunner.com>
   <1172303818.483077.293990@8g2000cwh.googlegroups.com>
   <45e0d852$0$28102$4c368faf@roadrunner.com>
   <45ebfd39$0$29219$dbd49001@news.wanadoo.nl>
   <1173381894.008472.199190@q40g2000cwq.googlegroups.com>
   <1173446768.720254.308580@h3g2000cwc.googlegroups.com>
   <git5v2pijoi40o08ta56f04vm4qdam1bck@4ax.com>
NNTP-Posting-Host: 4.185.222.95
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1173562226 24280 127.0.0.1 (10 Mar 2007 21:30:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 10 Mar 2007 21:30:26 +0000 (UTC)
In-Reply-To: <git5v2pijoi40o08ta56f04vm4qdam1bck@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h3g2000cwc.googlegroups.com; posting-host=4.185.222.95;
   posting-account=sVik3A0AAADzyKivjrehSo4K7uVsLz2Y
Xref: g2news1.google.com rec.radio.amateur.homebrew:12538
rec.radio.amateur.misc:33653 rec.radio.amateur.policy:84012

On Mar 10, 1:18 pm, M...@kb9rqz.org wrote:
> On 9 Mar 2007 05:26:08 -0800, "Andy the Perv Timberlake"
>
> <andy_theperv_timberl...@yahoo.com> wrote:
>
> just another stalking

By you, Marqueer




From 2963296680455118008
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
```

```
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 10 Mar 2007 15:34:41 -0600
Message-Id: <mokbc4-f0i.ln1@remote.clifto.com>
From: clifto <clifto@gmail.com>
Subject: Re: Detecting Ultrasound
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Date: Sat, 10 Mar 2007 15:32:38 -0600
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
<vtf5v25f1ba9s9u0tvdk02jehqtld9d1i4@4ax.com> <icabc4-m1h.ln1@remote.clifto.com>
<Wa2dnZxpQpvWYG_YnZ2dnUVZ_tninZ2d@bright.net>
<esv34q$24t$1@registered.motzarella.org>
Organization: Vast Right-Wing Conspiracy
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 22
NNTP-Posting-Host: 24.15.127.46
X-Trace: sv3-wLAKcnIXjIlw6qJTP/
2P3PbhTTxfiAExG9xznZj388qhvdARbzCuG45TyUIXbwlmoOyVJQ2/umyiIJM!lO6j86t3GzWIoHFeeuL/
5OkltawzTT337tNjEPrOB5AX6g4uAcGeV5rRWJsxhgM84JfxRiSlmUpw!QCrO84am7uOG
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12539
sci.electronics.design:204237
```

John Smith I wrote:
> Scott wrote:
>> clifto wrote:
>>> Stace MacGuyver wrote:
>>>> Suspend a thin shaving razor blade between two pieces of dental floss
>>>> and put
>>>> your ear close to the blade. Watch the razor vibrate.
>>>
>>> That's pretty cool, MacGuyver. Does the razor blade do anything?
>>
>> It cuts off your ear if you get too close ;)
>
> Be better if you could use it as an electric razor ...

Replace the dental floss with Litz wire and attach ends to 110 VAC.

Wait. Maybe not. Considering how many stations you can pick up with a razor-blade radio, that would probably interfere with vital communications all throughout the spectrum. What's the resonant frequency of a whisker?

--
        Martians drive SUVs! <http://oregonmag.com/MarsWarm307.html>

```
From -7075585555038895409
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: Mark@kb9rqz.org
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: Just another stalking bywoger thread
Date: Sat, 10 Mar 2007 16:33:03 -0500
Message-ID: <fv86v2tnlsgafbk0f57161lq660sstk9vu@4ax.com>
References: <1172267318.119745.218720@t69g2000cwt.googlegroups.com>
<45df8787$0$28161$4c368faf@roadrunner.com>
<1172303818.483077.293990@8g2000cwh.googlegroups.com>
<45e0d852$0$28102$4c368faf@roadrunner.com>
<45ebfd39$0$29219$dbd49001@news.wanadoo.nl>
<1173381894.008472.199190@q40g2000cwq.googlegroups.com>
<1173446768.720254.308580@h3g2000cwc.googlegroups.com>
<git5v2pijoi40o08ta56f04vm4qdam1bck@4ax.com>
<1173562218.256418.104350@h3g2000cwc.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 14
NNTP-Posting-Date: 10 Mar 2007 20:39:39 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12540
rec.radio.amateur.misc:33654 rec.radio.amateur.policy:84015

On 10 Mar 2007 13:30:18 -0800, "Andy the Perv Timberlake"
<andy_theperv_timberlake@yahoo.com> wrote:

>On Mar 10, 1:18 pm, M...@kb9rqz.org wrote:
>> On 9 Mar 2007 05:26:08 -0800, "Andy the Perv Timberlake"
>>
>> <andy_theperv_timberl...@yahoo.com> wrote:
>>
>> just another stalking
>
>By you, Marqueer
impossible to be stlaking you woger I would have to threaten you and
you would have to be afraid as a result of that threat
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com
```

```
From -9143860489688507054
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII
Path: g2news1.google.com!postnews.google.com!q40g2000cwq.googlegroups.com!not-for-
mail
From: miso@sushi.com
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
Date: 10 Mar 2007 14:11:50 -0800
Organization: http://groups.google.com
Lines: 27
Message-ID: <1173564710.216679.137070@q40g2000cwq.googlegroups.com>
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
NNTP-Posting-Host: 216.27.181.120
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1173564731 30717 127.0.0.1 (10 Mar 2007 22:12:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 10 Mar 2007 22:12:11 +0000 (UTC)
In-Reply-To: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.2; en-US; rv:1.8.1.2)
Gecko/20070219 Firefox/2.0.0.2,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q40g2000cwq.googlegroups.com; posting-host=216.27.181.120;
   posting-account=l2TzZAwAAAAsCKt7rXUtDXzcqYdjYZDP
Xref: g2news1.google.com rec.radio.amateur.homebrew:12541
sci.electronics.design:204262
```

On Mar 10, 5:18 am, p...@burridge8333.fsbusiness.co.uk wrote:

> Hi chaps,
>
> I suspect a neighbour of a friend of mine is using an ultrasonic bird-scarer to frighten off his pets. The man concerned won=B4t admit to it, but there are times when his dog and two cats just seem to get suddenly very distressed and hypermanic for no apparent reason. I`d like to at least eliminate this possibility before considering any others. So the question is, what=B4s the simplest way to detect ultrasound? My web research leads me to believe the area of interest is between 20 and 30khz. Most common bird scarers warble between these two limits which are of course above the range of human hearing. I=B4ve acquired an ultrasonic transducer that transmits on 41khz. If I couple this up to a wien-bridge oscillator trimmed to the same frequency, I figure I ought to be able to hear a warble if indeed this guy is using a birdscarer, because the difference between 41khz and 20khz-30khz will be audible to me. Is this feasible to "air mix" the two frequencies in this simple way and hear a result, or is something more complicated required?

> Thanks!

You need your detector to be low Q since you don't know the offending frequency. Some of these fancy sound cards do 196kHz sampling. A piezo microphone with amp into the sound card might do the trick.

Also, as other have suggest, the bat detector.

```
From -514213024751779512
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.germany.com!news.motzarella.org!
not-for-mail
From: John Smith I <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
Date: Sat, 10 Mar 2007 14:37:20 -0800
Organization: A noiseless patient Spider
Lines: 18
Message-ID: <esvbu4$ca7$1@registered.motzarella.org>
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: reader.motzarella.org U2FsdGVkX1/
DrJlH3+rqZrNZs3XtYjjSVXWBSPtDAsozD7NReaHWwv1+FYGxgFcjTRI70LdtEtVcVZan2c168zCw7UH+J
ToEFO7j23ClY0IY4nSU1qyJJG3Jn153OPOmsFK8FyGYllF9576XRuPrAbRuYJcXcMoGnQVSp1XbGGsTFpJ
2FC8ma0SMiHyBNZmnjn6UMJNOqVrncRpqyvy0EmC+DkT+vPFXFTkH4BPPRH7EANVlwXuuf6YnwH+2H2+dU
0CGFilYmySSFgptigEQaQ==
X-Complaints-To: Please send complaints to abuse@motzarella.org with full headers
NNTP-Posting-Date: Sat, 10 Mar 2007 22:36:53 +0000 (UTC)
In-Reply-To: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
X-Auth-Sender: U2FsdGVkX19+tXdTm288GO/b60E8ALZVK+nAKkKCgd5XW68L2Cx3zQ==
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12542
sci.electronics.design:204285
```

paul@burridge8333.fsbusiness.co.uk wrote:

> ...

Do you really want to hear it, or have a "field strength indicator"/locater?

Why not just a mike capable of "hearing" the ultrasonic freqs in question--feeding an opamp and meter?

Pointing the mike around should lead you into the correct direction and following the meter reading should lead you to the source(s).

Possibly can substitute a light or even a led in series with a pot and
use a visual indication of strength ...

JS

```
From -5492720945802879442
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news1.google.com!news.germany.com!news.motzarella.org!
not-for-mail
From: John Smith I <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
Date: Sat, 10 Mar 2007 14:46:56 -0800
Organization: A noiseless patient Spider
Lines: 27
Message-ID: <esvcg3$ca7$2@registered.motzarella.org>
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
<esvbu4$ca7$1@registered.motzarella.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: reader.motzarella.org U2FsdGVkX1/
V4lb8hPwSC10YdwTiDdAQF6kArUNikFDvFWk8Nw0QwpgbZjgMVxLiiTDkQkpq9i9c0YsOs7ofAlX4s1mcf
EPo6Tp2rqNh74y/
gAovGz+kfe1Mb5GqSh5ZsVDNmbHdJN4sQ12s9eZjzHQAmqYHM7dF1MaV47ApVEVVURoWc4jK21tP+9aQkf
tnnX4ecP2yOVU8VNnIK90GFs6unjW5+TRcvJtLfNDWlJaH20ZMT0hr3Tab52yj5/FFt/CAazMCMfL2ln/
dIBpK8w==
X-Complaints-To: Please send complaints to abuse@motzarella.org with full headers
NNTP-Posting-Date: Sat, 10 Mar 2007 22:46:27 +0000 (UTC)
In-Reply-To: <esvbu4$ca7$1@registered.motzarella.org>
X-Auth-Sender: U2FsdGVkX19YkO2+H58zzRpjiJ32HoBvQHfqcbZzCm8bQG7iAgYPEg==
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12543
sci.electronics.design:204289
```

John Smith I wrote:

> paul@burridge8333.fsbusiness.co.uk wrote:
>
> > ...
>
> Do you really want to hear it, or have a "field strength
> indicator"/locater?
>
> Why not just a mike capable of "hearing" the ultrasonic freqs in
> question--feeding an opamp and meter?
>
> Pointing the mike around should lead you into the correct direction and

> following the meter reading should lead you to the source(s).
>
> Possibly can substitute a light or even a led in series with a pot and
> use a visual indication of strength ...
>
> JS
>
>

Come to think of it, wouldn't take much more to square up the sine wave
out of the opam and drop a cmos decade-divider onto that output of the
opamp and feed an ear phone with the dividers output--30,000 becomes
3,000 hz--easily "hear-able!"

JS

From -4625719728025480263
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.glorb.com!news.alt.net
From: "Fat Cassie" <anon@anon>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Just another Morgasm
Date: Sat, 10 Mar 2007 18:22:55 -0500
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 22
Message-ID: <os45d.4mq.19.1@news.alt.net>
References: <1172267318.119745.218720@t69g2000cwt.googlegroups.com>
<45df8787$0$28161$4c368faf@roadrunner.com>
<1172303818.483077.293990@8g2000cwh.googlegroups.com>
<45e0d852$0$28102$4c368faf@roadrunner.com>
<45ebfd39$0$29219$dbd49001@news.wanadoo.nl>
<1173381894.008472.199190@q40g2000cwq.googlegroups.com>
<1173446768.720254.308580@h3g2000cwc.googlegroups.com>
<git5v2pijoi40o08ta56f04vm4qdam1bck@4ax.com>
<1173562218.256418.104350@h3g2000cwc.googlegroups.com>
<fv86v2tnlsgafbk0f57161lq660sstk9vu@4ax.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Xref: g2news1.google.com rec.radio.amateur.homebrew:12544
rec.radio.amateur.misc:33656 rec.radio.amateur.policy:84034

<Mark@kb9rqz.org> wrote in message
news:fv86v2tnlsgafbk0f57161lq660sstk9vu@4ax.com...
> On 10 Mar 2007 13:30:18 -0800, "Andy the Perv Timberlake"

```
> <andy_theperv_timberlake@yahoo.com> wrote:
>
> >On Mar 10, 1:18 pm, M...@kb9rqz.org wrote:
> >> On 9 Mar 2007 05:26:08 -0800, "Andy the Perv Timberlake"
> >>
> >> <andy_theperv_timberl...@yahoo.com> wrote:
> >>
> >> just another stalking
> >
> >By you, Marqueer
> impossible to be stlaking you woger I would have to threaten you and
> you would have to be afraid as a result of that threat


You clearly have your head up your ass, Mark.
You are a moral and mental pig.





From 7399300821428893042
X-Google-Thread: fc2a5,ed038184692ee88e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!h3g2000cwc.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Hams versus CBers and whatnot
Date: 10 Mar 2007 15:24:33 -0800
Organization: http://groups.google.com
Lines: 16
Message-ID: <1173569072.894131.11070@h3g2000cwc.googlegroups.com>
References: <1173531943.895443.202300@q40g2000cwq.googlegroups.com>
NNTP-Posting-Host: 66.19.119.57
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1173569089 20368 127.0.0.1 (10 Mar 2007 23:24:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 10 Mar 2007 23:24:49 +0000 (UTC)
In-Reply-To: <1173531943.895443.202300@q40g2000cwq.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h3g2000cwc.googlegroups.com; posting-host=66.19.119.57;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news1.google.com rec.radio.amateur.homebrew:12545


paul@burridge8333.fsbusiness.co.uk wrote:
> Well I take the original poster`s point, but it`s a case of "use it or
> lose it" and the more people that use the bands, the less likely it is
> that they`ll be taken away. So even if they are worked by wankers, at
> least the wankers are serving some purpose. Plus there is nothing to
> stop code lovers (of which I am one) from continuing to dit-dah away
> indefinitely. No one`s proposing to make CW illegal. Let`s try to be a
> little less elitist, gentlemen!

Andy writes:

  In my opinion, a very sensible post.....

            Andy  W4OAH in Eureka, Texas



From 3582043577355097434
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: Mark@kb9rqz.org
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: just another stalking thread
Date: Sat, 10 Mar 2007 18:24:58 -0500
Message-ID: <0hf6v21jm0sh3vebvc8mmlthveh276alou@4ax.com>
References: <45df8787$0$28161$4c368faf@roadrunner.com>
<1172303818.483077.293990@8g2000cwh.googlegroups.com>
<45e0d852$0$28102$4c368faf@roadrunner.com>
<45ebfd39$0$29219$dbd49001@news.wanadoo.nl>
<1173381894.008472.199190@q40g2000cwq.googlegroups.com>
<1173446768.720254.308580@h3g2000cwc.googlegroups.com>
<git5v2pijoi40o08ta56f04vm4qdam1bck@4ax.com>
<1173562218.256418.104350@h3g2000cwc.googlegroups.com>
<fv86v2tnlsgafbk0f57161lq660sstk9vu@4ax.com> <os45d.4mq.19.1@news.alt.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 28
NNTP-Posting-Date: 10 Mar 2007 22:31:35 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news1.google.com rec.radio.amateur.homebrew:12546
rec.radio.amateur.misc:33657 rec.radio.amateur.policy:84035

On Sat, 10 Mar 2007 18:22:55 -0500, "Fat Cassie" <anon@anon> wrote:

>
><Mark@kb9rqz.org> wrote in message
>news:fv86v2tnlsgafbk0f57161lq660sstk9vu@4ax.com...
>> On 10 Mar 2007 13:30:18 -0800, "Andy the Perv Timberlake"
>> <andy_theperv_timberlake@yahoo.com> wrote:
>>
>> >On Mar 10, 1:18 pm, M...@kb9rqz.org wrote:
>> >> On 9 Mar 2007 05:26:08 -0800, "Andy the Perv Timberlake"
>> >>
>> >> <andy_theperv_timberl...@yahoo.com> wrote:
>> >>
>> >> just another stalking
>> >
>> >By you, Marqueer
>> impossible to be stlaking you woger I would have to threaten you and
>> you would have to be afraid as a result of that threat
>
>
>You clearly have your head up your ass, Mark.

nope I don't going around making threats and turning this NG into sex
NG

>You are a moral and mental pig.
 that is YOU
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -4907984782500184138
X-Google-Thread: fc2a5,bdfe58bad8169a79
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!
news-out.ntli.net!newsrout1-gui.ntli.net!ntli.net!news.highwinds-media.com!
newspeer1-win.ntli.net!newsfe4-win.ntli.net.POSTED!53ab2750!not-for-mail
From: "Brian MW0GKX" <notsaying@here.com>
Newsgroups: rec.radio.amateur.homebrew
References: <4TEIh.57257$z54.42257@newsfe3-gui.ntli.net>
Subject: Re: Two metres mobile..Is it ok with airbags?
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <lFIIh.32233$OK6.8268@newsfe4-win.ntli.net>
Date: Sun, 11 Mar 2007 01:09:37 GMT
NNTP-Posting-Host: 82.6.115.199
X-Trace: newsfe4-win.ntli.net 1173575377 82.6.115.199 (Sun, 11 Mar 2007 01:09:37
GMT)
NNTP-Posting-Date: Sun, 11 Mar 2007 01:09:37 GMT
Organization: NTL
```

```
Xref: g2news1.google.com rec.radio.amateur.homebrew:12547
```

"Gwendoline Biggadike" <pjpennington@ntlworld.com> wrote in message
news:4TEIh.57257$z54.42257@newsfe3-gui.ntli.net...

>I have now a Wagon R car. It has two front air bags.
> Are they likely to be set off by ten watts at 145MHz.
> Is it safe to have mobile amateur radio and air bags?
>
> 73 de Pete g4egq

Hi Pete.

I have used various handies upto 10w output on 2meters and my IC2800 puts out 50ish on 2 (ant mounted on the roof about 6cm from one of the bags explosives!) and my Toyota Yaris has had no problems with any of its 9 airbags (10 if you count the missus!) so I would say go ahead!

73 Brian MW0GKX

```
From -722997325261938453
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.clear.net.nz!
news.clear.net.nz.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 10 Mar 2007 23:13:06 -0600
From: jasen <jasen@free.net.nz>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Detecting Ultrasound
Date: 11 Mar 2007 04:06:20 GMT
Organization: Debian GNU/Linux site
Message-ID: <esvv7s$3o8$2@jasen.is-a-geek.org>
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
<esvbu4$ca7$1@registered.motzarella.org> <esvcg3$ca7$2@registered.motzarella.org>
X-Face: ?)Aw4rXwN5u0~$nqKj`xPz>xHCwgi^q+^?Ri*+R(&uv2=E1Q0Zk(>h!
~o2ID@6{uf8s;a+M[5[U[QT7xFN%^gR"=tuJw%TXXR'Fp~W;(T"1(739R%m0Yyyv*gkGoPA.
$b,D.w:z+<'"=-lVT?6{T?=R^:W5g|E2#EhjKCa+nt":4b}
dU7GYB*HBxn&Td$@f%.kl^:7X8rQWd[NTc"P"u6nkisze/Q;8"9Z{peQF,w)7UjV$c|RO/mQW/
NMgWfr5*$-Z%u46"/00mx-,\R'fLPe.)^
User-Agent: slrn/0.9.8.1 (Debian)
X-Original-NNTP-Posting-Host: news.compass.net.nz
X-Original-Trace: 11 Mar 2007 18:13:02 +1300, news.compass.net.nz
Lines: 31
NNTP-Posting-Host: 203.97.37.6
X-Trace: sv3-HtIYDJOB1kOWbkchv+LmjQiFR2/
xVvl+cz45Jw33dcYqYFuBkykPaR9jrk61NYm7Yr6dNyB9usaYOno!3MAHjJ7Rw88fb/
U7Vvi3ZqOI4ptlNKvoQ7XB1GxwJCHGWpy2gQWGNfdu+Se9RzjzV00o2Q==
```

X-Complaints-To: Complaints to abuse@clear.net.nz
X-DMCA-Complaints-To: Complaints to abuse@clear.net.nz
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12548 sci.electronics.design:204500

On 2007-03-10, John Smith I <assemblywizard@gmail.com> wrote:
> John Smith I wrote:
>> paul@burridge8333.fsbusiness.co.uk wrote:
>>
>> > ...
>>
>> Do you really want to hear it, or have a "field strength
>> indicator"/locater?
>>
>> Why not just a mike capable of "hearing" the ultrasonic freqs in
>> question--feeding an opamp and meter?
>>
>> Pointing the mike around should lead you into the correct direction and
>> following the meter reading should lead you to the source(s).
>>
>> Possibly can substitute a light or even a led in series with a pot and
>> use a visual indication of strength ...
>>
>> JS
>>
>>
>
> Come to think of it, wouldn't take much more to square up the sine wave
> out of the opam and drop a cmos decade-divider onto that output of the
> opamp and feed an ear phone with the dividers output--30,000 becomes
> 3,000 hz--easily "hear-able!"

only if theres no other sound present in the mic signal.

and it will give no indication of signal amplitude.

From -1805576589407848327
X-Google-Thread: fc2a5,bdfe58bad8169a79
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!sn-xt-sjc-05!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roger <GetValidAddress@my.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Two metres mobile..Is it ok with airbags?
Date: Sun, 11 Mar 2007 05:59:30 -0400
Organization: Posted via Supernews, http://www.supernews.com

```
Message-ID: <mik7v25hi2b2igtq7u14qropbhf9tcfn8o@4ax.com>
References: <4TEIh.57257$z54.42257@newsfe3-gui.ntli.net>
X-Newsreader: Forte Agent 4.2/32.1117
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000722-4, 03/09/2007), Outbound message
X-Antivirus-Status: Clean
X-Complaints-To: abuse@supernews.com
Lines: 18
Xref: g2news1.google.com rec.radio.amateur.homebrew:12549

On Sat, 10 Mar 2007 20:51:12 GMT, "Gwendoline Biggadike"
<pjpennington@ntlworld.com> wrote:

>I have now a Wagon R car. It has two front air bags.
>Are they likely to be set off by ten watts at 145MHz.
>Is it safe to have mobile amateur radio and air bags?
>
>73 de Pete g4egq
>pj.pennington@ntlworld.com

Never even thought about it.
I run 50 or 160 out on 2-meters and 35 watts on 440 in a Toyota
4-Runner. The dealer ran the wiring for me.
My wife's set up in the Prius is a Kenwood TM-V7A with 50 out on 144
and 35 on 440.
Roger Halstead (K8RI & ARRL life member)
(N833R, S# CD-2 Worlds oldest Debonair)
www.rogerhalstead.com


From -6197796690284653O8
X-Google-Thread: fc2a5,56b575687b3b49c0
X-Google-Thread: 108122,56b575687b3b49c0
X-Google-Attributes: gidfc2a5,gid108122,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!peer-uk.news.demon.net!
kibo.news.demon.net!news.demon.co.uk!demon!g3msw.demon.co.uk!ken
From: Ken Ashcroft <ken@g3msw.demon.co.uk>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: Re: 8558B YIG Oscillator - Not Field Repairable?
Date: Sat, 10 Mar 2007 12:55:25 +0000
Organization: Stable Electronics
Lines: 22
Message-ID: <Yi$T+MB9qq8FFwu3@g3msw.demon.co.uk>
References: <McudnRaaKJXtWG3YnZ2dnUVZ_qOpnZ2d@comcast.com>
Reply-To: Ken Ashcroft <Ken@g3msw.demon.co.uk>
NNTP-Posting-Host: g3msw.demon.co.uk
Mime-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
X-Trace: news.demon.co.uk 1173612947 12383 83.104.130.18 (11 Mar 2007 11:35:47
GMT)
X-Complaints-To: abuse@demon.net
NNTP-Posting-Date: Sun, 11 Mar 2007 11:35:47 +0000 (UTC)
User-Agent: Turnpike/6.06-U (<fAJ2h+sTHM+W8k5A3tvDklP97r>)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12550
rec.radio.amateur.equipment:11670

In article <McudnRaaKJXtWG3YnZ2dnUVZ_qOpnZ2d@comcast.com>, George
Kavanagh <gk05XspamX@comcast.net> writes
I cannot help on the YIG device, but I do seek help on fixing the
horizontal deflection failure on mine. I have a full manual, but am
finding it tricky to drill down on the precise area.
>Has anyone attempted repair of said YIG Ocsillator sealed assembly ("A6")?
>in the HP 8558B Spectrum Analyser?  If so, were you successful?
>
>My copy is putting out -32dbm (spec is +15dbm); otherwise seems fine: sweeps
>OK, freq is right on, etc.
>
>I suspect the 3 transistor amplifier inside the sealed assy.
>
>Any suggestions?
>
>-georgeK  KB1HFT
>
>
>

--
Ken Ashcroft


From 4847146019889759573
X-Google-Thread: fc2a5,91ed0aae4eaea20d
X-Google-Thread: 112d1e,91ed0aae4eaea20d
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
From: Doug Smith <w9wi@invalid.nospam>
Subject: Re: Detecting Ultrasound
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.03.11.16.49.41.802616@invalid.nospam>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <1173532714.102483.158990@t69g2000cwt.googlegroups.com>
<lcf5v210tvuhb1th6k0ttdf0bodo44o9sj@4ax.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 15
Date: Sun, 11 Mar 2007 16:44:31 GMT
NNTP-Posting-Host: 4.153.67.69
X-Complaints-To: abuse@earthlink.net
```

X-Trace: newsread2.news.pas.earthlink.net 1173631471 4.153.67.69 (Sun, 11 Mar 2007 08:44:31 PST)
NNTP-Posting-Date: Sun, 11 Mar 2007 08:44:31 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:12551 sci.electronics.design:204656

On Sat, 10 Mar 2007 09:19:25 -0500, PeterD wrote:
> Why worry about it... His yard, his pets, his life...

I *think* what the OP is worried about is that his friends' pets are being scared off by his freinds' neighbor.

While I hate to discourage anyone from building something electronic, I do have to ask: what will one do if they learn that a bird-scarer *is* in use? Best of my knowledge, they aren't illegal.

If a bird-scarer works on dogs, then I find the details quite interesting. May have to work up a mobile version. Loose dogs allowed to roam a neighborhood are a serious safety issue for cyclists. (and I wonder if that's why the neighbor in question is trying to scare them off?)

From -760328605339761080
X-Google-Thread: fc2a5,44732bd59d1321aa
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!8g2000cwh.googlegroups.com!not-for-mail
From: "OH1GTF" <spam99@suomi24.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PowerSDR, SDRADIO etc - demodulation possible using only I or Q, why?
Date: 11 Mar 2007 12:51:22 -0700
Organization: http://groups.google.com
Lines: 6
Message-ID: <1173642682.032584.14890@8g2000cwh.googlegroups.com>
References: <1172859586.708320.189630@p10g2000cwp.googlegroups.com>
   <1172910450.301701.122550@s48g2000cws.googlegroups.com>
   <12uoki3f70eke49@corp.supernews.com>
   <1173140206.578002.64060@30g2000cwc.googlegroups.com>
   <12upen8si465885@corp.supernews.com>
   <1173419451.414568.206640@t69g2000cwt.googlegroups.com>
   <esrois$fvh$4@puck.litech.org>
NNTP-Posting-Host: 85.76.254.196
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173642687 3571 127.0.0.1 (11 Mar 2007 19:51:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 11 Mar 2007 19:51:27 +0000 (UTC)
In-Reply-To: <esrois$fvh$4@puck.litech.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; fi; rv:1.8.0.10) Gecko/

20070216 Firefox/1.5.0.10,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 8g2000cwh.googlegroups.com; posting-host=85.76.254.196;
   posting-account=KeA5zw0AAAA9p-GA2UD_ncK8cLQmQtqO
Xref: g2news1.google.com rec.radio.amateur.homebrew:12552

Oh sorry Mike, my fault, I talked so much about my transceiver that
the word some how caught to my head. Yep, the SDR-IQ is rx only. Sorry
for the mix up!

73 de Janne, OH1GTF

From -9007280485523191880
X-Google-Thread: fc2a5,ed038184692ee88e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!
trndny09.POSTED!832b2370!not-for-mail
From: "James Philopena" <jphilopena@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1173531943.895443.202300@q40g2000cwq.googlegroups.com>
Subject: Re: Hams versus CBers and whatnot
Lines: 35
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <iZ1Jh.1943$vV3.121@trndny09>
Date: Mon, 12 Mar 2007 01:24:30 GMT
NNTP-Posting-Host: 72.64.10.213
X-Complaints-To: abuse@verizon.net
X-Trace: trndny09 1173662670 72.64.10.213 (Sun, 11 Mar 2007 21:24:30 EDT)
NNTP-Posting-Date: Sun, 11 Mar 2007 21:24:30 EDT
Xref: g2news1.google.com rec.radio.amateur.homebrew:12553

<paul@burridge8333.fsbusiness.co.uk> wrote in message
news:1173531943.895443.202300@q40g2000cwq.googlegroups.com...
> Well I take the original poster`s point, but it`s a case of "use it or
> lose it" and the more people that use the bands, the less likely it is
> that they`ll be taken away. So even if they are worked by wankers, at
> least the wankers are serving some purpose. Plus there is nothing to
> stop code lovers (of which I am one) from continuing to dit-dah away
> indefinitely. No one`s proposing to make CW illegal. Let`s try to be a
> little less elitist, gentlemen!
>

Could not have said it better and your comments mirror my sentiments as well. Thank You

If we are to have fun and let this hobby flourish, we all need to work together to make it a model of humanity and acceptance. Just because one has passed code reception tests at some level does not make him/her the exemplarily model of the perfect ham. Look at all the child like behavior resulting in massive FCC fines of the past five years! These were all 'coded' hams. Some with 20WPM test behind them. Remember, we (the US) are one of the last to continue to have had a code requirement. Has the 'hamming' rest of the world gone to heck in a handbasket? No.

If you find it difficult to deal with the no coders, then it may be time for you to move on to another hobby. I welcome the 'new blood' as this will ensure our bands remain ours and might even cause equipment prices to come down - it's all in the law of supply and demand.

Jim Philopena, KB1NXE
Formerly: WN1VJW, DA2PJ, KA1VGP and for a time the IMD (no, not intermod - but some might say so;~) at AGA1WP

From -2252260603847387171
X-Google-Thread: fc2a5,49f916e344873b4d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!headwall.stanford.edu!newshub.stanford.edu!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range rural wireless high speed data options...
Date: 3 Mar 2007 19:28:38 GMT
Organization: The National Capital FreeNet
Lines: 36
Message-ID: <esci96$aqi$1@theodyn.ncf.ca>
References: <1172947038.139960.11470@t69g2000cwt.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1172950118 11090 134.117.136.48 (3 Mar 2007 19:28:38 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 3 Mar 2007 19:28:38 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:9236

"Day Brown" (daybrown@hughes.net) writes:

> No, I'm thinking about 180 mhz, kinda close to TV channel 8, but...
> out here, the nearest TV channel 8 transmitter is 300 miles away.
> Besides, TV antennas are being scrapped all the time; everyone is
> switching to Dish TV. Out in rural areas, RFI/EMI from ham gear no
> longer bothers anyone watching TV.
>

> Besides, seems like there mite be pulse emitters/detectors that work
> at this speed. No Carrier wave, no IF. Technically, its *NOT*
> "radio". Ordinary tuners would ignore it; it aint AM nor FM. A 12 db
> antenna would be about 13' foot long. Awta go 30 miles to an ISP in
> some town that stays up serving users on the weekends. I've tried all
> three of the local small town ISPs, which have a nasty habit of
> crashing on friday nite, and not coming back online til monday
> morning.
>

Of course it's radio. You'll find that if you aren't radiating a signal, there's no signal and it's not radio. Otherwise, it's radio. And that means licensing and all the rest.

And there's a good reason wifi is higher in frequency. Because the bandwidth is there, to allow for multiple signals. Likewise, the shorter range means losts of points can reuse the same frequency, because the range is quite limited. And of course, the higher the bandwidth of data, the more radio space it uses.

Move to a lower frequency, and you'll have less chance to control the signal. You may find there's too much interference to other users. There may not be enough radio bandwidth for everyone who wants it.

That you don't realize this would be radio is a good indication, like someone else suggests, that there is no solution for you because you don't have the grounding to go anywhere with it.

Michael VE2BVW

From 5640231793471318515
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!sn-xt-sjc-04!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: Now that CW is gone there will be more ham to non-ham conflicts.
Date: Sat, 03 Mar 2007 14:41:34 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12ujnbr8fr3pu5e@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
<1172267318.119745.218720@t69g2000cwt.googlegroups.com>
<45df8787$0$28161$4c368faf@roadrunner.com>
<1172303818.483077.293990@8g2000cwh.googlegroups.com>
<N6OdnYlWMeu52X3YnZ2dnUVZ_urinZ2d@comcast.com>

<2ofEh.5556$_73.4898@newsread2.news.pas.earthlink.net>
<1172500609.961208.223080@q2g2000cwa.googlegroups.com>
<%u7Gh.8269$tD2.7950@newsread1.news.pas.earthlink.net>
<P5dGh.45307$TF4.35991@newsfe16.lga> <escdgn$ck6$1@nnrp.linuxfan.it>
In-Reply-To: <escdgn$ck6$1@nnrp.linuxfan.it>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 35
Xref: g2news2.google.com rec.radio.amateur.homebrew:9237
rec.radio.amateur.misc:29674 rec.radio.amateur.policy:67350

Several things come to mind here:

Quantity vs quality we hear a lot about. The former is good for publishers and equipment manufacturers and the latter is good for interesting QSO's.

Someone mentioned the importance of ham radio as a service to the community. What makes ham radio so special that it has to be a service to anyone other than those who enjoy it? All such justifications are pure nonsense these days.

It is also frequently said that ham radio is an "old man's hobby". So what! There are plenty of hobbies for children. I for one enjoy getting away from teeny boppers.

I get a great deal of pleasure out of talking to people my age and exchanging experiences and how we got here. I have nothing in common with children. I would be delighted to elmer them but competing with computers, cell phones, drugs and teenage girls is beyond the call of duty.

I welcome them into the community but to go trolling for them is a waste of energy.

People complain about the crowded bands, QRM, rude behavior and yet whine about declining numbers.

Won't it be nice what all that open space on 75 is filled with CB level hams?

JACK K9ACT since 1955

p.s. check out the POW for what "old men" can do :)

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm

From -3850577540758737934
X-Google-Thread: fc2a5,7b25185d5ce4a229,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit

```
Path: g2news2.google.com!postnews.google.com!s48g2000cws.googlegroups.com!not-for-
mail
From: "TONY" <from_tl@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Europe to Test 1000s Chemicals on Millions of Animals
Date: 3 Mar 2007 15:05:15 -0800
Organization: http://groups.google.com
Lines: 52
Message-ID: <1172963115.857522.79740@s48g2000cws.googlegroups.com>
NNTP-Posting-Host: 84.9.163.9
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172963125 15180 127.0.0.1 (3 Mar 2007 23:05:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Mar 2007 23:05:25 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s48g2000cws.googlegroups.com; posting-host=84.9.163.9;
   posting-account=CgIiYQ0AAAAZbhw8cwKRIcrJ2P4EkIZl
Xref: g2news2.google.com rec.radio.amateur.homebrew:9238
```

Tony
Nottingham
England

3 March 2007

TO: All People Who Care

A new European Chemical Testing Policy called REACH has now been finalised by the European Union. Under these proposals Chemicals of every kind - from those used in industrial processes to the ingredients of consumer products - will be tested on Millions of animals from mice to fish to dogs, causing untold suffering.

Still worse, because of this reliance on outdated animal techniques, reliable and relevant information will not be provided and our safety will not be assured.

If you believe that REACH should make more use of Alternative Testing to test 1000s of Chemicals that have been in general use since before 1985 then please take action now.

If you are a European citizen please contact your local papers and own MEP asking them to promote the development of humane non-animal testing methods under the REACH legislation, which is the best hope we have for sparing animals the misery of a testing laboratory.

A sample letter can be found at the BUAV (British
Union for the Abolition of Vivisection) website at
www.BUAV.org (Select Campaigns, Chemical Testing,
Get Active then Writing to the local press).

For all Non-European members, you can still help.
Please tell all your colleagues and friends in the UK
and Europe about REACH. Write to your own local
papers to try and inform others about what is going
on in Europe.

The website for the European Parliament is
http://www.europarl.europa.eu.
Information on REACH, the New European Chemical
Testing Policy can be found here.

Everyone can help and you can make a difference.

Thank You

```
From -2890160949441045265
X-Google-Thread: fc2a5,49f916e344873b4d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s48g2000cws.googlegroups.com!not-for-
mail
From: "Day Brown" <daybrown@hughes.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range rural wireless high speed data options...
Date: 3 Mar 2007 23:56:29 -0800
Organization: http://groups.google.com
Lines: 107
Message-ID: <1172994989.867244.52320@s48g2000cws.googlegroups.com>
References: <1172947038.139960.11470@t69g2000cwt.googlegroups.com>
   <esci96$aqi$1@theodyn.ncf.ca>
NNTP-Posting-Host: 67.142.130.32
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172995000 17282 127.0.0.1 (4 Mar 2007 07:56:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 4 Mar 2007 07:56:40 +0000 (UTC)
In-Reply-To: <esci96$aqi$1@theodyn.ncf.ca>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.5) Gecko/20050203
Firefox/1.0 (Debian package 1.0.x.2-15),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s48g2000cws.googlegroups.com; posting-host=67.142.130.32;
   posting-account=6MK0NA0AAABKFZ-ktqBSHiBm1y9kT6gs
Xref: g2news2.google.com rec.radio.amateur.homebrew:9239
```

On Mar 3, 1:28 pm, e...@FreeNet.Carleton.CA (Michael Black) wrote:
> "Day Brown" (daybr...@hughes.net) writes:
> > No, I'm thinking about 180 mhz, kinda close to TV channel 8, but...
> > out here, the nearest TV channel 8 transmitter is 300 miles away.
> > Besides, TV antennas are being scrapped all the time; everyone is
> > switching to Dish TV. Out in rural areas, RFI/EMI from ham gear no
> > longer bothers anyone watching TV.
>
> > Besides, seems like there mite be pulse emitters/detectors that work
> > at this speed. No Carrier wave, no IF. Technically, its *NOT*
> > "radio". Ordinary tuners would ignore it; it aint AM nor FM. A 12 db
> > antenna would be about 13' foot long. Awta go 30 miles to an ISP in
> > some town that stays up serving users on the weekends. I've tried all
> > three of the local small town ISPs, which have a nasty habit of
> > crashing on friday nite, and not coming back online til monday
> > morning.
>
> Of course it's radio. You'll find that if you aren't radiating a signal,
> there's no signal and it's not radio. Otherwise, it's radio. And that
> means licensing and all the rest.
>
> And there's a good reason wifi is higher in frequency. Because the
> bandwidth is there, to allow for multiple signals. Likewise, the shorter
> range means losts of points can reuse the same frequency, because the range
> is quite limited. And of course, the higher the bandwidth of data, the
> more radio space it uses.
>
> Move to a lower frequency, and you'll have less chance to control the signal.
> You may find there's too much interference to other users. There may not
> be enough radio bandwidth for everyone who wants it.
>
> That you don't realize this would be radio is a good indication, like someone
> else suggests, that there is no solution for you because you don't have
> the grounding to go anywhere with it.

The whole reason there's a problem is that there aint that many users.
If there was, DSL would be here. If you drive from Little Rock north
thru the Ozarks up US 65 twards Springfield MO, most of the time you
can use your cell phone. But get 20 miles east or west of that string
of transponders, and its dead even if you are on a mountain, never
mind behind a ridgeline, much less down in a creek bottom.

For right now, there arent any other users. And even if I get this
developed and working, there wont be that many. The population density
is low. The biggest town in Van Buren county is Clinton, pop 3000, and
in Searcy county Marshall, 1200. And if you drive from Clinton to
Marshall, the only town is Leslie, pop 627. Moreover, if you drive up
US 65 from Leslie twards Marshall and hit the search button on your
FM, it'll find the Christian fund radio station in Marshall. Hit
'search' again, and it'll find.... the Christian fundy radio station
in Marhsall. There is dead air all over the TV and radio bands out
here that nobody is doing anything with, nor will they ever.

Bring a portable TV up here, and the rabbit ear antenna will find two TV channels: 4 & 6; and if you come down off the ridgetop, only 6. I got a 12ft boom Yagi on a 25' mast on the top of a ridge, and all I can get are 2,4,6,7,11 in watchable condition. 16,20,38,42 are too snowy to bother with. Anyone who wants to watch much TV or listen to the radio gets a satellite dish.

I'm only 6 air miles from Clinton, but the ISPs to hook up to are all in town, down in the valley with a mountain to get over. CB radio at 27mhz can bend down in there, but anything over 100 mhz looks dubious. Leslie has an ISP up on the side of a ridge, that would be close to line of sight, but I'd havta clearcut about 14 miles of timber to get thru unless I get down to 400 mhz which has a wavelength longer than wet pine needles. Even if I could get over that, the pine grows about 18"/year.

One of the reason folks live out here is we like the woods; there's a lot of it. National & state forest, game & fish land, transnational paper loblolly pine plantations and our own private woodlots. None of the commercially available transceivers can punch thru it all, especially when its wet. Looks like there's a problem with my Hughes.net satellite dish when it gets wet too. I called after the last hard rain, over a week ago, they said they'd get a service rep right out. I heard from him on thurs finally saying he'd be out next tues. Its a hundred mile drive, so its not somethign they like to do often.

I need a piece of equipment I can maintain myself and deal with the server end when I go to town shopping. Its only been in the last 5 years that Alltel in Searcy county replaced *rotary dial* with touchtone. Til then, the "Welcome Home" community fire dept had a party line. If you know what that is. The sheer backwardness of many rural areas makes low frequency transceivers necessary. I dont blame them; its damn expensive to bury cable when you need 3000' foot per customer. When I first got on line, I hadda run a mile of my own cable.

With 12db tuned yagi on each end, I should be able to cover the distance with only a few watts. It aint like it'd be walking on anything anyone else had, and it aint like the FCC is gonna bother sending agents all the way out here to try to find my setup. They couldnt even find jerks in major metro areas putting 1000 watts on a CB channel. We usta hear them walking all over our own neighborhood rigs in the woods.

All the folks in town have DSL; that leaves only maybe 15,000 spread out over 1250 sq miles of hills. And of those, with 4/house, less than 4000 PCs that mite possibly want to be online on about 200 acre farms each. Scattered in all directions. With the directionality of tuned Yagi, nobody would be interefering with anyone else's signal. Arent there notch filters that only accept a few megahertz? And pulse detectors that'd recognize clipped sine wave peaks for zero and the normal amplitude as one?

From 192960586283075155
X-Google-Thread: fc2a5,44732bd59d1321aa
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i80g2000cwc.googlegroups.com!not-for-mail
From: "OH1GTF" <spam99@suomi24.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PowerSDR, SDRADIO etc - demodulation possible using only I or Q, why?
Date: 4 Mar 2007 00:03:46 -0800
Organization: http://groups.google.com
Lines: 77
Message-ID: <1172995426.845438.275370@i80g2000cwc.googlegroups.com>
References: <1172859586.708320.189630@p10g2000cwp.googlegroups.com>
   <1172915323.383641.258370@p10g2000cwp.googlegroups.com>
NNTP-Posting-Host: 85.76.254.196
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172995437 1323 127.0.0.1 (4 Mar 2007 08:03:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 4 Mar 2007 08:03:57 +0000 (UTC)
In-Reply-To: <1172915323.383641.258370@p10g2000cwp.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; fi; rv:1.8.0.10) Gecko/20070216 Firefox/1.5.0.10,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i80g2000cwc.googlegroups.com; posting-host=85.76.254.196;
   posting-account=KeA5zw0AAAA9p-GA2UD_ncK8cLQmQtqO
Xref: g2news2.google.com rec.radio.amateur.homebrew:9240

On 3 maalis, 11:48, "MadEngineer" <glenn.b.di...@gmail.com> wrote:
> On Mar 2, 11:19 am, "OH1GTF" <spa...@suomi24.fi> wrote:
>
> > Hello mates!
>
> > I'm really confused. I just built an I/Q based transceiver (mostly
> > following the Youngblood articles) and just noticed that when I'm
> > using either PowerSDR or sradio, I can still demodulate everything if
> > I plug I or Q connector off from the rx.
>
> > I thought that PowerSDR and Sradio are both IQ based softwares. Is it
> > done just by mixing the audio to baseband. Where those programs need
> > the phase relation between I and Q. Yet, I noticed that putting the
> > other component back, the reception improved many db.
>
> > Looking for some answers. Thank you!
>
> > 73 de Janne, OH1GTF
>

> Hi Janne,
>
> I and Q each contain all received signals, and unless your ears are better than mine you can't really tell whether you're listening to I alone, Q alone or the full demodulated signal. I and Q are needed together to determine whether the signals demodulate into the upper or lower sideband, so if you have signals spread equally across the band, listening to only one of the channels will fold the upper and lower sideband signals together and you will receive twice as many signals in a given bandwidth. This is the same as a simple DC receiver. Note that your spectrum display will be symmetrical about the baseband frequency if you disconnect one channel--all signals appear twice--in the upper and lower sidebands.
>
> In theory, I and Q each contain half the received power, and if only one channel is present you spread the 3 dB reduced power to two places (upper and lower sideband) so you will see a 6 dB total loss with respect to the fully demodulated signal when you disconnect one channel.
>
> AM and FM demodulation can be done in software regardless of whether the signal is mixed to a higher audio frequency (say, 11 KHz as some SDRs do), or mixed right to baseband. For AM at least, the demodulation algorithm is probably a little simpler when mixed to baseband. For FM likely the opposite is true.   Once you understand the nature of IQ demodulation a little better the AM and FM demodulation algorithms may become self-apparent to you.
>
> 73,
> Glenn AC7ZN

Hi Glenn!

First of all, thanks for the really nice and informative reply.

So basically, what you are saying, is that we only need I or Q to demodulate AM or FM. Is I and Q then only needed to cancel out the other image ? What I would still like to know is, does the same 6 dB rule come in at the case of FM and AM ?

This area of ham radio is one of the most exciting things I've been playing with. I started with earlier mentioned polyphase network receiver few years ago and that encouraged me to go further. Yesterday I tested the TX of my SDR and it worked immediately, giving out 85 mW with nothing else that the exciter itself to a 50 ohm resistive load. Very impressive!

Thanks,

Janne - OH1GTF

From 5296587434172811765
X-Google-Thread: fc2a5,49f916e344873b4d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!news.maxwell.syr.edu!
news.netins.net!not-for-mail
From: Tehrasha Darkon <darkon@netins.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range rural wireless high speed data options...
Date: Sun, 4 Mar 2007 08:14:47 +0000 (UTC)
Organization: netINS InterNetNews site
Lines: 9
Message-ID: <esdv5n$pe8$1@news.netins.net>
References: <1172947038.139960.11470@t69g2000cwt.googlegroups.com>
NNTP-Posting-Host: desm-34-175.dsl.netins.net
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
X-Trace: news.netins.net 1172996087 26056 167.142.34.175 (4 Mar 2007 08:14:47 GMT)
X-Complaints-To: abuse@netins.net
NNTP-Posting-Date: Sun, 4 Mar 2007 08:14:47 +0000 (UTC)
User-Agent: pan 0.124 (Goblin Worlds)
Xref: g2news2.google.com rec.radio.amateur.homebrew:9241

On Sat, 03 Mar 2007 10:37:18 -0800, Day Brown wrote:

.>   But if you live out here, you
> know the power goes out. but if you plug their power supply into your
> UPS, you find the damn thing blocks the next two backed up power
> outlets. Hello?

Save yourself alot of bother. Buy a 'power strip' and plug it into your UPS.
Viola! Extra backed-up sockets.

From 7729765288351126728
X-Google-Thread: fc2a5,49f916e344873b4d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!198.186.194.247.MISMATCH!news-out.readnews.com!news-
xxxfer.readnews.com!news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Long range rural wireless high speed data options...
Date: Sun, 4 Mar 2007 08:44:03 +0000 (UTC)
Organization: MGT Consulting
Lines: 30
Message-ID: <slrneul1jm.1r1.gsm@cable.mendelson.com>
References: <1172947038.139960.11470@t69g2000cwt.googlegroups.com>
<esci96$aqi$1@theodyn.ncf.ca>
<1172994989.867244.52320@s48g2000cws.googlegroups.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-139-68-146.bb.netvision.net.il
X-Trace: marvin.misty.com 1172997843 18158 89.139.68.146 (4 Mar 2007 08:44:03 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Sun, 4 Mar 2007 08:44:03 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:9242

Day Brown wrote:

> All the folks in town have DSL; that leaves only maybe 15,000 spread
> out over 1250 sq miles of hills. And of those, with 4/house, less than
> 4000 PCs that mite possibly want to be online on about 200 acre farms
> each. Scattered in all directions. With the directionality of tuned
> Yagi, nobody would be interefering with anyone else's signal. Arent
> there notch filters that only accept a few megahertz? And pulse
> detectors that'd recognize clipped sine wave peaks for zero and the
> normal amplitude as one?

What you really need to do is to convince your local power company to do what Israel Electric did. A long time ago they figured that BPL was not worth it, but their right of way was. So they ran a fiber optic network along with their power lines and use it to monitor and control their distribituion equipment.

If they ever can get a license to sell Internet access, then they can just use the fiber optics.

As for the local telephone company just upgrading from dial service, isn't there a fairly large tax in the U.S. to support providing telephone service to rural customers? Where did that money go?

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
IL Voice: (07)-7424-1667 Fax ONLY: 972-2-648-1443 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/

From -1756302584414311510
X-Google-Thread: fc2a5,7b25185d5ce4a229
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!feeder.news-

service.com!68.142.88.77.MISMATCH!hwmnpeer03.ams!news.highwinds-media.com!
txtfeed2.tudelft.nl!tudelft.nl!txtfeed1.tudelft.nl!feeder3.cambrium.nl!
feeder4.cambrium.nl!feed.tweaknews.nl!63.218.45.10.MISMATCH!
nx01.iad01.newshosting.com!newshosting.com!216.196.98.140.MISMATCH!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.adelphia.com!news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 04 Mar 2007 08:32:18 -0600
From: "John Doe" <hgorden@adelphia.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1172963115.857522.79740@s48g2000cws.googlegroups.com>
Subject: Re: Europe to Test 1000s Chemicals on Millions of Animals
Date: Mon, 5 Mar 2007 09:32:24 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <-O6dnXkzDvHvRXfYnZ2dnUVZ_ragnZ2d@adelphia.com>
Lines: 62
NNTP-Posting-Host: 69.162.152.98
X-Trace: sv3-
gAXUztQV32hxUXisZS+v0qCF59GVXHKfgwfwhHKZ5HkL7ae9TNPaGrdoR4sDQM3bciUNMT/cS91nznO!
AHTEO5qMNnQresgPGNejhemffr0iK+hnV79uRzE5WR/HbCkni9yVnlilc0BKarFlXVo0IFxvtlk9!
VYZDaHqhS2JexS2KJ1eUpvH4fASI
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news2.google.com rec.radio.amateur.homebrew:9243

Its very interesting, that the following web site -

http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?
uri=CELEX:52003PC0644(01):EN:HTML

doesn't contain the information that you claim below????

"TONY" <from_tl@hotmail.com> wrote in message
news:1172963115.857522.79740@s48g2000cws.googlegroups.com...
> Tony
> Nottingham
> England
>
> 3 March 2007
>
> TO: All People Who Care
>
> A new European Chemical Testing Policy called
> REACH has now been finalised by the European
> Union. Under these proposals Chemicals of every
> kind - from those used in industrial processes to the

> ingredients of consumer products - will be tested on
> Millions of animals from mice to fish to dogs, causing
> untold suffering.
>
> Still worse, because of this reliance on outdated animal
> techniques, reliable and relevant information will not be
> provided and our safety will not be assured.
>
> If you believe that REACH should make more use of
> Alternative Testing to test 1000s of Chemicals that
> have been in general use since before 1985 then
> please take action now.
>
> If you are a European citizen please contact your local
> papers and own MEP asking them to promote the
> development of humane non-animal testing methods
> under the REACH legislation, which is the best hope
> we have for sparing animals the misery of a testing
> laboratory.
>
> A sample letter can be found at the BUAV (British
> Union for the Abolition of Vivisection) website at
> www.BUAV.org (Select Campaigns, Chemical Testing,
> Get Active then Writing to the local press).
>
> For all Non-European members, you can still help.
> Please tell all your colleagues and friends in the UK
> and Europe about REACH. Write to your own local
> papers to try and inform others about what is going
> on in Europe.
>
> The website for the European Parliament is
> http://www.europarl.europa.eu.
> Information on REACH, the New European Chemical
> Testing Policy can be found here.
>
> Everyone can help and you can make a difference.
>
> Thank You
>

From -1937465702072456417
X-Google-Thread: fc2a5,7b25185d5ce4a229
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed.hal-mli.net!feeder1.hal-mli.net!news.mbo.net!
news.litech.org!not-for-mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Europe to Test 1000s Chemicals on Millions of Animals
Date: Sun, 4 Mar 2007 17:16:15 +0000 (UTC)
Organization: Me?
Lines: 16
Sender: mikea@mikea.ath.cx
Message-ID: <eseusv$c3t$2@puck.litech.org>
References: <1172963115.857522.79740@s48g2000cws.googlegroups.com> <-O6dnXkzDvHvRXfYnZ2dnUVZ_ragnZ2d@adelphia.com>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1173028575 12413 68.15.203.64 (4 Mar 2007 17:16:15 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Sun, 4 Mar 2007 17:16:15 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:9244

On Mon, 5 Mar 2007 09:32:24 -0500, John Doe <hgorden@adelphia.net> quoted a troll.

```
                                                 .:\:/:.
             +-------------------+             .:\:\:/:/:.
             |   PLEASE DO NOT   |            :.:\:\:/:/:.:
             |  FEED THE TROLLS  |           :=.' -   - '.=:
             |                   |           '=(\ 9   9 /)='
             |   Thank you,      |              (  (_)  )
             |       Management  |              /`-vvv-'\
             +-------------------+             /         \
                     |  |        @@@          / /|,,,,,|\ \
                     |  |        @@@         /_//  /^\  \\_\
       @x@@x@        |  |         |/         WW(  (   )  )WW
       \||||/        |  |        \|           __\,,\ /,,/__
        \|||/        |  |         |      jgs (______Y______)
    /\/\/\/\/\/\/\/\//\/\\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
```

From -3947832956672528566
X-Google-Thread: fc2a5,bfd5cef3edcd9bbd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!feeder1.cambrium.nl!feed.tweaknews.nl!news2.euro.net!postnews2.euro.net!news.wanadoo.nl!not-for-mail
From: "R.A Abrahams" <r.aabrahams@wanadoo.nl>
Newsgroups: rec.radio.amateur.homebrew
References: <1171322270.786928.164360@a75g2000cwd.googlegroups.com>
Subject: Re: killing cars with high RF?
Date: Mon, 5 Mar 2007 11:35:31 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Lines: 55
Message-ID: <45ebf281$0$88592$dbd4d001@news.wanadoo.nl>
Organization: Wanadoo
NNTP-Posting-Date: 05 Mar 2007 10:35:45 GMT
NNTP-Posting-Host: 83.119.81.85
X-Trace: 1173090945 dr5.euro.net 88592 83.119.81.85:1143
X-Complaints-To: abuse@wanadoo.nl
Xref: g2news2.google.com rec.radio.amateur.homebrew:9245

hallo

It seem to be a issue
to the famous TV serie mythe busters
Seen the amount of respons it seems to be a hot item
i like discusions to learn things and broading my range of vision
also to know people of other backgrounds

can amateurradio blow up cars and/or its equipments ??

the today cars are crammed by electronics,sensors boardcomputers etc
is this equipment BCI free a simple case of BCI may casue a serious accident
by blocking a aboardcomputrer.
who is responsible the cars industry by ignoring the bci problem
or is the transmitting ham

Nelson's question does bci in cars exist ? Yes it does many examples
even trafficligths included

It seems to me that manufactories know the bci problem.often pcb's have
already holes for the needed components who is responsible

The bci problem has a profit too!! I live opposited a snackbar yougsters in
their cars equiped with stereo amp's   loadbawlers and their 130dba
bonky bonk music
A 100watts carrier stops that (not always)

nelson asked what 's the fieldstrength   of RF that effects carequipments
I have heard that a resaerch institute somewhere in SM or OZ has discovered
a strange effect into a TV set sensibillity to bci and tvi was tuned to the
amateurbands by manufactor !!
So the radioamateur had to solve the problem and not the manufactor !
I hope to see your response
73 de Ruud PA0RAB

"KE5MBX" <nelson.blaha@gmail.com> schreef in bericht
news:1171322270.786928.164360@a75g2000cwd.googlegroups.com...
> Hi,
> What's all this business I hear people talking about blasting people's
> car stereos or killing cars altogether with high-power RF? I run 2m,
> 10m, and 11m in my jeep and I'd like to sort out the fact from the
> legend and find out what kind of power I can use without risking

> damage to my jeep or cars around me. At what power level is front-end
> overload to a nearby radio likely? At what power level is damage
> likely, and to what componets?
>
> I am currently using only 50 watts on a 5/8 wave (2m), 25w on a 1/4
> wave (10m), legal 4w on a 1/4 wave (11m)
>
> Thanks,
> Nelson KE5MBX
>

From 3034683566647627511
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!newsfeed0.kamp.net!
newsfeed.kamp.net!213.239.142.2.MISMATCH!feed.xsnews.nl!border-1.ams.xsnews.nl!
68.142.88.75.MISMATCH!hwmnpeer01.ams!news.highwinds-media.com!feeder1.cambrium.nl!
feed.tweaknews.nl!news2.euro.net!postnews2.euro.net!news.wanadoo.nl!not-for-mail
From: "R.A Abrahams" <r.aabrahams@wanadoo.nl>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
<1172267318.119745.218720@t69g2000cwt.googlegroups.com>
<45df8787$0$28161$4c368faf@roadrunner.com>
<1172303818.483077.293990@8g2000cwh.googlegroups.com>
<45e0d852$0$28102$4c368faf@roadrunner.com>
Subject: Re: Now that CW is gone there will be more ham to non-ham conflicts.
Date: Mon, 5 Mar 2007 12:21:25 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Lines: 45
Message-ID: <45ebfd39$0$29219$dbd49001@news.wanadoo.nl>
Organization: Wanadoo
NNTP-Posting-Date: 05 Mar 2007 11:21:29 GMT
NNTP-Posting-Host: 83.119.81.85
X-Trace: 1173093689 dr7.euro.net 29219 83.119.81.85:1149
X-Complaints-To: abuse@wanadoo.nl
Xref: g2news2.google.com rec.radio.amateur.homebrew:9246
rec.radio.amateur.misc:29703 rec.radio.amateur.policy:67678

Hallo you ll'
Again a nice discussion and a lot of aspects
CWing or not or another information code
From historical point of vieuw CW is the oldest and in my opinion the

reliablest
and CW was a boarder between HF and VHF
caused by brain damage i can concentrate on the recieving dittery dah dit
of the morsecode
 and so became the morsecode a boarder betweem different kinds of
radioamateurs
practice cw was a license the use unmanageable power
practice cw became the roots of the QRPers
CWers became a elitegroup of amateurs however they did nt understand the
basic goal
after cw proof they rapidly forgot the code and have boasting on DX
and when they met an antenneaproblem they let solve their problem by the
techinical VHFers
SO be a "better " amateur however what is better contacting or
understanding
55 and 73 de ruud PA0RAB

"Stefan Wolfe" <stefan@eml.com> schreef in bericht
news:45e0d852$0$28102$4c368faf@roadrunner.com...
>
> "terry" <tsanford@nf.sympatico.ca> wrote in message
> news:1172303818.483077.293990@8g2000cwh.googlegroups.com...
>
>> Old codgers still using spark
>> transmitters and coherer receivers, pounding away in their dimly lit
>> shacks late at night and boasting about how many countries they have
>> contacted for 500 milliseconds per contact; and please QSL.
>
> Can you imagine that? People could communicate around the world simply by
> constructing a simple transmitter salvaged from a Model T ignition coil
> and a receiver contructed of metal filings in a glass tube between antenna
> and ground and a battery powered relay.
>
> Amazing. Absolutely amazing.
>
>
>

From -6876599686715228405
X-Google-Thread: fc2a5,44732bd59d1321aa
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!64g2000cwx.googlegroups.com!not-for-mail
From: "MadEngineer" <glenn.b.dixon@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PowerSDR, SDRADIO etc - demodulation possible using only I or Q, why?
Date: 5 Mar 2007 03:53:20 -0800

```
Organization: http://groups.google.com
Lines: 99
Message-ID: <1173095599.848647.121020@64g2000cwx.googlegroups.com>
References: <1172859586.708320.189630@p10g2000cwp.googlegroups.com>
   <1172915323.383641.258370@p10g2000cwp.googlegroups.com>
   <1172995426.845438.275370@i80g2000cwc.googlegroups.com>
NNTP-Posting-Host: 67.177.9.30
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173095606 32273 127.0.0.1 (5 Mar 2007 11:53:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 5 Mar 2007 11:53:26 +0000 (UTC)
In-Reply-To: <1172995426.845438.275370@i80g2000cwc.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.10)
Gecko/20070216 Firefox/1.5.0.10,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 64g2000cwx.googlegroups.com; posting-host=67.177.9.30;
   posting-account=EvBMNw0AAABX-Et6w0086s4DXqrY-API
Xref: g2news2.google.com rec.radio.amateur.homebrew:9247

On Mar 4, 1:03 am, "OH1GTF" <spa...@suomi24.fi> wrote:
> On 3 maalis, 11:48, "MadEngineer" <glenn.b.di...@gmail.com> wrote:
>
>
>
> > On Mar 2, 11:19 am, "OH1GTF" <spa...@suomi24.fi> wrote:
>
> > > Hello mates!
>
> > >  I'm really confused. I just built an I/Q based transceiver (mostly
> > > following the Youngblood articles) and just noticed that when I'm
> > > using either PowerSDR or sradio, I can still demodulate everything if
> > > I plug I or Q connector off from the rx.
>
> > >  I thought that PowerSDR and Sradio are both IQ based softwares. Is it
> > > done just by mixing the audio to baseband. Where those programs need
> > > the phase relation between I and Q. Yet, I noticed that putting the
> > > other component back, the reception improved many db.
>
> > >  Looking for some answers. Thank you!
>
> > > 73 de Janne, OH1GTF
>
> > Hi Janne,
>
> > I and Q each contain all received signals, and unless your ears are
> > better than mine you can't really tell whether you're listening to I
> > alone, Q alone or the full demodulated signal.  I and Q are needed
> > together to determine whether the signals demodulate into the upper or
> > lower sideband, so if you have signals spread equally across the band,
> > listening to only one of the channels will fold the upper and lower
> > sideband signals together and you will receive twice as many signals
```

> > in a given bandwidth. This is the same as a simple DC receiver. Note
> > that your spectrum display will be symmetrical about the baseband
> > frequency if you disconnect one channel--all signals appear twice--in
> > the upper and lower sidebands.
>
> > In theory, I and Q each contain half the received power, and if only
> > one channel is present you spread the 3 dB reduced power to two places
> > (upper and lower sideband) so you will see a 6 dB total loss with
> > respect to the fully demodulated signal when you disconnect one
> > channel.
>
> > AM and FM demodulation can be done in software regardless of whether
> > the signal is mixed to a higher audio frequency (say, 11 KHz as some
> > SDRs do), or mixed right to baseband. For AM at least, the
> > demodulation algorithm is probably a little simpler when mixed to
> > baseband. For FM likely the opposite is true.   Once you understand
> > the nature of IQ demodulation a little better the AM and FM
> > demodulation algorithms may become self-apparent to you.
>
> > 73,
> > Glenn AC7ZN
>
> Hi Glenn!
>
> First of all, thanks for the really nice and informative reply.
>
> So basically, what you are saying, is that we only need I or Q to
> demodulate
> AM or FM. Is I and Q then only needed to cancel out the other image ?
> What I would still like to know is, does the same 6 dB rule come in at
> the case of FM
> and AM ?
>
> This area of ham radio is one of the most exciting things I've been
> playing with.
> I started with earlier mentioned polyphase network receiver few years
> ago and that
> encouraged me to go further. Yesterday I tested the TX of my SDR and
> it worked
> immediately, giving out 85 mW with nothing else that the exciter
> itself to a 50 ohm
> resistive load. Very impressive!
>
> Thanks,
>
> Janne - OH1GTF

Hi Janne,

Yes, IQ receivers are fun. We typically use the complex frequency
domain to describe their operation, and in that domain they are very
elegant.

I just want to correct a misunderstanding: I or Q alone are not sufficient to demodulate AM or FM except in the special case of AM mixed so the carrier amplitude and phase are exactly at DC 0 volts. You need both I and Q together just as you do to reject unwanted sidebands in other modes.

My previous post was meant to say that it doesn't matter if you mix an AM or FM signal to baseband or to some audio IF such as 20 KHz, as long as you have both I and Q a software algorithm to demodulate it is possible.

73,
Glenn

From 1935976980181752154
X-Google-Thread: fc2a5,44732bd59d1321aa
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h3g2000cwc.googlegroups.com!not-for-mail
From: "MadEngineer" <glenn.b.dixon@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PowerSDR, SDRADIO etc - demodulation possible using only I or Q, why?
Date: 5 Mar 2007 04:23:08 -0800
Organization: http://groups.google.com
Lines: 14
Message-ID: <1173097388.901041.120110@h3g2000cwc.googlegroups.com>
References: <1172859586.708320.189630@p10g2000cwp.googlegroups.com>
   <1172915323.383641.258370@p10g2000cwp.googlegroups.com>
   <1172995426.845438.275370@i80g2000cwc.googlegroups.com>
NNTP-Posting-Host: 67.177.9.30
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173097405 4194 127.0.0.1 (5 Mar 2007 12:23:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 5 Mar 2007 12:23:25 +0000 (UTC)
In-Reply-To: <1172995426.845438.275370@i80g2000cwc.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.10) Gecko/20070216 Firefox/1.5.0.10,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h3g2000cwc.googlegroups.com; posting-host=67.177.9.30;
   posting-account=EvBMNw0AAABX-Et6w0086s4DXqrY-API
Xref: g2news2.google.com rec.radio.amateur.homebrew:9248

Sorry about not deleting unnecessary stuff in the last post--

AM and FM behave the same as other signals in an IQ receiver and if you use I or Q alone they have the same 6dB loss I mentioned. You can receive and demodulate AM and FM using only I or Q alone, but just as with other signals you need both I and Q together to be able to reject the unwanted mixing sideband and to recover all the power from your desired signal.

73,
Glenn

From -3306776252531993396
X-Google-Thread: fc2a5,44732bd59d1321aa
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!newshub.sdsu.edu!headwall.stanford.edu!newshub.stanford.edu!newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-02!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PowerSDR, SDRADIO etc - demodulation possible using only I or Q, why?
Date: Mon, 5 Mar 2007 09:24:16 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12uoki3f70eke49@corp.supernews.com>
References: <1172859586.708320.189630@p10g2000cwp.googlegroups.com>
<1172910450.301701.122550@s48g2000cws.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Complaints-To: abuse@supernews.com
Lines: 37
Xref: g2news2.google.com rec.radio.amateur.homebrew:9249

"OH1GTF" <spam99@suomi24.fi> wrote in message news:1172910450.301701.122550@s48g2000cws.googlegroups.com...

> One thing I want to add. I have built tayloe detector polyphase
> network receiver before and I know,
> that we need I and Q to cancel out the image. But how the heck AM and
> FM is done?

I and Q give you phase information; sqrt(I^2+Q^2) gets you the amplitude of the signal. Now... AM is not phase-modulated, right? So **assuming you can synchronize your carrier to the incoming carrier**, "I" will be the original signal and Q will be zero, so sqrt(I^2+Q^2)=I --> poof, only I needed! If you chose Q, you'd just get zero (ideally) out of the receiver... but since you're presumably in control of the local oscillator, you can just advance or retard it 90 degrees and now Q is in-phase with the signal and I is zero. Hence AM can be made to work with either I or Q... although it's not really recommended, since -- if you have an IQ demodulator anyway -- you can build SSB receivers as well, which is useful.

The tricky part is that "synchronizing to the incoming carrier" bit: If the receiver and transmitter have the exact same frequency but phase offsets of X degrees, the result is that I receives the original signal mulitplied by cos(X) and Q receives the original signal multiplied by sin(X). (This is just the general case of what I described above where things were 90 degrees out of phase.)

Notice that phase and amplituide, while connected by phase=arctan(Q/I) and amplitude=sqrt(I^2+Q^2), are two separate, uniquely "identificable" "things" that you can transmit. This is taken advantage of in, e.g., "compatble" AM stereo broadcast standards: In Motorola C-QUAM, for instance, I is set to 1+L+R whereas Q is set to L-R. If you run through the math, the amplitude of this is not 1+L+R, but it is "close enough" if L-R is relatively small, and hence compatibility with traditional (envelope) receivers is maintained, while allowing a synchronous receiver to dig out the full stereo information.

---Joel

From -4770204744353500447
X-Google-Thread: fc2a5,49f916e344873b4d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!sn-xt-sjc-05!sn-xt-sjc-01!sn-xt-sjc-08!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range rural wireless high speed data options...
Date: Mon, 5 Mar 2007 09:53:46 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12uom9c1evaq815@corp.supernews.com>
References: <1172947038.139960.11470@t69g2000cwt.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Complaints-To: abuse@supernews.com
Lines: 128
Xref: g2news2.google.com rec.radio.amateur.homebrew:9250

"Day Brown" <daybrown@hughes.net> wrote in message
news:1172947038.139960.11470@t69g2000cwt.googlegroups.com...
> Without clear Line Of Sight do not exist. I intend to solve that
> problem. If I do, I'll get rich.

There are plenty of solutions presently available, you're just saying you don't like the price tags attached. That's understandable enough -- and there is certainly money to be made if you can come up with cheaper solutions.

> Right now, I'm using the satellite data from hughes.net. Its not the

> high speed bandwidth advertised.

If you call them up and offer to pay lots of extra money, I'm sure they can fix this for you. :-) Still, satellite bandwidth is expensive -- even the military tries hard to avoid using them except in situations like yours, where there simply is no other easy way to get data in and out of a remote area.

> The power supply was designed to be
> plugged into the wall. [that's a period] But if you live out here, you
> know the power goes out. but if you plug their power supply into your
> UPS, you find the damn thing blocks the next two backed up power
> outlets. Hello?

You can get short (~6") "extension cords" that fix this problem (see: http://www.cyberguys.com/templates/searchproducts.asp?categoryID=35), or you can get a power strip that has some of outlets spaced for wall warts. Almost any store today will carry those.

> I've tried the 900mhz wireless transceiver. which needs a clear LOS
> (Line of Sight).

Only to get the maximum range. :-) Granted, the difference in usable distance between LoS and "straight through a bunch of trees" could be 100:1.

> I like living in the woods; and I'm not going to
> clearcut just so I can get a clear line of sight to the ISP
> transmitter tower. Hello?

ISPs are a business; they're not going to provide some "alternative" solution for your needs unless they think they can make money off of you. This is one of the things you have to accept when you chose to live in a remote situation -- *everything* gets more expensive, and some things -- like high-speed Internet access -- do so quite disproportionately (you know, this is kinda why the whole idea of "towns" was invented in the first place? :-)). Think back to only 10 years ago, when trying to get a 3Mbps Internet connection in a big city would have run thousands of bucks per month -- today it's about $55!

You might write your local senator or representative and ask that they pass some "rural high-speed Internetification act," but I wouldn't get my hopes up. :-) (Like the REA many years ago...)

> Besides, seems like there mite be pulse emitters/detectors that work
> at this speed. No Carrier wave, no IF. Technically, its *NOT*
> "radio".

It doesn't matter what you call it, the FCC regulates it. The pulse systems you describe are similar to how UWB (ultrawide bandwidth) radios work, and they're very much regulated by the FCC.

> I guarantee you that if you start transmitting high-speed pulses and a high
> enough power,
> Ordinary tuners would ignore it; it aint AM nor FM.

This is highly unlikely: A high enough power pulse will certainly show up as interference to any other radio system, even if it is just a brief "scratch."

> A 12 db
> antenna would be about 13' foot long. Awta go 30 miles to an ISP in
> some town that stays up serving users on the weekends. I've tried all
> three of the local small town ISPs, which have a nasty habit of
> crashing on friday nite, and not coming back online til monday
> morning.

Well, hey, more power to you if you can get it working... but don't coming crying to us if the FCC does hit you with some huge fine or a group of vigilantes spikes your coax and blows your transmitter.

> I called "support" one time to bitch, and mentioned that I used Linux.
> The response: "What's Linux?"

That's not surprising. Especially in a rural area, I suspect the number of Linux users is probably well under 1%... you might as well have called them up and asked if you could use your Atari ST with their services.

> But what's the best option to go from full duplex into the PC? will
> the standard LAN multiplex at 180mhz?

Define "standard LAN?"

In general protocols like Ethernet perform poorly when connected directly to wireless links: Being originally designed for wired systems, the protocols assume a very low bit error rate, which is exactly the wrong assumption to make for a wireless system. Hence, the throughput tends to drop like a rock unless you have a completely "solid" link.

I think you'd be best off doing the following:

1) Lose the attitude. It isn't helping you and just turns other off; you'll receive much better responses if you simply state your situation and what you're after rather than disparaging so many things, even if they do deserve it (save that for after it's all working and you're kicking back with your friends at a bar).
2) Plan on building yourself a tall tower such that you can mount a microwave dish on it and hit a tower back in town. With WiFi at 2.4GHz, 30 miles is probably a stretch, but at least you'll find there's a *lot* of support for people doing it... and the equipment to do so is reasonably inexpensive. You'll still be looking at thousands of dollars here -- perhaps >$10k --, but if you have a, say, $250k home, just pretend it's part of your mortgage. :-)
3) Start visiting the nearest neighbors you *do* have. Many of them would probably be interested in high-speed Internet access as well, and many would be willing to contribute financially to your cause. Additionally, you might consider doing some "mesh network" sort of approach, so that your signal only has to make it to the next house, which relays it to the next house, etc.
4) If you get an amateur radio license (quite easy these days), you can legally start pumping enough power at 2.4GHz that 30 miles will become easy.

This makes your Internet connection easy, although it then subjects the content of that connection to all those amateur radio rules about not using it for fiduciary gain, encrypted communications, etc. Many people will not be unduly restricted by those rules (it's still OK to, e.g., buy stuff from Amazon.Com... at least if you avoid the https: site? -- it is a little dicey here).

Good luck... let us know how it goes...

---Joel

From 7613352445576703798
X-Google-Thread: fc2a5,49f916e344873b4d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range rural wireless high speed data options...
Date: 5 Mar 2007 19:03:16 GMT
Organization: The National Capital FreeNet
Lines: 18
Message-ID: <eshphk$a48$1@theodyn.ncf.ca>
References: <1172947038.139960.11470@t69g2000cwt.googlegroups.com> <12uom9c1evaq815@corp.supernews.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1173121396 10376 134.117.136.48 (5 Mar 2007 19:03:16 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 5 Mar 2007 19:03:16 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:9251

"Joel Kolstad" (JKolstad71HatesSpam@yahoo.com) writes:

> You can get short (~6") "extension cords" that fix this problem (see:
> http://www.cyberguys.com/templates/searchproducts.asp?categoryID=35), or you
> can get a power strip that has some of outlets spaced for wall warts. Almost
> any store today will carry those.
>

Or it takes no real skill to go to the hardware store, buy a cheap extension cord, and a replacement plug, then cut down the extension cord and put the new plug on the bare end of the short pair of wires that go to the female end of the extension cord.

Of course, I only started doing that after I was using a full length extension cord, that I carefully rolled up and tied. Actaully modifying the extension cord was just to make it cleaner.

  Michael VE2BVW

```
From 3148072147493814447
X-Google-Thread: fc2a5,44732bd59d1321aa
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!newsfeed3.funet.fi!
newsfeed1.funet.fi!newsfeeds.funet.fi!feeder1.news.saunalahti.fi!
reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PowerSDR, SDRADIO etc - demodulation possible using only I or Q, why?
Message-ID: <tsuou2d1hmceni6t1u6gvpmpdr112bsbj3@4ax.com>
References: <1172859586.708320.189630@p10g2000cwp.googlegroups.com>
<1172915323.383641.258370@p10g2000cwp.googlegroups.com>
<1172995426.845438.275370@i80g2000cwc.googlegroups.com>
<1173095599.848647.121020@64g2000cwx.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 21
Date: Tue, 06 Mar 2007 01:19:15 +0200
NNTP-Posting-Host: 195.197.6.109
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1173136660 195.197.6.109 (Tue, 06 Mar 2007
01:17:40 EET)
NNTP-Posting-Date: Tue, 06 Mar 2007 01:17:40 EET
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:9252
```

On 5 Mar 2007 03:53:20 -0800, "MadEngineer" <glenn.b.dixon@gmail.com>
wrote:

>
>I just want to correct a misunderstanding: I or Q alone are not
>sufficient to demodulate AM or FM except in the special case of AM
>mixed so the carrier amplitude and phase are exactly at DC 0 volts.
>You need both I and Q together just as you do to reject unwanted
>sidebands in other modes.

If you have frequency lock but not phase lock, the phase detector in a phase locked loop will output a DC voltage proportional to the phase difference. When using the Q multiplier as a phase detector, just adjust the oscillator phase to bring the averaged Q output to zero and you will get the demodulated signal from the I multiplier.

Costas loops have been used for AM detection, so you might find some ideas from that direction too.

Paul OH3LWR

From -3739478223819604002
X-Google-Thread: fc2a5,49f916e344873b4d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!newsfeed3.funet.fi!newsfeeds.funet.fi!feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range rural wireless high speed data options...
Message-ID: <0jvou2tnht2fgbuevpne9sml7dmpvcjtjj@4ax.com>
References: <1172947038.139960.11470@t69g2000cwt.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 36
Date: Tue, 06 Mar 2007 01:19:17 +0200
NNTP-Posting-Host: 195.197.6.109
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1173136662 195.197.6.109 (Tue, 06 Mar 2007 01:17:42 EET)
NNTP-Posting-Date: Tue, 06 Mar 2007 01:17:42 EET
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:9253

On 3 Mar 2007 10:37:18 -0800, "Day Brown" <daybrown@hughes.net> wrote:

>
>I've tried the 900mhz wireless transceiver. which needs a clear LOS
>(Line of Sight). I like living in the woods; and I'm not going to
>clearcut just so I can get a clear line of sight to the ISP
>transmitter tower. Hello?

For usable throughput at reasonable power you definitively need the LOS path.

To get LOS, all you need is to move your antenna high enough. Towers up to several hundred meters high are available commercially. Less reliable solutions are flying the antenna under a kite or a balloon.

If this is too expensive, I would suggest moving to a more densely populated area. You will have to find an optimum for the cost_of_land + cost_of_telecommunication.

As others have suggested, it might be enough if you have a LOS path to your neighbour and they have a LOS path to their neighbour and finally one neighbour have LOS contact to the ISP.

One other solution would be to move a repeater to a hilltop visible both from your site and from the ISP, but there is the problem of powering it. Solar cells might be an option, unless you live North of the Arctic circle or the sky is cloudy all the time.

A passive reflector at the hilltop might also be possible, but this will require very narrow beams, which will require large antennas at both ends of the link, in practice in the upper microwave bands or even IR or visible light. However, at these frequencies clouds etc. will disrupt the communication.

Paul OH3LWR

```
From -8255311497587659123
X-Google-Thread: fc2a5,4fa373c25c8e8a4c,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 05 Mar 2007 17:49:53 -0600
From: Kenneth Grimm <kdgrimm@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FS:  17 isues of Communications Quarterly
Date: Mon, 05 Mar 2007 18:49:18 -0500
Organization: BAMA
Message-ID: <n1bpu29vlerdjgnj1quainm5et6f4o4f3g@4ax.com>
X-Newsreader: Forte Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 13
NNTP-Posting-Host: 24.127.5.202
X-Trace: sv3-pGZKnDfcMOSTmeVc1EuUpZhy27a+sa8Tr5lI85s25G0jKYcauLpdwo3YhITyZ/j3Ll/
J3muxBa/L55a!KfK5/L5Zxt5jD1tpNFvbGOT0iL02OHJsOBPgx02Y8CG4ZF10Utyp714wjp08m/
eNTcIww8n/lKBl!kBWgtAm/
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news2.google.com rec.radio.amateur.homebrew:9254
```

I have the following 17 issues of Communications Quarterly for sale:
1992 - Summer; 1993 - Spring, Summer; 1994 - Spring, Summer; 1995 - Summer; 1997 - Spring, Summer, Fall; 1998 - Spring, Summer, Fall, Winter; 1999 - Spring, Summer, Fall, Winter.
Full of technical and home brew articles for the ham. Cover price of each issue was $9.95. All 17 issues for $20 plus shipping.

Ken K4XL
k4xl@arrl.net

*** BoatAnchor Manual Archive ***
On the web at http://bama.sbc.edu and http://bama.edebris.com
FTP site info: bama.sbc.edu login: anonymous p/w: youremailadr

```
From 6883342912129774002
X-Google-Thread: fc2a5,44732bd59d1321aa
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!30g2000cwc.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PowerSDR, SDRADIO etc - demodulation possible using only I or Q, why?
Date: 5 Mar 2007 16:16:46 -0800
Organization: http://groups.google.com
Lines: 100
Message-ID: <1173140206.578002.64060@30g2000cwc.googlegroups.com>
References: <1172859586.708320.189630@p10g2000cwp.googlegroups.com>
   <1172910450.301701.122550@s48g2000cws.googlegroups.com>
   <12uoki3f70eke49@corp.supernews.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173140227 22200 127.0.0.1 (6 Mar 2007 00:17:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 6 Mar 2007 00:17:07 +0000 (UTC)
In-Reply-To: <12uoki3f70eke49@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-te08.proxy.aol.com[CFC87228] (Prism/1.1.9), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: 30g2000cwc.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:9255
```

From: "Joel Kolstad" <JKolstad71HatesS...@yahoo.com> on Mon, Mar 5
2007 9:24 am

>"OH1GTF" <spa...@suomi24.fi> wrote in message
>
>> One thing I want to add. I have built tayloe detector polyphase
>> network receiver before and I know,
>> that we need I and Q to cancel out the image. But how the heck AM and
>> FM is done?
>
>I and Q give you phase information; sqrt(I^2+Q^2) gets you the amplitude of
>the signal. Now... AM is not phase-modulated, right? So **assuming you can
>synchronize your carrier to the incoming carrier**, "I" will be the original

>signal and Q will be zero, so sqrt(I^2+Q^2)=I --> poof, only I needed! If you chose Q, you'd just get zero (ideally) out of the receiver... but since you're presumably in control of the local oscillator, you can just advance or retard it 90 degrees and now Q is in-phase with the signal and I is zero. Hence AM can be made to work with either I or Q... although it's not really recommended, since -- if you have an IQ demodulator anyway -- you can build SSB receivers as well, which is useful.

Good post, Joel. Let me emphasize some more simplistic points for other readers:

BOTH I (in-phase) and Q (quadrature) carry the SAME amplitude variation as modulation, ergo the AM information can be taken from either one if desired.

Selection of sideband for AM uses the phase DIFFERENCE between I and Q that, combined with a wideband audio relative phase-shift network in a linear (algebraic addition/subtraction) mixing circuit (just op-amps), selects the desired AM sideband.

>The tricky part is that "synchronizing to the incoming carrier" bit: If the receiver and transmitter have the exact same frequency but phase offsets of X degrees, the result is that I receives the original signal mulitplied by cos(X) and Q receives the original signal multiplied by sin(X). (This is just the general case of what I described above where things were 90 degrees out of phase.)

Heh, heh, while a concise statement of what it is, the above is going to be a snow job to those not familiar enough with more-advanced math. I know it got me a few decades ago and I just finished explaining that to another last month (off-line with the advantage of some scratch paper to show the relationships).

Locking the AM carrier to the local detector sub-circuit oscillator can be done by simply running the whole IF signal into a LIMITER to blot out the sidebands. The resulting limited carrier is then used as a reference to lock the local (detector) oscillator. "Lock" may be simplistic since the old Motorola MC1330 video detector simply limits the carrier internally, uses a single L-C external circuit to keep the internal I and Q references at quadrature, and the two internal "product detectors" output is linearly added internally. Blessedly simple circuit, just one 8-pin DIP and a very ordinary L-C that isn't critical in tuning. I used that in a bank of 8 pulse detectors having carriers up to 62 MHz with no problems (even crammed into a thin space).

FM detection by similar, but NOT identical means, to AM. The modulation equations for FM and PM don't allow that similarity since sideband content is not really close to AM. That is done in the more familiar "ratio detector" or "quadrature detector" (sometimes an alternate name)

found in consumer electronics SOCs for FM receivers.
Try as I might this morning I couldn't put together a
text-only simple description of how that critter works. :-(

"Synchronous detection" of AM can be done on the same
model of the internals of the Motorola MC1330 IC with,
perhaps some more finesse applied to the detector's
local oscillator to remove some of the noise on low-level
input signals; not a terribly-important thing nor precise
since the oscillator's lock DC signal can be lowpassed
to around a half-second time constant in the loop filter.

>Notice that phase and amplituide, while connected by phase=arctan(Q/I) and
>amplitude=sqrt(I^2+Q^2), are two separate, uniquely "identificable" "things"
>that you can transmit. This is taken advantage of in, e.g., "compatble" AM
>stereo broadcast standards: In Motorola C-QUAM, for instance, I is set to
>1+L+R whereas Q is set to L-R. If you run through the math, the amplitude of
>this is not 1+L+R, but it is "close enough" if L-R is relatively small, and
>hence compatibility with traditional (envelope) receivers is maintained, while
>allowing a synchronous receiver to dig out the full stereo information.

C-QUAM follows the FM Stereo system where the demodulated
audio is the sum of Left plus Right. One hears (directly)
both sources for monophonic audio. The supersonic audio
carries Left minus Right audio. Linearly added and
subtracted, the Left plus Left and Right plus Right gets
the individual "ears" separated. The C-QUAM audio does
have a slight stereo distortion on odd selective conditions
that favor one sideband over another locally, typically
the effect of electric power distribution lines close to
the receiver site. Typical on my particular street. :-(

73, LenAnderson@ieee.org

From 2774986672043862606
X-Google-Thread: fc2a5,44732bd59d1321aa
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!news.tele.dk!feed118.news.tele.dk!news.tele.dk!small.news.tele.dk!sn-xt-sjc-02!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PowerSDR, SDRADIO etc - demodulation possible using only I or Q, why?
Date: Mon, 5 Mar 2007 16:50:48 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12upen8si465885@corp.supernews.com>
References: <1172859586.708320.189630@p10g2000cwp.googlegroups.com>
<1172910450.301701.122550@s48g2000cws.googlegroups.com>
<12uoki3f70eke49@corp.supernews.com>
<1173140206.578002.64060@30g2000cwc.googlegroups.com>

X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Complaints-To: abuse@supernews.com
Lines: 24
Xref: g2news2.google.com rec.radio.amateur.homebrew:9256

Thanks for the additions, Len!

<LenAnderson@ieee.org> wrote in message
news:1173140206.578002.64060@30g2000cwc.googlegroups.com...
>   Heh, heh, while a concise statement of what it is, the above
>   is going to be a snow job to those not familiar enough with
>   more-advanced math.

Many textbooks and professors tell you the "bad news" about a phase difference and that unwanted cos(theta) term... but they seldom mention that what "I taketh," "Q giveth," and that you haven't actually lost anything yet -- if you have both I and Q available -- just because you aren't phase-locked. I suppose this is because, at that point, most textbooks are still hundreds of pages away from discussing I-Q methods.

A lot of the texts make quite a mire out of the whole "arbitrary band-limited signal impressed upon a carrier" bit. I think most people are almost better off ignoring it initially (it seems to come up within the first few chapters in many texts!) and then coming back to it once they have a good "feel" for how phase modulation techniques work.

---Joel

From -748219321804138821
X-Google-Thread: fc2a5,80633577b06ab72f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 05 Mar 2007 19:01:52 -0600
Date: Tue, 06 Mar 2007 01:05:24 +0000
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/20060910 SeaMonkey/1.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Electret Condenser Mic Question
References: <88zEh.14108$sv6.184@trndny08>
<1172844253.192244.24380@h3g2000cwc.googlegroups.com>
<1172861696.908855.91550@z35g2000cwz.googlegroups.com>

```
In-Reply-To: <1172861696.908855.91550@z35g2000cwz.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <MIqdnTISXYQdIHHYRVnyhAA@pipex.net>
Lines: 16
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yHqrZ5S9+SBsKQ==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news2.google.com rec.radio.amateur.homebrew:9257

>    Quite true on wideband audio response and the necessary
>    amplification that must follow it.
>
>    Working around stray RF fields can cause other problems
>    around electret microphones.  They are inherently high-
>    impedance so one has to pay attention to the VLF and up
>    stray RF because of that high impedance...especially if
>    using newer op-amps or other active devices having high
>    frequency amplification.  It is a compromise in design:
>    attenuate the VLF and above response but hold the
>    microphone amplifier response flat out to at least 10 KHz.
====================================
You probably mean the last line to be ...........not more than approx 3
kHz.  After all we talk 'phone' operation.

Frank   GM0CSZ  / KN6WH       ( from W6 back in chilly GM )


From 1129753564101350823
X-Google-Thread: fc2a5,49f916e344873b4d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q40g2000cwq.googlegroups.com!not-for-
mail
From: "Day Brown" <daybrown@hughes.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range rural wireless high speed data options...
Date: 5 Mar 2007 21:57:04 -0800
Organization: http://groups.google.com
Lines: 50
Message-ID: <1173160624.098198.36550@q40g2000cwq.googlegroups.com>
References: <1172947038.139960.11470@t69g2000cwt.googlegroups.com>
   <esci96$aqi$1@theodyn.ncf.ca>
   <1172994989.867244.52320@s48g2000cws.googlegroups.com>
   <slrneul1jm.1r1.gsm@cable.mendelson.com>
```

NNTP-Posting-Host: 67.142.130.31
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173160639 10204 127.0.0.1 (6 Mar 2007 05:57:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 6 Mar 2007 05:57:19 +0000 (UTC)
In-Reply-To: <slrneul1jm.1r1.gsm@cable.mendelson.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.5) Gecko/20050203 Firefox/1.0 (Debian package 1.0.x.2-15),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q40g2000cwq.googlegroups.com; posting-host=67.142.130.31;
   posting-account=6MK0NA0AAABKFZ-ktqBSHiBm1y9kT6gs
Xref: g2news2.google.com rec.radio.amateur.homebrew:9258

On Mar 4, 2:44 am, g...@mendelson.com (Geoffrey S. Mendelson) wrote:

> What you really need to do is to convince your local power company to do what Israel Electric did. A long time ago they figured that BPL was not worth it, but their right of way was. So they ran a fiber optic network along with their power lines and use it to monitor and control their distribituion equipment.
>
> If they ever can get a license to sell Internet access, then they can just use the fiber optics.
>
> As for the local telephone company just upgrading from dial service, isn't there a fairly large tax in the U.S. to support providing telephone service to rural customers? Where did that money go?

Alltel used the money to put up the cellular transponders along US 65 & in Harrison, its largest shopping zone.

Compare the population density of Israel with the Ozarks. Lotsa folks beside me, still have property beyond the grid. That's much of why folks move out here; they want to get waaaaay back. There are lotsa places you can go outside at nite, and if you turn out the lites, its totally pitch black because there are no other lights in any direction. Lotsa folks own real estate entirely surrounded by National forest, family farms that were never bought up.

There are simialar regions in the Rockies. I even read about a 'net' that used packet radio spread across hundreds of miles of mountains. Canada, Siberia, Australia, and other regions are also way too thinly populated to afford anyone running cable.

we all know what lightning sounds like. The Titanic had a similar "spark transmitter", Not that different from the spark coil in a gas engine. I can see designing a circuit with a resonant tank to produce a pulse with a wavelength matching a tuned Yagi. No carrier wave. No frequency or amplitude modulation. And without being hooked up to a tuned yagi pointed in the correct direction, none of the AM/FM/TV tuners would pick it up. No IF either. A continuous train of pulses would look like a carrier wave, but that aint what *data* is.

If, for instance a "1" is a postive pulse, but a "0" negative, and the sequence of 0100011101010100110.... keeps changing, as it would with data, then tuners would ignore it. There's no sin wave. Zeners have been used in surge suppressors rated in nsec and I've seen sin wave illustrations of the circuitry in psec intervals. Seems like something mite be done.

Anyone know the data rate on the IR inputs on mthbds? Seems like the response time on IR diodes is pretty quick too... Feeding the mthbd with whatever came in an IR detector would islolate it from the antenna in case there really was a nearby lightning strike.

```
From -2096438948030070652
X-Google-Thread: fc2a5,49f916e344873b4d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!8g2000cwh.googlegroups.com!not-for-
mail
From: "Day Brown" <daybrown@hughes.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range rural wireless high speed data options...
Date: 5 Mar 2007 22:22:01 -0800
Organization: http://groups.google.com
Lines: 38
Message-ID: <1173162121.284707.25420@8g2000cwh.googlegroups.com>
References: <1172947038.139960.11470@t69g2000cwt.googlegroups.com>
   <0jvou2tnht2fgbuevpne9sml7dmpvcjtjj@4ax.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173162138 14012 127.0.0.1 (6 Mar 2007 06:22:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 6 Mar 2007 06:22:18 +0000 (UTC)
In-Reply-To: <0jvou2tnht2fgbuevpne9sml7dmpvcjtjj@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.5) Gecko/20050203
Firefox/1.0 (Debian package 1.0.x.2-15),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 8g2000cwh.googlegroups.com; posting-host=67.142.130.46;
   posting-account=6MK0NA0AAABKFZ-ktqBSHiBm1y9kT6gs
Xref: g2news2.google.com rec.radio.amateur.homebrew:9259
```

Of course, I already had the power strip. My point was that the power supply was designed by engineers who didnt think about where it would be used. I have other power supplies, like for the printer and scanner that have both input and output cords that dont crowd out anything else on your UPS.

And of course, part of the reason I ended up living out here was that it was so cheap. Even now, land can be had for less than 1000$/acre. Hardly any of the real estate ads are for homes & property over 250k.

Lotsa other old hippies in the woods who never made much money, never will, but we can afford to live here.

There's lotsa 34 ft TV antenna masts laying around behind the barns since folks put in the dish TV. Lotsa 12' foot booms for Yagis too, to be had for scrap metal prices.

I can see where you all with your licenses and equipment mite be worried about the FCC, but not out here. Its 100 miles to Little Rock if you wanna take a Ham exam. Why should the bureacrats runnin the FCC these days be any more competent than those running FEMA or The VA? And if I make this thing cheap enuf, there wont be any *money* in it for them coming out to get me. My ass aint worth anything, and I dont have clear title to the land. All they'd get would be 20$ worth of scrap metal.

Back when we used CB radios to talk to each other, we bitched to the FCC about jerks in urban areas putting *1000* watts on a CB channel. Where was the FCC then? No, man, out here, we are off the radar map. I dont expect any help from the Arkansas public service either. We dont have the votes, and we dont have the money, so they dont care what we do.

The way electonic parts prices have fallen, it'll prolly cost me more to put up the antennas. And without a tuned yagi, none of the commercial tuners will pick up anything. If anyone has a more appropriate forum to raise these questions in, I'd be grateful, and quit bothering you.

From -4241086604380626782
X-Google-Thread: fc2a5,4fa373c25c8e8a4c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
208.49.83.154.MISMATCH!uns-out.usenetserver.com!news.usenetserver.com!
pc02.usenetserver.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew
References: <n1bpu29vlerdjgnj1quainm5et6f4o4f3g@4ax.com>
Subject: Re: 17 isues of Communications Quarterly
Date: Tue, 6 Mar 2007 06:30:05 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <8d0be$45ed5ec1$45011502$27938@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 18

X-Trace: 8d0be45ed5ec1e0a4b0a727938
Xref: g2news2.google.com rec.radio.amateur.homebrew:9260

"Kenneth Grimm" <kdgrimm@comcast.net> wrote in message
news:n1bpu29vlerdjgnj1quainm5et6f4o4f3g@4ax.com...
>I have the following 17 issues of Communications Quarterly for sale:
> 1992 - Summer; 1993 - Spring, Summer; 1994 - Spring, Summer; 1995 -
> Summer; 1997 - Spring, Summer, Fall; 1998 - Spring, Summer, Fall,
> Winter; 1999 - Spring, Summer, Fall, Winter.
> Full of technical and home brew articles for the ham. Cover price of
> each issue was $9.95. All 17 issues for $20 plus shipping.
>
> Ken K4XL
> k4xl@arrl.net
>
> *** BoatAnchor Manual Archive ***
> On the web at http://bama.sbc.edu and http://bama.edebris.com
> FTP site info: bama.sbc.edu login: anonymous p/w: youremailadr

From -1096953482965909984
X-Google-Thread: fc2a5,4fa373c25c8e8a4c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!
208.49.83.154!uns-out.usenetserver.com!news.usenetserver.com!
pc03.usenetserver.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew
References: <n1bpu29vlerdjgnj1quainm5et6f4o4f3g@4ax.com>
Subject: Re: 17 isues of Communications Quarterly
Date: Tue, 6 Mar 2007 06:34:46 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <da80$45ed5fda$45011502$28303@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 25
X-Trace: 0da8045ed5fdae0a4b0a728303
Xref: g2news2.google.com rec.radio.amateur.homebrew:9261

Hi Ken,
  I would love to have them.
 Please email me at treeamdx@knology.net
(Please remove the tree for proper address)
and we'll arrange the details.

 Thanks you,
       Mike KF4ITA

"Kenneth Grimm" <kdgrimm@comcast.net> wrote in message
news:n1bpu29vlerdjgnj1quainm5et6f4o4f3g@4ax.com...
>I have the following 17 issues of Communications Quarterly for sale:
> 1992 - Summer; 1993 - Spring, Summer; 1994 - Spring, Summer; 1995 -
> Summer; 1997 - Spring, Summer, Fall; 1998 - Spring, Summer, Fall,
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> Ken K4XL
> k4xl@arrl.net
>
> *** BoatAnchor Manual Archive ***
> On the web at http://bama.sbc.edu and http://bama.edebris.com
> FTP site info: bama.sbc.edu login: anonymous p/w: youremailadr

From 6119179715360838104
X-Google-Thread: fc2a5,49f916e344873b4d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!sn-xt-sjc-05!sn-xt-sjc-10!sn-xt-sjc-07!
sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range rural wireless high speed data options...
Date: Tue, 6 Mar 2007 18:07:34 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12us7j6rsf8jh51@corp.supernews.com>
References: <1172947038.139960.11470@t69g2000cwt.googlegroups.com>
<0jvou2tnht2fgbuevpne9sml7dmpvcjtjj@4ax.com>
<1173162121.284707.25420@8g2000cwh.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 37
Xref: g2news2.google.com rec.radio.amateur.homebrew:9262

"Day Brown" <daybrown@hughes.net> wrote in message
news:1173162121.284707.25420@8g2000cwh.googlegroups.com...
> My point was that the power
> supply was designed by engineers who didnt think about where it would
> be used.

I very much doubt that -- it's much more likely they simply decided that saving a little money was worth more than adding a little user convenience.

> And if I make this thing cheap enuf, there wont be any *money* in it
> for them coming out to get me.

Again, I disagree. If you make it so cheap it really catches on, sooner or later it *will* be used in an area such that it intereferes with someone with deep pockets and you'll get sucked into a lawsuit. If you're going to so flagrantly ignore FCC regulations, you should simply publish *plans* for your design so that you can't personally be convicted of selling non-type-accepted equipment... unless you do want to have bars for windows for some time. :-)

> Back when we used CB radios to talk to each other, we bitched to the
> FCC about jerks in urban areas putting *1000* watts on a CB channel.
> Where was the FCC then? No, man, out here, we are off the radar map.

The FCC does still routinely bust retailers for selling CB band linear amplifiers and rigs that can transmit outside the CB frequencies.

I still think your best bet it to use 2.4GHz WiFi gear linked "house to house" with cheap dish antennas on towers. Get that amateur radio license and you can legally run enough power that you'll easily make the distances, and no one will question why it is you're buying, e.g., 10W 2.4GHz amplifiers. Those dish antennas are probably going to be a lot cheaper than a bunch of Yagis anyway...

---Joel

From 4949707684700526667
X-Google-Thread: fc2a5,49f916e344873b4d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
novia!news-out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range rural wireless high speed data options...
Date: Wed, 7 Mar 2007 05:54:02 +0000 (UTC)
Organization: MGT Consulting
Lines: 26
Message-ID: <slrneuskkg.mo2.gsm@cable.mendelson.com>
References: <1172947038.139960.11470@t69g2000cwt.googlegroups.com>
<0jvou2tnht2fgbuevpne9sml7dmpvcjtjj@4ax.com>
<1173162121.284707.25420@8g2000cwh.googlegroups.com>
<12us7j6rsf8jh51@corp.supernews.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-139-68-146.bb.netvision.net.il
X-Trace: marvin.misty.com 1173246842 11481 89.139.68.146 (7 Mar 2007 05:54:02 GMT)

X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Wed, 7 Mar 2007 05:54:02 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:9263

Joel Kolstad wrote:

> I still think your best bet it to use 2.4GHz WiFi gear linked "house to house"
> with cheap dish antennas on towers. Get that amateur radio license and you
> can legally run enough power that you'll easily make the distances, and no one
> will question why it is you're buying, e.g., 10W 2.4GHz amplifiers. Those
> dish antennas are probably going to be a lot cheaper than a bunch of Yagis
> anyway...

The FCC allows 4 watts EIRP for fixed point to point WiFi links. At 2.4gHz this is a lot of power, usually created by focusing the output of a regular router or similar device with a small dish or Yagi.

For example, the well publicised "Pringles Can" antenna can be easily modified to put out that much from a 100mw source. You need line of site, but if you figure a two routers, antennas, wires, etc can be purchased in the U.S. for less than $200, you can set up a whole relay system.

The latency will be much too high for VoIP and video conferencing, but websurfing and file downloading would be fine.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
IL Voice: (07)-7424-1667 Fax ONLY: 972-2-648-1443 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/

From -1049881760602163499
X-Google-Thread: fc2a5,44e9cb9b2b86a9b,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!postnews.google.com!8g2000cwh.googlegroups.com!not-for-mail
From: "Gian, I7SWX" <i7swx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: G3SBI H-Mode Mixer as tested by PA3AKE
Date: 7 Mar 2007 06:58:53 -0800
Organization: http://groups.google.com
Lines: 56
Message-ID: <1173279533.001325.160260@8g2000cwh.googlegroups.com>
NNTP-Posting-Host: 82.55.78.216
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173279545 29175 127.0.0.1 (7 Mar 2007 14:59:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 7 Mar 2007 14:59:05 +0000 (UTC)
User-Agent: G2/1.0

X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 8g2000cwh.googlegroups.com; posting-host=82.55.78.216;
   posting-account=UdnmUQ0AAABqWSw2iezMYLt5SVbNOulx
Xref: g2news2.google.com rec.radio.amateur.homebrew:9264

Hi All,

If you like to know more about D'MIXER that removed the mixer from the most critical stages in a receiver see what Martein Bakker, PA3AKE, has just published; a magnificent document regarding his evaluation of Colin Horrabin's "H" mode mixer under various test conditions and using many different transformers and active devices. He spent thousands of Euros on proper test equipment, and as many hours obtaining his published results. This is the real way we should do measurement but certainly it requires a lot of investment in $$$$ and working time and also knowledge. Martein's document has a lot of pages with a lot of information and it is a good reading for peoples that know what he is talking about and also for people that want to learn. This is a sharing of information and knowledge that sometimes is missing in our amateur radio environment. As Harold Johnson, W4ZCB, stated: I commend the read to your attention, LOTS of meat in the pages. You can get the document at:

    http://www.xs4all.nl/~martein/pa3ake/mixers-overview5.pdf

I am sure you will see that Harold is right, there is a lot of meat to chew and digest too. The comparison is not only associated to the FST3125 switches but there is a very interesting comparison with modern video switches.

A good friend of mine, Eraldo Sbarbati, I4SBX, has done a similar work during 2005 winter. A lot of work. He has made tests on commercial mixers and then on the H-Mode with the 3 transformers (G3SBI original configuration, used in the CDG2000) and the 2 transformers (I7SWX simplified version, used in the STAR) using various balun cores (size, material and turns configurations) using homebrewed transformers. He has also checked where the mixers loose the 1:3 ratio. I4SBX has started the publication of these reports in the Italian Ham Magazine RKE, Radio Kit Elettronica, since this past summer. The final two articles fully dedicated to the H-Mode Mixer, with particular focus on the two transformers version, are expected to be published in the March and April 2007.
Eraldo's tests include the divide by two (74AC74), and fundamental squarers (using 74AC86 XOR and LVDS receivers). The comparison is also referred to the super CDG2000 RTX, front end and post-mixer roofing filter.

It will not be possible to make the translation from Italian into English of all six issues due to copyright and the work required. I will discuss with I4SBX any possibility of publishing a digest of his work, including his tables and graphics produced using the N2PK VNA.

You will be kept posted ... if ...

G3SBI H-Mode Mixer invention has still a lot to give ... Thanks so
much Colin!

73 and enjoy PA3AKE's document.

Gian
I7SWX

```
From 4836414788872235968
X-Google-Thread: fc2a5,44e9cb9b2b86a9b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!feed.xsnews.nl!
border-1.ams.xsnews.nl!feeder.news-service.com!xlned.com!feeder1.xlned.com!news-
out1.kabelfoon.nl!newsfeed.kabelfoon.nl!bandi.nntp.kabelfoon.nl!zen.net.uk!
demorgan.zen.co.uk!feeder.news.heanet.ie!news.indigo.ie!not-for-mail
From: Eamon Skelton <Xnospam@oceanfree.net>
Subject: Re: G3SBI H-Mode Mixer as tested by PA3AKE
Newsgroups: rec.radio.amateur.homebrew
References: <1173279533.001325.160260@8g2000cwh.googlegroups.com>
User-Agent: pan 0.119 (Karma Hunters)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 12
Message-ID: <QACHh.18450$j7.367848@news.indigo.ie>
Date: Wed, 07 Mar 2007 17:26:08 GMT
NNTP-Posting-Host: 83.71.104.207
X-Complaints-To: abuse@eircom.net
X-Trace: news.indigo.ie 1173288368 83.71.104.207 (Wed, 07 Mar 2007 17:26:08 GMT)
NNTP-Posting-Date: Wed, 07 Mar 2007 17:26:08 GMT
Organization: Eircom.Net http://www.eircom.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:9265
```

On Wed, 07 Mar 2007 06:58:53 -0800, Gian, I7SWX wrote:

> http://www.xs4all.nl/~martein/pa3ake/mixers-overview5.pdf

Interesting stuff! Thanks for posting the link Gian.

73, Ed. EI9GQ.

--
Linux 2.6.18
Remove 'X' to reply by E-Mail

```
From 1409659994128601209
```

```
X-Google-Thread: fc2a5,3c5be9ea6c76158b,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j27g2000cwj.googlegroups.com!not-for-
mail
From: btadeyl001@hotmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: One crystal with several mixers?
Date: 7 Mar 2007 11:18:31 -0800
Organization: http://groups.google.com
Lines: 12
Message-ID: <1173295111.444796.268900@j27g2000cwj.googlegroups.com>
NNTP-Posting-Host: 151.200.90.2
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173295118 3723 127.0.0.1 (7 Mar 2007 19:18:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 7 Mar 2007 19:18:38 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.0; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j27g2000cwj.googlegroups.com; posting-host=151.200.90.2;
   posting-account=nuh58A0AAABnj1rOxDMxQSzcUkS-Ga_I
Xref: g2news2.google.com rec.radio.amateur.homebrew:9267
```

I'm designing a box that will use four SA605 receiver/mixer chips that all need the same crystal reference. Even with all the good application notes for the SA605, I'm not sure how to do this. Do I build a Colpitts oscillator from transistors, buffer it, and then use this output as an "external LO" for the mixers? Or do I connect up the crystal to the SA605 oscillator pins as usual and then tap off of this for the other chips? Using a function generator as an external LO, I get the best results injecting a 300mVpp sine wave, if that is useful.

Thank you!

```
From 3006165821591069610
X-Google-Thread: fc2a5,3c5be9ea6c76158b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
cyclone1.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny04.POSTED!0da99462!
not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1173295111.444796.268900@j27g2000cwj.googlegroups.com>
Subject: Re: One crystal with several mixers?
```

Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <vAJHh.412$jf.371@trndny04>
Date: Thu, 08 Mar 2007 01:23:39 GMT
NNTP-Posting-Host: 68.236.45.224
X-Complaints-To: abuse@verizon.net
X-Trace: trndny04 1173317019 68.236.45.224 (Wed, 07 Mar 2007 20:23:39 EST)
NNTP-Posting-Date: Wed, 07 Mar 2007 20:23:39 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:9268

Either approach will work

Joe
W3JDR

<btadeyl001@hotmail.com> wrote in message
news:1173295111.444796.268900@j27g2000cwj.googlegroups.com...
> I'm designing a box that will use four SA605 receiver/mixer chips that
> all need the same crystal reference. Even with all the good
> application notes for the SA605, I'm not sure how to do this. Do I
> build a Colpitts oscillator from transistors, buffer it, and then use
> this output as an "external LO" for the mixers? Or do I connect up
> the crystal to the SA605 oscillator pins as usual and then tap off of
> this for the other chips? Using a function generator as an external
> LO, I get the best results injecting a 300mVpp sine wave, if that is
> useful.
>
> Thank you!
>

From 6192020665887084059
X-Google-Thread: fc2a5,49f916e344873b4d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!64g2000cwx.googlegroups.com!not-for-mail
From: "Day Brown" <daybrown@hughes.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range rural wireless high speed data options...
Date: 7 Mar 2007 19:04:03 -0800
Organization: http://groups.google.com
Lines: 50
Message-ID: <1173323043.512117.56920@64g2000cwx.googlegroups.com>
References: <1172947038.139960.11470@t69g2000cwt.googlegroups.com>
   <0jvou2tnht2fgbuevpne9sml7dmpvcjtjj@4ax.com>

```
   <1173162121.284707.25420@8g2000cwh.googlegroups.com>
   <12us7j6rsf8jh51@corp.supernews.com>
NNTP-Posting-Host: 67.142.130.21
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173323050 16462 127.0.0.1 (8 Mar 2007 03:04:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Mar 2007 03:04:10 +0000 (UTC)
In-Reply-To: <12us7j6rsf8jh51@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.0.5) Gecko/
20060626 Firefox/1.5.0.5 (Debian-1.5.dfsg+1.5.0.5.x.1-2),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 64g2000cwx.googlegroups.com; posting-host=67.142.130.21;
   posting-account=6MK0NA0AAABKFZ-ktqBSHiBm1y9kT6gs
Xref: g2news1.google.com rec.radio.amateur.homebrew:12484

On Mar 6, 8:07 pm, "Joel Kolstad" <JKolstad71HatesS...@yahoo.com>
wrote:
> "Day Brown" <daybr...@hughes.net> wrote in message
>
> news:1173162121.284707.25420@8g2000cwh.googlegroups.com...
>
> > My point was that the power
> > supply was designed by engineers who didnt think about where it would
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> I very much doubt that -- it's much more likely they simply decided that
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> > for them coming out to get me.
>
> Again, I disagree.  If you make it so cheap it really catches on, sooner or
> later it *will* be used in an area such that it intereferes with someone with
> deep pockets and you'll get sucked into a lawsuit.  If you're going to so
> flagrantly ignore FCC regulations, you should simply publish *plans* for your
> design so that you can't personally be convicted of selling non-type-accepted
> equipment... unless you do want to have bars for windows for some time. :-)
>
> > Back when we used CB radios to talk to each other, we bitched to the
> > FCC about jerks in urban areas putting *1000* watts on a CB channel.
> > Where was the FCC then? No, man, out here, we are off the radar map.
>
> The FCC does still routinely bust retailers for selling CB band linear
> amplifiers and rigs that can transmit outside the CB frequencies.
>
> I still think your best bet it to use 2.4GHz WiFi gear linked "house to house"
> with cheap dish antennas on towers.  Get that amateur radio license and you
> can legally run enough power that you'll easily make the distances, and no one
> will question why it is you're buying, e.g., 10W 2.4GHz amplifiers.  Those
> dish antennas are probably going to be a lot cheaper than a bunch of Yagis
> anyway...
```

Even if its cheap, it aint *easy*. a 180 mhz Yagi on a 30 foot pole
compared to the soup can users would take to in shorter range high
density regions where they need more channels.

But in any case, whether you all know the technical issues or not, I'm
not going to get that feedback here, so I'll quit bothering you.
My address is 1984 Kirkendoll rd, Clinton AR, 72031. you have my email
addy. send it to the FCC for all I care. That's how much I think they
will give fuck what goes on out here. Besides, there is a whole world
out there of remote areas that are not served well beyond the reach,
whatever that is, of the FCC or their ass kissing agenda to big media.
It this takes off, by the time the FCC figures it out, it'll be like
trying to get CB users to register. <snurk>

From 6868046444889676138
X-Google-Thread: fc2a5,44e9cb9b2b86a9b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!h3g2000cwc.googlegroups.com!not-for-mail
From: "Gian, I7SWX" <i7swx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: G3SBI H-Mode Mixer as tested by PA3AKE
Date: 8 Mar 2007 07:51:03 -0800
Organization: http://groups.google.com
Lines: 46
Message-ID: <1173369063.415746.265300@h3g2000cwc.googlegroups.com>
References: <1173279533.001325.160260@8g2000cwh.googlegroups.com>
   <1e2uu2lskdt8vucan9jn7k3mpca4tmicaa@4ax.com>
NNTP-Posting-Host: 82.55.78.216
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173369069 6560 127.0.0.1 (8 Mar 2007 15:51:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Mar 2007 15:51:09 +0000 (UTC)
In-Reply-To: <1e2uu2lskdt8vucan9jn7k3mpca4tmicaa@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h3g2000cwc.googlegroups.com; posting-host=82.55.78.216;
   posting-account=UdnmUQ0AAABqWSw2iezMYLt5SVbNOulx
Xref: g2news1.google.com rec.radio.amateur.homebrew:12485

On Mar 7, 7:55 pm, no.s...@no.uce.bellatlantic.net wrote:
> On 7 Mar 2007 06:58:53 -0800, "Gian, I7SWX" <i...@yahoo.com> wrote:
>
>
>
> >Hi All,
>

> >If you like to know more about D'MIXER that removed the mixer from the
> >most critical stages in a receiver see what Martein Bakker, PA3AKE,
> --SNIP--
>
> >   http://www.xs4all.nl/~martein/pa3ake/mixers-overview5.pdf
>
> Gian,
>
> It is indeed interesting. Most people look at this and apply it for
> recievers that have high dynamic range.   I've experimented with
> this topology as a transmit mixer as I can put a fair amount of RF
> power in and get a significant amount out without high LO drive
> requirements. This easily saves one to two TX gain stages and
> attendant power needs. For transmitting the high overload threshold
> is very useful.
>
> Allison
> KB!GMX

Hi Ed, good information.... I have replaced the 2nd mixer in an FT1000MP with an I7SWX 2 transformer configuration, plus reviewing the 2nd IF gain and .... the user (contester and DX man) is so happy he does not want to send it to a friend for review... hi!!!

Hi Allison,

you are right. The H-Mode is not only a mixer for receiver, it is also for transmitter. The H-Mode Mixer is bi-directional so you need only one in an RTX.

BTW, when you here my good friend Art, K1GBX, say hello to him and his xyl ... tell him you did work me on 50 MHz ...he will get crazy...at me ... hi

73

Gian
I7SWX

From -8715905463588122549
X-Google-Thread: fc2a5,31ed52dea3512ade,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 08 Mar 2007 10:11:19 -0600
From: "jack" <jdwalton@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Help identifying connector
Date: Thu, 8 Mar 2007 11:14:54 -0500

X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1506
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1506
Message-ID: <YbOdnez19Ic6qG3YnZ2dnUVZ_qSrnZ2d@comcast.com>
Lines: 5
NNTP-Posting-Host: 69.249.69.72
X-Trace: sv3-R2o+SrG9rT6eaHYjT82b6BcbpXKJ9QDCPzMVy0c5yf6chNfMiLkS6gCbjoUNIS0daAPeq+/G42aq0TY!kjq7Ik3vjQ3Bwc4k+PWutU8BPBrf5o3qaKFWJ36ad0HpUzrmUPSWg/UaR0/umyeKLabarueo8vpw!+cSMSUap+d3FeI1UOpTgqdtWOJYY
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12486

Is this an SMC connector? -- a pair of them are on the diff-amp input to a Digital Equipment power supply tester -- it has 10-32 threads -- http://www.tech-diy.com/connector.jpg

From 8290972022827604072
X-Google-Thread: fc2a5,31ed52dea3512ade
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: "RST Engineering" <jim@rstengineering.com>
Newsgroups: rec.radio.amateur.homebrew
References: <YbOdnez19Ic6qG3YnZ2dnUVZ_qSrnZ2d@comcast.com>
Subject: Re: Help identifying connector
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <jvXHh.36$xb3.115826@news.sisna.com>
Date: Thu, 8 Mar 2007 09:13:23 -0800
NNTP-Posting-Host: 70.41.242.222
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1173374031 70.41.242.222 (Thu, 08 Mar 2007 10:13:51 MST)
NNTP-Posting-Date: Thu, 08 Mar 2007 10:13:51 MST
Organization: Internet News Service
X-Received-Date: Thu, 08 Mar 2007 10:13:51 MST (news.sisna.com)
Xref: g2news1.google.com rec.radio.amateur.homebrew:12487

The photo wasn't very well detailed, but from what I can see it looks to be an Amphenol type 27.

Jim

"jack" <jdwalton@comcast.net> wrote in message
news:YbOdnez19Ic6qG3YnZ2dnUVZ_qSrnZ2d@comcast.com...
> Is this an SMC connector? -- a pair of them are on the diff-amp input to a
> Digital Equipment power supply tester -- it has 10-32 threads --
> http://www.tech-diy.com/connector.jpg
>
>

```
From 1102160216344972073
X-Google-Thread: fc2a5,3c5be9ea6c76158b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n33g2000cwc.googlegroups.com!not-for-
mail
From: "MarkAren" <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: One crystal with several mixers?
Date: 8 Mar 2007 09:56:08 -0800
Organization: http://groups.google.com
Lines: 23
Message-ID: <1173376568.797812.201330@n33g2000cwc.googlegroups.com>
References: <1173295111.444796.268900@j27g2000cwj.googlegroups.com>
NNTP-Posting-Host: 222.155.189.220
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173376576 8166 127.0.0.1 (8 Mar 2007 17:56:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Mar 2007 17:56:16 +0000 (UTC)
In-Reply-To: <1173295111.444796.268900@j27g2000cwj.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n33g2000cwc.googlegroups.com; posting-host=222.155.189.220;
   posting-account=0vCTfAwAAACvA6pNXnot7Fa7QcUC1A3e
Xref: g2news1.google.com rec.radio.amateur.homebrew:12488
```

Amongst other things it depends on the freq of the LO, the physical distance between the SA605s.

What freq is the LO ?

How far apart are the SA605s ?

-Mark

On Mar 8, 8:18 am, btadeyl...@hotmail.com wrote:
> I'm designing a box that will use four SA605 receiver/mixer chips that
> all need the same crystal reference. Even with all the good
> application notes for the SA605, I'm not sure how to do this. Do I
> build a Colpitts oscillator from transistors, buffer it, and then use
> this output as an "external LO" for the mixers? Or do I connect up
> the crystal to the SA605 oscillator pins as usual and then tap off of
> this for the other chips? Using a function generator as an external
> LO, I get the best results injecting a 300mVpp sine wave, if that is
> useful.
>
> Thank you!

```
From -3958784050677144088
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,UTF8
Path: g2news1.google.com!postnews.google.com!q40g2000cwq.googlegroups.com!not-for-
mail
From: "an old friend" <konstaan@hotmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: just another stalking thread
Date: 8 Mar 2007 11:24:54 -0800
Organization: http://groups.google.com
Lines: 60
Message-ID: <1173381894.008472.199190@q40g2000cwq.googlegroups.com>
References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
   <1172267318.119745.218720@t69g2000cwt.googlegroups.com>
   <45df8787$0$28161$4c368faf@roadrunner.com>
   <1172303818.483077.293990@8g2000cwh.googlegroups.com>
   <45e0d852$0$28102$4c368faf@roadrunner.com>
   <45ebfd39$0$29219$dbd49001@news.wanadoo.nl>
NNTP-Posting-Host: 64.12.116.10
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1173381901 21410 127.0.0.1 (8 Mar 2007 19:25:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Mar 2007 19:25:01 +0000 (UTC)
In-Reply-To: <45ebfd39$0$29219$dbd49001@news.wanadoo.nl>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 5.1; .NET
CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 Turboweb
```

```
[mtc-ta052 8.4.1], HTTP/1.1 cache-mtc-aa06.proxy.aol.com[400C740A] (Traffic-
Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: q40g2000cwq.googlegroups.com; posting-host=64.12.116.10;
   posting-account=NmW08Q0AAACxfd2OLj3W3VkTxVpLYfM9
Xref: g2news1.google.com rec.radio.amateur.homebrew:12489
rec.radio.amateur.misc:33548 rec.radio.amateur.policy:83666

On Mar 5, 6:21=EF=BF=BDam, "R.A Abrahams" <r.aabrah...@wanadoo.nl> wrote:
> Hallo you ll'
> Again a nice discussion =A0and a lot of aspects
> CWing or not =A0or another information code
> From historical point of vieuw =A0CW is the oldest and in my opinion the
> reliablest
> and CW was a boarder =A0between HF and VHF
> caused by brain damage i can concentrate =A0on the recieving dittery dah =
dit
> of the morsecode
> =A0and so became the morsecode a boarder betweem =A0different kinds of
> radioamateurs
> practice cw was a license the use unmanageable power
> practice cw =A0became the roots of the QRPers
> CWers became a elitegroup of amateurs however they did nt understand the
> basic goal
> after cw proof they rapidly forgot the code and have =A0boasting on DX
> and =A0when they met an antenneaproblem they let solve their problem by t=
he
> techinical VHFers
> SO be a "better " amateur =A0however what is better contacting or
> understanding
> 55 and 73 de ruud PA0RAB
>
> "Stefan Wolfe" <ste...@eml.com> schreef in berichtnews:45e0d852$0$28102$4=
c368faf@roadrunner.com...
>
>
>
>
>
> > "terry" <tsanf...@nf.sympatico.ca> wrote in message
> >news:1172303818.483077.293990@8g2000cwh.googlegroups.com...
>
> >> Old codgers still using spark
> >> transmitters and coherer receivers, pounding away in their dimly lit
> >> shacks late at night and boasting about how many countries they have
> >> contacted for 500 milliseconds per contact; and please QSL.
>
> > Can you imagine that? People could communicate around the world simply =
by
> > constructing a simple transmitter salvaged from a Model T ignition coil
> > and a receiver contructed of metal filings in a glass tube between ante=
nna
> > and ground and a battery powered relay.
```

>
> > Amazing. Absolutely amazing.- Hide quoted text -
>
> - Show quoted text -

just another stalking thread
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -8491870749011061990
X-Google-Thread: fc2a5,49f916e344873b4d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!sn-xt-sjc-05!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range rural wireless high speed data options...
Date: Thu, 8 Mar 2007 15:01:22 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12v15e48nrgbbac@corp.supernews.com>
References: <1172947038.139960.11470@t69g2000cwt.googlegroups.com>
<0jvou2tnht2fgbuevpne9sml7dmpvcjtjj@4ax.com>
<1173162121.284707.25420@8g2000cwh.googlegroups.com>
<12us7j6rsf8jh51@corp.supernews.com>
<1173323043.512117.56920@64g2000cwx.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 18
Xref: g2news1.google.com rec.radio.amateur.homebrew:12492

Hi Day,

"Day Brown" <daybrown@hughes.net> wrote in message
news:1173323043.512117.56920@64g2000cwx.googlegroups.com...
> My address is 1984 Kirkendoll rd, Clinton AR, 72031. you have my email
> addy.

That doesn't appear to be nearly so much in the "boonies" as I would have thought. As the crow flies you're only something like 5 miles from I-65, right? I'd predict that within a decade you'll be able to come up with some reasonably high-speed, reasonably cheap solution based on the cell service providers rolling out high-speed data services along the interstate there, if you don't already have the option of getting a cable modem or DSL just as soon if you're willing to pay for the cable back to highway 16.

---Joel

```
From 4366800093704749472
X-Google-Thread: fc2a5,56b575687b3b49c0,start
X-Google-Thread: 108122,56b575687b3b49c0,start
X-Google-Attributes: gidfc2a5,gid108122,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 08 Mar 2007 20:24:48 -0600
From: "George Kavanagh" <gk05XspamX@comcast.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: 8558B YIG Oscillator - Not Field Repairable?
Date: Thu, 8 Mar 2007 21:24:48 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <McudnRaaKJXtWG3YnZ2dnUVZ_qOpnZ2d@comcast.com>
Lines: 14
NNTP-Posting-Host: 24.61.245.200
X-Trace: sv3-H4e4MZ7BW/5ZGp/
PUNTv35b+fOQbf6DfIWS1KesF0LhxPHMosk0GavyT1CdDqHlOPaCj9asglczr33o!
bcZQ7laXugN1OjFle3MKE7SeOac2QvAeiocf3A/fLeS5rCzBVn84z768CmrLbsXvF8KKc+r5wzSI!
OAsNDB8QeTGHsCfaWyrbAGqEp7Je2A==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news1.google.com rec.radio.amateur.homebrew:12493
rec.radio.amateur.equipment:11653
```

Has anyone attempted repair of said YIG Ocsillator sealed assembly ("A6")?
in the HP 8558B Spectrum Analyser? If so, were you successful?

My copy is putting out -32dbm (spec is +15dbm); otherwise seems fine: sweeps OK, freq is right on, etc.

I suspect the 3 transistor amplifier inside the sealed assy.

Any suggestions?

-georgeK KB1HFT

```
From -6909958839049180939
X-Google-Thread: fc2a5,44732bd59d1321aa
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!t69g2000cwt.googlegroups.com!not-for-
mail
From: "OH1GTF" <spam99@suomi24.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PowerSDR, SDRADIO etc - demodulation possible using only I or Q, why?
Date: 8 Mar 2007 21:50:51 -0800
Organization: http://groups.google.com
Lines: 54
Message-ID: <1173419451.414568.206640@t69g2000cwt.googlegroups.com>
References: <1172859586.708320.189630@p10g2000cwp.googlegroups.com>
   <1172910450.301701.122550@s48g2000cws.googlegroups.com>
   <12uoki3f70eke49@corp.supernews.com>
   <1173140206.578002.64060@30g2000cwc.googlegroups.com>
   <12upen8si465885@corp.supernews.com>
NNTP-Posting-Host: 62.73.46.90
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173419466 9600 127.0.0.1 (9 Mar 2007 05:51:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 9 Mar 2007 05:51:06 +0000 (UTC)
In-Reply-To: <12upen8si465885@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; fi; rv:1.8.1.2) Gecko/
20070219 Firefox/2.0.0.2,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: t69g2000cwt.googlegroups.com; posting-host=62.73.46.90;
   posting-account=KeA5zw0AAAA9p-GA2UD_ncK8cLQmQtqO
Xref: g2news1.google.com rec.radio.amateur.homebrew:12494
```

Huge thanks Glenn, Joel, Paul and Len.

I had to read your mails 'few' times before I fully understood the content. This subject acutally isn't anything you read at coffee break at work within 5 minutes, hi!

I'm gonna stick of course with the IQ instead of using only other component since I've build and IQ transceiver :) I was just pretty amazed that I could have clear FM or AM audio out just by using one component, but immediately notice the 6db change. But now, it's clear to me, there's nothing special in that. The same amplitude can be found in I and Q and OF COURSE we can demodulate AM or FM without the second component.

Actually, Joel, your answers were pretty good for me, even with the "more advanced" math, like Len said, hi. At first glance, I couldn't get anything in to my head, but reading it few times more started to reveal the math behind the whole thing. I'm really looking forward to get more into the math and understanding the IQ demodulation and modulation.

I had very good succestions even for the hardware stuff, but I think I'll stick with the IQ rx/tx I just made. Actually, those HW ideas also gave new aspects of thinking the way how IQ signals can be demodulated in software. I also liked the C-QUAM information. Really nice, because I didn't knew about the whole C-QUAM -thing.

Wildest dream would be of course, FULLY understand the demodulation of any common modes and write my own software, but I've just done some non-FFT releated stuff with Visual Basic, so not so promising :)

I want to thank everyone for the comments and advices, I had more than I've read so far from the articles laying around the internet. Always when ppl are talking to ppl, they communicate, but reading from the books, that's just trying to figure out what a heck has been in the mind of the writer. Ok, depends on the article, some might write in a more common sense.

Just on question more: If I really want to dig into the math thing of IQ modulation/demodulation, is there any articles you would like to succest? I mean, I've never been that good in high tech math, so at least the beginning of the article would have to be understood with 'basic' math.

73 de Janne, OH1GTF

PS. Yesterday my friend OH1CO brought RFspace's SDR-IQ transceiver to the club (club evening) which he just bought. At our city club, we have only 80m dipole hanging on the trees, but that didn't bother us, we could copy wery interesting station on all bands at HF, all over the world. I'm a 'bit' excited! I also received PSK station all over the world @ 80 meters, with just few meters of wire in my shack (powersdr and digipan).

From -1330728889579784572
X-Google-Thread: fc2a5,21d48ccc4e127527
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n33g2000cwc.googlegroups.com!not-for-mail
From: "mister35mm" <mister35mm@yahoo.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Paraset builders?
Date: 9 Mar 2007 03:11:23 -0800

Organization: http://groups.google.com
Lines: 21
Message-ID: <1173438683.124835.263040@n33g2000cwc.googlegroups.com>
References: <FQ_Hh.7955$re4.7643@newssvr12.news.prodigy.net>
NNTP-Posting-Host: 81.174.187.191
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1173438699 26644 127.0.0.1 (9 Mar 2007 11:11:39 GMT)
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NNTP-Posting-Date: Fri, 9 Mar 2007 11:11:39 +0000 (UTC)
In-Reply-To: <FQ_Hh.7955$re4.7643@newssvr12.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; SU 2.011; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n33g2000cwc.googlegroups.com; posting-host=81.174.187.191;
   posting-account=CSEu3Q0AAADiuUUA3L3fZwUmzIFsNTF6
Xref: g2news1.google.com rec.radio.amateur.homebrew:12495

On Mar 8, 9:01 pm, B...@anywhere.fuzz wrote:
> How many of you have built or building a Paraset WWII Spy radio?

I must admit I'd love one to own, maybe a kit version could be made up? same size and similar controls but made on a PCB to make assembly easier? I have only seen one tranciever ket recently, valve based and that was using a single all glass valve and had space inside for 10? PP3 9v batteries.

I think a 'modern' Parset 'kit' with a mixture of new and old components would sell quite well. I am sure it could be designed to run on 12V and use some clever circuitry to produce the required high tension voltages. Maybe a double sideband version for the no-code'rs too.

regards

Stephen Walters
G7VFY
07956-544202

From -8829282902762789639
X-Google-Thread: fc2a5,3c5be9ea6c76158b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.glorb.com!cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny04.POSTED!0da99462!not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1173295111.444796.268900@j27g2000cwj.googlegroups.com>
<1173376568.797812.201330@n33g2000cwc.googlegroups.com>

Subject: Re: One crystal with several mixers?
Lines: 48
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <h3cIh.1777$jf.1507@trndny04>
Date: Fri, 09 Mar 2007 12:04:29 GMT
NNTP-Posting-Host: 68.236.45.224
X-Complaints-To: abuse@verizon.net
X-Trace: trndny04 1173441869 68.236.45.224 (Fri, 09 Mar 2007 07:04:29 EST)
NNTP-Posting-Date: Fri, 09 Mar 2007 07:04:29 EST
Xref: g2news1.google.com rec.radio.amateur.homebrew:12496

I think one of the biggest problems you might encounter is intermodulation between mixers.

If a strong signal is present on any of the mixers, it will intermodulate with the oscillator due to imperfect balance in the mixer. If these intermodulation components get into the other mixer LO ports, it might cause spurious responses.

Try to build some port-to-port isolation into the LO splitter, either resistively (if you have power to spare), with a magnetic or LC 'hybrid' of some sort, or vith individual buffer amps for each stage. If you choose the latter, common base amps would be a good choice as they have very high reverse isolation. Avoid ampliifiers with feedback, as feedback usually ruins reverse isolation.

Joe
W3JDR

"MarkAren" <markaren10@yahoo.com> wrote in message
news:1173376568.797812.201330@n33g2000cwc.googlegroups.com...
> Amongst other things it depends on the freq of the LO, the physical
> distance between the SA605s.
>
> What freq is the LO ?
>
> How far apart are the SA605s ?
>
> -Mark
>
> On Mar 8, 8:18 am, btadeyl...@hotmail.com wrote:
>> I'm designing a box that will use four SA605 receiver/mixer chips that
>> all need the same crystal reference. Even with all the good
>> application notes for the SA605, I'm not sure how to do this. Do I
>> build a Colpitts oscillator from transistors, buffer it, and then use
>> this output as an "external LO" for the mixers? Or do I connect up

```
>> the crystal to the SA605 oscillator pins as usual and then tap off of
>> this for the other chips? Using a function generator as an external
>> LO, I get the best results injecting a 300mVpp sine wave, if that is
>> useful.
>>
>> Thank you!
>
>
```

```
From -3791001246987252087
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X-Google-Thread: fc2a5,ef5406dd4f13fbd5
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!64g2000cwx.googlegroups.com!not-for-
mail
From: "Telstar Electronics" <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor Module...
Date: 9 Mar 2007 04:42:14 -0800
Organization: http://groups.google.com
Lines: 13
Message-ID: <1173444133.972521.326640@64g2000cwx.googlegroups.com>
References: <1172418983.391796.29810@j27g2000cwj.googlegroups.com>
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   <1172486782.793119.168670@j27g2000cwj.googlegroups.com>
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   <m1ldu2l902p2enjp5eigu1rov0iovu2hjh@4ax.com>
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X-Trace: posting.google.com 1173444140 8450 127.0.0.1 (9 Mar 2007 12:42:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 9 Mar 2007 12:42:20 +0000 (UTC)
In-Reply-To: <1173205021.710286.22050@n33g2000cwc.googlegroups.com>
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 64g2000cwx.googlegroups.com; posting-host=216.203.30.4;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news1.google.com rec.radio.cb:34598 rec.radio.amateur.homebrew:12497
```

> Well... while James mulls that over... the PCB development continues.
> The board is about 50% complete at this time. I expect to be done by
> this weekend... and have the first custom boards within two weeks. I
> will post a pic or two on the net as soon as I have a few built up.

The board layout is now 90% complete. This project is certainly ahead of schedule at this point. If things keep going this well... the product release could be before the target Sept07 date.

Follow the development of the VoiceMax Speech Processor at:
http://www.telstar-electronics.com/default_files/NewProductDevelopment.htm

From 5418559975690644356
X-Google-Thread: fc2a5,d375d392c1ee922a,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.glorb.com!news.tele.dk!feed118.news.tele.dk!news.tele.dk!small.news.tele.dk!sn-xt-sjc-02!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: 813 modulators
Date: Fri, 09 Mar 2007 07:02:33 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12v2mn9md9b6595@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 17
Xref: g2news1.google.com rec.radio.amateur.homebrew:12498

My Ranger driven 813 modulator is working very well but now I want to move on to a self-contained mod.

I have ordered a 15 W solid state amp but need some help picking a transformer for between it's 4 ohm output and the 813's running as triodes.

I am sure this has been done many times so perhaps someone can save me the pain of trying to determine the impedance needed for the output of the trans.

Thanks,

JACK K9ACT

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm

Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

From 9186126470243234347
X-Google-Thread: fc2a5,3c5be9ea6c76158b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!n33g2000cwc.googlegroups.com!not-for-mail
From: btadeyl001@hotmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: One crystal with several mixers?
Date: 9 Mar 2007 05:03:12 -0800
Organization: http://groups.google.com
Lines: 83
Message-ID: <1173445392.506601.210070@n33g2000cwc.googlegroups.com>
References: <1173295111.444796.268900@j27g2000cwj.googlegroups.com>
   <1173376568.797812.201330@n33g2000cwc.googlegroups.com>
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NNTP-Posting-Date: Fri, 9 Mar 2007 13:03:34 +0000 (UTC)
In-Reply-To: <h3cIh.1777$jf.1507@trndny04>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.0; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n33g2000cwc.googlegroups.com; posting-host=151.200.90.2;
   posting-account=nuh58A0AAABnj1rOxDMxQSzcUkS-Ga_I
Xref: g2news1.google.com rec.radio.amateur.homebrew:12499

Thanks, Joe. Mark, The frequency of the LO is 13.105MHz. The mixers are all closer together, on the same board.

Here is another response I got, for general information:

"That's what I'd recommend... a Colpitts or perhaps a Vacker, followed by a robust buffering scheme, with some isolation (resistive 3 dB pads, and/or separate second-stage buffers) to drive the individual mixer chips. Less chance of interaction between the SA605s that way, and (from what I've heard) you'll probably get a cleaner LO signal that way.

Design and built the oscillator for best performance. That usually means not driving the crystal too hard (don't heat it up or overstress it), and not loading the oscillator itself too heavily (doing so will lower the Q and reduce the stability). The designs I've seen with the cleanest behavior have a fairly gentle drive, and then use a JFET or MOSFET as a first-stage buffer so that the tank circuit has negligible loading on it. Then, add a second-stage buffer (2N2222 or 2N3904 or something like that) and at least one stage of low-pass filtering, so that you get a nice clean sine-wave out. (or, if you're driving a switch-mode mixer, drive a squaring circuit of some sort). Then, figure out how much voltage and drive capability your signal has, and set up resistive-divider networks which will attenuate it down to the desired level to drive your mixers, and let the mixer "look back" into a 50-ohm source at all frequencies - this helps reduce spurs. [This is pretty important in diode-ring mixers - I'm not sure how critical it is with Gilbert-cell mixers such as the SA602] Of course, you could always use another SA602 just as an oscillator, and then tap off / buffer / divide its output to feed the other SA602s. That would still give you good isolation between the SA602s and might be simpler (but perhaps more expensive)."

On Mar 9, 7:04 am, "W3JDR" <j...@roccis.com> wrote:
> I think one of the biggest problems you might encounter is intermodulation
> between mixers.
>
> If a strong signal is present on any of the mixers, it will intermodulate
> with the oscillator due to imperfect balance in the mixer. If these
> intermodulation components get into the other mixer LO ports, it might cause
> spurious responses.
>
> Try to build some port-to-port isolation into the LO splitter, either
> resistively (if you have power to spare), with a magnetic or LC 'hybrid' of
> some sort, or vith individual buffer amps for each stage. If you choose the
> latter, common base amps would be a good choice as they have very high
> reverse isolation. Avoid ampliiifiers with feedback, as feedback usually
> ruins reverse isolation.
>
> Joe
> W3JDR
>
> "MarkAren" <markare...@yahoo.com> wrote in message
>
> news:1173376568.797812.201330@n33g2000cwc.googlegroups.com...
>
>
>
> > Amongst other things it depends on the freq of the LO, the physical
> > distance between the SA605s.
>
> > What freq is the LO ?
>
> > How far apart are the SA605s ?
>
> > -Mark
>
> > On Mar 8, 8:18 am, btadeyl...@hotmail.com wrote:
> >> I'm designing a box that will use four SA605 receiver/mixer chips that
> >> all need the same crystal reference. Even with all the good
> >> application notes for the SA605, I'm not sure how to do this. Do I
> >> build a Colpitts oscillator from transistors, buffer it, and then use

> >> this output as an "external LO" for the mixers? Or do I connect up
> >> the crystal to the SA605 oscillator pins as usual and then tap off of
> >> this for the other chips? Using a function generator as an external
> >> LO, I get the best results injecting a 300mVpp sine wave, if that is
> >> useful.
>
> >> Thank you!- Hide quoted text -
>
> - Show quoted text -

```
From 7627265325329409910
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!postnews.google.com!h3g2000cwc.googlegroups.com!not-for-
mail
From: "Andy the Perv Timberlake" <andy_theperv_timberlake@yahoo.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: ... _ .._. .._   _ _ .._  _   _ _ ._ ._. _ _._  .._  .  .  ._.
Date: 9 Mar 2007 05:26:08 -0800
Organization: http://groups.google.com
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References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
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NNTP-Posting-Date: Fri, 9 Mar 2007 13:26:15 +0000 (UTC)
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5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h3g2000cwc.googlegroups.com; posting-host=4.185.222.191;
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Xref: g2news1.google.com rec.radio.amateur.homebrew:12500
rec.radio.amateur.misc:33608 rec.radio.amateur.policy:83827
```

On Mar 8, 2:24 pm, "an old friend" <konst...@hotmail.com> wrote:

> On Mar 5, 6:21?am, "R.A Abrahams" <r.aabrah...@wanadoo.nl> wrote:
>
>
>
>
>
> > Hallo you ll'
> > Again a nice discussion ?and a lot of aspects
> > CWing or not ?or another information code
> > From historical point of vieuw ?CW is the oldest and in my opinion the
> > reliablest
> > and CW was a boarder ?between HF and VHF
> > caused by brain damage i can concentrate ?on the recieving dittery dah dit
> > of the morsecode
> > ?and so became the morsecode a boarder betweem ?different kinds of
> > radioamateurs
> > practice cw was a license the use unmanageable power
> > practice cw ?became the roots of the QRPers
> > CWers became a elitegroup of amateurs however they did nt understand the
> > basic goal
> > after cw proof they rapidly forgot the code and have ?boasting on DX
> > and ?when they met an antenneaproblem they let solve their problem by the
> > techinical VHFers
> > SO be a "better " amateur ?however what is better contacting or
> > understanding
> > 55 and 73 de ruud PA0RAB
>
> > "Stefan Wolfe" <ste...@eml.com> schreef in
berichtnews:45e0d852$0$28102$4c368faf@roadrunner.com...
>
> > > "terry" <tsanf...@nf.sympatico.ca> wrote in message
> > >news:1172303818.483077.293990@8g2000cwh.googlegroups.com...
>
> > >> Old codgers still using spark
> > >> transmitters and coherer receivers, pounding away in their dimly lit
> > >> shacks late at night and boasting about how many countries they have
> > >> contacted for 500 milliseconds per contact; and please QSL.
>
> > > Can you imagine that? People could communicate around the world simply by
> > > constructing a simple transmitter salvaged from a Model T ignition coil
> > > and a receiver contructed of metal filings in a glass tube between antenna
> > > and ground and a battery powered relay.
>
> > > Amazing. Absolutely amazing.- Hide quoted text -
>
> > - Show quoted text -
>
> just another stalking thread

... _ .._. .._

From 2420643805092214677
X-Google-Thread: fc2a5,44732bd59d1321aa
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news3.google.com!news.glorb.com!news.litech.org!not-for-mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PowerSDR, SDRADIO etc - demodulation possible using only I or Q, why?
Date: Fri, 9 Mar 2007 13:48:12 +0000 (UTC)
Organization: Me?
Lines: 21
Sender: mikea@mikea.ath.cx
Message-ID: <esrois$fvh$4@puck.litech.org>
References: <1172859586.708320.189630@p10g2000cwp.googlegroups.com>
<1172910450.301701.122550@s48g2000cws.googlegroups.com>
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<1173140206.578002.64060@30g2000cwc.googlegroups.com>
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NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1173448092 16369 68.15.203.64 (9 Mar 2007 13:48:12 GMT)
X-Complaints-To: usenet@litech.org
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X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news1.google.com rec.radio.amateur.homebrew:12501

On 8 Mar 2007 21:50:51 -0800, OH1GTF <spam99@suomi24.fi> wrote in
<1173419451.414568.206640@t69g2000cwt.googlegroups.com>:

> 73 de Janne, OH1GTF

> PS. Yesterday my friend OH1CO brought RFspace's SDR-IQ transceiver to
> the club (club evening) which he just bought. At our city club, we
> have only 80m dipole hanging on the trees, but that didn't bother us,
> we could copy wery interesting station on all bands at HF, all over
> the world. I'm a 'bit' excited! I also received PSK station all over
> the world @ 80 meters, with just few meters of wire in my shack
> (powersdr and digipan).

Janne,

I'm about to order an SDR-IQ board. I thought it was just a receiver.
If it's a transceiver, that's a big bonus.

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

```
From -5657454043042300575
X-Google-Thread: 106d41,e304b13f1d339edf
X-Google-Thread: fc2a5,ef5406dd4f13fbd5
X-Google-Attributes: gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!913ebda8!not-for-mail
From: james <george@washington.edu>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew
Subject: Re: VoiceMax Speech Processor Module...
Reply-To: beerkeg@budu.edu
Message-ID: <dmt2v21kpl76nfle0vu3l1tls1bood9vpc@4ax.com>
References: <60c8u2hq13gqpqb65lbd6gloh5hlsamp7b@4ax.com>
<1172610853.838313.57150@z35g2000cwz.googlegroups.com>
<kgbbu2lr8met5tu56bomnscnltes9d8hh2@4ax.com>
<20070228122542.789$Se@newsreader.com>
<1172688931.272244.316320@q2g2000cwa.googlegroups.com>
<m1ldu2l902p2enjp5eigu1rov0iovu2hjh@4ax.com>
<1172785175.546043.212390@31g2000cwt.googlegroups.com>
<1173205021.710286.22050@n33g2000cwc.googlegroups.com>
<1173444133.972521.326640@64g2000cwx.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 26
Date: Fri, 09 Mar 2007 15:06:35 GMT
NNTP-Posting-Host: 72.91.132.185
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1173452795 72.91.132.185 (Fri, 09 Mar
2007 07:06:35 PST)
NNTP-Posting-Date: Fri, 09 Mar 2007 07:06:35 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news1.google.com rec.radio.cb:34603 rec.radio.amateur.homebrew:12502

On 9 Mar 2007 04:42:14 -0800, "Telstar Electronics"
<briangriffey@sbcglobal.net> wrote:

>+++> Well... while James mulls that over... the PCB development continues.
>+++> The board is about 50% complete at this time. I expect to be done by
>+++> this weekend... and have the first custom boards within two weeks. I
>+++> will post a pic or two on the net as soon as I have a few built up.
>+++
>+++The board layout is now 90% complete. This project is certainly ahead
>+++of schedule at this point. If things keep going this well... the
>+++product release could be before the target Sept07 date.
>+++
>+++Follow the development of the VoiceMax Speech Processor at:
>+++http://www.telstar-electronics.com/default_files/NewProductDevelopment.htm
>+++
***********
```

Realy bad marketing strategy.
Very poor product survey.

I hope that you are not contemplating filling any patents on this product? With this announcement anything filed after March 9th are no longer valid. I also hope that any copyrights and products names have properly been filed. Ot herwise you are out.

james

```
From 1845859223615017995
X-Google-Thread: fc2a5,56b575687b3b49c0
X-Google-Thread: 108122,56b575687b3b49c0
X-Google-Attributes: gidfc2a5,gid108122,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!out03b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-
xfer.nntp.sonic.net!posts.news.sonic.net!nnrp0.nntp.sonic.net!not-for-mail
From: "Steve" <zarco@sonic.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.equipment
References: <McudnRaaKJXtWG3YnZ2dnUVZ_qOpnZ2d@comcast.com>
Subject: Re: 8558B YIG Oscillator - Not Field Repairable?
Date: Fri, 9 Mar 2007 07:20:54 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2670
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2670
X-RFC2646: Format=Flowed; Response
Lines: 24
Message-ID: <45f17b57$0$27255$742ec2ed@news.sonic.net>
Organization: Sonic.Net
NNTP-Posting-Date: 09 Mar 2007 15:20:55 GMT
NNTP-Posting-Host: 0ae666f2.news.sonic.net
X-Trace:
DXC=L9hhPXM4QneV0]<gF>H<=cm4K\QM1CV^`1OYf0H`?;Xa>ZL\e0m\<Qo<Qc7RIG=<OhU:1`QD>ND0aQ
Hm`IMWF<?n
X-Complaints-To: abuse@sonic.net
Xref: g2news1.google.com rec.radio.amateur.homebrew:12503
rec.radio.amateur.equipment:11656
```

These are sealed, and even if you could open them,
you don't have the tools or parts to repair. Check
the power supplies and contacts on the bias board,
but this is a common failure mode (blown power amp).

Steve

"George Kavanagh" <gk05XspamX@comcast.net> wrote in message news:McudnRaaKJXtWG3YnZ2dnUVZ_qOpnZ2d@comcast.com...

> Has anyone attempted repair of said YIG Ocsillator sealed assembly ("A6")?
> in the HP 8558B Spectrum Analyser? If so, were you successful?

```
>
> My copy is putting out -32dbm (spec is +15dbm); otherwise seems fine:
> sweeps OK, freq is right on, etc.
>
> I suspect the 3 transistor amplifier inside the sealed assy.
>
> Any suggestions?
>
> -georgeK  KB1HFT
>
>
>
```

```
From 2492673509269057598
X-Google-Thread: 10d85e,cfa01e565e46a6bb
X-Google-Thread: 10cf58,cfa01e565e46a6bb
X-Google-Thread: fc2a5,cfa01e565e46a6bb
X-Google-Thread: fcc6e,cfa01e565e46a6bb
X-Google-Thread: 1021cd,cfa01e565e46a6bb
X-Google-Attributes: gid10d85e,gid10cf58,gidfc2a5,gidfcc6e,gid1021cd,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.sysmatrix.net!
news.sysmatrix.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 22 Feb 2007 08:17:30 -0600
From: NoSpam@daqarta.com (Bob Masta)
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.anten
na,comp.sys.ibm.pc.soundcard.tech
Subject: Re: Good sound card & software ?
Date: Thu, 22 Feb 2007 14:19:22 GMT
Organization: Interstellar Research
Reply-To: NoSpam@daqarta.com
Message-ID: <45dd9e1d.2492124@news.sysmatrix.net>
References: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
<45d9ad82.1201022@news.sysmatrix.net> <98rjt2tmesscthi5jk8s8knorfavn7ld3g@4ax.com>
<45dafa62.615953@news.sysmatrix.net> <mbeqt2tfvb1ea3pgjtle43ccjud2u0v94t@4ax.com>
X-Newsreader: Forte Free Agent 1.11/32.235
Lines: 151
NNTP-Posting-Host: 66.2.148.46
X-Trace: sv3-NpF9oEhF21+0u/b0b7uLG99SCi+A3zggVsHWdmkVDpTqpzrjtNzaD79GQ1/
RyJ5WIGeufG3h/84YJyN!
G19elC8raji04gdYPc81lebNqsjd+vGj8Vw91ahKMne+im16FRkOXHwsC5i5avEn/F1vQrRc3km1!
nfai6IweiCQ4sKSN
X-Complaints-To: abuse@sysmatrix.net
X-DMCA-Complaints-To: abuse@sysmatrix.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
```

Xref: g2news2.google.com rec.audio.opinion:62097 rec.audio.pro:93505
rec.radio.amateur.homebrew:9135 rec.radio.amateur.antenna:25526
comp.sys.ibm.pc.soundcard.tech:358

On Wed, 21 Feb 2007 23:47:39 -0800, Richard Clark <kb7qhc@comcast.net>
wrote:

>On Tue, 20 Feb 2007 14:04:19 GMT, NoSpam@daqarta.com (Bob Masta)
>wrote:
>
>>On Mon, 19 Feb 2007 10:34:50 -0800, Richard Clark <kb7qhc@comcast.net>
>>wrote:
>>
>>>On Mon, 19 Feb 2007 14:06:30 GMT, NoSpam@daqarta.com (Bob Masta)
>>>wrote:
>>>
>>>>FFT size is 1024 points, so you won't be able to use
>>>>this for tuning your guitar, if that's what you had in mind.
>>>
>>>Hi Bob,
>>>
>>>Why not? 1024 points (bins) has enough resolution to shake out every
>>>note on a Hawaiian slide guitar. The only care is selecting the
>>>sampling rate and most FFT packages should be able to resolve
>>>exceedingly fine.
>>>
>>
>>The problem is that the line resolution of an FFT is the sample
>>rate divided by the number of time points. So with 44100 Hz
>>sample rate and 1024 points you get a bit over 43 Hz per line.
>>So the first non-DC spectral line would be 43 Hz, which is about
>>a low F on a bass guitar, and the very next line would be the F
>>an octave above that... you'd miss an entire octave!
>
>Hi Bob,
>
>What you describe here, and that which followed, is a problem of
>either hardware (I design my own) or a perception of Fourier
>techniques that is constrained to common applications.
>
>The trick is one that is encountered quite commonly with RF designers
>(and those Hams that actually practice the craft instead of being
>appliance operators) - it is called mixing. Or to describe it with
>more precision (as an audio crowd has a restricted meaning for the
>term "mixing") heterodyning or modulating/demodulating. Simply put,
>the data channel is pre-processed by multiplying it with a reference
>cosine before being passed onto the FFT. (Although this sounds like
>windowing, it is not.) Of course, the output of the FFT has to have
>its units recast. In the old days, this was called "zooming" or an
>arbitrary view of a single frequency encompassed by a span of far
>higher resolution than that obtained from a simple transform. I would
>quickly point out that the simple transform is still performed (same
>bin interval, same bin count), but it has been augmented.

>
>This technique, plus a waterfall display, is useful in tracing down
>mechanical problems in journals, bearing races (with bearing run-out
>or ball defect) and bad gear meshes. It also relates to Hank's desire
>to test individual construction components in the guitar as all of
>these problems relate to a subtle data inflection that can be
>destructive in machinery, or discordant in music. The zoom feature
>can reveal these defects with remarkable resolution.   As I said, the
>FFT as originally described can differentiate every note of an
>Hawaiian slide guitar. Perhaps I should have added the proviso:
>provided you use a synchronized tracking generator for mixing.
>However, given this can be done digitally (no one needs a hardware
>oscillator), no change in hardware is necessary. All the data that is
>needed is already there.
>
>>   www.daqarta.com
>by the way, this seems to be a dead link. (later) I take that back,
>but it took a lot of retries over the span of an hour.
>
>Further, it seems you have a lot of what I mention above covered in
>your pages, by parts, but none of them encompass the whole of
>"zooming."
>
>And for your page on windowing, drop me an email if you would like to
>see some pascal routines embodying some very tight windows. These
>came from my time with HP whose chief engineer soon after departed for
>a chair at some eastern university.
>
>73's
>Richard Clark, KB7QHC

Richard:

Thanks for your detailed post. I am aware of the "zoom"
approach, but have not implemented it yet. The cosine
multiplication down to baseband is the easy part; the part
that has put me off is the pesky decimating filter.

For others reading this, the basic idea of the zoom FFT is that
if you want to "zoom in on" some frequency region at
higher resolution, you multiply the incoming signal by the
center of the desired range. From that old high school
trig formula for the product of sinusoids, you get a bunch of
sum and difference components. So the center of the
target band ends up at 0 Hz since you multiplied it by a
sinusoid at the center frequency, and all the rest of
the original spectrum is now spreading out on either
side of 0. Now, if you low-pass filter this mess you can
re-sample it at a much lower frequency. The filter has
to be set so there is nothing of significance above half
of the new sample rate, just as for the orignal ADC (or
you get aliasing errors).

Then you take an FFT of the same size (1024 or whatever) samples, but at the new lower sample rate. If the new rate is 1/100 of the original, the resolution of the spectrum is improved x100. Another way to think about this is that if you only wanted to zoom in on the low end of the spectrum, you wouldn't need to do the cosine multiply, filter, or resampling... you could just reduce the base sample rate to 1/100 (if your sound card permitted, and had its anti-alias filters set for that) and get exactly the same results.

Note that this gives exactly the same resolution as an FFT that is x100 larger, where you only get to see 1/100 of the whole spectrum. Also note that an x100 increase in resolution takes x100 increase in sample time, so you must insure that the signal is stable over that interval or you will get spectral peak smearing... there is no free lunch here! This is no problem for Richard's examples of bearings and gear meshes, but I'd expect troubles with most music since it is so dynamic.

Anyway, back to my original lament: The low-pass filtering and resampling would be quite inefficient if done by conventional approaches, but there are apparently some elegant solutions that do both functions in one block, reusing it over and over to get successive halvings of the sample rate. My problem is that I have only seen this described in theoretical terms with simple block diagrams, leaving the exact coefficients, etc, as "an excercise for the reader". Searching the Web I find that others are apparently as left out in the cold by this as I am, and there is no example code, hints, or tips to be found.

So, until this particular reader either gets struck by a flash of insight or takes the time to read up on this enough to get a whole lot smarter, the zoom FFT is on a back burner.

(Richard, I'll Email you about those window routines...
many thanks for the offer!)

Best regards,

Bob Masta

DAQARTA
Data AcQuisition And Real-Time Analysis
www.daqarta.com
Scope, Spectrum, Spectrogram, Signal Generator
Science with your sound card!

From -263500769767556351
X-Google-Thread: 10c2ee,120657984dd7625c

X-Google-Thread: fc8b1,120657984dd7625c
X-Google-Thread: fc2a5,120657984dd7625c
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!bloom-beacon.mit.edu!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: Hammarlund HX-50 choke question.
Date: 22 Feb 2007 09:29:46 -0500
Organization: Former users of Netcom shell (1989-2000)
Lines: 22
Message-ID: <erk9cq$1p5$1@panix2.panix.com>
References: <PerCh.3042$vu2.1488@trnddc04> <HrSdneYrqaqTMkHYnZ2dnUVZ_uqvnZ2d@rcn.net> <eribtd$mad$1@panix2.panix.com> <pbadnWXSnuvZI0HYnZ2dnUVZ_hKdnZ2d@rcn.net>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1172154586 28461 166.84.1.2 (22 Feb 2007 14:29:46 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 22 Feb 2007 14:29:46 +0000 (UTC)
Xref: g2news2.google.com rec.antiques.radio+phono:47105 rec.radio.amateur.boatanchors:7624 rec.radio.amateur.homebrew:9136

Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote:
>
>For a swinging choke to work, the power supply must be choke input. It
>is necessary that the choke see the massive AC ripple that comes out of
>the rectifier. No ripple, no regulating effect from the reactance.

Okay, wait a second.

You're talking about a configuration where the choke is seeing both AC and DC on it, and both are required for regulation. The impressed AC is modulated by the DC, correct? As the DC voltage changes, the inductance changes, so the reactive part of the impedance changes and the AC voltage changes. Do I have that right?

I was thinking about a configuration where the choke sees entirely AC, which would be a different thing altogether, like you see in arc lamp power supplies. I thought they worked the same way but it's clear they don't.
--scott

--
"C'est un Nagra. C'est suisse, et tres, tres precis."

From -3281329930041680619
X-Google-Thread: fc2a5,7b436269bdabde56,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m58g2000cwm.googlegroups.com!not-for-

```
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: EZNEC Question
Date: 22 Feb 2007 09:45:20 -0800
Organization: http://groups.google.com
Lines: 22
Message-ID: <1172166319.428241.83830@m58g2000cwm.googlegroups.com>
NNTP-Posting-Host: 66.19.117.182
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172166335 12704 127.0.0.1 (22 Feb 2007 17:45:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 22 Feb 2007 17:45:35 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m58g2000cwm.googlegroups.com; posting-host=66.19.117.182;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:9137
```

Andy writes:

I've been using Lewallen's EZNEC for about 10 years on my laptop whose operating system is Windows 98SE with no problems..

I just got a new computer with Windows XP Home Edition. EZNEC installs fine, and several of the features work, but when I try to do a Frequency Sweep , the program tells me I need about 2G of memory and that I only have about 1G available.....

My new system has 512 of ram, so I know the problem must be in how it is partitioned (extended vs conventional)...

So, can anyone tell me how this can be fixed without taking the chance of buggering up the XP system that will mess up any other programs ?

Thanks for your advice.

Andy W4OAH

```
From 4181317821247974914
X-Google-Thread: fc2a5,7b436269bdabde56
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
```

NNTP-Posting-Date: Thu, 22 Feb 2007 14:09:32 -0600
From: "John" <noaddress@noaddress.invalid>
Newsgroups: rec.radio.amateur.homebrew
References: <1172166319.428241.83830@m58g2000cwm.googlegroups.com>
Subject: Re: EZNEC Question
Date: Thu, 22 Feb 2007 15:09:44 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <4YudnTksw-bhZUDYnZ2dnUVZ_veinZ2d@comcast.com>
Lines: 37
NNTP-Posting-Host: 69.136.76.249
X-Trace: sv3-ZYff9T2qIAk5ZeK/3aY5qUoaX876gpMspNlqsJ4mEEt6/
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qv3lDuCazVK5yPaTy2njyMZu7KRwZnr4WlNzqPcGAS2T+1Og89OcHgkcL/UkyHnoMHwHxGH+aR6h!ek/
c1ykQV/e5sfY=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9138

"AndyS" <andysharpe@juno.com> wrote in message
news:1172166319.428241.83830@m58g2000cwm.googlegroups.com...
> Andy writes:
>
> I've been using Lewallen's EZNEC for about 10 years on my
> laptop whose operating system is Windows 98SE with no
> problems..
>
>   I just got a new computer with Windows XP Home Edition.
> EZNEC installs fine, and several of the features work, but when
> I try to do a Frequency Sweep , the program tells me I need about
> 2G of memory and that I only have about 1G available.....
>
>   My new system has 512 of ram, so I know the problem must
> be in how it is partitioned (extended vs conventional)...
>
>   So, can anyone tell me how this can be fixed without taking the
> chance of buggering up the XP system that will mess up any
> other programs ?
>
>   Thanks for your advice.
>
>   Andy W4OAH
>

There is no extended memory in Windows XP. It's a flat
address space. Try running your application in Windows 98

compatability mode. Right click on the .exe file and left
click on properties. Select the compatability tab and
enable compatability mode. Select windows 98 from
the pull down.
Then go to "Help and Support" and do a search on pif
Select the "Create or change a pif" result and read up on
how to assign extended or expanded memory to your
program.

From 4654761571084223577
X-Google-Thread: 10d85e,cfa01e565e46a6bb
X-Google-Thread: 10cf58,cfa01e565e46a6bb
X-Google-Thread: fc2a5,cfa01e565e46a6bb
X-Google-Thread: fcc6e,cfa01e565e46a6bb
X-Google-Thread: 1021cd,cfa01e565e46a6bb
X-Google-Attributes: gid10d85e,gid10cf58,gidfc2a5,gidfcc6e,gid1021cd,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 22 Feb 2007 14:47:04 -0600
From: Richard Clark <kb7qhc@comcast.net>
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,comp.sys.ibm.pc.soundcard.tech
Subject: Re: Good sound card & software ?
Date: Thu, 22 Feb 2007 12:44:56 -0800
Message-ID: <3dvrt2tovf661lg5fd1v1bje52j177rnfb@4ax.com>
References: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
<45d9ad82.1201022@news.sysmatrix.net> <98rjt2tmesscthi5jk8s8knorfavn7ld3g@4ax.com>
<45dafa62.615953@news.sysmatrix.net> <mbeqt2tfvb1ea3pgjtle43ccjud2u0v94t@4ax.com>
<45dd9e1d.2492124@news.sysmatrix.net>
X-Newsreader: Forte Agent 4.0/32.1071
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 33
NNTP-Posting-Host: 67.168.144.41
X-Trace: sv3-6j2UVt/mnD6oRWr8NUwgFY/gNZkO4FjgRE7zBdFpqYPk+MSJyMYrmjQsgBrSeZ/
eZfnB0T9tGUyjZnE!
3EEER3N9L8bmePanW1sAt1SvT1U4qa6ul7OKblXKbzQPICxrynwOfoTGQPmTfqTn2OTxB8ng/IY1!
VM6ayqGLKXw=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news2.google.com rec.audio.opinion:62131 rec.audio.pro:93565
rec.radio.amateur.homebrew:9139 rec.radio.amateur.antenna:25546

comp.sys.ibm.pc.soundcard.tech:359

On Thu, 22 Feb 2007 14:19:22 GMT, NoSpam@daqarta.com (Bob Masta) wrote:

>My problem is
>that I have only seen this described in theoretical terms with
>simple block diagrams, leaving the exact coefficients, etc, as
>"an excercise for the reader".

Hi Bob,

What you want to resource here are the printed materials available (then) from the manufacturers of analyzers in the time span of 1980 to 1986 or so. Those would include Analog Devices or Hewlett Packard, both of which had superb application notes that went to considerable detail. The academic treatments of that era were mostly semester based fluff introducing concepts, and not many at that. Industry was the best source for actually grasping the concepts and implementing the details. Soon after this period saw the introduction of DSP which is a silicon processor equivalent of the IIR or FIR math (resource Texas Instruments from that slightly later era for this discussion).

You did quite well in describing the "zoom" process. This hallmark of the Real Time Audio Analyzers designed by HP 20 years ago was a long time in coming. They had a 16 member design team working with a million lines of Pascal code. It took them 5 years to develop the product in contrast to the HP design cycle of 18 months. They also had to design their own Pascal compiler.

I would recommend for reading those works from the Program Manager Nick Pendergrass (Google: "nick pendergrass" fft).

73's
Richard Clark, KB7QHC

From 3441276081684308687
X-Google-Thread: fc2a5,41242e3cdaf57a6f,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.maxwell.syr.edu!news.litech.org!not-for-mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Dish Network "500" dish with two LNBs
Date: Fri, 23 Feb 2007 00:07:29 +0000 (UTC)
Organization: Me?
Lines: 11
Sender: mikea@mikea.ath.cx
Message-ID: <erlb81$954$1@puck.litech.org>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1172189249 9380 68.15.203.64 (23 Feb 2007 00:07:29 GMT)

```
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Fri, 23 Feb 2007 00:07:29 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:9140

I just got a Dish Network "500" dish with two LNBs, mounting hardware,
and the in-home receiver.

Anyone got anything on converting these to UHF-and-above amateur
operations? Pointers on groups and/or lists? All information and
pointers gratefully accepted.

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin


From -3753058673054050885
X-Google-Thread: fc2a5,41242e3cdaf57a6f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 22 Feb 2007 19:07:44 -0600
Message-ID: <45DE3E5F.8080501@bloomer.net>
Date: Fri, 23 Feb 2007 01:07:43 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To: Mike Andrews <mikea@mikea.ath.cx>
Subject: Re: Dish Network "500" dish with two LNBs
References: <erlb81$954$1@puck.litech.org>
In-Reply-To: <erlb81$954$1@puck.litech.org>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 24
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
Dsho4fPo5ziHFX34KWeHHJoB5Q2CcEHphhZsilZIeD0+XpWsP7YCV4gyrGrrVoypOHLqvQdQOAsmBrU!
wIbbXenHMF7BqBLHDXet+A3YRcHMM40f1Mqd5vharNIitJluDFLB2287YEmBrXkLXw==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9141

http://www.geocities.com/PatBillDavis/10GhzGear.html

Most of us convert them to 10GHz. They are too small to be very useful at UHF. Plus, the DSS Feedhorn is easily modifed to 10 GHz by boring it out to 0.75 inch and add an SMA connector as a probe to excite the waveguide. See above webpage for a short tutorial.

Groups that do 10 GHz construction and contesting:

http://www.nlrs.org
http://www.cvvhf.org

Scott
N0EDV

Mike Andrews wrote:

> I just got a Dish Network "500" dish with two LNBs, mounting hardware,
> and the in-home receiver.
>
> Anyone got anything on converting these to UHF-and-above amateur
> operations? Pointers on groups and/or lists? All information and
> pointers gratefully accepted.
>

From -5428123700150600251
X-Google-Thread: fc2a5,e5c95f770c8ed9f,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.astraweb.com!router1.astraweb.com!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Now that CW is gone there will be more ham to non-ham conflicts.
From: Retard Invasion <goodbye.H@m.radio>
Organization: Good-bye Ham radio.
Followup-To: rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
User-Agent: Xnews/5.04.25
Lines: 8
Message-ID: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
Date: Fri, 23 Feb 2007 01:16:24 GMT
NNTP-Posting-Host: 4.254.225.43
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1172193384 4.254.225.43 (Thu, 22 Feb 2007 17:16:24 PST)
NNTP-Posting-Date: Thu, 22 Feb 2007 17:16:24 PST
Xref: g2news2.google.com rec.radio.amateur.homebrew:9142

The code hating losers were too stupid and lazy to learn and use CW, they're also probably going to be too stupid and lazy to solve TVI and interference problems with their neigbhors. There will be more amateur to amateur and amateur to non-amateur conflicts. Hams will look bad and the FCC will regulate the service more because of all the retards we let have HF privledges.   CQ Breaker, CQ Breaker.

Welcome to CB everybody.

```
From -4635072356747568637
X-Google-Thread: fc2a5,7b436269bdabde56
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v33g2000cwv.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: EZNEC Question
Date: 22 Feb 2007 17:31:49 -0800
Organization: http://groups.google.com
Lines: 65
Message-ID: <1172194309.100990.147690@v33g2000cwv.googlegroups.com>
References: <1172166319.428241.83830@m58g2000cwm.googlegroups.com>
   <4YudnTksw-bhZUDYnZ2dnUVZ_veinZ2d@comcast.com>
NNTP-Posting-Host: 216.126.169.60
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172194314 18380 127.0.0.1 (23 Feb 2007 01:31:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 23 Feb 2007 01:31:54 +0000 (UTC)
In-Reply-To: <4YudnTksw-bhZUDYnZ2dnUVZ_veinZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v33g2000cwv.googlegroups.com; posting-host=216.126.169.60;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:9143
```

On Feb 22, 2:09 pm, "John" <noaddr...@noaddress.invalid> wrote:
> "AndyS" <andysha...@juno.com> wrote in message
>
> news:1172166319.428241.83830@m58g2000cwm.googlegroups.com...
>
>
>
> > Andy writes:
>
> > I've been using Lewallen's EZNEC for about 10 years on my
> > laptop whose operating system is Windows 98SE with no
> > problems..

>
> >   I just got a new computer with Windows XP Home Edition.
> > EZNEC installs fine, and several of the features work, but when
> > I try to do a Frequency Sweep , the program tells me I need about
> > 2G of memory and that I only have about 1G available.....
>
> >   My new system has 512 of ram, so I know the problem must
> > be in how it is partitioned (extended vs conventional)...
>
> >   So, can anyone tell me how this can be fixed without taking the
> > chance of buggering up the XP system that will mess up any
> > other programs ?
>
> >   Thanks for your advice.
>
> >   Andy W4OAH
>
> There is no extended memory in Windows XP. It's a flat
> address space. Try running your application in Windows 98
> compatability mode. Right click on the .exe file and left
> click on properties. Select the compatability tab and
> enable compatability mode. Select windows 98 from
> the pull down.
> Then go to "Help and Support" and do a search on pif
> Select the "Create or change a pif" result and read up on
> how to assign extended or expanded memory to your
> program.- Hide quoted text -
>
> - Show quoted text -

Andy writes:
Thanks John. You got me on the right track. Here is what I did:

1) clicked on the EZNEC shortcut icon and then on Properties and Compatibility.
2) Set Compatibility to Windows 98
3) Used Windows Explorer to locate EZMAIN and right clicked , then on Memory
4) Set Extended Memory to Auto and checked HMS box (I got this from the EZNEC manual
when setting it up for Windows NT)
5) Then I closed stuff out and ran EZNEC with no problems so far.....

I couldn't find any PIF file corresponding to EZNEC, but apparently the other stuff was good
enough...

Thanks again for getting me started,

Andy   W4OAH

From 8464491662104964628
X-Google-Thread: fc2a5,8259303a2f69f348
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews4.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 813's as Modulators
References: <12toem5go4rou40@corp.supernews.com>
<1172151717.472484.205960@q2g2000cwa.googlegroups.com>
In-Reply-To: <1172151717.472484.205960@q2g2000cwa.googlegroups.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 47
Message-ID: <1trDh.21783$6a.18645@bignews4.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
npbhgpngjbkmjfegdbdpiflmbcekedmfhojhikkbagflhcbobohjlafmdlignflnomkjjhfdghcoccpdgg
pkldhnmfidnijobkjhhfnckmifmbkfpnaffidobadcejjolhaafcpibbgjjgghjongdjiejjbilnml
NNTP-Posting-Date: Thu, 22 Feb 2007 20:30:37 EST
Organization: BellSouth Internet Service
Date: Thu, 22 Feb 2007 20:35:48 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:9144

Tim Shoppa wrote:
> On Feb 21, 7:27 am, Jack Schmidling <a...@mc.net> wrote:
>> My new (first one in 50 years) is an 8000 modulated by a pair of 813's
>> running as triodes. The RF deck and Pw supply are up and running and I
>> am working on the modulator now.
>>
>> My plans are to drive it with the Ranger and eventually do a stand alone
>> audio section. The Range gets poor audio reports in spite of months of
>> trying to resolve it.
>>
>> I am wondering if anyone here as any experience using 813's as triodes
>> and would also like some help on the audio driver.
>
> My sole experience is using them not in triode mode, but in pentode
> mode. The RCA specs tell about using a pair in AB1 as a modulator.
> Specs here:
>
>   http://www.mif.pg.gda.pl/homepages/frank/sheets/079/8/813.pdf
>
> In triode mode (plate connected to screen) you'd be limited to 750

> volts on the plate if you follow the spec sheet religiously, which
> will really hurt you in terms of AF power ability. I'm guessing that a
> pair of 813's used this way would not put out more than 120W of audio
> power. Many beam power tubes will take more volts on the screen than
> the spec sheet will say without arcing over but I cannot tell you
> about this mode on an 813.
>
> In pentode mode you have to do a fairly stiff screen supply (which you
> might have elsewhere in your line-up). Don't forget the -80V or so
> grid bias too.
>
> The "classic" way of doing all this is with a pair or maybe two pairs
> of 811A's, which are zero-bias as a class B modulator. You can easily
> get 250W of audio out of a pair or 500W out of two pairs. Driving
> power isn't zero but it's very moderate (less than 10 watts).
>
> The tubes for all this is easy - but you've got a modulation
> transformer lined up already? Choosing impedances to match that
> transformer is probably more relevant than any dickering about tubes.
>
> Tim.
>

A better way to use the 813 in triode mode is to connect the two grids
together. This creates a HI-MU zero bias triode. There is some data
for this in old handbooks for grounded grid operation. However running
them in grid driven mode as zero bias triodes would be identical, except
for lower driving power.

From -5192554678738537656
X-Google-Thread: fc2a5,41242e3cdaf57a6f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.litech.org!not-for-mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Dish Network "500" dish with two LNBs
Date: Fri, 23 Feb 2007 02:11:01 +0000 (UTC)
Organization: Me?
Lines: 31
Sender: mikea@mikea.ath.cx
Message-ID: <erlifl$g61$1@puck.litech.org>
References: <erlb81$954$1@puck.litech.org> <45DE3E5F.8080501@bloomer.net>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1172196661 16577 68.15.203.64 (23 Feb 2007 02:11:01 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Fri, 23 Feb 2007 02:11:01 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:9145

```
On Fri, 23 Feb 2007 01:07:43 +0000, Scott <acepilot@bloomer.net> wrote in
<45DE3E5F.8080501@bloomer.net>:
> http://www.geocities.com/PatBillDavis/10GhzGear.html

> Most of us convert them to 10GHz.  They are too small to be very useful
> at UHF.  Plus, the DSS Feedhorn is easily modifed to 10 GHz by boring it
> out to 0.75 inch and add an SMA connector as a probe to excite the
> waveguide.  See above webpage for a short tutorial.

> Groups that do 10 GHz construction and contesting:

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> Scott
> N0EDV

> Mike Andrews wrote:

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>> and the in-home receiver.
>>
>> Anyone got anything on converting these to UHF-and-above amateur
>> operations? Pointers on groups and/or lists? All information and
>> pointers gratefully accepted.

Thanks _very_ much. I see some construction in my future,

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin


From -6019514893130535481
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q2g2000cwa.googlegroups.com!not-for-
mail
From: harry.bilgewater@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 22 Feb 2007 19:08:38 -0800
Organization: http://groups.google.com
Lines: 54
Message-ID: <1172200118.191688.38800@q2g2000cwa.googlegroups.com>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
NNTP-Posting-Host: 141.156.48.201
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172200133 23877 127.0.0.1 (23 Feb 2007 03:08:53 GMT)
```

X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 23 Feb 2007 03:08:53 +0000 (UTC)
In-Reply-To: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q2g2000cwa.googlegroups.com; posting-host=141.156.48.201;
   posting-account=8eHP7g0AAADauKHOHGRFCk_T8aIPCyYS
Xref: g2news2.google.com rec.radio.amateur.homebrew:9146

On Jan 25, 9:23 pm, eternalsqu...@comcast.net wrote:
> All,
>
> I have a situation, and would like some opinions rather than flames on
> how to handle it.   My wife teaches at a public school just off the
> Easter Arizona Navajo reservation.   Lately, a junior school science
> teacher is starting up a science club and has asked me to provide for
> the amateur radio side of the club and be its control operator.
>
> She believes that the kids would be fascinated by the Morse code -
> Dxing - Construction end of the hobby, even though Morse is no longer a
> required test element.
>
> The kids are mostly Navajo and thusly have a very limited technological
> background (hence the reason for the club to stir the interest), so I
> need something concrete with immediate payoff to keep their interest
> hooked while getting them as ready as I can to write their Technician
> exam. The nearest VEC is 4 hours away and I'd rather have as few fail
> as possible.
>
> I had thought to start an unlicensed micro-power code practice net
> whose range would be limited to about a 30 mile radius, which is about
> the size of the local reservation right next to the school.
>
> What I want to do is provide each kid with a popcorn CW transceiver for
> the colorburst frequency (3579 khz), a key, a short random wire, and a
> battery.   That way they could practice amongst themselves with
> myself as occasional net control.
>
> My question is this: so long as final output to the antenna is within
> the requirement of part 15 unlicensed operation, is part 15 unlicensed
> operation allowed within a band normally governed under part 97?
> Part 15 operation would easily cover a 30 mile radius on 80M.
>
> If no, I'll run the net under part 15 on the edge of the AM band near
> 160M.
>
> Thanks in advance,
>
> The Eternal Squire

First, Good SHow on trying to interest the kids.

Secondly, have you investigated 160-190 KHz as an option. The transmit antenna would be limited in length to a max of 50 feet but the receive antenna can be tuned dipoles. The transmitter is limited to 1 watt output so it will be a heck of a lot easier to measure then the Low power Part 15 devices. If they live in a rural area they should have little manmade noise to contend with. Tuning the receiver and transmitter can be done with an oscope and low frequency generator. The other thing is the receiver can use a block converter with an AM radio.

```
From 7337716946801836729
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j27g2000cwj.googlegroups.com!not-for-
mail
From: "tack" <tack1@flash.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Making Filter Chokes
Date: 22 Feb 2007 21:24:29 -0800
Organization: http://groups.google.com
Lines: 64
Message-ID: <1172208269.278017.306290@j27g2000cwj.googlegroups.com>
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
   <z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net>
   <45D25B20.1090806@worldnet.att.net>
   <bx6Bh.18315$p9.3093@bignews7.bellsouth.net>
   <slrnetavn3.cf.gsm@cable.mendelson.com>
   <1171674635.846476.313740@s48g2000cws.googlegroups.com>
   <v7EBh.13287$B8.4679@bignews6.bellsouth.net>
   <1171830561.520342.64740@q2g2000cwa.googlegroups.com>
   <4TkBD9V8HN2FFAZs@ifwtech.co.uk>
   <1171858502.321693.286560@m58g2000cwm.googlegroups.com>
   <1171908159.721524.90150@m58g2000cwm.googlegroups.com>
   <1171929184.125827.137750@k78g2000cwa.googlegroups.com>
   <1171931085.488463.165330@l53g2000cwa.googlegroups.com>
   <1172080592.658625.191390@q2g2000cwa.googlegroups.com>
   <1172105150.336095.284560@h3g2000cwc.googlegroups.com>
NNTP-Posting-Host: 68.89.238.73
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172208274 10320 127.0.0.1 (23 Feb 2007 05:24:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 23 Feb 2007 05:24:34 +0000 (UTC)
In-Reply-To: <1172105150.336095.284560@h3g2000cwc.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET
CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
```

Injection-Info: j27g2000cwj.googlegroups.com; posting-host=68.89.238.73;
posting-account=uKUyGwwAAAAkx11KnifX36YVybIZ6Qe1
Xref: g2news2.google.com rec.radio.amateur.homebrew:9147

On Feb 21, 6:45 pm, N...@AOL.COM wrote:
> On Feb 21, 12:56?pm, "tack" <t...@flash.net> wrote:
>
> > Say, can anyone point me to some information
> > on creating my own filter
> > chokes?
>
> What size? Do you mean the type commonly used in
> hollow-state gear - several henries at a couple of dozen
> to a couple of hundred milliamps, insulated for hundreds
> or thousands of volts?
>
> If so, there is some info in older ARRL Handbooks and
> in older versions of "Reference Data For Radio Engineers".
>
> I can look up some details if needed.
>
> >?Is there a source that anyone knows of for silicon-iron
> > core plates? ?
>
> aka laminations
>
> I googled "silicon iron transformer laminations" and found
> a lot of stuff. Take a look. But I suspect that they may be
> geared to production quantity orders.
>
> One common source is the power transformer from an
> old microwave oven. These are often welded together,
> rather than bolted, and it may take a bit of work with a grinder to
> get the core apart.
>
> 73 de Jim, N2EY

Thanks for the reply. I had a "brain fart" at the time I was writing and the term "laminations" escaped me. I have various old transformers of various voltages, I hate to take any apart. I think that I will ohm them out and see if there are any open windings. Yes, hollow state technology, that's what I am in to. Got started at a young age. My grandfather made and repaired radios before and after the war. He is not doing too well now. I have most of his gear and NOS parts and such. Next weekend I'll be picking up his Riders. Got his Drake TR-3 (AC-3 and DC-3 too). I'll be getting that old Drake back on the air! Anyway I'm planning some amp projects in the future (After I clear a backlog of a dozen Transoceanics) I have a few chokes but I just wanted to try my hand at making my own power chokes. Made RF inductors in the past for SW receiver 1930's style. I may be needin' up to 20 hy. I'll be on Google later on researching

I suppose. Just thought I'd mention about the choke cores in case someone knew of a small qty source or had some to sell. I'm thinking about taking a bundle of soft iron wires (bailing wire) insulating them individually and corporately, then winding wire on. Fold the ends of the "core" together. Perhaps a nice project with my son; help him to learn. I've got a 15lb spool of 30awg to experiment with.

By the way, if Prof. Anderson is looking at this, I refrained in reading your latest long ego post. Except for the first paragraph. I will not react nor acknowledge your presence in the future. It would not be edifying. I do not believe you suit my purpose here on these groups, which is the friendly exchange of ideas and thoughts (when I have the free time to get on the computer) No name calling, no self promotion, no condescending attitudes. No bull. It's too distressing.

```
From 6897249972539866456
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X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
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news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 23 Feb 2007 06:05:12 -0600
Message-ID: <45DED878.8070604@bloomer.net>
Date: Fri, 23 Feb 2007 12:05:12 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To: Mike Andrews <mikea@mikea.ath.cx>
Subject: Re: Dish Network "500" dish with two LNBs
References: <erlb81$954$1@puck.litech.org> <45DE3E5F.8080501@bloomer.net>
<erlifl$g61$1@puck.litech.org>
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9148
```

The good news is that converting them for 10 GHz is pretty easy! Now I
suppose you'll want to get some 10 GHz equipment. I can help you there
as well... http://www.downeastmicrowave.com/

Happy homebrewing!

Scott
N0EDV

Mike Andrews wrote:
> On Fri, 23 Feb 2007 01:07:43 +0000, Scott <acepilot@bloomer.net> wrote in
<45DE3E5F.8080501@bloomer.net>:
>
>>http://www.geocities.com/PatBillDavis/10GhzGear.html
>
>
>>Most of us convert them to 10GHz. They are too small to be very useful
>>at UHF. Plus, the DSS Feedhorn is easily modifed to 10 GHz by boring it
>>out to 0.75 inch and add an SMA connector as a probe to excite the
>>waveguide. See above webpage for a short tutorial.
>
>
>>Groups that do 10 GHz construction and contesting:
>
>
>>http://www.nlrs.org
>>http://www.cvvhf.org
>
>
>>Scott
>>N0EDV
>
>
>>Mike Andrews wrote:
>
>
>>>I just got a Dish Network "500" dish with two LNBs, mounting hardware,
>>>and the in-home receiver.
>>>
>>>Anyone got anything on converting these to UHF-and-above amateur
>>>operations? Pointers on groups and/or lists? All information and
>>>pointers gratefully accepted.
>
>
> Thanks _very_ much. I see some construction in my future,
>

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From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 813's as Modulators
Date: Fri, 23 Feb 2007 07:31:54 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12ttr66r4mp9h72@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <12toem5go4rou40@corp.supernews.com>
<1172151717.472484.205960@q2g2000cwa.googlegroups.com>
<1trDh.21783$6a.18645@bignews4.bellsouth.net>
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Lines: 17
Xref: g2news2.google.com rec.radio.amateur.homebrew:9149

ken scharf wrote:

> A better way to use the 813 in triode mode is to connect the two grids
> together. This creates a HI-MU zero bias triode.

That is the way I am using them. Got it all together last night and had a short QSO with a good audio report. It takes very little Ranger audio to get 100% mod.

Unfortunately, the plate tuning cap started arcing so I had to shut it down and have a look today.

js

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

From 3730899935003419239
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!t69g2000cwt.googlegroups.com!not-for-mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 813's as Modulators
Date: 23 Feb 2007 06:54:15 -0800
Organization: http://groups.google.com
Lines: 58
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1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
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Xref: g2news2.google.com rec.radio.amateur.homebrew:9150

On Feb 22, 8:35 pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
> TimShoppawrote:
> > On Feb 21, 7:27 am, Jack Schmidling <a...@mc.net> wrote:
> >> My new (first one in 50 years) is an 8000 modulated by a pair of 813's
> >> running as triodes. The RF deck and Pw supply are up and running and I
> >> am working on the modulator now.
>
> >> My plans are to drive it with the Ranger and eventually do a stand alone
> >> audio section.  The Range gets poor audio reports in spite of months of
> >> trying to resolve it.
>
> >> I am wondering if anyone here as any experience using 813's as triodes
> >> and would also like some help on the audio driver.
>
> > My sole experience is using them not in triode mode, but in pentode
> > mode. The RCA specs tell about using a pair in AB1 as a modulator.
> > Specs here:
>
> >  http://www.mif.pg.gda.pl/homepages/frank/sheets/079/8/813.pdf
>
> > In triode mode (plate connected to screen) you'd be limited to 750
> > volts on the plate if you follow the spec sheet religiously, which
> > will really hurt you in terms of AF power ability. I'm guessing that a
> > pair of 813's used this way would not put out more than 120W of audio
> > power. Many beam power tubes will take more volts on the screen than
> > the spec sheet will say without arcing over but I cannot tell you
> > about this mode on an 813.
>
> > In pentode mode you have to do a fairly stiff screen supply (which you
> > might have elsewhere in your line-up). Don't forget the -80V or so
> > grid bias too.
>
> > The "classic" way of doing all this is with a pair or maybe two pairs
> > of 811A's, which are zero-bias as a class B modulator.  You can easily
> > get 250W of audio out of a pair or 500W out of two pairs. Driving
> > power isn't zero but it's very moderate (less than 10 watts).
```

>
> > The tubes for all this is easy - but you've got a modulation
> > transformer lined up already? Choosing impedances to match that
> > transformer is probably more relevant than any dickering about tubes.
>
> > Tim.
>
> A better way to use the 813 in triode mode is to connect the two grids
> together. This creates a HI-MU zero bias triode.

My experiments at audio have shown that this mode causes more nonlinearity than simple pentode mode. But... maybe not anymore than you'd get from a similar-sized high-mu zero bias triode, as those are fairly nonlinear too!

My experiments were with much smaller tubes (807's and 6L6's and the like) than the 813's we're talking about here. Most of the extant SPICE models do pretty bad when you tie the screen and control grid together (not surprising!)

Tim.

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NNTP-Posting-Date: Fri, 23 Feb 2007 09:52:07 -0600
Date: Fri, 23 Feb 2007 07:52:46 -0800
From: Tim Wescott <tim@seemywebsite.com>
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Subject: Re: 813's as Modulators
References: <12toem5go4rou40@corp.supernews.com>
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X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9151

Jack Schmidling wrote:
> ken scharf wrote:
>
>> A better way to use the 813 in triode mode is to connect the two grids
>> together. This creates a HI-MU zero bias triode.
>
>
> That is the way I am using them. Got it all together last night and had
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> audio to get 100% mod.
>
> Unfortunately, the plate tuning cap started arcing so I had to shut it
> down and have a look today.
>
> js
>
Please post a schematic on your web site!

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

From 751041617375118692
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From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 813's as Modulators
Date: 23 Feb 2007 08:21:10 -0800
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Lines: 21
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Xref: g2news2.google.com rec.radio.amateur.homebrew:9152
```

On Feb 23, 10:52 am, Tim Wescott <t...@seemywebsite.com> wrote:

> Please post a schematic on your web site!

Tim -

You might be surprised how few parts there are in a classical zero-bias class-B modulator.

There's a schematic in the 50's/60's ARRL handbooks, and the ENTIRE circuit is two 811A's and an output transformer. That's it!

This simplicity is the cunning advantage and popularity of zero-bias triodes (or zero-bias-triode operation of the other tubes). Once you get to beam tubes/pentodes with all their bias supplies and screen supplies and power-supply-sequencing etc. you start getting into having to draw schematics.

Later editions added a pi filter on the output to reduce "splatter" and a control relay to remove plate voltage on receive.

Tim.

```
From 7075187033715159431
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Date: Fri, 23 Feb 2007 09:30:10 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
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Subject: Re: 813's as Modulators
References: <12toem5go4rou40@corp.supernews.com>
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<1trDh.21783$6a.18645@bignews4.bellsouth.net>
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X-Complaints-To: abuse@web-ster.com
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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9153

Tim Shoppa wrote:

> On Feb 23, 10:52 am, Tim Wescott <t...@seemywebsite.com> wrote:
>
>>Please post a schematic on your web site!
>
>
> Tim -
>   You might be surprised how few parts there are in a classical zero-
> bias class-B modulator.
>
> There's a schematic in the 50's/60's ARRL handbooks, and the ENTIRE
> circuit is two 811A's and an output transformer. That's it!
>
> This simplicity is the cunning advantage and popularity of zero-bias
> triodes (or zero-bias-triode operation of the other tubes). Once you
> get to beam tubes/pentodes with all their bias supplies and screen
> supplies and power-supply-sequencing etc. you start getting into
> having to draw schematics.
>
> Later editions added a pi filter on the output to reduce "splatter"
> and a control relay to remove plate voltage on receive.
>
> Tim.
>
I guess I'm more interested in knowing what the supply and grid voltages
are, transformer ratios, a bill of materials, that sort of thing.

Yes, you are correct that the schematic of a one cubic foot, 100 pound monster amplifier could be drawn on a business card, but still...

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

From -4104108449481305453
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Path: g2news2.google.com!postnews.google.com!8g2000cwh.googlegroups.com!not-for-mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 813's as Modulators
Date: 23 Feb 2007 09:34:32 -0800
Organization: http://groups.google.com
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Xref: g2news2.google.com rec.radio.amateur.homebrew:9154

On Feb 23, 12:30 pm, Tim Wescott <t...@seemywebsite.com> wrote:
> I guess I'm more interested in knowing what the supply and grid voltages
> are, transformer ratios, a bill of materials, that sort of thing.

I too am interested in the transformers that he's using. Tubes are
easy to come by in comparison to appropriate modulation transformers.

And it can't be the super-simplest implementation because I see some
pictures with little power transformers with diodes and electrolytics
forming some kind of bias supply.

Then you have to work hard to not burn up your favorite modulation and
plate transformers :-). Plate chokes, I can rewind them when they
catch on fire now!

Tim.

```
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User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Dish Network "500" dish with two LNBs
References: <erlb81$954$1@puck.litech.org> <45DE3E5F.8080501@bloomer.net>
In-Reply-To: <45DE3E5F.8080501@bloomer.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 31
Message-ID: <KvIDh.5054$_73.3098@newsread2.news.pas.earthlink.net>
Date: Fri, 23 Feb 2007 20:54:02 GMT
NNTP-Posting-Host: 66.82.198.227
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1172264042 66.82.198.227 (Fri, 23 Feb
2007 12:54:02 PST)
NNTP-Posting-Date: Fri, 23 Feb 2007 12:54:02 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:9155
```

You also might want to look at the San Bernardino Microwave Society web
site here:

www.ham-radio.com/sbms

Erich
KA6AMD

Scott wrote:
> http://www.geocities.com/PatBillDavis/10GhzGear.html
>

```
> Most of us convert them to 10GHz.  They are too small to be very useful
> at UHF.  Plus, the DSS Feedhorn is easily modifed to 10 GHz by boring it
> out to 0.75 inch and add an SMA connector as a probe to excite the
> waveguide.  See above webpage for a short tutorial.
>
> Groups that do 10 GHz construction and contesting:
>
> http://www.nlrs.org
> http://www.cvvhf.org
>
> Scott
> N0EDV
>
> Mike Andrews wrote:
>
>> I just got a Dish Network "500" dish with two LNBs, mounting hardware,
>> and the in-home receiver.
>> Anyone got anything on converting these to UHF-and-above amateur
>> operations? Pointers on groups and/or lists? All information and
>> pointers gratefully accepted.


From 7358146542058148658
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!t69g2000cwt.googlegroups.com!not-for-
mail
From: "Lefty" <llah@sbcglobal.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: Now that CW is gone there will be more ham to non-ham conflicts.
Date: 23 Feb 2007 13:48:38 -0800
Organization: http://groups.google.com
Lines: 12
Message-ID: <1172267318.119745.218720@t69g2000cwt.googlegroups.com>
References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
NNTP-Posting-Host: 75.31.58.53
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172267324 5674 127.0.0.1 (23 Feb 2007 21:48:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 23 Feb 2007 21:48:44 +0000 (UTC)
In-Reply-To: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; YPC
3.0.0; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: t69g2000cwt.googlegroups.com; posting-host=75.31.58.53;
   posting-account=07osvQ0AAAAtEgnqa-OJGGh1Fjp5-TfI
Xref: g2news2.google.com rec.radio.amateur.homebrew:9156
```

rec.radio.amateur.misc:29444 rec.radio.amateur.policy:66622

On Feb 22, 5:16 pm, Retard Invasion <goodby...@m.radio> wrote:

> The code hating losers were too stupid and lazy to learn and use CW,
> they're also probably going to be too stupid and lazy to solve TVI
> and interference problems with their neigbhors. There will be more
> amateur to amateur and amateur to non-amateur conflicts. Hams will look
> bad and the FCC will regulate the service more because of all the retards
> we let have HF privledges.   CQ Breaker, CQ Breaker.
>
> Welcome to CB everybody.

And your point is ????

```
From 7772038433767282690
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!h3g2000cwc.googlegroups.com!not-for-
mail
From: N2EY@AOL.COM
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Making Filter Chokes
Date: 23 Feb 2007 14:55:44 -0800
Organization: http://groups.google.com
Lines: 92
Message-ID: <1172271344.199160.122800@h3g2000cwc.googlegroups.com>
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
   <z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net>
   <45D25B20.1090806@worldnet.att.net>
   <bx6Bh.18315$p9.3093@bignews7.bellsouth.net>
   <slrnetavn3.cf.gsm@cable.mendelson.com>
   <1171674635.846476.313740@s48g2000cws.googlegroups.com>
   <v7EBh.13287$B8.4679@bignews6.bellsouth.net>
   <1171830561.520342.64740@q2g2000cwa.googlegroups.com>
   <4TkBD9V8HN2FFAZs@ifwtech.co.uk>
   <1171858502.321693.286560@m58g2000cwm.googlegroups.com>
   <1171908159.721524.90150@m58g2000cwm.googlegroups.com>
   <1171929184.125827.137750@k78g2000cwa.googlegroups.com>
   <1171931085.488463.165330@l53g2000cwa.googlegroups.com>
   <1172080592.658625.191390@q2g2000cwa.googlegroups.com>
   <1172105150.336095.284560@h3g2000cwc.googlegroups.com>
   <1172208269.278017.306290@j27g2000cwj.googlegroups.com>
NNTP-Posting-Host: 205.188.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1172271361 31679 127.0.0.1 (23 Feb 2007 22:56:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 23 Feb 2007 22:56:01 +0000 (UTC)
In-Reply-To: <1172208269.278017.306290@j27g2000cwj.googlegroups.com>
```

```
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 Turboweb [dtc-td041 8.4.1], HTTP/1.1 cache-dtc-
aa07.proxy.aol.com[CDBC740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: h3g2000cwc.googlegroups.com; posting-host=205.188.116.11;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news2.google.com rec.radio.amateur.homebrew:9157

On Feb 23, 12:24=EF=BF=BDam, "tack" <t...@flash.net> wrote:
> On Feb 21, 6:45 pm, N...@AOL.COM wrote:
> > On Feb 21, 12:56?pm, "tack" <t...@flash.net> wrote:
>
> > > Say, can anyone point me to some information
> > > on creating my own filter
> > > chokes?
>
> > What size? Do you mean the type commonly used in
> > hollow-state gear - several henries at a couple of dozen
> > to a couple of hundred milliamps, insulated for hundreds
> > or thousands of volts?
>
> > If so, there is some info in older ARRL Handbooks and
> > in older versions of "Reference Data For Radio Engineers".
>
> > I can look up some details if needed.
>
> > >Is there a source that anyone knows of for silicon-iron
> > > core plates?
>
> > aka laminations
>
> > I googled "silicon iron transformer laminations" and found
> > a lot of stuff. Take a look. But I suspect that they may be
> > geared to production quantity orders.
>
> > One common source is the power transformer from an
> > old microwave oven. These are often welded together,
> > rather than bolted, and it may take a bit of work with a grinder to
> > get the core apart.
>
> > 73 de Jim, N2EY
>
> Thanks for the reply. =A0

You're welcome!

> the term "laminations" escaped me. =A0

CRS disease......"Can't Remember......Stuff"

>I have various old
```

> transformers of various voltages, I hate to take any apart. =A0I think
> that I will ohm them out and see if there are any open windings.

I agree that on not taking apart a good transformer!

There are enough bad ones that it shouldn't be necessary,
anyway.

>=A0Yes,
> hollow state technology, that's what I am in to. =A0Got started at a
> young age. =A0My grandfather made and repaired radios before and after
> the war. =A0He is not doing too well now. =A0I have most of his gear and
> NOS parts and such. =A0Next weekend I'll be picking up his Riders. Got
> his Drake TR-3 (AC-3 and DC-3 too). =A0I'll be getting that old Drake
> back on the air! Anyway I'm planning some amp projects in the future
> (After I clear a backlog of a dozen Transoceanics) =A0I have a few
> chokes but I just wanted to try my hand at making my own power
> chokes. =A0Made RF inductors in the past for SW receiver 1930's style.
> I may be needin' up to 20 hy. =A0I'll be on Google later on researching
> I suppose. =A0Just thought I'd mention about the choke cores in case
> someone knew of a small qty source or had some to sell. =A0

I will look in my pile of stuff for bad ones that can be
dismantled for the iron.

>I'm thinking
> about taking a bundle of soft iron wires (bailing wire) insulating
> them individually and corporately, then winding wire on. =A0Fold the
> ends of the "core" together. =A0Perhaps a nice project with my son; help
> him to learn.

The main problem I see with that is the magnetic properties
might not be as good, resulting in fewer henries than desired.

> =A0I've got a 15lb spool of 30awg to experiment with.

EXCELLENT!

You might consider making some sort of winder. Chokes
typically involve thousands of turns, and you don't want to
just jumblewind them.

I will see what sort of basic choke data I can find in
my library.

Google my call, too.....

73 de Jim, N2EY

From 4513150741706979767
X-Google-Thread: fc2a5,e5c95f770c8ed9f

```
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Stefan Wolfe" <stefan@eml.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
<1172267318.119745.218720@t69g2000cwt.googlegroups.com>
Subject: Re: Now that CW is gone there will be more ham to non-ham conflicts.
Date: Fri, 23 Feb 2007 19:32:05 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Lines: 19
Message-ID: <45df8787$0$28161$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:9158
rec.radio.amateur.misc:29453 rec.radio.amateur.policy:66635


"Lefty" <llah@sbcglobal.net> wrote in message
news:1172267318.119745.218720@t69g2000cwt.googlegroups.com...
> On Feb 22, 5:16 pm, Retard Invasion <goodby...@m.radio> wrote:
>> The code hating losers were too stupid and lazy to learn and use CW,
>> they're also probably going to be too stupid and lazy to solve TVI
>> and interference problems with their neigbhors.  There will be more
>> amateur to amateur and amateur to non-amateur conflicts.  Hams will look
>> bad and the FCC will regulate the service more because of all the retards
>> we let have HF privledges.   CQ Breaker, CQ Breaker.
>>
>> Welcome to CB everybody.
>
> And your point is ????

I think it would have been sufficient to punctuate your sentence with just 3
question marks. Four question marks seems a bit excessive, agree???




From 478847708833376365
X-Google-Thread: fc2a5,dc765360956da8fe,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!8g2000cwh.googlegroups.com!not-for-
mail
```

From: JIMMIEDEE123@YAHOO.COM
Newsgroups: rec.radio.amateur.homebrew
Subject: Amp design question
Date: 23 Feb 2007 17:32:33 -0800
Organization: http://groups.google.com
Lines: 16
Message-ID: <1172280753.127018.275120@8g2000cwh.googlegroups.com>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172280773 21652 127.0.0.1 (24 Feb 2007 01:32:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 24 Feb 2007 01:32:53 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 8g2000cwh.googlegroups.com; posting-host=204.108.8.5;
   posting-account=zCf1Uw0AAAAC_RNkZf7dTivygQcRNODI
Xref: g2news2.google.com rec.radio.amateur.homebrew:9159

I am planning on building a solidstate amp of about 100watts to use with a low power transceiver. My interestrare 20 thru 10 meters and I thought I could save a little board space and maybe money if I designed the output transformer to cover just these bands. I have half the cores I need to build a transformer that covers 80 thru 10 I was wondering if this would be good enough for a transformer for 20 thru 10. Also the amp will be mounted right at the base of the antenna I am thinking of designing the amp with an output impedance considerably less than the usual 50 ohms. I am thinking this would make fial matching to the antenna easier. Any comments would be greatly appreciated.

Jimmie
KD4RQE

From -7757655734620737369
X-Google-Thread: fc2a5,dc765360956da8fe
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,CP1252
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.adelphia.com!news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 23 Feb 2007 20:39:52 -0600
Date: Fri, 23 Feb 2007 21:40:07 -0500
From: "Paul E. Cater" <paulcater@roadrunner.com>
Organization: Cater Enterprise
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Amp design question
References: <1172280753.127018.275120@8g2000cwh.googlegroups.com>
In-Reply-To: <1172280753.127018.275120@8g2000cwh.googlegroups.com>
Content-Type: text/plain; charset=windows-1252; format=flowed
Content-Transfer-Encoding: 8bit
Message-ID: <Is-dncZ1TfjlOELYnZ2dnUVZ_tKjnZ2d@adelphia.com>
Lines: 61
NNTP-Posting-Host: 76.181.217.122
X-Trace: sv3-
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o4ZqtWwnH1pIt6nmpAFe3utDHVXWhvXCJ6lVLKGBFszv8CHgXizSERBLcKIOENE/AsipbyofEuiF!
PkOgtqcEElsXEqvZ0IStnWDd60R/bXy1tFs=
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9160

JIMMIEDEE123@YAHOO.COM wrote:
> I am planning on building a solidstate amp of about 100watts to use
> with a low power transceiver. My interestrare 20 thru 10 meters and I
> thought I could save a little board space and maybe money if I
> designed the output transformer to cover just these bands. I have half
> the cores I need to build a transformer that covers 80 thru 10 I was
> wondering if this would be good enough for a transformer for 20 thru
> 10. Also the amp will be mounted right at the base of the antenna I am
> thinking of designing the amp with an output impedance considerably
> less than the usual 50 ohms. I am thinking this would make fial
> matching to the antenna easier. Any comments would be greatly
> appreciated.
>
>
> Jimmie
> KD4RQE
>
Hi Jimmie,

As for the transformers needed for your project, thinking about it quickly, the inductive reactance would decrease as you leave out cores so at the higher end of the band I think you are going to have problems.
  I�m sure there are others in the group that can guide you in this area.

Whatever you end up doing put an output filter on the thing as it will amplify whatever you feed it just like the fundamental. Yea, I know, all modern transceivers are clean. A little �over-kill� never hurts.

I'm very curious why you are interested in mounting the amp at the antenna? Do you intend to use it as a matching device for the antenna as well as amplification? I believe that is where you are coming from with the idea.

I want you to think about a couple things. The solid-state amp is going to be a DC powered device. How long will the power lines have to be to reach the amp at the antenna? You would need to run two wires, of course, that are going to have considerable DC losses especially with the current the amplifier has to draw. The �I� squared �R� power losses would be substantial even on a short run.

The second thought is about the actual coaxial loss that could take place at 28 to 30 MHz. As long as you are not planning to use RG-58 or cheap RG-8, or making a few hundred foot run, the line loss would be negligible compared to what you might gain from the amp being at the antenna. Also, it sure is much easier to work on it in the shack instead of having to climb a tower to yank it down.

As a final thought, if the antenna is 25 ohms, do what you need to do to make it OK. The worst case at a 2:1 SWR is around 10% power loss. I am a bit of a perfectionist with the impedance thing. So, I recommend choosing whatever matching system hits your fancy. If it is a balanced antenna by all means use a BALUN!

If we were talking about 2 meters or higher I might be a bit more concerned.

I do hope this helps with your ideas and project. I would be interested in knowing what you decide.

73,
Paul

From 8712297565976092767
X-Google-Thread: fc2a5,8259303a2f69f348
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q2g2000cwa.googlegroups.com!not-for-mail
From: N2EY@AOL.COM
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 813's as Modulators
Date: 23 Feb 2007 19:13:12 -0800
Organization: http://groups.google.com
Lines: 61
Message-ID: <1172286792.835377.32980@q2g2000cwa.googlegroups.com>
References: <12toem5go4rou40@corp.supernews.com>
   <pJadnSu6Eu5JaUHYnZ2dnUVZ_vCknZ2d@web-ster.com>
NNTP-Posting-Host: 205.188.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172286798 3303 127.0.0.1 (24 Feb 2007 03:13:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 24 Feb 2007 03:13:18 +0000 (UTC)
In-Reply-To: <pJadnSu6Eu5JaUHYnZ2dnUVZ_vCknZ2d@web-ster.com>
User-Agent: G2/1.0

```
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 Turboweb [dtc-ta113 8.4.1], HTTP/1.1 cache-dtc-
aa07.proxy.aol.com[CDBC740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: q2g2000cwa.googlegroups.com; posting-host=205.188.116.11;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news2.google.com rec.radio.amateur.homebrew:9161
```

On Feb 21, 8:42?pm, Tim Wescott <t...@seemywebsite.com> wrote:

> If I have my numbers right, a peak envelope power of 1500 watts equates
> to a carrier power of 375 watts, which requires an audio amplifier to
> put out 200 watts (to round up a bit).

Not exactly! You're mixing input and output powers.

Current FCC rules limit us to 1500 watts peak output.
On AM, that typically works out to 375 watts carrier output.

To make the math simple, let's assume our Class C
plate modulated final stage has 75% efficiency.
Then we will need to run 500 W DC plate input to get
375 watts carrier output, and 1500 watts peak output.

The audio power needed to plate-modulate that 500 watt
DC input stage is 250 watts - exactly half the DC input.
More modulator power is OK - it's a good idea to
figure on 300 watts or so, to allow for various losses,
and so the modulator tubes aren't running flat out to
give you 100% modulation.

You can easily see how the design could get complicated
in a hurry. Suppose your Class C modulated stage is
only 50% efficient, instead of 75%. Then you would need
750 watts DC input to the stage to get 375 watts carrier
output. And you'd need at least 375 watts of audio!

--

When reading old Handbooks and other amateur
radio publications, it's important to remember that in
the past hams rated transmitters by DC input, not output.
If you build a "100 watt" transmitter from those days and
expect to get 100 watts of RF from it, you will either be sadly
disappointed, or will run it way over design ratings
in order to get those 100 watts.

In the bad old days before 1984, Part 97 simply limited
US hams to 1000 watts DC plate input to the final. Which
meant you simply needed 500 or so watts of audio to plate
modulate a legal-limit AM rig, regardless of efficiency.'

The old rules are one big reason plate modulation was the AM method of choice for the Ancient Ones. The carrier efficiency of most other AM techniques (grid modulation, screen modulation, suppressor modulation, cathode modulation, conventional AM linear, etc.) is only 30-35%. So for a kilowatt DC input, you could only get about 300 watts of carrier output, and you'd need a final that could dissipate 700 W!

Under today's rules, the DC plate input doesn't matter - only the peak RF output matters.

btw, there's all sorts of tube data info online. No need to buy tube manuals anymore unless you are really into paper!

73 es GL de Jim, N2EY

From 1669078892611545374
X-Google-Thread: 10c2ee,120657984dd7625c
X-Google-Thread: fc8b1,120657984dd7625c
X-Google-Thread: fc2a5,120657984dd7625c
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc07.POSTED!3b5fc0bf!not-for-mail
From: "Paul P" <paulREMOVE@REMOVEppinyotREMOVE.com>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
References: <PerCh.3042$vu2.1488@trnddc04>
Subject: Re: Hammarlund HX-50 choke question.
Lines: 9
Organization: www.ppinyot.com
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <WbPDh.1220$JB2.1177@trnddc07>
Date: Sat, 24 Feb 2007 04:30:46 GMT
NNTP-Posting-Host: 141.151.144.95
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc07 1172291446 141.151.144.95 (Fri, 23 Feb 2007 23:30:46 EST)
NNTP-Posting-Date: Fri, 23 Feb 2007 23:30:46 EST
Xref: g2news2.google.com rec.antiques.radio+phono:47312
rec.radio.amateur.boatanchors:7665 rec.radio.amateur.homebrew:9162

Its Alive!!!
http://www.ppinyot.com/hammarlund.htm
More work to be done but it now makes heat into a dummy load.

Thanks for all the suggestions.

Paul.

```
From 8099285536742918254
X-Google-Thread: 10c2ee,120657984dd7625c
X-Google-Thread: fc8b1,120657984dd7625c
X-Google-Thread: fc2a5,120657984dd7625c
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: "Richard Knoppow" <dickburk@ix.netcom.com>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
References: <PerCh.3042$vu2.1488@trnddc04> <WbPDh.1220$JB2.1177@trnddc07>
Subject: Re: Hammarlund HX-50 choke question.
Date: Fri, 23 Feb 2007 22:08:40 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Lines: 22
Message-ID: <45dfc9dc$0$16393$88260bb3@free.teranews.com>
NNTP-Posting-Date: 24 Feb 2007 05:15:09 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.antiques.radio+phono:47334
rec.radio.amateur.boatanchors:7669 rec.radio.amateur.homebrew:9163
```

"Paul P" <paulREMOVE@REMOVEppinyotREMOVE.com> wrote in
message news:WbPDh.1220$JB2.1177@trnddc07...

> Its Alive!!!
> http://www.ppinyot.com/hammarlund.htm
> More work to be done but it now makes heat into a dummy
> load.
>
> Thanks for all the suggestions.
>
> Paul.

Congratulations!!! Sometimes it takes quite a bit of
digging to discover what's wrong.

--

Richard Knoppow
Los Angeles, CA, USA
dickburk@ix.netcom.com

--
Posted via a free Usenet account from http://www.teranews.com

From 3796263841396011135
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!8g2000cwh.googlegroups.com!not-for-mail
From: "terry" <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: Now that CW is gone there will be more ham to non-ham conflicts.
Date: 23 Feb 2007 23:56:58 -0800
Organization: http://groups.google.com
Lines: 29
Message-ID: <1172303818.483077.293990@8g2000cwh.googlegroups.com>
References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
   <1172267318.119745.218720@t69g2000cwt.googlegroups.com>
   <45df8787$0$28161$4c368faf@roadrunner.com>
NNTP-Posting-Host: 142.162.157.232
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172303824 30677 127.0.0.1 (24 Feb 2007 07:57:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 24 Feb 2007 07:57:04 +0000 (UTC)
In-Reply-To: <45df8787$0$28161$4c368faf@roadrunner.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 8g2000cwh.googlegroups.com; posting-host=142.162.157.232;
   posting-account=J8f3NA0AAAApayX7upsAHyq0lPJRDLXM
Xref: g2news2.google.com rec.radio.amateur.homebrew:9164 rec.radio.amateur.misc:29478 rec.radio.amateur.policy:66662

On Feb 23, 9:32 pm, "Stefan Wolfe" <ste...@eml.com> wrote:
> I think it would have been sufficient to punctuate your sentence with just 3
> question marks. Four question marks seems a bit excessive, agree???

Nah. The number of question marks is immaterial and avoids the contentious and intolerant (rant?) of the OP. Such comments very divisive to the the Amateur Radio hobby; IMHO.

Might one not think such an intolerant (possibly also an elitist?) attitude by a serving (already licensed) radio amateur does not augur well for the future of the hobby. Not sure as a newcomer I'd want to join a group with members who have that 'unkind' attitude!

Previously noticing some other intolerant (even vituperative) comments would not be surprised they may tend to give outsiders a view of an outdated, closed knit clan/society. Old codgers still using spark transmitters and coherer receivers, pounding away in their dimly lit shacks late at night and boasting about how many countries they have contacted for 500 milliseconds per contact; and please QSL.

QSLs via the Internet these days I presume?

Total four (4) question marks; used one at a time!

Rather than portray Amateur Radio as open, welcoming to younger newcomers and new modes of communication/trends.

No wonder the hobby is, in the opinion of some, dying?

```
From -6401406785491509021
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news.alt.net
From: "Len Slanderson" <flatusr@socal>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: Now that CW is gone there will be more ham to non-ham conflicts.
Date: Sat, 24 Feb 2007 03:38:18 -0500
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 35
Message-ID: <nlj2q.i4m.19.1@news.alt.net>
References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
<1172267318.119745.218720@t69g2000cwt.googlegroups.com>
<45df8787$0$28161$4c368faf@roadrunner.com>
<1172303818.483077.293990@8g2000cwh.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Xref: g2news2.google.com rec.radio.amateur.homebrew:9165
rec.radio.amateur.misc:29479 rec.radio.amateur.policy:66664
```

> QSLs via the Internet these days I presume?
>
> Total four (4) question marks; used one at a time!
>

> Rather than portray Amateur Radio as open, welcoming to younger
> newcomers and new modes of communication/trends.
>
> No wonder the hobby is, in the opinion of some, dying?
>

The hobby is alive and well, though offshooting into private little cliques here and there.
Paul W. Schleck is a bit delusional what with his new, exclusionary new newsgroup, but like all fads, this one, too, will pass.

Paul's new moderated group, I predict, will see a modicum of new users at the outset, but after, say, 60 days his moderated group will wither on the vine and become history. His new moderated group was doomed for failure well before it reached fruition.

I wonder if BlowGut Paul will send his "welcome" messages to the new users of his self-serving moderated group? He, Paul, has a knack for being an insufferable blowhard. Come to think of it, he is not too far removed from the gasseous emissions of Lennie, the California Cryaby who still has issues with old zoning matters.

Oops! Tsk! Tsk!. Did I poke politically incorrect fun at a poor, disgruntled oldster whose colostomy bag runneth over?

From 174396102755539147
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news1.google.com!news.maxwell.syr.edu!sn-xt-sjc-05!sn-xt-sjc-10!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: A.L. <fela@2005.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: Now that CW is gone there will be more ham to non-ham conflicts.
Date: Sat, 24 Feb 2007 05:50:57 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <rj90u252mnfo14olfbd7gkgocdl06j6tu3@4ax.com>
References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
<1172267318.119745.218720@t69g2000cwt.googlegroups.com>
<45df8787$0$28161$4c368faf@roadrunner.com>
<1172303818.483077.293990@8g2000cwh.googlegroups.com>
<nlj2q.i4m.19.1@news.alt.net>
X-Newsreader: Forte Agent 4.2/32.1117 trialware

```
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 28
Xref: g2news2.google.com rec.radio.amateur.homebrew:9166
rec.radio.amateur.misc:29483 rec.radio.amateur.policy:66668

On Sat, 24 Feb 2007 03:38:18 -0500, "Len Slanderson" <flatusr@socal>
wrote:

>
>
>> QSLs via the Internet these days I presume?
>>
>> Total four (4) question marks; used one at a time!
>>
>> Rather than portray Amateur Radio as open, welcoming to younger
>> newcomers and new modes of communication/trends.
>>
>> No wonder the hobby is, in the opinion of some, dying?
>>
>
>The hobby is alive and well, though offshooting into private little cliques
>here and there.
>Paul W. Schleck is a bit delusional what with his new, exclusionary new
>newsgroup, but like all fads, this one, too, will pass.
>
>Paul's new moderated group, I predict, will see a modicum of new users at
>the outset, but after, say, 60 days his moderated group will wither on the
>vine and become history.

Only because this is not YOUR moderated group?

P.Z.
>



From 8106236570995475932
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 24 Feb 2007 07:56:52 -0600
Date: Sat, 24 Feb 2007 08:56:46 -0500
From: NoMoreSpam <Disgustedham@qrparci.org>
User-Agent: Thunderbird 1.5.0.5 (X11/20060719)
MIME-Version: 1.0
Newsgroups:
```

```
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: Now that CW is gone there will be more ham to non-ham conflicts.
References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
<1172267318.119745.218720@t69g2000cwt.googlegroups.com>
<45df8787$0$28161$4c368faf@roadrunner.com>
<1172303818.483077.293990@8g2000cwh.googlegroups.com>
In-Reply-To: <1172303818.483077.293990@8g2000cwh.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <N6OdnYlWMeu52X3YnZ2dnUVZ_urinZ2d@comcast.com>
Lines: 32
NNTP-Posting-Host: 68.37.243.231
X-Trace: sv3-
R0cAYRlBi3pCWXy4DF2zh5Bkt1GSVT2RjHOgiUaZFHvcASAVqp0iFo0iUaXUnR9Gs0OBD6UZ9Nvdc/m!
5hmasembnQR3KHFIxbNK1FTCTA80IBQajw8LEHYn6IW2tAmdlM/Iy4cgQBUmNU6D85znXFdw6jgB!
Wt9s1xtFff4c9vPdvpTM
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9167
rec.radio.amateur.misc:29487 rec.radio.amateur.policy:66676
```

terry wrote:

> On Feb 23, 9:32 pm, "Stefan Wolfe" <ste...@eml.com> wrote:
>> I think it would have been sufficient to punctuate your sentence with just 3
>> question marks. Four question marks seems a bit excessive, agree???
>
> Nah. The number of question marks is immaterial and avoids the
> contentious and intolerant (rant?) of the OP. Such comments very
> divisive to the the Amateur Radio hobby; IMHO.
>
> Might one not think such an intolerant (possibly also an elitist?)
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>
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> outdated, closed knit clan/society. Old codgers still using spark
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> shacks late at night and boasting about how many countries they have
> contacted for 500 milliseconds per contact; and please QSL.
>
> QSLs via the Internet these days I presume?
>
> Total four (4) question marks; used one at a time!
>
> Rather than portray Amateur Radio as open, welcoming to younger
> newcomers and new modes of communication/trends.
>

```
> No wonder the hobby is, in the opinion of some, dying?
>
RIGHT, don't be an "elitist." Be a moron like the rest of the no-coders so you
will fit in.



From 6342566209026842140
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!
news.astraweb.com!router1.astraweb.com!sn-xt-sjc-05!sn-xt-sjc-09!sn-post-sjc-02!
sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: A.L. <fela@2005.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: Now that CW is gone there will be more ham to non-ham conflicts.
Date: Sat, 24 Feb 2007 09:13:50 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <fgl0u25mfp77fjt23kch8vmj6ckd4i9mfi@4ax.com>
References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
<1172267318.119745.218720@t69g2000cwt.googlegroups.com>
<45df8787$0$28161$4c368faf@roadrunner.com>
<1172303818.483077.293990@8g2000cwh.googlegroups.com>
<N6OdnYlWMeu52X3YnZ2dnUVZ_urinZ2d@comcast.com>
X-Newsreader: Forte Agent 4.2/32.1117 trialware
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 11
Xref: g2news2.google.com rec.radio.amateur.homebrew:9168
rec.radio.amateur.misc:29490 rec.radio.amateur.policy:66683

On Sat, 24 Feb 2007 08:56:46 -0500, NoMoreSpam
<Disgustedham@qrparci.org> wrote:

>
>>
>RIGHT, don't be an "elitist." Be a moron like the rest of the no-coders so you
>will fit in.

Why no-coders are "morons"?...

A.L.



From -6661619186696256069
X-Google-Thread: fc2a5,dc765360956da8fe
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
```

Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1172280753.127018.275120@8g2000cwh.googlegroups.com> <Is-
dncZ1TfjlOELYnZ2dnUVZ_tKjnZ2d@adelphia.com>
Subject: Re: Amp design question
Date: Sat, 24 Feb 2007 14:20:12 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Lines: 82
Message-ID: <45e08bf7$0$8946$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:9169

"Paul E. Cater" <paulcater@roadrunner.com> wrote in message
news:Is-dncZ1TfjlOELYnZ2dnUVZ_tKjnZ2d@adelphia.com...
> JIMMIEDEE123@YAHOO.COM wrote:
>> I am planning on building a solidstate amp of about 100watts to use
>> with a low power transceiver. My interestrare 20 thru 10 meters and I
>> thought I could save a little board space and maybe money if I
>> designed the output transformer to cover just these bands. I have half
>> the cores I need to build a transformer that covers 80 thru 10 I was
>> wondering if this would be good enough for a transformer for 20 thru
>> 10. Also the amp will be mounted right at the base of the antenna I am
>> thinking of designing the amp with an output impedance considerably
>> less than the usual 50 ohms. I am thinking this would make fial
>> matching to the antenna easier. Any comments would be greatly
>> appreciated.
>>
>>
>> Jimmie
>> KD4RQE
>>
> Hi Jimmie,
>
> As for the transformers needed for your project, thinking about it
> quickly, the inductive reactance would decrease as you leave out cores so
> at the higher end of the band I think you are going to have problems. I�m
> sure there are others in the group that can guide you in this area.
>
> Whatever you end up doing put an output filter on the thing as it will
> amplify whatever you feed it just like the fundamental. Yea, I know, all
> modern transceivers are clean. A little �over-kill� never hurts.
>
> I'm very curious why you are interested in mounting the amp at the
> antenna? Do you intend to use it as a matching device for the antenna as

> well as amplification? I believe that is where you are coming from with the idea.
>
> I want you to think about a couple things. The solid-state amp is going to be a DC powered device. How long will the power lines have to be to reach the amp at the antenna? You would need to run two wires, of course, that are going to have considerable DC losses especially with the current the amplifier has to draw. The �I� squared �R� power losses would be substantial even on a short run.
>
> The second thought is about the actual coaxial loss that could take place at 28 to 30 MHz. As long as you are not planning to use RG-58 or cheap RG-8, or making a few hundred foot run, the line loss would be negligible compared to what you might gain from the amp being at the antenna. Also, it sure is much easier to work on it in the shack instead of having to climb a tower to yank it down.
>
> As a final thought, if the antenna is 25 ohms, do what you need to do to make it OK. The worst case at a 2:1 SWR is around 10% power loss. I am a bit of a perfectionist with the impedance thing. So, I recommend choosing whatever matching system hits your fancy. If it is a balanced antenna by all means use a BALUN!
>
> If we were talking about 2 meters or higher I might be a bit more concerned.
>
> I do hope this helps with your ideas and project. I would be interested in knowing what you decide.
>
> 73,
> Paul
>

I was tired when I made the post and for got to say that this would be a mbile unit. antenna mounted on my tool box in the bed of my pickup. It was really just a thought about mounting the amp in the tool box since room in my little Nissan is scarce. From there I made the leap to thinking since the feed point impdance of the antenna is already going to fairly low and feed line length practically 0 why step it up to 50 ohms just to drop it back down again. More realistically I am thinking a short antena on 20M may be more like 10 ohms wich would be a 5:1 SWR and I dont think my amp would like that much. At best I am thinking the 10M antena I am planning on using will have the 25 ohm impedance you metioned, 15 and 20 m antennas would have even a lower impedance.so an output impedance of say 15 ohms might be a good thing.

Jimmie

From 8241842868449639394
X-Google-Thread: fc2a5,dc765360956da8fe

X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,CP1252
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 24 Feb 2007 14:27:15 -0600
Date: Sat, 24 Feb 2007 15:27:32 -0500
From: "Paul E. Cater" <paulcater@roadrunner.com>
Organization: Cater Enterprise
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Amp design question
References: <1172280753.127018.275120@8g2000cwh.googlegroups.com> <Is-
dncZ1TfjlOELYnZ2dnUVZ_tKjnZ2d@adelphia.com>
<45e08bf7$0$8946$4c368faf@roadrunner.com>
In-Reply-To: <45e08bf7$0$8946$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=windows-1252; format=flowed
Content-Transfer-Encoding: 8bit
Message-ID: <gsudnf28meQ-An3YnZ2dnUVZ_tzinZ2d@adelphia.com>
Lines: 18
NNTP-Posting-Host: 76.181.217.122
X-Trace: sv3-
HLFBJIWtxicSk2kbYs2Ojmr4NsXMUEaC344QthRpfUXoGSg6gXByN9mbttF3R3rUQBxka9OdWr5kEIc!
FWN6+GDNnh0Wlo9s2MbFVOOYVHSM3bSEBTktKjIveq2WpRp6wMZ3VgMvpbtR4l7kbJKsxhV4+HO4!
NAekc4DVx4soQebrAST0AnhGZhPVtpboTLU=
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9170

Jimmie D wrote:

>

All OK Jimmie, now I get it. Mobile never entered my little mind.

If you were only going to use one band I can see how the idea might work. But, looking at all the different impedances the output will see on the different bands will be a problem.

I just tore apart an old plasma amplifier that utilized a solid-state driver stage. It�s loosely based on the Motorola design. Anyway, the output transformer uses three beads on each side. You are welcome to it if it will help you out with your project. Its just collecting dust here and I have no further use for it.

73,
Paul

```
From -4143320057141708942
X-Google-Thread: fc2a5,87fa50249afb23ed
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!t69g2000cwt.googlegroups.com!not-for-
mail
From: JIMMIEDEE123@YAHOO.COM
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Simple wideband audio amplifier circuit?
Date: 24 Feb 2007 14:52:05 -0800
Organization: http://groups.google.com
Lines: 36
Message-ID: <1172357524.957276.52630@t69g2000cwt.googlegroups.com>
References: <1171383280.535643.3860@v45g2000cwv.googlegroups.com>
   <REjCh.3361$_73.3@newsread2.news.pas.earthlink.net>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172357541 1084 127.0.0.1 (24 Feb 2007 22:52:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 24 Feb 2007 22:52:21 +0000 (UTC)
In-Reply-To: <REjCh.3361$_73.3@newsread2.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: t69g2000cwt.googlegroups.com; posting-host=204.108.8.5;
   posting-account=zCf1Uw0AAAAC_RNkZf7dTivygQcRNODI
Xref: g2news2.google.com rec.radio.amateur.homebrew:9172

On Feb 19, 10:48 am, Doug Smith W9WI <w...@invalid.invalid> wrote:
> mccleme...@gmail.com wrote:
> > I have been looking around the web for a complete kit for an audio
> > amplifier, for a circuit that I am building that needs to have a wide,
> > flat as possible frequency response (0Hz - 100Khz). Need to be able to
> > bring 400mV up to line level.  I have seen several kits based on a
> > LM386, but I can't find any specs that show that circuit is reliable
> > beyond 20hz - 20Khz.  I am a beginner, so keep that in mind when
> > responding.
>
> What exactly are you trying to do?
>
> 400mV isn't that far from line level going into a computer soundcard.
> Is there a gain, volume, or full-scale adjustment you can make in
> software that'll pull up the signal?
>
> If you do need the gain, as others say a standard op-amp circuit will do
> the trick.  I've found the NE5534 to be a decent low-noise choice.  Stay
> away from the LM386; it's great if you need a bit of audio fast and
> cheap, but that's about all it's good at.
> --
> Doug Smith W9WI
```

> Pleasant View (Nashville), TN EM66http://www.w9wi.com

100Khz band width seems like a lot of overkill to me to be feeding a sound card. Several years ago I built something like is beig asked about using and instumentation grade op amp with a bipolar emiter follower circuit . Negative feedback to the opamp was taken at the output of the amp. Specs on this thing was unbelievable. DC to 500khz(limit of the test equipment) with about 1.5 mv of noise. How I dream of the days of having a bench stock like that to select parts from again. Made a great headphone amp.

BTW, initally used a 741 in the circuit and it had about 5mv of noise. If this OK it could still do the job for you.

```
From -6764153402327377244
X-Google-Thread: 10c2ee,120657984dd7625c
X-Google-Thread: fc8b1,120657984dd7625c
X-Google-Thread: fc2a5,120657984dd7625c
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc06.POSTED!3b5fc0bf!
not-for-mail
From: "Paul P" <paulREMOVE@REMOVEppinyotREMOVE.com>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
References: <PerCh.3042$vu2.1488@trnddc04> <WbPDh.1220$JB2.1177@trnddc07>
<45dfc9dc$0$16393$88260bb3@free.teranews.com>
Subject: FU Hammarlund Testing later this week on FreeWheeler's net.
Lines: 9
Organization: www.ppinyot.com
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <AJ3Eh.339$KE2.242@trnddc06>
Date: Sat, 24 Feb 2007 23:18:56 GMT
NNTP-Posting-Host: 141.151.144.95
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc06 1172359136 141.151.144.95 (Sat, 24 Feb 2007 18:18:56 EST)
NNTP-Posting-Date: Sat, 24 Feb 2007 18:18:56 EST
Xref: g2news2.google.com rec.antiques.radio+phono:47405
rec.radio.amateur.boatanchors:7679 rec.radio.amateur.homebrew:9173
```

If all goes well with the alignment, I should be on next week, with this rig, testing on the FreeWheelers Net 10:30 pm central 3.916 LSB. That band's crystal is working good.

Paul

KB3LZP

```
From -6220604947851697591
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
From: "Stefan Wolfe" <stefan@eml.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
<1172267318.119745.218720@t69g2000cwt.googlegroups.com>
<45df8787$0$28161$4c368faf@roadrunner.com>
<1172303818.483077.293990@8g2000cwh.googlegroups.com>
Subject: Re: Now that CW is gone there will be more ham to non-ham conflicts.
Date: Sat, 24 Feb 2007 19:29:05 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Lines: 18
Message-ID: <45e0d852$0$28102$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:9174
rec.radio.amateur.misc:29502 rec.radio.amateur.policy:66705
```

"terry" <tsanford@nf.sympatico.ca> wrote in message
news:1172303818.483077.293990@8g2000cwh.googlegroups.com...

> Old codgers still using spark
> transmitters and coherer receivers, pounding away in their dimly lit
> shacks late at night and boasting about how many countries they have
> contacted for 500 milliseconds per contact; and please QSL.

Can you imagine that? People could communicate around the world simply by constructing a simple transmitter salvaged from a Model T ignition coil and a receiver contructed of metal filings in a glass tube between antenna and ground and a battery powered relay.

Amazing. Absolutely amazing.

```
From 8373977346739284657
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a75g2000cwd.googlegroups.com!not-for-
mail
From: "tack" <tack1@flash.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: Now that CW is gone there will be more ham to non-ham conflicts.
Date: 24 Feb 2007 17:56:58 -0800
Organization: http://groups.google.com
Lines: 22
Message-ID: <1172368618.311467.184130@a75g2000cwd.googlegroups.com>
References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
   <1172267318.119745.218720@t69g2000cwt.googlegroups.com>
   <45df8787$0$28161$4c368faf@roadrunner.com>
   <1172303818.483077.293990@8g2000cwh.googlegroups.com>
   <45e0d852$0$28102$4c368faf@roadrunner.com>
NNTP-Posting-Host: 70.248.213.29
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172368624 1221 127.0.0.1 (25 Feb 2007 01:57:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 25 Feb 2007 01:57:04 +0000 (UTC)
In-Reply-To: <45e0d852$0$28102$4c368faf@roadrunner.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET
CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
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   posting-account=uKUyGwwAAAAkx11KnifX36YVybIZ6Qe1
Xref: g2news2.google.com rec.radio.amateur.homebrew:9175
rec.radio.amateur.misc:29505 rec.radio.amateur.policy:66720

On Feb 24, 6:29 pm, "Stefan Wolfe" <ste...@eml.com> wrote:
> "terry" <tsanf...@nf.sympatico.ca> wrote in message
>
> news:1172303818.483077.293990@8g2000cwh.googlegroups.com...
>
> > Old codgers still using spark
> > transmitters and coherer receivers, pounding away in their dimly lit
> > shacks late at night and boasting about how many countries they have
> > contacted for 500 milliseconds per contact; and please QSL.
>
> Can you imagine that? People could communicate around the world simply by
> constructing a simple transmitter salvaged from a Model T ignition coil and
> a receiver contructed of metal filings in a glass tube between antenna and
```

> ground and a battery powered relay.
>
> Amazing. Absolutely amazing.

Yes, with the most basic materials; little more than a battery and
some wire, in an emergency or primitive conditions you can communicate
via wireless. But you must have one more thing; gotta have code

From -6912537589284641835
X-Google-Thread: fc2a5,8259303a2f69f348
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 24 Feb 2007 22:22:52 -0600
Date: Sat, 24 Feb 2007 20:23:34 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 813's as Modulators
References: <12toem5go4rou40@corp.supernews.com>
<pJadnSu6Eu5JaUHYnZ2dnUVZ_vCknZ2d@web-ster.com>
<1172286792.835377.32980@q2g2000cwa.googlegroups.com>
In-Reply-To: <1172286792.835377.32980@q2g2000cwa.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <LcqdnTiKWeeBknzYnZ2dnUVZ_vCknZ2d@web-ster.com>
Lines: 88
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yVrgtJYFlerjaSkI9GM+gUx4ugDx0WEapwZUt9PphpVK31cZnNrkzoFWMK7GWhq1Ncap9DcyHuBB!
ngOGxW/E95vf5hjx
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9176

N2EY@AOL.COM wrote:

> On Feb 21, 8:42?pm, Tim Wescott <t...@seemywebsite.com> wrote:
>
>>If I have my numbers right, a peak envelope power of 1500 watts equates
>>to a carrier power of 375 watts, which requires an audio amplifier to

>>put out 200 watts (to round up a bit).
>
>
> Not exactly! You're mixing input and output powers.
>
> Current FCC rules limit us to 1500 watts peak output.
> On AM, that typically works out to 375 watts carrier output.
>
Yes, you're right. Thank you. Hopefully if I were doing this for real
I would have thought of that before it's too late (in fact I have, while
designing fantasy rigs).

> To make the math simple, let's assume our Class C
> plate modulated final stage has 75% efficiency.
> Then we will need to run 500 W DC plate input to get
> 375 watts carrier output, and 1500 watts peak output.
>
> The audio power needed to plate-modulate that 500 watt
> DC input stage is 250 watts - exactly half the DC input.
> More modulator power is OK - it's a good idea to
> figure on 300 watts or so, to allow for various losses,
> and so the modulator tubes aren't running flat out to
> give you 100% modulation.

Right. And that's still modest for a pair of 813s, at least used as
pentodes in class AB-2.
>
> You can easily see how the design could get complicated
> in a hurry. Suppose your Class C modulated stage is
> only 50% efficient, instead of 75%. Then you would need
> 750 watts DC input to the stage to get 375 watts carrier
> output. And you'd need at least 375 watts of audio!

I think at that point I'd decide I needed a better modulated stage,
unless I were operating at UHF.
>
> --
>
> When reading old Handbooks and other amateur
> radio publications, it's important to remember that in
> the past hams rated transmitters by DC input, not output.
> If you build a "100 watt" transmitter from those days and
> expect to get 100 watts of RF from it, you will either be sadly
> disappointed, or will run it way over design ratings
> in order to get those 100 watts.
>
> In the bad old days before 1984, Part 97 simply limited
> US hams to 1000 watts DC plate input to the final. Which
> meant you simply needed 500 or so watts of audio to plate
> modulate a legal-limit AM rig, regardless of efficiency.'
>
> The old rules are one big reason plate modulation was
> the AM method of choice for the Ancient Ones. The

> carrier efficiency of most other AM techniques (grid
> modulation, screen modulation, suppressor modulation,
> cathode modulation, conventional AM linear, etc.) is
> only 30-35%. So for a kilowatt DC input, you could only
> get about 300 watts of carrier output, and you'd need a
> final that could dissipate 700 W!
>
> Under today's rules, the DC plate input doesn't matter -
> only the peak RF output matters.
>
> btw, there's all sorts of tube data info online. No need to
> buy tube manuals anymore unless you are really into paper!
>

The tube manual I quoted is good for two things that you don't get as
easily from the web -- the front pages are a very good text on tube
amplifier design, and you can read it while you're eating your cereal in
the morning. I'm just old enough that I need things on paper -- were I
ten years younger I'd probably not need it at all.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

From 2415249146226851422
X-Google-Thread: 10c2ee,120657984dd7625c
X-Google-Thread: fc8b1,120657984dd7625c
X-Google-Thread: fc2a5,120657984dd7625c
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q2g2000cwa.googlegroups.com!not-for-mail
From: "Steven" <thisjukeboxplays33rpm@yahoo.com>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: FU Hammarlund Testing later this week on FreeWheeler's net.
Date: 25 Feb 2007 00:14:00 -0800
Organization: http://groups.google.com
Lines: 11
Message-ID: <1172391240.601900.266060@q2g2000cwa.googlegroups.com>
References: <PerCh.3042$vu2.1488@trnddc04><WbPDh.1220$JB2.1177@trnddc07>
   <45dfc9dc$0$16393$88260bb3@free.teranews.com>
   <AJ3Eh.339$KE2.242@trnddc06>
NNTP-Posting-Host: 71.221.179.188
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"

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NNTP-Posting-Date: Sun, 25 Feb 2007 08:14:14 +0000 (UTC)
In-Reply-To: <AJ3Eh.339$KE2.242@trnddc06>
User-Agent: G2/1.0
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CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q2g2000cwa.googlegroups.com; posting-host=71.221.179.188;
   posting-account=plHaig0AAACmp1qqzecBcWCjvDIRIL35
Xref: g2news2.google.com rec.antiques.radio+phono:47460
rec.radio.amateur.boatanchors:7680 rec.radio.amateur.homebrew:9177
```

On Feb 24, 4:18 pm, "Paul P" <paulREM...@REMOVEppinyotREMOVE.com>
wrote:

> If all goes well with the alignment, I should be on next week, with this
> rig, testing on the FreeWheelers Net 10:30 pm central 3.916 LSB. That
> band's crystal is working good.
>
> Paul
> KB3LZP

What, besides the other option does FU mean?

```
From 8719208919577614134
X-Google-Thread: 10c2ee,120657984dd7625c
X-Google-Thread: fc8b1,120657984dd7625c
X-Google-Thread: fc2a5,120657984dd7625c
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!
newscon02.news.prodigy.net!prodigy.net!nntp1.roc.gblx.net!nntp.gblx.net!
nntp.gblx.net!newsfeeds.sol.net!216.165.192.91.MISMATCH!posts.news.nationwide.net!
nnrp1.nationwide.net!not-for-mail
From: Dale Carlson <drc@oz.net>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: FU Hammarlund Testing later this week on FreeWheeler's net.
Date: Sun, 25 Feb 2007 02:15:03 -0800
Message-ID: <qao2u2dtkqm36g9iab085fc7eedbsngoca@4ax.com>
References: <PerCh.3042$vu2.1488@trnddc04><WbPDh.1220$JB2.1177@trnddc07>
<45dfc9dc$0$16393$88260bb3@free.teranews.com> <AJ3Eh.339$KE2.242@trnddc06>
<1172391240.601900.266060@q2g2000cwa.googlegroups.com>
X-Newsreader: Forte Agent 1.7/32.534
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 19
Organization: Nationwide Internet
NNTP-Posting-Date: 25 Feb 2007 10:16:07 GMT
NNTP-Posting-Host: bc781838.news.nationwide.net
```

```
X-Trace: DXC=Lha0NUa=Sidb\?i3C^7bJg:U7?Od7_0Cl<?
CS8K4iWVccOh3Ra0[;LlDYd@34kk[DjRURmbi^29\f
X-Complaints-To: abuse-usenet@ticon.net
Xref: g2news2.google.com rec.antiques.radio+phono:47464
rec.radio.amateur.boatanchors:7681 rec.radio.amateur.homebrew:9178

On 25 Feb 2007 00:14:00 -0800, "Steven"
<thisjukeboxplays33rpm@yahoo.com> wrote:

>On Feb 24, 4:18 pm, "Paul P" <paulREM...@REMOVEppinyotREMOVE.com>
>wrote:
>> If all goes well with the alignment, I should be on next week, with this
>> rig, testing on the FreeWheelers Net 10:30 pm central 3.916 LSB.  That
>> band's crystal is working good.
>>
>> Paul
>> KB3LZP
>
>What, besides the other option does FU mean?

LOL. Probably "follow-up", or maybe "full-up" testing...

Dale

I have plenty of FU boatanchors :)


From -2757627047682330348
X-Google-Thread: 10c2ee,120657984dd7625c
X-Google-Thread: fc8b1,120657984dd7625c
X-Google-Thread: fc2a5,120657984dd7625c
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p10g2000cwp.googlegroups.com!not-for-
mail
From: "Steven" <thisjukeboxplays33rpm@yahoo.com>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: FU Hammarlund Testing later this week on FreeWheeler's net.
Date: 25 Feb 2007 03:47:21 -0800
Organization: http://groups.google.com
Lines: 23
Message-ID: <1172404041.239819.146720@p10g2000cwp.googlegroups.com>
References: <PerCh.3042$vu2.1488@trnddc04>
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   <AJ3Eh.339$KE2.242@trnddc06>
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X-Trace: posting.google.com 1172404047 18291 127.0.0.1 (25 Feb 2007 11:47:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 25 Feb 2007 11:47:27 +0000 (UTC)
In-Reply-To: <qao2u2dtkqm36g9iab085fc7eedbsngoca@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET
CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p10g2000cwp.googlegroups.com; posting-host=71.221.179.188;
   posting-account=plHaig0AAACmp1qqzecBcWCjvDIRIL35
Xref: g2news2.google.com rec.antiques.radio+phono:47465
rec.radio.amateur.boatanchors:7682 rec.radio.amateur.homebrew:9179

On Feb 25, 3:15 am, Dale Carlson <d...@oz.net> wrote:
> On 25 Feb 2007 00:14:00 -0800, "Steven"
>
> <thisjukeboxplays33...@yahoo.com> wrote:
> >On Feb 24, 4:18 pm, "Paul P" <paulREM...@REMOVEppinyotREMOVE.com>
> >wrote:
> >> If all goes well with the alignment, I should be on next week, with this
> >> rig, testing on the FreeWheelers Net 10:30 pm central 3.916 LSB.  That
> >> band's crystal is working good.
>
> >> Paul
> >> KB3LZP
>
> >What, besides the other option does FU mean?
>
> LOL. Probably "follow-up", or maybe "full-up" testing...
>
> Dale
>
> I have plenty of FU boatanchors :)

Not the -BAR kind I hope.



From 9130810711015031170
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!newshub.sdsu.edu!elnk-
nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!b26dd86c!not-for-mail
From: Billy Smith <chungkingchungking@yahoo.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.13) Gecko/
20060414
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: Now that CW is gone there will be more ham to non-ham conflicts.
```

References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
<1172267318.119745.218720@t69g2000cwt.googlegroups.com>
<45df8787$0$28161$4c368faf@roadrunner.com>
<1172303818.483077.293990@8g2000cwh.googlegroups.com>
<N6OdnYlWMeu52X3YnZ2dnUVZ_urinZ2d@comcast.com>
In-Reply-To: <N6OdnYlWMeu52X3YnZ2dnUVZ_urinZ2d@comcast.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 41
Message-ID: <2ofEh.5556$_73.4898@newsread2.news.pas.earthlink.net>
Date: Sun, 25 Feb 2007 12:35:10 GMT
NNTP-Posting-Host: 4.225.2.216
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1172406910 4.225.2.216 (Sun, 25 Feb 2007 04:35:10 PST)
NNTP-Posting-Date: Sun, 25 Feb 2007 04:35:10 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:9180
rec.radio.amateur.misc:29518 rec.radio.amateur.policy:66751

NoMoreSpam wrote:

> terry wrote:
>
>> On Feb 23, 9:32 pm, "Stefan Wolfe" <ste...@eml.com> wrote:
>>
>>> I think it would have been sufficient to punctuate your sentence with
>>> just 3
>>> question marks. Four question marks seems a bit excessive, agree???
>>
>>
>> Nah. The number of question marks is immaterial and avoids the
>> contentious and intolerant (rant?) of the OP. Such comments very
>> divisive to the the Amateur Radio hobby; IMHO.
>>
>> Might one not think such an intolerant (possibly also an elitist?)
>> attitude by a serving (already licensed) radio amateur does not augur
>> well for the future of the hobby. Not sure as a newcomer I'd want to
>> join a group with members who have that 'unkind' attitude!
>>
>> Previously noticing some other intolerant (even vituperative) comments
>> would not be surprised they may tend to give outsiders a view of an
>> outdated, closed knit clan/society. Old codgers still using spark
>> transmitters and coherer receivers, pounding away in their dimly lit
>> shacks late at night and boasting about how many countries they have
>> contacted for 500 milliseconds per contact; and please QSL.
>>
>> QSLs via the Internet these days I presume?
>>
>> Total four (4) question marks; used one at a time!
>>
>> Rather than portray Amateur Radio as open, welcoming to younger
>> newcomers and new modes of communication/trends.

```
>>
>> No wonder the hobby is, in the opinion of some, dying?
>>
> RIGHT, don't be an "elitist." Be a moron like the rest of the no-coders
> so you will fit in.

As far as a moron you should best look at yourself. You would fit the
bill of an uneducated piece of trash.


From -4279107899421646709
X-Google-Thread: fc2a5,8259303a2f69f348
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!elnk-atl-nf1!
newsfeed.earthlink.net!bigfeed2.bellsouth.net!bigfeed.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews1.bellsouth.net.POSTED!ef55a73e!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 813's as Modulators
References: <12toem5go4rou40@corp.supernews.com>
<1172151717.472484.205960@q2g2000cwa.googlegroups.com>
<1trDh.21783$6a.18645@bignews4.bellsouth.net>
<1172242454.980926.39190@t69g2000cwt.googlegroups.com>
In-Reply-To: <1172242454.980926.39190@t69g2000cwt.googlegroups.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 64
Message-ID: <6oiEh.11477$e8.9401@bignews1.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
pcpocbcnbdmdhgfgdbdpiflmbcekedmfhojhikkbagflhcbofkpjeegjgnhnkdncifjefekjjlmbpcfcad
kiikoknopgfaanmnkcpgpemfgbdgeaocdddnhcjikclpmlheicbofnbepgjeoncnpdjnlfiihalnbd
NNTP-Posting-Date: Sun, 25 Feb 2007 11:00:02 EST
Organization: BellSouth Internet Group
Date: Sun, 25 Feb 2007 11:00:14 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:9181

Tim Shoppa wrote:
> On Feb 22, 8:35 pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
>> TimShoppawrote:
>>> On Feb 21, 7:27 am, Jack Schmidling <a...@mc.net> wrote:
>>>> My new (first one in 50 years) is an 8000 modulated by a pair of 813's
>>>> running as triodes. The RF deck and Pw supply are up and running and I
>>>> am working on the modulator now.
>>>> My plans are to drive it with the Ranger and eventually do a stand alone
>>>> audio section.  The Range gets poor audio reports in spite of months of
```

>>>> trying to resolve it.
>>>> I am wondering if anyone here as any experience using 813's as triodes
>>>> and would also like some help on the audio driver.
>>> My sole experience is using them not in triode mode, but in pentode
>>> mode. The RCA specs tell about using a pair in AB1 as a modulator.
>>> Specs here:
>>> http://www.mif.pg.gda.pl/homepages/frank/sheets/079/8/813.pdf
>>> In triode mode (plate connected to screen) you'd be limited to 750
>>> volts on the plate if you follow the spec sheet religiously, which
>>> will really hurt you in terms of AF power ability. I'm guessing that a
>>> pair of 813's used this way would not put out more than 120W of audio
>>> power. Many beam power tubes will take more volts on the screen than
>>> the spec sheet will say without arcing over but I cannot tell you
>>> about this mode on an 813.
>>> In pentode mode you have to do a fairly stiff screen supply (which you
>>> might have elsewhere in your line-up). Don't forget the -80V or so
>>> grid bias too.
>>> The "classic" way of doing all this is with a pair or maybe two pairs
>>> of 811A's, which are zero-bias as a class B modulator. You can easily
>>> get 250W of audio out of a pair or 500W out of two pairs. Driving
>>> power isn't zero but it's very moderate (less than 10 watts).
>>> The tubes for all this is easy - but you've got a modulation
>>> transformer lined up already? Choosing impedances to match that
>>> transformer is probably more relevant than any dickering about tubes.
>>> Tim.
>> A better way to use the 813 in triode mode is to connect the two grids
>> together. This creates a HI-MU zero bias triode.
>
> My experiments at audio have shown that this mode causes more non-
> linearity than simple pentode mode. But... maybe not anymore than
> you'd get from a similar-sized high-mu zero bias triode, as those are
> fairly nonlinear too!
>
> My experiments were with much smaller tubes (807's and 6L6's and the
> like) than the 813's we're talking about here. Most of the extant
> SPICE models do pretty bad when you tie the screen and control grid
> together (not surprising!)
>
> Tim.
>

The problem with 807/6L6's in zero bias is that the suppressor cage is grounded to the cathode and messes things up. With the 813 you can connect the suppressor to the plate and the two grids together (or connect the suppressor to the grids). One way or the other will work better than grounding the suppressor.

There have been triode circuits using the 807/6L6/1625 or even sweep tubes (such as the 6AV5) in which G1 was tied to G2 with a resistor so G2 was driven harder than G1. One circuit used a dual cathode follower driver with a center tapped choke to provide a low resistance ground for the grids (actually used one winding of an interstage transformer).

A member of a radio club I was in years ago built a high power two meter

AM rig using a 5894 final modulated by a pair of 6AV5GA's in such a
circuit. It always got glowing reports on audio quality.

From 3741212105146871109
X-Google-Thread: fc2a5,8259303a2f69f348
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews1.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 813's as Modulators
References: <12toem5go4rou40@corp.supernews.com>
<1172151717.472484.205960@q2g2000cwa.googlegroups.com>
In-Reply-To: <1172151717.472484.205960@q2g2000cwa.googlegroups.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 46
Message-ID: <9uiEh.11480$e8.3541@bignews1.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
pcpocbcnbdmdhgfgdbdpiflmbcekedmfhojhikkbagflhcbojompdecbpgkchmjejejhokdcpgjfeddjad
kiikoknopgfaanmnkcpgpemfgbdgeaocdddnhcjikclpmlgadkcjapdlpfjppecnpdjnlfiihalnbd
NNTP-Posting-Date: Sun, 25 Feb 2007 11:06:29 EST
Organization: BellSouth Internet Group
Date: Sun, 25 Feb 2007 11:06:41 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:9182

Tim Shoppa wrote:
> On Feb 21, 7:27 am, Jack Schmidling <a...@mc.net> wrote:
>> My new (first one in 50 years) is an 8000 modulated by a pair of 813's
>> running as triodes. The RF deck and Pw supply are up and running and I
>> am working on the modulator now.
>>
>> My plans are to drive it with the Ranger and eventually do a stand alone
>> audio section. The Range gets poor audio reports in spite of months of
>> trying to resolve it.
>>
>> I am wondering if anyone here as any experience using 813's as triodes
>> and would also like some help on the audio driver.
>
> My sole experience is using them not in triode mode, but in pentode
> mode. The RCA specs tell about using a pair in AB1 as a modulator.
> Specs here:
>
>   http://www.mif.pg.gda.pl/homepages/frank/sheets/079/8/813.pdf
>

> In triode mode (plate connected to screen) you'd be limited to 750
> volts on the plate if you follow the spec sheet religiously, which
> will really hurt you in terms of AF power ability. I'm guessing that a
> pair of 813's used this way would not put out more than 120W of audio
> power. Many beam power tubes will take more volts on the screen than
> the spec sheet will say without arcing over but I cannot tell you
> about this mode on an 813.
>
> In pentode mode you have to do a fairly stiff screen supply (which you
> might have elsewhere in your line-up). Don't forget the -80V or so
> grid bias too.
>
> The "classic" way of doing all this is with a pair or maybe two pairs
> of 811A's, which are zero-bias as a class B modulator. You can easily
> get 250W of audio out of a pair or 500W out of two pairs. Driving
> power isn't zero but it's very moderate (less than 10 watts).
>
> The tubes for all this is easy - but you've got a modulation
> transformer lined up already? Choosing impedances to match that
> transformer is probably more relevant than any dickering about tubes.
>
> Tim.
>

BTW I have 5 or 6 used 813's in the junk box gathering dust. I'd like
to keep one for static display and the rest are available for nominal
cost and shipping. If anybody can use them let me know. I'll also take
2 or 3 good 811A's in trade.

From 3622669022331742172
X-Google-Thread: fc2a5,da7c8f08292bca4d,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!newsfeed.utanet.at!news-hub.siol.net!newsfeed.t-com.hr!news3.t-com.hr!not-for-mail
From: "Juka" <juraj.slat@ka.htnet.hr>
Newsgroups: rec.radio.amateur.homebrew
Subject: midland 70-165-16b
Date: Sun, 25 Feb 2007 20:51:52 +0100
Organization: T-Com
Lines: 4
Message-ID: <erspbd$ima$6@ss408.t-com.hr>
NNTP-Posting-Host: 89-172-248-207.adsl.net.t-com.hr
X-Trace: ss408.t-com.hr 1172433069 19146 89.172.248.207 (25 Feb 2007 19:51:09 GMT)
X-Complaints-To: abuse@t-com.hr
NNTP-Posting-Date: Sun, 25 Feb 2007 19:51:09 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Xref: g2news2.google.com rec.radio.amateur.homebrew:9183

I am in need of programming information for a Midland 70-165-16B VHF handheld. Also need programming interface schematic. Thanks in advance!

```
From -8726715821183363767
X-Google-Thread: fc2a5,e4196acee38495b9,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 25 Feb 2007 17:38:48 -0600
From: "George Kavanagh" <gk05XspamX@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: 8558B
Date: Sun, 25 Feb 2007 18:38:51 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <acadnZnZRouVg3_YnZ2dnUVZ_qOpnZ2d@comcast.com>
Lines: 11
NNTP-Posting-Host: 24.61.245.200
X-Trace: sv3-
iC1CjYdzHZLyjyTo4W4JFeUlglTjIHY2A1i9Kn9qzyVt7rP5XGzQ31RXAyxW45t3pdzL22F/kwERFI7!
HTZk59HXEDoxHDU9eipMyq6wPLECx2kiNjzmbyh/00pN1dRlO4tqxCLzYomeRjFkzlJ4h1uD8TC4!
4RfXByke
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9184
```

Have an 8558B (Serial # prefix=2332A) that seems to work fine except that it indicates ~ 30 dbm low. Any suggestions as t what might be the cause?

I suspect the U1 diode pair in the 1st LO. 1) How to test same? 2) appropriate replacement diodes if indeed they are bad?

Please advise

-georgeK KB1HFT

```
From -4828275576448567181
X-Google-Thread: 10c2ee,120657984dd7625c
```

```
X-Google-Thread: fc8b1,120657984dd7625c
X-Google-Thread: fc2a5,120657984dd7625c
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc08.POSTED!3b5fc0bf!not-for-mail
From: "Paul P" <paulREMOVE@REMOVEppinyotREMOVE.com>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
References: <PerCh.3042$vu2.1488@trnddc04><WbPDh.1220$JB2.1177@trnddc07>
<45dfc9dc$0$16393$88260bb3@free.teranews.com>   <AJ3Eh.339$KE2.242@trnddc06>
<1172391240.601900.266060@q2g2000cwa.googlegroups.com>
Subject: Re: FU Hammarlund Testing later this week on FreeWheeler's net.
Lines: 20
Organization: www.ppinyot.com
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <NMpEh.1714$N63.491@trnddc08>
Date: Mon, 26 Feb 2007 00:24:13 GMT
NNTP-Posting-Host: 141.151.144.95
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc08 1172449453 141.151.144.95 (Sun, 25 Feb 2007 19:24:13 EST)
NNTP-Posting-Date: Sun, 25 Feb 2007 19:24:13 EST
Xref: g2news2.google.com rec.antiques.radio+phono:47516
rec.radio.amateur.boatanchors:7695 rec.radio.amateur.homebrew:9185
```

Follow Up. Perhaps I should have spelled it out. :~)

PP

"Steven" <thisjukeboxplays33rpm@yahoo.com> wrote in message
news:1172391240.601900.266060@q2g2000cwa.googlegroups.com...

> On Feb 24, 4:18 pm, "Paul P" <paulREM...@REMOVEppinyotREMOVE.com>
> wrote:
>> If all goes well with the alignment, I should be on next week, with this
>> rig, testing on the FreeWheelers Net 10:30 pm central 3.916 LSB. That
>> band's crystal is working good.
>>
>> Paul
>> KB3LZP
>
> What, besides the other option does FU mean?
>

From -8987249458214390507

```
X-Google-Thread: fc2a5,8259303a2f69f348
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!z35g2000cwz.googlegroups.com!not-for-
mail
From: N2EY@AOL.COM
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 813's as Modulators
Date: 25 Feb 2007 17:05:54 -0800
Organization: http://groups.google.com
Lines: 149
Message-ID: <1172451954.828939.270970@z35g2000cwz.googlegroups.com>
References: <12toem5go4rou40@corp.supernews.com>
   <pJadnSu6Eu5JaUHYnZ2dnUVZ_vCknZ2d@web-ster.com>
   <1172286792.835377.32980@q2g2000cwa.googlegroups.com>
   <LcqdnTiKWeeBknzYnZ2dnUVZ_vCknZ2d@web-ster.com>
NNTP-Posting-Host: 152.163.100.11
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1172451964 6864 127.0.0.1 (26 Feb 2007 01:06:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 26 Feb 2007 01:06:04 +0000 (UTC)
In-Reply-To: <LcqdnTiKWeeBknzYnZ2dnUVZ_vCknZ2d@web-ster.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 Turboweb [rtc-ta061 8.4.1], HTTP/1.1 cache-rtc-
aa07.proxy.aol.com[98A3640B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: z35g2000cwz.googlegroups.com; posting-host=152.163.100.11;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news2.google.com rec.radio.amateur.homebrew:9186

On Feb 24, 11:23=EF=BF=BDpm, Tim Wescott <t...@seemywebsite.com> wrote:
> N...@AOL.COM wrote:
> > On Feb 21, 8:42?pm, Tim Wescott <t...@seemywebsite.com> wrote:
>
> >>If I have my numbers right, a peak envelope power of 1500 watts equates
> >>to a carrier power of 375 watts, which requires an audio amplifier to
> >>put out 200 watts (to round up a bit).
>
> > Not exactly! You're mixing input and output powers.
>
> > Current FCC rules limit us to 1500 watts peak output.
> > On AM, that typically works out to 375 watts carrier output.
>
> Yes, you're right. =A0Thank you.

You're welcome!

>=A0Hopefully if I were doing this for real
> I would have thought of that before it's too late (in fact I have, while
```

> designing fantasy rigs).

Works for me!

> > To make the math simple, let's assume our Class C
> > plate modulated final stage has 75% efficiency.
> > Then we will need to run 500 W DC plate input to get
> > 375 watts carrier output, and 1500 watts peak output.
>
> > The audio power needed to plate-modulate that 500 watt
> > DC input stage is 250 watts - exactly half the DC input.
> > More modulator power is OK - it's a good idea to
> > figure on 300 watts or so, to allow for various losses,
> > and so the modulator tubes aren't running flat out to
> > give you 100% modulation.
>
> Right. =A0And that's still modest for a pair of 813s, at least used as
> pentodes in class AB-2.

Agreed - in fact, maybe even in AB1!

A pair of 813s in full-yellow pushpull Class B audio service
can deliver 650 watts of audio, according to my 1948
ARRL Handbook. With just 0.35 watts of driving power.

I think the main reason the Ancient Ones used triodes
in their modulators so much was to avoid the problems
of a screen supply and a bias supply. Since they were
building a separate speech amplifier anyway, building
one that delivered 10 watts or so wasn't much different than
building one that delivered a watt or so.

Two articles of interest:

In QST for November, 1958, is "Medium to High Power Audio from 813s".
A modulator using 813s in pushpull AB is described. It is really quite
simple, too.

The bias supply is just a halfwave rectifier feeding a 0B3/VR90.
Screen supply is obtained from the plate supply with good regulation
and without a humongous power resistor by using a 211 triode as a
series regulator, and a string of NE-2s for reference.

This series regulator setup has a lot of advantages. The screen supply
is regulated, there's no enormous dropping
resistor, and most component failures result in a loss of screen
voltage rather than excessive screen voltage or screen voltage without
plate voltage. But you need a big
triode for the pass tube, with a well-insulated transformer to
light it.

According to the article, a pair of 813s in AB1 will provide 260 watts
at 1500 volts B+, or 335 watts at 2000 volts B+ - with *no* driving

power!

In AB2, it says you can get 455 watts at 2000 volts and 650 watts at 2500 volts, with less than a watt of audio drive.

There is also a "peak extension circuit", which is a form of supermodulation by limiting the negative modulation percentage. Such a system was a big deal in 1958, but if
you use one today, the carrier power has to be *decreased* to stay legal! Hardly seems worth the trouble.

Another interesting article is from QST for March, 1948. "500 Watts of Audio from AB1" shows a modulator
that ends up with a pair of 4-250As - driven by a pair of 6SJ7s in a phase inverter! Speech amplifier, mod iron, screen regulator VR string, bias and low voltage supplies are all on the one 17x13x3 chassis...all you need is 2500 volts for the 4-250As.

The only transformer in the audio chain is the modulation transformer - all other stages are resistance-coupled. The speech amp is just four tubes - 6SJ7 mike amp, 6J5 2nd audio, pair of 6SJ7s phase inverter.

> > You can easily see how the design could get complicated
> > in a hurry. Suppose your Class C modulated stage is
> > only 50% efficient, instead of 75%. Then you would need
> > 750 watts DC input to the stage to get 375 watts carrier
> > output. And you'd need at least 375 watts of audio!
>
> I think at that point I'd decide I needed a better modulated stage,
> unless I were operating at UHF.

I chose 50% to make the math simple and to illustrate the point. And it's easy to get less than 75% efficiency in real life when a rig has certain compromises, like trying to cover 160 through 10 with tubes that have lots of output C.

> > --

> > When reading old Handbooks and other amateur
> > radio publications, it's important to remember that in
> > the past hams rated transmitters by DC input, not output.
> > If you build a "100 watt" transmitter from those days and
> > expect to get 100 watts of RF from it, you will either be sadly
> > disappointed, or will run it way over design ratings
> > in order to get those 100 watts.
>
> > In the bad old days before 1984, Part 97 simply limited
> > US hams to 1000 watts DC plate input to the final. Which
> > meant you simply needed 500 or so watts of audio to plate
> > modulate a legal-limit AM rig, regardless of efficiency.'
>
> > The old rules are one big reason plate modulation was
> > the AM method of choice for the Ancient Ones. The

> > carrier efficiency of most other AM techniques (grid
> > modulation, screen modulation, suppressor modulation,
> > cathode modulation, conventional AM linear, etc.) is
> > only 30-35%. So for a kilowatt DC input, you could only
> > get about 300 watts of carrier output, and you'd need a
> > final that could dissipate 700 W!
>
> > Under today's rules, the DC plate input doesn't matter -
> > only the peak RF output matters.
>
> > btw, there's all sorts of tube data info online. No need to
> > buy tube manuals anymore unless you are really into paper!
>
> The tube manual I quoted is good for two things that you don't get as
> easily from the web -- the front pages are a very good text on tube
> amplifier design, and you can read it while you're eating your cereal in
> the morning. =A0I'm just old enough that I need things on paper -- were I
> ten years younger I'd probably not need it at all.

As one who is "really into paper", I agree. Google my
call to see part of the library...

73 de Jim, N2EY

From 2612134636585969697
X-Google-Thread: 10c2ee,120657984dd7625c
X-Google-Thread: fc8b1,120657984dd7625c
X-Google-Thread: fc2a5,120657984dd7625c
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h3g2000cwc.googlegroups.com!not-for-mail
From: "Steven" <thisjukeboxplays33rpm@yahoo.com>
Newsgroups: rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: FU Hammarlund Testing later this week on FreeWheeler's net.
Date: 25 Feb 2007 17:32:03 -0800
Organization: http://groups.google.com
Lines: 8
Message-ID: <1172453523.538421.104610@h3g2000cwc.googlegroups.com>
References: <PerCh.3042$vu2.1488@trnddc04>
   <45dfc9dc$0$16393$88260bb3@free.teranews.com>
   <AJ3Eh.339$KE2.242@trnddc06>
   <1172391240.601900.266060@q2g2000cwa.googlegroups.com>
   <NMpEh.1714$N63.491@trnddc08>
NNTP-Posting-Host: 71.221.185.26
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172453529 10800 127.0.0.1 (26 Feb 2007 01:32:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 26 Feb 2007 01:32:09 +0000 (UTC)

In-Reply-To: <NMpEh.1714$N63.491@trnddc08>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h3g2000cwc.googlegroups.com; posting-host=71.221.185.26;
   posting-account=plHaig0AAACmp1qqzecBcWCjvDIRIL35
Xref: g2news2.google.com rec.antiques.radio+phono:47527
rec.radio.amateur.boatanchors:7697 rec.radio.amateur.homebrew:9187

On Feb 25, 5:24 pm, "Paul P" <paulREM...@REMOVEppinyotREMOVE.com>
wrote:
> Follow Up. Perhaps I should have spelled it out. :~)
>
> PP

Thank goodness I never have to find a phone book to call 911 LOL

From 5234483677321250146
X-Google-Thread: fc2a5,cfa0995827c82c82,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!newsfeeds.ihug.co.nz!ihug.co.nz!ken-transit.news.telstra.net!lon-in.news.telstra.net!news.telstra.net!news-server.bigpond.net.au!53ab2750!not-for-mail
From: David <dhuisman@bigpond.net.au>
Reply-To: dhuisman@bigpond.net.au
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Need help with antenna issue
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 36
Message-ID: <FRuEh.3759$8U4.1425@news-server.bigpond.net.au>
Date: Mon, 26 Feb 2007 06:10:45 GMT
NNTP-Posting-Host: 60.228.148.116
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1172470245 60.228.148.116 (Mon, 26 Feb 2007 17:10:45 EST)
NNTP-Posting-Date: Mon, 26 Feb 2007 17:10:45 EST
Organization: BigPond Internet Services
Xref: g2news2.google.com rec.radio.amateur.homebrew:9188

I have just completed the design of a 151 MHz ASK transceiver.

On the bench the unit works fine with sensitivity to around -115 dBm
however, when I attach an antenna, the RSSI level increases dramatically
and it appears something may have become unstable.

I have tried a commercial ground independent antenna and a 1/4 wave whip and the results are the same.

If I disconnect the antenna and leave the RF input floating, it behaves properly. I can also attach a small wire (say 300mm) directly to the RF input and it also works fine. It just plays up when I have a proper antenna connected.

I am not sure if this may be some issue with the VSWR of the antenna causing some instability (I tried a 3dB pad between RF input and antenna and this did not fix the problem), or whether the input is so sensitive that it is picking up the LO from the radio and causing regeneration ?

A Spectrum Analyser was used to determine if anything else is being transmitted in that region and it appears to be clear to well outside the bandwidth of my receiver.

Any ideas much appreciated for what might be happening or methods of debugging my design.
(The circuit consists of an RF switch after the Antenna port (selects TX/RX) then into a 50 Ohm RF Amp, followed by a tuned circuit into an SA6505 RF IF. The LO is crystal based harmonic Butler emitter follower.

PS. I also tried bypassing the RF Amp but still no improvement.

Thanks in advance

Regards

David

From -578980496551172833
X-Google-Thread: fc2a5,cfa0995827c82c82
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!wns14feed!
worldnet.att.net!63.218.45.10!nx01.iad01.newshosting.com!newshosting.com!
newsfeed.icl.net!newsfeed.fjserv.net!newsfeed.freenet.de!213.132.189.2.MISMATCH!
multikabel.net!feed20.multikabel.net!txtfeed2.tudelft.nl!tudelft.nl!
binfeed1.tudelft.nl!border1.nntp.ams.giganews.com!nntp.giganews.com!
feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need help with antenna issue
Message-ID: <vv15u25psoui40g646qm3o2nt1uj9gvb3g@4ax.com>
References: <FRuEh.3759$8U4.1425@news-server.bigpond.net.au>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 35
Date: Mon, 26 Feb 2007 09:23:33 +0200

NNTP-Posting-Host: 195.197.6.122
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1172474535 195.197.6.122 (Mon, 26 Feb 2007 09:22:15 EET)
NNTP-Posting-Date: Mon, 26 Feb 2007 09:22:15 EET
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:9189

On Mon, 26 Feb 2007 06:10:45 GMT, David <dhuisman@bigpond.net.au>
wrote:

>I have just completed the design of a 151 MHz ASK transceiver.

>I am not sure if this may be some issue with the VSWR of the antenna
>causing some instability (I tried a 3dB pad between RF input and antenna
>and this did not fix the problem), or whether the input is so sensitive
>that it is picking up the LO from the radio and causing regeneration ?

If you suspect stability issues, you might try connecting a variable
resistor and variable capacitor to the input and try to check various
settings to see, if you can repeat the situation without the antenna.

>A Spectrum Analyser was used to determine if anything else is being
>transmitted in that region and it appears to be clear to well outside
>the bandwidth of my receiver.

Depending on your location, the band noise level at 150 MHz may be
well above the thermal noise from a simple resistor. How well is the
spectrum analyzer calibrated ? Did you get the reading for a 50 ohm
terminator resistor at the input and then compare the band noise with
the 1/4 wavelength antenna ?

>Any ideas much appreciated for what might be happening or methods of
>debugging my design.
>(The circuit consists of an RF switch after the Antenna port (selects
>TX/RX) then into a 50 Ohm RF Amp, followed by a tuned circuit into an
>SA6505 RF IF. The LO is crystal based harmonic Butler emitter follower.

"50 ohm RF amp" sounds like some MMIC, such as the MAR-x series. I
hope that you are not using MAR-8, which is not 50/50 ohms in/out :-).

Paul OH3LWR

From 1850473187525370609
X-Google-Thread: fc2a5,80633577b06ab72f,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny08.POSTED!fc6769af!not-for-mail
From: "Spin" <noemail@alone.invalid>

Newsgroups: rec.radio.amateur.homebrew
Subject: Electret Condenser Mic Question
Lines: 5
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <88zEh.14108$sv6.184@trndny08>
Date: Mon, 26 Feb 2007 11:03:32 GMT
NNTP-Posting-Host: 71.248.72.157
X-Complaints-To: abuse@verizon.net
X-Trace: trndny08 1172487812 71.248.72.157 (Mon, 26 Feb 2007 06:03:32 EST)
NNTP-Posting-Date: Mon, 26 Feb 2007 06:03:32 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:9190

I have a headset electret condenser mic that has a low frequency response.
Other than changing the element is there a means of getting a higher
frequency response?

From -450350695063476225
X-Google-Thread: fc2a5,80633577b06ab72f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: quandong nut <me@privacy.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Electret Condenser Mic Question
Date: Mon, 26 Feb 2007 21:07:25 +0800
Message-ID: <uqm5u2hh01hf6qdrbco0oarb98gd2t2idc@4ax.com>
References: <88zEh.14108$sv6.184@trndny08>
X-Newsreader: Forte Free Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: dsl-220-235-172-149.wa.westnet.com.au
X-Trace: quokka.wn.com.au 1172491486 220.235.172.149 (26 Feb 2007 21:04:46 +0800)
Lines: 7
X-Complaints-To: abuse@westnet.com.au
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!
feed.cgocable.net!feeder2.on.meganewsservers.com!meganewsservers.com!
textfeed1.on.meganewsservers.com!quokka.wn.com.au!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:9191

On Mon, 26 Feb 2007 11:03:32 GMT, "Spin" <noemail@alone.invalid> wrote:

>I have a headset electret condenser mic that has a low frequency response.
>Other than changing the element is there a means of getting a higher
>frequency response?

Optimise the series (DC blocking) capacitor in the amp input.

```
From 8385878942901724837
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q2g2000cwa.googlegroups.com!not-for-
mail
From: "ORALFIXATION6996" <w_reynolds@rogers.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: Now that CW is gone there will be more ham to non-ham conflicts.
Date: 26 Feb 2007 06:36:50 -0800
Organization: http://groups.google.com
Lines: 57
Message-ID: <1172500609.961208.223080@q2g2000cwa.googlegroups.com>
References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
   <1172267318.119745.218720@t69g2000cwt.googlegroups.com>
   <45df8787$0$28161$4c368faf@roadrunner.com>
   <1172303818.483077.293990@8g2000cwh.googlegroups.com>
   <N6OdnYlWMeu52X3YnZ2dnUVZ_urinZ2d@comcast.com>
   <2ofEh.5556$_73.4898@newsread2.news.pas.earthlink.net>
NNTP-Posting-Host: 74.110.242.54
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172500625 30004 127.0.0.1 (26 Feb 2007 14:37:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 26 Feb 2007 14:37:05 +0000 (UTC)
In-Reply-To: <2ofEh.5556$_73.4898@newsread2.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1; .NET
CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q2g2000cwa.googlegroups.com; posting-host=74.110.242.54;
   posting-account=2NQ5VA0AAACiczMFOuaZThptVvn-XK01
Xref: g2news2.google.com rec.radio.amateur.homebrew:9192
rec.radio.amateur.misc:29554 rec.radio.amateur.policy:66891
```

On Feb 25, 7:35 am, Billy Smith <chungkingchungk...@yahoo.com> wrote:

> NoMoreSpam wrote:
> > terry wrote:
>
> >> On Feb 23, 9:32 pm, "Stefan Wolfe" <ste...@eml.com> wrote:
>
> >>> I think it would have been sufficient to punctuate your sentence with
> >>> just 3
> >>> question marks. Four question marks seems a bit excessive, agree???
>
> >> Nah. The number of question marks is immaterial and avoids the
> >> contentious and intolerant (rant?) of the OP. Such comments very

> >> divisive to the the Amateur Radio hobby; IMHO.
>
> >> Might one not think such an intolerant (possibly also an elitist?)
> >> attitude by a serving (already licensed) radio amateur does not augur
> >> well for the future of the hobby. Not sure as a newcomer I'd want to
> >> join a group with members who have that 'unkind' attitude!
>
> >> Previously noticing some other intolerant (even vituperative) comments
> >> would not be surprised they may tend to give outsiders a view of an
> >> outdated, closed knit clan/society. Old codgers still using spark
> >> transmitters and coherer receivers, pounding away in their dimly lit
> >> shacks late at night and boasting about how many countries they have
> >> contacted for 500 milliseconds per contact; and please QSL.
>
> >> QSLs via the Internet these days I presume?
>
> >> Total four (4) question marks; used one at a time!
>
> >> Rather than portray Amateur Radio as open, welcoming to younger
> >> newcomers and new modes of communication/trends.
>
> >> No wonder the hobby is, in the opinion of some, dying?
>
> > RIGHT, don't be an "elitist." Be a moron like the rest of the no-coders
> > so you will fit in.
>
> As far as a moron you should best look at yourself. You would fit the
> bill of an uneducated piece of trash.- Hide quoted text -
>
> - Show quoted text -

I`ve been a Ham since 1975 and seen this kind of talk before. You 2 are the ones destroying Ham Radio. Yes ham radio is alive but not well. The numbers are dropping and the age of us Hams are getting older. Soon if we don`t attract younger people in it will be a dying hobby. Code is important yes but not totally necessary. There are other ways of encouraging young people to become hams. Code can be part of it as well as the computer end. Why not be like the Boy Scouts have HAm Radio clubs in schools from grades 1 and up and in churches or the YMCA/YWCA with volunteers.

Rather than bash each others heads and stoop so low as calling each other names why not put your heads together and think of positive ways to bring new people into the fold !

From -3859604893398809723
X-Google-Thread: fc2a5,cfa0995827c82c82
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!

newshosting.com!post01.iad01!roadrunner.com!not-for-mail
Message-ID: <45E31D5F.9050101@nettally.com>
Date: Mon, 26 Feb 2007 12:48:15 -0500
From: **THE-RFI-EMI-GUY** <rhyolite@nettally.com>
Organization: Central Scrutinizer
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To: dhuisman@bigpond.net.au
Subject: Re: Need help with antenna issue
References: <FRuEh.3759$8U4.1425@news-server.bigpond.net.au>
In-Reply-To: <FRuEh.3759$8U4.1425@news-server.bigpond.net.au>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 61
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:9193

It could be that there are local signals in the band which are overloading the receiver and the receiver lacks selectivity to discriminate between on and off channel signals.Or an IF image response is reacting to a specific interferer. Have you tried tesing inside of a shielded screen room (faraday cage)? Secondly, the gain of the circuit could exceed the shielding and grounding of the circuit layout, thus feeding back from circuit to antenna. In this case, assuming a 50 ohm circuitry, extend the antenna with a length of low loss coaxial cable away from the circuitry, put the circuit in a shielded box with appropriate feedthroughs, and check for interaction.

David wrote:

> I have just completed the design of a 151 MHz ASK transceiver.
>
> On the bench the unit works fine with sensitivity to around -115 dBm however, when I attach an antenna, the RSSI level increases dramatically and it appears something may have become unstable.
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> SA6505 RF IF. The LO is crystal based harmonic Butler emitter follower.
>
> PS. I also tried bypassing the RF Amp but still no improvement.
>
> Thanks in advance
>
> Regards
>
> David

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From 5177565085193554131
X-Google-Thread: fc2a5,80633577b06ab72f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!image.surnet.ru!mtu.ru!sn-xt-sjc-04!sn-xt-sjc-11!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Bob Liesenfeld" <wb0poq@visi.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Electret Condenser Mic Question
Date: Mon, 26 Feb 2007 18:12:30 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12u6trmaht4hp86@corp.supernews.com>
References: <88zEh.14108$sv6.184@trndny08>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 12
Xref: g2news2.google.com rec.radio.amateur.homebrew:9194

I think the terminating impedance has an effect on the response. A serach on either condensor mic or electret should yield some info. I know that the housing or cavity that the element resides in can have a pretty dramatic effect as well.
"Spin" <noemail@alone.invalid> wrote in message
news:88zEh.14108$sv6.184@trndny08...
>I have a headset electret condenser mic that has a low frequency response.
>Other than changing the element is there a means of getting a higher
>frequency response?
>

From 3189163441576956110
X-Google-Thread: fc2a5,70412df5f8bc90b9,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-xxxfer.readnews.com!
news-out.readnews.com!postnews3.readnews.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Need Toshiba radar components data
From: hexter@blazenet.net (gudmundur)
Reply-To: retxeh@blazenet.net
Organization: alphabetically?
X-Newsreader: WinVN 0.99.6
MIME-Version: 1.0
Content-Type: Text/Plain; charset=US-ASCII
Date: 27 Feb 2007 02:21:16 GMT
Lines: 16
Message-ID: <45e3959c$0$6827$470ef3ce@news.pa.net>
NNTP-Posting-Host: 21f81fc7.news.pa.net
X-Trace:
DXC=ahY;W_cbUW0TkVe4FPDeU79B5=CnbAAl:LFIF^ODVUG<JL:KgE]TUU0Rg2HFAmM[27dHFRf^2aTm6F
Lm4:2Jj<A0
X-Complaints-To: abuse@pa.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:9195

Hi folks,

Can anyone help me with a data book or catalog listing data for the Toshiba limiters, circulators, MMIC front ends, etc. for JRC/Raytheon/Furuno X-Band boat radars made in the 1980's.

I have searched the net and found nothing, and yet I own dozens of these devices pulled from junked radar units. I have a 'rough' idea but it would help to know the original specs, mainly for the MMIC devices.

I realize they won't tune the hamband, I really just want to find out if they meet original specs.

Thanks!!!

From -2768832940662280606
X-Google-Thread: fc2a5,6d32b50bab152c3b,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!headwall.stanford.edu!
newshub.stanford.edu!newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-02!sn-xt-sjc-09!
sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "J. Mc Laughlin" <jcm@power-net.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Racal RA6790/GM GPIB Codes
Date: Mon, 26 Feb 2007 22:48:06 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12u7ae1r9mhe38d@corp.supernews.com>
Reply-To: "J. Mc Laughlin" <jcm@power-net.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
X-Complaints-To: abuse@supernews.com
Lines: 19
Xref: g2news2.google.com rec.radio.amateur.homebrew:9196

I am looking for the complete set of codes that are sent to a Racal RA6790/GM receiver via its stock GPIB (IEEE-488, HPIB) port. $02F12.12345 changes the frequency of number 2 receiver (set with dip switch next to the GPIB socket on the receiver) to 12.12345 MHz.

The manual found on the Internet discusses the use of a serial port.

Google pointed to a site where a 232 to 488 converter was used to control an earlier model of receiver that contains a GPIB module. Some of those codes do work with the RA6790/GM.

Pointers to the information will be appreciated.

73,   Mac   N8TT
--
J. Mc Laughlin;   Michigan U.S.A.
Home: JCM@Power-Net.Net

From -9082620813720827356
X-Google-Thread: fc2a5,75ca09f1609884e1,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!

```
newspeer.tds.net!216.168.1.162.MISMATCH!sn-xt-sjc-02!sn-xt-sjc-08!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: How-to question...
Date: Tue, 27 Feb 2007 00:10:04 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12u7iptqqq51ef2@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 11
Xref: g2news2.google.com rec.radio.amateur.homebrew:9197
```

Need to wind a toroid with a center-tap. Have seen this somewhere, but can't remember where and can't find it. Anyone know how to easily wind a tap into a toroid? Am thinking maybe put a loop at that point with a twist in the wire to keep it from slipping back onto the toroid and loosening the other windings. Anybody have any ideas on this?

TIA

Dave

```
From -3992015826852063117
X-Google-Thread: fc2a5,bfd5cef3edcd9bbd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Roger <GetValidAddress@my.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: killing cars with high RF?
Date: Tue, 27 Feb 2007 02:01:00 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <frk7u29j2e98o52a3jf7a0n3j3sehdfk9l@4ax.com>
References: <1171322270.786928.164360@a75g2000cwd.googlegroups.com>
X-Newsreader: Forte Agent 4.2/32.1117
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000717-1, 02/26/2007), Outbound message
X-Antivirus-Status: Clean
X-Complaints-To: abuse@supernews.com
Lines: 60
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!tiscali!
newsfeed1.ip.tiscali.net!proxad.net!feed.ac-versailles.fr!news.ecp.fr!
feeder.z74.net!news.z74.net!sn-xt-ams-06!sn-xt-ams-08!sn-post-ams-01!sn-post-
```

sjc-01!supernews.com!corp.supernews.com!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:9198

On 12 Feb 2007 15:17:50 -0800, "KE5MBX" <nelson.blaha@gmail.com> wrote:

>Hi,
>What's all this business I hear people talking about blasting people's
>car stereos or killing cars altogether with high-power RF? I run 2m,
>10m, and 11m in my jeep and I'd like to sort out the fact from the
>legend and find out what kind of power I can use without risking
>damage to my jeep or cars around me. At what power level is front-end

You aren't going to directly damage any cars around you even with high power, but you might affect some with a 100 on HF or even 2-meters.

>overload to a nearby radio likely? At what power level is damage

Ham or broadcast? Broadcast is generally fairly sensitive to overload. On-the-road it's likely to be for a very short duration so I'd not worry about it.

>likely, and to what componets?

With today's cars it's unlikely you are going to damage any components unless you have a grounding problem and then the computer is the most susceptible.

>
>I am currently using only 50 watts on a 5/8 wave (2m), 25w on a 1/4
>wave (10m), legal 4w on a 1/4 wave (11m)

I've run 160 watts on 144 which will *typically* desense another 2-meter rig for up to a 100 feet or so, but it depends on the rig. I've also stopped the car next to another mobile with no *apparent* problem although here certainly had to be some desense. I've also "desensed" a mobile 50 feet away with a 5 watt HT (It did have a clean signal) I also shut down the cable TV system for an entire town with a 5 Watt HT at a demonstration, but that's another story other than to say two days after the demonstration you couldn't find a cable leak in the whole town. <:-))

Some mobiles are running up to 600 watts on HF without problems while others can't get a 100. Most of the car manufacturers are saying you shouldn't go beyond a 100. I'd have no qualms about going to 500 or 600. If it works, fine. If it didn't I guess I'd have to pay for what ever broke.

When I purchased my 4-Runner the Toyota mechanics ran the wiring for my VHF/UHF rigs and that was about 6 years ago. My wife runs a 50 watt (Kenwood TM-V7A) in a Toyota Prius (Hybrid). I'm thinking of leasing one while they still have good prices and a surplus of cars available which will disappear sooner with the price of gas going back

```
up. Only problem with leasing the Prius is how to run an HF rig in
there.  Their 12  volt system is very light duty and that 500 volt
batter might be a bit steep for my mobile rig. <:-))

>
>Thanks,
>Nelson KE5MBX
Roger Halstead (K8RI & ARRL life member)
(N833R, S# CD-2 Worlds oldest Debonair)
www.rogerhalstead.com



From 3180135862324377180
X-Google-Thread: fc2a5,bfd5cef3edcd9bbd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!news.glorb.com!
news.astraweb.com!router1.astraweb.com!sn-xt-sjc-04!sn-xt-sjc-07!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: Roger <GetValidAddress@my.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: killing cars with high RF?
Date: Tue, 27 Feb 2007 02:20:02 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <erl7u25682euh5sk700gh88g9oo2ss5daa@4ax.com>
References: <1171322270.786928.164360@a75g2000cwd.googlegroups.com>
<1171411354.056845.264180@v45g2000cwv.googlegroups.com>
X-Newsreader: Forte Agent 4.2/32.1117
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000717-1, 02/26/2007), Outbound message
X-Antivirus-Status: Clean
X-Complaints-To: abuse@supernews.com
Lines: 56
Xref: g2news2.google.com rec.radio.amateur.homebrew:9199

On 13 Feb 2007 16:02:34 -0800, rkmr15203@yahoo.com wrote:

>On Feb 12, 6:17 pm, "KE5MBX" <nelson.bl...@gmail.com> wrote:
>> Hi,
>> What's all this business I hear people talking about blasting people's
>> car stereos or killing cars altogether with high-power RF? I run 2m,
>> 10m, and 11m in my jeep and I'd like to sort out the fact from the
>> legend and find out what kind of power I can use without risking
>> damage to my jeep or cars around me.  At what power level is front-end
>> overload to a nearby radio likely? At what power level is damage
>> likely, and to what componets?
>>
>> I am currently using only 50 watts on a 5/8 wave (2m), 25w on a 1/4
>> wave (10m), legal 4w on a 1/4 wave (11m)
>>
>> Thanks,
```

>> Nelson KE5MBX
>
>There are many times when "high" power has disrupted other devices.
>The early car computers have been know to shut down with 100 watts of
>VHF. Worked on a police car that the engine would shut off when over
>80 mph and key the radio.
> A friend would be taking on his 1KW mobile as he pulled into his
>driveway. He would find his base radio receiver front end blown. Took

Some thing wrong there. I'm running two stations here and both are
capable of the legal limit. The one in the shop is a bit more modest
with a 2K4 instead of an Alpha, but both are *old*. OTH there is the
whole Hallicrafters station in the shop as well. The antennas are
fairly close and there has never been a problem. Those antennas
http://www.rogerhalstead.com/ham_files/Tower30.htm (the wire antennas
are difficult to see) are much larger than what your friend would have
had on the mobile. Unless the mobile antenna was almost touching the
other rig's antenna and I do mean almost touching it shouldn't have
created a problem. The antenna over the driveway would have had to be
low and very close to the mobile antenna.

>three times to think it through and as he should have been doing,
>switch his base antenna (dipole over the driveway) to ground, when not
>in use.

I don't ground or disconnect any cables even during thunderstorms.
Basically I can't easily get to the cables and any thunderstorm would
be past by the time I could get them disconnected.

The tower, with a large antenna system
http://www.rogerhalstead.com/ham_files/Tower29.htmtakes an average of
3 visually verified direct hits a year although it took 5 by the
beginning of August last summer. OTOH I have a good single point
ground with 32 or 33 (lost count) 8' ground rods CadWelded (TM) to
over 600 feet of bare #2 wire that ties the whole antenna system and
house electrical ground together.

Roger Halstead (K8RI & ARRL life member)
(N833R, S# CD-2 Worlds oldest Debonair)
www.rogerhalstead.com

From -4974777432220476124
X-Google-Thread: fc2a5,bfd5cef3edcd9bbd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!headwall.stanford.edu!
newshub.stanford.edu!sn-xt-sjc-02!sn-xt-sjc-06!sn-post-sjc-02!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: Roger <GetValidAddress@my.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: killing cars with high RF?
Date: Tue, 27 Feb 2007 02:26:29 -0500

```
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <t5n7u2hgeogd2t0vov21h474cvtu6nrag2@4ax.com>
References: <1171322270.786928.164360@a75g2000cwd.googlegroups.com>
<12tgtubnv7v26de@corp.supernews.com>
<1171831730.158262.72860@a75g2000cwd.googlegroups.com>
X-Newsreader: Forte Agent 4.2/32.1117
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 000717-1, 02/26/2007), Outbound message
X-Antivirus-Status: Clean
X-Complaints-To: abuse@supernews.com
Lines: 63
Xref: g2news2.google.com rec.radio.amateur.homebrew:9200

On 18 Feb 2007 12:48:50 -0800, "LenAnderson@ieee.org"
<LenAnderson@ieee.org> wrote:

>On Feb 18, 8:00?am, "john graesser" <graes...@tca.net> wrote:
>> "KE5MBX" <nelson.bl...@gmail.com> wrote in message
>>
>> news:1171322270.786928.164360@a75g2000cwd.googlegroups.com...
>>
>> > Hi,
>> > What's all this business I hear people talking about blasting people's
>> > car stereos or killing cars altogether with high-power RF? I run 2m,
>> > 10m, and 11m in my jeep and I'd like to sort out the fact from the
>> > legend and find out what kind of power I can use without risking
>> > damage to my jeep or cars around me.
t what power level is front-end
>> > overload to a nearby radio likely? At what power level is damage
>> > likely, and to what componets?
>
>> Back in the mid 1970's I was in NROTC in college. There it was mentioned
>> that an EA6B (the electronics warfare version of an A6) could pulse its
>> radar and fry the electronics of a plane in the cone if it was close enough
>> (under 1 mile if I recall correctly). Anecdotal stories like that are the
>> source of electronic killing rf. That involved a multi megawatt microwave
>> pulse, not something you would normally see in an amatuer installation.
>
>   Back in the late 1960s I was a staff engineer at a small
>   microwave company called Micro Radionics Inc.  One of
>   the projects I worked on was a pre-flight test set for the
>   E6 Intruder.  Battery-powered, it could be used on deck
>   in front of the radome to confirm that the E6's radar was
>   still operating properly.  No specifications existed warning
>   of "megawatt" peak pulse powers from Intruder aircraft.

Those were the days when the techs would check the output by putting
their hands up in front of the antenn to see if they'd get "warm".
(always take any rings of first though<g>)
>
>   I'm not familiar with the EA6B and doubt it had "megawatt"
>   output powers.  EW designed to interfere with receivers
>   generally don't need such high RF output powers.
>
>
>> Living in an apartment, years ago I tried putting a 10 meter dipole across
>> the ceiling in a stealth installation, I shut down when the residents above
>> me complained that their tv would scramble while I tried running psk31.
>
>   In 1960 I was living in a second-story apartment and put
>   a short base-loaded CB antenna in the attic space about
>   five feet in front of the stacked TV "vee" antennas for
>   apartment dwellers, my own apartment included.  The
>   2 W peak output CB had a 60 db minimum (measured)
>   attenuation (at Channel 2) lowpass filter.  No problems
>   seen or reported.  The TV transmitters in Los Angeles
>   were all grouped on top of Mt. Wilson, about 30 miles
>   away from the apartment.
>
>   A simple thing such as a lowpass filter can solve a lot
>   of problems before they happen.
>
>   LenAnderson@ieee.org
Roger Halstead (K8RI & ARRL life member)
(N833R, S# CD-2 Worlds oldest Debonair)
www.rogerhalstead.com


From 8417139957244346967
X-Google-Thread: fc2a5,75ca09f1609884e1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 27 Feb 2007 02:01:46 -0600
Date: Tue, 27 Feb 2007 00:01:04 -0800
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla Thunderbird 1.0.2 (X11/20050322)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How-to question...
References: <12u7iptqqq51ef2@corp.supernews.com>
In-Reply-To: <12u7iptqqq51ef2@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <1vSdnYFxBvX3eH7YnZ2dnUVZ8s-qnZ2d@pipex.net>
Lines: 12
NNTP-Posting-Host: 71.107.26.158
X-Trace: sv3-
wuMCdWbK9f61L2lyDIBU75vAvKJ2nXkKVHXvPmDFa6w3SfTUo2xYiKgDEOXo2kNDHcB4ZQBcwKLSXWP!
k2fT+X693SFMknO8rbundfHh6XdRqZAb/20r0oy619wMLZWEQFl+QpVTgCY0W88R4ym28TDuiy0w!
KSoqPW+as8d4tTAqyTVidnXDoA==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news2.google.com rec.radio.amateur.homebrew:9201

> Need to wind a toroid with a center-tap.  Have seen this somewhere, but
> can't remember where and can't find it.  Anyone know how to easily wind a
> tap into a toroid?  Am thinking maybe put a loop at that point with a twist
> in the wire to keep it from slipping back onto the toroid and loosening the
> other windings.  Anybody have any ideas on this?
=======================
A bi-filar winding  A-a and B-b .  Connect a to B (that's the centre)
Number of turns is half the total required.  A and b are obviously the
end connections.
So a toroid requiring 10 turns with a centre needs 5 bi-filar turns.

Frank      KN6WH / GM0CSZ



From 891132631269749686
X-Google-Thread: fc2a5,75ca09f1609884e1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!v33g2000cwv.googlegroups.com!not-for-
mail
From: N2EY@AOL.COM
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How-to question...
Date: 27 Feb 2007 02:24:10 -0800
Organization: http://groups.google.com
Lines: 26
Message-ID: <1172571850.399326.276830@v33g2000cwv.googlegroups.com>
References: <12u7iptqqq51ef2@corp.supernews.com>
NNTP-Posting-Host: 205.188.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1172571866 14523 127.0.0.1 (27 Feb 2007 10:24:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Feb 2007 10:24:26 +0000 (UTC)
In-Reply-To: <12u7iptqqq51ef2@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 Turboweb [dtc-te072 8.4.1], HTTP/1.1 cache-dtc-
aa07.proxy.aol.com[CDBC740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: v33g2000cwv.googlegroups.com; posting-host=205.188.116.11;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news2.google.com rec.radio.amateur.homebrew:9202
```

```
On Feb 27, 1:10=EF=BF=BDam, "Dave" <db5...@hotmail.com> wrote:
> Need to wind a toroid with a center-tap. =A0Have seen this somewhere, but
> can't remember where and can't find it. =A0Anyone know how to easily wind=
 a
> tap into a toroid? =A0Am thinking maybe put a loop at that point with a t=
wist
> in the wire to keep it from slipping back onto the toroid and loosening t=
he
> other windings. =A0Anybody have any ideas on this?
>
Besides a bifilar winding, which has already been suggested, try this:

Start at the middle and work towards the ends.

Say you need 10 turns center tapped. Take a piece of
wire long enough for 10 turns, find the exact halfway point,
scrape off the insulation there and make a twist.  Then put the twist
on the outside of the core, and wind one end 5 turns one way around
the core, and the other end 5 turns the other way.

Or, use two pieces of wire long enough for 5 turns, Wind the first
one, bring its end out, twist/splice to the second one, wind 5 more
turns.

73 de Jim, N2EY




From -7543016076275123240
X-Google-Thread: fcc6e,73db085ee6c6b089,start
X-Google-Thread: f7653,73db085ee6c6b089,start
X-Google-Thread: 108122,73db085ee6c6b089,start
X-Google-Thread: fc2a5,73db085ee6c6b089,start
X-Google-Thread: 107ada,73db085ee6c6b089,start
X-Google-Attributes: gidfcc6e,gidf7653,gid108122,gidfc2a5,gid107ada,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news.alt.net
From: MI5Victim@mi5.gov.uk
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipme
nt,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: MI5 Persecution: Stand up for Free Speech 14/8/95 (586)
Followup-To:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipme
nt,rec.radio.amateur.homebrew,rec.radio.amateur.misc,uk.misc
Date: Tue, 27 Feb 2007 16:46:19 +0000 (UTC)
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 29
Message-ID: <m07012716460703@4ax.com>
Xref: g2news2.google.com rec.radio.amateur.antenna:25754
rec.radio.amateur.digital.misc:483 rec.radio.amateur.equipment:8114
rec.radio.amateur.homebrew:9203 rec.radio.amateur.misc:29573
```

From: rji@cheetah.inmos.co.uk (Richard Ingram)
Newsgroups: uk.misc
Date: Mon Aug 14 10:08:32 1995

Some cencorship loving bore wrote :

> In article <GEVANS.95Aug14094119@mvagusta.uk.tele.nokia.fi>
gevans@mvagusta.uk.tele.nokia.fi (Gareth Evans) writes:
>
>   His sysadmin is also next to useless, and has not replied to my request or
>   even acknowledged it. Maybe this person *is* a sysadmin?
>
> He's not. It seems the public access site he uses has got no proper
> management over its users. Here's a copy of a reply I got from a
> complaint I made. [After returning every one of Corley's postings to

[snip a large pile of winging complaining drivel]

Geez what a bunch of tossers you all are - you don't like someones postings so
you try and get him evicted from the net, why not just use a kill file - you
DONT have to read his posts/threads now do you ?

Why is it the net is getting populated by the biggest bunch of self absorbed
little Hitlers ? You don't like someones posts so you bloody complain or mail
bomb them - grow up you bunch of fucking sad gits !

Richard.

586

From 664761615926345299
X-Google-Thread: fcc6e,a773b12419f42b1,start
X-Google-Thread: f7653,a773b12419f42b1,start
X-Google-Thread: 108122,a773b12419f42b1,start
X-Google-Thread: fc2a5,a773b12419f42b1,start
X-Google-Thread: 107ada,a773b12419f42b1,start
X-Google-Attributes: gidfcc6e,gidf7653,gid108122,gidfc2a5,gid107ada,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!
news.alt.net
From: MI5Victim@mi5.gov.uk
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipme
nt,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: MI5 Persecution: Troubling Censorship Issues 20/8/95 (3241)
Followup-To:
rec.radio.amateur.antenna,rec.radio.amateur.digital.misc,rec.radio.amateur.equipme
nt,rec.radio.amateur.homebrew,rec.radio.amateur.misc,uk.misc
Date: Tue, 27 Feb 2007 18:08:19 +0000 (UTC)
Organization: Altopia Corp. - Usenet Access - www.altopia.com

```
Lines: 30
Message-ID: <m07012718080809@4ax.com>
Xref: g2news2.google.com rec.radio.amateur.antenna:25757
rec.radio.amateur.digital.misc:484 rec.radio.amateur.equipment:8115
rec.radio.amateur.homebrew:9204 rec.radio.amateur.misc:29575

Fred Read (postmaster@foxhouse.demon.co.uk) wrote:

: He posts this drivel every week or so to a number of groups that
: I subscribe to and nothing seems to stop him. *ALL* of his posts
: are off topic and unwelcome to the groups he posts to.

: We have complained about him to his postmaster on at least four
: previous occasions and he still posts the same crap. As his SP
: seem unwilling, or unable, to do anything about him, we were
: windering if there was anything you could do?

If he is not actively using tactics to avoid or sabotage killfiles
(posting from various systems, forging, massive crossposting to create
cross-newsgroup flame wars) then it should be quite easy to killfile
him.

It does seem that the frequency and the size of his posts are
approaching net abuse.  However, IMHO, they aren't quite there yet. If
his postmaster were to act in this instance, it would raise troubling
censorship issues.

--
Karen Lofstrom                                     lofstrom@lava.net
--------------------------------------------------------------------
       "Adventures for those of the inadmissable kind,
        with no follow through."
            ---  a flaming bonzo beckwithian idiot

3241



From 6878171662162598224
X-Google-Thread: fc2a5,70412df5f8bc90b9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!
wn13feed!worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!53ab2750!not-
for-mail
From: You <You@shadow.orgs>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need Toshiba radar components data
Organization: You and my shadow
References: <45e3959c$0$6827$470ef3ce@news.pa.net>
User-Agent: MT-NewsWatcher/3.1 (PPC)
Message-ID: <You-AE6B3A.10004127022007@netnews.worldnet.att.net>
Lines: 25
```

```
Date: Tue, 27 Feb 2007 18:59:34 GMT
NNTP-Posting-Host: 12.12.208.44
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1172602774 12.12.208.44 (Tue, 27 Feb
2007 18:59:34 GMT)
NNTP-Posting-Date: Tue, 27 Feb 2007 18:59:34 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:9205

In article <45e3959c$0$6827$470ef3ce@news.pa.net>,
 hexter@blazenet.net (gudmundur) wrote:

>  Hi folks,
>
>  Can anyone help me with a data book or catalog listing data
> for the Toshiba limiters, circulators, MMIC front ends, etc. for
> JRC/Raytheon/Furuno X-Band boat radars made in the 1980's.
>
>  I have searched the net and found nothing, and yet I own dozens
> of these devices pulled from junked radar units. I have a 'rough'
> idea but it would help to know the original specs, mainly for
> the MMIC devices.
>
>  I realize they won't tune the hamband, I really just want to find
> out if they meet original specs.
>
>  Thanks!!!
>

Did you think to contact the Support Engineering Staff at Toshiba????

I thought not.....

Duhhhh


From -4502736054501048830
X-Google-Thread: fc2a5,6d32b50bab152c3b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!8g2000cwh.googlegroups.com!not-for-
mail
From: "Joe" <toptyp19@mindspring.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Racal RA6790/GM GPIB Codes
Date: 27 Feb 2007 13:55:32 -0800
Organization: http://groups.google.com
Lines: 20
Message-ID: <1172613332.385203.259770@8g2000cwh.googlegroups.com>
References: <12u7ae1r9mhe38d@corp.supernews.com>
NNTP-Posting-Host: 68.164.0.100
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1172613364 23059 127.0.0.1 (27 Feb 2007 21:56:04 GMT)
```

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Feb 2007 21:56:04 +0000 (UTC)
In-Reply-To: <12u7ae1r9mhe38d@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; PPC; en-US; rv:1.0.2) Gecko/20021120
Netscape/7.01,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 8g2000cwh.googlegroups.com; posting-host=68.164.0.100;
   posting-account=gACzEg0AAABD7uaodW4xfKk0E0fBcblZ
Xref: g2news2.google.com rec.radio.amateur.homebrew:9206


J. Mc Laughlin wrote:
> I am looking for the complete set of codes that are sent to a Racal
> RA6790/GM receiver via its stock GPIB (IEEE-488, HPIB) port.  $02F12.12345
> changes the frequency of number 2 receiver (set with dip switch next to the
> GPIB socket on the receiver) to 12.12345 MHz.
>
>     The manual found on the Internet discusses the use of a serial port.
>
>     Google pointed to a site where a 232 to 488 converter was used to
> control an earlier model of receiver that contains a GPIB module.  Some of
> those codes do work with the RA6790/GM.
>
>     Pointers to the information will be appreciated.
>
>            73,     Mac    N8TT
> --
> J.  Mc Laughlin;   Michigan  U.S.A.
> Home:  JCM@Power-Net.Net



From 3772340403869965192
X-Google-Thread: fc2a5,6d32b50bab152c3b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m58g2000cwm.googlegroups.com!not-for-
mail
From: "Joe" <toptyp19@mindspring.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Racal RA6790/GM GPIB Codes
Date: 27 Feb 2007 13:57:59 -0800
Organization: http://groups.google.com
Lines: 25
Message-ID: <1172613479.628443.327630@m58g2000cwm.googlegroups.com>
References: <12u7ae1r9mhe38d@corp.supernews.com>
NNTP-Posting-Host: 68.164.0.100
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1172613500 1641 127.0.0.1 (27 Feb 2007 21:58:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 27 Feb 2007 21:58:20 +0000 (UTC)
```

In-Reply-To: <12u7ae1r9mhe38d@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; PPC; en-US; rv:1.0.2) Gecko/20021120
Netscape/7.01,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m58g2000cwm.googlegroups.com; posting-host=68.164.0.100;
   posting-account=gACzEg0AAABD7uaodW4xfKk0E0fBcblZ
Xref: g2news2.google.com rec.radio.amateur.homebrew:9207

Ask Gary, gewingerd@netzero.com, he's the 6790 guru. A former Racal
service tech.
GL, Joe-WA9LAE.

J. Mc Laughlin wrote:
> I am looking for the complete set of codes that are sent to a Racal
> RA6790/GM receiver via its stock GPIB (IEEE-488, HPIB) port. $02F12.12345
> changes the frequency of number 2 receiver (set with dip switch next to the
> GPIB socket on the receiver) to 12.12345 MHz.
>
>   The manual found on the Internet discusses the use of a serial port.
>
>   Google pointed to a site where a 232 to 488 converter was used to
> control an earlier model of receiver that contains a GPIB module. Some of
> those codes do work with the RA6790/GM.
>
>   Pointers to the information will be appreciated.
>
>   73,   Mac   N8TT
> --
> J. Mc Laughlin;   Michigan U.S.A.
> Home: JCM@Power-Net.Net

From 1908053318283844566
X-Google-Thread: fc2a5,70412df5f8bc90b9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!news-out.octanews.net!
teal.octanews.net!198.186.190.95.MISMATCH!news-out.readnews.com!
postnews3.readnews.com!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need Toshiba radar components data
From: hexter@blazenet.net (gudmundur)
Reply-To: retxeh@blazenet.net
Organization: alphabetically?
X-Newsreader: WinVN 0.99.6
References: <45e3959c$0$6827$470ef3ce@news.pa.net> <You-
AE6B3A.10004127022007@netnews.worldnet.att.net>
MIME-Version: 1.0

Content-Type: Text/Plain; charset=US-ASCII
Date: 28 Feb 2007 03:02:07 GMT
Lines: 59
Message-ID: <45e4f0ad$0$6815$470ef3ce@news.pa.net>
NNTP-Posting-Host: 4e6d84ba.news.pa.net
X-Trace:
DXC=Kb^dVgTb;6f;>kBkM`GFNe9B5=CnbAAlj>[e;U25beOlJL:KgE]TUU`OLBEWa>ToGiGTbM]aNZh[f_7akGk667Ha
X-Complaints-To: abuse@pa.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:9208

In article <You-AE6B3A.10004127022007@netnews.worldnet.att.net>,
You@shadow.orgs says...
>
>In article <45e3959c$0$6827$470ef3ce@news.pa.net>,
> hexter@blazenet.net (gudmundur) wrote:
>
>> Hi folks,
>>
>> Can anyone help me with a data book or catalog listing data
>> for the Toshiba limiters, circulators, MMIC front ends, etc. for
>> JRC/Raytheon/Furuno X-Band boat radars made in the 1980's.
>>
>> I have searched the net and found nothing, and yet I own dozens
>> of these devices pulled from junked radar units. I have a 'rough'
>> idea but it would help to know the original specs, mainly for
>> the MMIC devices.
>>
>> I realize they won't tune the hamband, I really just want to find
>> out if they meet original specs.
>>
>> Thanks!!!
>>
>
>Did you think to contact the Support Engineering Staff at Toshiba????
>
>I thought not.....
>
>Duhhhh

Who's answer in broken english was "We don't support those products any longer". And I asked in disbelief "Can't you help me with data sheets or tell me where on your website I can download the .PDF files". Mr. Suckagookie said "We no longer have that information". So would you like to kmow how many of those "If you want to talk to a real human you are S.O.L., if you want to listen to more stupid choices press 2" that I fumbled through just to get Mr. Suckagookie on the line.

Have you had any luck getting obsolete data sheets from a Jap company recently? I thought not. Duhhhhhh.

Thanks for casting the first stone of stupidity by accusing me of not having tried all logical avenues first. Thanks for appending Duhhhhh to your reply as an insult to me.

About all I can really say is that you are probably one of those assholes who is to stupid to turn off their foglights when it isn't foggy. Thats why they are called fog lights and not "Turn'em on any f--king time lights". See if they were supposed to always be on they wouldn't have that second switch that intelligent folks use to turn them off with. Yes, giving you access to usenet newsgroups and giving you fog lights was like giving a machine gun to a fucking monkey. Same results. Do you have any idea what those parts I mentioned above are used for and how? Do you know anything about 9.3ghz to 9.5ghz portion of X-Band where I spend most of my work day. Here's 50kw of ionizing radiation for your thoughts. Remember, always look directly into the magnetron at very close range while testing the pulse forming network, it will spark your imagination. CRDM Retired 1996

From -6959962625583356O2
X-Google-Thread: fc2a5,dc765360956da8fe
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!post01.iad01!roadrunner.com!not-for-mail
From: "Jimmie D" <GFENDER@carolina.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1172280753.127018.275120@8g2000cwh.googlegroups.com> <Is-
dncZ1TfjlOELYnZ2dnUVZ_tKjnZ2d@adelphia.com>
<45e08bf7$0$8946$4c368faf@roadrunner.com>
<t1d1u29l5i0dl317pls2pkto6vghfp76dq@4ax.com>
Subject: Re: Amp design question
Date: Tue, 27 Feb 2007 23:49:43 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Lines: 44
Message-ID: <45e505c8$0$5820$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:9209

<no.spam@no.uce.bellatlantic.net> wrote in message
news:t1d1u29l5i0dl317pls2pkto6vghfp76dq@4ax.com...
> On Sat, 24 Feb 2007 14:20:12 -0500, "Jimmie D"
> <GFENDER@carolina.rr.com> wrote:
>
>>
>>I was tired when I made the post and for got to say that this would be a

>>mbile unit. antenna mounted on my tool box in the bed of my pickup. It was
>>really just a thought about mounting the amp in the tool box since room in
>>my little Nissan is scarce. From there I made the leap to thinking since
>>the
>>feed point impdance of the antenna is already going to fairly low and feed
>>line length practically 0 why step it up to 50 ohms just to drop it back
>>down again. More realistically I am thinking a short antena on 20M may be
>>more like 10 ohms wich would be a 5:1 SWR and I dont think my amp would
>>like
>>that much. At best I am thinking the 10M antena I am planning on using
>>will
>>have the 25 ohm impedance you metioned, 15 and 20 m antennas would have
>>even
>>a lower impedance.so an output impedance of say 15 ohms might be a good
>>thing.
>>
>>Jimmie
>
> One reason to go from whatever andtenna feed impedence to 50 ohms is
> on receive you still need a 50 ohm match so using standard amp design
> with 50ohm output makes life easier for that. Also for testing life
> is easier (got a 10 ohm load?) as then everything is standardized
> at 50 ohms.   Also at low impedence the I^R losses go up as the
> magnitude of I gets very large
>
> Allison.
>
>
>

Found an old CB amp in my junk box today. Spec plate on the amp says it will
cover 80 thru 10. I plan on doing some mods improving the bias.and add some
filtering I think this may give me what I want. I forgot I bought a 5 galon
bucket of these amps at a hamfest years ago and still have a few around.

From 9162882060909219963
X-Google-Thread: 108122,246d33bb3c927e15,start
X-Google-Thread: fc8b1,246d33bb3c927e15,start
X-Google-Thread: fc2a5,246d33bb3c927e15,start
X-Google-Attributes: gid108122,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s48g2000cws.googlegroups.com!not-for-mail
From: "Jack Schmidling" <jack@schmidling.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: PHOTO OF THE WEEK, Project Complete
Date: 28 Feb 2007 07:08:03 -0800
Organization: http://groups.google.com

```
Lines: 11
Message-ID: <1172675283.635439.111120@s48g2000cws.googlegroups.com>
NNTP-Posting-Host: 209.112.95.182
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172675288 15245 127.0.0.1 (28 Feb 2007 15:08:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 28 Feb 2007 15:08:08 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.10)
Gecko/20050716 Firefox/1.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s48g2000cws.googlegroups.com; posting-host=209.112.95.182;
   posting-account=mxUuuQwAAAC98VwfRPrW8R2N3sbA4X-i
Xref: g2news2.google.com rec.radio.amateur.equipment:8117
rec.radio.amateur.boatanchors:7735 rec.radio.amateur.homebrew:9210
```

My homebrew project is now on the air. 8000 modulated by a pair of
813's driven by the Ranger.

Those within range are invited to join the Noon Time Forum on 3875
weekdays at Noon, Chicago time.

js

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm

```
From -4210888558435141718
X-Google-Thread: fc2a5,6d32b50bab152c3b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!news.glorb.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller.gnilink.net!
gnilink.net!trnddc03.POSTED!3eccad07!not-for-mail
From: Dan Rae <danrae@verizonEXTRACTTHIS.net>
Reply-To:  danrae@verizonEXTRACTTHIS.net
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Racal RA6790/GM GPIB Codes
References: <12u7ae1r9mhe38d@corp.supernews.com>
In-Reply-To: <12u7ae1r9mhe38d@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 9
Message-ID: <j8iFh.3717$Tg7.3143@trnddc03>
Date: Wed, 28 Feb 2007 16:32:15 GMT
```

NNTP-Posting-Host: 71.105.98.226
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc03 1172680335 71.105.98.226 (Wed, 28 Feb 2007 11:32:15 EST)
NNTP-Posting-Date: Wed, 28 Feb 2007 11:32:15 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:9211

J. Mc Laughlin wrote:
> I am looking for the complete set of codes that are sent to a Racal
> RA6790/GM receiver via its stock GPIB (IEEE-488, HPIB) port.

Mac, there's about 13 pages in the manual about this (the later versions
anyway pp 3.34 to 3.47). I'm sure Gary will be only too happy to sell
you one of the reproductions he does...
73
Dan
ac6ao

From -6635972979222148017
X-Google-Thread: 108122,246d33bb3c927e15
X-Google-Thread: fc8b1,246d33bb3c927e15
X-Google-Thread: fc2a5,246d33bb3c927e15
X-Google-Attributes: gid108122,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s48g2000cws.googlegroups.com!not-for-mail
From: "wb5kcm" <wb5kcm@hotmail.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: PHOTO OF THE WEEK, Project Complete
Date: 28 Feb 2007 09:05:15 -0800
Organization: http://groups.google.com
Lines: 16
Message-ID: <1172682315.106950.144650@s48g2000cws.googlegroups.com>
References: <1172675283.635439.111120@s48g2000cws.googlegroups.com>
NNTP-Posting-Host: 216.213.225.2
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172682322 4112 127.0.0.1 (28 Feb 2007 17:05:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 28 Feb 2007 17:05:22 +0000 (UTC)
In-Reply-To: <1172675283.635439.111120@s48g2000cws.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.10) Gecko/20070216 Firefox/1.5.0.10,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s48g2000cws.googlegroups.com; posting-host=216.213.225.2;
   posting-account=EdH9ww0AAAAFnEYpZGFT7-aH0D1ihcTY
Xref: g2news2.google.com rec.radio.amateur.equipment:8118
rec.radio.amateur.boatanchors:7736 rec.radio.amateur.homebrew:9212

On Feb 28, 9:08 am, "Jack Schmidling" <j...@schmidling.com> wrote:
> My homebrew project is now on the air. 8000 modulated by a pair of

> 813's driven by the Ranger.
>
> Those within range are invited to join the Noon Time Forum on 3875
> weekdays at Noon, Chicago time.
>
> js
>
> --
> PHOTO OF THE WEEK:http://schmidling.com/pow.htm

Jack, I really enjoyed reading your writeup and looking at the photos.
You have a wonderful one-of-a-kind transmitter there. It looks great.
Hope to talk to you on the air one day. 73 de Randy, WB5KCM

From 2917864709200021938
X-Google-Thread: fc2a5,4490908632a51b2f,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j27g2000cwj.googlegroups.com!not-for-mail
From: mhtplsh@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: lownoise fm preamplifer design help reud.
Date: 28 Feb 2007 12:35:48 -0800
Organization: http://groups.google.com
Lines: 21
Message-ID: <1172694948.491732.256060@j27g2000cwj.googlegroups.com>
NNTP-Posting-Host: 59.95.12.20
Mime-Version: 1.0
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X-Trace: posting.google.com 1172694954 895 127.0.0.1 (28 Feb 2007 20:35:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 28 Feb 2007 20:35:54 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.10)
Gecko/20070216 Firefox/1.5.0.10,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j27g2000cwj.googlegroups.com; posting-host=59.95.12.20;
   posting-account=gDOflQ0AAABDBqam5p9qMOKW36Vadux1
Xref: g2news2.google.com rec.radio.amateur.homebrew:9213

I want to make one 2 stage low noise fm amplifier. 88~108Mhz. 75 ohm
input output impedance.
I am newbie to this field but i am attracted to learn by bulding.
I hv bought RF transistor & & hv it's .sp2 file. Also downloaded
quicksmith chart, RFsim99 etc.
Can u help me in designing?
The s parameter of the input transistor is

S parameter for 50 ohms

```
!      f                S11                   S21
S12                 S22
!    MHz     MAG     ANG     MAG     ANG     MAG     ANG     MAG
ANG
     100      0.71    -49.5       18.61    139       0.023
65.8      0.834   -22


Nf 1.15     GO  .18     ang : 126  Rn .15
```

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X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!k78g2000cwa.googlegroups.com!not-for-
mail
From: N2EY@AOL.COM
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.boatanchors,rec.radio.amateur.homebr
ew
Subject: Re: PHOTO OF THE WEEK, Project Complete
Date: 28 Feb 2007 16:32:07 -0800
Organization: http://groups.google.com
Lines: 14
Message-ID: <1172709127.336816.101330@k78g2000cwa.googlegroups.com>
References: <1172675283.635439.111120@s48g2000cws.googlegroups.com>
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Mime-Version: 1.0
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1172709148 4651 127.0.0.1 (1 Mar 2007 00:32:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 1 Mar 2007 00:32:28 +0000 (UTC)
In-Reply-To: <1172675283.635439.111120@s48g2000cws.googlegroups.com>
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Complaints-To: groups-abuse@google.com
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Xref: g2news2.google.com rec.radio.amateur.equipment:8119
rec.radio.amateur.boatanchors:7740 rec.radio.amateur.homebrew:9214
```

On Feb 28, 10:08=EF=BF=BDam, "Jack Schmidling" <j...@schmidling.com> wrote:

> My homebrew project is now on the air. =A08000 modulated by a pair of
> 813's driven by the Ranger.

> --
> PHOTO OF THE WEEK:http://schmidling.com/pow.htm

Really nice, Jack. Did you use the Ranger audio system to
drive the 813s?

Such a project is never really "finished", because there are
always new ideas and parts to be tried out.

73 es GL de Jim, N2EY

```
From -8763564035494372223
X-Google-Thread: 108122,246d33bb3c927e15
X-Google-Thread: fc8b1,246d33bb3c927e15
X-Google-Thread: fc2a5,246d33bb3c927e15
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!
news2.euro.net!66.150.105.54.MISMATCH!nntpserver.com!zeus.nntpserver.com!
10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: "Richard Knoppow" <dickburk@ix.netcom.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.boatanchors,rec.radio.amateur.homebr
ew
References: <1172675283.635439.111120@s48g2000cws.googlegroups.com>
Subject: Re: PHOTO OF THE WEEK, Project Complete
Date: Wed, 28 Feb 2007 18:47:41 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Lines: 30
Message-ID: <45e633af$0$16397$88260bb3@free.teranews.com>
NNTP-Posting-Date: 01 Mar 2007 02:00:15 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.equipment:8122
rec.radio.amateur.boatanchors:7744 rec.radio.amateur.homebrew:9215
```

"Jack Schmidling" <jack@schmidling.com> wrote in message
news:1172675283.635439.111120@s48g2000cws.googlegroups.com...
> My homebrew project is now on the air. 8000 modulated by
> a pair of
> 813's driven by the Ranger.
>
> Those within range are invited to join the Noon Time Forum
> on 3875
> weekdays at Noon, Chicago time.
>
> js

>
> --
> PHOTO OF THE WEEK: http://schmidling.com/pow.htm
>

Congratulations, its beautiful! Tube transmitters
should have windows. For some pictures of transmitters
with windows see:
http://www.oldradio.com/archives/hardware/we.htm

--

Richard Knoppow
Los Angeles, CA, USA
dickburk@ix.netcom.com

--
Posted via a free Usenet account from http://www.teranews.com

```
From -3853286973058648307
X-Google-Thread: 108122,246d33bb3c927e15
X-Google-Thread: fc8b1,246d33bb3c927e15
X-Google-Thread: fc2a5,246d33bb3c927e15
X-Google-Attributes: gid108122,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!
feeder1.cambrium.nl!feed.tweaknews.nl!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-
ams-05!sn-ams!sn-feed-ams-02!sn-post-ams-02!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.boatanchors,rec.radio.amateur.homebr
ew
Subject: Re: PHOTO OF THE WEEK, Project Complete
Date: Wed, 28 Feb 2007 23:07:01 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12ucnrlgs5bqmcf@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <1172675283.635439.111120@s48g2000cws.googlegroups.com>
<1172709127.336816.101330@k78g2000cwa.googlegroups.com>
In-Reply-To: <1172709127.336816.101330@k78g2000cwa.googlegroups.com>
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X-Complaints-To: abuse@supernews.com
Lines: 29
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Xref: g2news2.google.com rec.radio.amateur.equipment:8124
rec.radio.amateur.boatanchors:7751 rec.radio.amateur.homebrew:9216

N2EY@AOL.COM wrote:

> Really nice, Jack. Did you use the Ranger audio system to
> drive the 813s?

Roger. I started a thread earlier on using 813's as triodes and it was like falling off a log. The modulator consists of a very small chassis with a fil trans, tube sockets and a meter. This sits next to the mod iron on a wood deck. I like the idea of the mod iron isolated from ground.

> Such a project is never really "finished", because there are
> always new ideas and parts to be tried out.

Roger again. I want to eliminate the Ranger for one thing starting with the audio. I bought a 4W audio pre-amp and when I get tired of playing with the new rig I want to see if this will drive the 813's. I need some ideas on interfacing the two... some sort of interstage audio transformer I suppose.

Then, a simple xtal controlled exciter would be fun.

No end is there?

JACK K9ACT

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

From -1961750448341637052
X-Google-Thread: fc2a5,75ca09f1609884e1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news1.google.com!news.maxwell.syr.edu!sn-xt-sjc-05!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How-to question...
Date: Thu, 1 Mar 2007 06:11:17 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12udgnbpjcjcifd@corp.supernews.com>
References: <12u7iptqqq51ef2@corp.supernews.com>
<1172571850.399326.276830@v33g2000cwv.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Complaints-To: abuse@supernews.com
Lines: 36
Xref: g2news2.google.com rec.radio.amateur.homebrew:9217

<N2EY@AOL.COM> wrote in message
news:1172571850.399326.276830@v33g2000cwv.googlegroups.com...
On Feb 27, 1:10?am, "Dave" <db5...@hotmail.com> wrote:
> Need to wind a toroid with a center-tap. Have seen this somewhere, but
> can't remember where and can't find it. Anyone know how to easily wind a
> tap into a toroid? Am thinking maybe put a loop at that point with a twist
> in the wire to keep it from slipping back onto the toroid and loosening
> the
> other windings. Anybody have any ideas on this?
>

Besides a bifilar winding, which has already been suggested, try this:

Start at the middle and work towards the ends.

Say you need 10 turns center tapped. Take a piece of
wire long enough for 10 turns, find the exact halfway point,
scrape off the insulation there and make a twist. Then put the twist
on the outside of the core, and wind one end 5 turns one way around
the core, and the other end 5 turns the other way.

Or, use two pieces of wire long enough for 5 turns, Wind the first
one, bring its end out, twist/splice to the second one, wind 5 more
turns.

73 de Jim, N2EY

Gotcha. I am new enough at winding toroids that I am probably going t use
the bifilar winding technique, which seems like it might be more forgiving
if I need to make adjustments afterward (correct me if I'm wrong.) But I
understand what you are saying here, and appreciate your input. Thanks
much. Once I get more adept this is what I will do.

Dave

From -7211267910994147047
X-Google-Thread: fc2a5,75ca09f1609884e1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!newshub.sdsu.edu!
news.astraweb.com!router1.astraweb.com!sn-xt-sjc-05!sn-xt-sjc-09!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How-to question...

Date: Thu, 1 Mar 2007 06:17:32 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12udh33ofd3ed8@corp.supernews.com>
References: <12u7iptqqq51ef2@corp.supernews.com> <1vSdnYFxBvX3eH7YnZ2dnUVZ8s-qnZ2d@pipex.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Complaints-To: abuse@supernews.com
Lines: 27
Xref: g2news2.google.com rec.radio.amateur.homebrew:9218

"Highland Ham" <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote in message
news:1vSdnYFxBvX3eH7YnZ2dnUVZ8s-qnZ2d@pipex.net...
>> Need to wind a toroid with a center-tap. Have seen this somewhere, but
>> can't remember where and can't find it. Anyone know how to easily wind a
>> tap into a toroid? Am thinking maybe put a loop at that point with a
>> twist in the wire to keep it from slipping back onto the toroid and
>> loosening the other windings. Anybody have any ideas on this?
> ======================
> A bi-filar winding A-a and B-b . Connect a to B (that's the centre)
> Number of turns is half the total required. A and b are obviously the end
> connections.
> So a toroid requiring 10 turns with a centre needs 5 bi-filar turns.
>
> Frank   KN6WH / GM0CSZ

Gotcha! (I think.) So I should wind half my turns with A to a, then
connect a to B and wind the other half. Have I got that right? Or do I
Wind A to a and then wind B to b over that (not actually connecting one to
the other), using B as my CT? (When I first read this that's what I thought
you were talking about, but now am wondering...)

Thanks for help,

Dave

From 5006203865834636644
X-Google-Thread: fc2a5,75ca09f1609884e1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news1.google.com!news.germany.com!aioe.org!fmmck
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How-to question...
Date: Thu, 01 Mar 2007 12:54:41 -0500

Organization: Aioe.org NNTP Server
Lines: 25
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References: <12u7iptqqq51ef2@corp.supernews.com> <1vSdnYFxBvX3eH7YnZ2dnUVZ8s-qnZ2d@pipex.net> <12udh33ofd3ed8@corp.supernews.com>
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User-Agent: MT-NewsWatcher/3.5.2 (Intel Mac OS X)
Xref: g2news2.google.com rec.radio.amateur.homebrew:9219

In article <12udh33ofd3ed8@corp.supernews.com>,
"Dave" <db5151@hotmail.com> wrote:

> Gotcha! (I think.) So I should wind half my turns with A to a, then
> connect a to B and wind the other half. Have I got that right? Or do I
> Wind A to a and then wind B to b over that (not actually connecting one to
> the other), using B as my CT?

Dave-

How critical is your center tap? If it important that the tap be perfectly centered, it would be better to use one bi-filar winding instead of the two separate windings you describe.

If possible, spread the turns out over the toroid so the end is next to the beginning, so the center tap can be easily connected.

If there are a lot of turns using small wire, you can first wind the wire pair onto a shuttle (a long, skinny flat spool). Then unwind it from the shuttle while passing it through the toroid. With lots of turns, it might help if the two wires were different colors. Otherwise you would need an Ohmmeter to determine which is which.

Fred
K4DII

From -130681610230663291
X-Google-Thread: fc2a5,75ca09f1609884e1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!newshub.sdsu.edu!headwall.stanford.edu!newshub.stanford.edu!newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-02!sn-xt-sjc-08!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How-to question...
Date: Thu, 1 Mar 2007 18:10:01 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12ueqqvp8u212c5@corp.supernews.com>
References: <12u7iptqqq51ef2@corp.supernews.com> <1vSdnYFxBvX3eH7YnZ2dnUVZ8s-qnZ2d@pipex.net> <12udh33ofd3ed8@corp.supernews.com> <fmmck-

E8AB59.12544101032007@nntp.aioe.org>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Complaints-To: abuse@supernews.com
Lines: 60
Xref: g2news2.google.com rec.radio.amateur.homebrew:9220

"Fred McKenzie" <fmmck@aol.com> wrote in message
news:fmmck-E8AB59.12544101032007@nntp.aioe.org...
> In article <12udh33ofd3ed8@corp.supernews.com>,
> "Dave" <db5151@hotmail.com> wrote:
>
>> Gotcha! (I think.) So I should wind half my turns with A to a, then
>> connect a to B and wind the other half. Have I got that right? Or do I
>> Wind A to a and then wind B to b over that (not actually connecting one
>> to
>> the other), using B as my CT?
>
> Dave-
>
> How critical is your center tap? If it important that the tap be
> perfectly centered, it would be better to use one bi-filar winding
> instead of the two separate windings you describe.
>
> If possible, spread the turns out over the toroid so the end is next to
> the beginning, so the center tap can be easily connected.
>
> If there are a lot of turns using small wire, you can first wind the
> wire pair onto a shuttle (a long, skinny flat spool). Then unwind it
> from the shuttle while passing it through the toroid. With lots of
> turns, it might help if the two wires were different colors. Otherwise
> you would need an Ohmmeter to determine which is which.
>
> Fred
> K4DII

Hey Fred,

Actually, I realized after I posted that last one that it is not actually a "center" tap. It is tap about 20 to 25 % up from the start, in a 2 uH coil. The original plan called for an 8-turn (on a 1.5 in form) air core coil with the tap on the second turn, but I am wanting to modify that to use two switchable coils with as little interference between them as possible, thus the toroids rather than air-core coils. My calculations tell me that a 2 uH coil (on an Amidon T-50-2 toroidal core) would have 22+ turns, so I am guessing the tap would be around 5 or 6 turns. Question: could I wind the first coil (for 2 uH) and then overlay it with the second (for the five or six turns), connecting them at the beginning and hooking up their respective ends to the appropriate components? If desired, I can upload the schematic

I am wanting to modify. It is the oscillator described in the Hands-on-Radio column of QST in the Aug/Sep/Oct/Nov issues (experiments #43/44/45/46 in the series.) The original idea was a Hartley osc. that ended up becoming a crystal-controlled transmiter for the 40 meter band, but I am wanting to use the osc to build a makeshift signal generator for testing another project. (I don't have a signal generator currently, thus the attempt at building a makeshift one.)

Apologies if this is too confused. I am obviously a newbie. If all of this is so far off-base as to be hopeless, just tell me so and I'll try not to bother again.

Thanks,

Dave

```
From 7709582429562305997
X-Google-Thread: fc2a5,75ca09f1609884e1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!30g2000cwc.googlegroups.com!not-for-
mail
From: N2EY@AOL.COM
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How-to question...
Date: 2 Mar 2007 02:50:07 -0800
Organization: http://groups.google.com
Lines: 27
Message-ID: <1172832607.573200.200180@30g2000cwc.googlegroups.com>
References: <12u7iptqqq51ef2@corp.supernews.com>
   <1172571850.399326.276830@v33g2000cwv.googlegroups.com>
   <12udgnbpjcjcifd@corp.supernews.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 2 Mar 2007 10:50:13 +0000 (UTC)
In-Reply-To: <12udgnbpjcjcifd@corp.supernews.com>
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aa07.proxy.aol.com[CDBC740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: 30g2000cwc.googlegroups.com; posting-host=205.188.116.11;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news2.google.com rec.radio.amateur.homebrew:9221
```

On Mar 1, 7:11=EF=BF=BDam, "Dave" <db5...@hotmail.com> wrote:

>=A0I am new enough at winding toroids that I am probably going t use
> the bifilar winding technique, which seems like it might be more forgiving
> if I need to make adjustments afterward (correct me if I'm wrong.)

IMHO, the bifilar technique is more difficult and harder to
adjust.

Also, a bifilar winding used as a center-tapped coil will have
higher inter-winding capacitance and a lower self-resonant
frequency.

One thing to remember about toroids is that you can always take
all the wire off and start over.

Perhaps the best idea is to try all the methods and see
which works best for you.

>=A0But I
> understand what you are saying here, and appreciate your input. =A0Thanks
> much. Once I get more adept this is what I will do.

You're welcome. Good luck.

73 de Jim, N2EY

From -5311226927419734O2
X-Google-Thread: fc2a5,80633577b06ab72f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h3g2000cwc.googlegroups.com!not-for-mail
From: "Telstar Electronics" <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Electret Condenser Mic Question
Date: 2 Mar 2007 06:04:13 -0800
Organization: http://groups.google.com
Lines: 12
Message-ID: <1172844253.192244.24380@h3g2000cwc.googlegroups.com>
References: <88zEh.14108$sv6.184@trndny08>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172844269 9386 127.0.0.1 (2 Mar 2007 14:04:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 2 Mar 2007 14:04:29 +0000 (UTC)
In-Reply-To: <88zEh.14108$sv6.184@trndny08>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)

Complaints-To: groups-abuse@google.com
Injection-Info: h3g2000cwc.googlegroups.com; posting-host=216.203.30.4;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news2.google.com rec.radio.amateur.homebrew:9222

On Feb 26, 5:03 am, "Spin" <noem...@alone.invalid> wrote:
> I have a headset electret condenser mic that has a low frequency response.
> Other than changing the element is there a means of getting a higher
> frequency response?

It's most likely not the mic causing that issue. Most condenser mics have a great freq response. You should look at the circuit and zero in on any RC filtering that may be taking place... giving you that "bassy" sound.

www.telstar-electronics.com

From -8321604710354421211
X-Google-Thread: fc2a5,ef5406dd4f13fbd5,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!z35g2000cwz.googlegroups.com!not-for-mail
From: "Telstar Electronics" <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: VoiceMax Speech Processor Module...
Date: 2 Mar 2007 06:08:18 -0800
Organization: http://groups.google.com
Lines: 5
Message-ID: <1172844498.746933.257890@z35g2000cwz.googlegroups.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172844509 30328 127.0.0.1 (2 Mar 2007 14:08:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 2 Mar 2007 14:08:29 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: z35g2000cwz.googlegroups.com; posting-host=216.203.30.4;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news2.google.com rec.radio.amateur.homebrew:9223

The VoiceMax project is progressing on schedule and a product release date has been set. I invite all of you to keep abreast of the continuing progress with this product at http://www.telstar-electronics.com/default_files/NewProductDevelopment.htm

From -4718840934398262152
X-Google-Thread: fc2a5,44732bd59d1321aa,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p10g2000cwp.googlegroups.com!not-for-mail
From: "OH1GTF" <spam99@suomi24.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: PowerSDR, SDRADIO etc - demodulation possible using only I or Q, why?
Date: 2 Mar 2007 10:19:46 -0800
Organization: http://groups.google.com
Lines: 16
Message-ID: <1172859586.708320.189630@p10g2000cwp.googlegroups.com>
NNTP-Posting-Host: 85.76.254.196
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-15"
X-Trace: posting.google.com 1172859604 5866 127.0.0.1 (2 Mar 2007 18:20:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 2 Mar 2007 18:20:04 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; fi; rv:1.8.0.10) Gecko/20070216 Firefox/1.5.0.10,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p10g2000cwp.googlegroups.com; posting-host=85.76.254.196;
   posting-account=KeA5zw0AAAA9p-GA2UD_ncK8cLQmQtqO
Xref: g2news2.google.com rec.radio.amateur.homebrew:9224

Hello mates!

I'm really confused. I just built an I/Q based transceiver (mostly following the Youngblood articles) and just noticed that when I'm using either PowerSDR or sradio, I can still demodulate everything if I plug I or Q connector off from the rx.

I thought that PowerSDR and Sradio are both IQ based softwares. Is it done just by mixing the audio to baseband. Where those programs need the phase relation between I and Q. Yet, I noticed that putting the other component back, the reception improved many db.

Looking for some answers. Thank you!

73 de Janne, OH1GTF

From 2805079036757136081
X-Google-Thread: fc2a5,80633577b06ab72f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!z35g2000cwz.googlegroups.com!not-for-mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Electret Condenser Mic Question
Date: 2 Mar 2007 10:54:56 -0800
Organization: http://groups.google.com
Lines: 29
Message-ID: <1172861696.908855.91550@z35g2000cwz.googlegroups.com>
References: <88zEh.14108$sv6.184@trndny08>
   <1172844253.192244.24380@h3g2000cwc.googlegroups.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172861713 11521 127.0.0.1 (2 Mar 2007 18:55:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 2 Mar 2007 18:55:13 +0000 (UTC)
In-Reply-To: <1172844253.192244.24380@h3g2000cwc.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-ntc-ta09.proxy.aol.com[CFC8702D] (Prism/1.1.9), HTTP/1.1 cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: z35g2000cwz.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:9225

On Mar 2, 6:04?am, "Telstar Electronics" <briangrif...@sbcglobal.net>
wrote:
> On Feb 26, 5:03 am, "Spin" <noem...@alone.invalid> wrote:
>
> > I have a headset electret condenser mic that has a low frequency response.
> > Other than changing the element is there a means of getting a higher
> > frequency response?
>
> It's most likely not the mic causing that issue. Most condenser mics
> have a great freq response. You should look at the circuit and zero in
> on any RC filtering that may be taking place... giving you that
> "bassy" sound.
>
> www.telstar-electronics.com

Quite true on wideband audio response and the necessary amplification that must follow it.

Working around stray RF fields can cause other problems around electret microphones. They are inherently high-impedance so one has to pay attention to the VLF and up stray RF because of that high impedance...especially if using newer op-amps or other active devices having high frequency amplification. It is a compromise in design: attenuate the VLF and above response but hold the microphone amplifier response flat out to at least 10 KHz.

LenAnderson@ieee.org

```
From 5882475856498456798
X-Google-Thread: fc2a5,75ca09f1609884e1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!z35g2000cwz.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How-to question...
Date: 2 Mar 2007 11:22:20 -0800
Organization: http://groups.google.com
Lines: 56
Message-ID: <1172863340.376334.165090@z35g2000cwz.googlegroups.com>
References: <12u7iptqqq51ef2@corp.supernews.com>
   <1172571850.399326.276830@v33g2000cwv.googlegroups.com>
   <12udgnbpjcjcifd@corp.supernews.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1172863352 24489 127.0.0.1 (2 Mar 2007 19:22:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 2 Mar 2007 19:22:32 +0000 (UTC)
In-Reply-To: <12udgnbpjcjcifd@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-ta09.proxy.aol.com[CFC8702D] (Prism/1.1.9), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: z35g2000cwz.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:9226
```

On Mar 1, 4:11=EF=BF=BDam, "Dave" <db5...@hotmail.com> wrote:

>=A0I am new enough at winding toroids that I am probably going t use
> the bifilar winding technique, which seems like it might be more forgiving
> if I need to make adjustments afterward (correct me if I'm wrong.) =A0But=
 I
> understand what you are saying here, and appreciate your input. =A0Thanks
> much. Once I get more adept this is what I will do.

Here's a suggestion that's an old one when I first tried it (successfully) 30 years ago on multi-filar windings: Get an old hand-operated drill (electric if it has slow speed), lay out equal lengths of magnet wire, tape one end of the bundle securely, chuck the other end in the drill and do the twisting. Pause several times while doing so to make sure there aren't any sharp twists along the way, "iron" those out with fingers. You can get an idea of the number of twists per inch (or meter or whatever) as you pause...for wideband RF transformers the number of twists per unit length need only be approximate. What you wind up with (no pun intended) is the equivalent of multi-wire balanced transmission lines of relatively low impedance and the total length would be roughly a quarter-wavelength at the highest frequency of such a transformer.

However, if you are doing a tap for a lower-impedance point such as an oscillator feedback or impedance in/out, the physical tap position doesn't have to be precise or absolute (lots of other factors will be involved there). Just get as close as you can to published data/article on tap position and you'll be okay. Winding toroids may be new to lots of folks but all it takes is more patience than with old-style cylindrical forms.

I might add that, once a circuit is working with a toroid, it can be secured by using some petroleum-based varnish lightly brushed over it. Most "boat" or "spar" varnish types are good for that but one is stuck with having to buy quart cans of it (rather expensive). The reason I mention marine varnish is that it stands up to moisture in the air. If you use "Q Dope" (liquid form polystyrene) it looks very nice when done but a year from now the moisture normally in room air can "lift" it from non-porous surfaces. On testing with MF to UHF Q Meters, there is no more degredation of Q using varnish than with liquid polystyrene or lacquers. I use the McCloskey brand "Gym-Seal" varnish because that is also good for wood surfaces around the house; it was originally formulated as a surface varnish for gymnasium floors and the like. Takes at least an over-night drying time with a complete cure in two days.

LenAnderson@ieee.org

From -5467251491969320779
X-Google-Thread: fc2a5,de77a4fe6855f17e,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 02 Mar 2007 13:33:07 -0600
From: Mike <nomtrxspam@comcast.net>
Newsgroups: rec.radio.amateur.homebrew

Subject: Paralel resonant circuit tuning range calculator program.
Date: Fri, 02 Mar 2007 14:33:07 -0500
Organization: Mtronix
Message-ID: <crtgu25a7vjcg7hf4asgp8t8sv46u8mag4@4ax.com>
X-Newsreader: Forte Agent 2.0/32.652
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 17
NNTP-Posting-Host: 68.58.129.112
X-Trace: sv3-fXcK8P2hhEuC8G8Zb8W7ipG2kdX0pU2fmYnr3fDMFN+KmS76SHjkKRnWdgXO5KR4LUi8xJU4eNz2cNT!KWpopo+6OB8VeAY59oqaYxxIK/sgqtmVYGkMpNgPBXmYZ2Gp9lgqhG1adVvJ77CyDTvycFmHX4CX!ME4wQE+4Cxo=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.34
Xref: g2news2.google.com rec.radio.amateur.homebrew:9227

I posted a small windows program in alt.binaries.schematics.electronic that some here may find useful.
The subject line to look for is "Paralel resonant circuit tuning range calculator program. -
TuningRangeCalc.zip (0/1)".
As the name implies it calculates and displays the resulting capacitance range and resonant frequency range
for a parallel resonant circuit using a main variable capacitor along with padder and trimmer capacitors. The
values for the parts are set with a set of slider controls and the results are displayed as the sliders are
moved.

Mike

"The scientist is possessed by the sense of universal
causation...His religious feeling takes the form of
rapturous amazement at the harmony of natural law,
which reveals the intelligence of such superiority
that, compared with it, systematic thinking and acting
of human beings is an utterly insignificant reflection."
Albert Einstein (theoretical physicist)

From 4475078616938078206
X-Google-Thread: fc2a5,22b0d8cb531090f0,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe12.lga.POSTED!53ab2750!not-for-mail
From: Jeff James <w2nbc@optonline.net>

User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Buy and Sell Tube Gear!
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 6
Message-ID: <Ml1Gh.665$sT3.534@newsfe12.lga>
Date: Fri, 02 Mar 2007 17:15:09 -0500
NNTP-Posting-Host: 68.196.6.3
X-Complaints-To: abuse@cv.net
X-Trace: newsfe12.lga 1172873708 68.196.6.3 (Fri, 02 Mar 2007 15:15:08 MST)
NNTP-Posting-Date: Fri, 02 Mar 2007 15:15:08 MST
Organization: Optimum Online
Xref: g2news2.google.com rec.radio.amateur.homebrew:9228

The Boatanchor Classifieds..
Free classifieds dedicated to vintage radios that are hard to lift!

http://www.dealamerica.com/deal/cgi-bin/ads/bcads.cgi

Thanks for your support..

From -6880781487458701396
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!365e5531!not-for-mail
From: Thomas Horne <hornetd@mindspring.com>
Reply-To: hornetd@gmail.com
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: Now that CW is gone there will be more ham to non-ham conflicts.
References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
<1172267318.119745.218720@t69g2000cwt.googlegroups.com>
<45df8787$0$28161$4c368faf@roadrunner.com>
<1172303818.483077.293990@8g2000cwh.googlegroups.com>
<N6OdnYlWMeu52X3YnZ2dnUVZ_urinZ2d@comcast.com>
<2ofEh.5556$_73.4898@newsread2.news.pas.earthlink.net>
<1172500609.961208.223080@q2g2000cwa.googlegroups.com>
In-Reply-To: <1172500609.961208.223080@q2g2000cwa.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 64
Message-ID: <%u7Gh.8269$tD2.7950@newsread1.news.pas.earthlink.net>
Date: Sat, 03 Mar 2007 05:14:35 GMT

```
NNTP-Posting-Host: 68.166.69.202
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1172898875 68.166.69.202 (Fri, 02 Mar
2007 21:14:35 PST)
NNTP-Posting-Date: Fri, 02 Mar 2007 21:14:35 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:9229
rec.radio.amateur.misc:29666 rec.radio.amateur.policy:67297

ORALFIXATION6996 wrote:
> On Feb 25, 7:35 am, Billy Smith <chungkingchungk...@yahoo.com> wrote:
>> NoMoreSpam wrote:
>>> terry wrote:
>>>> On Feb 23, 9:32 pm, "Stefan Wolfe" <ste...@eml.com> wrote:
>>>>> I think it would have been sufficient to punctuate your sentence with
>>>>> just 3
>>>>> question marks. Four question marks seems a bit excessive, agree???
>>>> Nah. The number of question marks is immaterial and avoids the
>>>> contentious and intolerant (rant?) of the OP. Such comments very
>>>> divisive to the the Amateur Radio hobby; IMHO.
>>>> Might one not think such an intolerant (possibly also an elitist?)
>>>> attitude by a serving (already licensed) radio amateur does not augur
>>>> well for the future of the hobby. Not sure as a newcomer I'd want to
>>>> join a group with members who have that 'unkind' attitude!
>>>> Previously noticing some other intolerant (even vituperative) comments
>>>> would not be surprised they may tend to give outsiders a view of an
>>>> outdated, closed knit clan/society. Old codgers still using spark
>>>> transmitters and coherer receivers, pounding away in their dimly lit
>>>> shacks late at night and boasting about how many countries they have
>>>> contacted for 500 milliseconds per contact; and please QSL.
>>>> QSLs via the Internet these days I presume?
>>>> Total four (4) question marks; used one at a time!
>>>> Rather than portray Amateur Radio as open, welcoming to younger
>>>> newcomers and new modes of communication/trends.
>>>> No wonder the hobby is, in the opinion of some, dying?
>>> RIGHT, don't be an "elitist." Be a moron like the rest of the no-coders
>>> so you will fit in.
>> As far as a moron you should best look at yourself. You would fit the
>> bill of an uneducated piece of trash.- Hide quoted text -
>>
>> - Show quoted text -
>
> I`ve been a Ham since 1975 and seen this kind of talk before. You 2
> are the ones destroying Ham Radio. Yes ham radio is alive but not
> well. The numbers are dropping and the age of us Hams are getting
> older. Soon if we don`t attract younger people in it will be a dying
> hobby. Code is important yes but not totally necessary. There are
> other ways of encouraging young people to become hams. Code can be
> part of it as well as the computer end. Why not be like the Boy Scouts
> have HAm Radio clubs in schools from grades 1 and up and in churches
> or the YMCA/YWCA with volunteers.
>
> Rather than bash each others heads and stoop so low as calling  each
```

> other names why not put your heads together and think of positive ways
> to bring new people into the fold !
>

I hesitate to put an oar in because I'm one of the brand new Hams. We managed to get two dozen people to a one weekend tech class that were mostly drawn from the membership of Community Emergency Response Teams.
I think that the service can be alive and well if it continues to adapt itself to public need rather than to individual preferences no matter how strong.

Having said that I will now admit that I was somewhat disappointed by the ease with which I passed the exam. I had a novice license back around 1973. At that time you had to pass the general theory to get a technician class license. Obviously that is no longer true.

Now at the risk of being dangerously on topic let me ask the question I came here to ask in a new thread.

--

Tom Horne, KB3OPR

```
From -5861703588418695838
X-Google-Thread: fc2a5,44732bd59d1321aa
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s48g2000cws.googlegroups.com!not-for-
mail
From: "OH1GTF" <spam99@suomi24.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PowerSDR, SDRADIO etc - demodulation possible using only I or Q, why?
Date: 3 Mar 2007 00:27:30 -0800
Organization: http://groups.google.com
Lines: 15
Message-ID: <1172910450.301701.122550@s48g2000cws.googlegroups.com>
References: <1172859586.708320.189630@p10g2000cwp.googlegroups.com>
NNTP-Posting-Host: 85.76.254.196
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172910455 8376 127.0.0.1 (3 Mar 2007 08:27:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Mar 2007 08:27:35 +0000 (UTC)
In-Reply-To: <1172859586.708320.189630@p10g2000cwp.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; fi; rv:1.8.0.10) Gecko/
20070216 Firefox/1.5.0.10,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s48g2000cws.googlegroups.com; posting-host=85.76.254.196;
   posting-account=KeA5zw0AAAA9p-GA2UD_ncK8cLQmQtqO
Xref: g2news2.google.com rec.radio.amateur.homebrew:9230
```

One thing I want to add. I have built tayloe detector polyphase network receiver before and I know,

that we need I and Q to cancel out the image. But how the heck AM and
FM is done?

I just have a glue, that the I or Q signal is mixed to a higher
frequency and detected in traditional way,
but in software. Though, is there reason to mix it to a higher
frequencyif we are doing it in software?
Ok, that was the glue about FM, but AM, I can't even have a glue...

Thanks,

Janne, OH1GTF

From 6773968622802167067
X-Google-Thread: fc2a5,44732bd59d1321aa
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p10g2000cwp.googlegroups.com!not-for-mail
From: "MadEngineer" <glenn.b.dixon@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PowerSDR, SDRADIO etc - demodulation possible using only I or Q, why?
Date: 3 Mar 2007 01:48:43 -0800
Organization: http://groups.google.com
Lines: 48
Message-ID: <1172915323.383641.258370@p10g2000cwp.googlegroups.com>
References: <1172859586.708320.189630@p10g2000cwp.googlegroups.com>
NNTP-Posting-Host: 67.177.9.30
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172915332 20529 127.0.0.1 (3 Mar 2007 09:48:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Mar 2007 09:48:52 +0000 (UTC)
In-Reply-To: <1172859586.708320.189630@p10g2000cwp.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.10)
Gecko/20070216 Firefox/1.5.0.10,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p10g2000cwp.googlegroups.com; posting-host=67.177.9.30;
   posting-account=EvBMNw0AAABX-Et6w0086s4DXqrY-API
Xref: g2news2.google.com rec.radio.amateur.homebrew:9231

On Mar 2, 11:19 am, "OH1GTF" <spa...@suomi24.fi> wrote:
> Hello mates!
>
> I'm really confused. I just built an I/Q based transceiver (mostly
> following the Youngblood articles) and just noticed that when I'm
> using either PowerSDR or sradio, I can still demodulate everything if
> I plug I or Q connector off from the rx.
>
> I thought that PowerSDR and Sradio are both IQ based softwares. Is it

> done just by mixing the audio to baseband. Where those programs need the phase relation between I and Q. Yet, I noticed that putting the other component back, the reception improved many db.
>
> Looking for some answers. Thank you!
>
> 73 de Janne, OH1GTF

Hi Janne,

I and Q each contain all received signals, and unless your ears are better than mine you can't really tell whether you're listening to I alone, Q alone or the full demodulated signal. I and Q are needed together to determine whether the signals demodulate into the upper or lower sideband, so if you have signals spread equally across the band, listening to only one of the channels will fold the upper and lower sideband signals together and you will receive twice as many signals in a given bandwidth. This is the same as a simple DC receiver. Note that your spectrum display will be symmetrical about the baseband frequency if you disconnect one channel--all signals appear twice--in the upper and lower sidebands.

In theory, I and Q each contain half the received power, and if only one channel is present you spread the 3 dB reduced power to two places (upper and lower sideband) so you will see a 6 dB total loss with respect to the fully demodulated signal when you disconnect one channel.

AM and FM demodulation can be done in software regardless of whether the signal is mixed to a higher audio frequency (say, 11 KHz as some SDRs do), or mixed right to baseband. For AM at least, the demodulation algorithm is probably a little simpler when mixed to baseband. For FM likely the opposite is true. Once you understand the nature of IQ demodulation a little better the AM and FM demodulation algorithms may become self-apparent to you.

73,
Glenn AC7ZN

From -7456908411649073882
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe16.lga.POSTED!53ab2750!not-for-mail
From: "KH6HZ" <kh6hzA@Tarrl.net>
Newsgroups:

rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net>
<1172267318.119745.218720@t69g2000cwt.googlegroups.com>
<45df8787$0$28161$4c368faf@roadrunner.com>
<1172303818.483077.293990@8g2000cwh.googlegroups.com>
<N6OdnYlWMeu52X3YnZ2dnUVZ_urinZ2d@comcast.com>
<2ofEh.5556$_73.4898@newsread2.news.pas.earthlink.net>
<1172500609.961208.223080@q2g2000cwa.googlegroups.com>
<%u7Gh.8269$tD2.7950@newsread1.news.pas.earthlink.net>
Subject: Re: Now that CW is gone there will be more ham to non-ham conflicts.
Lines: 36
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <P5dGh.45307$TF4.35991@newsfe16.lga>
Date: Sat, 3 Mar 2007 06:39:19 -0500
NNTP-Posting-Host: 68.14.147.206
X-Complaints-To: admin@cox.net
X-Trace: newsfe16.lga 1172921839 68.14.147.206 (Sat, 03 Mar 2007 04:37:19 MST)
NNTP-Posting-Date: Sat, 03 Mar 2007 04:37:19 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:9232
rec.radio.amateur.misc:29668 rec.radio.amateur.policy:67302

"Thomas Horne" <hornetd@mindspring.com> wrote:

> I hesitate to put an oar in because I'm one of the brand new Hams.

Congrats and welcome back!

> I think that the service can be alive and well if it continues to adapt
> itself to public need rather than to individual preferences no matter how
> strong.

Personally, I think the service needs to stop focusing on raw numbers of licensed hams, and instead on the *quality* of those hams licensed. I would rather have 5 hams licensed who are interested in antenna theory, emergency communications, etc., rather than 10 hams who are interested in using ham radio as a cheap cell phone.

> Having said that I will now admit that I was somewhat disappointed by the
> ease with which I passed the exam. I had a novice license back around
> 1973. At that time you had to pass the general theory to get a technician
> class license. Obviously that is no longer true.

The current structure of the theory examinations is a joke. They really do nothing to ensure the applicant has a through knowledge of the topical material. For example, you could have failed each and every question on rules and regulations, and yet still obtained your license, simply because you know math well. This is not, IMO, a good thing. We are, however, unlikely to see this change for the positive, and highly likely to see the theory examinations weakened further as we move to a "simply mail in your 605, no exam needed" ham radio of the future.

73
kh6hz

From 4192501320001744398
X-Google-Thread: fc2a5,e5c95f770c8ed9f
X-Google-Thread: 107ada,fcf33c91202a609f
X-Google-Thread: 10bf43,fcf33c91202a609f
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news.nonexiste.net!news.nonexiste.net!news.linuxfan.it!linuxfan.it!nnrp.linuxfan.it!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: Now that CW is gone there will be more ham to non-ham conflicts.
Date: Sat, 03 Mar 2007 10:07:29 -0800
Organization: linuxfan.it News Server
Lines: 32
Message-ID: <escdgn$ck6$1@nnrp.linuxfan.it>
References: <IfrDh.5511$Jl.3211@newsread3.news.pas.earthlink.net> <1172267318.119745.218720@t69g2000cwt.googlegroups.com> <45df8787$0$28161$4c368faf@roadrunner.com> <1172303818.483077.293990@8g2000cwh.googlegroups.com> <N6OdnYlWMeu52X3YnZ2dnUVZ_urinZ2d@comcast.com> <2ofEh.5556$_73.4898@newsread2.news.pas.earthlink.net> <1172500609.961208.223080@q2g2000cwa.googlegroups.com> <%u7Gh.8269$tD2.7950@newsread1.news.pas.earthlink.net> <P5dGh.45307$TF4.35991@newsfe16.lga>
NNTP-Posting-Host: 66-81-63-93.nocal.dialup.o1.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: nnrp.linuxfan.it 1172945240 12934 66.81.63.93 (3 Mar 2007 18:07:20 GMT)
X-Complaints-To: abuse@linuxfan.it
NNTP-Posting-Date: Sat, 3 Mar 2007 18:07:20 +0000 (UTC)
In-Reply-To: <P5dGh.45307$TF4.35991@newsfe16.lga>
User-Agent: Thunderbird 1.5.0.10 (Windows/20070221)
Xref: g2news2.google.com rec.radio.amateur.homebrew:9233 rec.radio.amateur.misc:29671 rec.radio.amateur.policy:67337

KH6HZ wrote:

> ...
> Personally, I think the service needs to stop focusing on raw numbers of
> licensed hams, and instead on the *quality* of those hams licensed. I would

> rather have 5 hams licensed who are interested in antenna theory, emergency
> communications, etc., rather than 10 hams who are interested in using ham
> radio as a cheap cell phone.

Give me quantity. Antenna "theory" has not changed in 50 years, it is a given--a "known" in its present state. We need mind to come up with new ideas, apply newly discovered physics and give us something new to work with.

> The current structure of the theory examinations is a joke. They really do
> nothing to ensure the applicant has a through knowledge of the topical
> material. For example, you could have failed each and every question on
> rules and regulations, and yet still obtained your license, simply because
> you know math well. This is not, IMO, a good thing. We are, however,
> unlikely to see this change for the positive, and highly likely to see the
> theory examinations weakened further as we move to a "simply mail in your
> 605, no exam needed" ham radio of the future.
>
> 73
> kh6hz

What do they need to know to grab their rig, coax and antenna off ebay and begin in the amateur bands, oh yeah, and know band limits and modes.

JS
--
http://assemblywizard.tekcities.com

```
From -670033471543812381
X-Google-Thread: fc2a5,49f916e344873b4d,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!t69g2000cwt.googlegroups.com!not-for-
mail
From: "Day Brown" <daybrown@hughes.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Long range rural wireless high speed data options...
Date: 3 Mar 2007 10:37:18 -0800
Organization: http://groups.google.com
Lines: 42
Message-ID: <1172947038.139960.11470@t69g2000cwt.googlegroups.com>
NNTP-Posting-Host: 67.142.130.37
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172947045 31826 127.0.0.1 (3 Mar 2007 18:37:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Mar 2007 18:37:25 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.4) Gecko/20031119
Debian/1.4.0.x.1-20,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: t69g2000cwt.googlegroups.com; posting-host=67.142.130.37;
```

posting-account=6MK0NA0AAABKFZ-ktqBSHiBm1y9kT6gs
Xref: g2news2.google.com rec.radio.amateur.homebrew:9234

Without clear Line Of Sight do not exist. I intend to solve that problem. If I do, I'll get rich. The equipment now being offered is not deigned by people who live in rural ares, but engineers who, at best, are in suburban office parks.

Right now, I'm using the satellite data from hughes.net. Its not the high speed bandwidth advertised. The power supply was designed to be plugged into the wall. [that's a period] But if you live out here, you know the power goes out. but if you plug their power supply into your UPS, you find the damn thing blocks the next two backed up power outlets. Hello?

I've tried the 900mhz wireless transceiver. which needs a clear LOS (Line of Sight). I like living in the woods; and I'm not going to clearcut just so I can get a clear line of sight to the ISP transmitter tower. Hello?

I also have a place in a deep hollow by a spring fed trout stream. No way will any of the commecially available wireless transmitters work down there. You cant even use a cell phone. Hello?

No, I'm thinking about 180 mhz, kinda close to TV channel 8, but... out here, the nearest TV channel 8 transmitter is 300 miles away. Besides, TV antennas are being scrapped all the time; everyone is switching to Dish TV. Out in rural areas, RFI/EMI from ham gear no longer bothers anyone watching TV.

Besides, seems like there mite be pulse emitters/detectors that work at this speed. No Carrier wave, no IF. Technically, its *NOT* "radio". Ordinary tuners would ignore it; it aint AM nor FM. A 12 db antenna would be about 13' foot long. Awta go 30 miles to an ISP in some town that stays up serving users on the weekends. I've tried all three of the local small town ISPs, which have a nasty habit of crashing on friday nite, and not coming back online til monday morning.

I called "support" one time to bitch, and mentioned that I used Linux. The response: "What's Linux?"

But what's the best option to go from full duplex into the PC? will the standard LAN multiplex at 180mhz? RS232?

From 4543268514268564307
X-Google-Thread: fc2a5,49f916e344873b4d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!

nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 03 Mar 2007 12:54:16 -0600
Date: Sat, 03 Mar 2007 13:54:15 -0500
From: Jake Brodsky <ab3a@cNo0mScPaAsMt.net>
User-Agent: Thunderbird 1.5.0.9 (X11/20070212)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Long range rural wireless high speed data options...
References: <1172947038.139960.11470@t69g2000cwt.googlegroups.com>
In-Reply-To: <1172947038.139960.11470@t69g2000cwt.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <LfGdnfmmw9_FWXTYnZ2dnUVZ_q-vnZ2d@comcast.com>
Lines: 32
NNTP-Posting-Host: 69.243.117.231
X-Trace: sv3-
ZJGhXyLtkg0833BhvhUMVKb6K24tlLTfYD4KHlgjx+RgZrGd3ShOySaQWEHqWGvj3U8Iy/hmc4Zrzet!
0DOWlrjuNpbF9ymKAglvsSuL1FyLw4PN5FlomdhDAbdoliAvr5+Y7PKzan9s8UiwLVKilOkYO2iB!
cZLXhbtFXQ==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.34
Xref: g2news2.google.com rec.radio.amateur.homebrew:9235

Day Brown wrote:
> But what's the best option to go from full duplex into the PC? will
> the standard LAN multiplex at 180mhz? RS232?

Y'know, in the "Hitchhikers Guide to the Galaxy" trilogy by the late Douglas Adams, there were three arks of humanity. The first was filled with all the thinkers. The third was filled with all the folks who got things done. The second ark, however, was filled with all the folks who didn't really do much for a living. They were the vice presidents of companies, the executive managers, the marketing people, the lawyers, the car salesmen, and the career politicians.

The second ark crash landed on earth. The survivors decided that if they were going to survive, they needed to build a committee to find figure out this "fire" thing. And the first question they asked was how were they going to market this sort of thing. Were they going to aim to build a pocket fire? Would people buy portable fires? Did they want them in different colors? How would they sell fire?

This is where you are. You know there is something out there that needs doing. However, you have no clue how to go about it. So you ask peripheral questions to see if anyone else is going to step forward and do your homework for you.

Honestly, there is so much to know and so much to learn that I couldn't possibly summarize it here. But to start you off, a router interface with a serial WAN port will work. So will SLIP on an RS-232 link. But I suspect you knew that already. Good luck building your radio. Be sure to post the details on the web if you ever get it to work...

Jake Brodsky
Amateur Radio Station AB3A

```
From -9024201703587040845
X-Google-Thread: 10e8c9,839a1df59661c964,start
X-Google-Thread: 116029,839a1df59661c964,start
X-Google-Thread: 107568,839a1df59661c964,start
X-Google-Thread: fc2a5,839a1df59661c964,start
X-Google-Thread: fec2a,839a1df59661c964,start
X-Google-Attributes: gid10e8c9,gid116029,gid107568,gidfc2a5,gidfec2a,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k78g2000cwa.googlegroups.com!not-for-
mail
From: johnfrancisayres@rock.com
Newsgroups: alt.startrek,alt.tv.star-trek.tos,alt.tv.star-
trek.voyager,rec.radio.amateur.homebrew,alt.politics.usa.republican
Subject: Ship's Tour Of My Universe To Begin - Call To Arms! Duty Stations! Fire
When Ready! Cease Fire Procola! Pt. I/III
Date: 14 Feb 2007 10:11:42 -0800
Organization: http://groups.google.com
Lines: 2135
Message-ID: <1171476701.908390.170580@k78g2000cwa.googlegroups.com>
NNTP-Posting-Host: 172.193.227.47
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171476707 19236 127.0.0.1 (14 Feb 2007 18:11:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 14 Feb 2007 18:11:47 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k78g2000cwa.googlegroups.com; posting-host=172.193.227.47;
   posting-account=J1aE9A0AAABPEYSAAS-D20mZlfB81UJw
Xref: g2news2.google.com alt.startrek:12659 alt.tv.star-trek.tos:17873
alt.tv.star-trek.voyager:2367 rec.radio.amateur.homebrew:9035
alt.politics.usa.republican:312801
```

Call To Arms, means, you will inspect your weaponry and prepare to do battle. Duty Stations, means, all men and women must assume their duty stations, weapons at the ready. Fire When Ready, means, man or woman your weapons, sight the target, finger the trigger, and fire when ready. Cease Fire Procola, means, continue fireing until the enemy targets are dispatched, and there is no sight of an enemy anywhere on the horizon. Procolas means, after ending all possiblities of any lingering survivors staying alive. It means to wipe them out, and leave no survivors.

This means, it is time to kill all Lesbianists, and all other enemies in my universe, the many groups of naughty kids in my universe, rascaleers and others, and we will continue this fight, untill they are all dead, and in my Epcot Centers, or untill they have surrendered. Rascaleers are evil people who wish only to harm others.

Religious Practices - Fistiker Practice - What Is A Dependency? - When Sexaling - Labia And Felate - Genitals, Titties, The Labia, And The Many Sexaling Organs - Bears In The Woods - Expecate - How Do You Tell When Your Period Is? Labiating A Labia - Bears, Wild Animals, And People - Brad Pitt, And Angelina Joline - Abominant Elephant Kids - What Causes A So-Called "Nuclear' Explosion Or Detonation? - Cleansing Your Self With Your 'Built-In' And 'Attached', Cleansing And Washing, Clearifying And Erasing Energies Producing Genitals And Sexaling Systems, Eroteming And Orgasming Nervous Systems, And Baby Making Related Purifying Energies Generation Stations Aparati, Or Apparatuses, And Armatures - Ticklement Tuning Forks - Focal Patterns - Assistive Religious Practices - How To Make Prayer Statements - What To Say, When You See Me Using My Dick To Purify Others, And So Forth - Who Was Kris Kringle? - Lesbianists' Torment Campaign Under Way
Updated: 18-01-07 Rev.a.00.a 02:50 PST

Religious Practices

This is a little confusing, but hold on, and I'll try to explain it. There are many parts to my religion. We call them, parts, but we can also call them, practices, some of them, but not all of them.

We have the fundamental 'root' practice, which is sexaling. From the root practice, comes all other practices.

There are side practices, and there are derived practices. There are also, accompanying practices. There are many other types of practices, but I don't remember the names for them all, right now, as I'm still amnesiatic, and will be for a long time.

Fistiker Practice

Bringing about orgasming in another person is a fistiker practice. A fistiker practice is a side practice, but it is also something a little different from a side practice, depending on how you bring the orgasming about, and depending on how many people are involved, and depending on who is the primary person, the person whom we are working on, and who are the helping people, the people who are joined together, to help the primary person to orgasm. There are a number of other dependencies as well.

What Is A Dependency?

A dependency is some thing that is needed that will help to define something else.

As in the case of an accident victim, we have a crutch to define one level of severity of an accident victim's situation. But we might also have a wheel chair to define another level of severity for the same, or other, accident victim. These objects help to determine how badly or miserably a person is injured.

A crutch can help define a level of severity in the injury. A wheel chair can help also to define a higher level of severity. These are both dependencies. They help us to define something, and they are used to help us to define an accident victim's level of severe injuries.

When Sexaling

You can use your lips, for example, or your tounge to twiddle the toes of a woman, and the woman begins to orgasm. That twiddleing of your tounge on her toes to help her to erotem, and to experience erotistical orgasming, can be any number of things, depending on the involvement and complexities of dependencies.

Rubbing the vaginal face, the vaginal wall, or rubbing to either side of the vaginal crevice, the labial folds or felates, can help a woman to erotem and erotistically orgasm, and depending on the involvement and complexities of dependencies, the dependencies can be any number of things, if we try to define the sexaling activity more fully and completely.

We'll skip this for now, as it is a little too difficult to remember, right now. Just remember, the primary practice is sexaling, and that sexaling is like the roots of a tree. All other religious practices grow out of the 'roots' of the tree, sexaling, and can be defined in many different ways, such as a helping practice, a side practice, a subsidiary practice, a canceling out practice, an accompanying practice, and there are many many other terms for what kind of practice some thing is, depending on what dependencies are involved.

Labia And Felate

What is the difference between a felate and a labia?

A felate is the skin tissue of the outer surface, and some of the tissue of the tips and edges of the labia. It does not include the inner side of the labia, but only the outer side, and the surrounding edges, as far as I can remember.

A verb, or action word, as I call it, is 'felate' as in 'Felate that woman's or girls' left felate'. That means to suckle on the left felate of the woman or girl.

Felate is a verb, but it is also a 'nominal' word, or naming word for objectifying an object.

Do we say 'Labialize that woman's felate!' To labialize something is to make something into a labia. We wouldn't, unless we were a doctor, say that about a felate. But we might say it if we were doctors, and we had a woman who met with a bear, and the bare clawed at her genitals, and the sharp claws ripped her labial skin up, then we might say in a surgeon's room 'Labialize that woman's ripped up labia.' That would mean to stitch it up, and make it nice and neat, and clean and well stitched up, and then useful to her, again, and it would involve a lot of surgery, as many nerves would need to be connected, as they had been ripped apart, and the wiring was all dislocated. But in the end, we would be able to fix her labia, and her genitals, if they were also hurt, and then we could dismiss the patient from the hospital, after the labia healed, and after she recovered from her trauma of having her labia shredded by an impolite, rude, mean, uncaring, and hungry bear.

Genitals, Titties, The Labia, And The Many Sexaling Organs

The labia is not the genitals, but some people do consider them as a part of the genitals. The genitals are inside the woman's vagina, in my way of thinking. The vaginal wall is not part of the genitals. The vaginal orifice is part of the genitals of a woman. This seems odd, doesn't it. Well, that is how it works, in my brain, and I designed women, as well as men. If you notice, in my writings, I've talked about the draft table, and the throttle. These are major parts of a woman's genitals. They are inside the vagina, and you can reach them through the vaginal orifice. Before you get inside of the vaginal orifice, there are a few things outside, such as a pee tube, and an ejaculate tube, and the clitoris, as well as the labia. These are not part of the genitals, but are working parts of her sexaling organs. A woman's or girls' sexaling organs are not equal to her genitals. Genitals are for baby making, and for other purposes. Titties are not part of the genitals, but they are part of the womans' sexaling organs. This will require a long discussion to clear up, so I will save it for another day.

Bears In The Woods

That's the way it happens some times, when women or girls go out into the woods, and sexal with their female friends. They can get hurt by bears, if they are not accompanied by men, who are tough, and strong, and who stay alert, to guard and watch out for dangerous animals, such as bears, wolves, cayotes, bobcats, puma, and even racoons. Racoons do attack humans, if they smell some thing that will taste good to the racoon. If a person has a skin tear, and is bleeding, even a tiny bit, the racoon will smell it, and come running, and then find the person, and so will panthers, and all kinds of animals will come, and it's just like a bunch of sharks and fishes of different kinds, and Moray Eels, they like the smell of blood, and they come and investigate, when they smell it.

Women and girls have periods, and it is not every twenty eight days, as I've explained about before, and blood runs down, out of their vagina, and they generally do not know it, as it is only a tiny drop of blood, or less, most of the time, and the blood is often wiped from the skin surface, when the woman or girl is on the potty, or toilet, and the woman or girl will not even see the tiny drop of blood that comes out of the vagina and drips down the labia, on the inside, and then falls or dribbles down to the felates, and then falls off the felates, while she is on the toilet into the toilet, or while she is out doors, and walking about, onto the earth, if the woman is walking on a park walkway, or bicycle path. If she is wearing underwear, it will not fall onto the earth, but it will dry up on the panties, or underwear, and the smell of the dried blood will attract wild animals if she is out doors, walking or jogging in a wooded or regional or rural area, where there are lots of, or even just a few, animals.

Pumas can smell the blood, from miles away, and so can tiny oselots, and bears, and many animals can. They can smell blood, because they know they need meat to survive. That is built into their brains, that are located throughout their bodies, and not only in the skull, and animals are very sensitive to the smell of blood, as well as to the smell of urine, and to the smell of poop. Some animals, such as racoons, will come up from behind a woman, and grasp at her panties, as the racoon may smell the odors of fecal matter, from her butthole. Men may be raked by the claws of raccoons from behind, as they smell the odors of fecal matter, and try to find out more about it, as the racoons know that there is something delicious hiding behind those odors from the buttholes of women, girls, men, and boys.

Expecate

When women and girls go out hiking, it is best to wash out the vagina, first, and then use a fermented oil, as a douching agent. The oil will help to slow the flow of the blood down the inner walls of the vagina, and it may help to trap the blood, and make it difficult for it to leak out, unless the amount of the flow of blood, is very large. In that case, it is best to stay home, and not go out, when a large amount of blood is expecated from the vagina. Expecated means to expell outwardsly. Expectate can also be used, as it is generally the same word, that is, and it also has generally the same meaning, but perhaps it has a few more uses, maybe, but it is from a variant language of the English language, and is basically the same word.

You should expecate your fluids in your vagina, from your vagina, before you go out hiking. If you know when your period is, and there are ways to tell when you have a period, or when you know when you are about to have a period, than if you normally have a large amount of blood flow from your vagina, as that has been your experience, it is probably best to go and sunbath at the beach, far away from wild animals and their habitats, or by the pool side. Racoons sometimes come out of the woods, to the shores of beaches, and trumbel along, listening and watching, and sniffing the air, when they smell dried blood, or wet or moiste blood, inside of the swim suit lining in the groinal area.

How Do You Tell When Your Period Is?

To learn when your period is, you need to look into the toilet bowl that you pee into, and then see if there is any red droplets. You can place a piece of toilet paper onto the surface of the water, and it might help to show the redish color mixing with the urine.

Another way is to take a piece of toilet tissue paper, and wipe your felates, in the morning, or during the day, or at night. Night is a good time, but during the day, it is just as good. Some women like night time because they feel the day is finished, and they are now going to make a final check. Well, it doesn't always happen the way we want things to happen. You might start leaking blood fluids, at two or three or four or five, a.m., or at six, or seven, or eight, or while you are in the shower, or in the bath tub, bathing, before you plan to go out for the day.

It may take you several years for you to find out when your period begins, and when it ends, by checking for blood flow. When you have determined the number of days between one period and the next, and you are absolutely certain of it, and you have confirmed it, many times, and you have checked to see if there might be something you didn't notice, at other times, when you checked, eventually, you'll learn when your blood flow begins, and how long it lasts, and when the next blood flow begins. Once you know, then you can time your excursions to the woods, or to the beach, with your friends, both women and men.

Bears, Wild Animals, And People

Men are needed to help scare bears away, if they come to close, and pepper spray is a good way to get them to leave the area. Bears do not like the small of pepper spray, and you need a cannister of pepper spray that will fire fifty to eighty to one hundred and eighty five feet or more, to scare away a bear, safely.

Loud noises surprise bears, but hungry bears get angry and feel challenged by you, and may come at you at a fast pace, and not stop, once they are angered. If you are a good shot with a rifle, and you see a bear, from a few hundred feet away, and it is moving slowly, towards you, following you, you can shoot it with a good fifty calibur weapon, from that distance, and it will go down, in an instant, if you hit it square in the noggin, about one inch or less above the nose.

You need to be a good shot, and several people should aim, and fire at the same time, to kill the bear, to be sure some one hits it, and then puts it down, and kills it.

Do not think that because you have one rifle, or two handguns, and a rifle, that you are safe. If you do not know how to shoot, and if you are an inexperienced marks woman, or marks man, than your chances of hitting the bear are near zero, for all three of you, at three hundred feed.

You need years of practice to become a good marksmen, and you can start with the lower calbur weapons, to get a feel for weapons that fire projectiles, and that make loud noises.

There is no such thing as a friendly bear, and people think, 'Oh, look! Isn't she cute, that bear.' If they think that way, they might as well have left their last will and testament behind, and signed all their assets over to another person.

Bears are animals that need to eat just as humans do, and just as all animals do. If you are so foolish to think that bears are cute, you are a lame brained idiot. Bears are dangerous animals. And so are all wild animals. If you think a racoon is a cute animal, you get the lame brained award for the year award, and trophy to sit on your desk at home to remind you of how stupid you are.

Brad Pitt, And Angelina Joline

Only idiots would think that wild animals, that eat people, are cute. They need remedial training, as they do not understand that their lives are in danger, every time they walk out the door of their home. Even in the cities, there are nasty people, who smile, and pretend they are your friends, and these same people, such as Hillary Clinton, Brad Pitt, Cheryl Davis, a friend of Brad's, but that's his current girl friend, Angelina Jo-line. She is not a Lesbianist, and Brad pretends to be her friend. He likes to watch her get eaten by bears, my abominant kids, when the Lesbianists feed humans, one at a time, to the bears, or to the crocodile abominant children of mine.

Abominant Elephant Kids

I have carniovorus, human being abominant elephant kids, and they are rude, mean, nasty, and really terrible. They scare people, and then they pick them up with their trunk, and place them on their head, and then they tell them not to move, or they will stample on them, or tromp downwards, and crunch them, painfully, from the foot, to the shin, to the thigh, to the pelvis, to the waiste, to the lower tummy, to the mid section, to the chest, and then the neck, and then the head, finally killing them. They will take a person, pull the person up and lift him or her up into the air with his or her trunk, and then pull the person into his or her mouth, and then crumple up the person, and then spit the person out, and the person is all broken up, and chewed up, with all the bones, broken, in the legs, and in the arms, and in the waiste, pelvis, torso, neck and shoulders, and head.

The Lesbianists use lots of these elephants. They are pretty to look at, but they are mean, and nasty. When strangers see them, they think, 'Oh, what a pretty elephant.' They don't know that the elephant is my abominant kid, and can speak English, as many people recently found out near Africa, in Sri Lanka, and then also in New Guinea.

They were very surprised at the talking elephant. But they didn't know that the Lesbianists had let the Elephant, my abominant kid, lose from the cages that they kept him sealed up in. There were one or two, or maybe eight of them, in Sri Lanka, and eight or nine in New Guinea. Lots of people got eaten up, and killed. The elephants are still lose in New Guinea, but in Sri Lanka, they herded them into the pens, and brought them to New Delhi, to then begin a rampage in New Delhi.

Well, the Lesbianists are doing this, daily, because they feel they have lost this battle, and that they are just wasting time, doing nothing, as they can not get to me. So they want to have a lot of fun. Now they are releasing lots of my abominant kids, in many places, and in New Delhi, Bombay, Sri Lanka, and New Guinea, many people have been hurt and killed by these idiot kids, these abominant elephant kids of mine. The Lesbianists have thousands of animals they want to release, out into the public, in England, in Switzerland, Georgia, South Carolina, Paris, and many other places.

The Lesbianists think they are going to have a lot of laughs watching the abomniant kids of mine, tear people up, and rip them to shreds. They also think that the animals, who are not abominant kids, but are just bizarre animals, that catch people in very large, nets, that have threads as thick as ropes, and that are very sticky, are going to do a lot of wierd and crazy things, no one here on this planet, other than them, have seen. They think they are going to get a lot of laughs when they see the mayhem and havoc, the disruption to society, and frustration on the faces of people who get caught in the nets, and then turned into living mummies sealed up in a type of pulpyish paper so the person can slowly disolve, but stay alive, for up to a year or more. Maybe as long as ten to thirty years, in some cases, and I'm not kidding.

You may think I'm kidding, but I'm not. This began a few days ago, and the Lesbianists are intent on continuing this, for the next few years. Isn't that surprising. I never expected that. They are very strange people, aren't they. They are real sicko's aren't they.

I think you should all go and meet my kids, with a day pass, and ask them about it. Other wise, you might find your self in a very large spider's web.

Labiating A Labia

To labiate is to suckle the labia, and to take one or the other of the labia into the mouth, and tickle it with the tounge, or twist it gently with the lips.

'Labiate that woman's left labia!' 'Felate that womans left felate!' The difference is, labiating is to suckle the entire left labia, inside or under the edge of it, on the inner side, and the edge of it, and the outside of it.

Felateing the felate, is to suckle the edge of the labia, the upper exposed edge. It does not include the labia, in its entirety. Only the upper, protruding skywards, or in which ever direction it is pointing, that portion of it that is extending outwards. If you lift it up between your finger tips, you'll pull up on the entire structure revealing the underside, or the unexposed underside of the labia.

There is also the outer side of the labia.

The Felate is the top tip edge of the labia, generally speaking, and it is itself an isolated system, and not part of the labia. It's connected to the labia, but it serves a different function. It droops downwards, to seal out the possiblity of any thing entering the vagina from below, in an upwards moving manner. Bugs can not fly up into the vagina, as the felates prevent them from flying up into it. Without the felates, the vagina would be unprotected. The labia would not protect the vagina, as the labia is merely the skin tissue mass that the felates are attached to, and in an instance of removing a felate from a cadaver, or dead body of a woman, or girl, once the felate is removed, the labia have no closure over the vagina, in most women and girls.

There are exceptions, as we've had many animals in our heritage line. There are many differences when we line up ten women, and inspect their vagina, their felates, and labia, their bumbey pack, as children are encouraged to call the lower hanging sexual organ of the vaginal cape, as it is also called by doctors.

On this planet, the bumbey pack may not be called a vaginal cape, with the inferior texts with unadvanced, primitive, witch doctor level sexual sciences that do not help any one along, such we find with the myth that women and girls have a period every twenty eight days.

That is total nonsense, as I've explained about it, before. The truth is, every few days, to every eight to fifteen days, to even eighteen days, or evern thirty two or fifty five days, depending on where the woman has grown up and where her ancestors have grown up, the number of days between one period and another period can be very dissimilar, from one woman to another woman. Some women have a period every two or three days, or even every day. There is no reason an ovary can not fall, every day, several times a day.

An ovary is so small, no one can see it, without special optical technologies, such as pass through see through technologies, and other optics, and other videoing technologies. A microscope is an out moded, ancient, and novel device, fit for only museum use on display shelfs. It's like an old car of the twenties, or there abouts, or even earlier, of course, depending on how sophisticated it gets. Micron microscopes, the so called, 'electron' microscopes, are a misnomer to begin with, as an 'electron' is not a fictious concept, but no one knows what an electron is, generally speaking except for the Lesbinists.

An electron is a small bit of electrically heated plasma, that you can heat, with the right technologies. It can fit on the tip of a pencil or pen. This is a big joke to the Lesbianists, as are also their jokes about protons, and neutrons, and nuclei, or the so called combined nucleus, as in 'nuclear' family. Nuclear family, is not a 'tight' organization of two persons, and their children.

A nuclear family is a family that has been nuclearized, that is, exposed to radiological salts kiddies, and their radiative or radiological energies. That's another one of the Lesbianists' jokes on all of the scientists who the Lesbianists could get to swallow it.

What Causes A So-Called "Nuclear' Explosion Or Detonation?

A vast number of children are making babies at a very high rate of speed, and the energies that they give off, as they make babies, and then peel off from the area where they made their babies, one after another, as they rocket away, is what causes a nuclear blast. The tummy mommies and tummy daddies are making babies at such a frantic pace, they make millions and billions, and trillions, and more, before you can even send a signal to your eye lid to blink, from your brain part that sends the signal out. The signal will travel just a very short distance across a crupture, not even half way, more like, one or two feet in distance, if we are to look at the size of a crupture as the same size as our current universe. It travels about not even one foot, not even one inch, and not even one millimeter, and not even one millionth of a millimeter, and far smaller than that still, before the parents are already through making babies, and they have retired, and passed on, and several kabillion generations of families, and multiply that by a very large number, and you'll get how many generations of families lived and died, and passed on their DNA to their sons and daughters.

It's a hail storm of erupting magnitude when the tummy mommies and tummy daddies begin making babies, and making their families larger.

It all happens so rapidly, with more than that number of successive generations of families, in less time than the energy pulse will travel down an optic nerve, across a crupture, that very minute or very tiny distance, as I stated above.

That kind of frenetic baby making activity, makes for a lot of heat, as well as, it generates a lot of stresses, and a lot of energies go flying off in all directions, as the sexaling couples experience many nice orgasms and eroticisims, together.

Temperatures, their body temperatures, collectively, and the incredibly vast number of movements, which also generate temperatures, by the animals, the tummy mommies, tummy daddies, tummy babies, the relatives, and the many generations of families, go skyrocketing, and the magnitude of numbers, and the intensity of all the activities the animals are busy with, as they make tummy babies, simultaneously, or nearly simultaneously, is of phenomenal proportions.

If we slow them down, to our pace, and then compare them to our pace of life, they would be just like us, and things would move slowly for them, and not much would change, for many kazillions plus years, and then many, many more years.

However, they are moving so much faster than we are, and the length of time they live, to them, it is a long time, four or five, or eight or nine hundred years, in our time, maybe, in some cases, depending on the type of radiological salts kiddies making babies.

On their scale or pace of life, they live that long. But on our scale, the length of time they live, is so tiny, we can not measure it, unless we have a very high level of advanced mathmatics that can account for such a small time period, or span of life.

Anyway, the frenetic adventures of the colony of radiological animals, when they start to make babies, after they are woken up, and prompted to make babies, with a detonating surge of heat energies, light wave energies, pressures energies, trampolining energies, which get them started, with the right combination, of heat, light, atmospheric temperatures, atmospheric pressures, food sources avaiability, drinking water avaiablity, trampolining energies, and a number of other types of energies, that awaken them, and then get them turned on, and sexaly active, they will suddenly erupt into a frenetic, mass of baby making furor, to us, any way, and with that, we have our so called, 'nuclear' detonation.

Cleansing Your Self With Your 'Built-In' And 'Attached', Cleansing And Washing, Clearifying And Erasing Energies Producing Genitals And Sexaling Systems, Eroteming And Orgasming Nervous Systems, And Baby Making Related Purifying Energies Generation Stations Aparati, Or Apparatuses, And Armatures

You women and girls, your vagina is your Holy instrument for assisting you to cleanse your self, and wash away the dirt and grime of daily living, the insults to you from strangers, the verbal abuse you experience in your arguments and conversations with friends and family, neighbors, relatives, work associates, and community acquaintances.

Your Holy body is a weapon to fight back against all the negativities you experience in your life, as you orgasm and erotem, showering off purifying energies, and lots of other beautiful other things and dings, as you vibrate your entire body concordially, in harmonic rythym, cadence, and rapture, with my Holy Body.

Your breasts, your butty butt, your butty butt hole, your vaginal hole, your groin, your throes, your vaginal cleavage or labial folds as they are called here by these nitwittish doctors on this planet, who do not know any thing about the human body, your chest, your back, your legs, your arms, your hands and fingers, your ankles, feet, and toes, your ears, lips, mouth, tounge, cheek, your rectal cavity, your tummy button, your stomach, throat, your brains, and you have many more than just one in your body, but many millions and more of them in your body, and that is not an overstatement, and every part of your body, inside and out, your many nervous systems and all your organs, they are all set to orgasm and erotem, and generate purifying energies with the help of the power company, as I've explained about them, before.

Ticklement Tuning Forks

You have ticklements, tuners, or pitch fork tuning forks, that chime, in every cubic millimeter to every cubic inch, and in even tinier places, you have tinier ticklements, or tuning forks, and in larger areas, you have larger ticklements, or tuning forks, and they are all set to vibrate in various patterns of sexual thrilling eroticisms, and orgasming ecstacies, as you pump up the levels of sexalating energies you have available to you, in you, and showering off from you, and those patterns and focal points change, slightly, minutely, as every micro second goes by, as we change our location in our universe, and our relative location or position to every thing else in our universe changes, from night to day, and from day to night, ongoingly, non-stopingly, never repeating the same set of tuning focal patterns. Focal patterns are frequencies.

Focal Patterns

These frequencies, or harmonic consistencies, are harmonic displays or the 'in rythm' with GOD, consistencies that allow you to be united with GOD, me, my devine and holy body, and my devine and holy mind, and being or GOD SELF and GOD BEING, every moment.

Men and boys have the same ticklements, or tuning forks, and they are located in every organ of their bodies, just as they are in women's bodies and in girls' bodies, and they allow all of you children of mine to stay in frequency with me, as you sexalate, erotem, and orgasm, practicing my religion, and as you live your daily lives.

These many ticklements and tuning forks are all connected to your brains and to your nervous systems, and each living being in your body, has them as well, and every living being has them as well.

All my children, animals, living beings, and human beings, are all connected to me, through these tuning forks, and also, through the holy bodies all my children have inside of them, and also through a myriad of other mechanisms that I have functioning in your bodies, in your astral 'energy' bodies, and the many millions of energies bodies each of you have in you. My animals children and living beings childrens have fewer connectivities and fewer energies bodies, as they do not need as many as my human being daughters and sons. This is because you, my human being children, need to be more connected to me, as you are the only ones who can actively practice my religion, with your own self determination, and desire to practice, to become closer to me, GOD, purer, and holyer.

I'm connected to all of you, day and night, three hundred sixty five days a year, in countless many fold untold numbers of ways and manners, and with countless many fold untold numbers of mechanisms. All of my children are likewise connected to me, in similar ways and manners, and with similar mechanisms.

As you women, girls, men, and boys sexually rapture, erotem, orgasm, and reach sexual peaks, and then sustain them, you grow holyer, as you become purer, brillianter, and closer in GODLYNESS to ME, GOD.

Obviously, then, the primary means for you to grow pure and holy is to sexalate, and as you continue, over the days, and weeks, then months, years, decades, hundreds of years, thousands of years, millions of years, and more, you slowly grow more pure and holy.

Sexaling is my primary and most fundamental religious practice and your primary religious practice for you to become cleansing machines, washing machines, purifying and sanitizing machines, so that you can clearify and erase your karmic markups, and purify your lives, and the lives of those around you, with your selfless actions of grace and serenity, sexaling and showering purifying energies in all directions for the sake of your self, and for the sake of others.

You women and girls need men and boys to assist you to become the powerful cleansing and purifying machines that you are capable of becoming.

Men and boys used to be somewhat nearly as useful as purifying and cleansing machines, as women and girls, but men and boys have different jobs, and different priorities, and there fore, the burden of work to purify my universe, and to clearify the karmic markups of all my children rests on the shoulders of all women and girls, with men and boys assisting women and girls.

You men and boys need women and girls to lead you, and to help you to become more proficient, powerful, and more capable cleansing, washing, purifying, and sanitizing machines.

Assistive Religious Practices

The practice of praying Nam Myeo Ho Ren Ge Kyeo is an assistive practice that allows you to become in touch with my GOD SELF, equally as well, but the time it takes, is much longer, as very little purifying energies are produced, merely by using your brain, muscles, ligaments, sinews, bones, mouths, tounges, and jaws, as energies sources.

There are many other assistive practices, from meditation, to breathing techniques, to yogic techniques, to ballet like techniques, to dance techniques, to body movements of various kinds, to help you to increase and or also store up your energies, and then for you to release them, for you to then become more firmly and closely connected to ME so that you can eventually begin to gain a higher appreciation of ME, GOD.

My many religions teach many ways to do this, and before my many religions were corrupted by the Lesbianists, they worked to varying degrees of success.

Therefore, sexaling is the primary fundamental religious practice, and all other practices in my religions that I've taught over time, spanning all of my previous teachings from the begining of our time together, since I, my GOD SELF, created you as my children, are assistive practices, of one kind or another.

Sexaling, eroteming, orgasming, phlumetting are important practices, and as you orgasm, you are purifying your self, and others by pushing out and spraying your self with purifying energies as your holy and sacred energies shoot out to cover you and emmerse you in full body coverage, from head to toe, showering and shattering energies every where around you. They then build up and cover over all others who are around you, as well, with your purifying erototistic and orgasotistic purifying energies, clearifying yours and their karmic markups.

Astral traveling is another type of practice, but we'll define it, another time. Experiencing hyper trance states of mind and being, and a nearness to GODLYNESS are also a practice, and we'll define it, when I can remember every thing I need to remember about it.

Participating in my religious ceremonies is an assistive religious practice you can enjoy, as you become purer and holyer, and after you recognize that I am your Mother and Father, and your CREATOR, and that you exist because of me, as I made you from pieces and parts of me, your CREATOR.

After you realize this, you can enjoy participation in ceremonies with me, as training priestesses and priests, and you can make your way up the purity ladder, the more you participate with me, GOD, in my religious prayer hand signaling ceremonies.

Praying Nam Myeo Ho Ren Ge Kyeo to my Holy Body, or to the Gurkian Mandala, as I've explained about, is an assistive practice that will bring results.

It will not bring results as well and as effectively and as quickly, as sexaling, which is the most holy and virtuous practice, along with eroteming, orgasming, phlumetting, astral traveling, peaking, and so on.

I've spoken about peaking, before, and women and girls can peak, and experience wonderful feelings.

In any case, do not confuse assistive practices, with the fundamental and primary practice of sexaling. We'll get back to all those other things, to define them, betterly, another time, after my brain heals, a little bit more, and after I erase more karmic markups that keep my brain karma from improving, fast enough for me.

How To Make Prayer Statements

Remember to include a prayer statement, such as 'I pray to the holy ephemeral body of the Creator, John Francis Ayres, for the [insert private prayer statement]', such as, '... for the serenity of mind, and the gratefulness of heart, for all those around me, who have helped me to become the person I am, and can become.' or, '... for the peace of mind, and serenity of heart, for the love of all men and boys, and the cooperation of all women and girls.' These prayers said by a woman or girl. Men can pray, similarly, '... for the grace and deviness of the women and girls who surround me, I am greatful to them, and I pray for their continued good health, and prosperity'.

You can also say, 'I pray to the holy body of the Creator, John Francis Ayres, for the [insert private prayer statement]', but only when I am in the middle of a religious hand signaling prayer ceremony, i.e., while I am doing a prayer ceremony, and saying my prayers with religious holy hand prayer signals that my special kids who are religious kids, can pick up and then act on, in concert with other groups of kids of mine, who also are religious kids, most of them, I think, and who work together with my primary groups of religious kids.

I have lots of kids, and some are normal kids, who go about their jobs, as expected, for earnings, just as most people we know. But I also have lots of other groups of children, who are more, religiously oriented, to varying degrees, and who are very religious as their work is all for the sake of my religious self, my GOD SELF. My religous kids catch my hand signing, and then they pass the messages along to others of my groups of children, and with all of the different groups of children I have doing 'good' works for me, as well as groups of children who do 'religious' works for me, as well as groups of children doing normal work for me, but for the sake of my religion, nevertheless.

They all coordinate themselves, somehow, I have yet to figure out how they do it, but between them all, they get the jobs done, that I ask them to do, while I am religiously - and the prayer statements I am signing are very holy - hand prayer signaling, i.e., hand signing.

So, unless you know for a fact, by seeing me on a tv, such as during a live broadcast, once I get my religious conveyance set up, and built by my children, after all the conditions are met, for securing this world from the grasps of the Lesbianists, and after killing all the Lesbianists, and / or after making the remaining Lesbianists surrender, and then after all other conditions are met, as I don't know all the conditions, I've set, as my memories are still foggy, as I'm amnesiatic, as well as mentally retarded, but in any case, if you see me on tv, on a live broadcast, doing my hand signing, you'll know I'm in the middle of one of my prayers, and then you can say, 'I pray to the holy body of the Creator, John Francis Ayres, for the [insert private prayer statement]', and you can omit the 'ephemeral' if you like, as it will work better if you omit the word 'ephemeral' as while I'm praying, I'm my normal, GOD, self, though I may not look to you, on the surface, to be any different, over the video links, or even in person. It never the less works better if you use my recommended methods of making prayer statements, this way, for you to maximize your private prayer statements.

All of my groups of kids have lots of friends, and they do lots of work for me, and I do not remember how many groups of them there are, and how many children I"ve got, as yet, but in time, I'll be able to give you a better idea of how they work together to get the work done, that I ask them to do for me, with my religious hand prayer signals, or hand signals, as in hand signing, or signing.

My kids use signing for all their work assignments, so I use hand signing that they can catch, pick up and read, and it is all pretty much very religious in nature, and it is very solemn, as I am GOD, and when I'm signing, they know I'm GOD, and do not doubt it.

When I am not signing, they might now and then, doubt that I am GOD, but never the less, I am GOD, and my signing proves it to them - when I am saying my religous hand prayer statements, by hand signing - with out any room for doubts in their minds.

In other words, I'm a typical person, just a little mentally retarded, brain smattered, or brain damaged, after my many youthful and other brain bashings I recieved, the wiring is a little scrambled up, upstairs, and after many poisonings by the Lesbianists - from makeing coffee from kerosene, diesel fuel, gasoline, and motor oil contaminated coffee beans and then from drinking that coffee, without knowing it was contaminated with petrol fluids, as often happens to people - and with ill health karma that has me on disability, and I've been through a lot, life after life, and sometimes, my children may have had a thought or two, 'I wonder, if he is going to make it, like he said he would?'

Well, to dispel all doubts, I sign, and when I'm signing, I remind them of my old self, back in the old days, when I used to sign, religiously, and they know how serious a guy I was, so they do not harbor any doubts, so long as I am hand signing.

What To Say, When You See Me Using My Dick Or Other Parts Of My Body To Purify Others, And So Forth

You can say, 'I pray to the holy body of the Creator, John Francis Ayres, for the [insert private prayer statement]', also while you see me praying, Nam Myeo Ho Ren Ge Kyeo, or also while you see me in a ceremony, using my dick and scrotum, or other parts of my Holy Body to purify others, during the middle of a prayer ceremony, and I need not be hand signing, or praying Nam Myeo Ho Ren Ge Kyeo, as I am in the middle of prayers and activities ceremony, which is just as good as a religious hand prayer signaling ceresony, any day.

My dick and scrotum package is very Holy, and it has a very useful function, and that is, it purifying others. My lips do, too, and my butt hole, does as well. They all purify others very effectively and efficiently during my religious ceremonies.

My entire body, during a religious ceremony, butt hole, mouthal hole, lips, tounge, cheeks, legs, knees, feet, toes, butt, chest, back, arms, elbows, hands, fingers, head, neck, throat, ears, nose, and so forth, is entirely the body of GOD, as I am GOD, and therefore, while I am useing my body, during my religious ceremonies, and for my religious ceremonies, and you see me on tv doing so, then after you have verified that I am in the middle of a prayer ceremony, you can say your private prayer, in the manner as I've explained, 'I pray to the holy body of the Creator, John Francis Ayres, for the [insert private prayer statement]'.

I only use my dick and scrotum package for prayer ceremonies, except when I need to pee, so if you see that I am using it, during a prayer ceremony, or if you see me using any other part of my Holy Body, during a live broadcast prayer ceremony, then you'll know right away, that I am in the middle of a prayer ceremony and it is okay to use the statement, 'I pray to the holy body of the Creator, John Francis Ayres, for the [insert private prayer statement]'.

The same is true, pretty much, for any priestess or priest, who practices with me, in my religious holy body prayer circle, their bodies become very Pure, Holy, and Devine, but only after many life periods, that is, after many, many aeons, as they do not attain the same level of purity for a while, the same level of purity as I am at by my good old self, or the same level of pureness that is of ME, GOD, since I'm GOD, and they are not.

That means, it takes priestesses and priests longer to become pure, holy, and devine. I happen to be pure, holy, and devine, but that's because I'm GOD, and it is only during my religious ceremonies that you can understand that as you make your prayer statements, and sexal, etc.

After a long, long while, priestesses and priests will also become pure, holy, and devine, as their holy bodies, energies bodies that are pure, holy, and devine, but on a lower scale than are MY energies bodies, since I'm GOD, and I'm in charge of keeping things tied together, here in my universe.

After many aeons plus years of practice in my holy body praryer circle, the priestesses and priests become pure, holy, and devine, and then their bodies, their normal bodies, become very purifying, just as mine is, now, when I am in a prayer ceremony. I am in a prayer ceremony, daily, a few times, to a number of times, a day.

I've gone eighteen hours straight, once, and no sooner than I go to sleep, and then wakup, right away, I begin again, and I've gone many days, straight, praying, continuously, non-stop.

This is nothing, though, and is all preparatory, as in the future, when I get my health back, as I haven't been too healthy, for quite some time, I will be praying around the clock, some days, and for many days at a time, taking a break only to eat, drink, poop, pee, and clean up.

When priestesses and priests join with me, we will go for years without stopping, and with the priestesses, and with the priests, the both of them there, present, doing the prayer ceremony on my behalf, they can represent me, while I take a nap, go and shower, get some food, nourish myself, drink some fluids, read a book or news paper, or watch the news, or a movie, game show, video, or play a video game, and so forth. I won't be taking long breaks, and that is very funny sounding, but anyway, it happens that priestesses and priests will lose their attention, and then get lost, somehow, and then go and watch tv in their bed room, or whatever, and then we have to go and look for them, and they will get a few markoffs, and with enough markoffs, they will be asked to leave the religious conveyance, and they will be put on a type of vrobatiton, or under survielance, to see if they are good or not. My kids do all my survielance work, and they keep track of every one, so 'you'd better be good, you'd better be nice, you'd better look smart I'm telling you why, Santa Clause is coming, to town'.

Who Was Kris Kringle?

Did you know that Kris Kringle got its start from me? What a coincidence. I don't think he was wearing anything, though, or rather, I don't think I was wearing any thing, but you never know, as tolerances have changed over the long aeons of time, as they pass.

When priests and priestesses become that pure, holy, and devine, as pure, holy, and devine as I am, after their many aeons of religious practice in my holy body prayer circle - pure and devine on the exact same level as I am at - then they can represent me, as Mr. mini-GOD, and Mrs. mini-GOD.

You can not represent me as Kris Kringle, and whoever my wife was, back then. I think I had a lot of guys on that team, and a lot of women and girls, too, since sexaling was a part of that religion, too. You can learn more about it, if you're interested, by getting a day pass, and checking in with my kids, and then, signing up and joining our country, and then by becomeing a citizen, as I've spoken about, before.

You can include any good prayer, that comes to mind, that you feel is needed by you, to improve your life, and to level up your life.

You are the only ones who can pray, and practice, you women, girls, men, and boys, and there fore you are connected to me in many more ways than other living beings, the animals, and the amoebes, cells, and other living beings.

There fore, you are, both genders, the ones who will clean up the mess you have made, and you will continue to keep my universe clean, as you sexal with your genitals, and with your bodies, and with all your gizmos, igniters, trigger mechanisms, love bumps, love patches, tuning forks or ticklements, and so forth, as you are sexaling beings, who I, GOD, created, and you will sexalate, erotem, orgasm, phlumett, astral travel, peak, hyper tranceate, and so forth, just as I intended you to, from now till forever.

You will become virtuous and worthyable beings, worthyable tummy mommies, and worthyable tummy daddies, with your practice of my religion, who will bring into my universe, my many children who will join with you, and assist you and me, in cleaning up our universe, and the mess you have all made of it.

Is that understood? The answer had better be, "YES SIR!".

Lesbianists' Torment Campaign Under Way

Lesbianists are clearly releaseing wierd, ghastly, horrible, and dangerous preditorial animals, giant insects, giant spiders, giant lizards, snakes, and reptiles, ghastly, preditorial sea animals and sea mammals, winged, preditorial and horrific, aggressive scavenger and killer buzzard like creatures and other winged and destructive animals, and other horrible creatures, as well as my abominant kids to kill, maime, torture, and cause major disruptions and suffering to people, around the globe, in many locations.

Apparently, the whole world is now affected, or will be affected, by this dischordance and disharmonic display of defeated lunacy.

The peace has been shattered by the Lesbianists. It was not good before, the situation in the world, with the balooneying governments of the world, doing what they wanted to do, and torturing, and canabalizing people, and feeding people to my abominant cave bears kids, and to my crocodile people kids, and mistreating people, like Bill Gates, Steve Hawkins, Steve Irwin, many women, young girls, and men.

The war in Iraq, the phoney Saddam Hussein Trials, and all the bogus manipulation of the press and media, and the suppression of what is actually the case, with our being used and abused, poisoned, and maltreated by the Lesbianists, was a rotten situation. That was normal, or normality for us. Our karma is very poor, and we have the karma to suffer this abuse, and these torments, daily, unknowingly, in most if not nearly all cases.

But, it is becomeing really bad and there is need for serious concern, and action, to correct this situation. It has gotten out of hand, completely, and there is no stopping the Lesbianists in their wanton, and coldly miserable wish and lust for chaos and disturbances to others.

Now, more clearly than ever, as the Lesbianists rampage, the Lesbianists are causing major disruptions, suffering, anguish, and there is just an awful discordance of shock, dismay, and misery, that is growing, every moment. This is as real as the sunlight shining from the sun on a hot day in summer.

I don't have a clue what people are doing, and what is happening to them, as they are captured, tortured, and caused miserable sufferings, in many places. There must be horrible agony for many people, at this moment, and as each moment passes.

Our reality as it was has suddenly been shattered and torn up, and replaced with the lunacidal, Lesbianistic, mayhem and chaos.

Reuters reports a Lesbianists' joke for the Lesbianists, sarcastically and ironicly stateing, "New Perils Push Doomsday Clock Closer to Midnight" "(Reuters) Scientists have advanced the clock 2 minutes closer to midnight."

http://us.rd.yahoo.com/my/today/
new_perils_push_doomsday_clock_closer_to_midnight;_ylt=AmUXlewr5ev2kNK_SfOHDFAL1vA
I/*http://news.yahoo.com/s/nm/20070117/us_nm/doomsday_clock_dc_4

This is their private joke, to make this scenario more laugable than before for them. They could not care less, as they are manipulating every thing, and that statement is completely meaningless to them, as they are in control of every thing, in their conspiritorial lunacy to rule human beings, and to trash every one.

We'll see what the coming days, weeks, months, and years bring, and maybe there will be hope for change, when people begin to take action, to correct this situation, globally, united in spirit, permanently.

These are the most evil of evil people and abominant kids, in our immediate vicinity in our universe. We must begin our cleanup campaign here, as it begins where I am, and will continue from here on out, till we have rid my universe of all of these horrible people, and all others like them, and have made them surrender, or have sent them on to my Epcot Center.

I will establish my relgion in my universe, and begin my ministry, and they are not going to stop me, as my religion will bring positive change for all of us, forever.

I must establish myself outside the bounds of this Lesbianistic society, so your efforts and concern for our future, and your selfless giving of donations to my ministry, to allow me to set up my ministry, outside the bounds of this Lesbianistic society, non-dependent on Welfare, Supplemental Security Income or SSI, Medicaid, and non-reliant on the supported and financed Housing and Urban Developement or HUD subsidized apartment that I live in.

Once I receive in the mail, the 'Gift' donations to set up my ministry outside the bounds of this society, I believe things will gradually begin to positively change for us all, and the shift to positivity will begin, and a new universe for us all, will become for the first time, ever, a potential reality with the sincere religious practice by all of my followers, all of you, who are practicing my religion, diligently, and daily, or as much as your health and your time permits.

There in, with your efforts to practice, will bloom your flowers of dignity and hope, justice and freedom, willingness for sharing, cooperating, and participating with others in our new age of enlightenment, the Gurkian Age, and your new found respect for self and others.

Captain Off The Bridge.

John Francis Ayres
GOd
And Children

It Is Now Time To Kill All Government Workers, Public Workers, Preachers, Islamic Clerics, Christian Bible Teachers, Bible Thumpers, And All Other Persons Who Support The Lesbianists And Their Lesbianistic Societies Around The World - 'Fivers' To Kill Lesbianists And All The Lesbianists' Supporters - Coma Patients - All Persons Who You Kill Will Transel To My Epcot Center - Japanese And List Keeping - Surrendering And Pledging To Serve All People In My Universe - What Does This Mean? Updated: 21-01-07 Rev.d.01.a 19:56 PST

It is now time to kill all police of every police department in every country in the world. It is now time to kill all jail and prison workers in every country in the world. It is now time to kill all zoo keepers who work in zoos and other related places around the world. It is also time to kill all pet store personel, and pet store owners. We do not need people housing and feeding potentially dangerous animals. You are further ordered to kill all pets in all pet stores, and elsewhere, even in private homes. You may then eat them, after you have cleaned out their guts and removed tummy foods and rectal feces, etc., that are decaying matter, that is harmful to your health, and after you have prepared them for eating by cooking, grilling, fire place cooking, barbecuing, smoke house fermenting, or by other safe and sanitary, healthful cooking methods.

It is also time to kill every fire department official or worker, no matter what capacity the person works in, as a fire truck driver, as an ambulance driver, as an assistant driver, as an attendant or support crew person, as a maintenance man of the fire or the police departement, it is now time to kill them all.

Further, it is time to kill all public bus drivers, who work on any metropolitan or local area or state or interstate, or national bus company. It is time to kill all ships' captains and their crew members. It is time to kill all railroad rail line workers. It is time to kill all subway drivers and subway line workers, no matter what their job is.

Further, it is now time to kill all military personel, SWAT team personel, all government personel, and all civilian, or trained military, national guard, state or federal militia, toy soldiers, the people who dress up in old time war regalia, and outfits pretending they are old time, earlier period, confederate soldiers, or old time earlier period, union soldiers, who act out old time North the 'Union' vs. South the 'Confederates' and who participate in city and town parades, across the United States.

It is now time to kill all retired military personel who support the deranged, crazed, insepient, and corrupted Lesbianistic societies we live in, around the world. It is also now time to kill all persons who in any way support the governments of the world, including but not limited to, all school, university, kindergarden, missionary, day care center workers, nursery school teachers, teachers aids or teachers assistants, United Nations workers, United Nations teachers, substitute teachers, catholic school teachers, Irish protestant school teachers, parochial school teachers, all religious denominations around the world school teachers and their school support workers, government funded school teachers, tuition assistance by the government school teachers, all personel who work for the United Nations, all civil service agents, all DEA agents, all FBI agents, all FDA agents, all EPA agents, and workers, BLM agents who are Lesbianists as well as those BLM agents' who are Lesbianists as well as those friends of theirs, who support the Lesbianists.

It is also time to kill all other federal, state, or local, or globally tasked organizations, such as the CIA workers, INTERPOL workers, the several groups of workers within the Canadian Mounties, NIC a spy department of the U.S. Navy, the Korean C.I.A., the United States Presidential Police agents the Secret Service Agents, National Park Rangers, State Park Rangers, Forestry Service workers, Pentagon workers, National Library Of Congress workers, and all others who work in any capacity supporting any government organization, those listed above, and all others, as well as all persons who support the Lesbianists in any way at all.

It is now time to kill all judges, bailiffs, Supreme Court Justices, and the employees who work in their organizations, and all other judges, legal clerks, para legal workers, court stenographers, justices of the peace, lawyers, attorneys, state attornys, prosecuting attornys, defense attornys. It is time to kill all officials of all government organizations, and all the people who work for them and or even only support them, such as restaraunt workers who feed them lunch, coffee shop workers and owners who feed them coffee and food, bars and restaraunt personel and owners of bars and restaraunts who support and feed any and all persons connected to the governments of the world and who work for them in any capacity at all.

It is also time to kill all the money lenders who loan money to the Lesbianists, the mortgage company owners who provide the Lesbianists with house purchasing loans, and all the supermarket workers and supermarket owners, who supply food to the Lesbianists, as well as all of the druggists, the pharmacy workers, who supply medicines to the

Lesbianists. It is time to kill all the taxi cab drivers who give rides to the Lesbianists, and to every person who supports the Lesbianists in any way, at all, unless those people surrender to my kids.

It is also now time to kill all civilian or civil servant or state civil servant worker who supports in any way, any Lesbianistic organization, such as the police departments, federal agencies, fire departments, libraries, schools, and so forth. It is also now time to kill all persons who maintain or provide services to any of the above listed organizations, and to all of the similar organizations in every country in the world.

This is my order to all of you, and you are all ordered, by me, GOd/GOD, to kill all of them, unless they surrender. People also call me, 'Allah'. I'm the same person. Just do as I tell you.

You are to take my fuels' bombs with chlorine plastics' explosives formulas, and all other explosives formulas I've explained about on my bulletin board and the fuels' bombs explosives formulas including but not limited to radiological 'fracturable' rocks that provide so-called 'nuclear' explosions, all of my bombs' formulas, and all other bombs' formulas derived in part or in whole from what we have learned as I've explained on my bulletin board and to take them, and make the bombs and explosives, and to then use them, and then destroy and kill all of the Lesbianists, and all of the Lesbianists military bases, buildings, and kill every last one of them, all of them, leaving no one alive.

'Fivers' To Kill Lesbianists And All The Lesbianists' Supporters

You are to then make certain they are all dead. If they are not dead, you are to kill them with a 'fiver'. A 'fiver' is a bullet with five lines drawn or scored with a knife or sharp instrument into the tip of the bullet, to form a 'five' line pattern, so that the bullet will fracture into 'five' parts.

You are to take three 'fivers' and shoot each person who has not stopped breathing, and who is not dead yet, and shoot the three fivers into the head of the person, to make certain the person dies.

Three 'fiver's will destroy enough brain material, to kill any person if the bullet is large enough, and the handgun, rifle, or weapon is powerful enough.

The handgun bullet size must be at least larger than a .22 calibur, and at a minimum, 7 millimeters. You may use .38 calibur, 9 millimeter, 10 millimeter, .45 calibur, or any other, large sized bullet to make certain they are dead. Buckshot, 8 guage to 10 guage, or any comparable rifle load or handgun load, or home made weapon load, will work equally as well, with three shots into the skull. A machete or similar instrument should then be used to chop the head off of the person at the neck line. If you have a machete or hatchet, or axe, and if you prefer to chop off the head of the person, then by all means, you are to do so. The point here is to kill the person one hundred (100) percent, and not leave the person in a coma.

Coma Patients

A person in a coma is perfectly alive, and can hear every word you are saying, but can not respond. People in a coma after severe accidents, such as near fatal traffic accidents, where their limbs were broken into pieces, or war victims, who are on life support in Veterans' Hospitals, can be in agonizing pain, and no pain medications are given to the patient as the patient has no way of communicating with the doctors, nurses, or staff members to complain about the pain, in many or in most cases, if not nearly all cases. Some patients can write or scribble out a note about the severe pains, or make gestures with their hands, pointing at painful spots they are able to point to, and then making squeezing motions, to indicate as best as they can, that there is something wrong in the area. Some people may catch the meaning of the gestures, but others do not, and may just wonder what is going on with the patient and they may wonder what the patient means by the hand gestures. Others, doctors and nurses, and staff members will merely find it amusing that the patient is making the gestures. Some doctors and nurses, and possibly staff members, will figure out the patient is in pain, and then steps can be taken to alleviate the pain, but it is an ordeal for the patient, and it may take months, or in some cases, years, before staff, cleaning persons, food servers, orderlies or assistants, nurses, or doctors figure out what the hand gestures mean.

The coma patient, after healing from the injuries, may still have residual pains, such as residual spinal pains, or neck pains, or ligament pains where ligaments were twisted, or ruptured, or severed, partially or wholly, and the ligaments didn't grow back properly, or didn't grow back fully, or much, or perhaps, in some cases, not at all, which does happen a lot, and each time the patient is moved in her or his bed, the person experiences extreme pain as no medications for pain are given to the coma patient, unless the patient has been successful in communicating that there is pain felt by her or him, in her or his body.

Leaving coma patients on life support systems is the cruelest thing you can do to a person in a coma as there is no such thing as being 'brain dead'.

It is a cruel and abominable Lesbianists' joke on humanity, and on all persons, that the Lesbianists have perpetrated with their teaching doctors and nurses that coma patients are brain dead, and do not feel, hear, taste, or sense, anything at all, and it is just another one of the Lesbianists' ways to hurt and torture people, and cruelly and ruthlessly abuse human beings, in this case, in most of these cases, by proxy. There are doctors who are Lesbianists, and I have one who is one, that I am aware of, and he knows exactly what causes my health problems, but he sits there, non-responsive, and with a vacant stare on his face as if he doesn't hear, see, or know of any thing that is going on, something like the three monkeys with hands clasped over their, ears, eyes, and mouth, who represent 'hear no evil, see no evil, speak no evil' and then 'therefore, every thing is alright'.

All persons with brains, whether in a coma, or other sleep like state or condition, is perfectly brain alive as the brains and nervous systems, auditory, taste, touch and sense nerve systems, never die, until the patient stops breathing, and passes on.

All nurses and doctors are to remove all life support systems from all persons in a coma, immediately and confirm the persons have died. That will allow them to transel into my Epcot Center, and then be born again, as a tummy baby to a tummy mommy and to tummy daddies.

All persons in a coma, whether in a hospital, or in a nursing home, or at a private home or apartment, or in a group home, or group care center, are to be told the truth of this, and are to be told that you just leared it, and are to be told that I am GOD, and that I have an Epcot Center staff waiting for them to come in, to be treated for their traumatic condition, of not being able to do any thing about their condition to end it, as it is a miserable situation for these people who are in a coma, or in any trance like state or condition that resembles a coma, or a sleeping person, who can not wake up. The person is perfectly brain active, and there are no measuring devices to prove it available to hospital staff or to doctors, as none are made, and the technologies to detect a person's brain activeness and aliveness are kept secret after they are bought up, and then after the records of them are destroyed, and the information on them are kept secret and locked away, in vaults, and in storage facilities, hidden from view so that no one can get the information, and build a device to detect a person's brain alertness status.

After they are told the truth, and that you just became aware of it, you are to tell them to not be afraid, and that all measures to relieve them from their present condition, and all measures to assist them to transel to my Epcot Center, where they can recieve personal care, and then helped to recover from the trauma of the coma, or coma like state of not being able to wake up, speak, and talk to people. They are then to be injected with a powerful sleep sedaditive, or induced to swallow several strong sleeping pills, as they may become afraid, and then, you are to help them to pass on, and to transel over to my Epcot Center.

In some cases, if you pull on the large toe of a person, or on the thumb, the person may have control to pull in the opposite direction. That is an indication that they are awake, and fully aware of what is going on around them. Please check patients to see that they have soundly fallen asleep, and snoring or breathing quietly, in relaxed manner, may be the only sign that the person is asleep.

Any sign of movement, mentally driven by the patient, no matter how slight, is nearly most always, nearly one hundred percent of the time, a sign that the person is completely brain alive, and that the person is completely aware of what is going on around her or him and can hear every thing. Even passing or expelling gas or farting, can be 'mentally' driven, and a sign the person is awake, and alert, and brain alive. Opening one's mouth is almost always, one hundred percent of the time, mentally driven.

Persons's in a coma, who have Eplilepsy, or other similar brain or neuro muscular disorder, and other conditions where patients experience spasming, whether the condition is diagnosed or not, these patients who spasm, may make some spamodic movement, now and then, and that is only a sign that the person is haveing a neuro muscular muscle spasm. Knee jerks or other similar movements, are not always muscle spasms and can be labored, mentally driven actions. These actions show the patient has control to that extent over her or his muscles, body, skeletal system, and other body systems related to the movement.

In any case, after the patient has fallen asleep, you are then to kill the person, and let the person transel to my Epcot Center, so that the person can recover in my Epcot Center, and then be born as a tummy baby, to a tummy mommy, and to tummy daddies.

All Persons Who You Kill Will Transel To My Epcot Center

Once you are certain all of the police, fire, teachers, and all others who support the Lesbianists' societies around the world are dead, they will transel to my Epcot Center.

It is now the time to bring an end to the lives of these people who support the crazed, insepient, bogus Lesbianists, and to destroy them all, leaving no survivors. Kill all of their family and relatives, and leave no one alive. Kill them all.

My Epcot Center will not be in any way, inconveinced by your brave and heroic actions. All doctors must be killed, all nurses must be killed. All medical techinicians must be killed. All library workers must be killed. All school teachers must be killed. All art museum and gallery museum workers must be killed. All workers for all of these institutions must be killed. All of them, in every country of the world, unless they surrender and plead for mercy, and then are allowed in to my kids' place, for swearing in and for joining as civilians, my country.

Further, it is time to kill all media corporations personel, such as news casters, news men, news women, anchor persons, cameral men and women, talk show hosts, administrative persons, Hollywood's movie actors and actoresses, all radio broadcasters, and all personel of all radio companies. It is time to kill all news paper company owners, and publishers, editors, and all workers of these companies, unless they surrender to my children and plead for mercy.

It is time for all of you to kill all of them, and make sure not one of them is left living, including and most importantly, all politicians, who must all be killed, without any further delay. It is time to kill them all.

It is now time to kill Oprah Winfrey, Geraldo Rivera, Sarah Jessica Parker, Judge Judy, Jerry Springer, Liz Taylor, Michael Jackson, Clint Eastwood, Cher Bonno, Morgan Freeman, Steven Spielberg, Al Gore and his family, Hillary Clinton and her family, all of them, Jeb Bush and his family, all of them, Nancy Reagan and her family, all of them, former president of the United States President George Bush, Sr. and his family, all of them, including all persons related to him in any way, and all persons who work for him, in any way, and all persons who work for any of his associates, in any way, unless they surrender to my kids, and then plead for mercy.

We are not going to allow the Lesbianists to continue their illegal, inhumane, and horriblesome practices and activities on my planet, and in my universe, a moment longer. They must all die, now.

Is that understood?

I hope the answer is, "YES SIR! Mr. John Francis Ayres, GOd", as a 'negative' reply to my question is not acceptable.

Japanese And List Keeping

I haven't confirmed it, but from what I know, so far, the Japanese are very good at keeping lists, and they know about all the foreign people in Japan, and they keep lists of names of all of them, and they keep lists of names on all of the Korean people, and the Singaporean people, the Chinese people, the Ainu people, and the cast outs or 'burakumin' a group of meat cutters and fish sellers who some how got on a list of people who were felt to be 'unclean'. The 'burakumin' was a group of people who no one in Japan wished to talk about. The Japanese also, apparently, had lists on groups of people, who they didn't know much about, but they knew they were always doing things with each other. Those groups of people were the Lesbianists, so the Japanese knew all along, who I was talking about and were nearly one hundred percent certain those groups were the Lesbianists living in Japan.

They read what I wrote, and the notes of mine were passed to many people on an e-mail mailing list, and when they heard that Steve Irwin had been killed, they felt they had heard enough and they told all their friends about my notes, and then the Japanese killed all the Lesbianists in Japan on that list they kept.

It's something I heard, and I haven't confirmed it, but I think the Japanese are fully capable of handling that, as they were fully prepared to deal with each one of the Lesbianists, and they knew who they were, and once the Japanese united, and decided to take action. The Japanese escorted all the Lesbianists to a meeting place, to which the Lesbianists were not happy to go to, but had no choice but to agree to follow the Japanese citizens who escorted them there, with the military or Japanese Self Defense Force, the Coast Guard, and

National Police, and all other police agencies in Japan, plus the national organization of fire department workers, backing and supporting all the Japanese citizens.

As to what they did with the bodies of the Lesbianists, I'll leave that to them to explain to you, as it was quite brilliant and they had many very good ideas for dealing with the bodies of the deceased Lesbianists, who are apparently now in my Epcot Center.

The Japanese country side is now peaceful and quite, and things the winds are blowing, peacefully, and gracefully over the Japanese country side, cities and towns, across the ponds, marshes, lillies and lotus flowers swamp lands, bogs, bays, estuaries, lakes, streams, rice paddies, fields, mountains, and islands, from what I can understand and gather about the situation in Japan.

Surrendering And Pledging To Serve All People In My Universe

If the Lesbianists and their supporters surrender to my children, and then promise to devote their lives for the sake of others, serving man kind, and all human beings, and all people on this planet, and in my universe, for the rest of their lives, they will be allowed to surrender to my children, and my children will then arrest them and put them in a prison cell. If they are not willing to serve others, despite the fact that they say they will serve others and devote their lives for the sake of others, serving all people in my universe, then my children will ignore them, and my children will not arrest them because my children know they are lying. They must promise to do all they can that is humanely possible, for the sake of others, and devote themselves to the prosperity of others, for eternity. If they are not willing to do that, then please, just send them on to my Epcot Center, and we'll straighten them out, for there. My staff at the Epcot Center has training programs to straighten them out and make them nicer people, so that next time they are born as tummy babies, they will behave and be nice to others, doing nice things for other people, after they are retrained, a little. The retraining program takes a while, but the results are very good to excellent.

If my kids decide that the person who is surrendering, is telling the truth, my kids will use the special teletransportation technology, something like what we see in Star Trek on tv, with Captain Kirk saying, 'Beam me up, Scotty!', as many of us have seen on daytime tv, or in the movie theater, and my kids have very good teletranportation technology or 'beam me up, Scotty' technology, and the person, once he or she pledges honestly to serve others, will instantly dissappear.

Do not be surprised if when the person surrenders and promises to 'serve others', promising to devote her or his life for the sake of others, the person suddenly dissappears, and instantly, the person is no where to be seen. The person was 'beamed' into a prison cell that my kids have constructed, using other technologies, and we have many prison cells waiting for the Lesbianists and for the Lesbianists' supporters, and for other bad kids in my universe, as well.

For each person you kill, my kids will keep earning points scores on your efforts to send them to my Epcot Center, and you will be paid, when you have finished your job, and then finally, go in to visit my kids. My kids will pay you in the monetary currency that is used in the underground cities my kids have built, for protecting people from these horrible Lesbianists and for protecting people from the abominant kids of mine, and the ghastly and naughty animals and very large bugs and spider like creatures, that the Lesbianists use to help them torture people with, to make the Lesbianists laugh, and to amuse themselves, as I've explained a little about, already. The more Lesbianists and Lesbianists' supporters you send to my Epcot Center, the more earning points you will score, and the more money you will earn, and you will be paid that money, when you go to visit my kids after you have finished your work, killing the Lesbiansts and the Lesbianists' supporters.

If the Lesbianists and the Lesbianists' supporters do not disappear after they surrender, and after they promise to serve others, and pledge to devote their lives for the sake of others, the Lesbianists and the Lesbianists' supporters are lying, and you can then kill them, and send them on to my Epcot Center.

My children will escort the deceased Lesbianists and Lesbianists supporters, once you kill them, into one or an other of my Epcot Centers, and will make sure that the Lesbianists and the Lesbianists' supporters get in for a meeting with one or another of my managers, or with one of the staff members who work with my managers to arrange retraining programs for rehabilitating the Lesbianists and the Lesbianists' supporters.

The Lesbianists and Lesbianists' supporters will not qualify as tummy babies, until they are finished their retraining and rehabilitating programs. After they finish, they will be out, again, to join the rest of you, once again, but this time, as nice, kind, courteous, and polite people.

What Does This Mean?

It means, I want all the Lesbianists dead, but if they will surrender, and if they promise to serve all human kind, all people, and work and strive to enrich the lives of all others, dedicating their lives to others, then, you do not have to kill them, and you do not have to send them to my Epcot Center. If they are honest when they surrender, and when they promise to serve all people, devoting their lives to all people of the world, then my kids will 'beam' them in, using the teletransportation technologies that my children use. If they are lying, then my children will not beam them in, and they will be stuck where they are. If they are stuck where they are, after they surrender to my kids, and after they promise to dedicate their lives to the welfare of all others in the world, and to all others in my universe, then they were lying, and you may then kill them, and send them on their way to my Epcot Center, for retraining, and for rehabilitation.

It also means to kill any person who works for the Lesbianists, if he or she is supporting the Lesbianists to try to stop you from killing the Lesbianists. Also, it means that you should kill any person who tries to interfere with you, while you are trying to kill the Lesbianists.That's what it means.

Captain Off The Bridge.

John Francis Ayres
GOd
And Children

Fermenting Oils - Fracuses Kiddies - Slugs, Snails, And Other Bottom Feeders - Feeding Everybody In Our Bodies - Putting An End To The Global Menace Of The Lesbianists - Changing Our Societies, And Our Universe, Forever Updated: 22-01-07 Rev.x.00.a 07:45 PST

Mix raw sugar, ocean salt, sessame seeds, dried fermented berries you have taken from a mix of berries fermenting as a flural hydrate liqour, or as a plain fermenting liqour, and make sure you dry them out in the oven, before useing them.

Mix the items together in a container, and mix in a drop or two of apple juice, pear juice, papaya juice, kiwi juice, banana juice, cherry juice, cranberry juice, strawberry juice, peach juice, nectarine juice, or plumb juice, and let the moisture settle into the mixture to allow it to become only partially and only very slightly moiste, and not wet or liquidy.

Allow the mixture to sit in a warm or cool place for a week or two, to eight to fifteen weeks, or even a few years, and it will grow molds in it, and with the longer the duration up to a point of sitting and molding, the more useful it will become.

It might develop a pungent, unpleasant odor, like a dead animal smells, which may mean that a fungus that is not very suited for you to use as a starter mold for starting a fermented oil batch has developed in the container, and in that case, you can throw the whole mix out, or use it for fermenting beans or something. Cheeses can be made with these kinds of growing funguses and molds, if you are the daring type, who likes to experiment with new and different tastes from variously fermented mixtures.

You can add some ocean salt, and make a soury vinegar, and then try to rescue it with the combination of the soury vinegar, ocean salt, and a little raw sugar, and some honey.

It may be that some bacteria is in the mix, and it needs to be eaten up, before you can use it safely for a healthy mold mix for starting a nice cheese molds and funguses mixture.

Ocean salt can be added in slightly large amounts with raw sugar. Once the odors have stabilized, and once they have developed a more pleasanty odor of a fermenting mixture, with a slight alchohol ferment odor that will indicate that it is alright to use, and that it will not be harmful to you.

In some cases, the bacteria in the base mix, may be a result of hairs or particles of skin from the body of a dead rat or mouse, that some how found his or her way into the sessame seeds, or into the dried spices, or into dried berries that you used, and then died.

In that case, you might as well throw it away, unless you have a lot of patience, and do not mind waiting and working with it, for several years, for it to become something you can use.

One way to make it into something you can use is to mix in a high potency liqour brew, and let it sit for a number or years, and ferment it, and then after it smells nice and rosy smelling, after ten to fifteen years, to thirty to fifty years, you can evaporate the liquids out in a pail on an open porch that has a net covering to keep animals and animals' hairs out of it. Make sure there is good ventilation, and it should evaporate out, safely after a number of days on the porch in the sun. If there is no heat to make it hot enough to combust, and if there is good ventilation, it will not combust, and it will evaporate out, safely. Adding ocean salt and raw sugar to the mixture so as to fill it up with raw sugar and acidic ocean salts, will further help to safely evaporate out the liquids and prevent the liquids from combusting, accidentally.

Once the liquids have evaporated out, safely, you can use the materials that remain in the pail or container, to start a fermented oils brew mixture, or to start a cheese molds and funguses mixture, if you wish to make a nice cheese molds and funguses mixture.

The particles of skin or hair from the dead rat or mouse, or pidgeon, or other animal, will have been eaten up by all the ferment fracuses kiddies, and will no longer pose a threat to your health.

Fracuses Kiddies

Ferment fracuses kiddies are just plain old ferment kiddies who like to devour large bits of human or animal tissues, mites, or cockroaches, or their body parts, and then poop them out, and pee them out into the liqour brew.

You'll always have some of these kiddies in your brew mixes, and they are useful to you, as they eat up the things that you do not want in your tummy. Also, there are other kiddies, such as snails, and other bottom feeders, that find their way in, in the skins and pulp material as tiny animals, or the eggs of animals, and they hatch, and they develop, and they grow big, and they then bottom feed, and they eat any dead rats, and dead rat parts from rats that might have fallen into the brew. These are useful pets, that you want in your rum and liqour brews, as they will keep the liqour brew healthy to drink, and they will keep you from getting ill.

Slugs, Snails, And Other Bottom Feeders

In the old days of bucanneering, as I may have mentioned, before, this was a crucial part of keeping the sailors alive, on their long voyages, and if crew members fell ill due to an unhealthy brew, with a dead rat in the mix, making it sour, and making it unhealthy to drink, then if there are not enough snails, slugs, and bottom feeders in the barrel or rum to eat the dead rat parts, the sailors will get ill, and when they get back to port, they will hang the rummery owner, and give the business over to the son, or to a third party, often times, one of their fellow crew members, who is liked by all the people, locally, and on the ship.

This is the case, still today, with many rummeries owned and handed down in the same family, from such instances as that.

Bottom feeders, slugs, snails, and many types of bottom feeding earth worms, and other types of healthy bottom feeding worms, that cohabitate well with the slugs, and snails, and other animals that are too tiny for you to see in the rum brew mixture, without a powerful microscope like, optical videoing technology, are essential to your brews mixtures, and they may increase in numbers as they make babies like every animal and living being does, and so now and then, you need to reach into your brew container, with your hand, or with a fine mesh small aquarium use fish net, and scoop them out, and flush them down the toilet, or let them loose in a local pond, lake, mountain stream, or water springs fresh water well, where they will help to keep the water clean, ahd healthy.

Once you have the materials to make your fermented oils mixture, you can add them to your container of food oils, and begin to ferment them, or use them to make a nice cheese mixture, to ferment and then to make solid as it matures with age. You can also use the materials to make a fermented bean mixture, or fermented barley, or fermented rice, or fermented millet, or fermented wheat mixture.

You can also use them to make a fermented brew mixture, as there will be many healthy molds and funguses kiddies in and among the dried out materials. Your health will improve, and by adding different spices, nuts, berries, root particles, ground up kiln dried pine cones that were green to begin with, and then fermented for a few months to a few years, in a brew mixture, then dried out, and ground up into a saw dust powder consistency, you can then have lots of crystals cages salts kiddies of various kinds help you to make a nice regroverative brew, to help you to regroverate your amoebes.

Feeding Everybody In Our Bodies

You know, we need to eat foods to stay alive. We also need to feed all the living animals in our body, to help them to stay alive, so that they can help our health remain normal, from day to day. We also need to feed the amoebes all the foods and juices, salts kiddies, and the poopy liquids and pee liquids, and other liquids with other types of tinier salts kiddies in them, as well as other types of food kiddies, we haven't learned about, yet, but with all of them inside your tummy, you'll be able to feed every one who needs feeding, and then you'll be successful with your amoebe 'auto regroverate mode, on!' formula, so long as you have degunked your body of all the petro chemical oils, kerosene, diesel fuels, and other chemicals, the Lesbianists have been feeding you, from birth, in your diets, if you live in a society, where you are fed baby formula mixtures from Gerbers or Heinze, or any of the other baby foods manufacturers.

Putting An End To The Global Menace Of The Lesbianists

We need to put an end to this practice by the Lesbianists of poisoning us with their petro chemical industry oils and tars salts kiddies, which they use to rot our teeth out, and cause tooth decay, and which they use to cause ulcers in people's tummies, and which they use to cause lots of unpleasant illnesses, and diseases in human beings, and in farm animals. These petro chemical salt kiddies, and formaldehyic salts kiddies, all harm our amobes living beings children, and all the other animals that live inside of us. One day, we will have a lot of people practicing my religion, sexaling, and making prayer statements so as to help us to erase the karmic markups we have, that keep us living under the tyranny of these Lesbianists, and in their societies, suffereing the daily poisonings that cut our lives short. When we have erased enough of our karmic markups with my religion's religious practice of sexaling to purify our selfs and others around us, and to clearify and erase our karmic markups, we will eventually be able to say good bye to the Lesbianists, and their practices of poisoning us, and causing us major headaches, or problems in our lives.

Changing Our Societies, And Our Universe, Forever

At that time, we will be able to say hello to a whole new way of life, and that will be the beginning of our new, thrilling, and excitingly challenging, one world, unified, planetary, global culture, and it will be the begining of our new, thrilling, and excitingly challenging, one universe, universal culture for all of the people in our universe, who we have been living in our universe together with, since we first came out, and began living here in my universe, a very long time ago. We have to start somewhere, and so here we are, now, begining to prepare the foundation for our long and prosperous journey ahead of us, as we clean up our universe, together with each other, and clearify and erase all of our karmic markups, and all of the karmic markups of all my children, and of all living beings who live with us, together with us, in my and our universe. We need to take responsibility for this clean up campaign of ours, as we are the only ones, besides my many worker, unionized children, who can use our brains, and use our sexaling organs, to produce purifying energies of all types, to help us clearify and erase all of our karmic markups, and all karmic markups, and karmic things and dings, of all of my animal children, and of all of my living beings children, and of all of my human children.

My kids have built underground cities, to help us to get started, in learning about the new ways of living together, and of sexaling together, for practicing my religion together with each other, so that we will be able to prepare ourselves, for our new global, unified society, and for our new, universal, united, civilization. We have a long ways to go, but we are starting now, with your efforts to correct this situation by eraseing the karmic markups and karmic things and dings, that have us living in this truly awful situation on this planet, in our universe, that we are now, curently living in. One day, when all the Lesbianists are either dead, or have surrendered to my kids, we will be able to gradually educate ourselves, and change our understanding about women and girls, and about men and boys, to understand the truth about women and girls, and about men and boys, and then we will begin our new and exciting journey into our future, together, with my religion at the basis of our new, unified society, universal culture, and universal civilization.

Captain Off The Bridge.

John Francis Ayres
GOd
And Children

Donations To GOd - Monastic Mode - Who Works For Me, Anyway? - Obeying Orders - Every Politician In The World To Be Executed - Every Hollywood Actor And Actoress To Be Executed - Jump Ship, Explained - Fair Warning - Particle Remis Technology And Particle Dismiss Technology - Dismend Technology And Remend Technology - Mentalcosis / Mentaltosis And Comatosis - Michael Jackson - Retractions Updated: 26-01-07 Rev.b.02.a 06:45 PST

Donations To GOd

Why can't anyone donate any thing to me? I am GOd. So, how come no one can send me a penny in the mail, or a box of cookies, or a pair of socks, or something? I don't think I'm asking for too much, but I'm just curious about why no one can send me anything in the mail?

I don't get any phone calls. No one sends me any e-mail. No one tries to visit me. I have a religion, and I'm asking people to practice it. Now, how come no one can contact me?

I once said that I am in a monastic mode, and it is a cloistered monastic mode. That means, no one can be contacted out side of my monastery by any one inside the monastery, and no one can contact any one inside the monastery, by any one outside the monastery.

If there is no legitimate monastery business then no person will be allowed to contact me, or for that matter, any one else inside my monastery, who is leading a monastic life, with me.

Well, there is only me, right now, but maybe in the future, some one will be in my cloistered monastic discipline with me, helping me with my religious duties of doing my religious ceremonies, as I've mentioned about, before.

Monastic Mode

What does my 'monastic mode' mean? It means that I am here as GOD. You know, there is only me. I of course never sent any one, such as the Lesbianists claim. Why would I? I don't need any one to do the things I need to do. That's sheer idiocy to think I would have a son or daughter, and send them to do my business. That's absurd. You've been snookered into believeing all those hogwash tales, and now you don't know who I am, and you don't have the karma to believe in me, as a result of your following and believeing all those hogwash tales. My kids are everywhere, and they are doing their jobs.

Who Works For Me, Anyway?

Now, as I've been saying, I'm going to have you do your jobs, and that is to use your genitals, and to use your body, and to use your brains, and then participate in my religion, using your genitals and your body and your brain, and sexalate with each other, and purify your karma? Does that sound like a joke to you? If it does, you are very mistaken because it is not a joke in any way, and I am absolutely serious when I say that you are going to use your 'equipment' and I almost want to call it, your 'field' equipment, because you are armed with it, day and night, and you are going to use that equipment, to clearify and erase your karmic markups, and to purify my universe. Is that okay with you? I hope it sure the hell is, as a "NO SIR!" at this point, would be an unsatisfactory reply. Do you understand me? I hope so. You are going to jump ship, as I order you to, or be thrown over board, if you have a problem with that. I hope you understand.

Well, as far as I can figure it, no one realizes that I am GOD, so no one can donate money to me. If some one realizes that I am GOD, than for the first time, that person will be allowed to donate money to me. That person will be allowed to visit me, or call me on the phone, or donate money or food to me, or practice my religious ceremonies with me, if that person believes, and understands, and realizes, that I am GOD.

Right now, there is no one who realizes or understands that I am GOD. No one of course believes I am GOD. Never the less, I am GOD, and I am sitting here, waiting for donations, to help my ministry get started.

So, that is the reason that no one can get through to me, or donate money to me, or send me a postcard with some kind of message of cheer and support in it.

There doesn't seem to be any body who believes that I am GOD. Well, that isn't surprising. People do not have the karma to believe that I exist, is one way of looking at it. They have ignored my existence, and have not had any real thoughts about me that would link them to me, in my monastic mode.

What does that mean? It means, that no one remembers me, as the guy who created all of you.

It also means, that I am in a religious mode, and no one understands that, or believes that I am in a religious mode.

That is peculiar, since I am giving you a religion, one of my oldest, for you to practice, that will assist you in purifying your life, and that will assist you in eraseing and clearifying your karmic markups.

That's very peculiar, but it is not that peculiar, as you do not have the karma to realize and understand that I am GOD.

In any case, there will be no donations, no telegrams, and no phone calls or letters to me, so long as you do not realize, understand, and then of course, believe that I am GOD.

Well, any way, so it goes.

Obeying Orders

Now, I want all these people, killed. Hillary Clinton. Bill Clinton. Chelsea Clinton. Ted Kennedy. Al Gore. Tipper Gore. Harriet Gore. Cheryl Gore. Dave Gore. Bill Gore, and all people who call them selfs, Gore and pretend to be related to Al Gore, or to Tipper Gore. Mr. Al Gore has lots of friends, who are also Lesbianists, and I want them all killed. Oliver North. Monica Lewinsky. Eve Arden. Elizabeth Arden. Michael Jackson. George Bush Sr. and all other George Bushes. Do you understand what I mean? It means, that they are all Lesbianists and they are all going to die, and we are going to blow up Washington D.C., and destroy Capital Hill, and level that area, and make it sink beneath the waves of the Atlantic Ocean. That's how big a bomb I want you to make, with my fracturable rocks, to then blow that area out of the water, and make it sink below the waves of the Atlantic Ocean. You'll probably need more than one bomb.

Did you know that Washington, D.C. is lying on a fault line, deep down, and it is on an ocean shelf, that has the ocean under it, lapping at the earth, very far down. That means, that it is on a fault line, and it is on a shelf, that is hanging over the ocean's waters.

Now, if you hit Baltimore, and Maryland, and Northern Virginia, and Washington DC with a large enough bomb to blow Baltimore out of the ground, and level it, and with another bomb large enough to blow Washington DC out of the ground and level it, at the same time, and a few more bombs, large enough to blow Maryland, Virginia, and that whole metro area out of the earth, at the same time, you will sink the nation's capital, that is, Washington DC, below the ground, as it will break off the ledge that it sits on, and it will sink into the ocean, as the ledge crumbles below it. There will be water, from the Atlantic ocean, all the way out to West Virginia.

Now. I have every right to say that, and demand this, as it is a matter of self defense, as I know these motherfuckers are eating people, cannibalizing my kids, for their amusement, thrills, and fun, and they will continue to do that UNLESS THEY ARE STOPPPED! Do you understand that?

I hope so. I am going to see the whole of Washington DC and the area leveled, with Baltimore, and Northern Virginia, and Maryland, as well, and we are going to sink that area into the ocean, and make it disappear below the surface of the waters of the Atlantic. Now, that should be clear, shouldn't it.

This is not a joke. We will have to send a lot of my children to my Epcot Center, in the blasts that will occur, and in the after math of the blasts, but that is unavoidable.

We will have many people, drowning in the waters that come in from the ocean, and that stretch out to the hills of West Virginia, with only slight outcrops of land, hills, here and there, with a few people lying on top of them, blinded and in awful pain, but they will not live long, as they will not be able to survive for long, and they will pass on, die, and then they will transel to my Epcot Center, where they can get medical relief, medical treatment, therapy counseling, and rehabilitative therapies.

Now, that is what we will do to Washington DC and vicinity, so every one, please prepare for it, and get your pain medication in order, so you can take an over dose of pain pills, when your area is blown and shredded to bits, with one or more of my fracturable rocks bombs, as I've explained about.

Every Politician In The World To Be Executed

Next, I want every politician in the world, canceled out. I want their passports for living on our planet, canceled. That means, I want you to kill each and every one of them. Not only do I want you to kill them, all, but I want you to kill every single one of their associates, around the world. They are all Lesbianists, except for a few of them. If you happen to kill one of the non Lesbianists policitians by mistake, that is okay. They have the option of surrendering to my children, available to them, and once they surrender, they will not be killed, by accident.

Every Hollywood Actor And Actoress To Be Executed

After that, I want every Hollywood actor or actoress killed, and that includes all the actors and actoresses, around the world, and they must surrender to my kids, if they wish to not get killed. There are a lot of them, who are not Lesbianists, so those I've mentioned, who

I've let you know are not Lesbianists, you can forget about them, and leave them alone.

There are more than a couple of billion Lesbianists living under the earth's surface, in underground cities. I did not realize there were so many. We need to kill them all, so we will, in time, unless they surrender.

Is that clear, every body? I hope the answer is, "Yes, Sir!" as you had better not answer any other way, or you will get yourself on my shit list. Is that understood? Good. I am the boss of my universe, so if you do not like it, than jump overboard, now, sailor. Have you got that clear? Good.

Jump Ship, Explained

What does 'jump overboard' mean? It means you are going to have severe problems with me, if you do not obey orders, and that there will be difficulty and jail time, ahead of you, if you continue to ignore my commands to you. It means there is going to be trouble, if you do not obey me. My kids are in charge of handling all the details on that, and it is not a joke.

Fair Warning

We are not going to let these Lesbianists run their show, one more minute. We are going to put an end to them, and their activities, here on this planet, and every where else in my universe, and this is fair warning of that.

Particle Remis Technology And Particle Dismiss Technology

As I said, once before, there is a technology called particle remis technology. There is also a technology called particle dismiss. They are the technologies that you can use to feed 2.3 billion Lesbianists down under the surface of this planet, and on every other planet that they are on.

Dismend Technology And Remend Technology

It is easy to dismiss molecules, and to dismiss, or dismend all the beings who need to be dismended, and sent to my Epcot Centers. It is also easy to remend them, and then get them back into the foods that I need them to be a part of.

My kids keep track of every one who needs to be dismended, and then remended. That is a lot of work, keeping track of every one, but that allows us to dismend the living beings, and animals, that I can let off from duty, and from further service, and then send to my Epcot Centers for them to live in. I can then recall them to duty, and remend them, and then have them serve in an apple or an orange, or banana, or a brick. Do you think that is a joke? It is not a joke, and there is no joking allowed, on my shift. Do you got that? I hope so, because if you do not, you will have to learn how to swim a long ways, as it is going to be a long way from shore, after I ask you to jump over board, and I have sailors who practice, all the time, just to show the passengers how it is done, just in case. I will have you jump from ship, if you do not get along with me, and if you disagree with what I am doing, pretty soon, as we are departing, now, or just about now. That means, we are not going to play around, much longer, and we are going to set sail. That means, there are going to be a lot of people practicing my religion, pretty soon, as they will learn about it, and they will begin practicing it.

Mentalcosis / Mentaltosis And Comatosis

Mentaltosis is the state of a vegetable, like a stalk of cellery, or a plumb, or an orange. Comatosis is the state of complete awareness of self and others. Comatosis is not brain dead, i.e., more or less, mentaltosis, with no real significant brain activities occuring, other than the ones that keep you alive, and vegetative, and you do not need assistance to remain and function in a state of mentaltosis, and the Lesbianists know it. You are severely brainally handicapped, and when you come out of it, eventually, after you have your karma fully completed for being mentaltosically ill, and after it is then time to get on to something else, you will be very brainally handicapped, and you'll be an extremely retarded person, with little to nearly no brain awareness going on about self and others, but able to walk, barely, and later, after many many lifetimes as a mentally retarded individual, you'll begin to be able to mumble a little, or babble a little, for umpteen lifetimes, as you begin to get your higher brain functions, back, which takes a very long time to work out, and many many lifetimes to work out, karmically.

Comatosis is like a hit on the head, and when you wake up, your faculties are not all working, and you may not be able to speak, or move, or talk to your friends, but mentally, you are all there.

Mentaltosis is like a train ran over your brain, and every other nervous system in your body, nearly, and you are completely unable to think, or do any thing else, and you are reduced to a mere pumping heart patient, with not much else going for you, except you are breathing, and technically, you are alive. You can sit there for a million years, or a million or so life times, before you begin to come out of it, and then reveal your disorder of severe mental disorganization, mental disfunction, and mental retardation. There is a big difference between a bonk on the head, and a train running over it, and the rest of your body. Coma patients are fully aware of what is going on around them, and they may not be able to speak, but they are there, and they can twitch a finger, now and then, or flex a toe, or raise their tummy up a tiny bit, to pass gas, usually, and relieve the bloating sensation they are experiencing in their tummy, and in their intestines, or colon. They may be able to grasp your hand, and fully hold on to it, and not let go, for hours, if they have the strength for it. This horrible torture the Lesbianists are perpetrating on comatosic patients, needs to end, now. Person responsible for continuance of hospital policies, despite our informing them of the truth regarding this, are to be shot and killed, and sent to my Epcot Center, if they interfere with the removal of the life support and life support assitive devices, that are plugged into the comatosic patients mouth, or nose, or other orifice of their body, or any part of their body. If some one refuses to cooperate, you are to throw them out of their hospital unit, and give them a good whack on the head. Come back in a few days, and then disconnnect their life support assisitive pumps, and tubes, and so forth, and shoot them in the brain with three 'fivers', as I've explained about, and then send them on their way to my Epcot Center. That is an order. Now do it.

I want you to pull the plugs on all the GI's and civilians who are on a breathing assistance machine, and life support assistance equipment, and I want you to send them all to my Epcot Center, where they can get treatment, and therapy, and then get themselves ready for being born, again, as a fine and a healthy, tummy baby to a tummy mommy, and to tummy daddies. You had better comply, if you know what is good for you, as my kids are now keeping track of your records on this account, and you are not going to do very well, if you do not follow orders. Is that clear. I will not have any insubordination of duty on my watch, and that means, you had better learn to follow orders, or you will be asked to jump over board, and then go for a very long swim to shore.

Michael Jackson

Michael Jackson is the biggest joke in the world. He is a white boy, and he pretends to be related to Janet Jackson, a black woman, partially, and they pretend to be related, and he is as white as an elbow macaroni, or a white goose. He is not a black person, though he does have some black ancestry, but he is a primarily white person, and he pretends to have bleached his skin color, which is a crock of shit. Now, I want you to kill that mother fucker, as well as Sylvestor Stallon, and Arnold Schwarznegar, Clint Eastwood, Morgan Freeman, Kirk Douglas, Matt Damon, Robert De Niro, Anthony Hopkins, Gary Busey, and their Lesbianists' buddies.

Retractions

Mr. Jerry Springer is not a Lesbianist. I was mistaken about him, as he was already killed by them, in a previous lifetime, as he developed a desire to bad mouth them, and they didn't like him, and they kicked him out of their group, and they killed him, with their murderous torture routines. Penelope Cruz is not a Lesbianist, but she was, but they killed her, and tortured her, and she is off the list. Angelica Huston is not a Lesbianist. She was, but they killed her, after torturing her. She is a popular and prominent person, and if she hasn't been abducted yet, by the Lesbianists who will feed her to my abominant kids, like they did to Steve Irwin, and Jeff Corwin, then they will be gettting around to it, not too long from now, as they like to feed her to the abominant kids of mine, just as they do Bill Gates, and lots of other, former Lesbianists. None of the Baldwin brothers are Lesbianists, either, as they were already kicked out, and killed by them, and then grievously tortured by them. They continue to be main attractions for feeding to my abominant kids. Jack Nicholson is not a Lesbianist, now, either, but he was. Ben Affleck is not a Lesbianist, as he was also kicked out of their organization, after they tortured and killed him. Charley Sheen is not one, either, but he was. Martin Sheen is not a Lesbianist, but he works for them, and he was one, before they kicked him out, after they tortured him, and killed him, in a previous lifetime. Michael Douglas is no longer a Lesbianist, either, as they killed him, after their brutal torturing of him. He is up for being abducted, and for being fed to the abominant kids of mine, as he is a prominent person, and Kirk Douglas enjoys watching him get eaten up, and Kirk Douglas will laugh his guts out, as he watches Michael Douglas get tortured by the Lesbianists, which Kirk Douglas is a confirmed member of. Cher Bonno is not a Lesbianist, as I was mistaken in memory, though she was a leader for a while with Oliver North, she was killed by them, after being tortured, because she was getting "soft". Sunny Bonno was a Lesbianist, as well, but he was also killed after being tortured, officially kicking him out of the members league of Lesbianists. Sunny Bonno was captured, and abducted, and a body double was placed on a coroner's table, and Cher Bonno knew that the body double who was dead, who looked like Sunny Bonno, was not Sunny Bonno. The Lesbianists subsequently fed Sunny Bonno, after they captured him off the ski slopes, to my abominant kids. Elizabeth Taylor was thrown out of the corp of Lesbianists, after they heinously tortured her, and murdered her, and the Lesbianists have her slated, scheduled, after they find a way to abduct her, for feeding her to my abominant kids. Dennis Miller is not a Lesbianist. Though he was one, after torturing him, and sushi-izing him, please see my notes on that, the Lesbianist's sushi-izing of Dennis Miller eventually killed him.

It's hard to keep track of some people, as to whether or not they are currently Lesbianists. Others, are not so hard to keep track of, and I want all of those mentioned, killed, immediately.

Captain Off The Bridge.

John Francis Ayres
GOd
And Children

The Gurkian Way Foundation Ministry Institute
johnfrancisayres @ yahoo.com
Google Groups NewsGroup: http://groups.google.com/group/gurkianagegurkianway
Yahoo Groops NewsGroup: http://groups.yahoo.com/group/gurkianway/

John Francis Ayres
5540 West Harmon Ave. Apt. #2004
Las Vegas, Nevada 89103
USA

(702) 894-9518

Chief Priest and Head Abbot
Gurkian Way Foundation Ministry Institute
Cloistered Conservatory And Cloistered Monastery
West Tropicana Ave. and South Decature Blud.
Las Vegas, Nevada 89103

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trek.voyager,rec.radio.amateur.homebrew,alt.politics.usa.republican
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When Ready! Cease Fire Procola! Pt. II/III
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Injection-Info: m58g2000cwm.googlegroups.com; posting-host=172.193.227.47;
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alt.tv.star-trek.voyager:2368 rec.radio.amateur.homebrew:9036
alt.politics.usa.republican:312808
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On Praying, Fucking, Sucking And So Forth - Excercising And Activiating To Music Timed To One Thirty Seventh On The Metronome - Fisting And Punching People With Your Clenched Hands And Crasping Or Clasped Knuckles - Phlooching Out And Fisting The Vaginal Cavity, Rectal Cavity, And Mouthal Cavity - The Importance Of Kindlyness And Teamwork - Phenomenal Elegance - Plurlbalescent / Plurablescent Nature Of Negative Punishments And Positive Rewards - Timed Persuasive Mosture - Keeping Every Thing And Everybody In Harmony And In Synch - Deep Sea Ocean Trench Off The East Coast Of The United States - The

Shelfs Systems And Trenches Systems - Side Bender Currents - Making A Large Swimming Pool - Stagnasis - Black Powder 'String' Fuses - Black Powder 'Cap And Ball' Pistols - Zircon Diamonds, And Other "Radio Active" Gem Stones, Etc. - Higher Temperatures Develop More Useful Energies For Making Babies - Geiger Counters And Their Usefulness - Novice And Amateur 'Rock Hounding' Rock Collectors Clubs - Decontaminating Your Self With Ocean Salts - Ancient Dry Lakes - Hydrolific Pressures From Water Falls - Underground Lakes - Baha Mexico - Finding Good Rocks - Sledgehammering Continents And Land Areas Where Lesbianists Live, Hiding Below - Topsoils - Disintegrating The Milky Way - Retraction Updated: 12-02-07 Rev.a.00.a 12:05 PST

On Praying, Fucking, Sucking And So Forth

You are rewarded for praying Nam Myeo Ho Ren Ge Kyeo. You are also rewarded for fucking, sucking, tounging, licking, fingering, dicking or massaging your dick against a woman's bun bun, or inside of her butt hole, where there are lots of sensitivities buttons that get her clicking and eroteming and orgasming, or against her titties to get her eroteming and orgasming, and so on, and for palming or massaging a pelvital button, or the love and joy stick, the dick, or a love button or love patch, igniter switch, or whatever nerve sending touch sensitive love joy button there is embedded into your body, in the pelvis, groin, vagina, and in the musculatures of the groin, pelvis, and vagina, with the palm of your hand, and so on. You also get rewarded for throating a woman with your dick, as there are lots of love buttons in her mouth, and throat, lips, and so forth. Men also have love buttons in their lips, throats, tounges, mouths, butthole, and on their body, and those buttons also get clicking, and turning on and off, and sending sensitivities messages or signals, nerve pulses, up the eroteming nerval system and up the orgasming nerval system. You get rewarded for dicking men and boys in the throats, and in the buttholes, and their bodies, just as you get rewarded for dicking women. There is no discrimination in this area, and every one is equally rewarded for their meritorious acts of dicking others, women, girls, men, and boys.

Why are you rewarded for praying Nam Myo Ho Ren Ge Kyeo, and for dicking, fucking, and sucking, bumbeying, or moving your vaginal bumbey package against a woman's sexaling body parts to erotemize your self, and the woman, and for breasting your titties, i.e, rubbing your titties against or flopping them against and massaging them against a woman's butty butt or against her other sexaling body parts to get you and your friend sexually erogenized i.e., sexually stimulated, erotemized, and orgasming, and for other sexaling activities that help you and your friend and friends to produce purifying sexaling energies?

You are rewarded for your praying and for your fucking, sucking, dicking, and so forth, for helping to get every thing and every body going at the right pace in synch with every thing and every body else, for every body in my universe who is working for me, to keep them moving in harmony, perfectly meshed and in synch and in a timed persuasive mosture, with each other, so as to keep my universe standing up, strong, wholesome, robust, healthy, well, and fine. You are rewarded for praying as well as for sexaling, as you help move my children along as they do their work, as you pray and as you sexal and spray out energies from eroteming, from erotistically orgasming, and from sexually orgasmically convulsing, i.e., phlumetting, while you shatter out and spray out purifying energies in all directions, that will clearify and erase your karmic markups, and the karmic markups of others, all around you, for millions and more of miles, way out beyond where you are activiating and religialing, i.e., sexaling.

Your dicking, sucking, licking, titty massaging others, and so forth, will get wonderful and wholesome, GODLY, purifying energies shooting out of your bodies, and the energies shoot out at rates of speed that also help my universe to keep synchronized, and to move along at the right pace for it to be able to stand up and remain stable and solid, durile, strong, wholesome, pure, and a nice place to live in.

Every one who works for me, has a rate of speed they work at, a life pace, or life spin.

We all have a pace of life. In some cities, it is fast and hustling. In some places, it is slow and whimsical. My kids work according to a rate of speed that is metered, and they keeps every one moving as best as they can, according to this metered pace.

The metered synchronized pace that my children work at the rate of is one thirty seventh and one fifth, approximately, on the metronome.

If you help to push my kids along at that rate of speed, or a rate of speed that is close to it, as you pray at a metered synchronized pace and rate of speed, and as you fuck, suck, and so forth at a metered synchronized pace and rate of speed, then you are rewarded with angel dusts, or purifying energies faerie dusts that my kids daub on your head, and throw buckets loads of over your head and body and that they wash your insides out with and that they wash your body, inside and outside, with as they shower them all over you on the outside of your body, and all around in your body on the inside of you, which then help to clean you up and clearify your karmic markups, cleanse your karma, and purify your life, making you a shining, radiant, pure and holy being, though you may not notice at first, as we are too filthy, karmically speaking, to notice the changes, as our karma is too thick and mucky to allow us to feel the changes that are taking place in our karma and life.

I have a gradient scale for how close you keep people moving, and at what rate of speed you help to push them along, and as you help to push my kids along, so that they can do their work, you are rewarded, in accordance with my gradient scale, with more angel dusts or purifying energies for better preformance, and with less angel dusts for poorer or less effective performance.

You have to do some thing that will help my kids move along at a metered pace, so that they can get their work done. Praying Nam Myeo Ho Ren Ge Kyeo sets off a time frame synch. A time frame synch is the metered click, click, click, of the metronome. This time frame synch or metered pace, that you achieve while praying, Nam Myeo Ho Ren Ge Kyeo, will help keep every one moving, at the right pace, if you pray it in a rythym and at a rate of speed that will synch up with a metronome at one thirty seventh and one fifth, approximately.

Your efforts to help keep my kids working and moving at a consistent rate of speed, will get rewarded, thus for praying, Nam Myeo Ho Ren Ge Kyeo, you are rewarded, with purifying energies, that my kids dump on you.

Your efforts for fucking, sucking, licking, tounging, titty whipping or banging your titty nipple against the vagina of a woman or girl, dicking, fingering, palming, and so forth, all get rewarded, if you try to keep every thing in synch with the metered pace of the metronome at one thirty seventh and one fifth, approximately.

The gradient scale also applies, of course, as you are fucking and sucking, etc., so the better the job you do of keeping your pace at one thirty seventh and one fifth, approximately, the higher your rewards will be. Your rewards are the same, more or less, for both praying and for fucking and sucking, and my kids sprinkle and dump angel dusts, purifying energies, on you as a reward. You also get markups that are meritorious, and you are rewarded with a better and happier life.

Further, when you are orgasming, and eroteming, or pushing out energies as you orgasm, and erotem, you will be pushing out energies that shoot out at consistent rates of speed. These rates of speeds of these energies are in concordance with our pace of life, they all perfectly mesh with the paces of life that my kids keep. The energies as they pass out, and push along through time and space, at synched up and consistent rates of speeds, all help to keep my kids moving along as they do their work and tasks, and they all help to keep our universe, standing up, strong, healthy, wholesome, well, and fine.

Chaos breaks the legs off the foundation to our universe, and our universe begins to creak and moan, as it begins to crumble, slide, twist, and tumble downwardsly.

Making chaotic noises, and chaotic movements, detracts from the harmonics of our universe. Your breaking glasses, and breaking skulls, and legs, and arms, are also chaotic events producing, in most cases, and they will detract from the perfect synch up of our universe, as leg bones and arm bones, skulls, fingers and toes, begin to splinter, as you apply pressures to them, you get negative markups for your actions. A record is kept of every chaotic action you take, or make, and if you make enough chaos, in your lifetime, and in your following lifetimes, then you will suffer from your poor records of performance for keeping my universe standing up, wholesome, healthy, happy, and well.

Every scream you cause to be vocated or vocalized, is recorded, and the intensity of the scream, and yell, and crying out in pain, plus a lot of other factors involved, are all recorded by my kids, and you get negative marks for that kind of performance.

The love making oooohs, and aaaahhhs you cause to be vocated, are harmonic appeals of soothing restfullness to the spirit, and to the mind, are also graded, and you are graded on how well you can cause others to produce them, and your scores are kept, and if you are a lousy performer, with more negatives than positives, you'll end up with a lousy life, as a result, as you are rewarded in accordance for your positive performance, as well as for your negative performance.

Helping to keep all of my children working in harmony, and doing their jobs and tasks, at a metered pace, will be rewarded, not only with angel dusts, but also with a better life with more positive fortune, as you recieve positive points or merit points for your collaborating with my children, and working to support them, and more fun as your life becomes graced with more positive merits and as your rewards begin to pile up, and more good things begin to go on in your life.

If you sit on the side of your chair and have a pair of drum sticks, or are using a bongo drum, or calypso drum, with the long tube belly, or stack, a long barrel tubed drum, or if you sit at your drum set, or set up your electronic drum pads, and begin pounding away, in a syncopated manner, for your pleasure, just drumming away, with no notion in mind as to any thing other than achieving a nice rythym for you and your friends to listen to, if you happen to be with friends, your merit points will be near zero, and your efforts will not rate on my gradient scale, as your actions will not be in accordance with my program for a better universe for all people, and for my kids to live and work in.

If, however, you have the attitude, "I wish to support John's kids, and syncopate myself while I'm drumming, so as to be supportive of John's kids, to help John's kids work in a syncopated manner, doing all I can to support John's kids", then, your merit points as you drum, will go sky high, through the roof, and you'll get meritorious benefits for your efforts, or merit points, and good marks, for your efforts. It's like helping kindly old women, who are frail and in need of a helping hand and support, cross the street. If you act in a kindly and charitable manner to help support those around you, you get meritorious points for your efforts. These efforts of your's, however kindly, regrettably, though they are kindly efforts, are not the kinds of efforts that we need, my kids and me, need to keep my universe standing up, and moveing strongly. For efforts that support my kids work environment, and that lend a hand to them to help them to get their work done, your meritorious efforts marks will go through the roof, and you'll be blessed with angel dusts, i.e., purifying energies that help to clean up your karma, and erase and clearify your karmic markups, or marks that record your bad and cruel, or negative actions towards others, and towards your self. You can kill your self, and cause grief to others, as a result of your departure, to my Epcot Center, and that rates negative marks and negative points markings or markups for you.

When you try to do any thing, that will help to syncopate my children, and to make my children's working environement more syncopated, and rythmical, with your concentrated mind, and determination to make that a reality, in other words, a prayerful attitude in mind, hoping to make John's children's working environments syncopated, and rythmical, and in rythym with every one elses', i.e., all of my other kids' syncopated working environements, then with that attitude of hopefulness, or a prayerful attitude, than, you are rewarded for your efforts, and determination, and as you drum away, or pound and beat on your calypso drum, or on your metal Bahamian or Tinian, or Haitian, or Jamaican, drums, or on your dresser drawers, if your mom does not mind, as you pound away, keeping your mind set on your determination to keep all of my kids working in unison with each other, and helping them to keep in syncopated harmony, all in perfect flux, and perfectly meshed in timing, with every one else, as they work for me, then your rewards and positive points markups, will be very high, and you'll be rewarded by my children, with angel dusts that they daub on your forehead, and dump all over you, from their barrels they carry full of angel dusts, or purifying energies to clearify your markups from your karmic markup piles, kept inside of your body, kept in storage in the molecules.

Your markups are inside the molecules inside your body, but they are also out side of your body, in every molecule, nearly, going way out to the very farthest edges of my universe.

We will eventually get to all of them, and purify or clearify and erase all of your karmic markups, the notations and records that my kids keep on you, and on your activities, and eventually, we'll get them all, and your life will then be full of grace and happiness. It will be a long time before we get to all of them, as you and I and every one in my universe, have been here, and enormous length of time.

As you drum, or skip, or dance, or do areobics, in syncopation, with the attitude that you want to keep all of John's kids in step, and in synch, and in unison and harmonicly meshed and in perfect flux with each other, or perfectly meshing with each other, and every one else who works for me, whether you drum, skip, dance, or do areobics, it does not matter, if your mind is set and determined to help my kids, with your efforts, you will be rewarded for your efforts, no matter whether you skip, jump rope, dance, or areobically excercise.

As you sexalate, if you keep in your mind that you wish to keep all of John's kids in syncopated harmony, perfectly in flux, and in unison, just as when you are drumming, or skipping rope, or dancing, or playing basketball, or playing tennis, or badminton, or any sport, with your movements all timed, and in perfect syncopation, when you sexal with the right attitude to keep John's kids in synch, perfectly meshed in perfect accordance and flux, with each other, and with every one else, you will be rewarded grandurally, that is, grandly, or in a grand or very great manner.

Excercising And Activiating To Music Timed To One Thirty Seventh On The Metronome

Music timed to one thirty seventh on the metronome, and one fifth, or as close to one thirty seventh on the metronome that you can get, is okay, and it will help you to dance, play tennis, play sports, do areobic excercises, and other types of activities, at that pace that we need to keep to help keep my kids working smoothly, and you'll be graded on your performance, and on your attitude while you are dancing, or excercising, and the more intently you concentrate and use your mental energies and mental control to stay in synch, and in step, the better will your scores be, and the higher your marks, and the greater your rewards of purifying angel dusts and purifying energies that my working and unionized kids will pour and spread all about you, inside and out, and all over you.

Sexaling itself is a religious act. Yes. That's true. But, if you sexalate with this powerful prayerful attitude, or hope in mind, with your determined mind, and your concentrated mind, as you sexalate, and help others to sexalate, and help others to erotem, orgasm, phlumett, and shatter off wonderful energies from orgasming, eroteming, and phlumetting, your positive points and merit marks, and many other types of scores my kids keep on your efforts and behavior, all of them will go higher than any one can see, way out beyond the furthest galaxy that you can possibly see from your bedroom window, with your telescope. They'll go out to the futhest edges of my current univerese, and even beyond the barrier walls, holding up our universe, that my kids put in, to keep our universe standing up, stable, strong, and durile or durable and with tensile integrity.

Any action for helping my kids do their work, syncopated, and in unison, and in harmony, will be rewarded, with angel dusts, and with positive marks and score points in your records that we keep on you and every one else in my universe.

Your sexaling actions get rewarded, far more than any other activityating, as your sexaling actions are the most needed actions, to keep my universe, pure, durile, holy, sacred, free from negativities, healthy, wholesome, stable, and constantly in a state of improvementing.

Most people go around destroying things, and causing chaos. We, my kids and I, need people who are going to help improve the wonderfulness of our, my, yours, my kids, and all of my other kids, wether they work for me, or not, meaning, all of my guppies, who are like you, my relatively normal kids, as well as all of my abnormal kids, the abominants kids I've got, that go around thinking it is funny to eat people, and to pull them into their mouths, and crush them in miserable pain and agony, like my elephants abominants kids do to relatively normal human beings kids of mine.

covering her hips, pelvis, lower pelvis, pelvital ridge, crotch and groin, butt and butthole and lower back, there by exposing her butt and vagina. If you compare a vagina with a phlooched out butthole, you will see they resemble each other, slightly. There is no vaginal cleavage of course, around the butthole, but there is a slight resemblence between a phlooched out butt hole, and a vagina, or vulva, none the less.

The Vagina And Vulva Compared To The 'Nanny Gated' Butthole

What is the difference between a vagina and a vulva? They are more or less the same, but the vagina includes lots of parts, inside as well as out side. The vulva is outside, basically, only, as far as I understand and remember these things, now.

When you massage a butthole, long enough, it will begin to look like a vulva, or vaginal face. That's called the nanny gate, or on the male, the male butthole vagina, as I've spoken about it, before. On the woman, it is the female butthole vagina, a double 'immitation vagina' for the real one, as I've mentioned. Men's and women's buttholes are the same, and they both look like 'immitation vaginas' as I've also mentioned, after you phlooch out the butt hole of either the female or of the male.

Once you phlooch out the butthole of a man or of a woman, it will poof out, and expand, and the butthole entrance and cavity will become relaxed, and easy to insert your clenched fist into, to then push up your fist into the butthole cavity, and massage it, once the person has cleaned out the butt hole cavity and once it is clear and free from debris matter, or food matter, and rotting food particles, and fleshy foods, or hamburger meat and so on. Phlooching out the vaginal caivity takes a little longer, but with patience, you can phlooch it out, and then fist, in this manner. If you phlooch out the butt hole, and rectal cavity, you can fist your male friends, and your female friends, and every one, once they have cleaned out their poop hole, and made it free from rotting debris, will enjoy mutual, and reciprocal, fisting.

Fisting in this way, for sexaling, is alright. Fisting in the other way, for beating people up, is not nice, and you are given poor marks for your actions of nautyness, meaness, and cruelty towards others.

Over the long course of time, you all have been naughty at one time or another. I have many ways to fix you, and to retrain you, and to rehabilitate you, but you always go bad, and sour, again, as that is your main drive, or driving internal force in your lives.

The Importance Of Kindlyness And Teamwork

Why have all of my guppie kids all gone south, or in other words, gone down the road towards unkindlyness? Because, as I've explained, you forgot what the Love Of GOD is. My religion will help people to understand what the Love Of GOD is, and that will help keep them on the correct path of kindly actions towards others, and it will help them to understand and remember that teamwork to help my working, unionized kids to keep our universe healthy, strong, durile, standing up, stable, a safe and happy place to live, and a wonderful place to live, is very important.

Anyway, doing things that support my kids working efforts, will be rewarded, and doing things that detract from the harmony and syncopation of the metered pace of my kids who are working, and that slows them down, and that causes dischordance, will not be favorably rewarded, and you'll become a female schmuck, or a male schmuck over the length of time, as you live on in my universe. A schmuck is an unlikeable person.

Sexaling is the most important thing there is for us to do, other than feeding ourselves correctly to keep us healthy, and excercising, and leading a balanced, well regulated life, listening to your mama and to your papa.

My religion is based on sexaling, as sexaling is the most holy and pure activity we can participate in, or do by ourselves.

All the bullshit propaganda of the Lesbianists, that Jesus said this, and that Buddha said this, and that God will save you if you do this, and so forth, is pure balooney, bullshit, and made up nonsense.

I will not do any thing for any body, unless you help me and my children to make this universe, a more kindly, and a more wonderful and prosperous universe for all of us. If you do, I will have my kids, bless you with angle dusts as they daub them on your forehead, and then pour barrels of angel dusts over you, as they dump barrels full over your head and body, for your extra good work, sexaling, in syncopation, with my kids working rythyms, and in rythym with their syncopations, flux, and their phenomenal elegance.

Phenomenal Elegance

What is phenomenal elegance? It is their keeping harmony with each other as they work and keep every thing in order, in my universe for me, GOD.

You can not escape from this reality of your good actions and your bad actions being recorded, as my kids keep records on every one, and we make certain every one is rewarded for their good actions, and we make certain that every one recieves as close to what they deserve, to help balance things out, in accordance with their markups, for their bad actions. If they are bad, they will not meet nice people, and they will meet naughty people, and not so nice things may begin to happen between them. If they are good, and if they try to help my kids, as I've explained about, they will get rewarded, and they will slowly begin to break away from keeping company with bad people, and they will gradually ascend to higher rankings or status, and then they will begin to lead a better life, and they will begin to escape from meeting with bad people, and the good kids' lives will become blessed by my kids, as my kids begin to sprinkle angel dusts on the good kids, and daub the heads of the good kids with purifying energies, and then dump purifying energies all over the bodies of the good kids who listen to their mama's and papa's, and sexal with them, and as they sexal with their mama's and papa's, and sisters and brothers, relatives, neighbors, and others, the good kids help my kids keep this universe running smoothly, in harmony, in flux, perfectly meshed, and in perfect syncopation.

Mama's, papa's, sisters, brothers, relatives, neighbors, and others, all get their heads blessed with angel dusts, purifying energies, for their good actions along with the good kids, you, I hope, of course, too.

Plurlbalescent / Plurablescent Nature Of Negative Punishments And Positive Rewards

This is very important for every body to understand. I have my working, unionized kids reward the good people, and I have my working, unionized kids keep records on every action of every one of you, and I have my kids make sure the bad kids, meet with what they deserve, or some thing close to it, which may not be too nice, most of the time, and I have my kids make sure that the good kids, all meet with what they deserve, or something close to it, and that is usually always something nice. It may sometimes not be something conspicuously nice, but it is nice, usually, or positive in nature, always. The bad kids will get rewarded by something that is negative in nature, always, usually, or plurlbalescent. What does plurlbalescent mean? It means, it might not be noticably negative, but it is still negative, in nature, in essence. This is a topic we can discuss, another time, or you can ask my kids for more information on it, when you go in and visit them, with your mama's and papa's, sisters and brothers, relatives, school teachers, principal, costodians, janitors, school workers, and others.

We have had too much chaos of late, and for quite some time, and it is now time to slow it, and bring it to a halt. We are going to produce positive harmonic concordances that will assist my kids as they work, and that will help them to stay working in harmony with each other, with your fucking, sucking, eroteming, orgasming, your shooting out of purifying energies as you orgasm, and erotem, and with the increase of the oooohs, and aaaahs, you help to produce, with your practice of my religion.

We have to bring an end to the moronic violence of the Lesbianists. If that requires a lot of my children, making lots of babies, and lots of energies, and percussive forces, when you set off a fracturable rock bomb, then that is what it will take, as you blow Washington DC and the Baltimore metro area off its ocean ledge, and into the Atlantic, with that fracturable rock bomb, if it is big enough.

Yes, there will be lots of painful, ouches, and screams, and so forth, but it is trite, compared to the violence these idiots have been perpetrating, over the long span of time that they have been in my universe.

We have been here for a very long time. It is nearly impossible to figure out how long, other than with mathmatical computations. Our brains will burn out, if we try to figure it out in our heads.

It does not matter how long we have been here. It does matter what we do while we are here. You are not going any where else, and you are all staying in my universe, so you will all drop your pants, and your dresses, remove your shoes, socks, clothes, underwares, panty hosees, and panties, disrobe, and begin helping others to make lots of ooohs, and aaaahs, and lots of eroteming and orgasming energies. That will be the begining of your getting into line with the rest of us, here in my universe, my kids who work for me.

As you eroto with each other, you'll get graded on your performance, and you'll get paid by my kids, once you join our country, as I've explained about, before.

Timed Persuasive Mosture

What is a timed persuasive mosture? It is just keeping every body in synch with each other, persuasively and accurately moving along, orderly, in an ordered fashion or manner, and with every body in rythm and syncopated with each other.

Mosture is a type of motus, or motion or fluidity of movement. The timed fluidity or fluidness of my kids working along in synch with each other, is critical to having every thing in my universe, standing up and sturdy, with every thing holding together, as it should be.

Otherwise, if my kids and their work get out of synch, things can come crashing down, and things can come falling apart, and we do not want that.

This is a big universe, and we have a lot of people in it, my kids, and you wouldn't believe how many kids I have. Anyway, they all have to stay in syncopated, fluid motion, with their paces of life perfectly meshing with each other's paces of life, to accomplish their jobs and tasks, in an orderly, and in a fluid movement, harmoniously, and without delays.

The persuasiveness is accomplished with the help of your sexaling, and by your keeping pace, and synching your sexaling activities, and the movements involved in your sexaling activities, and by your spraying out your energies, as you erotem, orgasm, and phlumett.

The persuasiveness is also accomplished by your keeping pace in unison with others while you are praying the syncopated phrase, Nam Myeo Ho Ren Ge Kyeo.

Every thing is timed, and so as you activiate, or carry out these activities of sexaling, eroteming, orgasming, phlumetting, as well as the movements involved in sexaling, and as you pray, your synching of your movements and sounds in time and in pace with the syncopated and metered metronome click, click, click, at the timed pace of one thirty seventh and one fifth, on the metronome, approximately, helps to persuasively move, or persuasively drive and push, every body about, and along, as they do their work for me, in their many syncopated paces of life, or life spins.

I have many children working at different life spins, as I've mentioned before, and each group of them has a different pace of life, or time spin. Your activiating, as explained, helps drive them along, each at their own pace of life, or time spin, perfectly meshed with every other child of mine, also in his or her, and at his or her own particular time rate of speed, time spin, life spin, or, pace of life.

Every one and every thing must move along in perfect flux, or perfectly meshed with every body, and with every thing that is going on in my universe.

You are rewarded for your helping to move my kids along, in perfect flux perfectly meshing with every one and with every thing that is going on in my universe, with your efforts at sexaling, and with your praying, as explained, earlier.

In our new society, which we will create, you will score earning points, and every thing you do, as you sexal, and so forth, and as you pray, is scored, and a record of your capabilities, or excellence, or lack of excellence, is kept. You are paid according to your work performance, as you sexal, activiate, pray, erotem, orgasm, and phlumett. Also, you are graded on how well you get along with others, and on how well you try to harmonize and then sexalate with others. You score earning points, accordingly, and you get paid, according to how well you perform.

Keeping Every Thing And Everybody In Harmony And In Synch

Explaining how this works, how praying, fucking, sucking, dicking and hugging, etc., helps keep every thing in synch and in harmony and how your efforts are rewarded, is a tiny bit more complicated than my simple explanation, but that is it in a peanut shell.

Now. For those Lesbianists hiding among you who do not wish to surrender, you Lesbianists will find we are not going to be acting kindly towards you.

All of you Lesbianists, where ever you are in Washington DC, or hiding underground, or in Paris, or in Rome, Peking, and so forth, you will be dealt with harshly, as we need to put a stop to your activities, and a "maybe" is not acceptable in this case.

We are not going to allow you to continue your chaotic, nonsensical, violent activities one moment longer, and we will blow you up flying high up into the sky, and off the ocean ledge down below you, in Washington DC, as we sink your Washington DC area into the ocean, along with all of Northern Virginia, and the ocean coastal area of Maryland and Baltimore, along with large parts of the states of Virginia and Maryland, out to West Virginia, as that area settles down into and below the waves of the Atlantic Ocean, after we bomb it with one or more of my fracturable rocks weapons for mass removal of Lesbianists from the face of the earth and from their hiding places under the surface of the earth.

The Lesbianists in the Washington metro area and hiding under it, had all better surrender to my kids, or they will all get their pants and clothes blown off and shredded from their bodies, if they do not, as they are given a free ride out and up into the upper atmospheres of our planet, and then, beyond. All other Lesbianists had better surrender, too, or they risk getting a free ride out, as well.

Deep Sea Ocean Trench Off The East Coast Of The United States

There is a trench that extends south wards from Washington DC, some times reaching 25 miles out in some places, and in other places, it reaches out to eight hundred miles from the shore. In the north, it reaches out in some places, 85 miles out to one hundred and twenty five miles out, to three hundred and fifty five miles out, to eight hundred miles out in some places, in the south.

It is fifteen miles deep when you go out forty five miles off the coast from Washington DC and from the Chesapeak Bay. The ledge bottom is found about three and one half miles down, and the mouth of the opening continues for ten miles, approximately, downwardsly, on the western side of the trench.

The It has a gaping mouth, and it opens up and lets ocean water inland, under the continent, eighty five miles down below Washinton DC, three to six to eight miles wide, from top to bottom, from the underside of the top of the mouth, the bottom of the ledge, to the bottom of the mouth.

>From under the nation's capital, to the south, it travels to over eight hundred and eighty five miles. To the north, it travels three hundred and thirty five miles, to six hundred and fifty miles, to about nine hundred and fifty nine miles, inland under the continent, depending on where you wish to locate the edge of it under the continent, northwardsly.

It travels to the west, inland, three hundred and thirty five miles, to just over eight hundred miles, depending on where you find the edge of it. It travels inland further westardsly, the further you travel north. It is slightly over one thousand and eight hundred miles from north to south, in total, as you'll discover, once you explode enough, and after you explode large enough fracturable rock bombs, over Northern Virginia, Maryland, Washington DC, Baltimore, covering the metro area vicinity.

The U.S. Navy, and the U.S. Coastguard know about the trench, or parts of it. They are not allowed to discuss it with anyone. No one is allowed out there, to research it as it is off limits to just about every one. Some navy personel of high rank, and coast guard personel of high rank, are allowed out to take soundings, every now and then, with their Lesbianists' staff members, and Lesbianists' personel in the Navy, and in the Coast Guard.

The Soviets, at least, Boris Yeltzin, Vladmir Putin, Mikhael Gorbachev, and Zelda Gorbachev, know about it, and so do all the other Lesbianists. They can confirm it, if they wish to play ball with me, and if they wish to save their asses, after they decide to surrender to my children.

The Shelfs Systems And Trenches Systems

The shelf estends to under Lexington Kentucky, at about ten miles below it. It is five miles up under Chatanooga Kentucky. It is five miles below Washington D.C., in some areas. It is three miles below Baltimore Maryland, in some parts of the city. It is eight miles up below Pittsburg, Pennsylvania. It is fifty five miles up below, or under, West Chesterfield, New York. It comes up to eighteen to thirty miles below McLean Virgina. It is eighty eight miles below Norfolk, and the mouth, downwardsly, is five to ten to fifteen miles wide open, in a downwardsly direction.

It some areas, it can be found below Ohio, and under Indiana. It crosses under the West of Kentucky, and into the south of Illinoise, five to ten, to thirty miles. It is a variegated trench system.

It extends to Tennissee, parts of North Carolina, Mississippi, Alabama, Georgia, South Carolina, and to under parts of Northern and Western Florida, and is open out and into the Gulf of Mexico.

The whole area of Eastern U.S.A., is sitting on an open shelf, trench system, and there is water passing below it, and out into the gulf, in several areas, over to eighty five miles west of Corpus Cristi, Glen Garden, population eight hundred and fifty, which south of Galveston, and north of Corpus Cristi, between the two cities. There is a mouth eigty five miles south of Tampa Bay, Florida, in the Gulf of Mexico. There are several openings or mouths to the underground fault line system, and deep sea ocean trench system, and shelfs systems, and water is passing from the Atlantic to the Gulf of Mexico.

There is also a trench system in the north, under Niagra, that extends southwards, several hundred miles, and it has many branches to it, and it extends into this system of shelfs, trenches, and under continental water flows.

Side Bender Currents

What is a side bender? It is a current comeing out of the mouth of an opening, from under a continental shelf system, that allows waters to flow out. As the water flows out of the mouth, the outlet current of water, it flows very forcefully in an outwardsly direction, and it pushes the water out with great force, generally. If a submarine is traveling in the vicinity of a side bender, the submarine may get hit broadside, and that will often turn the submarine topsy turvy, and around facing the opposite direction it was traveling in, or another direction, not the one it was traveling in, most often. The crew will get swung about inside the submarine, and they will fly through the cabin, and pounce off the floor to the ceiling, and hit the ceiling, and then hit the sides of the corridor they were walking along in, and finally end up on the floor when the submarine rights itself, with its balast, and you'll get many sprained or stretched ligaments, and broken bones, arms, wrists, fingers, legs, knees, ankles, feet, toes, necks, backs, hips, spinal injuries, and other injuries.

It can leave a crew of a submarine nearly one hundred percent, injured and in a ship's hospital, or a Navy or military hospital for recovery. Side benders are often called upwellings of currents by the Navy, but that is not generally the case as they are not upwellings, but they are side pushing currents, that come flowing out from under continental water flow openings, horizontally.

There may be some upwards lift involved, if there is a reason, such as a mouth is angled at a slight sloping angle, as it releases the flowing waters out from its tube like cavity or hole.

Crew members and military passengers of Naval submarine vessels are generally told not to talk or discuss any thing about side benders with non Navy persons, and with persons unrelated to their ship or unrelated to their ships voyage, as the governments of the world, do not want any one to find out about side benders, and they do not want people, geologists, marine geologists, undersea deep sea ocean studies researchers, or others, to research and investigate side benders. It's a big secret, these side benders, and that's what the marines, and the navy personel are sworn to keep, or face a fireing squad, on insubordination, or on some trumped up charge of spreading naval secrets, acting as a foreign spy and receiving money, or something like that.

Naval personel will generally obey orders, and not discuss side benders, or other 'secret' information, with any one, as they risk losing their job, and they might face a fireing squad, or a hanging patrol, sometimes called a marching platoon, or a hanging platoon, a group of soldiers commissioned to carry out orders to hang some one who is in the military.

If you pay a naval officer or enlisted person, or other person with Naval submarine duty, such as some marines, and others, enough money, they may be willing to share some information on side benders, and information about what they know about side benders. Some persons who have had Naval submarine duty, may genuinely not know any thing, such as crew members who are never assigned to submarines that travel near side benders, on a regular basis.

Some times family members of enlisted persons and of Naval officers, are allowed to travel on submarines, for fun and excitement, as a special reward for their papa's or mama's duty on a submarine. Some of these family members have also had some experience with side benders, such as those who have traveled on submarines along the Marianna's trench, or other trenches, not listed, neccessarily on global maps, but none the less, which are there, and that are near shelfs systems under sunken continental shelfs, or under sunken continents, but that eject streams of water, nonetheless.

Our maps and globes of the world are incorrect, the ones we buy through bookstores, or from map publishers, as nothing that would indicate sunken continents, large sunken islands, and related trenches, or other related features, are not going to be indicated on them.

The Lesbianists do not want you to find out information that could provoke you into researching, under water features, that they do not want you to know about, as your fictious understanding they have taught you, of the surface of this planet, and its history, is bogus, and any thing that would conflict with that, is certainly not going to be indicated on a map they would publish, and the map will be wiped clean of all traces of any thing that conflicts with the 'global' history of the earth, as the Lesbianists teach it, in geology courses for high school students, and below, and above.

The global geological history they teach must coincide with their fictious propaganda about Adam and Eve, and "Lucy" the ape woman, the supposed mother of all people living on this planet, and about this earth being only 9 billion years old, or thereabouts, which is a bold faced lie, and other such bullshit notions they have fed every one to swallow, and have forced them to accept, and that they force people to use as primal notions to base scientific research on.

The geology of our planet is much more complex than the Lesbianists are letting on to, and there is much to learn about planetary geology, as these planets have been around a very long time, and many things have happened, over and over again to them, and many things have happened to our 'solar systems', and star formations, and star systems, that people need to know more about, to get a realisitic understanding of our universe, its history, and its many complexities.

In time, we will learn much more about all these things, and you can attend courses that my children have set up for every one, to teach people about our universe. You need a day pass to visit, as I've explained about, before, and then you should swear in, and become a citizen of our country. We have yet to declare this planet ours, but in time, we will, once we have finished and put an end to the problems associated with the Lesbianists, all of their shenanigans, and their malarkying around. One day we will declare this planet ours, and my kids will take charge of everything, and they will appoint people to posts of duty, and to positions of responsibilities.

Making A Large Swimming Pool

People should begin moving off and out of the area, around the Nation's capital, Virginia, Maryland, Pennsylvania, West Virginia, and North Carolina. We'll have a big swimming pool there, with lots of, mostly uninhabited, tiny islets, or hill tops and mountain tops, after all of the current residents die, and pass on and transel over to my Epcot Center, after one of our compatriots, or groups of them, detonate enough of my fracturable rock bombs. People will have to watch out for hungry sharks, after they swim inland, above the sunken landscape, looking for corpses to eat, and to scavenge, as lots of Lesbianists' corpses will come floating up from underground hangouts and cities of the Lesbianists, under those parts of the U.S., and from under the Gulf of Mexico, from under the sea floors of the Atlantic, from under the Niagra trench systems, and from under other trench systems in the Eastern U.S. This is not a joke, by the way.

Stagnasis

Salts kiddies in stagnasis is when they are in the salts kiddies are in their salts crystals cages, in a hibernative state, in perfect equilibrium, to keep them alive and well, for as long as possible.

Black Powder 'String' Fuses

Take a spool of sewing thread, and use Elmer's glue to coat the string, and run the string with a thin layer of Elmer's glue coated on it, through a bucket of black powder gun powder, which you can order in the mail, over the internet, or pick up at an antique musket or old style 'cap and ball' musket rifles and pistols retail stores.

Elmer's glue and gunpowder will combine to form a minor plastiques explosive, after the salts kiddies mix it up, eat each other up, pee and poop out lots of stuff that is highly explosive, as they get busy making babies, except when gunpowder is used in large quantities with Elmer's glue, to form a major plastiques explosive. Benzine will help this along, with diesel fuels, as well, and with chlorine, we can see some major plastiques explosives in the making, as mama's and papa's begin making lots of children, as they begin mixing it up, and as they all begin pooping and peeing out body fluids that is food for others, that will contribute to the powerfulness and explosiveness of the mixture.

After you make your string fuse, and let it dry out for a couple of weeks, then coat a rag or muslim cloth in oil, or grease, or a mixture of turpentine, gasoline, diesel fuel, and grease, with benzine, and make a paste, and use that paste to coat a thin cloth, such as a muslim cloth, and then let that set and dry for a few days, and then wrap a few sets of 'string fuses' together in a bundle, and place them inside the cloth. It will become a very powerful explosive, in itself, the more gun powder you use with it.

Test it, to see how fast it burns once it is wrapped in a cloth coated with a mixture of grease and fuels.

The thicker the grease, the slower it will burn. The thinner the grease mixture, by adding more turpentine, or benzine, or paint thinner, the more rapidly the fuse will burn.

You will have a very powerful explosives cocktail, with this mixture, so be careful.

You have to be very careful with what you combine, as you'll be bringing together very explosive elements, when you mix these fuels and liquids together with gun powder on a string.

A few string fuses, wrapped in a well soaked cloth, with a mixture of these liquids and the axel grease, will make a type of plastique explosive, that can be used as a shape charge, or a mouldable, or shapeable, explosive, that is good for blowing doors off hinges, such as at pharmacies, or banks, and for blowing locks on private homes' fences to pieces, such as can be found at the White House, at 1600 Pennsylvania Ave. Washington, D.C., at the entrances and exits gates of the White House where guards are on constant duty patroling the area for security purposes. An initial explosive, a detonated fracturable rocks bomb, small in size, may cause a concusive force to cause the guards to black out, and pass out, and then sleep for a while. Be very careful with the size of the bomb, as we do not want to level the homes and buildings surrounding the White House, or across from it in Layfayette Park. After you put them to sleep, with your initial blast, you can test the shape charge on the nearby fences, at the White House.

Black Powder 'Cap And Ball' Pistols

Most black powder cap and ball pistols and rifles, muskets, sellers and retail outlets can be found on the internet, and some gun shops carry black powder, as well as the detonating fireing caps, for black powder rifles, and pistols.

Many of them do, and you can purchase the black powder and copper detonating, ignition caps, for useing in your cap and ball pistol, or musket, or other, more modern, hunting rifle, that allows you to use black powder, and detonating copper caps that slip on a small round fireing ignition nipple that is made out of steel, and has a hole in it, to allow the percussive explosives in the firing copper igniting cap to ignite on impact with the hammer on the weapon, when it slams down on it, and the flames from the igniting explosives mixture, glued to the inside of the firing copper cap, then ignite the black powder, that was rammed down the barrel, or packed and tamped down in a cylinder of a percusive black powder cap and ball pistol.

The caps are fairly useless, unless you wish to add them to a fuel oils, chlorine formula, and let them sit in the fuel oils mixture, and that will help develop plastique, as well.

Higher Temperatures Develop More Useful Energies For Making Babies

The copper in the cap will also allow for a higher temperature in burning, when the fuels mixture ferments after a few weeks. Magnesium in the cap as well, will also help to raise the burning temperature of the fuels mixture, and with some black powder added, and with some chlorine added, your plastiques recipe will become even more useful. These higher temperatures will help to produce energies that will be conducive to baby making among the fracturable, or rupturable, and percussive, rocks radiological salts kiddies.

You can then add a handful or more of powderized amethysts, or turquoise, that you can purchase in bulk, on Ebay, for some small bulk quantities, and also emeralds are useful, as they all have fracturable rocks kiddies embedded in them, and fast asleep, in stagnasis.

Zircon Diamonds, And Other "Radio Active" Gem Stones, Etc.

Zirconium is a mineral that they use for the fake diamonds they sell with the trade name, Zircon diamonds, or Zirconium diamonds. You can powderize them, and use them for a good amount of fracturable rocks explosives, large and fast family making, salts kiddies, for a 'nuclear' party, and a send off to the eastern coast of the United States, before it is blown off the coastal ledge it sits upon, and then sinks below the ocean waves, if you strike it hard enough, with one or more of my fracturable rocks babies making, "nuclear" salts kiddies bombs.

You'll need a few handfuls of Zicon diamonds, powderized, to make a nice fracturable rocks, babies making bomb.

You can mix turquoise, emeralds that are mined and sold in bulk quantities on Ebay, amethyst, and the other rocks that I've mentioned, along with powderized 'sand' from the beach. Argentina, and Venezuela, Baha, and Southern California are good places to collect useful sands, full of fracturable rocks, salts kiddies, that a geiger counter will detect, if it is a sensitive enough geiger counter.

Geiger Counters And Their Usefulness

They are not too hard to build, but you will have to look in your Popular Mechanics magazines, for the details on how to build a "geiger counter". Some mining stores, and mining outfitters stores, may be a useful places to order or purchase a geiger counter, if you are on a family budget. You might find one on the cheap, on Ebay, that is still useable.

There are some kits available, if you look hard enough, to use to build your own geiger counter. A mining outfitters store, in South America, or in Central America, or in Utah, or in Nevada, may be able to help you locate a kit, to put together, if you go in there, and pretend you want to go out and look for interesting rocks, and you need some information on where to look for interesting rocks, so go to a mining outfitters store, or to a rock hounding club, or rock hounding retail store, for looking at beautiful stones that rock collectors, or rock hounds, have found, and made available at the store. Usually the store owner will have his or her suppliers, on name cards, and you can get in touch with them to get more information on where to look for interesting rocks to test with your geiger counter, since you are facinated by radioactive elements in rocks, and you are interested in finding some, for a collection you wish to start.

You might want to pick up some primer books, on minerals and rocks, gems, and gemstones, from Amazon online, or from a local book store, such as Barnes and Nobel book store, which has a few useful books on rocks, mineral rocks, gems, and gemstones, that you can find when you are out rock hounding.

Desert Outfitters in Las Vegas, a miner's outfitters store, that also provides useful tools to rock collectors, such as rock hammers, and hand held pick hammers, for chipping away at rocks, to see what is under the surface of the rock, or under the peel of it, the outer layer, as well as terrain maps, and outfitting supplies, tents, and sleeping bags, and so forth, has these types of books, and lots of maps, and maybe they can help you find useful kits to purchase, to build yourself a geiger counter. They also sell geiger counters for about three hundred and fifty dollars or so.

Sears used to sell Geiger Counters, and they still can order them for you, I think, through their catalogs. On Ebay, you can find many reasonably priced Geiger Counters. How well the geiger counters work, the ones people sell on Ebay, I can't say, so you'll have to talk with sellers, and see what they say about the geiger counters they are selling to others on Ebay, or read about them in old copies of popular mechanics, and in trade publications for the mining industry.

Novice And Amateur 'Rock Hounding' Rock Collectors Clubs

On Sahara, east of Las Vegas Boulevard, there is a rock shop, which is about two and one half, or so, blocks down from the intersection, on the north side of the street, and they have information, as well as lots of primer books, on rocks, and on geiger counters, and where you can find them. They are well connected to the local rock and gem, minerals and gems finding, or rock hounding clubs. You can meet their members, and go out with them, on excursions, as they know where to find just about anything.

There are similar clubs in every major city, and in lots of smaller cities. Mining towns of course have lots of mining outfitters stores, and they probably have geiger counters for sale, so you can use it to find some very nice, fracturable rocks, along coastlines, or in ancient dry lakes and seas, sediments filled, rock hounding areas.

Decontaminating Your Self With Ocean Salts

Acidic ocean salts in ocean water will help eat up the radiological kiddies that find their way into your bodies, and that make you feel ill. It might take several weeks for initial recovery, with you taking large amounts, several teaspoons or more, as much as you can handle, in your diet, every day, for up to three to eight years, to thirteen years, for severe contamination, and for full recovery.

Other things, such as nutmeg, and oregano, in a salty tea brew, will also help you, and marijuana in the salty tea brew, will further help you. Berries can also be of great benefit for recovery from radiological salts kiddies contamination.

My kids have a recovery kit, that will help you recover from an overdose of radiological salts kiddies, after a major birthing event, and that kit will help you fully recover. You need to join our country, and swear in, and become a citizen, to be given one of these kits to help you for your recovery. They can provide you with information, of various kinds, once you swear in. They have you swear in as full time citizens, now, except in special cases.

Ancient Dry Lakes

There are many ancient dry lakes, up north, in the colder areas, of Manitoba, and around the edges of wet lakes, you'll find areas that dried out, a long time ago, and you'll find interesting things in the sediments deposits under the surface soils of the earth, that have covered most areas, and that come in to our atmosphere, and then deposit themselves onto the surface of our planet, as they are blown in on the solar winds. A few feet of top soil may cover the dry lake areas, around the edges of these lakes, and the soils depths may reach to twelve feet, to fifty feet, to sixty or to eighty of more feet, in some areas.

Once you hit the sediments layers, around the edges of these lakes, outwards to eight to fifteen miles, to thirty miles or further, out to up to eight hundred miles, as in the case of Lake Erie, and that lakes region, the Great Lakes, that all use to be one large salt water sea, but is now, a fresh water set of lakes, you can begin looking for the radiological bullets of the previous catastrophes in my universe, that shot out radiological salts kiddies, into the sediments rocks of mineral stones, and sand. Gravels might contain some "radioactive" fracturable rocks, and you can tell which are the useful ones, with a geiger counter.

There are still salt water lakes up in Manitoba, Lake Huron, and some others, that used to be part of Lake Erie, and all part of the Great Lakes, when they were a large, salt water sea, but which are now, no longer part of that lake region system of lakes, as fresh water now fills up the Great Lakes from under ground water systems of fresh water flows.

Hydrolific Pressures From Water Falls

Hydrolific pressures, from water falls, primarily, help to erode and carve out and build the under continent open areas of water flows, that flow under the continents, and that dump their waters by traveling underground, in culvers, and channels, and in trenches systems, and then flowing out and into the oceans, resulting in side benders currents and flows.

Underground Lakes

Hydraulisis is one type of water pressures. Hydrolific pressures are those pressures created by water beating down, steadily, as water falls from higher to lower places, creating underground holes, and large open underground cavities, and water holding vessels, aquafirs, and underground lakes in the underground rock layers. Lots of cities sit on top of such underground lakes, on the crust of the surface of the earth, or very near to them. The lakes are often ovular and rounded in shape, from top to bottom.

Many former water falls, are now low lying, and flat, and there is no water fall on the river, except for minor, cascades, such as found in the Grand Canyon Rift Valley down the Colorado River, and out into the Baha area.

Baha Mexico

Baha is a good place to go looking for interesting, "radio active", or radiological rocks, fracturable rocks with radiological salts kiddies sleeping soundly, embedded into other rocks, after colliding with them, in a hail of radiological rocks bullets, after a planet or a galaxy, or a large nebular star system, or a cluster of them, were detonated, by some fool with a huge and powerful, home made bomb. This happened, often, in the past, and still, today, it happens, now and then.

Bits and pieces of the radiological rocks will come flying in, and then embed themselves into other rocks, as I've explained about, before. We've had so many catastrophes in my universe, that our ancient rocks, are peppered with radiological rocks that are embedded in them.

Off the coast of Baha, is a good place to go diving, looking for rocks that were washed off shore, as waters flowed down the Colorado River, trinities of aeons ago, when this planet was still a young planet, maybe about one fifth the way through its infancy, after reforming, again, after its last major impact that shattered it to pieces, for the umpteenth kazillionth, plus more, time. This shattering and reforming, has been going on too long to count, and obviously, there is a large amount of mixturing going on, with debris from other star systems, galaxies, nebulas, and so forth, floating in, and becomeing part of our planets, all around and about, on solar winds.

You'll find rocks on the inside of the Baha coast, and on the outside, as well, and along the Baha coasts. You might have to dig down thirty of fifty feet, to a few hundred feet to find them, maybe eight hundred feet, or sixteen hundred feet, or further, but you'll eventually find something useful with lots of radological bullets embedded in the rocks.

Finding Good Rocks

You can find interesting rocks, also on high hilltops, such as in the Andes, the Himilaya's, the Swiss Alps, high mountains in Austria, and in Germany, high hill tops and mountains in Iran, maybe in Afganistan, and the very high hill tops, that are generally old hills, in many countries. They will usually have, if they are very old hill tops, lots of rocks scattered about that are very old, and that have lots of fracturable 'radiological' salts kiddies, and other related kiddies in them, as well.

Sledgehammering Continents And Land Areas Where Lesbianists Live, Hiding Below

Here are a few places to place some other fracturable rocks bombs on, to make them fall in, and collapse down onto the layers of rocks, below, and then puncture the ceilings of the cavernous cities the Lesbianists have made, down below those lower rocks layers.

Topango in the South Pacific near the Marianas, the area midway between the Ryukyu Islands and Haha Jima, Chichi Jima, and Iwo Jima, where you will find a sunken continent, Wellington New Zealand, Peking, Falklands, Urals Mountains, Chile thirty miles north of Concepcion and eighty miles east of it, near the Argentina border, and the Kamchatka pennisula, which will split and collapse in the center of it, midway down the penninsula, if you hit it hard enough. Lesbianists will come floating up, if their bodies can fit between the tons of debris that will fall in on them, as you smash the land sites that sit on top of ocean shelfs, and on open lakes below the land, some miles down from the surface, in some cases, and further down, in other cases.

It may be hard or impossible to deliver a nice bomb below the ocean above or onto the top of the sunken continent below the ocean, between the Ryukyu Islands, or Okinawa, and the islands of Japan, called, Chichi Jima, Haha Jima, and Iwo Jima. If one can be delivered there, you'll crush the continent below the surface of the ocean, and that will cave in on the cities, there are more than one there, that are below the protected shelf layer of rocks, above the cities the Lesbianists have there, below the sunken continent, to live comfortably in. The other places aren't so hard to hit. It is just a matter of local interest, and urging of the people there, to take the correct action to help us to resolve this problem, of Lesbianists living below us, all around the globe, in their honey comb, bee hive like canival of cities.

A canival of cities, is a large collection of cities that is located in such a way as to make it easy to get from one place to another. They are conveneint for them to live in as they are well placed, and spread out evenly, using the full extent of the area, as efficiently as possible. The Lesbianists have a canival of cities under the lower rock shelf layers, that are above them, and that help to keep them protected, warm, dry for the most part, but not always, and that are conveniently located each one in a bee hive like, configuration, well placed, with a well designed, layout, with central cities, and with satelite cities. It is well designed and resembles in part, Melbourne Australia, which was laid out, planned and designed as a modern city. The Lesbianists of course, think Melbourne is puny compared to their accomplishments, and of course, with the technologies they had and have available to them, from time to time, they made good use of every inch of space they have available to them, under the lower hard rock, but leaky rock layers above them.

My kids have places and locations maps of all the best places to locate your home built fracturable rock bombs, and so please pick up the information from them, after you have sworn in, as citizens of our country. Also, please see my earlier notes on the sciences that support a correct understanding of radiological particals based fracturable rocks explosives and other helpful and useful explosives you'll need to set off the fracturable, also called, rupturable rocks bombs, i.e., the so called 'nuclear' detonations.

Topsoils

Did you know that nearly 99.9999+ percent of the earth's crust, or mantle, is formed from space debris that has floated in on the solar winds? It's true. Only about 0.000001 percent of the top soil is from local vegetation, globally speaking. The rest of the top soil comes in from above, blown in on the solar winds, as debris from other planets that have been destroyed, crushed, or blown to pieces by idiots with very large bombs, that demolished whole galaxies, or multiples of galaxies, in a few milliseconds, as the instant they blew up, they were so well made, or constructed, and so powerful, they instantly blew up the whole area of galaxies the planet was located amongst.

If for instance, you fill up one third of the large tourist attraction, the meteor crater in Arizona, with one of these fuels and rocks bombs, and ignite it, you'll disentegrate all of the Milky Way, and some what more than that, in one attempt, by my estimation, if the fracturable rocks bombs were made well enough with the fuels bombs, to burn at near or close to, solar temperatures, and if there were enough materials in the fracturable rocks, to get lots of mama's and papa's making lots of babies, relatives, and others. There are lots of different types of salts kiddies in fracturable rocks, and there are other types of kiddies, the radiological kiddies, which are sometimes, but maybe are not always, grouped with the fracturable rocks kiddies. There are many types of kiddies living in radiological rocks. When we send high heats waves energies, and other types of energies into the fracturable rocks, we can get many types of kiddies to begin making babies. If we get enough of the different types of kiddies to begin making babies, we will have one fine and dandy, explosive shower of baby making events. You can get further information on this topic from my kids, and if you tell your friends to check in with my kids, and to swear in, and become citizens of my and my kids' new country, along with other people who are swearing in, and becomeing citizens of our new country, my kids will make certain that every one is protected, and no one is caught outside, when the bombs go off, as my kids will tractor you and all the other citizens in, with my kids advanced teletransportation technologies, before any one can get hurt by the bomb or bombs blowing up, locally, or in their areas. That means, my worker unionized kids are very quick on getting people into the encapsulated living environment every one is living in, below the ground, that my kids built for every one to live in, until we get this problem straightened out, and until it is safely over with. People can continue to live in the encapsulated living environment, after it is over, as we are going to start a new economic and social system, and we are getting started, down below, where my kids are keeping the encapsulated living environment, well taken care of and well managed.

Later on, we'll worry about who comes out, and when, as we have plans for every one, to begin working inside the encapsulated living environment, which is very well designed, and bomb proof, of course. Once every one gets accustomed to the new way of living, in accordance with my religious principals, and in accordance with our new working and living programs, when people have saved up enough money, they can pool their money, and acquire a lease for land up above, on the surface, and then with more money, they can have nice places designed for them, and built for them, with your input and with your instructions. You will need to study designing homes, and layouts of homes, for large numbers of people, as you will be required to live in groups of people, as the old systems of living, one husband, one wife, and so forth, is out the window, and now we are going for group living, with many members to your groups. When you have got the maturity together to live in large groups, and to sexal with many people in large groups, then you will qualify, and then with lots of earned income, pooled together, you and the members in your group, can then move up and live on the surface, in your well designed home, which my kids will use their technologies to build for you.

This is how we are going to clean up our planet, and get started with a whole new system for living and working with each other, as GOD's children working and living together, begining here, and spreading, slowly, across and throughout my universe, as we bring others into our program, all across the universe, from end to end, from top to bottom, and from side to side, and in every nook and cranny of my universe.

All of my kids, you, who I am speaking to, will learn to live and work together, supporting my worker unionized kids, in our new global, united, and universal society, we will begin to build, on this planet, first, and then later, every where else.

I am the mother and father of all of you, and of all of my worker, unionized kids, as well, all of my kids who work for me, of course, and of all of my living beings, and of all of my animals. We are going to get this big family of ours, together, and we, the human beings, will begin to clean up our universe, by sexaling for a living, and with many other living by the points systems programs, and other projects. We will also begin to get our heads on straight with religious activitiating, in other words, by participating in religialing, in groups, or by oneself, in the encapsulated living environment, first.

As we move along, in time, we will develop our working strengths, and character, and some people will qualify, eventually, for working in my religious brigade, once they realize and understand who I am, i.e., GOD. Others, who do not give a darn about what I am doing, may do as they like, as long as they are citizens of our country, and as long as they enjoy what they are doing, and as long as they add to the welfare of all people in our society, universal wide, as we build it, larger and larger, for all of my children, no matter who they are. We will one day have all of my children, working for me, and if they do not like working for me, they still have to pay the fees for the resources they use, just as I have to, and that means, there is a charge for every thing we use, and it is detucted from our pay checks. Every one gets a pay check, if they work, and if they are disabled, they will get earnings to support them, for as long as they need to be supported, until they are regroverated, healthy, fit, mentally prepared, and willing and able to participate. Those who do not wish to participate, will work in jail cells, and prison cells, sexaling for a living, with animals, as I've mentioned before, and at carnival and entertainment centers and districts, we will eventually set up, first on and also inside of this planet, in 'encapsulated' carnival and entertainment parks, and later on and within, other planets.

We are going to have all my children working for me, eventually, as I've spoken about before, and in time, most people will wish to work, and when they are mentally prepared to work, they will enjoy their working, most likely, as sexaling for a living, is not a unwholesome way to earn a living, and it is a pure and holy way to earn a living, and a pure and holy way to spend our time, as part of our new working ethics environement. For more information on this, please see my worker, unionized kids, who handle the information hot lines, in our, and your, and their, as well, encapsulated, living environement, which they have built, maintain, and manage, for all of you, and which they are continuing to build and expand on, for the rest of you, who have not checked in with them, yet.

My worker, unionized kids have their own places to live, inside of the molecules that are used in building your living environment, and in your bodies, and in the molecules outside your living environement, as well. They live in all of the molecules, all over my universe, and they work in them, as well. They have their own universes, that they live in, which are all contained with in the molecules in my universe. It is a little more complicated than that, and so see them for more information on it, if you are interested in learning more.

Disintegrating The Milky Way

The Milky Way is made up of not one galaxy, but of several thousand, of different sizes. We don't have the technologies to see too clearly to distinguish the different galaxies that are within the borders of the Milky Way, nebular star system and nebular star cluster system, another way of saying that the Milky Way is a collection of many nebular star systems. Nebular star systems can be considered similar to galaxies, but maybe not always, as there are exceptions to every thing in most cases, any way.

We are of course part of the Milky Way, I suppose you could say that, but we are far out on the outer fringes of it, and we are not any where near the center of it, and we have our own galaxy we are a part of, and it is not part of the Milky Way, so technically, we are not part of the Milky Way, although we might like to think we are, since it is an expansive set of star systems, and star clusters, nebular systems, and other types of solar bodies systems, and it covers over us, and beyond us, sort of over layering us.

Be that as it may, we do not want to blow up or disintegrate the Milky Way, as we are in a way, part of it, or at least, we are encovered by it. Encover means to be covered over by something and encased within it, or to be encircled or surrounded by it.

Retraction

Tom Selleck is not a Lesbianist but he was a Lesbianist, until the Lesbianists killed him, after expelling him from their group, and after torturing him with their many heinous torture methods.

Captain Off The Bridge.

John Francis Ayres
GOd
And Children

Lay Order Of People - Donations For The Sake Of My Ministry - Nollicking Foolish People - Nollicking And Nollygaging - Goof Ball Kids, Their Mischievousness, And Maliciousness - More Than Ninety Five (95) Percent Of The Homicides In The World, Some Times As High As Ninety Eight (98) Percent, Or Even Higher, Go Unreported, And Are Therefore, Not Investigated - Labrynthine Cities Below Us - The Valderizing Lesbianists - Who Do We Kill, First? - Hydrolific Pressures And The Labrynthine Cities Below Us - Local Area Prayerful Collection Site - Aerobic Taichi Practice - Campers, Camping, Sexaling And Purifying The Area, And Useing The Parcel Of Land That I Publicly Claimed For My Setting Up Of My Ministry - Straightening And Cleaning Up The Area - Donating Your Sperm, Vaginal Juices, Titty Juices, And All Your Sexaling Juices - Building A Latrine - Glue People Begun 'Cleaning' Agents - Removal Of Latrine Wastes And Disposal Of Latrine

Wastes - How To Disperse Your Juices - Clothing - Erotic Attachments - Leveling The Area - The Party Is Over In Las Vegas, And In The World - Who Is Staying And Who Is Leaving, Etc. - Rules For Hospitals And Clinics, Etc. - Erecting A Partition Blind On West Tropicana Ave. - Electricity, Lighting, Etc., To Be Supplied By Nevada Power Free Of Charge, Or Else - Meat Vendors And Hispanics From Central And South America - Erecting A Partition Along South Decature Blvd. - Drawings On Demolition, Construction, Etc. - When Will This All Begin? - My Spilling Of My Purifying Sexaling Juices, And My Spilling Of My 'Prayer Time' Purifying Juices - Spilling 'Prayer Time' Spittle Generated While Praying - Monkey Babies, Jimmy Carter, Oliver North, And The Lesbianists' Conspiratorial Bullshit Stories Of Adam And Eve, And "Jesus Saves" - Punishment For People Who Practice Voodoo Religions Is Dismendment, I.E., Death - Local Businesses Will Have No Problems At All With The Collection Site And Will Have No Problems At All With The Activities Of The Faithful At The Collection Site - What To Do If The Police Come? - Lesbianists Enjoy Eating People, Who Are Alive, As Well As Eating The Bodies Of Those Who Are Dead - Every Game Of Chance, Gambling Machine, Or Slot Machine Is Rigged, In Every Casino Around The World, With Only A Few Exceptions - The Lesbianists' Articles Of Participation - Every Lottery In The World Is Rigged - No Fair Play In Nevada, And No Fair Play In The World - Sniper Shooting, And Miscellaneous Information Updated: 12-02-07 Rev.a 12:05 PST

Lay Order Of People

I have no lay order of worshippers, who participate with me, in any thing, or in any way. Why? Because, that's like me, the captain of the ship, coming into a town of persons who I don't know, and then saying that I'm the authority over them. No one is going to listen to me, and no one should be expected to listen to me. I wouldn't attempt any such thing, and so as the captain of my ship, my religious order, I have no authority over lay persons.

I have nothing to do with lay persons, what so ever. I will never have any thing to do with lay persons, unless they realize that I am GOD, and that I am the mother and father of all human beings, and all animals, and all living beings.

No one is going to recognize me as GOD, for a long time, as no one has the karma to recognize and understand that I am GOD.

Lay persons are free to do as they like, and I have no regulations concerning them, in my religious order. My children may have many regulations, for non religious order people, but I don't have any thing to do with that.

Donations For The Sake Of My Ministry

The only thing is, that, as I said before, if a person recognizes and understands that I am GOD, and that I am the Mother and Father of all human beings, all animals, and all living beings, then they are free to donate cookies to me, or clothes, or wearables, socks, and scarfs, or coats, sweaters, or slacks, neckties, and so forth, cakes, or cupcakes, baked items, or financial contributions, or chairs, and furniture, beds, linens, tables, office furniture, phones, phone lines wiring, electrical wiring, plumbing items, housing items, for building up a house, paved drive ways, mason or rock walls, surrounding the property, or a set of dormitories, or a prayer sexaling room, or a prayer ceremonialing room, or a swimming pool, sauna, bath house, toilet facilities, bathing facilities, laundering facilities, a root cellar, a molds and funguses workshop, a brewery workshop, or any workshop for helping to educate others, the land to build these things on, or money, or whatever.

If they recognize and understand that I am GOD, that is perfectly alright, to donate any types of items, or any thing of value, that would assist my ministry to get up and get running.

As yet, no one has recognized me as GOD, and no one understands that I am GOD, and the mother and father of all human beings, all animals, and all living beings, so as yet, I have not heard from one person, not a letter, or a phone call, other than an occasional wise cracker, mischief maker, or a person or person who are worried, and then complain to me, or rather, to my answering machine, most often, as I don't pick up the phone, now, as I had one person calling who was a bad kid of mine, and he was just looking for trouble, and since that, I just ignore all complaints, or wise crackers, or mischief makers, and so on.

Nollicking Foolish People

Some people do not like me wearing my GOd cap, that is one of those specialty base ball caps, but with 'GOd' written across the front of it, and they might hate me, especially some South American or Central American Hispanic types, who have primitive and backwards religions and filled with local lore and ancient tales of demons, and goblins, and gooney bears, or ghostly ghouls, or other superstitious ideas and notions of things that go 'boo!' in the night, and try to scare or hurt people, as there are plenty of folklorish tales of such things, in primitive cultures, that thrive, even at the current time, nowadays, in large cities, even, and these types of people might want to kill me, and when they knock on my door, with their gun in their pocket, or in their hand, machete or knife behind their back, I just ignore them, and I don't even bother to get up from my work bench, i.e., my bed, to see who is knocking at the door, as I know already, they have nothing to do with my monastic order, and because they have nothing to do with my religious ministry, or with my setting up my religious ministry.

Just last night, some group of people droped by, and banged on my door, with the tip or barrel of a weapon, and it was rather hard sounding, and I just ignored them, and after a few minutes, or so, they went away, and they haven't come back, yet. I don't think they will, and even if they do, I don't think it will amount to any thing, as I may have occaisonal visitors or harrasment calls, now and then, but that's all they are, and I just won't allow my self to be bothered by them as they are unimportant, and my goof ball kids, are just too nutty to figure out that I am GOD, and that they are my kids. Nevertheless, these goof ball kids are here or there, and I get lots of compliments about my hat, and usually, if not always, the person giving me the compliment wishes to steal the hat from me, and then rob me, in any other way, he or she can, and then beat me up, if he or she can.

Well, I can't let these types of things get to me, and I just ignore them, as I walk by them, and I don't reply or return any statements to them, except a polite, 'thank you' if they gave me a compliment about my hat, but that's about all, and I might mutter something, like, and well, so that's just another one of my goof ball kids, or something to that effect.

Nollicking And Nollygaging

Nollicking means idiotic and foolish people who are wasting their time, for accomplishing nothing. It's like, nolly gaging, but nollygaging, is just wasting time, foolishly, and while you are nollygaging, you are looking for some way to make a profit, from your use of your time. Scanderously, you try to extort money from others, or force others to give you money, you do not have any right to. That's nollygaging, as I can recall, at the moment.

Goof Ball Kids, Their Mischievousness, And Maliciousness

Well, I have all kinds of kids, and many of them are malicious, if you give them a chance, so I just stay away from all of them, as I know most every one of my children, is malicious, from time to time, if given the chance, and I think that applies to all of them, regardless of their age, at some point in their life, they will commit crimes of one kind of another, against others, and not think much about it, except that, they just had to take care of that, as they wouldn't be happy, if they hadn't.

Okay, so every one of my kids, at one time or another, will do goofey or goof ball things, and not think much about it. That's the way it is.

There is nothing to be surprised about, as every one, and I don't care who they are, every one, does things they shouldn't do.

Me, personally, I get angry, and say nasty things, and make myself sound gruff, now and then, and maybe I shouldn't, but I just feel compelled to do that, when I have a righteous conviction that some one deserves my speaking up and telling them off.

Well, you feel sorry about it, afterwards, if you hurt some one's feelings, but then that's the way it goes, and no one is perfect, so it's just. Let's try to live and let live, and live together in peace, and cut out the naughtyness, and stop the mischiefness, if we at all possibly can, and apologise if the opportunity presents itself. That's always the best way to handle things.

Most people, after they kill someone, can't appologise, and young girls and boys, and older girls and boys, think nothing of killing people, or having some one killed, for them, and then of course, there is no way for any one to appologise to the dead person, since that person is in my Epcot Center.

Well, we can't do too much about that, can we, but we can try to be kinder, and not kill as much as we feel we must to be happy.

More Than Ninety Five (95) Percent Of The Homicides In The World, Some Times As High As Ninety Eight (98) Percent, Or Even Higher, Go Unreported, And Are Therefore, Not Investigated

It's too bad that we kill others, and torture others, but that's the way my goof ball kids live in my universe, and despite what people might wish to think, to the contrary, it happens every day, in every city, town, hamlet, county, district, or where ever. My goof ball kids are killing people, right and left, and there are just so many deaths, the police don't hear the ninety five (95) percent of them, or so, as they never learn about it.

The percentage of homicides the police do not hear about, is perhaps just a little higher, but in any case, no one should be surprised, as that is how my goof ball kids get along with one and each other, and they have been getting along with one and each other, that way, for a very long time, already, so it will not stop, any time soon, and that's just the way things are, for now.

The Lesbianists are responisible for just about eighty five percent of those homicides.

Labrynthine Cities Below Us

The Lesbianists living below us, in their cavernous, labryinthine cities, that are below the hard rock layers, well below the oceans, and other bodies of water, far below the continents, go around, and mess with every one, and they play with people, and they think they have the right to amuse themselves by useing the citizens of this planet, any old way they like.

They go around, and set up phoney wars, and they watch the citizens of each country, kill each other, on their commands. The Lesbianists enjoy playing these kinds of games, and they set up civilization after civilization, and they bring it along, and help to develop it, and when they get it to a high enough level, they feel a sense of accomplishment, and then they watch and amuse themselves as they destroy what they built up, and the people who are living, unawares of them.

The Lesbianists think it is funny, that the Lesbianists feed the lies about our universe, and the lies about science, to every one, and the Lesbianists think they have the right to bafoonerize every person who comes into our world, as a tummy baby, who is on his or her way in, and in fifty to eighty or so years, is on his or her way out.

The Valderizing Lesbianists

The Lesbianists do not teach real science, or real geography, or real history, or real mathmatics, or real chemistry, or real anything, and they fool every one with their bogus religions that they either made up or corrupted, and valderized. Valderized means, they vandalized it, and sprayed grafitti all over it.

Well, that's the way the Lesbiansts get their kicks, and they are just a bunch of grown up children, valderizing every thing they can, and disrupting every thing, and every bodies' lives, just for their own amusement, and cruelish fun and games, such as feeding former Lesbianists to my abominant kids, who are need to be fed, and who are smart, and devious, and who destroy humans, and eat them up, and spit them out, and treat them terribly, while the Lesbianists watch on, in amusement, as they see people like Bill Gates, or Steve Irwin, and others, eaten up and then tortured, as I've mentioned about before.

Valderize all they may, and be cruel all they may, we are all now finally finding out about their treacherous and horrid behavior, and now we are going to put a stop to it, permanently, and that means we will kill every one of them, and send them all to my Epcot Center, as I've explained about before.

Now we know we can cave in their cities, below the leaky hard rock layers, way down below, if we hit certain areas, hard enough, with a nice big hammer, such as one or more of my 'nuclear' bombs, the fracturable rocks kids bombs, with fuels oils, burning at extreme high temperatures, and with percussive shock forces, these, mixed together, will get my fracturable rocks kiddies, making lots of babies, and with a large enough fracturable rocks fuels chlorine, and metals that burn at high temperatures, nearing solar temperatures, we will see some very explosive 'family making' adventures, among my fracturable rocks kiddies, and their radiological relatives and friends.

We know where to hit some of their locations, to drop a few miles of more of continental shelf down onto the tops of their ceilings that will then fracture their ceilings, and cause massive damage, as oceans of water fill up their labrynthine and very well laid out cities, below us.

Who Do We Kill, First?

Mr. George Bush, Jr., Mrs. Barbara Bush, Jr., Mr. George Bush, Sr., Mrs. Barbara Bush, Sr., Mr. Ronald Reagan, Mrs. Nancy Reagan, and lots of their friends, and nearly the whole crew of politicians in Washington DC, are all Lesbianists, and I want you to kill every one of them, and send them to my Epcot Center, and I want you to place the fracturable rocks bombs, in the right locations, and then drop a thick layer of continental shelf, down onto their ceilings, their ceiling that are below the water that is between us and them, and that is below our continental shelfs that we live on.

We can hear the water down below, if we have the right types of listening devices, and if you find the right places to place your fracturable rocks bombs over, then it may be easier to drop your continental shelf, down through the water, below you, and down further onto their ceilings, the hard rock layers below the water, that is below your continent, swirling about.

Now I want you all to study this, and find the right places to drop your continental shelfs, down through the water layers below you, and onto their ceilings, so as to smash their ceilings. I've given you some hints, already, as to where you can place the fracturable rocks bombs, and my kids also have given some people more information on that, and so we have lots of people, who are interested in solving this problem of the Lesbianists toying with you, one life of yours, after the next life of yours. It is time we brought their mischief, and non sense, and cruelty to a halt, and it is time we put on the brakes, and slammed down on the brakes real hard, and at the same time, slam down on the ceilings of the Lesbianists labrynthine cavities, below you, their cities that they have laid out in perfect symetrical, geometric shapes, like perfectly shaped, honey combed behives, with central cities, placed symetrically around the globe, in a perfect geometric layout, and with spokes or corridors reaching out symetrically, to other central cities, and to satelite cities, that they have well planned out, and have well laid out, perfectly, below you.

Hydrolific Pressures And The Labrynthine Cities Below Us

Because of the hydrolific pressures, they can never keep the ceilings, perfectly dry, and they are always in trouble, trying to fix leaks, here, there, and every where.

Now it won't take too much to bring the whole place down on them, flooding them like rats in a cage, below the water line, as a boat slowly sinks with a rats' cage on a table, with rats in it, slowly into and below the ocean waters.

The ones above, such as George Bush, Jr. the current president of the United States of America, and his wife, and his supposed family and relatives, and all his close Lesbianists' friends, should now all be killed, point blank, with your fracturable rocks bombs. I hope that is perfectly clear, and I hope you all understand what the situation is, and that it is an intolerable situation, and we are not going to allow them to toy with us, any longer, and we are not going to let them amuse themselves, any longer, and we are putting an end to their games, now.

DO YOU UNDERSTAND ME? I HOPE SO! AS A 'NO SIR!' WOULD BE UNACCEPTABLE.

Now that we know where we stand, we have nothing further to argue about, and so let's get to our tasks, as soon as we are ready, and prepared. Okay? Good.

Local Area Prayerful Collection Site

A collection site is where people gather to pray, and to sexal and to purify each other. It is not a site where people ask for offerings, or where people as for any thing else, involving money. It is a sexaling park, and a prayerful sexaling park. That is the meaning of collection site. A collection site is where people collect together, to sexal and purify themselves, and while they are at it, they make sexaling efforts to help to purify others, by shattering and showering out megawatts and tons of radiating, purifying energies.

We have a local area park, at the corner of West Tropicana Ave. and South Decature Blud., a local BLM piece of land, that some people like to camp out in, that I go out to, to bless, and to purify with my religious ceremonies, now and then.

I claimed that area, and all other BLM lands that I could claim under Gurkian Law, and all other land on this planet, that I could also claim under Gurkian Law, such as other parks and forests managed by other government agencies, or private lands, supposedly owned by rich people, and lands around the world, that I have a right to claim, under Gurkian Law, and all that land, is now mine, under Gurkian Law, and I can use it in any way that I need to use it, regardless of what other people, think.

Aerobic Taichi Practice

I am busy, now and then, purifying that parcel of land, at the corner of West Tropicana Ave. and South Decature Blvd., with my religious ceremonies, that I conduct with my religious prayer hand signaling statements and with my use of my ability of arerobic Taichi, for religious ceremonies, as I seem to have recalled a lot of areobic Taichi, as well as some other forms of Taichi, that I knew, before, in previous lifetimes, but I am only interested in using it for practical purposes of religious hand prayer signaling.

I'm very clumsy when it comes to aerobic Taichi, but any way, I enjoy it, and it is good excercise for me, and the more I practice, the better I get, but it will be zillions of years, before I get any where near good at it. I practice the arerobic Taichi while I make my religious hand prayer signaling statements.

I don't teach Aerobic Taichi. I only use it for my prayer ceremonies, when I am on my feet, and not on my back, mostly, even though, I do use a short version form of it, while lying on my back, or, while I am on my side, I use a very short form of it. Anyway, it is fun to do Aerobic Taichi, and that makes my prayer ceremonies, for me, more fun. When other people learn to prayer signal, they will naturally pick it up, as well, as every one has studied to some extent, Aerobic Taichi, and other forms of the martial arts, and my kids will release the knowledge that is stored in your memory banks, as you need it, once you begin practicing, for women, as a priestess, or for men, as a priest.

It is not like the Taichi you see people doing in China, or Taiwan. It is Taichi, unless they are very good. It is specialized form of Taichi for use while performing hand prayer signaling. It is not used for fighting, but it is the basis for Taichi, and you can train in martial arts, while employed as either a priestess, or as a priest, and it will be useful to you to know, before hand, as it will make practicing your martial arts, that much more interesting.

I'm not hiring any one, now, or just yet, or any time, soon, as far as I know, as my kids do all the interviewing, and I have nothing to say, about who comes knocking at my door, to be interviewed.

Campers, Camping, Sexaling And Purifying The Area, And Useing The Parcel Of Land That I Publicly Claimed For My Setting Up Of My Ministry

Now, on that parcel of land, there may be campers, now and then, who want to camp there, because they want to find out more about my religion, and so they come out to Las Vegas, now and then, and they camp out there, on that parcel of land, at the corner of West Tropicana Ave. and South Decature Blvd.

Since that land is where I am going to set up my initial ministry, when the time for that comes, I am preparing it, with my religious purification ceremonies, and there doesn't seem to be any troubles, with any one telling me not to go up to my property, that parcel of land, and there is no one trying to tell me that I can not bless my property, that parcel of land.

Now, if other people wish to come to that parcel of land, and wish to sexal on it, and thereby purify that parcel of land, they are more than welcome to come to it, with their camper trailer, or caravan bus, and they can maneuver into the area, and set up a tent, and campsite, but there is no water, or any thing else, so you have to come prepared to rough it, if you wish to come in your camper van, or caravan bus, or in a camper trailer, or with a tent, or with other types of sleeping and living gear.

Straightening And Cleaning Up The Area

You can straigten up the area, and clean it up, and make it nice, for many people to pull into, to join together, and to sexal together, and with your purifying energies from your sexaling together, you are more than welcome to stay there, as long as you like, and as long as time permits, and as long as finances permit.

I have nothing there, except for my now and again, Aerobic Taichi practice and the energies that are imbued into the area, there, from my religious hand prayer signaling ceremonies. There are no structures of any kind, and I am sometimes there, busy purifying the area, with my religious ceremonies, so if you and your friends would wish to come to that area, and also help to purify it with your sexaling energies, than you are more than welcome to come and visit there.

Donating Your Sperm, Sexaling Spittle, Perspiration, Vaginal Juices, Titty Juices, And All Your Sexaling Juices

You men and boys may by all means, donate your sperm juices, sexaling spittle, and other sexaling juices, your perspiration you generate while you are sexaling, to the site, and you women and girls may by all means, donate your vaginal juices, your titty juices, your sexaling spittle, your perspiration you generate while you are sexaling, and all of your sexaling juices to the site, as they all will help to purify the property that I intend to set up my ministry on, as they all contain many, holy, pure, sacred, powerful cleansing energies, and GODLY energies in them, and they will help purify the land, and the environment for ages and aeons to come. All of your eroteming and orgasming energies will go shooting throughout your bodies, and they will find their way throughout your bodies, and out of your bodies and brains, and into the environment, and into your bodies' sacred and holy spillages, as I've discussed about before. Your bodies' spillages, as well as your perspiration, your pee, and your poop, not to mention all of your other juices that are produced as you sexal, erotem, orgasm, and phlumett, become pure, sacred, holy, powerfully cleansing, and GODLY, while you are sexaling, eroteming, orgasming, and phlumetting. Your pure, sacred, holy, powerfully cleansing, and GODLY energies find their way into all of your bodies' spillages, and so please donate them to the site, in appropriate manners.

Building A Latrine

Please employ some one to dig a latrine, and to fashion benches to sit on so as to be able to dump your poop, and pee your urine, into the latrine trenches. Manage the latrine, with care, and employ healthful, tactical, and sanitary techniques to use it safely. Provide hand rails, to grasp, so that no one will slip off and fall into the latrine. Provide barriers so that no one can accidentally fall into the latrine. Use your common sense when providing 'tactical' safety measures.

You need not fashion an over hang, as there is no rain to speak of, in Nevada. You do not need a supported roof, or enclosure, as they will only become stench ridden, and no one will enjoy useing them. There are to be no enclosure walls, or sides, or backs, so as to enclose the odors of the latrine, and confine them to an air tight area, where they can accumulate, and cause explosions, accidentally. They need only be deposited into a safely dug, latrine, and then allowed to filter down into the soil, and then allowed to vapor up into the atmosphere, freely.

No doors should be used, and no barrier walls should be employed, when fashioning the outside framing of the latrine facility, itself. That means, there are no hiding places in the latrine, where people can hide, and be prevented from entering, or exiting from the latrine. Only hand rails need be supplied, and only barriers that are suitable for keeping people from falling into the latrine, need by provided.

Steps may also be provided, to a raised platform latrine, which is more sanitary to use, than a level to the ground, latrine. There should be no walls, and no blind spots when either ascending up the stairs or when descending down the stairs. Women, girls, men and boys, should all use the same facility, and there is to be no fraternizing. Fraternizing is playfully tearing up at the opposition, or at people who you do not like.

Tearing up at the opposition means, you are trying to over throw the person, and dispose of that person, into the latrine. Over throwing the person means to be using reckless abandonment when dealing with another. Reckless abandonment means to be recklessly risking the life and limb of another.

There will be no frolicking at the latrine site. Frolicking is when little boys, and big boys, and little girls and big girls, play around and provide possible hazzards to others. You will not behave in a hazzardous manner towards any one, at any time, or you will be asked to leave, and to not come back.

There will be no play time allowed for children, as this is a collection site, and that means it is a holy site for holy activities, so leave brats at home, and do not bring any one who drinks alchoholic beverages, or who acts unwholesomely, to the collection site. This is a private site, and a prayerful collection site, and that means, you are coming there, to pray, and to make love, and to sexal, as GOD's children, so as to purify the site. You are not allowed to act randomly and with reckless abandoment. Randomly means, without proper self control and restraint. This is not a gay fashion, show or parade, and we will not tolerate reclusive, or unwillingly unwholesome behavior.

Reclusive means, unwilling to participate for the stated purpose of purifying the area. Reclusive means, caution and carelessness is thrown out the window, and you are acting in an irresponsible manner.

Unwillingly unwholesome means, first, unwillingly means, non cooperative, private, or sordid. Sordid means you are acting in a selfish manner, and you are not acting in a responsible manner for self and for others.

Unwillingly unwholesome means, thusly, that you are acting in a selfish manner, irresponsible manner, uncaring towards others, and unwholesomely.

Unwholesome means, you do not care about the life and limb of others, and you would just as soon shoot a person you argue with, as talk to them for a friendly chat. Many of my kids, are very unwholesome, and will just as soon, talk to a person, as shoot the person. You will not act in any such manner.

Any unsafe or prohibited latrine construction will be ticketed on detection, by me, and you will be asked to rework the facility. That will be on the ticket, and please comply, if you and your friends who built it, will be so kind. If you do not rebuild it, you will be asked, with your friends, to leave the site, as you are acting in an irresponsible manner. You will not be allowed back to the site, without your showing proper repensive behavior. Proper prepensive behavior is an attitude of appology, as well as the acts of appology which means, you will take appropriate steps to see that the work is or has been redone, in the manner as required by safety laws, as stated by my children, under Gurkian Law. Either me, or my children, will leave the ticket, and you will be required to fix what ever it is you need to fix, or you will be asked to not stay and conspiriate at the collection site.

Conspiriate means, to participate freely with caution and care for the sake of others. Conspire is also the same, as conspiriate.

You will be asked to not stay and conspire at the collection site, means, the same thing. It means, you will not be permitted to participate freely with caution and care for the sake of others. That means, you will be asked to leave, and you will not be allowed to come back, if we, my children and I, and other attendents, as well, can at all help it.

Attendents are people who participate in the collection site activities, and they are people who take responsibility to make sure every thing is done, properly, and safely, with the sake and safety of others, in mind.

The Home Depot has many nice and useful janitorial equipments, and so it will not be difficult to build a safe and luxuriously clean, and handy, latrine, that is safe to use, for all people, of all ages.

Luxuriously clean, means, it is kept sanitary.

How do you keep a latrine, sanitary? You keep it clean and sanitary by venting the air out, freely, with no blind spots, either underneath or above, where pockets of air, and vapors can accumulate.

No partitions will be installed that will create a blind spot. A blind spot is an area where light can not penetrate. Therefore, your construction materials, must be perforated wood, or grated steel. You can weld together, if you know how to weld, a very nice, grated steel, latrine, that will be safe to use, by every one, of every age. You will need the correct strength of supportive steel poles, to handle the weights of the persons accessing the latrine, and of the latrine, as well. You will make certain to build it well, and to support it well, with firm foundations, of concrete or steel plates.

Any deviation from safe practices for building latrines, will be torn down, disassembled, and the persons or person responsible will ethier be asked to leave, or will be asked to appologise to the memebers of the collection, sincerely. If the person acts in a responsible manner, and appologizes, sincerely, and appropriately, then the person will be excused, with out further, charges being leveled. Further charges will be leveled by my children, if my children detect further, reckless abandonment on the part of any person, participating and acting in a reclusive or recklessly abandoned manner.

Glue People Begun 'Cleaning' Agents

Cleaning the toilet seats of the latrine, will also help to keep the latrine luxuriously clean, and sanitary. You should clean the toilet seats and parts of the latrine, with common household detergent agents, as at this time, we have no choice but to use the unwholesome, Lesbianists' manufactured, ajax, spic and span, lysol, and other such 'glue people begun' agents. Glue people begun agents means, aerosols, and other unwholesome petrol fueled compacted or pressurized sprays, or detergents, that help the Lesbianists to begin the process of turning human beings into glue people. Glue people, in this instance, does not refer to glue, but it refers to tar. Tar is an adhesive substance, and their intent was and is to turn every human they can find into tar people.

We have no choice but to use the local distributors selection of cleaning agents, but in time, we will one day, have all that straightened out, after we demolish the Lesbianists' hideouts, under ground, and after we kill them all, or welcome them in, as 'surrenders', with appropriate, remorseful, penentant attitudes.

Removal Of Latrine Wastes And Disposal Of Latrine Wastes

Latrine wastes materials shall be removed, and supplied to local pig farmers, who can then use the materials, for feeding the animals. Pigs and hogs love to eat away at latrine wastages, and no one knows that. Chicken also enjoy eating human wastages, as well as ducks, geese, and other fowl. Horses and burroughs also enjoy human wastages, if it is healthy enough, with large amounts of vegetable mass in the diets of the human beings, whose wastages are carried to the farms for spreading about in the hogs and pigs, barrels. A barrel is a place where wastages are loaded, up into trucks for delivery to a sewage farm, or a place where farmers can use the wastages, that the hogs are finished with, as fertilizers.

Hogs and pigs use a roped off area, for eating wastages, and employees keep track of the unloaded wastages, and the spilled wastages from the hogs, and then the spilled wastages from the hogs, are then moved to a separate area, for pickup by carriers of farmers. Foods grown at farms using hogs and pigs wastages are useful and nourishing to humans, and other animals.

No fees of any kind for loading and for carrying away wastes to hog and or also pig farmers, should be levied by truck drivers, as drivers will earn a tokenous gratitude tip from the hog and or also, pig farmer. An appropriate payment to the driver and deliverer of the human wastes to the hog and or also pig farmer, should be paid by the hog or also pig farmer, unless the farmer is cash strapped. Cash strapped hog and pig farmers may be given money compliments by the people at the collection site.

Money compliments are small awards, or minor payments, out of gratitude to the hog and pig farmer, for his or her useage of the human wastes from the latrines. Money should be collected, regularly, if hog and pig farmers are cash strapped, and then given to the hog and pig farmer, out of gratitude to him or to her, and presented, tokenously, or as a gift payment. How much should be paid, depends on the expenditures of the driver, for his or her services, and for the use of his or her, vehicle, and for its whollyfied maintenance.

Whollyfied means, the regular maintenance that will allow the truck or vehicle to run at tip top conditon or shape, for the life of the vehicle, figuring it proratively.

Proratively means, spaced out, and paid proratively, or over the period, at regularly spaced points in time, over the given span or the useful life of the truck.

Discussions regarding this, and discussions for compensations, should be held at the collection site, and at the delivery site(s) for delivery of human wastes, by all parties, concerned, regarding all of this, and the primary collection site attendants, the persons elected by the attending or participating persons, at the collection site, who show the greatest interest and sense of responsibilities, at the collection site and with regards to the collection site, and with regards to the collection sites' safe, healthy, and wholesome management, must attend the discussions, and must deliver their sound judgements as to who is to be compensated payments for their participation in the removal and distribution of the wastes from the collection site, to the hogs and pig farmers, and as to how much should be dispensed, per each removal and delivery of human wastes.

Participating persons at the collection site, should elect attendants, and the attendants should regularly check on all points for the safe management of the collection site. Participating persons means, persons who are there for sexaling, and for depositing their holy, pure, sacred, powerfully cleansing, and GODLY sexaling juices at the collection site.

Nevada Power, and all other vendors, are not participating persons, and should not be construed as participating persons, regardless of what they might wish to think, and if they have any complaints, I authorise the killing of all persons who disagree, and persist in

Leveling The Area

Some minor leveling of the area, for maximum use of the area, as an automobile and camper trailer, caravan bus, travel trailer, campsite park, will need to be done.

There are many tiny hills, and a few large ones. There is much dirt that can be removed, from the middle of the site, all the way back to the rear edge of the site.

There is a hilltop trailor park, past the edge of the rear of the parcel, and there will need to be built a very durable, and strong retaining wall, to keep that hillside, shored up, and to keep the trailor park from crashing down the hill side, after slide begins, and creep causes the trailor park to fall into the open area, that will be needed to be excavated, all the way to the rear of the park.

The grade or slope of the hill, need not be steep, but can be at a relatively low angle of ascent. An angle of between ten to twenty five, to thirty degrees, in graduations, from front to back, can be accomplished, with little difficulty, and with no disturbment to the trailor park, or disturbment to the integrity of the trailor park.

We need not seek any permits for construction, as I do not recognize the Lesbianists' governments, on this planet, and if any person shows up who says he or she is a county or city planner, inspector, or whatever, you are to immediately kill the person, and deliver three fivers to the persons' head, as that person is a Lesbianist attempting to interfere in my religious activities.

All activities at the site are to be done, without any interference from any public or other authority, and all costs for all changes and alterations to the site are to be financed by the local construction companies, who are working on the hotels industry, and they will cease immediately their work on all construction, private housing construction, casino construction, and all other towers construction, or work construction, other than the basic infrastructure needed to support the present population of Las Vegas, Nevada.

We are taking over this town and you all will begin to prepare to vacate this town and hand over all of your construction equipment, now, or face your companies and your private persons destruction with my fracturable rocks bombs, begining with the New Orleans Hotel, and all related hotels, and casions, bars, and restaraunts. That means, every gambling establishment is to shut down, stop construction, and vacate this town, now, immediately, post haste, if you wish to live.

You will be destroyed if you refuse to follow orders. We are putting a stop to the non sense of the Lesbianists begining with Las Vegas, Nevada, Henderson, Pahrump, and all parts of Nevada and the Southwest.

You will disband your operations and hand over your companies, such as the water bureau, the power company, the gas utility company, and every other company, including all supermarkets, grocery stores, malls, and so forth, every last business in Nevada, and the south west, to the participants at the collecting site, to take over and then properly manage, until all residents of Las Vegas, remove themselves, to my kids facilities.

Is that understood? You are all resigning and moving into my kids place, underground, surrendering, and moving on for those who are not Lesbianists, but who wish to vacate this area, as this area is in whole, now, a religious grounds.

That means, that I will require the participants at the collection site to take over every thing, and to bring the news reporting stations to their knees, and force them to report the news, that every one is to retire to my kids underground, fortress, and they are all to remove them selves from Las Vegas, now, post haste, immediately, other wise, we will have a fractuable rock bombs throwing contest, to see who we destroy, first.

You must surrender all your holdings, owned property, equipments, and every thing else you call your own, and hand them over to the participants at the collection site.

Is that understood? "YES SIR!" had better be your answer, or you will find yourself on a one way ticket to my Epcot Center, with no return ticket, guaranteed, for however long it takes, to find you tummy mommies and tummy daddies.

I don't think there will be many volunteers, in the near future, as you are all abominant kids of mine, and the only kids people will ever bare, for some time to come, are abominant kids, and animals, and animal humans abominant kids, so I do not think you'll be leaveing my Epcot Center any time soon, if you resist and if you force us to kill you.

Is that understood every body? Good.

The penalty for not complying is death. Do you understand what I am saying? I hope so.

The Party Is Over In Las Vegas, And In The World

The party is now over, in Las Vegas, and at all casinos and gambling establishments, as we know you are all cheating, and we will kill every single last one of you to close you all down.

Who Is Staying And Who Is Leaving, Etc.

You will close down all of your establishments, world wide, and lock the doors on them, and then demolish them, post haste. Is that understood? I hope so. Either you do it, or we will do it. Do you understand that, now? I hope you do, because we are going to demolish every one of your establishments in this town, if you do not demolish them, yourselves. Every last one of them, all houseing, except for those noted in my children's compliance statements, which you are all to recieve, all trailor parks, with some exceptions, all every thing is to be removed, with only the basic infrastrastructure for heating, lighting, water, sewage, medical, hospitals, medical clinics, pharmacies, and so forth, food markets, services industry, HUD, Welfare, SSI, and other operations for the welfare of persons who are here, who can not leave, or who will be staying for some time, and who will be needing the services of those agences, construction companies, lighting companies, electric infrastructure installation and maintenance companies, as well as gasoline supply and distribution vendors, diesel fuels supply and distribution vendors, restaraunts, and telephone. That means, all humans are leaving, except for those person who are to stay on, as indicated in my childrens' compliance statements, and except for those who wish to stay on and participate in spilling their pure, holy, sacred, purifying juices, and those wishing to participate in purifying my area, all of Las Vegas, Nevada, the valley and beyond, in time.

Rules For Hospitals And Clinics, Etc.

There will be new rules for hospitals, and clinics, and my kids will see to it, that the new rules, are followed. There will be other rules, as well, and my kids will see to it, that they are followed, as well, or persons who wantonly disregard them, will end up in prison, underground. My kids have not only a living environment, they have prisons, as well, jail facilities, and many other things. Check with them for a fuller list, of what all they have in the way of facilities, as many are very nice, and there are great possibilities for improving your health, and rejuvenating your bodies, etc.

My kids have a full list of who is to be leaving, who is to be staying, and by when people are to be leaving, and where persons staying, are to be moving to, as we clean up this area.

All of you had better check with my kids, especially, you Lesbianists, but not only them, you religious fanatics, as well, and every one else, of course, or you, especially the Lesbianists and religious fanatics are at risk here, but not too much, the others who are to check in with my kids, risk dying, perhaps, prematurely, and then ending up in my Epcot Center.

My kids also have lists of who the people are who will be recieving all the properties for taking them over, which properties need to be demolished, who will be demolishing things, and how to remove those things that you must remove, and to where you will remove them, and dispose of them, and in what manner you will dispose of them.

You will hand over every thing, and you will all comply, and those who are required to hand over their properties, after complying with removal demands, will hand them over, and then will move out and into my kids place, in accordance with the time schedule that my children have for you to follow. You are required now to check in with my kids, get every thing sorted out, and learn all the details, and then comply.

Those who do not follow these orders risk an early and, fortunate for us, timely meeting with death, and entrance to my Epcot Center for a long stay.

Erecting A Partition Blind On West Tropicana Ave.

The roadway, West Tropicana Ave. runs east to west, and west to east, and it is advisable to erect a pertition blind, so as to not disturb traffic, that comes down the side of the road, the parcel of land sits on, at very fast speeds, with people rubbernecking to see what is going on, as many people will possibly end up flying into the area, with their automobile, truck, gravel carrier, or eighteen wheeler spinnning and turning over, out of control, and then sliding off the roadway and into the collection site.

The traffic is very fact on West Tropicana Ave., and with the interest of the local area residents, who will learn about the collection site, and the activities at the collection site, there will be many hazzards arrising as a result. Some persons may decide to stroll through the area, to steal purses, or wallets, or cameras, and so forth, as there are many poor, indigent, or hopelessly poor, persons, in the area, who do not have any work, and who can not feed themselves, and they need to steal things, to sell, to earn a living.

Such people should be spoken to, and fed, and then warned not to act in an unrighteous manner, which means, please do not steal things, or damage the property, or any thing on it, and please do not get into fist fights, over insults, and disagreements with participants, about who is GOD, and so forth. There are many impoverished persons from South America, and Central America, who only know their local area witch doctor's teachings on voodoo men and voodoo women, and who know nothing but folklorish stories about gouls and ghosts, and people, or ghostly gouls, i.e., people immitating 'gouls', or mean and rotten people, who go 'boo!', or try to scare and rob people, in the night.

Electricity, Lighting, Etc., To Be Supplied By Nevada Power Free Of Charge, Or Else

The partition blind should be sturdy, tall, and break proof, so that vandals can not break it down, or climb over it. Lights for use at night, with the proper permissions for an electrical hookup from the Power Company, Nevada Power Company, will be granted, and provided by Nevada Power, along with all other neccessary, needed, safety lighting hookups, to illuminate the area, fully, at night, so that it looks just like, or nearly like, daylight, or a well lit soccer areana at night, or a well lit professional baseball field, or football field, at night, and it will be given for free, lest we burn down Nevada Power, and kill all of their Lesbianists employees, and meter men, and all of their tawdry workers, who we do not wish to deal with. That means, we will blow up their buildings, and kill them all, unless they give us the electricity that we require. If we need to kill them all, we will then acquire all of their holdings, and we will operate all of them, ourselves. Fair Warning has been given, and consider that as a done deal, unless you wish to visit my Epcot Center.

Meat Vendors And Hispanics From Central And South America

An air of friendlyness, but caution, should be used. Men and boys are there to protect the women and girls. So, please work in teams, and do not let individuals, who might get kidnapped, and sold off to meat vendors, for a few dollars, or pesos, as it is, in Las Vegas, as the majority of such kidnappings and sales of human beings to meat vendors, the Lesbianists chain stores, such as Colonol Sander's Kentucky Fried Chicken, Burger King, MacDonalds, Jack 'n the Box, Wendy's, In-'n-Out, Fat Burger, Taco Bell, Dell Taco, and all the other, fast foods vendors, is by the locally landed hispanics from Central and South America, who need money, to stay alive.

Erecting A Partition Along South Decature Blud.

South Decature Blvd. also has much traffic on it, and there will be lots of people, rubber necking, to see what is going on, so a high, partition wall, made of lumber, should be erected down the side of South Decature Blvd. to prevent all such incidents of rubber necking, and reckess abandonment, from occuring.

The partition should be about ten to thirty feet high, and should be well constructed. Why so high? We do not want people climbing over it, to sneak into the area, to steal things, and to fight with people, and to cause trouble, and to come looking for young girls, and young boys, and helpless, elderly folks, and uneducated to the whims and ways of the downtrodden, brutal, abominant kids of mine, walking the streets of Las Vegas.

Yes. They are abominant kids of mine, and the proof of that is that their children come out as monkey people, and orangutan people, and chimpanzee people, and if possible, the hospital whisks the baby away from its mother, and disposes of it, in the prep rooms, used for killing incoming, abominant kids of mine.

Drawings On Demolition, Construction, Etc.

My kids have construction drawings for constructing all the facilities needed at the collection site for all the facilities that will be needed. They have electrical drawings for lighting, etc., health, fitness, and wellness facilities drawings, latrine facilities drawings, showers facilities drawings, food and beverage eating and drinking areas drawings, and all other drawings related to all things that will be needed to be constructed, or altered in any way, for our project to proceed, including but not limited to, demolition of the cliffs, leveling of the entire area out to Harmon Ave. and up to Flamingo, and back to Tropicana, as well as what is to be removed and leveled between Jones and Decature. There are a few minor exceptions, such as the building that I am living in. Who will move where, to consolidate staff at this project, and who will be moving out, at this project, and what will be leveled at this project, are all detailed in the program specifications, my children have.

My present quarters, will be my place of residence, as things move along, and in time, in accordance with the schedule for construction, a temporary facility for me will be constructed near the area but between Flamingo and Tropicana, and somewhere between Jones and Decature. Please see them for details.

After the area is purified sufficiently, and after all the areas to be purified, are purified, and my children will decide on when that is accomplished, my children will then activate the technologies, and acquire the resources they need, and then they will build a more permanent settlement arrangement for all people concerned, who are staying on, if they decide to stay on.

The partical dismissive technologies and remissive technologies, for foods, and medicines, and other items that are needed, for continued survival, and for all other required purposes according to the specifications for the sexaling for a living programs, will all be provided to the participants who wish to stay on, and houseing for them, as well, will also be included. Parks will go up, and so will many other locally needed facilities. Many things will disappear, as my kids will partical dismiss the things and structures they need to remove, as they construct the new area, for all persons staying on in Las Vegas. My kids have a list of all the names of all the persons who may, if they decide to, stay on in Las Vegas, and not all of them, are local people, so you should all check to find out whether you name is on the list or not.

All other persons, who are to be moving on, and all persons who do not wish to stay on, here, will be required to move into my childrens' present facilities, which they will continue to expand as we continue our program on this planet.

We will eventually clear every one out of the area, inside and outside of Las Vegas and the Valley, and surrounding areas, and the world over, except for the persons whose names appear on the list, as houseing can be provided above ground, for participants in the juices spilling and areas purifying operations, by my children, if those persons wish to stay on and participate.

All other people will be required to move into the facilities my children have, and are continuing to upgrade, and expand, in their encapuslated living environement, in which, many people currently live.

Persons in the encapsulated living environment, may also attend the collection site area activities, and future clearing activities, for purifying the areas with their pure, holy, powerfully cleansing, purifying, cleericating [cle-er-i-cating], and GODLY energies filled, sexaling juices.

Cleericating means, the same thing as clearifying. It is just a slightly different but related word from another a variant language of English, and to cleericate basically means the same thing as to clearify.

When we get the areas, cleared enough, and purified enough, my kids will then start building things for the participants. All others will move below ground, and live in the encapsualted living environement, until they have earned enough money, with their friends, as talked about earlier, to purchase a lease on land, and acuire the lease on resources needed, to build a home, etc., for a large group of people, who will be living together, and working together in the sexaling for a living programs, and so forth.

When Will This All Begin?

As soon as people begin to comply, we will begin our efforts to clean up Las Vegas, to begin with, and then, the rest of the world, and then, the rest of our universe. It will take a long time, as we need to spill our juices, the lay persons, anyway, for some time, to come, as our universe is quite large, and so is the rest of it, that we are going to be recovering.

My Spilling Of My Purifying Sexaling Juices, And My Spilling Of My 'Prayer Time' Purifying Juices

I spill my juices, only for religious ceremonialing activities, during certain relgious ceremonies, and I don't spill my juices, on the properties, as I'm not set up to spill my juices, on the property, now, and will not be set up to spill juices, until I find an excuse for that, and an excuse for performing a religious hand prayer signaling ceremony that will require my spilling of my juices. It's pretty hard to spill juices, when there are no other persons working with me, and I do not work with lay persons, unless they are confirmed by me, and so there will be maybe, some confirmations, but not neccessarily so, as I do not know who is going to wish to be confirmed, and by the way, who ever it is I confirm, must realize that I am the Mother and Father of all human beings, animals, and living beings, and the Creator of my universe. There are not that many people who understand that, except for my kids, my working, unionized kids, and so it will be some time, yet, maybe a few hundred or more years, before some one realizes, 'Hey, he IS the Mother and Father of all human beings, etc., etc., etc.,"

Spilling 'Prayer Time' Spittle Generated While Praying

Until then, I'll use my spittle juices if I need to drop or drizzel any juices, that I generate while I am religious hand prayer signaling, as I don't like or care for the idea of jerking off in public, to spill purifying juices, in public, regardless of the fact, that I am GOD, so it ain't going to happen, any time soon. When I find a authentic 'believer' who realizes and understand that I am GOD, and so forth, I'll begin my public spilling of sexaling juices. I don't mind it in private, but it is not going to happen in public.

Monkey Babies, Jimmy Carter, Oliver North, And The Lesbianists' Conspiratorial Bullshit Stories Of Adam And Eve, And "Jesus Saves"

Most people do not know this, but many births end in tragic loss of the child, because Jerry Falwell, Oliver North, Jimmy Carter, Ronald Reagan, George Bush, Jr. George Bush, Sr., and the rest of them, order and expect all the Lesbianists doctors to kill all babies born to people which do not look human.

Doctors at birthing hospitals also comply, quietly, as it is hospital policy they can not break. If they go against it, they risk losing their job, and possibly losing their life. This is not a joke, and it is the Lesbianistgs policy of having all birthings in hospitals exactly for this reason, for disposing of non human looking babies, at birth, so that their bullshit creation by God, of a 'pair' of people, Adam and Eve, and that "Jesus Saves all good Christians", can not be contested, by logical proof of non human births to human being couples, or single parent women or girls.

Abominant kids are born every day to my kids, on this planet, and they are all executed, or killed off by the local citizens, by their fright and fear of 'ghouls and ghosts' and 'goblins' in the night that go, 'Boo!'. These idiots, both the abominant South Americans, Central Americana, and all my other abominant kids, North American, Europeans, Russians, Chinese, Japanese, Thai, Philipine, and so on, must ask them selves why they are blessed with babies which are either not human or are abominant humans, or part animal humans.

If they ask them selves these questions, they will find out the only answers are that these people born to them, are my children, and my children are born to them for reasons that have not been disclosed to them, before, by the clergical societies, i.e, the religions of the world, and by the other societies, set up by the Lesbianists, or by societies nurtured along as part of the Lesbianists' 'tragic comedy' of their toying with your lives for their humoring themselves, and for their amusing themselves.

Once we get rid of the Lesbianists, and their ways of doing things, we will begin to see babies that are either not human, or are only part human, in animal bodies, and they will be born to all of you who are tummy mommies, and tummy daddies, if you birth enough children, to find out. How many is enough? About one in forty or fifty by my estimation, but depending on the person, it may be between thirty to eighty, from one person to the next.

Take that to our pastor, and tell him or her, to stick it up his or her ass. It is the truth that animals are born to humans, all the time. Not only that, but abominant kids of mine, usually of the apey kind, but not always, are born to the 'normal' looking humans on our planet, and in our universe.

We need not be afraid of these children, as animals, can be collected and put into zoos, and animal humans can be raised by the parents, or parent, in the case of a single parent.

In time, we will adjust to this reality, and we will raise fine children, abominant animal humans, or human appearing abominant children. That means you are all abominants, and the Lesbianists are laughing at you, and at themselves as well, as they go around and kill and cravenly torture every possible person they can.

We will put an end to their craven ways, and we will make a wonderful universe for all of us to live in, in peace, and serenity, once we get started practicing my religion, and once we begin erasing, sufficiently, our karma and our karmic markups, with your purifying sexaling energies, prayers, and other activities, such as syncopated dance, syncopated excercise, syncopated sexaling, and so forth. You time it to the metronome at one thirty seventh, for now, and that will be fine. In time, we will get accurate metronomes, and then we will chance the pace, just ever so slightly, to push my kids along, as I explained about, for our wholesome and healthy universe, for all of us to live in, together with each other.

Punishment For People Who Practice Voodoo Religions Is Dismendment, I.E., Death

We will not be killing or executing children any more, at hospitals, or at homes, or in primitive, backwards towns and villages, or rural hideaway villages, where voodoo religions muster the people into peculiar states of mind, where they become entranced, and then begin mindlessly, acting like chickens, and birds, or fowls, or hippos, and so forth. There are too many of these types of so-called 'religions' in this world, and we are out lawing all of them, and punishment for adhering to them, will be a trip to my Epcot Center, as I have my children particle dismiss their bodies, and then dismend them, bit by bit, into their base components, and then have my children whisk them into my Epcot Center.

We will bring every one up to the level of education every one needs to be at, to better understand my universe, and those who persist in abandoning their obligations, will be dismended with out further notice, after they are sent their last warning ticket, from my kids, in accordance with Gurkian Law. That also applies to the Lesbianists, and to every one else, who is unable to get the picture here, and get with the program. There will be no exceptions. And, this is not a joke.

My kids have courses for you to educate your self in, to pull yourself out of the past Lesbianists' way of life and thinking, and into the new and current, reality, that we will be living in, for ever, from now on.

Local Businesses Will Have No Problems At All With The Collection Site And Will Have No Problems At All With The Activities Of The Faithful At The Collection Site

Walgreen's is across the street, on one corner, and Home Depot is on another corner. I don't think Walgreen's will have any problem with you using the site for your camping, for your meeting with others, for your sexaling with others, and for you and your friends' purifying sexaling activities in that park, i.e., the collection site.

Home Depot, I don't think will have any problem with your use of the parcel of land, either, for those purposes.

What To Do If The Police Come?

Now, if the police come, and I'm there or not, I don't know what they'll say, but they have not got any right to say any thing to any one. Is that clear, Mr. Mayor of Las Vegas, and every one else in the area. I hope it is, as I am not going to stand for your interference or any one else's interference in my religion and in the relgious activities of people who wish to participate in my religion, sexaling to purify my universe. IS THAT UNDERSTOOD, MR. MAYOR AND EVERY BODY ELSE? I HOPE IT IS! AS A 'NO SIR' WOULD BE UNACCEPTABLE!

Now that we have an understanding, I think there will be no problems, and if there are, I will see what I can do about it, by calling my kids up, with my religious hand prayer signaling ceremonies, to see what they can do for you, to help you out, and to break the backs on law enforcement officers, and the Mayor of Las Vegas, and every other person, Lesbianist or not, who tries to interfere with me, or who tries to interfere with the people practicing my religion.

I will not stand for any interference from any one, including Mr. George Bush, Jr., the current president of the United States, or any one else, such as the Mayor of Las Vegas, or the Governor of Nevada, or the Nevada Highway Patrol, or the Nevada Sherrifs Dept. or the Las Vegas Metro Dept. or with any other persons or parties, such as the Las Vegas Gaming Commission, or any other Lesbianists' or Lesbianistic organization set up by the Lesbianists, and that means all you church goers, parochial school teachers, and students, and others, and if any one interferes with any one who comes to my ministry's claimed parcel of land that I am purifying for setting up my ministry, and if any one hassels any one there, than who ever is visiting the collection site, to help to purify it, you have my permission to kill the persons attempting to interfere in any way at all, on sight, with what ever you have to kill them with. Please dispose of their bodies in the nearest trash dumpster.

DO YOU HEAR ME? MR. MAYOR. YOU ARE A DEAD MAN IF YOU EVEN TRY TO SEE WHAT MY RELIGIOUS FAITHFUL ARE DOING, AND SO IS EVERY OTHER PERSON ON EVERY SCHOOL BOARD AND CHURCH OR OTHER LESBIANISTS' COMMITTEE. IS THAT CLEAR, EVERY BODY? GOOD!

You will not interfere with my religion, and with my religious faithful, and they will come to Nevada, and they will come to Las Vegas, and they will start sexaling on that property as they see fit. Does every body understand that? I hope so.

Now. Non responsive persons, who ignore my statements, will find themselves in trash cans, and trash dumpsters, every where in Las Vegas, and any where else, where there is a convenient trash can or trash dumpster. There are lots of them around, and people are throwing dead people into them, every day, across the country and around the world, and they all end up in landfill sites, and so there will be no added charges for our using the statewide Nevada Silver State trash retainers and containers, for however many others who need to be killed, and for my religious faithful to then place them into the trash cans and trash dumpsters.

No charges should be levied by any other Lesbianists' trash collection company, around the world, as they are all owned and operated by the Lesbianists, and we will not support them, in any way, what so ever.

If Mr. Mayor would like to be the first guest inside of one of the Nevada Silver State trash dumpsters, then he will try to interfere, in person, and he will be shot, point blank, in the center of his head.

You will then kill him with three fivers, to make certain he is on his way to my Epcot Center, for his next trip out as a tummy baby. If the Governor of Nevada wishes to interfere, then he does so at the risk of being shot, killed, and made certain he is dead, with three fivers, and then after that, he will be deposited into a local or state trash dumpster, either here, in Nevada, or in California, or Arizona, or where ever it is convenient to dump him into a trash can, trash container, or trash dumpster.

Lesbianists Enjoy Eating People, Who Are Alive, As Well As Eating The Bodies Of Those Who Are Dead

You should let the state's vice mayor of Las Vegas's office know, who was shot, killed, and confirmed dead, after depositing three fivers into his or her head, and then where the body is, and generally when the body was dumped, so that they can get an idea of how decomposed the body is, and whether or not the body is in a land fill site. They can then check on it, and verify that the body will make it to the land fill site, if it isn't already, there, where all the other bodies, are ending up, unless they have already happened to have beeb eaten up by the Mayor, or by the friggen Governor, or by the Sherrif, or by another Lesbianist.

All persons are free to travel to Las Vegas, and they are invited to stay at the parcel of land that I described, and they are invited to make it into a nice camper trailer area for recreational vehicles, or for what ever other types of outdoors camping vehicles, travel trailers, caravan buses, or any other types of camp site temporary stay, housing and living arrangements you would like to use the area for.

Every Game Of Chance, Gambling Machine, Or Slot Machine Is Rigged, In Every Casino Around The World, With Only A Few Exceptions

If you will all sexal, regularly, to the best of your abilities, and help me to purify the area with your sexaling, undisturbed by any one, and clean it up with your purifying energies, you are more than welcomed to come and enjoy the area, and see what fine attractions, will be leaving Las Vegas, in the not so distant future, including the gaming commission, with all their phoney, rigged gaming systems, that the Lesbianists control.

The Lesbianists' Articles Of Participation

The Lesbianists have every game that you can possibly rig, controlled by electronics devices, or by slight of hand, mechanics, who control the gaming rooms, and gaming halls, so that only Lesbianists win any money, that is worth mentioning about, and so that the Gaming Authorities, and the Mayor's office, and every other Lesbianist organization in Nevada, who has any one in their office, can then go and get the money the Lesbianist won, and get a percentage of it, given back to them, as they have arranged to do that, as that is part of their oath, and part of their sworn promises to do, as that is written out in their articles of participation, their rules for living upsite, not down below, in the labrynthine cities, and every Lesbianist must follow those rules, and when they win the Megabucks, and every Lottery in the world, they must give back money to the Lesbianists, as every game of chance that is run in this world, except for bingo, is rigged. However, even Bingo is rigged, in some ways, by people switching cards that look like winning cards, while players are not looking, and by other naughty tricks.

Every Lottery In The World Is Rigged

Every lottery in the world, performs the drawing out of the balls before a live audience, in most cases, before they actually air the show, and they have illusionary tricks they play, with the technologies they have, and they sucker people out of their money, daily, around the world. Las Vegas is no different, and they sucker every one out of their money, except for the Lesbianists, and they let some people, win now and then, small jackpots, on the gaming machines, and then after a winning streak, they set the machines the person uses, so that the person can not win a dime. They have the technologies for rigging every machine in Nevada, and across the country and around the world, so next time you visit one of their casinos, be sure and detonate one of our bombs, you can make, and destroy that casino. Is that understood? I hope so, as every day, millions of people are being suckered out of their hard earned money, they pay taxes on, through the nose, till they are practically choking, and the Lesbianists take it, and support their folley and games. They also support their folley and games with your revenues, that they make sure you lose, at every casion, and at every gas station, with a convience store, that has gambling machines in it, for you to deposit you money into.

Every lottery in the world is rigged, and so if you spend money on it, if you are not a Lesbianist, you are just throwing your money away.

No Fair Play In Nevada, And No Fair Play In The World

There is no fair play, here in Nevada, or any where else, in the world, and I would like you all to know that, and become aware of that, and then I hope you will tell your friends about it, and then I hope you will destroy every single last one of their casinos, and gaming machines.

We are not going to allow them to continue their frolicking at your expense, and we are going to destroy every last one of the Lesbianists, as soon as we can.

If they prefer to surrender themselves to my kids, than we can allow them to live. However, if they do not surrender themselves to my kids, then we will kill them all. And there are no 'maybe's' about that.

Sniper Shooting, And Miscellaneous Information

You have my permission to sniper shoot any police officer, park ranger, sherrif, or other person, plain clothesed police officer or detective, with or without a gun, on sight with your scoped rifles, and targeting assistant who will determine range, from your bunkered in the hillside, shooting site.

Any hotel in the area, which might harbor shooters from local police, sherrif, or SWAT team operations groups, you have my permissions, and blessing, or go ahead, and my 'okay, and 'approved for action' sight of appeal.

Sight of appeal means, my blessings, based on your determination as per your good judgement.

One hotel that is clearly the most convenient, and the closest with in shooting range, at close range, is the New Orleans Hotel. Hotels within shooting range, at a distance, are the Palm's Hotel, The Rio Hotel and Casino and its seperate tower wing, and a few others, off in the distance. You'll have to come and look at them from the approximate location of the site after you determine where every thing is, to locate and determine for your self which hotels and towers need to come down, and what you will need to bring them down.

There is a tower off in the distance, a new hotel, that is going up, that I do not know the name of, but is clearly within shooting range, and needs to come down, and people are on it, daily, welding, and you can't miss it, if you look in the north easterly direction from the site.

There is the Stratosphere Hotel and Casino, which also needs to come down, which is further over to the west from the new hotel wing that is going up. There are many scaffoldings in the area, that also need to come down with explosives, fracturables rocks, fuels, chlorine, and high temperature minerals particles ignition, and particles burnings bombs.

There are probably a number of other landmarks, hotels, casinos, bars, restaraunts, trailor parks, trailors, houses, apartments, condominiums, near or off in the distance, that also need to come down, and need to be demolished with my light weight explosives fuels, gunpowders, metals particles, and chlorine plastique explosives bombs.

You will destroy them all, and you will come prepared, or be prepared to acquire all the demolitions needed to destroy them all, as well as to destroy all the local police and sheriff's many Metro offices, SWAT Teams offices and units, Fire and Rescue Ambulance units, Lesbianists' Hospitals, and other Lesbianists facilities, throughout the Las Vegas Valley, Henderson Nevada, North Las Vegas, Pahrump, Mesquite and the whole Southern Nevada, westward to San Diego, California, northward to Los Angeles, northward to San Francisco, California, northward to Berkely, California to Oregon, and Washington State, and back down to Reno Nevada, Arizona, New Mexico, Albequerque, Houston Texas, Dallas Fort Worth Texas, and all areas where there are tactical SWAT team units, military units, militia units, as all militias are organized and operated by Lesbianists, despite popular beliefs that they are independent of the government, and anti government, as we often see on the "TV for the Brainless", as they are often refered to, i.e., the general public.

You will destroy all law enforcement offices, and personel, and all military and militias. All governments, their offices, and employees, are to be destroyed, and all personel are to be executed, except for those who take it upon themselves to execute the Lesbianists among them.

My kids have a full list of all the places and structures that need to be destroyed, and demolished, and so please see them for that information.

And to repeat, your orders are to kill the president of the United States, George Walker Bush, Jr. and all of his and his wifes' Lesbianists' associates, pretend relatives, and friends.

We are not going to let this stand, another moment, and if they do not surrender to my kids, you are to execute them all. My kids have a list of names, of those, who have not surrendered, as yet. Please see them for and ask them for that list of names of persons who have not as yet, surrendered, and who need to be executed, post haste, immediately, or, ASAP.

United States President George Walker Bush, Jr., is no exception to this, as he has not surrendered, as of yet, and that is confirmed. Neither has any of his colleages, or congressional office holders and diet or congress members, except for Ted Kennedy, and one or so others, and maybe a cabinet member, one or there abouts, but I haven't confirmed that, yet. There are some members of the congress who are not Lesbianists, and you can get their names, on a list from my kids, as well.

Captain Off The Bridge.

John Francis Ayres
      GOd
  And Children

The Gurkian Way Foundation Ministry Institute
johnfrancisayres @ yahoo.com
Google Groups NewsGroup: http://groups.google.com/group/gurkianagegurkianway
Yahoo Groops NewsGroup: http://groups.yahoo.com/group/gurkianway/

John Francis Ayres
5540 West Harmon Ave. Apt. #2004
Las Vegas, Nevada 89103
USA

(702) 894-9518

Chief Priest and Head Abbot
Gurkian Way Foundation Ministry Institute
Cloistered Conservatory And Cloistered Monastery
West Tropicana Ave. and South Decature Blud.
Las Vegas, Nevada 89103

From 5039372294768288003
X-Google-Thread: 10e8c9,a676756238b0cdf,start
X-Google-Thread: 116029,a676756238b0cdf,start
X-Google-Thread: 107568,a676756238b0cdf,start
X-Google-Thread: fc2a5,a676756238b0cdf,start
X-Google-Thread: fec2a,a676756238b0cdf,start
X-Google-Attributes: gid10e8c9,gid116029,gid107568,gidfc2a5,gidfec2a,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l53g2000cwa.googlegroups.com!not-for-mail
From: johnfrancisayres@rock.com
Newsgroups: alt.startrek,alt.tv.star-trek.tos,alt.tv.star-trek.voyager,rec.radio.amateur.homebrew,alt.politics.usa.republican
Subject: Ship's Tour Of My Universe To Begin - Call To Arms! Duty Stations! Fire When Ready! Cease Fire Procola! Pt III/III
Date: 14 Feb 2007 10:26:32 -0800
Organization: http://groups.google.com
Lines: 1591

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NNTP-Posting-Host: 172.193.227.47
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X-Trace: posting.google.com 1171477608 30744 127.0.0.1 (14 Feb 2007 18:26:48 GMT)
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User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
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Xref: g2news2.google.com alt.startrek:12661 alt.tv.star-trek.tos:17875
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alt.politics.usa.republican:312810

Texas's Lesbianists' Latest 'Vaccine' And Texas's Attempts To Destroy Women's And Girls' Vaginal Lining And To Destroy Women's And Girls' Cervical Lining, Causeing Stillbirths To Increase, So As To Prevent The Successful Birthing Of Children - Latest Lesbianists' Vaccine Will Cause Numerous Problems - Execute United States Of America, State Of Texas, Governor Perry And Family - Underground Books Distributor's For Militia Types Folks - Information On Bombs Making And Detonators On The Web - Solar Flares And Flare Igniters - The Lesbianists' Balooney On Minus Charges As Opposed To Positive Charges - The Lesbianists' Maps Of The Brains - Execute The Current President Of The United States Of America, George Walker Bush, Jr. - Lesbianists Who Decide To Sexal In My Religion With Lesbianists And Non-Lesbianists' Persons - Citizens By Proxy - Temporary Full Time Citizens - What To Do About Untimely Pregnancies, Health Issues, Medicines, And Regroverative Formulas - Medical And Housing Benefits, And Other Health And Work Related Benefits - When Can People Begin To Come So As To Be Able To Participate? - Sniper Points, Places Where Snipers Shoot From - Pocket Knives, Construction Tools, And Miscellaneous Daily Life Management Tools And Equipment - Hookups For Travel Camping Vans And Similar Vehicles - Cleaning Up The Area And Throwing Away The Garbage - Schedule For Leveling Of The Ground And Hills In The Area, Removal Of Unsightly And Smelly Garbage - Setting Up New Facilities - Fountains And Showering Lamponeers - Restaraunts, Clubs, Lounges, Eateries, Cafeterias, Bars, Pubs, Bicyle Paths, And So Forth - Dealing With Criminally Minded Persons - Alterations, Modifications, Changes, Clearing Up And Removal Of Garbage In The Areas, And Additions Time Schedules Updated: 12-02-07 Rev.a.00.a 02:30 PST

Texas's Lesbianists' Latest 'Vaccine' And Texas's Attempts To Destroy Women's And Girls Vaginal Lining And To Destroy Cervical Lining, Causeing Stillbirths To Increase, And To Prevent The Successful Birthing Of Children

The latest attempt by the Lesbianists' governments of the world, near by my computer window, on the internet news services, to destroy and toy with the human population of this planet, has been launched in

Texas, and is targeted at women and girls, and their ability to have children.

See the article at the end of this post.

The new vaccine, which is mandated by Governor Rick Perry, who signed it into law, and is now obligatory, unless you protest it, and go to court, and spend years fighting it, as an individual or small group of claimants, will destroy the vaginal cervical collar and the lining that holds every thing in place, and supports the interior of the vagina, thus making it impossible to carry a fetus to term. The vaccine is also targeting the brains fibers throughout the human body, and the fibers of the brains in a woman's or girls' body will slowly rot, and decay as they are eaten up by tiny animals that eat these energies conducing fibers, synapses, relay switches, and other related energical brainal related things and dings thoughout the body.

Latest Lesbianists' Vaccine Will Cause Numerous Problems

It will also speed up the eating away of the enamel of the teeth, and of the bones in the woman's and girl's body, her fingernails, and her skin membranes NS membraneous tissues throughout the body, and on the exterior of a woman's and girls' body, making the women and girls grow older looking at ever more younger ages, and making women and girls susceptable to skin cancer, melanoma, herpes, genital warts, other infestations of animals in the skin, and other skin related membrane destructing colonies of animals, that they use from out of their Bio Chem War encyclopedia of how to destroy human beings, with poisonous and health problems causeing crystals cages animals of all kinds. Especially numerous are the Bio Chem Warfare crystals cages animals of the petroleum industry's based kind.

The vaccine is no different from any other of the Lesbianists vaccines aimed at destroying the health of the people who live on this planet. It is compared to the 'polio' vaccine, in the news article, and that was similarly an attempt at destroying the health of the human being, by making the human being incapable of haveing any sexual orgasming capabilities, by killing off all the sex related animals and bugies in the body, which make sexaling juices, that make eroteming and orgasming possible.

Thus, this latest attempt at destroying the health of the people who live on this planet, locally, in Texas, and that I know of, anyway, is nothing more than the Lesbianists toying with the people who they are here to amuse them selves with by destroying them, little by little, over a long period of time.

Execute United States Of America, State Of Texas, Governor Perry And Family

This will not stand, and you will all destroy the capital of Texas, and Governor Perry's mansion, and the Governor and his wife, and their family, pretend or otherwise with my fracturable rocks and fuels chlorine and explosives, etc., bombs, that you will make in your home's garage, or workshop, safely.

Underground Books Distributor's For Militia Types Folks

Use the delayed timer invention, that is a workable time delay detonator, that I've explained about, especially if you use black powder gun powder, mixed with axel grease, turpentine, benzine, chlorine, using also some Elmer's glue, prior to mixing with chlorine, and then set it in a warm cupboard, to ferment for a few days, to then turn into a nice plastic explosives mixture for detonating with the string of flash bulbs wired to the alarm clock trick, as described by Ragnar or by one of the other bombs making specialists, in their sub culture literature for militia types folks, who wish to destroy the government.

They find the list of names of all the people who request the literature, by mail, and then they go and watch them, with their surveilance technologies they have, and then they either capture and torture them, and then kill them, or they just make sure they are die, in a fatal car accident, or whatever.

Paladium Press is one of the Lesbianists' book publishers, and there are others, and this one is affiliated with the National Rifle Association, a Lesbianists organization.

This publisher has titles sold to underground books distributors, and you can find a number of underground book distributors on the internet, which carry more titles than Palladium press.

Delta Press, who publishes their books and paraphenalia distribution listings magazine, 'Delta Force' is one of these distributors of interesting underground literature.

http://www.deltaforce.com/catalog/page30dp.html

'Home Made Fireworks', is one web page to look at, if you have the time.

http://www.deltaforce.com/catalog/page28dp.html

'Booby Traps, Explosives and Black Medicine', is another useful page to look at, as well.

http://www.deltaforce.com/catalog/page30dp.html

There are a number of other distributors of underground literature, and some have better selections than does Delta Press.

In any case, with a little research, there are plenty of 'timed detonation devices' drawings, and explanations, for you to view, and learn from, that will help you to construct a timed detonator, that will allow you to safely set off one of your plastiques bombs made with my explosives formulas.

Paladin Press, you can find their books at Amazon Books on the web, another Lesbianists owned corporation, is another publisher of interesting underground literature, that can be useful for you to study and learn from.

Paladin Press can be found at, http://www.paladin-press.com/

Books for supposed 'Professionals' who are anti terrorists professionals, that allow them to detect the different types of bombs people can make, and then use to destroy others, is sort of a tounge in cheek joke of the Lesbianists, for luring in people who wish to find information on bombs and explosives.

There are many useful books published to help beginners understand the basics of bomb making. The idea is to use the information for professionals who wish to understand the craft of making bombs, and detonating devices, and then use that information to build your bombs and your detonating devices.

The flash bulbs wired to an alarm clock with matches and ignitable phosphates glued to a string of flashbulbs, wired properly together, then crushed, so as to expose their flash and heat ignition coils filaments, for your detonating heat energies ignition needs, is one of the basics and you can find it in one or another of the underground books on bombs making and detonation devices making for 'professional' anti terrorist's private investigator or bombs detection professionals types.

This is one of the ways the Lesbianists lure in persons who know nothing about weapons, and then they find out who they are, and then they make friends with them, and toy with them, and introduce them to their Lesbianists' friends, and hang out with them, and pretend they are all friends, then one day, they all attack the person, and torture the individual, and get their kicks, amusing them selves, by ripping the person up, or by hanging, and nailing the person to a wall, with a nail gun using, approximately, three inch nails, and then hammering in longer, seven inch to twelve inch nails, or larger ones, or other similar nonsensical, childish, but fiendish behavior.

The "BRUTAL ART OF RIPPING, POKING & PRESSING VITAL TARGETS"
"by Loren W. Christensen"
http://www.paladin-press.com/detail.aspx?ID=1441

Is a beginners guide to ripping people apart, one arm, or leg, at a time, or with team work, one half of a person can be ripped from the other half, if you hold the right bones in place, and then, using teamwork, rip the person into two or more pieces. This book gives a person a preliminary sense of what he or she can muster, as an individual who attempts to rip at a person, and tear the person apart, one limb at a time, or with friends, how to rip a person up, one piece or more, at a time. Ripping people up is accomplished best, if they are unconcious. If they can not fight back, or resist, it is easy to rip a person apart, if you have the needed strength. Since many people have ancestors who were monkeys, chimps, orangutangs, guerillas, and so forth, with tremendous muscles strength, there are lots of very tiny persons, with phenomenal strength, and they can easily rip a person in two, by them self, if they try.

Books on booby traps for law enforcement personel, are simple descriptions of bombs that they may or may not encounter, and there may be some useful information in some of them such as,

"BOOBY TRAP IDENTIFICATION AND RESPONSE GUIDE FOR LAW ENFORCEMENT PERSONNEL"
"by Tony L. Jones"
"This manual teaches cops and other law enforcement personnel all they need to know to recognize a booby trap and respond properly. Find out where booby traps are most commonly employed; the 11 physical signs that most often signal a trap; what to do (andnot do) if a trap is suspected or found; how to safely search a building, outdoor site or vehicle; and the one indicator that practically guarantees that a building has been booby-trapped. Shows more than 90 different booby traps in place. For academic study only. 5 1/2 x 8 1/2, softcover, photos, 80 pp."

There are others, which you can also find, that will provide schematics, and drawings of useable ambush related devices, and detonators for them.

"Contingency Cannibalism", sold through Paladin Press, and other 'underground' book distributors, is one of the Lesbianists' favorite books, that help them to track persons who they would like to later, cannibalize, themselves, as a joke on the person.

"CONTINGENCY CANNIBALISM"
"Superhardcore Survivalisms Dirty Little Secret"
"by Shiguro Takada"
"This twisted, tongue-in-cheek look at cannibalism as a last-resort survival option analyzes real-life case studies and historical episodes of cannibalism. Then it examines the hard-core decisions and gruesome details one must know in order to partake in this grisly practice. Recipes included. For entertainment purposes only. 5 1/2 x 8 1/2, softcover, 160 pp."

The Rusksack, "Survival Information Clearinghouse", is just one club of members of mainly Lesbianists, who have fun toying with the people who live on this planet.

http://therucksack.tripod.com/survival.htm

Information On Bombs Making And Detonators On The Web

For information on making detonators, and other bomb related stuff, please see this web page as it costs nothing.

http://www.bombshock.com/archive/Homemade_Bombs/

Solar Flares And Flare Igniters

A solar igniter as talked about in the article on page,

http://www.bombshock.com/file9/crtrmkr.txt-Crater_Makers-932.htm

'Crater Makers', is a solar flare igniter, a device that is used in solar flares, or night time distress signal flares, that ignite the flare, by sending an electric battery current into the flare phosphates holding tube, down a wire, on an ignition circuit, and then igniting the distress signal flare.

You can find solar igniters inside of distress signal flares that are used on boats, for shooting up into the air, with a flare gun for maritime use, that will send the distress signal flare up into the sky, if you have the flare gun pointing in that direction, and then at a certain altitude, a trip switch circuit is activated, due to air pressure, or due to timing from time of departure of the distress signal flare from the flare gun barrel.

You have to exhibit extreme caution, when taking a flare apart, as it can detonate, accidentally, and they are not made in a way so that people can safely take them apart, and people who try to take them apart, are accidentally injured, on a regular basis. Do not use this, if you do not know any thing about demining, as a professional mine deactivating specialist in the military, or with military training. This is best left up to the professionals, and is not meant as something the average house wife, business man or business woman, or chemistry or other studies, school student, should attempt.

You can use a flash bulb, and get the same results, if you glue some gun powder and phosphates to the flash bulb housing, and then crush the glass, and then wire it properly to a common house morning wake me up, alarm clock with a striker bell and a striker that moves back and forth. The circuit is simple, and you can figure it out with little difficulty.

The Lesbianists' Balooney On Minus Charges As Opposed To Positive Charges

Remember the minus sign on a battery is where all the activity of the little energies kids is going on, and the Lesbianists purposefully teach that the positive side is where the current is moving out of, and around towards the negative side of the battery. The Lesbianists teach that the active side of the battery is the plus or positive side, or the side with the plus sign on it, when you look at a common house hold nine volt battery, and that the non-active side is the negative side, or the side of the battery with a minus sign. This is false. The side with the minus sign on it, is the active side, and that is where you do not want to wire any thing to, unless you know what you are doing. The positive side has no activity going on, and is safe to touch, but the other side is not safe to touch, and the testing meters are wired to show you that the reverse is true. They have tampered with the design of testing meters, so as to support their allegation and falseity, that the minus side is where there is no activity, contrary to the truth.

That means, that, the flash bulb igniter system and the flash bulb itself should indicate that one side is the positive side, for the positive wire to be attached to. You had better check carefully, and make sure there is no mischief here, as you do not want to detonate your igniter, accidentally. Ask a qualified electronics specialist to do all your wiring of your detonators, as he or she is the only person qualified to wire these types of detonators.

The Lesbianists' Maps Of The Brains

It's rather confusing, the way the Lesbianists have reversed things, and have messed around, so as to thwart your attempts to make nice detonators that work every time, unless you have a normal set of brains, which unfortunately, I have not got a pair of, or triple set, or more of. That's sort of a joke. On a magazine, yesterday, I saw how the Lesbianists teach that one part of the brain is for speech, and one area of the brain is for speaking, and one area of the brain is for sight, and one area of the brain is for logical thinking, and one area of the brain is for signing, or one area of the brain is for artistic inventioning, and so forth, but that's a lot of hog wash.

The brain is not partitioned in that way, and they know it, and they are misleading every one, and laughing at all of you while they are doing it, with their 15th to 17th century style drawings, that they have plastered on all the Time magazines, or what ever magazine cover it was on, that I saw in the check out lane, at the super market, yesterday. You have kazillions, and more of parts to your brains, and there are so many, it is unlimited, nearly, and your brains are so complex, and you have got brains in lots of other places in your bodies, other than in your head, and I'm not going to go into that one, now, but the Lesbianists are lying through their teeth, when it comes to this type of pseudo historically backwards, archaic, or cave dwelling human's notions on science, that should insult a first grader, or kindergarden school student, or preschool student.

In any case, ask your local electronics' specialist or house hold electricians' specialist, or handy man repair persons, who work for house hold water heating devices installation companies, or other electrical home appliances sales and installation companies, who also get confused, from time to time, as I've witnessed them, personally, blow up breaker circuits.

Get a qualified, and that's hard to find in so far as I've witnessed them at work, electronics' specialist to wire your detonators, or go take a course with my kids, as they have courses available on wireing such devices.

There is no minus charge, and there is no positive charge, and that is what you should understand. There is a side to the battery where there is lots of activities going on, and that is the minus sign side on the battery. The positive sign side on the battery is where there is little to very little or nearly no activity, but no activity is not the truth, either, as there is activity, you just can not measure it with todays' electronics measuring devices, as they are not technologically sophisticated enough to be able to detect the activity, though I'm sure there have been intrepid scientists who discovered that both sides of the battery have activity, and then they were shot and killed, after that discovery, by a Lesbianist assasin, or by a hired assasin, assigned or paid to kill the scientist who discovered that there is activity at the 'minus' side of the battery as well as at the 'positive' side.

That means, that you need only concern your self with the 'minus' side, since you will not be able to detect any thing at the positive side, unless you use the reverse wired electronics and electrical energies detection devices that the Lesbianists market through Tandy, or Radio Shack, and at Sears, and so forth.

It gets confusing, a little bit, doesn't it. Anyway, go and take a course at one of my kids classes, after you sign in, and swear in as a jr. member to our new country, which I haven't sworn on to, as yet, or joined - but though I am the boss of, regardless - since my kids do not speak to me, on a daily, or weekly, or other basis, and I just happen to be able to know what they are doing as they tell me what they are doing, through some secret port hole in one of my brains some where, in my toes, or nose, or who knows where, as they telegraph or some how signal in, using semiphore signaling, or probably hand signaling, that my brain then catches, and then passes on to me, their messages that they signal in to me, and the news, as well, about what they are doing, and about what is going on with them, and about what is going on with some other things, as well.

Since I am GOD, I happen to have a right to know this stuff, what they and every body else is doing, on a daily basis, but they haven't told me how my brains catch their information, yet, or the other information that gets there, some where into my one or more of my brains, and I haven't figured it out, yet, myself, either, though I think I know something, a very little something, about how it works.

This does not mean, that my brains are unreliable - except for my memories areas of my brains, in particular - but that I am just waking up to what is going on, here, and I have a few kazillions of years to work out every thing, or some of the basics, any way.

In any case, you have all been snookered by them, with regards to their non sense sciences, and you are being laughed at, and toyed with, daily by them. That happens to be the truth, whether we find it pleasant or not.

Execute The Current President Of The United States Of America, George Walker Bush, Jr.

In any case, the Lesbianists are a twisted group of individuals, who toy with the people who live on this planet. Mrs. Hillary Clinton, Bill Clinton, George Walker Bush, Jr. President of the United States, his wife, Barbara Bush Jr., George Bush, Sr., former president, and his wife, Barbara Bush, Sr, are all gagsters, or jokesters, who wish to only toy with you, and eat you, or deprive you of your life, and of your rights, in fiendish and horribalistic ways and manners.

They are all to be executed, especially George Walker Bush, Jr., President of the United States of America, currently residing at 1600 Pennsylvania Ave. Washington DC, in what they call the White House. You are to kill them all, and send every last one of them to my Epcot Center, as soon as is convenient for you.

Lesbianists Who Decide To Sexal In My Religion With Lesbianists And Non-Lesbianists' Persons

If any Lesbianists decide to sexal in my religion, with their friends, and their friends may include other Lesbianists who decide to sexal, as well, as well as, other people they know, then they may begin sexaling with their friends in my religion, however, they must have a pentative attitude, and they must say they are sorry, and they must now and then, when they feel they wish to, and feel emotionally and mentally capable of speaking about it, they can talk with their friends who they are sexaling with, and with others who wish to listen as well, and they can denounce the Lesbianists by telling people about the things the Lesbianists do, and did.

If they decide to do this, this is the same as surrendering, and my kids will protect them from other Lesbianists who might want to harm them. They have not sworn in, as a citizen of my and my kids' country, and as citizens of our country that every one is swearing in to as citizens, but it is sort of a promise to swear in, informal gesture that they are committed to, once they begin sexaling with their friends, and with other Lesbianists, who also wish to sexal and in time, denounce the Lesbianists with them.

Citizens By Proxy

By denouncing the Lesbianists organization, and by telling people about what the Lesbianists do and did, they are essentially stating they are sorry for what has happened, and that is a pentative attitude, and with that pentative attitude, they are accepted as citizens, by proxy.

Temporary Full Time Citizens

Citizens by proxy means they are accepted by my kids as pentative persons, who wish to join our country, and who there with, qualify as citizens of our country, in an informal manner. Citizen by proxy means, they give up their old citizen ship, to whatever government they used to belong to, and they are taken in, as temporary full time citizens.

Temporary full time citizen is a term that means they are full time citizens, but on a temporary committal agreement, and that will be made permanent when they have the chance to meet with my children, and then can swear in, as a permanent full time citizen.

They can then participate at the collection site, in the activities that will be going on, with others, who wish to participate, as they spill their juices, and purify the area with their sexaling juices.

What To Do About Untimely Pregnancies, Health Issues, Medicines, And Regroverative Formulas

My kids will deliver to them, to the men and to the women who surrender and become citizens by proxy, and temporary full time citizens, the needed medications that will help to make their bodies, wholesome and well, and regroverated, as well as the medications that are needed to prevent untimely pregnancies.

Medical And Housing Benefits, And Other Health And Work Related Benefits

My kids will make certain that they will be given the right medications, and my kids will also provide all the same medications for each individual who participates in the collection site activities to purify the area where we will one day set up my ministry with my kids assistance. My kids will also set up other facilities, as well as the ministry facilities. The other facilities will be scattered through out the valley, and they will be the houseing units and other facilities for people to use to become physically fit, well, and well nourished, and healthy, such as gyms, aerobic studios for practicing aerobic dance, and aerobic excercises, as well as sauna and health spa, and swimming, tennis, badminton, cricket, and other sports facilities for baseball, rugby, foot ball, for those who wish to play a friendly game of foot ball, now and then, with the needed bleachers, lighting, and other supportive facilities for allowing persons to attend and watch the games that are going on, not only for foot ball, or for base ball, but also for tennis, soccer, rugby, and all out door sports facilities that will be needed.

When will my kids set up these facilities? They will set them up at the same time or shortly there after, as my kids begin to set up my ministry facilities, and the needed facilities for living and working in the valley area, sexaling for a living.

At that time, the citizens by proxy, and all other persons who have not yet sworn in, but wish to, will have the opportunity to swear in, and then they can enter and use the facilities full time, twenty four hours a day, without any further discussion about it.

All people who participate in the collection site activities, are also citizens by proxy, and as such, will automatically qualify for all medicines, all health supportive medical formulas, and all youthfulness prolonging, or regroverative formulas, that will feed all the amoebes, and other cells, or living beings in your bodies, and that will feed all the living beings in your bodies, that will then allow you to enjoy full regroveration of your body and rejuvenation of your youthfulness, youthful energies, and of all the other health benefits that accompany a youthful body, such as more energy, a stronger libido, a more healthful body, and so on.

When do people begin this participation in the collection site activities? As soon as they come out here, to Las Vegas, and arrive in their camper trailers, or caravan buses, or other vehicles, or with their camping gear such as tents, and cooking grills, and so forth.

When Can People Begin To Come So As To Be Able To Participate?

How soon can people begin coming to participate at the collection site in the activities that will be on going at the collection site for some time to come?

They can begin coming to participate any time. My kids will watch out for the safety of all the people who come to participate in the collection site activities. My kids will prevent accidents such as current Lesbianists shooting at people at the collection site, from high rise towers, scaffolding, tall cranes, or from hotel and casino properties owned by the Lesbianists, and from other tall condominium and also from tall apartments buildings and also from normal sized, two or three storey, to eight or so stories, apartment buildings, in the area. Of course, my kids will prevent accidents from happening such as shootings, from all possible locations, and not just from those named structures and locations.

Sniper Points, Places Where Snipers Shoot From

There is no need to blow or destroy them with explosives, in Las Vegas, as there will be no way any one can use those hotels, and other structures, as shooting or sniper points, places where snipers shoot from, to harm any one who is participating at the collection site, in the collection site activities.

In time, every thing will be worked out, and all the people who must hand over their companies, or disolve their companies, and sell or get rid of the assets of their companies, all of that will be in compliance with my childrens' instructions with regards to it, as I've stated about it, already, in brief.

Once the facilities are set up by my kids, and people swear in formally, then my kids can begin to pay people their earned income, for the work they did as they sexal for a living, and for their work, as they spill their fluids, to purify the collection site, the collection site area, and the general vicinity.

Pocket Knives, Construction Tools, And Miscellaneous Daily Life Management Tools And Equipment

No one needs to bring weapons to the collection site area, or to Las Vegas, as they will not be needed, and pocket knifes are okay, and construction tools are okay, but they will be for daily use activities, only. Daily life management tools are forks, knives, spoons, chopsticks, plates, dishes, glasses, coffee cups, can openers, bottle openers, cork pullers, and these types of things, as well as all the other types of kitchen use tools for cooking food, for eating food, for drinking beverages, and for the collection of garbage, and food wastes, and for cleaning up their eating and cooking utensils, such as portable wash basins, and portable gas stoves, or fixed stoves, fixed wash basins, fixed showers in camper trailors, and in caravan buses, and so forth.

Hookups For Travel Camping Vans And Similar Vehicles

We have no hookups at the site, for water supply, electricity, or sewage, as yet, but the instructions that my kids will make available to persons who come in to my kids' underground facilities - the protected and encapsulated living environment - those persons who go in to recieve the instructions, and other information they must recieve on companies and assets, and persons moving on, and on persons staying, and other information needed to successfully carry out the removal of hotels, and the demolition of buildings, etc. which my kids will handle with the technologies they have available to them for their use for these purposes, and for other purposes.

Cleaning Up The Area And Throwing Away The Garbage

My kids will also handle the required steps for clearing up of the litter and garbage in the area, all of Las Vegas, Pahrump, Henderson, Laughlin, Mesquite, North Las Vegas, Arizona, New Mexico, California, Utah, and beyond, above ground and below ground, and for cleaning up the areas, and for removing the underground and above ground garbage, or city buildings and Lesbianists' structures, and all structures that are no longer needed, train tracks, airports, roadways, bridges, parks, hospitals, medical clinics, and so on, all of which will no longer be needed.

Schedule For Leveling Of The Ground And Hills In The Area, Removal Of Unsightly And Smelly Garbage

Initial leveling of the grounds' areas, leveling of the uneven surface areas, and leveling of the sloping areas, and of the tiny hills, and other uneven and unuseful features to the area, such as hills, low cliffs, and removal of unsightly, smelly garbage, will be done by my kids, with the technologies they have available to them, according to the schedule for making these types of changes, and cleaning up of the area, so as to make the area, one hundred percent, useable for collection site activities, for people to then come in and use the area as a collection site.

Setting Up New Facilities

My kids will take care of all of that, and they will take care of all of the work and tasks for setting up a private collection site area - for spilling purifying sexaling juices, to purify the area - in accordance with my kids' schedule for these works and tasks for setting up a private collection site area, with tall side walls, and barricade walls, to prevent people from rubber necking as they drive by, so as to prevent car, truck, automobile, motorbike, and bicyle accidents. My kids will also set up the latrines, and other needed hygenics facilities, sleeping accomodations, eating facilities, rehydration facilities, co-opted bathing facilities, sports and excercises facilities, and other facilities.

Co-opted facilities means facilities used co-optively by men, boys, women and girls. Co-optively means, in cooperating measures with each other. Cooperating measures means, each of the four groups of people, men, boys, women, and girls, will work together, to keep the facilities sanitary, clean and healthful, neat and tidy, and safe for use, keeping young children from playing on the stairs for the elevated latrines, and keeping young children from getting in the way of asscending and descending users of the co-optively, or cooptively managed facilities.

Fountains And Showering Lamponeers

My kids will also use their high tech teletransportation technologies for removing toddlers from the stairs, and for placing them in a much safer location, such as in a near by sand garden, or play area, with sandy areas, and with toys to play with, and with cold showers, or showering fountains, people can refresh themselves under, and with fresh water to drink.

Lamponeers are showers that shoot up from sprinkler systems embedded in the paved surfaces, or concrete like surfaces, that shower water up and over the area, up and above and over persons who are there, to cool every one off.

Restaraunts, Clubs, Lounges, Eateries, Cafeterias, Bars, Pubs, Bicyle Paths, And So Forth

Bicycle paths, mini bike paths, walking paths, with rest stations, for refreshments and food, will be set up, and restaraunts and other facilities will be set up, nearby and they will be accessable by following these foot paths, bicyle paths, waling paths, and so forth.

All needed facilities for all parties, such as accomodations, living quarters, health clinics, excerize facilties, swimming pools, saunas, spas, and clubs for eating and mingling with persons, either in light weight evening wear and garments, or partially naked, or in the buff, will also be set up by my children for the use by all legitimate collection site participants. Gurkian Laws apply, and no other laws, such as local area laws, will be enforcable. Police and others will be turned away, and the rights of participants at the collection site area, will be protected one hundred percent, as we begin to change over to the new Gurkian Laws we will all be living by, from now on.

Dealing With Criminally Minded Persons

Any violators of the Gurkian Laws, codes, statutes, and so forth, my kids will arrest, and detain, and then place into prison cells, and then sentence them, in accordance with the sentencing requirements under Gurkian Laws, etc., and they may end up doing humiliatory punishments, or community clean up activities. In any case, they will be arrested by my children, who will use their high tech, biometrics and teletransportation technologies, and their other integrated technologies that they have, to swiftly remove the violators of Gurkian Laws, from the collection site and from the collection site area, and vicinity, and that will effectively cancel out their participation, until sentencing has been given, and until penalties have been leaned.

Penalties have been leaned, means, they have undergone sentencing, and the penalties have been enforced upon the violators, i.e., the guilty parties.

Alterations, Modifications, Changes, Clearing Up And Removal Of Garbage In The Areas, And Additions Time Schedules

These modifications, alterations, changes, and additions, etc., will occur over a period of time, as my kids have a schedule for all of these changes, modifications, alterations, clean up, and additions, etc., and they must stick to the schedule, so after you arrive, if you do not see some thing you feel should be there, by then, it is not there because it is not on the priorities facilities and priorities changes, etc., schedules lists.

Captain Off The Bridge.

John Francis Ayres
      GOd
  And Children

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http://news.yahoo.com/s/ap/20070202/ap_on_he_me/cervical_cancer_2

Begining of article.

Texas requires cancer vaccine for girls

By LIZ AUSTIN PETERSON, Associated Press Writer

AUSTIN, Texas - Bypassing the Legislature, Republican Gov. Rick Perry

signed an order Friday making Texas the first state to require that schoolgirls get vaccinated against the sexually transmitted virus that causes cervical cancer.
ADVERTISEMENT

By issuing an executive order, Perry apparently sidesteps opposition in the Legislature from conservatives and parents' rights groups who fear such a requirement would condone premarital sex and interfere with the way parents raise their children.

Beginning in September 2008, girls entering the sixth grade - meaning, generally, girls ages 11 and 12 - will have to get Gardasil, Merck & Co.'s new vaccine against strains of the human papillomavirus, or HPV.

Perry, a conservative Christian who opposes abortion and stem-cell research using embryonic cells, counts on the religious right for his political base. But he has said the cervical cancer vaccine is no different from the one that protects children against polio.

"The HPV vaccine provides us with an incredible opportunity to effectively target and prevent cervical cancer," Perry said in announcing the order.

"If there are diseases in our society that are going to cost us large amounts of money, it just makes good economic sense, not to mention the health and well-being of these individuals to have those vaccines available," he said.

Merck is bankrolling efforts to pass state laws across the country mandating Gardasil for girls as young as 11 or 12. It doubled its lobbying budget in Texas and has funneled money through Women in Government, an advocacy group made up of female state legislators around the country.

Perry has several ties to Merck and Women in Government. One of the drug company's three lobbyists in Texas is Mike Toomey, Perry's former chief of staff. His current chief of staff's mother-in-law, Texas Republican state Rep. Dianne White Delisi, is a state director for Women in Government.

Perry also received $6,000 from Merck's political action committee during his re-election campaign.

Texas allows parents to opt out of inoculations by filing an affidavit objecting to the vaccine on religious or philosophical reasons. Even with such provisions, however, conservative groups say such requirements interfere with parents' rights to make medical decisions for their children.

The federal government approved Gardasil in June, and a government advisory panel has recommended that all girls get the shots at 11 and 12, before they are likely to be sexually active.

The New Jersey-based drug company could generate billions in sales if Gardasil - at $360 for the three-shot regimen - were made mandatory across the country. Most insurance companies now cover the vaccine, which has been shown to have no serious side effects.

Merck spokeswoman Janet Skidmore would not say how much the company is spending on lobbyists or how much it has donated to Women in Government. Susan Crosby, the group's president, also declined to specify how much the drug company gave.

A top official from Merck's vaccine division sits on Women in Government's business council, and many of the bills around the country have been introduced by members of Women in Government.

End of article.

"Updated:2007-02-03 11:05:53"
"Texas Requires Anti-Cancer Vaccine for Girls"
"By LIZ AUSTIN PETERSON"
"AP"

Photos Title: "Mandatory Vaccine"

"AUSTIN, Texas (Feb. 2) - Bypassing the Legislature altogether, Republican Gov. Rick Perry issued an order Friday making Texas the first state to require that schoolgirls get vaccinated against the sexually transmitted virus that causes cervical cancer."

http://news.aol.com/topnews/articles/_a/texas-requires-anti-cancer-vaccine-for/20070202172109990001?ncid=NWS00010000000001

Morals For A Sane Society - It Is Now Time To Destroy The Lesbianists - Destroying The White House, Balitimore, Maryland, And Virginia, Killing The President Of The United States, Mr. George Walker Bush, Jr., And Sinking The Eastern Coastline Of The United States Into The Atlantic Ocean - Chaos Every Where In My Universe - Bringing An End To The Chaos In My Universe - Surrendering And Repentance - Lesbianists With Non Repenentant Attitudes Who Will Not Surrender - Orders To Kill All Presdential Candidates, Etc. - New Coins Ready And Are The Ever Useful To Us! - Public Nudity And Public Sexaling - What Does The New Moralicity Mean, In Plain Language? Sexaling Is An Absolute 'Good' And An Aboslute 'Right' - Free Action Sexaling Updated: 13-02-07 Rev.a. 00.a PST 23:25

Morals For A Sane Society

To not fuck a person when you can fuck a person is a wicked act.

Not to fuck a man or a woman in the mouthal hole, or in the buttal hole, or to not fuck a woman in the vaginal hole, when you can, and when you are healthy, and when you have the time for it, by refusing, for what ever reason, other than mental illness, or 'gayist' reasons, you are committing a cheap and wicked act, when you refuse to fuck the other person, and use your dick, or your tounge to felate or kiss and tickle, and lick at the ladies' groinal area, and her vaginal cleavage, and vaginal flaps, or labial flaps, or labial tissue, and also her labial throes.

To not suckal a dick or a scrotum or tickle the males' groinal area, with your tounge, or with your fingers, and so forth, when you are able, and ready, and capable, is a cheap and wicked act, whether you are a woman or a man, girl or a boy.

You are given demerit points for not sexaling when you can and are able to sexal, and your time permits it.

To not participate in sexaling when you can participate in sexaling, is a wicked act. To prevent others from sexaling with you, or prevent a person from sexaling with you and your friends, these are both wicked acts.

A kindly and goodly person is a person who sexals all he or she can and who participates in sexaling with people, all he or she can, when ever he or she can to help those people, and one self, to erase the negative karmic markups each person has, and to help to create the wonderful energies that you can create by sexaling, and to change our universe into the nice place we need to change it into for us to live in, prospering with each other, in kindly loving embraces with each other.

If you stand or sit, talking, drinking, eating, with your clothes on, arguing, and discussing football, or baseball, or the local news on TV, or whatever, and you if you are not sexaling, as a result of your actions, when in fact, you could be sexaling, and helping to purify all the people around you, and yourself, as well, you are commiting an evil act, and an immoral act. It is immoral to behave in an uninterested manner, towards sexaling, and towards helping others by sexaling to purify their karmic markups. You are engaging in wicked, unkindly, and evil behavior, by non chalantly staring out the window, at a restaraunt, or in your car, with others around you, thinking about your miscellaneous thoughts, and by your not attempting to purify others, with every ounce of energy you have got, by sexaling with them, in a safe manner.

We do not want you to drive down the road, sexaling, and not paying attention to the traffic, and thereby causing accidents, and there be causeing harm and injury to self and to others, thereby preventing one self and others from their being able to freely mobilate, or move around freely, or ambulate, as they say in modern English, and then freely participate in sexalating activities of fucking, sucking, tounging, massaging the bodies, and the titties, and buttholes of women and girls, and massaging their kissing lips, and their vaginal lips, their facial cheeks, and their butt cheeks, and so forth. You must drive safely, and make it home, to a safe place, where you and your friends can freely sexalate with each other, without others interefereing with you.

A wicked or evil person is one who prevents a person from sexaling, and who destroys or ruins another person, physically, mentally, morally, emotionally, psychologically, or psychically, so that the other person can not participate freely and fully in holy and pure, GODLY sexaling activities.

This type of person who prevents others is a ruinous person, who will invite ruin and disaster to his or her doorsteps, and into his or her life.

There are many ruinous people, who execute others, and who torture, and cause pain, and suffering to others, and who disfigures others. These people who execute others, and who terminate their ability to sexal, prospering with others, making our universe into the kind of nice place we all want to be living in, together with each other, are wicked and evil people.

It Is Now Time To Destroy The Lesbianists

However, when we have a problem of the size and the magnitude of the Lesbianists, that we have, today, in this period of chaos, across my universe, and the Lesbianists' who are toying with humanity, and with all human beings who are not Lesbianists, it is time for us to take action, to prevent them from toying with us, and put a stop to their amusing themselves with their toying with us, any further, and it is now time to destroy them.

"I am Arjuna, a wickedly angry man, and I come to protect those who can not protect themselves. I will kill and thrust my sword and lance through the hearts of men and women who evilly try to prevent people from being prosperously good and bekindly to others."

This is a stanza or sentence from one of my writings, of old. 'Wickedly angry' in this sentence means, outraged, and furious, so much so, every one is scared and afraid of me.

I am 'wickedly angry' and I am here 'to destroy' those who would fuck us up, and ruin our lives, and make our lives miserable, as they toy with us.

My name is GOd, but in my Buddhist scriptures, I am referred to by many names. One of my many names, as I appear to people, in many and various personas, is Arjuna.

I have many sides to my character, as I am GOD, and I am here to protect my children, no matter what the name is people use to refer to me by, and that I am known by, and no matter how it is and no matter who it is among my many children, who I will protect from wicked and ruinous people.

Destroying The White House, Balitimore, Maryland, And Virginia, Killing The President Of The United States, Mr. George Walker Bush, Jr., And Sinking The Eastern Coastline Of The United States Into The Atlantic Ocean

There will not be any further Lesbianists living in Washington DC, or in Baltimore Maryland, or in Northern Virginia, and that vicinity, above ground, and below ground, if some one will be so kind as to place a very large explosives, fuels, chlorine, high heat burning metals fragments, and fracturable rocks bomb, outside the gates to the Washington DC White House, where the number one enemy, Mr. George Walker Bush, Jr., President of the United States, lives, and works, and then detonates that bomb, out side the gates of the White House, where the president lives, currently, and then destroys him, and his White House, a lair for Lesbianists, with multitudes of torture rooms, i.e, lots of them, below and inside of the White House.

You will destroy and kill the President of the United States, Mr. George Walker Bush, Jr., and Mrs. Barbara Bush, Jr. and every one else who lives at 1600 Pennsylvania Ave. Washington DC.

Why are we going to throw all these people into my Epcot Center. Once in my Epcot Center, they can freely sexal with each other and they can earn merit points.

That will help them straighten out their karma, and it will help them to have a nicer life, when they are born as tummy babies. There are many tummy mommies who will match up with these people, and when they come out as tummy babies, they can start their life, with us, out here in my universe with us, again.

Am I a wicked wrongful person for terminating so many people's lifes? No. Why not? Because that is the only way we can over throw the vastly wicked and evil Lesbianists who practically rule my universe, with their perverse friends, and there are many groups of perverse friends, who we are going to get rid of, and send into my Epcot Center, one after another, as we move ahead, in our efforts to clean up our universe, and in our efforts to stop this nonsense of senseless killings and torturings of people, for amusement, and for game playing.

The Washington White House is one of the homes for these perverse people who game play and toy with all human beings who are not Lesbianists, who live on this planet.

We have many Lesbianists to trash, and to say good bye to, before we can begin to get our world, straightened out, and started up again, with a new culture, with new morals.

We will throw out their old cultures, their Lesbianistic cultures, and we will replace them with our new culture, and our new civilization, that is based on my religion, and on the sanctity of sexaling as a common sense value.

Sexaling is a sacred and holy act. Even if you sexal with a kangaroo, or a chimp, it is still a sacred and holy act.

Why is that? It is because every body is made of something, and that something comes from me, GOD. That something from me, is pure and holy, as I am pure and holy. I designed every person, and every animal, and every living being, with sexaling capabilities that allow that pure and holy GODLYNESS to come out once they begin sexaling.

That GODLYNESS begins to radiate out, as each person begins sexaing, and as each animal begins sexaling, and as each living being begins sexaling, eroteming, orgasming, and phlumetting, and it purifies each and every living being, and washes away the karmic markups every person, and every animal, and every living being, has in them, and has stored in the molecules that are stacked up in my universe, out side the boundarary walls that hold this universe up, and that keep us in side of the area we are in, and that keep the rest of my universe standing up, stable, making this a safe place to live, at least, safe in so far as nothing comes crashing down on us.

My kids are expert builders, and it is thanks to them, that we have such a nice and safe, and well built universe to live in. It is also thanks to them, that we have these bodies to live in, and to sexal with, since my kids put us together, one molecule at a time, as we need to have our parts put together, along with all the anmials, and living beings, who are inside of us, that my children also assemble for me, and for us.

What is this GODLYNESS? It is a purifying force, that is of me, and is me. It is inside of every one, and inside of every creature, animal, and living being, in my creation.

This is woven into the fabric of your being, and it is of me, and is always a part of me, and is always connected to me. Since I am always pure, and GODLY, you have a possibility of becomeing pure, and holy, like me.

Right now, we are filthy, and grimey, and all gunked up, with sludge, and residues of our karmic heritage. We have done many things that contribute to who we are, and to what we experience, day to day, and if we are not happy with our life, that is because we have the karmic records and markups that dictate that we must be in this miserable and suffering condition, that we are in, today.

There is always sufferring, and unwholesomeness, in our lives, and around us, every day. There are many wicked things that go on, every day. People perpetrate wicked acts, daily, and they go on, unpunished, for a long time, until their karmic markups begin to add up to sufferings coming out, in that person's life.

Sufferings are your payback for your wicked acts, and they help to keep our universe in balance, as I've spoken about, a little, before.

It may seem unwholesome that I ask you to kill my kids, and put them into my Epcot Center, where they can sexal, and where they can get retrained, and where they can be taught to be nice people, after they are retrained, but my asking you to kill my kids, this is merely an expedient, or a means to an end, and it is permissable, given the circumstances, and given the situation, and given that we are at the begining of our new Age of Gurkian Englightenment.

The result we wish to see by killing them, is an end to the activities of the Lesbianists, and and end to the activities of other people like them, in my universe. The Lesbianists are ruining my universe, and ruining the lives of every body in my universe, and though this was the way things were balanced out, prior to now, we are starting out, with a new method of 'payback' and a new means to balance out the karmic balance book. This is all to be governed by my rules and regulations, that my kids will enforce, in our new, Gurkian Age of Enlightenment, begining about now.

Our killing the Lesbianists, will help to control their ruinous and heinous behavior and activities, and it will help us to get them out of the picture for a while, until we are able to set up our new government, globally, or universal wide, across our universe, in a one universe government, over seeing the activities of all of my kids. It is the only way we have to begin to get our selves straightened out, and onto our new path, that we will follow, for the rest of eternity.

This marks the begining of the Gurkian Age of Engligtenment, and it marks the end of the previous period, or random, or just about nearly random, chaos.

We went through a very long period of decline, untill we got to the period of chaos that we are in, now. This period of chaos, we call, the 'melt down' period.

The 'melt down' period, came after the 'run amuck' period, when my kids began their severely ruinous activities that led to the period of chaos that we are now in.

Chaos Every Where In My Universe

We are going to begin to pull ourselves out of this period of chaos, with the help of my religion, and with our religious activities, and it is going to take us a very long time to pull ourselves out of it, as this 'chaos' is going on every where in my universe.

It will take us a long time to begin to be able to erase our karma enough, based on my religious principals, and the ethics of the Gurkian Age of Englightenment, and our religious activities of sexaling, dancing and excercising, and sexaling in syncopation with the metronome, at one thirty seventh and one fifth, or so, to then some day be able to have erased enough karma, to be rid of, completely, all these horribalistic people, my horribalistic kids, in my universe. When I say, be rid of them, I'm not saying, to trash them, completely. I am saying, we will put a stop to their activities, by changing our karma, and by purifying ourselves with my religion and our religious activities of sexaling, keeping time, in synch with my children, as we sexal, and as we activiate, playing basketball, tennis, or as we swim, or as we pray Nam Myeo Ho Ren Ge Kyeo, and so forth.

Bringing An End To The Chaos In My Universe

We are going to bring an end to the chaos, and to the chaotic behavior, and abberant, ruinous behavior in our universe, as we bring this period of chaos to a close. We will, as we steadily move forward, open the way for the budding and flowering of the Gurkian Age of Enlightenment, and to the budding and flowering of the new age of friendship and loving care, among all of my children, who participate in my religious, social, economic, and karmic revolution, as we sexal with each other, lovingly, and strive to clearify and erase our karmic markups, sexaling, and synching our activities to one thirty seventh and one fifth on the metronome. Later we will fix our metronomes to keep exact pace in synch with my children, and after we fix and reset the timing scale of the metronome, the timing will be one thirty seventh, exactly, on the metronome.

Our sexaling will produce all types of wonderful, purifying energies, that will revive our universe, and that will revive us, and that will help us to reclaim our universe, and that will help us to live, prosperously, and prosperingly in our universe, together, with each other, and with every one of my children, as we reform the bad and naughty ones, who are wicked and unkind to others, and who prevent people from sexaling, together, with each other.

That means, we are going to kill all the bible thumpers, Pat Robertson, Orwell Roberts, Billy Grahm, Tammy Faye, Jim Faye, and all the other Lesbianists of every religious faction, or group, whether they are Lesbianists who are christians, islamists, judaists, shiites, hindus, buddhists, black moslems i.e., afro american black muslims, or whatever.

We are going to destroy them all, all who would try to prevent us from what we are attempting to accomplish, a global, universal wide, government, run by me, GOD/GOd, as I am the Captain of this ship, and then we are going to begin our new age of Enlightenment, hand in hand with each other, and when they come out of my Epcot Center, again, next time, to be born as tummy babies, to tummy mommies, and to tummy daddies, we will teach them the new rules, ethics, and morals of our new universal wide society, and then we will begin again with them, and raise them in accordance with the new rules, laws, regulations, ethics, and morals of our Gurkian Age of Enlightenment, led by me, GOD/GOd.

Surrendering And Repentance

Those who will surrender, will be allowed to be repentantent, and they will be forgiven for their misgiven, misbegotten, and ill minded ways, once they begin sexaling with the rest of us, and participating in our religious, economic, and social revolution, and once they begin following Gurkian laws, rules, ethics, the codes and norms of behavior, and our righteous, and correct morals, acting and exerting one's efforts for the sake of others, never sparing a moment of energies, wastefully on trivial and trite activities of gossipping, mischiefing, or other harmful, and potentially ruinous, wicked, and evil behavior.

Lesbianists With Non Repenentant Attitudes Who Will Not Surrender

Those who will not surrender, we will send to my Epcot Center, as that is the only way we can get them out of the picture, temporairily, so that we can then get things in order, before they return, once again, as tummy babies, into the lives of tummy mommies, and tummy daddies.

Orders To Kill All Presdential Candidates, Etc.

You are hereby authorized by me, GOD, John Francis Ayres, to kill all United States Presdential candidates, including but not limited to, Barack Obama, Hillary Clinton, and Mitt Romney. They are to be executed on sight. Also, you are ordered to kill all non repentent Lesbianists, such as, Vice President Dick Cheney, Tony Blair, Butros Gauley, Oliver North, Colin Powell, Oliver Poindexter, Casper Willard Weinberger, United States Supreme Court Chief Justice John Roberts, Associate Justices, John Paul Stevens, Anthony Kennedy, David Souter, Clarence Thomas, Ruth Bader Ginsburg, Stephen Breyer, Samuel Alito, Antonin Gregory Scalia, Arnold Swarzneggar, Sylvestor Stallone, Robert Deniro, Gary Busey, Kevin Sorbo, Timothy Dalton, Michael Jackson, Matt Damon, Bruce Willis, Mila Jovovich, Peter Jennings, all members of the United States Congress who are Lesbianists, and all other Lesbianists, whether in politics or not, and in whatever government you find them, around the world. There are many Lesbianists in local and metropolitan police departments, and in SWAT Team units, and in fire departments, and in the National Guard units throughout the United States, and Lesbianists own every news media organization, television corporation, cable television corporation, satelite television corporation, major radio station, transportation corporation, chemicals corporation, petroleum corporation, coal mining corporation, as well as every other major corporation around the world. You are to kill every last one of them, and spare no one. We will then destroy every underground city they are hiding in, and force them to surrender. If not, we will kill them all, and I authorize you to do exactly that, kill every last one of them, all thirteen billion plus Lesbianists, hiding under the surface of our planet, or out walking about, pretending to be an ordinary citizen on this planet. Nothing is further from the truth, and you are authorized to kill each and every one of them, and send them all to my Epcot Center, using what ever means available, including my tactical, powerful, home made radiological explosives bombs, i.e., nuclear explosives. Please study my notes on my web site for further details regarding radiological fracturable rocks, and my notes on how to make an explosive weapon to detonate nuclear materials, you can find along beach shorelines, in sediments deposits, and on old mountains, every where on our planet, if you have a geiger counter.

New Coins Ready And Are The Ever Useful To Us!

http://money.aol.com/news/articles/_a/new-dollar-coins-enter-circulation-this/20070211095409990001?ncid=NWS00010000000001

"Updated:2007-02-11 15:20:31"
"New Dollar Coins Enter Circulation This Week"
"By WILL LESTER"
"AP"
"WASHINGTON (Feb. 11) - Maybe Susan B. Anthony and Sacagawea should not take public rejection personally. It's not easy overcoming people's indifference to dollar coins, even those honoring such historic figures."

See also,

http://news.yahoo.com/s/ap/20070211/ap_on_bi_ge/money_ap_poll

The new coins reportedly have many fracturable rocks in them, as the metals used, were mined from deposits of minerals that contain large amounts of fracturable rocks.

They also have high heats and high temperatures burning minerals in them, that will level up your thermal temperatures to near solar temperatures, if grinded up and mixed in, and allowed to ferment, in sour berry juices, slowly, with tiny amounts of salt, and large amounts of raw sugar.

The high heat temperatures, and the energies produced at these higher heat levels, will reach near solar heats energies temperatures, and that is very important for developing the energies needed to wake up every body, in the fracturable rocks - or 'fissile' materials, in Lesbianists' speak, or Lesbianists' mumbo jumbo language - to get them to begin making children and families.

Please see my notes on 'Radiological' crystals cages salts kiddies, and other related energical animals kiddies, of various, and hard to imagine, types, unless you're a kid and unless you have the mental flexibilities and typical mental gymnastics capabilities of a normal child, unhindered by brainwashed thinking and brainwashed patterns of thought the Lesbianists have caged, and closeted in the dark, our brains with.

Public Nudity And Public Sexaling

Public nudity and public sexaling is now a way of life for all, in our, now, Gurkian Age of Enlightenment. We will begin broadcasting live sexaling events, and other entertaining and informational, educational programming,, as soon as I get my new quarters, a unit to live in, where I can eat more properly, sleep more properly, recieve the medical health aides and regroverative formulas, that I need, and where I can practice my religious ceremonies, with others, daily.

The public broadcasting of various informational programing, educational programing, sexaling entertainment programing, sexical, hygenical i.e., sexaling hygene, and sexical educational programing as well as sexical training programing, as well as my religious ceremonial sexaling activities, and my general, more typical day to day, religious ceremonialing, for now, until I get my health up to a level of youthful vigor, and robust wellness, as I religiously interact with my students, and train them, the disciple priestesses, and disciple priests, will all help to set the basis of normative, and expected, social behavior, for all people in our universe, to learn about, now in our Gurkian Age of Enlightenment, so that we can all get along, with one primary set of customs and standard of behavior, and with one primary language for communication, as we will all be sexaling with each other - all of my children who are now just begining to get with the program, at least, anyway, will be sexaling with each other - from now on, and for all eternity.

We need this exposure, as well as alternative programing, for laundering up to, and for begining to expose ourselves to, and learn about, the reality of the universe, my universe, that we live in.

Laundering up to, means, exposing ourselves to the mischievous antics of the Lesbianists, to launder their filthy, garbagical, and tormentuous ways, so that all may learn about them.

This will be coming up, in the near future, possibly, as far as I can determine, any way, after we have the spilling of the sexaling fluids campaign under way for purifying the area where I will be setting up my religious ministry, on the parcel of land, on the north west corner of the intersection at West Tropicana Ave. and South Decature Blud., Las Vegas, Nevada, and possibly on confiscated properties to the north, as well as to the west, for now. This is a public service, informational bulletin, on what you are to expect, in the near future. Prepare yourselves, accordingly.

What Does The New Moralicity Mean, In Plain Language?

Our new moralicity means we are going to learn we can and should sexal with every person, and even with animals, when we have a chance or opportunity to sexal with people and animals, and that we can and should sexal with every person we see, so long as we have a mutual reciprocical understanding of the truth to sexaling, that it is a pure, blessed, and holy act, GOD, me, made possible, to purify you of your blemishes. It is the most significant and powerful way to purify you of your blemishes and karma

Any body who even attempts to impede, to deny, to prevent, or to interfere with, in any way at all, with a person's absolute right to sexal runs counter to Gurkian laws, regulations, codes, ethics, morals, standards, and you will serve jail or prison time, for prohibiting, or interfering, or impeding, or violating in any way, a person's absolute right to free action sexaling, which is, the act of freely chooseing who one wishes to sexal with. DO YOU UNDERSTAND THAT, SOLDIER? GOOD! BECAUSE A "NO SIR!" WOULD BE INAPPROPRITATE AND UNACCEPTABLE!

To learn more on these subjects, swear in, and become a citizen of our country, and begin studying, and working in the many programs my children have for you to study and work in, to score earning points, and to earn a living in our new, Gurkian Age of Enligtenment, where and now that we work, and we pay as we go.

Those who refuse to work, in time, will be required to work, to pay off their debts and to pay off the fees that are owed for the use of my resources, all the molecules in my universe, and all the resources, energical, or otherwise.

Even though I am GOD, in our new system of working in my Gurkian Age of Enlightenment, even I have to pay for the resources that I use, as I work as chief priest of my religion, spiritual director of my universe, and boss of my universe.

I'm the mother and father, the creator of all humans, animals, and living beings, as I've explained, every thing in my creation, and people will begin to understand that, that I am GOD, as they practice my religion, over the years, and over the aeons, and over the millenias.

The people who refuse to work, will be required to work in prisons, sexaling with animals, to produce sexaling energies that will restore the supplies of energies in our universe, as I've mentioned about, before, as they work and learn their new trade of animal husbandry, and animal wifery, in the animal habitry industry, as I've also mentioned about, in earlier notes.

No matter what the age of the person, every person can participate in our Gurkian Age Of Enlightenment, sexaling, dancing, excercising, and syncopating their movements, in rythm, to assist my kids as my kids, work to keep my universe, strong, durile, flexible, safe, and a nice place for every one to live in.

DO YOU UNDERSTAND THAT? YOU HAD BETTER, AS A "NO SIR!" WOULD BE UNACCEPTABLE, SOLDIER! DO YOU HEAR ME? I HOPE YOU DO! NOW, GET TO WORK AND SEXAL TILL YOU DROP, SOLDIER, AND I'M NOT JOKING!

We will build a nice and comfortable, safe place for every one to live, now, in my universe, and we will follow the Gurkian Age of Enlightenment Rules and Regulations, Codes, Morals, Ethics, and behavioral norms, that you are required to live by, now that we are going to become, one, very big, happy, harmonious, in synch, prospering family.

You will not forget to wash out your butty butt holes, and to flush out your vaginas, and your mouths, and to practice proper and health promoting sexaling and love making hygene, with the medical formulas that my children will be providing to you, and that you will pay for, out of your earnings, and they are very reasonably priced, now that I am making every thing available to every one, at a set, yet, flexible, and low cost for the use of my resources, once you citizenize your selfs, and swear in, as a citizen of our new, global, i.e., universal wide, one universe, family of GOD's, that's me, children.

The costs are flexible, in the sense that you do not have to pay, yet, as you will be learning about the ways to work, and you will be learing and preparing your selfs for a new working life, in my universe, for some time, and so we have no hurry to have you pay for the resources you use. We can collect the fees, and costs for resources, in the future, when you are a big money earner, once you learn your new work requirements, for sexaling for a living, as that is the only job opportunity open to every one, and the only job opportunity, that you have a choice about.

My working children, though they do have many different jobs, they have basically the same set up, or arrangements as you now will have, and so you will be joining my children, and you will be working, i.e., sexaling, excercising, aerobically dancing, and so forth, in synch, and in rythm, for me, just as all of my children are doing, at least, those of my children who are able to work, and who are bright and intelligent enough to work for me, to keep my universe, healthy, safe, solid, durile, strong, wholesome, and a nice place to live in.

That means, I have a lot of burnouts kids, and rampant, vagarous, dangerous children, who are not really very bright, and they do not work for me, yet, but they will, in time, regardless of the fact that they may at the present, be abominants kids, or not.

As I've mentioned, all my up until now, non working children, are abominants. What does that mean? It means, they do not give a darn about killing another person. They kill for selfish reasons, and for fun and games, and so forth, and you are all guilty of that, though you may not remember that you killed for fun and games, and for selfish reasons, in previous lifes, in my universe, but you all have, and you are all abominants, of varying degrees.

So, welcome to the Gurkian Age of Enlightenment, and welcome to my workforce.

Captain Off The Bridge.

John Francis Ayres
GOd
And Children

The Gurkian Way Foundation Ministry Institute
johnfrancisayres @ yahoo.com
Google Groups NewsGroup: http://groups.google.com/group/gurkianagegurkianway
Yahoo Groops NewsGroup: http://groups.yahoo.com/group/gurkianway/

John Francis Ayres
5540 West Harmon Ave. Apt. #2004
Las Vegas, Nevada 89103
USA

(702) 894-9518

Chief Priest and Head Abbot
Gurkian Way Foundation Ministry Institute
Cloistered Conservatory And Cloistered Monastery
West Tropicana Ave. and South Decature Blud.
Las Vegas, Nv. 89103

```
From -5943087928241907O
X-Google-Thread: fc2a5,bfd5cef3edcd9bbd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!j27g2000cwj.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: killing cars with high RF?
Date: 14 Feb 2007 16:57:17 -0800
Organization: http://groups.google.com
Lines: 62
Message-ID: <1171501037.624273.324630@j27g2000cwj.googlegroups.com>
References: <1171322270.786928.164360@a75g2000cwd.googlegroups.com>
   <1171411354.056845.264180@v45g2000cwv.googlegroups.com>
   <1171420263.994620.274520@a34g2000cwb.googlegroups.com>
   <no.spam-5A4376.08312614022007@news.verizon.net>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1171501044 22413 127.0.0.1 (15 Feb 2007 00:57:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 15 Feb 2007 00:57:24 +0000 (UTC)
In-Reply-To: <no.spam-5A4376.08312614022007@news.verizon.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-td06.proxy.aol.com[CFC8719B] (Prism/1.1.9), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
```

```
Complaints-To: groups-abuse@google.com
Injection-Info: j27g2000cwj.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:9038

On Feb 14, 5:31=EF=BF=BDam, Al <no.s...@wanted.com> wrote:
> =A0"LenAnder...@ieee.org" <LenAnder...@ieee.org> wrote:
> > On Feb 13, 4:02?pm, rkmr15...@yahoo.com wrote:
> > > On Feb 12, 6:17 pm, "KE5MBX" <nelson.bl...@gmail.com> wrote:
>
> > > > Hi,
> > > > What's all this business I hear people talking about blasting peopl=
e's
> > > > car stereos or killing cars altogether with high-power RF? I run 2m,
> > > > 10m, and 11m in my jeep and I'd like to sort out the fact from the
> > > > legend and find out what kind of power I can use without risking
> > > > damage to my jeep or cars around me. =A0At what power level is fron=
t-end
> > > > overload to a nearby radio likely? At what power level is damage
> > > > likely, and to what componets?
>
> > > > I am currently using only 50 watts on a 5/8 wave (2m), 25w on a 1/4
> > > > wave (10m), legal 4w on a 1/4 wave (11m)
>
> > > > Thanks,
> > > > Nelson KE5MBX
>
> > > There are many times when "high" power has disrupted other devices.
> > > The early car computers have been know to shut down with 100 watts of
> > > VHF. Worked on a police car that the engine would shut off when over
> > > 80 mph and key the radio.
> > > =A0A friend would be taking on his 1KW mobile as he pulled into his
> > > driveway. He would find his base radio receiver front end blown. Took
> > > three times to think it through and as he should have been doing,
> > > switch his base antenna (dipole over the driveway) to ground, when not
> > > in use.
>
> > =A0 =A0Isn't that just ordinary RFI/EMI that can happen in a house
> > =A0 =A0environment? =A0:-)
>
> > =A0 =A0Don't expect auto makers to RFI-proof their wiring without an
> > =A0 =A0extra kilodollar add-in to the sticker price.
>
> > =A0 =A0LenAnder...@ieee.org
>
> In Montana, there was a Sage radar, 5MW pulse power, which would zap
> your car radio when the beam crossed it. Fortuneatly this was in the
> 60's before the electronics control of your car's engine. The solution
> was to tilt the radar antenna up 5 deg. so both the town and the highway
> that passed in front of it were not impacted. Even so, I have tape
> recordings from that era which have a little zap in the every 12 secs as
> the lobes passed through town when the antenna rotated. Oh yes, and
> before the antenna was tilted, flourescent lights would also blink.
```

The flourescent lights blinking on by themselves and buzz tones in the 16 mm motion picture projectors' audio were common at the Radar Basics classrooms of Fort Monmouth, NJ, in 1952. The high-bay where 1 MW peak pulse search radars were set up were constantly annoying the instructors across the street in the classrooms. <shrug> Got annoying to the students too.

But, none of that was in the league of "frying auto electronics" nor any real danger to humans at a half block distance.

LenAnderson@ieee.org

```
From 2792109904475695893
X-Google-Thread: fc2a5,bfd5cef3edcd9bbd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!l53g2000cwa.googlegroups.com!not-for-mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: killing cars with high RF?
Date: 14 Feb 2007 16:59:25 -0800
Organization: http://groups.google.com
Lines: 64
Message-ID: <1171501165.489871.177240@l53g2000cwa.googlegroups.com>
References: <1171322270.786928.164360@a75g2000cwd.googlegroups.com>
   <iLGAh.33746$E02.13444@newsb.telia.net>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1171501170 15991 127.0.0.1 (15 Feb 2007 00:59:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 15 Feb 2007 00:59:30 +0000 (UTC)
In-Reply-To: <iLGAh.33746$E02.13444@newsb.telia.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-ntc-td06.proxy.aol.com[CFC8719B] (Prism/1.1.9), HTTP/1.1 cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: l53g2000cwa.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:9039
```

On Feb 14, 8:26=EF=BF=BDam, "Hairy Lethal" <oei...@hootmail.com (spellin mistaik)> wrote:

> > What's all this business I hear people talking about blasting people's

```
> > car stereos or killing cars altogether with high-power RF? I run 2m,
> > 10m, and 11m in my jeep and I'd like to sort out the fact from the
> > legend and find out what kind of power I can use without risking
> > damage to my jeep or cars around me. =A0At what power level is front-end
> > overload to a nearby radio likely? At what power level is damage
> > likely, and to what componets?
>
> > I am currently using only 50 watts on a 5/8 wave (2m), 25w on a 1/4
> > wave (10m), legal 4w on a 1/4 wave (11m)
>
> About 2 years ago I was in a rather frivolous mood, brought about by a dr=
op
> of absolute vodka. I wondered just how certain things reacted when put in=
 a
> 750 Watt microwave oven.
>
> I first tried a new way of burning a CD. Amid sparks and a pyrotechnic
> display that appealed to my sense of pissedness, it sort of got crazy-pav=
ed.
> After about 20 seconds I had to switch off the microwave because of the
> stench.
>
> Then I turned to more "electronic" things. A Fujian MP3 player bit the du=
st
> instantly. Basically there was one huge "woooooffff!", then the PCB set fi=
re
> to the plastic case after about 30 seconds.
>
> Then I tried an old hamradio rig. It was an old Trio (Kenwood in the USA)
> 2200GX, crystal-controlled rig, with a rubber-duck antenna, and a battery
> compartment that had not held batteries for several years. I put it in as=
 it
> was, but without the mic. Battery door open, rubber-ducky antenna on.
>
> It sat there for about 15 seconds before anything happened, then the front
> panel sparked a bit and caught fire. The front panel looked similar to the
> CD, but a bit more melted-down, and the knobs had changed to a totally new
> shape. But apart from that, the radio itself still worked fine after a 30
> second 750W cook. It just looked more of a mess then it did originally.
>
> Out of interest I tested it. I was expecting RF to get in the antenna and
> coarse its way through the PCB, but no! The RF sensitivity was 1.25uV PD =
for
> 20dB sinad. Perhaps that was 10dB down, but it was still quite useable The
> TX was still delivering 1.5 Watts.
>
> I took off the case and tried again, and THAT killed it for sure. After o=
nly
> 10 seconds the PCB "whooffed", with loads of sparks and spitting.
>
> But the point is that you cannot couple more power into a rig than that,
> even with the cover on. The antenna was connected, and 750 W did not kill=
 it
```

> instantly, as expected. These rigs are far more resilient than one would
> imagine.

Remember: All electronics works by means of smoke. If
the smoke leaks out, it won't work...

LA

```
From 7904749025412517229
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m58g2000cwm.googlegroups.com!not-for-
mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW Bands
Date: 14 Feb 2007 17:23:40 -0800
Organization: http://groups.google.com
Lines: 30
Message-ID: <1171502620.168137.27320@m58g2000cwm.googlegroups.com>
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
   <z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net>
   <45D25B20.1090806@worldnet.att.net>
   <86Wdna-DDdz140_YnZ2dnUVZ_rGinZ2d@bright.net>
   <slrnet5klu.l16.gsm@cable.mendelson.com>
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Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171502636 26262 127.0.0.1 (15 Feb 2007 01:23:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 15 Feb 2007 01:23:56 +0000 (UTC)
In-Reply-To: <slrnet5klu.l16.gsm@cable.mendelson.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m58g2000cwm.googlegroups.com; posting-host=75.117.147.70;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:9040
```

On Feb 14, 4:21 am, g...@mendelson.com (Geoffrey S. Mendelson) wrote:
> Scott wrote:
> > Oops, forgot about 60M. Not sure about 6 and 2 being the only bands
> > with a CW only portion. Maybe a better choice of words would be
> > "non-voice portions" since it appears that the HF bands still have
> > segments designated for rtty and data. ???
>
> IMHO that was a mistake. It was because the U.S. voice portions of 80m and 40m
> where inacessable to ITU zone 1 hams. So putting the data and rtty in them
> would have slowed down their growth.

>
> Tune across the high end of the old 80m and 40m CW bands, and you can
> see what I mean. from 7100 down, it's almost unusable due to digital
> signals, some nights as low as 7050. The same thing with 3850 which is
> the top end of my 80m band.
>
> Yes, we now have 7100-7200, but it's not much good for DX yet. It's still
> filled with high power SWBC stations who have no intention of moving.
> When they are off the air, there is no propigation. :-(
>
> To veer this discussion anywhere near the topic. If you asked because
> you are thinking of building a CW only rig, don't worry, it will be
> usefull for a long time to come.

Well, some of the schematics I've been looking at are for CW rigs.
(Glowbug rigs, in particular.) You have me wondering, though - I
thought digital radio used the same bands as commercial radio?

Ralph Glatt

From 6601418611002701689
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 14 Feb 2007 19:48:38 -0600
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
<z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net>
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DDdz140_YnZ2dnUVZ_rGinZ2d@bright.net>   <slrnet5klu.l16.gsm@cable.mendelson.com>
<1171502620.168137.27320@m58g2000cwm.googlegroups.com>
Subject: Re: CW Bands
Date: Wed, 14 Feb 2007 20:48:14 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <QeGdnSZGoMZrJk7YnZ2dnUVZ_t2tnZ2d@comcast.com>
Lines: 41
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X-Trace: sv3-P2RCJ6ahvjZ8vI49Qkk+KX56wx/Fb+Zo0yPkw0kQvXLNPKvba2+azSc47Uz/
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2jwEBu6TxW4MhoSJvXqRWfu+YAzqqsidtwDcUNmdNSH0pEiBdWnPly/U1veSjyjHPdIw!
KSyM8lvj+4kpQpU=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net

X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9041

"julian814" <julian814@hotmail.com> wrote in message
news:1171502620.168137.27320@m58g2000cwm.googlegroups.com...
> On Feb 14, 4:21 am, g...@mendelson.com (Geoffrey S. Mendelson) wrote:
>> Scott wrote:
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>>
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> (Glowbug rigs, in particular.) You have me wondering, though - I
> thought digital radio used the same bands as commercial radio?
>
> Ralph Glatt
>

Nope, amateur radio digital transmissions use amateur radio bands.

Dee, N8UZE

From 4340697817819142749
X-Google-Thread: fc2a5,839a1df59661c964
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!not-for-mail
From: Dr. Anton T. Squeegee <SpammersBlow@dev.null>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ship's Tour Of My Universe To Begin - Call To Arms! Duty Stations!
Fire When Ready! Cease Fire Procola! Pt. I/III
Date: Wed, 14 Feb 2007 23:28:26 -0800
Message-ID: <MPG.203dab77af3b27d498972d@192.168.42.197>
References: <1171476701.908390.170580@k78g2000cwa.googlegroups.com>
Organization: Blue Feather Technologies
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-15"
Content-Transfer-Encoding: 7bit
X-Newsreader: MicroPlanet Gravity v2.60
Cache-Post-Path: gutenberg.bluefeathertech.com!unknown@seleth.bluefeathertech.com
X-Cache: nntpcache 3.0.2 (see http://www.nntpcache.com/)
Cache-Post-Path: bubbleator.drizzle.com!unknown@gutenberg.bluefeathertech.com
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
Lines: 15
X-Complaints-To: abuse@csolutions.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:9042

In article <1171476701.908390.170580@k78g2000cwa.googlegroups.com>,
johnfrancisayres@rock.com (known to some as johnfrancisayres@rock.com)
scribed...

<off-topic drivelectomy>

Wow... Nothing left. What a shock (not!)

PLONK!

--
Dr. Anton T. Squeegee, Director, Dutch Surrealist Plumbing Institute
(Known to some as Bruce Lane, KC7GR)
http://www.bluefeathertech.com -- kyrrin a/t bluefeathertech d-o=t calm
"Salvadore Dali's computer has surreal ports..."

From -3506557106177324732
X-Google-Thread: fc2a5,3d31c656dfacf15f,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news2.volia.net!newsfeed01.sul.t-online.de!t-online.de!news.csl-gmbh.net!feeder.news-service.com!
138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-03!sn-ams!sn-feed-ams-01!sn-post-ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "John Baxter" <mailjohnbaxter@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Kanga kits in UK
Date: Thu, 15 Feb 2007 10:59:21 -0000
Organization: Posted via Supernews, http://www.supernews.com

Message-ID: <12t8f8hieolt13f@corp.supernews.com>
Reply-To: "John Baxter" <mailjohnbaxter@gmail.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Complaints-To: abuse@supernews.com
Lines: 16
Xref: g2news2.google.com rec.radio.amateur.homebrew:9043

Hi,

Can anyone tell me where I can obtain Kanga kits in the UK ? I understand that G3ROO has stopped trading in the UK.

I was looking to build a ONER, OXO and SUDDEN 2. I know I could buy the components seperately but I liked the idea of the kits with printed PCBs.

Perhaps the kits are available elsewhere, but I do want to avoid paying as much in postage as I would for the kits !

Many thanks,

73 de John

From -3699729696137645589
X-Google-Thread: fc2a5,6a8ef56403cca83a,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!news.astraweb.com!border2.newsrouter.astraweb.com!sn-xt-sjc-05!sn-xt-sjc-09!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "John Baxter" <mailjohnbaxter@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: German suppliers of components and wire
Date: Thu, 15 Feb 2007 11:01:48 -0000
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12t8fd4or299t64@corp.supernews.com>
Reply-To: "John Baxter" <mailjohnbaxter@gmail.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Complaints-To: abuse@supernews.com
Lines: 11
Xref: g2news2.google.com rec.radio.amateur.homebrew:9044

Hi,

Can anyone suggest a good supplier of electronic components and 300 ohm feeder in Germany, ideally that has a website from which I can order. I am only wanting small quantities for home construction.

Many thanks

John

```
From -5466292602569320623
X-Google-Thread: fc2a5,6a8ef56403cca83a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 15 Feb 2007 12:05:20 -0600
Date: Thu, 15 Feb 2007 19:06:05 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla Thunderbird 1.0.2 (X11/20050322)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: German suppliers of components and wire
References: <12t8fd4or299t64@corp.supernews.com>
In-Reply-To: <12t8fd4or299t64@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <jNydnXthQ7t8PUnYnZ2dnUVZ8qCqnZ2d@pipex.net>
Lines: 12
NNTP-Posting-Host: 71.107.26.158
X-Trace: sv3-w7C3XuFtMsJNx1U1v2lYWVBNQtXIeCqgCt+pvh6pzPtgM4sK8Gama25D9/
TgoigkQqtIUeMtI0TQ4Y5!y+a2diNYqO8fOwJqWelwo0tNCx7t9O+9/LsWdJh3hw7xkl/
aScxU0CL+QcVyDATPqwa18PjjVip5!eU5X4PQYWIhgMRNBcRzyThp2rw==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9045
```

> Can anyone suggest a good supplier of electronic components and 300 ohm
> feeder in Germany, ideally that has a website from which I can order. I am
> only wanting small quantities for home construction.

=============================

Conrad   for general electronic components(similar to Maplins in the UK)

Kusch   for 300 and 450 Ohms balanced feeder ,coax, coax connectors, etc
Kusch is a family company visiting most AR-rallies/fleamarkets in D and NL

Both companies have web sites

Frank   KN6WH / GM0CSZ

From -4125948526806848702
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
bigfeed3.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!
news.bellsouth.net!bignews7.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW Bands
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
<z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net> <45D25B20.1090806@worldnet.att.net>
In-Reply-To: <45D25B20.1090806@worldnet.att.net>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 25
Message-ID: <bx6Bh.18315$p9.3093@bignews7.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
enggpaojkliedbjjdbdpiflmbcekedmfhojhikkbagflhcboefkedlllnpaabikapofgjdekkhnlmnnhln
deomkaddefipfofijdegaipemnimehncmhikkkoodekahmhokoghpefjohpgbmhbfbbgdbemghfool
NNTP-Posting-Date: Thu, 15 Feb 2007 19:03:19 EST
Organization: BellSouth Internet Group
Date: Thu, 15 Feb 2007 19:03:27 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:9046

John Siegel wrote:
>
>
> Scott wrote:
>> I would have to say yes, since CW has always been allowed on ALL
>> amateur bands, from the bottom end to the top end of each.
>>
>> Scott
>> N0EDV
>>
>> julian814 wrote:
>>
>>> Now that code has been dropped from the license requirement, what will
>>> happen to the CW frequencies? Will people still be able to use Morse
>>> Code on them?
>>>

>>>
>>> Ralph Glatt
>>>
> FYI - THat is no longer 100% true since the spot frequencies on 60M are
> USB only.
> And 6 and 2 are the only places with CW only bands.
>

Wonder if A2 operation with USB tone modulated code would be legal on these bands?

From 2775125295625267142
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!198.186.194.247.MISMATCH!news-out.readnews.com!news-
xxxfer.readnews.com!news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW Bands
Date: Fri, 16 Feb 2007 10:00:07 +0000 (UTC)
Organization: MGT Consulting
Lines: 25
Message-ID: <slrnetavn3.cf.gsm@cable.mendelson.com>
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
<z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net> <45D25B20.1090806@worldnet.att.net>
<bx6Bh.18315$p9.3093@bignews7.bellsouth.net>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-138-170-64.bb.netvision.net.il
X-Trace: marvin.misty.com 1171620007 6093 89.138.170.64 (16 Feb 2007 10:00:07 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Fri, 16 Feb 2007 10:00:07 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:9047

ken scharf wrote:
> Wonder if A2 operation with USB tone modulated code would be legal on
> these bands?

Probably not. Unless of course, you retitled it "pentature encoded tone shift digital modulation". Morse code is really 5 different bits of information, dit, dah, between character space, between letter space, and a between word/empty space. If you count the space between messages as a seperate data point, then it becomes hexature encoded.

Bear in mind Morse code was designed to be used in a mechanical punched tape sending device. It was never meant to be sent or received by hand. It was just by accident that an operator found out he could copy the message directly into his head by listening to the sound of the pen.

Vail, not Morse, replaced the tape sender with a hand key, and dropped the pen from the receiver.

Like "diHydrogen monOxide", it could become popular on the Internet.

Geoff.
--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
IL Voice: (07)-7424-1667 Fax ONLY: 972-2-648-1443 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/

```
From 7247536213791268239
X-Google-Thread: fc2a5,66d4284597e89408,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p10g2000cwp.googlegroups.com!not-for-
mail
From: "hxc98@yahoo.com" <hxc98@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Aprspoint 4.2 released!
Date: 16 Feb 2007 08:47:21 -0800
Organization: http://groups.google.com
Lines: 17
Message-ID: <1171644440.880672.118920@p10g2000cwp.googlegroups.com>
NNTP-Posting-Host: 58.19.33.76
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171644470 16218 127.0.0.1 (16 Feb 2007 16:47:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 16 Feb 2007 16:47:50 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.2; SV1; .NET CLR
1.1.4322; Alexa Toolbar),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p10g2000cwp.googlegroups.com; posting-host=58.19.33.76;
   posting-account=qkd21QwAAAAs0AsHsbNsv0PdNKEViQPM
Xref: g2news2.google.com rec.radio.amateur.homebrew:9048
```

APRSPoint 4.2 is uploaded,

1. This new version has improved tracking support by adding separate
track lists for stations to be tracked over either RF or TCP link.

2.It also added a new reject field in the filter dialog, where you can
specify a list of stations to filter out using multiple strings that
can contain wild card characters.

3. It allows you to selectively remove stations from the tree view
list. This combined with improved filter operation, enables you to
dynamically adjust what gets displayed on the map.

Please visit http://www.aprspoint.com for details and download.

Thanks, Michael KF6ZDM

```
From 1842800420092671766
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s48g2000cws.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW Bands
Date: 16 Feb 2007 17:10:35 -0800
Organization: http://groups.google.com
Lines: 42
Message-ID: <1171674635.846476.313740@s48g2000cws.googlegroups.com>
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
   <z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net>
   <45D25B20.1090806@worldnet.att.net>
   <bx6Bh.18315$p9.3093@bignews7.bellsouth.net>
   <slrnetavn3.cf.gsm@cable.mendelson.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171674665 27100 127.0.0.1 (17 Feb 2007 01:11:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 17 Feb 2007 01:11:05 +0000 (UTC)
In-Reply-To: <slrnetavn3.cf.gsm@cable.mendelson.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-te10.proxy.aol.com[CFC87232] (Prism/1.1.9), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: s48g2000cws.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:9049
```

On Feb 16, 2:00?am, g...@mendelson.com (Geoffrey S. Mendelson) wrote:

> ken scharf wrote:
> > Wonder if A2 operation with USB tone modulated code would be legal on
> > these bands?

> Bear in mind Morse code was designed to be used in a mechanical punched
> tape sending device. It was never meant to be sent or received by hand.
> It was just by accident that an operator found out he could copy the message
> directly into his head by listening to the sound of the pen.

Ahem...small disagreement there. Morse's original "code" was
all numeric and the receiver was an inked trace on paper tape.

> Vail, not Morse, replaced the tape sender with a hand key, and dropped
> the pen from the receiver.

Alfred Vail's family was Morse's financial benefactor. The Vail locomotive works tried to get the ink pen receiver to work reliably and couldn't. At the same time Morse was having trouble organizing his all-number "code" to cover enough English language common phrases. According to the Vail family website information, Alfred Vail suggested to Morse that the whole English alphabet should be part of the "code." Alfred suggested copying the frequency of letters of a printer's type case as a way to make the most-used characters take the least time to send.

Eventually, long after the hand key and acoustic "sounder" were in common use, the ink-printed-on-paper-tape (or drum) came back for very long circuits such as under-ocean lines.

> Like "diHydrogen monOxide", it could become popular on the Internet.

Good stuff! I have a couple glasses of dihydrogen monoxide every day! :-)

I even shower with it! :-)

LenAnderson@ieee.org

```
From 771938900796400059
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews6.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW Bands
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
<z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net>
<45D25B20.1090806@worldnet.att.net>   <bx6Bh.18315$p9.3093@bignews7.bellsouth.net>
<slrnetavn3.cf.gsm@cable.mendelson.com>
<1171674635.846476.313740@s48g2000cws.googlegroups.com>
In-Reply-To: <1171674635.846476.313740@s48g2000cws.googlegroups.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
```

```
Lines: 50
Message-ID: <v7EBh.13287$B8.4679@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcbonccmlndfkdobopcagnellbcodpkhgadmgg
pkldhnmfidnijooibnlkmgfjnmdlcjpnaffidobadcejjogcmgljlmellobmdkonobelcbknckakif
NNTP-Posting-Date: Sat, 17 Feb 2007 09:16:59 EST
Organization: BellSouth Internet Group
Date: Sat, 17 Feb 2007 09:17:07 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:9050

LenAnderson@ieee.org wrote:
> On Feb 16, 2:00?am, g...@mendelson.com (Geoffrey S. Mendelson) wrote:
>> ken scharf wrote:
>>> Wonder if A2 operation with USB tone modulated code would be legal on
>>> these bands?
>
>> Bear in mind Morse code was designed to be used in a mechanical punched
>> tape sending device. It was never meant to be sent or received by hand.
>> It was just by accident that an operator found out he could copy the message
>> directly into his head by listening to the sound of the pen.
>
>    Ahem...small disagreement there.  Morse's original "code" was
>    all numeric and the receiver was an inked trace on paper tape.
>
>> Vail, not Morse, replaced the tape sender with a hand key, and dropped
>> the pen from the receiver.
>
>    Alfred Vail's family was Morse's financial benefactor.  The Vail
>    locomotive works tried to get the ink pen receiver to work
>    reliably and couldn't.  At the same time Morse was having
>    trouble organizing his all-number "code" to cover enough
>    English language common phrases.  According to the Vail
>    family website information, Alfred Vail suggested to Morse that
>    the whole English alphabet should be part of the "code."
>    Alfred suggested copying the frequency of letters of a printer's
>    type case as a way to make the most-used characters take
>    the least time to send.
>
>    Eventually, long after the hand key and acoustic "sounder"
>    were in common use, the ink-printed-on-paper-tape (or drum)
>    came back for very long circuits such as under-ocean lines.
>
>
>> Like "diHydrogen monOxide", it could become popular on the Internet.
>
>    Good stuff!  I have a couple glasses of dihydrogen monoxide
>    every day!  :-)
>
>    I even shower with it!   :-)
>
>    LenAnderson@ieee.org
```

```
>
>
Also the "Morse" code invented by the man of the same name is NOT the
same cypher (it's NOT really a code!) that we hams use over the air.  WE
use what's actually called the "international radio telegraph" cypher
(code).  True Morse has characters based on dots, dashes, long dashes,
and variable spaces!  Also as sent over the land line the operator had
to listen for the gap between clicks NOT the sound of the clicks!  Try
that folks!


From 8545930062440662021
X-Google-Thread: fc2a5,a76274d344865ea2
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews7.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted: Airdux Coil Stock
References: <pan.2007.01.31.03.17.37.983109@sbcglobal.net>
<1170265997.352770.89020@v45g2000cwv.googlegroups.com>
In-Reply-To: <1170265997.352770.89020@v45g2000cwv.googlegroups.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 17
Message-ID: <3rGBh.19066$p9.10572@bignews7.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
enggpaojkliedbjjdbdpiflmbcekedmfhojhikkbagflhcboaihfjohfandnnoihmclppeekcpnchnjcgg
pkldhnmfidnijooibnlkmgfjnmdlcjpnaffidobadcejjocjiinkclhcigelfhncgkapfhiepcigoo
NNTP-Posting-Date: Sat, 17 Feb 2007 11:54:23 EST
Organization: BellSouth Internet Group
Date: Sat, 17 Feb 2007 11:54:31 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:9051

Tim Shoppa wrote:
> On Jan 30, 10:15 pm, Steve <kc5...@sbcglobal.net> wrote:
>> Hello,
>> I'm needing some 3" coil stock 8tpi and some 2 1/2' at 8tpi.
>
> Not cheap, but the horse's mouth is:
>
>   http://www.bwantennas.com/coils/aduxacr.htm
>
> I have been getting glass-epoxy or phenolic tubes (good place: www.mcmaster.com
> ) and winding mine from rod/wire lately (silver plated in some
```

> cases... learning how to silver plate myself too!).
>
> Tim.
>

Easy way to silver plate wire....
Dip in well used photo fixer.

```
From -4115525126604185951
X-Google-Thread: fc2a5,87fa50249afb23ed
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 17 Feb 2007 13:53:01 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1171383280.535643.3860@v45g2000cwv.googlegroups.com>
<877iulop6b.fsf@gmail.com>
Subject: Re: Simple wideband audio amplifier circuit?
Date: Sat, 17 Feb 2007 13:53:08 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <q6ednYWX8tyDwErYnZ2dnUVZ_rmdnZ2d@comcast.com>
Lines: 48
NNTP-Posting-Host: 71.228.3.96
X-Trace: sv3-lMmoCIZQejaH5umNADAxfCEE/
vPTOyCKS9X8gee7SwT5QHiU6BweEmfK9H0VQPBMSI6x2kVh9VkSc50!uKu/KajuIyoxVcMFpaVA9/
VnuHKO/RP6aLwZ/Vhnx09ccvObvoWdDbbv7A4bL4KRXCVxYiG+vgLd!jfTIK/RZNtWy
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9052
```

Also, don't forget that the sampling rate of the sound card doesn't have anything to do with the preamlifier stage that you are trying to build. A stage that is limited to the audio range will be fine. Any of the higher end op-amps will be fine.
The Analog Devices OP275 is a good choice, because of its fast settling time.

Pete

"Lawrence Statton XE2/N1GAK" <yankeeinexile@gmail.com> wrote in message news:877iulop6b.fsf@gmail.com...
> mcclements@gmail.com writes:

>
>> Hello,
>>
>> I have been looking around the web for a complete kit for an audio
>> amplifier, for a circuit that I am building that needs to have a wide,
>> flat as possible frequency response (0Hz - 100Khz). Need to be able to
>> bring 400mV up to line level. I have seen several kits based on a
>> LM386, but I can't find any specs that show that circuit is reliable
>> beyond 20hz - 20Khz. I am a beginner, so keep that in mind when
>> responding.
>>
>> -Scott, WU2X
>>
>
> Who's definition of line level? For consumer audio gear, line level
> is 0.1 milliwatt into 1000 ohms, or roughly 320mVrms. If your source
> impeadance is sufficiently low (most gear has input impeadance in the
> several-thousand ohm range), you're done.
>
> If you need it for studio gear, then you've got to get your singal up
> to 2.5 milliwatts into 600 ohms, or about 1.2 Vrms, and any of a
> million op-amps can give you the gain you need to reach those levels.
>
> The ubiquitous 741 is cheap and easy to use, but the now 40-year-old
> design is kinda noisy.
>
> I cannot imagine that a 386 would be a good match just because it's
> designed for much lower output impeadance and much MUCH higher levels.
>
> --
> Lawrence Statton - lawrenabae@abaluon.abaom s/aba/c/g
> Computer software consists of only two components: ones and
> zeros, in roughly equal proportions.   All that is required is to
> place them into the correct order.

```
From -2760605577180701627
X-Google-Thread: fc2a5,bb8bdb3084c3c267,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!
trndny07.POSTED!08184e13!not-for-mail
From: "LEWIS LIPSON" <ljl160@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Need audio coupler xfmr National S101 or similar
Lines: 5
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
```

```
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <AbZBh.272$tQ.121@trndny07>
Date: Sun, 18 Feb 2007 14:14:56 GMT
NNTP-Posting-Host: 141.149.175.157
X-Complaints-To: abuse@verizon.net
X-Trace: trndny07 1171808096 141.149.175.157 (Sun, 18 Feb 2007 09:14:56 EST)
NNTP-Posting-Date: Sun, 18 Feb 2007 09:14:56 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:9053

Building a regen rcvr for fun. Need the audio coupler transformer/ national
S101 or similar. Any help or tips appreciated. Tnx Lew K1NDV
E mail LJL160@verizon.net




From 5028107883205524064
X-Google-Thread: fc2a5,bb8bdb3084c3c267
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!elnk-atl-nf1!newsfeed.earthlink.net!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews4.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need audio coupler xfmr National S101 or similar
References: <AbZBh.272$tQ.121@trndny07>
In-Reply-To: <AbZBh.272$tQ.121@trndny07>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 11
Message-ID: <TLZBh.14864$6a.12015@bignews4.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
npbhgpngjbkmjfegdbdpiflmbcekedmfhojhikkbagflhcboodcjfnieebpmcppkgnellbcodpkhgadmgg
pkldhnmfidnijoekgnmodnnmghgokdpnaffidobadcejjoboidcmopbjlbefonblapglmcbibngiph
NNTP-Posting-Date: Sun, 18 Feb 2007 09:53:39 EST
Organization: BellSouth Internet Service
Date: Sun, 18 Feb 2007 09:58:48 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:9054

LEWIS LIPSON wrote:
> Building a regen rcvr for fun. Need the audio coupler transformer/ national
> S101 or similar. Any help or tips appreciated. Tnx Lew K1NDV
> E mail LJL160@verizon.net
>
>
```

If this is the one I think it is, they are as rare as hen's teeth. Look for a high value choke (50H or more) or connect the primary and secondary of an audio interstage transformer in series-aiding. Couple with a .05 uf capacitor and use a suitable grid resistor in the next stage (100k-1meg ohm).

From -6153849275793622103
X-Google-Thread: fc2a5,bfd5cef3edcd9bbd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "john graesser" <graesser@tca.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: killing cars with high RF?
Date: Sun, 18 Feb 2007 10:00:01 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12tgtubnv7v26de@corp.supernews.com>
References: <1171322270.786928.164360@a75g2000cwd.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
X-Complaints-To: abuse@supernews.com
Lines: 35
Xref: g2news2.google.com rec.radio.amateur.homebrew:9055

"KE5MBX" <nelson.blaha@gmail.com> wrote in message
news:1171322270.786928.164360@a75g2000cwd.googlegroups.com...
> Hi,
> What's all this business I hear people talking about blasting people's
> car stereos or killing cars altogether with high-power RF? I run 2m,
> 10m, and 11m in my jeep and I'd like to sort out the fact from the
> legend and find out what kind of power I can use without risking
> damage to my jeep or cars around me. At what power level is front-end
> overload to a nearby radio likely? At what power level is damage
> likely, and to what componets?

A couple of years back there were cars that included the caveat that any transmitter installation would void the warrenty. Now that everyone and their brother uses their cell phones in the car I guess they don't put that notice in anymore.

Back in the mid 1970's I was in NROTC in college. There it was mentioned that an EA6B (the electronics warfare version of an A6) could pulse its radar and fry the electronics of a plane in the cone if it was close enough (under 1 mile if I recall correctly). Anecdotal stories like that are the source of electronic killing rf. That involved a multi megawatt microwave pulse, not something you would normally see in an amatuer installation.

Living in an apartment, years ago I tried putting a 10 meter dipole across

the ceiling in a stealth installation, I shut down when the residents above
me complained that their tv would scramble while I tried running psk31.

You may not blow out their electronics but can definately interfere with
them if they are close enough.

thanks, John.
KC5DWD

```
From -1709887930711111944
X-Google-Thread: 10d85e,cfa01e565e46a6bb,start
X-Google-Thread: 10cf58,cfa01e565e46a6bb,start
X-Google-Thread: fc2a5,cfa01e565e46a6bb,start
X-Google-Thread: fcc6e,cfa01e565e46a6bb,start
X-Google-Thread: 1021cd,cfa01e565e46a6bb,start
X-Google-Attributes: gid10d85e,gid10cf58,gidfc2a5,gidfcc6e,gid1021cd,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr14.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.anten
na,comp.sys.ibm.pc.soundcard.tech
Subject: Good sound card & software ?
Lines: 10
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
NNTP-Posting-Host: 70.142.38.204
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr14.news.prodigy.net 1171820884 ST000 70.142.38.204 (Sun, 18 Feb
2007 12:48:04 EST)
NNTP-Posting-Date: Sun, 18 Feb 2007 12:48:04 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
[[PA@SJDZBUYR_PXGZID]_\@VR]^@B@MCPWZKB]MPXH@ETUCCNSKQFCY@TXDX_WHSVB]ZEJLSNY\^J[CUV
SA_QLFC^RQHUPH[P[NRWCCMLSNPOD_ESALHUK@TDFUZHBLJ\XGKL^NXA\EVHSP[D_C^B_^JCX^W]CHBAX]
POG@SSAZQ\LE[DCNMUPG_VSC@VJM
Date: Sun, 18 Feb 2007 17:48:04 GMT
Xref: g2news2.google.com rec.audio.opinion:61698 rec.audio.pro:92804
```

rec.radio.amateur.homebrew:9056 rec.radio.amateur.antenna:25366
comp.sys.ibm.pc.soundcard.tech:325

What's a good reasonably priced sound card that would be good for doing
guitar waterfall, slab plots and FFTs and what software should I
consider?   Is there any good freeware or shareware?
tnx

--

73
Hank WD5JFR

From -7304286385016451643
X-Google-Thread: 10d85e,cfa01e565e46a6bb
X-Google-Thread: 10cf58,cfa01e565e46a6bb
X-Google-Thread: fc2a5,cfa01e565e46a6bb
X-Google-Thread: fcc6e,cfa01e565e46a6bb
X-Google-Thread: 1021cd,cfa01e565e46a6bb
X-Google-Attributes: gid10d85e,gid10cf58,gidfc2a5,gidfcc6e,gid1021cd,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 18 Feb 2007 12:01:24 -0600
From: "Arny Krueger" <arnyk@hotpop.com>
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.anten
na,comp.sys.ibm.pc.soundcard.tech
References: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
Subject: Re: Good sound card & software ?
Date: Sun, 18 Feb 2007 13:01:10 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <2pKdncWSpsfpCUXYnZ2dnUVZ_v6tnZ2d@comcast.com>
Lines: 12
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X-Trace: sv3-
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8rdLS45JNTNbAeYcxB1uk/79A43VhTKGpxJMOUvq2NcEfvPAKhWDU6UYEW8EwY20Qr1vTDWmYlkY!
Jld7k5RDWQ==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.audio.opinion:61699 rec.audio.pro:92806

rec.radio.amateur.homebrew:9057 rec.radio.amateur.antenna:25368
comp.sys.ibm.pc.soundcard.tech:326

"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in
message
news:oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net

> What's a good reasonably priced sound card that would be
> good for doing guitar waterfall, slab plots and FFTs and
> what software should I consider?   Is there any good
> freeware or shareware?

If your system board is only 1-3 years old, the audio interface that is
built on it, makes a good starting point.

From 6452987978799687768
X-Google-Thread: fc2a5,bfd5cef3edcd9bbd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!homer!news.glorb.com!news-spur1.glorb.com!news.glorb.com!bigfeed2.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews3.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: killing cars with high RF?
References: <1171322270.786928.164360@a75g2000cwd.googlegroups.com>
In-Reply-To: <1171322270.786928.164360@a75g2000cwd.googlegroups.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 22
Message-ID: <vL0Ch.36460$19.4106@bignews3.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcboaaalnepklgdalphdmclppeekcpnchnjcggpkldhnmfidnijoekgnmodnnmghgokdpnaffidobadcejjodjglhophmigpgommipilhfghldhhdnkb
NNTP-Posting-Date: Sun, 18 Feb 2007 13:18:03 EST
Organization: BellSouth Internet Group
Date: Sun, 18 Feb 2007 13:18:11 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:9058

KE5MBX wrote:

> Hi,
> What's all this business I hear people talking about blasting people's
> car stereos or killing cars altogether with high-power RF? I run 2m,
> 10m, and 11m in my jeep and I'd like to sort out the fact from the
> legend and find out what kind of power I can use without risking

```
> damage to my jeep or cars around me.  At what power level is front-end
> overload to a nearby radio likely? At what power level is damage
> likely, and to what componets?
>
> I am currently using only 50 watts on a 5/8 wave (2m), 25w on a 1/4
> wave (10m), legal 4w on a 1/4 wave (11m)
>
> Thanks,
> Nelson KE5MBX
>
Some years ago I keyed up a 2 meter handi-talkie (maybe 2w out) with the
2 meter rig about a foot away from a Radio Shack 5" portable color tv.
The 2 watts of 2 meter rf caused the TV to self destruct!  I think
something in the horizontal output section died.  The TV was operating
at the time (it probably would not have happened if the tv was off).
The set was repaired by Radio Shack.


From 3376719412187883775
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!postnews.google.com!
q2g2000cwa.googlegroups.com!not-for-mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW Bands
Date: 18 Feb 2007 12:29:21 -0800
Organization: http://groups.google.com
Lines: 181
Message-ID: <1171830561.520342.64740@q2g2000cwa.googlegroups.com>
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
   <z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net>
   <45D25B20.1090806@worldnet.att.net>
   <bx6Bh.18315$p9.3093@bignews7.bellsouth.net>
   <slrnetavn3.cf.gsm@cable.mendelson.com>
   <1171674635.846476.313740@s48g2000cws.googlegroups.com>
   <v7EBh.13287$B8.4679@bignews6.bellsouth.net>
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Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171830582 18733 127.0.0.1 (18 Feb 2007 20:29:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 18 Feb 2007 20:29:42 +0000 (UTC)
In-Reply-To: <v7EBh.13287$B8.4679@bignews6.bellsouth.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-tc04.proxy.aol.com[CFC87114] (Prism/1.1.9), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: q2g2000cwa.googlegroups.com; posting-host=207.200.116.11;
```

posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:9059

From: ken scharf on Sat, Feb 17 2007 9:17 am

>LenAnderson@ieee.org wrote:
>> On Feb 16, 2:00?am, g...@mendelson.com (Geoffrey S. Mendelson) wrote:
>>> ken scharf wrote:
>>>> Wonder if A2 operation with USB tone modulated code would be legal on
>>>> these bands?
>
>>> Bear in mind Morse code was designed to be used in a mechanical punched
>>> tape sending device. It was never meant to be sent or received by hand.
>>> It was just by accident that an operator found out he could copy the message
>>> directly into his head by listening to the sound of the pen.
>
>> Ahem...small disagreement there. Morse's original "code" was
>> all numeric and the receiver was an inked trace on paper tape.
>
>>> Vail, not Morse, replaced the tape sender with a hand key, and dropped
>>> the pen from the receiver.
>
>> Alfred Vail's family was Morse's financial benefactor. The Vail
>> locomotive works tried to get the ink pen receiver to work
>> reliably and couldn't. At the same time Morse was having
>> trouble organizing his all-number "code" to cover enough
>> English language common phrases. According to the Vail
>> family website information, Alfred Vail suggested to Morse that
>> the whole English alphabet should be part of the "code."
>> Alfred suggested copying the frequency of letters of a printer's
>> type case as a way to make the most-used characters take
>> the least time to send.
>
>> Eventually, long after the hand key and acoustic "sounder"
>> were in common use, the ink-printed-on-paper-tape (or drum)
>> came back for very long circuits such as under-ocean lines.
>

>Also the "Morse" code invented by the man of the same name is NOT the
>same cypher (it's NOT really a code!) that we hams use over the air.

Irrelevant in the historical context of 1844 (163 years ago) and the beginning of the Morse-Vail Telegraph Company...or the period of 52 years of landline telegraphy before the first demonstration of radio as a communications medium in 1896 (in Italy and Russia). In that period between 1844 and the "turn of the Century" (1899-1900) landline telegraphy became a mature financial success and was duplicated (in "technology") around the world, partly on the Morse-Vail innovation-invention of the "relay." That "relay" enabled a single telegraph circuit to extend over three times its un-relayed length and reduced the capital investment of the telegraph companies.

Underwater telegraph lines proved a financial success despite the high cost of such telegrams. But, technically, such underwater lines suffered high line losses, necessitating the return to galvanometer-like ink pens at the receiving end... the original intent of Morse's telegraph system.

The word "code" is a very, very general descriptor of any system that uses a REPRESENTATION of a language or communication data. Other examples are the so-called Baudot code (5-level) or ASCII, the American Standard Code for Information Interchange (8-level) in teleprinting systems. The word "cypher" also has many meanings (including old references to mathematical operations) but, in the modern sense becomes more allied with cryptographic methods of obscuring the meaning of communications. See 'crypto' references to differences of "cyphertext" and "cleartext."

In the half-century prior to 1900 ("turn of the century" in the phrase of older times), a great number of different "dialects" of the "morse code" were generated, mostly to fit the languages of its users. By that turn of the century time land and sea telegraph systems had multiplied and were confounded by all the various languages and dialects of the telegraphic code. That was resolved somewhat by an international standards group called by the French acronym CCITT. The CCITT resolved a great number of communications means, protocols, tariffs, and methodologies to enable a quicker 'throughput' of communications between countries. What eventually came out of the CCITT telegraph standards work as the "international telegraph code" was based on the English alphabet, numerical notation, and punctuation. That wasn't because English was a "better" language but simply that it was the MOST USED language for international telegraphy AT THE TIME. Note that the teleprinter codes were also standardized on the 5-level system. Teleprinter systems would eventually dominate and succeed telegraphy systems for international communications.

Geoffrey and I were communicating on the OLD technology of (largely) manual telegraphy systems. It is not demeaning to say that such pre-1900 technology was PRIMITIVE. It was. There were no vacuum tubes to amplify anything and certainly no "radio" (until 1896 public demonstrations). Exactly what the early manual telegraphers did is relatively unimportant to the modern-day radio-electronics amateur radio world. Whatever they did was a relative success over a half-century of use and growth. But, that success was based on PRIMITIVE electrical technology.

What seems to be overlooked in early telegraphic technology is the remarkable innovation of the RELAY. A simple electromagnet driving a contact. Make the electromagnet sensitive enough to work with a 30-mile stretch of wires...wires NOT made to uniform standards which had not yet been developed. This simple relay could form an UNATTENDED telegraph station along a route, having its own battery for powering the outgoing line to the next station, keyed by the relay contacts. Up to three unattended relays could be used on one circuit...reaching up to 100 miles in length before the circuit characteristics began causing errors in transmission. No real time of transmission ensued, something that had to be considered with attended stations and the operator copying down one telegram, then resending it manually to the next station. Think of the telegraphic relay as a predecessor to the modern-day radio REPEATER. Same unattended method of relaying a communication, almost in real time.

>WE
>use what's actually called the "international radio telegraph" cypher
>(code). True Morse has characters based on dots, dashes, long dashes,
>and variable spaces!

That code is fully described as to dots, dashes, and spacing in the referenced document given in the "Definitions" section of Part 97, Title 47 C.F.R., as it applies to USA radio amateurs. I have a copy of that, purchased from the ITU. Interestingly, that same document does not define the equivalent rate-of-transmission...although the USA amateur radio regulations imply that it does.

>Also as sent over the land line the operator had
>to listen for the gap between clicks NOT the sound of the clicks! Try
>that folks!

Irrelevant as to what any telegraph operator did prior to 1900...except for historical notation. None of the participants of any newsgroups were alive then and therefore none can be "witnesses" to corroborate methods of early telegraph reception.

Perhaps the first appearance of the "BFO" in radio reception was an experiment by early radio innovator Reginald Fessenden. Fessenden ran a low-power Spark transmitter next to his early receiving detector and noted that detector sensitivity was increased (his major area of experimental research at the time. He did not coin any term such as "beat frequency oscillator;" that came later after Armstrong invented the "super-heterodyne" receiver (name in reference to Fessenden's experiment notation) with a fixed-tuned IF.

To simulate the "listening between clicks" on a radio, simply turn the BFO OFF with a strong "CW" signal coming in. That isn't a good duplication because there is a slight hiss of the distant carrier when it is on, perhaps a tiny bit of hum. If the distant signal is weak, the spaces between carrier-on dots and dashes would have some random noise. Either way, it is not a good way to "copy CW" without that BFO.

The start of this thread was a question on whether or not FCC 06-178 that goes into effect on 23 Feb 07 will "eliminate the CW bands." It will not as is noted in FCC 06-178. Let's not deviate into esoteric realms of potential flame-war ignition about "true morse code." USA amateur radio regulations are rather specific on the relative lengths and spacing of International Morse Code as defined by the ITU.

As to "homebrew" subjects, I submit that the Morse-Vail telegraph patent was an example of that in their "relay." Electro-magnets were known in 1844. Wire characteristics and early DC batteries were known. The telegraph patent connected them all in that "relay," something that no one else seems to have done at the time. Now, I consider that to be in the best spirit of "homebrewing." Innovation, doing what had not been done before. Others mileage may vary...

LenAndeson@ieee.org

```
From -6139712358474449089
X-Google-Thread: fc2a5,bfd5cef3edcd9bbd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!a75g2000cwd.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: killing cars with high RF?
Date: 18 Feb 2007 12:48:50 -0800
Organization: http://groups.google.com
Lines: 55
Message-ID: <1171831730.158262.72860@a75g2000cwd.googlegroups.com>
References: <1171322270.786928.164360@a75g2000cwd.googlegroups.com>
   <12tgtubnv7v26de@corp.supernews.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1171831748 23216 127.0.0.1 (18 Feb 2007 20:49:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 18 Feb 2007 20:49:08 +0000 (UTC)
In-Reply-To: <12tgtubnv7v26de@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
```

```
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-tc04.proxy.aol.com[CFC87114] (Prism/1.1.9), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: a75g2000cwd.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:9060

On Feb 18, 8:00=EF=BF=BDam, "john graesser" <graes...@tca.net> wrote:
> "KE5MBX" <nelson.bl...@gmail.com> wrote in message
>
> news:1171322270.786928.164360@a75g2000cwd.googlegroups.com...
>
> > Hi,
> > What's all this business I hear people talking about blasting people's
> > car stereos or killing cars altogether with high-power RF? I run 2m,
> > 10m, and 11m in my jeep and I'd like to sort out the fact from the
> > legend and find out what kind of power I can use without risking
> > damage to my jeep or cars around me. =A0At what power level is front-end
> > overload to a nearby radio likely? At what power level is damage
> > likely, and to what componets?

> Back in the mid 1970's I was in NROTC in college. There it was mentioned
> that an EA6B (the electronics warfare version of an A6) could pulse its
> radar and fry the electronics of a plane in the cone if it was close enou=
gh
> (under 1 mile if I recall correctly). Anecdotal stories like that are the
> source of electronic killing rf. That involved a multi megawatt microwave
> pulse, not something you would normally see in an amatuer installation.

   Back in the late 1960s I was a staff engineer at a small
   microwave company called Micro Radionics Inc.  One of
   the projects I worked on was a pre-flight test set for the
   E6 Intruder.  Battery-powered, it could be used on deck
   in front of the radome to confirm that the E6's radar was
   still operating properly.  No specifications existed warning
   of "megawatt" peak pulse powers from Intruder aircraft.

   I'm not familiar with the EA6B and doubt it had "megawatt"
   output powers.  EW designed to interfere with receivers
   generally don't need such high RF output powers.


> Living in an apartment, years ago I tried putting a 10 meter dipole across
> the ceiling in a stealth installation, I shut down when the residents abo=
ve
> me complained that their tv would scramble while I tried running psk31.

   In 1960 I was living in a second-story apartment and put
   a short base-loaded CB antenna in the attic space about
   five feet in front of the stacked TV "vee" antennas for
   apartment dwellers, my own apartment included.  The
   2 W peak output CB had a 60 db minimum (measured)
```

attenuation (at Channel 2) lowpass filter. No problems seen or reported. The TV transmitters in Los Angeles were all grouped on top of Mt. Wilson, about 30 miles away from the apartment.

A simple thing such as a lowpass filter can solve a lot of problems before they happen.

LenAnderson@ieee.org

From 5673804397528591599
X-Google-Thread: fc2a5,bfd5cef3edcd9bbd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wn12feed!worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
From: You <You@shadow.orgs>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: killing cars with high RF?
Organization: You and my shadow
References: <1171322270.786928.164360@a75g2000cwd.googlegroups.com> <12tgtubnv7v26de@corp.supernews.com> <1171831730.158262.72860@a75g2000cwd.googlegroups.com>
User-Agent: MT-NewsWatcher/3.1 (PPC)
Message-ID: <You-F04739.12553118022007@netnews.worldnet.att.net>
Lines: 16
Date: Sun, 18 Feb 2007 21:54:36 GMT
NNTP-Posting-Host: 12.12.208.55
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1171835676 12.12.208.55 (Sun, 18 Feb 2007 21:54:36 GMT)
NNTP-Posting-Date: Sun, 18 Feb 2007 21:54:36 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:9061

In article <1171831730.158262.72860@a75g2000cwd.googlegroups.com>,
"LenAnderson@ieee.org" <LenAnderson@ieee.org> wrote:

>
> I'm not familiar with the EA6B and doubt it had "megawatt"
> output powers. EW designed to interfere with receivers
> generally don't need such high RF output powers.

Actually Megawatt Output Powers for Pulsed Radars are easily in the range of most military Radars.......note I say "Pulsed" and not "CW"...

>
> LenAnderson@ieee.org
>

From -4710565439817227400
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 18 Feb 2007 16:37:20 -0600
Message-ID: <4TkBD9V8HN2FFAZs@ifwtech.co.uk>
Date: Sun, 18 Feb 2007 22:23:56 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW Bands
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
 <z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net>
 <45D25B20.1090806@worldnet.att.net>
 <bx6Bh.18315$p9.3093@bignews7.bellsouth.net>
 <slrnetavn3.cf.gsm@cable.mendelson.com>
 <1171674635.846476.313740@s48g2000cws.googlegroups.com>
 <v7EBh.13287$B8.4679@bignews6.bellsouth.net>
 <1171830561.520342.64740@q2g2000cwa.googlegroups.com>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<5mwkzTBRO5sETFKkGhyHHc+YXH>)
Lines: 59
NNTP-Posting-Host: 82.153.8.231
X-Trace: sv3-
p5uvr36pBIPK8j7JUMtcwmQANyQv23Z2aP+uac+JGe84W6J0W1dkKpPObK2PoqvBMtb6N4+vLsGHgki!
B6fzlqq8Mx+lrpIN/jUF2on+y9My5IW1Nht4MZguYQvbO0CmQIoxAr+8cpdh52vqd7KD/0J9
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9062

LenAnderson@ieee.org wrote:
>
>>Also as sent over the land line the operator had
>>to listen for the gap between clicks NOT the sound of the clicks! Try
>>that folks!
>
>   Irrelevant as to what any telegraph operator did prior to
>   1900...except for historical notation.

On the contrary, the 'clicker' persisted in some parts of the US
railroad system into at least the 1930s. My wife's father had been a
telegrapher with the Delaware & Hudson, and on joining the US Army for

WW2 he was re-trained to International Morse. He spent the rest of the war still pounding brass, just doing it differently than before.

However, he didn't go back to the D&H in 1945, so others must determine exactly when the clicker did die out.

>None of the participants
>   of any newsgroups were alive then and therefore none can be
>   "witnesses" to corroborate methods of early telegraph reception.

Call the surprise witness...

Witness relates that sometime around 1962, she visited Knott's Berry Farm with her Dad, Mom and sister. This was back when it was a working fruit farm, which had expanded into serving home style chicken dinners and berry pies.

The family made a reservation for a chicken dinner, and because these were so popular, the Farm had to give visitors something to do while they were waiting for the second sitting. They hit on the idea of re-creating an authentic Western ghost town, correct in every detail.

So it came to pass that the whole family wandered into the office at the railroad station. There was the telegraph, clicking away... Dad froze in intense concentration, and then doubled over with laughter! When he got his breath back, he told Mom and the girls what the clicks were saying:

"Eat chicken dinners"

"Eat chicken dinners"

"Eat chicken dinners"

"Eat chicken dinners"

Witness personally affirms that the message was delivered through the clicking of the telegraph sounder.

Witness is now MM3YNW, and is standing watching me type this. Don't you all think she should learn Morse to continue the family tradition?

--

73 from Ian GM3SEK

```
From 7997431438151660144
X-Google-Thread: 10d85e,cfa01e565e46a6bb
X-Google-Thread: 10cf58,cfa01e565e46a6bb
X-Google-Thread: fc2a5,cfa01e565e46a6bb
```

X-Google-Thread: fcc6e,cfa01e565e46a6bb
X-Google-Thread: 1021cd,cfa01e565e46a6bb
X-Google-Attributes: gid10d85e,gid10cf58,gidfc2a5,gidfcc6e,gid1021cd,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p10g2000cwp.googlegroups.com!not-for-mail
From: "videochas www.locoworks.com" <videochas@aol.com>
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,comp.sys.ibm.pc.soundcard.tech
Subject: Re: Good sound card & software ?
Date: 18 Feb 2007 14:49:56 -0800
Organization: http://groups.google.com
Lines: 15
Message-ID: <1171838996.380059.193360@p10g2000cwp.googlegroups.com>
References: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
NNTP-Posting-Host: 68.116.126.78
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171839023 8063 127.0.0.1 (18 Feb 2007 22:50:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 18 Feb 2007 22:50:23 +0000 (UTC)
In-Reply-To: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.12)
Gecko/20050915 Firefox/1.0.7 (ax),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p10g2000cwp.googlegroups.com; posting-host=68.116.126.78;
   posting-account=TaM6dg0AAAA7qwsNtqSPCDZ8e1fS9kh8
Xref: g2news2.google.com rec.audio.opinion:61709 rec.audio.pro:92831
rec.radio.amateur.homebrew:9063 rec.radio.amateur.antenna:25377
comp.sys.ibm.pc.soundcard.tech:327

On Feb 18, 9:48 am, "Henry Kolesnik" <koles...@nojunksbcglobal.net>
wrote:
> What's a good reasonably priced sound card that would be good for doing
> guitar waterfall, slab plots and FFTs and what software should I
> consider?   Is there any good freeware or shareware?
> tnx
>
> --
>
> 73
> Hank WD5JFR

Pardon my ignorance, but what is a"slab plot"? It sounds
architectural.

From -1973943089068558585
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 18 Feb 2007 17:00:56 -0600
Date: Sun, 18 Feb 2007 15:00:46 -0800
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla Thunderbird 1.0.2 (X11/20050322)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW Bands
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
<z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net> <45D25B20.1090806@worldnet.att.net>
<bx6Bh.18315$p9.3093@bignews7.bellsouth.net>
<slrnetavn3.cf.gsm@cable.mendelson.com>
<1171674635.846476.313740@s48g2000cws.googlegroups.com>
<v7EBh.13287$B8.4679@bignews6.bellsouth.net>
<1171830561.520342.64740@q2g2000cwa.googlegroups.com>
<4TkBD9V8HN2FFAZs@ifwtech.co.uk>
In-Reply-To: <4TkBD9V8HN2FFAZs@ifwtech.co.uk>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <vfudndDQg7Q0R0XYRVnyuwA@pipex.net>
Lines: 7
NNTP-Posting-Host: 71.107.26.158
X-Trace: sv3-bDuFLDsl4qLsB8QOS0mkVycBracLec4LU2quAUEy4CtRm7/4+LP/
K6ErYY7cbcWASb6ytH83+bObOhA!a90Jsjfz2XgE7YXgdtmE07w+/
htp2uMPXfJWhfWvfjNKy83eyeOF2nMVj5uCXBuTrrJwwfjpqfX+!3WI4DZs7RKJ5xw==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9064
```

> Witness is now MM3YNW, and is standing watching me type this. Don't you
> all think she should learn Morse to continue the family tradition?

=============================

Yes ,I feel she should ,having done the FL primer .
Welcome to the AR community.

Frank   KN6WH / GM0CSZ

```
From -2773501514106765260
X-Google-Thread: 10d85e,cfa01e565e46a6bb
X-Google-Thread: 10cf58,cfa01e565e46a6bb
X-Google-Thread: fc2a5,cfa01e565e46a6bb
X-Google-Thread: fcc6e,cfa01e565e46a6bb
X-Google-Thread: 1021cd,cfa01e565e46a6bb
X-Google-Attributes: gid10d85e,gid10cf58,gidfc2a5,gidfcc6e,gid1021cd,public
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!not-for-
mail
From: FFF
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.anten
na,comp.sys.ibm.pc.soundcard.tech
Subject: Re: Good sound card & software ?
Date: Sun, 18 Feb 2007 18:30:59 -0800
Message-ID: <5i2it2l01i96dga6f311ip2jvdchkdc5sv@4ax.com>
References: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
X-Newsreader: Forte Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 15
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news2.google.com rec.audio.opinion:61716 rec.audio.pro:92843
rec.radio.amateur.homebrew:9065 rec.radio.amateur.antenna:25385
comp.sys.ibm.pc.soundcard.tech:328

On Sun, 18 Feb 2007 17:48:04 GMT, "Henry Kolesnik"
<kolesnik@nojunksbcglobal.net> wrote:

>What's a good reasonably priced sound card that would be good for doing
>guitar waterfall, slab plots and FFTs and what software should I
>consider?   Is there any good freeware or shareware?
>tnx

Well, if you go to this site, you may find something interesting about
all that you are looking for.
  This is a little bit much, . .  But hey,  with THX certification, it
is going to give you a punch.


http://www.creative.com/products/product.asp?
category=1&subcategory=205&product=11226



From -7950905126710387103
X-Google-Thread: 10d85e,cfa01e565e46a6bb
X-Google-Thread: 10cf58,cfa01e565e46a6bb
X-Google-Thread: fc2a5,cfa01e565e46a6bb
X-Google-Thread: fcc6e,cfa01e565e46a6bb
X-Google-Thread: 1021cd,cfa01e565e46a6bb
X-Google-Attributes: gid10d85e,gid10cf58,gidfc2a5,gidfcc6e,gid1021cd,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
```

newssvr22.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,comp.sys.ibm.pc.soundcard.tech
References: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
<1171838996.380059.193360@p10g2000cwp.googlegroups.com>
Subject: Re: Good sound card & software ?
Lines: 26
MIME-Version: 1.0
Content-Type: text/plain;
format=flowed;
charset="iso-8859-1";
reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <358Ch.59278$QU1.40818@newssvr22.news.prodigy.net>
NNTP-Posting-Host: 70.234.41.99
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr22.news.prodigy.net 1171852735 ST000 70.234.41.99 (Sun, 18 Feb 2007 21:38:55 EST)
NNTP-Posting-Date: Sun, 18 Feb 2007 21:38:55 EST
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
Q[R_PJON^ZUKRTD[@JIROFXBWR\HPCTL@XT^OBPLAH[\RSAANVUEAE[YETZPIWWI[FCIZA^NBFXZ_D[BFNTCNVPDTNTKHWXKB@X^B_OCJLPZ@ET_O[G\XSG@E\G[ZKVLBL^CJINM@I_KVIOR\T_M_AW_M[_BWU_HFA_]@A_A^SGFAUDE_DFTMQPFWVW[QPJN
Date: Sun, 18 Feb 2007 20:38:55 -0600
Xref: g2news2.google.com rec.audio.opinion:61718 rec.audio.pro:92845
rec.radio.amateur.homebrew:9066 rec.radio.amateur.antenna:25386
comp.sys.ibm.pc.soundcard.tech:329

Slab plots may not be the best term and it may be stack plots. Lets say you have a plot of wave at time=o and another time=1 and so on. If you stack these plots offset a bit using a transparent medium you can see the wave as it decays over time. There's a good picture of this in the Hewlett Packard catalog in the description of the HP 3561A. The folders of Microsofts new Vista screen are a step in that direction.
hank
"videochas www.locoworks.com" <videochas@aol.com> wrote in message
news:1171838996.380059.193360@p10g2000cwp.googlegroups.com...
> On Feb 18, 9:48 am, "Henry Kolesnik" <koles...@nojunksbcglobal.net>
> wrote:
>> What's a good reasonably priced sound card that would be good for
>> doing
>> guitar waterfall, slab plots and FFTs and what software should I
>> consider? Is there any good freeware or shareware?
>> tnx
>>
>> --

```
>>
>> 73
>> Hank WD5JFR
>
> Pardon my ignorance, but what is a"slab plot"?  It sounds
> architectural.
>



From 5973676034979458503
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m58g2000cwm.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW Bands
Date: 18 Feb 2007 20:15:02 -0800
Organization: http://groups.google.com
Lines: 140
Message-ID: <1171858502.321693.286560@m58g2000cwm.googlegroups.com>
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
   <z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net>
   <45D25B20.1090806@worldnet.att.net>
   <bx6Bh.18315$p9.3093@bignews7.bellsouth.net>
   <slrnetavn3.cf.gsm@cable.mendelson.com>
   <1171674635.846476.313740@s48g2000cws.googlegroups.com>
   <v7EBh.13287$B8.4679@bignews6.bellsouth.net>
   <1171830561.520342.64740@q2g2000cwa.googlegroups.com>
   <4TkBD9V8HN2FFAZs@ifwtech.co.uk>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171858516 21310 127.0.0.1 (19 Feb 2007 04:15:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Feb 2007 04:15:16 +0000 (UTC)
In-Reply-To: <4TkBD9V8HN2FFAZs@ifwtech.co.uk>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-td08.proxy.aol.com[CFC871A5] (Prism/1.1.9), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: m58g2000cwm.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:9067

From: Ian White GM3SEK <gm3...@ifwtech.co.uk> on Sun, 18 Feb 2007
22:23:56 +0000
```

>LenAnder...@ieee.org wrote:
>
>>>Also as sent over the land line the operator had
>>>to listen for the gap between clicks NOT the sound of the clicks! Try
>>>that folks!
>
>>   Irrelevant as to what any telegraph operator did prior to
>>   1900...except for historical notation.
>
>On the contrary, the 'clicker' persisted in some parts of the US
>railroad system into at least the 1930s. My wife's father had been a
>telegrapher with the Delaware & Hudson, and on joining the US Army for
>WW2 he was re-trained to International Morse. He spent the rest of the
>war still pounding brass, just doing it differently than before.
>
>However, he didn't go back to the D&H in 1945, so others must determine
>exactly when the clicker did die out.

What I described was PRIOR to 1900.

A few railroad carriers in the USA continued with manual
telegraphy until about 1960. But, in fairness to the
world of communications, those were rare.

The railroad system in the USA is not small and it is also
not the biggest carrier of freight over here. Outside of
the roll-on containers carried by rail between drop-off
and pick-up points, the majority of land freight here goes
by truck on our large highway system.

Most of the railways over here had begun converting to
data communications in various forms prior to 1940.

>Call the surprise witness...
>
>Witness relates that sometime around 1962, she visited Knott's Berry
>Farm with her Dad, Mom and sister. This was back when it was a working
>fruit farm, which had expanded into serving home style chicken dinners
>and berry pies.

Knott's Berry Farm is a popular tourist spot in southern
California...relatively close to the original Disneyland.
It is roughly an hours' drive south from my Los Angeles
residence.

>So it came to pass that the whole family wandered into the office at the
>railroad station. There was the telegraph, clicking away... Dad froze
>in intense concentration, and then doubled over with laughter! When he
>got his breath back, he told Mom and the girls what the clicks were
>saying:
>
>"Eat chicken dinners"

No doubt. The Knotts place IS a tourist attraction. But, that reproduction of a railroad station is nothing more than a reproduction. It is not a working communications station. There are several railway station reproductions in the Greater Los Angeles area and parts of them on various motion picture production lots. Perhaps the best one is on the north side of Griffith Park (closest to my southern home) which is also a railway museum.

Knotts also has several buggies and a reproduction of an "old west" stagecoach. Neither of which are used in any public transportation outside of the park. In the motion picture industry here (very big) there is a mild contention as to which craftsmen build the "best stagecoaches" (using modern materials having better characteristics). Those can be made to "break apart" safely for the cameras and stunt people riding them. However, stagecoaches have not been used for public transportation here for decades.

>Witness personally affirms that the message was delivered through the
>clicking of the telegraph sounder.

I have nothing against that. In nearby Anaheim, Disneyland still has a flight to the moon experience (in Tomorrowland) yet it never leaves the ground. One can also take a ride in a "submarine" but not go more than a few feet below the water's surface.

>Witness is now MM3YNW, and is standing watching me type this. Don't you
>all think she should learn Morse to continue the family tradition?

That is up the family suddenly thrust upon this (non) discussion.

I was unaware that "wives and families" suddenly had some impact on what is known about telegraphic communications history in its half century before "radio" was demonstrated as a communications medium.

I first "fired up" on HF in February 1953, part of my being assigned to a US Army communications station in Tokyo. That was a small 1 KW HF transmitter using TTY FSK. There were three dozen other transmitters there; six more would be added by 1955. NONE of the radio circuits of this 3rd largest Army station used any OOK CW mode of modulation. In my subsequent career change after service into electronics design engineer I've never had a requirement to use OOK CW on radio. Until 2005 when my wife and I bought a new car having a keyless entry radio-on-a-chain-fob. That fob transmitter is OOK CW. But, its data rate is beyond human cognition, ANY human.

In 1969 my father and father-in-law were still alive. Both watched, in widely separated geographical locations (in the comfort of their homes), LIVE video from the moon as the first two humans stepped onto the lunar surface. Both my father and father-in-law were born in the year 1900... one year before Marconi's trans-Atlantic test radio transmission and three years before the Wright Brothers demonstrated the first heavier than air flight. Both astronauts plus Collins in the lunar orbiter were in constant touch with earth by radio...for both communications and telemetry, guided there by computers of several kinds, on earth as well as in the reentry and descent/ascent capsule.

I have nothing against telegraphic skills nor anyone using those for personal pleasure. However, in the light of advancement of the electronic arts, communications, radio, methods that ALL of us can share, I think there is an over-much emphasis by radio hobbyists on telegraphic arts. Manual telegraphy IS a historic first but it has been supplanted in practical communications means at our disposal...on land, in the air, on the sea, and in space.

I think we should be looking FORWARD to the future, not back to the past. Others disagree. I leave it at that.

LenAnderson@ieee.org

```
From -7787811518761086421
X-Google-Thread: fc2a5,bfd5cef3edcd9bbd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!t69g2000cwt.googlegroups.com!not-for-mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: killing cars with high RF?
Date: 18 Feb 2007 20:17:35 -0800
Organization: http://groups.google.com
Lines: 51
Message-ID: <1171858655.165032.52040@t69g2000cwt.googlegroups.com>
References: <1171322270.786928.164360@a75g2000cwd.googlegroups.com>
   <12tgtubnv7v26de@corp.supernews.com>
   <1171831730.158262.72860@a75g2000cwd.googlegroups.com>
   <You-F04739.12553118022007@netnews.worldnet.att.net>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
```

X-Trace: posting.google.com 1171858660 23264 127.0.0.1 (19 Feb 2007 04:17:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Feb 2007 04:17:40 +0000 (UTC)
In-Reply-To: <You-F04739.12553118022007@netnews.worldnet.att.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-ntc-td08.proxy.aol.com[CFC871A5] (Prism/1.1.9), HTTP/1.1 cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: t69g2000cwt.googlegroups.com; posting-host=207.200.116.11;
posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:9068

From: You <Y...@shadow.orgs> on Sun, 18 Feb 2007 21:54:36 GMT

> "LenAnder...@ieee.org" <LenAnder...@ieee.org> wrote:
>
>> I'm not familiar with the EA6B and doubt it had "megawatt"
>> output powers. EW designed to interfere with receivers
>> generally don't need such high RF output powers.
>
>Actually Megawatt Output Powers for Pulsed Radars are easily in the
>range of most military Radars.......

Actually, NO. "Most" are not at over one-megawatt peak pulse levels.

Do the "radar equation" or just do the two-way free space loss and then subtract the varying reflections of the target (way NOT uniform). That gets a reasonable approximation of power levels involved.

A long-range ship search radar has high power. It must because it has to "reach" over the radio horizon. [more loss due to refractive bending and scattering effects]

Intruders and Prowlers (E6 family) operate at altitude. Their direct radio horizon is much farther due to that altitude in comparison with a surface ship.

Electronic Warfare suites concentrate on copying the enemy signal and returning it AS IF it were a target return, either there or some distance away or on either side. Only HALF the RF path is involved and the EW-originated signal is quite low in level. Again, do the "radar equation" but only the return path.

"Jamming" with over-much RF power went out with WW2. It is much more subtle now and has been for years. The circa 1958 MacDonnell Quail missle was a small unmanned decoy air-breather with lots of automatic

radar futz-up on it. B-52s carried them then. I
worked a little bit on those at Ramo-Woldridge in
El Segundo, CA.

I'm also acquainted with the Association of Old Crows,
a professional one made up of those who work/worked in
Electronic Warfare. Try as I might, I can't remember
anyone there called "You." :-)

OK, let's get back to HOMEBREW things...

LenAnderson@ieee.org

```
From 6285503818038740457
X-Google-Thread: 10d85e,cfa01e565e46a6bb
X-Google-Thread: 10cf58,cfa01e565e46a6bb
X-Google-Thread: fc2a5,cfa01e565e46a6bb
X-Google-Thread: fcc6e,cfa01e565e46a6bb
X-Google-Thread: 1021cd,cfa01e565e46a6bb
X-Google-Attributes: gid10d85e,gid10cf58,gidfc2a5,gidfcc6e,gid1021cd,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc03.POSTED!98f7de63!not-for-mail
From: "David Morgan \(MAMS\)" <findme@m-a-m-s.comC/Odm>
Newsgroups: 
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.anten
na,comp.sys.ibm.pc.soundcard.tech
References: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
Subject: Re: Good sound card & software ?
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1437
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1441
Message-ID: <uO9Ch.713$CG5.124@trnddc03>
Date: Mon, 19 Feb 2007 04:35:38 GMT
NNTP-Posting-Host: 71.97.8.135
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc03 1171859738 71.97.8.135 (Sun, 18 Feb 2007 23:35:38 EST)
NNTP-Posting-Date: Sun, 18 Feb 2007 23:35:38 EST
Xref: g2news2.google.com rec.audio.opinion:61727 rec.audio.pro:92861
rec.radio.amateur.homebrew:9069 rec.radio.amateur.antenna:25388
comp.sys.ibm.pc.soundcard.tech:331
```

"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in message
news:oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net...
> What's a good reasonably priced sound card that would be good for doing
> guitar waterfall, slab plots and FFTs and what software should I
> consider?   Is there any good freeware or shareware?

> tnx
>
> --
>
> 73
> Hank WD5JFR
>

RME

http://www.rme-audio.com/english/soundcds.htm

From -4813379552288477181
X-Google-Thread: fc2a5,a76274d344865ea2
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k78g2000cwa.googlegroups.com!not-for-mail
From: "Denny" <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted: Airdux Coil Stock
Date: 19 Feb 2007 05:52:22 -0800
Organization: http://groups.google.com
Lines: 24
Message-ID: <1171893142.292580.254940@k78g2000cwa.googlegroups.com>
References: <pan.2007.01.31.03.17.37.983109@sbcglobal.net>
   <1170265997.352770.89020@v45g2000cwv.googlegroups.com>
NNTP-Posting-Host: 71.90.42.60
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171893156 10328 127.0.0.1 (19 Feb 2007 13:52:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Feb 2007 13:52:36 +0000 (UTC)
In-Reply-To: <1170265997.352770.89020@v45g2000cwv.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; IEMB3; IEMB3),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k78g2000cwa.googlegroups.com; posting-host=71.90.42.60;
   posting-account=GhrC0g0AAACdrABM-CDx8Fhs5lKJR5q2
Xref: g2news2.google.com rec.radio.amateur.homebrew:9070

On Jan 31, 12:53 pm, "Tim Shoppa" <sho...@trailing-edge.com> wrote:
> On Jan 30, 10:15 pm, Steve <kc5...@sbcglobal.net> wrote:
>
> > Hello,
> > I'm needing some 3" coil stock 8tpi and some 2 1/2' at 8tpi.
>
> Not cheap, but the horse's mouth is:

>
> http://www.bwantennas.com/coils/aduxacr.htm
>
> I have been getting glass-epoxy or phenolic tubes (good place:www.mcmaster.com
>) and winding mine from rod/wire lately (silver plated in some
> cases... learning how to silver plate myself too!).
>
> Tim.

I am in want of some 3" dia. coil stock that will handle QRO...
Normally hand wind my own but decided to go to the B&W web site...
They want $100 for a single Air Dux of that size... They want $40 for
a tiny one like you use for an oscillator... They are insane, but not
as nuts as the folks paying their price...
This morning I am so annoyed I just may go into the business...
denny

From -4841313254247747499
X-Google-Thread: 10d85e,cfa01e565e46a6bb
X-Google-Thread: 10cf58,cfa01e565e46a6bb
X-Google-Thread: fc2a5,cfa01e565e46a6bb
X-Google-Thread: fcc6e,cfa01e565e46a6bb
X-Google-Thread: 1021cd,cfa01e565e46a6bb
X-Google-Attributes: gid10d85e,gid10cf58,gidfc2a5,gidfcc6e,gid1021cd,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.sysmatrix.net!
news.sysmatrix.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 Feb 2007 08:04:38 -0600
From: NoSpam@daqarta.com (Bob Masta)
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,comp.sys.ibm.pc.soundcard.tech
Subject: Re: Good sound card & software ?
Date: Mon, 19 Feb 2007 14:06:30 GMT
Organization: Interstellar Research
Reply-To: NoSpam@daqarta.com
Message-ID: <45d9ad82.1201022@news.sysmatrix.net>
References: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
X-Newsreader: Forte Free Agent 1.11/32.235
Lines: 34
NNTP-Posting-Host: 66.2.148.55
X-Trace: sv3-faKBVVYNwqDj1WEkfYQ/
6gb4y0YQ7cf2BGEZTB1qVoEak14n8kqSGquDrMwETf5vGg5GfrnGXhAzSLx!
57mXthtEt1F+KiCzJ9X2Kx3XyS7NW+V8YwNstfa6N9OR5/7NFwD6bus9sSg2CKLH8lN8C3mBDIt8!
fFSQGtQhVGCdFlHI
X-Complaints-To: abuse@sysmatrix.net
X-DMCA-Complaints-To: abuse@sysmatrix.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly

X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.audio.opinion:61742 rec.audio.pro:92907
rec.radio.amateur.homebrew:9071 rec.radio.amateur.antenna:25394
comp.sys.ibm.pc.soundcard.tech:332

On Sun, 18 Feb 2007 17:48:04 GMT, "Henry Kolesnik"
<kolesnik@nojunksbcglobal.net> wrote:

>What's a good reasonably priced sound card that would be good for doing
>guitar waterfall, slab plots and FFTs and what software should I
>consider?   Is there any good freeware or shareware?
>tnx
>

Can't help you with the slab plots or waterfalls,
but my Daqarta shareware has color spectrograms,
as well as spectra and waveform displays, signal
averaging, signal generation, etc.

FFT size is 1024 points, so you won't be able to use
this for tuning your guitar, if that's what you had in mind.
I'm in the process of adding a high-resolution
FFT peak position interpolator that might or might not
help that... it won't separate close peaks, though.

I'd be glad to answer any questions.

Best regards,

Bob Masta

            DAQARTA
Data AcQuisition And Real-Time Analysis
           www.daqarta.com
Scope, Spectrum, Spectrogram, Signal Generator
    Science with your sound card!

From 315826537193240352
X-Google-Thread: fc2a5,87fa50249afb23ed
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
From: Doug Smith W9WI <w9wi@invalid.invalid>
Reply-To: w9wi@invalid.invalid
Organization: Ham Radio W9WI
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.13) Gecko/20060417
X-Accept-Language: en-us, en

MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Simple wideband audio amplifier circuit?
References: <1171383280.535643.3860@v45g2000cwv.googlegroups.com>
In-Reply-To: <1171383280.535643.3860@v45g2000cwv.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 23
Message-ID: <REjCh.3361$_73.3@newsread2.news.pas.earthlink.net>
Date: Mon, 19 Feb 2007 15:48:01 GMT
NNTP-Posting-Host: 4.152.177.169
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1171900081 4.152.177.169 (Mon, 19 Feb 2007 07:48:01 PST)
NNTP-Posting-Date: Mon, 19 Feb 2007 07:48:01 PST
Xref: g2news2.google.com rec.radio.amateur.homebrew:9072

mcclements@gmail.com wrote:
> I have been looking around the web for a complete kit for an audio
> amplifier, for a circuit that I am building that needs to have a wide,
> flat as possible frequency response (0Hz - 100Khz). Need to be able to
> bring 400mV up to line level. I have seen several kits based on a
> LM386, but I can't find any specs that show that circuit is reliable
> beyond 20hz - 20Khz. I am a beginner, so keep that in mind when
> responding.

What exactly are you trying to do?

400mV isn't that far from line level going into a computer soundcard.
Is there a gain, volume, or full-scale adjustment you can make in
software that'll pull up the signal?

If you do need the gain, as others say a standard op-amp circuit will do
the trick. I've found the NE5534 to be a decent low-noise choice. Stay
away from the LM386; it's great if you need a bit of audio fast and
cheap, but that's about all it's good at.

--
Doug Smith W9WI
Pleasant View (Nashville), TN EM66
http://www.w9wi.com

From -2252273357495652512
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Path: g2news2.google.com!news3.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newscon06.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!

```
newssvr22.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.anten
na,comp.sys.ibm.pc.soundcard.tech
References: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
<45d9ad82.1201022@news.sysmatrix.net>
Subject: Re: Good sound card & software ?
Lines: 46
MIME-Version: 1.0
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     reply-type=original
Content-Transfer-Encoding: 7bit
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X-MSMail-Priority: Normal
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Message-ID: <mvlCh.59334$QU1.336@newssvr22.news.prodigy.net>
NNTP-Posting-Host: 70.234.41.99
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X-Trace: newssvr22.news.prodigy.net 1171907666 ST000 70.234.41.99 (Mon, 19 Feb
2007 12:54:26 EST)
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Date: Mon, 19 Feb 2007 11:54:27 -0600
Xref: g2news2.google.com rec.audio.opinion:61768 rec.audio.pro:92969
rec.radio.amateur.homebrew:9073 rec.radio.amateur.antenna:25401
comp.sys.ibm.pc.soundcard.tech:333

Bob
I sent an eamil to your site and asked them to send it to you becasue I
couldn't figure your address.

--

73
Hank WD5JFR
"Bob Masta" <NoSpam@daqarta.com> wrote in message
news:45d9ad82.1201022@news.sysmatrix.net...
> On Sun, 18 Feb 2007 17:48:04 GMT, "Henry Kolesnik"
> <kolesnik@nojunksbcglobal.net> wrote:
>
>>What's a good reasonably priced sound card that would be good for
>>doing
>>guitar waterfall, slab plots and FFTs and what software should I
>>consider?   Is there any good freeware or shareware?
>>tnx
```

```
>>
>
> Can't help you with the slab plots or waterfalls,
> but my Daqarta shareware has color spectrograms,
> as well as spectra and waveform displays, signal
> averaging, signal generation, etc.
>
> FFT size is 1024 points, so you won't be able to use
> this for tuning your guitar, if that's what you had in mind.
> I'm in the process of adding a high-resolution
> FFT peak position interpolator that might or might not
> help that... it won't separate close peaks, though.
>
> I'd be glad to answer any questions.
>
> Best regards,
>
>
>
>
> Bob Masta
>
>             D A Q A R T A
> Data AcQuisition And Real-Time Analysis
>            www.daqarta.com
> Scope, Spectrum, Spectrogram, Signal Generator
>    Science with your sound card!
```

```
From 740083045297478884
X-Google-Thread: fc2a5,61f995ce17ef3736
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X-Google-Language: ENGLISH,UTF8
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From: N2EY@AOL.COM
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW Bands
Date: 19 Feb 2007 10:02:39 -0800
Organization: http://groups.google.com
Lines: 99
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References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
   <z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net>
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   <bx6Bh.18315$p9.3093@bignews7.bellsouth.net>
   <slrnetavn3.cf.gsm@cable.mendelson.com>
   <1171674635.846476.313740@s48g2000cws.googlegroups.com>
   <v7EBh.13287$B8.4679@bignews6.bellsouth.net>
   <1171830561.520342.64740@q2g2000cwa.googlegroups.com>
   <4TkBD9V8HN2FFAZs@ifwtech.co.uk>
   <1171858502.321693.286560@m58g2000cwm.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 19 Feb 2007 18:02:45 +0000 (UTC)
In-Reply-To: <1171858502.321693.286560@m58g2000cwm.googlegroups.com>
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 Turboweb [dtc-td093 8.4.1], HTTP/1.1 cache-dtc-
aa07.proxy.aol.com[CDBC740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: m58g2000cwm.googlegroups.com; posting-host=205.188.116.11;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news2.google.com rec.radio.amateur.homebrew:9074

On Feb 18, 11:15=EF=BF=BDpm, "LenAnder...@ieee.org" <LenAnder...@ieee.org>
wrote:
> From: Ian White GM3SEK <gm3...@ifwtech.co.uk> on Sun, 18 Feb 2007
> 22:23:56 +0000

> =A0 =A0The railroad system in the USA is not small and it is also
> =A0 =A0not the biggest carrier of freight over here.

Actually, that depends on how you define "biggest".

>   =A0Outside of
> =A0 =A0the roll-on containers carried by rail between drop-off
> =A0 =A0and pick-up points, the majority of land freight here goes
> =A0 =A0by truck on our large highway system.

Freight transportation professionals measure by the unit
of ton-mile. By that measure, rail is the #1 provider of US
freight transportation.

> =A0 =A0Most of the railways over here had begun converting to
> =A0 =A0data communications in various forms prior to 1940.

That's true. Some manual Morse telegraphy survived into the
1960s, but in general the use of teletype and voice comms
had become standard by the 1950s. Also, much of the need
for telegraph communications was eliminated by changes to
the dispatching systems in use.

>
> =A0 =A0I first "fired up" on HF in February 1953, part of my being
> =A0 =A0assigned to a US Army communications station in Tokyo. =A0

A station that was maintained by several hundred Army personnel.

>    That
```

> =A0 =A0was a small 1 KW HF transmitter using TTY FSK. =A0There were
> =A0 =A0three dozen other transmitters there; six more would be
> =A0 =A0added by 1955. =A0NONE of the radio circuits of this 3rd
> =A0 =A0largest Army station used any OOK CW mode of modulation.

However, that was one station in one place. It was not necessarily
representative of all military radio communications at the time, nor
of amateur radio communications, then or now.

> =A0 =A0In my subsequent career change after service into
> =A0 =A0electronics design engineer I've never had a requirement
> =A0 =A0to use OOK CW on radio. =A0

You have also never been a radio amateur. Nor a professional
radio operator.

>   Until 2005 when my wife and I bought
> =A0 =A0a new car having a keyless entry radio-on-a-chain-fob. =A0That
> =A0 =A0fob transmitter is OOK CW. =A0But, its data rate is beyond
> =A0 =A0human cognition, ANY human.
>
> =A0 =A0In 1969 my father and father-in-law were still alive. =A0Both
> =A0 =A0watched, in widely separated geographical locations (in
> =A0 =A0the comfort of their homes), LIVE video from the moon as
> =A0 =A0the first two humans stepped onto the lunar surface. =A0Both
> =A0 =A0my father and father-in-law were born in the year 1900...
> =A0 =A0one year before Marconi's trans-Atlantic test radio
> =A0 =A0transmission and three years before the Wright Brothers
> =A0 =A0demonstrated the first heavier than air flight. =A0Both
> =A0 =A0astronauts plus Collins in the lunar orbiter were in
> =A0 =A0constant touch with earth by radio...for both
> =A0 =A0communications and telemetry, guided there by computers
> =A0 =A0of several kinds, on earth as well as in the reentry
> =A0 =A0and descent/ascent capsule.

Of what relevance is that to amateur radio?
>
> =A0 =A0I have nothing against telegraphic skills nor anyone using
> =A0 =A0those for personal pleasure. =A0

Many of your statements elsewhere on Usenet contradict that.

>   However, in the light of
> =A0 =A0advancement of the electronic arts, communications, radio,
> =A0 =A0methods that ALL of us can share, I think there is an
> =A0 =A0over-much emphasis by radio hobbyists on telegraphic arts.

IOW, it's OK with you if someone uses it, as long as they don't
emphasize it.

> =A0 =A0Manual telegraphy IS a historic first but it has been
> =A0 =A0supplanted in practical communications means at our
> =A0 =A0disposal...on land, in the air, on the sea, and in space.

Morse Code is also practical communications. And it is widely
used in amateur radio today.

> =A0 =A0I think we should be looking FORWARD to the future, not
> =A0 =A0back to the past. =A0Others disagree. =A0I leave it at that.

What does "FORWARD to the future" really mean in that context?

Jim, N2EY

```
From 5150515566337623400
X-Google-Thread: 10d85e,cfa01e565e46a6bb
X-Google-Thread: 10cf58,cfa01e565e46a6bb
X-Google-Thread: fc2a5,cfa01e565e46a6bb
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news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 Feb 2007 12:36:56 -0600
From: Richard Clark <kb7qhc@comcast.net>
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.anten
na,comp.sys.ibm.pc.soundcard.tech
Subject: Re: Good sound card & software ?
Date: Mon, 19 Feb 2007 10:34:50 -0800
Message-ID: <98rjt2tmesscthi5jk8s8knorfavn7ld3g@4ax.com>
References: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.audio.opinion:61769 rec.audio.pro:92992
rec.radio.amateur.homebrew:9075 rec.radio.amateur.antenna:25402
comp.sys.ibm.pc.soundcard.tech:334
```

On Mon, 19 Feb 2007 14:06:30 GMT, NoSpam@daqarta.com (Bob Masta)
wrote:

>FFT size is 1024 points, so you won't be able to use
>this for tuning your guitar, if that's what you had in mind.

Hi Bob,

Why not? 1024 points (bins) has enough resolution to shake out every note on a Hawaiian slide guitar. The only care is selecting the sampling rate and most FFT packages should be able to resolve exceedingly fine.

73's
Richard Clark, KB7QHC

```
From -1272526527564037595
X-Google-Thread: 10d85e,cfa01e565e46a6bb
X-Google-Thread: 10cf58,cfa01e565e46a6bb
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X-Google-Thread: fcc6e,cfa01e565e46a6bb
X-Google-Thread: 1021cd,cfa01e565e46a6bb
X-Google-Attributes: gid10d85e,gid10cf58,gidfc2a5,gidfcc6e,gid1021cd,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
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postmaster.news.prodigy.com!newssvr22.news.prodigy.net.POSTED!c4667c2f!not-for-
mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.anten
na,comp.sys.ibm.pc.soundcard.tech
References: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
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X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <NsoCh.59361$QU1.47553@newssvr22.news.prodigy.net>
NNTP-Posting-Host: 70.234.41.99
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2007 16:16:29 EST)
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QCOA_SAH@TPD^\AL\RLGRFWEARBM
Date: Mon, 19 Feb 2007 15:16:29 -0600
Xref: g2news2.google.com rec.audio.opinion:61787 rec.audio.pro:93026
rec.radio.amateur.homebrew:9076 rec.radio.amateur.antenna:25405
comp.sys.ibm.pc.soundcard.tech:335

There's a good example of a 3D plot here:
http://www.spectraplus.com/screenshots.html#3d
Has anyone used this software?
tnx

--

73
Hank WD5JFR
"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:98rjt2tmesscthi5jk8s8knorfavn7ld3g@4ax.com...
> On Mon, 19 Feb 2007 14:06:30 GMT, NoSpam@daqarta.com (Bob Masta)
> wrote:
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>>FFT size is 1024 points, so you won't be able to use
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>
> Why not?  1024 points (bins) has enough resolution to shake out every
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> exceedingly fine.
>
> 73's
> Richard Clark, KB7QHC




From 5182019782321490961
X-Google-Thread: 10d85e,cfa01e565e46a6bb
X-Google-Thread: 10cf58,cfa01e565e46a6bb
X-Google-Thread: fc2a5,cfa01e565e46a6bb
X-Google-Thread: fcc6e,cfa01e565e46a6bb
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X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Mon, 19 Feb 2007 15:59:43 -0600
From: "Arny Krueger" <arnyk@hotpop.com>
```

Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,comp.sys.ibm.pc.soundcard.tech
References: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
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<NsoCh.59361$QU1.47553@newssvr22.news.prodigy.net>
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Date: Mon, 19 Feb 2007 16:59:43 -0500
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
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xdAqd53dcdmK231kV0F73YYgzAf0MBnWvS53SqwBAr5zxWLgismBxAiIZgkNSRLPJIxMA3mUjHnd!
JCqS3RepFw==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.audio.opinion:61795 rec.audio.pro:93033
rec.radio.amateur.homebrew:9077 rec.radio.amateur.antenna:25409
comp.sys.ibm.pc.soundcard.tech:336

"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in
message
news:NsoCh.59361$QU1.47553@newssvr22.news.prodigy.net

> There's a good example of a 3D plot here:
> http://www.spectraplus.com/screenshots.html#3d
> Has anyone used this software?

Yes, but not for exactly that purpose.

Here's a sample of my usage of Spectra:

http://www.pcavtech.com/soundcards/lynxtwo/

From -2668831862002720187
X-Google-Thread: 10d85e,cfa01e565e46a6bb
X-Google-Thread: 10cf58,cfa01e565e46a6bb
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X-Google-Language: ENGLISH,ASCII-7-bit
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news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 Feb 2007 16:11:00 -0600
From: Richard Clark <kb7qhc@comcast.net>
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,comp.sys.ibm.pc.soundcard.tech
Subject: Re: Good sound card & software ?
Date: Mon, 19 Feb 2007 14:08:54 -0800
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<NsoCh.59361$QU1.47553@newssvr22.news.prodigy.net>
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qzOigVgWu1a!uJEFHuBXr0SubdMyZthhh4CK1UfNeD9WaJ7W/
yGRUGqKoERWOxWVk5fIHgEvFuI+tvjWGCTz/nN0!2rGaRKPkaTI=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.audio.opinion:61798 rec.audio.pro:93038
rec.radio.amateur.homebrew:9078 rec.radio.amateur.antenna:25413
comp.sys.ibm.pc.soundcard.tech:337

On Mon, 19 Feb 2007 15:16:29 -0600, "Henry Kolesnik"
<kolesnik@nojunksbcglobal.net> wrote:

>There's a good example of a 3D plot here:
>http://www.spectraplus.com/screenshots.html#3d
>Has anyone used this software?

Hi Hank,

Yes, I have. It is exceedingly expensive, but you can probably get 30 days of free use if you have a one-time knock off project. Of course, it may take 30 days to figure it out.

FFT analyzers are a dime a dozen, but few know how to use them accurately - or are even aware of what can be done with them. Bob's complaint, notwithstanding, a 1024 bin FFT employing the proper mixing inputs can resolve any note on a guitar to within hundredths of a cycle. I am sure this is of no interest to you, however.

What are you trying to measure? The dime a dozen analyzers (meaning free, or packaged with other software) can do enough if you are not particularly demanding.

73's
Richard Clark, KB7QHC

```
From 4625988059633738741
X-Google-Thread: 10d85e,cfa01e565e46a6bb
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 Feb 2007 16:23:27 -0600
From: "Arny Krueger" <arnyk@hotpop.com>
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.anten
na,comp.sys.ibm.pc.soundcard.tech
References: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
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Subject: Re: Good sound card & software ?
Date: Mon, 19 Feb 2007 17:23:32 -0500
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X-Complaints-To: abuse@comcast.net
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.audio.opinion:61800 rec.audio.pro:93040
rec.radio.amateur.homebrew:9079 rec.radio.amateur.antenna:25414
comp.sys.ibm.pc.soundcard.tech:338
```

"Richard Clark" <kb7qhc@comcast.net> wrote in message

news:7o6kt2tdhlhdded5f6b1u8fc9v06u073vv@4ax.com
> On Mon, 19 Feb 2007 15:16:29 -0600, "Henry Kolesnik"
> <kolesnik@nojunksbcglobal.net> wrote:
>
>> There's a good example of a 3D plot here:
>> http://www.spectraplus.com/screenshots.html#3d
>> Has anyone used this software?
>
> Hi Hank,
>
> Yes, I have. It is exceedingly expensive, but you can
> probably get 30 days of free use if you have a one-time
> knock off project. Of course, it may take 30 days to
> figure it out.
>
> FFT analyzers are a dime a dozen, but few know how to use
> them accurately - or are even aware of what can be done
> with them. Bob's complaint, notwithstanding, a 1024 bin
> FFT employing the proper mixing inputs can resolve any
> note on a guitar to within hundredths of a cycle. I am
> sure this is of no interest to you, however.

Over the years, the most useful FFT software I've had, is the (fairly simple) FFT analyzer in Audition/CEP. It's big plus is the ability to use the Audition/CEP audio editor to select portions of real-world waveforms, and to use the wave generation and modification features to create waves for use in analysis and testing.

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From -4829727482732859603
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
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nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 19 Feb 2007 16:37:53 -0600
From: Richard Clark <kb7qhc@comcast.net>
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.anten
na,comp.sys.ibm.pc.soundcard.tech
Subject: Re: Good sound card & software ?
Date: Mon, 19 Feb 2007 14:35:46 -0800
Message-ID: <a79kt2tftdi93101vnonn4qvgbh8go39dt@4ax.com>
References: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
<45d9ad82.1201022@news.sysmatrix.net> <98rjt2tmesscthi5jk8s8knorfavn7ld3g@4ax.com>
<NsoCh.59361$QU1.47553@newssvr22.news.prodigy.net>
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ur7Zn7o30sE=
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X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.audio.opinion:61801 rec.audio.pro:93044
rec.radio.amateur.homebrew:9080 rec.radio.amateur.antenna:25418
comp.sys.ibm.pc.soundcard.tech:339

On Mon, 19 Feb 2007 17:23:32 -0500, "Arny Krueger" <arnyk@hotpop.com>
wrote:

>Over the years, the most useful FFT software I've had, is the (fairly
>simple) FFT analyzer in Audition/CEP. It's big plus is the ability to use
>the Audition/CEP audio editor to select portions of real-world waveforms,
>and to use the wave generation and modification features to create waves for
>use in analysis and testing.

Hi Arny,

I am sure this is an useful tool, but without windowing the data, any semblance to reasonable analysis is a house built on sand. I note in your provided link to work you have done that you use Blackman exclusively. This is at least a good first pass to achieving an analysis, but any variety of work is going to be more demanding (the Blackman window has its limitations), otherwise it is like looking through glasses smeared with Vaseline.

73's
Richard Clark, KB7QHC

From -8165287411929898015
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k78g2000cwa.googlegroups.com!not-for-mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: CW Bands
Date: 19 Feb 2007 15:53:04 -0800
Organization: http://groups.google.com
Lines: 10
Message-ID: <1171929184.125827.137750@k78g2000cwa.googlegroups.com>
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
   <z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net>
   <45D25B20.1090806@worldnet.att.net>
   <bx6Bh.18315$p9.3093@bignews7.bellsouth.net>
   <slrnetavn3.cf.gsm@cable.mendelson.com>
   <1171674635.846476.313740@s48g2000cws.googlegroups.com>
   <v7EBh.13287$B8.4679@bignews6.bellsouth.net>
   <1171830561.520342.64740@q2g2000cwa.googlegroups.com>
   <4TkBD9V8HN2FFAZs@ifwtech.co.uk>
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aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
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Xref: g2news2.google.com rec.radio.amateur.homebrew:9081

On Feb 19, 10:02?am, N...@AOL.COM wrote:

> Policy matters-arguments-discussions belong on
> rec.radio.amateur.policy.
>
> This newsgroup is for experimentation and building
> radio-electronics in the home workshop.
>
> LenAnderson@ieee.org

From -8101309220841689661
X-Google-Thread: fc2a5,61f995ce17ef3736
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X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!l53g2000cwa.googlegroups.com!not-for-
mail
From: N2EY@AOL.COM

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW Bands
Date: 19 Feb 2007 16:24:45 -0800
Organization: http://groups.google.com
Lines: 57
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   <v7EBh.13287$B8.4679@bignews6.bellsouth.net>
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   <1171858502.321693.286560@m58g2000cwm.googlegroups.com>
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NNTP-Posting-Date: Tue, 20 Feb 2007 00:25:09 +0000 (UTC)
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Complaints-To: groups-abuse@google.com
Injection-Info: l53g2000cwa.googlegroups.com; posting-host=64.12.117.15;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news2.google.com rec.radio.amateur.homebrew:9082

On Feb 19, 6:53=EF=BF=BDpm, "LenAnder...@ieee.org" <LenAnder...@ieee.org>
wrote:
> On Feb 19, 10:02?am, N...@AOL.COM wrote:

(whole lot of stuff that was snipped)

>
> =A0 =A0Policy matters-arguments-discussions belong on
> =A0 =A0rec.radio.amateur.policy.

Is this a moderated newsgroup?

Are you the moderator?
>
> =A0 =A0This newsgroup is for experimentation and building
> =A0 =A0radio-electronics in the home workshop.

Really?

The post of yours that I replied to contained comments
on the railroad system, landline telegraph communications,
Knott's Berry Farm and other tourist attractions, stagecoaches, wives-and-families, your lack of use of
Morse Code in military communications, your parents
watching the lunar landings on TV, and keyless auto security systems.

I don't see a single word from you in that posting
about "experimentation and building radio-electronics
in the home workshop."

It also contained this personal policy statement from you:

"I have nothing against telegraphic skills nor anyone using
those for personal pleasure. However, in the light of
advancement of the electronic arts, communications,
radio, methods that ALL of us can share, I think there
is an over-much emphasis by radio hobbyists on
telegraphic arts. Manual telegraphy IS a historic first
but it has been supplanted in practical communications
means at our disposal...on land, in the air, on the sea,
and in space.

I think we should be looking FORWARD to the future, not
back to the past. Others disagree. I leave it at that."

Sure sounds like you were having a policy discussion
to me!

Jim, N2EY

>
> =A0 =A0LenAnder...@ieee.org

From -4348742074915547466
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From: "Paul P" <paulREMOVE@REMOVEppinyotREMOVE.com>
Newsgroups:

rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Hammarlund HX-50 choke question.
Lines: 14
Organization: www.ppinyot.com
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
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Xref: g2news2.google.com rec.antiques.radio+phono:46903
rec.radio.amateur.boatanchors:7595 rec.radio.amateur.homebrew:9083

Does anyone have a guess what value choke L112 found here
http://www.ppinyot.com/hammarlund.htm#Power%20Supply%20Choke
might be? I am getting a 190 ac volt drop across this puppy. It has a cold
DC resistance of 97 ohms. How I got there is also explained at the
hyperlink page above.

The short of it is, the negative bias voltages are down across all
associated tubes that share that supply.   Google is no help.

Even a guess at this point would be nice. I have never calculated a choke
in this configuration before.
Paul P

From 41951976309918156
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spamkiller.gnilink.net!gnilink.net!trnddc04.POSTED!3b5fc0bf!not-for-mail
From: "Paul P" <paulREMOVE@REMOVEppinyotREMOVE.com>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
References: <PerCh.3042$vu2.1488@trnddc04>
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Lines: 4
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rec.radio.amateur.boatanchors:7596 rec.radio.amateur.homebrew:9084
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Go to the bottom of the page.
PP

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From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.anten
na,comp.sys.ibm.pc.soundcard.tech
References: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
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<NsoCh.59361$QU1.47553@newssvr22.news.prodigy.net>
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Lines: 68
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <tNrCh.59384$QU1.6999@newssvr22.news.prodigy.net>
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Date: Mon, 19 Feb 2007 19:03:20 -0600
Xref: g2news2.google.com rec.audio.opinion:61812 rec.audio.pro:93063
rec.radio.amateur.homebrew:9085 rec.radio.amateur.antenna:25422
comp.sys.ibm.pc.soundcard.tech:340

Amy, Bob, Richard
Thanks for your response and interest. I'm retired used to be an
engineer
before management laid waste to that. I've started taking weekly guitar
 lessons over a year ago and slowly getting a bit better. It's a hell
of a challenge at 66. I want
to buy a better guitar and all guitars don't sound the same, even the
same model. One shouldn't expect them to because they're all made from
different cuts of wood and assembled by human hands. What amazed me is
that the materials used for the nut, neck, saddle and bridge as well as
the mfg and age of the strings have a noticeable effect on the sound.
The bridge pins, angle of the strings out of the bridge pin holes and
tuners also have effects.
In the last year I found at least four guitars that I really liked, 3
used ones and a new one all over a $1000.00 but I passed because I'm not
that impulsive or flush with cash. A good player can make just about
any guitar sound good, or a hell of a lot better than me.
I'm into ham radio also and last year at hamfest I traded for an HP
3582A spectrum analyzer but the learning curve is a bit steep for me.
So unless I can find an experienced user or devote much more time to it
I'm going to have to trade it.
Last week I won an HP 3561A on ePay but it has a problem that I hope I
can fix. In the meantime I thought it might make sense to scope out
sound cards and related software. I know a lot of hams use sound cards
for various & different applications and it's about time I took a wack
at one and what better way than trying to figure out what it is that
makes one guitar sound so much better than another. Or if changing the
nut, saddle or bridge pins really improves the sound or is it just
wishful thinking.
And I can make use of it for ham radio weak signal detection and
analysis.
I used a term; slab diagrams which may be known as stack diagrams. I'm
interested in watching a plucked and later chords as they decay over
time in sort of a 3D plot. There's a good example of what I'm looking
for in the HP catalog describing the HP 3561A.
tnx

73
Hank WD5JFR

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:7o6kt2tdhlhdded5f6b1u8fc9v06u073vv@4ax.com...
> On Mon, 19 Feb 2007 15:16:29 -0600, "Henry Kolesnik"

```
> <kolesnik@nojunksbcglobal.net> wrote:
>
>>There's a good example of a 3D plot here:
>>http://www.spectraplus.com/screenshots.html#3d
>>Has anyone used this software?
>
> Hi Hank,
>
> Yes, I have.  It is exceedingly expensive, but you can probably get 30
> days of free use if you have a one-time knock off project.  Of course,
> it may take 30 days to figure it out.
>
> FFT analyzers are a dime a dozen, but few know how to use them
> accurately - or are even aware of what can be done with them.  Bob's
> complaint, notwithstanding, a 1024 bin FFT employing the proper mixing
> inputs can resolve any note on a guitar to within hundredths of a
> cycle.  I am sure this is of no interest to you, however.
>
> What are you trying to measure?  The dime a dozen analyzers (meaning
> free, or packaged with other software) can do enough if you are not
> particularly demanding.
>
> 73's
> Richard Clark, KB7QHC
```

```
From -4483665858149328325
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X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s48g2000cws.googlegroups.com!not-for-
mail
From: "laura halliday" <marsgal42@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Continuous Phase Modulation
Date: 19 Feb 2007 17:13:21 -0800
Organization: http://groups.google.com
Lines: 32
Message-ID: <1171934001.117432.106950@s48g2000cws.googlegroups.com>
References: <x5Mzh.1993$ov2.729@trndny06>
NNTP-Posting-Host: 198.162.90.176
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171934017 5940 127.0.0.1 (20 Feb 2007 01:13:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 20 Feb 2007 01:13:37 +0000 (UTC)
In-Reply-To: <x5Mzh.1993$ov2.729@trndny06>
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X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.10) Gecko/
20050716 Firefox/1.0.6,gzip(gfe),gzip(gfe)
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Injection-Info: s48g2000cws.googlegroups.com; posting-host=198.162.90.176;
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posting-account=hajlLgwAAABnEIYWRhxcLRahLr8hJUY4
Xref: g2news2.google.com rec.radio.amateur.homebrew:9086

On Feb 11, 1:42 pm, "W3JDR" <j...@roccis.com> wrote:
> Does anyone know if continuous phase modulation (CPM) of the RF carrier will
> work with PSK31 systems?
>
> (snip...)
>
> The DDS chips used in a lot of new QRP designs commonly have a programmable
> phase-offset register which adds a constant phase offset to the RF carrier
> generated by the chip in very small phase steps. It seems to me that a very
> well-controlled, constant envelope phase modulated signal could be generated
> by sequencing the phase offset register through all the values in a
> raised-cosine pulse prior at the transitions of each transmitted symbol.
> This would result in a very simple, bandwidth-efficient, constant-envelope
> PSK31 transmitter implementation in QRP rigs that employ DDS.
>
> (snip...)
>
> Is there a flaw in this reasoning?
>
> Joe
> W3JDR

The phase transitions will use bandwidth too.

We already know the power spectral density of PSK31.
What is the power spectral density of your proposal?
Numbers, please.

Laura Halliday VE7LDH   "Que les nuages soient notre
Grid: CN89mg   pied a terre..."
ICBM: 49 16.05 N 122 56.92 W   - Hospital/Shafte

From -8293413255123241009
X-Google-Thread: fc2a5,7543881186ba5b36
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!
trndny09.POSTED!0da99462!not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <x5Mzh.1993$ov2.729@trndny06>
<1171934001.117432.106950@s48g2000cws.googlegroups.com>
Subject: Re: Continuous Phase Modulation
Lines: 61
X-Priority: 3

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <OhsCh.3162$2w.606@trndny09>
Date: Tue, 20 Feb 2007 01:37:50 GMT
NNTP-Posting-Host: 68.236.45.224
X-Complaints-To: abuse@verizon.net
X-Trace: trndny09 1171935470 68.236.45.224 (Mon, 19 Feb 2007 20:37:50 EST)
NNTP-Posting-Date: Mon, 19 Feb 2007 20:37:50 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:9087

>The phase transitions will use bandwidth too.
What is the power spectral density of your proposal?
> Numbers, please.

Well of course any phase transitions will use bandwidth, but 1800 0.1 deg
transitions spaced out over 1/2 bit-time will will use less than a single
180 deg instantaneous transition, so it should be bandwidth-conservative. I
don't have the numbers (perhaps some of our more mathematical colleagues can
comment), but I'm sure the result will be a reduced-amplitude set of
low-order sidebands traded off for additional low-amplitude higher order
sidebands. My question wasn't whether the modulation would use less
bandwidth, but whether it would 'work' at the receiving end.

Joe
W3JDR

"laura halliday" <marsgal42@hotmail.com> wrote in message
news:1171934001.117432.106950@s48g2000cws.googlegroups.com...
> On Feb 11, 1:42 pm, "W3JDR" <j...@roccis.com> wrote:
>> Does anyone know if continuous phase modulation (CPM) of the RF carrier
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>> work with PSK31 systems?
>>
>> (snip...)
>>
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>> by sequencing the phase offset register through all the values in a
>> raised-cosine pulse prior at the transitions of each transmitted symbol.
>> This would result in a very simple, bandwidth-efficient,
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>> PSK31 transmitter implementation in QRP rigs that employ DDS.

```
>>
>> (snip...)
>>
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>>
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>> W3JDR
>
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>
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> What is the power spectral density of your proposal?
> Numbers, please.
>
> Laura Halliday VE7LDH     "Que les nuages soient notre
> Grid: CN89mg                    pied a terre..."
> ICBM: 49 16.05 N 122 56.92 W       - Hospital/Shafte
>




From 7329515404728351899
X-Google-Thread: 10c2ee,120657984dd7625c
X-Google-Thread: fc8b1,120657984dd7625c
X-Google-Thread: fc2a5,120657984dd7625c
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news1.google.com!news.maxwell.syr.edu!
newsfeed.icl.net!newsfeed.fjserv.net!newsfeed.freenet.de!feeder.news-service.com!
news2.euro.net!66.150.105.54.MISMATCH!nntpserver.com!zeus.nntpserver.com!
10.1.1.41.MISMATCH!pfilter-v0.1!not-for-mail
From: "Richard Knoppow" <dickburk@ix.netcom.com>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
References: <PerCh.3042$vu2.1488@trnddc04>
Subject: Re: Hammarlund HX-50 choke question.
Date: Mon, 19 Feb 2007 17:59:57 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Lines: 63
Message-ID: <45da4993$0$16391$88260bb3@free.teranews.com>
NNTP-Posting-Date: 20 Feb 2007 01:06:28 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.antiques.radio+phono:46917
rec.radio.amateur.boatanchors:7599 rec.radio.amateur.homebrew:9088


"Paul P" <paulREMOVE@REMOVEppinyotREMOVE.com> wrote in
message news:PerCh.3042$vu2.1488@trnddc04...
```

> Does anyone have a guess what value choke L112 found here
> http://www.ppinyot.com/hammarlund.htm#Power%20Supply%20Choke
> might be? I am getting a 190 ac volt drop across this
> puppy. It has a cold
> DC resistance of 97 ohms. How I got there is also
> explained at the
> hyperlink page above.
>
> The short of it is, the negative bias voltages are down
> across all
> associated tubes that share that supply.   Google is no
> help.
>
> Even a guess at this point would be nice. I have never
> calculated a choke in this configuration before.
> Paul P
>

Just some thinking out loud (or maybe its finger thinking).

1, Problems with chokes are usually either open windings, shorted windings, or shorts to the case or core. Open windings result in very high resistance or a completely open circuit. Shorted windings result in lower than normal DC resistance and lower than normal inductance. Shorts to the case or core can be checked with an ohm meter. One can also get high resistance "shorts" resulting in leakage from winding to core. This is best tested using a special very high resistance ohm meter. In any case, it does not sound like you are having any of these problems.

The HX-50 appears to have three supplies, a high voltage supply using the 5R4 rectifier with plates connected to the outer windings of the xfmr, a low voltage supply using the silicon diodes connected to the inner windings, and a negative or bias supply using a single silicon diode (CR-106) connected to the tap on the winding. If your bias voltages are down but the B+ voltages are about normal I would suspect the bias supply. Its possible the diode is bad but they usually go either all the way open or all the way shorted. A multimeter will check it. I am more suspicious of the filter capacitors, C-176, C-177. Its also possible that something has happened to R-168, the current limiting resistor, or, perhaps one of the other resistors.

I wonder if anyone has a cross-reference between Hammarlund part numbers and their specifications. I ran across a web site that has a cross-reference between "old" and "new" H part numbers, perhaps there is somesort of catalogue there. I haven't looked. It would be useful to know the inductance of L-112 and its DC resistance. The inductance being off would also be an indicator of problem. Again, if its the bias supply that has the problem I think the choke is a red herring.

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--
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Richard Knoppow
Los Angeles, CA, USA
dickburk@ix.netcom.com




--
Posted via a free Usenet account from http://www.teranews.com




From 3915268386477176267
X-Google-Thread: fcc6e,ad01fda759cc0971,start
X-Google-Thread: 11480d,ad01fda759cc0971,start
X-Google-Thread: 108122,ad01fda759cc0971,start
X-Google-Thread: fc2a5,ad01fda759cc0971,start
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!novia!
sequencer.newscene.com!not-for-mail
From: "Paul W. Schleck, K3FU" <pschleck@novia.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.rad
io.amateur.homebrew
Subject: RESULT: rec.radio.amateur.moderated will be created
Followup-To: news.groups.proposals
Date: 19 Feb 2007 21:47:01 -0600
Organization: Novia Internetworking, http://www.novia.net/
Lines: 20
Message-ID: <45da6ec5$0$37549$540ea2cf@novia.net>
User-Agent: nn/6.7.3
Xref: g2news2.google.com rec.radio.amateur.antenna:25432 rec.radio.amateur.dx:2801
rec.radio.amateur.equipment:8071 rec.radio.amateur.homebrew:9089

The following was just posted to Usenet by the news.announce.newgroups
moderator on behalf of the Big-8 Management Board:

http://www.big-8.org/dokuwiki/doku.php?id=nan:2007-02-19-
rec.radio.amateur.moderated-result

This is a creation announcement for a new moderated discussion newsgroup
for amateur radio on Usenet.  It has been relayed to
rec.radio.amateur.antenna, rec.radio.amateur.dx,
rec.radio.amateur.equipment, and rec.radio.amateur.homebrew, as
announced above.  Please consult with your local news server
administrators regarding the creation of this newsgroup after a newgroup
control message is sent on or about Thursday, February 22, 2007.

--
73, Paul W. Schleck, K3FU
```

pschleck@novia.net
http://www.novia.net/~pschleck/
Finger pschleck@novia.net for PGP Public Key

```
From 803892061430167011
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X-Google-Attributes: gid10d85e,gid10cf58,gidfc2a5,gidfcc6e,gid1021cd,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr29.news.prodigy.net.POSTED!cbfe50c9!not-for-
mail
From: Jenn <jennconductsREMOVETHIS@hotmail.com>
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.anten
na,comp.sys.ibm.pc.soundcard.tech
Subject: Re: Good sound card & software ?
References: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
<45d9ad82.1201022@news.sysmatrix.net> <98rjt2tmesscthi5jk8s8knorfavn7ld3g@4ax.com>
<NsoCh.59361$QU1.47553@newssvr22.news.prodigy.net>
<7o6kt2tdhlhdded5f6b1u8fc9v06u073vv@4ax.com>
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Message-ID:
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X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr29.news.prodigy.net 1171949237 ST000 69.111.245.140 (Tue, 20 Feb
2007 00:27:17 EST)
NNTP-Posting-Date: Tue, 20 Feb 2007 00:27:17 EST
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rec.radio.amateur.homebrew:9090 rec.radio.amateur.antenna:25435
comp.sys.ibm.pc.soundcard.tech:341
```

In article <tNrCh.59384$QU1.6999@newssvr22.news.prodigy.net>,
"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote:

> Amy, Bob, Richard
> Thanks for your response and interest. I'm retired used to be an

> engineer
> before management laid waste to that. I've started taking weekly guitar
> lessons over a year ago and slowly getting a bit better. It's a hell
> of a challenge at 66. I want
> to buy a better guitar and all guitars don't sound the same, even the
> same model. One shouldn't expect them to because they're all made from
> different cuts of wood and assembled by human hands. What amazed me is
> that the materials used for the nut, neck, saddle and bridge as well as
> the mfg and age of the strings have a noticeable effect on the sound.
> The bridge pins, angle of the strings out of the bridge pin holes and
> tuners also have effects.
> In the last year I found at least four guitars that I really liked, 3
> used ones and a new one all over a $1000.00 but I passed because I'm not
> that impulsive or flush with cash. A good player can make just about
> any guitar sound good, or a hell of a lot better than me.
> I'm into ham radio also and last year at hamfest I traded for an HP
> 3582A spectrum analyzer but the learning curve is a bit steep for me.
> So unless I can find an experienced user or devote much more time to it
> I'm going to have to trade it.
> Last week I won an HP 3561A on ePay but it has a problem that I hope I
> can fix. In the meantime I thought it might make sense to scope out
> sound cards and related software. I know a lot of hams use sound cards
> for various & different applications and it's about time I took a wack
> at one and what better way than trying to figure out what it is that
> makes one guitar sound so much better than another. Or if changing the
> nut, saddle or bridge pins really improves the sound or is it just
> wishful thinking.

What a neat project!

I can tell you, based on years of experience with changing out the parts
that you mentioned (nut, saddle, bridge, pins, ESPECIALLY break angle)
that these things DO make a difference in the sound. I have NOT heard a
difference with changes of neck or tuners (certainly these things affect
the intonation of the instrument, but I've never known then to change
the quality of sound).

However, the choice of wood, body shape, and top bracing are far more
relevant. You might want to check with Martin, Taylor, Larrivee, et al
to see if they have any scientific info that can help you. They aren't
in the business of pushing pins, tuners, etc.

Good luck and please post what you find out!

(Since this is RAO, I should point out that my hearing of the things
mentioned in my second paragraph above is based on differences heard
based on changes made to the instruments when it wasn't possible to know
about the changes.)

```
From -3644442767l8097047
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X-Google-Thread: 10cf58,cfa01e565e46a6bb
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X-Google-Attributes: gid10d85e,gid10cf58,gidfc2a5,gidfcc6e,gid1021cd,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!newshub.sdsu.edu!
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postmaster.news.prodigy.com!newssvr11.news.prodigy.net.POSTED!c4667c2f!not-for-
mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.anten
na,comp.sys.ibm.pc.soundcard.tech
References: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
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<NsoCh.59361$QU1.47553@newssvr22.news.prodigy.net>
<7o6kt2tdhlhdded5f6b1u8fc9v06u073vv@4ax.com>
<tNrCh.59384$QU1.6999@newssvr22.news.prodigy.net>
<jennconductsREMOVETHIS-3BDA3E.21271619022007@newsclstr02.news.prodigy.com>
Subject: Re: Good sound card & software ?
Lines: 95
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     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <iDCCh.15863$O02.10206@newssvr11.news.prodigy.net>
NNTP-Posting-Host: 70.234.41.99
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr11.news.prodigy.net 1171977806 ST000 70.234.41.99 (Tue, 20 Feb
2007 08:23:26 EST)
NNTP-Posting-Date: Tue, 20 Feb 2007 08:23:26 EST
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QCOA_SAH@TPD^\AL\RLGRFWEARBM
Date: Tue, 20 Feb 2007 13:23:26 GMT
Xref: g2news2.google.com rec.audio.opinion:61853 rec.audio.pro:93123
rec.radio.amateur.homebrew:9091 rec.radio.amateur.antenna:25437
comp.sys.ibm.pc.soundcard.tech:342
```

Jenn
The neck wood affects the sound energy as it goes from the nut vibrate
the guitar and so does the truss rod. Tuners can influence the sound
because their weight can dampen vibrations. An interesting thing is to
hold a tuner lightly (or the headstock) when
you pluck a string and feel the vibrations.
A good analysis should be able to detect loose bracing and you should
also be able to see the effects of scalloped bracing.

I shotgunned this query because I didn't know where I would find the
most help. If responders can suggest a group I could limit it and not
waste time of those who aren't interested.
I've also made unconnected posts to other groups, but have less interest
and reponse so far.
I didn't post to any guitar groups because most there are musicians that
don't need this kind of crutch and have an ear that's been trained for
many years. I want to see if I can catch up by being able to see.
In addition it should be helpful in voice training which I also need
because I'm trying but with less success to sing.

73
Hank WD5JFR

"Jenn" <jennconductsREMOVETHIS@hotmail.com> wrote in message
news:jennconductsREMOVETHIS-3BDA3E.21271619022007@newsclstr02.news.prodigy.com...
> In article <tNrCh.59384$QU1.6999@newssvr22.news.prodigy.net>,
> "Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote:
>
>> Amy, Bob, Richard
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>> from
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>> The bridge pins, angle of the strings out of the bridge pin holes and
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>> that impulsive or flush with cash. A good player can make just about
>> any guitar sound good, or a hell of a lot better than me.
>> I'm into ham radio also and last year at hamfest I traded for an HP
>> 3582A spectrum analyzer but the learning curve is a bit steep for me.
>> So unless I can find an experienced user or devote much more time to
>> it
>> I'm going to have to trade it.
>> Last week I won an HP 3561A on ePay but it has a problem that I hope
>> I
>> can fix. In the meantime I thought it might make sense to scope out
>> sound cards and related software. I know a lot of hams use sound
>> cards
>> for various & different applications and it's about time I took a

```
>> wack
>> at one and what better way than trying to figure out what it is that
>> makes one guitar sound so much better than another.  Or if changing
>> the
>> nut, saddle or bridge pins really improves the sound or is it just
>> wishful thinking.
>
> What a neat project!
>
> I can tell you, based on years of experience with changing out the
> parts
> that you mentioned (nut, saddle, bridge, pins, ESPECIALLY break angle)
> that these things DO make a difference in the sound.  I have NOT heard
> a
> difference with changes of neck or tuners (certainly these things
> affect
> the intonation of the instrument, but I've never known then to change
> the quality of sound).
>
> However, the choice of wood, body shape, and top bracing are far more
> relevant.  You might want to check with Martin, Taylor, Larrivee, et
> al
> to see if they have any scientific info that can help you.  They
> aren't
> in the business of pushing pins, tuners, etc.
>
> Good luck and please post what you find out!
>
> (Since this is RAO, I should point out that my hearing of the things
> mentioned in my second paragraph above is based on differences heard
> based on changes made to the instruments when it wasn't possible to
> know
> about the changes.)



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token.pipenetworks.com!218.100.2.59.MISMATCH!not-for-mail
From: packer@iprimus.com.au (paul packer)
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.anten
na,comp.sys.ibm.pc.soundcard.tech
Subject: Re: Good sound card & software ?
Date: Tue, 20 Feb 2007 13:29:25 GMT
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X-Complaints-To: Abuse, including message IDs to abuse@pipenetworks.com
Xref: g2news2.google.com rec.audio.opinion:61857 rec.audio.pro:93125
rec.radio.amateur.homebrew:9092 rec.radio.amateur.antenna:25438
comp.sys.ibm.pc.soundcard.tech:343

On Tue, 20 Feb 2007 05:27:17 GMT, Jenn
<jennconductsREMOVETHIS@hotmail.com> wrote:

>(Since this is RAO, I should point out that my hearing of the things
>mentioned in my second paragraph above is based on differences heard
>based on changes made to the instruments when it wasn't possible to know
>about the changes.)

Eh?

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news.sysmatrix.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 20 Feb 2007 08:02:28 -0600
From: NoSpam@daqarta.com (Bob Masta)
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.anten
na,comp.sys.ibm.pc.soundcard.tech
Subject: Re: Good sound card & software ?
Date: Tue, 20 Feb 2007 14:04:19 GMT
Organization: Interstellar Research
Reply-To: NoSpam@daqarta.com

Message-ID: <45dafa62.615953@news.sysmatrix.net>
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properly
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rec.radio.amateur.homebrew:9093 rec.radio.amateur.antenna:25439
comp.sys.ibm.pc.soundcard.tech:344

On Mon, 19 Feb 2007 10:34:50 -0800, Richard Clark <kb7qhc@comcast.net>
wrote:

>On Mon, 19 Feb 2007 14:06:30 GMT, NoSpam@daqarta.com (Bob Masta)
>wrote:
>
>>FFT size is 1024 points, so you won't be able to use
>>this for tuning your guitar, if that's what you had in mind.
>
>Hi Bob,
>
>Why not? 1024 points (bins) has enough resolution to shake out every
>note on a Hawaiian slide guitar. The only care is selecting the
>sampling rate and most FFT packages should be able to resolve
>exceedingly fine.
>

The problem is that the line resolution of an FFT is the sample
rate divided by the number of time points. So with 44100 Hz
sample rate and 1024 points you get a bit over 43 Hz per line.
So the first non-DC spectral line would be 43 Hz, which is about
a low F on a bass guitar, and the very next line would be the F
an octave above that... you'd miss an entire octave!

The standard musical note frequencies (semitones) differ
from each other by about 6% (12th root of 2, since there are
12 notes in an "octave"). But you need much better
resolution than this for tuning, typically a "cent" or so,
namely 1/100 of a semitone or .06%.   At 43 Hz that
works out to about 0.026 Hz.   A 64K-point FFT
at 44100 Hz will have a native resolution of 0.67 Hz,
which still isn't good enough... but at 64K samples,
you are looking at 1.48 seconds of sound. If the

pitch changes over that interval, the spectral peak will be smeared even further.

If you attempt to beat this game by going to lower sample rates, note that frequency resolution is still proportional to the inverse of the total sampling interval. So if you tried to use the 1K FFT but sample at 44100 / 64 = 689 Hz to get the same (inadequate) resolution as the above 64K FFT, you'd still need 1.48 seconds of sound.   Sound cards don't sample that low intrinsically (typically 8K lower limit, 4K on old Sound Blasters), but you might manage using sample rate conversion (either Windows or sound card built-in). I haven't tried this, but I suspect that it would not be a satisfying experience due to the s-l-o-w time response.

Best regards,

Bob Masta

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From 6100010175934141118
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NNTP-Posting-Date: Tue, 20 Feb 2007 08:17:04 -0600
From: NoSpam@daqarta.com (Bob Masta)
Newsgroups: rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,comp.sys.ibm.pc.soundcard.tech
Subject: Re: Good sound card & software ?
Date: Tue, 20 Feb 2007 14:18:56 GMT
Organization: Interstellar Research
Reply-To: NoSpam@daqarta.com
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rec.radio.amateur.homebrew:9094 rec.radio.amateur.antenna:25440
comp.sys.ibm.pc.soundcard.tech:345

On Mon, 19 Feb 2007 14:08:54 -0800, Richard Clark <kb7qhc@comcast.net>
wrote:

>On Mon, 19 Feb 2007 15:16:29 -0600, "Henry Kolesnik"
><kolesnik@nojunksbcglobal.net> wrote:
>
>>There's a good example of a 3D plot here:
>>http://www.spectraplus.com/screenshots.html#3d
>>Has anyone used this software?
>
>Hi Hank,
>
>Yes, I have.  It is exceedingly expensive, but you can probably get 30
>days of free use if you have a one-time knock off project.  Of course,
>it may take 30 days to figure it out.
>
>FFT analyzers are a dime a dozen, but few know how to use them
>accurately - or are even aware of what can be done with them.  Bob's
>complaint, notwithstanding, a 1024 bin FFT employing the proper mixing
>inputs can resolve any note on a guitar to within hundredths of a
>cycle.  I am sure this is of no interest to you, however.

Yes, you can easily resolve to 100ths of a cycle, but not from
a native FFT.  (See my other response.)   You can do it from
the waveform by measuring the time between cycles.  That's
one of the methods I'm working on.  The other is to do it from
the FFT via peak interpolation.  The waveform method will
be very accurate with simple static waveforms, but I expect it
will have trouble with the 2nd harmonic of a plucked string,
which is not an integer multiple so "rolls" through the waveform.
The FFT interpolator will not have the same raw accuracy, and must
have absolutely separated spectral peaks since it assumes the
one it's interpolating is the only one.  I'm not hopeful it can be
made good enough to tune a guitar, at least not in the bottom
```

octave where the harmonics land on adjacent spectral lines.

Best regards,

Bob Masta

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From 1806403933166013999
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out.readnews.com!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: Hammarlund HX-50 choke question.
Date: 20 Feb 2007 09:39:24 -0500
Organization: Former users of Netcom shell (1989-2000)
Lines: 33
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Xref: g2news2.google.com rec.antiques.radio+phono:46950
rec.radio.amateur.boatanchors:7604 rec.radio.amateur.homebrew:9095

Paul P <paulREMOVE@REMOVEppinyotREMOVE.com> wrote:
>Does anyone have a guess what value choke L112 found here
>http://www.ppinyot.com/hammarlund.htm#Power%20Supply%20Choke
>might be? I am getting a 190 ac volt drop across this puppy. It has a cold
>DC resistance of 97 ohms. How I got there is also explained at the
>hyperlink page above.
>
>The short of it is, the negative bias voltages are down across all
>associated tubes that share that supply.   Google is no help.
>
>Even a guess at this point would be nice. I have never calculated a choke
>in this configuration before.

The choke has AC going through it, since it's on the input side of the rectifier. My guess is that it's not just a normal choke but is a swinging choke with a controlled saturation characteristic. It's acting as a current regulator; as current rises the magnetic flux in the core rises and at some point the core saturates and the impedance of the winding shoots way up, reducing the current flow.

A 190V drop across it might be normal, or it might be a sign you are trying to pull way too much current through the thing. What voltages do you measure across C162 sections A and B? They should be fairly close to the maximum capacitor ratings, I suspect. If they are within a reasonable range, I'd say the swinging choke is fine, otherwise I'd suspect something is on the secondary side is pulling too much current and it's hit the wall.

If it IS failed, Peter Dahl can probably rebuild it. You won't be able to just drop in something off the shelf, and sadly design of saturable reactors and magnetic controls and amplifiers is a lost art today.
--scott
--
"C'est un Nagra. C'est suisse, et tres, tres precis."

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NNTP-Posting-Date: Tue, 20 Feb 2007 08:58:29 -0600
From: "Arny Krueger" <arnyk@hotpop.com>
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.anten
na,comp.sys.ibm.pc.soundcard.tech
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rec.radio.amateur.homebrew:9096 rec.radio.amateur.antenna:25442
comp.sys.ibm.pc.soundcard.tech:346

"paul packer" <packer@iprimus.com.au> wrote in message
news:45daf7a1.52430875@news.iprimus.com.au
> On Tue, 20 Feb 2007 05:27:17 GMT, Jenn
> <jennconductsREMOVETHIS@hotmail.com> wrote:
>
>
>> (Since this is RAO, I should point out that my hearing
>> of the things mentioned in my second paragraph above is
>> based on differences heard based on changes made to the
>> instruments when it wasn't possible to know about the
>> changes.)
>
> Eh?

Jenn apparently thinks that the changes in SQ that come from modifying the
working parts of musical instruments are fully comparable to say, adding one
more strand of wire to a speaker cable composed of finely stranded wilre.

From 8925999956223496112
X-Google-Thread: 10d85e,cfa01e565e46a6bb
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NNTP-Posting-Date: Tue, 20 Feb 2007 09:01:03 -0600
From: "Arny Krueger" <arnyk@hotpop.com>
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.anten

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na,comp.sys.ibm.pc.soundcard.tech
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Date: Tue, 20 Feb 2007 10:01:08 -0500
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X-RFC2646: Format=Flowed; Original
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
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comp.sys.ibm.pc.soundcard.tech:347
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"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:a79kt2tftdi93101vnonn4qvgbh8go39dt@4ax.com
> On Mon, 19 Feb 2007 17:23:32 -0500, "Arny Krueger"
> <arnyk@hotpop.com> wrote:
>
>> Over the years, the most useful FFT software I've had,
>> is the (fairly simple) FFT analyzer in Audition/CEP.
>> It's big plus is the ability to use the Audition/CEP
>> audio editor to select portions of real-world waveforms,
>> and to use the wave generation and modification features
>> to create waves for use in analysis and testing.

> I am sure this is an useful tool, but without windowing
> the data, any semblance to reasonable analysis is a house
> built on sand.

So you think that the FFT analysis tool in CEP doesn't do windowing?????

> I note in your provided link to work you
> have done that you use Blackman exclusively. This is at
> least a good first pass to achieving an analysis, but any
> variety of work is going to be more demanding (the

> Blackman window has its limitations), otherwise it is
> like looking through glasses smeared with Vaseline.

So you think that Spectra doesn't provide options for windowing and/or that
I have no idea what effect they have on actual results????

From -3531577548197780803
X-Google-Thread: 10c2ee,120657984dd7625c
X-Google-Thread: fc8b1,120657984dd7625c
X-Google-Thread: fc2a5,120657984dd7625c
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!
not-for-mail
NNTP-Posting-Date: Tue, 20 Feb 2007 09:56:23 -0600
Date: Tue, 20 Feb 2007 10:54:42 -0500
From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.0.8) Gecko/20061029
SeaMonkey/1.0.6
MIME-Version: 1.0
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: Hammarlund HX-50 choke question.
References: <PerCh.3042$vu2.1488@trnddc04> <erf16s$np9$1@panix2.panix.com>
In-Reply-To: <erf16s$np9$1@panix2.panix.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <DNqdnbF_qam6h0bYnZ2dnUVZ_sWdnZ2d@rcn.net>
Lines: 28
NNTP-Posting-Host: 72.83.120.154
X-Trace: sv3-3yBwwxGpqcBrd16lPyLXK20XPinzxgo/
o8rd0hgYKrcQtcKUbkZe0go8MibjYUdw4AbTmFGWFTehlSp!
4SWh6nnr5iHs1mSt56gHqCblF2djIxmlN0wXVcZcc0UIo3E+YLbjoUxUyjaDLjKvAbjdIvFnTulL!
1rU+1UBhovHC
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.antiques.radio+phono:46952
rec.radio.amateur.boatanchors:7605 rec.radio.amateur.homebrew:9098

Scott Dorsey wrote:
> Paul P <paulREMOVE@REMOVEppinyotREMOVE.com> wrote:
>> Does anyone have a guess what value choke L112 found here
>> http://www.ppinyot.com/hammarlund.htm#Power%20Supply%20Choke
>> might be? I am getting a 190 ac volt drop across this puppy. It has a cold

>> DC resistance of 97 ohms. How I got there is also explained at the
>> hyperlink page above.
>>
>> The short of it is, the negative bias voltages are down across all
>> associated tubes that share that supply.   Google is no help.
>>
>> Even a guess at this point would be nice. I have never calculated a choke
>> in this configuration before.
>
> The choke has AC going through it, since it's on the input side of the
> rectifier. My guess is that it's not just a normal choke but is a swinging
> choke with a controlled saturation characteristic. It's acting as a
> current regulator; as current rises the magnetic flux in the core rises
> and at some point the core saturates and the impedance of the winding shoots
> way up, reducing the current flow.

But that is exactly backwards from the way chokes work. As the current rises, and the core approaches saturation, the coil starts to lose the inductance enhancement provided by the core, and it approaches the inductance of an equivalent air core choke. That is, the inductance *drops*, and the inductive reactance *drops* and the AC current shoots way up.

-Chuck

From 6452522972350962587
X-Google-Thread: 1135a8,69346d061b314d78,start
X-Google-Thread: 10bf43,7955bb4df3542e38
X-Google-Thread: fc2a5,69346d061b314d78,start
X-Google-Thread: 10f7a7,69346d061b314d78,start
X-Google-Thread: 106d41,69346d061b314d78,start
X-Google-Attributes: gid1135a8,gid10bf43,gidfc2a5,gid10f7a7,gid106d41,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!s48g2000cws.googlegroups.com!not-for-mail
From: Socks_Fever@yahoo.com
Newsgroups:
alt.autos.mini,rec.radio.amateur.policy,rec.radio.amateur.homebrew,alt.usenet.kooks,rec.radio.cb
Subject: Re: CW Bands (was in Homebrew)
Date: 20 Feb 2007 09:29:15 -0800
Organization: http://groups.google.com
Lines: 295
Message-ID: <1171992555.689140.235740@s48g2000cws.googlegroups.com>
References: <1171949849.873175.240950@a75g2000cwd.googlegroups.com>
NNTP-Posting-Host: 152.163.100.14
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1171992568 14668 127.0.0.1 (20 Feb 2007 17:29:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 20 Feb 2007 17:29:28 +0000 (UTC)
In-Reply-To: <1171949849.873175.240950@a75g2000cwd.googlegroups.com>

```
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 5.1;
yie6),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 Turboweb
[rtc-tb104 8.4.1], HTTP/1.1 cache-rtc-aa10.proxy.aol.com[98A3640E] (Traffic-
Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: s48g2000cws.googlegroups.com; posting-host=152.163.100.14;
   posting-account=o8ofrg0AAACSOD4WbdN4ILZA_PL-BPLj
Xref: g2news2.google.com alt.autos.mini:6468 rec.radio.amateur.policy:66441
rec.radio.amateur.homebrew:9099 alt.usenet.kooks:319384 rec.radio.cb:25668

On Feb 19, 11:37=EF=BF=BDpm, "LenAnder...@ieee.org" <LenAnder...@ieee.org>
wrote:
> =A0 =A0Oh, my, some SPITE was carried over to homebrew on
> =A0 =A0Presidents Day just because "CW" was discussed. =A0I am
> =A0 =A0bringing it back to policy where it should go until
> =A0 =A0the moderated newsgroup is open.
>
> =A0 =A0Be aware that this thread in RRAH started with a simple
> =A0 =A0question by another asking if FCC 06-178 would "eliminate
> =A0 =A0the CW bands" [in amateur radio operation] =A0That was
> =A0 =A0answered. =A0After that it segued into discussion of early
> =A0 =A0(pre-1900) use of morse code then it was triggered into
> =A0 =A0modern times by those who feel that "CW" MUST be given
> =A0 =A0ten kinds of attention than anything else. =A0Miccolis
> =A0 =A0*HAD* to make noise in his usual manner there even though
> =A0 =A0he was not involved.
>
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
>
> WAS in Newsgroup: rec.radio.amateur.homebrew
> From: N...@AOL.COM
> Date: 19 Feb 2007 10:02:39 -0800
> Local: Mon, Feb 19 2007 10:02 am
> Subject: Re: CW Bands
>
> >On Feb 18, 11:15?pm, "LenAnder...@ieee.org" wrote:
> >>Ian White GM3SEK <gm3...@ifwtech.co.uk> wrote on Sun, 18 Feb 2007
> >Actually, that depends on how you define "biggest".
>
> =A0 =A0Whatever YOU have is 'always' biggest. =A0Yes, we all know.
> =A0 =A0:-)
>
> >> ? ?I first "fired up" on HF in February 1953, part of my being
> >> ? ?assigned to a US Army communications station in Tokyo. ?
>
> =A0 =A0Incorrect quotation. =A0I did not write those question marks.
>
> =A0 =A0Other than that, a 20-page photo essay describing what
> =A0 =A0was done over a three-year period is a free download:
```

>
> =A0 =A0http://sujan.hallikainen.org/BroadcastHistory/uploads/My3Years.pdf
>
> =A0 =A0On a dial-up connection that will take about 18 minutes and
> =A0 =A0is about 6 MB in size.
>
> >A station that was maintained by several hundred Army personnel.
>
> =A0 =A0It was? =A0Were you THERE? =A0No, you were busy gestating
> =A0 =A0at the time, hadn't emerged yet.
>
> =A0 =A0Sorry, but I don't have a COMPLETE T.O.& E. (Table of
> =A0 =A0Organization and Equipment) of the Battalion and can
> =A0 =A0only approximate the number of personnel by direct
> =A0 =A0visual observation being IN that battalion.
>
> >> =A0 =A0That
> >> ? ?was a small 1 KW HF transmitter using TTY FSK. ?There were
> >> ? ?three dozen other transmitters there; six more would be
> >> ? ?added by 1955. ?NONE of the radio circuits of this 3rd
> >> ? ?largest Army station used any OOK CW mode of modulation.
>
> =A0 =A0Incorrect quotation. =A0I did not write those question marks.
>
> >However, that was one station in one place.
>
> =A0 =A0Yes, amazing deduction, Sherlock Miccolis! =A0:-)
>
> =A0 =A0The other stations of ACAN, the Army Command and Administrative
> =A0 =A0Network (the acronym of that time) were at Ft. Detrick, MD,
> =A0 =A0[WAR, the center point for this worldwide network], plus (to
> =A0 =A0the circuits of ADA in ACAN) Anchorage, Alaska, Seattle, WA,
> =A0 =A0San Francisco, CA (actually Davis, CA, outside of San Fran),
> =A0 =A0Honolulu, Hawaii, Manila in the Phillippines, Okinawa, Pusan
> =A0 =A0and Seoul, Korea, and Saigon, Vietnam. =A0Once a month there
> =A0 =A0was a test period of communications to Asmara, Eritrea to
> =A0 =A0check predicted propagation from Asia into east Africa.
> =A0 =A0Another free upload:
>
> =A0 =A0http://sujan.hallikainen.org/BroadcastHistory/uploads/AlphabetSoup=
.pdf
>
> =A0 =A0Shows a map of the radio circuits as they were about 1963
> =A0 =A0for ADA into an enlarged ACAN...the network having changed
> =A0 =A0its name. =A0There and on the Links section for US Army in
> =A0 =A0Europe (USAEUR) private historical site is the full TTY
> =A0 =A0message routing paths over the world. =A0Note that the TTY
> =A0 =A0message address preamble would use the "Rxxx" designator,
> =A0 =A0NOT the originating or final receiving Army radio station
> =A0 =A0callsign. =A0ADA in Tokyo was "RUAP" and WAR at Ft. Detrick
> =A0 =A0was "RUEP."
>
> >It was not necessarily

```
> >representative of all military radio communications at the time, nor
> >of amateur radio communications, then or now.
>
> =A0 =A0"Not necessarily representative of 'all military radio
> =A0 =A0communications at the time?" =A0Silly little man, this
> =A0 =A0was a specific period of 1953 to 1956 when I was a
> =A0 =A0PART of that operation, IN the US Army, a station that
> =A0 =A0was under Central Command, US Army in Japan, supporting
> =A0 =A0the Far East Command Headquarters then in Tokyo. =A0I've
> =A0 =A0not claimed otherwise.
>
> =A0 =A0However, the photo essay manuscript was sent to Mr.
> =A0 =A0James Brendage, a now-retired civilian engineer who
> =A0 =A0was THERE and working IN that facility. =A0Jim Brendage
> =A0 =A0sent me in return supplementary material that was
> =A0 =A0produced by that Signal Battalion after I left. =A0That
> =A0 =A0(digitzed) became the other document at Hal
> =A0 =A0Hallikainen's site called "AlphabetSoup." =A0I received
> =A0 =A0other photos and documents from Jim Brendage and
> =A0 =A0exchanged information about the late Walter Ross, an
> =A0 =A0RCA (EASD, Van Nuys, CA) staff engineer (in my working
> =A0 =A0group at RCA!) who had also worked at ADA as a civilian
> =A0 =A0engineer before I was assigned there. =A0Walt had seen
> =A0 =A0some of the 600 color slides I had taken at ADA and
> =A0 =A0didn't say they were incorrect or faulty.
>
> =A0 =A0In addition to that, I've been in e-contact with a
> =A0 =A0retired USAF MSgt who had worked at the new ADA
> =A0 =A0transmitter site after 1963 and the USAF having been
> =A0 =A0assigned responsibility there. =A0We shared much info,
> =A0 =A0with him interested in "how it was in the beginning"
> =A0 =A0meaning the 1954 time that I helped move the trans-
> =A0 =A0mitter site up to Kashiwa, Japan. =A0Worse yet (for you)
> =A0 =A0is that I've maintained e-contact with a licensed
> =A0 =A0radio amateur (and licensed radio professional) now
> =A0 =A0retired from the FAA who was assigned to the SAME
> =A0 =A0battalion, SAME company, SAME duties at the ADA
> =A0 =A0transmitter site but on another of the four operating
> =A0 =A0teams. =A0Gene can verify as to my accuracy in the
> =A0 =A0photo essay.
>
> =A0 =A0I've never claimed my military assignment involved
> =A0 =A0amateur radio. =A0At best, one radio circuit was available
> =A0 =A0to the Tokyo MARS facility on a third-priority basis,
> =A0 =A0RTTY only. =A0MARS operations in Tokyo were divorced
> =A0 =A0from the ACAN network administration some time in
> =A0 =A01955. =A0MARS does not, cannot operate IN USA amateur
> =A0 =A0bands...it is under the directorate of the Department
> =A0 =A0of Defense.
>
> =A0 =A0However, technology-wise, a vacuum tube power amplifier
> =A0 =A0stage for HF range operates the SAME for amateur or
> =A0 =A0commercial applications now in 2007. =A0The rule of
> =A0 =A0thumb in tuning tube power amplifiers is the same
> =A0 =A0now as it was a half century ago, "peak the grid and
> =A0 =A0dip the plate." [referring to currents]
>
> >> ? ?In my subsequent career change after service into
> >> ? ?electronics design engineer I've never had a requirement
> >> ? ?to use OOK CW on radio. ?
>
> =A0 =A0INCORRECT quotation. =A0I did not write those question
> =A0 =A0marks. =A0Try not to selectively EDIT quotations.
>
> >You have also never been a radio amateur.
>
> =A0 =A0I've never claimed to be one.
>
> > Nor a professional radio operator.
>
> =A0 =A0INCORRECT. =A0WRONG. =A0MISTAKE. =A0BULLSHIT, little man.
>
> =A0 =A0I have three old First Class Radiotelephone (Commercial)
> =A0 =A0certificates with handwritten signatures of officials
> =A0 =A0at various stations attesting to my professional services
> =A0 =A0rendered. =A0Those signatures were done and dated when that
> =A0 =A0First 'Phone license was in force. =A0Some of those are
> =A0 =A0for broadcasting stations but an equal number are for
> =A0 =A0corporations involved in private radio communications.
> =A0 =A0One of the latter is by one of my partners in a private
> =A0 =A0business...which may be a subject of a new Flame War by
> =A0 =A0some self-styled amateur communications attornies.
>
> =A0 =A0In several years of working at private corporations
> =A0 =A0involved with Department of Defense radio and radio-
> =A0 =A0related contracts, that First 'Phone was NOT necessary.
> =A0 =A0DoD radio communications do not fall under FCC
> =A0 =A0jurisdiction. =A0The FCC is chartered by Congressional
> =A0 =A0LAW to regulate USA *civil* communications.
>
> =A0 =A0"Professional" work is that which is compensated for
> =A0 =A0monetarily. =A0[one gets MONEY for services renedered]
> =A0 =A0I was paid money regularly and the IRS and Franchise
> =A0 =A0Tax Board of California attesting to that.
>
> >> =A0 =A0Until 2005 when my wife and I bought
> >> ? ?a new car having a keyless entry radio-on-a-chain-fob. ?That
> >> ? ?fob transmitter is OOK CW. ?But, its data rate is beyond
> >> ? ?human cognition, ANY human.
>
> =A0 =A0Incorrect quotation AGAGIN! =A0I did not write all those
> =A0 =A0question marks that you apparently added.
>
> >Of what relevance is that to amateur radio?
>
> =A0 =A0The keyless entry transmitter uses OOK CW mode!
> =A0 =A0Your favorite mode! =A0They mode you are so inordinately
> =A0 =A0proud of! =A0The mode that enabled you to get an amateur
> =A0 =A0extra class amateur radio license!
>
> =A0 =A0Aren't you more upset personally that we bought a NEW
> =A0 =A0car in 2005? =A0And paid CA$H for it? =A0:-) =A0It's a nice
> =A0 =A0white exterior Chevrolet Malibu MAXX, very comfortable,
> =A0 =A0has taken us from California to Wisconsin and back, to
> =A0 =A0Washington state and back. =A0My wife used the car
> =A0 =A0today and transmitted OOK CW without any radio license
> =A0 =A0via that keyless entry transmitter! =A0Maybe you'd like
> =A0 =A0to inform the FCC about this "illegal use" of radio
> =A0 =A0by the unlicensed-in-any-radio-activity? =A0:-)
>
> >> ? ?I have nothing against telegraphic skills nor anyone using
> >> ? ?those for personal pleasure. ?
>
> >Many of your statements elsewhere on Usenet contradict that.
>
> =A0 =A0Awww, poor baby. =A0Still have the Spite spiked high with
> =A0 =A0adding all those question marks I never wrote? =A0Yes, you
> =A0 =A0are certainly upset by what I've said.
>
> >> =A0 =A0However, in the light of
> >> ? ?advancement of the electronic arts, communications, radio,
> >> ? ?methods that ALL of us can share, I think there is an
> >> ? ?over-much emphasis by radio hobbyists on telegraphic arts.
>
> =A0 =A0INCORRECT QUOTATIONS AGAIN! =A0Oh, my, still sticking your
> =A0 =A0question mark where it doesn't belong?
>
> >IOW, it's OK with you if someone uses it, as long as they don't
> >emphasize it.
>
> =A0 =A0"IOW?" =A0Is that a morsemen's union? =A0Oh, you mean "In
> =A0 =A0Other Words!" =A0Oh, my, if I wanted to write "other
> =A0 =A0words," I would have written OTHER WORDS. =A0Did I write
> =A0 =A0"other words?" =A0No, I didn't.
>
> =A0 =A0Why do you say I wrote "other 7ords" when I didn't
> =A0 =A0write other words?
>
> =A0 =A0Why are sticking those question marks all over my
> =A0 =A0quotes?
>
> >> ? ?Manual telegraphy IS a historic first but it has been
e3E >> ? ?supplanted in practical communications means at our
> >> ? ?disposal...on land, in the air, on the sea, and in space.
>
> >Morse Code is also practical communications.
>
> =A0 =A0So are blinking lights, semaphore flags, ship signal
> =A0 =A0pennants, Boy Scout wig-wag flags, railroad lights,
> =A0 =A0traffic lights (that show "go" and "stop").
>
> =A0 =A0Show us MODERN-DAY COMMUNICATIONS services STILL USING
> =A0 =A0morse codes...OTHER than amateur radio. =A0Can you find
> =A0 =A0any?
>
> >And it is widely used in amateur radio today.
>
> =A0 =A0Not a quantitative statement. =A0According to an ARRL
> =A0 =A0poll, OOK CW is the SECOND-PLACE mode on amateur HF
> =A0 =A0bands. =A0It's an old poll. =A0Maybe radio amateurs have
> =A0 =A0suddenly taken up morsemanship and are busy, busy,
> =A0 =A0busy dotting and dashing everywhere? =A0How wonderful
> =A0 =A0for you...you now have hopes for playmates on radio
> =A0 =A0in the future!
>
> >> ? ?I think we should be looking FORWARD to the future, not
> >> ? ?back to the past. ?Others disagree. ?I leave it at that.
>
> >What does "FORWARD to the future" really mean in that context?
>
> =A0 =A0Try NOT using Knotts Berry Farm "railway station"
> =A0 =A0automated sounder in their REPRODUCTION of an old-
> =A0 =A0time rail station. =A0Hardly an "authoritative source."
> =A0 =A0Now you show us all a Non-Amateur radio service that
> =A0 =A0regularly uses morse code mode for COMMUNICATIONS.
> =A0 =A0TODAY. =A0This year. =A0NOT an exhibit or reproduction.
> =A0 =A0A working service.
>
> =A0 =A0Better yet...bring out your WIFE, as a "witness" to
> =A0 =A0some inaccuracies I'm supposed to have stated. =A0You
> =A0 =A0DO have a wife, don't you? =A0And one with an amateur
> =A0 =A0radio license, right? =A0Good lad, I knew you could...
>
> =A0 =A0Tsk, Jimmie put two and two together and got ate...
>
> =A0 =A0Chow,
> =A0 =A0LA

Don't worry, asswipe.
YOU will not be able to post in the new group!



From 2353680135462632947
X-Google-Thread: fc8b1,120657984dd7625c
X-Google-Thread: fc2a5,120657984dd7625c
X-Google-Attributes: gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller2.gnilink.net!gnilink.net!trndny07.POSTED!79c57fb7!not-for-mail
From: Edward Knobloch <alias@nowhere.net>
```

Reply-To: alias@nowhere.net
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: Hammarlund HX-50 choke question.
References: <PerCh.3042$vu2.1488@trnddc04>
In-Reply-To: <PerCh.3042$vu2.1488@trnddc04>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 37
Message-ID: <gtGCh.968$tQ.35@trndny07>
Date: Tue, 20 Feb 2007 17:45:48 GMT
NNTP-Posting-Host: 71.167.114.200
X-Complaints-To: abuse@verizon.net
X-Trace: trndny07 1171993548 71.167.114.200 (Tue, 20 Feb 2007 12:45:48 EST)
NNTP-Posting-Date: Tue, 20 Feb 2007 12:45:48 EST
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7606
rec.radio.amateur.homebrew:9100

Paul P wrote:
> Does anyone have a guess what value choke L112 found here
> http://www.ppinyot.com/hammarlund.htm#Power%20Supply%20Choke
> might be? I am getting a 190 ac volt drop across this puppy. It has a cold
> DC resistance of 97 ohms. How I got there is also explained at the
> hyperlink page above.
>
> The short of it is, the negative bias voltages are down across all
> associated tubes that share that supply.   Google is no help.
>

Hi,

I checked the L112 choke in my HX-50, and it is 75 Ohms d.c. resistance.
That is in the ball park of your 97 Ohms measurement.
That same choke also serves as the high voltage choke,
since it is in the common center tap return for the medium voltage
and H.V. taps as well as the bias tap.

In standby, I measure 195 VAC across the choke.
So, it sounds like your choke is innocent of the low bias
readings.

Have you put a scope across the bias supply capacitors C176 and C177?
They may need changing out if there is excessive ripple.
The 680 Ohm resistor in series with the bias supply may have increased
value.
Did you check the value of R142 and bias adjust pot R143? They may be
dragging down the bias voltage.

You might measure the bias voltage with the 6DQ5 final tube removed.
If the tube is gassy, it would tend to put a + voltage
on its control grid, which may be working backward
in your bias supply, making the supply less negative.

73,
Ed Knobloch

From -3316195544413907094
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From: Jenn <jennconductsREMOVETHIS@hotmail.com>
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comp.sys.ibm.pc.soundcard.tech:348

In article <iDCCh.15863$O02.10206@newssvr11.news.prodigy.net>,
"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote:

> Jenn
> The neck wood affects the sound energy as it goes from the nut vibrate

> the guitar and so does the truss rod.

True; I was thinking of the neck shape. The question is, of course, can one hear the difference between different neck woods on the same instrument body.

> Tuners can influence the sound
> because their weight can dampen vibrations.

But can one hear the difference between different tuners? I seriously doubt it.

> An interesting thing is to
> hold a tuner lightly (or the headstock) when
> you pluck a string and feel the vibrations.

But can you hear the tone quality change as you hold the tuners? I can't detect that difference on any of my instruments.

> A good analysis should be able to detect loose bracing and you should
> also be able to see the effects of scalloped bracing.

Indeed.

> I shotgunned this query because I didn't know where I would find the
> most help. If responders can suggest a group I could limit it and not
> waste time of those who aren't interested.
> I've also made unconnected posts to other groups, but have less interest
> and reponse so far.
> I didn't post to any guitar groups because most there are musicians that
> don't need this kind of crutch and have an ear that's been trained for
> many years. I want to see if I can catch up by being able to see.
> In addition it should be helpful in voice training which I also need
> because I'm trying but with less success to sing.

If you go to rec.music.makers.guitar.acoustic, you'll find several outstanding luthiers there who may be able to offer help. And though I don't hang out there, rec.music.makers.builders might also include similar folks.

Good luck, Hank!

>
> 73
> Hank WD5JFR
>
> "Jenn" <jennconductsREMOVETHIS@hotmail.com> wrote in message
> news:jennconductsREMOVETHIS-3BDA3E.21271619022007@newsclstr02.news.prodigy.com
> ...
> > In article <tNrCh.59384$QU1.6999@newssvr22.news.prodigy.net>,
> > "Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote:
> >
> >> Amy, Bob, Richard

> >> Thanks for your response and interest. I'm retired used to be an
> >> engineer
> >> before management laid waste to that. I've started taking weekly
> >> guitar
> >> lessons over a year ago and slowly getting a bit better. It's a
> >> hell
> >> of a challenge at 66. I want
> >> to buy a better guitar and all guitars don't sound the same, even the
> >> same model. One shouldn't expect them to because they're all made
> >> from
> >> different cuts of wood and assembled by human hands. What amazed me
> >> is
> >> that the materials used for the nut, neck, saddle and bridge as well
> >> as
> >> the mfg and age of the strings have a noticeable effect on the sound.
> >> The bridge pins, angle of the strings out of the bridge pin holes and
> >> tuners also have effects.
> >> In the last year I found at least four guitars that I really liked, 3
> >> used ones and a new one all over a $1000.00 but I passed because I'm
> >> not
> >> that impulsive or flush with cash. A good player can make just about
> >> any guitar sound good, or a hell of a lot better than me.
> >> I'm into ham radio also and last year at hamfest I traded for an HP
> >> 3582A spectrum analyzer but the learning curve is a bit steep for me.
> >> So unless I can find an experienced user or devote much more time to
> >> it
> >> I'm going to have to trade it.
> >> Last week I won an HP 3561A on ePay but it has a problem that I hope
> >> I
> >> can fix. In the meantime I thought it might make sense to scope out
> >> sound cards and related software. I know a lot of hams use sound
> >> cards
> >> for various & different applications and it's about time I took a
> >> wack
> >> at one and what better way than trying to figure out what it is that
> >> makes one guitar sound so much better than another. Or if changing
> >> the
> >> nut, saddle or bridge pins really improves the sound or is it just
> >> wishful thinking.
> >
> > What a neat project!
> >
> > I can tell you, based on years of experience with changing out the
> > parts
> > that you mentioned (nut, saddle, bridge, pins, ESPECIALLY break angle)
> > that these things DO make a difference in the sound. I have NOT heard
> > a
> > difference with changes of neck or tuners (certainly these things
> > affect
> > the intonation of the instrument, but I've never known then to change
> > the quality of sound).
> >
> > However, the choice of wood, body shape, and top bracing are far more

```
> > relevant.  You might want to check with Martin, Taylor, Larrivee, et
> > al
> > to see if they have any scientific info that can help you.  They
> > aren't
> > in the business of pushing pins, tuners, etc.
> >
> > Good luck and please post what you find out!
> >
> > (Since this is RAO, I should point out that my hearing of the things
> > mentioned in my second paragraph above is based on differences heard
> > based on changes made to the instruments when it wasn't possible to
> > know
> > about the changes.)


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X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
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Xref: g2news2.google.com rec.radio.amateur.homebrew:9102

Bill, W Q R P  in Cincinnati . Your A Moron. Does It really hurt when you
think? Maybe you should go see the Doctor. Help for you is just a door away
open it walk through and Don't let it hit you in the A$$ xx I mean Head on
```

the way out.

My Name is Bill and , My name is Bill and, I think My Name is Bill and , I
think My Name is Bill and , They told Me that My Name is Bill and ,   Duh
your Bill right

"Bill Turner" <noway@nowhow.com> wrote in message
news:1obbo25f3r3oh03qsuinki0hsdprmqluq4@4ax.com...
> Please folks, do not reply to these off topic posts.
>
> If these idiots never get any replies, they will eventually give up
> and go away.
>
> Thanks,
>
> Bill, W6WRT

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rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
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Complaints-To: groups-abuse@google.com
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Xref: g2news2.google.com rec.antiques.radio+phono:46990
rec.radio.amateur.boatanchors:7607 rec.radio.amateur.homebrew:9103

On Feb 20, 9:39=EF=BF=BDam, klu...@panix.com (Scott Dorsey) wrote:
> Paul P <paulREM...@REMOVEppinyotREMOVE.com> wrote:
> >Does anyone have a guess what value choke L112 found here
> >http://www.ppinyot.com/hammarlund.htm#Power%20Supply%20Choke
> >might be? =A0I am getting a 190 ac volt drop across this puppy. =A0It ha=
s a cold
> >DC resistance of 97 ohms. =A0How I got there is also explained at the
> >hyperlink page above.

I doubt very much that L112 is faulty. The bias supply
capacitors, rectifier and resistors are much more likely
to be bad.
>
> >The short of it is, the negative bias voltages are down across all
> >associated tubes that share that supply. =A0
>
> >Even a guess at this point would be nice. =A0I have never calculated a c=
hoke
> >in this configuration before.
>
> The choke has AC going through it, since it's on the input side of the
> rectifier. =A0

No, it doesn't.

It has pulsating rectified DC going through it.

There are two reasons why it is in the center tap lead:

1) All the power supplies can share it

2) Insulation requirements are less.

>My guess is that it's not just a normal choke but is a swinging
> choke with a controlled saturation characteristic.

Agreed.

>=A0It's acting as a
> current regulator; as current rises the magnetic flux in the core rises
> and at some point the core saturates and the impedance of the winding sho=
ots
> way up, reducing the current flow.

Not exactly.

In a choke-input filter, the inductance must be above a certain critical value or the filter isn't really a choke-input filter.

This critical value (called critical inductance) is directly related to the total load resistance. The lower the load resistance, the less inductance is needed. The load resistance is just the output voltage divided by the total current delivered by the rectifiers.

In a transmitter, the load resistance and current vary all over the place with keying, modulation, loading, etc.

The inductance of real-world iron core filter chokes depends to a certain extent on the direct current through the choke, which magnetically saturates the iron. One way to reduce this effect is to include an air gap in the iron core. The wider the gap, the less the inductance variation. But such a gap reduces the overall inductance.

If a choke with constant inductance were used, it would need to have enough inductance for the lowest-current/highest load resistance condition, yet enough current capability for the highest current condition. That means a wide air gap. Such a choke would be large and expensive.

Instead, a choke with a narrow air gap is used, Its inductance varies with the current - more inductance with less curren, less inductance with more current. This is exactly what is needed with a choke input filter. Such chokes are called "swinging chokes".

The power supply for my 150 watt homebrew rig uses a swinging choke in the high voltage supply. This choke has 25 henries inductance at 30 mA DC but only 5 henries inductance at 300 mA DC.

> A 190V drop across it might be normal, or it might be a sign you are tryi=
ng
> to pull way too much current through the thing. =A0What voltages do you m=
easure
> across C162 sections A and B? =A0They should be fairly close to the maxim=
um
> capacitor ratings, I suspect. =A0If they are within a reasonable range, I=
'd
> say the swinging choke is fine, otherwise I'd suspect something is on the
> secondary side is pulling too much current and it's hit the wall.
>

All of the rectifiers, filter caps and resistors in the power supply section are suspect. This is particularly true if any selenium rectifiers or carbon composition resistors were used.

73 es GL de Jim, N2EY

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rec.radio.amateur.homebrew:9104 rec.radio.amateur.antenna:25451
comp.sys.ibm.pc.soundcard.tech:349

On Tue, 20 Feb 2007 09:58:34 -0500, "Arny Krueger" <arnyk@hotpop.com>
wrote:

>"paul packer" <packer@iprimus.com.au> wrote in message
>news:45daf7a1.52430875@news.iprimus.com.au
>> On Tue, 20 Feb 2007 05:27:17 GMT, Jenn
>> <jennconductsREMOVETHIS@hotmail.com> wrote:
>>
>>
>>> (Since this is RAO, I should point out that my hearing
>>> of the things mentioned in my second paragraph above is

```
>>> based on differences heard based on changes made to the
>>> instruments when it wasn't possible to know about the
>>> changes.)
>>
>> Eh?
>
>Jenn apparently thinks that the changes in SQ that come from modifying the
>working parts of musical instruments are fully comparable to say, adding one
>more strand of wire to a speaker cable composed of finely stranded wilre.

I don't know what Jenn said, but I do know that you don't know either.




From 2361351879811460071
X-Google-Thread: 10d85e,cfa01e565e46a6bb
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Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.anten
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Subject: Re: Good sound card & software ?
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rec.radio.amateur.homebrew:9105 rec.radio.amateur.antenna:25452
comp.sys.ibm.pc.soundcard.tech:350

In article <45db9142.10856343@news.iprimus.com.au>,
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> >> On Tue, 20 Feb 2007 05:27:17 GMT, Jenn
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> >>> (Since this is RAO, I should point out that my hearing
> >>> of the things mentioned in my second paragraph above is
> >>> based on differences heard based on changes made to the
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> >> Eh?
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> >Jenn apparently thinks that the changes in SQ that come from modifying the
> >working parts of musical instruments are fully comparable to say, adding one
> >more strand of wire to a speaker cable composed of finely stranded wilre.
>
> I don't know what Jenn said, but I do know that you don't know either.

Crap, another post from the same morning before breakfast! <blush>

What I meant is that the differences that I heard after changes in the
instruments were heard without me knowing that changes had been made.
Thus, there was no "listener bias", a favorite topic around here at
various times.

Whatever Arny is blathering about, I have no idea.


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On Tue, 20 Feb 2007 10:01:08 -0500, "Arny Krueger" <arnyk@hotpop.com> wrote:

>So you think that the FFT analysis tool in CEP doesn't do windowing?????

With about as much panache as a Yugo in the Indy 500. Hardly a reason to throw $350 into the wind.

>So you think that Spectra doesn't provide options for windowing and/or that
>I have no idea what effect they have on actual results????

The designer of Spectra is a local Ham - I know his capabilities, I don't know yours. All I have to go on is the pedestrian choice of Blackman windowing that demonstrates nothing in the way of "ideas on the effect on actual results." As I offered, it is an ordinarily suitable choice if you have no demanding requirements.

Hi Hank,

There are a world of free analyzers, one quick search found 16:
http://freshmeat.net/search/?q=fft&section=projects&Go.x=11&Go.y=10

Get your feet wet before throwing the green at bloatware designs that invest their resources in advertising. If you find nothing in this first list, I can certainly 26 find more.

73's
Richard Clark, KB7QHC

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comp.sys.ibm.pc.soundcard.tech:352

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news:qvcnt2tf3pas0istpjk3dc8m98vpcnn3ck@4ax.com
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comp.sys.ibm.pc.soundcard.tech:353

"paul packer" <packer@iprimus.com.au> wrote in message
news:45db9142.10856343@news.iprimus.com.au
> On Tue, 20 Feb 2007 09:58:34 -0500, "Arny Krueger"
> <arnyk@hotpop.com> wrote:
>
>> "paul packer" <packer@iprimus.com.au> wrote in message
>> news:45daf7a1.52430875@news.iprimus.com.au
>>> On Tue, 20 Feb 2007 05:27:17 GMT, Jenn
>>> <jennconductsREMOVETHIS@hotmail.com> wrote:
>>>
>>>
>>>> (Since this is RAO, I should point out that my hearing
>>>> of the things mentioned in my second paragraph above is
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>> Jenn apparently thinks that the changes in SQ that come
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>> wire to a speaker cable composed of finely stranded
>> wilre.
```

>
> I don't know what Jenn said, but I do know that you don't
> know either.

Paul, you keep missing the meaning of words that I wrote - this time the word you missed is "apparently".

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> changes in the instruments were heard without me knowing
> that changes had been made. Thus, there was no "listener
> bias", a favorite topic around here at various times.

OK, since I'm dealing with a member of a lesser species, I'll spell it out:

As a rule, changes in the mechanics of musical instruments have relatively gross effects, compared to the sort of things that many high end audiophiles fret about.

> Whatever Arny is blathering about, I have no idea.

Yup, much of what I write is over the heads of members lesser species.

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>I got it now, I'm dealing with a FFT snob, not someone who just sees them as
>a tool to get a job done.

Connoisseur is more appropriate, and as for getting the job done, I did that on contract to HP for one of their many FFT audio analyzers 22 years ago. I've written 200,000 lines of fourier code for many products that get jobs done.

I also have the seminal work by Blackman and Tukey that predates the math of the Fourier transform: "The Measurement of Power Spectra." An extract bears repeating:

> "'... we were able to discover in the general wave record a very weak low-frequency peak which would surely have escaped our attention without spectral analysis. This peak, it turns out, is almost certainly due to a swell from the Indian Ocean, 10,000 miles distant. Physical dimensions are: 1mm high and a kilometer long.'"

The Hann or Hamm windowing functions are preferable as even Blackman would admit and even these two are hardly exemplars of outstanding performance. My designs exhibited a noise floor of -200dB (statistical noise from the transcendentals' math). A poor Blackman window would throw away 120dB of that to offer only -80dB. -80dB is certainly impressive to mundane applications, but most would agree that very little more effort was needed to gain 12 more orders of magnitude in performance.

Hi Hank,

If you've waded through my prior list of freely available Fourier analyzers, more can be found at:
http://sourceforge.net/search/?type_of_search=soft&words=fft
Not all are applications however.

However, you should probably try to get a copy of HP's Application Note 243-1 "Dynamic Signal Analyzer Applications." Of particular note for your studies into the nuances of investigating construction materials in Guitars (I did it with Violins), you should study the Fourier math relating to "Coherence" suited for a dual channel analyzer.

73's
Richard Clark, KB7QHC

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token.pipenetworks.com!218.100.2.59.MISMATCH!not-for-mail
From: packer@iprimus.com.au (paul packer)
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,comp.sys.ibm.pc.soundcard.tech
Subject: Re: Good sound card & software ?
Date: Wed, 21 Feb 2007 10:29:34 GMT
Message-ID: <45dc1e82.47016390@news.iprimus.com.au>
References: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
<45d9ad82.1201022@news.sysmatrix.net> <98rjt2tmesscthi5jk8s8knorfavn7ld3g@4ax.com>
<NsoCh.59361$QU1.47553@newssvr22.news.prodigy.net>
<7o6kt2tdhlhdded5f6b1u8fc9v06u073vv@4ax.com>
<tNrCh.59384$QU1.6999@newssvr22.news.prodigy.net>
<jennconductsREMOVETHIS-3BDA3E.21271619022007@newsclstr02.news.prodigy.com>
<45daf7a1.52430875@news.iprimus.com.au>
<LtGdndkqIdgIkUbYnZ2dnUVZ_tOmnZ2d@comcast.com>
<45db9142.10856343@news.iprimus.com.au> <9IednTCP-tHkWUbYnZ2dnUVZ_hGdnZ2d@comcast.com>
X-Newsreader: Forte Free Agent 1.21/32.243
X-Original-NNTP-Posting-Host: 211.26.146.96
Organization: iPrimus Customer - reports relating to abuse should be sent to
abuse@iprimus.com.au
X-Original-NNTP-Posting-Host: 127.0.0.1
Lines: 11
NNTP-Posting-Host: 203.134.67.67
X-Trace: 1172053780 un-2park-reader-01.sydney.pipenetworks.com.au 1153
203.134.67.67:2985
X-Complaints-To: Abuse, including message IDs to abuse@pipenetworks.com
Xref: g2news2.google.com rec.audio.opinion:61958 rec.audio.pro:93349
rec.radio.amateur.homebrew:9111 rec.radio.amateur.antenna:25470
comp.sys.ibm.pc.soundcard.tech:356

On Tue, 20 Feb 2007 23:03:10 -0500, "Arny Krueger" <arnyk@hotpop.com>
wrote:

>> I don't know what Jenn said, but I do know that you don't
>> know either.

>
>Paul, you keep missing the meaning of words that I wrote

Shouldn't that be "words that I've written"? There could be an inherent explanation here.

From 972761632101589450
X-Google-Thread: fc2a5,8259303a2f69f348,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!headwall.stanford.edu!newsfeed.stanford.edu!sn-xt-sjc-02!sn-xt-sjc-09!sn-xt-sjc-07!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Jack Schmidling <arf@mc.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: 813's as Modulators
Date: Wed, 21 Feb 2007 06:27:51 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12toem5go4rou40@corp.supernews.com>
User-Agent: Mozilla Thunderbird 0.9 (Windows/20041103)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 28
Xref: g2news2.google.com rec.radio.amateur.homebrew:9112

My new (first one in 50 years) is an 8000 modulated by a pair of 813's running as triodes. The RF deck and Pw supply are up and running and I am working on the modulator now.

My plans are to drive it with the Ranger and eventually do a stand alone audio section. The Range gets poor audio reports in spite of months of trying to resolve it.

I am wondering if anyone here as any experience using 813's as triodes and would also like some help on the audio driver.

I bought a little solid state audio pre-amp and driver that puts out about 4W at 8 ohms. This is probably not enough to drive the 813's so I need more poop and some ideas on how to drive the modulators with the 8 ohm amp.

There are some in progress pics of this project at
http://schmidling.com/radio.htm

Jack K9ACT

```
--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com


From -3320071515973082133
X-Google-Thread: fc2a5,3717d53d59494b6d,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.nask.pl!
news.nask.org.pl!news.cyf-kr.edu.pl!agh.edu.pl!news.agh.edu.pl!news.onet.pl!not-
for-mail
From: MAc <mac_dx@tosiewytnie.poczta.onet.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: opinion about MAR mimic
Date: Wed, 21 Feb 2007 13:57:39 +0100
Organization: x
Lines: 8
Message-ID: <erhfk6$52k$1@news.onet.pl>
Reply-To: mac_dx@tosiewytnie.poczta.onet.pl
NNTP-Posting-Host: gns26.internetdsl.tpnet.pl
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-2; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.onet.pl 1172062670 5204 83.3.96.26 (21 Feb 2007 12:57:50 GMT)
X-Complaints-To: usenet@news.onet.pl
NNTP-Posting-Date: Wed, 21 Feb 2007 12:57:50 +0000 (UTC)
X-Sender: tziRau1SlJeRbF6OI/pJQplh44CxR6pL
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
Xref: g2news2.google.com rec.radio.amateur.homebrew:9113

Did anybody use MAR as a HF(1.8-28MHz) (not VHF) preamplifire?

What about results?
Any usable links or advices?

Thanks in advance.
MAc
sp9mrn


From -5138551209655794325
X-Google-Thread: 10c2ee,120657984dd7625c
X-Google-Thread: fc8b1,120657984dd7625c
X-Google-Thread: fc2a5,120657984dd7625c
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!panix!
panix2.panix.com!not-for-mail
```

From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: Hammarlund HX-50 choke question.
Date: 21 Feb 2007 09:19:01 -0500
Organization: Former users of Netcom shell (1989-2000)
Lines: 14
Message-ID: <erhkcl$t87$1@panix2.panix.com>
References: <PerCh.3042$vu2.1488@trnddc04> <erf16s$np9$1@panix2.panix.com>
<DNqdnbF_qam6h0bYnZ2dnUVZ_sWdnZ2d@rcn.net>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1172067541 11059 166.84.1.2 (21 Feb 2007 14:19:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 21 Feb 2007 14:19:01 +0000 (UTC)
Xref: g2news2.google.com rec.antiques.radio+phono:47031
rec.radio.amateur.boatanchors:7613 rec.radio.amateur.homebrew:9114

Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote:
>
>But that is exactly backwards from the way chokes work. As the current
>rises, and the core approaches saturation, the coil starts to lose the inductance
>enhancement provided by the core, and it approaches the inductance of an
>equivalent air core choke. That is, the inductance *drops*, and the inductive
>reactance *drops* and the AC current shoots way up.

That makes perfect sense to me. So how _do_ current-limiting chokes work,
then? I always assumed they worked as I described but I may well be wrong.
--scott

--
"C'est un Nagra. C'est suisse, et tres, tres precis."

From 1406980679883790371
X-Google-Thread: 10c2ee,120657984dd7625c
X-Google-Thread: fc8b1,120657984dd7625c
X-Google-Thread: fc2a5,120657984dd7625c
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!
not-for-mail
NNTP-Posting-Date: Wed, 21 Feb 2007 08:49:57 -0600
Date: Wed, 21 Feb 2007 09:48:13 -0500
From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.0.8) Gecko/20061029
SeaMonkey/1.0.6
MIME-Version: 1.0
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: Hammarlund HX-50 choke question.
References: <PerCh.3042$vu2.1488@trnddc04> <erf16s$np9$1@panix2.panix.com>
<DNqdnbF_qam6h0bYnZ2dnUVZ_sWdnZ2d@rcn.net> <erhkcl$t87$1@panix2.panix.com>

```
In-Reply-To: <erhkcl$t87$1@panix2.panix.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <99idndd3iNCLwUHYnZ2dnUVZ_t6qnZ2d@rcn.net>
Lines: 22
NNTP-Posting-Host: 72.83.120.154
X-Trace: sv3-trZbl5FbVM/
k035nlbtnkkd+pcjTlifQqZd1YxgdhxTCbLYZ9Rnkr01VUF4V2NtCKhBpKOOIinh6TgW!
wGaB143pwg0aJ584KRRsUEhUUrW2GkK2LD5aSh7ey1Ft1jDXrBxW076u2ShE82uGEbThND4xABNs!
cNQXC+Eje3Lt
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.antiques.radio+phono:47034
rec.radio.amateur.boatanchors:7614 rec.radio.amateur.homebrew:9115

Scott Dorsey wrote:
> Chuck Harris  <cf-NO-SPAM-harris@erols.com> wrote:
>> But that is exactly backwards from the way chokes work.  As the current
>> rises, and the core approaches saturation, the coil starts to lose the
inductance
>> enhancement provided by the core, and it approaches the inductance of an
>> equivalent air core choke.  That is, the inductance *drops*, and the inductive
>> reactance *drops* and the AC current shoots way up.
>
> That makes perfect sense to me.  So how _do_ current-limiting chokes work,
> then?  I always assumed they worked as I described but I may well be wrong.
> --scott

On DC, they can't!  No way, no how.

On AC, a choke can limit the current by being a reactive component...
kind of a lossless resistor for AC.

But!  Swinging chokes always reduce their inductance when the current
rises.   They typically have a 100:1 change in inductance over their
design current range.

-Chuck



From 6307300050745632791
X-Google-Thread: fc2a5,3717d53d59494b6d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-
mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
```

```
References: <erhfk6$52k$1@news.onet.pl>
Subject: Re: opinion about MAR mimic
Lines: 25
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <%5ZCh.307350$aJ.122856@attbi_s21>
NNTP-Posting-Host: 12.219.128.249
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1172069883 12.219.128.249 (Wed, 21 Feb 2007 14:58:03 GMT)
NNTP-Posting-Date: Wed, 21 Feb 2007 14:58:03 GMT
Organization: AT&T ASP.att.net
Date: Wed, 21 Feb 2007 14:58:03 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:9116
```

"MAc" <mac_dx@tosiewytnie.poczta.onet.pl> wrote in message
news:erhfk6$52k$1@news.onet.pl...

> Did anybody use MAR as a HF(1.8-28MHz) (not VHF) preamplifire?
>
> What about results?
> Any usable links or advices?
>
> Thanks in advance.
> MAc
> sp9mrn

GM Mac, all the time! In a shop environment, not as an RF preamp on the air since I don't have any need for that. I use an INA 02186 (roughly equal to the MAR 8), to depress the noise figure of an old HP 312 selective Voltmeter when I need it, Also MAR 4 to boost a DDS output that runs 7-35 MHz.

Unless you're running a very inefficient antenna, you shouldn't need a preamp for anything 2-30 MHz with any reasonable receiver. I HAVE used the above INA 02186 for a beverage antenna amplifier. Not for myself but for a friend with a 500 foot beverage. Worked fine.

W4ZCB

```
From 240304915583189331
X-Google-Thread: 10c2ee,120657984dd7625c
X-Google-Thread: fc8b1,120657984dd7625c
X-Google-Thread: fc2a5,120657984dd7625c
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!panix!
```

panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: Hammarlund HX-50 choke question.
Date: 21 Feb 2007 10:12:36 -0500
Organization: Former users of Netcom shell (1989-2000)
Lines: 28
Message-ID: <erhnh4$a59$1@panix2.panix.com>
References: <PerCh.3042$vu2.1488@trnddc04>
<DNqdnbF_qam6h0bYnZ2dnUVZ_sWdnZ2d@rcn.net> <erhkcl$t87$1@panix2.panix.com>
<99idndd3iNCLwUHYnZ2dnUVZ_t6qnZ2d@rcn.net>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1172070756 5260 166.84.1.2 (21 Feb 2007 15:12:36 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 21 Feb 2007 15:12:36 +0000 (UTC)
Xref: g2news2.google.com rec.antiques.radio+phono:47037
rec.radio.amateur.boatanchors:7615 rec.radio.amateur.homebrew:9117

Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote:
>Scott Dorsey wrote:
>> Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote:
>>> But that is exactly backwards from the way chokes work. As the current
>>> rises, and the core approaches saturation, the coil starts to lose the
inductance
>>> enhancement provided by the core, and it approaches the inductance of an
>>> equivalent air core choke. That is, the inductance *drops*, and the inductive
>>> reactance *drops* and the AC current shoots way up.
>>
>> That makes perfect sense to me. So how _do_ current-limiting chokes work,
>> then? I always assumed they worked as I described but I may well be wrong.
>
>On DC, they can't! No way, no how.

Right, but I was thinking that in the position where that coil is in
the circuit, it's directly in series with the AC coming off the transformer.

>On AC, a choke can limit the current by being a reactive component...
>kind of a lossless resistor for AC.

>But! Swinging chokes always reduce their inductance when the current
>rises.   They typically have a 100:1 change in inductance over their
>design current range.

How does the reduced inductance translate to higher series impedance?
--scott
--
"C'est un Nagra. C'est suisse, et tres, tres precis."

From 5381238063926201220
X-Google-Thread: fc2a5,492bf471860f4186
X-Google-Attributes: gidfc2a5,public

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p10g2000cwp.googlegroups.com!not-for-
mail
From: "tack" <tack1@flash.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: No Code Required Issue
Date: 21 Feb 2007 08:30:57 -0800
Organization: http://groups.google.com
Lines: 48
Message-ID: <1172075457.868314.283150@p10g2000cwp.googlegroups.com>
References: <no.spam-D502CD.10530317122006@news.verizon.net>
   <1obbo25f3r3oh03qsuinki0hsdprmqluq4@4ax.com>
   <1bydna3iyL4GGEbYnZ2dnUVZ_v-tnZ2d@deskmedia.com>
NNTP-Posting-Host: 69.154.28.59
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172075478 12261 127.0.0.1 (21 Feb 2007 16:31:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 21 Feb 2007 16:31:18 +0000 (UTC)
In-Reply-To: <1bydna3iyL4GGEbYnZ2dnUVZ_v-tnZ2d@deskmedia.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET
CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p10g2000cwp.googlegroups.com; posting-host=69.154.28.59;
   posting-account=uKUyGwwAAAAkx11KnifX36YVybIZ6Qe1
Xref: g2news2.google.com rec.radio.amateur.homebrew:9118

On Feb 20, 5:34 pm, "JIM" <cjjim...@yahoo.com> wrote:
> Bill, W Q R P  in Cincinnati . Your A Moron. Does It really hurt when you
> think? Maybe you should go see the Doctor. Help for you is just a door away
> open it walk through and Don't let it hit you in the A$$ xx I mean Head on
> the way out.
>
> My Name is Bill and , My name is Bill and, I think My Name is Bill and , I
> think My Name is Bill and , They told Me that My Name is Bill and ,   Duh
> your Bill right
>
> "Bill Turner" <n...@nowhow.com> wrote in message
>
> news:1obbo25f3r3oh03qsuinki0hsdprmqluq4@4ax.com...
>
>
>
> > Please folks, do not reply to these off topic posts.
>
> > If these idiots never get any replies, they will eventually give up
> > and go away.
>
> > Thanks,
>
> > Bill, W6WRT- Hide quoted text -
>
```

> - Show quoted text -

Why must people flame and call names? Bill Turner is technically correct, although severe. Al's post is off topic, but it is polite and sane. He shows no sign of being an "idiot" or jerk. An off topic post like that perhaps should be handled by giving a few polite answers, reminding that it is off topic, then dropping the subject. On topic now, I suggest to those that believe that they cannot learn code learn it anyway. There will still be code on the air, at least for a time. Take your short-wave sets and listen to it. I disagree that you should not memorize code. Learn the "A" is .- ; "B" is -...; etc. There are only 26 characters plus ten numbers, and a few punctuation characters. Man, if you can get a Master's in EE which requires advanced mathematics with all the associated arcane symbolism then you can memorize a little code. Of course, by counting dots and dashes you'll never get past a few wpm, but you continue to listen to faster and faster code, and as was mentioned above listen to characters played very fast but with wide spacing, which will help you to learn by pattern recognition. When you master that, you will listen to code as a sort of "language".

```
From 2785240633551745840
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q2g2000cwa.googlegroups.com!not-for-
mail
From: "tack" <tack1@flash.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW Bands
Date: 21 Feb 2007 09:56:32 -0800
Organization: http://groups.google.com
Lines: 95
Message-ID: <1172080592.658625.191390@q2g2000cwa.googlegroups.com>
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
   <z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net>
   <45D25B20.1090806@worldnet.att.net>
   <bx6Bh.18315$p9.3093@bignews7.bellsouth.net>
   <slrnetavn3.cf.gsm@cable.mendelson.com>
   <1171674635.846476.313740@s48g2000cws.googlegroups.com>
   <v7EBh.13287$B8.4679@bignews6.bellsouth.net>
   <1171830561.520342.64740@q2g2000cwa.googlegroups.com>
   <4TkBD9V8HN2FFAZs@ifwtech.co.uk>
   <1171858502.321693.286560@m58g2000cwm.googlegroups.com>
   <1171908159.721524.90150@m58g2000cwm.googlegroups.com>
   <1171929184.125827.137750@k78g2000cwa.googlegroups.com>
   <1171931085.488463.165330@l53g2000cwa.googlegroups.com>
NNTP-Posting-Host: 69.154.28.59
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172080616 30192 127.0.0.1 (21 Feb 2007 17:56:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 21 Feb 2007 17:56:56 +0000 (UTC)
In-Reply-To: <1171931085.488463.165330@l53g2000cwa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET
CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q2g2000cwa.googlegroups.com; posting-host=69.154.28.59;
   posting-account=uKUyGwwAAAAkx11KnifX36YVybIZ6Qe1
Xref: g2news2.google.com rec.radio.amateur.homebrew:9119

On Feb 19, 6:24 pm, N...@AOL.COM wrote:
> On Feb 19, 6:53?pm, "LenAnder...@ieee.org" <LenAnder...@ieee.org>
> wrote:
>
> > On Feb 19, 10:02?am, N...@AOL.COM wrote:
>
> (whole lot of stuff that was snipped)
>
>
>
> > ? ?Policy matters-arguments-discussions belong on
> > ? ?rec.radio.amateur.policy.
>
> Is this a moderated newsgroup?
>
> Are you the moderator?
>
>
>
> > ? ?This newsgroup is for experimentation and building
> > ? ?radio-electronics in the home workshop.
>
> Really?
>
> The post of yours that I replied to contained comments
> on the railroad system, landline telegraph communications,
> Knott's Berry Farm and other tourist attractions, stagecoaches, wives-
> and-families, your lack of use of
> Morse Code in military communications, your parents
> watching the lunar landings on TV, and keyless auto security systems.
>
> I don't see a single word from you in that posting
> about "experimentation and building radio-electronics
>  in the home workshop."
>
> It also contained this personal policy statement from you:
>
> "I have nothing against telegraphic skills nor anyone using
>  those for personal pleasure.  However, in the light of
>  advancement of the electronic arts, communications,
```

> radio, methods that ALL of us can share, I think there
> is an over-much emphasis by radio hobbyists on
> telegraphic arts. Manual telegraphy IS a historic first
> but it has been supplanted in practical communications
> means at our disposal...on land, in the air, on the sea,
> and in space.
>
>   I think we should be looking FORWARD to the future, not
>   back to the past. Others disagree. I leave it at that."
>
> Sure sounds like you were having a policy discussion
> to me!
>
> Jim, N2EY
>
>
>
>
>
> > ? ?LenAnder...@ieee.org- Hide quoted text -
>
> - Show quoted text -

Here is an example of my second biggest peeve of these groups (the first being spam). It's ego posts. LenAnderson seems to be intent on demonstrating that he is the final authority; with an encyclopedic knowledge of all he is typing about. And a few put-downs here and there. Example: Ken Scharf made an interesting comment: "Also as sent over the land line the operator had to listen for the gap between clicks NOT the sound of the clicks! Try that folks!" Professor Anderson had to reply with: "Irrelevant as to what any telegraph operator did prior to 1900...except for historical notation." I applaud Ian White for his gentle rebuttal of Anderson; but of course "Professor" Anderson cannot be treated in such a manner. But I liked Jim, N2EY's "comeback" better. Even though it was a bit off topic, this was a nice discussion before the history lessons. I love history and I believe that it is extremely important (under taught) but I perceive that the spirit here was not to teach and inform. I am rather new to these google groups, usually not having to time to sit here sorting through posts and typing in some myself. But I have recently become somewhat disabled (military service). I have a life-long interest in vintage electronics, collect short-wave radios, and designed and built my own receiver. I came to these Google groups looking to receive and to share. It is distressing to witness ego flare-ups. Does this happen often here? I've seen it a few times on other groups, and on Yahoo.

Say, can anyone point me to some information on creating my own filter chokes? Is there a source that anyone knows of for silicon-iron core plates? Thanks

By the way, I despise flaming and I came a bit close to flaming Anderson, but couldn't help but say something about a monologue like

```
his.



From 7619952568554503417
X-Google-Thread: 10c2ee,120657984dd7625c
X-Google-Thread: fc8b1,120657984dd7625c
X-Google-Thread: fc2a5,120657984dd7625c
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!
not-for-mail
NNTP-Posting-Date: Wed, 21 Feb 2007 14:43:57 -0600
Date: Wed, 21 Feb 2007 15:42:08 -0500
From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.0.8) Gecko/20061029
SeaMonkey/1.0.6
MIME-Version: 1.0
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: Hammarlund HX-50 choke question.
References: <PerCh.3042$vu2.1488@trnddc04>
<DNqdnbF_qam6h0bYnZ2dnUVZ_sWdnZ2d@rcn.net> <erhkcl$t87$1@panix2.panix.com>
<99idndd3iNCLwUHYnZ2dnUVZ_t6qnZ2d@rcn.net> <erhnh4$a59$1@panix2.panix.com>
In-Reply-To: <erhnh4$a59$1@panix2.panix.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <HrSdneYrqaqTMkHYnZ2dnUVZ_uqvnZ2d@rcn.net>
Lines: 37
NNTP-Posting-Host: 72.83.120.154
X-Trace: sv3-2lxmS5LHRBBc6+f+qtfb7x9M/
gqEDketLfJyyKhuugA84k5+PgSgEEYBi9WgIkiHB4iuIJrj6z0KqIj!
rXMAPU30ny0N54gvdVmw8mJMhO0Waz7sWe30qM7NWOzBU17REwkAMzPo6gO92SmsEbrVuvfQ2jWU!
qLE2yn1YV1MK
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.antiques.radio+phono:47057
rec.radio.amateur.boatanchors:7616 rec.radio.amateur.homebrew:9120

Scott Dorsey wrote:
> Chuck Harris  <cf-NO-SPAM-harris@erols.com> wrote:
>> Scott Dorsey wrote:
>>> Chuck Harris  <cf-NO-SPAM-harris@erols.com> wrote:
>>>> But that is exactly backwards from the way chokes work.  As the current
>>>> rises, and the core approaches saturation, the coil starts to lose the
inductance
>>>> enhancement provided by the core, and it approaches the inductance of an
>>>> equivalent air core choke.  That is, the inductance *drops*, and the
```

inductive
>>>> reactance *drops* and the AC current shoots way up.
>>> That makes perfect sense to me. So how _do_ current-limiting chokes work,
>>> then? I always assumed they worked as I described but I may well be wrong.
>> On DC, they can't! No way, no how.
>
> Right, but I was thinking that in the position where that coil is in
> the circuit, it's directly in series with the AC coming off the transformer.
>
>> On AC, a choke can limit the current by being a reactive component...
>> kind of a lossless resistor for AC.
>
>> But! Swinging chokes always reduce their inductance when the current
>> rises.   They typically have a 100:1 change in inductance over their
>> design current range.
>
> How does the reduced inductance translate to higher series impedance?

It doesn't.

Where did you get the idea that such an inductor exists?

A swinging choke aids in the *voltage* regulation of a choke input
power supply by having a high inductive reactance at low currents (where the
supply would tend to be too high in voltage), and having low inductive
reactance at high currents (where the supply would normally tend to droop.)

Is that what you are thinking of?

-Chuck

From -6640758863876293344
X-Google-Thread: 10c2ee,120657984dd7625c
X-Google-Thread: fc8b1,120657984dd7625c
X-Google-Thread: fc2a5,120657984dd7625c
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: Hammarlund HX-50 choke question.
Date: 21 Feb 2007 16:00:29 -0500
Organization: Former users of Netcom shell (1989-2000)
Lines: 15
Message-ID: <eribtd$mad$1@panix2.panix.com>
References: <PerCh.3042$vu2.1488@trnddc04>
<99idndd3iNCLwUHYnZ2dnUVZ_t6qnZ2d@rcn.net> <erhnh4$a59$1@panix2.panix.com>
<HrSdneYrqaqTMkHYnZ2dnUVZ_uqvnZ2d@rcn.net>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1172091629 9062 166.84.1.2 (21 Feb 2007 21:00:29 GMT)

```
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 21 Feb 2007 21:00:29 +0000 (UTC)
Xref: g2news2.google.com rec.antiques.radio+phono:47058
rec.radio.amateur.boatanchors:7617 rec.radio.amateur.homebrew:9121

Chuck Harris  <cf-NO-SPAM-harris@erols.com> wrote:
>
>A swinging choke aids in the *voltage* regulation of a choke input
>power supply by having a high inductive reactance at low currents (where the
>supply would tend to be too high in voltage), and having low inductive
>reactance at high currents (where the supply would normally tend to droop.)
>
>Is that what you are thinking of?

Ahh!  So the increased current causes the inductive reactance to drop,
causing the series impedance to drop.  That makes sense, so long as the
source impedance is the same all the time, right?
--scott
--
"C'est un Nagra.  C'est suisse, et tres, tres precis."


From 1829951849312515303
X-Google-Thread: fc2a5,3717d53d59494b6d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.nask.pl!
news.nask.org.pl!news.cyf-kr.edu.pl!agh.edu.pl!news.agh.edu.pl!news.onet.pl!not-
for-mail
From: MAc <mac_dx@tosiewytnie.poczta.onet.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: opinion about MAR mimic
Date: Wed, 21 Feb 2007 22:39:02 +0100
Organization: x
Lines: 18
Message-ID: <erie5n$m22$1@news.onet.pl>
References: <erhfk6$52k$1@news.onet.pl> <%5ZCh.307350$aJ.122856@attbi_s21>
Reply-To: mac_dx@tosiewytnie.poczta.onet.pl
NNTP-Posting-Host: gns26.internetdsl.tpnet.pl
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-2; format=flowed
Content-Transfer-Encoding: 8bit
X-Trace: news.onet.pl 1172093966 22594 83.3.96.26 (21 Feb 2007 21:39:26 GMT)
X-Complaints-To: usenet@news.onet.pl
NNTP-Posting-Date: Wed, 21 Feb 2007 21:39:26 +0000 (UTC)
X-Sender: tziRau1SlJeRbF6OI/pJQplh44CxR6pL
In-Reply-To: <%5ZCh.307350$aJ.122856@attbi_s21>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
Xref: g2news2.google.com rec.radio.amateur.homebrew:9122

Harold E. Johnson napisa�(a):
...
```

> Unless you're running a very inefficient antenna, you shouldn't need a
> preamp for anything 2-30 MHz with any reasonable receiver.

Thank You Harold.

I've read an article by IK4AUY from QEX Mar/Apr 2003 about Front-End
(standalone). He used very nice push-pull preamplifire in it (to
compensate insertion loss) - but i wanted to be smarter ;-)
And the question should be:

"If **I have decided to use RF preamplifire** CAN I use MMIC or should I
use more "conventional" solution. ;-)

73
MAc
sp9mrn

From 8355573346597051283
X-Google-Thread: fc2a5,3717d53d59494b6d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-online.de!news.germany.com!feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: opinion about MAR mimic
Message-ID: <l58pt2loo2m8e60pfto4kmpkegfdsbkfcs@4ax.com>
References: <erhfk6$52k$1@news.onet.pl>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 30
Date: Wed, 21 Feb 2007 23:47:41 +0200
NNTP-Posting-Host: 195.197.6.88
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1172094393 195.197.6.88 (Wed, 21 Feb 2007 23:46:33 EET)
NNTP-Posting-Date: Wed, 21 Feb 2007 23:46:33 EET
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:9123

On Wed, 21 Feb 2007 13:57:39 +0100, MAc
<mac_dx@tosiewytnie.poczta.onet.pl> wrote:

>Did anybody use MAR as a HF(1.8-28MHz) (not VHF) preamplifire?
>
>What about results?
>Any usable links or advices?

The problem seems to be that they have a lot gain (especially MAR-8 with a huge gain below 100 MHz), not so spectacular output intercept point, thus the input intercept point is quite low, which can cause problems, if a broadband antenna signal is fed into it.

Even if you have sufficiently selectivity in front of the MAR, you have to watch out for leakage capacitances around the filter, since the amplifier has gain well into the VHF and UHF bands.

I once tried to use a MAR as a preamplifier for the 29 MHz satellite band with a filter in front of it that I hastily, but since I have a few FM-BC stations (100-200 W each) and VHF and UHF TV transmitters (a few kW each) at 1-2 km distance, I got quite a lot of intermodulation products from these on the 29 MHz.

So even if you are making a filter for HF, you still would have to be careful about stray capacitances in the coils and stray inductances in the capacitors, in order to keep the strong VHF/UHF signals out of the MAR input :-).

Paul OH3LWR

From -8750413682905675016
X-Google-Thread: fc2a5,ab256f3486cfc0c3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: licence classes
Message-ID: <f09pt21d7f91ishndcec0rov9bob5sme3i@4ax.com>
References: <eqg5jj$4ug$1@news.onet.pl>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 38
Date: Wed, 21 Feb 2007 23:47:43 +0200
NNTP-Posting-Host: 195.197.6.88
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1172094394 195.197.6.88 (Wed, 21 Feb 2007 23:46:34 EET)
NNTP-Posting-Date: Wed, 21 Feb 2007 23:46:34 EET
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:9124

On Thu, 08 Feb 2007 22:44:19 +0100, MAc <mac_dx@tosiewytnie.poczta.onet.pl> wrote:

>Dear friends

>I know, that it is homebrewing group, but as an old visitor I am sure,
>that I can find help here.

You might get better answers from rec.radio.amateur.policy

>I need informations about ACTUAL licence classes in european countries.
>
>what classes, what frequencies, power and last but not least:
>what happend with "old" classes when it changed to new one
>
>(eg. in germany old classes were connected to one new (new CEPT))

Try to locate the HAREC (T/R 61-02) recommendation from www.ero.dk

At least previously, the annex contained a list of how the national various classes are mapped to the HAREC recommendation and requirements. At least you can get the names or code names of the national classes, which would help in googling for the actual national classes.

The T/R 61-01 recommendation on the same site might also be helpful, but less accurate.

As far as I know, there is no central registry for requirements and privileges, each country will interpret those two recommendations in their own way.

For power levels, the only international recommendation that I know, is the CEPT recommendation of 1 Werp at 135 kHz band, which due to the very low efficiency of any antenna of reasonable size, allows transmitters powers in the order of 1 kW in practice.

Paul OH3LWR

From 9193951214586775371
X-Google-Thread: 10c2ee,120657984dd7625c
X-Google-Thread: fc8b1,120657984dd7625c
X-Google-Thread: fc2a5,120657984dd7625c
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!
not-for-mail
NNTP-Posting-Date: Wed, 21 Feb 2007 15:48:52 -0600
Date: Wed, 21 Feb 2007 16:47:05 -0500
From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.0.8) Gecko/20061029
SeaMonkey/1.0.6
MIME-Version: 1.0
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew

Subject: Re: Hammarlund HX-50 choke question.
References: <PerCh.3042$vu2.1488@trnddc04>
<99idndd3iNCLwUHYnZ2dnUVZ_t6qnZ2d@rcn.net> <erhnh4$a59$1@panix2.panix.com>
<HrSdneYrqaqTMkHYnZ2dnUVZ_uqvnZ2d@rcn.net> <eribtd$mad$1@panix2.panix.com>
In-Reply-To: <eribtd$mad$1@panix2.panix.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <pbadnWXSnuvZI0HYnZ2dnUVZ_hKdnZ2d@rcn.net>
Lines: 24
NNTP-Posting-Host: 72.83.120.154
X-Trace: sv3-
w9nxEE5ZwAbl109Rb2NoWul+fL+goN2ADJv6B+cX3MF7+v6KIKFIlMEP8L5NiJYsWjcJP1v5hKY37Hn!
PC2Qf1FXuxf3dsfhZPM13efYxOi2hcsqkyEszveqfR9UJcYHYi4L9nnmgX+JpbtHUFk3pabTXQ/u!
duaddXfAoKgK
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.antiques.radio+phono:47061
rec.radio.amateur.boatanchors:7618 rec.radio.amateur.homebrew:9125

Scott Dorsey wrote:
> Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote:
>> A swinging choke aids in the *voltage* regulation of a choke input
>> power supply by having a high inductive reactance at low currents (where the
>> supply would tend to be too high in voltage), and having low inductive
>> reactance at high currents (where the supply would normally tend to droop.)
>>
>> Is that what you are thinking of?
>
> Ahh! So the increased current causes the inductive reactance to drop,
> causing the series impedance to drop. That makes sense, so long as the
> source impedance is the same all the time, right?
> --scott

If the source impedance changed, it could either help, or hurt the process.
It would all depend on how it changed. But I would expect that for the
usual diode, and transformer combination, the source impedance should be
pretty stable.

For a swinging choke to work, the power supply must be choke input. It
is necessary that the choke see the massive AC ripple that comes out of
the rectifier. No ripple, no regulating effect from the reactance.

-Chuck

From 10311857243947335
X-Google-Thread: fc2a5,3717d53d59494b6d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <erhfk6$52k$1@news.onet.pl> <%5ZCh.307350$aJ.122856@attbi_s21> <erie5n$m22$1@news.onet.pl>
Subject: Re: opinion about MAR mimic
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <wf3Dh.6583$PD2.4198@attbi_s22>
NNTP-Posting-Host: 12.219.128.249
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1172095068 12.219.128.249 (Wed, 21 Feb 2007 21:57:48 GMT)
NNTP-Posting-Date: Wed, 21 Feb 2007 21:57:48 GMT
Organization: AT&T ASP.att.net
Date: Wed, 21 Feb 2007 21:57:48 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:9126

> I've read an article by IK4AUY from QEX Mar/Apr 2003 about Front-End
> (standalone). He used very nice push-pull preamplifire in it (to
> compensate insertion loss) - but i wanted to be smarter ;-)
> And the question should be:
>
> "If **I have decided to use RF preamplifire** CAN I use MMIC or should I
> use more "conventional" solution. ;-)
>
> 73
> MAc
> sp9mrn

OK, in that case, the answer is NO. They haven't made an MMIC with the characteristics of IK4AUY's preamp. Not even in the same zip code as the characteristics of his pre-amp.

W4ZCB

From 1133757779190991258
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s48g2000cws.googlegroups.com!not-for-mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW Bands

Date: 21 Feb 2007 14:41:37 -0800
Organization: http://groups.google.com
Lines: 174
Message-ID: <1172097697.824624.157810@s48g2000cws.googlegroups.com>
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
   <z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net>
   <45D25B20.1090806@worldnet.att.net>
   <bx6Bh.18315$p9.3093@bignews7.bellsouth.net>
   <slrnetavn3.cf.gsm@cable.mendelson.com>
   <1171674635.846476.313740@s48g2000cws.googlegroups.com>
   <v7EBh.13287$B8.4679@bignews6.bellsouth.net>
   <1171830561.520342.64740@q2g2000cwa.googlegroups.com>
   <4TkBD9V8HN2FFAZs@ifwtech.co.uk>
   <1171858502.321693.286560@m58g2000cwm.googlegroups.com>
   <1171908159.721524.90150@m58g2000cwm.googlegroups.com>
   <1171929184.125827.137750@k78g2000cwa.googlegroups.com>
   <1171931085.488463.165330@l53g2000cwa.googlegroups.com>
   <1172080592.658625.191390@q2g2000cwa.googlegroups.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172097705 3928 127.0.0.1 (21 Feb 2007 22:41:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 21 Feb 2007 22:41:45 +0000 (UTC)
In-Reply-To: <1172080592.658625.191390@q2g2000cwa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-ntc-tb04.proxy.aol.com[CFC87091] (Prism/1.1.9), HTTP/1.1 cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: s48g2000cws.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:9127

From: "tack" <t...@flash.net> on 21 Feb 2007 09:56:32 -0800

>Here is an example of my second biggest peeve of these groups (the
>first being spam). It's ego posts. LenAnderson seems to be intent on
>demonstrating that he is the final authority; with an encyclopedic
>knowledge of all he is typing about.

If that is your perception as "the truth," then I submit that "truth" is not correct.

REC.RADIO.AMATEUR.HOMEBREW is chartered for designing, building radio equipment in the hobbyist's workshop; i.e., away from work in radio-electronics. You can read the FORMAL definition of it all you want and not come away with a much-different opinion.

What seems to be at question is whether or not KNOWLEDGE should be shared. Plus, who is the "qualified" judge of such knowledge. I've never claimed to be any ultimate judge or lawgiver of historical data. However, I've accumulated a number of decades of both professional (paid for services) and hobby experience (no pay for anything unless negative money outflow is a value) that stretches back to 1947. It is my personal opinion that radio-electronics is a totally-fascinating field of technology...so much so that I changed my career goals in life to electronics engineering after release from my US Army service. I've never been disappointed in that decision.

NO ONE here has any life experience in anything (including telegraphy) prior to the year 1900. ALL that any of us have for information on such long-ago times is historical descriptions. One of the problems with such historical information is WHO (or which organization) wrote it. An example is "morse code." Samuel F. B. Morse's "code" was originally all-numeric. That included the famous first message communicated by the Morse-Vail Telegraph Company from Washington, DC, to Baltimore, MD, in 1844. Morse's financial "angel" to the development of the telegraph system was the Vail family who got their money from railway equipment building. Alfred Vail would, according to the Vail descendents' website information and several other sources including the Radio Club of America, later suggest changing from an all-numerica code to one which included representation of the letters and common punctuation of the English language as well as Arabic numerals. This was pivotal in the success of the Morse-Vail telegraph system since, in effect, the code could be generated-sent-received and near-immediately transcribed into a common language.

There was no need of phrase books to translate phrases and words into a numeric code, then re-translate it on reception. But that was only the second of two innovations. The real first was described in the Morse-Vail Telegraph Patent as the "relay." That relay was quite similar to what is in wide use in electrical and electronic equipment today...a 'sensitive' (low-power) electromagnet mechanically and magnetically coupled to an electrical contact. That contact could substitute for the transmitting key/switch and thus power a second telegraph line through a local battery and extend that telegraph line farther than the original circuit. Up to three such relays could be used given the technological limits of early electrical apparatus.
It is my opinion (not "ego") that the telegraph Relay was the primary key to the success of the Morse-Vail Telegraph system. That basic telegraph system spread throughout the world during all of the later 1800s.

Let's consider INNOVATION and its relation to "radio" and this morse code. The first radio-as-a-communications-means was demonstrated in 1896, in Italy and in Russia. Morse code was used in the on-off "radio wave" switching. Why that? For one thing, that on-off code was already so mature (52 years) and widespread that many "dialects" of that representational code existed worldwide. Early radio was so technologically-primitive that simple on-off switching was the only PRACTICAL means to communicate. On-off switching. That is what the Morse-Vail Telegraph used in its RELAY contacts. The only technological difference was that "radio" eliminated the wires using electromagnetic wave propagation to carry the communication. That was a revolutionary step for mariners and quickly adopted. They could now 'signal' beyond the visible horizon, something they were never able to do quickly before this revolution.

But, in the midst of this revolutionary step of over-the-horizon near-instant communications, the Mythos developed about the Mode of "morse." Few could grasp the basic principles of this new "radio" but they could identify with the human-sensed on-off patterns and seeming magic of the patterns translatable to human-understood speech. Was the morse code the essential element to success of early radio? Not precisely. Those early damped-wave (spark-induced) "RF generators" and the gigantic rotary alternators (operating at VLF) were still turned all-on or all-off. What was essential for the speed of early radio was in using an on-off representation for the characters of a written language. The Morse-Vail Telegraph used English. They were the first success even though many had tried by various means prior to 1844. Had someone else in another country (and other language) been first and innovative enough, the name of the code could have been entirely different.

Innovation. Sometimes a necessity in hobby work. Some parts may not be available yet their type would enable simple operation and building. The hobbyist must innovate to find substitutes. Sometimes that can be done by others and thus worthy of spreading information around. That's what newsgroups like this are good for...informing others of something useful in the hobby of designing-building-repairing of radio-electronics.

Yes, there ARE diversions in this newsgroup into non-hobby subjects. Especially so in the USA amateur radio "revolution" of the elimination of morse code testing for a US amateur radio license. Many are emotionally wounded by that decision but that is just unfortunate for them. Progress goes on, innovation continues, the technology and ways to use that are evolving, changing. But, some want to "rewrite" history (or selectively use certain parts while omitting other parts) to make their own personal point about something dear to their hearts. James Miccolis is one of those over in RRAP. He has an archived decade of experience in "correcting" others in RRAP who do not agree with his one-sided views of amateur radio.

For my part, I like to contribute information on designing-building-repairing of radio-electronics. I try to be accurate when doing so. No, I'm not presumptuous about "knowing everything" since I don't. I'm still learning things and eagerly do that...in between trying to keep up with the constantly-changing-state of the electronics art. We are all diverse and many of us in here come from differing occupations involving electronics. Yet I think that ALL who really like to get involved in the technology of radio-electronics DO want to contribute when we can. It IS a fascinating field of technology.

>By the way, I despise flaming and I came a bit close to flaming
>Anderson, but couldn't help but say something about a monologue like
>his.

"Flaming" happens. It is the nature of the beast. You've already done what you despise but that doesn't bother me. After 23 years of doing computer-modem communications, I've seen much worse. :-)

"Monologues?" :-) Yes, others get that impression. Sometimes one has to spend time "connecting the dots" (so to speak) in order to prove a point to one-sided others. Note: Explanations sometimes require more than three sentences in a paragraph. I was influenced by the enjoyable PBS series "Connections" by James Burke. There is a huge MASS of inter-related technology that has been developing among humans for centuries. I think it worthy to examine as much of that as it applies as possible. Others do not. <shrug>

Regards,
Leonard H. Anderson (real person, not a pseudonym)
LenAnderson@ieee.org
ex-RA16408336

From 8191383951081429184
X-Google-Thread: fc2a5,3717d53d59494b6d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <erhfk6$52k$1@news.onet.pl> <%5ZCh.307350$aJ.122856@attbi_s21> <erie5n$m22$1@news.onet.pl> <wf3Dh.6583$PD2.4198@attbi_s22>
Subject: Re: opinion about MAR mimic
Lines: 33
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <y94Dh.308121$aJ.203466@attbi_s21>
NNTP-Posting-Host: 12.219.128.249
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1172098782 12.219.128.249 (Wed, 21 Feb 2007 22:59:42 GMT)
NNTP-Posting-Date: Wed, 21 Feb 2007 22:59:42 GMT
Organization: AT&T ASP.att.net
Date: Wed, 21 Feb 2007 22:59:42 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:9128

>> I've read an article by IK4AUY from QEX Mar/Apr 2003 about Front-End
>> (standalone). He used very nice push-pull preamplifire in it (to
>> compensate insertion loss) - but i wanted to be smarter ;-)
>> And the question should be:
>>
>> "If **I have decided to use RF preamplifire** CAN I use MMIC or should I
>> use more "conventional" solution. ;-)
>>
>> 73
>> MAc
>> sp9mrn
>
> OK, in that case, the answer is NO. They haven't made an MMIC with the
> characteristics of IK4AUY's preamp. Not even in the same zip code as the
> characteristics of his pre-amp.
>
> W4ZCB

Let me re-phrase that Mac, there's not an MAR that will match the performance of the IK4 amplifier. RF Microdevices however, makes an RF2317 linear CATV Amplifier that if you operated two in push pull would probably make it. You'd wind up with under a 5 dB noise figure, 15 dB of gain and an IIP3 of +35 dBm. (Output Ip3 >+50 dBm!)

The power requirements are not insignificant, a single one requires 9 Volts at 175 mA. a pair, 350 mA.

W4ZCB
>
>

```
From 7225145615453960327
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news3.google.com!postnews.google.com!
h3g2000cwc.googlegroups.com!not-for-mail
From: N2EY@AOL.COM
Newsgroups: rec.radio.amateur.homebrew
Subject: Making Filter Chokes
Date: 21 Feb 2007 16:45:50 -0800
Organization: http://groups.google.com
Lines: 32
Message-ID: <1172105150.336095.284560@h3g2000cwc.googlegroups.com>
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
   <z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net>
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   <bx6Bh.18315$p9.3093@bignews7.bellsouth.net>
   <slrnetavn3.cf.gsm@cable.mendelson.com>
   <1171674635.846476.313740@s48g2000cws.googlegroups.com>
   <v7EBh.13287$B8.4679@bignews6.bellsouth.net>
   <1171830561.520342.64740@q2g2000cwa.googlegroups.com>
   <4TkBD9V8HN2FFAZs@ifwtech.co.uk>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 22 Feb 2007 00:45:55 +0000 (UTC)
In-Reply-To: <1172080592.658625.191390@q2g2000cwa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 Turboweb [rtc-tc061 8.4.1], HTTP/1.1 cache-rtc-
aa07.proxy.aol.com[98A3640B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: h3g2000cwc.googlegroups.com; posting-host=152.163.100.11;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news2.google.com rec.radio.amateur.homebrew:9129
```

On Feb 21, 12:56=EF=BF=BDpm, "tack" <t...@flash.net> wrote:

> Say, can anyone point me to some information
> on creating my own filter
> chokes?

What size? Do you mean the type commonly used in
hollow-state gear - several henries at a couple of dozen
to a couple of hundred milliamps, insulated for hundreds
or thousands of volts?

If so, there is some info in older ARRL Handbooks and
in older versions of "Reference Data For Radio Engineers".

I can look up some details if needed.

>=A0Is there a source that anyone knows of for silicon-iron
> core plates? =A0

aka laminations

I googled "silicon iron transformer laminations" and found
a lot of stuff. Take a look. But I suspect that they may be
geared to production quantity orders.

One common source is the power transformer from an
old microwave oven. These are often welded together,
rather than bolted, and it may take a bit of work with a grinder to
get the core apart.

73 de Jim, N2EY

```
From -4007548832879700937
X-Google-Thread: fc2a5,8259303a2f69f348
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 21 Feb 2007 19:41:40 -0600
Date: Wed, 21 Feb 2007 17:42:15 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 813's as Modulators
References: <12toem5go4rou40@corp.supernews.com>
In-Reply-To: <12toem5go4rou40@corp.supernews.com>
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ipk2okiN2dwTRdHCv3OngQo0czZsfIoqtzzg2xQXHpg0Zm30jyjOl493u4eEfKZChX7EIC1rQyfg!
udbTYzebqwOUI0p3
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9130

Jack Schmidling wrote:

> My new (first one in 50 years) is an 8000 modulated by a pair of 813's
> running as triodes. The RF deck and Pw supply are up and running and I
> am working on the modulator now.
>
> My plans are to drive it with the Ranger and eventually do a stand alone
> audio section. The Range gets poor audio reports in spite of months of
> trying to resolve it.
>
> I am wondering if anyone here as any experience using 813's as triodes
> and would also like some help on the audio driver.
>
>
>
> I bought a little solid state audio pre-amp and driver that puts out
> about 4W at 8 ohms. This is probably not enough to drive the 813's so I
> need more poop and some ideas on how to drive the modulators with the 8
> ohm amp.
>
> There are some in progress pics of this project at
> http://schmidling.com/radio.htm
>
>
> Jack K9ACT
>
>

If I have my numbers right, a peak envelope power of 1500 watts equates
to a carrier power of 375 watts, which requires an audio amplifier to
put out 200 watts (to round up a bit).

If the 813's were wired as pentodes they could deliver 600 watts in AB-2
with less than a watt on the grids. I'm not at all sure of what you'd
lose using them as triodes, but I'll bet they'd deliver 200W in AB-1
with no grid power consumed at all.

Antique Radio Supply (www.tubesandmore.com) has a reprint of an RCA

transmitting tube handbook that has extensive data on the 813 -- it
should have enough data in there to figure out the design stuff, and
directions in the front on how to use the data.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From -8513337060689252021
X-Google-Thread: 10d85e,cfa01e565e46a6bb
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X-Google-Thread: fc2a5,cfa01e565e46a6bb
X-Google-Thread: fcc6e,cfa01e565e46a6bb
X-Google-Thread: 1021cd,cfa01e565e46a6bb
X-Google-Attributes: gid10d85e,gid10cf58,gidfc2a5,gidfcc6e,gid1021cd,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 22 Feb 2007 01:49:47 -0600
From: Richard Clark <kb7qhc@comcast.net>
Newsgroups:
rec.audio.opinion,rec.audio.pro,rec.radio.amateur.homebrew,rec.radio.amateur.anten
na,comp.sys.ibm.pc.soundcard.tech
Subject: Re: Good sound card & software ?
Date: Wed, 21 Feb 2007 23:47:39 -0800
Message-ID: <mbeqt2tfvb1ea3pgjtle43ccjud2u0v94t@4ax.com>
References: <oj0Ch.12273$gj4.11472@newssvr14.news.prodigy.net>
<45d9ad82.1201022@news.sysmatrix.net> <98rjt2tmesscthi5jk8s8knorfavn7ld3g@4ax.com>
<45dafa62.615953@news.sysmatrix.net>
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Content-Transfer-Encoding: 7bit
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ap3ndvE+teY=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

X-Postfilter: 1.3.34
Xref: g2news2.google.com rec.audio.opinion:62091 rec.audio.pro:93492
rec.radio.amateur.homebrew:9131 rec.radio.amateur.antenna:25518
comp.sys.ibm.pc.soundcard.tech:357

On Tue, 20 Feb 2007 14:04:19 GMT, NoSpam@daqarta.com (Bob Masta)
wrote:

>On Mon, 19 Feb 2007 10:34:50 -0800, Richard Clark <kb7qhc@comcast.net>
>wrote:
>
>>On Mon, 19 Feb 2007 14:06:30 GMT, NoSpam@daqarta.com (Bob Masta)
>>wrote:
>>
>>>FFT size is 1024 points, so you won't be able to use
>>>this for tuning your guitar, if that's what you had in mind.
>>
>>Hi Bob,
>>
>>Why not? 1024 points (bins) has enough resolution to shake out every
>>note on a Hawaiian slide guitar. The only care is selecting the
>>sampling rate and most FFT packages should be able to resolve
>>exceedingly fine.
>>
>
>The problem is that the line resolution of an FFT is the sample
>rate divided by the number of time points. So with 44100 Hz
>sample rate and 1024 points you get a bit over 43 Hz per line.
>So the first non-DC spectral line would be 43 Hz, which is about
>a low F on a bass guitar, and the very next line would be the F
>an octave above that... you'd miss an entire octave!

Hi Bob,

What you describe here, and that which followed, is a problem of either hardware (I design my own) or a perception of Fourier techniques that is constrained to common applications.

The trick is one that is encountered quite commonly with RF designers (and those Hams that actually practice the craft instead of being appliance operators) - it is called mixing. Or to describe it with more precision (as an audio crowd has a restricted meaning for the term "mixing") heterodyning or modulating/demodulating. Simply put, the data channel is pre-processed by multiplying it with a reference cosine before being passed onto the FFT. (Although this sounds like windowing, it is not.) Of course, the output of the FFT has to have its units recast. In the old days, this was called "zooming" or an arbitrary view of a single frequency encompassed by a span of far higher resolution than that obtained from a simple transform. I would quickly point out that the simple transform is still performed (same bin interval, same bin count), but it has been augmented.

This technique, plus a waterfall display, is useful in tracing down mechanical problems in journals, bearing races (with bearing run-out or ball defect) and bad gear meshes. It also relates to Hank's desire to test individual construction components in the guitar as all of these problems relate to a subtle data inflection that can be destructive in machinery, or discordant in music. The zoom feature can reveal these defects with remarkable resolution.   As I said, the FFT as originally described can differentiate every note of an Hawaiian slide guitar. Perhaps I should have added the proviso: provided you use a synchronized tracking generator for mixing. However, given this can be done digitally (no one needs a hardware oscillator), no change in hardware is necessary. All the data that is needed is already there.

>   www.daqarta.com

by the way, this seems to be a dead link. (later) I take that back, but it took a lot of retries over the span of an hour.

Further, it seems you have a lot of what I mention above covered in your pages, by parts, but none of them encompass the whole of "zooming."

And for your page on windowing, drop me an email if you would like to see some pascal routines embodying some very tight windows. These came from my time with HP whose chief engineer soon after departed for a chair at some eastern university.

73's
Richard Clark, KB7QHC

```
From -5915171941398362709
X-Google-Thread: fc2a5,3717d53d59494b6d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.nask.pl!
news.nask.org.pl!newsfeed.atman.pl!newsfeed.gazeta.pl!news.onet.pl!not-for-mail
From: MAc <mac_dx@tosiewytnie.poczta.onet.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: opinion about MAR mimic
Date: Thu, 22 Feb 2007 11:49:15 +0100
Organization: x
Lines: 14
Message-ID: <erjsfb$lq0$1@news.onet.pl>
References: <erhfk6$52k$1@news.onet.pl> <%5ZCh.307350$aJ.122856@attbi_s21>
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X-Complaints-To: usenet@news.onet.pl
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User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
Xref: g2news2.google.com rec.radio.amateur.homebrew:9132

Harold E. Johnson napisał(a):

> OK, in that case, the answer is NO.

The answer is Thank You

  They haven't made an MMIC with the
> characteristics of IK4AUY's preamp. Not even in the same zip code as the
> characteristics of his pre-amp.

Ok I understood. Thanks for stopping me from making stupid things :-)

MAc
sp9mrn

From 1597427252165485672
X-Google-Thread: fc2a5,3717d53d59494b6d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news1.google.com!news2.google.com!newsfeed.gamma.ru!
Gamma.RU!newsfeed.freenet.de!news.tiscali.de!newsfeed.hanau.net!news-fra1.dfn.de!
newsfeed.pionier.net.pl!newsfeed.gazeta.pl!news.onet.pl!not-for-mail
From: MAc <mac_dx@tosiewytnie.poczta.onet.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: opinion about MAR mimic
Date: Thu, 22 Feb 2007 11:50:38 +0100
Organization: x
Lines: 13
Message-ID: <erjshu$lq0$2@news.onet.pl>
References: <erhfk6$52k$1@news.onet.pl>
<l58pt2loo2m8e60pfto4kmpkegfdsbkfcs@4ax.com>
Reply-To: mac_dx@tosiewytnie.poczta.onet.pl
NNTP-Posting-Host: gns26.internetdsl.tpnet.pl
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 8bit
X-Trace: news.onet.pl 1172141464 22336 83.3.96.26 (22 Feb 2007 10:51:04 GMT)
X-Complaints-To: usenet@news.onet.pl
NNTP-Posting-Date: Thu, 22 Feb 2007 10:51:04 +0000 (UTC)
X-Sender: tziRau1SlJeRbF6OI/pJQplh44CxR6pL
In-Reply-To: <l58pt2loo2m8e60pfto4kmpkegfdsbkfcs@4ax.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
Xref: g2news2.google.com rec.radio.amateur.homebrew:9133

Paul Keinanen napisał(a):

> I once tried to use a MAR as a preamplifier for the 29 MHz satellite
> band with a filter in front of it that I hastily, but since I have a
> few FM-BC stations (100-200 W each) and VHF and UHF TV transmitters (a
> few kW each) at 1-2 km distance, I got quite a lot of intermodulation
> products from these on the 29 MHz.

Thanks

73
MAc
sp9mrn

```
From 3583135067453291441
X-Google-Thread: fc2a5,8259303a2f69f348
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q2g2000cwa.googlegroups.com!not-for-
mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 813's as Modulators
Date: 22 Feb 2007 05:41:57 -0800
Organization: http://groups.google.com
Lines: 41
Message-ID: <1172151717.472484.205960@q2g2000cwa.googlegroups.com>
References: <12toem5go4rou40@corp.supernews.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1172151731 7660 127.0.0.1 (22 Feb 2007 13:42:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 22 Feb 2007 13:42:11 +0000 (UTC)
In-Reply-To: <12toem5go4rou40@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q2g2000cwa.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news2.google.com rec.radio.amateur.homebrew:9134
```

On Feb 21, 7:27 am, Jack Schmidling <a...@mc.net> wrote:
> My new (first one in 50 years) is an 8000 modulated by a pair of 813's
> running as triodes. The RF deck and Pw supply are up and running and I
> am working on the modulator now.
>
> My plans are to drive it with the Ranger and eventually do a stand alone
> audio section. The Range gets poor audio reports in spite of months of
> trying to resolve it.
>
> I am wondering if anyone here as any experience using 813's as triodes
> and would also like some help on the audio driver.

My sole experience is using them not in triode mode, but in pentode mode. The RCA specs tell about using a pair in AB1 as a modulator. Specs here:

  http://www.mif.pg.gda.pl/homepages/frank/sheets/079/8/813.pdf

In triode mode (plate connected to screen) you'd be limited to 750 volts on the plate if you follow the spec sheet religiously, which will really hurt you in terms of AF power ability. I'm guessing that a pair of 813's used this way would not put out more than 120W of audio power. Many beam power tubes will take more volts on the screen than the spec sheet will say without arcing over but I cannot tell you about this mode on an 813.

In pentode mode you have to do a fairly stiff screen supply (which you might have elsewhere in your line-up). Don't forget the -80V or so grid bias too.

The "classic" way of doing all this is with a pair or maybe two pairs of 811A's, which are zero-bias as a class B modulator. You can easily get 250W of audio out of a pair or 500W out of two pairs. Driving power isn't zero but it's very moderate (less than 10 watts).

The tubes for all this is easy - but you've got a modulation transformer lined up already? Choosing impedances to match that transformer is probably more relevant than any dickering about tubes.

Tim.

```
From -425531036630184300
X-Google-Thread: fc2a5,f38d6d9287e6e350
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s48g2000cws.googlegroups.com!not-for-mail
From: phlnxsc@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Testing a mixer..
Date: 8 Feb 2007 06:02:52 -0800
Organization: http://groups.google.com
Lines: 59
Message-ID: <1170943372.554858.316520@s48g2000cws.googlegroups.com>
References: <1170699202.802624.38420@s48g2000cws.googlegroups.com>
   <eq936u$69s$1@theodyn.ncf.ca>
   <1170855004.284218.268870@j27g2000cwj.googlegroups.com>
   <Pine.NEB.4.64.0702071513300.11406@panix2.panix.com>
   <1170936041.851202.212620@p10g2000cwp.googlegroups.com>
   <1170937963.530724.82230@s48g2000cws.googlegroups.com>
NNTP-Posting-Host: 85.108.78.240
Mime-Version: 1.0
```

Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170943385 19722 127.0.0.1 (8 Feb 2007 14:03:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Feb 2007 14:03:05 +0000 (UTC)
In-Reply-To: <1170937963.530724.82230@s48g2000cws.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; tr; rv:1.8.1.1) Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s48g2000cws.googlegroups.com; posting-host=85.108.78.240;
   posting-account=NpE-yA0AAAAh2Gb39c5TBmFfsHehXa77
Xref: g2news2.google.com rec.radio.amateur.homebrew:8984

On Feb 8, 2:32 pm, "Denny" <k...@mailblocks.com> wrote:
> On Feb 8, 7:00 am, phln...@gmail.com wrote:
>
>
>
> > I finally tested the circuit. I started with the transistor mixer as
> > you said. After being sure that the oscillators was working, i
> > connected them to the mixer and turned both of them on. When i turned
> > on the second one, i started to hear some strong low frequency
> > cycling, as you said before. When i turned off one of the oscillators,
> > the sound was gone. So that shows the mixer is working, i guess.
>
> > I have seen some crystal oscillator circuits with a trimmer connected
> > in series with the crystal. I thougt, that way i could generate some
> > higher frequency sound. I connected a trimmer to one of the
> > oscillators and it made the circuit output a real 'beat note'. I could
> > change the tone frequency with adjusting the trimmer. It could even
> > generate frequencies as high as 2 KHz. I didn't think that this small
> > trimmer could change the oscillation frequency that much.
>
> > I also experienced some strange things. While playing with that
> > trimmer, i found out that the mixer's power connection was lying on
> > the table. I connected it again, but it didn't change anything.
> > Circuit went on working as before. Is this BJT mixer capable of mixing
> > without power applied? And even the two oscillators were exactly same,
> > i found that one of them were more sensitive than the other one.
> > Touching the trimmer with a screwdriver changed the frequency like
> > 400-500 Hz, while with the other one, it had no effect.
>
> > After then, as you suggested, i disconnected one of the oscillators
> > and moved it a bit far away from the mixer. I could still hear it from
> > 1-2 meters away. I turned off the mixer to see if it works with this
> > situation too, but when i turned it off, i couldn't hear the other
> > oscillator even from 10 cm's. What about this?
>
> > I will test the diode mixer, too, but i have some problems with the
> > transformer right now. Until then, i will play with this one and see
> > if i can hear some real stuff with this. Do you think it is possible
> > with this simple setup, and with a long wire?
>

> > Thanks....
>
> Sounds like the one oscillator is not working the way you think...
>
> Yes, a transistor is a pair of diodes nose to nose, and can mix/
> rectify without being powered.. But will need power to work as
> intended...
>
> Look, take a diode and a cap and a resistor and make an RF probe for
> your VOM... Look in the ARRL handbook, or the RSGB, or just about any
> handbook for this RF probe circuit..
>
> Cheers ... denny

I did it, but for some reason it just doesn't read anything. Doesn't
the above test show that both oscillators are working?

Thanks..

From 1321155260916619366
X-Google-Thread: fc2a5,ab256f3486cfc0c3,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-
online.de!news.nask.pl!news.nask.org.pl!news.cyf-kr.edu.pl!agh.edu.pl!
news.agh.edu.pl!news.onet.pl!not-for-mail
From: MAc <mac_dx@tosiewytnie.poczta.onet.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: licence classes
Date: Thu, 08 Feb 2007 22:44:19 +0100
Organization: x
Lines: 18
Message-ID: <eqg5jj$4ug$1@news.onet.pl>
Reply-To: mac_dx@tosiewytnie.poczta.onet.pl
NNTP-Posting-Host: gns26.internetdsl.tpnet.pl
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-2; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.onet.pl 1170971071 5072 83.3.96.26 (8 Feb 2007 21:44:31 GMT)
X-Complaints-To: usenet@news.onet.pl
NNTP-Posting-Date: Thu, 8 Feb 2007 21:44:31 +0000 (UTC)
X-Sender: tziRau1SlJeRbF6OI/pJQplh44CxR6pL
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8985

Dear friends
I know, that it is homebrewing group, but as an old visitor I am sure,
that I can find help here.

I need informations about ACTUAL licence classes in european countries.

what classes, what frequencies, power and last but not least:
what happend with "old" classes when it changed to new one

(eg. in germany old classes were connected to one new (new CEPT))

thank you in advance

73
MAc
sp9mrn

```
From -441947330461643823
X-Google-Thread: fc2a5,ebf60f6e9850389a,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe03.lga.POSTED!53ab2750!not-for-mail
From: john james <anyone@anywherte.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Cobra 148GTL for 10 METER
Message-ID: <g59ns2p0je934ud0q4ipkqrbrb9rf09u78@4ax.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 17
X-Trace:
pgpdkimbbbabbbpelhbgfpgcdpepfmkghinlogoofdcpmfjnmfhcdekebndpcaaklafoknenjhklcndmkp
ajkcffmbchglapnjlijiknmibodmelkianjngcekemlgohmdgngjfkdegidppb
NNTP-Posting-Date: Thu, 08 Feb 2007 15:37:30 MST
Date: Thu, 08 Feb 2007 16:37:43 -0600
Xref: g2news2.google.com rec.radio.amateur.homebrew:8986
```

I have an original Cobra 148GTL CB Radio. I know that i can modify it to operate in the 10Meter band by switching the crystal to a 11.6908MHz crystal.

is anybody familiar with this mod? If so, how do i determine what frequency each channel will be at? will i need to purchase a freq. countert o determine what freq. will go with what channel?

Also, will my 102: whip work with 10M, or rather will it give me a close enough SWR to suffice, or will i need to purchase a new antenna?

Any information or assistance would be greatly appreciated.

Eddie

sogregory--@--NOSPAM--.charter.net

From -9151300035039776926
X-Google-Thread: fc2a5,ebf60f6e9850389a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 08 Feb 2007 16:58:08 -0600
Date: Thu, 08 Feb 2007 22:58:06 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cobra 148GTL for 10 METER
References: <g59ns2p0je934ud0q4ipkqrbrb9rf09u78@4ax.com>
In-Reply-To: <g59ns2p0je934ud0q4ipkqrbrb9rf09u78@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <_o2dnVG_NIydNlbYnZ2dnUVZ_oernZ2d@bright.net>
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+1swG6HVu4OJnjiJU164Y6wPjs4ZAMKqkOadJk+fkqw4PYZaIBVsCcYqdBusOun3Qg9jDCX34XiK!
kKR3akXcPg==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8987

Not sure of the mixing scheme of the cobra, so I won't comment on that part of your question. Since the 10M band is higher in frequency than CB, shortening the 102" whip experimentally should get your SWR down...but you will need an SWR bridge to check that (or an antenna analyzer such as the MFJ 259 or similar).

Scott

john james wrote:

> I have an original Cobra 148GTL CB Radio. I know that i can modify it
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```
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> close enough SWR to suffice, or will i need to purchase a new antenna?
>
> Any information or assistance would be greatly appreciated.
>
> Eddie
>
> sogregory--@--NOSPAM--.charter.net
>


From 1098980610044540169
X-Google-Thread: fc2a5,ebf60f6e9850389a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!homer!news.glorb.com!news-
spur1.glorb.com!news.glorb.com!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe02.lga.POSTED!53ab2750!not-for-mail
From: john james <anyone@anywherte.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cobra 148GTL for 10 METER
Message-ID: <oscns2heph5eii9ul6tnpu491p6knl1190@4ax.com>
References: <g59ns2p0je934ud0q4ipkqrbrb9rf09u78@4ax.com>
<_o2dnVG_NIydNlbYnZ2dnUVZ_oernZ2d@bright.net>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 38
X-Trace:
nphhjmdkmllhpdkelhbgfpgcdpepfmkgdgfopgnchieclkbomfhcdekebndpcaaklafoknenjhklcndmkp
ajkcffmbchglapnjlijiknmibodmelhanmidppbgiioffcglbbcfickjagekga
NNTP-Posting-Date: Thu, 08 Feb 2007 16:35:16 MST
Date: Thu, 08 Feb 2007 17:35:30 -0600
Xref: g2news2.google.com rec.radio.amateur.homebrew:8988

Hmm.. ok .. *IF* I remeber correctly, CB SWR meters are good for up to
30MHZ. so I can use the one I already own, correct?

Eddie


On Thu, 08 Feb 2007 22:58:06 +0000, Scott <acepilot@bloomer.net>
wrote:

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>part of your question.  Since the 10M band is higher in frequency than
```

```
>CB, shortening the 102" whip experimentally should get your SWR
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>>
>> Eddie
>>
>> sogregory--@--NOSPAM--.charter.net
>>
```

```
From -6047054601424138551
X-Google-Thread: fc2a5,ebf60f6e9850389a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!
roadrunner.com!not-for-mail
Message-ID: <45CBD4CA.1080709@nettally.com>
Date: Thu, 08 Feb 2007 20:56:26 -0500
From: **THE-RFI-EMI-GUY** <rhyolite@nettally.com>
Organization: Central Scrutinizer
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To: john james <anyone@anywherte.net>
Subject: Re: Cobra 148GTL for 10 METER
References: <g59ns2p0je934ud0q4ipkqrbrb9rf09u78@4ax.com>
<_o2dnVG_NIydNlbYnZ2dnUVZ_oernZ2d@bright.net>
<oscns2heph5eii9ul6tnpu491p6knl1190@4ax.com>
In-Reply-To: <oscns2heph5eii9ul6tnpu491p6knl1190@4ax.com>
Content-Type: multipart/alternative;
 boundary="------------020004030800070802070408"
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```
Lines: 145
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8989

This is a multi-part message in MIME format.
--------------020004030800070802070408
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit

Should work fine

john james wrote:

>Hmm.. ok .. *IF* I remeber correctly, CB SWR meters are good for up to
>30MHZ. so I can use the one I already own, correct?
>
>Eddie
>
>
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>wrote:
>
>
>
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>>Scott
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>>
>>
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>>>
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>>>
>>>Also, will my 102: whip work with 10M, or rather will it give me a
>>>close enough SWR to suffice, or will i need to purchase a new antenna?
>>>
>>>Any information or assistance would be greatly appreciated.
>>>
>>>Eddie
>>>
>>>sogregory--@--NOSPAM--.charter.net
```

```
>>>
>>>
>>>
>
>
>

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money"  ;-P



--------------020004030800070802070408
Content-Type: text/html; charset=us-ascii
Content-Transfer-Encoding: 7bit

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
  <meta content="text/html;charset=ISO-8859-1" http-equiv="Content-Type">
  <title></title>
</head>
<body bgcolor="#ffffff" text="#000000">
Should work fine<br>
<br>
john james wrote:<br>
<blockquote cite="midoscns2heph5eii9ul6tnpu491p6knl1190@4ax.com"
 type="cite">
  <pre wrap="">Hmm.. ok .. *IF* I remeber correctly, CB SWR meters are good for up
to
30MHZ. so I can use the one I already own, correct?

Eddie



On Thu, 08 Feb 2007 22:58:06 +0000, Scott <a class="moz-txt-link-rfc2396E"
href="mailto:acepilot@bloomer.net">&lt;acepilot@bloomer.net&gt;</a>
wrote:

  </pre>
  <blockquote type="cite">
    <pre wrap="">Not sure of the mixing scheme of the cobra, so I won't comment on
that
part of your question.  Since the 10M band is higher in frequency than
CB, shortening the 102" whip experimentally should get your SWR
down...but you will need an SWR bridge to check that (or an antenna
analyzer such as the MFJ 259 or similar).
```

```
Scott


john james wrote:

    </pre>
    <blockquote type="cite">
      <pre wrap="">I have an original Cobra 148GTL CB Radio. I know that i can
modify it
to operate in the 10Meter band by switching the crystal to a
11.6908MHz crystal.

is anybody familiar with this mod? If so, how do i determine what
frequency each channel will be at? will i need to purchase a freq.
countert o determine what freq. will go with what channel?

Also, will my 102: whip work with 10M, or rather will it give me a
close enough SWR to suffice, or will i need to purchase a new antenna?

Any information or assistance would be greatly appreciated.

Eddie

<a class="moz-txt-link-abbreviated" href="mailto:sogregory--@--
NOSPAM--.charter.net">sogregory--@--NOSPAM--.charter.net</a>

      </pre>
    </blockquote>
  </blockquote>
  <pre wrap=""><!---->
  </pre>
</blockquote>
<br>
<pre class="moz-signature" cols="72">--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"&copy;

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money"  ;-P

</pre>
</body>
</html>

--------------020004030800070802070408--


From 6918013398722950926
X-Google-Thread: fc2a5,f38d6d9287e6e350
X-Google-Attributes: gidfc2a5,public
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j27g2000cwj.googlegroups.com!not-for-
mail
From: "Denny" <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Testing a mixer..
Date: 9 Feb 2007 04:12:57 -0800
Organization: http://groups.google.com
Lines: 80
Message-ID: <1171023177.262221.246560@j27g2000cwj.googlegroups.com>
References: <1170699202.802624.38420@s48g2000cws.googlegroups.com>
   <eq936u$69s$1@theodyn.ncf.ca>
   <1170855004.284218.268870@j27g2000cwj.googlegroups.com>
   <Pine.NEB.4.64.0702071513300.11406@panix2.panix.com>
   <1170936041.851202.212620@p10g2000cwp.googlegroups.com>
   <1170937963.530724.82230@s48g2000cws.googlegroups.com>
   <1170943372.554858.316520@s48g2000cws.googlegroups.com>
NNTP-Posting-Host: 71.90.42.60
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171023194 24609 127.0.0.1 (9 Feb 2007 12:13:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 9 Feb 2007 12:13:14 +0000 (UTC)
In-Reply-To: <1170943372.554858.316520@s48g2000cws.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; IEMB3; IEMB3),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j27g2000cwj.googlegroups.com; posting-host=71.90.42.60;
   posting-account=GhrC0g0AAACdrABM-CDx8Fhs5lKJR5q2
Xref: g2news2.google.com rec.radio.amateur.homebrew:8990

On Feb 8, 9:02 am, phln...@gmail.com wrote:
> On Feb 8, 2:32 pm, "Denny" <k...@mailblocks.com> wrote:
>
>
>
>
>
> > On Feb 8, 7:00 am, phln...@gmail.com wrote:
>
> > > I finally tested the circuit. I started with the transistor mixer as
> > > you said. After being sure that the oscillators was working, i
> > > connected them to the mixer and turned both of them on. When i turned
> > > on the second one, i started to hear some strong low frequency
> > > cycling, as you said before. When i turned off one of the oscillators,
> > > the sound was gone. So that shows the mixer is working, i guess.
>
> > > I have seen some crystal oscillator circuits with a trimmer connected
> > > in series with the crystal. I thougt, that way i could generate some
> > > higher frequency sound. I connected a trimmer to one of the
> > > oscillators and it made the circuit output a real 'beat note'. I could
> > > change the tone frequency with adjusting the trimmer. It could even
```

> > > generate frequencies as high as 2 KHz. I didn't think that this small
> > > trimmer could change the oscillation frequency that much.
>
> > > I also experienced some strange things. While playing with that
> > > trimmer, i found out that the mixer's power connection was lying on
> > > the table. I connected it again, but it didn't change anything.
> > > Circuit went on working as before. Is this BJT mixer capable of mixing
> > > without power applied? And even the two oscillators were exactly same,
> > > i found that one of them were more sensitive than the other one.
> > > Touching the trimmer with a screwdriver changed the frequency like
> > > 400-500 Hz, while with the other one, it had no effect.
>
> > > After then, as you suggested, i disconnected one of the oscillators
> > > and moved it a bit far away from the mixer. I could still hear it from
> > > 1-2 meters away. I turned off the mixer to see if it works with this
> > > situation too, but when i turned it off, i couldn't hear the other
> > > oscillator even from 10 cm's. What about this?
>
> > > I will test the diode mixer, too, but i have some problems with the
> > > transformer right now. Until then, i will play with this one and see
> > > if i can hear some real stuff with this. Do you think it is possible
> > > with this simple setup, and with a long wire?
>
> > > Thanks....
>
> > Sounds like the one oscillator is not working the way you think...
>
> > Yes, a transistor is a pair of diodes nose to nose, and can mix/
> > rectify without being powered.. But will need power to work as
> > intended...
>
> > Look, take a diode and a cap and a resistor and make an RF probe for
> > your VOM... Look in the ARRL handbook, or the RSGB, or just about any
> > handbook for this RF probe circuit..
>
> > Cheers ... denny
>
> I did it, but for some reason it just doesn't read anything. Doesn't
> the above test show that both oscillators are working?
>
> Thanks..- Hide quoted text -
>
> - Show quoted text -

Phin,
In a word, no...
You need to get that RF probe working and test it on a known RF
source... Seems someone in your area should have a crystal oscillator
or such, that you can use to prove the probe works... Order a crystal
oscillator from Mouser, DigiKey, where ever, (~$3.00) and use that as
a test source...
Then you need to check that both of your oscillators are generating RF
of roughly the same amplitude, and use a receiver to check the

frequency of each oscillator...
Did you test your audio amp?
Then and only then are you ready to trouble shoot the mixer...

denny / k8do

From 5381109887855224438
X-Google-Thread: fc2a5,5998ad86883aa65a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q2g2000cwa.googlegroups.com!not-for-mail
From: benjamic@michigan.gov
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MC1350 IC's
Date: 9 Feb 2007 09:36:45 -0800
Organization: http://groups.google.com
Lines: 5
Message-ID: <1171042604.936514.14200@q2g2000cwa.googlegroups.com>
References: <1170281177.260828.11580@p10g2000cwp.googlegroups.com>
   <1170300409.495615.259190@v33g2000cwv.googlegroups.com>
   <1170375168.032461.114280@h3g2000cwc.googlegroups.com>
   <LRQwh.7417$pg2.3723@bignews2.bellsouth.net>
   <1170554528.078270.129350@j27g2000cwj.googlegroups.com>
NNTP-Posting-Host: 136.181.195.45
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171042624 13741 127.0.0.1 (9 Feb 2007 17:37:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 9 Feb 2007 17:37:04 +0000 (UTC)
In-Reply-To: <1170554528.078270.129350@j27g2000cwj.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q2g2000cwa.googlegroups.com; posting-host=136.181.195.45;
   posting-account=xGfJrgwAAAARBN5650KGzSfXuS1VCsBR
Xref: g2news2.google.com rec.radio.amateur.homebrew:8991

I have a small quantity MC1350's that I could sell. How about $2.00
USD each + shipping.

Curt, K8AI

From -7088140292216295664
X-Google-Thread: 108122,772910ad849dc3cc
X-Google-Thread: fc2a5,772910ad849dc3cc
X-Google-Attributes: gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon06.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr12.news.prodigy.net.POSTED!476e347b!not-for-mail
From: "Al Lorona" <alorona@sbcglobal.net>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <1170830367.837071@newsreg.cos.agilent.com>
<45c9b1f7.864750900@news.madasafish.com>
Subject: Re: 10.9 MHz IF?
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Message-ID: <K%6zh.17106$ji1.11786@newssvr12.news.prodigy.net>
NNTP-Posting-Host: 192.25.240.232
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr12.news.prodigy.net 1171061866 ST000 192.25.240.232 (Fri, 09 Feb
2007 17:57:46 EST)
NNTP-Posting-Date: Fri, 09 Feb 2007 17:57:46 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
FKPGW^WDZRRMBQLYN[O@_WH@YR_B@EXLLBWLOOAFBATBTSUBYFWEAE[YJLYPIWKHTFCMZKVMB^[Z^DOBRV
VMOSPFHNSYXVDIE@X\BUC@GTSX@DL^GKFFHQCCE\G[JJBMYDYIJCZM@AY]GNGPJD]YNNW\GSX^GSCKHA[]
@CCB\[@LATPD\L@J\\PF]VR[QPJN
Date: Fri, 09 Feb 2007 22:57:46 GMT
Xref: g2news2.google.com rec.radio.amateur.equipment:8034
rec.radio.amateur.homebrew:8992

Thank you for your responses. These filters were definitely from the very
early 70s or maybe mid- or late 70s. The guy who sold them to me at the swap
meet mentioned that they may have come out of a Cubic or Astro rig of that
era, but he wasn't sure and I just wondered if there was anybody here who
might be sure of that.

Thanks again, you guys.

Al W6LX

From 5100018000540196027
X-Google-Thread: 108122,772910ad849dc3cc
X-Google-Thread: fc2a5,772910ad849dc3cc
X-Google-Attributes: gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!news.kjsl.com!
ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: 10.9 MHz IF?

Date: 10 Feb 2007 00:04:11 GMT
Organization: The National Capital FreeNet
Lines: 39
Message-ID: <eqj25r$kl1$1@theodyn.ncf.ca>
References: <1170830367.837071@newsreg.cos.agilent.com>
<45c9b1f7.864750900@news.madasafish.com>
<K%6zh.17106$ji1.11786@newssvr12.news.prodigy.net>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1171065851 21153 134.117.136.48 (10 Feb 2007 00:04:11 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 10 Feb 2007 00:04:11 GMT
Xref: g2news2.google.com rec.radio.amateur.equipment:8035
rec.radio.amateur.homebrew:8993

"Al Lorona" (alorona@sbcglobal.net) writes:

> Thank you for your responses. These filters were definitely from the very
> early 70s or maybe mid- or late 70s. The guy who sold them to me at the swap
> meet mentioned that they may have come out of a Cubic or Astro rig of that
> era, but he wasn't sure and I just wondered if there was anybody here who
> might be sure of that.
>
> Thanks again, you guys.
>
> Al W6LX
>

The name of the filter manufacturer that you mentioned, that did sound like the company that made the Swan filters (Cubic and Astro came later in the seventies, but my hazy memory connects them all together so I think there is a connection). I remember ads (and a quick check didn't find one) of them touting a really good filter made by that company. But I'm pretty certain it was in the 5MHz range.

What does come to mind, maybe incorrectly, was that the Swan 250, the six metre SSB rig, had a 10.7MHz IF, but I can't be bothered to check that. I can't even remember why I would think that. But I can't see them going to 10.9MHz.

I'm with the others, 10.9MHz is most likely a scanner (and I too would say Regency). And if it's not that, then it's some non-amateur piece of equipment. Not everything has to be for ham radio rigs, and I have my share of oddball crystal filters that came from somewhere but couldn't have been ham rigs.

Load the inputs and outputs down to some extent, and then use a sweep generator to get a general idea of their bandwidth. If you're looking for SSB-width filters, then they aren't useful if they were for FM receivers.

Post the information printed on the filters, and maybe someone just happens to know.

Michael VE2BVW

```
From -2576200631862563936
X-Google-Thread: 108122,772910ad849dc3cc
X-Google-Thread: fc2a5,772910ad849dc3cc
X-Google-Attributes: gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newstrans.cos.agilent.com!not-for-mail
From: "Al Lorona" <al_lorona@agilent.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: 10.9 MHz IF?
Date: Fri, 9 Feb 2007 23:18:07 -0800
Organization: None
Lines: 37
Message-ID: <1171090799.534183@newsreg.cos.agilent.com>
References: <1170830367.837071@newsreg.cos.agilent.com>
<45c9b1f7.864750900@news.madasafish.com>
<K%6zh.17106$ji1.11786@newssvr12.news.prodigy.net> <eqj25r$kl1$1@theodyn.ncf.ca>
NNTP-Posting-Host: newsreg.cos.agilent.com
X-Trace: newstrans.cos.agilent.com 1171091887 31059 130.29.134.111 (10 Feb 2007
07:18:07 GMT)
X-Complaints-To: usenet@newstrans.cos.agilent.com
NNTP-Posting-Date: Sat, 10 Feb 2007 07:18:07 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Cache-Post-Path: newsreg.cos.agilent.com!unknown@cos1nai128232.cos.agilent.com
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
Xref: g2news2.google.com rec.radio.amateur.equipment:8036
rec.radio.amateur.homebrew:8994
```

> Post the information printed on the filters, and maybe someone just
> happens to know.
>
>   Michael VE2BVW
>

Hi, Michael and others,

Ron W6ZI was kind enough to solve this mystery and respond with the
following:

"The 10.9MHz C-F Networks filters were used to replace the standard filter
in
the Swan 250. The 250 had a 10.7MHz I.F. so a bit of retuning was required.
The stock 250 filter was a 4 pole, 3KHz (more or less) B.W. while the C-F

was an 2.8KHz, 8 pole which provided a very noticable improvement. Hope this

helps."

Thanks, Ron.

Regards,

Al W6LX

```
From 5507900014187667797
X-Google-Thread: fc2a5,ebf60f6e9850389a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 10 Feb 2007 06:27:28 -0600
Date: Sat, 10 Feb 2007 12:27:27 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cobra 148GTL for 10 METER
References: <g59ns2p0je934ud0q4ipkqrbrb9rf09u78@4ax.com>
<_o2dnVG_NIydNlbYnZ2dnUVZ_oernZ2d@bright.net>
<oscns2heph5eii9ul6tnpu491p6knl1190@4ax.com>
In-Reply-To: <oscns2heph5eii9ul6tnpu491p6knl1190@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <3uednc3rIYGtJ1DYnZ2dnUVZ_sjinZ2d@bright.net>
Lines: 48
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
i4SlkDPbNnMVVosurKzmnCrD9eBtcH24G8qJGoMRub52fAlRgMtosofALnhooXK1Yy8Jd4A2jwVKoPf!
lKjQQ5DxznqfpSk/Jt9lzJY6rx2fZae3MsYXEjC3+IdUCw7FcMC2VGpKB+36N3laRaMlmTrQMKYh!
pzEw3dph3A==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8995

Yes, no problem at all!

Scott

john james wrote:

> Hmm.. ok .. *IF* I remeber correctly, CB SWR meters are good for up to
> 30MHZ. so I can use the one I already own, correct?
>
> Eddie
>
>
> On Thu, 08 Feb 2007 22:58:06 +0000, Scott <acepilot@bloomer.net>
> wrote:
>
>
>>Not sure of the mixing scheme of the cobra, so I won't comment on that
>>part of your question. Since the 10M band is higher in frequency than
>>CB, shortening the 102" whip experimentally should get your SWR
>>down...but you will need an SWR bridge to check that (or an antenna
>>analyzer such as the MFJ 259 or similar).
>>
>>Scott
>>
>>
>>john james wrote:
>>
>>
>>>I have an original Cobra 148GTL CB Radio. I know that i can modify it
>>>to operate in the 10Meter band by switching the crystal to a
>>>11.6908MHz crystal.
>>>
>>>is anybody familiar with this mod? If so, how do i determine what
>>>frequency each channel will be at? will i need to purchase a freq.
>>>countert o determine what freq. will go with what channel?
>>>
>>>Also, will my 102: whip work with 10M, or rather will it give me a
>>>close enough SWR to suffice, or will i need to purchase a new antenna?
>>>
>>>Any information or assistance would be greatly appreciated.
>>>
>>>Eddie
>>>
>>>sogregory--@--NOSPAM--.charter.net
>>>
>
>

```
From -2532089575152853028
X-Google-Thread: fc2a5,d33915a591873c51
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v33g2000cwv.googlegroups.com!not-for-
mail
From: "terry" <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3P41 Transmiting Tube Data Need
Date: 10 Feb 2007 08:57:04 -0800
Organization: http://groups.google.com
Lines: 14
Message-ID: <1171126623.973968.128780@v33g2000cwv.googlegroups.com>
References: <45c11e61_1@x-privat.org>
NNTP-Posting-Host: 142.162.157.232
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171126631 23143 127.0.0.1 (10 Feb 2007 16:57:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 10 Feb 2007 16:57:11 +0000 (UTC)
In-Reply-To: <45c11e61_1@x-privat.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v33g2000cwv.googlegroups.com; posting-host=142.162.157.232;
   posting-account=J8f3NA0AAAApayX7upsAHyq0lPJRDLXM
Xref: g2news2.google.com rec.radio.amateur.homebrew:8996

On Jan 31, 8:06 pm, "Heriberto" <lu6...@tapalquenet.com.ar> wrote:
> Hi All:
>            I try found the data of 3P41 japan tube transmiting, but no hhave
> good luck.-  Anyone have this data ? Tks in aadvance.-
>
> REgards
> Heriberto
> LU6DBU

Heriberto:
Is it a magnetron??????
Microwave generator?
Terry




From -4052717016244208977
X-Google-Thread: fc2a5,d33915a591873c51
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
From: "Heriberto" <lu6dbu@tapalquenet.com.ar>
Newsgroups: rec.radio.amateur.homebrew
References: <45c11e61_1@x-privat.org>
```

```
<1171126623.973968.128780@v33g2000cwv.googlegroups.com>
Subject: Re: 3P41 Transmiting Tube Data Need
Date: Sat, 10 Feb 2007 20:00:29 -0300
Lines: 28
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 5.00.2919.6600
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
NNTP-Posting-Host: $$6cknoaitsc1q.news.x-privat.org
Message-ID: <45ce4be4_2@x-privat.org>
Organization: X-Privat NNTP Server - http://www.x-privat.org
X-Authenticated-User: $$l1dodqu9tn$idhdv-zi5hlm-q
X-Complaints-To: abuse@x-privat.org
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news.glorb.com!x-
privat.org!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8997

Hi Terry:
            it is a transmiting tube (pentodo o tetrodo not sure) for H.F.,
with 65 w. anode disipation.- Was maked for JRC (japan Radio Corporation),
is known also by JRC 3p41/3p50.-
              Tks. again

REgards
Heriberto

"terry" <tsanford@nf.sympatico.ca> escribi� en el mensaje
news:1171126623.973968.128780@v33g2000cwv.googlegroups.com...
> On Jan 31, 8:06 pm, "Heriberto" <lu6...@tapalquenet.com.ar> wrote:
> > Hi All:
> >            I try found the data of 3P41 japan tube transmiting, but no
hhave
> > good luck.-  Anyone have this data ? Tks in aadvance.-
> >
> > REgards
> > Heriberto
> > LU6DBU
>
> Heriberto:
> Is it a magnetron??????
> Microwave generator?
> Terry
>




From 4676434882302992604
X-Google-Thread: fc2a5,c3521a388ba3ff90,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m58g2000cwm.googlegroups.com!not-for-
```

```
mail
From: benjamic@michigan.gov
Newsgroups: rec.radio.amateur.homebrew
Subject: Help with BF998 preamp
Date: 11 Feb 2007 02:38:51 -0800
Organization: http://groups.google.com
Lines: 13
Message-ID: <1171190331.533686.213340@m58g2000cwm.googlegroups.com>
NNTP-Posting-Host: 64.50.249.202
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171190336 19003 127.0.0.1 (11 Feb 2007 10:38:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 11 Feb 2007 10:38:56 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m58g2000cwm.googlegroups.com; posting-host=64.50.249.202;
   posting-account=xGfJrgwAAAARBN5650KGzSfXuS1VCsBR
Xref: g2news2.google.com rec.radio.amateur.homebrew:8998

Hello all, I'm trying to put together a 50 MHz preamp for a
transverter project I'm building and I can't seem to get much gain
out of two separate designs I've tried. I built AA3SJ's amp that's
on the front end of his transverter (http://www.qsl.net/aa3sj/Pages/
50MHz-Xverter.html)
and I even tried Hamtronics' design (http://www.hamtronics.com/pdf/
Manuals/LNK%20Preamp.pdf)

Does anyone have a proven design for a VHF preamp using BF998's or any
help? Thanks.

Curt, K8AI




From -336336635238630768
X-Google-Thread: fc2a5,c3521a388ba3ff90
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j27g2000cwj.googlegroups.com!not-for-
mail
From: skavanagh72nospam@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Help with BF998 preamp
Date: 11 Feb 2007 04:25:59 -0800
Organization: http://groups.google.com
Lines: 48
Message-ID: <1171196759.411482.326820@j27g2000cwj.googlegroups.com>
References: <1171190331.533686.213340@m58g2000cwm.googlegroups.com>
NNTP-Posting-Host: 216.208.52.138
Mime-Version: 1.0
```

Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171196765 11435 127.0.0.1 (11 Feb 2007 12:26:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 11 Feb 2007 12:26:05 +0000 (UTC)
In-Reply-To: <1171190331.533686.213340@m58g2000cwm.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j27g2000cwj.googlegroups.com; posting-host=216.208.52.138;
   posting-account=0Ys2Eg0AAADOQYhHmHwRZ2EGbJYic2GH
Xref: g2news2.google.com rec.radio.amateur.homebrew:8999

On Feb 11, 5:38 am, benja...@michigan.gov wrote:
> I can't seem to get much gain
> out of two separate designs I've tried. I built AA3SJ's amp that's
> on the front end of his transverter (http://www.qsl.net/aa3sj/Pages/50MHz-Xverter.html)

That design looks OK to me, though I haven't tried calculating the resonant frequency of the tuned circuits. Do you get nice resonant peaks in gain when varying input and output caps ? The 2 pF output coupling capacitor is intended for a very high impedance load (the 2nd BF998/mixer) so may not work for a 50 ohm load if that is what you need. I would probably try a one or two turn link on L2 for output coupling to 50 ohms.

> and I even tried Hamtronics' design (http://www.hamtronics.com/pdf/Manuals/LNK%20Preamp.pdf

Very similar design except it seems the output is untuned and very heavily loaded (by the large coupling capacitor C6), and has a 47 ohm resistor in the output for stabilization.

The BF998 has good gain past 1 GHz. For stability, it is probably necessary to design this like a microwave circuit: very short leads, use only chip capacitors for bypassing (and chip resistors, at least AA3SJ's R3 and Hamtronics' R4), double sided circuit board with full ground plane, ground the source lead of the package within 0.1" of the body of the BF998, either directlly to the ground plane or to a top-side pad which is grounded with at least two wires or eyelets or plated through holes to the ground plane, within 0.2" of the BF998.

I assume you haven't got gates 1 & 2 reversed ? (input to gate 1, 3 or 4V or so bias to gate 2)

Other things to check:
-is the gate 2 bias voltage correct (roughly 3-4 V) ?
-is the drain current on the order of 10 mA ? (that is where the BF998 noise figure is specified)
-are the inductors used exactly as specified ?(absolutely must be either toroids or in shield cans to avoid feedback, I think)
-is the amplifier oscillating ? (look for RF voltage on the output or

hold an antenna connected to a frequency counter or spectrum analyzer
up to the coils, or look to see if the supply current jumps when you
tune the input or output.)

Good luck. I'd be interested to hear what works as I've just acquired
some BF998s to play with !

73,
Steve VE3SMA

From -6793803451942210640
X-Google-Thread: fc2a5,7543881186ba5b36,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!130.81.64.211.MISMATCH!cycny01.gnilink.net!
spamkiller2.gnilink.net!gnilink.net!trndny06.POSTED!0da99462!not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Continuous Phase Modulation
Lines: 33
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <x5Mzh.1993$ov2.729@trndny06>
Date: Sun, 11 Feb 2007 21:42:53 GMT
NNTP-Posting-Host: 68.236.45.224
X-Complaints-To: abuse@verizon.net
X-Trace: trndny06 1171230173 68.236.45.224 (Sun, 11 Feb 2007 16:42:53 EST)
NNTP-Posting-Date: Sun, 11 Feb 2007 16:42:53 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:9001

Does anyone know if continuous phase modulation (CPM) of the RF carrier will work with PSK31 systems?

In most current embodiments of PSK, a raised cosine shaped pulse is applied to a balanced modulator which is driven by the RF. This has the effect of gradually lowering the amplitude of the RF envelope as the point of 180 deg phase reversal occurs . This minimizes the number of sidebands which would otherwise be generated if a discontinuous 180 deg carrier phase reversal were allowed to happen during full carrier level. It also causes the transmitted signal to have an amplitude envelope which must be preserved, otherwise spectrum spreading will occur.

The DDS chips used in a lot of new QRP designs commonly have a programmable phase-offset register which adds a constant phase offset to the RF carrier generated by the chip in very small phase steps. It seems to me that a very well-controlled, constant envelope phase modulated signal could be generated by sequencing the phase offset register through all the values in a raised-cosine pulse prior at the transitions of each transmitted symbol. This would result in a very simple, bandwidth-efficient, constant-envelope PSK31 transmitter implementation in QRP rigs that employ DDS.

Someone suggested to me that the DSP decoder systems used in most PSK31 software require an amplitude envelope in order to derive sync. However, the DSP decoder probably implements narrow-bandpass filtering prior to the detecion process, and this narrowband filtering of the constant-envelope PSK signal would probably restore the envelope anyway, so it should work.

Is there a flaw in this reasoning?

Joe
W3JDR

From -7879581927866797451
X-Google-Thread: fc2a5,7543881186ba5b36
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 11 Feb 2007 16:03:48 -0600
Date: Sun, 11 Feb 2007 14:04:01 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Continuous Phase Modulation
References: <x5Mzh.1993$ov2.729@trndny06>
In-Reply-To: <x5Mzh.1993$ov2.729@trndny06>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <DY6dnaffgYlZD1LYnZ2dnUVZ_oupnZ2d@web-ster.com>
Lines: 47
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-fxHBQuBkwTbIJKWfdfUizvyuLLbPx5Zn5gYbzKPUBzMX0hAQ24eFV2Ksln1bYMdUq+aPGuqwkqwFJig!7XsbqMm4dttSDduAB+Wlvs12RdSqAPgay49kaG2Y8Y3PEbCn4/fpvDNvTsUfQ5oUxNg7dHJK1Vs9!uK+i8KIxjw/f79+r
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9002

W3JDR wrote:

> Does anyone know if continuous phase modulation (CPM) of the RF carrier will work with PSK31 systems?
>
> In most current embodiments of PSK, a raised cosine shaped pulse is applied to a balanced modulator which is driven by the RF. This has the effect of gradually lowering the amplitude of the RF envelope as the point of 180 deg phase reversal occurs . This minimizes the number of sidebands which would otherwise be generated if a discontinuous 180 deg carrier phase reversal were allowed to happen during full carrier level. It also causes the transmitted signal to have an amplitude envelope which must be preserved, otherwise spectrum spreading will occur.
>
> The DDS chips used in a lot of new QRP designs commonly have a programmable phase-offset register which adds a constant phase offset to the RF carrier generated by the chip in very small phase steps. It seems to me that a very well-controlled, constant envelope phase modulated signal could be generated by sequencing the phase offset register through all the values in a raised-cosine pulse prior at the transitions of each transmitted symbol. This would result in a very simple, bandwidth-efficient, constant-envelope PSK31 transmitter implementation in QRP rigs that employ DDS.
>
> Someone suggested to me that the DSP decoder systems used in most PSK31 software require an amplitude envelope in order to derive sync. However, the DSP decoder probably implements narrow-bandpass filtering prior to the detecion process, and this narrowband filtering of the constant-envelope PSK signal would probably restore the envelope anyway, so it should work.
>
> Is there a flaw in this reasoning?
>

No flaw in the reasoning, but some ambiguity in the assumptions. This is something that you'd have to try and see how it works.

On the plus side, the classical method of deriving bit synchronization in PSK isn't sensitive to the amplitude of the signal; if that is what was used in your system then you're home free.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

From -5403682550246242290
X-Google-Thread: fc2a5,7543881186ba5b36
X-Google-Attributes: gidfc2a5,public

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Continuous Phase Modulation
From: "Dan Suthern" <Dsuth@somewhere.net>
Reply-to: Dsuth@somewhere.net
References: <x5Mzh.1993$ov2.729@trndny06> <DY6dnaffgYlZD1LYnZ2dnUVZ_oupnZ2d@webster.com>
Organization: DTS LLC
Date: Sun, 11 Feb 2007 23:11:12 GMT
X-Newsreader: News Rover 11.3.0 (http://www.NewsRover.com)
Lines: 14
Message-ID: <45cfa0b2$0$7468$9a6e19ea@news.newshosting.com>
X-Complaints-To: abuse@newshosting.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:9003
```

Yes, there IS a slight error in the rational.

If you consider the phase constellation, a constant envelope implementation of PSK will require more bandwidth. The paths from one constellation point to another are more direct with the classical non-constant envelope approaches. To keep the envelope constant, the constellation trajectory must stay on the unit circle (and sometimes even pass thru other possible symbol states). Since the constellation trajectory must go a larger distance in the same period of time (gotta get there in one symbol period!), more bandwidth is required. Things have gotta be able to happen faster in the I and Q channels.

Dan

```
From -2531497536766948290
X-Google-Thread: fc2a5,1d17ae6c01301dcf,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q2g2000cwa.googlegroups.com!not-for-mail
From: "bigorangebus" <bigorangebus@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: navtex receiver/AM receiver sensitivity
Date: 12 Feb 2007 10:19:34 -0800
Organization: http://groups.google.com
Lines: 40
Message-ID: <1171304374.688481.68040@q2g2000cwa.googlegroups.com>
NNTP-Posting-Host: 88.111.95.249
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171304381 10092 127.0.0.1 (12 Feb 2007 18:19:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 12 Feb 2007 18:19:41 +0000 (UTC)
```

User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.8.0.9)
Gecko/20061206 Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q2g2000cwa.googlegroups.com; posting-host=88.111.95.249;
   posting-account=GgpxRw0AAAAn_Rwf5JEWRtzcrHns9Fjj
Xref: g2news2.google.com rec.radio.amateur.homebrew:9004

Does anyone have any tips on increasing sensitivity for a medium wave receiver trying to distinguish navtex 170Hz phase shifts on a low power carrier at 518kHz?!

Ive been on and off trying to do this project for my boat for a year. I say off and on, its become most frustrating! I can't use a loop antenna because its just too big and too directional for use on a boat. So I'm currently using a Nasa Marine active aerial (it is just a small plate attached to a standard fet common source driver circuit). I have that going down some coax through capacitive impedance transformer and inductor creating some extra front end selectivity, to the input of a 612 mixer, getting 6kHz IF (after being mixed with a lo). I'm driving the 612 differentially, as its a slight improvement over single ended. From here Ive tried using several op amp filter circuits, and they all perform adequately.

Heres my problem, the receiver just picks up too much noise. Everything interferes with it, even the scan on my oscilloscope. Even without this, taking the aerial out of the room, the actual noise in the system is too high to pick up anything but the strongest navtex signals (which are decoded). Of course AM radio broadcasts are way above the background noise, and navtex signals are much lower power. And AM radio has the help of our ears to tune out the noise.

It works better when closer to the transmitter of course, but the navtex spec says you should be able to pick up stations 400 miles away, and i'm only just decoding the local one 100 miles away.

So my question is, does anyone know of any special techniques on the RF side that can improve my noise handling/signal integrity? (my expensive sony worldband receiver seems pretty good at it on SSB). And....does anyone know how the upper market receivers get such a good signal? My receiver just samples the input frequency (as does the Nasa low end I think), so is very susceptible to any interference.

Grateful and very interested to hear views on this.

Many Thanks
Andy

From -678719495098162067
X-Google-Thread: fc2a5,61f995ce17ef3736,start
X-Google-Attributes: gidfc2a5,public

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h3g2000cwc.googlegroups.com!not-for-
mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: CW Bands
Date: 12 Feb 2007 10:36:49 -0800
Organization: http://groups.google.com
Lines: 7
Message-ID: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
NNTP-Posting-Host: 75.117.147.70
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171305414 12782 127.0.0.1 (12 Feb 2007 18:36:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 12 Feb 2007 18:36:54 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h3g2000cwc.googlegroups.com; posting-host=75.117.147.70;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:9005
```

Now that code has been dropped from the license requirement, what will
happen to the CW frequencies? Will people still be able to use Morse
Code on them?

Ralph Glatt

```
From -3636889655556305712
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!homer!news.glorb.com!news-
spur1.glorb.com!news.glorb.com!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW Bands
Date: 12 Feb 2007 19:18:01 GMT
Organization: The National Capital FreeNet
Lines: 16
Message-ID: <eqqeh9$du0$1@theodyn.ncf.ca>
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1171307881 14272 134.117.136.48 (12 Feb 2007 19:18:01 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 12 Feb 2007 19:18:01 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:9006
```

"julian814" (julian814@hotmail.com) writes:
> Now that code has been dropped from the license requirement, what will
> happen to the CW frequencies? Will people still be able to use Morse
> Code on them?
>
>
> Ralph Glatt
>

This is not a question related to building amateur radio equipment.

It belongs elsewhere, such as rec.radio.amateur.misc or
rec.radio.amateur.policy

Michael VE2BVW

```
From -2752935868319011205
X-Google-Thread: fc2a5,1d17ae6c01301dcf
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 12 Feb 2007 14:43:02 -0600
Date: Mon, 12 Feb 2007 12:43:17 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: navtex receiver/AM receiver sensitivity
References: <1171304374.688481.68040@q2g2000cwa.googlegroups.com>
In-Reply-To: <1171304374.688481.68040@q2g2000cwa.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Z8CdnTJJNJ_LTE3YnZ2dnUVZ_vWtnZ2d@web-ster.com>
Lines: 60
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-OPacdrfvWMr8vG2/i8mmRSSQwCOmDPeVqmK+YZ/
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lssYdcfxQBcEoUh9XfDah0J8rwdUeSkLHeKXY51vTf+EuCAZSr0ZagkElAu3vcNdOFCIKMW5NI9e!
3qrg+dVctS1WTt8e
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9007
```

bigorangebus wrote:

> Does anyone have any tips on increasing sensitivity for a medium wave receiver trying to distinguish navtex 170Hz phase shifts on a low power carrier at 518kHz?!
>
> Ive been on and off trying to do this project for my boat for a year. I say off and on, its become most frustrating! I can't use a loop antenna because its just too big and too directional for use on a boat. So I'm currently using a Nasa Marine active aerial (it is just a small plate attached to a standard fet common source driver circuit). I have that going down some coax through capacitive impedance transformer and inductor creating some extra front end selectivity, to the input of a 612 mixer, getting 6kHz IF (after being mixed with a lo). I'm driving the 612 differentially, as its a slight improvement over single ended. From here Ive tried using several op amp filter circuits, and they all perform adequately.
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>
> Grateful and very interested to hear views on this.
>

I've already answered this on sci.electronics.design. Please get onto Wikipedia and read their article on "cross posting". They'll tell you about "multiple posting" in there, which is what you've done.

Cross posting is often appropriate, when you have an item of interest to two or three groups.

I can't think of a case where multiple posting is appropriate, and it is mildly but generally frowned upon, to the extent where normally mild-mannered newsgroup denizens will suddenly appoint themselves as net cops and write posts like this one.

--

Tim Wescott

Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

From -1816450730168049549
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!out03a.usenetserver.com!news.usenetserver.com!in04.usenetserver.com!news.usenetserver.com!in03.usenetserver.com!news.usenetserver.com!hwmnpeer01.phx!news.highwinds-media.com!hw-filter.phx!newsfe06.phx.POSTED!53ab2750!not-for-mail
From: "Caveat Lector" <CL@nowhere.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
Subject: Re: CW Bands
Lines: 30
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <Xr5Ah.8062$YK6.526@newsfe06.phx>
Date: Mon, 12 Feb 2007 14:00:28 -0800
NNTP-Posting-Host: 72.197.12.245
X-Complaints-To: admin@cox.net
X-Trace: newsfe06.phx 1171317623 72.197.12.245 (Mon, 12 Feb 2007 15:00:23 MST)
NNTP-Posting-Date: Mon, 12 Feb 2007 15:00:23 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:9008

"julian814" <julian814@hotmail.com> wrote in message
news:1171305409.403526.161620@h3g2000cwc.googlegroups.com...
> Now that code has been dropped from the license requirement, what will
> happen to the CW frequencies? Will people still be able to use Morse
> Code on them?
>
>
> Ralph Glatt
>

The use of CW on the bands has nothing to do with testing requirements.

CW will live undoubtedly under the category of CW, RTTY/Data

And did you know that CW can be legally used on the "Phone Bands" ?

```
Example from ARRL URL:
http://www.arrl.org/FandES/field/regulations/allocate.html

  General class:
    14.025-14.150 MHz: CW, RTTY/Data
    14.225-14.350 MHz: CW, Phone, Image
  Advanced class:
    14.025-14.150 MHz: CW, RTTY/Data
    14.175-14.350 MHz: CW, Phone, Image
  Amateur Extra class:
    14.000-14.150 MHz: CW, RTTY/Data
    14.150-14.350 MHz: CW, Phone, Image




From 8559029839683461318
X-Google-Thread: fc2a5,1d17ae6c01301dcf
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m58g2000cwm.googlegroups.com!not-for-
mail
From: "bigorangebus" <bigorangebus@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: navtex receiver/AM receiver sensitivity
Date: 12 Feb 2007 14:21:31 -0800
Organization: http://groups.google.com
Lines: 65
Message-ID: <1171318891.330774.286790@m58g2000cwm.googlegroups.com>
References: <1171304374.688481.68040@q2g2000cwa.googlegroups.com>
   <Z8CdnTJJNJ_LTE3YnZ2dnUVZ_vWtnZ2d@web-ster.com>
NNTP-Posting-Host: 88.111.95.249
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171318909 9831 127.0.0.1 (12 Feb 2007 22:21:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 12 Feb 2007 22:21:49 +0000 (UTC)
In-Reply-To: <Z8CdnTJJNJ_LTE3YnZ2dnUVZ_vWtnZ2d@web-ster.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.8.0.9)
Gecko/20061206 Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m58g2000cwm.googlegroups.com; posting-host=88.111.95.249;
   posting-account=GgpxRw0AAAAn_Rwf5JEWRtzcrHns9Fjj
Xref: g2news2.google.com rec.radio.amateur.homebrew:9009

On 12 Feb, 20:43, Tim Wescott <t...@seemywebsite.com> wrote:
> bigorangebus wrote:
> > Does anyone have any tips on increasing sensitivity for a medium wave
> > receiver trying to distinguish navtex 170Hz phase shifts on a low
> > power carrier at 518kHz?!
>
> > Ive been on and off trying to do this project for my boat for a year.
```

> > I say off and on, its become most frustrating! I can't use a loop
> > antenna because its just too big and too directional for use on a
> > boat. So I'm currently using a Nasa Marine active aerial (it is just
> > a small plate attached to a standard fet common source driver
> > circuit). I have that going down some coax through capacitive
> > impedance transformer and inductor creating some extra front end
> > selectivity, to the input of a 612 mixer, getting 6kHz IF (after being
> > mixed with a lo). I'm driving the 612 differentially, as its a slight
> > improvement over single ended. From here Ive tried using several op
> > amp filter circuits, and they all perform adequately.
>
> > Heres my problem, the receiver just picks up too much noise.
> > Everything interferes with it, even the scan on my oscilloscope. Even
> > without this, taking the aerial out of the room, the actual noise in
> > the system is too high to pick up anything but the strongest navtex
> > signals (which are decoded). Of course AM radio broadcasts are way
> > above the background noise, and navtex signals are much lower power.
> > And AM radio has the help of our ears to tune out the noise.
>
> > It works better when closer to the transmitter of course, but the
> > navtex spec says you should be able to pick up stations 400 miles
> > away, and i'm only just decoding the local one 100 miles away.
>
> > So my question is, does anyone know of any special techniques on the
> > RF side that can improve my noise handling/signal integrity? (my
> > expensive sony worldband receiver seems pretty good at it on SSB).
> > And....does anyone know how the upper market receivers get such a good
> > signal? My receiver just samples the input frequency (as does the
> > Nasa low end I think), so is very susceptible to any interference.
>
> > Grateful and very interested to hear views on this.
>
> I've already answered this on sci.electronics.design. Please get onto
> Wikipedia and read their article on "cross posting". They'll tell you
> about "multiple posting" in there, which is what you've done.
>
> Cross posting is often appropriate, when you have an item of interest to
> two or three groups.
>
> I can't think of a case where multiple posting is appropriate, and it is
> mildly but generally frowned upon, to the extent where normally
> mild-mannered newsgroup denizens will suddenly appoint themselves as net
> cops and write posts like this one.
>
> --
>
> Tim Wescott
> Wescott Design Serviceshttp://www.wescottdesign.com
>
> Posting from Google? Seehttp://cfaj.freeshell.org/google/
>
> "Applied Control Theory for Embedded Systems" came out in April.
> See details athttp://www.wescottdesign.com/actfes/actfes.html

I assumed that not all radio amateurs would read electronics, and vice versa, sorry if this is seen as inapropriate to post in the two groups

```
From -3942143244272126025
X-Google-Thread: fc2a5,bfd5cef3edcd9bbd,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a75g2000cwd.googlegroups.com!not-for-
mail
From: "KE5MBX" <nelson.blaha@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: killing cars with high RF?
Date: 12 Feb 2007 15:17:50 -0800
Organization: http://groups.google.com
Lines: 15
Message-ID: <1171322270.786928.164360@a75g2000cwd.googlegroups.com>
NNTP-Posting-Host: 129.107.34.51
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171322277 17934 127.0.0.1 (12 Feb 2007 23:17:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 12 Feb 2007 23:17:57 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a75g2000cwd.googlegroups.com; posting-host=129.107.34.51;
   posting-account=93KYCA0AAACtGswkvBXkcUk-KwSZHx_I
Xref: g2news2.google.com rec.radio.amateur.homebrew:9010
```

Hi,
What's all this business I hear people talking about blasting people's car stereos or killing cars altogether with high-power RF? I run 2m, 10m, and 11m in my jeep and I'd like to sort out the fact from the legend and find out what kind of power I can use without risking damage to my jeep or cars around me. At what power level is front-end overload to a nearby radio likely? At what power level is damage likely, and to what componets?

I am currently using only 50 watts on a 5/8 wave (2m), 25w on a 1/4 wave (10m), legal 4w on a 1/4 wave (11m)

Thanks,
Nelson KE5MBX

```
From 6779435085110232587
X-Google-Thread: fc2a5,c3521a388ba3ff90
```

X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h3g2000cwc.googlegroups.com!not-for-mail
From: benjamic@michigan.gov
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Help with BF998 preamp
Date: 12 Feb 2007 16:46:30 -0800
Organization: http://groups.google.com
Lines: 27
Message-ID: <1171327590.793653.93470@h3g2000cwc.googlegroups.com>
References: <1171190331.533686.213340@m58g2000cwm.googlegroups.com>
   <9ccus2p33vqcfuu4sicsu5h0vh4int12pk@4ax.com>
NNTP-Posting-Host: 64.50.249.202
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171327605 4047 127.0.0.1 (13 Feb 2007 00:46:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 13 Feb 2007 00:46:45 +0000 (UTC)
In-Reply-To: <9ccus2p33vqcfuu4sicsu5h0vh4int12pk@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1) Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h3g2000cwc.googlegroups.com; posting-host=64.50.249.202;
   posting-account=xGfJrgwAAAARBN5650KGzSfXuS1VCsBR
Xref: g2news2.google.com rec.radio.amateur.homebrew:9011

Thanks for the help. Well, I can see now on the spectrum analyzer that it's oscillating. I also found that the input wasn't tuned right. I now get around 20 dB or so of gain but I can't seem to get rid of the oscillations. I put a slug tuned inductor (.3uH 7-1/2 turns) on the output in place of the toroidal inductor (9t on a T30-6) but tuning it doesn't do anything.

In this version of the Hamtronics amp, I'm using 1206 size R's and C's and the BF998 is a SOT style package. Everything is close to the device. I tried putting a shield made of sheet brass straddling the G1 lead, going across the width of the board, I tried changing the R on the drain lead and I put a SMT ferrite bead on the drain lead but it's still taking off. I built this amp on a single sided board - could that be my problem? Should I have built this on a double-sided board with vias?

In the meantime, I'll try to build one on a double sided board and drill some holes and wire the grounds to the bottom side.

Thanks much for the help. If I get it working, I'll post some pics and a schematic.

Curt, K8AI

```
From -6484816998052022479
X-Google-Thread: fc2a5,1d17ae6c01301dcf
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 12 Feb 2007 19:04:23 -0600
Date: Mon, 12 Feb 2007 17:04:39 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: navtex receiver/AM receiver sensitivity
References: <1171304374.688481.68040@q2g2000cwa.googlegroups.com>
<Z8CdnTJJNJ_LTE3YnZ2dnUVZ_vWtnZ2d@web-ster.com>
<1171318891.330774.286790@m58g2000cwm.googlegroups.com>
In-Reply-To: <1171318891.330774.286790@m58g2000cwm.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <SYadnU83ucYFk0zYnZ2dnUVZ_oannZ2d@web-ster.com>
Lines: 91
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-zrDbthT+zVGgNf7zEFO8t+9k8oylLRqhP+stdRVxk7eS1bfgLt9P/
sdctp6Iy62G9smXwhuDDRF2GD7!a+92Rx0oEBDJC5+T9CPinXoUq3zvKQZ8Y6q1r09HoJpR42u/
MczlSzoMiXADgCi0xTvPvqm5GRSl!UNCGDdGZT6wzPmbn
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9012

bigorangebus wrote:

> On 12 Feb, 20:43, Tim Wescott <t...@seemywebsite.com> wrote:
>
>>bigorangebus wrote:
>>
>>>Does anyone have any tips on increasing sensitivity for a medium wave
>>>receiver trying to distinguish navtex 170Hz phase shifts on a low
>>>power carrier at 518kHz?!
>>
>>>Ive been on and off trying to do this project for my boat for a year.
>>>I say off and on, its become most frustrating!  I can't use a loop
>>>antenna because its just too big and too directional for use on a
>>>boat.  So I'm currently using a Nasa Marine active aerial (it is just
```

>>>a small plate attached to a standard fet common source driver
>>>circuit). I have that going down some coax through capacitive
>>>impedance transformer and inductor creating some extra front end
>>>selectivity, to the input of a 612 mixer, getting 6kHz IF (after being
>>>mixed with a lo). I'm driving the 612 differentially, as its a slight
>>>improvement over single ended. From here Ive tried using several op
>>>amp filter circuits, and they all perform adequately.
>>
>>>Heres my problem, the receiver just picks up too much noise.
>>>Everything interferes with it, even the scan on my oscilloscope. Even
>>>without this, taking the aerial out of the room, the actual noise in
>>>the system is too high to pick up anything but the strongest navtex
>>>signals (which are decoded). Of course AM radio broadcasts are way
>>>above the background noise, and navtex signals are much lower power.
>>>And AM radio has the help of our ears to tune out the noise.
>>
>>>It works better when closer to the transmitter of course, but the
>>>navtex spec says you should be able to pick up stations 400 miles
>>>away, and i'm only just decoding the local one 100 miles away.
>>
>>>So my question is, does anyone know of any special techniques on the
>>>RF side that can improve my noise handling/signal integrity? (my
>>>expensive sony worldband receiver seems pretty good at it on SSB).
>>>And....does anyone know how the upper market receivers get such a good
>>>signal? My receiver just samples the input frequency (as does the
>>>Nasa low end I think), so is very susceptible to any interference.
>>
>>>Grateful and very interested to hear views on this.
>>
>>I've already answered this on sci.electronics.design. Please get onto
>>Wikipedia and read their article on "cross posting". They'll tell you
>>about "multiple posting" in there, which is what you've done.
>>
>>Cross posting is often appropriate, when you have an item of interest to
>>two or three groups.
>>
>>I can't think of a case where multiple posting is appropriate, and it is
>>mildly but generally frowned upon, to the extent where normally
>>mild-mannered newsgroup denizens will suddenly appoint themselves as net
>>cops and write posts like this one.
>>
>>--
>>
>>Tim Wescott
>>Wescott Design Serviceshttp://www.wescottdesign.com
>>
>>Posting from Google? Seehttp://cfaj.freeshell.org/google/
>>
>>"Applied Control Theory for Embedded Systems" came out in April.
>>See details athttp://www.wescottdesign.com/actfes/actfes.html
>
>
>

> I assumed that not all radio amateurs would read electronics, and vice
> versa, sorry if this is seen as inapropriate to post in the two groups
>

Posting the same message on more than one group is perfectly fine. It's the way you do it. What's inappropriate is to post the same message to more than one group _separately_. Even with Google Groups you can cross-post, which puts the same message on multiple groups, but with the message tied together so that all groups get all the replies. This gains you considerable synergy, and keeps folks who are on both groups from answering the same things twice.

You should be able to do a web search to figure out how to cross-post from Google -- check the link in my sig line, it may even be in that FAQ.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

From 9087918647149185550
X-Google-Thread: fc2a5,bfd5cef3edcd9bbd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!not-for-mail
From: Dr. Anton T. Squeegee <SpammersBlow@dev.null>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: killing cars with high RF?
Date: Mon, 12 Feb 2007 22:26:34 -0800
Message-ID: <MPG.203af9f8a373ccf598972b@192.168.42.197>
References: <1171322270.786928.164360@a75g2000cwd.googlegroups.com>
Organization: Blue Feather Technologies
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-15"
Content-Transfer-Encoding: 7bit
X-Newsreader: MicroPlanet Gravity v2.60
Cache-Post-Path: gutenberg.bluefeathertech.com!unknown@seleth.bluefeathertech.com
X-Cache: nntpcache 3.0.2 (see http://www.nntpcache.com/)
Cache-Post-Path: bubbleator.drizzle.com!unknown@gutenberg.bluefeathertech.com
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
Lines: 24
X-Complaints-To: abuse@csolutions.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:9013

In article <1171322270.786928.164360@a75g2000cwd.googlegroups.com>, nelson.blaha@gmail.com (known to some as KE5MBX) scribed...

> Hi,
> What's all this business I hear people talking about blasting people's
> car stereos or killing cars altogether with high-power RF? I run 2m,
> 10m, and 11m in my jeep and I'd like to sort out the fact from the
> legend and find out what kind of power I can use without risking
> damage to my jeep or cars around me. At what power level is front-end
> overload to a nearby radio likely? At what power level is damage
> likely, and to what componets?

Some research with the Radio Amateur's Handbook, notably the sections on field strength and RFI, coupled with what you should already have learned during your license course study, should provide all the answers you need.

Happy hunting.

--
Dr. Anton T. Squeegee, Director, Dutch Surrealist Plumbing Institute
(Known to some as Bruce Lane, KC7GR)
http://www.bluefeathertech.com -- kyrrin a/t bluefeathertech d-o=t calm
"Salvadore Dali's computer has surreal ports..."

```
From -496124346111649970
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.gwi.net!news.gwi.net.POSTED!
not-for-mail
NNTP-Posting-Date: Tue, 13 Feb 2007 05:01:12 -0600
From: "gkb" <gkbrown@gwi.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
<Xr5Ah.8062$YK6.526@newsfe06.phx>
Subject: Re: CW Bands
Date: Tue, 13 Feb 2007 06:01:02 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Message-ID: <mq2dnQivnfDlB0zYnZ2dnUVZ_uOmnZ2d@gwi.net>
Lines: 39
NNTP-Posting-Host: 216.195.146.183
X-Trace: sv3-F7Jy/S/
hmfT6Rmb2o8ATANHjky3UF9am0JJEDXmZ3U8jR4dyD1oFvXfY3dXtkU69bxjpaKvqaPLwnrc!
8+g8nIMlsKe8vFIJ2Hx+Zd/g+GUlhyeIsfrXZk6Ei+mMZxKCAmfZ+rZ5oHHOby507lF3oKWUe/fO!xrjV
X-Complaints-To: abuse@gwi.net
X-DMCA-Complaints-To: abuse@gwi.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

```
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9014

And also two meters.......

--
Regards,
Gary...
"Caveat Lector" <CL@nowhere.com> wrote in message
news:Xr5Ah.8062$YK6.526@newsfe06.phx...
>
> "julian814" <julian814@hotmail.com> wrote in message
> news:1171305409.403526.161620@h3g2000cwc.googlegroups.com...
> > Now that code has been dropped from the license requirement, what will
> > happen to the CW frequencies? Will people still be able to use Morse
> > Code on them?
> >
> >
> > Ralph Glatt
> >
> The use of CW on the bands has nothing to do with testing requirements.
>
> CW will live undoubtedly under the category of CW, RTTY/Data
>
> And did you know that CW can be legally used on the "Phone Bands" ?
>
> Example from ARRL URL:
> http://www.arrl.org/FandES/field/regulations/allocate.html
>
>   General class:
>     14.025-14.150 MHz: CW, RTTY/Data
>     14.225-14.350 MHz: CW, Phone, Image
>   Advanced class:
>     14.025-14.150 MHz: CW, RTTY/Data
>     14.175-14.350 MHz: CW, Phone, Image
>   Amateur Extra class:
>     14.000-14.150 MHz: CW, RTTY/Data
>     14.150-14.350 MHz: CW, Phone, Image
>
>




From -5216521016808718595
X-Google-Thread: fc2a5,8425b2cad2e3671c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 13 Feb 2007 08:50:53 -0600
```

Message-ID: <Gue16yPL+c0FFA8D@ifwtech.co.uk>
Date: Tue, 13 Feb 2007 14:47:39 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: When is a hybrid not a hybrid?
References: <Jxv0GDRFELwFFAt9@ifwtech.co.uk>
 <AT4wh.23898$yC5.10103@newssvr27.news.prodigy.net>
 <1170374395.838360.237420@j27g2000cwj.googlegroups.com>
 <45c30319$0$8724$ed2619ec@ptn-nntp-reader02.plus.net>
 <1170447432.967066.92590@p10g2000cwp.googlegroups.com>
 <1170484036.926512.200460@q2g2000cwa.googlegroups.com>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<5mwkzTBRO5sETFKkGhyHHc+YXH>)
Lines: 32
NNTP-Posting-Host: 82.152.97.248
X-Trace: sv3-8IqaoJE67o964J2jhP/
F38FTJeBpsMVqATA6LSEQYkiLItFP9hBp6s0aftX0I2IpXBEGEHIhfdZ3bHo!
B9L1tBC5cIBSfAgL2ZgXOQCpvi+HmMMT/cb8K8UkFU8MGnfb1IGB11QHPcN2AFz//Fjk/cx8Zg==
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9015

Thanks for all the interesting replies - particularly Len's long historical narrative - and please accept my apologies for not responding immediately. The magazine article took a different course from the one that I'd anticipated, and thus took much longer to write.

After all the research and reminiscence, though, we still aren't much closer to understanding why some old-time telephone engineer named this circuit a "hybrid" . We can only speculate that, before finding his true vocation with Ma Bell, he had failed both English and Genetics.

In the end it seemed more important to concentrate on the defining characteristics of a modern "RF hybrid", which are coupling between some of its ports (usually equal power division), and at the same time, isolation between other ports. Even that is more of a loose consensus than a firm definition, of course.

Anyhow, the article eventually started with a fairly detailed description of the telephone hybrid (which also explains why a hybrid can sometimes be called a bridge instead) and then wandered onward to identify a few RF hybrids and describe some useful applications of RF hybrids; by which point, I had used up my two pages.

Thanks again to everyone who contributed - it certainly helped to straighten out my thinking on what had originally seemed such an innocent little question.

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

```
From 2453941877795407089
X-Google-Thread: fc2a5,87fa50249afb23ed,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v45g2000cwv.googlegroups.com!not-for-
mail
From: mcclements@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Simple wideband audio amplifier circuit?
Date: 13 Feb 2007 08:14:40 -0800
Organization: http://groups.google.com
Lines: 12
Message-ID: <1171383280.535643.3860@v45g2000cwv.googlegroups.com>
NNTP-Posting-Host: 129.42.208.182
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171383286 12631 127.0.0.1 (13 Feb 2007 16:14:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 13 Feb 2007 16:14:46 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.9)
Gecko/20061206 Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v45g2000cwv.googlegroups.com; posting-host=129.42.208.182;
   posting-account=aQ5lsA0AAACQTpNNf0BGzrIPNr8HxMv_
Xref: g2news2.google.com rec.radio.amateur.homebrew:9016
```

Hello,

I have been looking around the web for a complete kit for an audio amplifier, for a circuit that I am building that needs to have a wide, flat as possible frequency response (0Hz - 100Khz). Need to be able to bring 400mV up to line level. I have seen several kits based on a LM386, but I can't find any specs that show that circuit is reliable beyond 20hz - 20Khz. I am a beginner, so keep that in mind when responding.

-Scott, WU2X

```
From 9189685703662996662
X-Google-Thread: fc2a5,87fa50249afb23ed
```

X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Simple wideband audio amplifier circuit?
Date: 13 Feb 2007 17:36:54 GMT
Organization: The National Capital FreeNet
Lines: 22
Message-ID: <eqssvm$nnn$1@theodyn.ncf.ca>
References: <1171383280.535643.3860@v45g2000cwv.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1171388214 24311 134.117.136.48 (13 Feb 2007 17:36:54 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 13 Feb 2007 17:36:54 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:9017

(mcclements@gmail.com) writes:
> Hello,
>
> I have been looking around the web for a complete kit for an audio
> amplifier, for a circuit that I am building that needs to have a wide,
> flat as possible frequency response (0Hz - 100Khz). Need to be able to
> bring 400mV up to line level. I have seen several kits based on a
> LM386, but I can't find any specs that show that circuit is reliable
> beyond 20hz - 20Khz. I am a beginner, so keep that in mind when
> responding.
>
> -Scott, WU2X
>
But you may be looking for the wrong thing. That's not an audio amplifier,
that's a wideband amplifier. A good op-amp is likely going to be what
you want, because line level is no more than a volt (if even that), so
a gain of about 3 is going to be enough. Of course, if you are driving
something out of the ordinary, that may require something more.

Micahel VE2BVW

From 6422551631830779533
X-Google-Thread: fcc6e,f050d19442caec27
X-Google-Thread: 11480d,f050d19442caec27
X-Google-Thread: 108122,a2fa3cbea06513a2,start
X-Google-Thread: fc2a5,a2fa3cbea06513a2,start
X-Google-Attributes: gidfcc6e,gid11480d,gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!novia!novia!sequencer.newscene.com!not-for-mail

From: "Paul W. Schleck, K3FU" <pschleck@novia.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: 3rd RFD: rec.radio.amateur.moderated moderated (LAST CALL FOR COMMENTS)
Followup-To: news.groups.proposals
Date: 13 Feb 2007 12:09:02 -0600
Organization: Novia Internetworking, http://www.novia.net/
Lines: 22
Message-ID: <45d1fe5c$0$37578$540ea2cf@novia.net>
References: <nan.20070110144508$401c@killfile.org>
<nan.20070125162526$4ac9@killfile.org> <45be9f15$0$170$540ea2cf@novia.net>
User-Agent: nn/6.7.3
Xref: g2news2.google.com rec.radio.amateur.antenna:25229 rec.radio.amateur.dx:2784
rec.radio.amateur.equipment:8046 rec.radio.amateur.homebrew:9018

The following was just posted to Usenet by the news.announce.newgroups
moderator on behalf of the Big-8 Management Board:

http://www.big-8.org/dokuwiki/doku.php?id=nan:2007-02-13-rec.radio.amateur.moderated-lcc

This is a Request for Discussion (RFD) and Last Call for Comments (LCC)
to create a new moderated discussion newsgroup for amateur radio on
Usenet. It has been relayed to rec.radio.amateur.antenna,
rec.radio.amateur.dx, rec.radio.amateur.equipment, and
rec.radio.amateur.homebrew, as announced in the RFD/LCC. Please
consider contributing your opinions regarding this newsgroup to
news.groups.proposals, where followups to this message have been set.

--
73, Paul W. Schleck, K3FU
pschleck@novia.net
http://www.novia.net/~pschleck/
Finger pschleck@novia.net for PGP Public Key

From -616376282418387076
X-Google-Thread: fc2a5,87fa50249afb23ed
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v45g2000cwv.googlegroups.com!not-for-mail
From: mcclements@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Simple wideband audio amplifier circuit?
Date: 13 Feb 2007 10:29:23 -0800
Organization: http://groups.google.com
Lines: 14

```
Message-ID: <1171391363.636895.49620@v45g2000cwv.googlegroups.com>
References: <1171383280.535643.3860@v45g2000cwv.googlegroups.com>
   <eqssvm$nnn$1@theodyn.ncf.ca>
NNTP-Posting-Host: 129.42.208.182
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171391382 660 127.0.0.1 (13 Feb 2007 18:29:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 13 Feb 2007 18:29:42 +0000 (UTC)
In-Reply-To: <eqssvm$nnn$1@theodyn.ncf.ca>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.9)
Gecko/20061206 Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v45g2000cwv.googlegroups.com; posting-host=129.42.208.182;
   posting-account=aQ5lsA0AAACQTpNNf0BGzrIPNr8HxMv_
Xref: g2news2.google.com rec.radio.amateur.homebrew:9019

This will feed a computer soundcard running at a 192Khz sampling rate
(unbalanced line level in).  -Scott

On Feb 13, 12:36 pm, e...@FreeNet.Carleton.CA (Michael Black) wrote:

> But you may be looking for the wrong thing.  That's not an audio amplifier,
> that's a wideband amplifier.  A good op-amp is likely going to be what
> you want, because line level is no more than a volt (if even that), so
> a gain of about 3 is going to be enough.  Of course, if you are driving
> something out of the ordinary, that may require something more.
>
>   Micahel  VE2BVW




From -7290944698227373119
X-Google-Thread: fc2a5,1d17ae6c01301dcf
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!v33g2000cwv.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: navtex receiver/AM receiver sensitivity
Date: 13 Feb 2007 10:33:19 -0800
Organization: http://groups.google.com
Lines: 82
Message-ID: <1171391599.482840.319130@v33g2000cwv.googlegroups.com>
References: <1171304374.688481.68040@q2g2000cwa.googlegroups.com>
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Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1171391605 1453 127.0.0.1 (13 Feb 2007 18:33:25 GMT)
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```
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NNTP-Posting-Date: Tue, 13 Feb 2007 18:33:25 +0000 (UTC)
In-Reply-To: <1171304374.688481.68040@q2g2000cwa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-tb03.proxy.aol.com[CFC8708C] (Prism/1.1.9), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: v33g2000cwv.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:9020

On Feb 12, 10:19=EF=BF=BDam, "bigorangebus" <bigorange...@yahoo.com> wrote:
> Does anyone have any tips on increasing sensitivity for a medium wave
> receiver trying to distinguish navtex 170Hz phase shifts on a low
> power carrier at 518kHz?!
>
> Ive been on and off trying to do this project for my boat for a year.
> I say off and on, its become most frustrating! =A0I can't use a loop
> antenna because its just too big and too directional for use on a
> boat. =A0So I'm currently using a Nasa Marine active aerial (it is just
> a small plate attached to a standard fet common source driver
> circuit). =A0I have that going down some coax through capacitive
> impedance transformer and inductor creating some extra front end
> selectivity, to the input of a 612 mixer, getting 6kHz IF (after being
> mixed with a lo). =A0I'm driving the 612 differentially, as its a slight
> improvement over single ended. =A0From here Ive tried using several op
> amp filter circuits, and they all perform adequately.
>
> Heres my problem, the receiver just picks up too much noise.
> Everything interferes with it, even the scan on my oscilloscope. =A0Even
> without this, taking the aerial out of the room, the actual noise in
> the system is too high to pick up anything but the strongest navtex
> signals (which are decoded). =A0Of course AM radio broadcasts are way
> above the background noise, and navtex signals are much lower power.
> And AM radio has the help of our ears to tune out the noise.
>
> It works better when closer to the transmitter of course, but the
> navtex spec says you should be able to pick up stations 400 miles
> away, and i'm only just decoding the local one 100 miles away.
>
> So my question is, does anyone know of any special techniques on the
> RF side that can improve my noise handling/signal integrity? (my
> expensive sony worldband receiver seems pretty good at it on SSB).
> And....does anyone know how the upper market receivers get such a good
> signal? =A0My receiver just samples the input frequency (as does the
> Nasa low end I think), so is very susceptible to any interference.
>
> Grateful and very interested to hear views on this.

   Andy, you may hate yourself after reading this, but there IS
```

a solution to improving signal-to-noise ratio with a loop:

Mount it HORIZONTALLY. :-)

A loop can be an advantage when it has an electrostatic shield included in it. The pattern will be roughly omnidirectional. With horizontal mounting it won't be high to hit either sail booms or be taken away by wind as easily as a vertically-mounted loop.

In 1967 I proved that to myself with a 60 KHz loop intended for the new WWVB service from (then) NBS (now NIST). 13 x 13 feet in the attic space above my house' center room. Had lots of noisy appliances in the house then, plus harmonics from old tube-type TVs' horizontal sweep (two). Good signal despite all that, just didn't have the good digital hardware to decode it. BTW, a roll of Reynolds' Wrap aluminum foil was sacrificed to make a nice electrostatic shield over #12 AWG electric power wire used for the loop itself.

What I use now is a vertically-mounted loop of #14 wire 2 1/2' in diameter, tuned to 60 KHz. The resonating capacitor for tuning is 10 feet below the loop, using some of 75 Ohm coax capacitance as part of that tuning. Balanced tuning with coax shields together as the center common, aluminum foil as an electrostatic shield connected only to the common. Works well to Fort Collins about a thousand statute miles away.

An "AM BC Band" tuning is easily possible although the number of turns will be reduced (and thus cutting down on developed RF voltage output), but lots of those have been made by others over the years. Mounting the loop horizontally might cause a slight detuning but nothing severe and be roughly omnidirectional so the boat could be in any heading without changing signal strength.

Good luck on that,

LenAnderson@ieee.org

From 4378954080898388457
X-Google-Thread: fc2a5,8425b2cad2e3671c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!m58g2000cwm.googlegroups.com!not-for-mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Re: When is a hybrid not a hybrid?
Date: 13 Feb 2007 10:46:04 -0800
Organization: http://groups.google.com
Lines: 51
Message-ID: <1171392364.598528.71680@m58g2000cwm.googlegroups.com>
References: <Jxv0GDRFELwFFAt9@ifwtech.co.uk>
   <AT4wh.23898$yC5.10103@newssvr27.news.prodigy.net>
   <1170374395.838360.237420@j27g2000cwj.googlegroups.com>
   <45c30319$0$8724$ed2619ec@ptn-nntp-reader02.plus.net>
   <1170447432.967066.92590@p10g2000cwp.googlegroups.com>
   <1170484036.926512.200460@q2g2000cwa.googlegroups.com>
   <Gue16yPL+c0FFA8D@ifwtech.co.uk>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1171392387 22376 127.0.0.1 (13 Feb 2007 18:46:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 13 Feb 2007 18:46:27 +0000 (UTC)
In-Reply-To: <Gue16yPL+c0FFA8D@ifwtech.co.uk>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-tb03.proxy.aol.com[CFC8708C] (Prism/1.1.9), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: m58g2000cwm.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:9021
```

On Feb 13, 6:47=EF=BF=BDam, Ian White GM3SEK <gm3...@ifwtech.co.uk> wrote:

> Thanks for all the interesting replies - particularly Len's long
> historical narrative - and please accept my apologies for not responding
> immediately. The magazine article took a different course from the one
> that I'd anticipated, and thus took much longer to write.
>
> After all the research and reminiscence, though, we still aren't much
> closer to understanding why some old-time telephone engineer named this
> circuit a "hybrid" . We can only speculate that, before finding his true
> vocation with Ma Bell, he had failed both English and Genetics.
>
> In the end it seemed more important to concentrate on the defining
> characteristics of a modern "RF hybrid", which are coupling between some
> of its ports (usually equal power division), and at the same time,
> isolation between other ports. Even that is more of a loose consensus
> than a firm definition, of course.
>
> Anyhow, the article eventually started with a fairly detailed
> description of the telephone hybrid (which also explains why a hybrid
> can sometimes be called a bridge instead) and then wandered onward to
> identify a few RF hybrids and describe some useful applications of RF
> hybrids; by which point, I had used up my two pages.

>
> Thanks again to everyone who contributed - it certainly helped to
> straighten out my thinking on what had originally seemed such an
> innocent little question.
>
> --
>
> 73 from Ian GM3SEK =A0 =A0 =A0 =A0 'In Practice' columnist for RadCom (RS=
GB)http://www.ifwtech.co.uk/g3sek

Heh heh heh, the etymological problems can be furthered by looking at other terms in all of electronics and how they came to be known. :-) Sometimes we just have to plain accept common terms rather than buy industrial-strength aspirin quantities to ease the ensuing headaches. "English" (our supposed 'common' language) has, like most other languages in Yurp, grown, adopted, changed, mangled, seasoned, and baked thoroughly by common folk for centuries in daily use. The only "correct" use seems to be that authorized by our school teachers... :-)

How about posting in here when the publishing schedule is firm about which issue the article will appear in? [he said, mangling sentence structure] Might be a fun future topic for discussion? :-)

LenAnderson@ieee.org

From -8119518165535414191
X-Google-Thread: fcc6e,f050d19442caec27
X-Google-Thread: 11480d,f050d19442caec27
X-Google-Thread: 108122,a2fa3cbea06513a2
X-Google-Thread: fc2a5,a2fa3cbea06513a2
X-Google-Thread: fc8b1,be00b22ad54b4a13,start
X-Google-Thread: f7653,be00b22ad54b4a13,start
X-Google-Thread: 10e8ad,be00b22ad54b4a13,start
X-Google-Attributes:
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
news.glorb.com!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.amateur.digital.misc,rec.radio.amateur.space
Subject: Re: 3rd RFD: rec.radio.amateur.moderated moderated (LAST CALL FOR COMMENTS)
Date: 13 Feb 2007 19:02:40 GMT

Organization: The National Capital FreeNet
Lines: 64
Message-ID: <eqt20g$qrk$1@theodyn.ncf.ca>
References: <nan.20070110144508$401c@killfile.org>
<nan.20070125162526$4ac9@killfile.org> <45be9f15$0$170$540ea2cf@novia.net>
<45d1fe5c$0$37578$540ea2cf@novia.net>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1171393360 27508 134.117.136.48 (13 Feb 2007 19:02:40 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 13 Feb 2007 19:02:40 GMT
Xref: g2news2.google.com rec.radio.amateur.antenna:25230 rec.radio.amateur.dx:2785
rec.radio.amateur.equipment:8047 rec.radio.amateur.homebrew:9022
rec.radio.amateur.boatanchors:7509 rec.radio.amateur.digital.misc:473
rec.radio.amateur.space:591

"Paul W. Schleck, K3FU" (pschleck@novia.net) writes:
> The following was just posted to Usenet by the news.announce.newgroups
> moderator on behalf of the Big-8 Management Board:
>

And for the third time, you still ignore part of the hierarchy.

While the first RFD ignored the hierarchy except for .misc and .policy, and the second RFD added .antennas and .dx, this third RFD long after the discussion started still ignores three of the newsgroups in the hierarchy:
  rec.radio.amateur.boatanchors
  rec.radio.amateur.digital.misc
  rec.radio.amateur.space

In the end, you can't speak for the hierarchy if you don't even know which newsgroups exist in the hierarchy. No wonder you have such disregard for the hierarchy, you only think of yourself as some "administrator" type rather than a participant.

You aren't building bridges, you're imposing your vision on the hierarchy. The fact that you still don't come to the hierarchy and simply talk to us, isntead hiding behind the structure of creating a new newsgroup, says everything about your relationship to newsgroups.

IN the end, I conclude that you like moderated newsgroups because Usenet never sat well with you, and the only way you can deal with it is impose your need for rules on something that is a haven from that.

Ultimately, you are like the problem posters. Neither of you can live without rules, though you need them because you can't tolerate the lack of rules, while they need them because they think the lack of rules is license to do as they please.

You've spent the decade trying to impose rules on the hierarchy, while the rest of us were actually trying to make the hierarchy good by participating in the discussions.

Useless administrators are always trumped by people doing things.

Michael VE2BVW

> http://www.big-8.org/dokuwiki/doku.php?id=nan:2007-02-13-rec.radio.amateur.moderated-lcc
>
> This is a Request for Discussion (RFD) and Last Call for Comments (LCC)
> to create a new moderated discussion newsgroup for amateur radio on
> Usenet. It has been relayed to rec.radio.amateur.antenna,
> rec.radio.amateur.dx, rec.radio.amateur.equipment, and
> rec.radio.amateur.homebrew, as announced in the RFD/LCC. Please
> consider contributing your opinions regarding this newsgroup to
> news.groups.proposals, where followups to this message have been set.
>
> --
> 73, Paul W. Schleck, K3FU
> pschleck@novia.net
> http://www.novia.net/~pschleck/
> Finger pschleck@novia.net for PGP Public Key
>
>
>
>

From -6152767924432821884
X-Google-Thread: fc2a5,87fa50249afb23ed
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!newsfeed.stanford.edu!sn-xt-sjc-03!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: Lawrence Statton XE2/N1GAK <yankeeinexile@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Simple wideband audio amplifier circuit?
Date: 13 Feb 2007 13:03:40 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <877iulop6b.fsf@gmail.com>
Sender: lawrence@hummer
References: <1171383280.535643.3860@v45g2000cwv.googlegroups.com>
User-Agent: Gnus/5.09 (Gnus v5.9.0) Emacs/21.1
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
X-Complaints-To: abuse@supernews.com
Lines: 35
Xref: g2news2.google.com rec.radio.amateur.homebrew:9023

mcclements@gmail.com writes:

> Hello,
>
> I have been looking around the web for a complete kit for an audio
> amplifier, for a circuit that I am building that needs to have a wide,
> flat as possible frequency response (0Hz - 100Khz). Need to be able to
> bring 400mV up to line level. I have seen several kits based on a
> LM386, but I can't find any specs that show that circuit is reliable
> beyond 20hz - 20Khz. I am a beginner, so keep that in mind when
> responding.
>
> -Scott, WU2X
>

Who's definition of line level? For consumer audio gear, line level
is 0.1 milliwatt into 1000 ohms, or roughly 320mVrms. If your source
impeadance is sufficiently low (most gear has input impeadance in the
several-thousand ohm range), you're done.

If you need it for studio gear, then you've got to get your singal up
to 2.5 milliwatts into 600 ohms, or about 1.2 Vrms, and any of a
million op-amps can give you the gain you need to reach those levels.

The ubiquitous 741 is cheap and easy to use, but the now 40-year-old
design is kinda noisy.

I cannot imagine that a 386 would be a good match just because it's
designed for much lower output impeadance and much MUCH higher levels.

--
Lawrence Statton - lawrenabae@abaluon.abaom s/aba/c/g
Computer software consists of only two components: ones and
zeros, in roughly equal proportions.   All that is required is to
place them into the correct order.

From 4239071299500347728
X-Google-Thread: fc2a5,bfd5cef3edcd9bbd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!v45g2000cwv.googlegroups.com!not-for-mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: killing cars with high RF?
Date: 13 Feb 2007 11:32:55 -0800
Organization: http://groups.google.com
Lines: 31
Message-ID: <1171395174.943894.232130@v45g2000cwv.googlegroups.com>
References: <1171322270.786928.164360@a75g2000cwd.googlegroups.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"

```
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1171395196 29203 127.0.0.1 (13 Feb 2007 19:33:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 13 Feb 2007 19:33:16 +0000 (UTC)
In-Reply-To: <1171322270.786928.164360@a75g2000cwd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-tb03.proxy.aol.com[CFC8708C] (Prism/1.1.9), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: v45g2000cwv.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:9024

On Feb 12, 3:17=EF=BF=BDpm, "KE5MBX" <nelson.bl...@gmail.com> wrote:
> Hi,
> What's all this business I hear people talking about blasting people's
> car stereos or killing cars altogether with high-power RF? I run 2m,
> 10m, and 11m in my jeep and I'd like to sort out the fact from the
> legend and find out what kind of power I can use without risking
> damage to my jeep or cars around me. =A0At what power level is front-end
> overload to a nearby radio likely? At what power level is damage
> likely, and to what componets?
>
> I am currently using only 50 watts on a 5/8 wave (2m), 25w on a 1/4
> wave (10m), legal 4w on a 1/4 wave (11m)
>
> Thanks,
> Nelson KE5MBX

   If you are using TeraWatts of output power (unlikely) or wish
   to detonate a nuclear device (for its EMP or Electro-Magnetic
   Pulse), you are not going to blast anyone's rig or ruin their
   auto boom-box or even harm their ignition from a ready-built
   amateur radio rig.

   As the good "doctor" said, your ham radio test should have
   clued you in on what is considered "harmful" to humans.
   How about reigning in some hysteria and folk tales and
   concentrate on actual building-testing-slinging-solder
   radio-electronics instead of some fantasy notions?  :-(

   LenAnderson@ieee.org




From -7033985428618519375
X-Google-Thread: fc2a5,8425b2cad2e3671c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 13 Feb 2007 15:36:06 -0600
Message-ID: <3FDJgJY+xi0FFA4M@ifwtech.co.uk>
Date: Tue, 13 Feb 2007 21:24:14 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: When is a hybrid not a hybrid?
References: <Jxv0GDRFELwFFAt9@ifwtech.co.uk>
 <AT4wh.23898$yC5.10103@newssvr27.news.prodigy.net>
 <1170374395.838360.237420@j27g2000cwj.googlegroups.com>
 <45c30319$0$8724$ed2619ec@ptn-nntp-reader02.plus.net>
 <1170447432.967066.92590@p10g2000cwp.googlegroups.com>
 <1170484036.926512.200460@q2g2000cwa.googlegroups.com>
 <Gue16yPL+c0FFA8D@ifwtech.co.uk>
 <1171392364.598528.71680@m58g2000cwm.googlegroups.com>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<524kzThVO5sWTFKkHhwHHc+5zR>)
Lines: 69
NNTP-Posting-Host: 82.152.97.248
X-Trace: sv3-OGqB6dCw01aei8pAfBVwo6oPodzAscp+s+WS7T5cU9qds/
9dErebUErDd8UtVYPrOCbWMGD809pOQsx!
BzG809RnOP7XUC8zJ+GXbE2/6oKDSdroXWw3IxrqEgnqRpUwSQKegIFd2ELqiUg6WOyxUcrbYg==
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9025
```

LenAnderson@ieee.org wrote:

>On Feb 13, 6:470 >> Thanks for all the interesting replies - particularly Len's long
>> historical narrative - and please accept my apologies for not responding
>> immediately. The magazine article took a different course from the one
>> that I'd anticipated, and thus took much longer to write.
>>
>> After all the research and reminiscence, though, we still aren't much
>> closer to understanding why some old-time telephone engineer named this
>> circuit a "hybrid" . We can only speculate that, before finding his true
>> vocation with Ma Bell, he had failed both English and Genetics.
>>
>> In the end it seemed more important to concentrate on the defining
>> characteristics of a modern "RF hybrid", which are coupling between some
>> of its ports (usually equal power division), and at the same time,
>> isolation between other ports. Even that is more of a loose consensus
>> than a firm definition, of course.
>>

>> Anyhow, the article eventually started with a fairly detailed
>> description of the telephone hybrid (which also explains why a hybrid
>> can sometimes be called a bridge instead) and then wandered onward to
>> identify a few RF hybrids and describe some useful applications of RF
>> hybrids; by which point, I had used up my two pages.
>>
>> Thanks again to everyone who contributed - it certainly helped to
>> straighten out my thinking on what had originally seemed such an
>> innocent little question.
>>
>> --
>>
>> 73 from Ian GM3SEK 0 >>(RSGB)http://www.ifwtech.co.uk/g3sek
>
>   Heh heh heh, the etymological problems can be furthered
>   by looking at other terms in all of electronics and how they
>   came to be known. :-)   Sometimes we just have to plain
>   accept common terms rather than buy industrial-strength
>   aspirin quantities to ease the ensuing headaches.

The trouble is, there just aren't enough words to go around, so innocent little words - "power", for example - are forced to totter under the weight of a dozen different definitions.

>"English"
>   (our supposed 'common' language) has, like most other
>   languages in Yurp, grown, adopted, changed, mangled,
>   seasoned, and baked thoroughly by common folk for
>   centuries in daily use. The only "correct" use seems to
>   be that authorized by our school teachers... :-)
>

Unfortunately the world is full of people who never move beyond the "rules" of grammar and punctuation as taught to little children.

>   How about posting in here when the publishing schedule
>   is firm about which issue the article will appear in? [he
>   said, mangling sentence structure] Might be a fun future
>   topic for discussion? :-)

The article will definitely appear in the April issue, which goes to print in early March. It won't be possible to post it here, for copyright reasons and because it will be in pdf format, but I will try to send a courtesy copy to everyone who has contributed directly to the discussion.

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From -2603978122355857870
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 13 Feb 2007 16:22:00 -0600
Date: Tue, 13 Feb 2007 22:22:00 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW Bands
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
In-Reply-To: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net>
Lines: 14
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-xrODi7GJbZPxKp25w9aJEIJSvWD8WuhRMEEfm/
rmXMjv8iqms57zKV+rh5qG3QZYU+OpiGVfrKYSdQe!Nl8cGHQlYFAvSA/
n2HRFVeUUEcKU70qDcEJ5oM2F9wlXH7Pd93Zv8PR0vFNmYnWtuEzMT5OmPXu/!XigGv3JCHQ==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9026

I would have to say yes, since CW has always been allowed on ALL amateur
bands, from the bottom end to the top end of each.

Scott
N0EDV

julian814 wrote:
> Now that code has been dropped from the license requirement, what will
> happen to the CW frequencies? Will people still be able to use Morse
> Code on them?
>
>
> Ralph Glatt
>

From 7061089828804356050
X-Google-Thread: fc2a5,bfd5cef3edcd9bbd

X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v45g2000cwv.googlegroups.com!not-for-mail
From: rkmr15203@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: killing cars with high RF?
Date: 13 Feb 2007 16:02:34 -0800
Organization: http://groups.google.com
Lines: 26
Message-ID: <1171411354.056845.264180@v45g2000cwv.googlegroups.com>
References: <1171322270.786928.164360@a75g2000cwd.googlegroups.com>
NNTP-Posting-Host: 66.207.140.34
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1171411360 18699 127.0.0.1 (14 Feb 2007 00:02:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 14 Feb 2007 00:02:40 +0000 (UTC)
In-Reply-To: <1171322270.786928.164360@a75g2000cwd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; Intel Mac OS X; en-US; rv:1.8.1.1) Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v45g2000cwv.googlegroups.com; posting-host=66.207.140.34;
   posting-account=hIBG4QwAAABmyUjVszCagfiv3auvyxQp
Xref: g2news2.google.com rec.radio.amateur.homebrew:9027

On Feb 12, 6:17 pm, "KE5MBX" <nelson.bl...@gmail.com> wrote:

> Hi,
> What's all this business I hear people talking about blasting people's
> car stereos or killing cars altogether with high-power RF? I run 2m,
> 10m, and 11m in my jeep and I'd like to sort out the fact from the
> legend and find out what kind of power I can use without risking
> damage to my jeep or cars around me. At what power level is front-end
> overload to a nearby radio likely? At what power level is damage
> likely, and to what componets?
>
> I am currently using only 50 watts on a 5/8 wave (2m), 25w on a 1/4
> wave (10m), legal 4w on a 1/4 wave (11m)
>
> Thanks,
> Nelson KE5MBX

There are many times when "high" power has disrupted other devices.
The early car computers have been know to shut down with 100 watts of
VHF. Worked on a police car that the engine would shut off when over
80 mph and key the radio.
 A friend would be taking on his 1KW mobile as he pulled into his
driveway. He would find his base radio receiver front end blown. Took
three times to think it through and as he should have been doing,
switch his base antenna (dipole over the driveway) to ground, when not
in use.

From 7382862654526796275
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wn14feed!worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
Message-ID: <45D25B20.1090806@worldnet.att.net>
From: John Siegel <JohnASiegel@worldnet.att.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.0.2) Gecko/20030208 Netscape/7.02
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW Bands
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com> <z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 22
Date: Wed, 14 Feb 2007 00:43:12 GMT
NNTP-Posting-Host: 12.76.5.62
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1171413792 12.76.5.62 (Wed, 14 Feb 2007 00:43:12 GMT)
NNTP-Posting-Date: Wed, 14 Feb 2007 00:43:12 GMT
Organization: AT&T Worldnet
Xref: g2news2.google.com rec.radio.amateur.homebrew:9028

Scott wrote:
> I would have to say yes, since CW has always been allowed on ALL amateur
> bands, from the bottom end to the top end of each.
>
> Scott
> N0EDV
>
> julian814 wrote:
>
>> Now that code has been dropped from the license requirement, what will
>> happen to the CW frequencies? Will people still be able to use Morse
>> Code on them?
>>
>>
>> Ralph Glatt
>>

FYI - THat is no longer 100% true since the spot frequencies on 60M are
USB only.
And 6 and 2 are the only places with CW only bands.

```
From -7725410124900104482
X-Google-Thread: fc2a5,bfd5cef3edcd9bbd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!a34g2000cwb.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: killing cars with high RF?
Date: 13 Feb 2007 18:31:05 -0800
Organization: http://groups.google.com
Lines: 36
Message-ID: <1171420263.994620.274520@a34g2000cwb.googlegroups.com>
References: <1171322270.786928.164360@a75g2000cwd.googlegroups.com>
   <1171411354.056845.264180@v45g2000cwv.googlegroups.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1171420270 24397 127.0.0.1 (14 Feb 2007 02:31:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 14 Feb 2007 02:31:10 +0000 (UTC)
In-Reply-To: <1171411354.056845.264180@v45g2000cwv.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-te07.proxy.aol.com[CFC87223] (Prism/1.1.9), HTTP/1.1 cache-ntc-
aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: a34g2000cwb.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:9029

On Feb 13, 4:02=EF=BF=BDpm, rkmr15...@yahoo.com wrote:
> On Feb 12, 6:17 pm, "KE5MBX" <nelson.bl...@gmail.com> wrote:
>
> > Hi,
> > What's all this business I hear people talking about blasting people's
> > car stereos or killing cars altogether with high-power RF? I run 2m,
> > 10m, and 11m in my jeep and I'd like to sort out the fact from the
> > legend and find out what kind of power I can use without risking
> > damage to my jeep or cars around me. =A0At what power level is front-end
> > overload to a nearby radio likely? At what power level is damage
> > likely, and to what componets?
>
> > I am currently using only 50 watts on a 5/8 wave (2m), 25w on a 1/4
> > wave (10m), legal 4w on a 1/4 wave (11m)
>
> > Thanks,
> > Nelson KE5MBX
```

>
> There are many times when "high" power has disrupted other devices.
> The early car computers have been know to shut down with 100 watts of
> VHF. Worked on a police car that the engine would shut off when over
> 80 mph and key the radio.
> =A0A friend would be taking on his 1KW mobile as he pulled into his
> driveway. He would find his base radio receiver front end blown. Took
> three times to think it through and as he should have been doing,
> switch his base antenna (dipole over the driveway) to ground, when not
> in use.

Isn't that just ordinary RFI/EMI that can happen in a house
environment? :-)

Don't expect auto makers to RFI-proof their wiring without an
extra kilodollar add-in to the sticker price.

LenAnderson@ieee.org

```
From -9105350704656998078
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 13 Feb 2007 21:13:43 -0600
Date: Wed, 14 Feb 2007 03:13:42 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW Bands
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
<z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net> <45D25B20.1090806@worldnet.att.net>
In-Reply-To: <45D25B20.1090806@worldnet.att.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <86Wdna-DDdz140_YnZ2dnUVZ_rGinZ2d@bright.net>
Lines: 32
NNTP-Posting-Host: 64.33.199.218
X-Trace:
sv3-0yT+JonJxVOCJEYjjPW6jrJ7eisC9yt+8LAEKgS8Xc5PyfinnKLLUhE+n6ai1kpLdG70zDQ3PUhpzm
h!/os+V3UWjLuMccIx/jIk5ekwoqVRsGNqx2qv2ddPsg6eXG/1wM/+HlE0/eiQ0xMbOK1GeB/OJDDy!
99eVyujWrw==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

```
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:9030

Oops, forgot about 60M.  Not sure about 6 and 2 being the only bands
with a CW only portion.  Maybe a better choice of words would be
"non-voice portions" since it appears that the HF bands still have
segments designated for rtty and data. ???

Scott


John Siegel wrote:
>
>
> Scott wrote:
>
>> I would have to say yes, since CW has always been allowed on ALL
>> amateur bands, from the bottom end to the top end of each.
>>
>> Scott
>> N0EDV
>>
>> julian814 wrote:
>>
>>> Now that code has been dropped from the license requirement, what will
>>> happen to the CW frequencies? Will people still be able to use Morse
>>> Code on them?
>>>
>>>
>>> Ralph Glatt
>>>
> FYI - THat is no longer 100% true since the spot frequencies on 60M are
> USB only.
> And 6 and 2 are the only places with CW only bands.
>


From -7420917518327472848
X-Google-Thread: fc2a5,61f995ce17ef3736
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-out.readnews.com!news-
xxxfer.readnews.com!news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW Bands
Date: Wed, 14 Feb 2007 09:21:02 +0000 (UTC)
Organization: MGT Consulting
Lines: 29
Message-ID: <slrnet5klu.l16.gsm@cable.mendelson.com>
References: <1171305409.403526.161620@h3g2000cwc.googlegroups.com>
```

<z92dnfhhIqmVp0_YnZ2dnUVZ_qbinZ2d@bright.net> <45D25B20.1090806@worldnet.att.net>
<86Wdna-DDdz140_YnZ2dnUVZ_rGinZ2d@bright.net>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-138-170-64.bb.netvision.net.il
X-Trace: marvin.misty.com 1171444862 1754 89.138.170.64 (14 Feb 2007 09:21:02 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Wed, 14 Feb 2007 09:21:02 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:9031

Scott wrote:
> Oops, forgot about 60M. Not sure about 6 and 2 being the only bands
> with a CW only portion. Maybe a better choice of words would be
> "non-voice portions" since it appears that the HF bands still have
> segments designated for rtty and data. ???

IMHO that was a mistake. It was because the U.S. voice portions of 80m and 40m
where inacessable to ITU zone 1 hams. So putting the data and rtty in them
would have slowed down their growth.

Tune across the high end of the old 80m and 40m CW bands, and you can
see what I mean. from 7100 down, it's almost unusable due to digital
signals, some nights as low as 7050. The same thing with 3850 which is
the top end of my 80m band.

Yes, we now have 7100-7200, but it's not much good for DX yet. It's still
filled with high power SWBC stations who have no intention of moving.
When they are off the air, there is no propigation. :-(

To veer this discussion anywhere near the topic. If you asked because
you are thinking of building a CW only rig, don't worry, it will be
usefull for a long time to come.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
IL Voice: (07)-7424-1667 Fax ONLY: 972-2-648-1443 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/

From 6161270112854591181
X-Google-Thread: fc2a5,bfd5cef3edcd9bbd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!
trnddc03.POSTED!291cd109!not-for-mail
From: Al <no.spam@wanted.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: killing cars with high RF?
References: <1171322270.786928.164360@a75g2000cwd.googlegroups.com>

```
<1171411354.056845.264180@v45g2000cwv.googlegroups.com>
<1171420263.994620.274520@a34g2000cwb.googlegroups.com>
User-Agent: MT-NewsWatcher/3.1 (PPC)
Message-ID: <no.spam-5A4376.08312614022007@news.verizon.net>
Lines: 50
Date: Wed, 14 Feb 2007 13:31:25 GMT
NNTP-Posting-Host: 68.239.22.253
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc03 1171459885 68.239.22.253 (Wed, 14 Feb 2007 08:31:25 EST)
NNTP-Posting-Date: Wed, 14 Feb 2007 08:31:25 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:9032

In article <1171420263.994620.274520@a34g2000cwb.googlegroups.com>,
 "LenAnderson@ieee.org" <LenAnderson@ieee.org> wrote:

> On Feb 13, 4:02?pm, rkmr15...@yahoo.com wrote:
> > On Feb 12, 6:17 pm, "KE5MBX" <nelson.bl...@gmail.com> wrote:
> >
> > > Hi,
> > > What's all this business I hear people talking about blasting people's
> > > car stereos or killing cars altogether with high-power RF? I run 2m,
> > > 10m, and 11m in my jeep and I'd like to sort out the fact from the
> > > legend and find out what kind of power I can use without risking
> > > damage to my jeep or cars around me.  At what power level is front-end
> > > overload to a nearby radio likely? At what power level is damage
> > > likely, and to what componets?
> >
> > > I am currently using only 50 watts on a 5/8 wave (2m), 25w on a 1/4
> > > wave (10m), legal 4w on a 1/4 wave (11m)
> >
> > > Thanks,
> > > Nelson KE5MBX
> >
> > There are many times when "high" power has disrupted other devices.
> > The early car computers have been know to shut down with 100 watts of
> > VHF. Worked on a police car that the engine would shut off when over
> > 80 mph and key the radio.
> >  A friend would be taking on his 1KW mobile as he pulled into his
> > driveway. He would find his base radio receiver front end blown. Took
> > three times to think it through and as he should have been doing,
> > switch his base antenna (dipole over the driveway) to ground, when not
> > in use.
>
>    Isn't that just ordinary RFI/EMI that can happen in a house
>    environment?  :-)
>
>    Don't expect auto makers to RFI-proof their wiring without an
>    extra kilodollar add-in to the sticker price.
>
>    LenAnderson@ieee.org
>

In Montana, there was a Sage radar, 5MW pulse power, which would zap
```

your car radio when the beam crossed it. Fortuneatly this was in the 60's before the electronics control of your car's engine. The solution was to tilt the radar antenna up 5 deg. so both the town and the highway that passed in front of it were not impacted. Even so, I have tape recordings from that era which have a little zap in the every 12 secs as the lobes passed through town when the antenna rotated. Oh yes, and before the antenna was tilted, flourescent lights would also blink.

Al

```
From 5870983831562187914
X-Google-Thread: fc2a5,87fa50249afb23ed
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news01.roc.ny.POSTED!083ea5b4!
not-for-mail
From: Ben Bradley <ben_nospam_bradley@frontiernet.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Simple wideband audio amplifier circuit?
Reply-To: ben_nospam_bradley@frontiernet.net
Message-ID: <l9d6t299eash8kkjqenqi494rn9q495fvp@4ax.com>
References: <1171383280.535643.3860@v45g2000cwv.googlegroups.com>
<eqssvm$nnn$1@theodyn.ncf.ca>
<1171391363.636895.49620@v45g2000cwv.googlegroups.com>
X-Newsreader: Forte Free Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 33
X-Complaints-To: abuse-news@frontiernet.net
X-Trace:
52616e646f6d4956aa8b238aa2f708cbd5ae37705769b3a07d275182d50b7c19eeab4e7a80ef8e4206
d0339c31ba668e24e5cce5277f15b7be96c5149259b257f86f5157968dad27cc43f24335a31df5e565
2679ae72c612975e760f94dcd90c0414d269d22e10ea26ddffd2468a5692caa8a1c4e93c3922d9a8b6
17df550569
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Wed, 14 Feb 2007 16:13:48 UTC
Date: Wed, 14 Feb 2007 16:13:48 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:9033
```

On 13 Feb 2007 10:29:23 -0800, mcclements@gmail.com wrote:

>This will feed a computer soundcard running at a 192Khz sampling rate
>(unbalanced line level in). -Scott

I think you'll get your best help if you ask this on sci.electronics.design, it has a lot more traffic.

I'd definitely use a good op-amp, and definitely NOT an LM386

(single-chip audio power amp, meant to drive a small loudspeaker). The
manufacturer's page here:
http://www.national.com/pf/LM/LM386.html
gives distortion as 0.2 percent, which is pretty bad by modern
standards. The soundcard and a good op-amp will surely give much
better performance.

You said in your original post you want response to DC (0 Hz). All
the soundcards I've heard of are capacitively coupled, and have a
rolloff of around 5 to 10 Hz at the best, and even when this is
removed, the DC performance of such cards isn't guaranteed. It might
be better to use an "industrial" interface card such as made by
National Instruments.

>On Feb 13, 12:36 pm, e...@FreeNet.Carleton.CA (Michael Black) wrote:
>
>> But you may be looking for the wrong thing. That's not an audio amplifier,
>> that's a wideband amplifier. A good op-amp is likely going to be what
>> you want, because line level is no more than a volt (if even that), so
>> a gain of about 3 is going to be enough. Of course, if you are driving
>> something out of the ordinary, that may require something more.
>>
>>   Micahel VE2BVW
>

```
From 6129503863266663977
X-Google-Thread: fc2a5,bfd5cef3edcd9bbd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!homer!news.glorb.com!
news-spur1.glorb.com!news.glorb.com!newspeer2.se.telia.net!se.telia.net!
masternews.telia.net.!newsb.telia.net.POSTED!not-for-mail
From: "Hairy Lethal" <oeieio@hootmail.com (spellin mistaik)>
Newsgroups: rec.radio.amateur.homebrew
References: <1171322270.786928.164360@a75g2000cwd.googlegroups.com>
Subject: Re: killing cars with high RF?
Lines: 52
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
X-Antivirus: avast! (VPS 0713-2, 02/14/2007), Outbound message
X-Antivirus-Status: Clean
Message-ID: <iLGAh.33746$E02.13444@newsb.telia.net>
Date: Wed, 14 Feb 2007 16:26:54 GMT
NNTP-Posting-Host: 81.227.196.38
X-Complaints-To: abuse@telia.com
X-Trace: newsb.telia.net 1171470414 81.227.196.38 (Wed, 14 Feb 2007 17:26:54 CET)
NNTP-Posting-Date: Wed, 14 Feb 2007 17:26:54 CET
Organization: Telia Internet
Xref: g2news2.google.com rec.radio.amateur.homebrew:9034
```

> What's all this business I hear people talking about blasting people's
> car stereos or killing cars altogether with high-power RF? I run 2m,
> 10m, and 11m in my jeep and I'd like to sort out the fact from the
> legend and find out what kind of power I can use without risking
> damage to my jeep or cars around me. At what power level is front-end
> overload to a nearby radio likely? At what power level is damage
> likely, and to what componets?
>
> I am currently using only 50 watts on a 5/8 wave (2m), 25w on a 1/4
> wave (10m), legal 4w on a 1/4 wave (11m)

About 2 years ago I was in a rather frivolous mood, brought about by a drop of absolute vodka. I wondered just how certain things reacted when put in a 750 Watt microwave oven.

I first tried a new way of burning a CD. Amid sparks and a pyrotechnic display that appealed to my sense of pissedness, it sort of got crazy-paved. After about 20 seconds I had to switch off the microwave because of the stench.

Then I turned to more "electronic" things. A Fujian MP3 player bit the dust instantly. Basically there was one huge "woooooffff!", then the PCB set fire to the plastic case after about 30 seconds.

Then I tried an old hamradio rig. It was an old Trio (Kenwood in the USA) 2200GX, crystal-controlled rig, with a rubber-duck antenna, and a battery compartment that had not held batteries for several years. I put it in as it was, but without the mic. Battery door open, rubber-ducky antenna on.

It sat there for about 15 seconds before anything happened, then the front panel sparked a bit and caught fire. The front panel looked similar to the CD, but a bit more melted-down, and the knobs had changed to a totally new shape. But apart from that, the radio itself still worked fine after a 30 second 750W cook. It just looked more of a mess then it did originally.

Out of interest I tested it. I was expecting RF to get in the antenna and coarse its way through the PCB, but no! The RF sensitivity was 1.25uV PD for 20dB sinad. Perhaps that was 10dB down, but it was still quite useable The TX was still delivering 1.5 Watts.

I took off the case and tried again, and THAT killed it for sure. After only 10 seconds the PCB "whooffed", with loads of sparks and spitting.

But the point is that you cannot couple more power into a rig than that, even with the cover on. The antenna was connected, and 750 W did not kill it instantly, as expected. These rigs are far more resilient than one would imagine.

BR Hairy
NOSPAM_oeieio(at)hotmail.com

From 6561294424280004264
X-Google-Thread: fc2a5,1fdda873784087dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe06.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1170079761.013134.323880@l53g2000cwa.googlegroups.com>
<F%0wh.19002$w91.475@newsread1.news.pas.earthlink.net>
Subject: Re: Two QRP questions, one easy, the other, tricky...
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <9K2wh.400$6z6.31@newsfe06.lga>
X-Trace:
lalincmlnekeejjflhbgfpgcdpepfmkgfkfjkdnmikicgnfenicfceledepkikoolhlefpnpglhfdcnhpb
mmfhacoiihpbjcgdpklbagjikbenhckkhkkhhohobpgffjjcecfidbdaffifbo
NNTP-Posting-Date: Wed, 31 Jan 2007 08:38:45 MST
Date: Wed, 31 Jan 2007 10:38:37 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8878

"Brian" <kb9bvn@earthlink.net> wrote in message
news:F%0wh.19002$w91.475@newsread1.news.pas.earthlink.net...

> it though. If it doesn't work, a handful of PN2222's can be had for less
> than a couple of bucks.

BG Micro has the metal ones, that you tend to use in the final, for a quarter, the plastic ones you use for anything else for 6 cents. They have surface mount MMBT2222A's for 4 cents.

2N2222's are handy little transistors that show up everywhere, and any time you need any old NPN, a 2N2222 will generally do, so it never hurts to have a few hundred in the parts drawer. And at $6/100, it doesn't hurt the wallet all that bad, either.

Of course, BG shipping to merrie auld England probably isn't all that pretty, but Farnell or some other local supplier must have something comparable. I'm sure there must be a BC equivalent ... I bet if you found the cheapest NPN it would be the same thing. You might shoot off a note to George or Ian, or perhaps take a peek at the G-QRP's Circuit Handbook. They seem to love the daylights out of the BC108, so I bet it is comparable (although I don't have any data on that to compare).

..

From 4514899379458529314
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p10g2000cwp.googlegroups.com!not-for-mail
From: eternalsquire@comcast.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 31 Jan 2007 09:20:53 -0800
Organization: http://groups.google.com
Lines: 167
Message-ID: <1170264053.144502.270820@p10g2000cwp.googlegroups.com>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
   <45ba4491$0$171$540ea2cf@novia.net>
   <XTruh.23$0B6.97376@news.sisna.com>
   <45bae4f5$0$172$540ea2cf@novia.net>
   <cUBuh.75$iB7.179326@news.sisna.com>
   <3p1nr2hlrmgo05g8c05me802tisusehs37@4ax.com>
   <EWLuh.175$3d.227432@news.sisna.com>
   <sejqr218eim6pdcr1ks1sfuo2h387bd4oc@4ax.com>
   <lucvh.97$Hq2.105576@news.sisna.com>
   <QHovh.4$2g.126076@news.sisna.com>
   <1170092149.128348.163870@v33g2000cwv.googlegroups.com>
   <TPudnQaOWZuEByPYnZ2dnUVZ_uXinZ2d@velocitywest.net>
   <1170173007.622477.52390@s48g2000cws.googlegroups.com>
   <ebqdnacqdpOKjF3YnZ2dnUVZ_sqdnZ2d@velocitywest.net>
NNTP-Posting-Host: 67.142.130.31
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170264058 17170 127.0.0.1 (31 Jan 2007 17:20:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 31 Jan 2007 17:20:58 +0000 (UTC)
In-Reply-To: <ebqdnacqdpOKjF3YnZ2dnUVZ_sqdnZ2d@velocitywest.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p10g2000cwp.googlegroups.com; posting-host=67.142.130.31;
   posting-account=RyqjfwwAAADvOapQHMNoJI3nvO5uDrpo
Xref: g2news2.google.com rec.radio.amateur.homebrew:8880

HP,

The whole point of my original post was to see if forming a micropower net on 80M COULD be done within the rules.   I would indeed be a poor mentor
for encouraging students to break the rules... and I never advocated such. Please speed-read what I post a little slower next time :)

Today I make my first presentation, and I have a pretty bad cold. I don't have any Mr. Wizard exhibits put togther, just the equivalent of a slide show plus a few parts, because I only have a week's notice.

I am changing tack and taking my radio with me to the classroom, if the students are really interested I will lend the classroom my rig until a replacement can be build or bought, and be with them for a couple hours per week as control operator. The science teacher has promised it could be connected outside to a wire antenna of some type if at all possible.

So wish me luck, and please use my handle on Usenet rather than my name from now on. I'd rather not be made by some determined lunatic intent on causing me or my family any harm.

On Jan 30, 8:46 pm, "H. P. Friedrichs" <nos...@please.com> wrote:

> Very well.
>
> Andrew,
>
> A few thoughts about your idea and some of the responses that it has evoked:
>
> First off, I don't think your emphasis should be on transmitting. To me, ham radio is about communication, and communication, first and foremost, is about LISTENING. Listening is what you should emphasize.
>
> Since there are both physical laws of nature and interference (natural and man-made) to contend with, the real magic in radio is the antenna, amplifier(s), filter(s), and operator techniques used to extract useful information from a feeble signal. (Case in point: Voyager 1 is now more than 9 BILLION miles from earth, but as long as its flea-power transmitter holds out, we expect to be able to continue receiving data.)
>
> There is great fun in building simple receivers, and much to be learned. A few years back, for lack of something better to do one evening, I knocked together a regenerative set on the bench top in the garage. I wound a coil on a toilet paper tube, made a grid-leak capacitor out of a couple of microscope slides and some foil, and hooked up an old #26 tetrode. The rig was "wired" with alligator leads and powered by flashlight batteries. The antenna was 15 feet of wire thumb tacked to the garage ceiling, and the ground was a 'gator clip attached to the cover plate screw of a nearby outlet. A few adjustments later and I found myself listening to a radio-theater presentation of "Dracula" put on by the BBC in London. That's more than 5000 miles from where I live. That's magic.
>
> In your case, a FET based regenerative set would be the ticket. Dirt cheap and effective enough to be useful. (I'm thinking something along the lines of 1 FET RF/isolation, 1 FET regen stage, and an LM386 amp

> chip, which will easily drive common walkman-style headphones.)
>
> If you want to teach your kids Morse, use the Code Quick method. Buy a
> copy of a program called Numorse for yourself, and use this to generate
> exercises for the kids. You can put the audio on cassette tape or CD's.
>   When they get up to 5 WPM or so, you have them listen to W1AW. The day
> after a W1AW session you ask the kids some specific question about the
> text that was sent the previous night. Offer prizes or some kind of
> encouragement for positive responses. Once they can receive Morse,
> learning to send is rather easy.
>
> This is something of a detour, but have you ever heard recordings of
> sounds the Ionosphere makes? Remarkable chirps, whistles, clicks, and
> pops. Slow down the recordings and you get sounds that are startlingly
> similar to the songs of certain birds, or the calls of whales. The
> equipment to capture this is cheap and easy to build. This is one
> situation where a remote location is a real asset, because there is far
>   less man-made electrical noise to foul your recordings. Get a kid
> hooked on something like this, and who knows what kind of scientific or
> technical career could develop from this experience.
>
> If you insist on transmitting, or equipping your students to transmit
> before they even have the skills to do so properly, fine, so long as you
> are certain that your activities are within the boundaries of the law.
> With regard to the comments of some in this thread I will simply say
> that the last thing society needs is a "mentor" whose first lesson will
> essentially be: "If you don't like the rules just ignore them." I am of
> the opinion that the preponderance of this attitude is responsible for
> much of the unhappiness in this world.
>
> Final thought. I few years back I authored a book on the subject of
> primitive radio, and how to build radio components from scratch. This
> includes homemade variable capacitors, tuning coils, detectors, and even
> headphones. The equipment is built with hand tools and made from such
> mundane source material as wood, tin cans, cabinet magnets, and
> cigarette lighter parts.
>
> Web link: http://www.hpfriedrichs.com/bks-votc.htm
>
> This book has been critically acclaimed by the editors of QST and
> Practical Wireless in the U.K., and is recommended by at least one
> teacher's guide:http://www.libraryvideo.com/guides/N7003.pdf?
mscssid=B7EATDCXALG28J0F...
>
> I am sensitive to educational and charitable concerns. If you should
> express serious interest in using these in a classroom setting, we could
> discuss how to make this happen.
>
> 73
>
> H P "Pete" Friedrichs
> AC7ZL
>

> eternalsqu...@comcast.net wrote:
> > The why not say it here?
>
> > The Eternal Squire
>
> > On Jan 29, 6:06 pm, "H. P. Friedrichs" <nos...@please.com> wrote:
>
> >>Squire---
>
> >>I tried to email you....it bounced back.
>
> >>Pete
> >>AC7ZL
>
> >>eternalsqu...@comcast.net wrote:
>
> >>>The Dine' (I use the term Navajo because most people outside are
> >>>more familiar with that) are a very proud people who would resent
> >>>being made fun of like that.
>
> >>>To the Dine', we are an alien people out of touch with the
> >>>rhythms of the land, who are obsessed with consumer goods,
> >>>technology, money, or bigotry.   Even such whites are ourselves
> >>>who do see what history has done to the Dine' and find it
> >>>appalling, are viewed as possibly having egotism.
>
> >>>The Dine' are more impressed by whites who listen first then
> >>>act later in small ways that fit what the Dine' already do.
>
> >>>You have to live with the Dine' least a couple years before you
> >>>can even begin to understand the challenge of introducing a
> >>>new technology in a culturally appropriate manner.
>
> >>>The Eternal Squire
>
> >>>On Jan 29, 8:50 am, "RST Engineering" <j...@rstengineering.com> wrote:
>
> >>>>That's true. They sent one kid off to MIT and he came back with a degree in
> >>>>Electrical Engineering. When he got back home he found that the communal
> >>>>restroom had no lights, so to show his gratitude to the tribe he ran
> >>>>electricity to the bathroom.
>
> >>>>So far as we know, that was the first Indian ever to wire a^head for a
> >>>>reservation.
>
> >>>>{;-)
>
> >>>>Jim
>
> >>>>"John Smith I" <assemblywiz...@gmail.com> wrote in
messagenews:lucvh.97$Hq2.105576@news.sisna.com...
>
> >>>>>Some reservations have sent men to the best colleges and have some of the

```
> >>>>>best attorneys in the world.




From 6824830101708380876
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a34g2000cwb.googlegroups.com!not-for-
mail
From: eternalsquire@comcast.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 31 Jan 2007 09:23:03 -0800
Organization: http://groups.google.com
Lines: 62
Message-ID: <1170264183.883906.282350@a34g2000cwb.googlegroups.com>
References: <cUBuh.75$iB7.179326@news.sisna.com>
   <3p1nr2hlrmgo05g8c05me802tisusehs37@4ax.com>
   <EWLuh.175$3d.227432@news.sisna.com>
   <sejqr218eim6pdcr1ks1sfuo2h387bd4oc@4ax.com>
   <lucvh.97$Hq2.105576@news.sisna.com>
   <QHovh.4$2g.126076@news.sisna.com>
   <1170092149.128348.163870@v33g2000cwv.googlegroups.com>
   <TPudnQaOWZuEByPYnZ2dnUVZ_uXinZ2d@velocitywest.net>
   <1170173007.622477.52390@s48g2000cws.googlegroups.com>
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X-Trace: posting.google.com 1170264189 17566 127.0.0.1 (31 Jan 2007 17:23:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 31 Jan 2007 17:23:09 +0000 (UTC)
In-Reply-To: <epp4rb$6cb$1@theodyn.ncf.ca>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a34g2000cwb.googlegroups.com; posting-host=67.142.130.31;
   posting-account=RyqjfwwAAADvOapQHMNoJI3nvO5uDrpo
Xref: g2news2.google.com rec.radio.amateur.homebrew:8881

On Jan 30, 9:10 pm, e...@FreeNet.Carleton.CA (Michael Black) wrote:
> "H. P. Friedrichs" (nos...@please.com) writes:
>
> > This is something of a detour, but have you ever heard recordings of
> > sounds the Ionosphere makes? Remarkable chirps, whistles, clicks, and
> > pops. Slow down the recordings and you get sounds that are startlingly
> > similar to the songs of certain birds, or the calls of whales. The
> > equipment to capture this is cheap and easy to build. This is one
> > situation where a remote location is a real asset, because there is far
```

> > less man-made electrical noise to foul your recordings. Get a kid
> > hooked on something like this, and who knows what kind of scientific or
> > technical career could develop from this experience.
>
> I sort of said something along the same lines, though maybe it's not
> apparent.
>
> The idea of something more open-ended seems more important than a funneling
> into something specific. I don't think anyone could see anything wrong
> with getting the kids interested and even excited about science
> and technology. But how you get them there can be a mystery. Somethingt
> sparks an interest in one child, and not in another. The goal can't be
> about the kids getting a ham license, it has to be the benefits
> they might get from being involved in the hobby. And there are all
> kinds of things that might provide similar benefits, and might suit
> the kids more than spending time preparing them for a ham license. The
> effort might be better spent on getting them interested in something
> that fits them, and letting that be a vector for learning.
>
> Too often, adults forget what it's like to be young, and they use
> adult notions in trying to interpret the young. So often there is
> the "kids today aren't interested in science" yet if they aren't
> given the chance they never will be. And of course, science was
> never something belonging to all. Building that regen receiver
> and getting it working should be as much of a challenge and thrill
> as it was back when I was young, because it's not about having the
> receiver (which won't compare with something store bought) but that
> you built it yourself.
>
> I threw together a stepping motor, diode, "super-cap" and LED to make a
> crank flashlight a couple of months ago. I'm still trying to remember where
> I put the other supercaps I took out of VCRs, because there wasn't enough
> capacity. But I was making it to show the daughter of a friend, who is about
> the right age to appreciate that such things are in the realm of making
> yourself. It doesn't matter that you can buy such things pretty cheaply
> now, it matters that it conveys that such things don't just grow on trees.
>
> If we aren't doing this sort of thing, conveying that we are intrigued
> by such things and showing off how it's not a black box beyond our control
> but something we can put together from scrap parts, then there's no chance
> that the young will become interested in science and technology.
>
> Michael VE2BVW

Well, I did try to build a regenerative receiver to demonstrate to the
class,
but I couldn't get regeneration. Shall I mail it to you to see if you
can debug it?

Thanks,

The Eternal Squire

```
From 3560007587595040241
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a34g2000cwb.googlegroups.com!not-for-
mail
From: eternalsquire@comcast.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 31 Jan 2007 09:27:43 -0800
Organization: http://groups.google.com
Lines: 25
Message-ID: <1170264462.917499.294500@a34g2000cwb.googlegroups.com>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
   <45ba4491$0$171$540ea2cf@novia.net>
   <XTruh.23$0B6.97376@news.sisna.com>
   <45bae4f5$0$172$540ea2cf@novia.net>
   <cUBuh.75$iB7.179326@news.sisna.com>
   <3p1nr2hlrmgo05g8c05me802tisusehs37@4ax.com>
   <EWLuh.175$3d.227432@news.sisna.com>
   <sejqr218eim6pdcr1ks1sfuo2h387bd4oc@4ax.com>
   <lucvh.97$Hq2.105576@news.sisna.com>
   <QHovh.4$2g.126076@news.sisna.com>
   <1170092149.128348.163870@v33g2000cwv.googlegroups.com>
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NNTP-Posting-Date: Wed, 31 Jan 2007 17:27:48 +0000 (UTC)
In-Reply-To: <WPPvh.140$Rf2.209977@news.sisna.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a34g2000cwb.googlegroups.com; posting-host=67.142.130.31;
   posting-account=RyqjfwwAAADvOapQHMNoJI3nvO5uDrpo
Xref: g2news2.google.com rec.radio.amateur.homebrew:8882
```

Point taken, and I beg your pardon. However, I still try to err on
the side
of caution than the other way.

The Eternal Squire

On Jan 30, 3:42 pm, "RST Engineering" <j...@rstengineering.com> wrote:

> Speak for yourself. My grandmother was of the Crow Nation and it has been
> my observation that most evolved peoples have a sense of humor. You might
> consider getting your panties out of a wad and lightening up a bit. I ain't
> any happier than you that my ancestors gave the First Nation the smelly end

> of the stick, but we both know that time moves forwards, not backwards. It
> is what we do OURSELVES that we are accountable for, not the sins of our
> forebears.
>
> I had teachers like you growing up ... sheesh.
>
> Jim
>
>   Even such whites are ourselves
>
> > who do see what history has done to the Dine' and find it
> > appalling, are viewed as possibly having egotism.

From 231758296459406865
X-Google-Thread: fc2a5,a76274d344865ea2
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v45g2000cwv.googlegroups.com!not-for-mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted: Airdux Coil Stock
Date: 31 Jan 2007 09:53:17 -0800
Organization: http://groups.google.com
Lines: 14
Message-ID: <1170265997.352770.89020@v45g2000cwv.googlegroups.com>
References: <pan.2007.01.31.03.17.37.983109@sbcglobal.net>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170266001 21318 127.0.0.1 (31 Jan 2007 17:53:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 31 Jan 2007 17:53:21 +0000 (UTC)
In-Reply-To: <pan.2007.01.31.03.17.37.983109@sbcglobal.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v45g2000cwv.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news2.google.com rec.radio.amateur.homebrew:8883

On Jan 30, 10:15 pm, Steve <kc5...@sbcglobal.net> wrote:
> Hello,
> I'm needing some 3" coil stock 8tpi and some 2 1/2' at 8tpi.

Not cheap, but the horse's mouth is:

  http://www.bwantennas.com/coils/aduxacr.htm

I have been getting glass-epoxy or phenolic tubes (good place: www.mcmaster.com
) and winding mine from rod/wire lately (silver plated in some
cases... learning how to silver plate myself too!).

Tim.

From -455679266452795202
X-Google-Thread: fc2a5,8425b2cad2e3671c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!newscon06.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr27.news.prodigy.net.POSTED!0d06e27e!not-for-mail
From: "Tom Donaly" <dtdonaly@sbcglobal.net>
User-Agent: Mozilla Thunderbird 0.7.1 (Windows/20040626)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: When is a hybrid not a hybrid?
References: <Jxv0GDRFELwFFAt9@ifwtech.co.uk>
In-Reply-To: <Jxv0GDRFELwFFAt9@ifwtech.co.uk>
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Content-Transfer-Encoding: 7bit
Lines: 109
Message-ID: <AT4wh.23898$yC5.10103@newssvr27.news.prodigy.net>
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X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr27.news.prodigy.net 1170266720 ST000 12.72.133.160 (Wed, 31 Jan
2007 13:05:20 EST)
NNTP-Posting-Date: Wed, 31 Jan 2007 13:05:20 EST
Organization: SBC http://yahoo.sbc.com
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WG__LG@VVOIPLIGX\
\BU_B@\P\PFX\B[APHTWAHDCKJF^NHD[YJAZMCY_CWG[SX\Y]^KC\HSZRWSWKGAY_PC[BQ[BXAS\F\
\@DMTLFZFUE@\VL
Date: Wed, 31 Jan 2007 18:05:20 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8884

Ian White GM3SEK wrote:
>
> Someone has asked my magazine column where the name "hybrid coupler"
> came from; and why do some people reserve the name "hybrid" for only
> certain types of couplers?
>
> That isn't as easy a question as it first seems. Everybody seems to talk
> about "hybrids" but few authors are prepared to define exactly what it
> means - much less explain why.
>
> The following is a draft outline for my magazine article. It looks much

> more authoritative than I actually feel about the subject - especially
> about the origins of the term "hybrid", so I would welcome any comments...
>
>
> Hybrid is originally a biological term for a "cross-breed" that inherits
> different characteristics from two different kinds of parents. The word
> has then taken on a much wider sense - for example, we talk about
> "hybrid road vehicles" or "hybrid analogue/digital systems".
>
> However, a "hybrid coupler" is a much more specific term, which came
> from the early days of landline telephony. Originally, a two-conductor
> line could only be used in one direction at a time; but with a hybrid
> coupler [Figure] at both ends, that single line can be used for full
> duplex communication in both directions. An important feature is that
> the coupler provides isolation between the links in opposite directions
> [insert more description here, including bidirectional amplifiers].
>
> So why was this device specifically called a "hybrid" coupler? There's
> nothing particularly hybrid about the coupler, so my best guess is that
> the word originally applied to the communication link - the
> bidirectional offspring of two unidirectional parents. But in the
> strange way that technical language evolves, "duplex" has become the
> common word for a bidirectional link, while "a hybrid" has come to mean
> the coupler itself. The same word has then been applied to RF couplers
> that share some of the characteristics of the original telephone hybrid.
>
> The best descriptions of RF hybrid couplers I've been able to find on
> the web are in:
> http://en.wikipedia.org/wiki/Power_dividers_and_directional_couplers
> and:
> http://www.rfcafe.com/references/electrical/directional%20coupler.htm
>
> In RF engineering the name "hybrid" has become attached to the 4-port
> coupler in [Figure]. When ports 2, 3 and 4 are matched, the input power
> at port 1 is divided equally between ports 2 and 3, with a phase shift
> of 90deg between the two output ports. Since half the input power
> appears at each output port, the transmission loss to each individual
> port is 3dB, so this device is sometimes called 3dB coupler. The reason
> why this device is called a hybrid is because of the port-to-port
> isolation it provides. In the matched condition, ports 2 and 3 are
> isolated from each other, and port 4 is isolated from port 1. [Add more
> details of the 3dB/ 90deg/quadrature coupler configuration.]
>
> However, the Wikipedia author(s) also point out that nowadays "any
> matched 4-port with isolated arms and equal power division is called a
> hybrid or hybrid coupler." This wider definition also includes 0deg
> hybrids and 180deg hybrids, in addition to the original 90deg variety.
> Some 3-port devices are also called hybrids because they provide
> isolation between the output ports and have a 'virtual' internal 4th
> port, an example being the Wilkinson 0deg power divider.
>
> Of course, some devices that do not meet every part of the above
> definition may still be called "hybrids" in practice. And a device that

> offers port-to-port isolation is likely to have other names as well, eg
> it may be called a "bridge". Are we confused enough yet?
>
> Originally all these definitions were also restricted to passive linear
> devices, but as op-amps get faster and faster, and move up into the RF
> domain, it becomes possible to create the same port-to-port behaviour
> using active devices. It is now possible to build active hybrids that
> can operate up to at least 100MHz, and their advantage over
> transformer-based hybrids is that they have no lower-frequency limit.
> However, any hybrid still has to be a linear device.
>
> [More to add...]
>
>
>
> How does that look, as a first draft? I would particularly appreciate
> comments on the probable history of the word "hybrid" in telephony and
> electronics.
>
>
>
>
>

Hi Ian,

A hybrid coil in telephony was (is?) used to couple a 2 wire line to a 4 wire line allowing bidirectional amplification. If you have access to Reg's old bible _Communication Engineering_ by William Everitt you can read an explanation of how this works starting on page 317 (second edition).I suppose the term "hybrid" refers to the fact that two different types of line (2 wire and 4 wire) are involved.

From _Microwave Engineering Using Microstrip Circuits_ by Fooks and Zakarevicius: "Hybrid couplers may be regarded as directional couplers which can produce an equal power split between the output ports. This definition is good in the main, but it is possible to have hybrids with unequal power split. Inherently, a hybrid and a directional coupler are the same type of device. The only difference is really one of construction, with the hybrid-line coupler historically arising out of structures which aimed to produce equal power splitting with good isolation, directional coupling aspects not being of interest."

73,
Tom Donaly, KA6RUH

```
From 9098907783704306930
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v45g2000cwv.googlegroups.com!not-for-
mail
```

From: eternalsquire@comcast.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 31 Jan 2007 11:07:18 -0800
Organization: http://groups.google.com
Lines: 182
Message-ID: <1170270438.707613.277670@v45g2000cwv.googlegroups.com>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
   <45ba4491$0$171$540ea2cf@novia.net>
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   <45bae4f5$0$172$540ea2cf@novia.net>
   <cUBuh.75$iB7.179326@news.sisna.com>
   <3p1nr2hlrmgo05g8c05me802tisusehs37@4ax.com>
   <EWLuh.175$3d.227432@news.sisna.com>
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   <lucvh.97$Hq2.105576@news.sisna.com>
   <QHovh.4$2g.126076@news.sisna.com>
   <1170092149.128348.163870@v33g2000cwv.googlegroups.com>
   <TPudnQaOWZuEByPYnZ2dnUVZ_uXinZ2d@velocitywest.net>
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Complaints-To: groups-abuse@google.com
Injection-Info: v45g2000cwv.googlegroups.com; posting-host=67.142.130.17;
   posting-account=RyqjfwwAAADvOapQHMNoJI3nvO5uDrpo
Xref: g2news2.google.com rec.radio.amateur.homebrew:8885

Looks like I have a reprieve. Today is considered a half day for student due to snow, so my presentation got cancelled. Which is a good thing too, cause I'm quite unprepared for it.

Being the only Extra, let alone ham, in the area is a very overwhelming feeling.

This whole thing needs to be rethought anyway. If anyone has bits and pieces of working homebrew I can borrow, say yes here and I will contact you privately.   My own homebrew is just not working today worth a darn.

The Eternal Squire

On Jan 31, 10:20 am, eternalsqu...@comcast.net wrote:

> HP,
>
> The whole point of my original post was to see if forming a micropower
> net on 80M COULD be done within the rules.   I would indeed be a poor
> mentor
> for encouraging students to break the rules... and I never advocated
> such. Please speed-read what I post a little slower next time :)
>
> Today I make my first presentation, and I have a pretty bad cold.
> I don't have any Mr. Wizard exhibits put togther, just the equivalent
> of a slide show plus a few parts, because I only have a week's notice.
>
> I am changing tack and taking my radio with me to the classroom,
> if the students are really interested I will lend the classroom my rig
> until
> a replacement can be build or bought, and be with them for a couple
> hours per week as control operator.   The science teacher has
> promised it could be connected outside to a wire antenna of some type
> if at all possible.
>
> So wish me luck, and please use my handle on Usenet rather than
> my name from now on.   I'd rather not be made by some determined
> lunatic intent on causing me or my family any harm.
>
> On Jan 30, 8:46 pm, "H. P. Friedrichs" <nos...@please.com> wrote:
>
> > Very well.
>
> > Andrew,
>
> > A few thoughts about your idea and some of the responses that it has evoked:
>
> > First off, I don't think your emphasis should be on transmitting. To me,
> > ham radio is about communication, and communication, first and foremost,
> > is about LISTENING. Listening is what you should emphasize.
>
> > Since there are both physical laws of nature and interference (natural
> > and man-made) to contend with, the real magic in radio is the antenna,
> > amplifier(s), filter(s), and operator techniques used to extract useful
> > information from a feeble signal. (Case in point: Voyager 1 is now more
> > than 9 BILLION miles from earth, but as long as its flea-power
> > transmitter holds out, we expect to be able to continue receiving data.)
>
> > There is great fun in building simple receivers, and much to be learned.
> >   A few years back, for lack of something better to do one evening, I
> > knocked together a regenerative set on the bench top in the garage. I
> > wound a coil on a toilet paper tube, made a grid-leak capacitor out of a
> > couple of microscope slides and some foil, and hooked up an old #26
> > tetrode. The rig was "wired" with alligator leads and powered by
> > flashlight batteries. The antenna was 15 feet of wire thumb tacked to
> > the garage ceiling, and the ground was a 'gator clip attached to the
> > cover plate screw of a nearby outlet. A few adjustments later and I
> > found myself listening to a radio-theater presentation of "Dracula" put

> > on by the BBC in London. That's more than 5000 miles from where I live.
> > That's magic.
>
> > In your case, a FET based regenerative set would be the ticket. Dirt
> > cheap and effective enough to be useful. (I'm thinking something along
> > the lines of 1 FET RF/isolation, 1 FET regen stage, and an LM386 amp
> > chip, which will easily drive common walkman-style headphones.)
>
> > If you want to teach your kids Morse, use the Code Quick method. Buy a
> > copy of a program called Numorse for yourself, and use this to generate
> > exercises for the kids. You can put the audio on cassette tape or CD's.
> >   When they get up to 5 WPM or so, you have them listen to W1AW. The day
> > after a W1AW session you ask the kids some specific question about the
> > text that was sent the previous night. Offer prizes or some kind of
> > encouragement for positive responses. Once they can receive Morse,
> > learning to send is rather easy.
>
> > This is something of a detour, but have you ever heard recordings of
> > sounds the Ionosphere makes? Remarkable chirps, whistles, clicks, and
> > pops. Slow down the recordings and you get sounds that are startlingly
> > similar to the songs of certain birds, or the calls of whales. The
> > equipment to capture this is cheap and easy to build. This is one
> > situation where a remote location is a real asset, because there is far
> >   less man-made electrical noise to foul your recordings. Get a kid
> > hooked on something like this, and who knows what kind of scientific or
> > technical career could develop from this experience.
>
> > If you insist on transmitting, or equipping your students to transmit
> > before they even have the skills to do so properly, fine, so long as you
> > are certain that your activities are within the boundaries of the law.
> > With regard to the comments of some in this thread I will simply say
> > that the last thing society needs is a "mentor" whose first lesson will
> > essentially be: "If you don't like the rules just ignore them." I am of
> > the opinion that the preponderance of this attitude is responsible for
> > much of the unhappiness in this world.
>
> > Final thought. I few years back I authored a book on the subject of
> > primitive radio, and how to build radio components from scratch. This
> > includes homemade variable capacitors, tuning coils, detectors, and even
> > headphones. The equipment is built with hand tools and made from such
> > mundane source material as wood, tin cans, cabinet magnets, and
> > cigarette lighter parts.
>
> > Web link: http://www.hpfriedrichs.com/bks-votc.htm
>
> > This book has been critically acclaimed by the editors of QST and
> > Practical Wireless in the U.K., and is recommended by at least one
> > teacher's guide:http://www.libraryvideo.com/guides/N7003.pdf?
mscssid=B7EATDCXALG28J0F...
>
> > I am sensitive to educational and charitable concerns. If you should
> > express serious interest in using these in a classroom setting, we could
> > discuss how to make this happen.

>
> > 73
>
> > H P "Pete" Friedrichs
> > AC7ZL
>
> > eternalsqu...@comcast.net wrote:
> > > The why not say it here?
>
> > > The Eternal Squire
>
> > > On Jan 29, 6:06 pm, "H. P. Friedrichs" <nos...@please.com> wrote:
>
> > >>Squire---
>
> > >>I tried to email you....it bounced back.
>
> > >>Pete
> > >>AC7ZL
>
> > >>eternalsqu...@comcast.net wrote:
>
> > >>>The Dine' (I use the term Navajo because most people outside are
> > >>>more familiar with that) are a very proud people who would resent
> > >>>being made fun of like that.
>
> > >>>To the Dine', we are an alien people out of touch with the
> > >>>rhythms of the land, who are obsessed with consumer goods,
> > >>>technology, money, or bigotry.   Even such whites are ourselves
> > >>>who do see what history has done to the Dine' and find it
> > >>>appalling, are viewed as possibly having egotism.
>
> > >>>The Dine' are more impressed by whites who listen first then
> > >>>act later in small ways that fit what the Dine' already do.
>
> > >>>You have to live with the Dine' least a couple years before you
> > >>>can even begin to understand the challenge of introducing a
> > >>>new technology in a culturally appropriate manner.
>
> > >>>The Eternal Squire
>
> > >>>On Jan 29, 8:50 am, "RST Engineering" <j...@rstengineering.com> wrote:
>
> > >>>>That's true. They sent one kid off to MIT and he came back with a degree in
> > >>>>Electrical Engineering. When he got back home he found that the communal
> > >>>>restroom had no lights, so to show his gratitude to the tribe he ran
> > >>>>electricity to the bathroom.
>
> > >>>>So far as we know, that was the first Indian ever to wire a^head for a
> > >>>>reservation.
>
> > >>>>{;-)

```
>
> > >>>>Jim
>
> > >>>>"John Smith I" <assemblywiz...@gmail.com> wrote in
messagenews:lucvh.97$Hq2.105576@news.sisna.com...
>
> > >>>>>Some reservations have sent men to the best colleges and have some of the
> > >>>>>best attorneys in the world.




From -868359461024719378
X-Google-Thread: fc2a5,1fdda873784087dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!84ef5383!not-for-mail
From: "Brian" <kb9bvn@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1170079761.013134.323880@l53g2000cwa.googlegroups.com>
<F%0wh.19002$w91.475@newsread1.news.pas.earthlink.net>
<9K2wh.400$6z6.31@newsfe06.lga>
Subject: Re: Two QRP questions, one easy, the other, tricky...
Lines: 38
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <ii6wh.21413$X72.19578@newsread3.news.pas.earthlink.net>
Date: Wed, 31 Jan 2007 19:42:06 GMT
NNTP-Posting-Host: 76.2.192.200
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1170272526 76.2.192.200 (Wed, 31 Jan
2007 11:42:06 PST)
NNTP-Posting-Date: Wed, 31 Jan 2007 11:42:06 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8886

My company doesn't charge for shipping.  We're surplus new old stock....the
selection isn't huge but it's cheap.

http://www.hamradparts.com




"xpyttl" <xpyttl_NOSPAM@earthling.net> wrote in message
news:9K2wh.400$6z6.31@newsfe06.lga...
> "Brian" <kb9bvn@earthlink.net> wrote in message
> news:F%0wh.19002$w91.475@newsread1.news.pas.earthlink.net...
>
```

```
>> it though. If it doesn't work, a handful of PN2222's can be had for less
>> than a couple of bucks.
>
> BG Micro has the metal ones, that you tend to use in the final, for a
> quarter, the plastic ones you use for anything else for 6 cents.  They
> have surface mount MMBT2222A's for 4 cents.
>
> 2N2222's are handy little transistors that show up everywhere, and any
> time you need any old NPN, a 2N2222 will generally do, so it never hurts
> to have a few hundred in the parts drawer.  And at $6/100, it doesn't hurt
> the wallet all that bad, either.
>
> Of course, BG shipping to merrie auld England probably isn't all that
> pretty, but Farnell or some other local supplier must have something
> comparable.  I'm sure there must be a BC equivalent ... I bet if you found
> the cheapest NPN it would be the same thing.  You might shoot off a note
> to George or Ian, or perhaps take a peek at the G-QRP's Circuit Handbook.
> They seem to love the daylights out of the BC108, so I bet it is
> comparable (although I don't have any data on that to compare).
>
> ..
>
>
>
```

```
From 1209856034116930243
X-Google-Thread: fc2a5,1fdda873784087dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!homer!news.glorb.com!news-
spur1.glorb.com!news.glorb.com!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe04.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1170079761.013134.323880@l53g2000cwa.googlegroups.com>
<F%0wh.19002$w91.475@newsread1.news.pas.earthlink.net>
<9K2wh.400$6z6.31@newsfe06.lga>
<ii6wh.21413$X72.19578@newsread3.news.pas.earthlink.net>
Subject: Re: Two QRP questions, one easy, the other, tricky...
Lines: 51
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <Kp7wh.42$mv7.27@newsfe04.lga>
X-Trace:
noffecneefnkbhgflhbgfpgcdpepfmkgpajdkinjhhkacgbcnicfceledepkikoolhlefpnpglhfdcnhpb
mmfhacoiihpbjcgdpklbagjikbenhcjaafepkolemkobcoollnekbclkhfkbie
NNTP-Posting-Date: Wed, 31 Jan 2007 13:58:18 MST
```

Date: Wed, 31 Jan 2007 15:58:09 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8887

Hi Brian .... I think I've seen that call on QRP-L or maybe the Microchip forum.

If you're willing to ship to mister35mm and you got 'em for $6/100, $1/5 in the TO18, that's pretty darn hard to beat

..

"Brian" <kb9bvn@earthlink.net> wrote in message
news:ii6wh.21413$X72.19578@newsread3.news.pas.earthlink.net...
> My company doesn't charge for shipping. We're surplus new old
> stock....the selection isn't huge but it's cheap.
>
> http://www.hamradparts.com
>
>
>
> "xpyttl" <xpyttl_NOSPAM@earthling.net> wrote in message
> news:9K2wh.400$6z6.31@newsfe06.lga...
>> "Brian" <kb9bvn@earthlink.net> wrote in message
>> news:F%0wh.19002$w91.475@newsread1.news.pas.earthlink.net...
>>
>>> it though. If it doesn't work, a handful of PN2222's can be had for less
>>> than a couple of bucks.
>>
>> BG Micro has the metal ones, that you tend to use in the final, for a
>> quarter, the plastic ones you use for anything else for 6 cents. They
>> have surface mount MMBT2222A's for 4 cents.
>>
>> 2N2222's are handy little transistors that show up everywhere, and any
>> time you need any old NPN, a 2N2222 will generally do, so it never hurts
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>> hurt the wallet all that bad, either.
>>
>> Of course, BG shipping to merrie auld England probably isn't all that
>> pretty, but Farnell or some other local supplier must have something
>> comparable. I'm sure there must be a BC equivalent ... I bet if you
>> found the cheapest NPN it would be the same thing. You might shoot off a
>> note to George or Ian, or perhaps take a peek at the G-QRP's Circuit
>> Handbook. They seem to love the daylights out of the BC108, so I bet it
>> is comparable (although I don't have any data on that to compare).
>>
>> ..
>>
>>
>>
>
>

```
From -8591146760628071168
X-Google-Thread: fc2a5,8425b2cad2e3671c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 31 Jan 2007 15:26:29 -0600
Date: Wed, 31 Jan 2007 22:26:49 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla Thunderbird 1.0.2 (X11/20050322)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: When is a hybrid not a hybrid?
References: <Jxv0GDRFELwFFAt9@ifwtech.co.uk>
In-Reply-To: <Jxv0GDRFELwFFAt9@ifwtech.co.uk>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <pr-dnTZZopAblFzYnZ2dnUVZ8tWnnZ2d@pipex.net>
Lines: 11
NNTP-Posting-Host: 71.107.26.158
X-Trace: sv3-
GIkEmjryXqY+K7ZkuqnIld0Zn4rlPlrebBaEFHNE8jHfgKSyPqSIAv3YQG+PYLnDv2kretyhZVHmgqG!
99K2OP8tH2oYmVkCebI1ojzkAO2IvV11XCRCkOGDxZl2NHn+zwxCMsZD8COixReTkpNtsrvKFv6i!7hyH/
1cbvNyti6vbG8YaFGKVPw==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8888
```

Ian White GM3SEK wrote:

> The best descriptions of RF hybrid couplers I've been able to find on
> the web are in:
> http://en.wikipedia.org/wiki/Power_dividers_and_directional_couplers
> and:
> http://www.rfcafe.com/references/electrical/directional%20coupler.htm

=============

Ian , tnx for the above references , they are excellent learning options.

Frank   KN6WH /GM0CSZ

```
From 2506746123098756045
X-Google-Thread: fc2a5,8425b2cad2e3671c
X-Google-Attributes: gidfc2a5,public
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 31 Jan 2007 16:02:32 -0600
From: Gary Schafer <gaschafer@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: When is a hybrid not a hybrid?
Date: Wed, 31 Jan 2007 17:02:40 -0500
Message-ID: <6u32s291ljmin3usob7tnibi6bbeoo1o0s@4ax.com>
References: <Jxv0GDRFELwFFAt9@ifwtech.co.uk>
X-Newsreader: Forte Free Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 99
NNTP-Posting-Host: 75.74.131.91
X-Trace: sv3-
LpbqINBLaBi5fWTIIdnT8a92sCdUK9Znb+H2CKW+tte08KmtAGqIt6j9OpwmlcJ0Ff4U2PgJ9IYHwRB!
YhSS5oNC38xk4sdctvMjUP1tehKGmlhRxD49qEgEUvI/AP+rwPcUMy4xoG03547NQPVdKaiMiVx8!
UixBF+ap75Y=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8890

Hi Ian,

Hybrid in biological terms I believe means that it can not reproduce
itself. Plants from Hybrid seeds can only be grown from the original
seeds.
I would guess that the relationship to the hybrid coil would have to
do with the isolation between ports,,, can't be reproduced from port
to port only from the original or single port.

73
Gary K4FMX

On Wed, 31 Jan 2007 15:08:53 +0000, Ian White GM3SEK
<gm3sek@ifwtech.co.uk> wrote:

>
>Someone has asked my magazine column where the name "hybrid coupler"
>came from; and why do some people reserve the name "hybrid" for only
>certain types of couplers?
>
>That isn't as easy a question as it first seems. Everybody seems to talk
>about "hybrids" but few authors are prepared to define exactly what it
>means - much less explain why.

>
>The following is a draft outline for my magazine article. It looks much
>more authoritative than I actually feel about the subject - especially
>about the origins of the term "hybrid", so I would welcome any
>comments...
>
>
>Hybrid is originally a biological term for a "cross-breed" that inherits
>different characteristics from two different kinds of parents. The word
>has then taken on a much wider sense - for example, we talk about
>"hybrid road vehicles" or "hybrid analogue/digital systems".
>
>However, a "hybrid coupler" is a much more specific term, which came
>from the early days of landline telephony. Originally, a two-conductor
>line could only be used in one direction at a time; but with a hybrid
>coupler [Figure] at both ends, that single line can be used for full
>duplex communication in both directions. An important feature is that
>the coupler provides isolation between the links in opposite directions
>[insert more description here, including bidirectional amplifiers].
>
>So why was this device specifically called a "hybrid" coupler? There's
>nothing particularly hybrid about the coupler, so my best guess is that
>the word originally applied to the communication link - the
>bidirectional offspring of two unidirectional parents. But in the
>strange way that technical language evolves, "duplex" has become the
>common word for a bidirectional link, while "a hybrid" has come to mean
>the coupler itself. The same word has then been applied to RF couplers
>that share some of the characteristics of the original telephone hybrid.
>
>The best descriptions of RF hybrid couplers I've been able to find on
>the web are in:
>http://en.wikipedia.org/wiki/Power_dividers_and_directional_couplers
>and:
>http://www.rfcafe.com/references/electrical/directional%20coupler.htm
>
>In RF engineering the name "hybrid" has become attached to the 4-port
>coupler in [Figure]. When ports 2, 3 and 4 are matched, the input power
>at port 1 is divided equally between ports 2 and 3, with a phase shift
>of 90deg between the two output ports. Since half the input power
>appears at each output port, the transmission loss to each individual
>port is 3dB, so this device is sometimes called 3dB coupler. The reason
>why this device is called a hybrid is because of the port-to-port
>isolation it provides. In the matched condition, ports 2 and 3 are
>isolated from each other, and port 4 is isolated from port 1. [Add more
>details of the 3dB/ 90deg/quadrature coupler configuration.]
>
>However, the Wikipedia author(s) also point out that nowadays "any
>matched 4-port with isolated arms and equal power division is called a
>hybrid or hybrid coupler." This wider definition also includes 0deg
>hybrids and 180deg hybrids, in addition to the original 90deg variety.
>Some 3-port devices are also called hybrids because they provide
>isolation between the output ports and have a 'virtual' internal 4th
>port, an example being the Wilkinson 0deg power divider.

```
>
>Of course, some devices that do not meet every part of the above
>definition may still be called "hybrids" in practice. And a device that
>offers port-to-port isolation is likely to have other names as well, eg
>it may be called a "bridge". Are we confused enough yet?
>
>Originally all these definitions were also restricted to passive linear
>devices, but as op-amps get faster and faster, and move up into the RF
>domain, it becomes possible to create the same port-to-port behaviour
>using active devices. It is now possible to build active hybrids that
>can operate up to at least 100MHz, and their advantage over
>transformer-based hybrids is that they have no lower-frequency limit.
>However, any hybrid still has to be a linear device.
>
>[More to add...]
>
>
>
>How does that look, as a first draft? I would particularly appreciate
>comments on the probable history of the word "hybrid" in telephony and
>electronics.



From -7195232030894809948
X-Google-Thread: 1118be,5998ad86883aa65a,start
X-Google-Thread: fc2a5,5998ad86883aa65a,start
X-Google-Attributes: gid1118be,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p10g2000cwp.googlegroups.com!not-for-
mail
From: radioanarchy@yahoo.com
Newsgroups: sci.electronics.components,rec.radio.amateur.homebrew
Subject: MC1350   IC's
Date: 31 Jan 2007 14:06:17 -0800
Organization: http://groups.google.com
Lines: 8
Message-ID: <1170281177.260828.11580@p10g2000cwp.googlegroups.com>
NNTP-Posting-Host: 67.54.128.147
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170281182 25506 127.0.0.1 (31 Jan 2007 22:06:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 31 Jan 2007 22:06:22 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p10g2000cwp.googlegroups.com; posting-host=67.54.128.147;
   posting-account=e8wzcg0AAADtWQIKu0akZdsQFERkwOLB
Xref: g2news2.google.com sci.electronics.components:8967
rec.radio.amateur.homebrew:8891
```

I have a bunch (50?) of MC1350's

I think they are 45 MHZ TV IF Amps.

anybody need some?

. .

From -5308945109971577313
X-Google-Thread: fc2a5,33b958b226d42bd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s48g2000cws.googlegroups.com!not-for-mail
From: "Gus" <gusrego@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cutis Keyer CK-200 Vectronics Schematic Request
Date: 31 Jan 2007 14:30:51 -0800
Organization: http://groups.google.com
Lines: 9
Message-ID: <1170282651.629417.297580@s48g2000cws.googlegroups.com>
References: <1170231190.958901.229220@m58g2000cwm.googlegroups.com>
   <ZtCdnZZL6qCY6F3YnZ2dnUVZ_rWnnZ2d@comcast.com>
NNTP-Posting-Host: 68.59.71.32
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170282656 29103 127.0.0.1 (31 Jan 2007 22:30:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 31 Jan 2007 22:30:56 +0000 (UTC)
In-Reply-To: <ZtCdnZZL6qCY6F3YnZ2dnUVZ_rWnnZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; PPC Mac OS X; en) AppleWebKit/418.9.1 (KHTML, like Gecko) Safari/419.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s48g2000cws.googlegroups.com; posting-host=68.59.71.32;
   posting-account=Rfzs6Q0AAADUM5eKmRd9hGrPqxKx2uND
Xref: g2news2.google.com rec.radio.amateur.homebrew:8892

Thanks So much for your post. A lot of this info will come in handy..

Thanks again.

Gus Rego

From -7078989750094553181
X-Google-Thread: fc2a5,d33915a591873c51,start

X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: "Heriberto" <lu6dbu@tapalquenet.com.ar>
Newsgroups: rec.radio.amateur.homebrew
Subject: 3P41 Transmiting Tube Data Need
Date: Wed, 31 Jan 2007 20:06:12 -0300
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 5.00.2919.6600
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
NNTP-Posting-Host: $$6cknoaitsc1q.news.x-privat.org
Message-ID: <45c11e61_1@x-privat.org>
Organization: X-Privat NNTP Server - http://www.x-privat.org
X-Authenticated-User: $$l1dodqu9tn$idhdv-zi5hlm-q
X-Complaints-To: abuse@x-privat.org
Path: g2news2.google.com!news3.google.com!news1.google.com!news.germany.com!
aioe.org!newsfeed.x-privat.org!x-privat.org!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8893

Hi All:
I try found the data of 3P41 japan tube transmiting, but no hhave good luck.- Anyone have this data ? Tks in aadvance.-

REgards
Heriberto
LU6DBU

From -7825502800237528522
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.velocitywest.net!
news.velocitywest.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 31 Jan 2007 18:19:37 -0600
Date: Wed, 31 Jan 2007 17:19:36 -0700
From: "H. P. Friedrichs" <nospam@please.com>
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.13) Gecko/20060414
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<45ba4491$0$171$540ea2cf@novia.net>   <XTruh.23$0B6.97376@news.sisna.com>
<45bae4f5$0$172$540ea2cf@novia.net>   <cUBuh.75$iB7.179326@news.sisna.com>
<3p1nr2hlrmgo05g8c05me802tisusehs37@4ax.com>
<EWLuh.175$3d.227432@news.sisna.com>
<sejqr218eim6pdcr1ks1sfuo2h387bd4oc@4ax.com>

```
<lucvh.97$Hq2.105576@news.sisna.com>   <QHovh.4$2g.126076@news.sisna.com>
<1170092149.128348.163870@v33g2000cwv.googlegroups.com>
<TPudnQaOWZuEByPYnZ2dnUVZ_uXinZ2d@velocitywest.net>
<1170173007.622477.52390@s48g2000cws.googlegroups.com>
<ebqdnacqdpOKjF3YnZ2dnUVZ_sqdnZ2d@velocitywest.net>
<1170264053.144502.270820@p10g2000cwp.googlegroups.com>
In-Reply-To: <1170264053.144502.270820@p10g2000cwp.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <z-udnZNCIL-Er1zYnZ2dnUVZ_rylnZ2d@velocitywest.net>
Lines: 19
NNTP-Posting-Host: 216.183.70.9
X-Trace:
sv3-8nimyB87jxRIPxThA28CXKI8SY8WttCJ4hjPuZlneN1Cta7LaxH5Sn0XGUjwI9apJffY79HkYQQIbZ
1!CxZQlxTO/XdWK6GaRcamozdu742nYipf1cbKl7Xm+TWSEf71gcrpLvM4Hz/8+/evH12v36F88w2+!
09UBAW7C4ByA1c66LMNA4xvE
X-Complaints-To: abuse@velocitywest.net
X-DMCA-Complaints-To: abuse@velocitywest.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8895
```

eternalsquire@comcast.net wrote:

> HP,
>
> The whole point of my original post was to see if forming a micropower
> net on 80M COULD be done within the rules.   I would indeed be a poor
> mentor
> for encouraging students to break the rules... and I never advocated
> such. Please speed-read what I post a little slower next time :)

Squire,

With all due respect, you need to re-read *my* post. I never accused you of anything. Rather, I indicated up front that my comments were directed both to you and to others in this thread, some of whom have advocated an "it is easier to get forgiveness than permission" point of view. I think you've agreed that this is not appropriate for a mentor/teacher/role-model.

H. P. "Pete" Friedrichs
AC7ZL

```
From -1837749192215312113
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.velocitywest.net!
news.velocitywest.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 31 Jan 2007 19:21:53 -0600
```

Date: Wed, 31 Jan 2007 18:21:53 -0700
From: "H. P. Friedrichs" <nospam@please.com>
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.13) Gecko/20060414
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <cUBuh.75$iB7.179326@news.sisna.com>
<3p1nr2hlrmgo05g8c05me802tisusehs37@4ax.com>
<EWLuh.175$3d.227432@news.sisna.com>
<sejqr218eim6pdcr1ks1sfuo2h387bd4oc@4ax.com>
<lucvh.97$Hq2.105576@news.sisna.com> <QHovh.4$2g.126076@news.sisna.com>
<1170092149.128348.163870@v33g2000cwv.googlegroups.com>
<TPudnQaOWZuEByPYnZ2dnUVZ_uXinZ2d@velocitywest.net>
<1170173007.622477.52390@s48g2000cws.googlegroups.com>
<ebqdnacqdpOKjF3YnZ2dnUVZ_sqdnZ2d@velocitywest.net>
<epp4rb$6cb$1@theodyn.ncf.ca>
<1170264183.883906.282350@a34g2000cwb.googlegroups.com>
In-Reply-To: <1170264183.883906.282350@a34g2000cwb.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <YL-dnWK8A6As3VzYnZ2dnUVZ_sapnZ2d@velocitywest.net>
Lines: 37
NNTP-Posting-Host: 216.183.70.9
X-Trace: sv3-s5b9JhVWA3/IMYCBzF4iVIDsJEoDrJe/
T7bRdSLIwPGlqi4CF8+r7jTtW9vNMmoytPWdv6uuGZAu5xp!rTOWMKf/Yof5BxjG/
yy9ueAnfIcrhgZz2Pnm46dQZD6u0PGUwrRXxbq9l9uAekl8WN07U6MaDZFQ!
ayIAlBmakwgoHmaoLRgrdZyB
X-Complaints-To: abuse@velocitywest.net
X-DMCA-Complaints-To: abuse@velocitywest.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8896

eternalsquire@comcast.net wrote:

Squire-

I'm going to take your comment on face value and assume that your receiver is indeed functional but for lack of proper regeneration. If this is the case, I would guess that the most common cause of this kind of problem is improper phasing of your tuning/ticker coils.

It would help if you could post or point to a schematic from which you worked, but let me suggest this. Lift both leads from you tickler winding and then swap them. This may be all it takes to fix the problem.

BTW: Check out this simple receiver by Charles, N1TEV. It follows, more or less, the architecture I proposed, and apparently works well. PCBs are available.

http://www.electronics-tutorials.com/receivers/regen-radio-receiver.htm

Here is a simpler circuit by regenerative radio guru C. F. Rocky.

http://www.mines.uidaho.edu/~glowbugs/FETREGN2.gif

H.P. "Pete" Friedrichs
AC7ZL

> Well, I did try to build a regenerative receiver to demonstrate to the
> class,
> but I couldn't get regeneration. Shall I mail it to you to see if you
> can debug it?
>
> Thanks,
>
> The Eternal Squire
>

From 7864633482948360129
X-Google-Thread: fc2a5,2e6ed5ce79f489a8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!roadrunner.com!not-for-mail
Message-Id: <45c14997$0$5742$4c368faf@roadrunner.com>
From: JDB <me@here.now>
Subject: Re: Vista compatibility with APRSPoint
Newsgroups: rec.radio.amateur.homebrew
Reply-To: me@here.now
Date: Wed, 31 Jan 2007 20:59:51 -0500
References: <1170247158.438646.174980@a34g2000cwb.googlegroups.com>
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Lines: 19
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8897

The problem with APRSPoint is not the operating system. The problem is that the author and seller of the program does little to enhance the program. It does not meet the APRS spec and lacks functionality that is much needed to make this a full functioning APRS program. The author also sponsors a "support" group on Yahoo Groups. The problem with him and the group is that if you say anything critical of the program the author censors the post so no one else will get a bad impression - or should I say honest impression of the APRSPoint program. Be advised, until he starts fixing and

enhancing the program and accepts honest feedback in his forum, stay away
from this program. You can use AGWTracker, Xastir, WinAPRS and UI-View.

hxc98@yahoo.com wrote:

> We did extensive testing with APRSPoint on the new Vista OS, so far
> all functionalities worked with no problems. The usb/serial
> converter(IO Gear GUC232A) we used is also accepted by Vista using its
> XP driver. Vista seems to have good backward compatibility, and the
> interface looks nicer. Visit http://www.aprspoint.com for more details.

From -4577228682102183416
X-Google-Thread: fc2a5,1fdda873784087dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!84ef5383!not-for-mail
From: "Brian" <kb9bvn@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1170079761.013134.323880@l53g2000cwa.googlegroups.com>
<F%0wh.19002$w91.475@newsread1.news.pas.earthlink.net>
<9K2wh.400$6z6.31@newsfe06.lga>
<ii6wh.21413$X72.19578@newsread3.news.pas.earthlink.net>
<Kp7wh.42$mv7.27@newsfe04.lga>
Subject: Re: Two QRP questions, one easy, the other, tricky...
Lines: 66
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <Bhcwh.16978$pQ3.14259@newsread4.news.pas.earthlink.net>
Date: Thu, 01 Feb 2007 02:30:57 GMT
NNTP-Posting-Host: 76.2.192.200
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1170297057 76.2.192.200 (Wed, 31 Jan
2007 18:30:57 PST)
NNTP-Posting-Date: Wed, 31 Jan 2007 18:30:57 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8898

Ooops...free shipping to the US only...DX needs to pay the freight...but
there is no upcharge.

Sorry about that.

Yeah, I'm on the QRP-L.ORG list....not the QRP-L on qth.net

73 de KB9BVN

"xpyttl" <xpyttl_NOSPAM@earthling.net> wrote in message
news:Kp7wh.42$mv7.27@newsfe04.lga...
> Hi Brian .... I think I've seen that call on QRP-L or maybe the Microchip
> forum.
>
> If you're willing to ship to mister35mm and you got 'em for $6/100, $1/5
> in the TO18, that's pretty darn hard to beat
>
> ..
>
>
> "Brian" <kb9bvn@earthlink.net> wrote in message
> news:ii6wh.21413$X72.19578@newsread3.news.pas.earthlink.net...
>> My company doesn't charge for shipping. We're surplus new old
>> stock....the selection isn't huge but it's cheap.
>>
>> http://www.hamradparts.com
>>
>>
>>
>> "xpyttl" <xpyttl_NOSPAM@earthling.net> wrote in message
>> news:9K2wh.400$6z6.31@newsfe06.lga...
>>> "Brian" <kb9bvn@earthlink.net> wrote in message
>>> news:F%0wh.19002$w91.475@newsread1.news.pas.earthlink.net...
>>>
>>>> it though. If it doesn't work, a handful of PN2222's can be had for
>>>> less than a couple of bucks.
>>>
>>> BG Micro has the metal ones, that you tend to use in the final, for a
>>> quarter, the plastic ones you use for anything else for 6 cents. They
>>> have surface mount MMBT2222A's for 4 cents.
>>>
>>> 2N2222's are handy little transistors that show up everywhere, and any
>>> time you need any old NPN, a 2N2222 will generally do, so it never hurts
>>> to have a few hundred in the parts drawer. And at $6/100, it doesn't
>>> hurt the wallet all that bad, either.
>>>
>>> Of course, BG shipping to merrie auld England probably isn't all that
>>> pretty, but Farnell or some other local supplier must have something
>>> comparable. I'm sure there must be a BC equivalent ... I bet if you
>>> found the cheapest NPN it would be the same thing. You might shoot off
>>> a note to George or Ian, or perhaps take a peek at the G-QRP's Circuit
>>> Handbook. They seem to love the daylights out of the BC108, so I bet it
>>> is comparable (although I don't have any data on that to compare).
>>>
>>> ..
>>>
>>>
>>>
>>
>>

```
>
>



From 6120890449820303571
X-Google-Thread: fc2a5,5998ad86883aa65a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v33g2000cwv.googlegroups.com!not-for-
mail
From: sohosources@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MC1350 IC's
Date: 31 Jan 2007 19:26:49 -0800
Organization: http://groups.google.com
Lines: 19
Message-ID: <1170300409.495615.259190@v33g2000cwv.googlegroups.com>
References: <1170281177.260828.11580@p10g2000cwp.googlegroups.com>
NNTP-Posting-Host: 68.115.93.143
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170300414 10649 127.0.0.1 (1 Feb 2007 03:26:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 1 Feb 2007 03:26:54 +0000 (UTC)
In-Reply-To: <1170281177.260828.11580@p10g2000cwp.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v33g2000cwv.googlegroups.com; posting-host=68.115.93.143;
   posting-account=I-vAuA0AAAAZ7PxA-49vb1il6TsR1Pdd
Xref: g2news2.google.com rec.radio.amateur.homebrew:8899

On Jan 31, 4:06 pm, radioanar...@yahoo.com wrote:
> I have a bunch (50?) of MC1350's
>
> I think they are 45 MHZ TV IF Amps.
>
> anybody need some?
>

I'm interested in a half-dozen or so. Please forward details to
kirk@cloudnet.com.

Thanks,

--KK

P.S. Tried to reply privately, but your e-mail address came back as
malformed, etc...
```

From -5519652890661886422
X-Google-Thread: 1118be,5998ad86883aa65a
X-Google-Thread: fc2a5,5998ad86883aa65a
X-Google-Attributes: gid1118be,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!homer!news.glorb.com!news-spur1.glorb.com!news.glorb.com!news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!newsfe6-win.ntli.net.POSTED!53ab2750!not-for-mail
From: "ian field" <dai.ode@ntlworld.com>
Newsgroups: sci.electronics.components,rec.radio.amateur.homebrew
References: <1170281177.260828.11580@p10g2000cwp.googlegroups.com>
Subject: Re: MC1350   IC's
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <7Enwh.6725$fy5.1078@newsfe6-win.ntli.net>
Date: Thu, 01 Feb 2007 15:25:55 GMT
NNTP-Posting-Host: 62.253.114.208
X-Complaints-To: http://www.ntlworld.com/netreport
X-Trace: newsfe6-win.ntli.net 1170343555 62.253.114.208 (Thu, 01 Feb 2007 15:25:55 GMT)
NNTP-Posting-Date: Thu, 01 Feb 2007 15:25:55 GMT
Organization: ntl Cablemodem News Service
Xref: g2news2.google.com sci.electronics.components:8976 rec.radio.amateur.homebrew:8900

<radioanarchy@yahoo.com> wrote in message news:1170281177.260828.11580@p10g2000cwp.googlegroups.com...
>I have a bunch (50?) of MC1350's
>
> I think they are 45 MHZ TV IF Amps.
>
> anybody need some?
>
> . .
>

The data sheet hints at DC to 58MHz, interesting little chip with Gilbert cell AGC and differential inputs and outputs that can also be used in single ended configuration.

Since I started scrapping old F/H 5-1/4 hard drives that were laying about and forgotten I've found that some of these use this chip, I've liberated a few so far.

```
From -7318299587073051014
X-Google-Thread: fc2a5,8425b2cad2e3671c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j27g2000cwj.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: When is a hybrid not a hybrid?
Date: 1 Feb 2007 15:59:55 -0800
Organization: http://groups.google.com
Lines: 139
Message-ID: <1170374395.838360.237420@j27g2000cwj.googlegroups.com>
References: <Jxv0GDRFELwFFAt9@ifwtech.co.uk>
   <AT4wh.23898$yC5.10103@newssvr27.news.prodigy.net>
NNTP-Posting-Host: 64.12.116.135
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170374401 1465 127.0.0.1 (2 Feb 2007 00:00:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 2 Feb 2007 00:00:01 +0000 (UTC)
In-Reply-To: <AT4wh.23898$yC5.10103@newssvr27.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 Turboweb
[mtc-tf124 8.4.1], HTTP/1.1 cache-mtc-ac06.proxy.aol.com[400C7487] (Traffic-
Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: j27g2000cwj.googlegroups.com; posting-host=64.12.116.135;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:8901
```

From: "Tom Donaly" on Wed, Jan 31 2007 6:05 pm

>Ian White GM3SEK wrote:
>>
>> Someone has asked my magazine column where the name "hybrid coupler"
>> came from; and why do some people reserve the name "hybrid" for only
>> certain types of couplers?
>>
>> That isn't as easy a question as it first seems. Everybody seems to talk
>> about "hybrids" but few authors are prepared to define exactly what it
>> means - much less explain why.
>>
>> The following is a draft outline for my magazine article. It looks much
>> more authoritative than I actually feel about the subject - especially
>> about the origins of the term "hybrid", so I would welcome any comments...

...

>Hi Ian,

> A hybrid coil in telephony was (is?) used to couple a 2 wire line to a 4 wire line allowing bidirectional amplification. If you have access to Reg's old bible _Communication Engineering_ by William Everitt you can read an explanation of how this works starting on page 317 (second edition).I suppose the term "hybrid" refers to the fact that two different types of line (2 wire and 4 wire) are involved.

Hello Ian and Tom,

The mention of "Communication Engineering" by William Littell Everitt sparked my interest since it has prime occupancy on my Basics bookshelf space (the book and I were "born" in the same year...:-)

Going into the etymology of *ALL* "hybrids" in communications will probably focus not on "radio" but the common telephone handset and the long-distance, wired telephone system courtesy of remarkable innovation by the American Telephone and Telegraph laboratories. Note: I'm not waving a flag for "Americanism" only that the AT&T system grew to be huge early-on and also engineered for rather incredible longevity and good performance.

The common telephone set made here by the MILLIONs between the 1930s and 1970s period all had a "hybrid transformer" as its basic "coupler" to the telephone line, here a 2-wire balanced-pair to the central office. Mouthpiece and earpiece were actually isolated by this "hybrid" with a controlled leak-through to the earpiece for "sidetone" (a term that came from telephony as well). In addition, the "hybrid" coupled or isolated the 40 VDC (give or take) always present on our telephone lines and the 20 Hz Ring signal (with/without the hook switch cut-out). Added to that were a (somewhat) primitive "ALC" using thermistors-varistors to keep loud talkers from blasting ears of other users. Rather complex arrangement but very simple in terms of parts, rugged, long-lasting (better than 30 years life), and cost effective.

It would seem that the POTS hybrid scheme grew out of long-distance lines' repeater stations where two amplifiers were needed to boost signal strength both ways...AND provide a DC path for lots of different telco service needs. The concept of linearity through negative feedback was a direct result of "long-lines" repeater needs. A long-lines repeater "hybrid" seems to have evolved from the already-existing bridge circuit used for measurement of passive components. I say "seems" because both repeater hybrid and measurement bridges are configured for balance and "separation" of the components' characteristics. All of that took place at "audio" frequencies (under 15 KHz), including frequency-multiplexed SSB voice channels. Yes, "SSB" was pioneered by the various telephone companies in the world, on wire lines first, then on "radio." :-)

Segue to World War II and some massive head-scratching on both sides. "Radio" folks of older days may have encountered a "Magic-T" in waveguide, particularly at X-Band (3 cm or 8 to 12 GHz). A Magic-T is really a hybrid transformer equivalent, RF energy coming into a common port (inbound) is relatively isolated from RF energy into a 3rd port intended to go outbound. The fourth port is generally terminated in a resistive load for broadband balance but can also be used as a bidirectional port. "Isolation" is a result of good directional balance, a term that became common in the microwave field after WW2 and Isolators and Circulators came into being. Note: A "circulator" performs the same function as the old Magic-T but has a greater production yield, generally more compact.

The "rat-race hybrid" of all-coaxial lines probably evolved out of the Magic-T as a semi-broadband hybrid transformer but at RF lower than microwaves. It had limited use until Stripline and Microstrip was innovated. Most Rat-Races are still rather narrowband and incapable of working to octave bandwidths common to microwaves. With Stripline a whole vast array of "flat" configurations were innovated but all based on basic transmission line properties...including all the filter structures built entirely on PCBs.

Broad-banding at RF also had to wait for better powdered-iron and ferrite materials' better characteristics that came about after WW2. One offshoot of that was the broadband RF transformer that could have double decade bandwidth. Such RF transformers could be configured very much like the old POTS hybrid transformers. :-) Variants of those appeared in HF through UHF solid-state power amplifiers and "hot plug swapping" RF power amplifiers composed of many modules, each relatively isolated from one another. Does anyone working at RF not know about the "balun?" [broadband impedance-changing/isolating transformer]

It is my opinion that many, many terms became a sort of jargon or "tech-speak" for the simple reason of the names being short yet familiar to all working with a particular field. For example, it is much easier to say and pronounce "flip-flop" than the formal name of "Eccles-Jordan Bistable Multivibrator." :-) Folks in radio say "mike" for microphone or for microfarads of capacitance; what they are talking about does a subtle unconscious separation and ordering of the incoming information. There isn't much confusion about such jargon even if discussing 'condenser microphones.' :-)

Sometimes the jargon becomes over-used. I use the term "Wilkinson Power Divider" [or "Power Splitter"] for a familiar Stripline structure, yet I've heard and seen it described as a "Wilkinson Hybrid." While it is on the grey area of veddy proper useage, most RF folks know what either is. Editors writing for a large, unknown-technical-smarts-set readership do, understandably, get a bit under stress trying to Explain It All. [been there, done that, got a few T-shirts...:-)]

I would trace "hybrid" in electronics all the way back to the guy that invented the "Wheatstone Bridge." Wheatstone spoke and wrote about that clever thing so much that His name got stuck on the configuration, the real inventor's name got rather lost. Balance and isolation were essential there...and balance and isolation was necessary in the telephone "hybrid." Millions of telephone "hybrids" later, the jargon happened. The "hybrid" essential principles were applied to other fields within electronics and the rest is slightly confused history...:-)

Cheers,
LenAnderson@ieee.org

From -900809592797471871
X-Google-Thread: fc2a5,5998ad86883aa65a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h3g2000cwc.googlegroups.com!not-for-mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MC1350 IC's
Date: 1 Feb 2007 16:12:48 -0800
Organization: http://groups.google.com
Lines: 30
Message-ID: <1170375168.032461.114280@h3g2000cwc.googlegroups.com>
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Xref: g2news2.google.com rec.radio.amateur.homebrew:8902

On Jan 31, 7:26?pm, sohosour...@gmail.com wrote:
> On Jan 31, 4:06 pm, radioanar...@yahoo.com wrote:

>
> > I have a bunch (50?) of MC1350's
>
> > I think they are 45 MHZ TV IF Amps.
>
> > anybody need some?
>
> I'm interested in a half-dozen or so. Please forward details to
> k...@cloudnet.com.
>
> Thanks,

MC1350s are still being produced (!) and can be bought
from Jameco...www.jameco.com...$1.95 each, $1.85
quantities of 10. Jameco's catalog 271 has them as
"audio amplifiers"   :-)

Those are the plastic-packaged offspring of the original
Motorola MC1590, intended for any sort of RF amplifier-
with-DC-gain-control from low AF on up to 70, 80 MHz.
Differential input, differential output, gain control to
beyond 50 db, very good constant input impedance on
each input side. Open-collector on output so there is
good flexibility in its load configuration. Turns out they
also make good limiters.

LenAnderson@ieee.org

From -5719797864883017093
X-Google-Thread: fc2a5,8425b2cad2e3671c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
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Newsgroups: rec.radio.amateur.homebrew
References: <Jxv0GDRFELwFFAt9@ifwtech.co.uk>
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<1170374395.838360.237420@j27g2000cwj.googlegroups.com>
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Date: Fri, 2 Feb 2007 09:23:20 -0000
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X-Complaints-To: abuse@plus.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8903
```

<LenAnderson@ieee.org> wrote in message ......

Many thanks for a fascinating post, Len.

John A

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From -3218273961491289462
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X-Google-Language: ENGLISH,ASCII-7-bit
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newsfeed01.sul.t-online.de!t-online.de!news.germany.com!
feeder2.news.saunalahti.fi!feeder1.news.saunalahti.fi!reader1.news.saunalahti.fi!
53ab2750!not-for-mail
From: "Ceriel Nosforit" <ceriel@googlemail.com>
Subject: Aluminum can eclosure
Newsgroups: rec.radio.amateur.homebrew
Organization: Guerilla Computing
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MIME-Version: 1.0
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X-Trace: reader1.news.saunalahti.fi 1170423947 80.186.169.2 (Fri, 02 Feb 2007
15:45:47 EET)
NNTP-Posting-Date: Fri, 02 Feb 2007 15:45:47 EET
Xref: g2news2.google.com rec.radio.amateur.homebrew:8904
```

Quick, simple question:

Would a normal aluminum can be any good for RF shielding of a balun, or would it for some reason not work? Should I connect it to ground?

And;
What does a transmatch do for me that a normal balun/transformer won't do

for me?

Thank you for your time.
Sincerecly,
--
Nosforit

```
From -8494630218616251685
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p10g2000cwp.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: When is a hybrid not a hybrid?
Date: 2 Feb 2007 12:17:13 -0800
Organization: http://groups.google.com
Lines: 32
Message-ID: <1170447432.967066.92590@p10g2000cwp.googlegroups.com>
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Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: p10g2000cwp.googlegroups.com; posting-host=152.163.100.136;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:8905
```

On Feb 2, 1:23?am, "John A" <e455...@yahoo.co.uk> wrote:
> <LenAnder...@ieee.org> wrote in message ......
>
> Many thanks for a fascinating post, Len.
>
> John A

Thank you, but most of the thanks should go to a
gentleman at the Signal School that was in Fort
Monmouth, NJ, back in 1952. He had spent a lot

of his work time at Bell Labs. My MOS was Microwave Radio Relay in the Army and had to encompass comms techniques from landline telephone through radio at VHF to microwaves. Even more to a couple of GE technical reps who oversaw the installation of 24-voice-channel 1.8 GHz radio relay terminals in Japan '54 to '56. They had the knowledge at their mind's finger-tips and infused a number of us back then with some indelible information. :-)

If you wish to see a bit more of 50-year-old military communications, download:

http://sujan.hallikainen.org/BroadcastHistory/uploads/My3Years.pdf

It's about 6 MB and takes about 20 minutes on a dial-up connection. Hal has a lot of information collected there, not all of it on broadcasting.

LenAnderson@ieee.org

From 217539963150529559
X-Google-Thread: fc2a5,5998ad86883aa65a
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X-Google-Language: ENGLISH,ASCII-7-bit
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bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
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From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
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Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MC1350 IC's
References: <1170281177.260828.11580@p10g2000cwp.googlegroups.com>
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Lines: 29
Message-ID: <LRQwh.7417$pg2.3723@bignews2.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcbonikjophbnopooafmakdppnhpkmiolhflhh
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NNTP-Posting-Date: Fri, 02 Feb 2007 19:40:11 EST
Organization: BellSouth Internet Group

```
Date: Fri, 02 Feb 2007 19:40:12 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8906

LenAnderson@ieee.org wrote:
> On Jan 31, 7:26?pm, sohosour...@gmail.com wrote:
>> On Jan 31, 4:06 pm, radioanar...@yahoo.com wrote:
>>
>>> I have a bunch (50?) of MC1350's
>>> I think they are 45 MHZ TV IF Amps.
>>> anybody need some?
>> I'm interested in a half-dozen or so. Please forward details to
>> k...@cloudnet.com.
>>
>> Thanks,
>
>    MC1350s are still being produced (!) and can be bought
>    from Jameco...www.jameco.com...$1.95 each, $1.85
>    quantities of 10.  Jameco's catalog 271 has them as
>    "audio amplifiers"   :-)
>
>    Those are the plastic-packaged offspring of the original
>    Motorola MC1590, intended for any sort of RF amplifier-
>    with-DC-gain-control from low AF on up to 70, 80 MHz.
>    Differential input, differential output, gain control to
>    beyond 50 db, very good constant input impedance on
>    each input side.  Open-collector on output so there is
>    good flexibility in its load configuration.  Turns out they
>    also make good limiters.
>
>    LenAnderson@ieee.org
>
There was also the MC1351 which was a 'hotter'chip with more gain.


From 4924118735748672921
X-Google-Thread: fc2a5,c8833d0bb3e88142
X-Google-Attributes: gidfc2a5,public
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Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Aluminum can eclosure
References: <fgHwh.2140$%i7.1313@reader1.news.saunalahti.fi>
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NNTP-Posting-Date: Fri, 02 Feb 2007 21:12:35 EST
Organization: BellSouth Internet Group
Date: Fri, 02 Feb 2007 21:12:35 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8907

Ceriel Nosforit wrote:
> Quick, simple question:
>
> Would a normal aluminum can be any good for RF shielding of a balun, or
> would it for some reason not work? Should I connect it to ground?
>
> And;
> What does a transmatch do for me that a normal balun/transformer won't do
> for me?
>
> Thank you for your time.
> Sincerecly,
Well IF cans are made of aluminum so I would think a can would work
fine.  Normally one should keep the walls of the can some minimal
distance from the coil windings. IIRC the radius of the can should be
something like 2-3 times the dia. of the coil.


From 3055492375092601749
X-Google-Thread: 108122,498e5030dcf0b532,start
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X-Google-Language: ENGLISH,ASCII-7-bit
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53ab2750!not-for-mail
From: "Norm VE3CZI" <ve3czi@arrl.net>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.swap
Subject: FA:   Items of Interest for Auction
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
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Date: Fri, 2 Feb 2007 21:58:54 -0500
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EST)
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Xref: g2news2.google.com rec.radio.amateur.equipment:7995 rec.radio.amateur.homebrew:8908 rec.radio.swap:11190

Items for Auction:

Amprobe RS-3 Clamp-on Multi-meter:
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&ih=011&sspagename=STRK%3AMESE%3AIT&viewitem=&item=320077354256&rd=1&rd=1

Motorola SMARTNET Trunking Training Guide:
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&ih=011&sspagename=STRK%3AMESE%3AIT&viewitem=&item=320078044635&rd=1&rd=1

Heathkit HW-2036A 2 Meter Radio AS-IS:
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&ih=011&sspagename=STRK%3AMESE%3AIT&viewitem=&item=320077349244&rd=1&rd=1

Bendix King LPU Series UHF Portable Service Manual:
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&ih=011&sspagename=STRK%3AMESE%3AIT&viewitem=&item=320078041568&rd=1&rd=1

Telephone Crimp Tool for RJ-45 Connector:
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&ih=011&sspagename=STRK%3AMESE%3AIT&viewitem=&item=320077361996&rd=1&rd=1

Thank You for looking....Norm VE3CZI

From 7590844914138056543
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From: "mister35mm" <mister35mm@yahoo.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Two QRP questions, one easy, the other, tricky...
Date: 2 Feb 2007 21:23:07 -0800
Organization: http://groups.google.com
Lines: 33
Message-ID: <1170480187.735505.263030@v45g2000cwv.googlegroups.com>
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   <Bhcwh.16978$pQ3.14259@newsread4.news.pas.earthlink.net>
NNTP-Posting-Host: 81.174.187.191
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170480193 10908 127.0.0.1 (3 Feb 2007 05:23:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Feb 2007 05:23:13 +0000 (UTC)
In-Reply-To: <Bhcwh.16978$pQ3.14259@newsread4.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.9)
Gecko/20061206 (CK-Stumble) Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v45g2000cwv.googlegroups.com; posting-host=81.174.187.191;
   posting-account=CSEu3Q0AAADiuUUA3L3fZwUmzIFsNTF6
Xref: g2news2.google.com rec.radio.amateur.homebrew:8909
```

OK OK boys... yes I know 2n2222's are wonderful and plentiful, but I have a heap of geriatric bipolar power transistor I thought it might be worth experimenting with:-

2n3055 (three)

2n3054 (four)

2n3739 (two)

2n4800 (one)

Sony D292 U38 (two)

Sony 2sc895 (one)

I thought if you can get anything up to 500mW with a general purpose NPN, then what can you get out of an old power transistor?

I also have a load of BD139 medium-power transistors...?

Any thoughts?

In addition, I am still looking for the COMPONENT LAYOUT for the PCB for a QRP transmitter called "little joe" described in 9-81 in QST. I am not looking for just the circuit diagram but where the parts GO on the PCB!

Stephen G7VFY

07956-544202

```
From -719389170482054342
X-Google-Thread: fc2a5,c8833d0bb3e88142
```

X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l53g2000cwa.googlegroups.com!not-for-mail
From: "tack" <tack1@flash.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Aluminum can eclosure
Date: 2 Feb 2007 21:52:54 -0800
Organization: http://groups.google.com
Lines: 26
Message-ID: <1170481974.489150.178010@l53g2000cwa.googlegroups.com>
References: <fgHwh.2140$%i7.1313@reader1.news.saunalahti.fi>
   <ncSwh.45014$jA.40668@bignews1.bellsouth.net>
NNTP-Posting-Host: 68.92.234.110
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170481979 14990 127.0.0.1 (3 Feb 2007 05:52:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Feb 2007 05:52:59 +0000 (UTC)
In-Reply-To: <ncSwh.45014$jA.40668@bignews1.bellsouth.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l53g2000cwa.googlegroups.com; posting-host=68.92.234.110;
   posting-account=uKUyGwwAAAAkx11KnifX36YVybIZ6Qe1
Xref: g2news2.google.com rec.radio.amateur.homebrew:8910

On Feb 2, 8:12 pm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrote:
> Ceriel Nosforit wrote:
> > Quick, simple question:
>
> > Would a normal aluminum can be any good for RF shielding of a balun, or
> > would it for some reason not work? Should I connect it to ground?
>
> > And;
> > What does a transmatch do for me that a normal balun/transformer won't do
> > for me?
>
> > Thank you for your time.
> > Sincerecly,
>
> Well IF cans are made of aluminum so I would think a can would work
> fine. Normally one should keep the walls of the can some minimal
> distance from the coil windings. IIRC the radius of the can should be
> something like 2-3 times the dia. of the coil.

I believe that I've read that the distance from metallic objects
should, at a bare minimum, be at least 1/2 the coil diameter. So that
means 2 times minimum, giving 1/2 of coil diameter around the sides.
3 would be much better. Aluminum is good shielding material; onlt
thing better would be copper (or silver).

From -3514549522561594178
X-Google-Thread: fc2a5,7a3b556bcaab54b9,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l53g2000cwa.googlegroups.com!not-for-mail
From: "tack" <tack1@flash.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: zenith transoceanic battery packs
Date: 2 Feb 2007 21:57:03 -0800
Organization: http://groups.google.com
Lines: 7
Message-ID: <1170482223.513557.185420@l53g2000cwa.googlegroups.com>
NNTP-Posting-Host: 68.92.234.110
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170482232 15607 127.0.0.1 (3 Feb 2007 05:57:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Feb 2007 05:57:12 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l53g2000cwa.googlegroups.com; posting-host=68.92.234.110;
   posting-account=uKUyGwwAAAAkx11KnifX36YVybIZ6Qe1
Xref: g2news2.google.com rec.radio.amateur.homebrew:8911

I have a few of these radios; I'm wanting to put together some battery packs for them. Does anyone have a good schematic for a DC-DC converter to take 9vdc to 90vdc?
I'm also going to need to make up a 4-prong connector for the battery packs; any ideas anyone? Can the connectors be purchased? Thanks a lot

---

From 2606086553817889934
X-Google-Thread: fc2a5,8425b2cad2e3671c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q2g2000cwa.googlegroups.com!not-for-mail
From: "tack" <tack1@flash.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: When is a hybrid not a hybrid?
Date: 2 Feb 2007 22:27:16 -0800
Organization: http://groups.google.com
Lines: 43
Message-ID: <1170484036.926512.200460@q2g2000cwa.googlegroups.com>
References: <Jxv0GDRFELwFFAt9@ifwtech.co.uk>

```
   <AT4wh.23898$yC5.10103@newssvr27.news.prodigy.net>
   <1170374395.838360.237420@j27g2000cwj.googlegroups.com>
   <45c30319$0$8724$ed2619ec@ptn-nntp-reader02.plus.net>
   <1170447432.967066.92590@p10g2000cwp.googlegroups.com>
NNTP-Posting-Host: 68.92.234.110
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170484043 19770 127.0.0.1 (3 Feb 2007 06:27:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Feb 2007 06:27:23 +0000 (UTC)
In-Reply-To: <1170447432.967066.92590@p10g2000cwp.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET
CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q2g2000cwa.googlegroups.com; posting-host=68.92.234.110;
   posting-account=uKUyGwwAAAAkx11KnifX36YVybIZ6Qe1
Xref: g2news2.google.com rec.radio.amateur.homebrew:8912

On Feb 2, 2:17 pm, "LenAnder...@ieee.org" <LenAnder...@ieee.org>
wrote:
> On Feb 2, 1:23?am, "John A" <e455...@yahoo.co.uk> wrote:
>
> > <LenAnder...@ieee.org> wrote in message ......
>
> > Many thanks for a fascinating post, Len.
>
> > John A
>
>    Thank you, but most of the thanks should go to a
>    gentleman at the Signal School that was in Fort
>    Monmouth, NJ, back in 1952.  He had spent a lot
>    of his work time at Bell Labs.  My MOS was
>    Microwave Radio Relay in the Army and had to
>    encompass comms techniques from landline
>    telephone through radio at VHF to microwaves.
>    Even more to a couple of GE technical reps who
>    oversaw the installation of 24-voice-channel 1.8
>    GHz radio relay terminals in Japan '54 to '56.
>    They had the knowledge at their mind's finger-
>    tips and infused a number of us back then with
>    some indelible information.  :-)
>
>    If you wish to see a bit more of 50-year-old
>    military communications, download:
>
>    http://sujan.hallikainen.org/BroadcastHistory/uploads/My3Years.pdf
>
>    It's about 6 MB and takes about 20 minutes on a
>    dial-up connection.  Hal has a lot of information
>    collected there, not all of it on broadcasting.
>
>    LenAnder...@ieee.org
```

As is so often the case with word/phrase etymology, origins are sometimes cloudy. The wikipedia article alludes to this. But I believe the key is that the two outputs are equal in a so-called "hybrid". You might simply tell your readers in summary that the issue is unclear, and that you gave it the best shot anyone reasonably can.

```
From 2955844314913969478
X-Google-Thread: fc2a5,6bf887b0c893a47a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a34g2000cwb.googlegroups.com!not-for-mail
From: "tack" <tack1@flash.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: almost free: 10 Henry choke
Date: 2 Feb 2007 22:43:08 -0800
Organization: http://groups.google.com
Lines: 31
Message-ID: <1170484988.023277.150570@a34g2000cwb.googlegroups.com>
References: <1170090075.341098.157390@l53g2000cwa.googlegroups.com>
   <C1E3E89A.56A62%dbowey@comcast.net>
NNTP-Posting-Host: 68.92.234.110
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170485008 16460 127.0.0.1 (3 Feb 2007 06:43:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Feb 2007 06:43:28 +0000 (UTC)
In-Reply-To: <C1E3E89A.56A62%dbowey@comcast.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a34g2000cwb.googlegroups.com; posting-host=68.92.234.110;
   posting-account=uKUyGwwAAAAkx11KnifX36YVybIZ6Qe1
Xref: g2news2.google.com rec.radio.amateur.homebrew:8913
```

On Jan 29, 8:08 pm, Don Bowey <dbo...@comcast.net> wrote:
> On 1/29/07 9:01 AM, in article
> 1170090075.341098.157...@l53g2000cwa.googlegroups.com,
>
>
>
>
>
> "radioanar...@yahoo.com" <radioanar...@yahoo.com> wrote:
> > .....
>
> > cleaning out the heavy junk, from the junk box:

>
> > for beer money and postage:
>
> > a used Triad   "Filter Reactor"   "C19A"
>
> > 10 henries   105 ohms   300 mA   1 KV test insulation
>
> > 2.75 by 3   inch   mounting holes.
>
> > ......
>
> What is your general area/QTH?
>
> Don- Hide quoted text -
>
> - Show quoted text -

You sell it yet?

```
From -4387184407451033930
X-Google-Thread: 108122,498e5030dcf0b532
X-Google-Thread: fc2a5,498e5030dcf0b532
X-Google-Thread: 1109af,498e5030dcf0b532
X-Google-Attributes: gid108122,gidfc2a5,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newshub.sdsu.edu!news-
xxxfer.readnews.com!textspool1.readnews.com!news-out.readnews.com!
postnews3.readnews.com!news.coretel.net!not-for-mail
From: "Radiosrfun" <Radiosrfun@radiosrfun.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.swap
References: <YTSwh.3024$4Q2.2273@read1.cgocable.net>
Subject: Re: Items of Interest for Auction
Date: Sat, 3 Feb 2007 02:05:30 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Lines: 32
Message-ID: <45c43436$0$6837$ecde5a14@news.coretel.net>
Organization: CoreTel
NNTP-Posting-Host: 08924226.news.coretel.net
X-Trace: DXC=K?
>NlYE\7MoV7>`e^^@lgncYX6N<OEXQke^kb\c;G80glQB^`AXC[Ado;N16g=<O@jl5HgJkgMPJo
X-Complaints-To: abuse@coretel.net
Xref: g2news2.google.com rec.radio.amateur.equipment:7997
rec.radio.amateur.homebrew:8914 rec.radio.swap:11191
```

Norm,

```
Been posting for you - wanted to see about buying a couple manuals. your
ARRL address bounced when trying to reply from your site.

"Norm VE3CZI" <ve3czi@arrl.net> wrote in message
news:YTSwh.3024$4Q2.2273@read1.cgocable.net...
> Items for Auction:
>
> Amprobe RS-3 Clamp-on Multi-meter:
> http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&ih=011&sspagename=STRK%3AMESE%3AIT&viewitem=&item=320077354256&rd=1&rd=1
>
> Motorola SMARTNET Trunking Training Guide:
> http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&ih=011&sspagename=STRK%3AMESE%3AIT&viewitem=&item=320078044635&rd=1&rd=1
>
> Heathkit HW-2036A 2 Meter Radio AS-IS:
> http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&ih=011&sspagename=STRK%3AMESE%3AIT&viewitem=&item=320077349244&rd=1&rd=1
>
> Bendix King LPU Series UHF Portable Service Manual:
> http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&ih=011&sspagename=STRK%3AMESE%3AIT&viewitem=&item=320078041568&rd=1&rd=1
>
> Telephone Crimp Tool for RJ-45 Connector:
> http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&ih=011&sspagename=STRK%3AMESE%3AIT&viewitem=&item=320077361996&rd=1&rd=1
>
>
> Thank You for looking....Norm VE3CZI
>
>
>
>




From -9184452882089694863
X-Google-Thread: fc2a5,8b61067efcc50515
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p10g2000cwp.googlegroups.com!not-for-
mail
From: "tack" <tack1@flash.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FS: transmitter tube plate RF Chokes
Date: 2 Feb 2007 23:09:07 -0800
Organization: http://groups.google.com
Lines: 15
Message-ID: <1170486547.361774.44870@p10g2000cwp.googlegroups.com>
References: <1169943360.647517.17590@p10g2000cwp.googlegroups.com>
   <1169944514.591719.282370@q2g2000cwa.googlegroups.com>
NNTP-Posting-Host: 68.92.234.110
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170486552 20333 127.0.0.1 (3 Feb 2007 07:09:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Feb 2007 07:09:12 +0000 (UTC)
In-Reply-To: <1169944514.591719.282370@q2g2000cwa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET
CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p10g2000cwp.googlegroups.com; posting-host=68.92.234.110;
   posting-account=uKUyGwwAAAAkx11KnifX36YVybIZ6Qe1
Xref: g2news2.google.com rec.radio.amateur.homebrew:8915

On Jan 27, 6:35 pm, radioanar...@yahoo.com wrote:
> .
>
> OK, here is a picture.
>
> http://www.angelfire.com/de/RadioAnarchy/images/rfchoke.JPG
>
> surely somebody can use one of these in their boatanchor
> transmitter.  :-)
>
> --------

I'm making a 1930's style shortwave regen set; I think that I could
use some of these in it



From -6730953753754834499
X-Google-Thread: fc2a5,c8833d0bb3e88142
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!130.59.10.21.MISMATCH!
kanaga.switch.ch!switch.ch!newsfeed2.funet.fi!newsfeed1.funet.fi!
newsfeeds.funet.fi!feeder1.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!
not-for-mail
From: "Ceriel Nosforit" <ceriel@googlemail.com>
Subject: Re: Aluminum can eclosure
Newsgroups: rec.radio.amateur.homebrew
References: <fgHwh.2140$%i7.1313@reader1.news.saunalahti.fi>
     <ncSwh.45014$jA.40668@bignews1.bellsouth.net>
     <1170481974.489150.178010@l53g2000cwa.googlegroups.com>
Organization: Guerilla Computing
X-Face: 'BO/KG^w;,{wBozPy|^Wq~_NPJhKO0E/c9/wmO~};`Yg\g2;g4AAGqlwa^~Je7u6H$%*WEyP"}
{55=7!YAM/`0D~8)Y{+#?+ak;Gv__9WsE4QzeLAu0)n9e2Yd]02LZ-Vv&(&`=%
User-Agent: pan 0.115 (Mrs. Kerr Says Remember the Tip Jar)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
```

Lines: 18
Message-ID: <4g1xh.3032$a42.1263@reader1.news.saunalahti.fi>
Date: Sat, 03 Feb 2007 14:47:28 GMT
NNTP-Posting-Host: 80.186.169.2
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1170514048 80.186.169.2 (Sat, 03 Feb 2007 16:47:28 EET)
NNTP-Posting-Date: Sat, 03 Feb 2007 16:47:28 EET
Xref: g2news2.google.com rec.radio.amateur.homebrew:8916

Alas, on the wretched hour of Fri, 02 Feb 2007 21:52:54 -0800 tack thusly proclaimed:

<snip>

> I believe that I've read that the distance from metallic objects
> should, at a bare minimum, be at least 1/2 the coil diameter. So that
> means 2 times minimum, giving 1/2 of coil diameter around the sides.
> 3 would be much better. Aluminum is good shielding material; onlt
> thing better would be copper (or silver).

Guess I came up with a rather cheap alternative then. :D

Think newspaper, or any other kind of paper, would be good filling material to isolate the transformer from the aluminum can?

--
Nos

From 1158880695799350160
X-Google-Thread: 108122,498e5030dcf0b532
X-Google-Thread: fc2a5,498e5030dcf0b532
X-Google-Thread: 1109af,498e5030dcf0b532
X-Google-Thread: 106d41,258ec7a09ed2aa31,start
X-Google-Attributes: gid108122,gidfc2a5,gid1109af,gid106d41,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-online.de!news.germany.com!news.datemas.de!not-for-mail
From: "Radio Buff" <RB@nospam.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.swap,rec.radio.cb
Subject: Re: Items of Interest for Auction
Date: Sat, 3 Feb 2007 09:57:34 -0500
Organization: Radio Buff
Lines: 33
Message-ID: <eq27t7$iuh$1@news.datemas.de>
References: <YTSwh.3024$4Q2.2273@read1.cgocable.net>
X-Trace: news.datemas.de
48qnK9o3xsd1lGIn+55TVlzvY0MMBoKoQnpBTTVYPtpHN+lDluzR7AqmewceOC0muq+R9q3rbN8UDoRNHPEHEijxMZFcfbZ+NQpNDGZDrHyJELsobULQLWI8d4KT8rqZ8fsRYL5CWXo9fWLQInnYL4Zm1irpvUzXa6XJflfPtnE=

```
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Sat, 3 Feb 2007 14:57:43 +0000 (UTC)
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Priority: 3
X-MSMail-Priority: Normal
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Xref: g2news2.google.com rec.radio.amateur.equipment:7998
rec.radio.amateur.homebrew:8917 rec.radio.swap:11192 rec.radio.cb:25184


"Norm VE3CZI" <ve3czi@arrl.net> wrote in message
news:YTSwh.3024$4Q2.2273@read1.cgocable.net...
> Items for Auction:
>
> Amprobe RS-3 Clamp-on Multi-meter:
> http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&ih=011&sspagename=STRK%3AMESE%3AIT&viewitem=&item=320077354256&rd=1&rd=1
>
> Motorola SMARTNET Trunking Training Guide:
> http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&ih=011&sspagename=STRK%3AMESE%3AIT&viewitem=&item=320078044635&rd=1&rd=1
>
> Heathkit HW-2036A 2 Meter Radio AS-IS:
> http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&ih=011&sspagename=STRK%3AMESE%3AIT&viewitem=&item=320077349244&rd=1&rd=1
>
> Bendix King LPU Series UHF Portable Service Manual:
> http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&ih=011&sspagename=STRK%3AMESE%3AIT&viewitem=&item=320078041568&rd=1&rd=1
>
> Telephone Crimp Tool for RJ-45 Connector:
> http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&ih=011&sspagename=STRK%3AMESE%3AIT&viewitem=&item=320077361996&rd=1&rd=1
>
>
> Thank You for looking....Norm VE3CZI
>
>
>
>
This guy sells CB Radio amplifiers cheap!

www.telstar-electronics.com

Ask for the pornfessor.




From -913698718169521423
X-Google-Thread: fc2a5,c8833d0bb3e88142
X-Google-Attributes: gidfc2a5,public
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 03 Feb 2007 09:29:41 -0600
From: James M. Potter <jpotter@jpaw.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Aluminum can eclosure
Date: Sat, 03 Feb 2007 08:29:40 -0700
Message-ID: <r9a9s2dlhh2o4h988jlm5me5iuq3kcvrea@4ax.com>
References: <fgHwh.2140$%i7.1313@reader1.news.saunalahti.fi>
X-Newsreader: Forte Agent 4.2/32.1117
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 28
NNTP-Posting-Host: 69.254.137.241
X-Trace: sv3-YvFA/7kTe7fFcYEIdj1z/zx7RQTtH9aYy6Y4YhyifXlOEB/Ps6J/RHLD1QxkRFz3yNZnHg19miyLKGJ!WpOyD4saP3BA+NS0UIj/2eFfGk4yi1NyyBJDaxthl29YYhnT5Ap/ZfKfYJMGwxpKkFx3UDfBZ/9a!Mz7ubmuRiUSg
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8918

There are two things to keep in mind when you put a coil in a can.

1. The inductance will decrease due to the reduced voulme for the magnetic energy. This is the same effect as using a brass slug to change teh inductance of a coil for VHF applications.
2. The losses will increase due to the induced currents in the walls of the container.

The further away the walls are the lower the effect. The various rules of thumb you hear are just the result of someone determining what is acceptable.

73 de K9GXC, Jim

On Fri, 02 Feb 2007 13:45:47 GMT, "Ceriel Nosforit" <ceriel@googlemail.com> wrote:

>Quick, simple question:
>
>Would a normal aluminum can be any good for RF shielding of a balun, or
>would it for some reason not work? Should I connect it to ground?
>
>And;
>What does a transmatch do for me that a normal balun/transformer won't do
>for me?

>
>Thank you for your time.
>Sincerecly,

From 273602438556175683
X-Google-Thread: fc2a5,c8833d0bb3e88142
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!
216.77.188.37!bigfeed2.bellsouth.net!bigfeed.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bigfe9.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Aluminum can eclosure
References: <fgHwh.2140$%i7.1313@reader1.news.saunalahti.fi>
<r9a9s2dlhh2o4h988jlm5me5iuq3kcvrea@4ax.com>
In-Reply-To: <r9a9s2dlhh2o4h988jlm5me5iuq3kcvrea@4ax.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 39
Message-ID: <V12xh.4548$ch1.1321@bigfe9>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
okpbgeeoboblnbegbmeeaibeahllgefmomkjjhfdghcoccpdccpnhjpahnoajlomfmfeaflgjiklgkfinj
lijiknmibodmelofjhefebjhgeggadkckonbdakjeedbgi
NNTP-Posting-Date: Sat, 03 Feb 2007 10:40:37 EST
Organization: BellSouth Internet Group
Date: Sat, 03 Feb 2007 10:40:37 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8919

James M. Potter wrote:
> There are two things to keep in mind when you put a coil in a can.
>
> 1. The inductance will decrease due to the reduced voulme for the
> magnetic energy. This is the same effect as using a brass slug to
> change teh inductance of a coil for VHF applications.
> 2. The losses will increase due to the induced currents in the walls
> of the container.
>
What happens is that the metal acts as a shorted turn which absorbs some
of the current flowing in the inductor. A brass slug core inside the
coil takes advantage of this, the closer to the center of the coil the
greater the effect. The result is both a lowering of the inductance and
probably the Q. An effective way to tune vhf-uhf circuits, but a
shorted rotary turn was also used on the hf bands in "olden" days.
In the case of small tightly wound inductors with iron core slugs
the coupling from the shield can to the coil is rather small (ratio of

```
the turns and inductance) so the effect is small.

> The further away the walls are the lower the effect. The various rules
> of thumb you hear are just the result of someone determining what is
> acceptable.
>
> 73 de K9GXC, Jim
>
> On Fri, 02 Feb 2007 13:45:47 GMT, "Ceriel Nosforit"
> <ceriel@googlemail.com> wrote:
>
>> Quick, simple question:
>>
>> Would a normal aluminum can be any good for RF shielding of a balun, or
>> would it for some reason not work? Should I connect it to ground?
>>
>> And;
>> What does a transmatch do for me that a normal balun/transformer won't do
>> for me?
>>
>> Thank you for your time.
>> Sincerecly,


From 7915063750532821250
X-Google-Thread: fc2a5,c8833d0bb3e88142
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news2.google.com!news.germany.com!
newsfeed.freenet.de!border2.nntp.ams.giganews.com!nntp.giganews.com!
feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: "Ceriel Nosforit" <ceriel@googlemail.com>
Subject: Re: Aluminum can eclosure
Newsgroups: rec.radio.amateur.homebrew
References: <fgHwh.2140$%i7.1313@reader1.news.saunalahti.fi>
     <r9a9s2dlhh2o4h988jlm5me5iuq3kcvrea@4ax.com>
Organization: Guerilla Computing
X-Face: 'BO/KG^w;,{wBozPy|^Wq~_NPJhKO0E/c9/wmO~};`Yg\g2;g4AAGqlwa^~Je7u6H$%*WEyP"}
{55=7!YAM/`0D~8)Y{+#?+ak;Gv__9WsE4QzeLAu0)n9e2Yd]02LZ-Vv&(&`=%
User-Agent: pan 0.115 (Mrs. Kerr Says Remember the Tip Jar)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 25
Message-ID: <692xh.3099$a42.2678@reader1.news.saunalahti.fi>
Date: Sat, 03 Feb 2007 15:48:18 GMT
NNTP-Posting-Host: 80.186.169.2
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1170517698 80.186.169.2 (Sat, 03 Feb 2007
17:48:18 EET)
NNTP-Posting-Date: Sat, 03 Feb 2007 17:48:18 EET
Xref: g2news2.google.com rec.radio.amateur.homebrew:8920
```

Alas, on the wretched hour of Sat, 03 Feb 2007 08:29:40 -0700 James M. Potter thusly proclaimed:

> There are two things to keep in mind when you put a coil in a can.
>
> 1. The inductance will decrease due to the reduced voulme for the magnetic energy. This is the same effect as using a brass slug to change teh inductance of a coil for VHF applications.
> 2. The losses will increase due to the induced currents in the walls of the container.
>
> The further away the walls are the lower the effect. The various rules of thumb you hear are just the result of someone determining what is acceptable.

Ah, so if there's lots of noise where I put my transformer I'm better off taking a small hit to signal strength to still improve my s/n ratio, but if there's little noise I'd just be canceling out the weakest signals... Guess I'll have to try it with and without the can then to see if I've got lots of noise here. :)

Thanks for the reply.

--
Nos

From -615141918242756299
X-Google-Thread: fc2a5,c8833d0bb3e88142
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news2.google.com!news.germany.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Aluminum can eclosure
Date: 3 Feb 2007 16:10:41 GMT
Lines: 24
Message-ID: <slrnes9d01.2gs7.bit-bucket@shell.config.com>
References: <fgHwh.2140$%i7.1313@reader1.news.saunalahti.fi>
<ncSwh.45014$jA.40668@bignews1.bellsouth.net>
<1170481974.489150.178010@l53g2000cwa.googlegroups.com>
<4g1xh.3032$a42.1263@reader1.news.saunalahti.fi>
Reply-To: Reply to the .sig address <NOSPAM_bit-bucket@config.com>
X-Trace: individual.net XqBki7mMu16v6sUcOOjxcAl0pbLrIyO71kBXfTIfL/Q0Sgz82i
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8921

On Sat, 03 Feb 2007 14:47:28 GMT, Ceriel Nosforit wrote:
> Alas, on the wretched hour of Fri, 02 Feb 2007 21:52:54 -0800 tack thusly proclaimed:
>
><snip>

>
>> I believe that I've read that the distance from metallic objects
>> should, at a bare minimum, be at least 1/2 the coil diameter. So that
>> means 2 times minimum, giving 1/2 of coil diameter around the sides.
>> 3 would be much better. Aluminum is good shielding material; onlt
>> thing better would be copper (or silver).
>
> Guess I came up with a rather cheap alternative then. :D
>
> Think newspaper, or any other kind of paper, would be good filling
> material to isolate the transformer from the aluminum can?

Until it absorbs moisture.....

Jonesy

```
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    *** Killfiling google posts: <http://jonz.net/ng.htm>
```

```
From -4717913351837149638
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
news.bellsouth.net!newsfeed2.telusplanet.net!newsfeed.telus.net!paralynx!van-bc!
deep!not-for-mail
From: "JWJ" <jwhiskeyjack@cablerocket.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<B2Ouh.1652$4H1.913@newssvr17.news.prodigy.net>
Subject: Re: Where does part 97 end and part 15 begin?
Date: Sat, 3 Feb 2007 09:07:45 -0700
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 5.50.4133.2400
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
Lines: 90
Message-ID: <45c4b51f$0$23495$baae4c71@news.mindlink.net>
Organization: MIND LINK!
NNTP-Posting-Host: 64.178.153.126
X-Trace: 1170519327 news.mindlink.net 23495 64.178.153.126
X-Complaints-To: abuse@mindlink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8922
```

a cheap ready-made lofer coil is right in an old junker tv..the horizontal
output coil usually has a ferrite adjustment for frequency (horizontal
hold)... put another one in series with your 50 foot antenna, and tune that
as your load for increased output. I bet you can even use one for a cheapie
regen radio down there too...Hmmm time to visit the dump..
....

"N9WOS" <N9WOS@nobug.sbcglobal.net> wrote in message
news:B2Ouh.1652$4H1.913@newssvr17.news.prodigy.net...
>
> > I had thought to start an unlicensed micro-power code practice net
> > whose range would be limited to about a 30 mile radius, which is about
> > the size of the local reservation right next to the school.
> >
> > What I want to do is provide each kid with a popcorn CW transceiver for
> > the colorburst frequency (3579 khz), a key, a short random wire, and a
> > battery.   That way they could practice amongst themselves with
> > myself as occasional net control.
> >
> > My question is this: so long as final output to the antenna is within
> > the requirement of part 15 unlicensed operation, is part 15 unlicensed
> > operation allowed within a band normally governed under part 97?
> > Part 15 operation would easily cover a 30 mile radius on 80M.
> >
> > If no, I'll run the net under part 15 on the edge of the AM band near
> > 160M.
> >
> > Thanks in advance,
> >
> > The Eternal Squire
> >
>
> I have been thinking about this for a while before making this reply.
>
> I would strongly suggest looking at the lowfer band.
> 160Kc to 190Kc
> The limitations are relatively straight forward.
> Maximum length of feed line, and antenna are 15meters.
> Maximum power input to the final amp stage is 1W.
> No other real limitations besides the fact that out of band emissions have
> to be below a specific point.
>
> That is about a 50 foot long antenna. There isn't much of a chance that
they
> will try to string one up longer than that, unless they were really
> industrious.
> And they can learn about antenna loading, to get a better transmitted
> signal/range.
>
> The one watt input power level is easy to determine. If the input is 10V
> then adjust the current to a maximum of 100mA.
>
> They can use any mode of communication they want. CW, AM, SSB, FM, PSK31,
> BPSK, MFSK
> The sky is the limit as for as modes.
>
> If they have computers, most of the digital modes can be implemented with
> soundcard based communications software that is available as freeware
> Look up "MULTIPSK"

```
>
> They can set up beacons for propagation checks, or talk to each other in
> real time.
>
> 30 miles is an easy distance to reach with basic loaded antennas.
Especially
> with PSK31 and CW.
>
> It will allow them to learn how to build receiving antennas.
>
> And if they can't reach, or hear someone on the other side of the
> reservation, then it will allow them to learn the basics of traffic
handling
> by the stations in the middle relaying information from one station to
> another.
>
> It will also teach them the basics of the narrower bandwidth/greater range
> relationship. With the low bandwidth BPSK, PSK31 modes, they will easily
> communicate across the reservation even if they can barely hear each other
> on voice.
>
> You can either get kit equipment for receiving or transmitting, which is
> widely available on line. Or you can design and build your own.
>
> If they are lucky, they may even hear stations, and beacons from hundreds
of
> miles away. Or even thousands. There is nothing like the thrill of DX.
>
>
```

```
From -2783107037705507666
X-Google-Thread: fc2a5,7a3b556bcaab54b9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr23.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1170482223.513557.185420@l53g2000cwa.googlegroups.com>
Subject: Re: zenith transoceanic battery packs
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <sB2xh.3250$MN.2947@newssvr23.news.prodigy.net>
NNTP-Posting-Host: 70.142.62.252
```

```
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr23.news.prodigy.net 1170519512 ST000 70.142.62.252 (Sat, 03 Feb
2007 11:18:32 EST)
NNTP-Posting-Date: Sat, 03 Feb 2007 11:18:32 EST
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
Q[OERYWDPZRORRDXN[O@_WH@YR_B@EXLLBWLOOAFJYWZUYICD^RAQBKZQTZTX\_I[^G_KGFNON[ZOE_AZN
VO^\XGGNTCIRPIJH[@RQKBXLRZ@CD^HKANYVW@RLGEZEJN@\_WZJBNZYYKVIOR]T]MNMG_Z[YVWSCH_Q[G
PC_A@CARQVXDSDA^M]@DRVUM@RBM
Date: Sat, 3 Feb 2007 10:13:53 -0600
Xref: g2news2.google.com rec.radio.amateur.homebrew:8923

Go to
rec.antiques.radio+phono

they can help you

"tack" <tack1@flash.net> wrote in message
news:1170482223.513557.185420@l53g2000cwa.googlegroups.com...
>I have a few of these radios; I'm wanting to put together some battery
> packs for them.  Does anyone have a good schematic for a DC-DC
> converter to take 9vdc to 90vdc?
> I'm also going to need to make up a 4-prong connector for the battery
> packs; any ideas anyone?  Can the connectors be purchased?  Thanks a
> lot
>




From 8236656929296447056
X-Google-Thread: fc2a5,d33915a591873c51
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v45g2000cwv.googlegroups.com!not-for-
mail
From: "terry" <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3P41 Transmiting Tube Data Need
Date: 3 Feb 2007 08:58:45 -0800
Organization: http://groups.google.com
Lines: 14
Message-ID: <1170521925.383299.4670@v45g2000cwv.googlegroups.com>
References: <45c11e61_1@x-privat.org>
NNTP-Posting-Host: 142.162.157.232
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170521947 9444 127.0.0.1 (3 Feb 2007 16:59:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 3 Feb 2007 16:59:07 +0000 (UTC)
In-Reply-To: <45c11e61_1@x-privat.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v45g2000cwv.googlegroups.com; posting-host=142.162.157.232;
   posting-account=J8f3NA0AAAApayX7upsAHyq0lPJRDLXM
Xref: g2news2.google.com rec.radio.amateur.homebrew:8924

On Jan 31, 8:06 pm, "Heriberto" <lu6...@tapalquenet.com.ar> wrote:
> Hi All:
>             I try found the data of 3P41 japan tube transmiting, but no hhave
> good luck.-  Anyone have this data ? Tks in aadvance.-
>
> REgards
> Heriberto
> LU6DBU
.
Do you mean SP41?
A four volt Mazda octal high gain pentode.
Just wondering?





From -2805333932379755364
X-Google-Thread: fc2a5,9180a50d1e60f417,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr23.news.prodigy.net.POSTED!c4667c2f!not-for-
mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: SMC ?
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <EA3xh.3256$MN.513@newssvr23.news.prodigy.net>
NNTP-Posting-Host: 70.142.62.252
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr23.news.prodigy.net 1170523556 ST000 70.142.62.252 (Sat, 03 Feb
2007 12:25:56 EST)
NNTP-Posting-Date: Sat, 03 Feb 2007 12:25:56 EST
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
Q[R_PJSCTS@ERQXXKZOX_RXAUSXB@DTMNHWB_EYLJZ]BGIELDVW[AKK[J\]^HVKHG^EWZHBLO^[\NH_AZF
WGN^\DHNVMX_DHHX[FSQKBOTS@@BP^]C@RHS_AGDDC[AJM_T[GZNRNZAY]GNCPBDYKOLK^_CZFWPGHZIXW
@C[AFKBBQS@E@DAZ]VDFUNTQQ]FN
Date: Sat, 3 Feb 2007 11:21:22 -0600
Xref: g2news2.google.com rec.radio.amateur.homebrew:8925
```

Who besides Watkins Johnson used SMC jumpers? I need to find three
connectorized jumpers for my WJ 8718.
tnx

--

73
Hank WD5JFR

From -7396152233442516555
X-Google-Thread: fc2a5,d33915a591873c51
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
From: "Heriberto" <lu6dbu@tapalquenet.com.ar>
Newsgroups: rec.radio.amateur.homebrew
References: <45c11e61_1@x-privat.org>
<1170521925.383299.4670@v45g2000cwv.googlegroups.com>
Subject: Re: 3P41 Transmiting Tube Data Need
Date: Sat, 3 Feb 2007 15:04:39 -0300
Lines: 28
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 5.00.2919.6600
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
NNTP-Posting-Host: $$6cknoaitsc1q.news.x-privat.org
Message-ID: <45c4cc0a_2@x-privat.org>
Organization: X-Privat NNTP Server - http://www.x-privat.org
X-Authenticated-User: $$l1dodqu9tn$idhdv-zi5hlm-q
X-Complaints-To: abuse@x-privat.org
Path: g2news2.google.com!news2.google.com!news.germany.com!news.newsland.it!
newsfeed.x-privat.org!x-privat.org!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8926

Tks TErry for your reply, but no is SP41, is 3P41, a Japan Transmision tube,
made by JRC (Japan radio compay).- The data shett5s is in nippon (japanese)
language, wich Unknown for me.-
Still hope help.
Excusme my english poor.
Regards

Heriberto
LU6DBU
"terry" <tsanford@nf.sympatico.ca> escribi� en el mensaje
news:1170521925.383299.4670@v45g2000cwv.googlegroups.com...
> On Jan 31, 8:06 pm, "Heriberto" <lu6...@tapalquenet.com.ar> wrote:
> > Hi All:
> >   I try found the data of 3P41 japan tube transmiting, but no
hhave
> > good luck.- Anyone have this data ? Tks in aadvance.-
> >

> > REgards
> > Heriberto
> > LU6DBU
> .
> Do you mean SP41?
> A four volt Mazda octal high gain pentode.
> Just wondering?
>
>

From 6899119786967341472
X-Google-Thread: fc2a5,9180a50d1e60f417
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr23.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <EA3xh.3256$MN.513@newssvr23.news.prodigy.net>
Subject: Re: SMC ?
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <Xn4xh.3265$MN.1847@newssvr23.news.prodigy.net>
NNTP-Posting-Host: 70.142.62.252
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr23.news.prodigy.net 1170526839 ST000 70.142.62.252 (Sat, 03 Feb 2007 13:20:39 EST)
NNTP-Posting-Date: Sat, 03 Feb 2007 13:20:39 EST
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
Q[R_PJSCTS@ERQXXKZOX_RXAUSXB@DTMNHWB_EYLJZ]BGIELDVW[AKK[J\]^HVKHG^EWZHBLO^[\NH_AZF
WGN^\DHNVMX_DHHX[FSQKBOTS@@BP^]C@RHS_AGDDC[AJM_T[GZNRNZAY]GNCPBDYKOLK^_CZFWPGHZIXW
@C[AFKBBQS@E@DAZ]VDFUNTQQ]FN
Date: Sat, 3 Feb 2007 12:18:36 -0600
Xref: g2news2.google.com rec.radio.amateur.homebrew:8927

I neglected to say threaded becasue I have some snap on ones that the
barrels are quite long enough to hold.
tnx
Hank
"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in message
news:EA3xh.3256$MN.513@newssvr23.news.prodigy.net...
> Who besides Watkins Johnson used SMC jumpers? I need to find three
> connectorized jumpers for my WJ 8718.

> tnx
>
> --
>
> 73
> Hank WD5JFR
>

From -864690934608432152
X-Google-Thread: fc2a5,1fdda873784087dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe02.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1170079761.013134.323880@l53g2000cwa.googlegroups.com>
<F%0wh.19002$w91.475@newsread1.news.pas.earthlink.net>
<9K2wh.400$6z6.31@newsfe06.lga>
<ii6wh.21413$X72.19578@newsread3.news.pas.earthlink.net>
<Kp7wh.42$mv7.27@newsfe04.lga>
<Bhcwh.16978$pQ3.14259@newsread4.news.pas.earthlink.net>
<1170480187.735505.263030@v45g2000cwv.googlegroups.com>
Subject: Re: Two QRP questions, one easy, the other, tricky...
Lines: 53
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <F3axh.294$%s2.276@newsfe02.lga>
X-Trace:
nphhjmdkmllhpdkelhbgfpgcdpepfmkgdifjhbdfbjhcgkfgnicfceledepkikoolhlefpnpglhfdcnhfmfeaflgjiklgkfinjlijiknmibodmellcoiclajdiidjkldfjnlkijlapclbdfj
NNTP-Posting-Date: Sat, 03 Feb 2007 17:48:37 MST
Date: Sat, 3 Feb 2007 19:48:34 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8928

The problem with power transistors is that they are big, and all other things being equal, more size spells more capacitance, and mosr capacitance spells more trouble at higher frequencies.

Chances are, you might do some good with some of them on 80, but you're not likely to make them play nice on 20. If you notice, the 3055 has an Ft of 2.5 MHz, 3054 3 MHz. The 2N2222 has an Ft of 250 MHz, so you can see there's a little difference there.

Your 3739 has a 10 MHz Ft, so you might get a little gain out of it on 80.

The 2SC895 I *think* is 20 (could only find a bad copy of the datasheet).
It will take a fair bit of tinkering to make parts like that work at all,
and they won't work well.

..

"mister35mm" <mister35mm@yahoo.co.uk> wrote in message
news:1170480187.735505.263030@v45g2000cwv.googlegroups.com...
> OK OK boys... yes I know 2n2222's are wonderful and plentiful, but I
> have a heap of geriatric bipolar power transistor I thought it might
> be worth experimenting with:-
>
> 2n3055 (three)
>
> 2n3054 (four)
>
> 2n3739 (two)
>
> 2n4800 (one)
>
> Sony D292 U38 (two)
>
> Sony 2sc895 (one)
>
> I thought if you can get anything up to 500mW with a general purpose
> NPN, then what can you get out of an old power transistor?
>
> I also have a load of BD139 medium-power transistors...?
>
> Any thoughts?
>
> In addition, I am still looking for the COMPONENT LAYOUT for the PCB
> for a QRP
> transmitter called "little joe" described in 9-81 in QST. I am not
> looking for just the circuit diagram but where the parts GO on the
> PCB!
>
> Stephen G7VFY
>
> 07956-544202
>

From 2788402173919651832
X-Google-Thread: fc2a5,5998ad86883aa65a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!j27g2000cwj.googlegroups.com!not-for-mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Re: MC1350 IC's
Date: 3 Feb 2007 18:02:08 -0800
Organization: http://groups.google.com
Lines: 47
Message-ID: <1170554528.078270.129350@j27g2000cwj.googlegroups.com>
References: <1170281177.260828.11580@p10g2000cwp.googlegroups.com>
   <1170300409.495615.259190@v33g2000cwv.googlegroups.com>
   <1170375168.032461.114280@h3g2000cwc.googlegroups.com>
   <LRQwh.7417$pg2.3723@bignews2.bellsouth.net>
NNTP-Posting-Host: 205.188.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1170554535 22395 127.0.0.1 (4 Feb 2007 02:02:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 4 Feb 2007 02:02:15 +0000 (UTC)
In-Reply-To: <LRQwh.7417$pg2.3723@bignews2.bellsouth.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 Turboweb
[dtc-tc104 8.4.1], HTTP/1.1 cache-dtc-aa07.proxy.aol.com[CDBC740B] (Traffic-
Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: j27g2000cwj.googlegroups.com; posting-host=205.188.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:8929

On Feb 2, 4:40=EF=BF=BDpm, ken scharf <wa2mzeNOSPAMB...@bellsouth.net> wrot=
e:
> LenAnder...@ieee.org wrote:
> > On Jan 31, 7:26?pm, sohosour...@gmail.com wrote:
> >> On Jan 31, 4:06 pm, radioanar...@yahoo.com wrote:
>
> >>> I have a bunch (50?) of MC1350's
> >>> I think they are 45 MHZ TV IF Amps.
> >>> anybody need some?
> >> I'm interested in a half-dozen or so. Please forward details to
> >> k...@cloudnet.com.
>
> >> Thanks,
>
> > =A0 =A0MC1350s are still being produced (!) and can be bought
> > =A0 =A0from Jameco...www.jameco.com...$1.95each, $1.85
> > =A0 =A0quantities of 10. =A0Jameco's catalog 271 has them as
> > =A0 =A0"audio amplifiers" =A0 :-)
>
> > =A0 =A0Those are the plastic-packaged offspring of the original
> > =A0 =A0Motorola MC1590, intended for any sort of RF amplifier-
> > =A0 =A0with-DC-gain-control from low AF on up to 70, 80 MHz.
> > =A0 =A0Differential input, differential output, gain control to
> > =A0 =A0beyond 50 db, very good constant input impedance on
> > =A0 =A0each input side. =A0Open-collector on output so there is
```

> > =A0 =A0good flexibility in its load configuration. =A0Turns out they
> > =A0 =A0also make good limiters.
>
> > =A0 =A0LenAnder...@ieee.org
>
> There was also the MC1351 which was a 'hotter'chip with more gain

...and the MC1349. But, Lansdale bought the rights and
production "rubyliths" to the 1350 and either ON Semi
or Freescale (the splits of old Motorola Semi) indicate
they are still production items.

The 1590-1350 and variants are output-open-collector,
therefore their individual stage gain is a function of the
load impedance. You can get an easy, stable, wide-
band gain of 30 db plus, all the way out to 60 MHz.
Input impedance is a constant 5 K in parallel with 5
pFd each input, easy to deal with since it isn't that
sensitive to output loads.

LenAnderson@ieee.org

```
From -4152408007371001120
X-Google-Thread: fc2a5,c8833d0bb3e88142
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l53g2000cwa.googlegroups.com!not-for-
mail
From: "tack" <tack1@flash.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Aluminum can eclosure
Date: 3 Feb 2007 20:23:37 -0800
Organization: http://groups.google.com
Lines: 32
Message-ID: <1170563017.565927.323350@l53g2000cwa.googlegroups.com>
References: <fgHwh.2140$%i7.1313@reader1.news.saunalahti.fi>
   <ncSwh.45014$jA.40668@bignews1.bellsouth.net>
   <1170481974.489150.178010@l53g2000cwa.googlegroups.com>
   <4g1xh.3032$a42.1263@reader1.news.saunalahti.fi>
   <slrnes9d01.2gs7.bit-bucket@shell.config.com>
NNTP-Posting-Host: 68.92.234.110
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170563032 9607 127.0.0.1 (4 Feb 2007 04:23:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 4 Feb 2007 04:23:52 +0000 (UTC)
In-Reply-To: <slrnes9d01.2gs7.bit-bucket@shell.config.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET
CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
```

```
Injection-Info: l53g2000cwa.googlegroups.com; posting-host=68.92.234.110;
   posting-account=uKUyGwwAAAAkx11KnifX36YVybIZ6Qe1
Xref: g2news2.google.com rec.radio.amateur.homebrew:8930

On Feb 3, 10:10 am, Allodoxaphobia <bit-buc...@config.com> wrote:
> On Sat, 03 Feb 2007 14:47:28 GMT, Ceriel Nosforit wrote:
> > Alas, on the wretched hour of Fri, 02 Feb 2007 21:52:54 -0800  tack thusly
> > proclaimed:
>
> ><snip>
>
> >> I believe that I've read that the distance from metallic objects
> >> should, at a bare minimum, be at least 1/2 the coil diameter.  So that
> >> means 2 times minimum, giving 1/2 of coil diameter around the sides.
> >> 3 would be much better.  Aluminum is good shielding material; onlt
> >> thing better would be copper (or silver).
>
> > Guess I came up with a rather cheap alternative then. :D
>
> > Think newspaper, or any other kind of paper, would be good filling
> > material to isolate the transformer from the aluminum can?
>
> Until it absorbs moisture.....
>
> Jonesy
> --
>   Marvin L Jones    | jonz          | W3DHJ  | linux
>    38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
>     *** Killfiling google posts: <http://jonz.net/ng.htm>- Hide quoted text -
>
> - Show quoted text -

Well, you saw what someone wrote: "The various rules
> of thumb you hear are just the result of someone determining what is
> acceptable . . .".  Put your creation together and see what "is acceptable".
If'n it ain't, then get a bigger can.



From -5904322477427366522
X-Google-Thread: fc2a5,7a3b556bcaab54b9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l53g2000cwa.googlegroups.com!not-for-
mail
From: "tack" <tack1@flash.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: zenith transoceanic battery packs
Date: 3 Feb 2007 20:37:35 -0800
Organization: http://groups.google.com
Lines: 28
Message-ID: <1170563855.373342.27560@l53g2000cwa.googlegroups.com>
References: <1170482223.513557.185420@l53g2000cwa.googlegroups.com>
```

```
   <sB2xh.3250$MN.2947@newssvr23.news.prodigy.net>
NNTP-Posting-Host: 68.92.234.110
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170563863 15397 127.0.0.1 (4 Feb 2007 04:37:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 4 Feb 2007 04:37:43 +0000 (UTC)
In-Reply-To: <sB2xh.3250$MN.2947@newssvr23.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET
CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l53g2000cwa.googlegroups.com; posting-host=68.92.234.110;
   posting-account=uKUyGwwAAAAkx11KnifX36YVybIZ6Qe1
Xref: g2news2.google.com rec.radio.amateur.homebrew:8931

On Feb 3, 10:13 am, "Henry Kolesnik" <koles...@nojunksbcglobal.net>
wrote:
> Go to
> rec.antiques.radio+phono
>
> they can help you
>
> "tack" <t...@flash.net> wrote in message
>
> news:1170482223.513557.185420@l53g2000cwa.googlegroups.com...
>
>
>
> >I have a few of these radios; I'm wanting to put together some battery
> > packs for them.  Does anyone have a good schematic for a DC-DC
> > converter to take 9vdc to 90vdc?
> > I'm also going to need to make up a 4-prong connector for the battery
> > packs; any ideas anyone?  Can the connectors be purchased?  Thanks a
> > lot- Hide quoted text -
>
> - Show quoted text -


I did; didn't go so good.  I thought I'd try here, since bein' what
I'm proposing to make is a homebrew, so is somewhat relevant to the
forum.  Oh well, Guess I'll go hang out at the Yahoo groups for a
while; yahoo is my ISP anyway.




From 6700656546774851405
X-Google-Thread: fc2a5,1fdda873784087dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!
feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
```

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Two QRP questions, one easy, the other, tricky...
Message-ID: <7g2bs29k50uqd5ts53m9640u1urglogqbe@4ax.com>
References: <1170079761.013134.323880@l53g2000cwa.googlegroups.com>
<F%0wh.19002$w91.475@newsread1.news.pas.earthlink.net>
<9K2wh.400$6z6.31@newsfe06.lga>
<ii6wh.21413$X72.19578@newsread3.news.pas.earthlink.net>
<Kp7wh.42$mv7.27@newsfe04.lga>
<Bhcwh.16978$pQ3.14259@newsread4.news.pas.earthlink.net>
<1170480187.735505.263030@v45g2000cwv.googlegroups.com> <F3axh.294$
%s2.276@newsfe02.lga>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 28
Date: Sun, 04 Feb 2007 10:56:18 +0200
NNTP-Posting-Host: 195.197.6.75
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1170579360 195.197.6.75 (Sun, 04 Feb 2007 10:56:00 EET)
NNTP-Posting-Date: Sun, 04 Feb 2007 10:56:00 EET
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:8932

On Sat, 3 Feb 2007 19:48:34 -0500, "xpyttl"
<xpyttl_NOSPAM@earthling.net> wrote:

>Chances are, you might do some good with some of them on 80, but you're not
>likely to make them play nice on 20. If you notice, the 3055 has an Ft of
>2.5 MHz, 3054 3 MHz. The 2N2222 has an Ft of 250 MHz, so you can see
>there's a little difference there.
>
>Your 3739 has a 10 MHz Ft, so you might get a little gain out of it on 80.
>The 2SC895 I *think* is 20 (could only find a bad copy of the datasheet).
>It will take a fair bit of tinkering to make parts like that work at all,
>and they won't work well.

The current gain drops to unity at fT, but you might still get some voltage and power gain around such frequencies in a common base configuration. This is the case in many microwave bipolar amplifiers, since you can not get transistors (or would be too expensive) with fT sufficiently high for common emitter configurations on a particular band.

However, I have not seen common base amplifiers for HF, since RF power transistors with sufficiently high fT are easily available for HF.

Paul OH3LWR

From 5486781633604511978
X-Google-Thread: fc8b1,5ad9c02ec8d35e27,start
X-Google-Thread: fc2a5,5ad9c02ec8d35e27,start
X-Google-Thread: 114aac,5ad9c02ec8d35e27,start
X-Google-Thread: 108122,5ad9c02ec8d35e27,start
X-Google-Attributes: gidfc8b1,gidfc2a5,gid114aac,gid108122,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon06.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr19.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.shortwave,rec.radio.amateur.equipment
Subject: WJ 8718 need parts
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <1nnxh.929$o61.405@newssvr19.news.prodigy.net>
NNTP-Posting-Host: 70.142.62.252
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr19.news.prodigy.net 1170604605 ST000 70.142.62.252 (Sun, 04 Feb 2007 10:56:45 EST)
NNTP-Posting-Date: Sun, 04 Feb 2007 10:56:45 EST
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
SCSGW[[DYJWUCQLXEBCBNWX@RJ_XPDLMN@GZ_GYO^JWTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Sun, 4 Feb 2007 09:54:42 -0600
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7407
rec.radio.amateur.homebrew:8934 rec.radio.shortwave:66126
rec.radio.amateur.equipment:8004

It had a blown M9D mixer which I replaced with a MCL TAK-3H and now it works pretty well except that I get all kinds of images because the low-pass RF filter A2 is missing, part No. 791616. Anyone know where I might find an exact or equivalent replacement? I also need 3 jumpers with SMC threaded plugs on each end, or some plugs.
tnx

--

73
Hank WD5JFR

```
From -1336151491602521437
X-Google-Thread: fc8b1,5ad9c02ec8d35e27
X-Google-Thread: fc2a5,5ad9c02ec8d35e27
X-Google-Thread: 114aac,5ad9c02ec8d35e27
X-Google-Thread: 108122,5ad9c02ec8d35e27
X-Google-Attributes: gidfc8b1,gidfc2a5,gid114aac,gid108122,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news2.google.com!news.maxwell.syr.edu!
panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.shortwave,rec.r
adio.amateur.equipment
Subject: Re: WJ 8718 need parts
Date: 4 Feb 2007 11:16:00 -0500
Organization: Former users of Netcom shell (1989-2000)
Lines: 13
Message-ID: <eq50s0$gqp$1@panix2.panix.com>
References: <1nnxh.929$o61.405@newssvr19.news.prodigy.net>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1170605761 29582 166.84.1.2 (4 Feb 2007 16:16:01 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Sun, 4 Feb 2007 16:16:01 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7408
rec.radio.amateur.homebrew:8935 rec.radio.shortwave:66130
rec.radio.amateur.equipment:8005

Henry Kolesnik <kolesnik@nojunksbcglobal.net> wrote:
>It had a blown M9D mixer which I replaced with a MCL TAK-3H and now it works
>pretty well except that I get all kinds of images because the low-pass RF
>filter A2 is missing, part No. 791616.  Anyone know where I might find an
>exact or equivalent replacement?  I also need 3 jumpers with SMC threaded
>plugs on each end, or some plugs.

Pasternack has the plugs, although they are sadly not cheap.  I got a TMC
receiver a couple years ago that had been demilitarized with a boltcutter
and wound up having to buy a bunch from them.
--scott
--
"C'est un Nagra.  C'est suisse, et tres, tres precis."


From 6896958184596736091
X-Google-Thread: fc2a5,1fdda873784087dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a34g2000cwb.googlegroups.com!not-for-
mail
From: "mister35mm" <mister35mm@yahoo.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Two QRP questions, one easy, the other, tricky...
```

Date: 4 Feb 2007 09:41:57 -0800
Organization: http://groups.google.com
Lines: 24
Message-ID: <1170610917.358433.174250@a34g2000cwb.googlegroups.com>
References: <1170079761.013134.323880@l53g2000cwa.googlegroups.com>
<F%0wh.19002$w91.475@newsread1.news.pas.earthlink.net>
<9K2wh.400$6z6.31@newsfe06.lga>
<ii6wh.21413$X72.19578@newsread3.news.pas.earthlink.net>
<Kp7wh.42$mv7.27@newsfe04.lga>
<Bhcwh.16978$pQ3.14259@newsread4.news.pas.earthlink.net>
<1170480187.735505.263030@v45g2000cwv.googlegroups.com>
<F3axh.294$%s2.276@newsfe02.lga>
<7g2bs29k50uqd5ts53m9640u1urglogqbe@4ax.com>
NNTP-Posting-Host: 81.174.187.191
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170610923 405 127.0.0.1 (4 Feb 2007 17:42:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 4 Feb 2007 17:42:03 +0000 (UTC)
In-Reply-To: <7g2bs29k50uqd5ts53m9640u1urglogqbe@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.9)
Gecko/20061206 (CK-Stumble) Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a34g2000cwb.googlegroups.com; posting-host=81.174.187.191;
posting-account=CSEu3Q0AAADiuUUA3L3fZwUmzIFsNTF6
Xref: g2news2.google.com rec.radio.amateur.homebrew:8936

Ok then.... I give up.

I had checked out the maximum frequency on all these old bipolar power trannies, and basically, I've stuck them on ebay.

I seem to have quite a few BD139 power transistors. They are not as 'meaty' looking as they are medium power, plastic cased and are not small signal types.

Looking at the data sheet here:- http://www.ortodoxism.ro/datasheets2/6/0rwiehk82adehe25p4gkxjros2yy.pdf

It say these transistors are good up to 190MHz, so does this mean I can use one instead of a 2n2222 (I have lots of these BD139's and if they'll work, I'd like to try)

Would I have to change any of the component values of the Michigan Mighty Mite (http://cs.okanagan.bc.ca/ve7ouc/eng/kc6wdk-mirror/transmitter.html) component values to use a BD139? Say 1/2 or 1 watt resistors?

Stephen
G7VFY

From -5367029502575799678
X-Google-Thread: fc2a5,4f4c5faa27fff86
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
newspeer1.nwr.nac.net!colt.net!feeder.news-service.com!138.199.65.86.MISMATCH!sn-
xt-ams-06!sn-xt-ams-03!sn-ams!sn-feed-ams-02!sn-post-ams-01!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: Chris Jones <lugnut808@nospam.yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cell phone for homebrew ?
Date: Sun, 04 Feb 2007 19:23:52 +0000
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12scclblh7lctde@corp.supernews.com>
References: <Cjavh.2667$MN.2547@newssvr23.news.prodigy.net>
<1170076767.569262.121420@v33g2000cwv.googlegroups.com>
<epl57n$1b$1@theodyn.ncf.ca>
User-Agent: KNode/0.7.7
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Complaints-To: abuse@supernews.com
Lines: 68
Xref: g2news2.google.com rec.radio.amateur.homebrew:8937

Michael Black wrote:

> (skavanagh72nospam@yahoo.ca) writes:
>> Henry Kolesnik wrote:
>>> I sure see lots of retired cell phones and wonder why I haven't seen any
>>> homebrew projcts to make something useful out of old outdated ones.
>>
>> It always surprises me how little useful I can get out of these. I
>> used half the diplexer from a big old one as a filter for an 875 MHz
>> local oscillator chain for a 903 MHz receiving converter. And I used
>> the speaker from a more modern one to provide sidetone for a laser MCW
>> transmitter. That's it so far....
>>
> The big clunky ones, and I've not seen any at garage sales in a few
> years, have offered up things like FM IF strips (they've tended to
> be really easy to isolate from the rest of the unit), various crystal
> filters with centre frequencies above 30MHz which would be suitable
> as roofing filters, some txcos, go back far enough and they have
> standalone NE570 (or later variants) compander ICs. I've also pulled
> prescaler ICs out of them.
>
> The trick is that the older and bigger they are, the better the parts.
> There will be recognizeable parts, and many will even be in DIP packages.
>
> The more recent they are, the less valuable because everthing gets
> highly integrated. I opened one hand held cellphone, of recent

> vintage obviously, and the IF filter was barely recognizeable.

Mostly the receivers are direct conversion or low-IF (hundreds of kHz) these days, and the IF filters are active R-C filters on chip (then come the ADCs, followed by a DSP channel filter).

If you find a phone which was built 3 or more years ago then you will probably find a couple of quite high performance (good phase noise) Voltage Controlled Oscillators on little PCBs in metal cans. These could be re-used if the frequency is right for what you need (one will be in the transmit band of the phone normally, and the other one might be at a strange frequency). In phones from the last couple of years, those VCOs are all on-chip.

In GSM phones more than a year old, there will very likely be a good quality Temperature Compensated Voltage Controlled crystal Oscillator (TC-VCXO) at either 13 or 26 MHz, and those have much better phase noise and tempco than typical crystal oscillators in cans that you would get out of most other consumer products. The control voltage provides an easy way to adjust it (over a few PPM range only, e.g. calibrate it to a received frequency standard, which is what the phone does). Now in new phones they are starting to use on-chip oscillators with a separate crystal that would be less useful to homebrewers as it is not inherently temperature-compensated without the phone's software. It would still be a good crystal though, and in many cases the specifications can be found for the crystal.

The PA is normally still a separate component, so if you want a watt or so of RF then that component could quite likely be reused though they are fairly narrow-band if you want the full performance.

Other things you might find are LNA chips and SAW filters (e.g. in 3G phones you would find one at the Tx frequency and another at the RX frequency, in Europe this is a 60 MHz bandwidth centred at 1950MHz or 2140MHz. This might be useful as a first IF in some kind of up-converting architecture like a spectrum analyser.

I have also seen some websites where they have figured out how to drive the colour LCD panels out of recent phones for microcontroller projects.

Chris

From 7876709804033041601
X-Google-Thread: fc2a5,d33915a591873c51
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v33g2000cwv.googlegroups.com!not-for-mail
From: "terry" <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3P41 Transmiting Tube Data Need

```
Date: 4 Feb 2007 13:11:49 -0800
Organization: http://groups.google.com
Lines: 22
Message-ID: <1170623509.725086.232700@v33g2000cwv.googlegroups.com>
References: <45c11e61_1@x-privat.org>
   <1170521925.383299.4670@v45g2000cwv.googlegroups.com>
   <45c4cc0a_2@x-privat.org>
NNTP-Posting-Host: 142.162.157.232
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170623516 32201 127.0.0.1 (4 Feb 2007 21:11:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 4 Feb 2007 21:11:56 +0000 (UTC)
In-Reply-To: <45c4cc0a_2@x-privat.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v33g2000cwv.googlegroups.com; posting-host=142.162.157.232;
   posting-account=J8f3NA0AAAApayX7upsAHyq0lPJRDLXM
Xref: g2news2.google.com rec.radio.amateur.homebrew:8938

>
> > On Jan 31, 8:06 pm, "Heriberto" <lu6...@tapalquenet.com.ar> wrote:
> > > Hi All:
> > >  I have tried to find data of 3P41 japan tube transmiting, but
> > > no luck.
> > > Anyone have this data ? Tks in aadvance.-
>
> > > REgards
> > > Heriberto
> > > LU6DBU
> > .
Hi there: Heriberto.
Japanese unknown to me also!
I have tried searching Google with different combinations of words but
no result.
You probably searched also.
Maybe someone in/araound Japan can help?????
Try a 'boat-anchors' radio group????
Warm regards from Canada where it has been snowing!
Terry.




From 9006646674649904681
X-Google-Thread: fc2a5,d33915a591873c51
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.icl.net!
news.mailgate.org!draco.tiscalinet.it!news-f1.tiscali.it!not-for-mail
```

```
From: "Meregalli" <merega@tiscali.it>
Newsgroups: rec.radio.amateur.homebrew
References: <45c11e61_1@x-privat.org>
<1170521925.383299.4670@v45g2000cwv.googlegroups.com> <45c4cc0a_2@x-privat.org>
Subject: Re: 3P41 Transmiting Tube Data Need
Date: Sun, 4 Feb 2007 22:57:20 +0100
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Lines: 13
Message-ID: <45c656c2$0$7752$5fc30a8@news.tiscali.it>
Organization: Tiscali SpA
NNTP-Posting-Host: 84.222.8.161
X-Trace: 1170626242 news.tiscali.it 7752 84.222.8.161:4608
X-Complaints-To: abuse@tiscali.it
Xref: g2news2.google.com rec.radio.amateur.homebrew:8939

Heriberto wrote:
> Tks TErry for your reply, but no is SP41, is 3P41, a Japan Transmision
> tube, made by JRC (Japan radio compay).- The data shett5s is in nippon
> (japanese) language, wich Unknown for me.-
>        Still hope help.
> Excusme my english poor.
> Regards
>=20
> Heriberto
Try this link
http://www.deremate.com.ar/accdb/viewitem.asp?idi=3D14458979
Regards
Luca


From 1940232226291738303
X-Google-Thread: fc2a5,4f4beb4ae111b6a4,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!
newsfeed01.sul.t-online.de!t-online.de!news-in.ntli.net!newsrout1-win.ntli.net!
ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!newsfe2-
win.ntli.net.POSTED!53ab2750!not-for-mail
From: Tom <web@lutonac.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: C.M Howes AP3 Speech Processor.
Message-ID: <puocs2l5m2eoqg96lk5nqr87751cf9lcpg@4ax.com>
X-Newsreader: Forte Agent 2.0/32.652
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
```

Content-Transfer-Encoding: 7bit
Lines: 6
Date: Sun, 04 Feb 2007 22:52:56 GMT
NNTP-Posting-Host: 81.107.125.243
X-Trace: newsfe2-win.ntli.net 1170629576 81.107.125.243 (Sun, 04 Feb 2007 22:52:56 GMT)
NNTP-Posting-Date: Sun, 04 Feb 2007 22:52:56 GMT
Organization: NTL
Xref: g2news2.google.com rec.radio.amateur.homebrew:8940

Can anyone help I am look for a schematic diagram for the C.M Howes
AP3 Speech Processor.

Thanks
--
Tom

From 8295756784516072637
X-Google-Thread: fc2a5,edb9d807885d8cb1,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: GERMAN,ASCII
Path: g2news2.google.com!postnews.google.com!q2g2000cwa.googlegroups.com!not-for-mail
From: "bernado" <werner-grosse@web.de>
Newsgroups: rec.radio.amateur.homebrew
Subject: developlement - linear rf power amplifier, 2 * T380-1 grid base valves, 3 - 30 MHz, 1 KW
Date: 4 Feb 2007 21:19:19 -0800
Organization: http://groups.google.com
Lines: 506
Message-ID: <1170652759.081360.178210@q2g2000cwa.googlegroups.com>
NNTP-Posting-Host: 125.24.193.92
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1170652764 24724 127.0.0.1 (5 Feb 2007 05:19:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 5 Feb 2007 05:19:24 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; de; rv:1.8.1.1) Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q2g2000cwa.googlegroups.com; posting-host=125.24.193.92;
   posting-account=BA58SA0AAADgJBK95WtfKImV2jnboHnj
Xref: g2news2.google.com rec.radio.amateur.homebrew:8941

Werner Grosse
IPM - International Perforation Management
fax : 0049 - (0) 1212-5-375-17-531
http://www.microperforation.com
http://www.microperforation.com.cn
http://www.deguodaguan.com/ipm/

http://www.dk3qv.de
Email : ipm@dk3qv.de - werner-grosse@web.de

developlement - linear rf power amplifier, 2 * T380-1 grid base valves, 3 - 30 MHz, 1 KW

Linear Roehren-Endstufe f=FCr den Kurzwellen Amateurfunkbetrieb von 3.0 - 30 Mhz und einer Dauerstrichleistung bis 1 KW mit zwei Sendetrioden T-380-1 in Gitterbasisschaltung

ein Selbstbaukonzept f=FCr lizenzierte Funkamateure entwickelt von Werner Grosse - DK3QV - vielfach nach gebaut von 1983 - 1989

download - http://www.dk3qv.de

1=2E Einleitung

Diese Beschreibung der Selbstbau KW-Linearendstufe soll diejenige Gruppe der Funkamateure ansprechen, die immer noch mit gro=DFem Interesse verschiedene Ger=E4te und Teile Ihrer Funkanlage mit zum Teil bescheidenen Mitteln selbst bauen.Das dazu eine Menge theoretischer und praktischer Erfahrungen, auf dem Gebiet der Elektronik und HF-Technik erforderlich sind, ist fast selbstverst=E4ndlich. Aber auch Funkamateure, die sich bisher noch nicht so intensiv mit dem Selbstbau verschiedener Ger=E4te befa=DFt haben kann diese Baubeschreibung viele praktische Tips und Hinweise liefern. Da die beschriebene KW-Linearendetufe nur von lizenzierten Funkamateuren mit der Lizenzklasse B betrieben werden darf, soll hier vollst=E4ndigkeitshalber nochmal erw=E4hnt werden.

2=2E Ausgangsbasis f=FCr den Selbstbau einer Kurzwelle

Die Ausgangsbasis f=FCr den Selbstbau dieser KW-Linearendstufe war einerseits das gro=DFe Interesse am Selbstbau und andererseits die M=F6glichkeit eines Nachbaues dieser Endstufe zu schaffen.Da die Kaufpreise von neuwertigen KW-Linearendstufen verschiedener Hersteller meist =FCber 2500 DM (verschiedene auch weitaus h=F6her) liegen und die Einzelpreise der Austausch- oder Ersatzr=F6hren bis zu DM 500,-/Stck. betragen, kommt auch noch ein finanzieller Aspekt hinzu. F=FCr diese Endstufe sind fast s=E4mtliche verwendete Bauteile (sofern nicht in sogenannten Funkbastelkisten vorhanden) mit Ausnahme der beiden Sendetrioden T 380-1, sehr kosteng=FCnstig auf den von Funkamateuren organisierten Flohm=E4rkten erworben werden. Der gesamte Aurbeitsaufwand ist, je nach pers=F6nlicher Begabung des einzelnen und nach Ausstattung der Endstufe, mit etwa 150 - 250 Std. anzusetzen.

Bei der Wahl der Sender=F6hren und der Ausgangsleistung der Endstufe wurde der neuen DV-AFuG vom 11.12.1981, wonach in Lizenzklasse B die Spitzenausgangsleistung 750 Watt (und wobei die Summe der Anodenverlustleistungen 750 W betragen kann) nicht =FCberschritten werden darf, Rechnung getragen. Die hier konzipierte Endstufe arbeitet mit 2 parallel betriebenen Sendetrioden des Typs T 380-1 von ABB in der Gitterbasisschaltung und erreicht eine Ausgangsleistung von 750

Watt in allen Betriebsarten und auf allen B=E4ndern bei einer Ansteuerung von 80 - 100 Watt. Da die Gesamtanodenverlustleistung der beiden R=F6hren 760 Watt betr=E4gt, lassen sich diese im AB-1 Betrieb schonend fahren, was den Intermodulationsabstand erh=F6ht und sich positiv auf die Lebensdauer der R=F6hren auswirkt. Ein weiterer Vorteil ist die Nutzung der Ausgangsleistung von 750 Watt in allen Betriebsarten und auf allen B=E4ndern, was auf die enormen Leistungsreserven der R=F6hren zur=FCckzuf=FChren ist.

Die beschriebene Endstufe mu=DF vom mechanischen und elektrischen Aufbau sowie deren Ausstattung nicht unbedingt bindend oder als optimal angesehen werden. Hier sind sicherlich eine Reihe von =C4nderungsm=F6glichkeiten denkbar. Dies aber bleibt letztlich jedem Funkamateur, seiner Phantasie und seiner Kreativit=E4t =FCberlassen. Diese Beschreibung kann nur die n=F6tigen Denkanst=F6=DFe dazu liefern.

3=2E Mechanischer Aufbau

Durch den gro=DFen Platzbedarf und das enorme Gewicht der vorhandenen Transformatoren wurde das Netzger=E4t in einem getrennten Stahlblechgeh=E4use untergebracht. Das Geh=E4use der Endstufe war aus verschiedenen 2 mm starken Aluminiumplatten zusammengeschraubt worden und hatte etwa die Abmessungen 380*320*280 mm.

Es leider nicht m=F6glich, die seinerzeitigen Ansichtsfotos hier abzubilden.

Alle Netzteilbauteile wurden auf einer kr=E4ftigen 3 mm starken Stahlblechmontagetafel aufgebaut, welche dann mit dem Geh=E4useboden verschraubt sind. Die notwendigen Bedienungselemente sind in die Frontplatte eingebracht und diverse Anschlu=DFkabel mit Knickschutzt=FCllen nach hinten herausgef=FChrt. F=FCr die.elektrischen Verdrahtungen wurden im Netzteil entsprechende L=F6tleisten aufgebaut. Das gesamte Geh=E4use ist mit einem U-f=F6rmigen Deckel verschlie=DFbar.

Das Alugeh=E4use der Endstufe war durch ein Zwischenblech so aufgeteilt worden, da=DF im unteren 100 mm hohen Teil der gesamte HF-Eingangsteil sowie die Steuerung, und im 180 mm hohen oberen Teil der gesamte HF-Leistungsteil untergebracht war.

Im oberen Teil sind folgende Bauteile plaziert : Plate- und Loaddrehkondensatoren, Bandwahlschalter, Auskoppelkondensatoren, Keramikrippenk=F6rper, Luf'tspule L 10, Anodendrossel und die beiden Sender=F6hren. F=FCr ausreichende Luftk=FChlung sorgt hier ein Ventilator mit 160 m3/h und eine entsprechende str=F6mungsg=FCnstige Luftf=FChrung.

Im unteren Teil der Endstufe sind die Bauteile : Steuerungselemente, Verdrahtung, L=F6tleisten, Steckerzuf=FChrung, Hochspannungsanschlu=DF, R=F6hrenfassungsanschl=FCsse, HF-Eingangsteil mit Bahnwahlschalter, Antennenanschl=FCsse, Antennenrelais sowie die Katodendrossel zu finden.

Zur Bedienung und =DCberwachnung sind in die Frontplatte eingebaut : Plate, Load, Bandwahl-Ausgangsschalter, Betriebsartenschalter, Me=DFger=E4teumschalter, Me=DFger=E4t-relativer HF-Output, Me=DFger=E4t-Ia1=/Ua usw., Bandwahl- Eingangsschalter, L=FCfterschalter, L=FCfter schnell/ langsam sowie zwei Leuchtdioden.

Auf der Ger=E4ter=FCckwand befinden sich der Hochspannungsanschlu=DF, Soria=u-Mehrpolstecker, Erdungsschrauben sowie der Amphenolsteckeranschlu=DF zur externen Steuerung. Das gesamte Geh=E4use konnte mit einem feinperforierten Deckel allseitig geschlossen werden.

Wesentliche Informationen sind noch zu den elektrischen Verdrahtungen und Aufbauten noch anzuf=FCgen : S=E4mtliche Spannungsanschl=FC=DFe sind mit Keramikscheiben und MKS-Kondensatoren gegen HF abgeblockt worden. Der Hochspannungsanschlu=DF wurde aus Polyamid hergestellt und hatte eine eingebaute 4 mm Buchse zur Aufnahme des Hochspannungsanschlu=DFsteckers. Als Hochspannungskabel wurde eine spannungsfeste Ausf=FChrung mit 1mm2 Querschnitt gew=E4hlt. Zur Kontaktierung des Verbindungskabels zur Endstufe wurde ein mehrpoliger Soriaustecker bzw. Kupplung gew=E4hlt, wobei der Stecker in die Geh=E4user=FCckwand der Endstufe eingebaut ist. Netzteil und Endstufe wurden au=DFerdem zum besseren Potentialausgleich zus=E4tzlich mit 6 mm2 Erdungs- leitungen verbunden.

S=E4mtlich Hochspannungskabel und Anschl=FCsse sind sowohl im Netzteil wie auch in der Endstufe zus=E4tzlich mit Silikonschl=E4uchen versehen, was ganz erheblich zur besseren Isolierung beitrug. Damit der Spannungsverlust auf den Heizleitungen mit 5V/30 A so gering als m=F6glich blieb, mu=DFten entsprechend starke Kabelquerschnitte verwendet werden (hier 6 mm2). Um die Ausgangs- schwingkreisverluste der Endstufe so gering als m=F6glich zu halten, wurden hier ausschlie=DFlich 14 mm breite und 1 mm starke versilberte Kupferb=E4nder eingesetzt. Die R=F6hrenanschlu=DFsterne sind mit flexiblen, starkgeflochtenen Kupferb=E4ndern zum Auskoppelkondensator C35 (1000 pF/12 KV) verbunden.

Weitere Einzelheiten der Verdrahtung sind direkt dem Schaltplan in den Bildern 1 und 2 sowie den beigef=FCgten Tabellen 3 - 9 zu entnehmen.

4=2E Theoretische Grundlagen

Die Grundlagen dieser Ger=E4tebeschreibung bilden in ersten Linie die praktischen Kenntnisse und Erfahrungen zum Selbstbau einer solchen Linearendstufe. Da es aber nicht ganz ohne die notwendigen theoretischen Kenntnisse geht, die zum Bau einer solchen Endstufe erforderlich sind, wird jeder wissen, der sich schon mit dem Selbstbau befa=DFt. Hier sollen nur die wichtigsten theoretischen Grundlagen kurz erl=E4utert und dargestellt werden, die auch zum Teil bei dem Bau dieser Endstufe mitgewirkt haben. Die grunds=E4tzliche Arbeitsweise einer solchen KW- Linearendstufe wird hierbei vorausgesetzt. Wer dar=FCber hinaus seine Kenntnisse weiter vertiefen m=F6chte, dem sei auf die unten angegeben Literaturquellen hingewiesen.

Wie aus der Grundschaltung in Bild 3 zu sehen ist, wird die

Hochfrequenzleistung =FCber ein breitbandiges Eingangs-Filter symmetrisch in die Katode eingekoppelt.

Die Auskoppelung erfolgt hier durch das vielbew=E4hrte selektive Ausgangs-PI-Filter. Das Gitter der beiden R=F6hren liegt bei der Gitterbasisschaltung, die auch grounded-grid genannt wird, sowohl gleich, wie auch wechsel- spannungsm=E4=DFig direkt an Masse und bildet so eine nat=FCrlich Abschirmung zwischen Katode und Anode, ohne das die R=F6hre ihre Verst=E4rkereigenschaft verliert.

Der Arbeitspunkt wird hierbei =FCber eine automatische Gittervorspannung erzeugt (indem die Katode positiver gegen=FCber dem Gitter gesetzt ist), die durch den Arbeitswiderstand im Katodenkreis, hier die Zenerdiode D 1, festgelegt ist. Der Arbeitspunkt ist so gew=E4hlt, da=DF sich im AB-1-Betrieb eine Katodenspannung von Uk =3D 55 - 60V bei einer Anodenspannung von Ua =3D 2600 V/DC einstellt. Hierdurch ist sichergestellt, da=DF sich der Arbeitspunkt immer noch im teillinearen Bereich der Triodenkennlinie befindet. Der Ruhestrom betrug hierbei 80 mA/R=F6hre. Die beiden Drosseln Dr. 2/3 dienen zur Unterdr=FCckung von Huth-K=FChn-Schwingungen, die durch sch=E4dliche Gitter- Anodenkapazit=E4ten Cg-a1 und Cg-a2 =3D 14 pf hervorgerufen werden. Damit die eingekoppelte HF-Leistung nicht =FCber die Heizleitung zum Netztrafo (direkt geheizte Katode) abflie=DFt, sind zwei Heizdrosseln Dr. 4/5 erforderlich. Sie m=FCssen den Heizstrom (Ih =3D 30 A) und den Katodenstrom (Ikmax. =3D 1,0 A) ohne gro=DFe Verluste f=FChren k=F6nnen. Die hier erstellte Ausf=FChrung hatte einen Querschnitt von ann=E4hernd 3,2 mm2 bei einer Induktivit=E4t von Lh =3D 2,2 mH.

Vorteile der Gitterbasisschaltung mit 2 parallel betriebenen Trioden

* Eingangs- und Ausgangsspannung sind in Phase, es sind keine Neutralisation oder besondere Abschirmungen erforderlich
* die Treiberleistung wird nicht in W=E4rme umgesetzt, sondern durch die Endstufe durchgereicht
* Wahl des Arbeitspunktes im teillinearen Bereich der Triodenkennlinie (geringere nichtlineare Verzerrungen und deren Mischprodukte) im AB-1 Betrieb
* durch die Parallelschaltung l=E4=DFt sich die Ausgangsleistung fast verdoppeln
* einfacher Aufbau des Eingangs- und Ausgangskreises
* geringere Treiberleistung als bei Tetroden oder Pentoden erforderlich
* einfacher Aufbau des Netzteiles, da nur wenige Spannungen erforderlich sind
* finanzieller Vorteil durch die Verwendung von zwei ,,kleineren" R=F6hren gegen=FCber einer wesentlich teureren gro=DFen R=F6hre

Als Nachteile sind zu nennen :

* Summierung der R=F6hrenkapazit=E4ten (Cga1 + Cga2), was zur Herabsetzung der Grenzfrequenz und somit zur Leistungsminderung auf den oberen B=E4ndern f=FChrt
* Beg=FCnstigung von Huth-K=FChn-Schwingungen durch Cgal + Cga2
* durch den sehr niederimpedanten Eingangswiderstand (Re =3D 62.5 Ohm) ist eine relativ hohe Treiberleistung erforderlich

* da zwei Triodenkennlinien keinen absolut gleichen Verlauf aufweisen, steigen die nichtlinearan Verzerrungen (Intermodulationsst=F6rungen und deren Mischprodukte) gegen=FCber der Verwendung von nur einer R=F6hre wieder etwas an

5=2E Berechnung der Eingangs- und Ausgangsbedingungen

Der Eingangswiderstand der R=F6hre berechnet sich gem=E4=DF Bild 4.

Damit liegen die errechneten Eingangs- und Innnenwiderst=E4nde vor: RE ~ 62,5 Ohm, Ri ~ 1,75 KOhm

Aufgabe der Eingangs- und Ausgangs-PI-Filter ist es, den Eingangswiderstand von Zein- =3D 50 Ohm auf Rein~ 62,5 Ohm herauf- und den Innenwiderstand von Ri =3D 1,75 KOhm auf Zaus =3D 50 Ohm herab- zu transformieren. Da die komplexe Berechnung von Filtern den Rahmen dieser Beschreibung sprengen w=FCrde, kann hier nur auf den entsprechenden Literaturquellen verwiesen werden.

Die in Bild 5 aufgef=FChrte Tabelle mit s=E4mtlichen Berechnungen und Werten f=FCr die Ausgangs- PI-Filter wurde nach Unterlagen von DJ6HP (Kurzwellen- und Amateurfunktechnik) und DL3CI (CQ-DL 9/80) zusammengestellt.

Die G=FCte Q wurde hier mit ~11 angesetzt, was in der Praxis einen guten Kompromi=DF zwischen hoher G=FCte (gro=DFe Resonanzstr=F6me und damit verbundenen Verlusten) und selektiver Oberwellenunterdr=FCckung darstellt. Zum Vergleich sind auch noch die einem mit Induktivit=E4tsme=DFger=E4t als Frequenzz=E4hlervorsatz gemessenen und unabh=E4ngig von den PI-Filterberechnungen ermittelten Spulendaten eingetragen.

Die Berechnungsformel f=FCr einlagige Luftspulen ist in Bild 5 mit angegeben.

Die Tabelle in Bild 5 zeigt deutlich, da=DF sich auf den oberen B=E4ndern der induktive Aufbau des Ausgangs-PI-Filters schon bemerkbar macht (errechnete Induktivit=E4t und Sollinduktivit=E4t zur gemessenen Induktivit=E4t).
Ansonsten sind die errechneten Daten in der Gr=F6=DFenordnung zu finden, die sich auch sp=E4ter praktisch einstellten.

Das Eingangsfilter wurde breitbandig ausgelegt und hat eine G=FCte Q von ~ 2.0. Auf ein weiteres Berechnungsbeispiel wurde an dieser Stelle verzichtet. So sind deren Daten direkt der Tabelle 1 aus Bild 6 entnehmbar.

Mit dem Eingangsbandwahlschalter ist auch eine direkte HF-Einspeisung ohne das Eingangsfilter in Schalterposition 7 m=F6glich. Es zeigte sich aber deutlich, da=DF diese kleine Fehlanpassung von Zein =3D 50 Ohm und Rein ~ 62,5 Ohm zu einer Leistungsverminderung von 10 - 20 % am Ausgang der Endstufe f=FChren kann. Au=DFerdem wird der Intermodulationsabstand des Ausgangssignales bei dieser Arbeitsweise um etwa 5 dB geringer anzusetzen sein. Das Stehwellenverh=E4ltnis SWR f=FCr den Endstufeneingang mit diesem Eingangsfilter lag auf allen B=E4ndern unter 1 : 2,0.

6=2E Leistungsverst=E4rkung der Endstufe

Wie aus Tabelle 4 in Bild 8 zu sehen ist, betr=E4gt die Leistungsverst=E4rkung :
V =3D 10 Log. * Pout/Pin (in dB) auf allen B=E4ndern zwischen 9,21 und 9,81 dB.

Diese Leistungsverst=E4rkung reicht aus, um bei einer Ansteuerleistung von 80 - 100 Watt (auf allen B=E4ndern) auch noch sichere 750 Watt - Ausgangsleistung zu erhalten. Der Abfall der Leistungs- verst=E4rkung zu den h=F6heren B=E4ndern, ist bei dem Ansteuertransciver wesentlich st=E4rker ausgepr=E4gt (hier der Kennwood TS-515 mit bis zu 1,2 dB), als bei der Endstufe, wo der Leistungsabfall ca. 0,6 dB betr=E4gt. Dies ist auf den soliden Aufbau des HF-Eingangs- und Ausgangskreises sowie der Verwendung der beiden steilen Trioden zur=FCckzuf=FChren. Der Endstufenwirkungsgrad liegt auch hier, wie erfahrungsm=E4=DF bekannt, im AB-1 Betrieb zwischen 50 - 60%.

7=2E Schaltungsbeschreibung

Wie aus dem Schaltplan des Netzteiles der Linearendstufe in Bild 2 zu sehen ist, sind dort die notwendigen Transformatoren, Gleichrichter und Steuerungelemente untergebracht. Die beiden Hochspannungstransformatoren m4 und m4 werden durch Bet=E4tigung des Steuerrelais d1 (Anodenspannung-EIN) =FCber zwei parallelgeschaltete Widerst=E4nde (R4/R5 von 150 Ohm/7W) eingeschaltet. Deren =DCberbr=FCckung erfolgt zwei Sekunden zeitverz=F6gert durch d2. Diese bekannte Einschaltungsart von gro=DFen Transformatoren vermindert den Rush-Effekt f=FCr konventionelle 16A/H- oder L-Automaten der Netzabsicherung.

Das Hochspannungsnetzteil ist sehr spannungssteif ausgef=FChrt und beinhaltet nur leistungskr=E4ftige Bauteile. Als Hochspannungsgleichrichter ist ein Drehstrombr=FCckengleichrichter mit 4500V/DC Sperrspannung und 1,8 A Nennstrom verwendet. Die Hochspannungsgl=E4ttungskondensatoren bestehen aus zwei Bosch MP-Kondensatoren von jeweils 15uF/3KV. Die erforderlichen Versorgungsspannungen von +165V/0.2A, 12V/2A sind in bekannter Form erzeugt. Alle Spannungen mit Ausnahme der Hochspannung, werden =FCber eine mehrpolige Soriau-Buchse und Stecker zur Endstufe gef=FChrt. Bei hoher Strombelastung (Heizspannung) sind mehrere Steckerstifte parallel geschaltet. Verschiedene Funktionen sind optisch mit Leuchtdioden angezeigt. Verdrahtungsquerschnitte sind im Schaltplan, sofern erforderlich, angegeben.

Im Schaltplan von Bild 1 ist die Endstufe dargestellt.

Da zuvor die theoretischen Grundlagen der Gitterbasisschaltung f=FCr zwei parallelbetriebene Sendetrioden beschrieben worden ist, sind hierzu nur noch wenige Punkte anzuf=FCgen. Mit dem keramischen

Eingangsbandwahlschalter b2 wird das komplette Eingangs-PI-Filter f=FCr alle B=E4nder umgeschaltet. Der keramische Ausgangs- bandwahlschalter b3 ist mit kr=E4ftigen Kontakten (hier f=FCr 50 A) ausgef=FChrt, um die hohen Resonanzstr=F6me ohne gro=DFe Verluste f=FChren zu k=F6nnen. Der Plate-Drehkondensator C 36 hat 250 pF bei 6 KV Spannungsfestigkeit und der Load-Drehkondensator C37 1000 pF bei 3KV Spannungsfestigkeit. Eine deutlich h=F6here Spannungsfestigkeit hat der Auskoppelkondensator C 35 bei 1000 pF/12 KV.

Aus Platzgr=FCnden wurde auf eine Abschlu=DFscheibendrossel L~2,5 mH, die parallel zu C 38 - C 41 liegen m=FC=DFte, verzichtet. Diese Abschlu=DFscheibendrossel und galvanische Kopplung gegen Masse kann verhindern, da=DF bei durchgeschlagenem Auskoppelkondensator C 35 die Hochspannung an der Antenne anliegt. Da der Auskoppelkondensator eine Spannungsfestigkeit von 12 KV aufweist und sich eine maximale Anodenspitzenspannung von 8 KVss einstellt , ist diese M=F6glichkeit allerdings sehr gering. Achtung : Trotzdem immer einbauen !

S=E4mtliche Gitteranschl=FCsse sind mit keramischen Scheibenkondensatoren (C30 - C33 =3D 4700 pF) und Widerst=E4nden (R19 - R22 =3D 3,3 Ohm) abgeschlossen worden. Diese Widerst=E4nde erlauben au=DFerdem eine Gitterspannung bzw. Gitterstrommessung =FCber den Me=DFbereichsumschalter b7 und das Anzeigeme=DFinstrument g2. Der Eingang der Katodendrossel Dr. 1/2 s. Tabelle 3 in Bild 7) ist ebenfalls mit keramischen Scheibenkondensatoren C26/27 =3D 4700 pF abgeschlossen. Die Katodenspannung von 55 - 60 V (vom Mittelanschlu=DF des Heiztrafos =FCber den Steckerpin) stellt sich =FCber eine Reihen- und Parallelschaltung von Dioden (n 24 - n 187) und deren Durch- la=DFspannung ein. Diese Dioden m=FCssen den Katodenstrom (hier max. 1,5 A) sicher f=FChren k=F6nnen und die auch entstehende Verlustw=E4rme Pv - UK * IK =3D 48 Watt (bei ~ Ik =3D 0,8 A) aufnehmen k=F6nnen. Alternativ hierzu sind auch Zenerdioden, die auf einem K=FChlblech isoliert aufgebaut sind, einsetzbar. Da Zenerdioden auf Grund unterschiedlicher Kennlinien und Zenerspannungen nicht parallel schaltbar sind, kommen somit nur leistungsstarke Fabrikate in Frage.

Nachteilig, und das gilt f=FCr beide Katodenspannungserzeugungsarten, ist die Tatsache, da=DF durch die Eigenerw=E4rmung die Diodenschwellspannung und somit auch die Zenerspannung sich etwas nach unten ver=E4ndert. Die in der Praxis ermittelte =C4nderung der Katodenspannung lag in der Gr=F6=DFenordnung von etwa 10 %. Diese Auswirkungen (die Katodenspannung sinkt um etwa 10 % ab), nach der sich der Arbeitspunkt im AB-1 Betrieb etwas n=E4her zum A-Betrieb hin ver=E4ndert und den Katodenstrom etwas ansteigen l=E4=DFt, hatte bei sp=E4teren praktischen Messungen allerdings keine gr=F6=DFeren Auswirkungen.

Das Antennenrelais, eine kr=E4ftige 12V-Ausf=FChrung mit 15A Kontakten, ist in unmittelbarer N=E4he der PL-Buchsen auf Gummiringen zur Schaltger=E4uschverminderung montiert. Die Verbindung vom HF-Ausgangskreis zum Antennenrelais erfolgte mit einem 20 cm kurzen Koaxialkabel RG 58-U. Da sich dieses Koaxialkabel vorz=FCglich verarbeiten und biegen l=E4=DFt, wurden bewu=DFt kleinere Kabelverluste in Kauf genommen.

Ein kr=E4ftiger 230V/AC-Ventilator, der f=FCr eine ausreichende K=FChlung sorgt, ist von der Frontplatte aus auf schnell bzw. langsam umschaltbar. Die gesamte Betriebsartensteuerung ist mit den 12-V Relais d3 - d6 aufgebaut und kann =FCber den Betriebsartenschalter entsprechend vorgew=E4hlt werden. Zur externen PTT-Steuerung ist das Relais d6 benutzt. Eine HF-Vox-Steuerung ist nicht eingesetzt. Dies gilt ebenso f=FCr eine ALC-Spannungsgewinnung vom HF-Ausgangssignal zur Leistungssteuerung des Ansteuertranscievers. Nachteilig war dies beim sp=E4teren Betrieb nicht.

Mit dem Me=DFbereichsumschalter und Anzeigeinstrument g2 k=F6nnen folgende Spannungen und Str=F6me w=E4hrend des Betriebs gemessen werden:
1 - Ua, 2 - Ik, 3 - Igl, 4 - IgR1, 5 - IgR2, 6 - Uver+165V, 7 - Uver +12V

Mit dem Anzeigeinstrument gl ist der relative HF-Output (nicht frequenzkompensiert) moderat angezeigt. Im Stand-by-Betrieb wird die Katodenspannung auf + 165 V gelegt, was zur absoluten Sperrung der beiden Trioden bei Ua=3D2800V ausreicht. Wichtige Schaltungszust=E4nde sind optisch mit den Leuchtdioden LED 3 und 4 signalisiert.

S=E4mtliche Versorgungs- und Steuerspannungen werden gegen die Hochfrequenz mit entsprechenden Kondensatoren abgeblockt. Die Anodendrossel Dr. 3 (s. Tabelle 3 in Bild 7) ist einlagig auf einem Keramikk=F6rper aufgebracht worden und dient zur Zuf=FChrung der Hochspannung in den Anoden- kreis. Der keramische Hochspannungskondensator c34 =3D 5000 pF/5KV blockt hierbei die HF vom ,,kalten Ende" der Drossel ab.

8=2E Verwendete Me=DFger=E4te und Me=DFverfahren

Folgende Me=DFger=E4te und Hilfsmittel standen zum Selbstbau der Linearendstufe zur Verf=FCgung :

* 100 MHz - Zweistrahlloszilloskop, Typ: HM 512 N
* Heathkit - Wattmeter HM 102/1 KW
* Dummyload HN 31/1 KW
* L- und C-Me=DFger=E4te als Frequenzz=E4hlervors=E4tze
* SVR-Me=DFger=E4te 1 KW
* Tongenerator 1 - 100 KHz
* sowie verschiedene konventionelle analoge und digitale Volt- und Ampereme ter.

Leider stand zur Messung des Intermoduationsabstandes und Spektrums kein Zweitonsignalgenerator und Spektrumanalysator zur Verf=FCgung. Der Abstand der Intermodulationsprodukte 3. Ordnung des Ausgangssignales liegt erfahrungsgem=E4=DF bei ca. 40 dB vom Sollsignal und sollte bei Linearendstufen noch etwa um den Faktor der Leistungsverst=E4rkung, hier 9,5 dB, h=F6her anzusetzen sein, damit die effektiven Intermodulationsst=F6rungen und deren Mischprodukte bei gegebenem Abstand zum Sollsignal bei gr=F6=DFerer Ausgangsleistung auch im gleichen Verh=E4ltnis klein bleiben. Beim sp=E4teren Betrieb der Linearendstufe, und dies wurde in vielen QSO's vom jeweiligen Gespr=E4chspartner best=E4tigt, sind keine unerw=FCnschten Verzerrungen oder Splatter sowie Nebenausstrahlungen aufgetreten.

Dennoch sind vor dem Betrieb der Endstufe einige Ausgangssignale oszillographiert, die mit den vorhandenen technischen Mitteln m=F6glich waren. Hierbei war kein sogenanntes flat-topping zu beobachten und die HP-Amplitude zeigte sich als reine Sinusform. Auch konnten keine unerw=FCnschten Phasendifferenzen zwischen Eingangs und Ausgangskreis, die durch falsche =DCbersetzungsverh=E4ltnisse des Ausgangskreises und deren Blindkomponenten entstehen k=F6nnen, festgestellt werden. Solche Phasendifferenzen k=F6nnen ebenfalls zu Fehlanpassungen und Fehlabstimmungen mit den bekannten Auswirkungen f=FChren.

9=2E Praktische Betriebserfahrungen

Die genannte KW-Linearendstufe ist in dieser Applikation mit dem KW-Kennwood-Transciver TS-515 angesteuert. Als Antenne ist ein Doppeldipol f=FCr 80 und 40 m sowie ein Dreielement-Beam von Hygain TH3-MHK in 28 m H=F6he verwandt. Die praktischen Betriebserfahrungen mit dieser Selbstbau-Endstufe sind als sehr gut zu bezeichnen. Auch die Abstimung des Transcivers auf den Endstufeneingangskreis und die Abstimmung des Endstufenausgangskreises an die Antenne ist auf allen B=E4ndern ohne Probleme durchzuf=FChren. Die Stehwellenverh=E4ltnisse betragen auf 10, 15 und 20 m mit dem Beam etwa 1 : 2.0 und bei den Doppeldipolen (die nur 2 m =FCber dem Hausdach aufgebaut sind) etwa 1 : 2,0 bis 1 : 3,2.

Sehr von Vorteil ist auch die Zweistufenumschaltung des kr=E4ftigen Ventilators, der in der zweiten Stufe schon h=F6rbare Windger=E4usche verursacht, die bei leisen Empfangsdurchg=E4ngen st=F6ren k=F6nnen. RTTY- oder CW Betrieb wurde bisher mit dieser Endstufe noch nicht ausge=FCbt. Es zeigten sich aber auch bei langen Phonie-Durchg=E4ngen keine =DCberlastungen der R=F6hren. Die Anoden der R=F6hren erhielten lediglich eine r=F6tliche F=E4rbung, was als ,,normaler". Betriebszustand anzusehen ist. Durch die str=F6mungsg=FCnstige Luftf=FChrung wurde die Verlustw=E4rme auch sehr schnell aus dem Geh=E4use herausgetragen. Ein gro=DFer Vorteil ist ebenfalls die M=F6glichkeit, st=E4ndig alle Spannungen und Str=F6me mit dem eingebauten Me=DFinstrument zu =FCberwachen, ohne hierzu das eingebaute Outputmeter umzuschalten.

Die sichere Funktion, Arbeitsweise und Leistungsf=E4higkeit eines jeden Selbstbauger=E4tes ist hierbei auch der beste Erfolg f=FCr den Funkamateur.

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Bild 1 : Schaltplan der HF-Endstufe
Bild 2 : Schaltplan des Hochleistungsnetzteil
Bild 3 : Roehrengrundschaltung
Bild 4 : Eingangs- und Ausgangsbedingungen
Bild 5 : Tabelle und Berechnung des Ausgangs-PI-Filters
Bild 6 : Daten des Eingangs- und Ausgangs-PI-Filters
Bild 7 : Heizdrossel, Anodendrossel und Anodenwiderst=E4nde
Bild 8 : Eingangs- und Ausgangsleistungen der Endstufe
Bild 9 : Daten der Sendetriode T-380-1 von ABB

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From 5820399702592620553
X-Google-Thread: fc2a5,63a5a07c199cc9a1,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v33g2000cwv.googlegroups.com!not-for-mail
From: "hxc98@yahoo.com" <hxc98@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: aprspoint 4.0 available, with improved tracking
Date: 5 Feb 2007 01:39:16 -0800
Organization: http://groups.google.com
Lines: 13
Message-ID: <1170668356.317794.57700@v33g2000cwv.googlegroups.com>
NNTP-Posting-Host: 58.19.33.75
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170668362 28567 127.0.0.1 (5 Feb 2007 09:39:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 5 Feb 2007 09:39:22 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.2; SV1; .NET CLR 1.1.4322; Alexa Toolbar),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v33g2000cwv.googlegroups.com; posting-host=58.19.33.75;
   posting-account=qkd21QwAAAAs0AsHsbNsv0PdNKEViQPM
Xref: g2news2.google.com rec.radio.amateur.homebrew:8942
```

When you are tracking a moving object, aprspoint will record all its positions on the map, and optionally connect them with lines to form a track. If you are tracking multiple moving objects at the same time, the map could get cluttered quickly. In this new version, you can choose to selectively remove an individual object's track, or remove all tracks on the map. This version also includes fixes for several bugs reported by the users. We have also tested it extensively on the Vista platform as well. Old keys will no longer work on this new version, please refer to the web site http://www.aprspoint.com for upgrade details.

Michael Cai, KF6ZDM

From -5035555495198593607
X-Google-Thread: fc2a5,edb9d807885d8cb1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: GERMAN,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news.glorb.com!news.litech.org!not-for-mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: developlement - linear rf power amplifier, 2 * T380-1 grid base valves, 3 - 30 MHz, 1 KW
Date: Mon, 5 Feb 2007 12:51:09 +0000 (UTC)
Organization: Me?
Lines: 28
Sender: mikea@mikea.ath.cx
Message-ID: <eq797s$bm3$1@puck.litech.org>
References: <1170652759.081360.178210@q2g2000cwa.googlegroups.com>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1170679869 11971 68.15.203.64 (5 Feb 2007 12:51:09 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Mon, 5 Feb 2007 12:51:09 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:8943

On 4 Feb 2007 21:19:19 -0800, bernado <werner-grosse@web.de> wrote in
<1170652759.081360.178210@q2g2000cwa.googlegroups.com>:
> Werner Grosse
> IPM - International Perforation Management
> fax : 0049 - (0) 1212-5-375-17-531
> http://www.microperforation.com
> http://www.microperforation.com.cn
> http://www.deguodaguan.com/ipm/
> http://www.dk3qv.de
> Email : ipm@dk3qv.de - werner-grosse@web.de

> developlement - linear rf power amplifier, 2 * T380-1 grid base

> valves, 3 - 30 MHz, 1 KW

> Linear Roehren-Endstufe f?r den Kurzwellen Amateurfunkbetrieb von 3.0
> - 30 Mhz und einer Dauerstrichleistung bis 1 KW mit zwei Sendetrioden
> T-380-1 in Gitterbasisschaltung

> ein Selbstbaukonzept f?r lizenzierte Funkamateure entwickelt von
> Werner Grosse - DK3QV - vielfach nach gebaut von 1983 - 1989

,,,

Auf Englisch, bitte?

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From -6547176121296521877
X-Google-Thread: fc2a5,d33915a591873c51
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!not-for-mail
From: cbx <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3P41 Transmiting Tube Data Need
Date: Mon, 05 Feb 2007 07:10:11 -0600
Message-ID: <bk8es25scht88uouh6tbffn7hkipt1729f@4ax.com>
References: <45c11e61_1@x-privat.org>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 5
Organization: Newshosting.com - Highest quality at a great price! www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8945

This is a small CRT I believe, 41 means long persistance phosphor as
used in radar (slow scan ham use). They were also used in early
Heathkit spectrum display. I may have one in my junk pile.

From 4423802481724544627
X-Google-Thread: fc2a5,7d37a3ab6a052ac1,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-sjc-01!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Wanted - "Hands-on-radio" articles from 8/06 & 10/06 QST
Date: Mon, 5 Feb 2007 07:51:43 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12sedjo37tkru32@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8946

Wanting to build what they describe and outline. Willing to pay a couple dollars each via PayPal if desired. Scanned articles would be ideal.

Thanks much.

Dave

From 4389442887270995052
X-Google-Thread: fc2a5,7a3b556bcaab54b9
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a75g2000cwd.googlegroups.com!not-for-mail
From: "tack" <tack1@flash.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: zenith transoceanic battery packs
Date: 5 Feb 2007 06:55:06 -0800
Organization: http://groups.google.com
Lines: 28
Message-ID: <1170687306.896375.41880@a75g2000cwd.googlegroups.com>
References: <1170482223.513557.185420@l53g2000cwa.googlegroups.com>
   <hivbs29unq6gl435unihuqeqia8m0kq0vk@4ax.com>
NNTP-Posting-Host: 68.92.234.110
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170687313 8705 127.0.0.1 (5 Feb 2007 14:55:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 5 Feb 2007 14:55:13 +0000 (UTC)
In-Reply-To: <hivbs29unq6gl435unihuqeqia8m0kq0vk@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)

Complaints-To: groups-abuse@google.com
Injection-Info: a75g2000cwd.googlegroups.com; posting-host=68.92.234.110;
   posting-account=uKUyGwwAAAAkx11KnifX36YVybIZ6Qe1
Xref: g2news2.google.com rec.radio.amateur.homebrew:8947

On Feb 4, 9:39 am, no.s...@no.uce.bellatlantic.net wrote:
> On 2 Feb 2007 21:57:03 -0800, "tack" <t...@flash.net> wrote:
>
> >I have a few of these radios; I'm wanting to put together some battery
> >packs for them. Does anyone have a good schematic for a DC-DC
> >converter to take 9vdc to 90vdc?
> >I'm also going to need to make up a 4-prong connector for the battery
> >packs; any ideas anyone? Can the connectors be purchased? Thanks a
> >lot
>
> Why not 10 9V batteries in series?

I came across a couple of old original battery packs (full of defunct
carbon-zincs) that took the innards out of so that i can fill it with
D cells for the "A" voltage and 9v batteries for the "B" power. You
can get the 9v battery connectors at Mouser for to cents apiece by the
hundred, and 5 cents for the pair if you buy just the connector snaps
and solder your own wires. But I thought that it would be good to
have a battery pack that would take just one type of battery at a
minimum number. 6 "D" cells sounds interesting, and should give a
reasonable life. I suppose I could use 10 9v battereis for the "B"
supply and two or three 9v in parallel for the "A" but that is still a
dozen or more batteries and the "A" supply won't last long. Also a
person could use 60 + 6 "AA" cells . . . .
I know at least one person sells a dc/dc converter for Transoceanics
that takes 9 DC cells (+ 1 for the dial light) but they want 90 bucks
for it plus what ever the shipping charge is.

From -6937989031571121046
X-Google-Thread: fc2a5,d33915a591873c51
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
From: "Heriberto" <lu6dbu@tapalquenet.com.ar>
Newsgroups: rec.radio.amateur.homebrew
References: <45c11e61_1@x-privat.org>
<1170521925.383299.4670@v45g2000cwv.googlegroups.com> <45c4cc0a_2@x-privat.org>
<45c656c2$0$7752$5fc30a8@news.tiscali.it>
Subject: Re: 3P41 Transmiting Tube Data Need
Date: Mon, 5 Feb 2007 12:18:44 -0300
Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 5.00.2919.6600
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
NNTP-Posting-Host: $$6cknoaitsc1q.news.x-privat.org
Message-ID: <45c74865$1_3@x-privat.org>

```
Organization: X-Privat NNTP Server - http://www.x-privat.org
X-Authenticated-User: $$l1dodqu9tn$idhdv-zi5hlm-q
X-Complaints-To: abuse@x-privat.org
Path: g2news2.google.com!news4.google.com!homer!news.glorb.com!news-
spur1.glorb.com!news.glorb.com!x-privat.org!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8948

Yes Terry,  in the link above, is a auction RF amplificer with 3P41 JRC
tubes, but unknown this data.-
Still searching
Tks again

"Meregalli" <merega@tiscali.it> escribi� en el mensaje
news:45c656c2$0$7752$5fc30a8@news.tiscali.it...
Heriberto wrote:
> Tks TErry for your reply, but no is SP41, is 3P41, a Japan Transmision
> tube, made by JRC (Japan radio compay).- The data shett5s is in nippon
> (japanese) language, wich Unknown for me.-
>        Still hope help.
> Excusme my english poor.
> Regards
>
> Heriberto
Try this link
http://www.deremate.com.ar/accdb/viewitem.asp?idi=14458979
Regards
Luca




From 1279178246842783678
X-Google-Thread: fc2a5,d33915a591873c51
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
From: "Heriberto" <lu6dbu@tapalquenet.com.ar>
Newsgroups: rec.radio.amateur.homebrew
References: <45c11e61_1@x-privat.org> <bk8es25scht88uouh6tbffn7hkipt1729f@4ax.com>
Subject: Re: 3P41 Transmiting Tube Data Need
Date: Mon, 5 Feb 2007 12:29:35 -0300
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 5.00.2919.6600
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
NNTP-Posting-Host: $$6cknoaitsc1q.news.x-privat.org
Message-ID: <45c74ac8_2@x-privat.org>
Organization: X-Privat NNTP Server - http://www.x-privat.org
X-Authenticated-User: $$l1dodqu9tn$idhdv-zi5hlm-q
X-Complaints-To: abuse@x-privat.org
Path: g2news2.google.com!news3.google.com!news4.google.com!news2.volia.net!
news.musoftware.de!newsfeed.x-privat.org!x-privat.org!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8949
```

Not, it is a transmiting tube made in japan by JRC company, in use in
martitime tx.- but unknown other characteristics the this tube.-

Tks. Regards
Heriberto

Heriberto
"cbx" <nospam@nospam.com> escribi� en el mensaje
news:bk8es25scht88uouh6tbffn7hkipt1729f@4ax.com...
> This is a small CRT I believe, 41 means long persistance phosphor as
> used in radar (slow scan ham use). They were also used in early
> Heathkit spectrum display. I may have one in my junk pile.
>
>

From 9036590584495826511
X-Google-Thread: fc2a5,7d37a3ab6a052ac1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted - "Hands-on-radio" articles from 8/06 & 10/06 QST
Date: 5 Feb 2007 16:09:13 GMT
Organization: The National Capital FreeNet
Lines: 15
Message-ID: <eq7kr9$btn$1@theodyn.ncf.ca>
References: <12sedjo37tkru32@corp.supernews.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1170691753 12215 134.117.136.48 (5 Feb 2007 16:09:13 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 5 Feb 2007 16:09:13 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8950

"Dave" (db5151@hotmail.com) writes:
> Wanting to build what they describe and outline. Willing to pay a couple
> dollars each via PayPal if desired. Scanned articles would be ideal.
>
> Thanks much.
>
>
Go to the ARRL.

Unless something has changed in recent years, they'd sell you the back
issue you want, and if they don't have copies, sell you a photocopy of
the specific article.

Michael VE2BVW

```
From 4536105058749941340
X-Google-Thread: fc2a5,f38d6d9287e6e350,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s48g2000cws.googlegroups.com!not-for-
mail
From: phlnxsc@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Testing a mixer..
Date: 5 Feb 2007 10:13:22 -0800
Organization: http://groups.google.com
Lines: 17
Message-ID: <1170699202.802624.38420@s48g2000cws.googlegroups.com>
NNTP-Posting-Host: 88.240.68.138
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-9"
X-Trace: posting.google.com 1170699216 5163 127.0.0.1 (5 Feb 2007 18:13:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 5 Feb 2007 18:13:36 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; tr; rv:1.8.1.1) Gecko/
20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s48g2000cws.googlegroups.com; posting-host=88.240.68.138;
   posting-account=NpE-yA0AAAAh2Gb39c5TBmFfsHehXa77
Xref: g2news2.google.com rec.radio.amateur.homebrew:8951
```

Hi,

I have built two mixers for a direct conversion receiver. One of them a single transistor mixer, the other one is a single balanced diode mixer. I already have AF amplifier and LO stages. I think both are working fine seperately, but i can't hear anything when i connect the LO and the amplifier to the mixers(either of them of course). Is there any way that i can test these two mixers without test equipment like an oscilloscope or a signal generator? I also don't have a RF probe right now, only a multimeter. Actually i have another questions with this receiver, too, but this is where i am stuck at the moment.

(LO is a crystal controlled one. I built a VFO, too, but didn't manage to get it working, for now.)

Thanks in advance...

```
From -4191184667726690020
X-Google-Thread: fc2a5,7a3b556bcaab54b9
X-Google-Attributes: gidfc2a5,public
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 05 Feb 2007 13:38:32 -0600
Date: Mon, 05 Feb 2007 20:36:56 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla Thunderbird 1.0.2 (X11/20050322)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: zenith transoceanic battery packs
References: <1170482223.513557.185420@l53g2000cwa.googlegroups.com>
<hivbs29unq6gl435unihuqeqia8m0kq0vk@4ax.com>
<1170687306.896375.41880@a75g2000cwd.googlegroups.com>
In-Reply-To: <1170687306.896375.41880@a75g2000cwd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <kbCdnffGmu8lGlrYnZ2dnUVZ8qKvnZ2d@pipex.net>
Lines: 12
NNTP-Posting-Host: 71.107.26.158
X-Trace: sv3-7Ni6NowlJoWh8J+GINinFnctz33p8vz3SzGDbYes0HDHayUE3T/
K46nNGd+fwgVZItdWV55kSO4OIla!
MPGvy7k3vfsPyub5jWkqcryJC7yibar9EfbDOLT2bWtMDijdtolWaCsMfIYJKuPpz9Ac6gSZZRz2!
wLtGSqmfzA8sdZmhBLujGa+Ggw==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8952

> I know at least one person sells a dc/dc converter for Transoceanics
> that takes 9 DC cells (+ 1 for the dial light) but they want 90 bucks
> for it plus what ever the shipping charge is.
==========================================
A good  reason to build such a converter yourself....probably for
peanuts.  A 555 IC ,2 power transistors and a few passive components
Google is your friend.       After all this is THE homebrew NG.

Good Luck

Frank      KN6WH / GM0CSZ




From 1152899374229984729
X-Google-Thread: fc2a5,f38d6d9287e6e350
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j27g2000cwj.googlegroups.com!not-for-
mail
```

From: phlnxsc@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Testing a mixer..
Date: 5 Feb 2007 12:02:00 -0800
Organization: http://groups.google.com
Lines: 8
Message-ID: <1170705720.354445.180420@j27g2000cwj.googlegroups.com>
References: <1170699202.802624.38420@s48g2000cws.googlegroups.com>
NNTP-Posting-Host: 88.240.68.138
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170705726 9951 127.0.0.1 (5 Feb 2007 20:02:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 5 Feb 2007 20:02:06 +0000 (UTC)
In-Reply-To: <1170699202.802624.38420@s48g2000cws.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; tr; rv:1.8.1.1) Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j27g2000cwj.googlegroups.com; posting-host=88.240.68.138;
   posting-account=NpE-yA0AAAAh2Gb39c5TBmFfsHehXa77
Xref: g2news2.google.com rec.radio.amateur.homebrew:8953

I forgot to mention;

I got diode mixer schematic from here: http://www.vk2zay.net/article.php/46
and the bjt mixer schematic from here: http://homepage.eircom.net/~ei9gq/rx_circ.html#Mixers (first one).

Thanks again..

From -1713858622238982288
X-Google-Thread: fc2a5,d33915a591873c51
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m58g2000cwm.googlegroups.com!not-for-mail
From: "terry" <tsanford@nf.sympatico.ca>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 3P41 Transmiting Tube Data Need
Date: 5 Feb 2007 12:25:34 -0800
Organization: http://groups.google.com
Lines: 10
Message-ID: <1170707134.029817.289550@m58g2000cwm.googlegroups.com>
References: <45c11e61_1@x-privat.org>
   <bk8es25scht88uouh6tbffn7hkipt1729f@4ax.com>
NNTP-Posting-Host: 142.162.157.232
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170707142 13421 127.0.0.1 (5 Feb 2007 20:25:42 GMT)
X-Complaints-To: groups-abuse@google.com

```
NNTP-Posting-Date: Mon, 5 Feb 2007 20:25:42 +0000 (UTC)
In-Reply-To: <bk8es25scht88uouh6tbffn7hkipt1729f@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m58g2000cwm.googlegroups.com; posting-host=142.162.157.232;
   posting-account=J8f3NA0AAAApayX7upsAHyq0lPJRDLXM
Xref: g2news2.google.com rec.radio.amateur.homebrew:8954

On Feb 5, 10:10 am, cbx <nos...@nospam.com> wrote:
> This is a small CRT I believe, 41 means long persistance phosphor as
> used in radar (slow scan ham use).  They were also used in early
> Heathkit spectrum display.  I may have one in my junk pile.
.
Come to think of it the number does look like a small CRT!
But Heriberto is sure it is transmitting tube, possibly from a marine
service transmitter.
Could the 3P41 be a batch number not a tube type????




From -7357134854676196148
X-Google-Thread: fc2a5,edb9d807885d8cb1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: GERMAN,ASCII
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 05 Feb 2007 16:12:59 -0600
From: "John Doe" <hgorden@adelphia.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1170652759.081360.178210@q2g2000cwa.googlegroups.com>
Subject: Re: developlement - linear rf power amplifier, 2 * T380-1 grid base
valves, 3 - 30 MHz, 1 KW
Date: Mon, 5 Feb 2007 17:13:09 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <Z7OdndkzOKh2NlrYnZ2dnUVZ_tadnZ2d@adelphia.com>
Lines: 509
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6ID6Du2jfoowmrvVDfRard7uZ0pJ
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8955

CAN YOU REPEAT THIS IN ENGLISH?

"bernado" <werner-grosse@web.de> wrote in message
news:1170652759.081360.178210@q2g2000cwa.googlegroups.com...
Werner Grosse
IPM - International Perforation Management
fax : 0049 - (0) 1212-5-375-17-531
http://www.microperforation.com
http://www.microperforation.com.cn
http://www.deguodaguan.com/ipm/
http://www.dk3qv.de
Email : ipm@dk3qv.de - werner-grosse@web.de

developlement - linear rf power amplifier, 2 * T380-1 grid base valves, 3 - 30 MHz, 1 KW

Linear Roehren-Endstufe f�r den Kurzwellen Amateurfunkbetrieb von 3.0 - 30 Mhz und einer Dauerstrichleistung bis 1 KW mit zwei Sendetrioden T-380-1 in Gitterbasisschaltung

ein Selbstbaukonzept f�r lizenzierte Funkamateure entwickelt von Werner Grosse - DK3QV - vielfach nach gebaut von 1983 - 1989

download - http://www.dk3qv.de

1. Einleitung

Diese Beschreibung der Selbstbau KW-Linearendstufe soll diejenige Gruppe der Funkamateure ansprechen, die immer noch mit gro�em Interesse verschiedene Ger�te und Teile Ihrer Funkanlage mit zum Teil bescheidenen Mitteln selbst bauen.Das dazu eine Menge theoretischer und praktischer Erfahrungen, auf dem Gebiet der Elektronik und HF-Technik erforderlich sind, ist fast selbstverst�ndlich. Aber auch Funkamateure, die sich bisher noch nicht so intensiv mit dem Selbstbau verschiedener Ger�te befa�t haben kann diese Baubeschreibung viele praktische Tips und Hinweise liefern. Da die beschriebene KW-Linearendetufe nur von lizenzierten Funkamateuren mit der Lizenzklasse B betrieben werden darf, soll hier vollst�ndigkeitshalber nochmal erw�hnt werden.

2. Ausgangsbasis f�r den Selbstbau einer Kurzwelle

Die Ausgangsbasis f�r den Selbstbau dieser KW-Linearendstufe war einerseits das gro�e Interesse am Selbstbau und andererseits die M�glichkeit eines Nachbaues dieser Endstufe zu schaffen.Da die Kaufpreise von neuwertigen KW-Linearendstufen verschiedener Hersteller meist �ber 2500 DM (verschiedene auch weitaus h�her) liegen und die Einzelpreise der Austausch- oder Ersatzr�hren bis zu DM 500,-/Stck. betragen, kommt auch noch ein finanzieller Aspekt hinzu. F�r diese Endstufe sind fast s�mtliche verwendete Bauteile (sofern nicht in sogenannten Funkbastelkisten vorhanden) mit Ausnahme der beiden Sendetrioden T 380-1, sehr kosteng�nstig auf den von Funkamateuren organisierten Flohm�rkten erworben werden. Der gesamte Aurbeitsaufwand ist, je nach pers�nlicher Begabung des einzelnen und nach Ausstattung der Endstufe, mit etwa 150 - 250 Std. anzusetzen.

Bei der Wahl der Sender�hren und der Ausgangsleistung der Endstufe wurde der neuen DV-AFuG vom 11.12.1981, wonach in Lizenzklasse B die Spitzenausgangsleistung 750 Watt (und wobei die Summe der Anodenverlustleistungen 750 W betragen kann) nicht �berschritten werden darf, Rechnung getragen. Die hier konzipierte Endstufe arbeitet mit 2 parallel betriebenen Sendetrioden des Typs T 380-1 von ABB in der Gitterbasisschaltung und erreicht eine Ausgangsleistung von 750 Watt in allen Betriebsarten und auf allen B�ndern bei einer Ansteuerung von 80 - 100 Watt. Da die Gesamtanodenverlustleistung der beiden R�hren 760 Watt betr�gt, lassen sich diese im AB-1 Betrieb schonend fahren, was den Intermodulationsabstand erh�ht und sich positiv auf die Lebensdauer der R�hren auswirkt. Ein weiterer Vorteil ist die Nutzung der Ausgangsleistung von 750 Watt in allen Betriebsarten und auf allen B�ndern, was auf die enormen Leistungsreserven der R�hren zur�ckzuf�hren ist.

Die beschriebene Endstufe mu� vom mechanischen und elektrischen Aufbau sowie deren Ausstattung nicht unbedingt bindend oder als optimal angesehen werden. Hier sind sicherlich eine Reihe von �nderungsm�glichkeiten denkbar. Dies aber bleibt letztlich jedem Funkamateur, seiner Phantasie und seiner Kreativit�t �berlassen. Diese Beschreibung kann nur die n�tigen Denkanst��e dazu liefern.

3. Mechanischer Aufbau

Durch den gro�en Platzbedarf und das enorme Gewicht der vorhandenen Transformatoren wurde das Netzger�t in einem getrennten Stahlblechgeh�use untergebracht. Das Geh�use der Endstufe war aus verschiedenen 2 mm starken Aluminiumplatten zusammengeschraubt worden und hatte etwa die Abmessungen 380*320*280 mm.

Es leider nicht m�glich, die seinerzeitigen Ansichtsfotos hier abzubilden.

Alle Netzteilbauteile wurden auf einer kr�ftigen 3 mm starken Stahlblechmontagetafel aufgebaut, welche dann mit dem Geh�useboden verschraubt sind. Die notwendigen Bedienungselemente sind in die Frontplatte eingebracht und diverse Anschlu�kabel mit Knickschutzt�llen nach hinten herausgef�hrt. F�r die.elektrischen Verdrahtungen wurden im Netzteil entsprechende L�tleisten aufgebaut. Das gesamte Geh�use ist mit einem U-f�rmigen Deckel verschlie�bar.

Das Alugeh�use der Endstufe war durch ein Zwischenblech so aufgeteilt worden, da� im unteren 100 mm hohen Teil der gesamte HF-Eingangsteil sowie die Steuerung, und im 180 mm hohen oberen Teil der gesamte HF-Leistungsteil untergebracht war.

Im oberen Teil sind folgende Bauteile plaziert : Plate- und Loaddrehkondensatoren, Bandwahlschalter, Auskoppelkondensatoren, Keramikrippenk�rper, Luf'tspule L 10, Anodendrossel und die beiden Sender�hren. F�r ausreichende Luftk�hlung sorgt hier ein Ventilator mit 160 m3/h und eine entsprechende str�mungsg�nstige Luftf�hrung.

Im unteren Teil der Endstufe sind die Bauteile : Steuerungselemente, Verdrahtung, L�tleisten, Steckerzuf�hrung, Hochspannungsanschlu�, R�hrenfassungsanschl�sse, HF-Eingangsteil mit Bahnwahlschalter, Antennenanschl�sse, Antennenrelais sowie die Katodendrossel zu finden.

Zur Bedienung und �berwachnung sind in die Frontplatte eingebaut : Plate, Load, Bandwahl-Ausgangsschalter, Betriebsartenschalter, Me�ger�teumschalter, Me�ger�t-relativer HF-Output, Me�ger�t-Ia1/Ua usw., Bandwahl- Eingangsschalter, L�fterschalter, L�fter schnell/ langsam sowie zwei Leuchtdioden.

Auf der Ger�ter�ckwand befinden sich der Hochspannungsanschlu�, Soriau-Mehrpolstecker, Erdungsschrauben sowie der Amphenolsteckeranschlu� zur externen Steuerung. Das gesamte Geh�use konnte mit einem feinperforierten Deckel allseitig geschlossen werden.

Wesentliche Informationen sind noch zu den elektrischen Verdrahtungen und Aufbauten noch anzuf�gen : S�mtliche Spannungsanschl��e sind mit Keramikscheiben und MKS-Kondensatoren gegen HF abgeblockt worden. Der Hochspannungsanschlu� wurde aus Polyamid hergestellt und hatte eine eingebaute 4 mm Buchse zur Aufnahme des Hochspannungsanschlu�steckers. Als Hochspannungskabel wurde eine spannungsfeste Ausf�hrung mit 1mm2 Querschnitt gew�hlt. Zur Kontaktierung des Verbindungskabels zur Endstufe wurde ein mehrpoliger Soriaustecker bzw. Kupplung gew�hlt, wobei der Stecker in die Geh�user�ckwand der Endstufe eingebaut ist. Netzteil und Endstufe wurden au�erdem zum besseren Potentialausgleich zus�tzlich mit 6 mm2 Erdungs- leitungen verbunden.

S�mtlich Hochspannungskabel und Anschl�sse sind sowohl im Netzteil wie auch in der Endstufe zus�tzlich mit Silikonschl�uchen versehen, was ganz erheblich zur besseren Isolierung beitrug. Damit der Spannungsverlust auf den Heizleitungen mit 5V/30 A so gering als m�glich blieb, mu�ten entsprechend starke Kabelquerschnitte verwendet werden (hier 6 mm2). Um die Ausgangs- schwingkreisverluste der Endstufe so gering als m�glich zu halten, wurden hier ausschlie�lich 14 mm breite und 1 mm starke versilberte Kupferb�nder eingesetzt. Die R�hrenanschlu�sterne sind mit flexiblen, starkgeflochtenen Kupferb�ndern zum Auskoppelkondensator C35 (1000 pF/12 KV) verbunden.

Weitere Einzelheiten der Verdrahtung sind direkt dem Schaltplan in den Bildern 1 und 2 sowie den beigef�gten Tabellen 3 - 9 zu entnehmen.

4. Theoretische Grundlagen

Die Grundlagen dieser Ger�tebeschreibung bilden in ersten Linie die praktischen Kenntnisse und Erfahrungen zum Selbstbau einer solchen

Linearendstufe. Da es aber nicht ganz ohne die notwendigen theoretischen Kenntnisse geht, die zum Bau einer solchen Endstufe erforderlich sind, wird jeder wissen, der sich schon mit dem Selbstbau befa�t. Hier sollen nur die wichtigsten theoretischen Grundlagen kurz erl�utert und dargestellt werden, die auch zum Teil bei dem Bau dieser Endstufe mitgewirkt haben. Die grunds�tzliche Arbeitsweise einer solchen KW- Linearendstufe wird hierbei vorausgesetzt. Wer dar�ber hinaus seine Kenntnisse weiter vertiefen m�chte, dem sei auf die unten angegeben Literaturquellen hingewiesen.

Wie aus der Grundschaltung in Bild 3 zu sehen ist, wird die Hochfrequenzleistung �ber ein breitbandiges Eingangs-Filter symmetrisch in die Katode eingekoppelt.

Die Auskoppelung erfolgt hier durch das vielbew�hrte selektive Ausgangs-PI-Filter. Das Gitter der beiden R�hren liegt bei der Gitterbasisschaltung, die auch grounded-grid genannt wird, sowohl gleich, wie auch wechsel- spannungsm��ig direkt an Masse und bildet so eine nat�rlich Abschirmung zwischen Katode und Anode, ohne das die R�hre ihre Verst�rkereigenschaft verliert.

Der Arbeitspunkt wird hierbei �ber eine automatische Gittervorspannung erzeugt (indem die Katode positiver gegen�ber dem Gitter gesetzt ist), die durch den Arbeitswiderstand im Katodenkreis, hier die Zenerdiode D 1, festgelegt ist. Der Arbeitspunkt ist so gew�hlt, da� sich im AB-1-Betrieb eine Katodenspannung von Uk = 55 - 60V bei einer Anodenspannung von Ua = 2600 V/DC einstellt. Hierdurch ist sichergestellt, da� sich der Arbeitspunkt immer noch im teillinearen Bereich der Triodenkennlinie befindet. Der Ruhestrom betrug hierbei 80 mA/R�hre. Die beiden Drosseln Dr. 2/3 dienen zur Unterdr�ckung von Huth-K�hn-Schwingungen, die durch sch�dliche Gitter- Anodenkapazit�ten Cg-a1 und Cg-a2 = 14 pf hervorgerufen werden. Damit die eingekoppelte HF-Leistung nicht �ber die Heizleitung zum Netztrafo (direkt geheizte Katode) abflie�t, sind zwei Heizdrosseln Dr. 4/5 erforderlich. Sie m�ssen den Heizstrom (Ih = 30 A) und den Katodenstrom (Ikmax. = 1,0 A) ohne gro�e Verluste f�hren k�nnen. Die hier erstellte Ausf�hrung hatte einen Querschnitt von ann�hernd 3,2 mm2 bei einer Induktivit�t von Lh = 2,2 mH.

Vorteile der Gitterbasisschaltung mit 2 parallel betriebenen Trioden

* Eingangs- und Ausgangsspannung sind in Phase, es sind keine Neutralisation oder besondere Abschirmungen erforderlich
* die Treiberleistung wird nicht in W�rme umgesetzt, sondern durch die Endstufe durchgereicht
* Wahl des Arbeitspunktes im teillinearen Bereich der Triodenkennlinie (geringere nichtlineare Verzerrungen und deren Mischprodukte) im AB-1 Betrieb
* durch die Parallelschaltung l��t sich die Ausgangsleistung fast verdoppeln
* einfacher Aufbau des Eingangs- und Ausgangskreises
* geringere Treiberleistung als bei Tetroden oder Pentoden erforderlich
* einfacher Aufbau des Netzteiles, da nur wenige Spannungen

erforderlich sind

* finanzieller Vorteil durch die Verwendung von zwei ,,kleineren" R�hren gegen�ber einer wesentlich teureren gro�en R�hre

Als Nachteile sind zu nennen :

* Summierung der R�hrenkapazit�ten (Cga1 + Cga2), was zur Herabsetzung der Grenzfrequenz und somit zur Leistungsminderung auf den oberen B�ndern f�hrt
* Beg�nstigung von Huth-K�hn-Schwingungen durch Cgal + Cga2
* durch den sehr niederimpedanten Eingangswiderstand (Re = 62.5 Ohm) ist eine relativ hohe Treiberleistung erforderlich
* da zwei Triodenkennlinien keinen absolut gleichen Verlauf aufweisen, steigen die nichtlinearan Verzerrungen (Intermodulationsst�rungen und deren Mischprodukte) gegen�ber der Verwendung von nur einer R�hre wieder etwas an

5. Berechnung der Eingangs- und Ausgangsbedingungen

Der Eingangswiderstand der R�hre berechnet sich gem�� Bild 4.

Damit liegen die errechneten Eingangs- und Innnenwiderst�nde vor: RE ~ 62,5 Ohm, Ri ~ 1,75 KOhm

Aufgabe der Eingangs- und Ausgangs-PI-Filter ist es, den Eingangswiderstand von Zein- = 50 Ohm auf Rein~ 62,5 Ohm herauf- und den Innenwiderstand von Ri = 1,75 KOhm auf Zaus = 50 Ohm herab- zu transformieren. Da die komplexe Berechnung von Filtern den Rahmen dieser Beschreibung sprengen w�rde, kann hier nur auf den entsprechenden Literaturquellen verwiesen werden.

Die in Bild 5 aufgef�hrte Tabelle mit s�mtlichen Berechnungen und Werten f�r die Ausgangs- PI-Filter wurde nach Unterlagen von DJ6HP (Kurzwellen- und Amateurfunktechnik) und DL3CI (CQ-DL 9/80) zusammengestellt.

Die G�te Q wurde hier mit ~11 angesetzt, was in der Praxis einen guten Kompromi� zwischen hoher G�te (gro�e Resonanzstr�me und damit verbundenen Verlusten) und selektiver Oberwellenunterdr�ckung darstellt. Zum Vergleich sind auch noch die einem mit Induktivit�tsme�ger�t als Frequenzz�hlervorsatz gemessenen und unabh�ngig von den PI-Filterberechnungen ermittelten Spulendaten eingetragen.

Die Berechnungsformel f�r einlagige Luftspulen ist in Bild 5 mit angegeben.

Die Tabelle in Bild 5 zeigt deutlich, da� sich auf den oberen B�ndern der induktive Aufbau des Ausgangs-PI-Filters schon bemerkbar macht (errechnete Induktivit�t und Sollinduktivit�t zur gemessenen Induktivit�t).
Ansonsten sind die errechneten Daten in der Gr��enordnung zu finden, die sich auch sp�ter praktisch einstellten.

Das Eingangsfilter wurde breitbandig ausgelegt und hat eine G�te Q von ~ 2.0. Auf ein weiteres Berechnungsbeispiel wurde an dieser Stelle verzichtet. So sind deren Daten direkt der Tabelle 1 aus Bild 6 entnehmbar.

Mit dem Eingangsbandwahlschalter ist auch eine direkte HF-Einspeisung ohne das Eingangsfilter in Schalterposition 7 m�glich. Es zeigte sich aber deutlich, da� diese kleine Fehlanpassung von Zein = 50 Ohm und Rein ~ 62,5 Ohm zu einer Leistungsverminderung von 10 - 20 % am Ausgang der Endstufe f�hren kann. Au�erdem wird der Intermodulationsabstand des Ausgangssignales bei dieser Arbeitsweise um etwa 5 dB geringer anzusetzen sein. Das Stehwellenverh�ltnis SWR f�r den Endstufeneingang mit diesem Eingangsfilter lag auf allen B�ndern unter 1 : 2,0.

6. Leistungsverst�rkung der Endstufe

Wie aus Tabelle 4 in Bild 8 zu sehen ist, betr�gt die Leistungsverst�rkung :
V = 10 Log. * Pout/Pin (in dB) auf allen B�ndern zwischen 9,21 und 9,81 dB.

Diese Leistungsverst�rkung reicht aus, um bei einer Ansteuerleistung von 80 - 100 Watt (auf allen B�ndern) auch noch sichere 750 Watt - Ausgangsleistung zu erhalten. Der Abfall der Leistungs- verst�rkung zu den h�heren B�ndern, ist bei dem Ansteuertransciver wesentlich st�rker ausgepr�gt (hier der Kennwood TS-515 mit bis zu 1,2 dB), als bei der Endstufe, wo der Leistungsabfall ca. 0,6 dB betr�gt. Dies ist auf den soliden Aufbau des HF-Eingangs- und Ausgangskreises sowie der Verwendung der beiden steilen Trioden zur�ckzuf�hren. Der Endstufenwirkungsgrad liegt auch hier, wie erfahrungsm�� bekannt, im AB-1 Betrieb zwischen 50 - 60%.

7. Schaltungsbeschreibung

Wie aus dem Schaltplan des Netzteiles der Linearendstufe in Bild 2 zu sehen ist, sind dort die notwendigen Transformatoren, Gleichrichter und Steuerungelemente untergebracht. Die beiden Hochspannungstransformatoren m4 und m4 werden durch Bet�tigung des Steuerrelais d1 (Anodenspannung-EIN) �ber zwei parallelgeschaltete Widerst�nde (R4/R5 von 150 Ohm/7W) eingeschaltet. Deren �berbr�ckung erfolgt zwei Sekunden zeitverz�gert durch d2. Diese bekannte Einschaltungsart von gro�en Transformatoren vermindert den Rush-Effekt f�r konventionelle 16A/H- oder L-Automaten der Netzabsicherung.

Das Hochspannungsnetzteil ist sehr spannungssteif ausgef�hrt und beinhaltet nur leistungskr�ftige Bauteile. Als Hochspannungsgleichrichter ist ein Drehstrombr�ckengleichrichter mit 4500V/DC Sperrspannung und 1,8 A Nennstrom verwendet. Die Hochspannungsgl�ttungskondensatoren bestehen aus zwei Bosch MP-Kondensatoren von jeweils 15uF/3KV. Die erforderlichen Versorgungsspannungen von +165V/0.2A, 12V/2A sind in bekannter Form erzeugt. Alle Spannungen mit Ausnahme der Hochspannung, werden �ber eine mehrpolige Soriau-Buchse und Stecker zur Endstufe gef�hrt. Bei hoher Strombelastung (Heizspannung) sind mehrere Steckerstifte parallel geschaltet. Verschiedene Funktionen sind optisch mit Leuchtdioden angezeigt. Verdrahtungsquerschnitte sind im Schaltplan, sofern erforderlich, angegeben.

Im Schaltplan von Bild 1 ist die Endstufe dargestellt.

Da zuvor die theoretischen Grundlagen der Gitterbasisschaltung f�r zwei parallelbetriebene Sendetrioden beschrieben worden ist, sind hierzu nur noch wenige Punkte anzuf�gen. Mit dem keramischen Eingangsbandwahlschalter b2 wird das komplette Eingangs-PI-Filter f�r alle B�nder umgeschaltet. Der keramische Ausgangs- bandwahlschalter b3 ist mit kr�ftigen Kontakten (hier f�r 50 A) ausgef�hrt, um die hohen Resonanzstr�me ohne gro�e Verluste f�hren zu k�nnen. Der Plate-Drehkondensator C 36 hat 250 pF bei 6 KV Spannungsfestigkeit und der Load-Drehkondensator C37 1000 pF bei 3KV Spannungsfestigkeit. Eine deutlich h�here Spannungsfestigkeit hat der Auskoppelkondensator C 35 bei 1000 pF/12 KV.

Aus Platzgr�nden wurde auf eine Abschlu�scheibendrossel L~2,5 mH, die parallel zu C 38 - C 41 liegen m��te, verzichtet. Diese Abschlu�scheibendrossel und galvanische Kopplung gegen Masse kann verhindern, da� bei durchgeschlagenem Auskoppelkondensator C 35 die Hochspannung an der Antenne anliegt. Da der Auskoppelkondensator eine Spannungsfestigkeit von 12 KV aufweist und sich eine maximale Anodenspitzenspannung von 8 KVss einstellt , ist diese M�glichkeit allerdings sehr gering. Achtung : Trotzdem immer einbauen !

S�mtliche Gitteranschl�sse sind mit keramischen Scheibenkondensatoren (C30 - C33 = 4700 pF) und Widerst�nden (R19 - R22 = 3,3 Ohm) abgeschlossen worden. Diese Widerst�nde erlauben au�erdem eine Gitterspannung bzw. Gitterstrommessung �ber den Me�bereichsumschalter b7 und das Anzeigeme�instrument g2. Der Eingang der Katodendrossel Dr. 1/2 s. Tabelle 3 in Bild 7) ist ebenfalls mit keramischen Scheibenkondensatoren C26/27 = 4700 pF abgeschlossen. Die Katodenspannung von 55 - 60 V (vom Mittelanschlu� des Heiztrafos �ber den Steckerpin) stellt sich �ber eine Reihen- und Parallelschaltung von Dioden (n 24 - n 187) und deren Durch- la�spannung ein. Diese Dioden m�ssen den Katodenstrom (hier max. 1,5 A) sicher f�hren k�nnen und die auch entstehende Verlustw�rme Pv - UK * IK = 48 Watt (bei ~ Ik = 0,8 A) aufnehmen k�nnen. Alternativ hierzu sind auch Zenerdioden, die auf einem K�hlblech isoliert aufgebaut sind, einsetzbar. Da Zenerdioden auf Grund unterschiedlicher Kennlinien und Zenerspannungen nicht parallel schaltbar sind, kommen somit nur leistungsstarke Fabrikate in Frage.

Nachteilig, und das gilt f�r beide Katodenspannungserzeugungsarten, ist die Tatsache, da� durch die Eigenerw�rmung die Diodenschwellspannung und somit auch die Zenerspannung sich etwas nach unten ver�ndert. Die in der Praxis ermittelte �nderung der Katodenspannung lag in der Gr��enordnung von etwa 10 %. Diese Auswirkungen (die Katodenspannung sinkt um etwa 10 % ab), nach der sich der Arbeitspunkt im AB-1 Betrieb etwas näher zum A-Betrieb hin verändert und den Katodenstrom etwas ansteigen läßt, hatte bei späteren praktischen Messungen allerdings keine größeren Auswirkungen.

Das Antennenrelais, eine kräftige 12V-Ausführung mit 15A Kontakten, ist in unmittelbarer Nähe der PL-Buchsen auf Gummiringen zur Schaltgeräuschverminderung montiert. Die Verbindung vom HF-Ausgangskreis zum Antennenrelais erfolgte mit einem 20 cm kurzen Koaxialkabel RG 58-U. Da sich dieses Koaxialkabel vorzüglich verarbeiten und biegen läßt, wurden bewußt kleinere Kabelverluste in Kauf genommen.

Ein kräftiger 230V/AC-Ventilator, der für eine ausreichende Kühlung sorgt, ist von der Frontplatte aus auf schnell bzw. langsam umschaltbar. Die gesamte Betriebsartensteuerung ist mit den 12-V Relais d3 - d6 aufgebaut und kann über den Betriebsartenschalter entsprechend vorgewählt werden. Zur externen PTT-Steuerung ist das Relais d6 benutzt. Eine HF-Vox-Steuerung ist nicht eingesetzt. Dies gilt ebenso für eine ALC-Spannungsgewinnung vom HF-Ausgangssignal zur Leistungssteuerung des Ansteuertranscievers. Nachteilig war dies beim späteren Betrieb nicht.

Mit dem Meßbereichsumschalter und Anzeigeinstrument g2 können folgende Spannungen und Ströme während des Betriebs gemessen werden:
1 - Ua, 2 - Ik, 3 - Igl, 4 - IgR1, 5 - IgR2, 6 - Uver+165V, 7 - Uver +12V

Mit dem Anzeigeinstrument gl ist der relative HF-Output (nicht frequenzkompensiert) moderat angezeigt. Im Stand-by-Betrieb wird die Katodenspannung auf + 165 V gelegt, was zur absoluten Sperrung der beiden Trioden bei Ua=2800V ausreicht. Wichtige Schaltungszustände sind optisch mit den Leuchtdioden LED 3 und 4 signalisiert.

Sämtliche Versorgungs- und Steuerspannungen werden gegen die Hochfrequenz mit entsprechenden Kondensatoren abgeblockt. Die Anodendrossel Dr. 3 (s. Tabelle 3 in Bild 7) ist einlagig auf einem Keramikkörper aufgebracht worden und dient zur Zuführung der Hochspannung in den Anoden- kreis. Der keramische Hochspannungskondensator c34 = 5000 pF/5KV blockt hierbei die HF vom ,,kalten Ende" der Drossel ab.

8. Verwendete Meßgeräte und Meßverfahren

Folgende Meßgeräte und Hilfsmittel standen zum Selbstbau der Linearendstufe zur Verfügung :

- 100 MHz - Zweistrahlloszilloskop, Typ: HM 512 N
- Heathkit - Wattmeter HM 102/1 KW
- Dummyload HN 31/1 KW
- L- und C-Meßgeräte als Frequenzzählervorsätze
- SVR-Meßgeräte 1 KW
- Tongenerator 1 - 100 KHz
- sowie verschiedene konventionelle analoge und digitale Volt- und Amperemeter.

Leider stand zur Messung des Intermoduationsabstandes und Spektrums kein Zweitonsignalgenerator und Spektrumanalysator zur Verf�gung. Der Abstand der Intermodulationsprodukte 3. Ordnung des Ausgangssignales liegt erfahrungsgem�� bei ca. 40 dB vom Sollsignal und sollte bei Linearendstufen noch etwa um den Faktor der Leistungsverst�rkung, hier 9,5 dB, h�her anzusetzen sein, damit die effektiven Intermodulationsst�rungen und deren Mischprodukte bei gegebenem Abstand zum Sollsignal bei gr��erer Ausgangsleistung auch im gleichen Verh�ltnis klein bleiben. Beim sp�teren Betrieb der Linearendstufe, und dies wurde in vielen QSO's vom jeweiligen Gespr�chspartner best�tigt, sind keine unerw�nschten Verzerrungen oder Splatter sowie Nebenausstrahlungen aufgetreten.

Dennoch sind vor dem Betrieb der Endstufe einige Ausgangssignale oszillographiert, die mit den vorhandenen technischen Mitteln m�glich waren. Hierbei war kein sogenanntes flat-topping zu beobachten und die HP-Amplitude zeigte sich als reine Sinusform. Auch konnten keine unerw�nschten Phasendifferenzen zwischen Eingangs und Ausgangskreis, die durch falsche �bersetzungsverh�ltnisse des Ausgangskreises und deren Blindkomponenten entstehen k�nnen, festgestellt werden. Solche Phasendifferenzen k�nnen ebenfalls zu Fehlanpassungen und Fehlabstimmungen mit den bekannten Auswirkungen f�hren.

9. Praktische Betriebserfahrungen

Die genannte KW-Linearendstufe ist in dieser Applikation mit dem KW-Kennwood-Transciver TS-515 angesteuert. Als Antenne ist ein Doppeldipol f�r 80 und 40 m sowie ein Dreielement-Beam von Hygain TH3-MHK in 28 m H�he verwandt. Die praktischen Betriebserfahrungen mit dieser Selbstbau-Endstufe sind als sehr gut zu bezeichnen. Auch die Abstimung des Transcivers auf den Endstufeneingangskreis und die Abstimmung des Endstufenausgangskreises an die Antenne ist auf allen B�ndern ohne Probleme durchzuf�hren. Die Stehwellenverh�ltnisse betragen auf 10, 15 und 20 m mit dem Beam etwa 1 : 2.0 und bei den Doppeldipolen (die nur 2 m �ber dem Hausdach aufgebaut sind) etwa 1 : 2,0 bis 1 : 3,2.

Sehr von Vorteil ist auch die Zweistufenumschaltung des kr�ftigen Ventilators, der in der zweiten Stufe schon h�rbare Windger�usche verursacht, die bei leisen Empfangsdurchg�ngen st�ren k�nnen. RTTY- oder CW Betrieb wurde bisher mit dieser Endstufe noch nicht ausge�bt. Es zeigten sich aber auch bei langen Phonie-Durchg�ngen keine �berlastungen der R�hren. Die Anoden der R�hren erhielten lediglich eine r�tliche F�rbung, was als ,,normaler". Betriebszustand anzusehen ist. Durch die str�mungsg�nstige Luftf�hrung wurde die Verlustw�rme auch sehr schnell aus dem Geh�use herausgetragen. Ein gro�er Vorteil ist ebenfalls die M�glichkeit, st�ndig alle Spannungen und Str�me mit dem eingebauten Me�instrument zu �berwachen, ohne hierzu das eingebaute Outputmeter umzuschalten.

Die sichere Funktion, Arbeitsweise und Leistungsf�higkeit eines jeden Selbstbauger�tes ist hierbei auch der beste Erfolg f�r den Funkamateur.

10. Literaturquellen

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Bild 1 : Schaltplan der HF-Endstufe
Bild 2 : Schaltplan des Hochleistungsnetzteil
Bild 3 : Roehrengrundschaltung
Bild 4 : Eingangs- und Ausgangsbedingungen
Bild 5 : Tabelle und Berechnung des Ausgangs-PI-Filters
Bild 6 : Daten des Eingangs- und Ausgangs-PI-Filters
Bild 7 : Heizdrossel, Anodendrossel und Anodenwiderst�nde
Bild 8 : Eingangs- und Ausgangsleistungen der Endstufe
Bild 9 : Daten der Sendetriode T-380-1 von ABB

From 1450688466065342758
X-Google-Thread: fc2a5,f38d6d9287e6e350
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Subject: Re: Testing a mixer..
From: chuck <nospam@nospam.org>
Date: Mon, 05 Feb 2007 18:15:19 -0500
Message-ID: <1170717402_10447@sp6iad.superfeed.net>
References: <1170699202.802624.38420@s48g2000cws.googlegroups.com>
Lines: 36
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!newspeer1.nwr.nac.net!news-out2.newsfeeds.com!local!sp6iad.superfeed.net!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
X-Proxy-User: $$x38rj
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)

```
MIME-Version: 1.0
In-Reply-To: <1170699202.802624.38420@s48g2000cws.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Report:  Please report illegal or inappropriate use to <abuse@newsfeeds.com>.
Forward a copy of ALL headers INCLUDING the body. (DO NOT SEND ATTACHMENTS)
X-Comments2:  IMPORTANT: Newsfeeds.com does not condone,support,nor tolerate spam
or any illegal or copyrighted postings.
X-Comments:  This message was posted through Newsfeeds.com
Organization:  Superfeed.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8956

phlnxsc@gmail.com wrote:
> Hi,
>
> I have built two mixers for a direct conversion receiver. One of them
> a single transistor mixer, the other one is a single balanced diode
> mixer. I already have AF amplifier and LO stages. I think both are
> working fine seperately, but i can't hear anything when i connect the
> LO and the amplifier to the mixers(either of them of course). Is there
> any way that i can test these two mixers without test equipment like
> an oscilloscope or a signal generator? I also don't have a RF probe
> right now, only a multimeter. Actually i have another questions with
> this receiver, too, but this is where i am stuck at the moment.
>
> (LO is a crystal controlled one. I built a VFO, too, but didn't manage
> to get it working, for now. )
>
> Thanks in advance...
>

And you have verified that the LO is working?

----== Posted via Newsfeeds.Com - Unlimited-Unrestricted-Secure Usenet News==----
http://www.newsfeeds.com The #1 Newsgroup Service in the World! 120,000+
Newsgroups
----= East and West-Coast Server Farms - Total Privacy via Encryption =----


From -4413888724947964358
X-Google-Thread: fc2a5,95e03fc7c8113f35,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h3g2000cwc.googlegroups.com!not-for-
mail
From: "incrediblejoe@gmail.com" <incrediblejoe@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: do you want to turn 6 dollars into thousand...A MUST SEE
Date: 5 Feb 2007 16:37:43 -0800
Organization: http://groups.google.com
Lines: 252
Message-ID: <1170722263.286340.212920@h3g2000cwc.googlegroups.com>
NNTP-Posting-Host: 68.173.155.170
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170722268 19168 127.0.0.1 (6 Feb 2007 00:37:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 6 Feb 2007 00:37:48 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h3g2000cwc.googlegroups.com; posting-host=68.173.155.170;
   posting-account=rC02bw0AAAA3mgCAq4Hkk87_gATBCQVY
Xref: g2news2.google.com rec.radio.amateur.homebrew:8957
```

I found this in a news group and decided to try it. A little while back,
I was browsing through news groups, just like you are now and came across a message just like this, that said you could make thousands of dollars within weeks with only an initial investment of $6.00!!!

So I thought yeah right, this must be a scam!!! But like most of us, I was curious, so I kept reading. Anyway, it said that you send $1.00 to each of the 6 names and addresses stated in the message. You then place
your own name and address at the bottom of the list at #6 and post the message in at least 200 news groups. (There are thousands). No catch, that was it.

So after thinking it over, and talking to a few people first. I thought
about trying it. I figured, what have I got to lose except 6 stamps and
$6.00, right? So I invested the measly $6.00!!! Guess what? Within 7 days I started getting money in the mail!!! I was shocked!!! I figured it would end soon, but the money just kept coming in!!! In my first week, I had made about $25.00. By the end of the second week, I had made
a total of over $1,000.00!!! In the third week, I had over $10,000.00 and it is still growing!!! This is now my fourth week and I have made a
total of just over $42,000.00 and it is still coming in rapidly!!! It's
certanly worth $6.00 and 6 stamps!!! I have spent more than that on the
lottery!!!

Let me tell you how this works and most importantly, why it works!!! Also, make sure you
print a copy of this message now. So you can get the information off of
it as you need it. I promise you that if you follow the directions exactly, that you will start making more money than you thought possible
by doing something so easy!!!

Suggestion: Read this entire message carefully!!! (Print it out or download it.) Follow the simple directions and watch the money come in!!! It's easy!!! It's legal!!! Your investment is only $6.00 (plus postage).

IMPORTANT: This is not a rip-off!!! It is not illegal!!! ? It is almost entirely risk free and it really works!!! If all of the following instructions are adhered to, you will recieve extraordinary dividends!!!

Please note: Follow these directions EXACTLY, and $60,000.00 or more can be yours in 20 to 90 days!!! This program remains successful because of the honesty and the integrity of the participants!!! Please continue its success by carefully adhering to the instructions.

You will now become part of the mail order business. In this business your product is not solid or tangible, it is a service. You are in the business of developing mailing lists. Many large corporations are happy to pay big bucks for quality lists. However, the money made from a mailing list is secondary to the income which is made from people like you and me asking to be included on your mailing list!!!

Here are the 4 easy steps to success:

Step 1: Get 6 seperate pieces of paper and write the following on each piece of paper.

PLEASE PUT ME ON YOUR MAILING LIST

Now get 6 U.S. dollar bills and place ONE inside each of the 6 pieces of paper so the bills will not be seen through the envelopes (to prevent mail theft). Next, place one paper in each of the 6 envelopes and seal them, you should now have 6 sealed envelopes. Each with a piece of paper stating the above phrase, your name and address, and a $1.00 bill. THIS IS ABSOLUTELY LEGAL!!! YOU ARE REQUESTING A LEGITIMATE SERVICE AND YOU ARE PAYING FOR IT!!!

Like most of us, I was a little skeptical and a little worried about the legal aspect of it all. So I checked it out with the U.S. Postal Service and they confirmed that it is indeed legal!!!

Mail the 6 envelopes to the following addresses:

L.R.M.
1107 Panama St.
Houston, TX 77009

A.M.R.
23645 Cora
Brownstown, MI. USA 48183

K. Costello
20812 135 Ave SE
Kent, WA 98042 USA

B. Brown
1208 Steeple Ridge Ct
McKinney, Tx 75069 USA

J.Tompson
65-54 parsons blivd apt 1a
Flushing, NY
11365

Mourgo
27 Major Mackenzie Dr.
Suite 201
Richmond Hill, ON
L4C 1G7 CANADA

Step 2: Now take the #1 name off the list that you see above, move the other names up (6 becomes 5, 5 becomes 4, etc.) and add your name as number 6 on the list.

Step 3: Change anything you need to, but try to keep this message as close to what you see as possible. Now, post your amended message to at
least 200 news groups. I think there are close to 24,000 groups!!! All you need is 200, but remember, the more you post, the more money you make!!! This is perfectly legal!! If you have any doubts, refer to Title18 sec. 1302 & 1341 of the postal lottery laws. Keep a copy of these steps for yourself and whenever you need money, you can use it again.

Please remember that this program remains successful because of the honesty and the integrity of the participants and by their carefully adhering to the directions!!!

Look at it this way. If you are of integrity, the program will continue
and the money that so many others have recieved will come your way!!!

Note: You may want to retain every name and address sent to you, either on your computer or hard copy and keep the notes people send you. This verifies that you are truely providing a service. Also, it might be a good Idea to wrap the $1 bills in dark paper to reduce the risk of mail theft.

So, as each post is downloaded and the directions carefully followed, six members will be reimbursed for their participation as a list developer with one dollar each. Your name will move up the list geometrically so that when your name reaches the #1 position, you will be receiving thousands of dollars in cash!!! What an opportunity for only $6.00!!! ($1.00 for each of the first six people listed above).

Send it now, add your own name to the list and your in business!!!

DIRECTIONS FOR HOW TO POST TO A NEWS GROUP!!!

Step 1: You do not need to re-type this entire message to do your own posting. Simply put your cursor at the beginning of this message and drag your cursor to the bottom of this message and select copy from the edit menu. This will copy the entire message into the computer memory.

Step 2: Open a blank note pad file and place your cursor at the top of the blank page. From the edit menu select paste. This will paste a copy of the message into notepad so that you can add your name to the list.

Step 3: Save your new notepad file as a txt file. If you want to do your posting in a different setting, you'll always have this file to go back to.

Step 4: Use netscape or Internet Explorer and try searching for various news groups (on-line forums, message boards, chat sites, discussions, etc.)

Step 5: Visit these message boards and post this message as a new message by highlighting the text of this message from your notepad and selecting paste from the edit menu. Fill in the subject, this will be the header that everybody sees as they scroll through the list of postings in a particular group. Click the post message button. You've done your first one! Congratulations!!! All You have to do is jump to different news groups and post away, after you get the hang of it, it will take about 30 seconds for each news group!

REMEMBER, THE MORE NEWS GROUPS YOU POST IN, THE MORE MONEY YOU WILL MAKE!!!! (But you have to post a minimum of 200).

Thats it!!! You will begin receiving money from around the world within days!!! You may eventually want to rent a P.O. Box due to the large amount of mail you will receive. If you wish to stay anonymous, you can invent a name to use, as long as the postman will deliver it.

JUST MAKE SURE ALL THE ADDRESSES ARE CORRECT!!!

Now the why part. Out of 200 postings, say you recieve only 5 replies (a very low example). So then you made $5.00 with your name at #6 on the letter. Now, each of the 5 persons who sent you $1.00 make the minimum 200 postings, each with your name at #5 and only 5 persons respond to each of the original 5, that is another $25.00 for you. Now those 25 each make 200 MINIMUM posts with your name at #4 and only 5 replies each, you will bring in an additional $125.00!!!! Now, those 125 persons turn around and post the minimum 200 with your name at #3 and only recieve 5 replies each, you will make an additonal $625.00!!! OK, now here is the fun part, each of those 625 persons post a minimum 200 messages with your name at #2 and they each only recieve 5 replies, that just made you $3,125.00!!! Those 3,125 persons will all deliver this message to 200 news groups, If just 5 more reply you will receive $15,625.00!!! All with an original investment of only $6.00!!! Amazing isn't it!!!! When your name is no longer on the list, you just take the latest posting in the news groups and send out another $6.00 to the names on the list, putting your name at number 6 again.

You must realize that thousands of people all over the world are joining the internet and reading these messages every day!!! Just like you are now!!! So, can you afford $6.00 and see if it really works? I'm glad I did!!! People have said, "what if the plan is played out and no one sends you the money?" So what!!! What are the chances of that happening, when there are tons of new honest users and new honest people who are joining the internet and news groups everyday and are willing to give it a try? Estimates are at 20,000 to 50,000 new users, every day!!!

REMEMBER PLAY HONESTLY AND FAIRLY AND THIS WILL REALLY WORK!!!

IF EVERYONE PLAYS BY THE GAME AND SENDS THEIR $1 THERE IS NO SCAM! I HAVE LOOKED AT IT IN EVERY POSSIBLE ANGLE AND NOT ONLY ONE PERSON IS BENEFITING...WE ALL ARE IF WE FOLLOW THE INSTRUCTIONS. THINK ABOUT IT. WHAT DO YOU HAVE TO LOSE? THAT'S RIGHT $6! TRY IT!

```
From 4954365476412136612
X-Google-Thread: fc2a5,95e03fc7c8113f35
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
140.99.99.194.MISMATCH!news-in-02.newsfeed.easynews.com!easynews.com!easynews!
hwmnpeer01.phx!news.highwinds-media.com!hw-filter.phx!newsfe10.phx.POSTED!
53ab2750!not-for-mail
From: "Caveat Lector" <CL@nowhere.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1170722263.286340.212920@h3g2000cwc.googlegroups.com>
Subject: Re: do you want to turn 6 dollars into thousand...A MUST SEE
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <QtQxh.17187$4W5.10196@newsfe10.phx>
Date: Mon, 5 Feb 2007 17:03:45 -0800
NNTP-Posting-Host: 72.197.12.245
X-Complaints-To: admin@cox.net
X-Trace: newsfe10.phx 1170723824 72.197.12.245 (Mon, 05 Feb 2007 18:03:44 MST)
NNTP-Posting-Date: Mon, 05 Feb 2007 18:03:44 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:8958

Pray tell who were the first six guys on the list and who did they pay (;-)
See URL:
http://www.silcom.com/~barnowl/chain-letter/evolution.html


<incrediblejoe@gmail.com> wrote in message
news:1170722263.286340.212920@h3g2000cwc.googlegroups.com...
>I found this in a news group and decided to try it. A little while
> back,
> I was browsing through news groups, just like you are now and came
> across a message just like this, that said you could make thousands of
> dollars within weeks with only an initial investment of $6.00!!!
>
>SNIP CHOP DELETE




From 8465381392844939933
X-Google-Thread: fc2a5,95e03fc7c8113f35
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
```

```
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 05 Feb 2007 23:09:07 -0600
From: "John Doe" <hgorden@adelphia.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1170722263.286340.212920@h3g2000cwc.googlegroups.com>
Subject: Re: do you want to turn 6 dollars into thousand...A MUST SEE
Date: Tue, 6 Feb 2007 00:10:12 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <ppydnWSqbLzukFXYnZ2dnUVZ_ualnZ2d@adelphia.com>
Lines: 257
NNTP-Posting-Host: 69.162.152.98
X-Trace: sv3-
cL404KksxIfgf3TMUGMCbbkgsSAIarTOjjhaFYxUGg8gpAc4IbiO0aSpYLk3VOzFYITuMKB33QtFvhh!
7KdNo5P/SzrFywjSJGkBibyFvkYeHL5aajTIZjrbPve942G+rgHEi4n3/cKlhWMyFk/HttowgDEy!
iYxtNIlWj1AGBCFQbcREHwTROnh/
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8959

YEAH - AND ALL YOU DO IS FLOOD ALL OF THE NEWSGROUPS WITH SPAM - !!!!
<incrediblejoe@gmail.com> wrote in message
news:1170722263.286340.212920@h3g2000cwc.googlegroups.com...
>I found this in a news group and decided to try it. A little while
> back,
> I was browsing through news groups, just like you are now and came
> across a message just like this, that said you could make thousands of
> dollars within weeks with only an initial investment of $6.00!!!
>
> So I thought yeah right, this must be a scam!!! But like most of us, I
> was curious, so I kept reading. Anyway, it said that you send $1.00 to
> each of the 6 names and addresses stated in the message. You then
> place
> your own name and address at the bottom of the list at #6 and post the
> message in at least 200 news groups. (There are thousands). No catch,
> that was it.
>
> So after thinking it over, and talking to a few people first. I
> thought
> about trying it. I figured, what have I got to lose except 6 stamps
> and
> $6.00, right? So I invested the measly $6.00!!! Guess what? Within 7
> days I started getting money in the mail!!! I was shocked!!! I figured
> it would end soon, but the money just kept coming in!!! In my first
> week, I had made about $25.00. By the end of the second week, I had
```

> made
> a total of over $1,000.00!!! In the third week, I had over $10,000.00
> and it is still growing!!! This is now my fourth week and I have made
> a
> total of just over $42,000.00 and it is still coming in rapidly!!!
> It's
> certanly worth $6.00 and 6 stamps!!! I have spent more than that on
> the
> lottery!!!
>
> Let me tell you how this works and most importantly, why it works!!!
> Also, make sure you
> print a copy of this message now. So you can get the information off
> of
> it as you need it. I promise you that if you follow the directions
> exactly, that you will start making more money than you thought
> possible
> by doing something so easy!!!
>
> Suggestion: Read this entire message carefully!!! (Print it out or
> download it.) Follow the simple directions and watch the money come
> in!!! It's easy!!! It's legal!!! Your investment is only $6.00 (plus
> postage).
>
> IMPORTANT: This is not a rip-off!!! It is not
> illegal!!! ? It is almost entirely risk free and it really works!!! If
> all of the following instructions are adhered to, you will recieve
> extraordinary dividends!!!
>
> Please note: Follow these directions EXACTLY, and $60,000.00 or more
> can
> be yours in 20 to 90 days!!! This program remains successful because
> of
> the honesty and the integrity of the participants!!! Please continue
> its
> success by carefully adhering to the instructions.
>
> You will now become part of the mail order business. In this business
> your product is not solid or tangible, it is a service. You are in the
> business of developing mailing lists. Many large corporations are
> happy
> to pay big bucks for
> quality lists. However, the money made from a mailing list is
> secondary
> to the income which is made from people like you and me asking to be
> included on your mailing list!!!
>
> Here are the 4 easy steps to success:
>
> Step 1: Get 6 seperate pieces of paper and write the following on each
> piece of paper.
>
> PLEASE PUT ME ON YOUR MAILING LIST

>
> Now get 6 U.S. dollar bills and place ONE inside each of the 6 pieces
> of
> paper so the bills will not be seen through the envelopes (to prevent
> mail theft). Next, place one paper in each of the 6 envelopes and seal
> them, you should now have 6 sealed envelopes. Each with a piece of
> paper
> stating the above phrase, your name and address, and a $1.00 bill.
> THIS IS ABSOLUTELY LEGAL!!! YOU ARE REQUESTING A LEGITIMATE SERVICE
> AND
> YOU ARE PAYING FOR IT!!!
>
> Like most of us, I was a little skeptical and a little worried about
> the
> legal aspect of it all. So I checked it out with the U.S. Postal
> Service
> and they confirmed that it is indeed legal!!!
>
> Mail the 6 envelopes to the following addresses:
>
> L.R.M.
> 1107 Panama St.
> Houston, TX 77009
>
> A.M.R.
> 23645 Cora
> Brownstown, MI. USA 48183
>
> K. Costello
> 20812 135 Ave SE
> Kent, WA 98042 USA
>
> B. Brown
> 1208 Steeple Ridge Ct
> McKinney, Tx 75069 USA
>
> J.Tompson
> 65-54 parsons blivd apt 1a
> Flushing, NY
> 11365
>
> Mourgo
> 27 Major Mackenzie Dr.
> Suite 201
> Richmond Hill, ON
> L4C 1G7 CANADA
>
> Step 2: Now take the #1 name off the list that you see above, move the
> other names up (6 becomes 5, 5 becomes 4, etc.) and add your name as
> number 6 on the list.
>
> Step 3: Change anything you need to, but try to keep this message as
> close to what you see as possible. Now, post your amended message to

> at
> least 200 news groups. I think there are close to 24,000 groups!!! All
> you need is 200, but remember, the more you post, the more money you
> make!!! This is perfectly legal!! If you have any doubts, refer to
> Title18 sec. 1302 & 1341 of the postal lottery laws. Keep a copy of
> these steps for yourself and whenever you need money, you can use it
> again.
>
> Please remember that this program remains successful because of the
> honesty and the integrity of the participants and by their carefully
> adhering to the directions!!!
>
> Look at it this way. If you are of integrity, the program will
> continue
> and the money that so many others have recieved will come your way!!!
>
> Note: You may want to retain every name and address sent to you,
> either
> on your computer or hard copy and keep the notes people send you. This
> verifies that you are truely providing a service. Also, it might be a
> good Idea to wrap the $1 bills in dark paper to reduce the risk of
> mail
> theft.
>
> So, as each post is downloaded and the directions carefully followed,
> six members will be reimbursed for their participation as a list
> developer with one dollar each. Your name will move up the list
> geometrically so that when your name reaches the #1 position, you will
> be receiving thousands of dollars in cash!!! What an opportunity for
> only $6.00!!! ($1.00
> for each of the first six people listed above).
>
> Send it now, add your own name to the list and your in business!!!
>
> DIRECTIONS FOR HOW TO POST TO A NEWS GROUP!!!
>
> Step 1: You do not need to re-type this entire message to do your own
> posting. Simply put your cursor at the beginning of this message and
> drag your cursor to the bottom of this message and select copy from
> the
> edit menu. This will copy the entire message into the computer memory.
>
> Step 2: Open a blank note pad file and place your cursor at the top of
> the blank page. From
> the edit menu select paste. This will paste a copy of the message into
> notepad so that you
> can add your name to the list.
>
> Step 3: Save your new notepad file as a txt file. If you want to do
> your
> posting in a different setting, you'll always have this file to go
> back
> to.

> Step 4: Use netscape or Internet Explorer and try searching for
> various
> news groups (on-line forums, message boards, chat sites, discussions,
> etc.)
>
> Step 5: Visit these message boards and post this message as a new
> message by highlighting the text of this message from your notepad and
> selecting paste from the edit menu. Fill in the subject, this will be
> the header that everybody sees as they scroll through the list of
> postings in a particular group. Click the post message button. You've
> done your first one! Congratulations!!! All You have to do is jump to
> different news groups and post away, after you get the hang of it, it
> will take about 30 seconds for each news group!
>
> REMEMBER, THE MORE NEWS GROUPS YOU POST IN, THE MORE MONEY YOU WILL
> MAKE!!!! (But you have to post a minimum of 200).
>
> Thats it!!! You will begin receiving money from around the world
> within
> days!!! You may eventually want to rent a P.O. Box due to the large
> amount of mail you will receive. If you
> wish to stay anonymous, you can invent a name to use, as long as the
> postman will deliver it.
>
> JUST MAKE SURE ALL THE ADDRESSES ARE CORRECT!!!
>
> Now the why part. Out of 200 postings, say you recieve only 5 replies
> (a
> very low example). So then you made $5.00 with your name at #6 on the
> letter. Now, each of the 5 persons who sent you $1.00 make the minimum
> 200 postings, each with your name at #5 and only 5 persons respond to
> each of the original 5, that is another $25.00 for you. Now those 25
> each make 200 MINIMUM posts with your name at #4 and only 5 replies
> each, you will bring in an additional $125.00!!!! Now, those 125
> persons
> turn around and post the minimum 200 with your name at #3 and only
> recieve 5 replies each, you will make an additonal $625.00!!! OK, now
> here is the fun part, each of those 625 persons post a minimum 200
> messages with your name at #2 and they each only recieve 5 replies,
> that
> just made you $3,125.00!!! Those 3,125 persons will all deliver this
> message to 200 news groups, If just 5 more reply you will receive
> $15,625.00!!! All with an original investment of only $6.00!!! Amazing
> isn't it!!!! When your name is no longer on the list, you just take
> the
> latest posting in the news groups and send out another $6.00 to the
> names on the list, putting your name at number 6 again.
>
> You must realize that thousands of people all over the world are
> joining
> the internet and reading these messages every day!!! Just like you are
> now!!! So, can you afford $6.00 and see if it really works? I'm glad I
> did!!! People have said, "what if the plan is played out and no one

```
> sends you the money?" So what!!! What are the chances of that
> happening,
> when there are tons of new honest users and new honest people who are
> joining the internet and news groups everyday and are willing to give
> it
> a try? Estimates are at 20,000 to 50,000 new users, every day!!!
>
> REMEMBER PLAY HONESTLY AND FAIRLY AND THIS WILL REALLY WORK!!!
>
>
>
>
> IF EVERYONE PLAYS BY THE GAME AND SENDS THEIR $1 THERE IS NO SCAM! I
> HAVE
> LOOKED AT IT IN EVERY POSSIBLE ANGLE AND NOT ONLY ONE PERSON IS
> BENEFITING...WE ALL ARE IF WE FOLLOW THE INSTRUCTIONS. THINK ABOUT IT.
> WHAT DO YOU HAVE TO LOSE? THAT'S RIGHT $6! TRY IT!
>




From -5147408316222287916
X-Google-Thread: fc2a5,f38d6d9287e6e350
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!news.kjsl.com!
ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Testing a mixer..
Date: 6 Feb 2007 05:20:30 GMT
Organization: The National Capital FreeNet
Lines: 65
Message-ID: <eq936u$69s$1@theodyn.ncf.ca>
References: <1170699202.802624.38420@s48g2000cws.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1170739230 6460 134.117.136.48 (6 Feb 2007 05:20:30 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 6 Feb 2007 05:20:30 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8960

 (phlnxsc@gmail.com) writes:
> Hi,
>
> I have built two mixers for a direct conversion receiver. One of them
> a single transistor mixer, the other one is a single balanced diode
> mixer. I already have AF amplifier and LO stages. I think both are
> working fine seperately, but i can't hear anything when i connect the
> LO and the amplifier to the mixers(either of them of course). Is there
> any way that i can test these two mixers without test equipment like
> an oscilloscope or a signal generator? I also don't have a RF probe
```

> right now, only a multimeter. Actually i have another questions with this receiver, too, but this is where i am stuck at the moment.
>
> (LO is a crystal controlled one. I built a VFO, too, but didn't manage to get it working, for now.)
>
> Thanks in advance...
>

It would take a pretty lousy mixer to not get some mixing action. And since you hve an audio amplifier following it, even weak mixing action should provide a signal.

Hence the first step is to get a second local oscillator close to the frequency of the existing one, and then you'll hear the beat note out of the audio amplifier if things are working to some extent. If you only have crystal oscillators on the same frequency, they might not be far apart enough to get much of a beat note, but you'd be seeing some cycling of the output of the mixer (because the oscillators are beating together to generate an output so low in frequency that you can see it rather than hear it).

Stop one of the oscillators, and if that cycling goes away then you know things are working to some extent.

The advantage of crystal oscillators is that you can get some 4pin TTL oscillators cheap, and they will be strong enough to check things out. Their exact frequency won't matter at this point but wire them up properly and you can be fairly certain that they will work, unlike building up oscillators from scratch. Your problem might be that the mixer isn't working properly so only strong signals will result in output.

Once you get some mixing action then you can move one oscillator away from a direct connection to the mixer, and treat it like a "weak" signal coming in through the antenna.

Make an RF probe, a coupling capacitor and a diode and a load resistor, and connect it to your multimeter. (Make it a "probe" in that the coupling capacitor should have short lead connect directly to the rest of your probe circuit. You then touch the short capacitor lead directly to the oscillator, rather than running a long lead between the oscillator and the probe.) Since it's DC coupled, you won't get a reading on the meter unless the oscillator is oscillating. YOu can always verify by removing power from the oscillator, and when the needle drops, you know the oscillator has been turned off. Of course, one has to be careful because if you load down the oscillator too much, that may kill the oscillation.

If you have a shortwave radio, tune it to try to find your oscillators, to see if they are oscillating, and in the case of the LC oscillator, where its frequency is. If you don't have an oscillator at a suitable frequency, then you might not know if things are working if there's no signal on that frequency.

```
  Michael  VE2BVW



From -2426199186099886184
X-Google-Thread: fc2a5,d33915a591873c51
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!tiscali!
newsfeed1.ip.tiscali.net!draco.tiscalinet.it!news-f1.tiscali.it!not-for-mail
From: "Meregalli" <merega@tiscali.it>
Newsgroups: rec.radio.amateur.homebrew
References: <45c11e61_1@x-privat.org>
<1170521925.383299.4670@v45g2000cwv.googlegroups.com> <45c4cc0a_2@x-privat.org>
<45c656c2$0$7752$5fc30a8@news.tiscali.it> <45c74865$1_3@x-privat.org>
Subject: Re: 3P41 Transmiting Tube Data Need
Date: Tue, 6 Feb 2007 10:11:52 +0100
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Lines: 7
Message-ID: <45c84659$0$7746$5fc30a8@news.tiscali.it>
Organization: Tiscali SpA
NNTP-Posting-Host: 84.223.86.35
X-Trace: 1170753113 news.tiscali.it 7746 84.223.86.35:2714
X-Complaints-To: abuse@tiscali.it
Xref: g2news2.google.com rec.radio.amateur.homebrew:8961

Heriberto wrote:
> "Meregalli" <merega@tiscali.it> escribi=F3 en el mensaje
> news:45c656c2$0$7752$5fc30a8@news.tiscali.it...
> Heriberto wrote:
>> Tks TErry for your reply, but no is SP41, is 3P41, a Japan =
Transmision
Try this link: http://www.qsl.net/dl7avf/roehren/index.html



From -5502111555604708185
X-Google-Thread: fc2a5,f38d6d9287e6e350
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v45g2000cwv.googlegroups.com!not-for-
mail
From: phlnxsc@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Testing a mixer..
Date: 6 Feb 2007 01:46:49 -0800
```

Organization: http://groups.google.com
Lines: 91
Message-ID: <1170755209.798599.83930@v45g2000cwv.googlegroups.com>
References: <1170699202.802624.38420@s48g2000cws.googlegroups.com>
   <1170717402_10447@sp6iad.superfeed.net>
NNTP-Posting-Host: 85.107.178.218
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170755216 8144 127.0.0.1 (6 Feb 2007 09:46:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 6 Feb 2007 09:46:56 +0000 (UTC)
In-Reply-To: <1170717402_10447@sp6iad.superfeed.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; tr; rv:1.8.1.1) Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v45g2000cwv.googlegroups.com; posting-host=85.107.178.218;
   posting-account=NpE-yA0AAAAh2Gb39c5TBmFfsHehXa77
Xref: g2news2.google.com rec.radio.amateur.homebrew:8962

-On Feb 6, 1:15 am, chuck <nos...@nospam.org> wrote:

> And you have verified that the LO is working?

I think it is, because when i turn it on with an alligator clip
attached to it's output, i hear a humming sound at the nearby receiver
- which is an envelope detector connected to a LM386 amplifier. It
means that it's working, right?

-On Feb 6, 7:20 am, e...@FreeNet.Carleton.CA (Michael Black) wrote:

> It would take a pretty lousy mixer to not get some mixing action. And
> since you hve an audio amplifier following it, even weak mixing action
> should provide a signal.
>
> Hence the first step is to get a second local oscillator close to the
> frequency of the existing one, and then you'll hear the beat note out
> of the audio amplifier if things are working to some extent. If you
> only have crystal oscillators on the same frequency, they might not be far
> apart enough to get much of a beat note, but you'd be seeing some cycling
> of the output of the mixer (because the oscillators are beating together
> to generate an output so low in frequency that you can see it rather
> than hear it).
>
> Stop one of the oscillators, and if that cycling goes away then you
> know things are working to some extent.
>
> The advantage of crystal oscillators is that you can get some 4pin TTL
> oscillators cheap, and they will be strong enough to check things out.
> Their exact frequency won't matter at this point but wire them up
> properly and you can be fairly certain that they will work, unlike
> building up oscillators from scratch. Your problem might be that
> the mixer isn't working properly so only strong signals will result in output.

>
> Once you get some mixing action then you can move one oscillator away from a direct connection to the mixer, and treat it like a "weak" signal coming in through the antenna.
>
> Make an RF probe, a coupling capacitor and a diode and a load resistor, and connect it to your multimeter. (Make it a "probe" in that the coupling capacitor should have short lead connect directly to the rest of your probe circuit. You then touch the short capacitor lead directly to the oscillator, rather than running a long lead between the oscillator and the probe.) Since it's DC coupled, you won't get a reading on the meter unless the oscillator is oscillating. YOu can always verify by removing power from the oscillator, and when the needle drops, you know the oscillator has been turned off. Of course, one has to be careful because if you load down the oscillator too much, that may kill the oscillation.
>
> If you have a shortwave radio, tune it to try to find your oscillators, to see if they are oscillating, and in the case of the LC oscillator, where its frequency is. If you don't have an oscillator at a suitable frequency, then you might not know if things are working if there's no signal on that frequency.
>
>   Michael VE2BVW

Actually, i first tought, that if i would connect the LO to the mixer and attach a long wire to the antenna port, i could hear something useful that is near the crystal frequency (7159 KHz) and determine if the mixer is working or not. A funny thought i guess.

So back to your suggestion; I have a few more of these crystals and i can build a second same oscillator for this test. I will also try the cheap TTL oscillators you mentioned if the above test fails. If it doesn't work too, i think i can be sure that the mixer isn't working. (By the way, i've got the oscillator schematic from http://www.geocities.com/raiu_harrison/mwa/tech/circuits/osc-xtal.html this page (the first one))

I would like to build a diode-ring mixer which is mentioned everywhere on the net, but those toroids used in transformers are just too hard to find here. That's why i used a ferrite rod, salvaged from an old radio, in that diode mixer. Should using ferrite rods or other core materials instead of toroids cause problems?

I build the RF probe you explained on a piece of PC board (got the component values from the N5ESE's Classic RF Probe page) and when i get the coaxial cable, that is needed to connect it to the multimeter, i will test those oscillators with it, too. And i have digital meter not an analog one. But both should work OK, i think.

And lastly, i don't have a shortwave receiver but when i go to buy some stuff again, i will also get some crystals whose frequency is in the AM band in order to listen for the oscillator signal in an AM

```
radio.

Thank you for your interest..




From -8591131171718143500
X-Google-Thread: fc2a5,d33915a591873c51
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news1.google.com!news.maxwell.syr.edu!
newsfeed00.sul.t-online.de!t-online.de!tiscali!newsfeed1.ip.tiscali.net!
draco.tiscalinet.it!news-f2.tiscali.it!not-for-mail
From: "Meregalli" <merega@tiscali.it>
Newsgroups: rec.radio.amateur.homebrew
References: <45c11e61_1@x-privat.org>
Subject: Re: 3P41 Transmiting Tube Data Need
Date: Tue, 6 Feb 2007 17:20:01 +0100
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Lines: 13
Message-ID: <45c8aab2$0$20822$5fc30a8@news.tiscali.it>
Organization: Tiscali SpA
NNTP-Posting-Host: 84.223.72.124
X-Trace: 1170778802 news.tiscali.it 20822 84.223.72.124:3639
X-Complaints-To: abuse@tiscali.it
Xref: g2news2.google.com rec.radio.amateur.homebrew:8963

Heriberto wrote:
> Hi All:
>            I try found the data of 3P41 japan tube transmiting, but no
> hhave good luck.-  Anyone have this data ? Tks in aadvance.-
>=20
>=20
> REgards
> Heriberto
> LU6DBU

Try this link:
http://www.worldtubeaudio.com/forum/frameset.htm
Luca


From 618693316416815831
X-Google-Thread: fc2a5,95e03fc7c8113f35
X-Google-Attributes: gidfc2a5,public
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p10g2000cwp.googlegroups.com!not-for-mail
From: "tack" <tack1@flash.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: do you want to turn 6 dollars into thousand...A MUST SEE
Date: 6 Feb 2007 08:50:50 -0800
Organization: http://groups.google.com
Lines: 24
Message-ID: <1170780650.083089.103210@p10g2000cwp.googlegroups.com>
References: <1170722263.286340.212920@h3g2000cwc.googlegroups.com>
NNTP-Posting-Host: 68.93.181.221
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170780656 2422 127.0.0.1 (6 Feb 2007 16:50:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 6 Feb 2007 16:50:56 +0000 (UTC)
In-Reply-To: <1170722263.286340.212920@h3g2000cwc.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p10g2000cwp.googlegroups.com; posting-host=68.93.181.221;
   posting-account=uKUyGwwAAAAkx11KnifX36YVybIZ6Qe1
Xref: g2news2.google.com rec.radio.amateur.homebrew:8964

I had to go back and delete that log post.

This is a pyramid scheme, and it is most definitely illegal. This is an old, old, scam. In this pyramid scheme, they try to pretend to get around the law by offering a "service". The legal entities here in the U.S. do not buy that cover, and will prosecute as per a pyramid scheme anyway. This so-called mailing list service never did work as a cover, and never will. In this scam, usually only the last name on the list, the originator of the scam, is valid. The other names are made up, taken from some other pyramid scheme list, or taken from a public record like a phone book.   Notice the last name on the list - a Canadian address. He thinks that he can skirt the law by living outside the US, but this is also illegal in Canada. He spammed a lot of groups, and he did not bother to create a profile. His e-mail is incrediblejoe@gmail.com.

I filed a complaint with the a complaint with the Internet Crime Complaint Center (IC3) in Canada, which is part of the Royal Canadian Mounted Police (RCMP). And the The Canadian Anti-fraud Call Centre (CAFCC). If anyone can think of another agency to report this guy to in Canada, Please do so. Is there a Canadian Attorney General?

From -1906044375404069282

```
X-Google-Thread: fc2a5,1fdda873784087dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news1.google.com!news.germany.com!newsfeed.utanet.at!
news-hub.siol.net!news.siol.net!not-for-mail
From: Spajky <Spajky@##volja.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Two QRP questions, one easy, the other, tricky...
Reply-To: Spajky@##volja.net
Message-ID: <76ihs2pvr0kdms04kk7e48175kpfefnbnb@4ax.com>
References: <1170079761.013134.323880@l53g2000cwa.googlegroups.com>
<F%0wh.19002$w91.475@newsread1.news.pas.earthlink.net>
<9K2wh.400$6z6.31@newsfe06.lga>
<ii6wh.21413$X72.19578@newsread3.news.pas.earthlink.net>
<Kp7wh.42$mv7.27@newsfe04.lga>
<Bhcwh.16978$pQ3.14259@newsread4.news.pas.earthlink.net>
<1170480187.735505.263030@v45g2000cwv.googlegroups.com>
X-Newsreader: Forte Agent 1.9/32.560
MIME-Version: 1.0
Content-Type: text/plain; charset=utf-8
Content-Transfer-Encoding: 8bit
Lines: 19
Date: Tue, 06 Feb 2007 19:29:25 +0100
NNTP-Posting-Host: 194.165.104.58
X-Complaints-To: abuse@siol.net
X-Trace: news.siol.net 1170786413 194.165.104.58 (Tue, 06 Feb 2007 19:26:53 MET)
NNTP-Posting-Date: Tue, 06 Feb 2007 19:26:53 MET
Organization: Slovenija OnLine - SiOL
Xref: g2news2.google.com rec.radio.amateur.homebrew:8965

On 2 Feb 2007 21:23:07 -0800, "mister35mm" <mister35mm@yahoo.co.uk>
wrote:

>OK OK boys... yes I know 2n2222's are wonderful and plentiful, but I
>have a heap of geriatric bipolar power transistor I thought it might
>be worth experimenting with:-
>
>2n3055 (three)
>
>2n3054 (four)

I used time ago with good success up to 100MHz & 1W
2n3053 ...



--
                Regards ,  SPAJKY ®
   mail addr. @ my site @ http://www.spajky.vze.com
   4y - "Tualatin OC-ed / BX-Slot1 / inaudible setup!"


From -5528441429573777745
X-Google-Thread: fc2a5,d33915a591873c51
```

X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
From: "Heriberto" <lu6dbu@tapalquenet.com.ar>
Newsgroups: rec.radio.amateur.homebrew
References: <45c11e61_1@x-privat.org> <45c8aab2$0$20822$5fc30a8@news.tiscali.it>
Subject: Re: 3P41 Transmiting Tube Data Need
Date: Tue, 6 Feb 2007 18:33:06 -0300
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 5.00.2919.6600
X-MIMEOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
NNTP-Posting-Host: $$6cknoaitsc1q.news.x-privat.org
Message-ID: <45c8f17f_2@x-privat.org>
Organization: X-Privat NNTP Server - http://www.x-privat.org
X-Authenticated-User: $$l1dodqu9tn$idhdv-zi5hlm-q
X-Complaints-To: abuse@x-privat.org
Path: g2news2.google.com!news2.google.com!news3.google.com!homer!news.glorb.com!news-spur1.glorb.com!news.glorb.com!x-privat.org!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8966

Hi Luca:
thanks, but I cannot find the data of this tube. They have not said me that he is similar to the P250A, but I can either find it. - Greetings

Heriberto

"Meregalli" <merega@tiscali.it> escribi� en el mensaje
news:45c8aab2$0$20822$5fc30a8@news.tiscali.it...
Heriberto wrote:
> Hi All:
>   I try found the data of 3P41 japan tube transmiting, but no
> hhave good luck.- Anyone have this data ? Tks in aadvance.-
>
>
> REgards
> Heriberto
> LU6DBU

Try this link:
http://www.worldtubeaudio.com/forum/frameset.htm
Luca

From 6753494562458695274
X-Google-Thread: fc2a5,63a5a07c199cc9a1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post02.iad01!roadrunner.com!not-for-mail

Date: Tue, 06 Feb 2007 18:09:35 -0500
From: Me Here <me@here.now>
User-Agent: Thunderbird 1.5.0.9 (X11/20070103)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: aprspoint 4.0 available, with improved tracking
References: <1170668356.317794.57700@v33g2000cwv.googlegroups.com>
In-Reply-To: <1170668356.317794.57700@v33g2000cwv.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 20
Message-ID: <45c90aaf$0$28180$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8967

How nice. An upgrade fee for one small enhancement (fix that should have been in the program originally) and some bug fixes. This program needs some major enhancements. These little enhancements and bug fixes every six months to a year are not cutting it. Stay away from APRSPoint. The author is ripping people off.

hxc98@yahoo.com wrote:
> When you are tracking a moving object, aprspoint will record all its
> positions on the map, and optionally connect them with lines to form a
> track. If you are tracking multiple moving objects at the same time,
> the map could get cluttered quickly. In this new version, you can
> choose to selectively remove an individual object's track, or remove
> all tracks on the map. This version also includes fixes for several
> bugs reported by the users. We have also tested it extensively on the
> Vista platform as well. Old keys will no longer work on this new
> version, please refer to the web site http://www.aprspoint.com for
> upgrade details.
>
> Michael Cai, KF6ZDM
>

From 2149683480920449298
X-Google-Thread: fc2a5,290cf736d2c47f04,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q2g2000cwa.googlegroups.com!not-for-mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Doerle Twinplex
Date: 6 Feb 2007 15:43:50 -0800
Organization: http://groups.google.com
Lines: 21
Message-ID: <1170805430.500420.261850@q2g2000cwa.googlegroups.com>
NNTP-Posting-Host: 75.117.128.183
Mime-Version: 1.0

Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170805451 32419 127.0.0.1 (6 Feb 2007 23:44:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 6 Feb 2007 23:44:11 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q2g2000cwa.googlegroups.com; posting-host=75.117.128.183;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8968

Well, I'm back. Still looking for a one tube regenerative receiver I
can build for myself. I did
manage to find a kit online that looks close to what I want - it's
called the Radio Ace kit.
Made to look like the old Radiomann sets they used to sell back in the
day, it looks nice,
but at $100+ it seems it was made for people with more money than
brains.

Back to the topic. I found the schematics for the Doerle Twinplex
receiver, which should do
the trick, with one exception - the tube it uses isn't one of the
tubes I have. I do have three
different twin triodes that are of more recent vintage, but I don't
know if I can substitute any
or all of them in the circuit. The are a 4BC8, a 6FQ7 and a 6BZ7.
Anybody have any ideas?

Ralph Glatt

From 2408130363401411137
X-Google-Thread: fc2a5,290cf736d2c47f04
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews5.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Doerle Twinplex
References: <1170805430.500420.261850@q2g2000cwa.googlegroups.com>
In-Reply-To: <1170805430.500420.261850@q2g2000cwa.googlegroups.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Lines: 40
Message-ID: <JA8yh.52$m7.2@bignews5.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcboolebjffgcpmfhhdcpogbhjggebmadkfckh
mcmeepdbnjgjmlffncgfnojaonepigikegcedgddebljoefjbiifnabpjicmhakiabheiicclahfcc
NNTP-Posting-Date: Tue, 06 Feb 2007 18:56:25 EST
Organization: BellSouth Internet Group
Date: Tue, 06 Feb 2007 18:56:27 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8969

julian814 wrote:
> Well, I'm back. Still looking for a one tube regenerative receiver I
> can build for myself. I did
> manage to find a kit online that looks close to what I want - it's
> called the Radio Ace kit.
> Made to look like the old Radiomann sets they used to sell back in the
> day, it looks nice,
> but at $100+ it seems it was made for people with more money than
> brains.
>
> Back to the topic. I found the schematics for the Doerle Twinplex
> receiver, which should do
> the trick, with one exception - the tube it uses isn't one of the
> tubes I have. I do have three
> different twin triodes that are of more recent vintage, but I don't
> know if I can substitute any
> or all of them in the circuit. The are a 4BC8, a 6FQ7 and a 6BZ7.
> Anybody have any ideas?
>
>
> Ralph Glatt
>

Well the 4BC8 has a 4.2 600ma heater, it could run on 6v through a voltage dropping resistor. It has a mu of 35 (both triodes).

The 6FQ7 is very similar to the 6CG7 (only difference is that the 6CG7 has an internal shield between the two triode sections). It has a 6.3v 600ma heater and both triodes have a mu of 20.

The 6BZ7 has 6.3v 400ma heater and a mu of 36 (both sections).

The 6BZ7 would probably be the best choice as it is the lowest power version tube and has the most gain.

The parameters of a tube in this circuit are not that important, any tube will work well. Adjustment of the grid leak resistor and capacitor as well as the number of turns in the tickler coil in the detector circuit as well as the cathode bias resistor in the amplifier circuit will be necessary with a tube change, but even here the values won't be critical. Anyway I'd use the 6BZ7.

From 9099261332329931860
X-Google-Thread: fc2a5,7d37a3ab6a052ac1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a34g2000cwb.googlegroups.com!not-for-mail
From: sailtamarack@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted - "Hands-on-radio" articles from 8/06 & 10/06 QST
Date: 6 Feb 2007 19:14:16 -0800
Organization: http://groups.google.com
Lines: 14
Message-ID: <1170818055.938853.140080@a34g2000cwb.googlegroups.com>
References: <12sedjo37tkru32@corp.supernews.com>
NNTP-Posting-Host: 70.66.131.179
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170818063 29811 127.0.0.1 (7 Feb 2007 03:14:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 7 Feb 2007 03:14:23 +0000 (UTC)
In-Reply-To: <12sedjo37tkru32@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a34g2000cwb.googlegroups.com; posting-host=70.66.131.179;
   posting-account=gXcV3gwAAACKhdV_aZ9TbpV32cSAnBGe
Xref: g2news2.google.com rec.radio.amateur.homebrew:8970

On Feb 5, 5:51 am, "Dave" <db5...@hotmail.com> wrote:
> Wanting to build what they describe and outline. Willing to pay a couple
> dollars each via PayPal if desired. Scanned articles would be ideal.
>
> Thanks much.
>
> Dave

Dave,

Check the email account you used to post this message.

Roger

From -2270460464294041482
X-Google-Thread: fc2a5,a8cc406be44a122c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v45g2000cwv.googlegroups.com!not-for-mail
From: "llobdelljr" <llobdelljr@afo.net>

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Low Noise VFO
Date: 6 Feb 2007 21:20:21 -0800
Organization: http://groups.google.com
Lines: 17
Message-ID: <1170825621.545237.57660@v45g2000cwv.googlegroups.com>
References: <1169083418.423858.144080@11g2000cwr.googlegroups.com>
   <1169929394.711680.15850@h3g2000cwc.googlegroups.com>
NNTP-Posting-Host: 68.14.231.68
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170825640 15196 127.0.0.1 (7 Feb 2007 05:20:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 7 Feb 2007 05:20:40 +0000 (UTC)
In-Reply-To: <1169929394.711680.15850@h3g2000cwc.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v45g2000cwv.googlegroups.com; posting-host=68.14.231.68;
   posting-account=pkIXzAwAAABwV__oggyxejeyUJCAJYlb
Xref: g2news2.google.com rec.radio.amateur.homebrew:8971

On Jan 27, 1:23 pm, "LenAnder...@ieee.org" <LenAnder...@ieee.org>
wrote:
> On Jan 17, 5:23?pm, "llobdelljr" <llobdel...@afo.net> wrote:
>
>
>    This may not be what you are looking for but it is a
>    clever way to make a Hartley oscillator using two
>    inductors without any coupling between them:
>
>
>    LenAnder...@ieee.org

Thanks for the replies.  This oscillator is cool, but not what I saw
before.  I tried another Google search and can't find the one I saw.
Maybe disappeared out in cyberspace somewhere.
Larry



From 6114966640765053351
X-Google-Thread: 108122,772910ad849dc3cc,start
X-Google-Thread: fc2a5,772910ad849dc3cc,start
X-Google-Attributes: gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newstrans.cos.agilent.com!not-for-mail
From: "Al Lorona" <al_lorona@agilent.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: 10.9 MHz IF?
Date: Tue, 6 Feb 2007 22:57:25 -0800
```

```
Organization: None
Lines: 16
Message-ID: <1170830367.837071@newsreg.cos.agilent.com>
NNTP-Posting-Host: newsreg.cos.agilent.com
X-Trace: newstrans.cos.agilent.com 1170831445 2757 130.29.134.111 (7 Feb 2007
06:57:25 GMT)
X-Complaints-To: usenet@newstrans.cos.agilent.com
NNTP-Posting-Date: Wed, 7 Feb 2007 06:57:25 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Cache-Post-Path: newsreg.cos.agilent.com!unknown@cos1nai128175.cos.agilent.com
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
Xref: g2news2.google.com rec.radio.amateur.equipment:8023
rec.radio.amateur.homebrew:8972
```

Hi, Everybody,

Would anybody know offhand which rigs from maybe the 1960s through early 1980s era had an IF of 10.9 MHz? I have a number of 10.9 MHz crystal filters built by Network Sciences (C-F Networks) that I bought some time ago that were supposedly taken out of a ham rig and just out of curiosity wanted to know which one.

Thanks very much.

Regards,

Al W6LX

```
From -7477624635095287082
X-Google-Thread: 108122,772910ad849dc3cc
X-Google-Thread: fc2a5,772910ad849dc3cc
X-Google-Attributes: gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.brightview.com!news.brightview.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 07 Feb 2007 05:05:16 -0600
From: rrah@pencoys.org.uk (Mike W)
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: 10.9 MHz IF?
Date: Wed, 07 Feb 2007 11:05:13 GMT
Reply-To: rrah@pencoys.org.uk
Message-ID: <45c9b1f7.864750900@news.madasafish.com>
References: <1170830367.837071@newsreg.cos.agilent.com>
X-Newsreader: Forte Free Agent 1.21/32.243
Lines: 22
```

```
NNTP-Posting-Host: 80.189.232.133
X-Trace: sv3-FYapho5VO5q9f/HHve/
BDoWbLQtV7pONgRTgKJSjqeLjHxlGG5KzuPXaE58wtmlZlobbJ8+wLMm4zkm!
LsvXb0PxeJmycOBedbDMtfGKxrHr3YCYBDRS1Rn6rDpG3/AZpRc/p3YwjUjyp1oTK/n0Mvtuh+VB!
PIag2haFyQXYZjcLA/5HoVXlar/975Elc6g=
X-Complaints-To: abuse@brightview.com
X-DMCA-Complaints-To: abuse@brightview.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.equipment:8024
rec.radio.amateur.homebrew:8973

On Tue, 6 Feb 2007 22:57:25 -0800, "Al Lorona" <al_lorona@agilent.com>
wrote:

>Hi, Everybody,
>
>Would anybody know offhand which rigs from maybe the 1960s through early
>1980s era had an IF of 10.9 MHz? I have a number of 10.9 MHz crystal filters
>built by Network Sciences (C-F Networks) that I bought some time ago that
>were supposedly taken out of a ham rig and just out of curiosity wanted to
>know which one.
>
>Thanks very much.
>
>Regards,
>
>Al  W6LX
>
ISTR that some older Bearcat scanners used 10.9Mhz. I don't know any
other rigs using it though.
>
>




From -6059372787363556937
X-Google-Thread: fc2a5,f38d6d9287e6e350
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j27g2000cwj.googlegroups.com!not-for-
mail
From: "Denny" <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Testing a mixer..
Date: 7 Feb 2007 05:30:04 -0800
Organization: http://groups.google.com
Lines: 41
Message-ID: <1170855004.284218.268870@j27g2000cwj.googlegroups.com>
References: <1170699202.802624.38420@s48g2000cws.googlegroups.com>
   <eq936u$69s$1@theodyn.ncf.ca>
```

```
NNTP-Posting-Host: 71.90.42.60
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170855021 19469 127.0.0.1 (7 Feb 2007 13:30:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 7 Feb 2007 13:30:21 +0000 (UTC)
In-Reply-To: <eq936u$69s$1@theodyn.ncf.ca>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; IEMB3; IEMB3),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j27g2000cwj.googlegroups.com; posting-host=71.90.42.60;
   posting-account=GhrC0g0AAACdrABM-CDx8Fhs5lKJR5q2
Xref: g2news2.google.com rec.radio.amateur.homebrew:8974
```

Michael makes excellent points...

Sunday I was struggling with a simple crystal oscillator I had kludged up on a protoboard for a quick project... I have been building oscillators like this on and off for over 40 years, yet I could not get this one to work... Tried different crystals... Used the LC meter to check the caps and inductor... Used a VOM to trace the circuit and measure the resistors... Had the oscilloscope and a receiver monitoring the circuit for RF... I was just tearing my hair out... My son got involved and he could not find a problem either...

As we sat there staring at the half dozen components on the protoboard I commented that the bias voltages on the FET showed that it was conducting, but not oscillating as if something was sucking the RF to ground... On a whim I said to him, pull the RF bypass cap off the 5 volt DC line... (the LC meter had showed the cap as good and close to the 0.1 mfd it was marked)...

Ahh that won't change anything because the RF choke blocks the rf from getting that far, he said...

Well, just try it..

He reached over and idly plucked the DC bypass cap off the DC input line and WHAMMO, instant loud, whistle in the receiver and the oscilloscope showed a solid sinewave...

He looked at me, I looked at him, we both shrugged and he tossed the cap into the wastebasket...

It's the little things that will drive you to drink...

So, first verify that your oscillator is oscillating - receiver or oscilloscope or RF probe to your VOM... It is not just some white noise in the radio, but a solid whistle that indicates the oscillator is working... As Michael suggested use a second oscillator as a BFO if your receiver doesn't have a SSB or CW mode...

Next, put an audio signal into the audio amp and verify that it blows the headphones off your head... Just suck some audio off a receiver to feed it...

Once you KNOW these items work then try your mixer... Start with the transistor mixer first...

Building or buying an RF probe for your VOM will be the most versatile and cost effective tool you can make/buy for these projects..

GL - denny / k8do

From 2849223517184002780
X-Google-Thread: fc2a5,772910ad849dc3cc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l53g2000cwa.googlegroups.com!not-for-mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 10.9 MHz IF?
Date: 7 Feb 2007 05:59:40 -0800
Organization: http://groups.google.com
Lines: 16
Message-ID: <1170856780.069843.71030@l53g2000cwa.googlegroups.com>
References: <1170830367.837071@newsreg.cos.agilent.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170856792 30289 127.0.0.1 (7 Feb 2007 13:59:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 7 Feb 2007 13:59:52 +0000 (UTC)
In-Reply-To: <1170830367.837071@newsreg.cos.agilent.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l53g2000cwa.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news2.google.com rec.radio.amateur.homebrew:8975

On Feb 7, 1:57 am, "Al Lorona" <al_lor...@agilent.com> wrote:
> Hi, Everybody,
>
> Would anybody know offhand which rigs from maybe the 1960s through early
> 1980s era had an IF of 10.9 MHz? I have a number of 10.9 MHz crystal filters
> built by Network Sciences (C-F Networks) that I bought some time ago that
> were supposedly taken out of a ham rig and just out of curiosity wanted to
> know which one.

I have seen 10.9 MHz crystal filters used in RC receivers from the
60's and 70's. Don't know if it was a technical reason or just "vendor
lock-in" for the channelized crystals (that's what the modelers told
me it was).

Tim.

From 7678791735316764188

```
X-Google-Thread: fc2a5,95e03fc7c8113f35
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Nobody <nobody@frontier.ner>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: do you want to turn 6 dollars into thousand...A MUST SEE
Date: 7 Feb 2007 16:22:04 GMT
Lines: 5
Message-ID: <slrnesjv5c.hsp.bit-bucket@shell.config.com>
References: <1170722263.286340.212920@h3g2000cwc.googlegroups.com>
<ppydnWSqbLzukFXYnZ2dnUVZ_ualnZ2d@adelphia.com>
Reply-To: Reply to the .sig address <NOSPAM_bit-bucket@config.com>
X-Trace: individual.net GrrTvfNscBGAL1m3fw35nAqK0xHzsx1oXtODFyQST4Zivlhwvy
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8976

On Tue, 6 Feb 2007 00:10:12 -0500, John Doe wrote:
> YEAH - AND ALL YOU DO IS FLOOD ALL OF THE NEWSGROUPS WITH SPAM - !!!!

Then, there's jerks like you that feel compelled to re-post the ENTIRE
ORIGINAL piece of sewage slime.


From -3885254237325172988
X-Google-Thread: fc2a5,f38d6d9287e6e350
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!panix!
panix2.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Testing a mixer..
Date: Wed, 7 Feb 2007 15:17:58 -0500
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 59
Message-ID: <Pine.NEB.4.64.0702071513300.11406@panix2.panix.com>
References: <1170699202.802624.38420@s48g2000cws.googlegroups.com>
 <eq936u$69s$1@theodyn.ncf.ca>
<1170855004.284218.268870@j27g2000cwj.googlegroups.com>
NNTP-Posting-Host: panix2.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1170879479 8436 166.84.1.2 (7 Feb 2007 20:17:59 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 7 Feb 2007 20:17:59 +0000 (UTC)
In-Reply-To: <1170855004.284218.268870@j27g2000cwj.googlegroups.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:8978
```

On Wed, 7 Feb 2007, Denny wrote:

> Michael makes excellent points...
>
> Sunday I was struggling with a simple crystal oscillator I had kludged
> up on a protoboard for a quick project... I have been building
> oscillators like this on and off for over 40 years, yet I could not
> get this one to work... Tried different crystals... Used the LC meter
> to check the caps and inductor... Used a VOM to trace the circuit and
> measure the resistors... Had the oscilloscope and a receiver
> monitoring the circuit for RF... I was just tearing my hair out... My
> son got involved and he could not find a problem either...
> As we sat there staring at the half dozen components on the protoboard
> I commented that the bias voltages on the FET showed that it was
> conducting, but not oscillating as if something was sucking the RF to
> ground... On a whim I said to him, pull the RF bypass cap off the 5
> volt DC line... (the LC meter had showed the cap as good and close to
> the 0.1 mfd it was marked)...
> Ahh that won't change anything because the RF choke blocks the rf from
> getting that far, he said...
> Well, just try it..
> He reached over and idly plucked the DC bypass cap off the DC input
> line and WHAMMO, instant loud, whistle in the receiver and the
> oscilloscope showed a solid sinewave...
> He looked at me, I looked at him, we both shrugged and he tossed the
> cap into the wastebasket...
> It's the little things that will drive you to drink...

I had one of these moments decades ago. Short version of a very long story, and beginning doubts about whether reality exists or magic exists: I built a circuit that didn't work but was supposed to work. Spent a LOT of time. Finally, on an intuitive whim I added a component that should not have done anything, but it made the circuit work. I told my boss, we looked at each other, and we decided it was not worth spending more time on and accepted the modification since what mattered was that the damned thing work and we were not going to question black cats crossing our paths. :-\

===== no change to below, included for reference and context =====

> So, first verify that your oscillator is oscillating - receiver or
> oscilloscope or RF probe to your VOM... It is not just some white
> noise in the radio, but a solid whistle that indicates the oscillator
> is working... As Michael suggested use a second oscillator as a BFO
> if your receiver doesn't have a SSB or CW mode...
> Next, put an audio signal into the audio amp and verify that it blows
> the headphones off your head... Just suck some audio off a receiver
> to feed it...
> Once you KNOW these items work then try your mixer... Start with the
> transistor mixer first...
> Building or buying an RF probe for your VOM will be the most versatile

> and cost effective tool you can make/buy for these projects..
>
> GL - denny / k8do
>
>

From -9223354010986458093
X-Google-Thread: fc2a5,95e03fc7c8113f35
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 07 Feb 2007 15:05:36 -0600
From: "John Doe" <hgorden@adelphia.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1170722263.286340.212920@h3g2000cwc.googlegroups.com>
<ppydnWSqbLzukFXYnZ2dnUVZ_ualnZ2d@adelphia.com> <slrnesjv5c.hsp.bit-
bucket@shell.config.com>
Subject: Re: do you want to turn 6 dollars into thousand...A MUST SEE
Date: Wed, 7 Feb 2007 16:06:47 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <LIadnVoxdMy9olfYnZ2dnUVZ_oqmnZ2d@adelphia.com>
Lines: 5
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X-Trace: sv3-qWCvW9vzEk7dy+7gwEZAtW8D4R9qQiyek3huL2MATEq2K0Z1dkCZXyTCq+Ea6/
FFoPfYZNo3hkOewKn!FHx5kf/eQ8jj+/ZPOO11QSKiWSz/
xaSsB5VDosyoxJKj3OuYZaoJDRsVFr19Hkx4xHKnSS1L9jjO!av61A0JNsvMoyoTIeQ4ZRq29uQMn
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8979

Yup and then there are the jerk's that are compelled to tell someone that
they are a jerk for reposting the original!
<snip>

From -3477363081680434700
X-Google-Thread: fc2a5,f38d6d9287e6e350
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p10g2000cwp.googlegroups.com!not-for-

mail
From: phlnxsc@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Testing a mixer..
Date: 8 Feb 2007 04:00:41 -0800
Organization: http://groups.google.com
Lines: 37
Message-ID: <1170936041.851202.212620@p10g2000cwp.googlegroups.com>
References: <1170699202.802624.38420@s48g2000cws.googlegroups.com>
   <eq936u$69s$1@theodyn.ncf.ca>
   <1170855004.284218.268870@j27g2000cwj.googlegroups.com>
   <Pine.NEB.4.64.0702071513300.11406@panix2.panix.com>
NNTP-Posting-Host: 85.108.78.240
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Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170936076 1259 127.0.0.1 (8 Feb 2007 12:01:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Feb 2007 12:01:16 +0000 (UTC)
In-Reply-To: <Pine.NEB.4.64.0702071513300.11406@panix2.panix.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; tr; rv:1.8.1.1) Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p10g2000cwp.googlegroups.com; posting-host=85.108.78.240;
   posting-account=NpE-yA0AAAAh2Gb39c5TBmFfsHehXa77
Xref: g2news2.google.com rec.radio.amateur.homebrew:8980

I finally tested the circuit. I started with the transistor mixer as you said. After being sure that the oscillators was working, i connected them to the mixer and turned both of them on. When i turned on the second one, i started to hear some strong low frequency cycling, as you said before. When i turned off one of the oscillators, the sound was gone. So that shows the mixer is working, i guess.

I have seen some crystal oscillator circuits with a trimmer connected in series with the crystal. I thougt, that way i could generate some higher frequency sound. I connected a trimmer to one of the oscillators and it made the circuit output a real 'beat note'. I could change the tone frequency with adjusting the trimmer. It could even generate frequencies as high as 2 KHz. I didn't think that this small trimmer could change the oscillation frequency that much.

I also experienced some strange things. While playing with that trimmer, i found out that the mixer's power connection was lying on the table. I connected it again, but it didn't change anything. Circuit went on working as before. Is this BJT mixer capable of mixing without power applied? And even the two oscillators were exactly same, i found that one of them were more sensitive than the other one. Touching the trimmer with a screwdriver changed the frequency like 400-500 Hz, while with the other one, it had no effect.

After then, as you suggested, i disconnected one of the oscillators and moved it a bit far away from the mixer. I could still hear it from

1-2 meters away. I turned off the mixer to see if it works with this situation too, but when i turned it off, i couldn't hear the other oscillator even from 10 cm's. What about this?

I will test the diode mixer, too, but i have some problems with the transformer right now. Until then, i will play with this one and see if i can hear some real stuff with this. Do you think it is possible with this simple setup, and with a long wire?

Thanks....

From -5886999305993050608
X-Google-Thread: fc2a5,f38d6d9287e6e350
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s48g2000cws.googlegroups.com!not-for-mail
From: "Denny" <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Testing a mixer..
Date: 8 Feb 2007 04:32:43 -0800
Organization: http://groups.google.com
Lines: 50
Message-ID: <1170937963.530724.82230@s48g2000cws.googlegroups.com>
References: <1170699202.802624.38420@s48g2000cws.googlegroups.com>
   <eq936u$69s$1@theodyn.ncf.ca>
   <1170855004.284218.268870@j27g2000cwj.googlegroups.com>
   <Pine.NEB.4.64.0702071513300.11406@panix2.panix.com>
   <1170936041.851202.212620@p10g2000cwp.googlegroups.com>
NNTP-Posting-Host: 71.90.42.60
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170937972 22538 127.0.0.1 (8 Feb 2007 12:32:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 8 Feb 2007 12:32:52 +0000 (UTC)
In-Reply-To: <1170936041.851202.212620@p10g2000cwp.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; IEMB3; IEMB3),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s48g2000cws.googlegroups.com; posting-host=71.90.42.60;
   posting-account=GhrC0g0AAACdrABM-CDx8Fhs5lKJR5q2
Xref: g2news2.google.com rec.radio.amateur.homebrew:8981

On Feb 8, 7:00 am, phln...@gmail.com wrote:
> I finally tested the circuit. I started with the transistor mixer as
> you said. After being sure that the oscillators was working, i
> connected them to the mixer and turned both of them on. When i turned
> on the second one, i started to hear some strong low frequency
> cycling, as you said before. When i turned off one of the oscillators,
> the sound was gone. So that shows the mixer is working, i guess.

>
> I have seen some crystal oscillator circuits with a trimmer connected
> in series with the crystal. I thougt, that way i could generate some
> higher frequency sound. I connected a trimmer to one of the
> oscillators and it made the circuit output a real 'beat note'. I could
> change the tone frequency with adjusting the trimmer. It could even
> generate frequencies as high as 2 KHz. I didn't think that this small
> trimmer could change the oscillation frequency that much.
>
> I also experienced some strange things. While playing with that
> trimmer, i found out that the mixer's power connection was lying on
> the table. I connected it again, but it didn't change anything.
> Circuit went on working as before. Is this BJT mixer capable of mixing
> without power applied? And even the two oscillators were exactly same,
> i found that one of them were more sensitive than the other one.
> Touching the trimmer with a screwdriver changed the frequency like
> 400-500 Hz, while with the other one, it had no effect.
>
> After then, as you suggested, i disconnected one of the oscillators
> and moved it a bit far away from the mixer. I could still hear it from
> 1-2 meters away. I turned off the mixer to see if it works with this
> situation too, but when i turned it off, i couldn't hear the other
> oscillator even from 10 cm's. What about this?
>
> I will test the diode mixer, too, but i have some problems with the
> transformer right now. Until then, i will play with this one and see
> if i can hear some real stuff with this. Do you think it is possible
> with this simple setup, and with a long wire?
>
> Thanks....

Sounds like the one oscillator is not working the way you think...

Yes, a transistor is a pair of diodes nose to nose, and can mix/
rectify without being powered.. But will need power to work as
intended...

Look, take a diode and a cap and a resistor and make an RF probe for
your VOM... Look in the ARRL handbook, or the RSGB, or just about any
handbook for this RF probe circuit..

Cheers ... denny

From 9216885182291226305
X-Google-Thread: fc2a5,7d37a3ab6a052ac1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-02!sn-xt-sjc-09!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted - "Hands-on-radio" articles from 8/06 & 10/06 QST
Date: Thu, 8 Feb 2007 06:37:21 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12sm6c87e5ofu07@corp.supernews.com>
References: <12sedjo37tkru32@corp.supernews.com>
<1170818055.938853.140080@a34g2000cwb.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 26
Xref: g2news2.google.com rec.radio.amateur.homebrew:8982


<sailtamarack@yahoo.ca> wrote in message
news:1170818055.938853.140080@a34g2000cwb.googlegroups.com...
> On Feb 5, 5:51 am, "Dave" <db5...@hotmail.com> wrote:
>> Wanting to build what they describe and outline.  Willing to pay a couple
>> dollars each via PayPal if desired.  Scanned articles would be ideal.
>>
>> Thanks much.
>>
>> Dave
>
> Dave,
>
> Check the email account you used to post this message.
>
> Roger
>

Did that, just before coming here.  Thank you, very much.  Like I said, you
made my day.  My weekend, even.  :)

Take it easy...

Dave




From -6172334940673862046
X-Google-Thread: fc2a5,7d37a3ab6a052ac1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!
138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-04!sn-ams!sn-feed-ams-01!sn-post-
ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Dave" <db5151@hotmail.com>
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wanted - "Hands-on-radio" articles from 8/06 & 10/06 QST
Date: Thu, 8 Feb 2007 06:38:58 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12sm6fafg7elb51@corp.supernews.com>
References: <12sedjo37tkru32@corp.supernews.com> <eq7kr9$btn$1@theodyn.ncf.ca>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 30
Xref: g2news2.google.com rec.radio.amateur.homebrew:8983


"Michael Black" <et472@FreeNet.Carleton.CA> wrote in message
news:eq7kr9$btn$1@theodyn.ncf.ca...
> "Dave" (db5151@hotmail.com) writes:
>> Wanting to build what they describe and outline.  Willing to pay a couple
>> dollars each via PayPal if desired.  Scanned articles would be ideal.
>>
>> Thanks much.
>>
>>
> Go to the ARRL.
>
> Unless something has changed in recent years, they'd sell you the back
> issue you want, and if they don't have copies, sell you a photocopy of
> the specific article.
>
>  Michael  VE2BVW
>

Hey Michael,

Yes, I am about ready to join the ARRL just to have access to their
"Hands-On-Radio" articles from the past couple years.  These things are
exactly what I have been looking for...

Thanks,

Dave





From 1301841638189637931
X-Google-Thread: fc2a5,a8cc406be44a122c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
```

```
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 20 Jan 2007 14:06:05 -0600
Date: Sat, 20 Jan 2007 20:06:01 +0000
From: charlie <wehatespam@wymsey.co.uk>
User-Agent: Thunderbird 1.5.0.9 (X11/20060911)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Low Noise VFO
References: <1169083418.423858.144080@11g2000cwr.googlegroups.com>
<45af8a1e.9724828@news.optonline.net> <5nssh.250$jA.135@bignews1.bellsouth.net>
In-Reply-To: <5nssh.250$jA.135@bignews1.bellsouth.net>
X-Enigmail-Version: 0.94.1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-ID: <RMednT8VHdaw6y_YnZ2dnUVZ8tzinZ2d@pipex.net>
Lines: 14
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5EfvvYvO4EJUfSkfF8meRWTotOl8KqLkt4L9ueUooCHflm5EnO8DSpSaMZsfkXxuvPFmLlqQn6VP!
2h+7iF6ka4UYOeHtHDCBO7xz
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8718

ken scharf wrote:
<SNIP>
> Browsers usually only remember history of URL's directly typed in.  If a
> site is reached via a link the browser won't save the history of it.

What browser planet did you get that nugget from? Most browsers
(ever Exploder) remember every site you visit for as many days as
you set.


Charlie.

--
www.wymsey.co.uk


From 5211396953499857746
X-Google-Thread: fc2a5,f1f50a7d8c22e170
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 20 Jan 2007 14:21:06 -0600
```

From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <ZQrsh.21570$yC5.9367@newssvr27.news.prodigy.net>
<1169315291.826554.250810@38g2000cwa.googlegroups.com>
Subject: Re: double balanced mixer ?
Date: Sat, 20 Jan 2007 14:21:12 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <X_2dnYmvGP8v5C_YnZ2dnUVZ_sCinZ2d@comcast.com>
Lines: 37
NNTP-Posting-Host: 71.228.3.96
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e!0IbxrPxsNrsa213eybyyv38bq7E0GVHDpy31wcjPRx8cs4VKAFXmyC1lTiEuXQuk4bLXOPoC9Iju!
Foxszh5zZvmk
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8719

The '3 series of mixer from MCL are good down to about 25kHz. Good performance can be expected another octave down from there. Does the synthesizer in your WJ receiver provide +17dBm of LO injection? The mixer you ordered is a Level 17 mixer. The MCL website does have the pinout for this device. I like the '3 series, since the SSB conversion loss is in the 4.75dB range vs other series, which have conversion loss in the 6.5dB range. This is a very good mixer. Now, which mixer is your WJ receiver using? Some of the WJ units used a mixer that had a pinout similar to MCL's GRA-3.

Pete

"AndyS" <andysharpe@juno.com> wrote in message
news:1169315291.826554.250810@38g2000cwa.googlegroups.com...
>
> Henry Kolesnik wrote:.. Any tips on how to
>> determine the leads and test for performance appreciated.
>> tnx
>
>> Hank WD5JFR
>
> Andy writes:
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> the connectors, frequency range, and performance of their mixers.
> If you don't have their catalogs lying around, there are two more
> possibilities... Do a google to find their website and they may have
> everything on online.   Otherwise, call their customer service line and
>

> tell them the info you need.... In my previous life, they gave
> excellent
> support...
>
>   Good luck,
>
>   Andy W4OAH, in Eureka, Texas
>

```
From 2863825900761439991
X-Google-Thread: fc2a5,f1f50a7d8c22e170
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr27.news.prodigy.net.POSTED!c4667c2f!not-for-
mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <ZQrsh.21570$yC5.9367@newssvr27.news.prodigy.net>
<1169315291.826554.250810@38g2000cwa.googlegroups.com>
<X_2dnYmvGP8v5C_YnZ2dnUVZ_sCinZ2d@comcast.com>
Subject: Re: double balanced mixer ?
Lines: 58
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <kvvsh.21613$yC5.5330@newssvr27.news.prodigy.net>
NNTP-Posting-Host: 70.142.62.252
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr27.news.prodigy.net 1169327184 ST000 70.142.62.252 (Sat, 20 Jan
2007 16:06:24 EST)
NNTP-Posting-Date: Sat, 20 Jan 2007 16:06:24 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
[[PAPDON^ZUKRTD[@JIROFXBWR\HPCTL@XT^OBPLAH[\RYIBK^RAQFW[ML\THRCKV^GGZKJMGV^^_JSCFF
UA_QXFGVSCYRPILH]TRVKC^LSN@DX_HCAFX__@J\DAJBVMY\ZWZCZLPA^MVH_P@\
\EOMW\YSXHG__IJQY_@M[A[[AXQ_XDSTAR]\PG]NVAQUVM
Date: Sat, 20 Jan 2007 21:06:24 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8720
```

Pete

I bought this 8718 as a parts unit and now have it working, somewhat. The can that covers the mixer is gone, someone was messing inside but the manual has it as M9D made by WJ I think. I wish I could find a schematic on it becasue it might be repairable, kind of small but I've looked at it with my 6-50 stereo zoom microscope and might be able to fix it if I knew what diodes it used. Without a diagram I'm afraid that I might bugger something.

When I attach a 5 foot piece of wire to one the diodes the radio picks up
all the AM stations and no problem with WWV or 20 meters..Haven't done any
other testing. I was told that the SRA-3H was a good sub and took their
word for it. If something else is closer or better I'd sure like to know. I
can't find any reference in the manual to the output level of the first LO
but it covers ~ 43 to 73 MHz.

73
Hank WD5JFR
"Pete KE9OA" <p.gianako@comcast.net> wrote in message
news:X_2dnYmvGP8v5C_YnZ2dnUVZ_sCinZ2d@comcast.com...
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>
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>>
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>>> determine the leads and test for performance appreciated.
>>> tnx
>>
>>> Hank WD5JFR
>>
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>> If you don't have their catalogs lying around, there are two more
>> possibilities... Do a google to find their website and they may have
>> everything on online.   Otherwise, call their customer service line and
>>
>> tell them the info you need.... In my previous life, they gave
>> excellent
>> support...
>>
>>   Good luck,
>>
>>   Andy W4OAH, in Eureka, Texas
>>
>
>

From 4920144164575682436
X-Google-Thread: fc2a5,878928413fc23737,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!uns-out.usenetserver.com!
news.usenetserver.com!pc02.usenetserver.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Bad Colpitts osc Waveform
Date: Sat, 20 Jan 2007 18:40:30 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <43f29$45b2b6a1$45011502$12674@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 36
X-Trace: 43f2945b2b6a1e0a4b0a712674
Xref: g2news2.google.com rec.radio.amateur.homebrew:8721

Hi All,
Please see pictures and diagram at ABSE.

I duplicated a circuit for someone because they got a bad output waveform.
Well I did too.
Capacitor = air variable set at 365pf
inductor = 41uh aircore
With freq set at 1.3Mhz I have the voltages as follows;
Collector - 11.8vdc
Base - 3.1vac riding on top of 3.2vdc
Emitter - 2.5vac riding on top of 3.9vdc   (Don't be critical, it's not ac if it sets on dc)

As I shift up in freq at about 2.7Mhz the voltages jump.

Capacitor = air variable set at 40pf
inductor = 41uh aircore
Freq = 3.7Mhz
Collector - 11.8vdc
Base - 10vac riding on top of 1.8vdc
emitter - 1.1vac riding on top of 9vdc

The base waveform in both senerios is much more sinewave (ish) than the output.

Any ideas how to get a decent waveform? The next step will be a buffer, but...

Note; original schematic used a crystal, I substituted the LC. Could this

be the
cause of the distortion?

Thanks,   Mike

```
From -792525240722245403
X-Google-Thread: fc2a5,878928413fc23737
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q2g2000cwa.googlegroups.com!not-for-
mail
From: sailtamarack@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Bad Colpitts osc Waveform
Date: 20 Jan 2007 18:43:54 -0800
Organization: http://groups.google.com
Lines: 43
Message-ID: <1169347434.305831.276560@q2g2000cwa.googlegroups.com>
References: <43f29$45b2b6a1$45011502$12674@KNOLOGY.NET>
NNTP-Posting-Host: 70.66.131.179
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1169347440 7876 127.0.0.1 (21 Jan 2007 02:44:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 21 Jan 2007 02:44:00 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q2g2000cwa.googlegroups.com; posting-host=70.66.131.179;
   posting-account=gXcV3gwAAACKhdV_aZ9TbpV32cSAnBGe
Xref: g2news2.google.com rec.radio.amateur.homebrew:8722
```

amdx wrote:
> Hi All,
> Please see pictures and diagram at ABSE.
>
> I duplicated a circuit for someone because they got a bad
> output waveform.
> Well I did too.
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> inductor = 41uh aircore
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> Emitter - 2.5vac riding on top of 3.9vdc   (Don't be critical, it's not ac
> if it sets on dc)
>
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>
> Capacitor = air variable set at 40pf
> inductor = 41uh aircore
> Freq = 3.7Mhz
> Collector - 11.8vdc
> Base - 10vac riding on top of 1.8vdc
> emitter - 1.1vac riding on top of 9vdc
>
> The base waveform in both senerios is much more sinewave (ish) than the
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>
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> but...
>
> Note; original schematic used a crystal, I substituted the LC. Could this
> be the
> cause of the distortion?
>
> Thanks, Mike

Mike ,

What is ABSE? Need a circuit before comments can be made.

Roger

From -5635015207522252361
X-Google-Thread: fc2a5,878928413fc23737
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!uns-out.usenetserver.com!
news.usenetserver.com!pc02.usenetserver.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew
References: <43f29$45b2b6a1$45011502$12674@KNOLOGY.NET>
<1169347434.305831.276560@q2g2000cwa.googlegroups.com>
Subject: Re: Bad Colpitts osc Waveform
Date: Sat, 20 Jan 2007 22:30:09 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <6916f$45b2ec74$45011502$3459@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 49
X-Trace: 6916f45b2ec74e0a4b0a703459
Xref: g2news2.google.com rec.radio.amateur.homebrew:8723

```
<sailtamarack@yahoo.ca> wrote in message
news:1169347434.305831.276560@q2g2000cwa.googlegroups.com...
>
> amdx wrote:
>> Hi All,
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>> Freq = 3.7Mhz
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>>
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>>
>>  Note; original schematic used a crystal, I substituted the LC. Could
>> this
>> be the
>> cause of the distortion?
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>>                                       Thanks,    Mike
>
> Mike ,
>
> What is ABSE? Need a circuit before comments can be made.

  alt.binaries.schematics.electronic




From -8857505744964382\49
X-Google-Thread: fc2a5,f1f50a7d8c22e170
```

X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 21 Jan 2007 01:19:59 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <ZQrsh.21570$yC5.9367@newssvr27.news.prodigy.net>
<1169315291.826554.250810@38g2000cwa.googlegroups.com>
<X_2dnYmvGP8v5C_YnZ2dnUVZ_sCinZ2d@comcast.com>
<kvvsh.21613$yC5.5330@newssvr27.news.prodigy.net>
Subject: Re: double balanced mixer ?
Date: Sun, 21 Jan 2007 01:20:06 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <i8-dnXCZ_smCiS7YnZ2dnUVZ_q-vnZ2d@comcast.com>
Lines: 82
NNTP-Posting-Host: 71.228.3.96
X-Trace: sv3-fZ815OcrUNzCN8A66QHEZkueJqd7m+72eoR4res9KlDXzm/
MtUpUQV8qw0uctw0gnrX05ODUDBwxaN/!
Qie5dqVbuZMAwEHiHnopHlsOit7wgq+3A4df1dMUV5Pkenv3dRZ0dLaa8387kzza3JAv7vAc5qmd!
1QU8vaIIhgMQ
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8724

I checked my WJ databook, and I was wrong about that GRA-3 pinout. The SRA-3H does have the same pinout as the M9D, so it is a drop-in replacement.
The original mixer is indeed a Level 20 mixer, which means that you LO injection level is +20dBm. It is rated at 6.5dB conversion loss over the 2 to 400MHz range. This means that it won't have the greatest performance in the LW/MW range.
The IP3 is +30dBm, which is a bit better than the SRA-3H.
A better mixer to use would be the MCL TAK-3H. This mixer has an IP3 of +29dBm and a conversion loss in the 4.77dB range. The TAK-3H is rated down to 40kHz. I used to use the TAK-3H as a drop-in replacement for the 1st mixer when I upgraded KWM-380s.
You can't go wrong with this mixer. The original diodes are probably HP1N5711 hot-carrier diodes. I would throw in the TAK-3H..........performance will be enhanced over the original design. You will have a 1.7dB improvement in the noise figure, and to do that without the need for RF amplification ahead of this stage is a bonus.

Pete

"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in message
news:kvvsh.21613$yC5.5330@newssvr27.news.prodigy.net...
> Pete
> I bought this 8718 as a parts unit and now have it working, somewhat.
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> 73
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>>>
>>> tell them the info you need.... In my previous life, they gave
>>> excellent
>>> support...
>>>

```
>>>    Good luck,
>>>
>>>              Andy W4OAH, in Eureka, Texas
>>>
>>
>>
>
>




From -5669112871863958942
X-Google-Thread: fc2a5,878928413fc23737
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: "RST Engineering" <jim@rstengineering.com>
Newsgroups: rec.radio.amateur.homebrew
References: <43f29$45b2b6a1$45011502$12674@KNOLOGY.NET>
<1169347434.305831.276560@q2g2000cwa.googlegroups.com>
<6916f$45b2ec74$45011502$3459@KNOLOGY.NET>
Subject: Re: Bad Colpitts osc Waveform
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <ioNsh.6$Zi3.131201@news.sisna.com>
Date: Sun, 21 Jan 2007 09:27:36 -0800
NNTP-Posting-Host: 70.41.242.222
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169400462 70.41.242.222 (Sun, 21 Jan 2007 10:27:42 MST)
NNTP-Posting-Date: Sun, 21 Jan 2007 10:27:42 MST
Organization: Internet News Service
X-Received-Date: Sun, 21 Jan 2007 10:27:42 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8725

Most of the current newsgroup servers have blocked the binaries groups.  A
lot of us can't get them.

Jim


"amdx" <amdx@knology.net> wrote in message
news:6916f$45b2ec74$45011502$3459@KNOLOGY.NET...


>>
>> Mike ,
>>
```

>> What is ABSE? Need a circuit before comments can be made.
>
> alt.binaries.schematics.electronic
>

From 2301925355829039460
X-Google-Thread: fc2a5,628c1c6a03500c29
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews6.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 8877's from storage - "cooking" time?
References: <R4mdnUHR8ZptzTTYnZ2dnUVZ_umlnZ2d@neonova.net>
<1168866735.017633.119410@s34g2000cwa.googlegroups.com>
<averh.3094$bp4.1109@bignews4.bellsouth.net> <dxAvGPKo0drFFAWY@ifwtech.co.uk>
<sLOdnXZLj5gMjS3YnZ2dnUVZ_qemnZ2d@neonova.net> <NjZ8$LI7FIsFFAda@ifwtech.co.uk>
In-Reply-To: <NjZ8$LI7FIsFFAda@ifwtech.co.uk>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 12
Message-ID: <%POsh.2644$Ts.1126@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcbobmnebmlohlbjoipgakdppnhpkmiolhflkb
mlgenmfgdogjdnpbnbhdammedbkckiakngmmneimggmmdkeaimgncegobbnmlhabfcddocofaaiphb
NNTP-Posting-Date: Sun, 21 Jan 2007 14:05:31 EST
Organization: BellSouth Internet Group
Date: Sun, 21 Jan 2007 14:05:41 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8726

>But this raises an issue related to your second question. It is not
>normally necessary to avoid prevent inrush current surges with
>*indirectly* heated tubes such as the 8877...

I don't know if I would agree with that. The 8877 has a 5v 10A heater. While that is 'only' 50 watts of power, it is a resistance of only 1/2 ohm WHEN HOT. When cold, the heater might have a resistance of only .05 ohms, and represent an inrush of almost 100 AMPS. While an indirectly heated cathode's heater element is somewhat protected against thermal shock by the surrounding cathode, at this current level some inrush delay might still be a good idea with such an expensive tube. It also might prevent premature burnout of the filament transformer!

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From -7025843495271178743
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news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 21 Jan 2007 13:40:40 -0600
From: "Jim" <kill-spam@no-spam.org>
Newsgroups: rec.radio.amateur.homebrew
References: <43f29$45b2b6a1$45011502$12674@KNOLOGY.NET>
Subject: Re: Bad Colpitts osc Waveform
Date: Sun, 21 Jan 2007 11:40:40 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 0704-0, 01/18/2007), Outbound message
X-Antivirus-Status: Clean
Message-ID: <f-WdnS-JCJokXC7YnZ2dnUVZ_rylnZ2d@comcast.com>
Lines: 29
NNTP-Posting-Host: 71.198.121.37
X-Trace:
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V!pcj/Yabfa/5cBc1kDtCLf3g9e7MFdOu6tmNBMMEkZX5oAf+GSfxNQ0b9SeyuC4x/nCEq3AhySaDf!
OZA51W7hNZWJIEo7YuFjZTMh7w==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8727
```

Well, offhand, I don't like the way the base is biased... That transistor will be clamping on the negative voltage swing which probably answers why the waveform is so poor.

If you make a voltage divider for the base voltage, the transistor oscillato ought to give a better waveform.

Perhaps something like 27K from +12 VDC to the basen, and 9.1 K from base to ground.

This should improve the waveform shape....

Jim Pennell

N6BIU

--

11:40 Pacific Time Zone
Jan 21 2007

International Time
19:40 UTC
21.01.2007

```
From 4706798844865936274
X-Google-Thread: fc2a5,628c1c6a03500c29
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nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.neonova.net!
news.neonova.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 21 Jan 2007 14:26:14 -0600
Date: Sun, 21 Jan 2007 12:26:00 -0800
From: Jim Barber <jim@sonicfocus.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 8877's from storage - "cooking" time?
References: <R4mdnUHR8ZptzTTYnZ2dnUVZ_umlnZ2d@neonova.net>
<1168866735.017633.119410@s34g2000cwa.googlegroups.com>
<averh.3094$bp4.1109@bignews4.bellsouth.net> <dxAvGPKo0drFFAWY@ifwtech.co.uk>
<sLOdnXZLj5gMjS3YnZ2dnUVZ_qemnZ2d@neonova.net> <NjZ8$LI7FIsFFAda@ifwtech.co.uk>
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VtY2xwwWgzPMgKowmJzW4+LtTIjdjSpQpWMoahC9MU3ukg4G6EV1qMxhx/+36+rQIhRMeGd9Iaqv!
ppjbIwEuf3H6Iw==
X-Complaints-To: abuse@neonova.net
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X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8728
```

The only reason for splitting up the 24 hours into cycles was to thermal-cycle the relevant tube components. It may be mythology, but

I've heard that the hot/cold cycle "shock" will help release any gas molecules that may be right at the surface. Even if it is mythology, it seemed the kind that's relatively harmless when translated to superstitious action. ;-)

Thanks for your comments on the heater supply. I'll chew on that a while and see if any implementation ideas come up.

73,
Jim Barber, N7CXI

Ian White GM3SEK wrote:
> Jim Barber wrote:
>> Thanks, Ian. That's a very clear and concise description of the issue.
>>
>> This may be overkill, but since it costs nothing I'm thinking of four
>> six-hour cycles, allowing the tube to cool to room temp or so between
>> cycles.
>>
> What would be the reason for dividing the 24 hours into four parts
> (bearing in mind that the 24h is already little more than a guess)? Also
> note that the tube must be cooled anyway, to avoid overheating of the
> base seal. 5V at 10.5A is a lot of heat input, and all of it must be
> removed somehow.
>
>
>> Since you're here, Ian, I'll slip in an unrelated question. What do
>> you think about using regulated DC for the heater on an 8877 ? I ask
>> because I'm thinking of using a couple of spare controller I/O pins
>> and a home-made R2R network to ramp up a series-pass regulator as part
>> of the overall controller startup.
>>
>> On the other hand, I suppose a relay and appropriate power resistors
>> would be simpler... ;-)
>>
> There are two separate issues there: the need for a regulated heater
> supply; and the need for a slow ramped startup.
>
> The need for a regulated heater supply depends on the regulation of your
> mains voltage. Eimac specify +/- 5%, so if your mains regulation is
> worse than that, a separately regulated supply could be worthwhile.
> Mostly you need to prevent the heater voltage dropping too low, because
> electron emission from a chilled cathode may not be able to deal with
> the peak anode current.
>
> If you ever plan to use the amplifier from a Field Day generator, then
> the answer changes to a definite "yes". Otherwise you can get a nasty
> scenario where you switch to TX, the increased demand pulls the
> generator voltage down, and the heater voltage along with it... and then
> you're trying to pull peak anode current from a chilled cathode. With
> two or three stations sharing the same generator, there will frequently
> be a "double low" or "triple low" when stations are transmitting at the
> same time. You can't do much about the effects on anode voltages in this

```
> FD situation, but you can prevent unnecessary stress on the cathodes by
> regulating the heater voltages.
>
> As it happens, the 8877 has a 5.0V heater, and low-cost 5V switch-mode
> supplies are very readily available. A PC power supply would do, but is
> much larger than needed for an 8877 (10.5A). Nominal 5V power supplies
> can generally be modified for other voltages in the 5-6V region by
> jimmying the master voltage divider.  Switching noise should not be an
> issue if you choose a supply that is shielded, and filtered at both
> input and output.
>
> But this raises an issue related to your second question. It is not
> normally necessary to avoid prevent inrush current surges with
> *indirectly* heated tubes such as the 8877... BUT... a voltage-regulated
> heater supply MUST be modified to prevent it from driving a very large
> current into the low resistance of a cold heater at startup. I haven't
> tried this personally, but some people have created a ramped startup by
> simply adding a large electrolytic capacitor across the right half of
> the master voltage divider (you can check this using a 6V light bulb).
>
>
> By the way, I learned a lot of this stuff by reading the mail on the
> AMPS list over the years
> (http://lists.contesting.com/mailman/listinfo/Amps). There are also
> searchable archives.
>
>


From 1208641730192464489
X-Google-Thread: fc2a5,f1f50a7d8c22e170
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v45g2000cwv.googlegroups.com!not-for-
mail
From: "Leon" <leon355@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: double balanced mixer ?
Date: 21 Jan 2007 13:03:08 -0800
Organization: http://groups.google.com
Lines: 19
Message-ID: <1169413388.717450.77880@v45g2000cwv.googlegroups.com>
References: <ZQrsh.21570$yC5.9367@newssvr27.news.prodigy.net>
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NNTP-Posting-Date: Sun, 21 Jan 2007 21:03:14 +0000 (UTC)
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Xref: g2news2.google.com rec.radio.amateur.homebrew:8729
```

Henry Kolesnik wrote:

> I have several dbm modules, most with sma but some with bnc and most have
> the labels worn off. I suspect one might be HF and the rest microwave. I
> have a Watkins Johnson with a blown mixer and need to replace it. I've
> ordered a Minicircuits SRA-3H but no word as yet. How would I go about
> testing these to find out if they're any good and good for VLF to 30 MHz?
> It would be too hard to substitute them as the space is limited and I don't
> want to risk buggering something else up. On some I'll have to determine,
> in, out, osc and that mya be a chore if the unit bad.. Any tips on how to
> determine the leads and test for performance appreciated.
> tnx

I'd test them with a couple of suitable signal generators, and a simple
filter on the mixer output. You should see if they are are still
working and get a feel for their performance.

Leon

```
From -6087682555694791143
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nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 21 Jan 2007 16:03:46 -0600
Date: Sun, 21 Jan 2007 14:03:58 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Bad Colpitts osc Waveform
References: <43f29$45b2b6a1$45011502$12674@KNOLOGY.NET>
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6nvyyc94eP5UNia+
X-Complaints-To: abuse@web-ster.com
```

X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8730

amdx wrote:

> Hi All,
> Please see pictures and diagram at ABSE.
>
> I duplicated a circuit for someone because they got a bad
> output waveform.
> Well I did too.
> Capacitor = air variable set at 365pf
> inductor = 41uh aircore
> With freq set at 1.3Mhz I have the voltages as follows;
> Collector - 11.8vdc
> Base - 3.1vac riding on top of 3.2vdc
> Emitter - 2.5vac riding on top of 3.9vdc   (Don't be critical, it's not ac
> if it sets on dc)
>
> As I shift up in freq at about 2.7Mhz the voltages jump.
>
> Capacitor = air variable set at 40pf
> inductor = 41uh aircore
> Freq = 3.7Mhz
> Collector - 11.8vdc
> Base - 10vac riding on top of 1.8vdc
> emitter - 1.1vac riding on top of 9vdc
>
> The base waveform in both senerios is much more sinewave (ish) than the
> output.
>
> Any ideas how to get a decent waveform? The next step will be a buffer,
> but...
>
> Note; original schematic used a crystal, I substituted the LC. Could this
> be the
> cause of the distortion?
>
>   Thanks,   Mike
>
>

This circuit doesn't look very good from any standpoint other than (possibly) being cheap. It's questionable for a crystal oscillator in anything but el-cheapo consumer electronics, and just bad for a coil & cap oscillator. Most of the points have been mentioned already; I'll just reiterate them with my own spin:

The base biasing is _wrong_. Biasing a bipolar transistor that way will make it extremely sensitive to device and temperature variations. You can somewhat get away with it in an oscillator because you're working with a class C device, so the emitter voltage will rise with rising oscillation strength, making sort of a poor-man's AGC (with emphasis on the 'poor').

Bias should be with a resistive divider on the base, adjusted so that the oscillator starts up nicely yet keeps the emitter voltage from rising to within 1 volt or so of the collector voltage.

The ratio of C1 and C2 is also extreme. I'm surprised that you get oscillation at all. The rule of thumb for a Colpitts is to choose feedback caps with reactances at frequency of around 150 ohms. You can improve the waveform (and load the circuit less) by retaining the 1nF "C2", increasing the capacitive reactance to the emitter with a smaller cap in series to the transistor emitter, and retaining the take-off point at the hot end of C2.

I wouldn't build an oscillator like this without following it with at least one buffer stage designed to minimize the effect of following circuits on the oscillator, and following _that_ with an amplifier stage. You're not building tube equipment, transistors don't cost that much -- go ahead and use a few!

If you don't get a book dedicated to RF circuit design (like Hayward's "Experimental Methods") then at least get a copy of the ARRL handbook and follow the guidelines there. You can go wrong with them, but not too much.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

From -7747110989244137788
X-Google-Thread: fc2a5,878928413fc23737
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!news.glorb.com!uns-out.usenetserver.com!news.usenetserver.com!pc03.usenetserver.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew
References: <43f29$45b2b6a1$45011502$12674@KNOLOGY.NET>
<WvOdndogr7Tffi7YnZ2dnUVZ_oKnnZ2d@web-ster.com>
Subject: Re: Bad Colpitts osc Waveform
Date: Sun, 21 Jan 2007 16:49:25 -0600

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Xref: g2news2.google.com rec.radio.amateur.homebrew:8731


"Tim Wescott" <tim@seemywebsite.com> wrote in message
news:WvOdndogr7Tffi7YnZ2dnUVZ_oKnnZ2d@web-ster.com...
> amdx wrote:
>
>> Hi All,
>> Please see pictures and diagram at ABSE.
>>
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>>
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>> Base - 10vac riding on top of 1.8vdc
>> emitter - 1.1vac riding on top of 9vdc
>>
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>>
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>>
>>  Note; original schematic used a crystal, I substituted the LC. Could
>> this
>> be the
>> cause of the distortion?
>>
>>                                       Thanks,    Mike
```

>>
>>
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>
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> circuits on the oscillator, and following _that_ with an amplifier stage.
> You're not building tube equipment, transistors don't cost that much -- go
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>
> If you don't get a book dedicated to RF circuit design (like Hayward's
> "Experimental Methods") then at least get a copy of the ARRL handbook and
> follow the guidelines there. You can go wrong with them, but not too
> much.
>
> --
>
> Tim Wescott
> Wescott Design Services
> http://www.wescottdesign.com

Thanks Tim,

>The base biasing is _wrong_.
I tried Jim's voltage divider biasing arrangement, it didn't help the waveform, but I understand
the temperature sensitivity of the original.

>The ratio of C1 and C2 is also extreme.
This circuit and all values was taken from Joseph Carr's "Secrets of RF Design"

I did replace the crystal with the LC. He calls this a 1 to 20 Mhz crystal
osc.

>You can improve the waveform (and load the circuit less) by retaining the
>1nF "C2", increasing the capacitive reactance to the emitter with a smaller
>cap in series to the transistor emitter, and retaining the take-off point
>at the hot end of C2.

Sorry, I don't know if I understand what you suggest; Do you mean to say
connect
a small cap from the connection point of C1 and C2 and the connection point
of the
emitter and R2?

I have seen several Colpitts osc. that have an inductor in series with the
emitter resistor,
would that be useful? If so what value for 3 to 6 Mhz.

On another note; I noticed the base waveform is pretty good. Has anyone
seen a design that
lightly couples a signal from the base to maybe a FET and buffers it. Just a
thought!

Thanks,
Mike

From -8405423797533122837
X-Google-Thread: fc2a5,f3d1d9fb0d099f87
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!51g2000cwl.googlegroups.com!not-for-mail
From: "rile" <aleksandar.ristovski@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where to buy large area copper clad boards in Canada?
Date: 21 Jan 2007 17:32:11 -0800
Organization: http://groups.google.com
Lines: 87
Message-ID: <1169429531.057192.172980@51g2000cwl.googlegroups.com>
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1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
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Xref: g2news2.google.com rec.radio.amateur.homebrew:8732

Thank you for your answer;

I was at Cohen's but unfortunately they did not have any.


FrankW wrote:
> Cohen's on Merival had a bunch real cheap.
> I'd check it out and while your there check
> out Computer Recyclers on McFarland they might have some too.
>
> rile wrote:
> > ok, I was not precise. I am an amateur. What I am looking for is
> > getting copper board for less than what digikey is selling.
> >
> > When I say large, 12"x12" is large enough, even smaller. I think the
> > keyword is "cheap", not "large".
> >
> > I used to buy (in Eorope) large sheets (by weight, i.e. cheap) and then
> > cut the sizes I wanted. (where large is defined as approx 1m x 1m).
> > Here in Canada, I could not google up anything similar.
> >
> > p.s. I am in Ottawa, ON
> >
> >
> > Thank you!
> >
> > On Jan 19, 12:30 am, e...@FreeNet.Carleton.CA (Michael Black) wrote:
> >
> >>Highland Ham (abcgm0csz.kn6wh...@dsl.pipex.com) writes:
> >>
> >>>>>I saw a simillar question for buying copper clad board in UK, so I
> >>>>>thought someone might have an answer for Canada...
> >>
> >>>>>Thanks!
> >>
> >>>>Define "large". Which part of Canada?
> >>
> >>>>In Toronto I'd start with Active Surplus. In Vancouver, RP.
> >>
> >>>>Laura Halliday VE7LDH     "That's a totally illegal,
> >>>>Grid: CN89mg                    madcap scheme. I like it!"
> >>>>ICBM: 49 16.05 N 122 56.92 W        - H. Pearce
> >>
> >>>==========================
> >>>On some if not most  european continental amateur radio fleamarkets
> >>>cut-offs up to 1x1 ft are often sold by weight.
> >>>I have a healthy stock enabling me to also homebrew  enclosures.
> >>
> >>>Is this material not available from surplus traders frequenting North
> >>>American hamfests & fleamarkets ?
> >>
> >>>Frank    KN6WH / GM0CSZThat's the sort of answer I would have given, but I
wondered if it
> >>
> >>was a trick question.
> >>
> >>"Large area" suggests something really big, but if someone isn't
> >>familiar with what is available, then "large" might mean something
> >>more than a few inches.
> >>
> >>In 35 years, I've never bought blank circuit board new.  Starting
> >>with wretched board that cracked when you cut it and the copper came
> >>off when you soldered to it (but it was "surplus" and cheap at
> >>Etco Electronics back then), and then buying it at hamfests, and
> >>then the remaining old school electronic store here in Montreal (Addison
> >>Electronics), blank circuit board of all kinds of thickness and sizes
> >>and single or double sided has always been readily available.
> >>
> >>You're right, it can usually be had so cheap that it is a great thing
> >>to use for enclosures.  Unlike plastic, it's can provide shielding, but
> >>it's also a lot easier to work than equivalent thickness metal.  I've
> >>been known to strip off the copper and use the bare board when I need
> >>to make up some mechanical gadget, it being so easy to work with.
> >>
> >>Addison often has board that has been drilled for some production work,
> >>but not etched (or even had resist applied), which is even cheaper.  I
> >>can cut around it for small pieces, or if I'm just using the board for
> >>soldering to, the holes aren't even noticed.
> >>
> >>For the original poster, the Radio Amateurs of Canada have a website
> >>athttp://www.rac.caand they keep a list of upcoming hamfests, so it's
> >>easy to watch for one coming up nearby.  Though, it's really the off
> >>season and I doubt there will be many until the spring.
> >>
> >>  Michael  VE2BVW
> >
> >



From 6365865031403456079
X-Google-Thread: fc2a5,878928413fc23737
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!sn-xt-sjc-04!sn-xt-sjc-09!sn-xt-sjc-07!
```

sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: AaronJ <noemail@noemail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Bad Colpitts osc Waveform
Date: Sun, 21 Jan 2007 22:22:41 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <tei8r2tunaba329cdc1l9cmosplfvpilsh@4ax.com>
References: <43f29$45b2b6a1$45011502$12674@KNOLOGY.NET>
<1169347434.305831.276560@q2g2000cwa.googlegroups.com>
<6916f$45b2ec74$45011502$3459@KNOLOGY.NET> <ioNsh.6$Zi3.131201@news.sisna.com>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 6
Xref: g2news2.google.com rec.radio.amateur.homebrew:8733

"RST Engineering" <jim@rstengineering.com> wrote:

>Most of the current newsgroup servers have blocked the binaries groups. A
>lot of us can't get them.

20 cents a day will get your binaries back...

From 13402399145757599533
X-Google-Thread: fc2a5,878928413fc23737
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!38g2000cwa.googlegroups.com!not-for-mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Bad Colpitts osc Waveform
Date: 22 Jan 2007 04:54:29 -0800
Organization: http://groups.google.com
Lines: 25
Message-ID: <1169470469.470799.281940@38g2000cwa.googlegroups.com>
References: <43f29$45b2b6a1$45011502$12674@KNOLOGY.NET>
   <WvOdndogr7Tffi7YnZ2dnUVZ_oKnnZ2d@web-ster.com>
   <42e73$45b3ee0a$45011502$1284@KNOLOGY.NET>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1169470479 5126 127.0.0.1 (22 Jan 2007 12:54:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 22 Jan 2007 12:54:39 +0000 (UTC)
In-Reply-To: <42e73$45b3ee0a$45011502$1284@KNOLOGY.NET>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com

```
Injection-Info: 38g2000cwa.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news2.google.com rec.radio.amateur.homebrew:8734
```

amdx wrote:

> On another note; I noticed the base waveform is pretty good. Has anyone seen a design that lightly couples a signal from the base to maybe a FET and buffers it. Just a thought!

The collector waveform will always be much richer in harmonics than the base waveform. If you want to multiply up this is Good. If you see some random circuit in a handbook keep in mind that they may very well have intended it to be used for multiplying up 2x, 3x, 4x, etc. so the bias etc. may have been chosen just to make the waveform at the collector look un-sine-ish!

There are numerous oscillators that take the output signal from a tapped-down tank if they want a minimum of harmonic content. Tapping down helps minimize the effect of loading on the tank Q, but taking the signal from there will have at least some effect on oscillator stability. Another place that might like look slightly nicer from a waveform view (and may be lower impedance) is the emitter. And there exists oscillators that put a smallish resistor in series with the tank - the resistor value is chosen small to not degrade the tank Q very much, and the small voltage across the resistor looks very sine-wavish.

Tim.

```
From -6183776479212969046
X-Google-Thread: fc2a5,898aa1b553cef796,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m58g2000cwm.googlegroups.com!not-for-
mail
From: brm@netcabo.pt
Newsgroups: rec.radio.amateur.homebrew
Subject: FS  TMC GPR-90
Date: 22 Jan 2007 10:34:07 -0800
Organization: http://groups.google.com
Lines: 7
Message-ID: <1169490847.306641.29820@m58g2000cwm.googlegroups.com>
NNTP-Posting-Host: 87.196.134.122
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1169490853 14677 127.0.0.1 (22 Jan 2007 18:34:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 22 Jan 2007 18:34:13 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
```

```
Complaints-To: groups-abuse@google.com
Injection-Info: m58g2000cwm.googlegroups.com; posting-host=87.196.134.122;
   posting-account=pi_IEwwAAAC_e9KHgSIK5luDGmguQt1V
Xref: g2news2.google.com rec.radio.amateur.homebrew:8735

I have for sale the receiver TMC GPR-90
Photos at:http://brm.planetaclix.pt/T.htm
Location :Portugal (Lisboa)
Price: 385 Euros +shipping
Thanks, JM
CT1BRM




From 7995719820838709659
X-Google-Thread: fc2a5,878928413fc23737
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!90335db4!not-for-mail
From: John Ferrell <johnferrell@sprintmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Bad Colpitts osc Waveform
Message-ID: <js0ar29m8tqbjq28klnftn5gfqmn5rpqtj@4ax.com>
References: <43f29$45b2b6a1$45011502$12674@KNOLOGY.NET>
<1169347434.305831.276560@q2g2000cwa.googlegroups.com>
<6916f$45b2ec74$45011502$3459@KNOLOGY.NET> <ioNsh.6$Zi3.131201@news.sisna.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 20
Date: Mon, 22 Jan 2007 18:36:26 GMT
NNTP-Posting-Host: 24.148.146.7
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1169490986 24.148.146.7 (Mon, 22 Jan
2007 10:36:26 PST)
NNTP-Posting-Date: Mon, 22 Jan 2007 10:36:26 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8736

On Sun, 21 Jan 2007 09:27:36 -0800, "RST Engineering"
<jim@rstengineering.com> wrote:

>Most of the current newsgroup servers have blocked the binaries groups.  A
>lot of us can't get them.
>
>Jim
>
>
I have recently subscribed to a service from the Agent Newsreader
folks at http://www.forteinc.com/agent/support.php
```

For $2.95 per month I get 7G of upload/download. Where your usage
stands is available all the time. They claim to cover the entire
Usenet. It works for me.

BTW, are you the RST Engineering that used to make the Aviation
Electronics in the 1970's?

John Ferrell W8CCW

```
From -7519249979483646901
X-Google-Thread: fc2a5,878928413fc23737
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: "RST Engineering" <jim@rstengineering.com>
Newsgroups: rec.radio.amateur.homebrew
References: <43f29$45b2b6a1$45011502$12674@KNOLOGY.NET>
<1169347434.305831.276560@q2g2000cwa.googlegroups.com>
<6916f$45b2ec74$45011502$3459@KNOLOGY.NET> <ioNsh.6$Zi3.131201@news.sisna.com>
<js0ar29m8tqbjq28klnftn5gfqmn5rpqtj@4ax.com>
Subject: Re: Bad Colpitts osc Waveform
Lines: 25
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <948th.9$jx.95326@news.sisna.com>
Date: Mon, 22 Jan 2007 11:16:12 -0800
NNTP-Posting-Host: 70.41.242.222
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169493381 70.41.242.222 (Mon, 22 Jan 2007 12:16:21 MST)
NNTP-Posting-Date: Mon, 22 Jan 2007 12:16:21 MST
Organization: Internet News Service
X-Received-Date: Mon, 22 Jan 2007 12:16:22 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8737
```

"John Ferrell" <johnferrell@sprintmail.com> wrote in message
news:js0ar29m8tqbjq28klnftn5gfqmn5rpqtj@4ax.com...

> I have recently subscribed to a service from the Agent Newsreader
> folks at http://www.forteinc.com/agent/support.php
> For $2.95 per month I get 7G of upload/download. Where your usage
> stands is available all the time. They claim to cover the entire
> Usenet. It works for me.

Yeah, and $3 a month here and $5 a month there for stuff that wildblue ought to provide along with their $50 a month satellite service.

>
>
> BTW, are you the RST Engineering that used to make the Aviation
> Electronics in the 1970's?

And still do. www.rstengineering.com

Jim

From 5825715947974006120
X-Google-Thread: fc2a5,b6afe72609a1e3b9,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 22 Jan 2007 16:29:59 -0600
From: "John Doe" <hgorden@adelphia.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: LOOKING FOR INFO
Date: Mon, 22 Jan 2007 17:30:01 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <AKqdnWFBqLV6pyjYnZ2dnUVZ_ualnZ2d@adelphia.com>
Lines: 16
NNTP-Posting-Host: 69.162.152.98
X-Trace: sv3-aDYi0JFcVPm1HK5nvjYWvOJPZPXgJUujlit+dwYlpJIQhD0uBodHcOCXhRQ/
u1EK8hX7SglI32H3XlS!EFhSeQWJN/
ctmNqAynwrUoFUHd+lCE+3TCyh+LmEmqqWFduiIdVTDPbqYYx+SOXEPPUqioieVZLo!
oUHFnIOqOn5LfxTdLthejgUg/8AI
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8738

I have the following Microwave components and I am
LQQKing for pin-outs, schematics, pictorials, frequency ranges:

Wavecom/LORAL - RF Coaxial Switch
9130-B237-A1D-7B0, 28vdc

DowKey Microwave - RF Coaxial Switch
401-151, 28vdc

Chesapeake Microwave Technologies - 4/1 combiner?
86-0142, 4-8 GHz

Triangle Microwave Inc. - Bi-Directional Coupler?
CA-1568, Blue in color, 3 ports marked (IN -OUT-CPL)

```
From 7117880999080354263
X-Google-Thread: fc2a5,878928413fc23737
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!newshub.sdsu.edu!elnk-
nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!90335db4!not-for-mail
From: John Ferrell <johnferrell@sprintmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Bad Colpitts osc Waveform
Message-ID: <8e9cr29nebl3s1uvbnumiedjtnajgrs223@4ax.com>
References: <43f29$45b2b6a1$45011502$12674@KNOLOGY.NET>
<1169347434.305831.276560@q2g2000cwa.googlegroups.com>
<6916f$45b2ec74$45011502$3459@KNOLOGY.NET> <ioNsh.6$Zi3.131201@news.sisna.com>
<js0ar29m8tqbjq28klnftn5gfqmn5rpqtj@4ax.com> <948th.9$jx.95326@news.sisna.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 18
Date: Tue, 23 Jan 2007 15:16:38 GMT
NNTP-Posting-Host: 24.148.146.7
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1169565398 24.148.146.7 (Tue, 23 Jan
2007 07:16:38 PST)
NNTP-Posting-Date: Tue, 23 Jan 2007 07:16:38 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8739
```

```
>> BTW, are you the RST Engineering that used to make the Aviation
>> Electronics in the 1970's?
>
>And still do.  www.rstengineering.com
>
>Jim
>
Nice products. I still have a couple of your VOR testers that I mainly
used to verify my radios worked before departing the Bahamas on an
international IFR flight plan. After the plane had set a couple of
weeks it was nice to know the Navs were working before getting
```

airborne.

I probably ought to EBAY them. I have not used either for over 20
years and will have no use in the future!

John Ferrell W8CCW

From -7068642693657132034
X-Google-Thread: fc2a5,177fd05bec360a92
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews7.bellsouth.net.POSTED!ef49a7c3!not-for-mail
From: Ted <kilocycles@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Easy to build low power meter
Message-ID: <fu7dr2h84l4iifr6pe9uupetajqs713pns@4ax.com>
References: <1169049225.440373.43140@l53g2000cwa.googlegroups.com>
X-Newsreader: Forte Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 26
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
enggpaojkliedbjjdbdpiflmbcekedmfhojhikkbagflhcbocanaeglcaglioeicaebckapdlcgdmfgdok
ompnccapjgkdbfhlbjpbippnceoinfolcepfpblegecelajdnpfhpcbbaejjdojklfldhcknaocike
NNTP-Posting-Date: Tue, 23 Jan 2007 19:06:10 EST
Organization: BellSouth Internet Group
Date: Tue, 23 Jan 2007 19:06:23 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8740

You might check www.nogaqrp.org and look at "Kits" and the NoGaWaTT.
It can be built for the 0-6 Watt range, or milliWatts. It is pretty
accurate.

Also, if you are an ARRL member, go to the ARRL site and look for the
article on the log power meter. Near the end of the article, there is
information on an accessory higher power attenuator good for up to 100
Watts that you may be able to adapt to output to a 0-5 Watt range
meter (rather than the much lower power range of the log power meter,
a test instrument which only reads to about 5 milliWatts, or 7 dBm).
Ted kx4om

On 17 Jan 2007 07:53:45 -0800, "tladotse" <w4tki.kenn@gmail.com>
wrote:

>I want to build a power meter for the hf bands that has maybe three
>scales: something like 0 to 1 watt, 1 to 5 watts and 5 to 25 watts. I
>had one I built for 1-5 watts one time and remember it was easy

>measuring across a voltage divider resistance network. Can't find the
>schematic rite now.
>I enjoy working qrp and it would be a useful asset in the shack.
>I also might want to add a circuit to it for attenuator since my rig
>only goes down to 5 watts.
>thanks and 73
>W4TKI
>Kennon

From -5191180951263891360
X-Google-Thread: fc2a5,878928413fc23737
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!proxad.net!news.tele.dk!news.tele.dk!small.news.tele.dk!ltu.se!luth.se!193.180.251.40.MISMATCH!erinews.ericsson.se!news.al.sw.ericsson.se!not-for-mail
From: "Harry Lethall" <oeieio@NOSPAAM.hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Bad Colpitts osc Waveform
Date: Wed, 24 Jan 2007 15:54:11 +0100
Organization: Ericsson
Lines: 15
Message-ID: <ep7ruj$o1c$1@news.al.sw.ericsson.se>
References: <43f29$45b2b6a1$45011502$12674@KNOLOGY.NET>
NNTP-Posting-Host: eh734003ct91qfe.ki.sw.ericsson.se
X-Trace: news.al.sw.ericsson.se 1169650451 24620 147.214.158.159 (24 Jan 2007 14:54:11 GMT)
X-Complaints-To: abuse@ericsson.se
NNTP-Posting-Date: Wed, 24 Jan 2007 14:54:11 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1896
Xref: g2news2.google.com rec.radio.amateur.homebrew:8741

> I duplicated a circuit for someone because they got a bad
> output waveform.
> As I shift up in freq at about 2.7Mhz the voltages jump.

If the voltages suddenly jump with frequency change then this is a sign of instability. Not seen the circus digramus confusicus, but if it is a colpits then reduce the gain by adjusting the ratio of the two divider capacitors. I assume, of course, that you have adequately decoupled the supply line, and that there is no inductive coupling/feedback.

Instability causes eratic frequency and/or severe distortion. In particularly bad conditions it can cause unwanted visitors (CBers, neighbours, DTI, etc.).

```
From -7837808573110570922
X-Google-Thread: fc2a5,aa7b2af91da2295d,start
X-Google-Thread: fcc6e,aa7b2af91da2295d,start
X-Google-Thread: 112d1e,aa7b2af91da2295d,start
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
208.49.83.154.MISMATCH!uns-out.usenetserver.com!news.usenetserver.com!
pc02.usenetserver.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design
Subject: QEX Magazines WTB
Date: Wed, 24 Jan 2007 12:53:24 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <eaad1$45b7ab2f$45011502$5207@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 12
X-Trace: eaad145b7ab2fe0a4b0a705207
Xref: g2news2.google.com rec.radio.amateur.homebrew:8742
rec.radio.amateur.antenna:24446 sci.electronics.design:144694

Hi,
 I'm interested in buying a collection of QEX magazines.
I'd like to go back about 10 years, but any years is better than none.
If you have QEX your willing to sell please contact me offline.
      Mike Knowlton
       amdxdiscard@knology.net

    To reply please discard the word discard.

                                      Thanks, Mike




From -4801071452590231861
X-Google-Thread: fc2a5,ddc1f39766174658,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-xxxfer.readnews.com!textspool1.readnews.com!news-
out.readnews.com!postnews3.readnews.com!not-for-mail
Subject: attn: clementina - awesome posts -  mugyi zuzbi voryi - (1/1)
From: wally <nevermind@alswiti.name>
Newsgroups: rec.radio.amateur.homebrew
```

Message-ID: <5581i2516I819193k5596886n5762X535416822E6714870419V@news.alswiti.name>
Sender: nevermind@alswiti.name
Reply-To: nevermind@alswiti.name
Date: 24 Jan 2007 21:14:20 GMT
Lines: 47
NNTP-Posting-Host: 7874d6df.reader.athenanews.com
X-Trace: DXC=VBnCKWKD4M58iEKM3Kj859aTHcV2NR;j;:LKFL\Y2Oo:5KFRcdjDfh<fM@i;lfOU39ZO<30UVGRV=1;N;Y2o[g1:AjUB>FAVM>:
X-Complaints-To: abuse@athenanews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8743

I think everyone will enjoy this, just wanted to share!

Take a look at all the great features below and imagine! You'll LOVE it.
Images, video, mp3 music, the real news from around the world... it's all inside waiting for you.
One thing I love about them, they don't keep log files of the news I read or files I download.

Very long retention
Blazing fast downloads
Keyword searchable
Streaming audio and video

So go there now: http://newsdude.net

Pizcamuzhol, jenho dinbih em i nap. Weltasafnap uc edlu i iyvo
emyu! Odju ehto olda ojde ihje per mi ut kos! Juhme gikyi us ihcu inri aype cam ji vokvo.
Kezwi zuh hi towbi kolve. Li robvu top li oz ev elji ej i etge! Azve i enza ec ikyo i umkofepzin
obzuvesdif i izso fiv or. Ogya om gim dupta ci al! Uwzocijjip i juc conpuvimsig ri
woggeb pavsu tas og! I ozwu asho arhi i imtekasmuv upgufugsad icfo! Uvze i dat pobmu
bi ug apjuhuwrip saz pi hahzojehnab! Lajtufocnut teb dib ep il i otba! Ig ey i ulno
apcu ujwa it. I por repyihofrib suvni tag. Buy simga juhbu pi rulmasayfig! Vag ef
faz cadme ni tac. Ov i uszarokkec viv zi tawyilofris rotgu wabwa ji rek bowvidebyuw.
Aw al i weg hodwiroflaf revhi il i uywo ivjo unme, ir i ennalecvos ojso onbo cog pi
woyzamajrol nit! Zadzu kip manmu uy efze! Poc ec ejki eyci anha om uw i miw ip! Rov
am i uj ec iz faz vi mug. Fodso oy an uvnu i obpihewnob alja i idkiw ippojelfug! New
di bot ticlu wubku si wohluzipgid ez elfu erze i avmi! Lan motte ti soryu zuj ev i esfocazwuv
idwojogluc i ugnecumfef ansa! Ucri al muy gi hocgukirdak ez uzse, uy abfa ot, jeg
zupga rendi jufga findu gen! Wuj ev peb bi luche bukwucepdew reyfarabvu lub ci huphe

ed, umda day hi bipli gajzivibmuv bi oy, okmo i eygi upjelafrot tor namso, hi vod
riylifibhis iz uk mor wej. As igga oy i iwka ubnopugpuz eb! Ukha i fuz od paj. Eg
i iryanerbat
olwizownud izvu ecpo i ovtudigwow icgacezfuz. I itre ulcekuyreb koh voz ji fas
um ol huf rob! Sit gik tivpu ni lup meprudifvot, hi fowfe zuvbehahjaf af, uwnu
afbi
efmi ecto i itcif octu tek, or i bof tav ranya tuj, at i oplo ew fok nupfo, jodhu
dup
oh osdu i tik punmuhuznun sid bog! Ep foj wodbe zug pajfe zepyu ri lucjerepzad
hopjazavfil!
Mus nepwi ri mawto her canra gi vif eb ul! Kis wik vavri bi royzuraztep
dilrekucgeh
hi fevtomuvmib honsociwgew li gemjo. Bejpizijhev di lan iy. I uytu ajyavamtuj
uvfu i adze. Od i ag ah i og acsesifhaz i evmoritkat. Nan gi noljonatven dagha pi
hafkuhoprad!
Nisse jopfu kugwi gesbi ej iz uwpu, at baf di et ok. I ukye avvu i ihkasegke.
Ezkozorguh
i ed ervowulhew el i hat jazvifakcar vi ut udva edla, gat wi af ihyi! Umvu ocka
oh!
Uwsu i obva udni i kun rec lih. Ok i ipnemimzed op i irto hov burhu monse hi
wiltop zuyzotuvvim.
Ri wunkisifwet or uv ik, idpe sum zastu supso li hapdajeffid sifbi on! Bed ri
dimne
niw. Ji dud ay i foj seybarilnoh bi nazbo timca nud. Ec un okda jic. Ti un
opvegorrag
i usbotoghac ihtogalnet ahwi ajda! Adco odle i las fovposerbid kaswu li
pibmapulyav
hedsu. Ti daw zuf vip zolpo relwe! Pusfe hi jiflu wikra ok af i ihgo, okrowujres
ehca
ajyu om zok haldi ut ozya oj! Ifye udho i tib log wi tif jupyu wi es ezdu ub, pos
li jiyyo
kectu ri mihdejuglov. Dobdi bezku lorko. Mi degpe vuvno fucda pabke ac kov vanza.
Ci lefji sukkegilkof kekle cubyir ap og. I ...

From -4177122121634288800
X-Google-Thread: fc2a5,aa7b2af91da2295d
X-Google-Thread: fcc6e,aa7b2af91da2295d
X-Google-Thread: 112d1e,aa7b2af91da2295d
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe06.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design
References: <eaad1$45b7ab2f$45011502$5207@KNOLOGY.NET>
Subject: Re: QEX Magazines WTB
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028

```
X-RFC2646: Format=Flowed; Response
Message-ID: <hiQth.526$do5.349@newsfe06.lga>
X-Trace:
lalincmlnekeejjfkannfilpcpbbolnmpiihkbblahhfljannicfceledepkikoolhlefpnpglhfdcnhji
ahhkfegmgiglhpgdpklbagjikbenhcmdbjjhneeehhdieohlimokjclcciclpf
NNTP-Posting-Date: Wed, 24 Jan 2007 14:35:09 MST
Date: Wed, 24 Jan 2007 16:34:03 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8744
rec.radio.amateur.antenna:24461 sci.electronics.design:144722

Mike

Let me suggest the ARRL publications CD.  You get QST, QEX and NCD.  I like
them because I can then toss the paper QST copies, saving space, but better
yet, you can print out the schematics, PCB layouts, etc, mark them up, cut
them up, without guilt.  The recent years are all PDF so you can sut the
parts lists and paste them into a spreadsheet as you go collecting parts,
pick out tables of interest and concentrate them into a reference binder,
etc.

..

"amdx" <amdx@knology.net> wrote in message
news:eaad1$45b7ab2f$45011502$5207@KNOLOGY.NET...
> Hi,
> I'm interested in buying a collection of QEX magazines.
> I'd like to go back about 10 years, but any years is better than none.
> If you have QEX your willing to sell please contact me offline.
>      Mike Knowlton
>       amdxdiscard@knology.net
>
>    To reply please discard the word discard.
>
>                                      Thanks, Mike
>




From 1656613663101144569
X-Google-Thread: fc2a5,aa7b2af91da2295d
X-Google-Thread: fcc6e,aa7b2af91da2295d
X-Google-Thread: 112d1e,aa7b2af91da2295d
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr14.news.prodigy.net.POSTED!00eff025!not-for-
mail
From: Cecil Moore <mycall@hotmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups:
```

```
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design
Subject: Re: QEX Magazines WTB
References: <eaad1$45b7ab2f$45011502$5207@KNOLOGY.NET>
In-Reply-To: <eaad1$45b7ab2f$45011502$5207@KNOLOGY.NET>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 6
Message-ID: <eDQth.75396$wP1.43730@newssvr14.news.prodigy.net>
NNTP-Posting-Host: 71.149.147.158
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr14.news.prodigy.net 1169675850 ST000 71.149.147.158 (Wed, 24 Jan
2007 16:57:30 EST)
NNTP-Posting-Date: Wed, 24 Jan 2007 16:57:30 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
T[O]STVEMBRSP_@YMZJ\_Q\@TJ_ZTB\MV@BZMVMHQAVTUZ]CLNTCPFK[WDXDHV[K^FCGJCJLPF_D_NCC@F
UG^Q\DINVAXSLIFXYJSSCCALP@PB@\OS@BITWAH\CQZKJMMD^SJA^NXA\GVLSRBD^M_NW_F[YLVTWIGAXA
QBOATKBBQRXECDFDMQ\DZFUE@\JM
Date: Wed, 24 Jan 2007 21:57:30 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8745
rec.radio.amateur.antenna:24467 sci.electronics.design:144732

amdx wrote:
>  I'm interested in buying a collection of QEX magazines.

They are available on CD from the ARRL.
--
73, Cecil  http://www.w5dxp.com


From -834361187312161658
X-Google-Thread: fc2a5,aa7b2af91da2295d
X-Google-Thread: fcc6e,aa7b2af91da2295d
X-Google-Thread: 112d1e,aa7b2af91da2295d
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!uns-out.usenetserver.com!
news.usenetserver.com!pc03.usenetserver.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design
References: <eaad1$45b7ab2f$45011502$5207@KNOLOGY.NET>
<eDQth.75396$wP1.43730@newssvr14.news.prodigy.net>
Subject: Re: QEX Magazines WTB
Date: Wed, 24 Jan 2007 18:04:46 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <61364$45b7f42f$45011502$24608@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
```

```
Lines: 15
X-Trace: 6136445b7f42fe0a4b0a724608
Xref: g2news2.google.com rec.radio.amateur.homebrew:8746
rec.radio.amateur.antenna:24476 sci.electronics.design:144776


"Cecil Moore" <mycall@hotmail.com> wrote in message
news:eDQth.75396$wP1.43730@newssvr14.news.prodigy.net...
> amdx wrote:
>>  I'm interested in buying a collection of QEX magazines.
>
> They are available on CD from the ARRL.
> --
> 73, Cecil  http://www.w5dxp.com


Thanks, but I would prefer the magazines.
                                       Mike





From -7473158634316364905
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.maxwell.syr.edu!news-
north.connect.com.au!not-for-mail
From: AussieDrifter <Mark__Rutherford@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave UPDATE
Date: Thu, 25 Jan 2007 18:48:14 +1100
Organization: Customer of AAPT Pty Ltd
Lines: 46
Message-ID: <ep9nc1$skm$1@news-02.connect.com.au>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
<1166031794.175793.239780@n67g2000cwd.googlegroups.com>
<slrneo0lat.1b3.gsm@cable.mendelson.com>
<gIqdnWuSo6F8RB3YnZ2dnUVZ8s6qnZ2d@pipex.net>
<1168813493.411646.108020@a75g2000cwd.googlegroups.com>
<1168856900.889905.192880@s34g2000cwa.googlegroups.com>
<slrneqmvfg.4lb.gsm@cable.mendelson.com>
<1168946108.736138.58130@a75g2000cwd.googlegroups.com>
NNTP-Posting-Host: cor3-ppp1271.can.dsl.connect.net.au
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news-02.connect.com.au 1169711297 29334 210.10.241.1 (25 Jan 2007
07:48:17 GMT)
X-Complaints-To: abuse@connect.com.au
NNTP-Posting-Date: Thu, 25 Jan 2007 07:48:17 +0000 (UTC)
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
In-Reply-To: <1168946108.736138.58130@a75g2000cwd.googlegroups.com>
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:8747

Guys,

The Sony XR-5100 in car cassette AM/FM/SW radio is a great little performer, and its mounted in my Pajero 4x4. I ordered my from the Shortwave Store and picked it up when I was in Hawaii for my Wedding and Honey Money 2 year ago (Else delivery cost to Australia was not going to be worth it). Whenever I head out camping or just day trip I always have a Shortwave Radio with me, without worrying about packing a portable shortwave.

The only downside is the radio beeps when you press the tunning buttons. So If you know what freq you want then you hold the tuning button until you get there else you let it scan and stop on freq whichever you desire. BTW it does have a remote control which I love as when I'm sitting on the back tail gate / boot I can easy control the radio and volume from back there :)

To make it more effective I carry two bits of random wire BLUEY 1 - 10foot blue light wire cable for short stops by the side of the road and BLUEY 2 - a 100m drum of light wire cable for when I have time to run a good bit of length.

I would highly recommend this radio, but if you can unlike mine do not run it though a electric car antenna, however that said, when the car is stationary and engine turned off the electric antenna is fine, and even better when extended with a bit of wire :)

Regards
Mark

Location: Canberra Australia
Radio: Icom R75 with DSP options
Antenna: Cliff Dweller 2
Website: http://people.aapt.net.au/~mark_rutherford/

NT0Z wrote:
> The particular Sony model I mentioned tunes in 9 or 10 kHz steps on the
> AM BC band. It's obviously meant for use on either side of the
> Atlantic... :) Wish I owned one!
>
> --Kirk, NT0Z
>

From 343015374573808722
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.maxwell.syr.edu!news-south.connect.com.au!news-north.connect.com.au!not-for-mail
From: AussieDrifter <Mark__Rutherford@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave UPDATE
Date: Thu, 25 Jan 2007 18:53:23 +1100
Organization: Customer of AAPT Pty Ltd
Lines: 57
Message-ID: <45B861F3.6070401@hotmail.com>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
<1166031794.175793.239780@n67g2000cwd.googlegroups.com>
<slrneo0lat.1b3.gsm@cable.mendelson.com>
<gIqdnWuSo6F8RB3YnZ2dnUVZ8s6qnZ2d@pipex.net>
<1168813493.411646.108020@a75g2000cwd.googlegroups.com>
<1168856900.889905.192880@s34g2000cwa.googlegroups.com>
<slrneqmvfg.4lb.gsm@cable.mendelson.com>
<1168946108.736138.58130@a75g2000cwd.googlegroups.com>
<ep9nc1$skm$1@news-02.connect.com.au>
NNTP-Posting-Host: cor3-ppp1271.can.dsl.connect.net.au
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news-02.connect.com.au 1169711604 29568 210.10.241.1 (25 Jan 2007 07:53:24 GMT)
X-Complaints-To: abuse@connect.com.au
NNTP-Posting-Date: Thu, 25 Jan 2007 07:53:24 +0000 (UTC)
To: AussieDrifter <Mark__Rutherford@hotmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
In-Reply-To: <ep9nc1$skm$1@news-02.connect.com.au>
Xref: g2news2.google.com rec.radio.amateur.homebrew:8748

BTW That's HONEYMOON not Honey Money..... Sorry Darling :):)

Location: Canberra Australia
Radio: Icom R75 with DSP options
Antenna: Cliff Dweller 2
Website: http://people.aapt.net.au/~mark_rutherford/

AussieDrifter wrote:
> Guys,
>
> The Sony XR-5100 in car cassette AM/FM/SW radio is a great little
> performer, and its mounted in my Pajero 4x4. I ordered my from the
> Shortwave Store and picked it up when I was in Hawaii for my Wedding and
> Honey Money 2 year ago (Else delivery cost to Australia was not going to
> be worth it). Whenever I head out camping or just day trip I always
> have a Shortwave Radio with me, without worrying about packing a
> portable shortwave.
>

> The only downside is the radio beeps when you press the tunning buttons.
> So If you know what freq you want then you hold the tuning button until
> you get there else you let it scan and stop on freq whichever you
> desire. BTW it does have a remote control which I love as when I'm
> sitting on the back tail gate / boot I can easy control the radio and
> volume from back there :)
>
> To make it more effective I carry two bits of random wire BLUEY 1 -
> 10foot blue light wire cable for short stops by the side of the road and
>   BLUEY 2 - a 100m drum of light wire cable for when I have time to run
> a good bit of length.
>
> I would highly recommend this radio, but if you can unlike mine do not
> run it though a electric car antenna, however that said, when the car is
> stationary and engine turned off the electric antenna is fine, and even
> better when extended with a bit of wire :)
>
> Regards
> Mark
>
> --
>
> Location: Canberra Australia
>   Radio: Icom R75 with DSP options
> Antenna: Cliff Dweller 2
> Website: http://people.aapt.net.au/~mark_rutherford/
>
> NT0Z wrote:
>> The particular Sony model I mentioned tunes in 9 or 10 kHz steps on the
>> AM BC band. It's obviously meant for use on either side of the
>> Atlantic... :) Wish I owned one!
>>
>> --Kirk, NT0Z
>>
>
>

From -5206313623459221726
X-Google-Thread: fc2a5,aa7b2af91da2295d
X-Google-Thread: fcc6e,aa7b2af91da2295d
X-Google-Thread: 112d1e,aa7b2af91da2295d
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!
newsfeed.news.ucla.edu!newsfeed.media.kyoto-u.ac.jp!newsfeeds.ihug.co.nz!
lust.ihug.co.nz!ihug.co.nz!not-for-mail
From: Barry Lennox <bt.l.barryl@spamgourmet.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design
Subject: Re: QEX Magazines WTB
Date: Thu, 25 Jan 2007 23:39:00 +1300
Organization: Slingshot Internet

```
Lines: 25
Message-ID: <iivgr2tc426dirmiieue7ddju0b8l77439@4ax.com>
References: <eaad1$45b7ab2f$45011502$5207@KNOLOGY.NET>
<eDQth.75396$wP1.43730@newssvr14.news.prodigy.net>
<61364$45b7f42f$45011502$24608@KNOLOGY.NET>
NNTP-Posting-Host: news.tranzpeer.net
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: lust.ihug.co.nz 1169721443 8289 202.180.64.19 (25 Jan 2007 10:37:23 GMT)
X-Complaints-To: abuse@ihug.co.nz
NNTP-Posting-Date: Thu, 25 Jan 2007 10:37:23 +0000 (UTC)
X-Newsreader: Forte Free Agent 1.93/32.576 English (American)
Cache-Post-Path: ftpsrv1!unknown@124.197.44.23
X-Cache: nntpcache 2.3.3 (see http://www.nntpcache.org/)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8749
rec.radio.amateur.antenna:24534 sci.electronics.design:144871

On Wed, 24 Jan 2007 18:04:46 -0600, "amdx" <amdx@knology.net> wrote:

>
>"Cecil Moore" <mycall@hotmail.com> wrote in message
>news:eDQth.75396$wP1.43730@newssvr14.news.prodigy.net...
>> amdx wrote:
>>>  I'm interested in buying a collection of QEX magazines.
>>
>> They are available on CD from the ARRL.
>> --
>> 73, Cecil  http://www.w5dxp.com
>
>
>Thanks, but I would prefer the magazines.
>                                       Mike
>

Damm!  I dumped a few years worth, when I bought the ARRL CD. Now I
keep up by buying the annual CD from ARRL, in each Feb, or
thereabouts. It has QEX, QST and NCJ on it.

The CQ one is also pretty good, even although it has some articles
withheld because of copyright arguments, mainly fractal antennas.

Barry



From 6007752057394753275
X-Google-Thread: fc2a5,aa7b2af91da2295d
X-Google-Thread: fcc6e,aa7b2af91da2295d
X-Google-Thread: 112d1e,aa7b2af91da2295d
X-Google-Attributes: gidfc2a5,gidfcc6e,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
```

```
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news01.roc.ny.POSTED!53ab2750!
not-for-mail
From: Bill Janssen <billj@ieee.org>
Reply-To:  billjNOT_THIS@ieee.org
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.design
Subject: Re: QEX Magazines WTB
References: <eaad1$45b7ab2f$45011502$5207@KNOLOGY.NET>
<eDQth.75396$wP1.43730@newssvr14.news.prodigy.net>
<61364$45b7f42f$45011502$24608@KNOLOGY.NET>
<iivgr2tc426dirmiieue7ddju0b8l77439@4ax.com>
In-Reply-To: <iivgr2tc426dirmiieue7ddju0b8l77439@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 35
Message-ID: <ao5uh.1263$B25.899@news01.roc.ny>
X-Complaints-To: abuse-news@frontiernet.net
X-Trace:
52616e646f6d4956aa8b238aa2f708cb997bb5f5427f166485b28d76e552b1eda8ebf5e4501549c8fe
83b457e655b3a7f29aa82c1f0496681a229fa4181df535c9d1af74d9bb2ec7a7fe65d8d00dbb0eff7b
0229619528667a5eda7f58866e5a62cb2afeb3413f12b2da89d5b361f80c
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Thu, 25 Jan 2007 17:01:58 UTC
Date: Thu, 25 Jan 2007 17:01:58 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8750
rec.radio.amateur.antenna:24550 sci.electronics.design:144980

Barry Lennox wrote:
> On Wed, 24 Jan 2007 18:04:46 -0600, "amdx" <amdx@knology.net> wrote:
>
>
>> "Cecil Moore" <mycall@hotmail.com> wrote in message
>> news:eDQth.75396$wP1.43730@newssvr14.news.prodigy.net...
>>
>>> amdx wrote:
>>>
>>>>  I'm interested in buying a collection of QEX magazines.
>>>>
>>> They are available on CD from the ARRL.
>>> --
>>> 73, Cecil  http://www.w5dxp.com
>>>
>> Thanks, but I would prefer the magazines.
>>                                        Mike
>>
>>
>
> Damm!  I dumped a few years worth, when I bought the ARRL CD. Now I
> keep up by buying the annual CD from ARRL, in each Feb, or
> thereabouts. It has QEX, QST and NCJ on it.
```

>
> The CQ one is also pretty good, even although it has some articles
> withheld because of copyright arguments, mainly fractal antennas.
>
> Barry
>
I still have most issues (maybe all). But shipping them to someone, even
to the state next door,
would probably be too costly. They will probably go into a dumpster some
day.

Bill K7NOM

From 4788374633862372068
X-Google-Thread: 10b159,3750c10e39df40ec,start
X-Google-Thread: fc2a5,3750c10e39df40ec,start
X-Google-Thread: 10dde4,3750c10e39df40ec,start
X-Google-Thread: 108a4b,3750c10e39df40ec,start
X-Google-Thread: f6805,3750c10e39df40ec,start
X-Google-Attributes: gid10b159,gidfc2a5,gid10dde4,gid108a4b,gidf6805,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!
news2.euro.net!66.150.105.54.MISMATCH!nntpserver.com!zeus.nntpserver.com!
10.1.1.50.MISMATCH!not-for-mail
Message-Id: <m07002520322977@4ax.com>
Subject: MI5 Persecution: Toronto Freenet supports free speech (328)
Newsgroups:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp
Followup-To:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 25 Jan 2007 19:38:06 GMT
Lines: 38
NNTP-Posting-Date: 25 Jan 2007 19:38:06 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com microsoft.public.es.windowsxp:95655
rec.radio.amateur.homebrew:8751 microsoft.public.it.winserver:38995
fr.rec.photo.materiel:10768 microsoft.public.fr.windowsxp:97363

Despite an orchestrated campaign of attempted censorship by UK-resident newsgroup
readers, TFN did not bow
to demands for a suppression of freedom of speech. TFN general policy on the
matter is as follows;

Draft Policy on Account Deactivations due to News Group Postings
==

News group postings occasionally take the form of a message which goes against the
"topic" of the conference.

For example, a derogatory message about Canadians in the soc.culture.canada.

Members of such news groups then may send a message to the system administrators asking that a user's account
be terminated because of such posting.

The Toronto Free-Net Board of Directors has taken the position that the only postings that will get a person's
account terminated is material that is illegal under Canadian law. Otherwise, the Toronto Free-Net will not
take any action.

Freenet Executive Director Mike Anderson had this to say regarding the continued attempts of a minority of usenet
participants to have my account on his system deactivated;

The TFN's policy is not to take action against members unless they contravene the Criminal Code of Canada, or
engage in practices such as forgery, attacks against other computer systems or mailbombing.

Mr. Corley, while possibly being very annoying, has not contravened the TFN's policies. The TFN believes strongly
in freedom of expression, while recognizing that the price for such freedom may be a high signal-to-noise ratio in Usenet.

If Mr. Corley breaks the law, we will take action -- until then, he has the same rights as any TFN member to post
to Usenet newsgroups. Actions such as mailbombing the TFN in protest will be met by strong complaints to the
originating site's postmaster. The best defense against unwanted postings may be simply be to ignore them and deny
the poster an audience.

TFN Executive Director Toronto, Ont CANADA

Personally, I find it gratifying that my contributions to usenet discussion are recognized as being conducive
to a high signal-to-noise ratio by their quality and thoughtfulness.

328

--
Posted via a free Usenet account from http://www.teranews.com

```
From 4921920610759378804
X-Google-Thread: 10b159,79dff227240d99bf,start
X-Google-Thread: fc2a5,79dff227240d99bf,start
X-Google-Thread: 10dde4,79dff227240d99bf,start
X-Google-Thread: 108a4b,79dff227240d99bf,start
```

```
X-Google-Thread: f6805,79dff227240d99bf,start
X-Google-Attributes: gid10b159,gidfc2a5,gid10dde4,gid108a4b,gidf6805,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-
online.de!feeder.news-service.com!news2.euro.net!66.150.105.54.MISMATCH!
nntpserver.com!zeus.nntpserver.com!10.1.1.50.MISMATCH!not-for-mail
Message-ID: <m07002520425890@4ax.com>
Subject: MI5 Persecution: Intelligence agency sources on the Web (1233)
Newsgroups:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp
Followup-To:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 25 Jan 2007 19:48:36 GMT
Lines: 30
NNTP-Posting-Date: 25 Jan 2007 19:48:36 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com microsoft.public.es.windowsxp:95659
rec.radio.amateur.homebrew:8752 microsoft.public.it.winserver:38996
fr.rec.photo.materiel:10769 microsoft.public.fr.windowsxp:97364
```

Intelligence agency sources on the Web

http://intelweb.janes.com/

Intelligence Watch Report covers public and private intelligence agencies around the world.

kim-spy

http://www.kimsoft.com/kim-spy.htm

The Korea WebWeekly kim-spy Intelligence and Counter-Intelligence link page.

http://www.lobster-magazine.co.uk/

Lobster Journal publishes research on the intelligence community.

http://cryptome.org/

Cryptome is an online source of intelligence related material.

http://www.mi5.gov.uk/

MI5 has a website, too, but you should prepare yourself for some serious "alternative reality" if you plan to visit it.

1233

--
Posted via a free Usenet account from http://www.teranews.com

```
From 7617323724604286126
X-Google-Thread: 10b159,df7f414d85d0eb00,start
X-Google-Thread: fc2a5,df7f414d85d0eb00,start
X-Google-Thread: 10dde4,df7f414d85d0eb00,start
X-Google-Thread: 108a4b,df7f414d85d0eb00,start
X-Google-Thread: f6805,df7f414d85d0eb00,start
X-Google-Attributes: gid10b159,gidfc2a5,gid10dde4,gid108a4b,gidf6805,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.50.MISMATCH!not-for-mail
Message-Id: <m07002520533103@4ax.com>
Subject: MI5 Persecution: Newsgroup members join in the discussion (2138)
Newsgroups:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp
Followup-To:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 25 Jan 2007 19:59:08 GMT
Lines: 16
NNTP-Posting-Date: 25 Jan 2007 19:59:08 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com microsoft.public.es.windowsxp:95660
rec.radio.amateur.homebrew:8753 microsoft.public.it.winserver:38998
fr.rec.photo.materiel:10770 microsoft.public.fr.windowsxp:97366
```

Newsgroup members join in the discussion

Peter Kr�ger writes about "Dirk Gently on the Toronto Case".

Hotchkies FAQ: Looking at it from a medical viewpoint. The diagnosis is obvious, isn't it?

Accolades for the Web Site
Read what people said about this web site.

Visitor count: since August 11, 1996

Toronto Freenet supports free speech

2138

--

Posted via a free Usenet account from http://www.teranews.com

---

From 6980599175292557724
X-Google-Thread: 10b159,dc3b8f70eed3a891,start
X-Google-Thread: fc2a5,dc3b8f70eed3a891,start
X-Google-Thread: 10dde4,dc3b8f70eed3a891,start
X-Google-Thread: 108a4b,dc3b8f70eed3a891,start
X-Google-Thread: f6805,dc3b8f70eed3a891,start
X-Google-Attributes: gid10b159,gidfc2a5,gid10dde4,gid108a4b,gidf6805,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.gamma.ru!Gamma.RU!
newsfeed.icl.net!newsfeed.fjserv.net!colt.net!feeder.news-service.com!feeder.news-
service.com!news2.euro.net!66.150.105.54.MISMATCH!nntpserver.com!
zeus.nntpserver.com!10.1.1.50.MISMATCH!not-for-mail
Message-Id: <m07002521114111@4ax.com>
Subject: MI5 Persecution: BBC's Hidden Shame 4/5/95 (328)
Newsgroups:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp
Followup-To:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 25 Jan 2007 20:17:19 GMT
Lines: 102
NNTP-Posting-Date: 25 Jan 2007 20:17:19 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com microsoft.public.es.windowsxp:95664
rec.radio.amateur.homebrew:8754 microsoft.public.it.winserver:38999
fr.rec.photo.materiel:10771 microsoft.public.fr.windowsxp:97369

Date: Thu May 4 18:27:24 1995
Newsgroups: alt.conspiracy
Subject: BBC's Hidden Shame

Remember the two-way televisions in George Orwell's 1984?
The ones which watched you back? Which you could never get
rid of, only the sound could be turned down?

Well the country which brought Orwell into the world has
made his nightmare follow into the world after him.
Since 1990 the British have been waging war against one of
their own citizens using surveillance to invade privacy
and a campaign of abuse in the transmitted media in
their efforts to humiliate their "victim".

And the most remarkable thing about it is that what they
do is not even illegal - the UK has no laws to protect
the privacy of its citizens, nor does it proscribe
harassment or abuse except in the case of racial abuse.

A lot of people in England know this to be going on,
yet so far they have maintained perfect "omerta";
not a sound, not a squeak has escaped into the English
press, and for all the covert harassment absolutely
nothing has come out into the public domain.

Have the British gone mad? I think we should be told.

From: "Mr.B" <dgb01@stir.ac.uk>
Newsgroups: alt.conspiracy
Subject: Re: BBC's Hidden Shame
Date: Mon May 8 05:32:13 1995

Mmmm.

Who, exactly is this victim you're talking about?

First up, Britain or the UK (not 'England' - England is
a part of Britain, like Kansas is a part of the USA) does
have laws that protect the individual from harassement -
you can't just threaten people willy nilly. There are laws
against that. And if someone lies about you in the press
or tv then you have recourse to libel/slander etc. laws.

True, Britain has no 'privacy' laws as such, but isn't that
a good thing? As of this moment, the govt. are considering
a privacy law, but it is unlikely to succeed. Why? Because any
such law would benefit the priviledged and those in power.
Privacy laws, while supposedly protecting the individual, help
those in power hide their mistakes/scandals. They stop the press
etc. investigating. Privacy laws are undemocratic - they prevent
the people from keeping an eye on govt.

And stop looking for some kinda conspiracy in the British
press. It's hardly perfect, but your notion that they don't
cover/campaign against press legislation, harrassment,
discrimination, human rights etc. is plain wrong. You've never
seen a British paper in yr life.

You clearly have a specific case/individual in mind. Speak up!
The thought police aren't coming round just yet.

Douglas.

Date: Mon May 8 19:21:28 1995
Newsgroups: alt.conspiracy
Subject: Re: BBC's Hidden Shame

Confession time - the victim is/was me (except my name isn't

Corley, but that's irrelevant). What happened was not threats; just invasion of privacy, in a partiicularly flagrant and shocking way, in a way which most people would consider to constitute harassment.

You know there's a particular category of person with mental illness to whom TV and radio "talk", ie they feel the broadcast is directed at them in particular? This happpened to me, quite some time ago in the UK (I'm originally from London, so I've seen plenty of British media print and other). They invaded my home with their bugs, they repeated what I was saying in the privacy of my home, and they laughed that it was "so funny", that I was impotent and could not even communicate what was going on. Who did this? Our friends on BBC television, our friends in ITN, last but not least our friends in Capital Radio in London and on Radio 1.

How did they do this? I'll give you an example. About a year ago, I was listening to Chris Tarrant (Capital Radio DJ among other pursuits) on his radio morning show, when he said, talking about someone he didn't identify, "you know this bloke? he says we're trying to kill him. We should be done for attempted manslaughter" which mirrored something I had said a day or two before (I'm not paranoid, honest!). Now that got broadcast to the whole of London - if any recordings are kept of the shows then it'll be there.

328

--
Posted via a free Usenet account from http://www.teranews.com

From 6326836094937739741
X-Google-Thread: 10b159,4bfb4a6306417876,start
X-Google-Thread: fc2a5,4bfb4a6306417876,start
X-Google-Thread: 10dde4,4bfb4a6306417876,start
X-Google-Thread: 108a4b,4bfb4a6306417876,start
X-Google-Thread: f6805,4bfb4a6306417876,start
X-Google-Attributes: gid10b159,gidfc2a5,gid10dde4,gid108a4b,gidf6805,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!zeus.nntpserver.com!10.1.1.50.MISMATCH!not-for-mail
Message-Id: <m07002521233320@4ax.com>
Subject: MI5 Persecution: A doubting Thomas is heard 9/5/95 (1233)
Newsgroups: microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winserver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp
Followup-To: microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winserver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp,uk.misc

From: MI5Victim@mi5.gov.uk
Date: 25 Jan 2007 20:29:11 GMT
Lines: 126
NNTP-Posting-Date: 25 Jan 2007 20:29:11 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com microsoft.public.es.windowsxp:95669
rec.radio.amateur.homebrew:8755 microsoft.public.it.winserver:39000
fr.rec.photo.materiel:10773 microsoft.public.fr.windowsxp:97372

From: pao1@ukc.ac.uk (P.A.Orrock)
Newsgroups: uk.misc
Subject: Re: BBC's Hidden Shame
Reply-To: pao1@ukc.ac.uk (P.A.Orrock)
Date: Tue May 9 05:54:20 1995

>have laws that protect the individual from harassement -
>you can't just threaten people willy nilly. There are laws
>against that. And if someone lies about you in the press
>or tv then you have recourse to libel/slander etc. laws.

Yup, agreed

>True, Britain has no 'privacy' laws as such, but isn't that
>a good thing? As of this moment, the govt. are considering
>a privacy law, but it is unlikely to succeed. Why? Because any
>such law would benefit the priviledged and those in power.
>Privacy laws, while supposedly protecting the individual, help
>those in power hide their mistakes/scandals. They stop the press
>etc. investigating. Privacy laws are undemocratic - they prevent
>the people from keeping an eye on govt.

Agreed again.

>Douglas.

I am slightly confused here as to who is writing what. this just seems to
be an amalgam of posts and replies posted to here to keep the thread going.

>Confession time - the victim is/was me (except my name isn't
>Corley, but that's irrelevant). What happened was not threats;
>just invasion of privacy, in a partiicularly flagrant and
>shocking way, in a way which most people would consider to
>constitute harassment.

>You know there's a particular category of person with mental
>illness to whom TV and radio "talk", ie they feel the broadcast
>is directed at them in particular? This happpened to me,

You mean the category where they think that everyone is after them ? that
one ? So lets get this straight you know you are paranoid and you think
that they are out to get you ? Uh huh, try putting the two together and
see what you come up with.

>quite some time ago in the UK (I'm originally from London
>so I've seen plenty of British media print and other).
>They invaded my home with their bugs, they repeated what I
>was saying in the privacy of my home, and they laughed that it
>was "so funny", that I was impotent and could not even communicate
>what was going on. Who did this? Our friends on BBC television,
>our friends in ITN, last but not least our friends in Capital
>Radio in London and on Radio 1.

Oh yeah, I can see it now. All of them banding together, in a united effort against one man. So ITN, the BBC, and Capital all decide to sit round the table and they come up with idea of breaking into someones house, putting bugs everywhere, listening in to his conversation, and shoving it out on the news everyday. This someone has nothing to do with politics, or business, or entertainment, just an ordinary Joe Bloggs who seems to be extremely paranoid.

Have some sense, grow up and smell reality. What you are talking about would take loads of planning, tens of thousands of pounds and lots of people involved in the planning, execution and maintenance of it. You must have a very high opinion of yourself to think you are worth it.

>How did they do this? I'll give you an example. About a year ago,
>I was listening to Chris Tarrant (Capital Radio DJ among other
>pursuits) on his radio morning show, when he said, talking about
>someone he didn't identify, "you know this bloke? he says we're
>trying to kill him. We should be done for attempted manslaughter"
>which mirrored something I had said a day or two before
>(I'm not paranoid, honest!). Now that got broadcast to the whole
>of London - if any recordings are kept of the shows then it'll be
>there.

Of course you are not paranoid, just slightly mad. Did you ever look for the bugs in your house ? If not, why not ? I mean if I thought that was happening to me, I'd search the place from top to bottom, I mean I live there I would know if anything was out of place. If I was really paranoid, whoops I mean suspicious, I would call in one of those bug detection teams which have those machines that pick up the transmitted radio waves. This reminds me of BUGS, that new programme on BBC1 on saturdays which is all about this kind of stuff, but, shown as a drama / thriller. I suppose thats based on you as well is it ?

>is that there is a conspiracy in Britain, that it encompasses the
>broadcast media, and there is no way of breaking the conspiracy.
>The people who are involved in it will not open up.

What a load of jolly hollyhocks, I would say something else but, apparently students are not allowed to swear on newsgroups in case it damages the reputation of the university or some such jolly hollyhocks.

This guy is extremely paranoid to suggest that the entire British media is after him in such a big way. He gives no real reason as to why they are after him, just that he suffers/suffered from a slight mental disorder, could it be paranoia perhaps ?? No surely not.

I put it to the house that he has never recovered from this mental disorder, lets come out with it and call it paranoia, and thinks everyone is after him. Remember just because you aren't paranoid, doesn't mean they aren't after you.

This guy has a serious problem to suggest that the media would go to such lengths just to single out and ridicule one person. I mean apart from anything else, we (the listening masses) wouldn't be interested unless it concerned the royal family, politicians or showbiz personalities. e.g. the camillagate tapes. I would think that almost everyone, no matter how much they went on about infringements of privacy read the transcripts with interest. I really don't think that Joe Bloggs ordinary guy or paranoid nutter would have the same appeal. Well actually I dunno. :)

Regards,

Paul.

--
Paul Orrock, Websurfer wannabe, http://www.idiscover.co.uk/paul/home.html
PC Consultant and HTML freelance Writer, http://www.idiscover.co.uk/paul/

===

Diplomacy is the art of saying "nice doggy" until you can find a rock.

1233

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Posted via a free Usenet account from http://www.teranews.com

From 1245011695147334255
X-Google-Thread: 10b159,462dbc39c091e47b,start
X-Google-Thread: fc2a5,462dbc39c091e47b,start
X-Google-Thread: 10dde4,462dbc39c091e47b,start
X-Google-Thread: 108a4b,462dbc39c091e47b,start
X-Google-Thread: f6805,462dbc39c091e47b,start
X-Google-Attributes: gid10b159,gidfc2a5,gid10dde4,gid108a4b,gidf6805,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!zeus.nntpserver.com!10.1.1.50.MISMATCH!not-for-mail
Message-Id: <m07002521352655@4ax.com>
Subject: MI5 Persecution: Recognition by Strangers is Normal 12/5/95 (2138)
Newsgroups:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winserver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp
Followup-To:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winserver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp,uk.misc

From: MI5Victim@mi5.gov.uk
Date: 25 Jan 2007 20:41:04 GMT
Lines: 118
NNTP-Posting-Date: 25 Jan 2007 20:41:04 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com microsoft.public.es.windowsxp:95675
rec.radio.amateur.homebrew:8756 microsoft.public.it.winserver:39001
fr.rec.photo.materiel:10774 microsoft.public.fr.windowsxp:97374

From: speedc@cs.man.ac.uk (C Speed)
Newsgroups: uk.misc
Subject: Re: BBC's Hidden Shame
Date: Fri May 12 04:34:26 1995

>Yes, I realize that. But after five years I think I can tell the difference
>between reality and unreality. Look, in the part of London where I used
>to live, I went back there over Easter, and I got recognized walking
>down the street by people I had never seen before. That's happened
>quite a few times and I am at a complete loss to explain it.

That is what happens in big cities. Hell, it scared me to death when I first
started working in Manchester. People keep talking to me on the streets,
even if its just to say hello, and I've no idea who they are. This happens
to most people, don't worry about it.

>>paranoid, whoops I mean suspicious, I would call in one of those bug
>>detection teams which have those machines that pick up the transmitted

>That's exactly what we did. We went to a competent, professional detective
>agency in London, paid them over 400 quid to debug our house. They found
>nothing.

Doesn't this suggest to you that there are, in fact, no bugs to be found?

>Over Easter I went to the police in London, telling them basically
>what I've posted here. I don't think you'll be surprised to learn
>that I didn't get very far; they asked "why would they be doing this to
>you in particular?" and the answer "they are because they are" doesn't
>go very far.

Exactly. All you have offered so far as proof of your harrassment by these
people is:

1) Someone on radio said something that you had recently said

and

2) People on the streets seem to recognise you.

These are both perfectly normal occurences and happen to lots of people every
day so it is unsurprising that people here, and the police, are not taking
you seriously.

Trying to always keep an open mind about things I would say that one of three
things is likely.

Either there is a lot more to this that you are not telling us, or you are messing about or you have some genuine delusions. I'd like to think that in two of the three cases you would find some real support here, but it seems unlikely I'm afraid.

Claire

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******************************************************************************
*  "And though we say all information should be free it is not.              *
*     Information is power and currency of the virtual world we inhabit."    *
******************************************************************************
*  C.Speed  -  <speedc@cs.man.ac.uk>  <http://www.cs.man.ac.uk/~speedc/>      *
******************************************************************************
```

Date: Fri May 12 17:41:49 1995
Newsgroups: uk.misc
Subject: Re: BBC's Hidden Shame

>That is what happens in big cities. Hell, it scared me to death when I first
>started working in Manchester. People keep talking to me on the streets,
>even if its just to say hello, and I've no idea who they are. This happens
>to most people, don't worry about it.

The key is the pattern, or a change in the pattern. I've lived in London almost all my life, and just walking around the streets, I never got hassled by anybody. All of a sudden, people start harassing you, throwing abuse at you, behaving as if they know you personally, as if they've seen you before somewhere. I read in the papers that this happens to Colin Stagg and people like that Eastenders actress, but they've had their picture in the paperes, so that is understandable. In a couple of cases people have even known my name - when I was in London over Easter I was walking down Shaftesbury avenue in the West End when somebody (no idea who they were, just some bloke with his girlfriend) called me by name - quite clearly, and my name is distinctive. This also happened once about four 1/2 years ago, onn the tube - some blokes I had never seen started chanting my name and a term of abuse.

It's the pattern which convinces me there's something to it - and would convince any impartial absever who could see things tyhrough my eyes.

>Doesn't this suggest to you that there are, in fact, no bugs to be found?

There's a little story behjjind this. First iof all, in 1992 I worked for a company where the people made clear they knew what was going on, first of all directly (the very first evening I was there I went out to the pub with them and the Technical Directpor said to another guy, "is this the bloke who's been on TV?" "yeah, I think so") and also

indirectly, by rep[peating stuff I was saying at home in London and
in my rented accomodation there (I moved several times in the course of
1992 and they followed me each time). Now, if "they" (the buggers)
knew their bugs could be found easily, they wouldn;'t be keen to make
their existence known, would they?

Also, in summer 1992 I went on a trip abroad to Europe by coach, and
on the way out there were a couple a little younger than myself on the coach
a bloke and hius girlfriend. He said things about some bloke who was
never named, who sounded exactly like me - and he made explicitly
clear that our house was bugged, and that a neighrbours house was
bugged (and at work they'd been rep[earting what was said at the
neighbours, so this looks like independent corroboration).
They also said stuff like "at school he was always really streesed,
they found someone from his school and he was a real psycho"
and that "he was in a B&B for one night and they got him", dead right
again, I had been in B&B for once night a few days before this trip
and weatching the news again got a reaction from the newsreader.

2138

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Posted via a free Usenet account from http://www.teranews.com

```
From -4137054782350877438
X-Google-Thread: 10b159,1831b9e14d05c6a1,start
X-Google-Thread: fc2a5,1831b9e14d05c6a1,start
X-Google-Thread: 10dde4,1831b9e14d05c6a1,start
X-Google-Thread: 108a4b,1831b9e14d05c6a1,start
X-Google-Thread: f6805,1831b9e14d05c6a1,start
X-Google-Attributes: gid10b159,gidfc2a5,gid10dde4,gid108a4b,gidf6805,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!
199.218.7.141!news.glorb.com!nntpserver.com!zeus.nntpserver.com!
10.1.1.50.MISMATCH!not-for-mail
Message-Id: <m07002521471053@4ax.com>
Subject: MI5 Persecution: Truth or Troll? 13/5/95 (3043)
Newsgroups:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp
Followup-To:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 25 Jan 2007 20:52:48 GMT
Lines: 147
NNTP-Posting-Date: 25 Jan 2007 20:52:48 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com microsoft.public.es.windowsxp:95679
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Date: Sat May 13 21:41:57 1995
Newsgroups: rec.arts.tv.uk
Subject: Re: BBC's Hidden Shame

>:some pirate radio station in London in 1991, started listening to
>
>Conclusive proof if ever I heard it.
>
>Of course you were the only person in the office in the whole of Britain

Yeah, but this is the point. Each incident is easily and automatically deniable along the lines you're taking. But when this happens every time, and when you get independent corroboration from other people, then there's no escaping it. For example, immediately after I lost my job in 91 I went into the local garage to get some work done on the car, and one of the blokes there said to the other, "so what do you think of it then? it's getting killed on the radio isn't it"
Now again, you look at that and no proff; you can ask them what they're referring to and they can say they're talking about something else.

>I know you may be a little paranoid, but I suggest you sit down
>and work out rationally what possible reason anyone off television,
>or radio would have for listening to your conversations. After all
>it must be hard enough to present a show to millions of people
>without the added burden of watching and listening to a single
>person and slipping their phrases into the programme.

These presenters are clever people. They wouldn't be presenters if they weren't - they're easily capable of reacting to an individual in this way.

What possible reason? I guess because they think it's amusing to do so. They know that if you ever tell anybody, without being able to show any evidence, then the reaction you'll get from just about anybody will be the one you're showing now.

I realize there are loads of people in England and elsewhere with the sort of thoughts I've described in these postings; and almost all impartial observers would say that nothing other than an
go after their private conversations (if they did it to me then I can do it to them, it's a questions of technical competence and money). If you were lucky, you might be able to entrap them into admission. You could of course harass or threaten them back (any coppers reading this?) but that would be illegal and might get a result quite different to the one you're trying to achieve. Of course, it might come out of its own accord given time - if so many people know, if they have an escape valve in their "subtext" through the media, will it not cease to be at a covert level, given time? Surely it is in my interest for it to become overt, since the transgressions at this time are on their side and not on mine?

Thoughts? There must be some way of breaking the secrecy. This isn't the first time in human history that a conspiracy has taken place on this scale, but the truth tends to out. The situation now is they think they';re "winning" hence have little stimulus to change the rules - if they started seeing themselves "losing" things could change drastically.

===

From: amh15@cus.cam.ac.uk (Alan Hart)
Newsgroups: uk.misc
Subject: Re: BBC's Hidden Shame
Date: Sun May 14 09:59:54 1995

: Thoughts? There must be some way of breaking the secrecy. This
: isn't the first time in human history that a conspiracy has taken
: place on this scale, but the truth tends to out. The situation
: now is they think they';re "winning" hence have little stimulus
: to change the rules - if they started seeing themselves "losing"
: things could change drastically.

Mike, if that is your name,

I'm going to try to rationalise what you're telling us. I can think of three possible explanations for what you are experiencing.

One is that there _is_ a conspiracy against you. As a previous writer said, though, a lot of these programmes are taped, so it really isn't possible in some of the cases you've named. Further, why were no bugs found in your house? Finally, unless you are a political figure or someone else in the public eye, why would anyone bother? People like me (and I assume you) are small fry; our contribution to society is likely to be minor. Why would anyone spend so much money and effort on you?

Another possibility is that you are developing some kind of paranoia. There's no stigma attached to this; we're all paranoid to some extent, although perhaps not to the extent that a doctor would call us paranoid. I think paranoia is quite a straightforward explanation here - you really do believe that all these things are aimed at you; you see people everywhere trying to get at you. Logic suggests that this cannot really be the case.

The third possibility is that not even you really believe any of this, and that this is a "troll". I'm not sure I believe this possibility, but it's possible.

Anyway, if you want to be sure that you're _not_ going mad, I'd go and see your G.P. if I were you. If you don't trust him/her, why not see someone recommended by a person you can trust? If you don't trust anyone any more, don't you think it's time you got help?

Alan

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Alan Hart - amh15@cam.ac.uk - Cambridge University, UK - +44 1223 515460
 "How many letters are there in the alphabet - is it 27?" - J.R. Histed
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From: Ian Preece <ianp@dktower.demon.co.uk>
Newsgroups: uk.misc
Subject: Re: BBC's Hidden Shame
Reply-To: ianp@dktower.demon.co.uk
Date: Sun May 14 14:58:08 1995

In article <3p52cq$rsl@lyra.csx.cam.ac.uk>
amh15@cus.cam.ac.uk "Alan Hart" writes:

> The third possibility is that not even you really believe any of this, and
> that this is a "troll". I'm not sure I believe this possibility, but it's
> possible.

For a troll, the posts are remarkably well-informed on paranoid behaviour.. you'd need to be one, or be reasonably well-informed on the subject to sustain the tale... which lead me to my theory...*ahem*...:

An extension to possibility 3 (Number 3.5, perhaps?) is that the original poster may be somehting like a psychology student writing a term paper on the net community's reactions to this tale. (Now, there's paranoia for you! Not only are they listening to/watching us, they're writing reports about us too...:-)

More likely, though, is that the poster is genuinely in need of professional help (he has intimated as much, himself) and, as such, he should be encouraged to seek it.

regards,
IanP

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-----------------------------------------------------
Ian Preece                 ianp@dktower.demon.co.uk

IT Project Specialist      Ideas for Hire
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3043

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Posted via a free Usenet account from http://www.teranews.com

From -5956396326200376012
X-Google-Thread: 10b159,1e145ec1d89c072a,start
X-Google-Thread: fc2a5,1e145ec1d89c072a,start

```
X-Google-Thread: 10dde4,1e145ec1d89c072a,start
X-Google-Thread: 108a4b,1e145ec1d89c072a,start
X-Google-Thread: f6805,1e145ec1d89c072a,start
X-Google-Attributes: gid10b159,gidfc2a5,gid10dde4,gid108a4b,gidf6805,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.50.MISMATCH!not-for-mail
Message-Id: <m07002521593736@4ax.com>
Subject: MI5 Persecution: Let it go 1/8/95 (3948)
Newsgroups:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp
Followup-To:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 25 Jan 2007 21:05:14 GMT
Lines: 189
NNTP-Posting-Date: 25 Jan 2007 21:05:14 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com microsoft.public.es.windowsxp:95680
rec.radio.amateur.homebrew:8758 microsoft.public.it.winserver:39004
fr.rec.photo.materiel:10778 microsoft.public.fr.windowsxp:97378
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From: speedc@cs.man.ac.uk (C Speed)
Newsgroups: uk.misc
Date: Tue Aug 1 10:23:46 1995

>OK, so instead of my posting the same tedious stuff every day,
>why don't you actually read the contents, and make a meaningful
>reply? Something more constructive than those silly little
>jokes about paranoia perhaps? Like what objectively can you do
>to break the conspiracy open, if one exists :-) ? If somebody
>did it to you, what would you do?

But we've *done* that. I certainly have at least. Way back when you originally started posting and your posts were neither tediously repetitve nor stupidly long.

But whenever anyone makes any good suggestions you ignore them and start posting from the begining again. You don't want us to help you - so what do you want? If you really wanted help you would listen to peoples suggestions and respond to them. Is this just an attention thing?
But I'll try again, because I'm a fool like that.

>o   Tell people about it, go to the police / legal services
>   Done that; those around me either don't believe me, or they
>"sort of" believe but can't do anything about it. As for going
>to the police; I did, over Easter. Discouraging. They must be
>familiar with the occasional person walking into a station with
>this sort of story. "If a psychiatrist says you're imagining
>it, then that's what it is".

You haven't yet given any examples of anything concrete to suggest that this is really happening to you. This, I would imagine, will be the stumbling block for the police. How can they possibly help you when your only evidence is a jumbled mess of TV presenters saying things that could be construed as answers to your comments and the 'feeling' that people are talking about you and watching you?

I seem to recall that last time this was being discussed someone asked if you had been to see a psychiatrist about this - after all if this is really happening then you have can only benefit from being given a clean bill of health. I don't recall an answer.

>   I also went to a firm of solicitors; again, very discouraging. Put bluntly, they can't deal with cases where the perpetrators aren't well-defined and the existence of the crime itself is unprovable.

Well how could they? Who would you sue? The country?

>o   so if that option is out, what's left? well, there's the "do nothing" option. To some extent this option works. They've spent a lot of money and ultimately achieved nothing except to force me out of the country - which has been an own goal for them, since now they can't do what they were doing in the UK. Expenditure of further resources would feed the pockets of their greedy contractors, but is a waste of money as far as the employing organization is concerned.

So you are no longer in the uk? And this is not happening anymore?

Then let it go. Just leave it alone and get on with your life. Its just not worth it. There is nothing you can do to prove that this happened whether it did or did not. So forget it. Go and explore the net - when people aren't spamming it with useless repetitve posts there's a lot of interesting and worthwhile things out there to see and do. Likewise real life (I'm told *&).

>completely conventional, I have a good academic and work record. Until all this started, I had no mental health problems; the diagnosis of illness was only after 2 1/2 years of abuse. If they did this to me, they could do this to absolutely any British citizen. If this stuff gets out, it won't be me that has to worry - it'll be them. They take a normal person, lie about him, demonise him, try to force him into killing himself - and this is in a country where the rule of law applies?

If this gets out then *that* will be the time to bring your claims to the foreground.

The only thing ruining your life right now is you, Mike. And the only thing that will make your life any better now is also you. So go and make your life better and show them that they failed.

Claire

```
******************************************************************************
*  "And though we say all information should be free it is not.              *
*     Information is power and currency of the virtual world we inhabit."    *
******************************************************************************
*  C.Speed  -  <speedc@cs.man.ac.uk>  <http://www.cs.man.ac.uk/~speedc/>      *
******************************************************************************

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>But we've *done* that. I certainly have at least. Way back when you
>originally started posting and your posts were neither tediously repetitve
>nor stupidly long.

Once again we're running into a brick wall. The reason I started posting was because I couldn't figure out a way out of the situation, and thought that saying it out into the open would provide a catalyst for one of those "in the know" (there are plenty in this category, and it's a fair bet that some of them are reading this) to speak up.

It hasn't worked, yet. A little more aggressive shit-stirring (excuse expletive) might do the trick. Perhaps Usenet posting is the wrong arena for this sort of activity; although obviously it does have the advantage of rapid feedback.

Thing is, for people to open up, you would have to provide them with a reason why it would be in their interest to do so. There's no obvious way of doing that; to get thinking people to incriminate themselves when they're safe in denying all knowledge is not a trick I can figure out how to do.

>But whenever anyone makes any good suggestions you ignore them and start
>posting from the begining again. You don't want us to help you - so what do
>you want? If you really wanted help you would listen to peoples suggestions
>and respond to them. Is this just an attention thing?
>But I'll try again, because I'm a fool like that.

A "good" suggestion would be one which had the effect of halting the persecution, which so far hasn't happened. If you make a "good" suggestion then damn right I'll stop posting - because then I won't have to.

>You haven't yet given any examples of anything concrete to suggest that this
>is really happening to you. This, I would imagine, will be the stumbling
>block for the police. How can they possibly help you when your only evidence
>is a jumbled mess of TV presenters saying things that could be construed as
>answers to your comments and the 'feeling' that people are talking about you
>and watching you?

Because, as said previously, concrete proof does not exist. If it existed then I wouldn't be talking to you - if it could be proved, or if those doing it could be found, they wouldn't be able to continue.

What's happened is all conversation. You can't prove conversation, not without a tape recorder, and even then you would have to prove that what they meant corresponded to what you understood.

The psychopath who manages the Applics group at my previous employers played little word games, not only with me but with at least one other person in the group; words which rhyme with swear words, words which are ambiguous, eg "bent", words which rhyme with wank, "sheet" rhymes with shit, end (how was your weak end? being the standard salutation on a Monday morning). Sounds childish, most people would easily tell him to fuck off; except to people with predisposition to depression and the inability to express themselves (this was before I started taking medication), that sort of nastiness is not bearable. After ten months of this I was so ill I was crying constantly, eventually I went into hospital and started on medication. Somebody else he did this to (over a year later!) got so depressed he took an overdose of pills, had to go on antidepressants and left.

And where does the "concrete proof" of this trouble exist? NOWHERE. Even if you had physical evidence, even if you had the presence of mind to record what was said, how could you prove what he actually meant by what he was saying? In some cases of harassment you can prove what was done, because it's undeniable. But when the harassment is done with any presence of mind whatsoever, it becomes difficult. In the case of the wider harassment, the people doing it obviously know what they're about - they must have done similar things to other people before in one form or another, and they know what they can get away with, they know what the police will do nothing about.

>I seem to recall that last time this was being discussed someone asked if you
>had been to see a psychiatrist about this - after all if this is really
>happening then you have can only benefit from being given a clean bill of
>health. I don't recall an answer.

Yes. The reply was of the "neither confirm nor deny" variety. Not much else they can say, is there?

>Well how could they? Who would you sue? The country?

Hmmm, now there's a thought... :-)

>If this gets out then *that* will be the time to bring your claims to the
>foreground.

Wrong way round. It won't get out unless I do something to bring that about; remember, it isn't in THEIR interest for THEIR criminality to be exposed. Yelling loudly on Usenet might nudge things along in the right direction.

>The only thing ruining your life right now is you, Mike. And the only thing
>that will make your life any better now is also you. So go and make your
>life better and show them that they failed.

Ignoring them would be bliss, but it's not a winning strategy.

There are going to be more of these posts. Sorry. That's the way it is.

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Posted via a free Usenet account from http://www.teranews.com

From 7056203300411926895
X-Google-Thread: 10b159,f83ddebfa673c2f7,start
X-Google-Thread: fc2a5,f83ddebfa673c2f7,start
X-Google-Thread: 10dde4,f83ddebfa673c2f7,start
X-Google-Thread: 108a4b,f83ddebfa673c2f7,start
X-Google-Thread: f6805,f83ddebfa673c2f7,start
X-Google-Attributes: gid10b159,gidfc2a5,gid10dde4,gid108a4b,gidf6805,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news4.google.com!news3.google.com!news.glorb.com!
nntpserver.com!zeus.nntpserver.com!10.1.1.50.MISMATCH!not-for-mail
Message-Id: <m07002522122319@4ax.com>
Subject: MI5 Persecution: But why? 2/8/95 (4853)
Newsgroups:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp
Followup-To:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 25 Jan 2007 21:18:01 GMT
Lines: 293
NNTP-Posting-Date: 25 Jan 2007 21:18:01 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com microsoft.public.es.windowsxp:95684
rec.radio.amateur.homebrew:8759 microsoft.public.it.winserver:39005
fr.rec.photo.materiel:10779 microsoft.public.fr.windowsxp:97379

>Very unstructured, no proof whatsoever. So why should anyone
>take it seriously? If I said to you, "my next door neighbour eats
>babies", how much credibility would you attach to that?

Well, cos it's true. I was hoping that someone "in the know" would
appear and make some self-revealing comments, but that hasn't
happened. Everyone's keeping quiet. What a pity.

>>This is an agglomeration of articles and replies previously
>>posted to Usenet, so it's a bit hard to read. This posting
>>describes a campaign of character assassination initiated

>Who's character is being assassinated? It isn't clear from the post.
>Are we talking about Grenville Janner? I thought he was a spook
>himself? He's certainly able to hold his own on the issue you cite.

Mine, mainly. The reason for putting that episode at the top
of the posting is that they tried to kill two birds with one stone
at the Beck trial - they simultaneously put words into the mouth

of their invented "witness" to smear Janner, and repeated exactly, word-for-word, stuff which had been said by and about me.

That was the only occasion (the only one recognizable to me, anyway) when they went after another target at the same time. And it's quite lucky they did that - because it could give some pointers to who they might be.

Presumably there are people still around who were involved in that trial, and know what happened. Beck might be dead, but the "witness" would still be around, as would Beck's solicitor.

>>by a group of people or agency within the UK. Although
>>they have never presented their identity, you can draw
>>your own conclusions on that point. There aren't many
>>people with the technical resources and contacts in
>>society to make feasible the sort of deliberate attack
>>on an individual which is described in this article.
>
>There aren't _any_ as far as I am aware.

I'm afraid there are.

>>The most disturbing part of the whole episode is the
>>participation of British institutions and their members, fully
>>comprehending what they do, in what is an act of attempted
>>murder against a British citizen.
>
>The whole society, in fact. From the top to the bottom. They
>wouldn't be trying to tell you to kill yourself by any chance,
>would they?

You got it. I'm a popular guy.

>>After the trial Janner said that "now he knew what it felt like
>>to be a victim of Beck's"; but, it wasn't Beck who set up the
>>attempted character assassination on Janner; the fact that they
>>took a side-swipe with their verbatim repetition shows
>>where the real source is to be found.
>
>The newspapers?

Well, your guess is as good as mine. But what newspaper would send a team after someone for five years? I don't think so, somehow. Of course they could, but it wouldn't be in their commercial interest.

You'd have to look at a corporate entity which would indulge in activity of this type, and the nature of the contacts they have narrows down the search.

>>The goons behind the molestation are lower than the paedophiles
>>they use to convey their propaganda - they use the same

>>strategy of covert abuse, but there is nobody to check their
>>actions, or to bring these criminals to justice.
>
>Ummm.. Janner is a Barrister, a journalist who writes on a wide
>variety of issues, and a long-standing Labour MP. If he's unjustly
>smeared, he's more that capable of setting the record straight.

Janner blamed Beck for the invention. He didn't say anything about
it having any other origin. Even had he suspected any other source,
he could hardly have pointed the finger without some evidence.

>You say that the media is making similar allegations about you in
>relation to this issue? So, you're accused of child abuse, amd
>the allegation was reported in the media, I assume.

I've been accused of many things although that wasn't one of them.
Most of them have been yelled in my face by people on the street
in London at some time or other. Bit difficult to misinterpret
when that happens.

>What exact;y are they saying about you? (Respond here please. I'm
>leaving the UK tomorrow, so I can't read e-mail.)

It changes with time. Every so often, they sing a new song;
so at one point the allegation was homosexuality, at another
is was low intelligence, then it degenerated into sexual abuse.

<snip>

>>They invaded my home with their bugs, they repeated what I
>>was saying in the privacy of my home, and they laughed that it
>>was "so funny", that I was impotent and could not even communicate
>>what was going on. Who did this? Our friends on BBC television,
>>our friends in ITN, last but not least our friends in Capital
>>Radio in London and on Radio 1.
>
>How do you know this? Just from what you hear on the radio?

I can't remember if this was mentioned in the "regular" posting,
but on a few occasions they set me up with people nearby to talk
about me, or more correctly, to talk about somebody who
(in their minds) "resembles" me, with actually naming me.

One such occasion was a coach trip to Europe in June 1992.
The "set up" comprised a guy talking to a vacant giggling female
about "this bloke", who was never named. Apparently "they"
(also never named) "found somebody from his school",
"they" "got" him at his house and at a neighbours, and at
a B&B where their target was for one night.

Apart from that, yeah, from "what I hear on the radio". And
from what I see on TV. (I wouldn't be doing my job as a
mentally ill person properly if the TV and radio weren't

talking to me, now, would I?)

>>Oh yeah, I can see it now. All of them banding together, in a united
>>effort against one man. So ITN, the BBC, and Capital all decide to sit
>>round the table and they come up with idea of breaking into someones
>>house, putting bugs everywhere, listening in to his conversation, and
>>shoving it out on the news everyday.
>
>But why would they do this? What possible reason would they have?

But why get at anybody? Victimisation is the pastime practised against
other people; as the scorpion said to the frog, "it's in my nature".

>Are you aware that what you describe is also a common symptom of people
>who are suffering from a psychiatric illness? Have you been to your
>doctor and told him about this? Did he prescribe any medication? Have
>you been taking it, or have you stopped?

Yes, Yes, and Yes respectively. Still taking it. Doing quite well actually.

>>This someone has nothing to do with
>>politics, or business, or entertainment, just an ordinary Joe Bloggs who
>>seems to be extremely paranoid.
>
>Usually a clinical symptom rather than proof of a conspiracy in such
>matters.

>>How did they do this? I'll give you an example. About a year ago,
>>I was listening to Chris Tarrant (Capital Radio DJ among other
>>pursuits) on his radio morning show, when he said, talking about
>>someone he didn't identify, "you know this bloke? he says we're
>>trying to kill him. We should be done for attempted manslaughter"
>>which mirrored something I had said a day or two before.
>>Now that got broadcast to the whole of London - if any recordings
>>are kept of the shows then it'll be there.
>
>And this is supposed to mean... what? Chris Tarrant is in on this plot
>to kill you? It sure sounds like a joke to me. When you start to get
>ill, the mind often makes connections that seem logical and lucid to
>you, but do not to the rest of the world. This is one of those connections.
>They are usually known as delusions.

This is the problem, and there doesn't seem to be any way around it.
If a clearly sane person reported this persecution, you might believe
him, but probably you'd tell him to go see a doctor to "verify his
sanity". If someone with the illness of which you could argue these
things to be symptomatic says these things, again, you might believe
him, but it would be unlikely - the easiest route is the one you are
taking in the above paragraph. The only way I can convince you of what
I am saying is by giving precise details of what, when, how - and for
most of that stuff is based solely on memory.

To prove it would require an admission from somebody, or else hard

proof in the shape of physical evidence such as tape recordings.
Of course, I don't have that.

>The idea of a "pattern", and the notion that if anyone could look
>through your eyes they would see the same thing is very indicative of
>the onset of a psychiatric illness. Schizophrenia and manic depression
>have similar symptoms. I'm not trying to be disrespectful here.
>This may be an illness and it can be managed by the use of medication.
>If it _isn't_ treated, it can lead to terrible tragic consequences.

I'm quite aware what the symptoms would be, and that the reality
corresponds to those symptoms.

But if anything, that is an argument which could convince you of
the truth of what I'm saying. If they deliberately set out to
simulate the symptoms of schizophrenia - in other words, if they
know through observation that their target is either suffering
from the illness, or is on the borderline and could be pushed in
with an appropriate stimulus, then they can feel safe in what
they do, since once you are registered as suffering from the
illness, people will assign less credibility to assertions that
persecution is based in reality.

That this can happen, and people collude by silence, is absolutely
horrifying. It is all the more horrifying that it can happen in a
country such as Britain which has no history of repression.
Perhaps its happening in the UK is due to the arrogant assumption
of moral superiority on the part of those in the media and others
involved - we won the last war and we can keep harping on about
German and Japanese war crimes, so we can do whatever we like and
we'll be right, up to and including destroying the lives of our
citizens (as long as we're not caught doing it).

>>That is the level it's at - basically they show they're listening
>>to what you're saying at home, they show they're listening to you
>>listening to them
>
>But why? And why you? Do you realize how much it would cost to keep
>one person under continuous surveillance for five years? Think about
>all the man/hours. Say they _just_ allocated a two man team and a
>supervisor. OK., Supervisor's salary, say, �30,000 a year. Two men,
>�20,000 a year each. But they'd need to work in shifts -- so it would
>be six men at �20,000 (which with on-costs would work out at more like
>�30,000 to the employer.)
>
>So, we're talking �30,000 x 6. �180,000. plus say, �40,000 for the
>supervisor. �220,000. Then you've got the hardware involved. And
>any transcription that needs doing. You don't think the 'Big Boss'
>would listen to hours and hours of tapes, do you.
>
>So, all in all, you couldn't actually do the job for much less than
>a quarter million a year. Over five years. What are you doing that makes
>it worth the while of the state to spend over one and a quarter million

>on you?

Those are pretty much the sort of calculations that went through my head once I stopped to consider what it must be costing them to run this little operation.

The partial answer is, there have been periods when the intensity has been greater, and times when little has happened. In fact, for much of 1993 and the first half of 1994, very little happened. Although I don't think that was for reasons of money - if they can tap into the taxpayer they're not going to be short of resources, are they?

The more complete answer is in the enormity of what they're doing. When countries kill their own people, as a rule, they get found out and all hell breaks loose. This isn't some para shooting Irish teenagers in the back. This is something which permeates English society, which they are ALL responsible for, and which they cannot escape responsibility for.

Relative to the cost to British pride of seeing their country humiliated for the persecution of their own defenceless citizens, isn't is worth the cost of four or five people to try to bring things to a close in the manner they would wish? To the government a million or two is quite honestly nothing - if they can convince themselves of the necessity of what they're doing, money is not going to be the limiting factor.

>>What possible reason? I guess because they think it's amusing to do
>>so.
>
>What? Spend a quarter mil. a year to amuse themselves? And why not
>change every now and again? Why keep watching you? (Unless you _are_
>doing something, and I don't think you are, though you may have some
>deep, dark secret in your past.)

See the above.

===

>>I'm going to try to rationalise what you're telling us. I can think of three
>>possible explanations for what you are experiencing.

>>Another possibility is that you are developing some kind of paranoia. There's
>>no stigma attached to this; we're all paranoid to some extent, although
>>perhaps not to the extent that a doctor would call us paranoid. I think
>>paranoia is quite a straightforward explanation here - you really do believe
>>that all these things are aimed at you; you see people everywhere trying to
>>get at you. Logic suggests that this cannot really be the case.

>I think the evidence leans towards this explanation myself. Why not
>try soc.support.depression and see what some of the people there have
>to say about this? Just to get some more perspective on your perspective,
>so to speak?

Sure, it "leans" towards it. But please at least admit there is a POSSIBILITY of it being very real. And once you've done that, can you come up with some thoughts on methods of proof? I may be missing something in my assessment - there may be a way of proving it, in the face of non-cooperation from the "players".

4853

--
Posted via a free Usenet account from http://www.teranews.com

From 8599269772983289822
X-Google-Thread: 10b159,b01574b38284be7a,start
X-Google-Thread: fc2a5,b01574b38284be7a,start
X-Google-Thread: 10dde4,b01574b38284be7a,start
X-Google-Thread: 108a4b,b01574b38284be7a,start
X-Google-Thread: f6805,b01574b38284be7a,start
X-Google-Attributes: gid10b159,gidfc2a5,gid10dde4,gid108a4b,gidf6805,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!nntpserver.com!zeus.nntpserver.com!10.1.1.50.MISMATCH!not-for-mail
Message-Id: <m07002522241313@4ax.com>
Subject: MI5 Persecution: Surveillance methods 5/8/95 (5758)
Newsgroups:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winserver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp
Followup-To:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winserver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 25 Jan 2007 21:29:51 GMT
Lines: 78
NNTP-Posting-Date: 25 Jan 2007 21:29:51 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com microsoft.public.es.windowsxp:95685 rec.radio.amateur.homebrew:8760 microsoft.public.it.winserver:39006 fr.rec.photo.materiel:10780 microsoft.public.fr.windowsxp:97380

From: Pamela Willoughby <pjw31@willouby.demon.co.uk>
Newsgroups: uk.misc
Date: Sat, 05 Aug 1995 18:08:32 GMT
Organization: Myorganisation
Lines: 15
Message-ID: <142297143wnr@willouby.demon.co.uk>

>Hmmm, strange eh.
>I mentioned all this goings on to my boyfriend, who works for the
>British intelligence service, and he assures me this sort of thing
>never goes on.. not ever...honest.

>Though he said the name was familiar...

it does go on, although it's an open question who does it.

Some time ago there were press reports of an Army intelligence person called Jones who claimed Diana and Hewitt had been photographed in a compromising position... he said he'd been doing this as part of an Army unit which had previously operated in Northern Ireland.

Then Hewitt said he'd been told the same thing by some Army people, and that they were threatening to release the tapes unless they curtailed their liaison... as per usual everyone denied everything, painted Jones as the "Jones twins" - not very original in how they deal with their perceived enemies, are they?

You have to wonder how they manage to achieve this sort of surveillance though. Audio you can understand, it's possible to put a microphone through the wall, and apparently there exist devices which will retrieve sound from a laser beam bounced off a window - sounds sci-fi, but there's a well known surveillance electronics company in London which sells these things.

But how would you get video out of a room, unless you had actual physical access in order to plant a device for pickup? We're not talking about looking in from afar, but an actual device within the room. You could either drill through the wall and shove a pickup through; or you could supply a trojan device with a hidden pickup inside; but most likely, you would have to physically break into your target room to plant a camera. That's not an infeasible option; all it means is having your target(s) watched to make sure they're not in the vicinity, then you negotiate any locks on the property and find a suitable receptacle for your device.

The next question is how they defeat the usual methods of counter-surveillance. We had private detectives carry out a "sweep" of every room and the telephone line. They found nothing. That indicates at least four possibilities that I can think of; (this is all guesswork BTW, and probably fanciful guesswork at that!)

1) no bugs (pull the other one)

2) radio-transmitting devices which can be controlled from an external source, ie you can instruct them to switch off when you detect a counter-surveillance sweep taking place

3) hard-wired devices; probe microphones or whatever they're called, things you poke through the wall

4) passive surveillance devices; so you bounce laser or radio waves off a suitable reflecting surface (again, sounds far-fetched but such things may apparently exist).

5) there is a fifth possibility, that the PI's didn't detect
an actual transmitting device; there are technologies
specifically designed to avoid detection, eg frequency hopping
and suchlike. But how much sophistication could you build in
to a device which would have to be small enough to be
physically concealable?

I guess the real question is to find out who is ultimately behind these "goings on". And if the "great and good" (or the better known, at any rate) can't protect themselves, what hope is there for the rest of us?

5758

--
Posted via a free Usenet account from http://www.teranews.com

```
From -1200187766386232622
X-Google-Thread: fc2a5,f8c02bb3cb078495,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s48g2000cws.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Kenwood Base Station schematic
Date: 25 Jan 2007 17:05:24 -0800
Organization: http://groups.google.com
Lines: 13
Message-ID: <1169773524.198440.121750@s48g2000cws.googlegroups.com>
NNTP-Posting-Host: 66.19.112.160
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1169773540 2028 127.0.0.1 (26 Jan 2007 01:05:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Jan 2007 01:05:40 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s48g2000cws.googlegroups.com; posting-host=66.19.112.160;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:8761
```

Andy writes

Does anyone know where I can get a (free) schematic of a Kenwood ST-1 base station which is built to hold a TR2400 handi talkie....???

It contains a charger for the TR2400 and I'd like to have a copy of the schematic lying around in case it stops working someday..

Thanks in advance for any good advice,

Andy W4OAH in Eureka, Texas

From 6578130815960882526
X-Google-Thread: fc2a5,43906642a86de17a,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a75g2000cwd.googlegroups.com!not-for-mail
From: eternalsquire@comcast.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Where does part 97 end and part 15 begin?
Date: 25 Jan 2007 18:23:30 -0800
Organization: http://groups.google.com
Lines: 40
Message-ID: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
NNTP-Posting-Host: 67.142.130.14
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1169778221 13185 127.0.0.1 (26 Jan 2007 02:23:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Jan 2007 02:23:41 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a75g2000cwd.googlegroups.com; posting-host=67.142.130.14;
   posting-account=RyqjfwwAAADvOapQHMNoJI3nvO5uDrpo
Xref: g2news2.google.com rec.radio.amateur.homebrew:8762

All,

I have a situation, and would like some opinions rather than flames on how to handle it.   My wife teaches at a public school just off the Easter Arizona Navajo reservation.   Lately, a junior school science teacher is starting up a science club and has asked me to provide for the amateur radio side of the club and be its control operator.

She believes that the kids would be fascinated by the Morse code - Dxing - Construction end of the hobby, even though Morse is no longer a required test element.

The kids are mostly Navajo and thusly have a very limited technological background (hence the reason for the club to stir the interest), so I need something concrete with immediate payoff to keep their interest hooked while getting them as ready as I can to write their Technician exam. The nearest VEC is 4 hours away and I'd rather have as few fail as possible.

I had thought to start an unlicensed micro-power code practice net whose range would be limited to about a 30 mile radius, which is about the size of the local reservation right next to the school.

What I want to do is provide each kid with a popcorn CW transceiver for the colorburst frequency (3579 khz), a key, a short random wire, and a battery. That way they could practice amongst themselves with myself as occasional net control.

My question is this: so long as final output to the antenna is within the requirement of part 15 unlicensed operation, is part 15 unlicensed operation allowed within a band normally governed under part 97?
Part 15 operation would easily cover a 30 mile radius on 80M.

If no, I'll run the net under part 15 on the edge of the AM band near 160M.

Thanks in advance,

The Eternal Squire

```
From -6469643820464594106
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc03.POSTED!24dd0da6!
not-for-mail
Sender: Jim Pennino <jimp@mail.specsol.com>
Message-ID: <tl5o84-fgq.ln1@mail.specsol.com>
From: jimp@specsol.spam.sux.com
Subject: Re: Where does part 97 end and part 15 begin?
Newsgroups: rec.radio.amateur.homebrew
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
User-Agent: tin/1.8.1-20060215 ("Mealasta") (UNIX) (SunOS/5.9 (sun4u))
Lines: 48
Date: Fri, 26 Jan 2007 02:35:02 GMT
NNTP-Posting-Host: 71.118.11.57
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc03 1169778902 71.118.11.57 (Thu, 25 Jan 2007 21:35:02 EST)
NNTP-Posting-Date: Thu, 25 Jan 2007 21:35:02 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8763
```

eternalsquire@comcast.net wrote:
> All,

> I have a situation, and would like some opinions rather than flames on
> how to handle it. My wife teaches at a public school just off the

> Easter Arizona Navajo reservation.   Lately, a junior school science
> teacher is starting up a science club and has asked me to provide for
> the amateur radio side of the club and be its control operator.

> She believes that the kids would be fascinated by the Morse code -
> Dxing - Construction end of the hobby, even though Morse is no longer a
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> background (hence the reason for the club to stir the interest), so I
> need something concrete with immediate payoff to keep their interest
> hooked while getting them as ready as I can to write their Technician
> exam. The nearest VEC is 4 hours away and I'd rather have as few fail
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> battery.   That way they could practice amongst themselves with
> myself as occasional net control.

> My question is this: so long as final output to the antenna is within
> the requirement of part 15 unlicensed operation, is part 15 unlicensed
> operation allowed within a band normally governed under part 97?
> Part 15 operation would easily cover a 30 mile radius on 80M.

> If no, I'll run the net under part 15 on the edge of the AM band near
> 160M.

> Thanks in advance,

> The Eternal Squire

Wouldn't it be easier to just read part 15 rather than starting what
is bound to be a major flame war between the barracks lawyers?

--
Jim Pennino

Remove .spam.sux to reply.

From 1725013791293339967
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!newsfeed01.sul.t-online.de!newsfeed00.sul.t-online.de!t-online.de!tiscali!newsfeed1.ip.tiscali.net!proxad.net!exabot.com!freenix!sn-xt-sjc-04!sn-xt-sjc-10!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail

From: Lawrence Statton XE2/N1GAK <yankeeinexile@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 25 Jan 2007 21:01:56 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <878xfqjxsr.fsf@gmail.com>
Sender: lawrence@hummer
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
User-Agent: Gnus/5.09 (Gnus v5.9.0) Emacs/21.1
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
X-Complaints-To: abuse@supernews.com
Lines: 42
Xref: g2news2.google.com rec.radio.amateur.homebrew:8764

eternalsquire@comcast.net writes:

> All,
>
> I have a situation, and would like some opinions rather than flames on
> how to handle it.   My wife teaches at a public school just off the
> Easter Arizona Navajo reservation.   Lately, a junior school science
> teacher is starting up a science club and has asked me to provide for
> the amateur radio side of the club and be its control operator.
>

[much snippage]...

I won't flame you at all -- I admire your elmering, and think it's a great idea.

I'd be exteremely careful to make sure you meet the field-strength requirements of Part-15 with whatever project you do -- it can be remarkably easy to get foul of it and reliable measurements require skill.

Besides 80m and the top of the AM ex-band you might also consider the lowfer 1750m stuff ... Lots of kits out there for it, and an active user community.

Of course getting them all licensed would be the best solutiuon ...

Junior high is probably just at the edge of where passing the novice or tech written would be a cake-walk. As I used to joke to my classes, "there's three parts to the written -- three engineering formulae: E=IR ; c = f lambda ; 40inches in a meter., a handful of common sense questions, and a few memorizable factoids" (band edges, etc.)

I had a sixth grader of average intelligence in one class - it was a little harder for her, but she passed it on her second try.

--

Lawrence Statton - lawrenabae@abaluon.abaom s/aba/c/g
Computer software consists of only two components: ones and
zeros, in roughly equal proportions. All that is required is to
place them into the correct order.

From 2899648863091966292
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j27g2000cwj.googlegroups.com!not-for-mail
From: eternalsquire@comcast.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 25 Jan 2007 19:29:27 -0800
Organization: http://groups.google.com
Lines: 47
Message-ID: <1169782167.590242.297400@j27g2000cwj.googlegroups.com>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<878xfqjxsr.fsf@gmail.com>
NNTP-Posting-Host: 67.142.130.14
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1169782184 12338 127.0.0.1 (26 Jan 2007 03:29:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Jan 2007 03:29:44 +0000 (UTC)
In-Reply-To: <878xfqjxsr.fsf@gmail.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j27g2000cwj.googlegroups.com; posting-host=67.142.130.14;
posting-account=RyqjfwwAAADvOapQHMNoJI3nvO5uDrpo
Xref: g2news2.google.com rec.radio.amateur.homebrew:8765

I'm a bit more worried about having them memorize the Clapp, Colpitts,
and Pierce
Oscillators. Isn't that stuff still on Tech exam?

The Eternal Squire

On Jan 25, 8:01 pm, Lawrence Statton XE2/N1GAK
<yankeeinex...@gmail.com> wrote:
> eternalsqu...@comcast.net writes:
> > All,
>
> > I have a situation, and would like some opinions rather than flames on
> > how to handle it. My wife teaches at a public school just off the
> > Easter Arizona Navajo reservation. Lately, a junior school science
> > teacher is starting up a science club and has asked me to provide for
> > the amateur radio side of the club and be its control operator.[much
snippage]...

>
> I won't flame you at all -- I admire your elmering, and think it's a
> great idea.
>
> I'd be exteremely careful to make sure you meet the field-strength
> requirements of Part-15 with whatever project you do -- it can be
> remarkably easy to get foul of it and reliable measurements require
> skill.
>
> Besides 80m and the top of the AM ex-band you might also consider
> the lowfer 1750m stuff ... Lots of kits out there for it, and an
> active user community.
>
> Of course getting them all licensed would be the best solutiuon ...
>
> Junior high is probably just at the edge of where passing the novice
> or tech written would be a cake-walk. As I used to joke to my
> classes, "there's three parts to the written -- three engineering
> formulae: E=IR ; c = f lambda ; 40inches in a meter., a handful of
> common sense questions, and a few memorizable factoids" (band edges,
> etc.)
>
> I had a sixth grader of average intelligence in one class - it was a
> little harder for her, but she passed it on her second try.
>
> --
>   Lawrence Statton - lawrena...@abaluon.abaom s/aba/c/g
> Computer software consists of only two components: ones and
> zeros, in roughly equal proportions.   All that is required is to
> place them into the correct order.

```
From -5176611833011269904
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.litech.org!not-for-
mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: Fri, 26 Jan 2007 03:36:14 +0000 (UTC)
Organization: Me?
Lines: 17
Sender: mikea@mikea.ath.cx
Message-ID: <epbsvd$e2e$2@puck.litech.org>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<878xfqjxsr.fsf@gmail.com> <1169782167.590242.297400@j27g2000cwj.googlegroups.com>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1169782574 14414 68.15.203.64 (26 Jan 2007 03:36:14 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Fri, 26 Jan 2007 03:36:14 +0000 (UTC)
```

X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:8766

On 25 Jan 2007 19:29:27 -0800, eternalsquire@comcast.net wrote in
<1169782167.590242.297400@j27g2000cwj.googlegroups.com>:
> I'm a bit more worried about having them memorize the Clapp, Colpitts,
> and Pierce
> Oscillators. Isn't that stuff still on Tech exam?

> The Eternal Squire

OhHellNo! Techs need to memorize band edges and remember the 2 basic
rules: E = I * R, c = lambda * f, and a meter is really close to 40".

I doubt it's even on the _commercial_ exams any more, though it sure
was when I got my Second Phone, back in 1962.

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From -3453126175070547529
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.litech.org!not-for-mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Supersedes: <epbsvd$e2e$2@puck.litech.org>
Date: Fri, 26 Jan 2007 03:36:44 +0000 (UTC)
Organization: Me?
Lines: 17
Sender: mikea@mikea.ath.cx
Message-ID: <epbt0b$e2e$3@puck.litech.org>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com> <878xfqjxsr.fsf@gmail.com> <1169782167.590242.297400@j27g2000cwj.googlegroups.com>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1169782604 14414 68.15.203.64 (26 Jan 2007 03:36:44 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Fri, 26 Jan 2007 03:36:44 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:8767

On 25 Jan 2007 19:29:27 -0800, eternalsquire@comcast.net wrote in
<1169782167.590242.297400@j27g2000cwj.googlegroups.com>:
> I'm a bit more worried about having them memorize the Clapp, Colpitts,
> and Pierce
> Oscillators. Isn't that stuff still on Tech exam?

> The Eternal Squire

OhHellNo! Techs need to memorize band edges and remember the 3 basic
rules: E = I * R, c = lambda * f, and a meter is really close to 40".

I doubt it's even on the _commercial_ exams any more, though it sure
was when I got my Second Phone, back in 1962.

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From -1344618521894349652
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-online.de!news.germany.com!aioe.org!not-for-mail
From: "John" <groups5not@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: Thu, 25 Jan 2007 22:44:01 -0600
Organization: Aioe.org NNTP Server
Lines: 50
Message-ID: <epc0uv$ato$1@aioe.org>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
NNTP-Posting-Host: OjTRHwM2Vyreu38USWncyQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Antivirus-Status: Clean
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Antivirus: avast! (VPS 000706-2, 01/25/2007), Outbound message
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.homebrew:8768

<eternalsquire@comcast.net> wrote in message
news:1169778210.634297.63500@a75g2000cwd.googlegroups.com...

> My question is this: so long as final output to the antenna is within
> the requirement of part 15 unlicensed operation, is part 15 unlicensed
> operation allowed within a band normally governed under part 97?

> Part 15 operation would easily cover a 30 mile radius on 80M.

http://www.access.gpo.gov/nara/cfr/waisidx_06/47cfr15_06.html

Part 15.223 says in part...

"Subpart C_Intentional Radiators
Sec. 15.223 Operation in the band 1.705-10 MHz.

(a) The field strength of any emission within the band 1.705-10.0 MHz shall not exceed 100 microvolts/meter at a distance of 30 meters. However, if the bandwidth of the emission is less than 10% of the center frequency, the field strength shall not exceed 15 microvolts/meter or (the bandwidth of the device in kHz) divided by (the center frequency of the device in MHz) microvolts/meter at a distance of 30 meters, whichever is the higher level."

For CW operation, your bandwidth is zero for all practical purposes. You will therefore be allowed 15 uV/m at 30 meters.

From this I made a very crude estimate of your allowed transmitter output power. Assuming your transmitter antenna is 100% efficient and radiates hemispherically, your transmitter output power is allowed to be no more than about 1.7 nanowatts (1.7e-9 watts). For ideal circumstances (0 dB receiver antenna gain, 100% efficient receiver antenna), you would get less than 5 uV at a receiver 400 meters away. I stress that this is for ideal circumstances. If your transmitting antenna is less efficient, you can run more power, but less of your power gets launched. How efficient is that antenna, anyway? On the other hand, your antenna may have some directivity which would further limit your power.

This is making my head hurt.

All that can really be said about this estimate is that, to be safe, you should not have much more than about 2 nanowatts output power unless you have the ability to measure the field strength according to regulations.

Good luck with your project.

73,
John

From 2692929488878263517
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Where does part 97 end and part 15 begin?
Date: 26 Jan 2007 05:04:11 GMT
Organization: The National Capital FreeNet
Lines: 87
Message-ID: <epc24b$ghm$1@theodyn.ncf.ca>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1169787851 16950 134.117.136.48 (26 Jan 2007 05:04:11 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 26 Jan 2007 05:04:11 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8769

(eternalsquire@comcast.net) writes:

> What I want to do is provide each kid with a popcorn CW transceiver for the colorburst frequency (3579 khz), a key, a short random wire, and a battery. That way they could practice amongst themselves with myself as occasional net control.

The last thing in the world you want to do is give them the ability to send and receive. Because then you'll get a bunch of senders and nobody who can receive.

I made the same mistake when I was ten and got a morse code set. Two units connected by wires, and you could switch between a morse sounder, a light bulb or a buzzer. It was great for sending away, but the problem was there was nobody to receive. And sending didn't mean a thing in learning to receive.

I think it's correct to believe that youngsters would be interested in morse code, a "secret language" at an age when "secret language" means something.

But I don't see this helping.

You need to send to them, something they don't need licenses for or a worry about whether the transmitter needs a license or not. But then, they do need receivers. Only later will they have the ability to communicate with morse code.

They don't need license-free transmitters to get a feel for ham radio. They can talk (and if they know morse code, send) as third parties over your station. You can build up simple receivers for them, or better yet get them interested in building their own simple receivers, and then listen to a ham band or your code practice transmissions.

Building the receivers is a way to get them enthused about the hobby, if done right. Again, getting the thing to work is a sense of accomplishment, and it doesn't matter how simple the receiver might be.

Charles Kitchin has had some simple regen receivers in QST in recent years, using easy to get parts. I looked at one and everything could come out of a good junk box. He had one that used a color subcarrier crystal, again an easy to get part and which made it easy to tune. At least one of the articles is at the ARRL website for all to access. Do a websearch on his name, and you'll find that various clubs have done it as a group project.

But also, when amateur radio is taught in schools, it always looks good, because so many pass the test. I'm not so sure so many stick with the hobby. Some of what's appealing about the hobby is that it's not for everyone. I passed the test when I was 12, and it was something to boast about at school, if school hadn't ended just before I got the test results. I'm not convinced it would have had the same appeal if it had been a regular school thing.

So often amateur radio benefits those school kids as a catalyst for other things. And thus it's important that in this case getting the ham license isn't the end goal. Getting them interested in learning, getting them interested in building, even getting them interested in communicating should be the goal. If they get something out of building a simple radio receiver, then that's more important than passing a test but getting nothing.

So letting them be third parties on your radio, and talking to distant places, or even other reserves, is beneficial, whether or not it leads them to getting a license. Getting them interested in building, be it a radio receiver or some other gadget that can be made with junk parts, is beneficial in itself. (And maybe a reservation isn't the home of much electronic trash, but it's generally so easy to get that they could learn from the act of taking things apart.) Build up various means of sending morse code, and use that as demonstration of things, rather than seeing morse code as the goal. You can send morse by radio, and light, but you can also modulate a light so you get a tone with morse code out of the speaker at the receiving end. During WWII there was various activity using the earth to send and receiver (since ham licenses were in suspension), and that's another neat thing. You need to show them that there are neat things, before they can pursue those things.

These things are the lure to get them interested in amateur radio. They help to make going after the license appealing. But if it's done right, they will benefit long before they make a decision about getting a ham license.

Michael VE2BVW

From 1706986969198988620
X-Google-Thread: fc2a5,a8cc406be44a122c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Low Noise VFO
References: <1169083418.423858.144080@11g2000cwr.googlegroups.com>
In-Reply-To: <1169083418.423858.144080@11g2000cwr.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 15
Message-ID: <Vefuh.186$AP4.191536@news.sisna.com>
Date: Thu, 25 Jan 2007 20:14:50 -0800
NNTP-Posting-Host: 66.81.182.0
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169784885 66.81.182.0 (Thu, 25 Jan 2007 21:14:45 MST)
NNTP-Posting-Date: Thu, 25 Jan 2007 21:14:45 MST
Organization: Internet News Service
X-Received-Date: Thu, 25 Jan 2007 21:14:45 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8770

llobdelljr wrote:
> I was surfing the net and found a reference to an unusual low phase
> noise LC VFO that uses two inductors. Unfortunately it seems I forgot
> to bookmark the site. Can anyone help?
>
> Thanks,
> Larry Lobdell Jr.
>

Perhaps this is it?

http://www.k8iqy.com/qrprigs/2n215/2n215page.htm

Regards,
JS

From 5877928061422161873
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: "RST Engineering" <jim@rstengineering.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
Subject: Re: Where does part 97 end and part 15 begin?
Lines: 28
X-Priority: 3

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <SVhuh.258$es3.117876@news.sisna.com>
Date: Thu, 25 Jan 2007 23:16:43 -0800
NNTP-Posting-Host: 70.41.242.222
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169795826 70.41.242.222 (Fri, 26 Jan 2007 00:17:06 MST)
NNTP-Posting-Date: Fri, 26 Jan 2007 00:17:06 MST
Organization: Internet News Service
X-Received-Date: Fri, 26 Jan 2007 00:17:06 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8771

In fourth grade (1952) a camp counselor had built a voice radio transmitter that put out a signal on the broadcast band that we could hear all over the campground. Was it illegal? HELL yes, it put out almost a watt into a random wire antenna. Could it be heard a couple of miles away? HELL no. It was a watt into a junk antenna.

That illegal transmitter put this kid into a 50 year career as an electronics engineer with a lot of stops along the way.

My advice ... build a VOICE transmitter that has a couple of miles range and let the kids have fun with it.

Licenses, we don't need no steenking licenses...

Jim

<eternalsquire@comcast.net> wrote in message
news:1169778210.634297.63500@a75g2000cwd.googlegroups.com...

> All,
>
> I have a situation, and would like some opinions rather than flames on
> how to handle it.   My wife teaches at a public school just off the
> Easter Arizona Navajo reservation.   Lately, a junior school science
> teacher is starting up a science club and has asked me to provide for
> the amateur radio side of the club and be its control operator.

From -5018168486266519118
X-Google-Thread: fc2a5,a13449e754a93e6e,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Subject: ** One Million FR.EE Visitors **
From: "Jesse" <JesseNOSPAM@Lendeta.com>
Date: Tue, 16 Jan 2007 14:02:02
Message-ID: <1168974200_475@sp6iad.superfeed.net>
Lines: 27

```
Path: g2news2.google.com!news2.google.com!news.germany.com!news.ecp.fr!news1.int-
evry.fr!u-psud.fr!univ-lyon1.fr!news.in2p3.fr!in2p3.fr!proxad.net!
newsfeed1.ip.tiscali.net!tiscali!newsfeed2.ip.tiscali.net!news-out.newsgroups.com!
sp6iad.superfeed.net!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
X-Proxy-User: $$no5i9e51xn-w
X-Report:  Please report illegal or inappropriate use to <abuse@newsfeeds.com>.
Forward a copy of ALL headers INCLUDING the body. (DO NOT SEND ATTACHMENTS)
X-Comments2:  IMPORTANT: Newsfeeds.com does not condone,support,nor tolerate spam
or any illegal or copyrighted postings.
X-Comments:  This message was posted through Newsfeeds.com
Organization:  Superfeed.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8772

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---
MAF Anti-Spam ID: 20070116163001K0i0JzI7



----== Posted via Newsfeeds.Com - Unlimited-Unrestricted-Secure Usenet News==----
http://www.newsfeeds.com The #1 Newsgroup Service in the World! 120,000+
Newsgroups
----= East and West-Coast Server Farms - Total Privacy via Encryption =----


From -4784065431110953373
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v45g2000cwv.googlegroups.com!not-for-
mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 26 Jan 2007 05:01:32 -0800
Organization: http://groups.google.com
Lines: 53
Message-ID: <1169816492.320448.168150@v45g2000cwv.googlegroups.com>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
```

Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1169816505 27765 127.0.0.1 (26 Jan 2007 13:01:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Jan 2007 13:01:45 +0000 (UTC)
In-Reply-To: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v45g2000cwv.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news2.google.com rec.radio.amateur.homebrew:8773

On Jan 25, 9:23 pm, eternalsqu...@comcast.net wrote:
> I have a situation, and would like some opinions rather than flames on
> how to handle it.   My wife teaches at a public school just off the
> Easter Arizona Navajo reservation.   Lately, a junior school science
> teacher is starting up a science club and has asked me to provide for
> the amateur radio side of the club and be its control operator.
>
> She believes that the kids would be fascinated by the Morse code -
> Dxing - Construction end of the hobby, even though Morse is no longer a
> required test element.
>
> The kids are mostly Navajo and thusly have a very limited technological
> background (hence the reason for the club to stir the interest), so I
> need something concrete with immediate payoff to keep their interest
> hooked while getting them as ready as I can to write their Technician
> exam. The nearest VEC is 4 hours away and I'd rather have as few fail
> as possible.
>
> I had thought to start an unlicensed micro-power code practice net
> whose range would be limited to about a 30 mile radius, which is about
> the size of the local reservation right next to the school.
>
> What I want to do is provide each kid with a popcorn CW transceiver for
> the colorburst frequency (3579 khz), a key, a short random wire, and a
> battery.   That way they could practice amongst themselves with
> myself as occasional net control.

Ignoring your legal question, a suggestion:

Radio isn't too impressive among kids these days. Especially in lesser-developed parts of the world (I honestly don't know how much that overlaps with these kids?) everybody has a cellphone anyways.

So if Morse code is to be an attractor (and it is, being an arcane art with secret-code aspects, going to be somewhat attractive to at least some kids), start with wired operation. Yeah, it's really super-basic: battery, key, beeper, wires, maybe a blinking light bulb. But if you skip the basics (and it sounds like these kids may have already missed the basics) then they'll get nothing out of it anyway.

I've worked with similar school-age kids in a vastly more developed/educated part of the U.S. and they generally don't know how to wire a light bulb to a battery even though they all know how to use a USB keychain to exchange MP3's via myspace accounts.

If you're lucky, you'll find a one or two techie kids who take after the detailed radio interests not too different than your own. Otherwise, aim low, very very low in terms of complexity, in an effort to bring up the low end rather than cater to the one or two kids who would really benefit from your more advanced plans.

Tim.

```
From -2045894094712948267
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p10g2000cwp.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 26 Jan 2007 06:27:55 -0800
Organization: http://groups.google.com
Lines: 26
Message-ID: <1169821675.863101.261430@p10g2000cwp.googlegroups.com>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
   <SVhuh.258$es3.117876@news.sisna.com>
NNTP-Posting-Host: 66.19.117.122
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1169821693 7728 127.0.0.1 (26 Jan 2007 14:28:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Jan 2007 14:28:13 +0000 (UTC)
In-Reply-To: <SVhuh.258$es3.117876@news.sisna.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p10g2000cwp.googlegroups.com; posting-host=66.19.117.122;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:8774
```

RST Engineering wrote:

> That illegal transmitter put this kid into a 50 year career as an
> electronics engineer with a lot of stops along the way.
>
> My advice ... build a VOICE transmitter that has a couple of miles range and
> let the kids have fun with it.
>

> Licenses, we don't need no steenking licenses...
>
> Jim
>

Andy writes:

And remember, it is much easier to ask for forgiveness than for permission....

Do what you gotta do, but don't advertise. There is always someone around who will try to make a big thing about it. And for goodness sakes, don't tell anyone involved that what they are doing is illegal. (Also, I would advise against posting this on newsgroups :>)))   )

Andy

```
From -692280542485272195
X-Google-Thread: fc2a5,1c3f8e391a4bc137,start
X-Google-Thread: fcc6e,1c3f8e391a4bc137,start
X-Google-Attributes: gidfc2a5,gidfcc6e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v45g2000cwv.googlegroups.com!not-for-
mail
From: "marc" <amarcpassy@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: L/Series network tuner
Date: 26 Jan 2007 06:51:09 -0800
Organization: http://groups.google.com
Lines: 8
Message-ID: <1169823069.024417.273600@v45g2000cwv.googlegroups.com>
NNTP-Posting-Host: 69.7.162.154
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1169823080 26434 127.0.0.1 (26 Jan 2007 14:51:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Jan 2007 14:51:20 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.9)
Gecko/20061206 Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v45g2000cwv.googlegroups.com; posting-host=69.7.162.154;
   posting-account=waQCNw0AAADuIVf2-SeZ5fkt3xlb6zPE
Xref: g2news2.google.com rec.radio.amateur.homebrew:8775
rec.radio.amateur.antenna:24643
```

In looking to build a tuner, I was looking at an L-network tuner, with switched inductance. If I also add a switch to make it a series-network (capacitance "before" or "after" inductance), what would be the limitations of such a design?   I.e. What types of antennas, or under what conditions would it be inappropriate?

Thanks.

```
From 4356523283620764417
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<SVhuh.258$es3.117876@news.sisna.com>
In-Reply-To: <SVhuh.258$es3.117876@news.sisna.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 24
Message-ID: <57puh.1$4A6.65601@news.sisna.com>
Date: Fri, 26 Jan 2007 07:29:10 -0800
NNTP-Posting-Host: 66.81.60.116
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169825345 66.81.60.116 (Fri, 26 Jan 2007 08:29:05 MST)
NNTP-Posting-Date: Fri, 26 Jan 2007 08:29:05 MST
Organization: Internet News Service
X-Received-Date: Fri, 26 Jan 2007 08:29:05 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8776
```

RST Engineering wrote:

> That illegal transmitter put this kid into a 50 year career as an
> electronics engineer with a lot of stops along the way.
>
> My advice ... build a VOICE transmitter that has a couple of miles range and
> let the kids have fun with it.
>
> Licenses, we don't need no steenking licenses...
>
> Jim
>

And they say the American spirit is dead? They say the men have all
been "feminized" in America? They say the pointy-head attorneys have
brain washed everyone with threats of litigation? They say the
multi-dollar corporations now run the people like a heard of sheep under
thought control?

Hmmm, I wonder ... <grin>

Warmest regards,
JS

From 9021865774196754213
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<SVhuh.258$es3.117876@news.sisna.com>
<1169821675.863101.261430@p10g2000cwp.googlegroups.com>
In-Reply-To: <1169821675.863101.261430@p10g2000cwp.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 22
Message-ID: <w8puh.2$%A6.96351@news.sisna.com>
Date: Fri, 26 Jan 2007 07:30:41 -0800
NNTP-Posting-Host: 66.81.60.116
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169825436 66.81.60.116 (Fri, 26 Jan 2007 08:30:36 MST)
NNTP-Posting-Date: Fri, 26 Jan 2007 08:30:36 MST
Organization: Internet News Service
X-Received-Date: Fri, 26 Jan 2007 08:30:36 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8777

AndyS wrote:

> ...
>   And remember, it is much easier to ask for forgiveness than
> for permission....
>
>   Do what you gotta do, but don't advertise. There is always someone
> around who will try to make a big thing about it. And for goodness
> sakes, don't tell anyone involved that what they are doing is illegal.
> (Also, I would advise against posting this on newsgroups :>)))   )
>
>   Andy
>

AndyS:

To sum that up? "If all else fails play dumb?"

Hey, it has worked for me in the past! <chuckle>

Regards,
JS

From 1512759112346860257
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!
news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<1169816492.320448.168150@v45g2000cwv.googlegroups.com>
In-Reply-To: <1169816492.320448.168150@v45g2000cwv.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 34
Message-ID: <Fgpuh.3$zB6.133251@news.sisna.com>
Date: Fri, 26 Jan 2007 07:39:22 -0800
NNTP-Posting-Host: 66.81.60.116
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169825957 66.81.60.116 (Fri, 26 Jan 2007 08:39:17 MST)
NNTP-Posting-Date: Fri, 26 Jan 2007 08:39:17 MST
Organization: Internet News Service
X-Received-Date: Fri, 26 Jan 2007 08:39:18 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8778

Tim Shoppa wrote:

> ...
> Ignoring your legal question, a suggestion:
>
> Radio isn't too impressive among kids these days. Especially in
> lesser-developed parts of the world (I honestly don't know how much
> that overlaps with these kids?) everybody has a cellphone anyways.

Tim:

I really find there is a LOT of interest in radio these days.

Example:
The wife and I got a pair of maxon 49.??? Mhz communicators, vox, etc.
At first, we got them for the motorcycle we had, the head gear can be
jammed under a helmet and the transceiver clipped on a belt, great for
talking while going down the road.

Lately, with the super walmart and all, we have been using them while
shopping, it is always easy to locate her in the store and we can shop
together even though we shop apart. Or, I can wait outside and just
meet here when she is checking out.

Point is, I can't get through the store without someone striking up a
conversation over these things. If I mention other areas of radio I am
involved in, it can easily turn into an hour conversation ...

Point being, an interest in radio is actually easy to begin in others.
Biggest problem I have noted is that people just don't talk anymore,
with these "conversation starters" on, they do!

Regards,
JS

From 4841857380576218837
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a75g2000cwd.googlegroups.com!not-for-mail
From: eternalsquire@comcast.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 26 Jan 2007 08:07:50 -0800
Organization: http://groups.google.com
Lines: 66
Message-ID: <1169827670.728125.155410@a75g2000cwd.googlegroups.com>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
   <epc0uv$ato$1@aioe.org>
NNTP-Posting-Host: 67.142.130.14
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1169827690 5677 127.0.0.1 (26 Jan 2007 16:08:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Jan 2007 16:08:10 +0000 (UTC)
In-Reply-To: <epc0uv$ato$1@aioe.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1) Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a75g2000cwd.googlegroups.com; posting-host=67.142.130.14;
   posting-account=RyqjfwwAAADvOapQHMNoJI3nvO5uDrpo
Xref: g2news2.google.com rec.radio.amateur.homebrew:8779

John,

So, say I had a CW oscillator on the colorburst frequency. I'll shunt
the output
with a 50 ohm resistor to ground. I'll put a random wire at the top of

the
resistor.

Basic equations yield P = (EE) / R

If R is 50 Ohms and maximum output power is 1.7e-9 watts, then E
is 4.1e-5 volts.

So, would a measurement of 40 microvolts or less across the resistor
be satisfactory?

Thanks,

The Eternal Squire

On Jan 25, 9:44 pm, "John" <groups5...@verizon.net> wrote:
> <eternalsqu...@comcast.net> wrote in
messagenews:1169778210.634297.63500@a75g2000cwd.googlegroups.com...
>
> > My question is this: so long as final output to the antenna is within
> > the requirement of part 15 unlicensed operation, is part 15 unlicensed
> > operation allowed within a band normally governed under part 97?
> > Part 15 operation would easily cover a 30 mile radius on 80M. http://
www.access.gpo.gov/nara/cfr/waisidx_06/47cfr15_06.html
>
> Part 15.223 says in part...
>
> "Subpart C_Intentional Radiators
> Sec. 15.223 Operation in the band 1.705-10 MHz.
>
> (a) The field strength of any emission within the band 1.705-10.0
> MHz shall not exceed 100 microvolts/meter at a distance of 30 meters.
> However, if the bandwidth of the emission is less than 10% of the center
> frequency, the field strength shall not exceed 15 microvolts/meter or
> (the bandwidth of the device in kHz) divided by (the center frequency of
> the device in MHz) microvolts/meter at a distance of 30 meters,
> whichever is the higher level."
>
> For CW operation, your bandwidth is zero for all practical purposes. You
> will therefore be allowed 15 uV/m at 30 meters.
>
> From this I made a very crude estimate of your allowed transmitter output
> power. Assuming your transmitter antenna is 100% efficient and radiates
> hemispherically, your transmitter output power is allowed to be no more than
> about 1.7 nanowatts (1.7e-9 watts). For ideal circumstances (0 dB receiver
> antenna gain, 100% efficient receiver antenna), you would get less than 5 uV
> at a receiver 400 meters away. I stress that this is for ideal
> circumstances. If your transmitting antenna is less efficient, you can run
> more power, but less of your power gets launched. How efficient is that
> antenna, anyway? On the other hand, your antenna may have some directivity
> which would further limit your power.
>
> This is making my head hurt.

>
> All that can really be said about this estimate is that, to be safe, you
> should not have much more than about 2 nanowatts output power unless you
> have the ability to measure the field strength according to regulations.
>
> Good luck with your project.
>
> 73,
> John

From 3161096339311355095
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com> <epc0uv$ato$1@aioe.org> <1169827670.728125.155410@a75g2000cwd.googlegroups.com>
In-Reply-To: <1169827670.728125.155410@a75g2000cwd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 31
Message-ID: <QLpuh.8$bB6.108651@news.sisna.com>
Date: Fri, 26 Jan 2007 08:12:36 -0800
NNTP-Posting-Host: 66.81.60.116
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169827952 66.81.60.116 (Fri, 26 Jan 2007 09:12:32 MST)
NNTP-Posting-Date: Fri, 26 Jan 2007 09:12:32 MST
Organization: Internet News Service
X-Received-Date: Fri, 26 Jan 2007 09:12:32 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8780

eternalsquire@comcast.net wrote:
> John,
>
> So, say I had a CW oscillator on the colorburst frequency. I'll shunt
> the output
> with a 50 ohm resistor to ground. I'll put a random wire at the top of
> the
> resistor.
>
> Basic equations yield P = (EE) / R
>
> If R is 50 Ohms and maximum output power is 1.7e-9 watts, then E
> is 4.1e-5 volts.

>
> So, would a measurement of 40 microvolts or less across the resistor
> be satisfactory?
>
> Thanks,
>
> The Eternal Squire
>

Good question. And, although I support the effort, which was stated, in helping the youngsters--you also must recognize I would be slow to give advice. I don't wish to invoke the pointy-headed attorneys when I have no horse in the race ... <grin>

Proceed at your own peril ...

Warmest regards,
JS

From 7462194571471980038
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!newsfeed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<epc0uv$ato$1@aioe.org> <1169827670.728125.155410@a75g2000cwd.googlegroups.com>
<QLpuh.8$bB6.108651@news.sisna.com>
In-Reply-To: <QLpuh.8$bB6.108651@news.sisna.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 10
Message-ID: <ZRpuh.9$zz6.31776@news.sisna.com>
Date: Fri, 26 Jan 2007 08:19:10 -0800
NNTP-Posting-Host: 66.81.60.116
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169828345 66.81.60.116 (Fri, 26 Jan 2007 09:19:05 MST)
NNTP-Posting-Date: Fri, 26 Jan 2007 09:19:05 MST
Organization: Internet News Service
X-Received-Date: Fri, 26 Jan 2007 09:19:05 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8781

John Smith I wrote:

But .0000000017 watts?

I thought we were talking a full watt!

(more of a pirate in me than some <grin>)

JS

From -4986635683795028485
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<epc0uv$ato$1@aioe.org> <1169827670.728125.155410@a75g2000cwd.googlegroups.com>
<QLpuh.8$bB6.108651@news.sisna.com> <ZRpuh.9$zz6.31776@news.sisna.com>
In-Reply-To: <ZRpuh.9$zz6.31776@news.sisna.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 10
Message-ID: <PUpuh.10$5H6.150647@news.sisna.com>
Date: Fri, 26 Jan 2007 08:22:12 -0800
NNTP-Posting-Host: 66.81.60.116
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169828527 66.81.60.116 (Fri, 26 Jan 2007 09:22:07 MST)
NNTP-Posting-Date: Fri, 26 Jan 2007 09:22:07 MST
Organization: Internet News Service
X-Received-Date: Fri, 26 Jan 2007 09:22:07 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8782

John Smith I wrote:

Anyway, I would pursue this much differently.

Indian reservations are exempt from MANY of the rules, regulations and laws the rest of us non-indigenous peoples are subject too.

I'd see if the above were not a factor in all this.

JS

From 3139519792951184334
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!postnews.google.com!a75g2000cwd.googlegroups.com!not-for-mail
From: eternalsquire@comcast.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 26 Jan 2007 08:22:21 -0800
Organization: http://groups.google.com
Lines: 57
Message-ID: <1169828541.876196.215170@a75g2000cwd.googlegroups.com>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
   <epc0uv$ato$1@aioe.org>
NNTP-Posting-Host: 67.142.130.14
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1169828548 24513 127.0.0.1 (26 Jan 2007 16:22:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 26 Jan 2007 16:22:28 +0000 (UTC)
In-Reply-To: <epc0uv$ato$1@aioe.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a75g2000cwd.googlegroups.com; posting-host=67.142.130.14;
   posting-account=RyqjfwwAAADvOapQHMNoJI3nvO5uDrpo
Xref: g2news2.google.com rec.radio.amateur.homebrew:8783

Okay, suppose I make a colorburst CW oscillator and shunt it with a 50
ohm resistor.
I'd put a random wire at the top of the resistor.

So from basic equations P = (EE)/R, with a power limit of 1.7 nanovolt
this gives a voltage limit of 0.6 microvolt.

I'm afraid I don't have a voltmeter or scope that goes that low.

The Eternal Squire

On Jan 25, 9:44 pm, "John" <groups5...@verizon.net> wrote:
> <eternalsqu...@comcast.net> wrote in
messagenews:1169778210.634297.63500@a75g2000cwd.googlegroups.com...
>
> > My question is this: so long as final output to the antenna is within
> > the requirement of part 15 unlicensed operation, is part 15 unlicensed
> > operation allowed within a band normally governed under part 97?
> > Part 15 operation would easily cover a 30 mile radius on 80M. http://
www.access.gpo.gov/nara/cfr/waisidx_06/47cfr15_06.html
>
> Part 15.223 says in part...
>
> "Subpart C_Intentional Radiators
> Sec. 15.223 Operation in the band 1.705-10 MHz.
>
> (a) The field strength of any emission within the band 1.705-10.0

> MHz shall not exceed 100 microvolts/meter at a distance of 30 meters.
> However, if the bandwidth of the emission is less than 10% of the center
> frequency, the field strength shall not exceed 15 microvolts/meter or
> (the bandwidth of the device in kHz) divided by (the center frequency of
> the device in MHz) microvolts/meter at a distance of 30 meters,
> whichever is the higher level."
>
> For CW operation, your bandwidth is zero for all practical purposes. You
> will therefore be allowed 15 uV/m at 30 meters.
>
> From this I made a very crude estimate of your allowed transmitter output
> power. Assuming your transmitter antenna is 100% efficient and radiates
> hemispherically, your transmitter output power is allowed to be no more than
> about 1.7 nanowatts (1.7e-9 watts). For ideal circumstances (0 dB receiver
> antenna gain, 100% efficient receiver antenna), you would get less than 5 uV
> at a receiver 400 meters away. I stress that this is for ideal
> circumstances. If your transmitting antenna is less efficient, you can run
> more power, but less of your power gets launched. How efficient is that
> antenna, anyway? On the other hand, your antenna may have some directivity
> which would further limit your power.
>
> This is making my head hurt.
>
> All that can really be said about this estimate is that, to be safe, you
> should not have much more than about 2 nanowatts output power unless you
> have the ability to measure the field strength according to regulations.
>
> Good luck with your project.
>
> 73,
> John

From -5663168331814529759
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<epc0uv$ato$1@aioe.org> <1169827670.728125.155410@a75g2000cwd.googlegroups.com>
<QLpuh.8$bB6.108651@news.sisna.com> <ZRpuh.9$zz6.31776@news.sisna.com>
<PUpuh.10$5H6.150647@news.sisna.com>
In-Reply-To: <PUpuh.10$5H6.150647@news.sisna.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

```
Lines: 17
Message-ID: <MZpuh.11$Ez6.36901@news.sisna.com>
Date: Fri, 26 Jan 2007 08:27:29 -0800
NNTP-Posting-Host: 66.81.60.116
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169828844 66.81.60.116 (Fri, 26 Jan 2007 09:27:24 MST)
NNTP-Posting-Date: Fri, 26 Jan 2007 09:27:24 MST
Organization: Internet News Service
X-Received-Date: Fri, 26 Jan 2007 09:27:24 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8784
```

John Smith I wrote:
> John Smith I wrote:
>
> Anyway, I would pursue this much differently.
>
> Indian reservations are exempt from MANY of the rules, regulations and
> laws the rest of us non-indigenous peoples are subject too.
>
> I'd see if the above were not a factor in all this.
>
> JS

Just think! Instead of the Indians having a monopoly on all gambling in
California (yes, I know, it is really vegas using the Indians), they
could now go ahead and get a monopoly on all broadcasting!

JS

```
From -8636722615960319453
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news02.roc.ny.POSTED!fd24bd7a!
not-for-mail
From: gwatts <gwatts@frontiernet.net>
User-Agent: Mozilla Thunderbird 1.0.6 (Windows/20050716)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<epc0uv$ato$1@aioe.org> <1169827670.728125.155410@a75g2000cwd.googlegroups.com>
<QLpuh.8$bB6.108651@news.sisna.com> <ZRpuh.9$zz6.31776@news.sisna.com>
<PUpuh.10$5H6.150647@news.sisna.com> <MZpuh.11$Ez6.36901@news.sisna.com>
In-Reply-To: <MZpuh.11$Ez6.36901@news.sisna.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 24
Message-ID: <Qnquh.1414$ya1.157@news02.roc.ny>
X-Complaints-To: abuse-news@frontiernet.net
```

```
X-Trace:
52616e646f6d49562b9a4c60c190d420d4353e19db09195da5cca4e1997951ed88d05e9a8a066defe6
a2d644eeefdd4c81247e60881b468e4cedb2dbe4dcc96a5882ebb78b5bad33b36a438cb2b5c5422ef1
caec6b39043a1d85a4856a6e63b97f3a42ee32220b62af4965dc1c3ef2cb71515a091216386cc452c2
a3bc07bfca
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Fri, 26 Jan 2007 16:55:12 UTC
Date: Fri, 26 Jan 2007 16:55:12 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8785

John Smith I wrote:
> John Smith I wrote:
>
>> John Smith I wrote:
>>
>> Anyway, I would pursue this much differently.
>>
>> Indian reservations are exempt from MANY of the rules, regulations and
>> laws the rest of us non-indigenous peoples are subject too.
>>
>> I'd see if the above were not a factor in all this.
>>
>> JS
>
>
> Just think!  Instead of the Indians having a monopoly on all gambling in
> California (yes, I know, it is really vegas using the Indians), they
> could now go ahead and get a monopoly on all broadcasting!
>
> JS

Myself and a colleague discussed the number of permits and variances
needed to launch real, orbital-type rockets and wondered how much would
be required if you launched from a Native reservation.


From -4351796460215407722
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
novia!novia!sequencer.newscene.com!not-for-mail
From: Paul W. Schleck <pschleck@novia.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 26 Jan 2007 12:14:04 -0600
Organization: Novia Internetworking, http://www.novia.net/
Lines: 60
Message-ID: <45ba4491$0$171$540ea2cf@novia.net>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
User-Agent: nn/6.6.3
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:8786

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

In <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
eternalsquire@comcast.net writes:

>All,

>I have a situation, and would like some opinions rather than flames on how to handle it. My wife teaches at a public school just off the Easter Arizona Navajo reservation. Lately, a junior school science teacher is starting up a science club and has asked me to provide for the amateur radio side of the club and be its control operator.

[...]

>What I want to do is provide each kid with a popcorn CW transceiver for the colorburst frequency (3579 khz), a key, a short random wire, and a battery. That way they could practice amongst themselves with myself as occasional net control.

[...]

>My question is this: so long as final output to the antenna is within the requirement of part 15 unlicensed operation, is part 15 unlicensed operation allowed within a band normally governed under part 97? Part 15 operation would easily cover a 30 mile radius on 80M.

>If no, I'll run the net under part 15 on the edge of the AM band near 160M.

>Thanks in advance,

>The Eternal Squire

I think this is an excellent, and well-intentioned, idea in principle. Others here have given good advice about being careful about power levels. The Technical Information Service (TIS) at the American Radio Relay League (ARRL) has put together a very comprehensive and informative web page relating to Part 15. It's particularly helpful in explaining about how Part 15 fits in with Part 97. It can be found at:

http://www.arrl.org/tis/info/part15.html

Especially note the "Myths" and "Scope" links at the above site.

- --
73, Paul W. Schleck, K3FU
pschleck@novia.net
http://www.novia.net/~pschleck/
Finger pschleck@novia.net for PGP Public Key

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (SunOS)

iD8DBQFFujAz6Pj0az779o4RAsCLAJ9XlNAFNW+QlZ0VDDK6UEB/V6E/mgCfV9xq
w9Pir5leWIFOmGTRZfj/vGM=
=cIeL
-----END PGP SIGNATURE-----

From -6113367897715169144
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<45ba4491$0$171$540ea2cf@novia.net>
In-Reply-To: <45ba4491$0$171$540ea2cf@novia.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 18
Message-ID: <XTruh.23$0B6.97376@news.sisna.com>
Date: Fri, 26 Jan 2007 10:37:49 -0800
NNTP-Posting-Host: 66.81.61.221
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169836663 66.81.61.221 (Fri, 26 Jan 2007 11:37:43 MST)
NNTP-Posting-Date: Fri, 26 Jan 2007 11:37:43 MST
Organization: Internet News Service
X-Received-Date: Fri, 26 Jan 2007 11:37:43 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8787

Paul W. Schleck wrote:

> ...

I certainly hope Paul is an attorney, as if he speaks about the reservation, I hope he speaks with knowledge.

Here is a paper which will demonstrate there is "quite a bit of controversy" over legality of 97 and 15 on reservations:

http://www.fcc.gov/sptf/files/0801fcc.pdf

Course, with some, an amateur license immediately makes them an authority in all areas ...

Warmest regards,
JS

From 4522342047081153513
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 26 Jan 2007 13:35:18 -0600
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
Subject: Re: Where does part 97 end and part 15 begin?
Date: Fri, 26 Jan 2007 13:35:13 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <hc-dnfssfPZryifYnZ2dnUVZ_rylnZ2d@comcast.com>
Lines: 37
NNTP-Posting-Host: 24.14.246.77
X-Trace: sv3-wo8cmxG2PEW90MZjUmgCtMWSLjrfF7H6CrlVJ2e/
8qh6gCa6bVc7LUVJQfG6LjMskbLIxnUWzz2oMu4!WVuOEsq5KRLlALVtfzHZD9FWt24XrQpqVNmLYAAbt/
UzWnCimq3PZ8bs+livIl15W2JNsBnVuwan!tkrKouT4VtbbAHzPRA==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8788

<eternalsquire@comcast.net> wrote in message
news:1169778210.634297.63500@a75g2000cwd.googlegroups.com...
> All,
>
> I have a situation, and would like some opinions rather than flames on
> how to handle it.   My wife teaches at a public school just off the
> Eastern Arizona Navajo reservation.   Lately, a junior school science
> teacher is starting up a science club and has asked me to provide for
> the amateur radio side of the club and be its control operator.
>
> She believes that the kids would be fascinated by the Morse code -
> DXing - Construction end of the hobby, even though Morse is no longer a
> required test element.
>

> The kids are mostly Navajo and thusly have a very limited technological
> background (hence the reason for the club to stir the interest), so I
> need something concrete with immediate payoff to keep their interest
> hooked while getting them as ready as I can to write their Technician
> exam. The nearest VEC is 4 hours away and I'd rather have as few fail
> as possible.
>

The Navajo people have a proud heritage for their WW2 participation in usage of their language for communication in the Pacific (Japanese could not break it). See movie - Windtalkers (and a couple of others).

CW may be of interest to some - in that it is also a human translated code --
that was a foreign to 19th century US citizens -- as Arabic is to many 21st century Americans today.

You should contact the VEC to see what accommodations they could make -- to assist you for testing. Good luck with it.

w9gb

From -6407900363101326212
X-Google-Thread: fc2a5,1c3f8e391a4bc137
X-Google-Thread: fcc6e,1c3f8e391a4bc137
X-Google-Attributes: gidfc2a5,gidfcc6e,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!news.glorb.com!news.aset.psu.edu!not-for-mail
From: John Passaneau <w3jxp@arrl.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: L/Series network tuner
Date: Fri, 26 Jan 2007 20:05:30 +0000 (UTC)
Organization: Your Company
Lines: 30
Message-ID: <Xns98C49987FED10jxp16psuedu@128.118.141.40>
References: <1169823069.024417.273600@v45g2000cwv.googlegroups.com>
NNTP-Posting-Host: rocks.phys.psu.edu
X-Trace: f04n12.cac.psu.edu 1169841930 39820 128.118.68.88 (26 Jan 2007 20:05:30 GMT)
X-Complaints-To: usenet@f04n12.cac.psu.edu
NNTP-Posting-Date: Fri, 26 Jan 2007 20:05:30 +0000 (UTC)
User-Agent: Xnews/5.04.25
Xref: g2news2.google.com rec.radio.amateur.homebrew:8790 rec.radio.amateur.antenna:24682

"marc" <amarcpassy@gmail.com> wrote in news:1169823069.024417.273600@v45g2000cwv.googlegroups.com:

> In looking to build a tuner, I was looking at an L-network tuner, with

> switched inductance. If I also add a switch to make it a
> series-network (capacitance "before" or "after" inductance), what would
> be the limitations of such a design?   I.e. What types of antennas, or
> under what conditions would it be inappropriate?
>
> Thanks.
>

Hi Marc:

TenTec has made tuners of that design for many years. I have one in my shack and it works very well for me. The advantage of the L-network over the more common T is in ease of tuning. The L-network has only one correct tuning spot for each load. The T network can have several "matching points" some of which can result in large internal losses instead of an efficient match. The L network has slightly less loss when matched than the common T network. The main con for the L network is the requirement to switch the capacitor around to match loads that are greater or smaller than the input load.
Other than the above both networks do the same thing and there is nothing T network can do that the L network can�t and it needs one less capacitor than a T network.
You can see I�m biased to the L, try one you will like it.

John Passaneau
W3JXP State College PA

From 259117769425572957
X-Google-Thread: f4535,a9e47ca63ce52eee
X-Google-Thread: fc2a5,a9e47ca63ce52eee
X-Google-Attributes: gidf4535,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!newshub.sdsu.edu!
hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe09.lga.POSTED!
53ab2750!not-for-mail
From: Sal Brisindi <salb203@optonline.SPAM.net>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.audio.tubes,rec.radio.amateur.homebrew
Subject: Re: FS: NOS, Stancor transformer P-4045
References: <1169842629.716175.209330@h3g2000cwc.googlegroups.com>
In-Reply-To: <1169842629.716175.209330@h3g2000cwc.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 14
Message-ID: <uNvuh.389$JW7.265@newsfe09.lga>
X-Complaints-To: abuse@cv.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mgjcfpjdppbciligkannfilpcpbbolnmkiicmpiammnggdpjkaeacdddhnklminojjlmfhjbiddndcgfdn
glfddalfdmjcbekkeckhgbjidcnpjpjhlgncomjkiabkikpkpgbggmkcdoddmf
NNTP-Posting-Date: Fri, 26 Jan 2007 16:03:54 MST

```
Organization: Optimum Online
Date: Fri, 26 Jan 2007 18:03:53 -0500
Xref: g2news2.google.com rec.audio.tubes:23905 rec.radio.amateur.homebrew:8793

radioanarchy@yahoo.com wrote:
> 2 available.  make offer.
>
> 117 VAC to:
>
> 600 V c.t. @ 40 mA
>  5 V @ 2 A
>  2.5 V c.t. @ 5.25 A
>  6.3 V @ 2 A
>

Would you accept $12.50 each?

Sal Brisindi



From -4158074156437767626
X-Google-Thread: f4535,f060cdd3270a9e4f
X-Google-Thread: fc2a5,f060cdd3270a9e4f
X-Google-Attributes: gidf4535,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe09.lga.POSTED!53ab2750!not-for-mail
From: Sal Brisindi <salb203@optonline.SPAM.net>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.audio.tubes,rec.radio.amateur.homebrew
Subject: Re: FS: NOS, Stancor transformer P-6009
References: <1169842464.045761.204500@h3g2000cwc.googlegroups.com>
In-Reply-To: <1169842464.045761.204500@h3g2000cwc.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 11
Message-ID: <jOvuh.390$JW7.5@newsfe09.lga>
X-Complaints-To: abuse@cv.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mgjcfpjdppbciligkannfilpcpbbolnmackallldkfkkaebkaeacdddhnklminojjlmfhjbiddndcgfdn
glfddalfdmjcbekkeckhgbjidcnpjpcagbiahaefnfeepbpkpgbggmkcdoddmf
NNTP-Posting-Date: Fri, 26 Jan 2007 16:04:47 MST
Organization: Optimum Online
Date: Fri, 26 Jan 2007 18:04:46 -0500
Xref: g2news2.google.com rec.audio.tubes:23906 rec.radio.amateur.homebrew:8794

radioanarchy@yahoo.com wrote:
> 2 available. make offer.   117 VAC to:
>
> 550 V c.t. @ 70 mA
>   5 V  c.t. @ 3 A
```

> 2.5 V c.t. @ 10.5 A
> 5 V c.t. @ .5 A
>

Would you accept $15.00 each?

Sal Brisindi

```
From -5166216531543173864
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 26 Jan 2007 17:22:44 -0600
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<878xfqjxsr.fsf@gmail.com> <1169782167.590242.297400@j27g2000cwj.googlegroups.com>
Subject: Re: Where does part 97 end and part 15 begin?
Date: Fri, 26 Jan 2007 18:22:23 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <QL2dnbMB0MnZECfYnZ2dnUVZ_uKknZ2d@comcast.com>
Lines: 18
NNTP-Posting-Host: 68.61.216.97
X-Trace: sv3-W8fTmWtZ0TJ0PpwY/n0ph+lR0stUKTgMg1M/
il7xpoo6qKTF4b0OLE1mKPAS5J1NVfeMAvoXdg4MOhk!
rI4+WsQpBLU63anUBfu6hMuGGMrgVUKzcq5Xyezan+pFZ7exTlqZ8Ow0rSVVkO/lemNMuiBwqCm3!
RrwRsZXsOstpbNg=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8795
```

<eternalsquire@comcast.net> wrote in message
news:1169782167.590242.297400@j27g2000cwj.googlegroups.com...

> I'm a bit more worried about having them memorize the Clapp, Colpitts,
> and Pierce
> Oscillators. Isn't that stuff still on Tech exam?
>
> The Eternal Squire
>

Nope. It's not on either the Tech or General exams. It does show up on the

Extra exam. Even at that a person might or might not get that question on
their particular exam. Take a look at the Tech test pool on the ARRL set.
You will see that it just covers basic stuff.

Dee, N8UZE

From 4928360226288653806
X-Google-Thread: fc2a5,f70e37c225540cc5,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe12.lga.POSTED!53ab2750!not-for-mail
From: "Jeff James, W2NBC" <w2nbc@optonline.net>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Buy and Sell Tube Gear!
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 6
Message-ID: <64Auh.454$M9.21@newsfe12.lga>
X-Complaints-To: abuse@cv.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
akgkhakholpmeiiekannfilpcpbbolnmihnpbfmbnflmdfiepcmiahnbfabdfekpnkfpmgilncbcmbdlek
ailljmcnlonhghihpfdijacdlbpheendldapggpmkmagpfbcfagklmiblllijll
NNTP-Posting-Date: Fri, 26 Jan 2007 20:56:50 MST
Organization: Optimum Online
Date: Fri, 26 Jan 2007 22:56:49 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8796

You never know what you'll find..

http://www.dealamerica.com/deal/cgi-bin/ads/bcads.cgi

The Boatanchor Classifieds
FREE ads Dedicated to Vintage Amateur Radio...

From -3807225334272256783
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!novia!
sequencer.newscene.com!not-for-mail
From: Paul W. Schleck <pschleck@novia.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Followup-To: rec.radio.amateur.policy

Date: 26 Jan 2007 23:38:02 -0600
Organization: Novia Internetworking, http://www.novia.net/
Lines: 110
Message-ID: <45bae4f5$0$172$540ea2cf@novia.net>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<45ba4491$0$171$540ea2cf@novia.net> <XTruh.23$0B6.97376@news.sisna.com>
User-Agent: nn/6.6.3
Xref: g2news2.google.com rec.radio.amateur.homebrew:8797

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

In <XTruh.23$0B6.97376@news.sisna.com> John Smith I <assemblywizard@gmail.com> writes:

>Paul W. Schleck wrote:

> > ...

>I certainly hope Paul is an attorney, as if he speaks about the
>reservation, I hope he speaks with knowledge.

I am not a lawyer. When faced with legal questions about my own operation, or when trying to help keep apparently honest and sincere people like "Eternal Squire" stay out of trouble, I defer to the true experts. Existing, compiled, and expert advice like that provided at the ARRL TIS site I previously mentioned would seem to be a good place to start. I also value the insight provided here by Usenet participants who are attorneys with experience in communications law. I would certainly defer to their input on this matter, if offered (*).

I also ask myself if I am obeying the spirit as well as the letter of any law or regulation. I don't feel it's within the scope of good amateur practice, personal ethical conduct, or even just overall "good neighbor" guidelines to be focusing on alleged loopholes such as being on a Native American Reservation, in international waters, or an "educational project." Often such excuses are transparent, self-serving, and not borne out in actual legal practice, regulations, treaties, enforcement, etc. Unless I had a lot of legal resources at my disposal (pro bono counsel, etc.), I would probably not seek to try and make myself a legal test case, as some on the newsgroups seem bent on doing.

I would hope that "Eternal Squire", whose post implies that he is a licensed radio amateur, is thinking along these same lines, also. I offered my layperson's advice in that context.

>Here is a paper which will demonstrate there is "quite a bit of
>controversy" over legality of 97 and 15 on reservations:

>http://www.fcc.gov/sptf/files/0801fcc.pdf

I read the above transcript you provided. I note with interest that my friend, fellow ham, and Usenet peer Carl Stevenson (WK3C) was a member of this workshop. I'd certainly defer to his technical expertise. However, the gist I got from the transcript, and from asking legal experts, is that case law is mixed on the subject of whether what happens on a reservation is strictly an internal, tribal matter. That no one present at the workshop wanted to venture an authoritative answer doesn't meant that there aren't those involved in enforcement who could give one. Radio transmitters and casinos are given as principal examples where case law, practice, and jurisdictional agreements go against the assertion that on a reservation, U.S. law does not apply.

>Course, with some, an amateur license immediately makes them an
>authority in all areas ...

It was a question about amateur radio, asked in an amateur radio newsgroup. I suggested that he seek expert advice, such as that summarized at the ARRL TIS web site I linked previously. No more, and no less.

>Warmest regards,
>JS

(*) I did ask one of the experts in communications law that I know personally. He offered the following observations:

> "I would add something to the extent that you have been advised by a communications attorney with over 50 years' experience in FCC regulatory matters that unless there is a specific treaty granting a tribe authority to regulate amateur radio transmissions on a reservation, and there isn't, FCC law and jurisdiction prevail. There are agreements giving tribes authority to determine who may operate a broadcast station from a reservation, but the FCC must regulate the technical parameters (frequency, power, location) to be observed and grant the callsign and make all necessary international notifications.
>
> Similarly, in international waters or airspace, the country of registration of the vessel or aircraft retains jurisdiction, and any country may lodge a complaint of violation of the International Radio Regulations with the country of registration if that is the case.   If the vessel or aircraft is 'unregistered', any country has the authority to blast it out of the water or the air, although that is a drastic measure. The International Radio Regulations do, however. oblige all countries to not condone or support any radio (or TV) broadcasting from international waters or airspace."

As this seems to be drifting into a *.policy area, and not *.homebrew, I've set followups as appropriate. Feel free to override my default if you must.

- --

Paul W. Schleck, K3FU
pschleck@novia.net
http://www.novia.net/~pschleck/
Finger pschleck@novia.net for PGP Public Key

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (SunOS)

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From -5748236463626638066
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
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newshosting.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!
news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<45ba4491$0$171$540ea2cf@novia.net> <XTruh.23$0B6.97376@news.sisna.com>
<45bae4f5$0$172$540ea2cf@novia.net>
In-Reply-To: <45bae4f5$0$172$540ea2cf@novia.net>
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X-Complaints-To: newsabuse@ikano.com
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Organization: Internet News Service
X-Received-Date: Fri, 26 Jan 2007 23:00:40 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8798

Paul W. Schleck wrote:

> ...

Well, I must admit, anyone affiliated with the ARRL turns me off, as it does many. Although they cannot, possibly, be held directly and solely responsible for bringing amateur radio to the brink of disaster it now hangs at, they certainly have never helped much, well, other than themselves.

However, I would strongly suggest anyone to investigate all of the options open to an Indian reservation, the laws which govern them are much different than those governing all other areas of the USA. If I read that paper correctly (mentioned in my earlier post), the FCC would seem to be mostly interested in the rf which left the borders of the reservation.

I know ripples of shock went through the population of California when they were allowed to operate gambling casinos. Something most did not expect.

I would not be surprised if further surprises along those same line do not await us ...

Now, as to the rest, I am simply not impressed nor interested ...

Regards,
JS

```
From 955711277119390494
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X-Google-Language: ENGLISH,ASCII-7-bit
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mail
From: "goat pimp" <kboyfs@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: off topic: DCG kit
Date: 26 Jan 2007 23:32:30 -0800
Organization: http://groups.google.com
Lines: 23
Message-ID: <1169883149.994755.40810@q2g2000cwa.googlegroups.com>
NNTP-Posting-Host: 75.61.54.49
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X-Trace: posting.google.com 1169883155 13087 127.0.0.1 (27 Jan 2007 07:32:35 GMT)
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NNTP-Posting-Date: Sat, 27 Jan 2007 07:32:35 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.0.3705; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q2g2000cwa.googlegroups.com; posting-host=75.61.54.49;
   posting-account=dTeoWg0AAAAWbt5q5xGV_66YM3x7VkMV
Xref: g2news2.google.com rec.radio.amateur.homebrew:8799
```

Ok, please dont everyone get mad at me, but I just started puting this together and I really would like to promote my new holography kit and I think it may be something of interest to you all. I put together a web sight, and I would also like feed back on the sight.

So PLEASE even if you dont go buy one (and I dont blame you, it's not everyone's thing) please give it a look and if you have any sugestions,

let me know, I actualy plan to 'open' on feb 1st, but the sight is funtional, just unadvertised now. Any way the addy is

http://dcgkit.t35.com/

I hope no one is upset, I know it's a comercial endever, but I do think

it's a subject of interest to the group.

Daniel

From -8902544826596094222
X-Google-Thread: fc2a5,701ff318ab4a9d73
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 27 Jan 2007 09:40:53 -0600
From: "John Doe" <hgorden@adelphia.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1169883149.994755.40810@q2g2000cwa.googlegroups.com>
Subject: Re: off topic: DCG kit
Date: Sat, 27 Jan 2007 10:40:54 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
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Message-ID: <CtmdneSLw7cY7ybYnZ2dnUVZ_q6vnZ2d@adelphia.com>
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TFNQWDPHkEXGSrWk5wP638n1P1tS
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32

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Xref: g2news2.google.com rec.radio.amateur.homebrew:8800

MacAfee says "t35.com may cause a breach of browser security. - A garbage
web site"

"goat pimp" <kboyfs@yahoo.com> wrote in message
news:1169883149.994755.40810@q2g2000cwa.googlegroups.com...
> Ok, please dont everyone get mad at me, but I just started puting this
> together and I really would like to promote my new holography kit and I
>
> think it may be something of interest to you all. I put together a web
> sight, and I would also like feed back on the sight.
>
> So PLEASE even if you dont go buy one (and I dont blame you, it's not
> everyone's thing) please give it a look and if you have any sugestions,
>
> let me know, I actualy plan to 'open' on feb 1st, but the sight is
> funtional, just unadvertised now. Any way the addy is
>
>
> http://dcgkit.t35.com/
>
>
> I hope no one is upset, I know it's a comercial endever, but I do think
>
> it's a subject of interest to the group.
>
>
> Daniel
>




From 5505471600037121172
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<45ba4491$0$171$540ea2cf@novia.net> <XTruh.23$0B6.97376@news.sisna.com>
<45bae4f5$0$172$540ea2cf@novia.net> <cUBuh.75$iB7.179326@news.sisna.com>
<3p1nr2hlrmgo05g8c05me802tisusehs37@4ax.com>
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Message-ID: <EWLuh.175$3d.227432@news.sisna.com>
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NNTP-Posting-Host: 66.81.61.57
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169918756 66.81.61.57 (Sat, 27 Jan 2007 10:25:56 MST)
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Organization: Internet News Service
X-Received-Date: Sat, 27 Jan 2007 10:25:56 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8802
```

Jim Higgins wrote:

> ...
> If you read that paper correctly all you saw was a few casual remarks
> on a topic that was dropped as fast as it arose and was never at any
> time addressed seriously in that document. To infer anything from
> what was said is, IMHO, foolish at best.

As I remember, gambling on reservations had almost that/those humble beginnings ...

It is clear, in my personal opinion, the FCC would have NO interest in rf levels on the reservation, and ONLY those leaving the borders of the reservation would EVER come into question ...

Regards,
JS

```
From 4861918317579990834
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
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Path: g2news2.google.com!news3.google.com!news4.google.com!
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cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc06.POSTED!24dd0da6!
not-for-mail
Sender: Jim Pennino <jimp@mail.specsol.com>
Message-ID: <7nfs84-504.ln1@mail.specsol.com>
From: jimp@specsol.spam.sux.com
Subject: Re: Where does part 97 end and part 15 begin?
Newsgroups: rec.radio.amateur.homebrew
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<45ba4491$0$171$540ea2cf@novia.net> <XTruh.23$0B6.97376@news.sisna.com>
<45bae4f5$0$172$540ea2cf@novia.net> <cUBuh.75$iB7.179326@news.sisna.com>
<3p1nr2hlrmgo05g8c05me802tisusehs37@4ax.com> <EWLuh.175$3d.227432@news.sisna.com>
User-Agent: tin/1.8.1-20060215 ("Mealasta") (UNIX) (SunOS/5.9 (sun4u))
Lines: 23
Date: Sat, 27 Jan 2007 17:55:02 GMT
NNTP-Posting-Host: 71.118.11.57
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```

```
Xref: g2news2.google.com rec.radio.amateur.homebrew:8803
```

John Smith I <assemblywizard@gmail.com> wrote:
> Jim Higgins wrote:
>
> > ...
> > If you read that paper correctly all you saw was a few casual remarks
> > on a topic that was dropped as fast as it arose and was never at any
> > time addressed seriously in that document. To infer anything from
> > what was said is, IMHO, foolish at best.
>
> As I remember, gambling on reservations had almost that/those humble
> beginnings ...
>
> It is clear, in my personal opinion, the FCC would have NO interest in
> rf levels on the reservation, and ONLY those leaving the borders of the
> reservation would EVER come into question ...

People living on the reservation have all the consumer electronics that can be interfered with that people living off the reservation have.

--
Jim Pennino

Remove .spam.sux to reply.

```
From 7979051781996649405
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<45ba4491$0$171$540ea2cf@novia.net> <XTruh.23$0B6.97376@news.sisna.com>
<45bae4f5$0$172$540ea2cf@novia.net> <cUBuh.75$iB7.179326@news.sisna.com>
<3p1nr2hlrmgo05g8c05me802tisusehs37@4ax.com> <EWLuh.175$3d.227432@news.sisna.com>
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X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169921138 66.81.61.57 (Sat, 27 Jan 2007 11:05:38 MST)
NNTP-Posting-Date: Sat, 27 Jan 2007 11:05:38 MST
Organization: Internet News Service
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X-Received-Date: Sat, 27 Jan 2007 11:05:39 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8804

John Smith I wrote:
> Jim Higgins wrote:
>
> > ...
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>> on a topic that was dropped as fast as it arose and was never at any
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> beginnings ...
>
> It is clear, in my personal opinion, the FCC would have NO interest in
> rf levels on the reservation, and ONLY those leaving the borders of the
> reservation would EVER come into question ...
>
> Regards,
> JS

Jim:

Let me go a bit further on this. I happen to have a sister who works for Child Protective Services in California (CPS.)

If you are Indian (even part) and CPS pays you a visit, and you ARE Indian, they must immediately back down and defer to the Indian Council on the reservation/tribe which the person in question is a member of ... that individual is NOT subject to the same laws you or I would be.

Let me go a bit further:
If you are Indian, the welfare agency will provide "different" benefits to you than some others. Indeed, the Washoe Tribe of California and Nevada "chip in" and provide you with "expanded" benefits and medical assistance.

The above was/were gleaned though discussions with my sister over time ... anyone interested can investigate for themselves. I am intrigued by the fact the Indians care for their own so well; I would be interested in knowing more.

Regards,
JS

From 7995946378250027605
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail

From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<45ba4491$0$171$540ea2cf@novia.net> <XTruh.23$0B6.97376@news.sisna.com>
<45bae4f5$0$172$540ea2cf@novia.net> <cUBuh.75$iB7.179326@news.sisna.com>
<3p1nr2hlrmgo05g8c05me802tisusehs37@4ax.com> <EWLuh.175$3d.227432@news.sisna.com>
<7nfs84-504.ln1@mail.specsol.com>
In-Reply-To: <7nfs84-504.ln1@mail.specsol.com>
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Organization: Internet News Service
X-Received-Date: Sat, 27 Jan 2007 11:12:24 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8805

jimp@specsol.spam.sux.com wrote:

> ...
> People living on the reservation have all the consumer electronics that
> can be interfered with that people living off the reservation have.
>

Jim:

Most likely equal or better!

Those Indians living on the reservation in Amador County receive approx. $5000.00 per month/per individual.

A family of three would get about $15,000 a month from the proceeds of the casino, if they actually work in the casino, more ... they don't pay taxes on their cigarettes either!

That just ain't bad, and leaves a couple of bucks left over to purchase hobby items ... some drive nice Hummers, I have noticed ...

Regards,
JS

From 9215829780112034202
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-online.de!news.germany.com!aioe.org!not-for-mail
From: "John" <groups5not@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: Sat, 27 Jan 2007 12:43:21 -0600
Organization: Aioe.org NNTP Server
Lines: 42
Message-ID: <epg6ge$u8h$1@aioe.org>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<epc0uv$ato$1@aioe.org> <1169827670.728125.155410@a75g2000cwd.googlegroups.com>
NNTP-Posting-Host: 70Ku0Vldl/50ZyFpzdtoYw.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Antivirus-Status: Clean
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-Antivirus: avast! (VPS 000707-0, 01/27/2007), Outbound message
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.homebrew:8806

<eternalsquire@comcast.net> wrote in message
news:1169827670.728125.155410@a75g2000cwd.googlegroups.com...
> John,
>
> So, say I had a CW oscillator on the colorburst frequency. I'll shunt
> the output
> with a 50 ohm resistor to ground. I'll put a random wire at the top of
> the
> resistor.
>
> Basic equations yield P = (EE) / R
>
> If R is 50 Ohms and maximum output power is 1.7e-9 watts, then E
> is 4.1e-5 volts.
>
> So, would a measurement of 40 microvolts or less across the resistor
> be satisfactory?
>
> Thanks,
>
> The Eternal Squire

I think it would be about 300 uV across 50 ohms (I think you are off by
about an order of magnitude). Yes, I think that would be okay. A good place
to understand this stuff is on the ARRL site. Look into the BPL and RFI
things there. Read everything you can find about this subject. If you
research this thoroughly, you will find allies in the field, I'm sure.

My intent here is not to discourage you in your project, but to encourage you to think critically. Always ask yourself why this has not been done before. Most of the time there is a reason, but sometimes (a small percentage of the time) it is because nobody has had an interest in the subject.

But, you didn't ask for my philosophy. I sometimes get carried away. I apologize for that.

Cheers and 73,
John

From -9981272584739109O2
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h3g2000cwc.googlegroups.com!not-for-mail
From: eternalsquire@comcast.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 27 Jan 2007 11:16:36 -0800
Organization: http://groups.google.com
Lines: 117
Message-ID: <1169925395.945074.190900@h3g2000cwc.googlegroups.com>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<45ba4491$0$171$540ea2cf@novia.net>
<XTruh.23$0B6.97376@news.sisna.com>
<45bae4f5$0$172$540ea2cf@novia.net>
NNTP-Posting-Host: 67.142.130.14
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1169925412 25199 127.0.0.1 (27 Jan 2007 19:16:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Jan 2007 19:16:52 +0000 (UTC)
In-Reply-To: <45bae4f5$0$172$540ea2cf@novia.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1) Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h3g2000cwc.googlegroups.com; posting-host=67.142.130.14;
posting-account=RyqjfwwAAADvOapQHMNoJI3nvO5uDrpo
Xref: g2news2.google.com rec.radio.amateur.homebrew:8807

Paul,

Its my opinion, the fact that these childrens' homes are on Navajo Land is legally irrelevant.

>From what I understand, Native territories are jurisdictions having roughly equal standing

to the states, but just like states are still subject to the
Constitution and to Acts of Congress,
such as the one authorizing the FCC and parts 15 and 97.

As for using a pseudonym, I use that rather than my name or call for
obvious reasons of
personal safety for myself and my family.

Cheers,

The Eternal Squire

On Jan 26, 10:38 pm, Paul W. Schleck <pschl...@novia.net> wrote:
> -----BEGIN PGP SIGNED MESSAGE-----
> Hash: SHA1
>
> In <XTruh.23$0B6.97...@news.sisna.com> John Smith I <assemblywiz...@gmail.com>
writes:
>
> >Paul W. Schleck wrote:
> > > ...
> >I certainly hope Paul is an attorney, as if he speaks about the
> >reservation, I hope he speaks with knowledge.I am not a lawyer. When faced
with legal questions about my own
> operation, or when trying to help keep apparently honest and sincere
> people like "Eternal Squire" stay out of trouble, I defer to the true
> experts. Existing, compiled, and expert advice like that provided at
> the ARRL TIS site I previously mentioned would seem to be a good place
> to start. I also value the insight provided here by Usenet participants
> who are attorneys with experience in communications law. I would
> certainly defer to their input on this matter, if offered (*).
>
> I also ask myself if I am obeying the spirit as well as the letter of
> any law or regulation. I don't feel it's within the scope of good
> amateur practice, personal ethical conduct, or even just overall "good
> neighbor" guidelines to be focusing on alleged loopholes such as being
> on a Native American Reservation, in international waters, or an
> "educational project." Often such excuses are transparent,
> self-serving, and not borne out in actual legal practice, regulations,
> treaties, enforcement, etc. Unless I had a lot of legal resources at my
> disposal (pro bono counsel, etc.), I would probably not seek to try and
> make myself a legal test case, as some on the newsgroups seem bent on
> doing.
>
> I would hope that "Eternal Squire", whose post implies that he is a
> licensed radio amateur, is thinking along these same lines, also. I
> offered my layperson's advice in that context.
>
> >Here is a paper which will demonstrate there is "quite a bit of
> >controversy" over legality of 97 and 15 on reservations:
> >http://www.fcc.gov/sptf/files/0801fcc.pdfI read the above transcript you
provided. I note with interest that my
> friend, fellow ham, and Usenet peer Carl Stevenson (WK3C) was a member

> of this workshop. I'd certainly defer to his technical expertise.
> However, the gist I got from the transcript, and from asking legal
> experts, is that case law is mixed on the subject of whether what
> happens on a reservation is strictly an internal, tribal matter. That
> no one present at the workshop wanted to venture an authoritative answer
> doesn't meant that there aren't those involved in enforcement who could
> give one. Radio transmitters and casinos are given as principal
> examples where case law, practice, and jurisdictional agreements go
> against the assertion that on a reservation, U.S. law does not apply.
>
> >Course, with some, an amateur license immediately makes them an
> >authority in all areas ...It was a question about amateur radio, asked in an
amateur radio
> newsgroup. I suggested that he seek expert advice, such as that
> summarized at the ARRL TIS web site I linked previously. No more, and
> no less.
>
> >Warmest regards,
> >JS(*) I did ask one of the experts in communications law that I know
> personally. He offered the following observations:
>
>   "I would add something to the extent that you have been advised
>   by a communications attorney with over 50 years' experience in
>   FCC regulatory matters that unless there is a specific treaty
>   granting a tribe authority to regulate amateur radio
>   transmissions on a reservation, and there isn't, FCC law and
>   jurisdiction prevail. There are agreements giving tribes
>   authority to determine who may operate a broadcast station
>   from a reservation, but the FCC must regulate the technical
>   parameters (frequency, power, location) to be observed and
>   grant the callsign and make all necessary international
>   notifications.
>
>   Similarly, in international waters or airspace, the country of
>   registration of the vessel or aircraft retains jurisdiction,
>   and any country may lodge a complaint of violation of the
>   International Radio Regulations with the country of registration
>   if that is the case.   If the vessel or aircraft is 'unregistered',
>   any country has the authority to blast it out of the water or the
>   air, although that is a drastic measure. The International
>   Radio Regulations do, however. oblige all countries to not
>   condone or support any radio (or TV) broadcasting from
>   international waters or airspace."
>
> As this seems to be drifting into a *.policy area, and not *.homebrew,
> I've set followups as appropriate. Feel free to override my default if
> you must.
>
> - --
> Paul W. Schleck, K3FU
> pschl...@novia.nethttp://www.novia.net/~pschleck/
> Finger pschl...@novia.net for PGP Public Key
>

```
> -----BEGIN PGP SIGNATURE-----
> Version: GnuPG v1.4.5 (SunOS)
>
> iD8DBQFFuuMd6Pj0az779o4RAidgAJ4tmvrsIgefuGREQz/Eqw20LljowACfRg1f
> glmhM6RbiJJcbgT3quj9GmM=
> =Dai7
> -----END PGP SIGNATURE-----
```

```
From 1238451755503591586
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr17.news.prodigy.net.POSTED!35cb456c!not-for-mail
From: "N9WOS" <N9WOS@nobug.sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
Subject: Re: Where does part 97 end and part 15 begin?
Lines: 75
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <B2Ouh.1652$4H1.913@newssvr17.news.prodigy.net>
NNTP-Posting-Host: 66.72.68.39
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr17.news.prodigy.net 1169927457 ST000 66.72.68.39 (Sat, 27 Jan 2007
14:50:57 EST)
NNTP-Posting-Date: Sat, 27 Jan 2007 14:50:57 EST
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
FKPO@MC@OPUAW]TX]BCBNWX@RJ_XPDLMN@GZ_GYO^BTBTSUBYFWEAE[YJLYPIWKHTFCMZKVMB^[Z^DOBRV
VMOSPFHNSYXVDIE@X\BUC@GTSX@DL^GKFFHQCCE\G[JJBMYDYIJCZM@AY]GNGPJD]YNNW\GSX^GSCKHA[]
@CCB\[@LATPD\L@J\\PF]VR[QPJN
Date: Sat, 27 Jan 2007 14:50:56 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8808
```

> I had thought to start an unlicensed micro-power code practice net
> whose range would be limited to about a 30 mile radius, which is about
> the size of the local reservation right next to the school.
>
> What I want to do is provide each kid with a popcorn CW transceiver for
> the colorburst frequency (3579 khz), a key, a short random wire, and a
> battery.   That way they could practice amongst themselves with
> myself as occasional net control.
>
> My question is this: so long as final output to the antenna is within
> the requirement of part 15 unlicensed operation, is part 15 unlicensed

> operation allowed within a band normally governed under part 97?
> Part 15 operation would easily cover a 30 mile radius on 80M.
>
> If no, I'll run the net under part 15 on the edge of the AM band near 160M.
>
> Thanks in advance,
>
> The Eternal Squire
>

I have been thinking about this for a while before making this reply.

I would strongly suggest looking at the lowfer band.
160Kc to 190Kc
The limitations are relatively straight forward.
Maximum length of feed line, and antenna are 15meters.
Maximum power input to the final amp stage is 1W.
No other real limitations besides the fact that out of band emissions have to be below a specific point.

That is about a 50 foot long antenna. There isn't much of a chance that they will try to string one up longer than that, unless they were really industrious.
And they can learn about antenna loading, to get a better transmitted signal/range.

The one watt input power level is easy to determine. If the input is 10V then adjust the current to a maximum of 100mA.

They can use any mode of communication they want. CW, AM, SSB, FM, PSK31, BPSK, MFSK
The sky is the limit as for as modes.

If they have computers, most of the digital modes can be implemented with soundcard based communications software that is available as freeware
Look up "MULTIPSK"

They can set up beacons for propagation checks, or talk to each other in real time.

30 miles is an easy distance to reach with basic loaded antennas. Especially with PSK31 and CW.

It will allow them to learn how to build receiving antennas.

And if they can't reach, or hear someone on the other side of the reservation, then it will allow them to learn the basics of traffic handling by the stations in the middle relaying information from one station to another.

It will also teach them the basics of the narrower bandwidth/greater range relationship. With the low bandwidth BPSK, PSK31 modes, they will easily communicate across the reservation even if they can barely hear each other on voice.

You can either get kit equipment for receiving or transmitting, which is widely available on line. Or you can design and build your own.

If they are lucky, they may even hear stations, and beacons from hundreds of miles away. Or even thousands. There is nothing like the thrill of DX.

```
From 4488927962325377286
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<B2Ouh.1652$4H1.913@newssvr17.news.prodigy.net>
In-Reply-To: <B2Ouh.1652$4H1.913@newssvr17.news.prodigy.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 61
Message-ID: <M5Ouh.184$cl.257150@news.sisna.com>
Date: Sat, 27 Jan 2007 11:54:21 -0800
NNTP-Posting-Host: 66.81.62.186
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169927660 66.81.62.186 (Sat, 27 Jan 2007 12:54:20 MST)
NNTP-Posting-Date: Sat, 27 Jan 2007 12:54:20 MST
Organization: Internet News Service
X-Received-Date: Sat, 27 Jan 2007 12:54:20 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8809
```

N9WOS wrote:

>
> I have been thinking about this for a while before making this reply.
>
> I would strongly suggest looking at the lowfer band.
> 160Kc to 190Kc
> The limitations are relatively straight forward.
> Maximum length of feed line, and antenna are 15meters.
> Maximum power input to the final amp stage is 1W.
> No other real limitations besides the fact that out of band emissions have
> to be below a specific point.
>

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> will try to string one up longer than that, unless they were really
> industrious.
> And they can learn about antenna loading, to get a better transmitted
> signal/range.
>
> The one watt input power level is easy to determine. If the input is 10V
> then adjust the current to a maximum of 100mA.
>
> They can use any mode of communication they want. CW, AM, SSB, FM, PSK31,
> BPSK, MFSK
> The sky is the limit as for as modes.
>
> If they have computers, most of the digital modes can be implemented with
> soundcard based communications software that is available as freeware
> Look up "MULTIPSK"
>
> They can set up beacons for propagation checks, or talk to each other in
> real time.
>
> 30 miles is an easy distance to reach with basic loaded antennas. Especially
> with PSK31 and CW.
>
> It will allow them to learn how to build receiving antennas.
>
> And if they can't reach, or hear someone on the other side of the
> reservation, then it will allow them to learn the basics of traffic handling
> by the stations in the middle relaying information from one station to
> another.
>
> It will also teach them the basics of the narrower bandwidth/greater range
> relationship. With the low bandwidth BPSK, PSK31 modes, they will easily
> communicate across the reservation even if they can barely hear each other
> on voice.
>
> You can either get kit equipment for receiving or transmitting, which is
> widely available on line. Or you can design and build your own.
>
> If they are lucky, they may even hear stations, and beacons from hundreds of
> miles away. Or even thousands. There is nothing like the thrill of DX.
>
>

Yanno, that is damn good thinking. I haven't played in the lowfer freqs
for ages.

Regards,
JS

From 307776125293087028
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: "RST Engineering" <jim@rstengineering.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<epc0uv$ato$1@aioe.org> <1169827670.728125.155410@a75g2000cwd.googlegroups.com>
Subject: Re: Where does part 97 end and part 15 begin?
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <1fOuh.186$Fo.269432@news.sisna.com>
Date: Sat, 27 Jan 2007 12:03:51 -0800
NNTP-Posting-Host: 70.41.242.222
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169928253 70.41.242.222 (Sat, 27 Jan 2007 13:04:13 MST)
NNTP-Posting-Date: Sat, 27 Jan 2007 13:04:13 MST
Organization: Internet News Service
X-Received-Date: Sat, 27 Jan 2007 13:04:13 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8810
```

If (mind you, IF) I was going to make a device that would bootleg a signal over a 30 mile range, the LAST frequency I would pick is one that had a real good chance of messing up somebody's color TV set in that radius.

Google on Mouser, crystal, and you will get HUNDREDS of cheap crystals that aren't going to be messing up anybody's home entertainment devices. You might also google for "emergency frequency" to keep away from the Coast Guard's "hit the red button" frequencies.

If it twer me, I'd probably find a quiet spot on 80 meters for the little rugrats.

Jim

<eternalsquire@comcast.net> wrote in message
news:1169827670.728125.155410@a75g2000cwd.googlegroups.com...
> John,
>
> So, say I had a CW oscillator on the colorburst frequency.

```
From 8206502224115860879
X-Google-Thread: fc2a5,a8cc406be44a122c
X-Google-Attributes: gidfc2a5,public
```

X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!postnews.google.com!h3g2000cwc.googlegroups.com!not-for-mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Low Noise VFO
Date: 27 Jan 2007 12:23:14 -0800
Organization: http://groups.google.com
Lines: 27
Message-ID: <1169929394.711680.15850@h3g2000cwc.googlegroups.com>
References: <1169083418.423858.144080@11g2000cwr.googlegroups.com>
NNTP-Posting-Host: 207.200.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1169929406 2302 127.0.0.1 (27 Jan 2007 20:23:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Jan 2007 20:23:26 +0000 (UTC)
In-Reply-To: <1169083418.423858.144080@11g2000cwr.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-ntc-te06.proxy.aol.com[CFC8721E] (Prism/1.1.9), HTTP/1.1 cache-ntc-aa07.proxy.aol.com[CFC8740B] (Traffic-Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: h3g2000cwc.googlegroups.com; posting-host=207.200.116.11;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:8811

On Jan 17, 5:23=EF=BF=BDpm, "llobdelljr" <llobdel...@afo.net> wrote:
> I was surfing the net and found a reference to an unusual low phase
> noise LC VFO that uses two inductors. =A0Unfortunately it seems I forgot
> to bookmark the site. =A0Can anyone help?
>
> Thanks,
> Larry Lobdell Jr.

This may not be what you are looking for but it is a clever way to make a Hartley oscillator using two inductors without any coupling between them:

"Hartley oscillator requires no coupled inductors," by Jim McLucas, EDN Design Ideas, issue of 26 October 2006. The example is an 18 MHz oscillator using dual-gate CMOS FETS but the principle of transforming coupled inductors to two individual inductors would be sound for any active device.

It is available at Design Ideas Archive at www.ednmag.com.

   LenAnderson@ieee.org

```
From 5894920642285786703
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr21.news.prodigy.net.POSTED!35cb456c!not-for-
mail
From: "N9WOS" <N9WOS@nobug.sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<B2Ouh.1652$4H1.913@newssvr17.news.prodigy.net>
Subject: Re: Where does part 97 end and part 15 begin?
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <NTOuh.38139$Gr2.34165@newssvr21.news.prodigy.net>
NNTP-Posting-Host: 66.72.68.39
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr21.news.prodigy.net 1169930861 ST000 66.72.68.39 (Sat, 27 Jan 2007
15:47:41 EST)
NNTP-Posting-Date: Sat, 27 Jan 2007 15:47:41 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
OXZAWU[DFB^UCWDYIBHZOWP@YZOZ@GXOXB]T]_MIJQR@EPIB_VUKAH_[MTX\IS[K[NGYJJFNOFZR_G[BUN
TAOQLFE^TEHRPI]PZZRP_BMDSFQFL_]CBHXRWCMDCUZAZN@D_AKMNLEI]MWHCSXL^]NNC__CZFGSGHYYXW
PFG@SCAVA]\FT\@B\RDGENSUQS^M
Date: Sat, 27 Jan 2007 20:47:41 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8812
```

> You can either get kit equipment for receiving or transmitting, which is
> widely available on line. Or you can design and build your own.

Maybe I should clarify one of my statements before someone calls me stupid.

I mean easily modifiable equipment is widely available online.
It isn't sold for Lowfer operation.

Most heterodyne and direct conversion based short wave, receiving kits can
be modified over to the LF band from 160 to 190kc

On a 455kc heterodyne receiver, push the local oscillator down to 615 to 645
kc, and put a band pass network on the input peaked to the lowfer band, and
you are done.

Same thing can be done for SSB transmitter kits that use a fixed transmit IF

```
From -6686369761102118789
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<B2Ouh.1652$4H1.913@newssvr17.news.prodigy.net>
<NTOuh.38139$Gr2.34165@newssvr21.news.prodigy.net>
In-Reply-To: <NTOuh.38139$Gr2.34165@newssvr21.news.prodigy.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 33
Message-ID: <CfPuh.191$HF.332905@news.sisna.com>
Date: Sat, 27 Jan 2007 13:13:08 -0800
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X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169932386 66.81.62.186 (Sat, 27 Jan 2007 14:13:06 MST)
NNTP-Posting-Date: Sat, 27 Jan 2007 14:13:06 MST
Organization: Internet News Service
X-Received-Date: Sat, 27 Jan 2007 14:13:06 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8813
```

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>

Only thing is, such low power xmitters, if designed and tuned to a "quiet" portion of the mw band allows anyone with a standard am radio to tune into and participate in ...

Rip apart any old transistor radio and you have the necessary parts for the xmitter ...

VLF receivers can be a tad bit expensive ... however, most am radios would easily be modified to VLF ... the patience of the elmer would be the only resource in question.

Regards,
JS

From -8240383177943982005
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
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border2.nntp.dca.giganews.com!nntp.giganews.com!novia!novia!
sequencer.newscene.com!not-for-mail
From: Paul W. Schleck <pschleck@novia.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 27 Jan 2007 15:20:02 -0600
Organization: Novia Internetworking, http://www.novia.net/
Lines: 65
Message-ID: <45bbc1b9$0$171$540ea2cf@novia.net>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<45ba4491$0$171$540ea2cf@novia.net> <XTruh.23$0B6.97376@news.sisna.com>
<45bae4f5$0$172$540ea2cf@novia.net>
<1169925395.945074.190900@h3g2000cwc.googlegroups.com>
User-Agent: nn/6.6.3
Xref: g2news2.google.com rec.radio.amateur.homebrew:8814

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

In <1169925395.945074.190900@h3g2000cwc.googlegroups.com>
eternalsquire@comcast.net writes:

>Paul,

>Its my opinion, the fact that these childrens' homes are on Navajo
>Land is legally irrelevant.

I agree. I was just rebutting the bad advice given here that you should try to focus on legal loopholes or otherwise "stretch" the law in some way. Especially when that advice is based on an incomplete or inexpert knowledge of the law, whose misunderstanding could have expensive consequences. I know that hams in general are an honorable lot, and as a whole would not attempt to think or act that way. I'm glad that we are thinking along the same lines. Which is one of the reasons that I believed that you were sincere, and a licensed amateur radio operator.

>>From what I understand, Native territories are jurisdictions having
>roughly equal standing
>to the states, but just like states are still subject to the
>Constitution and to Acts of Congress,
>such as the one authorizing the FCC and parts 15 and 97.

Treaties with Native American tribes, and resulting laws and inter-jurisdictional agreements bear out that viewpoint, according to the expert that I consulted, and quoted in my previous post.

So, the one remaining question would appear to be your original one, which was where does Part 15 leave off and Part 97 begin? I think that the ARRL TIS site that I linked previously is a good place to start. I invite everyone to consider the excellent advice offered at that site, including links to FCC documents, independent of prejudicial dislike of the involved sources or personalities.

>As for using a pseudonym, I use that rather than my name or call for
>obvious reasons of
>personal safety for myself and my family.

That's too bad that Usenet has degraded to the point that we actually fear for the safety of ourselves and our families when we participate here, and merely state our intentions to operate lawfully, and not tolerate unlawful behavior. I'm honestly surprised that these are controversial viewpoints in some quarters.

Personally, in nearly 17 years of participating on-line, I've never felt the need to use a pseudonym, or feared for my safety. However, I respect the reasonable personal choices of others in this regard.

- --
73, Paul W. Schleck, K3FU
pschleck@novia.net
http://www.novia.net/~pschleck/
Finger pschleck@novia.net for PGP Public Key

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (SunOS)

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From 4573826957557095194

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Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
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feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<45ba4491$0$171$540ea2cf@novia.net>    <XTruh.23$0B6.97376@news.sisna.com>
<45bae4f5$0$172$540ea2cf@novia.net>
<1169925395.945074.190900@h3g2000cwc.googlegroups.com>
<45bbc1b9$0$171$540ea2cf@novia.net>
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Lines: 19
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Date: Sat, 27 Jan 2007 14:08:38 -0800
NNTP-Posting-Host: 66.81.62.186
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X-Trace: news.sisna.com 1169935716 66.81.62.186 (Sat, 27 Jan 2007 15:08:36 MST)
NNTP-Posting-Date: Sat, 27 Jan 2007 15:08:36 MST
Organization: Internet News Service
X-Received-Date: Sat, 27 Jan 2007 15:08:36 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8815
```

Paul W. Schleck wrote:

```
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>
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> 73, Paul W. Schleck, K3FU
> pschleck@novia.net
> http://www.novia.net/~pschleck/
> Finger pschleck@novia.net for PGP Public Key
```

Just goes to show ya, the world is still left with a lot of people who are of a good nature and would not wish harm on anyone ...

Regards,
JS

```
From -7656627515484114236
X-Google-Thread: fc2a5,43906642a86de17a
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X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
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From: "N9WOS" <N9WOS@nobug.sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<B2Ouh.1652$4H1.913@newssvr17.news.prodigy.net>
<NTOuh.38139$Gr2.34165@newssvr21.news.prodigy.net>
<CfPuh.191$HF.332905@news.sisna.com>
Subject: Re: Where does part 97 end and part 15 begin?
Lines: 108
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
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NNTP-Posting-Host: 66.72.68.65
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X-Trace: newssvr23.news.prodigy.net 1169936457 ST000 66.72.68.65 (Sat, 27 Jan 2007 17:20:57 EST)
NNTP-Posting-Date: Sat, 27 Jan 2007 17:20:57 EST
Organization: AT&T http://yahoo.sbc.com
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@CCB\[@LATPD\L@J\\PF]VR[QPJN
Date: Sat, 27 Jan 2007 17:20:56 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8816

> Only thing is, such low power xmitters, if designed and tuned to a
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> Rip apart any old transistor radio and you have the necessary parts for
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The first thing that came into my mind when I read that is.
Is there even such thing as a "quiet portion of the MW band"?

The normal AM band has so many multiKW stations running on it that it is
heavily polluted with RF noise.
The general coverage receiver I have, has a 200 Foot long antenna hooked to

it.
Night or day, It is hard to find a broadcast channel that isn't giving a signal reading running from S5 to S9 even when you can't hear any traces of a broadcast signal.
There is so many distant stations being heard at once that it turns into indistinguishable noise.

And if you do catch a quiet channel, it only last for a few minutes, or hours until propagation changes, and the noise level comes back up to normal.

Once you drop off the edge of the AM band, the average noise level drops down to almost nothing within a few Kc of the edge.

After you get past a certain grade of radio and RX antenna, you will not gain any improvement because of the base noise level of the band. They would basically be reduced to fighting the TX side of things, to try and stay above the average noise level.

Can you say "CB a few years ago"?

The only reason the horrible noise level isn't apparent on most AM receivers sold in stores, is because they are so insensitive that they can't hear even relatively loud signals. That is why I almost consider it a waste of money to buy a standard AM/FM radio that is currently on the market to listen to AM. I have built crystal radios that are more sensitive on AM than some of the high dollar AM/FM radios I have used.

A lot of AM/FM radios I see any more, don't even have an IF section, with IF transformers. If you are lucky, they have a 455kc crystal filter, in a section that can barely be called a IF section.

You are taking a big handicap when you stay on the AM band, and use a standard off the shelf AM radio.

You have to use a radio that is designed for SW use, where the average noise levels are a lot lower, better selectivity, and the radio has a higher total gain from antenna to speaker.

If I was designing a simple software IF radio for them to use with their computer, Or a basic SSB voice rig, here is the basic layout i would use.

The IF for receive and TX would be 455Kc using off the shelf AM IF cans.

TX side.
450Kc or 460Kc crystal feeding a balanced modulator.
Soundcard driving the other input of the balanced modulator.
Feed the output of the modulator through an amplifier to an off the shelf 455Kc center frequency, 10Kc bandwidth, crystal filter used in the IF of standard AM receivers.

Feed that into a mixer being driven by a 630kc local oscillator.
That will yield a 170Kc to 180kc coverage signal that you can feed into a

band pass filter.
Feed the band pass filter into the final amp.
Feed the final amp into the antenna coupler/ second band pass filter, and then to the antenna.

That will allow you to use about 1/3 of the entire lowfer band without changing any frequency in the transmitter.

Just set up the receiver with the exact opposite of the TX.
And you can use the TX crystal oscillators to feed the receiver, so the RX frequency will be a mirror of the TX one.

The antenna coming in to a band pass filter.
One stage of RF amp if desired.
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Run the output of the mixer into an IF strip, with an identical 455Kc crystal filter.
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Feed the output of a detector into an audio amp, then to the input of the sound card.
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From -740518497287738063
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<B2Ouh.1652$4H1.913@newssvr17.news.prodigy.net>
<NTOuh.38139$Gr2.34165@newssvr21.news.prodigy.net>
<CfPuh.191$HF.332905@news.sisna.com>
<dfQuh.1443$MN.506@newssvr23.news.prodigy.net>

In-Reply-To: <dfQuh.1443$MN.506@newssvr23.news.prodigy.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
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X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169937036 66.81.62.186 (Sat, 27 Jan 2007 15:30:36 MST)
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Organization: Internet News Service
X-Received-Date: Sat, 27 Jan 2007 15:30:37 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8817

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> 190Kc coverage that would work fine for a receiver..
>
>
>

You have presented the above well, I am in agreement ...

The world is always a compromise between what one wants and what is
actually to be had.

Too bad there are none of the dollar-ninety-eight kits out there--like
there was when I as a boy. (or tons of old military equipment to be had
for a song)

Warmest regards,
JS

From 1715165315606024516
X-Google-Thread: 1118be,4fb18e481f5a7392,start
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v33g2000cwv.googlegroups.com!not-for-mail
From: radioanarchy@yahoo.com
Newsgroups: sci.electronics.components,rec.radio.amateur.homebrew
Subject: Triad F-93X power supply transformer info. ? ?
Date: 27 Jan 2007 14:45:10 -0800
Organization: http://groups.google.com
Lines: 6
Message-ID: <1169937910.315781.277620@v33g2000cwv.googlegroups.com>
NNTP-Posting-Host: 67.54.128.147
Mime-Version: 1.0
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Jan 2007 22:45:26 +0000 (UTC)
User-Agent: G2/1.0
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Complaints-To: groups-abuse@google.com
Injection-Info: v33g2000cwv.googlegroups.com; posting-host=67.54.128.147;
   posting-account=e8wzcg0AAADtWQIKu0akZdsQFERkwOLB
Xref: g2news2.google.com sci.electronics.components:8919
rec.radio.amateur.homebrew:8818

have an old, but never used Triad F-93X transformer.
but have no data sheet. any info out there?
and does anybody need it? ?

cleaning out the "junk box" here.

From 6046904444137576833
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!newsfeed.stanford.edu!
news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 27 Jan 2007 22:49:15 GMT
Organization: The National Capital FreeNet
Lines: 55
Message-ID: <epgktb$2ka$1@theodyn.ncf.ca>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<B2Ouh.1652$4H1.913@newssvr17.news.prodigy.net>
<NTOuh.38139$Gr2.34165@newssvr21.news.prodigy.net>
<CfPuh.191$HF.332905@news.sisna.com>
<dfQuh.1443$MN.506@newssvr23.news.prodigy.net>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1169938155 2698 134.117.136.48 (27 Jan 2007 22:49:15 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 27 Jan 2007 22:49:15 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8819

"N9WOS" (N9WOS@nobug.sbcglobal.net) writes:

> The first thing that came into my mind when I read that is.
> Is there even such thing as a "quiet portion of the MW band"?
>
> The normal AM band has so many multiKW stations running on it that it is
> heavily polluted with RF noise.

The solution is actually simpler.

Since realistically the kids don't need to communicate before they actually
can, they need to receiver code practice. There is, again, ample chance
to convey the hobby to them before they pursue licenses, and once they
have licenses pretty much "anything goes" because of the very nature of

amateur radio.

The solution is to get the community involved. These are their kids, they want them to do well in the world. Presumably there is a radio station on the reserve specifically for the reservation. So get some space there to send code (obviously a code practice oscillator into the microphone input) for a bit. It could even be as simple as a few sentences every day at a fixed time, the same way Jean Sheppard wrote of getting secret messages during the "Little Orphan Annie" show. The reservation near here has bingo games on the air every Sunday night, so why shouldn't a community that is interested in the success of their young not see the point of sending some morse code over the local station?

The point isn't to give them amateur radio before the fact, it's to lure them in.

And if there's no community radio station on that reserve, then I suspect that's of more value than low power stations that may turn out to be a dud. Because a community station can do so much for the community. And one might as well get those interested students involved in the project.

A few years back, at that nearby reserve that has radio bingo, one 13 year old lamented that there was no library on the reserved. They have a library now, it carries her name. This is something that is going to last forever (or hopefully so), and is the sort of thing reserves need. Libraries are places where people can find those books about radio and electronics when they suddenly become interested, or lure them in when they stumble on such things.

Getting the kids interested in science and even specifically electronics is a good thing. Done well, it will even benefit them if they don't pursue such things later, because the teaching becomes a catalyst for other things.

But sometimes one has to look at projects and wonder if they will really make change, or if they are just neat in themselves but will actually bomb (because the kids lose interest, or because all kinds of money and resource is put it into something when there are simpler things to do the same thing).

Michael VE2BVW

```
From 5859156626364542477
X-Google-Thread: fc8b1,d7a9cdd1ef3fbf5c,start
X-Google-Thread: fc2a5,d7a9cdd1ef3fbf5c,start
X-Google-Attributes: gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q2g2000cwa.googlegroups.com!not-for-
mail
From: radioanarchy@yahoo.com
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: FS:  5 position band switch, Mallory p/n 1345L
```

```
Date: 27 Jan 2007 15:48:03 -0800
Organization: http://groups.google.com
Lines: 13
Message-ID: <1169941683.531568.184620@q2g2000cwa.googlegroups.com>
NNTP-Posting-Host: 67.54.128.147
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1169941688 27242 127.0.0.1 (27 Jan 2007 23:48:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 27 Jan 2007 23:48:08 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q2g2000cwa.googlegroups.com; posting-host=67.54.128.147;
   posting-account=e8wzcg0AAADtWQIKu0akZdsQFERkwOLB
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7300
rec.radio.amateur.homebrew:8820

cleaning out the junk box.  make offer.  have 4 available.

never used, old Mallory 1345L    5 position, 4 sections,
2 circuits per section, wafer switches.

shaft is 2 inches long.

each switch section is 1 inch apart from each other.

in origional boxes.

will send pix and more info.



From 3374038756798950087
X-Google-Thread: fc8b1,8b61067efcc50515,start
X-Google-Thread: fc2a5,8b61067efcc50515,start
X-Google-Attributes: gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p10g2000cwp.googlegroups.com!not-for-
mail
From: radioanarchy@yahoo.com
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: FS: transmitter tube plate RF Chokes
Date: 27 Jan 2007 16:16:00 -0800
Organization: http://groups.google.com
Lines: 16
Message-ID: <1169943360.647517.17590@p10g2000cwp.googlegroups.com>
NNTP-Posting-Host: 67.54.128.147
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1169943366 31385 127.0.0.1 (28 Jan 2007 00:16:06 GMT)
X-Complaints-To: groups-abuse@google.com
```

```
NNTP-Posting-Date: Sun, 28 Jan 2007 00:16:06 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p10g2000cwp.googlegroups.com; posting-host=67.54.128.147;
   posting-account=e8wzcg0AAADtWQIKu0akZdsQFERkwOLB
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7301
rec.radio.amateur.homebrew:8821
```

cleaning out the junk box:

large RF chokes, have 25 or so available.

I measured at one time, 5 mH L with 10 ohms R.

mulit-wound with 4 different sections, on ceramic form, with metal
mounts with holes separated by 3.125 inches.....

will send picture if interested.

for the price of a beer, and postage, one is yours...
make an offer for several.

. .

```
From 5523768990782453638
X-Google-Thread: fc2a5,8b61067efcc50515
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q2g2000cwa.googlegroups.com!not-for-
mail
From: radioanarchy@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FS: transmitter tube plate RF Chokes
Date: 27 Jan 2007 16:35:14 -0800
Organization: http://groups.google.com
Lines: 16
Message-ID: <1169944514.591719.282370@q2g2000cwa.googlegroups.com>
References: <1169943360.647517.17590@p10g2000cwp.googlegroups.com>
NNTP-Posting-Host: 67.54.128.147
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1169944532 5272 127.0.0.1 (28 Jan 2007 00:35:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 28 Jan 2007 00:35:32 +0000 (UTC)
In-Reply-To: <1169943360.647517.17590@p10g2000cwp.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
```

Injection-Info: q2g2000cwa.googlegroups.com; posting-host=67.54.128.147;
   posting-account=e8wzcg0AAADtWQIKu0akZdsQFERkwOLB
Xref: g2news2.google.com rec.radio.amateur.homebrew:8822

.

OK, here is a picture.

http://www.angelfire.com/de/RadioAnarchy/images/rfchoke.JPG

surely somebody can use one of these in their boatanchor
transmitter. :-)

From 2967923700749836794
X-Google-Thread: 1118be,4fb18e481f5a7392
X-Google-Thread: fc2a5,4fb18e481f5a7392
X-Google-Attributes: gid1118be,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-sjc-01!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: Peter Bennett <peterbb@somewhere.invalid>
Newsgroups: sci.electronics.components,rec.radio.amateur.homebrew
Subject: Re: Triad F-93X power supply transformer info. ? ?
Date: Sat, 27 Jan 2007 17:11:03 -0800
Organization: Home for the Hopelessly Helpful
Message-ID: <untnr21gott5vkndijuhu0npcuhui9fm58@news.supernews.com>
References: <1169937910.315781.277620@v33g2000cwv.googlegroups.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 19
Xref: g2news2.google.com sci.electronics.components:8922
rec.radio.amateur.homebrew:8823

On 27 Jan 2007 14:45:10 -0800, radioanarchy@yahoo.com wrote:

>have an old, but never used Triad F-93X transformer.
>but have no data sheet. any info out there?
>and does anybody need it? ?
>
>cleaning out the "junk box" here.

Go to http://www.triadmagnetics.com and search for that part number.

--
Peter Bennett, VE7CEI
peterbb4 (at) interchange.ubc.ca
new newsgroup users info : http://vancouver-webpages.com/nnq
GPS and NMEA info: http://vancouver-webpages.com/peter
Vancouver Power Squadron: http://vancouver.powersquadron.ca

```
From 4163877582389574179
X-Google-Thread: fc2a5,4fb18e481f5a7392
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l53g2000cwa.googlegroups.com!not-for-
mail
From: radioanarchy@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Triad F-93X power supply transformer info. ? ?
Date: 27 Jan 2007 17:56:39 -0800
Organization: http://groups.google.com
Lines: 5
Message-ID: <1169949399.025163.86840@l53g2000cwa.googlegroups.com>
References: <1169937910.315781.277620@v33g2000cwv.googlegroups.com>
   <untnr21gott5vkndijuhu0npcuhui9fm58@news.supernews.com>
NNTP-Posting-Host: 67.54.128.147
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1169949408 16438 127.0.0.1 (28 Jan 2007 01:56:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 28 Jan 2007 01:56:48 +0000 (UTC)
In-Reply-To: <untnr21gott5vkndijuhu0npcuhui9fm58@news.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l53g2000cwa.googlegroups.com; posting-host=67.54.128.147;
   posting-account=e8wzcg0AAADtWQIKu0akZdsQFERkwOLB
Xref: g2news2.google.com rec.radio.amateur.homebrew:8824
```

OK, thanks Peter.
the data is there on this transformer...

```
From -9315610508733305276
X-Google-Thread: fc2a5,fa4494d5ffcc5bec,start
X-Google-Attributes: gidfc2a5,public
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Schlecks' Schlock!
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 24
Message-ID: <xAXuh.282$7b1.474345@news.sisna.com>
Date: Sat, 27 Jan 2007 22:41:40 -0800
NNTP-Posting-Host: 66.81.63.188
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169966493 66.81.63.188 (Sat, 27 Jan 2007 23:41:33 MST)
NNTP-Posting-Date: Sat, 27 Jan 2007 23:41:33 MST
Organization: Internet News Service
X-Received-Date: Sat, 27 Jan 2007 23:41:33 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8825

To Whom It May Concern:

Just so you have a complete picture of Paul W. Schleck, I took the following from one of his posts in news.groups.proposals:

"Mark Morgan, KB9RQZ, is correct that all of our proposed moderators and consultants hold the highest class of Amateur Radio Service license in their countries (Amateur Extra for the U.S. team members, Class A or similar in the case of Jack Cook, who holds both UK and Australian licenses). However, that doesn't mean that we would be judgemental or unfair to other classes of license. We would certainly be open to adding moderators to our team that hold other classes of license. We will certainly decline articles that are disrespectful to or prejudicial against other participants for any reason, including license class. We would prefer to judge ideas, and take posts at face value, rather than prejudge individuals and credentials in a vacuum."

Now that just speaks volumes about this man, his caliber, his "ethical standards", etc. Now, doesn't it?

Gawd! I feel sick ...

Warmest regards,
JS

From 7211042785933208526
X-Google-Thread: fc2a5,fa4494d5ffcc5bec
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!

```
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Schlecks' Schlock!
References: <xAXuh.282$7b1.474345@news.sisna.com>
In-Reply-To: <xAXuh.282$7b1.474345@news.sisna.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 23
Message-ID: <JIXuh.284$mz6.18451@news.sisna.com>
Date: Sat, 27 Jan 2007 22:50:24 -0800
NNTP-Posting-Host: 66.81.63.188
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169967017 66.81.63.188 (Sat, 27 Jan 2007 23:50:17 MST)
NNTP-Posting-Date: Sat, 27 Jan 2007 23:50:17 MST
Organization: Internet News Service
X-Received-Date: Sat, 27 Jan 2007 23:50:17 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8826

John Smith I wrote:
> To Whom It May Concern:
>
> Just so you have a complete picture of Paul W. Schleck, I took the
> following from one of his posts in news.groups.proposals:
> ...
> Now that just speaks volumes about this man, his caliber, his "ethical
> standards", etc.  Now, doesn't it?
>
> Gawd!  I feel sick ...
>
> Warmest regards,
> JS

Unbelievable, is there ANYONE here who believes Mr. Schlock... err, Mr.
Schleck would be "fair" and just to ALL?  That he would consider
ANYTHING other than his own petty gripes and bitches?  If so, step right
up here to defend the man, I am waiting ...

My gawd, the man is so crooked he makes my dogs hind legs look straight!

Regards,
JS


From 7568604293068582428
X-Google-Thread: 10bf43,cf5adc986f050391
X-Google-Thread: 107ada,cf5adc986f050391
X-Google-Thread: fcc6e,cf5adc986f050391
X-Google-Thread: fc8b1,cf5adc986f050391
X-Google-Thread: fc2a5,fa4494d5ffcc5bec
```

X-Google-Attributes: gid10bf43,gid107ada,gidfcc6e,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.amateur.antenna,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: Schlecks' Schlock!
References: <VyXuh.281$hb1.484595@news.sisna.com>
In-Reply-To: <VyXuh.281$hb1.484595@news.sisna.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 60
Message-ID: <UlZuh.286$HF.332905@news.sisna.com>
Date: Sun, 28 Jan 2007 00:42:34 -0800
NNTP-Posting-Host: 66.81.63.188
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1169973748 66.81.63.188 (Sun, 28 Jan 2007 01:42:28 MST)
NNTP-Posting-Date: Sun, 28 Jan 2007 01:42:28 MST
Organization: Internet News Service
X-Received-Date: Sun, 28 Jan 2007 01:42:28 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.policy:63704 rec.radio.amateur.misc:28606 rec.radio.amateur.antenna:24763 rec.radio.amateur.boatanchors:7308 rec.radio.amateur.homebrew:8827

Here is what my response to Mr. Schleck would be on his proposed moderated newsgroup:

Mr. Paul W. Schleck:

I would question your ability to be a fair and just moderator. I have participated in the rec.radio.amateur.??? newsgroups, I have witnessed your abilities and goals.

There, I have seen you and your extra class henchmen attempt to constantly steer the course of its' flow, intimidation and threats have often been your tools. I have watched you and others look down upon other amateurs who will now be allowed to take a "No Code Amateur Exam." In no way have I ever seen you be even close to being "fair" or "just" in your opinions, judgments, statements, etc. I have heard many in that group call the present amateur exams "dumbed down."

Here, you have blatantly lied as to your purposes. You seek a forum where a very limited band of ideas, concepts, beliefs and discussion can take forth. You seek to establish a "class based newsgroup", this class system will VERY MUCH depend on the ancient art of morse code and the amateur exam.

If any here doubt, they only have to sift though the old posts and check past posts of you and those you name as would be-moderators and they will know. What I say, I say with great belief.

You wish to establish a "masonic temple type of brotherhood" here in the public newsgroups. You and a few of your cronies wish to establish tight and strict control over this group. And, from what I can see and guess to your goals, you do this SOLELY for the purpose of stroking your own egos.

Many of the "weirdos", hecklers and vulgar individuals in the other amateur groups are due to you and those sharing your same views and using your "street smart" methods--in effect, your "control freak" attitude and "better-than-thou" stance has created them.

It would serve justice if you were forced to stay and learn to "get along and play well" with the other "children."

Your words show a fine demonstration of stealth and deception; I don't believe I have ever seen a better example than you have presented to us here. I certainly would nominate you for the "Silver Tongue Award."

However, I would certainly NOT vote to allow you to slink and sneak off from the tragedy you have helped to create.

Although you make this request and proposal out of your personal need to feed your ego, and surround yourself with those who would feed your ego for you, and "live in your own little world", I think it would be a crime to allow you to do so.

The potential you have to abuse this proposed-moderated newsgroup to the detriment of others demands it should not be allowed ... I for one would vote NO, but then, you already knew that ...

Regards,
John Smith I

From 5148971879186338976
X-Google-Thread: fc2a5,dfc62841777e446a,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.nask.pl!
news.nask.org.pl!news.cyf-kr.edu.pl!agh.edu.pl!news.agh.edu.pl!news.onet.pl!not-for-mail
From: MAc <mac_dx@tosiewytnie.poczta.onet.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: DC RX PCB wanted
Date: Sun, 28 Jan 2007 11:48:42 +0100
Organization: x
Lines: 4
Message-ID: <ephv2a$gan$1@news.onet.pl>

Reply-To: mac_dx@tosiewytnie.poczta.onet.pl
NNTP-Posting-Host: gns26.internetdsl.tpnet.pl
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-2; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.onet.pl 1169981330 16727 83.3.96.26 (28 Jan 2007 10:48:50 GMT)
X-Complaints-To: usenet@news.onet.pl
NNTP-Posting-Date: Sun, 28 Jan 2007 10:48:50 +0000 (UTC)
X-Sender: tziRau1SlJeRbF6OI/pJQplh44CxR6pL
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8828

I am looking for pcb template for little 80m DC receiver based on ne602
and lm386. (something like modified mrx40)

MAc

From 452916904957181680
X-Google-Thread: 10bf43,cf5adc986f050391
X-Google-Thread: 107ada,cf5adc986f050391
X-Google-Thread: fcc6e,cf5adc986f050391
X-Google-Thread: fc8b1,cf5adc986f050391
X-Google-Thread: fc2a5,fa4494d5ffcc5bec
X-Google-Attributes: gid10bf43,gid107ada,gidfcc6e,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 28 Jan 2007 08:10:42 -0600
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.amateur.antenna,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
References: <VyXuh.281$hb1.484595@news.sisna.com>
<UlZuh.286$HF.332905@news.sisna.com>
Subject: Re: Schlecks' Schlock!
Date: Sun, 28 Jan 2007 09:10:21 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <Rt2dnUF01_x_MyHYnZ2dnUVZ_v6tnZ2d@comcast.com>
Lines: 70
NNTP-Posting-Host: 68.61.216.97
X-Trace: sv3-
HDfSKyhNolqq3fyaEWb+lfG0A7WyTGQZwD1QbKoiBco0R0OS1ZId977TWrlE8XukQvQxhDJjkR8yt7Y!
VaampN3MZuE5z6I+VzcULe54ygDvMcQTlA+438l5buVJxHbu0DfsDwDGATbri6jFXwLfTpG3ecFx!
GISgOh2Pao/tQiE=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers

X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.policy:63739
rec.radio.amateur.misc:28627 rec.radio.amateur.antenna:24767
rec.radio.amateur.boatanchors:7313 rec.radio.amateur.homebrew:8829

"John Smith I" <assemblywizard@gmail.com> wrote in message
news:UlZuh.286$HF.332905@news.sisna.com...
>
> Here is what my response to Mr. Schleck would be on his proposed moderated
> newsgroup:
>
> Mr. Paul W. Schleck:
>
> I would question your ability to be a fair and just moderator. I have
> participated in the rec.radio.amateur.??? newsgroups, I have witnessed
> your abilities and goals.
>
> There, I have seen you and your extra class henchmen attempt to constantly
> steer the course of its' flow, intimidation and threats have often been
> your tools. I have watched you and others look down upon other amateurs
> who will now be allowed to take a "No Code Amateur Exam." In no way have I
> ever seen you be even close to being "fair" or "just" in your opinions,
> judgments, statements, etc. I have heard many in that group call the
> present amateur exams "dumbed down."
>
> Here, you have blatantly lied as to your purposes. You seek a forum where
> a very limited band of ideas, concepts, beliefs and discussion can take
> forth. You seek to establish a "class based newsgroup", this class system
> will VERY MUCH depend on the ancient art of morse code and the amateur
> exam.
>
> If any here doubt, they only have to sift though the old posts and check
> past posts of you and those you name as would be-moderators and they will
> know. What I say, I say with great belief.
>
> You wish to establish a "masonic temple type of brotherhood" here in the
> public newsgroups. You and a few of your cronies wish to establish tight
> and strict control over this group. And, from what I can see and guess to
> your goals, you do this SOLELY for the purpose of stroking your own egos.
>
> Many of the "weirdos", hecklers and vulgar individuals in the other
> amateur groups are due to you and those sharing your same views and using
> your "street smart" methods--in effect, your "control freak" attitude and
> "better-than-thou" stance has created them.
>
> It would serve justice if you were forced to stay and learn to "get along
> and play well" with the other "children."
>
> Your words show a fine demonstration of stealth and deception; I don't
> believe I have ever seen a better example than you have presented to us

> here. I certainly would nominate you for the "Silver Tongue Award."
>
> However, I would certainly NOT vote to allow you to slink and sneak off
> from the tragedy you have helped to create.
>
> Although you make this request and proposal out of your personal need to
> feed your ego, and surround yourself with those who would feed your ego
> for you, and "live in your own little world", I think it would be a crime
> to allow you to do so.
>
> The potential you have to abuse this proposed-moderated newsgroup to the
> detriment of others demands it should not be allowed ... I for one would
> vote NO, but then, you already knew that ...
>
> Regards,
> John Smith I

OK John, clean up this newsgroup so I don't have to add filters on an almost daily basis to eliminate the constant deluge of sex posts, vulgar posts, etc.

Dee, N8UZE

```
From -31903753367602716
X-Google-Thread: 10bf43,cf5adc986f050391
X-Google-Thread: 107ada,cf5adc986f050391
X-Google-Thread: fcc6e,cf5adc986f050391
X-Google-Thread: fc8b1,cf5adc986f050391
X-Google-Thread: fc2a5,fa4494d5ffcc5bec
X-Google-Attributes: gid10bf43,gid107ada,gidfcc6e,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.amateur.antenna,rec.radi
o.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: Schlecks' Schlock!
References: <VyXuh.281$hb1.484595@news.sisna.com>
<UlZuh.286$HF.332905@news.sisna.com>
<Rt2dnUF01_x_MyHYnZ2dnUVZ_v6tnZ2d@comcast.com>
In-Reply-To: <Rt2dnUF01_x_MyHYnZ2dnUVZ_v6tnZ2d@comcast.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 25
Message-ID: <A74vh.23$Hq2.105576@news.sisna.com>
Date: Sun, 28 Jan 2007 08:25:05 -0800
NNTP-Posting-Host: 66.81.61.134
```

X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1170001504 66.81.61.134 (Sun, 28 Jan 2007 09:25:04 MST)
NNTP-Posting-Date: Sun, 28 Jan 2007 09:25:04 MST
Organization: Internet News Service
X-Received-Date: Sun, 28 Jan 2007 09:25:04 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.policy:63754
rec.radio.amateur.misc:28631 rec.radio.amateur.antenna:24774
rec.radio.amateur.boatanchors:7319 rec.radio.amateur.homebrew:8830

Dee Flint wrote:

> ...
> OK John, clean up this newsgroup so I don't have to add filters on an almost
> daily basis to eliminate the constant deluge of sex posts, vulgar posts,
> etc.
>
> Dee, N8UZE
>
>

Dee:

There I agree with you 100%. The vulgarity and sheer non-sense makes me
embarrassed for them. I cringe at the mental state they must exist in
to wish to provide such a display in front of women and younger users here.

I fear that this does not just exist in the newsgroups, here with us,
but also is becoming "something bad" in America :(

I can only admire you in finding the tools and having the determination
to be here with us in spite of all that non-sense ...

Warmest regards,
JS

From -6164897621143843152
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v45g2000cwv.googlegroups.com!not-for-mail
From: eternalsquire@comcast.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 28 Jan 2007 14:50:02 -0800
Organization: http://groups.google.com
Lines: 123
Message-ID: <1170024602.005846.108650@v45g2000cwv.googlegroups.com>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
   <B2Ouh.1652$4H1.913@newssvr17.news.prodigy.net>
   <NTOuh.38139$Gr2.34165@newssvr21.news.prodigy.net>
   <CfPuh.191$HF.332905@news.sisna.com>

```
   <dfQuh.1443$MN.506@newssvr23.news.prodigy.net>
NNTP-Posting-Host: 67.142.130.41
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170024618 3209 127.0.0.1 (28 Jan 2007 22:50:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 28 Jan 2007 22:50:18 +0000 (UTC)
In-Reply-To: <dfQuh.1443$MN.506@newssvr23.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v45g2000cwv.googlegroups.com; posting-host=67.142.130.41;
   posting-account=RyqjfwwAAADvOapQHMNoJI3nvO5uDrpo
Xref: g2news2.google.com rec.radio.amateur.homebrew:8831

Its a good idea, might even make a fine commercial venture.  My only
problem
with 160 to 190 khz is that its a public band, not an amateur band.

My reason for operating 80M under part 15 is that as a code practice
group
they can get used to courtesy and usage as well as operation, and
anyone
who happens to listen will simply hear just another group of brass
pounders.

Immediately after getting the license they can keep the same rigs but
then
start an amplifier project.

Another question would be temporary callsigns.   I was thinking that
each kid
would have the call 15XX, where XX is the first and last initial.

On Jan 27, 3:20 pm, "N9WOS" <N...@nobug.sbcglobal.net> wrote:
> > Only thing is, such low power xmitters, if designed and tuned to a
> > "quiet" portion of the mw band allows anyone with a standard am radio to
> > tune into and participate in ...
>
> > Rip apart any old transistor radio and you have the necessary parts for
> > the xmitter ...
>
> > VLF receivers can be a tad bit expensive ... however, most am radios
> > would easily be modified to VLF ... the patience of the elmer would be
> > the only resource in question.
>
> > Regards,
> > JSThe first thing that came into my mind when I read that is.
> Is there even such thing as a "quiet portion of the MW band"?
>
> The normal AM band has so many multiKW stations running on it that it is
> heavily polluted with RF noise.
```

> The general coverage receiver I have, has a 200 Foot long antenna hooked to
> it.
> Night or day, It is hard to find a broadcast channel that isn't giving a
> signal reading running from S5 to S9 even when you can't hear any traces of
> a broadcast signal.
> There is so many distant stations being heard at once that it turns into
> indistinguishable noise.
>
> And if you do catch a quiet channel, it only last for a few minutes, or
> hours until propagation changes, and the noise level comes back up to
> normal.
>
> Once you drop off the edge of the AM band, the average noise level drops
> down to almost nothing within a few Kc of the edge.
>
> After you get past a certain grade of radio and RX antenna, you will not
> gain any improvement because of the base noise level of the band. They would
> basically be reduced to fighting the TX side of things, to try and stay
> above the average noise level.
>
> Can you say "CB a few years ago"?
>
> The only reason the horrible noise level isn't apparent on most AM receivers
> sold in stores, is because they are so insensitive that they can't hear even
> relatively loud signals. That is why I almost consider it a waste of money
> to buy a standard AM/FM radio that is currently on the market to listen to
> AM. I have built crystal radios that are more sensitive on AM than some of
> the high dollar AM/FM radios I have used.
>
> A lot of AM/FM radios I see any more, don't even have an IF section, with IF
> transformers. If you are lucky, they have a 455kc crystal filter, in a
> section that can barely be called a IF section.
>
> You are taking a big handicap when you stay on the AM band, and use a
> standard off the shelf AM radio.
>
> You have to use a radio that is designed for SW use, where the average noise
> levels are a lot lower, better selectivity, and the radio has a higher total
> gain from antenna to speaker.
>
> If I was designing a simple software IF radio for them to use with their
> computer, Or a basic SSB voice rig, here is the basic layout i would use.
>
> The IF for receive and TX would be 455Kc using off the shelf AM IF cans.
>
> TX side.
> 450Kc or 460Kc crystal feeding a balanced modulator.
> Soundcard driving the other input of the balanced modulator.
> Feed the output of the modulator through an amplifier to an off the shelf
> 455Kc center frequency, 10Kc bandwidth, crystal filter used in the IF of
> standard AM receivers.
>
> Feed that into a mixer being driven by a 630kc local oscillator.

```
> That will yield a 170Kc to 180kc coverage signal that you can feed into a
> band pass filter.
> Feed the band pass filter into the final amp.
> Feed the final amp into the antenna coupler/ second band pass filter, and
> then to the antenna.
>
> That will allow you to use about 1/3 of the entire lowfer band without
> changing any frequency in the transmitter.
>
> Just set up the receiver with the exact opposite of the TX.
> And you can use the TX crystal oscillators to feed the receiver, so the RX
> frequency will be a mirror of the TX one.
>
> The antenna coming in to a band pass filter.
> One stage of RF amp if desired.
> Feed that into the RX mixer.
> The mixer uses the same 630Kc local oscillator as the TX section.
> Run the output of the mixer into an IF strip, with an identical 455Kc
> crystal filter.
> Run it to a final detector being feed by the 450/460Kc crystal.
> Feed the output of a detector into an audio amp, then to the input of the
> sound card.
> Put a little AGC in here and there, and you are ready to go.
>
> With that setup, they could have several conversations going at once on
> different digital modes, without bothering each other.
>
> For an AM transmitter I would just use a crystal oscillator driving a
> modulated final amp.
> And for the receive end, I would just use a modified AM receiver with a GOOD
> IF!!!. There is even a few general coverage radios that already has 160 to
> 190Kc coverage that would work fine for a receiver..



From -4340728720188184328
X-Google-Thread: fc2a5,4f4c5faa27fff86,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr23.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Cell phone for homebrew ?
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <Cjavh.2667$MN.2547@newssvr23.news.prodigy.net>
```

NNTP-Posting-Host: 70.142.62.252
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr23.news.prodigy.net 1170026850 ST000 70.142.62.252 (Sun, 28 Jan 2007 18:27:30 EST)
NNTP-Posting-Date: Sun, 28 Jan 2007 18:27:30 EST
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
Q[R_PJSCTS@ERQXXKZOX_RXAUSXB@DTMNHWB_EYLJZ]BGIELDVW[AKK[J\]^HVKHG^EWZHBLO^[\NH_AZFWGN^\DHNVMX_DHHX[FSQKBOTS@@BP^]C@RHS_AGDDC[AJM_T[GZNRNZAY]GNCPBDYKOLK^_CZFWPGHZIXW@C[AFKBBQS@E@DAZ]VDFUNTQQ]FN
Date: Sun, 28 Jan 2007 17:27:30 -0600
Xref: g2news2.google.com rec.radio.amateur.homebrew:8832

I sure see lots of retired cell phones and wonder why I haven't seen any
homebrew projcts to make something useful out of old outdated ones.
I realize that the last few years may be too complex and small but how about
the old analog shoe phones?

--

73
Hank WD5JFR

From -4704784404989413741
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!newssvr22.news.prodigy.net.POSTED!35cb456c!not-for-mail
From: "N9WOS" <N9WOS@nobug.sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<B2Ouh.1652$4H1.913@newssvr17.news.prodigy.net>
<NTOuh.38139$Gr2.34165@newssvr21.news.prodigy.net>
<CfPuh.191$HF.332905@news.sisna.com>
<dfQuh.1443$MN.506@newssvr23.news.prodigy.net>
<1170024602.005846.108650@v45g2000cwv.googlegroups.com>
Subject: Re: Where does part 97 end and part 15 begin?
Lines: 68
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <epbvh.36165$QU1.26589@newssvr22.news.prodigy.net>
NNTP-Posting-Host: 66.72.70.81
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr22.news.prodigy.net 1170031306 ST000 66.72.70.81 (Sun, 28 Jan 2007 19:41:46 EST)

```
NNTP-Posting-Date: Sun, 28 Jan 2007 19:41:46 EST
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
Q[RGGYCNBZUUCFD[LZKJOPHAWB\^PBQLGPQRZUEK@YUDUWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
TINTDDMVW[X\THOPXZRVOCJTUTPC\_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Sun, 28 Jan 2007 19:40:59 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8833
```

> Its a good idea, might even make a fine commercial venture. My only
> problem
> with 160 to 190 khz is that its a public band, not an amateur band.
>
> My reason for operating 80M under part 15 is that as a code practice
> group
> they can get used to courtesy and usage as well as operation, and
> anyone
> who happens to listen will simply hear just another group of brass
> pounders.
>
> Immediately after getting the license they can keep the same rigs but
> then
> start an amplifier project.
>
> Another question would be temporary callsigns.   I was thinking that
> each kid
> would have the call 15XX, where XX is the first and last initial.

Ww wow wow wow.... put the brakes on here a second.

There is a little flaw with that logic.

People do listen around the band, and type up the callsigns on websites/books/CD ROMs, and a lot of logging programs have callsign lookup, or at least rough location determination based on call layout.

There is never "just another group of brass pounders"

There is plenty of people that operate at levels of a watt or less, with the full knowledge that when they pound out a CQ a couple times, that someone, or sometime a bunch of people, will be looking through the band, hear them, and respond, so they can make a contact.

Local CW ops, and even some at quite a distance will quickly determine that there has been a flood of "very strange, illegal, but slightly weak people that don't do code very well" cluttering up a specific frequency, or cluster of frequencies.

Of course, the operator/s will subsequently have kittens, and all attempts to make ham radio operators look like a bunch of angles will go down the drain.

Of course the operator/s will try to get the group of "freebanders" to leave. If they don't listen, then the operator will do his solemn duty and he will get reinforcements, and the frequency will sound like world war 25 has just broken loose, pronto.

Them using random, made up callsigns will speed up the process, because there is plenty of people that cruse the bands, looking for rare DX. How do you think pileups happen? When they find a weak station using a rare callsign, it will hit the DX clusters, and all hell will break loose.

Heck, one of the groups that I always listen to on 160 had a little fun one time. One of them made a joke by saying that he was (something thousand miles) south east of anchorage Alaska. (ie) In Iowa. And all of a sudden, there were tons of people on the frequency asking where the Alaskan station was. And carnage issued. Some casual passer by had heard the Alaska reference and forwarded it to the DX clusters.

I can see so many ways that that setup could lead to total carnage in so many ways.

You will have some poor child asking his parents why someone would want them to stick such and such in up their tail end.

From -3998947535130678428
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!homer!news.glorb.com!news-spur1.glorb.com!news.glorb.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<45ba4491$0$171$540ea2cf@novia.net> <XTruh.23$0B6.97376@news.sisna.com>
<45bae4f5$0$172$540ea2cf@novia.net> <cUBuh.75$iB7.179326@news.sisna.com>
<3p1nr2hlrmgo05g8c05me802tisusehs37@4ax.com> <EWLuh.175$3d.227432@news.sisna.com>
<sejqr218eim6pdcr1ks1sfuo2h387bd4oc@4ax.com>
In-Reply-To: <sejqr218eim6pdcr1ks1sfuo2h387bd4oc@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 25
Message-ID: <lucvh.97$Hq2.105576@news.sisna.com>
Date: Sun, 28 Jan 2007 17:55:33 -0800
NNTP-Posting-Host: 66.81.61.136
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1170035729 66.81.61.136 (Sun, 28 Jan 2007 18:55:29 MST)
NNTP-Posting-Date: Sun, 28 Jan 2007 18:55:29 MST

Organization: Internet News Service
X-Received-Date: Sun, 28 Jan 2007 18:55:29 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8835

Jim Higgins wrote:

> ...
> Seriously, not trying to be snide. I simply see nothing important on
> the topic of FCC authority on Indian Reservations in that document.
> Not to say it won't become an important issue some day, but I don't
> see the seeds there.

What you see is the FCC side-step the question. I do not believe they wish to take on the Indian nation. Indeed, I have heard of little success in any gov't agency in doing so.

Those treaties signed many moons ago by our forefathers still stand (Navajo, especially, have refused every attempt at revision), and they are very, very broad ... like gambling was probably accepted in all the territories back then. Like radio was NOT invented back then ... do you even know how large that reservation in question is? Try the size of West Virginia. Know how large that tribe is? Try the largest in the USA.

Some reservations have sent men to the best colleges and have some of the best attorneys in the world. If you doubt that, take on the Indians. California did, and lost ...

Regards,
JS

From 4720055106264157109
X-Google-Thread: fc2a5,4f4c5faa27fff86
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-03!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@Yahoo.Com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cell phone for homebrew ?
Date: Sun, 28 Jan 2007 18:07:08 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12rqlm8smr76g07@corp.supernews.com>
References: <Cjavh.2667$MN.2547@newssvr23.news.prodigy.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 12
Xref: g2news2.google.com rec.radio.amateur.homebrew:8836

"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in message
news:Cjavh.2667$MN.2547@newssvr23.news.prodigy.net...
>I sure see lots of retired cell phones and wonder why I haven't seen any
>homebrew projcts to make something useful out of old outdated ones.

What kind of projects did you have in mind?

These days with DigiKey, Mouser, etc. it's often easier just to design
something from scratch, and that way anyone can build it (rather than trying
to track down a specific model phone...).

From -3167113481824865523
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v33g2000cwv.googlegroups.com!not-for-mail
From: eternalsquire@comcast.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 28 Jan 2007 18:43:20 -0800
Organization: http://groups.google.com
Lines: 70
Message-ID: <1170038600.919597.132900@v33g2000cwv.googlegroups.com>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
   <B2Ouh.1652$4H1.913@newssvr17.news.prodigy.net>
   <NTOuh.38139$Gr2.34165@newssvr21.news.prodigy.net>
   <CfPuh.191$HF.332905@news.sisna.com>
   <dfQuh.1443$MN.506@newssvr23.news.prodigy.net>
   <1170024602.005846.108650@v45g2000cwv.googlegroups.com>
   <epbvh.36165$QU1.26589@newssvr22.news.prodigy.net>
NNTP-Posting-Host: 67.142.130.41
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170038607 30564 127.0.0.1 (29 Jan 2007 02:43:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 29 Jan 2007 02:43:27 +0000 (UTC)
In-Reply-To: <epbvh.36165$QU1.26589@newssvr22.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1) Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v33g2000cwv.googlegroups.com; posting-host=67.142.130.41;
   posting-account=RyqjfwwAAADvOapQHMNoJI3nvO5uDrpo
Xref: g2news2.google.com rec.radio.amateur.homebrew:8837

Would a call sign like PART15XX make it a lot clearer and a lot more
obvious?   I wonder what the FCC would suggest for micropower
CW callsigns.

On Jan 28, 5:40 pm, "N9WOS" <N...@nobug.sbcglobal.net> wrote:
> > Its a good idea, might even make a fine commercial venture. My only
> > problem
> > with 160 to 190 khz is that its a public band, not an amateur band.
>
> > My reason for operating 80M under part 15 is that as a code practice
> > group
> > they can get used to courtesy and usage as well as operation, and
> > anyone
> > who happens to listen will simply hear just another group of brass
> > pounders.
>
> > Immediately after getting the license they can keep the same rigs but
> > then
> > start an amplifier project.
>
> > Another question would be temporary callsigns.   I was thinking that
> > each kid
> > would have the call 15XX, where XX is the first and last initial.Ww wow wow
wow.... put the brakes on here a second.
>
> There is a little flaw with that logic.
>
> People do listen around the band, and type up the callsigns on
> websites/books/CD ROMs, and a lot of logging programs have callsign lookup,
> or at least rough location determination based on call layout.
>
> There is never "just another group of brass pounders"
>
> There is plenty of people that operate at levels of a watt or less, with the
> full knowledge that when they pound out a CQ a couple times, that someone,
> or sometime a bunch of people, will be looking through the band, hear them,
> and respond, so they can make a contact.
>
> Local CW ops, and even some at quite a distance will quickly determine that
> there has been a flood of "very strange, illegal, but slightly weak people
> that don't do code very well" cluttering up a specific frequency, or cluster
> of frequencies.
>
> Of course, the operator/s will subsequently have kittens, and all attempts
> to make ham radio operators look like a bunch of angles will go down the
> drain.
>
> Of course the operator/s will try to get the group of "freebanders" to
> leave. If they don't listen, then the operator will do his solemn duty and
> he will get reinforcements, and the frequency will sound like world war 25
> has just broken loose, pronto.
>
> Them using random, made up callsigns will speed up the process, because
> there is plenty of people that cruse the bands, looking for rare DX. How do
> you think pileups happen? When they find a weak station using a rare

> callsign, it will hit the DX clusters, and all hell will break loose.
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> Heck, one of the groups that I always listen to on 160 had a little fun one
> time. One of them made a joke by saying that he was (something thousand
> miles) south east of anchorage Alaska. (ie) In Iowa. And all of a sudden,
> there were tons of people on the frequency asking where the Alaskan station
> was. And carnage issued. Some casual passer by had heard the Alaska
> reference and forwarded it to the DX clusters.
>
> I can see so many ways that that setup could lead to total carnage in so
> many ways.
>
> You will have some poor child asking his parents why someone would want them
> to stick such and such in up their tail end.

From -7474412035502070781
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q2g2000cwa.googlegroups.com!not-for-mail
From: eternalsquire@comcast.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 28 Jan 2007 18:44:37 -0800
Organization: http://groups.google.com
Lines: 69
Message-ID: <1170038677.293547.174950@q2g2000cwa.googlegroups.com>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
   <B2Ouh.1652$4H1.913@newssvr17.news.prodigy.net>
   <NTOuh.38139$Gr2.34165@newssvr21.news.prodigy.net>
   <CfPuh.191$HF.332905@news.sisna.com>
   <dfQuh.1443$MN.506@newssvr23.news.prodigy.net>
   <1170024602.005846.108650@v45g2000cwv.googlegroups.com>
   <epbvh.36165$QU1.26589@newssvr22.news.prodigy.net>
NNTP-Posting-Host: 67.142.130.41
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170038688 5277 127.0.0.1 (29 Jan 2007 02:44:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 29 Jan 2007 02:44:48 +0000 (UTC)
In-Reply-To: <epbvh.36165$QU1.26589@newssvr22.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1) Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q2g2000cwa.googlegroups.com; posting-host=67.142.130.41;
   posting-account=RyqjfwwAAADvOapQHMNoJI3nvO5uDrpo
Xref: g2news2.google.com rec.radio.amateur.homebrew:8838

And I suspect I would make the problem worse if I let the kids telegraph in their own language.

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>
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> to stick such and such in up their tail end.

From -8126183583882202479
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!newssvr23.news.prodigy.net.POSTED!35cb456c!not-for-mail
From: "N9WOS" <N9WOS@nobug.sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<B2Ouh.1652$4H1.913@newssvr17.news.prodigy.net>
<NTOuh.38139$Gr2.34165@newssvr21.news.prodigy.net>
<CfPuh.191$HF.332905@news.sisna.com>
<dfQuh.1443$MN.506@newssvr23.news.prodigy.net>
<1170024602.005846.108650@v45g2000cwv.googlegroups.com>
<epbvh.36165$QU1.26589@newssvr22.news.prodigy.net>
<1170038677.293547.174950@q2g2000cwa.googlegroups.com>
Subject: Re: Where does part 97 end and part 15 begin?
Lines: 127
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <zSdvh.2687$MN.2297@newssvr23.news.prodigy.net>
NNTP-Posting-Host: 66.72.68.114
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr23.news.prodigy.net 1170041375 ST000 66.72.68.114 (Sun, 28 Jan 2007 22:29:35 EST)
NNTP-Posting-Date: Sun, 28 Jan 2007 22:29:35 EST
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
Q[R_PJON[J@]SQD[N[O@_WH@YR_B@EXLLBWLOOAFJYWZUYICD^RAQBKZQTZTX_I[^G_KGFNON[ZOE_AZNVO^\XGGNTCIRPIJH[@RQKBXLRZ@CD^HKANYVW@RLGEZEJN@_WZJBNZYYKVIOR]T]MNMG_Z[YVWSCH_Q[GPC_A@CARQVXDSDA^M]@DRVUM@RBM

Date: Sun, 28 Jan 2007 22:29:35 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8839

<eternalsquire@comcast.net> wrote in message
news:1170038677.293547.174950@q2g2000cwa.googlegroups.com...

> And I suspect I would make the problem worse if I let the kids
> telegraph in their own language.

(Cough cough)....... yap!!!!!!!

I couldn't really think of a way to avoid a cataclysm that is why I ditched the idea of using the ham band, and especially the color burst frequency, without second thought.

The 3.579545Mc (Got a color burst crystal in my hand right now.) frequency is popular because the crystal is so readily available. So it's used in a lot of homebrew equipment. The crystal may be pulled up or down a bit in frequency, but within a few KC of that frequency.

You would basically be dropping them into a hornets nest of activity.

Any other alternative would be highly suggestible, even running relatively high power on the AM broadcast band would have less of a chance of stirring up trouble.

Another idea.
Going with off the shelf CB's would also be an idea. You could use a code practice oscillator held close to the mike, or even wired into the mike circuit, to send code practice. You could even implement digital transmission systems via a computer, program, and sound card (RTTY, PSK31, MFSK) if you wired the soundcard output into the mike. It would work perfectly fine on Stock AM. Only one person could use the frequency at a time. It wouldn't exactly match the designed method of operation, but it would work. It would get them familiarized with the modes of operation.

If you spent the money on SSB CB's then you could fully implement the intended method of operation for soundcard/computer based programs. And it would allow multiple people to carry on a PSK31/RTTY/BPSK/MFSK..... conversation on the same channel without bothering each other. Basically the same as you would have on the Lowfer band. And you wouldn't really have to build a thing except for a few audio interface cables.

Just get a bunch of SSB radios, the cheapest ones you can get. Wire up a bunch of interface cables to hook the mike, and speaker connections to the sound card, and you are done.

You could also set up a packet network with CB's. Other people have done it.

You could even implement the newest DRM transmission systems that are hitting the ham band if you had SSB CB's.

And the CB band is relatively dead right now, so you have plenty of open channels to work with.

And you can use off the shelf antennas, that are a lot smaller. It would also open up the realm of mobile operation.

There is plenty of options, besides putting them in a situation that is just asking for trouble.

....

A little note to add to that, in case someone thinks that no one will hear a station at a distance that is running real low of power.

A few weeks ago, I was playing with an oscillator design. I had just used a random inductor that i had laying around for the LC network. The frequency that it landed on was totally at random.

That happened to be around 8.199Mc

All that i had hooked to the proto board was the power supply, and the frequency counter, (and sometimes the O scope). The oscillator was developing about a 8V P to P signal across the 1Kohm loading resistor on the proto board.

I wanted to have an audio representation of the oscillator drift, so I went to my normal HF receiver and tuned it in on the SSB setting so i could hear the drift in real time.

The oscillator was being pulled by the frequency counter a bit. When the gate of the counter would open, the oscillator would shift down a hundred cycles or so. The audio signal I was hearing was along the lines of ... drrrrrrrrrrrr duuuuuuuuuuuuu drrrrrrrrrrrrr duuuuuuuuuu...........

I had a reason to turn it off for a minute, and then when i turned it back on, i heard a Burlblbublbublbub ..... for a few seconds, then it went away, for a few seconds, then it went Burlblbublbublbub ..... again, and then went away........ I thought that it was totally by coincidence. There was no way anyone could be hearing it.

So, to settle my mind, that I wasn't going crazy, I shut off the oscillator again, for a few minutes. I never heard the unknown signal in that time. But when I turned the oscillator back on..... About two seconds after i turned it on.......... Burlblbublbublbub........ then a few seconds later...... Burlblbublbublbub....

After subsequent test cycles I had pretty much figured out that it was some kind of frequency hopping signal that I was hearing. The signal from my oscillator must of correlated closely with the type of contact initiation signal that the outside station was looking for. When it heard that warbling tone, it would try to interrogate the calling station (my oscillator) to set up a two way contact. It would try two times, then give up until the signal disappeared for a certain amount of time. When the signal would come back, then it would try to set up a two way contact again

I looked up what band the 8.199Mc signal fell in, and my old reference book said it was a maritime mobile band. The data in the book may be out of date, but if it isn't, then the receiving station may have been a long ways away. Probably some automated ship to shore station along the great lakes. The propagation was just right for my signal to hit their receiver.

Stuff like that is why direct antenna coupled regenerative receivers that are operated in the oscillation region for CW/SSB detection are frowned upon. If they are hooked to a good antenna, then your "receiver" can be heard quite a distance away.

That is why most regenerative kits sold today, have an RF amp stage on the input, to stop the regenerative section from back feeding the antenna.

I have even heard of a few people using a regenerative receiver as a transceiver by keying the tube with the regeneration control turned way up. They only made contact to people on the other side of the island, but it worked. Now try to beat that, a one tube or transistor transceiver!

```
From -1783020403394708958
X-Google-Thread: fc2a5,c5e46327b03f24dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m58g2000cwm.googlegroups.com!not-for-mail
From: JIMMIEDEE123@YAHOO.COM
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for a SL6440 Mixer IC
Date: 28 Jan 2007 20:01:52 -0800
Organization: http://groups.google.com
Lines: 38
Message-ID: <1170043312.426297.135020@m58g2000cwm.googlegroups.com>
References: <izigh.2492$yC5.2427@newssvr27.news.prodigy.net>
   <1166320881.544361.286380@t46g2000cwa.googlegroups.com>
   <CD3hh.504$x67.151@newssvr17.news.prodigy.net>
   <1166358443.229047.85300@80g2000cwy.googlegroups.com>
   <0HAhh.154$sR.20@newssvr29.news.prodigy.net>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170043324 9326 127.0.0.1 (29 Jan 2007 04:02:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 29 Jan 2007 04:02:04 +0000 (UTC)
In-Reply-To: <0HAhh.154$sR.20@newssvr29.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m58g2000cwm.googlegroups.com; posting-host=204.108.8.5;
   posting-account=zCf1Uw0AAAAC_RNkZf7dTivygQcRNODI
Xref: g2news2.google.com rec.radio.amateur.homebrew:8840

Sorry I didnt get back sooner, my friend doesnt use email, dont even
think he owns a computer. He said there is nothing special about it,
just a DBM he got out of a book and built on the header. He say he
hasnt been very interested in things like this for years.

On Dec 18 2006, 1:00 pm, "Sbc News" <A...@Hardy.com> wrote:
> Thanks very much for the info Jimmie.  The mixer is for a home brew project,
> so I wouldn't mind building-up one.
>
> If you could have him emial a brief description of his circuit, I would
> appreciate it.  email at: w9nm at sbcglobal dot com
>
> 73, Emil
>
> <JIMMIEDEE...@YAHOO.COM> wrote in
messagenews:1166358443.229047.85300@80g2000cwy.googlegroups.com...
>
>
>
>
>
> > Hello wrote:
> >> Thanks to everyone that that answered.
> >> Merry Christmas
> >> Emil
> >> W9NM
>
> > I know a guy down in Ga that made a replacemnet for these. I tused a
> > couple of FETS  i think and the whoile cicuit could be built on a DIP
> > header. The limitation of the circuit was that it was not as flexible
> > as the origional, In other words it was not directly plug in compatable
> > all the time but he could always get it to work with a little
> > modification. He is retired now but I usally see him whenever I am down
> > there for Xmas. I doubt if he would want to build any but he would
> > probably share how to build and tweak them with anyone who wanted the
> > info.
>
> > Jimmie- Hide quoted text -- Show quoted text -



From 946951127855705426
X-Google-Thread: fc2a5,d7a9cdd1ef3fbf5c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m58g2000cwm.googlegroups.com!not-for-
mail
```

From: radioanarchy@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FS: 5 position band switch, Mallory p/n 1345L
Date: 28 Jan 2007 23:14:52 -0800
Organization: http://groups.google.com
Lines: 8
Message-ID: <1170054892.858152.133000@m58g2000cwm.googlegroups.com>
References: <1169941683.531568.184620@q2g2000cwa.googlegroups.com>
NNTP-Posting-Host: 67.54.128.147
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170054913 12368 127.0.0.1 (29 Jan 2007 07:15:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 29 Jan 2007 07:15:13 +0000 (UTC)
In-Reply-To: <1169941683.531568.184620@q2g2000cwa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m58g2000cwm.googlegroups.com; posting-host=67.54.128.147;
   posting-account=e8wzcg0AAADtWQIKu0akZdsQFERkwOLB
Xref: g2news2.google.com rec.radio.amateur.homebrew:8841

.

here is a picture:

http://www.angelfire.com/de/RadioAnarchy/images/switch.JPG

.....

From -9088600126742932707
X-Google-Thread: fc2a5,4f4c5faa27fff86
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s48g2000cws.googlegroups.com!not-for-mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cell phone for homebrew ?
Date: 29 Jan 2007 05:08:09 -0800
Organization: http://groups.google.com
Lines: 24
Message-ID: <1170076089.215477.256660@s48g2000cws.googlegroups.com>
References: <Cjavh.2667$MN.2547@newssvr23.news.prodigy.net>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170076101 21365 127.0.0.1 (29 Jan 2007 13:08:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 29 Jan 2007 13:08:21 +0000 (UTC)

In-Reply-To: <Cjavh.2667$MN.2547@newssvr23.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s48g2000cws.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news2.google.com rec.radio.amateur.homebrew:8842

On Jan 28, 6:27 pm, "Henry Kolesnik" <koles...@nojunksbcglobal.net> wrote:

> I sure see lots of retired cell phones and wonder why I haven't seen any
> homebrew projcts to make something useful out of old outdated ones.
> I realize that the last few years may be too complex and small but how about
> the old analog shoe phones?

Some of the analog shoebox and suitcase phones have separate VCO modules and IF strips. The chips used were sometimes well-documented (I'm thinking of the Signetics and Motorola stuff) and the datastreams for microprocessor control you could figure out.

But you have to go back to the early 90's to find equipment of that era. There were some ham magazine articles at the time these were going surplus. Some of the equipment had diagnostic modes that let you turn them into simplex receivers - not very good quality but OK and their reach outside the cellphone spectrum was nearly nonexistent.

Just to make you jealous: I work just two blocks from where the original actual shoe phone now resides :-). I am trying to persuade my company to get it from them on inter-agency loan...

Tim.

From 513988996772607642
X-Google-Thread: fc2a5,4f4c5faa27fff86
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v33g2000cwv.googlegroups.com!not-for-mail
From: skavanagh72nospam@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cell phone for homebrew ?
Date: 29 Jan 2007 05:19:27 -0800
Organization: http://groups.google.com
Lines: 13
Message-ID: <1170076767.569262.121420@v33g2000cwv.googlegroups.com>
References: <Cjavh.2667$MN.2547@newssvr23.news.prodigy.net>
NNTP-Posting-Host: 199.243.50.53
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1170076781 1898 127.0.0.1 (29 Jan 2007 13:19:41 GMT)

X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 29 Jan 2007 13:19:41 +0000 (UTC)
In-Reply-To: <Cjavh.2667$MN.2547@newssvr23.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v33g2000cwv.googlegroups.com; posting-host=199.243.50.53;
   posting-account=0Ys2Eg0AAADOQYhHmHwRZ2EGbJYic2GH
Xref: g2news2.google.com rec.radio.amateur.homebrew:8843

Henry Kolesnik wrote:
> I sure see lots of retired cell phones and wonder why I haven't seen any
> homebrew projcts to make something useful out of old outdated ones.

It always surprises me how little useful I can get out of these. I
used half the diplexer from a big old one as a filter for an 875 MHz
local oscillator chain for a 903 MHz receiving converter. And I used
the speaker from a more modern one to provide sidetone for a laser MCW
transmitter. That's it so far....

73,
Steve VE3SMA

From -2924428801747335816
X-Google-Thread: fc2a5,1fdda873784087dc,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l53g2000cwa.googlegroups.com!not-for-mail
From: "mister35mm" <mister35mm@yahoo.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Two QRP questions, one easy, the other, tricky...
Date: 29 Jan 2007 06:09:21 -0800
Organization: http://groups.google.com
Lines: 22
Message-ID: <1170079761.013134.323880@l53g2000cwa.googlegroups.com>
NNTP-Posting-Host: 81.174.187.191
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170079779 9409 127.0.0.1 (29 Jan 2007 14:09:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 29 Jan 2007 14:09:39 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.9)
Gecko/20061206 (CK-Stumble) Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l53g2000cwa.googlegroups.com; posting-host=81.174.187.191;
   posting-account=CSEu3Q0AAADiuUUA3L3fZwUmzIFsNTF6
Xref: g2news2.google.com rec.radio.amateur.homebrew:8844

1. Ok, easy question first. Someone has given me a PCB for a QRP transmitter called "little joe" and the PCB has 9-81 QST. I have searched on the web but I cannot find the component layout, and, ideally, a copy of the original article.

2. I have been playing around with a simple transmitter project called the Michigan Mighty Mite (http://cs.okanagan.bc.ca/ve7ouc/eng/kc6wdk-mirror/transmitter.html) which uses any one of a number of small signal NPN transistors. As I found a large number of metal cased NPN power transistors, I was wondering if I can drop one of these as a direct substitute for say, a 2n2222, or an old BFY51 etc etc. I have, for example, found a RCA 2n6282 Darlington Pair in my junk box. This is a VERY meaty little beast. The datasheet for this tranny can be seen here:- http://www.datasheetcatalog.com/datasheets_pdf/2/N/6/2/2N6282.shtml

Any suggestions?

Stephen Walters
mister 35 mm AT ya-hoo dot co dot uk

From -2239481499238036700
X-Google-Thread: fc2a5,3fe3f29c152392b4,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc02.POSTED!9e002db7!not-for-mail
From: "MICHAEL LINGER" <oldrover@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FS: Home brew 4CX-1000 amplifier.....
Lines: 7
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <Vpovh.7097$uC6.4217@trnddc02>
Date: Mon, 29 Jan 2007 15:29:57 GMT
NNTP-Posting-Host: 71.113.239.90
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc02 1170084597 71.113.239.90 (Mon, 29 Jan 2007 10:29:57 EST)
NNTP-Posting-Date: Mon, 29 Jan 2007 10:29:57 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8845

FS: Home brew console (floor model) 4CX-1000 amplifier. I am selling this for a friend who did a beautiful job of building this amp. Basically it's a home brew Collins 30S-1 that is commercial quality built. Can send pix to anyone seriously interested. Includes nicely done manual with all info.

$750. Mike, (979) 696-4400.

From -4429285657286390477
X-Google-Thread: fc2a5,4f4c5faa27fff86
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cell phone for homebrew ?
Date: 29 Jan 2007 15:52:23 GMT
Organization: The National Capital FreeNet
Lines: 32
Message-ID: <epl57n$1b$1@theodyn.ncf.ca>
References: <Cjavh.2667$MN.2547@newssvr23.news.prodigy.net>
<1170076767.569262.121420@v33g2000cwv.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1170085943 43 134.117.136.48 (29 Jan 2007 15:52:23 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 29 Jan 2007 15:52:23 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8846

(skavanagh72nospam@yahoo.ca) writes:
> Henry Kolesnik wrote:
>> I sure see lots of retired cell phones and wonder why I haven't seen any homebrew projcts to make something useful out of old outdated ones.
>
> It always surprises me how little useful I can get out of these. I used half the diplexer from a big old one as a filter for an 875 MHz local oscillator chain for a 903 MHz receiving converter. And I used the speaker from a more modern one to provide sidetone for a laser MCW transmitter. That's it so far....
>

The big clunky ones, and I've not seen any at garage sales in a few years, have offered up things like FM IF strips (they've tended to be really easy to isolate from the rest of the unit), various crystal filters with centre frequencies above 30MHz which would be suitable as roofing filters, some txcos, go back far enough and they have standalone NE570 (or later variants) compander ICs. I've also pulled prescaler ICs out of them.

The trick is that the older and bigger they are, the better the parts. There will be recognizeable parts, and many will even be in DIP packages.

The more recent they are, the less valuable because everthing gets highly integrated. I opened one hand held cellphone, of recent vintage obviously, and the IF filter was barely recognizeable.

Because they were specifically designed to be part of a system (ie you'll never use a cellphone by itself), they have usually been way too dedicated to allow for much in the way of modification.

  MIchael VE2BVW

```
From -5766683503222800970
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: "RST Engineering" <jim@rstengineering.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<45ba4491$0$171$540ea2cf@novia.net> <XTruh.23$0B6.97376@news.sisna.com>
<45bae4f5$0$172$540ea2cf@novia.net> <cUBuh.75$iB7.179326@news.sisna.com>
<3p1nr2hlrmgo05g8c05me802tisusehs37@4ax.com> <EWLuh.175$3d.227432@news.sisna.com>
<sejqr218eim6pdcr1ks1sfuo2h387bd4oc@4ax.com> <lucvh.97$Hq2.105576@news.sisna.com>
Subject: Re: Where does part 97 end and part 15 begin?
Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <QHovh.4$2g.126076@news.sisna.com>
Date: Mon, 29 Jan 2007 07:50:58 -0800
NNTP-Posting-Host: 70.41.242.222
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1170085744 70.41.242.222 (Mon, 29 Jan 2007 08:49:04 MST)
NNTP-Posting-Date: Mon, 29 Jan 2007 08:49:04 MST
Organization: Internet News Service
X-Received-Date: Mon, 29 Jan 2007 08:49:04 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8847
```

That's true. They sent one kid off to MIT and he came back with a degree in Electrical Engineering. When he got back home he found that the communal restroom had no lights, so to show his gratitude to the tribe he ran electricity to the bathroom.

So far as we know, that was the first Indian ever to wire a^head for a reservation.

{;-)

Jim

"John Smith I" <assemblywizard@gmail.com> wrote in message
news:lucvh.97$Hq2.105576@news.sisna.com...

>
> Some reservations have sent men to the best colleges and have some of the
> best attorneys in the world.

```
From 536174457302232180
X-Google-Thread: fc2a5,1fdda873784087dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 29 Jan 2007 11:10:44 -0600
Date: Mon, 29 Jan 2007 09:10:59 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Two QRP questions, one easy, the other, tricky...
References: <1170079761.013134.323880@l53g2000cwa.googlegroups.com>
In-Reply-To: <1170079761.013134.323880@l53g2000cwa.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <0PydnftMitcJtyPYnZ2dnUVZ_uyknZ2d@web-ster.com>
Lines: 43
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-
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eLHIWsIThploJ5be0bEocJJ8VGQ5GZrraAChTnSdanp1Tvoz6T4VE9zfWTGh917Cvm6exImePSv7!
Hrv8X/vL4mssQNkd
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8852
```

mister35mm wrote:

> 1. Ok, easy question first. Someone has given me a PCB for a QRP
> transmitter called "little joe" and the PCB has 9-81 QST. I have
> searched on the web but I cannot find the component layout, and,
> ideally, a copy of the original article.
>

My QST collection only goes back to '88 or so. You could buy a CD from

ARRL, if no one here has the article.
>
> 2. I have been playing around with a simple transmitter project called
> the Michigan Mighty Mite (http://cs.okanagan.bc.ca/ve7ouc/eng/kc6wdk-
> mirror/transmitter.html) which uses any one of a number of small
> signal NPN transistors. As I found a large number of metal cased NPN
> power transistors, I was wondering if I can drop one of these as a
> direct substitute for say, a 2n2222, or an old BFY51 etc etc. I have,
> for example, found a RCA 2n6282 Darlington Pair in my junk box. This
> is a VERY meaty little beast. The datasheet for this tranny can be
> seen here:- http://www.datasheetcatalog.com/datasheets_pdf/2/N/
> 6/2/2N6282.shtml
>
> Any suggestions?
>

Don't do it!

Power transistors, particularly vintage ones, are very slow in comparison to "small signal" types. Darlingtons are a different kind of thing altogether, they are even slower yet but with significantly higher current gain.

Find a bag of surplus 2N2222s, or buy a dozen new 2N3904's from Digi-Key -- you'll be much better served.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

From -822954059603136184
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v33g2000cwv.googlegroups.com!not-for-mail
From: eternalsquire@comcast.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 29 Jan 2007 09:35:49 -0800
Organization: http://groups.google.com
Lines: 40
Message-ID: <1170092149.128348.163870@v33g2000cwv.googlegroups.com>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
   <45ba4491$0$171$540ea2cf@novia.net>
   <XTruh.23$0B6.97376@news.sisna.com>

```
   <45bae4f5$0$172$540ea2cf@novia.net>
   <cUBuh.75$iB7.179326@news.sisna.com>
   <3p1nr2hlrmgo05g8c05me802tisusehs37@4ax.com>
   <EWLuh.175$3d.227432@news.sisna.com>
   <sejqr218eim6pdcr1ks1sfuo2h387bd4oc@4ax.com>
   <lucvh.97$Hq2.105576@news.sisna.com>
   <QHovh.4$2g.126076@news.sisna.com>
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X-Trace: posting.google.com 1170092154 8695 127.0.0.1 (29 Jan 2007 17:35:54 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 29 Jan 2007 17:35:54 +0000 (UTC)
In-Reply-To: <QHovh.4$2g.126076@news.sisna.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v33g2000cwv.googlegroups.com; posting-host=67.142.130.42;
   posting-account=RyqjfwwAAADvOapQHMNoJI3nvO5uDrpo
Xref: g2news2.google.com rec.radio.amateur.homebrew:8853
```

The Dine' (I use the term Navajo because most people outside are more familiar with that) are a very proud people who would resent being made fun of like that.

To the Dine', we are an alien people out of touch with the rhythms of the land, who are obsessed with consumer goods, technology, money, or bigotry.   Even such whites are ourselves who do see what history has done to the Dine' and find it appalling, are viewed as possibly having egotism.

The Dine' are more impressed by whites who listen first then act later in small ways that fit what the Dine' already do.

You have to live with the Dine' least a couple years before you can even begin to understand the challenge of introducing a new technology in a culturally appropriate manner.

The Eternal Squire

On Jan 29, 8:50 am, "RST Engineering" <j...@rstengineering.com> wrote:
> That's true. They sent one kid off to MIT and he came back with a degree in
> Electrical Engineering. When he got back home he found that the communal
> restroom had no lights, so to show his gratitude to the tribe he ran
> electricity to the bathroom.
>
> So far as we know, that was the first Indian ever to wire a^head for a
> reservation.
>
> {;-)
>

> Jim
>
> "John Smith I" <assemblywiz...@gmail.com> wrote in
messagenews:lucvh.97$Hq2.105576@news.sisna.com...
>
>
>
> > Some reservations have sent men to the best colleges and have some of the
> > best attorneys in the world.

```
From -8958095483447316369
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: John Smith I <assemblywizard@gmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<45ba4491$0$171$540ea2cf@novia.net>   <XTruh.23$0B6.97376@news.sisna.com>
<45bae4f5$0$172$540ea2cf@novia.net>   <cUBuh.75$iB7.179326@news.sisna.com>
<3p1nr2hlrmgo05g8c05me802tisusehs37@4ax.com>
<EWLuh.175$3d.227432@news.sisna.com>
<sejqr218eim6pdcr1ks1sfuo2h387bd4oc@4ax.com>
<lucvh.97$Hq2.105576@news.sisna.com>   <QHovh.4$2g.126076@news.sisna.com>
<1170092149.128348.163870@v33g2000cwv.googlegroups.com>
In-Reply-To: <1170092149.128348.163870@v33g2000cwv.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 47
Message-ID: <VSqvh.12$%f.123001@news.sisna.com>
Date: Mon, 29 Jan 2007 10:17:30 -0800
NNTP-Posting-Host: 66.81.62.220
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1170094645 66.81.62.220 (Mon, 29 Jan 2007 11:17:25 MST)
NNTP-Posting-Date: Mon, 29 Jan 2007 11:17:25 MST
Organization: Internet News Service
X-Received-Date: Mon, 29 Jan 2007 11:17:25 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8854
```

eternalsquire@comcast.net wrote:
> The Dine' (I use the term Navajo because most people outside are
> more familiar with that) are a very proud people who would resent
> being made fun of like that.
>
> To the Dine', we are an alien people out of touch with the
> rhythms of the land, who are obsessed with consumer goods,

> technology, money, or bigotry.   Even such whites are ourselves
> who do see what history has done to the Dine' and find it
> appalling, are viewed as possibly having egotism.
>
> The Dine' are more impressed by whites who listen first then
> act later in small ways that fit what the Dine' already do.
>
> You have to live with the Dine' least a couple years before you
> can even begin to understand the challenge of introducing a
> new technology in a culturally appropriate manner.
>
> The Eternal Squire
>
>

ES:

Yanno, that is something which is easy to provide high respect for in your description; which, by the way, I consider to be highly accurate.

Several years ago now, I was assisting to put together a data base for "prediction" of IQ's. One classification we correlated the data to was race (I know, un-politically correct, techs are that way.)

I was nothing short of amazed to find the most intelligent race on the planet, per capita, was the No. American Indian! (when given a "flat test", and adjusted for cultural differences--or, only based on ones ability to "solve puzzles.") That research indicated them best fitted for such tasks as research and development, the theoretical sciences, (and yes) law practice, etc.)

My prejudices, possibly from old westerns?, were so firmly set, I kept searching for a mistake in the software ... in other words, was hard for me to NOT picture them with a "bottle of firewater in their hand." I know, I have made mistakes in my thinking, and that ain't the only one!

I learned something ... in the end.

Regards,
JS

```
From -1285393504800818403
X-Google-Thread: fc2a5,457afec228588546,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!newsfeed.stanford.edu!
newsfeed.news.ucla.edu!ucdavis!not-for-mail
From: Skipp Says Hello <spammenotplease@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: rfamplifiers group on yahoo
Date: Mon, 29 Jan 2007 19:00:14 +0000 (UTC)
Organization: University of California, Davis
```

Lines: 7
Sender: Skipp May <skipp@vici.ucdavis.edu>
Message-ID: <eplg7u$7hb$1@skeeter.ucdavis.edu>
NNTP-Posting-Host: vici.ucdavis.edu
X-Trace: skeeter.ucdavis.edu 1170097214 7723 128.120.47.43 (29 Jan 2007 19:00:14
GMT)
X-Complaints-To: usenet@ucdavis.edu
NNTP-Posting-Date: Mon, 29 Jan 2007 19:00:14 +0000 (UTC)
User-Agent: tin/1.4.7-20030322 ("Suggestions") (UNIX) (SunOS/5.8 (sun4u))
Xref: g2news2.google.com rec.radio.amateur.homebrew:8855

Just another shameless plug for the yahoo rfamplifiers group. If you enjoy
rf and audio amplifiers please feel free to join.

http://groups.yahoo.com/group/rfamplifiers/

cheers,
s.

From 6105264374812325798
X-Google-Thread: fc2a5,4f4c5faa27fff86
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 29 Jan 2007 13:25:28 -0600
Date: Mon, 29 Jan 2007 20:25:48 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla Thunderbird 1.0.2 (X11/20050322)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Cell phone for homebrew ?
References: <Cjavh.2667$MN.2547@newssvr23.news.prodigy.net>
<12rqlm8smr76g07@corp.supernews.com>
In-Reply-To: <12rqlm8smr76g07@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <ubadnWhvqIa11yPYnZ2dnUVZ8s-qnZ2d@pipex.net>
Lines: 17
NNTP-Posting-Host: 71.107.26.158
X-Trace: sv3-
HfWIQrLhyjbg0ORM1vmxLDFnv40r2cRiLLgauS8o6b9gadJV5r5zXIg08OnCuJaFgO8zcRYSVbcJP8c!
p5YKMX8mqdVXvHHgDsz52ZT+Cg8heYy+AqF+ibEJGAEkpCCwdjdIpZY4tiG6HJtgwYOjDJ8NY5PZ!
14Td7EkJZKQB5iqj0FORv3oCRA==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32

```
Xref: g2news2.google.com rec.radio.amateur.homebrew:8856

>>I sure see lots of retired cell phones and wonder why I haven't seen any
>>homebrew projcts to make something useful out of old outdated ones.
>
>
> What kind of projects did you have in mind?
>
> These days with DigiKey, Mouser, etc. it's often easier just to design
> something from scratch, and that way anyone can build it (rather than trying
> to track down a specific model phone...).
================================
Old cell phones and other SMD stuffed equipment are excellent for
self-training  in SMD soldering ,before engaging in a project.
remove ---> clean pads ---> inspect with 8times magnif.glass
--->resolder -----> inspect -----> if necessary remove solder bridges
----->inspect ------>  DONE

Frank    KN6WH / GM0CSZ



From 7825238660822777857
X-Google-Thread: fcc6e,610be1f7863392c6,start
X-Google-Thread: 108122,610be1f7863392c6,start
X-Google-Thread: fc2a5,610be1f7863392c6,start
X-Google-Thread: 1109af,610be1f7863392c6,start
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!homer!news.glorb.com!news-
spur1.glorb.com!news.glorb.com!feed.cgocable.net!read1.cgocable.net.POSTED!
53ab2750!not-for-mail
From: "Norm VE3CZI" <ve3czi@arrl.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.swap
Subject: FS: Service Manuals for Commercial, Test Equipment  & Amateur Equipment
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <fDtvh.14$EO2.8@read1.cgocable.net>
Date: Mon, 29 Jan 2007 16:25:24 -0500
NNTP-Posting-Host: 24.141.95.162
X-Complaints-To: news@cogeco.net
X-Trace: read1.cgocable.net 1170105931 24.141.95.162 (Mon, 29 Jan 2007 16:25:31
EST)
NNTP-Posting-Date: Mon, 29 Jan 2007 16:25:31 EST
Organization: Cogeco Cable
Xref: g2news2.google.com rec.radio.amateur.antenna:24818
rec.radio.amateur.equipment:7969 rec.radio.amateur.homebrew:8857
rec.radio.swap:11158
```

Have a quantity of Test Equipment and Radio Communications Service Manuals, both Commercial & Amateur that I have rescued from the Dumpster. Most of them are in Like New Condition.

> Have recently updated the MOTOROLA & KENWOOD List <

Please check my site: www.rodemi.com   for what is available. Click on the MANUALS Heading.
I am updating the site as time allows.
I recently retired from the Commercial 2-way radio business and would like these useful manuals to find a good home.

Thanks for looking....Norm VE3CZI
Email me Directly: <insert Call Sign> at arrl.net ....<call sign> is ve3czi

---

```
From -8028466625608212514
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.velocitywest.net!
news.velocitywest.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 29 Jan 2007 19:06:33 -0600
Date: Mon, 29 Jan 2007 18:06:33 -0700
From: "H. P. Friedrichs" <nospam@please.com>
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.13) Gecko/20060414
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<45ba4491$0$171$540ea2cf@novia.net>   <XTruh.23$0B6.97376@news.sisna.com>
<45bae4f5$0$172$540ea2cf@novia.net>   <cUBuh.75$iB7.179326@news.sisna.com>
<3p1nr2hlrmgo05g8c05me802tisusehs37@4ax.com>
<EWLuh.175$3d.227432@news.sisna.com>
<sejqr218eim6pdcr1ks1sfuo2h387bd4oc@4ax.com>
<lucvh.97$Hq2.105576@news.sisna.com>   <QHovh.4$2g.126076@news.sisna.com>
<1170092149.128348.163870@v33g2000cwv.googlegroups.com>
In-Reply-To: <1170092149.128348.163870@v33g2000cwv.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <TPudnQaOWZuEByPYnZ2dnUVZ_uXinZ2d@velocitywest.net>
Lines: 51
NNTP-Posting-Host: 216.183.70.9
X-Trace: sv3-
hoa2+RH7K0H1MsPwNdJ5xTGHtUgyIF67Bqsf7Dth3cphW+y780G2q2dqES8wjlqvGFBX+xUcpn/FRy3!
afrAZy34sKWWxZTkIQ29h2h/8uXGo0pk3GyaDyFMdEmQYZ6qrjucDSgAVfeyT/N2MopfGtDWv+mH!
euyWRTDtvbOJkyyyG8gYiQMi
```

```
X-Complaints-To: abuse@velocitywest.net
X-DMCA-Complaints-To: abuse@velocitywest.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8858

Squire---

I tried to email you....it bounced back.

Pete
AC7ZL

eternalsquire@comcast.net wrote:
> The Dine' (I use the term Navajo because most people outside are
> more familiar with that) are a very proud people who would resent
> being made fun of like that.
>
> To the Dine', we are an alien people out of touch with the
> rhythms of the land, who are obsessed with consumer goods,
> technology, money, or bigotry.    Even such whites are ourselves
> who do see what history has done to the Dine' and find it
> appalling, are viewed as possibly having egotism.
>
> The Dine' are more impressed by whites who listen first then
> act later in small ways that fit what the Dine' already do.
>
> You have to live with the Dine' least a couple years before you
> can even begin to understand the challenge of introducing a
> new technology in a culturally appropriate manner.
>
> The Eternal Squire
>
>
> On Jan 29, 8:50 am, "RST Engineering" <j...@rstengineering.com> wrote:
>
>>That's true.  They sent one kid off to MIT and he came back with a degree in
>>Electrical Engineering.  When he got back home he found that the communal
>>restroom had no lights, so to show his gratitude to the tribe he ran
>>electricity to the bathroom.
>>
>>So far as we know, that was the first Indian ever to wire a^head for a
>>reservation.
>>
>>{;-)
>>
>>Jim
>>
>>"John Smith I" <assemblywiz...@gmail.com> wrote in
messagenews:lucvh.97$Hq2.105576@news.sisna.com...
>>
```

```
>>
>>
>>
>>>Some reservations have sent men to the best colleges and have some of the
>>>best attorneys in the world.
>
>



From 7520828318032064658
X-Google-Thread: fc8b1,6bf887b0c893a47a
X-Google-Thread: fc2a5,6bf887b0c893a47a
X-Google-Thread: f4535,6bf887b0c893a47a
X-Google-Attributes: gidfc8b1,gidfc2a5,gidf4535,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 29 Jan 2007 20:08:27 -0600
User-Agent: Microsoft-Entourage/10.0.0.1309
Date: Mon, 29 Jan 2007 18:08:26 -0800
Subject: Re: almost free: 10 Henry choke
From: Don Bowey <dbowey@comcast.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.audio.tubes
Message-ID: <C1E3E89A.56A62%dbowey@comcast.net>
References: <1170090075.341098.157390@l53g2000cwa.googlegroups.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
Lines: 25
NNTP-Posting-Host: 24.20.154.195
X-Trace: sv3-MbdTHjvLKWl7/dv7Y9CxTwBvf7dWLJj5hzMN0AX8ftbq8ViedDZ80BcaykEHWXRyM2W/
7uYpJBa6fyG!tsaXqfc/8BkpmNohPjhaSbp/nI/
wzi4pU+ghj7gCHnXkkbGQ+o6Mr7gABYjxik62cswwljV8
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7354
rec.radio.amateur.homebrew:8859 rec.audio.tubes:23943

On 1/29/07 9:01 AM, in article
1170090075.341098.157390@l53g2000cwa.googlegroups.com,
"radioanarchy@yahoo.com" <radioanarchy@yahoo.com> wrote:

> .....
>
> cleaning out the heavy junk, from the junk box:
>
> for beer money and postage:
```

>
> a used Triad   "Filter Reactor"   "C19A"
>
> 10 henries   105 ohms   300 mA   1 KV test insulation
>
> 2.75 by 3   inch   mounting holes.
>
>
>
> ......
>

What is your general area/QTH?

Don

```
From 1730672134447719133
X-Google-Thread: fc2a5,c1864e424667e522
X-Google-Thread: fc2a5,c1864e424667e522
X-Google-Thread: f4535,c1864e424667e522
X-Google-Attributes: gidfc2a5,gidfc2a5,gidf4535,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!
trnddc07.POSTED!32caf202!not-for-mail
From: "west" <restccq2@verizon.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.homebrew,rec.audio.tubes
References: <1170089669.967270.236830@a34g2000cwb.googlegroups.com>
Subject: Re: almost free: 6.3 VAC 10 amp filament transformer
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <6jAvh.1259$Ss1.165@trnddc07>
Date: Tue, 30 Jan 2007 05:01:54 GMT
NNTP-Posting-Host: 71.99.168.75
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc07 1170133314 71.99.168.75 (Tue, 30 Jan 2007 00:01:54 EST)
NNTP-Posting-Date: Tue, 30 Jan 2007 00:01:54 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8860 rec.audio.tubes:23945
```

C

<radioanarchy@yahoo.com> wrote in message
news:1170089669.967270.236830@a34g2000cwb.googlegroups.com...
> cleaning out junk box.
>
> for postage and beer money:
>
> a used Triad F-21A filament transformer.

>
> 115 to 6.3 VAC center-tapped @ 10 Amps.
>
> surely someone can use this.
>

```
From -1897843139042332700
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s48g2000cws.googlegroups.com!not-for-
mail
From: eternalsquire@comcast.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 30 Jan 2007 08:03:27 -0800
Organization: http://groups.google.com
Lines: 51
Message-ID: <1170173007.622477.52390@s48g2000cws.googlegroups.com>
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
   <45ba4491$0$171$540ea2cf@novia.net>
   <XTruh.23$0B6.97376@news.sisna.com>
   <45bae4f5$0$172$540ea2cf@novia.net>
   <cUBuh.75$iB7.179326@news.sisna.com>
   <3p1nr2hlrmgo05g8c05me802tisusehs37@4ax.com>
   <EWLuh.175$3d.227432@news.sisna.com>
   <sejqr218eim6pdcr1ks1sfuo2h387bd4oc@4ax.com>
   <lucvh.97$Hq2.105576@news.sisna.com>
   <QHovh.4$2g.126076@news.sisna.com>
   <1170092149.128348.163870@v33g2000cwv.googlegroups.com>
   <TPudnQaOWZuEByPYnZ2dnUVZ_uXinZ2d@velocitywest.net>
NNTP-Posting-Host: 67.142.130.41
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170173023 16323 127.0.0.1 (30 Jan 2007 16:03:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 30 Jan 2007 16:03:43 +0000 (UTC)
In-Reply-To: <TPudnQaOWZuEByPYnZ2dnUVZ_uXinZ2d@velocitywest.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s48g2000cws.googlegroups.com; posting-host=67.142.130.41;
   posting-account=RyqjfwwAAADvOapQHMNoJI3nvO5uDrpo
Xref: g2news2.google.com rec.radio.amateur.homebrew:8861
```

The why not say it here?

The Eternal Squire

```
On Jan 29, 6:06 pm, "H. P. Friedrichs" <nos...@please.com> wrote:
> Squire---
>
> I tried to email you....it bounced back.
>
> Pete
> AC7ZL
>
> eternalsqu...@comcast.net wrote:
> > The Dine' (I use the term Navajo because most people outside are
> > more familiar with that) are a very proud people who would resent
> > being made fun of like that.
>
> > To the Dine', we are an alien people out of touch with the
> > rhythms of the land, who are obsessed with consumer goods,
> > technology, money, or bigotry.    Even such whites are ourselves
> > who do see what history has done to the Dine' and find it
> > appalling, are viewed as possibly having egotism.
>
> > The Dine' are more impressed by whites who listen first then
> > act later in small ways that fit what the Dine' already do.
>
> > You have to live with the Dine' least a couple years before you
> > can even begin to understand the challenge of introducing a
> > new technology in a culturally appropriate manner.
>
> > The Eternal Squire
>
> > On Jan 29, 8:50 am, "RST Engineering" <j...@rstengineering.com> wrote:
>
> >>That's true.  They sent one kid off to MIT and he came back with a degree in
> >>Electrical Engineering.  When he got back home he found that the communal
> >>restroom had no lights, so to show his gratitude to the tribe he ran
> >>electricity to the bathroom.
>
> >>So far as we know, that was the first Indian ever to wire a^head for a
> >>reservation.
>
> >>{;-)
>
> >>Jim
>
> >>"John Smith I" <assemblywiz...@gmail.com> wrote in
messagenews:lucvh.97$Hq2.105576@news.sisna.com...
>
> >>>Some reservations have sent men to the best colleges and have some of the
> >>>best attorneys in the world.



From 2942288372664288280
X-Google-Thread: fc2a5,c186b5bccd56c868
X-Google-Thread: fc2a5,c186b5bccd56c868
```

X-Google-Thread: f4535,c186b5bccd56c868
X-Google-Attributes: gidfc2a5,gidfc2a5,gidf4535,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe11.lga.POSTED!53ab2750!not-for-mail
From: Sal Brisindi <salb203@optonline.SPAM.net>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.homebrew,rec.audio.tubes
Subject: Re: almost free: Thordarson transformers T-70R61
References: <1170173739.444046.43790@a34g2000cwb.googlegroups.com>
In-Reply-To: <1170173739.444046.43790@a34g2000cwb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 33
Message-ID: <QrLvh.11$Os.10@newsfe11.lga>
X-Complaints-To: abuse@cv.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bmdfcfhcjknbdddclhbgfpgcdpepfmkgkfhjidcdbllcenjnkaeacdddhnklminojafdipljibnmbabkhm
ddjbjnfehlhepgghmihkoglpcaacgfjgiipgmiddpoelogpkpgbggmkcdoddmf
NNTP-Posting-Date: Tue, 30 Jan 2007 10:42:08 MST
Organization: Optimum Online
Date: Tue, 30 Jan 2007 12:42:07 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8863 rec.audio.tubes:23954

radioanarchy@yahoo.com wrote:
> ..
>
> cleaning out the junk box.
>
>
> have three, and looks like they were never used:
>
> Thordarson power supply transformers.
> p/n T-70R61V
>
> 115 VAC to:
>
> 385-0-385 VAC @ 70 mA
>
> 5 VAC @ 2 A
>
> 6.3 VAC @ 2.5 A c.t.
>
>
>
> pay for postage, and the cost of me to get a beer, for each
>
>
>

>
> .....
>

Rian,
Check your email.

Thanks,
Sal

From 8190321286872169072
X-Google-Thread: fc2a5,f3d1d9fb0d099f87
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v45g2000cwv.googlegroups.com!not-for-mail
From: "rile" <aleksandar.ristovski@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where to buy large area copper clad boards in Canada?
Date: 30 Jan 2007 13:02:04 -0800
Organization: http://groups.google.com
Lines: 104
Message-ID: <1170190924.568652.75510@v45g2000cwv.googlegroups.com>
References: <1169170642.235265.208930@s34g2000cwa.googlegroups.com>
<1169182423.733076.147070@s34g2000cwa.googlegroups.com>
<1vidnbE0k5j-yS3YRVnytwA@pipex.net>
<eopl0u$nar$1@theodyn.ncf.ca>
<1169216316.854304.170480@51g2000cwl.googlegroups.com>
<B8qdnXr5nIqdRC3YnZ2dnUVZ_qSrnZ2d@magma.ca>
<1169429531.057192.172980@51g2000cwl.googlegroups.com>
NNTP-Posting-Host: 209.217.94.72
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170190939 5490 127.0.0.1 (30 Jan 2007 21:02:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 30 Jan 2007 21:02:19 +0000 (UTC)
In-Reply-To: <1169429531.057192.172980@51g2000cwl.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v45g2000cwv.googlegroups.com; posting-host=209.217.94.72;
posting-account=mCq0sg0AAADxZNW4clbYU_dBBcOZF18d
Xref: g2news2.google.com rec.radio.amateur.homebrew:8864

Just a follow-up, maybe someone finds it useful. I found 4 links for
Ottawa, Canada (in addition to digikey):

http://www.alliedelec.com   (online only)

Gervais Electronics Retail Walk-in
#1 - 716 Industrial Ave., Ottawa, Ontario, K1G 0Y9
Toll Free: 1-800-267-2742, Phone: 613-738-3101, Fax: 613-738-1188,

Email

Active Tech Electronics Retail Walk-in
1023 Merivale Rd., Ottawa, Ontario, K1Z 6A6
Phone: 613-728-7900, Fax: 613-728-3586

Reset Electronics Retail Walk-in
1050 Baxter Rd. Unit 10,Ottawa, Ont., K2C 3P1
Phone: 613-596-5544, Fax: 613-596-9079

Hope it helps someone.
On Jan 21, 8:32 pm, "rile" <aleksandar.ristov...@gmail.com> wrote:
> Thank you for your answer;
>
> I was at Cohen's but unfortunately they did not have any.
>
> FrankW wrote:
> > Cohen's on Merival had a bunch real cheap.
> > I'd check it out and while your there check
> > out Computer Recyclers on McFarland they might have some too.
>
> > rile wrote:
> > > ok, I was not precise. I am an amateur. What I am looking for is
> > > gettingcopperboard for less than what digikey is selling.
>
> > > When I say large, 12"x12" is large enough, even smaller. I think the
> > > keyword is "cheap", not "large".
>
> > > I used to buy (in Eorope) large sheets (by weight, i.e. cheap) and then
> > > cut the sizes I wanted. (where large is defined as approx 1m x 1m).
> > > Here in Canada, I could not google up anything similar.
>
> > > p.s. I am in Ottawa, ON
>
> > > Thank you!
>
> > > On Jan 19, 12:30 am, e...@FreeNet.Carleton.CA (Michael Black) wrote:
>
> > >>Highland Ham (abcgm0csz.kn6wh...@dsl.pipex.com) writes:
>
> > >>>>>I saw a simillar question for buyingcoppercladboard in UK, so I
> > >>>>>thought someone might have an answer for Canada...
>
> > >>>>>Thanks!
>
> > >>>>Define "large". Which part of Canada?
>
> > >>>>In Toronto I'd start with Active Surplus. In Vancouver, RP.
>
> > >>>>Laura Halliday VE7LDH   "That's a totally illegal,
> > >>>>Grid: CN89mg   madcap scheme. I like it!"
> > >>>>ICBM: 49 16.05 N 122 56.92 W   - H. Pearce
>

> > >>>===========================
> > >>>On some if not most european continental amateur radio fleamarkets
> > >>>cut-offs up to 1x1 ft are often sold by weight.
> > >>>I have a healthy stock enabling me to also homebrew enclosures.
>
> > >>>Is this material not available from surplus traders frequenting North
> > >>>American hamfests & fleamarkets ?
>
> > >>>Frank   KN6WH / GM0CSZThat's the sort of answer I would have given, but I wondered if it
>
> > >>was a trick question.
>
> > >>"Large area" suggests something really big, but if someone isn't
> > >>familiar with what is available, then "large" might mean something
> > >>more than a few inches.
>
> > >>In 35 years, I've never bought blank circuit board new. Starting
> > >>with wretched board that cracked when you cut it and thecoppercame
> > >>off when you soldered to it (but it was "surplus" and cheap at
> > >>Etco Electronics back then), and then buying it at hamfests, and
> > >>then the remaining old school electronic store here in Montreal (Addison
> > >>Electronics), blank circuit board of all kinds of thickness and sizes
> > >>and single or double sided has always been readily available.
>
> > >>You're right, it can usually be had so cheap that it is a great thing
> > >>to use for enclosures. Unlike plastic, it's can provide shielding, but
> > >>it's also a lot easier to work than equivalent thickness metal. I've
> > >>been known to strip off thecopperand use the bare board when I need
> > >>to make up some mechanical gadget, it being so easy to work with.
>
> > >>Addison often has board that has been drilled for some production work,
> > >>but not etched (or even had resist applied), which is even cheaper. I
> > >>can cut around it for small pieces, or if I'm just using the board for
> > >>soldering to, the holes aren't even noticed.
>
> > >>For the original poster, the Radio Amateurs of Canada have a website
> > >>athttp://www.rac.caandthey keep a list of upcoming hamfests, so it's
> > >>easy to watch for one coming up nearby. Though, it's really the off
> > >>season and I doubt there will be many until the spring.
>
> > >> Michael VE2BVW

From -6055997704316434573
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail

From: "RST Engineering" <jim@rstengineering.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<45ba4491$0$171$540ea2cf@novia.net>   <XTruh.23$0B6.97376@news.sisna.com>
<45bae4f5$0$172$540ea2cf@novia.net>   <cUBuh.75$iB7.179326@news.sisna.com>
<3p1nr2hlrmgo05g8c05me802tisusehs37@4ax.com>
<EWLuh.175$3d.227432@news.sisna.com>
<sejqr218eim6pdcr1ks1sfuo2h387bd4oc@4ax.com>
<lucvh.97$Hq2.105576@news.sisna.com>   <QHovh.4$2g.126076@news.sisna.com>
<1170092149.128348.163870@v33g2000cwv.googlegroups.com>
Subject: Re: Where does part 97 end and part 15 begin?
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <WPPvh.140$Rf2.209977@news.sisna.com>
Date: Tue, 30 Jan 2007 14:42:45 -0800
NNTP-Posting-Host: 70.41.242.222
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1170196854 70.41.242.222 (Tue, 30 Jan 2007 15:40:54 MST)
NNTP-Posting-Date: Tue, 30 Jan 2007 15:40:54 MST
Organization: Internet News Service
X-Received-Date: Tue, 30 Jan 2007 15:40:54 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8865

Speak for yourself. My grandmother was of the Crow Nation and it has been my observation that most evolved peoples have a sense of humor. You might consider getting your panties out of a wad and lightening up a bit. I ain't any happier than you that my ancestors gave the First Nation the smelly end of the stick, but we both know that time moves forwards, not backwards. It is what we do OURSELVES that we are accountable for, not the sins of our forebears.

I had teachers like you growing up ... sheesh.

Jim

    Even such whites are ourselves
> who do see what history has done to the Dine' and find it
> appalling, are viewed as possibly having egotism.

From 6952628907476271492
X-Google-Thread: fc2a5,aea53020b2337ce4,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!homer!news.glorb.com!news-
spur1.glorb.com!news.glorb.com!hwmnpeer01.lga!news.highwinds-media.com!hw-

```
filter.lga!newsfe23.lga.POSTED!53ab2750!not-for-mail
From: Kent <ve4keh@rac.ca>
User-Agent: Mozilla Thunderbird 1.0.7 (Windows/20050923)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Mid Course Quiz
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 4
Message-ID: <JLQvh.8925$uK1.1470@newsfe23.lga>
Date: Tue, 30 Jan 2007 23:44:34 +0000
NNTP-Posting-Host: 207.161.9.51
X-Complaints-To: http://support.highwinds-media.com
X-Trace: newsfe23.lga 1170200681 207.161.9.51 (Tue, 30 Jan 2007 16:44:41 MST)
NNTP-Posting-Date: Tue, 30 Jan 2007 16:44:41 MST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8866

David, from where did the mid course quiz come?  Where can I get the
answers (aside from photocopying what I already have)?

Kent



From -985966352625214545
X-Google-Thread: fc2a5,e7555b681bf03454,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr27.news.prodigy.net.POSTED!c74934b2!not-for-mail
From: Steve <kc5tfl@sbcglobal.net>
Subject: test
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.01.31.03.21.48.914408@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Reply-To: kc5tfl@sbcglobal.net
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 1
NNTP-Posting-Host: 65.69.222.181
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr27.news.prodigy.net 1170213582 ST000 65.69.222.181 (Tue, 30 Jan
2007 22:19:42 EST)
NNTP-Posting-Date: Tue, 30 Jan 2007 22:19:42 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1: OP]
[S\_GPRVAR_D[KBH\OFXBWR\HPCTL@XT^OBPLAH[\BQUBLNTC@AWZWDXZXQ[K\FFSKCVM@F_N_DOBWVWG_
_LG@VVOIPLIGX\
\BU_B@\P\PFX\B[APHTWAHDCKJF^NHD[YJAZMCY_CWG[SX\Y]^KC\HSZRWSWKGAY_PC[BQ[BXAS\F\
\@DMTLFZFUE@\VL
```

```
Date: Wed, 31 Jan 2007 03:19:42 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8867

test



From 5590202311694854769
X-Google-Thread: fc2a5,6120d18c20294c8d,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!homer!news.glorb.com!
news-spur1.glorb.com!news.glorb.com!newshub.sdsu.edu!newscon04.news.prodigy.net!
prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr27.news.prodigy.net.POSTED!c74934b2!not-for-mail
From: Steve <kc5tfl@sbcglobal.net>
Subject: Wanted: coil stock airdux
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.01.31.03.28.06.921431@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Reply-To: kc5tfl@sbcglobal.net
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 6
NNTP-Posting-Host: 65.69.222.181
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr27.news.prodigy.net 1170213960 ST000 65.69.222.181 (Tue, 30 Jan
2007 22:26:00 EST)
NNTP-Posting-Date: Tue, 30 Jan 2007 22:26:00 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1: OP]
[S\_GPRVAR_D[KBH\OFXBWR\HPCTL@XT^OBPLAH[\BQUBLNTC@AWZWDXZXQ[K\FFSKCVM@F_N_DOBWVWG_
_LG@VVOIPLIGX\
\BU_B@\P\PFX\B[APHTWAHDCKJF^NHD[YJAZMCY_CWG[SX\Y]^KC\HSZRWSWKGAY_PC[BQ[BXAS\F\
\@DMTLFZFUE@\VL
Date: Wed, 31 Jan 2007 03:26:00 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8868

Hello,
Im looking for some 3" @ 8tpi and some 2.5" @ 8tpi

Thanks
Steve KC5TFL
kc5tfl@sbcglobal.net



From -2518595051853634091
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.velocitywest.net!
news.velocitywest.net.POSTED!not-for-mail
```

NNTP-Posting-Date: Tue, 30 Jan 2007 21:46:31 -0600
Date: Tue, 30 Jan 2007 20:46:25 -0700
From: "H. P. Friedrichs" <nospam@please.com>
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.13) Gecko/20060414
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
References: <1169778210.634297.63500@a75g2000cwd.googlegroups.com>
<45ba4491$0$171$540ea2cf@novia.net> <XTruh.23$0B6.97376@news.sisna.com>
<45bae4f5$0$172$540ea2cf@novia.net> <cUBuh.75$iB7.179326@news.sisna.com>
<3p1nr2hlrmgo05g8c05me802tisusehs37@4ax.com>
<EWLuh.175$3d.227432@news.sisna.com>
<sejqr218eim6pdcr1ks1sfuo2h387bd4oc@4ax.com>
<lucvh.97$Hq2.105576@news.sisna.com> <QHovh.4$2g.126076@news.sisna.com>
<1170092149.128348.163870@v33g2000cwv.googlegroups.com>
<TPudnQaOWZuEByPYnZ2dnUVZ_uXinZ2d@velocitywest.net>
<1170173007.622477.52390@s48g2000cws.googlegroups.com>
In-Reply-To: <1170173007.622477.52390@s48g2000cws.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <ebqdnacqdpOKjF3YnZ2dnUVZ_sqdnZ2d@velocitywest.net>
Lines: 142
NNTP-Posting-Host: 216.183.70.9
X-Trace: sv3-InToRLg2ZLPtKhoF/
D+DR6yfbBXq3ITgY89DnzAcUgmBUWblf4BhBy6hoRe6HdymSiJbh6ZQ6dhSkeS!ahrPEk2/J/
nJdFZlIZFVsi82vEM2hhBNM13CzTVNRzMmR9gi/D3LBERMINE42XoRenheo9aTebMh!
mnOgcT6pddhtuiPHjyGf/19E
X-Complaints-To: abuse@velocitywest.net
X-DMCA-Complaints-To: abuse@velocitywest.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8869

Very well.

Andrew,

A few thoughts about your idea and some of the responses that it has evoked:

First off, I don't think your emphasis should be on transmitting. To me, ham radio is about communication, and communication, first and foremost, is about LISTENING. Listening is what you should emphasize.

Since there are both physical laws of nature and interference (natural and man-made) to contend with, the real magic in radio is the antenna, amplifier(s), filter(s), and operator techniques used to extract useful information from a feeble signal. (Case in point: Voyager 1 is now more than 9 BILLION miles from earth, but as long as its flea-power transmitter holds out, we expect to be able to continue receiving data.)

There is great fun in building simple receivers, and much to be learned.
A few years back, for lack of something better to do one evening, I knocked together a regenerative set on the bench top in the garage. I wound a coil on a toilet paper tube, made a grid-leak capacitor out of a couple of microscope slides and some foil, and hooked up an old #26 tetrode. The rig was "wired" with alligator leads and powered by flashlight batteries. The antenna was 15 feet of wire thumb tacked to the garage ceiling, and the ground was a 'gator clip attached to the cover plate screw of a nearby outlet. A few adjustments later and I found myself listening to a radio-theater presentation of "Dracula" put on by the BBC in London. That's more than 5000 miles from where I live. That's magic.

In your case, a FET based regenerative set would be the ticket. Dirt cheap and effective enough to be useful. (I'm thinking something along the lines of 1 FET RF/isolation, 1 FET regen stage, and an LM386 amp chip, which will easily drive common walkman-style headphones.)

If you want to teach your kids Morse, use the Code Quick method. Buy a copy of a program called Numorse for yourself, and use this to generate exercises for the kids. You can put the audio on cassette tape or CD's.
When they get up to 5 WPM or so, you have them listen to W1AW. The day after a W1AW session you ask the kids some specific question about the text that was sent the previous night. Offer prizes or some kind of encouragement for positive responses. Once they can receive Morse, learning to send is rather easy.

This is something of a detour, but have you ever heard recordings of sounds the Ionosphere makes? Remarkable chirps, whistles, clicks, and pops. Slow down the recordings and you get sounds that are startlingly similar to the songs of certain birds, or the calls of whales. The equipment to capture this is cheap and easy to build. This is one situation where a remote location is a real asset, because there is far less man-made electrical noise to foul your recordings. Get a kid hooked on something like this, and who knows what kind of scientific or technical career could develop from this experience.

If you insist on transmitting, or equipping your students to transmit before they even have the skills to do so properly, fine, so long as you are certain that your activities are within the boundaries of the law. With regard to the comments of some in this thread I will simply say that the last thing society needs is a "mentor" whose first lesson will essentially be: "If you don't like the rules just ignore them." I am of the opinion that the preponderance of this attitude is responsible for much of the unhappiness in this world.

Final thought. I few years back I authored a book on the subject of primitive radio, and how to build radio components from scratch. This includes homemade variable capacitors, tuning coils, detectors, and even headphones. The equipment is built with hand tools and made from such mundane source material as wood, tin cans, cabinet magnets, and cigarette lighter parts.

Web link: http://www.hpfriedrichs.com/bks-votc.htm

This book has been critically acclaimed by the editors of QST and Practical Wireless in the U.K., and is recommended by at least one teacher's guide:
http://www.libraryvideo.com/guides/N7003.pdf?mscssid=B7EATDCXALG28J0F5NE5J92CHF5S8T4A

I am sensitive to educational and charitable concerns. If you should express serious interest in using these in a classroom setting, we could discuss how to make this happen.

73

H P "Pete" Friedrichs
AC7ZL

eternalsquire@comcast.net wrote:
> The why not say it here?
>
> The Eternal Squire
>
> On Jan 29, 6:06 pm, "H. P. Friedrichs" <nos...@please.com> wrote:
>
>>Squire---
>>
>>I tried to email you....it bounced back.
>>
>>Pete
>>AC7ZL
>>
>>eternalsqu...@comcast.net wrote:
>>
>>>The Dine' (I use the term Navajo because most people outside are
>>>more familiar with that) are a very proud people who would resent
>>>being made fun of like that.
>>
>>>To the Dine', we are an alien people out of touch with the
>>>rhythms of the land, who are obsessed with consumer goods,
>>>technology, money, or bigotry.   Even such whites are ourselves
>>>who do see what history has done to the Dine' and find it
>>>appalling, are viewed as possibly having egotism.
>>
>>>The Dine' are more impressed by whites who listen first then
>>>act later in small ways that fit what the Dine' already do.
>>
>>>You have to live with the Dine' least a couple years before you
>>>can even begin to understand the challenge of introducing a
>>>new technology in a culturally appropriate manner.
>>
>>>The Eternal Squire
>>

```
>>>On Jan 29, 8:50 am, "RST Engineering" <j...@rstengineering.com> wrote:
>>
>>>>That's true.  They sent one kid off to MIT and he came back with a degree in
>>>>Electrical Engineering.  When he got back home he found that the communal
>>>>restroom had no lights, so to show his gratitude to the tribe he ran
>>>>electricity to the bathroom.
>>
>>>>So far as we know, that was the first Indian ever to wire a^head for a
>>>>reservation.
>>
>>>>{;-)
>>
>>>>Jim
>>
>>>>"John Smith I" <assemblywiz...@gmail.com> wrote in
messagenews:lucvh.97$Hq2.105576@news.sisna.com...
>>
>>>>>Some reservations have sent men to the best colleges and have some of the
>>>>>best attorneys in the world.
>
>



From 2997698778313647767
X-Google-Thread: fc2a5,43906642a86de17a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!news.kjsl.com!
ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where does part 97 end and part 15 begin?
Date: 31 Jan 2007 04:10:19 GMT
Organization: The National Capital FreeNet
Lines: 51
Message-ID: <epp4rb$6cb$1@theodyn.ncf.ca>
References: <cUBuh.75$iB7.179326@news.sisna.com>
<3p1nr2hlrmgo05g8c05me802tisusehs37@4ax.com>
<EWLuh.175$3d.227432@news.sisna.com>
<sejqr218eim6pdcr1ks1sfuo2h387bd4oc@4ax.com>
<lucvh.97$Hq2.105576@news.sisna.com>   <QHovh.4$2g.126076@news.sisna.com>
<1170092149.128348.163870@v33g2000cwv.googlegroups.com>
<TPudnQaOWZuEByPYnZ2dnUVZ_uXinZ2d@velocitywest.net>
<1170173007.622477.52390@s48g2000cws.googlegroups.com>
<ebqdnacqdpOKjF3YnZ2dnUVZ_sqdnZ2d@velocitywest.net>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1170216619 6539 134.117.136.48 (31 Jan 2007 04:10:19 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 31 Jan 2007 04:10:19 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8870

"H. P. Friedrichs" (nospam@please.com) writes:
```

> This is something of a detour, but have you ever heard recordings of sounds the Ionosphere makes? Remarkable chirps, whistles, clicks, and pops. Slow down the recordings and you get sounds that are startlingly similar to the songs of certain birds, or the calls of whales. The equipment to capture this is cheap and easy to build. This is one situation where a remote location is a real asset, because there is far less man-made electrical noise to foul your recordings. Get a kid hooked on something like this, and who knows what kind of scientific or technical career could develop from this experience.
>

I sort of said something along the same lines, though maybe it's not apparent.

The idea of something more open-ended seems more important than a funneling into something specific. I don't think anyone could see anything wrong with getting the kids interested and even excited about science and technology. But how you get them there can be a mystery. Somethingt sparks an interest in one child, and not in another. The goal can't be about the kids getting a ham license, it has to be the benefits they might get from being involved in the hobby. And there are all kinds of things that might provide similar benefits, and might suit the kids more than spending time preparing them for a ham license. The effort might be better spent on getting them interested in something that fits them, and letting that be a vector for learning.

Too often, adults forget what it's like to be young, and they use adult notions in trying to interpret the young. So often there is the "kids today aren't interested in science" yet if they aren't given the chance they never will be. And of course, science was never something belonging to all. Building that regen receiver and getting it working should be as much of a challenge and thrill as it was back when I was young, because it's not about having the receiver (which won't compare with something store bought) but that you built it yourself.

I threw together a stepping motor, diode, "super-cap" and LED to make a crank flashlight a couple of months ago. I'm still trying to remember where I put the other supercaps I took out of VCRs, because there wasn't enough capacity. But I was making it to show the daughter of a friend, who is about the right age to appreciate that such things are in the realm of making yourself. It doesn't matter that you can buy such things pretty cheaply now, it matters that it conveys that such things don't just grow on trees.

If we aren't doing this sort of thing, conveying that we are intrigued by such things and showing off how it's not a black box beyond our control but something we can put together from scrap parts, then there's no chance that the young will become interested in science and technology.

Michael VE2BVW

From 2090038833687004805

```
X-Google-Thread: fc2a5,33b958b226d42bd3,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m58g2000cwm.googlegroups.com!not-for-
mail
From: "Gus" <gusrego@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Cutis Keyer CK-200 Vectronics Schematic Request
Date: 31 Jan 2007 00:13:11 -0800
Organization: http://groups.google.com
Lines: 10
Message-ID: <1170231190.958901.229220@m58g2000cwm.googlegroups.com>
NNTP-Posting-Host: 68.59.71.32
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170231196 2923 127.0.0.1 (31 Jan 2007 08:13:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 31 Jan 2007 08:13:16 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; PPC Mac OS X; en) AppleWebKit/418.9.1
(KHTML, like Gecko) Safari/419.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m58g2000cwm.googlegroups.com; posting-host=68.59.71.32;
   posting-account=Rfzs6Q0AAADUM5eKmRd9hGrPqxKx2uND
Xref: g2news2.google.com rec.radio.amateur.homebrew:8871
```

I may have to go into my CK-200 to modify it to work with a keyer i have. I would GREATLY (PLEASE!!!!) appreciate if someone could post a schematic of this little puppy.. IF someone could help, i would be so indebted.

Gus Rego

Cutis Keyer CK-200 Vectronics Schematic Request

```
From -2145905980403530602
X-Google-Thread: fc2a5,33b958b226d42bd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 31 Jan 2007 04:52:53 -0600
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1170231190.958901.229220@m58g2000cwm.googlegroups.com>
Subject: Re: Cutis Keyer CK-200 Vectronics Schematic Request
Date: Wed, 31 Jan 2007 04:52:49 -0600
X-Priority: 3
X-MSMail-Priority: Normal
```

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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <ZtCdnZZL6qCY6F3YnZ2dnUVZ_rWnnZ2d@comcast.com>
Lines: 48
NNTP-Posting-Host: 24.14.246.77
X-Trace: sv3-aXW1g+wTPboQVfMQp02/J/Z2w0c5eQ5fNI8idihOP//
bCGfSIBSlvOzQ0W6kuoDK8AlKVSR0YAUNg3F!/
37XRGw+C55l4qvp3Lzbpv1P9q+MyHVqGLBNuDMq73BnbTrk/oTH6gstk2GJHf7FToVdR7Xg8aZX!
MXldHKjJqsrvieau8g==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8872
```

The CK-200 Keyer features a Curtis 8044 ABM Keyer Chip with adjustable
weight and tone, volume and speed controls, and dot-dash memories

The CK-200 manual (Adobe Acrobat) on the Vectronics web site -- is DAMAGED.
Please contact Vectronics directly concerning this issue.
http://www.vectronics.com/manuals.php

eHam.net reviews of CK-200
http://www.eham.net/reviews/detail/1131

Here is the 8044 Application Notes - by John Curtis (circa 1992)
This should get you 90% there - since most designs were based upon John's notes!
http://users.ox.ac.uk/~malcolm/radio/8044screen.pdf

8044ABM. This final keyer chip was introduced in the spring of 1986.
It incorporated selectable A or B modes and the speed meter.
This truly was a top of the line chip, and became an industry standard.
However, as microcontrollers debuted in the '80s and PIC processors in 1990s -
the Curtis chips were no longer in demand. John stopped selling them.
MFJ / Vectronics purchased the 8044 line and now offers an improved 8045ABM.
Curtis ceased operations April 1, 2000.
http://www.mfjenterprises.com/products.php?prodid=CK-8045ABM

CK-8045ABM manual and technical sheet
http://www.mfjenterprises.com/man/pdf/CK-8045ABM.pdf

History of Curtis Keyers
http://www.arrl.org/news/features/2002/02/04/2/?nc=1

w9gb

"Gus" <gusrego@comcast.net> wrote in message

news:1170231190.958901.229220@m58g2000cwm.googlegroups.com...
>I may have to go into my CK-200 to modify it to work with a keyer i
> have. I would GREATLY (PLEASE!!!!) appreciate if someone could post a
> schematic of this little puppy.. IF someone could help, i would be so
> indebted.
>
>
> Gus Rego
>
> Cutis Keyer CK-200 Vectronics Schematic Request
>

From -3608206355243351067
X-Google-Thread: fc2a5,33b958b226d42bd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 31 Jan 2007 04:56:11 -0600
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1170231190.958901.229220@m58g2000cwm.googlegroups.com>
Subject: Re: Cutis Keyer CK-200 Vectronics Schematic Request
Date: Wed, 31 Jan 2007 04:56:08 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <VOKdnctz_ZtW6F3YnZ2dnUVZ_o6gnZ2d@comcast.com>
Lines: 28
NNTP-Posting-Host: 24.14.246.77
X-Trace: sv3-xfKWLLbz63ltAawdsvuv3zpqwq6jYi/
xQJvWv2urKtDk6zx9ia3P7rql6OfxVs4K1ez46GsHFpmVwhy!O+lBCTrnq8EHchYJC/
5bghEbZSaB0h7LluFrmaOv2qr6z52RXIbBHAQn6QHBMxN+xWH/SsPoe1m2!jnDWMDBQsTHLhrqePg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8873

CORRECTION, the CK-200 uses the currently avaialble 8045ABM chip (28-pin)

The CK-200 Keyer features a Curtis 8045 ABM Keyer Chip with adjustable
weight and tone, volume and speed controls, and dot-dash memories

MFJ offers the improved 8045ABM

http://www.mfjenterprises.com/products.php?prodid=CK-8045ABM

CK-8045ABM manual and Technical Application Notes
http://www.mfjenterprises.com/man/pdf/CK-8045ABM.pdf

w9gb

"Gus" <gusrego@comcast.net> wrote in message
news:1170231190.958901.229220@m58g2000cwm.googlegroups.com...
>I may have to go into my CK-200 to modify it to work with a keyer i
> have. I would GREATLY (PLEASE!!!!) appreciate if someone could post a
> schematic of this little puppy.. IF someone could help, i would be so
> indebted.
>
>
> Gus Rego
>
> Cutis Keyer CK-200 Vectronics Schematic Request
>

From 3357687165721648641
X-Google-Thread: fc2a5,a76274d344865ea2,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!homer!news.glorb.com!news-spur1.glorb.com!news.glorb.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!newssvr27.news.prodigy.net.POSTED!c74934b2!not-for-mail
From: Steve <kc5tfl@sbcglobal.net>
Subject: Wanted: Airdux Coil Stock
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2007.01.31.03.17.37.983109@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Reply-To: kc5tfl@sbcglobal.net
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 6
NNTP-Posting-Host: 65.69.222.181
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr27.news.prodigy.net 1170213331 ST000 65.69.222.181 (Tue, 30 Jan 2007 22:15:31 EST)
NNTP-Posting-Date: Tue, 30 Jan 2007 22:15:31 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1: SCSYQNONFBSYB]
\YLJIB^_@@YJ_FBL@MAHU^_BAMEH]TCDYG^WHAQFW[ML\THRCKV^GGZKJMGV^^_JSCFFUA_QXFGVSCYRPI
LH]TRVKC^LSN@DX_HCAFX__@J\DAJBVMY\ZWZCZLPA^MVH_P@\
\EOMW\YSXHG__IJQY_@M[A[[AXQ_XDSTAR]\PG]NVAQUVM
Date: Wed, 31 Jan 2007 03:15:31 GMT

Xref: g2news2.google.com rec.radio.amateur.homebrew:8874

Hello,
I'm needing some 3" coil stock 8tpi and some 2 1/2' at 8tpi.

Thanks
Steve KC5TFL
kc5tfl@sbcglobal.net

From 1497289680633818369
X-Google-Thread: fc2a5,2e6ed5ce79f489a8,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a34g2000cwb.googlegroups.com!not-for-mail
From: "hxc98@yahoo.com" <hxc98@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Vista compatibility with APRSPoint
Date: 31 Jan 2007 04:39:18 -0800
Organization: http://groups.google.com
Lines: 6
Message-ID: <1170247158.438646.174980@a34g2000cwb.googlegroups.com>
NNTP-Posting-Host: 58.19.35.101
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1170247163 6470 127.0.0.1 (31 Jan 2007 12:39:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 31 Jan 2007 12:39:23 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.2; SV1; .NET CLR 1.1.4322; Alexa Toolbar),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a34g2000cwb.googlegroups.com; posting-host=58.19.35.101;
   posting-account=qkd21QwAAAAs0AsHsbNsv0PdNKEViQPM
Xref: g2news2.google.com rec.radio.amateur.homebrew:8875

We did extensive testing with APRSPoint on the new Vista OS, so far
all functionalities worked with no problems. The usb/serial
converter(IO Gear GUC232A) we used is also accepted by Vista using its
XP driver. Vista seems to have good backward compatibility, and the
interface looks nicer. Visit http://www.aprspoint.com for more details.

From -4885473600307109428
X-Google-Thread: fc2a5,1fdda873784087dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread1.news.pas.earthlink.net.POSTED!84ef5383!not-for-mail
From: "Brian" <kb9bvn@earthlink.net>

Newsgroups: rec.radio.amateur.homebrew
References: <1170079761.013134.323880@l53g2000cwa.googlegroups.com>
Subject: Re: Two QRP questions, one easy, the other, tricky...
Lines: 39
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <F%0wh.19002$w91.475@newsread1.news.pas.earthlink.net>
Date: Wed, 31 Jan 2007 13:40:53 GMT
NNTP-Posting-Host: 76.2.192.200
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1170250853 76.2.192.200 (Wed, 31 Jan 2007 05:40:53 PST)
NNTP-Posting-Date: Wed, 31 Jan 2007 05:40:53 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8876

The "Little Joe" is actually Wes Hayward's W7ZOI Universal QRP Transmitter.

Go here for parts and schematic: http://www.qsl.net/k0kp/hbrew/qrp_tx.html

As for part two, in comparing the two datasheets, I don't see all that much that is similar between the two other than they are both NPN. You could try it though. If it doesn't work, a handful of PN2222's can be had for less than a couple of bucks.

73

"mister35mm" <mister35mm@yahoo.co.uk> wrote in message
news:1170079761.013134.323880@l53g2000cwa.googlegroups.com...
> 1. Ok, easy question first. Someone has given me a PCB for a QRP
> transmitter called "little joe" and the PCB has 9-81 QST. I have
> searched on the web but I cannot find the component layout, and,
> ideally, a copy of the original article.
>
>
> 2. I have been playing around with a simple transmitter project called
> the Michigan Mighty Mite (http://cs.okanagan.bc.ca/ve7ouc/eng/kc6wdk-
> mirror/transmitter.html) which uses any one of a number of small
> signal NPN transistors. As I found a large number of metal cased NPN
> power transistors, I was wondering if I can drop one of these as a
> direct substitute for say, a 2n2222, or an old BFY51 etc etc. I have,
> for example, found a RCA 2n6282 Darlington Pair in my junk box. This
> is a VERY meaty little beast. The datasheet for this tranny can be
> seen here:- http://www.datasheetcatalog.com/datasheets_pdf/2/N/
> 6/2/2N6282.shtml
>
> Any suggestions?
>

> Stephen Walters
> mister 35 mm AT ya-hoo dot co dot uk
>

```
From 2732648064666372590
X-Google-Thread: fc2a5,8425b2cad2e3671c,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 31 Jan 2007 09:17:31 -0600
Message-ID: <Jxv0GDRFELwFFAt9@ifwtech.co.uk>
Date: Wed, 31 Jan 2007 15:08:53 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: When is a hybrid not a hybrid?
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<5mwkzTBRO5sETFKkGhyHHc+YXH>)
Lines: 91
NNTP-Posting-Host: 82.153.121.54
X-Trace:
sv3-8iI1rl99lvxQw2+B+Do0vGd4BK4y+J5CBOC0VFzjoEfUSV2St9VrhPuqJtwbfafZNXpRA+/
aUyxBv6J!CSNqZYDLEh2gMlw1Xb32t7H7AHpeCbaTZfV99Zm0kyun/
fQ5c4d9BBjlDhx4S1oQwtMVZIFJkw==
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8877
```

Someone has asked my magazine column where the name "hybrid coupler" came from; and why do some people reserve the name "hybrid" for only certain types of couplers?

That isn't as easy a question as it first seems. Everybody seems to talk about "hybrids" but few authors are prepared to define exactly what it means - much less explain why.

The following is a draft outline for my magazine article. It looks much more authoritative than I actually feel about the subject - especially about the origins of the term "hybrid", so I would welcome any comments...

Hybrid is originally a biological term for a "cross-breed" that inherits different characteristics from two different kinds of parents. The word has then taken on a much wider sense - for example, we talk about "hybrid road vehicles" or "hybrid analogue/digital systems".

However, a "hybrid coupler" is a much more specific term, which came from the early days of landline telephony. Originally, a two-conductor line could only be used in one direction at a time; but with a hybrid coupler [Figure] at both ends, that single line can be used for full duplex communication in both directions. An important feature is that the coupler provides isolation between the links in opposite directions [insert more description here, including bidirectional amplifiers].

So why was this device specifically called a "hybrid" coupler? There's nothing particularly hybrid about the coupler, so my best guess is that the word originally applied to the communication link - the bidirectional offspring of two unidirectional parents. But in the strange way that technical language evolves, "duplex" has become the common word for a bidirectional link, while "a hybrid" has come to mean the coupler itself. The same word has then been applied to RF couplers that share some of the characteristics of the original telephone hybrid.

The best descriptions of RF hybrid couplers I've been able to find on the web are in:
http://en.wikipedia.org/wiki/Power_dividers_and_directional_couplers
and:
http://www.rfcafe.com/references/electrical/directional%20coupler.htm

In RF engineering the name "hybrid" has become attached to the 4-port coupler in [Figure]. When ports 2, 3 and 4 are matched, the input power at port 1 is divided equally between ports 2 and 3, with a phase shift of 90deg between the two output ports. Since half the input power appears at each output port, the transmission loss to each individual port is 3dB, so this device is sometimes called 3dB coupler. The reason why this device is called a hybrid is because of the port-to-port isolation it provides. In the matched condition, ports 2 and 3 are isolated from each other, and port 4 is isolated from port 1. [Add more details of the 3dB/ 90deg/quadrature coupler configuration.]

However, the Wikipedia author(s) also point out that nowadays "any matched 4-port with isolated arms and equal power division is called a hybrid or hybrid coupler." This wider definition also includes 0deg hybrids and 180deg hybrids, in addition to the original 90deg variety. Some 3-port devices are also called hybrids because they provide isolation between the output ports and have a 'virtual' internal 4th port, an example being the Wilkinson 0deg power divider.

Of course, some devices that do not meet every part of the above definition may still be called "hybrids" in practice. And a device that offers port-to-port isolation is likely to have other names as well, eg it may be called a "bridge". Are we confused enough yet?

Originally all these definitions were also restricted to passive linear devices, but as op-amps get faster and faster, and move up into the RF domain, it becomes possible to create the same port-to-port behaviour using active devices. It is now possible to build active hybrids that can operate up to at least 100MHz, and their advantage over transformer-based hybrids is that they have no lower-frequency limit. However, any hybrid still has to be a linear device.

[More to add...]

How does that look, as a first draft? I would particularly appreciate comments on the probable history of the word "hybrid" in telephony and electronics.

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

```
From 6100751227396354604
X-Google-Thread: fc2a5,fd872d86d1585f08
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o58g2000hsb.googlegroups.com!not-for-
mail
From: skavanagh72nospam@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: surplus microwaves doors openers
Date: 10 Jan 2007 06:42:07 -0800
Organization: http://groups.google.com
Lines: 16
Message-ID: <1168440127.564736.300360@o58g2000hsb.googlegroups.com>
References: <1168206548.512735.312250@q40g2000cwq.googlegroups.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1168440129 25004 127.0.0.1 (10 Jan 2007 14:42:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 10 Jan 2007 14:42:09 +0000 (UTC)
In-Reply-To: <1168206548.512735.312250@q40g2000cwq.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o58g2000hsb.googlegroups.com; posting-host=216.208.52.15;
   posting-account=0Ys2Eg0AAADOQYhHmHwRZ2EGbJYic2GH
```

```
Xref: g2news2.google.com rec.radio.amateur.homebrew:8616
```

mike wrote:

> I'm looking since a long time, a compagny that sells surplus microwaves
> doors openers (solfan modules or similar).

One possibility is http://www.shfmicro.com/ (in USA)

They have only the microwave modules, not the rest. Currently the
website shows only varactor-tuned units, while SOLFAN's are nominally
only mechanically tuned. These are more expensive than the simpler
units more commonly used in door openers or intrusion alarms. Their
stock varies from day to day.

73,
Steve VE3SMA

```
From 5465257159841328661
X-Google-Thread: fc2a5,dd74b72dddcdcfdb
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i39g2000hsf.googlegroups.com!not-for-
mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal Ham Receiver (cont.)
Date: 10 Jan 2007 08:36:47 -0800
Organization: http://groups.google.com
Lines: 48
Message-ID: <1168447007.097109.212240@i39g2000hsf.googlegroups.com>
References: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1168447008 27996 127.0.0.1 (10 Jan 2007 16:36:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 10 Jan 2007 16:36:48 +0000 (UTC)
In-Reply-To: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i39g2000hsf.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news2.google.com rec.radio.amateur.homebrew:8617
```

bcdlr wrote:
> I know I'm not ready to build my own receiver, unless I went the micro
> R2 route (I'm going to build one some day).

You can build yourself a regen out of literally junk box parts. Direct conversion is a step up and not much harder. The micro R2 is even nicer.

> But that still doesn't solve my need for a ham band(s) receiver - to
> use as a receiver and as a necessary piece of test equipment.

If you are looking for "the ultimate receiver as a first step" then homebrewing is NOT for you.

> I know that the Drake 2b is good. But how easy (and cheap) is it to get
> one? Are most "wore" out?
> I've heard that a common ailment is that the mechanical filter will be
> screwed up.

They weren't talking about the 2B then. The 2B is LC filtering throughout. It's nice for the era.

> What are some receivers to look for (don't say the Collins - I don't
> have enough money)?

The new $100 shortwave receivers with a BFO will get CW and SSB OK. Not spectacularly well.

Again, you seem to be struggling with both building your first receiver, and making it the end-all-and-be-all-receiver that you'll never need another one. Those are largely incompatible goals.

You can build yourself a little QRP transceiver for a smallish amount of money. Will probably only cover one band and only the CW section, but that's OK.

You can buy an older all-ham-band (well, pre-WARC) transceiver for circa $100-$200. Might take some tweaking/cleaning, but that'll be good for you to learn. Will do CW and SSB just fine, maybe even AM and FM too if you want that (of very marginal use for most ham activities).

Test equipment on the used market is outrageously cheap. You could set yourself up with a dual-channel scope and a frequency counter for $200 real easy, less if you shop around. This sort of stuff would've been unobtanium to a ham in the 60's or early 70's.

Tim.

From 2318189424529426442
X-Google-Thread: fc2a5,dd74b72dddcdcfdb
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail

NNTP-Posting-Date: Wed, 10 Jan 2007 10:58:04 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
Subject: Re: Ideal Ham Receiver (cont.)
Date: Wed, 10 Jan 2007 10:58:15 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <7I6dnVhp6umBhjjYnZ2dnUVZ_sSmnZ2d@comcast.com>
Lines: 39
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sRt4yvMHAh66JQRpAJY3sxqRM+B!2+YdbL6poFhY
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8618

The only mechanical filters that I have seen problems with are the Japanese units that you find in the JRC receivers. There is some sort of foam that deteriorates over the years. I haven't seen a problem with Collins filters. Receivers don't "wear out". With an older receiver, however, it's a good bet that you will have to replace the electrolytic caps and replace all of the carbon composition resistors that have drifted up in value over the years. I took a different approach....................years ago, I also couldn't affort the top end receivers so I learned how to design my own high performance units. It was quite a learning experience, and it is a good way to go. This experience has landed me a few high paying jobs in the field. Give it a try!

Pete

"bcdlr" <on30ng@gmail.com> wrote in message
news:1168401169.336442.209860@i39g2000hsf.googlegroups.com...
> Guys that was a great discussion...
> But I still have a question or two. Well actually a lot more than that
> but we can't answer them all.
> ---
> I know I'm not ready to build my own receiver, unless I went the micro
> R2 route (I'm going to build one some day).
> But that still doesn't solve my need for a ham band(s) receiver - to
> use as a receiver and as a necessary piece of test equipment.
> ---
> I know that the Drake 2b is good. But how easy (and cheap) is it to get
> one? Are most "wore" out?
> I've heard that a common ailment is that the mechanical filter will be

> screwed up.
> What are some receivers to look for (don't say the Collins - I don't
> have enough money)?
> BTW, got the EMRFD for Christmas. I like reading it but I have a lot to
> learn...
> Thanks,
> Dan KB9JLO
> <><
>

From 6644783837389435517
X-Google-Thread: fc2a5,dd74b72dddcdcfdb
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i39g2000hsf.googlegroups.com!not-for-mail
From: "bcdlr" <on30ng@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal Ham Receiver (cont.)
Date: 10 Jan 2007 09:17:32 -0800
Organization: http://groups.google.com
Lines: 49
Message-ID: <1168449451.949614.74790@i39g2000hsf.googlegroups.com>
References: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
   <1168447007.097109.212240@i39g2000hsf.googlegroups.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1168449453 1436 127.0.0.1 (10 Jan 2007 17:17:33 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 10 Jan 2007 17:17:33 +0000 (UTC)
In-Reply-To: <1168447007.097109.212240@i39g2000hsf.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.9)
Gecko/20061206 Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i39g2000hsf.googlegroups.com; posting-host=198.51.216.55;
   posting-account=cHaz4A0AAABSvgBXdvZeKRmzV_BI715_
Xref: g2news2.google.com rec.radio.amateur.homebrew:8619

All good answers. The main reason I was not going to build a Micro R2
was not the building but the single band.
I wanted something multiple band and as to frequency readout I was
thinking of adding a digital dial.
This guy has a neat (and cheap) frequency counter:
http://www.foxdelta.com/products/fc2.htm
And the shipping is only $5 to the US. (Haven't bought from him yet or
before, BTW).

Yes, I'm trying to maximize my purchase but I don't expect it to do

everything. And I probably should just bite the bullet and build
something but I'd like to have something commercial to fall back on.
This maybe werid reasoning but I'm trying to stay away from a
transceiver because I don't want the transmitter part. I want to try
and build my own transmitters and transceivers.
My first big project plan is to build a BITX20 SSB transceiver. I've
had a blast on 20 meter QRP SSB.
I've built an antenna tuner (Hans Summers' site) and I just finished a
KD1JV 'Tenna Tuner' - that's how I found out my frequency counter was
shot. It was given to me a year or so ago and I had never really used
it.
I also have a Softrock 6.x 40 M receiver I just finished but haven't
tested yet and a Micro 80 XCVR in the same boat (Micro80 is a Russian
Pixie type rig). I also have a AMQRP DDS60 on the bench but haven't
started it yet.
I have a RF signal generator (old Heathkit), two o'scopes but both are
low bandwidth, one is an old Tektronix solid state 3", 4 MHz BW and the
other is some dual trace that is like 5 or 10 MHz - but frankly I don't
remember how to use them correctly. I have a DMM, an AADE LC meter (I
love this thing), some odds and ends single board stuff I've built.
As one of you said, I need something to listen to the oscillator
with... But I'd like just a tad bit more.
Could I really get by with a newer digital dial SW receiver? I thought
they were just too wide open on the front end side to be any good at
all.
I have been eyeing the Drake R4 series... But that's probably more
liquid cash then I have.

Please keep it coming. I learning and asking questions. And some of it
is really starting to make sense!! :-)
---
On the receiver I've put messages on eHam and QRZ for a 'receiver
wanted' - I have some P4 class desktop machines I could trade, but I
haven't gotten any nibbles at all yet. I've been hesitant to put the
same message on rec.radio.swap due to the volume of traffic there.

Dan KB9JLO
<><

From 5059105631510223557
X-Google-Thread: fc2a5,dd74b72dddcdcfdb
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!newsfeed.stanford.edu!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal Ham Receiver (cont.)
Date: 10 Jan 2007 17:53:20 GMT
Organization: The National Capital FreeNet
Lines: 61

Message-ID: <eo396g$5fg$1@theodyn.ncf.ca>
References: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
<1168449451.949614.74790@i39g2000hsf.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1168451600 5616 134.117.136.48 (10 Jan 2007 17:53:20 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 10 Jan 2007 17:53:20 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8620

"bcdlr" (on30ng@gmail.com) writes:

> All good answers. The main reason I was not going to build a Micro R2
> was not the building but the single band.
> I wanted something multiple band and as to frequency readout I was
> thinking of adding a digital dial.

But this goes back to the previous thread.

It's far better to build a single band receiver well, and get it working, than to deal with the issues of multiple bands.

But, that receiver will work all over the place, with some changing of frequency sensitive circuitry. One of those R2 receivers is even set up for using modules to change bands.

One of the points of building a receiver that tuned a fixed range, and then putting converters ahead of it, was that you could build the main receiver, and use it immediately, and then deal with adding the other bands.

I've often felt it makes lots of sense to make a good receiver, minus the frequency selective elements, and then put it into a good box. Put the "variable oscillator" in a separate box, so you can have a simple single band VFO to begin with, or even a crystal oscillator for a fixed frequency, and get the receiver going easily. Then you can work on the fancier wide range synthesizer, or go through various iterations. The basic receiver is always available, and so is the fallback variable oscillator, which is not the case if you need to put the receiver on the workbench to make some modification.

Now that broadband techniques have come to amateur radio, your "black box" receiver can keep the frequency selective elements outside the box. You can play with plug-ins for the desired bands, or something that switches the LC circuits. Or both, migrating from the simple to the complicated. You might find that on some bands that are less important to you, you can get by with a simpler front end filter, but other bands you want something fancier. If you build a receiver all in one box, and the ultimate is the end goal, then you don't have the chance of having the receiver relatively early, and you don't learn from the experimenting. Plus, your ultimate standards have to be there across the bands, rather than applied selectiviely.

Ray Moore wrote an artilce in Ham Raido magainze about 1973 or '74 about receiver design, and showed off what was to him his "ultimate receiver". But it was a broadcast band receiver, which few of the readership would be interested in. He was merely using it as an example. His point was that it's easier to build a really good receiver for a dedicated task than to build a general purpose receiver that does everything well. He mentioned that commercial receivers were often a series of tradeoffs because they needed to provide something to a wide range of buyers, yet then people are often paying extra for features they will never use.

Starting with a "black box" provides a lot more flexibility than when putting the frequency selective elements in the box.

It doesn't even have to be the R2. Get a good passive mixer, a decent SSB-bandwidth 9MHz crystal filter (or build one), and then build up a good basic receiver that doesn't work without added circuitry. ANd use that as the "black box".

Michael VE2BVW

From 4768386600100036350
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X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!77g2000hsv.googlegroups.com!not-for-mail
From: john@feith.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Electronic inductor bandswitching using ADF4360-8 VCO / PLL
Date: 10 Jan 2007 11:39:58 -0800
Organization: http://groups.google.com
Lines: 15
Message-ID: <1168457998.733498.176840@77g2000hsv.googlegroups.com>
NNTP-Posting-Host: 192.251.93.16
Mime-Version: 1.0
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X-Trace: posting.google.com 1168458000 4895 127.0.0.1 (10 Jan 2007 19:40:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 10 Jan 2007 19:40:00 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; SunOS i86pc; en-US; rv:1.7) Gecko/20051101,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 77g2000hsv.googlegroups.com; posting-host=192.251.93.16;
   posting-account=pWWnBg0AAABRS67ySxV9IjQTzaIXw7NT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8621

I'm playing with a homebrewed receiver design and need a LO which covers 120 to 240 MHz. What's the feasibility of using something like the MAX4545 to electronically switch the ADF4360-8 VCO's inductors in order to cover that range? What other approaches are recommended for a homebrewed digitally controlled LO which covers that range?

```
-- John
-------------------------------------------------------------------------
|   Feith Systems  |   Voice: 1-215-646-8000  |  Email: john@feith.com
|
|    John Wehle    |     Fax: 1-215-540-5495  |
|
-------------------------------------------------------------------------
```

From 9054147583200988993
X-Google-Thread: fc2a5,8ed09d9e806246a5
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!newshub.sdsu.edu!sn-xt-
sjc-02!sn-xt-sjc-01!sn-post-sjc-02!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Electronic inductor bandswitching using ADF4360-8 VCO / PLL
Date: Wed, 10 Jan 2007 12:35:34 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12qajgn8j803iee@corp.supernews.com>
References: <1168457998.733498.176840@77g2000hsv.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 38
Xref: g2news2.google.com rec.radio.amateur.homebrew:8622

John,

We were just having a similar discussion on sci.electronics.design, although
it was about switching in capacitors on the ADF4360's L1/L2 pins rather than
different inductors. One of the comments -- from Michael Terrel -- was that
he's worked on equipment that shorted out inductors at various taps to change
ranges. You might get some ideas from reading the discussion:
http://groups.google.com/group/sci.electronics.design/browse_thread/thread/
af76d133a6069080/f1cdc83a3cf9a3d5

One problem with the ADF4360 is that the DC bias is, of course, ground on both
ends of the inductors so the RF swings above and below ground, thus requiring
either fancy bias arrangements or devices such as MOSFETs or PIN diodes that
will conduct on both cycles with a single-ended control voltage.

<john@feith.com> wrote in message
news:1168457998.733498.176840@77g2000hsv.googlegroups.com...
> I'm playing with a homebrewed receiver design and need a LO which
> covers 120 to 240 MHz. What's the feasibility of using something

> like the MAX4545 to electronically switch the ADF4360-8 VCO's
> inductors in order to cover that range?

Well... the tuning range is 1.2:1, so you'd need at least 4 -- probably 5, more practically -- switched inductors to cover the range. I suspect you could make this work, although the "grounded tapped inductor" approach is probably a little cleaner.

> What other approaches
> are recommended for a homebrewed digitally controlled LO which
> covers that range?

DDS chips! (E.g., AD9858.) The main drawback is that they consume significantly more power than a VCO/PLL combination and none will directly synthesize frequencies much above the low UHF range. But for 120-240MHz on mains-powered equipment, DDS would work well.

---Joel

From 4812397595841107811
X-Google-Thread: fc2a5,dd74b72dddcdcfdb
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o58g2000hsb.googlegroups.com!not-for-mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal Ham Receiver (cont.)
Date: 10 Jan 2007 12:48:17 -0800
Organization: http://groups.google.com
Lines: 46
Message-ID: <1168462097.146599.149440@o58g2000hsb.googlegroups.com>
References: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
   <1168447007.097109.212240@i39g2000hsf.googlegroups.com>
   <1168449451.949614.74790@i39g2000hsf.googlegroups.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1168462098 31564 127.0.0.1 (10 Jan 2007 20:48:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 10 Jan 2007 20:48:18 +0000 (UTC)
In-Reply-To: <1168449451.949614.74790@i39g2000hsf.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o58g2000hsb.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news2.google.com rec.radio.amateur.homebrew:8623

bcdlr wrote:

> Could I really get by with a newer digital dial SW receiver? I thought
> they were just too wide open on the front end side to be any good at
> all.

Where are you at, Cental Europe? If so, then the front end is too wide open.

If the middle of the US, then there's not much problem. If it becomes a problem, just put an attenuator in front.

The user interface on the new digital dial SW receivers is univerally sucky. They do awfully bad at "tuning around the band looking for a QSO", they are really built around the concept that someone will want to listen to Radio Netherlands at 15735kc and just punch in that number and expect to find it. There might be a tuning dial but it feels more like you're dialing through channels than tuning up and down the bands. The filters are only middlin' for AM, and will be "too wide" for SSB or CW on the ham bands if things are at all crowded. But contrasted with a $250 receiver from the 1960's they have a lot of nice things that were purely pie-in-the-sky back then!

> On the receiver I've put messages on eHam and QRZ for a 'receiver
> wanted' - I have some P4 class desktop machines I could trade, but I
> haven't gotten any nibbles at all yet. I've been hesitant to put the
> same message on rec.radio.swap due to the volume of traffic there.

Lots of stuff goes through E-bay. Including the general coverage receivers you seem to desire, for example I got a WJ-8716 (something that was almost entirely out of the reach of a non-millionaire ham in the 70's or 80's) at a tiny tiny fraction of what they originally sell for. Still not "cheap".

If you like CW, I have recently become very enamored of the Heathkit HW-16. There's a lot to be said for simple single-mode limited-bandwidth receivers (or in the case of the HW-12 transceivers). Break-in on the HW-16 with a couple mods is seamless, it's so good that I FEEL like I can hear even when I have the key down.

Spring is coming and there will probably be some hamfests near you. Hamfests tend to be better than say 10 or 15 years ago, when they were all computer junk. Even if you don't buy, you get to see and usually touch the stuff.

Tim.

```
From -7239033329174242306
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X-Google-Attributes: gidfc2a5,public
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```

```
nntpserver.com!zeus.nntpserver.com!10.1.1.50.MISMATCH!not-for-mail
From: "john jardine" <john@jjdesigns.fsnet.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <1168457998.733498.176840@77g2000hsv.googlegroups.com>
Subject: Re: Electronic inductor bandswitching using ADF4360-8 VCO / PLL
Date: Wed, 10 Jan 2007 22:26:15 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Lines: 30
Message-ID: <45a55b56$0$4748$88260bb3@free.teranews.com>
NNTP-Posting-Date: 10 Jan 2007 21:32:06 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8624


<john@feith.com> wrote in message
news:1168457998.733498.176840@77g2000hsv.googlegroups.com...
> I'm playing with a homebrewed receiver design and need a LO which
> covers 120 to 240 MHz.  What's the feasibility of using something
> like the MAX4545 to electronically switch the ADF4360-8 VCO's
> inductors in order to cover that range?  What other approaches
> are recommended for a homebrewed digitally controlled LO which
> covers that range?
>
> -- John
> -------------------------------------------------------------------------
> |   Feith Systems  |   Voice: 1-215-646-8000  |  Email: john@feith.com
> |
> |    John Wehle    |     Fax: 1-215-540-5495  |
> |
> -------------------------------------------------------------------------
>
(ADF4360 L's don't appear accessible?)
Done a bog standard, single transistor Colpitts, that covers 110-220Mhz
using a cheap SMV1255-000 varicap. It's part of a BFO arrangement and
intentionally limited to a  110MHz swing (1.5 to 4.5V) but there's a bit of
steam left in the Varicap and 120-240 seems not unreasonable. Present plan
is to feed the VCO to a LMX2306 synth run as always, by a PIC.
(BFO design started after rooting round for a now unobtanium  /100 frequency
count prescaler for another project and noticed the cheap LMX2306 can act as
all things to all men ).
john



--
Posted via a free Usenet account from http://www.teranews.com



From -7048438692595883 72
```

X-Google-Thread: fc2a5,8ed09d9e806246a5
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news1.google.com!news.maxwell.syr.edu!sn-xt-sjc-05!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Electronic inductor bandswitching using ADF4360-8 VCO / PLL
Date: Wed, 10 Jan 2007 15:27:58 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12qatjvdc2md087@corp.supernews.com>
References: <1168457998.733498.176840@77g2000hsv.googlegroups.com> <45a55b56$0$4748$88260bb3@free.teranews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 13
Xref: g2news2.google.com rec.radio.amateur.homebrew:8625

John,

"john jardine" <john@jjdesigns.fsnet.co.uk> wrote in message
news:45a55b56$0$4748$88260bb3@free.teranews.com...
> Done a bog standard, single transistor Colpitts, that covers 110-220Mhz
> using a cheap SMV1255-000 varicap.

What's the power consumption of the VCO? (I'm looking at breaking apart one of those ADF4360's into a separate VCO and PLL, since the 4360's use a *lot* of power, but apparently most of this is tied up in the VCO since you can readily get PLLs that are only a milliamp or two such as your LMX2306...)

From 3503597625222378600
X-Google-Thread: fc2a5,8ed09d9e806246a5
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!news2.euro.net!66.150.105.54.MISMATCH!nntpserver.com!zeus.nntpserver.com!10.1.1.50.MISMATCH!not-for-mail
From: "john jardine" <john@jjdesigns.fsnet.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <1168457998.733498.176840@77g2000hsv.googlegroups.com> <45a55b56$0$4748$88260bb3@free.teranews.com> <12qatjvdc2md087@corp.supernews.com>
Subject: Re: Electronic inductor bandswitching using ADF4360-8 VCO / PLL
Date: Thu, 11 Jan 2007 00:26:23 -0000
X-Priority: 3
X-MSMail-Priority: Normal

X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Lines: 31
Message-ID: <45a5777d$0$4756$88260bb3@free.teranews.com>
NNTP-Posting-Date: 10 Jan 2007 23:32:13 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8626

"Joel Kolstad" <JKolstad71HatesSpam@yahoo.com> wrote in message
news:12qatjvdc2md087@corp.supernews.com...
> John,
>
> "john jardine" <john@jjdesigns.fsnet.co.uk> wrote in message
> news:45a55b56$0$4748$88260bb3@free.teranews.com...
> > Done a bog standard, single transistor Colpitts, that covers 110-220Mhz
> > using a cheap SMV1255-000 varicap.
>
> What's the power consumption of the VCO? (I'm looking at breaking apart
one
> of those ADF4360's into a separate VCO and PLL, since the 4360's use a
lot
> of power, but apparently most of this is tied up in the VCO since you can
> readily get PLLs that are only a milliamp or two such as your LMX2306...)
>
>

2ma at 5V.
It's a 2N3819 fet with 1k5 source. Runs about 300mV rms (or, as this is a
radio group +2.57dBm :) For curiosity, the original fet circuit seemed not
unhappy to be pushed to 500MHz, (on plug in breadboard!).
Noticed the "-7 -8" ADF4360 versions use external Ls. Nice feature (to me)
is that the oscillator is routed internally to drive the DivN counters. At
the moment am using 2 MMC's to give a 1Vrms (apologies, +13dBm) final output
to drive other circuits, ALC and the synth but they burn power like there's
no tomorrow.
john

--
Posted via a free Usenet account from http://www.teranews.com

From -6511472880460906437
X-Google-Thread: fc2a5,8ed09d9e806246a5
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k58g2000hse.googlegroups.com!not-for-
mail
From: john@feith.com
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Electronic inductor bandswitching using ADF4360-8 VCO / PLL
Date: 10 Jan 2007 20:27:51 -0800
Organization: http://groups.google.com
Lines: 13
Message-ID: <1168489671.548283.120340@k58g2000hse.googlegroups.com>
References: <1168457998.733498.176840@77g2000hsv.googlegroups.com>
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Mime-Version: 1.0
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X-Trace: posting.google.com 1168489673 30391 127.0.0.1 (11 Jan 2007 04:27:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 11 Jan 2007 04:27:53 +0000 (UTC)
In-Reply-To: <45a55b56$0$4748$88260bb3@free.teranews.com>
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Complaints-To: groups-abuse@google.com
Injection-Info: k58g2000hse.googlegroups.com; posting-host=71.224.204.148;
   posting-account=pWWnBg0AAABRS67ySxV9IjQTzaIXw7NT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8627

john jardine wrote:
> Done a bog standard, single transistor Colpitts, that covers 110-220Mhz
> using a cheap SMV1255-000 varicap. It's part of a BFO arrangement and
> intentionally limited to a 110MHz swing (1.5 to 4.5V) but there's a bit of
> steam left in the Varicap and 120-240 seems not unreasonable.

That's a Kv of about 36 MHz / V.   Naive question ... doesn't a higher
Kv
have the potential for greater noise? What is the effect of a higher
Kv
for the LO VCO on the overall performance of a receiver?

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Path: g2news2.google.com!postnews.google.com!p59g2000hsd.googlegroups.com!not-for-mail
From: john@feith.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Electronic inductor bandswitching using ADF4360-8 VCO / PLL
Date: 10 Jan 2007 20:49:45 -0800
Organization: http://groups.google.com
Lines: 12
Message-ID: <1168490985.189487.64690@p59g2000hsd.googlegroups.com>
References: <1168457998.733498.176840@77g2000hsv.googlegroups.com>
   <12qajgn8j803iee@corp.supernews.com>
NNTP-Posting-Host: 71.224.204.148

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NNTP-Posting-Date: Thu, 11 Jan 2007 04:49:46 +0000 (UTC)
In-Reply-To: <12qajgn8j803iee@corp.supernews.com>
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Complaints-To: groups-abuse@google.com
Injection-Info: p59g2000hsd.googlegroups.com; posting-host=71.224.204.148;
   posting-account=pWWnBg0AAABRS67ySxV9IjQTzaIXw7NT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8628

Joel Kolstad wrote:
> One of the comments -- from Michael Terrel -- was that
> he's worked on equipment that shorted out inductors at various taps to change
> ranges.

I can understand using a MOSFET to short an inductor at various taps,
however
I don't see how to do that using a PIN diode unless DC blocking
capacitors are
being used between the inductor sections.

From 9025358327973442618
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i56g2000hsf.googlegroups.com!not-for-mail
From: "laura halliday" <marsgal42@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal Ham Receiver (cont.)
Date: 10 Jan 2007 21:26:59 -0800
Organization: http://groups.google.com
Lines: 46
Message-ID: <1168493219.021217.152510@i56g2000hsf.googlegroups.com>
References: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
NNTP-Posting-Host: 207.6.198.34
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1168493220 5910 127.0.0.1 (11 Jan 2007 05:27:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 11 Jan 2007 05:27:00 +0000 (UTC)
In-Reply-To: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
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X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7) Gecko/20040618,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com

Injection-Info: i56g2000hsf.googlegroups.com; posting-host=207.6.198.34;
posting-account=hajlLgwAAABnEIYWRhxcLRahLr8hJUY4
Xref: g2news2.google.com rec.radio.amateur.homebrew:8629

bcdlr wrote:
> Guys that was a great discussion...
> But I still have a question or two. Well actually a lot more than that
> but we can't answer them all.
> ---
> I know I'm not ready to build my own receiver, unless I went the micro
> R2 route (I'm going to build one some day).
> But that still doesn't solve my need for a ham band(s) receiver - to
> use as a receiver and as a necessary piece of test equipment.
> ---
> I know that the Drake 2b is good. But how easy (and cheap) is it to get
> one? Are most "wore" out?
> I've heard that a common ailment is that the mechanical filter will be
> screwed up.
> What are some receivers to look for (don't say the Collins - I don't
> have enough money)?

You already know the names to look for: Kenwood, Icom, Yaesu. Most names from the past are either junk by modern standards, or are expensive collectors items. You're already on the air, so *talk* to people. Hell, maybe somebody has an old but still useful radio they're not using. You'll never know if you don't ask.

There are indeed used professional receivers out there. You will get an astonishing radio if it has a name on it like Watkins-Johnson or Harris (two names that have shown up in this thread), but just because they're less than they were new doesn't mean they're cheap.

My advice: buy something decent, but don't fret too much over just what it is. Once you have some experience with whatever you end up buying, you'll have a standard for comparison, and will know what to look for.

You asked about software radios? (I abhor the term SDR) Buzzword city, ultra-trendy, but I'd be surprised if 1 ham in 100 really knew how they worked. Get it right, though, and a software radio can do things no hardware radio could dream of doing.

Laura Halliday VE7LDH   "That's a totally illegal,
Grid: CN89mg   madcap scheme. I like it!"
ICBM: 49 16.05 N 122 56.92 W   - H. Pearce

From -1856865604773419854

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Path: g2news2.google.com!news2.google.com!news4.google.com!
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Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1168457998.733498.176840@77g2000hsv.googlegroups.com>
<45a55b56$0$4748$88260bb3@free.teranews.com>
<1168489671.548283.120340@k58g2000hse.googlegroups.com>
Subject: Re: Electronic inductor bandswitching using ADF4360-8 VCO / PLL
Lines: 48
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <IUnph.4085$2D.3448@trndny07>
Date: Thu, 11 Jan 2007 10:00:08 GMT
NNTP-Posting-Host: 68.163.46.92
X-Complaints-To: abuse@verizon.net
X-Trace: trndny07 1168509608 68.163.46.92 (Thu, 11 Jan 2007 05:00:08 EST)
NNTP-Posting-Date: Thu, 11 Jan 2007 05:00:08 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8630
```

I looked at this chip some time ago for use as the LO in an HF receiver, and I abandoned it concluding that the noise performance of the VCO is about 20 dB shy of the minimum you need for good HF receiver overload performance ('reciprocal mixing").

As to the VCO tuning range, less is usually better from a noise standpoint, as most varactors don't have very good Q specs and the tighter the varactor is coupled into the overall resonant circuit, the poorer the resonant Q will be. Also, high tuning sensitivity in the VCO makes the oscillator susceptable to modulation from 'junk' on the power supply or the tuning voltage.

Shorting out turns in the resonant inductor as a means of bandswitching isn't so great either, as the shorted turns inductively couple into the resonant circuit as resistors (the resistance of the pin diode or other switching element), lowering the circuit Q and raising the noise of the oscillator.

In general, it's best to band-switch discrete elements such as separate inductors or capacitors and to keep the tuning sensitivity as low as possible in order to provide continuous coverage of a band. If high tuning range is necessary, every attempt should be made to use high Q components and to maintain a high loaded Q in the circuit they're used in. Also, parallelling of varactors has been shown to improve noise performance in wide-range oscillators.

Joe
W3JDR

<john@feith.com> wrote in message
news:1168489671.548283.120340@k58g2000hse.googlegroups.com...
>
> john jardine wrote:
>> Done a bog standard, single transistor Colpitts, that covers 110-220Mhz
>> using a cheap SMV1255-000 varicap. It's part of a BFO arrangement and
>> intentionally limited to a 110MHz swing (1.5 to 4.5V) but there's a bit
>> of
>> steam left in the Varicap and 120-240 seems not unreasonable.
>
> That's a Kv of about 36 MHz / V.   Naive question ... doesn't a higher
> Kv
> have the potential for greater noise? What is the effect of a higher
> Kv
> for the LO VCO on the overall performance of a receiver?
>

From -4018627585475505568
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Path: g2news2.google.com!postnews.google.com!i39g2000hsf.googlegroups.com!not-for-mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal Ham Receiver (cont.)
Date: 11 Jan 2007 05:00:40 -0800
Organization: http://groups.google.com
Lines: 33
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Complaints-To: groups-abuse@google.com
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   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w

Xref: g2news2.google.com rec.radio.amateur.homebrew:8631

laura halliday wrote:
> There are indeed used professional receivers out there.
> You will get an astonishing radio if it has a name on it like
> Watkins-Johnson or Harris (two names that have shown
> up in this thread), but just because they're less than
> they were new doesn't mean they're cheap.

I spent about a day's salary on my WJ-8716. I contrast that with the
stuff I had thirty years ago and that's dirt cheap :-). In constant
dollars I spent way less on the WJ than on my HW-100 back then.

That said, I have a lot more fun with simple one-mode ham-band-only (or
a few-ham-bands or one-ham-band) receivers. The most fun ARE just a
step or two removed from the most simple. While the filters on my HW-16
aren't nearly as tight as those on the WJ-8716, the receiver of my
HW-16 feels MUCH more like a "window on a slice of the 40M CW band".

> Once you have some
> experience with whatever you end up buying, you'll
> have a standard for comparison, and will know what
> to look for.

A decent older ham-band transceiver is a fine place to start. Lots of
radios from the 80's on are also general-coverage receivers.

My advice is to not only listen and use and look "upscale", but look
and try out "downscale" too. Some steps down will be too far (for
example, I really do not enjoy direct conversion receivers although I
appreciate much of their simplicity) but some other will be "just
right".

Tim.

From -8505816300299099762
X-Google-Thread: fc2a5,115bcafc1f0ec553
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X-Google-Language: ENGLISH,ASCII-7-bit
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From: "amdx" <amdx@knology.net>
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X-RFC2646: Format=Flowed; Response
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Lines: 34
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Xref: g2news2.google.com rec.radio.amateur.homebrew:8632


"Ian White GM3SEK" <gm3sek@ifwtech.co.uk> wrote in message
news:Gql0+yW5ZroFFANO@ifwtech.co.uk...
> Jim Barber wrote:
>>Now that has potential:
>>
>>By pure coincidence, I already have a Sony HDR-SR1 high-def (1080i)
>>camcorder and a 21" 16:9 LCD display with HDMI input in the lab.
>>
>>Putting those two devices together and adding an appropriate macro lens
>>would seem to be a natural thing for this kind of work.
>>
>>Great idea, Ian!
>
> Not my own idea, but a friend's. He particularly likes having the camera a
> long way above the work, so the area in front of him is completely clear.
>
> Come to think, my dentist has very a similar system as part of his fancy
> new workstation, which is styled like the bridge of the Starship
> Enterprise.
>
Speaking of the dentist, I visited the dentist yesterday and quizzed the
hygienist
about her glasses with the special lenses mounted out front. She said the
had a
magnification of 2.5 and focus length around 18". Always thought I wanted a
pair of those but 2.5 magnification doesn't seem like enough and she
reported
the cost as $800.00. The dentist had a flip down style that mounted to his
regular
glasses. They cost less but still expensive.
                                         Mike




From -2164928905355459521
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X-Google-Attributes: gidfc2a5,public
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NNTP-Posting-Date: Thu, 11 Jan 2007 07:50:23 -0600
Message-ID: <xFeS1ANf6jpFFAgd@ifwtech.co.uk>
Date: Thu, 11 Jan 2007 13:41:51 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS kit
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
 <x0Rnj9Q$H$kFFArr@ifwtech.co.uk>
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 <D6+1K0EX9foFFAMT@ifwtech.co.uk>
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DN5vO5JGKImYU02KND6tZxu2Xf0eOq5arG8GPiB2qmAVRLQCg1Ol1rVMVXXQWoJWccpP+pmUVHXyukg!
qSVmxP5MhDT8hLgpDY8Jb2FXOJ857kmo8CX1q7MQrjiYYMzNPq37tc4HhWz3IX0WJbQM4ViUY3s=
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8633

amdx wrote:
>
>"Ian White GM3SEK" <gm3sek@ifwtech.co.uk> wrote in message
>news:Gql0+yW5ZroFFANO@ifwtech.co.uk...
>> Jim Barber wrote:
>>>Now that has potential:
>>>
>>>By pure coincidence, I already have a Sony HDR-SR1 high-def (1080i)
>>>camcorder and a 21" 16:9 LCD display with HDMI input in the lab.
>>>
>>>Putting those two devices together and adding an appropriate macro lens
>>>would seem to be a natural thing for this kind of work.
>>>
>>>Great idea, Ian!
>>
```

>> Not my own idea, but a friend's. He particularly likes having the camera a
>> long way above the work, so the area in front of him is completely clear.
>>
>> Come to think, my dentist has very a similar system as part of his fancy
>> new workstation, which is styled like the bridge of the Starship
>> Enterprise.
>>
>Speaking of the dentist, I visited the dentist yesterday and quizzed the
>hygienist
>about her glasses with the special lenses mounted out front. She said the
>had a
>magnification of 2.5 and focus length around 18". Always thought I wanted a
>pair of those but 2.5 magnification doesn't seem like enough and she
>reported
>the cost as $800.00. The dentist had a flip down style that mounted to his
>regular
>glasses. They cost less but still expensive.

I should have said that the TV camera was mostly for the education and
amusement(?) of the patients, and to allow images to be captured for the
records. For his own use, my dentist has exactly the same kinds of
flip-up compound lenses that give a reasonably magnified view from a
long focal distance. This allows him to sit more upright and avoid back
strain.

Such lenses would be fine for SMD work too, because they would give us
an unobstructed work area, and would reduce back and neck strain for us
too. But as you say, they are low on magnification for our needs, and
very expensive.

People's eyes and preferences vary, so there's no one 'best'
magnification. Personally I find x10 is plenty for SMD, and might even
trade down to x5 for a system that gave me more clear space to wave the
soldering iron... and of course if the price was right.

--
73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From -3625708045252475725
X-Google-Thread: fc2a5,dd74b72dddcdcfdb
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe17.lga.POSTED!53ab2750!not-for-mail
From: Sam Morgan <ka5oai@cox.net>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal Ham Receiver (cont.)
References: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
In-Reply-To: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 17
Message-ID: <xNtph.99456$Pv5.35358@newsfe17.lga>
Date: Thu, 11 Jan 2007 10:42:09 -0600
NNTP-Posting-Host: 70.185.138.222
X-Complaints-To: admin@cox.net
X-Trace: newsfe17.lga 1168533725 70.185.138.222 (Thu, 11 Jan 2007 09:42:05 MST)
NNTP-Posting-Date: Thu, 11 Jan 2007 09:42:05 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:8634

bcdlr wrote:
> Guys that was a great discussion...
> But I still have a question or two. Well actually a lot more than that
> but we can't answer them all.
> ---
> I know I'm not ready to build my own receiver, unless I went the micro
> R2 route (I'm going to build one some day).
> But that still doesn't solve my need for a ham band(s) receiver - to
> use as a receiver and as a necessary piece of test equipment.
> ---

why not kill 2 birds with one stone?
for about $200.00 u can get the The Electroluminescent Receiver Kit
http://www.pan-tex.net/usr/r/receivers/
its a kit that is designed to be a teaching platform and the pads are large
enough to allow for multiple remove this and try that type mods.
$60.00 of that price is a digital read out.

From 934752202931500926
X-Google-Thread: fc2a5,dd74b72dddcdcfdb
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe18.lga.POSTED!53ab2750!not-for-mail
From: Sam Morgan <ka5oai@cox.net>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal Ham Receiver (cont.)
References: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
<xNtph.99456$Pv5.35358@newsfe17.lga>
In-Reply-To: <xNtph.99456$Pv5.35358@newsfe17.lga>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 14
Message-ID: <n0uph.33142$X97.1171@newsfe18.lga>

```
Date: Thu, 11 Jan 2007 10:58:00 -0600
NNTP-Posting-Host: 70.185.138.222
X-Complaints-To: admin@cox.net
X-Trace: newsfe18.lga 1168534675 70.185.138.222 (Thu, 11 Jan 2007 09:57:55 MST)
NNTP-Posting-Date: Thu, 11 Jan 2007 09:57:55 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:8635

Sam Morgan wrote:
> why not kill 2 birds with one stone?
> for about $200.00 u can get the The Electroluminescent Receiver Kit
> http://www.pan-tex.net/usr/r/receivers/
> its a kit that is designed to be a teaching platform and the pads are
> large enough to allow for multiple remove this and try that type mods.
> $60.00 of that price is a digital read out.
>
sorry, I forgot this part:
http://www.pan-tex.net/usr/r/receivers/elrconstruction.htm
the "General Information About the Boards" is what sold me on the unit
there is so much info all scattered about on that site that it took me a while
to find that part



From 2520902246356623238
X-Google-Thread: fc2a5,dd74b72dddcdcfdb
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news1.google.com!news.maxwell.syr.edu!
sn-xt-sjc-05!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-
mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal Ham Receiver (cont.)
Date: Thu, 11 Jan 2007 09:42:04 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12qctndifb4p7cd@corp.supernews.com>
References: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
<1168493219.021217.152510@i56g2000hsf.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8636

"laura halliday" <marsgal42@hotmail.com> wrote in message
news:1168493219.021217.152510@i56g2000hsf.googlegroups.com...
> You asked about software radios? (I abhor the term
> SDR) Buzzword city, ultra-trendy, but I'd be surprised
> if 1 ham in 100 really knew how they worked.
```

Does 1 ham in 100 really know how an FM demodulator works anymore?

```
From -2792382774896895609
X-Google-Thread: fc2a5,8ed09d9e806246a5
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-02!sn-xt-sjc-10!sn-xt-sjc-01!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Electronic inductor bandswitching using ADF4360-8 VCO / PLL
Date: Thu, 11 Jan 2007 09:47:04 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12qcu0q45o1fce3@corp.supernews.com>
References: <1168457998.733498.176840@77g2000hsv.googlegroups.com>
<45a55b56$0$4748$88260bb3@free.teranews.com>
<1168489671.548283.120340@k58g2000hse.googlegroups.com>
<IUnph.4085$2D.3448@trndny07>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 12
Xref: g2news2.google.com rec.radio.amateur.homebrew:8637
```

Hi Joe,

That's some really good information; thanks. One question...

-- If shorting part of an inductor to ground is not that desirable since the PIN diode or other switching device will have finite resistance that'll create noise, isn't there the exact same problem with switching in multiple discrete devices? That the switching device will create a little noise?

---Joel

```
From 3500023457618844882
X-Google-Thread: fc2a5,dd74b72dddcdcfdb
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k58g2000hse.googlegroups.com!not-for-
mail
From: "laura halliday" <marsgal42@hotmail.com>
```

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal Ham Receiver (cont.)
Date: 11 Jan 2007 10:59:05 -0800
Organization: http://groups.google.com
Lines: 37
Message-ID: <1168541945.237571.254400@k58g2000hse.googlegroups.com>
References: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
   <1168493219.021217.152510@i56g2000hsf.googlegroups.com>
   <1168520440.023365.29410@i39g2000hsf.googlegroups.com>
NNTP-Posting-Host: 207.6.198.34
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1168541946 12943 127.0.0.1 (11 Jan 2007 18:59:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 11 Jan 2007 18:59:06 +0000 (UTC)
In-Reply-To: <1168520440.023365.29410@i39g2000hsf.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7) Gecko/
20040618,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k58g2000hse.googlegroups.com; posting-host=207.6.198.34;
   posting-account=hajlLgwAAABnEIYWRhxcLRahLr8hJUY4
Xref: g2news2.google.com rec.radio.amateur.homebrew:8638

Tim Shoppa wrote:
> laura halliday wrote:
> > There are indeed used professional receivers out there.
> > You will get an astonishing radio if it has a name on it like
> > Watkins-Johnson or Harris (two names that have shown
> > up in this thread), but just because they're less than
> > they were new doesn't mean they're cheap.
>
> I spent about a day's salary on my WJ-8716. I contrast that with the
> stuff I had thirty years ago and that's dirt cheap :-). In constant
> dollars I spent way less on the WJ than on my HW-100 back then.

You got a bargain, and I'm envious. My RF-590 cost more
than my car, though that's not saying much. :-)

I made up for it with my 51J-4 (oops...sorry...it's a Collins!),
which I got for hauling it away.

> That said, I have a lot more fun with simple one-mode ham-band-only (or
> a few-ham-bands or one-ham-band) receivers. The most fun ARE just a
> step or two removed from the most simple. While the filters on my HW-16
> aren't nearly as tight as those on the WJ-8716, the receiver of my
> HW-16 feels MUCH more like a "window on a slice of the 40M CW band".

The HW-16 is one of the great radios, and is an excellent
example of how simple a radio can be, and how well it
can work. I had one for a while, but it kept frying the QSK
switching transistor. :-(

There is an enormous amount of choice out there.
If you (the original poster) come across anything
that looks even remotely useful, grab it.

```
Laura Halliday VE7LDH     "That's a totally illegal,
Grid: CN89mg                    madcap scheme. I like it!"
ICBM: 49 16.05 N 122 56.92 W        - H. Pearce
```

```
From -6552888157038049751
X-Google-Thread: fc2a5,dd74b72dddcdcfdb
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i56g2000hsf.googlegroups.com!not-for-
mail
From: "bcdlr" <on30ng@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal Ham Receiver (cont.)
Date: 11 Jan 2007 12:36:45 -0800
Organization: http://groups.google.com
Lines: 22
Message-ID: <1168547805.424960.108350@i56g2000hsf.googlegroups.com>
References: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
   <xNtph.99456$Pv5.35358@newsfe17.lga>
   <n0uph.33142$X97.1171@newsfe18.lga>
NNTP-Posting-Host: 74.135.146.232
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1168547807 2332 127.0.0.1 (11 Jan 2007 20:36:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 11 Jan 2007 20:36:47 +0000 (UTC)
In-Reply-To: <n0uph.33142$X97.1171@newsfe18.lga>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.9)
Gecko/20061206 Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i56g2000hsf.googlegroups.com; posting-host=74.135.146.232;
   posting-account=cHaz4A0AAABSvgBXdvZeKRmzV_BI715_
Xref: g2news2.google.com rec.radio.amateur.homebrew:8639
```

Sam, I have looked at this receiver a couple of times. The price is
quite attractive and I would get to build it to boot. I was just a
little skeptical.

Have any of you built one? Does it work well?

It sure looks like a hoot to build and use.

He also has a 'basic' one band receiver kit as well. Don't remember
much about it.

Dan KB9JLO

Sam Morgan wrote:
> Sam Morgan wrote:
> > why not kill 2 birds with one stone?
> > for about $200.00 u can get the The Electroluminescent Receiver Kit
> > http://www.pan-tex.net/usr/r/receivers/
> > its a kit that is designed to be a teaching platform and the pads are
> > large enough to allow for multiple remove this and try that type mods.
> > $60.00 of that price is a digital read out.

From 8124806464193848287
X-Google-Thread: fc2a5,36e09822a9caf2f4,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!news.glorb.com!newsfeed101.telia.com!nf02.dk.telia.net!news104.dk.telia.net!not-for-mail
From: "Frank Mikkelsen" <5034590m001@stofanet.dk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Digital controlled VGA
Date: Thu, 11 Jan 2007 21:55:14 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Lines: 23
Message-ID: <45a6a430$0$4162$ba624c82@nntp02.dk.telia.net>
NNTP-Posting-Host: 86.52.81.206
X-Trace: news.stofanet.dk 1168548912 4162 86.52.81.206:36301
X-Complaints-To: Telia Stofa Abuse <abuse@stofa.dk>
Xref: g2news2.google.com rec.radio.amateur.homebrew:8640

Hi group

I am looking for an digital controlled variable gain amplifier with BW > 200MHz.

The amplifier had to have min. 256 steps and should be used in an 50R system therefore impedance match on in- and output are preferred. Max output power 10->20dBm.

I can�t find any integrated amplifier there match these requirements. My best choice is AD8368 http://www.analog.com/en/prod/0,,759_787_AD8368%2C00.html and then use a DAC for the digital control.

Have I missed some? Any suggest will be appreciated very much

Thanks in advance

Frank

From -5754376858105366775
X-Google-Thread: fc2a5,c45757c02cec995b,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!news-
in.ntli.net!newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-
win.ntli.net!newsfe3-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Gwendoline Biggadike" <pjpennington@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Wagon R
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <vYxph.54706$z01.9447@newsfe3-gui.ntli.net>
Date: Thu, 11 Jan 2007 21:26:51 GMT
NNTP-Posting-Host: 80.4.58.86
X-Complaints-To: http://www.ntlworld.com/netreport
X-Trace: newsfe3-gui.ntli.net 1168550811 80.4.58.86 (Thu, 11 Jan 2007 21:26:51
GMT)
NNTP-Posting-Date: Thu, 11 Jan 2007 21:26:51 GMT
Organization: ntl Cablemodem News Service
Xref: g2news2.google.com rec.radio.amateur.homebrew:8641

Hi All,
I recently bought a new Wagon R car.
has anyone experience of fitting 2 metre transceiver/aerial to this vehicle
. I am particularly wary of any problems that might arise with the engine
management system etc.
73 Pete
G4EGQ
Folkestone
--

My normal email address is pj.pennington@ntlworld.com
If it appears that I have not received your email please send it to my
alternative address pjpennington@ntlworld.com

From -8248576433815131003
X-Google-Thread: fc2a5,f97dc724eaf5b0c6,start

```
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 11 Jan 2007 16:09:57 -0600
Message-ID: <45A6B5B7.5060809@comcast.net>
Date: Thu, 11 Jan 2007 17:09:59 -0500
From: JB <k1jzp@comcast.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.13) Gecko/
20060414
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: (no subject)
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 14
NNTP-Posting-Host: 24.128.43.182
X-Trace: sv3-CwG5qPc9k/6Nuz5ijocxXwlGfYpuOu5EL2eoKrf+91DCHwv2p1a0w50RqC/
tvj3YzYDLAdHJ2Dugaou!omqM0xieZg3Tq/
83+UVzro2SrSgRUrEHDN9XvvdLs+VXGrxcmhPI4xHcP4YxTpvj
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8642

Sam Morgan wrote:

 > why not kill 2 birds with one stone?
 > for about $200.00 u can get the The Electroluminescent Receiver Kit
 > http://www.pan-tex.net/usr/r/receivers/
 > its a kit that is designed to be a teaching platform and the pads are
large enough to allow for multiple remove this and try that type mods.
 > $60.00 of that price is a digital read out.
 >
sorry, I forgot this part:
http://www.pan-tex.net/usr/r/receivers/elrconstruction.htm
the "General Information About the Boards" is what sold me on the unit
there is so much info all scattered about on that site that it took me a
while to find that part


From -2189323508508523168
X-Google-Thread: fc2a5,8ed09d9e806246a5
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k58g2000hse.googlegroups.com!not-for-
mail
From: john@feith.com
```

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Electronic inductor bandswitching using ADF4360-8 VCO / PLL
Date: 11 Jan 2007 14:22:13 -0800
Organization: http://groups.google.com
Lines: 19
Message-ID: <1168554133.718434.181920@k58g2000hse.googlegroups.com>
References: <1168457998.733498.176840@77g2000hsv.googlegroups.com>
   <45a55b56$0$4748$88260bb3@free.teranews.com>
   <1168489671.548283.120340@k58g2000hse.googlegroups.com>
   <IUnph.4085$2D.3448@trndny07>
NNTP-Posting-Host: 192.251.93.16
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1168554135 17067 127.0.0.1 (11 Jan 2007 22:22:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 11 Jan 2007 22:22:15 +0000 (UTC)
In-Reply-To: <IUnph.4085$2D.3448@trndny07>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; SunOS i86pc; en-US; rv:1.7) Gecko/20051101,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k58g2000hse.googlegroups.com; posting-host=192.251.93.16;
   posting-account=pWWnBg0AAABRS67ySxV9IjQTzaIXw7NT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8643

W3JDR wrote:
> I looked at this chip some time ago for use as the LO in an HF receiver,
> and I abandoned it concluding that the noise performance of the VCO is about
> 20 dB shy of the minimum you need for good HF receiver overload performance
> ('reciprocal mixing").

Are you refering to a strong signal acting as a local oscillator and
when mixed with the phase noise sidebands of the actual local
oscillator
producing results which fall into the IF being used?

The phase noise performance of the ADF4360-8 is listed as -120 dBc/Hz
at 100 kHz offset from carrier. The MAX2620 which I was also
considering
is listed as -110 dBc/Hz at 25 kHz offset from carrier. What did you
end up
using and what are the specs?

From -1208167618441228838
X-Google-Thread: fc2a5,8ed09d9e806246a5
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!o58g2000hsb.googlegroups.com!not-for-mail
From: john@feith.com

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Electronic inductor bandswitching using ADF4360-8 VCO / PLL
Date: 11 Jan 2007 14:26:49 -0800
Organization: http://groups.google.com
Lines: 9
Message-ID: <1168554408.430586.187250@o58g2000hsb.googlegroups.com>
References: <1168457998.733498.176840@77g2000hsv.googlegroups.com>
   <45a55b56$0$4748$88260bb3@free.teranews.com>
   <1168489671.548283.120340@k58g2000hse.googlegroups.com>
   <IUnph.4085$2D.3448@trndny07>
NNTP-Posting-Host: 192.251.93.16
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1168554410 11657 127.0.0.1 (11 Jan 2007 22:26:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 11 Jan 2007 22:26:50 +0000 (UTC)
In-Reply-To: <IUnph.4085$2D.3448@trndny07>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; SunOS i86pc; en-US; rv:1.7) Gecko/
20051101,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: o58g2000hsb.googlegroups.com; posting-host=192.251.93.16;
   posting-account=pWWnBg0AAABRS67ySxV9IjQTzaIXw7NT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8644
```

W3JDR wrote:

> I looked at this chip some time ago for use as the LO in an HF receiver,
> and I abandoned it concluding that the noise performance of the VCO is about
> 20 dB shy of the minimum you need for good HF receiver overload performance

Does attenuating the signal before injecting it into the mixer help
avoid this problem?

```
From 2247496362961348482
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller2.gnilink.net!gnilink.net!trndny07.POSTED!0da99462!not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
<x0Rnj9Q$H$kFFArr@ifwtech.co.uk> <gkUkh.12641$641.9012@bignews4.bellsouth.net>
<feKdnfoy6rKKsgLYnZ2dnUVZ_r2onZ2d@neonova.net> <nX5kUvGeh2nFFAi3@ifwtech.co.uk>
<FF_nh.24242$cB6.1283@bignews7.bellsouth.net> <Iv-
dnee1n7VXSjzYnZ2dnUVZ_orinZ2d@neonova.net> <D6+1K0EX9foFFAMT@ifwtech.co.uk>
<cdKdnR5wOJ6BOj_YnZ2dnUVZ_vCknZ2d@neonova.net> <Gql0+yW5ZroFFANO@ifwtech.co.uk>
<6524$45a63564$45011502$6558@KNOLOGY.NET>
```

Subject: Re: DDS kit
Lines: 52
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <zUAph.4400$2D.4252@trndny07>
Date: Fri, 12 Jan 2007 00:47:27 GMT
NNTP-Posting-Host: 68.163.46.92
X-Complaints-To: abuse@verizon.net
X-Trace: trndny07 1168562847 68.163.46.92 (Thu, 11 Jan 2007 19:47:27 EST)
NNTP-Posting-Date: Thu, 11 Jan 2007 19:47:27 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8645

I use these:

http://www.harborfreight.com/cpi/ctaf/displayitem.taf?Itemnumber=38896

Also, I've soldered literally hundreds of fine-pitch SMD ICs using the simplest method of all: just bridge all the pins with solder and wick off the excess with solder-wick. Never had any problems with residual solder bridging or whiskers of solder-wick. You folks have made a mountain out of a molehill on this subject.

Joe
W3JDR

"amdx" <amdx@knology.net> wrote in message
news:6524$45a63564$45011502$6558@KNOLOGY.NET...
>
> "Ian White GM3SEK" <gm3sek@ifwtech.co.uk> wrote in message
> news:Gql0+yW5ZroFFANO@ifwtech.co.uk...
>> Jim Barber wrote:
>>>Now that has potential:
>>>
>>>By pure coincidence, I already have a Sony HDR-SR1 high-def (1080i)
>>>camcorder and a 21" 16:9 LCD display with HDMI input in the lab.
>>>
>>>Putting those two devices together and adding an appropriate macro lens
>>>would seem to be a natural thing for this kind of work.
>>>
>>>Great idea, Ian!
>>
>> Not my own idea, but a friend's. He particularly likes having the camera
>> a long way above the work, so the area in front of him is completely
>> clear.
>>
>> Come to think, my dentist has very a similar system as part of his fancy
>> new workstation, which is styled like the bridge of the Starship
>> Enterprise.
>>
> Speaking of the dentist, I visited the dentist yesterday and quizzed the

> hygienist
> about her glasses with the special lenses mounted out front. She said the
> had a
> magnification of 2.5 and focus length around 18". Always thought I wanted
> a
> pair of those but 2.5 magnification doesn't seem like enough and she
> reported
> the cost as $800.00. The dentist had a flip down style that mounted to his
> regular
> glasses. They cost less but still expensive.
>   Mike
>

From -7568772098645111576
X-Google-Thread: fc2a5,7ea2dbb58cc894a3,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wn12feed!worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!7bd46aa5!not-for-mail
From: "numeric" <numeric@att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Software defined radio
Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Message-ID: <TJEph.371479$Fi1.104223@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: 71417924f95bfde6a1ac6c96a2e92f46
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1168578547 71417924f95bfde6a1ac6c96a2e92f46 (Fri, 12 Jan 2007 05:09:07 GMT)
NNTP-Posting-Date: Fri, 12 Jan 2007 05:09:07 GMT
Organization: AT&T Worldnet
Date: Fri, 12 Jan 2007 05:09:07 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8646

Hi,

My objective is to homebrew a 10khz to 60Mhz software defined radio; one that uses the power of the PC for all modulation and demodulation functions. There are several references for a direct conversion receiver that uses a sample and hold detector or Tayloe detector which seems to provide remarkable performance. If possible I would like to use this detector; it embraces the KISS approach ;-). The problem I find however, is that the detector responds to odd harmonics of the receiving frequency, for a doubly balanced configuration. ;-(As an example, if the receiver is tuned to 10 Mhz, a signal of 30Mhz will also be received. Using Linear Technology LTspice (which is a free spice type simulator) to simulate the detector, the

30Mhz signal is about 10db lower then the 10Mhz desired signal. Looking for 140db or better difference; have a long way to go. Possibly there is an error in the simulation; but I think, unfortunately, it is correct. After all, the switch function is not linear. A Fourier analysis of the switch pulse closely agrees with the detected result; the third harmonic is about 10db lower then fundamental. Does anyone have experience with this type of detector?
Thank You.

From -4501769215357393717
X-Google-Thread: fc2a5,7ea2dbb58cc894a3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!newsfeed1.funet.fi!newsfeeds.funet.fi!feeder1.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Software defined radio
Message-ID: <4lheq2hu3qj566unq75n7l12eu4pnbrj93@4ax.com>
References: <TJEph.371479$Fi1.104223@bgtnsc05-news.ops.worldnet.att.net>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 48
Date: Fri, 12 Jan 2007 11:13:56 +0200
NNTP-Posting-Host: 195.197.6.76
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1168593085 195.197.6.76 (Fri, 12 Jan 2007 11:11:25 EET)
NNTP-Posting-Date: Fri, 12 Jan 2007 11:11:25 EET
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:8647

On Fri, 12 Jan 2007 05:09:07 GMT, "numeric" <numeric@att.net> wrote:

>My objective is to homebrew a 10khz to 60Mhz software defined radio; one
>that uses the power of the PC for all modulation and demodulation functions.
>There are several references for a direct conversion receiver that uses a
>sample and hold detector or Tayloe detector which seems to provide
>remarkable performance. If possible I would like to use this detector; it
>embraces the KISS approach ;-). The problem I find however, is that the
>detector responds to odd harmonics of the receiving frequency, for a doubly
>balanced configuration. ;-(

<clip>

> After

>all, the switch function is not linear. A Fourier analysis of the switch
>pulse closely agrees with the detected result; the third harmonic is about
>10db lower then fundamental. Does anyone have experience with this type of
>detector?

The odd harmonic response is typical for switching mixers.

If you want to avoid the odd harmonic response, you should either filter out before the mixer (e.g. octave filters as used in many receivers) or use a true linear four quadrant multiplier and feed it with a pure sinuous local oscillator signal.

However, the noise and distortion performance for a practical linear four quadrant multiplier may be worse than a switching filter with octave preselector filtering.

Anyway, some preselector filtering would anyway help the mixer handle the input signal power and use different attenuators/amplifiers for different bands. For VLF/LF/MF and lower HF you might need some attenuation, while for the upper-HF and lower VHF, you might need a preamplifier.

If direct conversion is used, quite a lot of AF amplification may be needed, so for the upper bands, it would make sense to use some RF-amplification ahead of the mixer to distribute the gain between RF and AF frequencies.

I would suggest using some switchable band filters and a programmable attenuator if you really want to make the receiver usable and not just demonstrate that it can tune the specified frequency range :-).

Paul OH3LWR

From -6417443060398792650
X-Google-Thread: fc2a5,dd74b72dddcdcfdb
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe17.lga.POSTED!53ab2750!not-for-mail
From: Sam Morgan <ndahouse@cox.net>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal Ham Receiver (cont.)
References: <1168401169.336442.209860@i39g2000hsf.googlegroups.com> <xNtph.99456$Pv5.35358@newsfe17.lga> <n0uph.33142$X97.1171@newsfe18.lga> <1168547805.424960.108350@i56g2000hsf.googlegroups.com>
In-Reply-To: <1168547805.424960.108350@i56g2000hsf.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 56

Message-ID: <LqLph.99619$Pv5.80991@newsfe17.lga>
Date: Fri, 12 Jan 2007 06:46:41 -0600
NNTP-Posting-Host: 70.185.138.222
X-Complaints-To: admin@cox.net
X-Trace: newsfe17.lga 1168605995 70.185.138.222 (Fri, 12 Jan 2007 05:46:35 MST)
NNTP-Posting-Date: Fri, 12 Jan 2007 05:46:35 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:8648

bcdlr wrote:
> Sam, I have looked at this receiver a couple of times. The price is
> quite attractive and I would get to build it to boot. I was just a
> little skeptical.
>
> Have any of you built one? Does it work well?
>
> It sure looks like a hoot to build and use.
>
> He also has a 'basic' one band receiver kit as well. Don't remember
> much about it.
>
Well I thought it over for a long time as well.....
Then I met David, WN5Y one night on our regular Sunday night Echolink QRP Conference. After a long discussion with him I decided to try one. How well does it work? I'll tell you when I finish it. <g> I am maybe 1/4 of the way through building it.
Is it a fun build, absolutely!

I put the ELR (Electro Luminescent Reciever) assembly on the back burner while I built the m3 digital LCRZ meter http://www.m3electronix.com/lcr.html I figured it would be a handy tool for what ever mod I might wish to try on the ELR unit. So I'm just now getting back to building it.

After building that little LCRZ meter it was a real pleasure to get back to the ELR's large boards and discrete components.

I will say that I have had the occasion to need to ask David a couple of questions along the way and he has always been extremely helpful. He is even open to questions not only about the actual assembly, but is also willing to bounce around queries about modification you might be considering to the unit.

My reason for the choice of the ELR was......
I have a TS430S that I had to send off to get it fixed. Not only did I not have the equipment to fix it, I didn't have the knowledge. About $250.00, 2 months, and 2 trips back to the shop) a return trip for something that wasn't fixed the 1st time around.

After all that, I decided I wanted to learn how to repair what ever rx and tx I bought/built in the future. So I figured if I built it, I just might learn enough along the way to be able to repair it. Since my favorite bands are 40m, 30m, and 17m the ELR was exactly what I wanted.

I'm sure enjoying the build and if I don't like it's performance (which I doubt will be the case) It's designed with the wider pads so that I can play with it and try out this, that, or what ever mods I think could make it better. Ever tried that on a board with those tiny traces and smd components? I'm not that comfortable with the dead bug or manhattan styled building, maybe later after I begin to understand theory well enough to try something from scratch. And the huge plus that the guy who sells it, encourages me to correspond with him about any mods and he is happy and willing to help me out with them...... Can't beat it as far as I'm concerned. Sorry for rambling on, I'll just close with the comment "try it (I really think) you'll like it"

God Bless,
KA5OAI

From 2695995613237906905
X-Google-Thread: fc2a5,f61828da41b80507,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!postnews.google.com!11g2000cwr.googlegroups.com!not-for-mail
From: "jenny9600@hotmail.com" <jenny9600@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: PW Chatterbox info please ???
Date: 12 Jan 2007 07:34:04 -0800
Organization: http://groups.google.com
Lines: 7
Message-ID: <1168616041.395295.189580@11g2000cwr.googlegroups.com>
NNTP-Posting-Host: 82.12.156.178
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1168616051 29388 127.0.0.1 (12 Jan 2007 15:34:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 12 Jan 2007 15:34:11 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.8.0.9) Gecko/20061206 Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 11g2000cwr.googlegroups.com; posting-host=82.12.156.178;
   posting-account=AJI_8A0AAAAgsJux48_Fu-4ZLNCmJLyi
Xref: g2news2.google.com rec.radio.amateur.homebrew:8649

Hi, has anyone got a copy of the articles for the Chatterbox Top Band
rig which were published
some years ago in Practical Wireless that they could email to me ?
I had a complete set but lost them due to a disk crash and a corrupt
back-up.
Thanks.

From -5769038373653019401
X-Google-Thread: fc2a5,313a68777e8a6cb4
X-Google-Attributes: gidfc2a5,public

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!51g2000cwl.googlegroups.com!not-for-mail
From: rdscanning@googlemail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FYI: Online datasheets source
Date: 12 Jan 2007 09:47:47 -0800
Organization: http://groups.google.com
Lines: 14
Message-ID: <1168624067.101672.225160@51g2000cwl.googlegroups.com>
References: <U0Boh.38170$lD5.11498@newsfe14.phx>
NNTP-Posting-Host: 68.203.167.234
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1168624072 15752 127.0.0.1 (12 Jan 2007 17:47:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 12 Jan 2007 17:47:52 +0000 (UTC)
In-Reply-To: <U0Boh.38170$lD5.11498@newsfe14.phx>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 51g2000cwl.googlegroups.com; posting-host=68.203.167.234;
   posting-account=4kqjJQ0AAAA-3VSLUpjMMvGyRNZvQwjf
Xref: g2news2.google.com rec.radio.amateur.homebrew:8650

Caveat Lector wrote:
> In case you haven't seen it
>
> DatasheetCatalog.com is free an online datasheet source for electronic
> components and semiconductors from several manufacturers
>
> http://www.datasheetcatalog.com/
>
> 73 CL

http://www.datasheetarchive.com is another good one. They have 5x more
datasheets than datasheetcatalog even if a bit slower.

From 5960246837550353499
X-Google-Thread: fc2a5,313a68777e8a6cb4
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!bigfeed2.bellsouth.net!
news.bellsouth.net!hwmnpeer01.phx!news.highwinds-media.com!hw-filter.phx!
newsfe13.phx.POSTED!53ab2750!not-for-mail
From: "Caveat Lector" <CL@nowhere.com>
Newsgroups: rec.radio.amateur.homebrew
References: <U0Boh.38170$lD5.11498@newsfe14.phx>
<1168624067.101672.225160@51g2000cwl.googlegroups.com>

```
Subject: Re: FYI: Online datasheets source
Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <hMQph.7435$xj6.3504@newsfe13.phx>
Date: Fri, 12 Jan 2007 10:50:51 -0800
NNTP-Posting-Host: 72.197.12.245
X-Complaints-To: admin@cox.net
X-Trace: newsfe13.phx 1168627853 72.197.12.245 (Fri, 12 Jan 2007 11:50:53 MST)
NNTP-Posting-Date: Fri, 12 Jan 2007 11:50:53 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:8651


<rdscanning@googlemail.com> wrote in message
news:1168624067.101672.225160@51g2000cwl.googlegroups.com...
>
> Caveat Lector wrote:
>> In case you haven't seen it
>>
>> DatasheetCatalog.com is free an online datasheet source for electronic
>> components and semiconductors from several manufacturers
>>
>> http://www.datasheetcatalog.com/
>>
>> 73 CL
>
> http://www.datasheetarchive.com is another good one. They have 5x more
> datasheets than datasheetcatalog even if a bit slower.
>

Excellent - thanks
CL
```

```
From 4968735883990136707
X-Google-Thread: fc2a5,74a1ef66850c2105,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!out02b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-
out.readnews.com!postnews3.readnews.com!posts.news.usenetmonster.com!
nnrp3.asbnva.usenetmonster.com!not-for-mail
From: "JimL" <jimbethladd@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA- National R-175  R.F. Plate Choke
Date: Fri, 12 Jan 2007 19:07:13 -0500
X-Priority: 3
```

```
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Lines: 3
Message-ID: <45a8226a$0$9732$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
NNTP-Posting-Host: 9d6d3ca2.news.usenetmonster.com
X-Trace: DXC=dTHgSeY35KjFfAPoNJleVim>XX`Id5knh`IohDjb_78l?^lWMi4S?
meS@nCFQNo27dV]UnmY7I`FnGdkLWN=Z0@eof[e3kAc@AcV=D=3MS:CZj
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8652
```

Please see Ebay no. 160073508085. Tnx, Jim.

```
From -7188259617676793043
X-Google-Thread: fc2a5,36e09822a9caf2f4
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 12 Jan 2007 20:08:31 -0600
From: Dan Andersson <dan@andersson.co.uk>
Subject: Re: Digital controlled VGA
Newsgroups: rec.radio.amateur.homebrew
Date: Sat, 13 Jan 2007 02:08:30 +0000
References: <45a6a430$0$4162$ba624c82@nntp02.dk.telia.net>
Organization: @Home
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=utf-8
Content-Transfer-Encoding: 8Bit
Message-ID: <squdndaSR-i9ojXYnZ2dnUVZ8t_inZ2d@eclipse.net.uk>
Lines: 32
NNTP-Posting-Host: 87.102.14.39
X-Trace: sv3-Kluj0Arv91mmE5VxKgWpx3vRqnB8Sj0DwAWBDmEnd68DPR3gVniLf+/
Noj4HVJwSOhMaLKkBDjk9HGN!hTg3N/O+X27Zg/mvVSoaLfBpqbgUjCpBZL9zF3vaWT2UsPuvVFivp/
lbTbG/VxMQU6b6tGogY0tD!Y1mzgaDTHanuuya9a5c=
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8653
```

Frank Mikkelsen wrote:

> Hi group

```
>
> I am looking for an digital controlled variable gain amplifier with BW >
> 200MHz.
>
> The amplifier had to have min. 256 steps and should be used in an 50R
> system therefore impedance match on in- and output are preferred. Max
> output power 10->20dBm.
>
> I can�t find any integrated amplifier there match these requirements. My
> best choice is AD8368
> http://www.analog.com/en/prod/0,,759_787_AD8368%2C00.html and then use a
> DAC for the digital control.
>
> Have I missed some? Any suggest will be appreciated very much
>
> Thanks in advance
>
>
>
> Frank



Use ADL5330 in combination with a log amp. You can control the ADL5330 with
an ADC.

As extra bonus, you achieve a very nice automatic level control.

//Dan, M0DFI


From -3239611631639600775
X-Google-Thread: fc2a5,c3e6aedf8a2c7631,start
X-Google-Thread: fc8b1,c3e6aedf8a2c7631,start
X-Google-Thread: 113975,c3e6aedf8a2c7631,start
X-Google-Thread: 107ada,c3e6aedf8a2c7631,start
X-Google-Thread: 111d0a,c3e6aedf8a2c7631,start
X-Google-Attributes: gidfc2a5,gidfc8b1,gid113975,gid107ada,gid111d0a,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!38g2000cwa.googlegroups.com!not-for-
mail
From: bill.meara@gmail.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.astro.amateur,rec.rad
io.amateur.misc,sci.electronics.basics
Subject: SoldersSmoke#46: Amplifiers, Oscillators, Lasers, Comets, Planets,
Telescopes, MAILBAG
Date: 13 Jan 2007 03:53:23 -0800
Organization: http://groups.google.com
Lines: 54
Message-ID: <1168689202.431209.277390@38g2000cwa.googlegroups.com>
NNTP-Posting-Host: 86.145.18.160
Mime-Version: 1.0
```

Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1168689216 3089 127.0.0.1 (13 Jan 2007 11:53:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 13 Jan 2007 11:53:36 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 38g2000cwa.googlegroups.com; posting-host=86.145.18.160;
   posting-account=7vRsuQwAAADlh58wGAIfEFYQRw36eW7d
Xref: g2news2.google.com rec.radio.amateur.homebrew:8654 rec.radio.amateur.boatanchors:7136 sci.astro.amateur:50027 rec.radio.amateur.misc:27944 sci.electronics.basics:32197

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A SHOW FOR ELECTRONICS HOMEBREWERS!

http://www.soldersmoke.com

Listen at: http://www.soldersmoke.com

SolderSmoke #46

January 13, 2007
--Mike's oscillator work.
--Michigan Mighty Mite.
--Lasers, diodes, and Einstein.
--Laser communication experiment.
--W7ZOI-KL7R QSO on SKN.
--M0HBR's feedback amps.
--The new comet.
--Saturn, Jupiter and calculation of c.
--17 meter QSOs.
--New SPRAT CD.
--MAILBAG: China enigma, VE4KEH, M0DAD, GU0SUP, M1CNK, K4AHU, KD4EDM, KG9DK, AA6KI, VA7AT, ON5EX

Tired of listening to Led Zepplin or NPR on your I-Pod?   Wouldn't you like to be able to carry with you the kinds of ham radio conversations that you listen to while in your radio shack?
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http://www.soldersmoke.com/soldersmoke.rss

If you don't have an MP3 player you can just go to the
site below and listen to the latest program (and
earlier editions) using the audio software on your
computer.

http://www.soldersmoke.com

All our programs are available here.

We hope you enjoy the program. Please send us
feedback.

73 from London
Bill M0HBR N2CQR CU2JL

```
From -4817601569632845883
X-Google-Thread: fc2a5,dd74b72dddcdcfdb
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!news.glorb.com!
bigfeed2.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!
news.bellsouth.net!bignews4.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal Ham Receiver (cont.)
References: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
<7I6dnVhp6umBhjjYnZ2dnUVZ_sSmnZ2d@comcast.com>
In-Reply-To: <7I6dnVhp6umBhjjYnZ2dnUVZ_sSmnZ2d@comcast.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 9
Message-ID: <548qh.210$bp4.70@bignews4.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
npbhgpngjbkmjfegdbdpiflmbcekedmfhojhikkbagflhcbojballbmdpkoojefhdmoilmgppgjchobkij
cpmgocibciebembfljnejhehmhhfhllakkedcbbdgabjilepnoppjapilndhfmcnpdjnlfiihalnbd
NNTP-Posting-Date: Sat, 13 Jan 2007 11:49:05 EST
Organization: BellSouth Internet Service
Date: Sat, 13 Jan 2007 11:54:00 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8655
```

Pete KE9OA wrote:
> The only mechanical filters that I have seen problems with are the Japanese
> units that you find in the JRC receivers. There is some sort of foam that
> deteriorates over the years. I haven't seen a problem with Collins filters.

I have an old Collins filter made for the R390 series receivers. It is
a cylindrical filter with two pins at each end for connections. I can

hear something rattling around inside this filter as I tilt it from side
to side. Has something deteriorated inside this filter or is this
normal? A later rectangular Collins filter does NOT make this noise.

From -2656053064725167654
X-Google-Thread: fc2a5,dd74b72dddcdcfdb
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!news.kjsl.com!
ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal Ham Receiver (cont.)
Date: 13 Jan 2007 17:10:25 GMT
Organization: The National Capital FreeNet
Lines: 20
Message-ID: <eob3q1$3rj$1@theodyn.ncf.ca>
References: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
<7I6dnVhp6umBhjjYnZ2dnUVZ_sSmnZ2d@comcast.com>
<548qh.210$bp4.70@bignews4.bellsouth.net>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1168708225 3955 134.117.136.48 (13 Jan 2007 17:10:25 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 13 Jan 2007 17:10:25 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8656

ken scharf (wa2mzeNOSPAMBOTS@bellsouth.net) writes:
> Pete KE9OA wrote:
>> The only mechanical filters that I have seen problems with are the Japanese
>> units that you find in the JRC receivers. There is some sort of foam that
>> deteriorates over the years. I haven't seen a problem with Collins filters.
> I have an old Collins filter made for the R390 series receivers. It is
> a cylindrical filter with two pins at each end for connections. I can
> hear something rattling around inside this filter as I tilt it from side
> to side. Has something deteriorated inside this filter or is this
> normal? A later rectangular Collins filter does NOT make this noise.

I don't think a noise is normal.

But, it's always possible that they can be dropped.

The issue Pete is talking about is that those Japanese filters were
made with different materials, and they decay with time.

  Michael VE2BVW

From 5308450558398490796
X-Google-Thread: fc2a5,dd74b72dddcdcfdb
X-Google-Attributes: gidfc2a5,public

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews4.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal Ham Receiver (cont.)
References: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
<7I6dnVhp6umBhjjYnZ2dnUVZ_sSmnZ2d@comcast.com>
<548qh.210$bp4.70@bignews4.bellsouth.net> <eob3q1$3rj$1@theodyn.ncf.ca>
In-Reply-To: <eob3q1$3rj$1@theodyn.ncf.ca>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 27
Message-ID: <qs8qh.213$bp4.33@bignews4.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
npbhgpngjbkmjfegdbdpiflmbcekedmfhojhikkbagflhcbogfokillpaabomkabgklipjakcbkcflgbij
cpmgocibciebembfljnejhehmhhfhllakkedcbbdgabjilmoenpfaciijeojeicnpdjnlfiihalnbd
NNTP-Posting-Date: Sat, 13 Jan 2007 12:15:02 EST
Organization: BellSouth Internet Service
Date: Sat, 13 Jan 2007 12:19:56 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8657

Michael Black wrote:
> ken scharf (wa2mzeNOSPAMBOTS@bellsouth.net) writes:
>> Pete KE9OA wrote:
>>> The only mechanical filters that I have seen problems with are the Japanese
>>> units that you find in the JRC receivers. There is some sort of foam that
>>> deteriorates over the years. I haven't seen a problem with Collins filters.
>> I have an old Collins filter made for the R390 series receivers. It is
>> a cylindrical filter with two pins at each end for connections. I can
>> hear something rattling around inside this filter as I tilt it from side
>> to side. Has something deteriorated inside this filter or is this
>> normal? A later rectangular Collins filter does NOT make this noise.
>
> I don't think a noise is normal.
>
> But, it's always possible that they can be dropped.
>
> The issue Pete is talking about is that those Japanese filters were
> made with different materials, and they decay with time.
>
>   Michael VE2BVW
>
My filter has never left the original Collins packing (heavy cotton
lining in a large cardboard box) since I got it at a hamfest years ago
(for a project that never happened). I remember the filter seemed ok
when I bought it, and it was NEVER dropped (by me anyway). Years later

when I found it while packing for a move I noticed it developed this
sound when handled.

From 3070287961640813920
X-Google-Thread: fc2a5,628c1c6a03500c29,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.neonova.net!
news.neonova.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 13 Jan 2007 15:36:48 -0600
Date: Sat, 13 Jan 2007 13:36:37 -0800
From: Jim Barber <jim@sonicfocus.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: 8877's from storage - "cooking" time?
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <R4mdnUHR8ZptzTTYnZ2dnUVZ_umlnZ2d@neonova.net>
Lines: 10
NNTP-Posting-Host: 12.144.251.150
X-Trace: sv3-nRXEThq9OZSXmu+W31waKku6mctTTVHO/
yBz+V0wcAQfJ+M+GrsL4laD4RDBDeDr53ZD6W69ilFSiRE!4efknDezRmizUUg3MAqWA/
psKTOLl7DOORH3GLZx2AetOuJhSLigJWFlD+SwYVzfV15xsDmDwT4g!yJhuU68rMZubdA==
X-Complaints-To: abuse@neonova.net
X-DMCA-Complaints-To: abuse@neonova.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8658

I have several Eimac 8877's I bought as tested new-equipment pulls
around 5 years ago. I tested them again myself at the time, then packed
them away.

Here it is 5 years or so later. The question for the panel is how long
should I "cook" the filaments before putting plate voltage on?

Thanks,

Jim, N7CXI

From -433339620163126829
X-Google-Thread: fc2a5,628c1c6a03500c29
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bigfe9.POSTED!

```
ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 8877's from storage - "cooking" time?
References: <R4mdnUHR8ZptzTTYnZ2dnUVZ_umlnZ2d@neonova.net>
In-Reply-To: <R4mdnUHR8ZptzTTYnZ2dnUVZ_umlnZ2d@neonova.net>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 23
Message-ID: <hahqh.1349$To.897@bigfe9>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
okpbgeeoboblnbegighgldmaahappcdodmoilmgppgjchobkijcpmgocibciebembfljnejhehmhhfhlim
bdpibkfckkgkegccofmoaejeofcmobcnpdjnlfiihalnbd
NNTP-Posting-Date: Sat, 13 Jan 2007 22:10:05 EST
Organization: BellSouth Internet Group
Date: Sat, 13 Jan 2007 22:10:11 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8659

Jim Barber wrote:
> I have several Eimac 8877's I bought as tested new-equipment pulls
> around 5 years ago. I tested them again myself at the time, then packed
> them away.
>
> Here it is 5 years or so later. The question for the panel is how long
> should I "cook" the filaments before putting plate voltage on?
>
> Thanks,
>
> Jim, N7CXI
I don't think that the tubes will go bad just sitting on the shelf for 5
years, they should work the same as the last time they were used.
Having said that, it is always a good idea to wait until the cathode
reaches full emission before applying plate voltage and rf drive.

I would think that these tubes reach that point within a minute of
applying filament power.  You could apply filament power to the tube on
the work bench and monitor the tube temperature.  With the tube out of
the socket and heater power applied via use of heavy clip leads you can
feel the base of the tube with your hand and see how long it takes to be
able to feel the cathode heat reach the outside of the bottle.  (It
won't be hot, just luke warm).


From 2138632150515698911
X-Google-Thread: fc2a5,4a880fea59e37022,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a75g2000cwd.googlegroups.com!not-for-
```

```
mail
From: "beerbarrel" <beerbarrel@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: TV-7 tube tester parts unit
Date: 13 Jan 2007 20:10:57 -0800
Organization: http://groups.google.com
Lines: 6
Message-ID: <1168747857.080762.312310@a75g2000cwd.googlegroups.com>
NNTP-Posting-Host: 24.252.195.51
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1168747868 20102 127.0.0.1 (14 Jan 2007 04:11:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 14 Jan 2007 04:11:08 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.0),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a75g2000cwd.googlegroups.com; posting-host=24.252.195.51;
   posting-account=h-m-bQ0AAACxVzhpr8bCRh9ypiHCe44a
Xref: g2news2.google.com rec.radio.amateur.homebrew:8660

http://tinyurl.com/y53e4p


Thanks,
KE4ODD




From -5949942652156342386
X-Google-Thread: fc2a5,d2e0b6dcca7d384f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!newsfeeds.ihug.co.nz!
ihug.co.nz!ken-transit.news.telstra.net!lon-in.news.telstra.net!news.telstra.net!
news-server.bigpond.net.au!53ab2750!not-for-mail
From: "John" <vk2kce@yahoo.com.au>
Newsgroups: rec.radio.amateur.homebrew
References: <fVynh.1978$A8.1052@news-server.bigpond.net.au>
<1168033004.985799.300470@51g2000cwl.googlegroups.com> <9oHnh.2272$A8.1519@news-
server.bigpond.net.au> <12q608up4e2l9d9@corp.supernews.com>
Subject: Re: Schedule 40 PVC
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <iBiqh.758$u8.651@news-server.bigpond.net.au>
Date: Sun, 14 Jan 2007 04:47:10 GMT
NNTP-Posting-Host: 138.130.137.164
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1168750030 138.130.137.164 (Sun, 14 Jan 2007
```

15:47:10 EST)
NNTP-Posting-Date: Sun, 14 Jan 2007 15:47:10 EST
Organization: BigPond Internet Services
Xref: g2news2.google.com rec.radio.amateur.homebrew:8661

Thanks Roy and those who have responded.
I did just that, I found a willing assistant who cut off some pieces for me
and after measuring them I found that our Series 1PVC is equivalent to the
USA std of Schedule 40.
Regards,
John

"Roy Lewallen" <w7el@eznec.com> wrote in message
news:12q608up4e2l9d9@corp.supernews.com...
: HH wrote:
: > Been there and done that, and I didn't find the page you found, thank
you
: > all for your help.
: > I really appreciate it!
:
: You might try venturing out to your local hardware, plumbing, or DIY
: store with a ruler. It's less convenient than surfing the Internet, but
: there's no problem with finding the right URL. All you have to find is
: the pipe.
:
: Roy Lewallen, W7EL

From 3016190590300885184
X-Google-Thread: fc2a5,b0a5bdf8dad04afd,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l53g2000cwa.googlegroups.com!not-for-mail
From: "NT0Z" <kirk@cloudnet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Help with Stealth Antenna + Counterpoise
Date: 14 Jan 2007 00:20:40 -0800
Organization: http://groups.google.com
Lines: 82
Message-ID: <1168762839.872810.130940@l53g2000cwa.googlegroups.com>
NNTP-Posting-Host: 68.115.93.143
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1168762845 22867 127.0.0.1 (14 Jan 2007 08:20:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 14 Jan 2007 08:20:45 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com

Injection-Info: l53g2000cwa.googlegroups.com; posting-host=68.115.93.143;
   posting-account=HMV32AwAAAD3qWLCvxcnTptTo5V7rGHi
Xref: g2news2.google.com rec.radio.amateur.homebrew:8662

Hi, gang:

Just moved into a "Townhouse" and am now stuck with doing the invisible antenna thing... I need some insight. Please read:

My 4-plex has four side-by-side units, each with a ground floor plus an upstairs (plus a hard-to-access upstairs attic space). Looking at things from the backyard, my unit is on the left. After thinking about various solutions for a few months, I decided that the cheap-n-dirty approach was to load up the 75-foot horizontal run of seamless gutter, which runs from east to west. It's about 22 feet above the ground and runs the length of the common roof line. My shack is on the ground floor about 15 feet from the left-hand downspout. With me so far?

To keep things sneaky and to get a better electrical connection to the seamless gutter, I crawled out the bedroom window onto the garage roof...and used a stepladder to climb onto the main roof (yes, at night, of course!). Surviving that, I used an electrical "fish wire" to drop an 18-gauge insulated wire to ground level INSIDE the downspout. Up top, the wire runs horizontally inside the gutter for about 15 feet, where the peak of the garage roof (easy access) puts the gutter at eye level. At the "feed point," about 15 feet into the 75-foot horizontal run, I sanded off the protective coating on the inside of the gutter, drilled a small hole for an 8-32 stainless screw and attached the antenna wire via a soldered lug. I cranked everything down tight and sealed it with silicone for WX protection.

At ground level, the downspout sits a couple of inches above my side door patio slab, so I positioned an empty outdoor hose reel/box to the left of the spout (looks natural and doesn't draw any suspicious glances). Inside the hose box is my SGC autocoupler, which is connected to the wire coming out the downspout (can't be seen without a microscope) and a 1/4-wave counterpoise for each band from 80 through 6 meters. The counterpoise wires, made from 24-gauge enamel-covered motor wire, are bundled together and run around the foundation slab to the north and are hidden by the decorative rock that circles the condo, etc. Also buried in the rock and butted against the slab is a 25-foot run of RG-8X coax, bundled with a length of the same wire I used for the antenna (to power the autocoupler). The downspout is essentially in the center of the building on the north-south axis. The counterpoise goes north and bends around the building to the east while the coax runs to the south and enters the attached garage just above the floor slab. (I converted the attached garage to my office/shack.)

Okay. So I have a 95-foot inverted-L, with 22 feet being vertical, the rest horizontal, worked against a counterpoise system. Not a Steppir Yagi at 200 feet...and not a horizontal loop at 50 feet...but better than a sharp stick in the eye...

QUESTION 1: The downspout has several angled, press-fit sections and, under these circumstances, I'm always worried about nonlinear rectification. Do I connect the bottom end of the downspout to the antenna wire at the autocoupler level...or do I let the antenna wire float inside the downspout...knowing that they're electrically connected (via press fit junctions) to the seamless gutter up above? If I don't tie in the bottom of the downspout, will it "shield" the wire inside or act "strange" with the autotuner? And what about nonlinear rectification? I can only connect the bottom of the downspout. The upper angles and bends are essentially inaccessible.

QUESTION 2: I can optionally run a second pair of counterpoise wires to the south (40 meters and up - no 80), but the wires will have to be bundled with the RG-8X coax, which runs to the shack. Could there be any potentially bad interaction between the second set of counterpoise wires and the feed line? Coupling? Inductance? RF in the shack hassles? And if that's NOT an issue, is a second set of counterpoise wires going to make a noticeable difference in antenna performance?

I mostly run 100 mW to 10 W, CW and RTTY/PSK. I sort of planned to avoid SSB in case I'm messing with someone's clock radio down at the other end of the building :) I'm in the process of trying to find an IC-703 or an Argonaut of some sort (sold all radios a year ago...long story), but if I can only acquire a 100-W rig, I might be tempted to run 100 W on rare and desperate occasions (to work the Sultan of Bhutan, or whatever :)

SUGGESTIONS? COMMENTS?

All are welcome, of course!

--Kirk, NT0Z

From -4271535113983952436
X-Google-Thread: fc2a5,628c1c6a03500c29
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.neonova.net!news.neonova.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 14 Jan 2007 13:38:08 -0600
Date: Sun, 14 Jan 2007 11:37:55 -0800
From: Jim Barber <jim@sonicfocus.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 8877's from storage - "cooking" time?
References: <R4mdnUHR8ZptzTTYnZ2dnUVZ_umlnZ2d@neonova.net>
<hahqh.1349$To.897@bigfe9>
In-Reply-To: <hahqh.1349$To.897@bigfe9>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed

Content-Transfer-Encoding: 7bit
Message-ID: <L9udnTcezaE9GzfYnZ2dnUVZ_oytnZ2d@neonova.net>
Lines: 37
NNTP-Posting-Host: 12.144.251.150
X-Trace: sv3-6Le7aR72JgeEHrd/0aPe45NoN3SIiLPGMP3k1n9SseiBVvUZzc/X6+5Mko2xsl/
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Mh7BzSduz1sELYbAttJTCDnPkWoYj8bgY99cEdK3K8Lwagxv6hqzqrYZK815wLnvHh8O+nrp8ZAb!
29cwlVs3l3T1mA==
X-Complaints-To: abuse@neonova.net
X-DMCA-Complaints-To: abuse@neonova.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8663

Thanks.

I wasn't concerned about them going bad per se, just tiny bits of gas
released from the inside not getting 'getted' and causing a flashover
when plate voltage is first applied after long-term storage.

It seems that any time I fire up an Eimac ceramic triode after it's been
sitting a long time it flashes over once just to spite me and stress
the supply. Maybe it's just bad luck or other operating practice on my part.

Jim, N7CXI

ken scharf wrote:
> Jim Barber wrote:
>> I have several Eimac 8877's I bought as tested new-equipment pulls
>> around 5 years ago. I tested them again myself at the time, then packed
>> them away.
>>
>> Here it is 5 years or so later. The question for the panel is how long
>> should I "cook" the filaments before putting plate voltage on?
>>
>> Thanks,
>>
>> Jim, N7CXI
> I don't think that the tubes will go bad just sitting on the shelf for 5
> years, they should work the same as the last time they were used.
> Having said that, it is always a good idea to wait until the cathode
> reaches full emission before applying plate voltage and rf drive.
>
> I would think that these tubes reach that point within a minute of
> applying filament power. You could apply filament power to the tube on
> the work bench and monitor the tube temperature. With the tube out of
> the socket and heater power applied via use of heavy clip leads you can
> feel the base of the tube with your hand and see how long it takes to be
> able to feel the cathode heat reach the outside of the bottle. (It
> won't be hot, just luke warm).

```
From 4566603289338479927
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a75g2000cwd.googlegroups.com!not-for-
mail
From: "ray13" <ray_psi@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave UPDATE
Date: 14 Jan 2007 14:24:53 -0800
Organization: http://groups.google.com
Lines: 17
Message-ID: <1168813493.411646.108020@a75g2000cwd.googlegroups.com>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
   <1166031794.175793.239780@n67g2000cwd.googlegroups.com>
   <slrneo0lat.1b3.gsm@cable.mendelson.com>
   <gIqdnWuSo6F8RB3YnZ2dnUVZ8s6qnZ2d@pipex.net>
NNTP-Posting-Host: 63.215.162.125
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1168813503 27679 127.0.0.1 (14 Jan 2007 22:25:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 14 Jan 2007 22:25:03 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.0.9) Gecko/
20060911 SUSE/1.5.0.9-0.1 Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a75g2000cwd.googlegroups.com; posting-host=63.215.162.125;
   posting-account=BaJWiQsAAAA6oyAftes6xeuZHJqoZd41
Xref: g2news2.google.com rec.radio.amateur.homebrew:8664
```

Highland Ham wrote:

```
> >I'm seriously considering getting a ham license. So far, the only thing
> >holding me back is learning Morse code for CW.
> ==========================
> You currently only need to do a 5 wpm morse (receive only) for the
> highest class of licence ,giving you all the privileges available to a
> licenced radio amateur.
> So you can start with with getting licences with not all the privileges
> and enjoy operating before you go for the Amateur Extra class of licence.
>
> Frank   KN6WH / GM0CSZ
```

Well effective sometime in Feburary, 2007 you won't need code to get
the highest class of license. See?

My crystal ball saw this a coming.

```
From 2840342791529690295
```

```
X-Google-Thread: fc2a5,b0a5bdf8dad04afd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 14 Jan 2007 19:34:59 -0600
From: "Zommbee" <devarim@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1168762839.872810.130940@l53g2000cwa.googlegroups.com>
Subject: Re: Help with Stealth Antenna + Counterpoise
Date: Sun, 14 Jan 2007 17:34:55 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <8tqdnbnUzrjeRzfYnZ2dnUVZ_oipnZ2d@comcast.com>
Lines: 38
NNTP-Posting-Host: 71.231.249.190
X-Trace: sv3-
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kJis5EwATysRyo9/kpwRt0RrFuGZ4k5Iz0Wjme0az15ze9SBoWRH7JEYp1vTBac783EfXir+2a81!
OnPlq+C98qrBTuh8TEfMQW4nYg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8665
```

> SUGGESTIONS? COMMENTS?
>
> All are welcome, of course!
>
> --Kirk, NT0Z

Whatever you can get to work - just do the best you can. I was in the same situation in a condo, although I was on the 3rd floor. I tried loading the gutters, but got very poor performance. I ended up with just a 30' run of 26ga enameled wire run from the bedroom window out to the eaves under the balcony, and that worked great. But I was running a Drake C-Line (this was in the year 2000) and had lots of power. I worked all over the US and some DX on 40 and 20, with a Kenwood TS-180 manual tuner. QRP would have been a very different story. I only run CW, so didn't have any experience with SSB. I'm sure I was lighting up something in the building, but never got complaints (of course, no one knew I had an antenna!) and only ran late at night on 40 and in the middle of the day (when folks typically aren't watching TV or even at home).

If you get a good sharp dip at resonance with your tuner, you will probably not have a lot of interference problems. But if the tuning is 'mushy' and very low Q, watch out! You're probably not getting out, and just swamping the house with RF. Be sure to employ a good LP filter as well.

I wouldn't expect much QRP performance, especially at 100 MW!

Just give it a go and see what happens.

Dave WB7AWK

```
From -2574968086119854234
X-Google-Thread: fc2a5,7ea2dbb58cc894a3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 14 Jan 2007 20:20:49 -0600
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <TJEph.371479$Fi1.104223@bgtnsc05-news.ops.worldnet.att.net>
Subject: Re: Software defined radio
Date: Sun, 14 Jan 2007 20:20:48 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <25udna8ARPKceDfYnZ2dnUVZ_hmtnZ2d@comcast.com>
Lines: 34
NNTP-Posting-Host: 24.14.246.77
X-Trace: sv3-QxkZj/3U/fCJO3YMR05tnFXYI/zqlZRI/t6ujFI9dGMnwG5Yf0/
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dENJBhBMiP279+xvbCQpbNf!oZ7Z5Fovgx4b8O7XOw==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8666
```

"numeric" <numeric@att.net> wrote in message news:TJEph.371479$Fi1.104223@bgtnsc05-news.ops.worldnet.att.net...

```
> Hi,
>
> My objective is to homebrew a 10khz to 60Mhz software defined radio; one
> that uses the power of the PC for all modulation and demodulation
> functions.
> There are several references for a direct conversion receiver that uses a
> sample and hold detector or Tayloe detector which seems to provide
> remarkable performance. If possible I would like to use this detector; it
> embraces the KISS approach ;-). The problem I find however, is that the
> detector responds to odd harmonics of the receiving frequency, for a
> doubly
> balanced configuration. ;-(  As an example, if the receiver is tuned to 10
> Mhz, a signal of 30Mhz will also be received. Using Linear Technology
> LTspice (which is a free spice type simulator) to simulate the detector,
> the
> 30Mhz signal is about 10db lower then the 10Mhz desired signal. Looking
> for
> 140db or better difference; have a long way to go. Possibly there is an
> error in the simulation; but I think, unfortunately, it is correct. After
> all, the switch function is not linear. A Fourier analysis of the switch
> pulse closely agrees with the detected result; the third harmonic is about
> 10db lower then fundamental. Does anyone have experience with this type of
> detector?
> Thank You.
>
Personally, I would put that effort into the HPSDR project -- which benefits
all (open source) and expands your total education.

http://hpsdr.org/






From 946554502145361812
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s34g2000cwa.googlegroups.com!not-for-
mail
From: "NT0Z" <kirk@cloudnet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave UPDATE
Date: 15 Jan 2007 02:28:20 -0800
Organization: http://groups.google.com
Lines: 18
Message-ID: <1168856900.889905.192880@s34g2000cwa.googlegroups.com>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
   <1166031794.175793.239780@n67g2000cwd.googlegroups.com>
   <slrneo0lat.1b3.gsm@cable.mendelson.com>
   <gIqdnWuSo6F8RB3YnZ2dnUVZ8s6qnZ2d@pipex.net>
   <1168813493.411646.108020@a75g2000cwd.googlegroups.com>
NNTP-Posting-Host: 68.115.93.143
```

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X-Trace: posting.google.com 1168856912 30538 127.0.0.1 (15 Jan 2007 10:28:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 15 Jan 2007 10:28:32 +0000 (UTC)
In-Reply-To: <1168813493.411646.108020@a75g2000cwd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s34g2000cwa.googlegroups.com; posting-host=68.115.93.143;
   posting-account=HMV32AwAAAD3qWLCvxcnTptTo5V7rGHi
Xref: g2news2.google.com rec.radio.amateur.homebrew:8667
```

Hey, OM:

If I remember correctly, in the late '80s / early '90s, Phillips made
an in-dash AM/FM/SWL/Cassette car radio. Always wanted one. I'm sure
there are still a few lurking out there.

Hey...just checked. Here's a Sony car stereo that covers SWL bands,
too!

See it at:

www.shortwavestore.com/sws/product.php?productid=595&cat=42&page=1

Nifty!

--Kirk, NT0Z

```
From 6981264732502249834
X-Google-Thread: fc2a5,b0a5bdf8dad04afd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 15 Jan 2007 05:57:49 -0600
Date: Mon, 15 Jan 2007 11:57:47 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Help with Stealth Antenna + Counterpoise
References: <1168762839.872810.130940@l53g2000cwa.googlegroups.com>
<8tqdnbnUzrjeRzfYnZ2dnUVZ_oipnZ2d@comcast.com>
In-Reply-To: <8tqdnbnUzrjeRzfYnZ2dnUVZ_oipnZ2d@comcast.com>
```

Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <UfSdndbJkJyg8TbYnZ2dnUVZ_oSnnZ2d@bright.net>
Lines: 25
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-gVY8gEOI5QzQYEKL8GEgdDap0a+NoMNCN+LYgOZhIDFWUwluBborySY/
5Q7kL5usxIfVLgH2n0GvDgK!
GxgLSSsD0EUdCOT08CCp7qajN7cT0JfKnhE0p7Kh3RtKXtc9Fc40Oqze1Ry+LPrV9LB6yovGRJBQ!
TYrcyrQGpA==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8668

Heck, he should be heard gangbusters with 100 MW...100 mW might be a
different story! ;)

Sorry, couldn't resist...

Scott
N0EDV

Zommbee wrote:

>>SUGGESTIONS? COMMENTS?
>>
>>All are welcome, of course!
>
>
>
>
> I wouldn't expect much QRP performance, especially at 100 MW!
>
> Just give it a go and see what happens.
>
> Dave WB7AWK
>
>

From 4662869761749893608
X-Google-Thread: fc2a5,628c1c6a03500c29
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s34g2000cwa.googlegroups.com!not-for-mail
From: "Denny" <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 8877's from storage - "cooking" time?

Date: 15 Jan 2007 05:12:15 -0800
Organization: http://groups.google.com
Lines: 31
Message-ID: <1168866735.017633.119410@s34g2000cwa.googlegroups.com>
References: <R4mdnUHR8ZptzTTYnZ2dnUVZ_umlnZ2d@neonova.net>
NNTP-Posting-Host: 71.90.42.60
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1168866742 11467 127.0.0.1 (15 Jan 2007 13:12:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 15 Jan 2007 13:12:22 +0000 (UTC)
In-Reply-To: <R4mdnUHR8ZptzTTYnZ2dnUVZ_umlnZ2d@neonova.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; IEMB3; IEMB3),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s34g2000cwa.googlegroups.com; posting-host=71.90.42.60;
   posting-account=GhrC0g0AAACdrABM-CDx8Fhs5lKJR5q2
Xref: g2news2.google.com rec.radio.amateur.homebrew:8669

Jim, I would suggest a bit more than a minute or two.. You may want to pop that question over on rec.radio.amateur.amps and get the group opinion... I would suggest a 24 hour filament preheat after long storage... There is no more effort in letting it cook 24 hours than for 3 minutes...
I have no direct experience with the 8877 but I do speak 4cx800... The majority of the amp builders getter new tubes with filament heat only for up to 24 hours before applying HV.... One of the failings of hams is that we seem to think that turning on the filament is wearing out the tube... Whereas the broadcast industry turns the filaments on and leaves them on because they know what wears out the tubes is cycling the filament from cold to hot over and over...

I just finished bringing a 3CX1200D7 back to full output with a controlled filament over voltage for 6.5 minutes with no HV applied...

cheers ... denny / k8do

Jim Barber wrote:
> I have several Eimac 8877's I bought as tested new-equipment pulls
> around 5 years ago. I tested them again myself at the time, then packed
> them away.
>
> Here it is 5 years or so later. The question for the panel is how long
> should I "cook" the filaments before putting plate voltage on?
>
> Thanks,
>
> Jim, N7CXI

```
From 5123695571792536280
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!
newshosting.com!198.186.194.247.MISMATCH!news-out.readnews.com!news-
xxxfer.readnews.com!news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave UPDATE
Date: Mon, 15 Jan 2007 13:21:16 +0000 (UTC)
Organization: MGT Consulting
Lines: 27
Message-ID: <slrneqmvfg.4lb.gsm@cable.mendelson.com>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
<1166031794.175793.239780@n67g2000cwd.googlegroups.com>
<slrneo0lat.1b3.gsm@cable.mendelson.com>
<gIqdnWuSo6F8RB3YnZ2dnUVZ8s6qnZ2d@pipex.net>
<1168813493.411646.108020@a75g2000cwd.googlegroups.com>
<1168856900.889905.192880@s34g2000cwa.googlegroups.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-139-130-136.bb.netvision.net.il
X-Trace: marvin.misty.com 1168867276 6227 89.139.130.136 (15 Jan 2007 13:21:16
GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Mon, 15 Jan 2007 13:21:16 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8670
```

NT0Z wrote:

> If I remember correctly, in the late '80s / early '90s, Phillips made
> an in-dash AM/FM/SWL/Cassette car radio. Always wanted one. I'm sure
> there are still a few lurking out there.
>
> Hey...just checked. Here's a Sony car stereo that covers SWL bands,
> too!

They used to be popular in Europe where SW broadcasts were commonly used as sources of news and entertainment. There may be many models still available there. The problem with using them in the U.S. is that the AM tuner will not work properly as the stations are 9kHz apart instead of 10kHxz, and the FM stations will sound different.

I doubt that anyone driving in a car would notice the difference (it's due to how the high freqencie sounds are processed) and the tuners may be set or modifed to 10kHz spacing, or tune in 1KHz intervals.

73,

Geoff.

```
--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com  N3OWJ/4X1GM
IL Voice: (07)-7424-1667  Fax ONLY: 972-2-648-1443 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/


From 3074330734859791698
X-Google-Thread: fc2a5,7ea2dbb58cc894a3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wn12feed!worldnet.att.net!bgtnsc04-
news.ops.worldnet.att.net.POSTED!7bd46aa5!not-for-mail
From: "numeric" <numeric@att.net>
Newsgroups: rec.radio.amateur.homebrew
References: <TJEph.371479$Fi1.104223@bgtnsc05-news.ops.worldnet.att.net>
<25udna8ARPKceDfYnZ2dnUVZ_hmtnZ2d@comcast.com>
Subject: Re: Software defined radio
Lines: 48
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Message-ID: <VlNqh.725686$QZ1.360878@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: bef955e8bac9143e4999ff97a56eb2d7
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1168876021
bef955e8bac9143e4999ff97a56eb2d7 (Mon, 15 Jan 2007 15:47:01 GMT)
NNTP-Posting-Date: Mon, 15 Jan 2007 15:47:01 GMT
Organization: AT&T Worldnet
Date: Mon, 15 Jan 2007 15:47:01 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8671


"w9gb" <spam_protect@arrl.net> wrote in message
news:25udna8ARPKceDfYnZ2dnUVZ_hmtnZ2d@comcast.com...
> "numeric" <numeric@att.net> wrote in message
> news:TJEph.371479$Fi1.104223@bgtnsc05-news.ops.worldnet.att.net...
> > Hi,
> >
> > My objective is to homebrew a 10khz to 60Mhz software defined radio; one
> > that uses the power of the PC for all modulation and demodulation
> > functions.
> > There are several references for a direct conversion receiver that uses
a
> > sample and hold detector or Tayloe detector which seems to provide
> > remarkable performance. If possible I would like to use this detector;
it
> > embraces the KISS approach ;-). The problem I find however, is that the
> > detector responds to odd harmonics of the receiving frequency, for a
> > doubly
> > balanced configuration. ;-(  As an example, if the receiver is tuned to
10
```

```
> > Mhz, a signal of 30Mhz will also be received. Using Linear Technology
> > LTspice (which is a free spice type simulator) to simulate the detector,
> > the
> > 30Mhz signal is about 10db lower then the 10Mhz desired signal. Looking
> > for
> > 140db or better difference; have a long way to go. Possibly there is an
> > error in the simulation; but I think, unfortunately, it is correct.
After
> > all, the switch function is not linear. A Fourier analysis of the switch
> > pulse closely agrees with the detected result; the third harmonic is
about
> > 10db lower then fundamental. Does anyone have experience with this type
of
> > detector?
> > Thank You.
> >
> Personally, I would put that effort into the HPSDR project -- which
benefits
> all (open source) and expands your total education.
>
> http://hpsdr.org/
>

Checked out your link, while interesting this is not my project's direction.
The fun is designing the entire project from concept to the finished
product.




From 3369583961465471973
X-Google-Thread: fc2a5,7ea2dbb58cc894a3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!newsfeed.stanford.edu!
sn-xt-sjc-02!sn-xt-sjc-01!sn-post-sjc-02!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@Yahoo.Com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Software defined radio
Date: Mon, 15 Jan 2007 21:22:19 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12qoo871rv7hgda@corp.supernews.com>
References: <TJEph.371479$Fi1.104223@bgtnsc05-news.ops.worldnet.att.net>
<25udna8ARPKceDfYnZ2dnUVZ_hmtnZ2d@comcast.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8674
```

"w9gb" <spam_protect@arrl.net> wrote in message
news:25udna8ARPKceDfYnZ2dnUVZ_hmtnZ2d@comcast.com...
> Personally, I would put that effort into the HPSDR project -- which
> benefits all (open source) and expands your total education.

Could you compare HPSDR with GNURadio for us, by chance?

```
From 1145323864563277434
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a75g2000cwd.googlegroups.com!not-for-
mail
From: "NT0Z" <kirk@cloudnet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave UPDATE
Date: 16 Jan 2007 03:15:12 -0800
Organization: http://groups.google.com
Lines: 7
Message-ID: <1168946108.736138.58130@a75g2000cwd.googlegroups.com>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
   <1166031794.175793.239780@n67g2000cwd.googlegroups.com>
   <slrneo0lat.1b3.gsm@cable.mendelson.com>
   <gIqdnWuSo6F8RB3YnZ2dnUVZ8s6qnZ2d@pipex.net>
   <1168813493.411646.108020@a75g2000cwd.googlegroups.com>
   <1168856900.889905.192880@s34g2000cwa.googlegroups.com>
   <slrneqmvfg.4lb.gsm@cable.mendelson.com>
NNTP-Posting-Host: 68.115.93.143
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1168946119 9938 127.0.0.1 (16 Jan 2007 11:15:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 16 Jan 2007 11:15:19 +0000 (UTC)
In-Reply-To: <slrneqmvfg.4lb.gsm@cable.mendelson.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a75g2000cwd.googlegroups.com; posting-host=68.115.93.143;
   posting-account=HMV32AwAAAD3qWLCvxcnTptTo5V7rGHi
Xref: g2news2.google.com rec.radio.amateur.homebrew:8675
```

The particular Sony model I mentioned tunes in 9 or 10 kHz steps on the
AM BC band. It's obviously meant for use on either side of the
Atlantic... :) Wish I owned one!

--Kirk, NT0Z

From 7757395835840147987
X-Google-Thread: fc2a5,84eb0b2357b50a83
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns14feed!worldnet.att.net!199.45.49.37!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc03.POSTED!f4af025b!not-for-mail
From: "Norm Mann" <folder0735@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1b7oq2dtpjkf8fajjgbkmnjm7ngfis4e05@4ax.com>
Subject: Re: UPS Schematic
Lines: 14
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <a34rh.652$Hc5.198@trnddc03>
Date: Tue, 16 Jan 2007 13:04:06 GMT
NNTP-Posting-Host: 71.102.210.121
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc03 1168952646 71.102.210.121 (Tue, 16 Jan 2007 08:04:06 EST)
NNTP-Posting-Date: Tue, 16 Jan 2007 08:04:06 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8676

"WsW" <respond@use.net> wrote in message
news:1b7oq2dtpjkf8fajjgbkmnjm7ngfis4e05@4ax.com...
> Looking for schematics/plans for a Uninterruptible Power Supply

This is much too vague to give a specific answer. Are you looking for an UPS from a specific company? Do you intend to build one? What type of output do you need? What load will it drive? How long a time? Have you tried a search engine to find the info?

-NM

From 277005049915887145
X-Google-Thread: fc2a5,84eb0b2357b50a83
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews7.bellsouth.net.POSTED!d50ae390!not-for-mail
Message-ID: <45ACDE9F.D8892ACA@buddy.net>

```
From: Bud <buddy@buddy.net>
X-Mailer: Mozilla 4.79 [en] (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: UPS Schematic
References: <1b7oq2dtpjkf8fajjgbkmnjm7ngfis4e05@4ax.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 6
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
enggpaojkliedbjjdbdpiflmbcekedmfhojhikkbagflhcbonbhcnakhgjconibkogonijlacmebcjpkbo
aoncjdlbdmhgpdodkemllgbbnpdclbakngmmneimggmmdkhleolclkiboegjdhapeamkkgbhpbeoad
NNTP-Posting-Date: Tue, 16 Jan 2007 09:18:01 EST
Organization: BellSouth Internet Group
Date: Tue, 16 Jan 2007 09:18:07 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8677

hi,

if you are trying to repair one it is hard to get the schematics,
ups co. want to sell you new units and trade in your broken units.

we need more info.


From 1182313552652392566
X-Google-Thread: fc2a5,628c1c6a03500c29
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews4.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 8877's from storage - "cooking" time?
References: <R4mdnUHR8ZptzTTYnZ2dnUVZ_umlnZ2d@neonova.net>
<1168866735.017633.119410@s34g2000cwa.googlegroups.com>
In-Reply-To: <1168866735.017633.119410@s34g2000cwa.googlegroups.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 53
Message-ID: <averh.3094$bp4.1109@bignews4.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
npbhgpngjbkmjfegdbdpiflmbcekedmfhojhikkbagflhcboelkdamkadkdgecnicefdepfahhanihgdnk
ofajmmnlggepnnopiklepmbknoldgplakkedcbbdgabjilgfalcgiofamkgbmocnpdjnlfiihalnbd
```

NNTP-Posting-Date: Tue, 16 Jan 2007 19:56:38 EST
Organization: BellSouth Internet Service
Date: Tue, 16 Jan 2007 20:01:35 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8678

Denny wrote:
> Jim, I would suggest a bit more than a minute or two.. You may want to
> pop that question over on rec.radio.amateur.amps and get the group
> opinion... I would suggest a 24 hour filament preheat after long
> storage... There is no more effort in letting it cook 24 hours than
> for 3 minutes...
> I have no direct experience with the 8877 but I do speak 4cx800... The
> majority of the amp builders getter new tubes with filament heat only
> for up to 24 hours before applying HV.... One of the failings of hams
> is that we seem to think that turning on the filament is wearing out
> the tube... Whereas the broadcast industry turns the filaments on and
> leaves them on because they know what wears out the tubes is cycling
> the filament from cold to hot over and over...
>
> I just finished bringing a 3CX1200D7 back to full output with a
> controlled filament over voltage for 6.5 minutes with no HV applied...
>
> cheers ... denny / k8do
>
>
> Jim Barber wrote:
>> I have several Eimac 8877's I bought as tested new-equipment pulls
>> around 5 years ago. I tested them again myself at the time, then packed
>> them away.
>>
>> Here it is 5 years or so later. The question for the panel is how long
>> should I "cook" the filaments before putting plate voltage on?
>>
>> Thanks,
>>
>> Jim, N7CXI
>
It's also important to bring heaters/filaments of large tubes up to
power SLOWLY!. In the old days, they'd use a variac (with a large
knob!) and slowly bring the voltage up so the heater/filament wouldn't
be shocked by the sudden inrush of current. In a dual 4-400A amp I
built years ago I just put a large resistor in series with the primary
of the filament transformer and shorted it out with a relay after 15
seconds delay. (Used a transistor and an RC circuit to control the
relay). After the the filament was on full power another circuit on the
relay removed an interlock on the relay controlling the HV power supply.
There was also a resistor in series with the plate transformer that was
shorted out by a relay (the coil of that relay in parallel with the
primary of the plate transformer). This limited the inrush current to
the filter capacitors to protect them and the rectifier diodes.
There were TWO power switches, on for filament and one for plate, plate
power could NOT be applied until the filaments had full power.

4-400A's being directly heated, come up to power rather quickly.

As for the flash over in those ceramic metal tubes, maybe some trace
radioactive elements in the ceramic has something to do with this?
If you don't believe it, bring a Geiger counter near the tube!

```
From 4673542753377633027
X-Google-Thread: fc2a5,628c1c6a03500c29
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 17 Jan 2007 02:38:45 -0600
Message-ID: <dxAvGPKo0drFFAWY@ifwtech.co.uk>
Date: Wed, 17 Jan 2007 08:24:08 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 8877's from storage - "cooking" time?
References: <R4mdnUHR8ZptzTTYnZ2dnUVZ_umlnZ2d@neonova.net>
 <1168866735.017633.119410@s34g2000cwa.googlegroups.com>
 <averh.3094$bp4.1109@bignews4.bellsouth.net>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<5mwkzTBRO5sETFKkGhyHHc+YXH>)
Lines: 42
NNTP-Posting-Host: 82.153.11.126
X-Trace: sv3-
YHPRCY0r+0hpVgALq0O0LEwBXDk0sUpbwxJ2gvwfYAGTsIPPl0aRCv6fdfx96A0Q0bAHlLkyL5Z9tz+!/
FW0oDopkre4tLvfPFZwJCnw+gA8nUtbVsiytqXGOe2hfPpx9yFlAgvssYeOkEK477gX2VBVVg==
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8679
```

ken scharf wrote:
>
>As for the flash over in those ceramic metal tubes, maybe some trace
>radioactive elements in the ceramic has something to do with this?

No, it's just the result of very slow outgassing from the metal and ceramics.

To handle this problem, all vacuum tubes are constructed with some kind of 'getter', a chemically activated surface that combines with stray gas molecules and keeps the vacuum clean. In small glass tubes, the getter is the silvery metal film (usually barium) deposited on the glass, but such metals are too volatile for use in transmitting tubes.

The getter used in transmitting tubes is a metal such as zirconium or tantalum, which needs to be hot in order to function. In large glass tubes the main getter is typically the dull grey coating on the outside of the anode, which is intended to run very hot. In addition, there are often secondary getters in cooler locations such as the grid and heater/filament structures. However, the anode of a metal/ceramic tube is always quite cool, so the main getter has to be in the hottest place available, typically on top of the cathode post.

All this means that transmitting rubes need to be *used* in order to keep the vacuum clean. Tubes that haven't been used for a while may need to be fired up with heater/filament only, to give the getter a chance to function before high voltage is applied. Cooling is also required, of course. How long this takes will depend on the individual tube, but 24 hours is usually enough to reduce the risk of high-voltage flashover.

Just to be clear, a leaky seal is a completely different problem. Outgassing is typically worst with brand-new tubes, but will eventually settle down. In contrast, a leaky seal is continuous. Although the getter may be able to handle a very tiny leak for a while, the leak will eventually win.

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

```
From -6055243656532668225
X-Google-Thread: fc2a5,d99fcc944a536f09,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!38g2000cwa.googlegroups.com!not-for-mail
From: "Javier Anderson" <Javanderson@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: The ARRL goes Google Groups Twice
Date: 17 Jan 2007 07:07:43 -0800
Organization: http://groups.google.com
Lines: 16
Message-ID: <1169046463.684409.154290@38g2000cwa.googlegroups.com>
NNTP-Posting-Host: 166.109.0.185
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1169046480 19258 127.0.0.1 (17 Jan 2007 15:08:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 17 Jan 2007 15:08:00 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 38g2000cwa.googlegroups.com; posting-host=166.109.0.185;
   posting-account=8zIW8Q0AAAC700cCA5AGduousxo3Yhi2
Xref: g2news2.google.com rec.radio.amateur.homebrew:8680
```

To whom this may concern,

The ARRL has now entered a new facet for technology here on Google Groups. In fact it has entered it twice. The ARRL and The American Radio Relay League are just two more google groups which have popped up in the last several weeks which are both itching to gain members. The ARRL groups are both set for Amateur Radio members who wish to join in on the action with real pros on familiar terriotry. Memebership unlike the real thing is free on both counts and they provide the same services that the real ARRL provides. Keep in mind that they are both brand new but soon they will be as advanced as the real thing and maybe better.

73 and thnaks for listening,
Javier Anderson, KC2MFC

```
From -5187171881359440477
X-Google-Thread: fc2a5,177fd05bec360a92,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l53g2000cwa.googlegroups.com!not-for-
mail
From: "tladotse" <w4tki.kenn@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Easy to build low power meter
Date: 17 Jan 2007 07:53:45 -0800
Organization: http://groups.google.com
Lines: 12
Message-ID: <1169049225.440373.43140@l53g2000cwa.googlegroups.com>
NNTP-Posting-Host: 216.47.212.8
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1169049242 25932 127.0.0.1 (17 Jan 2007 15:54:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 17 Jan 2007 15:54:02 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l53g2000cwa.googlegroups.com; posting-host=216.47.212.8;
   posting-account=SwSeMg0AAAAKIOuXhEz6YttTlVeg-iEX
Xref: g2news2.google.com rec.radio.amateur.homebrew:8681
```

I want to build a power meter for the hf bands that has maybe three scales: something like 0 to 1 watt, 1 to 5 watts and 5 to 25 watts. I

had one I built for 1-5 watts one time and remember it was easy
measuring across a voltage divider resistance network. Can't find the
schematic rite now.
I enjoy working qrp and it would be a useful asset in the shack.
I also might want to add a circuit to it for attenuator since my rig
only goes down to 5 watts.
thanks and 73
W4TKI
Kennon

From -4302170414724350445
X-Google-Thread: fc2a5,d18ad3a9a53f9888,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.phx!newsfe07.phx.POSTED!53ab2750!not-for-mail
From: "Caveat Lector" <CL@nowhere.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FYI: Subscribers to this NG
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <Tpsrh.42314$uA2.21929@newsfe07.phx>
Date: Wed, 17 Jan 2007 08:46:45 -0800
NNTP-Posting-Host: 72.197.12.245
X-Complaints-To: admin@cox.net
X-Trace: newsfe07.phx 1169052403 72.197.12.245 (Wed, 17 Jan 2007 09:46:43 MST)
NNTP-Posting-Date: Wed, 17 Jan 2007 09:46:43 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:8682

According to
http://groups.google.com/group/rec.radio.amateur.boatanchors/related?lnk=rgam

About 456 Home Brewers

CL

From 3284735618901043267
X-Google-Thread: fc2a5,177fd05bec360a92
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.brightview.com!news.brightview.com.POSTED!not-for-mail

```
NNTP-Posting-Date: Wed, 17 Jan 2007 13:14:41 -0600
From: rrah@pencoys.org.uk (Mike W)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Easy to build low power meter
Date: Wed, 17 Jan 2007 19:14:36 GMT
Reply-To: rrah@pencoys.org.uk
Message-ID: <45ae7524.239627873@news.madasafish.com>
References: <1169049225.440373.43140@l53g2000cwa.googlegroups.com>
X-Newsreader: Forte Free Agent 1.21/32.243
Lines: 19
NNTP-Posting-Host: 80.189.89.158
X-Trace: sv3-h6eD4Na6vWRMHBxQw1RlFNDAU9Rt10phggX8tcu1Tzod3/hBdXFToazfWUs4dbvkXvK/
4BP9BDTMHsJ!ba8OqORdvgjg/WBygxIKSkRTMpntxp8ldVKizkIaJL/
4KBMJTCUR6OdkGH9e0BTlAuce53m4TS1U!T1XyHKlkdSxGNEENv91i6O8pYcElY2eREQ==
X-Complaints-To: abuse@brightview.com
X-DMCA-Complaints-To: abuse@brightview.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8683

On 17 Jan 2007 07:53:45 -0800, "tladotse" <w4tki.kenn@gmail.com>
wrote:

>I  want to build a power meter for the hf bands that has maybe three
>scales: something like 0 to 1 watt, 1 to 5 watts and 5 to 25 watts. I
>had one I built for 1-5 watts one time and remember it was easy
>measuring across a voltage divider resistance network. Can't find the
>schematic rite now.
>I enjoy working qrp and it would be a useful asset in the shack.
>I also might want to add a circuit to it for attenuator since my rig
>only goes down to 5 watts.
>thanks and 73
>W4TKI
>Kennon
>
do a google for the "stockton power meter" or "stockton swr meter". If
you can't find it then I'll send you a PDF of the article.
It should cost about $20 including meters...



From -6288649211209694497
X-Google-Thread: fc2a5,896f54650b032b92,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-xxxfer.readnews.com!textspool1.readnews.com!news-
out.readnews.com!postnews3.readnews.com!posts.news.usenetmonster.com!
nnrp0.asbnva.usenetmonster.com!not-for-mail
From: "JimL" <jimbethladd@aol.com>
```

Newsgroups: rec.radio.amateur.homebrew
Subject: FA 120/240V. 10 amp. Variac
Date: Wed, 17 Jan 2007 15:25:26 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Lines: 3
Message-ID: <45ae87bf$0$25995$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
NNTP-Posting-Host: e0f6002c.news.usenetmonster.com
X-Trace:
DXC=iDT09JMM6_7kRNnC3aNQM;fmBVYh0PF`67:fG3B6S`d3M10bX;c40R<MmS4]WCB968aONNdPIjL<<A
^YUOj0WC>7;HR4FJmLbB;T^`h<P6;QQ8B<Y5<dRJ4U5
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8684

Please see eBay 160075234427. Thanks, Jim.

From -8313780240805160566
X-Google-Thread: fc2a5,cbbf0eaa25478bff,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!newsfeed.freenet.de!
news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!
newspeer1-win.ntli.net!newsfe4-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "Gwendoline Biggadike" <pjpennington@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Teleprinter 7
Lines: 22
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <0Vwrh.85473$493.41648@newsfe4-gui.ntli.net>
Date: Wed, 17 Jan 2007 21:53:00 GMT
NNTP-Posting-Host: 80.4.58.86
X-Complaints-To: http://www.ntlworld.com/netreport
X-Trace: newsfe4-gui.ntli.net 1169070780 80.4.58.86 (Wed, 17 Jan 2007 21:53:00
GMT)
NNTP-Posting-Date: Wed, 17 Jan 2007 21:53:00 GMT
Organization: ntl Cablemodem News Service
Xref: g2news2.google.com rec.radio.amateur.homebrew:8685

Does anyone , preferably in the South East England still have a Creed
Teleprinter 7 in workable condition?
It does not need to have power unit etc.
I am doing voluntary work for a local Heritage Site and they would like a

teleprinter on show so that the young visitors can see how such a complicated mechanical device works.

pj.pennington@ntlworld.com

73 Pete
G4EGQ
(using my Gwen's email)

--

My normal email address is pj.pennington@ntlworld.com
If it appears that I have not received your email please send it to my alternative address pjpennington@ntlworld.com

From -2839331158443115274
X-Google-Thread: fc2a5,cbbf0eaa25478bff
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!news.glorb.com!hwmnpeer01.lga!news.highwinds-media.com!cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny02.POSTED!0da99462!not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <0Vwrh.85473$493.41648@newsfe4-gui.ntli.net>
Subject: Re: Teleprinter 7
Lines: 35
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <fvyrh.4352$dV1.2984@trndny02>
Date: Wed, 17 Jan 2007 23:42:03 GMT
NNTP-Posting-Host: 68.163.27.134
X-Complaints-To: abuse@verizon.net
X-Trace: trndny02 1169077323 68.163.27.134 (Wed, 17 Jan 2007 18:42:03 EST)
NNTP-Posting-Date: Wed, 17 Jan 2007 18:42:03 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8686

Pete,

Too bad you're on the other side of the pond. I have a WWII Model 19 composite set with tape punch & reader that's been sitting in my basement for years. I'd give it to someone who could come pick it up.

Joe

W3JDR

"Gwendoline Biggadike" <pjpennington@ntlworld.com> wrote in message
news:0Vwrh.85473$493.41648@newsfe4-gui.ntli.net...

> Does anyone , preferably in the South East England still have a Creed
> Teleprinter 7 in workable condition?
> It does not need to have power unit etc.
> I am doing voluntary work for a local Heritage Site and they would like a
> teleprinter on show so that the young visitors can see how such a
> complicated mechanical device works.
>
> pj.pennington@ntlworld.com
>
> 73 Pete
> G4EGQ
> (using my Gwen's email)
>
>
> --
>
>
> My normal email address is pj.pennington@ntlworld.com
> If it appears that I have not received your email please send it to my
> alternative address pjpennington@ntlworld.com
>

```
From -3507507202024094717
X-Google-Thread: fc2a5,1e9b7c68ff0d5e76,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!indigo.octanews.net!news-
out.octanews.net!mauve.octanews.net!198.186.190.95.MISMATCH!news-out.readnews.com!
postnews3.readnews.com!posts.news.usenetmonster.com!
nnrp3.asbnva.usenetmonster.com!not-for-mail
From: "JimL" <jimbethladd@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: Kenwood VFO-520
Date: Wed, 17 Jan 2007 18:46:11 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Lines: 3
Message-ID: <45aeb4e1$0$9735$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
NNTP-Posting-Host: 31c65592.news.usenetmonster.com
X-Trace: DXC=]jN]3C29C:DN@o@mWl6?
<Hm>XX`Id5knH`IohDjb_78LB6PlZkKe>CIS@nCFQNo27DV]UnmY7I`FNGdkLWN=Z0@EfQR_D6DInZEA>@
```

```
4f9Q;[]C;CZAf5G1PGN
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8687
```

Please see eBay no. 160075295726. Tnx, Jim.

```
From -1286164628834209481
X-Google-Thread: fc2a5,a8cc406be44a122c,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!11g2000cwr.googlegroups.com!not-for-mail
From: "llobdelljr" <llobdelljr@afo.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Low Noise VFO
Date: 17 Jan 2007 17:23:38 -0800
Organization: http://groups.google.com
Lines: 7
Message-ID: <1169083418.423858.144080@11g2000cwr.googlegroups.com>
NNTP-Posting-Host: 68.14.231.68
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1169083430 5117 127.0.0.1 (18 Jan 2007 01:23:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 18 Jan 2007 01:23:50 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 11g2000cwr.googlegroups.com; posting-host=68.14.231.68;
   posting-account=pkIXzAwAAABwV__oggyxejeyUJCAJYlb
Xref: g2news2.google.com rec.radio.amateur.homebrew:8688
```

I was surfing the net and found a reference to an unusual low phase noise LC VFO that uses two inductors. Unfortunately it seems I forgot to bookmark the site. Can anyone help?

Thanks,
Larry Lobdell Jr.

```
From 6895222989568257394
X-Google-Thread: fc2a5,dd74b72dddcdcfdb
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a75g2000cwd.googlegroups.com!not-for-mail
From: "on30ng" <on30ng@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
```

```
Subject: Re: Ideal Ham Receiver (cont.)
Date: 17 Jan 2007 20:04:59 -0800
Organization: http://groups.google.com
Lines: 22
Message-ID: <1169093099.074617.317560@a75g2000cwd.googlegroups.com>
References: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
   <7I6dnVhp6umBhjjYnZ2dnUVZ_sSmnZ2d@comcast.com>
   <548qh.210$bp4.70@bignews4.bellsouth.net>
   <eob3q1$3rj$1@theodyn.ncf.ca>
   <qs8qh.213$bp4.33@bignews4.bellsouth.net>
NNTP-Posting-Host: 74.135.146.232
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1169093106 32385 127.0.0.1 (18 Jan 2007 04:05:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 18 Jan 2007 04:05:06 +0000 (UTC)
In-Reply-To: <qs8qh.213$bp4.33@bignews4.bellsouth.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.9)
Gecko/20061206 Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a75g2000cwd.googlegroups.com; posting-host=74.135.146.232;
   posting-account=cHaz4A0AAABSvgBXdvZeKRmzV_BI715_
Xref: g2news2.google.com rec.radio.amateur.homebrew:8689
```

Well, I think I'm just going to go with a modern, portable SWL receiver for now. There are several very interesting models that are quite cheap. New prices are about $150 for the newest and best of them.

I appreciate all the input and encouragement. I built my first 'Manhatten' constructed circuit this week - a VFO for the BITX20 transceiver. The good news it oscillates, the bad news is not at the right frequency or the right spread but I've got an online buddy helping me out and if nothing, I got off of dead center. I'm just excited that it worked at all - AND - that I understand most of it and how it works. I'm pretty sure I will understand it all before I'm finished.

If you're intersted the radios I'm looking at are the Eton E5, Sony ICF-SW7600G & GR, Degen/Kaito DE-1103 and a couple of other oddballs. Hopefully I can snag one off of eBay.

Thanks again.

Dan KB9JLO
<><

```
From 6873142847779456551
X-Google-Thread: fc2a5,ee76219ddc463c09,start
X-Google-Thread: f64c6,ee76219ddc463c09,start
X-Google-Attributes: gidfc2a5,gidf64c6,public
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: "Richard" <nearlynews_email@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew,uk.radio.amateur
Subject: White Rose Receiver by G3TDZ
Date: Thu, 18 Jan 2007 11:07:05 -0000
Lines: 13
Message-ID: <5192nbF1j3o4aU1@mid.individual.net>
Mime-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Trace: individual.net GsjLROjih0QAGRUVrZlebQdokcZ8ADimuUX3PcMGec2LluWdEf
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Xref: g2news2.google.com rec.radio.amateur.homebrew:8690 uk.radio.amateur:64451
```

Hi. Ages ago I started to build this radio and did complete it 99%, but never used it. I'm now going to add the finishing touches and use it. At the time I remember feeling unimpressed with it. Just sounded horrible I thought. Anyway, if anyone made this radio or is currently using it, can you please get in touch. I think talking to someone who made this Rx might be helpful. TIA.

My email:

hobby_electronicsGETRIDOFTHIS@ntlworld.com

Please reomove GETRIDOFTHIS.

```
From -5812722770060969776
X-Google-Thread: fc2a5,17bb3114859ebc09,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!newsfeed01.sul.t-
online.de!t-online.de!news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!
news.highwinds-media.com!newspeer1-win.ntli.net!newsfe7-gui.ntli.net.POSTED!
53ab2750!not-for-mail
From: "Russell King" <rusking@tesco.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Advance CT-472 circuit schematic required.
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
```

```
X-RFC2646: Format=Flowed; Original
Message-ID: <6kJrh.68530$n36.37143@newsfe7-gui.ntli.net>
Date: Thu, 18 Jan 2007 12:01:06 GMT
NNTP-Posting-Host: 80.2.195.123
X-Complaints-To: http://www.ntlworld.com/netreport
X-Trace: newsfe7-gui.ntli.net 1169121666 80.2.195.123 (Thu, 18 Jan 2007 12:01:06
GMT)
NNTP-Posting-Date: Thu, 18 Jan 2007 12:01:06 GMT
Organization: ntl Cablemodem News Service
Xref: g2news2.google.com rec.radio.amateur.homebrew:8691
```

I wonder if anyone of you have a circuit of this Transistor tester
which my friend has
and could send a scan to rus_kinjatyahoodotcodotuk
for me to pass on
or know where I could find one.
Thanks.

Russell
G4VXD

```
From 6810580285128937173
X-Google-Thread: fc2a5,177fd05bec360a92
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!51g2000cwl.googlegroups.com!not-for-
mail
From: "tladotse" <w4tki.kenn@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Easy to build low power meter
Date: 18 Jan 2007 06:04:21 -0800
Organization: http://groups.google.com
Lines: 10
Message-ID: <1169129061.375819.262100@51g2000cwl.googlegroups.com>
References: <1169049225.440373.43140@l53g2000cwa.googlegroups.com>
   <45ae7524.239627873@news.madasafish.com>
NNTP-Posting-Host: 216.47.212.233
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1169129076 18279 127.0.0.1 (18 Jan 2007 14:04:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 18 Jan 2007 14:04:36 +0000 (UTC)
In-Reply-To: <45ae7524.239627873@news.madasafish.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 51g2000cwl.googlegroups.com; posting-host=216.47.212.233;
   posting-account=SwSeMg0AAAAKIOuXhEz6YttTlVeg-iEX
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:8692

Thanks much. Will do.
73
W4TKI
Kennon
Mike W wrote:
> On 17 Jan 2007 07:53:45 -0800, "tladotse" <w4tki.kenn@gmail.com>
> wrote:
>
> >I want to build a power meter for the hf bands that has maybe three

From 6005495514096226303
X-Google-Thread: fc2a5,a8cc406be44a122c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe08.lga.POSTED!53ab2750!not-for-mail
From: ricknj10@hotmail.com (Rick)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Low Noise VFO
Reply-To: ricknj10@hotmail.com
Message-ID: <45af8a1e.9724828@news.optonline.net>
References: <1169083418.423858.144080@11g2000cwr.googlegroups.com>
X-Newsreader: Forte Free Agent 1.21/32.243
Lines: 14
X-Complaints-To: abuse@cv.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
adnpoonaeilogjoikannfilpcpbbolnmkdmfkoaacjhbgpadapnppbkdjmafifihfahjmghpafgneaamep
gfnecgfinnkookdcnpcobklkkdfihfphamimjidaikhdehhgindeflifgphkdl
NNTP-Posting-Date: Thu, 18 Jan 2007 08:27:17 MST
Organization: Optimum Online
Date: Thu, 18 Jan 2007 15:27:22 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8693

>I was surfing the net and found a reference to an unusual low phase
>noise LC VFO that uses two inductors. Unfortunately it seems I forgot
>to bookmark the site. Can anyone help?

Larry, Have you tried looking at your history in your browser? It
probably remembers where you were. If you recognize the URL from the
list if you see it, just click on it and away you go.
If you are using Internet Explorer click on the little clock with the
green arrow on it to get to your history list.

Rick K2XT

```
From 402672084103007827
X-Google-Thread: 10b159,9d69b59ec6c06abc,start
X-Google-Thread: fc2a5,9d69b59ec6c06abc,start
X-Google-Thread: 10dde4,9d69b59ec6c06abc,start
X-Google-Thread: 108a4b,9d69b59ec6c06abc,start
X-Google-Thread: f6805,9d69b59ec6c06abc,start
X-Google-Attributes: gid10b159,gidfc2a5,gid10dde4,gid108a4b,gidf6805,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.50.MISMATCH!not-for-mail
Message-Id: <m07001823141759@4ax.com>
Subject: MI5 Persecution: Dirk Gently on the Toronto Case (328)
Newsgroups:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp
Followup-To:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 18 Jan 2007 22:19:55 GMT
Lines: 298
NNTP-Posting-Date: 18 Jan 2007 22:19:55 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com microsoft.public.es.windowsxp:94697
rec.radio.amateur.homebrew:8694 microsoft.public.it.winserver:38484
fr.rec.photo.materiel:10598 microsoft.public.fr.windowsxp:96395
```

Dirk was on the West Coast when he got the call. An old friend at the Toronto police department thought he would like to fly up and take a look at a homicide which had occurred the previous evening. He decided to skip the last day at the World Holistics conference and take the next plane out of San Francisco.

The flight was bad; Dirk had been hit on the back of the head by the Newspaper trolley, the drinks trolley, the dinner trolley and now the gift trolley. When the hostesses weren�t trying to tear his arm off they pestered him to stop leaning into the aisle - ignoring the fact that the guy next to him was taking up one and a half seats. Air Canada used to be the flight which was so good you just didn�t wanna get off - on this occasion Dirk would be glad to see the back of the plane and the over sized alternative comedian wedged into the window seat.

After breathing in a couple of lungfulls of crisp Canadian air Dirk took a taxi into town. There was a small group of demonstrators outside the MacDonalds and the taxi driver insisted on stopping on the opposite side of the street. �Don�t Eat Meat� the placards read and the demonstrators chanted. A couple of policemen where stopping the crowd entering the restaurant itself - one held up his arm and challenged Dirk. A wave of the fax he had been sent and the policeman pushed open the door.

There were few customers in the restaurant. Not surprising really with a demonstration going on outside, half the dining area roped off with tape and a dead body seated at one of the tables. �Mr Gently sir� the officer in charge called out as he peeled one end of the tape off a column �We were told not to touch anything til� you got here�.

The body of the man slumped awkwardly in a chair. Then even a dead body would start getting uncomfortable in a MacDonalds chair after twenty minutes - and this one had been there for at least eighteen hours. Two back legs and the tail of a cat hung out of the man�s gaping mouth. Dirk turned to the officer, �I suppose you are going to tell me this is the darndest thing you ever saw?�

�Ain�t this the darnd...�. The officer seemed annoyed that Dirk had second guessed him. �We�re removing the body in a few minutes, so if you can get through as quick as possible�

�Many people eat cats in fast food restaurants?� Dirk asked and without waiting for an answer leant over the table to pick up an untouched burger. �And what�s this?� he asked waving it in front of the officers face.

�It�s a Vedgie Burger� The waitress, who was cleaning one of the adjacent tables, shouted across. She walked over to Dirk. �We started doing them because of that lot out there� she nodded towards the protesters who were pressing there faces against the windows �They�re called Linda McCartney Vedgie burgers - ever heard of them?�

Dirk suddenly felt faint, perhaps a combination of hunger and jet lag. �This is deja vu all over again� he thought to himself. He glanced at policemen - at the badge on his shoulder �OPD� but this wasn�t Ontario this was Toronto. OPD - Officially Pronounced Dead. It dawned on Dirk what was happening, he knew what he would see if he looked out of the window. Sure enough, there it was, the Volkswagen Beetle parked across the road - number plate 28IF - 28 IF Paul McCartney had lived. And amongst the lyrics of the song blaring out into the restaurant he could pick out the words �I buried Paul�. Now it was though Dirk was viewing the whole scene though a TV screen. This was conspiracy. Not -a- conspiracy, or -the- conspiracy, but just plain conspiracy.

�You look faint - are you OK mister? The waitress asked.

Dirk shook his head �Probably a bit hungry� Then to economise on dialogue took out a pack of cigarettes and held it out towards the girl. She was about to take one but Dirk snatched the pack away, held it up to his mouth and drew out two cigarettes. He lit both then passed one of them to the girl. It was the closest he had come to a sexual encounter in three months.

�Want a Burger?� the waitress asked.

Dirk looked down at the Vedgie Burger on the table. �No thanks - just a plate of fries�

The waitress walked away and Dirk looked around the room. Apart from a family seated in the far corner there was only one other person in the restaurant - and he wasn�t eating. The guy was about mid twenties and had straggling, shoulder length hair. On the table in front of him were lots of pieces of paper cut into squares. Every so often he would pick up a camcorder and pan it around the room and then, when he was finished, speak into a microphone which was attached to a tape recorder. Dirk walked over to where the man was sitting.

The small pieces of paper had paragraphs of text written on them and were stuck to the top of table with blobs of mustard. Lines had been drawn, some solid some dotted, on the table top with a marker pen. The lines ran from one piece of paper to another.

�What are the lines for?� Dirk asked, realising straight away that �What the hell are you doing?� would be more appropriate.

�You see� The man replied nervously �The dotted lines are weak links and the solid lines are strong links. The dotted lines are things which are happening in the rest of the world and the solid lines are things which are happening to me. Now you see I draw over a dotted line, replacing it with a solid line, when I can link something back to me. Like this� The pen squeaked over the Formica and before Dirk could interrupt the man added. �You see I lost my short term memory and, as a consequence have a very short attention span. I write down, record and film everything then put it all together later�

�So� Dirk interrupted. �You filmed what happened here?�

�Yes, yes, it�s here on this tape� The man pushed the cassette across the table. On the label the words �Grassy Knoll� had been crossed through and replaced with �MacDonalds�.

Suddenly the man sprung from his seat. Dirk turned and saw that the body was being removed on a stretcher. As it passed the man picked a small object off the edge of the stretcher itself. �This is important� he said, laying a blood stained bullet on one of the small pieces of paper on the table.

Suddenly the room was filled with a deafening throbbing sound as a Black Helicopter landed in the street outside. Two men in United Nations uniforms got out and collected the stretcher. Back at the table the long haired man was replacing all the dotted lines with solid ones. Dirk panicked and began to walk backwards at some speed. Barging through the swing doors he stumbled into the kitchen, tripped and felt himself sink slowly into a large vat.

�The guys fallen into the batter� Dick heard someone shout before he sunk below the surface. He came to sitting in a chair with the batter solidifying all over his body. He surveyed the room through two eye-holes someone had cut. Suddenly the chair on which he was sitting was picked up carried through the restaurant and out of the building. As the chair was being lifted and put into the back of a van, Dirk caught a glimpse of the waitress following him. �Your fries mister, your plate o...�.

The doors of the van shut and Dirk tried desperately to steady himself as it sped across town. Eventually the doors flew open and Dirk was flung into the road at which point the solidified batter shattered and set him free. Standing up he found himself outside the international departures terminal of Toronto airport.

In the departure lounge Dirk had time to reflect on the day�s events. He had got caught up in the conspiracy theories and the haphazard welding together of pieces of irrelevant information. It was time to catch the person who was operating the bizarre cognitive engine which appeared in front of him like a fairground mirror, distorting any flaw it could find in his own, fragile, map of the real world.

Dirk leant into the aisle of the plane as it took off for London. The oversized person next to him swung his arms violently as he complained about every thing from the supper in a plastic tray to the state of British politics. With a shaven head and a badly fitting suit the man looked as though he could have worked behind the reception desk of the Kremlin. However when he spoke he did so in a Liverpudlian accent. �Me I blame the Con-serv-a-tive government, me. The Tour-rees. That-cher. Me. They need a good kicking� He jerked his feet forward and struck the seat in front with his Doc Martins. �With these. Me Doc Martins. Doctor Martin�s, Doctor Martin�s, Doctor Martin�s Booots!� The phrase was now being sung over and over again as the man writhed in his seat and clicked his fingers.

Dirk looked down at the boots and thought of the reaction most people used to deal with the paranoids at the end of the wire. A nice quick kick. �Oi nutter - get some therapy�. This is the easy way out and perhaps the safest. After all there you are sat, alone, in front of the screen. No body language between you some paranoid. No way of telling if he really is some gibbering psycho. Look at it too long and you be drawn in. Fall into the tangled database of weird links with him. Who knows he may be watching you, reassembling and linking your experiences with his. How sure are you of you own cognitive threads. After all cognition is only a bug fix for a neurological system which was designed in a hurry - it�s abused by everyone from politicians to advertisers. If people really can convince each other that a bottle of washing up liquid is as exciting as an orgasm using just television God knows what they can do with a computer. Better to avoid the risk. A swift kick. After all if you�re Homophobic you put the boot in because you are scared of any ambiguity in your own sexuality - why not be Nutterphobic as well.

Although Dirk would have liked to devoted time to tracking the culprit down he decided to let it rest. The Internet changed over the next twenty odd years. A lot of the people who used it went out and got lives. And those who already had lives burnt them away. The number of users had dwindled after someone had invented a C++ program, with truth as a variable, to deal handle politics and government. Dirk had already retired from finding old ladies cats with the help of obscure science when he got another call from Toronto.

It was 4th March 2025 when he booked onto the Air Canada flight from Heathrow. The silver haired woman in the seat next to him painted bright red lipstick around her mouth. �Of course it was no surprise to be offered the job after Claire Raynor retired� she sneered� After all I used to be a psychiatric nurse... Now if Blokes had periods they would understand...�

By chance the taxi ride to Toronto mental hospital took him past the MacDonalds - where the whole thing had started. Of course it was barely recognisable having become a Church Of Scientology Vedgie Bar. Police in riot gear kept the two sets of demonstrators apart. Dirk didn�t really know what to expect when he got to the hospital. The girl at the reception desk directed him to a row of chairs in a wide well lit corridor. There was a strong smell of disinfectant, the furniture and the carpets were immaculately clean and behind the rows of teak veneer doors the �nutters� were all safely locked away. For some reason Dirk started thinking about CompuServe forums.

A tall blond woman in a white coat approached. �Mr Gentle, I assume�

�Yes� Dirk replied shaking her by the hand. �You�re the nurse who...�

�Doctor� She interrupted, �Doctor Killfile� She led Dirk across the corridor towards one of the doors then stopped with her hand resting on the handle. �Now you know about this person don�t you?� and after Dirk nodded she continued �Don�t tell him anything about yourself - don�t let him get into you head. If he does he�ll screw it up�

The door opened to reveal a frail man sitting in from of a TV screen. He had a keyboard on his lap and next to the television was a computer screen. Dirk glanced at the walls of the room and remembered that his settee at home need upholstering. The nurse left the room and the man looked up �So you come to my daughters wedding and ask me to kill a man� he said in a dry cackling voice. �Look� he continued, pointing at the screen, �I know that man. They�re talking about me now - listen�. The man stared at Dirk. �What�s your name? Are you one of my friends from the Internet? - Are the lambs still screaming Dirk?�

Dirk, at first recoiled in horror, then felt a sense of anti climax. So this is what they hyped up to superstar status on the back of their own fears of madness. Dirk was reminded of the film �A day on The Beach� where a submarine had set off to search a post nuclear World to track down a signal coming from a remote military base - only to find it was being sent by a Coke bottle half balanced on a Morse tapper. Outside the room the nurse waited for him. Because his nicotine craving had returned - and to avoid an awkward piece of dialogue - Dirk turned to her and asked . �Patch?�

Dirk took two nicotine patches from his wallet the first of which he stuck onto the inside of his arm. Stepping closer to Doctor Killfile he opened her white coat and slid his hand into the opening at the front of her dress. He pressed the patch onto her leg as close to the top of her inner thigh as he dare. She took a deep breath and then slowly breathed out. �What Bogart could have done with these things� Dirk thought to himself.

�Is he crazy?� Dirk asked tilting his head back to towards the door.

�Who knows� Doctor Killfile replied �We let him type away. He sees something on the TV in the morning and it keeps him busy all day. What he types doesn�t go anywhere it just stays on a mainframe in the basement. It can be read by anyone else in the building but that�s it. We got them all in here conspiracy theorists, racists, nationalists. They�ve created a world within a world really...� Her voice trailed away and she stared down the corridor for a while then added �So long are two things are different neither will come to be in the other and so become at once both one and two.�

Dirk gave her a puzzled look �You mean their brains are
fried?�

�Fried?� Killfile smiled at Dirk �No that was Plato�. Then the
smile fell from her face. �You must remember, mister, plate
o...�

328

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Posted via a free Usenet account from http://www.teranews.com

From 1880116071740784492
X-Google-Thread: 10b159,435d1c0292a82f51,start
X-Google-Thread: fc2a5,435d1c0292a82f51,start
X-Google-Thread: 10dde4,435d1c0292a82f51,start
X-Google-Thread: 108a4b,435d1c0292a82f51,start
X-Google-Thread: f6805,435d1c0292a82f51,start
X-Google-Attributes: gid10b159,gidfc2a5,gid10dde4,gid108a4b,gidf6805,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!news2.google.com!news.maxwell.syr.edu!
nntpserver.com!zeus.nntpserver.com!10.1.1.50.MISMATCH!not-for-mail
Message-Id: <m07001900010659@4ax.com>
Subject: MI5 Persecution: Hotchkies FAQ (1229)
Newsgroups:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp
Followup-To:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 18 Jan 2007 23:06:43 GMT
Lines: 180
NNTP-Posting-Date: 18 Jan 2007 23:06:43 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com microsoft.public.es.windowsxp:94714
rec.radio.amateur.homebrew:8695 microsoft.public.it.winserver:38485
fr.rec.photo.materiel:10599 microsoft.public.fr.windowsxp:96400

From: iain@XXXXX.demon.co.uk (Iain L M Hotchkies)
Newsgroups: uk.misc,uk.legal,uk.politics,uk.media,soc.culture.british
Subject: Corley FAQ (v0.1)
Reply-To: iain@XXXXX.demon.co.uk
Date: Sat May 4 19:30:34 1996

Mike Corley FAQ
version 0.1
first edition 5th May 1996

last updated 5th May 1996
Iain L M Hotchkies iain@XXXXX.demon.co.uk

Mike Corley is a 'net personality' who has been active on the following newsgroups (uk.misc,uk.legal,uk.politics,uk.media,soc.culture.british) since....? Well, at least as far back as the summer of 1995.

He posts long tracts, the tone of which approximates that which one might expect from a reasonably intelligent paranoid schizophrenic.

No details are known of Mike's 'real' personal life or background. Once would presume that he came from a reasonable family and was reasonably well educated before the first symptoms of schizophrenia began.

Schizophrenia: Clinical features
(from the Oxford Textbook of Psychiatry, 2nd Edition)

The acute syndrome

Some of the main clinical features are illustrated by a short description of a patient. A previously healthy 20-year-old male student had been behaving in an increasingly odd way. At times he appeared angry and told his friends that he was being persecuted; at other times he was seen to be laughing to himself for no apparent reason. For several months he had seemed increasingly preoccupied with his own thoughts. His academic work had deteriorated. When interviewed, he was restless and awkward. He described hearing voices commenting on his actions and abusing him. He said he believed that the police had conspired with his university teachers to harm his brain with poisonous gases and take away his thoughts. He also believed that other people could read his thoughts.

This case history illustrates the following common features of acute schizophrenia: prominent persecutory ideas with accompanying hallucinations; gradual social withdrawal and impaired performance at work; and the odd idea that other people can read one�s thoughts.

In appearance and behaviour some patients with acute schizophrenia are entirely normal. Others seem awkward in their social behaviour, preoccupied and withdrawn, or otherwise odd. Some patients smile or laugh without obvious reason. Some appear to be constantly perplexed. Some are restless and noisy, or show sudden and unexpected changes of behaviour. Others retire from company, spending a long time in their rooms, perhaps lying immobile on the bed apparently preoccupied in thought.

The speech often reflects an underlying thought disorder. In the early stages, there is vagueness in the patient�s talk that makes it difficult to grasp his meaning. Some patients have difficulty in dealing with abstract ideas (a phenomenon called concrete thinking). Other patients become preoccupied with vague pseudoscientific or mystical ideas.

When the disturbance is more severe two characteristic kinds of abnormality may occur. Disorders of the stream of thought include pressure of thought, poverty of thought, and thought blocking. Thought withdrawal (the conviction that one�s thoughts have been taken away) is sometimes classified as a disorder of the stream of thought, but it is more usefully considered as a form of delusion.

Loosening of association denotes a lack of connection between ideas. This may be detected in illogical thinking (knight�s move�) or talking past the point (Vorbeireden). In the severest form of loosening the structure and coherence of thinking is lost, so that utterances are jumbled (word salad or verbigeration). Some patients use ordinary words in unusual ways (paraphrasias or metonyms), and a few coin new words (neologisms).

Abnormalities of mood are common, and of three main kinds. First, there may be sustained abnormalities of mood such as anxiety, depression, irritability, or euphoria. Secondly, there may be blunting of affect, sometimes known as flattening of affect. Essentially this is sustained emotional indifference or diminution of emotional response. Thirdly, there is incongruity of affect. Here the emotion is not necessarily diminished, but it is not in keeping with the mood that would ordinarily be expected. For example, a patient may laugh when told about a bereavement. This third abnormality is often said to be highly characteristic of schizophrenia, but different interviewers often disagree about its presence.

Auditory hallucinations are among the most frequent symptoms. They may take the form of noises, music, single words, brief phrases, or whole conversations. They may be unobtrusive or so severe as to cause great distress. Some voices seem to give commands to the patient. Some patients hear their own thoughts apparently spoken out loud either as they think them (Gedankenlautwerden) or immediately afterwards (echo de la pensee). Some voices seem to discuss the patient in the third person. Others comment on his actions. As described later, these last three symptoms have particular diagnostic value.

Visual hallucinations are less frequent and usually occur with other kinds of hallucination. Tactile, olfactory, gustatory, and somatic hallucinations are reported by some patients; they are often interpreted in a delusional way, for example hallucinatory sensations in the lower abdomen are attributed to unwanted sexual interference by a persecutor.

Delusions are characteristic. Primary delusions are infrequent, and difficult to identify with certainty. Delusions may originate against a background of so-called primary delusional mood - Wahnstimmung. Persecutory delusions are common, but not specific to schizophrenia. Less common but of greater diagnostic value are delusions of reference and of control, and delusions about the possession of thought. The latter are delusions that thoughts are being inserted into or withdrawn from one�s mind, or broadcast� to other people.

In acute schizophrenia orientation is normal. Impairment of attention and concentration is common, and may produce apparent difficulties in remembering, though memory is not impaired. So-called experiences result from illness, but usually ascribe them to the malevolent actions of other people. This lack of insight is often accompanied by unwillingness to accept treatment.

Schizophrenic patients do not necessarily experience all these symptoms. The clinical picture is variable, as described later in this chapter. The table below lists the most frequent symptoms found in one large survey.

The most frequent symptoms of acute schizophrenia (World Health Organization 1973)

Symptom	Frequency (%)
Lack of insight	97
Auditory hallucinations	74
Ideas of reference	70
Suspiciousness	66
Flatness of affect	66
Voices speaking to the patient	65
Delusional mood	64
Delusions of persecution	64
Thought alienation	52
Thoughts spoken aloud	50

Various theories exist about Mike Corley:

1) he exists and is disturbed and has net access and for reasons uncertain spams a selected number of newsgroups on a regular basis - if you are reading this FAQ then you will almost certainly have seen one of his posts.

2) Mike Corley is a 'virtual schizophrenic'. Mike displays the relevant features so well that some people think he may be a construction of one or more people with intimate knowledge of mental illness and the mentally ill. Perhaps they wish to monitor the effects on the internet of the posts of a schizophrenic. Moving into X-Files territory a bit, ourselves, here.

Mike's posts attract different responses:

1) cruel, humourous, dismissive posts from those who've seen his posts many times and have become generally irritated by his behaviour while accepting that he probably has a mental illness.

2) posts from Corley-newbies - those who have come across relateviely

few of Mike's posts. These may be humorouous or disbelieving.

3) posts from people who have been sucked in (for one reason or
another) into Mike's Wild & Wacky World (TM)

That's enough for now.

comments, suggestions, additions, corrections to iain@XXXXX.demon.co.uk

1229

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Posted via a free Usenet account from http://www.teranews.com

From -1052894273742316344
X-Google-Thread: fc2a5,628c1c6a03500c29
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.neonova.net!news.neonova.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 18 Jan 2007 18:28:01 -0600
Date: Thu, 18 Jan 2007 16:27:54 -0800
From: Jim Barber <jim@sonicfocus.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 8877's from storage - "cooking" time?
References: <R4mdnUHR8ZptzTTYnZ2dnUVZ_umlnZ2d@neonova.net>
<1168866735.017633.119410@s34g2000cwa.googlegroups.com>
<averh.3094$bp4.1109@bignews4.bellsouth.net> <dxAvGPKo0drFFAWY@ifwtech.co.uk>
In-Reply-To: <dxAvGPKo0drFFAWY@ifwtech.co.uk>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <sLOdnXZLj5gMjS3YnZ2dnUVZ_qemnZ2d@neonova.net>
Lines: 57
NNTP-Posting-Host: 12.144.251.150
X-Trace: sv3-J20u1KlV9iIdSkFEqhiPFL4sPJCaR7oCQVY/
VjZufdAp2Tt6OPyboW9EYrqt+mSSrWcXHR5XjDQVr62!3Aziro/6TDxrOnFJTcmAi39E3l45gmrL4/
xkA2+g7zIM1Auzpkwwmcm/LS5FfgdYswNz8sPV+uR2!+G3EMhyO76LMLQ==
X-Complaints-To: abuse@neonova.net
X-DMCA-Complaints-To: abuse@neonova.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8696

Thanks, Ian. That's a very clear and concise description of the issue.

This may be overkill, but since it costs nothing I'm thinking of four six-hour cycles, allowing the tube to cool to room temp or so between cycles.

Since you're here, Ian, I'll slip in an unrelated question. What do you think about using regulated DC for the heater on an 8877 ? I ask because I'm thinking of using a couple of spare controller I/O pins and a home-made R2R network to ramp up a series-pass regulator as part of the overall controller startup.

On the other hand, I suppose a relay and appropriate power resistors would be simpler... ;-)

Thanks,
Jim, N7CXI

Ian White GM3SEK wrote:
> ken scharf wrote:
>>
>> As for the flash over in those ceramic metal tubes, maybe some trace
>> radioactive elements in the ceramic has something to do with this?
>
> No, it's just the result of very slow outgassing from the metal and
> ceramics.
>
> To handle this problem, all vacuum tubes are constructed with some kind
> of 'getter', a chemically activated surface that combines with stray gas
> molecules and keeps the vacuum clean. In small glass tubes, the getter
> is the silvery metal film (usually barium) deposited on the glass, but
> such metals are too volatile for use in transmitting tubes.
>
> The getter used in transmitting tubes is a metal such as zirconium or
> tantalum, which needs to be hot in order to function. In large glass
> tubes the main getter is typically the dull grey coating on the outside
> of the anode, which is intended to run very hot. In addition, there are
> often secondary getters in cooler locations such as the grid and
> heater/filament structures. However, the anode of a metal/ceramic tube
> is always quite cool, so the main getter has to be in the hottest place
> available, typically on top of the cathode post.
>
> All this means that transmitting rubes need to be *used* in order to
> keep the vacuum clean. Tubes that haven't been used for a while may need
> to be fired up with heater/filament only, to give the getter a chance to
> function before high voltage is applied. Cooling is also required, of
> course. How long this takes will depend on the individual tube, but 24
> hours is usually enough to reduce the risk of high-voltage flashover.
>
>
> Just to be clear, a leaky seal is a completely different problem.
> Outgassing is typically worst with brand-new tubes, but will eventually
> settle down. In contrast, a leaky seal is continuous. Although the
> getter may be able to handle a very tiny leak for a while, the leak will
> eventually win.

>
>

```
From -2395851009861445
X-Google-Thread: 10b159,2a428cd597df37d9,start
X-Google-Thread: fc2a5,2a428cd597df37d9,start
X-Google-Thread: 10dde4,2a428cd597df37d9,start
X-Google-Thread: 108a4b,2a428cd597df37d9,start
X-Google-Thread: f6805,2a428cd597df37d9,start
X-Google-Attributes: gid10b159,gidfc2a5,gid10dde4,gid108a4b,gidf6805,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!nntpserver.com!
zeus.nntpserver.com!10.1.1.50.MISMATCH!not-for-mail
Message-Id: <m07001900462146@4ax.com>
Subject: MI5 Persecution: Website Index (2129)
Newsgroups:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp
Followup-To:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 18 Jan 2007 23:51:59 GMT
Lines: 39
NNTP-Posting-Date: 18 Jan 2007 23:51:59 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com microsoft.public.es.windowsxp:94716
rec.radio.amateur.homebrew:8697 microsoft.public.it.winserver:38487
fr.rec.photo.materiel:10600 microsoft.public.fr.windowsxp:96403
```

Persecuted by the Security Service

Since June 1990 the British security service MI5 has waged a campaign of harassment against a UK citizen,
through the broadcast and print media, verbal abuse at work, and molestation in public and during travel.

Despite widespread knowledge of the campaign in the UK and discussion of its characteristics on Usenet for
over three years, it continues today both in Britain and North America. Its cause and basis is xenophobia
on the basis of the genetic accident of mental illness, coupled with discrimination against an inferior
"foreigner" whom they condemn as "not up to British Standards".

If this is your first visit to this site, please read the FAQ first. Feel free to contact the author with
any questions.

Frequently Asked Questions article outlines the parameters of the persecution. Who

is involved, and why?
What technical and social means do they employ? What response have I made, and why has their campaign yet
to be exposed?

The UK Security Services which are believed to be behind it all. Domestic security is the province of MI5
while the secret intelligence service MI6 combats foes (and its former employees) on foreign shores.

Usenet archive chronicling the (sometimes very enthusiastic) exchanges which have taken place on UK-local
newsgroups since May 1995. Make your mark on the continuing discussion!

Believe it or not, a few items of evidence have been recorded. Although none of them is particularly
conclusive, by presenting them I hope to explain what I understand from some television and radio programmes.
Most of the "clinching" material was aired in 1990-92, and no recordings exist now, which is quite unfortunate.

My complaints to the BBC and MI5 (via the Security Service Tribunal and Interception of Communications Tribunal),
and their response to my challenges, are recorded here. Basically they deny everything, they have put their
denials (mostly - Buerk and Lewis refused) in writing, and I don't believe them. Part of the website also
documents media coverage of my campaign to expose the persecution.

Faxed articles to, and responses from British organisations including Parliament and UK media. Over 24,259 faxes
in all were sent from 1998 to 2000. Their aim was to boot discussion of the persecution into the public domain,
and that aim was not accomplished.

2129

--
Posted via a free Usenet account from http://www.teranews.com

From -4292564981412004779
X-Google-Thread: 10b159,be1d2de6073b83b5,start
X-Google-Thread: fc2a5,be1d2de6073b83b5,start
X-Google-Thread: 10dde4,be1d2de6073b83b5,start
X-Google-Thread: 108a4b,be1d2de6073b83b5,start
X-Google-Thread: f6805,be1d2de6073b83b5,start
X-Google-Attributes: gid10b159,gidfc2a5,gid10dde4,gid108a4b,gidf6805,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!news.glorb.com!
nntpserver.com!zeus.nntpserver.com!10.1.1.50.MISMATCH!not-for-mail

```
Message-Id: <m07001901313548@4ax.com>
Subject: MI5 Persecution: �20,000 Reward (3028)
Newsgroups:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp
Followup-To:
microsoft.public.es.windowsxp,rec.radio.amateur.homebrew,microsoft.public.it.winse
rver,fr.rec.photo.materiel,microsoft.public.fr.windowsxp,uk.misc
From: MI5Victim@mi5.gov.uk
Date: 19 Jan 2007 00:37:12 GMT
Lines: 12
NNTP-Posting-Date: 19 Jan 2007 00:37:12 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com microsoft.public.es.windowsxp:94721
rec.radio.amateur.homebrew:8698 microsoft.public.it.winserver:38488
fr.rec.photo.materiel:10601 microsoft.public.fr.windowsxp:96404


20,000 Reward Offered to Expose the Conspiracy

I am making a pledge for information directly leading to the exposing of the "BBC
Newscaster
Conspiracy". The exposing would specifically need to lead to a legally binding
admission from Martyn Lewis
or Michael Buerk of the BBC they they were watching me through the TV set.

I would be happy (delighted, in fact) to pay GBP 20,000 sterling in reward for the
above admission.
--------------------------------------------------------------------------------

3028


--
Posted via a free Usenet account from http://www.teranews.com




From 2129310485391815643
X-Google-Thread: fc2a5,f3d1d9fb0d099f87,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s34g2000cwa.googlegroups.com!not-for-
mail
From: "rile" <aleksandar.ristovski@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Where to buy large area copper clad boards in Canada?
Date: 18 Jan 2007 17:37:22 -0800
Organization: http://groups.google.com
Lines: 5
Message-ID: <1169170642.235265.208930@s34g2000cwa.googlegroups.com>
NNTP-Posting-Host: 74.105.221.130
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1169170655 19303 127.0.0.1 (19 Jan 2007 01:37:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 19 Jan 2007 01:37:35 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s34g2000cwa.googlegroups.com; posting-host=74.105.221.130;
   posting-account=mCq0sg0AAADxZNW4clbYU_dBBcOZF18d
Xref: g2news2.google.com rec.radio.amateur.homebrew:8699
```

I saw a simillar question for buying copper clad board in UK, so I
thought someone might have an answer for Canada...

Thanks!

```
From -5409474180985289855
X-Google-Thread: fc2a5,628c1c6a03500c29
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews7.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 8877's from storage - "cooking" time?
References: <R4mdnUHR8ZptzTTYnZ2dnUVZ_umlnZ2d@neonova.net>
<1168866735.017633.119410@s34g2000cwa.googlegroups.com>
<averh.3094$bp4.1109@bignews4.bellsouth.net> <dxAvGPKo0drFFAWY@ifwtech.co.uk>
In-Reply-To: <dxAvGPKo0drFFAWY@ifwtech.co.uk>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 41
Message-ID: <BoVrh.4449$Oe2.3293@bignews7.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
enggpaojkliedbjjdbdpiflmbcekedmfhojhikkbagflhcbodmnppiicjbpepledpogbhjggebmadkfckb
mlgenmfgdogjdnhfbjgiadjgdkipchakngmmneimggmmdkppfhdhhfcjbfhaadegpdpbocmdfhlmhm
NNTP-Posting-Date: Thu, 18 Jan 2007 20:45:05 EST
Organization: BellSouth Internet Group
Date: Thu, 18 Jan 2007 20:45:14 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8700
```

Ian White GM3SEK wrote:

> ken scharf wrote:

```
>>
>> As for the flash over in those ceramic metal tubes, maybe some trace
>> radioactive elements in the ceramic has something to do with this?
>
> No, it's just the result of very slow outgassing from the metal and
> ceramics.
>
> To handle this problem, all vacuum tubes are constructed with some kind
> of 'getter', a chemically activated surface that combines with stray gas
> molecules and keeps the vacuum clean. In small glass tubes, the getter
> is the silvery metal film (usually barium) deposited on the glass, but
> such metals are too volatile for use in transmitting tubes.
>
> The getter used in transmitting tubes is a metal such as zirconium or
> tantalum, which needs to be hot in order to function. In large glass
> tubes the main getter is typically the dull grey coating on the outside
> of the anode, which is intended to run very hot. In addition, there are
> often secondary getters in cooler locations such as the grid and
> heater/filament structures. However, the anode of a metal/ceramic tube
> is always quite cool, so the main getter has to be in the hottest place
> available, typically on top of the cathode post.
>
> All this means that transmitting rubes need to be *used* in order to
> keep the vacuum clean. Tubes that haven't been used for a while may need
> to be fired up with heater/filament only, to give the getter a chance to
> function before high voltage is applied. Cooling is also required, of
> course. How long this takes will depend on the individual tube, but 24
> hours is usually enough to reduce the risk of high-voltage flashover.
>
>
> Just to be clear, a leaky seal is a completely different problem.
> Outgassing is typically worst with brand-new tubes, but will eventually
> settle down. In contrast, a leaky seal is continuous. Although the
> getter may be able to handle a very tiny leak for a while, the leak will
> eventually win.
>
>
So if you use your linear often you only need to heat treat the tubes
once, on installation.


From 5429857902589234403
X-Google-Thread: fc2a5,f3d1d9fb0d099f87
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s34g2000cwa.googlegroups.com!not-for-
mail
From: "laura halliday" <marsgal42@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where to buy large area copper clad boards in Canada?
Date: 18 Jan 2007 20:53:43 -0800
Organization: http://groups.google.com
Lines: 14
```

```
Message-ID: <1169182423.733076.147070@s34g2000cwa.googlegroups.com>
References: <1169170642.235265.208930@s34g2000cwa.googlegroups.com>
NNTP-Posting-Host: 207.6.198.34
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1169182429 20318 127.0.0.1 (19 Jan 2007 04:53:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 19 Jan 2007 04:53:49 +0000 (UTC)
In-Reply-To: <1169170642.235265.208930@s34g2000cwa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7) Gecko/
20040618,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s34g2000cwa.googlegroups.com; posting-host=207.6.198.34;
   posting-account=hajlLgwAAABnEIYWRhxcLRahLr8hJUY4
Xref: g2news2.google.com rec.radio.amateur.homebrew:8701

rile wrote:
> I saw a simillar question for buying copper clad board in UK, so I
> thought someone might have an answer for Canada...
>
> Thanks!

Define "large". Which part of Canada?

In Toronto I'd start with Active Surplus. In Vancouver, RP.

Laura Halliday VE7LDH     "That's a totally illegal,
Grid: CN89mg                   madcap scheme. I like it!"
ICBM: 49 16.05 N 122 56.92 W        - H. Pearce



From -4124867557788247920
X-Google-Thread: fc2a5,f3d1d9fb0d099f87
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 18 Jan 2007 23:17:22 -0600
Date: Fri, 19 Jan 2007 06:17:34 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla Thunderbird 1.0.2 (X11/20050322)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where to buy large area copper clad boards in Canada?
References: <1169170642.235265.208930@s34g2000cwa.googlegroups.com>
<1169182423.733076.147070@s34g2000cwa.googlegroups.com>
In-Reply-To: <1169182423.733076.147070@s34g2000cwa.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

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Message-ID: <1vidnbE0k5j-yS3YRVnytwA@pipex.net>
Lines: 24
NNTP-Posting-Host: 71.107.26.158
X-Trace: sv3-DId2tIviR8GkIMLzXO7NgmFpiQygAxKV0Uvlc5peD1bWm3QpQm1TnPkodI++/
k6KTR7JnjtwOhZGdat!kLwcqOITtnYbSPKfZjmBMyhdAGPCYu0aiqyT0V4HBFmrcwa/
KQN+vI5QiBP2MPbMW4FcN/SnfE7y!RaZruW4rXPOYog==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8702

>>I saw a simillar question for buying copper clad board in UK, so I
>>thought someone might have an answer for Canada...
>>
>>Thanks!
>
>
> Define "large". Which part of Canada?
>
> In Toronto I'd start with Active Surplus. In Vancouver, RP.
>
> Laura Halliday VE7LDH     "That's a totally illegal,
> Grid: CN89mg                    madcap scheme. I like it!"
> ICBM: 49 16.05 N 122 56.92 W        - H. Pearce
>
===========================
On some if not most  european continental amateur radio fleamarkets
cut-offs up to 1x1 ft are often sold by weight.
I have a healthy stock enabling me to also homebrew  enclosures.

Is this material not available from surplus traders frequenting North
American hamfests & fleamarkets ?


Frank    KN6WH / GM0CSZ


From -973330076521336854
X-Google-Thread: fc2a5,f3d1d9fb0d099f87
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!news.kjsl.com!
ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where to buy large area copper clad boards in Canada?
Date: 19 Jan 2007 05:30:06 GMT
Organization: The National Capital FreeNet
Lines: 59
Message-ID: <eopl0u$nar$1@theodyn.ncf.ca>
```

References: <1169170642.235265.208930@s34g2000cwa.googlegroups.com>
<1169182423.733076.147070@s34g2000cwa.googlegroups.com> <1vidnbE0k5j-
yS3YRVnytwA@pipex.net>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1169184606 23899 134.117.136.48 (19 Jan 2007 05:30:06 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 19 Jan 2007 05:30:06 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8703

Highland Ham (abcgm0csz.kn6whxyz@dsl.pipex.com) writes:

```
>>>I saw a simillar question for buying copper clad board in UK, so I
>>>thought someone might have an answer for Canada...
>>>
>>>Thanks!
>>
>>
>> Define "large". Which part of Canada?
>>
>> In Toronto I'd start with Active Surplus. In Vancouver, RP.
>>
>> Laura Halliday VE7LDH     "That's a totally illegal,
>> Grid: CN89mg                    madcap scheme. I like it!"
>> ICBM: 49 16.05 N 122 56.92 W        - H. Pearce
>>
> ===========================
> On some if not most  european continental amateur radio fleamarkets
> cut-offs up to 1x1 ft are often sold by weight.
> I have a healthy stock enabling me to also homebrew  enclosures.
>
> Is this material not available from surplus traders frequenting North
> American hamfests & fleamarkets ?
>
>
> Frank    KN6WH / GM0CSZ
```

That's the sort of answer I would have given, but I wondered if it was a trick question.

"Large area" suggests something really big, but if someone isn't familiar with what is available, then "large" might mean something more than a few inches.

In 35 years, I've never bought blank circuit board new. Starting with wretched board that cracked when you cut it and the copper came off when you soldered to it (but it was "surplus" and cheap at Etco Electronics back then), and then buying it at hamfests, and then the remaining old school electronic store here in Montreal (Addison Electronics), blank circuit board of all kinds of thickness and sizes and single or double sided has always been readily available.

You're right, it can usually be had so cheap that it is a great thing to use for enclosures. Unlike plastic, it's can provide shielding, but it's also a lot easier to work than equivalent thickness metal. I've been known to strip off the copper and use the bare board when I need to make up some mechanical gadget, it being so easy to work with.

Addison often has board that has been drilled for some production work, but not etched (or even had resist applied), which is even cheaper. I can cut around it for small pieces, or if I'm just using the board for soldering to, the holes aren't even noticed.

For the original poster, the Radio Amateurs of Canada have a website at http://www.rac.ca and they keep a list of upcoming hamfests, so it's easy to watch for one coming up nearby. Though, it's really the off season and I doubt there will be many until the spring.

Michael VE2BVW

```
From -5564949093869039587
X-Google-Thread: fc2a5,628c1c6a03500c29
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 19 Jan 2007 02:33:21 -0600
Message-ID: <NjZ8$LI7FIsFFAda@ifwtech.co.uk>
Date: Fri, 19 Jan 2007 08:29:47 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 8877's from storage - "cooking" time?
References: <R4mdnUHR8ZptzTTYnZ2dnUVZ_umlnZ2d@neonova.net>
 <1168866735.017633.119410@s34g2000cwa.googlegroups.com>
 <averh.3094$bp4.1109@bignews4.bellsouth.net> <dxAvGPKo0drFFAWY@ifwtech.co.uk>
 <sLOdnXZLj5gMjS3YnZ2dnUVZ_qemnZ2d@neonova.net>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<5mwkzTBRO5sETFKkGhyHHc+YXH>)
Lines: 72
NNTP-Posting-Host: 82.153.116.128
X-Trace: sv3-ZPrcrOM9FoAzQ3+bOTtwKUp+lSS4ipDu5TE2qCaBlVDihF6B7MMRf4dU+qGqLDeHSDUs/
8P4zoqrDYH!
JKyyvpSr6AMNFAdD0bRwqOmN1dQI8hZz0zcQ+VHYuqz0E5V3lUx2QLUH7q89EZTjadlvSD+Ls2M=
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8704
```

Jim Barber wrote:

>Thanks, Ian. That's a very clear and concise description of the issue.
>
>This may be overkill, but since it costs nothing I'm thinking of four six-hour cycles, allowing the tube to cool to room temp or so between cycles.
>

What would be the reason for dividing the 24 hours into four parts (bearing in mind that the 24h is already little more than a guess)? Also note that the tube must be cooled anyway, to avoid overheating of the base seal. 5V at 10.5A is a lot of heat input, and all of it must be removed somehow.

>Since you're here, Ian, I'll slip in an unrelated question. What do you think about using regulated DC for the heater on an 8877 ? I ask because I'm thinking of using a couple of spare controller I/O pins and a home-made R2R network to ramp up a series-pass regulator as part of the overall controller startup.
>
>On the other hand, I suppose a relay and appropriate power resistors would be simpler... ;-)
>

There are two separate issues there: the need for a regulated heater supply; and the need for a slow ramped startup.

The need for a regulated heater supply depends on the regulation of your mains voltage. Eimac specify +/- 5%, so if your mains regulation is worse than that, a separately regulated supply could be worthwhile. Mostly you need to prevent the heater voltage dropping too low, because electron emission from a chilled cathode may not be able to deal with the peak anode current.

If you ever plan to use the amplifier from a Field Day generator, then the answer changes to a definite "yes". Otherwise you can get a nasty scenario where you switch to TX, the increased demand pulls the generator voltage down, and the heater voltage along with it... and then you're trying to pull peak anode current from a chilled cathode. With two or three stations sharing the same generator, there will frequently be a "double low" or "triple low" when stations are transmitting at the same time. You can't do much about the effects on anode voltages in this FD situation, but you can prevent unnecessary stress on the cathodes by regulating the heater voltages.

As it happens, the 8877 has a 5.0V heater, and low-cost 5V switch-mode supplies are very readily available. A PC power supply would do, but is much larger than needed for an 8877 (10.5A). Nominal 5V power supplies can generally be modified for other voltages in the 5-6V region by jimmying the master voltage divider. Switching noise should not be an issue if you choose a supply that is shielded, and filtered at both input and output.

But this raises an issue related to your second question. It is not normally necessary to avoid prevent inrush current surges with *indirectly* heated tubes such as the 8877... BUT... a voltage-regulated heater supply MUST be modified to prevent it from driving a very large current into the low resistance of a cold heater at startup. I haven't tried this personally, but some people have created a ramped startup by simply adding a large electrolytic capacitor across the right half of the master voltage divider (you can check this using a 6V light bulb).

By the way, I learned a lot of this stuff by reading the mail on the AMPS list over the years (http://lists.contesting.com/mailman/listinfo/Amps). There are also searchable archives.

--

73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

```
From -820439679715500285
X-Google-Thread: fc2a5,f3d1d9fb0d099f87
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!51g2000cwl.googlegroups.com!not-for-
mail
From: "rile" <aleksandar.ristovski@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where to buy large area copper clad boards in Canada?
Date: 19 Jan 2007 06:18:36 -0800
Organization: http://groups.google.com
Lines: 71
Message-ID: <1169216316.854304.170480@51g2000cwl.googlegroups.com>
References: <1169170642.235265.208930@s34g2000cwa.googlegroups.com>
   <1169182423.733076.147070@s34g2000cwa.googlegroups.com>
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NNTP-Posting-Host: 209.217.94.72
Mime-Version: 1.0
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X-Trace: posting.google.com 1169216328 5521 127.0.0.1 (19 Jan 2007 14:18:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 19 Jan 2007 14:18:48 +0000 (UTC)
In-Reply-To: <eopl0u$nar$1@theodyn.ncf.ca>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
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   posting-account=mCq0sg0AAADxZNW4clbYU_dBBcOZF18d
Xref: g2news2.google.com rec.radio.amateur.homebrew:8705
```

ok, I was not precise. I am an amateur. What I am looking for is
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When I say large, 12"x12" is large enough, even smaller. I think the
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I used to buy (in Eorope) large sheets (by weight, i.e. cheap) and then
cut the sizes I wanted. (where large is defined as approx 1m x 1m).
Here in Canada, I could not google up anything similar.

p.s. I am in Ottawa, ON

Thank you!

```
On Jan 19, 12:30 am, e...@FreeNet.Carleton.CA (Michael Black) wrote:
> Highland Ham (abcgm0csz.kn6wh...@dsl.pipex.com) writes:
> >>>I saw a simillar question for buying copper clad board in UK, so I
> >>>thought someone might have an answer for Canada...
>
> >>>Thanks!
>
> >> Define "large". Which part of Canada?
>
> >> In Toronto I'd start with Active Surplus. In Vancouver, RP.
>
> >> Laura Halliday VE7LDH     "That's a totally illegal,
> >> Grid: CN89mg                    madcap scheme. I like it!"
> >> ICBM: 49 16.05 N 122 56.92 W        - H. Pearce
>
> > ===========================
> > On some if not most  european continental amateur radio fleamarkets
> > cut-offs up to 1x1 ft are often sold by weight.
> > I have a healthy stock enabling me to also homebrew  enclosures.
>
> > Is this material not available from surplus traders frequenting North
> > American hamfests & fleamarkets ?
>
> > Frank    KN6WH / GM0CSZThat's the sort of answer I would have given, but I
wondered if it
> was a trick question.
>
> "Large area" suggests something really big, but if someone isn't
> familiar with what is available, then "large" might mean something
> more than a few inches.
>
> In 35 years, I've never bought blank circuit board new.  Starting
> with wretched board that cracked when you cut it and the copper came
> off when you soldered to it (but it was "surplus" and cheap at
> Etco Electronics back then), and then buying it at hamfests, and
> then the remaining old school electronic store here in Montreal (Addison
> Electronics), blank circuit board of all kinds of thickness and sizes
> and single or double sided has always been readily available.
```

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> You're right, it can usually be had so cheap that it is a great thing
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> easy to watch for one coming up nearby. Though, it's really the off
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>
>   Michael VE2BVW

From 8653634804915612835
X-Google-Thread: fc2a5,f3d1d9fb0d099f87
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.magma.ca!news.magma.ca.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 19 Jan 2007 08:43:11 -0600
Date: Fri, 19 Jan 2007 09:43:14 -0500
From: FrankW <fworm@norpak.ca>
Reply-To: fworm@mxznorpak.ca
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.4) Gecko/20030624
Netscape/7.1 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where to buy large area copper clad boards in Canada?
References: <1169170642.235265.208930@s34g2000cwa.googlegroups.com>
<1169182423.733076.147070@s34g2000cwa.googlegroups.com>   <1vidnbE0k5j-
yS3YRVnytwA@pipex.net>   <eopl0u$nar$1@theodyn.ncf.ca>
<1169216316.854304.170480@51g2000cwl.googlegroups.com>
In-Reply-To: <1169216316.854304.170480@51g2000cwl.googlegroups.com>
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Content-Transfer-Encoding: 7bit
Message-ID: <B8qdnXr5nIqdRC3YnZ2dnUVZ_qSrnZ2d@magma.ca>
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K+RzjUarNanqBUNmsIrS6cCibMi3RjPdHYTCr!369pR1SQ
X-Complaints-To: abuse@magma.ca
X-DMCA-Complaints-To: abuse@magma.ca

```
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8706

Cohen's on Merival had a bunch real cheap.
I'd check it out and while your there check
out Computer Recyclers on McFarland they might have some too.

rile wrote:
> ok, I was not precise. I am an amateur. What I am looking for is
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>
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>>
>> Michael VE2BVW
>
>

From -5721627289311053458
X-Google-Thread: fc2a5,f3d1d9fb0d099f87
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe04.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1169170642.235265.208930@s34g2000cwa.googlegroups.com> <1169182423.733076.147070@s34g2000cwa.googlegroups.com>   <1vidnbE0k5j-yS3YRVnytwA@pipex.net>   <eopl0u$nar$1@theodyn.ncf.ca> <1169216316.854304.170480@51g2000cwl.googlegroups.com>
Subject: Re: Where to buy large area copper clad boards in Canada?
Lines: 23

X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <iU4sh.10$Ou1.9@newsfe04.lga>
X-Trace:
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NNTP-Posting-Date: Fri, 19 Jan 2007 07:49:50 MST
Date: Fri, 19 Jan 2007 09:49:47 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8707

"rile" <aleksandar.ristovski@gmail.com> wrote in message
news:1169216316.854304.170480@51g2000cwl.googlegroups.com...
> ok, I was not precise. I am an amateur. What I am looking for is
> getting copper board for less than what digikey is selling.

Digikey's prices are good on a lot of things, copperclad isn't one of them. Almost anyplace would be cheaper. If you don't have decent hamfests up there, you can find plenty on the other side of the border.

I generally pick up most of mine at the Findlay, Ohio fest, a bit of a hike for you, and probably not a large enough fest to make it worth the trip. I go every other year and a two year supply generally costs me around twenty bucks.

Dayton is worth the trip, and if you are a builder, then the QRP conference FDIM is well worth the trip all by itself. For copperclad, though, you need to be quick at Dayton. Even though there is an amazing amount of stuff there, the decent deals on copperclad are often all gone by the middle of the day Friday.

..

From 79490503690747035
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X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m58g2000cwm.googlegroups.com!not-for-mail
From: "llobdelljr" <llobdelljr@afo.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Low Noise VFO
Date: 19 Jan 2007 10:55:28 -0800
Organization: http://groups.google.com
Lines: 21
Message-ID: <1169232928.407205.314460@m58g2000cwm.googlegroups.com>
References: <1169083418.423858.144080@11g2000cwr.googlegroups.com>
<45af8a1e.9724828@news.optonline.net>

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In-Reply-To: <45af8a1e.9724828@news.optonline.net>
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m58g2000cwm.googlegroups.com; posting-host=68.14.231.68;
   posting-account=pkIXzAwAAABwV__oggyxejeyUJCAJYlb
Xref: g2news2.google.com rec.radio.amateur.homebrew:8708

Rick wrote:
> >I was surfing the net and found a reference to an unusual low phase
> >noise LC VFO that uses two inductors. Unfortunately it seems I forgot
> >to bookmark the site. Can anyone help?
>
>
> Larry, Have you tried looking at your history in your browser? It
> probably remembers where you were. If you recognize the URL from the
> list if you see it, just click on it and away you go.
> If you are using Internet Explorer click on the little clock with the
> green arrow on it to get to your history list.
>
> Rick K2XT

Unfortunately I was having issues with IE so I ran Norton Clean Sweep
last weekend. It solved my problems with IE, but wiped out all the
info in the IE History folder.
Oh well...
Larry

From 2658763671691928814
X-Google-Thread: fc2a5,f3d1d9fb0d099f87
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q2g2000cwa.googlegroups.com!not-for-mail
From: "Lefty" <llah@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where to buy large area copper clad boards in Canada?
Date: 19 Jan 2007 14:33:03 -0800
Organization: http://groups.google.com
Lines: 8
Message-ID: <1169245983.223960.286760@q2g2000cwa.googlegroups.com>
References: <1169170642.235265.208930@s34g2000cwa.googlegroups.com>
   <1169182423.733076.147070@s34g2000cwa.googlegroups.com>

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   <eopl0u$nar$1@theodyn.ncf.ca>
   <1169216316.854304.170480@51g2000cwl.googlegroups.com>
   <iU4sh.10$Ou1.9@newsfe04.lga>
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Mime-Version: 1.0
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NNTP-Posting-Date: Fri, 19 Jan 2007 22:33:16 +0000 (UTC)
In-Reply-To: <iU4sh.10$Ou1.9@newsfe04.lga>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; YPC
3.0.0; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q2g2000cwa.googlegroups.com; posting-host=67.121.121.2;
   posting-account=07osvQ0AAAAtEgnqa-OJGGh1Fjp5-TfI
Xref: g2news2.google.com rec.radio.amateur.homebrew:8709
```

On the subject of copper clad what is the best way to cut it into the sizes one need? I would assume using it for constructing boxes would be pretty time consuming using hacksaw and files. Short of a full size bench saw is there anyother lower cost/ smaller size electric saw that would work well with CC ?

Thanks Larry

```
From 1162806594797746755
X-Google-Thread: fc2a5,f3d1d9fb0d099f87
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe05.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1169170642.235265.208930@s34g2000cwa.googlegroups.com>
<1169182423.733076.147070@s34g2000cwa.googlegroups.com>   <1vidnbE0k5j-
yS3YRVnytwA@pipex.net>   <eopl0u$nar$1@theodyn.ncf.ca>
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<iU4sh.10$Ou1.9@newsfe04.lga>
<1169245983.223960.286760@q2g2000cwa.googlegroups.com>
Subject: Re: Where to buy large area copper clad boards in Canada?
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <Dlesh.86$CS2.40@newsfe05.lga>
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NNTP-Posting-Date: Fri, 19 Jan 2007 18:35:31 MST
Date: Fri, 19 Jan 2007 20:35:27 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8710

A bench shear is a wonderful thing for cutting copperclad. I have a relatively inexpensive small brake and shear from Northern Industrial Supply that also comes in handy for making boxes. It is a little small for some things, but I just plain don't have the space for a full size model. Even fairly large shears aren't all that expensive if you have the space.

..

"Lefty" <llah@sbcglobal.net> wrote in message
news:1169245983.223960.286760@q2g2000cwa.googlegroups.com...
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From 2018621175972725579
X-Google-Thread: fc2a5,13d27c4db97b58,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s34g2000cwa.googlegroups.com!not-for-mail
From: "vijay" <vijayec07@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Remote System for handle FM Radio
Date: 19 Jan 2007 19:30:28 -0800
Organization: http://groups.google.com
Lines: 4
Message-ID: <1169263828.483338.126560@s34g2000cwa.googlegroups.com>
NNTP-Posting-Host: 59.92.89.127
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1169263841 10426 127.0.0.1 (20 Jan 2007 03:30:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 20 Jan 2007 03:30:41 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7) Gecko/20040803 Firefox/0.9.3,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s34g2000cwa.googlegroups.com; posting-host=59.92.89.127;

```
   posting-account=Z97j1Q0AAAD7e4SXZyAyZrQHtRheynYs
Xref: g2news2.google.com rec.radio.amateur.homebrew:8711
```

i have to start a project for control the FM radio by Remote Control,
i want some instruction about this project, if u know any
information,plz help to me..

```
From -7060491814906629969
X-Google-Thread: fc2a5,decbb4c16304641,start
X-Google-Thread: 108122,decbb4c16304641,start
X-Google-Attributes: gidfc2a5,gid108122,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l53g2000cwa.googlegroups.com!not-for-
mail
From: ka9s3@comcast.net
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: FT-1000D internal coax plug
Date: 19 Jan 2007 21:08:23 -0800
Organization: http://groups.google.com
Lines: 28
Message-ID: <1169269703.441226.143100@l53g2000cwa.googlegroups.com>
NNTP-Posting-Host: 67.173.24.161
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1169269714 7062 127.0.0.1 (20 Jan 2007 05:08:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 20 Jan 2007 05:08:34 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l53g2000cwa.googlegroups.com; posting-host=67.173.24.161;
   posting-account=gJ80Qg0AAACxK715j_ktAW6ExM5sGXKj
Xref: g2news2.google.com rec.radio.amateur.homebrew:8712
rec.radio.amateur.equipment:7908
```

I want to make a modification to my FT-1000D that involves bringing the QSK switched receive coax lead to the back panel (adding a RCA phono jack). I want to unplug the inter-board coax cable that runs from J7208 (on the LPF unit) to J1005 (on the RF unit) and leave the original coax in place. I want to make my own cable that runs from J7208 to the new RCA jack on the back panel. I could just cut the original coax and use it, but I want the option to back out of this modification if I don't like it.

I have coax cable I can use. I need the tiny coax plug that goes on the end of the cable. The plug is a crimp-on style and very small. It is keyed and only fits into the circuit board jack in one orientation. The circuit board jack (which I don't need) sticks up off of the board at a 45-degree angle.

I thought I would just order a spare cable from YAESU and use it for my modification. I contacted YAESU. They don't have a part number for the cable. They would have to build one from scratch at the factory in Japan and were unwilling to do this.

I have been searching catalogs but not finding the plug I need to be compatible with the jack on the LPF board.

Does anyone know what type of connectors these are and where I can get some?

Thanks - Jeff - KA9S

```
From -3274182799644874995
X-Google-Thread: fc2a5,f3d1d9fb0d099f87
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 20 Jan 2007 01:10:03 -0600
Date: Sat, 20 Jan 2007 08:10:15 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla Thunderbird 1.0.2 (X11/20050322)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where to buy large area copper clad boards in Canada?
References: <1169170642.235265.208930@s34g2000cwa.googlegroups.com>
<1169182423.733076.147070@s34g2000cwa.googlegroups.com>   <1vidnbE0k5j-
yS3YRVnytwA@pipex.net>   <eopl0u$nar$1@theodyn.ncf.ca>
<1169216316.854304.170480@51g2000cwl.googlegroups.com>
<iU4sh.10$Ou1.9@newsfe04.lga>
<1169245983.223960.286760@q2g2000cwa.googlegroups.com>
In-Reply-To: <1169245983.223960.286760@q2g2000cwa.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <VM2dnZ-5HfzRXSzYnZ2dnUVZ8smonZ2d@pipex.net>
Lines: 11
NNTP-Posting-Host: 71.107.26.158
X-Trace: sv3-xrtSCqJPbzjDiC+85sGs/PpuTk+FeZtwdt+/
UAAnMejcGfzgUo+yQEb7iqKruPSs4TKpXERELqhoddZ!
nnYU2I448xqKywO25uvLbAZllRsM5+2BSWCowFU0UXQEpq48j2kfK3BTm6VzVEAqydTYM/s8ib1Q!
9hCUttyalsTScEIZNu4wYJIFQQ==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8713
```

> On the subject of copper clad what is the best way to cut it into the
> sizes one need? I would assume using it for constructing boxes would be
> pretty time consuming using hacksaw and files. Short of a full size
> bench saw is there anyother lower cost/ smaller size electric saw that
> would work well with CC ?

=====================================
To cut fibreglass or phenolic copperclad boards I use a carpet knife
(repaceable Stanley type) After carefully scoring (deeply) along a steel
ruler it breaks very neatly . Finish with a file or amaril paper .

Frank   KN6WH / GM0CSZ   temporarily in Torrance CA

From -6277243858816165726
X-Google-Thread: fc2a5,decbb4c16304641
X-Google-Thread: 108122,decbb4c16304641
X-Google-Attributes: gidfc2a5,gid108122,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc05.POSTED!d89a2db8!not-for-mail
From: "Dale Parfitt" <par@parelectronics.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.equipment
References: <1169269703.441226.143100@l53g2000cwa.googlegroups.com>
Subject: Re: FT-1000D internal coax plug
Lines: 39
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <Trqsh.451$JB.189@trnddc05>
Date: Sat, 20 Jan 2007 15:21:23 GMT
NNTP-Posting-Host: 63.19.182.173
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc05 1169306483 63.19.182.173 (Sat, 20 Jan 2007 10:21:23 EST)
NNTP-Posting-Date: Sat, 20 Jan 2007 10:21:23 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8714
rec.radio.amateur.equipment:7911

<ka9s3@comcast.net> wrote in message
news:1169269703.441226.143100@l53g2000cwa.googlegroups.com...
>I want to make a modification to my FT-1000D that involves bringing the
> QSK switched receive coax lead to the back panel (adding a RCA phono
> jack). I want to unplug the inter-board coax cable that runs from J7208
> (on the LPF unit) to J1005 (on the RF unit) and leave the original coax
> in place. I want to make my own cable that runs from J7208 to the new
> RCA jack on the back panel. I could just cut the original coax and use
> it, but I want the option to back out of this modification if I don't
> like it.
>

> I have coax cable I can use. I need the tiny coax plug that goes on the
> end of the cable. The plug is a crimp-on style and very small. It is
> keyed and only fits into the circuit board jack in one orientation. The
> circuit board jack (which I don't need) sticks up off of the board at a
> 45-degree angle.
>
> I thought I would just order a spare cable from YAESU and use it for my
> modification. I contacted YAESU. They don't have a part number for the
> cable. They would have to build one from scratch at the factory in
> Japan and were unwilling to do this.
>
> I have been searching catalogs but not finding the plug I need to be
> compatible with the jack on the LPF board.
>
> Does anyone know what type of connectors these are and where I can get
> some?
>
> Thanks - Jeff - KA9S

Although I have not seen the plug, it sounds similar to what Ten Tec used in
the Omni VI series and probably others. Ten Tec is very helpful, you might
give them a call.

Dale W4OP
>

From 4500794220261540523
X-Google-Thread: fc2a5,f1f50a7d8c22e170,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!newssvr27.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: double balanced mixer ?
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <ZQrsh.21570$yC5.9367@newssvr27.news.prodigy.net>
NNTP-Posting-Host: 70.142.62.252
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr27.news.prodigy.net 1169312185 ST000 70.142.62.252 (Sat, 20 Jan 2007 11:56:25 EST)
NNTP-Posting-Date: Sat, 20 Jan 2007 11:56:25 EST
Organization: SBC http://yahoo.sbc.com

```
X-UserInfo1:
[[PAPDCA[S@ERQXXKZOX_RXAUSXB@DTMNHWB_EYLJZ]BGIEL_NTKAH_[JTXDX_KI\VB]JBVMS^YT_G[CZV
WAOS\DHFWEH]@KGXYHB\_CMDSFABP^J[AHHRKARLE_JDBLJ\XA[JRMEI]MGJSPB\Y]^KG\@S^@VQKI_Q[G
@@_ACSARASDEFLBJ]S\GFNTUAVBL
Date: Sat, 20 Jan 2007 16:56:25 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8715
```

I have several dbm modules, most with sma but some with bnc and most have
the labels worn off. I suspect one might be HF and the rest microwave. I
have a Watkins Johnson with a blown mixer and need to replace it. I've
ordered a Minicircuits SRA-3H but no word as yet. How would I go about
testing these to find out if they're any good and good for VLF to 30 MHz?
It would be too hard to substitute them as the space is limited and I don't
want to risk buggering something else up. On some I'll have to determine,
in, out, osc and that mya be a chore if the unit bad.. Any tips on how to
determine the leads and test for performance appreciated.
tnx

--

73
Hank WD5JFR

```
From -5171694000551348 13
X-Google-Thread: fc2a5,a8cc406be44a122c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews1.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Low Noise VFO
References: <1169083418.423858.144080@11g2000cwr.googlegroups.com>
<45af8a1e.9724828@news.optonline.net>
In-Reply-To: <45af8a1e.9724828@news.optonline.net>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 15
Message-ID: <5nssh.250$jA.135@bignews1.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
pcpocbcnbdmdhgfgdbdpiflmbcekedmfhojhikkbagflhcboeinngnjjdkokacgognellbcodpkhgadmkb
mlgenmfgdogjdnhjeggnkapmkkacadakngmmneimggmmdkefnfpmippegjedppakmmjefidncmmggd
NNTP-Posting-Date: Sat, 20 Jan 2007 12:32:49 EST
Organization: BellSouth Internet Group
```

```
Date: Sat, 20 Jan 2007 12:32:59 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8716

Rick wrote:
>> I was surfing the net and found a reference to an unusual low phase
>> noise LC VFO that uses two inductors.  Unfortunately it seems I forgot
>> to bookmark the site.  Can anyone help?
>
>
> Larry,  Have you tried looking at your history in your browser?  It
> probably remembers where you were.  If you recognize the URL from the
> list if you see it, just click on it and away you go.
> If you are using Internet Explorer click on the little clock with the
> green arrow on it to get to your history list.
>
> Rick  K2XT
Browsers usually only remember history of URL's directly typed in.  If a
site is reached via a link the browser won't save the history of it.



From 6393867326224286362
X-Google-Thread: fc2a5,f1f50a7d8c22e170
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!38g2000cwa.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: double balanced mixer ?
Date: 20 Jan 2007 09:48:11 -0800
Organization: http://groups.google.com
Lines: 22
Message-ID: <1169315291.826554.250810@38g2000cwa.googlegroups.com>
References: <ZQrsh.21570$yC5.9367@newssvr27.news.prodigy.net>
NNTP-Posting-Host: 66.19.114.88
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1169315304 19073 127.0.0.1 (20 Jan 2007 17:48:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 20 Jan 2007 17:48:24 +0000 (UTC)
In-Reply-To: <ZQrsh.21570$yC5.9367@newssvr27.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 38g2000cwa.googlegroups.com; posting-host=66.19.114.88;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:8717


Henry Kolesnik wrote:..  Any tips on how to
> determine the leads and test for performance appreciated.
> tnx
```

> Hank WD5JFR

Andy writes:
  MSL normally has very good information in their catalogs regarding
the connectors, frequency range, and performance of their mixers.
  If you don't have their catalogs lying around, there are two more
possibilities... Do a google to find their website and they may have
everything on online.   Otherwise, call their customer service line and

tell them the info you need.... In my previous life, they gave
excellent
support...

    Good luck,

             Andy W4OAH, in Eureka, Texas

From 2002633700112034976
X-Google-Thread: fc2a5,d2e0b6dcca7d384f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!lon-transit.news.telstra.net!lon-in.news.telstra.net!news.telstra.net!news-server.bigpond.net.au!53ab2750!not-for-mail
From: "HH" <harryharms@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <fVynh.1978$A8.1052@news-server.bigpond.net.au>
<1168033004.985799.300470@51g2000cwl.googlegroups.com>
Subject: Re: Re:Schedule 40 PVC
Lines: 30
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <9oHnh.2272$A8.1519@news-server.bigpond.net.au>
Date: Sat, 06 Jan 2007 06:32:37 GMT
NNTP-Posting-Host: 203.51.86.105
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1168065157 203.51.86.105 (Sat, 06 Jan 2007 17:32:37 EST)
NNTP-Posting-Date: Sat, 06 Jan 2007 17:32:37 EST
Organization: BigPond Internet Services
Xref: g2news2.google.com rec.radio.amateur.homebrew:8566

Been there and done that, and I didn't find the page you found, thank you
all for your help.
I really appreciate it!
John
<sailtamarack@yahoo.ca> wrote in message
news:1168033004.985799.300470@51g2000cwl.googlegroups.com...

:
: HH wrote:
: > I would like to know what the actual OD is of schedule 40 PVC tubing.
: > I am building a NVIS dipole for 3.6 & 7.2 Mhz
: > I know what the wall thickness is and the nominal size, but say for instance
: > the OD of 1 1/2" schedule 40, is it really the OD they are measuring?
: >
: > Here in Australia we have a quaint method of measuring structural steel pipe
: > where the OD is nothing like the size its listed at.
: >
: > For example 3/4" pipe is actually 1 1/16 OD!! Give or take the wall
: > thickness, but its still known as 3/4" pipe!
: >
: >
: > Thanks
: > John
: > VK2KCE
:
: Google is your friend: http://www.gizmology.net/pipe.htm
:

From 1393430876654644473
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 06 Jan 2007 03:29:29 -0600
Message-ID: <nX5kUvGeh2nFFAi3@ifwtech.co.uk>
Date: Sat, 6 Jan 2007 09:14:06 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS kit
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
 <x0Rnj9QHkFFArr@ifwtech.co.uk>
 <gkUkh.12641$641.9012@bignews4.bellsouth.net>
 <feKdnfoy6rKKsgLYnZ2dnUVZ_r2onZ2d@neonova.net>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<5mwkzTBRO5sETFKkGhyHHc+YXH>)
Lines: 42
NNTP-Posting-Host: 91.84.67.49
X-Trace: sv3-ZsoqE4tlDRPpQxp/
ukH+zstDRvDsJggAZVrsvUQ65SzmouP6Tr5vH7ZUUtPAslTanoWEeNOF0jkm8zw!
8XcnozKaSXtT6pxdS0NTdNwPPq69zC2nug+QK2i8S0nVkHHj1HlUu2iQ3Kzh//egg68ghAk=

X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8567

Jim Barber wrote:

>I've been working on a high-power HF autotuner design that I'd just
>about shelved because of the necessity of soldering the DDS chip. (it
>uses an internal RF source to power the phase detector)
>
>This thread has helped a lot. When time permits I may order up some
>parts and give it a try. I have a good-quality magnifier lamp and a
>fine-point temp-controlled pencil, what I don't have is OEM eye lenses
>and flexible finger joints... ;-)

Most of my SMD work is done using half-moon reading glasses - the strongest and cheapest available from the drugstore - in front of my normal glasses. When not in use, they hang from a neck cord.

After publishing this suggestion, a very generous person *gave* me a professional-quality binocular microscope. This is wonderful for big jobs like assembling a whole new board... but to be honest, I still tend to use the double glasses more, because the "setup process" is much quicker.

You will find that the tip of the soldering iron becomes much steadier when seen under the magnifier. This feedback loop is a wonderful thing, especially if you give it the best possible chance to work:

- "Use the scope, Luke!" - learn to concentrate exclusively on what you're SEEING. This is harder than it seems, because for normal soldering we also rely a lot on our sense of touch, and automatically tend to press the tip of the iron against the parts being soldered. With SMD this is a disaster - it simply pushes the parts out of position - so you need to break that habit and concentrate on using ONLY your eyes.

- Steady your arm against the edge of the bench, so you're not trying to stabilize your whole body.

- Stay off the caffeine - it creates a fine tremor that the brain cannot stabilize (too much "noise" in the feedback loop).

--
73 from Ian GM3SEK 'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From 2802512737553172911

```
X-Google-Thread: fc2a5,5743317e828d1035
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!130.59.10.21.MISMATCH!
kanaga.switch.ch!switch.ch!newsfeed3.funet.fi!newsfeed1.funet.fi!
newsfeeds.funet.fi!nntp.inet.fi!central1.inet.fi!inet.fi!read3.inet.fi.POSTED!
53ab2750!not-for-mail
From: "Jukka Pappinen" <japappin@hytti.uku.fi>
Newsgroups: rec.radio.amateur.homebrew
References:
<VD9nh.19224$AX.15603@reader1.news.saunalahti.fi><1cunh.200$sE.25@read3.inet.fi>
<5Sznh.20298$xq7.1354@reader1.news.saunalahti.fi>
Subject: Re: Making vari-caps for ATU
Lines: 9
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="UTF-8";
     reply-type=original
Content-Transfer-Encoding: 8bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Antivirus: avast! (VPS 0701-1, 05.01.2007), Outbound message
X-Antivirus-Status: Clean
Message-ID: <7pKnh.83$_B1.67@read3.inet.fi>
Date: Sat, 06 Jan 2007 09:58:27 GMT
NNTP-Posting-Host: 84.249.178.110
X-Complaints-To: abuse@inet.fi
X-Trace: read3.inet.fi 1168077507 84.249.178.110 (Sat, 06 Jan 2007 11:58:27 EET)
NNTP-Posting-Date: Sat, 06 Jan 2007 11:58:27 EET
Organization: Sonera corp Internet services
Xref: g2news2.google.com rec.radio.amateur.homebrew:8568

"Ceriel Nosforit" <ceriel@googlemail.com> kirjoitti viestissä:5Sznh.20298
>
> How is your tuner going to be semi-automatic, if I may ask?

"Remote controlled tuner with few memories for spot frequencies" maybe
describes better what I'm going to do.

- Jukka, oh6mwq




From 2516074809207402048
X-Google-Thread: 1109af,a47a1e56436c4a88,start
X-Google-Thread: 108122,a47a1e56436c4a88,start
X-Google-Thread: fc2a5,a47a1e56436c4a88,start
X-Google-Attributes: gid1109af,gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news2.google.com!postnews.google.com!q40g2000cwq.googlegroups.com!not-for-
mail
From: wa6ilq@gmail.com
Newsgroups: rec.radio.swap,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Needed: Motorola R2400 service/repair manual
Date: 6 Jan 2007 02:08:40 -0800
Organization: http://groups.google.com
Lines: 7
Message-ID: <1168078120.260369.116870@q40g2000cwq.googlegroups.com>
NNTP-Posting-Host: 75.22.58.151
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1168078132 32573 127.0.0.1 (6 Jan 2007 10:08:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 6 Jan 2007 10:08:52 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q40g2000cwq.googlegroups.com; posting-host=75.22.58.151;
   posting-account=-Lu8WA0AAADy0lzrwNkwNyf05YOErBrz
Xref: g2news2.google.com rec.radio.swap:10910 rec.radio.amateur.equipment:7804
rec.radio.amateur.homebrew:8569

The subject line says it all, a friend has acquired a new toy that is
way out of calibration, and needs the manual to bring it back to
life...
I'd like to locate a manual by march 1 for a birthday present.

reply to wa6ilq //a// gmail /./ com




From -2757566649176842403
X-Google-Thread: fc2a5,a3f7c10ba655411e,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Subject: FM XMTR distortion measurements
From: chuck <nospam@nospam.org>
Date: Sat, 06 Jan 2007 12:29:29 -0500
Message-ID: <1168104654_7873@sp6iad.superfeed.net>
Lines: 31
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.250.MISMATCH!transit3.readnews.com!news-out.readnews.com!news-
out.usenet.com!sp6iad.superfeed.net!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
X-Proxy-User: $$x38rj
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Report:  Please report illegal or inappropriate use to <abuse@newsfeeds.com>.
```

Forward a copy of ALL headers INCLUDING the body. (DO NOT SEND ATTACHMENTS)
X-Comments2: IMPORTANT: Newsfeeds.com does not condone,support,nor tolerate spam or any illegal or copyrighted postings.
X-Comments: This message was posted through Newsfeeds.com
Organization: Superfeed.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8570

In making FM transmitter distortion measurements, does anyone inject the 1 kHz audio signal into an FM transmitter by holding the microphone next to a speaker? It would seem that neither speaker nor microphone would produce enough distortion of a single frequency to affect the results, and in any case, the microphone is part of the system being tested.

The idea would be to avoid having to fiddle with the variety of microphone connectors out there.

I suppose I can and should compare the results of this technique with applying the audio signal directly to the microphone input terminal.

Appreciate any thoughts. TIA.

Chuck
NT3G

----== Posted via Newsfeeds.Com - Unlimited-Unrestricted-Secure Usenet News==----
http://www.newsfeeds.com The #1 Newsgroup Service in the World! 120,000+ Newsgroups
----= East and West-Coast Server Farms - Total Privacy via Encryption =----

From 7462030708565289834
X-Google-Thread: fc2a5,a3f7c10ba655411e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 06 Jan 2007 12:19:29 -0600
Date: Sat, 06 Jan 2007 10:19:39 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FM XMTR distortion measurements
References: <1168104654_7873@sp6iad.superfeed.net>
In-Reply-To: <1168104654_7873@sp6iad.superfeed.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <bpudnYjdF8KsdQLYnZ2dnUVZ_sWdnZ2d@web-ster.com>
Lines: 33
NNTP-Posting-Host: 65.182.233.156

```
X-Trace: sv3-4nQc6Uv7+HHWWoQOuW4l9tfSNoWgCW/42dy5HXvJU/+oSkep9lG763aigG5rdKMu/
UdndFSlAMfqDbO!
imn6OE1VLXevj0lhwP6hQtUoP0vvi7nYNFR6f6P3ZU7qjk+js+ovfNmV11FrEajk8J5M9t6UX0wK!
Ep0jqHeqmZawbtyP
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8571

chuck wrote:

> In making FM transmitter distortion measurements, does anyone inject the
> 1 kHz audio signal into an FM transmitter by holding the microphone next
> to a speaker? It would seem that neither speaker nor microphone would
> produce enough distortion of a single frequency to affect the results,
> and in any case, the microphone is part of the system being tested.
>
> The idea would be to avoid having to fiddle with the variety of
> microphone connectors out there.
>
> I suppose I can and should compare the results of this technique with
> applying the audio signal directly to the microphone input terminal.
>
Applying the signal to the microphone input terminals addresses just
part of a system, allowing you to point to the transmitter itself and
either say "that is a problem" or "that is not a problem".  Applying the
signal to the system as a whole only lets you wave a hand at your bench
and say "somewhere over there, there is a problem".

I'd check transmitter and microphone separately.  Then if they passed
and I'm feeling conscientious I'd check them together.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google?  See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html


From -8762008523211107653
X-Google-Thread: fc2a5,5743317e828d1035
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!koehntopp.de!
newsfeed.freenet.de!border2.nntp.ams.giganews.com!nntp.giganews.com!
```

feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: "Ceriel Nosforit" <ceriel@googlemail.com>
Subject: Re: Making vari-caps for ATU
Newsgroups: rec.radio.amateur.homebrew
References: <VD9nh.19224$AX.15603@reader1.news.saunalahti.fi>
<1cunh.200$sE.25@read3.inet.fi>
<5Sznh.20298$xq7.1354@reader1.news.saunalahti.fi>
<Rfmdndl2MbU8SwPYnZ2dnUVZ8qaqnZ2d@pipex.net>
Organization: Guerilla Computing
X-Face: 'BO/KG^w;,{wBozPy|^Wq~_NPJhKO0E/c9/wmO~};`Yg\g2;g4AAGqlwa^~Je7u6H$%*WEyP"}
{55=7!YAM/`0D~8)Y{+#?+ak;Gv__9WsE4QzeLAu0)n9e2Yd]02LZ-Vv&(&`=%
User-Agent: pan 0.115 (Mrs. Kerr Says Remember the Tip Jar)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 25
Message-ID: <uNVnh.21089$z81.11170@reader1.news.saunalahti.fi>
Date: Sat, 06 Jan 2007 22:55:22 GMT
NNTP-Posting-Host: 80.186.169.2
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1168124122 80.186.169.2 (Sun, 07 Jan 2007 00:55:22 EET)
NNTP-Posting-Date: Sun, 07 Jan 2007 00:55:22 EET
Xref: g2news2.google.com rec.radio.amateur.homebrew:8572

Alas, on the wretched hour of Fri, 05 Jan 2007 23:52:01 +0100 Highland
Ham thusly proclaimed:

>> How is your tuner going to be semi-automatic, if I may ask?
> =========================
> Suggest you consider a stepper motor from a dumped
> printer/scanner/floppy drive or HD ,if necessary including a shaft
> rotational reducer when steps are too big.
> Google will provide you with suitable (simple) circuits to drive the
> motor ,usually involving one or more opamps.
> From semi-automatic the circuit can evolve towards a fully automatic
> system with a SWR sensing circuit.
>
> Frank   KN6WH/GM0CSZ

You know... I just happen to have two old floppy drives in my drawer.
Might be able to control them as they are through the standard cable if I
have the right software. Would just have to make another mechanical
modification to put the motion to use. A standard diskette might come in
handy for that. :)

Excellent idea! Thanks!

--
Nos

From 5409091025060659419

```
X-Google-Thread: fc2a5,a3f7c10ba655411e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
Date: Sat, 06 Jan 2007 20:46:42 -0500
From: **THE-RFI-EMI-GUY** <rhyolite@nettally.com>
Organization: Central Scrutinizer
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: FM XMTR distortion measurements
References: <1168104654_7873@sp6iad.superfeed.net>
In-Reply-To: <1168104654_7873@sp6iad.superfeed.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 43
Message-ID: <45a05062$0$9563$4c368faf@roadrunner.com>
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8573
```

You have to control the levels so that the transmitter doesn't get driven into deviation limiting. Usually testing is done at 60% of system deviation. I am assuming this is a land mobile transmitter? Connecting a tone generator to the microphone terminals is best way to control the test.

chuck wrote:

> In making FM transmitter distortion measurements, does anyone inject the 1 kHz audio signal into an FM transmitter by holding the microphone next to a speaker? It would seem that neither speaker nor microphone would produce enough distortion of a single frequency to affect the results, and in any case, the microphone is part of the system being tested.
>
> The idea would be to avoid having to fiddle with the variety of microphone connectors out there.
>
> I suppose I can and should compare the results of this technique with applying the audio signal directly to the microphone input terminal.
>
>
> Appreciate any thoughts. TIA.
>
> Chuck
> NT3G
>
> ----== Posted via Newsfeeds.Com - Unlimited-Unrestricted-Secure Usenet News==----
> http://www.newsfeeds.com The #1 Newsgroup Service in the World!

> 120,000+ Newsgroups
> ----= East and West-Coast Server Farms - Total Privacy via Encryption
> =----

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

```
From 5160311890761620209
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!elnk-atl-nf1!
newsfeed.earthlink.net!bigfeed2.bellsouth.net!bigfeed.bellsouth.net!
bignumber.bellsouth.net!news.bellsouth.net!bignews7.bellsouth.net.POSTED!ef55a73e!
not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS kit
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
<x0Rnj9Q$H$kFFArr@ifwtech.co.uk> <gkUkh.12641$641.9012@bignews4.bellsouth.net>
<feKdnfoy6rKKsgLYnZ2dnUVZ_r2onZ2d@neonova.net> <nX5kUvGeh2nFFAi3@ifwtech.co.uk>
In-Reply-To: <nX5kUvGeh2nFFAi3@ifwtech.co.uk>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 58
Message-ID: <FF_nh.24242$cB6.1283@bignews7.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
enggpaojkliedbjjdbdpiflmbcekedmfhojhikkbagflhcboenjbnikecoakhdljakdppnhpkmiolhflki
nhjlbapkmhbiplgkijmcjgblkkcjmfakngmmneimggmmdkdihicgceojpmkmpdeaibfkdolpmeppbl
NNTP-Posting-Date: Sat, 06 Jan 2007 23:28:21 EST
Organization: BellSouth Internet Group
Date: Sat, 06 Jan 2007 23:28:18 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8574
```

Ian White GM3SEK wrote:
> Jim Barber wrote:
>> I've been working on a high-power HF autotuner design that I'd just
>> about shelved because of the necessity of soldering the DDS chip. (it

>> uses an internal RF source to power the phase detector)
>>
>> This thread has helped a lot. When time permits I may order up some
>> parts and give it a try. I have a good-quality magnifier lamp and a
>> fine-point temp-controlled pencil, what I don't have is OEM eye lenses
>> and flexible finger joints... ;-)
>
> Most of my SMD work is done using half-moon reading glasses - the
> strongest and cheapest available from the drugstore - in front of my
> normal glasses. When not in use, they hang from a neck cord.
>
> After publishing this suggestion, a very generous person *gave* me a
> professional-quality binocular microscope. This is wonderful for big
> jobs like assembling a whole new board... but to be honest, I still tend
> to use the double glasses more, because the "setup process" is much
> quicker.
>
> You will find that the tip of the soldering iron becomes much steadier
> when seen under the magnifier. This feedback loop is a wonderful thing,
> especially if you give it the best possible chance to work:
>
> * "Use the scope, Luke!" - learn to concentrate exclusively on what
> you're SEEING. This is harder than it seems, because for normal
> soldering we also rely a lot on our sense of touch, and automatically
> tend to press the tip of the iron against the parts being soldered. With
> SMD this is a disaster - it simply pushes the parts out of position - so
> you need to break that habit and concentrate on using ONLY your eyes.
>

The problem with a 10x microscope is first FINDING the soldering iron
tip in the field of view. If I am looking into the microscope and
trying to place the iron on the work often the iron ends up way in left
field (or I push it into my other hand OUCH!) TOO much magnification
can be TOO much of a good thing. I wish I had another set of eye piece
lenses (or an other objective) so I could go down to 5X sometimes.

My microscope is a true binocular with poro prisms and dual objective
and eyepiece lenses. It was a 'gift' from a former employer (they were
cleaning up the lab and threw it out). I did have to jury rig a stand
since only the optic head was found in the trash, the unit originally
mounted on a long spring loaded 'gooseneek', like those circleline
magnifier lamps. (One of the focus knobs is cracked in half, but I can
live with that).

> * Steady your arm against the edge of the bench, so you're not trying to
> stabilize your whole body.
>
> * Stay off the caffeine - it creates a fine tremor that the brain cannot
> stabilize (too much "noise" in the feedback loop).
>
>
>

Damn Cuban Coffee (Well, I work in Miami!)

```
From -58230572358989462
X-Google-Thread: 106d41,b02ce1985ecad275
X-Google-Thread: fc2a5,e1a1c5a3b803987b,start
X-Google-Attributes: gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v33g2000cwv.googlegroups.com!not-for-
mail
From: "Telstar Electronics" <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.cb,rec.radio.amateur.homebrew
Subject: Re: Speech Processor Product - Your Input is Requested
Date: 7 Jan 2007 06:57:03 -0800
Organization: http://groups.google.com
Lines: 9
Message-ID: <1168181822.581459.127850@v33g2000cwv.googlegroups.com>
References: <1168110656.671456.219070@v33g2000cwv.googlegroups.com>
   <a3vvp25t8gc2kqkplvnhfv87c48d783lp5@4ax.com>
   <1168116804.604881.95370@q40g2000cwq.googlegroups.com>
   <mtVnh.146$lO1.104@newsfe12.lga>
   <1168124811.332150.140290@51g2000cwl.googlegroups.com>
   <ksWnh.55$eN3.2@newsfe10.lga>
NNTP-Posting-Host: 75.58.66.3
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1168181832 2546 127.0.0.1 (7 Jan 2007 14:57:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 7 Jan 2007 14:57:12 +0000 (UTC)
In-Reply-To: <ksWnh.55$eN3.2@newsfe10.lga>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v33g2000cwv.googlegroups.com; posting-host=75.58.66.3;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news2.google.com rec.radio.cb:24565 rec.radio.amateur.homebrew:8575
```

Thanks to the several people who have responded already. They were sharp enough to copy & paste the original questionaire... with their responses... and send via email. Actually, I was surprised at some of the responses... but that's good. That means that my ideas for the feature list may not be mainstream. I'm looking forward to others responding so I can see trends as they develop.

www.telstar-electronics.com

```
From 4889398677162808286
X-Google-Thread: fc2a5,fd872d86d1585f08,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news2.google.com!postnews.google.com!q40g2000cwq.googlegroups.com!not-for-
mail
From: "mike" <wizzo@mail.pf>
Newsgroups: rec.radio.amateur.homebrew
Subject: surplus microwaves doors openers
Date: 7 Jan 2007 13:49:08 -0800
Organization: http://groups.google.com
Lines: 11
Message-ID: <1168206548.512735.312250@q40g2000cwq.googlegroups.com>
NNTP-Posting-Host: 203.185.173.225
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1168206554 28136 127.0.0.1 (7 Jan 2007 21:49:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 7 Jan 2007 21:49:14 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; fr; rv:1.8.1.1) Gecko/
20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q40g2000cwq.googlegroups.com; posting-host=203.185.173.225;
   posting-account=kxB1iw0AAAAVUQ5uMLQjgC51jbIhlx6d
Xref: g2news2.google.com rec.radio.amateur.homebrew:8576
```

Hello 2 all

I'm looking since a long time, a compagny that sells surplus microwaves doors openers (solfan modules or similar).

Any ideas ?

thanx & 73

Mike.(F03MM)

```
From -4809093663002349533
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.neonova.net!
news.neonova.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 07 Jan 2007 23:34:02 -0600
Date: Sun, 07 Jan 2007 21:33:49 -0800
From: Jim Barber <jim@sonicfocus.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS kit
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
<x0Rnj9Q$H$kFFArr@ifwtech.co.uk> <gkUkh.12641$641.9012@bignews4.bellsouth.net>
<feKdnfoy6rKKsgLYnZ2dnUVZ_r2onZ2d@neonova.net> <nX5kUvGeh2nFFAi3@ifwtech.co.uk>
```

<FF_nh.24242$cB6.1283@bignews7.bellsouth.net>
In-Reply-To: <FF_nh.24242$cB6.1283@bignews7.bellsouth.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Iv-dnee1n7VXSjzYnZ2dnUVZ_orinZ2d@neonova.net>
Lines: 67
NNTP-Posting-Host: 12.144.251.150
X-Trace: sv3-
IjqZ0uaKe0a0olnZ+HA1hSoBQGpZQu0DojeMK9fC77oShEJ18bwWaYCNQq+5FWe0Up2IqVbIdBb6J1O!
uFBfSQjuoSXRN1JkHq1POMo5BvYiIM9dGuZjN3ke0p47Uu5CDGGLqV9l/aiZCFI1+C/gb9vly41g!
+nPQy/WSABbRXg==
X-Complaints-To: abuse@neonova.net
X-DMCA-Complaints-To: abuse@neonova.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8577

Thanks for the tips, gents.
Sounds like a binocular microscope would be a great tool; otherwise I
suspect depth perception might be an issue.

I'll keep an eye out for one.

Jim, N7CXI

ken scharf wrote:
> Ian White GM3SEK wrote:
>> Jim Barber wrote:
>>> I've been working on a high-power HF autotuner design that I'd just
>>> about shelved because of the necessity of soldering the DDS chip. (it
>>> uses an internal RF source to power the phase detector)
>>>
>>> This thread has helped a lot. When time permits I may order up some
>>> parts and give it a try. I have a good-quality magnifier lamp and a
>>> fine-point temp-controlled pencil, what I don't have is OEM eye lenses
>>> and flexible finger joints... ;-)
>> Most of my SMD work is done using half-moon reading glasses - the
>> strongest and cheapest available from the drugstore - in front of my
>> normal glasses. When not in use, they hang from a neck cord.
>>
>> After publishing this suggestion, a very generous person *gave* me a
>> professional-quality binocular microscope. This is wonderful for big
>> jobs like assembling a whole new board... but to be honest, I still tend
>> to use the double glasses more, because the "setup process" is much
>> quicker.
>>
>> You will find that the tip of the soldering iron becomes much steadier
>> when seen under the magnifier. This feedback loop is a wonderful thing,
>> especially if you give it the best possible chance to work:
>>

```
>> * "Use the scope, Luke!" - learn to concentrate exclusively on what
>> you're SEEING. This is harder than it seems, because for normal
>> soldering we also rely a lot on our sense of touch, and automatically
>> tend to press the tip of the iron against the parts being soldered. With
>> SMD this is a disaster - it simply pushes the parts out of position - so
>> you need to break that habit and concentrate on using ONLY your eyes.
>>
> The problem with a 10x microscope is first FINDING the soldering iron
> tip in the field of view.  If I am looking into the microscope and
> trying to place the iron on the work often the iron ends up way in left
> field (or I push it into my other hand OUCH!)  TOO much magnification
> can be TOO much of a good thing.  I wish I had another set of eye piece
> lenses (or an other objective) so I could go down to 5X sometimes.
>
> My microscope is a true binocular with poro prisms and dual objective
> and eyepiece lenses.  It was a 'gift' from a former employer (they were
> cleaning up the lab and threw it out).  I did have to jury rig a stand
> since only the optic head was found in the trash, the unit originally
> mounted on a long spring loaded 'gooseneek', like those circleline
> magnifier lamps.  (One of the focus knobs is cracked in half, but I can
> live with that).
>
>> * Steady your arm against the edge of the bench, so you're not trying to
>> stabilize your whole body.
>>
>> * Stay off the caffeine - it creates a fine tremor that the brain cannot
>> stabilize (too much "noise" in the feedback loop).
>>
>>
>>
> Damn Cuban Coffee (Well, I work in Miami!)
>
>


From 3034899752569019810
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Jan 2007 02:25:12 -0600
Message-ID: <D6+1K0EX9foFFAMT@ifwtech.co.uk>
Date: Mon, 8 Jan 2007 08:22:47 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS kit
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
 <x0Rnj9Q$H$kFFArr@ifwtech.co.uk>
 <gkUkh.12641$641.9012@bignews4.bellsouth.net>
 <feKdnfoy6rKKsgLYnZ2dnUVZ_r2onZ2d@neonova.net>
 <nX5kUvGeh2nFFAi3@ifwtech.co.uk>
 <FF_nh.24242$cB6.1283@bignews7.bellsouth.net>
 <Iv-dnee1n7VXSjzYnZ2dnUVZ_orinZ2d@neonova.net>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<5mwkzTBRO5sETFKkGhyHHc+YXH>)
Lines: 47
NNTP-Posting-Host: 82.153.8.81
X-Trace: sv3-5CNd50pho3YefWfZaN9L08IsdllOIJTU/
de07q11PT6j1MAJwRaYTpLJlx7MG9yDP1xHEc3vumYx4fu!D0QNLG/
704aUIjBf1mM6gH82R9GB529E30Sobv5DbaU0zhE4oCdU/Z1YGBKnFdrcSj+iFF0=
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8578
```

Jim Barber wrote:

>Thanks for the tips, gents.
>Sounds like a binocular microscope would be a great tool; otherwise I
>suspect depth perception might be an issue.
>

It still is an issue, because a microscope prevents you from using one of the most natural ways of perceiving depth, by looking at the board from a few different angles. Only a head-mounted viewer allows this.

A large lens on a spring arm is a kind of half-way option, but it rapidly loses quality at off-axis angles.

Another problem that needs to be mentioned is focusing and depth of focus. With a microscope, you have to put down the iron or the solder in order to adjust the focus. With a head-mounted viewer, you simply move your head to re-focus... but by the end of the day you'll probably have neck strain.

Also we haven't mentioned lighting. All microscopes tend to suffer from poor light-gathering power, so the work area needs to be very brightly lit.

While we're on the subject, a friend has come up with yet another option. Like many of us, he has a very good detachable zoom lens for a 35mm camera that he doesn't use any more. He has fixed this onto a low-cost colour CCTV camera, and positioned it about 4 feet above the workbench, looking straight down. This gives a moderately magnified view of the work area on a TV monitor directly in front of him.

This has the big advantage of leaving the workspace completely unobstructed, so he can switch very easily and naturally between the monitor and the direct view. He reports that it avoids a lot of the eye and neck strain.

The main practical problem that he still has to solve is "camera shake", because of viewing from such a long distance. In his case, the camera is mounted from the roof of a wooden shack, so he can't do SMD work on a windy day.

If you have a suitable lens and a CCTV camera, this option would be well worth trying.

--
73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

```
From -1479078378142310406
X-Google-Thread: fc2a5,a491babc3305397c,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v33g2000cwv.googlegroups.com!not-for-
mail
From: "m1jak" <brunoalan@supanet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: yaesu 757gx
Date: 8 Jan 2007 06:04:41 -0800
Organization: http://groups.google.com
Lines: 4
Message-ID: <1168265081.601828.173080@v33g2000cwv.googlegroups.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 8 Jan 2007 14:04:51 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v33g2000cwv.googlegroups.com; posting-host=86.112.251.68;
   posting-account=4fRcYw0AAACDrreJrLif3odkgKCJbGIL
Xref: g2news2.google.com rec.radio.amateur.homebrew:8579
```

Can anyone help please, I have a yaesu 757gx and just want to now how I adjust the output power, I know it is only 100 watts maximum but how do I Decrease the output power? can any one help please

```
From -6230288270568873370
X-Google-Thread: fc2a5,a491babc3305397c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Jan 2007 08:27:33 -0600
Reply-To: "Sam" <aa8wl@comcast.net>
From: "Sam" <aa8wl@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1168265081.601828.173080@v33g2000cwv.googlegroups.com>
Subject: Re: yaesu 757gx
Date: Mon, 8 Jan 2007 09:27:33 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2600.0000
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
Message-ID: <HMmdnaPn0s1IyT_YnZ2dnUVZ_uOmnZ2d@comcast.com>
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X-Trace: sv3-
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KaiMQBOfoCLplXu+ilGVb/K/mz3Ebdd6GbcHYdpDBTz2LOH20tOmHvaZntt5iAhtxp8UMZHA6mnU!
Ed8f8/M=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8580

Try the dial knob just behind the mic gain, this should be the control to
adjust the power. CCW to decrease/CW to increase. 73' de aa8wl, Sam
"m1jak" <brunoalan@supanet.com> wrote in message
news:1168265081.601828.173080@v33g2000cwv.googlegroups.com...
> Can anyone help please, I have a yaesu 757gx and just want to now how I
> adjust the output power, I know it is only 100 watts maximum but how do
> I Decrease the output power? can any one help please
>




From 7186178621807902379
X-Google-Thread: fc2a5,6e7bd3994f9a1b24,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.got.net!news.got.net.POSTED!
not-for-mail
NNTP-Posting-Date: Mon, 08 Jan 2007 10:24:33 -0600
Date: Mon, 08 Jan 2007 08:24:46 -0800
From: Joaquin Tall <opalockamishabob@'86DASPAMnetscape.net>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Your Favorite QRP Sites, please
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <NoKdnXejJJ7f7T_YnZ2dnUVZ_ternZ2d@got.net>
Lines: 17
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X-Trace: sv3-
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GDSxjJiTvMWQiBikdGrqaoDoPikeV9/OMj3ZYMPIQMqNL6vbbomShWVbRmoMjBWJzPA4qKHar0Ub!EA==
X-Complaints-To: abuse@got.net
X-DMCA-Complaints-To: abuse@got.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8581
```

Hello All,

I am soon to take my "tech" license test and would very much like my first contact to be QRP. I know that CW is not a favorite topic of conversation on most amateur radio newsgroups/message boards, but I find it a fascinating mode and am eager to learn it and master it.

At 60 years of age, it has been a challenge to master the little that I have learned.

Can you please post your favorite QRP/CW tutorial sites to assist me? I'm also looking for recommendations for a first QRP rig, new or previously owned.

Many thanks for taking the time to respond!

Alain

```
From 4362408845361263798
X-Google-Thread: fc2a5,6e7bd3994f9a1b24
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!news.glorb.com!
hwmnpeer01.lga!news.highwinds-media.com!hw-filter.phx!newsfe13.phx.POSTED!
53ab2750!not-for-mail
From: "Caveat Lector" <CL@nowhere.com>
Newsgroups: rec.radio.amateur.homebrew
References: <NoKdnXejJJ7f7T_YnZ2dnUVZ_ternZ2d@got.net>
Subject: Re: Your Favorite QRP Sites, please
Lines: 37
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Response
```

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <Qvuoh.9222$GD4.5718@newsfe13.phx>
Date: Mon, 8 Jan 2007 08:42:26 -0800
NNTP-Posting-Host: 72.197.12.245
X-Complaints-To: admin@cox.net
X-Trace: newsfe13.phx 1168274544 72.197.12.245 (Mon, 08 Jan 2007 09:42:24 MST)
NNTP-Posting-Date: Mon, 08 Jan 2007 09:42:24 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:8582

Some QRP Web Sites at URL:
http://ac6v.com/qrp.htm

For CW Info -- see URL:
http://ac6v.com/morseaids.htm

For CW Tutorial -- see URL:
http://ac6v.com/morseaids.htm#CWOP

For QRP Radio Reviews -- see URL:
http://www.eham.net/reviews/products/22

Good Luck -- CL

"Joaquin Tall" <opalockamishabob@'86DASPAMnetscape.net> wrote in message
news:NoKdnXejJJ7f7T_YnZ2dnUVZ_ternZ2d@got.net...
> Hello All,
>
> I am soon to take my "tech" license test and would very much like my first
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>
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> have learned.
>
> Can you please post your favorite QRP/CW tutorial sites to assist me? I'm
> also looking for recommendations for a first QRP rig, new or previously
> owned.
>
> Many thanks for taking the time to respond!
>
> Alain

From -4449055482623133331
X-Google-Thread: fc2a5,a491babc3305397c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit

```
Path: g2news2.google.com!news4.google.com!news.glorb.com!tudelft.nl!
txtfeed1.tudelft.nl!feeder.news-service.com!138.199.65.86.MISMATCH!sn-xt-ams-06!
sn-xt-ams-03!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-
for-mail
From: Larry Gagnon <lggagnon@fakeuniserve.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: yaesu 757gx
Date: Mon, 08 Jan 2007 10:19:00 -0800
Organization: Uniserve Communications Corporation
Message-Id: <pan.2007.01.08.18.19.00.444676@fakeuniserve.com>
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table)
References: <1168265081.601828.173080@v33g2000cwv.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@supernews.com
Lines: 9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8583

On Mon, 08 Jan 2007 06:04:41 -0800, m1jak wrote:

> Can anyone help please, I have a yaesu 757gx and just want to now how I
> adjust the output power, I know it is only 100 watts maximum but how do
> I Decrease the output power? can any one help please

please see other poster's response but you might also want to read the
manual. If you don't have a paper copy there is one online:
http://foxtango.ham-radio-op.net/



From -8625374218395457145
X-Google-Thread: fc2a5,6e7bd3994f9a1b24
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!cycny01.gnilink.net!
hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe06.lga.POSTED!
53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <NoKdnXejJJ7f7T_YnZ2dnUVZ_ternZ2d@got.net>
Subject: Re: Your Favorite QRP Sites, please
Lines: 50
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <zOwoh.142$A_5.94@newsfe06.lga>
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NNTP-Posting-Date: Mon, 08 Jan 2007 12:18:55 MST
Date: Mon, 8 Jan 2007 14:18:50 -0500
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:8584

"Joaquin Tall" <opalockamishabob@'86DASPAMnetscape.net> wrote in message news:NoKdnXejJJ7f7T_YnZ2dnUVZ_ternZ2d@got.net...

> Can you please post your favorite QRP/CW tutorial sites to assist me? I'm
> also looking for recommendations for a first QRP rig, new or previously
> owned.

The definitive list of QRP links is at

http://www.qrparci.org/component/option,com_weblinks/Itemid,23/lang,en/

If you want to have so much fun it should be illegal, plan to attend the annual QRP gathering at Dayton

http://www.qrparci.org/content/view/1965/118/lang,en/

This is a pretty big effort for some folks, but between all the events over the four days, it is so much fun you just can't believe it. "They say" Thursday to Sunday, but actually the fun starts Wednesday evening, and it pretty well wraps up Saturday night. Friday and Saturday during the day it gets a little slow because some folks head over to some sort of thing at the Hara Arena, but the real fun is at Fairborn.

For information on Morse, especially about learning it well enough to make it fun, try

http://www.k7qo.net/

There is also some good building information on Chuck's page. Chuck used to have some excellent information on the Small Wonder Labs SW+ series of QRP rigs, any which are a very good choice as a first kit. One of the reasons it is a great first choice is the Elmer 101 site

http://epic.mcmaster.ca/~elmer101/

To learn about rigs, people's experiences, and to see what folks have for sale, the QRP-L reflector is the watering hole for most QRPers.

http://mailman.qth.net/mailman/listinfo/qrp-l

Beware ... this is a VERY BUSY email reflector. Unfortunately, you need to sign up to see the archives. There are unofficial archives elsewhere, but I don't have the URL.

This should keep your hunger for data fed for a while <g>

..

From 7145767971231093855
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!bcklog2.nntp.dca.giganews.com!
nntp.neonova.net!news.neonova.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Jan 2007 14:18:36 -0600
Date: Mon, 08 Jan 2007 12:18:36 -0800
From: Jim Barber <jim@sonicfocus.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS kit
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
<x0Rnj9QHkFFArr@ifwtech.co.uk> <gkUkh.12641$641.9012@bignews4.bellsouth.net>
<feKdnfoy6rKKsgLYnZ2dnUVZ_r2onZ2d@neonova.net> <nX5kUvGeh2nFFAi3@ifwtech.co.uk>
<FF_nh.24242$cB6.1283@bignews7.bellsouth.net> <Iv-
dnee1n7VXSjzYnZ2dnUVZ_orinZ2d@neonova.net> <D6+1K0EX9foFFAMT@ifwtech.co.uk>
In-Reply-To: <D6+1K0EX9foFFAMT@ifwtech.co.uk>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
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CpzKH4YGflB4iw==
X-Complaints-To: abuse@neonova.net
X-DMCA-Complaints-To: abuse@neonova.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8585

Now that has potential:

By pure coincidence, I already have a Sony HDR-SR1 high-def (1080i) camcorder and a 21" 16:9 LCD display with HDMI input in the lab.

Putting those two devices together and adding an appropriate macro lens would seem to be a natural thing for this kind of work.

Great idea, Ian!

Jim, N7CXI

Ian White GM3SEK wrote:
> Jim Barber wrote:

```
>> Thanks for the tips, gents.
>> Sounds like a binocular microscope would be a great tool; otherwise I
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>
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> While we're on the subject, a friend has come up with yet another
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> 35mm camera that he doesn't use any more. He has fixed this onto a
> low-cost colour CCTV camera, and positioned it  about 4 feet above the
> workbench, looking straight down. This gives a moderately magnified view
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>
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> unobstructed, so he can switch very easily and naturally between the
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> and neck strain.
>
> The main practical problem that he still has to solve is  "camera
> shake", because of viewing from such a long distance. In his case, the
> camera is mounted from the roof of a wooden shack, so he can't do SMD
> work on a windy day.
>
> If you have a suitable lens and a CCTV camera, this option would be well
> worth trying.
>
>


From -1242094181377592378
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.litech.org!not-for-
mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS kit
```

Date: Mon, 8 Jan 2007 20:23:24 +0000 (UTC)
Organization: Me?
Lines: 22
Sender: mikea@mikea.ath.cx
Message-ID: <enu97s$dq2$1@puck.litech.org>
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
<x0Rnj9QHkFFArr@ifwtech.co.uk> <gkUkh.12641$641.9012@bignews4.bellsouth.net>
<feKdnfoy6rKKsgLYnZ2dnUVZ_r2onZ2d@neonova.net> <nX5kUvGeh2nFFAi3@ifwtech.co.uk>
<FF_nh.24242$cB6.1283@bignews7.bellsouth.net> <Iv-dnee1n7VXSjzYnZ2dnUVZ_orinZ2d@neonova.net> <D6+1K0EX9foFFAMT@ifwtech.co.uk>
<cdKdnR5wOJ6BOj_YnZ2dnUVZ_vCknZ2d@neonova.net>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1168287804 14146 68.15.203.64 (8 Jan 2007 20:23:24 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Mon, 8 Jan 2007 20:23:24 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:8586

On Mon, 08 Jan 2007 12:18:36 -0800, Jim Barber <jim@sonicfocus.com> wrote in
<cdKdnR5wOJ6BOj_YnZ2dnUVZ_vCknZ2d@neonova.net>:

> Now that has potential:

> By pure coincidence, I already have a Sony HDR-SR1 high-def (1080i)
> camcorder and a 21" 16:9 LCD display with HDMI input in the lab.

> Putting those two devices together and adding an appropriate macro lens
> would seem to be a natural thing for this kind of work.

> Great idea, Ian!

> Jim, N7CXI

One can find similar devices on the used market from time to time,
made for folks who are visually-impaired. My late wife left me one,
but it's up in Canada. I hope to retrieve it this coming summer.

--
"The problem with defending the purity of the English language is that
English is about as pure as a cribhouse whore. We don't just borrow words; on
occasion, English has pursued other languages down alleyways to beat them
unconscious and rifle their pockets for new vocabulary." -- James D. Nicoll

From -1131087625173958665
X-Google-Thread: fc2a5,651da1a29668083a,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s34g2000cwa.googlegroups.com!not-for-mail
From: "gpatterson53@hotmail.com" <gpatterson53@hotmail.com>

```
Newsgroups: rec.radio.amateur.homebrew
Subject: HW-22A  june 1971 QST
Date: 8 Jan 2007 12:47:03 -0800
Organization: http://groups.google.com
Lines: 4
Message-ID: <1168289222.687999.275220@s34g2000cwa.googlegroups.com>
NNTP-Posting-Host: 141.156.72.119
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1168289230 23015 127.0.0.1 (8 Jan 2007 20:47:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 8 Jan 2007 20:47:10 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.0),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s34g2000cwa.googlegroups.com; posting-host=141.156.72.119;
   posting-account=XiY9DgwAAAB3qoqsXLYUQi2ArNSVsIwB
Xref: g2news2.google.com rec.radio.amateur.homebrew:8587

Restoring an HW-22A and am looking for article in june 71 qst about
extending its frequency coverage.  Can anyone send me the article?  tnx
 73   Gary  W4AF  gpatterson53@hotmail.com




From -8684548962677647238
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!bcklog2.nntp.dca.giganews.com!
nntp.eclipse.net.uk!news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Jan 2007 15:29:42 -0600
Message-ID: <Gql0+yW5ZroFFANO@ifwtech.co.uk>
Date: Mon, 8 Jan 2007 21:24:09 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS kit
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
 <x0Rnj9Q$H$kFFArr@ifwtech.co.uk>
 <gkUkh.12641$641.9012@bignews4.bellsouth.net>
 <feKdnfoy6rKKsgLYnZ2dnUVZ_r2onZ2d@neonova.net>
 <nX5kUvGeh2nFFAi3@ifwtech.co.uk>
 <FF_nh.24242$cB6.1283@bignews7.bellsouth.net>
 <Iv-dnee1n7VXSjzYnZ2dnUVZ_orinZ2d@neonova.net>
 <D6+1K0EX9foFFAMT@ifwtech.co.uk>
 <cdKdnR5wOJ6BOj_YnZ2dnUVZ_vCknZ2d@neonova.net>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<5mwkzTBRO5sETFKkGhyHHc+YXH>)
```

Lines: 23
NNTP-Posting-Host: 82.153.8.81
X-Trace: sv3-1Rpaf9JSdYGfsSMXTgnnR8TFAJ3Wvv1r3tTYQu9EcyYnAOGnnWrAaUdASGJHyEt/
DKN71pCz/Wr7u2p!0m3mh/
db2DHXSyPDqeId6GEPJfoNc1hjUOoRkbCOfEKjrm1+MYGKQobFiA69sgTNA+FS5u8=
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8588

Jim Barber wrote:
>Now that has potential:
>
>By pure coincidence, I already have a Sony HDR-SR1 high-def (1080i)
>camcorder and a 21" 16:9 LCD display with HDMI input in the lab.
>
>Putting those two devices together and adding an appropriate macro lens
>would seem to be a natural thing for this kind of work.
>
>Great idea, Ian!

Not my own idea, but a friend's. He particularly likes having the camera
a long way above the work, so the area in front of him is completely
clear.

Come to think, my dentist has very a similar system as part of his fancy
new workstation, which is styled like the bridge of the Starship
Enterprise.

--
73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From 1370867651106331989
X-Google-Thread: fc2a5,313a68777e8a6cb4,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.phx!newsfe14.phx.POSTED!53ab2750!not-for-mail
From: "Caveat Lector" <CL@nowhere.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FYI: Online datasheets source
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028

Message-ID: <U0Boh.38170$lD5.11498@newsfe14.phx>
Date: Mon, 8 Jan 2007 16:07:16 -0800
NNTP-Posting-Host: 72.197.12.245
X-Complaints-To: admin@cox.net
X-Trace: newsfe14.phx 1168301236 72.197.12.245 (Mon, 08 Jan 2007 17:07:16 MST)
NNTP-Posting-Date: Mon, 08 Jan 2007 17:07:16 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:8589

In case you haven't seen it

DatasheetCatalog.com is free an online datasheet source for electronic
components and semiconductors from several manufacturers

http://www.datasheetcatalog.com/

73 CL

From -1485623286203319861
X-Google-Thread: fc2a5,21ca38c0eb259bc3,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!q40g2000cwq.googlegroups.com!not-for-mail
From: "Joe" <nuisancewildlife@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Wireless Video Transmission--Thanks
Date: 8 Jan 2007 16:12:19 -0800
Organization: http://groups.google.com
Lines: 13
Message-ID: <1168301539.353413.41190@q40g2000cwq.googlegroups.com>
NNTP-Posting-Host: 71.174.178.161
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1168301552 21185 127.0.0.1 (9 Jan 2007 00:12:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 9 Jan 2007 00:12:32 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q40g2000cwq.googlegroups.com; posting-host=71.174.178.161;
   posting-account=fRO72A0AAAAx72wd1k0VmvsrUHv_TX3P
Xref: g2news2.google.com rec.radio.amateur.homebrew:8590

I wish to extend my thanks to all who helped me with my question on
wireless video transmission for my project.

Besides the replies I received on this forum, I also received a number
of private email replies which gave me links to vendors, homebrew

sites, etc.

I now have a lot of 'absorbing' to do, so I will go about it.

Thank you all again,

Joe

From -7693747021148737184
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.deskmedia.com!
news.deskmedia.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Jan 2007 20:18:59 -0600
Reply-To: "JIM" <cjjimmie@yahoo.com>
From: "JIM" <cjjimmie@yahoo.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net>
<1167947398.716142.219360@v33g2000cwv.googlegroups.com>
Subject: Re: Do no-code hams wipe their butts?
Date: Mon, 8 Jan 2007 20:18:42 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <QbednQam5MMOZj_YnZ2dnUVZ_oipnZ2d@deskmedia.com>
Lines: 53
NNTP-Posting-Host: 63.168.115.135
X-Trace: sv3-miQUWicnYW/e4XsBa88bTeyoqSYrFabUDmEGWoVEKX51O9bmyc97JM8+E8E/
wcg1VrVt0lBefQA/hHx!BMgnuNVn/awSoil5eAjHAq0HSE/ut299SONYU+lrMPHcGlu14r1RUlAF2/
zL36aHwZjRLE2ZMLkp!xfKd4rUvchWSJImYmOc=
X-Complaints-To: abuse@deskmedia.com
X-DMCA-Complaints-To: abuse@deskmedia.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7077
rec.radio.amateur.homebrew:8591 rec.radio.amateur.policy:61398
rec.radio.scanner:8479

"ablebravo" <aburnham@triad.rr.com> wrote in message

news:1167947398.716142.219360@v33g2000cwv.googlegroups.com...
> QRT
> you are QRM
>
> Slow Code wrote:
>> If they're to lazy to learn CW for good radio skills, they might be too
>> lazy to use toilet paper for good hygiene.
>>
>> SC
>

I see there will always be those people that can predict the future. The No Code is just going to bring in Bank Robbers, Rapist, and thieves, Murder's. Wife beater's, And the MOB.

Come on grow up children. You learned the Code and that's just Great, but do you really really have to pick on those that didn't have too..... like they should be lower than life and feel dirtier then a used pair of underwear. You are not showing your Intelligent as little people. When you could be there to help them feel like they had joined up with a great bunch of people. What are you a big bunch of Whiners. Your sounding more like your mad you had to learn it,and your pi$$ed off that they didn't. You don't own the Hobby of Ham Radio!!!!!!!!!!!!!!!!! Your suppose to be the best part Of it. Not the worst part... Get a life your acting like it will be the end of the world.

Get involved in a real cause ,like people trying to take away your right's. Like the right to bear Arm's, and the right to live in a good and just community. And not one riddled with crime, and Murder. These are just good people wanting to talk on the Ham Band's.   Not everybody wants to be a Radio operator. The people that will come into Ham Radio will be people that enjoy talking on the Radio, and if they don't they'll leave and go on to newer and different thing's... Your just trying to be a group of elitist... You don't OWN HAM   RADIO PERIOD!!!!!!! Get over it Grow up and get a life. Do something get along for once. You don't have some big CLICK going on here. Anybody that can pass the test's is an OPERATOR!!!!

Tough Crap. It's a License to operate on Ham Band's. The same as it is to have a Driver's license to drive on the Highway's. You don't have a say in it. It's ran by the Government and that's that. Your just not going to be SPECIAL ANY MORE AND YOUR CRYING ABOUT........... STINKEN WHINER'S. What do you get if you put a Whiner on one end of a Teeter   Totter and a Queer on the other....... NOTHING !!!! Nothing neither one knows when to SHUT UP...

Thank You for letting me say my peace.   I know there a Great Hammer's out there. And you just don't hear them Bitching all the time.

I LOVE ROCK & ROLL. AND beautiful FAST woman Too.. HHHAAAAA   HAAAA You got to love it.. It's called LIFE.

Jimmie

```
From 4593793163575814578
X-Google-Thread: fc2a5,d2e0b6dcca7d384f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!sn-xt-sjc-05!sn-xt-sjc-06!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Schedule 40 PVC
Date: Mon, 08 Jan 2007 18:42:33 -0800
Organization: EZNEC Antenna Software
Message-ID: <12q608up4e2l9d9@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
References: <fVynh.1978$A8.1052@news-server.bigpond.net.au>
<1168033004.985799.300470@51g2000cwl.googlegroups.com> <9oHnh.2272$A8.1519@news-
server.bigpond.net.au>
In-Reply-To: <9oHnh.2272$A8.1519@news-server.bigpond.net.au>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 11
Xref: g2news2.google.com rec.radio.amateur.homebrew:8592

HH wrote:
> Been there and done that, and I didn't find the page you found, thank you
> all for your help.
> I really appreciate it!

You might try venturing out to your local hardware, plumbing, or DIY
store with a ruler. It's less convenient than surfing the Internet, but
there's no problem with finding the right URL. All you have to find is
the pipe.

Roy Lewallen, W7EL


From 4529940442801904285
X-Google-Thread: fc2a5,6e7bd3994f9a1b24
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.velocitywest.net!
news.velocitywest.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Jan 2007 20:55:28 -0600
Date: Mon, 08 Jan 2007 19:55:29 -0700
From: "H. P. Friedrichs" <nospam@please.com>
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.13) Gecko/20060414
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Your Favorite QRP Sites, please
References: <NoKdnXejJJ7f7T_YnZ2dnUVZ_ternZ2d@got.net>
```

```
In-Reply-To: <NoKdnXejJJ7f7T_YnZ2dnUVZ_ternZ2d@got.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <4audneN6YN29mT7YnZ2dnUVZ_uzinZ2d@velocitywest.net>
Lines: 25
NNTP-Posting-Host: 216.183.70.9
X-Trace: sv3-19nV7cyeFjYlWxzOO6hLdar6EhayFnmsBJEptgH/
Z7D0MNk3hddRdM3k10KeBIwDNs5hnMT7ncH1CPa!
hER8iowhXn4UGbbGk4yA+oCplTQBB+YuMuSM9KtW+uk1xpfH8tcZmyGxa1tarBCuk8+WH6C/3kei!
gJ0Nn6MMWYas/r5KCph65Rs4
X-Complaints-To: abuse@velocitywest.net
X-DMCA-Complaints-To: abuse@velocitywest.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8593

I describe how I got my license and how I learned Morse here:

http://www.hpfriedrichs.com/rr-mylicense.htm

Pete
AC7ZL

Joaquin Tall wrote:
> Hello All,
>
> I am soon to take my "tech" license test and would very much like my
> first contact to be QRP. I know that CW is not a favorite topic of
> conversation on most amateur radio newsgroups/message boards, but I find
> it a fascinating mode and am eager to learn it and master it.
>
> At 60 years of age, it has been a challenge to master the little that I
> have learned.
>
> Can you please post your favorite QRP/CW tutorial sites to assist me?
> I'm also looking for recommendations for a first QRP rig, new or
> previously owned.
>
> Many thanks for taking the time to respond!
>
> Alain


From 4873737403651477521
X-Google-Thread: fc2a5,106b259178bf17bd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog2.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 08 Jan 2007 21:13:56 -0600
```

From: "Tom Coates" <tecoatesHatesSpam@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1166888452.256055.166010@48g2000cwx.googlegroups.com>
Subject: Re: Ideal ham receiver
Date: Mon, 8 Jan 2007 22:09:30 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <Ou6dnbH2vubplT7YnZ2dnUVZ_qOpnZ2d@comcast.com>
Lines: 24
NNTP-Posting-Host: 69.251.161.44
X-Trace: sv3-YEjK/Um7+j1zQS44an2bM0rgMd020aaRte79WQZ1pW/Z8NCG/lf6PnB/
gcPy764ab0VEBiNxj0BUX6C!
G5uzvJKJoBgFebrG5IWGdkuazHSmGRTnU4cim69VmF7tg2wFuIxueW9D7lZ6tyf6jHiwT5dY/HNG!
k2U4ghWGaTeMAw==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8594

http://www.shelbrook.com/~ve7ca/Hbr200.htm

Tom

<jimspeer@jimspeer.org> wrote in message
news:1166888452.256055.166010@48g2000cwx.googlegroups.com...
> I don't much like the receivers I've used in contemporary tranceivers
> -- the general coverage synthisized open front end ones. (I hasten to
> add I haven't used any of the $4000 rigs; can't afford them). But the
> ones I have used seem plagued with near-signal desensitization, front
> end overload, etc., and I suppose all that comes from putting the
> selectivity so far downstream.
>
> I'm almost tempted to get an old 75s4 and shut up, but I really don't
> need another room heater, so, instead, I'm thinking of building my own
> receiver along the lines laid down by the late Doug DeMaw in his _QRP
> Notebook_. Single conversion 160m superhet with Collins mechanical
> filters in the IF and a series of down-converters for the other bands.
> Anybody got any experience with the DeMaw Design?
>
> Jim, K5YUT
>

From -5952398469700964650
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59

X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 09 Jan 2007 00:28:50 -0600
From: "John Doe" <hgorden@adelphia.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net>
<1167947398.716142.219360@v33g2000cwv.googlegroups.com>
<QbednQam5MMOZj_YnZ2dnUVZ_oipnZ2d@deskmedia.com>
Subject: Re: Do no-code hams wipe their butts?
Date: Tue, 9 Jan 2007 01:28:53 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <2MSdnX_-y4K_qz7YnZ2dnUVZ_r2onZ2d@adelphia.com>
Lines: 58
NNTP-Posting-Host: 69.162.152.98
X-Trace: sv3-X8Rl/+e/JQBWzQ8u+Smuk6kbF4BwcPVQT/fzHmCkQIY/
l+R3f7xSb7mKdQhcpdIfciJ3+YxfQvL9L46!4MYSwAOiEwnrQHc5LFflQ1R/WA5rox/ibi2uOm/
XVrRAQqXWbwRnEG2H6styiUOmur0QZ3viANGK!5shzyHVYLnM5JxPKdKwu7+MVD3HK
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7082
rec.radio.amateur.homebrew:8595 rec.radio.amateur.policy:61427
rec.radio.scanner:8480

Hey the CODE is dead - why don't you get off of this subject?

"JIM" <cjjimmie@yahoo.com> wrote in message
news:QbednQam5MMOZj_YnZ2dnUVZ_oipnZ2d@deskmedia.com...
>
> "ablebravo" <aburnham@triad.rr.com> wrote in message
> news:1167947398.716142.219360@v33g2000cwv.googlegroups.com...
>> QRT
>> you are QRM
>>
>> Slow Code wrote:
>>> If they're to lazy to learn CW for good radio skills, they might be too
>>> lazy to use toilet paper for good hygiene.
>>>
>>> SC

```
>>
>
> I see there will always be those people that can predict the future. The
> No Code is just going to bring in Bank Robbers, Rapist, and thieves,
> Murder's. Wife beater's, And the MOB.
> Come on grow up children. You learned the Code and that's just Great, but
> do you really really have to pick on those that didn't have too..... like
> they should be lower than life and feel dirtier then a used pair of
> underwear. You are not showing your Intelligent as little people. When you
> could be there to help them feel like they had joined up with a great
> bunch of people. What are you a big bunch of Whiners. Your sounding more
> like your mad you had to learn it,and your  pi$$ed off that they didn't.
> You don't own the Hobby of Ham Radio!!!!!!!!!!!!!!!!! Your suppose to be
> the best part Of it. Not the worst part... Get a life your acting like it
> will be the end of the world.
> Get involved in a real cause ,like people trying to take away your
> right's. Like the right to bear Arm's, and the right to live in a good and
> just community. And not one riddled with crime, and Murder. These are just
> good people wanting to talk on the Ham Band's.   Not everybody wants to be
> a Radio operator. The people that will come into Ham Radio will be people
> that enjoy talking on the Radio, and if they don't they'll leave and go on
> to newer and different thing's... Your just trying to be a group of
> elitist... You don't OWN  HAM   RADIO  PERIOD!!!!!!! Get over it Grow up
> and get a life. Do something get along for once. You don't have some big
> CLICK going on here. Anybody that can pass the test's is an  OPERATOR!!!!
>
> Tough  Crap. It's a License to operate on Ham Band's. The same as it is to
> have a Driver's license to drive on the Highway's. You don't have a say in
> it. It's ran by the Government and that's that. Your just not going to be
> SPECIAL  ANY MORE AND YOUR CRYING ABOUT...........  STINKEN WHINER'S.
> What do you get if you put a Whiner on one end of a Teeter   Totter  and a
> Queer on the other....... NOTHING !!!!  Nothing neither one knows when to
> SHUT UP...
>
> Thank You for letting me say my peace.   I know there a Great Hammer's out
> there. And you just don't hear them Bitching all the time.
> I  LOVE ROCK & ROLL. AND beautiful FAST woman Too.. HHHAAAAA   HAAAA You
> got to love it.. It's called LIFE.
>
> Jimmie
>




From -7079224267185270512
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!nntpserver.com!
```

```
zeus.nntpserver.com!10.1.1.50.MISMATCH!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
Subject: Re: Do procode hams wipe their butts?
Date: Tue, 09 Jan 2007 01:35:20 -0500
Message-ID: <kqd6q2dpeqtjidr8en6m9q696e6ncfem0u@4ax.com>
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net>
<1167947398.716142.219360@v33g2000cwv.googlegroups.com>
<QbednQam5MMOZj_YnZ2dnUVZ_oipnZ2d@deskmedia.com> <2MSdnX_-
y4K_qz7YnZ2dnUVZ_r2onZ2d@adelphia.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 12
NNTP-Posting-Date: 09 Jan 2007 05:41:09 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7083
rec.radio.amateur.homebrew:8596 rec.radio.amateur.policy:61428
rec.radio.scanner:8481

On Tue, 9 Jan 2007 01:28:53 -0500, "John Doe" <hgorden@adelphia.net>
wrote:

>Hey the CODE is dead - why don't you get off of this subject?
>

it is isn't dead till the FCC drives in the stake t, that is to say
when the R&O is published in ffed reg and comes into effect

although indeed I do occiacaly hear the fat lady warming for the final
ditdahs on that score
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From -7228207315889763994
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Subject: Re: Do procode hams wipe their butts?
From: "U-Know-Who" <no-one@nowhere.com>
Date: Tue, 9 Jan 2007 08:18:13 -0600
Message-ID: <1168352371_5409@sp6iad.superfeed.net>
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net>
```

<1167947398.716142.219360@v33g2000cwv.googlegroups.com>
<QbednQam5MMOZj_YnZ2dnUVZ_oipnZ2d@deskmedia.com> <2MSdnX_-y4K_qz7YnZ2dnUVZ_r2onZ2d@adelphia.com>
<kqd6q2dpeqtjidr8en6m9q696e6ncfem0u@4ax.com>
Lines: 19
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!news-out.spamkiller.net!sp6iad.superfeed.net!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.scanner
X-Proxy-User: $$esx7nrl_e-
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Report: Please report illegal or inappropriate use to <abuse@newsfeeds.com>. Forward a copy of ALL headers INCLUDING the body. (DO NOT SEND ATTACHMENTS)
X-Comments2: IMPORTANT: Newsfeeds.com does not condone,support,nor tolerate spam or any illegal or copyrighted postings.
X-Comments: This message was posted through Newsfeeds.com
Organization: Superfeed.net
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7088 rec.radio.amateur.homebrew:8597 rec.radio.amateur.policy:61438 rec.radio.scanner:8483

<Mark@kb9rqz.aprs> wrote in message news:kqd6q2dpeqtjidr8en6m9q696e6ncfem0u@4ax.com...
> On Tue, 9 Jan 2007 01:28:53 -0500, "John Doe" <hgorden@adelphia.net>
> wrote:
>
>>Hey the CODE is dead - why don't you get off of this subject?
>>
>
> it is isn't dead till the FCC drives in the stake t, that is to say
> when the R&O is published in ffed reg and comes into effect
>
> although indeed I do occiacaly hear the fat lady warming for the final
> ditdahs on that score

I bet you already hooked up a long wire to your Space-Patrol walkie talkie, didn't ya?

Posted Via Usenet.com Premium Usenet Newsgroup Services

** SPEED ** RETENTION ** COMPLETION ** ANONYMITY **
----
http://www.usenet.com

From 2950020268010311964
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!
newscon05.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr11.news.prodigy.net.POSTED!00eff025!not-for-mail
From: Cecil Moore <mycall@hotmail.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
Subject: Re: Do no-code hams wipe their butts?
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net>
<1167947398.716142.219360@v33g2000cwv.googlegroups.com>
<QbednQam5MMOZj_YnZ2dnUVZ_oipnZ2d@deskmedia.com> <2MSdnX_-
y4K_qz7YnZ2dnUVZ_r2onZ2d@adelphia.com>
In-Reply-To: <2MSdnX_-y4K_qz7YnZ2dnUVZ_r2onZ2d@adelphia.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 7
Message-ID: <OFNoh.30321$hI.10074@newssvr11.news.prodigy.net>
NNTP-Posting-Host: 70.136.53.138
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr11.news.prodigy.net 1168353006 ST000 70.136.53.138 (Tue, 09 Jan
2007 09:30:06 EST)
NNTP-Posting-Date: Tue, 09 Jan 2007 09:30:06 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
Q[RGWUSOQBPSCFD[LZKJOPHAWB\^PBQLGPQRJRQIMASJETAANVW[AKWZE\]^XQWIGNE_[EBL@^_\^JOCQ^
RSNVLGTFTKHTXHHP[NB_C@\SD@EP_[KCXX__AGDDEKGFNB\ZOKLRNCY_CGG[RHT_UN@C_BSY\G__IJIX_
PLSA[CCFAULEY\FL\VLGANTQQ]FN
Date: Tue, 09 Jan 2007 14:30:06 GMT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7089
rec.radio.amateur.homebrew:8598 rec.radio.amateur.policy:61440
rec.radio.scanner:8484

John Doe wrote:
> Hey the CODE is dead - why don't you get off of this subject?

Code is presently alive and well on 40m with
a couple of dozen QSOs going on.
--
73, Cecil http://www.w5dxp.com

From -6040843537230470821
X-Google-Thread: fc8b1,152c6706d63b7f59

```
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
Subject: Re: Do procode hams wipe their butts?
Date: 9 Jan 2007 10:01:07 -0500
Organization: Former users of Netcom shell (1989-2000)
Lines: 11
Message-ID: <eo0anj$qtv$1@panix2.panix.com>
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net> <2MSdnX_-
y4K_qz7YnZ2dnUVZ_r2onZ2d@adelphia.com>
<kqd6q2dpeqtjidr8en6m9q696e6ncfem0u@4ax.com>
<1168352371_5409@sp6iad.superfeed.net>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1168354868 24419 166.84.1.2 (9 Jan 2007 15:01:08 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 9 Jan 2007 15:01:08 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7092
rec.radio.amateur.homebrew:8599 rec.radio.amateur.policy:61444
rec.radio.scanner:8485

U-Know-Who <no-one@nowhere.com> wrote:
>
>I bet you already hooked up a long wire to your Space-Patrol walkie talkie,
>didn't ya?

Hey, a couple years back I had a QSO with a guy using a 49 MHz
Teenage Mutant Ninja Turtle walkie talkie, recrystalled for 6M.
He was getting out pretty well too.
--scott
--
"C'est un Nagra.  C'est suisse, et tres, tres precis."


From -2690490281619449956
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!green.octanews.net!news-
out.octanews.net!mauve.octanews.net!198.186.190.95.MISMATCH!news-out.readnews.com!
postnews3.readnews.com!news.coretel.net!not-for-mail
From: "Radiosrfun" <Radiosrfun@radiosrfun.com>
Newsgroups:
```

```
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net> <2MSdnX_-
y4K_qz7YnZ2dnUVZ_r2onZ2d@adelphia.com>
<kqd6q2dpeqtjidr8en6m9q696e6ncfem0u@4ax.com>
<1168352371_5409@sp6iad.superfeed.net> <eo0anj$qtv$1@panix2.panix.com>
Subject: Re: Do procode hams wipe their butts?
Date: Tue, 9 Jan 2007 10:21:44 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Lines: 21
Message-ID: <45a3b2e7$0$15151$ecde5a14@news.coretel.net>
Organization: CoreTel
NNTP-Posting-Host: 0f3ba51b.news.coretel.net
X-Trace: DXC=hgdbG<3=fe=T00FJB=JPE5cYX6N<OEXQ;iU0n:hHN646YFmN`KY`Bd?
=[j[B>`Y9J0IMi[S9O_\N4
X-Complaints-To: abuse@coretel.net
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7093
rec.radio.amateur.homebrew:8600 rec.radio.amateur.policy:61446
rec.radio.scanner:8486

"Scott Dorsey" <kludge@panix.com> wrote in message
news:eo0anj$qtv$1@panix2.panix.com...
> U-Know-Who <no-one@nowhere.com> wrote:
>>
>>I bet you already hooked up a long wire to your Space-Patrol walkie
>>talkie,
>>didn't ya?
>
> Hey, a couple years back I had a QSO with a guy using a 49 MHz
> Teenage Mutant Ninja Turtle walkie talkie, recrystalled for 6M.
> He was getting out pretty well too.
> --scott


Somewhere in my papers - I have an article that came out specifically
dealing with taking a "Space Patrol" type walkie talkie and placing it on "6
meters" as a QRP rig. I bought a pair to do it - and things got hectic. That
became a back burner project. I still have the walkie talkies but have to
dig out the paperwork.




From -8244352843016625161
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!elnk-atl-nf1!newsfeed.earthlink.net!out02b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-
out.readnews.com!postnews3.readnews.com!news.coretel.net!not-for-mail
From: "Radiosrfun" <Radiosrfun@radiosrfun.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net>
<1167947398.716142.219360@v33g2000cwv.googlegroups.com>
<QbednQam5MMOZj_YnZ2dnUVZ_oipnZ2d@deskmedia.com> <2MSdnX_-
y4K_qz7YnZ2dnUVZ_r2onZ2d@adelphia.com>
<OFNoh.30321$hI.10074@newssvr11.news.prodigy.net>
Subject: Re: Do no-code hams wipe their butts?
Date: Tue, 9 Jan 2007 10:27:19 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Lines: 28
Message-ID: <45a3b435$0$15152$ecde5a14@news.coretel.net>
Organization: CoreTel
NNTP-Posting-Host: 0f3ba51b.news.coretel.net
X-Trace:
DXC=PPjKLQM3]O^^lh5DiH8dnScYX6N<OEXQ[iU0n:hHN64VZ=6:gfmDNdS=[j[B>`Y9JP[gLo4o:bh>Z
X-Complaints-To: abuse@coretel.net
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7094
rec.radio.amateur.homebrew:8601 rec.radio.amateur.policy:61447
rec.radio.scanner:8487
```

"Cecil Moore" <mycall@hotmail.com> wrote in message
news:OFNoh.30321$hI.10074@newssvr11.news.prodigy.net...

> John Doe wrote:
>> Hey the CODE is dead - why don't you get off of this subject?
>
> Code is presently alive and well on 40m with
> a couple of dozen QSOs going on.
> --
> 73, Cecil http://www.w5dxp.com

Cecil,

Code "isn't" dead "completely", I think we all know that. I believe I am
safe in saying that what this guy was getting to was - SC's vigilance to
keep insulting No Code Hams OR Ham want to bes. There really IS no reason to
keep that up. There is nothing we can do to bring it back - the decision has
been made - whether we like it or not. Insults can only help "kill" the
hobby.

I've said it before, I'll say it again - if you like it - USE IT. If not -
so what!

The horse has been beaten to death - past death, now into the dust. Give it
a break. I've blocked all that have supported "his" stupid remarks and
argument. It has been going on for at least 6 months. IT IS OVER!

From -2078955353353321514
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
newsfeed2.dallas1.level3.net!news.level3.com!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
Subject: Re: Do procode hams wipe their butts?
Date: 9 Jan 2007 11:05:55 -0500
Organization: Former users of Netcom shell (1989-2000)
Lines: 30
Message-ID: <eo0eh3$hv0$1@panix2.panix.com>
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net>
<1168352371_5409@sp6iad.superfeed.net> <eo0anj$qtv$1@panix2.panix.com>
<45a3b2e7$0$15151$ecde5a14@news.coretel.net>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1168358755 24340 166.84.1.2 (9 Jan 2007 16:05:55 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 9 Jan 2007 16:05:55 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7096
rec.radio.amateur.homebrew:8602 rec.radio.amateur.policy:61452
rec.radio.scanner:8489

Radiosrfun <Radiosrfun@radiosrfun.com> wrote:
>"Scott Dorsey" <kludge@panix.com> wrote in message
>> U-Know-Who <no-one@nowhere.com> wrote:
>>>
>>>I bet you already hooked up a long wire to your Space-Patrol walkie
>>>talkie,
>>>didn't ya?
>>
>> Hey, a couple years back I had a QSO with a guy using a 49 MHz
>> Teenage Mutant Ninja Turtle walkie talkie, recrystalled for 6M.
>> He was getting out pretty well too.
>
>
>Somewhere in my papers - I have an article that came out specifically
>dealing with taking a "Space Patrol" type walkie talkie and placing it on "6

>meters" as a QRP rig. I bought a pair to do it - and things got hectic. That
>became a back burner project. I still have the walkie talkies but have to
>dig out the paperwork.

It shouldn't be that big a deal.. I know a lot of the newer ones are basically
one IC with a crystal for the transmitter and an RC tank for the receive, so
you'd have only two things to change.

"Space Patrol" looks good on a QSL card equipment line, but not as good
as "Teenage Mutant Ninja Turtles."
--scott

--
"C'est un Nagra. C'est suisse, et tres, tres precis."

From 1662468746680408827
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news2.google.com!news.maxwell.syr.edu!sn-xt-sjc-05!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: Lawrence Statton XE2/N1GAK <yankeeinexile@gmail.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.scanner
Subject: Re: Do procode hams wipe their butts?
Date: 09 Jan 2007 11:06:16 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <87r6u49lkn.fsf@gmail.com>
Sender: lawrence@hummer
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net> <2MSdnX_-y4K_qz7YnZ2dnUVZ_r2onZ2d@adelphia.com>
<kqd6q2dpeqtjidr8en6m9q696e6ncfem0u@4ax.com>
<1168352371_5409@sp6iad.superfeed.net> <eo0anj$qtv$1@panix2.panix.com>
<45a3b2e7$0$15151$ecde5a14@news.coretel.net>
User-Agent: Gnus/5.09 (Gnus v5.9.0) Emacs/21.1
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
X-Complaints-To: abuse@supernews.com
Lines: 25
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7098
rec.radio.amateur.homebrew:8603 rec.radio.amateur.policy:61457
rec.radio.scanner:8490

"Radiosrfun" <Radiosrfun@radiosrfun.com> writes:
>
> Somewhere in my papers - I have an article that came out specifically

> dealing with taking a "Space Patrol" type walkie talkie and placing it on "6
> meters" as a QRP rig. I bought a pair to do it - and things got hectic. That
> became a back burner project. I still have the walkie talkies but have to
> dig out the paperwork.
>

There was a group of us back in Boston in the late 80s doing that a lot ... we had a big bin of the xtals, and were tuning them up for a local 6m repeater.

I also had a simplex pair that I used to build a fun 2400 bps packet rig.

Imminently hackable, and amazingly cheap.

Good memories.

--
Lawrence Statton - lawrenabae@abaluon.abaom s/aba/c/g
Computer software consists of only two components: ones and zeros, in roughly equal proportions. All that is required is to sort them into the correct order.

From -8907536963894788868
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!news.glorb.com!
nntpserver.com!zeus.nntpserver.com!10.1.1.50.MISMATCH!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
Subject: Re: Do procode hams wipe their butts?
Date: Tue, 09 Jan 2007 12:35:10 -0500
Message-ID: <jfk7q25i3h1fnajt3opfj84iop5ku68jmq@4ax.com>
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net>
<1167947398.716142.219360@v33g2000cwv.googlegroups.com>
<QbednQam5MMOZj_YnZ2dnUVZ_oipnZ2d@deskmedia.com> <2MSdnX_-
y4K_qz7YnZ2dnUVZ_r2onZ2d@adelphia.com>
<kqd6q2dpeqtjidr8en6m9q696e6ncfem0u@4ax.com>
<1168352371_5409@sp6iad.superfeed.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 25
NNTP-Posting-Date: 09 Jan 2007 16:40:58 GMT
X-Complaints-To: abuse@teranews.com

```
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7100
rec.radio.amateur.homebrew:8604 rec.radio.amateur.policy:61465
rec.radio.scanner:8491

On Tue, 9 Jan 2007 08:18:13 -0600, "U-Know-Who" <no-one@nowhere.com>
wrote:

>
><Mark@kb9rqz.aprs> wrote in message
>news:kqd6q2dpeqtjidr8en6m9q696e6ncfem0u@4ax.com...
>> On Tue, 9 Jan 2007 01:28:53 -0500, "John Doe" <hgorden@adelphia.net>
>> wrote:
>>
>>>Hey the CODE is dead - why don't you get off of this subject?
>>>
>>
>> it is isn't dead till the FCC drives in the stake t, that is to say
>> when the R&O is published in ffed reg and comes into effect
>>
>> although indeed I do occiacaly hear the fat lady warming for the final
>> ditdahs on that score
>
>I bet you already hooked up a long wire to your Space-Patrol walkie talkie,
>didn't ya?

I have no such radio I have a Ft 847 I have up a 10 metter anntena
right right since I had it to hand and have assemebled the materail
for a full sized 160m diploe but given our weather round I am waiting
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From -1235105252441911093
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-xxxfer.readnews.com!news-out.readnews.com!
postnews3.readnews.com!news.coretel.net!not-for-mail
From: "Radiosrfun" <Radiosrfun@radiosrfun.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net> <2MSdnX_-
y4K_qz7YnZ2dnUVZ_r2onZ2d@adelphia.com>
<kqd6q2dpeqtjidr8en6m9q696e6ncfem0u@4ax.com>
```

```
<1168352371_5409@sp6iad.superfeed.net> <eo0anj$qtv$1@panix2.panix.com>
<45a3b2e7$0$15151$ecde5a14@news.coretel.net> <87r6u49lkn.fsf@gmail.com>
Subject: Re: Do procode hams wipe their butts?
Date: Tue, 9 Jan 2007 12:56:42 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Lines: 35
Message-ID: <45a3d739$0$15160$ecde5a14@news.coretel.net>
Organization: CoreTel
NNTP-Posting-Host: 67e4704b.news.coretel.net
X-Trace:
DXC=4EZI3h3o5XW=60^_1H1ZoWcYX6N<OEXQ[iU0n:hHN64VE:O30jV4E<U_ibMN3@N`AU0>d5g6IR_o]
X-Complaints-To: abuse@coretel.net
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7101
rec.radio.amateur.homebrew:8605 rec.radio.amateur.policy:61471
rec.radio.scanner:8492

"Lawrence Statton XE2/N1GAK" <yankeeinexile@gmail.com> wrote in message
news:87r6u49lkn.fsf@gmail.com...
> "Radiosrfun" <Radiosrfun@radiosrfun.com> writes:
>>
>> Somewhere in my papers - I have an article that came out specifically
>> dealing with taking a "Space Patrol" type walkie talkie and placing it on
>> "6
>> meters" as a QRP rig. I bought a pair to do it - and things got hectic.
>> That
>> became a back burner project. I still have the walkie talkies but have to
>> dig out the paperwork.
>>
>
> There was a group of us back in Boston in the late 80s doing that a
> lot ... we had a big bin of the xtals, and were tuning them up for a
> local 6m repeater.
>
> I also had a simplex pair that I used to build a fun 2400 bps packet
> rig.
>
> Imminently hackable, and amazingly cheap.
>
> Good memories.
>
> --
> Lawrence Statton - lawrenabae@abaluon.abaom s/aba/c/g
> Computer  software  consists of  only  two  components: ones  and
> zeros, in roughly equal proportions.   All that is required is to
> sort them into the correct order.

Yeah - the biggest deal of it was changing the crystal. I think the coils
and so on - were pretty much there within reason to oscillate. Been a while
since I read the article though.
```

```
From 1821539982321325220
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.phx!newsfe15.phx.POSTED!53ab2750!not-for-mail
From: "Caveat Lector" <CL@nowhere.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net> <2MSdnX_-
y4K_qz7YnZ2dnUVZ_r2onZ2d@adelphia.com>
<kqd6q2dpeqtjidr8en6m9q696e6ncfem0u@4ax.com>
<1168352371_5409@sp6iad.superfeed.net> <eo0anj$qtv$1@panix2.panix.com>
<45a3b2e7$0$15151$ecde5a14@news.coretel.net> <87r6u49lkn.fsf@gmail.com>
<45a3d739$0$15160$ecde5a14@news.coretel.net>
Subject: Re: Do procode hams wipe their butts?
Lines: 41
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <a3Roh.39612$9S6.6436@newsfe15.phx>
Date: Tue, 9 Jan 2007 10:21:58 -0800
NNTP-Posting-Host: 72.197.12.245
X-Complaints-To: admin@cox.net
X-Trace: newsfe15.phx 1168366918 72.197.12.245 (Tue, 09 Jan 2007 11:21:58 MST)
NNTP-Posting-Date: Tue, 09 Jan 2007 11:21:58 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7102
rec.radio.amateur.homebrew:8606 rec.radio.amateur.policy:61473
rec.radio.scanner:8494

Gee folks any chance of changing the subject title ??

"Radiosrfun" <Radiosrfun@radiosrfun.com> wrote in message
news:45a3d739$0$15160$ecde5a14@news.coretel.net...
> "Lawrence Statton XE2/N1GAK" <yankeeinexile@gmail.com> wrote in message
> news:87r6u49lkn.fsf@gmail.com...
>> "Radiosrfun" <Radiosrfun@radiosrfun.com> writes:
>>>
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```

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>>> to
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>>>
>>
>> There was a group of us back in Boston in the late 80s doing that a
>> lot ... we had a big bin of the xtals, and were tuning them up for a
>> local 6m repeater.
>>
>> I also had a simplex pair that I used to build a fun 2400 bps packet
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>>
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>>
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>>
>> --
>> Lawrence Statton - lawrenabae@abaluon.abaom s/aba/c/g
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>> zeros, in roughly equal proportions.   All that is required is to
>> sort them into the correct order.
>
> Yeah - the biggest deal of it was changing the crystal. I think the coils
> and so on - were pretty much there within reason to oscillate. Been a
> while since I read the article though.
>

From -9196336462405319183
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
newsfeed2.dallas1.level3.net!news.level3.com!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
Subject: Re: Do procode hams wipe their butts?
Date: 9 Jan 2007 13:24:56 -0500
Organization: Former users of Netcom shell (1989-2000)
Lines: 27
Message-ID: <eo0mlo$s2o$1@panix2.panix.com>
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net>
<eo0anj$qtv$1@panix2.panix.com> <45a3b2e7$0$15151$ecde5a14@news.coretel.net>

<87r6u49lkn.fsf@gmail.com>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1168367096 1334 166.84.1.2 (9 Jan 2007 18:24:56 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 9 Jan 2007 18:24:56 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7103
rec.radio.amateur.homebrew:8607 rec.radio.amateur.policy:61474
rec.radio.scanner:8495

Lawrence Statton XE2/N1GAK <yankeeinexile@gmail.com> wrote:

>There was a group of us back in Boston in the late 80s doing that a lot ... we had a big bin of the xtals, and were tuning them up for a local 6m repeater.
>
>I also had a simplex pair that I used to build a fun 2400 bps packet rig.

This brings to mind... the military has lots of those horrible little AN/PRT-4A transmitters selling dirt cheap on the surplus market. They are kind of neat because they have a 455 KHz oscillator to shift the frequency of the crystal up, allowing you to use the same crystal for the transmitter as you did for the (seperate) receiver.

NOBODY has documentation on these things. The LOGSA database has them still listed as unavailable except within the military. Does anyone have a schematic on these?

As I recall, these were issued in Vietnam for communication within units, but were mostly famous for drawing fire with their large antennae and for poor signal quality.
--scott

--
"C'est un Nagra. C'est suisse, et tres, tres precis."

From -4763812269768055653
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!198.186.194.247.MISMATCH!news-xxxfer.readnews.com!news-
out.readnews.com!postnews3.readnews.com!news.coretel.net!not-for-mail
From: "Radiosrfun" <Radiosrfun@radiosrfun.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner

References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net> <2MSdnX_-y4K_qz7YnZ2dnUVZ_r2onZ2d@adelphia.com>
<kqd6q2dpeqtjidr8en6m9q696e6ncfem0u@4ax.com>
<1168352371_5409@sp6iad.superfeed.net> <eo0anj$qtv$1@panix2.panix.com>
<45a3b2e7$0$15151$ecde5a14@news.coretel.net> <87r6u49lkn.fsf@gmail.com>
<45a3d739$0$15160$ecde5a14@news.coretel.net> <a3Roh.39612$9S6.6436@newsfe15.phx>
Subject: Re: Do procode hams wipe their butts?
Date: Tue, 9 Jan 2007 14:26:44 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Lines: 47
Message-ID: <45a3ec52$0$15159$ecde5a14@news.coretel.net>
Organization: CoreTel
NNTP-Posting-Host: 02852765.news.coretel.net
X-Trace: DXC=AQWRZPm7I^gA`2f?
T>kV^ecYX6N<OEXQkiU0n:hHN64fDIo2PRXLGje_ibMN3@N`AeAGUEKj^QX^f
X-Complaints-To: abuse@coretel.net
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7109
rec.radio.amateur.homebrew:8608 rec.radio.amateur.policy:61476
rec.radio.scanner:8496

Good question, I thought of that myself after I hit the send button!

"Caveat Lector" <CL@nowhere.com> wrote in message
news:a3Roh.39612$9S6.6436@newsfe15.phx...
> Gee folks any chance of changing the subject title ??
>
> "Radiosrfun" <Radiosrfun@radiosrfun.com> wrote in message
> news:45a3d739$0$15160$ecde5a14@news.coretel.net...
>> "Lawrence Statton XE2/N1GAK" <yankeeinexile@gmail.com> wrote in message
>> news:87r6u49lkn.fsf@gmail.com...
>>> "Radiosrfun" <Radiosrfun@radiosrfun.com> writes:
>>>>
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>>>
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>>>

```
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>>>
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>>>
>>> --
>>> Lawrence Statton - lawrenabae@abaluon.abaom s/aba/c/g
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>> while since I read the article though.
>>
>
>
```

```
From -7005556991483721792
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!news.glorb.com!
nntpserver.com!zeus.nntpserver.com!10.1.1.50.MISMATCH!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
Subject: Re: Do procode hams wipe their butts?
Date: Tue, 09 Jan 2007 14:55:33 -0500
Message-ID: <bos7q2t3g50s93eok1popek5dmvutgvf93@4ax.com>
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net> <2MSdnX_-
y4K_qz7YnZ2dnUVZ_r2onZ2d@adelphia.com>
<kqd6q2dpeqtjidr8en6m9q696e6ncfem0u@4ax.com>
<1168352371_5409@sp6iad.superfeed.net> <eo0anj$qtv$1@panix2.panix.com>
<45a3b2e7$0$15151$ecde5a14@news.coretel.net> <87r6u49lkn.fsf@gmail.com>
<45a3d739$0$15160$ecde5a14@news.coretel.net> <a3Roh.39612$9S6.6436@newsfe15.phx>
<45a3ec52$0$15159$ecde5a14@news.coretel.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 9
NNTP-Posting-Date: 09 Jan 2007 19:01:21 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7112
rec.radio.amateur.homebrew:8609 rec.radio.amateur.policy:61477
rec.radio.scanner:8498
```

On Tue, 9 Jan 2007 14:26:44 -0500, "Radiosrfun"
<Radiosrfun@radiosrfun.com> wrote:

>Good question, I thought of that myself after I hit the send button!
>

my own thoughts are since the thread started insulting nocoder and
turn about is fair play why not leave it
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

```
From 4235280138673219738
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!news.glorb.com!
nntpserver.com!zeus.nntpserver.com!10.1.1.50.MISMATCH!not-for-mail
From: "Mark@kb9rqz.aspr" <Mark@kp9rqz.asr>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net> <2MSdnX_-
y4K_qz7YnZ2dnUVZ_r2onZ2d@adelphia.com>
<kqd6q2dpeqtjidr8en6m9q696e6ncfem0u@4ax.com>
<1168352371_5409@sp6iad.superfeed.net> <eo0anj$qtv$1@panix2.panix.com>
<45a3b2e7$0$15151$ecde5a14@news.coretel.net> <87r6u49lkn.fsf@gmail.com>
<45a3d739$0$15160$ecde5a14@news.coretel.net> <a3Roh.39612$9S6.6436@newsfe15.phx>
Subject: I punce dowm procoders
Date: Tue, 9 Jan 2007 15:46:13 -0500
Organization: punce.org
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Lines: 8
Message-ID: <45a3f265$0$12059$88260bb3@free.teranews.com>
NNTP-Posting-Date: 09 Jan 2007 19:52:05 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7115
rec.radio.amateur.homebrew:8610 rec.radio.amateur.policy:61478
rec.radio.scanner:8499
```

"Caveat Lector" <CL@nowhere.com> wrote in message

news:a3Roh.39612$9S6.6436@newsfe15.phx...
> Gee folks any chance of changing the subject title ??
indeed hows this won?
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -3464848797018360062
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nntpserver.com!zeus.nntpserver.com!10.1.1.50.MISMATCH!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
Subject: do ProCoders wipe thier butts?
Date: Tue, 09 Jan 2007 15:52:06 -0500
Message-ID: <g208q2dta05unvhfs8kqomeaner65rh71k@4ax.com>
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net> <2MSdnX_-y4K_qz7YnZ2dnUVZ_r2onZ2d@adelphia.com>
<kqd6q2dpeqtjidr8en6m9q696e6ncfem0u@4ax.com>
<1168352371_5409@sp6iad.superfeed.net> <eo0anj$qtv$1@panix2.panix.com>
<45a3b2e7$0$15151$ecde5a14@news.coretel.net> <87r6u49lkn.fsf@gmail.com>
<45a3d739$0$15160$ecde5a14@news.coretel.net> <a3Roh.39612$9S6.6436@newsfe15.phx>
<45a3f265$0$12059$88260bb3@free.teranews.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 11
NNTP-Posting-Date: 09 Jan 2007 19:57:55 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7116
rec.radio.amateur.homebrew:8611 rec.radio.amateur.policy:61479
rec.radio.scanner:8500

On Tue, 9 Jan 2007 15:46:13 -0500, "Mark@kb9rqz.aspr"
<Mark@kp9rqz.asr> wrote:

>
>"Caveat Lector" <CL@nowhere.com> wrote in message
>news:a3Roh.39612$9S6.6436@newsfe15.phx...

>> Gee folks any chance of changing the subject title ??
>indeed hows this won?

woger you still aint me
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From 9008319304735990212
X-Google-Thread: fc2a5,dd74b72dddcdcfdb,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i39g2000hsf.googlegroups.com!not-for-mail
From: "bcdlr" <on30ng@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Ideal Ham Receiver (cont.)
Date: 9 Jan 2007 19:52:53 -0800
Organization: http://groups.google.com
Lines: 21
Message-ID: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
NNTP-Posting-Host: 74.135.146.232
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1168401180 19884 127.0.0.1 (10 Jan 2007 03:53:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 10 Jan 2007 03:53:00 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.9) Gecko/20061206 Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i39g2000hsf.googlegroups.com; posting-host=74.135.146.232;
   posting-account=cHaz4A0AAABSvgBXdvZeKRmzV_BI715_
Xref: g2news2.google.com rec.radio.amateur.homebrew:8612

Guys that was a great discussion...
But I still have a question or two. Well actually a lot more than that
but we can't answer them all.

I know I'm not ready to build my own receiver, unless I went the micro
R2 route (I'm going to build one some day).
But that still doesn't solve my need for a ham band(s) receiver - to
use as a receiver and as a necessary piece of test equipment.

I know that the Drake 2b is good. But how easy (and cheap) is it to get
one? Are most "wore" out?
I've heard that a common ailment is that the mechanical filter will be
screwed up.
What are some receivers to look for (don't say the Collins - I don't
have enough money)?

BTW, got the EMRFD for Christmas. I like reading it but I have a lot to learn...

Thanks,
Dan KB9JLO
<><

```
From -2639496897844993639
X-Google-Thread: fc2a5,dd74b72dddcdcfdb
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!77g2000hsv.googlegroups.com!not-for-
mail
From: jimspeer@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal Ham Receiver (cont.)
Date: 10 Jan 2007 05:14:32 -0800
Organization: http://groups.google.com
Lines: 20
Message-ID: <1168434872.438810.182530@77g2000hsv.googlegroups.com>
References: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
NNTP-Posting-Host: 68.118.125.120
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1168434874 31413 127.0.0.1 (10 Jan 2007 13:14:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 10 Jan 2007 13:14:34 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; Intel Mac OS X; en-US; rv:1.8.0.9)
Gecko/20061206 Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 77g2000hsv.googlegroups.com; posting-host=68.118.125.120;
   posting-account=rwyXdw0AAACYieKUujjEIpEMN0Rq8Rj2
Xref: g2news2.google.com rec.radio.amateur.homebrew:8613
```

bcdlr wrote:

> But that still doesn't solve my need for a ham band(s) receiver - to
> use as a receiver and as a necessary piece of test equipment.
> ---

And a related question: Folks made a lot of useful comments about hardware-defined receivers last round, but no one has mentioned software-defined ones. Are there any SDR's in existence that rival the best HDRs?

> I know that the Drake 2b is good.

Well, I used to have one and didn't think it was wonderful. The 4C is good, but now you're talking s-line money. Besides, as a lab instrument I'd have thought you'd want a receiver with accurate frequency read-out.

Cheers!
Jim, N5JRS (was K5YUT)

From -8930849595689734129
X-Google-Thread: fc2a5,dd74b72dddcdcfdb
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe05.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
Subject: Re: Ideal Ham Receiver (cont.)
Lines: 77
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <7U5ph.1$Y_3.0@newsfe05.lga>
X-Trace:
hikehalegljkcnnfkannfilpcpbbolnmceljmggkafdflomknicfceledepkikoolhlefpnpglhfdcnhdl
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NNTP-Posting-Date: Wed, 10 Jan 2007 06:30:43 MST
Date: Wed, 10 Jan 2007 08:30:38 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8614

"bcdlr" <on30ng@gmail.com> wrote in message
news:1168401169.336442.209860@i39g2000hsf.googlegroups.com...

> I know I'm not ready to build my own receiver, unless I went the micro
> R2 route (I'm going to build one some day).

You are never ready to build your own until you bite the bullet and do it

> But that still doesn't solve my need for a ham band(s) receiver - to
> use as a receiver and as a necessary piece of test equipment.

If you want to use the receiver as a piece of test equipment (and a decent receiver can be a really great piece of test equipment) then you want a modern, synthesized, solid-state receiver.

> I know that the Drake 2b is good. But how easy (and cheap) is it to get
> one? Are most "wore" out?

The 2B was a great rig in its time, but that was back in another century. Almost anything recent, even real junk, will be better, and a lot less hassle. Sorry to the guys who wax nostalgic about the old hollow state gear, but get something hollow state if you like to be constantly maintaining it, if you like drifty, unstable, etc. Compared to other stuff AT THE TIME, the Drake was great. But any modern rice box will run circles around it. And rigs from that time are now getting old enough that they will soon need a major overhaul. I you aren't ready to build an R2 then you certainly aren't ready to care for a geriatric radio.

> What are some receivers to look for (don't say the Collins - I don't
> have enough money)?

What do you want to do? If you are going to operate a lot of SSB, then a Collins mechanical filter is almost a requirement, although some of the more recent DSPs might be better they are a slightly different form of operation so I suspect it is a lot personal. If you intend to operate CW, PSK mostly, then the requirements are different.

If you want to use it as test gear, then you want 1) synthesized, 2) DC to daylight -- almost any modern rice box will fit this bill. If you want to use it on 75 meter phone, then you need brick wall filters or a very good DSP (or both). Most modern rigs are triple conversion, with a first IFin the 60 MHz region, second around 10, and third typically 455 kHz. If the receiver you pick isn't VERY recent, look for a rig with the filters in the 455 kHz IF, rather than the 10, and get the filters if you plan to operate on busy phone bands. Interestingly, CW is a lot less demanding, and the other digital modes even less so. The digital modes do require a lot of stability, but on modern rigs that is pretty much a given.

Because of competition, I think you will find a better deal in a transceiver than a receiver. Decent receivers are kind of a specialty item so they tend to be very expensive. Indeed, it seems like you have very low end stuff and very high end stuff, and not a lot in between. The kind of receiver you can buy new for a few hundred bucks isn't going to be useable on the ham bands. On the other hand, if you only want to know whether your homebrew oscillator is on the right planet, then a cheap, synthesized SWL radio will do the trick.

Used prices are really uneven. Some things you can do real well on (browse through the completed auctions on eBay to get a feel for prices), and others people seem to insist on getting new prices for old gear. If you do go with used, it may be the best thing to do is to pick something and get on eBay. The trouble with eBay is that there are enough people that are clueless that things often sell for well more than they are worth. But on the other hand, if you don't let yourself get sucked in, and you are patient, you can often do pretty well. Just be sure you know what you are willing to pay and don't go beyond that, and that you look forward to spending a month or two getting what you want. But real bargains are pretty rare anymore.

A few years ago I would have suggested a hamfest. But most of the hamfests have gotten a lot like eBay. There will be a wide selection at Dayton, but most will be either real junk or overpriced. I guess that is a difference; you don't see a huge amount of old junk on eBay, probably because of the cost and hassle of listing it. You see plenty at hamfests, though.

..

From 2451042517199819806
X-Google-Thread: fc2a5,dd74b72dddcdcfdb
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i39g2000hsf.googlegroups.com!not-for-mail
From: "Harry7" <cpa599@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal Ham Receiver (cont.)
Date: 10 Jan 2007 06:16:04 -0800
Organization: http://groups.google.com
Lines: 43
Message-ID: <1168438564.827675.118850@i39g2000hsf.googlegroups.com>
References: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
NNTP-Posting-Host: 72.240.49.66
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1168438566 7779 127.0.0.1 (10 Jan 2007 14:16:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 10 Jan 2007 14:16:06 +0000 (UTC)
In-Reply-To: <1168401169.336442.209860@i39g2000hsf.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i39g2000hsf.googlegroups.com; posting-host=72.240.49.66;
   posting-account=OlKERAwAAABbz2n2TtYzKRKhc1_XMW6k
Xref: g2news2.google.com rec.radio.amateur.homebrew:8615

bcdlr wrote:
> Guys that was a great discussion...
> But I still have a question or two. Well actually a lot more than that
> but we can't answer them all.
> ---
> I know I'm not ready to build my own receiver, unless I went the micro
> R2 route (I'm going to build one some day).
> But that still doesn't solve my need for a ham band(s) receiver - to
> use as a receiver and as a necessary piece of test equipment.
> ---
> I know that the Drake 2b is good. But how easy (and cheap) is it to get
> one? Are most "wore" out?
> I've heard that a common ailment is that the mechanical filter will be
> screwed up.

The 2B does not have a mechanical filter so no worries there.

I have a Drake R4A (next generation Drake after the 2B) & it is one of the best receivers I have ever owned [I've owned maybe 50+ medium & high end receivers (Collins, Hammarlund, National, Ten-tec, Yaesu, Kenwood, Swan, Elecraft, etc.) in nearly 50 years of hamming including many of the newer solid state variety].

My R4A doesn't drift (after warm up), excellent audio, pass band tuning, 4 stages of selectivity, AM & product detectors, excellent build quality, extremely reliable & much easier to work on than any of the newer solid state stuff. I paid $140 for mine & nice examples can be had for $150 - $250. The R4, R4A & R4B were similar design & were complete radios out of the box. I've had zero trouble with mine in eight years. The R4C went to crystal filters & is really a much different radio.

I would recommend the R4A's & R4B's as great radios that you will not be dissapointed with for the price.

Look for one that is crystalled up with extra SW freq's & has a clean copper chassis (they are proned to tarnish).

Terry
W8EJO

```
From -5091883461895663221
X-Google-Thread: fc2a5,1454424222061fe6,start
X-Google-Thread: fc8b1,1454424222061fe6,start
X-Google-Thread: 112d1e,1454424222061fe6,start
X-Google-Attributes: gidfc2a5,gidfc8b1,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k21g2000cwa.googlegroups.com!not-for-
mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.design
Subject: Squegging in LC oscillators
Date: 2 Jan 2007 07:55:29 -0800
Organization: http://groups.google.com
Lines: 49
Message-ID: <1167753329.259479.53680@k21g2000cwa.googlegroups.com>
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Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1167753334 14049 127.0.0.1 (2 Jan 2007 15:55:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 2 Jan 2007 15:55:34 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k21g2000cwa.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news2.google.com rec.radio.amateur.homebrew:8516
rec.radio.amateur.boatanchors:6938 sci.electronics.design:137834
```

I have been playing around with my homebrew VFO, a Hartley oscillator, with a tapped inductor in the tank.

Rough parameters: 6AH6 pentode for the VFO, tank resonant at 1.8Mc, plate circuit resonant at 3.6Mc. Rather low-Q plate tank (on purpose, I want it to cover 100kc or so). Tank tapped about 1/3 of the way from the bottom. 150V from an 0A2 on the screen, bypassed by a 0.005 uF ceramic with short leads at the screen.

While playing around with it I found this weird mode where it wouldn't necessarily start up in constant oscillation. It would repeatedly (30000 times a second) start up (starting up very quickly, in just a few cycles), grid and cathode circuit amplitude would build up to about 10V p-p, then the oscillations would slowly (over the next 30 microseconds) die down. Then it would repeat.

Hand capacitance near the grid or on the tank coil would often break it out of this mode and into more regular oscillation. Putting a 10x scope probe on the grid sometimes broke it out of this mode too.

What eventually made the circuit more reliable was putting a few hundred ohms in series with the grid. But I don't understand exactly how this helped.

My guess for this squegging mode is that the oscillator would suddenly start, the tank would ring, the tank would ring hard enough that grid current flowed, and that the grid current somehow would "latch" on until oscillation died out, then it would repeat.

Or, just maybe, it's more closely related to screen current and maybe some kind of oscillation of the 0A2 in the screen regulator. I tried changing the dropping resistor feeding the 0A2 and a couple different 0A2's but the squegging seemed relatively insensitive to it.

Trying some other pentodes that were not so "hot" (e.g. 6AU6, 6BA6) changed the squegging a little but it was still there.

My not-understood fix, putting a few hundred ohms in series with the grid, is something that I've often seen in real-world circuits. I think this is to provide some degeneration, and always was under the impression that the degeneration was intended to prevent oscillation in the VHF range. It is possible that the circuit was indeed oscillating at a few hundred Mc but my scope (100Mc bandwidth) didn't see it. And I don't know how a 200Mc parasitic might cause 30kc squegging.

Any thoughts?

Tim KA0BTD

From 3313006078110098492

X-Google-Thread: fc2a5,1454424222061fe6
X-Google-Thread: fc8b1,1454424222061fe6
X-Google-Thread: 112d1e,1454424222061fe6
X-Google-Attributes: gidfc2a5,gidfc8b1,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 02 Jan 2007 10:05:48 -0600
Date: Tue, 02 Jan 2007 11:13:50 -0500
From: John Popelish <jpopelish@rica.net>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.design
Subject: Re: Squegging in LC oscillators
References: <1167753329.259479.53680@k21g2000cwa.googlegroups.com>
In-Reply-To: <1167753329.259479.53680@k21g2000cwa.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <POqdncdqCbdBHwfYnZ2dnUVZ_tPinZ2d@comcast.com>
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NNTP-Posting-Host: 71.62.65.134
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mDvuPzGNxOTPC4eEe4cns6obhc5qKR6+iPAZEe8ZBY09JOKrXb3EQL75N03sxtXw19Xs+nvreWMx!YD/
9Lt85k3Ho
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8517
rec.radio.amateur.boatanchors:6939 sci.electronics.design:137841

Tim Shoppa wrote:
> I have been playing around with my homebrew VFO, a Hartley oscillator,
> with a tapped inductor in the tank.
>
> Rough parameters: 6AH6 pentode for the VFO, tank resonant at 1.8Mc,
> plate circuit resonant at 3.6Mc. Rather low-Q plate tank (on purpose, I
> want it to cover 100kc or so). Tank tapped about 1/3 of the way from
> the bottom. 150V from an 0A2 on the screen, bypassed by a 0.005 uF
> ceramic with short leads at the screen.
>
> While playing around with it I found this weird mode where it wouldn't
> necessarily start up in constant oscillation. It would repeatedly
> (30000 times a second) start up (starting up very quickly, in just a
> few cycles), grid and cathode circuit amplitude would build up to about
> 10V p-p, then the oscillations would slowly (over the next 30
> microseconds) die down. Then it would repeat.
>

> Hand capacitance near the grid or on the tank coil would often break it
> out of this mode and into more regular oscillation. Putting a 10x scope
> probe on the grid sometimes broke it out of this mode too.
>
> What eventually made the circuit more reliable was putting a few
> hundred ohms in series with the grid. But I don't understand exactly
> how this helped.
>
> My guess for this squegging mode is that the oscillator would suddenly
> start, the tank would ring, the tank would ring hard enough that grid
> current flowed, and that the grid current somehow would "latch" on
> until oscillation died out, then it would repeat.

(snip)

(my guess)
The grid acts as a rectifier that builds a DC grid bias
voltage from the rectified AC signal, biasing the tube off.
Then the tank dies a natural death. Adding the series
resistor reduced the efficiency of the rectification.

Sounds like you have too much positive feedback, to begin with.

From 2845171467794038899
X-Google-Thread: fc2a5,1454424222061fe6
X-Google-Thread: fc8b1,1454424222061fe6
X-Google-Thread: 112d1e,1454424222061fe6
X-Google-Attributes: gidfc2a5,gidfc8b1,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a3g2000cwd.googlegroups.com!not-for-mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.design
Subject: Re: Squegging in LC oscillators
Date: 2 Jan 2007 08:34:31 -0800
Organization: http://groups.google.com
Lines: 31
Message-ID: <1167755671.885942.83520@a3g2000cwd.googlegroups.com>
References: <1167753329.259479.53680@k21g2000cwa.googlegroups.com>
<POqdncdqCbdBHwfYnZ2dnUVZ_tPinZ2d@comcast.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167755678 19817 127.0.0.1 (2 Jan 2007 16:34:38 GMT)
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NNTP-Posting-Date: Tue, 2 Jan 2007 16:34:38 +0000 (UTC)
In-Reply-To: <POqdncdqCbdBHwfYnZ2dnUVZ_tPinZ2d@comcast.com>
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a3g2000cwd.googlegroups.com; posting-host=170.121.15.35;

posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news2.google.com rec.radio.amateur.homebrew:8518
rec.radio.amateur.boatanchors:6943 sci.electronics.design:137847

John Popelish wrote:
> The grid acts as a rectifier that builds a DC grid bias
> voltage from the rectified AC signal, biasing the tube off.
> Then the tank dies a natural death.

But in a "normal-functioning" oscillator, the DC grid bias doesn't cut things off for so long, right?

The P-P amplitude at the grid (as seen by my 10x scope probe) when the circuit is not squegging is in fact larger than when it is squegging.

I suppose it is possible there's some weird kink in tube characteristics for all the pentodes I tried.

> Adding the series
> resistor reduced the efficiency of the rectification.
>
> Sounds like you have too much positive feedback, to begin with.

Probably, but moving the tap on the tank coil had little effect. The handbook says about a third of the way up from the ground end, but I tried it at a half, two-thirds, one-tenth, etc. It did alter the shape and timing of the squegging a little bit but it was still squegging. If I moved it too far the circuit didn't oscillate at all (too little feedback).

Also, changing the biasing (trying to move it further into class A) by putting a cathode resistor in didn't help much either.

Tim.

From 593924280671833083
X-Google-Thread: fc2a5,7f8801ef53fc619,start
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 02 Jan 2007 10:39:55 -0600
Date: Tue, 02 Jan 2007 16:39:58 +0000
From: JB <k1jzp@comcast.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.13) Gecko/
20060414
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MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: relay needed

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Content-Transfer-Encoding: 7bit
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Lines: 2
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X-Trace: sv3-gY7DLSV/brT7ltbsLYsY4rsnlmrSZiuHzcKPZCkCTkLqjHsNKKuVDzfT5guQh/
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8519
```

Need a source foa NCX-3 NCX-5 Relay T154-6C-115VDC 9000 OHM COIL found some but they are $38.34 each TNX JB

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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 02 Jan 2007 10:54:28 -0600
Date: Tue, 02 Jan 2007 12:02:27 -0500
From: John Popelish <jpopelish@rica.net>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.design
Subject: Re: Squegging in LC oscillators
References: <1167753329.259479.53680@k21g2000cwa.googlegroups.com>
<POqdncdqCbdBHwfYnZ2dnUVZ_tPinZ2d@comcast.com>
<1167755671.885942.83520@a3g2000cwd.googlegroups.com>
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Lines: 42
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fr5bF1BX2uYQMFkH4GP6cmhaqqCHkcxQgCykIVRKkF1chaEjxO9SACErQTZgyIxQ8LDU5rERwr5W!
tHx1ad6zwjXZ
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
```

X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8520
rec.radio.amateur.boatanchors:6944 sci.electronics.design:137853

Tim Shoppa wrote:
> John Popelish wrote:
>> The grid acts as a rectifier that builds a DC grid bias
>> voltage from the rectified AC signal, biasing the tube off.
>>   Then the tank dies a natural death.
>
> But in a "normal-functioning" oscillator, the DC grid bias doesn't cut
> things off for so long, right?

Right. If you don't have way too much loop gain, the bias
just shifts enough from the grid leak effect to slightly
lower the loop gain so that a stable oscillation takes
place. The negative feedback loop that adjusts this gain
adjustment effect can be stable or unstable.
>
> The P-P amplitude at the grid (as seen by my 10x scope probe) when the
> circuit is not squegging is in fact larger than when it is squegging.
>
> I suppose it is possible there's some weird kink in tube
> characteristics for all the pentodes I tried.
>
>> Adding the series
>> resistor reduced the efficiency of the rectification.
>>
>> Sounds like you have too much positive feedback, to begin with.
>
> Probably, but moving the tap on the tank coil had little effect. The
> handbook says about a third of the way up from the ground end, but I
> tried it at a half, two-thirds, one-tenth, etc. It did alter the shape
> and timing of the squegging a little bit but it was still squegging. If
> I moved it too far the circuit didn't oscillate at all (too little
> feedback).
>
> Also, changing the biasing (trying to move it further into class A) by
> putting a cathode resistor in didn't help much either.

My concept may be over simplified, and not include
everything that is happening. I would look at the screen
bias voltage during the squeeging to see if it is also
bouncing with it, or remains stable through a cycle.

From 2705326699433538839
X-Google-Thread: fc2a5,7976e9fdd638996,start
X-Google-Attributes: gidfc2a5,public

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border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 02 Jan 2007 11:54:46 -0600
Message-ID: <459A9C69.9010604@comcast.net>
Date: Tue, 02 Jan 2007 17:54:49 +0000
From: JB <k1jzp@comcast.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.13) Gecko/
20060414
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To: SMO <sbscomputer@comcast.net>
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8521
```

Chris Smolinski runs SpyNumbers.com and the "Spooks" e-mail list, where "number stations" hobbyists log hundreds of shortwave messages transmitted every month. "It's like a puzzle. They're mystery stations," explained Smolinski, who has tracked the spy broadcasts for 30 years.

```
From 7884044773064129332
X-Google-Thread: fc2a5,1454424222061fe6
X-Google-Thread: fc8b1,1454424222061fe6
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X-Google-Attributes: gidfc2a5,gidfc8b1,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 02 Jan 2007 11:57:09 -0600
Date: Tue, 02 Jan 2007 09:57:11 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.design
```

```
Subject: Re: Squegging in LC oscillators
References: <1167753329.259479.53680@k21g2000cwa.googlegroups.com>
In-Reply-To: <1167753329.259479.53680@k21g2000cwa.googlegroups.com>
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aUc+dQq34X9AfSFR
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8522
rec.radio.amateur.boatanchors:6945 sci.electronics.design:137877

Tim Shoppa wrote:
> I have been playing around with my homebrew VFO, a Hartley oscillator,
> with a tapped inductor in the tank.
>
> Rough parameters: 6AH6 pentode for the VFO, tank resonant at 1.8Mc,
> plate circuit resonant at 3.6Mc. Rather low-Q plate tank (on purpose, I
> want it to cover 100kc or so). Tank tapped about 1/3 of the way from
> the bottom. 150V from an 0A2 on the screen, bypassed by a 0.005 uF
> ceramic with short leads at the screen.
>
> While playing around with it I found this weird mode where it wouldn't
> necessarily start up in constant oscillation. It would repeatedly
> (30000 times a second) start up (starting up very quickly, in just a
> few cycles), grid and cathode circuit amplitude would build up to about
> 10V p-p, then the oscillations would slowly (over the next 30
> microseconds) die down. Then it would repeat.
>
> Hand capacitance near the grid or on the tank coil would often break it
> out of this mode and into more regular oscillation. Putting a 10x scope
> probe on the grid sometimes broke it out of this mode too.
>
> What eventually made the circuit more reliable was putting a few
> hundred ohms in series with the grid. But I don't understand exactly
> how this helped.
>
> My guess for this squegging mode is that the oscillator would suddenly
> start, the tank would ring, the tank would ring hard enough that grid
> current flowed, and that the grid current somehow would "latch" on
> until oscillation died out, then it would repeat.
>
> Or, just maybe, it's more closely related to screen current and maybe
> some kind of oscillation of the 0A2 in the screen regulator. I tried
```

> changing the dropping resistor feeding the 0A2 and a couple different 0A2's but the squegging seemed relatively insensitive to it.
>
> Trying some other pentodes that were not so "hot" (e.g. 6AU6, 6BA6) changed the squegging a little but it was still there.
>
> My not-understood fix, putting a few hundred ohms in series with the grid, is something that I've often seen in real-world circuits. I think this is to provide some degeneration, and always was under the impression that the degeneration was intended to prevent oscillation in the VHF range. It is possible that the circuit was indeed oscillating at a few hundred Mc but my scope (100Mc bandwidth) didn't see it. And I don't know how a 200Mc parasitic might cause 30kc squegging.
>
> Any thoughts?
>
> Tim KA0BTD
>

Spice is your friend. I have found that LT spice is particularly good at predicting squegging, at least in general. There's never a 1:1 correspondence with the real thing, but close is pretty good in RF.

When I have experienced squegging like this it has been because I have built a circuit with a resonance between the circuit capacitances and the RF chokes (you know -- those things you use for biasing that you treat as 'shorts' in your AC analysis?). To the bias circuit, the oscillator looks like a negative resistance, so you get two modes of oscillation at once.

This is complicated by the fact that the circuit wouldn't oscillate at the lower frequency at all if it weren't for the action of the intended oscillation -- it's the current requirements of the active device as oscillation build up that cause the negative resistance action that causes squegging.

I suspect that your grid resistor is killing the Q of the circuit at 30kHz, which kills the squegging without killing the intended mode of oscillation. You may find that loading any bias chokes with carefully selected, unbypassed series resistance will also kill the squegging. You can also sometimes kill it by reducing selected bypass capacitances to lower the circuit Q at the squegging frequency.

Of course all of this also lowers the circuit Q at the desired oscillation frequency -- that's life. Your job is to find a happy medium that gives you good oscillator performance without squegging. Or start building superregenerative receivers!

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From -4453393439366003472
X-Google-Thread: fc2a5,1454424222061fe6
X-Google-Thread: fc8b1,1454424222061fe6
X-Google-Thread: 112d1e,1454424222061fe6
X-Google-Attributes: gidfc2a5,gidfc8b1,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!48g2000cwx.googlegroups.com!not-for-
mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.design
Subject: Re: Squegging in LC oscillators
Date: 2 Jan 2007 10:00:45 -0800
Organization: http://groups.google.com
Lines: 37
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NNTP-Posting-Date: Tue, 2 Jan 2007 18:00:51 +0000 (UTC)
In-Reply-To: <wa2dnXXh24rZEwfYnZ2dnUVZ_o2vnZ2d@comcast.com>
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1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 48g2000cwx.googlegroups.com; posting-host=170.121.15.35;
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Xref: g2news2.google.com rec.radio.amateur.homebrew:8523
rec.radio.amateur.boatanchors:6946 sci.electronics.design:137879
```

John Popelish wrote:

> My concept may be over simplified, and not include
> everything that is happening. I would look at the screen
> bias voltage during the squeeging to see if it is also
> bouncing with it, or remains stable through a cycle.

Wow, man, if I make it happen again I see the screen voltage
motorboating up and down by about 3V (around the nominal 150V) at about
30kc.

Changing the screen bypass capacitor between

680pf/0.001/0.002/0.005/0.010 and changing the current through the 0A2 between 5mA and 10mA and 20mA and 30mA doesn't stop the squegging but it does somewhat alter the timing/amplitude.

Plate can be held at a steadyish 350V (even bypassed) through all this.

So this is something like the textbook squegging which seems to be something like a motorboating of the plate voltage, but in my case I see it in the nominally regulated screen instead. New one for me!

I don't think this is quite like the typical NE-2 relaxation oscillator circuit, because I thought 0A2's were supposed to be stable with these small amounts of capacitance and the behavior seems independent of room lighting, but I could be wrong. The screen voltage waveform sure as hell looks like a relaxation oscillator at 30kc.

Looking at my old schematics I see my Heath HW-16 crystal oscillator puts the crystal between the screen and the grid of a 6CL6. Manual says that the screen is serving as the plate of the oscillator. Probably completely unrelated to the intended operation of my oscillator (where I bypass the screen and the leads are short) but may be related to the unintended mode of operation!

Tim.

```
From -5764618935594524498
X-Google-Thread: fc2a5,1454424222061fe6
X-Google-Thread: fc8b1,1454424222061fe6
X-Google-Thread: 112d1e,1454424222061fe6
X-Google-Attributes: gidfc2a5,gidfc8b1,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 02 Jan 2007 12:30:15 -0600
Date: Tue, 02 Jan 2007 10:30:18 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.design
Subject: Re: Squegging in LC oscillators
References: <1167753329.259479.53680@k21g2000cwa.googlegroups.com>
<POqdncdqCbdBHwfYnZ2dnUVZ_tPinZ2d@comcast.com>
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In-Reply-To: <1167760845.402602.219880@48g2000cwx.googlegroups.com>
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```

```
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NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-fADjQjdSlBiXUUCEdNQUN/BFwgM+igO7Oa8UbH/0nAfG5IzCP/
F4iriAWAjK2CGJ6yomqvSJr3+lS0A!ibOhONhW7CdAI/V1YPiFc5U08IMwpaUnszHqC3Lbi+
+BRTQ8TXvdn+pRfTc8XXBu/Rm26pTax0U9!c2wri8/AAfHeJxEL
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8524
rec.radio.amateur.boatanchors:6947 sci.electronics.design:137885
```

Tim Shoppa wrote:
> John Popelish wrote:
>
>>My concept may be over simplified, and not include
>>everything that is happening. I would look at the screen
>>bias voltage during the squeeging to see if it is also
>>bouncing with it, or remains stable through a cycle.
>
>
> Wow, man, if I make it happen again I see the screen voltage
> motorboating up and down by about 3V (around the nominal 150V) at about
> 30kc.
>
> Changing the screen bypass capacitor between
> 680pf/0.001/0.002/0.005/0.010 and changing the current through the 0A2
> between 5mA and 10mA and 20mA and 30mA doesn't stop the squegging but
> it does somewhat alter the timing/amplitude.
>
> Plate can be held at a steadyish 350V (even bypassed)
> through all this.
>
> So this is something like the textbook squegging which seems to be
> something like a motorboating of the plate voltage, but in my case I
> see it in the nominally regulated screen instead. New one for me!
>
> I don't think this is quite like the typical NE-2 relaxation oscillator
> circuit, because I thought 0A2's were supposed to be stable with these
> small amounts of capacitance and the behavior seems independent of room
> lighting, but I could be wrong. The screen voltage waveform sure as
> hell looks like a relaxation oscillator at 30kc.
>
> Looking at my old schematics I see my Heath HW-16 crystal oscillator
> puts the crystal between the screen and the grid of a 6CL6. Manual says
> that the screen is serving as the plate of the oscillator. Probably
> completely unrelated to the intended operation of my oscillator (where
> I bypass the screen and the leads are short) but may be related to the
> unintended mode of operation!

>
> Tim.
>

What are the three terminals of your oscillator? Your screen is
grounded, so I assume that the grid and cathode are both floating at RF
-- is this so?

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From -1420674224155311939
X-Google-Thread: fc2a5,1454424222061fe6
X-Google-Thread: fc8b1,1454424222061fe6
X-Google-Thread: 112d1e,1454424222061fe6
X-Google-Attributes: gidfc2a5,gidfc8b1,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-
mail
NNTP-Posting-Date: Tue, 02 Jan 2007 12:51:37 -0600
From: "BFoelsch" <BFoelsch@comcast.ditch.this.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.design
References: <1167753329.259479.53680@k21g2000cwa.googlegroups.com>
<POqdncdqCbdBHwfYnZ2dnUVZ_tPinZ2d@comcast.com>
<1167755671.885942.83520@a3g2000cwd.googlegroups.com>
<wa2dnXXh24rZEwfYnZ2dnUVZ_o2vnZ2d@comcast.com>
<1167760845.402602.219880@48g2000cwx.googlegroups.com>
Subject: Re: Squegging in LC oscillators
Date: Tue, 2 Jan 2007 13:52:23 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1506
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1506
Message-ID: <Vb6dneSDQKEkNAfYnZ2dnUVZ_u2mnZ2d@giganews.com>
Lines: 68
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nZqbv/3ZWFWgI6+2n1EWhxVMu0eHpiCYd5mu8Lmta5oPReY++YhKGMVUM0GYPKY/KQCMo79Fog==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8525 rec.radio.amateur.boatanchors:6948 sci.electronics.design:137887

"Tim Shoppa" <shoppa@trailing-edge.com> wrote in message news:1167760845.402602.219880@48g2000cwx.googlegroups.com...

> John Popelish wrote:
>
> > My concept may be over simplified, and not include everything that is happening. I would look at the screen bias voltage during the squeeging to see if it is also bouncing with it, or remains stable through a cycle.
>
> Wow, man, if I make it happen again I see the screen voltage motorboating up and down by about 3V (around the nominal 150V) at about 30kc.
>
> Changing the screen bypass capacitor between 680pf/0.001/0.002/0.005/0.010 and changing the current through the 0A2 between 5mA and 10mA and 20mA and 30mA doesn't stop the squegging but it does somewhat alter the timing/amplitude.
>
> Plate can be held at a steadyish 350V (even bypassed) through all this.
>
> So this is something like the textbook squegging which seems to be something like a motorboating of the plate voltage, but in my case I see it in the nominally regulated screen instead. New one for me!
>
> I don't think this is quite like the typical NE-2 relaxation oscillator circuit, because I thought 0A2's were supposed to be stable with these small amounts of capacitance and the behavior seems independent of room lighting, but I could be wrong. The screen voltage waveform sure as hell looks like a relaxation oscillator at 30kc.
>
> Looking at my old schematics I see my Heath HW-16 crystal oscillator puts the crystal between the screen and the grid of a 6CL6. Manual says that the screen is serving as the plate of the oscillator. Probably completely unrelated to the intended operation of my oscillator (where I bypass the screen and the leads are short) but may be related to the unintended mode of operation!
>
> Tim.

I think you are talking yourself out of the problem.

It sounds like you are trying to build an electron-coupled Hartley oscillator. There is no way that a voltage change of 3 volts on the screen (which is functioning as the anode, for Hartley purposes) is going to start and stop the oscillator.

Watch the DC voltage on the grid. You will see it follow the relaxation oscillator waveform when the thing is squegging.

The fundamental problem is two-fold. First, too much feedback. Second, the time constant of the grid circuit is too long. The stored energy in the tank can continue to charge the coupling cap even after the plate current is cut off, and it can't start to oscillate again until the charge on the coupling cap bleeds off.

Start by lowering the grid circuit resistance and lowering the capacitance of the grid coupling capacitor. This will work to cure both evils. Taking a quick look at the 6AH6 curves I would guess that, at 6 MHz, your coupling cap should be about 22pF and the grid return about 10K. The 6AH6 is also a sharp-cutoff pentode, so it will be very sensitive to small grid voltage changes near cut-off.

Don't get distracted by the swings in screen volts, you are just drawing large pulses of current and pulling the supply down. Unless the 0A2 is going out of conduction RC oscillation is unlikely.

```
From 3991319786314856575
X-Google-Thread: fc2a5,1454424222061fe6
X-Google-Thread: fc8b1,1454424222061fe6
X-Google-Thread: 112d1e,1454424222061fe6
X-Google-Attributes: gidfc2a5,gidfc8b1,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v33g2000cwv.googlegroups.com!not-for-
mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.design
Subject: Re: Squegging in LC oscillators
Date: 2 Jan 2007 11:47:18 -0800
Organization: http://groups.google.com
Lines: 24
Message-ID: <1167767238.391621.70100@v33g2000cwv.googlegroups.com>
References: <1167753329.259479.53680@k21g2000cwa.googlegroups.com>
   <POqdncdqCbdBHwfYnZ2dnUVZ_tPinZ2d@comcast.com>
   <1167755671.885942.83520@a3g2000cwd.googlegroups.com>
   <wa2dnXXh24rZEwfYnZ2dnUVZ_o2vnZ2d@comcast.com>
   <1167760845.402602.219880@48g2000cwx.googlegroups.com>
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NNTP-Posting-Date: Tue, 2 Jan 2007 19:47:24 +0000 (UTC)
In-Reply-To: <Vb6dneSDQKEkNAfYnZ2dnUVZ_u2mnZ2d@giganews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
```

Complaints-To: groups-abuse@google.com
Injection-Info: v33g2000cwv.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news2.google.com rec.radio.amateur.homebrew:8526
rec.radio.amateur.boatanchors:6949 sci.electronics.design:137898

BFoelsch wrote:
> Watch the DC voltage on the grid. You will see it follow the relaxation
> oscillator waveform when the thing is squegging.

What you write, which relates the Q (probably very low hundreds) of the tuned circuit and it's frequency to the period the squegging, is in good agreement with the squegging I observe. Will check the DC grid voltage with the scope tonight.

> Start by lowering the grid circuit resistance and lowering the capacitance
> of the grid coupling capacitor. This will work to cure both evils. Taking a
> quick look at the 6AH6 curves I would guess that, at 6 MHz, your coupling
> cap should be about 22pF and the grid return about 10K.

The grid tuned circuit is at 1.8Mc, and the squegging seemed insensitive to the coupling cap. 100pF is the handbook value, but I did play around with it. Too small (39pF) and no oscillation. At 56pF there was squegging.

Did not try playing with the grid return value (still at 47K from the handbook), that may indeed be the key.

Tim.

From -3498328197247629920
X-Google-Thread: fc2a5,1454424222061fe6
X-Google-Thread: fc8b1,1454424222061fe6
X-Google-Thread: 112d1e,1454424222061fe6
X-Google-Attributes: gidfc2a5,gidfc8b1,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h40g2000cwb.googlegroups.com!not-for-mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.design
Subject: Re: Squegging in LC oscillators
Date: 2 Jan 2007 12:02:05 -0800
Organization: http://groups.google.com
Lines: 20
Message-ID: <1167768124.975254.29160@h40g2000cwb.googlegroups.com>
References: <1167753329.259479.53680@k21g2000cwa.googlegroups.com>
   <POqdncdqCbdBHwfYnZ2dnUVZ_tPinZ2d@comcast.com>
   <1167755671.885942.83520@a3g2000cwd.googlegroups.com>
   <wa2dnXXh24rZEwfYnZ2dnUVZ_o2vnZ2d@comcast.com>
   <1167760845.402602.219880@48g2000cwx.googlegroups.com>

   <JbOdncVL58MlOQfYnZ2dnUVZ_sudnZ2d@web-ster.com>
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Mime-Version: 1.0
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X-Trace: posting.google.com 1167768130 17588 127.0.0.1 (2 Jan 2007 20:02:10 GMT)
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NNTP-Posting-Date: Tue, 2 Jan 2007 20:02:10 +0000 (UTC)
In-Reply-To: <JbOdncVL58MlOQfYnZ2dnUVZ_sudnZ2d@web-ster.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h40g2000cwb.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news2.google.com rec.radio.amateur.homebrew:8527
rec.radio.amateur.boatanchors:6951 sci.electronics.design:137906

Tim Wescott wrote:
> What are the three terminals of your oscillator? Your screen is
> grounded, so I assume that the grid and cathode are both floating at RF
> -- is this so?

The circuit is the "tuned plate Hartley" as it appeared in any
50's/60's/70's ARRL handbook.

The grid tuned circuit is at 1.8Mc, the bottom end of the inductor is
grounded, there's a tap nominally one third of the way up to the
cathode, and the top of the inductor is connected via a 100pF capacitor
to the grid, which has a 47K to ground.

The plate circuit in my current incarnation is tuned to the harmonic at
3.6Mc. The "untuned plate" version in the handbook has a RF choke
instead of a plate tuned circuit, and indeed I had this on the bench
for a little while.

Tim.

From 3174185974915460952
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: "Lushy" <david.lush@bigpond.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net>
<F4Xeh.4564$qp1.2522@tornado.texas.rr.com>
Subject: Re: Do no-code hams wipe their butts?

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Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Rfc2646: Format=Flowed; Response
Message-ID: <zwBmh.354$A8.126@news-server.bigpond.net.au>
Date: Tue, 02 Jan 2007 23:02:55 GMT
NNTP-Posting-Host: 124.180.235.180
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1167778975 124.180.235.180 (Wed, 03 Jan 2007
10:02:55 EST)
NNTP-Posting-Date: Wed, 03 Jan 2007 10:02:55 EST
Organization: BigPond Internet Services
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!
quokka.wn.com.au!lon-transit.news.telstra.net!lon-in.news.telstra.net!
news.telstra.net!news-server.bigpond.net.au!53ab2750!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6955
rec.radio.amateur.homebrew:8528 rec.radio.amateur.policy:61045
rec.radio.scanner:8444
```

U-Know-Who wrote:

> "Slow Code" <my.mail@no.spam> wrote in message
> news:JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net...
>> If they're to lazy to learn CW for good radio skills, they might be
>> too lazy to use toilet paper for good hygiene.
>>
>> SC
>
> Well SC, just open the stall next time you're on duty at your job of
> restroom attendant at the hamfest. You'll have your answer. And I
> ain't tippin you for that damn "Brut" cologne you hawk!

OOOOH Jesus

```
From 7041066641575416190
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-xxxfer.readnews.com!news-out.readnews.com!
postnews3.readnews.com!news.coretel.net!not-for-mail
From: "Radiosrfun" <Radiosrfun@radiosrfun.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
```

References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net> <F4Xeh.4564$qp1.2522@tornado.texas.rr.com> <zwBmh.354$A8.126@news-server.bigpond.net.au>
Subject: Re: Do no-code hams wipe their butts?
Date: Tue, 2 Jan 2007 18:36:14 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Lines: 31
Message-ID: <459aec63$0$2646$ecde5a14@news.coretel.net>
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X-Trace: DXC=4[3aKY?`>I>Pa=lNmHI6a7cYX6N<OEXQ;CINJm3h9IA<@XOQQQH=db4XD_1;?eK6R<Y_CTZ^T<@P1
X-Complaints-To: abuse@coretel.net
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6956 rec.radio.amateur.homebrew:8529 rec.radio.amateur.policy:61047 rec.radio.scanner:8446

"Lushy" <david.lush@bigpond.com> wrote in message
news:zwBmh.354$A8.126@news-server.bigpond.net.au...
> U-Know-Who wrote:
>> "Slow Code" <my.mail@no.spam> wrote in message
>> news:JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net...
>>> If they're to lazy to learn CW for good radio skills, they might be
>>> too lazy to use toilet paper for good hygiene.
>>>
>>> SC
>>
>> Well SC, just open the stall next time you're on duty at your job of
>> restroom attendant at the hamfest. You'll have your answer. And I
>> ain't tippin you for that damn "Brut" cologne you hawk!
>
> OOOOH Jesus
>

SC has been bragging for quite some time now about No-Coders - but has "yet" to show where "he" has ever been licensed as a ham at all let alone "with" code. I don't care to give my call here - but have in the past and will again if asked. It doesn't prove a thing one way or another. My call - though I'm an extra - happens to be my old KA Novice Call sign. Been an extra quite a while. Went from Novice - Technician (80s) - Advanced - Extra.

It is amazing you guys keep him in entertainment by acknowledging his ridiculous remarks. GET A LIFE - SC -whether we like it or not - CODE IS GONE. You're beating a horse that has been dead quite a while. You've been on this stupid kick for about 5 months now. Don't you have anything better to do?

```
From 8448214349139686847
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.maxwell.syr.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
Subject: Re: Do Pro-code hams wipe their butts?
Date: Tue, 02 Jan 2007 22:19:17 -0500
Message-ID: <o48mp21bris73ahufp6t7v7o5448nd1nmf@4ax.com>
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net>
<F4Xeh.4564$qp1.2522@tornado.texas.rr.com> <zwBmh.354$A8.126@news-
server.bigpond.net.au> <459aec63$0$2646$ecde5a14@news.coretel.net>
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MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 35
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X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6958
rec.radio.amateur.homebrew:8530 rec.radio.amateur.policy:61058
rec.radio.scanner:8452
```

On Tue, 2 Jan 2007 18:36:14 -0500, "Radiosrfun"
<Radiosrfun@radiosrfun.com> wrote:

```
>"Lushy" <david.lush@bigpond.com> wrote in message
>news:zwBmh.354$A8.126@news-server.bigpond.net.au...
>> U-Know-Who wrote:
>>> "Slow Code" <my.mail@no.spam> wrote in message
>>> news:JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net...
>>>> If they're to lazy to learn CW for good radio skills, they might be
>>>> too lazy to use toilet paper for good hygiene.
>>>>
>>>> SC
>>>
>>> Well SC, just open the stall next time you're on duty at your job of
>>> restroom attendant at the hamfest. You'll have your answer.  And I
>>> ain't tippin you for that damn "Brut" cologne you hawk!
>>
>> OOOOH Jesus
>>
>
>SC has been bragging for quite some time now about No-Coders - but has "yet"
>to show where "he" has ever been licensed as a ham at all let alone "with"
```

```
>code. I don't care to give my call here - but have in the past and will
>again if asked. It doesn't prove a thing one way or another. My call -
>though I'm an extra - happens to be my old KA Novice Call sign. Been an
>extra quite a while. Went from Novice - Technician (80s) - Advanced - Extra.
kd7adl has come forward claiming to be Slow Code
>
>It is amazing you guys keep him in entertainment by acknowledging his
>ridiculous remarks. GET A LIFE - SC -whether we like it or not - CODE IS
>GONE. You're beating a horse that has been dead quite a while. You've been
>on this stupid kick for about 5 months now. Don't you have anything better
>to do?
>
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com
```

```
From -6158471971877335739
X-Google-Thread: fc2a5,1454424222061fe6
X-Google-Thread: fc8b1,1454424222061fe6
X-Google-Thread: 112d1e,1454424222061fe6
X-Google-Attributes: gidfc2a5,gidfc8b1,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!
newscon05.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr25.news.prodigy.net.POSTED!35cb456c!not-for-mail
From: "N9WOS" <N9WOS@nobug.sbcglobal.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.design
References: <1167753329.259479.53680@k21g2000cwa.googlegroups.com>
Subject: Re: Squegging in LC oscillators
Lines: 113
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <qVHmh.42067$wc5.14987@newssvr25.news.prodigy.net>
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X-Trace: newssvr25.news.prodigy.net 1167805142 ST000 66.72.70.89 (Wed, 03 Jan 2007
01:19:02 EST)
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Organization: SBC http://yahoo.sbc.com
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SA_QLFC^RQHUPH[P[NRWCCMLSNPOD_ESALHUK@TDFUZHBLJ\XGKL^NXA\EVHSP[D_C^B_^JCX^W]CHBAX]
POG@SSAZQ\LE[DCNMUPG_VSC@VJM
Date: Wed, 03 Jan 2007 06:19:02 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8531
rec.radio.amateur.boatanchors:6964 sci.electronics.design:138015
```

> Hand capacitance near the grid or on the tank coil would often break it out of this mode and into more regular oscillation. Putting a 10x scope probe on the grid sometimes broke it out of this mode too.

> Any thoughts?
>
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Probably hurt it a good amount, but it didn't kill it.

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The cathode is the input, and the anode is the output.

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Look up parasitic oscillation in your handbook..
You will see the circuit that is causing it.
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The cap will look like a short circuit at UHF.
It will then go through the chassis.
And then through the cathode tank, which is shorted by the tank cap at UHF.

Ways to solve the problem.
Turn down the plate, and screen voltage.
It will drop beam current.
That will increase the resistance of the tube to the point it can't

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Or you could put a 100 ohm or 1000 ohm resistor in the plate circuit.
In big amplifiers, where you can't tolerate a large resistance in the plate lead,
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The appear as a short to DC, and the desired operating frequency.
But they appear as a high resistance to the VHF oscillating frequency.
It basically de-Qs the VHF oscillating circuit.

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So, just put a 100 ohm resistor in series with the plate.
If that don't work, then try a 1K resistor.
I am pretty sure that it will settle down and behave.
It will be a lot easier that winding a parasitic choke for it.

You also want to take a careful look at the screen circuit.
It can also act like an output in a parasitic oscillation.
So, try putting a 100, or 1K resistor in series with it too.

It's oscillating cycle.
It starts it's HF oscillation gain cycle.
The signal grows, and the tube bias increases.
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The UHF oscillations are several times larger than the intended oscillation.
The UHF oscillation only last a fraction of the high frequency cycle.
When it starts it's UHF oscillation, it quickly charges the grid capacitor
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Way past cutoff.
The UHF oscillation quickly extinguishes it's self.
But since the tube is in cutoff, the intended HF oscillation dies too.
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Push it up to 1M or so.
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Basically, zero signal condition.
Then, push up the plate, and screen voltage.
If you have a little signal strength meter that works up to the UHF range,
with it's antenna clipped to the chassis, or wiring.
You will se it start to come alive.
You will be able to move your hand around the unit,
and it will break into, and out of oscillation.
Sometimes, it will motorboat, or operate continuously.

You want to change the circuit so that you can't get it go parasitic,
even when you really push it to it's limits..

Then un-short the tank and you are ready to go.

From -8522744342675672251
X-Google-Thread: fc2a5,1454424222061fe6
X-Google-Thread: fc8b1,1454424222061fe6
X-Google-Thread: 112d1e,1454424222061fe6
X-Google-Attributes: gidfc2a5,gidfc8b1,gid112d1e,public
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Path: g2news2.google.com!postnews.google.com!48g2000cwx.googlegroups.com!not-for-mail
From: "MarkAren" <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.design
Subject: Re: Squegging in LC oscillators
Date: 3 Jan 2007 01:08:10 -0800
Organization: http://groups.google.com
Lines: 63
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References: <1167753329.259479.53680@k21g2000cwa.googlegroups.com>
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Xref: g2news2.google.com rec.radio.amateur.homebrew:8532 rec.radio.amateur.boatanchors:6968 sci.electronics.design:138031

Tim,

My guess is the OA2 (Neon) and Cap combination is causing the problem.
Isn't that an oscillator in itself ?

Try replacing the OA2 with a Zener (or 3 in series). It may be a bit
noisy, but it may also be stable.

Or... a pair of resistors to derive 150V from HT. Just to see if squeg.
stability improves/changes. 15k + 18k for a 350V HT (just a guess).

-Mark

Tim Shoppa wrote:

> I have been playing around with my homebrew VFO, a Hartley oscillator,
> with a tapped inductor in the tank.
>
> Rough parameters: 6AH6 pentode for the VFO, tank resonant at 1.8Mc,
> plate circuit resonant at 3.6Mc. Rather low-Q plate tank (on purpose, I
> want it to cover 100kc or so). Tank tapped about 1/3 of the way from
> the bottom. 150V from an 0A2 on the screen, bypassed by a 0.005 uF
> ceramic with short leads at the screen.
>
> While playing around with it I found this weird mode where it wouldn't
> necessarily start up in constant oscillation. It would repeatedly
> (30000 times a second) start up (starting up very quickly, in just a
> few cycles), grid and cathode circuit amplitude would build up to about
> 10V p-p, then the oscillations would slowly (over the next 30
> microseconds) die down. Then it would repeat.
>
> Hand capacitance near the grid or on the tank coil would often break it
> out of this mode and into more regular oscillation. Putting a 10x scope
> probe on the grid sometimes broke it out of this mode too.
>
> What eventually made the circuit more reliable was putting a few
> hundred ohms in series with the grid. But I don't understand exactly
> how this helped.
>
> My guess for this squegging mode is that the oscillator would suddenly
> start, the tank would ring, the tank would ring hard enough that grid
> current flowed, and that the grid current somehow would "latch" on
> until oscillation died out, then it would repeat.
>
> Or, just maybe, it's more closely related to screen current and maybe
> some kind of oscillation of the 0A2 in the screen regulator. I tried
> changing the dropping resistor feeding the 0A2 and a couple different
> 0A2's but the squegging seemed relatively insensitive to it.
>
> Trying some other pentodes that were not so "hot" (e.g. 6AU6, 6BA6)
> changed the squegging a little but it was still there.
>
> My not-understood fix, putting a few hundred ohms in series with the
> grid, is something that I've often seen in real-world circuits. I think
> this is to provide some degeneration, and always was under the
> impression that the degeneration was intended to prevent oscillation in
> the VHF range. It is possible that the circuit was indeed oscillating
> at a few hundred Mc but my scope (100Mc bandwidth) didn't see it. And I
> don't know how a 200Mc parasitic might cause 30kc squegging.
>
> Any thoughts?
>
> Tim KA0BTD

```
From 3860556373072523695
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!n51g2000cwc.googlegroups.com!not-for-
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From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.design
Subject: Re: Squegging in LC oscillators
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Xref: g2news2.google.com rec.radio.amateur.homebrew:8533
rec.radio.amateur.boatanchors:6973 sci.electronics.design:138095
```

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> The loop is most likely from your plate, through the tuning cap of the
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OK, I saw the parasitic last night!

I only have a 100MHz scope. Putting a scope probe on the circuit seems to often kill the squegging. But I put a little loop on the end of the scope probe and sniffed around, and indeed there was a 400MHz parasitic that would build up over maybe 0.1usec. Then the impulse from this set the tank ringing at 1.8MHz, and after the ringing mostly decayed (30usec or so) the cycle would repeat.

There seemed to be the most energy at the well-bypassed screen and not at the plate, but remember this is an electron-coupled oscillator so the screen is working as a plate.

I guess even a 0.001uF ceramic cap with short leads isn't a good bypass for 400MHz!

There must've been substantial 400MHz energy to show up on my 100MHz scope :-).

My band-aid of a resistor in series with the grid seems to do the trick.

Tim.

```
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X-Google-Thread: fc8b1,1454424222061fe6
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
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Date: Wed, 03 Jan 2007 08:45:12 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.design
Subject: Re: Squegging in LC oscillators
References: <1167753329.259479.53680@k21g2000cwa.googlegroups.com>
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<1167841168.858478.151170@n51g2000cwc.googlegroups.com>
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72TbxVJe+/CRgtW4
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8534
rec.radio.amateur.boatanchors:6975 sci.electronics.design:138104

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> trick.

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> Tim.
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Your resistor in series with the grid would have much more effect on a UHF oscillation than on one at 30kHz, indeed.

Even a 1nF chip cap soldered directly between the screen lead and cathode of the tube would have the internal tube lead inductances to contend with, so you're probably never going to 'get there from here' by that method.

I wonder if a loading resistor in the screen lead instead of the grid would work?

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From 3649630652486048227
X-Google-Thread: fc2a5,1454424222061fe6
X-Google-Thread: fc8b1,1454424222061fe6
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X-Google-Attributes: gidfc2a5,gidfc8b1,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!
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X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.design
Subject: Re: Squegging in LC oscillators
References: <1167753329.259479.53680@k21g2000cwa.googlegroups.com>
<qVHmh.42067$wc5.14987@newssvr25.news.prodigy.net>
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Xref: g2news2.google.com rec.radio.amateur.homebrew:8535
rec.radio.amateur.boatanchors:6976 sci.electronics.design:138128

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> even when you really push it to it's limits..
>
> Then un-short the tank and you are ready to go.
>
>
>

Nice post. A while ago, I went into "hair-pulling mode"
the other way - *trying* to cause squegging in a one
transistor DC-DC booster. Finally got it with a bit
of fiddling. Maybe it belongs under Murphy's section
on oscillators:

When you don't want oscillation, it will oscillate
When you want oscillation, it won't
When you want to get rid of squegging, you can't
When you want squegging, it won't

Do all Parisitics (sic) come from Paris? :-)

Ed

From -5576095432252460696
X-Google-Thread: fc2a5,1454424222061fe6
X-Google-Thread: fc8b1,1454424222061fe6
X-Google-Thread: 112d1e,1454424222061fe6
X-Google-Attributes: gidfc2a5,gidfc8b1,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!
newscon02.news.prodigy.net!prodigy.net!newscon05.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr17.news.prodigy.net.POSTED!35cb456c!not-for-mail
From: "N9WOS" <N9WOS@nobug.sbcglobal.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.design
References: <1167753329.259479.53680@k21g2000cwa.googlegroups.com>
<qVHmh.42067$wc5.14987@newssvr25.news.prodigy.net>
<1167841168.858478.151170@n51g2000cwc.googlegroups.com>
<MZSdnVSZvqcOQAbYnZ2dnUVZ_sDinZ2d@web-ster.com>
Subject: Re: Squegging in LC oscillators
Lines: 86
X-Priority: 3
X-MSMail-Priority: Normal

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X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <lJRmh.8847$x67.6421@newssvr17.news.prodigy.net>
NNTP-Posting-Host: 66.72.68.78
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr17.news.prodigy.net 1167845329 ST000 66.72.68.78 (Wed, 03 Jan 2007
12:28:49 EST)
NNTP-Posting-Date: Wed, 03 Jan 2007 12:28:49 EST
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
Q[R_PJSCTS@ORZU[AZOD]_\@VR]^@B@MCPWZKB]MPXHZUYICD^RAQBKZQTZTX\_I[^G_KGFNON[ZOE_AZN
VO^\XGGNTCIRPIJH[@RQKBXLRZ@CD^HKANYVW@RLGEZEJN@\_WZJBNZYYKVIOR]T]MNMG_Z[YVWSCH_Q[G
PC_A@CARQVXDSDA^M]@DRVUM@RBM
Date: Wed, 3 Jan 2007 12:28:54 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8536
rec.radio.amateur.boatanchors:6977 sci.electronics.design:138133


"Tim Wescott" <tim@seemywebsite.com> wrote in message
news:MZSdnVSZvqcOQAbYnZ2dnUVZ_sDinZ2d@web-ster.com...
> Tim Shoppa wrote:
> > N9WOS wrote:
> >
> >> I normally don't post, but, since I have done my own amount of
torturing of
> >>the 6AH6, I think i know what the problem is.
> >>
> >>The 6AH6 is slightly misnamed.
> >>The 6AH6 isn't really a pentode.
> >>It's just a really small beam power tetrode.
> >>It has usable gain up to the UHF region.
> >>And it suffers a lot of the same personality disorders of it's larger
> >>brothers.
> >>Large power tubes top out at 100Mc or so.
> >>But this small one can go up to 400 to 900Mc if it's being driven hard
> >>enough.
> >>
> >>The loop is most likely from your plate, through the tuning cap of the
> >>output tank.
> >
> >
> > OK, I saw the parasitic last night!
> >
> > I only have a 100MHz scope. Putting a scope probe on the circuit seems
> > to often kill the squegging. But I put a little loop on the end of the
> > scope probe and sniffed around, and indeed there was a 400MHz parasitic
> > that would build up over maybe 0.1usec. Then the impulse from this set
> > the tank ringing at 1.8MHz, and after the ringing mostly decayed
> > (30usec or so) the cycle would repeat.
> >
> > There seemed to be the most energy at the well-bypassed screen and not
> > at the plate, but remember this is an electron-coupled oscillator so
> > the screen is working as a plate.
```

> >
> > I guess even a 0.001uF ceramic cap with short leads isn't a good bypass
> > for 400MHz!
> >
> > There must've been substantial 400MHz energy to show up on my 100MHz
> > scope :-).
> >
> > My band-aid of a resistor in series with the grid seems to do the
> > trick.
> >
> > Tim.
> >
> Your resistor in series with the grid would have much more effect on a
> UHF oscillation than on one at 30kHz, indeed.
>
> Even a 1nF chip cap soldered directly between the screen lead and
> cathode of the tube would have the internal tube lead inductances to
> contend with, so you're probably never going to 'get there from here' by
> that method.
>
> I wonder if a loading resistor in the screen lead instead of the grid
> would work?

Yes.
My original reply also mentions that.

....
You also want to take a careful look at the screen circuit.
It can also act like an output in a parasitic oscillation.
So, try putting a 100, or 1K resistor in series with it too.
....

He says that the .001uf cap isn't much good at bypassing.
The problem is it's too good at bypassing.
It acts as a short to the UHF parasitic.
That allows enough UHF energy to be conducted to the chassis to allow it to go parasitic.
Shorting the energy to the chassis, isn't the cure to the problem, its the cause of the problem.

So I will clarify my previous statement.

You want a 100, or 1000 ohm resister in series with the screen.
Between the bypass cap, and the screen.
Not between the bypass cap, and the supply.

You want to isolate the capacitance from the screen.
That will break the loop required for oscillation.

From -381360282959094082

```
X-Google-Thread: fc2a5,1454424222061fe6
X-Google-Thread: fc8b1,1454424222061fe6
X-Google-Thread: 112d1e,1454424222061fe6
X-Google-Attributes: gidfc2a5,gidfc8b1,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newscon05.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr17.news.prodigy.net.POSTED!35cb456c!not-for-mail
From: "N9WOS" <N9WOS@nobug.sbcglobal.net>
Newsgroups: 
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.design
References: <1167753329.259479.53680@k21g2000cwa.googlegroups.com> 
<qVHmh.42067$wc5.14987@newssvr25.news.prodigy.net> <rxRmh.542$Be.78@trndny06>
Subject: Re: Squegging in LC oscillators
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <5WRmh.8851$x67.6210@newssvr17.news.prodigy.net>
NNTP-Posting-Host: 66.72.68.78
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr17.news.prodigy.net 1167846145 ST000 66.72.68.78 (Wed, 03 Jan 2007 
12:42:25 EST)
NNTP-Posting-Date: Wed, 03 Jan 2007 12:42:25 EST
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1: 
Q[R_@S^DLXSMR_H]]RKB_UDAZZ\DPCPDLXUNNHLHQAVTUZ]CLNTCPFK[WDXDHV[K^FCGJCJLPF_D_NCC@F
UG^Q\DINVAXSLIFXYJSSCCALP@PB@\OS@BITWAH\CQZKJMMD^SJA^NXA\GVLSRBD^M_NW_F[YLVTWIGAXA
QBOATKBBQRXECDFDMQ\DZFUE@\JM
Date: Wed, 3 Jan 2007 12:42:32 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8537 
rec.radio.amateur.boatanchors:6978 sci.electronics.design:138140
```

> When you don't want oscillation, it will oscillate
> When you want oscillation, it won't
> When you want to get rid of squegging, you can't
> When you want squegging, it won't

I have a hard problem making a amplifier that can put out a solid 1.8Mhz
signal.
But I can build a DC power supply that produces a quality 80Mhz signal.

Maybe, if i want an oscillator, I should try to build a DC supply circuit,
and vice versa.
I will figure it out one of these days.

> Do all Parisitics (sic) come from Paris? :-)
>
> Ed

They always talk about the French whine. :-)

From -8202303105278037249
X-Google-Thread: fc2a5,1454424222061fe6
X-Google-Thread: fc8b1,1454424222061fe6
X-Google-Thread: 112d1e,1454424222061fe6
X-Google-Attributes: gidfc2a5,gidfc8b1,gid112d1e,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newscon02.news.prodigy.net!
prodigy.net!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!
news.sisna.com!not-for-mail
From: "RST Engineering" <jim@rstengineering.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.design
References: <1167753329.259479.53680@k21g2000cwa.googlegroups.com>
<qVHmh.42067$wc5.14987@newssvr25.news.prodigy.net>
<1167841168.858478.151170@n51g2000cwc.googlegroups.com>
<MZSdnVSZvqcOQAbYnZ2dnUVZ_sDinZ2d@web-ster.com>
Subject: Re: Squegging in LC oscillators
Lines: 29
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <wFUmh.15$cr3.115826@news.sisna.com>
Date: Wed, 3 Jan 2007 12:49:18 -0800
NNTP-Posting-Host: 70.41.242.222
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1167857372 70.41.242.222 (Wed, 03 Jan 2007 13:49:32 MST)
NNTP-Posting-Date: Wed, 03 Jan 2007 13:49:32 MST
Organization: Internet News Service
X-Received-Date: Wed, 03 Jan 2007 13:49:32 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8538
rec.radio.amateur.boatanchors:6981 sci.electronics.design:138207

Since a 220 pf capacitor with �" leads self-resonates somewhere around 150 MHz., you might want to do the old "put a variable capacitor between screen and cathode and tune for minimum squeeg" trick. All you are doing is making a series resonant circuit with the stray inductance of the tube and the variable capacitor to short whatever nasties you don't want out.

Jim

"Tim Wescott" <tim@seemywebsite.com> wrote in message
news:MZSdnVSZvqcOQAbYnZ2dnUVZ_sDinZ2d@web-ster.com...
> Tim Shoppa wrote:
>> N9WOS wrote:

> Even a 1nF chip cap soldered directly between the screen lead and cathode
> of the tube would have the internal tube lead inductances to contend with,
> so you're probably never going to 'get there from here' by that method.
>
> I wonder if a loading resistor in the screen lead instead of the grid
> would work?
>
> --
>
> Tim Wescott
> Wescott Design Services
> http://www.wescottdesign.com

From -3937370584677630799
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 03 Jan 2007 15:46:41 -0600
Date: Wed, 03 Jan 2007 21:46:39 +0000
From: charlie <wehatespam@wymsey.co.uk>
User-Agent: Thunderbird 1.5.0.9 (X11/20060911)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: cut out the Bullshit or turn in your license and imporve the
 service SC
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
<mjc8o21aejleg93ihviietqngd6jqa6003@4ax.com>
<458455D4.6070709@coboxincORORATED.com>
<1167361053.909725.206720@k21g2000cwa.googlegroups.com>
<1167364149.514586.39870@k21g2000cwa.googlegroups.com>
<1167366545.563639.106660@s34g2000cwa.googlegroups.com>
<nNmdnQ_X6cIfpgTYnZ2dnUVZ8sKlnZ2d@pipex.net>
<Xns98ABD1E9068E5mcoslocomcastnet@216.196.97.136>
In-Reply-To: <Xns98ABD1E9068E5mcoslocomcastnet@216.196.97.136>
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Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-ID: <iMydnR1maqHfuQHYRVnyvQA@pipex.net>
Lines: 22
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7ChK257Yb2BRpwg7HC9QJXzS1X8b2O3Fh6f4TaeLeGdRVNEfypZBvfpDpMaioshbZ4qxbzqbLnXw!
LQtIXpgP9UM/zA==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net

X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8539

Mike Coslo wrote:

<SNIP>

> Oh dear, another person who absolutely knows what every single
> American is all about.
>
> - 73 de Mike KB3EIA -

Don't be silly, of course not every American just the extremists. I
was just yanking the chain of the idiot who thought that turning
over the amateur bands to the FCC was a good idea and would be the
end of the hobby.

Charlie.

PS: Just to indicate that I am not being anti-American my experience
of Americans in the mid west, New York and on the west coast has
been good. Plus I am married to an American from Jersey!

--
www.wymsey.co.uk

From 1702840505521222359
X-Google-Thread: fc2a5,e9be391d890cd9bc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!sn-xt-sjc-03!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@Yahoo.Com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How hard for a spy to receive 6855 or 8010 kHz?
Date: Thu, 4 Jan 2007 07:41:12 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12pq80lhul4aa37@corp.supernews.com>
References: <U4KdnUv85tC57AjYnZ2dnUVZ_uiknZ2d@comcast.com>
<12pb3bt4abitda5@corp.supernews.com> <ena0cb$1t0$1@theodyn.ncf.ca>
<zVamh.547$Am5.383@trndny03>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 19
Xref: g2news2.google.com rec.radio.amateur.homebrew:8540

"W3JDR" <joe@roccis.com> wrote in message news:zVamh.547$Am5.383@trndny03...

>I think using radio broadcasts as a means to communicate information to a global 'spy' network has become passe. Modern spy and terrorist networks increasingly use a method called 'Steganography' to hide messages and data inside picture files or other media files that are easily posted through the internet.

If you're in a western country, sure... but I imagine there's still plenty of spying going on in eastern Europe, the middle east, Asia, etc. where Internet connections are nowhere near as easy to come by.

Of course there is satellite communication, but that's significantly more costly for everyone involved. Plenty of spying is just going to, e.g., local libraries, government officies, etc. and turning the vast volumes of data that if freely available into useful *information* for your own government... a very ho-hum sort of job that requires little if any technology.

```
From 5368078416388129135
X-Google-Thread: fc2a5,5743317e828d1035,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!
news.tele.dk!feed118.news.tele.dk!news.tele.dk!small.news.tele.dk!
newsfeed1.swip.net!swipnet!newsfeed1.funet.fi!newsfeeds.funet.fi!
feeder1.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: "Ceriel Nosforit" <ceriel@googlemail.com>
Subject: Making vari-caps for ATU
Newsgroups: rec.radio.amateur.homebrew
Organization: Guerilla Computing
X-Face: 'BO/KG^w;,{wBozPy|^Wq~_NPJhKO0E/c9/wmO~};`Yg\g2;g4AAGqlwa^~Je7u6H$%*WEyP"}
{55=7!YAM/`0D~8)Y{+#?+ak;Gv__9WsE4QzeLAu0)n9e2Yd]02LZ-Vv&(&`=%
User-Agent: pan 0.115 (Mrs. Kerr Says Remember the Tip Jar)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 46
Message-ID: <VD9nh.19224$AX.15603@reader1.news.saunalahti.fi>
Date: Thu, 04 Jan 2007 16:08:21 GMT
NNTP-Posting-Host: 80.186.169.2
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1167926901 80.186.169.2 (Thu, 04 Jan 2007
18:08:21 EET)
NNTP-Posting-Date: Thu, 04 Jan 2007 18:08:21 EET
Xref: g2news2.google.com rec.radio.amateur.homebrew:8541
```

Hi all!

I couldn't find a place that sells this type of variable capacitators, so

I decided to build my own, but I think I could use the feedback of people who actually know what they're doing. Since I know none, I had to settle for r.r.a.h. (Just kidding!! ;D)

I don't have a DX license yet. I'll probably get one last when I decide I want to build a transmitter, but it'll be a good while until I know enough to do that. An ATU seemed a simple enough curcuit to start with, and it seems I'll be building every part of it from scratch. So, too late to cut to the chase, what I'm planning is using

32 aluminum plates
200 x 50 x 2 mm each
cut diagonally in half
to make 64 plates total
40 cm^2 actual surface area each
spaced 3 mm apart.

This should make a cap weighting in at 743 pF with a voltage tolerance of almost 9 kV according to the KI6GD Capacitator Calculator, if I'm using it right. I'm going to build two of them. It should be... enough. :)

http://img413.imageshack.us/my.php?image=pict3833tj4.jpg
http://img138.imageshack.us/my.php?image=pict3834eu7.jpg

First pic is of the plates I'm going to cut, and second is my schematic.

As you can see I'm going for an unusual shape with the plates. This is to minimize my work load. I'll just have to cut straight, drill a hole and file down the corners to prevent corona discharge. Once the caps are complete I'll just measure their values at different levels and make a chart or scale.

So r.r.a.h, if you are still reading, what has this humble newbie already screwed up? I know the sensitivity is going to be extremely high, but I should be able to fix that with some simple mechanics. My old LEGO bricks should do the trick, come to think of it...

Thank you very much for reading. Hope to see a reply, even if it's just "Go for it!" or "You've got it all backwards".

--
Sincerely,
Nosforit

```
From 8677245094706985704
X-Google-Thread: fc2a5,1454424222061fe6
X-Google-Thread: fc8b1,1454424222061fe6
X-Google-Thread: 112d1e,1454424222061fe6
X-Google-Attributes: gidfc2a5,gidfc8b1,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!6g2000cwy.googlegroups.com!not-for-
mail
```

From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.design
Subject: Re: Squegging in LC oscillators
Date: 4 Jan 2007 08:39:34 -0800
Organization: http://groups.google.com
Lines: 31
Message-ID: <1167928774.373956.293350@6g2000cwy.googlegroups.com>
References: <1167753329.259479.53680@k21g2000cwa.googlegroups.com>
   <qVHmh.42067$wc5.14987@newssvr25.news.prodigy.net>
NNTP-Posting-Host: 170.121.15.35
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X-Trace: posting.google.com 1167928780 3225 127.0.0.1 (4 Jan 2007 16:39:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 4 Jan 2007 16:39:40 +0000 (UTC)
In-Reply-To: <qVHmh.42067$wc5.14987@newssvr25.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
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Xref: g2news2.google.com rec.radio.amateur.homebrew:8542
rec.radio.amateur.boatanchors:6997 sci.electronics.design:138514

N9WOS wrote:
> You also want to take a careful look at the screen circuit.
> It can also act like an output in a parasitic oscillation.
> So, try putting a 100, or 1K resistor in series with it too.

Indeed this is a working fix, as I verified on the bench.

> It's oscillating cycle.
> It starts it's HF oscillation gain cycle.

Actually in my particular case it appears that the UHF parasitic starts first. But probably just the luck of the bias point.

> The signal grows, and the tube bias increases.
> The current on the positive peaks grown with it.
> The current on the positive peaks get to the point that
> the tube breaks into UHF oscillation.
> The UHF oscillations are several times larger than the intended oscillation.

Very true here - this is in fact the only time I've seen 400MHz stuff on my 100MHz scope, so I'm guessing that there is substantial UHF energy there.

> The UHF oscillation only last a fraction of the high frequency cycle.

This part is very true too. Tiny tiny fraction of a microsecond. My interpretation of the scope trace is that the UHF activity gives the

the HF tank a "kick" and it rings for a while.

Tim.

From 8725987730621548858
X-Google-Thread: fc2a5,5743317e828d1035
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v33g2000cwv.googlegroups.com!not-for-mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Making vari-caps for ATU
Date: 4 Jan 2007 09:56:29 -0800
Organization: http://groups.google.com
Lines: 73
Message-ID: <1167933389.928144.71860@v33g2000cwv.googlegroups.com>
References: <VD9nh.19224$AX.15603@reader1.news.saunalahti.fi>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167933395 14208 127.0.0.1 (4 Jan 2007 17:56:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 4 Jan 2007 17:56:35 +0000 (UTC)
In-Reply-To: <VD9nh.19224$AX.15603@reader1.news.saunalahti.fi>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.9) Gecko/20061206 Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v33g2000cwv.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:8543

Ceriel Nosforit wrote:
> Hi all!
>
> I couldn't find a place that sells this type of variable capacitators, so
> I decided to build my own, but I think I could use the feedback of people
> who actually know what they're doing. Since I know none, I had to settle
> for r.r.a.h. (Just kidding!! ;D)
>
> I don't have a DX license yet. I'll probably get one last when I decide I
> want to build a transmitter, but it'll be a good while until I know enough
> to do that. An ATU seemed a simple enough curcuit to start with, and it
> seems I'll be building every part of it from scratch. So, too late to cut
> to the chase, what I'm planning is using
>
> 32 aluminum plates
> 200 x 50 x 2 mm each
> cut diagonally in half

> to make 64 plates total
> 40 cm^2 actual surface area each
> spaced 3 mm apart.
>
> This should make a cap weighting in at 743 pF with a voltage tolerance of almost 9 kV according to the KI6GD Capacitator Calculator, if I'm using it right. I'm going to build two of them. It should be... enough. :)
>
> http://img413.imageshack.us/my.php?image=pict3833tj4.jpg
> http://img138.imageshack.us/my.php?image=pict3834eu7.jpg
>
> First pic is of the plates I'm going to cut, and second is my schematic.
>
> As you can see I'm going for an unusual shape with the plates. This is to minimize my work load. I'll just have to cut straight, drill a hole and file down the corners to prevent corona discharge. Once the caps are complete I'll just measure their values at different levels and make a chart or scale.
>
> So r.r.a.h, if you are still reading, what has this humble newbie already screwed up? I know the sensitivity is going to be extremely high, but I should be able to fix that with some simple mechanics. My old LEGO bricks should do the trick, come to think of it...
>
> Thank you very much for reading. Hope to see a reply, even if it's just "Go for it!" or "You've got it all backwards".
>
> --
> Sincerely,
> Nosforit

Well, this is basically a "go for it." I'm not quite clear on how you are going to stack up the plates when you're done...what holds them in position and so forth. One advantage of the "normal" semicircular plates is that there's not such a long piece of metal hanging off the rotor shaft as you will have, assuming the shaft runs through the "pointy" end of the rotor pieces. Beware of what vibration does to you, in other words. As thick as your plates are, I suppose that won't be a problem.

The widest-range variable I have is built with circular plates, with a tab off the edge of each through which the rotating shaft goes. There are actually two rotors, which are coupled through equal-size gears on each shaft, so one rotates clockwise as the other rotates counterclockwise. The plates go from full mesh to full separation, and give over 100:1 capacitance ratio from max to min. The shafts must be insulated from each other, of course. There's some advantage to a capacitor with a wide tuning range in an ATU, in getting the ATU to be able to cover a wide range of matching impedances over a wide range of frequencies. Anyway, I suppose you could do something similar with your rectangular plates.

Cheers,

Tom

```
From 8808095661847839022
X-Google-Thread: fc2a5,fd53641fbb970225,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!51g2000cwl.googlegroups.com!not-for-
mail
From: "Joe" <nuisancewildlife@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Wireless video transmission
Date: 4 Jan 2007 10:57:53 -0800
Organization: http://groups.google.com
Lines: 25
Message-ID: <1167937073.490408.90480@51g2000cwl.googlegroups.com>
NNTP-Posting-Host: 71.174.175.74
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1167937078 22971 127.0.0.1 (4 Jan 2007 18:57:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 4 Jan 2007 18:57:58 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 51g2000cwl.googlegroups.com; posting-host=71.174.175.74;
   posting-account=fRO72A0AAAAx72wd1k0VmvsrUHv_TX3P
Xref: g2news2.google.com rec.radio.amateur.homebrew:8544
```

Hi Folks,

I just found this group. Not sure if this is the right place to ask, but here goes:

I am presently a student studying for my MSc in Applied Physics. Next semester I have a course in Electronics which is going to require me to do a project. Now I have worked with radio control vehicles before (ROV's), but this time, I wanted to build a vehicle and have it be semi autonomous, ie with a microcontroller. Along with that, I will need a fairly long range (say, 1 mile) video transmitter to put "eyes" on the vehicle. I have worked with the short range, commercially available wireless video cameras that use the pinhole camera and have a range of about 300 feet unobstructed. I was wondering if anyone on this forum knows of a kit that I could purchase to build one myself (I may be mistaken, but an assembled unit probably costs a lot more). If this is not the right forum, pls let me know that too. Links, ideas, etc are welcomed.

TIA,

Joe

KB1KVI
(kilo bravo1 kilo victor India)

```
From 8475899959078540983
X-Google-Thread: fc2a5,5743317e828d1035
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!newsgate.cistron.nl!
transit.news.xs4all.nl!xs4all!news2.euro.net!213.132.189.2.MISMATCH!
multikabel.net!feed20.multikabel.net!border1.nntp.ams.giganews.com!
border2.nntp.ams.giganews.com!nntp.giganews.com!feeder2.news.saunalahti.fi!
reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: "Ceriel Nosforit" <ceriel@googlemail.com>
Subject: Re: Making vari-caps for ATU
Newsgroups: rec.radio.amateur.homebrew
References: <VD9nh.19224$AX.15603@reader1.news.saunalahti.fi>
     <1167933389.928144.71860@v33g2000cwv.googlegroups.com>
Organization: Guerilla Computing
X-Face: 'BO/KG^w;,{wBozPy|^Wq~_NPJhKO0E/c9/wmO~};`Yg\g2;g4AAGqlwa^~Je7u6H$%*WEyP"}
{55=7!YAM/`0D~8)Y{+#?+ak;Gv__9WsE4QzeLAu0)n9e2Yd]02LZ-Vv&(&`=%
User-Agent: pan 0.115 (Mrs. Kerr Says Remember the Tip Jar)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 59
Message-ID: <_Tcnh.19402$rg4.10351@reader1.news.saunalahti.fi>
Date: Thu, 04 Jan 2007 19:50:18 GMT
NNTP-Posting-Host: 80.186.169.2
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1167940218 80.186.169.2 (Thu, 04 Jan 2007
21:50:18 EET)
NNTP-Posting-Date: Thu, 04 Jan 2007 21:50:18 EET
Xref: g2news2.google.com rec.radio.amateur.homebrew:8545
```

Alas, on the wretched hour of Thu, 04 Jan 2007 09:56:29 -0800 K7ITM
thusly proclaimed:

> Ceriel Nosforit wrote:

<measure twice, snip once>

> Well, this is basically a "go for it." I'm not quite clear on how you
> are going to stack up the plates when you're done...what holds them in
> position and so forth. One advantage of the "normal" semicircular
> plates is that there's not such a long piece of metal hanging off the
> rotor shaft as you will have, assuming the shaft runs through the
> "pointy" end of the rotor pieces. Beware of what vibration does to you,
> in other words. As thick as your plates are, I suppose that won't be a
> problem.
>
> The widest-range variable I have is built with circular plates, with a

> tab off the edge of each through which the rotating shaft goes. There are actually two rotors, which are coupled through equal-size gears on each shaft, so one rotates clockwise as the other rotates counterclockwise. The plates go from full mesh to full separation, and give over 100:1 capacitance ratio from max to min. The shafts must be insulated from each other, of course. There's some advantage to a capacitor with a wide tuning range in an ATU, in getting the ATU to be able to cover a wide range of matching impedances over a wide range of frequencies. Anyway, I suppose you could do something similar with your rectangular plates.
>
> Cheers,
> Tom

Hello Tom. Thank you for your reply. :)

I'll separate the plates with spacer disks and bolts on a 6 mm threaded steel rod, indeed through the pointy ends. 6 mm is IMO too thin on its own, but the disks and bolts should add a lot of stability. The entire thing will be propped up on plexiglass plates at the ends, and I'll have one additional 6 mm threaded steel rod where I marked 60 degrees on my schematic. If it still not stable I'll add something to the top and bottom to keep the rods stretched straight. If that still isn't enough, I'll have to build some sort of support for the mid-section.

The blades will separate from each other more than completely, if I want to. I don't know the electrical implications of what would happen if I did so. I guess at some point the curcuit would simply be broken... Maybe permanently? Either way, infinite ratio from max to min. ;)

I plan on either adding a counter-weight, a rubber band, or some mechanics to keep the rotor from simply falling down. A counter-weight should give a nice 'feel' to the dials, which is very important for any sense of "quality".

If the parts of the ATU turn out reasonably pretty I'll make an enclosure largely out of plexiglass for them. A cardboard box is however a lot more likely. I expect the end result to look horrible and work marginally better. XD

--
Nos

From 1941618333385206137
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!v33g2000cwv.googlegroups.com!not-for-mail

```
From: "ablebravo" <aburnham@triad.rr.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
Subject: Re: Do no-code hams wipe their butts?
Date: 4 Jan 2007 13:49:58 -0800
Organization: http://groups.google.com
Lines: 9
Message-ID: <1167947398.716142.219360@v33g2000cwv.googlegroups.com>
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net>
NNTP-Posting-Host: 66.194.220.89
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167947404 15551 127.0.0.1 (4 Jan 2007 21:50:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 4 Jan 2007 21:50:04 +0000 (UTC)
In-Reply-To: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.5) Gecko/20041107
Firefox/1.0,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: v33g2000cwv.googlegroups.com; posting-host=66.194.220.89;
   posting-account=eJUP5g0AAABMoNQWUpO0wJ5vGBjnJOuD
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7002
rec.radio.amateur.homebrew:8546 rec.radio.amateur.policy:61133
rec.radio.scanner:8463
```

QRT
you are QRM

Slow Code wrote:

> If they're to lazy to learn CW for good radio skills, they might be too
> lazy to use toilet paper for good hygiene.
>
> SC

```
From -5422519739893258263
X-Google-Thread: fc2a5,5743317e828d1035
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!51g2000cwl.googlegroups.com!not-for-
mail
From: jgboyles@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Making vari-caps for ATU
Date: 4 Jan 2007 15:19:59 -0800
Organization: http://groups.google.com
Lines: 12
Message-ID: <1167952799.455969.323300@51g2000cwl.googlegroups.com>
References: <VD9nh.19224$AX.15603@reader1.news.saunalahti.fi>
   <1167933389.928144.71860@v33g2000cwv.googlegroups.com>
   <_Tcnh.19402$rg4.10351@reader1.news.saunalahti.fi>
NNTP-Posting-Host: 152.163.100.65
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167952804 22240 127.0.0.1 (4 Jan 2007 23:20:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 4 Jan 2007 23:20:04 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 5.1; .NET
CLR 1.0.3705; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 Turboweb
[rtc-te033 8.4.1], HTTP/1.1 cache-rtc-ab01.proxy.aol.com[98A36441] (Traffic-
Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: 51g2000cwl.googlegroups.com; posting-host=152.163.100.65;
   posting-account=Xsny5QwAAACH3aqqoi-j8SncnYoXKFtQ
Xref: g2news2.google.com rec.radio.amateur.homebrew:8547
```

Ten Tec in USA offers a variable capacitor kit, max C is 500pf @ ~5kv.
Cost is about $80 USD. Takes about a hour to assemble. I use them in
a 1.5kw ATU and they work fine. Kit #1207.

If you get all the parts, cut them up, and assemble the whole thing,
homebrew, makes the $80 price tag seem reasonable. I could see you
spending more than half on just materials.

Good Luck,
Gary N4AST

```
From 5385925145545291605
X-Google-Thread: fc2a5,fd53641fbb970225
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i15g2000cwa.googlegroups.com!not-for-
mail
From: sailtamarack@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wireless video transmission
Date: 4 Jan 2007 17:33:50 -0800
Organization: http://groups.google.com
Lines: 47
Message-ID: <1167960830.905828.31730@i15g2000cwa.googlegroups.com>
References: <1167937073.490408.90480@51g2000cwl.googlegroups.com>
NNTP-Posting-Host: 70.66.135.162
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167960836 9281 127.0.0.1 (5 Jan 2007 01:33:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 5 Jan 2007 01:33:56 +0000 (UTC)
User-Agent: G2/1.0
```

X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i15g2000cwa.googlegroups.com; posting-host=70.66.135.162;
   posting-account=gXcV3gwAAACKhdV_aZ9TbpV32cSAnBGe
Xref: g2news2.google.com rec.radio.amateur.homebrew:8548

Joe wrote:

> Hi Folks,
>
> I just found this group. Not sure if this is the right place to ask, but here goes:
>
> I am presently a student studying for my MSc in Applied Physics. Next semester I have a course in Electronics which is going to require me to do a project. Now I have worked with radio control vehicles before (ROV's), but this time, I wanted to build a vehicle and have it be semi autonomous, ie with a microcontroller. Along with that, I will need a fairly long range (say, 1 mile) video transmitter to put "eyes" on the vehicle. I have worked with the short range, commercially available wireless video cameras that use the pinhole camera and have a range of about 300 feet unobstructed. I was wondering if anyone on this forum knows of a kit that I could purchase to build one myself (I may be mistaken, but an assembled unit probably costs a lot more). If this is not the right forum, pls let me know that too. Links, ideas, etc are welcomed.
>
> TIA,
>
> Joe
> KB1KVI
> (kilo bravo1 kilo victor India)

Joe,

Before suggesting anything it would be helpful to know a little bit more about the requirements. Are you considering analog or digital TV transmission? What frame rate is required? How many horizontal lines? B/W or color? Are you planning on using amateur radio or unlicensed frequency bands? How long are the transmissions? Any size/weight constraints?

There are many tradeoffs to be considered. For example if you are sending digital pictures, the frame rate, vertical and horizontal resolution, and color depth will dictate the data rate in bits/second. Based on a given data rate there will now be tradeoffs in terms of frequency band, power, bandwidth, SNR, antenna size, power supply requirements etc.

We also need to know if you are considering building something at the component level or whether you are trying to use off-the-shelf modules.

Sounds like a fun project - Roger

```
From 4003520634463493075
X-Google-Thread: fc2a5,fd53641fbb970225
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!11g2000cwr.googlegroups.com!not-for-
mail
From: "Joe" <nuisancewildlife@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wireless video transmission
Date: 4 Jan 2007 18:46:30 -0800
Organization: http://groups.google.com
Lines: 105
Message-ID: <1167965190.769472.91110@11g2000cwr.googlegroups.com>
References: <1167937073.490408.90480@51g2000cwl.googlegroups.com>
   <1167960830.905828.31730@i15g2000cwa.googlegroups.com>
NNTP-Posting-Host: 71.174.177.149
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167965196 19859 127.0.0.1 (5 Jan 2007 02:46:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 5 Jan 2007 02:46:36 +0000 (UTC)
In-Reply-To: <1167960830.905828.31730@i15g2000cwa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 11g2000cwr.googlegroups.com; posting-host=71.174.177.149;
   posting-account=fRO72A0AAAAx72wd1k0VmvsrUHv_TX3P
Xref: g2news2.google.com rec.radio.amateur.homebrew:8549


sailtamarack@yahoo.ca wrote:
> Joe wrote:
> > Hi Folks,
> >
> > I just found this group. Not sure if this is the right place to ask,
> > but here goes:
> >
> > I am presently a student studying for my MSc in Applied Physics. Next
> > semester I have a course in Electronics which is going to require me to
> > do a project. Now I have worked with radio control vehicles before
> > (ROV's), but this time, I wanted to build a vehicle and have it be semi
> > autonomous, ie with a microcontroller. Along with that, I will need a
> > fairly long range (say, 1 mile) video transmitter to put "eyes" on the
> > vehicle. I have worked with the short range, commercially available
> > wireless video cameras that use the pinhole camera and have a range of
> > about 300 feet unobstructed. I was wondering if anyone on this forum
> > knows of a kit that I could purchase to build one myself (I may be
> > mistaken, but an assembled unit probably costs a lot more). If this is
> > not the right forum, pls let me know that too. Links, ideas, etc are
```

> > welcomed.
> >
> > TIA,
> >
> > Joe
> > KB1KVI
> > (kilo bravo1 kilo victor India)
>
> Joe,
>
> Before suggesting anything it would be helpful to know a little bit
> more about the requirements. Are you considering analog or digital TV
> transmission? What frame rate is required? How many horizontal lines?
> B/W or color? Are you planning on using amateur radio or unlicensed
> frequency bands? How long are the transmissions? Any size/weight
> constraints?
>
> There are many tradeoffs to be considered. For example if you are
> sending digital pictures, the frame rate, vertical and horizontal
> resolution, and color depth will dictate the data rate in bits/second.
> Based on a given data rate there will now be tradeoffs in terms of
> frequency band, power, bandwidth, SNR, antenna size, power supply
> requirements etc.
>
> We also need to know if you are considering building something at the
> component level or whether you are trying to use off-the-shelf modules.
>
> Sounds like a fun project - Roger

Hello Roger,

Whew! Well, I am glad you asked. I would like to use the KISS principle, if you know what I mean. I will try to answer in the order you asked: Analog TV, actually, I would like to use my own TV, like maybe cable channel 59 (I know we have some video bandwidth around there, 70cm) at least for the initial close to home testing. However, there is a possibility (remember, this is still a work in progress) that I will want to monitor the video from my vehicle in a field type test situation, in which case I have a couple of smaller color monitors that run on 12V and use RCA phone jacks, so I would need a receiver box to plug into the monitor. Definitely color TV and I thought that , given the range requirement of about a mile, I would need to use the amateur band. If not, that's fine too. Length of transmissions, now I hadn't thought about that one. I was planning on sending him on his way, as I said, semi autonomously (with a microcontroller taking care of all the things like not bumping into anything, going off cliffs, or ending up in the drink), and then send a command (possibly DTMF thru walkie talkie) to switch on the video and start monitoring where he (well, it) was located and what he was seeing. The size, weight and power constraints: It is to be an all terrain type vehicle, right now I am planning on using a steel platform (actually, one of those radio flyer wagons) which weighs about 10 lbs unloaded. I would estimate that after adding the motors and wheels (big wheels, like maybe 12-14 inch diameter), 12V deep cycle battery (about another 40 to 60 lbs), I may be able to accomodate another 5 lbs or so for the camera, and transmitter, and possibly another separate power supply (battery) for the camera since I will be using a 6V (4.5AH) battery to power the microcontroller and associated electronics, sensors and whatnot. I would rather have the 12V battery powering the DC motors that will be propelling him forward (they will probably be pulling 3-5 Amps each). So there will also probably be inductive 'noise' from the motors as well, but I believe I can shield most of that, if necessary. I always prefer to use off the shelf items, but I can do some soldering and putting kits together also. I guess to summarize, it is very flexible in this stage, as I haven't gotten the motors or wheels together yet, I am still planning all this and trying to cover all my bases so that I can have something working possibly by the early summer when semester ends. I have done this before, but on a much smaller scale and limited only to ROV's using off the shelf radio control non amateur band. I realize there will have to be tradeoffs, e.g., I may have to go with black and white instead of color, I may not need a mile range for the video transmission,etc. I think TV resolution is 480 lines. That would be ideal. I guess I am wondering what is out there for me to choose from and then tailor make this part of the project based on my budget and what is available. Also, I may not necessarily be line of sight when I will be needing the video (in a field test situation). I really don't know about transmission times.

Oh yes, it's going to be fun..It already is :--]]]

Joe
KB1KVI
 (kilo bravo1 kilo victor India)

```
From 852155021563526196
X-Google-Thread: fc2a5,fd53641fbb970225
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!38g2000cwa.googlegroups.com!not-for-mail
From: sailtamarack@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wireless video transmission
Date: 4 Jan 2007 20:04:58 -0800
Organization: http://groups.google.com
Lines: 19
Message-ID: <1167969898.502554.227530@38g2000cwa.googlegroups.com>
References: <1167937073.490408.90480@51g2000cwl.googlegroups.com>
   <1167960830.905828.31730@i15g2000cwa.googlegroups.com>
   <1167965190.769472.91110@11g2000cwr.googlegroups.com>
NNTP-Posting-Host: 70.66.135.162
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
```

X-Trace: posting.google.com 1167969903 31217 127.0.0.1 (5 Jan 2007 04:05:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 5 Jan 2007 04:05:03 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 38g2000cwa.googlegroups.com; posting-host=70.66.135.162;
   posting-account=gXcV3gwAAACKhdV_aZ9TbpV32cSAnBGe
Xref: g2news2.google.com rec.radio.amateur.homebrew:8550

Joe,

Given that you plan to transmit analog television transmission you will want to operate on the ham bands. The unlicensed stuff will not have the 1 mile range given the bandwidth and SNR requirements.

I suggest you get a recent copy of the ARRL Handbook. Chapter 9 has a section on Amateur Television (ATV) and Radio Control. There is an example of ATV mounted on a model Humvee.

There is a lot of good info on the ARRL site at
http://www.arrl.org/tis/info/atv.html

Google is your friend - a search on "amateur television" gave lots of sites with interesting equipment that can be purchased or built. There are groups and forums where you will get lots of practical tips.

Roger

From 3212757016346199748
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: 10f7a7,39cbbe7552db04b4
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gid10f7a7,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s80g2000cwa.googlegroups.com!not-for-mail
From: brian.burp@yahoo.com
Newsgroups: rec.radio.amateur.boatanchors,alt.usenet.kooks,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.scanner
Subject: Re: Do Pro-code hams wipe their butts?
Date: 5 Jan 2007 00:10:58 -0800
Organization: http://groups.google.com
Lines: 41
Message-ID: <1167984658.886994.75130@s80g2000cwa.googlegroups.com>
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net>
   <F4Xeh.4564$qp1.2522@tornado.texas.rr.com>

```
   <zwBmh.354$A8.126@news-server.bigpond.net.au>
   <459aec63$0$2646$ecde5a14@news.coretel.net>
   <o48mp21bris73ahufp6t7v7o5448nd1nmf@4ax.com>
NNTP-Posting-Host: 67.150.84.12
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167984665 1640 127.0.0.1 (5 Jan 2007 08:11:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 5 Jan 2007 08:11:05 +0000 (UTC)
In-Reply-To: <o48mp21bris73ahufp6t7v7o5448nd1nmf@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.12)
Gecko/20050915 Firefox/1.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s80g2000cwa.googlegroups.com; posting-host=67.150.84.12;
   posting-account=0_f6sg0AAADQVyfUJ5pnPSbnHVic07nz
Xref: g2news2.google.com rec.radio.amateur.boatanchors:7009
alt.usenet.kooks:288380 rec.radio.amateur.homebrew:8551
rec.radio.amateur.policy:61169 rec.radio.scanner:8466

STFU MARQUEER!
Mark@kb9rqz.aprs wrote:
> On Tue, 2 Jan 2007 18:36:14 -0500, "Radiosrfun"
> <Radiosrfun@radiosrfun.com> wrote:
>
> >"Lushy" <david.lush@bigpond.com> wrote in message
> >news:zwBmh.354$A8.126@news-server.bigpond.net.au...
> >> U-Know-Who wrote:
> >>> "Slow Code" <my.mail@no.spam> wrote in message
> >>> news:JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net...
> >>>> If they're to lazy to learn CW for good radio skills, they might be
> >>>> too lazy to use toilet paper for good hygiene.
> >>>>
> >>>> SC
> >>>
> >>> Well SC, just open the stall next time you're on duty at your job of
> >>> restroom attendant at the hamfest. You'll have your answer.  And I
> >>> ain't tippin you for that damn "Brut" cologne you hawk!
> >>
> >> OOOOH Jesus
> >>
> >
> >SC has been bragging for quite some time now about No-Coders - but has "yet"
> >to show where "he" has ever been licensed as a ham at all let alone "with"
> >code. I don't care to give my call here - but have in the past and will
> >again if asked. It doesn't prove a thing one way or another. My call -
> >though I'm an extra - happens to be my old KA Novice Call sign. Been an
> >extra quite a while. Went from Novice - Technician (80s) - Advanced - Extra.
> kd7adl has come forward claiming to be Slow Code
> >
> >It is amazing you guys keep him in entertainment by acknowledging his
> >ridiculous remarks. GET A LIFE - SC -whether we like it or not - CODE IS
> >GONE. You're beating a horse that has been dead quite a while. You've been
> >on this stupid kick for about 5 months now. Don't you have anything better
> >to do?
> >
> http://kb9rqz.blogspot.com/
>
> --
> Posted via a free Usenet account from http://www.teranews.com



From -7616082550092114418
X-Google-Thread: fc2a5,7f8801ef53fc619
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i15g2000cwa.googlegroups.com!not-for-
mail
From: "Telstar Electronics" <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: relay needed
Date: 5 Jan 2007 04:59:19 -0800
Organization: http://groups.google.com
Lines: 9
Message-ID: <1168001959.568931.164050@i15g2000cwa.googlegroups.com>
References: <3cadnSm3lJJBFwfYnZ2dnUVZ_h-vnZ2d@comcast.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1168001965 9898 127.0.0.1 (5 Jan 2007 12:59:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 5 Jan 2007 12:59:25 +0000 (UTC)
In-Reply-To: <3cadnSm3lJJBFwfYnZ2dnUVZ_h-vnZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i15g2000cwa.googlegroups.com; posting-host=216.203.30.4;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news2.google.com rec.radio.amateur.homebrew:8552


B wrote:
> Need a source foa NCX-3 NCX-5 Relay T154-6C-115VDC  9000 OHM COIL  found
>     some but they are $38.34 each  TNX JB

Who is the manufacturer?

www.telstar-electronics.com



From -8898143728548144812
X-Google-Thread: fc2a5,fd53641fbb970225
X-Google-Attributes: gidfc2a5,public
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe05.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1167937073.490408.90480@51g2000cwl.googlegroups.com>
<1167960830.905828.31730@i15g2000cwa.googlegroups.com>
<1167965190.769472.91110@11g2000cwr.googlegroups.com>
Subject: Re: Wireless video transmission
Lines: 34
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <INtnh.48$Bz5.28@newsfe05.lga>
X-Trace:
hikehalegljkcnnfkannfilpcpbbolnmfkbihloohgdbojmnnicfceledepkikoolhlefpnpglhfdcnhkj
lcpnalhhmpknmegdpklbagjikbenhcbckiheogjkmdhgcdollnekbclkhfkbie
NNTP-Posting-Date: Fri, 05 Jan 2007 08:04:08 MST
Date: Fri, 5 Jan 2007 10:04:05 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8553
```

"Joe" <nuisancewildlife@earthlink.net> wrote in message
news:1167965190.769472.91110@11g2000cwr.googlegroups.com...

>
> you asked: Analog TV, actually, I would like to use my own TV, like
> maybe cable channel 59 (I know we have some video bandwidth around

> to plug into the monitor. Definitely color TV and I thought that ,
> given the range requirement of about a mile, I would need to use the
> amateur band. If not, that's fine too. Length of transmissions, now I

You can get a mile unobstructed with WiFi, and it does tend to be a little less expensive than ATV. However, to get that sort of range does rely on using a channel within the amateur spectrum, and more significantly, requires a lot of antenna gain, unless you move to a lot of power which again gets expensive. Depending on your vehicle, that sort of antenna gain might not be practical. Relatively small WiFi antennas can be astonishingly directional.

You might also consider 900 MHz. This allows more reasonable antennas than 440 and equipment is still somewhat inexpensive, although not as widely available as WiFi. It is a little easier to get the mile on 900 MHz than 2.4 GHz. (been there, ran the tests). On 440 you are likely to encounter QRM (I'm assuming from the 1 call you are in the upper right there where there's a bunch of people) and antennas are going to be larger, something of a problem for your vehicle. ATV receivers for 900 MHz are fairly inexpensive.

I assume you are going to rely on the vehicle for camera positioning, or you are going to build it yourself. If you want to buy pan/tilt/zoom capability, then digital gets dramatically cheaper.

..

```
From 7301670950620755234
X-Google-Thread: fc2a5,5743317e828d1035
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!
news.banetele.no!uio.no!newsfeed1.funet.fi!newsfeeds.funet.fi!nntp.inet.fi!
central1.inet.fi!inet.fi!read3.inet.fi.POSTED!53ab2750!not-for-mail
From: "Jukka Pappinen" <japappin@hytti.uku.fi>
Newsgroups: rec.radio.amateur.homebrew
References: <VD9nh.19224$AX.15603@reader1.news.saunalahti.fi>
Subject: Re: Making vari-caps for ATU
Lines: 15
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="UTF-8";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Antivirus: avast! (VPS 0701-0, 03.01.2007), Outbound message
X-Antivirus-Status: Clean
Message-ID: <1cunh.200$sE.25@read3.inet.fi>
Date: Fri, 05 Jan 2007 15:32:13 GMT
NNTP-Posting-Host: 84.249.178.110
X-Complaints-To: abuse@inet.fi
X-Trace: read3.inet.fi 1168011133 84.249.178.110 (Fri, 05 Jan 2007 17:32:13 EET)
NNTP-Posting-Date: Fri, 05 Jan 2007 17:32:13 EET
Organization: Sonera corp Internet services
Xref: g2news2.google.com rec.radio.amateur.homebrew:8554
```

"Ceriel Nosforit" <ceriel@googlemail.com> wrote

> So r.r.a.h, if you are still reading, what has this humble newbie already
> screwed up? I know the sensitivity is going to be extremely high, but I
> should be able to fix that with some simple mechanics. My old LEGO bricks
> should do the trick, come to think of it...

I'm doing a random wire "semi-automatic" tuner, and also trying to make varicaps for it. I found a eBay seller from Germany, if I remember right, who sells ready-made air-varicap plates. I bought few dosens of them for 20 euros. I think the seller ships worldwide. I'm sure there is other producers too...

73 de Jukka, oh6mwq

From 1562354698733000480
X-Google-Thread: fc2a5,d2e0b6dcca7d384f,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!newsfeeds.ihug.co.nz!ihug.co.nz!ken-transit.news.telstra.net!lon-in.news.telstra.net!news.telstra.net!news-server.bigpond.net.au!53ab2750!not-for-mail
From: "HH" <harryharms@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re:Schedule 40 PVC
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <fVynh.1978$A8.1052@news-server.bigpond.net.au>
Date: Fri, 05 Jan 2007 20:53:31 GMT
NNTP-Posting-Host: 203.51.86.105
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1168030411 203.51.86.105 (Sat, 06 Jan 2007 07:53:31 EST)
NNTP-Posting-Date: Sat, 06 Jan 2007 07:53:31 EST
Organization: BigPond Internet Services
Xref: g2news2.google.com rec.radio.amateur.homebrew:8555

I would like to know what the actual OD is of schedule 40 PVC tubing.
I am building a NVIS dipole for 3.6 & 7.2 Mhz
I know what the wall thickness is and the nominal size, but say for instance
the OD of 1 1/2" schedule 40, is it really the OD they are measuring?

Here in Australia we have a quaint method of measuring structural steel pipe
where the OD is nothing like the size its listed at.

For example 3/4" pipe is actually 1 1/16 OD!! Give or take the wall
thickness, but its still known as 3/4" pipe!

Thanks
John
VK2KCE

From 7771017244525257451
X-Google-Thread: fc2a5,d2e0b6dcca7d384f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit

```
Path: g2news2.google.com!postnews.google.com!51g2000cwl.googlegroups.com!not-for-
mail
From: sailtamarack@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Re:Schedule 40 PVC
Date: 5 Jan 2007 13:36:45 -0800
Organization: http://groups.google.com
Lines: 20
Message-ID: <1168033004.985799.300470@51g2000cwl.googlegroups.com>
References: <fVynh.1978$A8.1052@news-server.bigpond.net.au>
NNTP-Posting-Host: 70.66.135.162
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1168033011 20260 127.0.0.1 (5 Jan 2007 21:36:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 5 Jan 2007 21:36:51 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 51g2000cwl.googlegroups.com; posting-host=70.66.135.162;
   posting-account=gXcV3gwAAACKhdV_aZ9TbpV32cSAnBGe
Xref: g2news2.google.com rec.radio.amateur.homebrew:8556
```

HH wrote:
> I would like to know what the actual OD is of schedule 40 PVC tubing.
> I am building a NVIS dipole for 3.6 & 7.2 Mhz
> I know what the wall thickness is and the nominal size, but say for instance
> the OD of 1 1/2" schedule 40, is it really the OD they are measuring?
>
> Here in Australia we have a quaint method of measuring structural steel pipe
> where the OD is nothing like the size its listed at.
>
> For example 3/4" pipe is actually 1 1/16 OD!! Give or take the wall
> thickness, but its still known as 3/4" pipe!
>
>
> Thanks
> John
> VK2KCE

Google is your friend: http://www.gizmology.net/pipe.htm

```
From -4315817975686739881
X-Google-Thread: fc2a5,5743317e828d1035
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!news.germany.com!feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!
```

```
53ab2750!not-for-mail
From: "Ceriel Nosforit" <ceriel@googlemail.com>
Subject: Re: Making vari-caps for ATU
Newsgroups: rec.radio.amateur.homebrew
References: <VD9nh.19224$AX.15603@reader1.news.saunalahti.fi>
     <1cunh.200$sE.25@read3.inet.fi>
Organization: Guerilla Computing
X-Face: 'BO/KG^w;,{wBozPy|^Wq~_NPJhKO0E/c9/wmO~};`Yg\g2;g4AAGqlwa^~Je7u6H$%*WEyP"}
{55=7!YAM/`0D~8)Y{+#?+ak;Gv__9WsE4QzeLAu0)n9e2Yd]02LZ-Vv&(&`=%
User-Agent: pan 0.115 (Mrs. Kerr Says Remember the Tip Jar)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 34
Message-ID: <5Sznh.20298$xq7.1354@reader1.news.saunalahti.fi>
Date: Fri, 05 Jan 2007 21:58:25 GMT
NNTP-Posting-Host: 80.186.169.2
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1168034305 80.186.169.2 (Fri, 05 Jan 2007
23:58:25 EET)
NNTP-Posting-Date: Fri, 05 Jan 2007 23:58:25 EET
Xref: g2news2.google.com rec.radio.amateur.homebrew:8557
```

Alas, on the wretched hour of Fri, 05 Jan 2007 15:32:13 +0000 Jukka Pappinen thusly proclaimed:

> "Ceriel Nosforit" <ceriel@googlemail.com> wrote
>
>> So r.r.a.h, if you are still reading, what has this humble newbie already screwed up? I know the sensitivity is going to be extremely high, but I should be able to fix that with some simple mechanics. My old LEGO bricks should do the trick, come to think of it...
>
> I'm doing a random wire "semi-automatic" tuner, and also trying to make varicaps for it. I found a eBay seller from Germany, if I remember right, who sells ready-made air-varicap plates. I bought few dosens of them for 20 euros. I think the seller ships worldwide. I'm sure there is other producers too...
>
> 73 de Jukka, oh6mwq

That's a rather good deal. I paid 25€ for material costs and an additional 5€ to my neighbour who got them for me. My brother who teaches handicrafts at a school is going to let me use the workshop to do the rest of the work, so right now I'm looking at a cost of 33€ for materials, but I still haven't bought the plexiglass.

How is your tuner going to be semi-automatic, if I may ask?

p.s I can see you're a fellow Finn aswell, so here is a rather useful link I found earlier today:
http://www.tkk.fi/Misc/Electronics/faq/sfnet.harrastus.elektroniikka/

liikkeita.html
I'm sure Vekoy is a familiar place for you already, but still... ;)

--
Nos

From -5867188203429731655
X-Google-Thread: fc2a5,5743317e828d1035
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news2.google.com!news.germany.com!
newsfeed1.funet.fi!newsfeed3.funet.fi!newsfeeds.funet.fi!
feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: "Ceriel Nosforit" <ceriel@googlemail.com>
Subject: Re: Making vari-caps for ATU
Newsgroups: rec.radio.amateur.homebrew
References: <VD9nh.19224$AX.15603@reader1.news.saunalahti.fi>
     <1167933389.928144.71860@v33g2000cwv.googlegroups.com>
     <_Tcnh.19402$rg4.10351@reader1.news.saunalahti.fi>
     <1167952799.455969.323300@51g2000cwl.googlegroups.com>
Organization: Guerilla Computing
X-Face: 'BO/KG^w;,{wBozPy|^Wq~_NPJhKO0E/c9/wmO~};`Yg\g2;g4AAGqlwa^~Je7u6H$%*WEyP"}
{55=7!YAM/`0D~8)Y{+#?+ak;Gv__9WsE4QzeLAu0)n9e2Yd]02LZ-Vv&(&`=%
User-Agent: pan 0.115 (Mrs. Kerr Says Remember the Tip Jar)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 20
Message-ID: <OVznh.20302$xq7.15042@reader1.news.saunalahti.fi>
Date: Fri, 05 Jan 2007 22:02:22 GMT
NNTP-Posting-Host: 80.186.169.2
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1168034542 80.186.169.2 (Sat, 06 Jan 2007
00:02:22 EET)
NNTP-Posting-Date: Sat, 06 Jan 2007 00:02:22 EET
Xref: g2news2.google.com rec.radio.amateur.homebrew:8558

Alas, on the wretched hour of Thu, 04 Jan 2007 15:19:59 -0800 jgboyles
thusly proclaimed:

> Ten Tec in USA offers a variable capacitor kit, max C is 500pf @ ~5kv.
> Cost is about $80 USD. Takes about a hour to assemble. I use them in
> a 1.5kw ATU and they work fine. Kit #1207.
>
> If you get all the parts, cut them up, and assemble the whole thing,
> homebrew, makes the $80 price tag seem reasonable. I could see you
> spending more than half on just materials.
>
> Good Luck,
> Gary N4AST

Those are not all that awful prices for the rest of their kits... The BFO

circuit looks especially tempting. I'll be sure to check it again when I
decide I'm going to build an actual radio. Thanks for the link!

--
Nos

```
From -4206127091613221202
X-Google-Thread: fc2a5,5743317e828d1035
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 05 Jan 2007 16:52:17 -0600
Date: Fri, 05 Jan 2007 23:52:01 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla Thunderbird 1.0.2 (X11/20050322)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Making vari-caps for ATU
References: <VD9nh.19224$AX.15603@reader1.news.saunalahti.fi>
     <1cunh.200$sE.25@read3.inet.fi>
<5Sznh.20298$xq7.1354@reader1.news.saunalahti.fi>
In-Reply-To: <5Sznh.20298$xq7.1354@reader1.news.saunalahti.fi>
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Rfmdndl2MbU8SwPYnZ2dnUVZ8qaqnZ2d@pipex.net>
Lines: 11
NNTP-Posting-Host: 71.107.26.158
X-Trace: sv3-YHpAv5JBkEPEYSuvSDfGzdW0ZRGQSwKuy2YS3FcBRLN9Jme/
2xz1uaIMAtpkgAl2+IvUM2U88LpY53w!
5Z+EIG9F1oWrYX8oUScQ3sI0j39w4nEEqZ04JotnBVCJ5awo7by3wbsSGCdJ1VTL1iw0FutIcNOV!
TaCYY1vTALP/CqsjHZHCQJRd7A==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8559
```

> How is your tuner going to be semi-automatic, if I may ask?

=========================
Suggest you consider a stepper motor from a dumped
printer/scanner/floppy drive or HD ,if necessary including a shaft
rotational reducer when steps are too big.
Google will provide you with suitable (simple) circuits to drive the
motor ,usually involving one or more opamps.
From semi-automatic the circuit can evolve towards a fully automatic
system with a SWR sensing circuit.

Frank   KN6WH/GM0CSZ

From -1850883320105653213
X-Google-Thread: fc2a5,d2e0b6dcca7d384f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news02.roc.ny.POSTED!fd24bd7a!
not-for-mail
Message-ID: <459ED6BB.1090004@frontiernet.net>
From: gwatts <gwatts@frontiernet.net>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Schedule 40 PVC
References: <fVynh.1978$A8.1052@news-server.bigpond.net.au>
In-Reply-To: <fVynh.1978$A8.1052@news-server.bigpond.net.au>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 22
X-Complaints-To: abuse-news@frontiernet.net
X-Trace:
52616e646f6d49562b9a4c60c190d420d4353e19db09195da5cca4e1997951edfc6e4757438c282934
233d72fde4effe87d0464f4ace5e591b5268fb4b23bddd851429c1253c83e256a9c24616480434ff90
0800389a8b3320326dae60983d804452f9e98564a1f1559f67106c32766f3781767d6539f7b43e4942
6c954b2f0e
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Fri, 05 Jan 2007 22:52:44 UTC
Date: Fri, 05 Jan 2007 22:52:44 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8560

HH wrote:
> I would like to know what the actual OD is of schedule 40 PVC tubing.

http://www.gizmology.net/pipe.htm

...scroll down a little less than half way. It turns out it's the same
OD as steel pipe of the same size.

> I am building a NVIS dipole for 3.6 & 7.2 Mhz
> I know what the wall thickness is and the nominal size, but say for instance
> the OD of 1 1/2" schedule 40, is it really the OD they are measuring?
>
> Here in Australia we have a quaint method of measuring structural steel pipe
> where the OD is nothing like the size its listed at.
>
> For example 3/4" pipe is actually 1 1/16 OD!! Give or take the wall
> thickness, but its still known as 3/4" pipe!

There's a short but interesting story behind that on the link above.

73,
Galen, W8LNA

```
From -3361158292975393435
X-Google-Thread: fc2a5,fd53641fbb970225
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!postnews.google.com!
42g2000cwt.googlegroups.com!not-for-mail
From: "Joe" <nuisancewildlife@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wireless video transmission
Date: 5 Jan 2007 16:57:42 -0800
Organization: http://groups.google.com
Lines: 26
Message-ID: <1168045062.754927.30010@42g2000cwt.googlegroups.com>
References: <1167937073.490408.90480@51g2000cwl.googlegroups.com>
   <1167960830.905828.31730@i15g2000cwa.googlegroups.com>
   <1167965190.769472.91110@11g2000cwr.googlegroups.com>
   <1167969898.502554.227530@38g2000cwa.googlegroups.com>
NNTP-Posting-Host: 71.174.178.106
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1168045069 15880 127.0.0.1 (6 Jan 2007 00:57:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 6 Jan 2007 00:57:49 +0000 (UTC)
In-Reply-To: <1167969898.502554.227530@38g2000cwa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 42g2000cwt.googlegroups.com; posting-host=71.174.178.106;
   posting-account=fRO72A0AAAAx72wd1k0VmvsrUHv_TX3P
Xref: g2news2.google.com rec.radio.amateur.homebrew:8561
```

sailtamarack@yahoo.ca wrote:

> Joe,
>
> Given that you plan to transmit analog television transmission you will
> want to operate on the ham bands. The unlicensed stuff will not have
> the 1 mile range given the bandwidth and SNR requirements.
>
> I suggest you get a recent copy of the ARRL Handbook. Chapter 9 has a
> section on Amateur Television (ATV) and Radio Control. There is an
> example of ATV mounted on a model Humvee.
>
> There is a lot of good info on the ARRL site at
> http://www.arrl.org/tis/info/atv.html
>
> Google is your friend - a search on "amateur television" gave lots of

> sites with interesting equipment that can be purchased or built. There
> are groups and forums where you will get lots of practical tips.
>
> Roger

Thank you Roger. My copy is about two years old. I will look thru it
and see if it contains any more information.

Joe

```
From 4084968116125057519
X-Google-Thread: fc2a5,fd53641fbb970225
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s80g2000cwa.googlegroups.com!not-for-
mail
From: "Joe" <nuisancewildlife@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wireless video transmission
Date: 5 Jan 2007 17:01:06 -0800
Organization: http://groups.google.com
Lines: 40
Message-ID: <1168045266.268225.272860@s80g2000cwa.googlegroups.com>
References: <1167937073.490408.90480@51g2000cwl.googlegroups.com>
   <1167960830.905828.31730@i15g2000cwa.googlegroups.com>
   <1167965190.769472.91110@11g2000cwr.googlegroups.com>
   <INtnh.48$Bz5.28@newsfe05.lga>
NNTP-Posting-Host: 71.174.178.106
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1168045273 16616 127.0.0.1 (6 Jan 2007 01:01:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 6 Jan 2007 01:01:13 +0000 (UTC)
In-Reply-To: <INtnh.48$Bz5.28@newsfe05.lga>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s80g2000cwa.googlegroups.com; posting-host=71.174.178.106;
   posting-account=fRO72A0AAAAx72wd1k0VmvsrUHv_TX3P
Xref: g2news2.google.com rec.radio.amateur.homebrew:8562
```

xpyttl wrote:
> "Joe" <nuisancewildlife@earthlink.net> wrote in message
> news:1167965190.769472.91110@11g2000cwr.googlegroups.com...
> >
> > you asked: Analog TV, actually, I would like to use my own TV, like
> > maybe cable channel 59 (I know we have some video bandwidth around
>
> > to plug into the monitor. Definitely color TV and I thought that ,

> > given the range requirement of about a mile, I would need to use the
> > amateur band. If not, that's fine too. Length of transmissions, now I
>
> You can get a mile unobstructed with WiFi, and it does tend to be a little
> less expensive than ATV. However, to get that sort of range does rely on
> using a channel within the amateur spectrum, and more significantly,
> requires a lot of antenna gain, unless you move to a lot of power which
> again gets expensive. Depending on your vehicle, that sort of antenna gain
> might not be practical. Relatively small WiFi antennas can be astonishingly
> directional.
>
> You might also consider 900 MHz. This allows more reasonable antennas than
> 440 and equipment is still somewhat inexpensive, although not as widely
> available as WiFi. It is a little easier to get the mile on 900 MHz than
> 2.4 GHz. (been there, ran the tests). On 440 you are likely to encounter
> QRM (I'm assuming from the 1 call you are in the upper right there where
> there's a bunch of people) and antennas are going to be larger, something of
> a problem for your vehicle. ATV receivers for 900 MHz are fairly
> inexpensive.
>
> I assume you are going to rely on the vehicle for camera positioning, or you
> are going to build it yourself. If you want to buy pan/tilt/zoom
> capability, then digital gets dramatically cheaper.
>
> ..

Thank you for the info. I will look into 900MHz and WiFi. I was only
planning on panning, no tilt, and no zoom.

Joe

```
From -1691227206875975872
X-Google-Thread: fc2a5,1454424222061fe6
X-Google-Thread: fc8b1,1454424222061fe6
X-Google-Thread: 112d1e,1454424222061fe6
X-Google-Attributes: gidfc2a5,gidfc8b1,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!cycny01.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc01.POSTED!dd653b87!not-for-mail
From: Rich Grise <rich@example.net>
Subject: Re: Squegging in LC oscillators
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table)
Message-Id: <pan.2007.01.06.02.48.35.519336@example.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,sci.electronics.design
References: <1167753329.259479.53680@k21g2000cwa.googlegroups.com>
<qVHmh.42067$wc5.14987@newssvr25.news.prodigy.net>
<1167928774.373956.293350@6g2000cwy.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
```

```
Lines: 26
Date: Sat, 06 Jan 2007 02:48:24 GMT
NNTP-Posting-Host: 71.103.152.39
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc01 1168051704 71.103.152.39 (Fri, 05 Jan 2007 21:48:24 EST)
NNTP-Posting-Date: Fri, 05 Jan 2007 21:48:24 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8563
rec.radio.amateur.boatanchors:7018 sci.electronics.design:138912

On Thu, 04 Jan 2007 08:39:34 -0800, Tim Shoppa wrote:
> N9WOS wrote:
>> You also want to take a careful look at the screen circuit. It can also
>> act like an output in a parasitic oscillation. So, try putting a 100, or
>> 1K resistor in series with it too.
>
> Indeed this is a working fix, as I verified on the bench.
>
>> It's oscillating cycle.
>> It starts it's HF oscillation gain cycle.
>
> Actually in my particular case it appears that the UHF parasitic starts
> first. But probably just the luck of the bias point.

Check for dynatron oscillations; the screen acts as a plate, sort of.
http://en.wikipedia.org/wiki/Dynatron_oscillator

I can't find a schematic of one, but it's just an oscillator with feedback
from the screen to the grid.

How long are the leads of your screen bypass cap, and where are they
soldered down?

Thanks,
Rich




From 5917989889611940652
X-Google-Thread: fc2a5,d2e0b6dcca7d384f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews6.bellsouth.net.POSTED!d50ae390!not-for-mail
Message-ID: <459F29ED.4E240AE@pvcdude.com>
From: PVC Dude <pvc_dude@pvcdude.com>
X-Mailer: Mozilla 4.79 [en] (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Schedule 40 PVC
References: <fVynh.1978$A8.1052@news-server.bigpond.net.au>
```

```
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 1
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcboloaccmhgfdjemoelkeillbjhjaahgaipoh
omnpcofpdlmeklcminedjmjemeieanolehbjnpjajpnjhhndmfpfpejhoemckgkdmdabjnjcbagblf
NNTP-Posting-Date: Fri, 05 Jan 2007 23:47:40 EST
Organization: BellSouth Internet Group
Date: Fri, 05 Jan 2007 23:47:41 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8564
```

http://www.charlottepipe.com/Default.aspx?Page=AllProducts

```
From 3172396585508762811
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.neonova.net!
news.neonova.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 05 Jan 2007 23:09:43 -0600
Date: Fri, 05 Jan 2007 21:09:31 -0800
From: Jim Barber <jim@sonicfocus.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS kit
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
<x0Rnj9Q$H$kFFArr@ifwtech.co.uk> <gkUkh.12641$641.9012@bignews4.bellsouth.net>
In-Reply-To: <gkUkh.12641$641.9012@bignews4.bellsouth.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <feKdnfoy6rKKsgLYnZ2dnUVZ_r2onZ2d@neonova.net>
Lines: 39
NNTP-Posting-Host: 12.144.251.150
X-Trace: sv3-
TNa5e8HuhGPRn4ZXCcpbyXrLpeZQs0NYH03UE3zuRQFo3LtaYQmoGS3lVlqXHnfgWgN2ZqwXIzYnxsJ!
3o7mB+LakSP9HAch3KvBeDtmlCSCjgoumVaZgTnnGStUtzlg1Q3QmfMf9yctq7LvE5/yPu5tZ6nv!
2zRWquPhjz8r6Q==
X-Complaints-To: abuse@neonova.net
X-DMCA-Complaints-To: abuse@neonova.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8565
```

I've been working on a high-power HF autotuner design that I'd just about shelved because of the necessity of soldering the DDS chip. (it uses an internal RF source to power the phase detector)

This thread has helped a lot. When time permits I may order up some parts and give it a try. I have a good-quality magnifier lamp and a fine-point temp-controlled pencil, what I don't have is OEM eye lenses and flexible finger joints... ;-)

Jim, N7CXI

ken scharf wrote:
> Ian White GM3SEK wrote:
>> ken scharf wrote:
>>
>>> Now to solder those chip caps and resistors! (They should be easier, the AD9851 was the worst part to place with the tight spacing, all the other parts have lead spacing at least twice as wide).
>>>
>> It's MUCH easier to begin with the easy parts! Start with the largest chip caps and resistors, continue with the rest of the simple passives, and then the largest ICs (largest pin spacing).
>>
>> Finally, when you've honed your SMD skills, solder the large ICs with the small pin spacings.
>>
>> And give up the industrial-strength coffee for the duration :-)
>>
>>
> For some reason the instructions that came with the DDS-60 kit have you solder all the ic's on first, then the resistors and caps.
>
> After thinking I had done a good job on the AD9851 I put the board under my binocular microscope for a close in look. I saw what looked like microscopic solder bridges between the chip leads. I was able to remove these with a stiff piece of paper slid between the chip leads. I still see strange 'hair like' structures all over the board under the microscope. I may be seeing dust, bits of flux, who knows! The microscopic world is strange, especially in 3D.

From -7936982581417077005
X-Google-Thread: fc2a5,b0b7c956a377fc68
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WTD:MSR-2000 VHF XMTR
Date: Thu, 28 Dec 2006 09:04:57 -0800
Message-ID: <u4u7p2t1v61dc5qfqvmtqvqclj25gtvrl9@4ax.com>
References: <Dm%jh.32705$923.28123@newsfe17.lga>
<4111p2lqflevm8hbttth4ia9m2v3lvnlt3@4ax.com>
<IJ6dncSBZrFFsgzYnZ2dnUVZ_oernZ2d@bright.net>
<bvn2p2tq1jasopip7bj7gggocd8omtl9ks@4ax.com> <L5CdndZjQ_6ECQ_YRVnyhQA@pipex.net>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node84-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1167312634 66.52.61.84 (28 Dec 2006 08:30:34 -0500)
Lines: 23
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.84
Path: g2news2.google.com!news4.google.com!news.glorb.com!news-out.readnews.com!news-xxxfer.readnews.com!in.100proofnews.com!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8466

ORIGINAL MESSAGE:

On Wed, 27 Dec 2006 15:41:13 +0000, charlie <wehatespam@wymsey.co.uk>
wrote:

>Oh come on, whatever your security problems, whatever your need to
>be a pedant, get it sorted and find some real issues to deal with.
>
>If I was looking for something a bit unusual then a group of
>homebrewers is one the first places I would try. Your definition of
>this group is far too narrow, surely it also includes fault
>finding, problems and repairing. The common link is that these are
>things we do ourselves rather ran to the nearest shop.

------------ REPLY FOLLOWS ------------

Nonsense. Homebrewing is building things from scratch, period. Crossposters and off-topic posters like yourself are the bane of the newsgroups. If you want to purchase parts for repair, go to rec.radio.swap. It's why different newsgroups exist in the first place.

Bill, W6WRT

From 6602688393515538299
X-Google-Thread: fcc6e,2ae97e7b90a2c8dc
X-Google-Thread: 108122,2ae97e7b90a2c8dc
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: A moment of silence my friends for a silent key.
Date: Thu, 28 Dec 2006 09:20:45 -0800
Message-ID: <btu7p2p382261d68p90qh0uaqfu40pec8t@4ax.com>
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
<blbbo25epdssnp6sk1g1ss5sc3dmuc0007@4ax.com>
<SNednTkkkupkAA_YnZ2dnUVZ_rqhnZ2d@deskmedia.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0

```
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node84-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1167313581 66.52.61.84 (28 Dec 2006 08:46:21 -0500)
Lines: 22
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.84
Path: g2news2.google.com!news1.google.com!news4.google.com!news.glorb.com!
newsgate.cistron.nl!transit.news.xs4all.nl!xs4all!news2.euro.net!
213.132.189.2.MISMATCH!multikabel.net!feed20.multikabel.net!news-
out1.kabelfoon.nl!newsfeed.kabelfoon.nl!bandi.nntp.kabelfoon.nl!
newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.antenna:23604
rec.radio.amateur.equipment:7718 rec.radio.amateur.homebrew:8467
```

ORIGINAL MESSAGE:

On Wed, 27 Dec 2006 10:22:55 -0600, "JIM"
<jslaird@goldfieldaccess.net> wrote:

>I'll Bet there are a lot of old timer's just shaking in there Graves
>at the way you have been presenting the hobby that they helped to grow.

------------ REPLY FOLLOWS ------------

I'll bet there are even more newsgroup users who are tired of people posting messages that have nothing to do with the topic of the newsgroup.

I'll spell it out for you: The three newsgroups you have posted to have nothing to do with a "moment of silence". There is newsgroup which is a catch-all for amateur radio related items: rec.radio.amateur.misc.

Now that you know, I trust you will post correctly in the future.

Bill, W6WRT

```
From -5773688560638953879
X-Google-Thread: fc2a5,556a8211f505a11a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: QSL Cards
Date: Thu, 28 Dec 2006 09:25:09 -0800
Message-ID: <7fv7p29vkq43e0fg1098pgh43bhsgufeak@4ax.com>
References: <1167160503.530317.204030@f1g2000cwa.googlegroups.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
```

```
NNTP-Posting-Host: node84-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1167313845 66.52.61.84 (28 Dec 2006 08:50:45 -0500)
Lines: 9
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.84
Path: g2news2.google.com!news4.google.com!news.glorb.com!redpower.x-privat.org!
usenet.ath.cx!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8468
```

Please folks, do not reply to these posts which have nothing to do with the purpose of this newsgroup.

If these clueless bozos never get any replies, they will eventually learn to post to the correct newsgroup.

Thanks,

Bill, W6WRT

```
From 5463529956359949211
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews4.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS kit
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
<x0Rnj9Q$H$kFFArr@ifwtech.co.uk>
In-Reply-To: <x0Rnj9Q$H$kFFArr@ifwtech.co.uk>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 28
Message-ID: <gkUkh.12641$641.9012@bignews4.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
npbhgpngjbkmjfegdbdpiflmbcekedmfhojhikkbagflhcboapjljcfokohhfmhpkgnmgkcidejbjjeljh
fmolpfloinkooakledjiohkcdlomigihbbjoldfngcmehnmielogdggkeacicpbdmpbigkhcfohpeg
NNTP-Posting-Date: Thu, 28 Dec 2006 13:48:44 EST
Organization: BellSouth Internet Service
Date: Thu, 28 Dec 2006 13:53:34 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8469
```

Ian White GM3SEK wrote:

> ken scharf wrote:
>

>>
>> Now to solder those chip caps and resistors! (They should be easier,
>> the AD9851 was the worst part to place with the tight spacing, all the
>> other parts have lead spacing at least twice as wide).
>>
> It's MUCH easier to begin with the easy parts! Start with the largest
> chip caps and resistors, continue with the rest of the simple passives,
> and then the largest ICs (largest pin spacing).
>
> Finally, when you've honed your SMD skills, solder the large ICs with
> the small pin spacings.
>
> And give up the industrial-strength coffee for the duration :-)
>
>

For some reason the instructions that came with the DDS-60 kit have you
solder all the ic's on first, then the resistors and caps.

After thinking I had done a good job on the AD9851 I put the board under
my binocular microscope for a close in look. I saw what looked like
microscopic solder bridges between the chip leads. I was able to remove
these with a stiff piece of paper slid between the chip leads. I still
see strange 'hair like' structures all over the board under the
microscope. I may be seeing dust, bits of flux, who knows! The
microscopic world is strange, especially in 3D.

```
From -3861059336580268760
X-Google-Thread: 10c2ee,bb046759021f47a
X-Google-Thread: fc8b1,bb046759021f47a
X-Google-Thread: fc2a5,bb046759021f47a
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h40g2000cwb.googlegroups.com!not-for-
mail
From: "Telstar Electronics" <briangriffey@sbcglobal.net>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: WTD: Flat mica capacitors
Date: 28 Dec 2006 11:07:13 -0800
Organization: http://groups.google.com
Lines: 18
Message-ID: <1167332833.468691.211930@h40g2000cwb.googlegroups.com>
References: <4nIih.25832$Rj.18210@newsfe19.lga>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167332838 19926 127.0.0.1 (28 Dec 2006 19:07:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 28 Dec 2006 19:07:18 +0000 (UTC)
In-Reply-To: <4nIih.25832$Rj.18210@newsfe19.lga>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h40g2000cwb.googlegroups.com; posting-host=216.203.30.4;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news2.google.com rec.antiques.radio+phono:42100
rec.radio.amateur.boatanchors:6890 rec.radio.amateur.homebrew:8470

KC0EH wrote:
> I am in need of some capacitors (600 vdc) for a homebrew 20's vintage
> project and am looking for period correct parts. If you have some to sell or
> know of a source , please let me know the price.
>
> (2) .002
> (2) .005
> (1) .00025
>
> Thanks ,
>
> Charlie

You might want to consider these...
http://www.rfparts.com/caps_dippedmica.html#cd19

www.telstar-electronics.com




From 3652749666290944403
X-Google-Thread: fc2a5,556a8211f505a11a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 28 Dec 2006 13:26:12 -0600
Date: Thu, 28 Dec 2006 19:26:11 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: QSL Cards
References: <1167160503.530317.204030@f1g2000cwa.googlegroups.com>
<7fv7p29vkq43e0fg1098pgh43bhsgufeak@4ax.com>
In-Reply-To: <7fv7p29vkq43e0fg1098pgh43bhsgufeak@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <mIqdnfwNOZfJhwnYnZ2dnUVZ_qGjnZ2d@bright.net>
Lines: 34
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
BblbsrKxKu5A1x1m0AtQGhuWM58gEemyzxmjH0yaUgXR4y1LgLpGSzQrjXIqwFGOMo+Q75V/bS2YpAj!
```

Nct+z4I81sw2B2iELlf6OmZZc7MeRDdPCi+Qs8whZfUEG731MpcuXUhWc+BtNqoesJuaDZ4WqNjy!/
bKDphGhmA==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8471

Another dang canned message...it's getting kind of boring reading the same thing over and over and over...try a new message please.

The Message Template is the enemy of actually saying something important. It is far too easy to bring up the pre-typed message and offer a generic response to everything that gets one's dander up.

Now to add something to make this post "legitimate"...

I'm building (from scratch) a remote frequency readout so other hams will be able to determine which frequency I'm on while mobile, should they actually like to talk. I plan to use only one 7447 for BCD to 7 segment conversion and each digit LED will be wired in parallel and multiplexed. I went this way to save money, but it will have one slightly annoying feature...no lead zero blanking. So...can anyone tell me the proper way to hook up the blanking inputs and outputs on a 7447 (I would use one for each digit to get this lead zero blanking). The data sheet I have isn't real clear about the BI/RBO and the RBI pin. I suspect something like the RBO pin of a lesser significant bit would be connected to the next higher digits RBI pin or something like that?

Scott
N0EDV

Bill Turner wrote:
> Please folks, do not reply to these posts which have nothing to do
> with the purpose of this newsgroup.
>
> If these clueless bozos never get any replies, they will eventually
> learn to post to the correct newsgroup.
>
> Thanks,
>
> Bill, W6WRT

From -1144804184479145115
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail

NNTP-Posting-Date: Thu, 28 Dec 2006 13:29:54 -0600
Date: Thu, 28 Dec 2006 19:29:53 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: A moment of silence my friends for a silent key.
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
<blbbo25epdssnp6sk1g1ss5sc3dmuc0007@4ax.com>
<SNednTkkkupkAA_YnZ2dnUVZ_rqhnZ2d@deskmedia.com>
<btu7p2p382261d68p90qh0uaqfu40pec8t@4ax.com>
In-Reply-To: <btu7p2p382261d68p90qh0uaqfu40pec8t@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <mIqdnf8NOZevhgnYnZ2dnUVZ_qHinZ2d@bright.net>
Lines: 34
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-bHPloNvSKIQE2jr3tNiVUScsRMV9GyZEzGup/mRsUP/
wwlN1bwwmC7+0eRVyW1jf+zrQFM4tnpNfras!
bX1hhSYucDy1hMJdnX1eiJ+cn7TCa8XntGd6gOqM2j9J+DVotvZHJXfABfIPH7hKSW3j5qC+0ZtP!
+s50hASuUg==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8472

Huh? I missed the part of the reply that had something to do about homebrewing. Was it in the fine print somewhere? Everybody loves an internet cop. Now that you know, I trust you will post correctly in the future.

Scott
N0EDV

Bill Turner wrote:

> ORIGINAL MESSAGE:
>
> On Wed, 27 Dec 2006 10:22:55 -0600, "JIM"
> <jslaird@goldfieldaccess.net> wrote:
>
>
>>I'll Bet there are a lot of old timer's just shaking in there Graves
>>at the way you have been presenting the hobby that they helped to grow.
>
>
> ------------ REPLY FOLLOWS ------------
>

> I'll bet there are even more newsgroup users who are tired of people
> posting messages that have nothing to do with the topic of the
> newsgroup.
>
> I'll spell it out for you: The three newsgroups you have posted to
> have nothing to do with a "moment of silence". There is newsgroup
> which is a catch-all for amateur radio related items:
> rec.radio.amateur.misc.
>
> Now that you know, I trust you will post correctly in the future.
>
> Bill, W6WRT

```
From -3528627692746703980
X-Google-Thread: fc2a5,bb046759021f47a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 28 Dec 2006 13:34:24 -0600
Date: Thu, 28 Dec 2006 19:34:23 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WTD: Flat mica capacitors
References: <4nIih.25832$Rj.18210@newsfe19.lga>
<1167332833.468691.211930@h40g2000cwb.googlegroups.com>
In-Reply-To: <1167332833.468691.211930@h40g2000cwb.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <dJudnVqoR4HcgQnYnZ2dnUVZ_vmqnZ2d@bright.net>
Lines: 34
NNTP-Posting-Host: 64.33.199.218
X-Trace:
sv3-2Qec8OpviUYNt0c8Jkg91zd+r65Rhpm7klN+UY43VwGwil5alOppwGjGcG9ba5Ct5kf4KtwgaOCmBM
K!lpdB+PxaOg42FqcuLeseFdTq/QP5IH+u6/GUEVTo8j/N0EAFddn1heC8HyfGZ94WrSp4jLozhsUl!
pAn6HXrdVA==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8473
```

Oh God, be careful...you're looking to BUY something on a homebrewing
newsgroup. Make sure you have zee papers when W6WRT comes jumping all
over you...

Now that I've got that out of the way...are you looking for the brown
square types with the color coded dots on top that look like one sided
dice? I have some of those things, but I'd have to dig them out and
check the values.

Scott
N0EDV

Telstar Electronics wrote:

> KC0EH wrote:
>
>>I am in need of some capacitors (600 vdc) for a homebrew 20's vintage
>>project and am looking for period correct parts. If you have some to sell or
>>know of a source , please let me know the price.
>>
>>(2) .002
>>(2) .005
>>(1) .00025
>>
>>Thanks ,
>>
>>Charlie
>
>
> You might want to consider these...
> http://www.rfparts.com/caps_dippedmica.html#cd19
>
> www.telstar-electronics.com
>

From 8935502426650754201
X-Google-Thread: 10c2ee,bb046759021f47a
X-Google-Thread: fc8b1,bb046759021f47a
X-Google-Thread: fc2a5,bb046759021f47a
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
newsfeed2.dallas1.level3.net!news.level3.com!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: WTD: Flat mica capacitors
Date: 28 Dec 2006 14:42:55 -0500
Organization: Former users of Netcom shell (1989-2000)
Lines: 25
Message-ID: <en16nv$kos$1@panix2.panix.com>
References: <4nIih.25832$Rj.18210@newsfe19.lga>
<1167332833.468691.211930@h40g2000cwb.googlegroups.com>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1167334975 21352 166.84.1.2 (28 Dec 2006 19:42:55 GMT)

```
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 28 Dec 2006 19:42:55 +0000 (UTC)
Xref: g2news2.google.com rec.antiques.radio+phono:42103
rec.radio.amateur.boatanchors:6891 rec.radio.amateur.homebrew:8474

In article <1167332833.468691.211930@h40g2000cwb.googlegroups.com>,
Telstar Electronics <briangriffey@sbcglobal.net> wrote:
>KC0EH wrote:
>> I am in need of some capacitors (600 vdc) for a homebrew 20's vintage
>> project and am looking for period correct parts. If you have some to sell or
>> know of a source , please let me know the price.
>>
>> (2) .002
>> (2) .005
>> (1) .00025
>
>You might want to consider these...
>http://www.rfparts.com/caps_dippedmica.html#cd19

Old issues of Hints and Kinks and also the Radio Cyclopedia have directions
on making your own mica caps, as well as paper/foil capacitors.  If you
are going to homebrew it, why not do it all the way?  It would be appropriate
for the time period.

With a modern DVM, doing cut-and-try work to get the values right will be
much easier than it was eighty years ago, too.
--scott

--
"C'est un Nagra.  C'est suisse, et tres, tres precis."


From -7624660276149698015
X-Google-Thread: fc2a5,556a8211f505a11a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news-lei1.dfn.de!
news1.uni-leipzig.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: QSL Cards
Date: 28 Dec 2006 20:48:02 GMT
Lines: 10
Message-ID: <slrnep8bc2.2m8g.bit-bucket@shell.config.com>
References: <1167160503.530317.204030@f1g2000cwa.googlegroups.com>
<7fv7p29vkq43e0fg1098pgh43bhsgufeak@4ax.com>
<mIqdnfwNOZfJhwnYnZ2dnUVZ_qGjnZ2d@bright.net>
X-Trace: individual.net y+MMVzOtUqMYNcTPllv1gwKVnZLBRT637q19+rDeFZAQ6HKxsj
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8475

On Thu, 28 Dec 2006 19:26:11 +0000, Scott wrote:
```

> Another dang canned message...it's getting kind of boring reading the
> same thing over and over and over...try a new message please.

Just plonk him. I have. He's now in my killfile just behind the script
that kills googlegroups postings -- which is where most of the OT posts
he uselessly replies to (e.g., the OP here) come from.

But, now, as additional phules start making useless replies to _his_
useless replies....

```
From -6531645435820914520
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.deskmedia.com!
news.deskmedia.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 28 Dec 2006 15:33:18 -0600
Reply-To: "JIM" <cjjimmie@yahoo.com>
From: "JIM" <cjjimmie@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
<blbbo25epdssnp6sk1g1ss5sc3dmuc0007@4ax.com>
<SNednTkkkupkAA_YnZ2dnUVZ_rqhnZ2d@deskmedia.com>
<btu7p2p382261d68p90qh0uaqfu40pec8t@4ax.com>
<mIqdnf8NOZevhgnYnZ2dnUVZ_qHinZ2d@bright.net>
Subject: Re: A moment of silence my friends for a silent key.
Date: Thu, 28 Dec 2006 15:33:13 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <UeCdnYLIR_qDpQnYnZ2dnUVZ_rCsnZ2d@deskmedia.com>
Lines: 59
NNTP-Posting-Host: 63.168.115.135
X-Trace: sv3-
nXFeXLD2HFhD5nO7SqHJvufUPH3e7alhB+vyLwtghly2uUqDqxc4JiS55SmAES7q6tMJweGW+xhNwpU!
kl4GEWR7vVSdUWDICI1j+tyGudRQixcLwjjIjrTO+PKS0iwMEajWhAFjvknB9UtqI+6yawo7ByoZ!
4z1hjKor70HDPmuAl3U=
X-Complaints-To: abuse@deskmedia.com
X-DMCA-Complaints-To: abuse@deskmedia.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8476
```

bill:w6wrt You also replied to and off post. By First telling everyone to
stop replying.. And now to me on how to post.
You make a bad Internet cop by breaking the LAWS that you chose to protect.
Bill I set the coin back up on edge would you like to try a best two out of

three and see if you can knock it over onto TAILS again???????? You are
being the best example of the Know it all I was talking about. Your not
being helpful . Your being condescending. KINDNESS bill.. Be a big man,
not a small one.   Also as long as I'm on here....ah... how can I say this.
"Breaking all the rules". The Other person the self professed you know what
ever. If you give them another Ear to listen they keep on trying to prove
how right there wrong cause is. Just sit quietly by and let AID'S Take care
of them all. It's a great answer to there cause. Big MOUTH & A BIG you
know what......   = Aid's The perfect answer.   OH YES BILL...
I........LOVE.....ROCK& ROLL.... And BEAUTIFUL WOMEN, AND FAST CAR'S
TOO.....And even FASTER MOTORCYCLE'S. I ...... LOVE .....To......GO
OFFROADING......... And I love my Children and my Grand Baby's TOO.
Come on Copper Boy Give me another Ticket...... Like you are so PERFECT
MR>> BILL......... Answer me this Grasshopper..... Which hand do you wipe
with???????????
Signed By ..... Jim

"Scott" <acepilot@bloomer.net> wrote in message
news:mIqdnf8NOZevhgnYnZ2dnUVZ_qHinZ2d@bright.net...
> Huh? I missed the part of the reply that had something to do about
> homebrewing. Was it in the fine print somewhere? Everybody loves an
> internet cop. Now that you know, I trust you will post correctly in the
> future.
>
> Scott
> N0EDV
>
> Bill Turner wrote:
>
>> ORIGINAL MESSAGE:
>>
>> On Wed, 27 Dec 2006 10:22:55 -0600, "JIM"
>> <jslaird@goldfieldaccess.net> wrote:
>>
>>
>>>I'll Bet there are a lot of old timer's just shaking in there Graves at
>>>the way you have been presenting the hobby that they helped to grow.
>>
>>
>> ------------ REPLY FOLLOWS ------------
>>
>> I'll bet there are even more newsgroup users who are tired of people
>> posting messages that have nothing to do with the topic of the
>> newsgroup.
>>
>> I'll spell it out for you: The three newsgroups you have posted to
>> have nothing to do with a "moment of silence". There is newsgroup
>> which is a catch-all for amateur radio related items:
>> rec.radio.amateur.misc. Now that you know, I trust you will post
>> correctly in the future.
>>
>> Bill, W6WRT

```
From 8110164174458125653
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 28 Dec 2006 15:43:51 -0600
Newsgroups: rec.radio.amateur.homebrew
From: Ben Jackson <ben@ben.com>
Subject: Re: DDS kit
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
<12p66vqe98jm331@corp.supernews.com>
<iBFkh.11973$cB6.11909@bignews7.bellsouth.net>
Message-ID: <slrnep8ekn.1lj1.ben@saturn.home.ben.com>
User-Agent: slrn/0.9.8.0 (FreeBSD)
Date: Thu, 28 Dec 2006 15:43:51 -0600
Lines: 18
NNTP-Posting-Host: 67.189.64.253
X-Trace: sv3-KU6Z7d1GTQ/gByrydJLkk7IRzkVF6a75Xdkp/
U6DkBdIWWsmnmKFC1nVYiKMJGzE4WYxiJ5tIhe20Sl!/NjB/
RPbUWryXvriKLT9gSq9AbIIZVA3//2S0z7MGlWoMWCxKolCM980VOvC/6r/n1sRd2kTsL0F!Hnz4
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8477
```

On 2006-12-28, ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net> wrote:

> I've watched the technicians at work hand solder even finer pitch chips.
> One young woman has very good close in eyesight and works without a
> magnifier. She does have to clean up with the solder-wick, but makes
> machine like perfect solder connections. (she makes it look EASY!)
> Whats hard is doing an entire board in one sitting without getting a
> visual version of writer's cramp. (eye strain)

After you've done it enough under a microscope you learn what is going to happen and you can do a lot of it without even being able to see it, by timing and feel. Like you said in another post, there's also the part where you get used to how disgusting any solder joint looks under sufficient magnification...

--
Ben Jackson AD7GD
<ben@ben.com>
http://www.ben.com/

```
From -8248008830433965603
X-Google-Thread: fcc6e,2ae97e7b90a2c8dc
X-Google-Thread: 108122,2ae97e7b90a2c8dc
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Thread: 10bf43,2ae97e7b90a2c8dc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k21g2000cwa.googlegroups.com!not-for-
mail
From: "art" <aunwin@insightbb.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy
Subject: Re: cut out the Bullshit or turn in your license and imporve the service
SC
Date: 28 Dec 2006 18:57:33 -0800
Organization: http://groups.google.com
Lines: 44
Message-ID: <1167361053.909725.206720@k21g2000cwa.googlegroups.com>
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
   <mjc8o21aejleg93ihviietqngd6jqa6003@4ax.com>
   <458455D4.6070709@coboxincORORATED.com>
NNTP-Posting-Host: 74.133.195.205
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167361059 21418 127.0.0.1 (29 Dec 2006 02:57:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 29 Dec 2006 02:57:39 +0000 (UTC)
In-Reply-To: <458455D4.6070709@coboxincORORATED.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k21g2000cwa.googlegroups.com; posting-host=74.133.195.205;
   posting-account=9n28XgwAAABqArMkMQdWhp5TthEVV0k8
Xref: g2news2.google.com rec.radio.amateur.antenna:23638
rec.radio.amateur.equipment:7725 rec.radio.amateur.homebrew:8478
rec.radio.amateur.policy:60548
```

You have to hand it to him! He did a good job declaring his views
ragarding ham radio
ande he may be right. Ham radio is shurely on the downslide and we
can't blaim that on the FCC. We have the internet now that welcomes
everybody so it wouldn't hurt us if the FCC gave somebody else the
frequencies. We talk of public service well looking at this newsgroups
work it would be better for the whole world if America got off the
bands because we are not liked anymore and this newsgroup does not do
service to America other than showing who we really are.
Art

```
Christopher Cox wrote:
> Mark@kb9rqz.aprs wrote:
> > On Fri, 15 Dec 2006 22:31:31 -0600, "Vince Fiscus,  KB7ADL"
> > <radiation17@bresnan.net> wrote:
> >
> >
> >>Ham radio died today.
> >>
> >>Sorry for all the brow beating, it won't be happening anymore.
> >>
> >>73 de KB7ADL, AKA Slow Code
> >
> >
> > bullshit
> > http://kb9rqz.blogspot.com/
> >
>
> I am actually surprised to find out it was/is Vince. He's an O.K. guy,
> puts in volunteer time and is very knowledgeable. While I firmly believe
> this alter personality detracted from Amateur radio (Slow Code),  Vince
> has done other things to advance it.
>
> Although I know Vince is very pro Morse code, I am having trouble
> believing it was him (being Mr. Slow Code)
>
> If it was/is him, turning in his license would only be a detriment to
> the community IMHO.
>
> Chris KC8FRJ



From -4359137441905113606
X-Google-Thread: fcc6e,2ae97e7b90a2c8dc
X-Google-Thread: 108122,2ae97e7b90a2c8dc
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Thread: 10bf43,2ae97e7b90a2c8dc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!postnews.google.com!
k21g2000cwa.googlegroups.com!not-for-mail
From: "an old friend" <kb9rqz@yahoo.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy
Subject: Re: cut out the Bullshit or turn in your license and imporve the service
SC
Date: 28 Dec 2006 19:49:09 -0800
Organization: http://groups.google.com
Lines: 51
Message-ID: <1167364149.514586.39870@k21g2000cwa.googlegroups.com>
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
```

```
   <mjc8o21aejleg93ihviietqngd6jqa6003@4ax.com>
   <458455D4.6070709@coboxincORORATED.com>
   <1167361053.909725.206720@k21g2000cwa.googlegroups.com>
NNTP-Posting-Host: 66.82.9.61
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167364154 28550 127.0.0.1 (29 Dec 2006 03:49:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 29 Dec 2006 03:49:14 +0000 (UTC)
In-Reply-To: <1167361053.909725.206720@k21g2000cwa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k21g2000cwa.googlegroups.com; posting-host=66.82.9.61;
   posting-account=mGJHFw0AAABhg_iImBOts3VB5ouUQlvB
Xref: g2news2.google.com rec.radio.amateur.antenna:23647
rec.radio.amateur.equipment:7727 rec.radio.amateur.homebrew:8479
rec.radio.amateur.policy:60551


art wrote:
> You have to hand it to him! He did a good job declaring his views
> ragarding ham radio
> ande he may be right.

and his views on personal privacy (no such thing) that he wants to end
the existance of Ham radio

> Ham radio is shurely on the downslide and we
> can't blaim that on the FCC. We have the internet now that welcomes
> everybody so it wouldn't hurt us if the FCC gave somebody else the
> frequencies. We talk of public service well looking at this newsgroups
> work it would be better for the whole world if America got off the
> bands because we are not liked anymore and this newsgroup does not do
> service to America other than showing who we really are.
> Art
>
>
>
>
> Christopher Cox wrote:
> > Mark@kb9rqz.aprs wrote:
> > > On Fri, 15 Dec 2006 22:31:31 -0600, "Vince Fiscus,  KB7ADL"
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> > >>73 de KB7ADL, AKA Slow Code
> > >
```

> > >
> > > bullshit
> > > http://kb9rqz.blogspot.com/
> > >
> >
> > I am actually surprised to find out it was/is Vince. He's an O.K. guy,
> > puts in volunteer time and is very knowledgeable. While I firmly believe
> > this alter personality detracted from Amateur radio (Slow Code), Vince
> > has done other things to advance it.
> >
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> > believing it was him (being Mr. Slow Code)
> >
> > If it was/is him, turning in his license would only be a detriment to
> > the community IMHO.
> >
> > Chris KC8FRJ

```
From 8122237853099164149
X-Google-Thread: fcc6e,2ae97e7b90a2c8dc
X-Google-Thread: 108122,2ae97e7b90a2c8dc
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Thread: 10bf43,2ae97e7b90a2c8dc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s34g2000cwa.googlegroups.com!not-for-
mail
From: "art" <aunwin@insightbb.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy
Subject: Re: cut out the Bullshit or turn in your license and imporve the service
SC
Date: 28 Dec 2006 20:29:05 -0800
Organization: http://groups.google.com
Lines: 62
Message-ID: <1167366545.563639.106660@s34g2000cwa.googlegroups.com>
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
   <mjc8o21aejleg93ihviietqngd6jqa6003@4ax.com>
   <458455D4.6070709@coboxincORORATED.com>
   <1167361053.909725.206720@k21g2000cwa.googlegroups.com>
   <1167364149.514586.39870@k21g2000cwa.googlegroups.com>
NNTP-Posting-Host: 74.133.195.205
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167366551 15360 127.0.0.1 (29 Dec 2006 04:29:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 29 Dec 2006 04:29:11 +0000 (UTC)
In-Reply-To: <1167364149.514586.39870@k21g2000cwa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s34g2000cwa.googlegroups.com; posting-host=74.133.195.205;
   posting-account=9n28XgwAAABqArMkMQdWhp5TthEVV0k8
Xref: g2news2.google.com rec.radio.amateur.antenna:23653
rec.radio.amateur.equipment:7729 rec.radio.amateur.homebrew:8480
rec.radio.amateur.policy:60558
```

No he is being realistic. We have more CB sets out there than ham sets
and they are no different to hams. If there is an emergency then CB ers
would probably do a better job than hams and with less quibling. I
think the writing is on the wall for ham radio since they dont provide
a thing for the country It would be better if home security took over
the frequency as we all now use the net instead. Have you heard anybody
on the radio lately if you get my drify
Att

an old friend wrote:
> art wrote:
> > You have to hand it to him! He did a good job declaring his views
> > ragarding ham radio
> > ande he may be right.
>
> and his views on personal privacy (no such thing) that he wants to end
> the existance of Ham radio
>
> > Ham radio is shurely on the downslide and we
> > can't blaim that on the FCC. We have the internet now that welcomes
> > everybody so it wouldn't hurt us if the FCC gave somebody else the
> > frequencies. We talk of public service well looking at this newsgroups
> > work it would be better for the whole world if America got off the
> > bands because we are not liked anymore and this newsgroup does not do
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> >
> >
> >
> > Christopher Cox wrote:
> > > Mark@kb9rqz.aprs wrote:
> > > > On Fri, 15 Dec 2006 22:31:31 -0600, "Vince Fiscus, KB7ADL"
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> > > >
> > > >
> > > >>Ham radio died today.
> > > >>
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```
> > > > bullshit
> > > > http://kb9rqz.blogspot.com/
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> > > puts in volunteer time and is very knowledgeable. While I firmly believe
> > > this alter personality detracted from Amateur radio (Slow Code),  Vince
> > > has done other things to advance it.
> > >
> > > Although I know Vince is very pro Morse code, I am having trouble
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> > >
> > > If it was/is him, turning in his license would only be a detriment to
> > > the community IMHO.
> > >
> > > Chris KC8FRJ



From 5703153380262831846
X-Google-Thread: fcc6e,2ae97e7b90a2c8dc
X-Google-Thread: 108122,2ae97e7b90a2c8dc
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!48g2000cwx.googlegroups.com!not-for-
mail
From: "art" <aunwin@insightbb.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: A moment of silence my friends for a silent key.
Date: 28 Dec 2006 20:33:41 -0800
Organization: http://groups.google.com
Lines: 30
Message-ID: <1167366821.344302.125770@48g2000cwx.googlegroups.com>
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
   <blbbo25epdssnp6sk1g1ss5sc3dmuc0007@4ax.com>
   <SNednTkkkupkAA_YnZ2dnUVZ_rqhnZ2d@deskmedia.com>
   <btu7p2p382261d68p90qh0uaqfu40pec8t@4ax.com>
NNTP-Posting-Host: 74.133.195.205
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167366827 2236 127.0.0.1 (29 Dec 2006 04:33:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 29 Dec 2006 04:33:47 +0000 (UTC)
In-Reply-To: <btu7p2p382261d68p90qh0uaqfu40pec8t@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 48g2000cwx.googlegroups.com; posting-host=74.133.195.205;
   posting-account=9n28XgwAAABqArMkMQdWhp5TthEVV0k8
Xref: g2news2.google.com rec.radio.amateur.antenna:23654
```

```
rec.radio.amateur.equipment:7730 rec.radio.amateur.homebrew:8481

Heh Bill it is free membership here, leave them alone. You tell other
people to talk to them and then you do it yourself. Share and share
alike I say
Art



Bill Turner wrote:
> ORIGINAL MESSAGE:
>
> On Wed, 27 Dec 2006 10:22:55 -0600, "JIM"
>  <jslaird@goldfieldaccess.net> wrote:
>
> >I'll Bet there are a lot of old timer's just shaking in there Graves
> >at the way you have been presenting the hobby that they helped to grow.
>
> ------------ REPLY FOLLOWS ------------
>
> I'll bet there are even more newsgroup users who are tired of people
> posting messages that have nothing to do with the topic of the
> newsgroup.
>
> I'll spell it out for you: The three newsgroups you have posted to
> have nothing to do with a "moment of silence". There is  newsgroup
> which is a catch-all for amateur radio related items:
> rec.radio.amateur.misc.
>
> Now that you know, I trust you will post correctly in the future.
>
> Bill, W6WRT




From -5553189095808261702
X-Google-Thread: fcc6e,2ae97e7b90a2c8dc
X-Google-Thread: 108122,2ae97e7b90a2c8dc
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Thread: 10bf43,2ae97e7b90a2c8dc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy
Subject: Re: cut out the Bullshit or turn in your license and imporve the service
SC
Date: Thu, 28 Dec 2006 23:41:13 -0500
Message-ID: <sq69p2hue4g81lhemee43lohgncc80n0ik@4ax.com>
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
<mjc8o21aejleg93ihviietqngd6jqa6003@4ax.com>
```

<458455D4.6070709@coboxincORORATED.com>
<1167361053.909725.206720@k21g2000cwa.googlegroups.com>
<1167364149.514586.39870@k21g2000cwa.googlegroups.com>
<1167366545.563639.106660@s34g2000cwa.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 95
NNTP-Posting-Date: 29 Dec 2006 03:46:58 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:23655
rec.radio.amateur.equipment:7731 rec.radio.amateur.homebrew:8482
rec.radio.amateur.policy:60561

On 28 Dec 2006 20:29:05 -0800, "art" <aunwin@insightbb.com> wrote:

>No he is being realistic

did you read his coments?

I think so

amoug his alegations were that code skill is related to intelgence
that it worked to filter lunatics (he himself disproves that one)
that oposing his views was proof of criminal intent

>. We have more CB sets out there than ham sets
>and they are no different to hams.

they are different not saying better or worse but often quite
different

> If there is an emergency then CB ers
>would probably do a better job than hams and with less quibling.
in local matters I agree with you in larger matter no the ability of
Ham radio organize nationaly is an advantage

> I
>think the writing is on the wall for ham radio since they dont provide
>a thing for the country

I don't and I hope that finaly being free of the shcackles SC was
devoted will in time allow us to prove that

> It would be better if home security took over
>the frequency as we all now use the net instead.

nah there is NOTHING the Govt can't fuck up

> Have you heard anybody
>on the radio lately if you get my drify

I have heard em mostl y queit plenty of room for people to work on
stuff and yes some nut jobs (on CB and HAM) and some decent folks
>Att
>
>
>
>an old friend wrote:
>> art wrote:
>> > You have to hand it to him! He did a good job declaring his views
>> > ragarding ham radio
>> > ande he may be right.
>>
>> and his views on personal privacy (no such thing) that he wants to end
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>> > > >
>> > > >
>> > > >>Ham radio died today.
>> > > >>
>> > > >>Sorry for all the brow beating, it won't be happening anymore.
>> > > >>
>> > > >>73 de KB7ADL, AKA Slow Code
>> > > >
>> > > >
>> > > > bullshit
>> > > > http://kb9rqz.blogspot.com/
>> > > >
>> > >
>> > > I am actually surprised to find out it was/is Vince. He's an O.K. guy,
>> > > puts in volunteer time and is very knowledgeable. While I firmly believe
>> > > this alter personality detracted from Amateur radio (Slow Code), Vince
>> > > has done other things to advance it.
>> > >
>> > > Although I know Vince is very pro Morse code, I am having trouble
>> > > believing it was him (being Mr. Slow Code)
>> > >
>> > > If it was/is him, turning in his license would only be a detriment to

```
>> > > the community IMHO.
>> > >
>> > > Chris KC8FRJ
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com
```

```
From 3157021406440742002
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 29 Dec 2006 01:10:11 -0600
From: "Jim" <kill-spam@no-spam.org>
Newsgroups: rec.radio.amateur.homebrew
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
<x0Rnj9Q$H$kFFArr@ifwtech.co.uk> <gkUkh.12641$641.9012@bignews4.bellsouth.net>
Subject: Re: DDS kit
Date: Thu, 28 Dec 2006 23:10:10 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 0664-0, 12/28/2006), Outbound message
X-Antivirus-Status: Clean
Message-ID: <HNmdnbqlGNfOIgnYnZ2dnUVZ_ompnZ2d@comcast.com>
Lines: 38
NNTP-Posting-Host: 71.198.121.37
X-Trace: sv3-mRGTKFV0OoUJpoeTmXXtqWYIYidVjrwM449pJyJccLETH7/1Dwuz1AofI6VHnQxHEJXw/
UW8LuXDPro!IlnJsCB5RK9G7n1tmRL0OmgZ6bVW9R7YMsW4SxJzTFmELNdH666ZLx1IXNwDbuSKK/
jVjtYA3Wni!fI6pMFBQUO8ReLLzi0UoLcWr9Q==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8483
```

Personally, I'd do the DDS chip first, before the resistors and capacitors. One of the tricks I use is to clean the IC pins with rubbing Alcohol after soldering and removing shorts.

Then, I apply a hot air gun, SLOWLY bringing the temperature up on the pins of the IC. I try to get to barely melting the solder, but not burning the main board. A slow application allows the IC to heat up gradually.

This tends to remove the hairline solder bridges and clean up between the pins of the IC. Since the main DDS chip is the only part on the board, I don't have to worry about heating up and blowing the resistors and capacitors clean off the board !!!

I can, and have, used this same method on a completely assembled board, but I have to pay close attention to the small parts, the tend to want to blow away. In that case, I build a heat shield with tin foil and I press it down on the board all around the IC I want to solder flow and that usually keeps the other parts on the board where I want them.

This all takes a delicate touch, it's pretty easy to get things too hot, but it does provide nice and clean solder joints.

Jim Pennell
N6BIU

--

23:10 Pacific Time Zone
Dec 28 2006

International Time
07:10 UTC
29.12.2006

From 7742239306565214967
X-Google-Thread: 115730,13c2cf942c156fce
X-Google-Thread: fc2a5,13c2cf942c156fce
X-Google-Attributes: gid115730,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h40g2000cwb.googlegroups.com!not-for-mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: sci.electronics.equipment,rec.radio.amateur.homebrew
Subject: Re: Cal. kit for a 4195A & 41951A
Date: 29 Dec 2006 11:22:06 -0800
Organization: http://groups.google.com
Lines: 81
Message-ID: <1167420126.404594.22160@h40g2000cwb.googlegroups.com>
References: <458afe3e$0$25911$426a34cc@news.free.fr>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167420130 26686 127.0.0.1 (29 Dec 2006 19:22:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 29 Dec 2006 19:22:10 +0000 (UTC)

In-Reply-To: <458afe3e$0$25911$426a34cc@news.free.fr>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.9)
Gecko/20061206 Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h40g2000cwb.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com sci.electronics.equipment:4776
rec.radio.amateur.homebrew:8484

Fred Bartoli wrote:
> Hi,
>
> Probably a question for Tom, but others are welcomed to answer too :-)
>
> I've finally got my hands on an HP4195A (0-500MHz and freshly caled) and
> also the 41951A impedance set + 16092A fixture. Unfortunately the 41951A
> has been badly tempered and the calibration kit (short and 50R load) is
> missing.
> After some time spent I've fixed the 41951A, and seem to have a fully
> functional unit (checked through calibrating it *with* the 16092A
> fixture and a pair of selected 100R-0805 as the reference load).
> At least the measurements I could do make sense, so far.
>
> Now I'd just like to have all the possible accuracy from this and thus
> want to rebuild an APC7 cal kit I can trust.
>
> The original parts aren't available anymore, just 2 50R load left at
> agilent at a (cough) $1350 price! and no more short.
>
> I've found agilent has the 909C load which should be OK (given for
> SWR=1.005 @ 2GHz).
> I've also found an Amphenol short which should be OK since, AIUI, the
> short is made by compressing a flat piece against the ref plane of the
> mating connector.
>
> I also want to add to this an APC7-SMA adapter for some on board
> impedance measurement.
>
> I believe all this would be perfectly OK but since I have not much hands
> on experience with VNAs I'd just want to make sure.
>
> Oh, last point, for those knowing it: I don't know if the open load
> (04191-85302)is complete or not (it has an opened threading at the
> opposite of the mating end) and could I find any picture/doc of it.
>
>
> Any comment much appreciated.
>
>
> --
> Thanks,

> Fred.

Hi Fred,

Unless you are interested in making precision lab-grade measurements, I think you'll do fine with much less expensive and more available cal standards. Personally, I'd get a set of adapters from your APC-7s to SMAs -- and out to only 500MHz, even BNCs should be OK. If you want to get a bit fancier, adapt the APC-7s to 3.5mm connectors, which mate with SMAs but are higher precision. I personally don't think it's worth worrying about. It's a really good idea to always leave adapters connected to the APC-7s to protect them anyway, assuming you use the instrument often enough that you don't want to leave them covered most of the time. But never leave them uncovered! They are far to easy to damage if left unmated/uncovered.

My experience designing a 3-way splitter that needed to work well to 6GHz is that inexpensive 0805 SMT resistors in the 25 to 100 ohm range work quite well to several GHz, if you're careful about the environment around them (e.g., the size and shape of the holes bored in the grounded block that holds the connectors). I expect that if you keep lead length to essentially zero, you can turn an SMB thru-hole jack into a 50 ohm load that will have at least 40dB return loss out to 500MHz: cut the center pin to the height of the resistors, and solder two 100 ohm 0.1% 0805's radially symmetrically out from the center pin to the outer shell. If possible, get someone with a known-good cal standard set to compare it with that set. An open and a short can be created in the same way. I suppose that one of the free 2-d fields solver applications could tell you if you need to make any adjustment for length, but in any event, just using the same jacks for all three should yield lengths within a degree out to 500MHz. Maybe if I get some time to play next week, I can make some measurements of hacked "standards" against my known-good ones. I'm pretty sure I still have some of the 0.1% 50 ohm parts around.

Cheers,
Tom

From -1028219823405216057
X-Google-Thread: fc2a5,e9be391d890cd9bc,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 29 Dec 2006 13:48:52 -0600
Date: Fri, 29 Dec 2006 11:50:42 -0800
From: Clark Magnuson <c.magnuson@comcast.net>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew

Subject: How hard for a spy to receive 6855 or 8010 kHz?
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <U4KdnUv85tC57AjYnZ2dnUVZ_uiknZ2d@comcast.com>
Lines: 86
NNTP-Posting-Host: 67.183.152.9
X-Trace: sv3-YOq9Rl5VijHlV0AFMCUlWMmYH426rMn4bp9y0LvKLBFN7IKdj+lFsQCKJs/nsUn1Sdxnrih60r4fxtI!1mYET9+jr48uo6PR2t7ld4RuYgMiY+X4X47idKA6pZgT/HObpr3KcgayOAXayt2QJrx/YMKlQFvx!+kld2mpz
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8485

Could a spy modify an AM radio by adding a few capacitors?

TIA
Clark KC7FGB

I read this:
http://www.washingtonpost.com/wp-dyn/content/article/2006/12/28/AR2006122801190.html

Messages to Spies Are Coded but Not Hidden
Over Shortwave, Anyone Can Listen

By James Gordon Meek
New York Daily News
Friday, December 29, 2006; Page A25

It turns out that anybody can tune in to the world's top spy agencies talking to operatives. All you need is a cheap shortwave-radio receiver, the kind available at any drugstore.

Tune it to 6855 or 8010 kHz.

On the hour, you might hear a girlish voice repeating strings of numbers monotonously in Spanish. "Nueve, uno, nueve, tres, cinco-cinco, cuatro, cinco, tres, dos . . .," went one seemingly harmless message heard last month on a Grundig radio.

It was the Cuban Intelligence Directorate or Russian FSB broadcasting coded instructions from Havana to spies inside the United States.

Turn the dial up to 11545 kHz, and you might hear a few notes of an obscure English folk song, "Lincolnshire Poacher," followed by a voice repeating strings of numbers. That's believed to be British Secret Intelligence Service, MI6, broadcasting from Cyprus.

On 6840 kHz, you may hear a voice reading groups of letters. That's a station nicknamed "E10," thought to be Israel's Mossad intelligence.

Chris Smolinski runs SpyNumbers.com and the "Spooks" e-mail list, where "number stations" hobbyists log hundreds of shortwave messages transmitted every month. "It's like a puzzle. They're mystery stations," explained Smolinski, who has tracked the spy broadcasts for 30 years.

While hobbyists guess at the meaning of each cryptic message or which spy service sent it, it's no mystery to intelligence officials, who confirmed the purpose is espionage.

The signals are too strong to be made by amateurs and are often on licensed frequencies. The State Department once complained to the Israeli Embassy in Washington that "E10" was blocking a U.S. broadcast, a source said.

"I can't imagine who else would waste the time in front of a microphone reading numbers" but a spy, said James Bamford, who has written about intelligence. Bamford calls number stations "simple but effective" spycraft.

"It's extremely effective," agreed a senior intelligence official. "If you have a one-time pad, the code can't be broken, and you can send out dummy broadcasts as much as you want to confuse your enemy."

A "one-time pad" is the key to unlocking coded shortwave messages that the CIA calls "one-way voice link."

It is low-risk because it's known only to the sender and the recipient and used just once before being destroyed, said retired CIA officer Tony Mendez.

Mendez said he would often imprint the code on microfilm or even a cigarette paper. Once inside the target country, a CIA operative could make a shortwave receiver out of simple materials. "The voices are not real people," he added. "They're computer-generated."

A CIA spokeswoman declined to comment.

One-time pads and coded radio began in World War I, said Thomas Boghardt, a historian at the International Spy Museum. Little has changed since, judging by recent espionage cases involving shortwave radios, including that of a man detained in Canada last month and accused of being a Russian spy.

In Miami last week, Carlos and Elsa Alvarez pleaded guilty to lesser charges after the United States accused them of spying for Cuba. A prosecutor alleged in a court hearing this summer that they received shortwave "messages in five-digit groupings." An FBI interview transcript shows Alvarez admitted going into his bathroom "on Fridays to listen at 11" for messages aimed at the couple, code-named "David" and "Deborah."

```
From -3217789826637426312
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a3g2000cwd.googlegroups.com!not-for-
mail
From: "Not Cocksucker Lloyd" <not_time_turd_lloyd@yahoo.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: Tri-Faced Robesin Strikes Out Again
Date: 29 Dec 2006 12:34:19 -0800
Organization: http://groups.google.com
Lines: 28
Message-ID: <1167424458.974494.42550@a3g2000cwd.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
   <72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
   <1166788359.491358.56780@a3g2000cwd.googlegroups.com>
   <1166792384.673664.20000@80g2000cwy.googlegroups.com>
   <1166845903.893439.54470@80g2000cwy.googlegroups.com>
   <1167191264.971441.148160@42g2000cwt.googlegroups.com>
   <rbr3p29gm2q0tb6n5rk4u122vho1d5hod8@4ax.com>
   <1167230040.019945.157050@42g2000cwt.googlegroups.com>
   <hpd5p29bvj4v62gv4uqf622opfd7rcqfi3@4ax.com>
NNTP-Posting-Host: 65.54.155.36
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167424465 4407 127.0.0.1 (29 Dec 2006 20:34:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 29 Dec 2006 20:34:25 +0000 (UTC)
In-Reply-To: <hpd5p29bvj4v62gv4uqf622opfd7rcqfi3@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a3g2000cwd.googlegroups.com; posting-host=65.54.155.36;
   posting-account=NYdx0Q0AAAACkSt6kWea8S56_8dZU8tl
Xref: g2news2.google.com rec.radio.amateur.policy:60614
rec.radio.amateur.misc:27469 rec.radio.cb:24187 rec.radio.amateur.homebrew:8486


Mark@kb9rqz.aprs wrote:
> On 27 Dec 2006 06:34:00 -0800, "Not Cocksucker Lloyd"
> <not_time_turd_lloyd@yahoo.com> wrote:
>
> >
> >Mark@kb9rqz.aprs wrote:
> >> On 26 Dec 2006 19:47:45 -0800, "cmdr buzz corey"
> >> <cmdr-buzz-corey@mailcity.com> wrote:
> >>
```

> >> >
> >> >hot-ham-and-cheese@hotmail.com wrote:
> >> >
> >> >> I pointed out that MARS absolutely has non-amateur leadership,
> >> >> non-amateur participants, and an entirely non-amateur mission.
> >> >
> >> >Well, that certainly shows your ignorance.
> >>
> >> no oh foolish cartoon chartacter
> >
> >Yes, Markie, you show your ignorance every time you post.
>
> no woger you do and the cartoon chararter MARS merely uses memeber of
> the ARS it is otherwise unconceted with the ARS

Wrong, Markie, as usual. But you are just a beginner training wheel no
code tech.

From 6535403623376853199
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 29 Dec 2006 14:37:28 -0600
From: Dan Andersson <dan@andersson.co.uk>
Subject: Re: DDS kit
Newsgroups: rec.radio.amateur.homebrew
Date: Fri, 29 Dec 2006 20:37:28 +0000
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
Organization: @Home
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <XfydnRCA96EU4QjYRVnysgA@eclipse.net.uk>
Lines: 48
NNTP-Posting-Host: 87.102.17.111
X-Trace: sv3-HBmKlcvUFQH+KJDkTsHG35QmyO/
G+puHORLzaw3jnavUTg2bPZAbZ3uA6qYOzL2Mgi3Nb1PZ4TEXssP!
RELEBEGlvSkljBbmYmB21tuSz8DnV6wpMVWQxyJOzDLbRd2fV5WZDBECzV9TGqpFYmWhzN6/xOJO!
2ZNE3tI/
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8487

ken scharf wrote:

> I bought one of these kits to make use of a sample AD9851 chip I got from Analog Devices a few years ago.
>
> http://www.amqrp.org/kits/dds60/index.html
>
> I knew it was hopeless to bread board something with this chip, but even with a PC board soldering something with such close lead spacing is a challenge (especially when you're past 50 with failing close in vision and less than rock solid stable hands). Still I figured I'd give it a try. Armed with the smallest soldering tip available for my Weller PES51 soldering station, a good magnifier lamp AND a binocular microscope I gave it a try to solder the chip to the board.
>
> Well there is good news and bad news. The bad news is that it is impossible to solder the chip by hand without creating solder bridges. The good news is that I did a good enough job to get the chip 99% perfectly centered on the solder pads, and you can remove the solder bridges with solder wick without removing the chip from the PC board.
>
> It would have been easier with thiner solder (I had .021" dia solder) and a thiner soldering iron tip, but inspection with the microscope shows no shorts, and it looks like all the pins are properly soldered. Naked eye it doesn't look pretty but it should work.
>
> Now to solder those chip caps and resistors! (They should be easier, the AD9851 was the worst part to place with the tight spacing, all the other parts have lead spacing at least twice as wide).

Be sure to more or less "drown" the pins to be soldered with flux. If you get solder bridges, you probably have to little flux applied - really slob the flux on the pins. When you think you have enough of flux, add more...

Any bridges are corrected with solder wick.

The AD98xx can be soldered with a 0.5mm ceramic tip. Get one of these cheap (10$) magnifying visors, especially if you are half blind as I am...

The AD9851 is one of the easiest SMD IC's to solder as there are pins only on two sides.

Besides... We have been using SMD's since the early eighties now so stop whinging over it, adapt! They wont go away and they actually improve most RF designs!

//Dan, M0DFI

From 5669782559220577089
X-Google-Thread: fc2a5,e9be391d890cd9bc
X-Google-Attributes: gidfc2a5,public

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!n51g2000cwc.googlegroups.com!not-for-
mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How hard for a spy to receive 6855 or 8010 kHz?
Date: 29 Dec 2006 12:48:49 -0800
Organization: http://groups.google.com
Lines: 13
Message-ID: <1167425329.812085.297600@n51g2000cwc.googlegroups.com>
References: <U4KdnUv85tC57AjYnZ2dnUVZ_uiknZ2d@comcast.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167425335 6553 127.0.0.1 (29 Dec 2006 20:48:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 29 Dec 2006 20:48:55 +0000 (UTC)
In-Reply-To: <U4KdnUv85tC57AjYnZ2dnUVZ_uiknZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n51g2000cwc.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news2.google.com rec.radio.amateur.homebrew:8488
```

Clark Magnuson wrote:

> Could a spy modify an AM radio by adding a few capacitors?

Not well, but where can you buy an AM radio or capacitors anymore :-) ?
Or was this some hypothetical 1940's time-travel question?

A $10 super-el-cheapo pocket SW receiver from a discount store does just fine for picking up numbers stations. Some but not all number stations are CW or SSB and you'd need a BFO which is one step up from the super-el-cheapos.

Tim.

```
From -6384962579103008225
X-Google-Thread: fc2a5,926e3eed2de22e7a,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!84ef5383!not-for-mail
From: "Brian" <kb9bvn@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: New Mail List for QRP and Homebrewers
Lines: 7
X-Priority: 3
```

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <iOflh.5036$yx6.3460@newsread2.news.pas.earthlink.net>
Date: Fri, 29 Dec 2006 21:30:54 GMT
NNTP-Posting-Host: 76.2.192.200
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1167427854 76.2.192.200 (Fri, 29 Dec 2006 13:30:54 PST)
NNTP-Posting-Date: Fri, 29 Dec 2006 13:30:54 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8489

A new mail list has been created, catering to the QRP and homebrew hams out there. Check out the new qrp-l by visting http://qrp-l.org and signing up. You can learn more about this new group by going to http://qrp-l.net

73 de KB9BVN

From -4761013176904341867
X-Google-Thread: fc2a5,e9be391d890cd9bc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!sn-xt-sjc-02!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How hard for a spy to receive 6855 or 8010 kHz?
Date: Fri, 29 Dec 2006 21:49:49 -0000
Organization: Home for Obscure Mythical Beings
Message-ID: <12pb3bt4abitda5@corp.supernews.com>
References: <U4KdnUv85tC57AjYnZ2dnUVZ_uiknZ2d@comcast.com>
X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
X-Complaints-To: abuse@supernews.com
Lines: 33
Xref: g2news2.google.com rec.radio.amateur.homebrew:8490

In article <U4KdnUv85tC57AjYnZ2dnUVZ_uiknZ2d@comcast.com>,
Clark Magnuson <c.magnuson@comcast.net> wrote:

>Could a spy modify an AM radio by adding a few capacitors?

Possibly, but I doubt that it would work well if you started from a standard US-type AM broadcast-band receiver. The frequencies that this article speaks of are up in the HF band, roughly 10 times higher than the AM broadcast-band frequencies, and these radios' built-in loopstick antennas are not well suited to receive these sorts of signals.

A spy in most Western countries could simply buy an off-the-shelf AM/FM/shortwave receiver (very widely available).

Simple but very effective direct-conversion or superheterodyne receivers (capable of receiving CW, SSB, and AM) can be built out of "junk box" parts by anyone with a modest amount of training and experience. Many of the popular QRP receiver designs could be tweaked to receive on these sorts of frequencies with very little difficulty.

Now, if somebody had an old "7-transistor" AM radio (circa 1960 or so), it would likely be possible to salvage enough parts from it to build a simple direct-conversion shortwave receiver.

I doubt that this would be possible (or at least not easy) for today's highly-integrated IC-based radios.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Hosting the Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From -3567399779448584673
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i12g2000cwa.googlegroups.com!not-for-mail
From: "wackyvorlon" <wackyvorlon@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS kit
Date: 29 Dec 2006 15:13:06 -0800
Organization: http://groups.google.com
Lines: 13
Message-ID: <1167433986.286313.214350@i12g2000cwa.googlegroups.com>
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
   <XfydnRCA96EU4QjYRVnysgA@eclipse.net.uk>
NNTP-Posting-Host: 24.141.204.36
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1167433991 17601 127.0.0.1 (29 Dec 2006 23:13:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 29 Dec 2006 23:13:11 +0000 (UTC)
In-Reply-To: <XfydnRCA96EU4QjYRVnysgA@eclipse.net.uk>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1) Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i12g2000cwa.googlegroups.com; posting-host=24.141.204.36;
   posting-account=15zMjA0AAADf967FF4hNz2XFLYmmLwDg
Xref: g2news2.google.com rec.radio.amateur.homebrew:8491

On Dec 29, 3:37 pm, Dan Andersson <d...@andersson.co.uk> wrote:
>
> Besides... We have been using SMD's since the early eighties now so stop
> whinging over it, adapt! They wont go away and they actually improve most
> RF designs!
>

I've seen some suggestions go around that are very similar to hot-air
rework. I just wanted to mention that SparkFun electronics sells some
rework stations cheaply, and has useful tutorials on soldering SMD
parts. Their site: http://www.sparkfun.com

From 8605515115214904819
X-Google-Thread: fc2a5,d9f54922d2a4462c,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!s34g2000cwa.googlegroups.com!not-for-mail
From: microcosmoh@libero.it
Newsgroups: rec.radio.amateur.homebrew
Subject: radiosisma
Date: 29 Dec 2006 15:51:33 -0800
Organization: http://groups.google.com
Lines: 6
Message-ID: <1167436293.463362.295170@s34g2000cwa.googlegroups.com>
NNTP-Posting-Host: 82.91.121.128
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1167436299 23313 127.0.0.1 (29 Dec 2006 23:51:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 29 Dec 2006 23:51:39 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: s34g2000cwa.googlegroups.com; posting-host=82.91.121.128;
   posting-account=EkISIA0AAACk6G3pkglHNyWSzlImvt1H
Xref: g2news2.google.com rec.radio.amateur.homebrew:8492

Hi you all there! We do want to give you something you can't miss! Next
saturday the fantastic webradio RADIOSISMA will be activated on the
evening (with no problem in buffering, we're streaming now). Stay tuned
to see how rock we are! To go to the link click
here:www.arcimero.blogspot.com.

From -9207028106221478943
X-Google-Thread: fc2a5,9cd67f2b50caa437,start

```
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wn14feed!worldnet.att.net!bgtnsc04-
news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: MORE PARTS AND STUFF--LOOK
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <dYilh.603544$QZ1.15149@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: 06aa79136bcb4124ad7084abb728f359
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1167440777
06aa79136bcb4124ad7084abb728f359 (Sat, 30 Dec 2006 01:06:17 GMT)
NNTP-Posting-Date: Sat, 30 Dec 2006 01:06:17 GMT
Organization: AT&T Worldnet
Date: Sat, 30 Dec 2006 01:06:17 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8493
```

Have just added more parts and stuff --take a look--HELP ME GET RID OF THIS ACCUMULATION!

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

Tnx heytubeguy

```
From -1892048835564775147
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.maxwell.syr.edu!newsfeed.icl.net!
newsfeed.freenet.de!feeder.news-service.com!tudelft.nl!txtfeed1.tudelft.nl!
feeder1.cambrium.nl!feed.tweaknews.nl!news2.euro.net!66.150.105.54.MISMATCH!
nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: Tri-Faced Robesin Strikes Out Again
Date: Fri, 29 Dec 2006 23:06:16 -0500
Message-ID: <kcpbp2l9ksqg40j4qme0tnie8auv1kggv5@4ax.com>
References: <72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
```

```
<1166788359.491358.56780@a3g2000cwd.googlegroups.com>
<1166792384.673664.20000@80g2000cwy.googlegroups.com>
<1166845903.893439.54470@80g2000cwy.googlegroups.com>
<1167191264.971441.148160@42g2000cwt.googlegroups.com>
<rbr3p29gm2q0tb6n5rk4u122vho1d5hod8@4ax.com>
<1167230040.019945.157050@42g2000cwt.googlegroups.com>
<hpd5p29bvj4v62gv4uqf622opfd7rcqfi3@4ax.com>
<1167424458.974494.42550@a3g2000cwd.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 35
NNTP-Posting-Date: 30 Dec 2006 03:12:09 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:60661
rec.radio.amateur.misc:27479 rec.radio.cb:24210 rec.radio.amateur.homebrew:8494

On 29 Dec 2006 12:34:19 -0800, "Not Cocksucker Lloyd"
<not_time_turd_lloyd@yahoo.com> wrote:

>
>Mark@kb9rqz.aprs wrote:
>> On 27 Dec 2006 06:34:00 -0800, "Not Cocksucker Lloyd"
>> <not_time_turd_lloyd@yahoo.com> wrote:
>>
>> >
>> >Mark@kb9rqz.aprs wrote:
>> >> On 26 Dec 2006 19:47:45 -0800, "cmdr buzz corey"
>> >> <cmdr-buzz-corey@mailcity.com> wrote:
>> >>
>> >> >
>> >> >hot-ham-and-cheese@hotmail.com wrote:
>> >> >
>> >> >> I pointed out that MARS absolutely has non-amateur leadership,
>> >> >> non-amateur participants, and an entirely non-amateur mission.
>> >> >
>> >> >Well, that certainly shows your ignorance.
>> >>
>> >> no oh foolish cartoon chartacter
>> >
>> >Yes, Markie, you show your ignorance every time you post.
>>
>> no woger you do and the cartoon chararter MARS merely uses memeber of
>> the ARS it is otherwise unconceted with the ARS
>
>Wrong, Markie, as usual. But you are just a beginner training wheel no
>code tech.

woger MARS is simply a part of the Dod operating on thiier rules

gues even taking your test twice taught you nothing
http://kb9rqz.blogspot.com/
```

--
Posted via a free Usenet account from http://www.teranews.com

---

```
From -1788432042653025516
X-Google-Thread: fc2a5,e9be391d890cd9bc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!84ef5383!not-for-mail
From: "Brian" <kb9bvn@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
References: <U4KdnUv85tC57AjYnZ2dnUVZ_uiknZ2d@comcast.com>
Subject: Re: How hard for a spy to receive 6855 or 8010 kHz?
Lines: 96
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Message-ID: <14mlh.4465$pQ3.2365@newsread4.news.pas.earthlink.net>
Date: Sat, 30 Dec 2006 04:39:25 GMT
NNTP-Posting-Host: 76.2.192.200
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1167453565 76.2.192.200 (Fri, 29 Dec
2006 20:39:25 PST)
NNTP-Posting-Date: Fri, 29 Dec 2006 20:39:25 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8495
```

Or the spy could just login to any of the dozens of SW receivers on the web and tune to his/her favorite spy frequency.

But that's not romantic at all!

"Clark Magnuson" <c.magnuson@comcast.net> wrote in message
news:U4KdnUv85tC57AjYnZ2dnUVZ_uiknZ2d@comcast.com...

> Could a spy modify an AM radio by adding a few capacitors?
>
> TIA
> Clark KC7FGB
>
> I read this:
> http://www.washingtonpost.com/wp-dyn/content/article/2006/12/28/AR2006122801190.html
>
> Messages to Spies Are Coded but Not Hidden
> Over Shortwave, Anyone Can Listen
>

> By James Gordon Meek
> New York Daily News
> Friday, December 29, 2006; Page A25
>
> It turns out that anybody can tune in to the world's top spy agencies talking to operatives. All you need is a cheap shortwave-radio receiver, the kind available at any drugstore.
>
> Tune it to 6855 or 8010 kHz.
>
> On the hour, you might hear a girlish voice repeating strings of numbers monotonously in Spanish. "Nueve, uno, nueve, tres, cinco-cinco, cuatro, cinco, tres, dos . . .," went one seemingly harmless message heard last month on a Grundig radio.
>
> It was the Cuban Intelligence Directorate or Russian FSB broadcasting coded instructions from Havana to spies inside the United States.
>
> Turn the dial up to 11545 kHz, and you might hear a few notes of an obscure English folk song, "Lincolnshire Poacher," followed by a voice repeating strings of numbers. That's believed to be British Secret Intelligence Service, MI6, broadcasting from Cyprus.
>
> On 6840 kHz, you may hear a voice reading groups of letters. That's a station nicknamed "E10," thought to be Israel's Mossad intelligence.
>
> Chris Smolinski runs SpyNumbers.com and the "Spooks" e-mail list, where "number stations" hobbyists log hundreds of shortwave messages transmitted every month. "It's like a puzzle. They're mystery stations," explained Smolinski, who has tracked the spy broadcasts for 30 years.
>
> While hobbyists guess at the meaning of each cryptic message or which spy service sent it, it's no mystery to intelligence officials, who confirmed the purpose is espionage.
>
> The signals are too strong to be made by amateurs and are often on licensed frequencies. The State Department once complained to the Israeli Embassy in Washington that "E10" was blocking a U.S. broadcast, a source said.
>
> "I can't imagine who else would waste the time in front of a microphone reading numbers" but a spy, said James Bamford, who has written about intelligence. Bamford calls number stations "simple but effective" spycraft.
>
> "It's extremely effective," agreed a senior intelligence official. "If you have a one-time pad, the code can't be broken, and you can send out dummy broadcasts as much as you want to confuse your enemy."
>
> A "one-time pad" is the key to unlocking coded shortwave messages that the CIA calls "one-way voice link."
>
> It is low-risk because it's known only to the sender and the recipient and

```
> used just once before being destroyed, said retired CIA officer Tony
> Mendez.
>
> Mendez said he would often imprint the code on microfilm or even a
> cigarette paper. Once inside the target country, a CIA operative could
> make a shortwave receiver out of simple materials. "The voices are not
> real people," he added. "They're computer-generated."
>
> A CIA spokeswoman declined to comment.
>
> One-time pads and coded radio began in World War I, said Thomas Boghardt,
> a historian at the International Spy Museum. Little has changed since,
> judging by recent espionage cases involving shortwave radios, including
> that of a man detained in Canada last month and accused of being a Russian
> spy.
>
> In Miami last week, Carlos and Elsa Alvarez pleaded guilty to lesser
> charges after the United States accused them of spying for Cuba. A
> prosecutor alleged in a court hearing this summer that they received
> shortwave "messages in five-digit groupings." An FBI interview transcript
> shows Alvarez admitted going into his bathroom "on Fridays to listen at
> 11" for messages aimed at the couple, code-named "David" and "Deborah."
```

```
From 434268041602701124
X-Google-Thread: fc2a5,e9be391d890cd9bc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k21g2000cwa.googlegroups.com!not-for-
mail
From: mailbox@cpacker.org
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How hard for a spy to receive 6855 or 8010 kHz?
Date: 30 Dec 2006 04:14:01 -0800
Organization: http://groups.google.com
Lines: 15
Message-ID: <1167480841.353997.223460@k21g2000cwa.googlegroups.com>
References: <U4KdnUv85tC57AjYnZ2dnUVZ_uiknZ2d@comcast.com>
   <14mlh.4465$pQ3.2365@newsread4.news.pas.earthlink.net>
NNTP-Posting-Host: 216.164.52.92
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167480845 3570 127.0.0.1 (30 Dec 2006 12:14:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 30 Dec 2006 12:14:05 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.02 (X11; Linux i686; U; en),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k21g2000cwa.googlegroups.com; posting-host=216.164.52.92;
   posting-account=mQy4SQwAAAARIGy7DuQyumVpXjTCLbxr
Xref: g2news2.google.com rec.radio.amateur.homebrew:8496
```

Brian wrote:
> Or the spy could just login to any of the dozens of SW receivers on the web
> and tune to his/her favorite spy frequency.
>

Could you clarify this? You mean there are Web sites where
you type in an arbitrary frequency and hear what's being
broadcast on it?

--
Charles Packer
http://cpacker.org/whatnews
mailboxATcpacker.org

From 769463381646460105
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews3.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS kit
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
<XfydnRCA96EU4QjYRVnysgA@eclipse.net.uk>
<1167433986.286313.214350@i12g2000cwa.googlegroups.com>
In-Reply-To: <1167433986.286313.214350@i12g2000cwa.googlegroups.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 32
Message-ID: <iQylh.12850$n57.7802@bignews3.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcboichlbfbhcgbkmholmofndannckjpjiienb
ihlgfkkgnpplbnjildmiinlclfekacihbbjoldfngcmehnjkobfdiaejbhenehcoceakhbpkdndkgj
NNTP-Posting-Date: Sat, 30 Dec 2006 14:10:06 EST
Organization: BellSouth Internet Group
Date: Sat, 30 Dec 2006 14:10:21 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8497

wackyvorlon wrote:
>
> On Dec 29, 3:37 pm, Dan Andersson <d...@andersson.co.uk> wrote:

>> Besides... We have been using SMD's since the early eighties now so stop
>> whinging over it, adapt! They wont go away and they actually improve most
>> RF designs!
>>
> I've seen some suggestions go around that are very similar to hot-air
> rework. I just wanted to mention that SparkFun electronics sells some
> rework stations cheaply, and has useful tutorials on soldering SMD
> parts. Their site: http://www.sparkfun.com
>

When you have a proper pc board smt is easy (once you've mastered the new soldering techniques. I had no problem getting the AD9851 onto the board. I think the microscopic hairs I'm seeing are a result of using the solder braid wick. I may have not heated it enough and pulled it off too soon leaving solder hairs behind. Flux sure does help, and I'll use plenty when I solder the next few smt ic's down.

I have some smt mounting boards that allow mixing smt parts with through hole on 100 mil grid proto boards. I fear that the extra long leads this adds to the smt parts will make rf performance a problem, especially with 100-400mhz clock signals to the dds chips (AD9951). I've heard of people designing their own pc boards using laser printer output and iron on toner for resit. I've tried this before but with 'bleeding' of the toner during application I don't think I can get better than 50 mil trace separation. Also I've had bad luck etching boards with very thin traces, the traces get etched away before larger areas of copper are finished etching. If I try designing boards for SMT parts I'll probably have to farm them out to a professional house, but this can be expensive for making but one board. (Unless you plan on writing a QST article and selling the extra boards....).

```
From -4412991663116854566
X-Google-Thread: fcc6e,2ae97e7b90a2c8dc
X-Google-Thread: 108122,2ae97e7b90a2c8dc
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.deskmedia.com!
news.deskmedia.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 30 Dec 2006 13:25:50 -0600
Reply-To: "JIM" <cjjimmie@yahoo.com>
From: "JIM" <cjjimmie@yahoo.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
<blbbo25epdssnp6sk1g1ss5sc3dmuc0007@4ax.com>
<SNednTkkkupkAA_YnZ2dnUVZ_rqhnZ2d@deskmedia.com>
<btu7p2p382261d68p90qh0uaqfu40pec8t@4ax.com>
<1167366821.344302.125770@48g2000cwx.googlegroups.com>
Subject: Re: A moment of silence my friends for a silent key.
Date: Sat, 30 Dec 2006 13:25:42 -0600
X-Priority: 3
```

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <1PSdndZAPL-iIAvYnZ2dnUVZ_vupnZ2d@deskmedia.com>
Lines: 46
NNTP-Posting-Host: 63.168.115.135
X-Trace: sv3-QeQXETSLZawfDesTaLYkOWn3Sf3Z6IdE0aoKwv/ey92Dg35CI/
4FSIVitZZF1GNXT0pimzevVBpiQbo!BWN5LUktYMioDtd9f0o3Dbd5GGchXBb1C+bpxRPI/
SI7rHQOPhQJRz7qHxhrw9XEg7kop2t21Yl9!QvWzv08G728zC7AY5yA=
X-Complaints-To: abuse@deskmedia.com
X-DMCA-Complaints-To: abuse@deskmedia.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.antenna:23744
rec.radio.amateur.equipment:7744 rec.radio.amateur.homebrew:8498

Art::
You are a Scholar and a Gentleman, and you are right on the point.
Thank You for your Honesty. A truly Noble Man you are. My friend ordered me a Gordon West study guide.I thought it over and I feel I might just be able to add a little bit of good to the Wonderful Hobby Of Ham Radio. Good men as yourself will be needing help in the future. I learned a important thing. Don't complain if your not willing to help. I will be honored to Follow in the foot step's of those who have walked down the Road before me. I am but a humble man in the eye's of my peer's.
Soon to be a New Be......
.....Jim....

"art" <aunwin@insightbb.com> wrote in message
news:1167366821.344302.125770@48g2000cwx.googlegroups.com...
> Heh Bill it is free membership here, leave them alone. You tell other
> people to talk to them and then you do it yourself. Share and share
> alike I say
> Art
>
>
> Bill Turner wrote:
>> ORIGINAL MESSAGE:
>>
>> On Wed, 27 Dec 2006 10:22:55 -0600, "JIM"
>> <jslaird@goldfieldaccess.net> wrote:
>>
>> >I'll Bet there are a lot of old timer's just shaking in there Graves
>> >at the way you have been presenting the hobby that they helped to grow.
>>
>> ------------ REPLY FOLLOWS ------------
>>
>> I'll bet there are even more newsgroup users who are tired of people
>> posting messages that have nothing to do with the topic of the
>> newsgroup.

```
>>
>> I'll spell it out for you: The three newsgroups you have posted to
>> have nothing to do with a "moment of silence". There is  newsgroup
>> which is a catch-all for amateur radio related items:
>> rec.radio.amateur.misc.
>>
>> Now that you know, I trust you will post correctly in the future.
>>
>> Bill, W6WRT
>




From 1101510495299051782
X-Google-Thread: fc2a5,e9be391d890cd9bc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!news.osn.de!
diablo2.news.osn.de!news.tele.dk!news.tele.dk!small.news.tele.dk!
feed118.news.tele.dk!not-for-mail
Subject: Re: How hard for a spy to receive 6855 or 8010 kHz?
From: Gandhi <no@email.here>
References: <U4KdnUv85tC57AjYnZ2dnUVZ_uiknZ2d@comcast.com>
<14mlh.4465$pQ3.2365@newsread4.news.pas.earthlink.net>
<1167480841.353997.223460@k21g2000cwa.googlegroups.com>
Newsgroups: rec.radio.amateur.homebrew
Message-ID: <mn.f4de7d6cf7585f31.64286@email.here>
X-Newsreader: MesNews/1.06.00.00-da
Date: Sat, 30 Dec 2006 20:46:24 +0100
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-15"; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 17
Organization: TDC Totalloesninger
NNTP-Posting-Host: 83.92.21.79
X-Trace: 1167507983 dread15.news.tele.dk 14034 83.92.21.79:46668
X-Complaints-To: abuse@post.tele.dk
Xref: g2news2.google.com rec.radio.amateur.homebrew:8499

mailbox@cpacker.org asked:
>
> Could you clarify this? You mean there are Web sites where
> you type in an arbitrary frequency and hear what's being
> broadcast on it?
>

http://www.dxtuners.com/

--
Gandhi

Lisa, if the Bible has taught us nothing else - and it hasn't - it's
```

```
that girls should stick to girls' sports, such as hot oil wrestling and
foxy boxing and such and such.




From 549118598820881193
X-Google-Thread: fc2a5,e9be391d890cd9bc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!
news.tele.dk!feed118.news.tele.dk!not-for-mail
Subject: Re: How hard for a spy to receive 6855 or 8010 kHz?
From: Gandhi <no@email.here>
References: <U4KdnUv85tC57AjYnZ2dnUVZ_uiknZ2d@comcast.com>
<1167425329.812085.297600@n51g2000cwc.googlegroups.com>
Newsgroups: rec.radio.amateur.homebrew
Message-ID: <mn.f4df7d6c8d70be78.64286@email.here>
X-Newsreader: MesNews/1.06.00.00-da
Date: Sat, 30 Dec 2006 20:47:48 +0100
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-15"; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 19
Organization: TDC Totalloesninger
NNTP-Posting-Host: 83.92.21.79
X-Trace: 1167508067 dread15.news.tele.dk 14013 83.92.21.79:15880
X-Complaints-To: abuse@post.tele.dk
Xref: g2news2.google.com rec.radio.amateur.homebrew:8500

Tim Shoppa wrote:
>
> A $10 super-el-cheapo pocket SW receiver from a discount store does
> just fine for picking up numbers stations. Some but not all number
> stations are CW or SSB and you'd need a BFO which is one step up from
> the super-el-cheapos.
>
> Tim.

Well, some numbers stations actually transmit modulated morse, so you
wouldn't need a BFO.

--
Gandhi

Son, when you participate in sporting events, it's not whether you
win or lose: it's how drunk you get.




From 751510388396102097
X-Google-Thread: fc2a5,115bcafc1f0ec553
```

X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: "RST Engineering" <jim@rstengineering.com>
Newsgroups: rec.radio.amateur.homebrew
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
<XfydnRCA96EU4QjYRVnysgA@eclipse.net.uk>
<1167433986.286313.214350@i12g2000cwa.googlegroups.com>
<iQylh.12850$n57.7802@bignews3.bellsouth.net>
Subject: Re: DDS kit
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <0mDlh.114$yF6.56376@news.sisna.com>
Date: Sat, 30 Dec 2006 16:18:48 -0800
NNTP-Posting-Host: 70.41.242.222
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1167524348 70.41.242.222 (Sat, 30 Dec 2006 17:19:08 MST)
NNTP-Posting-Date: Sat, 30 Dec 2006 17:19:08 MST
Organization: Internet News Service
X-Received-Date: Sat, 30 Dec 2006 17:19:08 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8501

All of my first year students can hold 20 mil traces and spaces, the C students can hold 15 mil, and the really good ones can hold 10.

Jim

> I've heard of people designing their own pc boards using laser printer
> output and iron on toner for resit. I've tried this before but with
> 'bleeding' of the toner during application I don't think I can get
> better than 50 mil trace separation.

From 7560072101270263944
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 31 Dec 2006 04:22:42 -0600
Newsgroups: rec.radio.amateur.homebrew
From: Ben Jackson <ben@ben.com>
Subject: Re: DDS kit

```
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
<XfydnRCA96EU4QjYRVnysgA@eclipse.net.uk>
<1167433986.286313.214350@i12g2000cwa.googlegroups.com>
<iQylh.12850$n57.7802@bignews3.bellsouth.net>
Message-ID: <slrnepf3ri.dva.ben@saturn.home.ben.com>
User-Agent: slrn/0.9.8.0 (FreeBSD)
Date: Sun, 31 Dec 2006 04:22:42 -0600
Lines: 29
NNTP-Posting-Host: 67.189.64.253
X-Trace: sv3-jlCQxKs23icMp5DB9g/rxrjPmyLd0aZJVLF2k4EpHd8XQYkyM1tehlnU2anZUU0ZFm+/
TSpFEzJFnAe!Cy9bAnhbsWgqLqNVoCu0SXOV5P0hvBSjNQI+uNHCSgGVVTLmHwvL1doV+uldb/
djesUYtSWvAduj!gJ0=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8502
```

On 2006-12-30, ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net> wrote:

> I've heard of people designing their own pc boards using laser printer output and iron on toner for resit. I've tried this before but with 'bleeding' of the toner during application I don't think I can get better than 50 mil trace separation.

Print your design on some kind of clay coated paper (people have used everything from magazine pages to photo paper intended for inkjets) and look at the print with a loupe. Cheap laser printers will produce a result full of pinholes. A nice Xerox will make a good, solid black. I haven't had any trouble with toner melting or running. In fact, once you transfer it onto the PCB it's hard to get off!

> If I try designing boards for SMT parts I'll probably have to farm them out to a professional house, but this can be expensive for making but one board. (Unless you plan on writing a QST article and selling the extra boards....).

You've got to pick the right board house for each order. Some, like batchpcb.com, are particularly cheap if you want few, small boards. They don't have setup fees or even per-board fees, only a per-order charge. But their $2.50/in^2 grows faster than some other places which have bigger minimum size boards/minimum orders.

--
Ben Jackson AD7GD
<ben@ben.com>
http://www.ben.com/

```
From 4740125039484937277
X-Google-Thread: fc2a5,115bcafc1f0ec553
```

X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: quandong nut <me@privacy.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS kit
Date: Sun, 31 Dec 2006 20:29:44 +0800
Message-ID: <75bfp2ducsamivafphe5mqmf3acgt9qvq6@4ax.com>
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
<XfydnRCA96EU4QjYRVnysgA@eclipse.net.uk>
<1167433986.286313.214350@i12g2000cwa.googlegroups.com>
<iQylh.12850$n57.7802@bignews3.bellsouth.net>
<slrnepf3ri.dva.ben@saturn.home.ben.com>
X-Newsreader: Forte Free Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: dsl-58-7-236-44.wa.westnet.com.au
X-Trace: quokka.wn.com.au 1167564468 58.7.236.44 (31 Dec 2006 20:27:48 +0800)
Lines: 15
X-Complaints-To: abuse@westnet.com.au
Path: g2news2.google.com!news3.google.com!news.glorb.com!quokka.wn.com.au!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8503

On Sun, 31 Dec 2006 04:22:42 -0600, Ben Jackson <ben@ben.com> wrote:

>You've got to pick the right board house for each order. Some, like
>batchpcb.com, are particularly cheap if you want few, small boards.
>They don't have setup fees or even per-board fees, only a per-order
>charge. But their $2.50/in^2 grows faster than some other places
>which have bigger minimum size boards/minimum orders.

I have been using an off-shore fab for years and they seem to do just what i want, but have setup fees that make protos expensive. So I went and looked at batchpcb.com but they do mention a $US10 setup fee in their FAQ.

http://www.batchpcb.com/faq.php?osCsid=87afcc3754a0ea1bc1a389ad75decda8

Do they actually charge it?

From 5969009615373481699
X-Google-Thread: 108122,9522e97e764934e5,start
X-Google-Thread: fc2a5,9522e97e764934e5,start
X-Google-Thread: 107ada,9522e97e764934e5,start
X-Google-Thread: 10bf43,9522e97e764934e5,start
X-Google-Thread: 10e8ad,9522e97e764934e5,start
X-Google-Attributes: gid108122,gidfc2a5,gid107ada,gid10bf43,gid10e8ad,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!newscon05.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!newssvr19.news.prodigy.com.POSTED!dde308f5!not-for-mail

From: "Nighthawk" <miner1@flash.net>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space
Subject: Visit Nighthawk's Forum
Lines: 7
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <jtTlh.10746$ZT3.9390@newssvr19.news.prodigy.com>
NNTP-Posting-Host: 70.129.41.236
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr19.news.prodigy.com 1167590351 ST000 70.129.41.236 (Sun, 31 Dec 2006 13:39:11 EST)
NNTP-Posting-Date: Sun, 31 Dec 2006 13:39:11 EST
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
[[PAPDONXJTORT@[_@CHOPP@FJ^ZTB\MV@BZMVMHQAVTUZ]CLNTCPFK[WDXDHV[K^FCGJCJLPF_D_NCC@FUG^Q\DINVAXSLIFXYJSSCCALP@PB@\OS@BITWAH\CQZKJMMD^SJA^NXA\GVLSRBD^M_NW_F[YLVTWIGAXAQBOATKBBQRXECDFDMQ\DZFUE@\JM
Date: Sun, 31 Dec 2006 12:38:54 -0600
Xref: g2news2.google.com rec.radio.amateur.equipment:7747
rec.radio.amateur.homebrew:8504 rec.radio.amateur.misc:27516
rec.radio.amateur.policy:60838 rec.radio.amateur.space:559

If you have communications equipment you either want to buy, sell or give away, or you want to find out information on that new antenna, or radio you got for Christmas, visit Nighthawk's Forum

http://nighthawk.suddenlaunch2.com

From -7883453520941688O1
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!130.81.64.211.MISMATCH!cycny01.gnilink.net!bigfeed3.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews8.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS kit
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
<XfydnRCA96EU4QjYRVnysgA@eclipse.net.uk>
<1167433986.286313.214350@i12g2000cwa.googlegroups.com>

<iQylh.12850$n57.7802@bignews3.bellsouth.net>
<slrnepf3ri.dva.ben@saturn.home.ben.com>
In-Reply-To: <slrnepf3ri.dva.ben@saturn.home.ben.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 34
Message-ID: <IlUlh.21972$3v6.16672@bignews8.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mabncmnekmdohbabdbdpiflmbcekedmfhojhikkbagflhcbolichcmcegipkeoeghebakmlfngoclfebnb
ihlgfkkgnpplbnccfoaboojhhbihajihbbjoldfngcmehnbpmdnkfhdbankdioakophejlobjfjgpl
NNTP-Posting-Date: Sun, 31 Dec 2006 14:39:20 EST
Organization: BellSouth Internet Group
Date: Sun, 31 Dec 2006 14:39:35 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8505

Ben Jackson wrote:
> On 2006-12-30, ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net> wrote:
>> I've heard of people designing their own pc boards using laser printer
>> output and iron on toner for resit. I've tried this before but with
>> 'bleeding' of the toner during application I don't think I can get
>> better than 50 mil trace separation.
>
> Print your design on some kind of clay coated paper (people have
> used everything from magazine pages to photo paper intended for
> inkjets) and look at the print with a loupe. Cheap laser printers
> will produce a result full of pinholes. A nice Xerox will make a
> good, solid black. I haven't had any trouble with toner melting
> or running. In fact, once you transfer it onto the PCB it's hard
> to get off!
>
>> If I try designing boards for SMT
>> parts I'll probably have to farm them out to a professional house, but
>> this can be expensive for making but one board. (Unless you plan on
>> writing a QST article and selling the extra boards....).
>
> You've got to pick the right board house for each order. Some, like
> batchpcb.com, are particularly cheap if you want few, small boards.
> They don't have setup fees or even per-board fees, only a per-order
> charge. But their $2.50/in^2 grows faster than some other places
> which have bigger minimum size boards/minimum orders.
>

My problem with the iron on transfers wasn't being able to print thin, close spaced lines on to the transfer medium. The problem was that when ironed on the toner lines 'spread out' so adjacent lines touched. Also a problem was timing just how long to leave the board in the soup to etch. I did heat the etchant up first and used an IR lamp to try and keep it warm, but even so the thin close spaced traces were close to being over etched long before larger and wider spaced traces were 'done'. (maybe a problem with 'Radio Shack' etchant?)

From 5153993289726001953
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread3.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
Message-ID: <4598145A.5010005@invalid.invalid>
From: Doug Smith W9WI <w9wi@invalid.invalid>
Reply-To: w9wi@invalid.invalid
Organization: Ham Radio W9WI
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.0.1) Gecko/20020830
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS kit
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net> <XfydnRCA96EU4QjYRVnysgA@eclipse.net.uk> <1167433986.286313.214350@i12g2000cwa.googlegroups.com> <iQylh.12850$n57.7802@bignews3.bellsouth.net> <0mDlh.114$yF6.56376@news.sisna.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 13
Date: Sun, 31 Dec 2006 19:49:47 GMT
NNTP-Posting-Host: 4.153.71.11
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1167594587 4.153.71.11 (Sun, 31 Dec 2006 11:49:47 PST)
NNTP-Posting-Date: Sun, 31 Dec 2006 11:49:47 PST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8506

RST Engineering wrote:
> All of my first year students can hold 20 mil traces and spaces, the C
> students can hold 15 mil, and the really good ones can hold 10.

Yeah, but I'll bet your first year students' eyesight is 30 years younger than that of the average participant in this NG<grin>!

--
Doug Smith W9WI
Pleasant View (Nashville), TN EM66
http://www.w9wi.com
(I was a first-year student 29 years ago)

From -5862396560067636150
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!

```
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 31 Dec 2006 15:34:22 -0600
Newsgroups: rec.radio.amateur.homebrew
From: Ben Jackson <ben@ben.com>
Subject: Re: DDS kit
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
<XfydnRCA96EU4QjYRVnysgA@eclipse.net.uk>
<1167433986.286313.214350@i12g2000cwa.googlegroups.com>
<iQylh.12850$n57.7802@bignews3.bellsouth.net>
<slrnepf3ri.dva.ben@saturn.home.ben.com>
<75bfp2ducsamivafphe5mqmf3acgt9qvq6@4ax.com>
Message-ID: <slrnepgb6u.ngo.ben@saturn.home.ben.com>
User-Agent: slrn/0.9.8.0 (FreeBSD)
Date: Sun, 31 Dec 2006 15:34:22 -0600
Lines: 18
NNTP-Posting-Host: 67.189.64.253
X-Trace: sv3-vwkNuuQU8ec20otw2PgMUmbfTZbz5ih2CozI3KfJzMWM7Vh/
S2EBgREXI8izHgKHaZAzcIqkMTL+LOp!gWB9+X/
iP32aFiCm7x4kmTvfdzOUP1VRL0zcvIzKp93OPl1JGqYesNMhWUZgpLH76IrDqb8f0K3B!htQ=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8507

On 2006-12-31, quandong nut <me@privacy.net> wrote:
> I have been using an off-shore fab for years and they seem to do just what i
> want, but have setup fees that make protos expensive.  So I went and looked at
> batchpcb.com but they do mention a $US10 setup fee in their FAQ.
>
> http://www.batchpcb.com/faq.php?osCsid=87afcc3754a0ea1bc1a389ad75decda8
>
> Do they actually charge it?

There's a $10 fee per order.  But it's not per board or even per design.
It's more like a "shipping and handling" fee.  So if you keep some boards
on file with them you can always throw in a few (smt adapters, or proto
boards) with another order for only the sq in cost.

--
Ben Jackson AD7GD
<ben@ben.com>
http://www.ben.com/


From 6134858573775622311
X-Google-Thread: fc2a5,e9be391d890cd9bc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!news.kjsl.com!
ncf.ca!FreeNet.Carleton.CA!et472
```

From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How hard for a spy to receive 6855 or 8010 kHz?
Date: 1 Jan 2007 03:49:31 GMT
Organization: The National Capital FreeNet
Lines: 96
Message-ID: <ena0cb$1t0$1@theodyn.ncf.ca>
References: <U4KdnUv85tC57AjYnZ2dnUVZ_uiknZ2d@comcast.com>
<12pb3bt4abitda5@corp.supernews.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1167623371 1952 134.117.136.48 (1 Jan 2007 03:49:31 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 1 Jan 2007 03:49:31 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8508

Dave Platt (dplatt@radagast.org) writes:
> In article <U4KdnUv85tC57AjYnZ2dnUVZ_uiknZ2d@comcast.com>,
> Clark Magnuson <c.magnuson@comcast.net> wrote:
>
>>Could a spy modify an AM radio by adding a few capacitors?
>
> Possibly, but I doubt that it would work well if you started from a
> standard US-type AM broadcast-band receiver. The frequencies that
> this article speaks of are up in the HF band, roughly 10 times higher
> than the AM broadcast-band frequencies, and these radios' built-in
> loopstick antennas are not well suited to receive these sorts of
> signals.
>
> A spy in most Western countries could simply buy an off-the-shelf
> AM/FM/shortwave receiver (very widely available).
>
> Simple but very effective direct-conversion or superheterodyne
> receivers (capable of receiving CW, SSB, and AM) can be built out of
> "junk box" parts by anyone with a modest amount of training and
> experience. Many of the popular QRP receiver designs could be tweaked
> to receive on these sorts of frequencies with very little difficulty.
>
> Now, if somebody had an old "7-transistor" AM radio (circa 1960
> or so), it would likely be possible to salvage enough parts from it
> to build a simple direct-conversion shortwave receiver.
>
> I doubt that this would be possible (or at least not easy) for today's
> highly-integrated IC-based radios.
>

First, a "spy" is not going to need to build a radio. They will be
able to get their hands on something locally, or (as in WWII), they'll
be parachuted in with the needed equipment. And in this day and age,
with so many means of communication (and at least for the moment, no
all-encompassing wars), there are all kinds of mainstream means of
contacting spies without being tracked. Traditionally, spies were not
radio experts, unless their job was to accumulate information on
radio matters.

But, if someone really did need to assemble a shortwave radio, I suspect it's far easier today than in the past. At the very least, no more difficult than in the past.

Thirty years ago, magazines were full of simple superhets based on standard AM radios. Some would rework the front end circuitry to tune a shortwave band, and the fact that ICs are used rather than transistors isn't likely to make that really difficult. I can remember in 1971 when RCA introduced the CA3088 AM radio IC, and QST ran an article pointing out how it could be used. Obviously not the best choice, but an IC instead of transistors isn't likely to make a worse receiver. The limitations would come from image rejection and lousy selectivity (and maybe lack of IF gain), and those were all there with transistor based radios.

Others would strip off the front end tuned circuits, and simply use the AM broadcast receiver as a 455KHz IF, building a mixer and oscillator to feed into it.

And of course, many would add a converter to an existing AM broadcast radio. Sacrifice one radio to build a converter for another. Then you get double conversion, which would be a good thing given the common 455KHz IF for most AM broadcast radios. For best results, use a car radio for the radio, since they often have better selectivity and of course are well shielded compared to portable AM radios with their loopstick antennas. Need a BFO? Those can be tossed together easily with a transistor off some scrap board, and an IF transformer from a scrap radio (and I seem to recall some using ceramic filters as the frequency determining element in a BFO, and if those work, they are easily available out of scrap radios, compared to ceramic resonators).

ICs may offer better performance. Since transistors in an IC are cheap, they may be more likely to use a balanced mixer. Grab an IC out of a radio, and you've got your mixer (and you have a choice of the mixer from the AM or the mixer from the FM section). Some have put together SSB receivers out of narrow-band FM receiver ICs (they simply ignore the FM detector), and someone used merely the mixer out of a more complicated receiver IC for a direct conversion receiver. A lot of FM broadcast radios use IF strip ICs that don't allow for separate use of the IF amplifiers from the limiters, but I've stripped at least one car radio that offered up an MC1350 IF amplifier. For that matter, use the FM IF strip as a quasi-synchronous detector for AM, or if it's of the right design, feed a BFO into the limiter input and you've got your product detector.

Find a CB set, and you get better IF selectivity, and many will be double conversion. Retune the front end, and replace the synthesizer with a tuneable oscillator. Get really lucky, and the garage sale will offer up an SSB CB set, for even narrower selectivity and of course CW/SSB reception with no mods.

Circa 1942, you'd have far more trouble getting parts. Oh, I

suppose there were more local electronic stores, but there was
hardly any consumer electronic equipment. Nowadays it's really really
common. And that supplies so many useful parts.

  Michael VE2BVW

From 2364724808713019853
X-Google-Thread: fc2a5,e9be391d890cd9bc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news2.volia.net!newsfeed01.sul.t-online.de!t-online.de!news.germany.com!feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How hard for a spy to receive 6855 or 8010 kHz?
Message-ID: <3eqhp25stems6o02b2hblrljo6i3vhj1qb@4ax.com>
References: <U4KdnUv85tC57AjYnZ2dnUVZ_uiknZ2d@comcast.com>
<12pb3bt4abitda5@corp.supernews.com> <ena0cb$1t0$1@theodyn.ncf.ca>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 33
Date: Mon, 01 Jan 2007 14:17:01 +0200
NNTP-Posting-Host: 195.197.6.66
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1167653692 195.197.6.66 (Mon, 01 Jan 2007 14:14:52 EET)
NNTP-Posting-Date: Mon, 01 Jan 2007 14:14:52 EET
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:8509

On 1 Jan 2007 03:49:31 GMT, et472@FreeNet.Carleton.CA (Michael Black)
wrote:

>
>Thirty years ago, magazines were full of simple superhets based
>on standard AM radios. Some would rework the front end
>circuitry to tune a shortwave band, and the fact that ICs are
>used rather than transistors isn't likely to make that really difficult.
>I can remember in 1971 when RCA introduced the CA3088 AM radio IC,
>and QST ran an article pointing out how it could be used. Obviously
>not the best choice, but an IC instead of transistors isn't likely to
>make a worse receiver. The limitations would come from image rejection
>and lousy selectivity (and maybe lack of IF gain), and those were
>all there with transistor based radios.
>
>Others would strip off the front end tuned circuits, and simply use
>the AM broadcast receiver as a 455KHz IF, building a mixer and oscillator
>to feed into it.

Using a standard IF is a bad idea if you are a spy, since the local oscillator is going to be at a standard offset of known number stations.

According to the "Spycatcher" book, MI5 used local oscillator leakage to track down spies already in the 1950's. Thus, if standard IF is used, at least shield the oscillator very well and use some RF stages to isolate the antenna from the local oscillator.

The police in some countries use the local oscillator radiation to detect illegal speed trap radar detectors.

Paul OH3LWR

```
From -583482133344060762
X-Google-Thread: fc2a5,e9be391d890cd9bc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Subject: Re: How hard for a spy to receive 6855 or 8010 kHz?
From: chuck <nospam@nospam.org>
Date: Mon, 01 Jan 2007 11:06:23 -0500
Message-ID: <1167667661_16059@sp6iad.superfeed.net>
References: <U4KdnUv85tC57AjYnZ2dnUVZ_uiknZ2d@comcast.com>
Lines: 26
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!news-out.spamkiller.net!sp6iad.superfeed.net!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
X-Proxy-User: $$x38rj
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
In-Reply-To: <U4KdnUv85tC57AjYnZ2dnUVZ_uiknZ2d@comcast.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Report:  Please report illegal or inappropriate use to <abuse@newsfeeds.com>.
Forward a copy of ALL headers INCLUDING the body. (DO NOT SEND ATTACHMENTS)
X-Comments2:  IMPORTANT: Newsfeeds.com does not condone,support,nor tolerate spam
or any illegal or copyrighted postings.
X-Comments:  This message was posted through Newsfeeds.com
Organization:  Superfeed.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8510
```

This is the 21st century!

All one needs to do is post a seemingly ordinary message (like this one) in any newsgroup (like one dealing with Disney movies). Use the public library and a pre-arranged name. Bingo! The message appears near instantly all over the world, and in convenient, printer-friendly format.;-)

Even easier on the receiving end. Come on guys!

Chuck

----== Posted via Newsfeeds.Com - Unlimited-Unrestricted-Secure Usenet News==----
http://www.newsfeeds.com The #1 Newsgroup Service in the World! 120,000+ Newsgroups
----= East and West-Coast Server Farms - Total Privacy via Encryption =----

---

```
From -2691567594767772580
X-Google-Thread: fc2a5,e9be391d890cd9bc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!
cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny03.POSTED!0da99462!
not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <U4KdnUv85tC57AjYnZ2dnUVZ_uiknZ2d@comcast.com>
<12pb3bt4abitda5@corp.supernews.com> <ena0cb$1t0$1@theodyn.ncf.ca>
Subject: Re: How hard for a spy to receive 6855 or 8010 kHz?
Lines: 118
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <zVamh.547$Am5.383@trndny03>
Date: Mon, 01 Jan 2007 16:46:23 GMT
NNTP-Posting-Host: 70.16.129.225
X-Complaints-To: abuse@verizon.net
X-Trace: trndny03 1167669983 70.16.129.225 (Mon, 01 Jan 2007 11:46:23 EST)
NNTP-Posting-Date: Mon, 01 Jan 2007 11:46:23 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8511
```

I think using radio broadcasts as a means to communicate information to a global 'spy' network has become passe. Modern spy and terrorist networks increasingly use a method called 'Steganography' to hide messages and data inside picture files or other media files that are easily posted through the internet.
Lot's of free software to do this can be found on the net. Here's a link to a tutorial:

http://elonka.com/stego/StegoLR.htm

Joe
W3JDR

```
"Michael Black" <et472@FreeNet.Carleton.CA> wrote in message
news:ena0cb$1t0$1@theodyn.ncf.ca...
> Dave Platt (dplatt@radagast.org) writes:
>> In article <U4KdnUv85tC57AjYnZ2dnUVZ_uiknZ2d@comcast.com>,
>> Clark Magnuson  <c.magnuson@comcast.net> wrote:
>>
>>>Could a spy modify an AM radio by adding a few capacitors?
>>
>> Possibly, but I doubt that it would work well if you started from a
>> standard US-type AM broadcast-band receiver.  The frequencies that
>> this article speaks of are up in the HF band, roughly 10 times higher
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>> signals.
>>
>> A spy in most Western countries could simply buy an off-the-shelf
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>>
>> Simple but very effective direct-conversion or superheterodyne
>> receivers (capable of receiving CW, SSB, and AM) can be built out of
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>> experience.  Many of the popular QRP receiver designs could be tweaked
>> to receive on these sorts of frequencies with very little difficulty.
>>
>> Now, if somebody had an old "7-transistor" AM radio (circa 1960
>> or so), it would likely be possible to salvage enough parts from it
>> to build a simple direct-conversion shortwave receiver.
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>> highly-integrated IC-based radios.
>>
> First, a "spy" is not going to need to build a radio.  They will be
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> radio experts, unless their job was to accumulate information on
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>
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> suspect it's far easier today than in the past.  At the very least,
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>
> Thirty years ago, magazines were full of simple superhets based
> on standard AM radios.  Some would rework the front end
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> I can remember in 1971 when RCA introduced the CA3088 AM radio IC,
> and QST ran an article pointing out how it could be used.  Obviously
> not the best choice, but an IC instead of transistors isn't likely to
> make a worse receiver.  The limitations would come from image rejection
> and lousy selectivity (and maybe lack of IF gain), and those were
```

> all there with transistor based radios.
>
> Others would strip off the front end tuned circuits, and simply use
> the AM broadcast receiver as a 455KHz IF, building a mixer and oscillator
> to feed into it.
>
> And of course, many would add a converter to an existing AM broadcast
> radio. Sacrifice one radio to build a converter for another. Then
> you get double conversion, which would be a good thing given the
> common 455KHz IF for most AM broadcast radios. For best results, use a
> car
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> are well shielded compared to portable AM radios with their loopstick
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>
> ICs may offer better performance. Since transistors in an IC are
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> A lot of FM broadcast radios use IF strip ICs that don't allow for
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> input and you've got your product detector.
>
> Find a CB set, and you get better IF selectivity, and many will be
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> will offer up an SSB CB set, for even narrower selectivity and of
> course CW/SSB reception with no mods.
>
> Circa 1942, you'd have far more trouble getting parts. Oh, I
> suppose there were more local electronic stores, but there was
> hardly any consumer electronic equipment. Nowadays it's really really
> common. And that supplies so many useful parts.
>
> Michael VE2BVW
>

From 4575805204709803633
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc

X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 01 Jan 2007 10:49:06 -0600
Date: Mon, 01 Jan 2007 16:49:07 +0000
From: charlie <wehatespam@wymsey.co.uk>
User-Agent: Thunderbird 1.5.0.9 (X11/20060911)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: cut out the Bullshit or turn in your license and imporve the
 service SC
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
<mjc8o21aejleg93ihviietqngd6jqa6003@4ax.com>
<458455D4.6070709@coboxincORORATED.com>
<1167361053.909725.206720@k21g2000cwa.googlegroups.com>
<1167364149.514586.39870@k21g2000cwa.googlegroups.com>
<1167366545.563639.106660@s34g2000cwa.googlegroups.com>
In-Reply-To: <1167366545.563639.106660@s34g2000cwa.googlegroups.com>
X-Enigmail-Version: 0.94.1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-ID: <nNmdnQ_X6cIfpgTYnZ2dnUVZ8sKlnZ2d@pipex.net>
Lines: 24
NNTP-Posting-Host: 85.210.146.18
X-Trace: sv3-0Qa8I0Kon5hp4BRqw6U7mAP0D+2Ab1ylj7BZGt4a2+2cBZum+
+emhgQe4QeF6tyjRhwGPD5iWOaFk9U!8MgRqbjqekCe7ubxB8XwYdULMU1YEh4I/
PhjtrAXbsKoMe00LnKH8lYgOUGMS8DUPIJkNgBOvhU+!YR7WaRP9cfIip0JQXRppLHnlww==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8512

art wrote:
<SNIP>
> I think the writing is on the wall for ham radio since they dont provide
> a thing for the country It would be better if home security took over
> the frequency as we all now use the net instead. Have you heard anybody
> on the radio lately if you get my drify
> Att
>

Do you plan to abolish every activity that does not "provide a thing
for the country"? Simply ridiculous! Sounds like Stalin's Russia to me.

As an American your view of amateur radio is, typically, all about
kicking up the dust in your own backyard. American is merely a part
of the world of amateur radio.

Instead of spamming across the various radio newsgroups why don't

you go and bother your congressman with your ill-conceived ideas and
leave the rest of us to enjoy our hobby.

<PLONK>

--
www.wymsey.co.uk

From -7061227757509115643
X-Google-Thread: fc2a5,e9be391d890cd9bc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!sn-xt-sjc-04!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How hard for a spy to receive 6855 or 8010 kHz?
Date: Mon, 01 Jan 2007 18:24:59 -0000
Organization: Home for Obscure Mythical Beings
Message-ID: <12pikfrc4vsv055@corp.supernews.com>
References: <U4KdnUv85tC57AjYnZ2dnUVZ_uiknZ2d@comcast.com>
<12pb3bt4abitda5@corp.supernews.com> <ena0cb$1t0$1@theodyn.ncf.ca>
<3eqhp25stems6o02b2hblrljo6i3vhj1qb@4ax.com>
X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
X-Complaints-To: abuse@supernews.com
Lines: 20
Xref: g2news2.google.com rec.radio.amateur.homebrew:8513

In article <3eqhp25stems6o02b2hblrljo6i3vhj1qb@4ax.com>,
Paul Keinanen <keinanen@sci.fi> wrote:

>According to the "Spycatcher" book, MI5 used local oscillator leakage
>to track down spies already in the 1950's. Thus, if standard IF is
>used, at least shield the oscillator very well and use some RF stages
>to isolate the antenna from the local oscillator.
>
>The police in some countries use the local oscillator radiation to
>detect illegal speed trap radar detectors.

And, some speeders turn the tables, by monitoring for the LO radiation
from police-band radios... assuming that where there's Smokey, there's
radar-fire.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Hosting the Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

```
From -8915364759096176249
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 01 Jan 2007 19:33:28 -0600
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: A moment of silence my friends for a silent key.
From: Mike Coslo <mcoslo@comcast.net>
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
<blbbo25epdssnp6sk1g1ss5sc3dmuc0007@4ax.com>
<SNednTkkkupkAA_YnZ2dnUVZ_rqhnZ2d@deskmedia.com>
<btu7p2p382261d68p90qh0uaqfu40pec8t@4ax.com>
<mIqdnf8NOZevhgnYnZ2dnUVZ_qHinZ2d@bright.net>
<UeCdnYLIR_qDpQnYnZ2dnUVZ_rCsnZ2d@deskmedia.com>
Organization: Your Company
Message-ID: <Xns98ABD1223AA69mcoslocomcastnet@216.196.97.136>
User-Agent: Xnews/5.04.25
Date: Mon, 01 Jan 2007 19:33:28 -0600
Lines: 14
NNTP-Posting-Host: 71.58.71.232
X-Trace: sv3-P6a8BmXkXUW/
2KKSPmAh4fxwiv5NmSFkeN0jiJjv03Z05sRSc4YtJ8QjpnSz7A2EPJKYOhHIa8QWpTI!
Ffouwl5osBG6ScFNMij04DAgg1CHcQ7bzF8eEPGSJkcwHvh4iZoPcIo5LwtCe6HLXHur1OBzOyla!
5VfWVq+wIr7C1w==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8514

"JIM" <cjjimmie@yahoo.com> wrote in
news:UeCdnYLIR_qDpQnYnZ2dnUVZ_rCsnZ2d@deskmedia.com:

>> know what......    =  Aid's  The perfect answer.      OH YES  BILL...
> I........LOVE.....ROCK& ROLL.... And BEAUTIFUL  WOMEN, AND FAST CAR'S
> TOO.....

I like beautiful Cars and fast women myself! ;^)

     Don't let Bill get you spun up - he's just part of the noise floor of
netnews...


     73 de Mike KB3EIA -


From -7738315602492698551
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
```

```
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 01 Jan 2007 19:38:03 -0600
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: cut out the Bullshit or turn in your license and imporve the service
SC
From: Mike Coslo <mcoslo@comcast.net>
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
<mjc8o21aejleg93ihviietqngd6jqa6003@4ax.com>
<458455D4.6070709@coboxincORORATED.com>
<1167361053.909725.206720@k21g2000cwa.googlegroups.com>
<1167364149.514586.39870@k21g2000cwa.googlegroups.com>
<1167366545.563639.106660@s34g2000cwa.googlegroups.com>
<nNmdnQ_X6cIfpgTYnZ2dnUVZ8sKlnZ2d@pipex.net>
Organization: Your Company
Message-ID: <Xns98ABD1E9068E5mcoslocomcastnet@216.196.97.136>
User-Agent: Xnews/5.04.25
Date: Mon, 01 Jan 2007 19:38:03 -0600
Lines: 11
NNTP-Posting-Host: 71.58.71.232
X-Trace: sv3-NYS3gLDfA5GUd5/fcvuuxaXWUTUzJIVd+/3L1U/TsBHbxT4cJdM3HhFQMC/d/
trUgvFUPM7x8xbAVsK!
+IBx+b1tOo3RS3TVQHZZ33BM21H3ZtOPFC3FlG7v3R+ehkYyAR8EebKRkTEby02I0DSQ1r4ArUM/!
d56ZKqggcDJ0jg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8515

charlie <wehatespam@wymsey.co.uk> wrote in
news:nNmdnQ_X6cIfpgTYnZ2dnUVZ8sKlnZ2d@pipex.net:

> As an American your view of amateur radio is, typically, all about
> kicking up the dust in your own backyard. American is merely a part
> of the world of amateur radio.

     Oh dear, another person who absolutely knows what every single
American is all about.

     - 73 de Mike KB3EIA -


From 4092575431341772327
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
```

newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
Message-ID: <458B77FB.20409@invalid.invalid>
From: Doug Smith W9WI <w9wi@invalid.invalid>
Reply-To: w9wi@invalid.invalid
Organization: Ham Radio W9WI
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.0.1) Gecko/20020830
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 22
Date: Fri, 22 Dec 2006 06:15:24 GMT
NNTP-Posting-Host: 4.152.156.200
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1166768124 4.152.156.200 (Thu, 21 Dec 2006 22:15:24 PST)
NNTP-Posting-Date: Thu, 21 Dec 2006 22:15:24 PST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8365

julian814 wrote:
> All right, I'm hoping someone here can clue me into finding the one(s)
> I want. What I need is a handbook that has schematics for tube
> equipment circa the 1960's. I have a boxful of tubes from television
> sets from that era, and I was hoping I could put together a receiver
> from some of them. I do have the first volume of Impoverished Radio
> Experimenter, which talks about using "newer" tubes in older
> schematics, but the scant few Lindsay talks about aren't among the
> tubes in my box.

Not sure whether this is what you're looking for but I found two sites
that seem to contain most of the tube data that was in the ARRL Handbook:

http://www.nj7p.org/Tube4.php
http://tdsl.duncanamps.com/tubesearch.php

--
Doug Smith W9WI
Pleasant View (Nashville), TN EM66
http://www.w9wi.com

From -5765304714965008521
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a3g2000cwd.googlegroups.com!not-for-
mail
From: hot-ham-and-cheese@hotmail.com
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: A Christmas Present Everyone Can Afford
Date: 22 Dec 2006 03:52:39 -0800
Organization: http://groups.google.com
Lines: 17
Message-ID: <1166788359.491358.56780@a3g2000cwd.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
   <72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
NNTP-Posting-Host: 4.224.228.97
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166788365 32229 127.0.0.1 (22 Dec 2006 11:52:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Dec 2006 11:52:45 +0000 (UTC)
In-Reply-To: <72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a3g2000cwd.googlegroups.com; posting-host=4.224.228.97;
   posting-account=mMyuWQ0AAAANPpX1wK2NRuuQfAjm_kIo
Xref: g2news2.google.com rec.radio.amateur.policy:59949
rec.radio.amateur.misc:27297 rec.radio.cb:23841 rec.radio.amateur.homebrew:8366
```

Bill Turner wrote:

> Please folks, do not reply to these off topic posts.
>
> If these idiots never get any replies, they will eventually give up
> and go away.
>
> Thanks,
>
> Bill, W6WRT

Bill, I respectfully disagree. Your strategy works with normal people. Robesin isn't normal, and he'll only go away when his ISP is shut off. He's the originator of the infamous "MARS >>>IS<<< Amareur Radio" declaration and the excrement eating thread. At the moment, he's got himself wrapped up in the flag, so he's untouchable even if off-topic.

```
From 5576856165152603280
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
```

```
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!
newshosting.com!208.49.83.146.MISMATCH!uns-out.usenetserver.com!
news.usenetserver.com!pc03.usenetserver.com!DIALUPUSA.NET!not-for-mail
From: "Dr.Ace" <Ace@WH2T.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
Subject: Re: A Christmas Present Everyone Can Afford
Date: Fri, 22 Dec 2006 07:52:33 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <53ca8$458bd4d7$4fc6777$11345@DIALUPUSA.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 18
X-Trace: 53ca8458bd4d7a159c2d211345
Xref: g2news2.google.com rec.radio.amateur.policy:59953
rec.radio.amateur.misc:27298 rec.radio.cb:23842 rec.radio.amateur.homebrew:8367


"Bill Turner" <noway@nowhow.com> wrote in message
news:72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com...
> Please folks, do not reply to these off topic posts.
>
> If these idiots never get any replies, they will eventually give up
> and go away.
>
> Thanks,
>
> Bill, W6WRT

Non illigitamus carborundum
 Merry Christmas
    Ace - WH2T




From 4580257866419774932
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
```

```
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!80g2000cwy.googlegroups.com!not-for-
mail
From: "K4YZ" <stevenrobeson@yahoo.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Two-Faced Brain (N0IMD) Strikes Again
Date: 22 Dec 2006 04:59:44 -0800
Organization: http://groups.google.com
Lines: 61
Message-ID: <1166792384.673664.20000@80g2000cwy.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
   <72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
   <1166788359.491358.56780@a3g2000cwd.googlegroups.com>
NNTP-Posting-Host: 64.12.116.10
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166792391 9530 127.0.0.1 (22 Dec 2006 12:59:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Dec 2006 12:59:51 +0000 (UTC)
In-Reply-To: <1166788359.491358.56780@a3g2000cwd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 Turboweb
[mtc-tc021 8.4.1], HTTP/1.1 cache-mtc-aa06.proxy.aol.com[400C740A] (Traffic-
Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: 80g2000cwy.googlegroups.com; posting-host=64.12.116.10;
   posting-account=McIgIg0AAADr7OL96Ze4JWCAYvKOOVwu
Xref: g2news2.google.com rec.radio.amateur.policy:59954
rec.radio.amateur.misc:27299 rec.radio.cb:23844 rec.radio.amateur.homebrew:8368
```

hot-ham-and-cheese@hotmail.com wrote (N0IMD):
> Bill Turner wrote:
> > Please folks, do not reply to these off topic posts.
> >
> > If these idiots never get any replies, they will eventually give up
> > and go away.
> >
> > Thanks,
> >
> > Bill, W6WRT
>
> Bill, I respectfully disagree. Your strategy works with normal people.
> Robesin isn't normal, and he'll only go away when his ISP is shut off.
> He's the originator of the infamous "MARS >>>IS<<< Amareur Radio"
> declaration and the excrement eating thread. At the moment, he's got
> himself wrapped up in the flag, so he's untouchable even if off-topic.

Bill...Welcome to the "logic" of Brian P Burke, N0IMD, hiding behind one of his "anonymous" screen names as "hot--ham-and-cheese"

Brian has participated, along with Leonard H Anderson (unlicensed) and Mark Morgan (KB9RQZ) in an anti-Amateur Radio tirades and has fallen flat on his face in one prognostication about Amateur Radio after another. He doesn't like it that I've been right.

One of Brain's favorite tactics is to take comments out-of-context and then try to represent them as the entire "gist" of the comments.

My "MARS >>>IS<<< AMATEUR RADIO" comment refered to the fact that the MARS program was staffed almost entirely by Amateur Radio licensees and was in the very spirit of what it means to be an Amateur Radio licensee...He doesn't want to repeat THAT part since it wouldn't serve his purposes. (to try and embarrass me)

He also claims that I am repsonsible for the "excrement eating" thread. That's a blatant lie. His "friend", Mark Morgan, KB9RQZ, is SOLELY RESPONSIBLE for the authorship of those subject lines and use of profanity. You won't see my subject lines repeating it..

Brain, of course, has NEVER owned up to any one of his own misrepresentatiuons of Amateur Radio. He has made ludicrous claims that have failed to meet any statndard of proof or substance, including any one of several claims of having been a DX station, misrepresentations about MARS, RACES, ARES, and other poorly conceptualized opinions that have fallen by the wayside as failing the test of evidence.

Everyone's entitled to their opinions. Brain's opinions of me are obviously low as he, despite having allegedly been a veteran himself, are anti-veteran and anti-volunteer. I've rubbed his nose in one failed opinion after another.

So...There's my $0.02. Do with it as you will, but I'd take a BIG grain of salt with any traffic coming from "hot-ham-and-cheese", as you are welcome to do with mine.

73

Steve, K4YZ

From 1520075941554805964
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!48g2000cwx.googlegroups.com!not-for-mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: Older ARRL Handbooks
Date: 22 Dec 2006 05:15:21 -0800
Organization: http://groups.google.com
Lines: 25
Message-ID: <1166793321.369417.55040@48g2000cwx.googlegroups.com>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
<emeisu$s0p$1@theodyn.ncf.ca>
<oa2dnb8k87NIQRfYnZ2dnUVZ8tSdnZ2d@pipex.net>
NNTP-Posting-Host: 66.19.114.110
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166793327 12082 127.0.0.1 (22 Dec 2006 13:15:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Dec 2006 13:15:27 +0000 (UTC)
In-Reply-To: <oa2dnb8k87NIQRfYnZ2dnUVZ8tSdnZ2d@pipex.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98; DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 48g2000cwx.googlegroups.com; posting-host=66.19.114.110;
posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:8369

Highland Ham wrote:

> Being in series means they would all be used with the same filament current which can be easily implemented with a circuit employing a 78xx device in constant current mode (obviously in a DC environment)
>
> Frank   KN6WH / GM0CSZ

Andy adds:

That's true as long as the current requirements were the same. For instance, putting a 12V/1amp filament in series with a 12 V/200ma filament will not do well on 24 volts....   Just like putting a 100 watt and a 7 watt light bulb in series across 220 volts....., (guess which one will be the brightest, and for how long :>)))) ??   )

The currents were matched in the 5 tube AC/DC radios, but generally you have to check the filament current rating as well as the filament voltage rating in order to do this...... It ain't rocket surgery, but you can't put tube filaments in series indiscriminately.

Andy W4OAH

From 5751423636519940984
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7

```
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-
mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Steve spends his vacation time to type lies, steve switch to captial one
Date: Fri, 22 Dec 2006 08:17:49 -0500
Message-ID: <ddmno2d4b1ad9t7mp7c7irhqd3csjag8um@4ax.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
<1166788359.491358.56780@a3g2000cwd.googlegroups.com>
<1166792384.673664.20000@80g2000cwy.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 76
NNTP-Posting-Date: 22 Dec 2006 12:23:38 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:59964
rec.radio.amateur.misc:27300 rec.radio.cb:23847 rec.radio.amateur.homebrew:8370

On 22 Dec 2006 04:59:44 -0800, "K4YZ" <stevenrobeson@yahoo.com> wrote:

>
>hot-ham-and-cheese@hotmail.com wrote (N0IMD):
>> Bill Turner wrote:
>> > Please folks, do not reply to these off topic posts.
>> >
>> > If these idiots never get any replies, they will eventually give up
>> > and go away.
>> >
>> > Thanks,
>> >
>> > Bill, W6WRT
>>
>> Bill, I respectfully disagree.  Your strategy works with normal people.
>>  Robesin isn't normal, and he'll only go away when his ISP is shut off.
>>  He's the originator of the infamous "MARS >>>IS<<< Amareur Radio"
>> declaration and the excrement eating thread.  At the moment, he's got
>> himself wrapped up in the flag, so he's untouchable even if off-topic.
>
>    Bill...Welcome to the "logic" of Brian P Burke, N0IMD, hiding
>behind one of his "anonymous" screen names as "hot--ham-and-cheese"

hiding how does he hide
>
```

>   Brian has participated, along with Leonard H Anderson (unlicensed)
>and Mark Morgan (KB9RQZ) in an anti-Amateur Radio tirades ..

no steve not ant ARS triades but anti you triades

>..and has
>fallen flat on his face in one prognostication about Amateur Radio
>after another. He doesn't like it that I've been right.

you aree right (and a legend) in your own demetented mind
>
>   One of Brain's favorite tactics is to take comments out-of-context
>and then try to represent them as the entire "gist" of the comments.
>
>   My "MARS >>>IS<<< AMATEUR RADIO".....
it was a lie when you first typed it reamins a lie everytime you
repeat it

>
>   He also claims that I am repsonsible for the "excrement eating"
>thread.

becuase you are
> That's a blatant lie.
simple truth
> His "friend", Mark Morgan, KB9RQZ, is
>SOLELY RESPONSIBLE for the authorship of those subject lines and use of
>profanity.

no I am only respoblie for rubbing your nose in your own shit

> You won't see my subject lines repeating it..

becuase you are afraid to address it and only interested in lying
about
.
>
>   Everyone's entitled to their opinions. Brain's opinions of me are
>obviously low as he, despite having allegedly been a veteran himself,
>are anti-veteran and anti-volunteer. I've rubbed his nose in one
>failed opinion after another.

steve being anti YOU is not anti veteran unless simply speaking ill of
veterans is being anti veteran in which case YOU are antivet

Steve spends his vacation time to type lies, steve switch to captial
one
steve what is in your wallet ? nothing or youd take your vacationtime
for real vacation
http://kb9rqz.blogspot.com/

--

Posted via a free Usenet account from http://www.teranews.com

```
From 2715961556860589567
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!42g2000cwt.googlegroups.com!not-for-mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: 22 Dec 2006 08:21:39 -0800
Organization: http://groups.google.com
Lines: 31
Message-ID: <1166804499.787274.5010@42g2000cwt.googlegroups.com>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
   <emeisu$s0p$1@theodyn.ncf.ca>
NNTP-Posting-Host: 207.69.137.23
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166804505 4720 127.0.0.1 (22 Dec 2006 16:21:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Dec 2006 16:21:45 +0000 (UTC)
In-Reply-To: <emeisu$s0p$1@theodyn.ncf.ca>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 42g2000cwt.googlegroups.com; posting-host=207.69.137.23;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8371
```

Michael Black wrote:

> But if you're just looking for projects, any of the magazines would
> have had plenty, and it's just a matter of picking them from the
> right years so they not only use tubes, but of the right vintage
> tubes.

That's the real trick, isn't it? ;-)

>
> And if you can't find old magazines, you can get QST on CDROM, so
> a volume of that from the right time period would supply plenty of
> projects. Of course, most of the projects in the Handbook came
> from QST to begin with, so it's not like you miss much in the project
> department.

Cool, I'll have to look into it.

>

> Of course, a lot of TV sets were AC/DC, so the filament voltages are
> all over the map since you'd put them in series to run directly off
> the AC line. Unless they start with "6" or "12" the tubes
> may not be so useful.

You're right, the voltages range anywhere from 3 to 33 volts. Two of
them are 6V6 tubes, so I have some hope there. Most of them are
miniatures, and some of them have the numbers missing, which makes
things really interesting.

Ralph

From 8389625943938430022
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f1g2000cwa.googlegroups.com!not-for-mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: 22 Dec 2006 08:27:45 -0800
Organization: http://groups.google.com
Lines: 15
Message-ID: <1166804864.951127.150290@f1g2000cwa.googlegroups.com>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
   <1166757634.034776.33060@f1g2000cwa.googlegroups.com>
NNTP-Posting-Host: 207.69.137.23
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166804870 5409 127.0.0.1 (22 Dec 2006 16:27:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Dec 2006 16:27:50 +0000 (UTC)
In-Reply-To: <1166757634.034776.33060@f1g2000cwa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f1g2000cwa.googlegroups.com; posting-host=207.69.137.23;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8372

sailtamarack@yahoo.ca wrote:
> Here is a site with lots of FREE books dealing with tube design. There
> are old ARRL and Orr radio handbooks as well.
>
> http://www.pmillett.com/tecnical_books_online.htm
>
> The files are huge so you better have a high-speed (not dial-up)
> internet connection.

Thanks, but I have two problems - I'm stuck using dialup, and most of
these books seem over my head. Interesting, nonetheless.

Ralph

```
From 7585961187205313841
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i12g2000cwa.googlegroups.com!not-for-
mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: 22 Dec 2006 08:29:45 -0800
Organization: http://groups.google.com
Lines: 25
Message-ID: <1166804985.383239.94280@i12g2000cwa.googlegroups.com>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
   <458B77FB.20409@invalid.invalid>
NNTP-Posting-Host: 207.69.137.23
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166804991 8858 127.0.0.1 (22 Dec 2006 16:29:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Dec 2006 16:29:51 +0000 (UTC)
In-Reply-To: <458B77FB.20409@invalid.invalid>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i12g2000cwa.googlegroups.com; posting-host=207.69.137.23;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8373
```

Doug Smith W9WI wrote:
> julian814 wrote:
> > All right, I'm hoping someone here can clue me into finding the one(s)
> > I want. What I need is a handbook that has schematics for tube
> > equipment circa the 1960's. I have a boxful of tubes from television
> > sets from that era, and I was hoping I could put together a receiver
> > from some of them. I do have the first volume of Impoverished Radio
> > Experimenter, which talks about using "newer" tubes in older
> > schematics, but the scant few Lindsay talks about aren't among the
> > tubes in my box.
>
> Not sure whether this is what you're looking for but I found two sites
> that seem to contain most of the tube data that was in the ARRL Handbook:
>

> http://www.nj7p.org/Tube4.php
> http://tdsl.duncanamps.com/tubesearch.php

Well, these should definitely help me identify which tubes are the most
useful, especially the first link. It's a start. I could use some
schematics, though.

Ralph

From 6785927781911236320
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.kjsl.com!ncf.ca!
FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: 22 Dec 2006 17:06:00 GMT
Organization: The National Capital FreeNet
Lines: 33
Message-ID: <emh39o$pru$1@theodyn.ncf.ca>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
<1166804864.951127.150290@f1g2000cwa.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1166807160 26494 134.117.136.48 (22 Dec 2006 17:06:00 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 22 Dec 2006 17:06:00 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8374

"julian814" (julian814@hotmail.com) writes:
> sailtamarack@yahoo.ca wrote:
>> Here is a site with lots of FREE books dealing with tube design. There
>> are old ARRL and Orr radio handbooks as well.
>>
>> http://www.pmillett.com/tecnical_books_online.htm
>>
>> The files are huge so you better have a high-speed (not dial-up)
>> internet connection.
>
> Thanks, but I have two problems - I'm stuck using dialup, and most of
> these books seem over my head. Interesting, nonetheless.
>
Unless you pay by the hour, it's doable with dialup. Do it late at
night so there's no disturbances, and hopefully less traffic. Be
selective, figuring out what you might find useful before downloading.

I have dialup, and I grabbed some of those books last year, using
this same method. It took time, but if you plan it right, it doesn't

get in the way. Just don't plan to be able to do much else at the same time as the download.

Unfortunately, while I did record the times it took to download those books I did download, I have no idea where I put that list.

Of those books, the 15th edition of THe Radio Handbook is likely the best choice, since it's the most recent of the handbooks they have there. Most of the books are more text books, and the 1941 ARRL Handbook is likely going to use older tubes than you have, same with the 1940 Radio Handbook.

Michael VE2BVW

From -8438075495918684217
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!novia!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: "RST Engineering" <jim@rstengineering.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com> <emeisu$s0p$1@theodyn.ncf.ca> <1166804499.787274.5010@42g2000cwt.googlegroups.com>
Subject: Re: Older ARRL Handbooks
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <0QTih.7$4n6.69701@news.sisna.com>
Date: Fri, 22 Dec 2006 08:35:52 -0800
NNTP-Posting-Host: 70.41.242.222
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1166805372 70.41.242.222 (Fri, 22 Dec 2006 09:36:12 MST)
NNTP-Posting-Date: Fri, 22 Dec 2006 09:36:12 MST
Organization: Internet News Service
X-Received-Date: Fri, 22 Dec 2006 09:36:12 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8375

6V6 was the quintessential beam power audio output tube of the 1940s through the 1960s. You can generally "read" the missing numbers if there is anything left of the imprint by gently rubbing the tube on your hair. THe oil from your hair will stick to what is left of the printing and make it readable for a short time. You might take a permanent marker if and when you finally read the number and mark the tube.

As has been alluded to in several posts, you are not limited to the exact tube that the original project had in it. For example, the 6U8 was the VHF/UHF RF oscillator/mixer of choice in thousands of designs. However, a 6J6 oscillator with a 6BE6 mixer will work every bit as good if you aren't fussy about VHF reception. There are dozens of tricks you can play with mix & match tube lineups, some better than others.

Jim

> You're right, the voltages range anywhere from 3 to 33 volts. Two of
> them are 6V6 tubes, so I have some hope there. Most of them are
> miniatures, and some of them have the numbers missing, which makes
> things really interesting.

From 1558411485424694999
X-Google-Thread: 10c2ee,bb046759021f47a
X-Google-Thread: fc8b1,bb046759021f47a
X-Google-Thread: fc2a5,bb046759021f47a
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news.glorb.com!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: "William Noble" <nobody@nowhere.con>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
References: <4nIih.25832$Rj.18210@newsfe19.lga>
Subject: Re: Flat mica capacitors
Date: Fri, 22 Dec 2006 09:51:09 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Lines: 19
Message-ID: <458c0e4f$0$15536$88260bb3@free.teranews.com>
NNTP-Posting-Date: 22 Dec 2006 16:56:47 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.antiques.radio+phono:41621
rec.radio.amateur.boatanchors:6830 rec.radio.amateur.homebrew:8376

do you want the flat mica caps that are "bare" or the ones covered with dark brown plastic with the little dots on them?

"KC0EH" <cvest@cox.net> wrote in message
news:4nIih.25832$Rj.18210@newsfe19.lga...
>I am in need of some capacitors (600 vdc) for a homebrew 20's vintage
>project and am looking for period correct parts. If you have some to sell
>or know of a source , please let me know the price.
>

> (2) .002
> (2) .005
> (1) .00025
>
> Thanks ,
>
> Charlie
>

--
Posted via a free Usenet account from http://www.teranews.com

From 252735740781255163
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
Message-ID: <458C1F7F.4060505@invalid.invalid>
From: Doug Smith W9WI <w9wi@invalid.invalid>
Reply-To: w9wi@invalid.invalid
Organization: Ham Radio W9WI
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.0.1) Gecko/20020830
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
<emeisu$s0p$1@theodyn.ncf.ca> <1166804499.787274.5010@42g2000cwt.googlegroups.com>
<0QTih.7$4n6.69701@news.sisna.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 17
Date: Fri, 22 Dec 2006 18:10:08 GMT
NNTP-Posting-Host: 4.154.47.192
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1166811008 4.154.47.192 (Fri, 22 Dec
2006 10:10:08 PST)
NNTP-Posting-Date: Fri, 22 Dec 2006 10:10:08 PST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8377

RST Engineering wrote:
> 6V6 was the quintessential beam power audio output tube of the 1940s through
> the 1960s. You can generally "read" the missing numbers if there is
> anything left of the imprint by gently rubbing the tube on your hair. THe
> oil from your hair will stick to what is left of the printing and make it
> readable for a short time. You might take a permanent marker if and when
> you finally read the number and mark the tube.

Another thing that has worked for me is to put the tube in the freezer for a few hours. Frost forms in a different pattern around where the number was than on the rest of the envelope. Sometimes.

--
Doug Smith W9WI
Pleasant View (Nashville), TN EM66
http://www.w9wi.com

```
From -7454267860924459055
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!48g2000cwx.googlegroups.com!not-for-
mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: 22 Dec 2006 11:00:54 -0800
Organization: http://groups.google.com
Lines: 39
Message-ID: <1166814054.863464.113760@48g2000cwx.googlegroups.com>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
   <1166804864.951127.150290@f1g2000cwa.googlegroups.com>
   <emh39o$pru$1@theodyn.ncf.ca>
NNTP-Posting-Host: 207.69.137.200
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166814061 27463 127.0.0.1 (22 Dec 2006 19:01:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Dec 2006 19:01:01 +0000 (UTC)
In-Reply-To: <emh39o$pru$1@theodyn.ncf.ca>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 48g2000cwx.googlegroups.com; posting-host=207.69.137.200;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8378
```

Michael Black wrote:
> "julian814" (julian814@hotmail.com) writes:
> > sailtamarack@yahoo.ca wrote:
> >> Here is a site with lots of FREE books dealing with tube design. There
> >> are old ARRL and Orr radio handbooks as well.
> >>
> >> http://www.pmillett.com/tecnical_books_online.htm
> >>
> >> The files are huge so you better have a high-speed (not dial-up)

```
> >> internet connection.
> >
> > Thanks, but I have two problems - I'm stuck using dialup, and most of
> > these books seem over my head. Interesting, nonetheless.
> >
> Unless you pay by the hour, it's doable with dialup.  Do it late at
> night so there's no disturbances, and hopefully less traffic.  Be
> selective, figuring out what you might find useful before downloading.
>
> I have dialup, and I grabbed some of those books last year, using
> this same method.  It took time, but if you plan it right, it doesn't
> get in the way.  Just don't plan to be able to do much else at the
> same time as the download.
>
> Unfortunately, while I did record the times it took to download those
> books I did download, I have no idea where I put that list.
>
> Of those books, the 15th edition of THe Radio Handbook is likely
> the best choice, since it's the most recent of the handbooks they
> have there.  Most of the books are more text books, and the 1941 ARRL
> Handbook is likely going to use older tubes than you have, same with
> the 1940 Radio Handbook.
```

Thanks, I'll give it a go. I work from 4 pm to midnight weekdays, so I think I'll try this again tonight after work.

Ralph

```
From 5250485352697398394
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a3g2000cwd.googlegroups.com!not-for-
mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: 22 Dec 2006 11:05:34 -0800
Organization: http://groups.google.com
Lines: 25
Message-ID: <1166814334.369586.93560@a3g2000cwd.googlegroups.com>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
   <emeisu$s0p$1@theodyn.ncf.ca>
   <1166804499.787274.5010@42g2000cwt.googlegroups.com>
   <0QTih.7$4n6.69701@news.sisna.com>
NNTP-Posting-Host: 207.69.137.200
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166814340 32659 127.0.0.1 (22 Dec 2006 19:05:40 GMT)
X-Complaints-To: groups-abuse@google.com
```

NNTP-Posting-Date: Fri, 22 Dec 2006 19:05:40 +0000 (UTC)
In-Reply-To: <0QTih.7$4n6.69701@news.sisna.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a3g2000cwd.googlegroups.com; posting-host=207.69.137.200;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8379

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Thanks, I'll give it a try.

> As has been alluded to in several posts, you are not limited to the exact
> tube that the original project had in it. For example, the 6U8 was the
> VHF/UHF RF oscillator/mixer of choice in thousands of designs. However, a
> 6J6 oscillator with a 6BE6 mixer will work every bit as good if you aren't
> fussy about VHF reception. There are dozens of tricks you can play with mix
> & match tube lineups, some better than others.

TJ Linday says as much in the Impoverished Radio Experimenter. Thing
is, he was scant on details. I wrote them about my project, and I'm
hoping they'll have some ideas.

Ralph

From 7282171826748674578
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news.mv.net!
newsreader.wustl.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: 22 Dec 2006 13:30:38 -0600
Organization: Kansas State University
Lines: 14
Message-ID: <emhbou$ie2@unix1.cc.ksu.edu>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
<emeisu$s0p$1@theodyn.ncf.ca> <1166804499.787274.5010@42g2000cwt.googlegroups.com>
<0QTih.7$4n6.69701@news.sisna.com> <458C1F7F.4060505@invalid.invalid>

```
NNTP-Posting-Host: unix1.cc.ksu.edu
X-Trace: cnn.cns.ksu.edu 1166815842 6891 129.130.12.3 (22 Dec 2006 19:30:42 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Fri, 22 Dec 2006 19:30:42 +0000 (UTC)
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8380
```

>Another thing that has worked for me is to put the tube in the freezer
>for a few hours. Frost forms in a different pattern around where the
>number was than on the rest of the envelope. Sometimes.

And after you take it out of the cooler, "huff" on it once or twice (just as people "huff" on their eyeglasses before wiping them with a cloth) and the moisture from your breath may outline the tube identification.

--
--Myron A. Calhoun.
Five boxes preserve our freedoms: soap, ballot, witness, jury, and cartridge
NRA Life Member and Rifle, Pistol, & Home Firearm Safety Certified Instructor
Certified Instructor for the Kansas Concealed-Carry Handgun license

```
From -2898956869053556337
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!204.153.247.121.MISMATCH!indigo.octanews.net!news-
out.octanews.net!mauve.octanews.net!198.186.190.95.MISMATCH!news-out.readnews.com!
postnews3.readnews.com!nr3.newsreader.com.POSTED!not-for-mail
Subject: K4YZ TARD
From: Steveo <moparholic@hotmail.com>
Organization: http://NewsReader.Com/ 30 GB Month
Message-ID: <20061222162443.943$CS_-_@newsreader.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
<1166788359.491358.56780@a3g2000cwd.googlegroups.com>
<1166792384.673664.20000@80g2000cwy.googlegroups.com>
X-NRC-Trace: NewsReader.Com 2e@JruRADYOMw5SbvJ900FpOKgfLwI2+,e=gXk_Awli8ke,lTv
Date: 22 Dec 2006 21:18:26 GMT
Lines: 8
NNTP-Posting-Host: 68128b3d.nr3.newsreader.com
X-Trace:
DXC=NF1;JjBh8DZhhfSi4:66B_OA8_@f\K_iR[1geCV>QNoZ2g@0c_XM:nSNd7biGRhQTWabI[<ZWSB4Q4
0l:2Gg^A2W
```

```
X-Complaints-To: abuse@newsreader.com
Xref: g2news2.google.com rec.radio.amateur.policy:59982
rec.radio.amateur.misc:27302 rec.radio.cb:23863 rec.radio.amateur.homebrew:8381
```

"K4YZ" <stevenrobeson@yahoo.com> wrote:
>>
 Steve, K4YZ//SLAP

Why don't you and your homo ham buddy owner get a fucking room already,
Steve? Or at least keep your lame breeding ritual out of rrcb.

Thanks.

```
From -7886749901561410212
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!48g2000cwx.googlegroups.com!not-for-
mail
From: "an old friend" <kb9rqz@yahoo.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: K4YZ TARD
Date: 22 Dec 2006 13:53:34 -0800
Organization: http://groups.google.com
Lines: 14
Message-ID: <1166824414.400402.57350@48g2000cwx.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
   <72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
   <1166788359.491358.56780@a3g2000cwd.googlegroups.com>
   <1166792384.673664.20000@80g2000cwy.googlegroups.com>
   <20061222162443.943$CS_-_@newsreader.com>
NNTP-Posting-Host: 66.82.9.58
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166824421 19361 127.0.0.1 (22 Dec 2006 21:53:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Dec 2006 21:53:41 +0000 (UTC)
In-Reply-To: <20061222162443.943$CS_-_@newsreader.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 48g2000cwx.googlegroups.com; posting-host=66.82.9.58;
   posting-account=mGJHFw0AAABhg_iImBOts3VB5ouUQlvB
Xref: g2news2.google.com rec.radio.amateur.policy:59983
rec.radio.amateur.misc:27303 rec.radio.cb:23866 rec.radio.amateur.homebrew:8382
```

```
Steveo wrote:
> "K4YZ" <stevenrobeson@yahoo.com> wrote:
> >>
>  Steve, K4YZ//SLAP
>
> Why don't you and your homo ham buddy owner get a fucking room already,
> Steve? Or at least keep your lame breeding ritual out of rrcb.

The prob;lem is K4YZ's sexaul obession with ME man he is obessed with
being the sex police
>
> Thanks.




From -1255423403069053117
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!feed.cgocable.net!
news.sprintnetops.net!news.cse.sc.edu!ken-transit.news.telstra.net!lon-
in.news.telstra.net!news.telstra.net!news-server.bigpond.net.au!53ab2750!not-for-
mail
From: "HH" <harryharms@hotmail.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
<53ca8$458bd4d7$4fc6777$11345@DIALUPUSA.NET>
Subject: Re: A Christmas Present Everyone Can Afford
Lines: 29
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <PNZih.11922$HU.7200@news-server.bigpond.net.au>
Date: Fri, 22 Dec 2006 23:23:27 GMT
NNTP-Posting-Host: 58.167.57.93
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1166829807 58.167.57.93 (Sat, 23 Dec 2006
10:23:27 EST)
NNTP-Posting-Date: Sat, 23 Dec 2006 10:23:27 EST
Organization: BigPond Internet Services
Xref: g2news2.google.com rec.radio.amateur.policy:59995
rec.radio.amateur.misc:27304 rec.radio.cb:23873 rec.radio.amateur.homebrew:8383

You can add "decendo" to the phrase!
```

```
"Non illegitimus carborundum decendo"!

Merry Christmas
VK2KCE

"Dr.Ace" <Ace@WH2T.com> wrote in message
news:53ca8$458bd4d7$4fc6777$11345@DIALUPUSA.NET...
:
: "Bill Turner" <noway@nowhow.com> wrote in message
: news:72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com...
: > Please folks, do not reply to these off topic posts.
: >
: > If these idiots never get any replies, they will eventually give up
: > and go away.
: >
: > Thanks,
: >
: > Bill, W6WRT
:
: Non illigitamus carborundum
: Merry Christmas
:    Ace - WH2T
:
:
:




From 6320412719852007099
X-Google-Thread: 10c2ee,bb046759021f47a
X-Google-Thread: fc8b1,bb046759021f47a
X-Google-Thread: fc2a5,bb046759021f47a
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe04.lga.POSTED!53ab2750!not-for-mail
From: sdeyoreo@hotmail.com
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: Flat mica capacitors
Message-ID: <ua9po21to8lfdai48tib1slvad9u0amfe2@4ax.com>
References: <4nIih.25832$Rj.18210@newsfe19.lga>
<458c0e4f$0$15536$88260bb3@free.teranews.com>
X-Newsreader: Forte Free Agent 2.0/32.640
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 23
X-Trace:
noffecneefnkbhgfkannfilpcpbbolnmmdljjjghhmbfejlehahnihhbkekgikcenijkhgnhggbcgcdgff
```

```
elkchjofdjnopjankbcoajbmhacoifpadgfnlceihkdhoeenfnojecgjgcfcij
NNTP-Posting-Date: Fri, 22 Dec 2006 20:42:01 MST
Date: Fri, 22 Dec 2006 22:42:07 -0500
Xref: g2news2.google.com rec.antiques.radio+phono:41657
rec.radio.amateur.boatanchors:6837 rec.radio.amateur.homebrew:8384

On Fri, 22 Dec 2006 09:51:09 -0800, "William Noble"
<nobody@nowhere.con> wrote:

>do you want the flat mica caps that are "bare" or the ones covered with dark
>brown plastic with the little dots on them?
Be still my heart, I haven't seen those since I was a kid! I even knew
how to read em.
>
>"KC0EH" <cvest@cox.net> wrote in message
>news:4nIih.25832$Rj.18210@newsfe19.lga...
>>I am in need of some capacitors (600 vdc) for a homebrew 20's vintage
>>project and am looking for period correct parts. If you have some to sell
>>or know of a source , please let me know the price.
>>
>> (2) .002
>> (2) .005
>> (1) .00025
>>
>> Thanks ,
>>
>> Charlie
>>



From 7300800186144309871
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!80g2000cwy.googlegroups.com!not-for-
mail
From: hot-ham-and-cheese@hotmail.com
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: Tri-Faced Robesin Strikes Out Again
Date: 22 Dec 2006 19:51:43 -0800
Organization: http://groups.google.com
Lines: 150
Message-ID: <1166845903.893439.54470@80g2000cwy.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
   <72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
   <1166788359.491358.56780@a3g2000cwd.googlegroups.com>
   <1166792384.673664.20000@80g2000cwy.googlegroups.com>
```

NNTP-Posting-Host: 4.225.97.16
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166845910 4369 127.0.0.1 (23 Dec 2006 03:51:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 23 Dec 2006 03:51:50 +0000 (UTC)
In-Reply-To: <1166792384.673664.20000@80g2000cwy.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 80g2000cwy.googlegroups.com; posting-host=4.225.97.16;
   posting-account=mMyuWQ0AAAANPpX1wK2NRuuQfAjm_kIo
Xref: g2news2.google.com rec.radio.amateur.policy:60028
rec.radio.amateur.misc:27314 rec.radio.cb:23891 rec.radio.amateur.homebrew:8385

K4YZ wrote:
> hot-ham-and-cheese@hotmail.com wrote (N0IMD):
> > Bill Turner wrote:
> > > Please folks, do not reply to these off topic posts.
> > >
> > > If these idiots never get any replies, they will eventually give up
> > > and go away.
> > >
> > > Thanks,
> > >
> > > Bill, W6WRT
> >
> > Bill, I respectfully disagree. Your strategy works with normal people.
> > Robesin isn't normal, and he'll only go away when his ISP is shut off.
> > He's the originator of the infamous "MARS >>>IS<<< Amareur Radio"
> > declaration and the excrement eating thread. At the moment, he's got
> > himself wrapped up in the flag, so he's untouchable even if off-topic.
>
>   Bill...Welcome to the "logic" of Brian P Burke, N0IMD, hiding
> behind one of his "anonymous" screen names as "hot--ham-and-cheese"

Bill, this is the first Robesin reply in years where he did not forge
the attributes to read "snot-scam-and sleaze..." Robesin is trying to
win you over by playing nice this time. Unfortunately, the rest of us
know his game.

>   Brian has participated, along with Leonard H Anderson (unlicensed)
> and Mark Morgan (KB9RQZ) in an anti-Amateur Radio tirades and has
> fallen flat on his face in one prognostication about Amateur Radio
> after another. He doesn't like it that I've been right.

Robesin is right? When???

Robesin attacks when I reposted an article taken directly from the ARRL
web site quoting an ARRL Vice President >in its entirety< stating that
amateurs have an overblown sense of self-importance.

> One of Brain's favorite tactics is to take comments out-of-context and then try to represent them as the entire "gist" of the comments.

One of Robesin's favorite tactics is to make homosexual inuendo or claims of pedophilia when he encounters someone who disagrees with him.

> My "MARS >>>IS<<< AMATEUR RADIO" comment refered to the fact that the MARS program was staffed almost entirely by Amateur Radio licensees and was in the very spirit of what it means to be an Amateur Radio licensee...

I pointed out that MARS absolutely has non-amateur leadership, non-amateur participants, and an entirely non-amateur mission. Hell, Robesin claims to have been chopped to an NMC MARS slot on Okinawa - as an active duty, non-amateur participant. Yet he continues with his "Sorry Hans, MARS >>>IS<<< Amateur Radio" nonsense. Didn't even know what the MOD was. He tried pulling this stunt before he realized that I had MARS experience.

> He doesn't want to repeat THAT part since it wouldn't serve his purposes. (to try and embarrass me)

Except that I was an actual MARS affiliate and knew what I was talking about. You didn't. Still don't.

> He also claims that I am repsonsible for the "excrement eating" thread. That's a blatant lie. His "friend", Mark Morgan, KB9RQZ, is SOLELY RESPONSIBLE for the authorship of those subject lines and use of profanity. You won't see my subject lines repeating it..

Sorry Robesin, but you are the one who posted the "excrement eating" filth, and keep reposting your quote. Unbelievable, but Google provides.

> Brain, of course, has NEVER owned up to any one of his own misrepresentatiuons of Amateur Radio.

I have opinions but Robesin doesn't allow dissenting opinions. Opinions that differ from his are "LIES."

> He has made ludicrous claims that have failed to meet any statndard of proof or substance, including any one of several claims of having been a DX station,

David Heil/K8MN has me confirmed at least twice. Robesin knows this, therefore Robesin lies.

> misrepresentations about MARS, RACES, ARES, and other poorly conceptualized opinions that have fallen by the wayside as failing the test of evidence.

After it was obvious from one regular on RRAP that his ARES group was unable to fully support an upcoming American Red Cross exercise, Robesin was asked to write a duty schedule for the exercise. The stated requirements were three 3 operators on duty per shift. He shorted the 1st eight hours of the exercise by all three personnel. He claims it was covered, but the supported agency was not supported at all. The subsequent shifts were shorted from one to two operators per shift. Robesin claims that ARES can support all agency needs even when they lack enough volunteers. Amateur Operators can perform Super-Human feats, OR the ARC is just an 8AM - 5PM agency.

>   Everyone's entitled to their opinions.

Not true. Hot-ham is not entitled to an opinion, if Robesin has anything to say about it.

> Brain's opinions of me are
> obviously low as he, despite having allegedly been a veteran himself,
> are anti-veteran and anti-volunteer.

My opinions of Robesin are spot on.

In addition to slinging accusations of homosexual and pedophilia at those who disagree with him, I am now a veteran-hater and a volunteer-hater. Nevermind that I am a veteran and a volunteer.

Robesin has claimed that he can have me picked up on his say so as an LPN with a simple phone call from Tennessee. To another poster on RRAP, he claimed that "People who shoot off their mouths can have their tires slashed, rocks thrown through windows, and wives terrorized," but later clarified that all those bad things would be at someone else's hands.

A well known Amateur Radio store advertising in QST, whose ham daughter was featured in the ad photo, was said to be "selling something" but not amateur equipment.

Robesin, whose father was a Sailor Army Recruiter (I swear thats not a typo), lays claim to seven hostile actions in the USMC, but who's only overseas assignment was Okinawa.

There's more, much more, but if I went on and on and on you'd probably think I was making it up. I'm not. Google provides.

> I've rubbed his nose in one
> failed opinion after another.

Yet it is your excrement on another man's genitals, according to your own original claims and subsequent quotes. Google provides, and you've requoted yourself numerous times.

>   So...There's my $0.02. Do with it as you will, but I'd take a BIG
> grain of salt with any traffic coming from "hot-ham-and-cheese", as you
> are welcome to do with mine.

```
>
> 73
>
> Steve, K4YZ

Your $0.02 isn't worth two cents.  Google provides.



From -8045874499833704814
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.alt.net
From: "Roger" <anon@anon>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: Tri-Faced Robesin Strikes Out Again
Date: Fri, 22 Dec 2006 23:39:56 -0500
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 31
Message-ID: <if1g5.fhf.19.1@news.alt.net>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
<1166788359.491358.56780@a3g2000cwd.googlegroups.com>
<1166792384.673664.20000@80g2000cwy.googlegroups.com>
<1166845903.893439.54470@80g2000cwy.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Xref: g2news2.google.com rec.radio.amateur.policy:60029
rec.radio.amateur.misc:27315 rec.radio.cb:23892 rec.radio.amateur.homebrew:8386


<hot-ham-and-cheese@hotmail.com> wrote in message
news:1166845903.893439.54470@80g2000cwy.googlegroups.com...
>
> K4YZ wrote:
> > hot-ham-and-cheese@hotmail.com wrote (N0IMD):
> > > Bill Turner wrote:
> > > > Please folks, do not reply to these off topic posts.
> > > >
> > > > If these idiots never get any replies, they will eventually give up
> > > > and go away.
> > > >
> > > > Thanks,
> > > >
> > > > Bill, W6WRT
```

> > >
> > > Bill, I respectfully disagree. Your strategy works with normal people.
> > > Robesin isn't normal, and he'll only go away when his ISP is shut off.
> > > He's the originator of the infamous "MARS >>>IS<<< Amareur Radio"
> > > declaration and the excrement eating thread. At the moment, he's got
> > > himself wrapped up in the flag, so he's untouchable even if off-topic.
> >

Of course let us not leave Mark out of the insanity. Mark will continue to
crap upon as many posts as he can, whether he is asked to join or not.

Mark is far from "normal", too. Billy Smith already knows that....

From 3660499407239374298
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
Message-ID: <458CBF06.6010500@invalid.invalid>
From: Doug Smith W9WI <w9wi@invalid.invalid>
Reply-To: w9wi@invalid.invalid
Organization: Ham Radio W9WI
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.0.1) Gecko/20020830
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 24
Date: Sat, 23 Dec 2006 05:30:48 GMT
NNTP-Posting-Host: 4.152.180.60
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1166851848 4.152.180.60 (Fri, 22 Dec 2006 21:30:48 PST)
NNTP-Posting-Date: Fri, 22 Dec 2006 21:30:48 PST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8387

julian814 wrote:
> All right, I'm hoping someone here can clue me into finding the one(s)
> I want. What I need is a handbook that has schematics for tube
> equipment circa the 1960's. I have a boxful of tubes from television
> sets from that era, and I was hoping I could put together a receiver
> from some of them. I do have the first volume of Impoverished Radio
> Experimenter, which talks about using "newer" tubes in older

> schematics, but the scant few Lindsay talks about aren't among the
> tubes in my box.

How complex of a receiver are you looking to build?

There are a PILE of simple tube circuits on
http://www.intio.or.jp/jf10zl/index.html .

Most of them use Japanese tubes (the site is in Japan, after all<g>) but
I would suggest in many cases you can figure out what U.S. tubes are
similar.

--
Doug Smith W9WI
Pleasant View (Nashville), TN EM66
http://www.w9wi.com

```
From 851958977641501900
X-Google-Thread: 10c2ee,bb046759021f47a
X-Google-Thread: fc8b1,bb046759021f47a
X-Google-Thread: fc2a5,bb046759021f47a
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.centurytel.net!
news.centurytel.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 23 Dec 2006 00:55:50 -0600
Date: Sat, 23 Dec 2006 02:00:16 -0500
From: Tom Adkins <nospam@centurytel.net>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: Flat mica capacitors
References: <4nIih.25832$Rj.18210@newsfe19.lga>
<458c0e4f$0$15536$88260bb3@free.teranews.com>
In-Reply-To: <458c0e4f$0$15536$88260bb3@free.teranews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <x9udnc5rRv5rTxHYnZ2dnUVZ_tunnZ2d@centurytel.net>
Lines: 39
NNTP-Posting-Host: 72.160.170.152
X-Trace: sv3-Nw29GsttFGxoSdeQpp37F/
pOvvbXyCRNl8ciSSBjbATDQtID9xZfd91NywAfCbgDFmHshrzCK07DssL!
QiW87oDu7xxzsCi2JVHiaH9OAHdmypfbqhZQo4LLncY2kLOGZvEyIvPGWMpHJxkGJPu8jTTWnXV6!
wHkLXEYJrWqhh5oZujH2tBDSG+Oo8UkyoKq1oA==
X-Complaints-To: abuse@centurytel.net
X-DMCA-Complaints-To: abuse@centurytel.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.antiques.radio+phono:41671
rec.radio.amateur.boatanchors:6839 rec.radio.amateur.homebrew:8388

William Noble wrote:
> do you want the flat mica caps that are "bare" or the ones covered with dark
> brown plastic with the little dots on them?
>
> "KC0EH" <cvest@cox.net> wrote in message
> news:4nIih.25832$Rj.18210@newsfe19.lga...
>> I am in need of some capacitors (600 vdc) for a homebrew 20's vintage
>> project and am looking for period correct parts. If you have some to sell
>> or know of a source , please let me know the price.
>>
>> (2) .002
>> (2) .005
>> (1) .00025
>>
>> Thanks ,
>>
>> Charlie
>>
>
>
>

William,
He's probably looking for the "bare" ones from that era. They look like a flat block of phenolic with contacts riveted to each end.

Playthings of Past has boxes of them, used. (I drooled over many of the chassis that they came from). There may even be some NOS ones available. Many of those caps were punch stamped with the value on the metal ends, sadly many were stamped in ink on the phenolic that faded completely over the years. You might try contacting Gary Schneider (PTOP) to get the sizes you need. Check the website first to see if they are listed.
www.oldradioparts.com.

This is not to be confused with Mark Oppats site, www.oldradioparts.net. Both are very valuable resources for vintage radio parts. Gary has always leaned toward battery set parts, power transformers, and other hard to find OEM items. Mark is, of course, The King of Kontrols,... and capacitors, ...and dials, and... Bookmark both links and you'll have many of your radio parts needs right there at hand.

Best of luck on your project.

```
From 1755579829528821369
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!postnews.google.com!
42g2000cwt.googlegroups.com!not-for-mail
From: "K4YZ" <stevenrobeson@yahoo.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: More Brainless Rantings from N0IMD
Date: 23 Dec 2006 04:51:09 -0800
Organization: http://groups.google.com
Lines: 291
Message-ID: <1166878269.179058.143750@42g2000cwt.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
   <72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
   <1166788359.491358.56780@a3g2000cwd.googlegroups.com>
   <1166792384.673664.20000@80g2000cwy.googlegroups.com>
   <1166845903.893439.54470@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 12.129.88.189
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166878273 25927 127.0.0.1 (23 Dec 2006 12:51:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 23 Dec 2006 12:51:13 +0000 (UTC)
In-Reply-To: <1166845903.893439.54470@80g2000cwy.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 42g2000cwt.googlegroups.com; posting-host=12.129.88.189;
   posting-account=McIgIg0AAADr7OL96Ze4JWCAYvKOOVwu
Xref: g2news2.google.com rec.radio.amateur.policy:60032
rec.radio.amateur.misc:27318 rec.radio.cb:23897 rec.radio.amateur.homebrew:8389


snot-scam-and-sleaze@hotmail.com wrote:
> K4YZ wrote:
> > hot-ham-and-cheese@hotmail.com wrote (N0IMD):
> > > Bill Turner wrote:
> > > > Please folks, do not reply to these off topic posts.
> > > >
> > > > If these idiots never get any replies, they will eventually give up
> > > > and go away.
> > > >
> > > > Thanks,
> > > >
```

> > > > Bill, W6WRT
> > >
> > > Bill, I respectfully disagree. Your strategy works with normal people.
> > > Robesin isn't normal, and he'll only go away when his ISP is shut off.
> > > He's the originator of the infamous "MARS >>>IS<<< Amareur Radio"
> > > declaration and the excrement eating thread. At the moment, he's got
> > > himself wrapped up in the flag, so he's untouchable even if off-topic.
> >
> >   Bill...Welcome to the "logic" of Brian P Burke, N0IMD, hiding
> > behind one of his "anonymous" screen names as "hot--ham-and-cheese"
>
> Bill, this is the first Robesin reply in years where he did not forge
> the attributes to read "snot-scam-and sleaze..."

Not true, Brain...Not true. However you go right on ahead with
your tale of woe.

> Robesin is trying to
> win you over by playing nice this time. Unfortunately, the rest of us
> know his game.

Robeson DOES "play nice"...Unless you blatantly lie to me or get
caught lying about something that you should know better than to lie
about.

For example: Brian P Burke promising to keep certain information
"private" via e-mail, but then running right on back to the NG and
divulging that which he promised to not divulge.

Hence the complete lack of respect for Brian P Burke.

>
> >   Brian has participated, along with Leonard H Anderson (unlicensed)
> > and Mark Morgan (KB9RQZ) in an anti-Amateur Radio tirades and has
> > fallen flat on his face in one prognostication about Amateur Radio
> > after another. He doesn't like it that I've been right.
>
> Robesin is right? When???

Let's start off with YOUR assertions that ARES.RACES, etc couldn't
/ wouldn't respond to any major disaster in any meaningful numbrs or
for a sustained period.

I said you were wrong.

You said several nasty things about "uniforms", "patriotic
bunting", "ARRL sockpuppet", etc [words, by the way, straight out of
the Leonard H Anderson playbook].

Then came a series of hurricaines and tornaos to the south and
southwest. All of them supported at length by ARES and RACES (among
others, of course)

Then came September 11th...Then came Hurricane Katrina...Then came

Hurricaine Rita...Again, all agencies YOU claimed couldn't / wouldn't respond did exactly that.

We can then dig up your "unlicensed devices" rants, among others.

> Robesin attacks when I reposted an article taken directly from the ARRL
> web site quoting an ARRL Vice President >in its entirety< stating that
> amateurs have an overblown sense of self-importance.

And it wasn't true then, it's not true now.

The ARRL vice president's sentiments are NOT shared by the Department of Homeleand Security, the Department of Defense, Salvation Army, The American Red Cross, the Department of State and other agencies.

> >   One of Brain's favorite tactics is to take comments out-of-context
> > and then try to represent them as the entire "gist" of the comments.
>
> One of Robesin's favorite tactics is to make homosexual inuendo or
> claims of pedophilia when he encounters someone who disagrees with him.

Only true when there is such evidence of that sort of behaviour, Brain.

So far it's hit the mark (pradon the pun) with Mark and Toiddie. The jury's out on you, but you cleaned up your act.

> >   My "MARS >>>IS<<< AMATEUR RADIO" comment refered to the fact that
> > the MARS program was staffed almost entirely by Amateur Radio licensees
> > and was in the very spirit of what it means to be an Amateur Radio
> > licensee...
>
> I pointed out that MARS absolutely has non-amateur leadership,
> non-amateur participants, and an entirely non-amateur mission.

Uhn huh.

And over 95% of Amateur Radio >>>IS<<< staffed by licensed Amateur Radio operators.

> Hell,
> Robesin claims to have been chopped to an NMC MARS slot on Okinawa - as
> an active duty, non-amateur participant. Yet he continues with his
> "Sorry Hans, MARS >>>IS<<< Amateur Radio" nonsense. Didn't even know
> what the MOD was. He tried pulling this stunt before he realized that
> I had MARS experience.

Yes, Brain, I know what the MOD is. You've allowed yourself to be hypontized by Lennie's incessant repeating of that claim.

It was wrong then. It's wrong now.

> > He doesn't want to repeat THAT part since it wouldn't serve
> > his purposes. (to try and embarrass me)
>
> Except that I was an actual MARS affiliate and knew what I was talking
> about. You didn't. Still don't.

Brian P Burke uttering yet again more mistruthful statements in a public forum.

> >   He also claims that I am repsonsible for the "excrement eating"
> > thread. That's a blatant lie. His "friend", Mark Morgan, KB9RQZ, is
> > SOLELY RESPONSIBLE for the authorship of those subject lines and use of
> > profanity. You won't see my subject lines repeating it..
>
> Sorry Robesin, but you are the one who posted the "excrement eating"
> filth, and keep reposting your quote. Unbelievable, but Google
> provides.

Sorry, brain, but one again YOU are lying.

The "excrement eating" posts belong to your "buddy", KB9RQZ. And the recent onslaught of re-tasked subject lines with exactly those words are HIS doings...Not mine.

Stop lying, Mr Burke.

> >   Brain, of course, has NEVER owned up to any one of his own
> > misrepresentatiuons of Amateur Radio.
>
> I have opinions but Robesin doesn't allow dissenting opinions.
> Opinions that differ from his are "LIES."

Again with the deceit.

> > He has made ludicrous claims
> > that have failed to meet any statndard of proof or substance, including
> > any one of several claims of having been a DX station,
>
> David Heil/K8MN has me confirmed at least twice. Robesin knows this,
> therefore Robesin lies.

No I don't know this.

I don't have Dave's logs.

However we are STILL awating some evidence of the validity of your claims of having operated legally from Somalia.

> > misrepresentations about MARS, RACES, ARES, and other poorly
> > conceptualized opinions that have fallen by the wayside as failing the
> > test of evidence.
>
> After it was obvious from one regular on RRAP that his ARES group was

> unable to fully support an upcoming American Red Cross exercise, Robesin was asked to write a duty schedule for the exercise. The stated requirements were three 3 operators on duty per shift. He shorted the 1st eight hours of the exercise by all three personnel. He claims it was covered, but the supported agency was not supported at all. The subsequent shifts were shorted from one to two operators per shift. Robesin claims that ARES can support all agency needs even when they lack enough volunteers. Amateur Operators can perform Super-Human feats, OR the ARC is just an 8AM - 5PM agency.

Sigh.

I guess we can only watch Brain continue to make a fool out of himself.

> > Everyone's entitled to their opinions.
>
> Not true. Hot-ham is not entitled to an opinion, if Robesin has anything to say about it.

Sure. Have an opinion.

But when you express it as "fact" and the "facts" don't bear up under the scrutiny of 3rd party reports to the contrary, don't get upset when you get "called" for your errors, Brain.

> > Brain's opinions of me are obviously low as he, despite having allegedly been a veteran himself, are anti-veteran and anti-volunteer.
>
> My opinions of Robesin are spot on.

Uhhhhhh...YOUR spots are usually little yellow rings on the carpet, Brain.

> In addition to slinging accusations of homosexual and pedophilia at those who disagree with him, I am now a veteran-hater and a volunteer-hater. Nevermind that I am a veteran and a volunteer.

You hated them before, Brain...I am sure I am only the focus of your disdain in THIS forum.

You've not had a single constructive, complimentary thing to say about ANY volunteer group save your Scouting troop.

> Robesin has claimed that he can have me picked up on his say so as an LPN with a simple phone call from Tennessee. To another poster on RRAP, he claimed that "People who shoot off their mouths can have their tires slashed, rocks thrown through windows, and wives terrorized," but later clarified that all those bad things would be at someone else's hands.

Bigger sigh.

More of Brian P Burke's misquoting. I cited a news item some years ago where exactly that thing occcured.

Now for having mentioned it, Brain insists that I have made thinly veiled threats of a same nature.

An act of cowardice.

> A well known Amateur Radio store advertising in QST, whose ham daughter
> was featured in the ad photo, was said to be "selling something" but
> not amateur equipment.

More deceit.

Brain...WHY do you lie so readily?

> Robesin, whose father was a Sailor Army Recruiter (I swear thats not a
> typo), lays claim to seven hostile actions in the USMC, but who's only
> overseas assignment was Okinawa.

"Sailor Army Recruiter"...?!?!?

No Brain...let's get the FACTS right. My father served on Active Duty in the Untied States Navy during the Korean Conflict.

He was later an Active Duty recuriter for the US Army Reserve. Yes, Brain, SOME people DO serve in more than one branch of the Armed Forces than one...

And no, Brain, Okinawa was NOT my "only overseas assignment".

> There's more, much more, but if I went on and on and on you'd probably
> think I was making it up. I'm not. Google provides.

Much of what you say is not "made up"...Just quoted out of context or misattributed.

But mostly quoted out of context.

> > I've rubbed his nose in one
> > failed opinion after another.
>
> Yet it is your excrement on another man's genitals, according to your
> own original claims and subsequent quotes. Google provides, and you've
> requoted yourself numerous times.

I guess your English comprehension skills are as incompetent as Morkie's.

That's not what I said. But you go right on ahead pretending it is as long s you think no one else can see it....

```
> >      So...There's my $0.02.  Do with it as you will, but I'd take a BIG
> > grain of salt with any traffic coming from "hot-ham-and-cheese", as you
> > are welcome to do with mine.
>
> Your $0.02 isn't worth two cents.  Google provides.

    Google provides evidence that any "opinions" uttered by you under
any one of your "anonymous" names needs to be taken with a grin of salt
the size of the Rock of Gibralter.

     As usual.....

Steve, K4YZ




From 5573132107407037959
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!80g2000cwy.googlegroups.com!not-for-
mail
From: jimspeer@jimspeer.org
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: 23 Dec 2006 05:38:46 -0800
Organization: http://groups.google.com
Lines: 23
Message-ID: <1166881126.250231.324840@80g2000cwy.googlegroups.com>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 68.118.125.120
Mime-Version: 1.0
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NNTP-Posting-Date: Sat, 23 Dec 2006 13:38:52 +0000 (UTC)
In-Reply-To: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
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Gecko/20061206 Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 80g2000cwy.googlegroups.com; posting-host=68.118.125.120;
   posting-account=Wd37lQ0AAACG_PdeTAZEcrBqevkI65vk
Xref: g2news2.google.com rec.radio.amateur.homebrew:8390

You can download free a long list of archaic technical books, including
a number of ARRL Handbooks, at the following URL:

http://www.pmillett.com/tecnical_books_online.htm


julian814 wrote:
> All right, I'm hoping someone here can clue me into finding the one(s)
```

> I want. What I need is a handbook that has schematics for tube
> equipment circa the 1960's. I have a boxful of tubes from television
> sets from that era, and I was hoping I could put together a receiver
> from some of them. I do have the first volume of Impoverished Radio
> Experimenter, which talks about using "newer" tubes in older
> schematics, but the scant few Lindsay talks about aren't among the
> tubes in my box.
>
> I've found a very good used book search engine, but unless I have a
> better idea of what to look for, It's going to be hit and miss. Any
> help would be greatly appreciated.
>
>
> Ralph

```
From 4979026676674176072
X-Google-Thread: 10bf43,365de4945b7823b7
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f1g2000cwa.googlegroups.com!not-for-
mail
From: hot-ham-and-cheese@hotmail.com
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: More Guy Nurse Rantings
Date: 23 Dec 2006 07:08:24 -0800
Organization: http://groups.google.com
Lines: 448
Message-ID: <1166886504.288228.177350@f1g2000cwa.googlegroups.com>
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1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f1g2000cwa.googlegroups.com; posting-host=4.224.231.206;
```

```
   posting-account=mMyuWQ0AAAANPpX1wK2NRuuQfAjm_kIo
Xref: g2news2.google.com rec.radio.amateur.policy:60033
rec.radio.amateur.misc:27320 rec.radio.cb:23899 rec.radio.amateur.homebrew:8391

K4YZ wrote:
> hot-ham-and-cheese@hotmail.com wrote:
> > K4YZ wrote:
> > > hot-ham-and-cheese@hotmail.com wrote:
> > > > Bill Turner wrote:
> > > > > Please folks, do not reply to these off topic posts.
> > > > >
> > > > > If these idiots never get any replies, they will eventually give up
> > > > > and go away.
> > > > >
> > > > > Thanks,
> > > > >
> > > > > Bill, W6WRT
> > > >
> > > > Bill, I respectfully disagree.  Your strategy works with normal people.
> > > >
> > > >  Robesin isn't normal, and he'll only go away when his ISP is shut off.
> > > >  He's the originator of the infamous "MARS >>>IS<<< Amareur Radio"
> > > > declaration and the excrement eating thread.  At the moment, he's got
> > > > himself wrapped up in the flag, so he's untouchable even if off-topic.
> > >
> > >     Bill...Welcome to the "logic" of Brian, hiding
> > > behind one of his "anonymous" screen names as "hot--ham-and-cheese"
> >
> > Bill, this is the first Robesin reply in years where he did not forge
> > the attributes to read "snot-scam-and sleaze..."
>
>     Not true, Brain...Not true.  However you go right on ahead with
> your tale of woe.

Does Robesin always start off with a lie?  Apparently so.

In any event, I changed his forgings back to the original content.

> > Robesin is trying to
> > win you over by playing nice this time.  Unfortunately, the rest of us
> > know his game.
>
>      Robeson DOES "play nice"...

Do I have to start another tally of your lies such as I had to do a few
years back?  What was it?  An average of 10 new lies a day for a week
before I gave up?

> Unless you blatantly lie to me or get
> caught lying about something that you should know better than to lie
> about.

No lies, Robesin.  You just don't like my opinions.
```

>   For example: Brian P Burke promising to keep certain information
> "private" via e-mail, but then running right on back to the NG and
> divulging that which he promised to not divulge.

There was no promise, and what you claim was a hostile action was
nonsense.

>   Hence the complete lack of respect for Brian.

Robesin has six other hostile actions. He says.

> > >   Brian has participated, along with Leonard H Anderson (unlicensed)
> > > and Mark Morgan (KB9RQZ) in an anti-Amateur Radio tirades and has
> > > fallen flat on his face in one prognostication about Amateur Radio
> > > after another. He doesn't like it that I've been right.
> >
> > Robesin is right? When???
>
>   Let's start off with YOUR assertions that ARES.RACES, etc couldn't
> / wouldn't respond to any major disaster in any meaningful numbrs or
> for a sustained period.
>
>   I said you were wrong.

But that's not what I said. It's what you said I said.

>   You said several nasty things about "uniforms", "patriotic
> bunting", "ARRL sockpuppet", etc [words, by the way, straight out of
> the Leonard H Anderson playbook].

I don't use the phrase "sock puppet" or "ARRL sock puppet." I don't
think I've ever used the phrase "patriotic bunting," either. I do use
the word "uniforms" as in Robesin will do anything to get into a
uniform since his USMC career was cut short by some unmentionable
mystery.

Perhaps why Robesin claims that my statements are straight out of the
Anderson playbook is because Robesin is unable to distinguish a Hot-Ham
posting from an Anderson posting. His stupidity is not my problem, but
he tries to make it so.

>   Then came a series of hurricaines and tornaos to the south and
> southwest. All of them supported at length by ARES and RACES (among
> others, of course)

Do all amateurs have super-human abilities in Robesin-world?

ARES is a volunteer organization. It suffers from shortages of
manpower and equipment just as do non-volunteer response organizations
during an emergency.

>   Then came September 11th...Then came Hurricane Katrina...Then came

> Hurricaine Rita...Again, all agencies YOU claimed couldn't / wouldn't
> respond did exactly that.

Only Amateur Radio responded with exactly enough of everything?

Lots of agencies responded. Lots of News Reports about too little, too
late. Lots of Government Officials claiming too little, too late.
Lots of Citizen Victims claiming too little, too late. I don't know
how Robesin missed it, unless he was busy with that 1,000 yard stare.

>   We can then dig up your "unlicensed devices" rants, among others.

No rant. Unlicensed devices and cell phones handle most day to day
emergencies.

> > Robesin attacks when I reposted an article taken directly from the ARRL
> > web site quoting an ARRL Vice President >in its entirety< stating that
> > amateurs have an overblown sense of self-importance.
>
>   And it wasn't true then, it's not true now.

Then inform our ARRL Officials that you don't like their opinions
(lies) instead of calling me a liar.

>   The ARRL vice president's sentiments are NOT shared by the
> Department of Homeleand Security, the Department of Defense, Salvation
> Army, The American Red Cross, the Department of State and other
> agencies.

So why attack Hot-Ham?

> > >   One of Brain's favorite tactics is to take comments out-of-context
> > > and then try to represent them as the entire "gist" of the comments.
> >
> > One of Robesin's favorite tactics is to make homosexual inuendo or
> > claims of pedophilia when he encounters someone who disagrees with him.
>
>   Only true when there is such evidence of that sort of behaviour,
> Brain.

Where is your evidence for making those attacks on me?

>   So far it's hit the mark (pradon the pun) with Mark and Toiddie.

Are you taking spelling lessons from Mark?

> The jury's out on you, but you cleaned up your act.

There is no jury. There's only Robesin and he is subject to the laws
of our nation.

> > >   My "MARS >>>IS<<< AMATEUR RADIO" comment refered to the fact that
> > > the MARS program was staffed almost entirely by Amateur Radio licensees

> > > and was in the very spirit of what it means to be an Amateur Radio
> > > licensee...
> >
> > I pointed out that MARS absolutely has non-amateur leadership,
> > non-amateur participants, and an entirely non-amateur mission.
>
>   Uhn huh.
>
>   And over 95% of Amateur Radio >>>IS<<< staffed by licensed Amateur
> Radio operators.

Had Robesin said, "Sorry Hans, Amateur Radio >>>IS<<< Amateur Radio"
there would be no disagreement. But that's not what he said.

Let's keep the focus on MARS, shall we?

> > Hell,
> > Robesin claims to have been chopped to an NMC MARS slot on Okinawa - as
> > an active duty, non-amateur participant. Yet he continues with his
> > "Sorry Hans, MARS >>>IS<<< Amateur Radio" nonsense. Didn't even know
> > what the MOD was. He tried pulling this stunt before he realized that
> > I had MARS experience.
>
>   Yes, Brain, I know what the MOD is.

You do now, thanks to me.

> You've allowed yourself to be
> hypontized by Lennie's incessant repeating of that claim.

Unfortunately you find it difficult to distinguish my posts from
Anderson's. Here's a hint, try reading the headers instead of forging
them.

>   I was wrong then. I's wrong now.

Your grammar stinks. ;^)

> > > He doesn't want to repeat THAT part since it wouldn't serve
> > > his purposes. (to try and embarrass me)
> >
> > Except that I was an actual MARS affiliate and knew what I was talking
> > about. You didn't. Still don't.
>
>   Brian uttering yet again more mistruthful statements in a
> public forum.

Facts, Robesin, facts! Stick to them and you'll do OK.

> > >   He also claims that I am repsonsible for the "excrement eating"
> > > thread. That's a blatant lie. His "friend", Mark Morgan, KB9RQZ, is
> > > SOLELY RESPONSIBLE for the authorship of those subject lines and use of
> > > profanity. You won't see my subject lines repeating it..

> >
> > Sorry Robesin, but you are the one who posted the "excrement eating"
> > filth, and keep reposting your quote. Unbelievable, but Google
> > provides.
>
>   Sorry, brain, but one again YOU are lying.
>
>   The "excrement eating" posts belong to your "buddy", KB9RQZ. And
> the recent onslaught of re-tasked subject lines with exactly those
> words are HIS doings...Not mine.

Gee, you sure hate it when someone out-assholes you using your own sick
tactics.

>   Stop lying, Mr.

You originated the excrement eating posting, and you have since
requoted yourself for the sake of clarity, however, what you said was
far from clear. If you'd like to restate what it was that you said,
hopefully in a clearer way...

No, nevermind. It was sick enough the first time it came around.

> > >   Brain, of course, has NEVER owned up to any one of his own
> > > misrepresentatiuons of Amateur Radio.
> >
> > I have opinions but Robesin doesn't allow dissenting opinions.
> > Opinions that differ from his are "LIES."
>
>   Again with the deceit.

Again with your lies.

> > > He has made ludicrous claims
> > > that have failed to meet any statndard of proof or substance, including
> > > any one of several claims of having been a DX station,
> >
> > David Heil/K8MN has me confirmed at least twice. Robesin knows this,
> > therefore Robesin lies.
>
>   No I don't know this.
>
>   I don't have Dave's logs.

So now Dave is lying?

>   However we are STILL awating some evidence of the validity of your
> claims of having operated legally from Somalia.

You'll just have to accept or reject my say so. Kind of like your
claims to seven hostile actions.

> > > misrepresentations about MARS, RACES, ARES, and other poorly

> > > conceptualized opinions that have fallen by the wayside as failing the
> > > test of evidence.
> >
> > After it was obvious from one regular on RRAP that his ARES group was
> > unable to fully support an upcoming American Red Cross exercise,
> > Robesin was asked to write a duty schedule for the exercise. The
> > stated requirements were three 3 operators on duty per shift. He
> > shorted the 1st eight hours of the exercise by all three personnel. He
> > claims it was covered, but the supported agency was not supported at
> > all. The subsequent shifts were shorted from one to two operators per
> > shift. Robesin claims that ARES can support all agency needs even when
> > they lack enough volunteers. Amateur Operators can perform Super-Human
> > feats, OR the ARC is just an 8AM - 5PM agency.
>
>   Sigh.

Indeed. Your shenanigans are archived in Google.

>   I guess we can only watch Brain continue to make a fool out of
> himself.

No fooling. It's all archived in Google.

> > >   Everyone's entitled to their opinions.
> >
> > Not true. Hot-ham is not entitled to an opinion, if Robesin has
> > anything to say about it.
>
>   Sure. Have an opinion.
>
>   But when you express it as "fact" and the "facts" don't bear up
> under the scrutiny of 3rd party reports to the contrary, don't get
> upset when you get "called" for your errors, Brain.

You post in absolutes..., for example, "Sorry Hans, MARS >>>IS<<<
Amateur Radio."

I pointed out that the Chief of Air Force MARS, at the time, was not an
amateur radio operator.

That single fact sunk your whole position on MARS as an amateur
organization, unless you want to argue the definition of "is."

> > > Brain's opinions of me are
> > > obviously low as he, despite having allegedly been a veteran himself,
> > > are anti-veteran and anti-volunteer.
> >
> > My opinions of Robesin are spot on.
>
>   Uhhhhhh...YOUR spots are usually little yellow rings on the carpet,
> Brain.

??? More Robesin lies? Stick to the facts, Robesin.

> > In addition to slinging accusations of homosexual and pedophilia at
> > those who disagree with him, I am now a veteran-hater and a
> > volunteer-hater. Nevermind that I am a veteran and a volunteer.
>
>   You hated them before, Brain...I am sure I am only the focus of
> your disdain in THIS forum.

Nope. You bring disdain upon yourself in your behavio[u]r toward
others.

>   You've not had a single constructive, complimentary thing to say
> about ANY volunteer group save your Scouting troop.

My comments were about people who are volunteers of multiple volunteer
agencies, and when a crisis occurs, have to support one agency and not
all. For example, you are a "professional" volunteer, committing to
the Tennessee State Militia, the Civil Air Patrol, ARES, MARS, and who
knows what else. And your professional position as an ER LPN should be
a high priority in your community. So when the claxon goes off, which
way do you run? Which volunteer organization(s) are left holding the
bag because Robesin overcommitted himself and really isn't super-human?

> > Robesin has claimed that he can have me picked up on his say so as an
> > LPN with a simple phone call from Tennessee. To another poster on
> > RRAP, he claimed that "People who shoot off their mouths can have their
> > tires slashed, rocks thrown through windows, and wives terrorized," but
> > later clarified that all those bad things would be at someone else's
> > hands.
>
>   Bigger sigh.

Yeh. Big, big sigh. Maybe if you just quit posting such nonsense....

>   More of Brian's misquoting. I cited a news item some
> years ago where exactly that thing occcured.

Here's a hint, next time you cite a news item, present it as a cited
news item and not as a threat. It's called "clarity," and you lack it.

>   Now for having mentioned it, Brain insists that I have made thinly
> veiled threats of a same nature.
>
>   An act of cowardice.

I perceived a threat. In Robesin's own words, one has only to perceive
a threat for there to be a threat.

> > A well known Amateur Radio store advertising in QST, whose ham daughter
> > was featured in the ad photo, was said to be "selling something" but
> > not amateur equipment.
>

>   More deceit.
>
>   Brain...WHY do you lie so readily?

Google provides.

> > Robesin, whose father was a Sailor Army Recruiter (I swear thats not a
> > typo), lays claim to seven hostile actions in the USMC, but who's only
> > overseas assignment was Okinawa.
>
>   "Sailor Army Recruiter"...?!?!?
>
>   No Brain...let's get the FACTS right.

Yes, yes, finally!!!

> My father served on Active
> Duty in the Untied States Navy during the Korean Conflict.

>   He was later an Active Duty recuriter for the US Army Reserve.
> Yes, Brain, SOME people DO serve in more than one branch of the Armed
> Forces than one...

than one...

OK.

>   And no, Brain, Okinawa was NOT my "only overseas assignment".

Then the only thing remaining is a small matter... PROOF.

> > There's more, much more, but if I went on and on and on you'd probably
> > think I was making it up. I'm not. Google provides.
>
>   Much of what you say is not "made up"...Just quoted out of context
> or misattributed.
>
>   But mostly quoted out of context.

Dig it up, "fatboy."

> > > I've rubbed his nose in one
> > > failed opinion after another.
> >
> > Yet it is your excrement on another man's genitals, according to your
> > own original claims and subsequent quotes. Google provides, and you've
> > requoted yourself numerous times.
>
>   I guess your English comprehension skills are as incompetent as
> Morkie's.
>
>   That's not what I said. But you go right on ahead pretending it
> is as long s you think no one else can see it....

What scares me most isn't that you made a mistake in your grammar when
posting that sick nonsense, it's that you posted the sick nonsense at
all.

It is grossly off topic and has no place in an amateur radio discussion
newsgroup.

I certainly hope that Paul Schleck agrees.

```
> > >      So...There's my $0.02.  Do with it as you will, but I'd take a BIG
> > > grain of salt with any traffic coming from "hot-ham-and-cheese", as you
> > > are welcome to do with mine.
> >
> > Your $0.02 isn't worth two cents.  Google provides.
>
>     Google provides evidence that any "opinions" uttered by you under
> any one of your "anonymous" names needs to be taken with a grin of salt
> the size of the Rock of Gibralter.
```

>>>GRIN<<<

```
>      As usual.....
>
> Steve, K4YZ
```

Heil says that people who cannot spell aren't worthy of leadership...

```
From 8234349625914236533
X-Google-Thread: fc2a5,106b259178bf17bd,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!48g2000cwx.googlegroups.com!not-for-
mail
From: jimspeer@jimspeer.org
Newsgroups: rec.radio.amateur.homebrew
Subject: Ideal ham receiver
Date: 23 Dec 2006 07:40:52 -0800
Organization: http://groups.google.com
Lines: 16
Message-ID: <1166888452.256055.166010@48g2000cwx.googlegroups.com>
NNTP-Posting-Host: 68.118.125.120
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1166888458 3768 127.0.0.1 (23 Dec 2006 15:40:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 23 Dec 2006 15:40:58 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; Intel Mac OS X; en-US; rv:1.8.0.9)
Gecko/20061206 Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
```

```
Injection-Info: 48g2000cwx.googlegroups.com; posting-host=68.118.125.120;
   posting-account=Wd37lQ0AAACG_PdeTAZEcrBqevkI65vk
Xref: g2news2.google.com rec.radio.amateur.homebrew:8392
```

I don't much like the receivers I've used in contemporary tranceivers -- the general coverage synthisized open front end ones. (I hasten to add I haven't used any of the $4000 rigs; can't afford them). But the ones I have used seem plagued with near-signal desensitization, front end overload, etc., and I suppose all that comes from putting the selectivity so far downstream.

I'm almost tempted to get an old 75s4 and shut up, but I really don't need another room heater, so, instead, I'm thinking of building my own receiver along the lines laid down by the late Doug DeMaw in his _QRP Notebook_. Single conversion 160m superhet with Collins mechanical filters in the IF and a series of down-converters for the other bands. Anybody got any experience with the DeMaw Design?

Jim, K5YUT

```
From -221487242804582434
X-Google-Thread: fc2a5,106b259178bf17bd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe02.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1166888452.256055.166010@48g2000cwx.googlegroups.com>
Subject: Re: Ideal ham receiver
Lines: 43
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <Szcjh.24$Cy1.15@newsfe02.lga>
X-Trace:
nphhjmdkmllhpdkekannfilpcpbbolnmdbpenoghddikmlahnicfceledepkikoolhlefpnpglhfdcnhjp
emammbalmgmeahpkklaoondfgkbgigklnihmmjemffnkelbpincjkllopekodc
NNTP-Posting-Date: Sat, 23 Dec 2006 09:12:34 MST
Date: Sat, 23 Dec 2006 11:12:31 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8393
```

I think the main issue with the contemporary transceivers is covering DC to daylight and trying to make the thing work. A single band design seems to be a lot easier to make bulletproof.

Modern QRP design has advanced a lot since the DeMaw days, even over the venerable 75s4. Take a look at designs by K8IQY or AD6A or N7VE and you will find receivers that will be head and shoulders beyond anything that

W1FB ever dreamed of.

The front end overload issues on simple receivers seems to be largely related to the use of the 602/612 mixer. The passive mixer, or Tayloe mixer, designs seem to fare much better. The Elecraft K1 is the exception that proves the rule; I suspect careful gain management may have something to do with that.

KK7B has also written a LOT on receiver design, and his designs have a good rep, but I've never used them so I can't comment from experience.

Doug's designs are fun, and sort of nostalgic, but if you are looking for 21st century performance, it isn't the place to look.

..

<jimspeer@jimspeer.org> wrote in message
news:1166888452.256055.166010@48g2000cwx.googlegroups.com...
>I don't much like the receivers I've used in contemporary tranceivers
> -- the general coverage synthisized open front end ones. (I hasten to
> add I haven't used any of the $4000 rigs; can't afford them). But the
> ones I have used seem plagued with near-signal desensitization, front
> end overload, etc., and I suppose all that comes from putting the
> selectivity so far downstream.
>
> I'm almost tempted to get an old 75s4 and shut up, but I really don't
> need another room heater, so, instead, I'm thinking of building my own
> receiver along the lines laid down by the late Doug DeMaw in his _QRP
> Notebook_. Single conversion 160m superhet with Collins mechanical
> filters in the IF and a series of down-converters for the other bands.
> Anybody got any experience with the DeMaw Design?
>
> Jim, K5YUT
>

From 266898940733369560
X-Google-Thread: fc2a5,106b259178bf17bd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews5.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal ham receiver
References: <1166888452.256055.166010@48g2000cwx.googlegroups.com>
In-Reply-To: <1166888452.256055.166010@48g2000cwx.googlegroups.com>

X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 42
Message-ID: <ZRcjh.5330$AY1.1183@bignews5.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcbonioljiplojiffalmjonjnbjjfhflbjanml
kppbhcodhjhpilaahihelibegjblkbihbbjoldfngcmehnpohienbhjaodmfkofekmopkenohjkeih
NNTP-Posting-Date: Sat, 23 Dec 2006 11:31:53 EST
Organization: BellSouth Internet Group
Date: Sat, 23 Dec 2006 11:32:04 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8394

jimspeer@jimspeer.org wrote:
> I don't much like the receivers I've used in contemporary tranceivers -- the general coverage synthisized open front end ones. (I hasten to add I haven't used any of the $4000 rigs; can't afford them). But the ones I have used seem plagued with near-signal desensitization, front end overload, etc., and I suppose all that comes from putting the selectivity so far downstream.
>
> I'm almost tempted to get an old 75s4 and shut up, but I really don't need another room heater, so, instead, I'm thinking of building my own receiver along the lines laid down by the late Doug DeMaw in his _QRP Notebook_. Single conversion 160m superhet with Collins mechanical filters in the IF and a series of down-converters for the other bands. Anybody got any experience with the DeMaw Design?
>
> Jim, K5YUT
>

There are many variations on this theme. There are two camps here, the Collins version was a 160 meter first IF with a 455 khz second if. The Drake version was an 80 meter first IF with a second if of 455 khz, and a third if of 50 khz. So you have the 75S series vs the 2B series.

Lafayette radio's famous HA350 used the 2B method as did a home brew rig in the '67 handbook (both without the 50 khz if, they used a Collins filter.)

I've been thinking of building something along these lines to make use of some 85 khz ARC-5 IF cans in the junk box. You'll get somewhat better image rejection above 20 meters if you use an 80 meter IF instead of 160, but otherwise either IF scheme is ok.

Yet another idea is a single conversion with a 9mhz IF. Since I have a bunch of surplus 9mhz filters (they are 8 pole units with 3.2 khz bandwidth) I was also thinking of a rig with these. True the filters are a bit wider than common today, but if I put THREE of them in cascade (between IF stages) they should do a good job. I would use a DDS VFO, but would also used a tuned (not broadband) front end. I have enough toroids and multi section variable caps in the junk box for that. I

also have some old tv turret tuners that would make a good band switch
for the front end (put the toroids on the tuner strips). I have lots of
J310 fets, so I'd use them in the front end as well.

```
From 47066800696205740
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: Tri-Faced Robesin Strikes Out Again
Date: Sat, 23 Dec 2006 13:28:44 -0500
Message-ID: <hqsqo2958ebb4vik4oaksr427og6lefthd@4ax.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
<1166788359.491358.56780@a3g2000cwd.googlegroups.com>
<1166792384.673664.20000@80g2000cwy.googlegroups.com>
<1166845903.893439.54470@80g2000cwy.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 190
NNTP-Posting-Date: 23 Dec 2006 17:34:30 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:60047
rec.radio.amateur.misc:27324 rec.radio.cb:23905 rec.radio.amateur.homebrew:8395
```

On 22 Dec 2006 19:51:43 -0800, hot-ham-and-cheese@hotmail.com wrote:

```
>
>K4YZ wrote:
>> hot-ham-and-cheese@hotmail.com wrote (N0IMD):
>> > Bill Turner wrote:
>> > > Please folks, do not reply to these off topic posts.
>> > >
>> > > If these idiots never get any replies, they will eventually give up
>> > > and go away.
>> > >
>> > > Thanks,
>> > >
>> > > Bill, W6WRT
>> >
>> > Bill, I respectfully disagree.  Your strategy works with normal people.
```

>> > Robesin isn't normal, and he'll only go away when his ISP is shut off.
>> > He's the originator of the infamous "MARS >>>IS<<< Amareur Radio"
>> > declaration and the excrement eating thread. At the moment, he's got
>> > himself wrapped up in the flag, so he's untouchable even if off-topic.
>>
>>   Bill...Welcome to the "logic" of Brian P Burke, N0IMD, hiding
>> behind one of his "anonymous" screen names as "hot--ham-and-cheese"
>
>Bill, this is the first Robesin reply in years where he did not forge
>the attributes to read "snot-scam-and sleaze..." Robesin is trying to
>win you over by playing nice this time. Unfortunately, the rest of us
>know his game.

ineed I had missed that

although in fair when he conducting a MASS vandalism of my post he
sometimes misses doing that
>
>>   Brian has participated, along with Leonard H Anderson (unlicensed)
>> and Mark Morgan (KB9RQZ) in an anti-Amateur Radio tirades and has
>> fallen flat on his face in one prognostication about Amateur Radio
>> after another. He doesn't like it that I've been right.
>
>Robesin is right? When???
>
>Robesin attacks when I reposted an article taken directly from the ARRL
>web site quoting an ARRL Vice President >in its entirety< stating that
>amateurs have an overblown sense of self-importance.

you leave that according to steve being anti steve in the slightest
way is being anti Ham
>
>>   One of Brain's favorite tactics is to take comments out-of-context
>> and then try to represent them as the entire "gist" of the comments.
>
>One of Robesin's favorite tactics is to make homosexual inuendo or
>claims of pedophilia when he encounters someone who disagrees with him.
>

or tax evsasion welfare fraud or that one defrauded the govt of one
rightfull salery (that was his constant attack on Frank)
>>   My "MARS >>>IS<<< AMATEUR RADIO" comment refered to the fact that
>> the MARS program was staffed almost entirely by Amateur Radio licensees
>> and was in the very spirit of what it means to be an Amateur Radio
>> licensee...
>
>I pointed out that MARS absolutely has non-amateur leadership,
>non-amateur participants, and an entirely non-amateur mission. Hell,
>Robesin claims to have been chopped to an NMC MARS slot on Okinawa - as
>an active duty, non-amateur participant. Yet he continues with his
>"Sorry Hans, MARS >>>IS<<< Amateur Radio" nonsense. Didn't even know
>what the MOD was. He tried pulling this stunt before he realized that
>I had MARS experience.

he tries lots of stunts still no sign he jknows anything about the the
uquipmwnt he would have in Marine Stint
>
>> He doesn't want to repeat THAT part since it wouldn't serve
>> his purposes. (to try and embarrass me)
>
>Except that I was an actual MARS affiliate and knew what I was talking
>about. You didn't. Still don't.
>

h might have been in MARS , which does not mean he understood anything
about though

>>   He also claims that I am repsonsible for the "excrement eating"
>> thread. That's a blatant lie. His "friend", Mark Morgan, KB9RQZ, is
>> SOLELY RESPONSIBLE for the authorship of those subject lines and use of
>> profanity. You won't see my subject lines repeating it..
>
>Sorry Robesin, but you are the one who posted the "excrement eating"
>filth, and keep reposting your quote. Unbelievable, but Google
>provides.

I believe any sickness is possible from robeson

>
>>   Brain, of course, has NEVER owned up to any one of his own
>> misrepresentatiuons of Amateur Radio.
>
>I have opinions but Robesin doesn't allow dissenting opinions.
>Opinions that differ from his are "LIES."

and prof that the hold ing is ANTI Ham
>
>> He has made ludicrous claims
>> that have failed to meet any statndard of proof or substance, including
>> any one of several claims of having been a DX station,
>
>David Heil/K8MN has me confirmed at least twice. Robesin knows this,
>therefore Robesin lies.

I guess there still musst specail rule for the MMM
>
>> misrepresentations about MARS, RACES, ARES, and other poorly
>> conceptualized opinions that have fallen by the wayside as failing the
>> test of evidence.
>
>After it was obvious from one regular on RRAP that his ARES group was
>unable to fully support an upcoming American Red Cross exercise,
>Robesin was asked to write a duty schedule for the exercise. The
>stated requirements were three 3 operators on duty per shift. He
>shorted the 1st eight hours of the exercise by all three personnel. He
>claims it was covered, but the supported agency was not supported at

>all. The subsequent shifts were shorted from one to two operators per
>shift. Robesin claims that ARES can support all agency needs even when
>they lack enough volunteers. Amateur Operators can perform Super-Human
>feats, OR the ARC is just an 8AM - 5PM agency.
>
>>   Everyone's entitled to their opinions.
>
>Not true. Hot-ham is not entitled to an opinion, if Robesin has
>anything to say about it.

nor I am Mark Morgan nor is Len Anderson or Todd or Frank or anyone
that dares oppose him
>
>> Brain's opinions of me are
>> obviously low as he, despite having allegedly been a veteran himself,
>> are anti-veteran and anti-volunteer.
>
>My opinions of Robesin are spot on.
>
>In addition to slinging accusations of homosexual and pedophilia at
>those who disagree with him, I am now a veteran-hater and a
>volunteer-hater. Nevermind that I am a veteran and a volunteer.

the same apply to me a Vetern although I do not volonoteer outseide
the Home (taking care of my Father who is terminal ill come first of
course this makes of all thing to stev an elder abuser) I do support
them
>
>Robesin has claimed that he can have me picked up on his say so as an
>LPN with a simple phone call from Tennessee. To another poster on
>RRAP, he claimed that "People who shoot off their mouths can have their
>tires slashed, rocks thrown through windows, and wives terrorized," but
>later clarified that all those bad things would be at someone else's
>hands.
>
>A well known Amateur Radio store advertising in QST, whose ham daughter
>was featured in the ad photo, was said to be "selling something" but
>not amateur equipment.
>
>Robesin, whose father was a Sailor Army Recruiter (I swear thats not a
>typo), lays claim to seven hostile actions in the USMC, but who's only
>overseas assignment was Okinawa.

check bio qrz N8DOS I believe on the sailor army recruter

>
>There's more, much more, but if I went on and on and on you'd probably
>think I was making it up. I'm not. Google provides.
>
>> I've rubbed his nose in one
>> failed opinion after another.
>
>Yet it is your excrement on another man's genitals, according to your

```
>own original claims and subsequent quotes.  Google provides, and you've
>requoted yourself numerous times.

he can't face any fact
>
>>      So...There's my $0.02.  Do with it as you will, but I'd take a BIG
>> grain of salt with any traffic coming from "hot-ham-and-cheese", as you
>> are welcome to do with mine.
>>
>> 73
>>
>> Steve, K4YZ
>
>Your $0.02 isn't worth two cents.  Google provides.
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From 4584856954137916492
X-Google-Thread: fc2a5,106b259178bf17bd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!aioe.org!not-for-mail
From: "Yuri Blanarovich" <K3BU@optonline.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal ham receiver
Date: Sat, 23 Dec 2006 13:53:53 -0500
Organization: Aioe.org NNTP Server
Lines: 25
Message-ID: <emju07$nur$1@aioe.org>
References: <1166888452.256055.166010@48g2000cwx.googlegroups.com>
NNTP-Posting-Host: m7bFxpLFTektSpzevj+3aQ.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.homebrew:8396

Try Drake R4B and Softrock tuned to the first IF 5645 (?) you will get best
of both worlds. Switching before and after filters gives more options.

Yuri, K3BU

<jimspeer@jimspeer.org> wrote in message
news:1166888452.256055.166010@48g2000cwx.googlegroups.com...
>I don't much like the receivers I've used in contemporary tranceivers
> -- the general coverage synthisized open front end ones. (I hasten to
> add I haven't used any of the $4000 rigs; can't afford them). But the
```

> ones I have used seem plagued with near-signal desensitization, front
> end overload, etc., and I suppose all that comes from putting the
> selectivity so far downstream.
>
> I'm almost tempted to get an old 75s4 and shut up, but I really don't
> need another room heater, so, instead, I'm thinking of building my own
> receiver along the lines laid down by the late Doug DeMaw in his _QRP
> Notebook_. Single conversion 160m superhet with Collins mechanical
> filters in the IF and a series of down-converters for the other bands.
> Anybody got any experience with the DeMaw Design?
>
> Jim, K5YUT
>

From 8504796133463652837
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed1.ip.tiscali.net!
tiscali!transit1.news.tiscali.nl!transit.news.xs4all.nl!newsgate.cistron.nl!
xs4all!news2.euro.net!66.150.105.54.MISMATCH!nntpserver.com!zeus.nntpserver.com!
hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.homebrew
Subject: Re: More Guy Nurse Rantings
Date: Sat, 23 Dec 2006 13:56:01 -0500
Message-ID: <shtqo2h701pf0oad36qriucileda6sj9ij@4ax.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
<1166788359.491358.56780@a3g2000cwd.googlegroups.com>
<1166792384.673664.20000@80g2000cwy.googlegroups.com>
<1166845903.893439.54470@80g2000cwy.googlegroups.com>
<1166878269.179058.143750@42g2000cwt.googlegroups.com>
<1166886504.288228.177350@f1g2000cwa.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 562
NNTP-Posting-Date: 23 Dec 2006 18:01:54 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:60048
rec.radio.amateur.misc:27325 rec.radio.cb:23906 rec.radio.amateur.homebrew:8397

On 23 Dec 2006 07:08:24 -0800, hot-ham-and-cheese@hotmail.com wrote:

>K4YZ wrote:
>> hot-ham-and-cheese@hotmail.com wrote:
>> > K4YZ wrote:
>> > > hot-ham-and-cheese@hotmail.com wrote:
>> > > > Bill Turner wrote:
>> > > > > Please folks, do not reply to these off topic posts.
>> > > > >
>> > > > > If these idiots never get any replies, they will eventually give up
>> > > > > and go away.
>> > > > >
>> > > > > Thanks,
>> > > > >
>> > > > > Bill, W6WRT
>> > > >
>> > > > Bill, I respectfully disagree. Your strategy works with normal people.
>> > > >
>> > > > Robesin isn't normal, and he'll only go away when his ISP is shut off.
>> > > > He's the originator of the infamous "MARS >>>IS<<< Amareur Radio"
>> > > > declaration and the excrement eating thread. At the moment, he's got
>> > > > himself wrapped up in the flag, so he's untouchable even if off-topic.
>> > >
>> > >   Bill...Welcome to the "logic" of Brian, hiding
>> > > behind one of his "anonymous" screen names as "hot--ham-and-cheese"
>> >
>> > Bill, this is the first Robesin reply in years where he did not forge
>> > the attributes to read "snot-scam-and sleaze..."
>>
>>   Not true, Brain...Not true. However you go right on ahead with
>> your tale of woe.
>
>Does Robesin always start off with a lie? Apparently so.

almost sometimes he does make a statement that just makes no sense
>
>In any event, I changed his forgings back to the original content.
>
>> > Robesin is trying to
>> > win you over by playing nice this time. Unfortunately, the rest of us
>> > know his game.
>>
>>   Robeson DOES "play nice"...
>
>Do I have to start another tally of your lies such as I had to do a few
>years back? What was it? An average of 10 new lies a day for a week
>before I gave up?

with the ways he was gne down hill you would have trouble counting
them

>
>> Unless you blatantly lie to me or get

>> caught lying about something that you should know better than to lie
>> about.
>
>No lies, Robesin. You just don't like my opinions.

or mine or len or franks or todd or...

>
>>   For example: Brian P Burke promising to keep certain information
>> "private" via e-mail, but then running right on back to the NG and
>> divulging that which he promised to not divulge.
>
>There was no promise, and what you claim was a hostile action was
>nonsense.

like steve sending me with Demand I keep it private when it was steve
effort to balckmail into leaving RRAP in 1999

>
>>   Hence the complete lack of respect for Brian.
>
>Robesin has six other hostile actions. He says.

Robeson has plenty of hostile just known authorized by the US Govt

>
>> > >   Brian has participated, along with Leonard H Anderson (unlicensed)
>> > > and Mark Morgan (KB9RQZ) in an anti-Amateur Radio tirades and has
>> > > fallen flat on his face in one prognostication about Amateur Radio
>> > > after another. He doesn't like it that I've been right.
>> >
>> > Robesin is right? When???
>>
>>   Let's start off with YOUR assertions that ARES.RACES, etc couldn't
>> / wouldn't respond to any major disaster in any meaningful numbrs or
>> for a sustained period.
>>
>>   I said you were wrong.
>
>But that's not what I said. It's what you said I said.

indeed

to be iar is the problem that steve can't read or write or can't tell
the truth

>
>>   You said several nasty things about "uniforms", "patriotic
>> bunting", "ARRL sockpuppet", etc [words, by the way, straight out of
>> the Leonard H Anderson playbook].
>
>I don't use the phrase "sock puppet" or "ARRL sock puppet." I don't
>think I've ever used the phrase "patriotic bunting," either. I do use

>the word "uniforms" as in Robesin will do anything to get into a
>uniform since his USMC career was cut short by some unmentionable
>mystery.

which according to him wasn't physical or mental in nature and that is
the limit of choices as far as the Marine COrps

wait I have it was both at once making any statement is mental or
phycal inaccurate technicaly

>
>Perhaps why Robesin claims that my statements are straight out of the
>Anderson playbook is because Robesin is unable to distinguish a Hot-Ham
>posting from an Anderson posting. His stupidity is not my problem, but
>he tries to make it so.

it is you problem but only in trying to deal with the resulking mess

>
>>   Then came a series of hurricaines and tornaos to the south and
>> southwest. All of them supported at length by ARES and RACES (among
>> others, of course)
>
>Do all amateurs have super-human abilities in Robesin-world?

it seems so I guess I am not a ham I am merely Human
>
>ARES is a volunteer organization. It suffers from shortages of
>manpower and equipment just as do non-volunteer response organizations
>during an emergency.
>
>>   Then came September 11th...Then came Hurricane Katrina...Then came
>> Hurricaine Rita...Again, all agencies YOU claimed couldn't / wouldn't
>> respond did exactly that.
>
>Only Amateur Radio responded with exactly enough of everything?
>
>Lots of agencies responded. Lots of News Reports about too little, too
>late. Lots of Government Officials claiming too little, too late.
>Lots of Citizen Victims claiming too little, too late. I don't know
>how Robesin missed it, unless he was busy with that 1,000 yard stare.

what caused that stare his mental disorder or something else?
>
>>   We can then dig up your "unlicensed devices" rants, among others.
>
>No rant. Unlicensed devices and cell phones handle most day to day
>emergencies.

and assit even in katrina where a fair amount of text traffic did work
its ways through according to the Media

>

>> > Robesin attacks when I reposted an article taken directly from the ARRL
>> > web site quoting an ARRL Vice President >in its entirety< stating that
>> > amateurs have an overblown sense of self-importance.
>>
>>   And it wasn't true then, it's not true now.
>
>Then inform our ARRL Officials that you don't like their opinions
>(lies) instead of calling me a liar.

he can't
>
>>   The ARRL vice president's sentiments are NOT shared by the
>> Department of Homeleand Security, the Department of Defense, Salvation
>> Army, The American Red Cross, the Department of State and other
>> agencies.
>
>So why attack Hot-Ham?

becuase he hates YOU for some reason and worship the ARRL you should
never have posted anything expousing a lapse of the ARRL

unless as is the case of the 80 m petion recently he already opposes
the atction

indeed he grew pissed at for Daring to agree with him seting off
another round of diatribe
>
>> > >   One of Brain's favorite tactics is to take comments out-of-context
>> > > and then try to represent them as the entire "gist" of the comments.
>> >
>> > One of Robesin's favorite tactics is to make homosexual inuendo or
>> > claims of pedophilia when he encounters someone who disagrees with him.
>>
>>   Only true when there is such evidence of that sort of behaviour,
>> Brain.
>
>Where is your evidence for making those attacks on me?

or your evidence regarding me and your lies about pedophia?
>
>>   So far it's hit the mark (pradon the pun) with Mark and Toiddie.
>
>Are you taking spelling lessons from Mark?

while not noting the my speeling is gooing thorugh a better phrase
(since I can final stop taking alergy pills)

>
>> The jury's out on you, but you cleaned up your act.
>
>There is no jury. There's only Robesin and he is subject to the laws
>of our nation.

he thinks not which makes him a Soiciopath

>
>> > >   My "MARS >>>IS<<< AMATEUR RADIO" comment refered to the fact that
>> > > the MARS program was staffed almost entirely by Amateur Radio licensees
>> > > and was in the very spirit of what it means to be an Amateur Radio
>> > > licensee...
>> >
>> > I pointed out that MARS absolutely has non-amateur leadership,
>> > non-amateur participants, and an entirely non-amateur mission.
>>
>>   Uhn huh.
>>
>>   And over 95% of Amateur Radio >>>IS<<< staffed by licensed Amateur
>> Radio operators.
>
>Had Robesin said, "Sorry Hans, Amateur Radio >>>IS<<< Amateur Radio"
>there would be no disagreement. But that's not what he said.
>
>Let's keep the focus on MARS, shall we?

steve can't focus on anything
>
>> > Hell,
>> > Robesin claims to have been chopped to an NMC MARS slot on Okinawa - as
>> > an active duty, non-amateur participant. Yet he continues with his
>> > "Sorry Hans, MARS >>>IS<<< Amateur Radio" nonsense. Didn't even know
>> > what the MOD was. He tried pulling this stunt before he realized that
>> > I had MARS experience.
>>
>>   Yes, Brain, I know what the MOD is.
>
>You do now, thanks to me.

steve has a problem with tense and timelines too
>
>> You've allowed yourself to be
>> hypontized by Lennie's incessant repeating of that claim.
>
>Unfortunately you find it difficult to distinguish my posts from
>Anderson's. Here's a hint, try reading the headers instead of forging
>them.

he can't
>
>>   I was wrong then. I's wrong now.
>
>Your grammar stinks. ;^)
>
>> > > He doesn't want to repeat THAT part since it wouldn't serve
>> > > his purposes. (to try and embarrass me)
>> >
>> > Except that I was an actual MARS affiliate and knew what I was talking

```
>> > about.  You didn't.  Still don't.
>>
>>      Brian uttering yet again more mistruthful statements in a
>> public forum.
>
>Facts, Robesin, facts!  Stick to them and you'll do OK.

steve does not know what the word means
>
>> > >     He also claims that I am repsonsible for the "excrement eating"
>> > > thread.  That's a blatant lie.  His "friend", Mark Morgan, KB9RQZ, is
>> > > SOLELY RESPONSIBLE for the authorship of those subject lines and use of
>> > > profanity.  You won't see my subject lines repeating it..
>> >
>> > Sorry Robesin, but you are the one who posted the "excrement eating"
>> > filth, and keep reposting your quote.  Unbelievable, but Google
>> > provides.
>>
>>      Sorry, brain, but one again YOU are lying.
>>
>>     The "excrement eating" posts belong to your "buddy", KB9RQZ.  And
>> the recent onslaught of re-tasked subject lines with exactly those
>> words are HIS doings...Not mine.
>
>Gee, you sure hate it when someone out-assholes you using your own sick
>tactics.

there I take exception BB I was being unpleasant yes but truth sick
and unture are steve choosen tactics

>
>>     Stop lying, Mr.
>
>You originated the excrement eating posting, and you have since
>requoted yourself for the sake of clarity, however, what you said was
>far from clear.  If you'd like to restate what it was that you said,
>hopefully in a clearer way...

he is still stuck with days and week weeks of lies resulting from his
efforts to claim it ia all our fualt

>
>No, nevermind.  It was sick enough the first time it came around.
>
>> > >     Brain, of course, has NEVER owned up to any one of his own
>> > > misrepresentatiuons of Amateur Radio.
>> >
>> > I have opinions but Robesin doesn't allow dissenting opinions.
>> > Opinions that differ from his are "LIES."
>>
>>      Again with the deceit.
>
>Again with your lies.
```

>
>> > > He has made ludicrous claims
>> > > that have failed to meet any statndard of proof or substance, including
>> > > any one of several claims of having been a DX station,
>> >
>> > David Heil/K8MN has me confirmed at least twice. Robesin knows this,
>> > therefore Robesin lies.
>>
>>   No I don't know this.
>>
>>   I don't have Dave's logs.
>
>So now Dave is lying?

of course everyone but Steve is conpsiring aginast Steve

I thought they called that Paranoia

>
>>   However we are STILL awating some evidence of the validity of your
>> claims of having operated legally from Somalia.
>
>You'll just have to accept or reject my say so. Kind of like your
>claims to seven hostile actions.
>
>> > > misrepresentations about MARS, RACES, ARES, and other poorly
>> > > conceptualized opinions that have fallen by the wayside as failing the
>> > > test of evidence.
>> >
>> > After it was obvious from one regular on RRAP that his ARES group was
>> > unable to fully support an upcoming American Red Cross exercise,
>> > Robesin was asked to write a duty schedule for the exercise. The
>> > stated requirements were three 3 operators on duty per shift. He
>> > shorted the 1st eight hours of the exercise by all three personnel. He
>> > claims it was covered, but the supported agency was not supported at
>> > all. The subsequent shifts were shorted from one to two operators per
>> > shift. Robesin claims that ARES can support all agency needs even when
>> > they lack enough volunteers. Amateur Operators can perform Super-Human
>> > feats, OR the ARC is just an 8AM - 5PM agency.
>>
>>   Sigh.
>
>Indeed. Your shenanigans are archived in Google.
>
>>   I guess we can only watch Brain continue to make a fool out of
>> himself.
>
>No fooling. It's all archived in Google.

google prvides
>
>> > >   Everyone's entitled to their opinions.
>> >

>> > Not true. Hot-ham is not entitled to an opinion, if Robesin has
>> > anything to say about it.
>>
>>   Sure. Have an opinion.
>>
>>   But when you express it as "fact" and the "facts" don't bear up
>> under the scrutiny of 3rd party reports to the contrary, don't get
>> upset when you get "called" for your errors, Brain.
>
>You post in absolutes..., for example, "Sorry Hans, MARS >>>IS<<<
>Amateur Radio."

which generaly means he must absolutely be wrong
>
>I pointed out that the Chief of Air Force MARS, at the time, was not an
>amateur radio operator.
>
>That single fact sunk your whole position on MARS as an amateur
>organization, unless you want to argue the definition of "is."

nah he wilsteal it from Clinton
>
>> > > Brain's opinions of me are
>> > > obviously low as he, despite having allegedly been a veteran himself,
>> > > are anti-veteran and anti-volunteer.
>> >
>> > My opinions of Robesin are spot on.
>>
>>   Uhhhhhh...YOUR spots are usually little yellow rings on the carpet,
>> Brain.
>
>??? More Robesin lies? Stick to the facts, Robesin.
>
>> > In addition to slinging accusations of homosexual and pedophilia at
>> > those who disagree with him, I am now a veteran-hater and a
>> > volunteer-hater. Nevermind that I am a veteran and a volunteer.
>>
>>   You hated them before, Brain...I am sure I am only the focus of
>> your disdain in THIS forum.
>
>Nope. You bring disdain upon yourself in your behavio[u]r toward
>others.
>
>>   You've not had a single constructive, complimentary thing to say
>> about ANY volunteer group save your Scouting troop.
>
>My comments were about people who are volunteers of multiple volunteer
>agencies, and when a crisis occurs, have to support one agency and not
>all. For example, you are a "professional" volunteer, committing to
>the Tennessee State Militia, the Civil Air Patrol, ARES, MARS, and who
>knows what else. And your professional position as an ER LPN should be
>a high priority in your community. So when the claxon goes off, which
>way do you run? Which volunteer organization(s) are left holding the

>bag because Robesin overcommitted himself and really isn't super-human?
>
>
>> > Robesin has claimed that he can have me picked up on his say so as an
>> > LPN with a simple phone call from Tennessee. To another poster on
>> > RRAP, he claimed that "People who shoot off their mouths can have their
>> > tires slashed, rocks thrown through windows, and wives terrorized," but
>> > later clarified that all those bad things would be at someone else's
>> > hands.
>>
>>   Bigger sigh.
>
>Yeh. Big, big sigh. Maybe if you just quit posting such nonsense....

or admiting that you "exagerate"
>
>>   More of Brian's misquoting. I cited a news item some
>> years ago where exactly that thing occcured.
>
>Here's a hint, next time you cite a news item, present it as a cited
>news item and not as a threat. It's called "clarity," and you lack it.
>
>>   Now for having mentioned it, Brain insists that I have made thinly
>> veiled threats of a same nature.
>>
>>   An act of cowardice.
>
>I perceived a threat. In Robesin's own words, one has only to perceive
>a threat for there to be a threat.

that only applies to Robeson not his victums

Icertinaly precieved a threat when in 1998 he finished a long about
guns and marksmenship with "one shot one Kill even in illiopolis"
where I lived at the time. and ofcourse my father picking up the phone
and hearing someone say I am going to kil you mark" roudn the same was
in way threatening and calls to local postal office and police station
asking where I lived wasn't threatening

you were lucky steve that Illiopis was so poorly served by the Phone
service that you calls could only be traced to AC
>
>> > A well known Amateur Radio store advertising in QST, whose ham daughter
>> > was featured in the ad photo, was said to be "selling something" but
>> > not amateur equipment.
>>
>>   More deceit.
>>
>>   Brain...WHY do you lie so readily?
>
>Google provides.
>
>> > Robesin, whose father was a Sailor Army Recruiter (I swear thats not a

>> > typo), lays claim to seven hostile actions in the USMC, but who's only
>> > overseas assignment was Okinawa.
>>
>>   "Sailor Army Recruiter"...?!?!?
>>
>>   No Brain...let's get the FACTS right.
>
>Yes, yes, finally!!!
>
>> My father served on Active
>> Duty in the Untied States Navy during the Korean Conflict.
>
>>   He was later an Active Duty recuriter for the US Army Reserve.
>> Yes, Brain, SOME people DO serve in more than one branch of the Armed
>> Forces than one...
>
>than one...
>
>OK.

still looks looks sailor army requiter to me
>
>>   And no, Brain, Okinawa was NOT my "only overseas assignment".
>
>Then the only thing remaining is a small matter... PROOF.
>
>> > There's more, much more, but if I went on and on and on you'd probably
>> > think I was making it up. I'm not. Google provides.
>>
>>   Much of what you say is not "made up"...Just quoted out of context
>> or misattributed.
>>
>>   But mostly quoted out of context.
>
>Dig it up, "fatboy."
>
>> > > I've rubbed his nose in one
>> > > failed opinion after another.
>> >
>> > Yet it is your excrement on another man's genitals, according to your
>> > own original claims and subsequent quotes. Google provides, and you've
>> > requoted yourself numerous times.
>>
>>   I guess your English comprehension skills are as incompetent as
>> Morkie's.
>>
>>   That's not what I said. But you go right on ahead pretending it
>> is as long s you think no one else can see it....
>
>What scares me most isn't that you made a mistake in your grammar when
>posting that sick nonsense, it's that you posted the sick nonsense at
>all.
>

indeed he is frightening which is likely why people see him as
threatening

>It is grossly off topic and has no place in an amateur radio discussion
>newsgroup.

indeed grossly
>
>I certainly hope that Paul Schleck agrees.
>
>> > >   So...There's my $0.02. Do with it as you will, but I'd take a BIG
>> > > grain of salt with any traffic coming from "hot-ham-and-cheese", as you
>> > > are welcome to do with mine.
>> >
>> > Your $0.02 isn't worth two cents. Google provides.
>>
>>   Google provides evidence that any "opinions" uttered by you under
>> any one of your "anonymous" names needs to be taken with a grin of salt
>> the size of the Rock of Gibralter.
>
>>>>GRIN<<<

steve stop your wild boasts
>
>>   As usual.....
>>
>> Steve, K4YZ
>
>Heil says that people who cannot spell aren't worthy of leadership...
well that would be merely one reason not to elcet steve
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From 8425348988369594745
X-Google-Thread: fc2a5,106b259178bf17bd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal ham receiver
Date: 23 Dec 2006 20:53:13 GMT
Organization: The National Capital FreeNet
Lines: 78
Message-ID: <emk4vp$jsp$1@theodyn.ncf.ca>
References: <1166888452.256055.166010@48g2000cwx.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)

NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1166907193 20377 134.117.136.48 (23 Dec 2006 20:53:13 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 23 Dec 2006 20:53:13 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8398

(jimspeer@jimspeer.org) writes:

> I don't much like the receivers I've used in contemporary tranceivers
> -- the general coverage synthisized open front end ones. (I hasten to
> add I haven't used any of the $4000 rigs; can't afford them). But the
> ones I have used seem plagued with near-signal desensitization, front
> end overload, etc., and I suppose all that comes from putting the
> selectivity so far downstream.
>
> I'm almost tempted to get an old 75s4 and shut up, but I really don't
> need another room heater, so, instead, I'm thinking of building my own
> receiver along the lines laid down by the late Doug DeMaw in his _QRP
> Notebook_. Single conversion 160m superhet with Collins mechanical
> filters in the IF and a series of down-converters for the other bands.
> Anybody got any experience with the DeMaw Design?
>
> Jim, K5YUT
>

But then you're just recreating something that is open to problems.

That sort of scheme was used to get a constant tuning range over each band, and because synthesis wasn't easily applied.

But on anything other than the core band, you've got double conversion that moves the selectiving past two mixers. And unlike current up-conversion schemes, there is not even a crystal filter of some sort at the output of the first mixer.

Switch to an IF in the HF range, and you immediately eliminate most image problems. No fussing over the front end about that, and of course, you won't have to have the front end tracking the tuning oscillator.

Remember, a whole wave of amateur transceivers and receivers went to that sort of scheme. And unlike general coverage receivers, you don't have to worry about any problems due to the IF being in the tuning range, and you can think up various schemes to do the tuning since you don't have to cover the 30MHz.

YOu can stick with the modular theme, and thus build only for the bands you want or even build a band at a time. But instead of a whole converter, you'd have the preselector circuitry (and maybe an RF stage) and the variable oscillator for each band. Or build a good receiver up till the input of the mixer, and then figure out what comes next.

IN the sixties, that wave of single conversion to IFs in the MHz range used various schemes to deal with the local oscillator. Obviously some bands needed a frequency range that could easily be supplied by a variable oscillator without drift (and some of the rigs took that to the extreme and used the variable oscillator directly on 10metres). The problem with bandswitching the oscillator would of course be the issue of getting it to tune only 500KHz or so on each band (and any stability issues caused by the switching of the LC circuits).

Other rigs used pre-mixing, so the variable oscillator would always tune a fixed range, but it would be converted to the needed frequency with a mixer and crystal oscillator. One does have to watch out for spurs on the output, but it gets the extra mixer out of the signal path, and given a relative handful of 500KHz ham bands in the shortwave region, the cost of the crystals wasn't out of range (though maybe today..).

Then later, some rigs used PLLs. I can't remember if the Signal One used one, but certainly in the seventies they came along. Same basic idea as the premixer, but the PLL was the filter so the VCO directly fed the receiver's first mixer.

Rigs like the TS830S used a PLL for that same purpose, though they came up with a pretty fancy scheme to limit the number of crystals needed.

One of the things about receiver design is that the trends have often reflected limitations of the times. There may be a good reasons for doing things a certain way (such as adding a third conversion to a receiver so the BFO is on a different frequency from the one where the main gain is), but it may also mean they couldn't do anything better at the time.

Michael VE2BVW

From -8658274320888975717
X-Google-Thread: fc2a5,106b259178bf17bd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!
attbi_s21.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1166888452.256055.166010@48g2000cwx.googlegroups.com>
<emk4vp$jsp$1@theodyn.ncf.ca>
Subject: Re: Ideal ham receiver
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <aRhjh.189990$aJ.19731@attbi_s21>
NNTP-Posting-Host: 12.219.128.249

```
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1166911942 12.219.128.249 (Sat, 23 Dec 2006 22:12:22 GMT)
NNTP-Posting-Date: Sat, 23 Dec 2006 22:12:22 GMT
Organization: AT&T ASP.att.net
Date: Sat, 23 Dec 2006 22:12:22 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8399
```

> Then later, some rigs used PLLs. I can't remember if the Signal One
> used one, but certainly in the seventies they came along. Same basic
> idea as the premixer, but the PLL was the filter so the VCO directly
> fed the receiver's first mixer.

Michael VE2BVW

Well the CX-7 didn't use a PLL, but the CX-11 did. It was however only for generating a comb frequency to be used with premixing. The analog PTO's still tuned 3.1 to 4.1 MHz.

The main problem with up conversion is the hit you take on oscillator phase noise. These days, with the advent of the "H" mode mixer, oscillator phase noise and birdies are THE limiting factor in receiver compromise.

W4ZCB

```
From -3975074968931658408
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!uns-out.usenetserver.com!
news.usenetserver.com!pc03.usenetserver.com!DIALUPUSA.NET!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
From: Mike Monett <No@email.adr>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
<1166881126.250231.324840@80g2000cwy.googlegroups.com>
Organization: UTS
Message-ID: <Xns98A2B57EE13E8Noemailadr@208.49.80.251>
User-Agent: Xnews/5.04.25
X-Complaints-To: abuse@usenetserver.com
Date: Sat, 23 Dec 2006 17:51:47 -0500
Lines: 16
X-Trace: cd371458db3033fac6023432
Xref: g2news2.google.com rec.radio.amateur.homebrew:8400
```

jimspeer@jimspeer.org wrote:

> You can download free a long list of archaic technical books, including
> a number of ARRL Handbooks, at the following URL:
>
> http://www.pmillett.com/tecnical_books_online.htm

Some more here, plus some QEX

  http://info.awmn.net/users/images/stories/Library/RadioTheory/

Regards,

Mike Monett

```
From 2551228434962421246
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!48g2000cwx.googlegroups.com!not-for-
mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: 23 Dec 2006 15:27:01 -0800
Organization: http://groups.google.com
Lines: 13
Message-ID: <1166916421.565457.62980@48g2000cwx.googlegroups.com>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
   <1166804864.951127.150290@f1g2000cwa.googlegroups.com>
   <emh39o$pru$1@theodyn.ncf.ca>
NNTP-Posting-Host: 207.69.137.207
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166916427 3521 127.0.0.1 (23 Dec 2006 23:27:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 23 Dec 2006 23:27:07 +0000 (UTC)
In-Reply-To: <emh39o$pru$1@theodyn.ncf.ca>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 48g2000cwx.googlegroups.com; posting-host=207.69.137.207;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8401
```

Well, after much hair pulling and gnashing of teeth, I managed to download the 15th edition of Radio Handbook last night. No straight receivers that use tubes, though. Going to have to look at the math section to see if there's some way I can work up a schematic of my own. Thing is, math isn't my strong suit.

Also going to have a look at some of the older books. If worse comes to

worst, I know of a few places online where I can buy the tube that are
in the schematics I do have.

Ralph

```
From -1646564556600634571
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!80g2000cwy.googlegroups.com!not-for-
mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: 23 Dec 2006 15:42:13 -0800
Organization: http://groups.google.com
Lines: 34
Message-ID: <1166917333.449616.288050@80g2000cwy.googlegroups.com>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
   <458CBF06.6010500@invalid.invalid>
NNTP-Posting-Host: 207.69.137.207
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166917339 24531 127.0.0.1 (23 Dec 2006 23:42:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 23 Dec 2006 23:42:19 +0000 (UTC)
In-Reply-To: <458CBF06.6010500@invalid.invalid>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 80g2000cwy.googlegroups.com; posting-host=207.69.137.207;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8402
```

Doug Smith W9WI wrote:
> julian814 wrote:
> > All right, I'm hoping someone here can clue me into finding the one(s)
> > I want. What I need is a handbook that has schematics for tube
> > equipment circa the 1960's. I have a boxful of tubes from television
> > sets from that era, and I was hoping I could put together a receiver
> > from some of them. I do have the first volume of Impoverished Radio
> > Experimenter, which talks about using "newer" tubes in older
> > schematics, but the scant few Lindsay talks about aren't among the
> > tubes in my box.
>
> How complex of a receiver are you looking to build?

Nothing too complex, two tubes or so. What I want to build is something

that looks like it's from a 1950's Cold War era post apocalyptic story.
I definitely want to use tubes, and I have some headphones from that
era as well. The receiver has to be able to drive the headphones. They
are NOT crystal headphones.

>
> There are a PILE of simple tube circuits on
> http://www.intio.or.jp/jf10zl/index.html .
>
> Most of them use Japanese tubes (the site is in Japan, after all<g>) but
> I would suggest in many cases you can figure out what U.S. tubes are
> similar.

Fascinating, but I didn't see anything close to what I'm looking for.
Thanks anyway.

Ralph

From 5019678778374527886
X-Google-Thread: fc2a5,106b259178bf17bd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!elnk-atl-nf1!newsfeed.earthlink.net!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bigfe9.POSTED!
ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal ham receiver
References: <1166888452.256055.166010@48g2000cwx.googlegroups.com>
<emk4vp$jsp$1@theodyn.ncf.ca> <aRhjh.189990$aJ.19731@attbi_s21>
In-Reply-To: <aRhjh.189990$aJ.19731@attbi_s21>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 35
Message-ID: <Iqjjh.5070$_X.2844@bigfe9>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
okpbgeeoboblnbegdcgkefoiifloipflhebakmlfngoclfebmlkppbhcodhjhpilaahihelibegjblkbih
bbjoldfngcmehnpahakomchhfgbodkjjhkmcgcaokgfgda
NNTP-Posting-Date: Sat, 23 Dec 2006 19:00:40 EST
Organization: BellSouth Internet Group
Date: Sat, 23 Dec 2006 19:00:51 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8403

Harold E. Johnson wrote:

>> Then later, some rigs used PLLs. I can't remember if the Signal One
>> used one, but certainly in the seventies they came along. Same basic
>> idea as the premixer, but the PLL was the filter so the VCO directly
>> fed the receiver's first mixer.
>
> Michael VE2BVW
>
>
> Well the CX-7 didn't use a PLL, but the CX-11 did. It was however only for
> generating a comb frequency to be used with premixing. The analog PTO's
> still tuned 3.1 to 4.1 MHz.
>
> The main problem with up conversion is the hit you take on oscillator phase
> noise. These days, with the advent of the "H" mode mixer, oscillator phase
> noise and birdies are THE limiting factor in receiver compromise.
>
> W4ZCB
>
>

I've heard that DDS units do NOT have the phase noise problem that
conventional oscillators do. DDS does generate spurs, but if you can
find a DDS that will allow for a clock rate many times the desired
output frequency the spurs a far out of band. The Analog devices AD9954
family of DDS chips have a max clock rate of 400 mhz. If you do NOT use
the on board PLL multiplier and clock it externally from a good low
noise clock, you can overclock these chips to as much as 600 mhz!
So if you up convert to 70mhz you'd need a 100 mhz local oscillator at
10 meters. Thats 1/4 the clock (or 1/6 if over clocked).
With a 45 mhz first IF even better.

BTW I had an idea for a rig up converting to 6 meters as the first IF.
This would be dual conversion on the HF bands, though a crystal filter
at 6 meters for a fixed first IF would not be impossible here.

From -3147434419532777117
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bigfe9.POSTED!
ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
<458CBF06.6010500@invalid.invalid>
<1166917333.449616.288050@80g2000cwy.googlegroups.com>
In-Reply-To: <1166917333.449616.288050@80g2000cwy.googlegroups.com>

```
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 45
Message-ID: <nXjjh.5073$_X.3608@bigfe9>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
okpbgeeoboblnbeghjpmblnhfgccmhpdepbbmgojaahccfgimlkppbhcodhjhpilaahihelibegjblkbih
bbjoldfngcmehniflflgpogpcmfngmabfcddocofaaiphb
NNTP-Posting-Date: Sat, 23 Dec 2006 19:35:31 EST
Organization: BellSouth Internet Group
Date: Sat, 23 Dec 2006 19:35:42 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8404

julian814 wrote:
> Doug Smith W9WI wrote:
>> julian814 wrote:
>>> All right, I'm hoping someone here can clue me into finding the one(s)
>>> I want. What I need is a handbook that has schematics for tube
>>> equipment circa the 1960's. I have a boxful of tubes from television
>>> sets from that era, and I was hoping I could put together a receiver
>>> from some of them. I do  have the first volume of Impoverished Radio
>>> Experimenter, which talks about using "newer" tubes in older
>>> schematics, but the scant few Lindsay talks about aren't among the
>>> tubes in my box.
>> How complex of a receiver are you looking to build?
>
> Nothing too complex, two tubes or so. What I want to build is something
> that looks like it's from a 1950's Cold War era post apocalyptic story.
> I definitely want to use tubes, and I have some headphones from that
> era as well. The receiver has to be able to drive the headphones. They
> are NOT crystal headphones.
>
>> There are a PILE of simple tube circuits on
>> http://www.intio.or.jp/jf10zl/index.html .
>>
>> Most of them use Japanese tubes (the site is in Japan, after all<g>) but
>> I would suggest in many cases you can figure out what U.S. tubes are
>> similar.
>
> Fascinating, but I didn't see anything close to what I'm looking for.
> Thanks anyway.
>
>
> Ralph
>
I don't recall the url but I remember a 2-3 tube receiver from the 40's
that might be what you want.  It was a simple superhet with a
regenerative detector.  Used a 6k8 as the converter and a 6c8g as the
detector / audio.  It drove a pair of magnetic phones.  The set used two
plugin coils, one for the antenna circuit and one for the oscillator.
Each antenna coil served double duty as the oscillator coil on the next
```

higher band (moved the antenna coil from the antenna coil socket to the oscillator coil socket and put a new coil in the antenna coil socket to change bands). There is a variation that added a 6sj7 as the detector and the other half of the 6c8 became a bfo.

This first appeared in Feb 1941 QST. The details are on the web someplace, google for it.

From 945102383969924309
X-Google-Thread: fc2a5,a1e7d9eaefd32d34
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!bigfeed2.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bigfe9.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SA605 or SA615 source
References: <em7mqd$mcg$3@puck.litech.org> <4-OdnVsClbqc-RrYnZ2dnUVZ_urinZ2d@web-ster.com>
In-Reply-To: <4-OdnVsClbqc-RrYnZ2dnUVZ_urinZ2d@web-ster.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 14
Message-ID: <01kjh.5074$_X.4572@bigfe9>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
okpbgeeoboblnbegleandpdlingcfkofpjjmfngpjbjdgfmmmlkppbhcodhjhpilaahihelibegjblkbihbbjoldfngcmehnehhckflagfammpmlnocipjgfdkaiaaeo
NNTP-Posting-Date: Sat, 23 Dec 2006 19:41:32 EST
Organization: BellSouth Internet Group
Date: Sat, 23 Dec 2006 19:41:44 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8405

Tim Wescott wrote:
> Mike Andrews wrote:
>> Anyone got a source for SA605 or SA615? I want to build the 1-chip
>> receiver that Steve Hageman describes in EDN Access of 25 September
>> 1997, but am having problems finding the chips. Maybe I'm looking past
>> them.
> Nominally these are Phillips parts (now NXE or whatever). They use the
> 'SA' 'NE' etc., for indicating temperature ranges -- I know I've had
> trouble finding '602s with one prefix, and no problem with the other.
>

I recall reading that the SA602/605's were discontinued and replaced by the '612/'615. Because of demand some of these were relabeled and sold as 602/605's to satisfy customers who didn't believe that the parts were interchangeable. They are.

```
From 3651685465946577008
X-Google-Thread: 108122,85cba5eb715048e0
X-Google-Thread: fc2a5,85cba5eb715048e0
X-Google-Attributes: gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bigfe9.POSTED!
ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: Parts with FREE shipping
References: <Ihxih.2059$X72.1109@newsread3.news.pas.earthlink.net>
In-Reply-To: <Ihxih.2059$X72.1109@newsread3.news.pas.earthlink.net>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 20
Message-ID: <Q7kjh.5075$_X.2028@bigfe9>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
okpbgeeoboblnbegmoacjccfbefmnjkglhfokggfcodgcdmimlkppbhcodhjhpilaahihelibegjblkbih
bbjoldfngcmehnfngjmhgipcdbeicbegjhegfjmpeppmjp
NNTP-Posting-Date: Sat, 23 Dec 2006 19:48:48 EST
Organization: BellSouth Internet Group
Date: Sat, 23 Dec 2006 19:49:00 -0500
Xref: g2news2.google.com rec.radio.amateur.equipment:7674
rec.radio.amateur.homebrew:8406

Brian wrote:
> Hey all,
>
> I'm trying to clean out the parts cabinet. So free shipping on all orders
> until I say otherwise.
>
> My parts are new, but old stock spurplus. They are not pulls, and they have
> never been used.  Most are gathered at hamfests, and some are gathered from
> eBay, some from surplus auctions, some just show up.
>
> See the website below for details.
>
> http://www.hamradparts.com
>
> 73 de KB9BVN
>
>
>
Don't need anything right now, but I'm bookmarking your web site for
future reference.  Even with shipping your seem reasonable.
```

```
From 759827677362359452
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a3g2000cwd.googlegroups.com!not-for-
mail
From: hot-ham-and-cheese@hotmail.com
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: Tri-Faced Robesin Strikes Out Again
Date: 23 Dec 2006 16:57:31 -0800
Organization: http://groups.google.com
Lines: 38
Message-ID: <1166921851.172786.324130@a3g2000cwd.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
   <72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
   <1166788359.491358.56780@a3g2000cwd.googlegroups.com>
   <1166792384.673664.20000@80g2000cwy.googlegroups.com>
   <1166845903.893439.54470@80g2000cwy.googlegroups.com>
   <if1g5.fhf.19.1@news.alt.net>
NNTP-Posting-Host: 4.225.100.210
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166921857 15909 127.0.0.1 (24 Dec 2006 00:57:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 24 Dec 2006 00:57:37 +0000 (UTC)
In-Reply-To: <if1g5.fhf.19.1@news.alt.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a3g2000cwd.googlegroups.com; posting-host=4.225.100.210;
   posting-account=mMyuWQ0AAAANPpX1wK2NRuuQfAjm_kIo
Xref: g2news2.google.com rec.radio.amateur.policy:60075
rec.radio.amateur.misc:27340 rec.radio.cb:23931 rec.radio.amateur.homebrew:8407


Roger wrote:
> <hot-ham-and-cheese@hotmail.com> wrote in message
> news:1166845903.893439.54470@80g2000cwy.googlegroups.com...
> >
> > K4YZ wrote:
> > > hot-ham-and-cheese@hotmail.com wrote (N0IMD):
> > > > Bill Turner wrote:
> > > > > Please folks, do not reply to these off topic posts.
> > > > >
> > > > > If these idiots never get any replies, they will eventually give up
```

> > > > > and go away.
> > > > >
> > > > > Thanks,
> > > > >
> > > > > Bill, W6WRT
> > > > >
> > > > Bill, I respectfully disagree. Your strategy works with normal
> people.
> > > > Robesin isn't normal, and he'll only go away when his ISP is shut
> off.
> > > > He's the originator of the infamous "MARS >>>IS<<< Amareur Radio"
> > > > declaration and the excrement eating thread. At the moment, he's got
> > > > himself wrapped up in the flag, so he's untouchable even if off-topic.
> > >
>
> Of course let us not leave Mark out of the insanity. Mark will continue to
> crap upon as many posts as he can, whether he is asked to join or not.

If you hadn't noticed, Mark is "Out-Assholing" Robesin. He's doing a
damned fine job of it, too.

> Mark is far from "normal", too. Billy Smith already knows that....

Everyone has issues, but there's no need for Robesin to scour the
internet and bring stuff back to RRAP that has no place on RRAP. But
thanks for asking.

From -4828377766367001555
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
Message-ID: <458DD846.9010102@invalid.invalid>
From: Doug Smith W9WI <w9wi@invalid.invalid>
Reply-To: w9wi@invalid.invalid
Organization: Ham Radio W9WI
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.0.1) Gecko/20020830
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
<458CBF06.6010500@invalid.invalid>
<1166917333.449616.288050@80g2000cwy.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 35
Date: Sun, 24 Dec 2006 01:30:49 GMT
NNTP-Posting-Host: 4.153.65.93

```
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1166923849 4.153.65.93 (Sat, 23 Dec 2006
17:30:49 PST)
NNTP-Posting-Date: Sat, 23 Dec 2006 17:30:49 PST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8408

julian814 wrote:
>>How complex of a receiver are you looking to build?
>
> Nothing too complex, two tubes or so. What I want to build is something
> that looks like it's from a 1950's Cold War era post apocalyptic story.
> I definitely want to use tubes, and I have some headphones from that
> era as well. The receiver has to be able to drive the headphones. They
> are NOT crystal headphones.
>
>>There are a PILE of simple tube circuits on
>>http://www.intio.or.jp/jf10zl/index.html .
>>
>>Most of them use Japanese tubes (the site is in Japan, after all<g>) but
>>I would suggest in many cases you can figure out what U.S. tubes are
>>similar.
>
> Fascinating, but I didn't see anything close to what I'm looking for.
> Thanks anyway.

I would suggest this one ( http://www.intio.or.jp/jf10zl/17ew8.htm )
would be a good starting point.  It should work with most standard
double-triodes (12AX7, 12AT7, 12AU7, 12SN7, etc.) or two single triodes.
  (6C4, 6J5, etc.).

This one ( http://www.intio.or.jp/jf10zl/12au70v1.htm ) could also be
adapted - use more than 12 volts on the plates and put a ~5k:8-ohm
transformer in the plate of the second tube (instead of the R-C network)
and it should do what you're trying to do.



--
Doug Smith W9WI
Pleasant View (Nashville), TN  EM66
http://www.w9wi.com




From -579068776848531612
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-
mail
```

From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.homebrew
Subject: Re: Tri-Faced Robesin Strikes Out Again
Date: Sat, 23 Dec 2006 20:38:03 -0500
Message-ID: <udmro2hcabmpd58n7tpkb4t7o32f04ubkv@4ax.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
<1166788359.491358.56780@a3g2000cwd.googlegroups.com>
<1166792384.673664.20000@80g2000cwy.googlegroups.com>
<1166845903.893439.54470@80g2000cwy.googlegroups.com>
<if1g5.fhf.19.1@news.alt.net>
<1166921851.172786.324130@a3g2000cwd.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 46
NNTP-Posting-Date: 24 Dec 2006 00:43:38 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:60078
rec.radio.amateur.misc:27341 rec.radio.cb:23934 rec.radio.amateur.homebrew:8409

On 23 Dec 2006 16:57:31 -0800, hot-ham-and-cheese@hotmail.com wrote:

>
>Roger wrote:
>> <hot-ham-and-cheese@hotmail.com> wrote in message
>> news:1166845903.893439.54470@80g2000cwy.googlegroups.com...
>> >
>> > K4YZ wrote:
>> > > hot-ham-and-cheese@hotmail.com wrote (N0IMD):
>> > > > Bill Turner wrote:
>> > > > > Please folks, do not reply to these off topic posts.
>> > > > >
>> > > > > If these idiots never get any replies, they will eventually give up
>> > > > > and go away.
>> > > > >
>> > > > > Thanks,
>> > > > >
>> > > > > Bill, W6WRT
>> > > >
>> > > > Bill, I respectfully disagree. Your strategy works with normal
>> people.
>> > > > Robesin isn't normal, and he'll only go away when his ISP is shut
>> off.
>> > > > He's the originator of the infamous "MARS >>>IS<<< Amareur Radio"
>> > > > declaration and the excrement eating thread. At the moment, he's got
>> > > > himself wrapped up in the flag, so he's untouchable even if off-topic.
>> > >
>>
>> Of course let us not leave Mark out of the insanity. Mark will continue to

```
>> crap upon as many posts as he can, whether he is asked to join or not.
>
>If you hadn't noticed, Mark is "Out-Assholing" Robesin.  He's doing a
>damned fine job of it, too.

thank you I am only sorry that Robeson decided to provide the
motivation
>
>> Mark is far from "normal", too. Billy Smith already knows that....
>
>Everyone has issues, but there's no need for Robesin to scour the
>internet and bring stuff back to RRAP that has no place on RRAP.  But
>thanks for asking.

indeed the last person to accuse me of being normal I chenlanged to
deul
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From 6329974520734086388
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.kjsl.com!ncf.ca!
FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: 24 Dec 2006 01:41:42 GMT
Organization: The National Capital FreeNet
Lines: 48
Message-ID: <emklsm$s6q$1@theodyn.ncf.ca>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
<458CBF06.6010500@invalid.invalid>
<1166917333.449616.288050@80g2000cwy.googlegroups.com> <nXjjh.5073$_X.3608@bigfe9>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1166924502 28890 134.117.136.48 (24 Dec 2006 01:41:42 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 24 Dec 2006 01:41:42 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8410

ken scharf (wa2mzeNOSPAMBOTS@bellsouth.net) writes:
> julian814 wrote:
>> Doug Smith W9WI wrote:
>>> julian814 wrote:
>>>> All right, I'm hoping someone here can clue me into finding the one(s)
>>>> I want. What I need is a handbook that has schematics for tube
>>>> equipment circa the 1960's. I have a boxful of tubes from television
```

```
>>>> sets from that era, and I was hoping I could put together a receiver
>>>> from some of them. I do  have the first volume of Impoverished Radio
>>>> Experimenter, which talks about using "newer" tubes in older
>>>> schematics, but the scant few Lindsay talks about aren't among the
>>>> tubes in my box.
>>> How complex of a receiver are you looking to build?
>>
>> Nothing too complex, two tubes or so. What I want to build is something
>> that looks like it's from a 1950's Cold War era post apocalyptic story.
>> I definitely want to use tubes, and I have some headphones from that
>> era as well. The receiver has to be able to drive the headphones. They
>> are NOT crystal headphones.
>>
>>> There are a PILE of simple tube circuits on
>>> http://www.intio.or.jp/jf10zl/index.html .
>>>
>>> Most of them use Japanese tubes (the site is in Japan, after all<g>) but
>>> I would suggest in many cases you can figure out what U.S. tubes are
>>> similar.
>>
>> Fascinating, but I didn't see anything close to what I'm looking for.
>> Thanks anyway.
>>
>>
>> Ralph
>>
> I don't recall the url but I remember a 2-3 tube receiver from the 40's
> that might be what you want.  It was a simple superhet with a
> regenerative detector.  Used a 6k8 as the converter and a 6c8g as the
> detector / audio.

They were called "supergainers" and apparently Frank Jones, of later
VHF fame, was a big proponent of them in the thirties.

The earlier Radio Handbook on that webpage someone posted about would
have them, the 1936 version or whatever.  I didn't suggest downloading
that one since I had the impression the tubes available to the original
poster were miniature, and the book predates those.

    Michael  VE2BVW
k



From -3870097834729762830
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!79g2000cws.googlegroups.com!not-for-
mail
From: hot-ham-and-cheese@hotmail.com
```

```
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: Tri-Faced Robesin Strikes Out Again
Date: 23 Dec 2006 18:10:04 -0800
Organization: http://groups.google.com
Lines: 227
Message-ID: <1166926204.161816.141930@79g2000cws.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
   <72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
   <1166788359.491358.56780@a3g2000cwd.googlegroups.com>
   <1166792384.673664.20000@80g2000cwy.googlegroups.com>
   <1166845903.893439.54470@80g2000cwy.googlegroups.com>
   <hqsqo2958ebb4vik4oaksr427og6lefthd@4ax.com>
NNTP-Posting-Host: 4.225.100.210
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166926210 25999 127.0.0.1 (24 Dec 2006 02:10:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 24 Dec 2006 02:10:10 +0000 (UTC)
In-Reply-To: <hqsqo2958ebb4vik4oaksr427og6lefthd@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 79g2000cws.googlegroups.com; posting-host=4.225.100.210;
   posting-account=mMyuWQ0AAAANPpX1wK2NRuuQfAjm_kIo
Xref: g2news2.google.com rec.radio.amateur.policy:60082
rec.radio.amateur.misc:27343 rec.radio.cb:23936 rec.radio.amateur.homebrew:8411


Mark@kb9rqz.aprs wrote:
> On 22 Dec 2006 19:51:43 -0800, hot-ham-and-cheese@hotmail.com wrote:
> >K4YZ wrote:
> >> hot-ham-and-cheese@hotmail.com wrote (N0IMD):
> >> > Bill Turner wrote:
> >> > > Please folks, do not reply to these off topic posts.
> >> > >
> >> > > If these idiots never get any replies, they will eventually give up
> >> > > and go away.
> >> > >
> >> > > Thanks,
> >> > >
> >> > > Bill, W6WRT
> >> >
> >> > Bill, I respectfully disagree.  Your strategy works with normal people.
> >> >  Robesin isn't normal, and he'll only go away when his ISP is shut off.
> >> >  He's the originator of the infamous "MARS >>>IS<<< Amareur Radio"
> >> > declaration and the excrement eating thread.  At the moment, he's got
> >> > himself wrapped up in the flag, so he's untouchable even if off-topic.
> >>
> >>     Bill...Welcome to the "logic" of Brian P Burke, N0IMD, hiding
> >> behind one of his "anonymous" screen names as "hot--ham-and-cheese"
```

> >
> >Bill, this is the first Robesin reply in years where he did not forge
> >the attributes to read "snot-scam-and sleaze..." Robesin is trying to
> >win you over by playing nice this time. Unfortunately, the rest of us
> >know his game.
>
> ineed I had missed that

I do my best to change the attributes back to original.

> although in fair when he conducting a MASS vandalism of my post he
> sometimes misses doing that

He's just lazy.

> >>   Brian has participated, along with Leonard H Anderson (unlicensed)
> >> and Mark Morgan (KB9RQZ) in an anti-Amateur Radio tirades and has
> >> fallen flat on his face in one prognostication about Amateur Radio
> >> after another. He doesn't like it that I've been right.
> >
> >Robesin is right? When???
> >
> >Robesin attacks when I reposted an article taken directly from the ARRL
> >web site quoting an ARRL Vice President >in its entirety< stating that
> >amateurs have an overblown sense of self-importance.
>
> you leave that according to steve being anti steve in the slightest
> way is being anti Ham

And anti-veteran and anti-ARRL and anti-Red Cross and anti-Morse Code
Test...

> >>   One of Brain's favorite tactics is to take comments out-of-context
> >> and then try to represent them as the entire "gist" of the comments.
> >
> >One of Robesin's favorite tactics is to make homosexual inuendo or
> >claims of pedophilia when he encounters someone who disagrees with him.
> >
>
> or tax evsasion welfare fraud or that one defrauded the govt of one
> rightfull salery (that was his constant attack on Frank)

Robesin draws a disability pension, yet he is an ER nurse. How can an
ER Nurse be disabled?

> >>   My "MARS >>>IS<<< AMATEUR RADIO" comment refered to the fact that
> >> the MARS program was staffed almost entirely by Amateur Radio licensees
> >> and was in the very spirit of what it means to be an Amateur Radio
> >> licensee...
> >
> >I pointed out that MARS absolutely has non-amateur leadership,

> >non-amateur participants, and an entirely non-amateur mission. Hell,
> >Robesin claims to have been chopped to an NMC MARS slot on Okinawa - as
> >an active duty, non-amateur participant. Yet he continues with his
> >"Sorry Hans, MARS >>>IS<<< Amateur Radio" nonsense. Didn't even know
> >what the MOD was. He tried pulling this stunt before he realized that
> >I had MARS experience.
>
> he tries lots of stunts still no sign he knows anything about the the
> uquipmwnt he would have in Marine Stint

Plug and play avionics. He couldn't even name that equipment, and it was his job.

> >> He doesn't want to repeat THAT part since it wouldn't serve
> >> his purposes. (to try and embarrass me)
> >
> >Except that I was an actual MARS affiliate and knew what I was talking
> >about. You didn't. Still don't.
>
> he might have been in MARS , which does not mean he understood anything
> about though

He probably just liked listening to the wives on the MARS phone patches...

Anytime anything starts to go wrong for Robesin, he has to get to the wives...

He started in with Len's wife, then your wife, then my wife, then his gratis UP attorney's wife...

> >>   He also claims that I am repsonsible for the "excrement eating"
> >> thread. That's a blatant lie. His "friend", Mark Morgan, KB9RQZ, is
> >> SOLELY RESPONSIBLE for the authorship of those subject lines and use of
> >> profanity. You won't see my subject lines repeating it..
> >
> >Sorry Robesin, but you are the one who posted the "excrement eating"
> >filth, and keep reposting your quote. Unbelievable, but Google
> >provides.
>
> I believe any sickness is possible from robeson

Something's wrong with him.

> >>   Brain, of course, has NEVER owned up to any one of his own
> >> misrepresentatiuons of Amateur Radio.
> >
> >I have opinions but Robesin doesn't allow dissenting opinions.
> >Opinions that differ from his are "LIES."
>
> and proof that the hold ing is ANTI Ham

AntiChrist.

> >> He has made ludicrous claims
> >> that have failed to meet any statndard of proof or substance, including
> >> any one of several claims of having been a DX station,
> >
> >David Heil/K8MN has me confirmed at least twice. Robesin knows this,
> >therefore Robesin lies.
>
> I guess there still musst specail rule for the MMM

I'll bust them every time when they try to play it.

> >> misrepresentations about MARS, RACES, ARES, and other poorly
> >> conceptualized opinions that have fallen by the wayside as failing the
> >> test of evidence.
> >
> >After it was obvious from one regular on RRAP that his ARES group was
> >unable to fully support an upcoming American Red Cross exercise,
> >Robesin was asked to write a duty schedule for the exercise. The
> >stated requirements were three 3 operators on duty per shift. He
> >shorted the 1st eight hours of the exercise by all three personnel. He
> >claims it was covered, but the supported agency was not supported at
> >all. The subsequent shifts were shorted from one to two operators per
> >shift. Robesin claims that ARES can support all agency needs even when
> >they lack enough volunteers. Amateur Operators can perform Super-Human
> >feats, OR the ARC is just an 8AM - 5PM agency.
> >
> >>   Everyone's entitled to their opinions.
> >
> >Not true. Hot-ham is not entitled to an opinion, if Robesin has
> >anything to say about it.
>
> nor I am Mark Morgan nor is Len Anderson or Todd or Frank or anyone
> that dares oppose him

True enough.

> >> Brain's opinions of me are
> >> obviously low as he, despite having allegedly been a veteran himself,
> >> are anti-veteran and anti-volunteer.
> >
> >My opinions of Robesin are spot on.
> >
> >In addition to slinging accusations of homosexual and pedophilia at
> >those who disagree with him, I am now a veteran-hater and a
> >volunteer-hater. Nevermind that I am a veteran and a volunteer.
>
> the same apply to me a Veteran although I do not volunteer outside
> the Home (taking care of my Father who is terminal ill come first of
> course this makes of all thing to steve an elder abuser) I do support
> them

Robesin may have been out playing CAP Commando when he should have been

```
home taking care of his own.

> >Robesin has claimed that he can have me picked up on his say so as an
> >LPN with a simple phone call from Tennessee.  To another poster on
> >RRAP, he claimed that "People who shoot off their mouths can have their
> >tires slashed, rocks thrown through windows, and wives terrorized," but
> >later clarified that all those bad things would be at someone else's
> >hands.
> >
> >A well known Amateur Radio store advertising in QST, whose ham daughter
> >was featured in the ad photo, was said to be "selling something" but
> >not amateur equipment.
> >
> >Robesin, whose father was a Sailor Army Recruiter (I swear thats not a
> >typo),  lays claim to seven hostile actions in the USMC, but who's only
> >overseas assignment was Okinawa.
>
> check bio qrz N8DOS I believe on the sailor army recruter

Will do.

> >There's more, much more, but if I went on and on and on you'd probably
> >think I was making it up.  I'm not.  Google provides.
> >
> >> I've rubbed his nose in one
> >> failed opinion after another.
> >
> >Yet it is your excrement on another man's genitals, according to your
> >own original claims and subsequent quotes.  Google provides, and you've
> >requoted yourself numerous times.
>
> he can't face any fact

He must face his own excrement.

> >>      So...There's my $0.02.  Do with it as you will, but I'd take a BIG
> >> grain of salt with any traffic coming from "hot-ham-and-cheese", as you
> >> are welcome to do with mine.
> >>
> >> 73
> >>
> >> Steve, K4YZ
> >
> >Your $0.02 isn't worth two cents.  Google provides.



From 8205556921096282642
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: Tri-Faced Robesin Strikes Out Again
Date: Sat, 23 Dec 2006 22:37:06 -0500
Message-ID: <l5tro29ip4ja8rq6t6mvf8gr490h5vogab@4ax.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
<1166788359.491358.56780@a3g2000cwd.googlegroups.com>
<1166792384.673664.20000@80g2000cwy.googlegroups.com>
<1166845903.893439.54470@80g2000cwy.googlegroups.com>
<hqsqo2958ebb4vik4oaksr427og6lefthd@4ax.com>
<1166926204.161816.141930@79g2000cws.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 253
NNTP-Posting-Date: 24 Dec 2006 02:42:53 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:60091
rec.radio.amateur.misc:27345 rec.radio.cb:23942 rec.radio.amateur.homebrew:8412

On 23 Dec 2006 18:10:04 -0800, hot-ham-and-cheese@hotmail.com wrote:

>
>Mark@kb9rqz.aprs wrote:
>> On 22 Dec 2006 19:51:43 -0800, hot-ham-and-cheese@hotmail.com wrote:
>> >K4YZ wrote:
>> >> hot-ham-and-cheese@hotmail.com wrote (N0IMD):
>> >> > Bill Turner wrote:
>> >> > > Please folks, do not reply to these off topic posts.
>> >> > >
>> >> > > If these idiots never get any replies, they will eventually give up
>> >> > > and go away.
>> >> > >
>> >> > > Thanks,
>> >> > >
>> >> > > Bill, W6WRT
>> >> >
>> >> > Bill, I respectfully disagree.  Your strategy works with normal people.
>> >> >  Robesin isn't normal, and he'll only go away when his ISP is shut off.
>> >> >  He's the originator of the infamous "MARS >>>IS<<< Amareur Radio"
>> >> > declaration and the excrement eating thread.  At the moment, he's got
>> >> > himself wrapped up in the flag, so he's untouchable even if off-topic.
>> >>
>> >>     Bill...Welcome to the "logic" of Brian P Burke, N0IMD, hiding
>> >> behind one of his "anonymous" screen names as "hot--ham-and-cheese"
>> >
```

>> >Bill, this is the first Robesin reply in years where he did not forge
>> >the attributes to read "snot-scam-and sleaze..." Robesin is trying to
>> >win you over by playing nice this time. Unfortunately, the rest of us
>> >know his game.
>>
>> ineed I had missed that
>
>I do my best to change the attributes back to original.
>
>> although in fair when he conducting a MASS vandalism of my post he
>> sometimes misses doing that
>
>He's just lazy.

lazy and determined not to allow facts to get in the way of his raving
>
>> >>   Brian has participated, along with Leonard H Anderson (unlicensed)
>> >> and Mark Morgan (KB9RQZ) in an anti-Amateur Radio tirades and has
>> >> fallen flat on his face in one prognostication about Amateur Radio
>> >> after another. He doesn't like it that I've been right.
>> >
>> >Robesin is right? When???
>> >
>> >Robesin attacks when I reposted an article taken directly from the ARRL
>> >web site quoting an ARRL Vice President >in its entirety< stating that
>> >amateurs have an overblown sense of self-importance.
>>
>> you leave that according to steve being anti steve in the slightest
>> way is being anti Ham
>
>And anti-veteran and anti-ARRL and anti-Red Cross and anti-Morse Code
>Test...

steve is a very negitive person
>
>
>
>> >>   One of Brain's favorite tactics is to take comments out-of-context
>> >> and then try to represent them as the entire "gist" of the comments.
>> >
>> >One of Robesin's favorite tactics is to make homosexual inuendo or
>> >claims of pedophilia when he encounters someone who disagrees with him.
>> >
>>
>> or tax evsasion welfare fraud or that one defrauded the govt of one
>> rightfull salery (that was his constant attack on Frank)
>
>Robesin draws a disability pension, yet he is an ER nurse. How can an
>ER Nurse be disabled?

It seems as unlikely as his sailor army requuiter story
>
>> >>   My "MARS >>>IS<<< AMATEUR RADIO" comment refered to the fact that

>> >> the MARS program was staffed almost entirely by Amateur Radio licensees
>> >> and was in the very spirit of what it means to be an Amateur Radio
>> >> licensee...
>> >
>> >I pointed out that MARS absolutely has non-amateur leadership,
>> >non-amateur participants, and an entirely non-amateur mission. Hell,
>> >Robesin claims to have been chopped to an NMC MARS slot on Okinawa - as
>> >an active duty, non-amateur participant. Yet he continues with his
>> >"Sorry Hans, MARS >>>IS<<< Amateur Radio" nonsense. Didn't even know
>> >what the MOD was. He tried pulling this stunt before he realized that
>> >I had MARS experience.
>>
>> he tries lots of stunts still no sign he knows anything about the the
>> uquipmwnt he would have in Marine Stint
>
>Plug and play avionics. He couldn't even name that equipment, and it
>was his job.

of course can h e name much in Ham radio as well

>
>> >> He doesn't want to repeat THAT part since it wouldn't serve
>> >> his purposes. (to try and embarrass me)
>> >
>> >Except that I was an actual MARS affiliate and knew what I was talking
>> >about. You didn't. Still don't.
>>
>> he might have been in MARS , which does not mean he understood anything
>> about though
>
>He probably just liked listening to the wives on the MARS phone
>patches...
>
>Anytime anything starts to go wrong for Robesin, he has to get to the
>wives...
>
>He started in with Len's wife, then your wife, then my wife, then his
>gratis UP attorney's wife...

and he is married man that claims to straight and momogmous which
seesm to be another of his lies

>
>> >>   He also claims that I am repsonsible for the "excrement eating"
>> >> thread. That's a blatant lie. His "friend", Mark Morgan, KB9RQZ, is
>> >> SOLELY RESPONSIBLE for the authorship of those subject lines and use of
>> >> profanity. You won't see my subject lines repeating it..
>> >
>> >Sorry Robesin, but you are the one who posted the "excrement eating"
>> >filth, and keep reposting your quote. Unbelievable, but Google
>> >provides.
>>
>> I believe any sickness is possible from robeson

>
>Something's wrong with him.

lots of things I suspect
>
>> >>   Brain, of course, has NEVER owned up to any one of his own
>> >> misrepresentatiuons of Amateur Radio.
>> >
>> >I have opinions but Robesin doesn't allow dissenting opinions.
>> >Opinions that differ from his are "LIES."
>>
>> and proof that the hold ing is ANTI Ham
>
>AntiChrist.

yep aintichrist anti american .....
>
>> >> He has made ludicrous claims
>> >> that have failed to meet any statndard of proof or substance, including
>> >> any one of several claims of having been a DX station,
>> >
>> >David Heil/K8MN has me confirmed at least twice. Robesin knows this,
>> >therefore Robesin lies.
>>
>> I guess there still musst specail rule for the MMM
>
>I'll bust them every time when they try to play it.

indeed which will keep us busy awhile
>
>> >> misrepresentations about MARS, RACES, ARES, and other poorly
>> >> conceptualized opinions that have fallen by the wayside as failing the
>> >> test of evidence.
>> >
>> >After it was obvious from one regular on RRAP that his ARES group was
>> >unable to fully support an upcoming American Red Cross exercise,
>> >Robesin was asked to write a duty schedule for the exercise. The
>> >stated requirements were three 3 operators on duty per shift. He
>> >shorted the 1st eight hours of the exercise by all three personnel. He
>> >claims it was covered, but the supported agency was not supported at
>> >all. The subsequent shifts were shorted from one to two operators per
>> >shift. Robesin claims that ARES can support all agency needs even when
>> >they lack enough volunteers. Amateur Operators can perform Super-Human
>> >feats, OR the ARC is just an 8AM - 5PM agency.
>> >
>> >>   Everyone's entitled to their opinions.
>> >
>> >Not true. Hot-ham is not entitled to an opinion, if Robesin has
>> >anything to say about it.
>>
>> nor I am Mark Morgan nor is Len Anderson or Todd or Frank or anyone
>> that dares oppose him
>

>True enough.
>
>> >> Brain's opinions of me are
>> >> obviously low as he, despite having allegedly been a veteran himself,
>> >> are anti-veteran and anti-volunteer.
>> >
>> >My opinions of Robesin are spot on.
>> >
>> >In addition to slinging accusations of homosexual and pedophilia at
>> >those who disagree with him, I am now a veteran-hater and a
>> >volunteer-hater. Nevermind that I am a veteran and a volunteer.
>>
>> the same apply to me a Veteran although I do not volunteer outside
>> the Home (taking care of my Father who is terminal ill come first of
>> course this makes of all thing to steve an elder abuser) I do support
>> them
>
>Robesin may have been out playing CAP Commando when he should have been
>home taking care of his own.

indeed although given his attitudes that may the most mercifull he
does for his family :neglect them
>
>> >Robesin has claimed that he can have me picked up on his say so as an
>> >LPN with a simple phone call from Tennessee. To another poster on
>> >RRAP, he claimed that "People who shoot off their mouths can have their
>> >tires slashed, rocks thrown through windows, and wives terrorized," but
>> >later clarified that all those bad things would be at someone else's
>> >hands.
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>>
>> check bio qrz N8DOS I believe on the sailor army recruter
>
>Will do.
>
>> >There's more, much more, but if I went on and on and on you'd probably
>> >think I was making it up. I'm not. Google provides.
>> >
>> >> I've rubbed his nose in one
>> >> failed opinion after another.
>> >
>> >Yet it is your excrement on another man's genitals, according to your
>> >own original claims and subsequent quotes. Google provides, and you've
>> >requoted yourself numerous times.
>>
>> he can't face any fact

```
>
>He must face his own excrement.

I think he is deterermend to avoid it
>
>> >>      So...There's my $0.02.  Do with it as you will, but I'd take a BIG
>> >> grain of salt with any traffic coming from "hot-ham-and-cheese", as you
>> >> are welcome to do with mine.
>> >>
>> >> 73
>> >>
>> >> Steve, K4YZ
>> >
>> >Your $0.02 isn't worth two cents.  Google provides.
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -3935630093950588509
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!79g2000cws.googlegroups.com!not-for-
mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: 24 Dec 2006 07:01:52 -0800
Organization: http://groups.google.com
Lines: 25
Message-ID: <1166972512.870892.49690@79g2000cws.googlegroups.com>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
   <458CBF06.6010500@invalid.invalid>
   <1166917333.449616.288050@80g2000cwy.googlegroups.com>
   <nXjjh.5073$_X.3608@bigfe9>
   <emklsm$s6q$1@theodyn.ncf.ca>
NNTP-Posting-Host: 207.69.137.15
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166972518 1482 127.0.0.1 (24 Dec 2006 15:01:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 24 Dec 2006 15:01:58 +0000 (UTC)
In-Reply-To: <emklsm$s6q$1@theodyn.ncf.ca>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 79g2000cws.googlegroups.com; posting-host=207.69.137.15;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8413
```

Michael Black wrote:
> ken scharf (wa2mzeNOSPAMBOTS@bellsouth.net) writes:
> > I don't recall the url but I remember a 2-3 tube receiver from the 40's
> > that might be what you want. It was a simple superhet with a
> > regenerative detector. Used a 6k8 as the converter and a 6c8g as the
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>
> They were called "supergainers" and apparently Frank Jones, of later
> VHF fame, was a big proponent of them in the thirties.
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> have them, the 1936 version or whatever. I didn't suggest downloading
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> poster were miniature, and the book predates those.

Thanks, Mike, Ken. I'll have to take a look. I did manage to download
some of the files on designing circuits with tubes, and with the online
tube manuals I might be able to figure out something on my own. Still,
if anyone can think of where I can find something already made up that
I can use, I'd appreciate it.

Ralph

From -1578398543202270724
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews6.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
<458CBF06.6010500@invalid.invalid>
<1166917333.449616.288050@80g2000cwy.googlegroups.com>
<nXjjh.5073$_X.3608@bigfe9>   <emklsm$s6q$1@theodyn.ncf.ca>
<1166972512.870892.49690@79g2000cws.googlegroups.com>
In-Reply-To: <1166972512.870892.49690@79g2000cws.googlegroups.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 25
Message-ID: <vKxjh.10272$h_1.2851@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling

```
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcbofigjklgfiglgpegoepbbmgojaahccfgiml
kppbhcodhjhpilpeaaogjefembkhmkihbbjoldfngcmehnbdfmdldhohlogoofabfcddocofaaiphb
NNTP-Posting-Date: Sun, 24 Dec 2006 11:17:31 EST
Organization: BellSouth Internet Group
Date: Sun, 24 Dec 2006 11:17:43 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8414

julian814 wrote:
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> if anyone can think of where I can find something already made up that
> I can use, I'd appreciate it.
>
>
> Ralph
>
HERE'S the link http://www.io.com/~nielw/3tubrcvr/3tubrcvr.htm


From 6873899461370364790
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews6.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
<458CBF06.6010500@invalid.invalid>
<1166917333.449616.288050@80g2000cwy.googlegroups.com>
<nXjjh.5073$_X.3608@bigfe9>   <emklsm$s6q$1@theodyn.ncf.ca>
<1166972512.870892.49690@79g2000cws.googlegroups.com>
<vKxjh.10272$h_1.2851@bignews6.bellsouth.net>
```

In-Reply-To: <vKxjh.10272$h_1.2851@bignews6.bellsouth.net>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 37
Message-ID: <8Pxjh.10274$h_1.7108@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcbocgfmlknkomngeomglhfokggfcodgcdmiml
kppbhcodhjhpilpeaaogjefembkhmkihbbjoldfngcmehnhpemnfigfclednhdgffkmbnnajbjhoka
NNTP-Posting-Date: Sun, 24 Dec 2006 11:22:28 EST
Organization: BellSouth Internet Group
Date: Sun, 24 Dec 2006 11:22:40 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8415

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>> tube manuals I might be able to figure out something on my own. Still,
>> if anyone can think of where I can find something already made up that
>> I can use, I'd appreciate it.
>>
>>
>> Ralph
>>
> HERE'S the link http://www.io.com/~nielw/3tubrcvr/3tubrcvr.htm
Oh, nearly forgot....
With a little head scratching, you can replace the 6K8 with a 6u8, 6ea8,
6x8 (etc) triode/pentode. Use the pentode as the mixer and the triode
as the oscillator. In many cases the inter-electrode capacitance inside
the tube will provide enough coupling from the oscillator to the mixer,
but you might need to use a gimick capacitor (twisted wires) from the
pentode grid to the oscillator plate. Other tricks are to connect the
pentode screen to the oscillator plate, or in the case of the 6x8, the
pentode grid 3 to the oscillator grid.

The 6c8 may be replaced by ANY dual triode (such as 12au7, 12at7, 12ax7,
6sn7,6sl7, etc....)

From 1619671310330142533
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews6.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
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<458CBF06.6010500@invalid.invalid>
<1166917333.449616.288050@80g2000cwy.googlegroups.com>
<nXjjh.5073$_X.3608@bigfe9>   <emklsm$s6q$1@theodyn.ncf.ca>
<1166972512.870892.49690@79g2000cws.googlegroups.com>
<vKxjh.10272$h_1.2851@bignews6.bellsouth.net>
In-Reply-To: <vKxjh.10272$h_1.2851@bignews6.bellsouth.net>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 26
Message-ID: <dQxjh.10275$h_1.4301@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcbommgnmccfchfopkjakgpdbcjelcgidldnml
kppbhcodhjhpilpeaaogjefembkhmkihbbjoldfngcmehnmcpaknbpanoplaejjongdjiejjbilnml
NNTP-Posting-Date: Sun, 24 Dec 2006 11:23:37 EST
Organization: BellSouth Internet Group
Date: Sun, 24 Dec 2006 11:23:49 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8416

ken scharf wrote:
> julian814 wrote:
>> Michael Black wrote:
>>> ken scharf (wa2mzeNOSPAMBOTS@bellsouth.net) writes:
>>>> I don't recall the url but I remember a 2-3 tube receiver from the 40's
>>>> that might be what you want. It was a simple superhet with a
>>>> regenerative detector. Used a 6k8 as the converter and a 6c8g as the
>>>> detector / audio.
>>> They were called "supergainers" and apparently Frank Jones, of later
>>> VHF fame, was a big proponent of them in the thirties.
>>>
>>> The earlier Radio Handbook on that webpage someone posted about would
>>> have them, the 1936 version or whatever. I didn't suggest downloading
>>> that one since I had the impression the tubes available to the original
>>> poster were miniature, and the book predates those.
>> Thanks, Mike, Ken. I'll have to take a look. I did manage to download

```
>> some of the files on designing circuits with tubes, and with the online
>> tube manuals I might be able to figure out something on my own. Still,
>> if anyone can think of where I can find something already made up that
>> I can use, I'd appreciate it.
>>
>>
>> Ralph
>>
> HERE'S the link http://www.io.com/~nielw/3tubrcvr/3tubrcvr.htm
Link to follow up... http://www.io.com/~nielw/3tube_xtal/3tube_xtal.htm


From -1569609878121178560
X-Google-Thread: fc2a5,106b259178bf17bd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!48g2000cwx.googlegroups.com!not-for-
mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal ham receiver
Date: 24 Dec 2006 13:04:51 -0800
Organization: http://groups.google.com
Lines: 35
Message-ID: <1166994291.701666.303680@48g2000cwx.googlegroups.com>
References: <1166888452.256055.166010@48g2000cwx.googlegroups.com>
NNTP-Posting-Host: 63.73.218.152
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166994298 16537 127.0.0.1 (24 Dec 2006 21:04:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 24 Dec 2006 21:04:58 +0000 (UTC)
In-Reply-To: <1166888452.256055.166010@48g2000cwx.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 48g2000cwx.googlegroups.com; posting-host=63.73.218.152;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news2.google.com rec.radio.amateur.homebrew:8417

jimspeer@jimspeer.org wrote:
> But the
> ones I have used seem plagued with near-signal desensitization, front
> end overload, etc., and I suppose all that comes from putting the
> selectivity so far downstream.
>
> I'm almost tempted to get an old 75s4 and shut up, but I really don't
> need another room heater, so, instead, I'm thinking of building my own
> receiver along the lines laid down by the late Doug DeMaw in his _QRP
> Notebook_.  Single conversion 160m superhet with Collins mechanical
> filters in the IF and a series of down-converters for the other bands.
> Anybody got any experience with the DeMaw Design?
```

The DeMaw designs are very nice but with their band-wide converters
they also suffer from having selectivity downstream rather than at the
front. Preselection at the front helps with any of these.

The modern choice of a 45MHz or so first IF is really pretty nifty for
a general coverage receiver from the past couple of decades. Lack of
preselection can be largely cleared up by bolting something before the
front end, and indeed many of the receivers you see that cost as much
as a car have tracking preselectors.

But if you don't want to upconvert, as I see it you have two choices:

1. Don't even try bandswitching. Coil sets for each band. You end up
with the HBR-16, a very elegant and homebrewable receiver.

2. Do bandswitching but with elaborate tracking front end (and if
necessary a tracking IF, but with modern synthesizers you probably
wouldn't), probably with many switching sections to handle the required
octaves. You end up with a R-390A.

Tim.

```
From 8854860876846262644
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a3g2000cwd.googlegroups.com!not-for-
mail
From: hot-ham-and-cheese@hotmail.com
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: Tri-Faced Robesin Strikes Out Again
Date: 24 Dec 2006 15:33:59 -0800
Organization: http://groups.google.com
Lines: 49
Message-ID: <1167003239.808806.105780@a3g2000cwd.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
   <72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
   <1166788359.491358.56780@a3g2000cwd.googlegroups.com>
   <1166792384.673664.20000@80g2000cwy.googlegroups.com>
   <1166845903.893439.54470@80g2000cwy.googlegroups.com>
   <if1g5.fhf.19.1@news.alt.net>
   <1166921851.172786.324130@a3g2000cwd.googlegroups.com>
   <udmro2hcabmpd58n7tpkb4t7o32f04ubkv@4ax.com>
NNTP-Posting-Host: 4.224.231.79
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167003245 7970 127.0.0.1 (24 Dec 2006 23:34:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 24 Dec 2006 23:34:05 +0000 (UTC)
In-Reply-To: <udmro2hcabmpd58n7tpkb4t7o32f04ubkv@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a3g2000cwd.googlegroups.com; posting-host=4.224.231.79;
   posting-account=mMyuWQ0AAAANPpX1wK2NRuuQfAjm_kIo
Xref: g2news2.google.com rec.radio.amateur.policy:60114
rec.radio.amateur.misc:27351 rec.radio.cb:23957 rec.radio.amateur.homebrew:8418


Mark@kb9rqz.aprs wrote:
> On 23 Dec 2006 16:57:31 -0800, hot-ham-and-cheese@hotmail.com wrote:
> >Roger wrote:
> >> <hot-ham-and-cheese@hotmail.com> wrote in message
> >> news:1166845903.893439.54470@80g2000cwy.googlegroups.com...
> >> > K4YZ wrote:
> >> > > hot-ham-and-cheese@hotmail.com wrote (N0IMD):
> >> > > > Bill Turner wrote:
> >> > > > > Please folks, do not reply to these off topic posts.
> >> > > > >
> >> > > > > If these idiots never get any replies, they will eventually give up
> >> > > > > and go away.
> >> > > > >
> >> > > > > Thanks,
> >> > > > >
> >> > > > > Bill, W6WRT
> >> > > >
> >> > > > Bill, I respectfully disagree.  Your strategy works with normal
> >> people.
> >> > > >  Robesin isn't normal, and he'll only go away when his ISP is shut
> >> off.
> >> > > >  He's the originator of the infamous "MARS >>>IS<<< Amareur Radio"
> >> > > > declaration and the excrement eating thread.  At the moment, he's got
> >> > > > himself wrapped up in the flag, so he's untouchable even if off-topic.
> >> > >
> >>
> >> Of course let us not leave Mark out of the insanity. Mark will continue to
> >> crap upon as many posts as he can, whether he is asked to join or not.
> >
> >If you hadn't noticed, Mark is "Out-Assholing" Robesin.  He's doing a
> >damned fine job of it, too.
>
> thank you I am only sorry that Robeson decided to provide the
> motivation

He should get some gigs as a motivational speaker.

> >> Mark is far from "normal", too. Billy Smith already knows that....
> >
> >Everyone has issues, but there's no need for Robesin to scour the
> >internet and bring stuff back to RRAP that has no place on RRAP.  But
> >thanks for asking.
>
> indeed the last person to accuse me of being normal I chenlanged to
> deul

Ha!




From 4892471329062802272
X-Google-Thread: fc2a5,106b259178bf17bd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!newsfeed.stanford.edu!
news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal ham receiver
Date: 24 Dec 2006 23:47:37 GMT
Organization: The National Capital FreeNet
Lines: 36
Message-ID: <emn3ip$7oi$1@theodyn.ncf.ca>
References: <1166888452.256055.166010@48g2000cwx.googlegroups.com>
<1166994291.701666.303680@48g2000cwx.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1167004057 7954 134.117.136.48 (24 Dec 2006 23:47:37 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 24 Dec 2006 23:47:37 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8419

"Tim Shoppa" (shoppa@trailing-edge.com) writes:

> 1. Don't even try bandswitching. Coil sets for each band. You end up
> with the HBR-16, a very elegant and homebrewable receiver.
>
One reason there was that phase with a separate converter per band ahead
of a receiver tuning a fixed band was to avoid switching tuned circuits.
By that time, the semiconductors cost so little that it was easier to
duplicate them for each band, and then the bandswitching becomes so much
easier.  No fussing about getting close to the tuned circuits, you simply
switch the "B+" and the input and/or outputs.  Or, make those
converters plug in, and then no switches required at all.

I sort of alluded to this in an earlier post.  Make a good receiver,
minus the variable oscillator and the front end tuning.  Maybe even
put the mixer in the "plugins".  Then you end up with a good receiver
that is quite flexible, because the things that you may want to play
with and may give trouble are in a separate box or plugins.
```

YOu can even play with things like tuneable frontends versus something
that is broadband across a ham band. Some bands might interest the
builder more than others, so they could build a really good plugin
front end for that band, and lesser front ends for other bands, or
leave off the bands they aren't interested in (but those bands
can easily be added later, unlike a bandswitched rig).

IN the sixties, there was a guy who had a whole slew of receivers
described in CQ. Virtually all of them were single bands, and he
made the point that it left off bandswitching, and of course he
could choose an IF that better matches the tuning range. Good points,
but an awful lot of duplication. Build a good receiver first,
and then play with the frontends endlessly.

   Michael VE2BVW

```
From 6682036018786517402
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h40g2000cwb.googlegroups.com!not-for-
mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: 24 Dec 2006 20:13:53 -0800
Organization: http://groups.google.com
Lines: 29
Message-ID: <1167020032.919742.114850@h40g2000cwb.googlegroups.com>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
   <458CBF06.6010500@invalid.invalid>
   <1166917333.449616.288050@80g2000cwy.googlegroups.com>
   <nXjjh.5073$_X.3608@bigfe9>
   <emklsm$s6q$1@theodyn.ncf.ca>
   <1166972512.870892.49690@79g2000cws.googlegroups.com>
   <vKxjh.10272$h_1.2851@bignews6.bellsouth.net>
   <8Pxjh.10274$h_1.7108@bignews6.bellsouth.net>
NNTP-Posting-Host: 207.69.137.13
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167020036 13822 127.0.0.1 (25 Dec 2006 04:13:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 25 Dec 2006 04:13:56 +0000 (UTC)
In-Reply-To: <8Pxjh.10274$h_1.7108@bignews6.bellsouth.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h40g2000cwb.googlegroups.com; posting-host=207.69.137.13;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
```

```
Xref: g2news2.google.com rec.radio.amateur.homebrew:8420


ken scharf wrote:
> > HERE'S the link http://www.io.com/~nielw/3tubrcvr/3tubrcvr.htm
> Oh, nearly forgot....
> With a little head scratching, you can replace the 6K8 with a 6u8, 6ea8,
> 6x8 (etc) triode/pentode.  Use the pentode as the mixer and the triode
> as the oscillator.  In many cases the inter-electrode capacitance inside
> the tube will provide enough coupling from the oscillator to the mixer,
> but you might need to use a gimick capacitor (twisted wires) from the
> pentode grid  to the oscillator plate.  Other tricks are to connect the
> pentode screen to the oscillator plate, or in the case of the 6x8, the
> pentode grid 3 to the oscillator grid.
>
> The 6c8 may be replaced by ANY dual triode (such as 12au7, 12at7, 12ax7,
> 6sn7,6sl7, etc....)

I think we may be in business, here. Went through my selection of
tubes, and there's a 6X8 and a 12AX7A among them. Three other tubes
looked like they had promise - two 12AV6 and a 6BU6.

After I'm done with this post, I'm going to Google Images to see if I
do indeed have 2000 ohm headphones. I want to make sure, because
elsewhere I found a crystal shortwave radio that uses them as well.
That might serve my needs better, although it won't have those cool
glow in the dark tubes.


Ralph




From 8820702089409329616
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!48g2000cwx.googlegroups.com!not-for-
mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: 25 Dec 2006 06:49:46 -0800
Organization: http://groups.google.com
Lines: 13
Message-ID: <1167058186.021195.76110@48g2000cwx.googlegroups.com>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
   <458CBF06.6010500@invalid.invalid>
   <1166917333.449616.288050@80g2000cwy.googlegroups.com>
   <nXjjh.5073$_X.3608@bigfe9>
   <emklsm$s6q$1@theodyn.ncf.ca>
   <1166972512.870892.49690@79g2000cws.googlegroups.com>
   <vKxjh.10272$h_1.2851@bignews6.bellsouth.net>
   <8Pxjh.10274$h_1.7108@bignews6.bellsouth.net>
   <1167020032.919742.114850@h40g2000cwb.googlegroups.com>
NNTP-Posting-Host: 4.239.171.43
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167058192 7429 127.0.0.1 (25 Dec 2006 14:49:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 25 Dec 2006 14:49:52 +0000 (UTC)
In-Reply-To: <1167020032.919742.114850@h40g2000cwb.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 48g2000cwx.googlegroups.com; posting-host=4.239.171.43;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8421
```

After using Google images to track down pictures of 2000 ohm
headphones, I am satisfied that those are what I have. (Eight sets, in
fact.) Found out the one tube is a 6BJ6, not a 6BU6, but it does still
seem usable. Going to ask if I can make some trades with tubesandmore,
so I can find a good home for some of the headphones and possibly get
the tube sockets and transformers I need for my project.

Thanks again to everyone who has helped. Time for me to go do some
math. (Ugh!)

Ralph

```
From 6716239103379625541
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f1g2000cwa.googlegroups.com!not-for-
mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: 25 Dec 2006 10:50:42 -0800
Organization: http://groups.google.com
Lines: 20
Message-ID: <1167072642.300139.127140@f1g2000cwa.googlegroups.com>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 207.69.137.11
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167072646 10122 127.0.0.1 (25 Dec 2006 18:50:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 25 Dec 2006 18:50:46 +0000 (UTC)
In-Reply-To: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
```

User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f1g2000cwa.googlegroups.com; posting-host=207.69.137.11;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8422

Today, I am reminded that Google is my friend. After much digging and prodding, I found what I was looking for. It seems the National SW-54 receiver is as close to what I want as possible without me having to do math. It dates back to the 50's, uses tubes, (in fact, I already have three of the five in it) covers a good amount of the SW band, and will drive either my 2000 ohm headphones or a 4" speaker. BAMA had the manual, but it wouldn't give it up, so I had to go to the mirror site to get it. Everything I need is in it - schematics, parts list, pictures of the assembled receiver. Not exactly the ideal radio for a first try, but nothing good ever came easy, did it? ;-)

Thanks again to everyone who offered advice and suggestions. I'll be sure to post when I have it together and let everyone know how I made out.

Time to scrounge for parts.

Ralph

From 256186547621769220
X-Google-Thread: fc2a5,106b259178bf17bd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f1g2000cwa.googlegroups.com!not-for-mail
From: "laura halliday" <marsgal42@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal ham receiver
Date: 25 Dec 2006 11:18:51 -0800
Organization: http://groups.google.com
Lines: 30
Message-ID: <1167074331.446124.196880@f1g2000cwa.googlegroups.com>
References: <1166888452.256055.166010@48g2000cwx.googlegroups.com>
NNTP-Posting-Host: 208.114.129.253
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167074335 14242 127.0.0.1 (25 Dec 2006 19:18:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 25 Dec 2006 19:18:55 +0000 (UTC)
In-Reply-To: <1166888452.256055.166010@48g2000cwx.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR

```
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f1g2000cwa.googlegroups.com; posting-host=208.114.129.253;
   posting-account=hajlLgwAAABnEIYWRhxcLRahLr8hJUY4
Xref: g2news2.google.com rec.radio.amateur.homebrew:8423

jimspeer@jimspeer.org wrote:
> I don't much like the receivers I've used in contemporary tranceivers
> -- the general coverage synthisized open front end ones. (I hasten to
> add I haven't used any of the $4000 rigs; can't afford them). But the
> ones I have used seem plagued with near-signal desensitization, front
> end overload, etc., and I suppose all that comes from putting the
> selectivity so far downstream.
>
> I'm almost tempted to get an old 75s4 and shut up, but I really don't
> need another room heater, so, instead, I'm thinking of building my own
> receiver along the lines laid down by the late Doug DeMaw in his _QRP
> Notebook_.  Single conversion 160m superhet with Collins mechanical
> filters in the IF and a series of down-converters for the other bands.
> Anybody got any experience with the DeMaw Design?

I'm partial to KK7B's stuff, since the less you mess with the
signal turning it from RF to audio, the better it sounds.
And if you *want* to mess with it, you've got a better
place to start.

My best shack receiver is a Harris RF-590. A genuine
professional military/industrial/spook radio, rack mounted,
weighs a ton, megabucks new, but reasonable if you can
get one surplus. If you can't hear it on this radio, you don't
need to hear it.

Laura Halliday VE7LDH     "Que les nuages soient notre
Grid: CN89mg                    pied a terre..."
ICBM: 49 16.05 N 122 56.92 W       - Hospital/Shafte



From 7043786287540665325
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews1.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
<458CBF06.6010500@invalid.invalid>
```

```
<1166917333.449616.288050@80g2000cwy.googlegroups.com>
<nXjjh.5073$_X.3608@bigfe9>   <emklsm$s6q$1@theodyn.ncf.ca>
<1166972512.870892.49690@79g2000cws.googlegroups.com>
<vKxjh.10272$h_1.2851@bignews6.bellsouth.net>
<8Pxjh.10274$h_1.7108@bignews6.bellsouth.net>
<1167020032.919742.114850@h40g2000cwb.googlegroups.com>
<1167058186.021195.76110@48g2000cwx.googlegroups.com>
In-Reply-To: <1167058186.021195.76110@48g2000cwx.googlegroups.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 21
Message-ID: <TeYjh.9003$U12.8097@bignews1.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
pcpocbcnbdmdhgfgdbdpiflmbcekedmfhojhikkbagflhcbomknnhpfbbhimlijjlpmkbjphalfpigojml
kppbhcodhjhpilhlkanmpdfhgbpcbgihbbjoldfngcmehnlleaapjkehcoogdlonobelcbknckakif
NNTP-Posting-Date: Mon, 25 Dec 2006 17:26:59 EST
Organization: BellSouth Internet Group
Date: Mon, 25 Dec 2006 17:27:12 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8424
```

julian814 wrote:
> After using Google images to track down pictures of 2000 ohm
> headphones, I am satisfied that those are what I have. (Eight sets, in
> fact.) Found out the one tube is a 6BJ6, not a 6BU6, but it does still
> seem usable. Going to ask if I can make some trades with tubesandmore,
> so I can find a good home for some of the headphones and possibly get
> the tube sockets and transformers I need for my project.
>
> Thanks again to everyone who has helped. Time for me to go do some
> math. (Ugh!)
>
>
> Ralph
>

You can just measure the resistance of the phones with an ohm meter.
The result will be close enough to the impedance (I think in the era
they were made they didn't even measure impedance, just the resistance).

Also, I have a lot's used 12au7's. If you need a few you can have some
for the cost of postage.

```
From -4284521349213269967
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
bigfeed3.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!
```

```
news.bellsouth.net!bignews1.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
<1167072642.300139.127140@f1g2000cwa.googlegroups.com>
In-Reply-To: <1167072642.300139.127140@f1g2000cwa.googlegroups.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 25
Message-ID: <nhYjh.9004$U12.2493@bignews1.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
pcpocbcnbdmdhgfgdbdpiflmbcekedmfhojhikkbagflhcbooiphlaiopfoijdljlpmkbjphalfpigojml
kppbhcodhjhpilhlkanmpdfhgbpcbgihbbjoldfngcmehncnmpfohaekllapioblapglmcbibngiph
NNTP-Posting-Date: Mon, 25 Dec 2006 17:29:39 EST
Organization: BellSouth Internet Group
Date: Mon, 25 Dec 2006 17:29:52 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8425

julian814 wrote:
> Today, I am reminded that Google is my friend. After much digging and
> prodding, I found what I was looking for. It seems the National SW-54
> receiver is as close to what I want as possible without me having to do
> math. It dates back to the 50's, uses tubes, (in fact, I already have
> three of the five in it) covers a good amount of the SW band, and will
> drive either my 2000 ohm headphones or a 4" speaker. BAMA had the
> manual, but it wouldn't give it up, so I had to go to the mirror site
> to get it. Everything I need is in it - schematics, parts list,
> pictures of the assembled receiver. Not exactly the ideal radio for a
> first try, but nothing good ever came easy, did it? ;-)
>
> Thanks again to everyone who offered advice and suggestions. I'll be
> sure to post when I have it together and let everyone know how I made
> out.
>
> Time to scrounge for parts.
>
>
> Ralph
>
Ocean State electronics has EXACT replacement coil forms for the beast.
(sockets are another story!)  They have NORMAL socket type plug in coil
forms too.  (the national coil forms have different pin spacing than
standard tube socket type coils).


From 6630112266442523942
X-Google-Thread: fc2a5,e498b8cce687826b
```

X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!elnk-atl-nf1!newsfeed.earthlink.net!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews1.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
<1167072642.300139.127140@f1g2000cwa.googlegroups.com>
In-Reply-To: <1167072642.300139.127140@f1g2000cwa.googlegroups.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 35
Message-ID: <SrYjh.9009$U12.4101@bignews1.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
pcpocbcnbdmdhgfgdbdpiflmbcekedmfhojhikkbagflhcboobglbifbacfgpbpchebakmlfngoclfebml
kppbhcodhjhpilhlkanmpdfhgbpcbgihbbjoldfngcmehnijnfelkmohbjiokmcpfhhhckfcphkjbc
NNTP-Posting-Date: Mon, 25 Dec 2006 17:40:50 EST
Organization: BellSouth Internet Group
Date: Mon, 25 Dec 2006 17:41:03 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8426

julian814 wrote:
> Today, I am reminded that Google is my friend. After much digging and
> prodding, I found what I was looking for. It seems the National SW-54
> receiver is as close to what I want as possible without me having to do
> math. It dates back to the 50's, uses tubes, (in fact, I already have
> three of the five in it) covers a good amount of the SW band, and will
> drive either my 2000 ohm headphones or a 4" speaker. BAMA had the
> manual, but it wouldn't give it up, so I had to go to the mirror site
> to get it. Everything I need is in it - schematics, parts list,
> pictures of the assembled receiver. Not exactly the ideal radio for a
> first try, but nothing good ever came easy, did it? ;-)
>
> Thanks again to everyone who offered advice and suggestions. I'll be
> sure to post when I have it together and let everyone know how I made
> out.
>
> Time to scrounge for parts.
>
>
> Ralph
>

OPPS, I confused the sw-54 with the sw3-5 series.
This one is a "modern" superhet. Do you have the IF transformers, band
switch and coils?

I have a complete band switch and coil assembly from an old Lafayette short wave receiver. It is a 4 band assembly with rf, osc, and mixer coils intended for use with a 3 gang 365pf/section tuning capacitor. I was thinking of using this in some project (that never happened), but it sounds like just what you want. The coils have slug tuned tracking adjustments, and the oscillator and mixer coils also have trimmer capacitor tracking too.

If you can use this let me know.

From 2174760809283222770
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!news.glorb.com!bigfeed2.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews1.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com> <1167072642.300139.127140@f1g2000cwa.googlegroups.com> <SrYjh.9009$U12.4101@bignews1.bellsouth.net>
In-Reply-To: <SrYjh.9009$U12.4101@bignews1.bellsouth.net>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 44
Message-ID: <GEYjh.9012$U12.3314@bignews1.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace: pcpocbcnbdmdhgfgdbdpiflmbcekedmfhojhikkbagflhcboclipjfhagbnnmbdghebakmlfngoclfebmlkppbhcodhjhpilhlkanmpdfhgbpcbgihbbjoldfngcmehnjjghmimpeddmpoghkpfgbclfkiiafgkf
NNTP-Posting-Date: Mon, 25 Dec 2006 17:54:30 EST
Organization: BellSouth Internet Group
Date: Mon, 25 Dec 2006 17:54:42 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8427

ken scharf wrote:
> julian814 wrote:
>> Today, I am reminded that Google is my friend. After much digging and prodding, I found what I was looking for. It seems the National SW-54 receiver is as close to what I want as possible without me having to do math. It dates back to the 50's, uses tubes, (in fact, I already have three of the five in it) covers a good amount of the SW band, and will drive either my 2000 ohm headphones or a 4" speaker. BAMA had the manual, but it wouldn't give it up, so I had to go to the mirror site

>> to get it. Everything I need is in it - schematics, parts list,
>> pictures of the assembled receiver. Not exactly the ideal radio for a
>> first try, but nothing good ever came easy, did it? ;-)
>>
>> Thanks again to everyone who offered advice and suggestions. I'll be
>> sure to post when I have it together and let everyone know how I made
>> out.
>>
>> Time to scrounge for parts.
>>
>>
>> Ralph
>>
> OPPS, I confused the sw-54 with the sw3-5 series.
> This one is a "modern" superhet. Do you have the IF transformers, band
> switch and coils?
>
> I have a complete band switch and coil assembly from an old Lafayette
> short wave receiver. It is a 4 band assembly with rf, osc, and mixer
> coils intended for use with a 3 gang 365pf/section tuning capacitor.
> I was thinking of using this in some project (that never happened), but
> it sounds like just what you want. The coils have slug tuned tracking
> adjustments, and the oscillator and mixer coils also have trimmer
> capacitor tracking too.
>
> If you can use this let me know.
>

PS, if you use this you'll have to change the tube lineup to take full
advantage of all the coils. Replace the 50c5 with a 35c5 and add
another 12ba6 for an rf amplifier. Actually you should use all 6v tubes
and a power transformer. Those AC/DC sets are "undertakers labs"
approved shock hazards. An "isolation transformer will fix that of course."

The schematic of the receiver the coil switch assembly came from is here
http://bama.edebris.com/manuals/lafayett/ha700/

From -4999457251149589020
X-Google-Thread: 108228,b0b7c956a377fc68,start
X-Google-Thread: fc8b1,b0b7c956a377fc68,start
X-Google-Thread: 108122,b0b7c956a377fc68,start
X-Google-Thread: fc2a5,b0b7c956a377fc68,start
X-Google-Attributes: gid108228,gidfc8b1,gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!130.81.64.211.MISMATCH!cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe17.lga.POSTED!53ab2750!not-for-mail
From: "KC0EH" <cvest@cox.net>
Newsgroups: alt.ham-radio.marketplace,rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: WTD:MSR-2000 VHF XMTR

Lines: 7
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <Dm%jh.32705$923.28123@newsfe17.lga>
Date: Mon, 25 Dec 2006 20:04:29 -0600
NNTP-Posting-Host: 68.103.64.62
X-Complaints-To: admin@cox.net
X-Trace: newsfe17.lga 1167098403 68.103.64.62 (Mon, 25 Dec 2006 19:00:03 MST)
NNTP-Posting-Date: Mon, 25 Dec 2006 19:00:03 MST
Organization: Cox
Xref: g2news2.google.com alt.ham-radio.marketplace:1641
rec.radio.amateur.boatanchors:6848 rec.radio.amateur.equipment:7679
rec.radio.amateur.homebrew:8429

Our club is looking for a spare transmitter board for our Motorola
MSR-2000 VHF repeater.
Please state price and condition.

Charlie (KC0EH) Club Call (WR0CV)

From -1331376774412705051
X-Google-Thread: fc2a5,b0b7c956a377fc68
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WTD:MSR-2000 VHF XMTR
Date: Mon, 25 Dec 2006 18:12:33 -0800
Message-ID: <4111p2lqflevm8hbttth4ia9m2v3lvnlt3@4ax.com>
References: <Dm%jh.32705$923.28123@newsfe17.lga>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node100-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1167086290 66.52.61.100 (25 Dec 2006 17:38:10 -0500)
Lines: 9
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.100
Path: g2news2.google.com!news3.google.com!news.glorb.com!news-out1.kabelfoon.nl!
newsfeed.kabelfoon.nl!bandi.nntp.kabelfoon.nl!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8430

Please folks, do not reply to these posts which have nothing to do
with the purpose of this newsgroup.

If these clueless fools never get any replies, they will eventually learn to post to the correct newsgroup.

Thanks,

Bill, W6WRT

From 5842360377674667614
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!73g2000cwn.googlegroups.com!not-for-mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: 25 Dec 2006 20:08:31 -0800
Organization: http://groups.google.com
Lines: 13
Message-ID: <1167106110.951129.298910@73g2000cwn.googlegroups.com>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 207.69.137.25
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167106114 14279 127.0.0.1 (26 Dec 2006 04:08:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Dec 2006 04:08:34 +0000 (UTC)
In-Reply-To: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 73g2000cwn.googlegroups.com; posting-host=207.69.137.25;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8431

I'm starting to think I should just settle for that crystal shortwave set I found on the Antique Radio website. Less headaches.

No idea where to get the coils for the SW-54, so I guess that's out. Besides, since this is my first real attempt at making a radio, I should probably go for something simpler.

Going back to Google to see if I can find more on some of the tubes I have. I keep thinking I should be able to make a regenerative receiver with some amplification with the two 12AV6 tubes I have.

Ralph

From 7610036688206838258
X-Google-Thread: fc2a5,b0b7c956a377fc68

```
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 26 Dec 2006 08:21:11 -0600
Date: Tue, 26 Dec 2006 14:21:10 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WTD:MSR-2000 VHF XMTR
References: <Dm%jh.32705$923.28123@newsfe17.lga>
<4111p2lqflevm8hbttth4ia9m2v3lvnlt3@4ax.com>
In-Reply-To: <4111p2lqflevm8hbttth4ia9m2v3lvnlt3@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <IJ6dncSBZrFFsgzYnZ2dnUVZ_oernZ2d@bright.net>
Lines: 29
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
nyhWFxbR3p4Bso4EbJEynW33Epv10CkASBg9YIbK8ZYPJQTMdu1eURojndXaBpfFAbISMUz3fTH42ww!
ezX8+LRSmBmC+D7WOd/h2arNZNJNlU4yYQnhMras0sIsF5EX5ZMBlakr2Ub5bwlBuVOvf/taMSbT!
DDfPrTUf/A==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8432
```

Huh?

I've seen this exact reply to many posts on many ham newsgroups. If you disagree with the post, aren't you providing a "reply" to these "supposed" spammers? I think you're being a bit anal here. Most people with repeaters (even commercially made ones) have to do a bit of homebrewing to get them on the ham bands (controllers, id'ers, etc.).
It sounds like what you want is more specific newsgroups such as rec.radio.amateur.homebrew.vhf.2M.repeaters.motorola.msr2000.boards.replacement.PA.versionB

Lighten up. You don't HAVE to read these posts and this one had a very clear subject right in the subject line.

Scott
N0EDV

Bill Turner wrote:

> Please folks, do not reply to these posts which have nothing to do
> with the purpose of this newsgroup.
>
> If these clueless fools never get any replies, they will eventually
> learn to post to the correct newsgroup.
>
> Thanks,
>
> Bill, W6WRT

```
From 1137696252532845027
X-Google-Thread: fc2a5,b0b7c956a377fc68
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 26 Dec 2006 08:25:56 -0600
Date: Tue, 26 Dec 2006 14:25:54 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WTD:MSR-2000 VHF XMTR
References: <Dm%jh.32705$923.28123@newsfe17.lga>
<4111p2lqflevm8hbttth4ia9m2v3lvnlt3@4ax.com>
In-Reply-To: <4111p2lqflevm8hbttth4ia9m2v3lvnlt3@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <wqCdnYpJeKFprQzYnZ2dnUVZ_u2mnZ2d@bright.net>
Lines: 20
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-nNoqzsxnHegOIwYPHQ/
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RJAj5e05F2Odbh8IgmouKKX939jVjKqBIdtevYmhnHeXDOZxiWAjim3zASIo5wIIbD9nJDrfCKeQ!
hDS+YXRBjw==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8433
```

As a side note, which amateur newsgroup do YOU think they should post this to...rec.radio.amateur.swap ??? I haven't read that newsgroup in many months (and I'm still subscribed to it) because there have been no posts there. If I was looking for a replacement part, I'd want to post somewhere where it had a good chance of being seen.

Scott
N0EDV

Bill Turner wrote:

> Please folks, do not reply to these posts which have nothing to do
> with the purpose of this newsgroup.
>
> If these clueless fools never get any replies, they will eventually
> learn to post to the correct newsgroup.
>
> Thanks,
>
> Bill, W6WRT

```
From 6047305095053212200
X-Google-Thread: fc2a5,106b259178bf17bd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe19.lga.POSTED!5bbc007a!not-for-mail
From: ab0wr <tgorman2@cox.net>
Subject: Re: Ideal ham receiver
Newsgroups: rec.radio.amateur.homebrew
Reply-To: ab0wr@ab0wr.net
References: <1166888452.256055.166010@48g2000cwx.googlegroups.com>
Lines: 65
User-Agent: KNode/0.9.0
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <frcrme.o8h.ln@fe06.highwinds-media.phx>
X-Complaints-To: admin@cox.net
NNTP-Posting-Date: Tue, 26 Dec 2006 08:01:03 MST
Organization: Cox
Date: Tue, 26 Dec 2006 08:50:23 -0600
Xref: g2news2.google.com rec.radio.amateur.homebrew:8434
```

jimspeer@jimspeer.org wrote:

>
>
> I don't much like the receivers I've used in contemporary tranceivers
> -- the general coverage synthisized open front end ones. (I hasten to
> add I haven't used any of the $4000 rigs; can't afford them). But the
> ones I have used seem plagued with near-signal desensitization, front
> end overload, etc., and I suppose all that comes from putting the
> selectivity so far downstream.

>
> I'm almost tempted to get an old 75s4 and shut up, but I really don't need another room heater, so, instead, I'm thinking of building my own receiver along the lines laid down by the late Doug DeMaw in his _QRP Notebook_. Single conversion 160m superhet with Collins mechanical filters in the IF and a series of down-converters for the other bands. Anybody got any experience with the DeMaw Design?
>
> Jim, K5YUT

Jim,

I recently went through what you are now doing. Get a copy of EMRFD and read through it.

I built up a DDS vfo that I could use from a few khz up to about 20mhz. I put it in a well shielded enclosure to minimize spur pickup. The one I built also has an lcd readout and keeping that in the shielded enclosure keeps noise down in the rest of the receiver.

I then built up front end bandpass filters for just the ham bands and worked with them till I was happy with their performance.

I then picked up surplus crystals off of ebay. Get 100 of the same kind if you can. The hc49 units I got seem to work well. Then build up the crystal filters you need and get them working.

I then built up an IF using a 1496 ic and the crystal filter.

Then I built up a mini-circuit sbl1 mixer and started hooking things together. The mixer needs a good diplexer arrangement to do its best. I spent some time getting that built up. I learned quite a bit about interstage impedance matching. I used iron core toroid transformers to do most of that (e.g. btwn the mixer and filter and btwn the filter and the IF amp.

Add in a simple product detector and a *good* audio stage and you are all set.

The receiver hears at least as well as my icom 751a. It doesn't have passband tuning (and likely won't) or a notch filter (I have plans to add an audio notch filter) so it isn't quite as good in a crowded situation.

But it *is* simple and easy to work on.

Oh, I almost forgot. I wound up building up an RF amplifier to enhance the receivers sensitivity and added a switchable 20db pad to help with overload situations. I also used a set of latch relays to control everything with a whole bunch of pushbutton switches on the front panel. The relays were expensive but work really well.

Anyway, I think you can build a single conversion receiver that will be quite adequate even compared to todays equipment. Give it a try!

tim ab0wr

From -2258289744242343635
X-Google-Thread: fc2a5,b0b7c956a377fc68
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WTD:MSR-2000 VHF XMTR
Date: 26 Dec 2006 16:58:32 GMT
Organization: The National Capital FreeNet
Lines: 68
Message-ID: <emrkbo$rrk$1@theodyn.ncf.ca>
References: <Dm%jh.32705$923.28123@newsfe17.lga>
<4111p2lqflevm8hbttth4ia9m2v3lvnlt3@4ax.com>
<wqCdnYpJeKFprQzYnZ2dnUVZ_u2mnZ2d@bright.net>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1167152312 28532 134.117.136.48 (26 Dec 2006 16:58:32 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 26 Dec 2006 16:58:32 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8435

Scott (acepilot@bloomer.net) writes:
> As a side note, which amateur newsgroup do YOU think they should post
> this to...rec.radio.amateur.swap ??? I haven't read that newsgroup in
> many months (and I'm still subscribed to it) because there have been no
> posts there. If I was looking for a replacement part, I'd want to post
> somewhere where it had a good chance of being seen.
>
> Scott
> N0EDV
>

There is no "rec.radio.amateur.swap" It's rec.radio.swap

The original post went to:
  alt.ham-radio.marketplace
  rec.radio.amateur.boatanchors
  rec.radio.amateur.equipment
  rec.radio.amateur.homebrew
The first is the only one where it really belongs. Maybe .boatanchors, since when they created it they allowed for ad, though the intent was not a general buy and sell newsgroup and neither was it truly meant as simply a buy and sell newsgroup for boatanchors. It was meant as incidental to the discussion of boatanchors, so people having discussion might post ads, as opposed to people who merely use the newsgroup to buy things.

rec.radio.amateur.equipment is for the discussion of amateur radio equipment, and was never intended as a buy and sell newsgroup. The fact that bozos post their ads is not relevant to what the newsgroup is about.

Same with rec.radio.amateur.homebrew If anything, ads are even way further off topic, given this newsgroup is about building.

And you're notion that "If I was looking for a replacement part, I'd want to post somewhere where it had a good chance of being seen." is precisely why we see so much cross-posting. People who can't figure out where their post belongs hits all kinds of newsgroups in the hopes that someone will see it and they'll get a reply. It make no difference whether someone is buying or selling something, or it's those silly feud posts; they've all decided that what they want is more important than what others want. That's the very notion of spam, hitting lots of newsgroups (or email) in the hopes of getting a response.

People too often are misled by commercial advertising. We see it on broadcast radio, in the newspapers, and on tv, so it becomes acceptable. But what's missing is that advertisers in old media pay for their bandwidth, that they help to deliver the content. That is never the case when someone hits the newsgroups or email. All they pay is for their internet access, and the newsgroups and email would survive without them. So the acceptance of advertising in old media is no excuse for advertising/spam where it doesn't belong in the newsgroups.

Michael VE2BVW

> Bill Turner wrote:
>> Please folks, do not reply to these posts which have nothing to do
>> with the purpose of this newsgroup.
>>
>> If these clueless fools never get any replies, they will eventually
>> learn to post to the correct newsgroup.
>>
>> Thanks,
>>
>> Bill, W6WRT

From 1626087597388387858
X-Google-Thread: fc2a5,b0b7c956a377fc68
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WTD:MSR-2000 VHF XMTR
Date: Tue, 26 Dec 2006 09:49:34 -0800
Message-ID: <bvn2p2tq1jasopip7bj7gggocd8omtl9ks@4ax.com>

References: <Dm%jh.32705$923.28123@newsfe17.lga>
<4111p2lqflevm8hbttth4ia9m2v3lvnlt3@4ax.com>
<IJ6dncSBZrFFsgzYnZ2dnUVZ_oernZ2d@bright.net>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node145-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1167142510 66.52.61.145 (26 Dec 2006 09:15:10 -0500)
Lines: 16
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.145
Path: g2news2.google.com!news4.google.com!news.glorb.com!hwmnpeer01.lga!
hwmnpeer01.phx!news.highwinds-media.com!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8436

ORIGINAL MESSAGE:

On Tue, 26 Dec 2006 14:21:10 +0000, Scott <acepilot@bloomer.net>
wrote:

>Most people
>with repeaters (even commercially made ones) have to do a bit of
>homebrewing to get them on the ham bands (controllers, id'ers, etc.).

------------ REPLY FOLLOWS ------------

Wanting to buy a spare circuit board has to do with repairing, not homebrewing. Homebrewing means building a new piece of equipment essentially from scratch.

Bill, W6WRT

From -7008785475368569680
X-Google-Thread: fc2a5,b0b7c956a377fc68
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WTD:MSR-2000 VHF XMTR
Date: Tue, 26 Dec 2006 09:50:28 -0800
Message-ID: <fon2p2tpqp8g4k29rfumbg9p54ic3fkqj6@4ax.com>
References: <Dm%jh.32705$923.28123@newsfe17.lga>
<4111p2lqflevm8hbttth4ia9m2v3lvnlt3@4ax.com>
<wqCdnYpJeKFprQzYnZ2dnUVZ_u2mnZ2d@bright.net>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node145-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1167142563 66.52.61.145 (26 Dec 2006 09:16:03 -0500)
Lines: 20

X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.145
Path: g2news2.google.com!news1.google.com!news4.google.com!news.glorb.com!
multikabel.net!feed20.multikabel.net!news-out2.kabelfoon.nl!newsfeed.kabelfoon.nl!
bandi.nntp.kabelfoon.nl!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8437

ORIGINAL MESSAGE:

On Tue, 26 Dec 2006 14:25:54 +0000, Scott <acepilot@bloomer.net>
wrote:

>As a side note, which amateur newsgroup do YOU think they should post
>this to...rec.radio.amateur.swap ??? I haven't read that newsgroup in
>many months (and I'm still subscribed to it) because there have been no
>posts there. If I was looking for a replacement part, I'd want to post
>somewhere where it had a good chance of being seen.
>
>Scott
>N0EDV

------------ REPLY FOLLOWS ------------

Rec.radio.amateur.swap is very lightly used. I'd recommend
rec.radio.swap.

Bill, W6WRT

From 7765305833680468348
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!multikabel.net!
feed20.multikabel.net!news2.euro.net!66.150.105.54.MISMATCH!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
Message-Id: <lb4864xnhc.ln2@ursa-major.ursine.ca>
From: Paul Johnson <baloo@ursine.ca>
Subject: Re: K4YZ TARD
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.homebrew
Followup-To: rec.radio.cb
Date: Tue, 26 Dec 2006 09:56:37 -0800
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
<1166788359.491358.56780@a3g2000cwd.googlegroups.com>
<1166792384.673664.20000@80g2000cwy.googlegroups.com> <20061222162443.943$CS_-_@newsreader.com>
User-Agent: KNode/0.10.4

```
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Leafnode-NNTP-Posting-Host: 127.0.0.1
Lines: 11
NNTP-Posting-Date: 26 Dec 2006 17:17:49 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:60253
rec.radio.amateur.misc:27391 rec.radio.cb:24050 rec.radio.amateur.homebrew:8438

Steveo wrote:

> "K4YZ" <stevenrobeson@yahoo.com> wrote:
>>>
>  Steve, K4YZ//SLAP
>
> Why don't you and your homo ham buddy owner get a fucking room already,
> Steve? Or at least keep your lame breeding ritual out of rrcb.

Please don't feed the trolls.  It's best to aggressively killfile pretty
much any time you're reading rec.radio.* or rec.scouting.* it seems.

--
Posted via a free Usenet account from http://www.teranews.com



From 3619772526402476556
X-Google-Thread: fc2a5,556a8211f505a11a,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f1g2000cwa.googlegroups.com!not-for-
mail
From: "qslcanadagroups@gmail.com" <qslcanadagroups@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: QSL Cards
Date: 26 Dec 2006 11:15:03 -0800
Organization: http://groups.google.com
Lines: 51
Message-ID: <1167160503.530317.204030@f1g2000cwa.googlegroups.com>
NNTP-Posting-Host: 74.210.18.82
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1167160507 9234 127.0.0.1 (26 Dec 2006 19:15:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Dec 2006 19:15:07 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Opera/9.01 (Windows NT 5.1; U; en),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f1g2000cwa.googlegroups.com; posting-host=74.210.18.82;
   posting-account=XZVODwwAAABf0DzvtNyxNBvv0B2y6_Ke
Xref: g2news2.google.com rec.radio.amateur.homebrew:8439
```

Name: Kirill
Call: VE3AXC

Merry Christmas and Happy New Year everyone! I will be a subscriber of this forum from now on, so nice meeting everybody!

On this note, please allow me to stray a bit off this forum's topic but my info might still be relevant for some. I myself have been a ham for 8 years; also run a small QSL card printing business (my printishop is located in Toronto, Canada) and have a web site specifically dedicated to that www.qslcanada.com

Reason I would like to post this message on this forum is to let your group know that I have a pretty good group referral discount program.

The idea is quite simple and there is no catch.... For each HAM who is referred by you and who wishes to place an minimum order of 500 cards, you would receive 100 (custom designed) cards of the same type free of charge. The offer is transferable, so if for example you let me know that you don't need any more cards, I will be happy to print additional 100 cards for your friend free of charge (or charge for 100 cards less)

This offer may be ideal for your group or a club you belong to. For example, if you
refer say 3 HAMs who would like to print a minimum 500 cards for themselves, you would receive 300 cards as appreciation for spreading the word about qslcanada
; you could transfer it to someone as a gift ; or each of 3 Hams would only pay
for 400 cards, since each one will get 100 cards free. To sum it up, each of the referral counts as 100 free cards in any shape or form.
Pse let me know if you have any questions.

So if bunch of Hams in this group who are into QSLing might be interested to giving someone a free gift or getting a good deal on the next batch, pse let me know. The offer is valid any time in future.
www.qslcanada.com has quite a bit of samples, more info and e-ham reviews

PS Have got to mention this, since it did happen before, where some folks took this posting too personally. I just wanted to get this info out there ONE TIME ONLY! Please don't call me any spammer names or hate mail me. I believe this to be a fair group offer any hams by hams enterprise deserves a little exposure to start out with.

I will try to participate in this group from now on; best 73 to everyone and Happy New Year!

```
From 7602174596736865834
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i12g2000cwa.googlegroups.com!not-for-
mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: 26 Dec 2006 11:44:44 -0800
Organization: http://groups.google.com
Lines: 12
Message-ID: <1167162284.567143.213250@i12g2000cwa.googlegroups.com>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
   <1167106110.951129.298910@73g2000cwn.googlegroups.com>
NNTP-Posting-Host: 207.69.137.200
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167162289 13343 127.0.0.1 (26 Dec 2006 19:44:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Dec 2006 19:44:49 +0000 (UTC)
In-Reply-To: <1167106110.951129.298910@73g2000cwn.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i12g2000cwa.googlegroups.com; posting-host=207.69.137.200;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8440
```

Managed to find a regenerative receiver based on the 12AT7 tube. I've
been told I can substitute one of my 12AV6 tubes without a problem, so
that looks promising.

I have some twin triode tubes, as well. (6FQ7, 6BZ7 and 4BC8) I've been
wondering if I couldn't make some one tube receivers with them. (Use
one triode for regeneration, the other an amplifier.) As for the rest
of the tubes I have, I'd be willing to sell or swap for parts I'll
need.

Ralph

```
From 7070689550565052979
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!elnk-atl-nf1!newsfeed.earthlink.net!out02a.usenetserver.com!
```

```
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-
out.readnews.com!postnews3.readnews.com!nr3.newsreader.com.POSTED!not-for-mail
Subject: Re: K4YZ TARD
From: Steveo <moparholic@hotmail.com>
Organization: http://NewsReader.Com/ 30 GB Month
Message-ID: <20061226160340.369$Ec@newsreader.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Followup-To: rec.radio.amateur.homebrew
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
<1166788359.491358.56780@a3g2000cwd.googlegroups.com>
<1166792384.673664.20000@80g2000cwy.googlegroups.com> <20061222162443.943$CS_-
_@newsreader.com> <lb4864xnhc.ln2@ursa-major.ursine.ca>
X-NRC-Trace: NewsReader.Com MLyV2=LR0U=p@,XTRx86iGgbhk5QM4zi1HfqL@X/6@g,FqS
Date: 26 Dec 2006 20:56:36 GMT
Lines: 7
NNTP-Posting-Host: e6d013ec.nr3.newsreader.com
X-Trace: DXC=><^b4D<Bek7Fbh^<Vc3?F3OA8_@f\K_i2[1geCV>QNo:Va?
G@:E3=15Nd7biGRhQT7YA@MLbHKH8=J]eLnmP7aY2
X-Complaints-To: abuse@newsreader.com
Xref: g2news2.google.com rec.radio.amateur.policy:60257
rec.radio.amateur.misc:27397 rec.radio.cb:24055 rec.radio.amateur.homebrew:8441

Paul Johnson <baloo@ursine.ca> wrote:
> Please don't feed the trolls.  It's best to aggressively killfile pretty
> much any time you're reading rec.radio.* or rec.scouting.* it seems.
>
And yet you cross-post to them.

fu set



From -2633339794415902406
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews8.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
<1167106110.951129.298910@73g2000cwn.googlegroups.com>
<1167162284.567143.213250@i12g2000cwa.googlegroups.com>
In-Reply-To: <1167162284.567143.213250@i12g2000cwa.googlegroups.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
```

```
Content-Transfer-Encoding: 7bit
Lines: 14
Message-ID: <F8gkh.12138$3v6.6332@bignews8.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mabncmnekmdohbabdbdpiflmbcekedmfhojhikkbagflhcbojepmgbmadkdidfkmepbbmgojaahccfgiml
kppbhcodhjhpilkceoimnokohdfmanihbbjoldfngcmehnbdnghnlgmenpghkoajnemkeahkfplghp
NNTP-Posting-Date: Tue, 26 Dec 2006 16:05:41 EST
Organization: BellSouth Internet Group
Date: Tue, 26 Dec 2006 16:05:55 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8442

julian814 wrote:
> Managed to find a regenerative receiver based on the 12AT7 tube. I've
> been told I can substitute one of my 12AV6 tubes without a problem, so
> that looks promising.
>
> I have some twin triode tubes, as well. (6FQ7, 6BZ7 and 4BC8) I've been
> wondering if I couldn't make some one tube receivers with them. (Use
> one triode for regeneration, the other an amplifier.) As for the rest
> of the tubes I have, I'd be willing to sell or swap for parts I'll
> need.
>
> Ralph
>
http://www.lindsaybks.com/bks/twin/index.html


From 5267904098552546539
X-Google-Thread: fc2a5,106b259178bf17bd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 26 Dec 2006 17:09:00 -0600
From: "Jim" <kill-spam@no-spam.org>
Newsgroups: rec.radio.amateur.homebrew
References: <1166888452.256055.166010@48g2000cwx.googlegroups.com>
<frcrme.o8h.ln@fe06.highwinds-media.phx>
Subject: Re: Ideal ham receiver
Date: Tue, 26 Dec 2006 15:09:00 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 0662-2, 12/26/2006), Outbound message
X-Antivirus-Status: Clean
Message-ID: <Ufudnas0JJgQNgzYnZ2dnUVZ_vipnZ2d@comcast.com>
Lines: 68
NNTP-Posting-Host: 71.198.121.37
```

```
X-Trace: sv3-fW2iZka6ypy+FC2KQ8WBXQneq1RD1skcEKub4vAKYEp/AO4cRcgBh5dkP8GXUJk/uQ58/
hBGgvvtglK!XK63C1hFEC/4FI3Ow/
qsZ3D1Ju+GDAMl4+pcMcQYMzK1RMme4G5d9o47a2XhEIOPd8yTOAgRLOaF!
38cm5RCN9MxvZiqB5ZPBCVhYGw==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8443
```

jimspeer@jimspeer.org wrote:

>
>
> I don't much like the receivers I've used in contemporary tranceivers
> -- the general coverage synthisized open front end ones. (I hasten to
> add I haven't used any of the $4000 rigs; can't afford them). But the
> ones I have used seem plagued with near-signal desensitization, front
> end overload, etc., and I suppose all that comes from putting the
> selectivity so far downstream.
>
> I'm almost tempted to get an old 75s4 and shut up, but I really don't
> need another room heater, so, instead, I'm thinking of building my own
> receiver along the lines laid down by the late Doug DeMaw in his _QRP
> Notebook_. Single conversion 160m superhet with Collins mechanical
> filters in the IF and a series of down-converters for the other bands.
> Anybody got any experience with the DeMaw Design?
>
> Jim, K5YUT

There was a project to design a REALLY good sigle conversion ham radio and here is the website:

http://www.warc.org.uk/cdg2000/The%20CDG2000%20Transceiver.htm

It was designed to have a fantastic dynamic range and, after seeing some of the schematics, it has quite a few good ideas. The mixers and crystal filters are worth studying.

One of the designers made a helical coil VCO with really good phase noise, although the mechanical details were complex.   These days, I'd want to look into the AD9954 DDS design.

Probably still have to do something about DDS spurs, but they are fairly low as is.

==================

So, it seems to me that there are a lot of designs for homebrew gear. You need to look at your specific requirements to see what will suit you.

In my case, I live in a very RF HOT location, with quite a few powerful signals.   I might take the extra effort to go for maximum dynamic range. Probably ovekill for most ham locations, but necessary for me.

Jim   N6BIU

--

15:10 Pacific Time Zone
Dec 26 2006

International Time
23:10 UTC
26.12.2006

From 2431830081546340642
X-Google-Thread: fc2a5,106b259178bf17bd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a3g2000cwd.googlegroups.com!not-for-mail
From: "bcdlr" <on30ng@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal ham receiver
Date: 26 Dec 2006 19:20:41 -0800
Organization: http://groups.google.com
Lines: 15
Message-ID: <1167189641.150792.293730@a3g2000cwd.googlegroups.com>
References: <1166888452.256055.166010@48g2000cwx.googlegroups.com>
   <frcrme.o8h.ln@fe06.highwinds-media.phx>
   <Ufudnas0JJgQNgzYnZ2dnUVZ_vipnZ2d@comcast.com>
NNTP-Posting-Host: 74.135.146.232
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167189647 2472 127.0.0.1 (27 Dec 2006 03:20:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Dec 2006 03:20:47 +0000 (UTC)
In-Reply-To: <Ufudnas0JJgQNgzYnZ2dnUVZ_vipnZ2d@comcast.com>
User-Agent: G2/1.0

```
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.9)
Gecko/20061206 Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a3g2000cwd.googlegroups.com; posting-host=74.135.146.232;
   posting-account=cHaz4A0AAABSvgBXdvZeKRmzV_BI715_
Xref: g2news2.google.com rec.radio.amateur.homebrew:8444
```

Guys, this is has been an interesting discussion. I wish I was more
knowledgeable - I would venture out building like that but I just don't
know enough.
---
I'm kind of starting over. Long story...
What would be a good receiver - or good enough to listen for VFOs, test
and build, etc.
Or better yet what should I avoid?
What about something like the Ten-Tec 1056 kit and some way to band
switch - maybe modules...
It's kind of a catch 22 - I have to have a receiver to build one (or
transmitter).

Dan KB9JLO

```
From 785448449250863395
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!79g2000cws.googlegroups.com!not-for-
mail
From: "cmdr buzz corey" <cmdr-buzz-corey@mailcity.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: A Christmas Present Everyone Can Afford
Date: 26 Dec 2006 19:44:23 -0800
Organization: http://groups.google.com
Lines: 8
Message-ID: <1167191063.531097.116280@79g2000cws.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
   <1166664825.458969.90380@80g2000cwy.googlegroups.com>
   <1166665136.932220.62410@73g2000cwn.googlegroups.com>
   <1166677493.343119.68440@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 70.57.169.105
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167191069 5919 127.0.0.1 (27 Dec 2006 03:44:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Dec 2006 03:44:29 +0000 (UTC)
In-Reply-To: <1166677493.343119.68440@80g2000cwy.googlegroups.com>
```

```
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 79g2000cws.googlegroups.com; posting-host=70.57.169.105;
   posting-account=ANMgdQ0AAAA_X09SagkYnptM5IJu1UIz
Xref: g2news2.google.com rec.radio.amateur.policy:60289
rec.radio.amateur.misc:27398 rec.radio.cb:24065 rec.radio.amateur.homebrew:8445
```

an old idiot wrote:

> the post is is NOT legit here it is spam and you have posted it what 50
> tiemes?

What the hell is "tiemes"?

```
From -368652458762153150
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!42g2000cwt.googlegroups.com!not-for-
mail
From: "cmdr buzz corey" <cmdr-buzz-corey@mailcity.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: Tri-Faced Robesin Strikes Out Again
Date: 26 Dec 2006 19:47:45 -0800
Organization: http://groups.google.com
Lines: 8
Message-ID: <1167191264.971441.148160@42g2000cwt.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
   <72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
   <1166788359.491358.56780@a3g2000cwd.googlegroups.com>
   <1166792384.673664.20000@80g2000cwy.googlegroups.com>
   <1166845903.893439.54470@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 70.57.169.105
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167191269 6439 127.0.0.1 (27 Dec 2006 03:47:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Dec 2006 03:47:49 +0000 (UTC)
In-Reply-To: <1166845903.893439.54470@80g2000cwy.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
```

```
Injection-Info: 42g2000cwt.googlegroups.com; posting-host=70.57.169.105;
   posting-account=ANMgdQ0AAAA_X09SagkYnptM5IJu1UIz
Xref: g2news2.google.com rec.radio.amateur.policy:60291
rec.radio.amateur.misc:27400 rec.radio.cb:24066 rec.radio.amateur.homebrew:8446
```

hot-ham-and-cheese@hotmail.com wrote:

> I pointed out that MARS absolutely has non-amateur leadership,
> non-amateur participants, and an entirely non-amateur mission.

Well, that certainly shows your ignorance.

```
From 4595670824811032854
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!bloom-
beacon.mit.edu!news2.wam.umd.edu!elk.ncren.net!usenet01.sei.cmu.edu!news.cse.ohio-
state.edu!news.maxwell.syr.edu!nntpserver.com!zeus.nntpserver.com!
hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: A Christmas Present Everyone Can Afford
Date: Tue, 26 Dec 2006 22:48:33 -0500
Message-ID: <s7r3p2tvo7h59ri4a0ft9l8fv1nq5osq5a@4ax.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<1166664825.458969.90380@80g2000cwy.googlegroups.com>
<1166665136.932220.62410@73g2000cwn.googlegroups.com>
<1166677493.343119.68440@80g2000cwy.googlegroups.com>
<1167191063.531097.116280@79g2000cws.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 13
NNTP-Posting-Date: 27 Dec 2006 02:54:06 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:60293
rec.radio.amateur.misc:27402 rec.radio.cb:24067 rec.radio.amateur.homebrew:8447
```

On 26 Dec 2006 19:44:23 -0800, "cmdr buzz corey"
<cmdr-buzz-corey@mailcity.com> wrote:

>
>an old idiot wrote:

```
>
>> the post is is NOT legit here it is spam and you have posted it what 50
>> tiemes?
>
>What the hell is "tiemes"?

poor cartoon chartacter can't figure anything out
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From -3113953676155185121
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
news.maxwell.syr.edu!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-
for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: Tri-Faced Robesin Strikes Out Again
Date: Tue, 26 Dec 2006 22:50:35 -0500
Message-ID: <rbr3p29gm2q0tb6n5rk4u122vho1d5hod8@4ax.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
<1166788359.491358.56780@a3g2000cwd.googlegroups.com>
<1166792384.673664.20000@80g2000cwy.googlegroups.com>
<1166845903.893439.54470@80g2000cwy.googlegroups.com>
<1167191264.971441.148160@42g2000cwt.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 13
NNTP-Posting-Date: 27 Dec 2006 02:56:07 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:60294
rec.radio.amateur.misc:27403 rec.radio.cb:24068 rec.radio.amateur.homebrew:8448

On 26 Dec 2006 19:47:45 -0800, "cmdr buzz corey"
<cmdr-buzz-corey@mailcity.com> wrote:

>
>hot-ham-and-cheese@hotmail.com wrote:
```

```
>
>> I pointed out that MARS absolutely has non-amateur leadership,
>> non-amateur participants, and an entirely non-amateur mission.
>
>Well, that certainly shows your ignorance.

no oh foolish cartoon chartacter
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From 6517159469341299651
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!48g2000cwx.googlegroups.com!not-for-
mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: 26 Dec 2006 20:22:57 -0800
Organization: http://groups.google.com
Lines: 26
Message-ID: <1167193377.913685.18540@48g2000cwx.googlegroups.com>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
   <1167106110.951129.298910@73g2000cwn.googlegroups.com>
   <1167162284.567143.213250@i12g2000cwa.googlegroups.com>
   <F8gkh.12138$3v6.6332@bignews8.bellsouth.net>
NNTP-Posting-Host: 4.239.171.253
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167193384 11464 127.0.0.1 (27 Dec 2006 04:23:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Dec 2006 04:23:04 +0000 (UTC)
In-Reply-To: <F8gkh.12138$3v6.6332@bignews8.bellsouth.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 48g2000cwx.googlegroups.com; posting-host=4.239.171.253;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8449


ken scharf wrote:
> julian814 wrote:
> > Managed to find a regenerative receiver based on the 12AT7 tube. I've
> > been told I can substitute one of my 12AV6 tubes without a problem, so
> > that looks promising.
> >
```

> > I have some twin triode tubes, as well. (6FQ7, 6BZ7 and 4BC8) I've been
> > wondering if I couldn't make some one tube receivers with them. (Use
> > one triode for regeneration, the other an amplifier.) As for the rest
> > of the tubes I have, I'd be willing to sell or swap for parts I'll
> > need.
> >
> > Ralph
> >
> http://www.lindsaybks.com/bks/twin/index.html

I think this link might be more helpful and cheaper.

http://dzabcik.home.texas.net/doerle.html

Of course, it doesn't have Lindsay's notes on using newer tubes.

Ralph

```
From -4225456053300304104
X-Google-Thread: fc2a5,106b259178bf17bd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 27 Dec 2006 00:27:12 -0600
From: "Jim" <kill-spam@no-spam.org>
Newsgroups: rec.radio.amateur.homebrew
References: <1166888452.256055.166010@48g2000cwx.googlegroups.com>
<frcrme.o8h.ln@fe06.highwinds-media.phx>
<Ufudnas0JJgQNgzYnZ2dnUVZ_vipnZ2d@comcast.com>
<1167189641.150792.293730@a3g2000cwd.googlegroups.com>
Subject: Re: Ideal ham receiver
Date: Tue, 26 Dec 2006 22:27:11 -0800
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-Antivirus: avast! (VPS 0662-2, 12/26/2006), Outbound message
X-Antivirus-Status: Clean
Message-ID: <04GdncbAH9rdjw_YnZ2dnUVZ_qunnZ2d@comcast.com>
Lines: 38
NNTP-Posting-Host: 71.198.121.37
X-Trace: sv3-cNjgX13lpl+8wOVdhMrDZxtZ7mXWhPxm//
9puZ0Krw6kTq1f3xlRhS8o1z6tbPg+Go+f+g/8IG2ufO/!bNKZrGhWPkCsVuhK8rg8z/6MNbPfrw/
+yOH0eU65eIjvvtEF4UbqzDaGPTmiMBly7M1tpYGbKvWP!6I4dgwvw1FNn1Nx/koXHsP9j2Q==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
```

X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8450

Well, for a reasonable starting point, the KK7B line of direct conversion radios has a lot going for it.   Good performance in a small package, and it can be set up for most frequencies by providing an LO nad a 90' shift for the LO in the band you want to play with.

A kit can be purchased from Kanga which has all the parts needed.   They also offer the microR2 which was in the recent QST article.

http://www.kangaus.com/micror2_receiver.htm

That particular kit is set up for 40 meters, but it'd serve as an excellent starting point.

Kanga also has the slightly more general purpose miniR2 the does not ave an onboard VFO, so it is easier to use on other frequencies.

The R2 series have good dynamic ranges, and make pretty good rigs.   No AGC, which takes some getting used to, but fun to use.

Jim   N6BIU

--

22:25 Pacific Time Zone
Dec 26 2006

International Time
06:25 UTC
27.12.2006

From -3410575680543304725
X-Google-Thread: fc2a5,b0b7c956a377fc68
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 27 Dec 2006 06:53:07 -0600

Date: Wed, 27 Dec 2006 12:53:07 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WTD:MSR-2000 VHF XMTR
References: <Dm%jh.32705$923.28123@newsfe17.lga>
<4111p2lqflevm8hbttth4ia9m2v3lvnlt3@4ax.com>
<wqCdnYpJeKFprQzYnZ2dnUVZ_u2mnZ2d@bright.net> <emrkbo$rrk$1@theodyn.ncf.ca>
In-Reply-To: <emrkbo$rrk$1@theodyn.ncf.ca>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <_JOdnUcX0Nwu8Q_YnZ2dnUVZ_uKknZ2d@bright.net>
Lines: 16
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-q5tBa0nS9MqdszUE79FbpPjw74amG7HVAA87ft4oGxA0Qe/
d45TiFPlB75pdffwVUMeRwnnkHBSkOMD!yNWbKGZSrShjTjg/
kaMfXZokrEZEKSxZoA+1DkKPUyRbdxHGMD+KM5/ebZ8xe5Aw1z3EYbdEc21h!EUp8LHYiQA==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8451

There is according to my newsreader. I am subscribed to it. Maybe
there really is no such group, but I am able to subscribe and
unsubscribe from it with my service provider.

Scott
N0EDV

Michael Black wrote:

> Scott (acepilot@bloomer.net) writes:
>

>>
>
> There is no "rec.radio.amateur.swap" It's rec.radio.swap
>

From -2773773622727425649
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit

```
Path: g2news2.google.com!postnews.google.com!42g2000cwt.googlegroups.com!not-for-
mail
From: "Not Cocksucker Lloyd" <not_time_turd_lloyd@yahoo.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: Tri-Faced Robesin Strikes Out Again
Date: 27 Dec 2006 06:34:00 -0800
Organization: http://groups.google.com
Lines: 17
Message-ID: <1167230040.019945.157050@42g2000cwt.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
   <72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
   <1166788359.491358.56780@a3g2000cwd.googlegroups.com>
   <1166792384.673664.20000@80g2000cwy.googlegroups.com>
   <1166845903.893439.54470@80g2000cwy.googlegroups.com>
   <1167191264.971441.148160@42g2000cwt.googlegroups.com>
   <rbr3p29gm2q0tb6n5rk4u122vho1d5hod8@4ax.com>
NNTP-Posting-Host: 65.54.154.152
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1167230044 6903 127.0.0.1 (27 Dec 2006 14:34:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Dec 2006 14:34:04 +0000 (UTC)
In-Reply-To: <rbr3p29gm2q0tb6n5rk4u122vho1d5hod8@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 42g2000cwt.googlegroups.com; posting-host=65.54.154.152;
   posting-account=NYdx0Q0AAAACkSt6kWea8S56_8dZU8tl
Xref: g2news2.google.com rec.radio.amateur.policy:60310
rec.radio.amateur.misc:27412 rec.radio.cb:24075 rec.radio.amateur.homebrew:8452
```

Mark@kb9rqz.aprs wrote:
> On 26 Dec 2006 19:47:45 -0800, "cmdr buzz corey"
> <cmdr-buzz-corey@mailcity.com> wrote:
>
> >
> >hot-ham-and-cheese@hotmail.com wrote:
> >
> >> I pointed out that MARS absolutely has non-amateur leadership,
> >> non-amateur participants, and an entirely non-amateur mission.
> >
> >Well, that certainly shows your ignorance.
>
> no oh foolish cartoon chartacter

Yes, Markie, you show your ignorance every time you post.

From -5604102069824711722
X-Google-Thread: fc2a5,b0b7c956a377fc68
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 27 Dec 2006 09:41:13 -0600
Date: Wed, 27 Dec 2006 15:41:13 +0000
From: charlie <wehatespam@wymsey.co.uk>
User-Agent: Thunderbird 1.5.0.9 (X11/20060911)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WTD:MSR-2000 VHF XMTR
References: <Dm%jh.32705$923.28123@newsfe17.lga>
<4111p2lqflevm8hbttth4ia9m2v3lvnlt3@4ax.com>
<IJ6dncSBZrFFsgzYnZ2dnUVZ_oernZ2d@bright.net>
<bvn2p2tq1jasopip7bj7gggocd8omtl9ks@4ax.com>
In-Reply-To: <bvn2p2tq1jasopip7bj7gggocd8omtl9ks@4ax.com>
X-Enigmail-Version: 0.94.1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-ID: <L5CdndZjQ_6ECQ_YRVnyhQA@pipex.net>
Lines: 26
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X-Trace: sv3-W6nTvjv5yKBS0jZfvHdkR4Kq/
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cUUdkD0fkfnKsqKIxlVFXcMwSrvb8eOi+732uPjBAKGZkw6PGVV+C3BWcuAhww85fQOmBvzvk62I!
TWvPFRrvmAet
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8453

Bill Turner wrote:
<SNIP>
>
> Wanting to buy a spare circuit board has to do with repairing, not
> homebrewing. Homebrewing means building a new piece of equipment
> essentially from scratch.
>
> Bill, W6WRT

Oh come on, whatever your security problems, whatever your need to
be a pedant, get it sorted and find some real issues to deal with.

If I was looking for something a bit unusual then a group of
homebrewers is one the first places I would try. Your definition of
this group is far too narrow, surely it also includes fault
finding, problems and repairing. The common link is that these are

things we do ourselves rather ran to the nearest shop.

I just wish I had a spare board to offer :)

Charlie.

--
www.wymsey.co.uk

From 8936155783314412445
X-Google-Thread: fcc6e,2ae97e7b90a2c8dc
X-Google-Thread: 108122,2ae97e7b90a2c8dc
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.deskmedia.com!
news.deskmedia.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 27 Dec 2006 10:23:21 -0600
From: "JIM" <jslaird@goldfieldaccess.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
<blbbo25epdssnp6sk1g1ss5sc3dmuc0007@4ax.com>
Subject: Re: A moment of silence my friends for a silent key.
Date: Wed, 27 Dec 2006 10:22:55 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <SNednTkkkupkAA_YnZ2dnUVZ_rqhnZ2d@deskmedia.com>
Lines: 48
NNTP-Posting-Host: 63.168.115.135
X-Trace: sv3-JK0Tn2dYVAxaVZQ/0Hvyc20sp38a+fYG0Al4fExKbHGZUp3W84Gu3yf/
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ELxa6eEQyjdw02gbVEEEf2f!X5aIyzWMd5WRJrloDqA=
X-Complaints-To: abuse@deskmedia.com
X-DMCA-Complaints-To: abuse@deskmedia.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.antenna:23547
rec.radio.amateur.equipment:7699 rec.radio.amateur.homebrew:8454

"Bill Turner" <noway@nowhow.com> wrote in message
news:blbbo25epdssnp6sk1g1ss5sc3dmuc0007@4ax.com...

> Please folks, do not reply to these off topic posts.

>
> If these idiots never get any replies, they will eventually give up
> and go away.
>
> Thanks,
>
> Bill, W6WRT

I just tuned into this News Group to find some and not all ham's like to speak better of there self's than they act.

I thought that was why people became Ham radio Operators and had gotten away from C.B. God I hate that C.B. I get sick thinking about it. I've been a S S B Radio Operator for a long time. Yes I prefer to that think that there are Three types of Radio. No need to go there and get my but kicked by the know it's on here. It has been said so many times no matter what the Hobby. There is always someone out there trying to take the fun out of anything good. And I just seen some of them here. I have been wanting to become a Ham operator for I'll bet at least 35 or 40 years. The code has always stopped me. And the But head's and those with attitude Overly goody two shoes crowds. I have a learning disorder. It does not make me retarded, it simply means that I learn better for me in a hands on manner. Code is plainly just to much for people like me.

Now My point to all this is once again I'm hanging on a tread, I just don't know why I would want to go into Ham and put up with these too kinds people when I'm already doing it and I don't like it any better now. The only plus that I can see at this point is more Frequencies. Ham was a Hobby that was intended to be HELPFUL IN ALL OF IT'S ASPECTS..........

Now look what it's coming to. Some don't want the no Code, other's do and if they remove the code I'm afraid it will let in all the nut's .Well my friends you folks all ready have them. And in the mean time your keeping Good honest people out. Honest people aren't Born........ It takes a Very strong willingness now days to be one.. Ask me it's hard and we don't always win so . Your art form, your hobby no matter what your calling it today is steadily going by the way side. And some of you are so caught up in yourselves that you just can't see it. Some of you are the Sign of your time. I'll Bet there are a lot of old timer's just shaking in there Graves at the way you have been presenting the hobby that they helped to grow. Kind people used to run the Ham band's and there are still some out there are you one of them. Or do you just think you are Action's speak louder and farther then the Air waves. I'm not even a Hammer and I can see that...... I'll be listening......

From 7332736099829887592
X-Google-Thread: fcc6e,2ae97e7b90a2c8dc
X-Google-Thread: 108122,2ae97e7b90a2c8dc
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!

```
headwall.stanford.edu!newshub.sdsu.edu!nntpserver.com!zeus.nntpserver.com!
hydra.nntpserver.com!not-for-mail
From: "Mark@kb9rqz.aspr" <Mark@kp9rqz.asr>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
<blbbo25epdssnp6sk1g1ss5sc3dmuc0007@4ax.com>
<SNednTkkkupkAA_YnZ2dnUVZ_rqhnZ2d@deskmedia.com>
Subject: Re: A moment of silence my friends for a silent key.
Date: Wed, 27 Dec 2006 12:52:04 -0500
Organization: punce.org
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Response
Lines: 34
Message-ID: <4592a60a$0$15425$88260bb3@free.teranews.com>
NNTP-Posting-Date: 27 Dec 2006 16:57:47 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:23555
rec.radio.amateur.equipment:7700 rec.radio.amateur.homebrew:8455


"JIM" <jslaird@goldfieldaccess.net> wrote in message
news:SNednTkkkupkAA_YnZ2dnUVZ_rqhnZ2d@deskmedia.com...
>
> "Bill Turner" <noway@nowhow.com> wrote in message
> news:blbbo25epdssnp6sk1g1ss5sc3dmuc0007@4ax.com...
>> Please folks, do not reply to these off topic posts.
>>
>> If these idiots never get any replies, they will eventually give up
>> and go away.
>>
>> Thanks,
>>
>> Bill, W6WRT
>
>
> I just tuned into this News Group to find some and not all ham's like to
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> I thought that was why people became Ham radio Operators and had gotten
> away from C.B. God I hate that C.B. I get sick thinking about it.  I've
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> that there are Three types of Radio. No need to go there and get my but
> kicked by the know it's on here. It has been said so many times no matter
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> out of anything good. And I just seen some of them here. I have been
> wanting to become a Ham operator for I'll bet at least 35 or 40 years. The
> code has always stopped me.  I have a learning disorder. It does not make
> me retarded
indeed it do make you reatrted im fact you give reterds a badname is just
the sume of your delsuion an hag dug youself in two deep aigan so in colsing
```

```
with the punce gotcha do you hav anyting cognet two say?
http://kb9rqz.blogspot.com/




--
Posted via a free Usenet account from http://www.teranews.com




From 1042484088639042638
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: Tri-Faced Robesin Strikes Out Again
Date: Wed, 27 Dec 2006 13:11:39 -0500
Message-ID: <hpd5p29bvj4v62gv4uqf622opfd7rcqfi3@4ax.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
<1166788359.491358.56780@a3g2000cwd.googlegroups.com>
<1166792384.673664.20000@80g2000cwy.googlegroups.com>
<1166845903.893439.54470@80g2000cwy.googlegroups.com>
<1167191264.971441.148160@42g2000cwt.googlegroups.com>
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<1167230040.019945.157050@42g2000cwt.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 23
NNTP-Posting-Date: 27 Dec 2006 17:17:22 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:60337
rec.radio.amateur.misc:27430 rec.radio.cb:24083 rec.radio.amateur.homebrew:8456

On 27 Dec 2006 06:34:00 -0800, "Not Cocksucker Lloyd"
<not_time_turd_lloyd@yahoo.com> wrote:

>
>Mark@kb9rqz.aprs wrote:
>> On 26 Dec 2006 19:47:45 -0800, "cmdr buzz corey"
>> <cmdr-buzz-corey@mailcity.com> wrote:
>>
>> >
```

>> >hot-ham-and-cheese@hotmail.com wrote:
>> >
>> >> I pointed out that MARS absolutely has non-amateur leadership,
>> >> non-amateur participants, and an entirely non-amateur mission.
>> >
>> >Well, that certainly shows your ignorance.
>>
>> no oh foolish cartoon chartacter
>
>Yes, Markie, you show your ignorance every time you post.

no woger you do and the cartoon chararter MARS merely uses memeber of
the ARS it is otherwise unconceted with the ARS
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -7424606160440347780
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews3.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
<1167106110.951129.298910@73g2000cwn.googlegroups.com>
<1167162284.567143.213250@i12g2000cwa.googlegroups.com>
<F8gkh.12138$3v6.6332@bignews8.bellsouth.net>
<1167193377.913685.18540@48g2000cwx.googlegroups.com>
In-Reply-To: <1167193377.913685.18540@48g2000cwx.googlegroups.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 46
Message-ID: <reAkh.10099$n57.8441@bignews3.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcbobdjmjgibdpddkgkoepbbmgojaahccfgiml
kppbhcodhjhpilklbokbojkncoffpeihbbjoldfngcmehnnlkkpcaleelkljikjfppkahfiolloonl
NNTP-Posting-Date: Wed, 27 Dec 2006 14:57:11 EST
Organization: BellSouth Internet Group
Date: Wed, 27 Dec 2006 14:57:24 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8457

julian814 wrote:
> ken scharf wrote:
>> julian814 wrote:
>>> Managed to find a regenerative receiver based on the 12AT7 tube. I've
>>> been told I can substitute one of my 12AV6 tubes without a problem, so
>>> that looks promising.
>>>
>>> I have some twin triode tubes, as well. (6FQ7, 6BZ7 and 4BC8) I've been
>>> wondering if I couldn't make some one tube receivers with them. (Use
>>> one triode for regeneration, the other an amplifier.) As for the rest
>>> of the tubes I have, I'd be willing to sell or swap for parts I'll
>>> need.
>>>
>>> Ralph
>>>
>> http://www.lindsaybks.com/bks/twin/index.html
>
> I think this link might be more helpful and cheaper.
>
> http://dzabcik.home.texas.net/doerle.html
>
> Of course, it doesn't have Lindsay's notes on using newer tubes.
>
>
> Ralph
>
Well If you are familiar with the book you know he showed a version
using a 6sl7gt tube. The 12at7 triode is identical to one half of the
6sl7 (except for heater voltage) so you can use a pair of these tubes in
the same circuit.

I built the #19 version, which worked ok but this tube is VERY
microphonic. I suspect the 12at7 will not have that problem.

Another interesting version of the theme was a single tube regen that
appeared in 'poptronics. It used a 6af11 compactron. This tube has two
triodes and a power pentode, so it will drive a speaker.

Also the current issue of QST shows a very simple untuned rf amplifier
that can be added to any tube type regen receiver. It uses only 7 parts
(a resister, 3 caps, 1 diode, an rf choke, and a transistor). The rf
choke and one of the caps can be eliminated if you directly couple the
output of the rf amp to the receiver via a link added to the input coil.
One of the caps and the diode are used to steal 9v dc from the 6.3v
heater supply. I would recommend adding this as it makes the receiver
easier to tune by isolating it from the antenna.

From -3890108011147358441
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit

```
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews3.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
<1167106110.951129.298910@73g2000cwn.googlegroups.com>
<1167162284.567143.213250@i12g2000cwa.googlegroups.com>
<F8gkh.12138$3v6.6332@bignews8.bellsouth.net>
<1167193377.913685.18540@48g2000cwx.googlegroups.com>
<reAkh.10099$n57.8441@bignews3.bellsouth.net>
In-Reply-To: <reAkh.10099$n57.8441@bignews3.bellsouth.net>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 47
Message-ID: <bfAkh.10100$n57.5969@bignews3.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcbokgjegnoidjljlomblpmkbjphalfpigojml
kppbhcodhjhpilklbokbojkncoffpeihbbjoldfngcmehnnlkkpcaleelkljikonobelcbknckakif
NNTP-Posting-Date: Wed, 27 Dec 2006 14:57:59 EST
Organization: BellSouth Internet Group
Date: Wed, 27 Dec 2006 14:58:13 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8458

ken scharf wrote:
> julian814 wrote:
>> ken scharf wrote:
>>> julian814 wrote:
>>>> Managed to find a regenerative receiver based on the 12AT7 tube. I've
>>>> been told I can substitute one of my 12AV6 tubes without a problem, so
>>>> that looks promising.
>>>>
>>>> I have some twin triode tubes, as well. (6FQ7, 6BZ7 and 4BC8) I've been
>>>> wondering if I couldn't make some one tube receivers with them. (Use
>>>> one triode for regeneration, the other an amplifier.) As for the rest
>>>> of the tubes I have, I'd be willing to sell or swap for parts I'll
>>>> need.
>>>>
>>>> Ralph
>>>>
>>> http://www.lindsaybks.com/bks/twin/index.html
>> I think this link might be more helpful and cheaper.
>>
>> http://dzabcik.home.texas.net/doerle.html
>>
>> Of course, it doesn't have Lindsay's notes on using newer tubes.
```

>>
>>
>> Ralph
>>
> Well If you are familiar with the book you know he showed a version
> using a 6sl7gt tube. The 12at7 triode is identical to one half of the
> 6sl7 (except for heater voltage) so you can use a pair of these tubes in
> the same circuit.
>
> I built the #19 version, which worked ok but this tube is VERY
> microphonic. I suspect the 12at7 will not have that problem.
>
> Another interesting version of the theme was a single tube regen that
> appeared in 'poptronics. It used a 6af11 compactron. This tube has two
> triodes and a power pentode, so it will drive a speaker.
>
> Also the current issue of QST shows a very simple untuned rf amplifier
> that can be added to any tube type regen receiver. It uses only 7 parts
> (a resister, 3 caps, 1 diode, an rf choke, and a transistor). The rf
> choke and one of the caps can be eliminated if you directly couple the
> output of the rf amp to the receiver via a link added to the input coil.
> One of the caps and the diode are used to steal 9v dc from the 6.3v
> heater supply. I would recommend adding this as it makes the receiver
> easier to tune by isolating it from the antenna.
opps I meant 12at6 tube.

From 5615408854303460999
X-Google-Thread: fc2a5,115bcafc1f0ec553,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews4.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: DDS kit
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 28
Message-ID: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
npbhgpngjbkmjfegdbdpiflmbcekedmfhojhikkbagflhcbopjgeljiphninobpkkgnmgkcidejbjjeljh
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NNTP-Posting-Date: Wed, 27 Dec 2006 20:09:44 EST
Organization: BellSouth Internet Service
Date: Wed, 27 Dec 2006 20:14:32 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8459

I bought one of these kits to make use of a sample AD9851 chip I got from Analog Devices a few years ago.

http://www.amqrp.org/kits/dds60/index.html

I knew it was hopeless to bread board something with this chip, but even with a PC board soldering something with such close lead spacing is a challenge (especially when you're past 50 with failing close in vision and less than rock solid stable hands). Still I figured I'd give it a try. Armed with the smallest soldering tip available for my Weller PES51 soldering station, a good magnifier lamp AND a binocular microscope I gave it a try to solder the chip to the board.

Well there is good news and bad news. The bad news is that it is impossible to solder the chip by hand without creating solder bridges. The good news is that I did a good enough job to get the chip 99% perfectly centered on the solder pads, and you can remove the solder bridges with solder wick without removing the chip from the PC board.

It would have been easier with thiner solder (I had .021" dia solder) and a thiner soldering iron tip, but inspection with the microscope shows no shorts, and it looks like all the pins are properly soldered. Naked eye it doesn't look pretty but it should work.

Now to solder those chip caps and resistors! (They should be easier, the AD9851 was the worst part to place with the tight spacing, all the other parts have lead spacing at least twice as wide).

From 42250881636484733
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!sn-xt-sjc-03!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS kit
Date: Thu, 28 Dec 2006 01:20:58 -0000
Organization: Home for Obscure Mythical Beings
Message-ID: <12p66vqe98jm331@corp.supernews.com>
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
X-Complaints-To: abuse@supernews.com
Lines: 22
Xref: g2news2.google.com rec.radio.amateur.homebrew:8460

In article <sPEkh.12314$641.3726@bignews4.bellsouth.net>,
ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net> wrote:

>Well there is good news and bad news. The bad news is that it is
>impossible to solder the chip by hand without creating solder bridges.
>The good news is that I did a good enough job to get the chip 99%
>perfectly centered on the solder pads, and you can remove the solder
>bridges with solder wick without removing the chip from the PC board.

I've seen people recommend this as the preferred hand-soldering
approach for dealing with small-pitch surface mount parts. Don't
worry about creating bridges... use a bit of liquid flux on the pins,
get a nice blob of fresh solder onto the tip of the iron, and then
just gently drag the molten solder-ball along the pins and get them
soldered to the traces. Then, go back over it with solder-wick and a
bit more liquid flux, and wick away the excess.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Hosting the Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From 7634982605038740659
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews7.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS kit
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
<12p66vqe98jm331@corp.supernews.com>
In-Reply-To: <12p66vqe98jm331@corp.supernews.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 26
Message-ID: <iBFkh.11973$cB6.11909@bignews7.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
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fmolpfloinkooaklbokbojkncoffpeihbbjoldfngcmehnminonfhkpdamaghpgghipkbjhfldconn
NNTP-Posting-Date: Wed, 27 Dec 2006 21:02:54 EST
Organization: BellSouth Internet Group
Date: Wed, 27 Dec 2006 21:03:08 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8461

Dave Platt wrote:

```
> In article <sPEkh.12314$641.3726@bignews4.bellsouth.net>,
> ken scharf  <wa2mzeNOSPAMBOTS@bellsouth.net> wrote:
>
>> Well there is good news and bad news.  The bad news is that it is
>> impossible to solder the chip by hand without creating solder bridges.
>> The good news is that I did a good enough job to get the chip 99%
>> perfectly centered on the solder pads, and you can remove the solder
>> bridges with solder wick without removing the chip from the PC board.
>
> I've seen people recommend this as the preferred hand-soldering
> approach for dealing with small-pitch surface mount parts.  Don't
> worry about creating bridges... use a bit of liquid flux on the pins,
> get a nice blob of fresh solder onto the tip of the iron, and then
> just gently drag the molten solder-ball along the pins and get them
> soldered to the traces.  Then, go back over it with solder-wick and a
> bit more liquid flux, and wick away the excess.
>
I did smear the pc lands under the chip with paste flux first.  Not a
heavy coat, just lightly applied.  It does help.
I've watched the technicians at work hand solder even finer pitch chips.
 One young woman has very good close in eyesight and works without a
magnifier.  She does have to clean up with the solder-wick, but makes
machine like perfect solder connections.  (she makes it look EASY!)
Whats hard is doing an entire board in one sitting without getting a
visual version of writer's cramp. (eye strain)


From -5314395877544832543
X-Google-Thread: fc2a5,106b259178bf17bd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!42g2000cwt.googlegroups.com!not-for-
mail
From: "laura halliday" <marsgal42@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal ham receiver
Date: 27 Dec 2006 21:10:58 -0800
Organization: http://groups.google.com
Lines: 33
Message-ID: <1167282658.688001.110070@42g2000cwt.googlegroups.com>
References: <1166888452.256055.166010@48g2000cwx.googlegroups.com>
   <frcrme.o8h.ln@fe06.highwinds-media.phx>
   <Ufudnas0JJgQNgzYnZ2dnUVZ_vipnZ2d@comcast.com>
   <1167189641.150792.293730@a3g2000cwd.googlegroups.com>
NNTP-Posting-Host: 207.6.198.34
Mime-Version: 1.0
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X-Trace: posting.google.com 1167282664 3600 127.0.0.1 (28 Dec 2006 05:11:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 28 Dec 2006 05:11:04 +0000 (UTC)
In-Reply-To: <1167189641.150792.293730@a3g2000cwd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7) Gecko/
```

20040618,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 42g2000cwt.googlegroups.com; posting-host=207.6.198.34;
   posting-account=hajlLgwAAABnEIYWRhxcLRahLr8hJUY4
Xref: g2news2.google.com rec.radio.amateur.homebrew:8462

bcdlr wrote:
> Guys, this is has been an interesting discussion. I wish I was more
> knowledgeable - I would venture out building like that but I just don't
> know enough.
> ---
> I'm kind of starting over. Long story...
> What would be a good receiver - or good enough to listen for VFOs, test
> and build, etc.
> Or better yet what should I avoid?
> What about something like the Ten-Tec 1056 kit and some way to band
> switch - maybe modules...
> It's kind of a catch 22 - I have to have a receiver to build one (or
> transmitter).

A good receiver is important in any ham shack.

You can build state-of-the-art performance, especially for a single-band receiver. While some have talked about DDS/PLL VFOs, don't underestimate the performance of a good LC VFO built with modern components, after a bit of tweaking to nail down the temperature compensation.

I know you have your heart set on building something, and there have been excellent suggestions in this thread, but it's not a crime to buy your first receiver to give you a known-good building block for further development.

```
Laura Halliday VE7LDH     "That's a totally illegal,
Grid: CN89mg                    madcap scheme. I like it!"
ICBM: 49 16.05 N 122 56.92 W        - H. Pearce
```

From -6155307755197386365
X-Google-Thread: fc2a5,106b259178bf17bd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
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border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!
newsfeed01.sul.t-online.de!t-online.de!news.germany.com!
feeder2.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ideal ham receiver
Message-ID: <24r6p21mok5ndc1k2145hk44f1e3k6mt5v@4ax.com>

References: <1166888452.256055.166010@48g2000cwx.googlegroups.com> <ZRcjh.5330$AY1.1183@bignews5.bellsouth.net>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 37
Date: Thu, 28 Dec 2006 10:01:16 +0200
NNTP-Posting-Host: 195.197.6.96
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1167292756 195.197.6.96 (Thu, 28 Dec 2006 09:59:16 EET)
NNTP-Posting-Date: Thu, 28 Dec 2006 09:59:16 EET
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:8463

On Sat, 23 Dec 2006 11:32:04 -0500, ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net> wrote:

>Yet another idea is a single conversion with a 9mhz IF. Since I have a bunch of surplus 9mhz filters (they are 8 pole units with 3.2 khz bandwidth) I was also thinking of a rig with these. True the filters are a bit wider than common today, but if I put THREE of them in cascade (between IF stages) they should do a good job.

A single 9 MHz IF filter unit with I/Q detection (to handle the opposite sideband) could be an other alternative and do the rest of the filtering in audio stages.

>I would use a DDS VFO,
>but would also used a tuned (not broadband) front end. I have enough toroids and multi section variable caps in the junk box for that.

The _unloaded_ Q values shown by toroid manufacturers are not very spectacular (in the 200-300 range at most). If you aim for a filter loaded Q of 100, there are going to be a considerable loss (several dB), so placing the filter before the first RF amplifier stage will deteriorate the noise figure quite badly, which can be a bad thing on upper HF bands.

With a preselector loaded Q in the 50-100 range would still cover an entire WARC band without tuning and with wider bands and tunable front end filters, a 100-500 kHz segment would still be present at the mixer input at full amplitude. Thus, the mixer would still need to be strong to handle all those signals in that range.

A preselector filter will most definitively help in keeping out strong broadcast band signals (e.g. the strong 49 m BC band in Europe) from the mixer, but it does not help much against strong amateur signals in the same amateur band.

Paul OH3LWR

From -25140189302029009
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 28 Dec 2006 07:39:42 -0600
Date: Thu, 28 Dec 2006 13:39:41 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS kit
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
In-Reply-To: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
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DZtNM+mupg==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8464

One thing you might try "next time"...

Pre-tin the PC pads by heating them with a heat gun, (being careful to not overheat the board) and applying a very small amount of solder to each pad. If you can get the IC pins all lined up with their PC board pads, tack solder one of the corner pins (or one that is easiest to solder without bridging). Use a toothpick (or some other device) to apply gentle down pressure to the IC to keep it from moving. Use the heat gun again (carefully) until the solder melts and the chip should "settle" down into the molten solder. Keep the heat gun moving around all pins to be sure all get down into molten solder. If you happen to have a piece of copper clad PC board, you can practice by putting some solder blobs on it and putting the leads of some sort of junkbox parts on to the solder and heat it up with the heat gun, apply the down pressure to the component and you can get the feel of how far the heat gun should be away from the board and the length of time it takes to melt the solder...

Scott
N0EDV

ken scharf wrote:
> I bought one of these kits to make use of a sample AD9851 chip I got
> from Analog Devices a few years ago.
>
> http://www.amqrp.org/kits/dds60/index.html
>
> I knew it was hopeless to bread board something with this chip, but even
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> bridges with solder wick without removing the chip from the PC board.
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> It would have been easier with thiner solder (I had .021" dia solder)
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> Naked eye it doesn't look pretty but it should work.
>
> Now to solder those chip caps and resistors! (They should be easier,
> the AD9851 was the worst part to place with the tight spacing, all the
> other parts have lead spacing at least twice as wide).
>

From 947747573082193690
X-Google-Thread: fc2a5,115bcafc1f0ec553
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 28 Dec 2006 10:49:47 -0600
Message-ID: <x0Rnj9QHkFFArr@ifwtech.co.uk>
Date: Thu, 28 Dec 2006 16:34:07 +0000
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: DDS kit
References: <sPEkh.12314$641.3726@bignews4.bellsouth.net>
Organization: IFWtech
MIME-Version: 1.0

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X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8465
```

ken scharf wrote:

>
>Now to solder those chip caps and resistors! (They should be easier,
>the AD9851 was the worst part to place with the tight spacing, all the
>other parts have lead spacing at least twice as wide).
>

It's MUCH easier to begin with the easy parts! Start with the largest
chip caps and resistors, continue with the rest of the simple passives,
and then the largest ICs (largest pin spacing).

Finally, when you've honed your SMD skills, solder the large ICs with
the small pin spacings.

And give up the industrial-strength coffee for the duration :-)

--
73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

```
From -6419790464002969625
X-Google-Thread: fc2a5,492bf471860f4186
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 18 Dec 2006 22:10:04 -0600
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: No Code Required Issue
From: Mike Coslo <mcoslo@comcast.net>
References: <no.spam-D502CD.10530317122006@news.verizon.net>
<1obbo25f3r3oh03qsuinki0hsdprmqluq4@4ax.com>
Organization: Your Company
Message-ID: <Xns989DEBAF4AC20mcoslocomcastnet@216.196.97.136>
User-Agent: Xnews/5.04.25
```

Date: Mon, 18 Dec 2006 22:10:04 -0600
Lines: 14
NNTP-Posting-Host: 71.58.71.232
X-Trace:
sv3-5cuDylux6kzViZvzUHUcyM7psSjk1I9epwe55hMtesUQafQONxKkXu3R0bZSLVuDk4EMhRfQWHzcUU
2!XG3syHICbbmoKkjIY+3CLRLnwvX0TUcLzQzopShYSS1vLedVwlk0v8Ob9xLm9EKp8+FM7DOCqMcw!
9iSwxrjBpnsnXw==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8315

Bill Turner <noway@nowhow.com> wrote in
news:1obbo25f3r3oh03qsuinki0hsdprmqluq4@4ax.com:

> Please folks, do not reply to these off topic posts.
>
> If these idiots never get any replies, they will eventually give up
> and go away.

There you go again!

buh-bye!

- 73 de Mike KB3EIA -

From -4861451619165637812
X-Google-Thread: fc2a5,e00f88b77deda7b2
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.250.MISMATCH!transit3.readnews.com!news-out.readnews.com!panix!
panix2.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR and resonance measurements without an MFJ269 or equiv.
Date: Tue, 19 Dec 2006 09:58:41 -0500
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 40
Message-ID: <Pine.NEB.4.64.0612190952030.12003@panix2.panix.com>
References: <em6at1$f9i$1@puck.litech.org>
NNTP-Posting-Host: panix2.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1166540322 3010 166.84.1.2 (19 Dec 2006 14:58:42 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 19 Dec 2006 14:58:42 +0000 (UTC)

In-Reply-To: <em6at1$f9i$1@puck.litech.org>
Xref: g2news2.google.com rec.radio.amateur.homebrew:8316

On Mon, 18 Dec 2006, Mike Andrews wrote:

> Some friends and I have been looking into making antennas for 70 cm. and higher frequencies, but we don't have an MFJ-269; my MFJ-259 tops out at 175 MHz. I _do_, however, have an SWR meter that supposedly works up to 500 MHz(and maybe higher), and an HP 8640B that is good to about 1.2 GHz.
>
> If the SWR meter is sensitive enough, could I get at least ballpark SWR values using the 8640B as a source,

You did not say what an 8640B is. Signal generator? Transmitter? Power out?

Main thing is to get the "forward" power to read something on the meter (preferably full scale, but even if you get half or quarter scale, then you are able to get a rough idea of usabiltiy of the meter). Then see what it shows on the "reflected" scale. Figure ver roughly if the reflected power is half the forward (regardless of the actual location on the meter scale), then you have about 3:1 SWR. Turn the meter around to get an idea if the diodes (and associated circuitry) are well matched for forward and reflected.

I have used a number of el-cheapo CB SWR meters even up on two meters and they work surprisingly well, even more sensitive than ham SWR meters for VHF-UHF, and not that far off of what the ham SWR meters report, and so are good for handie-talkie measurements. So, yes, you should get useful ball park figures.

running the signal through
> the SWR meter to the antenna? Or am I way off in left field?
>
> --
> Mike Andrews, W5EGO
> mikea@mikea.ath.cx
> Tired old sysadmin
>

From -7591981663226389528
X-Google-Thread: fc2a5,e00f88b77deda7b2
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!news.glorb.com!news.litech.org!not-for-mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew

Subject: Re: SWR and resonance measurements without an MFJ269 or equiv.
Date: Tue, 19 Dec 2006 15:27:38 +0000 (UTC)
Organization: Me?
Lines: 63
Sender: mikea@mikea.ath.cx
Message-ID: <em90da$7qc$1@puck.litech.org>
References: <em6at1$f9i$1@puck.litech.org>
<Pine.NEB.4.64.0612190952030.12003@panix2.panix.com>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1166542058 8012 68.15.203.64 (19 Dec 2006 15:27:38 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Tue, 19 Dec 2006 15:27:38 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:8317

On Tue, 19 Dec 2006 09:58:41 -0500, Straydog <asd@panix.com> wrote in
<Pine.NEB.4.64.0612190952030.12003@panix2.panix.com>:

> On Mon, 18 Dec 2006, Mike Andrews wrote:
>
>> Some friends and I have been looking into making antennas for 70 cm. and higher frequencies, but we don't have an MFJ-269; my MFJ-259 tops out at 175 MHz. I _do_, however, have an SWR meter that supposedly works up to 500 MHz(and maybe higher), and an HP 8640B that is good to about 1.2 GHz.
>>
>> If the SWR meter is sensitive enough, could I get at least ballpark SWR values using the 8640B as a source,
>
> You did not say what an 8640B is. Signal generator? Transmitter? Power out?

Lab-grade RF signal generator, official range from 500 KHz to 1.024 MHz. In practice it's good from 455 KHz up to about 1.2 GHz. Includes FM, AM, and pulse modulation, with either internal modulation at variable frequencies and amplitude (AM) or deviation (FM) or external modulation. Has a very nice 6 1/2 digit counter good up to 1.2 GHz. Output range is from -130 dBm (100 nanoVolts) to +20 dBm (3 Volts) into 50 Ohms.

It's a _very_ nice piece of gear indeed. You can see a picture of mine (and other stuff on the workbench) at

<http://mikea.ath.cx/testgear/index.html>.

> Main thing is to get the "forward" power to read something on the meter (preferably full scale, but even if you get half or quarter scale, then you are able to get a rough idea of usabiltiy of the meter). Then see what it shows on the "reflected" scale. Figure ver roughly if the reflected power is half the forward (regardless of the actual location on the meter

> scale), then you have about 3:1 SWR. Turn the meter around to get an idea
> if the diodes (and associated circuitry) are well matched for forward and
> reflected.

> I have used a number of el-cheapo CB SWR meters even up on two meters and
> they work surprisingly well, even more sensitive than ham SWR meters for
> VHF-UHF, and not that far off of what the ham SWR meters report, and so
> are good for handie-talkie measurements. So, yes, you should get useful
> ball park figures.

That's good to hear. I got to thinking about what an MFJ-259 or -269
does, and decided that I only needed a sensitive-enough SWR meter that
would give reasonably accurate readings from 100 MHz to 1.2 GHz, since
I already had the signal source. Of course, the HP 8640B weighs about
40 pounds, and is a good deal less portable than the MFJ products, but
if I can get this working, I'll be able to do things it won't.

>> running the signal through
>> the SWR meter to the antenna? Or am I way off in left field?

Looks like I'm well inside the ballpark and that I have some design
and construction to do. This should be fun.

Thanks!

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From 8849523713625563099
X-Google-Thread: fc2a5,e00f88b77deda7b2
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 19 Dec 2006 12:36:45 -0600
Date: Tue, 19 Dec 2006 18:36:43 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR and resonance measurements without an MFJ269 or equiv.
References: <em6at1$f9i$1@puck.litech.org>
<Pine.NEB.4.64.0612190952030.12003@panix2.panix.com>
<em90da$7qc$1@puck.litech.org>
In-Reply-To: <em90da$7qc$1@puck.litech.org>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Message-ID: <RY2dnV1vvKygrBXYnZ2dnUVZ_vipnZ2d@bright.net>
Lines: 78
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
YDO2rVriHa+LN8t7YjwQKBKEsjT7SH6bdin9GnGD1NyUeHVeO8N1lbbI5vRQYb2TeYPFpNL+mcWRvu4!
iYYmkj6Db9V27/KVgsWVl8gJGchL69MKyTSLahmHQmnHpNQulCgNvX/M8fHS8YukNbNPRP8vetGx!
bWizaj3DvA==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8318

I don't think using your 8640B as a signal source to read on a wattmeter is going to cut it. +20 dBm is only 100 mW. Unless you have a wattmeter that has a 100 mW or so range, you aren't going to get much needle deflection. The lowest range on my Telewave wattmeter is 5 Watts.

Scott
N0EDV

Mike Andrews wrote:

> On Tue, 19 Dec 2006 09:58:41 -0500, Straydog <asd@panix.com> wrote in <Pine.NEB.4.64.0612190952030.12003@panix2.panix.com>:
>
>
>
>>On Mon, 18 Dec 2006, Mike Andrews wrote:
>
>
>>>Some friends and I have been looking into making antennas for 70 cm.
>>>and higher frequencies, but we don't have an MFJ-269; my MFJ-259 tops
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>>>
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>
>
>>You did not say what an 8640B is. Signal generator? Transmitter? Power
>>out?
>
>
> Lab-grade RF signal generator, official range from 500 KHz to 1.024
> MHz. In practice it's good from 455 KHz up to about 1.2 GHz. Includes
> FM, AM, and pulse modulation, with either internal modulation at variable
> frequencies and amplitude (AM) or deviation (FM) or external modulation.
> Has a very nice 6 1/2 digit counter good up to 1.2 GHz. Output range
> is from -130 dBm (100 nanoVolts) to +20 dBm (3 Volts) into 50 Ohms.

>
> It's a _very_ nice piece of gear indeed. You can see a picture of mine
> (and other stuff on the workbench) at
>
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>
>
>>Main thing is to get the "forward" power to read something on the meter
>>(preferably full scale, but even if you get half or quarter scale, then
>>you are able to get a rough idea of usabiltiy of the meter). Then see what
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>>scale), then you have about 3:1 SWR. Turn the meter around to get an idea
>>if the diodes (and associated circuitry) are well matched for forward and
>>reflected.
>
>
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>>are good for handie-talkie measurements. So, yes, you should get useful
>>ball park figures.
>
>
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> would give reasonably accurate readings from 100 MHz to 1.2 GHz, since
> I already had the signal source. Of course, the HP 8640B weighs about
> 40 pounds, and is a good deal less portable than the MFJ products, but
> if I can get this working, I'll be able to do things it won't.
>
>
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>>>the SWR meter to the antenna? Or am I way off in left field?
>
>
> Looks like I'm well inside the ballpark and that I have some design
> and construction to do. This should be fun.
>
> Thanks!
>

From -3903985815953115728
X-Google-Thread: fc2a5,e00f88b77deda7b2
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news.litech.org!not-for-mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR and resonance measurements without an MFJ269 or equiv.
Date: Tue, 19 Dec 2006 18:45:49 +0000 (UTC)

Organization: Me?
Lines: 18
Sender: mikea@mikea.ath.cx
Message-ID: <em9c0t$iug$1@puck.litech.org>
References: <em6at1$f9i$1@puck.litech.org>
<Pine.NEB.4.64.0612190952030.12003@panix2.panix.com>
<em90da$7qc$1@puck.litech.org> <RY2dnV1vvKygrBXYnZ2dnUVZ_vipnZ2d@bright.net>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1166553949 19408 68.15.203.64 (19 Dec 2006 18:45:49 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Tue, 19 Dec 2006 18:45:49 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:8319

On Tue, 19 Dec 2006 18:36:43 +0000, Scott <acepilot@bloomer.net> wrote in
<RY2dnV1vvKygrBXYnZ2dnUVZ_vipnZ2d@bright.net>:
> I don't think using your 8640B as a signal source to read on a wattmeter
> is going to cut it. +20 dBm is only 100 mW. Unless you have a
> wattmeter that has a 100 mW or so range, you aren't going to get much
> needle deflection. The lowest range on my Telewave wattmeter is 5 Watts.

Agreed. I'm looking at some RF log-amp chips from various places and
some RF sensor chips I saw in a construction article I can't locate
right now, so that I can get something useful with signal levels in
the Part-15 range.

I don't know what I'll wind up with, but it'll be interesting. I'll
share when it's soup.

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From 1472155065163290854
X-Google-Thread: fc2a5,e00f88b77deda7b2
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news.newsland.it!
aioe.org!fmmck
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR and resonance measurements without an MFJ269 or equiv.
Date: Tue, 19 Dec 2006 15:04:58 -0500
Organization: Aioe.org NNTP Server
Lines: 24
Message-ID: <fmmck-25FC97.15045819122006@nntp.aioe.org>
References: <em6at1$f9i$1@puck.litech.org>
NNTP-Posting-Host: GS/Eu2G4s3PAitfywo/5pg.user.aioe.org

X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.2 (Intel Mac OS X)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8320

In article <em6at1$f9i$1@puck.litech.org>,
 "Mike Andrews" <mikea@mikea.ath.cx> wrote:

> Some friends and I have been looking into making antennas for 70 cm.
> and higher frequencies, but we don't have an MFJ-269; my MFJ-259 tops
> out at 175 MHz. I _do_, however, have an SWR meter that supposedly
> works up to 500 MHz(and maybe higher), and an HP 8640B that is good
> to about 1.2 GHz.
>
> If the SWR meter is sensitive enough, could I get at least ballpark
> SWR values using the 8640B as a source, running the signal through
> the SWR meter to the antenna? Or am I way off in left field?

Mike-

I think you are on the right track with the RF log-amps.

Another idea - I understand the MFJ-259 has a standard SWR configuration
with a built-in signal source that uses an ALC to keep forward power at
the equivalent of full scale. Why not replace the 259 signal source
with the HP 8640B?

Fred
K4DII

From 6707004304878556921
X-Google-Thread: fc2a5,e00f88b77deda7b2
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news.litech.org!not-for-mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR and resonance measurements without an MFJ269 or equiv.
Date: Tue, 19 Dec 2006 20:12:37 +0000 (UTC)
Organization: Me?
Lines: 42
Sender: mikea@mikea.ath.cx
Message-ID: <em9h3l$l4f$2@puck.litech.org>
References: <em6at1$f9i$1@puck.litech.org>
<fmmck-25FC97.15045819122006@nntp.aioe.org>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1166559157 21647 68.15.203.64 (19 Dec 2006 20:12:37 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Tue, 19 Dec 2006 20:12:37 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org

User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:8321

On Tue, 19 Dec 2006 15:04:58 -0500, Fred McKenzie <fmmck@aol.com> wrote in
<fmmck-25FC97.15045819122006@nntp.aioe.org>:
> In article <em6at1$f9i$1@puck.litech.org>,
> "Mike Andrews" <mikea@mikea.ath.cx> wrote:

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> I think you are on the right track with the RF log-amps.

> Another idea - I understand the MFJ-259 has a standard SWR configuration
> with a built-in signal source that uses an ALC to keep forward power at
> the equivalent of full scale. Why not replace the 259 signal source
> with the HP 8640B?

I hadn't thought of that. I suppose I could put a jack on the 259's
case, and a switch to select the 8640B, which has _marvelous_ ALC all
its own. The switch, and some RG-174, ought to be good enough for what
I'll be asking them to do. But that changes the question to "Is the
259's SWR sensor good enough above 175 MHz, and especially around 33
cm to 25 cm, to give real-world answers?"

I'll never know if I don't try.

I may have to buy a factory UHF-and-above antenna analyzer to validate
my answers, of course. I'm sure W5DNA will understand why we're eating
potato soup for two or three months.

Thanks!

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From 8252322652747824368
X-Google-Thread: fc2a5,a1e7d9eaefd32d34
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!a3g2000cwd.googlegroups.com!not-for-

mail
From: "John Miles, KE5FX" <jmiles@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SA605 or SA615 source
Date: 19 Dec 2006 12:22:06 -0800
Organization: http://groups.google.com
Lines: 11
Message-ID: <1166559726.337136.17610@a3g2000cwd.googlegroups.com>
References: <em7mqd$mcg$3@puck.litech.org>
NNTP-Posting-Host: 216.254.19.39
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166559732 15671 127.0.0.1 (19 Dec 2006 20:22:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 19 Dec 2006 20:22:12 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1) Gecko/
20061010 Firefox/2.0,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: a3g2000cwd.googlegroups.com; posting-host=216.254.19.39;
   posting-account=SsbzKA0AAAC23y_ioOR1N5xHOoa-hUZY
Xref: g2news2.google.com rec.radio.amateur.homebrew:8322

Mike Andrews wrote:
> Anyone got a source for SA605 or SA615? I want to build the 1-chip
> receiver that Steve Hageman describes in EDN Access of 25 September
> 1997, but am having problems finding the chips. Maybe I'm looking
> past them.
>

They can be ordered directly from Philips -- as of a couple of years
ago anyway. Also, www.findchips.com shows a few vendors that sell them.

From 3341214228907352445
X-Google-Thread: fc2a5,a1e7d9eaefd32d34
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe09.lga.POSTED!53ab2750!not-for-mail
From: ricknj10@hotmail.com (Rick)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SA605 or SA615 source
Reply-To: ricknj10@hotmail.com
Message-ID: <4588549b.625156@news.optonline.net>
References: <em7mqd$mcg$3@puck.litech.org>
<1166559726.337136.17610@a3g2000cwd.googlegroups.com>
X-Newsreader: Forte Free Agent 1.21/32.243
Lines: 2
X-Complaints-To: abuse@cv.net
X-Abuse-Info: Please forward a copy of all headers for proper handling

X-Trace:
mgjcfpjdppbciligkannfilpcpbbolnmpccmabegilaokandapnppbkdjmafifihldgpcamcadiogeejnl
bfckiehkcmilfhffjdlppccacmcfebpngllhbpkkgcllaihgindeflifgphkdl
NNTP-Posting-Date: Tue, 19 Dec 2006 14:08:55 MST
Organization: Optimum Online
Date: Tue, 19 Dec 2006 21:08:56 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8323

Item #190063731505 on eBay has them right now. $16.50 for 2 pieces

From -6617085806164298149
X-Google-Thread: fc2a5,e00f88b77deda7b2
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.maxwell.syr.edu!newsfeed.icl.net!
newsfeed.freenet.de!feeder.news-service.com!feeder.news-service.com!
138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-03!sn-ams!sn-feed-ams-02!sn-post-
ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR and resonance measurements without an MFJ269 or equiv.
Date: Tue, 19 Dec 2006 16:42:44 -0800
Organization: EZNEC Antenna Software
Message-ID: <12oh1o9jr0n8i27@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
MIME-Version: 1.0
References: <em6at1$f9i$1@puck.litech.org>
In-Reply-To: <em6at1$f9i$1@puck.litech.org>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 13
Xref: g2news2.google.com rec.radio.amateur.homebrew:8324

I'd start by measuring a standard or two. You can get pretty decent termination resistors on eBay for a modest cost. If your system measures close to 1:1 when terminated with one of those, you're off to a good start. Next I'd make up a 50 ohm microstrip line terminated with a 50 ohm chip resistor. If that reads close to what the 50 ohm termination did, then I'd measure the SWR with some different load values, say 25 and 100 ohms. These of course could be made from two 50 ohm chip resistors. You could get more elaborate with the calibration by introducing reactive loads, but just the three data points should be enough to give you some confidence in your SWR measurements, at least near 1:1 where your primary interest is.

Roy Lewallen, W7EL

From 977557631933717732
X-Google-Thread: 10bf43,365de4945b7823b7,start

```
X-Google-Thread: 107ada,365de4945b7823b7,start
X-Google-Thread: 106d41,365de4945b7823b7,start
X-Google-Thread: fc2a5,365de4945b7823b7,start
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!80g2000cwy.googlegroups.com!not-for-
mail
From: "K4YZ" <stevenrobeson@yahoo.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: A Christmas Present Everyone Can Afford
Date: 20 Dec 2006 17:26:49 -0800
Organization: http://groups.google.com
Lines: 25
Message-ID: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 205.188.116.200
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1166664415 17159 127.0.0.1 (21 Dec 2006 01:26:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Dec 2006 01:26:55 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 Turboweb
[dtc-tf084 8.4.1], HTTP/1.1 cache-dtc-ad06.proxy.aol.com[CDBC74C8] (Traffic-
Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: 80g2000cwy.googlegroups.com; posting-host=205.188.116.200;
   posting-account=McIgIg0AAADr7OL96Ze4JWCAYvKOOVwu
Xref: g2news2.google.com rec.radio.amateur.policy:59340
rec.radio.amateur.misc:27267 rec.radio.cb:23723 rec.radio.amateur.homebrew:8325
```

As the Christmas season draws closer, many of us who have watched the war in Iraq have wondered how we could help or "make a difference" to the lives of some of our Soldiers, Sailors, Airmen and Marines who have been wounded in combat.

Although there are several military hospitals that take in the wounded, most find their way into Walter Reed Army Hospital.

Please take a minute to fill out a Christmas card and address it as follows:

A Recovering American Service Member
c/o Walter Reed Army Medical Center
6900 Georgia Avenue, NW
Washington, DC 20307-5001

Perhaps a personal note of thanks and gratitude for the sacrifice they've made would be appropriate.

73

Steve Robeson, LPN
Winchester, TN
K4YZ

From -6715832686935191669
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!80g2000cwy.googlegroups.com!not-for-mail
From: "an_old_friend" <konstans@hotmail.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.homebrew
Subject: Re: A Christmas Present Everyone Can Afford
Date: 20 Dec 2006 17:33:45 -0800
Organization: http://groups.google.com
Lines: 15
Message-ID: <1166664825.458969.90380@80g2000cwy.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 66.82.9.58
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166664831 18273 127.0.0.1 (21 Dec 2006 01:33:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Dec 2006 01:33:51 +0000 (UTC)
In-Reply-To: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 80g2000cwy.googlegroups.com; posting-host=66.82.9.58;
   posting-account=5Yl6pg0AAADpwOMWiAfWEILF9IbswBYm
Xref: g2news2.google.com rec.radio.amateur.policy:59343 rec.radio.amateur.misc:27268 rec.radio.cb:23725 rec.radio.amateur.homebrew:8326

K4YZ wrote:
> As the Christmas season draws closer,

why not begin your efforts closer to home and do something nice and
apologize to victums of your years of harrassment

> Steve Robeson, LPN

so much for your claim you do not sign yourself as LPN from time to time

> Winchester, TN
> K4YZ

```
From 807947176328487677
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!73g2000cwn.googlegroups.com!not-for-
mail
From: "K4YZ" <stevenrobeson@yahoo.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: A Christmas Present Everyone Can Afford
Date: 20 Dec 2006 17:38:57 -0800
Organization: http://groups.google.com
Lines: 24
Message-ID: <1166665136.932220.62410@73g2000cwn.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
   <1166664825.458969.90380@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 205.188.116.200
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166665142 18930 127.0.0.1 (21 Dec 2006 01:39:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Dec 2006 01:39:02 +0000 (UTC)
In-Reply-To: <1166664825.458969.90380@80g2000cwy.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 Turboweb
[dtc-tf084 8.4.1], HTTP/1.1 cache-dtc-ad06.proxy.aol.com[CDBC74C8] (Traffic-
Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: 73g2000cwn.googlegroups.com; posting-host=205.188.116.200;
   posting-account=McIgIg0AAADr7OL96Ze4JWCAYvKOOVwu
Xref: g2news2.google.com rec.radio.amateur.policy:59346
rec.radio.amateur.misc:27269 rec.radio.cb:23726 rec.radio.amateur.homebrew:8327
```

nobodys_old_friend wrote:
> K4YZ wrote:
> > As the Christmas season draws closer,
>
> why not begin your efforts closer to home and do something nice and
> apologize to victums of your years of harrassment

>
> > Steve Robeson, LPN
>
> so much for your claim you do not sign yourself as LPN from time to
> time

So much for YOUR claim that you don't go off-topic on "legitimate" posts.

And considering you keep insisting you're a "legitimate" Veteran, I would have thought that the topic of this ONE thread would have been immune to your babblings.

Silly me.

Steve, K4YZ

From -8848482648556392617
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!newshub.sdsu.edu!
nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.homebrew
Subject: does steve have a job
Date: Wed, 20 Dec 2006 20:43:05 -0500
Message-ID: <5ipjo2pugki7dqrr4smbk69umb7hdniaop@4ax.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<1166664825.458969.90380@80g2000cwy.googlegroups.com>
<1166665136.932220.62410@73g2000cwn.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 14
NNTP-Posting-Date: 21 Dec 2006 00:48:41 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:59351
rec.radio.amateur.misc:27270 rec.radio.cb:23728 rec.radio.amateur.homebrew:8328

On 20 Dec 2006 17:38:57 -0800, "K4YZ" <stevenrobeson@yahoo.com> wrote:

>
>nobodys_old_friend wrote:
cyber vandalism

```
>    And considering you keep insisting you're a "legitimate" Veteran, I
>would have thought that the topic of this ONE thread would have been
>immune to your babblings.

steve you are just trying to divert from your years of trashing the NG

you want to do something for christmas apologize for your words and
Stopp trying to use veterans to make yourself look good steve
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -4898295620733902763
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!79g2000cws.googlegroups.com!not-for-
mail
From: "K4YZ" <stevenrobeson@yahoo.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: A Christmas Present Everyone Can Afford
Date: 20 Dec 2006 17:44:19 -0800
Organization: http://groups.google.com
Lines: 27
Message-ID: <1166665459.314305.303410@79g2000cws.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 205.188.116.200
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166665465 2688 127.0.0.1 (21 Dec 2006 01:44:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Dec 2006 01:44:25 +0000 (UTC)
In-Reply-To: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 Turboweb
[dtc-tf084 8.4.1], HTTP/1.1 cache-dtc-ad06.proxy.aol.com[CDBC74C8] (Traffic-
Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: 79g2000cws.googlegroups.com; posting-host=205.188.116.200;
   posting-account=McIgIg0AAADr7OL96Ze4JWCAYvKOOVwu
Xref: g2news2.google.com rec.radio.amateur.policy:59353
rec.radio.amateur.misc:27271 rec.radio.cb:23729 rec.radio.amateur.homebrew:8329
```

```
K4YZ wrote::
> As the Christmas season draws closer, many of us who have watched
> the war in Iraq have wondered how we could help or "make a difference"
> to the lives of some of our Soldiers, Sailors, Airmen and Marines who
> have been wounded in combat.
>
>     Although there are several military hospitals that take in the
> wounded, most find their way into Walter Reed Army Hospital.
>
>     Please take a minute to fill out a Christmas card and address it as
> follows:
>
>      A Recovering American Service Member
>      c/o Walter Reed Army Medical  Center
>      6900 Georgia Avenue, NW
>      Washington, DC 20307-5001
>
>      Perhaps a personal note of thanks and gratitude for the sacrifice
> they've made would be appropriate.
>
> 73
>
> Steve Robeson, LPN
> Winchester, TN
> K4YZ



From -7935282848407407131
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: stop pretending you are vet or that you care about vet
Date: Wed, 20 Dec 2006 20:46:21 -0500
Message-ID: <tppjo2lc1o1e8an0f8ka3gptng2p8efjhc@4ax.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<1166665459.314305.303410@79g2000cws.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 6
NNTP-Posting-Date: 21 Dec 2006 00:51:57 GMT
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```
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:59355
rec.radio.amateur.misc:27272 rec.radio.cb:23730 rec.radio.amateur.homebrew:8330

On 20 Dec 2006 17:44:19 -0800, "K4YZ" <stevenrobeson@yahoo.com> wrote:

>
stop the lying steve you have been busted as a fraud and not a marine
and that your harrass any vet you like
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -2295662456819378624
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!n67g2000cwd.googlegroups.com!not-for-
mail
From: "K4YZ" <stevenrobeson@yahoo.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: A Christmas Present Everyone Can Afford
Date: 20 Dec 2006 17:51:33 -0800
Organization: http://groups.google.com
Lines: 27
Message-ID: <1166665892.962817.325440@n67g2000cwd.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 205.188.116.200
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166665911 3778 127.0.0.1 (21 Dec 2006 01:51:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Dec 2006 01:51:51 +0000 (UTC)
In-Reply-To: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 Turboweb
[dtc-tf084 8.4.1], HTTP/1.1 cache-dtc-ad06.proxy.aol.com[CDBC74C8] (Traffic-
Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: n67g2000cwd.googlegroups.com; posting-host=205.188.116.200;
   posting-account=McIgIg0AAADr7OL96Ze4JWCAYvKOOVwu
Xref: g2news2.google.com rec.radio.amateur.policy:59357
rec.radio.amateur.misc:27273 rec.radio.cb:23731 rec.radio.amateur.homebrew:8331
```

```
K4YZ wrote:
> As the Christmas season draws closer, many of us who have watched
> the war in Iraq have wondered how we could help or "make a difference"
> to the lives of some of our Soldiers, Sailors, Airmen and Marines who
> have been wounded in combat.
>
>     Although there are several military hospitals that take in the
> wounded, most find their way into Walter Reed Army Hospital.
>
>     Please take a minute to fill out a Christmas card and address it as
> follows:
>
>      A Recovering American Service Member
>      c/o Walter Reed Army Medical  Center
>      6900 Georgia Avenue, NW
>      Washington, DC 20307-5001
>
>      Perhaps a personal note of thanks and gratitude for the sacrifice
> they've made would be appropriate.
>
> 73
>
> Steve Robeson, LPN
> Winchester, TN
> K4YZ



From -4437673780507218867
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news2.volia.net!koehntopp.de!
newsfeed.freenet.de!213.132.189.2.MISMATCH!multikabel.net!feed20.multikabel.net!
news2.euro.net!66.150.105.54.MISMATCH!nntpserver.com!zeus.nntpserver.com!
hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: does steve have a job?
Date: Wed, 20 Dec 2006 20:54:05 -0500
Message-ID: <38qjo21603ouep8mr158q3ue1s6ncb5l6a@4ax.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<1166665892.962817.325440@n67g2000cwd.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
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Content-Transfer-Encoding: 7bit
Lines: 8
NNTP-Posting-Date: 21 Dec 2006 00:59:40 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:59359
rec.radio.amateur.misc:27274 rec.radio.cb:23732 rec.radio.amateur.homebrew:8332
```

On 20 Dec 2006 17:51:33 -0800, "K4YZ" <stevenrobeson@yahoo.com> wrote:

>
>K4YZ wrote:
fraud remains a crime steve you are not a vet and you harrass vet at
any other occassion stop trying to us them to divert attention from
record of fraud
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

```
From 2418018048221462686
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!80g2000cwy.googlegroups.com!not-for-
mail
From: "K4YZ" <stevenrobeson@yahoo.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: A Christmas Present Everyone Can Afford
Date: 20 Dec 2006 18:00:35 -0800
Organization: http://groups.google.com
Lines: 27
Message-ID: <1166666435.825436.180490@80g2000cwy.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 205.188.116.200
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166666441 22328 127.0.0.1 (21 Dec 2006 02:00:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Dec 2006 02:00:41 +0000 (UTC)
In-Reply-To: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 Turboweb
[dtc-tf084 8.4.1], HTTP/1.1 cache-dtc-ad06.proxy.aol.com[CDBC74C8] (Traffic-
Server/6.1.5 [uScM])
```

```
Complaints-To: groups-abuse@google.com
Injection-Info: 80g2000cwy.googlegroups.com; posting-host=205.188.116.200;
   posting-account=McIgIg0AAADr7OL96Ze4JWCAYvKOOVwu
Xref: g2news2.google.com rec.radio.amateur.policy:59362
rec.radio.amateur.misc:27275 rec.radio.cb:23733 rec.radio.amateur.homebrew:8333


K4YZ wrote.:
> As the Christmas season draws closer, many of us who have watched
> the war in Iraq have wondered how we could help or "make a difference"
> to the lives of some of our Soldiers, Sailors, Airmen and Marines who
> have been wounded in combat.
>
>     Although there are several military hospitals that take in the
> wounded, most find their way into Walter Reed Army Hospital.
>
>     Please take a minute to fill out a Christmas card and address it as
> follows:
>
>      A Recovering American Service Member
>      c/o Walter Reed Army Medical  Center
>      6900 Georgia Avenue, NW
>      Washington, DC 20307-5001
>
>      Perhaps a personal note of thanks and gratitude for the sacrifice
> they've made would be appropriate.
>
> 73
>
> Steve Robeson, LPN
> Winchester, TN
> K4YZ



From -7566199028928105494
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: stop trying to use vets to imporve your befoulded name
Date: Wed, 20 Dec 2006 21:02:18 -0500
Message-ID: <4oqjo29c8mcujcmn422tia7dii6lc76c3c@4ax.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<1166666435.825436.180490@80g2000cwy.googlegroups.com>
```

```
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 6
NNTP-Posting-Date: 21 Dec 2006 01:07:53 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:59364
rec.radio.amateur.misc:27276 rec.radio.cb:23734 rec.radio.amateur.homebrew:8334

On 20 Dec 2006 18:00:35 -0800, "K4YZ" <stevenrobeson@yahoo.com> wrote:

>
>K4YZ wrote.:
shame on you for trying to use the vet to push YOU steve
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From 6560577669462810488
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!48g2000cwx.googlegroups.com!not-for-
mail
From: "K4YZ" <stevenrobeson@yahoo.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: A Christmas Present Everyone Can Afford
Date: 20 Dec 2006 18:12:19 -0800
Organization: http://groups.google.com
Lines: 26
Message-ID: <1166667139.865017.131010@48g2000cwx.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 205.188.116.200
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166667146 24005 127.0.0.1 (21 Dec 2006 02:12:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Dec 2006 02:12:26 +0000 (UTC)
In-Reply-To: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 Turboweb
[dtc-tf084 8.4.1], HTTP/1.1 cache-dtc-ad06.proxy.aol.com[CDBC74C8] (Traffic-
```

Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: 48g2000cwx.googlegroups.com; posting-host=205.188.116.200;
   posting-account=McIgIg0AAADr7OL96Ze4JWCAYvKOOVwu
Xref: g2news2.google.com rec.radio.amateur.policy:59367
rec.radio.amateur.misc:27277 rec.radio.cb:23737 rec.radio.amateur.homebrew:8335

As the Christmas season draws closer, many of us who have watched
the war in Iraq have wondered how we could help or "make a difference"
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have been wounded in combat.

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wounded, most find their way into Walter Reed Army Hospital.

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as
follows:

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c/o Walter Reed Army Medical Center
6900 Georgia Avenue, NW
Washington, DC 20307-5001

Perhaps a personal note of thanks and gratitude for the sacrifice
they've made would be appropriate.

73

Steve Robeson, LPN
Winchester, TN
K4YZ

From -3750760779929533698
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!t46g2000cwa.googlegroups.com!not-for-mail
From: "K4YZ" <stevenrobeson@aol.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.homebrew
Subject: Re: A Christmas Present Everyone Can Afford
Date: 20 Dec 2006 18:20:24 -0800
Organization: http://groups.google.com
Lines: 26
Message-ID: <1166667624.601431.159250@t46g2000cwa.googlegroups.com>

```
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 205.188.116.200
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166667630 7851 127.0.0.1 (21 Dec 2006 02:20:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Dec 2006 02:20:30 +0000 (UTC)
In-Reply-To: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 Turboweb
[dtc-tf084 8.4.1], HTTP/1.1 cache-dtc-ad06.proxy.aol.com[CDBC74C8] (Traffic-
Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: t46g2000cwa.googlegroups.com; posting-host=205.188.116.200;
   posting-account=S2H1pw0AAABMN6X6vM47XP5jq1r6FlhV
Xref: g2news2.google.com rec.radio.amateur.policy:59376
rec.radio.amateur.misc:27278 rec.radio.cb:23739 rec.radio.amateur.homebrew:8336
```

As the Christmas season draws closer, many of us who have watched the war in Iraq have wondered how we could help or "make a difference" to the lives of some of our Soldiers, Sailors, Airmen and Marines who have been wounded in combat.

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c/o Walter Reed Army Medical Center
6900 Georgia Avenue, NW
Washington, DC 20307-5001

Perhaps a personal note of thanks and gratitude for the sacrifice they've made would be appropriate.

73

Steve Robeson, LPN
Winchester, TN
K4YZ

```
From -5911449641838781955
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
```

```
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!79g2000cws.googlegroups.com!not-for-
mail
From: "K4YZ" <stevenrobeson@aol.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: A Christmas Present Everyone Can Afford
Date: 20 Dec 2006 18:26:34 -0800
Organization: http://groups.google.com
Lines: 26
Message-ID: <1166667993.989520.122820@79g2000cws.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 205.188.116.200
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166668000 8539 127.0.0.1 (21 Dec 2006 02:26:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Dec 2006 02:26:40 +0000 (UTC)
In-Reply-To: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 Turboweb
[dtc-tf084 8.4.1], HTTP/1.1 cache-dtc-ad06.proxy.aol.com[CDBC74C8] (Traffic-
Server/6.1.5 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: 79g2000cws.googlegroups.com; posting-host=205.188.116.200;
   posting-account=S2H1pw0AAABMN6X6vM47XP5jq1r6FlhV
Xref: g2news2.google.com rec.radio.amateur.policy:59384
rec.radio.amateur.misc:27279 rec.radio.cb:23740 rec.radio.amateur.homebrew:8337
```

As the Christmas season draws closer, many of us who have watched the war in Iraq have wondered how we could help or "make a difference" to the lives of some of our Soldiers, Sailors, Airmen and Marines who have been wounded in combat.

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6900 Georgia Avenue, NW
Washington, DC 20307-5001

Perhaps a personal note of thanks and gratitude for the sacrifice they've made would be appropriate.

```
73

Steve Robeson, LPN
Winchester, TN
K4YZ




From -6478519426962346909
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: why does steve try to use veterans to imporve his befoulded name
Date: Wed, 20 Dec 2006 21:44:43 -0500
Message-ID: <68tjo2dk78pckdc2p7aqjs61r6sqee91a1@4ax.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 9
NNTP-Posting-Date: 21 Dec 2006 01:50:20 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:59410
rec.radio.amateur.misc:27280 rec.radio.cb:23741 rec.radio.amateur.homebrew:8338

On 20 Dec 2006 17:26:49 -0800, "K4YZ" <stevenrobeson@yahoo.com> wrote:

>
why does steve try to use veterans to imporve his befoulded name
>Steve Robeson, LPN
>Winchester, TN
>K4YZ
stop the self promotion steve
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -6207479402493361071
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
```

```
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!80g2000cwy.googlegroups.com!not-for-
mail
From: "an_old_friend" <konstans@hotmail.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: why does steve try to use veterans to imporve his befoulded name
Followup-To: alt.test
Date: 20 Dec 2006 18:47:17 -0800
Organization: http://groups.google.com
Lines: 11
Message-ID: <1166669237.534378.319060@80g2000cwy.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 66.82.9.58
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166669243 11585 127.0.0.1 (21 Dec 2006 02:47:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Dec 2006 02:47:23 +0000 (UTC)
In-Reply-To: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 80g2000cwy.googlegroups.com; posting-host=66.82.9.58;
   posting-account=5Yl6pg0AAADpwOMWiAfWEILF9IbswBYm
Xref: g2news2.google.com rec.radio.amateur.policy:59411
rec.radio.amateur.misc:27281 rec.radio.cb:23742 rec.radio.amateur.homebrew:8339


K4YZ wrote:
>
>
why does steve try to use veterans to imporve his befoulded name
> Steve Robeson, LPN
> Winchester, TN
> K4YZ
stop the self promotion till you mend your fences with the real
veterans of RRAP




From -2423826848288972630
X-Google-Thread: fc2a5,e00f88b77deda7b2
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
newsfeed2.dallas1.level3.net!news.level3.com!panix!panix2.panix.com!asd
From: Straydog <asd@panix.com>
```

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR and resonance measurements without an MFJ269 or equiv.
Date: Wed, 20 Dec 2006 22:37:37 -0500
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 84
Message-ID: <Pine.NEB.4.64.0612202229160.16258@panix2.panix.com>
References: <em6at1$f9i$1@puck.litech.org>
<Pine.NEB.4.64.0612190952030.12003@panix2.panix.com>
<em90da$7qc$1@puck.litech.org>
NNTP-Posting-Host: panix2.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1166672258 28706 166.84.1.2 (21 Dec 2006 03:37:38 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 21 Dec 2006 03:37:38 +0000 (UTC)
In-Reply-To: <em90da$7qc$1@puck.litech.org>
Xref: g2news2.google.com rec.radio.amateur.homebrew:8340

Just one comment, about halfway down....

On Tue, 19 Dec 2006, Mike Andrews wrote:

> On Tue, 19 Dec 2006 09:58:41 -0500, Straydog <asd@panix.com> wrote in
<Pine.NEB.4.64.0612190952030.12003@panix2.panix.com>:
>
>
>> On Mon, 18 Dec 2006, Mike Andrews wrote:
>
>>> Some friends and I have been looking into making antennas for 70 cm.
>>> and higher frequencies, but we don't have an MFJ-269; my MFJ-259 tops
>>> out at 175 MHz. I _do_, however, have an SWR meter that supposedly
>>> works up to 500 MHz(and maybe higher), and an HP 8640B that is good
>>> to about 1.2 GHz.
>>>
>>> If the SWR meter is sensitive enough, could I get at least ballpark
>>> SWR values using the 8640B as a source,
>
>> You did not say what an 8640B is. Signal generator? Transmitter? Power
>> out?
>
> Lab-grade RF signal generator, official range from 500 KHz to 1.024
> MHz. In practice it's good from 455 KHz up to about 1.2 GHz. Includes
> FM, AM, and pulse modulation, with either internal modulation at variable
> frequencies and amplitude (AM) or deviation (FM) or external modulation.
> Has a very nice 6 1/2 digit counter good up to 1.2 GHz. Output range
> is from -130 dBm (100 nanoVolts) to +20 dBm (3 Volts) into 50 Ohms.

3 volts into 50 ohms isn't much power. ~3/50 of an amp, means about 180 milliwatts. The most sensitive calibrated SWR meters will read zero to 5 watts full scale, so 180 milliwatts might move your needle for forward power about 5-10 degrees of arc away from the leftmost peg towards the rightmost peg on the dial. That doesn't give you much indication of reflected power

since a 3:1 ratio would then mean movement of the needle about 2.5 to 5 degrees of arc, respectively. The elcheapo CB SWR meters _might_ be more sensitive since more power _should_ transfer to the measuring bars because 2 meters is some 5 times higher in frequency and the CB SWR meters are meant to operate at max 3-4 watts of RF output from the CB rigs. But, you'll have to try it.

===== no change to below, included for reference and context =====

> It's a _very_ nice piece of gear indeed. You can see a picture of mine
> (and other stuff on the workbench) at
>
> <http://mikea.ath.cx/testgear/index.html>.
>
>> Main thing is to get the "forward" power to read something on the meter
>> (preferably full scale, but even if you get half or quarter scale, then
>> you are able to get a rough idea of usabiltiy of the meter). Then see what
>> it shows on the "reflected" scale. Figure ver roughly if the reflected
>> power is half the forward (regardless of the actual location on the meter
>> scale), then you have about 3:1 SWR. Turn the meter around to get an idea
>> if the diodes (and associated circuitry) are well matched for forward and
>> reflected.
>
>> I have used a number of el-cheapo CB SWR meters even up on two meters and
>> they work surprisingly well, even more sensitive than ham SWR meters for
>> VHF-UHF, and not that far off of what the ham SWR meters report, and so
>> are good for handie-talkie measurements. So, yes, you should get useful
>> ball park figures.
>
> That's good to hear. I got to thinking about what an MFJ-259 or -269
> does, and decided that I only needed a sensitive-enough SWR meter that
> would give reasonably accurate readings from 100 MHz to 1.2 GHz, since
> I already had the signal source. Of course, the HP 8640B weighs about
> 40 pounds, and is a good deal less portable than the MFJ products, but
> if I can get this working, I'll be able to do things it won't.
>
>>> running the signal through
>>> the SWR meter to the antenna? Or am I way off in left field?
>
> Looks like I'm well inside the ballpark and that I have some design
> and construction to do. This should be fun.
>
> Thanks!
>
> --
> Mike Andrews, W5EGO
> mikea@mikea.ath.cx
> Tired old sysadmin
>

From -7524929650590636886

```
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wn14feed!worldnet.att.net!63.218.45.10!
nx01.iad01.newshosting.com!newshosting.com!post01.iad01!roadrunner.com!not-for-
mail
From: "U-Know-Who" <no-one@nowhere.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<68tjo2dk78pckdc2p7aqjs61r6sqee91a1@4ax.com>
Subject: Re: why does steve try to use veterans to imporve his befoulded name
Date: Wed, 20 Dec 2006 21:55:23 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Lines: 24
Message-ID: <458a05a9$0$5261$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.policy:59490
rec.radio.amateur.misc:27282 rec.radio.cb:23743 rec.radio.amateur.homebrew:8341
```

```
<Mark@kb9rqz.aprs> wrote in message
news:68tjo2dk78pckdc2p7aqjs61r6sqee91a1@4ax.com...
> On 20 Dec 2006 17:26:49 -0800, "K4YZ" <stevenrobeson@yahoo.com> wrote:
>
>>
> why does steve try to use veterans to imporve his befoulded name



Befoulded? Is that some kind of Jewish thing?


>>Steve Robeson, LPN
>>Winchester, TN
>>K4YZ
> stop the self promotion steve
> http://kb9rqz.blogspot.com/
>
> --
> Posted via a free Usenet account from http://www.teranews.com
>
```

```
From 5451400167436759427
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!t46g2000cwa.googlegroups.com!not-for-
mail
From: "an_old_friend" <konstans@hotmail.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: why does steve try to use veterans to imporve his befoulded name
Date: 20 Dec 2006 19:57:02 -0800
Organization: http://groups.google.com
Lines: 15
Message-ID: <1166673422.274657.130230@t46g2000cwa.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
   <68tjo2dk78pckdc2p7aqjs61r6sqee91a1@4ax.com>
   <458a05a9$0$5261$4c368faf@roadrunner.com>
NNTP-Posting-Host: 66.82.9.58
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166673428 6960 127.0.0.1 (21 Dec 2006 03:57:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Dec 2006 03:57:08 +0000 (UTC)
In-Reply-To: <458a05a9$0$5261$4c368faf@roadrunner.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: t46g2000cwa.googlegroups.com; posting-host=66.82.9.58;
   posting-account=5Yl6pg0AAADpwOMWiAfWEILF9IbswBYm
Xref: g2news2.google.com rec.radio.amateur.policy:59492
rec.radio.amateur.misc:27283 rec.radio.cb:23745 rec.radio.amateur.homebrew:8342


U-Know-Who wrote:
> <Mark@kb9rqz.aprs> wrote in message
> news:68tjo2dk78pckdc2p7aqjs61r6sqee91a1@4ax.com...
> > On 20 Dec 2006 17:26:49 -0800, "K4YZ" <stevenrobeson@yahoo.com> wrote:
> >
> >>
> > why does steve try to use veterans to imporve his befoulded name
>
>
>
> Befoulded? Is that some kind of Jewish thing?
```

sad you are an antisemtic too Tom

```
From 1457270263174915092
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
From: "U-Know-Who" <no-one@nowhere.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<68tjo2dk78pckdc2p7aqjs61r6sqee91a1@4ax.com>
<458a05a9$0$5261$4c368faf@roadrunner.com>
<1166673422.274657.130230@t46g2000cwa.googlegroups.com>
Subject: Re: why does steve try to use veterans to imporve his befoulded name
Date: Wed, 20 Dec 2006 22:22:21 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Lines: 24
Message-ID: <458a0bfa$0$5228$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.policy:59530
rec.radio.amateur.misc:27284 rec.radio.cb:23746 rec.radio.amateur.homebrew:8343
```

```
"an_old_friend" <konstans@hotmail.com> wrote in message
news:1166673422.274657.130230@t46g2000cwa.googlegroups.com...
>
> U-Know-Who wrote:
>> <Mark@kb9rqz.aprs> wrote in message
>> news:68tjo2dk78pckdc2p7aqjs61r6sqee91a1@4ax.com...
>> > On 20 Dec 2006 17:26:49 -0800, "K4YZ" <stevenrobeson@yahoo.com> wrote:
>> >
>> >>
>> > why does steve try to use veterans to imporve his befoulded name
>>
>>
>>
>> Befoulded? Is that some kind of Jewish thing?
>
> sad you are an antisemtic too Tom
```

>

Sad that you are too fucking stupid to know otherwise. I don't have anything against anyone's religion. I asked a question. As far as I can tell the word does not exist in your context.

```
From -1717900721237988830
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!multikabel.net!
feed20.multikabel.net!news2.euro.net!66.150.105.54.MISMATCH!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: why does steve try to use veterans to imporve his befoulded name
Date: Wed, 20 Dec 2006 23:27:29 -0500
Message-ID: <q83ko2lcg4a9v081khibijhifsr3lqc8am@4ax.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<68tjo2dk78pckdc2p7aqjs61r6sqee91a1@4ax.com>
<458a05a9$0$5261$4c368faf@roadrunner.com>
<1166673422.274657.130230@t46g2000cwa.googlegroups.com>
<458a0bfa$0$5228$4c368faf@roadrunner.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 25
NNTP-Posting-Date: 21 Dec 2006 03:33:05 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:59543
rec.radio.amateur.misc:27285 rec.radio.cb:23747 rec.radio.amateur.homebrew:8344
```

On Wed, 20 Dec 2006 22:22:21 -0600, "U-Know-Who" <no-one@nowhere.com>
wrote:

```
>
>"an_old_friend" <konstans@hotmail.com> wrote in message
>news:1166673422.274657.130230@t46g2000cwa.googlegroups.com...
>>
>> U-Know-Who wrote:
>>> <Mark@kb9rqz.aprs> wrote in message
>>> news:68tjo2dk78pckdc2p7aqjs61r6sqee91a1@4ax.com...
>>> > On 20 Dec 2006 17:26:49 -0800, "K4YZ" <stevenrobeson@yahoo.com> wrote:
>>> >
>>> >>
>>> > why does steve try to use veterans to imporve his befoulded name
>>>
>>>
>>>
>>> Befoulded? Is that some kind of Jewish thing?
>>
>> sad you are an antisemtic too Tom
>>
>
>Sad that you are too fucking stupid to know otherwise
nah Tom you are making an antisemtic remark
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -6029156769054370339
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!80g2000cwy.googlegroups.com!not-for-
mail
From: "an old friend" <kb9rqz@yahoo.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: A Christmas Present Everyone Can Afford
Date: 20 Dec 2006 21:04:53 -0800
Organization: http://groups.google.com
Lines: 19
Message-ID: <1166677493.343119.68440@80g2000cwy.googlegroups.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
   <1166664825.458969.90380@80g2000cwy.googlegroups.com>
   <1166665136.932220.62410@73g2000cwn.googlegroups.com>
NNTP-Posting-Host: 66.82.9.58
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166677499 17022 127.0.0.1 (21 Dec 2006 05:04:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Dec 2006 05:04:59 +0000 (UTC)
In-Reply-To: <1166665136.932220.62410@73g2000cwn.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 80g2000cwy.googlegroups.com; posting-host=66.82.9.58;
   posting-account=mGJHFw0AAABhg_iImBOts3VB5ouUQlvB
```

```
Xref: g2news2.google.com rec.radio.amateur.policy:59567
rec.radio.amateur.misc:27286 rec.radio.cb:23751 rec.radio.amateur.homebrew:8345


K4YZ wrote:
> nobodys_old_friend wrote:
> > K4YZ wrote:
> > > As the Christmas season draws closer,
> >
> > why not begin your efforts closer to home and do something nice and
> > apologize to victums of your years of harrassment
> >
> > > Steve Robeson, LPN
> >
> > so much for your claim you do not sign yourself as LPN from time to
> > time
>
>     So much for YOUR claim that you don't go off-topic on "legitimate"
> posts.
the post is is NOT legit here it is spam and you have posted it what 50
tiemes?




From -5322193576805566772
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
From: "U-Know-Who" <no-one@nowhere.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<68tjo2dk78pckdc2p7aqjs61r6sqee91a1@4ax.com>
<458a05a9$0$5261$4c368faf@roadrunner.com>
<1166673422.274657.130230@t46g2000cwa.googlegroups.com>
<458a0bfa$0$5228$4c368faf@roadrunner.com>
<q83ko2lcg4a9v081khibijhifsr3lqc8am@4ax.com>
Subject: Re: why does steve try to use veterans to imporve his befoulded name
Date: Wed, 20 Dec 2006 23:07:29 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Lines: 34
Message-ID: <458a1692$0$5218$4c368faf@roadrunner.com>
```

Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.policy:59569
rec.radio.amateur.misc:27287 rec.radio.cb:23753 rec.radio.amateur.homebrew:8346

<Mark@kb9rqz.aprs> wrote in message
news:q83ko2lcg4a9v081khibijhifsr3lqc8am@4ax.com...
> On Wed, 20 Dec 2006 22:22:21 -0600, "U-Know-Who" <no-one@nowhere.com>
> wrote:
>
>>
>>"an_old_friend" <konstans@hotmail.com> wrote in message
>>news:1166673422.274657.130230@t46g2000cwa.googlegroups.com...
>>>
>>> U-Know-Who wrote:
>>>> <Mark@kb9rqz.aprs> wrote in message
>>>> news:68tjo2dk78pckdc2p7aqjs61r6sqee91a1@4ax.com...
>>>> > On 20 Dec 2006 17:26:49 -0800, "K4YZ" <stevenrobeson@yahoo.com>
>>>> > wrote:
>>>> >
>>>> >>
>>>> > why does steve try to use veterans to imporve his befoulded name
>>>>
>>>>
>>>>
>>>> Befoulded? Is that some kind of Jewish thing?
>>>
>>> sad you are an antisemtic too Tom
>>>
>>
>>Sad that you are too fucking stupid to know otherwise
> nah Tom you are making an antisemtic remark
> http://kb9rqz.blogspot.com/

An Anti-Semitic remark would have a derogatory nature to it. Mine didn't,
Moron. I've met many Jews I like. You just love to be a victim, pussy.

From -5349762006896527947
X-Google-Thread: 108122,85cba5eb715048e0,start
X-Google-Thread: fc2a5,85cba5eb715048e0,start
X-Google-Attributes: gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!84ef5383!not-for-mail
From: "Brian" <kb9bvn@earthlink.net>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Parts with FREE shipping
Lines: 17

X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <Ihxih.2059$X72.1109@newsread3.news.pas.earthlink.net>
Date: Thu, 21 Dec 2006 14:57:44 GMT
NNTP-Posting-Host: 76.2.195.106
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1166713064 76.2.195.106 (Thu, 21 Dec 2006 06:57:44 PST)
NNTP-Posting-Date: Thu, 21 Dec 2006 06:57:44 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.equipment:7649 rec.radio.amateur.homebrew:8347

Hey all,

I'm trying to clean out the parts cabinet. So free shipping on all orders until I say otherwise.

My parts are new, but old stock spurplus. They are not pulls, and they have never been used. Most are gathered at hamfests, and some are gathered from eBay, some from surplus auctions, some just show up.

See the website below for details.

http://www.hamradparts.com

73 de KB9BVN

From 2415532281003234889
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 21 Dec 2006 11:15:10 -0600
Date: Thu, 21 Dec 2006 12:15:08 -0500
From: NoMoreSpam <Disgustedham@qrparci.org>
User-Agent: Thunderbird 1.5.0.5 (X11/20060719)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.homebrew

```
Subject: Re: why does steve try to use veterans to imporve his befoulded name
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<68tjo2dk78pckdc2p7aqjs61r6sqee91a1@4ax.com>
<458a05a9$0$5261$4c368faf@roadrunner.com>
<1166673422.274657.130230@t46g2000cwa.googlegroups.com>
<458a0bfa$0$5228$4c368faf@roadrunner.com>
In-Reply-To: <458a0bfa$0$5228$4c368faf@roadrunner.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <2_udnWEWtf2DXBfYnZ2dnUVZ_ufinZ2d@comcast.com>
Lines: 20
NNTP-Posting-Host: 68.37.243.231
X-Trace: sv3-u9XTeRJmYuTGVNjiTkE/2tutuuR7ftP/
ByFhLfnDxOZcvbbV7JO8p9PvdMCFN8wXvrDPKsPneArpdVo!RKDTsQFBpx4/UrrKzywV/
1fqIqwZdPl95NGj7Rzzln0iF1XkzlTJbYSERuWyzOq9Qg9ESa3qyHvo!eUWzqo/reyngQwg6DWlS
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.policy:59791
rec.radio.amateur.misc:27290 rec.radio.cb:23778 rec.radio.amateur.homebrew:8348

U-Know-Who wrote:
> "an_old_friend" <konstans@hotmail.com> wrote in message
> news:1166673422.274657.130230@t46g2000cwa.googlegroups.com...
>> U-Know-Who wrote:
>>> <Mark@kb9rqz.aprs> wrote in message
>>> news:68tjo2dk78pckdc2p7aqjs61r6sqee91a1@4ax.com...
>>>> On 20 Dec 2006 17:26:49 -0800, "K4YZ" <stevenrobeson@yahoo.com> wrote:
>>>>
>>>> why does steve try to use veterans to imporve his befoulded name
>>>
>>>
>>> Befoulded? Is that some kind of Jewish thing?
>> sad you are an antisemtic too Tom
>>
>
> Sad that you are too fucking stupid to know otherwise. I don't have anything
> against anyone's religion.

Except for those fucking ragheads, that is. Then that's not a religion, it's an
excuse for being a psychotic terrorist.


From 1428241022163896875
X-Google-Thread: fc2a5,e498b8cce687826b,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!80g2000cwy.googlegroups.com!not-for-
mail
From: "julian814" <julian814@hotmail.com>
```

Newsgroups: rec.radio.amateur.homebrew
Subject: Older ARRL Handbooks
Date: 21 Dec 2006 09:20:34 -0800
Organization: http://groups.google.com
Lines: 16
Message-ID: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 207.69.137.9
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1166721651 29739 127.0.0.1 (21 Dec 2006 17:20:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Dec 2006 17:20:51 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 80g2000cwy.googlegroups.com; posting-host=207.69.137.9;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8349

All right, I'm hoping someone here can clue me into finding the one(s)
I want. What I need is a handbook that has schematics for tube
equipment circa the 1960's. I have a boxful of tubes from television
sets from that era, and I was hoping I could put together a receiver
from some of them. I do have the first volume of Impoverished Radio
Experimenter, which talks about using "newer" tubes in older
schematics, but the scant few Lindsay talks about aren't among the
tubes in my box.

I've found a very good used book search engine, but unless I have a
better idea of what to look for, It's going to be hit and miss. Any
help would be greatly appreciated.

Ralph

From -4263397987702711961
X-Google-Thread: fc2a5,a1e7d9eaefd32d34
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 21 Dec 2006 12:02:55 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <em7mqd$mcg$3@puck.litech.org>
<1166559726.337136.17610@a3g2000cwd.googlegroups.com>
<4588549b.625156@news.optonline.net>
Subject: Re: SA605 or SA615 source
Date: Thu, 21 Dec 2006 12:03:01 -0600

```
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <-O2dnW0Zzt_SURfYnZ2dnUVZ_v63nZ2d@comcast.com>
Lines: 19
NNTP-Posting-Host: 71.228.3.96
X-Trace: sv3-
oKPEXtJRiZfs6zFkEl0Wgtac8mAfSkdLnJfLbGYX75BqjDW80GPZYGARh9MKs0BJYdLGhhXwt4u78b+!
MhSIn/KAcwspDYLhE829kNX2Z09p2jTD3NYrZrSMJ6Ao3sZN43/VoyrSViKWX5RGerk6CiF4w6do!
BgghqDLh1wMt
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8350
```

http://www.futurecb.com/Boutique/SearchResult.aspx?
PartNumber=sa605&SearchType=ByID&CategoryName=41212110000&MSCSProfile=3C79F0C7EA31
62B289A6F3317CC124D899EC5BAEEBD2525753306056558EA34EF04F82E39DA7B6EA7DB754EF303E41
C0C0F90F0362A3E6E5AC06FA315B5175238B81A5B2477534B38ED78394270D10184BBB394C7B5033CD
7DD632CC0CCEDF23C3040335AE7F33C58BE98DAC9FE32C2B7FC43D637CAFF0D157EDBDD12D78B7071E
C991C0010C0067

The above link should prove helpful. Future Electronics has a pretty good selection of Philips components. The only catch is that you have to buy a rail of 25 at a time. At the price of $2.65 cach, that isn't too bad. When I buy SA602s, I usually buy 100 at a time. I've got around 100 of the 605s, but who knows where they are. I put them in a safe place, along with the two evaluation boards. Unfortunately, it was too safe of a place!
Give Future Electronics a call.............they will be able to help you. If you can find some friends to split the cost with, that always helps.

Pete

"Rick" <ricknj10@hotmail.com> wrote in message
news:4588549b.625156@news.optonline.net...

> Item #190063731505 on eBay has them right now. $16.50 for 2 pieces
>

```
From 5073490015128594935
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
```

```
filter.phx!newsfe12.phx.POSTED!53ab2750!not-for-mail
From: "M.M." <nobody@nowhere.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
In-Reply-To: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 7
Message-ID: <%3Aih.31712$B42.2983@newsfe12.phx>
Date: Thu, 21 Dec 2006 11:07:55 -0700
NNTP-Posting-Host: 68.104.178.217
X-Complaints-To: admin@cox.net
X-Trace: newsfe12.phx 1166724475 68.104.178.217 (Thu, 21 Dec 2006 11:07:55 MST)
NNTP-Posting-Date: Thu, 21 Dec 2006 11:07:55 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:8351

julian814 wrote:
> All right, I'm hoping someone here can clue me into finding the one(s)
> I want. What I need is a handbook that has schematics for tube
> equipment circa the 1960's. ...

Just about any year's Handbook from the 60's would have what you're
looking for. They really didn't change that much from year to year.


From 2974213663754901974
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!newsfeed.stanford.edu!
news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: 21 Dec 2006 18:13:50 GMT
Organization: The National Capital FreeNet
Lines: 36
Message-ID: <emeisu$s0p$1@theodyn.ncf.ca>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1166724830 28697 134.117.136.48 (21 Dec 2006 18:13:50 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 21 Dec 2006 18:13:50 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8352

"julian814" (julian814@hotmail.com) writes:
> All right, I'm hoping someone here can clue me into finding the one(s)
> I want. What I need is a handbook that has schematics for tube
```

> equipment circa the 1960's. I have a boxful of tubes from television
> sets from that era, and I was hoping I could put together a receiver
> from some of them. I do have the first volume of Impoverished Radio
> Experimenter, which talks about using "newer" tubes in older
> schematics, but the scant few Lindsay talks about aren't among the
> tubes in my box.
>
> I've found a very good used book search engine, but unless I have a
> better idea of what to look for, It's going to be hit and miss. Any
> help would be greatly appreciated.
>
>
> Ralph
>

But if you're just looking for projects, any of the magazines would have had plenty, and it's just a matter of picking them from the right years so they not only use tubes, but of the right vintage tubes.

And if you can't find old magazines, you can get QST on CDROM, so a volume of that from the right time period would supply plenty of projects. Of course, most of the projects in the Handbook came from QST to begin with, so it's not like you miss much in the project department.

Of course, a lot of TV sets were AC/DC, so the filament voltages are all over the map since you'd put them in series to run directly off the AC line. Unless they start with "6" or "12" the tubes may not be so useful.

Michael VE2BVW

From 2024884381939795800
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!feeder.news-service.com!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-08!sn-ams!sn-feed-ams-01!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: Thu, 21 Dec 2006 11:03:30 -0800
Organization: EZNEC Antenna Software
Message-ID: <12olmk8h20f5udc@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>

<emeisu$s0p$1@theodyn.ncf.ca>
In-Reply-To: <emeisu$s0p$1@theodyn.ncf.ca>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 16
Xref: g2news2.google.com rec.radio.amateur.homebrew:8353

Depending on the vintage of the tubes, you might trouble finding data on them.

In the '60s, TV manufacturers made a lot of extra money by changing the tube lineup every year. This required service shops to buy several sets of new tubes every year as replacements. Typically, the innards of the tubes were virtually identical to older ones, but with different pinouts, filament voltages, and combinations of tubes within the envelopes. If your tubes are from this era, you probably won't find them in the Handbook. You might have to get one of the later RCA tube manuals for tube information, then compare specs with various tube types used in Handbook projects to find projects you can build with the tubes you have.

Good luck!

Roy Lewallen, W7EL

From 2280765610881612876
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 21 Dec 2006 13:13:25 -0600
Date: Thu, 21 Dec 2006 20:13:04 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla Thunderbird 1.0.2 (X11/20050322)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
<emeisu$s0p$1@theodyn.ncf.ca>
In-Reply-To: <emeisu$s0p$1@theodyn.ncf.ca>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <oa2dnb8k87NIQRfYnZ2dnUVZ8tSdnZ2d@pipex.net>
Lines: 11
NNTP-Posting-Host: 71.107.26.158
X-Trace: sv3-
Ib5lC3H5PDpoObkpGUDlTxdZPkSnf4uHcxFN1REuw1hhPD5vEM9FY7sT0rpV61QBs11Xt2Yxg/R2bO6!
LLdGWC5W89Nmy6JDKDOz8S/ITUqV3hjR18byW8RD6CwIYtbl43fui8XnfBWVSD+tDqUWnWb1/FO+!
sZRTkaP7flFRMHZlB7EfIyWkJQ==

X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8354

> Of course, a lot of TV sets were AC/DC, so the filament voltages are
> all over the map since you'd put them in series to run directly off
> the AC line. Unless they start with "6" or "12" the tubes
> may not be so useful.

=============================
Being in series means they would all be used with the same filament
current which can be easily implemented with a circuit employing a 78xx
device in constant current mode (obviously in a DC environment)

Frank   KN6WH / GM0CSZ

From -5590312216575597910
X-Google-Thread: fc2a5,492bf471860f4186
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!
trndny08.POSTED!da4e77e4!not-for-mail
Reply-To: "JOHN D" <jawnd393one@yahoo.com>
From: "JOHN D" <jawnd393one@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <no.spam-D502CD.10530317122006@news.verizon.net>
Subject: Re: No Code Required Issue
Lines: 33
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1437
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1441
Message-ID: <V4Dih.6920$Pq4.5781@trndny08>
Date: Thu, 21 Dec 2006 21:33:41 GMT
NNTP-Posting-Host: 71.120.55.159
X-Complaints-To: abuse@verizon.net
X-Trace: trndny08 1166736821 71.120.55.159 (Thu, 21 Dec 2006 16:33:41 EST)
NNTP-Posting-Date: Thu, 21 Dec 2006 16:33:41 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8355

"Al" <no.spam@wanted.com> wrote in message
news:no.spam-D502CD.10530317122006@news.verizon.net...
> Ever since I was a kid, I wanted to be a ham. I could never learn the
> code. It seems I have a very difficult time memorizing. I didn't know my
> multipication table until 8th grade. But somehow I managed to get a

> master's degree in EE and worked as a consultant on a satellite at MIT.
> Yes, it's still working after 10 years.
>
> Now that all the bands will be available to me, I can finally become a
> ham.
>
> Oh, and to those who think the waves will be flooded with idiots. Don't
> worry. After all this never happened to the tech band as far as I know.
>
> Al

I know exactly how you feel. I was interested in ham radio since my early teens. I tried learning the code severel times over the years. There are always those who will say you didn't try hard enough, or you used the wrong method, or you didn't care, or you wern't dedicated enough. There is more to life than studying CW. I'm not a EE but I made a living as a electronic tech for 36 years. In retirement I finally learned enough code to barely pass the test. I went to the testing session prepared to pass the tech test. I got a general class licence from that session. 5 more correct answers and I would have been a extra. Three weeks later I passed the extra test. The elmer who introduced me to amateur radio 40 years ago is probable long dead. It would be nice to tell him I finally made it. I still don't know the multipication tables. The end of CW testing is long overdue. You will be an asset to amateur radio.
John

From -3948343369464609059
X-Google-Thread: 115730,13c2cf942c156fce,start
X-Google-Thread: fc2a5,13c2cf942c156fce,start
X-Google-Attributes: gid115730,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!proxad.net!cleanfeed3-b.proxad.net!nnrp18-2.free.fr!not-for-mail
Date: Thu, 21 Dec 2006 22:36:09 +0100
From: Fred Bartoli <fred._canxxxel_this_bartoli@RemoveThatAlso_free.fr_AndThisToo>
Reply-To: fred._canxxxel_this_bartoli@RemoveThatAlso_free.fr_AndThisToo
User-Agent: Thunderbird 1.5.0.9 (Windows/20061207)
MIME-Version: 1.0
Newsgroups: sci.electronics.equipment,rec.radio.amateur.homebrew
Subject: Cal. kit for a 4195A & 41951A
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 0661-1, 21/12/2006), Outbound message
X-Antivirus-Status: Clean
Lines: 42
Message-ID: <458afe3e$0$25911$426a34cc@news.free.fr>
Organization: Guest of ProXad - France
NNTP-Posting-Date: 21 Dec 2006 22:36:01 MET
NNTP-Posting-Host: 82.253.143.77
X-Trace: 1166736961 news-4.free.fr 25911 82.253.143.77:2097

X-Complaints-To: abuse@proxad.net
Xref: g2news2.google.com sci.electronics.equipment:4689
rec.radio.amateur.homebrew:8356

Hi,

Probably a question for Tom, but others are welcomed to answer too :-)

I've finally got my hands on an HP4195A (0-500MHz and freshly caled) and
also the 41951A impedance set + 16092A fixture. Unfortunately the 41951A
has been badly tempered and the calibration kit (short and 50R load) is
missing.
After some time spent I've fixed the 41951A, and seem to have a fully
functional unit (checked through calibrating it *with* the 16092A
fixture and a pair of selected 100R-0805 as the reference load).
At least the measurements I could do make sense, so far.

Now I'd just like to have all the possible accuracy from this and thus
want to rebuild an APC7 cal kit I can trust.

The original parts aren't available anymore, just 2 50R load left at
agilent at a (cough) $1350 price! and no more short.

I've found agilent has the 909C load which should be OK (given for
SWR=1.005 @ 2GHz).
I've also found an Amphenol short which should be OK since, AIUI, the
short is made by compressing a flat piece against the ref plane of the
mating connector.

I also want to add to this an APC7-SMA adapter for some on board
impedance measurement.

I believe all this would be perfectly OK but since I have not much hands
on experience with VNAs I'd just want to make sure.

Oh, last point, for those knowing it: I don't know if the open load
(04191-85302)is complete or not (it has an opened threading at the
opposite of the mating end) and could I find any picture/doc of it.

Any comment much appreciated.

--
Thanks,
Fred.

From -740611676005157871
X-Google-Thread: fc8b1,83baa9192e5bd59b,start
X-Google-Thread: 108122,83baa9192e5bd59b,start
X-Google-Thread: fc2a5,83baa9192e5bd59b,start
X-Google-Attributes: gidfc8b1,gid108122,gidfc2a5,public

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.phx!newsfe14.phx.POSTED!53ab2750!not-for-mail
From: "AAA Rf Products" <sales@aaarfproducts.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebr
ew
Subject: Coax Cable, Connectors & Adapters
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <72Eih.1416$sp7.221@newsfe14.phx>
Date: Thu, 21 Dec 2006 14:39:01 -0800
NNTP-Posting-Host: 64.58.166.244
X-Complaints-To: admin@cox.net
X-Trace: newsfe14.phx 1166740739 64.58.166.244 (Thu, 21 Dec 2006 15:38:59 MST)
NNTP-Posting-Date: Thu, 21 Dec 2006 15:38:59 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6820
rec.radio.amateur.equipment:7651 rec.radio.amateur.homebrew:8357

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949 481 3154  or email  sales@aaarfproducts.com

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From 4301124496101832961
X-Google-Thread: fc2a5,eb87b9430ef90ee5,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f1g2000cwa.googlegroups.com!not-for-
mail
From: "marc" <amarcpassy@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: VHF-UHF noise bridge
Date: 21 Dec 2006 17:24:49 -0800
Organization: http://groups.google.com
Lines: 5
Message-ID: <1166750689.929253.313830@f1g2000cwa.googlegroups.com>
```

```
NNTP-Posting-Host: 24.174.89.107
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1166750695 5060 127.0.0.1 (22 Dec 2006 01:24:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Dec 2006 01:24:55 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.9)
Gecko/20061206 Firefox/1.5.0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f1g2000cwa.googlegroups.com; posting-host=24.174.89.107;
   posting-account=waQCNw0AAADuIVf2-SeZ5fkt3xlb6zPE
Xref: g2news2.google.com rec.radio.amateur.homebrew:8358
```

I'm looking for a circuit for a noise bridge that covers 30 - 500 MHZ
at a minimum, and preferably 5 MHZ - 500 MHZ.

Thnaks in advance

```
From 204901139630125972
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.hom
ebrew
Subject: Re: A Christmas Present Everyone Can Afford
Date: Thu, 21 Dec 2006 17:26:47 -0800
Message-ID: <72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node19-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1166737945 66.52.61.19 (21 Dec 2006 16:52:25 -0500)
Lines: 8
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.19
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.alt.net!
newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.policy:59932
rec.radio.amateur.misc:27295 rec.radio.cb:23814 rec.radio.amateur.homebrew:8359
```

Please folks, do not reply to these off topic posts.

If these idiots never get any replies, they will eventually give up and go away.

Thanks,

Bill, W6WRT

From -3705037576254162182
X-Google-Thread: 10bf43,365de4945b7823b7
X-Google-Thread: 107ada,365de4945b7823b7
X-Google-Thread: 106d41,365de4945b7823b7
X-Google-Thread: fc2a5,365de4945b7823b7
X-Google-Attributes: gid10bf43,gid107ada,gid106d41,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news2.euro.net!
66.150.105.54.MISMATCH!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!
not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.cb,rec.radio.amateur.homebrew
Subject: Re: A Christmas Present Everyone Can Afford
Date: Thu, 21 Dec 2006 21:11:58 -0500
Message-ID: <emfmo2pt5thtvhlt0g05chucc5sosb9tg7@4ax.com>
References: <1166664409.759771.68300@80g2000cwy.googlegroups.com>
<72dmo2hluhihnugnb9q72nijp1atbb5vnj@4ax.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 14
NNTP-Posting-Date: 22 Dec 2006 01:17:36 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:59935
rec.radio.amateur.misc:27296 rec.radio.cb:23816 rec.radio.amateur.homebrew:8360

On Thu, 21 Dec 2006 17:26:47 -0800, Bill Turner <noway@nowhow.com>
wrote:

>Please folks, do not reply to these off topic posts.
>
>If these idiots never get any replies, they will eventually give up
>and go away.
>
>Thanks,
>
>Bill, W6WRT
hmm I tried that with Steve for 4 fours he just started following me
around
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

```
From 2911285585553533889
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 21 Dec 2006 20:19:25 -0600
Date: Thu, 21 Dec 2006 18:19:19 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
In-Reply-To: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Ld-dnfc8S_Mw3RbYnZ2dnUVZ_oytnZ2d@web-ster.com>
Lines: 36
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-
IHe4475naaz4TgyWck7151PkO74wAgx0iFSPX3noIZJq0bRsNUiBqilEj6vDsMANn8e6G+mDgoX+0mx!
jhKKPGyXdn+5Yj2CDbk7R46v8wge5yxTNO1/rPBcP8goU9SE5kHgv58C/jN2OyFohH21KddirGrG!
XlNTvSMXhbITrKG7
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8361

julian814 wrote:
> All right, I'm hoping someone here can clue me into finding the one(s)
> I want. What I need is a handbook that has schematics for tube
> equipment circa the 1960's. I have a boxful of tubes from television
> sets from that era, and I was hoping I could put together a receiver
> from some of them. I do  have the first volume of Impoverished Radio
> Experimenter, which talks about using "newer" tubes in older
> schematics, but the scant few Lindsay talks about aren't among the
> tubes in my box.
>
> I've found a very good used book search engine, but unless I have a
> better idea of what to look for, It's going to be hit and miss. Any
> help would be greatly appreciated.
>
>
> Ralph
```

>
I was in Powell's Technical Books the other day, they had several from the '50s and '60s.

This link will get you several listings (and I'll get a kickback if you buy one!). I already grabbed the 1944 issue (thank you thank you thank you for making me look!).

http://www.powells.com/partner/30696/s?kw=ARRL%20Handbook

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From -6247622767431401066
X-Google-Thread: fc2a5,e498b8cce687826b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f1g2000cwa.googlegroups.com!not-for-
mail
From: sailtamarack@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Older ARRL Handbooks
Date: 21 Dec 2006 19:20:34 -0800
Organization: http://groups.google.com
Lines: 10
Message-ID: <1166757634.034776.33060@f1g2000cwa.googlegroups.com>
References: <1166721634.845525.113870@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 24.64.223.203
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166757640 25323 127.0.0.1 (22 Dec 2006 03:20:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Dec 2006 03:20:40 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
X-HTTP-Via: 1.0 px1cv (NetCache NetApp/5.6.2R1)
Complaints-To: groups-abuse@google.com
Injection-Info: f1g2000cwa.googlegroups.com; posting-host=24.64.223.203;
   posting-account=gXcV3gwAAACKhdV_aZ9TbpV32cSAnBGe
Xref: g2news2.google.com rec.radio.amateur.homebrew:8362
```

Here is a site with lots of FREE books dealing with tube design. There are old ARRL and Orr radio handbooks as well.

http://www.pmillett.com/tecnical_books_online.htm

The files are huge so you better have a high-speed (not dial-up)
internet connection.

Have fun - Roger

```
From -3508411208072331448
X-Google-Thread: fc2a5,a1e7d9eaefd32d34
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!48g2000cwx.googlegroups.com!not-for-
mail
From: sailtamarack@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SA605 or SA615 source
Date: 21 Dec 2006 19:31:12 -0800
Organization: http://groups.google.com
Lines: 13
Message-ID: <1166758272.886507.194260@48g2000cwx.googlegroups.com>
References: <em7mqd$mcg$3@puck.litech.org>
NNTP-Posting-Host: 24.64.223.203
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166758278 23901 127.0.0.1 (22 Dec 2006 03:31:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Dec 2006 03:31:18 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.1)
Gecko/20061204 Firefox/2.0.0.1,gzip(gfe),gzip(gfe)
X-HTTP-Via: 1.0 px1cv (NetCache NetApp/5.6.2R1)
Complaints-To: groups-abuse@google.com
Injection-Info: 48g2000cwx.googlegroups.com; posting-host=24.64.223.203;
   posting-account=gXcV3gwAAACKhdV_aZ9TbpV32cSAnBGe
Xref: g2news2.google.com rec.radio.amateur.homebrew:8363
```

Mike Andrews wrote:

> Anyone got a source for SA605 or SA615? I want to build the 1-chip
> receiver that Steve Hageman describes in EDN Access of 25 September
> 1997, but am having problems finding the chips. Maybe I'm looking
> past them.
>

DigiKey (www.digikey.com) has both parts for about $5 each. No minimum
and fast shipping

Roger

```
From -9056654888366190990
X-Google-Thread: 10c2ee,bb046759021f47a,start
X-Google-Thread: fc8b1,bb046759021f47a,start
X-Google-Thread: fc2a5,bb046759021f47a,start
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe19.lga.POSTED!53ab2750!not-for-mail
From: "KC0EH" <cvest@cox.net>
Newsgroups:
rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: WTD: Flat mica capacitors
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <4nIih.25832$Rj.18210@newsfe19.lga>
Date: Thu, 21 Dec 2006 21:38:44 -0600
NNTP-Posting-Host: 68.103.64.62
X-Complaints-To: admin@cox.net
X-Trace: newsfe19.lga 1166758464 68.103.64.62 (Thu, 21 Dec 2006 20:34:24 MST)
NNTP-Posting-Date: Thu, 21 Dec 2006 20:34:24 MST
Organization: Cox
Xref: g2news2.google.com rec.antiques.radio+phono:41596
rec.radio.amateur.boatanchors:6821 rec.radio.amateur.homebrew:8364
```

I am in need of some capacitors (600 vdc) for a homebrew 20's vintage project and am looking for period correct parts. If you have some to sell or know of a source , please let me know the price.

(2) .002
(2) .005
(1) .00025

Thanks ,

Charlie

```
From 3783923867046510739
X-Google-Thread: fcc6e,2ae97e7b90a2c8dc
X-Google-Thread: 108122,2ae97e7b90a2c8dc
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Thread: 10bf43,2ae97e7b90a2c8dc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
```

roadrunner.com!not-for-mail
Message-ID: <45847198.90807@coboxincORORATED.com>
Date: Sat, 16 Dec 2006 17:22:16 -0500
From: Christopher Cox <chrisTOPHERcOX@coboxincORORATED.com>
User-Agent: Mozilla Thunderbird 1.0.7 (Windows/20050923)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy
To: Mark@kb9rqz.aprs
Subject: Who are you?
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
<mjc8o21aejleg93ihviietqngd6jqa6003@4ax.com>
<458455D4.6070709@coboxincORORATED.com>
<h4q8o21qaksmrnjfl979ftpvhkdr08tmr9@4ax.com>
In-Reply-To: <h4q8o21qaksmrnjfl979ftpvhkdr08tmr9@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 51
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.antenna:23136
rec.radio.amateur.equipment:7573 rec.radio.amateur.homebrew:8265
rec.radio.amateur.policy:58487

Mark@kb9rqz.aprs wrote:
> On Sat, 16 Dec 2006 15:23:48 -0500, Christopher Cox
> <chrisTOPHERcOX@coboxincORORATED.com> wrote:
>
>
>>Mark@kb9rqz.aprs wrote:
>>
>>>On Fri, 15 Dec 2006 22:31:31 -0600, "Vince Fiscus, KB7ADL"
>>><radiation17@bresnan.net> wrote:
>>>
>>>
>>>
>>>>Ham radio died today.
>>>>
>>>>Sorry for all the brow beating, it won't be happening anymore.
>>>>
>>>>73 de KB7ADL, AKA Slow Code
>>>
>>>
>>>bullshit
>>>http://kb9rqz.blogspot.com/
>>>
>>
>>I am actually surprised to find out it was/is Vince. He's an O.K. guy,
>>puts in volunteer time and is very knowledgeable. While I firmly believe
>>this alter personality detracted from Amateur radio (Slow Code), Vince
>>has done other things to advance it.

>
>
> one can only judge by ones experences as far as I am concerned he is
> slime
>
>>Although I know Vince is very pro Morse code, I am having trouble
>>believing it was him (being Mr. Slow Code)
>>
>>If it was/is him, turning in his license would only be a detriment to
>>the community IMHO.
>
>
> we can do without any ham that behaves as Slow does and without any
> ham that would claim to be slow code wether he is or not
>
>>Chris KC8FRJ
>
> http://kb9rqz.blogspot.com/
>

How do you know Vince, I mean other than a seeming like a, unbalanced at
times, Morse code advocate?

Chris KC8FRJ

```
From -4712369863043861790
X-Google-Thread: fcc6e,2ae97e7b90a2c8dc
X-Google-Thread: 108122,2ae97e7b90a2c8dc
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Thread: 10bf43,2ae97e7b90a2c8dc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy
Subject: Re: Who are you?
Date: Sat, 16 Dec 2006 17:37:49 -0500
Message-ID: <b5t8o2tm3cec3104ad1jtn2anhpiou0b2l@4ax.com>
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
<mjc8o21aejleg93ihviietqngd6jqa6003@4ax.com>
<458455D4.6070709@coboxincORORATED.com>
<h4q8o21qaksmrnjfl979ftpvhkdr08tmr9@4ax.com> <45847198.90807@coboxincORORATED.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 66
NNTP-Posting-Date: 16 Dec 2006 21:43:20 GMT
X-Complaints-To: abuse@teranews.com
```

Xref: g2news2.google.com rec.radio.amateur.antenna:23137
rec.radio.amateur.equipment:7574 rec.radio.amateur.homebrew:8266
rec.radio.amateur.policy:58489

On Sat, 16 Dec 2006 17:22:16 -0500, Christopher Cox
<chrisTOPHERcOX@coboxincORORATED.com> wrote:

>Mark@kb9rqz.aprs wrote:
>> On Sat, 16 Dec 2006 15:23:48 -0500, Christopher Cox
>> <chrisTOPHERcOX@coboxincORORATED.com> wrote:
>>
>>
>>>Mark@kb9rqz.aprs wrote:
>>>
>>>>On Fri, 15 Dec 2006 22:31:31 -0600, "Vince Fiscus, KB7ADL"
>>>><radiation17@bresnan.net> wrote:
>>>>
>>>>
>>>>
>>>>>Ham radio died today.
>>>>>
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>>>>>
>>>>>73 de KB7ADL, AKA Slow Code
>>>>
>>>>
>>>>bullshit
>>>>http://kb9rqz.blogspot.com/
>>>>
>>>
>>>I am actually surprised to find out it was/is Vince. He's an O.K. guy,
>>>puts in volunteer time and is very knowledgeable. While I firmly believe
>>>this alter personality detracted from Amateur radio (Slow Code), Vince
>>>has done other things to advance it.
>>
>>
>> one can only judge by ones experences as far as I am concerned he is
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>>
>>>Although I know Vince is very pro Morse code, I am having trouble
>>>believing it was him (being Mr. Slow Code)
>>>
>>>If it was/is him, turning in his license would only be a detriment to
>>>the community IMHO.
>>
>>
>> we can do without any ham that behaves as Slow does and without any
>> ham that would claim to be slow code wether he is or not
>>
>>>Chris KC8FRJ
>>
>> http://kb9rqz.blogspot.com/
>>

```
>
>How do you know Vince, I mean other than a seeming like a, unbalanced at
>times, Morse code advocate?

that is How I know though his insane staement during recent his all
but incessant diatrbe of insult many derected at me by name

the Gay bashing and the bashing of the disable the tech indeed all new
hams of anysort

the person known here as SC is insane and inhumnne nutjob

if Vince in he then vince is not someone I care to know further, Vince
is merely claiming to be SC I still don't want to know him
>
>Chris KC8FRJ
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From 7645737314267517314
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!16g2000cwy.googlegroups.com!not-for-
mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave UPDATE
Date: 16 Dec 2006 17:06:29 -0800
Organization: http://groups.google.com
Lines: 12
Message-ID: <1166317589.795380.261790@16g2000cwy.googlegroups.com>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
NNTP-Posting-Host: 207.69.137.201
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166317596 32138 127.0.0.1 (17 Dec 2006 01:06:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 17 Dec 2006 01:06:36 +0000 (UTC)
In-Reply-To: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 16g2000cwy.googlegroups.com; posting-host=207.69.137.201;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8267

All right, I think I've found what I'm looking for, but I'll need some
```

help. I found something on textfiles.com that looks to be close to what
I need, but there are some things that aren't quite clear.

http://www.textfiles.com/hamradio/convert.txt

If anyone can help me with the schematics and parts list, I'd
appreciate it.

Ralph Glatt

From 7315051998689632646
X-Google-Thread: fc2a5,c5e46327b03f24dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!t46g2000cwa.googlegroups.com!not-for-mail
From: "kb9olm" <kb9olm@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for a SL6440 Mixer IC
Date: 16 Dec 2006 18:01:21 -0800
Organization: http://groups.google.com
Lines: 15
Message-ID: <1166320881.544361.286380@t46g2000cwa.googlegroups.com>
References: <izigh.2492$yC5.2427@newssvr27.news.prodigy.net>
NNTP-Posting-Host: 69.233.32.186
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166320887 7692 127.0.0.1 (17 Dec 2006 02:01:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 17 Dec 2006 02:01:27 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.8) Gecko/20061025 Firefox/1.5.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: t46g2000cwa.googlegroups.com; posting-host=69.233.32.186;
   posting-account=xOi3xgsAAAAfelfRCVl8G9OkRb55PuE7
Xref: g2news2.google.com rec.radio.amateur.homebrew:8268

Hello,

I do have NOS SL6440 mixers.
Reply to kb9olm AT yahoo DOT com
Vlad, kb9olm

Sbc News wrote:
> I know these have out of production for a while. If anyone knows of a
> source for a dozzen or so, I would be greatful I you would share your
> information with me.
>
> Thanks,

> Emil
> W9NM

From 1106566800566955370
X-Google-Thread: fc2a5,312b4bf58e0307e5
X-Google-Thread: 10f7a7,a3fe7dcfe58fbedc,start
X-Google-Thread: 10bf43,a3fe7dcfe58fbedc,start
X-Google-Thread: 106d41,a3fe7dcfe58fbedc,start
X-Google-Attributes: gidfc2a5,gid10f7a7,gid10bf43,gid106d41,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!16g2000cwy.googlegroups.com!not-for-mail
From: "MarQueerMyDear" <dear_marqueer_marky@mail2princess.com>
Newsgroups: rec.radio.amateur.homebrew,alt.usenet.kooks,rec.radio.amateur.policy,rec.radio.cb
Subject: Re: Antennae base
Date: 16 Dec 2006 18:51:26 -0800
Organization: http://groups.google.com
Lines: 9
Message-ID: <1166323886.555154.184450@16g2000cwy.googlegroups.com>
References: <12o7tv8o2hvm2b8@corp.supernews.com>
NNTP-Posting-Host: 152.163.100.65
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166323892 14923 127.0.0.1 (17 Dec 2006 02:51:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 17 Dec 2006 02:51:32 +0000 (UTC)
In-Reply-To: <12o7tv8o2hvm2b8@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 5.1; yie6),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 Turboweb [rtc-td032 8.4.1], HTTP/1.1 cache-rtc-ab01.proxy.aol.com[98A36441] (Traffic-Server/6.1.3 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: 16g2000cwy.googlegroups.com; posting-host=152.163.100.65;
   posting-account=6aC5ZQ0AAADhTzXlZDlHNVqLI6Q869m4
Xref: g2news2.google.com rec.radio.amateur.homebrew:8269 alt.usenet.kooks:281580 rec.radio.amateur.policy:58522 rec.radio.cb:23541

rcklfrtz wrote:
> Could use some help please. I have a tip over used tower. I want to install
> it and don't know what depth and width the hole has to be and do I have to
> use rebar. Can someone help me? Thanks.

bend over as far as your fat ass can and shove the base up your ass.
divide by 69. problem solved.

From 6113103652288997788
X-Google-Thread: fc2a5,312b4bf58e0307e5
X-Google-Thread: 10bf43,a3fe7dcfe58fbedc
X-Google-Thread: 106d41,a3fe7dcfe58fbedc
X-Google-Attributes: gidfc2a5,gid10bf43,gid106d41,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!feeder.xsnews.nl!
82.197.223.99.MISMATCH!feeder1.cambrium.nl!feed.tweaknews.nl!news2.euro.net!
66.150.105.54.MISMATCH!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!
not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.cb
Subject: kookathon
Date: Sat, 16 Dec 2006 21:55:19 -0500
Message-ID: <9bc9o2ldfbnhnn7sf3heq3i8ctg0n0eelv@4ax.com>
References: <12o7tv8o2hvm2b8@corp.supernews.com>
<1166323886.555154.184450@16g2000cwy.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 7
NNTP-Posting-Date: 17 Dec 2006 02:00:52 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8270
rec.radio.amateur.policy:58525 rec.radio.cb:23542

On 16 Dec 2006 18:51:26 -0800, "MarQueerMyDear"
<dear_marqueer_marky@mail2princess.com> wrote:

>

any reason why you have to drag more and more threads over here woger
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

---

From 7376207945713337129
X-Google-Thread: fc2a5,312b4bf58e0307e5
X-Google-Thread: 10f7a7,a3fe7dcfe58fbedc
X-Google-Thread: 10bf43,a3fe7dcfe58fbedc
X-Google-Thread: 106d41,a3fe7dcfe58fbedc
X-Google-Thread: 1159e3,857b84abf9a8a6d,start
X-Google-Attributes: gidfc2a5,gid10f7a7,gid10bf43,gid106d41,gid1159e3,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l12g2000cwl.googlegroups.com!not-for-mail
From: brian.burp@yahoo.com
Newsgroups:
rec.radio.amateur.homebrew,alt.usenet.kooks,rec.radio.amateur.policy,rec.radio.cb,

```
alt.home.repair
Subject: Re: MORKathon
Date: 16 Dec 2006 19:03:19 -0800
Organization: http://groups.google.com
Lines: 15
Message-ID: <1166324599.850545.81210@l12g2000cwl.googlegroups.com>
References: <12o7tv8o2hvm2b8@corp.supernews.com>
   <1166323886.555154.184450@16g2000cwy.googlegroups.com>
   <9bc9o2ldfbnhnn7sf3heq3i8ctg0n0eelv@4ax.com>
NNTP-Posting-Host: 152.163.100.131
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166324603 16744 127.0.0.1 (17 Dec 2006 03:03:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 17 Dec 2006 03:03:23 +0000 (UTC)
In-Reply-To: <9bc9o2ldfbnhnn7sf3heq3i8ctg0n0eelv@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 5.1;
yie6),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 Turboweb
[rtc-td032 8.4.1], HTTP/1.1 cache-rtc-ac02.proxy.aol.com[98A36483] (Traffic-
Server/6.1.3 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: l12g2000cwl.googlegroups.com; posting-host=152.163.100.131;
   posting-account=0_f6sg0AAADQVyfUJ5pnPSbnHVic07nz
Xref: g2news2.google.com rec.radio.amateur.homebrew:8271 alt.usenet.kooks:281587
rec.radio.amateur.policy:58530 rec.radio.cb:23546 alt.home.repair:141377


M...@kb9rqz.aprs wrote:
> On 16 Dec 2006 18:51:26 -0800, "MarQueerMyDear"
> <dear_marqueer_marky@mail2princess.com> wrote:
>
> >
>
> any reason why you have to drag more and more threads over here woger
> http://kb9rqz.blogspot.com/
>
> --
> Posted via a free Usenet account from http://www.teranews.com

STFU mork, you silly cocksucker!



From -8316325075734567384
X-Google-Thread: fc2a5,312b4bf58e0307e5
X-Google-Thread: 10bf43,a3fe7dcfe58fbedc
X-Google-Thread: 106d41,a3fe7dcfe58fbedc
X-Google-Thread: 1159e3,857b84abf9a8a6d
X-Google-Attributes: gidfc2a5,gid10bf43,gid106d41,gid1159e3,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!nntpserver.com!
```

```
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.cb,alt.home.repair
Subject: Re: MORKathon
Date: Sat, 16 Dec 2006 22:06:23 -0500
Message-ID: <v0d9o2l3jhkkm30ca55ude783iif61fpkk@4ax.com>
References: <12o7tv8o2hvm2b8@corp.supernews.com>
<1166323886.555154.184450@16g2000cwy.googlegroups.com>
<9bc9o2ldfbnhnn7sf3heq3i8ctg0n0eelv@4ax.com>
<1166324599.850545.81210@l12g2000cwl.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 6
NNTP-Posting-Date: 17 Dec 2006 02:11:56 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8272
rec.radio.amateur.policy:58533 rec.radio.cb:23548 alt.home.repair:141379

On 16 Dec 2006 19:03:19 -0800, brian.burp@yahoo.com wrote:

>
 any reason why you have to drag more and more threads over here woger

http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -6987077251989038381
X-Google-Thread: fcc6e,2ae97e7b90a2c8dc
X-Google-Thread: 108122,2ae97e7b90a2c8dc
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Thread: 10bf43,2ae97e7b90a2c8dc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
Date: Sat, 16 Dec 2006 22:42:11 -0500
From: Christopher Cox <chrisTOPHERcOX@coboxincORORATED.com>
User-Agent: Mozilla Thunderbird 1.0.7 (Windows/20050923)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy
Subject: Re: Who are you?
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
```

```
<mjc8o21aejleg93ihviietqngd6jqa6003@4ax.com>
<458455D4.6070709@coboxincORORATED.com>
<h4q8o21qaksmrnjfl979ftpvhkdr08tmr9@4ax.com> <45847198.90807@coboxincORORATED.com>
<b5t8o2tm3cec3104ad1jtn2anhpiou0b2l@4ax.com>
In-Reply-To: <b5t8o2tm3cec3104ad1jtn2anhpiou0b2l@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 86
Message-ID: <4584bc6b$0$7657$4c368faf@roadrunner.com>
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.antenna:23141
rec.radio.amateur.equipment:7578 rec.radio.amateur.homebrew:8273
rec.radio.amateur.policy:58543

Mark@kb9rqz.aprs wrote:
> On Sat, 16 Dec 2006 17:22:16 -0500, Christopher Cox
> <chrisTOPHERcOX@coboxincORORATED.com> wrote:
>
>
>>Mark@kb9rqz.aprs wrote:
>>
>>>On Sat, 16 Dec 2006 15:23:48 -0500, Christopher Cox
>>><chrisTOPHERcOX@coboxincORORATED.com> wrote:
>>>
>>>
>>>
>>>>Mark@kb9rqz.aprs wrote:
>>>>
>>>>
>>>>>On Fri, 15 Dec 2006 22:31:31 -0600, "Vince Fiscus,  KB7ADL"
>>>>><radiation17@bresnan.net> wrote:
>>>>>
>>>>>
>>>>>
>>>>>
>>>>>>Ham radio died today.
>>>>>>
>>>>>>Sorry for all the brow beating, it won't be happening anymore.
>>>>>>
>>>>>>73 de KB7ADL, AKA Slow Code
>>>>>
>>>>>
>>>>>bullshit
>>>>>http://kb9rqz.blogspot.com/
>>>>>
>>>>
>>>>I am actually surprised to find out it was/is Vince. He's an O.K. guy,
>>>>puts in volunteer time and is very knowledgeable. While I firmly believe
>>>>this alter personality detracted from Amateur radio (Slow Code),  Vince
>>>>has done other things to advance it.
>>>
>>>
```

>>>one can only judge by ones experences as far as I am concerned he is
>>>slime
>>>
>>>
>>>>Although I know Vince is very pro Morse code, I am having trouble
>>>>believing it was him (being Mr. Slow Code)
>>>>
>>>>If it was/is him, turning in his license would only be a detriment to
>>>>the community IMHO.
>>>
>>>
>>>we can do without any ham that behaves as Slow does and without any
>>>ham that would claim to be slow code wether he is or not
>>>
>>>
>>>>Chris KC8FRJ
>>>
>>>http://kb9rqz.blogspot.com/
>>>
>>
>>How do you know Vince, I mean other than a seeming like a, unbalanced at
>>times, Morse code advocate?
>
>
> that is How I know though his insane staement during recent his all
> but incessant diatrbe of insult many derected at me by name
>
> the Gay bashing and the bashing of the disable the tech indeed all new
> hams of anysort
>
> the person known here as SC is insane and inhumnne nutjob
>
> if Vince in he then vince is not someone I care to know further, Vince
> is merely claiming to be SC I still don't want to know him
>
>>Chris KC8FRJ
>
> http://kb9rqz.blogspot.com/
>

Wow, read through some of your blog and other pages your blog refers to.
You are quite the lighting rod. You should not be surprised to receive
much attention any many areas.

Best of luck to you.

Chris KC8FRJ

From -9154736372082266293
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l12g2000cwl.googlegroups.com!not-for-mail
From: "wrcromwell@gmail.com" <wrcromwell@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave
Date: 16 Dec 2006 20:05:17 -0800
Organization: http://groups.google.com
Lines: 28
Message-ID: <1166328317.436931.234390@l12g2000cwl.googlegroups.com>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
   <1165840350.029509.309650@79g2000cws.googlegroups.com>
   <1165848660.983456.12930@j44g2000cwa.googlegroups.com>
   <SAyfh.464203$1T2.143592@pd7urf2no>
   <1165946090.272417.284490@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 69.41.2.54
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166328323 25714 127.0.0.1 (17 Dec 2006 04:05:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 17 Dec 2006 04:05:23 +0000 (UTC)
In-Reply-To: <1165946090.272417.284490@80g2000cwy.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.12) Gecko/20051010 Firefox/1.0.7 (Ubuntu package 1.0.7),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l12g2000cwl.googlegroups.com; posting-host=69.41.2.54;
   posting-account=8WESPwwAAAASpl7bP9czUOqZU81tbDAb
Xref: g2news2.google.com rec.radio.amateur.homebrew:8274

julian814 wrote:
> Yukio YANO wrote:
> > TUBES!! Tubes? Off of Battery, 6 Volt?, Vibrator? Inverter? 12 Volt B+
> > tubes ? Not since the 1950s ?
> > Am I reading too much between the lines ?
>
> Yes, tubes. I have some that were pulled from circa 1960's television
> sets, and I thought I'd use them, hoping that they'd be EMP resistant.
> Been on kind of a survivalist kick, lately. Doesn't mean I'd be opposed
> to using more modern equipment, though. One thing I saw that I liked in
> one of the books I purchased was a loop antenna that uses transistors
> to amplify the signal. Thought it might be easier than stringing up a
> lot of wire. ;-)
>
>
> Ralph Glatt

Tubes can be fun. Just be careful not to get zapped by the high voltage
power supplies..that isn't fun.

EMP? If your radio is subjected to one of those you won't be needing a
radio.

Have fun with the tubes and 73,

Bill KU8H

From -2816468188340356957
X-Google-Thread: fcc6e,2ae97e7b90a2c8dc
X-Google-Thread: 108122,2ae97e7b90a2c8dc
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Thread: 10bf43,2ae97e7b90a2c8dc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!
213.132.189.2.MISMATCH!multikabel.net!feed20.multikabel.net!news2.euro.net!
66.150.105.54.MISMATCH!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!
not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy
Subject: Re: Who are you?
Date: Sat, 16 Dec 2006 23:11:24 -0500
Message-ID: <6mg9o2h681veus5p3aeotcq7tipdtffv4a@4ax.com>
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
<mjc8o21aejleg93ihviietqngd6jqa6003@4ax.com>
<458455D4.6070709@coboxincORORATED.com>
<h4q8o21qaksmrnjfl979ftpvhkdr08tmr9@4ax.com> <45847198.90807@coboxincORORATED.com>
<b5t8o2tm3cec3104ad1jtn2anhpiou0b2l@4ax.com>
<4584bc6b$0$7657$4c368faf@roadrunner.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 105
NNTP-Posting-Date: 17 Dec 2006 03:16:57 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:23142
rec.radio.amateur.equipment:7579 rec.radio.amateur.homebrew:8275
rec.radio.amateur.policy:58545

On Sat, 16 Dec 2006 22:42:11 -0500, Christopher Cox
<chrisTOPHERcOX@coboxincORORATED.com> wrote:

>Mark@kb9rqz.aprs wrote:
>> On Sat, 16 Dec 2006 17:22:16 -0500, Christopher Cox
>> <chrisTOPHERcOX@coboxincORORATED.com> wrote:
>>
>>
>>>Mark@kb9rqz.aprs wrote:
>>>

>>>>On Sat, 16 Dec 2006 15:23:48 -0500, Christopher Cox
>>>><chrisTOPHERcOX@coboxincORORATED.com> wrote:
>>>>
>>>>
>>>>
>>>>>Mark@kb9rqz.aprs wrote:
>>>>>
>>>>>
>>>>>>On Fri, 15 Dec 2006 22:31:31 -0600, "Vince Fiscus, KB7ADL"
>>>>>><radiation17@bresnan.net> wrote:
>>>>>>
>>>>>>
>>>>>>
>>>>>>
>>>>>>>Ham radio died today.
>>>>>>>
>>>>>>>Sorry for all the brow beating, it won't be happening anymore.
>>>>>>>
>>>>>>>73 de KB7ADL, AKA Slow Code
>>>>>>
>>>>>>
>>>>>>bullshit
>>>>>>http://kb9rqz.blogspot.com/
>>>>>>
>>>>>
>>>>>I am actually surprised to find out it was/is Vince. He's an O.K. guy,
>>>>>puts in volunteer time and is very knowledgeable. While I firmly believe
>>>>>this alter personality detracted from Amateur radio (Slow Code), Vince
>>>>>has done other things to advance it.
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>>>>one can only judge by ones experences as far as I am concerned he is
>>>>slime
>>>>
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>>>>>Although I know Vince is very pro Morse code, I am having trouble
>>>>>believing it was him (being Mr. Slow Code)
>>>>>
>>>>>If it was/is him, turning in his license would only be a detriment to
>>>>>the community IMHO.
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>>>>
>>>>we can do without any ham that behaves as Slow does and without any
>>>>ham that would claim to be slow code wether he is or not
>>>>
>>>>
>>>>>Chris KC8FRJ
>>>>
>>>>http://kb9rqz.blogspot.com/
>>>>
>>>
>>>How do you know Vince, I mean other than a seeming like a, unbalanced at
>>>times, Morse code advocate?

```
>>
>>
>> that is How I know though his insane staement during recent his all
>> but incessant diatrbe of insult many derected at me by name
>>
>> the Gay bashing and the bashing of the disable the tech indeed all new
>> hams of anysort
>>
>> the person known here as SC is insane and inhumnne nutjob
>>
>> if Vince in he then vince is not someone I care to know further, Vince
>> is merely claiming to be SC I still don't want to know him
>>
>>>Chris KC8FRJ
>>
>> http://kb9rqz.blogspot.com/
>>
>
>
>Wow, read through some of your blog and other pages your blog refers to.
>You are quite the lighting rod. You should not be surprised to receive
>much attention any many areas.

attention is one thing

but your "friend" (or the person you are speaking well of) has in the
last few managed to insult over 300,000 of your fellow hams and likely
the future of Ham radio

sadly in America it is acceptable to blame the target of the attack
your "friend" is one those people he has stated he would rather not be
a Ham than Me allowed to use HF I sugesst he consider following
thorough on his words
>
>Best of luck to you.

luck I don't need

I can if needed make all the luck I need
>
>Chris KC8FRJ
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From -8926761326156446064
X-Google-Thread: fc2a5,c5e46327b03f24dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!
```

```
border1.nntp.dca.giganews.com!nntp.giganews.com!newscon06.news.prodigy.net!
prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr17.news.prodigy.net.POSTED!2eb4dde1!not-for-mail
From: "Hello" <hi@hello..com>
Newsgroups: rec.radio.amateur.homebrew
References: <izigh.2492$yC5.2427@newssvr27.news.prodigy.net>
<1166320881.544361.286380@t46g2000cwa.googlegroups.com>
Subject: Re: Looking for a SL6440 Mixer IC
Lines: 6
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <CD3hh.504$x67.151@newssvr17.news.prodigy.net>
NNTP-Posting-Host: 75.21.121.53
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr17.news.prodigy.net 1166329442 ST000 75.21.121.53 (Sat, 16 Dec
2006 23:24:02 EST)
NNTP-Posting-Date: Sat, 16 Dec 2006 23:24:02 EST
Organization: AT&T http://yahoo.sbc.com
X-UserInfo1:
Q[R_PJSCOHWWRQ@[WZOD]_\@VR]^@B@MCPWZKB]MPXHZUYICD^RAQBKZQTZTX\_I[^G_KGFNON[ZOE_AZN
VO^\XGGNTCIRPIJH[@RQKBXLRZ@CD^HKANYVW@RLGEZEJN@\_WZJBNZYYKVIOR]T]MNMG_Z[YVWSCH_Q[G
PC_A@CARQVXDSDA^M]@DRVUM@RBM
Date: Sat, 16 Dec 2006 22:22:58 -0600
Xref: g2news2.google.com rec.radio.amateur.homebrew:8276

Thanks to everyone that that answered.
Merry Christmas
Emil
W9NM




From 3128970300811656018
X-Google-Thread: 10f7a7,a3fe7dcfe58fbedc
X-Google-Thread: fc2a5,312b4bf58e0307e5
X-Google-Thread: 10bf43,a3fe7dcfe58fbedc
X-Google-Thread: 106d41,a3fe7dcfe58fbedc
X-Google-Thread: 1159e3,857b84abf9a8a6d
X-Google-Attributes: gid10f7a7,gidfc2a5,gid10bf43,gid106d41,gid1159e3,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!16g2000cwy.googlegroups.com!not-for-
mail
From: "I PUNCE" <markpunce@yahoo.com>
Newsgroups:
alt.usenet.kooks,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.cb,
alt.home.repair
Subject: Re: PUNCEathon
Date: 16 Dec 2006 22:38:53 -0800
Organization: http://groups.google.com
```

```
Lines: 14
Message-ID: <1166337533.710940.83820@16g2000cwy.googlegroups.com>
References: <12o7tv8o2hvm2b8@corp.supernews.com>
   <1166323886.555154.184450@16g2000cwy.googlegroups.com>
   <9bc9o2ldfbnhnn7sf3heq3i8ctg0n0eelv@4ax.com>
   <1166324599.850545.81210@l12g2000cwl.googlegroups.com>
   <v0d9o2l3jhkkm30ca55ude783iif61fpkk@4ax.com>
NNTP-Posting-Host: 205.188.116.200
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166337539 15416 127.0.0.1 (17 Dec 2006 06:38:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 17 Dec 2006 06:38:59 +0000 (UTC)
In-Reply-To: <v0d9o2l3jhkkm30ca55ude783iif61fpkk@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 5.1;
yie6),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScHs f p eN:t cCUp s ]), HTTP/1.1 Turboweb
[dtc-tc012 8.4.1], HTTP/1.1 cache-dtc-ad06.proxy.aol.com[CDBC74C8] (Traffic-
Server/6.1.3 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: 16g2000cwy.googlegroups.com; posting-host=205.188.116.200;
   posting-account=bZxC7w0AAACLQ3SNsCY-6JhHg9HUE_bg
Xref: g2news2.google.com alt.usenet.kooks:281631 rec.radio.amateur.homebrew:8277
rec.radio.amateur.policy:58552 rec.radio.cb:23559 alt.home.repair:141419


Mark@kb9rqz.aprs wrote:
> On 16 Dec 2006 19:03:19 -0800, brian.burp@yahoo.com wrote:
>
> >
>  any reason why you have to drag more and more threads over here woger
>
> http://kb9rqz.blogspot.com/
>
> --
> Posted via a free Usenet account from http://www.teranews.com

I PUNCE




From -4747437455255128371
X-Google-Thread: fc2a5,312b4bf58e0307e5
X-Google-Thread: 10bf43,a3fe7dcfe58fbedc
X-Google-Thread: 106d41,a3fe7dcfe58fbedc
X-Google-Thread: 1159e3,857b84abf9a8a6d
X-Google-Attributes: gidfc2a5,gid10bf43,gid106d41,gid1159e3,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!newsgate.cistron.nl!
xs4all!news2.euro.net!66.150.105.54.MISMATCH!nntpserver.com!zeus.nntpserver.com!
hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
```

Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.cb,alt.home.repair
Subject: kookathon
Date: Sun, 17 Dec 2006 01:52:15 -0500
Message-ID: <u4q9o21lot3m2tqome1d3fgjkj3bd5cgle@4ax.com>
References: <12o7tv8o2hvm2b8@corp.supernews.com>
<1166323886.555154.184450@16g2000cwy.googlegroups.com>
<9bc9o2ldfbnhnn7sf3heq3i8ctg0n0eelv@4ax.com>
<1166324599.850545.81210@l12g2000cwl.googlegroups.com>
<v0d9o2l3jhkkm30ca55ude783iif61fpkk@4ax.com>
<1166337533.710940.83820@16g2000cwy.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 14
NNTP-Posting-Date: 17 Dec 2006 05:57:46 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8278
rec.radio.amateur.policy:58557 rec.radio.cb:23561 alt.home.repair:141423

On 16 Dec 2006 22:38:53 -0800, "I PUNCE" <markpunce@yahoo.com> wrote:

>
  any reason why you have to drag more and more threads over here
woger

stil waiting woger I know I wait in vain of course becuase you are
just an attention seeking loser but since this what you need without
doing the damage that gets done if I try and ignore you woger, enjoy

if you were a man you might even express some gratitude for feeding
your trolling, even I only do out of fear of what you willdo if I
don't
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -8189397179633501043
X-Google-Thread: fc2a5,c5e46327b03f24dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!80g2000cwy.googlegroups.com!not-for-mail
From: JIMMIEDEE123@YAHOO.COM
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for a SL6440 Mixer IC
Date: 17 Dec 2006 04:27:23 -0800
Organization: http://groups.google.com
Lines: 19

Message-ID: <1166358443.229047.85300@80g2000cwy.googlegroups.com>
References: <izigh.2492$yC5.2427@newssvr27.news.prodigy.net>
   <1166320881.544361.286380@t46g2000cwa.googlegroups.com>
   <CD3hh.504$x67.151@newssvr17.news.prodigy.net>
NNTP-Posting-Host: 204.108.8.5
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166358449 509 127.0.0.1 (17 Dec 2006 12:27:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 17 Dec 2006 12:27:29 +0000 (UTC)
In-Reply-To: <CD3hh.504$x67.151@newssvr17.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 80g2000cwy.googlegroups.com; posting-host=204.108.8.5;
   posting-account=zCf1Uw0AAAAC_RNkZf7dTivygQcRNODI
Xref: g2news2.google.com rec.radio.amateur.homebrew:8279

Hello wrote:
> Thanks to everyone that that answered.
> Merry Christmas
> Emil
> W9NM

I know a guy down in Ga that made a replacemnet for these. I tused a couple of FETS i think and the whoile cicuit could be built on a DIP header. The limitation of the circuit was that it was not as flexible as the origional, In other words it was not directly plug in compatable all the time but he could always get it to work with a little modification. He is retired now but I usally see him whenever I am down there for Xmas. I doubt if he would want to build any but he would probably share how to build and tweak them with anyone who wanted the info.

Jimmie

From 4249650469598299814
X-Google-Thread: fc2a5,492bf471860f4186,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc08.POSTED!291cd109!not-for-mail
From: Al <no.spam@wanted.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: No Code Required Issue
User-Agent: MT-NewsWatcher/3.1 (PPC)
Message-ID: <no.spam-D502CD.10530317122006@news.verizon.net>
Lines: 13
Date: Sun, 17 Dec 2006 15:53:02 GMT

NNTP-Posting-Host: 70.19.147.254
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc08 1166370782 70.19.147.254 (Sun, 17 Dec 2006 10:53:02 EST)
NNTP-Posting-Date: Sun, 17 Dec 2006 10:53:02 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8280

Ever since I was a kid, I wanted to be a ham. I could never learn the code. It seems I have a very difficult time memorizing. I didn't know my multipication table until 8th grade. But somehow I managed to get a master's degree in EE and worked as a consultant on a satellite at MIT. Yes, it's still working after 10 years.

Now that all the bands will be available to me, I can finally become a ham.

Oh, and to those who think the waves will be flooded with idiots. Don't worry. After all this never happened to the tech band as far as I know.

Al

From 6589130229703585409
X-Google-Thread: fc2a5,492bf471860f4186
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: No Code Required Issue
Date: 17 Dec 2006 16:06:35 GMT
Organization: The National Capital FreeNet
Lines: 32
Message-ID: <em3pub$os$1@theodyn.ncf.ca>
References: <no.spam-D502CD.10530317122006@news.verizon.net>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1166371595 796 134.117.136.48 (17 Dec 2006 16:06:35 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 17 Dec 2006 16:06:35 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8281

Al (no.spam@wanted.com) writes:
> Ever since I was a kid, I wanted to be a ham. I could never learn the
> code. It seems I have a very difficult time memorizing. I didn't know my
> multipication table until 8th grade. But somehow I managed to get a
> master's degree in EE and worked as a consultant on a satellite at MIT.
> Yes, it's still working after 10 years.
>

But of course, your problem was in thinking you needed to memorize the code. What you should have been doing is listening to the code sent at high speed, actually the characters at high speed with lots of spacing betweent he characters so the overall speed is slow, so you hear the sounds of each individual character, rather than a set of dots and dashes. You never go near a code key until you can receive properly, and you basically toss out all those alphabet to code charts.

Just think of all the time you could have had if you'd stuck with it as a kid, rather than thinking it was a matter of memorizing the code, and then thinking you had problems memorizing things.

Learning morse code when I was 12 was one of the easiest things I ever did, and the only reason I waited till 12 was that before that there was a rule in Canada that said you had to be over 15 to get a ham license.

I should also point out that rec.radio.shortwave is not about amateur radio. It's about reception, and only when someone is talking about listening to the amateur bands does amateur radio really become on-topic here. The fact that some decide to spew their junk out of the rec.radio.amateur.* hierarchy here does not make amateur radio on topic.

  Michael

```
From -1174970974591280843
X-Google-Thread: fc2a5,c4696292330bdfd9,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 17 Dec 2006 11:13:02 -0600
From: Kenneth Grimm <kgrimm@adelphia.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: BAMA Notice
Date: Sun, 17 Dec 2006 12:13:02 -0500
Organization: BAMA
Message-ID: <jkuao2584kn2c5h3c1rthnl9hgdddhbvlg@4ax.com>
X-Newsreader: Forte Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 28
NNTP-Posting-Host: 69.168.21.97
X-Trace: sv3-
YaTzOGo44gtlxzcCqVt+SKvs0vBeU1OjwPAavCy21pSbKII2j9Ip6LUnIq3MC3WLkyS8rwd6N3eeTMi!
SJJD86OIgSNCA2guVo/yOcnPLom+y4XIDklLXK6rLRjpIj7yQR0KYU3BXjEIqkkIx2MVVXVmgdJX!sc+
+UzGDNicM26H9eef97w==
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:8282

Notice: Effective January 1, 2007, BAMA will add only manuals with a direct connection to the tube era of ham radio. Only manuals for amateur radio transmitters, receivers, antenna tuners, antennas, keyers, etc. will be added to the collection. The only test equipment that will be added will be those items already listed on the "Needed" list and those items created especially for the amateur radio market.

While I appreciate all the contributions of those whose interest is in test equipment and military equipment, I simply cannot continue to expand the BAMA collection in these areas at this time. I will not be removing the test gear and military manuals currently on BAMA. The BAMA collection will remain intact. I just won't be adding to these areas for the time being.

I want to thank any and all of you who are reading this and have contributed to the BAMA collection. Without your time and effort, BAMA would not have been possible. Thanks again and best wishes to all for the holidays.

73,

Ken K4XL
k4xl@arrl.net

*** BoatAnchor Manual Archive ***
On the web at http://bama.sbc.edu and http://bama.edebris.com
FTP site info: bama.sbc.edu login: anonymous p/w: youremailadr

From -9014896109871912999
X-Google-Thread: fc2a5,492bf471860f4186
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews2.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: No Code Required Issue
References: <no.spam-D502CD.10530317122006@news.verizon.net>
<em3pub$os$1@theodyn.ncf.ca>
In-Reply-To: <em3pub$os$1@theodyn.ncf.ca>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 50
Message-ID: <VAghh.1064$%e7.861@bignews2.bellsouth.net>

X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcbofgnpkjbfdlnlcapobncjjjhhcbapibhlih
odinhpnkbokkoigjpocbdgeblnbcnbpkklaoondfgkbgiggeamegafgmiaehfbkckonbdakjeedbgi
NNTP-Posting-Date: Sun, 17 Dec 2006 14:08:37 EST
Organization: BellSouth Internet Group
Date: Sun, 17 Dec 2006 14:08:45 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8283

Michael Black wrote:
> Al (no.spam@wanted.com) writes:
>> Ever since I was a kid, I wanted to be a ham. I could never learn the
>> code. It seems I have a very difficult time memorizing. I didn't know my
>> multipication table until 8th grade. But somehow I managed to get a
>> master's degree in EE and worked as a consultant on a satellite at MIT.
>> Yes, it's still working after 10 years.
>>
> But of course, your problem was in thinking you needed to memorize
> the code. What you should have been doing is listening to the code
> sent at high speed, actually the characters at high speed with lots of
> spacing betweent he characters so the overall speed is slow, so you hear
> the sounds of each individual character, rather than a set of dots
> and dashes. You never go near a code key until you can receive properly,
> and you basically toss out all those alphabet to code charts.
>
> Just think of all the time you could have had if you'd stuck with it
> as a kid, rather than thinking it was a matter of memorizing the code,
> and then thinking you had problems memorizing things.
>
> Learning morse code when I was 12 was one of the easiest things I
> ever did, and the only reason I waited till 12 was that before that
> there was a rule in Canada that said you had to be over 15 to get
> a ham license.
>
> I should also point out that rec.radio.shortwave is not about amateur
> radio. It's about reception, and only when someone is talking about
> listening to the amateur bands does amateur radio really become on-topic
> here. The fact that some decide to spew their junk out of the
> rec.radio.amateur.* hierarchy here does not make amateur radio on topic.
>
>   Michael
>
Some people never learned the code because they are lazy. Some were
afraid of the very idea of learning the code and never tried. And there
were some who really DID try to learn the code, but for some reason were
not able to. It is a fact that some people just CAN'T learn another
language. (I for one barely got through French in High School). I DID
manage to learn to copy code up to about 15 wpm though. I jealous of
those people that make 45 wpm copy look easy! Maybe it's easier if you
start real young (just as with piano lessons).

I have a good friend that I meet though a mutual interest in model railroading. He also attends most hamfests. He was a CB type, wanted to get a ham ticket, but the code was a roadblock. He eventually got a code-free tech license. (he also eventually, learned the code, just enough to gain Novice privileges).

So don't downgrade people for not being able to learn the code. It CAN be a real roadblock for some people.

```
From -5219850692371445789
X-Google-Thread: fcc6e,2ae97e7b90a2c8dc
X-Google-Thread: 108122,2ae97e7b90a2c8dc
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew
Subject: Re: A moment of silence my friends for a silent key.
Date: Sun, 17 Dec 2006 12:55:25 -0800
Message-ID: <blbbo25epdssnp6sk1g1ss5sc3dmuc0007@4ax.com>
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node48-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1166376063 66.52.61.48 (17 Dec 2006 12:21:03 -0500)
Lines: 8
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.48
Path: g2news2.google.com!news4.google.com!news.glorb.com!hwmnpeer01.lga!
hwmnpeer01.phx!news.highwinds-media.com!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.antenna:23169
rec.radio.amateur.equipment:7589 rec.radio.amateur.homebrew:8284
```

Please folks, do not reply to these off topic posts.

If these idiots never get any replies, they will eventually give up and go away.

Thanks,

Bill, W6WRT

```
From 279926182400123738
X-Google-Thread: fc2a5,492bf471860f4186
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: No Code Required Issue
```

Date: Sun, 17 Dec 2006 12:56:42 -0800
Message-ID: <1obbo25f3r3oh03qsuinki0hsdprmqluq4@4ax.com>
References: <no.spam-D502CD.10530317122006@news.verizon.net>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node48-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1166376142 66.52.61.48 (17 Dec 2006 12:22:22 -0500)
Lines: 8
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.48
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.karotte.org!
feeder06.uucp-net.de!news.uucp.at!news.albasani.net!nuzba.szn.dk!pnx.dk!
usenet.ath.cx!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8285

Please folks, do not reply to these off topic posts.

If these idiots never get any replies, they will eventually give up
and go away.

Thanks,

Bill, W6WRT

From 3131198632947457245
X-Google-Thread: fc2a5,492bf471860f4186
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc06.POSTED!291cd109!not-for-mail
From: Al <no.spam@wanted.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: No Code Required Issue
References: <no.spam-D502CD.10530317122006@news.verizon.net>
<em3pub$os$1@theodyn.ncf.ca>
User-Agent: MT-NewsWatcher/3.1 (PPC)
Message-ID: <no.spam-C7FA00.16313217122006@news.verizon.net>
Lines: 39
Date: Sun, 17 Dec 2006 21:31:31 GMT
NNTP-Posting-Host: 70.19.147.105
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc06 1166391091 70.19.147.105 (Sun, 17 Dec 2006 16:31:31 EST)
NNTP-Posting-Date: Sun, 17 Dec 2006 16:31:31 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8286

In article <em3pub$os$1@theodyn.ncf.ca>,
 et472@FreeNet.Carleton.CA (Michael Black) wrote:

```
> Al (no.spam@wanted.com) writes:
> > Ever since I was a kid, I wanted to be a ham. I could never learn the
> > code. It seems I have a very difficult time memorizing. I didn't know my
> > multipication table until 8th grade. But somehow I managed to get a
> > master's degree in EE and worked as a consultant on a satellite at MIT.
> > Yes, it's still working after 10 years.
> >
> But of course, your problem was in thinking you needed to memorize
> the code.  What you should have been doing is listening to the code
> sent at high speed, actually the characters at high speed with lots of
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> and dashes.  You never go near a code key until you can receive properly,
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>
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>
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> radio.  It's about reception, and only when someone is talking about
> listening to the amateur bands does amateur radio really become on-topic
> here.  The fact that some decide to spew their junk out of the
> rec.radio.amateur.* hierarchy here does not make amateur radio on topic.
>
>   Michael
>

I thought rec was short for "recreation."

Al



From -8634698167756824117
X-Google-Thread: fc2a5,1f2729639325e0ee
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!newsgate.cistron.nl!
xs4all!news2.euro.net!newshub3.home.nl!newshub1.home.nl!home.nl!not-for-mail
From: "Bas Viel" <sjouk@home.nl>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: impedance/noise match
Date: Mon, 18 Dec 2006 04:55:43 +0100
Organization: @Home Benelux
Lines: 26
Message-ID: <em53g2$4o5$1@news2.zwoll1.ov.home.nl>
References: <elugke$b8u$1@pcls4.std.com>
NNTP-Posting-Host: cc448532-b.delfz1.gr.home.nl
```

```
X-Trace: news2.zwoll1.ov.home.nl 1166414146 4869 217.121.14.52 (18 Dec 2006
03:55:46 GMT)
X-Complaints-To: usenet@corp.home.nl
NNTP-Posting-Date: Mon, 18 Dec 2006 03:55:46 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Xref: g2news2.google.com rec.radio.amateur.homebrew:8287

Lowest noise does not equal highest gain.
Highest gain equals source impedance equals system impedance.
So, LNA equals source impedance gives not necessarely lowest noise.
Tune LNA for lowest noise, the gain will be somewhat lower.
Its the S/N ratio that counts especially important for an LNA.


"Joseph H Allen" <jhallen@TheWorld.com> schreef in bericht
news:elugke$b8u$1@pcls4.std.com...
>
> What do you do if the input impedance of an LNA does not equal the source
> impedance which gives the lowest noise?
>
> The source might be an antenna, transmission line or filter which will not
> work properly if it does not see the correct impedance.
>
> --
> /*  jhallen@world.std.com AB1GO */                        /* Joseph H.
> Allen */
> int
> a[1817];main(z,p,q,r){for(p=80;q+p-80;p-=2*a[p])for(z=9;z--;)q=3&(r=time(0)
> +r*57)/7,q=q?q-1?q-2?1-p%79?-1:0:p%79-77?1:0:p<1659?79:0:p>158?-79:0,q?!a[p+q*2
> ]?a[p+=a[p+=q]=q]=q:0:0;for(;q++-1817;)printf(q%79?"%c":"%c\n","
> #"[!a[q-1]]);}




From -4463676383015785071
X-Google-Thread: fc2a5,1f2729639325e0ee
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l12g2000cwl.googlegroups.com!not-for-
mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: impedance/noise match
Date: 17 Dec 2006 20:13:28 -0800
Organization: http://groups.google.com
Lines: 35
Message-ID: <1166415208.792559.265390@l12g2000cwl.googlegroups.com>
References: <elugke$b8u$1@pcls4.std.com>
```

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NNTP-Posting-Host: 71.113.50.140
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1166415218 28779 127.0.0.1 (18 Dec 2006 04:13:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 18 Dec 2006 04:13:38 +0000 (UTC)
In-Reply-To: <elugke$b8u$1@pcls4.std.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l12g2000cwl.googlegroups.com; posting-host=71.113.50.140;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:8288
```

On Dec 15, 7:57 am, jhal...@TheWorld.com (Joseph H Allen) wrote:

> What do you do if the input impedance of an LNA does not equal the source
> impedance which gives the lowest noise?
>
> The source might be an antenna, transmission line or filter which will not
> work properly if it does not see the correct impedance.

What exactly do you mean by "will not work properly"? There are a lot of effects possible; reflections on a transmission line may cause "ghosts" in an analog video image, or an improperly terminated filter may not give the needed frequency response. But there are ways around those problems: put the LNA at the antenna, or design the filter to work into the load impedance it will actually "see." Or maybe the lowest possible noise is not a requirement, and you can optimize system performance with a tradeoff between noise and some other parameter.

Lucky indeed is the designer who is able to optimize all parameters at the same time. A big part of design is often selecting the tradeoffs so the overall system goals can be met with enough margin to let the system operate reliably.

Also, you may be surprised to find out just how little gain is sacrificed by using an optimal noise match instead of an optimal power match, or how little a filter's performance is altered by tuning for minimum noise figure.

Finally, can you think of a way to alter the amplifier's input impedance in a way that does not degrade noise, so that you come closer to an impedance match while maintaining a match for optimal noise?

Cheers,
Tom

From -5624337297871952936

X-Google-Thread: fc2a5,250b78003b2e11a4,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc01.POSTED!32caf202!not-for-mail
From: "west" <restccq2@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Power Supply Meters
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <Bephh.212$pr5.108@trnddc01>
Date: Mon, 18 Dec 2006 04:59:13 GMT
NNTP-Posting-Host: 71.98.172.120
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc01 1166417953 71.98.172.120 (Sun, 17 Dec 2006 23:59:13 EST)
NNTP-Posting-Date: Sun, 17 Dec 2006 23:59:13 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8289

I have a 40 amp, 13.8v supply and would like to add a voltage (0-15v) meter and an amp (0-50amp) meter. The meters look frail and I can't imagine running all that current through those flimsy connectors and tiny meter coil. I have no paperwork on the meters and was wondering if I need a shunt resistor or something to take all that current. Any ideas? Thank you.

Cordially,
west

From 2642719876039155153
X-Google-Thread: fc2a5,250b78003b2e11a4
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!newspeer.tds.net!216.170.153.140.MISMATCH!newsreading01.news.tds.net!53ab2750!not-for-mail
From: William Pence <billpence@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power Supply Meters
References: <Bephh.212$pr5.108@trnddc01>
User-Agent: MT-NewsWatcher/3.5.2 (PPC Mac OS X)
Message-ID: <billpence-EAFC78.00171918122006@h216-170-153-147.216-170.unk.tds.net>
Lines: 28
Date: Mon, 18 Dec 2006 05:17:19 GMT
NNTP-Posting-Host: 69.130.146.30
X-Complaints-To: news@tds.net
X-Trace: newsreading01.news.tds.net 1166419039 69.130.146.30 (Sun, 17 Dec 2006 23:17:19 CST)
NNTP-Posting-Date: Sun, 17 Dec 2006 23:17:19 CST

Organization: tds.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8290

In article <Bephh.212$pr5.108@trnddc01>, "west" <restccq2@verizon.net>
wrote:

> I have a 40 amp, 13.8v supply and would like to add a voltage (0-15v) meter
> and an amp (0-50amp) meter. The meters look frail and I can't imagine
> running all that current through those flimsy connectors and tiny meter
> coil. I have no paperwork on the meters and was wondering if I need a shunt
> resistor or something to take all that current. Any ideas? Thank you.
>
> Cordially,
> west

yep. the amp meter will definitely need a shunt. that value is dependent
on the actual coil current for full scale.

the voltmeter can just wire directly across the output voltage
terminals, but the ammeter will require a shunt.

if the full scale is 50 amp, and the meter is a 1 ma movement, then
49.999 amps must be taken care of in the shunt. the value of the shunt
can be found like this:
you need to apply enough current to the ammeter to get full scale. this
will require a very careful setup.
then measure the voltage across the meter terminals.
now you know V and I.
then you can calculate R for the shunt sine it will be V on the meter,
and 50.000 - the current required to get a full scale reading on the
ammeter.

From 8440250964381412222
X-Google-Thread: fc2a5,250b78003b2e11a4
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bt.com!news.bt.com.POSTED!
not-for-mail
NNTP-Posting-Date: Mon, 18 Dec 2006 01:03:36 -0600
From: "Ken chattenton" <k.chattenton@btopenworld.com>
Newsgroups: rec.radio.amateur.homebrew
References: <Bephh.212$pr5.108@trnddc01> <billpence-
EAFC78.00171918122006@h216-170-153-147.216-170.unk.tds.net>
Subject: Re: Power Supply Meters
Date: Mon, 18 Dec 2006 07:03:19 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <drqdnTJ1DOrVoBvYRVnygAA@bt.com>

Lines: 26
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X-AuthenticatedUsername: NoAuthUser
X-Trace: sv3-ifiYh/
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7pQYknTiXFtrVy3rK5Sup9CBg0dSTl/oTFPxiBEZ7aP+h9TY/dwoJ68BN7W56sXG
X-Complaints-To: abuse@btinternet.com
X-DMCA-Complaints-To: abuse@btinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8291

Hi from Ken,

"William Pence" <billpence@bellsouth.net> wrote in message
news:billpence-EAFC78.00171918122006@h216-170-153-147.216-170.unk.tds.net...
> In article <Bephh.212$pr5.108@trnddc01>, "west" <restccq2@verizon.net>
> wrote:
>
>> I have a 40 amp, 13.8v supply and would like to add a voltage (0-15v)
>> meter
>> and an amp (0-50amp) meter. >> Cordially,
>> west
>
> yep. the amp meter will definitely need a shunt. that value is dependent
> on the actual coil current for full scale.
>
> the voltmeter can just wire directly across the output voltage
> terminals, but the ammeter will require a shunt.
>

If the volt meter is not already calibrated it will require a resistor in
series with the positive lead.
Depending on the movement of the meter the resistor could be around say,
49Kohm.

Good luck, Ken, G4KIR.

From -4205833337245202074
X-Google-Thread: fc2a5,250b78003b2e11a4
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!newsfeed1.funet.fi!
newsfeeds.funet.fi!feeder1.news.saunalahti.fi!reader1.news.saunalahti.fi!53ab2750!
not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power Supply Meters
Message-ID: <0ljco21cs8d42q81818fdg53s48b32pau3@4ax.com>

References: <Bephh.212$pr5.108@trnddc01>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 35
Date: Mon, 18 Dec 2006 10:18:07 +0200
NNTP-Posting-Host: 195.197.6.95
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1166429786 195.197.6.95 (Mon, 18 Dec 2006 10:16:26 EET)
NNTP-Posting-Date: Mon, 18 Dec 2006 10:16:26 EET
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:8292

On Mon, 18 Dec 2006 04:59:13 GMT, "west" <restccq2@verizon.net> wrote:

>I have a 40 amp, 13.8v supply and would like to add a voltage (0-15v) meter and an amp (0-50amp) meter. The meters look frail and I can't imagine running all that current through those flimsy connectors and tiny meter coil. I have no paperwork on the meters and was wondering if I need a shunt resistor or something to take all that current. Any ideas? Thank you.

In many cases you should already have a suitable shunt resistor installed. In power supplies built around the 723 voltage regulator IC, there are is usually a low resistance (but high power handling) resistor for the short circuit protection (usually between the power transistor emitter and power supply output). When the voltage drop across this resistor exceeds about 0.7 V, the short circuit protection will kick in, limiting the current.

By measuring the voltage drop across this resistor, the output current can be determined. By using a moving coil instrument and a suitable series resistor, the meter can be easily calibrated.

Since you have a 40 A power supply, there are most likely several power transistors in parallel, each having a low resistance resistor at the emitter to balance unequal currents through the power transistors.

The voltage drop across one of these resistors could be used to give an estimate of the total current. This is just a rough estimate, since the currents through the transistors varies e.g. with temperature (the transistors at the end of the array may have a lower temperature than those in the middle of the heatsink), the currents are not exactly equal, so multiplying the measurement with the number of transistors is not very accurate, but may be sufficient in most cases.

Paul OH3LWR

From -2646123379365040490

```
X-Google-Thread: fc2a5,250b78003b2e11a4
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: budgie <me@privacy.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power Supply Meters
Date: Mon, 18 Dec 2006 20:07:18 +0800
Message-ID: <q21do2prmdbgkkv25aoib8irapulu81vng@4ax.com>
References: <Bephh.212$pr5.108@trnddc01> <billpence-
EAFC78.00171918122006@h216-170-153-147.216-170.unk.tds.net>
<drqdnTJ1DOrVoBvYRVnygAA@bt.com>
X-Newsreader: Forte Free Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: dsl-58-7-222-252.wa.westnet.com.au
X-Trace: quokka.wn.com.au 1166439961 58.7.222.252 (18 Dec 2006 20:06:01 +0800)
Lines: 25
X-Complaints-To: abuse@westnet.com.au
Path: g2news2.google.com!news2.google.com!news.germany.com!news.musoftware.de!
quokka.wn.com.au!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8293

On Mon, 18 Dec 2006 07:03:19 -0000, "Ken chattenton"
<k.chattenton@btopenworld.com> wrote:

>Hi from Ken,
>
>"William Pence" <billpence@bellsouth.net> wrote in message
>news:billpence-EAFC78.00171918122006@h216-170-153-147.216-170.unk.tds.net...
>> In article <Bephh.212$pr5.108@trnddc01>, "west" <restccq2@verizon.net>
>> wrote:
>>
>>> I have a 40 amp, 13.8v supply and would like to add a voltage (0-15v)
>>> meter
>>> and an amp (0-50amp) meter. >> Cordially,
>>> west
>>
>> yep. the amp meter will definitely need a shunt. that value is dependent
>> on the actual coil current for full scale.
>>
>> the voltmeter can just wire directly across the output voltage
>> terminals, but the ammeter will require a shunt.
>>
>If the volt meter is not already calibrated it will require a resistor in
>series with the positive lead.

or the negative lead


From -6712970986522554328
X-Google-Thread: fc2a5,250b78003b2e11a4
X-Google-Attributes: gidfc2a5,public
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```
X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 18 Dec 2006 06:00:54 -0600
Date: Mon, 18 Dec 2006 12:00:52 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power Supply Meters
References: <Bephh.212$pr5.108@trnddc01> <billpence-
EAFC78.00171918122006@h216-170-153-147.216-170.unk.tds.net>
In-Reply-To: <billpence-
EAFC78.00171918122006@h216-170-153-147.216-170.unk.tds.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
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Lines: 40
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X-Trace: sv3-
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F6qlmHTRMI4FYdIoAQnr4D9vDP8CtFX68I5lkvA4IoJFd/Gi8Zo0yGmF7/o9tGEa6WiBhBJ8R0QN!
6IKFtNGwrg==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8294
```

Ummm...it's early here so maybe I missed something. The meter CAN'T just be placed across the output terminals to measure output voltage. It will need a series resistor in one of the leads. It's value will need to be calculated as well.

Scott

William Pence wrote:

> In article <Bephh.212$pr5.108@trnddc01>, "west" <restccq2@verizon.net>
> wrote:
>
>
>>I have a 40 amp, 13.8v supply and would like to add a voltage (0-15v) meter
>>and an amp (0-50amp) meter. The meters look frail and I can't imagine
>>running all that current through those flimsy connectors and tiny meter
>>coil. I have no paperwork on the meters and was wondering if I need a shunt
>>resistor or something to take all that current. Any ideas? Thank you.

>>
>>Cordially,
>>west
>
>
> yep. the amp meter will definitely need a shunt. that value is dependent
> on the actual coil current for full scale.
>
> the voltmeter can just wire directly across the output voltage
> terminals, but the ammeter will require a shunt.
>
> if the full scale is 50 amp, and the meter is a 1 ma movement, then
> 49.999 amps must be taken care of in the shunt. the value of the shunt
> can be found like this:
> you need to apply enough current to the ammeter to get full scale. this
> will require a very careful setup.
> then measure the voltage across the meter terminals.
> now you know V and I.
> then you can calculate R for the shunt sine it will be V on the meter,
> and 50.000 - the current required to get a full scale reading on the
> ammeter.

From 920693582527096112
X-Google-Thread: fc2a5,e00f88b77deda7b2,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!
news.litech.org!not-for-mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: SWR and resonance measurements without an MFJ269 or equiv.
Date: Mon, 18 Dec 2006 15:08:17 +0000 (UTC)
Organization: Me?
Lines: 14
Sender: mikea@mikea.ath.cx
Message-ID: <em6at1$f9i$1@puck.litech.org>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1166454497 15666 68.15.203.64 (18 Dec 2006 15:08:17 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Mon, 18 Dec 2006 15:08:17 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:8295

Some friends and I have been looking into making antennas for 70 cm.
and higher frequencies, but we don't have an MFJ-269; my MFJ-259 tops
out at 175 MHz. I _do_, however, have an SWR meter that supposedly
works up to 500 MHz(and maybe higher), and an HP 8640B that is good
to about 1.2 GHz.

If the SWR meter is sensitive enough, could I get at least ballpark
SWR values using the 8640B as a source, running the signal through
the SWR meter to the antenna? Or am I way off in left field?

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From -2310218112222601750
X-Google-Thread: fc2a5,c5e46327b03f24dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr29.news.prodigy.net.POSTED!2eb4dde1!not-for-mail
From: "Sbc News" <Andy@Hardy.com>
Newsgroups: rec.radio.amateur.homebrew
References: <izigh.2492$yC5.2427@newssvr27.news.prodigy.net>
<1166320881.544361.286380@t46g2000cwa.googlegroups.com>
<CD3hh.504$x67.151@newssvr17.news.prodigy.net>
<1166358443.229047.85300@80g2000cwy.googlegroups.com>
Subject: Re: Looking for a SL6440 Mixer IC
Lines: 32
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <0HAhh.154$sR.20@newssvr29.news.prodigy.net>
NNTP-Posting-Host: 69.11.245.136
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr29.news.prodigy.net 1166464828 ST000 69.11.245.136 (Mon, 18 Dec
2006 13:00:28 EST)
NNTP-Posting-Date: Mon, 18 Dec 2006 13:00:28 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
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WGN^\DHNVMX_DHHX[FSQKBOTS@@BP^]C@RHS_AGDDC[AJM_T[GZNRNZAY]GNCPBDYKOLK^_CZFWPGHZIXW
@C[AFKBBQS@E@DAZ]VDFUNTQQ]FN
Date: Mon, 18 Dec 2006 18:00:28 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8296

Thanks very much for the info Jimmie. The mixer is for a home brew project,
so I wouldn't mind building-up one.

If you could have him emial a brief description of his circuit, I would
appreciate it. email at: w9nm at sbcglobal dot com

73, Emil

```
<JIMMIEDEE123@YAHOO.COM> wrote in message
news:1166358443.229047.85300@80g2000cwy.googlegroups.com...
>
> Hello wrote:
>> Thanks to everyone that that answered.
>> Merry Christmas
>> Emil
>> W9NM
>
> I know a guy down in Ga that made a replacemnet for these. I tused a
> couple of FETS  i think and the whoile cicuit could be built on a DIP
> header. The limitation of the circuit was that it was not as flexible
> as the origional, In other words it was not directly plug in compatable
> all the time but he could always get it to work with a little
> modification. He is retired now but I usally see him whenever I am down
> there for Xmas. I doubt if he would want to build any but he would
> probably share how to build and tweak them with anyone who wanted the
> info.
>
> Jimmie
>
```

```
From 4970451927530834145
X-Google-Thread: fc2a5,250b78003b2e11a4
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!
newshosting.com!198.186.194.247.MISMATCH!news-out.readnews.com!news-
xxxfer.readnews.com!newspeer.tds.net!216.170.153.140.MISMATCH!
newsreading01.news.tds.net!53ab2750!not-for-mail
From: William Pence <billpence@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power Supply Meters
References: <Bephh.212$pr5.108@trnddc01> <billpence-
EAFC78.00171918122006@h216-170-153-147.216-170.unk.tds.net>
<drqdnTJ1DOrVoBvYRVnygAA@bt.com> <q21do2prmdbgkkv25aoib8irapulu81vng@4ax.com>
User-Agent: MT-NewsWatcher/3.5.2 (PPC Mac OS X)
Message-ID: <billpence-74E220.13144818122006@h216-170-153-147.216-170.unk.tds.net>
Lines: 32
Date: Mon, 18 Dec 2006 18:14:48 GMT
NNTP-Posting-Host: 69.130.152.173
X-Complaints-To: news@tds.net
X-Trace: newsreading01.news.tds.net 1166465688 69.130.152.173 (Mon, 18 Dec 2006
12:14:48 CST)
NNTP-Posting-Date: Mon, 18 Dec 2006 12:14:48 CST
Organization: tds.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8297
```

```
In article <q21do2prmdbgkkv25aoib8irapulu81vng@4ax.com>,
 budgie <me@privacy.net> wrote:

> On Mon, 18 Dec 2006 07:03:19 -0000, "Ken chattenton"
> <k.chattenton@btopenworld.com> wrote:
>
> >Hi from Ken,
> >
> >"William Pence" <billpence@bellsouth.net> wrote in message
> >news:billpence-EAFC78.00171918122006@h216-170-153-147.216-170.unk.tds.net...
> >> In article <Bephh.212$pr5.108@trnddc01>, "west" <restccq2@verizon.net>
> >> wrote:
> >>
> >>> I have a 40 amp, 13.8v supply and would like to add a voltage (0-15v)
> >>> meter
> >>> and an amp (0-50amp) meter. >> Cordially,
> >>> west
> >>
> >> yep. the amp meter will definitely need a shunt. that value is dependent
> >> on the actual coil current for full scale.
> >>
> >> the voltmeter can just wire directly across the output voltage
> >> terminals, but the ammeter will require a shunt.
> >>
> >If the volt meter is not already calibrated it will require a resistor in
> >series with the positive lead.
>
> or the negative lead

that is entirely possible.  in general, I have seen voltmeters that are
already cal'd with this resistor internal...
this might have been special case (s). it has been a while.


From 7819265852727234569
X-Google-Thread: fc2a5,e00f88b77deda7b2
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l12g2000cwl.googlegroups.com!not-for-
mail
From: "Wes" <n7ws@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR and resonance measurements without an MFJ269 or equiv.
Date: 18 Dec 2006 10:39:54 -0800
Organization: http://groups.google.com
Lines: 15
Message-ID: <1166467194.040860.125540@l12g2000cwl.googlegroups.com>
References: <em6at1$f9i$1@puck.litech.org>
NNTP-Posting-Host: 4.240.186.191
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166467248 11307 127.0.0.1 (18 Dec 2006 18:40:48 GMT)
X-Complaints-To: groups-abuse@google.com
```

```
NNTP-Posting-Date: Mon, 18 Dec 2006 18:40:48 +0000 (UTC)
In-Reply-To: <em6at1$f9i$1@puck.litech.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.8)
Gecko/20061025 Firefox/1.5.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l12g2000cwl.googlegroups.com; posting-host=4.240.186.191;
   posting-account=nRzaww0AAACJ-gr2UlWsSMxfCpqhAxOU
Xref: g2news2.google.com rec.radio.amateur.homebrew:8298


Mike Andrews wrote:
> Some friends and I have been looking into making antennas for 70 cm.
> and higher frequencies, but we don't have an MFJ-269; my MFJ-259 tops
> out at 175 MHz. I _do_, however, have an SWR meter that supposedly
> works up to 500 MHz( and maybe higher), and an HP 8640B that is good
> to about 1.2 GHz.
>
> If the SWR meter is sensitive enough, could I get at least ballpark
> SWR values using the 8640B as a source, running the signal through
> the SWR meter to the antenna? Or am I way off in left field?

What kind of "SWR meter" are you talking about?  The '8640 may or may
not have enough power to be suitable.




From 2338654220285354759
X-Google-Thread: fc2a5,e00f88b77deda7b2
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.litech.org!not-for-
mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR and resonance measurements without an MFJ269 or equiv.
Date: Mon, 18 Dec 2006 19:16:51 +0000 (UTC)
Organization: Me?
Lines: 30
Sender: mikea@mikea.ath.cx
Message-ID: <em6pf3$slf$1@puck.litech.org>
References: <em6at1$f9i$1@puck.litech.org>
<1166467194.040860.125540@l12g2000cwl.googlegroups.com>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1166469411 29359 68.15.203.64 (18 Dec 2006 19:16:51 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Mon, 18 Dec 2006 19:16:51 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:8299
```

On 18 Dec 2006 10:39:54 -0800, Wes <n7ws@yahoo.com> wrote in
<1166467194.040860.125540@l12g2000cwl.googlegroups.com>:

> Mike Andrews wrote:
>> Some friends and I have been looking into making antennas for 70 cm.
>> and higher frequencies, but we don't have an MFJ-269; my MFJ-259 tops
>> out at 175 MHz. I _do_, however, have an SWR meter that supposedly
>> works up to 500 MHz(and maybe higher), and an HP 8640B that is good
>> to about 1.2 GHz.
>>
>> If the SWR meter is sensitive enough, could I get at least ballpark
>> SWR values using the 8640B as a source, running the signal through
>> the SWR meter to the antenna? Or am I way off in left field?

> What kind of "SWR meter" are you talking about? The '8640 may or may
> not have enough power to be suitable.

A fairly el-cheapo no-name, but appearently good-enough on 2m and from
420 to 450 MHz. I haven't fiddled with it to see how much drive power
is required.

I suppose I can get a couple of RF amplitude measuring chips and make
the critter active instead of passive, if necessary. The 8640, IIRC,
is good for +20 dBm (3V) into 50 Ohms, or a lusty 180 mW flat-out, but
the finals on the 8640 are unobtainium and so I'm minded to stay well
below that -- and even lower outside the ham bands.

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From 2438477740184749290
X-Google-Thread: fc2a5,e00f88b77deda7b2
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-online.de!news.germany.com!aioe.org!fmmck
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR and resonance measurements without an MFJ269 or equiv.
Date: Mon, 18 Dec 2006 15:02:43 -0500
Organization: Aioe.org NNTP Server
Lines: 24
Message-ID: <fmmck-504DBE.15024218122006@nntp.aioe.org>
References: <em6at1$f9i$1@puck.litech.org>
NNTP-Posting-Host: YW+LfG6hiNA+a0fB1+lVUg.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.2 (Intel Mac OS X)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8300

In article <em6at1$f9i$1@puck.litech.org>,
"Mike Andrews" <mikea@mikea.ath.cx> wrote:

> Some friends and I have been looking into making antennas for 70 cm.
> and higher frequencies, but we don't have an MFJ-269; my MFJ-259 tops
> out at 175 MHz. I _do_, however, have an SWR meter that supposedly
> works up to 500 MHz(and maybe higher), and an HP 8640B that is good
> to about 1.2 GHz.
>
> If the SWR meter is sensitive enough, could I get at least ballpark
> SWR values using the 8640B as a source, running the signal through
> the SWR meter to the antenna? Or am I way off in left field?

Mike-

You have to try it to find out.

One problem is that your SWR meter's diode output is non-linear for very low voltages, resulting in SWR being higher than indicated for low values of SWR. You may be able to get around this with a hand-calibrated dial on the meter, or a calibration correction chart.

Fred
K4DII

```
From -6598872970304880435
X-Google-Thread: fc2a5,492bf471860f4186
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!t46g2000cwa.googlegroups.com!not-for-mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: No Code Required Issue
Date: 18 Dec 2006 12:02:33 -0800
Organization: http://groups.google.com
Lines: 22
Message-ID: <1166472153.136644.236380@t46g2000cwa.googlegroups.com>
References: <no.spam-D502CD.10530317122006@news.verizon.net>
   <1obbo25f3r3oh03qsuinki0hsdprmqluq4@4ax.com>
NNTP-Posting-Host: 66.19.117.44
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166472159 24346 127.0.0.1 (18 Dec 2006 20:02:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 18 Dec 2006 20:02:39 +0000 (UTC)
In-Reply-To: <1obbo25f3r3oh03qsuinki0hsdprmqluq4@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98; DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: t46g2000cwa.googlegroups.com; posting-host=66.19.117.44;
```

```
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:8301


Bill Turner wrote:
> Please folks, do not reply to these off topic posts.
>
> If these idiots never get any replies, they will eventually give up
> and go away.
>
> Thanks,
>
> Bill, W6WRT

Andy writes:
  Does that include the reply which is presented above ?  :>)))))

  No matter.  All these idiots, including myself, and you, are
having fun and we post here because none of us, including
myself, and you, have anything more important in our lives
to do....

                      73s
                                  Andy W4OAH




From 4767703036878858689
X-Google-Thread: fc2a5,e00f88b77deda7b2
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l12g2000cwl.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR and resonance measurements without an MFJ269 or equiv.
Date: 18 Dec 2006 12:04:16 -0800
Organization: http://groups.google.com
Lines: 17
Message-ID: <1166472256.042946.150970@l12g2000cwl.googlegroups.com>
References: <em6at1$f9i$1@puck.litech.org>
NNTP-Posting-Host: 66.19.117.44
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166472262 24546 127.0.0.1 (18 Dec 2006 20:04:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 18 Dec 2006 20:04:22 +0000 (UTC)
In-Reply-To: <em6at1$f9i$1@puck.litech.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l12g2000cwl.googlegroups.com; posting-host=66.19.117.44;
```

posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:8302

Mike Andrews wrote:
> Some friends and I have been looking into making antennas for 70 cm.
> and higher frequencies, but we don't have an MFJ-269; my MFJ-259 tops
> out at 175 MHz. I _do_, however, have an SWR meter that supposedly
> works up to 500 MHz(and maybe higher), and an HP 8640B that is good
> to about 1.2 GHz.
>
> If the SWR meter is sensitive enough, could I get at least ballpark
> SWR values using the 8640B as a source, running the signal through
> the SWR meter to the antenna? Or am I way off in left field?
>
> --
> Mike Andrews, W5EGO
> mikea@mikea.ath.cx
> Tired old sysadmin

From -862322620932478273
X-Google-Thread: fc2a5,1f2729639325e0ee
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!
newshosting.com!198.186.194.250.MISMATCH!transit3.readnews.com!news-
out.readnews.com!panix!bloom-beacon.mit.edu!newsswitch.lcs.mit.edu!
nntp.TheWorld.com!not-for-mail
From: jhallen@TheWorld.com (Joseph H Allen)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: impedance/noise match
Date: Mon, 18 Dec 2006 20:13:25 +0000 (UTC)
Organization: The World : www.TheWorld.com : Since 1989
Lines: 28
Message-ID: <em6sp5$omd$1@pcls6.std.com>
References: <elugke$b8u$1@pcls4.std.com>
<1166415208.792559.265390@l12g2000cwl.googlegroups.com>
NNTP-Posting-Host: shell01.theworld.com
X-Trace: pcls6.std.com 1166472805 25293 192.74.137.71 (18 Dec 2006 20:13:25 GMT)
X-Complaints-To: abuse@TheWorld.com
NNTP-Posting-Date: Mon, 18 Dec 2006 20:13:25 +0000 (UTC)
X-Newsreader: trn 4.0-test72 (19 April 1999)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8303

In article <1166415208.792559.265390@l12g2000cwl.googlegroups.com>,
K7ITM <k7itm@msn.com> wrote:

>Finally, can you think of a way to alter the amplifier's input
>impedance in a way that does not degrade noise, so that you come closer
>to an impedance match while maintaining a match for optimal noise?

Negative feedback increased input impedance. It looks like lossless negative feedback will do this without also increasing the noise. Perhaps use this to make the input impedance equal the noise-opt impedance- then you can match the two together to the source (using a transformer or a tuned circuit).

Here is a nice reference:

http://rfdesign.com/mag/radio_unique_inductive_feedback/

The lossless feedback can be as simple as an inductor in the emitter or source lead.

I've found lots of other references (mostly for-pay IEEE papers), it looks like stability can be a big issue- no big surprise in a feedback network.

```
--
/*  jhallen@world.std.com AB1GO */                        /* Joseph H. Allen */
int a[1817];main(z,p,q,r){for(p=80;q+p-80;p-=2*a[p])for(z=9;z--;)q=3&(r=time(0)
+r*57)/7,q=q?q-1?q-2?1-p%79?-1:0:p%79-77?1:0:p<1659?79:0:p>158?-79:0,q?!a[p+q*2
]?a[p+=a[p+=q]=q]=q:0:0;for(;q++-1817;)printf(q%79?"%c":"%c\n"," #"[!a[q-1]]);}
```

From 1744641521248693731
X-Google-Thread: fc2a5,e00f88b77deda7b2
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!news.glorb.com!news.mv.net!nntp.TheWorld.com!not-for-mail
From: jhallen@TheWorld.com (Joseph H Allen)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR and resonance measurements without an MFJ269 or equiv.
Date: Mon, 18 Dec 2006 20:19:01 +0000 (UTC)
Organization: The World : www.TheWorld.com : Since 1989
Lines: 37
Message-ID: <em6t3l$s3$1@pcls4.std.com>
References: <em6at1$f9i$1@puck.litech.org>
<fmmck-504DBE.15024218122006@nntp.aioe.org>
NNTP-Posting-Host: shell01.theworld.com
X-Trace: pcls4.std.com 1166473141 899 192.74.137.71 (18 Dec 2006 20:19:01 GMT)
X-Complaints-To: abuse@TheWorld.com
NNTP-Posting-Date: Mon, 18 Dec 2006 20:19:01 +0000 (UTC)
X-Newsreader: trn 4.0-test72 (19 April 1999)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8304

In article <fmmck-504DBE.15024218122006@nntp.aioe.org>,
Fred McKenzie <fmmck@aol.com> wrote:

>In article <em6at1$f9i$1@puck.litech.org>,
> "Mike Andrews" <mikea@mikea.ath.cx> wrote:
>
>> Some friends and I have been looking into making antennas for 70 cm.
>> and higher frequencies, but we don't have an MFJ-269; my MFJ-259 tops

>> out at 175 MHz. I _do_, however, have an SWR meter that supposedly
>> works up to 500 MHz(and maybe higher), and an HP 8640B that is good
>> to about 1.2 GHz.
>>
>> If the SWR meter is sensitive enough, could I get at least ballpark
>> SWR values using the 8640B as a source, running the signal through
>> the SWR meter to the antenna? Or am I way off in left field?
>
>Mike-
>
>You have to try it to find out.
>
>One problem is that your SWR meter's diode output is non-linear for very
>low voltages, resulting in SWR being higher than indicated for low
>values of SWR. You may be able to get around this with a
>hand-calibrated dial on the meter, or a calibration correction chart.
>
>Fred
>K4DII

Analog devices makes RF-log amp/detector chips which are good to microwave
frequencies (basically RF in, 10mv per dBm out, from -80dBm to 0dBm).
Replace the SWR meter's detector with one of these.

--
/* jhallen@world.std.com AB1GO */   /* Joseph H. Allen */

```
int a[1817];main(z,p,q,r){for(p=80;q+p-80;p-=2*a[p])for(z=9;z--;)q=3&(r=time(0)
+r*57)/7,q=q?q-1?q-2?1-p%79?-1:0:p%79-77?1:0:p<1659?79:0:p>158?-79:0,q?!a[p+q*2
]?a[p+=a[p+=q]=q]=q:0:0;for(;q++-1817;)printf(q%79?"%c":"%c\n"," #"[!a[q-1]]);}
```

From -7226941106246515642
X-Google-Thread: fc2a5,1f2729639325e0ee
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l12g2000cwl.googlegroups.com!not-for-mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: impedance/noise match
Date: 18 Dec 2006 12:57:16 -0800
Organization: http://groups.google.com
Lines: 36
Message-ID: <1166475435.869541.20790@l12g2000cwl.googlegroups.com>
References: <elugke$b8u$1@pcls4.std.com>
   <1166415208.792559.265390@l12g2000cwl.googlegroups.com>
   <em6sp5$omd$1@pcls6.std.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166475441 8772 127.0.0.1 (18 Dec 2006 20:57:21 GMT)
X-Complaints-To: groups-abuse@google.com

NNTP-Posting-Date: Mon, 18 Dec 2006 20:57:21 +0000 (UTC)
In-Reply-To: <em6sp5$omd$1@pcls6.std.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.8)
Gecko/20061025 Firefox/1.5.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l12g2000cwl.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:8305

Joseph H Allen wrote:
> In article <1166415208.792559.265390@l12g2000cwl.googlegroups.com>,
> K7ITM <k7itm@msn.com> wrote:
>
> >Finally, can you think of a way to alter the amplifier's input
> >impedance in a way that does not degrade noise, so that you come closer
> >to an impedance match while maintaining a match for optimal noise?
>
> Negative feedback increased input impedance. It looks like lossless
> negative feedback will do this without also increasing the noise. Perhaps
> use this to make the input impedance equal the noise-opt impedance- then you
> can match the two together to the source (using a transformer or a tuned
> circuit).
...

Right. Well, actually, you can use negative feedback to either increase or decrease the input impedance, and to either increase or decrease the output impedance. Negative feedback applied as a current into a summing junction (as in an inverting op amp circuit) decreases the input impedance. Negative feedback applied as a voltage in series with the input signal (as in a non-inverting op amp circuit, or by using a source/emitter impedance) increases the input impedance. Feedback derived from the output voltage decreases the output impedance (tries to hold the output voltage constant, for a constant input signal). Feedback derived from the output current increases the output impedance (tries to hold the output current constant, for a constant input signal).

Just as you say, though, feedback can be difficult to apply at RF, and especially so at the very high frequencies where noise figure is typically the most critical.

Cheers,
Tom

From -3294415516032696144
X-Google-Thread: fc2a5,e00f88b77deda7b2
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!n67g2000cwd.googlegroups.com!not-for-

```
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR and resonance measurements without an MFJ269 or equiv.
Date: 18 Dec 2006 15:58:33 -0800
Organization: http://groups.google.com
Lines: 22
Message-ID: <1166486313.728502.48640@n67g2000cwd.googlegroups.com>
References: <em6at1$f9i$1@puck.litech.org>
   <fmmck-504DBE.15024218122006@nntp.aioe.org>
   <em6t3l$s3$1@pcls4.std.com>
NNTP-Posting-Host: 66.19.113.81
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166486319 27592 127.0.0.1 (18 Dec 2006 23:58:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 18 Dec 2006 23:58:39 +0000 (UTC)
In-Reply-To: <em6t3l$s3$1@pcls4.std.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n67g2000cwd.googlegroups.com; posting-host=66.19.113.81;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:8306
```

Joseph H Allen wrote:>

> Analog devices makes RF-log amp/detector chips which are good to microwave
> frequencies (basically RF in, 10mv per dBm out, from -80dBm to 0dBm).
> Replace the SWR meter's detector with one of these.
>
> --

Andy writes:

I built one of those up -- the version that goes to 500 Mhz -- and I use it with a Mini-Ckts Fwd/Ref bridge and a Measurements 202, which only puts out around 0 dbm.   It works like a charm. I use the 202 to get reference measurements and use that system to tune antennae and transmission lines.

It's a very very sensitive RF power meter and, while the absolute accuracy may not be the best, it's very good for using low power signal

sources and taking relative measurement.

Andy W4OAH

```
From 3876823861192549862
X-Google-Thread: fc2a5,250b78003b2e11a4
X-Google-Attributes: gidfc2a5,public
```

```
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 18 Dec 2006 18:45:01 -0600
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Bephh.212$pr5.108@trnddc01>
Subject: Re: Power Supply Meters
Date: Mon, 18 Dec 2006 18:45:00 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <KZudnUInw6SQqxrYnZ2dnUVZ_rylnZ2d@comcast.com>
Lines: 34
NNTP-Posting-Host: 67.176.141.93
X-Trace: sv3-
nfdrAtZFpK5oPKmMp1OultW4UuxST0TnHkcce7xl1gRqiqXIYJYopsWZ8twnhOnUOCICnd/1YMq/6VD!
6Wi6VbLJaVSAwPCO52IcSObsqh+0AxBR6qqE/tXCUPyhaM+IPv9+qmqisXdEmp7zf5mmtq+q7AYn!uZug/
HYtaQ9xlUDbSYQ=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8307
```

"west" <restccq2@verizon.net> wrote in message
news:Bephh.212$pr5.108@trnddc01...

```
>I have a 40 amp, 13.8v supply and would like to add a voltage (0-15v) meter
> and an amp (0-50amp) meter. The meters look frail and I can't imagine
> running all that current through those flimsy connectors and tiny meter
> coil. I have no paperwork on the meters and was wondering if I need a
> shunt
> resistor or something to take all that current. Any ideas? Thank you.
>
> Cordially,
> west
>
```

Regulated Linear Power Supply Construction
What's inside your Astron�?
David Metz, WA0AUQ

I have often referenced David Metz's (WA0AUQ) article on Linear Power Supply Construction. David wrote this article for the SouthEast Iowa Technical Society (SEITS) newsletter in November 1996. Sadly, SEITS and its web site are no longer on the Internet.

Kevin Custer, K3KKC has agreed to add this article to the Astron folder in the Repeater Builders Technical Information Page (RBTIP). Hobbyists can

again access this informational and educational article on linear power supply construction (Adobe Acrobat format) here:
http://www.repeater-builder.com/astron/seits-astron-article.pdf

w9gb

BTW Meter labeling is also quite easy

From 1935325822150099974
X-Google-Thread: fc2a5,250b78003b2e11a4
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 18 Dec 2006 19:39:09 -0600
Date: Tue, 19 Dec 2006 02:38:52 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla Thunderbird 1.0.2 (X11/20050322)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Power Supply Meters
References: <Bephh.212$pr5.108@trnddc01>
In-Reply-To: <Bephh.212$pr5.108@trnddc01>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Mt-dnVeX1aMj3xrYnZ2dnUVZ8tChnZ2d@pipex.net>
Lines: 66
NNTP-Posting-Host: 71.107.26.158
X-Trace: sv3-islUyysKKR6RrO6Rz4JWRNclk5wOfIHcixPh2lKbygK7aN9j/wNLbLz0OJQE/
mKDPWfp2CpVpgM2ZRu!
oZ6CtDLvtnjDBwnDZj0EmbA5Kh1r3N1ieg9Y4Pm9gL3JuVFgmi+Kgv5jogjc1YM9+0v/TkJgEJQ4!
Pth26YAsyC2DDmt+msn5efNJJw==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8308

> I have a 40 amp, 13.8v supply and would like to add a voltage (0-15v) meter
> and an amp (0-50amp) meter. The meters look frail and I can't imagine
> running all that current through those flimsy connectors and tiny meter
> coil. I have no paperwork on the meters and was wondering if I need a shunt
> resistor or something to take all that current. Any ideas? Thank you.

===

The measurements derived from PSU fitted operational meters do not need to be very accurate.

To make the correct series resistor for the voltmeter and the shunt for the current meter you need a digital volt/mA meter ,preferably with a 10 Ampere- DC range included.

For both measurements a moving coil meter in the 0.1 -1 mA range will be fine . For the current meter a say 10 mA full scale meter will be OK.

Try to find moving coil meters with a 0-15/0-20 and 0-50 scale.

You probably will find these at a fleamarket/junksale.

To find the respective full scale current of the respective (mystery) meters ,take a 1.5 V battery and put the DVM and the meter in series with a 22 KOhm linear potmeter , adjust potm. until mystery meter reads full scale and read current on DVM.

Remove DVM from circuit and adjust current again to full scale.

Measure voltage (probably in mV range) across meter.

You now know everything of meter you need incl the meter resistance.

Voltmeter: Calculate series resistor (probably odd value) and use a fixed resistor or resistors or 1 resistor in series with a suitable (10 turn) trim pot.

Apply say 10 Volts across system (measured with DVM) and check meter deflection . If not to your satisfaction ,change fixed resistor or in case of using a trim pot ,adjust the trimpot.

Ampere meter:

Take approx 1 metre of thick copper wire capable of carrying 50 Ampere , meaning that at that current its temperature does not get noticeably above ambient .

Make a current of say 5 Amperes to flow through the wire .

With the DVM determine the length of the wire over which a voltage developes which is 20-30 % (not critical) higher than 10% of the full scale voltage across the designated Ampere meter ,assuming its scale is 0-50.

You can now reduce the overall length of the wire shunt accordingly.

Connect the designated meter in series with a (preferably 10 turn) trim pot ,with a value of the same order of magnitude as the meter resistance, across the shunt and adjust the trimpot such that with a current of 5 Amperes (as measured by the DVM) the now Ampere meter reads 10% of its scale.

Increase the current to say 20 Amperes (as shown by the DVM or any other Ampere meter) The now Ampere meter should read 40% of scale.

I have applied the above with 'junk box' meters to measure voltage and current from 2 solar panels (0-10 A) and a wind generator (0-20 A).

Voltmeter reads 0-15V.

The method described is adequate for 'operational' meters . Their uncertainty (accuracy)is better than 3%.

If the meters you have don't have the wanted scale ,you can change the scale by (carefully)glueing a paper scale on top of the existing one . There are a number of free meter scale programs available from the www

Frank   KN6WH / GM0CSZ

```
From -237301944486090372
X-Google-Thread: fc2a5,e00f88b77deda7b2
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!90335db4!not-for-mail
From: John Ferrell <johnferrell@sprintmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SWR and resonance measurements without an MFJ269 or equiv.
Message-ID: <qtkeo2pna6at50vnc9to3dfkn7gqv5im9b@4ax.com>
References: <em6at1$f9i$1@puck.litech.org>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 16
Date: Tue, 19 Dec 2006 02:53:42 GMT
NNTP-Posting-Host: 24.148.146.7
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1166496822 24.148.146.7 (Mon, 18 Dec
2006 18:53:42 PST)
NNTP-Posting-Date: Mon, 18 Dec 2006 18:53:42 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8309
```

On Mon, 18 Dec 2006 15:08:17 +0000 (UTC), "Mike Andrews"
<mikea@mikea.ath.cx> wrote:

>Some friends and I have been looking into making antennas for 70 cm.
>and higher frequencies, but we don't have an MFJ-269; my MFJ-259 tops
>out at 175 MHz. I _do_, however, have an SWR meter that supposedly
>works up to 500 MHz(and maybe higher), and an HP 8640B that is good
>to about 1.2 GHz.
>
>If the SWR meter is sensitive enough, could I get at least ballpark
>SWR values using the 8640B as a source, running the signal through
>the SWR meter to the antenna? Or am I way off in left field?

You can achieve a lot on 70cm with an HT and a simple field strength meter. Think matching stubs & shorting bars...
John Ferrell W8CCW

From 1018393748299068147
X-Google-Thread: fc2a5,3a499cfdd661080e,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!88314b3d!not-for-mail
Message-ID: <45875A71.5EA663D5@edge.net>
From: "Bob G. Mahrenholz" <bobm@edge.net>
X-Mailer: Mozilla 4.76 [en]C-CCK-MCD NSCPCD476 (Win98; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Need Toko RWRS-T1018Z 180uH 10K coils
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 11
Date: Tue, 19 Dec 2006 03:21:34 GMT
NNTP-Posting-Host: 4.152.159.176
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1166498494 4.152.159.176 (Mon, 18 Dec 2006 19:21:34 PST)
NNTP-Posting-Date: Mon, 18 Dec 2006 19:21:34 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8310

Hi:
Does anyone know where I can get two or preferably four Toko RWRS-T1018Z coils? These are 180uH adjustable coils in a 10K shield can. I want to build the BC band preselector by Joe Carr in the April 1995 issue of Popular Electronics.

Thanks,
Bob
K4QQK
bobmatedgedotnet

From 2107440837551136722
X-Google-Thread: fc2a5,3a499cfdd661080e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 18 Dec 2006 21:35:03 -0600
Date: Tue, 19 Dec 2006 04:34:41 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla Thunderbird 1.0.2 (X11/20050322)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Re: Need Toko RWRS-T1018Z 180uH 10K coils
References: <45875A71.5EA663D5@edge.net>
In-Reply-To: <45875A71.5EA663D5@edge.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <R4-dna8T9uR6wBrYnZ2dnUVZ8tK3nZ2d@pipex.net>
Lines: 9
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Ekp5zIhc14JGjp6E1d00XYVnonTmKtILmZlIwSDmx3KVH81pNoSRYircaViTqGwOh0svgze0VGbh!
8KRl8d1tMWUKieB3qTON1f6R2Q==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8311

> Does anyone know where I can get two or preferably four Toko RWRS-T1018Z
> coils? These are 180uH adjustable coils in a 10K shield can. I want to
> build the BC band preselector by Joe Carr in the April 1995 issue of
> Popular Electronics.
===============================================
Google ------> DigiKey.com


Frank       KN6WH / GM0CSZ


From 2698221856184561299
X-Google-Thread: fc2a5,a1e7d9eaefd32d34,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news.litech.org!not-for-
mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: SA605 or SA615 source
Date: Tue, 19 Dec 2006 03:37:49 +0000 (UTC)
Organization: Me?
Lines: 8
Sender: mikea@mikea.ath.cx
Message-ID: <em7mqd$mcg$3@puck.litech.org>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1166499469 22928 68.15.203.64 (19 Dec 2006 03:37:49 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Tue, 19 Dec 2006 03:37:49 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:8312

Anyone got a source for SA605 or SA615? I want to build the 1-chip
receiver that Steve Hageman describes in EDN Access of 25 September
1997, but am having problems finding the chips. Maybe I'm looking
past them.

--
Fu^WForget Turing, USENET wouldn't pass a roadside DWI test
-- Chris Hacking, in the Monastery

From -7503690725499368038
X-Google-Thread: fc2a5,a1e7d9eaefd32d34
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 18 Dec 2006 22:01:04 -0600
Date: Mon, 18 Dec 2006 20:01:05 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SA605 or SA615 source
References: <em7mqd$mcg$3@puck.litech.org>
In-Reply-To: <em7mqd$mcg$3@puck.litech.org>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <4-OdnVsClbqc-RrYnZ2dnUVZ_urinZ2d@web-ster.com>
Lines: 20
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X-Trace: sv3-rbukE0Pd/
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S69qGue7S246vYCHu6uphxb42enqkd/QDkRYQ2akHnQIV9BhzhoK936y7rKwEsGkHMQ1njePqRWN!
Hy+NjDhgmBDV3O3Z
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8313

Mike Andrews wrote:
> Anyone got a source for SA605 or SA615? I want to build the 1-chip
> receiver that Steve Hageman describes in EDN Access of 25 September
> 1997, but am having problems finding the chips. Maybe I'm looking
> past them.
>

Nominally these are Phillips parts (now NXE or whatever). They use the

'SA' 'NE' etc., for indicating temperature ranges -- I know I've had trouble finding '602s with one prefix, and no problem with the other.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From 3160830997449054931
X-Google-Thread: fc2a5,ee2507c2ec9d294d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 18 Dec 2006 22:06:32 -0600
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: A different view of the code test option
From: Mike Coslo <mcoslo@comcast.net>
References: <1165841619.210023.187380@j44g2000cwa.googlegroups.com>
<rdsqn2hdq34l89hksaj8c8nk11orkq7i9h@4ax.com>
Organization: Your Company
Message-ID: <Xns989DEB15BC4EAmcoslocomcastnet@216.196.97.136>
User-Agent: Xnews/5.04.25
Date: Mon, 18 Dec 2006 22:06:32 -0600
Lines: 16
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X-Trace: sv3-
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UuFFbemJxxXEPWwDFN7AQIulvJfSXQmVXDHfzHAa812Z5KY584tQoke0h0y4LZPdkGL06sbQaQri!
BPV8drb2ck88Lw==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8314
```

Bill Turner <noway@nowhow.com> wrote in
news:rdsqn2hdq34l89hksaj8c8nk11orkq7i9h@4ax.com:

> Please folks, do not reply to these off topic posts.
>
> If these idiots never get any replies, they will eventually give up
> and go away.

Good heavens, Bill! I appreciate the sentiment, but you do realize that you've become just another disruptive poster on the newsgroups. I don't see the jerks, but I do see your posts to them. Someone is always trying to "Clean up Dodge City", and they always fail. Give it a break, and excercise your filters!

- 73 de Mike KB3EIA -

```
From -4551619981731957163
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j44g2000cwa.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave
Date: 12 Dec 2006 06:09:33 -0800
Organization: http://groups.google.com
Lines: 33
Message-ID: <1165932573.681858.98750@j44g2000cwa.googlegroups.com>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
   <1165840350.029509.309650@79g2000cws.googlegroups.com>
   <1165848660.983456.12930@j44g2000cwa.googlegroups.com>
   <SAyfh.464203$1T2.143592@pd7urf2no>
NNTP-Posting-Host: 66.19.117.109
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165932581 32646 127.0.0.1 (12 Dec 2006 14:09:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 12 Dec 2006 14:09:41 +0000 (UTC)
In-Reply-To: <SAyfh.464203$1T2.143592@pd7urf2no>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j44g2000cwa.googlegroups.com; posting-host=66.19.117.109;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:8214
```

Yukio YANO wrote:> >

> TUBES!! Tubes? Off of Battery, 6 Volt?, Vibrator? Inverter? 12 Volt B+
> tubes ? Not since the 1950s ?
> Am I reading too much between the lines ?
>
> Yukio YANO, VE5YS
>
> Except for the audio output stage, we can now run a radio on the power
> used to to light the Dial on a Tubes Era Radio !

Andy writes:
Well, perhaps the OP is a "retro" hobbyist. I have met a few,
especially
youngsters who weren't born till after the ua709 was developed. Sort
of a
historical fascination.... Personally, I have had the hell shocked out
of me
enough to appreciate the privilege of using 14 volts or less (grin)...

Around here, you can usually pick up a transistorized car radio
for
about a dollar at garage sales and resale barns. I have yet to buy one

that didn't work. If you come to Eureka, Texas, I'll give you one for
free......

Andy W4OAH in Eureka, Texas

(If you've ever taken a beer to a job interview, you might live
in Eureka, Texas)

```
From 7120113505492442506
X-Google-Thread: fc2a5,de4ea56a49539b4,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 12 Dec 2006 10:54:54 -0600
From: Danny Richardson <n_group@k6mhe.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Command Technologies HF-1250 Documentation?
Date: Tue, 12 Dec 2006 08:54:53 -0800
Message-ID: <7lntn25ft8hn2p1gpitjmgdvtrq0t5kjse@4ax.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 6
NNTP-Posting-Host: 68.64.59.124
X-Trace: sv3-SQcEctVZAC/dz7XbVfpggFq/
zIi6SeX6kzHqzNtQXr3NcDfv1o7JoZ69SNzCcYArM0Bo78IQqcLWu4i!X4Y+ZO8OCuRvA/
MX7NC5ZWaKx+HNs3Q2dl7W88mtVxUr+Sqm+CzJfPnpCYJGN8r9FJ3/ZHbf65fw!
5f2W1HtPUB+4aPXM+xnX
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

```
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8215

Does anyone have documentation for a Command Technologies HF-1250
amplifier? I've searching the web with no luck.

73
Danny, K6MHE




From 2303246290633209272
X-Google-Thread: fcc6e,9770b54fa0752b0f
X-Google-Thread: fc2a5,8dffcadd3cfb0f1
X-Google-Thread: 107ada,8dffcadd3cfb0f1
X-Google-Thread: 10bf43,8dffcadd3cfb0f1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.maxwell.syr.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.ra
dio.amateur.policy
Subject: Re: Guide Lines for this news group
Date: Tue, 12 Dec 2006 12:49:48 -0500
Message-ID: <ksqtn2phj8gdp6gjp7c66saohp9hblmk3c@4ax.com>
References: <pve3n21b5p2no0et7ucgrfihn9iccen58g@4ax.com>
<tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com>
<1Zoch.6172$tM1.5232@newsread1.news.pas.earthlink.net>
<1165116776.575952.37510@16g2000cwy.googlegroups.com>
<3r2eh.8183$ql2.2149@newsread3.news.pas.earthlink.net>
<pighn2hfsl332bn3rt0l7hdat6n569cq1j@4ax.com>
<1165849091.300946.122660@n67g2000cwd.googlegroups.com>
<116rn2hktrg8jqafbmrmbra120sv9ei4vi@4ax.com>
<1165932185.379791.290250@n67g2000cwd.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 127
NNTP-Posting-Date: 12 Dec 2006 16:55:20 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:22960
rec.radio.amateur.homebrew:8216 rec.radio.amateur.misc:27104
rec.radio.amateur.policy:57641

On 12 Dec 2006 06:03:05 -0800, "Not Cocksucker Lloyd"
<not_time_turd_lloyd@yahoo.com> wrote:

>
>Mark@kb9rqz.aprs wrote:
>> On 11 Dec 2006 06:58:11 -0800, "Not Cocksucker Lloyd"
>> <not_time_turd_lloyd@yahoo.com> wrote:
>>
>> >
>> >Mark@kb9rqz.aprs wrote:
>> >> On Fri, 08 Dec 2006 00:35:11 GMT, Slow Code <my.mail@no.spam> wrote:
>> >>
>> >> >hot-ham-and-cheese@hotmail.com wrote in
>> >> >news:1165116776.575952.37510@16g2000cwy.googlegroups.com:
>> >> >
>> >> >>
>> >> >> Slow Code wrote:
>> >> >>> Danny Richardson <n_group@k6mhe.com> wrote in
>> >> >>> news:tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com:
>> >> >>>
>> >> >>> > On Sat, 02 Dec 2006 09:48:44 -0800, Bill Turner <noway@nowhow.com>
>> >> >>> > wrote:
>> >> >>> >
>> >> >>> >>ORIGINAL MESSAGE:
>> >> >>> >>
>> >> >>> >>On Sat, 2 Dec 2006 08:19:07 -0800, "Caveat Lector" <CL@nowhere.com>
>> >> >>> >> wrote:
>> >> >>> >>
>> >> >>> >>>Maybe this will help(a little) to get rid of the off topic posts
>> >> >>> >>>
>> >> >>> >>>For what this News Group is about and applicable guide lines see
>> >> >>> >>>URL:
>> >> >>> >>>
>> >> >>> >>>http://www.faqs.org/faqs/radio/personal-intro/
>> >> >>> >>>
>> >> >>> >>>Thanks for reading
>> >> >>> >>>73 CL
>> >> >>> >>>
>> >> >>> >>
>> >> >>> >>------------ REPLY FOLLOWS ------------
>> >> >>> >>
>> >> >>> >>Dream on, CL. These guys already know that and they don't care. It's
>> >> >>> >>been that way forever. It's the Curse of Usenet.
>> >> >>> >>
>> >> >>> >>Bill, W6WRT
>> >> >>> >
>> >> >>> > After years of resisting I'm ready for a moderated antenna group.
>> >> >>> > I've used my kill filter more times in the last three months than
>> >> >>> > I've ever done in the previous ten years.
>> >> >>> >
>> >> >>> > I, for one, am sick and tired of the foul-mouth off topic postings
>> >> >>> > and, if that requires a moderated group to get rid of them it would
>> >> >>> > be a very small price to pay.
>> >> >>> >
>> >> >>> > Danny,
>> >> >>>
>> >> >>>
>> >> >>> I know what you mean Dan.
>> >> >>
```

>> >> >> No you don't. You're one of the foul-mouthed off-topic posters that
>> >> >> Dan is complaining about.
>> >> >>
>> >> >>> With the anticipation that ham radio is going
>> >> >>> to get dumbed down again real soon, the dumb-it-downers
>> >> >>
>> >> >> It got "dumbed-down" when a license was issued to you.
>> >> >>
>> >> >> BTW, what is your call?
>> >> >
>> >> >
>> >> >Don't worry about my callsign.
>> >>
>> >> why not we think you don't have one
>> >
>> >Just like "an old friend" is yours?
>>
>> never said it was
>
>But you claim to post under your own name.
no woger I claim to post under my name OR call

you realy need to learn english
>
>> my call is kb9rqz
>
>That's still not a name, stupid.

never said it a name
>
>>
>> >
>> >> > Just keep practicing CW.
>> >>
>> >> why? BB fuinds it usles to what he interested in as do I
>> >
>> >Making excuses for your laziness, Marqueer?
>>
>> stating facts woger
>
>When are you going to start, Marqueer?
>
>> >
>> >> > No matter how fast
>> >> >and good you already are at it you can always improve your skills.
>> >>
>> >> so what?
>> >
>> >So you want them to just give you the General license instead of
>> >working for it.
>>
>> no I don't I want a test that relates to the prevledges grranted
>

```
>So you admit to being a lazy fat fuck who just wants their HF
>privileges handed to them instead of working for it.
>
>> >
>> >> i suspect I am the best Swordmans in RRAP so what
>> >
>> >BWHAHAHAHAHA No, Markie, you are a gay blade, not the sharp blade.
>>
>> well woger if you ever decided to comit trespassing and get close
>> enough you willfind out
>
>Why,  Dishonorably discharged felons like you can't own weapons. All
>you will do is sit on your fat queer ass and whine, like you do on the
>newsgroups.
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -2872153794134974147
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!80g2000cwy.googlegroups.com!not-for-
mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave
Date: 12 Dec 2006 09:54:50 -0800
Organization: http://groups.google.com
Lines: 17
Message-ID: <1165946090.272417.284490@80g2000cwy.googlegroups.com>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
   <1165840350.029509.309650@79g2000cws.googlegroups.com>
   <1165848660.983456.12930@j44g2000cwa.googlegroups.com>
   <SAyfh.464203$1T2.143592@pd7urf2no>
NNTP-Posting-Host: 207.69.137.7
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165946096 14427 127.0.0.1 (12 Dec 2006 17:54:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 12 Dec 2006 17:54:56 +0000 (UTC)
In-Reply-To: <SAyfh.464203$1T2.143592@pd7urf2no>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 80g2000cwy.googlegroups.com; posting-host=207.69.137.7;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8217
```

Yukio YANO wrote:
> TUBES!! Tubes? Off of Battery, 6 Volt?, Vibrator? Inverter? 12 Volt B+
> tubes ? Not since the 1950s ?
> Am I reading too much between the lines ?

Yes, tubes. I have some that were pulled from circa 1960's television sets, and I thought I'd use them, hoping that they'd be EMP resistant. Been on kind of a survivalist kick, lately. Doesn't mean I'd be opposed to using more modern equipment, though. One thing I saw that I liked in one of the books I purchased was a loop antenna that uses transistors to amplify the signal. Thought it might be easier than stringing up a lot of wire. ;-)

Ralph Glatt

```
From 5537783269913314028
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j72g2000cwa.googlegroups.com!not-for-
mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave
Date: 12 Dec 2006 10:01:48 -0800
Organization: http://groups.google.com
Lines: 28
Message-ID: <1165946508.254413.302020@j72g2000cwa.googlegroups.com>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
   <1165840350.029509.309650@79g2000cws.googlegroups.com>
   <Xns98967ABFDhatchdavidticom@157.170.133.60>
NNTP-Posting-Host: 207.69.137.7
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165946513 15546 127.0.0.1 (12 Dec 2006 18:01:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 12 Dec 2006 18:01:53 +0000 (UTC)
In-Reply-To: <Xns98967ABFDhatchdavidticom@157.170.133.60>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j72g2000cwa.googlegroups.com; posting-host=207.69.137.7;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8218
```

David wrote:
> "AndyS" <andysharpe@juno.com> wrote in <1165840350.029509.309650@

```
> 79g2000cws.googlegroups.com>:
>
> >    In my opinion, the easiest, most non-destructive way to do this
> >is to add a converter, using the AM radio as a tuneable IF for
> >AM transmissions.
>
> Agreed.
>
> >And you can still listen to Rush Limbaugh by switching off the
> >converter....
>
> Or when you switch it on...
>
> http://www.techlib.com/files/rushconv.pdf
>
> Pick your 1MHz band, and tune away. You'll need to tweek a bit if
> you want to be very far from 15 MHz.

I'm not that terribly fond of Rush, but I think I might be able to
adapt this to tune in other frequencies, so it should come in handy.
Thanks!


Ralph Glatt




From -4460097337926872392
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.litech.org!not-for-
mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave
Date: Tue, 12 Dec 2006 18:07:03 +0000 (UTC)
Organization: Me?
Lines: 23
Sender: mikea@mikea.ath.cx
Message-ID: <elmr47$l1i$6@puck.litech.org>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
<1165840350.029509.309650@79g2000cws.googlegroups.com>
<1165848660.983456.12930@j44g2000cwa.googlegroups.com>
<SAyfh.464203$1T2.143592@pd7urf2no>
<1165946090.272417.284490@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1165946823 21554 68.15.203.64 (12 Dec 2006 18:07:03 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Tue, 12 Dec 2006 18:07:03 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
```

User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:8219

On 12 Dec 2006 09:54:50 -0800, julian814 <julian814@hotmail.com> wrote in
<1165946090.272417.284490@80g2000cwy.googlegroups.com>:

> Yukio YANO wrote:
>> TUBES!! Tubes? Off of Battery, 6 Volt?, Vibrator? Inverter? 12 Volt B+
>> tubes ? Not since the 1950s ?
>> Am I reading too much between the lines ?

> Yes, tubes. I have some that were pulled from circa 1960's television
> sets, and I thought I'd use them, hoping that they'd be EMP resistant.
> Been on kind of a survivalist kick, lately. Doesn't mean I'd be opposed
> to using more modern equipment, though. One thing I saw that I liked in
> one of the books I purchased was a loop antenna that uses transistors
> to amplify the signal. Thought it might be easier than stringing up a
> lot of wire. ;-)

But the transistors almost certainly will be fried by EMP. If that's
not a concern, then by all means try it -- and share the design and
results with us, please!

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From 2681557121786746009
X-Google-Thread: fc8b1,2eb63556d8d2c41b
X-Google-Thread: fc2a5,2eb63556d8d2c41b
X-Google-Thread: 10bf43,e5c3ae4f3f2394ba
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!logbridge.uoregon.edu!
hammer.uoregon.edu!news.hawaii.edu!jeffreyh
From: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: ARS License Numbers
Followup-To: rec.radio.amateur.policy
Date: 11 Dec 2006 06:24:09 GMT
Organization: University of Hawaii
Lines: 13
Message-ID: <eliti9$n64$1@news.hawaii.edu>
References: <1157245927.503665.253740@m79g2000cwm.googlegroups.com>
<1165230883.655037.78140@n67g2000cwd.googlegroups.com>
<Wq2eh.8176$ql2.2474@newsread3.news.pas.earthlink.net>
<t6ghn2drji894n7u87dgki0t7j891h2c0p@4ax.com>
NNTP-Posting-Host: uhunix2.its.hawaii.edu
X-Trace: news.hawaii.edu 1165818249 23748 128.171.44.7 (11 Dec 2006 06:24:09 GMT)
X-Complaints-To: usenet@hawaii.edu

NNTP-Posting-Date: 11 Dec 2006 06:24:09 GMT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6696
rec.radio.amateur.homebrew:8220 rec.radio.amateur.policy:57657

In article <t6ghn2drji894n7u87dgki0t7j891h2c0p@4ax.com>,
>we do which is why we want to end the dummbing by ending the mode
>welfare that exists in it

And with that, I propose a mandatory test for internet privileges.

No 73 for you,
Jeff KH6O

--
Chief Petty Officer, U.S. Coast Guard, Dept. of Homeland Security
Mathematics Lecturer, University of Hawaii System

From -9075097085722744028
X-Google-Thread: fcc6e,70f039efb3d707bf
X-Google-Thread: fc2a5,70f039efb3d707bf
X-Google-Thread: 107ada,70f039efb3d707bf
X-Google-Thread: 10bf43,436d8a4f092b8069
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!postnews.google.com!
16g2000cwy.googlegroups.com!not-for-mail
From: "KC4UAI" <kc4uai@gmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.ra
dio.amateur.policy
Subject: Re: A QRZ Trivia Question That Smegma Radio May Find Educational
Date: 12 Dec 2006 11:18:10 -0800
Organization: http://groups.google.com
Lines: 27
Message-ID: <1165951090.403715.91360@16g2000cwy.googlegroups.com>
References: <1165392322.781481.219870@j44g2000cwa.googlegroups.com>
<1165422633.729925.259700@79g2000cws.googlegroups.com>
<FzJdh.7332$sf5.980@newsread4.news.pas.earthlink.net>
NNTP-Posting-Host: 71.252.220.109
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1165951098 13270 127.0.0.1 (12 Dec 2006 19:18:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 12 Dec 2006 19:18:18 +0000 (UTC)
In-Reply-To: <FzJdh.7332$sf5.980@newsread4.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 16g2000cwy.googlegroups.com; posting-host=71.252.220.109;
posting-account=knMWMQ0AAACma615_DQioSE9uvOCZgOy

```
Xref: g2news2.google.com rec.radio.amateur.antenna:22966
rec.radio.amateur.homebrew:8221 rec.radio.amateur.misc:27113
rec.radio.amateur.policy:57664


Slow Code wrote:
> "KC4UAI" <kc4uai@gmail.com> wrote in
> news:1165422633.729925.259700@79g2000cws.googlegroups.com:
>
> >
> > I for one don't want to loose my ticket.  Despite what SC says, I
> > worked for that Extra...
> >
> > -= bob =-
>
>
>
> Post restructuring License EXAM
> <Snip>

If that was the test you took it explains a lot.... It sure explains
why you are so fearful of the CBers taking over. You never passed a
valid exam, so you might want to turn in that ticket and try again.
Let me know where you are and we will find you a testing session close.

We still don't have your call there SC.  I'm thinking that you may not
actually have a call and are just jealous of us folks that passed the
tests.. (Grin)

-= KC4UAI =-



From 8375362598221847781
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!73g2000cwn.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave
Date: 12 Dec 2006 15:11:32 -0800
Organization: http://groups.google.com
Lines: 21
Message-ID: <1165965092.159606.83880@73g2000cwn.googlegroups.com>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
   <1165840350.029509.309650@79g2000cws.googlegroups.com>
   <1165848660.983456.12930@j44g2000cwa.googlegroups.com>
   <SAyfh.464203$1T2.143592@pd7urf2no>
   <1165946090.272417.284490@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 66.19.117.91
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165965097 14665 127.0.0.1 (12 Dec 2006 23:11:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 12 Dec 2006 23:11:37 +0000 (UTC)
In-Reply-To: <1165946090.272417.284490@80g2000cwy.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 73g2000cwn.googlegroups.com; posting-host=66.19.117.91;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:8222


julian814 wrote:>
> Yes, tubes. I have some that were pulled from circa 1960's television
> sets, and I thought I'd use them, hoping that they'd be EMP resistant.
> Been on kind of a survivalist kick, lately. Doesn't mean I'd be opposed
> to using more modern equipment, though. One thing I saw that I liked in
> one of the books I purchased was a loop antenna that uses transistors
> to amplify the signal. Thought it might be easier than stringing up a
> lot of wire. ;-)
>
>
> Ralph Glatt

Andy writes:

   If we have an EMP attack,  who will you use the radio to listen to
???


                     Andy    W4OAH




From 1964011762541440652
X-Google-Thread: fc2a5,9d262968912f769f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!73g2000cwn.googlegroups.com!not-for-
mail
From: jgboyles@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Communucation concepts eb104
Date: 12 Dec 2006 15:36:16 -0800
Organization: http://groups.google.com
Lines: 22
Message-ID: <1165966576.926880.169910@73g2000cwn.googlegroups.com>
References: <457e8664$0$9776$afc38c87@news.optusnet.com.au>
NNTP-Posting-Host: 152.163.100.65
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
```

```
X-Trace: posting.google.com 1165966599 18133 127.0.0.1 (12 Dec 2006 23:36:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 12 Dec 2006 23:36:39 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 5.1; .NET
CLR 1.0.3705; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 Turboweb
[rtc-tc021 8.4.1], HTTP/1.1 cache-rtc-ab01.proxy.aol.com[98A36441] (Traffic-
Server/6.1.3 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: 73g2000cwn.googlegroups.com; posting-host=152.163.100.65;
   posting-account=Xsny5QwAAACH3aqqoi-j8SncnYoXKFtQ
Xref: g2news2.google.com rec.radio.amateur.homebrew:8223
```

Newsgroup wrote:

> I am currently in the process of building a eb104 kit. has anyone else built
> one of these kits. What are your thought on this amplifier.

It is not actually a kit. It is the circuit board plus all the components to populate it. To have an actual working Amplifier that you can get on the HF bands you will need: T/R relays, low pass filters for the bands you want to use the Amp plus a means to switch these filters, 50 VDC 20 amp power supply, copper spreaders+heat sink+cooling fans to get rid of the heat, some kind of enclosure with switches, connectors, metering ect..

Optionally, you may want an ALC circuit, and an SWR protection circuit. The MRF150s are about $80 each, I let the smoke out of 8 before I got mine working. I built two eb104s with a combiner for 1200 watts output, but it was a struggle. Essentially you have to come up with your own kit. It takes about a hour to populate the eb104 circuit board. It took weeks to have a working Amp. Good luck.

Gary N4AST

```
From 1897987603073491005
X-Google-Thread: fc2a5,d52243bb6a968e13,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!5f029860!not-for-mail
Reply-To: "William Hightower" <william.hightower@earthlink.net>
From: "William Hightower" <william.hightower@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Test
Lines: 3
Organization: Air Certain
X-Priority: 3
X-MSMail-Priority: Normal
```

```
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Message-ID: <%qTfh.8739$sf5.4850@newsread4.news.pas.earthlink.net>
Date: Wed, 13 Dec 2006 13:42:19 GMT
NNTP-Posting-Host: 69.22.48.238
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1166017339 69.22.48.238 (Wed, 13 Dec
2006 05:42:19 PST)
NNTP-Posting-Date: Wed, 13 Dec 2006 05:42:19 PST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8224

Is this news group down?




From 3905450445668092066
X-Google-Thread: fc2a5,d52243bb6a968e13
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe07.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <%qTfh.8739$sf5.4850@newsread4.news.pas.earthlink.net>
Subject: Re: Test
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <uqUfh.2$8x4.1@newsfe07.lga>
X-Trace:
fjmkffdeidnncplekannfilpcpbbolnmafigldodjfdpnfgmnicfceledepkikoolhlefpnpglhfdcnhkc
ahmogepfcippmgpkklaoondfgkbgiggbapcogkodiocgcjgolpanaadbokpicd
NNTP-Posting-Date: Wed, 13 Dec 2006 07:50:02 MST
Date: Wed, 13 Dec 2006 09:49:59 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8225

I don't think so

..

"William Hightower" <william.hightower@earthlink.net> wrote in message
news:%qTfh.8739$sf5.4850@newsread4.news.pas.earthlink.net...
> Is this news group down?
>
```

```
From -5198814233659301068
X-Google-Thread: fc2a5,d52243bb6a968e13
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news2.google.com!news.maxwell.syr.edu!
news.litech.org!not-for-mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Test
Date: Wed, 13 Dec 2006 15:05:41 +0000 (UTC)
Organization: Me?
Lines: 17
Sender: mikea@mikea.ath.cx
Message-ID: <elp4s5$hhb$7@puck.litech.org>
References: <%qTfh.8739$sf5.4850@newsread4.news.pas.earthlink.net>
<uqUfh.2$8x4.1@newsfe07.lga>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1166022341 17963 68.15.203.64 (13 Dec 2006 15:05:41 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Wed, 13 Dec 2006 15:05:41 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:8226

On Wed, 13 Dec 2006 09:49:59 -0500, xpyttl <xpyttl_NOSPAM@earthling.net> wrote in
<uqUfh.2$8x4.1@newsfe07.lga>:
> I don't think so

> ..

> "William Hightower" <william.hightower@earthlink.net> wrote in message
> news:%qTfh.8739$sf5.4850@newsread4.news.pas.earthlink.net...
>> Is this news group down?

It's fairly active most days.

Maybe you just looked on a slow day.

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin


From 1101369523620275355
X-Google-Thread: fc2a5,720f1be215da857f,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!newshub.sdsu.edu!
```

newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr29.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: WJ-8718 mixer ?
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <OKVfh.23039$9v5.9833@newssvr29.news.prodigy.net>
NNTP-Posting-Host: 64.149.45.26
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr29.news.prodigy.net 1166026798 ST000 64.149.45.26 (Wed, 13 Dec 2006 11:19:58 EST)
NNTP-Posting-Date: Wed, 13 Dec 2006 11:19:58 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
TSU[@I_A\S@ERQXXKZOX_RXAUSXB@DTMNHWB_EYLJZ]BGIELK^RAQFW[ML\THRCKV^GGZKJMGV^^_JSCFF
UA_QXFGVSCYRPILH]TRVKC^LSN@DX_HCAFX__@J\DAJBVMY\ZWZCZLPA^MVH_P@\
\EOMW\YSXHG__IJQY_@M[A[[AXQ_XDSTAR]\PG]NVAQUVM
Date: Wed, 13 Dec 2006 16:19:58 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8227

Does anyone have a manual for the Watkins Johnson WJ-8718 and could scan the
mixer circuit in the input converter and email it to me? Or better if
anyone has a spare input converter that they'd sell, it's A3 791592. Or the
mixer module or a mod that allows one tho use a Minicircuits mixer module.
tnx

--

73
Hank WD5JFR

From 3287275692196381724
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!n67g2000cwd.googlegroups.com!not-for-mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave UPDATE
Date: 13 Dec 2006 09:43:14 -0800
Organization: http://groups.google.com
Lines: 23
Message-ID: <1166031794.175793.239780@n67g2000cwd.googlegroups.com>

References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
NNTP-Posting-Host: 4.239.171.17
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166031800 1255 127.0.0.1 (13 Dec 2006 17:43:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 13 Dec 2006 17:43:20 +0000 (UTC)
In-Reply-To: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n67g2000cwd.googlegroups.com; posting-host=4.239.171.17;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8228

I'll admit that the idea of a tube receiver is partly based on looks than EMP survivalbility. (I managed to find eight wonderful old headsets at a school sale. Bakelite earpieces and cloth wrapped wire!) I thought it might give me more of a 50's era Cold War feel. I'm sure I'm not the only one who likes using tubes as well! ;-)

As far as using solid state, I wouldn't be opposed to it, especially if I could figure a way to shield the parts from EMP. The main reasons I wanted to adapt a car's AM radio was because they're cheap (I know for a fact there's one at the local resale shop) and have a certain amount of shielding, plus they run on 12 volt DC. I've discovered they have plans for a shortwave converter in another of the Impoverished Radio Experimenter's books, so I might look into that. There is also a bit of that post-apocalyptic feel of using "junk" to listen to the airwaves.

I'm seriously considering getting a ham license. So far, the only thing holding me back is learning Morse code for CW.

Thanks to all who have posted with suggestions, advice and comments.

Ralph Glatt

From 1346457868004163373
X-Google-Thread: fc2a5,ce153bacb0985428
X-Google-Thread: fc8b1,ce153bacb0985428
X-Google-Thread: 108122,ce153bacb0985428
X-Google-Thread: 111d0a,ce153bacb0985428
X-Google-Thread: 113975,ce153bacb0985428
X-Google-Attributes: gidfc2a5,gidfc8b1,gid108122,gid111d0a,gid113975,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
208.49.83.146.MISMATCH!uns-out.usenetserver.com!news.usenetserver.com!
pc02.usenetserver.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail

From: "amdx" <amdx@knology.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,sci.electronics.basics,sci.astro.amateur
References: <1165673325.215679.235050@73g2000cwn.googlegroups.com>
Subject: Re: SolderSmoke #43: LP Filters, Titan, Feedback amps, Return Loss
Bridges, "Gonzo Gizmos"
Date: Wed, 13 Dec 2006 12:42:27 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <ef36$4580496b$45011502$17305@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 40
X-Trace: 0ef364580496be0a4b0a717305
Xref: g2news2.google.com rec.radio.amateur.homebrew:8229
rec.radio.amateur.boatanchors:6713 rec.radio.amateur.equipment:7550
sci.electronics.basics:30540 sci.astro.amateur:46792

<bill.meara@gmail.com> wrote in message
news:1165673325.215679.235050@73g2000cwn.googlegroups.com...
> SolderSmoke!
> A SHOW FOR ELECTRONICS HOMEBREWERS!
>
> http://www.soldersmoke.com
>
> Listen at: http://www.soldersmoke.com
>
> SolderSmoke   #43 December 9, 2006
> Tired of listening to Led Zepplin or NPR on your
> I-Pod?   Wouldn't you like to be able to carry with
> you the kinds of ham radio conversations that you
> listen to while in your radio shack?
> Mike, KL7R, in Juneau, Alaska, and Bill, M0HBR, in
> London, England meet regularly on the ECHOLINK system
> to discuss their homebrew radio projects. We are
> making them available as PODCASTS.
>
> http://www.soldersmoke.com
>
> 73 from London
> Bill M0HBR N2CQR CU2JL
> http://www.gadgeteer.us
>
  Hey thanks, Bill
 I downloaded a few of your programs and installed them on a MP3 player.
My first attempt at such a thing, it all went smoothly, I listened to the
discusion
while on the treadmill and while working the weight machines this morning, I

enjoyed the conversation. I'll be adding more soon.
I bought a cheapy MP3 player at FYE, hold on now, list price is $29.99, it is on sale for $19.99 and has a $10.00 rebate. So the final cost is about $10.00!
Works fine but it is bare bones.
Thanks again for the feed,
Mike

From 3543440512720525460
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!gail.ripco.com!rahul.net!wasp.rahul.net!rahul.net!198.137.254.146.MISMATCH!news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave UPDATE
Date: Wed, 13 Dec 2006 19:51:28 +0000 (UTC)
Organization: MGT Consulting
Lines: 21
Message-ID: <slrneo0lat.1b3.gsm@cable.mendelson.com>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com> <1166031794.175793.239780@n67g2000cwd.googlegroups.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-139-37-121.bb.netvision.net.il
X-Trace: marvin.misty.com 1166039488 17588 89.139.37.121 (13 Dec 2006 19:51:28 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Wed, 13 Dec 2006 19:51:28 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8230

julian814 wrote:
> I'm seriously considering getting a ham license. So far, the only thing holding me back is learning Morse code for CW.

Do a search on Code Quick. I think the URL is www.codequick2000.com or something like that. It's a combination audio/visual/tactile system that teaches you how to copy morse code as if it were words and not beeps.

Worked great for me, I tried for 29 years and never was able to get anywhere near 5 wpm. With code quick I was able to pass the 13wpm test and at my peak copy at 35wpm.

Best $50 I ever spent on the hobby.

Geoff.

--

Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
IL Voice: (07)-7424-1667 Fax ONLY: 972-2-648-1443 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/

From -2212907427686415437
X-Google-Thread: fc2a5,20da8e7b5c9a1e15,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wn13feed!worldnet.att.net!bgtnsc04-
news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: 19" BLANK RACK PANEL,NOS & Used + stuff
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <gxZfh.485871$QZ1.316761@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: 799d033e5403495e5490b49d213da44a
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1166042316
799d033e5403495e5490b49d213da44a (Wed, 13 Dec 2006 20:38:36 GMT)
NNTP-Posting-Date: Wed, 13 Dec 2006 20:38:36 GMT
Organization: AT&T Worldnet
Date: Wed, 13 Dec 2006 20:38:36 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8231

Have several new and used 19 inch blank rack panels + other stuff AND I
will have
a few smaller panels tomorrow that are pre-punched - i.e. used- check
back

Tnx for looking, heytubeguy

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

From 3379063064396062997
X-Google-Thread: fc2a5,720f1be215da857f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!uns-
out.usenetserver.com!news.usenetserver.com!pc02.usenetserver.com!ALLTEL.NET-
a2kHrUvQQWlmc!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WJ-8718 mixer ?

From: Phil <pjock@xalltel.net>
References: <OKVfh.23039$9v5.9833@newssvr29.news.prodigy.net>
Organization: Your Company
Message-ID: <Xns9898CCA114505pjockxxxSpearNetnet@208.49.80.253>
User-Agent: Xnews/5.04.25
X-Complaints-To: abuse@usenetserver.com
Date: Wed, 13 Dec 2006 20:05:33 -0500
Lines: 14
X-Trace: e88fb4580a35de629388f10771
Xref: g2news2.google.com rec.radio.amateur.homebrew:8232

Would you like the whole manual? I have one you can have for shipping.

phil

"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in news:OKVfh.23039$9v5.9833@newssvr29.news.prodigy.net:

> Does anyone have a manual for the Watkins Johnson WJ-8718 and could
> scan the mixer circuit in the input converter and email it to me? Or
> better if anyone has a spare input converter that they'd sell, it's A3
> 791592. Or the mixer module or a mod that allows one tho use a
> Minicircuits mixer module. tnx

From 6018516292139094779
X-Google-Thread: fc2a5,720f1be215da857f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!newssvr29.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@nojunksbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <OKVfh.23039$9v5.9833@newssvr29.news.prodigy.net> <Xns9898CCA114505pjockxxxSpearNetnet@208.49.80.253>
Subject: Re: WJ-8718 mixer ?
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <U73gh.23845$9v5.5152@newssvr29.news.prodigy.net>
NNTP-Posting-Host: 64.149.45.26
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr29.news.prodigy.net 1166065268 ST000 64.149.45.26 (Wed, 13 Dec 2006 22:01:08 EST)
NNTP-Posting-Date: Wed, 13 Dec 2006 22:01:08 EST
Organization: SBC http://yahoo.sbc.com

```
X-UserInfo1:
TSU[@ION^ZUKRTD[@JIROFXBWR\HPCTL@XT^OBPLAH[\RSAANVUEAE[YETZPIWWI[FCIZA^NBFXZ_D[BFN
TCNVPDTNTKHWXKB@X^B_OCJLPZ@ET_O[G\XSG@E\G[ZKVLBL^CJINM@I_KVIOR\T_M_AW_M[_BWU_HFA_]
@A_A^SGFAUDE_DFTMQPFWVW[QPJN
Date: Thu, 14 Dec 2006 03:01:08 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8233

Phil
I sent you a message, hope you got it.  A manual will be very helpful and
I'll take your offer.
tnx
Hank
"Phil" <pjock@xalltel.net> wrote in message
news:Xns9898CCA114505pjockxxxSpearNetnet@208.49.80.253...
> Would you like the whole manual?  I have one you can have for
> shipping.
>
> phil
>
>
> "Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in
> news:OKVfh.23039$9v5.9833@newssvr29.news.prodigy.net:
>
>> Does anyone have a manual for the Watkins Johnson WJ-8718 and could
>> scan the mixer circuit in the input converter and email it to me?  Or
>> better if anyone has a spare input converter that they'd sell, it's A3
>> 791592.  Or the mixer module or a mod that allows one tho use a
>> Minicircuits mixer module. tnx




From 2094769415198085314
X-Google-Thread: fc2a5,d52243bb6a968e13
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: "Richard Knoppow" <dickburk@ix.netcom.com>
Newsgroups: rec.radio.amateur.homebrew
References: <%qTfh.8739$sf5.4850@newsread4.news.pas.earthlink.net>
Subject: Re: Test
Date: Wed, 13 Dec 2006 19:17:31 -0800
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
Lines: 25
Message-ID: <4580b59c$0$15561$88260bb3@free.teranews.com>
NNTP-Posting-Date: 14 Dec 2006 02:23:26 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8234
```

```
"William Hightower" <william.hightower@earthlink.net> wrote
in message
news:%qTfh.8739$sf5.4850@newsread4.news.pas.earthlink.net...
> Is this news group down?
   He won't see this reply. He is an Earthlink subscriber,
as am I (Netcom is an Earthlink company). For the past
several days Earthlink's news servers have not been updating
messages. Only a very few groups work, the rest have no
messages newer than about 8 December. You can download
existing messages and post but new messages just don't show
up.
   I've been using Google groups and am now using a freebee
Teranews account.
   Earthlink is a godawful provider but one hears horror
stories about most of the others too.



--
---
Richard Knoppow
Los Angeles, CA, USA
dickburk@ix.netcom.com




--
Posted via a free Usenet account from http://www.teranews.com




From -6935439808164655758
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f1g2000cwa.googlegroups.com!not-for-
mail
From: "ray13" <ray_psi@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave UPDATE
Date: 13 Dec 2006 20:00:45 -0800
Organization: http://groups.google.com
Lines: 43
Message-ID: <1166068845.588307.154530@f1g2000cwa.googlegroups.com>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
   <1166031794.175793.239780@n67g2000cwd.googlegroups.com>
   <slrneo0lat.1b3.gsm@cable.mendelson.com>
NNTP-Posting-Host: 63.215.162.125
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166068852 29613 127.0.0.1 (14 Dec 2006 04:00:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 14 Dec 2006 04:00:52 +0000 (UTC)
User-Agent: G2/1.0
```

X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.12) Gecko/20050610 K-Meleon/0.9,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f1g2000cwa.googlegroups.com; posting-host=63.215.162.125;
   posting-account=BaJWiQsAAAA6oyAftes6xeuZHJqoZd41
Xref: g2news2.google.com rec.radio.amateur.homebrew:8235

Geoffrey S. Mendelson wrote:
> julian814 wrote:
> > I'm seriously considering getting a ham license. So far, the only thing holding me back is learning Morse code for CW.
>
> Do a search on Code Quick. I think the URL is www.codequick2000.com or something like that. It's a combination audio/visual/tactile system that teaches you how to copy morse code as if it were words and not beeps.
>
> Worked great for me, I tried for 29 years and never was able to get anywhere near 5 wpm. With code quick I was able to pass the 13wpm test and at my peak copy at 35wpm.
>
> Best $50 I ever spent on the hobby.
>
> Geoff.
>
> --
> Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
> IL Voice: (07)-7424-1667 Fax ONLY: 972-2-648-1443 U.S. Voice: 1-215-821-1838
> Visit my 'blog at http://geoffstechno.livejournal.com/

Heck your hot mail dont work my links dont work. so try nj7p's tube data web page I'm sure it has a link to an RCA tube manual. In the back of the RCA tube manual is many a circuit an the older the manaul the better the tube circuits are or were. I recall a converter or two back in the day, all tube radio, on a points/distributor ignition system car, yeah vibrators those were the days. You know the trick to clean the contacts on a vibrator 100 watt light bulb in series with the coil and plug it into the mains

Then just about the time tung sol invented the 12VDC plate voltage tube, transistors took over.
I even know how to make a tube out of a dual filament car taillight.
Now there's a real tube.

ray
N8ZU/e0

Hey I like to know what country has a code requirement to get your ticket.

From -7010894506735163282

```
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 13 Dec 2006 22:58:09 -0600
Date: Thu, 14 Dec 2006 05:57:56 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla Thunderbird 1.0.2 (X11/20050322)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave UPDATE
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
<1166031794.175793.239780@n67g2000cwd.googlegroups.com>
<slrneo0lat.1b3.gsm@cable.mendelson.com>
In-Reply-To: <slrneo0lat.1b3.gsm@cable.mendelson.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <gIqdnWuSo6F8RB3YnZ2dnUVZ8s6qnZ2d@pipex.net>
Lines: 10
NNTP-Posting-Host: 71.107.26.158
X-Trace:
sv3-39LVOg16A3OzykmwpYozL9Fbdbuk4tNAVPi6NQQRTeknJDqste0IO9ke076RbqoQwomtdzJIA9Ux+J
t!mwVM7XE+B62H5mLTlm6d0HcYHHHpyOiHI1X5QORW7ZQKqDPcN0G4+EBRDLPkSuIIIB00jaa0Qs/d!
SIaeNOvjlC+3rTkmlFQ9b3pktw==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8236

>I'm seriously considering getting a ham license. So far, the only thing
>holding me back is learning Morse code for CW.
==========================
You currently only need to do a 5 wpm morse (receive only) for the
highest class of licence ,giving you all the privileges available to a
licenced radio amateur.
So you can start with with getting licences with not all the privileges
and enjoy operating before you go for the Amateur Extra class of licence.

Frank   KN6WH / GM0CSZ


From -5906397137391872974
X-Google-Thread: fc2a5,c5e46327b03f24dc,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
```

newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr27.news.prodigy.net.POSTED!2eb4dde1!not-for-mail
From: "Sbc News" <Andy@Hardy.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Looking for a SL6440 Mixer IC
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <izigh.2492$yC5.2427@newssvr27.news.prodigy.net>
NNTP-Posting-Host: 69.11.245.136
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr27.news.prodigy.net 1166128462 ST000 69.11.245.136 (Thu, 14 Dec 2006 15:34:22 EST)
NNTP-Posting-Date: Thu, 14 Dec 2006 15:34:22 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
F[OYB_[DGJPUCFD[LZKJOPHAWB\^PBQLGPQRJRQIMASJETAANVW[AKWZE\]^XQWIGNE_[EBL@^_\^JOCQ^RSNVLGTFTKHTXHHP[NB_C@\SD@EP_[KCXX__AGDDEKGFNB\ZOKLRNCY_CGG[RHT_UN@C_BSY\G__IJIX_PLSA[CCFAULEY\FL\VLGANTQQ]FN
Date: Thu, 14 Dec 2006 20:34:22 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8237

I know these have out of production for a while. If anyone knows of a
source for a dozzen or so, I would be greatful I you would share your
information with me.

Thanks,
Emil
W9NM

From -5289721533209271609
X-Google-Thread: fc2a5,c5e46327b03f24dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr27.news.prodigy.net.POSTED!2eb4dde1!not-for-mail
From: "Sbc News" <Andy@Hardy.com>
Newsgroups: rec.radio.amateur.homebrew
References: <izigh.2492$yC5.2427@newssvr27.news.prodigy.net>
Subject: Re: Looking for a SL6440 Mixer IC
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Response

```
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <mLigh.2497$yC5.1735@newssvr27.news.prodigy.net>
NNTP-Posting-Host: 69.11.245.136
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr27.news.prodigy.net 1166129234 ST000 69.11.245.136 (Thu, 14 Dec
2006 15:47:14 EST)
NNTP-Posting-Date: Thu, 14 Dec 2006 15:47:14 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
FKPO@MONPRVMB_LZ]BCBNWX@RJ_XPDLMN@GZ_GYO^ZUDUWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
TINTDDMVW[X\THOPXZRVOCJTUTPC\_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Thu, 14 Dec 2006 20:47:14 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8238

Always nice to proof-read.

If any kiddies are in the room:

If anyone knows of a source for a dozen or so, I would be grateful I you
would share your information with me.


"Sbc News" <Andy@Hardy.com> wrote in message
news:izigh.2492$yC5.2427@newssvr27.news.prodigy.net...
>I know these have out of production for a while.  If anyone knows of a
>source for a dozzen or so, I would be greatful I you would share your
>information with me.
>
> Thanks,
> Emil
> W9NM
>




From 2166471912424672759
X-Google-Thread: fc2a5,de4ea56a49539b4
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 14 Dec 2006 15:33:44 -0600
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <7lntn25ft8hn2p1gpitjmgdvtrq0t5kjse@4ax.com>
Subject: Re: Command Technologies HF-1250 Documentation?
Date: Thu, 14 Dec 2006 15:33:40 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
```

```
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <oJCdneWGS_elXhzYnZ2dnUVZ_vqpnZ2d@comcast.com>
Lines: 17
NNTP-Posting-Host: 67.176.141.93
X-Trace: sv3-HIn03S/
5FKGDSjNEL4mklJDaPke3O8C3Zg1ChPXUbwsFHT+s+YPwpsePQlHTrcrRrncF2ul8Z1JyU+M!/
p2/5eNdHHk/wXsmu9lcUU1yFhKO5slR8ABvhdUL4aJjXP4KVoF6Y/59B0K+0nr5R02g/pvsN6pv!
NO4ZEBBk3QrEIc8u4LM=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8239

I assume that you have contacted Command Technologies (e-mail or phone) and
they have told you they no longer have this documentation?

First Google.com search hit found their web page:
http://www.command1.com/default.asp


"Danny Richardson" <n_group@k6mhe.com> wrote in message
news:7lntn25ft8hn2p1gpitjmgdvtrq0t5kjse@4ax.com...
> Does anyone have documentation for a Command Technologies HF-1250
> amplifier? I've searching the web with no luck.
>
> 73
> Danny, K6MHE
>




From -8985873466265516562
X-Google-Thread: fc2a5,c5e46327b03f24dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!79g2000cws.googlegroups.com!not-for-
mail
From: sailtamarack@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for a SL6440 Mixer IC
Date: 14 Dec 2006 22:32:10 -0800
Organization: http://groups.google.com
Lines: 18
Message-ID: <1166164330.813491.198600@79g2000cws.googlegroups.com>
References: <izigh.2492$yC5.2427@newssvr27.news.prodigy.net>
NNTP-Posting-Host: 70.66.130.168
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
```

X-Trace: posting.google.com 1166164337 8277 127.0.0.1 (15 Dec 2006 06:32:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 15 Dec 2006 06:32:17 +0000 (UTC)
In-Reply-To: <izigh.2492$yC5.2427@newssvr27.news.prodigy.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 79g2000cws.googlegroups.com; posting-host=70.66.130.168;
   posting-account=gXcV3gwAAACKhdV_aZ9TbpV32cSAnBGe
Xref: g2news2.google.com rec.radio.amateur.homebrew:8240

You might find them here: http://www.quest-comp.com/

I found them by using this search engine:
http://www.findchips.com/avail

Good luck - Plessey chips are a rare bird now - Roger

Sbc News wrote:
> I know these have out of production for a while. If anyone knows of a
> source for a dozzen or so, I would be greatful I you would share your
> information with me.
>
> Thanks,
> Emil
> W9NM

From 2029511488003284083
X-Google-Thread: fc2a5,de4ea56a49539b4
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 15 Dec 2006 08:44:01 -0600
From: Danny Richardson <n_group@k6mhe.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Command Technologies HF-1250 Documentation?
Date: Fri, 15 Dec 2006 06:43:58 -0800
Message-ID: <q4d5o29unnhdc40u4j29ktpmv1rldmiu8u@4ax.com>
References: <7lntn25ft8hn2p1gpitjmgdvtrq0t5kjse@4ax.com>
<oJCdneWGS_elXhzYnZ2dnUVZ_vqpnZ2d@comcast.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 10
NNTP-Posting-Host: 68.64.59.124

```
X-Trace: sv3-nNvS2St3uWv0Xc1lR/nSbKHQ8e9EUdgLuPYfHMj2DV6Xc3k/
qNkwoJTHkUb5h0MDKH5piegn/GLzRSg!
GZXRYC2Q4c0VLBKH61dg28e6tBD+vPItSDJSwcVZ8YuurWi25gxZBi4s+wsJEP65g4YFbCDYn5xN!
A6AEzrA8LDIybxLTmGst
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8241

On Thu, 14 Dec 2006 15:33:40 -0600, "w9gb" <spam_protect@arrl.net>
wrote:

>I assume that you have contacted Command Technologies (e-mail or phone) and
>they have told you they no longer have this documentation?
>
That is correct.

Danny




From 4697664741126785693
X-Google-Thread: fc2a5,de4ea56a49539b4
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 15 Dec 2006 09:14:55 -0600
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <7lntn25ft8hn2p1gpitjmgdvtrq0t5kjse@4ax.com>
<oJCdneWGS_elXhzYnZ2dnUVZ_vqpnZ2d@comcast.com>
<q4d5o29unnhdc40u4j29ktpmv1rldmiu8u@4ax.com>
Subject: Re: Command Technologies HF-1250 Documentation?
Date: Fri, 15 Dec 2006 09:14:50 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <BpidnUuBsYpyJh_YnZ2dnUVZ_rOqnZ2d@comcast.com>
Lines: 21
NNTP-Posting-Host: 67.176.141.93
X-Trace: sv3-
ZVER4wfLYXqVOlGTWSbWw2xX6tqdBfudjwJUc59msys0ZIoHptT0nVLRF1FtSztnToe71m3EDaP29Ej!
pPqlIU2YARNAXMHweXrv9mH7LKinRGrYDIOow3rKgQqhWKH1LjPZ5tolzO46s7IpXGERIJLtqIzp!
hL8k5s0lH8/897LbaaA=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
```

X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8242

"Danny Richardson" <n_group@k6mhe.com> wrote in message
news:q4d5o29unnhdc40u4j29ktpmv1rldmiu8u@4ax.com...
> On Thu, 14 Dec 2006 15:33:40 -0600, "w9gb" <spam_protect@arrl.net>
> wrote:
>
>>I assume that you have contacted Command Technologies (e-mail or phone)
>>and
>>they have told you they no longer have this documentation?
>>
> That is correct.

Did you also contact QRO Technologies ???
http://www.qrotec.com/

Since the HR-1250 was a Command Amplifier was before Patrick Stein, N8BRA
(Command) and Ray Connin, KB8VU (now QRO) "split of the companies" a few
years ago.

w9gb

From 6137995268374906041
X-Google-Thread: fc2a5,1f2729639325e0ee,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!newspeer1.nwr.nac.net!newspeer.monmouth.com!newsswitch.lcs.mit.edu!nntp.TheWorld.com!not-for-mail
From: jhallen@TheWorld.com (Joseph H Allen)
Newsgroups: rec.radio.amateur.homebrew
Subject: impedance/noise match
Date: Fri, 15 Dec 2006 15:57:02 +0000 (UTC)
Organization: The World : www.TheWorld.com : Since 1989
Lines: 12
Message-ID: <elugke$b8u$1@pcls4.std.com>
NNTP-Posting-Host: shell01.theworld.com
X-Trace: pcls4.std.com 1166198222 11550 192.74.137.71 (15 Dec 2006 15:57:02 GMT)
X-Complaints-To: abuse@TheWorld.com
NNTP-Posting-Date: Fri, 15 Dec 2006 15:57:02 +0000 (UTC)
X-Newsreader: trn 4.0-test72 (19 April 1999)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8243

What do you do if the input impedance of an LNA does not equal the source impedance which gives the lowest noise?

The source might be an antenna, transmission line or filter which will not
work properly if it does not see the correct impedance.

```
--
/*  jhallen@world.std.com AB1GO */                        /* Joseph H. Allen */
int a[1817];main(z,p,q,r){for(p=80;q+p-80;p-=2*a[p])for(z=9;z--;)q=3&(r=time(0)
+r*57)/7,q=q?q-1?q-2?1-p%79?-1:0:p%79-77?1:0:p<1659?79:0:p>158?-79:0,q?!a[p+q*2
]?a[p+=a[p+=q]=q]=q:0:0;for(;q++-1817;)printf(q%79?"%c":"%c\n"," #"[!a[q-1]]);}
```

From -6073979406036912107
X-Google-Thread: fc2a5,720f1be215da857f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!208.49.83.146!uns-
out.usenetserver.com!news.usenetserver.com!pc02.usenetserver.com!ALLTEL.NET-
a2kHrUvQQWlmc!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WJ-8718 mixer ?
From: Phil <pj2006@xalltel.net>
References: <OKVfh.23039$9v5.9833@newssvr29.news.prodigy.net>
<Xns9898CCA114505pjockxxxSpearNetnet@208.49.80.253>
<U73gh.23845$9v5.5152@newssvr29.news.prodigy.net>
Organization: Your Company
Message-ID: <Xns989A7C470B3E0pjockxxxSpearNetnet@208.49.80.253>
User-Agent: Xnews/5.04.25
X-Complaints-To: abuse@usenetserver.com
Date: Fri, 15 Dec 2006 12:11:33 -0500
Lines: 49
X-Trace: af8e44582d745e2b942d428944
Xref: g2news2.google.com rec.radio.amateur.homebrew:8244

Hank,

We appear to be crossing paths or whatever that cliche is...

I did not receive your email because I forgot to change
my old (obscured) email address in my news reader program.
I sent you a note to what I thought your correct email address
should be based on what I saw in your post, but I guess you
did not get it either.

Anyway, send me your mailing address using this email address
for me:

  pj2006 at alltel.net

(you know what to do with the "at" part)

I'll fire off the manual via media mail through USPS. You should

```
have it in 7 to 10 days according to the post office.

73,

phil


"Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in
news:U73gh.23845$9v5.5152@newssvr29.news.prodigy.net:

> Phil
> I sent you a message, hope you got it.  A manual will be very helpful
> and I'll take your offer.
> tnx
> Hank
> "Phil" <pjock@xalltel.net> wrote in message
> news:Xns9898CCA114505pjockxxxSpearNetnet@208.49.80.253...
>> Would you like the whole manual?  I have one you can have for
>> shipping.
>>
>> phil
>>
>>
>> "Henry Kolesnik" <kolesnik@nojunksbcglobal.net> wrote in
>> news:OKVfh.23039$9v5.9833@newssvr29.news.prodigy.net:
>>
>>> Does anyone have a manual for the Watkins Johnson WJ-8718 and could
>>> scan the mixer circuit in the input converter and email it to me?
>>> Or better if anyone has a spare input converter that they'd sell,
>>> it's A3 791592.  Or the mixer module or a mod that allows one tho
>>> use a Minicircuits mixer module. tnx


From 330567637908761737
X-Google-Thread: fc2a5,c5e46327b03f24dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!newsfeed.freenet.de!
news-out1.kabelfoon.nl!newsfeed.kabelfoon.nl!xindi.nntp.kabelfoon.nl!zen.net.uk!
demorgan.zen.co.uk!feeder.news.heanet.ie!news.indigo.ie!not-for-mail
From: Eamon Skelton <Xnospam@oceanfree.net>
Subject: Re: Looking for a SL6440 Mixer IC
Newsgroups: rec.radio.amateur.homebrew
References: <izigh.2492$yC5.2427@newssvr27.news.prodigy.net>
     <mLigh.2497$yC5.1735@newssvr27.news.prodigy.net>
User-Agent: pan 0.119 (Karma Hunters)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 22
Message-ID: <oaBgh.16864$j7.336505@news.indigo.ie>
Date: Fri, 15 Dec 2006 17:44:52 GMT
NNTP-Posting-Host: 86.41.157.171
```

```
X-Complaints-To: abuse@eircom.net
X-Trace: news.indigo.ie 1166204692 86.41.157.171 (Fri, 15 Dec 2006 17:44:52 GMT)
NNTP-Posting-Date: Fri, 15 Dec 2006 17:44:52 GMT
Organization: Eircom.Net http://www.eircom.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8245

On Thu, 14 Dec 2006 20:47:14 +0000, Sbc News wrote:

> Always nice to proof-read.

Nah! This is Usenet.

> If any kiddies are in the room:
>
> If anyone knows of a source for a dozen or so, I would be grateful I you
> would share your information with me.

Some of the UK suppliers might still have some in stock. Try:
http://www.jabdog.com/semi-lin6.htm

73, Ed. EI9GQ.




--
Remove 'X' to reply by e-mail.
linux 2.6.17


From -7187326835707356304
X-Google-Thread: fc2a5,de4ea56a49539b4
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 15 Dec 2006 12:17:32 -0600
From: Danny Richardson <n_group@k6mhe.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Command Technologies HF-1250 Documentation?
Date: Fri, 15 Dec 2006 10:17:28 -0800
Message-ID: <s5p5o25vvqdc9aek2p4adrhjotjmjqb1cm@4ax.com>
References: <7lntn25ft8hn2p1gpitjmgdvtrq0t5kjse@4ax.com>
<oJCdneWGS_elXhzYnZ2dnUVZ_vqpnZ2d@comcast.com>
<q4d5o29unnhdc40u4j29ktpmv1rldmiu8u@4ax.com>
<BpidnUuBsYpyJh_YnZ2dnUVZ_rOqnZ2d@comcast.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 28
NNTP-Posting-Host: 68.64.59.124
```

```
X-Trace: sv3-xCjp1ycpizIwmVNaUnzSi23Ds0L4L5lMrAdePko+/
+ajinYUbqo4c+aOl+q1zuV5OkIgZ2EAiJa28C/!KTPMfj8zX82b/
bzXSTd5R4ckoU3u1zfSpFMHZuknIY7hfSj5Vh215Yq5wSm5TMBz/VXiyyUg090x!
arMU3zB86a2rePWekXCS
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8246

On Fri, 15 Dec 2006 09:14:50 -0600, "w9gb" <spam_protect@arrl.net>
wrote:

>"Danny Richardson" <n_group@k6mhe.com> wrote in message
>news:q4d5o29unnhdc40u4j29ktpmv1rldmiu8u@4ax.com...
>> On Thu, 14 Dec 2006 15:33:40 -0600, "w9gb" <spam_protect@arrl.net>
>> wrote:
>>
>>>I assume that you have contacted Command Technologies (e-mail or phone)
>>>and
>>>they have told you they no longer have this documentation?
>>>
>> That is correct.
>
>Did you also contact QRO Technologies ???
> http://www.qrotec.com/
>
>Since the HR-1250 was a Command Amplifier was before Patrick Stein, N8BRA
>(Command) and Ray Connin, KB8VU (now QRO) "split of the companies" a few
>years ago.
>
No, I had not tried them, but have now sent off an email to them and
will see what their responce might be.

Thanks for the suggestion.

Danny, K6MHE




From -3774463782357992352
X-Google-Thread: fc2a5,de4ea56a49539b4
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 15 Dec 2006 12:31:20 -0600
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <7lntn25ft8hn2p1gpitjmgdvtrq0t5kjse@4ax.com>
```

```
<oJCdneWGS_elXhzYnZ2dnUVZ_vqpnZ2d@comcast.com>
<q4d5o29unnhdc40u4j29ktpmv1rldmiu8u@4ax.com>
<BpidnUuBsYpyJh_YnZ2dnUVZ_rOqnZ2d@comcast.com>
<s5p5o25vvqdc9aek2p4adrhjotjmjqb1cm@4ax.com>
Subject: Re: Command Technologies HF-1250 Documentation?
Date: Fri, 15 Dec 2006 12:31:16 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <-Kqdnc9tPZNldB_YnZ2dnUVZ_silnZ2d@comcast.com>
Lines: 37
NNTP-Posting-Host: 67.176.141.93
X-Trace: sv3-wtvI7swNBv9JUb/UbZ3secq/
aRbKAB1k7zSWpEMjVA3VmmHAxPy3hLC2x4+cX1QYBTkQsPHSSqKokNG!
ASGXR9bzCMm29zwqLYn4pnqE1VR+nXdZY7zQrC+g+8HGzBy7kPwtK3BuRFd6cySfxGBEMCMweLV7!
vnjOoAm+Z+ExEAfuHgU=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8247

"Danny Richardson" <n_group@k6mhe.com> wrote in message
news:s5p5o25vvqdc9aek2p4adrhjotjmjqb1cm@4ax.com...
> On Fri, 15 Dec 2006 09:14:50 -0600, "w9gb" <spam_protect@arrl.net>
> wrote:
>
>>"Danny Richardson" <n_group@k6mhe.com> wrote in message
>>news:q4d5o29unnhdc40u4j29ktpmv1rldmiu8u@4ax.com...
>>> On Thu, 14 Dec 2006 15:33:40 -0600, "w9gb" <spam_protect@arrl.net>
>>> wrote:
>>>
>>>>I assume that you have contacted Command Technologies (e-mail or phone)
>>>>and
>>>>they have told you they no longer have this documentation?
>>>>
>>> That is correct.
>>
>>Did you also contact QRO Technologies ???
>> http://www.qrotec.com/
>>
>>Since the HR-1250 was a Command Amplifier was before Patrick Stein, N8BRA
>>(Command) and Ray Connin, KB8VU (now QRO) "split of the companies" a few
>>years ago.
>>
> No, I had not tried them, but have now sent off an email to them and
> will see what their responce might be.
>
> Thanks for the suggestion.
```

>
> Danny, K6MHE
>

The HF-1250 used a single 3CPX800A ... so it really is a single tube version of the HF-2500.

gb

```
From -2631004812157162780
X-Google-Thread: fc2a5,de4ea56a49539b4
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 15 Dec 2006 13:00:18 -0600
From: Danny Richardson <n_group@k6mhe.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Command Technologies HF-1250 Documentation?
Date: Fri, 15 Dec 2006 11:00:18 -0800
Message-ID: <dvr5o256mf6m5jvuqih4s7uqmradlscm85@4ax.com>
References: <7lntn25ft8hn2p1gpitjmgdvtrq0t5kjse@4ax.com>
<oJCdneWGS_elXhzYnZ2dnUVZ_vqpnZ2d@comcast.com>
<q4d5o29unnhdc40u4j29ktpmv1rldmiu8u@4ax.com>
<BpidnUuBsYpyJh_YnZ2dnUVZ_rOqnZ2d@comcast.com>
<s5p5o25vvqdc9aek2p4adrhjotjmjqb1cm@4ax.com> <-
Kqdnc9tPZNldB_YnZ2dnUVZ_silnZ2d@comcast.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 52
NNTP-Posting-Host: 68.64.59.124
X-Trace: sv3-W5jXX4+aVxLqFLNBUO1WYDOcjwC5N13qtsKp3oT4yG7lz4ZK6BnhkK+R+UtRqHDo8//
RR3DSnVb4bRt!1ly1ej0hyZ4/5v3SfDbhtRgwv81d1ny6bRV8M/
vQ+c1aIAIe8PzP26TlPFFksp4KExAqYW/m54pa!cOnSQ+cwd677rM9guAUU
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8248
```

On Fri, 15 Dec 2006 12:31:16 -0600, "w9gb" <spam_protect@arrl.net>
wrote:

>"Danny Richardson" <n_group@k6mhe.com> wrote in message
>news:s5p5o25vvqdc9aek2p4adrhjotjmjqb1cm@4ax.com...

```
>> On Fri, 15 Dec 2006 09:14:50 -0600, "w9gb" <spam_protect@arrl.net>
>> wrote:
>>
>>>"Danny Richardson" <n_group@k6mhe.com> wrote in message
>>>news:q4d5o29unnhdc40u4j29ktpmv1rldmiu8u@4ax.com...
>>>> On Thu, 14 Dec 2006 15:33:40 -0600, "w9gb" <spam_protect@arrl.net>
>>>> wrote:
>>>>
>>>>>I assume that you have contacted Command Technologies (e-mail or phone)
>>>>>and
>>>>>they have told you they no longer have this documentation?
>>>>>
>>>> That is correct.
>>>
>>>Did you also contact QRO Technologies ???
>>> http://www.qrotec.com/
>>>
>>>Since the HR-1250 was a Command Amplifier was before Patrick Stein, N8BRA
>>>(Command) and Ray Connin, KB8VU (now QRO) "split of the companies" a few
>>>years ago.
>>>
>> No, I had not tried them, but have now sent off an email to them and
>> will see what their responce might be.
>>
>> Thanks for the suggestion.
>>
>> Danny, K6MHE
>>
>
>The HF-1250 used a single 3CPX800A ... so it really is a single tube version
>of the HF-2500.
>
>gb
>

I have not received a reply from Ray at QRO and, no, he has no
documentation for the HF-1250.

Besides the HF-1250 using only one tube there are other differences
between the HF-2500 and HF-1250.

Thanks for the suggestions.

vry 73,
Danny, K6MHE




From -1704900038845533141
X-Google-Thread: fc2a5,de4ea56a49539b4
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.adelphia.com!news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 15 Dec 2006 13:05:00 -0600
From: Danny Richardson <n_group@k6mhe.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Command Technologies HF-1250 Documentation?
Date: Fri, 15 Dec 2006 11:04:59 -0800
Message-ID: <2ds5o2lqf7ic1o1tgjv28i1dthtte6ajot@4ax.com>
References: <7lntn25ft8hn2p1gpitjmgdvtrq0t5kjse@4ax.com>
<oJCdneWGS_elXhzYnZ2dnUVZ_vqpnZ2d@comcast.com>
<q4d5o29unnhdc40u4j29ktpmv1rldmiu8u@4ax.com>
<BpidnUuBsYpyJh_YnZ2dnUVZ_rOqnZ2d@comcast.com>
<s5p5o25vvqdc9aek2p4adrhjotjmjqb1cm@4ax.com> <-
Kqdnc9tPZNldB_YnZ2dnUVZ_silnZ2d@comcast.com>
<dvr5o256mf6m5jvuqih4s7uqmradlscm85@4ax.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 62
NNTP-Posting-Host: 68.64.59.124
X-Trace: sv3-
NrLlvdNrW8ruNfoEfXSZsOhThmhWhwWsdHZ1LO1qs1582Wik7nieuDZtajWU5A3lIrb4wPZy7UtX6Dt!
3aU7rwuc70FLRLO/S7nqPErosz58nBXMEq4ftePLRwzn6M2X+kfk4t/GLLFDGARtXRFzRV+jjvHg!
BrvZ1qIPA5ka64oBNtN4
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8249

On Fri, 15 Dec 2006 11:00:18 -0800, Danny Richardson
<n_group@k6mhe.com> wrote:

>On Fri, 15 Dec 2006 12:31:16 -0600, "w9gb" <spam_protect@arrl.net>
>wrote:
>
>>"Danny Richardson" <n_group@k6mhe.com> wrote in message
>>news:s5p5o25vvqdc9aek2p4adrhjotjmjqb1cm@4ax.com...
>>> On Fri, 15 Dec 2006 09:14:50 -0600, "w9gb" <spam_protect@arrl.net>
>>> wrote:
>>>
>>>>"Danny Richardson" <n_group@k6mhe.com> wrote in message
>>>>news:q4d5o29unnhdc40u4j29ktpmv1rldmiu8u@4ax.com...
>>>>> On Thu, 14 Dec 2006 15:33:40 -0600, "w9gb" <spam_protect@arrl.net>
>>>>> wrote:
>>>>>
>>>>>>I assume that you have contacted Command Technologies (e-mail or phone)
>>>>>>and
>>>>>>they have told you they no longer have this documentation?
```

```
>>>>>>
>>>>> That is correct.
>>>>
>>>>Did you also contact QRO Technologies ???
>>>> http://www.qrotec.com/
>>>>
>>>>Since the HR-1250 was a Command Amplifier was before Patrick Stein, N8BRA
>>>>(Command) and Ray Connin, KB8VU (now QRO) "split of the companies" a few
>>>>years ago.
>>>>
>>> No, I had not tried them, but have now sent off an email to them and
>>> will see what their responce might be.
>>>
>>> Thanks for the suggestion.
>>>
>>> Danny, K6MHE
>>>
>>
>>The HF-1250 used a single 3CPX800A ... so it really is a single tube version
>>of the HF-2500.
>>
>>gb
>>
>
>I have not received a reply from Ray at QRO and, no, he has no
>documentation for the HF-1250.
>
>Besides the HF-1250 using only one tube there are other differences
>between the HF-2500 and HF-1250.
>
>Thanks for the suggestions.
>
>vry 73,
>Danny, K6MHE

I should learn to proof read! That should say "I have now received a
reply from Ray............

Sheeee


>




From -6684501901701413723
X-Google-Thread: fc2a5,de4ea56a49539b4
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 15 Dec 2006 15:33:08 -0600
```

From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <7lntn25ft8hn2p1gpitjmgdvtrq0t5kjse@4ax.com>
<oJCdneWGS_elXhzYnZ2dnUVZ_vqpnZ2d@comcast.com>
<q4d5o29unnhdc40u4j29ktpmv1rldmiu8u@4ax.com>
<BpidnUuBsYpyJh_YnZ2dnUVZ_rOqnZ2d@comcast.com>
<s5p5o25vvqdc9aek2p4adrhjotjmjqb1cm@4ax.com> <-
Kqdnc9tPZNldB_YnZ2dnUVZ_silnZ2d@comcast.com>
<dvr5o256mf6m5jvuqih4s7uqmradlscm85@4ax.com>
Subject: Re: Command Technologies HF-1250 Documentation?
Date: Fri, 15 Dec 2006 15:33:03 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.3028
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-RFC2646: Format=Flowed; Original
Message-ID: <UMmdnd-ifcsJiR7YnZ2dnUVZ_ompnZ2d@comcast.com>
Lines: 26
NNTP-Posting-Host: 67.176.141.93
X-Trace: sv3-
quTk8Wwf8zbrJ1RrAnDSd0fgfQvTpqRLjHpb9YYWSOyFpOOsMYsEF7Rb9nz31iR2emlhCP7c6+FAn02!
xS7p3ZHvfBhe6rYE+1QrPw+P3xkknVnjmde8E5YHf2/P9Agvvw9pwQebIBgJ1z05nivXRw8S3Xrg!
PMsoGFnKtKCHU2pkzbg=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8250

"Danny Richardson" <n_group@k6mhe.com> wrote in message
news:dvr5o256mf6m5jvuqih4s7uqmradlscm85@4ax.com...
>>
>
> I have not received a reply from Ray at QRO and, no, he has no
> documentation for the HF-1250.
>
> Besides the HF-1250 using only one tube there are other differences
> between the HF-2500 and HF-1250.
>
> Thanks for the suggestions.
>
> vry 73,
> Danny, K6MHE
>

Possible changes to some components for current and power increase.

One tube designs are not always economical -- when the cost to add an
additional tube and parts changes is small (on a unit cost basis) -- you
already have the case, meters, transformer (possibly a bit higher current
ratings) and relays. IF the specific tube used in the amplifier is

inexpensive -- that is usually the deciding factor.

```
From -8102124124566809828
X-Google-Thread: fc2a5,de4ea56a49539b4
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 15 Dec 2006 17:54:25 -0600
From: Danny Richardson <n_group@k6mhe.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Command Technologies HF-1250 Documentation?
Date: Fri, 15 Dec 2006 15:54:25 -0800
Message-ID: <s0d6o2l8j6macmta574hudbolp150p188n@4ax.com>
References: <7lntn25ft8hn2p1gpitjmgdvtrq0t5kjse@4ax.com>
<oJCdneWGS_elXhzYnZ2dnUVZ_vqpnZ2d@comcast.com>
<q4d5o29unnhdc40u4j29ktpmv1rldmiu8u@4ax.com>
<BpidnUuBsYpyJh_YnZ2dnUVZ_rOqnZ2d@comcast.com>
<s5p5o25vvqdc9aek2p4adrhjotjmjqb1cm@4ax.com> <-
Kqdnc9tPZNldB_YnZ2dnUVZ_silnZ2d@comcast.com>
<dvr5o256mf6m5jvuqih4s7uqmradlscm85@4ax.com> <UMmdnd-
ifcsJiR7YnZ2dnUVZ_ompnZ2d@comcast.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 48
NNTP-Posting-Host: 68.64.59.124
X-Trace: sv3-
bUu4jvJqGB8H1WeGKr4rxcHKG34leYp0w9hbuANJNBm80kFf7q3UrktlxLYvgNutTOERz1LJu+G7XuR!
l4zSFFtmCDk0uvNONDAPeY+z2GHO/Fd48KAkng6LA/6nNdYoSB+el0qEV2wyKrj0OsTnOSI+lzPM!
AOQzwiO7jJBYIwOpdiG/
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8251
```

On Fri, 15 Dec 2006 15:33:03 -0600, "w9gb" <spam_protect@arrl.net>
wrote:

>"Danny Richardson" <n_group@k6mhe.com> wrote in message
>news:dvr5o256mf6m5jvuqih4s7uqmradlscm85@4ax.com...
>>>
>>
>> I have not received a reply from Ray at QRO and, no, he has no

>> documentation for the HF-1250.
>>
>> Besides the HF-1250 using only one tube there are other differences
>> between the HF-2500 and HF-1250.
>>
>> Thanks for the suggestions.
>>
>> vry 73,
>> Danny, K6MHE
>>
>
>Possible changes to some components for current and power increase.

This is veering off the question, but will make a couple of comments
and then drop it.

I've been able, thus far, to determine that the band switch is
different (the HF 1250's is better!) the tank coils are different and
also is the 4:1 transformer (location and size). Oddly enough, the
power supply is the same! The HF 1250 power supply really loafs along.
>
>One tube designs are not always economical -- when the cost to add an
>additional tube and parts changes is small (on a unit cost basis) -- you
>already have the case, meters, transformer (possibly a bit higher current
>ratings) and relays. IF the specific tube used in the amplifier is
>inexpensive -- that is usually the deciding factor.

Another factor, for me, was I don't want to spend the $$$ to put in a
220VAC service and for amps running 500-750 watts (we're talking key
down here) the single tube amp is a good choice. There's more than
just the cost of the amp itself involved.

Now back to my original question.

73,
Danny, K6MHE

>
>

From 242204682870866842
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!n67g2000cwd.googlegroups.com!not-for-mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave UPDATE
Date: 15 Dec 2006 22:33:37 -0800
Organization: http://groups.google.com

Lines: 38
Message-ID: <1166250816.986381.162420@n67g2000cwd.googlegroups.com>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
   <1166031794.175793.239780@n67g2000cwd.googlegroups.com>
   <slrneo0lat.1b3.gsm@cable.mendelson.com>
   <1166068845.588307.154530@f1g2000cwa.googlegroups.com>
NNTP-Posting-Host: 207.69.137.40
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166250823 30856 127.0.0.1 (16 Dec 2006 06:33:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 16 Dec 2006 06:33:43 +0000 (UTC)
In-Reply-To: <1166068845.588307.154530@f1g2000cwa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n67g2000cwd.googlegroups.com; posting-host=207.69.137.40;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8253

ray13 wrote:
> Heck your hot mail dont work my links dont work. so try nj7p's tube
> data web page I'm sure it has a link to an RCA tube manual. In the back
> of the RCA tube manual is many a circuit an the older the manaul the
> better the tube circuits are or were. I recall a converter or two back
> in the day, all tube radio, on a points/distributor ignition system
> car, yeah vibrators those were the days. You know the trick to clean
> the contacts on a vibrator 100 watt light bulb in series with the coil
> and plug it into the mains

Sounds good, I'll have to check it out.

>
> Then just about the time tung sol invented the 12VDC plate voltage
> tube, transistors took over.
> I even know how to make a tube out of a dual filament car taillight.
> Now there's a real tube.

I wouldn't mind knowing how to do that myself. One of the really good
radio books from Lindsay tells how to make your own vacuum tubes and
transistors. I'm thinking of picking that up as well.

>
> ray
> N8ZU/e0
>
> Hey I like to know what country has a code requirement to get your
> ticket.

I've been told that "real" hams know code. For now, I'm mainly
interested in listening to news from outside the US and possibly any

Civil Defense frequencies. Would definitely be interested in listening
into any frequency that plays old time radio programs.

Ralph Glatt

From 4908879109021243994
X-Google-Thread: fc2a5,c5e46327b03f24dc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 16 Dec 2006 01:02:58 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <izigh.2492$yC5.2427@newssvr27.news.prodigy.net>
<1166164330.813491.198600@79g2000cws.googlegroups.com>
Subject: Re: Looking for a SL6440 Mixer IC
Date: Sat, 16 Dec 2006 01:03:00 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <kJudncmXoJ6_Bx7YnZ2dnUVZ_qGjnZ2d@comcast.com>
Lines: 29
NNTP-Posting-Host: 71.228.3.96
X-Trace: sv3-
oX5MpBvbqbMziEK7RWg5GB2GLlPUpRMPD5XHm+sSw3AUuBow1e6GpGgso32ScYoptMI2RUcUsjHYyRS!
PbvZwXO2fCemaDnhjIegu8Ky5AsjkvsJrgRkT/LYEjh6h0ntbU6895u6F3UvOwAkDAAjCDnQ8svB!
OC32YwS/T4vX
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8254

There was a place on the East coast, maybe in New York, that was selling
them for about 90 dollars for a rail of 25 of them.
I don't have the name of them anymore. Some of the other places were selling
them for 225 dollars per rail.

Pete

<sailtamarack@yahoo.ca> wrote in message
news:1166164330.813491.198600@79g2000cws.googlegroups.com...
> You might find them here: http://www.quest-comp.com/
>

```
> I found them by using this search engine:
> http://www.findchips.com/avail
>
> Good luck - Plessey chips are a rare bird now - Roger
>
>
>
> Sbc News wrote:
>> I know these have out of production for a while.  If anyone knows of a
>> source for a dozzen or so, I would be greatful I you would share your
>> information with me.
>>
>> Thanks,
>> Emil
>> W9NM
>




From 6533673404455914815
X-Google-Thread: fcc6e,2ae97e7b90a2c8dc
X-Google-Thread: 108122,2ae97e7b90a2c8dc
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Thread: 10bf43,2ae97e7b90a2c8dc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news.alt.net
From: "Ron" <anon@anon>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy
Subject: Re: A moment of silence my friends for a silent key.
Date: Sat, 16 Dec 2006 03:31:34 -0500
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 15
Message-ID: <ht0ea.irb.17.1@news.alt.net>
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Xref: g2news2.google.com rec.radio.amateur.antenna:23099
rec.radio.amateur.equipment:7564 rec.radio.amateur.homebrew:8255
rec.radio.amateur.policy:58431


"Vince Fiscus, KB7ADL" <radiation17@bresnan.net> wrote in message
news:gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com...
> Ham radio died today.
>
> Sorry for all the brow beating, it won't be happening anymore.
>
```

> 73 de KB7ADL, AKA Slow Code

If this is not a forgery, and if you are indeed Slow Code, you will be missed.
Carry on, buddy.

```
From -5477698798821499436
X-Google-Thread: fcc6e,2ae97e7b90a2c8dc
X-Google-Thread: 108122,2ae97e7b90a2c8dc
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Thread: 10bf43,2ae97e7b90a2c8dc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l12g2000cwl.googlegroups.com!not-for-
mail
From: "Denny" <k8do@mailblocks.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy
Subject: Re: A moment of silence my friends for a silent key.
Date: 16 Dec 2006 05:20:32 -0800
Organization: http://groups.google.com
Lines: 8
Message-ID: <1166275232.743156.142490@l12g2000cwl.googlegroups.com>
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
   <ht0ea.irb.17.1@news.alt.net>
NNTP-Posting-Host: 24.247.246.156
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166275238 30546 127.0.0.1 (16 Dec 2006 13:20:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 16 Dec 2006 13:20:38 +0000 (UTC)
In-Reply-To: <ht0ea.irb.17.1@news.alt.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.8)
Gecko/20061025 Firefox/1.5.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l12g2000cwl.googlegroups.com; posting-host=24.247.246.156;
   posting-account=GhrC0g0AAACdrABM-CDx8Fhs5lKJR5q2
Xref: g2news2.google.com rec.radio.amateur.antenna:23109
rec.radio.amateur.equipment:7566 rec.radio.amateur.homebrew:8256
rec.radio.amateur.policy:58434
```

Mr. SC... I agree with your premise that losing the code requirement will operate to the detriment of ham radio in the long term...
I do not agree with your premise that continuous spamming of multiple groups with garbage postings did anything except make you feel important... Good riddance...

denny / k8do

```
From 9173073562562173319
X-Google-Thread: fc2a5,312b4bf58e0307e5,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!newsfeed.freenet.de!
feeder.news-service.com!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-08!sn-ams!
sn-feed-ams-02!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-
for-mail
From: "rcklfrtz" <rcklfrtz@socket.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Antennae base
Date: Sat, 16 Dec 2006 07:43:02 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12o7tv8o2hvm2b8@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 5
Xref: g2news2.google.com rec.radio.amateur.homebrew:8257
```

Could use some help please. I have a tip over used tower. I want to install it and don't know what depth and width the hole has to be and do I have to use rebar. Can someone help me? Thanks.

```
From -7452583187424447358
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave UPDATE
Date: 16 Dec 2006 09:01:41 -0600
Organization: Kansas State University
Lines: 12
Message-ID: <em11ol$cq2@unix1.cc.ksu.edu>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
<1166031794.175793.239780@n67g2000cwd.googlegroups.com>
<slrneo0lat.1b3.gsm@cable.mendelson.com>
<1166068845.588307.154530@f1g2000cwa.googlegroups.com>
<1166250816.986381.162420@n67g2000cwd.googlegroups.com>
NNTP-Posting-Host: unix1.cc.ksu.edu
```

X-Trace: cnn.cns.ksu.edu 1166281307 10199 129.130.12.3 (16 Dec 2006 15:01:47 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Sat, 16 Dec 2006 15:01:47 +0000 (UTC)
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8258

>> I even know how to make a tube out of a dual filament car taillight.
>> Now there's a real tube.

I, too, would like to see a circuit which demonstrates that "tube"
did something useful. Is it just a diode (i.e., rectifier), or
can it also amplify?

--
--Myron A. Calhoun.
Five boxes preserve our freedoms: soap, ballot, witness, jury, and cartridge
NRA Life Member and Rifle, Pistol, & Home Firearm Safety Certified Instructor
Certified Instructor for the Kansas Concealed-Carry Handgun license

From -3355656007822331806
X-Google-Thread: fc2a5,312b4bf58e0307e5
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!newshub.sdsu.edu!
headwall.stanford.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antennae base
Date: 16 Dec 2006 09:18:53 -0600
Organization: Kansas State University
Lines: 38
Message-ID: <em12ot$d3e@unix1.cc.ksu.edu>
References: <12o7tv8o2hvm2b8@corp.supernews.com>
NNTP-Posting-Host: unix1.cc.ksu.edu
X-Trace: cnn.cns.ksu.edu 1166282337 10786 129.130.12.3 (16 Dec 2006 15:18:57 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Sat, 16 Dec 2006 15:18:57 +0000 (UTC)
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8259

"rcklfrtz" <rcklfrtz@socket.net> writes:
>Could use some help please. I have a tip over used tower. I want to install
>it and don't know what depth and width the hole has to be and do I have to
>use rebar. Can someone help me? Thanks.

I am NOT an expert, but I can tell you what I did for the base of
my 20-foot (when lowered) tip-over/crank-up tower: I purchased
an 8-inch diameter 6-foot long pole ("corner fence post") treated
against termites, cut it in half, sank the two halves side by side
until only 3-4 inches showed above ground, placed a five-sided box
made of treated 2-by boards (2x4 around the sides and probably (I
don't remember) a 2x12 on top) over the top, bolted the sides to

the posts, and mounted the base on the top with some long bolts straight through the 2x12 and down into the posts.

The above base is about a foot away from an outer corner of my front porch, and above that porch is an upper deck with a 4-foot-high railing (railing is maybe 14 feet above the tower base). My tower came with a kinda-Y-shaped gizmo probably made to attach to the side of a house to hold the tower upright, so I attached that gizmo to the railing (after reforcing the railing both directions).

I use a spur-geared (? May not be the right word, but it MUST be cranked to raise AND lower) crank gizmo (my brain must be giving out - I can't think of the correct words!) and long cable for lifting and lowering the tower (always when the tower is cranked to its lowest position, of course).

Installable by one person, no concrete, no rebar, not "engineered" in the usual sense, but I live in the country with no houses nearby so I didn't have to follow any "code", and I feel quite comfortable with it. (If I didn't, I wouldn't have done it that way!)

--
--Myron A. Calhoun.
Five boxes preserve our freedoms: soap, ballot, witness, jury, and cartridge
NRA Life Member and Rifle, Pistol, & Home Firearm Safety Certified Instructor
Certified Instructor for the Kansas Concealed-Carry Handgun license

From -5211448412449378717
X-Google-Thread: fcc6e,2ae97e7b90a2c8dc
X-Google-Thread: 108122,2ae97e7b90a2c8dc
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Thread: 10bf43,2ae97e7b90a2c8dc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j72g2000cwa.googlegroups.com!not-for-mail
From: hot-ham-and-cheese@hotmail.com
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: A moment of silence my friends for a silent key.
Date: 16 Dec 2006 09:03:49 -0800
Organization: http://groups.google.com
Lines: 17
Message-ID: <1166288629.682362.273790@j72g2000cwa.googlegroups.com>
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
NNTP-Posting-Host: 4.224.231.92
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1166288636 29071 127.0.0.1 (16 Dec 2006 17:03:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 16 Dec 2006 17:03:56 +0000 (UTC)

```
In-Reply-To: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j72g2000cwa.googlegroups.com; posting-host=4.224.231.92;
   posting-account=mMyuWQ0AAAANPpX1wK2NRuuQfAjm_kIo
Xref: g2news2.google.com rec.radio.amateur.antenna:23119
rec.radio.amateur.equipment:7568 rec.radio.amateur.homebrew:8260
rec.radio.amateur.policy:58449
```

Vince Fiscus, KB7ADL wrote:

> Ham radio died today.
>
> Sorry for all the brow beating, it won't be happening anymore.
>
> 73 de KB7ADL, AKA Slow Code

Awww, c'mon Slow!

To use the vernacular of the left, "It was the Exam, stupid." The mode hasn't changed... hell, it hasn't changed since the 1840's! What needs to change is your attitude about how to entice folks into the Morse Code fold. Since the government stick is gone, you'll have to sell Morse Code on its merits. And here's one last hint, you'll attract more folks if you use sugar. Good Luck.

```
From 3888222406468143527
X-Google-Thread: fcc6e,2ae97e7b90a2c8dc
X-Google-Thread: 108122,2ae97e7b90a2c8dc
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Thread: 10bf43,2ae97e7b90a2c8dc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!news.glorb.com!
nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy
Subject: cut out the Bullshit or turn in your license and imporve the service SC
Date: Sat, 16 Dec 2006 12:54:22 -0500
Message-ID: <mjc8o21aejleg93ihviietqngd6jqa6003@4ax.com>
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 11
NNTP-Posting-Date: 16 Dec 2006 16:59:57 GMT
```

X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:23125
rec.radio.amateur.equipment:7570 rec.radio.amateur.homebrew:8261
rec.radio.amateur.policy:58462

On Fri, 15 Dec 2006 22:31:31 -0600, "Vince Fiscus, KB7ADL"
<radiation17@bresnan.net> wrote:

>Ham radio died today.
>
>Sorry for all the brow beating, it won't be happening anymore.
>
>73 de KB7ADL, AKA Slow Code

bullshit
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -1628147957901545210
X-Google-Thread: fc2a5,312b4bf58e0307e5
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!not-for-mail
From: Dr. Anton T. Squeegee <SpammersBlow@dev.null>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antennae base
Date: Sat, 16 Dec 2006 10:03:30 -0800
Message-ID: <MPG.1fedd4d1f66b27e89896fa@192.168.42.197>
References: <12o7tv8o2hvm2b8@corp.supernews.com>
Organization: Blue Feather Technologies
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-15"
Content-Transfer-Encoding: 7bit
X-Newsreader: MicroPlanet Gravity v2.60
Cache-Post-Path: gutenberg.bluefeathertech.com!unknown@seleth.bluefeathertech.com
X-Cache: nntpcache 3.0.2 (see http://www.nntpcache.com/)
Cache-Post-Path: bubbleator.drizzle.com!unknown@gutenberg.bluefeathertech.com
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
Lines: 18
X-Complaints-To: abuse@csolutions.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8262

In article <12o7tv8o2hvm2b8@corp.supernews.com>, rcklfrtz@socket.net
(known to some as rcklfrtz) scribed...

> Could use some help please. I have a tip over used tower. I want to install
> it and don't know what depth and width the hole has to be and do I have to

> use rebar. Can someone help me? Thanks.

Contact the tower manufacturer (it'll probably be Glenn Martin or Rohn). They will be happy to give you the specs.

Happy raising.

--
Dr. Anton T. Squeegee, Director, Dutch Surrealist Plumbing Institute
(Known to some as Bruce Lane, KC7GR)
http://www.bluefeathertech.com -- kyrrin a/t bluefeathertech d-o=t calm
"Salvadore Dali's computer has surreal ports..."

```
From 6403457650353430790
X-Google-Thread: fcc6e,2ae97e7b90a2c8dc
X-Google-Thread: 108122,2ae97e7b90a2c8dc
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Thread: 10bf43,2ae97e7b90a2c8dc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!post01.iad01!
roadrunner.com!not-for-mail
Message-ID: <458455D4.6070709@coboxincORORATED.com>
Date: Sat, 16 Dec 2006 15:23:48 -0500
From: Christopher Cox <chrisTOPHERcOX@coboxincORORATED.com>
User-Agent: Mozilla Thunderbird 1.0.7 (Windows/20050923)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy
To:  Mark@kb9rqz.aprs
Subject: Re: cut out the Bullshit or turn in your license and imporve the
 service SC
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
<mjc8o21aejleg93ihviietqngd6jqa6003@4ax.com>
In-Reply-To: <mjc8o21aejleg93ihviietqngd6jqa6003@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 28
Organization: Road Runner High Speed Online http://www.rr.com
X-Complaints-To: abuse@rr.com
Xref: g2news2.google.com rec.radio.amateur.antenna:23129
rec.radio.amateur.equipment:7571 rec.radio.amateur.homebrew:8263
rec.radio.amateur.policy:58482
```

Mark@kb9rqz.aprs wrote:
> On Fri, 15 Dec 2006 22:31:31 -0600, "Vince Fiscus, KB7ADL"
> <radiation17@bresnan.net> wrote:
>

>
>>Ham radio died today.
>>
>>Sorry for all the brow beating, it won't be happening anymore.
>>
>>73 de KB7ADL, AKA Slow Code
>
>
> bullshit
> http://kb9rqz.blogspot.com/
>

I am actually surprised to find out it was/is Vince. He's an O.K. guy, puts in volunteer time and is very knowledgeable. While I firmly believe this alter personality detracted from Amateur radio (Slow Code), Vince has done other things to advance it.

Although I know Vince is very pro Morse code, I am having trouble believing it was him (being Mr. Slow Code)

If it was/is him, turning in his license would only be a detriment to the community IMHO.

Chris KC8FRJ

From -1833746794034997732
X-Google-Thread: fcc6e,2ae97e7b90a2c8dc
X-Google-Thread: 108122,2ae97e7b90a2c8dc
X-Google-Thread: fc2a5,2ae97e7b90a2c8dc
X-Google-Thread: 10bf43,2ae97e7b90a2c8dc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: cut out the Bullshit or turn in your license and imporve the service SC
Date: Sat, 16 Dec 2006 16:44:51 -0500
Message-ID: <h4q8o21qaksmrnjfl979ftpvhkdr08tmr9@4ax.com>
References: <gaadnUExUrY-6x7YnZ2dnUVZ_oWdnZ2d@bresnan.com>
<mjc8o21aejleg93ihviietqngd6jqa6003@4ax.com>
<458455D4.6070709@coboxincORORATED.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 38
NNTP-Posting-Date: 16 Dec 2006 20:50:22 GMT
X-Complaints-To: abuse@teranews.com

```
Xref: g2news2.google.com rec.radio.amateur.antenna:23134
rec.radio.amateur.equipment:7572 rec.radio.amateur.homebrew:8264
rec.radio.amateur.policy:58486

On Sat, 16 Dec 2006 15:23:48 -0500, Christopher Cox
<chrisTOPHERcOX@coboxincORORATED.com> wrote:

>Mark@kb9rqz.aprs wrote:
>> On Fri, 15 Dec 2006 22:31:31 -0600, "Vince Fiscus,  KB7ADL"
>> <radiation17@bresnan.net> wrote:
>>
>>
>>>Ham radio died today.
>>>
>>>Sorry for all the brow beating, it won't be happening anymore.
>>>
>>>73 de KB7ADL, AKA Slow Code
>>
>>
>> bullshit
>> http://kb9rqz.blogspot.com/
>>
>
>I am actually surprised to find out it was/is Vince. He's an O.K. guy,
>puts in volunteer time and is very knowledgeable. While I firmly believe
>this alter personality detracted from Amateur radio (Slow Code),  Vince
>has done other things to advance it.

one can only judge by ones experences as far as I am concerned he is
slime
>
>Although I know Vince is very pro Morse code, I am having trouble
>believing it was him (being Mr. Slow Code)
>
>If it was/is him, turning in his license would only be a detriment to
>the community IMHO.

we can do without any ham that behaves as Slow does and without any
ham that would claim to be slow code wether he is or not
>
>Chris KC8FRJ
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From 7250284375156737834
X-Google-Thread: fc2a5,d68038fa6414efcb,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!hwmnpeer01.lga!
```

news.highwinds-media.com!hw-filter.phx!newsfe07.phx.POSTED!53ab2750!not-for-mail
From: "Caveat Lector" <CL@nowhere.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Gee I wish they still had Electronic kits to build !
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <tcWeh.32268$xM4.6177@newsfe07.phx>
Date: Sun, 10 Dec 2006 08:02:33 -0800
NNTP-Posting-Host: 72.197.12.245
X-Complaints-To: admin@cox.net
X-Trace: newsfe07.phx 1165766553 72.197.12.245 (Sun, 10 Dec 2006 09:02:33 MST)
NNTP-Posting-Date: Sun, 10 Dec 2006 09:02:33 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:8164

Well they do.
Over 76 Electronic Kit Companies
With hundreds of Electronic Kits
All listed and link checked at URL:
http://ac6v.com/kits.htm

Keep that soldering iron tinned
73 From CL

From 1365490799290456745
X-Google-Thread: 10ed5f,dc19b896dd89980a
X-Google-Thread: 114a57,dc19b896dd89980a
X-Google-Thread: f7796,dc19b896dd89980a
X-Google-Thread: fc2a5,dc19b896dd89980a
X-Google-Attributes: gid10ed5f,gid114a57,gidf7796,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 10 Dec 2006 10:05:58 -0600
From: maxfoo <maxfoo@punkass.com>
Newsgroups: alt.ham-radio,alt.ham-radio.hf,alt.ham-radio.morse,rec.radio.amateur.homebrew
Subject: Re: James Kim: new vs old tech
Date: Sun, 10 Dec 2006 11:05:58 -0500
Organization: ...
Message-ID: <00con2dk33ogb5jjvggbsnekavfe8odtik@4ax.com>
References: <RqmdneZhJOJaFeXYnZ2dnUVZ_vCdnZ2d@comcast.com>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

```
Content-Transfer-Encoding: 7bit
Lines: 30
NNTP-Posting-Host: 71.232.171.160
X-Trace:
sv3-83HRpQbqrsH1OGnN4WUML0mjttLlqRGKLlBZ3EJcUzaFdWfW0+n3NHY3PuLf10jp1QEibcGK9nmCIa
f!lxz4Ds7YU8kcQ9RdnKRSU9j8EWJqIhJ75x1kveZ/5uBzshUqMZYSPEpxEM83sc/vMIL+1ZqOzDC4!
uuXWzlNc9LLY1So=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com alt.ham-radio:1436 alt.ham-radio.hf:630 alt.ham-
radio.morse:309 rec.radio.amateur.homebrew:8165
```

On Thu, 07 Dec 2006 15:33:59 -0600, notbob <notbob@nothome.com> wrote:

>No doubt many are saddened by the senseless loss of James Kim, the
>family man that perished in the mountains of Western Oregon early this
>week. I think what makes it all the more tragic is that here was a
>person who was on the cutting edge of all the latest and greatest high
>tech computer and communications technology. Blackberries, photo
>cellphones, wifi PDA's and laptops, etc. I'm stunned a person in such
>a high tech vector could become so completely isolated in such a short
>distance from the mainstream.
>
>This worries me because it highlights the shortcomings of all this new
>high tech gimcrackery. As I understand it, even satellite cellphones
>require a service provider with a nearby uplink antenna. So, this
>brings up my question, as a non ham:
>
>How long do you think it would have taken James, or anyone in that
>situation, to make contact with outside help and get him and his
>family out of there if he'd had something like a basic QRP tranceiver
>and antenna and knew how to use it?
>
>Any thoughts you may have on this issue would be appreciated.
>
>nb

Great idea setting the tires on fire,but they should of started a huge forest fire in the area. going to prison for starting a forest fire is way better than dead!

```
From -1237006936952337869
X-Google-Thread: fc2a5,c4c25aab4d213447
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
```

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna in the attic question
Date: Sun, 10 Dec 2006 08:10:37 -0800
Message-ID: <44con2p3ehdtc5lo9uvm11sqf8veemnb6g@4ax.com>
References: <1165765343.577779.158140@f1g2000cwa.googlegroups.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node67-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1165754177 66.52.61.67 (10 Dec 2006 07:36:17 -0500)
Lines: 26
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.67
Path: g2news2.google.com!news4.google.com!news.glorb.com!bigfeed2.bellsouth.net!
news.bellsouth.net!hwmnpeer01.phx!news.highwinds-media.com!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8166

ORIGINAL MESSAGE:

On 10 Dec 2006 07:42:23 -0800, "AndyS" <andysharpe@juno.com> wrote:

>   Having made dozens of ham antennae over the last 40 years in
>configurations that probably violate the laws of physics and having had them
work, I,
>personally, haven't found that such a difference in the antenna placement makes a
>hill of beans worth of REAL difference (no pun). But a lot of guys here
>have been doing this for 40 years also, and I'd really like to see what anyone
>has to say about it.....

------------ REPLY FOLLOWS ------------

If the antennas you're talking about really did work, you did not
violate any laws of physics, I can assure you. :-)

I operated with in-attic antennas for years and they do work
surprisingly well. I earned DXCC with 100 watts and an attic dipole in
a matter of a few months.

Go for it.

Bill, W6WRT

From 5001318386499631921
X-Google-Thread: fc2a5,77a8abd4a534b187
X-Google-Thread: 10bf43,77a8abd4a534b187
X-Google-Thread: 114aac,7da1d4d770f90e92
X-Google-Thread: 1109af,77a8abd4a534b187

```
X-Google-Attributes: gidfc2a5,gid10bf43,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.shortwave,rec.radio.
swap
Subject: Re: Call for Action-CW Advocacy organization
Date: Sun, 10 Dec 2006 08:11:05 -0800
Message-ID: <eccon2p141l7j6f5e5itt4nvan7rsmoeae@4ax.com>
References: <12ngg4j105cjp01@corp.supernews.com> <telamon_spamshield-
F6A0EB.18540107122006@newsclstr02.news.prodigy.com>
<HTIeh.8314$sf5.2493@newsread4.news.pas.earthlink.net>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node67-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1165754205 66.52.61.67 (10 Dec 2006 07:36:45 -0500)
Lines: 8
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.67
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!
in.100proofnews.com!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8167
rec.radio.amateur.policy:57406 rec.radio.shortwave:60926 rec.radio.swap:10592
```

Please folks, do not reply to these off topic posts.

If these idiots never get any replies, they will eventually give up
and go away.

Thanks,

Bill, W6WRT

```
From -3346055597252539321
X-Google-Thread: fc2a5,41f090f79cf9b4cd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Super Glue doesn't work any more
Date: Sun, 10 Dec 2006 08:12:31 -0800
Message-ID: <gecon2hv9nl00a43gocfvi0s43a9i7aobh@4ax.com>
References: <1162945128.879720@newsreg.cos.agilent.com>
<1162992599.838749.153980@m7g2000cwm.googlegroups.com>
<1163118766.320439@newsreg.cos.agilent.com> <r0leh.39$495.3@trnddc06>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
```

```
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node67-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1165754291 66.52.61.67 (10 Dec 2006 07:38:11 -0500)
Lines: 13
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.67
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!
hwmnpeer01.phx!news.highwinds-media.com!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8168
```

ORIGINAL MESSAGE:

On Fri, 08 Dec 2006 21:43:51 GMT, "west" <restccq2@verizon.net> wrote:

>Now they serve their coffee at a lower temperature.
>Doesn't taste as good.

------------ REPLY FOLLOWS ------------

But you don't have to eat that hospital food either. :-)

Bill, W6WRT

```
From -6490919590542587441
X-Google-Thread: fc2a5,4ddcaa4fd0d436ff
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: What's REALLY Going to Happen When the Code Test Drops
Date: Sun, 10 Dec 2006 08:14:22 -0800
Message-ID: <uhcon2pdpkde9l2r013ud8r3s28kb7a8vg@4ax.com>
References: <ga2n2.uro.17.1@news.alt.net>
<h3jkm21dmsoreokn216n16cahqb2f62ds3@4ax.com>
<1164670674.764624.21590@f16g2000cwb.googlegroups.com>
<t5vmm21c7vctu5p1sgd4u0u7tc0s9l7j62@4ax.com>
<1164682092.492069.211240@l39g2000cwd.googlegroups.com>
<1165407544.057957.176440@n67g2000cwd.googlegroups.com>
<Nfoeh.8470$ql2.7534@newsread3.news.pas.earthlink.net>
<7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node67-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1165754403 66.52.61.67 (10 Dec 2006 07:40:03 -0500)
Lines: 8
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.67
```

Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-out.readnews.com!news-
xxxfer.readnews.com!in.100proofnews.com!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8169

Please folks, do not reply to these off topic posts.

If these idiots never get any replies, they will eventually give up
and go away.

Thanks,

Bill, W6WRT

From -141681882660077302
X-Google-Thread: fc2a5,4ddcaa4fd0d436ff
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 10 Dec 2006 10:20:32 -0600
From: maxfoo <maxfoo@punkass.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: What's REALLY Going to Happen When the Code Test Drops
Date: Sun, 10 Dec 2006 11:20:31 -0500
Organization: ...
Message-ID: <trcon2dm5n67sfsad95ad6k1sj58hlqpim@4ax.com>
References: <ga2n2.uro.17.1@news.alt.net>
<h3jkm21dmsoreokn216n16cahqb2f62ds3@4ax.com>
<1164670674.764624.21590@f16g2000cwb.googlegroups.com>
<t5vmm21c7vctu5p1sgd4u0u7tc0s9l7j62@4ax.com>
<1164682092.492069.211240@l39g2000cwd.googlegroups.com>
<1165407544.057957.176440@n67g2000cwd.googlegroups.com>
<Nfoeh.8470$ql2.7534@newsread3.news.pas.earthlink.net>
<7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com>
<uhcon2pdpkde9l2r013ud8r3s28kb7a8vg@4ax.com>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 14
NNTP-Posting-Host: 71.232.171.160
X-Trace: sv3-
JWnW9KIh8BkfG+QUIfsJtdH9hvV2I34HmVPQ+7r1UsTr28Gx2gbUvajM86gRSyv7nfUBLRT6XKn3neV!
OceuKhV/BNTekzAdii9KRidulroy0y5ieO/lE8d5TOApJEWl9NPVfV58gNrteKst7kuoOh6GM/Va!
gJmB0u7LNX9rp0M=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly

```
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8170

On Sun, 10 Dec 2006 08:14:22 -0800, Bill Turner <noway@nowhow.com> wrote:

>Please folks, do not reply to these off topic posts.
>
>If these idiots never get any replies, they will eventually give up
>and go away.
>
>Thanks,
>
>Bill, W6WRT

Hmmm, violating your own rule.




From 4759453578727415533
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone.austin.rr.com!news.rr.com!
tornado.texas.rr.com.POSTED!53ab2750!not-for-mail
From: "U-Know-Who" <no-one@nowhere.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net>
Subject: Re: Do no-code hams wipe their butts?
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <F4Xeh.4564$qp1.2522@tornado.texas.rr.com>
Date: Sun, 10 Dec 2006 17:02:29 GMT
NNTP-Posting-Host: 67.10.92.242
X-Complaints-To: abuse@rr.com
X-Trace: tornado.texas.rr.com 1165770149 67.10.92.242 (Sun, 10 Dec 2006 11:02:29
CST)
NNTP-Posting-Date: Sun, 10 Dec 2006 11:02:29 CST
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6662
rec.radio.amateur.homebrew:8171 rec.radio.amateur.policy:57410
rec.radio.scanner:8260
```

"Slow Code" <my.mail@no.spam> wrote in message
news:JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net...
> If they're to lazy to learn CW for good radio skills, they might be too
> lazy to use toilet paper for good hygiene.
>
> SC

Well SC, just open the stall next time you're on duty at your job of
restroom attendant at the hamfest. You'll have your answer. And I ain't
tippin you for that damn "Brut" cologne you hawk!

```
From -3125035404458193625
X-Google-Thread: fc2a5,77a8abd4a534b187
X-Google-Thread: 10bf43,77a8abd4a534b187
X-Google-Thread: 114aac,7da1d4d770f90e92
X-Google-Thread: 1109af,77a8abd4a534b187
X-Google-Attributes: gidfc2a5,gid10bf43,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.shortwave,rec.radio.
swap
Subject: Re: Call for Action-CW Advocacy organization
Date: Sun, 10 Dec 2006 12:45:03 -0500
Message-ID: <ishon29dv6lhmab2mvfs00lla9ehoe5oni@4ax.com>
References: <12ngg4j105cjp01@corp.supernews.com> <telamon_spamshield-
F6A0EB.18540107122006@newsclstr02.news.prodigy.com>
<HTIeh.8314$sf5.2493@newsread4.news.pas.earthlink.net>
<eccon2p141l7j6f5e5itt4nvan7rsmoeae@4ax.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 14
NNTP-Posting-Date: 10 Dec 2006 16:50:31 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8172
rec.radio.amateur.policy:57420 rec.radio.shortwave:60938 rec.radio.swap:10601
```

On Sun, 10 Dec 2006 08:11:05 -0800, Bill Turner <noway@nowhow.com>
wrote:

>Please folks, do not reply to these off topic posts.
>
>If these idiots never get any replies, they will eventually give up
>and go away.
>

>Thanks,
>
>Bill, W6WRT

it is particaaulrly off topic
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

```
From 5022320315470894302
X-Google-Thread: fc2a5,c4c25aab4d213447
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 10 Dec 2006 12:18:38 -0600
Date: Sun, 10 Dec 2006 19:18:26 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla Thunderbird 1.0.2 (X11/20050322)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna in the attic question
References: <1165765343.577779.158140@f1g2000cwa.googlegroups.com>
In-Reply-To: <1165765343.577779.158140@f1g2000cwa.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <xYCdnctEv6Dj0uHYnZ2dnUVZ8qm3nZ2d@pipex.net>
Lines: 30
NNTP-Posting-Host: 71.107.26.158
X-Trace: sv3-mIEY0N60NM+vNrrMa8AV1WYAhcDyglAShl+4KPMVaUcjCOrkf0g7osHgS+/
hsNYTky02QfgMfWjO6mY!z0qfKJpaTldguljc72Xf9mx2ERHvvH5shFNDNgKMps4YIK5W5LK/
PjHwzXRA97AYdkwnBSlNLlgj!W+wFg72f2cJuayFHqfVraVWMnQ==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8173
```

>   I would like to hear some discussion/advice on the feasibility of
> putting
> an antenna for, say, 30m in the attic versus on top of the roof...
>
>   Here is the situation :
>   The roof peak of my house is about 50 feet and is straight. Given
> the
> need for a dipole which is 44 feet wide, it can be mounted in either of

> two
> places:

==

Andy , You didn't provide the shape of your roof space eg width at loft bottom and whether there is any metal around (apart from nails/screws etc).   For an HF roof space antenna I would recommend a wire loop as much as possible away from any metal and with total loop length exceeding the the length of the largest wavelenght you wish to operate on. So in your case a loop of > 10m or say 35 ft would be adequate

A square would be the optimum ,but a 'wide rectangular' is acceptable. Feed the loop with any balanced feeder ,twinlead electrical cable'(75 Ohms ?) or 300 -450 Ohms ribbon or 2 wires with insulator spacers.

It would be best to feed the loop somewhere near the middle of a side

You obviously need a balanced tuner/matching unit ,but might get away with a simple current balun

Good luck

Frank   KN6WH / GM0CSZ

```
From 2907093860695666896
X-Google-Thread: fc2a5,c4c25aab4d213447
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe07.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1165765343.577779.158140@f1g2000cwa.googlegroups.com>
Subject: Re: Antenna in the attic question
Lines: 25
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <7kZeh.2677$%z.481@newsfe07.lga>
X-Trace:
fjmkffdeidnncplekannfilpcpbbolnmcknmacimfdphnbopnicfceledepkikoolhlefpnpglhfdcnhmp
jopjjbpmhdpikipkklaoondfgkbgigmebbcjnpbfmiciaobcnegbbojhamihnb
NNTP-Posting-Date: Sun, 10 Dec 2006 12:35:31 MST
Date: Sun, 10 Dec 2006 14:35:27 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8174
```

"AndyS" <andysharpe@juno.com> wrote in message news:1165765343.577779.158140@f1g2000cwa.googlegroups.com...

> 1) Just above the roof peak, straight along it, about 1 foot above.

Is the ridge vent metal? Usually it is covered with shingles, but sometimes it is aluminum, sometimes plastic. I trust any foil backed insulation is in the floor of the attic rather than the roof.

All other things being equal, I would expect the antenna to be noticeably better above the roof, because there will be some attenuation indoors, and greater proximity to noise makers, and things that can get overloaded by your transmitter.. But I doubt it would be a huge difference, although on wet days it may well be sigificant. If the vent is metal, then the attic antenna, because you can get it farther from the vent, may well be better.

But "better" is a relative term. I suspect in 4-land you don't get the snow and ice we get up here on the tundra, but I imagine you have pretty decent storms come by once in a while. It may well be that the slight attentatuon is a small price to pay for not having to re-string the antenna every time hurricane season rolls around.

..

From -8645921086446457933
X-Google-Thread: fc2a5,c4c25aab4d213447
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!73g2000cwn.googlegroups.com!not-for-mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna in the attic question
Date: 10 Dec 2006 11:38:13 -0800
Organization: http://groups.google.com
Lines: 31
Message-ID: <1165779493.657019.16730@73g2000cwn.googlegroups.com>
References: <1165765343.577779.158140@f1g2000cwa.googlegroups.com>
   <xYCdnctEv6Dj0uHYnZ2dnUVZ8qm3nZ2d@pipex.net>
NNTP-Posting-Host: 66.19.112.119
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165779499 29146 127.0.0.1 (10 Dec 2006 19:38:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 10 Dec 2006 19:38:19 +0000 (UTC)
In-Reply-To: <xYCdnctEv6Dj0uHYnZ2dnUVZ8qm3nZ2d@pipex.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98; DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 73g2000cwn.googlegroups.com; posting-host=66.19.112.119;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:8175

Highland Ham wrote:
> ==
> Andy , You didn't provide the shape of your roof space eg width at loft
> bottom and whether there is any metal around (apart from nails/screws
> etc).   For an HF roof space antenna I would recommend a wire loop as
> much as possible away from any metal and with total loop length
> exceeding the the length of the largest wavelenght you wish to operate
> on. So in your case a loop of > 10m or say 35 ft would be adequate
>
> A square would be the optimum ,but a 'wide rectangular' is acceptable.
> Feed the loop with any balanced feeder ,twinlead electrical cable'(75
> Ohms ?) or 300 -450 Ohms ribbon or 2 wires with insulator spacers.
>
> It would be best to feed the loop somewhere near the middle of a side
>
> You obviously need a balanced tuner/matching unit ,but might get away
> with a simple current balun
>
> Good luck
>
> Frank   KN6WH / GM0CSZ

Andy replies:

Thanks for taking the time to give me your advice. However, do you have an answer or opinion about the question that I asked ?

Andy W4OAH

From -2624612687896600929
X-Google-Thread: 10ed5f,dc19b896dd89980a
X-Google-Thread: 114a57,dc19b896dd89980a
X-Google-Thread: f7796,dc19b896dd89980a
X-Google-Thread: fc2a5,dc19b896dd89980a
X-Google-Attributes: gid10ed5f,gid114a57,gidf7796,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!newssvr21.news.prodigy.net.POSTED!335a67d5!not-for-mail
From: Kurt <ksaves2@sbcglobal.net>
User-Agent: Mozilla Thunderbird 1.0.7 (X11/20050923)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: alt.ham-radio,alt.ham-radio.hf,alt.ham-radio.morse,rec.radio.amateur.homebrew
Subject: Re: James Kim: new vs old tech
References: <RqmdneZhJOJaFeXYnZ2dnUVZ_vCdnZ2d@comcast.com>

```
<00con2dk33ogb5jjvggbsnekavfe8odtik@4ax.com>
In-Reply-To: <00con2dk33ogb5jjvggbsnekavfe8odtik@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 35
Message-ID: <FqZeh.4649$Gr2.1150@newssvr21.news.prodigy.net>
NNTP-Posting-Host: 75.23.97.81
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr21.news.prodigy.net 1165779749 ST000 75.23.97.81 (Sun, 10 Dec 2006
14:42:29 EST)
NNTP-Posting-Date: Sun, 10 Dec 2006 14:42:29 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
Q[R_@SJDFJV_STD[\@CBNWX@RJ_XPDLMN@GZ_GYO^BTBTSUBYFWEAE[YJLYPIWKHTFCMZKVMB^[Z^DOBRV
VMOSPFHNSYXVDIE@X\BUC@GTSX@DL^GKFFHQCCE\G[JJBMYDYIJCZM@AY]GNGPJD]YNNW\GSX^GSCKHA[]
@CCB\[@LATPD\L@J\\PF]VR[QPJN
Date: Sun, 10 Dec 2006 19:42:29 GMT
Xref: g2news2.google.com alt.ham-radio:1439 alt.ham-radio.hf:631 alt.ham-
radio.morse:310 rec.radio.amateur.homebrew:8176

maxfoo wrote:
> On Thu, 07 Dec 2006 15:33:59 -0600, notbob <notbob@nothome.com> wrote:
>
>
>>No doubt many are saddened by the senseless loss of James Kim, the
>>family man that perished in the mountains of Western Oregon early this
>>week.  I think what makes it all the more tragic is that here was a
>>person who was on the cutting edge of all the latest and greatest high
>>tech computer and communications technology.  Blackberries, photo
>>cellphones, wifi PDA's and laptops, etc.  I'm stunned a person in such
>>a high tech vector could become so completely isolated in such a short
>>distance from the mainstream.
>>
>>This worries me because it highlights the shortcomings of all this new
>>high tech gimcrackery.  As I understand it, even satellite cellphones
>>require a service provider with a nearby uplink antenna.  So, this
>>brings up my question, as a non ham:
>>
>>How long do you think it would have taken James, or anyone in that
>>situation, to make contact with outside help and get him and his
>>family out of there if he'd had something like a basic QRP tranceiver
>>and antenna and knew how to use it?
>>
>>Any thoughts you may have on this issue would be appreciated.
>>
>>nb
>
>
> Great idea setting the tires on fire,but they should of started a huge forest
> fire in the area. going to prison for starting a forest fire is way better than
> dead!
>
>
```

Starting a forest fire in the middle of the freak'in winter?
Highly unlikely.

From -3058613210412662922
X-Google-Thread: fc2a5,c4c25aab4d213447
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j72g2000cwa.googlegroups.com!not-for-mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna in the attic question
Date: 10 Dec 2006 11:45:45 -0800
Organization: http://groups.google.com
Lines: 43
Message-ID: <1165779945.862528.6670@j72g2000cwa.googlegroups.com>
References: <1165765343.577779.158140@f1g2000cwa.googlegroups.com>
   <7kZeh.2677$%z.481@newsfe07.lga>
NNTP-Posting-Host: 66.19.112.119
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165779951 20721 127.0.0.1 (10 Dec 2006 19:45:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 10 Dec 2006 19:45:51 +0000 (UTC)
In-Reply-To: <7kZeh.2677$%z.481@newsfe07.lga>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98; DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j72g2000cwa.googlegroups.com; posting-host=66.19.112.119;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:8177

xpyttl wrote:
>
> Is the ridge vent metal? Usually it is covered with shingles, but sometimes
> it is aluminum, sometimes plastic. I trust any foil backed insulation is in
> the floor of the attic rather than the roof.
>

**** Correct. All the metal is well removed. Just a wood
sheathing/asphalt
shingle roof..

> All other things being equal, I would expect the antenna to be noticeably
> better above the roof, because there will be some attenuation indoors, and
> greater proximity to noise makers, and things that can get overloaded by
> your transmitter.. But I doubt it would be a huge difference, although on
> wet days it may well be sigificant. If the vent is metal, then the attic
> antenna, because you can get it farther from the vent, may well be better.

**** I didn't think of the "wet days" situation..... I haven't seen
much difference
in antenna performance due to rain or weather tho... However, it
doesn't
snow here much at all.

>
> But "better" is a relative term. I suspect in 4-land you don't get the snow
> and ice we get up here on the tundra, but I imagine you have pretty decent
> storms come by once in a while. It may well be that the slight attentatuon
> is a small price to pay for not having to re-string the antenna every time
> hurricane season rolls around.
>

**** No hurricanes in Eureka, Texas... Just tornadoes... And the
antenna
will usually land somewhere around where the house comes down at .....
:>)))))

*** The main reason for the question is my wife's opinion of acceptable
adornment for the exterior of our new house...... She doesn't share
my fascination with "electronical stuff" as an art form...

:>)   Andy W4OAH in Eureka, Texas

From -6811492430995101473
X-Google-Thread: fc2a5,4ddcaa4fd0d436ff
X-Google-Thread: 107ada,4ddcaa4fd0d436ff
X-Google-Thread: 10bf43,2c4455d409626fd9
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!80g2000cwy.googlegroups.com!not-for-mail
From: "an_old_friend" <konstans@hotmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: What's REALLY Going to Happen When the Code Test Drops
Date: 10 Dec 2006 12:21:07 -0800
Organization: http://groups.google.com
Lines: 44
Message-ID: <1165782066.970542.169500@80g2000cwy.googlegroups.com>
References: <ga2n2.uro.17.1@news.alt.net>
<h3jkm21dmsoreokn216n16cahqb2f62ds3@4ax.com>
<1164670674.764624.21590@f16g2000cwb.googlegroups.com>
<t5vmm21c7vctu5p1sgd4u0u7tc0s9l7j62@4ax.com>
<1164682092.492069.211240@l39g2000cwd.googlegroups.com>
<1165407544.057957.176440@n67g2000cwd.googlegroups.com>
<Nfoeh.8470$ql2.7534@newsread3.news.pas.earthlink.net>
<7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com>
<v4udneNaF5P2m-bYnZ2dnUVZ_vipnZ2d@comcast.com>
<1165704886.690348.306000@f1g2000cwa.googlegroups.com>
<D7ednU4bSI1w2ObYnZ2dnUVZ_o6gnZ2d@comcast.com>

NNTP-Posting-Host: 69.19.14.24
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165782073 2890 127.0.0.1 (10 Dec 2006 20:21:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 10 Dec 2006 20:21:13 +0000 (UTC)
In-Reply-To: <D7ednU4bSI1w2ObYnZ2dnUVZ_o6gnZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 80g2000cwy.googlegroups.com; posting-host=69.19.14.24;
   posting-account=5Yl6pg0AAADpwOMWiAfWEILF9IbswBYm
Xref: g2news2.google.com rec.radio.amateur.homebrew:8178
rec.radio.amateur.misc:26986 rec.radio.amateur.policy:57432

Dee Flint wrote:
> <hot-ham-and-cheese@hotmail.com> wrote in message
> news:1165704886.690348.306000@f1g2000cwa.googlegroups.com...
> >

> > A lack of enforcement is a lack of enforcement, and a Morse Code Exam
> > CANNOT be used as a substitute.
> >
>
> If you recall, I've never been the one to claim it is any type of filter
> etc. I simply think it is one of the basics and for that reason believe a
> basic requirement is suitable.

and there of course you are plain wrong

Neither Morse code nor cw has been truly basic to Ham radio at any time
in our history in making this statement you spout bogus propaganda

Morse Code has NOTHING whatever to do with radio it just so happens to
exist and was apllied to first spark (which sure isn't CW) as it was
applied to various wired aplication

indeed the Morse Code test know even prove one can use Morse Code (as
can be seen by skimming the threads bashing newbie code users on QRZ)

indeed with you Dee we have a clear case of the dmage done the ARS by
Code testing

we have an extra class our most tested therefore in theory our most
knowledgable class of hma making down right stupid statement about what
Ham radio is

now it isn't entirely her fault of course she is product of th e system
foisted on one by the FCC allowing the ARRL to decide what we needed to
be real hams

it is rather like the case in B5 of Akara 7 where the leader fed propagnad about what made a real Akaran to leath weapons and turned them loose during an invasion the result was the they repelled the in vasion and killed off all of the inhabitants of Akara 7 as well

Dee Flint is a poster child for what went wrong with incentive licensing

---

```
From -3090708062880986811
X-Google-Thread: fc2a5,77a8abd4a534b187
X-Google-Thread: 10bf43,77a8abd4a534b187
X-Google-Thread: 114aac,7da1d4d770f90e92
X-Google-Thread: 1109af,77a8abd4a534b187
X-Google-Attributes: gidfc2a5,gid10bf43,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!73g2000cwn.googlegroups.com!not-for-
mail
From: hot-ham-and-cheese@hotmail.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.shortwave,rec.radio.
swap
Subject: Re: Call for Action-CW Advocacy organization
Date: 10 Dec 2006 13:34:00 -0800
Organization: http://groups.google.com
Lines: 27
Message-ID: <1165786440.798219.73220@73g2000cwn.googlegroups.com>
References: <12ngg4j105cjp01@corp.supernews.com>
   <telamon_spamshield-F6A0EB.18540107122006@newsclstr02.news.prodigy.com>
   <HTIeh.8314$sf5.2493@newsread4.news.pas.earthlink.net>
NNTP-Posting-Host: 4.224.228.29
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1165786446 13188 127.0.0.1 (10 Dec 2006 21:34:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 10 Dec 2006 21:34:06 +0000 (UTC)
In-Reply-To: <HTIeh.8314$sf5.2493@newsread4.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 73g2000cwn.googlegroups.com; posting-host=4.224.228.29;
   posting-account=mMyuWQ0AAAANPpX1wK2NRuuQfAjm_kIo
Xref: g2news2.google.com rec.radio.amateur.homebrew:8179
rec.radio.amateur.policy:57440 rec.radio.shortwave:60965 rec.radio.swap:10613
```

Maxwell Plonk wrote:

> Telamon <telamon_spamshield@pacbell.net.is.invalid> wrote in
> news:telamon_spamshield-F6A0EB.18540107122006@newsclstr02.news.prodigy.com:
>
> > In article <12ngg4j105cjp01@corp.supernews.com>,
> > "FedUP" <fedup@intergate.com> wrote:

> >
> >>   This is not a warm and fuzzy "feel good" letter like much of the
> >> baloney you read in the ham radio press.
> >
> > < Snip >
> >
> > Nobody cares.
> >
> > < Plonk >
>
>
> You don't care because you're a Lazy ass and don't want to be a skilled
> radio hobbiest, but there are a lot of us out here that do care and want
> to be skilled. When you need help with anything your sorry ass is going to
> be calling on us skilled operators for help.
>
> Max

Max, max, max, lighten up. Nobody is asking for your help.

From 7321213736491290523
X-Google-Thread: fc2a5,c4c25aab4d213447
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe03.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1165765343.577779.158140@f1g2000cwa.googlegroups.com>   <7kZeh.2677$%z.481@newsfe07.lga> <1165779945.862528.6670@j72g2000cwa.googlegroups.com>
Subject: Re: Antenna in the attic question
Lines: 14
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <vr%eh.1005$VR1.225@newsfe03.lga>
X-Trace:
pgpdkimbbbabbbpekannfilpcpbbolnmoeblipafcehookmgnicfceledepkikoolhlefpnpglhfdcnhmp
jopjjbpmhdpikipkklaoondfgkbgighogccmhipkkeoehhjcecfidbdaffifbo
NNTP-Posting-Date: Sun, 10 Dec 2006 14:59:55 MST
Date: Sun, 10 Dec 2006 16:59:50 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8180

"AndyS" <andysharpe@juno.com> wrote in message
news:1165779945.862528.6670@j72g2000cwa.googlegroups.com...

> *** The main reason for the question is my wife's opinion of acceptable

```
> adornment for the exterior of our new house......  She doesn't share
> my fascination with "electronical stuff" as an art form...

Ahhh, well. That changes things.  A wire antenna is practically invisible,
but you wouldn't want it in the attic where it could attract lightning
inside the house.

..




From -5591099801586764448
X-Google-Thread: fc2a5,77a8abd4a534b187
X-Google-Thread: 10bf43,77a8abd4a534b187
X-Google-Thread: 114aac,7da1d4d770f90e92
X-Google-Thread: 1109af,77a8abd4a534b187
X-Google-Attributes: gidfc2a5,gid10bf43,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.shortwave,rec.radio.
swap
Subject: Re: Call for Action-CW Advocacy organization
Date: Sun, 10 Dec 2006 17:03:25 -0500
Message-ID: <e01pn2ln6tad6fcuems5c9jr1ik5lkm7os@4ax.com>
References: <12ngg4j105cjp01@corp.supernews.com> <telamon_spamshield-
F6A0EB.18540107122006@newsclstr02.news.prodigy.com>
<HTIeh.8314$sf5.2493@newsread4.news.pas.earthlink.net>
<1165786440.798219.73220@73g2000cwn.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 32
NNTP-Posting-Date: 10 Dec 2006 21:08:54 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8181
rec.radio.amateur.policy:57443 rec.radio.shortwave:60974 rec.radio.swap:10617

On 10 Dec 2006 13:34:00 -0800, hot-ham-and-cheese@hotmail.com wrote:

>
>Maxwell Plonk wrote:
>> Telamon <telamon_spamshield@pacbell.net.is.invalid> wrote in
>> news:telamon_spamshield-F6A0EB.18540107122006@newsclstr02.news.prodigy.com:
>>
>> > In article <12ngg4j105cjp01@corp.supernews.com>,
>> >  "FedUP" <fedup@intergate.com> wrote:
>> >
>> >>      This is not a warm and fuzzy "feel good" letter like much of the
>> >> baloney you read in the ham radio press.
>> >
>> > < Snip >
>> >
>> > Nobody cares.
>> >
>> > < Plonk >
>>
>>
>> You don't care because you're a Lazy ass and don't want to be a skilled
>> radio hobbiest, but there are a lot of us out here that do care and want
>> to be skilled. When you need help with anything your sorry ass is going to
>> be calling on us skilled operators for help.
>>
>> Max
>
>Max, max, max, lighten up.  Nobody is asking for your help.

he can't anymore than Robeson and Heil and Flint and SC they all MUST
control the livies and hobbies of others
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From 6140248209297071039
X-Google-Thread: fc2a5,c4c25aab4d213447
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe17.lga.POSTED!53ab2750!not-for-mail
From: Sam Morgan <ka5oai@cox.net>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna in the attic question
References: <1165765343.577779.158140@f1g2000cwa.googlegroups.com>   <7kZeh.2677$
%z.481@newsfe07.lga> <1165779945.862528.6670@j72g2000cwa.googlegroups.com>
In-Reply-To: <1165779945.862528.6670@j72g2000cwa.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 13
Message-ID: <vx%eh.20220$nJ1.7128@newsfe17.lga>
Date: Sun, 10 Dec 2006 16:06:36 -0600
NNTP-Posting-Host: 70.185.138.222
X-Complaints-To: admin@cox.net
X-Trace: newsfe17.lga 1165788379 70.185.138.222 (Sun, 10 Dec 2006 15:06:19 MST)
NNTP-Posting-Date: Sun, 10 Dec 2006 15:06:19 MST
Organization: Cox
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:8182

AndyS wrote:
> *** The main reason for the question is my wife's opinion of acceptable
> adornment for the exterior of our new house...... She doesn't share
> my fascination with "electronical stuff" as an art form...
>
Well that settles it in my mind, do it inside the roof as high as u can get it.
(use rope and pulleys so u can later play with it, when the urge hits)
It should work almost as well as of it were outside and 3 foot higher.
Easy to get the feel line to come away at a 90 degree angle.
(not necessary, but if it does great)

and last but not least
It will save up your exterior adornments play with the xyl for a later project.

From -4093418861872822864
X-Google-Thread: fc2a5,c4c25aab4d213447
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l12g2000cwl.googlegroups.com!not-for-mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna in the attic question
Date: 10 Dec 2006 14:15:28 -0800
Organization: http://groups.google.com
Lines: 26
Message-ID: <1165788928.399026.210010@l12g2000cwl.googlegroups.com>
References: <1165765343.577779.158140@f1g2000cwa.googlegroups.com>
<7kZeh.2677$%z.481@newsfe07.lga>
<1165779945.862528.6670@j72g2000cwa.googlegroups.com>
<vr%eh.1005$VR1.225@newsfe03.lga>
NNTP-Posting-Host: 66.19.114.79
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165788934 19193 127.0.0.1 (10 Dec 2006 22:15:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 10 Dec 2006 22:15:34 +0000 (UTC)
In-Reply-To: <vr%eh.1005$VR1.225@newsfe03.lga>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98; DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l12g2000cwl.googlegroups.com; posting-host=66.19.114.79;
posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:8183

xpyttl wrote:>
> Ahhh, well. That changes things. A wire antenna is practically invisible,
> but you wouldn't want it in the attic where it could attract lightning

> inside the house.
>
> ..

Andy comments:

Well, the difference between being "practically invisible" and being pre-emminent in grotesqueness to my wife is "practically negligible" (grin).

I'm not certain that an antenna "attracts" lightning. It probably makes little difference between hitting an outside antenna, running in the feedline, and burning down the house VERSUS going thru a layer of asphalt shingles and doing the same thing...... but I can see where you're coming from.....

However, in Eureka we don't usually have problems with lightning because the tornado usually blows the antenna away before the lightning strikes......

Andy W4OAH in Eureka, Texas

```
From -8255513210684479415
X-Google-Thread: fc2a5,c4c25aab4d213447
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!79g2000cws.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna in the attic question
Date: 10 Dec 2006 14:19:08 -0800
Organization: http://groups.google.com
Lines: 13
Message-ID: <1165789148.395244.147390@79g2000cws.googlegroups.com>
References: <1165765343.577779.158140@f1g2000cwa.googlegroups.com>
   <7kZeh.2677$%z.481@newsfe07.lga>
   <1165779945.862528.6670@j72g2000cwa.googlegroups.com>
   <vx%eh.20220$nJ1.7128@newsfe17.lga>
NNTP-Posting-Host: 66.19.114.79
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165789154 19738 127.0.0.1 (10 Dec 2006 22:19:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 10 Dec 2006 22:19:14 +0000 (UTC)
In-Reply-To: <vx%eh.20220$nJ1.7128@newsfe17.lga>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 79g2000cws.googlegroups.com; posting-host=66.19.114.79;
```

posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:8184

Sam Morgan wrote:
> It will save up your exterior adornments play with the xyl for a later project.

Andy comments:
Yeah, you would not BELIEVE the size of the television antenna we
need
here to get good reception (grin)........fortunately Moseley makes a
good
one....   :>)))))

Andy W4OAH

From 3465922182207795748
X-Google-Thread: 107ada,ab45730c920bfe0b
X-Google-Thread: 10bf43,ab45730c920bfe0b
X-Google-Thread: fc2a5,7761942de129b76a,start
X-Google-Attributes: gid107ada,gid10bf43,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.homebrew
Subject: Re: CW is ham history. It's what binds us and makes us unique.
From: Slow Code <my.mail@no.spam>
References: <ITIeh.8315$sf5.1226@newsread4.news.pas.earthlink.net>
<1165716241.681106.320510@80g2000cwy.googlegroups.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 21
Message-ID: <3P2fh.8656$tM1.7838@newsread1.news.pas.earthlink.net>
Date: Mon, 11 Dec 2006 01:49:51 GMT
NNTP-Posting-Host: 4.230.3.159
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1165801791 4.230.3.159 (Sun, 10 Dec 2006
17:49:51 PST)
NNTP-Posting-Date: Sun, 10 Dec 2006 17:49:51 PST
Xref: g2news2.google.com rec.radio.amateur.misc:27009
rec.radio.amateur.policy:57471 rec.radio.amateur.homebrew:8186

hot-ham-and-cheese@hotmail.com wrote in
news:1165716241.681106.320510@80g2000cwy.googlegroups.com:

>
> Slow Code wrote:
>
> Yet I am not bound to you.

>
>> Just listen to CB if you want to know what HF will sound like after
>> code is eliminated.   The very fact that you can run into people like
>> Markie on HF should give you a clue as to how bad it can get.
>
> How has code kept you and Robesin out of amateur radio and off the air?
> It's not an effective filter.

I'm not the problem. The problem is the people that don't what to be
good skilled hams. They just want a welfare license, they don't think
they should have to learn or by skilled at anything to have one.

SC

From -4815479058898272024
X-Google-Thread: fcc6e,cf541cecde97a544,start
X-Google-Thread: fc2a5,77a8abd4a534b187
X-Google-Thread: 10bf43,77a8abd4a534b187
X-Google-Thread: 114aac,7da1d4d770f90e92
X-Google-Thread: 1109af,77a8abd4a534b187
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.shortwave,rec.radio.swap
Subject: Re: Call for Action-CW Advocacy organization
From: Slow Code <my.mail@no.spam>
References: <12ngg4j105cjp01@corp.supernews.com> <telamon_spamshield-
F6A0EB.18540107122006@newsclstr02.news.prodigy.com>
<HTIeh.8314$sf5.2493@newsread4.news.pas.earthlink.net>
<eccon2p141l7j6f5e5itt4nvan7rsmoeae@4ax.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 13
Message-ID: <0P2fh.8654$tM1.2010@newsread1.news.pas.earthlink.net>
Date: Mon, 11 Dec 2006 01:49:48 GMT
NNTP-Posting-Host: 4.230.3.159
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1165801788 4.230.3.159 (Sun, 10 Dec 2006
17:49:48 PST)
NNTP-Posting-Date: Sun, 10 Dec 2006 17:49:48 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:22849
rec.radio.amateur.homebrew:8185 rec.radio.amateur.policy:57469
rec.radio.shortwave:60996 rec.radio.swap:10620

Bill Turdner <noway@nowhow.com> wrote in
news:eccon2p141l7j6f5e5itt4nvan7rsmoeae@4ax.com:

> Please folks, do not reply to these off topic posts.
>
> If these idiots never get any replies, they will eventually give up
> and go away.

The only idiots I see are people that don't want to learn CW.

SC

From -5935073785680139913
X-Google-Thread: fcc6e,cf541cecde97a544
X-Google-Thread: fc2a5,77a8abd4a534b187
X-Google-Thread: 10bf43,77a8abd4a534b187
X-Google-Thread: 114aac,7da1d4d770f90e92
X-Google-Thread: 1109af,77a8abd4a534b187
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.maxwell.syr.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.shortwave,rec.radio.swap
Subject: Re: Call for Action-CW Advocacy organization
Date: Sun, 10 Dec 2006 20:52:32 -0500
Message-ID: <beepn29vlpvb3192q7t1hd6rjatpgitfdh@4ax.com>
References: <12ngg4j105cjp01@corp.supernews.com> <telamon_spamshield-
F6A0EB.18540107122006@newsclstr02.news.prodigy.com>
<HTIeh.8314$sf5.2493@newsread4.news.pas.earthlink.net>
<eccon2p141l7j6f5e5itt4nvan7rsmoeae@4ax.com>
<0P2fh.8654$tM1.2010@newsread1.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 18
NNTP-Posting-Date: 11 Dec 2006 00:57:59 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:22856
rec.radio.amateur.homebrew:8187 rec.radio.amateur.policy:57486
rec.radio.shortwave:61003 rec.radio.swap:10628

On Mon, 11 Dec 2006 01:49:48 GMT, Slow Code <my.mail@no.spam> wrote:

>Bill Turdner <noway@nowhow.com> wrote in
>news:eccon2p141l7j6f5e5itt4nvan7rsmoeae@4ax.com:
>
>> Please folks, do not reply to these off topic posts.
>>
>> If these idiots never get any replies, they will eventually give up

```
>> and go away.
>
>
>
>The only idiots I see are people that don't want to learn CW.

only becuase you are blind and stupid sc
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From 8261922657448373032
X-Google-Thread: 107ada,ab45730c920bfe0b
X-Google-Thread: 10bf43,ab45730c920bfe0b
X-Google-Thread: fc2a5,7761942de129b76a
X-Google-Attributes: gid107ada,gid10bf43,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.homebrew
Subject: Re: CW is  history
Date: Sun, 10 Dec 2006 20:55:16 -0500
Message-ID: <7fepn2tditqss6b51nlk6i28teq11419o9@4ax.com>
References: <ITIeh.8315$sf5.1226@newsread4.news.pas.earthlink.net>
<1165716241.681106.320510@80g2000cwy.googlegroups.com>
<3P2fh.8656$tM1.7838@newsread1.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 44
NNTP-Posting-Date: 11 Dec 2006 01:00:45 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.misc:27019
rec.radio.amateur.policy:57487 rec.radio.amateur.homebrew:8188

On Mon, 11 Dec 2006 01:49:51 GMT, Slow Code <my.mail@no.spam> wrote:

>hot-ham-and-cheese@hotmail.com wrote in
>news:1165716241.681106.320510@80g2000cwy.googlegroups.com:
>
>>
>> Slow Code wrote:
>>
>> Yet I am not bound to you.
>>
```

```
>>> Just listen to CB if you want to know what HF will sound like after
>>> code is eliminated.   The very fact that you can run into people like
>>> Markie on HF should give you a clue as to how bad it can get.
>>
>> How has code kept you and Robesin out of amateur radio and off the air?
>>  It's not an effective filter.
>
>
>I'm not the problem.


you certainly part of the problem

you dengrate everyone and propose thing you, yourself admit would kill
Ham radio

>the problem is the people that don't what to be
>good skilled hams.

no SC plenty wanted and ARE skilled hams that just don't want to waste
thier

>  They just want a welfare license,.....

no YOU have a welfare license welfare for mode that doesn't seem to be
able to stand on its own

>..... they don't think
>they should have to learn or by skilled at anything to have one.

nah they just don't want waste their time on Morse
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From 7540209945629570408
X-Google-Thread: fc2a5,bb9adf88325b7947
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!79g2000cws.googlegroups.com!not-for-
mail
From: "bcdlr" <on30ng@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need Help - Harris Filter??
Date: 10 Dec 2006 18:47:32 -0800
Organization: http://groups.google.com
Lines: 22
Message-ID: <1165805252.094730.208300@79g2000cws.googlegroups.com>
```

References: <1165379636.910100.60470@16g2000cwy.googlegroups.com>
   <DXDdh.16659$j7.335585@news.indigo.ie>
   <1165511955.087517.292500@n67g2000cwd.googlegroups.com>
   <xBZdh.16678$j7.335657@news.indigo.ie>
NNTP-Posting-Host: 74.135.146.232
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165805258 18965 127.0.0.1 (11 Dec 2006 02:47:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 11 Dec 2006 02:47:38 +0000 (UTC)
In-Reply-To: <xBZdh.16678$j7.335657@news.indigo.ie>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.8)
Gecko/20061025 Firefox/1.5.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 79g2000cws.googlegroups.com; posting-host=74.135.146.232;
   posting-account=cHaz4A0AAABSvgBXdvZeKRmzV_BI715_
Xref: g2news2.google.com rec.radio.amateur.homebrew:8189

Ed, that's about right. The three pins at one end and the two pins at
the other.
Size is a little smaller, about 1-3/8" L x 1-1/8" W x 11/16" H (approx.
dimensions).
Again on the top it says - Freq. 10.000 MHZ
No adjusting hole like that diagram.
Hey, we're getting much closer!!

Dan KB9JLO

Eamon Skelton wrote:
> On Thu, 07 Dec 2006 09:19:15 -0800, bcdlr wrote:
>
> A 10MHz oscillator in a sealed metal can could be a TCXO
> or possibly even an OCXO.
>
> Has it a similar pinout to the unit at the bottom of
> this page?
>
> http://www.vectron.com/products/ocxo/co724725.htm
>

From 4619702322549382353
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f1g2000cwa.googlegroups.com!not-for-
mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Converting AM Car Radio to Shortwave
Date: 10 Dec 2006 18:56:44 -0800

Organization: http://groups.google.com
Lines: 19
Message-ID: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
NNTP-Posting-Host: 207.69.137.200
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1165805809 25908 127.0.0.1 (11 Dec 2006 02:56:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 11 Dec 2006 02:56:49 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f1g2000cwa.googlegroups.com; posting-host=207.69.137.200;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8190

All right, I think I might have found the proper place to ask about this. Back in the 90's when GEnie was still around, they had plans to convert old AM car radios to shortwave receivers. My old Franklin ACE 500 computer wasn't capable of interpreting the file at the time, so I didn't get to download it. I'm hoping someone here might know where I could get the instructions.

I know, I could just get off my lazy ass, get an ARRL manual and figure it out for myself, but if there's an easier option, I'd like to go for it. All I'm looking for is something that will pick up broadcasts between upper AM and the scanner frequencies.

By the way, my hotmail account isn't working, so emailing me won't do any good. Please post where I can find what I'm looking for here.
Thanks.

Ralph Glatt

From 6302817681260446077
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!79g2000cws.googlegroups.com!not-for-mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave
Date: 11 Dec 2006 04:32:30 -0800
Organization: http://groups.google.com
Lines: 39
Message-ID: <1165840350.029509.309650@79g2000cws.googlegroups.com>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
NNTP-Posting-Host: 66.19.112.146

```
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165840356 8414 127.0.0.1 (11 Dec 2006 12:32:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 11 Dec 2006 12:32:36 +0000 (UTC)
In-Reply-To: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 79g2000cws.googlegroups.com; posting-host=66.19.112.146;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:8191
```

julian814 wrote:

> All right, I think I might have found the proper place to ask about
> this. Back in the 90's when GEnie was still around, they had plans to
> convert old AM car radios to shortwave receivers. My old Franklin ACE
> 500 computer wasn't capable of interpreting the file at the time, so I
> didn't get to download it. I'm hoping someone here might know where I
> could get the instructions.
> > Ralph Glatt

Andy writes:

In my opinion, the easiest, most non-destructive way to do this is to add a converter, using the AM radio as a tuneable IF for AM transmissions.

A two transistor converter, using a xtal oscillator and a mixer, can easily do this. Just select the xtal frequency to be about 1000 Khz above or below the middle of the shortwave band you want.

I am assuming you are only interested in AM shortwave broadcasts. Any of the other modes would require modification to the inside of the AM radio....

Anyway, the neat thing about this approach is that no modification needs to be done to the innards of the AM radio......And you can still listen to Rush Limbaugh by switching off the converter....

If, on the other hand, you want to modify the AM radio to short wave without adding anything significant, it depends entirely on the circuit. In general, you will rewind a bunch of coils, which means you need equipment for testing and measuring. There are some AM radio designs that are such that success is extremely unlikely while others are fairly straightforward ---- it's like asking "how much does a rock weigh?"

I encourage the CONVERTER approach.... Good luck with your project. These weekenders can be a lot of fun and very educational...

Andy W4OAH in Eureka, Texas

From 9024748941798909431
X-Google-Thread: fc2a5,ee2507c2ec9d294d,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j44g2000cwa.googlegroups.com!not-for-mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: A different view of the code test option
Date: 11 Dec 2006 04:53:39 -0800
Organization: http://groups.google.com
Lines: 49
Message-ID: <1165841619.210023.187380@j44g2000cwa.googlegroups.com>
NNTP-Posting-Host: 66.19.112.146
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1165841625 11399 127.0.0.1 (11 Dec 2006 12:53:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 11 Dec 2006 12:53:45 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98; DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j44g2000cwa.googlegroups.com; posting-host=66.19.112.146;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:8192

Andy writes

Well, I've read the posts here, as well as the vitriol being thrown around, and it's obvious that a lot of people have strong opinions about the usefulness of the code test.

As a pragmatist , here is MY two cents worth.

1) No-code operators won't be on the CW bands, so those of us that us CW won't even know they are around.

2) Most, if not damn near ALL equipment being put on the air now are appliances bought in the store what have been type accepted. Consequently, no degradation of technical standards will occur, as MOST of the equipment are designed by professionals anyway, and I doubt that many no-code operators will try to build their own.

3) Those FEW, like myself, who build their own equipment know lthere is NO correlation between knowing Morse Code and the technical design of a radio. We learned Morse because we had to, and either learned to love it or promptly forgot it as we designed our

SSB and FM radios for the next several decades.....

4) Finally, the ONLY concern I have is that portions of the CW bands may eventually be taken away and given to the appliance operators. If interest in the CW bands dwindles, that's probably just an evolutionary step... However, having CW as a requirement will NOT make newbies want to use it when they can just talk into a microphone and jabber away. It's a new breed of internet-savy operators, and already the newsgroups (like THIS ONE) are attracting far more people who like to talk with strangers than an expensive appliance that interferes with the wife's TV programs .... I'm afraid ham radio is dwindling, but it will be around for the rest of my lifetime, and that's OK .....

That's how I see it. Having a code requirement is simply an obstacle to hurdle in getting a license. It may as well be required for a driver's license for all the "technical" good it does. On the other hand, it does give us Extras a sort of "elite" status for having earned it.... I'm glad to have the ability to have Morse Code, typing, memorization of the color codes, and good looks on my resume....

Andy W4OAH in Eureka , Texas

From -3645129467551216097
X-Google-Thread: fc2a5,c4c25aab4d213447
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc05.POSTED!291cd109!not-for-mail
From: Al <no.spam@wanted.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Antenna in the attic question
References: <1165765343.577779.158140@f1g2000cwa.googlegroups.com>
User-Agent: MT-NewsWatcher/3.1 (PPC)
Message-ID: <no.spam-AADBF6.08421511122006@news.verizon.net>
Lines: 29
Date: Mon, 11 Dec 2006 13:42:14 GMT
NNTP-Posting-Host: 68.239.24.81
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc05 1165844534 68.239.24.81 (Mon, 11 Dec 2006 08:42:14 EST)
NNTP-Posting-Date: Mon, 11 Dec 2006 08:42:14 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8193

In article <1165765343.577779.158140@f1g2000cwa.googlegroups.com>,
"AndyS" <andysharpe@juno.com> wrote:

> Andy writes:
>
> I would like to hear some discussion/advice on the feasibility of

> putting
> an antenna for, say, 30m in the attic versus on top of the roof...
>

I'm not a ham, I just enjoy the discussions here.

My two cents worth.

When we got our first TV in the 50's, my father wanted to install an antenna but was leery of going up on the roof. I told him to put it in the attice. He did and it worked just great.

After we moved, we did the same in the second house. No problem.

Maybe the fact that we lived about 10 to 15 miles from the Empire State Building in NYC may have had something to do with it.

I now live about 2 miles from three 1100 ft. TV towers. The rabbit ears in my basement work just fine ;-)

I also get audio on my telephone. Grrr!

Al

```
From 7323268196700160003
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j44g2000cwa.googlegroups.com!not-for-
mail
From: "julian814" <julian814@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave
Date: 11 Dec 2006 06:51:01 -0800
Organization: http://groups.google.com
Lines: 40
Message-ID: <1165848660.983456.12930@j44g2000cwa.googlegroups.com>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
   <1165840350.029509.309650@79g2000cws.googlegroups.com>
NNTP-Posting-Host: 207.69.139.6
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165848665 28487 127.0.0.1 (11 Dec 2006 14:51:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 11 Dec 2006 14:51:05 +0000 (UTC)
In-Reply-To: <1165840350.029509.309650@79g2000cws.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j44g2000cwa.googlegroups.com; posting-host=207.69.139.6;
   posting-account=j4bAOwwAAACppqnEJLGJ9-O0r3i_XvA9
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:8194

AndyS wrote:
> In my opinion, the easiest, most non-destructive way to do this
> is to add a converter, using the AM radio as a tuneable IF for
> AM transmissions.
> A two transistor converter, using a xtal oscillator and a mixer,
> can easily do this. Just select the xtal frequency to be about
> 1000 Khz above or below the middle of the shortwave band you
> want.
> I am assuming you are only interested in AM shortwave
> broadcasts. Any of the other modes would require modification to
> the inside of the AM radio....
>
> Anyway, the neat thing about this approach is that no modification
> needs to be done to the innards of the AM radio......And you can
> still listen to Rush Limbaugh by switching off the converter....
>
> If, on the other hand, you want to modify the AM radio to short
> wave without adding anything significant, it depends entirely on
> the circuit. In general, you will rewind a bunch of coils, which
> means you need equipment for testing and measuring. There are
> some AM radio designs that are such that success is extremely
> unlikely while others are fairly straightforward ---- it's like asking
> "how much does a rock weigh?"
> I encourage the CONVERTER approach.... Good luck with your
> project. These weekenders can be a lot of fun and very
> educational...
>
> Andy W4OAH in Eureka, Texas

Thanks, Andy. I think I've managed to find something a little better
than what I had in mind, anyway - Lindsay books sells a series of books
called the Impoverished Radio Experimenter. I've ordered two of them
that seem likely to have the information I need. My only concern now is
being able to run a tube receiver off of battery power, but I'm hoping
I can figure out something on my own.

Ralph Glatt

From -4887547689990624558
X-Google-Thread: fc2a5,ee2507c2ec9d294d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: A different view of the code test option
Date: Mon, 11 Dec 2006 06:57:09 -0800
Message-ID: <rdsqn2hdq34l89hksaj8c8nk11orkq7i9h@4ax.com>

```
References: <1165841619.210023.187380@j44g2000cwa.googlegroups.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node148-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1165836170 66.52.61.148 (11 Dec 2006 06:22:50 -0500)
Lines: 8
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.148
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed.hal-mli.net!feeder1.hal-mli.net!news.alt.net!
newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8195
```

Please folks, do not reply to these off topic posts.

If these idiots never get any replies, they will eventually give up
and go away.

Thanks,

Bill, W6WRT

```
From 6664703173357496863
X-Google-Thread: fcc6e,9770b54fa0752b0f
X-Google-Thread: fc2a5,8dffcadd3cfb0f1
X-Google-Thread: 107ada,8dffcadd3cfb0f1
X-Google-Thread: 10bf43,8dffcadd3cfb0f1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!n67g2000cwd.googlegroups.com!not-for-
mail
From: "Not Cocksucker Lloyd" <not_time_turd_lloyd@yahoo.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.ra
dio.amateur.policy
Subject: Re: Guide Lines for this news group
Date: 11 Dec 2006 06:58:11 -0800
Organization: http://groups.google.com
Lines: 86
Message-ID: <1165849091.300946.122660@n67g2000cwd.googlegroups.com>
References: <YHhch.49776$4Z1.24675@newsfe09.phx>
   <pve3n21b5p2no0et7ucgrfihn9iccen58g@4ax.com>
   <tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com>
   <1Zoch.6172$tM1.5232@newsread1.news.pas.earthlink.net>
   <1165116776.575952.37510@16g2000cwy.googlegroups.com>
   <3r2eh.8183$ql2.2149@newsread3.news.pas.earthlink.net>
   <pighn2hfsl332bn3rt0l7hdat6n569cq1j@4ax.com>
NNTP-Posting-Host: 65.54.98.27
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
```

```
X-Trace: posting.google.com 1165849097 29354 127.0.0.1 (11 Dec 2006 14:58:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 11 Dec 2006 14:58:17 +0000 (UTC)
In-Reply-To: <pighn2hfsl332bn3rt0l7hdat6n569cq1j@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n67g2000cwd.googlegroups.com; posting-host=65.54.98.27;
   posting-account=NYdx0Q0AAAACkSt6kWea8S56_8dZU8tl
Xref: g2news2.google.com rec.radio.amateur.antenna:22875
rec.radio.amateur.homebrew:8196 rec.radio.amateur.misc:27042
rec.radio.amateur.policy:57531


Mark@kb9rqz.aprs wrote:
> On Fri, 08 Dec 2006 00:35:11 GMT, Slow Code <my.mail@no.spam> wrote:
>
> >hot-ham-and-cheese@hotmail.com wrote in
> >news:1165116776.575952.37510@16g2000cwy.googlegroups.com:
> >
> >>
> >> Slow Code wrote:
> >>> Danny Richardson <n_group@k6mhe.com> wrote in
> >>> news:tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com:
> >>>
> >>> > On Sat, 02 Dec 2006 09:48:44 -0800, Bill Turner <noway@nowhow.com>
> >>> > wrote:
> >>> >
> >>> >>ORIGINAL MESSAGE:
> >>> >>
> >>> >>On Sat, 2 Dec 2006 08:19:07 -0800, "Caveat Lector" <CL@nowhere.com>
> >>> >> wrote:
> >>> >>
> >>> >>>Maybe this will help(a little) to get rid of the off topic posts
> >>> >>>
> >>> >>>For what this News Group is about and applicable guide lines see
> >>> >>>URL:
> >>> >>>
> >>> >>>http://www.faqs.org/faqs/radio/personal-intro/
> >>> >>>
> >>> >>>Thanks for reading
> >>> >>>73 CL
> >>> >>>
> >>> >>
> >>> >>------------ REPLY FOLLOWS ------------
> >>> >>
> >>> >>Dream on, CL. These guys already know that and they don't care. It's
> >>> >>been that way forever. It's the Curse of Usenet.
> >>> >>
> >>> >>Bill, W6WRT
> >>> >
> >>> > After years of resisting I'm ready for a moderated antenna group.
> >>> > I've used my kill filter more times in the last three months than
> >>> > I've ever done in the previous ten years.
> >>> >
> >>> > I, for one, am sick and tired of the foul-mouth off topic postings
> >>> > and, if that requires a moderated group to get rid of them it would
> >>> > be a very small price to pay.
> >>> >
> >>> > Danny,
> >>>
> >>>
> >>> I know what you mean Dan.
> >>
> >> No you don't.  You're one of the foul-mouthed off-topic posters that
> >> Dan is complaining about.
> >>
> >>> With the anticipation that ham radio is going
> >>> to get dumbed down again real soon, the dumb-it-downers
> >>
> >> It got "dumbed-down" when a license was issued to you.
> >>
> >> BTW, what is your call?
> >
> >
> >Don't worry about my callsign.
>
> why not we think you don't have one

Just like "an old friend" is yours?

> > Just keep practicing CW.
>
> why? BB fuinds it usles to what he interested in as do I

Making excuses for your laziness, Marqueer?

> > No matter how fast
> >and good you already are at it you can always improve your skills.
>
> so what?

So you want them to just give you the General license instead of
working for it.

> i suspect I am the best Swordmans in RRAP so what

BWHAHAHAHAHA No, Markie, you are a gay blade, not the sharp blade.



From -4184335693433291O4
X-Google-Thread: fc2a5,ee2507c2ec9d294d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!postnews.google.com!l12g2000cwl.googlegroups.com!not-for-mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: A different view of the code test option
Date: 11 Dec 2006 07:36:51 -0800
Organization: http://groups.google.com
Lines: 33
Message-ID: <1165851411.555463.246990@l12g2000cwl.googlegroups.com>
References: <1165841619.210023.187380@j44g2000cwa.googlegroups.com>
   <rdsqn2hdq34l89hksaj8c8nk11orkq7i9h@4ax.com>
NNTP-Posting-Host: 66.19.114.90
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165851417 3364 127.0.0.1 (11 Dec 2006 15:36:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 11 Dec 2006 15:36:57 +0000 (UTC)
In-Reply-To: <rdsqn2hdq34l89hksaj8c8nk11orkq7i9h@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98; DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l12g2000cwl.googlegroups.com; posting-host=66.19.114.90;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:8197

Bill Turner wrote:
> Please folks, do not reply to these off topic posts.
>
> If these idiots never get any replies, they will eventually give up
> and go away.
>
> Thanks,
>
> Bill, W6WRT

Andy writes:
  I agree with Bill W6WRT.

Since I have seen so many postings about this on this newsgroup, I
just ASSUMED that folks here wanted to talk about it.....

I did a "reply" using "google" to one of the other posts, and found
that it was multiply cross posted to a LOT of groups, meaning that
somebody just wanted to make a fuss...... TROLLING.....

I apologize to Bill, and everyone else here, for not looking more closely
at the subject before posting to rec.radio.amateur.homebrew

I can't say it won't happen again, ever, but I'll try to watch it in
the future, and would ENCOURAGE anyone who just hits a

"reply" button to check to see if it is being crossposted.... If it is,
please go to the group that is interested in it and don't plague
the newsgroups with spam....... as Bill and I have just done (grin)..

Andy W4OAH

From 8734869196312703977
X-Google-Thread: fc2a5,ee2507c2ec9d294d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: A different view of the code test option
Date: 11 Dec 2006 16:15:48 GMT
Organization: The National Capital FreeNet
Lines: 31
Message-ID: <elk07k$op5$1@theodyn.ncf.ca>
References: <1165841619.210023.187380@j44g2000cwa.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1165853748 25381 134.117.136.48 (11 Dec 2006 16:15:48 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 11 Dec 2006 16:15:48 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8198

"AndyS" (andysharpe@juno.com) writes:
> Andy writes
>   Well, I've read the posts here, as well as the vitriol being thrown
> around,

No, the posts aren't here, they are cross-posted by idiots who think
whatever it is they have to say is so important that they need to spew
it across the newsgroups.

If you really wanted to address the issue, then you go elsewhere to
post, where such posts belong. At the very least, and you should always
think twice about it, you reply to the cross-posted junk rather than
start a new thread that is only in rec.radio.amateur.homebrew YOu can
even reply to those existing threads and take out the irrelevant newsgroups,
such as this one.

For most of a decade (and likely before) we've been relatively isolated,
as if the people who do all that cross-posting don't think that building
radio equipment is actually part of the hobby. But their need to spread
their junk has meant don't keep it in rec.radio.amateur.policy where it
belongs, they don't even keep it there and in rec.radio.amateur.misc
where it was often kept until relatively, they spew to all kinds of newsgroups
as they catch on that there are other ones. So they spew into
rec.radio.shortwave, and the spew into the more technical newsgroups like

this one and rec.radio.amateur.antenna

LIke Bill Turner said, don't reply to them. But that doesn't mean starting the arguments here in standalone threads, either.

Michael VE2BVW

From 7031050685457525710
X-Google-Thread: fc2a5,ee2507c2ec9d294d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: A different view of the code test option
Date: 11 Dec 2006 17:26:15 GMT
Lines: 24
Message-ID: <slrnenr55n.1mvs.bit-bucket@shell.config.com>
References: <1165841619.210023.187380@j44g2000cwa.googlegroups.com>
<rdsqn2hdq34l89hksaj8c8nk11orkq7i9h@4ax.com>
<1165851411.555463.246990@l12g2000cwl.googlegroups.com>
Reply-To: Reply to the .sig address <NOSPAM_bit-bucket@config.com>
X-Trace: individual.net tTrgrTkdSwoPrxhcvpaTNwIYoPlJYLnepB0OqbyW3yJO4kcm1o
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8199

On 11 Dec 2006 07:36:51 -0800, AndyS wrote:

> Bill Turner wrote:
>> Please folks, do not reply to these off topic posts.
>> If these idiots never get any replies, they will eventually give up
>> and go away.
>>
>> Bill, W6WRT
>
> Andy writes:
>   I agree with Bill W6WRT.

If everybody would just take step one: Killfile postings from Google.

The OP:
Message-ID: <1165841619.210023.187380@j44g2000cwa.googlegroups.com>

Each posting that Bill has commented on in the rec.radio.amateur.* ng's was ooze emanating from Google.

Jonesy -- never seeing Google posts, but forced to wade past the followups.

```
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    *** Killfiling google posts: <http//jonz.net/ng.htm>
```

```
From 5310520699559877453
X-Google-Thread: fcc6e,9770b54fa0752b0f
X-Google-Thread: fc2a5,8dffcadd3cfb0f1
X-Google-Thread: 107ada,8dffcadd3cfb0f1
X-Google-Thread: 10bf43,8dffcadd3cfb0f1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.ra
dio.amateur.policy
Subject: Re: Guide Lines for this news group
Date: Mon, 11 Dec 2006 12:42:28 -0500
Message-ID: <116rn2hktrg8jqafbmrmbra120sv9ei4vi@4ax.com>
References: <YHhch.49776$4Z1.24675@newsfe09.phx>
<pve3n21b5p2no0et7ucgrfihn9iccen58g@4ax.com>
<tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com>
<1Zoch.6172$tM1.5232@newsread1.news.pas.earthlink.net>
<1165116776.575952.37510@16g2000cwy.googlegroups.com>
<3r2eh.8183$ql2.2149@newsread3.news.pas.earthlink.net>
<pighn2hfsl332bn3rt0l7hdat6n569cq1j@4ax.com>
<1165849091.300946.122660@n67g2000cwd.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 101
NNTP-Posting-Date: 11 Dec 2006 16:47:56 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:22892
rec.radio.amateur.homebrew:8200 rec.radio.amateur.misc:27046
rec.radio.amateur.policy:57539

On 11 Dec 2006 06:58:11 -0800, "Not Cocksucker Lloyd"
<not_time_turd_lloyd@yahoo.com> wrote:

>
>Mark@kb9rqz.aprs wrote:
>> On Fri, 08 Dec 2006 00:35:11 GMT, Slow Code <my.mail@no.spam> wrote:
>>
>> >hot-ham-and-cheese@hotmail.com wrote in
>> >news:1165116776.575952.37510@16g2000cwy.googlegroups.com:
>> >
>> >>
>> >> Slow Code wrote:
>> >>> Danny Richardson <n_group@k6mhe.com> wrote in
>> >>> news:tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com:
>> >>>
>> >>> > On Sat, 02 Dec 2006 09:48:44 -0800, Bill Turner <noway@nowhow.com>
>> >>> > wrote:
>> >>> >
>> >>> >>ORIGINAL MESSAGE:
>> >>> >>
>> >>> >>On Sat, 2 Dec 2006 08:19:07 -0800, "Caveat Lector" <CL@nowhere.com>
>> >>> >> wrote:
>> >>> >>
>> >>> >>>Maybe this will help(a little) to get rid of the off topic posts
>> >>> >>>
>> >>> >>>For what this News Group is about and applicable guide lines see
>> >>> >>>URL:
>> >>> >>>
>> >>> >>>http://www.faqs.org/faqs/radio/personal-intro/
>> >>> >>>
>> >>> >>>Thanks for reading
>> >>> >>>73 CL
>> >>> >>>
>> >>> >>
>> >>> >>------------ REPLY FOLLOWS ------------
>> >>> >>
>> >>> >>Dream on, CL. These guys already know that and they don't care. It's
>> >>> >>been that way forever. It's the Curse of Usenet.
>> >>> >>
>> >>> >>Bill, W6WRT
>> >>> >
>> >>> > After years of resisting I'm ready for a moderated antenna group.
>> >>> > I've used my kill filter more times in the last three months than
>> >>> > I've ever done in the previous ten years.
>> >>> >
>> >>> > I, for one, am sick and tired of the foul-mouth off topic postings
>> >>> > and, if that requires a moderated group to get rid of them it would
>> >>> > be a very small price to pay.
>> >>> >
>> >>> > Danny,
>> >>>
>> >>>
>> >>> I know what you mean Dan.
>> >>
>> >> No you don't.  You're one of the foul-mouthed off-topic posters that
>> >> Dan is complaining about.
>> >>
>> >>> With the anticipation that ham radio is going
>> >>> to get dumbed down again real soon, the dumb-it-downers
>> >>
>> >> It got "dumbed-down" when a license was issued to you.
>> >>
>> >> BTW, what is your call?
>> >
>> >
>> >Don't worry about my callsign.
>>
>> why not we think you don't have one
>
```

>Just like "an old friend" is yours?

never said it was

my call is kb9rqz

>
>> > Just keep practicing CW.
>>
>> why? BB fuinds it usles to what he interested in as do I
>
>Making excuses for your laziness, Marqueer?

stating facts woger
>
>> > No matter how fast
>> >and good you already are at it you can always improve your skills.
>>
>> so what?
>
>So you want them to just give you the General license instead of
>working for it.

no I don't I want a test that relates to the prevledges grranted
>
>> i suspect I am the best Swordmans in RRAP so what
>
>BWHAHAHAHAHA No, Markie, you are a gay blade, not the sharp blade.

well woger if you ever decided to comit trespassing and get close
enough you willfind out
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -6475991958087799458
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!sn-xt-sjc-04!sn-xt-sjc-07!sn-xt-sjc-12!supernews.com!nntp.csufresno.edu!news.tamu.edu!news.smu.edu!news.ti.com!not-for-mail
From: no@pottedmeatproduct.com (David)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave
Date: 11 Dec 2006 18:35:37 GMT
Organization: Texas Instruments
Lines: 22
Message-ID: <Xns98967ABFDhatchdavidticom@157.170.133.60>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>

```
<1165840350.029509.309650@79g2000cws.googlegroups.com>
NNTP-Posting-Host: tuc00801.dhcp.tu.sc.ti.com
X-Trace: home.itg.ti.com 1165862137 12609 146.252.69.191 (11 Dec 2006 18:35:37
GMT)
X-Complaints-To: usenet@news.ti.com
NNTP-Posting-Date: 11 Dec 2006 18:35:37 GMT
User-Agent: Xnews/03.12.21
Xref: g2news2.google.com rec.radio.amateur.homebrew:8201

"AndyS" <andysharpe@juno.com> wrote in <1165840350.029509.309650@
79g2000cws.googlegroups.com>:

>    In my opinion, the easiest, most non-destructive way to do this
>is to add a converter, using the AM radio as a tuneable IF for
>AM transmissions.

Agreed.

>And you can still listen to Rush Limbaugh by switching off the
>converter....

Or when you switch it on...

http://www.techlib.com/files/rushconv.pdf

Pick your 1MHz band, and tune away. You'll need to tweek a bit if
you want to be very far from 15 MHz.

--
David Hatch
KR7DH


From 2922741548102961025
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!16g2000cwy.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave
Date: 11 Dec 2006 16:06:34 -0800
Organization: http://groups.google.com
Lines: 26
Message-ID: <1165881994.568044.91200@16g2000cwy.googlegroups.com>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
   <1165840350.029509.309650@79g2000cws.googlegroups.com>
   <Xns98967ABFDhatchdavidticom@157.170.133.60>
NNTP-Posting-Host: 66.19.114.154
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165882000 11940 127.0.0.1 (12 Dec 2006 00:06:40 GMT)
```

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 12 Dec 2006 00:06:40 +0000 (UTC)
In-Reply-To: <Xns98967ABFDhatchdavidticom@157.170.133.60>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 16g2000cwy.googlegroups.com; posting-host=66.19.114.154;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:8202
```

David wrote:

> http://www.techlib.com/files/rushconv.pdf
>
> Pick your 1MHz band, and tune away. You'll need to tweek a bit if
> you want to be very far from 15 MHz.
>
> --
> David Hatch
> KR7DH

Andy comments:

Excellent, David !!! Thanks for the circuit. Note that it can easily be modified to get WWV also...... I suspect one could use a CA3028 if one wanted to build it with a single IC, for some reason...

Yet another simple converter can be made using a NE602. I don't have a circuit handy, but it can easily be designed from the data sheet.

Andy W4OAH

PS I'm going to check out 15.42 Mhz --- I hadn't messed with it before.....

```
From 3919120321147568098
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.kjsl.com!ncf.ca!
FreeNet.Carleton.CA!bg998
From: bg998@FreeNet.Carleton.CA (Martin Potter)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave
Date: 12 Dec 2006 00:08:46 GMT
Organization: The National Capital FreeNet
Lines: 17
Message-ID: <elkrue$bj6$1@theodyn.ncf.ca>
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
```

```
<1165840350.029509.309650@79g2000cws.googlegroups.com>
<Xns98967ABFDhatchdavidticom@157.170.133.60>
Reply-To: bg998@FreeNet.Carleton.CA (Martin Potter)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1165882126 11878 134.117.136.48 (12 Dec 2006 00:08:46 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 12 Dec 2006 00:08:46 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8203

David (no@pottedmeatproduct.com) writes:
>
> Pick your 1MHz band, and tune away. You'll need to tweek a bit if
> you want to be very far from 15 MHz.
>

If you choose the 31 and 25 metre bands you can receive both with one
crystal in the oscillator.  Many years ago I built a simple converter
using a 10.7 MHz crystal and a tunable front end so I could tune 31 m band
(osc on the high side) and the 25 m band (osc on the low side).  Don't
remember now where I got the circuit but it worked very well with a
standard (in those days!) car radio antenna.

... Martin    VE3OAT





From 5177782911759244927
X-Google-Thread: fc2a5,77a8abd4a534b187
X-Google-Thread: 10bf43,77a8abd4a534b187
X-Google-Thread: 114aac,7da1d4d770f90e92
X-Google-Thread: 1109af,77a8abd4a534b187
X-Google-Attributes: gidfc2a5,gid10bf43,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!16g2000cwy.googlegroups.com!not-for-
mail
From: hot-ham-and-cheese@hotmail.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.shortwave,rec.radio.
swap
Subject: Re: Call for Action-CW Advocacy organization
Date: 11 Dec 2006 16:22:53 -0800
Organization: http://groups.google.com
Lines: 37
Message-ID: <1165882973.657407.139430@16g2000cwy.googlegroups.com>
References: <12ngg4j105cjp01@corp.supernews.com>
   <telamon_spamshield-F6A0EB.18540107122006@newsclstr02.news.prodigy.com>
   <HTIeh.8314$sf5.2493@newsread4.news.pas.earthlink.net>
   <1165786440.798219.73220@73g2000cwn.googlegroups.com>
   <e01pn2ln6tad6fcuems5c9jr1ik5lkm7os@4ax.com>
NNTP-Posting-Host: 4.225.97.67
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165882979 19335 127.0.0.1 (12 Dec 2006 00:22:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 12 Dec 2006 00:22:59 +0000 (UTC)
In-Reply-To: <e01pn2ln6tad6fcuems5c9jr1ik5lkm7os@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 16g2000cwy.googlegroups.com; posting-host=4.225.97.67;
   posting-account=mMyuWQ0AAAANPpX1wK2NRuuQfAjm_kIo
Xref: g2news2.google.com rec.radio.amateur.homebrew:8204
rec.radio.amateur.policy:57581 rec.radio.shortwave:61109 rec.radio.swap:10663


Mark@kb9rqz.aprs wrote:
> On 10 Dec 2006 13:34:00 -0800, hot-ham-and-cheese@hotmail.com wrote:
>
> >
> >Maxwell Plonk wrote:
> >> Telamon <telamon_spamshield@pacbell.net.is.invalid> wrote in
> >> news:telamon_spamshield-F6A0EB.18540107122006@newsclstr02.news.prodigy.com:
> >>
> >> > In article <12ngg4j105cjp01@corp.supernews.com>,
> >> >  "FedUP" <fedup@intergate.com> wrote:
> >> >
> >> >>      This is not a warm and fuzzy "feel good" letter like much of the
> >> >> baloney you read in the ham radio press.
> >> >
> >> > < Snip >
> >> >
> >> > Nobody cares.
> >> >
> >> > < Plonk >
> >>
> >>
> >> You don't care because you're a Lazy ass and don't want to be a skilled
> >> radio hobbiest, but there are a lot of us out here that do care and want
> >> to be skilled. When you need help with anything your sorry ass is going to
> >> be calling on us skilled operators for help.
> >>
> >> Max
> >
> >Max, max, max, lighten up.  Nobody is asking for your help.
>
> he can't anymore than Robeson and Heil and Flint and SC they all MUST
> control the livies and hobbies of others

If Kelly can take an ignition coil as a wee little Cubscout and turn it
into a transmitter -all by himself...
```

```
From -5526949136253719361
X-Google-Thread: fc2a5,77a8abd4a534b187
X-Google-Thread: 10bf43,77a8abd4a534b187
X-Google-Thread: 114aac,7da1d4d770f90e92
X-Google-Thread: 1109af,77a8abd4a534b187
X-Google-Attributes: gidfc2a5,gid10bf43,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!newsgate.cistron.nl!
xs4all!news2.euro.net!66.150.105.54.MISMATCH!nntpserver.com!zeus.nntpserver.com!
hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.shortwave,rec.radio.
swap
Subject: Re: Call for Action-CW Advocacy organization
Date: Mon, 11 Dec 2006 19:29:59 -0500
Message-ID: <0utrn29rl11ljcrchot329gfejm2s7nkjt@4ax.com>
References: <12ngg4j105cjp01@corp.supernews.com> <telamon_spamshield-
F6A0EB.18540107122006@newsclstr02.news.prodigy.com>
<HTIeh.8314$sf5.2493@newsread4.news.pas.earthlink.net>
<1165786440.798219.73220@73g2000cwn.googlegroups.com>
<e01pn2ln6tad6fcuems5c9jr1ik5lkm7os@4ax.com>
<1165882973.657407.139430@16g2000cwy.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 44
NNTP-Posting-Date: 11 Dec 2006 23:35:28 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8205
rec.radio.amateur.policy:57584 rec.radio.shortwave:61112 rec.radio.swap:10664

On 11 Dec 2006 16:22:53 -0800, hot-ham-and-cheese@hotmail.com wrote:

>
>Mark@kb9rqz.aprs wrote:
>> On 10 Dec 2006 13:34:00 -0800, hot-ham-and-cheese@hotmail.com wrote:
>>
>> >
>> >Maxwell Plonk wrote:
>> >> Telamon <telamon_spamshield@pacbell.net.is.invalid> wrote in
>> >> news:telamon_spamshield-F6A0EB.18540107122006@newsclstr02.news.prodigy.com:
>> >>
>> >> > In article <12ngg4j105cjp01@corp.supernews.com>,
>> >> >  "FedUP" <fedup@intergate.com> wrote:
>> >> >
>> >> >>      This is not a warm and fuzzy "feel good" letter like much of the
>> >> >> baloney you read in the ham radio press.
>> >> >
>> >> > < Snip >
>> >> >
>> >> > Nobody cares.
```

>> >> >
>> >> > < Plonk >
>> >>
>> >>
>> >> You don't care because you're a Lazy ass and don't want to be a skilled
>> >> radio hobbiest, but there are a lot of us out here that do care and want
>> >> to be skilled. When you need help with anything your sorry ass is going to
>> >> be calling on us skilled operators for help.
>> >>
>> >> Max
>> >
>> >Max, max, max, lighten up. Nobody is asking for your help.
>>
>> he can't anymore than Robeson and Heil and Flint and SC they all MUST
>> control the livies and hobbies of others
>
>If Kelly can take an ignition coil as a wee little Cubscout and turn it
>into a transmitter -all by himself...

well then I can build another copy of 6m am set given I use partsform
a replica type phone made to look like the 50's it was irrestable to
an old timer
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

---

From 2839751701973413567
X-Google-Thread: fcc6e,fa5bceb897bb6887,start
X-Google-Thread: fc2a5,ee2507c2ec9d294d
X-Google-Thread: 10bf43,fa5bceb897bb6887,start
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!
stamper.news.pas.earthlink.net!newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!
not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: A different view of the code test option
From: Slow Code <my.mail@no.spam>
References: <1165841619.210023.187380@j44g2000cwa.googlegroups.com>
<rdsqn2hdq34l89hksaj8c8nk11orkq7i9h@4ax.com>
<1165851411.555463.246990@l12g2000cwl.googlegroups.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 33
Message-ID: <QTmfh.8544$sf5.4566@newsread4.news.pas.earthlink.net>
Date: Tue, 12 Dec 2006 00:40:16 GMT
NNTP-Posting-Host: 4.254.225.94

```
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1165884016 4.254.225.94 (Mon, 11 Dec
2006 16:40:16 PST)
NNTP-Posting-Date: Mon, 11 Dec 2006 16:40:16 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:22911
rec.radio.amateur.homebrew:8206 rec.radio.amateur.policy:57585

"AndyS" <andysharpe@juno.com> wrote in
news:1165851411.555463.246990@l12g2000cwl.googlegroups.com:

>
> Bill Turner wrote:
>> Please folks, do not reply to these off topic posts.
>>
>> If these idiots never get any replies, they will eventually give up
>> and go away.
>>
>> Thanks,
>>
>> Bill, W6WRT
>
> Andy writes:
>   I agree with Bill W6WRT.
>
> Since I have seen so many postings about this on this newsgroup, I
> just ASSUMED that folks here wanted to talk about it.....


Andy,  Welcome to the group.

A lot of people here want to talk about it and find your point of view on
CW interesting reading.  Just ignore Bill Turdner. Don't let his insults
bother you, he likes to act like an asshole sometimes.  If the ship he
was on was sinking he wouldn't know about it until he was drowning.  As
far as your view that CW is just a hurdle to getting a license, I vote for
keeping the hurdle.  At least when they get licensed they have a skill
then.  To many of them just want to get a license and talk on a
microphone.  Any CB'er can to that.

SC



From 1329435159778093427
X-Google-Thread: fcc6e,fa5bceb897bb6887
X-Google-Thread: fc2a5,ee2507c2ec9d294d
X-Google-Thread: 10bf43,fa5bceb897bb6887
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy
```

```
Subject: kookathon
Date: Mon, 11 Dec 2006 19:48:06 -0500
Message-ID: <81vrn21tfaqmuqpq4lu02lnl6fgqge55l9@4ax.com>
References: <1165841619.210023.187380@j44g2000cwa.googlegroups.com>
<rdsqn2hdq34l89hksaj8c8nk11orkq7i9h@4ax.com>
<1165851411.555463.246990@l12g2000cwl.googlegroups.com>
<QTmfh.8544$sf5.4566@newsread4.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 30
NNTP-Posting-Date: 11 Dec 2006 23:53:36 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:22915
rec.radio.amateur.homebrew:8207 rec.radio.amateur.policy:57597

On Tue, 12 Dec 2006 00:40:16 GMT, Slow Code <my.mail@no.spam> wrote:

>"AndyS" <andysharpe@juno.com> wrote in
>news:1165851411.555463.246990@l12g2000cwl.googlegroups.com:
>
>>
>> Bill Turner wrote:
>>> Please folks, do not reply to these off topic posts.
>>>
>>> If these idiots never get any replies, they will eventually give up
>>> and go away.
>>>
>>> Thanks,
>>>
>>> Bill, W6WRT
>>
>> Andy writes:
>>   I agree with Bill W6WRT.
>>
>> Since I have seen so many postings about this on this newsgroup, I
>> just ASSUMED that folks here wanted to talk about it.....
>
>
>Andy,  Welcome to the group.
>
>A lot of people here want to talk about it and find your point of view on
>CW interesting reading.

really?
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com
```

```
From -3397702084711223593
X-Google-Thread: fc2a5,ce153bacb0985428
X-Google-Thread: fc8b1,ce153bacb0985428
X-Google-Thread: 108122,ce153bacb0985428
X-Google-Thread: 111d0a,ce153bacb0985428
X-Google-Thread: 113975,ce153bacb0985428
X-Google-Attributes: gidfc2a5,gidfc8b1,gid108122,gid111d0a,gid113975,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!elnk-atl-nf1!newsfeed.earthlink.net!uns-out.usenetserver.com!
news.usenetserver.com!pc02.usenetserver.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.amateur.equipme
nt,sci.electronics.basics,sci.astro.amateur
References: <1165673325.215679.235050@73g2000cwn.googlegroups.com>
Subject: Re: SolderSmoke #43: LP Filters, Titan, Feedback amps, Return Loss
Bridges, "Gonzo Gizmos"
Date: Mon, 11 Dec 2006 20:44:07 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <33bf7$457e174e$45011502$15699@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 61
X-Trace: 33bf7457e174ee0a4b0a715699
Xref: g2news2.google.com rec.radio.amateur.homebrew:8208
rec.radio.amateur.boatanchors:6684 rec.radio.amateur.equipment:7539
sci.electronics.basics:30486 sci.astro.amateur:46629


<bill.meara@gmail.com> wrote in message
news:1165673325.215679.235050@73g2000cwn.googlegroups.com...
> SolderSmoke!
> A SHOW FOR ELECTRONICS HOMEBREWERS!
>
> http://www.soldersmoke.com
>
> Listen at: http://www.soldersmoke.com
>
> SolderSmoke    #43  December 9, 2006
> -- LP filters.
> -- Feedback on feedback (in amps).
> -- Return loss calc.
> -- Exploring Titan.
> -- London tornado.
> -- Maxwell's equations.
> -- TRS 80 Model 100.
> -- Name-that-Noise.
> -- Book: "Gonzo Gizmos."
```

> -- MAILBAG: AK9N, N2NLY, NR5A, Ramakrishnan
>
> Tired of listening to Led Zepplin or NPR on your
> I-Pod?   Wouldn't you like to be able to carry with
> you the kinds of ham radio conversations that you
> listen to while in your radio shack?
> Mike, KL7R, in Juneau, Alaska, and Bill, M0HBR, in
> London, England meet regularly on the ECHOLINK system
> to discuss their homebrew radio projects. We are
> making them available as PODCASTS.
>
> RSS FEED: You can subscribe to the program, have
> them downloaded to your MP-3 player, and listen to
> them at your convenience. To subscribe, just cut and
> paste this URL into your I-poder (or similar)
> software.
> http://www.soldersmoke.com/soldersmoke.rss
>
> If you don't have an MP3 player you can just go to the
> site below and listen to the latest program (and
> earlier editions) using the audio software on your
> computer.
>
> http://www.soldersmoke.com
>
> All our programs are available here.
>
> We hope you enjoy the program. Please send us
> feedback.
>
> 73 from London
> Bill M0HBR N2CQR CU2JL
> http://www.gadgeteer.us
>

Hi Bill,
I can't get this address to display anything.
> http://www.soldersmoke.com/soldersmoke.rss

I want to download to a mp3.
Mike

From -4868195080944991065
X-Google-Thread: fc2a5,9d262968912f769f,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!news1.optus.net.au!optus!newsfeeder.syd.optusnet.com.au!news.optusnet.com.au!not-for-mail
From: "Newsgroup" <ldenker@optusnet.com.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Communucation concepts eb104

```
Date: Tue, 12 Dec 2006 21:37:11 +1100
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.5744.16384
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.5744.16384
Lines: 3
Message-ID: <457e8664$0$9776$afc38c87@news.optusnet.com.au>
NNTP-Posting-Host: 58.108.49.162
X-Trace: 1165919844  9776 58.108.49.162
Xref: g2news2.google.com rec.radio.amateur.homebrew:8209

I am currently in the process of building a eb104 kit. has anyone else built
one of these kits.  What are your thought on this amplifier.




From 4603567089128594555
X-Google-Thread: fc2a5,ce153bacb0985428
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe24.lga.POSTED!53ab2750!not-for-mail
From: Sam Morgan <ndahouse@cox.net>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SolderSmoke #43: LP Filters, Titan, Feedback amps, Return Loss
 Bridges, "Gonzo Gizmos"
References: <1165673325.215679.235050@73g2000cwn.googlegroups.com>
<33bf7$457e174e$45011502$15699@KNOLOGY.NET>
In-Reply-To: <33bf7$457e174e$45011502$15699@KNOLOGY.NET>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 12
Message-ID: <hLwfh.5234$a14.1403@newsfe24.lga>
Date: Tue, 12 Dec 2006 05:53:50 -0600
NNTP-Posting-Host: 70.185.138.222
X-Complaints-To: admin@cox.net
X-Trace: newsfe24.lga 1165924429 70.185.138.222 (Tue, 12 Dec 2006 04:53:49 MST)
NNTP-Posting-Date: Tue, 12 Dec 2006 04:53:49 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:8210

amdx wrote:
>  I can't get this address to display anything.
>> http://www.soldersmoke.com/soldersmoke.rss
> I want to download to a mp3.
```

>
Right click on the link on the left side of the page.
(Selecting the specific show you want to download 1 through 43.)
then select save as......

example: the < http://www.soldersmoke.com/soldersmoke43.mp3 > link

Or copy and paste the url into winamp or what ever is your mp3 player.

```
From 8775865555195093247
X-Google-Thread: fc2a5,9d262968912f769f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 12 Dec 2006 07:40:49 -0600
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <457e8664$0$9776$afc38c87@news.optusnet.com.au>
Subject: Re: Communucation concepts eb104
Date: Tue, 12 Dec 2006 07:40:46 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <WKydnSCHhtr8LOPYnZ2dnUVZ_ompnZ2d@comcast.com>
Lines: 29
NNTP-Posting-Host: 67.176.141.93
X-Trace: sv3-gxfb4qTz8rjcf7zKtm88A0Du8W5InG3qcoRVoBiwsJpdVyASh2fQL/uOcD6NWYXuZeKD/
6Y+J6iVQl9!
s8EVjk8vO6DkwPHv3NUM3t7lOzVQ+yjcRGjCjnIQGgiBTfR2DoojYoJjzGfDOK1uKVVcaTCb8kpk!
dKf7vzWsMuKSoze4whc=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8211
```

AS with any high powered RF device -- or even Pentium 4 microprocessors --
thermal design and proper thermal construction is CRITICAL,
I would use a copper spreader for building this amplifier due to the close
proximity of the 4 RF transistors.

This is NOT a beginner's project or kit
Here are other web sites with thoughts and construction details, notes.

http://www.eham.net/forums/Amplifiers/2417

K9GDT version
http://www.qsl.net/k9gdt/radio/600w/600w.htm

http://oh8jep.kotinet.com/eb104.html
http://oh8jep.50webs.com/project.html

http://k6if.com/v-web/bulletin/bb/viewtopic.php?
p=87&sid=53a9be318ebea999fcbd8c55e69539e4

http://www.amy.hi-ho.ne.jp/h_harada/EB104.htm

gb

"Newsgroup" <ldenker@optusnet.com.au> wrote in message
news:457e8664$0$9776$afc38c87@news.optusnet.com.au...
>I am currently in the process of building a eb104 kit. has anyone else
>built one of these kits. What are your thought on this amplifier.

From 3600490768612102060
X-Google-Thread: fc2a5,a6e8a3a95bc0ff1f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!64.59.134.4.MISMATCH!
pd7cy3no!pd7cy4no!shaw.ca!pd7urf2no.POSTED!53ab2750!not-for-mail
X-Trace-PostClient-IP: 70.64.113.7
From: Yukio YANO <yano@shaw.ca>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Converting AM Car Radio to Shortwave
References: <1165805804.508375.266480@f1g2000cwa.googlegroups.com>
<1165840350.029509.309650@79g2000cws.googlegroups.com>
<1165848660.983456.12930@j44g2000cwa.googlegroups.com>
In-Reply-To: <1165848660.983456.12930@j44g2000cwa.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 24
Message-ID: <SAyfh.464203$1T2.143592@pd7urf2no>
Date: Tue, 12 Dec 2006 13:59:14 GMT
NNTP-Posting-Host: 24.66.94.143
X-Complaints-To: abuse@shaw.ca
X-Trace: pd7urf2no 1165931954 24.66.94.143 (Tue, 12 Dec 2006 06:59:14 MST)
NNTP-Posting-Date: Tue, 12 Dec 2006 06:59:14 MST
Organization: Shaw Residential Internet
Xref: g2news2.google.com rec.radio.amateur.homebrew:8212

julian814 wrote:
> AndyS wrote:

>
>>
>>   Andy W4OAH in Eureka, Texas
>
> Thanks, Andy. I think I've managed to find something a little better
> than what I had in mind, anyway - Lindsay books sells a series of books
> called the Impoverished Radio Experimenter. I've ordered two of them
> that seem likely to have the information I need. My only concern now is
> being able to run a tube receiver off of battery power, but I'm hoping
> I can figure out something on my own.
>
>
> Ralph Glatt
>

TUBES!! Tubes? Off of Battery, 6 Volt?, Vibrator? Inverter? 12 Volt B+
tubes ? Not since the 1950s ?
Am I reading too much between the lines ?

Yukio YANO, VE5YS

Except for the audio output stage, we can now run a radio on the power
used to to light the Dial on a Tubes Era Radio !

```
From -4977819980344518229
X-Google-Thread: fcc6e,9770b54fa0752b0f
X-Google-Thread: fc2a5,8dffcadd3cfb0f1
X-Google-Thread: 107ada,8dffcadd3cfb0f1
X-Google-Thread: 10bf43,8dffcadd3cfb0f1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!n67g2000cwd.googlegroups.com!not-for-
mail
From: "Not Cocksucker Lloyd" <not_time_turd_lloyd@yahoo.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.ra
dio.amateur.policy
Subject: Re: Guide Lines for this news group
Date: 12 Dec 2006 06:03:05 -0800
Organization: http://groups.google.com
Lines: 119
Message-ID: <1165932185.379791.290250@n67g2000cwd.googlegroups.com>
References: <YHhch.49776$4Z1.24675@newsfe09.phx>
   <pve3n21b5p2no0et7ucgrfihn9iccen58g@4ax.com>
   <tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com>
   <1Zoch.6172$tM1.5232@newsread1.news.pas.earthlink.net>
   <1165116776.575952.37510@16g2000cwy.googlegroups.com>
   <3r2eh.8183$ql2.2149@newsread3.news.pas.earthlink.net>
   <pighn2hfsl332bn3rt0l7hdat6n569cq1j@4ax.com>
   <1165849091.300946.122660@n67g2000cwd.googlegroups.com>
   <116rn2hktrg8jqafbmrmbra120sv9ei4vi@4ax.com>
NNTP-Posting-Host: 65.54.155.51
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165932191 10861 127.0.0.1 (12 Dec 2006 14:03:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 12 Dec 2006 14:03:11 +0000 (UTC)
In-Reply-To: <116rn2hktrg8jqafbmrmbra120sv9ei4vi@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n67g2000cwd.googlegroups.com; posting-host=65.54.155.51;
   posting-account=NYdx0Q0AAAACkSt6kWea8S56_8dZU8tl
Xref: g2news2.google.com rec.radio.amateur.antenna:22947
rec.radio.amateur.homebrew:8213 rec.radio.amateur.misc:27098
rec.radio.amateur.policy:57625


Mark@kb9rqz.aprs wrote:
> On 11 Dec 2006 06:58:11 -0800, "Not Cocksucker Lloyd"
> <not_time_turd_lloyd@yahoo.com> wrote:
>
> >
> >Mark@kb9rqz.aprs wrote:
> >> On Fri, 08 Dec 2006 00:35:11 GMT, Slow Code <my.mail@no.spam> wrote:
> >>
> >> >hot-ham-and-cheese@hotmail.com wrote in
> >> >news:1165116776.575952.37510@16g2000cwy.googlegroups.com:
> >> >
> >> >>
> >> >> Slow Code wrote:
> >> >>> Danny Richardson <n_group@k6mhe.com> wrote in
> >> >>> news:tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com:
> >> >>>
> >> >>> > On Sat, 02 Dec 2006 09:48:44 -0800, Bill Turner <noway@nowhow.com>
> >> >>> > wrote:
> >> >>> >
> >> >>> >>ORIGINAL MESSAGE:
> >> >>> >>
> >> >>> >>On Sat, 2 Dec 2006 08:19:07 -0800, "Caveat Lector" <CL@nowhere.com>
> >> >>> >> wrote:
> >> >>> >>
> >> >>> >>>Maybe this will help(a little) to get rid of the off topic posts
> >> >>> >>>
> >> >>> >>>For what this News Group is about and applicable guide lines see
> >> >>> >>>URL:
> >> >>> >>>
> >> >>> >>>http://www.faqs.org/faqs/radio/personal-intro/
> >> >>> >>>
> >> >>> >>>Thanks for reading
> >> >>> >>>73 CL
> >> >>> >>>
> >> >>> >>
> >> >>> >>------------ REPLY FOLLOWS ------------
> >> >>> >>
```

> >> >>> >>Dream on, CL. These guys already know that and they don't care. It's
> >> >>> >>been that way forever. It's the Curse of Usenet.
> >> >>> >>
> >> >>> >>Bill, W6WRT
> >> >>> >
> >> >>> > After years of resisting I'm ready for a moderated antenna group.
> >> >>> > I've used my kill filter more times in the last three months than
> >> >>> > I've ever done in the previous ten years.
> >> >>> >
> >> >>> > I, for one, am sick and tired of the foul-mouth off topic postings
> >> >>> > and, if that requires a moderated group to get rid of them it would
> >> >>> > be a very small price to pay.
> >> >>> >
> >> >>> > Danny,
> >> >>>
> >> >>>
> >> >>> I know what you mean Dan.
> >> >>
> >> >> No you don't. You're one of the foul-mouthed off-topic posters that
> >> >> Dan is complaining about.
> >> >>
> >> >>> With the anticipation that ham radio is going
> >> >>> to get dumbed down again real soon, the dumb-it-downers
> >> >>
> >> >> It got "dumbed-down" when a license was issued to you.
> >> >>
> >> >> BTW, what is your call?
> >> >
> >> >
> >> >Don't worry about my callsign.
> >>
> >> why not we think you don't have one
> >
> >Just like "an old friend" is yours?
>
> never said it was

But you claim to post under your own name.

> my call is kb9rqz

That's still not a name, stupid.

>
> >
> >> > Just keep practicing CW.
> >>
> >> why? BB fuinds it usles to what he interested in as do I
> >
> >Making excuses for your laziness, Marqueer?
>
> stating facts woger

```
When are you going to start, Marqueer?

> >
> >> > No matter how fast
> >> >and good you already are at it you can always improve your skills.
> >>
> >> so what?
> >
> >So you want them to just give you the General license instead of
> >working for it.
>
> no I don't I want a test that relates to the prevledges grranted

So you admit to being a lazy fat fuck who just wants their HF
privileges handed to them instead of working for it.

> >
> >> i suspect I am the best Swordmans in RRAP so what
> >
> >BWHAHAHAHAHA No, Markie, you are a gay blade, not the sharp blade.
>
> well woger if you ever decided to comit trespassing and get close
> enough you willfind out

Why,  Dishonorably discharged felons like you can't own weapons. All
you will do is sit on your fat queer ass and whine, like you do on the
newsgroups.



From 7716675066654738223
X-Google-Thread: 10ed5f,dc19b896dd89980a,start
X-Google-Thread: 114a57,dc19b896dd89980a,start
X-Google-Thread: f7796,dc19b896dd89980a,start
X-Google-Thread: fc2a5,dc19b896dd89980a,start
X-Google-Attributes: gid10ed5f,gid114a57,gidf7796,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 07 Dec 2006 15:33:57 -0600
Newsgroups: alt.ham-radio,alt.ham-radio.hf,alt.ham-
radio.morse,rec.radio.amateur.homebrew
From: notbob <notbob@nothome.com>
Subject: James Kim: new vs old tech
Organization: ...little, if any
Followup-To: alt.ham-radio,alt.ham-radio.hf,alt.ham-
radio.morse,rec.radio.amateur.homebrew
User-Agent: slrn/0.9.8.1 (Linux)
Message-ID: <RqmdneZhJOJaFeXYnZ2dnUVZ_vCdnZ2d@comcast.com>
Date: Thu, 07 Dec 2006 15:33:59 -0600
Lines: 22
NNTP-Posting-Host: 24.5.203.12
```

X-Trace: sv3-zgzWMeujHjppm+C+X2/B0OFnOd3/B+Yj+k2UsuyA9zTCDvn2F7g/zgqFpUYvyPcVnUNKIeKc8mejrWy!zUt4u14b1TUW4FxXNXgxAOZ53esdEcH/EovUe1RBlkKlsyAssXyzg3iM9d2g1jYapRpzFv+NfHkr!RWdpmw==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com alt.ham-radio:1416 alt.ham-radio.hf:615 alt.ham-radio.morse:295 rec.radio.amateur.homebrew:8114

No doubt many are saddened by the senseless loss of James Kim, the family man that perished in the mountains of Western Oregon early this week. I think what makes it all the more tragic is that here was a person who was on the cutting edge of all the latest and greatest high tech computer and communications technology. Blackberries, photo cellphones, wifi PDA's and laptops, etc. I'm stunned a person in such a high tech vector could become so completely isolated in such a short distance from the mainstream.

This worries me because it highlights the shortcomings of all this new high tech gimcrackery. As I understand it, even satellite cellphones require a service provider with a nearby uplink antenna. So, this brings up my question, as a non ham:

How long do you think it would have taken James, or anyone in that situation, to make contact with outside help and get him and his family out of there if he'd had something like a basic QRP tranceiver and antenna and knew how to use it?

Any thoughts you may have on this issue would be appreciated.

nb

From -4043421283402704959
X-Google-Thread: 10ed5f,dc19b896dd89980a
X-Google-Thread: 114a57,dc19b896dd89980a
X-Google-Thread: f7796,dc19b896dd89980a
X-Google-Thread: fc2a5,dc19b896dd89980a
X-Google-Attributes: gid10ed5f,gid114a57,gidf7796,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!sn-xt-sjc-04!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: alt.ham-radio,alt.ham-radio.hf,alt.ham-radio.morse,rec.radio.amateur.homebrew
Subject: Re: James Kim: new vs old tech
Date: Thu, 7 Dec 2006 13:57:59 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12nh3j99rckbla2@corp.supernews.com>
References: <RqmdneZhJOJaFeXYnZ2dnUVZ_vCdnZ2d@comcast.com>

X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 45
Xref: g2news2.google.com alt.ham-radio:1417 alt.ham-radio.hf:616 alt.ham-radio.morse:296 rec.radio.amateur.homebrew:8115

"notbob" <notbob@nothome.com> wrote in message
news:RqmdneZhJOJaFeXYnZ2dnUVZ_vCdnZ2d@comcast.com...

> This worries me because it highlights the shortcomings of all this new high tech gimcrackery.

I'm not sure what "shortcomings" you're referring to; no cell phone or WiFi vendor suggests that you're somehow going to be able to get service out in the middle of nowhere, miles from any populated town.

> As I understand it, even satellite cellphones require a service provider with a nearby uplink antenna.

No, plenty are 100% standalone. You're probably thinking of models that effectively act like traditional cordless phones back to a basestation so that the handset itself can be small and light and have good battery life.

> How long do you think it would have taken James, or anyone in that situation, to make contact with outside help and get him and his family out of there if he'd had something like a basic QRP tranceiver and antenna and knew how to use it?

(Assuming an HF band transceiver...) Not long at all.

If he had made various short hikes from the car to the surrounding hill tops perhaps he could have managed to hit a cell phone tower as well and successfully made a call.

> Any thoughts you may have on this issue would be appreciated.

Although we'll probably never know exactly what he was thinking, I've been on the road in question and to most people it justs scream "do not enter!" in winter... at least not without much better equipment and supplies, including a different vehicle.

I'd be curious to learn if he used a piece of mapping/routing software to choose his course; I've seen some that will choose the road he did because it is shorter, in mileage, than the main highway out to the coast -- not considering that the road is narrow, gravel, and otherwise rather treacherous in winter. (Even in summer it's significantly slower than the main highway.)

---Joel

```
From 6962063507818241220
X-Google-Thread: 10ed5f,dc19b896dd89980a
X-Google-Thread: 114a57,dc19b896dd89980a
X-Google-Thread: f7796,dc19b896dd89980a
X-Google-Thread: fc2a5,dc19b896dd89980a
X-Google-Attributes: gid10ed5f,gid114a57,gidf7796,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe18.lga.POSTED!53ab2750!not-for-mail
From: BakersT <nomailpls@domain.invalid>
Newsgroups: alt.ham-radio,alt.ham-radio.hf,alt.ham-
radio.morse,rec.radio.amateur.homebrew
Subject: Re: James Kim: new vs old tech
References: <RqmdneZhJOJaFeXYnZ2dnUVZ_vCdnZ2d@comcast.com>
User-Agent: MT-NewsWatcher/3.4 (PPC Mac OS X)
Message-ID: <nomailpls-A87843.18255707122006@news.lga.highwinds-media.com>
Lines: 22
Date: Thu, 07 Dec 2006 18:25:58 -0500
NNTP-Posting-Host: 70.179.66.139
X-Complaints-To: admin@cox.net
X-Trace: newsfe18.lga 1165533958 70.179.66.139 (Thu, 07 Dec 2006 16:25:58 MST)
NNTP-Posting-Date: Thu, 07 Dec 2006 16:25:58 MST
Organization: Cox
Xref: g2news2.google.com alt.ham-radio:1418 alt.ham-radio.hf:617 alt.ham-
radio.morse:297 rec.radio.amateur.homebrew:8116
```

In article <RqmdneZhJOJaFeXYnZ2dnUVZ_vCdnZ2d@comcast.com>,
notbob <notbob@nothome.com> wrote:

[snip]

> This worries me because it highlights the shortcomings of all this new high tech gimcrackery. As I understand it, even satellite cellphones require a service provider with a nearby uplink antenna. So, this brings up my question, as a non ham:
>
> How long do you think it would have taken James, or anyone in that situation, to make contact with outside help and get him and his family out of there if he'd had something like a basic QRP tranceiver and antenna and knew how to use it?
>
> Any thoughts you may have on this issue would be appreciated.

Well, the _right_ high tech gimcrackery (a "personnel locator beacon", e.g. <http://www.landfallnavigation.com/spwff1.html>) would almost certainly have been effective. And I'm sorry for his family's loss, and can appreciate that Mr. Kim must have felt that taking action was necessary to save his wife and children, but had he _stayed_put_ he'd be alive today.

From 7441295020942376139
X-Google-Thread: fc8b1,2eb63556d8d2c41b,start
X-Google-Thread: fc2a5,2eb63556d8d2c41b,start
X-Google-Thread: 10bf43,e5c3ae4f3f2394ba
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
207.69.154.102.MISMATCH!elnk-atl-nf2!newsfeed.earthlink.net!
stamper.news.atl.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: ARS License Numbers
From: Slow Code <my.mail@no.spam>
References: <1148005814.174874.234520@38g2000cwa.googlegroups.com>
<1148176629.132344.298270@y43g2000cwc.googlegroups.com>
<1149360939.540592.26980@j55g2000cwa.googlegroups.com>
<1150677450.954458.220430@y41g2000cwy.googlegroups.com>
<1151891172.417569.13020@a14g2000cwb.googlegroups.com>
<1154135335.678832.191990@b28g2000cwb.googlegroups.com>
<1155498671.541484.316220@h48g2000cwc.googlegroups.com>
<1157245927.503665.253740@m79g2000cwm.googlegroups.com>
<1158429095.613465.212990@k70g2000cwa.googlegroups.com>
<1159867822.860905.174320@k70g2000cwa.googlegroups.com>
<1161431219.618068.308400@i3g2000cwc.googlegroups.com>
<1162811237.244017.201580@k70g2000cwa.googlegroups.com>
<1164074986.489001.235430@h48g2000cwc.googlegroups.com>
<1165230883.655037.78140@n67g2000cwd.googlegroups.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 68
Message-ID: <Wq2eh.8176$ql2.2474@newsread3.news.pas.earthlink.net>
Date: Fri, 08 Dec 2006 00:35:02 GMT
NNTP-Posting-Host: 4.254.229.196
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1165538102 4.254.229.196 (Thu, 07 Dec 2006 16:35:02 PST)
NNTP-Posting-Date: Thu, 07 Dec 2006 16:35:02 PST
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6623
rec.radio.amateur.homebrew:8117 rec.radio.amateur.policy:57050

N2EY@AOL.COM wrote in
news:1165230883.655037.78140@n67g2000cwd.googlegroups.com:

> These are the numbers of current, unexpired
> amateur radio licenses held by individuals
> on the stated dates, and the percentage of
> the total number of active licenses that
> class contains:
>
> As of May 14, 2000:

>
> Novice - 49,329 (7.3%)
> Technician - 205,394 (30.4%)
> Technician Plus - 128,860 (19.1%)
> General - 112,677 (16.7%)
> Advanced - 99,782 (14.8%)
> Extra - 78,750 (11.7%)
>
> Total Tech/TechPlus - 334,254 (49.5%)
>
> Total General/Advanced/Extra - 291,209 (43.2%)
>
> Total all classes - 674,792
>
> As of December 2, 2006:
>
> Novice - 23,801 (3.6%) [decrease of 25,528]
> Technician - 288,922 (44.0%) [increase of 83,528]
> Technician Plus - 33,644 (5.1%) [decrease of 95,216]
> General - 131,409 (20.0%) [increase of 18,732]
> Advanced - 70,183 (10.7%) [decrease of 29,599]
> Extra - 108,154 (16.5%) [increase of 29,404]
>
> (percentages may not add up to exactly 100.0% due to rounding)
>
> Total Tech/TechPlus - 322,566 (49.2%) [decrease of 11,688]
>
> Total General/Advanced/Extra - 309,746 (47.2%) [increase of 18,537]
>
> Total all classes - 656,113 (decrease of 18,679)
>
> Note that these totals do not include licenses
> that have expired but are in the grace period.
>
> They also do not include club, military
> or other station-only licenses.
>
> Note also that effective April 15, 2000, new
> Novice, Technician Plus and Advanced licenses
> are no longer issued.
>
> Since April 15, 2000, FCC has renewed all existing
> Technician Plus licenses as Technician. By May of
> 2010, the number of Technician Plus licenses will drop
> to zero, because all of them will have been renewed as
> Technician or allowed to expire. It is therefore
> informative to consider the totals of the two classes,
> since the Technician class includes a significant
> number of Technician Plus licenses renewed as
> Technician.
>
> 73 de Jim, N2EY

Thanks for posting this Jim. Maybe now people will see that dumbing down ham radio was a bad idea.

SC

From -7272489434337150103
X-Google-Thread: fcc6e,9770b54fa0752b0f
X-Google-Thread: fc2a5,8dffcadd3cfb0f1
X-Google-Thread: 107ada,8dffcadd3cfb0f1
X-Google-Thread: 10bf43,8dffcadd3cfb0f1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!elnk-pas-nf1!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: Guide Lines for this news group
From: Slow Code <my.mail@no.spam>
References: <YHhch.49776$4Z1.24675@newsfe09.phx> <pve3n21b5p2no0et7ucgrfihn9iccen58g@4ax.com> <tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com> <1Zoch.6172$tM1.5232@newsread1.news.pas.earthlink.net> <1165116776.575952.37510@16g2000cwy.googlegroups.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 62
Message-ID: <3r2eh.8183$ql2.2149@newsread3.news.pas.earthlink.net>
Date: Fri, 08 Dec 2006 00:35:11 GMT
NNTP-Posting-Host: 4.254.229.196
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1165538111 4.254.229.196 (Thu, 07 Dec 2006 16:35:11 PST)
NNTP-Posting-Date: Thu, 07 Dec 2006 16:35:11 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:22697 rec.radio.amateur.homebrew:8118 rec.radio.amateur.misc:26845 rec.radio.amateur.policy:57056

hot-ham-and-cheese@hotmail.com wrote in
news:1165116776.575952.37510@16g2000cwy.googlegroups.com:

>
> Slow Code wrote:
>> Danny Richardson <n_group@k6mhe.com> wrote in
>> news:tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com:
>>
>> > On Sat, 02 Dec 2006 09:48:44 -0800, Bill Turner <noway@nowhow.com>
>> > wrote:
>> >
>> >>ORIGINAL MESSAGE:

>> >>
>> >>On Sat, 2 Dec 2006 08:19:07 -0800, "Caveat Lector" <CL@nowhere.com>
>> >> wrote:
>> >>
>> >>>Maybe this will help(a little) to get rid of the off topic posts
>> >>>
>> >>>For what this News Group is about and applicable guide lines see
>> >>>URL:
>> >>>
>> >>>http://www.faqs.org/faqs/radio/personal-intro/
>> >>>
>> >>>Thanks for reading
>> >>>73 CL
>> >>>
>> >>
>> >>------------ REPLY FOLLOWS ------------
>> >>
>> >>Dream on, CL. These guys already know that and they don't care. It's
>> >>been that way forever. It's the Curse of Usenet.
>> >>
>> >>Bill, W6WRT
>> >
>> > After years of resisting I'm ready for a moderated antenna group.
>> > I've used my kill filter more times in the last three months than
>> > I've ever done in the previous ten years.
>> >
>> > I, for one, am sick and tired of the foul-mouth off topic postings
>> > and, if that requires a moderated group to get rid of them it would
>> > be a very small price to pay.
>> >
>> > Danny,
>>
>>
>> I know what you mean Dan.
>
> No you don't. You're one of the foul-mouthed off-topic posters that
> Dan is complaining about.
>
>> With the anticipation that ham radio is going
>> to get dumbed down again real soon, the dumb-it-downers
>
> It got "dumbed-down" when a license was issued to you.
>
> BTW, what is your call?

Don't worry about my callsign. Just keep practicing CW. No matter how fast
and good you already are at it you can always improve your skills.

SC

From -1027756644874535397

X-Google-Thread: fc8b1,2eb63556d8d2c41b
X-Google-Thread: fc2a5,2eb63556d8d2c41b
X-Google-Thread: 10bf43,e5c3ae4f3f2394ba
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!nntpserver.com!zeus.nntpserver.com!
hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: ARS License Numbers
Date: Thu, 07 Dec 2006 20:34:03 -0500
Message-ID: <t6ghn2drji894n7u87dgki0t7j891h2c0p@4ax.com>
References: <1157245927.503665.253740@m79g2000cwm.googlegroups.com>
<1158429095.613465.212990@k70g2000cwa.googlegroups.com>
<1159867822.860905.174320@k70g2000cwa.googlegroups.com>
<1161431219.618068.308400@i3g2000cwc.googlegroups.com>
<1162811237.244017.201580@k70g2000cwa.googlegroups.com>
<1164074986.489001.235430@h48g2000cwc.googlegroups.com>
<1165230883.655037.78140@n67g2000cwd.googlegroups.com>
<Wq2eh.8176$ql2.2474@newsread3.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 74
NNTP-Posting-Date: 08 Dec 2006 00:39:30 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6626
rec.radio.amateur.homebrew:8119 rec.radio.amateur.policy:57064

On Fri, 08 Dec 2006 00:35:02 GMT, Slow Code <my.mail@no.spam> wrote:

>N2EY@AOL.COM wrote in
>news:1165230883.655037.78140@n67g2000cwd.googlegroups.com:
>
>> These are the numbers of current, unexpired
>> amateur radio licenses held by individuals
>> on the stated dates, and the percentage of
>> the total number of active licenses that
>> class contains:
>>
>> As of May 14, 2000:
>>
>> Novice - 49,329 (7.3%)
>> Technician - 205,394 (30.4%)
>> Technician Plus - 128,860 (19.1%)
>> General - 112,677 (16.7%)
>> Advanced - 99,782 (14.8%)
>> Extra - 78,750 (11.7%)
>>
>> Total Tech/TechPlus - 334,254 (49.5%)

>>
>> Total General/Advanced/Extra - 291,209 (43.2%)
>>
>> Total all classes - 674,792
>>
>> As of December 2, 2006:
>>
>> Novice - 23,801 (3.6%) [decrease of 25,528]
>> Technician - 288,922 (44.0%) [increase of 83,528]
>> Technician Plus - 33,644 (5.1%) [decrease of 95,216]
>> General - 131,409 (20.0%) [increase of 18,732]
>> Advanced - 70,183 (10.7%) [decrease of 29,599]
>> Extra - 108,154 (16.5%) [increase of 29,404]
>>
>> (percentages may not add up to exactly 100.0% due to rounding)
>>
>> Total Tech/TechPlus - 322,566 (49.2%) [decrease of 11,688]
>>
>> Total General/Advanced/Extra - 309,746 (47.2%) [increase of 18,537]
>>
>> Total all classes - 656,113 (decrease of 18,679)
>>
>> Note that these totals do not include licenses
>> that have expired but are in the grace period.
>>
>> They also do not include club, military
>> or other station-only licenses.
>>
>> Note also that effective April 15, 2000, new
>> Novice, Technician Plus and Advanced licenses
>> are no longer issued.
>>
>> Since April 15, 2000, FCC has renewed all existing
>> Technician Plus licenses as Technician. By May of
>> 2010, the number of Technician Plus licenses will drop
>> to zero, because all of them will have been renewed as
>> Technician or allowed to expire. It is therefore
>> informative to consider the totals of the two classes,
>> since the Technician class includes a significant
>> number of Technician Plus licenses renewed as
>> Technician.
>>
>> 73 de Jim, N2EY
>
>
>Thanks for posting this Jim. Maybe now people will see that dumbing down
>ham radio was a bad idea.

we do which is why we want to end the dummbing by ending the mode
welfare that exists in it
>
>SC
http://kb9rqz.blogspot.com/

```
--
Posted via a free Usenet account from http://www.teranews.com
```

```
From -3796450415284667417
X-Google-Thread: fcc6e,9770b54fa0752b0f
X-Google-Thread: fc2a5,8dffcadd3cfb0f1
X-Google-Thread: 107ada,8dffcadd3cfb0f1
X-Google-Thread: 10bf43,8dffcadd3cfb0f1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news-
spur1.maxwell.syr.edu!news.maxwell.syr.edu!nntpserver.com!zeus.nntpserver.com!
hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.ra
dio.amateur.policy
Subject: Re: Guide Lines for this news group
Date: Thu, 07 Dec 2006 20:40:45 -0500
Message-ID: <pighn2hfsl332bn3rt0l7hdat6n569cq1j@4ax.com>
References: <YHhch.49776$4Z1.24675@newsfe09.phx>
<pve3n21b5p2no0et7ucgrfihn9iccen58g@4ax.com>
<tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com>
<1Zoch.6172$tM1.5232@newsread1.news.pas.earthlink.net>
<1165116776.575952.37510@16g2000cwy.googlegroups.com>
<3r2eh.8183$ql2.2149@newsread3.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 76
NNTP-Posting-Date: 08 Dec 2006 00:46:12 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:22700
rec.radio.amateur.homebrew:8120 rec.radio.amateur.misc:26855
rec.radio.amateur.policy:57073
```

On Fri, 08 Dec 2006 00:35:11 GMT, Slow Code <my.mail@no.spam> wrote:

```
>hot-ham-and-cheese@hotmail.com wrote in
>news:1165116776.575952.37510@16g2000cwy.googlegroups.com:
>
>>
>> Slow Code wrote:
>>> Danny Richardson <n_group@k6mhe.com> wrote in
>>> news:tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com:
>>>
>>> > On Sat, 02 Dec 2006 09:48:44 -0800, Bill Turner <noway@nowhow.com>
>>> > wrote:
>>> >
```

>>> >>ORIGINAL MESSAGE:
>>> >>
>>> >>On Sat, 2 Dec 2006 08:19:07 -0800, "Caveat Lector" <CL@nowhere.com>
>>> >> wrote:
>>> >>
>>> >>>Maybe this will help(a little) to get rid of the off topic posts
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>>> >>>For what this News Group is about and applicable guide lines see
>>> >>>URL:
>>> >>>
>>> >>>http://www.faqs.org/faqs/radio/personal-intro/
>>> >>>
>>> >>>Thanks for reading
>>> >>>73 CL
>>> >>>
>>> >>
>>> >>------------ REPLY FOLLOWS ------------
>>> >>
>>> >>Dream on, CL. These guys already know that and they don't care. It's
>>> >>been that way forever. It's the Curse of Usenet.
>>> >>
>>> >>Bill, W6WRT
>>> >
>>> > After years of resisting I'm ready for a moderated antenna group.
>>> > I've used my kill filter more times in the last three months than
>>> > I've ever done in the previous ten years.
>>> >
>>> > I, for one, am sick and tired of the foul-mouth off topic postings
>>> > and, if that requires a moderated group to get rid of them it would
>>> > be a very small price to pay.
>>> >
>>> > Danny,
>>>
>>>
>>> I know what you mean Dan.
>>
>> No you don't. You're one of the foul-mouthed off-topic posters that
>> Dan is complaining about.
>>
>>> With the anticipation that ham radio is going
>>> to get dumbed down again real soon, the dumb-it-downers
>>
>> It got "dumbed-down" when a license was issued to you.
>>
>> BTW, what is your call?
>
>
>Don't worry about my callsign.

why not we think you don't have one
> Just keep practicing CW.

why? BB fuinds it usles to what he interested in as do I

```
> No matter how fast
>and good you already are at it you can always improve your skills.

so what?

i suspect I am the best Swordmans in RRAP so what
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -6361805605739615551
X-Google-Thread: 10ed5f,dc19b896dd89980a
X-Google-Thread: 114a57,dc19b896dd89980a
X-Google-Thread: f7796,dc19b896dd89980a
X-Google-Thread: fc2a5,dc19b896dd89980a
X-Google-Attributes: gid10ed5f,gid114a57,gidf7796,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 07 Dec 2006 19:50:52 -0600
Newsgroups: alt.ham-radio,alt.ham-radio.hf,alt.ham-
radio.morse,rec.radio.amateur.homebrew
From: notbob <notbob@nothome.com>
Subject: Re: James Kim: new vs old tech
References: <RqmdneZhJOJaFeXYnZ2dnUVZ_vCdnZ2d@comcast.com>
<12nh3j99rckbla2@corp.supernews.com>
Organization: ...little, if any
User-Agent: slrn/0.9.8.1 (Linux)
Message-ID: <9O6dnUXug7NgWeXYnZ2dnUVZ_v2dnZ2d@comcast.com>
Date: Thu, 07 Dec 2006 19:50:53 -0600
Lines: 19
NNTP-Posting-Host: 24.5.203.12
X-Trace: sv3-nCag3v0FU1C/
6HrjjMEPJYKczjY779ZIpvBWyKSQxv5Q2cymCkomuhPtyBGAKqlgJhMmLuBtXtvaguN!
87dz+AONxPLSc5kwKuRkDBGz1Elp8WNOgvSWSh//SzrGR+GRtGVZrkcUD2C2cDm11pnAeZyVKIVg!
Iai0zw==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com alt.ham-radio:1419 alt.ham-radio.hf:618 alt.ham-
radio.morse:298 rec.radio.amateur.homebrew:8121

On 2006-12-07, Joel Kolstad <JKolstad71HatesSpam@yahoo.com> wrote:
```

> I'd be curious to learn if he used a piece of mapping/routing software to
> choose his course;

I'm sure I've heard he had a mapquest or similar generated map.

> considering that the road is narrow, gravel......

That would have been a flashing red light for me. In fact, I think I took that hwy (42?) from 5 to the coast back in '75. Is that the highway that's the usual detour to the Coast when 5 at Grant's Pass is closed? If so, we did take it in snowy weather at night and were even less prepared than he was (I was real young and real stupid). But, I was smart enough to stay on the road that actually had traffic, including trucks, on it despite it becoming pretty lonesome on some stretches. We also put on chains (the state patrol required it).

nb

```
From -7829705658076656169
X-Google-Thread: fc2a5,78bbaaa176d86ff,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!wn12feed!worldnet.att.net!
bgtnsc05-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA:NOS DUAL AIR VAR + PARTS....
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <XQ3eh.167074$Fi1.40832@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: 8abb04800c535b777a7391075b23f6e9
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1165543863
8abb04800c535b777a7391075b23f6e9 (Fri, 08 Dec 2006 02:11:03 GMT)
NNTP-Posting-Date: Fri, 08 Dec 2006 02:11:03 GMT
Organization: AT&T Worldnet
Date: Fri, 08 Dec 2006 02:11:03 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8122
```

Have several parts and other stuff too:

NIB DUAL 100PF Johnson
'N' CONNECTORS, WHEAT BULBS, CHIMNEY CLIPS, DIODES, ELECTROLYTICS,
BIRD PLUG-IN, BIRD COAXWITCH 72-2,

more stuff coming; have a look and tnx

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

HEYTUBEGUY

```
From -3334513865523398961
X-Google-Thread: 10ed5f,dc19b896dd89980a
X-Google-Thread: 114a57,dc19b896dd89980a
X-Google-Thread: f7796,dc19b896dd89980a
X-Google-Thread: fc2a5,dc19b896dd89980a
X-Google-Attributes: gid10ed5f,gid114a57,gidf7796,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 08 Dec 2006 06:31:42 -0600
Date: Fri, 08 Dec 2006 12:31:41 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: alt.ham-radio,alt.ham-radio.hf,alt.ham-
radio.morse,rec.radio.amateur.homebrew
Subject: Re: James Kim: new vs old tech
References: <RqmdneZhJOJaFeXYnZ2dnUVZ_vCdnZ2d@comcast.com> <nomailpls-
A87843.18255707122006@news.lga.highwinds-media.com>
In-Reply-To: <nomailpls-A87843.18255707122006@news.lga.highwinds-media.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <MKOdnQmHSMGyxuTYnZ2dnUVZ_sqdnZ2d@bright.net>
Lines: 19
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-ekU/L9Fn4KREOXOU/gqk02UxLkY3Guzfj0/
NveMAbIxQVejNAJImLbIOG4bIUQ5iVA6U+d9fGuzE/xj!/
s0YFDa8Q3KreBK8yODGDVp28opWly8yCzqQQ2n034TofGYv37rsTKMb8PqXu5EGLZ9ay38khyTA!
DumAcFULjw==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com alt.ham-radio:1424 alt.ham-radio.hf:619 alt.ham-
radio.morse:299 rec.radio.amateur.homebrew:8123
```

I agree...here in the Northern U.S. where we (usually) get plenty of snow and ice, we were taught to stay with the vehicle (and it's always a good idea to have an emergency supply of food and water in the car, especially in the winter months). In the case of an air search and rescue, it's far easier to spot a car on the ground (which is usually very near to a road) rather than spot a person in the woods...

Scott

BakersT wrote:

> Well, the _right_ high tech gimcrackery (a "personnel locator beacon",
> e.g. <http://www.landfallnavigation.com/spwff1.html>) would almost
> certainly have been effective. And I'm sorry for his family's loss, and
> can appreciate that Mr. Kim must have felt that taking action was
> necessary to save his wife and children, but had he _stayed_put_ he'd be
> alive today.

```
From -8910476801276967412
X-Google-Thread: 10ed5f,dc19b896dd89980a
X-Google-Thread: 114a57,dc19b896dd89980a
X-Google-Thread: f7796,dc19b896dd89980a
X-Google-Thread: fc2a5,dc19b896dd89980a
X-Google-Attributes: gid10ed5f,gid114a57,gidf7796,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!16g2000cwy.googlegroups.com!not-for-
mail
From: "Denny" <k8do@mailblocks.com>
Newsgroups: alt.ham-radio,alt.ham-radio.hf,alt.ham-
radio.morse,rec.radio.amateur.homebrew
Subject: Re: James Kim: new vs old tech
Date: 8 Dec 2006 04:57:39 -0800
Organization: http://groups.google.com
Lines: 20
Message-ID: <1165582659.943048.9020@16g2000cwy.googlegroups.com>
References: <RqmdneZhJOJaFeXYnZ2dnUVZ_vCdnZ2d@comcast.com>
   <nomailpls-A87843.18255707122006@news.lga.highwinds-media.com>
   <MKOdnQmHSMGyxuTYnZ2dnUVZ_sqdnZ2d@bright.net>
NNTP-Posting-Host: 24.247.246.156
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165582666 19506 127.0.0.1 (8 Dec 2006 12:57:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 8 Dec 2006 12:57:46 +0000 (UTC)
In-Reply-To: <MKOdnQmHSMGyxuTYnZ2dnUVZ_sqdnZ2d@bright.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.8)
Gecko/20061025 Firefox/1.5.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 16g2000cwy.googlegroups.com; posting-host=24.247.246.156;
   posting-account=GhrC0g0AAACdrABM-CDx8Fhs5lKJR5q2
Xref: g2news2.google.com alt.ham-radio:1425 alt.ham-radio.hf:620 alt.ham-
radio.morse:300 rec.radio.amateur.homebrew:8124
```

That is really rugged country... And even with a determined multi day
search by air and snowmobile they only found her by accident... Likely
if she hadn't had the umbrella they would have sailed right on past
without seeing her... It is sheer happenstance that any survived..
Given this coddled, technological world we live in, we have lost our
fear of nature... We walk around in freezing weather wearing only a
light jacket, get into a self heating car and drive away from the
suburban streets into rugged country with the Sirius music playing and
the kids banging on the gameboy...But when our technological tools
fail, we are totally unequipped to survive in a situation of being
stranded in a hostile environment...

Could I have made the same mistake? Maybe... But, I am the product of
Northern Michigan, I live in a rural area, I drive 5000# of 4X4 truck,
I usually wear a -20F parka, even to run to the store 2.5 miles away...
Maybe my inherent caution would have made me question that road and
turn around... Maybe not... Glad it was not me...

denny

From -7314150840244108090
X-Google-Thread: 10ed5f,dc19b896dd89980a
X-Google-Thread: 114a57,dc19b896dd89980a
X-Google-Thread: f7796,dc19b896dd89980a
X-Google-Thread: fc2a5,dc19b896dd89980a
X-Google-Attributes: gid10ed5f,gid114a57,gidf7796,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews5.bellsouth.net.POSTED!db98089e!not-for-mail
Message-ID: <457966CD.872B448@planet.net>
From: Lois <Lois_Lane@planet.net>
X-Mailer: Mozilla 4.79 [en] (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: alt.ham-radio,alt.ham-radio.hf,alt.ham-radio.morse,rec.radio.amateur.homebrew
Subject: Re: James Kim: new vs old tech
References: <RqmdneZhJOJaFeXYnZ2dnUVZ_vCdnZ2d@comcast.com>
<12nh3j99rckbla2@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 18
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcbogpglkccecmoipmjaoblhmnhoecohlikink
oehhdojmgjcabmbnkcpmgondmkijelihbbjoldfngcmehngjokilcgngpgfoogphcfnbfampfogpjd
NNTP-Posting-Date: Fri, 08 Dec 2006 08:21:14 EST
Organization: BellSouth Internet Group
Date: Fri, 08 Dec 2006 08:21:17 -0500

```
Xref: g2news2.google.com alt.ham-radio:1426 alt.ham-radio.hf:621 alt.ham-
radio.morse:301 rec.radio.amateur.homebrew:8125
```

Official Oregon State maps indicated in red ink the roads
that are closed in winter, off the shelf Rand McNally map did not.

with all the trees out there, too bad he did not carry a leatherman
tool.

burning the tires was smart.

wonder if he knew how to build igloo or other type of shelter.

> I'd be curious to learn if he used a piece of mapping/routing software to
> choose his course; I've seen some that will choose the road he did because it
> is shorter, in mileage, than the main highway out to the coast -- not
> considering that the road is narrow, gravel, and otherwise rather treacherous
> in winter. (Even in summer it's significantly slower than the main highway.)
>
> ---Joel

```
From 4253572418670028172
X-Google-Thread: 10ed5f,dc19b896dd89980a
X-Google-Thread: 114a57,dc19b896dd89980a
X-Google-Thread: f7796,dc19b896dd89980a
X-Google-Thread: fc2a5,dc19b896dd89980a
X-Google-Attributes: gid10ed5f,gid114a57,gidf7796,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!news.glorb.com!
bigfeed2.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!
news.bellsouth.net!bignews5.bellsouth.net.POSTED!db98089e!not-for-mail
Message-ID: <45796732.64507C9A@planet.net>
From: Lois <Lois_Lane@planet.net>
X-Mailer: Mozilla 4.79 [en] (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: alt.ham-radio,alt.ham-radio.hf,alt.ham-
radio.morse,rec.radio.amateur.homebrew
Subject: Re: James Kim: new vs old tech
References: <RqmdneZhJOJaFeXYnZ2dnUVZ_vCdnZ2d@comcast.com> <nomailpls-
A87843.18255707122006@news.lga.highwinds-media.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 30
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcbonifdngindciodkphkakdbogfohlgcphcnk
oehhdojmgjcabmbnkcpmgondmkijelihbbjoldfngcmehnhojlhloeokhlecchoghjlnkgilcmhoje
NNTP-Posting-Date: Fri, 08 Dec 2006 08:22:55 EST
Organization: BellSouth Internet Group
```

```
Date: Fri, 08 Dec 2006 08:22:58 -0500
Xref: g2news2.google.com alt.ham-radio:1427 alt.ham-radio.hf:622 alt.ham-
radio.morse:302 rec.radio.amateur.homebrew:8126

wonder if he used the cell phone(s) for a few min
at the top of every hour as a beacon to help recsue
try to loacte him by special gear ?




BakersT wrote:
>
> In article <RqmdneZhJOJaFeXYnZ2dnUVZ_vCdnZ2d@comcast.com>,
>  notbob <notbob@nothome.com> wrote:
>
> [snip]
> > This worries me because it highlights the shortcomings of all this new
> > high tech gimcrackery.  As I understand it, even satellite cellphones
> > require a service provider with a nearby uplink antenna.  So, this
> > brings up my question, as a non ham:
> >
> > How long do you think it would have taken James, or anyone in that
> > situation, to make contact with outside help and get him and his
> > family out of there if he'd had something like a basic QRP tranceiver
> > and antenna and knew how to use it?
> >
> > Any thoughts you may have on this issue would be appreciated.
>
> Well, the _right_ high tech gimcrackery (a "personnel locator beacon",
> e.g. <http://www.landfallnavigation.com/spwff1.html>) would almost
> certainly have been effective. And I'm sorry for his family's loss, and
> can appreciate that Mr. Kim must have felt that taking action was
> necessary to save his wife and children, but had he _stayed_put_ he'd be
> alive today.


From 6487791914268132028
X-Google-Thread: 10ed5f,dc19b896dd89980a
X-Google-Thread: 114a57,dc19b896dd89980a
X-Google-Thread: f7796,dc19b896dd89980a
X-Google-Thread: fc2a5,dc19b896dd89980a
X-Google-Attributes: gid10ed5f,gid114a57,gidf7796,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews5.bellsouth.net.POSTED!db98089e!not-for-mail
Message-ID: <45796804.E069D9F1@planet.net>
From: Lois <Lois_Lane@planet.net>
X-Mailer: Mozilla 4.79 [en] (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: alt.ham-radio,alt.ham-radio.hf,alt.ham-
radio.morse,rec.radio.amateur.homebrew
```

Subject: Re: James Kim: new vs old tech
References: <RqmdneZhJOJaFeXYnZ2dnUVZ_vCdnZ2d@comcast.com> <nomailpls-
A87843.18255707122006@news.lga.highwinds-media.com>
<MKOdnQmHSMGyxuTYnZ2dnUVZ_sqdnZ2d@bright.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 19
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcbofikgdgchibbbbbiokakdbogfohlgcphcnk
oehhdojmgjcabmbnkcpmgondmkijelihbbjoldfngcmehndgoppfcpjfjdoppekcnngdniofceagjf
NNTP-Posting-Date: Fri, 08 Dec 2006 08:26:25 EST
Organization: BellSouth Internet Group
Date: Fri, 08 Dec 2006 08:26:28 -0500
Xref: g2news2.google.com alt.ham-radio:1428 alt.ham-radio.hf:623 alt.ham-
radio.morse:303 rec.radio.amateur.homebrew:8127

we never travel in that type of area but
when we do travel by car, got plenty of food,
several boxes cereal for me not the kids !,
cooler with drinks and h2o and several
road flares (makes fires fast) and my 2m/440 mobile kenwood
and ht.

also have old cb from 1975 and it works.

Scott wrote:
>
> I agree...here in the Northern U.S. where we (usually) get plenty of
> snow and ice, we were taught to stay with the vehicle (and it's always a
> good idea to have an emergency supply of food and water in the car,
> especially in the winter months). In the case of an air search and
> rescue, it's far easier to spot a car on the ground (which is usually
> very near to a road) rather than spot a person in the woods...
>

From -6057629949829522419
X-Google-Thread: 10ed5f,dc19b896dd89980a
X-Google-Thread: 114a57,dc19b896dd89980a
X-Google-Thread: f7796,dc19b896dd89980a
X-Google-Thread: fc2a5,dc19b896dd89980a
X-Google-Attributes: gid10ed5f,gid114a57,gidf7796,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.vnet-inc.com!news.vnet-
inc.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 08 Dec 2006 07:33:34 -0600
From: "Topaz305RK" <k7sam@arrl.net>
Newsgroups: alt.ham-radio,alt.ham-radio.hf,alt.ham-
radio.morse,rec.radio.amateur.homebrew

```
References: <RqmdneZhJOJaFeXYnZ2dnUVZ_vCdnZ2d@comcast.com>   <nomailpls-
A87843.18255707122006@news.lga.highwinds-media.com>
<MKOdnQmHSMGyxuTYnZ2dnUVZ_sqdnZ2d@bright.net>
<1165582659.943048.9020@16g2000cwy.googlegroups.com>
Subject: Re: James Kim: new vs old tech
Date: Fri, 8 Dec 2006 06:33:33 -0700
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <predna-jM7ky9OTYnZ2dnUVZ_v2nnZ2d@vnet-inc.com>
Lines: 12
NNTP-Posting-Host: 70.41.203.115
X-Trace: sv3-9Bpi63GOqWjEL3PXw4Fz1atcz6DYGQa6cWJ97CuSGvJPsoW2TxKwhHgILt0KFNH6//
KDw0WbNUjGgNM!U7VxSHx3qr6ZCaOll6lCpY2WKzM1WJBq+hArCzNS4/uZ5CrWwgoyNbGa/
z+6w10BWtfb/kQigwAA!ErIEi/aJKpCcHxoEMteULD1a0c8=
X-Complaints-To: abuse@vnet-inc.com
X-DMCA-Complaints-To: abuse@vnet-inc.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com alt.ham-radio:1429 alt.ham-radio.hf:624 alt.ham-
radio.morse:304 rec.radio.amateur.homebrew:8128
```

Well put.

Living in northeast Montana teaches one to NEVER go out, anywhere, unless you are prepared to spend time in a hostile environment. There are those who do the same thing every year up here, fortunately it usually has a happier ending. Nature is very unforgiving and could care less who you are, where you are from, what you do, etc., etc. Lose sight of that and forget to respect nature and some hard life lessons will bestow themselves upon you, some of them can, unfortunately, be self critiquing.

```
From 3838403196553243141
X-Google-Thread: 10ed5f,dc19b896dd89980a
X-Google-Thread: 114a57,dc19b896dd89980a
X-Google-Thread: f7796,dc19b896dd89980a
X-Google-Thread: fc2a5,dc19b896dd89980a
X-Google-Attributes: gid10ed5f,gid114a57,gidf7796,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news.litech.org!not-for-
mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: alt.ham-radio,alt.ham-radio.hf,alt.ham-
radio.morse,rec.radio.amateur.homebrew
Subject: Re: James Kim: new vs old tech
```

Date: Fri, 8 Dec 2006 14:07:09 +0000 (UTC)
Organization: Me?
Lines: 54
Sender: mikea@mikea.ath.cx
Message-ID: <elbrid$fnm$3@puck.litech.org>
References: <RqmdneZhJOJaFeXYnZ2dnUVZ_vCdnZ2d@comcast.com> <nomailpls-A87843.18255707122006@news.lga.highwinds-media.com> <MKOdnQmHSMGyxuTYnZ2dnUVZ_sqdnZ2d@bright.net> <45796804.E069D9F1@planet.net>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1165586829 16118 68.15.203.64 (8 Dec 2006 14:07:09 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Fri, 8 Dec 2006 14:07:09 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news2.google.com alt.ham-radio:1430 alt.ham-radio.hf:625 alt.ham-radio.morse:305 rec.radio.amateur.homebrew:8129

On Fri, 08 Dec 2006 08:26:28 -0500, Lois <Lois_Lane@planet.net> wrote in <45796804.E069D9F1@planet.net>:

> Scott wrote:
>>
>> I agree...here in the Northern U.S. where we (usually) get plenty of snow and ice, we were taught to stay with the vehicle (and it's always a good idea to have an emergency supply of food and water in the car, especially in the winter months). In the case of an air search and rescue, it's far easier to spot a car on the ground (which is usually very near to a road) rather than spot a person in the woods...
>>

> we never travel in that type of area but when we do travel by car, got plenty of food, several boxes cereal for me not the kids !, cooler with drinks and h2o and several road flares (makes fires fast) and my 2m/440 mobile kenwood and ht.

> also have old cb from 1975 and it works.

Yes, indeed. Any road trip into the western half of the US (New Mexico and points west) this time of year will see me do these:

- Move the HF rig into the van, as well as the FM dual-bander;
- Install the HF antenna mount on the van;
- Carry a straight key and antennas for 40, 20, and 10 meters;
- Carry both 2m HTs, spare batteries, and battery chargers for them;
- Load up with food, water, cloth blankets, flares, kitty litter, reflective Mylar blankets[1], 2 shovels, and flashlights; and
- Give _very_ serious thought to what _else_ I should carry.

We've got to drive from OKC and back over this weekend, and that's how I'll load up the van today, even though the forecast is for good wx. I've been called an over-cautious fuddy-duddy because I think like that, and I'm still alive because I think like that.

Even on well-traveled roads, you can get into Too Much Trouble in bad weather; back roads in untraveled country are, as we've just seen, far more dangerous.

Garrison Keillor said it very well indeed:

> "Life is complicated, but winter narrows it down to a
> few simple problems: heat, food, shelter, plumbing.
> And it focuses you in wonderful ways. You don't have
> to search for your personal identity in winter; winter
> gives it to you. You are prey in winter; nature is
> making a serious attempt to kill you."

[1] Life-savers when it's _cold_.

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From 8333270573802705232
X-Google-Thread: fc2a5,41f090f79cf9b4cd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc06.POSTED!32caf202!
not-for-mail
From: "west" <restccq2@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1162945128.879720@newsreg.cos.agilent.com>
<1162992599.838749.153980@m7g2000cwm.googlegroups.com>
<1163118766.320439@newsreg.cos.agilent.com>
Subject: Re: Super Glue doesn't work any more
Lines: 48
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <r0leh.39$495.3@trnddc06>
Date: Fri, 08 Dec 2006 21:43:51 GMT
NNTP-Posting-Host: 71.98.172.120
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc06 1165614231 71.98.172.120 (Fri, 08 Dec 2006 16:43:51 EST)
NNTP-Posting-Date: Fri, 08 Dec 2006 16:43:51 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8130

"Al Lorona" <al_lorona@agilent.com> wrote in message
news:1163118766.320439@newsreg.cos.agilent.com...

> Thank you all for your replies. Tom's treatise on reinforcement was
> well-taken on this end and is something I am going to try in the future.
>
> The opinion seems to be that Super Glue has not really changed but that
> plastics have changed into a form not as easily repaired by Super Glue.
> However, judging from the way Super Glue used to bond my skin vs. how much
> less so now, I still suspect that a weakening of the formula may have
taken
> place, perhaps in response to a lawsuit by someone who accidentally glued
> the palm of their hand to the sole of their shoe or something ridiculous
> like that. Lawyers are continually ruining products and processes for the
> rest of us as they search for the next target from which to extract
punitive
> damages.
>
> By the way, I never said what kind of failure it was; someone else assumed
a
> fan blade had cracked. Actually, it was one of the supporting struts that
> had cracked. I am fairly confident that with some reinforcement a crack
like
> this one has a very good chance of being repaired. However, I believe
epoxy
> is better indicated in this particular case as one of the posters pointed
> out. Epoxy is one tough glue.
>
> Thanks again.
>
> Al

Al,

You had the best answer. I never seen so much bs in a thread. When the glue
first came out it was not uncommon for the emergency rooms around the
country to have patients with eyes glued shut. Just like the 84 year old
lady who successfully sued McDonalds because of burning her crotch with
their hot coffee. Now they serve their coffee at a lower temperature.
Doesn't taste as good.

Cordially,
west
>
>
>

From 6732375315887685024
X-Google-Thread: fc2a5,41f090f79cf9b4cd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.gamma.ru!Gamma.RU!
newsfeed.icl.net!newsfeed.fjserv.net!newsfeed.cw.net!cw.net!news-FFM2.ecrc.de!

```
news.germany.com!sn-xt-sjc-03!sn-xt-sjc-09!sn-post-sjc-02!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Super Glue doesn't work any more
Date: Fri, 8 Dec 2006 14:03:29 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12njo9ibd7k31ec@corp.supernews.com>
References: <1162945128.879720@newsreg.cos.agilent.com>
<1162992599.838749.153980@m7g2000cwm.googlegroups.com>
<1163118766.320439@newsreg.cos.agilent.com> <r0leh.39$495.3@trnddc06>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-Complaints-To: abuse@supernews.com
Lines: 26
Xref: g2news2.google.com rec.radio.amateur.homebrew:8131

"west" <restccq2@verizon.net> wrote in message news:r0leh.39$495.3@trnddc06...
> You had the best answer. I never seen so much bs in a thread. When the glue
> first came out it was not uncommon for the emergency rooms around the
> country to have patients with eyes glued shut.

I remember reading the MSDS for super glue many years ago and it specifically
mentioned that it wouldn't actually harm your eye, and the best thing to do
was just wait until the skin naturally dies rather than trying to force open
the lids.  Ewwww....

I'm sure it stings like a @#$@ though; just getting my eyes close to the stuff
makes them sting from the fumes.

> Just like the 84 year old
> lady who successfully sued McDonalds because of burning her crotch with
> their hot coffee.

Just to be fair to Ronald, the particular McDonalds in question was serving
their coffee considerably hotter than they own internal guidelines said they
should have been.

> Now they serve their coffee at a lower temperature.

Definitely a case of one bad apple (the restaurant) ruining it for everyone.




From 8549154825648806439
X-Google-Thread: fc2a5,41f090f79cf9b4cd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!
```

```
headwall.stanford.edu!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr27.news.prodigy.net.POSTED!af499550!not-for-mail
From: "kd5sak" <kd5sak@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1162945128.879720@newsreg.cos.agilent.com>
<1162992599.838749.153980@m7g2000cwm.googlegroups.com>
<1163118766.320439@newsreg.cos.agilent.com> <r0leh.39$495.3@trnddc06>
<12njo9ibd7k31ec@corp.supernews.com>
Subject: Re: Super Glue doesn't work any more
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <L9meh.117$yC5.106@newssvr27.news.prodigy.net>
NNTP-Posting-Host: 68.90.156.104
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr27.news.prodigy.net 1165618923 ST000 68.90.156.104 (Fri, 08 Dec
2006 18:02:03 EST)
NNTP-Posting-Date: Fri, 08 Dec 2006 18:02:03 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1: OP[[RTJGTZTSP_@YMZJ\_Q\@TJ_ZTB\MV@BD]
\YIJYWZUYICD^RAQBKZQTZTX\_I[^G_KGFNON[ZOE_AZNVO^\XGGNTCIRPIJH[@RQKBXLRZ@CD^HKANYVW
@RLGEZEJN@\_WZJBNZYYKVIOR]T]MNMG_Z[YVWSCH_Q[GPC_A@CARQVXDSDA^M]@DRVUM@RBM
Date: Fri, 08 Dec 2006 23:02:03 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8132


"Joel Kolstad" <JKolstad71HatesSpam@yahoo.com> wrote in message
news:12njo9ibd7k31ec@corp.supernews.com...
> "west" <restccq2@verizon.net> wrote in message
> news:r0leh.39$495.3@trnddc06...

>
> Just to be fair to Ronald, the particular McDonalds in question was
> serving their coffee considerably hotter than they own internal guidelines
> said they should have been.
>
>> Now they serve their coffee at a lower temperature.
>
> Definitely a case of one bad apple (the restaurant) ruining it for
> everyone.
>
>
Didn't ruin it for everyone, my Mom had already taken care of coffee for me.
She sneaked a dose of castor oil into a cup of coffee to trick me into
drinking it when I was seven years old.
That's the last cup of coffee I ever had. I still detect a slight tinge of
castor oil when I smell coffee cooking.(G) Waagh! I'm just glad she didn't
find a way to spoil the smell of gunsmoke for me.
```

From 5655286101881996888
X-Google-Thread: 10ed5f,dc19b896dd89980a
X-Google-Thread: 114a57,dc19b896dd89980a
X-Google-Thread: f7796,dc19b896dd89980a
X-Google-Thread: fc2a5,dc19b896dd89980a
X-Google-Attributes: gid10ed5f,gid114a57,gidf7796,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 08 Dec 2006 20:22:38 -0600
Message-ID: <457A1DEE.1040004@bloomer.net>
Date: Sat, 09 Dec 2006 02:22:38 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: alt.ham-radio,alt.ham-radio.hf,alt.ham-radio.morse,rec.radio.amateur.homebrew
To: Lois <Lois_Lane@planet.net>
Subject: Re: James Kim: new vs old tech
References: <RqmdneZhJOJaFeXYnZ2dnUVZ_vCdnZ2d@comcast.com> <nomailpls-A87843.18255707122006@news.lga.highwinds-media.com> <MKOdnQmHSMGyxuTYnZ2dnUVZ_sqdnZ2d@bright.net> <45796804.E069D9F1@planet.net>
In-Reply-To: <45796804.E069D9F1@planet.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 28
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-xeTo8pB6/sRx7jFiB0nIsWd03GFvZ3iJs5yBmyH1QyYyZn0NdBvXnWaCl0bfOIZjUIWNNpZscHXDzRA!UvM/tCe0e58uAbYa9j5/EeLGD9+5zlcAX2Af4H/nrgdVDeUMY7PbaHgL1oGj5tuWOw==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com alt.ham-radio:1431 alt.ham-radio.hf:626 alt.ham-radio.morse:306 rec.radio.amateur.homebrew:8133

Roger that! I have a Yaesu FT-857 in my truck so I have HF through 440 and antennas for all bands. I'd be screaming my lungs out on 40M or 20M or whatever band I could raise somebody on!

Scott
N0EDV

Lois wrote:

> we never travel in that type of area but
> when we do travel by car, got plenty of food,
> several boxes cereal for me not the kids !,
> cooler with drinks and h2o and several
> road flares (makes fires fast) and my 2m/440 mobile kenwood
> and ht.
>
> also have old cb from 1975 and it works.
>
>
> Scott wrote:
>
>>I agree...here in the Northern U.S. where we (usually) get plenty of
>>snow and ice, we were taught to stay with the vehicle (and it's always a
>>good idea to have an emergency supply of food and water in the car,
>>especially in the winter months). In the case of an air search and
>>rescue, it's far easier to spot a car on the ground (which is usually
>>very near to a road) rather than spot a person in the woods...
>>

From 5425034831679974201
X-Google-Thread: 10ed5f,dc19b896dd89980a
X-Google-Thread: 114a57,dc19b896dd89980a
X-Google-Thread: f7796,dc19b896dd89980a
X-Google-Thread: fc2a5,dc19b896dd89980a
X-Google-Attributes: gid10ed5f,gid114a57,gidf7796,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newscon06.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!newssvr14.news.prodigy.net.POSTED!bbf2b588!not-for-mail
From: "Zarky Zork" <zorkyzork@bonkaloo.net>
Newsgroups: alt.ham-radio,alt.ham-radio.hf,alt.ham-radio.morse,rec.radio.amateur.homebrew
References: <RqmdneZhJOJaFeXYnZ2dnUVZ_vCdnZ2d@comcast.com>
Subject: Re: James Kim: new vs old tech
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Message-ID: <2creh.27902$wP1.14825@newssvr14.news.prodigy.net>
NNTP-Posting-Host: 69.105.139.178
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr14.news.prodigy.net 1165639550 ST000 69.105.139.178 (Fri, 08 Dec 2006 23:45:50 EST)
NNTP-Posting-Date: Fri, 08 Dec 2006 23:45:50 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:

TSU[@I_AOXSABPXX@XOR_RLA[B]BQUDO@HTHOCULF@^PGDTFOG[]VCWZBL[\YUWHANGYZEFNHFZPNLOBUN
SS^_LGEVWEY\PHO@YJSSWBBDT\PFD^ESBTXVCCMTD]JCJLE_IJMFNRY]SWE[S[D_CNB__ZK^VGVCKHA[S
@COB^[@ZQSDFQ\BPMS@DZVUKQTJL
Date: Sat, 09 Dec 2006 04:45:50 GMT
Xref: g2news2.google.com alt.ham-radio:1432 alt.ham-radio.hf:627 alt.ham-radio.morse:307 rec.radio.amateur.homebrew:8134

keep in mind, he, like most of us, was just a middle class guy who had essentially no experience in rugged, snowy terrain. He lived in SF, in the city. His family was going up to visit relatives. How often do normal middle class folks carry a big-ass survival kit that would help them survive for weeks in the snowy wilderness, even when they're driving through the snowy wilderness between two major metropolitan areas?

It just lets us know what everybody who lives in Alaska, or North Dakota, or Montana, already knows -- far away is closer than you think.

From 7157268984569748575
X-Google-Thread: fc2a5,6d13078417a672d1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!news.glorb.com!newsfeeds.sol.net!newsfeed.news2me.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread3.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
Message-ID: <4579DC02.4020401@invalid.invalid>
From: Doug Smith W9WI <w9wi@invalid.invalid>
Reply-To: w9wi@invalid.invalid
Organization: Ham Radio W9WI
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.0.1) Gecko/20020830
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: QRP Rig
References: <12nf5133n0pdjdb@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 16
Date: Fri, 08 Dec 2006 21:41:24 GMT
NNTP-Posting-Host: 4.153.68.195
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1165614084 4.153.68.195 (Fri, 08 Dec 2006 13:41:24 PST)
NNTP-Posting-Date: Fri, 08 Dec 2006 13:41:24 PST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8135

Doug Birky wrote:
> I have built a Tiny Tornado on 40m. It TX and RX fine. I have my ICOM751
> tuned to 7.040 for help in tuning. I notice that when I turn the Tornado on,
> I get a solid tone. It does transmit fine, but when I release the key, I get

> this solid tone. Anyone else experience this?

This is a direct-conversion receiver: the beat-frequency oscillator operates just off the 7.040MHz frequency. Enough of it leaks out of the unit (especially depending on what kind of case you put it in) to be picked up by your IC-751.

--
Doug Smith W9WI
Pleasant View (Nashville), TN EM66
http://www.w9wi.com

From -5630752830029306232
X-Google-Thread: fc2a5,4ddcaa4fd0d436ff,start
X-Google-Thread: 107ada,4ddcaa4fd0d436ff,start
X-Google-Thread: 10bf43,2c4455d409626fd9
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!news-in-01.newsfeed.easynews.com!easynews.com!easynews!newsfeed.news2me.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: What's REALLY Going to Happen When the Code Test Drops
From: Slow Code <my.mail@no.spam>
References: <ga2n2.uro.17.1@news.alt.net> <h3jkm21dmsoreokn216n16cahqb2f62ds3@4ax.com> <1164670674.764624.21590@f16g2000cwb.googlegroups.com> <t5vmm21c7vctu5p1sgd4u0u7tc0s9l7j62@4ax.com> <1164682092.492069.211240@l39g2000cwd.googlegroups.com> <1165407544.057957.176440@n67g2000cwd.googlegroups.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 58
Message-ID: <Nfoeh.8470$ql2.7534@newsread3.news.pas.earthlink.net>
Date: Sat, 09 Dec 2006 01:25:01 GMT
NNTP-Posting-Host: 4.254.227.115
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1165627501 4.254.227.115 (Fri, 08 Dec 2006 17:25:01 PST)
NNTP-Posting-Date: Fri, 08 Dec 2006 17:25:01 PST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8136 rec.radio.amateur.misc:26873 rec.radio.amateur.policy:57246

"K4YZ" <k4yz_02@yahoo.com> wrote in news:1165407544.057957.176440@n67g2000cwd.googlegroups.com:

>
> snot-scam-and-sleaze@hotmail.com wrote:

>> Mark@kb9rqz.aprs wrote:
>> > On 27 Nov 2006 15:37:54 -0800, hot-ham-and-cheese@hotmail.com wrote:
>> > >Mark@kb9rqz.aprs wrote:
>> > >> On Sun, 26 Nov 2006 19:59:00 -0500, ". . . _" <ProCoder@anon>
>> > >> wrote:
>> > >>
>> > >> >This site will help you work on your CW.
>> > >> >http://www.cq2k.com/
>> > >> >
>> > >> well it did not work 6 years ago, why would I expect to work now?
>> > >>
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>
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> minus the migration back to the repeaters.
>
>   Then it will be business as usual...Just as it has been for the
> last 5 major changes of Amateur Radio regulations that were supposed to
> bring magnificent numbers of new operators to the fold.
>
> Steve, K4YZ

No, the bands are going to get worse over the long haul. We got people that don't want to be skilled knowledgable hams. If they're too lazy to learn CW they are going to be too lazy to learn other things too. Technical discussions will decline. It will start to sound like CB.

I give ham radio fifteen years after the code requirement is eliminated to totally get there, but it will be noticable that it's going downhill quality wise within the first five years.

Just listen to the no-code ignorance on repeaters, you don't think thats no going to migrate to HF?

SC

```
From 1116819838739804593
X-Google-Thread: fc2a5,ce153bacb0985428,start
X-Google-Thread: fc8b1,ce153bacb0985428,start
X-Google-Thread: 108122,ce153bacb0985428,start
X-Google-Thread: 111d0a,ce153bacb0985428,start
X-Google-Thread: 113975,ce153bacb0985428,start
X-Google-Attributes: gidfc2a5,gidfc8b1,gid108122,gid111d0a,gid113975,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!73g2000cwn.googlegroups.com!not-for-mail
From: bill.meara@gmail.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,sci.electronics.basics,sci.astro.amateur
Subject: SolderSmoke #43: LP Filters, Titan, Feedback amps, Return Loss Bridges, "Gonzo Gizmos"
Date: 9 Dec 2006 06:08:45 -0800
Organization: http://groups.google.com
Lines: 51
Message-ID: <1165673325.215679.235050@73g2000cwn.googlegroups.com>
NNTP-Posting-Host: 86.141.199.47
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1165673332 9718 127.0.0.1 (9 Dec 2006 14:08:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 9 Dec 2006 14:08:52 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 73g2000cwn.googlegroups.com; posting-host=86.141.199.47;
   posting-account=7vRsuQwAAADlh58wGAIfEFYQRw36eW7d
Xref: g2news2.google.com rec.radio.amateur.homebrew:8137
rec.radio.amateur.boatanchors:6648 rec.radio.amateur.equipment:7494
sci.electronics.basics:30403 sci.astro.amateur:46369
```

SolderSmoke!
A SHOW FOR ELECTRONICS HOMEBREWERS!

http://www.soldersmoke.com

Listen at: http://www.soldersmoke.com

SolderSmoke   #43 December 9, 2006
-- LP filters.
-- Feedback on feedback (in amps).
-- Return loss calc.
-- Exploring Titan.
-- London tornado.
-- Maxwell's equations.
-- TRS 80 Model 100.

-- Name-that-Noise.
-- Book: "Gonzo Gizmos."
-- MAILBAG: AK9N, N2NLY, NR5A, Ramakrishnan

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Mike, KL7R, in Juneau, Alaska, and Bill, M0HBR, in London, England meet regularly on the ECHOLINK system to discuss their homebrew radio projects. We are making them available as PODCASTS.

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http://www.soldersmoke.com/soldersmoke.rss

If you don't have an MP3 player you can just go to the site below and listen to the latest program (and earlier editions) using the audio software on your computer.

http://www.soldersmoke.com

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We hope you enjoy the program. Please send us feedback.

73 from London
Bill M0HBR N2CQR CU2JL
http://www.gadgeteer.us

From 4298362815736040801
X-Google-Thread: fc2a5,4ddcaa4fd0d436ff
X-Google-Thread: 107ada,4ddcaa4fd0d436ff
X-Google-Thread: 10bf43,2c4455d409626fd9
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone.austin.rr.com!news.rr.com!
tornado.texas.rr.com.POSTED!53ab2750!not-for-mail
From: "U-Know-Who" <no-one@nowhere.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
References: <ga2n2.uro.17.1@news.alt.net>
<h3jkm21dmsoreokn216n16cahqb2f62ds3@4ax.com>
<1164670674.764624.21590@f16g2000cwb.googlegroups.com>

```
<t5vmm21c7vctu5p1sgd4u0u7tc0s9l7j62@4ax.com>
<1164682092.492069.211240@l39g2000cwd.googlegroups.com>
<1165407544.057957.176440@n67g2000cwd.googlegroups.com>
<Nfoeh.8470$ql2.7534@newsread3.news.pas.earthlink.net>
Subject: Re: What's REALLY Going to Happen When the Code Test Drops
Lines: 65
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <VFzeh.3275$qp1.2623@tornado.texas.rr.com>
Date: Sat, 09 Dec 2006 14:23:49 GMT
NNTP-Posting-Host: 67.10.92.242
X-Complaints-To: abuse@rr.com
X-Trace: tornado.texas.rr.com 1165674229 67.10.92.242 (Sat, 09 Dec 2006 08:23:49
CST)
NNTP-Posting-Date: Sat, 09 Dec 2006 08:23:49 CST
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8138
rec.radio.amateur.misc:26876 rec.radio.amateur.policy:57254


"Slow Code" <my.mail@no.spam> wrote in message
news:Nfoeh.8470$ql2.7534@newsread3.news.pas.earthlink.net...
> "K4YZ" <k4yz_02@yahoo.com> wrote in
> news:1165407544.057957.176440@n67g2000cwd.googlegroups.com:
>
>>
>> snot-scam-and-sleaze@hotmail.com wrote:
>>> Mark@kb9rqz.aprs wrote:
>>> > On 27 Nov 2006 15:37:54 -0800, hot-ham-and-cheese@hotmail.com wrote:
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>>> > >> wrote:
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>>> > >> >This site will help you work on your CW.
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>>> > >> >
>>> > >> well it did not work 6 years ago, why would I expect to work now?
>>> > >>
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>>> > >
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>>>
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>
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> no going to migrate to HF?
>
> SC

It would certainly be an improvement over you.

From 7949199633568139471
X-Google-Thread: fc2a5,4ddcaa4fd0d436ff
X-Google-Thread: 107ada,4ddcaa4fd0d436ff
X-Google-Thread: 10bf43,2c4455d409626fd9
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: What's REALLY Going to Happen When the Code Test Drops
Date: Sat, 09 Dec 2006 11:23:16 -0500
Message-ID: <tkoln210imq5gm2v0gruc8i942jpgavg3m@4ax.com>
References: <ga2n2.uro.17.1@news.alt.net>
<h3jkm21dmsoreokn216n16cahqb2f62ds3@4ax.com>
<1164670674.764624.21590@f16g2000cwb.googlegroups.com>

```
<t5vmm21c7vctu5p1sgd4u0u7tc0s9l7j62@4ax.com>
<1164682092.492069.211240@l39g2000cwd.googlegroups.com>
<1165407544.057957.176440@n67g2000cwd.googlegroups.com>
<Nfoeh.8470$ql2.7534@newsread3.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 75
NNTP-Posting-Date: 09 Dec 2006 15:28:43 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8139
rec.radio.amateur.misc:26879 rec.radio.amateur.policy:57259

On Sat, 09 Dec 2006 01:25:01 GMT, Slow Code <my.mail@no.spam> wrote:

>"K4YZ" <k4yz_02@yahoo.com> wrote in
>news:1165407544.057957.176440@n67g2000cwd.googlegroups.com:
>
>>
>> snot-scam-and-sleaze@hotmail.com wrote:
>>> Mark@kb9rqz.aprs wrote:
>>> > On 27 Nov 2006 15:37:54 -0800, hot-ham-and-cheese@hotmail.com wrote:
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>>     Here's what's going to happen after the Morse Code exam is dropped:
>>
>>     There will be a brief surge of NCT's who upgrade to an HF license.
>> There will be a brief (maybe 6 months?) burst of new ops on HF, then it
>> will be back to the repeaters.
>>
>>     There will be a brief surge of new Amateurs.  Ditto the above,
>> minus the migration back to the repeaters.
```

>>
>>   Then it will be business as usual...Just as it has been for the
>> last 5 major changes of Amateur Radio regulations that were supposed to
>> bring magnificent numbers of new operators to the fold.
>>
>> Steve, K4YZ
>
>
>No, the bands are going to get worse over the long haul.

hardly possible
> We got people
>that don't want to be skilled knowledgable hams.

where?
> If they're too lazy to
>learn CW they are going to be too lazy to learn other things too.

bulsshit
>Technical discussions will decline. It will start to sound like CB.

so?
>
>I give ham radio fifteen years after the code requirement is eliminated to
>totally get there, but it will be noticable that it's going downhill
>quality wise within the first five years.

you and steve are on the air I will hardly be noticed
>
>Just listen to the no-code ignorance on repeaters, you don't think thats
>no going to migrate to HF?

what no code ignorance?
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -3941910067010628333
X-Google-Thread: fc2a5,4ddcaa4fd0d436ff
X-Google-Thread: 107ada,4ddcaa4fd0d436ff
X-Google-Thread: 10bf43,2c4455d409626fd9
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!
feeder2.news.jippii.net!feeder1.news.jippii.net!reader1.news.saunalahti.fi!
53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups:

rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: What's REALLY Going to Happen When the Code Test Drops
Message-ID: <7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com>
References: <ga2n2.uro.17.1@news.alt.net>
<h3jkm21dmsoreokn216n16cahqb2f62ds3@4ax.com>
<1164670674.764624.21590@f16g2000cwb.googlegroups.com>
<t5vmm21c7vctu5p1sgd4u0u7tc0s9l7j62@4ax.com>
<1164682092.492069.211240@l39g2000cwd.googlegroups.com>
<1165407544.057957.176440@n67g2000cwd.googlegroups.com>
<Nfoeh.8470$ql2.7534@newsread3.news.pas.earthlink.net>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 21
Date: Sat, 09 Dec 2006 18:36:30 +0200
NNTP-Posting-Host: 195.197.6.88
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.saunalahti.fi 1165682108 195.197.6.88 (Sat, 09 Dec 2006 18:35:08 EET)
NNTP-Posting-Date: Sat, 09 Dec 2006 18:35:08 EET
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:8140 rec.radio.amateur.misc:26885 rec.radio.amateur.policy:57271

On Sat, 09 Dec 2006 01:25:01 GMT, Slow Code <my.mail@no.spam> wrote:

>
>No, the bands are going to get worse over the long haul. We got people
>that don't want to be skilled knowledgable hams. If they're too lazy to
>learn CW they are going to be too lazy to learn other things too.
>Technical discussions will decline. It will start to sound like CB.

From the European perspective, I do not understand this discussion.
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required at frequencies below 30 MHz.

I haven't observed any problems with persons using the HF bands
without the CW test.

Listen for yourself, can you tell which European operator has passed
the CW test and which one has not passed the test.

Paul OH3LWR

From -5662280097810788312
X-Google-Thread: fc2a5,4ddcaa4fd0d436ff
X-Google-Thread: 107ada,4ddcaa4fd0d436ff
X-Google-Thread: 10bf43,2c4455d409626fd9
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.maxwell.syr.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: What's REALLY Going to Happen When the Code Test Drops
Date: Sat, 09 Dec 2006 11:51:06 -0500
Message-ID: <r7qln2d30jdrsr5maqi1jfm6jtn8aq82bl@4ax.com>
References: <ga2n2.uro.17.1@news.alt.net>
<h3jkm21dmsoreokn216n16cahqb2f62ds3@4ax.com>
<1164670674.764624.21590@f16g2000cwb.googlegroups.com>
<t5vmm21c7vctu5p1sgd4u0u7tc0s9l7j62@4ax.com>
<1164682092.492069.211240@l39g2000cwd.googlegroups.com>
<1165407544.057957.176440@n67g2000cwd.googlegroups.com>
<Nfoeh.8470$ql2.7534@newsread3.news.pas.earthlink.net>
<7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 37
NNTP-Posting-Date: 09 Dec 2006 15:56:33 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8141
rec.radio.amateur.misc:26887 rec.radio.amateur.policy:57278
```

On Sat, 09 Dec 2006 18:36:30 +0200, Paul Keinanen <keinanen@sci.fi>
wrote:

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>
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>
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>without the CW test.
>
>Listen for yourself, can you tell which European operator has passed
>the CW test and which one has not passed the test.
>
>Paul OH3LWR
>

being a tech in USA I am sorry I don't reconize your prefix

US hams are such stick in mud as to opose ANY change ever and claim
the sky is falling

I will corect you

thier is no disscussion going this a merely the last stages of the
long and bitter struge to finsh the task of ending code testing in the
USA

and Id expect this lang to get worse before it gets better
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -8785541847870460310
X-Google-Thread: fc2a5,4ddcaa4fd0d436ff
X-Google-Thread: 107ada,4ddcaa4fd0d436ff
X-Google-Thread: 10bf43,2c4455d409626fd9
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!news2.volia.net!
newsfeed01.sul.t-online.de!t-online.de!news.germany.com!aioe.org!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: What's REALLY Going to Happen When the Code Test Drops
Date: Sat, 09 Dec 2006 09:03:24 -0800
Organization: Aioe.org NNTP Server
Lines: 29
Message-ID: <eleq91$744$1@aioe.org>
References: <ga2n2.uro.17.1@news.alt.net>
<h3jkm21dmsoreokn216n16cahqb2f62ds3@4ax.com>
<1164670674.764624.21590@f16g2000cwb.googlegroups.com>
<t5vmm21c7vctu5p1sgd4u0u7tc0s9l7j62@4ax.com>
<1164682092.492069.211240@l39g2000cwd.googlegroups.com>
<1165407544.057957.176440@n67g2000cwd.googlegroups.com>
<Nfoeh.8470$ql2.7534@newsread3.news.pas.earthlink.net>
<7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com>
NNTP-Posting-Host: KUTbJW4oe2QbHSpyYHzLAA.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
In-Reply-To:
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8142
rec.radio.amateur.misc:26889 rec.radio.amateur.policy:57281

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>
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> without the CW test.
>
> Listen for yourself, can you tell which European operator has passed
> the CW test and which one has not passed the test.
>
> Paul OH3LWR
>

Paul:

If before I did not have reason enough to appreciate European logic, I
do now.

Warmest regards,
JS

From -2427658999344295387
X-Google-Thread: fc2a5,c8c6bcd05157cc02,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!post01.iad01!not-for-mail
From: egg <audioh@volumized.it>
Newsgroups: rec.radio.amateur.homebrew
Date: Sat, 9 Dec 2006 12:36:31 -0500
Message-ID: <457af41f$0$2999$9a6e19ea@unlimited.newshosting.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Subject: anyone know?
User-Agent: Unison/1.7.7
Lines: 5
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8143

anyone know or have pictures of what kind of console this came out of ?

http://cgi.ebay.ca/NORDEMENDE-AM-FM-STEREO-SW1-SW2-SHORTWAVE-TUBE-RADIO_W0QQitemZ270064344456QQihZ017QQcategoryZ50596QQssPageNameZWDVWQQrdZ1QQcmdZViewItem

From -6622988544159123236
X-Google-Thread: fc2a5,4ddcaa4fd0d436ff
X-Google-Thread: 107ada,4ddcaa4fd0d436ff
X-Google-Thread: 10bf43,2c4455d409626fd9
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.194.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!
news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: What's REALLY Going to Happen When the Code Test Drops
Date: Sat, 9 Dec 2006 17:41:21 +0000 (UTC)
Organization: MGT Consulting
Lines: 28
Message-ID: <slrnenlt23.ulu.gsm@cable.mendelson.com>
References: <ga2n2.uro.17.1@news.alt.net>
<h3jkm21dmsoreokn216n16cahqb2f62ds3@4ax.com>
<1164670674.764624.21590@f16g2000cwb.googlegroups.com>
<t5vmm21c7vctu5p1sgd4u0u7tc0s9l7j62@4ax.com>
<1164682092.492069.211240@l39g2000cwd.googlegroups.com>
<1165407544.057957.176440@n67g2000cwd.googlegroups.com>
<Nfoeh.8470$ql2.7534@newsread3.news.pas.earthlink.net>
<7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-139-80-245.bb.netvision.net.il
X-Trace: marvin.misty.com 1165686081 19303 89.139.80.245 (9 Dec 2006 17:41:21 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Sat, 9 Dec 2006 17:41:21 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8144
rec.radio.amateur.misc:26894 rec.radio.amateur.policy:57291

Paul Keinanen wrote:
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I don't know if or when they dropped it), but the Soviet Union had
a no code HF license starting around 1956. Japan also had one
at one time.

From the point of view of the "DX", like you Paul, I'm glad that

the low end of the 40m and 75 meter phone bands was extended. I PREFER
SSB, a 20 meters has been open to the U.S. on "good days" for around
20 minutes.

Due to the influence of the Israel Amateur Radio Club, the code
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operating events when relgious hams can't operate, pushing for
a five year requirement to convert a foreign license for new immegrants,
etc, they really have become the superfulous old man's CW club,
dragging the hobby down with them.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
IL Voice: (07)-7424-1667 Fax ONLY: 972-2-648-1443 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/

From 3894496945054223450
X-Google-Thread: fc2a5,4ddcaa4fd0d436ff
X-Google-Thread: 107ada,4ddcaa4fd0d436ff
X-Google-Thread: 10bf43,2c4455d409626fd9
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news-
spur1.maxwell.syr.edu!news.maxwell.syr.edu!nntpserver.com!zeus.nntpserver.com!
hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: What's REALLY Going to Happen When the Code Test Drops
Date: Sat, 09 Dec 2006 12:44:16 -0500
Message-ID: <udtln2dsaup5pbd6dc6t8qk6nb7da6q9e2@4ax.com>
References: <ga2n2.uro.17.1@news.alt.net>
<h3jkm21dmsoreokn216n16cahqb2f62ds3@4ax.com>
<1164670674.764624.21590@f16g2000cwb.googlegroups.com>
<t5vmm21c7vctu5p1sgd4u0u7tc0s9l7j62@4ax.com>
<1164682092.492069.211240@l39g2000cwd.googlegroups.com>
<1165407544.057957.176440@n67g2000cwd.googlegroups.com>
<Nfoeh.8470$ql2.7534@newsread3.news.pas.earthlink.net>
<7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com>
<slrnenlt23.ulu.gsm@cable.mendelson.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 29
NNTP-Posting-Date: 09 Dec 2006 16:49:48 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8145
rec.radio.amateur.misc:26896 rec.radio.amateur.policy:57294

On Sat, 9 Dec 2006 17:41:21 +0000 (UTC), gsm@mendelson.com (Geoffrey
S. Mendelson) wrote:

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>etc, they really have become the superfulous old man's CW club,
>dragging the hobby down with them.
>
>Geoff.

ah just one more reason for me not to make Aliyah
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

---

From -4847695950621367606
X-Google-Thread: fc2a5,4ddcaa4fd0d436ff
X-Google-Thread: 107ada,4ddcaa4fd0d436ff
X-Google-Thread: 10bf43,2c4455d409626fd9
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 09 Dec 2006 12:54:35 -0600
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
References: <ga2n2.uro.17.1@news.alt.net>
<h3jkm21dmsoreokn216n16cahqb2f62ds3@4ax.com>
<1164670674.764624.21590@f16g2000cwb.googlegroups.com>
<t5vmm21c7vctu5p1sgd4u0u7tc0s9l7j62@4ax.com>
<1164682092.492069.211240@l39g2000cwd.googlegroups.com>

```
<1165407544.057957.176440@n67g2000cwd.googlegroups.com>
<Nfoeh.8470$ql2.7534@newsread3.news.pas.earthlink.net>
<7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com>
Subject: Re: What's REALLY Going to Happen When the Code Test Drops
Date: Sat, 9 Dec 2006 13:54:21 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <v4udneNaF5P2m-bYnZ2dnUVZ_vipnZ2d@comcast.com>
Lines: 37
NNTP-Posting-Host: 68.61.216.97
X-Trace: sv3-JJopdiod3Rf6PJBNCxzcLLloMR4inQOQrYkxKXMjrDuffATeFtMNChGEPwnr7YL/
52i65iJVDPx3SzY!
GqMJKHBz7MIK5TaPNnizr6ATbOBJIvBV8Rt3RXoVmyMSMldJdf5w2Me0qY6e5gz46YSigV8Ub8Iw!
R0+IIuggKEgLnL4=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8146
rec.radio.amateur.misc:26899 rec.radio.amateur.policy:57297
```

"Paul Keinanen" <keinanen@sci.fi> wrote in message
news:7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com...

```
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>
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> the CW test and which one has not passed the test.
>
> Paul OH3LWR
>
```

Other countries are not a problem. Personally I do not attempt to predict
what will happen in the US. However some fear that with easy licensing and

the lax enforcement here that there could potentially be serious problems. They fear a repetition of what happened to the Citizens Band here. With little to no enforcement of violations, that band became such a sewer that you don't dare let kids listen to it.   Recently two CB operators got into a fight over the radio, sought each other out, and one was killed. It is not the world we fear but ourselves.

Dee, N8UZE

From -1031078277692704747
X-Google-Thread: fc2a5,4ddcaa4fd0d436ff
X-Google-Thread: 107ada,4ddcaa4fd0d436ff
X-Google-Thread: 10bf43,2c4455d409626fd9
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!aioe.org!not-for-mail
From: "John Smith" <assemblywizard@gmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: What's REALLY Going to Happen When the Code Test Drops
Date: Sat, 9 Dec 2006 11:07:56 -0800
Organization: Aioe.org NNTP Server
Lines: 48
Message-ID: <elf1ih$od6$1@aioe.org>
References: <ga2n2.uro.17.1@news.alt.net>
<h3jkm21dmsoreokn216n16cahqb2f62ds3@4ax.com>
<1164670674.764624.21590@f16g2000cwb.googlegroups.com>
<t5vmm21c7vctu5p1sgd4u0u7tc0s9l7j62@4ax.com>
<1164682092.492069.211240@l39g2000cwd.googlegroups.com>
<1165407544.057957.176440@n67g2000cwd.googlegroups.com>
<Nfoeh.8470$ql2.7534@newsread3.news.pas.earthlink.net>
<7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com> <v4udneNaF5P2m-bYnZ2dnUVZ_vipnZ2d@comcast.com>
Reply-To: "John Smith" <assemblywizard@gmail.com>
NNTP-Posting-Host: KUTbJW4oe2QbHSpyYHzLAA.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.homebrew:8147
rec.radio.amateur.misc:26902 rec.radio.amateur.policy:57300

Dee:

England feared granting us independence and the right to govern ourselves, frankly, they were correct; we have been a problem ever since!

Warmest regards,

JS

"Dee Flint" <deeflint01@comcast.net> wrote in message
news:v4udneNaF5P2m-bYnZ2dnUVZ_vipnZ2d@comcast.com...
>
> "Paul Keinanen" <keinanen@sci.fi> wrote in message
> news:7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com...
>> On Sat, 09 Dec 2006 01:25:01 GMT, Slow Code <my.mail@no.spam> wrote:
>>
>>>
>>>No, the bands are going to get worse over the long haul. We got people
>>>that don't want to be skilled knowledgable hams. If they're too lazy to
>>>learn CW they are going to be too lazy to learn other things too.
>>>Technical discussions will decline. It will start to sound like CB.
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>> From the European perspective, I do not understand this discussion.
>> Most European countries (except Russia) removed the CW requirement
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>> required at frequencies below 30 MHz.
>>
>> I haven't observed any problems with persons using the HF bands
>> without the CW test.
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>> Listen for yourself, can you tell which European operator has passed
>> the CW test and which one has not passed the test.
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>> Paul OH3LWR
>>
>
> Other countries are not a problem. Personally I do not attempt to predict
> what will happen in the US. However some fear that with easy licensing
> and the lax enforcement here that there could potentially be serious
> problems. They fear a repetition of what happened to the Citizens Band
> here. With little to no enforcement of violations, that band became such
> a sewer that you don't dare let kids listen to it.   Recently two CB
> operators got into a fight over the radio, sought each other out, and one
> was killed. It is not the world we fear but ourselves.
>
> Dee, N8UZE
>

From 4449439044340013196
X-Google-Thread: 10ed5f,dc19b896dd89980a
X-Google-Thread: 114a57,dc19b896dd89980a
X-Google-Thread: f7796,dc19b896dd89980a
X-Google-Thread: fc2a5,dc19b896dd89980a
X-Google-Attributes: gid10ed5f,gid114a57,gidf7796,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!pd7cy1no!pd7cy2no!shaw.ca!pd7urf2no.POSTED!

53ab2750!not-for-mail
X-Trace-PostClient-IP: 70.78.123.121
Newsgroups: alt.ham-radio,alt.ham-radio.hf,alt.ham-radio.morse,rec.radio.amateur.homebrew
Subject: Re: James Kim: new vs old tech
From: Dave Oldridge <doldridg@leavethisoutshaw.ca>
References: <RqmdneZhJOJaFeXYnZ2dnUVZ_vCdnZ2d@comcast.com>
Organization: The Human Race
Message-ID: <Xns98947DC5450F6doldridgsprintca@64.59.135.159>
User-Agent: Xnews/2006.08.24
X-Antivirus: avast! (VPS 0655-1, 12/08/2006), Outbound message
X-Antivirus-Status: Clean
Lines: 30
Date: Sat, 09 Dec 2006 20:23:54 GMT
NNTP-Posting-Host: 64.59.135.176
X-Complaints-To: abuse@shaw.ca
X-Trace: pd7urf2no 1165695834 64.59.135.176 (Sat, 09 Dec 2006 13:23:54 MST)
NNTP-Posting-Date: Sat, 09 Dec 2006 13:23:54 MST
Xref: g2news2.google.com alt.ham-radio:1433 alt.ham-radio.hf:628 alt.ham-radio.morse:308 rec.radio.amateur.homebrew:8148

notbob <notbob@nothome.com> wrote in
news:RqmdneZhJOJaFeXYnZ2dnUVZ_vCdnZ2d@comcast.com:

> No doubt many are saddened by the senseless loss of James Kim, the
> family man that perished in the mountains of Western Oregon early this
> week. I think what makes it all the more tragic is that here was a
> person who was on the cutting edge of all the latest and greatest high
> tech computer and communications technology. Blackberries, photo
> cellphones, wifi PDA's and laptops, etc. I'm stunned a person in such
> a high tech vector could become so completely isolated in such a short
> distance from the mainstream.
>
> This worries me because it highlights the shortcomings of all this new
> high tech gimcrackery. As I understand it, even satellite cellphones
> require a service provider with a nearby uplink antenna. So, this
> brings up my question, as a non ham:
>
> How long do you think it would have taken James, or anyone in that
> situation, to make contact with outside help and get him and his
> family out of there if he'd had something like a basic QRP tranceiver
> and antenna and knew how to use it?

Actually, in those mountains, a 2 meter hand-held would probably have
given him someone to talk to.

--
Dave Oldridge+
ICQ 1800667

```
From -4592485049947634473
X-Google-Thread: fc2a5,4ddcaa4fd0d436ff
X-Google-Thread: 107ada,4ddcaa4fd0d436ff
X-Google-Thread: 10bf43,2c4455d409626fd9
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!80g2000cwy.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: What's REALLY Going to Happen When the Code Test Drops
Date: 9 Dec 2006 12:31:42 -0800
Organization: http://groups.google.com
Lines: 15
Message-ID: <1165696302.167589.103600@80g2000cwy.googlegroups.com>
References: <ga2n2.uro.17.1@news.alt.net>
   <h3jkm21dmsoreokn216n16cahqb2f62ds3@4ax.com>
   <1164670674.764624.21590@f16g2000cwb.googlegroups.com>
   <t5vmm21c7vctu5p1sgd4u0u7tc0s9l7j62@4ax.com>
   <1164682092.492069.211240@l39g2000cwd.googlegroups.com>
   <1165407544.057957.176440@n67g2000cwd.googlegroups.com>
   <Nfoeh.8470$ql2.7534@newsread3.news.pas.earthlink.net>
   <7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com>
   <v4udneNaF5P2m-bYnZ2dnUVZ_vipnZ2d@comcast.com>
   <elf1ih$od6$1@aioe.org>
NNTP-Posting-Host: 207.200.116.70
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165696308 31823 127.0.0.1 (9 Dec 2006 20:31:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 9 Dec 2006 20:31:48 +0000 (UTC)
In-Reply-To: <elf1ih$od6$1@aioe.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-ta06.proxy.aol.com[CFC8701E] (Prism/1.1.9), HTTP/1.1 cache-ntc-
ab06.proxy.aol.com[CFC87446] (Traffic-Server/6.1.3 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: 80g2000cwy.googlegroups.com; posting-host=207.200.116.70;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:8149
rec.radio.amateur.misc:26910 rec.radio.amateur.policy:57309
```

John Smith wrote:

> Dee:
>
> England feared granting us independence and the right to govern ourselves,
> frankly, they were correct; we have been a problem ever since!
>
> Warmest regards,

> JS

I'm of the opinion that the ARRL feared to give US radio amateurs their independence from morse code testing. :-)

LA

```
From -8027804343401999166
X-Google-Thread: fc2a5,ae26d734edd1f7f8,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!n67g2000cwd.googlegroups.com!not-for-
mail
From: "WA5PSA" <briefer@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Need help with ailing antenna bridge...
Date: 9 Dec 2006 13:24:01 -0800
Organization: http://groups.google.com
Lines: 32
Message-ID: <1165699441.158648.55760@n67g2000cwd.googlegroups.com>
NNTP-Posting-Host: 68.227.109.108
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1165699447 6742 127.0.0.1 (9 Dec 2006 21:24:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 9 Dec 2006 21:24:07 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.0),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n67g2000cwd.googlegroups.com; posting-host=68.227.109.108;
   posting-account=ip7F_A0AAABV5qhX47Og9qLXgGQlLqGk
Xref: g2news2.google.com rec.radio.amateur.homebrew:8150
```

I've got an MFJ204 antenna bridge that's sickly. It has bands A thru D. Bands A thru C work just fine. However, only the upper portion of Band D works (usually between 19MHz and 35MHz). But, between 11 MHz and 19 MHz the oscillator is usually dead. I can sometimes get it to spring to life with just the right setting of an attached antenna tuner (or by dancing around the room with aluminum foil on my head), but those techniques should not be required for factory approved operation.

It appears that the only Band D specific component is an inductor. However, I think the band switch works by placing additional inductors in series...so the

Band D inductor is always in the circuit, even for Bands A-C.
Therefore, I
don't think it's the inductor.

Any ideas why the lower portion of Band D might be dead and what I
might look
for?

Details of my efforts can be viewed at http://wa5psa.blogspot.com/
(warning...this web page should not be viewed by someone with a low
tolerance
for watching someone "learn" by mistakes).

Brad

From -4083586908559664519
X-Google-Thread: fc2a5,4ddcaa4fd0d436ff
X-Google-Thread: 107ada,4ddcaa4fd0d436ff
X-Google-Thread: 10bf43,2c4455d409626fd9
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f1g2000cwa.googlegroups.com!not-for-mail
From: hot-ham-and-cheese@hotmail.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: What's REALLY Going to Happen When the Code Test Drops
Date: 9 Dec 2006 14:54:46 -0800
Organization: http://groups.google.com
Lines: 58
Message-ID: <1165704886.690348.306000@f1g2000cwa.googlegroups.com>
References: <ga2n2.uro.17.1@news.alt.net>
   <h3jkm21dmsoreokn216n16cahqb2f62ds3@4ax.com>
   <1164670674.764624.21590@f16g2000cwb.googlegroups.com>
   <t5vmm21c7vctu5p1sgd4u0u7tc0s9l7j62@4ax.com>
   <1164682092.492069.211240@l39g2000cwd.googlegroups.com>
   <1165407544.057957.176440@n67g2000cwd.googlegroups.com>
   <Nfoeh.8470$ql2.7534@newsread3.news.pas.earthlink.net>
   <7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com>
   <v4udneNaF5P2m-bYnZ2dnUVZ_vipnZ2d@comcast.com>
NNTP-Posting-Host: 4.224.228.47
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165704892 31284 127.0.0.1 (9 Dec 2006 22:54:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 9 Dec 2006 22:54:52 +0000 (UTC)
In-Reply-To: <v4udneNaF5P2m-bYnZ2dnUVZ_vipnZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com

Injection-Info: f1g2000cwa.googlegroups.com; posting-host=4.224.228.47;
   posting-account=mMyuWQ0AAAANPpX1wK2NRuuQfAjm_kIo
Xref: g2news2.google.com rec.radio.amateur.homebrew:8151
rec.radio.amateur.misc:26917 rec.radio.amateur.policy:57320

Dee Flint wrote:
> "Paul Keinanen" <keinanen@sci.fi> wrote in message
> news:7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com...
> > On Sat, 09 Dec 2006 01:25:01 GMT, Slow Code <my.mail@no.spam> wrote:
> >
> >>
> >>No, the bands are going to get worse over the long haul. We got people
> >>that don't want to be skilled knowledgable hams. If they're too lazy to
> >>learn CW they are going to be too lazy to learn other things too.
> >>Technical discussions will decline. It will start to sound like CB.
> >
> > From the European perspective, I do not understand this discussion.
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> > after a few months of the ITU WRC decision that CW test is not
> > required at frequencies below 30 MHz.

We have the ARRL wispering in the FCCs ear.

> > I haven't observed any problems with persons using the HF bands
> > without the CW test.
> >
> > Listen for yourself, can you tell which European operator has passed
> > the CW test and which one has not passed the test.
> >
> > Paul OH3LWR
>
> Other countries are not a problem.

No country should be a problem.

> Personally I do not attempt to predict
> what will happen in the US. However some fear that with easy licensing and
> the lax enforcement here that there could potentially be serious problems.

Riley isn't doing his job?

I think what I wrote before one of the recent restructurings was, "What
I fear most about eliminating the Morse Code Exam is a lack of
enforcement, and what I fear most about maintaining the Status Quo is a
lack of enforcement."

A lack of enforcement is a lack of enforcement, and a Morse Code Exam
CANNOT be used as a substitute.

Be sure to collect evidence of USA violations and turn it in to Riley.
Don't just pass it to your OO.

> They fear a repetition of what happened to the Citizens Band here. With
> little to no enforcement of violations, that band became such a sewer that
> you don't dare let kids listen to it.   Recently two CB operators got into
> a fight over the radio, sought each other out, and one was killed. It is
> not the world we fear but ourselves.
>
> Dee, N8UZE

There are loose cannons in Amateur Radio as well.

```
From 6408068508747498720
X-Google-Thread: fc2a5,4ddcaa4fd0d436ff
X-Google-Thread: 107ada,4ddcaa4fd0d436ff
X-Google-Thread: 10bf43,2c4455d409626fd9
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 09 Dec 2006 17:25:33 -0600
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
References: <ga2n2.uro.17.1@news.alt.net>
<h3jkm21dmsoreokn216n16cahqb2f62ds3@4ax.com>
<1164670674.764624.21590@f16g2000cwb.googlegroups.com>
<t5vmm21c7vctu5p1sgd4u0u7tc0s9l7j62@4ax.com>
<1164682092.492069.211240@l39g2000cwd.googlegroups.com>
<1165407544.057957.176440@n67g2000cwd.googlegroups.com>
<Nfoeh.8470$ql2.7534@newsread3.news.pas.earthlink.net>
<7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com>   <v4udneNaF5P2m-
bYnZ2dnUVZ_vipnZ2d@comcast.com>
<1165704886.690348.306000@f1g2000cwa.googlegroups.com>
Subject: Re: What's REALLY Going to Happen When the Code Test Drops
Date: Sat, 9 Dec 2006 18:25:20 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <D7ednU4bSI1w2ObYnZ2dnUVZ_o6gnZ2d@comcast.com>
Lines: 77
NNTP-Posting-Host: 68.61.216.97
X-Trace: sv3-
arCOeeKYUMJ5Uj9w129dEf71k2gZQcGXiE+Z+j3bRJTtVVQo7t2DphRu8pWwx+YYU9CyyeUMTStseyN!
pA3tlrb06yNNQgTrmeTD+Blxu2XUTQR4EUHOtnoOHL4HCCjMTZwyVUvVATLiSlfpmBDx6byS+qHJ!
wbzl8mvEbx+hHSo=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8152
rec.radio.amateur.misc:26920 rec.radio.amateur.policy:57325

<hot-ham-and-cheese@hotmail.com> wrote in message
news:1165704886.690348.306000@f1g2000cwa.googlegroups.com...
>
> Dee Flint wrote:
>> "Paul Keinanen" <keinanen@sci.fi> wrote in message
>> news:7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com...
>> > On Sat, 09 Dec 2006 01:25:01 GMT, Slow Code <my.mail@no.spam> wrote:
>> >
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>> >
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>>
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>
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>
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>> what will happen in the US. However some fear that with easy licensing
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>
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>
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> lack of enforcement."
>

> A lack of enforcement is a lack of enforcement, and a Morse Code Exam
> CANNOT be used as a substitute.
>

If you recall, I've never been the one to claim it is any type of filter
etc. I simply think it is one of the basics and for that reason believe a
basic requirement is suitable.

> Be sure to collect evidence of USA violations and turn it in to Riley.
> Don't just pass it to your OO.
>
>> They fear a repetition of what happened to the Citizens Band here. With
>> little to no enforcement of violations, that band became such a sewer
>> that
>> you don't dare let kids listen to it.   Recently two CB operators got
>> into
>> a fight over the radio, sought each other out, and one was killed. It is
>> not the world we fear but ourselves.
>>
>> Dee, N8UZE
>
> There are loose cannons in Amateur Radio as well.
>

That there are.

Dee, N8UZE

From 5325278395257062314
X-Google-Thread: fc2a5,77a8abd4a534b187,start
X-Google-Thread: 10bf43,77a8abd4a534b187,start
X-Google-Thread: 114aac,7da1d4d770f90e92
X-Google-Thread: 1109af,77a8abd4a534b187,start
X-Google-Attributes: gidfc2a5,gid10bf43,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!news.glorb.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.shortwave,rec.radio.swap
Subject: Re: Call for Action-CW Advocacy organization
From: Maxwell Plonk <Maxwell@plonk.me>
References: <12ngg4j105cjp01@corp.supernews.com> <telamon_spamshield-F6A0EB.18540107122006@newsclstr02.news.prodigy.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 24
Message-ID: <HTIeh.8314$sf5.2493@newsread4.news.pas.earthlink.net>
Date: Sun, 10 Dec 2006 00:52:55 GMT

NNTP-Posting-Host: 4.227.154.162
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1165711975 4.227.154.162 (Sat, 09 Dec 2006 16:52:55 PST)
NNTP-Posting-Date: Sat, 09 Dec 2006 16:52:55 PST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8153 rec.radio.amateur.policy:57330 rec.radio.shortwave:60833 rec.radio.swap:10570

Telamon <telamon_spamshield@pacbell.net.is.invalid> wrote in
news:telamon_spamshield-F6A0EB.18540107122006@newsclstr02.news.prodigy.com:

> In article <12ngg4j105cjp01@corp.supernews.com>,
> "FedUP" <fedup@intergate.com> wrote:
>
>>   This is not a warm and fuzzy �feel good� letter like much of the
>> baloney you read in the ham radio press.
>
> < Snip >
>
> Nobody cares.
>
> < Plonk >

You don't care because you're a Lazy ass and don't want to be a skilled radio hobbiest, but there are a lot of us out here that do care and want to be skilled. When you need help with anything your sorry ass is going to be calling on us skilled operators for help.

Max

From 6271595083970547126
X-Google-Thread: fc8b1,152c6706d63b7f59,start
X-Google-Thread: fc2a5,152c6706d63b7f59,start
X-Google-Thread: 10bf43,152c6706d63b7f59,start
X-Google-Thread: fa029,152c6706d63b7f59,start
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.scanner
Subject: Do no-code hams wipe their butts?
From: Slow Code <my.mail@no.spam>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 4

Message-ID: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net>
Date: Sun, 10 Dec 2006 00:52:57 GMT
NNTP-Posting-Host: 4.227.154.162
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1165711977 4.227.154.162 (Sat, 09 Dec 2006 16:52:57 PST)
NNTP-Posting-Date: Sat, 09 Dec 2006 16:52:57 PST
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6654 rec.radio.amateur.homebrew:8154 rec.radio.amateur.policy:57332 rec.radio.scanner:8246

If they're to lazy to learn CW for good radio skills, they might be too lazy to use toilet paper for good hygiene.

SC

From 5881642726672903861
X-Google-Thread: fc2a5,4ddcaa4fd0d436ff
X-Google-Thread: 107ada,4ddcaa4fd0d436ff
X-Google-Thread: 10bf43,2c4455d409626fd9
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: What's REALLY Going to Happen When the Code Test Drops
From: Slow Code <my.mail@no.spam>
References: <ga2n2.uro.17.1@news.alt.net> <h3jkm21dmsoreokn216n16cahqb2f62ds3@4ax.com> <1164670674.764624.21590@f16g2000cwb.googlegroups.com> <t5vmm21c7vctu5p1sgd4u0u7tc0s9l7j62@4ax.com> <1164682092.492069.211240@l39g2000cwd.googlegroups.com> <1165407544.057957.176440@n67g2000cwd.googlegroups.com> <Nfoeh.8470$ql2.7534@newsread3.news.pas.earthlink.net> <7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com> <v4udneNaF5P2m-bYnZ2dnUVZ_vipnZ2d@comcast.com> <elf1ih$od6$1@aioe.org> <1165696302.167589.103600@80g2000cwy.googlegroups.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 28
Message-ID: <%TIeh.8330$sf5.7943@newsread4.news.pas.earthlink.net>
Date: Sun, 10 Dec 2006 00:53:15 GMT
NNTP-Posting-Host: 4.227.154.162
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1165711995 4.227.154.162 (Sat, 09 Dec 2006 16:53:15 PST)
NNTP-Posting-Date: Sat, 09 Dec 2006 16:53:15 PST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8155 rec.radio.amateur.misc:26931 rec.radio.amateur.policy:57344

```
"LenAnderson@ieee.org" <LenAnderson@ieee.org> wrote in
news:1165696302.167589.103600@80g2000cwy.googlegroups.com:

>
> John Smith wrote:
>> Dee:
>>
>> England feared granting us independence and the right to govern
>> ourselves, frankly, they were correct; we have been a problem ever
>> since!
>>
>> Warmest regards,
>> JS
>
>    I'm of the opinion that the ARRL feared to give US radio amateurs
>    their independence from morse code testing.  :-)
>
>    LA
```

Secretly, the ARRL would like to see the code requirement go away,
but they can't display that outwardly because it will make them look like
they are against having good skilled hams. Rest assured, when the code
requirement is eliminated, the ARRL (Anti-Radio-Relay-League) with try to
come up with a way to capitalize on the dumbing down of the service so
they can get more money in the corporate bank account.

SC

```
From -8074417188946353073
X-Google-Thread: fc2a5,c8c6bcd05157cc02
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.karotte.org!
uucp.gnuu.de!newsfeed.arcor.de!newsspool3.arcor-online.net!news.arcor.de.POSTED!
not-for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew
References: <457af41f$0$2999$9a6e19ea@unlimited.newshosting.com>
Subject: Re: anyone know?
Date: Sun, 10 Dec 2006 01:53:14 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 19
Message-ID: <457b5f5f$0$5713$9b4e6d93@newsspool3.arcor-online.net>
Organization: Arcor
NNTP-Posting-Date: 10 Dec 2006 02:14:07 CET
NNTP-Posting-Host: 7e40cdb8.newsspool3.arcor-online.net
```

```
X-Trace:
DXC=BVJ2QM`mkk`OKO]LCQ@0g`McF=Q^Z^V3h4Fo<]lROoRagUcjd<3m<;b@\l9V3N^`3nH2GHD?
hOgLa2YBi2SgX77mM9Ui0]F[I4iB9iT0A9?lfc
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:8156

correct it is: Nordmende
http://de.wikipedia.org/wiki/Nordmende

- Henry

--
www.ehydra.dyndns.info


"egg" <audioh@volumized.it> schrieb im Newsbeitrag
news:457af41f$0$2999$9a6e19ea@unlimited.newshosting.com...
> anyone know or have pictures of what kind of console this came out of ?
>
>
http://cgi.ebay.ca/NORDEMENDE-AM-FM-STEREO-SW1-SW2-SHORTWAVE-TUBE-
RADIO_W0QQitemZ270064344456QQihZ017QQcategoryZ50596QQssPageNameZWDVWQQrdZ1QQcmdZVi
ewItem
>
>




From -3108786074981288423
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: 10f7a7,39cbbe7552db04b4,start
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gid10f7a7,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l12g2000cwl.googlegroups.com!not-for-
mail
From: brian.burp@yahoo.com
Newsgroups:
rec.radio.amateur.boatanchors,alt.usenet.kooks,rec.radio.amateur.homebrew,rec.radi
o.amateur.policy,rec.radio.scanner
Subject: Re: Do no-code hams wipe their butts?
Date: 9 Dec 2006 17:37:21 -0800
Organization: http://groups.google.com
Lines: 15
Message-ID: <1165714641.631011.206600@l12g2000cwl.googlegroups.com>
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net>
NNTP-Posting-Host: 64.12.116.10
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165714647 9565 127.0.0.1 (10 Dec 2006 01:37:27 GMT)
```

X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 10 Dec 2006 01:37:27 +0000 (UTC)
In-Reply-To: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.0; Windows NT 5.1; yie6),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 Turboweb [mtc-te074 8.4.1], HTTP/1.1 cache-mtc-aa06.proxy.aol.com[400C740A] (Traffic-Server/6.1.3 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: l12g2000cwl.googlegroups.com; posting-host=64.12.116.10;
   posting-account=0_f6sg0AAADQVyfUJ5pnPSbnHVic07nz
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6656
alt.usenet.kooks:278752 rec.radio.amateur.homebrew:8157
rec.radio.amateur.policy:57349 rec.radio.scanner:8252

Slow Code wrote:
> If they're to lazy to learn CW for good radio skills, they might be too
> lazy to use toilet paper for good hygiene.

unknown sir,unknown.
mork does seem to enjoy the taste of shit smeared on a penis.
hope that helped,
73,
brian

>
> SC

From -856115921496227337
X-Google-Thread: fc2a5,c8c6bcd05157cc02
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post01.iad01!not-for-mail
From: egg <audioh@volumized.it>
Newsgroups: rec.radio.amateur.homebrew
Date: Sat, 9 Dec 2006 20:43:02 -0500
Message-ID: <457b6624$0$11460$9a6e19ea@unlimited.newshosting.com>
References: <457af41f$0$2999$9a6e19ea@unlimited.newshosting.com>
<457b5f5f$0$5713$9b4e6d93@newsspool3.arcor-online.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Subject: Re: anyone know?
User-Agent: Unison/1.7.7
Lines: 13
Organization: Newshosting.com - Highest quality at a great price!

www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8158

On 2006-12-09 19:53:14 -0500, "Henry Kiefer" <otc_friend@gmx.net> said:

> correct it is: Nordmende
> http://de.wikipedia.org/wiki/Nordmende
>
> - Henry

Thanks Henry

cheers

egg

From 5152745827937022637
X-Google-Thread: fc2a5,4ddcaa4fd0d436ff
X-Google-Thread: 107ada,4ddcaa4fd0d436ff
X-Google-Thread: 10bf43,2c4455d409626fd9
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!n67g2000cwd.googlegroups.com!not-for-mail
From: hot-ham-and-cheese@hotmail.com
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: What's REALLY Going to Happen When the Code Test Drops
Date: 9 Dec 2006 17:56:38 -0800
Organization: http://groups.google.com
Lines: 64
Message-ID: <1165715798.001319.223070@n67g2000cwd.googlegroups.com>
References: <ga2n2.uro.17.1@news.alt.net>
   <h3jkm21dmsoreokn216n16cahqb2f62ds3@4ax.com>
   <1164670674.764624.21590@f16g2000cwb.googlegroups.com>
   <t5vmm21c7vctu5p1sgd4u0u7tc0s9l7j62@4ax.com>
   <1164682092.492069.211240@l39g2000cwd.googlegroups.com>
   <1165407544.057957.176440@n67g2000cwd.googlegroups.com>
   <Nfoeh.8470$ql2.7534@newsread3.news.pas.earthlink.net>
   <7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com>
   <v4udneNaF5P2m-bYnZ2dnUVZ_vipnZ2d@comcast.com>
   <1165704886.690348.306000@f1g2000cwa.googlegroups.com>
   <D7ednU4bSI1w2ObYnZ2dnUVZ_o6gnZ2d@comcast.com>
NNTP-Posting-Host: 4.224.228.107
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165715804 12190 127.0.0.1 (10 Dec 2006 01:56:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 10 Dec 2006 01:56:44 +0000 (UTC)
In-Reply-To: <D7ednU4bSI1w2ObYnZ2dnUVZ_o6gnZ2d@comcast.com>

```
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n67g2000cwd.googlegroups.com; posting-host=4.224.228.107;
   posting-account=mMyuWQ0AAAANPpX1wK2NRuuQfAjm_kIo
Xref: g2news2.google.com rec.radio.amateur.homebrew:8159
rec.radio.amateur.misc:26940 rec.radio.amateur.policy:57356


Dee Flint wrote:
> <hot-ham-and-cheese@hotmail.com> wrote in message
> news:1165704886.690348.306000@f1g2000cwa.googlegroups.com...
> >
> > Dee Flint wrote:
> >> "Paul Keinanen" <keinanen@sci.fi> wrote in message
> >> news:7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com...
> >> > On Sat, 09 Dec 2006 01:25:01 GMT, Slow Code <my.mail@no.spam> wrote:
> >> >
> >> >>
> >> >>No, the bands are going to get worse over the long haul.  We got people
> >> >>that don't want to be skilled knowledgable hams.  If they're too lazy
> >> >>to
> >> >>learn CW they are going to be too lazy to learn other things too.
> >> >>Technical discussions will decline.  It will start to sound like CB.
> >> >
> >> > From the European perspective, I do not understand this discussion.
> >> > Most European countries (except Russia) removed the CW requirement
> >> > after a few months of the ITU WRC decision that CW test is not
> >> > required at frequencies below 30 MHz.
> >
> > We have the ARRL wispering in the FCCs ear.
> >
> >> > I haven't observed any problems with persons using the HF bands
> >> > without the CW test.
> >> >
> >> > Listen for yourself, can you tell which European operator has passed
> >> > the CW test and which one has not passed the test.
> >> >
> >> > Paul OH3LWR
> >>
> >> Other countries are not a problem.
> >
> > No country should be a problem.
> >
> >> Personally I do not attempt to predict
> >> what will happen in the US.  However some fear that with easy licensing
> >> and
> >> the lax enforcement here that there could potentially be serious
> >> problems.
> >
> > Riley isn't doing his job?
> >
```

> > I think what I wrote before one of the recent restructurings was, "What
> > I fear most about eliminating the Morse Code Exam is a lack of
> > enforcement, and what I fear most about maintaining the Status Quo is a
> > lack of enforcement."
> >
> > A lack of enforcement is a lack of enforcement, and a Morse Code Exam
> > CANNOT be used as a substitute.
>
> If you recall, I've never been the one to claim it is any type of filter
> etc. I simply think it is one of the basics and for that reason believe a
> basic requirement is suitable.

Dee, you were talking about a lack of enforcement and I was talking
about a lack of enforcement. >We< were talking about a lack of
enforcement...WITH REGARD TO MORSE CODE TESTING. You absolutely were
saying its being used as a filter >in that context<.

You came so, so very close to accepting the truth, then you got scared
and ran away.

```
From -6801031719860136838
X-Google-Thread: fc2a5,4ddcaa4fd0d436ff
X-Google-Thread: 107ada,4ddcaa4fd0d436ff
X-Google-Thread: 10bf43,2c4455d409626fd9
X-Google-Attributes: gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 09 Dec 2006 20:08:25 -0600
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
References: <ga2n2.uro.17.1@news.alt.net>
<h3jkm21dmsoreokn216n16cahqb2f62ds3@4ax.com>
<1164670674.764624.21590@f16g2000cwb.googlegroups.com>
<t5vmm21c7vctu5p1sgd4u0u7tc0s9l7j62@4ax.com>
<1164682092.492069.211240@l39g2000cwd.googlegroups.com>
<1165407544.057957.176440@n67g2000cwd.googlegroups.com>
<Nfoeh.8470$ql2.7534@newsread3.news.pas.earthlink.net>
<7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com>   <v4udneNaF5P2m-
bYnZ2dnUVZ_vipnZ2d@comcast.com>
<1165704886.690348.306000@f1g2000cwa.googlegroups.com>
<D7ednU4bSI1w2ObYnZ2dnUVZ_o6gnZ2d@comcast.com>
<1165715798.001319.223070@n67g2000cwd.googlegroups.com>
Subject: Re: What's REALLY Going to Happen When the Code Test Drops
Date: Sat, 9 Dec 2006 21:08:13 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
```

```
X-RFC2646: Format=Flowed; Original
Message-ID: <d7Kdnd8Z2JeE8ebYnZ2dnUVZ_rCsnZ2d@comcast.com>
Lines: 83
NNTP-Posting-Host: 68.61.216.97
X-Trace: sv3-vFUcGhu5jv7cNIgYrxbvIgOkqNjM94vF5SL/mhGHGEzi8fDQ7TrU1SOy3J6kyTPc/
FIGgEh5GPc/uSg!8eyREdMqwufEPAb18L4NzRf8Uyb5C/E6LvUFPZfZfWHw712McAQH00Yo6mNz/
FpUK7ZCl7Oq8unJ!6o3SDHG9ScoOc8U=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8160
rec.radio.amateur.misc:26945 rec.radio.amateur.policy:57361


<hot-ham-and-cheese@hotmail.com> wrote in message
news:1165715798.001319.223070@n67g2000cwd.googlegroups.com...
>
> Dee Flint wrote:
>> <hot-ham-and-cheese@hotmail.com> wrote in message
>> news:1165704886.690348.306000@f1g2000cwa.googlegroups.com...
>> >
>> > Dee Flint wrote:
>> >> "Paul Keinanen" <keinanen@sci.fi> wrote in message
>> >> news:7amln2lf3g7duag15fqco0r0lm26q6lr10@4ax.com...
>> >> > On Sat, 09 Dec 2006 01:25:01 GMT, Slow Code <my.mail@no.spam> wrote:
>> >> >
>> >> >>
>> >> >>No, the bands are going to get worse over the long haul.  We got
>> >> >>people
>> >> >>that don't want to be skilled knowledgable hams.  If they're too
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>> >> >>to
>> >> >>learn CW they are going to be too lazy to learn other things too.
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>> >> >
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>> >> >
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>> >>
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>> >
>> > No country should be a problem.
>> >
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>> >> licensing
>> >> and
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>> >
>> > Riley isn't doing his job?
>> >
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>> >
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> Dee, you were talking about a lack of enforcement and I was talking
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> enforcement...WITH REGARD TO MORSE CODE TESTING.  You absolutely were
> saying its being used as a filter >in that context<.
>
> You came so, so very close to accepting the truth, then you got scared
> and ran away.
>

Not hardly.  I was discussing the fact that OTHER people consider it a
filter. I have never, ever made any statement to that effect.  I was
discussing OTHER'S opinions and fears for the enlightenment of the ham from
another country who asked why it was such a big deal here.

Just because I chose to discuss the opinions presented by some does NOT mean
I subscribe to those opinions.

Dee, N8UZE




From 4271795295307021760
X-Google-Thread: fc2a5,77a8abd4a534b187
X-Google-Thread: 10bf43,77a8abd4a534b187
X-Google-Thread: 114aac,7da1d4d770f90e92
X-Google-Thread: 1109af,77a8abd4a534b187
```

```
X-Google-Attributes: gidfc2a5,gid10bf43,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.shortwave,rec.radio.
swap
Subject: Re: Call for Action-CW Advocacy organization
Date: Sat, 09 Dec 2006 23:13:07 -0500
Message-ID: <g92nn2l9qmhhcnd7aksb851n0lh8gvvbag@4ax.com>
References: <12ngg4j105cjp01@corp.supernews.com> <telamon_spamshield-
F6A0EB.18540107122006@newsclstr02.news.prodigy.com>
<HTIeh.8314$sf5.2493@newsread4.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 29
NNTP-Posting-Date: 10 Dec 2006 03:18:35 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8161
rec.radio.amateur.policy:57381 rec.radio.shortwave:60879 rec.radio.swap:10587
```

On Sun, 10 Dec 2006 00:52:55 GMT, Maxwell Plonk <Maxwell@plonk.me>
wrote:

```
>Telamon <telamon_spamshield@pacbell.net.is.invalid> wrote in
>news:telamon_spamshield-F6A0EB.18540107122006@newsclstr02.news.prodigy.com:
>
>> In article <12ngg4j105cjp01@corp.supernews.com>,
>>  "FedUP" <fedup@intergate.com> wrote:
>>
>>>      This is not a warm and fuzzy �feel good� letter like much of the
>>> baloney you read in the ham radio press.
>>
>> < Snip >
>>
>> Nobody cares.
>>
>> < Plonk >
>
>
>You don't care because you're a Lazy ass and don't want to be a skilled
>radio hobbiest, but there are a lot of us out here that do care and want
>to be skilled. When you need help with anything your sorry ass is going to
>be calling on us skilled operators for help.
>
skilled operaotr and code using one do increasing seem to un related
thing and total unrelated outseide the ars
>Max
>
http://kb9rqz.blogspot.com/
```

```
--
Posted via a free Usenet account from http://www.teranews.com



From 148676855494199O3
X-Google-Thread: fc8b1,152c6706d63b7f59
X-Google-Thread: fc2a5,152c6706d63b7f59
X-Google-Thread: 10bf43,152c6706d63b7f59
X-Google-Thread: fa029,152c6706d63b7f59
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gidfa029,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.gamma.ru!Gamma.RU!
newsfeed.icl.net!newsfeed.fjserv.net!newsfeed.icl.net!news.maxwell.syr.edu!
nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.scanner
Subject: kookathon
Date: Sat, 09 Dec 2006 23:15:30 -0500
Message-ID: <3e2nn2dmsdp7lekbou703pvu0g7n6t84df@4ax.com>
References: <JTIeh.8316$sf5.5767@newsread4.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 10
NNTP-Posting-Date: 10 Dec 2006 03:20:56 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6658
rec.radio.amateur.homebrew:8162 rec.radio.amateur.policy:57384
rec.radio.scanner:8255

On Sun, 10 Dec 2006 00:52:57 GMT, Slow Code <my.mail@no.spam> wrote:

>If they're to lazy to learn CW for good radio skills, they might be too
>lazy to use toilet paper for good hygiene.

do you have to try and convicne us you are robeson with your fetish
for shit sc?
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From -6840223593920892448
X-Google-Thread: fc2a5,c4c25aab4d213447,start
```

X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f1g2000cwa.googlegroups.com!not-for-mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Antenna in the attic question
Date: 10 Dec 2006 07:42:23 -0800
Organization: http://groups.google.com
Lines: 58
Message-ID: <1165765343.577779.158140@f1g2000cwa.googlegroups.com>
NNTP-Posting-Host: 66.19.112.198
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1165765348 16283 127.0.0.1 (10 Dec 2006 15:42:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 10 Dec 2006 15:42:28 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98; DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f1g2000cwa.googlegroups.com; posting-host=66.19.112.198;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:8163

Andy writes:

I would like to hear some discussion/advice on the feasibility of putting
an antenna for, say, 30m in the attic versus on top of the roof...

Here is the situation :
The roof peak of my house is about 50 feet and is straight. Given the
need for a dipole which is 44 feet wide, it can be mounted in either of two
places:

1) Just above the roof peak, straight along it, about 1 foot above.

2) Just below the roof peak,inside the attic, about 1 foot below .

Let's assume there are no other options...

So it sort of boils down to whether the wood and asphalt barrier , free
of metal except for an occasional nail, actually attenuates the signal enough
to bother about, or affects the antenna impedance enough to bother about.....

Having made dozens of ham antennae over the last 40 years in

configurations
that probably violate the laws of physics and having had them work, I,
personally,
haven't found that such a difference in the antenna placement makes a
hill
of beans worth of REAL difference (no pun). But a lot of guys here
have been
doing this for 40 years also, and I'd really like to see what anyone
has to say
about it.....

I generally use one rule of thumb on antennae:

" If when I connect the antenna to the receiver, the background
noise
of the receiver increases, the antenna is doing a good job".....

Yeah, I know, but it needs some thinking about because if the cosmic
noise
level picked up by the antenna is higher than the receiver noise level,
then
it has to be working........assuming it is cut to the proper frequency
for the
band used.....

So, what about it ? Anybody want to put in their two cents worth ?

Andy   W4OAH

From 6260477586422616795
X-Google-Thread: fc2a5,3e3738bde58ff392,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!wn12feed!worldnet.att.net!
bgtnsc04-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: MILITARY SURPLUS-VAR POTS
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <Uzhbh.387685$QZ1.94361@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: 328a396180a802d7e6f2333164829ae7
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1164813684
328a396180a802d7e6f2333164829ae7 (Wed, 29 Nov 2006 15:21:24 GMT)

NNTP-Posting-Date: Wed, 29 Nov 2006 15:21:24 GMT
Organization: AT&T Worldnet
Date: Wed, 29 Nov 2006 15:21:24 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8014

I have about 300 NOS from military surplus at 100K ohms, 3" shafts by CRL: body at 1.375" dia from the 1940's. I have opened and checked several of them and they all tested as marked. NO stains or rust- most are still in sealed packing. Wt is 2.5 oz sealed or 1.1 oz unpacked. Stock up while they are available. 1-10 ea $0.50 ea, 11-20 at $0.35 ea, 21- at $0.25 each. No 'handling' charges- you pay exact shipping only.

I also have some 1 meg with on-off switch and a few 5K coming soon.

Offered here before going to you-know-where.
Pse check my rating on Ebay for seller: heytubeguy

take a look at some of my other stuff while you are there: tnx

---

From -1901648729352960402
X-Google-Thread: fc2a5,dce5a1d71199121e,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!feed.xsnews.nl!feeder.xsnews.nl!border1.nntp.ams.giganews.com!nntp.giganews.com!sn-xt-ams-06!sn-xt-ams-05!sn-ams!sn-feed-ams-03!sn-post-ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Grounding crystal cases
Date: Wed, 29 Nov 2006 16:22:51 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12ms92ses02ofa0@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-Complaints-To: abuse@supernews.com
Lines: 10
Xref: g2news2.google.com rec.radio.amateur.homebrew:8015

Anyone have an opinion on whether or not crystal cases (e.g., HC49, HC45, etc.) ought to be grounded or not? I've done some Googling, and I've found various cases where people recommend it (albeit without much explanation as to what they think will change when they do it) and no cases where it was specifically not recommended.

Thanks,
---Joel

```
From -4209758900063114783
X-Google-Thread: fc2a5,dce5a1d71199121e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe02.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <12ms92ses02ofa0@corp.supernews.com>
Subject: Re: Grounding crystal cases
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <SApbh.75$0h4.69@newsfe02.lga>
X-Trace:
nphhjmdkmllhpdkekannfilpcpbbolnmiedknghbmopmdbafnicfceledepkikoolhlefpnpglhfdcnhep
dhapdaglgddmgdejpkaddlfoepjfjnfeafafneeebpcbfdbpincjkllopekodc
NNTP-Posting-Date: Wed, 29 Nov 2006 17:28:34 MST
Date: Wed, 29 Nov 2006 19:28:10 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8016
```

Most of the time when I've seen crystal cases grounded it has been in crystal filters, where it is supposed to help with feedthru.

..

"Joel Kolstad" <JKolstad71HatesSpam@yahoo.com> wrote in message news:12ms92ses02ofa0@corp.supernews.com...

> Anyone have an opinion on whether or not crystal cases (e.g., HC49, HC45, etc.) ought to be grounded or not? I've done some Googling, and I've found various cases where people recommend it (albeit without much explanation as to what they think will change when they do it) and no cases where it was specifically not recommended.
>
> Thanks,
> ---Joel
>
>

```
From 948834644621732325
X-Google-Thread: fc2a5,dce5a1d71199121e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!news3.google.com!news.glorb.com!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Grounding crystal cases
Date: 30 Nov 2006 00:58:33 GMT
Organization: The National Capital FreeNet
Lines: 35
Message-ID: <eklabp$70c$1@theodyn.ncf.ca>
References: <12ms92ses02ofa0@corp.supernews.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1164848313 7180 134.117.136.48 (30 Nov 2006 00:58:33 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 30 Nov 2006 00:58:33 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8017

"Joel Kolstad" (JKolstad71HatesSpam@yahoo.com) writes:

> Anyone have an opinion on whether or not crystal cases (e.g., HC49, HC45, etc.) ought to be grounded or not? I've done some Googling, and I've found various cases where people recommend it (albeit without much explanation as to what they think will change when they do it) and no cases where it was specifically not recommended.
>

I don't know. FT-243 crystal sockets had no means of grounding the crystal case, which likely wouldn't have mattered since except for the metal access side, they were bakelite. But it was pretty common to see a grounding "spring" on HC6 crystal holders, at least those had metal cases. ANd it seems more common to see metal cased crystals on circuit boards grounded than not grounded.

Now, perhaps those springs on the old HC6 sockets were there more to hold the crystal in place. But I always assumed that by grounding them you'd stabilize the capacitance of the case to the rest of the crystal. If you just leave the case ungrounded, then external things can affect that capacitance.

Obviously the case affects the tuning of the crystal. I remember one guy writing in CQ forty years ago where he'd open up HC6 crystals so he could grind them on frequency, and he made the point that he couldn't measure the new frequency accurately unless the case was back on at least partially. Given that, if you ground the case you put things at a known level.

If nothing else, grounding the case adds mechanical stability. WIth that in mind, is there some reason you can come up with why you shouldn't ground the case (trying to figure that out might help to figure out whether they should be grounded).

Michael VE2BVW

```
From 6149735076578707075
X-Google-Thread: 1159c6,ce1849f065a77a42
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: 107cee,ce1849f065a77a42
X-Google-Thread: f849b,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: fcc6e,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
X-Google-Attributes:
gid1159c6,gid112d1e,gid107cee,gidf849b,gidfc2a5,gidfcc6e,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.gamma.ru!Gamma.RU!
newsfeed.news2me.com!newspump.sol.net!198.186.194.250.MISMATCH!
transit3.readnews.com!news-out.readnews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 29 Nov 2006 19:24:09 -0600
Date: Wed, 29 Nov 2006 17:24:13 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
alt.binaries.schematics.electronic,sci.electronics.cad,sci.electronics.design,sci.
electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.a
ntenna,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com>
In-Reply-To: <3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <OImdnR8FQIknr_PYnZ2dnUVZ_sidnZ2d@web-ster.com>
Lines: 25
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-j5nT4l4zLfMWRe7HgHG09wErYzC/WpPGqxnv2/
d1DAIomu1z6k0TSDH9sz7yAbow5tJ6lC7RiOaoGJE!
Wd4I2Ks0uwqmZh5gXpO77SkOBtaUXAs46MYhP8FR6m325ha6L0YDugF6/HZftyTynWeT30pECMdU!
IhmvKZEULmUBczNA
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com sci.electronics.cad:3811 sci.electronics.design:129113
sci.electronics.misc:8252 comp.arch.embedded:26324 rec.radio.amateur.homebrew:8018
rec.radio.amateur.antenna:22130 sci.electronics.repair:36382
```

maxfoo wrote:

> GAWD, These kids nowadays have it made!

> Check out this kewl hotwheels radar gun on sale for $20.00 at Walmart.
> I wonder if it's accurate though, I might just pick one up and
> dissect it!!
> Anyone already get one of these, is it accurate? TIA
>
> http://www.walmart.com/catalog/product.do?product_id=4661205
>
>
>

So, can you bend it down a few hundred megahertz into the amateur 10GHz band? Without spending more than you would for a Gunnplexer?

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

---

From -5877822748354768375
X-Google-Thread: fcc6e,28966154715bb8e0
X-Google-Thread: fc2a5,5ea17aeb391094e4
X-Google-Thread: 10bf43,28966154715bb8e0
X-Google-Thread: 1109af,28966154715bb8e0
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone.austin.rr.com!news.rr.com!tornado.texas.rr.com.POSTED!53ab2750!not-for-mail
From: "U-Know-Who" <no-one@nowhere.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
References: <ODu5h.5284$0r.5279@newsread1.news.pas.earthlink.net>
<ej6cua$2naq$1@news.ndhu.edu.tw> <ej8knc$kn5$1@news.hawaii.edu>
<1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net>
<5lO7h.283$_H5.256@tornado.texas.rr.com>
<u7s8h.1376$tM1.1345@newsread1.news.pas.earthlink.net>
<oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com>
<Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net>
<Jo89h.2462$Gk5.1576@tornado.texas.rr.com>
<E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net>
<Svs9h.2203$_H5.295@tornado.texas.rr.com>
<fjLah.4143$tM1.1155@newsread1.news.pas.earthlink.net>
Subject: Re: Group poll.
Lines: 217
X-Priority: 3
X-MSMail-Priority: Normal

```
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <Klrbh.5898$_H5.4204@tornado.texas.rr.com>
Date: Thu, 30 Nov 2006 02:28:58 GMT
NNTP-Posting-Host: 67.10.92.242
X-Complaints-To: abuse@rr.com
X-Trace: tornado.texas.rr.com 1164853738 67.10.92.242 (Wed, 29 Nov 2006 20:28:58
CST)
NNTP-Posting-Date: Wed, 29 Nov 2006 20:28:58 CST
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.antenna:22144
rec.radio.amateur.homebrew:8019 rec.radio.amateur.policy:56027
rec.radio.swap:10334


"Slow Code" <my.mail@no.spam> wrote in message
news:fjLah.4143$tM1.1155@newsread1.news.pas.earthlink.net...
> "U-Know-Who" <no-one@nowhere.com> wrote in
> news:Svs9h.2203$_H5.295@tornado.texas.rr.com:
>
>>
>> "Slow Code" <my.mail@no.spam> wrote in message
>> news:E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net...
>>> "U-Know-Who" <no-one@nowhere.com> wrote in
>>> news:Jo89h.2462$Gk5.1576@tornado.texas.rr.com:
>>>
>>>>
>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>> news:Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net...
>>>>> Joe Bloe <abaslon@comcast.net> wrote in
>>>>> news:oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com:
>>>>>
>>>>>> On Tue, 21 Nov 2006 00:54:50 GMT, Slow Code <my.mail@no.spam> wrote:
>>>>>>
>>>>>>>"U-Know-Who" <no-one@nowhere.com> wrote in
>>>>>>>news:5lO7h.283$_H5.256@tornado.texas.rr.com:
>>>>>>>
>>>>>>>>
>>>>>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>>>>>> news:1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net...
>>>>>>>>> jeffreyh@Hawaii.Edu (Jeffrey Herman) wrote in
>>>>>>>>> news:ej8knc$kn5$1@news.hawaii.edu:
>>>>>>>>>
>>>>>>>>>> John Smith  <assemblywizard@gmail.com> wrote:
>>>>>>>>>>>Idiot, check your spelling, it's "group troll."
>>>>>>>>>>
>>>>>>>>>> Well, let's see if he ment "poll" or "troll":
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>         0  2  4  6  8  10
>>>>>>>>>>                        /
>>>>>>>>>>                       /
```

```
>>>>>>>>>>                      /
>>>>>>>>>>                     /
>>>>>>>>>>                    /
>>>>>>>>>>                   /
>>>>>>>>>>                  /
>>>>>>>>>>                 /
>>>>>>>>>>           POLL-O-METER
>>>>>>>>>
>>>>>>>>>
>>>>>>>>>
>>>>>>>>> So what appliances does everyone hope Santa brings them for Xmas?
>>>>>>>>>
>>>>>>>>> HF, VHF, UHF, KENWOOD, YAESU, ICOM, Cobra?
>>>>>>>>>
>>>>>>>>>
>>>>>>>>> I couldn't think of anything for myself, so I hope I just get a
>>>>>>>>> some componants and a new soldering iron for projects so I can
>>>>>>>>> keep moving forward in ham radio.
>>>>>>>>>
>>>>>>>>> SC
>>>>>>>>
>>>>>>>> And spell check for your PC. :-)
>>>>>>>
>>>>>>>
>>>>>>>Which one do you have?  I want Santa to bring me a different one.
>>>>>>>The one you have doesn't work.
>>>>>>>
>>>>>>>SC
>>>>>>
>>>>>>
>>>>>>   Clip and paste to "Word for Windows". . .  It's got the best spell
>>>>>> checker in the market.  Just leave it running in the backgrould and
>>>>>> call it up when you need to type out a letter or two.
>>>>>
>>>>>
>>>>> Thanks,  I'll pass that on to U-Know-Who, but he probably don't have
>>>>> word, just computer games.
>>>>>
>>>>> SC
>>>>
>>>> I have Office Pro 2003
>>>
>>>
>>> WOW
>>>
>>> SC
>>
>> I ran your posts through it. It said to please excuse the idiot in
>> Colorado who can't afford a high-speed connection.
>
>
> Your CB radio not back from the repair shop so you got to attack real
> radio operators?   I knew you went for those "easy-to-burn-up' Cobra and
```

> Galaxy brand appliances.
>
> Oh, and I don't live in colorado, I'm ya alls next door neighbor.
>
> Howdy Neighbor. Heee Heee Heeeeeeee!
> SC

```
IP Information 4.230.12.15
      Record Type: IP Address
      Cached Whois: Cached today
      IP Location:  United States - Texas - Houston - Level 3 Communications
Inc
      Reverse DNS: dialup-4.230.12.15.Dial1.Houston1.Level3.net
      Blacklist Status: Currently Listed (history)

Whois Record

OrgName:  Level 3 Communications, Inc.
OrgID:   LVLT
Address:  1025 Eldorado Blvd.
City:    Broomfield
StateProv: CO
PostalCode: 80021
Country:  US

NetRange:  4.0.0.0 - 4.255.255.255
CIDR:    4.0.0.0/8
NetName:  LVLT-ORG-4-8
NetHandle: NET-4-0-0-0-1
Parent:
NetType:  Direct Allocation
NameServer: NS1.LEVEL3.NET
NameServer: NS2.LEVEL3.NET
Comment:
RegDate:
Updated:  2004-06-04

OrgAbuseHandle: APL8-ARIN
OrgAbuseName:  Abuse POC LVLT
OrgAbusePhone: +1-877-453-8353
OrgAbuseEmail:

OrgTechHandle: ARINC4-ARIN
OrgTechName:  ARIN Contact
OrgTechPhone: +1-800-436-8489
OrgTechEmail:

OrgTechHandle: TPL1-ARIN
OrgTechName:  Tech POC LVLT
OrgTechPhone: +1-877-453-8353
OrgTechEmail:
```

Better?

~~~
begin 666 us.gif
M1TE&.#EA$@`,`/<```````/___\%A8\9G:,5K;<]R=-R!@].!@K!L;>J1D\9]
M?M:,C?.@H?.CI,--4KY:7L!B9:YA9.Z*C=%Z?M:!A.B:G+I)4+M25[U46;91
M6,9=8L%@9=)L<:)77.!\@;EJ;NZ3F.:.D\)S>;=H<+V"B-*GKEQ3J2<>A#$H
MBEU6JF)=G"8B8TM&GW=RP8N&S1T:6#8RE5-/F61AMV]LOH!]S8%^R8F&T!03
M5QH86" ?:3(P=#8U?4I)IT9%D%M:IVQKP7-RO7]^SST]AG%RR&9GHW%ZN*6L
MWZBOX&!KKHR5R\MH8LQH8\QN:-: >^N;EL>#@?NPK<,S,\4V-L@[.LT_/]A.
M3LE-3,M14>9?7]5=7?)P<,]B8N)M;?=[>_)Z>MAP<.]_?\UO;^: @-MZ>OB,
MC.V)B=9[>\MV=?B0D,-R<<YY>?*0D-!]?>.+B_>:F?*7E[MU==V,C+MW=\>
M?_";F]2+BL6"@NJ=G/BFILR)B<6%A,.#@^F=G>B=G<R+B_2GI\2'ALR-C?6J
MJM:5E=^<G/BPL.^JJM>;FN.DI,R5E,>1D<:1D:!U=<J5E:Q_?_&SL^6JJM"<
MF\22DKB)B=.>GLV<F_*YN/B]O>BQL?6]O.*OKM^LK/; P/&\O.R[N_?(Q_K+
MR____P``````````````````````````````````````````````````````
M````````````````````````````````````````````````````````````
M````````````````````````````````````````````````````````````
M````````````````````````````````````````````````````````````
M````````````````````````````````````````````````````````````
M````````````````````````````````````````````````````````````
M`````````````````````"'Y! $``*$`+ `````2``P```C+``$('$BP(,$7
M.'2HL-&B1"1%BQI1VN3I$RB!-W+TJ#'$A(,I4:10J8)%2Q<O`E<(`>)"!@L2
M3^SD&83HT:5,F 3N\!%D!@\4%JQ<R<(%#!DT9<8(C$'C1PH8)T:<81/GCJ!"
MA@CY$7C$2)(B2(@\V/)%S!HW;]JH22,0BI,F3)0L"6.F#1T\?_K4F2-'()\#
M!" (&%# 0 (&#2HL4 `'@< )&RYDP*"!@P<)($)0$/$A0@>!B0#MT1/H$"1+
0G#IIJB1IDB-&!F,;# @`.P``
`
end

begin 666 email.pgif?md5=31fb0db8720a7a479ee0d18335a181c6
MB5!.1PT*&@H````-24A$4@```'D````1! ,````+<QY-````&%!,5$7___\`
M``!?7U]_?W_?W]^?GY^_O[\_/S^<LI3:```!%TE$051XG.V1P6Z#, R&?T$(
MKX%H5:Z1&-T5J89S- AG:P/.G/;\L]-V&I.J[3IIEJ78_OTY5@+\;<MVF0EA
M1-B5%H8-_@&=M%\S>ZA/YGG7,'AT]?EWM,<9R7XYCZ=OI3M:NJ0\X(@<+Q5L
MN5FWG21!7G(.*Z)3&EH2>ZU@JLU4GS=>9&HALS,&)B2]UP2FP)+((@4ND7YS
M<0O&<4%*KIBN6X60`FY$BF40;PS7FF!HIA3&-R' REPM(48],O)NCO1,G;RY
M]_+RAG@E,DRM?L-(K88CD3)\_1F-(NWO=)\1,5&O- DR"]VU(J@(S?H9JB?O
MTJ(]!+[1=EW%859&'P^S2BANUQ86\;CI0FN/BLSS@P_\MQ_L`P%C/,K8F3;!
,`````$E%3D2N0F""
`
end

begin 666 email.pgif?md5=3d7c97f9400f246e36c866d08b142fe5
MB5!.1PT*&@H````-24A$4@```+(````3! ,```#&Y$H0````&%!,5$7___\`
M``!?7U]_?W_?W]^?GY^_O[\_/S^<LI3:```!B4E$051XG.V33V_;, S%'V1)
M_AJ&8M17`^G:JY#*/@O=DC,Q.#H'189]]_3TJV8:V;K==AQ(*Q/"1/_VA#'S8
M?V/S6M#]=A?@N--^^_3/A2Q_MV7 NV\9=+Z'9[OT+N_T1>-?.,? >SDO,FV831
M3!NX#9HPPXHFXOT8,=J!T81P&7W3(NP0=Mn0mBMdU2BCRcqpWAdasOorScNJhG|FSTbBxhtsDsv7R(o6jLwRx&7ux$WT9xU7k2JMh7\GOV3G'B'#@s$k6K'Cg1
M<8 /)Q_:*_L!M^AX&TXXW7^CUZ01!P.?ZQ[MV'&S!^#P8)C37_4==5;JZ"Z'
M4< !9L[=;?W+MF@3)KB($=6#S5@:>&GT&O99PX67.FV]($^?/R7JCKI69K"L
MJ:BH:<[*6+NZI$G[SK?AHV95[U)IQ6'V*>4,SQQ9;%+RG))]1I9\>40$2"7G
M*WFV2X2=XT]R2DE_)$=B.80YJ%.R7"<E$K!0B';1]*B[:\^@*(DXR5(7*L47
~~~

```
MDHOHDO7BBS#*;=H(*H4*([;0*YCI<I",LD KO4Y'F#-/6Y1C1>2O7MY+RVM!
DMQ;\-_.O/D,-\A0?]H[]`#Q(59S3NQCU`````$E%3D2N0F""
`
end

begin 666 email.pgif?md5=8ecfbf2a78e928d27cd9055f00d72b6c
MB5!.1PT*&@H````-24A$4@```*D````3! ,````9JC /````&%!,5$7___\`
M``"_O[_?W]^?GY]?7U]_?W\_/S\:VQM!```!=TE$051XG.V2RT[#,!!%KVPG
M_0W+!M:C.G1M4=-U!(1N+1Y99X/Z^UR;`"TJ0ETBL.1Z[#,^F70"_(_?-?Q>
M' $CWW&54M3I@"6!2?:8]6HOGH#FJ_6#M^,XJ><#]BRX&-<_U=T?L7Z,UI)?
M'AX)CU9'<IL;/O(>9NAQO9W4\++,.V!WB\5@\7)7>#,4OFU=GHKU<H<+/J+P
M6L)Y]5P/S)G,_>+]#9NW(@UKX496>%S!^'+TR1_1M#[WC%5\XQFIU(I-?*_Z
MH3CZOEH]6B"KM&&?LH-!!W1CDO9)\,0_=5TY?TW89,8ZC>N.3=T0UM9VQ5(B
MYBB;\VPU;+X/G1+$8N6V"P&:,P0[\PBC)+#ET#Z(MA[KNH.=K8Q\R8FU=.W%
M\'(('361"Y9"H\Q6*9Q6`L4=.BGG\(*R,-5S74PEFXZEGJW*B7(.FG/I+!?M
M+,!)`.<K9QW:G3'-Z@IX"WN\6'F9#JO%VODS,#]]<"=DG9:O7#S1^I?'*YO,
20CJX!P"P`````$E%3D2N0F""
`
end
```

```
From 1555170410511092992
X-Google-Thread: fc2a5,9c1cfc4806e7e1cf
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 29 Nov 2006 22:04:02 -0600
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1164724954.578824.323140@h54g2000cwb.googlegroups.com>
<Q_ebh.12214$XH4.6536@newsfe14.lga>
Subject: Re: Kenwood TS430S Repair
Date: Wed, 29 Nov 2006 22:03:59 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <_4edneS1pNuvxfPYnZ2dnUVZ_qOdnZ2d@comcast.com>
Lines: 23
NNTP-Posting-Host: 67.176.141.93
X-Trace: sv3-
ToSf6pYVeZ5WJKjjVKr7TjQcjOG47D6zuqJR0UHURCeQiWWX+qoRVTiNpZSkG6pkIfO9zPraj4C7qTe!
E9HRRWIXjdWYD9T+Vb6T0kdS3iuD++fxcW1KCLqrFmZmLKyRFdBp8FoZJj9sCN/vENgnNFiCjiTt!
cLR1BJfVqrNzmOT40Yw=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8020

"Sam Morgan" <ka5oai@cox.net> wrote in message
news:Q_ebh.12214$XH4.6536@newsfe14.lga...
> tladotse wrote:
>> I have a 430 and there is no power output. Receiver works fine. Don't
>> know if it is the finals or the power management circuit. I have used
>> the rig for several years and many hours of use. I was using Groton
>> Electronics for repair but they went out of business. Does anyone know
>> of a reliable place that will work on the Kenwood 430s.
>> Thanks
>>
> B&B Technical Services fixed mine.
> http://www.amateur-repairs.com/FULL_MONTE_TS-430.htm
> Good service, did take some time, about 3 weeks, but the results were
> worth the wait.
>
> Usual disclaimer, not connected, just a satisfied customer.

Bill Leahy, K0ZL, who is owner and chief bench tech -
is also the moderator for the TS-430 and TS-440 Yahoo groups.

w9gb

From 9010959850816761821
X-Google-Thread: fc2a5,319d1e3bd4ca7686,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone.austin.rr.com!news.rr.com!
tornado.texas.rr.com.POSTED!53ab2750!not-for-mail
From: "DJboutit" <Recordking@Hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Texas CB Forum
Lines: 4
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <%Jvbh.10317$Gk5.6611@tornado.texas.rr.com>
Date: Thu, 30 Nov 2006 07:27:55 GMT
NNTP-Posting-Host: 72.181.189.162
X-Complaints-To: abuse@rr.com
X-Trace: tornado.texas.rr.com 1164871675 72.181.189.162 (Thu, 30 Nov 2006 01:27:55
CST)
NNTP-Posting-Date: Thu, 30 Nov 2006 01:27:55 CST
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8021

For anybody in Texas to come & chat about this great hobby CB Radio & to meet others from Texas into CB www.texascbforum.co.nr

```
From 6887695298944576568
X-Google-Thread: fc2a5,113bc567f7c3e893,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.newsgroupbanter.com!
news.newsgroupbanter.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 30 Nov 2006 02:06:10 -0600
From: Iitoi <Iitoi.2i2tpo@news.radiobanter.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Radio designer software
Date: Thu, 30 Nov 2006 03:30:00 +0000
Message-ID: <Iitoi.2i2tpo@news.radiobanter.com>
Organization: RadioBanter.com
User-Agent: vBulletin USENET gateway
X-Newsreader: vBulletin USENET gateway
Lines: 8
NNTP-Posting-Host: 82.165.39.56
X-Trace: sv3-
VdpbCHYJcaakP4FucaX1k1L0Of8t8f6jQOvy3pKD8YXsGiB7Gkhz7YwjyqDq3H2RnKogzJB80C2JruP!
dlnkT51+mpWDmbsDK7D7mDrnRggs3O47UAlu5YhbC6N3BkgGutXzo0zBAX+QQhrHaOAV+bQ5m2TA!/
RoprHo=
X-Complaints-To: abuse@newsgroupbanter.com
X-DMCA-Complaints-To: abuse@newsgroupbanter.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8022
```

I have a copy of the old ARRL "Radio Designer" software, but it does not run on modern OS's, and ARRL has not renewed their agreement with the author.

Can anyone recommend a similarly capable software package which will run on an XP platform. Need not be freeware, but also cannot afford a professional 'commercial' package.

Suggestions?

The Man in the Maze
QRL at Baboquivari Peak, AZ

--
Iitoi

From -2977862915607922908
X-Google-Thread: fc2a5,113bc567f7c3e893
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: "William E. Sabin" <w.sabin@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <Iitoi.2i2tpo@news.radiobanter.com>
Subject: Re: Radio designer software
Lines: 30
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <Q0xbh.1081357$084.226667@attbi_s22>
NNTP-Posting-Host: 12.217.178.216
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1164876976 12.217.178.216 (Thu, 30 Nov 2006 08:56:16 GMT)
NNTP-Posting-Date: Thu, 30 Nov 2006 08:56:16 GMT
Organization: AT&T ASP.att.net
Date: Thu, 30 Nov 2006 08:56:16 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8023

I have the Windows XP on a 2004 Dell computer, and the Radio Designer program works perfectly. I have been using that program ever since it came out, no problem. Your difficulty can probably be fixed by the right technician.

Bill W0IYH

"Iitoi" <Iitoi.2i2tpo@news.radiobanter.com> wrote in message
news:Iitoi.2i2tpo@news.radiobanter.com...
>
> I have a copy of the old ARRL "Radio Designer" software, but it does not
> run on modern OS's, and ARRL has not renewed their agreement with the
> author.
>
> Can anyone recommend a similarly capable software package which will
> run on an XP platform. Need not be freeware, but also cannot afford a
> professional 'commercial' package.
>
> Suggestions?
>
> The Man in the Maze
> QRL at Baboquivari Peak, AZ
>

>
>
>
> --
> Iitoi

From 2626076560240808192
X-Google-Thread: fc2a5,113bc567f7c3e893
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!
trndny01.POSTED!0da99462!not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <Iitoi.2i2tpo@news.radiobanter.com>
<Q0xbh.1081357$084.226667@attbi_s22>
Subject: Re: Radio designer software
Lines: 42
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <Ijybh.12800$ki3.9856@trndny01>
Date: Thu, 30 Nov 2006 10:24:40 GMT
NNTP-Posting-Host: 70.16.129.225
X-Complaints-To: abuse@verizon.net
X-Trace: trndny01 1164882280 70.16.129.225 (Thu, 30 Nov 2006 05:24:40 EST)
NNTP-Posting-Date: Thu, 30 Nov 2006 05:24:40 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8024

I also have ARRL Designer running fine under Windows XP, on an HP Pavillion computer. However, I have had problems in the past with compatibility with certain video cards, especially under Win98.

Joe
W3JDR

"William E. Sabin" <w.sabin@mchsi.com> wrote in message
news:Q0xbh.1081357$084.226667@attbi_s22...
>I have the Windows XP on a 2004 Dell computer, and the Radio Designer
>program works perfectly. I have been using that program ever since it came
>out, no problem. Your difficulty can probably be fixed by the right
>technician.
>
> Bill W0IYH

```
>
> "Iitoi" <Iitoi.2i2tpo@news.radiobanter.com> wrote in message
> news:Iitoi.2i2tpo@news.radiobanter.com...
>>
>> I have a copy of the old ARRL "Radio Designer" software, but it does not
>> run on modern OS's, and ARRL has not renewed their agreement with the
>> author.
>>
>> Can anyone recommend a similarly capable software package which will
>> run on an XP platform.  Need not be freeware, but also cannot afford a
>> professional 'commercial' package.
>>
>> Suggestions?
>>
>> The Man in the Maze
>> QRL at Baboquivari Peak, AZ
>>
>>
>>
>>
>> --
>> Iitoi
>
>
```

```
From -6570565650735426169
X-Google-Thread: fc2a5,113bc567f7c3e893
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-
mail
From: "William E. Sabin" <w.sabin@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <Iitoi.2i2tpo@news.radiobanter.com>
<Q0xbh.1081357$084.226667@attbi_s22> <Ijybh.12800$ki3.9856@trndny01>
Subject: Re: Radio designer software
Lines: 51
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <69Abh.1081494$084.483735@attbi_s22>
NNTP-Posting-Host: 12.217.178.216
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1164889794 12.217.178.216 (Thu, 30 Nov 2006 12:29:54 GMT)
NNTP-Posting-Date: Thu, 30 Nov 2006 12:29:54 GMT
Organization: AT&T ASP.att.net
Date: Thu, 30 Nov 2006 12:29:54 GMT
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:8025

I also graduated from Win 98 Dell and had no trouble. I am sure the problem
can be resolved, although I am not the right person to do it.

Bill W0IYH

"W3JDR" <joe@roccis.com> wrote in message
news:Ijybh.12800$ki3.9856@trndny01...
>I also have ARRL Designer running fine under Windows XP, on an HP Pavillion
>computer. However, I have had problems in the past with compatibility with
>certain video cards, especially under Win98.
>
> Joe
> W3JDR
>
>
> "William E. Sabin" <w.sabin@mchsi.com> wrote in message
> news:Q0xbh.1081357$084.226667@attbi_s22...
>>I have the Windows XP on a 2004 Dell computer, and the Radio Designer
>>program works perfectly. I have been using that program ever since it came
>>out, no problem. Your difficulty can probably be fixed by the right
>>technician.
>>
>> Bill W0IYH
>>
>> "Iitoi" <Iitoi.2i2tpo@news.radiobanter.com> wrote in message
>> news:Iitoi.2i2tpo@news.radiobanter.com...
>>>
>>> I have a copy of the old ARRL "Radio Designer" software, but it does not
>>> run on modern OS's, and ARRL has not renewed their agreement with the
>>> author.
>>>
>>> Can anyone recommend a similarly capable software package which will
>>> run on an XP platform. Need not be freeware, but also cannot afford a
>>> professional 'commercial' package.
>>>
>>> Suggestions?
>>>
>>> The Man in the Maze
>>> QRL at Baboquivari Peak, AZ
>>>
>>>
>>>
>>>
>>> --
>>> Iitoi
>>
>>
>
>

From 9188716647806731222
X-Google-Thread: fc2a5,dce5a1d71199121e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!80g2000cwy.googlegroups.com!not-for-mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Grounding crystal cases
Date: 30 Nov 2006 04:53:33 -0800
Organization: http://groups.google.com
Lines: 18
Message-ID: <1164891213.101071.288580@80g2000cwy.googlegroups.com>
References: <12ms92ses02ofa0@corp.supernews.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164891218 24918 127.0.0.1 (30 Nov 2006 12:53:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 30 Nov 2006 12:53:38 +0000 (UTC)
In-Reply-To: <12ms92ses02ofa0@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 80g2000cwy.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news2.google.com rec.radio.amateur.homebrew:8026

Joel Kolstad wrote:
> Anyone have an opinion on whether or not crystal cases (e.g., HC49, HC45,
> etc.) ought to be grounded or not? I've done some Googling, and I've found
> various cases where people recommend it (albeit without much explanation as to
> what they think will change when they do it) and no cases where it was
> specifically not recommended.

For most solid-state oscillators it makes sense to ground.

For tube oscillators where the two pins to the crystal could be at high potential, it is probably better to not ground. In some Pierce or Modified Pierce oscillators you find either plate or screen potential; nominally this is supposed to be blocked by a ceramic capacitor (e.g. 0.001uF) in most designs but you'd be surprised how often this was left out!

Tim.

From -3561367119088068399
X-Google-Thread: fc2a5,db04176fa60b9518,start

```
X-Google-Thread: 112d1e,db04176fa60b9518,start
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!80g2000cwy.googlegroups.com!not-for-
mail
From: skavanagh72nospam@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Free PC Oscilloscope Software Preferences ?
Date: 30 Nov 2006 07:54:19 -0800
Organization: http://groups.google.com
Lines: 10
Message-ID: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 199.243.50.141
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1164902065 18734 127.0.0.1 (30 Nov 2006 15:54:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 30 Nov 2006 15:54:25 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 80g2000cwy.googlegroups.com; posting-host=199.243.50.141;
   posting-account=0Ys2Eg0AAADOQYhHmHwRZ2EGbJYic2GH
Xref: g2news2.google.com rec.radio.amateur.homebrew:8027
sci.electronics.design:129258
```

I am looking for a free oscilloscope program for the PC to run under Windows XP.   Does anyone have any preferences ? It needs to be quasi-real....not just a toy, but it can be very simple. I have no need for spectrum analysis and single trace would suffice, but I do need a calibrated timebase, for example. So far what I have found does not meet my needs (time axis won't run slow enough, uncalibrated timebase, doesn't quite work properly on my computer....etc.).

Steve

```
From -6384347463814728891
X-Google-Thread: fc2a5,db04176fa60b9518
X-Google-Thread: 112d1e,db04176fa60b9518
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h54g2000cwb.googlegroups.com!not-for-
mail
From: "psdayama" <psdayama@gmail.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Free PC Oscilloscope Software Preferences ?
Date: 30 Nov 2006 08:03:19 -0800
Organization: http://groups.google.com
Lines: 16
Message-ID: <1164902599.181722.219350@h54g2000cwb.googlegroups.com>
```

```
References: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 59.95.20.30
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164902605 20167 127.0.0.1 (30 Nov 2006 16:03:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 30 Nov 2006 16:03:25 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
{EF544EF0-14C4-F27D-2699-91FC18DAFC08}; SV1; FDM),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h54g2000cwb.googlegroups.com; posting-host=59.95.20.30;
   posting-account=0zCF3A0AAAAfKJNeUKyD7z_gTPW1hoNJ
Xref: g2news2.google.com rec.radio.amateur.homebrew:8028
sci.electronics.design:129265
```

skavanagh72nospam@yahoo.ca wrote:

> I am looking for a free oscilloscope program for the PC to run under
> Windows XP.   Does anyone have any preferences ? It needs to be
> quasi-real....not just a toy, but it can be very simple. I have no
> need for spectrum analysis and single trace would suffice, but I do
> need a calibrated timebase, for example. So far what I have found does
> not meet my needs (time axis won't run slow enough, uncalibrated
> timebase, doesn't quite work properly on my computer....etc.).
>
> Steve

What is bandwidth required? There is good 'winscope' available free
for
frequencies upto 20Khz.

```
From 6878788155791629281
X-Google-Thread: fc2a5,db04176fa60b9518
X-Google-Thread: 112d1e,db04176fa60b9518
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j72g2000cwa.googlegroups.com!not-for-
mail
From: a7yvm109gf5d1@netzero.com
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Free PC Oscilloscope Software Preferences ?
Date: 30 Nov 2006 08:22:26 -0800
Organization: http://groups.google.com
Lines: 21
Message-ID: <1164903746.654158.203950@j72g2000cwa.googlegroups.com>
References: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 70.54.203.46
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164903751 11592 127.0.0.1 (30 Nov 2006 16:22:31 GMT)
```

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 30 Nov 2006 16:22:31 +0000 (UTC)
In-Reply-To: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.5) Gecko/
20041107 Firefox/1.0,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j72g2000cwa.googlegroups.com; posting-host=70.54.203.46;
   posting-account=mrg8Cg0AAAD9_unpSbGlV0MDmeF2x9m9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8029
sci.electronics.design:129268

skavanagh72nospam@yahoo.ca wrote:
> I am looking for a free oscilloscope program for the PC to run under
> Windows XP.   Does anyone have any preferences ?  It needs to be
> quasi-real....not just a toy, but it can be very simple.  I have no
> need for spectrum analysis and single trace would suffice, but I do
> need a calibrated timebase, for example.  So far what I have found does
> not meet my needs (time axis won't run slow enough, uncalibrated
> timebase, doesn't quite work properly on my computer....etc.).
>
> Steve

LOL what? An oscilloscope is hardware, what are you gonna do with
software without hardware somewhere? What are you gonna scope with this
program????
I mean you can download a free logic analyzer program, but without the
hardware what's the use?
Here's a free software that lets you control an oscilloscope...
http://www.rigolna.com/support_download.aspx

So it's free, and then what??




From -6611138640822612736
X-Google-Thread: fc2a5,db04176fa60b9518
X-Google-Thread: 112d1e,db04176fa60b9518
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j72g2000cwa.googlegroups.com!not-for-
mail
From: skavanagh72nospam@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Free PC Oscilloscope Software Preferences ?
Date: 30 Nov 2006 08:54:40 -0800
Organization: http://groups.google.com
Lines: 14
Message-ID: <1164905679.901864.13160@j72g2000cwa.googlegroups.com>
References: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
   <1164902599.181722.219350@h54g2000cwb.googlegroups.com>
NNTP-Posting-Host: 216.208.52.125
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164905685 27409 127.0.0.1 (30 Nov 2006 16:54:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 30 Nov 2006 16:54:45 +0000 (UTC)
In-Reply-To: <1164902599.181722.219350@h54g2000cwb.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j72g2000cwa.googlegroups.com; posting-host=216.208.52.125;
   posting-account=0Ys2Eg0AAADOQYhHmHwRZ2EGbJYic2GH
Xref: g2news2.google.com rec.radio.amateur.homebrew:8030
sci.electronics.design:129272
```

psdayama wrote:

> What is bandwidth required? There is good 'winscope' available free
> for frequencies upto 20Khz.

Bandwidth required is whatever the sound card can provide....so 20 kHz is fine. But the WINSCOPE I have found (by Konstantin Zeldovich) is limited to a 50ms scan time. I want to measure time differences of up to at least 100ms so this is not adequate.

But thanks for your suggestion.

Steve

```
From -8043626386216925001
X-Google-Thread: fc2a5,db04176fa60b9518
X-Google-Thread: 112d1e,db04176fa60b9518
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l12g2000cwl.googlegroups.com!not-for-
mail
From: skavanagh72nospam@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Free PC Oscilloscope Software Preferences ?
Date: 30 Nov 2006 08:57:53 -0800
Organization: http://groups.google.com
Lines: 15
Message-ID: <1164905873.798206.295740@l12g2000cwl.googlegroups.com>
References: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
   <1164903746.654158.203950@j72g2000cwa.googlegroups.com>
NNTP-Posting-Host: 216.208.52.125
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164905878 27846 127.0.0.1 (30 Nov 2006 16:57:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 30 Nov 2006 16:57:58 +0000 (UTC)
In-Reply-To: <1164903746.654158.203950@j72g2000cwa.googlegroups.com>
```

User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l12g2000cwl.googlegroups.com; posting-host=216.208.52.125;
   posting-account=0Ys2Eg0AAADOQYhHmHwRZ2EGbJYic2GH
Xref: g2news2.google.com rec.radio.amateur.homebrew:8031 sci.electronics.design:129273

a7yvm109gf5d1@netzero.com wrote:

> LOL what? An oscilloscope is hardware, what are you gonna do with
> software without hardware somewhere?

Sound card !

> I mean you can download a free logic analyzer program

That could be useful in some circumstances....any suggestions as to good ones (that don't use serial ports as it has to run on a modern notebook) ?

Steve

From 5193440799911371177
X-Google-Thread: fc2a5,db04176fa60b9518
X-Google-Thread: 112d1e,db04176fa60b9518
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!feed.cgocable.net!read1.cgocable.net.POSTED!53ab2750!not-for-mail
From: "Don Cleveland" <don.nospam.cleveland@cisg.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
Subject: Re: Free PC Oscilloscope Software Preferences ?
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <blEbh.4085$J32.2755@read1.cgocable.net>
Date: Thu, 30 Nov 2006 12:15:44 -0500
NNTP-Posting-Host: 216.221.95.107
X-Complaints-To: news@cogeco.net
X-Trace: read1.cgocable.net 1164906951 216.221.95.107 (Thu, 30 Nov 2006 12:15:51 EST)
NNTP-Posting-Date: Thu, 30 Nov 2006 12:15:51 EST
Organization: Cogeco Cable
Xref: g2news2.google.com rec.radio.amateur.homebrew:8032 sci.electronics.design:129278

```
<skavanagh72nospam@yahoo.ca> wrote in message
news:1164902059.411326.97880@80g2000cwy.googlegroups.com...
>I am looking for a free oscilloscope program for the PC to run under
> Windows XP.   Does anyone have any preferences ?  It needs to be
> quasi-real....not just a toy, but it can be very simple.  I have no
> need for spectrum analysis and single trace would suffice, but I do
> need a calibrated timebase, for example.  So far what I have found does
> not meet my needs (time axis won't run slow enough, uncalibrated
> timebase, doesn't quite work properly on my computer....etc.).
>
> Steve
>

Take a look at:

http://www.cleverscope.com/download/

They claim to have sound card support, so it might be worth a look.

Don




From 3058168539317821706
X-Google-Thread: fc2a5,db04176fa60b9518
X-Google-Thread: 112d1e,db04176fa60b9518
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!tiscali!
newsfeed1.ip.tiscali.net!proxad.net!cleanfeed3-a.proxad.net!nnrp17-2.free.fr!not-
for-mail
Date: Thu, 30 Nov 2006 18:17:57 +0100
From: OBones <obones_gfd_@_gfd_altern.org>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.8) Gecko/
20050511
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Free PC Oscilloscope Software Preferences ?
References: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
<1164903746.654158.203950@j72g2000cwa.googlegroups.com>
<1164905873.798206.295740@l12g2000cwl.googlegroups.com>
In-Reply-To: <1164905873.798206.295740@l12g2000cwl.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 7
Message-ID: <456f1241$0$31672$426a34cc@news.free.fr>
Organization: Guest of ProXad - France
NNTP-Posting-Date: 30 Nov 2006 18:17:53 MET
```

NNTP-Posting-Host: 82.235.150.75
X-Trace: 1164907073 news-4.free.fr 31672 82.235.150.75:1193
X-Complaints-To: abuse@proxad.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8033
sci.electronics.design:129279

skavanagh72nospam@yahoo.ca wrote:

> That could be useful in some circumstances....any suggestions as to
> good ones (that don't use serial ports as it has to run on a modern
> notebook) ?

You can always use a USB to serial converter.

From -8424771812196391832
X-Google-Thread: fc2a5,113bc567f7c3e893
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.tele.dk!
feed118.news.tele.dk!news.tele.dk!small.news.tele.dk!sn-xt-sjc-02!sn-xt-sjc-07!sn-
xt-sjc-11!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-
mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio designer software
Date: Thu, 30 Nov 2006 09:35:51 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12mu5jo6pks3c21@corp.supernews.com>
References: <Iitoi.2i2tpo@news.radiobanter.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 24
Xref: g2news2.google.com rec.radio.amateur.homebrew:8034

"Iitoi" <Iitoi.2i2tpo@news.radiobanter.com> wrote in message
news:Iitoi.2i2tpo@news.radiobanter.com...
> Can anyone recommend a similarly capable software package which will
> run on an XP platform. Need not be freeware, but also cannot afford a
> professional 'commercial' package.

I'd suggest trying out Ansoft SV,
http://www.ansoft.com/ansoftdesignersv/capabilities.cfm. I think one can make
a good argument it's -- by far -- the most powerful free RF simulation tool
out there. The user interface is a little odd, but only a little -- nowhere
near as different as, say, Eagle PCB is. There's a excellent tutorial for it
here:
http://www.elektronikschule.de/~krausg/Ansoft%20Designer%20SV/
English%20Tutorial%20Version/index_english.html

...by Gunthard Kraus.

There's also PUFF which... holy deja vu, Batman!... Gunthard Krauss has a page on getting to work with Windows XP. Sayre's book, "Complete Wireless Design." is almost the unofficial manual for it. It's nowhere near as powerful as Ansoft, but you might want to try it out anyway; in its day it was really quite good.

---Joel Kolstad

```
From 1064566519804118346
X-Google-Thread: fc2a5,db04176fa60b9518
X-Google-Thread: 112d1e,db04176fa60b9518
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!16g2000cwy.googlegroups.com!not-for-
mail
From: a7yvm109gf5d1@netzero.com
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Free PC Oscilloscope Software Preferences ?
Date: 30 Nov 2006 10:35:08 -0800
Organization: http://groups.google.com
Lines: 12
Message-ID: <1164911708.209016.34730@16g2000cwy.googlegroups.com>
References: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
   <1164903746.654158.203950@j72g2000cwa.googlegroups.com>
   <1164905873.798206.295740@l12g2000cwl.googlegroups.com>
NNTP-Posting-Host: 70.54.203.46
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164911714 32467 127.0.0.1 (30 Nov 2006 18:35:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 30 Nov 2006 18:35:14 +0000 (UTC)
In-Reply-To: <1164905873.798206.295740@l12g2000cwl.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.5) Gecko/
20041107 Firefox/1.0,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 16g2000cwy.googlegroups.com; posting-host=70.54.203.46;
   posting-account=mrg8Cg0AAAD9_unpSbGlV0MDmeF2x9m9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8035
sci.electronics.design:129313
```

skavanagh72nospam@yahoo.ca wrote:
> a7yvm109gf5d1@netzero.com wrote:
>
> > LOL what? An oscilloscope is hardware, what are you gonna do with
> > software without hardware somewhere?
>

> Sound card !

Bush league amateur stuff! What probe can you use? What can you probe worth a damn with 20Hz-20KHz? Except audio itself?

```
From 5223147833389143119
X-Google-Thread: fc2a5,db04176fa60b9518
X-Google-Thread: 112d1e,db04176fa60b9518
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!16g2000cwy.googlegroups.com!not-for-
mail
From: a7yvm109gf5d1@netzero.com
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Free PC Oscilloscope Software Preferences ?
Date: 30 Nov 2006 10:47:09 -0800
Organization: http://groups.google.com
Lines: 23
Message-ID: <1164912429.103016.81610@16g2000cwy.googlegroups.com>
References: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
   <1164903746.654158.203950@j72g2000cwa.googlegroups.com>
   <1164905873.798206.295740@l12g2000cwl.googlegroups.com>
NNTP-Posting-Host: 70.54.203.46
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164912435 1866 127.0.0.1 (30 Nov 2006 18:47:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 30 Nov 2006 18:47:15 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.5) Gecko/
20041107 Firefox/1.0,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 16g2000cwy.googlegroups.com; posting-host=70.54.203.46;
   posting-account=mrg8Cg0AAAD9_unpSbGlV0MDmeF2x9m9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8036
sci.electronics.design:129316
```

skavanagh72nospam@yahoo.ca wrote:
> a7yvm109gf5d1@netzero.com wrote:
>
> > LOL what? An oscilloscope is hardware, what are you gonna do with
> > software without hardware somewhere?
>
> Sound card !

Get real...

>
> > I mean you can download a free logic analyzer program
>
> That could be useful in some circumstances....any suggestions as to

> good ones (that don't use serial ports as it has to run on a modern
> notebook) ?

Sure, here's the free program. When you're ready, buy the logic analyzer and stop wasting time with bush league amateur stuff. It's your time to waste, but life is short.

http://www.pctestinstruments.com/downloads.htm

```
From 8300997309909275974
X-Google-Thread: fc2a5,a0c4cea1f56d214a,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!news.glorb.com!
newspeer.tds.net!216.170.153.140.MISMATCH!newsreading01.news.tds.net!53ab2750!not-
for-mail
From: "John, N9JG" <john@Xremove.MeYgotwals.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Where to purchase Fair-Rite toroid?
Lines: 10
Organization: CLM ARRL
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <nQFbh.1347$eb5.349@newsreading01.news.tds.net>
Date: Thu, 30 Nov 2006 18:57:23 GMT
NNTP-Posting-Host: 69.130.135.26
X-Complaints-To: news@tds.net
X-Trace: newsreading01.news.tds.net 1164913043 69.130.135.26 (Thu, 30 Nov 2006
12:57:23 CST)
NNTP-Posting-Date: Thu, 30 Nov 2006 12:57:23 CST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8037
```

Amidon sells the Fair-Rite toroid 5977003801 as Core Number FT-240-77 @ $9 each. In an attempt to get a better price, I contacted Lodestone Pacific and was told that this particular item has a "grid" of 50 which means their minimum order quantity is 50. I don't mind ordering 10 toroids, but 50 toroids would last me several lifetimes. A company called Kreg Component also handles this item, but it is on back order. Any suggestions on where to buy this toroid at a better price than Amidon?

```
From 1462509625204880007
X-Google-Thread: fc2a5,113bc567f7c3e893
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!news4.google.com!news.glorb.com!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio designer software
Date: 30 Nov 2006 19:03:29 GMT
Organization: The National Capital FreeNet
Lines: 22
Message-ID: <ekn9u1$e82$1@theodyn.ncf.ca>
References: <Iitoi.2i2tpo@news.radiobanter.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1164913409 14594 134.117.136.48 (30 Nov 2006 19:03:29 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 30 Nov 2006 19:03:29 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:8038

Iitoi (Iitoi.2i2tpo@news.radiobanter.com) writes:
> I have a copy of the old ARRL "Radio Designer" software, but it does not
> run on modern OS's, and ARRL has not renewed their agreement with the
> author.
>
> Can anyone recommend a similarly capable software package which will
> run on an XP platform. Need not be freeware, but also cannot afford a
> professional 'commercial' package.
>

This has come up in the past, ever since the ARRL stopped selling the software. Go to groups.google.com and do a search of this newsgroup using <arrl "radio designer"> as the searchwords. You're at least going to find discussion about alternatives after the ARRL version left the scene. It was apparently a truncated version of some commercial software and at one point at least there was a free student version of that commercial software. Read the threads, and it may be helpful finding an alternative. Though perhaps enough time has elapsed that the alternatives mentioned have passed into history also, or don't run on recent operating systems.

Michael VE2BVW

From -4877746329434781315
X-Google-Thread: fc2a5,db04176fa60b9518
X-Google-Thread: 112d1e,db04176fa60b9518
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!n67g2000cwd.googlegroups.com!not-for-mail
From: skavanagh72nospam@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Free PC Oscilloscope Software Preferences ?
Date: 30 Nov 2006 11:23:50 -0800
Organization: http://groups.google.com

Lines: 13
Message-ID: <1164914630.712555.49460@n67g2000cwd.googlegroups.com>
References: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
   <blEbh.4085$J32.2755@read1.cgocable.net>
NNTP-Posting-Host: 216.209.123.25
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164914636 7384 127.0.0.1 (30 Nov 2006 19:23:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 30 Nov 2006 19:23:56 +0000 (UTC)
In-Reply-To: <blEbh.4085$J32.2755@read1.cgocable.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n67g2000cwd.googlegroups.com; posting-host=216.209.123.25;
   posting-account=0Ys2Eg0AAADOQYhHmHwRZ2EGbJYic2GH
Xref: g2news2.google.com rec.radio.amateur.homebrew:8039
sci.electronics.design:129329

Don Cleveland wrote:

> Take a look at:
>
> http://www.cleverscope.com/download/

That works very nicely for my current requirement. Hope it doesn't
evaporate after 30 days or something !

Thanks, Don.

Steve

From -8526436502138260828
X-Google-Thread: fc2a5,db04176fa60b9518
X-Google-Thread: 112d1e,db04176fa60b9518
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f1g2000cwa.googlegroups.com!not-for-mail
From: skavanagh72nospam@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Free PC Oscilloscope Software Preferences ?
Date: 30 Nov 2006 11:25:46 -0800
Organization: http://groups.google.com
Lines: 11
Message-ID: <1164914746.337955.174800@f1g2000cwa.googlegroups.com>
References: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
   <1164903746.654158.203950@j72g2000cwa.googlegroups.com>
   <1164905873.798206.295740@l12g2000cwl.googlegroups.com>
   <1164912429.103016.81610@16g2000cwy.googlegroups.com>

```
NNTP-Posting-Host: 216.209.123.25
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164914752 7792 127.0.0.1 (30 Nov 2006 19:25:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 30 Nov 2006 19:25:52 +0000 (UTC)
In-Reply-To: <1164912429.103016.81610@16g2000cwy.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f1g2000cwa.googlegroups.com; posting-host=216.209.123.25;
   posting-account=0Ys2Eg0AAADOQYhHmHwRZ2EGbJYic2GH
Xref: g2news2.google.com rec.radio.amateur.homebrew:8040
sci.electronics.design:129330
```

> Sure, here's the free program. When you're ready, buy the logic
> analyzer and stop wasting time with bush league amateur stuff.

Sometimes the bush league amateur stuff is all that is needed !

> http://www.pctestinstruments.com/downloads.htm

Thanks for the link.

Steve

```
From -8526311452223759061
X-Google-Thread: fc2a5,db04176fa60b9518
X-Google-Thread: 112d1e,db04176fa60b9518
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news2.volia.net!news.buerger.net!open-
news-network.org!news.datemas.de!not-for-mail
From: Jan Panteltje <pNaonStpealmtje@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Free PC Oscilloscope Software Preferences ?
Date: Thu, 30 Nov 2006 20:03:53 GMT
Organization: Datemas.de http://datemas.de
Lines: 35
Message-ID: <ekndfh$u6l$1@news.datemas.de>
References: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
<1164903746.654158.203950@j72g2000cwa.googlegroups.com>
<1164905873.798206.295740@l12g2000cwl.googlegroups.com>
<1164912429.103016.81610@16g2000cwy.googlegroups.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-15
Content-Transfer-Encoding: 8bit
X-Trace: dAqD99g/uqJMFMoZVWqVsPTs/AvzOpv4VKF0l1/kXu+iatphFdjxF2IvKDCQL18BvzO/
IVtckopzxWrF0rHLoTlibIKh4YMNxiPNdlQAUyKBEng0Wr6NX+mt3/3i5JOhhO6ifbBKr3EKK7ozgeFASo
pledLkRyKrL6p2ElxEsJ4=
```

X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Thu, 30 Nov 2006 20:04:01 +0000 (UTC)
X-Newsreader-location: NewsFleX-1.5.7.2 (c) 'LIGHTSPEED' off line news reader for the Linux platform
 NewsFleX homepage: http://panteltje.com/panteltje/newsflex/ and ftp download ftp://sunsite.unc.edu/pub/linux/system/news/readers/
User-Agent: NewsFleX-1.5.7.2 (Linux-2.6.17.9)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8041 sci.electronics.design:129353

On a sunny day (30 Nov 2006 10:47:09 -0800) it happened a7yvm109gf5d1@netzero.com wrote in <1164912429.103016.81610@16g2000cwy.googlegroups.com>:

>skavanagh72nospam@yahoo.ca wrote:
>> a7yvm109gf5d1@netzero.com wrote:
>>
>> > LOL what? An oscilloscope is hardware, what are you gonna do with
>> > software without hardware somewhere?
>>
>> Sound card !
>
>Get real...
>
>>
>> > I mean you can download a free logic analyzer program
>>
>> That could be useful in some circumstances....any suggestions as to
>> good ones (that don't use serial ports as it has to run on a modern
>> notebook) ?
>
>Sure, here's the free program. When you're ready, buy the logic
>analyzer and stop wasting time with bush league amateur stuff. It's
>your time to waste, but life is short.
>
>http://www.pctestinstruments.com/downloads.htm

It should not be impossible to get a 100$ FPGA board, generate a VGA display,
use a 100MHz flash DC and have 100MHz logic analiser / digital storage scope
for little more then that plus the price of the probe and a few discrete
components.
Like for example here:
 http://www.fpga4fun.com/
 http://www.fpga4fun.com/digitalscope.html

From 3036348176922157392
X-Google-Thread: fc2a5,113bc567f7c3e893
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l12g2000cwl.googlegroups.com!not-for-mail

From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio designer software
Date: 30 Nov 2006 12:11:20 -0800
Organization: http://groups.google.com
Lines: 55
Message-ID: <1164917480.169829.124270@l12g2000cwl.googlegroups.com>
References: <Iitoi.2i2tpo@news.radiobanter.com>
NNTP-Posting-Host: 207.200.116.72
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164917485 14775 127.0.0.1 (30 Nov 2006 20:11:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 30 Nov 2006 20:11:25 +0000 (UTC)
In-Reply-To: <Iitoi.2i2tpo@news.radiobanter.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-ntc-ta02.proxy.aol.com[CFC8700A] (Prism/1.1.7), HTTP/1.1 cache-ntc-ab08.proxy.aol.com[CFC87448] (Traffic-Server/6.1.3 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: l12g2000cwl.googlegroups.com; posting-host=207.200.116.72;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:8042

From: Iitoi on Wed, Nov 29 2006 7:30 pm

>I have a copy of the old ARRL "Radio Designer" software, but it does not
>run on modern OS's, and ARRL has not renewed their agreement with the
>author.
>
>Can anyone recommend a similarly capable software package which will
>run on an XP platform. Need not be freeware, but also cannot afford a
>professional 'commercial' package.
>
>Suggestions?

I would suggest "LTSpice" from Linear Technology. A freebie!

A full SPICE program that includes a schematic-capture option in addition to the regular Netlist circuit entry. NO limitations on number of parts. Some general-purpose models included in supplied library. Runs fine on my XP Home operating system. Allows printout of schematics, waveform-response displays from my system.

This SPICE derivative was originally supplied as a marketing aid to demonstrate Linear's switched power-supply ICs...and apparently someone at Linear had the bright idea to supply it as a freebie. We can all benefit from that "marketing mistake" and enjoy a full-on SPICE program.

I've already used it for a few months and find it matches the commercially-packaged products from Intusoft and Orcad. Yes, it does do oscillators without any need to add special components to start one up. :-)

As with all SPICE derivatives, those not familiar with SPICE have a learning curve that might be steep. By now, though, SPICE is rather standardized and - usually - what is written about them in the recent past will apply here. The schematic-capture drawing function (converts automatically to a Netlist) is a bit clunky to use but then so are the commercial programs that have that.

So far, the supplied models in LTSpice Library all seem to follow the actual parts...such as with workhorse 2N3904 and 2N3906 and 1N4148 semiconductors, plus some others such as a few LEDs, several standard zeners. Some of the inductors and capacitors used with switching supplies are in the Library with reasonable internal characteristics (ESR on electrolytics, DC resistance and interwinding capacity on coils). One can add other SPICE models with a supplied model-entry function but I've not tried that yet...that be a prodigious side project. There's a couple of websites devoted to using LTSpice already on the 'web, one of those for modeling audio TUBE amplifiers.

www.linear.com   Look in, about 5 MB FREE download.

LenAnderson@ieee.org

From 5025068759587741888
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
X-Google-Attributes: gid112d1e,gidfc2a5,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!newsfeed.telusplanet.net!
newsfeed.telus.net!hwmnpeer01.phx!news.highwinds-media.com!hw-filter.phx!
newsfe12.phx.POSTED!53ab2750!not-for-mail
From: Bill Jeffrey <wjeffreyAT@alum.DOTmit.edu>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.12) Gecko/
20050915
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com>
<OImdnR8FQIknr_PYnZ2dnUVZ_sidnZ2d@web-ster.com>
In-Reply-To: <OImdnR8FQIknr_PYnZ2dnUVZ_sidnZ2d@web-ster.com>
Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Transfer-Encoding: 7bit
Lines: 23
Message-ID: <UPHbh.223$B42.75@newsfe12.phx>
Date: Thu, 30 Nov 2006 14:13:48 -0700
NNTP-Posting-Host: 70.190.182.206
X-Complaints-To: admin@cox.net
X-Trace: newsfe12.phx 1164921204 70.190.182.206 (Thu, 30 Nov 2006 14:13:24 MST)
NNTP-Posting-Date: Thu, 30 Nov 2006 14:13:24 MST
Organization: Cox
Xref: g2news2.google.com sci.electronics.design:129383
rec.radio.amateur.homebrew:8043 sci.electronics.repair:36461

Tim Wescott wrote:

> maxfoo wrote:
>
>> GAWD, These kids nowadays have it made!
>> Check out this kewl hotwheels radar gun on sale for $20.00 at Walmart.
>> I wonder if it's accurate though, I might just pick one up and dissect
>> it!!
>> Anyone already get one of these, is it accurate? TIA
>>
>> http://www.walmart.com/catalog/product.do?product_id=4661205
>>
>>
>>
> So, can you bend it down a few hundred megahertz into the amateur 10GHz
> band? Without spending more than you would for a Gunnplexer?
>

Probably not if the tuning element is a DRO.

Bill

From 2877706722506443435
X-Google-Thread: fc2a5,db04176fa60b9518
X-Google-Thread: 112d1e,db04176fa60b9518
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!news1.optus.net.au!optus!
newsfeeder.syd.optusnet.com.au!news.optusnet.com.au!not-for-mail
Date: Fri, 01 Dec 2006 08:44:07 +1100
From: Clifford Heath <no@spam.please.net>
User-Agent: Thunderbird 1.5.0.7 (X11/20060927)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Free PC Oscilloscope Software Preferences ?
References: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
<1164903746.654158.203950@j72g2000cwa.googlegroups.com>

```
<1164905873.798206.295740@l12g2000cwl.googlegroups.com>
<1164912429.103016.81610@16g2000cwy.googlegroups.com>
<ekndfh$u6l$1@news.datemas.de>
In-Reply-To: <ekndfh$u6l$1@news.datemas.de>
Content-Type: text/plain; charset=ISO-8859-15; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 5
Message-ID: <456f50a7$0$16558$afc38c87@news.optusnet.com.au>
NNTP-Posting-Host: 220.239.142.101
X-Trace: 1164923047  16558 220.239.142.101
Xref: g2news2.google.com rec.radio.amateur.homebrew:8044
sci.electronics.design:129389

Jan Panteltje wrote:
> It should not be impossible to get a 100$ FPGA board, generate a VGA display,
> use a 100MHz flash DC and have 100MHz logic analiser / digital storage scope

100MSPS != 100MHz



From 8948679163010234955
X-Google-Thread: fc2a5,db04176fa60b9518
X-Google-Thread: 112d1e,db04176fa60b9518
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news2.volia.net!news-out.ntli.net!
newsrout1-gui.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!
newsfe3-gui.ntli.net.POSTED!53ab2750!not-for-mail
From: "ian field" <dai.ode@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
<blEbh.4085$J32.2755@read1.cgocable.net>
Subject: Re: Free PC Oscilloscope Software Preferences ?
Lines: 31
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <JUIbh.1101$I6.90@newsfe3-gui.ntli.net>
Date: Thu, 30 Nov 2006 22:26:49 GMT
NNTP-Posting-Host: 62.253.114.208
X-Complaints-To: http://www.ntlworld.com/netreport
X-Trace: newsfe3-gui.ntli.net 1164925609 62.253.114.208 (Thu, 30 Nov 2006 22:26:49
GMT)
NNTP-Posting-Date: Thu, 30 Nov 2006 22:26:49 GMT
Organization: ntl Cablemodem News Service
Xref: g2news2.google.com rec.radio.amateur.homebrew:8045
sci.electronics.design:129397


"Don Cleveland" <don.nospam.cleveland@cisg.net> wrote in message
news:blEbh.4085$J32.2755@read1.cgocable.net...
```

>
> <skavanagh72nospam@yahoo.ca> wrote in message
> news:1164902059.411326.97880@80g2000cwy.googlegroups.com...
>>I am looking for a free oscilloscope program for the PC to run under
>> Windows XP.   Does anyone have any preferences ? It needs to be
>> quasi-real....not just a toy, but it can be very simple. I have no
>> need for spectrum analysis and single trace would suffice, but I do
>> need a calibrated timebase, for example. So far what I have found does
>> not meet my needs (time axis won't run slow enough, uncalibrated
>> timebase, doesn't quite work properly on my computer....etc.).
>>
>> Steve
>>
>
> Take a look at:
>
> http://www.cleverscope.com/download/
>
> They claim to have sound card support, so it might be worth a look.
>
> Don
>
>

Thanks for the link - by sheer co-incidence I was also looking for something
like that, and it looks like a good one too.

From 8671125553163331300
X-Google-Thread: fcc6e,28966154715bb8e0
X-Google-Thread: fc2a5,5ea17aeb391094e4
X-Google-Thread: 10bf43,28966154715bb8e0
X-Google-Thread: 1109af,28966154715bb8e0
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: Group poll.
From: Slow Code <my.mail@no.spam>
References: <ODu5h.5284$0r.5279@newsread1.news.pas.earthlink.net>
<ej6cua$2naq$1@news.ndhu.edu.tw> <ej8knc$kn5$1@news.hawaii.edu>
<1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net>
<5lO7h.283$_H5.256@tornado.texas.rr.com>
<u7s8h.1376$tM1.1345@newsread1.news.pas.earthlink.net>
<oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com>
<Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net>
<Jo89h.2462$Gk5.1576@tornado.texas.rr.com>

```
<E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net>
<Svs9h.2203$_H5.295@tornado.texas.rr.com>
<fjLah.4143$tM1.1155@newsread1.news.pas.earthlink.net>
<Klrbh.5898$_H5.4204@tornado.texas.rr.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 132
Message-ID: <mSKbh.5852$1s6.3802@newsread2.news.pas.earthlink.net>
Date: Fri, 01 Dec 2006 00:40:50 GMT
NNTP-Posting-Host: 4.230.9.164
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1164933650 4.230.9.164 (Thu, 30 Nov 2006
16:40:50 PST)
NNTP-Posting-Date: Thu, 30 Nov 2006 16:40:50 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:22194
rec.radio.amateur.homebrew:8046 rec.radio.amateur.policy:56274
rec.radio.swap:10366

"U-Know-Who" <no-one@nowhere.com> wrote in
news:Klrbh.5898$_H5.4204@tornado.texas.rr.com:

>
> "Slow Code" <my.mail@no.spam> wrote in message
> news:fjLah.4143$tM1.1155@newsread1.news.pas.earthlink.net...
>> "U-Know-Who" <no-one@nowhere.com> wrote in
>> news:Svs9h.2203$_H5.295@tornado.texas.rr.com:
>>
>>>
>>> "Slow Code" <my.mail@no.spam> wrote in message
>>> news:E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net...
>>>> "U-Know-Who" <no-one@nowhere.com> wrote in
>>>> news:Jo89h.2462$Gk5.1576@tornado.texas.rr.com:
>>>>
>>>>>
>>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>>> news:Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net...
>>>>>> Joe Bloe <abaslon@comcast.net> wrote in
>>>>>> news:oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com:
>>>>>>
>>>>>>> On Tue, 21 Nov 2006 00:54:50 GMT, Slow Code <my.mail@no.spam>
>>>>>>> wrote:
>>>>>>>
>>>>>>>>"U-Know-Who" <no-one@nowhere.com> wrote in
>>>>>>>>news:5lO7h.283$_H5.256@tornado.texas.rr.com:
>>>>>>>>
>>>>>>>>>
>>>>>>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>>>>>>> news:1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net...
>>>>>>>>>> jeffreyh@Hawaii.Edu (Jeffrey Herman) wrote in
>>>>>>>>>> news:ej8knc$kn5$1@news.hawaii.edu:
>>>>>>>>>>
>>>>>>>>>>> John Smith  <assemblywizard@gmail.com> wrote:
>>>>>>>>>>>>Idiot, check your spelling, it's "group troll."
```

```
>>>>>>>>>>>
>>>>>>>>>>> Well, let's see if he ment "poll" or "troll":
>>>>>>>>>>>
>>>>>>>>>>>
>>>>>>>>>>>         0  2  4  6  8  10
>>>>>>>>>>>                         /
>>>>>>>>>>>                        /
>>>>>>>>>>>                       /
>>>>>>>>>>>                      /
>>>>>>>>>>>                     /
>>>>>>>>>>>                    /
>>>>>>>>>>>                   /
>>>>>>>>>>>                  /
>>>>>>>>>>>           POLL-O-METER
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>> So what appliances does everyone hope Santa brings them for
>>>>>>>>>> Xmas?
>>>>>>>>>>
>>>>>>>>>> HF, VHF, UHF, KENWOOD, YAESU, ICOM, Cobra?
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>> I couldn't think of anything for myself, so I hope I just get a
>>>>>>>>>> some componants and a new soldering iron for projects so I can
>>>>>>>>>> keep moving forward in ham radio.
>>>>>>>>>>
>>>>>>>>>> SC
>>>>>>>>>
>>>>>>>>> And spell check for your PC. :-)
>>>>>>>>
>>>>>>>>
>>>>>>>>Which one do you have?  I want Santa to bring me a different one.
>>>>>>>>The one you have doesn't work.
>>>>>>>>
>>>>>>>>SC
>>>>>>>
>>>>>>>
>>>>>>>   Clip and paste to "Word for Windows". . .  It's got the best
>>>>>>>   spell
>>>>>>> checker in the market.  Just leave it running in the backgrould
>>>>>>> and call it up when you need to type out a letter or two.
>>>>>>
>>>>>>
>>>>>> Thanks,  I'll pass that on to U-Know-Who, but he probably don't
>>>>>> have word, just computer games.
>>>>>>
>>>>>> SC
>>>>>
>>>>> I have Office Pro 2003
>>>>
>>>>
>>>> WOW
```

```
>>>>
>>>> SC
>>>
>>> I ran your posts through it. It said to please excuse the idiot in
>>> Colorado who can't afford a high-speed connection.
>>
>>
>> Your CB radio not back from the repair shop so you got to attack real
>> radio operators?   I knew you went for those "easy-to-burn-up' Cobra
>> and Galaxy brand appliances.
>>
>> Oh, and I don't live in colorado,  I'm ya alls next door neighbor.
>>
>> Howdy Neighbor. Heee Heee Heeeeeeee!
>> SC
>
> IP Information 4.230.12.15
>       Record Type: IP Address
>       Cached Whois: Cached today
>       IP Location:  United States - Texas - Houston - Level 3
>       Communications
> Inc
>       Reverse DNS: dialup-4.230.12.15.Dial1.Houston1.Level3.net
>       Blacklist Status: Currently Listed (history)
>


From: "U-Know-Who" <no-one@nowhere.com>
Subject: Re: Group poll.
Message-ID: <Klrbh.5898$_H5.4204@tornado.texas.rr.com>
Date: Thu, 30 Nov 2006 02:28:58 GMT
NNTP-Posting-Host: 67.10.92.242


nslookup 67.10.92.242
Canonical name: cpe-67-10-92-242.houston.res.rr.com
Addresses: 67.10.92.242



Howdy Neighbor!

SC




From -7221833387445053611
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
X-Google-Attributes: gid112d1e,gidfc2a5,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!
```

border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 30 Nov 2006 18:55:44 -0600
From: maxfoo <maxfoo@punkass.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
Date: Thu, 30 Nov 2006 19:55:42 -0500
Organization: ...
Message-ID: <4suum215ap2tbgprbde7s6jm47h51t3fo8@4ax.com>
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com>
<OImdnR8FQIknr_PYnZ2dnUVZ_sidnZ2d@web-ster.com> <UPHbh.223$B42.75@newsfe12.phx>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 37
NNTP-Posting-Host: 71.232.171.160
X-Trace: sv3-yZL2hkBKvkFF9swnZwyA4R/9eLxbVRNl1RaIQtVUSqJKQ5/
Bmvnyvnvo1mLAwFNLhcgInZKBmvHo/zw!bODle7ziOPrGyohWc2FnI7FMKG98zCt7K04bPvQe/
QpSn93toVXNn5zI1DWqLuQPP3aNesj2EtFw!M1OVwyetne2zYBI=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com sci.electronics.design:129451
rec.radio.amateur.homebrew:8047 sci.electronics.repair:36473

On Thu, 30 Nov 2006 14:13:48 -0700, Bill Jeffrey <wjeffreyAT@alum.DOTmit.edu>
wrote:

>
>
>Tim Wescott wrote:
>
>> maxfoo wrote:
>>
>>> GAWD, These kids nowadays have it made!
>>> Check out this kewl hotwheels radar gun on sale for $20.00 at Walmart.
>>> I wonder if it's accurate though, I might just pick one up and dissect
>>> it!!
>>> Anyone already get one of these, is it accurate? TIA
>>>
>>> http://www.walmart.com/catalog/product.do?product_id=4661205
>>>
>>>
>>>
>> So, can you bend it down a few hundred megahertz into the amateur 10GHz
>> band? Without spending more than you would for a Gunnplexer?
>>

>
>Probably not if the tuning element is a DRO.
>
>Bill

The DRO has a tuning slut above it. You might be able to tune off frequency by a few MHz. The DRO puts out very little power <-30dBm might be a good idea to add an amp from mini-circuit, smdi, rfmd or hittite microwave, you should be able to get free samples from those companies. Another idea is to just get another puck in place of the one in the cavity. free sample pucks are available at shf microwave.

From -6461294163271693353
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
X-Google-Attributes: gid112d1e,gidfc2a5,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 30 Nov 2006 19:10:36 -0600
From: maxfoo <maxfoo@punkass.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
Date: Thu, 30 Nov 2006 20:10:35 -0500
Organization: ...
Message-ID: <o10vm29btutb1o4oq9iv6fuadagrh26339@4ax.com>
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com>
<OImdnR8FQIknr_PYnZ2dnUVZ_sidnZ2d@web-ster.com> <UPHbh.223$B42.75@newsfe12.phx>
<4suum215ap2tbgprbde7s6jm47h51t3fo8@4ax.com>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 45
NNTP-Posting-Host: 71.232.171.160
X-Trace: sv3-NByx53gTc7bFoTia+z7WZscU/
stKnItoSigqPW8AgxoLfC5K1YhYkb8WIStx27Dn1Gi+vl5h1QZbM3R!yx8GK3G8fj/
pJq0OnIIXbIYwxN21YAT/r6mlbqdvXxDg7bu/gaAJueDxeLxnhaisBwnbRneFTe51!m8U9jor06yX/J0U=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32

```
Xref: g2news2.google.com sci.electronics.design:129455
rec.radio.amateur.homebrew:8048 sci.electronics.repair:36475

On Thu, 30 Nov 2006 19:55:42 -0500, maxfoo <maxfoo@punkass.com> wrote:

>On Thu, 30 Nov 2006 14:13:48 -0700, Bill Jeffrey <wjeffreyAT@alum.DOTmit.edu>
>wrote:
>
>>
>>
>>Tim Wescott wrote:
>>
>>> maxfoo wrote:
>>>
>>>> GAWD, These kids nowadays have it made!
>>>> Check out this kewl hotwheels radar gun on sale for $20.00 at Walmart.
>>>> I wonder if it's accurate though, I might just pick one up and dissect
>>>> it!!
>>>> Anyone already get one of these, is it accurate? TIA
>>>>
>>>> http://www.walmart.com/catalog/product.do?product_id=4661205
>>>>
>>>>
>>>>
>>> So, can you bend it down a few hundred megahertz into the amateur 10GHz
>>> band?  Without spending more than you would for a Gunnplexer?
>>>
>>
>>Probably not if the tuning element is a DRO.
>>
>>Bill
>
>The DRO has a tuning slut above it. You might be able to tune off frequency by a
>few MHz. The DRO puts out very little power <-30dBm might be a good idea to add
>an amp from mini-circuit, smdi, rfmd or hittite microwave, you should be able to
>get free samples from those companies. Another idea is to just get another puck
>in place of the one in the cavity. free sample pucks are available at shf
>microwave.
>
>
>
>
Also you might try trimming the cavity to give it more area thus decreasing the
frequency.
BTW, These guys sell pucks
http://www.morganelectroceramics.com/microwave/puck_resonators.htm




From 718670974089695382
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
```

```
X-Google-Thread: 1131b0,ce1849f065a77a42
X-Google-Attributes: gid112d1e,gidfc2a5,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!
newsfeed2.telusplanet.net!newsfeed.telus.net!edtnps89.POSTED!53ab2750!not-for-mail
From: "Homer J Simpson" <nobody@nowhere.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com>
<OImdnR8FQIknr_PYnZ2dnUVZ_sidnZ2d@web-ster.com> <UPHbh.223$B42.75@newsfe12.phx>
<4suum215ap2tbgprbde7s6jm47h51t3fo8@4ax.com>
Subject: Re: Those wonderful TOYS!
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <6pLbh.7465$YV4.3023@edtnps89>
Date: Fri, 01 Dec 2006 01:17:54 GMT
NNTP-Posting-Host: 209.121.230.219
X-Trace: edtnps89 1164935874 209.121.230.219 (Thu, 30 Nov 2006 18:17:54 MST)
NNTP-Posting-Date: Thu, 30 Nov 2006 18:17:54 MST
Xref: g2news2.google.com sci.electronics.design:129457
rec.radio.amateur.homebrew:8049 sci.electronics.repair:36477
```

"maxfoo" <maxfoo@punkass.com> wrote in message
news:4suum215ap2tbgprbde7s6jm47h51t3fo8@4ax.com...

> The DRO has a tuning slut above it.

Oh, the imagery!

```
From -8181822189737210535
X-Google-Thread: fcc6e,28966154715bb8e0
X-Google-Thread: fc2a5,5ea17aeb391094e4
X-Google-Thread: 10bf43,28966154715bb8e0
X-Google-Thread: 1109af,28966154715bb8e0
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone.austin.rr.com!news.rr.com!
tornado.texas.rr.com.POSTED!53ab2750!not-for-mail
From: "U-Know-Who" <no-one@nowhere.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
```

```
References: <ODu5h.5284$0r.5279@newsread1.news.pas.earthlink.net>
<ej6cua$2naq$1@news.ndhu.edu.tw> <ej8knc$kn5$1@news.hawaii.edu>
<1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net>
<5lO7h.283$_H5.256@tornado.texas.rr.com>
<u7s8h.1376$tM1.1345@newsread1.news.pas.earthlink.net>
<oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com>
<Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net>
<Jo89h.2462$Gk5.1576@tornado.texas.rr.com>
<E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net>
<Svs9h.2203$_H5.295@tornado.texas.rr.com>
<fjLah.4143$tM1.1155@newsread1.news.pas.earthlink.net>
<Klrbh.5898$_H5.4204@tornado.texas.rr.com>
<mSKbh.5852$1s6.3802@newsread2.news.pas.earthlink.net>
Subject: Re: Group poll.
Lines: 142
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <TxLbh.6768$_H5.3321@tornado.texas.rr.com>
Date: Fri, 01 Dec 2006 01:27:15 GMT
NNTP-Posting-Host: 67.10.92.242
X-Complaints-To: abuse@rr.com
X-Trace: tornado.texas.rr.com 1164936435 67.10.92.242 (Thu, 30 Nov 2006 19:27:15
CST)
NNTP-Posting-Date: Thu, 30 Nov 2006 19:27:15 CST
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.antenna:22200
rec.radio.amateur.homebrew:8050 rec.radio.amateur.policy:56289
rec.radio.swap:10371


"Slow Code" <my.mail@no.spam> wrote in message
news:mSKbh.5852$1s6.3802@newsread2.news.pas.earthlink.net...
> "U-Know-Who" <no-one@nowhere.com> wrote in
> news:Klrbh.5898$_H5.4204@tornado.texas.rr.com:
>
>>
>> "Slow Code" <my.mail@no.spam> wrote in message
>> news:fjLah.4143$tM1.1155@newsread1.news.pas.earthlink.net...
>>> "U-Know-Who" <no-one@nowhere.com> wrote in
>>> news:Svs9h.2203$_H5.295@tornado.texas.rr.com:
>>>
>>>>
>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>> news:E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net...
>>>>> "U-Know-Who" <no-one@nowhere.com> wrote in
>>>>> news:Jo89h.2462$Gk5.1576@tornado.texas.rr.com:
>>>>>
>>>>>>
>>>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>>>> news:Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net...
```

```
>>>>>>> Joe Bloe <abaslon@comcast.net> wrote in
>>>>>>> news:oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com:
>>>>>>>
>>>>>>>> On Tue, 21 Nov 2006 00:54:50 GMT, Slow Code <my.mail@no.spam>
>>>>>>>> wrote:
>>>>>>>>
>>>>>>>>>"U-Know-Who" <no-one@nowhere.com> wrote in
>>>>>>>>>news:5lO7h.283$_H5.256@tornado.texas.rr.com:
>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>>>>>>>>> news:1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net...
>>>>>>>>>>>> jeffreyh@Hawaii.Edu (Jeffrey Herman) wrote in
>>>>>>>>>>>> news:ej8knc$kn5$1@news.hawaii.edu:
>>>>>>>>>>>>
>>>>>>>>>>>>> John Smith  <assemblywizard@gmail.com> wrote:
>>>>>>>>>>>>>>Idiot, check your spelling, it's "group troll."
>>>>>>>>>>>>>
>>>>>>>>>>>>> Well, let's see if he ment "poll" or "troll":
>>>>>>>>>>>>>
>>>>>>>>>>>>>
>>>>>>>>>>>>>         0  2  4  6  8  10
>>>>>>>>>>>>>                        /
>>>>>>>>>>>>>                       /
>>>>>>>>>>>>>                      /
>>>>>>>>>>>>>                     /
>>>>>>>>>>>>>                    /
>>>>>>>>>>>>>                   /
>>>>>>>>>>>>>                  /
>>>>>>>>>>>>>                 /
>>>>>>>>>>>>>           POLL-O-METER
>>>>>>>>>>>>
>>>>>>>>>>>>
>>>>>>>>>>>>
>>>>>>>>>>>> So what appliances does everyone hope Santa brings them for
>>>>>>>>>>>> Xmas?
>>>>>>>>>>>>
>>>>>>>>>>>> HF, VHF, UHF, KENWOOD, YAESU, ICOM, Cobra?
>>>>>>>>>>>>
>>>>>>>>>>>>
>>>>>>>>>>>> I couldn't think of anything for myself, so I hope I just get a
>>>>>>>>>>>> some componants and a new soldering iron for projects so I can
>>>>>>>>>>>> keep moving forward in ham radio.
>>>>>>>>>>>>
>>>>>>>>>>>> SC
>>>>>>>>>>>
>>>>>>>>>>> And spell check for your PC. :-)
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>Which one do you have?  I want Santa to bring me a different one.
>>>>>>>>>>The one you have doesn't work.
>>>>>>>>>>
>>>>>>>>>>SC
```

```
>>>>>>>>
>>>>>>>>
>>>>>>>>   Clip and paste to "Word for Windows". . .  It's got the best
>>>>>>>>   spell
>>>>>>>> checker in the market.  Just leave it running in the backgrould
>>>>>>>> and call it up when you need to type out a letter or two.
>>>>>>>
>>>>>>>
>>>>>>> Thanks,  I'll pass that on to U-Know-Who, but he probably don't
>>>>>>> have word, just computer games.
>>>>>>>
>>>>>>> SC
>>>>>>
>>>>>> I have Office Pro 2003
>>>>>
>>>>>
>>>>> WOW
>>>>>
>>>>> SC
>>>>
>>>> I ran your posts through it. It said to please excuse the idiot in
>>>> Colorado who can't afford a high-speed connection.
>>>
>>>
>>> Your CB radio not back from the repair shop so you got to attack real
>>> radio operators?   I knew you went for those "easy-to-burn-up' Cobra
>>> and Galaxy brand appliances.
>>>
>>> Oh, and I don't live in colorado,  I'm ya alls next door neighbor.
>>>
>>> Howdy Neighbor. Heee Heee Heeeeeeee!
>>> SC
>>
>> IP Information 4.230.12.15
>>       Record Type: IP Address
>>       Cached Whois: Cached today
>>       IP Location:  United States - Texas - Houston - Level 3
>>       Communications
>> Inc
>>       Reverse DNS: dialup-4.230.12.15.Dial1.Houston1.Level3.net
>>       Blacklist Status: Currently Listed (history)
>>
>
>
> From: "U-Know-Who" <no-one@nowhere.com>
> Subject: Re: Group poll.
> Message-ID: <Klrbh.5898$_H5.4204@tornado.texas.rr.com>
> Date: Thu, 30 Nov 2006 02:28:58 GMT
> NNTP-Posting-Host: 67.10.92.242
>
>
> nslookup 67.10.92.242
> Canonical name: cpe-67-10-92-242.houston.res.rr.com
```

> Addresses: 67.10.92.242
>
>
>
> Howdy Neighbor!
>
> SC
>

Yeah, but I have high speed. I can afford it. You, well now I understand why you like CW so much. It goes well with the spark gap that you use...of course most hams have real equipment, but you can only use what you can kludge together with old beer cans and salvaged copper wire.

From -4665970610167210351
X-Google-Thread: fc2a5,113bc567f7c3e893
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!bigfeed2.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews3.bellsouth.net.POSTED!ef49a7c3!not-for-mail
From: Ted KX4OM <kilocycles@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Radio designer software
Message-ID: <552vm2tj07pqft6hrc2736vgl33nbktbil@4ax.com>
References: <Iitoi.2i2tpo@news.radiobanter.com>
X-Newsreader: Forte Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 35
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcboicicfodnggablahkjfganofihbbcijimokompnccapjgkdbfmhniiggabpjgddgdkdmkllegdncmpbddnidimndoflghghjkeeebjjhoibbmmjja
NNTP-Posting-Date: Thu, 30 Nov 2006 21:05:09 EST
Organization: BellSouth Internet Group
Date: Thu, 30 Nov 2006 21:05:28 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8051

Ansoft's Designer SV is available as a student feature-limited download, and is the replacement for Serenade SV, upon which the ARRL program was based. I DL'd the demo, and IMHO, it is not oriented toward the HF RF market.

You won't find it onAnsoft'sr web site, but Serenade SV 8.5 is still available. I sent Ansoft an email, explained that I would be using it for amateur R&D/experimentation for the purpose of publishing in amateur periodicals (which is true - QRP Quarterly), and they agreed that if the Ansoft Designer SV did not meet my needs, they would try to find a CD of Serenade SV and send it to me. In the meantime, doing some serious Googling, I found a copy on a university web site, and I used that. It runs fine on XP.

If you search the ARRL web site, you'll find some examples in the January 2001 issue of QST that explored Serenade SV.

Good luck!

On Thu, 30 Nov 2006 03:30:00 +0000, Iitoi
<Iitoi.2i2tpo@news.radiobanter.com> wrote:

>
>I have a copy of the old ARRL "Radio Designer" software, but it does not
>run on modern OS's, and ARRL has not renewed their agreement with the
>author.
>
>Can anyone recommend a similarly capable software package which will
>run on an XP platform. Need not be freeware, but also cannot afford a
>professional 'commercial' package.
>
>Suggestions?
>
>The Man in the Maze
>QRL at Baboquivari Peak, AZ

From -1440687589357201868
X-Google-Thread: fc2a5,db04176fa60b9518
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!
bigfeed2.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!
news.bellsouth.net!bignews3.bellsouth.net.POSTED!ef49a7c3!not-for-mail
From: Ted KX4OM <kilocycles@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Free PC Oscilloscope Software Preferences ?
Message-ID: <vm3vm2psv2c5f5kn32suj76sls4kil2lhs@4ax.com>
References: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
X-Newsreader: Forte Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 4
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcbopgfldjmaonjdnophkaikhjbiabbhpmplok
ompnccapjgkdbfmhniiggabpjgddgdkdmkllegdncmpbddjgfacfmlbbjcpjillaelmjbbneffdfic
NNTP-Posting-Date: Thu, 30 Nov 2006 21:12:44 EST
Organization: BellSouth Internet Group
Date: Thu, 30 Nov 2006 21:13:03 -0500

```
Xref: g2news2.google.com rec.radio.amateur.homebrew:8052
```

With respect to "what can you measure", do some searching on mixing RF
signals down to baseband, for example, to look at 9 MHz crystal filter
performance. There have been numerous threads on Yahoo groups lately
on that, so you should be able to find some info.

```
From -6747350626279360434
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
X-Google-Attributes: gid112d1e,gidfc2a5,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 30 Nov 2006 20:30:08 -0600
From: maxfoo <maxfoo@punkass.com>
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
Date: Thu, 30 Nov 2006 21:30:07 -0500
Organization: ...
Message-ID: <hq4vm29d4cqqbfltmd8jmro6t9m9j8ikmq@4ax.com>
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com>
<OImdnR8FQIknr_PYnZ2dnUVZ_sidnZ2d@web-ster.com> <UPHbh.223$B42.75@newsfe12.phx>
<4suum215ap2tbgprbde7s6jm47h51t3fo8@4ax.com> <6pLbh.7465$YV4.3023@edtnps89>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 14
NNTP-Posting-Host: 71.232.171.160
X-Trace: sv3-74J3efEfq3xImSEmxuzYhzN/SfqLS7d384GEJTTq1fPai2MtL/AP3p/
Z6BmkQbs69eVK6CYYkxw3+aV!IF+rGbYR9cad+8KSFF1AaiUCcqTr60vWy17FZ5WXEh0kv/
xm27zEbX0svE5YwcdZTZCBBT1WbOGW!OUmqi/bYq9V+i0w=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com sci.electronics.design:129473
rec.radio.amateur.homebrew:8053 sci.electronics.repair:36487
```

On Fri, 01 Dec 2006 01:17:54 GMT, "Homer J Simpson" <nobody@nowhere.com> wrote:

```
>
>"maxfoo" <maxfoo@punkass.com> wrote in message
>news:4suum215ap2tbgprbde7s6jm47h51t3fo8@4ax.com...
>
```

>> The DRO has a tuning slut above it.
>
>Oh, the imagery!
>
>
Yup, she does a lapdance right over that puck and tunes it to excitation. :)

From -8977104097517651397
X-Google-Thread: fc2a5,db04176fa60b9518
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l12g2000cwl.googlegroups.com!not-for-mail
From: skavanagh72nospam@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Free PC Oscilloscope Software Preferences ?
Date: 30 Nov 2006 19:11:39 -0800
Organization: http://groups.google.com
Lines: 11
Message-ID: <1164942699.479569.272780@l12g2000cwl.googlegroups.com>
References: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
   <vm3vm2psv2c5f5kn32suj76sls4kil2lhs@4ax.com>
NNTP-Posting-Host: 216.209.123.83
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164942704 13374 127.0.0.1 (1 Dec 2006 03:11:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 1 Dec 2006 03:11:44 +0000 (UTC)
In-Reply-To: <vm3vm2psv2c5f5kn32suj76sls4kil2lhs@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l12g2000cwl.googlegroups.com; posting-host=216.209.123.83;
   posting-account=0Ys2Eg0AAADOQYhHmHwRZ2EGbJYic2GH
Xref: g2news2.google.com rec.radio.amateur.homebrew:8054

Ted KX4OM wrote:
> With respect to "what can you measure", do some searching on mixing RF
> signals down to baseband,

Hmmm..now you have me thinking about what can be done with this "bush league" test equipment and a downconverter....I'm thinking perhaps two-tone intermodulation tests on RF amplifers....Cleverscope does have a spectrum analyzer....

Steve

```
From -3992423060763732917
X-Google-Thread: fc2a5,a0c4cea1f56d214a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j44g2000cwa.googlegroups.com!not-for-
mail
From: sailtamarack@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where to purchase Fair-Rite toroid?
Date: 30 Nov 2006 20:04:12 -0800
Organization: http://groups.google.com
Lines: 15
Message-ID: <1164945852.054478.167880@j44g2000cwa.googlegroups.com>
References: <nQFbh.1347$eb5.349@newsreading01.news.tds.net>
NNTP-Posting-Host: 70.66.142.124
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164945859 21166 127.0.0.1 (1 Dec 2006 04:04:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 1 Dec 2006 04:04:19 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j44g2000cwa.googlegroups.com; posting-host=70.66.142.124;
   posting-account=gXcV3gwAAACKhdV_aZ9TbpV32cSAnBGe
Xref: g2news2.google.com rec.radio.amateur.homebrew:8055
```

Try going here for vendor info:

http://www.smeter.net/forums/about125.html

Roger

John, N9JG wrote:

> Amidon sells the Fair-Rite toroid 5977003801 as Core Number FT-240-77 @ $9
> each. In an attempt to get a better price, I contacted Lodestone Pacific and
> was told that this particular item has a "grid" of 50 which means their
> minimum order quantity is 50. I don't mind ordering 10 toroids, but 50
> toroids would last me several lifetimes. A company called Kreg Component
> also handles this item, but it is on back order. Any suggestions on where to
> buy this toroid at a better price than Amidon?

```
From -5903305676411772236
X-Google-Thread: fc2a5,db04176fa60b9518
X-Google-Thread: 112d1e,db04176fa60b9518
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!80g2000cwy.googlegroups.com!not-for-
mail
From: sailtamarack@yahoo.ca
```

Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Free PC Oscilloscope Software Preferences ?
Date: 30 Nov 2006 20:59:45 -0800
Organization: http://groups.google.com
Lines: 25
Message-ID: <1164949185.885305.324470@80g2000cwy.googlegroups.com>
References: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 70.66.142.124
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164949191 768 127.0.0.1 (1 Dec 2006 04:59:51 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 1 Dec 2006 04:59:51 +0000 (UTC)
In-Reply-To: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 80g2000cwy.googlegroups.com; posting-host=70.66.142.124;
   posting-account=gXcV3gwAAACKhdV_aZ9TbpV32cSAnBGe
Xref: g2news2.google.com rec.radio.amateur.homebrew:8056 sci.electronics.design:129498

Visual Analyser is free. Uses your soundcard as a scope, spectrum analyzer, audio signal generator, voltmeter etc. Scope has zoom, trigger, calibrate, screen capture and more.

Download at http://hacca.altervista.org/

Roger

Usual disclaimer - not affiliated wit author - just a satisfied user.

skavanagh72nospam@yahoo.ca wrote:
> I am looking for a free oscilloscope program for the PC to run under
> Windows XP.   Does anyone have any preferences ? It needs to be
> quasi-real....not just a toy, but it can be very simple. I have no
> need for spectrum analysis and single trace would suffice, but I do
> need a calibrated timebase, for example. So far what I have found does
> not meet my needs (time axis won't run slow enough, uncalibrated
> timebase, doesn't quite work properly on my computer....etc.).
>
> Steve

From 4590117291031329OO
X-Google-Thread: fc2a5,db04176fa60b9518
X-Google-Thread: 112d1e,db04176fa60b9518

```
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!news.datemas.de!not-
for-mail
From: Jan Panteltje <pNaonStpealmtje@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Free PC Oscilloscope Software Preferences ?
Date: Fri, 01 Dec 2006 10:17:08 GMT
Organization: Datemas.de http://datemas.de
Lines: 12
Message-ID: <ekovf5$1r2$1@news.datemas.de>
References: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
<1164903746.654158.203950@j72g2000cwa.googlegroups.com>
<1164905873.798206.295740@l12g2000cwl.googlegroups.com>
<1164912429.103016.81610@16g2000cwy.googlegroups.com>
<ekndfh$u6l$1@news.datemas.de> <456f50a7$0$16558$afc38c87@news.optusnet.com.au>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-15
Content-Transfer-Encoding: 8bit
X-Trace: ESiK4jn4VotNdHrNoowwvAKPk52/xXHPed/iMhz4Z/
9ivF9sHmzqooSOeBlI+fFiGWP6JVXapkUCyXbiQX5UJDRUjCFjT8zHMEOirXdfy92RA2f9OsLOvowprEPV
64GllQ3sDozFq862Rm+Wid93RaRd0/0dlesQKL6uqe06yxU=
X-Complaints-To: abuse@datemas.de
NNTP-Posting-Date: Fri, 1 Dec 2006 10:17:10 +0000 (UTC)
X-Newsreader-location: NewsFleX-1.5.7.2 (c) 'LIGHTSPEED' off line news reader for
the Linux platform
 NewsFleX homepage: http://panteltje.com/panteltje/newsflex/ and ftp download
ftp://sunsite.unc.edu/pub/linux/system/news/readers/
User-Agent: NewsFleX-1.5.7.2 (Linux-2.6.17.9)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8057
sci.electronics.design:129535

On a sunny day (Fri, 01 Dec 2006 08:44:07 +1100) it happened Clifford Heath
<no@spam.please.net> wrote in
<456f50a7$0$16558$afc38c87@news.optusnet.com.au>:

>Jan Panteltje wrote:
>> It should not be impossible to get a 100$ FPGA board, generate a VGA display,
>> use a 100MHz flash DC and have 100MHz logic analiser / digital storage scope
>
>100MSPS != 100MHz

OK
But good enough for me.


From 5000694101857589993
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
X-Google-Attributes: gid112d1e,gidfc2a5,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
```

```
border2.nntp.dca.giganews.com!nntp.giganews.com!out02a.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!hwmnpeer01.phx!news.highwinds-
media.com!hw-filter.phx!newsfe09.phx.POSTED!53ab2750!not-for-mail
From: JoeBloe <joebloe@thebarattheendoftheuniverse.org>
Newsgroups:
sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
Organization: Meet Joe Bloe
Reply-To: joebloe@nosuchplace.org
Message-ID: <qt70n2d3focflt4epe7m4f04ihs944fbgj@4ax.com>
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com>
<OImdnR8FQIknr_PYnZ2dnUVZ_sidnZ2d@web-ster.com> <UPHbh.223$B42.75@newsfe12.phx>
<4suum215ap2tbgprbde7s6jm47h51t3fo8@4ax.com> <6pLbh.7465$YV4.3023@edtnps89>
<hq4vm29d4cqqbfltmd8jmro6t9m9j8ikmq@4ax.com>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 17
Date: Fri, 01 Dec 2006 04:27:56 -0800
NNTP-Posting-Host: 72.197.137.68
X-Complaints-To: admin@cox.net
X-Trace: newsfe09.phx 1164976078 72.197.137.68 (Fri, 01 Dec 2006 05:27:58 MST)
NNTP-Posting-Date: Fri, 01 Dec 2006 05:27:58 MST
Xref: g2news2.google.com sci.electronics.design:129557
rec.radio.amateur.homebrew:8058 sci.electronics.repair:36520

On Thu, 30 Nov 2006 21:30:07 -0500, maxfoo <maxfoo@punkass.com> Gave
us:

>On Fri, 01 Dec 2006 01:17:54 GMT, "Homer J Simpson" <nobody@nowhere.com> wrote:
>
>>
>>"maxfoo" <maxfoo@punkass.com> wrote in message
>>news:4suum215ap2tbgprbde7s6jm47h51t3fo8@4ax.com...
>>
>>> The DRO has a tuning slut above it.
>>
>>Oh, the imagery!
>>
>>
>Yup, she does a lapdance right over that puck and tunes it to excitation. :)
>
  Pucking perverts!


From 8867359168180385334
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
X-Google-Attributes: gid112d1e,gidfc2a5,gid1131b0,public
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news01.roc.ny.POSTED!fd24bd7a!not-for-mail
From: gwatts <gwatts@frontiernet.net>
User-Agent: Mozilla Thunderbird 1.0.6 (Windows/20050716)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: sci.electronics.design,rec.radio.amateur.homebrew,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com> <3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com> <OImdnR8FQIknr_PYnZ2dnUVZ_sidnZ2d@web-ster.com> <UPHbh.223$B42.75@newsfe12.phx>
In-Reply-To: <UPHbh.223$B42.75@newsfe12.phx>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 32
Message-ID: <z0Xbh.6553$Ka1.5652@news01.roc.ny>
X-Complaints-To: abuse-news@frontiernet.net
X-Trace: 52616e646f6d49567942aa9b802daf2fb34eb8727a942746e62a53d7948fa190405099ec8e9fbc618b5584b1dac468740b39b8456f222081ee3fa09760f173ea5297a50a9d9e29539f3eb561c657249dde8836651349b09a20610f8c7a4b2732943777a37a6c8ef0641bcf59735f2a71e1a72932d5cd68ce481ac4cba5141501
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your complaint properly.
NNTP-Posting-Date: Fri, 01 Dec 2006 14:30:55 UTC
Date: Fri, 01 Dec 2006 14:30:55 GMT
Xref: g2news2.google.com sci.electronics.design:129599 rec.radio.amateur.homebrew:8059 sci.electronics.repair:36526

Bill Jeffrey wrote:
>
>
> Tim Wescott wrote:
>
>> maxfoo wrote:
>>
>>> GAWD, These kids nowadays have it made!
>>> Check out this kewl hotwheels radar gun on sale for $20.00 at Walmart.
>>> I wonder if it's accurate though, I might just pick one up and
>>> dissect it!!
>>> Anyone already get one of these, is it accurate? TIA
>>>
>>> http://www.walmart.com/catalog/product.do?product_id=4661205
>>>
>>>
>>>
>> So, can you bend it down a few hundred megahertz into the amateur
>> 10GHz band? Without spending more than you would for a Gunnplexer?
>>
>

> Probably not if the tuning element is a DRO.
>
> Bill

There's been quite a bit of discussion about the radar gun on the Microwave mailing list,   http://www.valinet.com/mailman/listinfo/microwave and a bit on http://www.austech.info/showthread.php?t=135840

I ordered two.

- Galen, W8LNA

```
From 4046946133426074099
X-Google-Thread: fc2a5,db04176fa60b9518
X-Google-Thread: 112d1e,db04176fa60b9518
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l12g2000cwl.googlegroups.com!not-for-
mail
From: skavanagh72nospam@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Free PC Oscilloscope Software Preferences ?
Date: 1 Dec 2006 07:32:38 -0800
Organization: http://groups.google.com
Lines: 11
Message-ID: <1164987158.237972.178340@l12g2000cwl.googlegroups.com>
References: <1164902059.411326.97880@80g2000cwy.googlegroups.com>
   <1164949185.885305.324470@80g2000cwy.googlegroups.com>
NNTP-Posting-Host: 216.208.52.119
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164987163 24656 127.0.0.1 (1 Dec 2006 15:32:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 1 Dec 2006 15:32:43 +0000 (UTC)
In-Reply-To: <1164949185.885305.324470@80g2000cwy.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l12g2000cwl.googlegroups.com; posting-host=216.208.52.119;
   posting-account=0Ys2Eg0AAADOQYhHmHwRZ2EGbJYic2GH
Xref: g2news2.google.com rec.radio.amateur.homebrew:8060
sci.electronics.design:129627
```

sailtamarack@yahoo.ca wrote:

> Visual Analyser is free. Uses your soundcard as a scope, spectrum analyzer, audio signal generator, voltmeter etc. Scope has zoom, trigger, calibrate, screen capture and more.
>
> Download at http://hacca.altervista.org/

Yes...that one looks pretty good for my needs too. Thanks.

Steve

From 1883497776316601605
X-Google-Thread: fc2a5,a0c4cea1f56d214a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 01 Dec 2006 11:12:15 -0600
From: "Joe L." <joe@falseaddress2004.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where to purchase Fair-Rite toroid?
References: <nQFbh.1347$eb5.349@newsreading01.news.tds.net>
User-Agent: MT-NewsWatcher/3.4 (PPC Mac OS X)
Date: Fri, 01 Dec 2006 11:12:15 -0600
Message-ID: <joe-BE5EB7.11121401122006@comcast.dca.giganews.com>
Lines: 23
NNTP-Posting-Host: 71.228.13.4
X-Trace: sv3-oGKNFOtmY5Q6V54bF/4aY2IxO+dWV0L+Nd26R6Mk+SEXsdacsNQPND/
vijrmo0E4NFgy8Hy6m9x08ls!JxP23yqnWks+zfizvQB+E5m3PsSPGrPCfdwFWLg4Vty7p0bV7ghen2Wu/
SwUaDpb5ZaWXimO30TD!EKw8w3z9nbLU/KpfFkuIswrc
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8061

In article <nQFbh.1347$eb5.349@newsreading01.news.tds.net>,
"John, N9JG" <john@Xremove.MeYgotwals.com> wrote:

> Amidon sells the Fair-Rite toroid 5977003801 as Core Number FT-240-77 @ $9
> each. In an attempt to get a better price, I contacted Lodestone Pacific and
> was told that this particular item has a "grid" of 50 which means their
> minimum order quantity is 50. I don't mind ordering 10 toroids, but 50
> toroids would last me several lifetimes. A company called Kreg Component
> also handles this item, but it is on back order. Any suggestions on where to
> buy this toroid at a better price than Amidon?

John,

It's tough to find better pricing in low quantities. Considering that
even small toroids are at least $0.50, a big one like FT-240-77 for $9
doesn't seem out of line for 1~10 pcs. At least Amidon makes it possible
to buy in such small quantities. Another good supplier is Ocean State
Electronics (http://www.oselectronics.com) and their price is $8.75.

So, whatcha building anyway?

--
Joe K9LY

From 2181443858360279326
X-Google-Thread: fc2a5,a0c4cea1f56d214a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!news.glorb.com!nntpserver.com!zeus.nntpserver.com!falcon.america.net!newspeer.tds.net!216.170.153.140.MISMATCH!newsreading01.news.tds.net!53ab2750!not-for-mail
From: "John, N9JG" <john@Xremove.MeYgotwals.com>
Newsgroups: rec.radio.amateur.homebrew
References: <nQFbh.1347$eb5.349@newsreading01.news.tds.net> <joe-BE5EB7.11121401122006@comcast.dca.giganews.com>
Subject: Re: Where to purchase Fair-Rite toroid?
Lines: 37
Organization: CLM ARRL
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <2%Zbh.1390$eb5.709@newsreading01.news.tds.net>
Date: Fri, 01 Dec 2006 17:54:06 GMT
NNTP-Posting-Host: 69.130.135.26
X-Complaints-To: news@tds.net
X-Trace: newsreading01.news.tds.net 1164995646 69.130.135.26 (Fri, 01 Dec 2006 11:54:06 CST)
NNTP-Posting-Date: Fri, 01 Dec 2006 11:54:06 CST
Xref: g2news2.google.com rec.radio.amateur.homebrew:8062

Yes, Amidon's price is fair, but if I can buy 10 of these large toroids for $6 rather than $10, I would probably bite.

These toroids are for use as common-mode filters for wires leading to/from electronic equipment. My ham rig operates primarily in the bands between 1.8 & 21.5 MHz.

"Joe L." <joe@falseaddress2004.net> wrote in message
news:joe-BE5EB7.11121401122006@comcast.dca.giganews.com...
> In article <nQFbh.1347$eb5.349@newsreading01.news.tds.net>,
> "John, N9JG" <john@Xremove.MeYgotwals.com> wrote:
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>> each. In an attempt to get a better price, I contacted Lodestone Pacific
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>> was told that this particular item has a "grid" of 50 which means their
>> minimum order quantity is 50. I don't mind ordering 10 toroids, but 50
>> toroids would last me several lifetimes. A company called Kreg Component
>> also handles this item, but it is on back order. Any suggestions on where

>> to
>> buy this toroid at a better price than Amidon?
>
> John,
>
> It's tough to find better pricing in low quantities. Considering that
> even small toroids are at least $0.50, a big one like FT-240-77 for $9
> doesn't seem out of line for 1~10 pcs. At least Amidon makes it possible
> to buy in such small quantities. Another good supplier is Ocean State
> Electronics (http://www.oselectronics.com) and their price is $8.75.
>
> So, whatcha building anyway?
>
> --
> Joe K9LY

From 9180674303891760542
X-Google-Thread: fc2a5,a0c4cea1f56d214a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!newsfeed.stanford.edu!newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-02!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where to purchase Fair-Rite toroid?
Date: Fri, 01 Dec 2006 19:45:57 -0000
Organization: Home for Obscure Mythical Beings
Message-ID: <12n11jlm8qb5g0b@corp.supernews.com>
References: <nQFbh.1347$eb5.349@newsreading01.news.tds.net> <joe-BE5EB7.11121401122006@comcast.dca.giganews.com>
<2%Zbh.1390$eb5.709@newsreading01.news.tds.net>
X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
X-Complaints-To: abuse@supernews.com
Lines: 46
Xref: g2news2.google.com rec.radio.amateur.homebrew:8063

In article <2%Zbh.1390$eb5.709@newsreading01.news.tds.net>,
John, N9JG <john@Xremove.MeYgotwals.com> wrote:

>Yes, Amidon's price is fair, but if I can buy 10 of these large toroids for
>$6 rather than $10, I would probably bite.
>
>These toroids are for use as common-mode filters for wires leading to/from
>electronic equipment. My ham rig operates primarily in the bands between 1.8
>& 21.5 MHz.

You might want to check with electronic-surplus stores. Most of the
ones around here have a fair supply of ferrite cylinders and toroids

of various sizes (some pre-wound with wire, others bare). A lot of them appear to have been intended for power-supply filtering applications of one sort or another, and might be suitable for your needs.

Being that they're ferrite, there's little or no standardization in labelling or color coding (and many of them are "naked" ferrite with no coding at all) - you'd have to buy a few, and then run some inductance-vs.-frequency tests to see if you could figure out what sort of ferrite mix was used and whether its inductance and loss in your frequency range is acceptable.

It's a bit of a carp-shoot, but if you're lucky you might be able to pick up a bunch of usable ones (if not necessarily of the exact same size and mix you were thinking of) for rather less money... maybe as little as a dollar or two each.

Hmmm. As an example, I just checked one surplus dealer (www.mpja.com) and see that they have a Magnetics ferrite toroid, 1.9" OD, made by Magnetics, of a type "J" ferrite mix (permeability 5000), intended for EMI/RFI filtering (and for broadband transformers below 1 MHz). Data sheet for this mix can be found at

http://www.mag-inc.com/pdf/Ferrites/2006_Materials_J.pdf

MPJA sells these for $3.95 each in onesies, $2.95 if you want 20 or more. If those would do, you could buy 20 for the same $60 that you were hoping to be able to spend for ten of the Fair-Rite toroids.

--
Dave Platt <dplatt@radagast.org> AE6EO
Hosting the Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

From -6803433068501320092
X-Google-Thread: fcc6e,28966154715bb8e0
X-Google-Thread: fc2a5,5ea17aeb391094e4
X-Google-Thread: 10bf43,28966154715bb8e0
X-Google-Thread: 1109af,28966154715bb8e0
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: Group poll.
From: Slow Code <my.mail@no.spam>
References: <ODu5h.5284$0r.5279@newsread1.news.pas.earthlink.net>
<ej6cua$2naq$1@news.ndhu.edu.tw> <ej8knc$kn5$1@news.hawaii.edu>

<1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net>
<5lO7h.283$_H5.256@tornado.texas.rr.com>
<u7s8h.1376$tM1.1345@newsread1.news.pas.earthlink.net>
<oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com>
<Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net>
<Jo89h.2462$Gk5.1576@tornado.texas.rr.com>
<E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net>
<Svs9h.2203$_H5.295@tornado.texas.rr.com>
<fjLah.4143$tM1.1155@newsread1.news.pas.earthlink.net>
<Klrbh.5898$_H5.4204@tornado.texas.rr.com>
<mSKbh.5852$1s6.3802@newsread2.news.pas.earthlink.net>
<TxLbh.6768$_H5.3321@tornado.texas.rr.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 153
Message-ID: <qR4ch.5481$sf5.538@newsread4.news.pas.earthlink.net>
Date: Sat, 02 Dec 2006 01:41:42 GMT
NNTP-Posting-Host: 4.230.0.204
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1165023702 4.230.0.204 (Fri, 01 Dec 2006 17:41:42 PST)
NNTP-Posting-Date: Fri, 01 Dec 2006 17:41:42 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:22246 rec.radio.amateur.homebrew:8064 rec.radio.amateur.policy:56476 rec.radio.swap:10402

"U-Know-Who" <no-one@nowhere.com> wrote in
news:TxLbh.6768$_H5.3321@tornado.texas.rr.com:

>
> "Slow Code" <my.mail@no.spam> wrote in message
> news:mSKbh.5852$1s6.3802@newsread2.news.pas.earthlink.net...
>> "U-Know-Who" <no-one@nowhere.com> wrote in
>> news:Klrbh.5898$_H5.4204@tornado.texas.rr.com:
>>
>>>
>>> "Slow Code" <my.mail@no.spam> wrote in message
>>> news:fjLah.4143$tM1.1155@newsread1.news.pas.earthlink.net...
>>>> "U-Know-Who" <no-one@nowhere.com> wrote in
>>>> news:Svs9h.2203$_H5.295@tornado.texas.rr.com:
>>>>
>>>>>
>>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>>> news:E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net...
>>>>>> "U-Know-Who" <no-one@nowhere.com> wrote in
>>>>>> news:Jo89h.2462$Gk5.1576@tornado.texas.rr.com:
>>>>>>
>>>>>>>
>>>>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>>>>> news:Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net...
>>>>>>>> Joe Bloe <abaslon@comcast.net> wrote in
>>>>>>>> news:oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com:
>>>>>>>>

```
>>>>>>>>> On Tue, 21 Nov 2006 00:54:50 GMT, Slow Code <my.mail@no.spam>
>>>>>>>>> wrote:
>>>>>>>>>
>>>>>>>>>>"U-Know-Who" <no-one@nowhere.com> wrote in
>>>>>>>>>>news:5l07h.283$_H5.256@tornado.texas.rr.com:
>>>>>>>>>>
>>>>>>>>>>>
>>>>>>>>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>>>>>>>>> news:1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net...
>>>>>>>>>>>> jeffreyh@Hawaii.Edu (Jeffrey Herman) wrote in
>>>>>>>>>>>> news:ej8knc$kn5$1@news.hawaii.edu:
>>>>>>>>>>>>
>>>>>>>>>>>>> John Smith  <assemblywizard@gmail.com> wrote:
>>>>>>>>>>>>>>Idiot, check your spelling, it's "group troll."
>>>>>>>>>>>>>
>>>>>>>>>>>>> Well, let's see if he ment "poll" or "troll":
>>>>>>>>>>>>>
>>>>>>>>>>>>>
>>>>>>>>>>>>>         0  2  4  6  8  10
>>>>>>>>>>>>>                        /
>>>>>>>>>>>>>                       /
>>>>>>>>>>>>>                      /
>>>>>>>>>>>>>                     /
>>>>>>>>>>>>>                    /
>>>>>>>>>>>>>                   /
>>>>>>>>>>>>>                  /
>>>>>>>>>>>>>                 /
>>>>>>>>>>>>>           POLL-O-METER
>>>>>>>>>>>>
>>>>>>>>>>>>
>>>>>>>>>>>>
>>>>>>>>>>>> So what appliances does everyone hope Santa brings them for
>>>>>>>>>>>> Xmas?
>>>>>>>>>>>>
>>>>>>>>>>>> HF, VHF, UHF, KENWOOD, YAESU, ICOM, Cobra?
>>>>>>>>>>>>
>>>>>>>>>>>>
>>>>>>>>>>>> I couldn't think of anything for myself, so I hope I just get
>>>>>>>>>>>> a some componants and a new soldering iron for projects so I
>>>>>>>>>>>> can keep moving forward in ham radio.
>>>>>>>>>>>>
>>>>>>>>>>>> SC
>>>>>>>>>>>
>>>>>>>>>>> And spell check for your PC. :-)
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>Which one do you have?  I want Santa to bring me a different
>>>>>>>>>>one. The one you have doesn't work.
>>>>>>>>>>
>>>>>>>>>>SC
>>>>>>>>>
>>>>>>>>>
>>>>>>>>>   Clip and paste to "Word for Windows". . .  It's got the best
```

```
>>>>>>>>>   spell
>>>>>>>>> checker in the market.  Just leave it running in the backgrould
>>>>>>>>> and call it up when you need to type out a letter or two.
>>>>>>>>
>>>>>>>>
>>>>>>>> Thanks,  I'll pass that on to U-Know-Who, but he probably don't
>>>>>>>> have word, just computer games.
>>>>>>>>
>>>>>>>> SC
>>>>>>>
>>>>>>> I have Office Pro 2003
>>>>>>
>>>>>>
>>>>>> WOW
>>>>>>
>>>>>> SC
>>>>>
>>>>> I ran your posts through it. It said to please excuse the idiot in
>>>>> Colorado who can't afford a high-speed connection.
>>>>
>>>>
>>>> Your CB radio not back from the repair shop so you got to attack real
>>>> radio operators?   I knew you went for those "easy-to-burn-up' Cobra
>>>> and Galaxy brand appliances.
>>>>
>>>> Oh, and I don't live in colorado,  I'm ya alls next door neighbor.
>>>>
>>>> Howdy Neighbor. Heee Heee Heeeeeeee!
>>>> SC
>>>
>>> IP Information 4.230.12.15
>>>       Record Type: IP Address
>>>       Cached Whois: Cached today
>>>       IP Location:  United States - Texas - Houston - Level 3
>>>       Communications
>>> Inc
>>>       Reverse DNS: dialup-4.230.12.15.Dial1.Houston1.Level3.net
>>>       Blacklist Status: Currently Listed (history)
>>>
>>
>>
>> From: "U-Know-Who" <no-one@nowhere.com>
>> Subject: Re: Group poll.
>> Message-ID: <Klrbh.5898$_H5.4204@tornado.texas.rr.com>
>> Date: Thu, 30 Nov 2006 02:28:58 GMT
>> NNTP-Posting-Host: 67.10.92.242
>>
>>
>> nslookup 67.10.92.242
>> Canonical name: cpe-67-10-92-242.houston.res.rr.com
>> Addresses: 67.10.92.242
>>
>>
```

>>
>> Howdy Neighbor!
>>
>> SC
>>
>
> Yeah, but I have high speed. I can afford it.

But you're bankrupt when it comes to radio skills. No need worry though,
I'm here to help you.

Ok, repeat after me:

di-dah A, di-dah A
dah-di-di-dit B, dah-di-di-dit B
dah-di-dah-dit C, dah-di-dah-dit C
dah-di-dit D, dah-di-dit D ....

SC

From 8501448243828709423
X-Google-Thread: fcc6e,28966154715bb8e0
X-Google-Thread: fc2a5,5ea17aeb391094e4
X-Google-Thread: 10bf43,28966154715bb8e0
X-Google-Thread: 1109af,28966154715bb8e0
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: kookathon
Date: Fri, 01 Dec 2006 21:23:09 -0500
Message-ID: <ero1n2lq4d5nvgtcmj6lva6frj8uos47n1@4ax.com>
References: <Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net>
<Jo89h.2462$Gk5.1576@tornado.texas.rr.com>
<E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net>
<Svs9h.2203$_H5.295@tornado.texas.rr.com>
<fjLah.4143$tM1.1155@newsread1.news.pas.earthlink.net>
<Klrbh.5898$_H5.4204@tornado.texas.rr.com>
<mSKbh.5852$1s6.3802@newsread2.news.pas.earthlink.net>
<TxLbh.6768$_H5.3321@tornado.texas.rr.com>
<qR4ch.5481$sf5.538@newsread4.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 158
NNTP-Posting-Date: 02 Dec 2006 01:28:30 GMT

```
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:22252
rec.radio.amateur.homebrew:8065 rec.radio.amateur.policy:56488
rec.radio.swap:10410

On Sat, 02 Dec 2006 01:41:42 GMT, Slow Code <my.mail@no.spam> wrote:

>"U-Know-Who" <no-one@nowhere.com> wrote in
>news:TxLbh.6768$_H5.3321@tornado.texas.rr.com:
>
>>
>> "Slow Code" <my.mail@no.spam> wrote in message
>> news:mSKbh.5852$1s6.3802@newsread2.news.pas.earthlink.net...
>>> "U-Know-Who" <no-one@nowhere.com> wrote in
>>> news:Klrbh.5898$_H5.4204@tornado.texas.rr.com:
>>>
>>>>
>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>> news:fjLah.4143$tM1.1155@newsread1.news.pas.earthlink.net...
>>>>> "U-Know-Who" <no-one@nowhere.com> wrote in
>>>>> news:Svs9h.2203$_H5.295@tornado.texas.rr.com:
>>>>>
>>>>>>
>>>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>>>> news:E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net...
>>>>>>> "U-Know-Who" <no-one@nowhere.com> wrote in
>>>>>>> news:Jo89h.2462$Gk5.1576@tornado.texas.rr.com:
>>>>>>>
>>>>>>>>
>>>>>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>>>>>> news:Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net...
>>>>>>>>> Joe Bloe <abaslon@comcast.net> wrote in
>>>>>>>>> news:oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com:
>>>>>>>>>
>>>>>>>>>> On Tue, 21 Nov 2006 00:54:50 GMT, Slow Code <my.mail@no.spam>
>>>>>>>>>> wrote:
>>>>>>>>>>
>>>>>>>>>>>"U-Know-Who" <no-one@nowhere.com> wrote in
>>>>>>>>>>>news:5lO7h.283$_H5.256@tornado.texas.rr.com:
>>>>>>>>>>>
>>>>>>>>>>>>
>>>>>>>>>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>>>>>>>>>> news:1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net...
>>>>>>>>>>>>> jeffreyh@Hawaii.Edu (Jeffrey Herman) wrote in
>>>>>>>>>>>>> news:ej8knc$kn5$1@news.hawaii.edu:
>>>>>>>>>>>>>
>>>>>>>>>>>>>> John Smith  <assemblywizard@gmail.com> wrote:
>>>>>>>>>>>>>>>Idiot, check your spelling, it's "group troll."
>>>>>>>>>>>>>>
>>>>>>>>>>>>>> Well, let's see if he ment "poll" or "troll":
>>>>>>>>>>>>>>
>>>>>>>>>>>>>>
>>>>>>>>>>>>>>         0  2  4  6  8  10
```

```
>>>>>>>>>>>>>>                        /
>>>>>>>>>>>>>>                       /
>>>>>>>>>>>>>>                      /
>>>>>>>>>>>>>>                     /
>>>>>>>>>>>>>>                    /
>>>>>>>>>>>>>>                   /
>>>>>>>>>>>>>>                  /
>>>>>>>>>>>>>>                 /
>>>>>>>>>>>>>>           POLL-O-METER
>>>>>>>>>>>>>
>>>>>>>>>>>>>
>>>>>>>>>>>>>
>>>>>>>>>>>>> So what appliances does everyone hope Santa brings them for
>>>>>>>>>>>>> Xmas?
>>>>>>>>>>>>>
>>>>>>>>>>>>> HF, VHF, UHF, KENWOOD, YAESU, ICOM, Cobra?
>>>>>>>>>>>>>
>>>>>>>>>>>>>
>>>>>>>>>>>>> I couldn't think of anything for myself, so I hope I just get
>>>>>>>>>>>>> a some componants and a new soldering iron for projects so I
>>>>>>>>>>>>> can keep moving forward in ham radio.
>>>>>>>>>>>>>
>>>>>>>>>>>>> SC
>>>>>>>>>>>>
>>>>>>>>>>>> And spell check for your PC. :-)
>>>>>>>>>>>
>>>>>>>>>>>
>>>>>>>>>>>Which one do you have?  I want Santa to bring me a different
>>>>>>>>>>>one. The one you have doesn't work.
>>>>>>>>>>>
>>>>>>>>>>>SC
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>   Clip and paste to "Word for Windows". . .  It's got the best
>>>>>>>>>>   spell
>>>>>>>>>> checker in the market.  Just leave it running in the backgrould
>>>>>>>>>> and call it up when you need to type out a letter or two.
>>>>>>>>>
>>>>>>>>>
>>>>>>>>> Thanks,  I'll pass that on to U-Know-Who, but he probably don't
>>>>>>>>> have word, just computer games.
>>>>>>>>>
>>>>>>>>> SC
>>>>>>>>
>>>>>>>> I have Office Pro 2003
>>>>>>>
>>>>>>>
>>>>>>> WOW
>>>>>>>
>>>>>>> SC
>>>>>>
>>>>>> I ran your posts through it. It said to please excuse the idiot in
>>>>>> Colorado who can't afford a high-speed connection.
```

```
>>>>>
>>>>>
>>>>> Your CB radio not back from the repair shop so you got to attack real
>>>>> radio operators?   I knew you went for those "easy-to-burn-up' Cobra
>>>>> and Galaxy brand appliances.
>>>>>
>>>>> Oh, and I don't live in colorado,  I'm ya alls next door neighbor.
>>>>>
>>>>> Howdy Neighbor. Heee Heee Heeeeeeee!
>>>>> SC
>>>>
>>>> IP Information 4.230.12.15
>>>>       Record Type: IP Address
>>>>       Cached Whois: Cached today
>>>>       IP Location:  United States - Texas - Houston - Level 3
>>>>       Communications
>>>> Inc
>>>>       Reverse DNS: dialup-4.230.12.15.Dial1.Houston1.Level3.net
>>>>       Blacklist Status: Currently Listed (history)
>>>>
>>>
>>>
>>> From: "U-Know-Who" <no-one@nowhere.com>
>>> Subject: Re: Group poll.
>>> Message-ID: <Klrbh.5898$_H5.4204@tornado.texas.rr.com>
>>> Date: Thu, 30 Nov 2006 02:28:58 GMT
>>> NNTP-Posting-Host: 67.10.92.242
>>>
>>>
>>> nslookup 67.10.92.242
>>> Canonical name: cpe-67-10-92-242.houston.res.rr.com
>>> Addresses: 67.10.92.242
>>>
>>>
>>>
>>> Howdy Neighbor!
>>>
>>> SC
>>>
>>
>> Yeah, but I have high speed. I can afford it.
>
>
>But you're bankrupt when it comes to radio skills. No need worry though,
>I'm here to help you.
>
>Ok, repeat after me:
>
>di-dah  A,  di-dah A
>dah-di-di-dit B,  dah-di-di-dit B
>dah-di-dah-dit C, dah-di-dah-dit C
>dah-di-dit D, dah-di-dit D ....
```

you offered no help with radio skill steve
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

---

From -8570081969381099105
X-Google-Thread: fc2a5,b1114611b7981467,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!news.glorb.com!
news.alt.net!feeder.nmix.net!216.184.2.11.MISMATCH!iruka!not-for-mail
From: msix@nmia.com
Newsgroups: rec.radio.amateur.homebrew
Subject: FS: TR relays de W7ZFB
Date: Sat, 2 Dec 2006 02:47:27 +0000 (UTC)
Organization: Southwest Cyberport
Lines: 13
Message-ID: <ekqpfv$ep6$1@iruka.swcp.com>
NNTP-Posting-Host: plato.nmia.com
X-Trace: iruka.swcp.com 1165027647 15142 64.42.128.47 (2 Dec 2006 02:47:27 GMT)
X-Complaints-To: usenet@iruka.swcp.com
NNTP-Posting-Date: Sat, 2 Dec 2006 02:47:27 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8066

Small SPDT silver-plated BNC coax relays
These are Danbury-Knudsen, FXR or Motorola,
flat to 600MHz, 100W
FXR, NOS, 115VAC coil, 2 x 1.5 x 1 inches
D-K, used, 18-24VDC coil, 2 x 1.5 x 1 inches
D-K, used, 18-24VDC coil, 2 x 1.5 x 1 inches
D-K, used, 12VDC coil, 2 x 1.5 x 1 inches
Motorola, NOS, 13.6VDC coil, 3 x 2.5 x 1.5 inches
All 5 for $42 pp 48

73 John
n

From -1504408916951542753
X-Google-Thread: fcc6e,acc6225a4b60ce92,start
X-Google-Thread: 108122,a7963c4f8bc06da4
X-Google-Thread: fc2a5,acc6225a4b60ce92,start
X-Google-Thread: 10bf43,acc6225a4b60ce92,start
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!news.glorb.com!
newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!

stamper.news.pas.earthlink.net!newsread1.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: Classic Computer for a Ham Shack
From: Slow Code <my.mail@no.spam>
References: <1164727510.256694.183240@h54g2000cwb.googlegroups.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 57
Message-ID: <VYoch.6166$tM1.86@newsread1.news.pas.earthlink.net>
Date: Sun, 03 Dec 2006 00:35:01 GMT
NNTP-Posting-Host: 4.254.231.5
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1165106101 4.254.231.5 (Sat, 02 Dec 2006 16:35:01 PST)
NNTP-Posting-Date: Sat, 02 Dec 2006 16:35:01 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:22340
rec.radio.amateur.equipment:7384 rec.radio.amateur.homebrew:8067
rec.radio.amateur.policy:56578

"Alex" <samalex@gmail.com> wrote in
news:1164727510.256694.183240@h54g2000cwb.googlegroups.com:

> Hey Guys,
>
> I'm a new ham radio operator, but I've been working with computers for
> most of my life. I'm now in the process of setting-up my first 'ham
> shack', and instead of going with the latest and greatest, I hope to
> employee several classic computers to help me along. I have quite a
> collection in my closet I plan on pulling out, but I'd like opinions of
> others on what they would use in such a situation.
>
> First, I do want to connect my radio to the computer, and many of the
> technologies used by ham radio operators, like slow scan TV, packet
> radio, etc, can be used on most of the classic computers in some form
> or fashion. This I don't think I'll have a problem, no matter which
> systemI go with.
>
> One of the main things I do want to do is have the computer on my home
> network. I don't need a web browser or even a GUI interface... the
> main thing I would really need is Telnet and FTP. I also want
> something with a word processor and spreadsheet program -- even
> Visicalc would be nice to use.
>
> And finally I want something fun.. which is the entire point of this
> venture :) I know some older computers still have huge repositories of
> software online, and whether it's a game or neat utility, I'd love to
> setup a classic computer I can really use and have fun with while in my
> 'ham shack'.
>
> Here's a list of computers I have around me now:

> Tandy Color Computer 2
> Tandy Color Computer 3 (128K model)
> Commodore Amiga 500
> Apple II (original, not PLUS)
> Mac Classic
>
> And though I don't currently own one, I'm looking at getting a
> Commodore 128 as well, either from a friend of possibly from ebay.
>
> Anyway, just curious what others would choose if you had to pick a
> computer or even a couple of older computers to use again. Also if
> there's any ham operators out there with experience with older systems,
> I'd love some feedback!
>
> Take care, and thanks in advance for any ideas.
>
> Alex

Hi Alex, You sound like a brand new no-code Tech. Welcome to ham radio.

All those computers you mentioned will work fine, but if you really want
to do any serious computer work you're going to want to invest in a Vic
20, or a TI-99, or a Commodore 64. Power users swear by'em.

SC

From 9110924784469409858
X-Google-Thread: fcc6e,9770b54fa0752b0f
X-Google-Thread: fc2a5,8dffcadd3cfb0f1,start
X-Google-Thread: 107ada,8dffcadd3cfb0f1,start
X-Google-Thread: 10bf43,8dffcadd3cfb0f1,start
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: Guide Lines for this news group
From: Slow Code <my.mail@no.spam>
References: <YHhch.49776$4Z1.24675@newsfe09.phx>
<pve3n21b5p2no0et7ucgrfihn9iccen58g@4ax.com>
<tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 46
Message-ID: <1Zoch.6172$tM1.5232@newsread1.news.pas.earthlink.net>
Date: Sun, 03 Dec 2006 00:35:09 GMT
NNTP-Posting-Host: 4.254.231.5
X-Complaints-To: abuse@earthlink.net

X-Trace: newsread1.news.pas.earthlink.net 1165106109 4.254.231.5 (Sat, 02 Dec 2006 16:35:09 PST)
NNTP-Posting-Date: Sat, 02 Dec 2006 16:35:09 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:22343
rec.radio.amateur.homebrew:8068 rec.radio.amateur.misc:26706
rec.radio.amateur.policy:56584

Danny Richardson <n_group@k6mhe.com> wrote in
news:tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com:

> On Sat, 02 Dec 2006 09:48:44 -0800, Bill Turner <noway@nowhow.com>
> wrote:
>
>>ORIGINAL MESSAGE:
>>
>>On Sat, 2 Dec 2006 08:19:07 -0800, "Caveat Lector" <CL@nowhere.com>
>> wrote:
>>
>>>Maybe this will help(a little) to get rid of the off topic posts
>>>
>>>For what this News Group is about and applicable guide lines see URL:
>>>
>>>http://www.faqs.org/faqs/radio/personal-intro/
>>>
>>>Thanks for reading
>>>73 CL
>>>
>>
>>------------ REPLY FOLLOWS ------------
>>
>>Dream on, CL. These guys already know that and they don't care. It's
>>been that way forever. It's the Curse of Usenet.
>>
>>Bill, W6WRT
>
> After years of resisting I'm ready for a moderated antenna group. I've
> used my kill filter more times in the last three months than I've ever
> done in the previous ten years.
>
> I, for one, am sick and tired of the foul-mouth off topic postings
> and, if that requires a moderated group to get rid of them it would be
> a very small price to pay.
>
> Danny,

I know what you mean Dan. With the anticipation that ham radio is going
to get dumbed down again real soon, the dumb-it-downers like Lenny,
Markie, Opus and a few others are really trashing the groups with anti
code test hate. We can only hope the code requirement is retained and
increased so that they can't get on HF and mess that up too.

SC

```
From -2742651937951783076
X-Google-Thread: fcc6e,acc6225a4b60ce92
X-Google-Thread: 108122,a7963c4f8bc06da4
X-Google-Thread: fc2a5,acc6225a4b60ce92
X-Google-Thread: 10bf43,acc6225a4b60ce92
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.maxwell.syr.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy
Subject: kookathon on clockwork
Date: Sat, 02 Dec 2006 20:15:10 -0500
Message-ID: <3894n2t4fqkg169sq5bv75ctdrit785g5v@4ax.com>
References: <1164727510.256694.183240@h54g2000cwb.googlegroups.com>
<VYoch.6166$tM1.86@newsread1.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 56
NNTP-Posting-Date: 03 Dec 2006 00:20:31 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:22355
rec.radio.amateur.equipment:7392 rec.radio.amateur.homebrew:8069
rec.radio.amateur.policy:56608

On Sun, 03 Dec 2006 00:35:01 GMT, Slow Code <my.mail@no.spam> wrote:

>"Alex" <samalex@gmail.com> wrote in
>news:1164727510.256694.183240@h54g2000cwb.googlegroups.com:
>
>> Hey Guys,
>>
>> I'm a new ham radio operator, but I've been working with computers for
>> most of my life.  I'm now in the process of setting-up my first 'ham
>> shack', and instead of going with the latest and greatest, I hope to
>> employee several classic computers to help me along.  I have quite a
>> collection in my closet I plan on pulling out, but I'd like opinions of
>> others on what they would use in such a situation.
>>
>> First, I do want to connect my radio to the computer, and many of the
>> technologies used by ham radio operators, like slow scan TV, packet
>> radio, etc, can be used on most of the classic computers in some form
>> or fashion.  This I don't think I'll have a problem, no matter which
>> systemI go with.
>>
>> One of the main things I do want to do is have the computer on my home
>> network.  I don't need a web browser or even a GUI interface... the
```

>> main thing I would really need is Telnet and FTP. I also want
>> something with a word processor and spreadsheet program -- even
>> Visicalc would be nice to use.
>>
>> And finally I want something fun.. which is the entire point of this
>> venture :) I know some older computers still have huge repositories of
>> software online, and whether it's a game or neat utility, I'd love to
>> setup a classic computer I can really use and have fun with while in my
>> 'ham shack'.
>>
>> Here's a list of computers I have around me now:
>> Tandy Color Computer 2
>> Tandy Color Computer 3 (128K model)
>> Commodore Amiga 500
>> Apple II (original, not PLUS)
>> Mac Classic
>>
>> And though I don't currently own one, I'm looking at getting a
>> Commodore 128 as well, either from a friend of possibly from ebay.
>>
>> Anyway, just curious what others would choose if you had to pick a
>> computer or even a couple of older computers to use again. Also if
>> there's any ham operators out there with experience with older systems,
>> I'd love some feedback!
>>
>> Take care, and thanks in advance for any ideas.
>>
>> Alex
>
>
>Hi Alex, You sound like a brand new no-code Tech. Welcome to ham radio.

kookathon on clockwork
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -1013723403194030567
X-Google-Thread: fcc6e,9770b54fa0752b0f
X-Google-Thread: fc2a5,8dffcadd3cfb0f1
X-Google-Thread: 107ada,8dffcadd3cfb0f1
X-Google-Thread: 10bf43,8dffcadd3cfb0f1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy

Subject: kookathon on clockwork
Date: Sat, 02 Dec 2006 20:19:24 -0500
Message-ID: <pe94n2p9k96848kvvnbblmrddfohbho8v7@4ax.com>
References: <YHhch.49776$4Z1.24675@newsfe09.phx>
<pve3n21b5p2no0et7ucgrfihn9iccen58g@4ax.com>
<tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com>
<1Zoch.6172$tM1.5232@newsread1.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 58
NNTP-Posting-Date: 03 Dec 2006 00:24:45 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:22356
rec.radio.amateur.homebrew:8070 rec.radio.amateur.misc:26719
rec.radio.amateur.policy:56611

On Sun, 03 Dec 2006 00:35:09 GMT, Slow Code <my.mail@no.spam> wrote:

>Danny Richardson <n_group@k6mhe.com> wrote in
>news:tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com:
>
>> On Sat, 02 Dec 2006 09:48:44 -0800, Bill Turner <noway@nowhow.com>
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>>
>>>ORIGINAL MESSAGE:
>>>
>>>On Sat, 2 Dec 2006 08:19:07 -0800, "Caveat Lector" <CL@nowhere.com>
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>>>
>>>>Maybe this will help(a little) to get rid of the off topic posts
>>>>
>>>>For what this News Group is about and applicable guide lines see URL:
>>>>
>>>>http://www.faqs.org/faqs/radio/personal-intro/
>>>>
>>>>Thanks for reading
>>>>73 CL
>>>>
>>>
>>>------------ REPLY FOLLOWS ------------
>>>
>>>Dream on, CL. These guys already know that and they don't care. It's
>>>been that way forever. It's the Curse of Usenet.
>>>
>>>Bill, W6WRT
>>
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>> used my kill filter more times in the last three months than I've ever
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>>
>> I, for one, am sick and tired of the foul-mouth off topic postings

```
>> and, if that requires a moderated group to get rid of them it would be
>> a very small price to pay.
>>
>> Danny,
>
>
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>to get dumbed down again real soon, the dumb-it-downers like Lenny,
>Markie, Opus and a few others are really trashing the groups with anti
>code test hate.  We can only hope the code requirement is retained and
>increased so that they can't get on HF and mess that up too.

but you have admitted to being a Bad Ham and that YOU want to kill the
ARS steve
'
and you keep trolling ngs looking for more thread to trol with

and you are band on time

kookathon on clockwork
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From 6669412392847568036
X-Google-Thread: fc2a5,a0c4cea1f56d214a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!out01b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-
out.readnews.com!postnews3.readnews.com!not-for-mail
Date: Sat, 02 Dec 2006 20:25:03 -0700
From: hayseed <nothere@bogus.com>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where to purchase Fair-Rite toroid?
References: <nQFbh.1347$eb5.349@newsreading01.news.tds.net>
<1164945852.054478.167880@j44g2000cwa.googlegroups.com>
In-Reply-To: <1164945852.054478.167880@j44g2000cwa.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 5
Message-ID: <457250fd$0$3487$a82e2bb9@reader.athenanews.com>
NNTP-Posting-Host: 6695cecb.reader.athenanews.com
X-Trace:
DXC=9aVI35[Z\`OhTdk:X8UTXJaTHcV2NR;jK:LKFL\Y2OoJmcKX^kbD`WJmR;i0PionRFCnYfiV:^7TCZ
<?Z4f2N0\G
```

```
X-Complaints-To: abuse@athenanews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:8071
```

Try Dan's small parts at:

http://www.danssmallpartsandkits.net/

-Bob

```
From 2534037780524013082
X-Google-Thread: fcc6e,9770b54fa0752b0f
X-Google-Thread: fc2a5,8dffcadd3cfb0f1
X-Google-Thread: 107ada,8dffcadd3cfb0f1
X-Google-Thread: 10bf43,8dffcadd3cfb0f1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!16g2000cwy.googlegroups.com!not-for-
mail
From: hot-ham-and-cheese@hotmail.com
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.ra
dio.amateur.policy
Subject: Re: Guide Lines for this news group
Date: 2 Dec 2006 19:32:56 -0800
Organization: http://groups.google.com
Lines: 53
Message-ID: <1165116776.575952.37510@16g2000cwy.googlegroups.com>
References: <YHhch.49776$4Z1.24675@newsfe09.phx>
   <pve3n21b5p2no0et7ucgrfihn9iccen58g@4ax.com>
   <tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com>
   <1Zoch.6172$tM1.5232@newsread1.news.pas.earthlink.net>
NNTP-Posting-Host: 4.224.228.66
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165116782 23447 127.0.0.1 (3 Dec 2006 03:33:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 3 Dec 2006 03:33:02 +0000 (UTC)
In-Reply-To: <1Zoch.6172$tM1.5232@newsread1.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 16g2000cwy.googlegroups.com; posting-host=4.224.228.66;
   posting-account=mMyuWQ0AAAANPpX1wK2NRuuQfAjm_kIo
Xref: g2news2.google.com rec.radio.amateur.antenna:22380
rec.radio.amateur.homebrew:8072 rec.radio.amateur.misc:26728
rec.radio.amateur.policy:56626
```

Slow Code wrote:

> Danny Richardson <n_group@k6mhe.com> wrote in
> news:tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com:

```
>
> > On Sat, 02 Dec 2006 09:48:44 -0800, Bill Turner <noway@nowhow.com>
> > wrote:
> >
> >>ORIGINAL MESSAGE:
> >>
> >>On Sat, 2 Dec 2006 08:19:07 -0800, "Caveat Lector" <CL@nowhere.com>
> >> wrote:
> >>
> >>>Maybe this will help(a little) to get rid of the off topic posts
> >>>
> >>>For what this News Group is about and applicable guide lines see URL:
> >>>
> >>>http://www.faqs.org/faqs/radio/personal-intro/
> >>>
> >>>Thanks for reading
> >>>73 CL
> >>>
> >>
> >>------------ REPLY FOLLOWS ------------
> >>
> >>Dream on, CL. These guys already know that and they don't care. It's
> >>been that way forever. It's the Curse of Usenet.
> >>
> >>Bill, W6WRT
> >
> > After years of resisting I'm ready for a moderated antenna group. I've
> > used my kill filter more times in the last three months than I've ever
> > done in the previous ten years.
> >
> > I, for one, am sick and tired of the foul-mouth off topic postings
> > and, if that requires a moderated group to get rid of them it would be
> > a very small price to pay.
> >
> > Danny,
>
>
> I know what you mean Dan.

No you don't.  You're one of the foul-mouthed off-topic posters that
Dan is complaining about.

> With the anticipation that ham radio is going
> to get dumbed down again real soon, the dumb-it-downers

It got "dumbed-down" when a license was issued to you.

BTW, what is your call?



From 3054057495138630515
X-Google-Thread: fcc6e,9770b54fa0752b0f
```

```
X-Google-Thread: fc2a5,8dffcadd3cfb0f1
X-Google-Thread: 107ada,8dffcadd3cfb0f1
X-Google-Thread: 10bf43,8dffcadd3cfb0f1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns14feed!worldnet.att.net!207.14.113.41!news.alt.net
From: "A. G. Bell" <hello?@marksakook>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.ra
dio.amateur.policy
Subject: Re: Guide Lines for this news group
Date: Sat, 2 Dec 2006 22:44:24 -0500
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 61
Message-ID: <gq6nq.ubo.19.1@news.alt.net>
References: <YHhch.49776$4Z1.24675@newsfe09.phx>
<pve3n21b5p2no0et7ucgrfihn9iccen58g@4ax.com>
<tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com>
<1Zoch.6172$tM1.5232@newsread1.news.pas.earthlink.net>
<1165116776.575952.37510@16g2000cwy.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Xref: g2news2.google.com rec.radio.amateur.antenna:22382
rec.radio.amateur.homebrew:8073 rec.radio.amateur.misc:26729
rec.radio.amateur.policy:56627
```

<hot-ham-and-cheese@hotmail.com> wrote in message
news:1165116776.575952.37510@16g2000cwy.googlegroups.com...

```
>
> Slow Code wrote:
> > Danny Richardson <n_group@k6mhe.com> wrote in
> > news:tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com:
> >
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>
> > With the anticipation that ham radio is going
> > to get dumbed down again real soon, the dumb-it-downers
>
> It got "dumbed-down" when a license was issued to you.
>
> BTW, what is your call?
>
What is YOUR call, Billy? Which part of Ohio do you live in? Cincinnati
maybe?




From -8522149269654336840
X-Google-Thread: fcc6e,9770b54fa0752b0f
X-Google-Thread: fc2a5,8dffcadd3cfb0f1
X-Google-Thread: 107ada,8dffcadd3cfb0f1
X-Google-Thread: 10bf43,8dffcadd3cfb0f1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.ra
dio.amateur.policy
Subject: Re: Guide Lines for this news group
```

```
Date: Sat, 02 Dec 2006 23:01:51 -0500
Message-ID: <gvi4n25epo22b8c4jt50mcvksmlmj7n9fp@4ax.com>
References: <YHhch.49776$4Z1.24675@newsfe09.phx>
<pve3n21b5p2no0et7ucgrfihn9iccen58g@4ax.com>
<tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com>
<1Zoch.6172$tM1.5232@newsread1.news.pas.earthlink.net>
<1165116776.575952.37510@16g2000cwy.googlegroups.com>
<gq6nq.ubo.19.1@news.alt.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 71
NNTP-Posting-Date: 03 Dec 2006 03:07:14 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:22385
rec.radio.amateur.homebrew:8074 rec.radio.amateur.misc:26730
rec.radio.amateur.policy:56629

On Sat, 2 Dec 2006 22:44:24 -0500, "A. G. Bell" <hello?@marksakook>
wrote:

>
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>news:1165116776.575952.37510@16g2000cwy.googlegroups.com...
>>
>> Slow Code wrote:
>> > Danny Richardson <n_group@k6mhe.com> wrote in
>> > news:tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com:
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>> >
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>> No you don't. You're one of the foul-mouthed off-topic posters that
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>> > With the anticipation that ham radio is going
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>>
>> It got "dumbed-down" when a license was issued to you.
>>
>> BTW, what is your call?
>>
>What is YOUR call, Billy? Which part of Ohio do you live in? Cincinnati
>maybe?

BB's call is well know and esily located

My and My name are at the the top of the Page

your call if any and Slow Code's call are something you are rightly
ashamed to post
>
>
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -5670250332004188117
X-Google-Thread: fcc6e,acc6225a4b60ce92
X-Google-Thread: 108122,a7963c4f8bc06da4
X-Google-Thread: fc2a5,acc6225a4b60ce92
X-Google-Thread: 10bf43,acc6225a4b60ce92
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail

NNTP-Posting-Date: Sat, 02 Dec 2006 22:46:56 -0600
Date: Sun, 03 Dec 2006 04:46:56 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: Classic Computer for a Ham Shack
References: <1164727510.256694.183240@h54g2000cwb.googlegroups.com> <VYoch.6166$tM1.86@newsread1.news.pas.earthlink.net>
In-Reply-To: <VYoch.6166$tM1.86@newsread1.news.pas.earthlink.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <V4SdnbQmHK5dy-_YnZ2dnUVZ_vqdnZ2d@bright.net>
Lines: 68
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-kbVH9iZf8163EllA4iwkX1DY6R7l9XE8jM0wuqzqRAXW8712L/ASnyZXGuWOhj0+fJ727pRHZpI7/of!pVp1L2QrRs6IQGlP2OM6AHG0/dQSuNmlm9KuoR8pjHwwpF9gCLzkLsQlGv9hUjQLvlVS7XNS2Ei7!nmT9kyItZw==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.antenna:22391 rec.radio.amateur.equipment:7397 rec.radio.amateur.homebrew:8075 rec.radio.amateur.policy:56638

I second that! The VIC-20 is awesome (and easy to write machine language programs for it). My first ham use for the VIC-20 was a CW keyer program. I still have two VIC-20s and a C-64...

Scott
N0EDV

Slow Code wrote:

> "Alex" <samalex@gmail.com> wrote in
> news:1164727510.256694.183240@h54g2000cwb.googlegroups.com:
>
>
>>Hey Guys,
>>
>>I'm a new ham radio operator, but I've been working with computers for
>>most of my life. I'm now in the process of setting-up my first 'ham
>>shack', and instead of going with the latest and greatest, I hope to
>>employee several classic computers to help me along. I have quite a
>>collection in my closet I plan on pulling out, but I'd like opinions of
>>others on what they would use in such a situation.

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>>First, I do want to connect my radio to the computer, and many of the
>>technologies used by ham radio operators, like slow scan TV, packet
>>radio, etc, can be used on most of the classic computers in some form
>>or fashion. This I don't think I'll have a problem, no matter which
>>systemI go with.
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>>One of the main things I do want to do is have the computer on my home
>>network. I don't need a web browser or even a GUI interface... the
>>main thing I would really need is Telnet and FTP. I also want
>>something with a word processor and spreadsheet program -- even
>>Visicalc would be nice to use.
>>
>>And finally I want something fun.. which is the entire point of this
>>venture :) I know some older computers still have huge repositories of
>>software online, and whether it's a game or neat utility, I'd love to
>>setup a classic computer I can really use and have fun with while in my
>>'ham shack'.
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>>Here's a list of computers I have around me now:
>>Tandy Color Computer 2
>>Tandy Color Computer 3 (128K model)
>>Commodore Amiga 500
>>Apple II (original, not PLUS)
>>Mac Classic
>>
>>And though I don't currently own one, I'm looking at getting a
>>Commodore 128 as well, either from a friend of possibly from ebay.
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>>Anyway, just curious what others would choose if you had to pick a
>>computer or even a couple of older computers to use again. Also if
>>there's any ham operators out there with experience with older systems,
>>I'd love some feedback!
>>
>>Take care, and thanks in advance for any ideas.
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>>Alex
>
>
>
> Hi Alex, You sound like a brand new no-code Tech. Welcome to ham radio.
>
> All those computers you mentioned will work fine, but if you really want
> to do any serious computer work you're going to want to invest in a Vic
> 20, or a TI-99, or a Commodore 64. Power users swear by'em.
>
> SC

From 1662826272093521889
X-Google-Thread: fc2a5,a0c4cea1f56d214a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit

```
Path: g2news2.google.com!news1.google.com!news.germany.com!multikabel.net!
feed20.multikabel.net!news.tele.dk!news.tele.dk!small.news.tele.dk!
feed118.news.tele.dk!not-for-mail
From: "Claus" <a@a.dk>
Newsgroups: rec.radio.amateur.homebrew
References: <nQFbh.1347$eb5.349@newsreading01.news.tds.net>
Subject: Re: Where to purchase Fair-Rite toroid?
Date: Sun, 3 Dec 2006 07:31:53 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Lines: 9
Message-ID: <45726f5a$0$20279$edfadb0f@dread16.news.tele.dk>
Organization: TDC Totalloesninger
NNTP-Posting-Host: 83.88.126.81
X-Trace: 1165127515 dread16.news.tele.dk 20279 83.88.126.81:26331
X-Complaints-To: abuse@post.tele.dk
Xref: g2news2.google.com rec.radio.amateur.homebrew:8076
```

Hi all..
when i need toroids i use
www.kitsandparts.com
great price and fast delivery
and he is fast if you should need an answer for
somthing..
vy 73 de oz1lqb

```
From 8252629412140828897
X-Google-Thread: fcc6e,acc6225a4b60ce92
X-Google-Thread: 108122,a7963c4f8bc06da4
X-Google-Thread: fc2a5,acc6225a4b60ce92
X-Google-Thread: 10bf43,acc6225a4b60ce92
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.maxwell.syr.edu!sn-xt-sjc-04!sn-xt-
sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "David G. Nagel" <nagel@core.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy
Subject: Re: Classic Computer for a Ham Shack
Date: Sun, 03 Dec 2006 10:48:14 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12n5vug58gbrg57@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
```

References: <1164727510.256694.183240@h54g2000cwb.googlegroups.com>
<VYoch.6166$tM1.86@newsread1.news.pas.earthlink.net> <V4SdnbQmHK5dy-_YnZ2dnUVZ_vqdnZ2d@bright.net>
In-Reply-To: <V4SdnbQmHK5dy-_YnZ2dnUVZ_vqdnZ2d@bright.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 72
Xref: g2news2.google.com rec.radio.amateur.antenna:22422
rec.radio.amateur.equipment:7399 rec.radio.amateur.homebrew:8077
rec.radio.amateur.policy:56654

What you really need is an Altair.

Dave N

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>>
>>
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From 8735332371818179501
X-Google-Thread: fcc6e,9770b54fa0752b0f
X-Google-Thread: fc2a5,8dffcadd3cfb0f1
X-Google-Thread: 107ada,8dffcadd3cfb0f1
X-Google-Thread: 10bf43,8dffcadd3cfb0f1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!16g2000cwy.googlegroups.com!not-for-mail
From: hot-ham-and-cheese@hotmail.com
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: Guide Lines for this news group
Date: 3 Dec 2006 09:00:08 -0800
Organization: http://groups.google.com
Lines: 74
Message-ID: <1165165208.082088.45350@16g2000cwy.googlegroups.com>
References: <YHhch.49776$4Z1.24675@newsfe09.phx>
   <pve3n21b5p2no0et7ucgrfihn9iccen58g@4ax.com>

```
   <tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com>
   <1Zoch.6172$tM1.5232@newsread1.news.pas.earthlink.net>
   <1165116776.575952.37510@16g2000cwy.googlegroups.com>
   <gq6nq.ubo.19.1@news.alt.net>
   <gvi4n25epo22b8c4jt50mcvksmlmj7n9fp@4ax.com>
NNTP-Posting-Host: 4.225.97.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165165214 12251 127.0.0.1 (3 Dec 2006 17:00:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 3 Dec 2006 17:00:14 +0000 (UTC)
In-Reply-To: <gvi4n25epo22b8c4jt50mcvksmlmj7n9fp@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 16g2000cwy.googlegroups.com; posting-host=4.225.97.1;
   posting-account=mMyuWQ0AAAANPpX1wK2NRuuQfAjm_kIo
Xref: g2news2.google.com rec.radio.amateur.antenna:22423
rec.radio.amateur.homebrew:8078 rec.radio.amateur.misc:26743
rec.radio.amateur.policy:56656


Mark@kb9rqz.aprs wrote:
> On Sat, 2 Dec 2006 22:44:24 -0500, "A. G. Bell" <hello?@marksakook>
> wrote:
>
> >
> ><hot-ham-and-cheese@hotmail.com> wrote in message
> >news:1165116776.575952.37510@16g2000cwy.googlegroups.com...
> >>
> >> Slow Code wrote:
> >> > Danny Richardson <n_group@k6mhe.com> wrote in
> >> > news:tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com:
> >> >
> >> > > On Sat, 02 Dec 2006 09:48:44 -0800, Bill Turner <noway@nowhow.com>
> >> > > wrote:
> >> > >
> >> > >>ORIGINAL MESSAGE:
> >> > >>
> >> > >>On Sat, 2 Dec 2006 08:19:07 -0800, "Caveat Lector" <CL@nowhere.com>
> >> > >> wrote:
> >> > >>
> >> > >>>Maybe this will help(a little) to get rid of the off topic posts
> >> > >>>
> >> > >>>For what this News Group is about and applicable guide lines see URL:
> >> > >>>
> >> > >>>http://www.faqs.org/faqs/radio/personal-intro/
> >> > >>>
> >> > >>>Thanks for reading
> >> > >>>73 CL
> >> > >>>
> >> > >>
> >> > >>------------ REPLY FOLLOWS ------------
> >> > >>
> >> > >>Dream on, CL. These guys already know that and they don't care. It's
> >> > >>been that way forever. It's the Curse of Usenet.
> >> > >>
> >> > >>Bill, W6WRT
> >> > >
> >> > > After years of resisting I'm ready for a moderated antenna group. I've
> >> > > used my kill filter more times in the last three months than I've ever
> >> > > done in the previous ten years.
> >> > >
> >> > > I, for one, am sick and tired of the foul-mouth off topic postings
> >> > > and, if that requires a moderated group to get rid of them it would be
> >> > > a very small price to pay.
> >> > >
> >> > > Danny,
> >> >
> >> >
> >> > I know what you mean Dan.
> >>
> >> No you don't.  You're one of the foul-mouthed off-topic posters that
> >> Dan is complaining about.
> >>
> >> > With the anticipation that ham radio is going
> >> > to get dumbed down again real soon, the dumb-it-downers
> >>
> >> It got "dumbed-down" when a license was issued to you.
> >>
> >> BTW, what is your call?
> >>
> >What is YOUR call, Billy? Which part of Ohio do you live in? Cincinnati
> >maybe?
>
> BB's call is well know and esily located
>
> My and My name are at the the top of the Page
>
> your call if any and Slow Code's call are something you are rightly
> ashamed to post

I wouldn't blame him for being ashamed of it, but for what it's worth,
his call is W4NTI.



From -8155224727985753389
X-Google-Thread: fcc6e,acc6225a4b60ce92
X-Google-Thread: 108122,a7963c4f8bc06da4
X-Google-Thread: fc2a5,acc6225a4b60ce92
X-Google-Thread: 10bf43,acc6225a4b60ce92
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!sn-xt-sjc-03!sn-xt-
```

sjc-06!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: pltrgyst <pltrgyst@spamlessxhost.org>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: Classic Computer for a Ham Shack
Date: Sun, 03 Dec 2006 12:01:54 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <1n06n2l5iote3d7qmmrllpjf999d6b1tco@4ax.com>
Reply-To: pltrgyst@spamlessxhost.org
References: <1164727510.256694.183240@h54g2000cwb.googlegroups.com>
<VYoch.6166$tM1.86@newsread1.news.pas.earthlink.net> <V4SdnbQmHK5dy-_YnZ2dnUVZ_vqdnZ2d@bright.net> <12n5vug58gbrg57@corp.supernews.com>
X-Newsreader: Forte Agent 4.0/32.1071
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 7
Xref: g2news2.google.com rec.radio.amateur.antenna:22424
rec.radio.amateur.equipment:7400 rec.radio.amateur.homebrew:8079
rec.radio.amateur.policy:56657

On Sun, 03 Dec 2006 10:48:14 -0600, "David G. Nagel" <nagel@core.com> wrote:

>What you really need is an Altair.

...or an Imsai, or an Intel SDK. 8;)

-- Larry

From 4696038075933362412
X-Google-Thread: fcc6e,acc6225a4b60ce92
X-Google-Thread: 108122,a7963c4f8bc06da4
X-Google-Thread: fc2a5,acc6225a4b60ce92
X-Google-Thread: 10bf43,acc6225a4b60ce92
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!
newscon06.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr11.news.prodigy.net.POSTED!00eff025!not-for-mail
From: Cecil Moore <mycall@hotmail.com>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: Classic Computer for a Ham Shack
References: <1164727510.256694.183240@h54g2000cwb.googlegroups.com>
<VYoch.6166$tM1.86@newsread1.news.pas.earthlink.net> <V4SdnbQmHK5dy-_YnZ2dnUVZ_vqdnZ2d@bright.net> <12n5vug58gbrg57@corp.supernews.com>

```
In-Reply-To: <12n5vug58gbrg57@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 6
Message-ID: <WuDch.907$hI.279@newssvr11.news.prodigy.net>
NNTP-Posting-Host: 70.252.166.164
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr11.news.prodigy.net 1165165622 ST000 70.252.166.164 (Sun, 03 Dec
2006 12:07:02 EST)
NNTP-Posting-Date: Sun, 03 Dec 2006 12:07:02 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
TSU[@IONBJC[BZH[N[O@_WH@YR_B@EXLLBWLOOAFMAVNDQUBLNTC@AWZWDXZXQ[K\FFSKCVM@F_N_DOBWV
WG__LG@VVOIPLIGX\
\BU_B@\P\PFX\B[APHTWAHDCKJF^NHD[YJAZMCY_CWG[SX\Y]^KC\HSZRWSWKGAY_PC[BQ[BXAS\F\
\@DMTLFZFUE@\VL
Date: Sun, 03 Dec 2006 17:07:02 GMT
Xref: g2news2.google.com rec.radio.amateur.antenna:22427
rec.radio.amateur.equipment:7401 rec.radio.amateur.homebrew:8080
rec.radio.amateur.policy:56660
```

David G. Nagel wrote:

> What you really need is an Altair.

An IBM-650 would probably do the job.

--

73, Cecil http://www.w5dxp.com

```
From -5367255382462794179
X-Google-Thread: fcc6e,acc6225a4b60ce92
X-Google-Thread: 108122,a7963c4f8bc06da4
X-Google-Thread: fc2a5,acc6225a4b60ce92
X-Google-Thread: 10bf43,acc6225a4b60ce92
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 03 Dec 2006 11:49:47 -0600
Date: Sun, 03 Dec 2006 17:49:47 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy
Subject: Re: Classic Computer for a Ham Shack
References: <1164727510.256694.183240@h54g2000cwb.googlegroups.com>
<VYoch.6166$tM1.86@newsread1.news.pas.earthlink.net> <V4SdnbQmHK5dy-
_YnZ2dnUVZ_vqdnZ2d@bright.net> <12n5vug58gbrg57@corp.supernews.com>
```

```
<1n06n2l5iote3d7qmmrllpjf999d6b1tco@4ax.com>
In-Reply-To: <1n06n2l5iote3d7qmmrllpjf999d6b1tco@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Zv-dnSL7W9Smk-7YnZ2dnUVZ_uqdnZ2d@bright.net>
Lines: 17
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-mJ2vlqI46sER/
MsfRNmDkInp4nLQdRDcR6Hd0G9s1wbNvnzHwn+AmXYX8tDBXP2bZbX21w6PYyKSAdQ!
MjCTUF62oKrV5qV0Ypx6FGcJHiGsFZCCsY5uVrUo/pjVTDmwJKmqjW2xY06910L4bGogW++PiUq0!
lkeCnqqk7Q==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.antenna:22440
rec.radio.amateur.equipment:7402 rec.radio.amateur.homebrew:8081
rec.radio.amateur.policy:56669
```

Yes, forgot about the SDK-85. Used that in tech school way back in 1981. That was a smoking little bare-bones computer system...

Scott

pltrgyst wrote:

```
> On Sun, 03 Dec 2006 10:48:14 -0600, "David G. Nagel" <nagel@core.com> wrote:
>
>
>>What you really need is an Altair.
>
>
> ...or an Imsai, or an Intel SDK. 8;)
>
> -- Larry
```

```
From -1550007738857476837
X-Google-Thread: 108122,a7963c4f8bc06da4
X-Google-Thread: fc2a5,acc6225a4b60ce92
X-Google-Thread: 10bf43,acc6225a4b60ce92
X-Google-Thread: fcc6e,acc6225a4b60ce92
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,gidfcc6e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 03 Dec 2006 12:08:11 -0600
From: "Count Floyd" <CountFloyd@MonsterChillerHorrorTheater>
Organization: SCTV
```

Message-ID: <g40vCXBzNU8x-pn2-zRdCZdWrUQre@localhost>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.amateur.antenna
Subject: Re: Classic Computer for a Ham Shack
References: <1164727510.256694.183240@h54g2000cwb.googlegroups.com>
<VYoch.6166$tM1.86@newsread1.news.pas.earthlink.net> <V4SdnbQmHK5dy-_YnZ2dnUVZ_vqdnZ2d@bright.net> <12n5vug58gbrg57@corp.supernews.com>
<WuDch.907$hI.279@newssvr11.news.prodigy.net>
User-Agent: ProNews/2 V1.58.cp116
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 8bit
Date: Sun, 03 Dec 2006 12:08:11 -0600
Lines: 12
NNTP-Posting-Host: 69.163.229.220
X-Trace: sv3-WXRPCB8wK5ZjmUdzV1H/
AXnDO5fQCsjnSt0Y83NWwEQWxKGKCq3l4lZtlT2/65clQfDDOVW8p1cT29F!
kmPhwbuEiN6tpay2tWbSFBP4JlQCjmdY4MAt6GAKNaU3zXw1APZoi61r9qKNPkfeTXVjDPjJ6LM4!
18K4mYZKxl1zeCCQX1Q/fS0=
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.equipment:7403
rec.radio.amateur.homebrew:8082 rec.radio.amateur.policy:56673
rec.radio.amateur.antenna:22443

On Sun, 3 Dec 2006 17:07:02 UTC, Cecil Moore <mycall@hotmail.com>
wrote:

> David G. Nagel wrote:
> > What you really need is an Altair.
>
> An IBM-650 would probably do the job.

Any IBM PS/2 model would be perfect. They can be had for next to
nothing and are well-nigh indestructible.

--
"What do you mean there's no movie?"

From -3426860724142570099
X-Google-Thread: fcc6e,9770b54fa0752b0f
X-Google-Thread: fc2a5,8dffcadd3cfb0f1
X-Google-Thread: 107ada,8dffcadd3cfb0f1
X-Google-Thread: 10bf43,8dffcadd3cfb0f1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail

From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: Guide Lines for this news group
Date: Sun, 03 Dec 2006 14:15:30 -0500
Message-ID: <lf86n2tlbpllc55djdbac0jcrn8bk9o4o2@4ax.com>
References: <YHhch.49776$4Z1.24675@newsfe09.phx>
<pve3n21b5p2no0et7ucgrfihn9iccen58g@4ax.com>
<tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com>
<1Zoch.6172$tM1.5232@newsread1.news.pas.earthlink.net>
<1165116776.575952.37510@16g2000cwy.googlegroups.com>
<gq6nq.ubo.19.1@news.alt.net> <gvi4n25epo22b8c4jt50mcvksmlmj7n9fp@4ax.com>
<1165165208.082088.45350@16g2000cwy.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 83
NNTP-Posting-Date: 03 Dec 2006 18:20:51 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:22451
rec.radio.amateur.homebrew:8083 rec.radio.amateur.misc:26757
rec.radio.amateur.policy:56683

On 3 Dec 2006 09:00:08 -0800, hot-ham-and-cheese@hotmail.com wrote:

>
>Mark@kb9rqz.aprs wrote:
>> On Sat, 2 Dec 2006 22:44:24 -0500, "A. G. Bell" <hello?@marksakook>
>> wrote:
>>
>> >
>> ><hot-ham-and-cheese@hotmail.com> wrote in message
>> >news:1165116776.575952.37510@16g2000cwy.googlegroups.com...
>> >>
>> >> Slow Code wrote:
>> >> > Danny Richardson <n_group@k6mhe.com> wrote in
>> >> > news:tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com:
>> >> >
>> >> > > On Sat, 02 Dec 2006 09:48:44 -0800, Bill Turner <noway@nowhow.com>
>> >> > > wrote:
>> >> > >
>> >> > >>ORIGINAL MESSAGE:
>> >> > >>
>> >> > >>On Sat, 2 Dec 2006 08:19:07 -0800, "Caveat Lector" <CL@nowhere.com>
>> >> > >> wrote:
>> >> > >>
>> >> > >>>Maybe this will help(a little) to get rid of the off topic posts
>> >> > >>>
>> >> > >>>For what this News Group is about and applicable guide lines see URL:
>> >> > >>>
>> >> > >>>http://www.faqs.org/faqs/radio/personal-intro/

>> >> > >>>
>> >> > >>>Thanks for reading
>> >> > >>>73 CL
>> >> > >>>
>> >> > >>
>> >> > >>------------ REPLY FOLLOWS ------------
>> >> > >>
>> >> > >>Dream on, CL. These guys already know that and they don't care. It's
>> >> > >>been that way forever. It's the Curse of Usenet.
>> >> > >>
>> >> > >>Bill, W6WRT
>> >> > >
>> >> > > After years of resisting I'm ready for a moderated antenna group. I've
>> >> > > used my kill filter more times in the last three months than I've ever
>> >> > > done in the previous ten years.
>> >> > >
>> >> > > I, for one, am sick and tired of the foul-mouth off topic postings
>> >> > > and, if that requires a moderated group to get rid of them it would be
>> >> > > a very small price to pay.
>> >> > >
>> >> > > Danny,
>> >> >
>> >> >
>> >> > I know what you mean Dan.
>> >>
>> >> No you don't. You're one of the foul-mouthed off-topic posters that
>> >> Dan is complaining about.
>> >>
>> >> > With the anticipation that ham radio is going
>> >> > to get dumbed down again real soon, the dumb-it-downers
>> >>
>> >> It got "dumbed-down" when a license was issued to you.
>> >>
>> >> BTW, what is your call?
>> >>
>> >What is YOUR call, Billy? Which part of Ohio do you live in? Cincinnati
>> >maybe?
>>
>> BB's call is well know and esily located
>>
>> My and My name are at the the top of the Page
>>
>> your call if any and Slow Code's call are something you are rightly
>> ashamed to post
>
>I wouldn't blame him for being ashamed of it, but for what it's worth,
>his call is W4NTI.

I don't blame him either really

after all going outright annymouse as opposed to efort to divert spam
to dead ends, is the wisest thing the ProCoders have been trying in

years
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From 5615849522041463197
X-Google-Thread: fc2a5,acc6225a4b60ce92
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe19.lga.POSTED!53ab2750!not-for-mail
From: Sam Morgan <ndahouse@cox.net>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Classic Computer for a Ham Shack
References: <1164727510.256694.183240@h54g2000cwb.googlegroups.com>
<VYoch.6166$tM1.86@newsread1.news.pas.earthlink.net>
In-Reply-To: <VYoch.6166$tM1.86@newsread1.news.pas.earthlink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 49
Message-ID: <aLKch.2554$Rj.2394@newsfe19.lga>
Date: Sun, 03 Dec 2006 19:22:32 -0600
NNTP-Posting-Host: 70.185.138.222
X-Complaints-To: admin@cox.net
X-Trace: newsfe19.lga 1165195334 70.185.138.222 (Sun, 03 Dec 2006 18:22:14 MST)
NNTP-Posting-Date: Sun, 03 Dec 2006 18:22:14 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:8084

> "Alex" <samalex@gmail.com> wrote in
> news:1164727510.256694.183240@h54g2000cwb.googlegroups.com:
>
>> Hey Guys,
>>
>> I'm a new ham radio operator, but I've been working with computers for
>> most of my life. I'm now in the process of setting-up my first 'ham
>> shack', and instead of going with the latest and greatest, I hope to
>> employee several classic computers to help me along. I have quite a
>> collection in my closet I plan on pulling out, but I'd like opinions of
>> others on what they would use in such a situation.
>>
>> First, I do want to connect my radio to the computer, and many of the
>> technologies used by ham radio operators, like slow scan TV, packet
>> radio, etc, can be used on most of the classic computers in some form
>> or fashion. This I don't think I'll have a problem, no matter which
>> systemI go with.
>>
>> One of the main things I do want to do is have the computer on my home

>> network. I don't need a web browser or even a GUI interface... the
>> main thing I would really need is Telnet and FTP. I also want
>> something with a word processor and spreadsheet program -- even
>> Visicalc would be nice to use.
>>
>> And finally I want something fun.. which is the entire point of this
>> venture :) I know some older computers still have huge repositories of
>> software online, and whether it's a game or neat utility, I'd love to
>> setup a classic computer I can really use and have fun with while in my
>> 'ham shack'.
>>
>> Here's a list of computers I have around me now:
>> Tandy Color Computer 2
>> Tandy Color Computer 3 (128K model)
>> Commodore Amiga 500
>> Apple II (original, not PLUS)
>> Mac Classic
>>
>> And though I don't currently own one, I'm looking at getting a
>> Commodore 128 as well, either from a friend of possibly from ebay.
>>
>> Anyway, just curious what others would choose if you had to pick a
>> computer or even a couple of older computers to use again. Also if
>> there's any ham operators out there with experience with older systems,
>> I'd love some feedback!
>>
>> Take care, and thanks in advance for any ideas.
>>
Be very careful with those C=64's I started with one in 1990 and look what
happened to me: http://members.cox.net/linux2/toyroom.html

From 4118085861965006831
X-Google-Thread: 108122,f99a44182f2716fa,start
X-Google-Thread: fc2a5,f99a44182f2716fa,start
X-Google-Thread: f5845,f99a44182f2716fa,start
X-Google-Attributes: gid108122,gidfc2a5,gidf5845,public
X-Google-Language: GERMAN,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.nventure.com!
news.nventure.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 03 Dec 2006 20:29:22 -0600
From: KC7ZWG <kc7zwg@kc7zwg.org>
Subject: FYI: New Radio Site!
Newsgroups: ncf.sigs.radio-
tv.shortwave,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,sachsnet.hobby
.amateur+cb-funk,su.org.ham-radio,tamu.hamradio.bulletins,tnn.radio.amateur
Followup-To: ncf.sigs.radio-tv.shortwave
Reply-To: kc7zwg@kc7zwg.com
Date: Sun, 03 Dec 2006 18:28:55 -0800
Organization: kc7zwg.org
User-Agent: KNode/0.10.4
MIME-Version: 1.0

```
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <07udnWt98cefFe7YnZ2dnUVZ_rOdnZ2d@nventure.com>
Lines: 29
NNTP-Posting-Host: 131.191.21.31
X-Trace: sv3-GFaGSdeJcGwKemCW3RKk7C0MZW/BvGk//
c2WQIDB5HtCMhC+wGnMt3pMieDlEVUENkjwtYSsXr6BStX!
HtJ49xjzbTWm0Gnc1K6AnbN4QmNiELTmBHXrK3c2KAIWbGhzYkwHcWDd2HnuOxQw8zLdetu5ZO4B!
3VWqjDKia4Sq77Ab5dxaDBUOZ6aClTs=
X-Complaints-To: abuse@nventure.com
X-DMCA-Complaints-To: abuse@nventure.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.equipment:7420
rec.radio.amateur.homebrew:8085 tnn.radio.amateur:13
```

http://kc7zwg.org/

--
Martin Johnson - KC7ZWG
kc7zwg@kc7zwg.com - http://www.kc7zwg.com

```
From -3764001588585694919
X-Google-Thread: fc2a5,acc6225a4b60ce92
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!postnews.google.com!j44g2000cwa.googlegroups.com!not-for-mail
From: "Alex" <samalex@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Classic Computer for a Ham Shack
Date: 4 Dec 2006 13:36:21 -0800
Organization: http://groups.google.com
Lines: 28
Message-ID: <1165268181.290218.307850@j44g2000cwa.googlegroups.com>
References: <1164727510.256694.183240@h54g2000cwb.googlegroups.com>
   <VYoch.6166$tM1.86@newsread1.news.pas.earthlink.net>
   <aLKch.2554$Rj.2394@newsfe19.lga>
NNTP-Posting-Host: 65.172.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165268186 10429 127.0.0.1 (4 Dec 2006 21:36:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 4 Dec 2006 21:36:26 +0000 (UTC)
In-Reply-To: <aLKch.2554$Rj.2394@newsfe19.lga>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1) Gecko/20061010 Firefox/2.0,gzip(gfe),gzip(gfe)
X-HTTP-Via: 1.1 HBMCFTP:8080 (Squid/2.4.STABLE6)
Complaints-To: groups-abuse@google.com
Injection-Info: j44g2000cwa.googlegroups.com; posting-host=65.172.176.71;
   posting-account=PkcClwwAAAC0eY1Ot-MeZ6ruZNHF8oqb
Xref: g2news2.google.com rec.radio.amateur.homebrew:8086

Sam Morgan wrote:
> Be very careful with those C=64's I started with one in 1990 and look what
> happened to me: http://members.cox.net/linux2/toyroom.html

Hi Sam,

Actually I love your setup! When I as single I had an office scarily similar to what you have now, and we even have alot of the same books! I even have those two boxes of Suse 7.2 and 8.1 on my shelves, plus OS/2, though mine's 3.0 Warp (still shrink wrapped btw).

When my wife and I married last year and she moved in, our offices got consolidated and most of my books got put in the closet. It's fine for the most part as most of the books I don't use, but it's still neat to walk into an office and have floor to ceiling computer books :) Always something on hand for those late nights when you can't sleep. hehe

A friend of mine has a C64 he's not using, and he plans on sending it to me. Also another guy I met on QRZ is sending me his old cable he used with the Tandy TRS-80 Coco 3 to do packet radio. It goes from the RS-232 port to a TNC, so maybe I can get something going there.

So tons of fun stuff on the horizon!

Take care, and thanks for the pictures! I love'em!

Alex

```
From -5872517395605374294
X-Google-Thread: fcc6e,acc6225a4b60ce92
X-Google-Thread: 108122,a7963c4f8bc06da4
X-Google-Thread: fc2a5,acc6225a4b60ce92
X-Google-Thread: 10bf43,acc6225a4b60ce92
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!80g2000cwy.googlegroups.com!not-for-
mail
From: "Alex" <samalex@gmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy
Subject: Re: Classic Computer for a Ham Shack
Date: 4 Dec 2006 13:38:58 -0800
Organization: http://groups.google.com
Lines: 26
Message-ID: <1165268338.115791.307510@80g2000cwy.googlegroups.com>
References: <1164727510.256694.183240@h54g2000cwb.googlegroups.com>
   <VYoch.6166$tM1.86@newsread1.news.pas.earthlink.net>
NNTP-Posting-Host: 65.172.176.71
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165268344 31152 127.0.0.1 (4 Dec 2006 21:39:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 4 Dec 2006 21:39:04 +0000 (UTC)
In-Reply-To: <VYoch.6166$tM1.86@newsread1.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1) Gecko/
20061010 Firefox/2.0,gzip(gfe),gzip(gfe)
X-HTTP-Via: 1.1 HBMCFTP:8080 (Squid/2.4.STABLE6)
Complaints-To: groups-abuse@google.com
Injection-Info: 80g2000cwy.googlegroups.com; posting-host=65.172.176.71;
   posting-account=PkcClwwAAAC0eY1Ot-MeZ6ruZNHF8oqb
Xref: g2news2.google.com rec.radio.amateur.antenna:22520
rec.radio.amateur.equipment:7437 rec.radio.amateur.homebrew:8087
rec.radio.amateur.policy:56735
```

Slow Code wrote:

> Hi Alex, You sound like a brand new no-code Tech. Welcome to ham radio.
>
> All those computers you mentioned will work fine, but if you really want
> to do any serious computer work you're going to want to invest in a Vic
> 20, or a TI-99, or a Commodore 64. Power users swear by'em.
>
> SC

Hi SC,

Yup, I got my tech ticket a few months ago, and I'm now working on learning code and studying for the general ticket. I hope maybe January or February, but not until I can get my ham nook setup in the garage plus move my radio from the car to the garage so I can actually focus on the radio :) It's hard learning how to ragchew while on the interstate. hehe

I do have a C64 on the way, and that plus what I have now should be enough to get me going. Too much fun!

Take care,

Alex

```
From 2166508897018484614
X-Google-Thread: fc2a5,4863b2cd0fe395b,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!73g2000cwn.googlegroups.com!not-for-mail
From: tolga@tolgasenel.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Need a new website?
Date: 4 Dec 2006 17:26:53 -0800
Organization: http://groups.google.com
Lines: 18
Message-ID: <1165282013.357719.172360@73g2000cwn.googlegroups.com>
NNTP-Posting-Host: 72.186.247.46
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1165282019 12774 127.0.0.1 (5 Dec 2006 01:26:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 5 Dec 2006 01:26:59 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 73g2000cwn.googlegroups.com; posting-host=72.186.247.46;
   posting-account=W8FbGw0AAAB6JzbX4LLoLa1Li5ny474r
Xref: g2news2.google.com rec.radio.amateur.homebrew:8088
```

Hello friends,

If you need a new website, we are offering the best and most affordable services ever. Our new Website Builder tool will allow you to create custom designed, professional Flash websites in matter of hours...Check out our rates, as little as 12.95$ a month, on our website. No computer knowledge or experience is neccessary. No extra charge for domain registration, web hosting or computer support. Check out our packages starting at 12.95/month today!

http://www.MyBestDealEver.com (My Best Deal Ever.com)

thank you,

info@MyBestDealEver.com

(813) 317-6226

From -41966487278063140
X-Google-Thread: fc2a5,52736df0f90a82cf,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!84ef5383!not-for-mail
From: "Brian" <kb9bvn@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Free Shipping
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <bB4dh.7527$1s6.1806@newsread2.news.pas.earthlink.net>
Date: Tue, 05 Dec 2006 02:13:27 GMT
NNTP-Posting-Host: 76.2.196.129
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1165284807 76.2.196.129 (Mon, 04 Dec
2006 18:13:27 PST)
NNTP-Posting-Date: Mon, 04 Dec 2006 18:13:27 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8089

Free shipping until January!

http://www.hamradparts.com

73 de KB9BVN

From -4288813308988430968
X-Google-Thread: fc2a5,6f353acf9eaf8619,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!bigfeed2.bellsouth.net!

```
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews3.bellsouth.net.POSTED!db98089e!not-for-mail
Message-ID: <4575B0F8.D16F80D6@carlos.net>
From: carlos <carlos_not_carla@carlos.net>
X-Mailer: Mozilla 4.79 [en] (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wealth Online Now a Reality !
References: <ekup4v$h13$630@ctb-nnrp2.saix.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 1
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcbobpolkejdndplgjkaoahiomlmgfocoogcnj
fonlhjpfmddgcanknjfcggagakcgdaihbbjoldfngcmehnjeeimcomaiaebmoconlccicdnhdddkbb
NNTP-Posting-Date: Tue, 05 Dec 2006 12:48:38 EST
Organization: BellSouth Internet Group
Date: Tue, 05 Dec 2006 12:48:40 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8090
```

z

```
From 9108213188352409994
X-Google-Thread: fc2a5,4863b2cd0fe395b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need a new website?
Date: Tue, 05 Dec 2006 10:18:11 -0800
Message-ID: <cudbn2do3qh5j3gvnvu5sntufjmiuvjps3@4ax.com>
References: <1165282013.357719.172360@73g2000cwn.googlegroups.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node98-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1165329832 66.52.61.98 (5 Dec 2006 09:43:52 -0500)
Lines: 8
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.98
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed.hal-mli.net!feeder1.hal-mli.net!news.alt.net!
newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8091
```

Please folks, do not reply to these off topic posts.

If these idiots never get any replies, they will eventually give up and go away.

Thanks,

Bill, W6WRT

From -8289982770558524675
X-Google-Thread: fc2a5,6f353acf9eaf8619
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Wealth Online Now a Reality !
Date: Tue, 05 Dec 2006 10:18:47 -0800
Message-ID: <ivdbn2hsjqu4asnn5tc95srh6v11a6le1c@4ax.com>
References: <ekup4v$h13$630@ctb-nnrp2.saix.net> <4575B0F8.D16F80D6@carlos.net>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node98-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1165329867 66.52.61.98 (5 Dec 2006 09:44:27 -0500)
Lines: 8
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.98
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed.hal-mli.net!feeder1.hal-mli.net!news.alt.net!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8092

Please folks, do not reply to these off topic posts.

If these idiots never get any replies, they will eventually give up
and go away.

Thanks,

Bill, W6WRT

From -3152568927403517372
X-Google-Thread: fc2a5,4863b2cd0fe395b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!16g2000cwy.googlegroups.com!not-for-mail
From: info@tampabn.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need a new website?
Date: 5 Dec 2006 12:11:00 -0800
Organization: http://groups.google.com
Lines: 28

```
Message-ID: <1165349460.346775.74520@16g2000cwy.googlegroups.com>
References: <1165282013.357719.172360@73g2000cwn.googlegroups.com>
   <cudbn2do3qh5j3gvnvu5sntufjmiuvjps3@4ax.com>
NNTP-Posting-Host: 72.186.247.46
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165349473 20561 127.0.0.1 (5 Dec 2006 20:11:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 5 Dec 2006 20:11:13 +0000 (UTC)
In-Reply-To: <cudbn2do3qh5j3gvnvu5sntufjmiuvjps3@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 16g2000cwy.googlegroups.com; posting-host=72.186.247.46;
   posting-account=lpCLUQ0AAACZhiu2Trg2t6jp9WJx8vgV
Xref: g2news2.google.com rec.radio.amateur.homebrew:8093

Bill Turner (whatever that W6WRT means, noone cares i am sure):

The only idiot that we all can see who replied to the original email is
YOU!!  Stop being you please...

I re-read the message below, from the best deal ever etc..., its not
like they are saying hot mommas with live web cameras...they are
selling a product which is legit.  There are 5 million new businesses
in a year in this country alone that dont have a website.  Why dont you
leave your wise comments to yourself..

Do we enjoy seeing unrelated messages in our groups, NO! but just
because YOU wasted a second of your useless time, it does not mean that
you can make remarks like that...just ignore their message and life
goes on...No need to be rude.

Thanks,

Bill Turner wrote:
> Please folks, do not reply to these off topic posts.
>
> If these idiots never get any replies, they will eventually give up
> and go away.
>
> Thanks,
>
> Bill, W6WRT



From 632491193827207153
X-Google-Thread: fc2a5,bb9adf88325b7947,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!16g2000cwy.googlegroups.com!not-for-
```

```
mail
From: "bcdlr" <on30ng@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Need Help - Harris Filter??
Date: 5 Dec 2006 20:33:56 -0800
Organization: http://groups.google.com
Lines: 14
Message-ID: <1165379636.910100.60470@16g2000cwy.googlegroups.com>
NNTP-Posting-Host: 74.135.146.232
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1165379643 1023 127.0.0.1 (6 Dec 2006 04:34:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 6 Dec 2006 04:34:03 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.8)
Gecko/20061025 Firefox/1.5.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 16g2000cwy.googlegroups.com; posting-host=74.135.146.232;
   posting-account=cHaz4A0AAABSvgBXdvZeKRmzV_BI715_
Xref: g2news2.google.com rec.radio.amateur.homebrew:8094

I have a Harris filter in my junk box, or at least I think it is a
Harris filter.
On top of can:
P/N 700-0423-00
FREQ 10.000 MHZ
T136
SN. 6385

Does anybody have any info on this guy?
He is  1-3/8"L x 1"W x 3/4"H (approx.) and has five pins - three on one
end and two on the other. It is totally sealed 'can'
--
Dan KB9JLO




From 3228562737701039117
X-Google-Thread: fcc6e,9770b54fa0752b0f
X-Google-Thread: fc2a5,8dffcadd3cfb0f1
X-Google-Thread: 107ada,8dffcadd3cfb0f1
X-Google-Thread: 10bf43,8dffcadd3cfb0f1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j44g2000cwa.googlegroups.com!not-for-
mail
From: k4yz_01@yahoo.com
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.ra
dio.amateur.policy
Subject: Lookie Who's Querying Others About Their Call.....
Date: 6 Dec 2006 03:40:54 -0800
```

Organization: http://groups.google.com
Lines: 36
Message-ID: <1165405254.606462.247100@j44g2000cwa.googlegroups.com>
References: <YHhch.49776$4Z1.24675@newsfe09.phx>
   <pve3n21b5p2no0et7ucgrfihn9iccen58g@4ax.com>
   <tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com>
   <1Zoch.6172$tM1.5232@newsread1.news.pas.earthlink.net>
   <1165116776.575952.37510@16g2000cwy.googlegroups.com>
NNTP-Posting-Host: 205.188.116.200
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165405260 29737 127.0.0.1 (6 Dec 2006 11:41:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 6 Dec 2006 11:41:00 +0000 (UTC)
In-Reply-To: <1165116776.575952.37510@16g2000cwy.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 Turboweb [dtc-ta121 8.4.1], HTTP/1.1 cache-dtc-ad06.proxy.aol.com[CDBC74C8] (Traffic-Server/6.1.3 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: j44g2000cwa.googlegroups.com; posting-host=205.188.116.200;
   posting-account=Qk-zTg0AAADBXaKvb_MZ41YgmjjGgjfy
Xref: g2news2.google.com rec.radio.amateur.antenna:22643 rec.radio.amateur.homebrew:8095 rec.radio.amateur.misc:26807 rec.radio.amateur.policy:56873

hot-ham-and-cheese@hotmail.com wrote:
> Slow Code wrote:

> > I know what you mean Dan.
>
> No you don't. You're one of the foul-mouthed off-topic posters that
> Dan is complaining about.

I guess he's in good company then, Brain...There's you, Morkie, Lennie, Frankie, and Toiddie to keep him warm!

> > With the anticipation that ham radio is going
> > to get dumbed down again real soon, the dumb-it-downers
>
> It got "dumbed-down" when a license was issued to you.

Pot / Kettle / Black

> BTW, what is your call?

What does it matter, Brain?

You don't sign YOUR call here!

You unceremoniously dropped your "billybeeper" personna for "hot-ham-and-cheese", trying to hide your identity until your ego overcame situational awareness and you did sign a post.

I can't help but wonder which one of the other annonnies may be you right now...Afterall, that is your MO.

No matter...You'll do it again...You'll let your ego get ahead of your common sense and you'll out yourself again. You always do.

Steve, K4YZ

```
From -4558824241172390485
X-Google-Thread: fc2a5,2885fd5fd58ce162,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!n67g2000cwd.googlegroups.com!not-for-
mail
From: eternalsquire@comcast.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Q of coils made on ceramic form?
Date: 6 Dec 2006 07:57:30 -0800
Organization: http://groups.google.com
Lines: 14
Message-ID: <1165420650.198866.59380@n67g2000cwd.googlegroups.com>
NNTP-Posting-Host: 67.142.130.26
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1165420656 3832 127.0.0.1 (6 Dec 2006 15:57:36 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 6 Dec 2006 15:57:36 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; .NET CLR 2.0.50727; IEMB3; IEMB3),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n67g2000cwd.googlegroups.com; posting-host=67.142.130.26;
   posting-account=RyqjfwwAAADvOapQHMNoJI3nvO5uDrpo
Xref: g2news2.google.com rec.radio.amateur.homebrew:8096
```

All,

I've been hearing how winding coils on discarded plastic pill bottles is not suitable for RF tank circuits due to low Q, and that these would not be safe for tube circuits anyway due to melting point.

I have access to kaolinite clay (white porcelain) and a kiln, and I was wondering if I molded and fired this type of clay for coil forms, what effect on a tank circuit Q this form would have.

Thanks in advance,

The Eternal Squire

```
From -6812822459177625812
X-Google-Thread: fc2a5,4863b2cd0fe395b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need a new website?
Date: Wed, 06 Dec 2006 08:17:28 -0800
Message-ID: <r1rdn257pauhbs4qs1jvrf7jlovkg865i3@4ax.com>
References: <1165282013.357719.172360@73g2000cwn.googlegroups.com>
<cudbn2do3qh5j3gvnvu5sntufjmiuvjps3@4ax.com>
<1165349460.346775.74520@16g2000cwy.googlegroups.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node19-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1165408988 66.52.61.19 (6 Dec 2006 07:43:08 -0500)
Lines: 25
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.19
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.buerger.net!open-
news-network.org!usenet.ath.cx!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:8097

ORIGINAL MESSAGE:

On 5 Dec 2006 12:11:00 -0800, info@tampabn.com wrote:


>Bill Turner (whatever that W6WRT means, noone cares i am sure):
>
>The only idiot that we all can see who replied to the original email is
>YOU!!  Stop being you please...
>
>I re-read the message below, from the best deal ever etc..., its not
>like they are saying hot mommas with live web cameras...they are
>selling a product which is legit.

------------ REPLY FOLLOWS ------------

Are you remotely aware this is a newsgroup for Amateur Radio Operators
who like to build (i.e. homebrew) their own equipment?

If your "legit" product is not related to the homebrewing of radio
equipment, it does not belong here.

That mysterious "W6WRT" is my amateur radio callsign. What's yours?
```

Bill, W6WRT

```
From 367183228635881295
X-Google-Thread: fcc6e,9770b54fa0752b0f
X-Google-Thread: fc2a5,8dffcadd3cfb0f1
X-Google-Thread: 107ada,8dffcadd3cfb0f1
X-Google-Thread: 10bf43,8dffcadd3cfb0f1
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!83.128.0.11.MISMATCH!
news-out1.kabelfoon.nl!newsfeed.kabelfoon.nl!bandi.nntp.kabelfoon.nl!
news2.euro.net!66.150.105.54.MISMATCH!nntpserver.com!zeus.nntpserver.com!
hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.ra
dio.amateur.policy
Subject: cyber vandal at work
Date: Wed, 06 Dec 2006 11:54:19 -0500
Message-ID: <gdtdn25khm60mgi5uh8tmnq2674d7qidp1@4ax.com>
References: <YHhch.49776$4Z1.24675@newsfe09.phx>
<pve3n21b5p2no0et7ucgrfihn9iccen58g@4ax.com>
<tqh3n2h7gjtdevv66fvnmv0be7clnpf019@4ax.com>
<1Zoch.6172$tM1.5232@newsread1.news.pas.earthlink.net>
<1165116776.575952.37510@16g2000cwy.googlegroups.com>
<1165405254.606462.247100@j44g2000cwa.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 12
NNTP-Posting-Date: 06 Dec 2006 15:59:42 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:22665
rec.radio.amateur.homebrew:8098 rec.radio.amateur.misc:26813
rec.radio.amateur.policy:56964
```

On 6 Dec 2006 03:40:54 -0800, k4yz_01@yahoo.com wrote:

>
cyber vandal at work

steve all yu are doing is enaging in cyber vandalism you don't discuss
you do't try to make a papoint anymore

and if you insit on fraudletly altering the atributioan this is all
you get
currnet count of your cyber vadalism attacktoday is 40 and conuting
http://kb9rqz.blogspot.com/

--

Posted via a free Usenet account from http://www.teranews.com

---

From 4807326247746958263
X-Google-Thread: fc2a5,2885fd5fd58ce162
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Q of coils made on ceramic form?
Date: Wed, 6 Dec 2006 09:08:03 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12ndu7k4d99a283@corp.supernews.com>
References: <1165420650.198866.59380@n67g2000cwd.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 12
Xref: g2news2.google.com rec.radio.amateur.homebrew:8099

<eternalsquire@comcast.net> wrote in message
news:1165420650.198866.59380@n67g2000cwd.googlegroups.com...
> I've been hearing how winding coils on discarded plastic pill bottles
> is not suitable for RF tank circuits due to low Q, and that these would
> not be safe for tube circuits anyway due to melting point.

What frequencies are your coils going to be operating at? I'd be really surprised if pill bottles had any significant loss at HF.

You must be talking pretty high power designs if you're able to melt plastic!

From -4783381323240173105
X-Google-Thread: fc2a5,bb9adf88325b7947
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news1.google.com!news.germany.com!newsfeed.cw.net!cw.net!news-FFM2.ecrc.de!news.mediascape.de!zen.net.uk!demorgan.zen.co.uk!feeder.news.heanet.ie!news.indigo.ie!not-for-mail
From: Eamon Skelton <Xnospam@oceanfree.net>
Subject: Re: Need Help - Harris Filter??
Newsgroups: rec.radio.amateur.homebrew
References: <1165379636.910100.60470@16g2000cwy.googlegroups.com>
User-Agent: pan 0.119 (Karma Hunters)
MIME-Version: 1.0

Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 18
Message-ID: <DXDdh.16659$j7.335585@news.indigo.ie>
Date: Wed, 06 Dec 2006 18:26:43 GMT
NNTP-Posting-Host: 86.41.157.171
X-Complaints-To: abuse@eircom.net
X-Trace: news.indigo.ie 1165429603 86.41.157.171 (Wed, 06 Dec 2006 18:26:43 GMT)
NNTP-Posting-Date: Wed, 06 Dec 2006 18:26:43 GMT
Organization: Eircom.Net http://www.eircom.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8100

On Tue, 05 Dec 2006 20:33:56 -0800, bcdlr wrote:

> I have a Harris filter in my junk box, or at least I think it is a
> Harris filter.
> On top of can:
> P/N 700-0423-00
> FREQ 10.000 MHZ
> T136
> SN. 6385

Is it a filter? It sounds more like an oscillator.

73, Ed. EI9GQ.

--
Remove 'X' to reply by e-mail.
linux 2.6.17

From -3361152099924470285
X-Google-Thread: fc2a5,2885fd5fd58ce162
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!
138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-08!sn-ams!sn-feed-ams-03!sn-post-
ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Chris Jones <lugnut808@nospam.yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Q of coils made on ceramic form?
Date: Wed, 06 Dec 2006 20:43:40 +0000
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12neaqmk66lgt1a@corp.supernews.com>
References: <1165420650.198866.59380@n67g2000cwd.googlegroups.com>
User-Agent: KNode/0.7.7
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Complaints-To: abuse@supernews.com
Lines: 30

Xref: g2news2.google.com rec.radio.amateur.homebrew:8101

eternalsquire@comcast.net wrote:

> All,
>
> I've been hearing how winding coils on discarded plastic pill bottles
> is not suitable for RF tank circuits due to low Q, and that these would
> not be safe for tube circuits anyway due to melting point.
>
> I have access to kaolinite clay (white porcelain) and a kiln, and I was
> wondering if I molded and fired this type of clay for coil forms, what
> effect on a tank circuit Q this form would have.
>
> Thanks in advance,
>
> The Eternal Squire

Although the frequency is probably not the same as what you're going to use the coils for, one way to test the loss of an insulator material is to put some in the microwave oven (along with a mug of water to provide a load for the magnetron). If the insulator material gets hot, then it is lossy. Of course you would have to fire the clay before testing it, otherwise the water content would make it get hot anyway.

If the pill bottles are polypropylene or a similar non-polar plastic then they are probably not very lossy, but of course if the current through the wire makes the wire hot by normal I^2*R losses, then the hot wire would melt the plastic. This would only be a concern in a power amplifier or tube circuits as you mentioned.

Chris

From 7551949078108731707
X-Google-Thread: fcc6e,70f039efb3d707bf,start
X-Google-Thread: fc2a5,70f039efb3d707bf,start
X-Google-Thread: 107ada,70f039efb3d707bf,start
X-Google-Thread: 10bf43,436d8a4f092b8069
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: A QRZ Trivia Question That Smegma Radio May Find Educational
From: Slow Code <my.mail@no.spam>
References: <1165392322.781481.219870@j44g2000cwa.googlegroups.com>
<1165422633.729925.259700@79g2000cws.googlegroups.com>
Organization: None

User-Agent: Xnews/5.04.25
Lines: 127
Message-ID: <FzJdh.7332$sf5.980@newsread4.news.pas.earthlink.net>
Date: Thu, 07 Dec 2006 00:50:45 GMT
NNTP-Posting-Host: 4.254.226.238
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1165452645 4.254.226.238 (Wed, 06 Dec 2006 16:50:45 PST)
NNTP-Posting-Date: Wed, 06 Dec 2006 16:50:45 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:22679 rec.radio.amateur.homebrew:8102 rec.radio.amateur.misc:26821 rec.radio.amateur.policy:57012

"KC4UAI" <kc4uai@gmail.com> wrote in news:1165422633.729925.259700@79g2000cws.googlegroups.com:

>
> I for one don't want to loose my ticket. Despite what SC says, I
> worked for that Extra...
>
> -= bob =-

Post restructuring License EXAM

(Simplified test approved by all book and magazine publiher and VE whorehou$e$ who $ay �We need more ham$�)

Please PRINT (that means no squiggly lines)

YOUR NAME (what they call you) ______________________________________

ADDRESS (where you live) ____

BIRTHDATE (when you were born) ________________________________

EXAM

Instructions: Make a circle (one of these round things O) around the letter of the best answer! This is so we know what your answer to the question is!

1. You TALK into a microphone with your _______.

A. Hands
B. Feet
C. Toes
D. Mouth
E. Armpits

2. When you talk into a microphone, you talk into _______.

A. the front
B. the back
C. the top
D. the bottom
E. the wire

3. �HEADPHONES� are worn over the ___________.

A. Knees
B. Eyes
C. Toes
D. Ears
E. Lips

4. What do you do with the AC line cord coming out of a power supply?

A. Hold it in the air to pick up signals
B. Pull on it to start the motor
C. Talk into the plug to get real "skip DX"
D. Hook it to your antenna
E. Insert the plug into a source of power

5. A �two meter� radio is:

A. twice as strong as a one-meter radio
B. two one-meter radios in series
C. a CB with two meters on the front panel
D. a good doorstop
E. yo mama

6. A "ten-foot mast" is how long?

A. Ten feet
B. Ten pounds
C. Two meters
D. Tree-top tall
E. yo mama

7. A �Triband antenna� is made to work on how many bands?

A. 1
B. 2
C. 3
D. 4
E. 10

8. The �Marconi� antenna is named after:

A. Marconi
B. Mantovani
C. macaroni
D. Dean Martin

E. yo mama

9. What colors of DIODES can you buy at a Radio Shack store?

A. Red, blue and black
B. Red, yellow and green
C. Orange and brown
D. I am colorblind so this is a discriminatory question and I should automatically get my license because you have been mean to me.
E. I have no intention of ever using DIODES, so I should get my license for free.

10. What color of SLURPEE can you buy at 7-11?

A. Red, blue and black
B. Red, yellow and green
C. Orange and brown
D. I am colorblind so this is a discriminatory question and I should automatically get my license and free slurpees forever because you have been mean to me.

END OF EXAM.

YOUR SIGNATURE (slap yo tag here)

Scoring:

Get THREE correct and you get an EXTRA!!!!
Get TWO right and you get an ADVANCED!!!!
Get ONE right and you get a GENERAL!!!
Miss them all? Just blow the VE and get a no-code Tech Markie!!!

From -6616250591734451104
X-Google-Thread: fcc6e,70f039efb3d707bf
X-Google-Thread: fc2a5,70f039efb3d707bf
X-Google-Thread: 107ada,70f039efb3d707bf
X-Google-Thread: 10bf43,436d8a4f092b8069
X-Google-Attributes: gidfcc6e,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!newshub.sdsu.edu!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: kook right on time
Date: Wed, 06 Dec 2006 19:53:03 -0500
Message-ID: <jepen2l4g9t4rim762tflm65oro8ssn4dl@4ax.com>
References: <1165392322.781481.219870@j44g2000cwa.googlegroups.com>

```
<1165422633.729925.259700@79g2000cws.googlegroups.com>
<FzJdh.7332$sf5.980@newsread4.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 18
NNTP-Posting-Date: 06 Dec 2006 23:58:29 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:22680
rec.radio.amateur.homebrew:8103 rec.radio.amateur.misc:26822
rec.radio.amateur.policy:57016

On Thu, 07 Dec 2006 00:50:45 GMT, Slow Code <my.mail@no.spam> wrote:

>"KC4UAI" <kc4uai@gmail.com> wrote in
>news:1165422633.729925.259700@79g2000cws.googlegroups.com:
>
>>
>> I for one don't want to loose my ticket.  Despite what SC says, I
>> worked for that Extra...
>>
>> -= bob =-
>
>
>
>Post restructuring License EXAM

kook right on time
can you tell about anything steve?
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From -2976652828495459343
X-Google-Thread: fc2a5,2885fd5fd58ce162
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!
stamper.news.pas.earthlink.net!newsread4.news.pas.earthlink.net.POSTED!6bb7efb4!
not-for-mail
Reply-To: "Richard Knoppow" <dickburk@ix.netcom.com>
From: "Richard Knoppow" <dickburk@ix.netcom.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1165420650.198866.59380@n67g2000cwd.googlegroups.com>
<12neaqmk66lgt1a@corp.supernews.com>
Subject: Re: Q of coils made on ceramic form?
Lines: 61
X-Priority: 3
```

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <aLKdh.7426$sf5.5311@newsread4.news.pas.earthlink.net>
Date: Thu, 07 Dec 2006 02:11:18 GMT
NNTP-Posting-Host: 4.233.122.1
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1165457478 4.233.122.1 (Wed, 06 Dec 2006
18:11:18 PST)
NNTP-Posting-Date: Wed, 06 Dec 2006 18:11:18 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8104

"Chris Jones" <lugnut808@nospam.yahoo.com> wrote in message
news:12neaqmk66lgt1a@corp.supernews.com...
> eternalsquire@comcast.net wrote:
>
>> All,
>>
>> I've been hearing how winding coils on discarded plastic
>> pill bottles
>> is not suitable for RF tank circuits due to low Q, and
>> that these would
>> not be safe for tube circuits anyway due to melting
>> point.
>>
>> I have access to kaolinite clay (white porcelain) and a
>> kiln, and I was
>> wondering if I molded and fired this type of clay for
>> coil forms, what
>> effect on a tank circuit Q this form would have.
>>
>> Thanks in advance,
>>
>> The Eternal Squire
>
> Although the frequency is probably not the same as what
> you're going to use
> the coils for, one way to test the loss of an insulator
> material is to put
> some in the microwave oven (along with a mug of water to
> provide a load for
> the magnetron). If the insulator material gets hot, then
> it is lossy. Of
> course you would have to fire the clay before testing it,
> otherwise the
> water content would make it get hot anyway.
>
> If the pill bottles are polypropylene or a similar
> non-polar plastic then
> they are probably not very lossy, but of course if the

> current through the
> wire makes the wire hot by normal I^2*R losses, then the
> hot wire would
> melt the plastic. This would only be a concern in a power
> amplifier or
> tube circuits as you mentioned.
>
> Chris

FWIW, I looked at a number of old pill bottles out of curiousity, they are all marked PP No.5 which is Polypropylene. Checking in a microwave oven sounds like a good idea.

--

Richard Knoppow
Los Angeles, CA, USA
dickburk@ix.netcom.com

From 6413427491831413093
X-Google-Thread: fc2a5,a0c4cea1f56d214a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews8.bellsouth.net.POSTED!ef49a7c3!not-for-mail
From: Ted KX4OM <kilocycles@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Where to purchase Fair-Rite toroid?
Message-ID: <hg2fn2ps1ci1v8gqqs6j0t1phumb5fjcd5@4ax.com>
References: <nQFbh.1347$eb5.349@newsreading01.news.tds.net>
<1164945852.054478.167880@j44g2000cwa.googlegroups.com>
<457250fd$0$3487$a82e2bb9@reader.athenanews.com>
X-Newsreader: Forte Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 12
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mabncmnekmdohbabdbdpiflmbcekedmfhojhikkbagflhcbohgbcgolekkfblpeclgfobbgplgdghngkok
ompnccapjgkdbfppneobeolemhmahibmenmefpnddofeakkgihnjjnhnimgijipmmimpgmbnjlncdj
NNTP-Posting-Date: Wed, 06 Dec 2006 22:29:55 EST
Organization: BellSouth Internet Group
Date: Wed, 06 Dec 2006 22:30:00 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8105

```
If you can translate Fair-Rite's part numbers (obvious after awhile),
CWS Byremark has an extensive stock of all types with reasonable price
and shipping.  For common types, it's had to beat Diz's bundles at
kitsandparts, though.
Ted
On Sat, 02 Dec 2006 20:25:03 -0700, hayseed <nothere@bogus.com> wrote:

>Try Dan's small parts at:
>
>http://www.danssmallpartsandkits.net/
>
>-Bob



From 9404021310821973l3
X-Google-Thread: fc2a5,6d13078417a672d1,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-
sjc-10!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Doug Birky" <dgbirky@voyager.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: QRP Rig
Date: Wed, 6 Dec 2006 21:57:46 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12nf5133n0pdjdb@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2600.0000
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
X-Complaints-To: abuse@supernews.com
Lines: 9
Xref: g2news2.google.com rec.radio.amateur.homebrew:8106

I have built a Tiny Tornado on 40m. It TX and RX fine. I have my ICOM751
tuned to 7.040 for help in tuning. I notice that when I turn the Tornado on,
I get a solid tone. It does transmit fine, but when I release the key, I get
this solid tone. Anyone else experience this?

Thanks,
Doug / KB8M





From 3629624969779896917
X-Google-Thread: fc2a5,4ba4b78826f0dd49,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.nventure.com!news.nventure.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 07 Dec 2006 00:23:14 -0600
```

From: Bevis <kc7zwg@kc7zwg.org>
Subject: Streaming Repeater Audio
Newsgroups: rec.radio.amateur.homebrew
Reply-To: kc7zwg@kc7zwg.com
Date: Wed, 06 Dec 2006 22:22:47 -0800
Organization: kc7zwg.org
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <bLOdnXJakprPLurYnZ2dnUVZ_vSdnZ2d@nventure.com>
Lines: 21
NNTP-Posting-Host: 131.191.21.31
X-Trace: sv3-PZlGyIHZB31KIM1N/
o0PzItMBEwCzdcXsmx+gP0VJZOPvu8SZGxyOYOMR0o7UqJrHDn8cw+A+vJyulf!
GjEz8GBu5cLSPyz2n0Ccxl0nJT0LcU7819dCGgKC0F5zsE6XgJb7T1n2x6kRjRk6mxYyWxjAUeOy!
193qemoCMEdfqh+mieA4hlHvHDygx30=
X-Complaints-To: abuse@nventure.com
X-DMCA-Complaints-To: abuse@nventure.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8107

http://kc7zwg.com

there is a link on the page to listen
to the repeaters and Echolink/IRLP LIVE

--
Martin Johnson - KC7ZWG
kc7zwg@kc7zwg.com - http://www.kc7zwg.com

From -1643205434608703609
X-Google-Thread: 1033f5,b7651b0b377de91d,start
X-Google-Thread: 108228,b7651b0b377de91d,start
X-Google-Thread: 109013,b7651b0b377de91d,start
X-Google-Thread: 103227,b7651b0b377de91d,start

X-Google-Thread: fb049,b7651b0b377de91d,start
X-Google-Thread: 108778,b7651b0b377de91d,start
X-Google-Thread: 103929,b7651b0b377de91d,start
X-Google-Thread: fc2a5,b7651b0b377de91d,start
X-Google-Thread: 107ada,b7651b0b377de91d,start
X-Google-Attributes: gid1033f5,gid108228,gid109013,gid103227,gidfb049,gid108778,gid103929,gidfc2a5,gid107ada,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.nventure.com!news.nventure.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 07 Dec 2006 00:25:39 -0600
From: Bevis <kc7zwg@kc7zwg.org>
Subject: LIVE Streaming Repeater audio
Newsgroups: alt.ham-radio.digital-voice,alt.ham-radio.marketplace,alt.ham-radio.nocode,alt.ham-radio.spread,alt.ham-radio.vhf-uhf,alt.radio.amateur,aus.radio.amateur,fr.rec.radio.amateur,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Followup-To: alt.ham-radio.digital-voice
Reply-To: kc7zwg@kc7zwg.com
Date: Wed, 06 Dec 2006 22:25:11 -0800
Organization: kc7zwg.org
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <bLOdnW1akpp-LurYnZ2dnUVZ_vSdnZ2d@nventure.com>
Lines: 18
NNTP-Posting-Host: 131.191.21.31
X-Trace: sv3-GGEE4xkZTFiwDVPlj1Jmt87sYea3UjRiI4VVOfgl59V+KQYneLJvR9rzMs7lXGQP8EkHsflNVRGGGqf!4Py+IogqH2a5J5ko40CIE56NINPr59WiRx1F/KezWTaGwewA1JlrCax4fHa9YmUVv2gUHvSTwTgO!WUKf5teLcvtgWNfbb2VVLDeG7BmNia8=
X-Complaints-To: abuse@nventure.com
X-DMCA-Complaints-To: abuse@nventure.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com alt.ham-radio.digital-voice:10 alt.ham-radio.marketplace:1604 alt.ham-radio.nocode:54 alt.ham-radio.spread:9 alt.ham-radio.vhf-uhf:3359 alt.radio.amateur:353 fr.rec.radio.amateur:5434 rec.radio.amateur.homebrew:8108 rec.radio.amateur.misc:26823

http://kc7zwg.com

there is a link on the page to listen
to the repeaters and Echolink/IRLP LIVE

--
Martin Johnson - KC7ZWG
kc7zwg@kc7zwg.com - http://www.kc7zwg.com

```
From 3022538310000016842
X-Google-Thread: fc2a5,6d13078417a672d1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.midco.net!
news.midco.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 07 Dec 2006 06:09:11 -0600
Date: Thu, 07 Dec 2006 06:09:14 -0600
From: Arlon Nelson <anelson@min.midco.net>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: QRP Rig
References: <12nf5133n0pdjdb@corp.supernews.com>
In-Reply-To: <12nf5133n0pdjdb@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <z_WdnS78iOr6meXYnZ2dnUVZ_obinZ2d@midco.net>
Lines: 16
NNTP-Posting-Host: 24.230.170.224
X-Trace: sv3-ppqqZlpkHcu4MQbYhG2M66Gmr7R2wDuykj/
WCcIrByME3NgOSSI3VPzosuFASPQcCM9QnMF7LhMCQRi!GYM/
rMNakha037tVziNI1nR3soALU283QfMfHa8D3k2pgQ+/ZyVrVcIkkeIE/c4oFwlcsZxmytff!TpBmkZ9n
X-Complaints-To: abuse@midco.net
X-DMCA-Complaints-To: abuse@midco.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:8109
```

Doug Birky wrote:
> I have built a Tiny Tornado on 40m. It TX and RX fine. I have my ICOM751
> tuned to 7.040 for help in tuning. I notice that when I turn the Tornado on,
> I get a solid tone. It does transmit fine, but when I release the key, I get
> this solid tone. Anyone else experience this?
>
> Thanks,
> Doug / KB8M
>

>
Doug

That is normal, got the same thing in mine. Its the oscillator that runs
all the time.

Nels W0TUP

From 529670433905062778
X-Google-Thread: fc2a5,bb9adf88325b7947
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!n67g2000cwd.googlegroups.com!not-for-mail
From: "bcdlr" <on30ng@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Need Help - Harris Filter??
Date: 7 Dec 2006 09:19:15 -0800
Organization: http://groups.google.com
Lines: 22
Message-ID: <1165511955.087517.292500@n67g2000cwd.googlegroups.com>
References: <1165379636.910100.60470@16g2000cwy.googlegroups.com>
   <DXDdh.16659$j7.335585@news.indigo.ie>
NNTP-Posting-Host: 74.135.146.232
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165511961 21002 127.0.0.1 (7 Dec 2006 17:19:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 7 Dec 2006 17:19:21 +0000 (UTC)
In-Reply-To: <DXDdh.16659$j7.335585@news.indigo.ie>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.8)
Gecko/20061025 Firefox/1.5.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: n67g2000cwd.googlegroups.com; posting-host=74.135.146.232;
   posting-account=cHaz4A0AAABSvgBXdvZeKRmzV_BI715_
Xref: g2news2.google.com rec.radio.amateur.homebrew:8110

I think that's what it appears to be but I can't find any information
on it that way either.
Any ideas?

Dan KB9JLO

Eamon Skelton wrote:
> On Tue, 05 Dec 2006 20:33:56 -0800, bcdlr wrote:
>
> > I have a Harris filter in my junk box, or at least I think it is a
> > Harris filter.
> > On top of can:
> > P/N 700-0423-00
> > FREQ 10.000 MHZ

> > T136
> > SN. 6385
>
> Is it a filter? It sounds more like an oscillator.
>
> 73, Ed. EI9GQ.
>

From -5473357737510800190
X-Google-Thread: fc2a5,2885fd5fd58ce162
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!16g2000cwy.googlegroups.com!not-for-mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Q of coils made on ceramic form?
Date: 7 Dec 2006 09:51:35 -0800
Organization: http://groups.google.com
Lines: 76
Message-ID: <1165513895.564967.19540@16g2000cwy.googlegroups.com>
References: <1165420650.198866.59380@n67g2000cwd.googlegroups.com>
NNTP-Posting-Host: 207.200.116.72
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1165513901 25723 127.0.0.1 (7 Dec 2006 17:51:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 7 Dec 2006 17:51:41 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-ntc-tb11.proxy.aol.com[CFC870B4] (Prism/1.1.9), HTTP/1.1 cache-ntc-ab08.proxy.aol.com[CFC87448] (Traffic-Server/6.1.3 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: 16g2000cwy.googlegroups.com; posting-host=207.200.116.72;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:8111

eternalsquire@comcast.net wrote:
> All,
>
> I've been hearing how winding coils on discarded plastic pill bottles
> is not suitable for RF tank circuits due to low Q, and that these would
> not be safe for tube circuits anyway due to melting point.
>
> I have access to kaolinite clay (white porcelain) and a kiln, and I was
> wondering if I molded and fired this type of clay for coil forms, what
> effect on a tank circuit Q this form would have.
>
> Thanks in advance,

>
> The Eternal Squire

There will be very little effect on Q of an inductor wound on a 1/16" to 1/8" thick wall of translucent plastic as used in pill bottles...as compared to ceramic or epoxy-paper or other plastics as used in commercial coil formers. A quick check on any Q Meter will prove that. [I've done that out of curiosity many many years ago and little change]

A visual clue is the old B&W "coil stock" of heavy wire held in place by cemented-on strips of polystyrene (usually in four strips per long coil stock, equidistant around the circumference. Those were used in the 50s and 60s primarily in tube amplifier circuits under about 200 W.

Using ceramic formers for anything under 400 W (give or take) power level is overkill in insulation. Back in the 30s and 40s use of ceramic was easy in the industry (plastics industry hadn't developed far yet for electronics applications)...so already-in-place ceramics work was an easy way to go for manufacturers of "radio parts." That led many to believe that ceramic forms are "necessary."

The BEST way to go is to sit down and do some grunge work of calculation of RF currents and voltages in a power amplifier L-C network...to see what ACTUAL loss will do insofar as heat dissipation. Q - as measured - will be the same a low or high power levels so the measurements at low levels will still apply to high power applications.

If heat dissipation is a real concern, then that can be simulated with simple AC through a resistance wound around the former in question. Any resistance wire will do, such as the elements out of an old toaster, hair dryer, etc. Set the low frequency power dissipation the same as what was calculated for RF and watch the results.

By the way, some pill bottles are still molded from polystyrenes with some high end medications stuffed in (of all things) polycarbonate (expensive) containers. The much-storied "Q Dope" (supposedly so great to use on small coils, which it isn't in longevity) is polystyrene with lots of solvent. Q Dope will pull away from most surfaces ("lifts") after several months due to adsorbed moisture in the air, losing some of its good properties. Spar or boat varnish (from petroleum products) is better and longer-lasting, doesn't smell as good as Q Dope but can also be used on floors and furniture. I use McCloskey "Gym Seal" myself...rather expensive in do-it-yourself stores, though.

Just having some kind of ceramic molded is never a panacea. Without some good RF dielectric loss measurement gear you won't be able to know if the ceramic mix has strange stuff in it

that could result in it being a lossy dielectric. Some ceramic
coffee mugs can heat up by themselves due to trace-whatevers
fired in with the ceramic. That indicates a dielectric loss at 2.4
GHz...but you won't know what the effect is at lower RF without
measuring it.

I would say you have a needless worry on former material. If you
want to fire your own ceramics, go for it! :-)

LenAnderson@ieee.org

From 2866670847342195911
X-Google-Thread: fc2a5,bb9adf88325b7947
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news2.volia.net!dedekind.zen.co.uk!
zen.net.uk!demorgan.zen.co.uk!feeder.news.heanet.ie!news.indigo.ie!not-for-mail
From: Eamon Skelton <Xnospam@oceanfree.net>
Subject: Re: Need Help - Harris Filter??
Newsgroups: rec.radio.amateur.homebrew
References: <1165379636.910100.60470@16g2000cwy.googlegroups.com>
<DXDdh.16659$j7.335585@news.indigo.ie>
<1165511955.087517.292500@n67g2000cwd.googlegroups.com>
User-Agent: pan 0.119 (Karma Hunters)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 23
Message-ID: <xBZdh.16678$j7.335657@news.indigo.ie>
Date: Thu, 07 Dec 2006 19:05:01 GMT
NNTP-Posting-Host: 86.41.157.171
X-Complaints-To: abuse@eircom.net
X-Trace: news.indigo.ie 1165518301 86.41.157.171 (Thu, 07 Dec 2006 19:05:01 GMT)
NNTP-Posting-Date: Thu, 07 Dec 2006 19:05:01 GMT
Organization: Eircom.Net http://www.eircom.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8112

On Thu, 07 Dec 2006 09:19:15 -0800, bcdlr wrote:

> I think that's what it appears to be but I can't find any information
> on it that way either.
> Any ideas?
>
> Dan KB9JLO

A 10MHz oscillator in a sealed metal can could be a TCXO
or possibly even an OCXO.

Has it a similar pinout to the unit at the bottom of
this page?

```
http://www.vectron.com/products/ocxo/co724725.htm

73, Ed. EI9GQ




--
Remove 'X' to reply by e-mail.
linux 2.6.17


From 6398561579722299328
X-Google-Thread: fc2a5,6d13078417a672d1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!pd7cy1no!pd7cy2no!shaw.ca!
pd7urf1no.POSTED!53ab2750!not-for-mail
X-Trace-PostClient-IP: 70.64.113.7
From: Yukio YANO <yano@shaw.ca>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: QRP Rig
References: <12nf5133n0pdjdb@corp.supernews.com>
<z_WdnS78iOr6meXYnZ2dnUVZ_obinZ2d@midco.net>
In-Reply-To: <z_WdnS78iOr6meXYnZ2dnUVZ_obinZ2d@midco.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 32
Message-ID: <sw_dh.446185$R63.373306@pd7urf1no>
Date: Thu, 07 Dec 2006 20:07:52 GMT
NNTP-Posting-Host: 24.66.94.143
X-Complaints-To: abuse@shaw.ca
X-Trace: pd7urf1no 1165522072 24.66.94.143 (Thu, 07 Dec 2006 13:07:52 MST)
NNTP-Posting-Date: Thu, 07 Dec 2006 13:07:52 MST
Organization: Shaw Residential Internet
Xref: g2news2.google.com rec.radio.amateur.homebrew:8113

Arlon Nelson wrote:
> Doug Birky wrote:
>> I have built a Tiny Tornado on 40m. It TX and RX fine. I have my ICOM751
>> tuned to 7.040 for help in tuning. I notice that when I turn the
>> Tornado on,
>> I get a solid tone. It does transmit fine, but when I release the key,
>> I get
>> this solid tone. Anyone else experience this?
>>
>> Thanks,
>> Doug / KB8M
>>
>>
> Doug
```

>
> That is normal, got the same thing in mine. Its the oscillator that runs
> all the time.
>
> Nels W0TUP

Sounds like a Direct-Conversion Rx./Tx. set-up to me. Where the Local Oscillator is the same as the Rx/Tx Frequency. The ICOM751 should normally be Zero-Beated to the signal in SSB Mode. But using Incremental Tune to set the Side-Tone in CW Mode else you would end up chasing a CW. signal up and down the band. The other source of the problem might be RF leakage from an unshielded Tiny Tornado, radiating back through the Rx Rf stage ! This was how German Submarines were detected, even during "Radio Silence" in WW2. They were leaking the LO (Rx +/- IF) back to the antenna in the RX mode. This was Cured by an extra RF stage between the antenna and the first mixer. This is how unlicensed TV sets were detected in Great Britain, BC (before Cable).

Yukio YANO VE5 YS

From 3091911250914148534
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!uns-out.usenetserver.com!news.usenetserver.com!pc03.usenetserver.com!DIALUPUSA.NET!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW to FM Remodulator?
From: Mike Monett <No@email.adr>
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
<1162556859.782446.301680@h48g2000cwc.googlegroups.com>
<Xns98741B7E1D4AENoemailadr@208.49.80.251>
<1163186104.101525.243960@i42g2000cwa.googlegroups.com>
Organization: UTS
Message-ID: <Xns9885DE0E4B95Noemailadr@208.49.80.251>
User-Agent: Xnews/5.04.25
X-Complaints-To: abuse@usenetserver.com
Date: Fri, 24 Nov 2006 01:22:12 -0500
Lines: 101
X-Trace: 5c56d45668f943fac6a28582
Xref: g2news2.google.com rec.radio.amateur.homebrew:7963

"AndyS" <andysharpe@juno.com> wrote:

>
> Mike Monett wrote:

>> "AndyS" <andysharpe@juno.com> wrote:
>>
>>   > My ear copy can still pick those out, and many of the "processors"
>>   > can't deal with noisy sigs in that region. They tend to fall apart
>>   > when anything below tangential sensitivity is received.

>>
>>   > Andy W4OAH in Eureka, Texas

[...]

> Andy comments:\
>
>   Mike,

>   The comments you have attributed to me in the above post
> are in error. You mistakenly copied another's comments and
> put my name in front of it....... Not a problem for me,but
> I get into enough trouble on my own without having to catch
> any hell for other people... (grin)
>
>   Andy W4OAH
>

Andy, here is your complete post with the original formatting:

~~~~~~
Subject: Re: CW to FM Remodulator?
Date: 3 Nov 2006 04:27:39 -0800
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew

ka9s3@comcast.net wrote:>
> Have any of you ever done this and how did it work out for you?
>
> - Jeff

Andy writes:
  Jeff, I haven't tried this method, but one rule of thumb I have
always
believed in is:

"No matter how much you shift, limit, amplify or divide noise, it still
ends up as noise"

  The only effective way I have ever found is to narrow the bandwidth
around the signal until the signal starts to get degraded. If done
digitally, it can be done by digital processing, but that changes only
the technique, not the principle...

   So, while I would really like to try out some of these "improved
methods",
I am not confident enough in them to spend a weekend wiring together
some hardware.... In my younger years, I probly would've, tho....

   Personally, as a CW operator of some 45 years, I have found that my
ears/brain does a lot better job of filtering than one would suppose,
especially
~~~~~~

if I am copying some standard message where I sort of know the words
the other fellow will send. I only need 2 or 3 letters per word to
fill in
the pieces with devastating accuracy (grin).....

But, good luck on your efforts. If you do build up something, please

come back and post it here.   I am sure that there are many
experimenters who try something like that if someone thinks it shows
promise..... But, please, take some actual measurements. And with
S/N ratios of around the 0 db level. My ear copy can still pick those

out, and many of the "processors" can't deal with noisy sigs in that
region....they tend to fall apart when anything below tangential
sensitivity is received....

Andy   W4OAH in Eureka, Texas
~~~~~~

It appears everything after "Andy writes:" was written by you. If it was
written by someone else, you did not indicate so.

It also appears the Period key on your keyboard is sticking and producing
too many periods. I have gathered the extra ones and put them here in case
you run out and need some in the future:

.. ..

Regards,

Mike Monett

Antiviral, Antibacterial Silver Solution:
http://silversol.freewebpage.org/index.htm
SPICE Analysis of Crystal Oscillators:
http://silversol.freewebpage.org/spice/xtal/clapp.htm
Noise-Rejecting Wideband Sampler:
http://www3.sympatico.ca/add.automation/sampler/intro.htm

From 3703612892219276792
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe03.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
<1162556859.782446.301680@h48g2000cwc.googlegroups.com>
<Xns98741B7E1D4AENoemailadr@208.49.80.251>
<1163186104.101525.243960@i42g2000cwa.googlegroups.com>
<Xns9885DE0E4B95Noemailadr@208.49.80.251>
~~~~~~

Subject: Re: CW to FM Remodulator?
Lines: 51
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <%3D9h.173$gG1.142@newsfe03.lga>
X-Trace:
pgpdkimbbbabbbpekannfilpcpbbolnmlmekefoidbkglkbdnicfceledepkikoolhlefpnpglhfdcnhig
apcjkfahpehopaejpkaddlfoepjfjnnpfomiibhijgbjckfjnlkijlapclbdfj
NNTP-Posting-Date: Fri, 24 Nov 2006 07:11:07 MST
Date: Fri, 24 Nov 2006 09:11:04 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:7964

"Mike Monett" <No@email.adr> wrote in message
news:Xns9885DE0E4B95Noemailadr@208.49.80.251...

> Andy writes:
>
> Jeff, I haven't tried this method, but one rule of thumb I have always believed in is:
>
> "No matter how much you shift, limit, amplify or divide noise, it still ends up as noise"
>
> The only effective way I have ever found is to narrow the bandwidth around the signal until the signal starts to get degraded. If done digitally, it can be done by digital processing, but that changes only the technique, not the principle...

Actually, digital processing CAN change the principle.

FIR filters and similar digital filters do provide a way to reduce the bandwidth digitally, and as you point out, reducing the bandwidth reduces the noise. This helps the same way a crystal filter helps, except perhaps giving a little more flexibility.

However, many modern radios have digital noise reduction which is quite a different animal. With digital noise reduction, the incoming signal is analyzed to identify noise components and differentiate them from signal components. The noise is then subtracted from the signal. While this isn't perfect, it can result in quite a substantial reduction in noise without reducing bandwidth.

The combination of bandwidth reduction and digital noise reduction can greatly improve readability.

I agree that other typical analog techniques don't really affect things all that much, but I'm not convinced that the same techniques that are used for noise reduction digitally couldn't be duplicated with analog components; I've just never seen it done, and without some considerable creativity on the part of the designer it will be quite complex.

One analog behavior I have noticed that helps, at least with CW. For passive balanced mixers, there is a diode threshold voltage required for the signal to be detected. If the gain is managed so that the noise level is very close to this threshold, the signal to noise ratio seems to be improved (although I have not personally validated this analytically). Of course, if the signal is at the noise level this doesn't help, and if the signal is barely above the noise level the adjustment is too critical to be a great help, but where the signal has enough headroom, it can pretty dramatically improve the pleasure of listening to a weak signal.

..

From 6243157401810376472
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller2.gnilink.net!gnilink.net!trndny03.POSTED!0da99462!not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
<1162556859.782446.301680@h48g2000cwc.googlegroups.com>
<Xns98741B7E1D4AENoemailadr@208.49.80.251>
<1163186104.101525.243960@i42g2000cwa.googlegroups.com>
<Xns9885DE0E4B95Noemailadr@208.49.80.251> <%3D9h.173$gG1.142@newsfe03.lga>
Subject: Re: CW to FM Remodulator?
Lines: 67
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <%BD9h.6025$IW2.891@trndny03>
Date: Fri, 24 Nov 2006 14:47:23 GMT
NNTP-Posting-Host: 68.236.47.120
X-Complaints-To: abuse@verizon.net
X-Trace: trndny03 1164379643 68.236.47.120 (Fri, 24 Nov 2006 09:47:23 EST)
NNTP-Posting-Date: Fri, 24 Nov 2006 09:47:23 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:7965

For passive balanced mixers, there is a diode threshold voltage required for the signal to be detected.

This is news to me - can you please elaborate?

Joe
W3JDR

"xpyttl" <xpyttl_NOSPAM@earthling.net> wrote in message
news:%3D9h.173$gG1.142@newsfe03.lga...
> "Mike Monett" <No@email.adr> wrote in message
> news:Xns9885DE0E4B95Noemailadr@208.49.80.251...
>> Andy writes:
>> Jeff, I haven't tried this method, but one rule of thumb I have
>> always
>> believed in is:
>>
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>> ends up as noise"
>>
>> The only effective way I have ever found is to narrow the bandwidth
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>> digitally, it can be done by digital processing, but that changes only
>> the technique, not the principle...
>
> Actually, digital processing CAN change the principle.
>
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>
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>
> The combination of bandwidth reduction and digital noise reduction can
> greatly improve readability.
>
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> the signal to be detected. If the gain is managed so that the noise level
> is very close to this threshold, the signal to noise ratio seems to be
> improved (although I have not personally validated this analytically). Of
> course, if the signal is at the noise level this doesn't help, and if the
> signal is barely above the noise level the adjustment is too critical to
> be a great help, but where the signal has enough headroom, it can pretty
> dramatically improve the pleasure of listening to a weak signal.

```
>
> ..
>
>




From 5446337244946786692
X-Google-Thread: 1159c6,ce1849f065a77a42,start
X-Google-Thread: 112d1e,ce1849f065a77a42,start
X-Google-Thread: 107cee,ce1849f065a77a42,start
X-Google-Thread: f849b,ce1849f065a77a42,start
X-Google-Thread: fc2a5,ce1849f065a77a42,start
X-Google-Thread: fcc6e,ce1849f065a77a42,start
X-Google-Thread: 1131b0,ce1849f065a77a42,start
X-Google-Attributes:
gid1159c6,gid112d1e,gid107cee,gidf849b,gidfc2a5,gidfcc6e,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.gamma.ru!Gamma.RU!
news2.volia.net!newsfeed01.sul.t-online.de!newsfeed00.sul.t-online.de!t-online.de!
newsfeed.freenet.de!newspeer1.nwr.nac.net!border2.nntp.dca.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 24 Nov 2006 11:03:27 -0600
From: maxfoo <maxfoo@punkass.com>
Newsgroups:
alt.binaries.schematics.electronic,sci.electronics.cad,sci.electronics.design,sci.
electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.a
ntenna,sci.electronics.repair
Subject: Those wonderful TOYS!
Date: Fri, 24 Nov 2006 12:03:25 -0500
Organization: ...
Message-ID: <3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com>
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 10
NNTP-Posting-Host: 71.232.171.160
X-Trace: sv3-373so2qmLuFrnVm3+zXK5+DNx5PQrPh+gkcwxaauS3b16e4XfPbXOboc5/
rzv+UPNkk00m0Z3aqr3YB!
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4cNwRnE6GU1Jy2s=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com sci.electronics.cad:3746 sci.electronics.design:126434
sci.electronics.misc:8196 comp.arch.embedded:25874 rec.radio.amateur.homebrew:7966
```

rec.radio.amateur.antenna:21923 sci.electronics.repair:35959

GAWD, These kids nowadays have it made!
Check out this kewl hotwheels radar gun on sale for $20.00 at Walmart.
I wonder if it's accurate though, I might just pick one up and
dissect it!!
Anyone already get one of these, is it accurate? TIA

http://www.walmart.com/catalog/product.do?product_id=4661205

From 2363787496188688324
X-Google-Thread: 1159c6,ce1849f065a77a42
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: 107cee,ce1849f065a77a42
X-Google-Thread: f849b,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: fcc6e,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed2.dallas1.level3.net!
newsreader1.level3.com!newsfeed1.dallas1.level3.net!news.level3.com!
mencken.net.nih.gov!elk.ncren.net!nntp.upenn.edu!newsserver.news.garr.it!
kanaga.switch.ch!switch.ch!newsfeed00.sul.t-online.de!t-online.de!
newsfeed.freenet.de!newspeer1.nwr.nac.net!newspeer.monmouth.com!
nx01.iad01.newshosting.com!newshosting.com!216.196.98.140.MISMATCH!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 24 Nov 2006 11:24:25 -0600
Date: Fri, 24 Nov 2006 10:24:23 -0700
From: Donald <Donald@dontdoithere.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
alt.binaries.schematics.electronic,sci.electronics.cad,sci.electronics.design,sci.
electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.a
ntenna,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com>
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Content-Type: text/plain; charset=us-ascii; format=flowed
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Message-ID: <R-SdnQxemOVUt_rYnZ2dnUVZ_r2dnZ2d@comcast.com>
Lines: 19
NNTP-Posting-Host: 24.8.35.112

X-Trace: sv3-eMK/SderlR/
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fhjEHQ7ezTA=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com sci.electronics.cad:3747 sci.electronics.design:126438
sci.electronics.misc:8197 comp.arch.embedded:25879 rec.radio.amateur.homebrew:7967
rec.radio.amateur.antenna:21924 sci.electronics.repair:35960

maxfoo wrote:

> GAWD, These kids nowadays have it made!
> Check out this kewl hotwheels radar gun on sale for $20.00 at Walmart.
> I wonder if it's accurate though, I might just pick one up and
> dissect it!!
> Anyone already get one of these, is it accurate? TIA
>
> http://www.walmart.com/catalog/product.do?product_id=4661205
>
>
>

The link did not work.

Please post the real name of the product.

Thank You

Donald

From -5909257009120201139
X-Google-Thread: 1159c6,ce1849f065a77a42
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: 107cee,ce1849f065a77a42
X-Google-Thread: f849b,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
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X-Google-Thread: 1131b0,ce1849f065a77a42
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.gamma.ru!Gamma.RU!
nntp.theplanet.net!inewsm1.nntp.theplanet.net!pe2.news.blueyonder.co.uk!
blueyonder!proxad.net!proxad.net!nx02.iad01.newshosting.com!newshosting.com!
216.196.98.140.MISMATCH!border1.nntp.dca.giganews.com!nntp.giganews.com!
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```
Date: Fri, 24 Nov 2006 10:29:22 -0700
From: Donald <Donald@dontdoithere.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
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electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.a
ntenna,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com> <R-
SdnQxemOVUt_rYnZ2dnUVZ_r2dnZ2d@comcast.com>
In-Reply-To: <R-SdnQxemOVUt_rYnZ2dnUVZ_r2dnZ2d@comcast.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <R-SdnQ9emOVptvrYnZ2dnUVZ_r2dnZ2d@comcast.com>
Lines: 26
NNTP-Posting-Host: 24.8.35.112
X-Trace: sv3-
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iEbnKnXn8HEubs7q2ORF9c0p6WNaV8MtKu4JM5X33dfFQdCtyxMPLCWUijUHv2Pevtatyffql8tK!
cKZ+K30m9mw=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com sci.electronics.cad:3748 sci.electronics.design:126441
sci.electronics.misc:8198 comp.arch.embedded:25880 rec.radio.amateur.homebrew:7968
rec.radio.amateur.antenna:21925 sci.electronics.repair:35961

Donald wrote:

> maxfoo wrote:
>
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>> Check out this kewl hotwheels radar gun on sale for $20.00 at Walmart.
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>> it!!
>> Anyone already get one of these, is it accurate? TIA
>>
>> http://www.walmart.com/catalog/product.do?product_id=4661205
>>
>>
>>
> The link did not work.
>
> Please post the real name of the product.
>
> Thank You
```

>
> Donald

Never mind, it worked the third time.

donald

From -8006263070753869479
X-Google-Thread: fc2a5,7aa1caf4012a8341
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 24 Nov 2006 11:51:21 -0600
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Y9u8h.7543$y92.6054@tornado.tampabay.rr.com>
Subject: Re: Intersil CA3162E/CA3161E A/D BCD/7Segment problem Weller Soldering
Station
Date: Fri, 24 Nov 2006 11:51:16 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <xKGdnXt-1NCErPrYnZ2dnUVZ_uCdnZ2d@comcast.com>
Lines: 35
NNTP-Posting-Host: 67.176.141.93
X-Trace: sv3-W71S4f2J9xGLQh+c5S5oEthnPrsQuD+D4hiU2r0WkfpBC5Sn/
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cK1BpyO9ui6jA1fgRaE=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7969

"**THE-RFI-EMI-GUY**" <rhyolite@nettally.com> wrote in message
news:Y9u8h.7543$y92.6054@tornado.tampabay.rr.com...
> Subject: Intersil CA3162E/CA3161E A/D BCD/7Segment problem Weller
> Soldering Station
>
> Hi
> I am trying to fil my Weller soldering station which has lost its
> temperature readout. This particular model has the Intersil
> CA3162E/CA3161E A/D and BCD/7Segment chips. When first turned on the
> display flashes "EEE" and then goes blank. I shotgunned the repair by

> replacing the filter caps in the power supply and though I had it fixed
> but it is back to same problem.
>
> In reading the Intersil application notes for the A/D convertor I don't
> see a logical mode where EEE would be displayed
> Does anyone have advice for troubleshooting this configuration?
> --
> Joe Leikhim K4SAT
> "The RFI-EMI-GUY"�

Joe -

I went to my files and found the EC3000/EC4000 Tech Sheet (I have not yet
posted this one).
This model had the slide switch between READ and SET.

It shows an ICL 7137 as the main display IC and a MOG 2374 as the control
board IC.

The resistor values on the display board are critical for proper F readings

g. beat
w9gb

From 964490332120399663
X-Google-Thread: fc2a5,7aa1caf4012a8341
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
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NNTP-Posting-Date: Fri, 24 Nov 2006 12:06:47 -0600
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Y9u8h.7543$y92.6054@tornado.tampabay.rr.com>
Subject: Re: Intersil CA3162E/CA3161E A/D BCD/7Segment problem Weller Soldering Station
Date: Fri, 24 Nov 2006 12:06:41 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <XcednWgfgbkqqfrYnZ2dnUVZ_sydnZ2d@comcast.com>
Lines: 34
NNTP-Posting-Host: 67.176.141.93
X-Trace: sv3-rAx0ROmubCdzcX6v0IOdRj8ziR92sCLkUL+h7mEHoXiJ7bjxjo20LOwjX7hZA++IWZ4Z0rWfKuabF79!YtRmETo+NmYCP6Hl0GJCX0iWVDzw0a4uMzXLN/pLWGm4HjzCy0j+xeLwa1Xa1NQg67Q79RyJ8fFw!RVgEOAXSpAnXenU5V0k=
X-Complaints-To: abuse@comcast.net

X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7970

"**THE-RFI-EMI-GUY**" <rhyolite@nettally.com> wrote in message
news:Y9u8h.7543$y92.6054@tornado.tampabay.rr.com...
> Subject: Intersil CA3162E/CA3161E A/D BCD/7Segment problem Weller
> Soldering Station
>
> Hi
> I am trying to fil my Weller soldering station which has lost its
> temperature readout. This particular model has the Intersil
> CA3162E/CA3161E A/D and BCD/7Segment chips. When first turned on the
> display flashes "EEE" and then goes blank. I shotgunned the repair by
> replacing the filter caps in the power supply and though I had it fixed
> but it is back to same problem.
>
> In reading the Intersil application notes for the A/D convertor I don't
> see a logical mode where EEE would be displayed
> Does anyone have advice for troubleshooting this configuration?
> --
> Joe Leikhim K4SAT
> "The RFI-EMI-GUY"�

Double check the voltage on the secondary of your transformer. Red 24 VAC, Blue 9 VAC and Yellow - Common. On SOME models, like the EC3000 and EC4000 series a 1 ohm resistor is placed in series with the BLUE wire usually just inside the transformer (wrap/solder joint with wire lead).

I did have one -- where that resistor "opened" -- that caused similar problems. The 9 VAC feeds both the +5 and -5 VDC voltages using 1N4004 diodes and 3.9 Kohm dropping resistor on negative 5 and 7805 for positive 5 VDC.

w9gb

From -5192270130329852263
X-Google-Thread: 1159c6,ce1849f065a77a42
X-Google-Thread: 112d1e,ce1849f065a77a42
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X-Google-Thread: f849b,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.gamma.ru!Gamma.RU!newsfeed.icl.net!newsfeed.fjserv.net!nx01.iad01.newshosting.com!newshosting.com!198.186.194.250.MISMATCH!transit3.readnews.com!news-out.readnews.com!newspeer1.nwr.nac.net!border2.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 24 Nov 2006 13:08:51 -0600
From: maxfoo <maxfoo@punkass.com>
Newsgroups: alt.binaries.schematics.electronic,sci.electronics.cad,sci.electronics.design,sci.electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
Date: Fri, 24 Nov 2006 14:08:50 -0500
Organization: ...
Message-ID: <cngem2pab698qdvea9as3r81m6c8kikn8o@4ax.com>
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com> <3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com> <R-SdnQxemOVUt_rYnZ2dnUVZ_r2dnZ2d@comcast.com>
X-Newsreader: Forte Agent 1.91/32.564
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Lines: 29
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com sci.electronics.cad:3749 sci.electronics.design:126526 sci.electronics.misc:8200 comp.arch.embedded:25887 rec.radio.amateur.homebrew:7971 rec.radio.amateur.antenna:21929 sci.electronics.repair:35969

On Fri, 24 Nov 2006 10:24:23 -0700, Donald <Donald@dontdoithere.com> wrote:

>maxfoo wrote:
>
>> GAWD, These kids nowadays have it made!
>> Check out this kewl hotwheels radar gun on sale for $20.00 at Walmart.
>> I wonder if it's accurate though, I might just pick one up and
>> dissect it!!
>> Anyone already get one of these, is it accurate? TIA
>>
>> http://www.walmart.com/catalog/product.do?product_id=4661205
>>
>>

>>
>The link did not work.
>
>Please post the real name of the product.
>
>Thank You
>
>Donald

Walmart.com is temporarily unavailable due to high traffic volume. We appreciate your patience. Please check back shortly to see our great values.

Gawd, now I have to go to the store to pick one up :(

From -6333907011640750868
X-Google-Thread: 1159c6,ce1849f065a77a42
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: 107cee,ce1849f065a77a42
X-Google-Thread: f849b,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: fcc6e,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed2.dallas1.level3.net!
news.level3.com!panix!newsfeed.media.kyoto-u.ac.jp!newspeer.tds.net!
216.170.153.140.MISMATCH!newsreading01.news.tds.net!53ab2750!not-for-mail
From: Impmon <impmon@digi.mon>
Newsgroups:
alt.binaries.schematics.electronic,sci.electronics.cad,sci.electronics.design,sci.electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
Organization: Digimon
Message-ID: <gmhem2db2fk4227ftfkd5nak4i268qej6c@4ax.com>
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
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Content-Transfer-Encoding: 7bit
Lines: 18
Date: Fri, 24 Nov 2006 19:26:07 GMT
NNTP-Posting-Host: 69.128.233.70
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X-Trace: newsreading01.news.tds.net 1164396367 69.128.233.70 (Fri, 24 Nov 2006 13:26:07 CST)
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Xref: g2news2.google.com sci.electronics.cad:3750 sci.electronics.design:126536
sci.electronics.misc:8201 comp.arch.embedded:25894 rec.radio.amateur.homebrew:7972
rec.radio.amateur.antenna:21930 sci.electronics.repair:35971

On Fri, 24 Nov 2006 12:03:25 -0500, maxfoo <maxfoo@punkass.com> wrote:

>GAWD, These kids nowadays have it made!
>Check out this kewl hotwheels radar gun on sale for $20.00 at Walmart.
>I wonder if it's accurate though, I might just pick one up and
>dissect it!!
>Anyone already get one of these, is it accurate? TIA

And how high can it record speed?  I'd like to try and nail a few
pimple-faced, pill-popping, high school dropouts who thinks 25MPH
speed limit means it's OK to rip down the road at 75.  If it's
accurate enough, a video camera recording the speed and the offending
vehicle with its license place would stop them hopefully before they
get a new hood ornament in the form of a 3 year old child.
--
When you hear the toilet flush, and hear the words "uh oh", it's already
too late.    - by anonymous Mother in Austin, TX
Spam block in place, no emil reply is expected at all.


From -2759931803637938910
X-Google-Thread: 1159c6,ce1849f065a77a42
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: 107cee,ce1849f065a77a42
X-Google-Thread: f849b,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
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news2.volia.net!newsfeed01.sul.t-online.de!t-online.de!solnet.ch!solnet.ch!
newspeer1.nwr.nac.net!border2.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!
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news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 24 Nov 2006 13:30:06 -0600
Date: Fri, 24 Nov 2006 14:39:59 -0500
From: John Popelish <jpopelish@rica.net>
Organization: This space not available for advertising.
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups:
alt.binaries.schematics.electronic,sci.electronics.cad,sci.electronics.design,sci.
electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.a
ntenna,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com>
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ECteuT7H+23IX7Jaa7KGNLstTiadHA==
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
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Xref: g2news2.google.com sci.electronics.cad:3751 sci.electronics.design:126540
sci.electronics.misc:8202 comp.arch.embedded:25896 rec.radio.amateur.homebrew:7973
rec.radio.amateur.antenna:21931 sci.electronics.repair:35973
```

Impmon wrote:

> And how high can it record speed? I'd like to try and nail a few
> pimple-faced, pill-popping, high school dropouts who thinks 25MPH
> speed limit means it's OK to rip down the road at 75. If it's
> accurate enough, a video camera recording the speed and the offending
> vehicle with its license place would stop them hopefully before they
> get a new hood ornament in the form of a 3 year old child.

I suspect its readout is scaled to Hotwheels scale, not
actual speed.

```
From 2492880205479857947
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X-Google-Thread: fcc6e,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
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Path: g2news2.google.com!news2.google.com!newsfeed.gamma.ru!Gamma.RU!
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border2.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local01.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-
mail
NNTP-Posting-Date: Fri, 24 Nov 2006 13:34:56 -0600
From: maxfoo <maxfoo@punkass.com>
Newsgroups:
```

alt.binaries.schematics.electronic,sci.electronics.cad,sci.electronics.design,sci.
electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.a
ntenna,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
Date: Fri, 24 Nov 2006 14:34:55 -0500
Organization: ...
Message-ID: <h8iem21p36es3lpeodmrl5rupii7g3jt3m@4ax.com>
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
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Xref: g2news2.google.com sci.electronics.cad:3752 sci.electronics.design:126544
sci.electronics.misc:8203 comp.arch.embedded:25898 rec.radio.amateur.homebrew:7974
rec.radio.amateur.antenna:21932 sci.electronics.repair:35974

On Fri, 24 Nov 2006 14:39:59 -0500, John Popelish <jpopelish@rica.net> wrote:

>Impmon wrote:
>
>> And how high can it record speed? I'd like to try and nail a few
>> pimple-faced, pill-popping, high school dropouts who thinks 25MPH
>> speed limit means it's OK to rip down the road at 75. If it's
>> accurate enough, a video camera recording the speed and the offending
>> vehicle with its license place would stop them hopefully before they
>> get a new hood ornament in the form of a 3 year old child.
>
>I suspect its readout is scaled to Hotwheels scale, not
>actual speed.

Nope, it does "real speed" the amazon review says;

Amazon.com Review
Ever wonder just how fast you get your favorite Hot Wheels car to go? Or how
speedy you are on your own bike? You don�t need to be pulled over by a cop to
find out. The Hot Wheels Radar Gun does the job for you, using all sorts of
state-of-the-art technology. Just set the scale to 1/64th or real speed, and MPH

or KPH, aim the gun at objects coming toward you or moving away, squeeze the trigger, and check out the digital readout. Simple as that! Now you can set new speed goals, and actually find out if you�ve attained them. The 1/64th scale speed reflects the fact that Hot Wheels cars are 1/64th the size of a real car. So if a Hot Wheels car goes 10 MPH, the calculation is 10 MPH X 64 = 640 MPH! Now we begin to understand why those wheels are so hot! Requires four "AAA" batteries (not included).--Emilie Coulter

Product Description
Now you can read the speed of your favorite Hot Wheels racing vehicles. With point-and-read real-life styling and super-cool graphics. Not for use with some Hot Wheels vehicles. Requires 4 AAA batteries- not included.

From -7376181521164717324
X-Google-Thread: 1159c6,ce1849f065a77a42
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: 107cee,ce1849f065a77a42
X-Google-Thread: f849b,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: fcc6e,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
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X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Fri, 24 Nov 2006 13:39:18 -0600
Date: Fri, 24 Nov 2006 14:39:18 -0500
From: Dave <W1MCE@comcast.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.4) Gecko/20030624 Netscape/7.1 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: alt.binaries.schematics.electronic,sci.electronics.cad,sci.electronics.design,sci.electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com> <3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com>
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com sci.electronics.cad:3753 sci.electronics.design:126549
sci.electronics.misc:8204 comp.arch.embedded:25899 rec.radio.amateur.homebrew:7975
rec.radio.amateur.antenna:21933 sci.electronics.repair:35975
```

maxfoo wrote:

> GAWD, These kids nowadays have it made!
> Check out this kewl hotwheels radar gun on sale for $20.00 at Walmart.
> I wonder if it's accurate though, I might just pick one up and
> dissect it!!
> Anyone already get one of these, is it accurate? TIA
>
> http://www.walmart.com/catalog/product.do?product_id=4661205
>
>
>

The link worked using Netscape 7.1 and IE 7.1

```
From 1749014066898186640
X-Google-Thread: 1159c6,ce1849f065a77a42
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: 107cee,ce1849f065a77a42
X-Google-Thread: f849b,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: fcc6e,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
X-Google-Attributes:
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X-Google-Language: ENGLISH,CP1252
Path: g2news2.google.com!news4.google.com!newsfeed2.dallas1.level3.net!
newsreader1.level3.com!newsfeed1.dallas1.level3.net!news.level3.com!
mencken.net.nih.gov!elk.ncren.net!newsfeed.news.ucla.edu!newsfeed.berkeley.edu!
ucberkeley!newspeer.monmouth.com!newspeer1.nwr.nac.net!
border2.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!
local01.nntp.dca.giganews.com!nntp.adelphia.com!news.adelphia.com.POSTED!not-for-
mail
NNTP-Posting-Date: Fri, 24 Nov 2006 13:39:30 -0600
Date: Fri, 24 Nov 2006 14:49:23 -0500
From: John Popelish <jpopelish@rica.net>
Organization: This space not available for advertising.
```

```
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups:
alt.binaries.schematics.electronic,sci.electronics.cad,sci.electronics.design,sci.
electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.a
ntenna,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com>
<gmhem2db2fk4227ftfkd5nak4i268qej6c@4ax.com>
<yuudnR9GOOej1frYnZ2dnUVZ_v2dnZ2d@adelphia.com>
<h8iem21p36es3lpeodmrl5rupii7g3jt3m@4ax.com>
In-Reply-To: <h8iem21p36es3lpeodmrl5rupii7g3jt3m@4ax.com>
Content-Type: text/plain; charset=windows-1252; format=flowed
Content-Transfer-Encoding: quoted-printable
Message-ID: <yuudnR5GOOfv1_rYnZ2dnUVZ_v2dnZ2d@adelphia.com>
Lines: 39
NNTP-Posting-Host: 69.168.60.25
X-Trace: sv3-wX3q1AnaaCo/8Hv/
e84TU15HlQGJnqqkAGaZT2C9e4XdZkkEAl4VRhNOcCxkxeViOvNyLPPdsfm14Yd!
HdghDLXRE6xman8kpJDkcQ568l9dV3NTXI9lSEH14BHhG4I7iRq1gEWuq7sR3h83yYkOaU4bxZWw!
Hih0QLV2Afr7BGrfKDaC0WKs8Eru3g==
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com sci.electronics.cad:3754 sci.electronics.design:126550
sci.electronics.misc:8205 comp.arch.embedded:25900 rec.radio.amateur.homebrew:7976
rec.radio.amateur.antenna:21934 sci.electronics.repair:35976

maxfoo wrote:
> On Fri, 24 Nov 2006 14:39:59 -0500, John Popelish <jpopelish@rica.net> =
wrote:

>> I suspect its readout is scaled to Hotwheels scale, not=20
>> actual speed.
>=20
>=20
> Nope, it does "real speed" the amazon review says;
>=20
> Amazon.com Review
> Ever wonder just how fast you get your favorite Hot Wheels car to go? O=
r how
> speedy you are on your own bike? You don=92t need to be pulled over by =
a cop to
> find out. The Hot Wheels Radar Gun does the job for you, using all sort=
s of
> state-of-the-art technology. Just set the scale to 1/64th or real speed=
, and MPH
> or KPH, aim the gun at objects coming toward you or moving away, squeez=
e the
```

```
> trigger, and check out the digital readout. Simple as that! Now you can=
 set new
> speed goals, and actually find out if you=92ve attained them. The 1/64t=
h scale
> speed reflects the fact that Hot Wheels cars are 1/64th the size of a r=
eal car.
> So if a Hot Wheels car goes 10 MPH, the calculation is 10 MPH X 64 =3D =
640 MPH!
> Now we begin to understand why those wheels are so hot! Requires four "=
AAA"
> batteries (not included).--Emilie Coulter=20
(snip)

I stand corrected.  Thank you.







From 1707985537152231529
X-Google-Thread: 1159c6,ce1849f065a77a42
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: 107cee,ce1849f065a77a42
X-Google-Thread: f849b,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: fcc6e,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
X-Google-Attributes:
gid1159c6,gid112d1e,gid107cee,gidf849b,gidfc2a5,gidfcc6e,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.gamma.ru!Gamma.RU!
news2.volia.net!news.glorb.com!nntpserver.com!zeus.nntpserver.com!
nx01.iad01.newshosting.com!newshosting.com!216.196.98.140.MISMATCH!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 24 Nov 2006 15:20:30 -0600
From: maxfoo <maxfoo@punkass.com>
Newsgroups:
alt.binaries.schematics.electronic,sci.electronics.cad,sci.electronics.design,sci.
electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.a
ntenna,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
Date: Fri, 24 Nov 2006 16:20:29 -0500
Organization: ...
Message-ID: <kboem29mk5r7fm6bpi0bmsj7ph18e1kqbq@4ax.com>
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com>
<gmhem2db2fk4227ftfkd5nak4i268qej6c@4ax.com>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
```

```
Lines: 23
NNTP-Posting-Host: 71.232.171.160
X-Trace: sv3-3n5Q/
q0bh3kUKziybFcs7J2a6G0dkb7xXibvYx5cmEzQY3IYrO1FghOcIJ+7eDiUwIFqGiXUS7s87i!
SX9tGajcA+zVxHUN9yCWXPXb6kK2AF2KgGHBOlQ6gMeWxLQMKenEB5/+aS8r+/21lg9ySdltW0jh!
8b28LwpO0rOOSmY=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com sci.electronics.cad:3755 sci.electronics.design:126588
sci.electronics.misc:8206 comp.arch.embedded:25906 rec.radio.amateur.homebrew:7977
rec.radio.amateur.antenna:21937 sci.electronics.repair:35983

On Fri, 24 Nov 2006 19:26:07 GMT, Impmon <impmon@digi.mon> wrote:

>On Fri, 24 Nov 2006 12:03:25 -0500, maxfoo <maxfoo@punkass.com> wrote:
>
>>GAWD, These kids nowadays have it made!
>>Check out this kewl hotwheels radar gun on sale for $20.00 at Walmart.
>>I wonder if it's accurate though, I might just pick one up and
>>dissect it!!
>>Anyone already get one of these, is it accurate? TIA
>
>And how high can it record speed?  I'd like to try and nail a few
>pimple-faced, pill-popping, high school dropouts who thinks 25MPH
>speed limit means it's OK to rip down the road at 75.  If it's
>accurate enough, a video camera recording the speed and the offending
>vehicle with its license place would stop them hopefully before they
>get a new hood ornament in the form of a 3 year old child.

On the box it claims it does actual speeds up to 100 MPH. It's a hot item on
EBAY, but you can get it cheaper at Walmart or Amazon, the sell it on ebay! ;)
```

```
From 8201652819422506369
X-Google-Thread: 1159c6,ce1849f065a77a42
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: 107cee,ce1849f065a77a42
X-Google-Thread: f849b,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: fcc6e,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
X-Google-Attributes:
gid1159c6,gid112d1e,gid107cee,gidf849b,gidfc2a5,gidfcc6e,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news2.google.com!newsfeed.gamma.ru!
```

```
Gamma.RU!newsfeed.icl.net!newsfeed.fjserv.net!newsfeed.news2me.com!
nx02.iad01.newshosting.com!newshosting.com!216.196.98.140.MISMATCH!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.adelphia.com!news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 24 Nov 2006 16:11:30 -0600
From: "John Doe" <hgorden@adelphia.net>
Newsgroups:
alt.binaries.schematics.electronic,sci.electronics.cad,sci.electronics.design,sci.
electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.a
ntenna,sci.electronics.repair
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com> <R-
SdnQxemOVUt_rYnZ2dnUVZ_r2dnZ2d@comcast.com>
<cngem2pab698qdvea9as3r81m6c8kikn8o@4ax.com>
Subject: Re: Those wonderful TOYS!
Date: Fri, 24 Nov 2006 17:11:49 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <1M2dnRXxNvmP8_rYnZ2dnUVZ_vqdnZ2d@adelphia.com>
Lines: 71
NNTP-Posting-Host: 69.162.152.98
X-Trace: sv3-zio9YAgnlmxumb7cLENTQFeOSu53BeavE8Q4oUSqkEgrCDwecgZs9TWBvs/
vVW3I1LG4TO6BLlOMbwR!
Qe0ZF8kWt3TtmtEaSoMuebxwpqG32qf8xKpe9GseBqpNqGsRc9NfnncwLP1Hpu3qowuXXlqgca6w!
WrmNRT5vwgxFlixJod+PcYYypU6b
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com sci.electronics.cad:3756 sci.electronics.design:126618
sci.electronics.misc:8208 comp.arch.embedded:25912 rec.radio.amateur.homebrew:7978
rec.radio.amateur.antenna:21941 sci.electronics.repair:35989
```

its a toy - doesn't say up to what speed it can read!

Features & Specifications

Now you can read the speed of your favorite Hot Wheels racing vehicles with this Hot Wheels Radar Gun. With point-and-read real-life styling, and a sharp, streamlined design, you'll prove once and for all who's king of the road.

a.. Sleek red and silver design
b.. Cool graphics
c.. Simple point-and-read real life styling
d.. Not for use with some Hot Wheels vehicles
e.. Uses 4 AAA batteries, not included

Shipping Weight (in pounds): 2.0

Product in Inches (L x W x H): 15.0 x 3.75 x 10.0

Assembled in Country of Origin: Imported

Origin of Components: Imported

Wal-Mart No.: 000776692

"maxfoo" <maxfoo@punkass.com> wrote in message
news:cngem2pab698qdvea9as3r81m6c8kikn8o@4ax.com...
> On Fri, 24 Nov 2006 10:24:23 -0700, Donald <Donald@dontdoithere.com>
> wrote:
>
>>maxfoo wrote:
>>
>>> GAWD, These kids nowadays have it made!
>>> Check out this kewl hotwheels radar gun on sale for $20.00 at Walmart.
>>> I wonder if it's accurate though, I might just pick one up and
>>> dissect it!!
>>> Anyone already get one of these, is it accurate? TIA
>>>
>>> http://www.walmart.com/catalog/product.do?product_id=4661205
>>>
>>>
>>>
>>The link did not work.
>>
>>Please post the real name of the product.
>>
>>Thank You
>>
>>Donald
>
>
> Walmart.com is temporarily unavailable due to high traffic volume. We
> appreciate
> your patience. Please check back shortly to see our great values.
>
> Gawd, now I have to go to the store to pick one up :(
>
>

begin 666 spacer.gif
M1TE&.#EA% `4`(#_`,# P ```"'Y! $`````+ `````4`!0```(1A(^IR^T/
-HYRTVHNSWKS[KQ4`.P``

```
`
end



From 7838657908906890893
X-Google-Thread: fcc6e,28966154715bb8e0
X-Google-Thread: fc2a5,5ea17aeb391094e4
X-Google-Thread: 10bf43,28966154715bb8e0
X-Google-Thread: 1109af,28966154715bb8e0
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!nntpserver.com!zeus.nntpserver.com!
hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: Group poll.
Date: Fri, 24 Nov 2006 17:26:15 -0500
Message-ID: <ibsem294is2bjap55r5757hvfbiadrkilf@4ax.com>
References: <ej8knc$kn5$1@news.hawaii.edu>
<1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net>
<5lO7h.283$_H5.256@tornado.texas.rr.com>
<u7s8h.1376$tM1.1345@newsread1.news.pas.earthlink.net>
<oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com>
<Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net>
<Jo89h.2462$Gk5.1576@tornado.texas.rr.com>
<E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net>
<Svs9h.2203$_H5.295@tornado.texas.rr.com> <20061124042844.413$vV@newsreader.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 85
NNTP-Posting-Date: 24 Nov 2006 21:31:30 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21944
rec.radio.amateur.homebrew:7979 rec.radio.amateur.policy:55446
rec.radio.swap:10140

On 24 Nov 2006 09:28:00 GMT, Steveo <moparholic@hotmail.com>  wrote:

>"U-Know-Who" <no-one@nowhere.com> wrote:
>> "Slow Code" <my.mail@no.spam> wrote in message
>> news:E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net...
>> > "U-Know-Who" <no-one@nowhere.com> wrote in
>> > news:Jo89h.2462$Gk5.1576@tornado.texas.rr.com:
>> >
>> >>
>> >> "Slow Code" <my.mail@no.spam> wrote in message
>> >> news:Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net...
>> >>> Joe Bloe <abaslon@comcast.net> wrote in
>> >>> news:oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com:
>> >>>
>> >>>> On Tue, 21 Nov 2006 00:54:50 GMT, Slow Code <my.mail@no.spam> wrote:
>> >>>>
>> >>>>>"U-Know-Who" <no-one@nowhere.com> wrote in
>> >>>>>news:5lO7h.283$_H5.256@tornado.texas.rr.com:
>> >>>>>
>> >>>>>>
>> >>>>>> "Slow Code" <my.mail@no.spam> wrote in message
>> >>>>>> news:1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net...
>> >>>>>>> jeffreyh@Hawaii.Edu (Jeffrey Herman) wrote in
>> >>>>>>> news:ej8knc$kn5$1@news.hawaii.edu:
>> >>>>>>>
>> >>>>>>>> John Smith  <assemblywizard@gmail.com> wrote:
>> >>>>>>>>>Idiot, check your spelling, it's "group troll."
>> >>>>>>>>
>> >>>>>>>> Well, let's see if he ment "poll" or "troll":
>> >>>>>>>>
>> >>>>>>>>
>> >>>>>>>>         0  2  4  6  8  10
>> >>>>>>>>                        /
>> >>>>>>>>                       /
>> >>>>>>>>                      /
>> >>>>>>>>                     /
>> >>>>>>>>                    /
>> >>>>>>>>                   /
>> >>>>>>>>                  /
>> >>>>>>>>                 /
>> >>>>>>>>           POLL-O-METER
>> >>>>>>>
>> >>>>>>>
>> >>>>>>>
>> >>>>>>> So what appliances does everyone hope Santa brings them for Xmas?
>> >>>>>>>
>> >>>>>>> HF, VHF, UHF, KENWOOD, YAESU, ICOM, Cobra?
>> >>>>>>>
>> >>>>>>>
>> >>>>>>> I couldn't think of anything for myself, so I hope I just get a
>> >>>>>>> some componants and a new soldering iron for projects so I can
>> >>>>>>> keep moving forward in ham radio.
>> >>>>>>>
>> >>>>>>> SC
>> >>>>>>
>> >>>>>> And spell check for your PC. :-)
>> >>>>>
>> >>>>>
>> >>>>>Which one do you have?  I want Santa to bring me a different one.
>> >>>>>The one you have doesn't work.
>> >>>>>
>> >>>>>SC
>> >>>>
>> >>>>
>> >>>>   Clip and paste to "Word for Windows". . .  It's got the best spell
>> >>>> checker in the market.  Just leave it running in the backgrould and
>> >>>> call it up when you need to type out a letter or two.
>> >>>
>> >>>
>> >>> Thanks,  I'll pass that on to U-Know-Who, but he probably don't have
>> >>> word, just computer games.
>> >>>
>> >>> SC
>> >>
>> >> I have Office Pro 2003
>> >
>> >
>> > WOW
>> >
>> > SC
>>
>> I ran your posts through it. It said to please excuse the idiot in
>> Colorado who can't afford a high-speed connection.
I gues you are trying convnce me that you arw ole woger
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From 993919625051122762
X-Google-Thread: 1159c6,ce1849f065a77a42
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: 107cee,ce1849f065a77a42
X-Google-Thread: f849b,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: fcc6e,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
X-Google-Attributes:
gid1159c6,gid112d1e,gid107cee,gidf849b,gidfc2a5,gidfcc6e,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.gamma.ru!Gamma.RU!
news2.volia.net!hwmnpeer01.ams!news.highwinds-media.com!feed.xsnews.nl!
feeder.xsnews.nl!217.145.39.3.MISMATCH!talisker.lacave.net!lacave.net!
news.hub.org!sn-xt-sjc-03!sn-xt-sjc-11!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: Spehro Pefhany <speffSNIP@interlogDOTyou.knowwhat>
Newsgroups:
alt.binaries.schematics.electronic,sci.electronics.cad,sci.electronics.design,sci.
electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.a
ntenna,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
Date: Fri, 24 Nov 2006 18:54:38 -0500
Organization: Rather
Message-ID: <j61fm2t1fgt67i1qtcri332mb1u60sbcvi@4ax.com>
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
```

```
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
X-DMCA-Complaints-To: dmca@supernews.com
Lines: 24
Xref: g2news2.google.com sci.electronics.cad:3757 sci.electronics.design:126660
sci.electronics.misc:8209 comp.arch.embedded:25913 rec.radio.amateur.homebrew:7980
rec.radio.amateur.antenna:21948 sci.electronics.repair:36001

On Fri, 24 Nov 2006 12:03:25 -0500, the renowned maxfoo
<maxfoo@punkass.com> wrote:

>GAWD, These kids nowadays have it made!
>Check out this kewl hotwheels radar gun on sale for $20.00 at Walmart.
>I wonder if it's accurate though, I might just pick one up and
>dissect it!!
>Anyone already get one of these, is it accurate? TIA
>
>http://www.walmart.com/catalog/product.do?product_id=4661205
>

Interesting. Someone must be out there flogging a set of components
for radar guns. I bought a Bushnell one for measuring baseball speed
for < $100 not too long ago. It seems to agree fairly well (within a
couple MPH) with the professional models.


Best regards,
Spehro Pefhany
--
"it's the network..."                          "The Journey is the reward"
speff@interlog.com             Info for manufacturers: http://www.trexon.com
Embedded software/hardware/analog  Info for designers:  http://www.speff.com


From -3742134676013724553
X-Google-Thread: 1159c6,ce1849f065a77a42
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: 107cee,ce1849f065a77a42
X-Google-Thread: f849b,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: fcc6e,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
X-Google-Attributes:
gid1159c6,gid112d1e,gid107cee,gidf849b,gidfc2a5,gidfcc6e,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: "David G. Nagel" <nagel@core.com>
Newsgroups:
alt.binaries.schematics.electronic,sci.electronics.cad,sci.electronics.design,sci.
electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.a
```

```
ntenna,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
Date: Fri, 24 Nov 2006 19:28:19 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12mf71kl0u1l985@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com> <R-
SdnQxemOVUt_rYnZ2dnUVZ_r2dnZ2d@comcast.com>
<cngem2pab698qdvea9as3r81m6c8kikn8o@4ax.com>
<1M2dnRXxNvmP8_rYnZ2dnUVZ_vqdnZ2d@adelphia.com>
In-Reply-To: <1M2dnRXxNvmP8_rYnZ2dnUVZ_vqdnZ2d@adelphia.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
X-DMCA-Complaints-To: dmca@supernews.com
Lines: 83
Path: g2news2.google.com!news1.google.com!newsfeed.gamma.ru!Gamma.RU!
newsfeed.icl.net!newsfeed.fjserv.net!oleane.net!oleane!feed.ac-versailles.fr!
uvsq.fr!freenix!sn-xt-sjc-05!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
Xref: g2news2.google.com sci.electronics.cad:3758 sci.electronics.design:126703
sci.electronics.misc:8210 comp.arch.embedded:25920 rec.radio.amateur.homebrew:7981
rec.radio.amateur.antenna:21950 sci.electronics.repair:36009

Unit operates on 10.525 Ghz and has a range of 39 (Thirty Nine) Feet....

Now for the laugh of the day. I was in the local Office Depot and saw a
pair of GMRS/FRS Ht's on the shelf. The package claimed 14 (Fourteen)
Miles range on GMRS High Power....

Dave N






John Doe wrote:
>       its a toy - doesn't say up to what speed it can read!
>
>       Features & Specifications
>
>
>      Now you can read the speed of your favorite Hot Wheels racing vehicles
> with this Hot Wheels Radar Gun. With point-and-read real-life styling, and a
> sharp, streamlined design, you'll prove once and for all who's king of the
> road.
>
>               a.. Sleek red and silver design
>               b.. Cool graphics
>               c.. Simple point-and-read real life styling
>               d.. Not for use with some Hot Wheels vehicles
>               e.. Uses 4 AAA batteries, not included
>
>
>
>                   Shipping Weight (in pounds): 2.0
>
>                   Product in Inches (L x W x H): 15.0 x 3.75 x 10.0
>
>                   Assembled in Country of Origin: Imported
>
>                   Origin of Components: Imported
>
>                   Wal-Mart No.: 000776692
>
>
>
> "maxfoo" <maxfoo@punkass.com> wrote in message
> news:cngem2pab698qdvea9as3r81m6c8kikn8o@4ax.com...
>
>>On Fri, 24 Nov 2006 10:24:23 -0700, Donald <Donald@dontdoithere.com>
>>wrote:
>>
>>
>>>maxfoo wrote:
>>>
>>>
>>>>GAWD, These kids nowadays have it made!
>>>>Check out this kewl hotwheels radar gun on sale for $20.00 at Walmart.
>>>>I wonder if it's accurate though, I might just pick one up and
>>>>dissect it!!
>>>>Anyone already get one of these, is it accurate? TIA
>>>>
>>>>http://www.walmart.com/catalog/product.do?product_id=4661205
>>>>
>>>>
>>>>
>>>
>>>The link did not work.
>>>
>>>Please post the real name of the product.
>>>
>>>Thank You
>>>
>>>Donald
>>
>>
>>Walmart.com is temporarily unavailable due to high traffic volume. We
>>appreciate
>>your patience. Please check back shortly to see our great values.
>>
>>Gawd, now I have to go to the store to pick one up :(
>>
>>
>
>
>


From -1891067083081945939
X-Google-Thread: 1159c6,ce1849f065a77a42
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: 107cee,ce1849f065a77a42
X-Google-Thread: f849b,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: fcc6e,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
X-Google-Attributes:
gid1159c6,gid112d1e,gid107cee,gidf849b,gidfc2a5,gidfcc6e,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.maxwell.syr.edu!nntp.infostrada.it!
newsfeed01.sul.t-online.de!t-online.de!newsfeed.stueberl.de!newsfeed.freenet.de!
newspeer1.nwr.nac.net!border2.nntp.dca.giganews.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 24 Nov 2006 20:10:19 -0600
From: maxfoo <maxfoo@punkass.com>
Newsgroups:
alt.binaries.schematics.electronic,sci.electronics.cad,sci.electronics.design,sci.
electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.a
ntenna,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
Date: Fri, 24 Nov 2006 21:10:18 -0500
Organization: ...
Message-ID: <ma9fm294923vh4fj34r0bhnftmld6u9jkj@4ax.com>
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com> <R-
SdnQxemOVUt_rYnZ2dnUVZ_r2dnZ2d@comcast.com>
<cngem2pab698qdvea9as3r81m6c8kikn8o@4ax.com>
<1M2dnRXxNvmP8_rYnZ2dnUVZ_vqdnZ2d@adelphia.com>
<12mf71kl0u1l985@corp.supernews.com>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 10
NNTP-Posting-Host: 71.232.171.160
X-Trace: sv3-WKh/
FEufZ9ERXerFrNsjVN0FDB1oMuu623ppueOHsu0cGaxtOa0mNOl7PyjCmTC8QP4gdW94BO168ut!
DrGKJXIejkUEhZza7g4PxTIVO9qQj88bXCQ1zbQNC2/UDzA2pT6OwYhaiolq9mrC7p4OfY0+6+Pg!/
eAJb+mNwbt2L2s=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com sci.electronics.cad:3759 sci.electronics.design:126730 sci.electronics.misc:8212 comp.arch.embedded:25922 rec.radio.amateur.homebrew:7982 rec.radio.amateur.antenna:21951 sci.electronics.repair:36013

On Fri, 24 Nov 2006 19:28:19 -0600, "David G. Nagel" <nagel@core.com> wrote:

>Unit operates on 10.525 Ghz and has a range of 39 (Thirty Nine) Feet....

That is correct! It uses a 10.525GHz DRO circuitry.
Someone took it apart and posted the photos on the web.

http://www.austech.info/showthread.php?t=135840&page=1

From 1286438716718281371
X-Google-Thread: 1159c6,ce1849f065a77a42
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: 107cee,ce1849f065a77a42
X-Google-Thread: f849b,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: fcc6e,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
X-Google-Attributes:
gid1159c6,gid112d1e,gid107cee,gidf849b,gidfc2a5,gidfcc6e,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.gamma.ru!Gamma.RU!
newsfeed.media.kyoto-u.ac.jp!newspeer.tds.net!216.170.153.140.MISMATCH!
newsreading01.news.tds.net!53ab2750!not-for-mail
From: Impmon <impmon@digi.mon>
Newsgroups:
alt.binaries.schematics.electronic,sci.electronics.cad,sci.electronics.design,sci.electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
Organization: Digimon
Message-ID: <a1bfm2tab4kdqkoo4inu83ignq8vg23r7v@4ax.com>
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com> <R-SdnQxemOVUt_rYnZ2dnUVZ_r2dnZ2d@comcast.com>
<cngem2pab698qdvea9as3r81m6c8kikn8o@4ax.com>
<1M2dnRXxNvmP8_rYnZ2dnUVZ_vqdnZ2d@adelphia.com>
<12mf71kl0u1l985@corp.supernews.com> <ma9fm294923vh4fj34r0bhnftmld6u9jkj@4ax.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 19
Date: Sat, 25 Nov 2006 02:39:27 GMT
NNTP-Posting-Host: 69.128.233.70

```
X-Complaints-To: news@tds.net
X-Trace: newsreading01.news.tds.net 1164422367 69.128.233.70 (Fri, 24 Nov 2006
20:39:27 CST)
NNTP-Posting-Date: Fri, 24 Nov 2006 20:39:27 CST
Xref: g2news2.google.com sci.electronics.cad:3760 sci.electronics.design:126736
sci.electronics.misc:8213 comp.arch.embedded:25926 rec.radio.amateur.homebrew:7983
rec.radio.amateur.antenna:21952 sci.electronics.repair:36016

On Fri, 24 Nov 2006 21:10:18 -0500, maxfoo <maxfoo@punkass.com> wrote:

>>Unit operates on 10.525 Ghz and has a range of 39 (Thirty Nine) Feet....
>
>That is correct! It uses a 10.525GHz DRO circuitry.
>Someone took it apart and posted the photos on the web.
>
>http://www.austech.info/showthread.php?t=135840&page=1

Hmmm... since it is the same as x-band, I wonder if I used those on
freeway, maybe I could scare a few lead foots who has radar detector?
Say I'm coasting down the expressway at posted speed limit when
someone zips past me as if the driver's pants were on fire.  Pick up
the toy gun and zap the offending car.  If the driver has radar
detector on, he'd panic and slow down a bit.
--
When you hear the toilet flush, and hear the words "uh oh", it's already
too late.    - by anonymous Mother in Austin, TX
Spam block in place, no emil reply is expected at all.


From 3830293306489182199
X-Google-Thread: fc2a5,3f43106733090dbd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l12g2000cwl.googlegroups.com!not-for-
mail
From: "Telstar Electronics" <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: OOPS FYI: UPDATE !
Date: 25 Nov 2006 06:13:50 -0800
Organization: http://groups.google.com
Lines: 15
Message-ID: <1164464030.119590.170470@l12g2000cwl.googlegroups.com>
References: <qIOdnZdU4v_dtPvYnZ2dnUVZ_uCdnZ2d@nventure.com>
NNTP-Posting-Host: 75.3.90.161
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164464035 7071 127.0.0.1 (25 Nov 2006 14:13:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 25 Nov 2006 14:13:55 +0000 (UTC)
In-Reply-To: <qIOdnZdU4v_dtPvYnZ2dnUVZ_uCdnZ2d@nventure.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
```

```
Complaints-To: groups-abuse@google.com
Injection-Info: l12g2000cwl.googlegroups.com; posting-host=75.3.90.161;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news2.google.com rec.radio.amateur.homebrew:7984

Martin Johnson wrote:
> sorry, i checked the wrong link
> here is the real one:
>
> never seen this done before.....
> what is it anyway???
>
> http://www.kc7zwg.org
>
> is this illegal amateur radio activity ?

Microwave link...

www.telstar-electronics.com




From -8432347555724183826
X-Google-Thread: fcc6e,28966154715bb8e0
X-Google-Thread: fc2a5,5ea17aeb391094e4
X-Google-Thread: 10bf43,28966154715bb8e0
X-Google-Thread: 1109af,28966154715bb8e0
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone.austin.rr.com!news.rr.com!
tornado.texas.rr.com.POSTED!53ab2750!not-for-mail
From: "U-Know-Who" <no-one@nowhere.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
References: <ej8knc$kn5$1@news.hawaii.edu>
<1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net>
<5lO7h.283$_H5.256@tornado.texas.rr.com>
<u7s8h.1376$tM1.1345@newsread1.news.pas.earthlink.net>
<oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com>
<Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net>
<Jo89h.2462$Gk5.1576@tornado.texas.rr.com>
<E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net>
<Svs9h.2203$_H5.295@tornado.texas.rr.com> <20061124042844.413$vV@newsreader.com>
<ibsem294is2bjap55r5757hvfbiadrkilf@4ax.com>
Subject: Re: Group poll.
Lines: 102
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
```

```
Message-ID: <Ni_9h.5102$Gk5.2155@tornado.texas.rr.com>
Date: Sat, 25 Nov 2006 16:37:01 GMT
NNTP-Posting-Host: 67.10.92.242
X-Complaints-To: abuse@rr.com
X-Trace: tornado.texas.rr.com 1164472621 67.10.92.242 (Sat, 25 Nov 2006 10:37:01
CST)
NNTP-Posting-Date: Sat, 25 Nov 2006 10:37:01 CST
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21959
rec.radio.amateur.homebrew:7985 rec.radio.amateur.policy:55530
rec.radio.swap:10192


<Mark@kb9rqz.aprs> wrote in message
news:ibsem294is2bjap55r5757hvfbiadrkilf@4ax.com...
> On 24 Nov 2006 09:28:00 GMT, Steveo <moparholic@hotmail.com>  wrote:
>
>>"U-Know-Who" <no-one@nowhere.com> wrote:
>>> "Slow Code" <my.mail@no.spam> wrote in message
>>> news:E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net...
>>> > "U-Know-Who" <no-one@nowhere.com> wrote in
>>> > news:Jo89h.2462$Gk5.1576@tornado.texas.rr.com:
>>> >
>>> >>
>>> >> "Slow Code" <my.mail@no.spam> wrote in message
>>> >> news:Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net...
>>> >>> Joe Bloe <abaslon@comcast.net> wrote in
>>> >>> news:oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com:
>>> >>>
>>> >>>> On Tue, 21 Nov 2006 00:54:50 GMT, Slow Code <my.mail@no.spam>
>>> >>>> wrote:
>>> >>>>
>>> >>>>>"U-Know-Who" <no-one@nowhere.com> wrote in
>>> >>>>>news:5lO7h.283$_H5.256@tornado.texas.rr.com:
>>> >>>>>
>>> >>>>>>
>>> >>>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>> >>>>>> news:1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net...
>>> >>>>>>> jeffreyh@Hawaii.Edu (Jeffrey Herman) wrote in
>>> >>>>>>> news:ej8knc$kn5$1@news.hawaii.edu:
>>> >>>>>>>
>>> >>>>>>>> John Smith  <assemblywizard@gmail.com> wrote:
>>> >>>>>>>>>Idiot, check your spelling, it's "group troll."
>>> >>>>>>>>
>>> >>>>>>>> Well, let's see if he ment "poll" or "troll":
>>> >>>>>>>>
>>> >>>>>>>>
>>> >>>>>>>>         0  2  4  6  8  10
>>> >>>>>>>>                        /
>>> >>>>>>>>                       /
>>> >>>>>>>>                      /
>>> >>>>>>>>                     /
>>> >>>>>>>>                    /
>>> >>>>>>>>                   /
>>> >>>>>>>>                  /
>>> >>>>>>>>                 /
>>> >>>>>>>>           POLL-O-METER
>>> >>>>>>>
>>> >>>>>>>
>>> >>>>>>>
>>> >>>>>>> So what appliances does everyone hope Santa brings them for
>>> >>>>>>> Xmas?
>>> >>>>>>>
>>> >>>>>>> HF, VHF, UHF, KENWOOD, YAESU, ICOM, Cobra?
>>> >>>>>>>
>>> >>>>>>>
>>> >>>>>>> I couldn't think of anything for myself, so I hope I just get a
>>> >>>>>>> some componants and a new soldering iron for projects so I can
>>> >>>>>>> keep moving forward in ham radio.
>>> >>>>>>>
>>> >>>>>>> SC
>>> >>>>>>
>>> >>>>>> And spell check for your PC. :-)
>>> >>>>>
>>> >>>>>
>>> >>>>>Which one do you have?  I want Santa to bring me a different one.
>>> >>>>>The one you have doesn't work.
>>> >>>>>
>>> >>>>>SC
>>> >>>>
>>> >>>>
>>> >>>>   Clip and paste to "Word for Windows". . .  It's got the best
>>> >>>> spell
>>> >>>> checker in the market.  Just leave it running in the backgrould and
>>> >>>> call it up when you need to type out a letter or two.
>>> >>>
>>> >>>
>>> >>> Thanks,  I'll pass that on to U-Know-Who, but he probably don't have
>>> >>> word, just computer games.
>>> >>>
>>> >>> SC
>>> >>
>>> >> I have Office Pro 2003
>>> >
>>> >
>>> > WOW
>>> >
>>> > SC
>>>
>>> I ran your posts through it. It said to please excuse the idiot in
>>> Colorado who can't afford a high-speed connection.
> I gues you are trying convnce me that you arw ole woger
```

WTF are you babbling about?

```
> http://kb9rqz.blogspot.com/
>
> --
> Posted via a free Usenet account from http://www.teranews.com
>




From -4305757374168262683
X-Google-Thread: fc2a5,3ad0e5268057ef39
X-Google-Thread: 10cf58,3ad0e5268057ef39
X-Google-Thread: 10d85e,3ad0e5268057ef39
X-Google-Thread: fb1f8,3ad0e5268057ef39
X-Google-Attributes: gidfc2a5,gid10cf58,gid10d85e,gidfb1f8,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j44g2000cwa.googlegroups.com!not-for-
mail
From: "Bret Ludwig" <bretldwig@yahoo.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.audio.pro,rec.audio.opinion,rec.audio.tech
Subject: Re: HP 3582A ?
Date: 25 Nov 2006 17:44:29 -0800
Organization: http://groups.google.com
Lines: 25
Message-ID: <1164505469.463980.294350@j44g2000cwa.googlegroups.com>
References: <k968h.8441$Sw1.7887@newssvr13.news.prodigy.com>
   <TqudnRNSmd_0IPzYnZ2dnUVZ_rSdnZ2d@comcast.com>
   <osadnViG4rXoIvzYnZ2dnUVZ_oednZ2d@comcast.com>
   <xdWdnQL7lfeDXfzYnZ2dnUVZ_r2dnZ2d@comcast.com>
NNTP-Posting-Host: 68.91.249.124
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164505475 11976 127.0.0.1 (26 Nov 2006 01:44:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 26 Nov 2006 01:44:35 +0000 (UTC)
In-Reply-To: <xdWdnQL7lfeDXfzYnZ2dnUVZ_r2dnZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; PPC Mac OS X Mach-O; en-US;
rv:1.7.12) Gecko/20050915 Firefox/1.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j44g2000cwa.googlegroups.com; posting-host=68.91.249.124;
   posting-account=28uu9A0AAADjRqxxBAS4nBG7PyX9WhKJ
Xref: g2news2.google.com rec.radio.amateur.homebrew:7986 rec.audio.pro:79878
rec.audio.opinion:55975 rec.audio.tech:15091

Arny Krueger wrote:
> "Arny Krueger" <arnyk@hotpop.com> wrote in message
> news:osadnViG4rXoIvzYnZ2dnUVZ_oednZ2d@comcast.com
> > "jack" <jdwalton@comcast.net> wrote in message
> > news:TqudnRNSmd_0IPzYnZ2dnUVZ_rSdnZ2d@comcast.com
> >
> >> One thing which you can do with these older analyzers is
> >> measure much higher voltages than possible on a sound
> >> card FFT,
> >
> > Easy enough to address. I use a 5K RN50 potentiomenter
> > for the purpose. If I want an accurate voltage
> > measurement of audio, I use a voltmeter.
>
> Correction - make that RV4N - example:
>
> http://www.alliedelec.com/Search/ProductDetail.asp?SKU=753-1445

 High dollar pots.
https://taweber.powweb.com/store/potsord.htm

wp105L-CP     $4.75     1 Meg Linear, Conductive Plastic Element, 2 watts,
medium friction. Requires .390" hole.
Click for Pic




From 2905427365215348033
X-Google-Thread: 1159c6,ce1849f065a77a42
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: 107cee,ce1849f065a77a42
X-Google-Thread: f849b,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: fcc6e,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
X-Google-Attributes:
gid1159c6,gid112d1e,gid107cee,gidf849b,gidfc2a5,gidfcc6e,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Subject: Re: Those wonderful TOYS!
From: default <default@defaulter.net>
Date: Fri, 24 Nov 2006 14:29:31 -0500
Message-ID: <mjhem29bjc52hfjm502cfm9f4b5q7s0fqc@4ax.com>
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com> <R-
SdnQxemOVUt_rYnZ2dnUVZ_r2dnZ2d@comcast.com>
<cngem2pab698qdvea9as3r81m6c8kikn8o@4ax.com>
<1M2dnRXxNvmP8_rYnZ2dnUVZ_vqdnZ2d@adelphia.com>
<12mf71kl0u1l985@corp.supernews.com> <ma9fm294923vh4fj34r0bhnftmld6u9jkj@4ax.com>
<a1bfm2tab4kdqkoo4inu83ignq8vg23r7v@4ax.com>
Lines: 37
Path: g2news2.google.com!news1.google.com!news.maxwell.syr.edu!news-out.nntp.be!
sp15lax.superfeed.net!not-for-mail
Newsgroups:
alt.binaries.schematics.electronic,sci.electronics.cad,sci.electronics.design,sci.
electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.a
ntenna,sci.electronics.repair
X-Newsreader: Forte Agent 2.0/32.652
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
```

Content-Transfer-Encoding: 7bit
X-Report: Please report illegal or inappropriate use to <abuse@newsfeeds.com>.
Forward a copy of ALL headers INCLUDING the body. (DO NOT SEND ATTACHMENTS)
X-Comments2: IMPORTANT: Newsfeeds.com does not condone,support,nor tolerate spam
or any illegal or copyrighted postings.
X-Comments: This message was posted through Newsfeeds.com
Organization: Superfeed.net
Xref: g2news2.google.com sci.electronics.cad:3771 sci.electronics.design:127943
sci.electronics.misc:8223 comp.arch.embedded:26029 rec.radio.amateur.homebrew:7987
rec.radio.amateur.antenna:21979 sci.electronics.repair:36156

On Sat, 25 Nov 2006 02:39:27 GMT, Impmon <impmon@digi.mon> wrote:

>Hmmm... since it is the same as x-band, I wonder if I used those on
>freeway, maybe I could scare a few lead foots who has radar detector?
>Say I'm coasting down the expressway at posted speed limit when
>someone zips past me as if the driver's pants were on fire. Pick up
>the toy gun and zap the offending car. If the driver has radar
>detector on, he'd panic and slow down a bit.
>--

Very easy to build a gunn diode oscillator and scare the pants off
leadfoot at a 5+ mile range.

You need a gunn diode, 8 volt regulated supply, one small bypass cap
and copper end cap pipe fitting and piece of copper/ and some brass
screws to make a mount for the diode.

If you have an old radar detector with good gunn oscillator it can
also make a good X band source for triggering radar detectors - just
isolate the diode/horn sub assembly (you don't need the other parts
just the gunn diode, cavity, bypass cap and power supply). Tune the
cavity screws for maximum effect.

----== Posted via Newsfeeds.Com - Unlimited-Unrestricted-Secure Usenet News==----
http://www.newsfeeds.com The #1 Newsgroup Service in the World! 120,000+
Newsgroups
----= East and West-Coast Server Farms - Total Privacy via Encryption =----

From 2199124233930262625
X-Google-Thread: 1159c6,ce1849f065a77a42
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: 107cee,ce1849f065a77a42
X-Google-Thread: f849b,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: fcc6e,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
X-Google-Attributes:
gid1159c6,gid112d1e,gid107cee,gidf849b,gidfc2a5,gidfcc6e,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Subject: Re: Those wonderful TOYS!
From: default <default@defaulter.net>

```
Date: Fri, 24 Nov 2006 14:34:47 -0500
Message-ID: <72iem21r81d3varidmgqe5248sa3bhi8dr@4ax.com>
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com>
<gmhem2db2fk4227ftfkd5nak4i268qej6c@4ax.com>
Lines: 30
Path: g2news2.google.com!news1.google.com!newsfeed.gamma.ru!Gamma.RU!
newsfeed.icl.net!newsfeed.fjserv.net!oleane.net!oleane!nerim.net!news-
out.newsgroups.com!sp15lax.superfeed.net!not-for-mail
Newsgroups:
alt.binaries.schematics.electronic,sci.electronics.cad,sci.electronics.design,sci.
electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.a
ntenna,sci.electronics.repair
X-Newsreader: Forte Agent 2.0/32.652
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Report:  Please report illegal or inappropriate use to <abuse@newsfeeds.com>.
Forward a copy of ALL headers INCLUDING the body. (DO NOT SEND ATTACHMENTS)
X-Comments2:  IMPORTANT: Newsfeeds.com does not condone,support,nor tolerate spam
or any illegal or copyrighted postings.
X-Comments:  This message was posted through Newsfeeds.com
Organization:  Superfeed.net
Xref: g2news2.google.com sci.electronics.cad:3772 sci.electronics.design:127947
sci.electronics.misc:8224 comp.arch.embedded:26030 rec.radio.amateur.homebrew:7988
rec.radio.amateur.antenna:21981 sci.electronics.repair:36157
```

On Fri, 24 Nov 2006 19:26:07 GMT, Impmon <impmon@digi.mon> wrote:

>If it's
>accurate enough, a video camera recording the speed and the offending
>vehicle with its license place would stop them hopefully before they
>get a new hood ornament in the form of a 3 year old child.
>--

A video camera with on screen timer and known distance markers could do the same thing - poor man's Vascar system . . .

Then you'd only have to fight the bureaucracy to make a citizens arrest stick . . . or just convince the local TV station to take up your cause - that would probably be a lot easier than dealing directly with government.

----== Posted via Newsfeeds.Com - Unlimited-Unrestricted-Secure Usenet News==----
http://www.newsfeeds.com The #1 Newsgroup Service in the World! 120,000+ Newsgroups
----= East and West-Coast Server Farms - Total Privacy via Encryption =----

```
From -7806184867148352848
X-Google-Thread: fc2a5,7aa1caf4012a8341
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
```

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nntp.giganews.com!newscon06.news.prodigy.net!prodigy.net!news-east.rr.com!news-
wrt-01.southeast.rr.com!news-wrt-01.tampabay.rr.com!news-feed-01.tampabay.rr.com!
news.rr.com!news-post.tampabay.rr.com!tornado.tampabay.rr.com.POSTED!53ab2750!not-
for-mail
From: **THE-RFI-EMI-GUY** <rhyolite@nettally.com>
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Intersil CA3162E/CA3161E A/D BCD/7Segment problem Weller Soldering
 Station
References: <Y9u8h.7543$y92.6054@tornado.tampabay.rr.com>
<XcednWgfgbkqqfrYnZ2dnUVZ_sydnZ2d@comcast.com>
In-Reply-To: <XcednWgfgbkqqfrYnZ2dnUVZ_sydnZ2d@comcast.com>
Content-Type: multipart/alternative;
 boundary="------------050205020003090605090709"
Lines: 130
Message-ID: <I0qah.12543$y92.5676@tornado.tampabay.rr.com>
Date: Mon, 27 Nov 2006 00:09:12 GMT
NNTP-Posting-Host: 70.121.227.31
X-Complaints-To: abuse@rr.com
X-Trace: tornado.tampabay.rr.com 1164586152 70.121.227.31 (Sun, 26 Nov 2006
19:09:12 EST)
NNTP-Posting-Date: Sun, 26 Nov 2006 19:09:12 EST
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7989

This is a multi-part message in MIME format.
--------------050205020003090605090709
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit

Thanks

w9gb wrote:

>"**THE-RFI-EMI-GUY**" <rhyolite@nettally.com> wrote in message
>news:Y9u8h.7543$y92.6054@tornado.tampabay.rr.com...
>
>
>>Subject: Intersil CA3162E/CA3161E A/D BCD/7Segment problem Weller
>>Soldering Station
>>
>>Hi
>>I am trying to fil my Weller soldering station which has lost its
>>temperature readout. This particular model has the Intersil
>>CA3162E/CA3161E A/D and BCD/7Segment chips. When first turned on the
>>display flashes "EEE" and then goes blank. I shotgunned the repair by
>>replacing the filter caps in the power supply and though I had it fixed
>>but it is back to same problem.
>>
```

```
>>In reading the Intersil application notes for the A/D convertor I don't
>>see  a logical  mode where EEE would be displayed
>>Does anyone have advice for troubleshooting this configuration?
>>--
>>Joe Leikhim K4SAT
>>"The RFI-EMI-GUY"�
>>
>>
>
>Double check the voltage on the secondary of your transformer.  Red 24 VAC,
>Blue 9 VAC and Yellow - Common.  On SOME models, like the EC3000 and EC4000
>series a 1 ohm resistor is placed in series with the BLUE wire usually just
>inside the transformer (wrap/solder joint with wire lead).
>
>I did have one -- where that resistor "opened" -- that caused similar
>problems.  The 9 VAC feeds both the +5 and -5 VDC voltages using 1N4004
>diodes and 3.9 Kohm dropping resistor on negative 5 and 7805 for positive 5
>VDC.
>
>w9gb
>
>
>
>

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money"  ;-P



--------------050205020003090605090709
Content-Type: text/html; charset=us-ascii
Content-Transfer-Encoding: 7bit

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</head>
<body bgcolor="#ffffff" text="#000000">
Thanks<br>
<br>
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<blockquote cite="midXcednWgfgbkqqfrYnZ2dnUVZ_sydnZ2d@comcast.com"
 type="cite">
  <pre wrap="">"**THE-RFI-EMI-GUY**" <a class="moz-txt-link-rfc2396E"
```

```
href="mailto:rhyolite@nettally.com">&lt;rhyolite@nettally.com&gt;</a> wrote in
message
<a class="moz-txt-link-freetext"
href="news:Y9u8h.7543$y92.6054@tornado.tampabay.rr.com">news:Y9u8h.7543$y92.6054@t
ornado.tampabay.rr.com</a>...
  </pre>
  <blockquote type="cite">
    <pre wrap="">Subject: Intersil CA3162E/CA3161E A/D BCD/7Segment problem Weller
Soldering Station

Hi
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Does anyone have advice for troubleshooting this configuration?
--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"&copy;
    </pre>
  </blockquote>
  <pre wrap=""><!---->
Double check the voltage on the secondary of your transformer.  Red 24 VAC,
Blue 9 VAC and Yellow - Common.  On SOME models, like the EC3000 and EC4000
series a 1 ohm resistor is placed in series with the BLUE wire usually just
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diodes and 3.9 Kohm dropping resistor on negative 5 and 7805 for positive 5
VDC.

w9gb



  </pre>
</blockquote>
<br>
<pre class="moz-signature" cols="72">--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"&copy;

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money"  ;-P

</pre>
```

```
</body>
</html>

--------------050205020003090605090709--


From 7195378961993754727
X-Google-Thread: fc2a5,3ad0e5268057ef39
X-Google-Thread: 10cf58,3ad0e5268057ef39
X-Google-Thread: 10d85e,3ad0e5268057ef39
X-Google-Thread: fb1f8,3ad0e5268057ef39
X-Google-Thread: 108122,3ad0e5268057ef39
X-Google-Thread: 10c2ee,3ad0e5268057ef39
X-Google-Attributes:
gidfc2a5,gid10cf58,gid10d85e,gidfb1f8,gid108122,gid10c2ee,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr29.news.prodigy.net.POSTED!c4667c2f!not-for-
mail
From: "Henry Kolesnik" <kolesnik@sbcglobal.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.audio.pro,rec.audio.opinion,rec.audio.tech,rec.radi
o.amateur.equipment,rec.antiques.radio+phono
References: <k968h.8441$Sw1.7887@newssvr13.news.prodigy.com>
<TqudnRNSmd_0IPzYnZ2dnUVZ_rSdnZ2d@comcast.com>
<M46dnSbmypKOxPjYnZ2dnUVZ_o2dnZ2d@comcast.com>
<10h9h.18130$B31.2441@newssvr27.news.prodigy.net>
<YYCdnXiPw5D3kvvYnZ2dnUVZ_tqdnZ2d@comcast.com>
Subject: Re: HP 3582A ?
Lines: 57
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <etrah.16081$9v5.11989@newssvr29.news.prodigy.net>
NNTP-Posting-Host: 64.149.47.248
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr29.news.prodigy.net 1164592074 ST000 64.149.47.248 (Sun, 26 Nov
2006 20:47:54 EST)
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Organization: SBC http://yahoo.sbc.com
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TCNVPDTNTKHWXKB@X^B_OCJLPZ@ET_O[G\XSG@E\G[ZKVLBL^CJINM@I_KVIOR\T_M_AW_M[_BWU_HFA_]
@A_A^SGFAUDE_DFTMQPFWVW[QPJN
Date: Mon, 27 Nov 2006 01:47:54 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7990 rec.audio.pro:79986
rec.audio.opinion:56018 rec.audio.tech:15114 rec.radio.amateur.equipment:7244
rec.antiques.radio+phono:39294
```

Pete

Thanks for the tip on the ARM button now I'm getting closer to what I
know...
Next I've got figure out what all the FFT is about.
Hank
"Pete KE9OA" <p.gianako@comcast.net> wrote in message
news:YYCdnXiPw5D3kvvYnZ2dnUVZ_tqdnZ2d@comcast.com...
> Hi Hank,
>
> This unit should operate like any other spectrum analyzer. Make sure that
> you have it for recursive operation. This button is just above the "ARM"
> button.
> It took me a little while to figure mine out too.
>
> Pete
>
> "Henry Kolesnik" <kolesnik@sbcglobal.net> wrote in message
> news:10h9h.18130$B31.2441@newssvr27.news.prodigy.net...
>> Pete
>> I saw it and got it several days ago but I sure can't make the thing
>> work like a spectrrum analyzer. And I know how to use a HP 141T and its
>> plugins! I don't think there's anything wrong with it as it behaves per
>> the manual Any other help appreciated. Perhaps someone has used one for
>> music study as I want to.
>>
>> --
>>
>> 73
>> Hank WD5JFR
>>
>> "Pete KE9OA" <p.gianako@comcast.net> wrote in message
>> news:M46dnSbmypKOxPjYnZ2dnUVZ_o2dnZ2d@comcast.com...
>>> Agilent has a PDF version of the 3582 manual on their website, as a free
>>> download.
>>>
>>> Pete
>>>
>>> "jack" <jdwalton@comcast.net> wrote in message
>>> news:TqudnRNSmd_0IPzYnZ2dnUVZ_rSdnZ2d@comcast.com...
>>>> One thing which you can do with these older analyzers is measure much
>>>> higher
>>>> voltages than possible on a sound card FFT, much lower frequencies --
>>>> they
>>>> were used for vibration analysis as well as audio -- they are also very
>>>> well
>>>> isolated -- you can find a repro of the manual on EBay for ten bucks.
>>>>
>>>>
>>>>
>>>
>>>
>>
>>
>

>

```
From 2744839111303155744
X-Google-Thread: fc2a5,3ad0e5268057ef39
X-Google-Thread: 10cf58,3ad0e5268057ef39
X-Google-Thread: 10d85e,3ad0e5268057ef39
X-Google-Thread: fb1f8,3ad0e5268057ef39
X-Google-Thread: 108122,3ad0e5268057ef39
X-Google-Thread: 10c2ee,3ad0e5268057ef39
X-Google-Attributes:
gidfc2a5,gid10cf58,gid10d85e,gidfb1f8,gid108122,gid10c2ee,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr29.news.prodigy.net.POSTED!c4667c2f!not-for-
mail
From: "Henry Kolesnik" <kolesnik@sbcglobal.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.audio.pro,rec.audio.opinion,rec.audio.tech,rec.radi
o.amateur.equipment,rec.antiques.radio+phono
References: <k968h.8441$Sw1.7887@newssvr13.news.prodigy.com>
<TqudnRNSmd_0IPzYnZ2dnUVZ_rSdnZ2d@comcast.com>
<M46dnSbmypKOxPjYnZ2dnUVZ_o2dnZ2d@comcast.com>
<10h9h.18130$B31.2441@newssvr27.news.prodigy.net>
<YYCdnXiPw5D3kvvYnZ2dnUVZ_tqdnZ2d@comcast.com>
<etrah.16081$9v5.11989@newssvr29.news.prodigy.net>
Subject: Re: HP 3582A ?
Lines: 71
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <5qEah.16239$9v5.12349@newssvr29.news.prodigy.net>
NNTP-Posting-Host: 70.234.33.184
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr29.news.prodigy.net 1164645121 ST000 70.234.33.184 (Mon, 27 Nov
2006 11:32:01 EST)
NNTP-Posting-Date: Mon, 27 Nov 2006 11:32:01 EST
Organization: SBC http://yahoo.sbc.com
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TSU[@SJDZBUYR_PXGZID]_\@VR]^@B@MCPWZKB]MPXHBTWICYFWUQBKZQLYJX\_ITFD_KFVLUN[DOM_A_N
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QCOA_SAH@TPD^\AL\RLGRFWEARBM
Date: Mon, 27 Nov 2006 16:32:01 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7991 rec.audio.pro:80048
rec.audio.opinion:56039 rec.audio.tech:15132 rec.radio.amateur.equipment:7248
rec.antiques.radio+phono:39335
```

FYI

I just got my eBay CD with the ops and service manual and first glance tells
me that it has what I need. It's 202 pages and much more comprehensive than
the Agilent download and has examples on how to use it.
Thanks to all who tried to help me.

--

73
Hank WD5JFR
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>>>> news:TqudnRNSmd_0IPzYnZ2dnUVZ_rSdnZ2d@comcast.com...
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>>>>> voltages than possible on a sound card FFT, much lower frequencies --

```
>>>>> they
>>>>> were used for vibration analysis as well as audio -- they are also
>>>>> very well
>>>>> isolated -- you can find a repro of the manual on EBay for ten bucks.
>>>>>
>>>>>
>>>>>
>>>>
>>>>
>>>
>>>
>>
>>
>
>




From 7259346029387496707
X-Google-Thread: fc2a5,3ad0e5268057ef39
X-Google-Thread: 10cf58,3ad0e5268057ef39
X-Google-Thread: 10d85e,3ad0e5268057ef39
X-Google-Thread: fb1f8,3ad0e5268057ef39
X-Google-Thread: 108122,3ad0e5268057ef39
X-Google-Thread: 10c2ee,3ad0e5268057ef39
X-Google-Attributes:
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr29.news.prodigy.net.POSTED!c4667c2f!not-for-
mail
From: "Henry Kolesnik" <kolesnik@sbcglobal.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.audio.pro,rec.audio.opinion,rec.audio.tech,rec.radi
o.amateur.equipment,rec.antiques.radio+phono
References: <k968h.8441$Sw1.7887@newssvr13.news.prodigy.com>
<TqudnRNSmd_0IPzYnZ2dnUVZ_rSdnZ2d@comcast.com>
<M46dnSbmypKOxPjYnZ2dnUVZ_o2dnZ2d@comcast.com>
<10h9h.18130$B31.2441@newssvr27.news.prodigy.net>
<YYCdnXiPw5D3kvvYnZ2dnUVZ_tqdnZ2d@comcast.com>
<etrah.16081$9v5.11989@newssvr29.news.prodigy.net>
<5qEah.16239$9v5.12349@newssvr29.news.prodigy.net>
Subject: Re: HP 3582A ?
Lines: 76
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <qDEah.16247$9v5.8591@newssvr29.news.prodigy.net>
```

NNTP-Posting-Host: 70.234.33.184
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr29.news.prodigy.net 1164645974 ST000 70.234.33.184 (Mon, 27 Nov 2006 11:46:14 EST)
NNTP-Posting-Date: Mon, 27 Nov 2006 11:46:14 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
TSUGW[[DYJWUCQLXEBCBNWX@RJ_XPDLMN@GZ_GYO^BSZUSAANVUEAE[YETZPIWWI[FCIZA^NBFXZ_D[BFNTCNVPDTNTKHWXKB@X^B_OCJLPZ@ET_O[G\XSG@E\G[ZKVLBL^CJINM@I_KVIOR\T_M_AW_M[_BWU_HFA_]@A_A^SGFAUDE_DFTMQPFWVW[QPJN
Date: Mon, 27 Nov 2006 16:46:14 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7992 rec.audio.pro:80052 rec.audio.opinion:56040 rec.audio.tech:15134 rec.radio.amateur.equipment:7249 rec.antiques.radio+phono:39337

Oops, ops only, no service
"Henry Kolesnik" <kolesnik@sbcglobal.net> wrote in message
news:5qEah.16239$9v5.12349@newssvr29.news.prodigy.net...
> FYI
> I just got my eBay CD with the ops and service manual and first glance
> tells me that it has what I need. It's 202 pages and much more
> comprehensive than the Agilent download and has examples on how to use it.
> Thanks to all who tried to help me.
>
> --
>
> 73
> Hank WD5JFR
> "Henry Kolesnik" <kolesnik@sbcglobal.net> wrote in message
> news:etrah.16081$9v5.11989@newssvr29.news.prodigy.net...
>> Pete
>> Thanks for the tip on the ARM button now I'm getting closer to what I
>> know...
>> Next I've got figure out what all the FFT is about.
>> Hank
>> "Pete KE9OA" <p.gianako@comcast.net> wrote in message
>> news:YYCdnXiPw5D3kvvYnZ2dnUVZ_tqdnZ2d@comcast.com...
>>> Hi Hank,
>>>
>>> This unit should operate like any other spectrum analyzer. Make sure
>>> that you have it for recursive operation. This button is just above the
>>> "ARM" button.
>>> It took me a little while to figure mine out too.
>>>
>>> Pete
>>>
>>> "Henry Kolesnik" <kolesnik@sbcglobal.net> wrote in message
>>> news:10h9h.18130$B31.2441@newssvr27.news.prodigy.net...
>>>> Pete
>>>> I saw it and got it several days ago but I sure can't make the thing
>>>> work like a spectrrum analyzer. And I know how to use a HP 141T and
>>>> its plugins! I don't think there's anything wrong with it as it behaves
>>>> per the manual Any other help appreciated. Perhaps someone has used

```
>>>> one for music study as I want to.
>>>>
>>>> --
>>>>
>>>> 73
>>>> Hank WD5JFR
>>>>
>>>> "Pete KE9OA" <p.gianako@comcast.net> wrote in message
>>>> news:M46dnSbmypKOxPjYnZ2dnUVZ_o2dnZ2d@comcast.com...
>>>>> Agilent has a PDF version of the 3582 manual on their website, as a
>>>>> free download.
>>>>>
>>>>> Pete
>>>>>
>>>>> "jack" <jdwalton@comcast.net> wrote in message
>>>>> news:TqudnRNSmd_0IPzYnZ2dnUVZ_rSdnZ2d@comcast.com...
>>>>>> One thing which you can do with these older analyzers is measure much
>>>>>> higher
>>>>>> voltages than possible on a sound card FFT, much lower frequencies --
>>>>>> they
>>>>>> were used for vibration analysis as well as audio -- they are also
>>>>>> very well
>>>>>> isolated -- you can find a repro of the manual on EBay for ten bucks.
>>>>>>
>>>>>>
>>>>>>
>>>>>
>>>>>
>>>>
>>>>
>>>
>>>
>>
>>
>
>




From 7047895073812536830
X-Google-Thread: fc2a5,3ad0e5268057ef39
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f16g2000cwb.googlegroups.com!not-for-
mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP 3582A ?
Date: 27 Nov 2006 10:13:31 -0800
Organization: http://groups.google.com
Lines: 17
Message-ID: <1164651211.002236.24250@f16g2000cwb.googlegroups.com>
```

References: <k968h.8441$Sw1.7887@newssvr13.news.prodigy.com>
   <TqudnRNSmd_0IPzYnZ2dnUVZ_rSdnZ2d@comcast.com>
   <osadnViG4rXoIvzYnZ2dnUVZ_oednZ2d@comcast.com>
NNTP-Posting-Host: 71.112.170.245
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1164651217 20824 127.0.0.1 (27 Nov 2006 18:13:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 27 Nov 2006 18:13:37 +0000 (UTC)
In-Reply-To: <osadnViG4rXoIvzYnZ2dnUVZ_oednZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f16g2000cwb.googlegroups.com; posting-host=71.112.170.245;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7993

On Nov 20, 6:45 am, "Arny Krueger" <a...@hotpop.com> wrote:

> There is this amazingly good audio isolation transformer at Radio Shack.
> Sells for under $20 a pair...

Can you be a bit more specific? I found a two-channel "Ground Loop
Isolator," #270-054. Is that what you're talking about? I didn't find
much else in the way of aurio isolation transformers there. From one
of the reviews, it sounds like the frequency response may not be all
that good; there are no specs on the web site (that I could find) that
tell us what the response or distortion is.

Cheers,
Tom

From 7394570027183748990
X-Google-Thread: fcc6e,28966154715bb8e0
X-Google-Thread: fc2a5,5ea17aeb391094e4
X-Google-Thread: 10bf43,28966154715bb8e0
X-Google-Thread: 1109af,28966154715bb8e0
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread1.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: Group poll.
From: Slow Code <my.mail@no.spam>
References: <ODu5h.5284$0r.5279@newsread1.news.pas.earthlink.net>

```
<ej6cua$2naq$1@news.ndhu.edu.tw> <ej8knc$kn5$1@news.hawaii.edu>
<1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net>
<5lO7h.283$_H5.256@tornado.texas.rr.com>
<u7s8h.1376$tM1.1345@newsread1.news.pas.earthlink.net>
<oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com>
<Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net>
<Jo89h.2462$Gk5.1576@tornado.texas.rr.com>
<E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net>
<Svs9h.2203$_H5.295@tornado.texas.rr.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 94
Message-ID: <fjLah.4143$tM1.1155@newsread1.news.pas.earthlink.net>
Date: Tue, 28 Nov 2006 00:22:35 GMT
NNTP-Posting-Host: 4.230.12.15
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1164673355 4.230.12.15 (Mon, 27 Nov 2006
16:22:35 PST)
NNTP-Posting-Date: Mon, 27 Nov 2006 16:22:35 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:22005
rec.radio.amateur.homebrew:7994 rec.radio.amateur.policy:55637
rec.radio.swap:10247

"U-Know-Who" <no-one@nowhere.com> wrote in
news:Svs9h.2203$_H5.295@tornado.texas.rr.com:

>
> "Slow Code" <my.mail@no.spam> wrote in message
> news:E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net...
>> "U-Know-Who" <no-one@nowhere.com> wrote in
>> news:Jo89h.2462$Gk5.1576@tornado.texas.rr.com:
>>
>>>
>>> "Slow Code" <my.mail@no.spam> wrote in message
>>> news:Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net...
>>>> Joe Bloe <abaslon@comcast.net> wrote in
>>>> news:oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com:
>>>>
>>>>> On Tue, 21 Nov 2006 00:54:50 GMT, Slow Code <my.mail@no.spam> wrote:
>>>>>
>>>>>>"U-Know-Who" <no-one@nowhere.com> wrote in
>>>>>>news:5lO7h.283$_H5.256@tornado.texas.rr.com:
>>>>>>
>>>>>>>
>>>>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>>>>> news:1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net...
>>>>>>>> jeffreyh@Hawaii.Edu (Jeffrey Herman) wrote in
>>>>>>>> news:ej8knc$kn5$1@news.hawaii.edu:
>>>>>>>>
>>>>>>>>> John Smith  <assemblywizard@gmail.com> wrote:
>>>>>>>>>>Idiot, check your spelling, it's "group troll."
>>>>>>>>>
>>>>>>>>> Well, let's see if he ment "poll" or "troll":
```

```
>>>>>>>>>
>>>>>>>>>
>>>>>>>>>         0  2  4  6  8  10
>>>>>>>>>                         /
>>>>>>>>>                        /
>>>>>>>>>                       /
>>>>>>>>>                      /
>>>>>>>>>                     /
>>>>>>>>>                    /
>>>>>>>>>                   /
>>>>>>>>>                  /
>>>>>>>>>           POLL-O-METER
>>>>>>>>
>>>>>>>>
>>>>>>>>
>>>>>>>> So what appliances does everyone hope Santa brings them for Xmas?
>>>>>>>>
>>>>>>>> HF, VHF, UHF, KENWOOD, YAESU, ICOM, Cobra?
>>>>>>>>
>>>>>>>>
>>>>>>>> I couldn't think of anything for myself, so I hope I just get a
>>>>>>>> some componants and a new soldering iron for projects so I can
>>>>>>>> keep moving forward in ham radio.
>>>>>>>>
>>>>>>>> SC
>>>>>>>
>>>>>>> And spell check for your PC. :-)
>>>>>>
>>>>>>
>>>>>>Which one do you have?  I want Santa to bring me a different one.
>>>>>>The one you have doesn't work.
>>>>>>
>>>>>>SC
>>>>>
>>>>>
>>>>>   Clip and paste to "Word for Windows". . .  It's got the best spell
>>>>> checker in the market.  Just leave it running in the backgrould and
>>>>> call it up when you need to type out a letter or two.
>>>>
>>>>
>>>> Thanks,  I'll pass that on to U-Know-Who, but he probably don't have
>>>> word, just computer games.
>>>>
>>>> SC
>>>
>>> I have Office Pro 2003
>>
>>
>> WOW
>>
>> SC
>
> I ran your posts through it. It said to please excuse the idiot in
```

> Colorado who can't afford a high-speed connection.

Your CB radio not back from the repair shop so you got to attack real
radio operators?   I knew you went for those "easy-to-burn-up' Cobra and
Galaxy brand appliances.

Oh, and I don't live in colorado, I'm ya alls next door neighbor.

Howdy Neighbor. Heee Heee Heeeeeeee!
SC

From 7418332020625057378
X-Google-Thread: 107ada,e824d36067aae63d
X-Google-Thread: fc2a5,21281c8b88ac790b
X-Google-Thread: 10bf43,21281c8b88ac790b
X-Google-Thread: 1109af,21281c8b88ac790b
X-Google-Attributes: gid107ada,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.misc,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: I just crap on the threads, you people have to smell them.
From: Markie Morgan <my.mail@no.spam>
References: <Xx59h.2180$ql2.36@newsread3.news.pas.earthlink.net>
<1164266862.849860.131870@l12g2000cwl.googlegroups.com>
<O1s9h.2647$ql2.395@newsread3.news.pas.earthlink.net>
<5flcm294aom3297ibmkvf1cjabeucgmr6c@4ax.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 43
Message-ID: <ljLah.4148$tM1.3705@newsread1.news.pas.earthlink.net>
Date: Tue, 28 Nov 2006 00:22:41 GMT
NNTP-Posting-Host: 4.230.12.15
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1164673361 4.230.12.15 (Mon, 27 Nov 2006 16:22:41 PST)
NNTP-Posting-Date: Mon, 27 Nov 2006 16:22:41 PST
Xref: g2news2.google.com rec.radio.amateur.misc:26472
rec.radio.amateur.homebrew:7995 rec.radio.amateur.policy:55642
rec.radio.swap:10252

Mark in the Dark, wrote in
news:5flcm294aom3297ibmkvf1cjabeucgmr6c@4ax.com:

> On Fri, 24 Nov 2006 01:37:50 GMT, Slow Code <my.mail@no.spam> wrote:
>
>>"The Poet" <tcsshortwave@yahoo.com> wrote in
>>news:1164266862.849860.131870@l12g2000cwl.googlegroups.com:

>>
>>>
>>> Slow Code wrote:
>>>> I just start the threads, You people need to keep them going.
>>>>
>>>> But if I see a Pro-coder getting ganged up on by CW haters, I'll
>>>> come back in and help kick some no-code ass.
>>>>
>>>> Sc
>>>
>>>
>>> Well, looks like most sensible people have your posts blocked, other
>>> than myself and the uninitiated... so they never see your posts to
>>> reply.
>>>
>>> Me, I still find your idiocy to be somewhat entertaining... but in
>>> time, I too shall tire of it and decide to "clean up my boards".
>>>
>>>
>>> John Poet
>>
>>
>>A lot of liberals and retards have me killfiled already. I won't truely
>>be happy until I'm in your killfile too, then I think we'll have about
>>all of the liberals and retards covered and I won't have to worry about
>>seeing retarded follow-ups.
>
> get help old man

I jsut carp on thraeds, you peolpe hav to smlel them.

Mark

http://kb9rqz.blogspot.com/

```
From -6097681134491291976
X-Google-Thread: 1159c6,ce1849f065a77a42
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: 107cee,ce1849f065a77a42
X-Google-Thread: f849b,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: fcc6e,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
X-Google-Attributes:
gid1159c6,gid112d1e,gid107cee,gidf849b,gidfc2a5,gidfcc6e,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news2.google.com!newsfeed.gamma.ru!
Gamma.RU!newsfeed.icl.net!newsfeed.fjserv.net!oleane.net!oleane!nerim.net!
proxad.net!proxad.net!nx01.iad01.newshosting.com!newshosting.com!
207.69.154.102.MISMATCH!elnk-atl-nf2!newsfeed.earthlink.net!
```

```
stamper.news.atl.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
alt.binaries.schematics.electronic,sci.electronics.cad,sci.electronics.design,sci.
electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.a
ntenna,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
From: Slow Code <my.mail@no.spam>
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 15
Message-ID: <ImLah.4171$tM1.3684@newsread1.news.pas.earthlink.net>
Date: Tue, 28 Nov 2006 00:26:16 GMT
NNTP-Posting-Host: 4.230.12.15
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1164673576 4.230.12.15 (Mon, 27 Nov 2006
16:26:16 PST)
NNTP-Posting-Date: Mon, 27 Nov 2006 16:26:16 PST
Xref: g2news2.google.com sci.electronics.cad:3776 sci.electronics.design:128415
sci.electronics.misc:8235 comp.arch.embedded:26129 rec.radio.amateur.homebrew:7996
rec.radio.amateur.antenna:22014 sci.electronics.repair:36240

maxfoo <maxfoo@punkass.com> wrote in
news:3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com:

> GAWD, These kids nowadays have it made!
> Check out this kewl hotwheels radar gun on sale for $20.00 at Walmart.
> I wonder if it's accurate though, I might just pick one up and
> dissect it!!
> Anyone already get one of these, is it accurate? TIA
>
> http://www.walmart.com/catalog/product.do?product_id=4661205


They'll grow up and want to be state troopers.

SC



From 4246456188337290022
X-Google-Thread: 107ada,e824d36067aae63d
X-Google-Thread: fc2a5,21281c8b88ac790b
X-Google-Thread: 10bf43,21281c8b88ac790b
X-Google-Thread: 1109af,21281c8b88ac790b
X-Google-Attributes: gid107ada,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!14g2000cws.googlegroups.com!not-for-
mail
From: "an_old_friend" <konstans@hotmail.com>
Newsgroups:
rec.radio.amateur.misc,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.rad
```

io.swap
Subject: kookathon
Date: 27 Nov 2006 16:28:55 -0800
Organization: http://groups.google.com
Lines: 5
Message-ID: <1164673735.806539.85210@14g2000cws.googlegroups.com>
References: <Xx59h.2180$ql2.36@newsread3.news.pas.earthlink.net>
   <1164266862.849860.131870@l12g2000cwl.googlegroups.com>
   <O1s9h.2647$ql2.395@newsread3.news.pas.earthlink.net>
   <5flcm294aom3297ibmkvf1cjabeucgmr6c@4ax.com>
   <ljLah.4148$tM1.3705@newsread1.news.pas.earthlink.net>
NNTP-Posting-Host: 69.19.14.21
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164673741 14346 127.0.0.1 (28 Nov 2006 00:29:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 28 Nov 2006 00:29:01 +0000 (UTC)
In-Reply-To: <ljLah.4148$tM1.3705@newsread1.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 14g2000cws.googlegroups.com; posting-host=69.19.14.21;
   posting-account=5Yl6pg0AAADpwOMWiAfWEILF9IbswBYm
Xref: g2news2.google.com rec.radio.amateur.misc:26483
rec.radio.amateur.homebrew:7997 rec.radio.amateur.policy:55667
rec.radio.swap:10265

Markie Morgan wrote:
>
fraud

From -5150325441522045518
X-Google-Thread: fcc6e,28966154715bb8e0
X-Google-Thread: fc2a5,5ea17aeb391094e4
X-Google-Thread: 10bf43,28966154715bb8e0
X-Google-Thread: 1109af,28966154715bb8e0
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: Group poll.
Date: Mon, 27 Nov 2006 19:44:19 -0500
Message-ID: <8i1nm29084f6poimg38gl89ch1ge8rth2c@4ax.com>
References: <ej8knc$kn5$1@news.hawaii.edu>
<1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net>

```
<5lO7h.283$_H5.256@tornado.texas.rr.com>
<u7s8h.1376$tM1.1345@newsread1.news.pas.earthlink.net>
<oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com>
<Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net>
<Jo89h.2462$Gk5.1576@tornado.texas.rr.com>
<E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net>
<Svs9h.2203$_H5.295@tornado.texas.rr.com>
<fjLah.4143$tM1.1155@newsread1.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 99
NNTP-Posting-Date: 27 Nov 2006 23:51:16 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:22019
rec.radio.amateur.homebrew:7998 rec.radio.amateur.policy:55686
rec.radio.swap:10273

On Tue, 28 Nov 2006 00:22:35 GMT, Slow Code <my.mail@no.spam> wrote:

>"U-Know-Who" <no-one@nowhere.com> wrote in
>news:Svs9h.2203$_H5.295@tornado.texas.rr.com:
>
>>
>> "Slow Code" <my.mail@no.spam> wrote in message
>> news:E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net...
>>> "U-Know-Who" <no-one@nowhere.com> wrote in
>>> news:Jo89h.2462$Gk5.1576@tornado.texas.rr.com:
>>>
>>>>
>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>> news:Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net...
>>>>> Joe Bloe <abaslon@comcast.net> wrote in
>>>>> news:oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com:
>>>>>
>>>>>> On Tue, 21 Nov 2006 00:54:50 GMT, Slow Code <my.mail@no.spam> wrote:
>>>>>>
>>>>>>>"U-Know-Who" <no-one@nowhere.com> wrote in
>>>>>>>news:5lO7h.283$_H5.256@tornado.texas.rr.com:
>>>>>>>
>>>>>>>>
>>>>>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>>>>>> news:1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net...
>>>>>>>>> jeffreyh@Hawaii.Edu (Jeffrey Herman) wrote in
>>>>>>>>> news:ej8knc$kn5$1@news.hawaii.edu:
>>>>>>>>>
>>>>>>>>>> John Smith  <assemblywizard@gmail.com> wrote:
>>>>>>>>>>>Idiot, check your spelling, it's "group troll."
>>>>>>>>>>
>>>>>>>>>> Well, let's see if he ment "poll" or "troll":
>>>>>>>>>>
>>>>>>>>>>
```

```
>>>>>>>>>>         0  2  4  6  8  10
>>>>>>>>>>                        /
>>>>>>>>>>                       /
>>>>>>>>>>                      /
>>>>>>>>>>                     /
>>>>>>>>>>                    /
>>>>>>>>>>                   /
>>>>>>>>>>                  /
>>>>>>>>>>                 /
>>>>>>>>>>           POLL-O-METER
>>>>>>>>>
>>>>>>>>>
>>>>>>>>>
>>>>>>>>> So what appliances does everyone hope Santa brings them for Xmas?
>>>>>>>>>
>>>>>>>>> HF, VHF, UHF, KENWOOD, YAESU, ICOM, Cobra?
>>>>>>>>>
>>>>>>>>>
>>>>>>>>> I couldn't think of anything for myself, so I hope I just get a
>>>>>>>>> some componants and a new soldering iron for projects so I can
>>>>>>>>> keep moving forward in ham radio.
>>>>>>>>>
>>>>>>>>> SC
>>>>>>>>
>>>>>>>> And spell check for your PC. :-)
>>>>>>>
>>>>>>>
>>>>>>>Which one do you have?  I want Santa to bring me a different one.
>>>>>>>The one you have doesn't work.
>>>>>>>
>>>>>>>SC
>>>>>>
>>>>>>
>>>>>>   Clip and paste to "Word for Windows". . .  It's got the best spell
>>>>>> checker in the market.  Just leave it running in the backgrould and
>>>>>> call it up when you need to type out a letter or two.
>>>>>
>>>>>
>>>>> Thanks,  I'll pass that on to U-Know-Who, but he probably don't have
>>>>> word, just computer games.
>>>>>
>>>>> SC
>>>>
>>>> I have Office Pro 2003
>>>
>>>
>>> WOW
>>>
>>> SC
>>
>> I ran your posts through it. It said to please excuse the idiot in
>> Colorado who can't afford a high-speed connection.
>
```

```
>
>Your CB radio not back from the repair shop so you got to attack real
>radio operators?   I knew you went for those "easy-to-burn-up' Cobra and
>Galaxy brand appliances.

nah stev he just misses your shit
>
>Oh, and I don't live in colorado,  I'm ya alls next door neighbor.
>
>Howdy Neighbor. Heee Heee Heeeeeeee!
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From 3545305337192865842
X-Google-Thread: 1159c6,ce1849f065a77a42
X-Google-Thread: 112d1e,ce1849f065a77a42
X-Google-Thread: 107cee,ce1849f065a77a42
X-Google-Thread: f849b,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: fcc6e,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
X-Google-Attributes:
gid1159c6,gid112d1e,gid107cee,gidf849b,gidfc2a5,gidfcc6e,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newsfeed.gamma.ru!Gamma.RU!
newsfeed.icl.net!newsfeed.fjserv.net!newsfeed.icl.net!proxad.net!proxad.net!
nx02.iad01.newshosting.com!newshosting.com!216.196.98.140.MISMATCH!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 27 Nov 2006 22:39:13 -0600
Date: Mon, 27 Nov 2006 21:39:16 -0700
From: Donald <Donald@dontdoithere.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
alt.binaries.schematics.electronic,sci.electronics.cad,sci.electronics.design,sci.
electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.a
ntenna,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com>
<ImLah.4171$tM1.3684@newsread1.news.pas.earthlink.net>
In-Reply-To: <ImLah.4171$tM1.3684@newsread1.news.pas.earthlink.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <MsudnQQEf-jvIPbYnZ2dnUVZ_tWdnZ2d@comcast.com>
```

Lines: 11
NNTP-Posting-Host: 24.8.35.112
X-Trace: sv3-emzVtcmZjOmD+W/
fyEhYpoyJFXMcpvZz3f3c+Fr4gz0OTMvIjL37d1Ao5qPRqbNDLJdPMMqnp/zdMAQ!
p2bCGoG1FZCucCxNZ7rEveddM/xTIrIKp5rhMlE4kgwtb2cq2KWV9O6Em1jCA5pCbISMtIoWGeXy!
Zb4YWTVw90U=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com sci.electronics.cad:3777 sci.electronics.design:128477 sci.electronics.misc:8237 comp.arch.embedded:26137 rec.radio.amateur.homebrew:7999 rec.radio.amateur.antenna:22026 sci.electronics.repair:36256

Slow Code wrote:

>
> They'll grow up and want to be state troopers.
>
> SC

They want to grow up to shoot bullets at live people.

At least 50 at a time.

From -4545291008545415524
X-Google-Thread: 10c2ee,3155a2bd24a2ebbf,start
X-Google-Thread: fc8b1,3155a2bd24a2ebbf,start
X-Google-Thread: fc2a5,3155a2bd24a2ebbf,start
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.gamma.ru!Gamma.RU!
newsfeed.media.kyoto-u.ac.jp!newsfeed.news2me.com!nx02.iad01.newshosting.com!
newshosting.com!216.196.98.140.MISMATCH!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 27 Nov 2006 22:56:40 -0600
Reply-To: "Carl WA1KPD" <nantucketbond@yahoo.com>
From: "Carl WA1KPD" <Nantucketbound@yahoo.com>
Newsgroups:
alt.binaries.pictures.radio,rec.antiques.radio+phono,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Free-2007 WA1KPD Old Tyme Radio Calendar
Date: Mon, 27 Nov 2006 23:56:39 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962

Message-ID: <eZSdndGU7soVXPbYnZ2dnUVZ_tqdnZ2d@comcast.com>
Lines: 18
NNTP-Posting-Host: 67.186.185.78
X-Trace: sv3-
HLuOPX5fzdHQt+GcKyieli+dWFU8uV7VAYn9We+AIillT9rb50wrsrZ830GRwtLJ775Vgn5REHynfk6!
tavZWNSN43D+vBhaP208A+v9Q5GaHQdETafV2IICIHIJdjccSuAC0j8Z1z/07rUzTugZoAmAlGum!
GH0DWm9/4oc=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.antiques.radio+phono:39407
rec.radio.amateur.boatanchors:6488 rec.radio.amateur.homebrew:8000

The 2007 WA1KPD Old Tyme Radio Calendar is available for downloading at:

http://home.comcast.net/~chnord/wa1kpd.html

Click on the link on the top of the page and it will automatically download.

Enjoy it, share it and have a Happy 2007!

73, WA1KPD and family

--
Carl
WA1KPD
Visit My Boatanchor Collection at
http://home.comcast.net/~chnord/wa1kpd.html

From -977878276407452690
X-Google-Thread: 10c2ee,3155a2bd24a2ebbf
X-Google-Thread: fc8b1,3155a2bd24a2ebbf
X-Google-Thread: fc2a5,3155a2bd24a2ebbf
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.gamma.ru!Gamma.RU!
newsfeed.icl.net!newsfeed.fjserv.net!newsfeed.icl.net!proxad.net!proxad.net!
nx01.iad01.newshosting.com!newshosting.com!216.196.98.140.MISMATCH!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 27 Nov 2006 23:23:18 -0600
Date: Tue, 28 Nov 2006 00:28:00 -0500
From: Tom Adkins <newton5@remove.comcast.net>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
MIME-Version: 1.0
Newsgroups:

```
alt.binaries.pictures.radio,rec.antiques.radio+phono,rec.radio.amateur.boatanchors
,rec.radio.amateur.homebrew
Subject: Re: Free-2007 WA1KPD Old Tyme Radio Calendar
References: <eZSdndGU7soVXPbYnZ2dnUVZ_tqdnZ2d@comcast.com>
In-Reply-To: <eZSdndGU7soVXPbYnZ2dnUVZ_tqdnZ2d@comcast.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <EpSdncs-j9taWvbYnZ2dnUVZ_tadnZ2d@comcast.com>
Lines: 22
NNTP-Posting-Host: 76.188.148.164
X-Trace: sv3-RhNHr4AZmse+n1Ko5qlNwNju+ZpFv/
4PyK3rnziN+KhtBnU83YPhwo9hpOcfJfil2wSNK7PTnY7xZwU!
TFPjLQqeF2OfRzUnTeWAzSfXKF4st1y+GowU0Plaut6BNa+wKdOkpbbvtWI/JGKDYNARixZbMZ1H!
FRvMp6E1gQ/TxWFsbiw=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.antiques.radio+phono:39412
rec.radio.amateur.boatanchors:6489 rec.radio.amateur.homebrew:8001

Carl WA1KPD wrote:
> The 2007 WA1KPD Old Tyme Radio Calendar is available for downloading at:
>
> http://home.comcast.net/~chnord/wa1kpd.html
>
> Click on the link on the top of the page and it will automatically download.
>
> Enjoy it, share it and have a Happy 2007!
>
> 73, WA1KPD and family
>
>  --
> Carl
> WA1KPD
> Visit My Boatanchor Collection at
> http://home.comcast.net/~chnord/wa1kpd.html
>
>
>

  Hey, Thanks Carl!
  Happy 2007 to you and yours!.


From -3626044606515701448
X-Google-Thread: 10c2ee,3155a2bd24a2ebbf
X-Google-Thread: fc8b1,3155a2bd24a2ebbf
X-Google-Thread: fc2a5,3155a2bd24a2ebbf
X-Google-Attributes: gid10c2ee,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news2.google.com!news1.google.com!newsfeed.gamma.ru!Gamma.RU!
newsfeed.news2me.com!news-in-01.newsfeed.easynews.com!easynews.com!easynews!news-
west.rr.com!news-feed-01.rdc-kc.rr.com!news.rr.com!cyclone2.kc.rr.com!
news2.kc.rr.com!tornado.socal.rr.com.POSTED!53ab2750!not-for-mail
From: Jeffrey D Angus <jangus@socal.rr.com>
Reply-To:  jangus@socal.rr.com
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
alt.binaries.pictures.radio,rec.antiques.radio+phono,rec.radio.amateur.boatanchors
,rec.radio.amateur.homebrew
Subject: Re: Free-2007 WA1KPD Old Tyme Radio Calendar
References: <eZSdndGU7soVXPbYnZ2dnUVZ_tqdnZ2d@comcast.com>
In-Reply-To: <eZSdndGU7soVXPbYnZ2dnUVZ_tqdnZ2d@comcast.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 16
Message-ID: <vJPah.26692$Fg.10460@tornado.socal.rr.com>
Date: Tue, 28 Nov 2006 05:23:39 GMT
NNTP-Posting-Host: 24.24.217.33
X-Complaints-To: abuse@rr.com
X-Trace: tornado.socal.rr.com 1164691419 24.24.217.33 (Mon, 27 Nov 2006 21:23:39
PST)
NNTP-Posting-Date: Mon, 27 Nov 2006 21:23:39 PST
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.antiques.radio+phono:39413
rec.radio.amateur.boatanchors:6490 rec.radio.amateur.homebrew:8002



Carl WA1KPD wrote:

> The 2007 WA1KPD Old Tyme Radio Calendar is available

Thanks Carl.

Jeff



--
RESTRICTED AREA. Anyone intruding shall immediately become subject to
the jurisdiction of military law. Intruders will be subject to lethal
force, without warning, and on sight. USE OF DEADLY FORCE IS AUTHORIZED
under the Internal Security Act of 1950.


From -4772689875637483046
X-Google-Thread: fc2a5,9c1cfc4806e7e1cf,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h54g2000cwb.googlegroups.com!not-for-
```

mail
From: "tladotse" <w4tki.kenn@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Kenwood TS430S Repair
Date: 28 Nov 2006 06:42:34 -0800
Organization: http://groups.google.com
Lines: 7
Message-ID: <1164724954.578824.323140@h54g2000cwb.googlegroups.com>
NNTP-Posting-Host: 216.47.212.134
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1164724959 13093 127.0.0.1 (28 Nov 2006 14:42:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 28 Nov 2006 14:42:39 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h54g2000cwb.googlegroups.com; posting-host=216.47.212.134;
   posting-account=SwSeMg0AAAAKIOuXhEz6YttTlVeg-iEX
Xref: g2news2.google.com rec.radio.amateur.homebrew:8003

I have a 430 and there is no power output. Receiver works fine. Don't know if it is the finals or the power management circuit. I have used the rig for several years and many hours of use. I was using Groton Electronics for repair but they went out of business. Does anyone know of a reliable place that will work on the Kenwood 430s.
Thanks

From 6587958413804444710
X-Google-Thread: fc2a5,9c1cfc4806e7e1cf
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wn13feed!worldnet.att.net!24.30.200.11!news-east.rr.com!
news.rr.com!news-out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS430S Repair
Date: Tue, 28 Nov 2006 15:11:06 +0000 (UTC)
Organization: MGT Consulting
Lines: 18
Message-ID: <slrnemok7v.6v1.gsm@cable.mendelson.com>
References: <1164724954.578824.323140@h54g2000cwb.googlegroups.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: 89-139-141-139.bb.netvision.net.il
X-Trace: marvin.misty.com 1164726666 23296 89.139.141.139 (28 Nov 2006 15:11:06 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Tue, 28 Nov 2006 15:11:06 +0000 (UTC)

User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8004

tladotse wrote:
> I have a 430 and there is no power output. Receiver works fine. Don't
> know if it is the finals or the power management circuit. I have used
> the rig for several years and many hours of use. I was using Groton
> Electronics for repair but they went out of business. Does anyone know
> of a reliable place that will work on the Kenwood 430s.
> Thanks

There is a TS-430 Yahoo group. Ask there. No power out can be caused by
many things, one of them is a bad connection easily fixed.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
IL Voice: (07)-7424-1667 Fax ONLY: 972-2-648-1443 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/

From -4045263889125273941
X-Google-Thread: fc2a5,c5388b65a0efe28a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!newshub.sdsu.edu!sn-xt-sjc-03!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: NEW HOBBY TYPE SWAP AND SHOP and its really unique
Date: Tue, 28 Nov 2006 11:21:18 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12mp31fe855hbb9@corp.supernews.com>
References: <1164337263.917064.133170@l12g2000cwl.googlegroups.com>
<gnpcm291p22nj9f6a6omom03ldn0pqh8md@4ax.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 17
Xref: g2news2.google.com rec.radio.amateur.homebrew:8006

"Bill Turner" <noway@nowhow.com> wrote in message
news:gnpcm291p22nj9f6a6omom03ldn0pqh8md@4ax.com...
> A typical ad on rec.radio.swap is free! As is www.eham.net and
> www.qth.com

Yeah, but I bet that there are hundreds or thousands of times more parts sold
on eBay than eHam & QTH combined... (and of course eBay isn't free) -- There's

```
definite value in a large selection and easy search/sorting functionality.

> It's not a bad idea, but I'd suggest you aim toward another market.
> Ham radio ain't it.

I doubt he'll make enough money to cover his web hosting services bill any
time soon. :-)





From 7145700313582989829
X-Google-Thread: fc2a5,c5388b65a0efe28a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: NEW HOBBY TYPE SWAP AND SHOP and its really unique
Date: 28 Nov 2006 19:42:29 GMT
Lines: 17
Message-ID: <slrnemp495.2ds.bit-bucket@shell.config.com>
References: <1164337263.917064.133170@l12g2000cwl.googlegroups.com>
<gnpcm291p22nj9f6a6omom03ldn0pqh8md@4ax.com> <12mp31fe855hbb9@corp.supernews.com>
X-Trace: individual.net bbzBlDQxmKZDatAAaWXK6wprE/uGYDnCLn88Cbq2SnEqIMNcRz
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news2.google.com rec.radio.amateur.homebrew:8007

On Tue, 28 Nov 2006 11:21:18 -0800, Joel Kolstad wrote:
> "Bill Turner" <noway@nowhow.com> wrote in message
> news:gnpcm291p22nj9f6a6omom03ldn0pqh8md@4ax.com...
>> A typical ad on rec.radio.swap is free! As is www.eham.net and
>> www.qth.com
>
> Yeah, but I bet that there are hundreds or thousands of times more parts sold
> on eBay than eHam & QTH combined... (and of course eBay isn't free) -- There's
> definite value in a large selection and easy search/sorting functionality.
>
>> It's not a bad idea, but I'd suggest you aim toward another market.
>> Ham radio ain't it.
>
> I doubt he'll make enough money to cover his web hosting services bill any
> time soon. :-)

I doubt if he'll read _any_ followups to his drive-by spam posting(s)


From 5979692355793266068
X-Google-Thread: 1159c6,ce1849f065a77a42
X-Google-Thread: 112d1e,ce1849f065a77a42
```

X-Google-Thread: 107cee,ce1849f065a77a42
X-Google-Thread: f849b,ce1849f065a77a42
X-Google-Thread: fc2a5,ce1849f065a77a42
X-Google-Thread: fcc6e,ce1849f065a77a42
X-Google-Thread: 1131b0,ce1849f065a77a42
X-Google-Attributes:
gid1159c6,gid112d1e,gid107cee,gidf849b,gidfc2a5,gidfcc6e,gid1131b0,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed2.dallas1.level3.net!news.level3.com!newsfeed.gamma.ru!Gamma.RU!news2.volia.net!newsfeed01.sul.t-online.de!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-03!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups:
alt.binaries.schematics.electronic,sci.electronics.cad,sci.electronics.design,sci.electronics.misc,comp.arch.embedded,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,sci.electronics.repair
Subject: Re: Those wonderful TOYS!
Date: Tue, 28 Nov 2006 11:43:28 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12mp4b1fnef4b99@corp.supernews.com>
References: <lqecsvc6q82hkf67jpl6lusp1r8cnuuf2b@4ax.com>
<3r8em2hgqap3pbpoqi7m4dghfuouloadfp@4ax.com>
<j61fm2t1fgt67i1qtcri332mb1u60sbcvi@4ax.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
X-DMCA-Complaints-To: dmca@supernews.com
Lines: 15
Xref: g2news2.google.com sci.electronics.cad:3778 sci.electronics.design:128686 sci.electronics.misc:8243 comp.arch.embedded:26190 rec.radio.amateur.homebrew:8008 rec.radio.amateur.antenna:22053 sci.electronics.repair:36294

"Spehro Pefhany" <speffSNIP@interlogDOTyou.knowwhat> wrote in message news:j61fm2t1fgt67i1qtcri332mb1u60sbcvi@4ax.com...

> Interesting. Someone must be out there flogging a set of components
> for radar guns.

If you look at the web page where they tore it apart, you'll see it's little more than a microwave transistor oscillator using a DRO, another transistor for the mix, and a PIC microcontroller for all the "smarts." The PCB itself is a pair of (planar) antennas for Tx and Rx.

Clever idea... I wouldn't be surprised if someone thought it up and realized they'd make a lot more money selling the design (and consulting on it) to toy copmanies than just publishing it in, e.g., QEX.

```
From -2545226456453194013
X-Google-Thread: fc2a5,3155a2bd24a2ebbf
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!80g2000cwy.googlegroups.com!not-for-
mail
From: "bcdlr" <on30ng@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Free-2007 WA1KPD Old Tyme Radio Calendar
Date: 28 Nov 2006 12:30:31 -0800
Organization: http://groups.google.com
Lines: 4
Message-ID: <1164745831.171268.294140@80g2000cwy.googlegroups.com>
References: <eZSdndGU7soVXPbYnZ2dnUVZ_tqdnZ2d@comcast.com>
NNTP-Posting-Host: 198.51.216.55
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164745837 8319 127.0.0.1 (28 Nov 2006 20:30:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 28 Nov 2006 20:30:37 +0000 (UTC)
In-Reply-To: <eZSdndGU7soVXPbYnZ2dnUVZ_tqdnZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.8)
Gecko/20061025 Firefox/1.5.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 80g2000cwy.googlegroups.com; posting-host=198.51.216.55;
   posting-account=cHaz4A0AAABSvgBXdvZeKRmzV_BI715_
Xref: g2news2.google.com rec.radio.amateur.homebrew:8009
```

Great calendar!!

Dan KB9JLO

```
From -1622893701212693748
X-Google-Thread: fc2a5,2e2886de6973968c,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe02.lga.POSTED!53ab2750!not-for-mail
From: sdeyoreo@hotmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: need help with xmission line xformer
Message-ID: <0oepm21bc3hsjo1io0n0ipru5724bf63h0@4ax.com>
X-Newsreader: Forte Free Agent 2.0/32.640
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 22
```

X-Trace:
nphhjmdkmllhpdkekannfilpcpbbolnmecdlgcppgnpnoomehahnihhbkekgikceapljhaefejlioefefm
hnolnjoedjpbgikenjmjidaleobfiabgpmbgondlmcjilfenfnojecgjgcfcij
NNTP-Posting-Date: Tue, 28 Nov 2006 16:00:54 MST
Date: Tue, 28 Nov 2006 18:01:04 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:8010

I work in a screening lab and have these 1:1 xmission line xformers:
http://www.futureelectronics.com/wirelessrf/docs/ETC1-1-13.pdf

I need to measure their insertion loss, per spec to 3 GHz. But I've never used one before and am not sure how to connect it.
I connected it as shown in this tutorial:
http://www.bytemark.com/products/tlttheory.htm
using an HP8753D in CW mode as a source and an HP power meter across the outputs as RL. Does that seems ok? I'm not sure about using the power meter across the output. Should I load one output and connect the power meter to the other, then measure insertion loss? Then switch load an p.m. and I would check amplitude balance also?

My problem is after "cal'ing out" my fixture, I get a bad dip in the insertion loss around 2GHz, like there's parallel C across the 'inductor' and it's resonating and opening up.

I made a short fixture on regular copper clad with 1/8inch wide traces for 50 ohm, short runs anyway, with SMAs in and out. Using the HP8753 in CW and a power meter, I took reference readings it with copper foil across where the DUT would be, then put in a DUT and took readings.

From -4480462133428349694
X-Google-Thread: fc2a5,d6aeeadd0ef79edd,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!4e73252e!not-for-mail
From: "Richard W. Solomon, W1KSZ" <w1ksz@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: WTD: QUALCOMM SYNTHESIZER BOARD (750 - 1000 MHz)
Reply-To: w1ksz@earthlink.net
Message-ID: <e9jpm2hpkfcbloudrh8q88rj9sh0eh93mi@4ax.com>
X-Newsreader: Forte Free Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 3
Date: Tue, 28 Nov 2006 23:58:46 GMT
NNTP-Posting-Host: 24.41.20.11
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1164758326 24.41.20.11 (Tue, 28 Nov 2006 15:58:46 PST)

NNTP-Posting-Date: Tue, 28 Nov 2006 15:58:46 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:8011

Anyone have one or know where I can get one ?

Thanks, Dick, W1KSZ

From -7804661108242694827
X-Google-Thread: fc2a5,9c1cfc4806e7e1cf
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!14g2000cws.googlegroups.com!not-for-mail
From: sailtamarack@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS430S Repair
Date: 28 Nov 2006 20:49:00 -0800
Organization: http://groups.google.com
Lines: 12
Message-ID: <1164775740.235193.154160@14g2000cws.googlegroups.com>
References: <1164724954.578824.323140@h54g2000cwb.googlegroups.com>
NNTP-Posting-Host: 70.66.131.246
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164775746 13856 127.0.0.1 (29 Nov 2006 04:49:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 29 Nov 2006 04:49:06 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: 14g2000cws.googlegroups.com; posting-host=70.66.131.246;
   posting-account=gXcV3gwAAACKhdV_aZ9TbpV32cSAnBGe
Xref: g2news2.google.com rec.radio.amateur.homebrew:8012

Check reviews of repair shops at eham:

http://www.eham.net/reviews/products/26
http://www.eham.net/forums/ModsAndRepairs/5895

Yahoo groups for advice:

http://groups.yahoo.com/group/Amateur-repairs/
http://groups.yahoo.com/group/TS-440/

Good luck - Roger

From -1843322146101669482
X-Google-Thread: fc2a5,9c1cfc4806e7e1cf

```
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe14.lga.POSTED!53ab2750!not-for-mail
From: Sam Morgan <ka5oai@cox.net>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Kenwood TS430S Repair
References: <1164724954.578824.323140@h54g2000cwb.googlegroups.com>
In-Reply-To: <1164724954.578824.323140@h54g2000cwb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 14
Message-ID: <Q_ebh.12214$XH4.6536@newsfe14.lga>
Date: Wed, 29 Nov 2006 06:25:24 -0600
NNTP-Posting-Host: 70.185.138.222
X-Complaints-To: admin@cox.net
X-Trace: newsfe14.lga 1164803120 70.185.138.222 (Wed, 29 Nov 2006 05:25:20 MST)
NNTP-Posting-Date: Wed, 29 Nov 2006 05:25:20 MST
Organization: Cox
Xref: g2news2.google.com rec.radio.amateur.homebrew:8013

tladotse wrote:
> I have a 430 and there is no power output. Receiver works fine. Don't
> know if it is the finals or the power management circuit. I have used
> the rig for several years and many hours of use. I was using Groton
> Electronics for repair but they went out of business. Does anyone know
> of a reliable place that will work on the Kenwood 430s.
> Thanks
>
B&B Technical Services fixed mine.
http://www.amateur-repairs.com/FULL_MONTE_TS-430.htm
Good service, did take some time, about 3 weeks, but the results were worth the
wait.

Usual disclaimer, not connected, just a satisfied customer.


From 3663707313664336496
X-Google-Thread: fc2a5,5aefa2e52d1d943d
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!128.230.129.106!news.maxwell.syr.edu!
news-rtr.nyroc.rr.com!news-out.nyroc.rr.com!twister.nyroc.rr.com.POSTED!53ab2750!
not-for-mail
From: T. Commuter <somewhere@someone.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: WTD: SuperCap Capacitor
Message-ID: <ekkkl2l1vah0cgc5m7jfusso1327qebloh@4ax.com>
References: <2gshl2llpsflj641odperchb27vtn6i88p@4ax.com>
X-Newsreader: Forte Agent 3.1/32.783
```

```
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 11
Date: Wed, 15 Nov 2006 00:36:07 GMT
NNTP-Posting-Host: 66.67.8.228
X-Complaints-To: abuse@rr.com
X-Trace: twister.nyroc.rr.com 1163550967 66.67.8.228 (Tue, 14 Nov 2006 19:36:07
EST)
NNTP-Posting-Date: Tue, 14 Nov 2006 19:36:07 EST
Organization: Road Runner
Xref: g2news2.google.com rec.radio.amateur.homebrew:7862

On Mon, 13 Nov 2006 22:31:28 GMT, "Richard W. Solomon, W1KSZ"
<w1ksz@earthlink.net> wrote:

>I have a Rockwell Jupiter GPS Engine and want to add the SuperCap.
>Any sugeestions where I can get one (0.22F).
>
>Thanks, Dick, W1KSZ

www.digikey.com

also try ebay, there are always people selling small quantities.


From 3041211668239957564
X-Google-Thread: 1009ad,849d03850b9fbf80
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,849d03850b9fbf80
X-Google-Thread: 107ada,40584154cf200ea9
X-Google-Attributes: gid1009ad,gidfc2a5,gid10bf43,gid107ada,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
alt.radio.scanner,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.am
ateur.misc
Subject: Re: ... -.-.  -. . . -.. ... ... ..-. ..-
From: Slow Code <my.mail@no.spam>
References: <1163467726.716965.68020@m73g2000cwd.googlegroups.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 14
Message-ID: <1nt6h.7436$ig4.5131@newsread2.news.pas.earthlink.net>
Date: Wed, 15 Nov 2006 00:41:33 GMT
NNTP-Posting-Host: 4.254.230.174
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1163551293 4.254.230.174 (Tue, 14 Nov
2006 16:41:33 PST)
NNTP-Posting-Date: Tue, 14 Nov 2006 16:41:33 PST
Xref: g2news2.google.com alt.radio.scanner:3719 rec.radio.amateur.homebrew:7863
```

```
rec.radio.amateur.policy:54354 rec.radio.amateur.misc:26060

Mark in the Dark, <kb9rqz-1@hotmail.com> wrote in
news:1163467726.716965.68020@m73g2000cwd.googlegroups.com:

> hopefully Sc will be able to understand the message in is favorite mode
>
> i may try some of the short titles I I have been using in morse not
> hard if I don't have to hurry at  all



You should really learn CW before you try to use it Markie, now go soak
your head in Keweenaw Bay you little turd.

SC



From -4824577924957958356
X-Google-Thread: 1009ad,849d03850b9fbf80
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,849d03850b9fbf80
X-Google-Thread: 107ada,40584154cf200ea9
X-Google-Attributes: gid1009ad,gidfc2a5,gid10bf43,gid107ada,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.maxwell.syr.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
alt.radio.scanner,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.am
ateur.misc
Subject: Re: ... -.-.  -. . . -.. ... ... ..-. ..-
Date: Tue, 14 Nov 2006 19:47:11 -0500
Message-ID: <trokl2hqeo8oivl2u0sd5o6bojsopbisv8@4ax.com>
References: <1163467726.716965.68020@m73g2000cwd.googlegroups.com>
<1nt6h.7436$ig4.5131@newsread2.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 19
NNTP-Posting-Date: 14 Nov 2006 23:52:20 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com alt.radio.scanner:3722 rec.radio.amateur.homebrew:7864
rec.radio.amateur.policy:54367 rec.radio.amateur.misc:26069

On Wed, 15 Nov 2006 00:41:33 GMT, Slow Code <my.mail@no.spam> wrote:

>Mark in the Dark, <kb9rqz-1@hotmail.com> wrote in
>news:1163467726.716965.68020@m73g2000cwd.googlegroups.com:
>
>> hopefully Sc will be able to understand the message in is favorite mode
>>
```

>> i may try some of the short titles I I have been using in morse not
>> hard if I don't have to hurry at all
>
>
>
>You should really learn CW before you try to use it Markie, now go soak
>your head in Keweenaw Bay you little turd.

why the message is clear enough
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From 1062484823723927633
X-Google-Thread: fc2a5,806fa2d9ac6b8cd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f16g2000cwb.googlegroups.com!not-for-mail
From: "Denny" <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ferrrite in linear tank coil ?
Date: 15 Nov 2006 04:39:50 -0800
Organization: http://groups.google.com
Lines: 11
Message-ID: <1163594390.633812.100730@f16g2000cwb.googlegroups.com>
References: <S_p6h.5885$IR4.4647@newssvr25.news.prodigy.net>
   <ejdisq$d6f$1@skeeter.ucdavis.edu>
NNTP-Posting-Host: 24.247.246.156
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1163594396 16675 127.0.0.1 (15 Nov 2006 12:39:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 15 Nov 2006 12:39:56 +0000 (UTC)
In-Reply-To: <ejdisq$d6f$1@skeeter.ucdavis.edu>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.8)
Gecko/20061025 Firefox/1.5.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f16g2000cwb.googlegroups.com; posting-host=24.247.246.156;
   posting-account=GhrC0g0AAACdrABM-CDx8Fhs5lKJR5q2
Xref: g2news2.google.com rec.radio.amateur.homebrew:7865

Many amps produced today use ferrite in the tank (usually toroids) for 160/80 meters... This is done to keep the physical size of the tank compartment minimized... Skipp has pointed out the drawback... You cannot saturate an air coil...

denny

Skipp checks in wrote:
> Sure, it's done quite a bit to increase the inductance. The fly in your
> soup is trying to keep the ferrite material from Saturation.

From 5774426622584322323
X-Google-Thread: fc2a5,806fa2d9ac6b8cd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ferrrite in linear tank coil ?
Date: Wed, 15 Nov 2006 07:21:46 -0800
Message-ID: <5sbml29dsjt2njd33gm4l763b1nieabvs6@4ax.com>
References: <S_p6h.5885$IR4.4647@newssvr25.news.prodigy.net>
<ejdisq$d6f$1@skeeter.ucdavis.edu>
<1163594390.633812.100730@f16g2000cwb.googlegroups.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node33-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1163591251 66.52.61.33 (15 Nov 2006 06:47:31 -0500)
Lines: 21
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.33
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.190.251.MISMATCH!news-out.readnews.com!transit4.readnews.com!
in.100proofnews.com!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:7866

ORIGINAL MESSAGE:

On 15 Nov 2006 04:39:50 -0800, "Denny" <k8do@mailblocks.com> wrote:

>Many amps produced today use ferrite in the tank (usually toroids) for
>160/80 meters... This is done to keep the physical size of the tank
>compartment minimized... Skipp has pointed out the drawback... You
>cannot saturate an air coil...

------------ REPLY FOLLOWS ------------

I could be wrong, but I don't think you will find ferrite coils in the
tank circuit of any commercially built amps. Powdered iron is
preferred for resonant circuits because it will not saturate at any
reasonable power level, unlike ferrites.

You will find ferrites in non resonant circuits such as filament or heater chokes.

73, Bill W6WRT

From -7915391453553945897
X-Google-Thread: fc2a5,806fa2d9ac6b8cd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-mail
From: "Telstar Electronics" <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ferrrite in linear tank coil ?
Date: 15 Nov 2006 10:29:18 -0800
Organization: http://groups.google.com
Lines: 9
Message-ID: <1163615358.097947.19460@m73g2000cwd.googlegroups.com>
References: <S_p6h.5885$IR4.4647@newssvr25.news.prodigy.net>
   <ejdisq$d6f$1@skeeter.ucdavis.edu>
   <1163594390.633812.100730@f16g2000cwb.googlegroups.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1163615364 30795 127.0.0.1 (15 Nov 2006 18:29:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 15 Nov 2006 18:29:24 +0000 (UTC)
In-Reply-To: <1163594390.633812.100730@f16g2000cwb.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=216.203.30.4;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news2.google.com rec.radio.amateur.homebrew:7867

> Many amps produced today use ferrite in the tank (usually toroids) for
> 160/80 meters... This is done to keep the physical size of the tank
> compartment minimized... Skipp has pointed out the drawback... You
> cannot saturate an air coil...

Wouldn't that also drastically reduce the Q of the tank?

www.telstar-electronics.com

From 5286358688213080570
X-Google-Thread: fc2a5,121e6ecb9ad212ef
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!headwall.stanford.edu!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!

newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr27.news.prodigy.net.POSTED!7b20fae2!not-for-mail
From: "Mike Young" <boat042-spam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <eir7bq$7ja@unix1.cc.ksu.edu> <12l2c1ipno3436d@corp.supernews.com>
<ej3mit$b83@unix1.cc.ksu.edu>
Subject: Re: How connect two EPP ports to "talk" between them?
Lines: 19
MIME-Version: 1.0
Content-Type: text/plain;
format=flowed;
charset="Windows-1252";
reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <_YK6h.15729$B31.4953@newssvr27.news.prodigy.net>
NNTP-Posting-Host: 68.249.172.181
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr27.news.prodigy.net 1163623354 ST000 68.249.172.181 (Wed, 15 Nov 2006 15:42:34 EST)
NNTP-Posting-Date: Wed, 15 Nov 2006 15:42:34 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
FKPO@MC@OHUARS\YYBIVNFXBWR\HPCTL@XT^OBPLAH[\RWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
TINTDDMVW[X\THOPXZRVOCJTUTPC_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Wed, 15 Nov 2006 20:42:34 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7868

<mcalhoun@ksu.edu> wrote in message news:ej3mit$b83@unix1.cc.ksu.edu...
>
> Neither do the computers I'm working with have Ethernet or USB.

16-bit NICs are $10 apiece, and likely free for the asking from almost any office's dead PC junk heap.

> Besides, there's always the fun of doing it, and that much time
> difference should even "pay" for the programming effort.

Seems to me your time would be better spent on things with lasting value.

Linux is free. You can boot directly off the CD image. CD drives are less than $20 new; likely free for the asking from the dead PC junk heap. Any pre-built kernel less than 5 years old will work with most NICs, PC filesystems, and CD drives. Total time and cost can be less than the kW-hrs you already burned musing about parallel port transfers.

From -7930364700617012688
X-Google-Thread: fc2a5,121e6ecb9ad212ef
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!newssvr27.news.prodigy.net.POSTED!69521213!not-for-mail
From: Bob <bobZstein@sbcglobal.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.8.0.7) Gecko/20060910 SeaMonkey/1.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How connect two EPP ports to "talk" between them?
References: <eir7bq$7ja@unix1.cc.ksu.edu> <12l2c1ipno3436d@corp.supernews.com> <ej3mit$b83@unix1.cc.ksu.edu> <_YK6h.15729$B31.4953@newssvr27.news.prodigy.net>
In-Reply-To: <_YK6h.15729$B31.4953@newssvr27.news.prodigy.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 27
Message-ID: <WXM6h.15740$B31.10696@newssvr27.news.prodigy.net>
NNTP-Posting-Host: 75.31.57.233
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr27.news.prodigy.net 1163631478 ST000 75.31.57.233 (Wed, 15 Nov 2006 17:57:58 EST)
NNTP-Posting-Date: Wed, 15 Nov 2006 17:57:58 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1: FKPGWU_O[RVABFD[LZKJOPHAWB\^PBQLGPQRZQ]KEYUNDQUCCNSUAACY@L[ZX__HGFD]JBJNSFXTOOGA_VWY^_HG@FW_HUTHOH]TBPGCO\P^PLP^@[GLHUK@WLECKFVL^TYG[@RMWQXIWM[SDDYWNLG_G[_BWUCHFY_Y@AS@Q[B\APPF@DCZM_PG_VSCPQZM
Date: Wed, 15 Nov 2006 22:57:58 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7869

Mike Young wrote:
> <mcalhoun@ksu.edu> wrote in message news:ej3mit$b83@unix1.cc.ksu.edu...
>>
>> Neither do the computers I'm working with have Ethernet or USB.
>
> 16-bit NICs are $10 apiece, and likely free for the asking from almost
> any office's dead PC junk heap.
>
>> Besides, there's always the fun of doing it, and that much time
>> difference should even "pay" for the programming effort.
>
> Seems to me your time would be better spent on things with lasting value.
>
> Linux is free. You can boot directly off the CD image. CD drives are
> less than $20 new; likely free for the asking from the dead PC junk
> heap. Any pre-built kernel less than 5 years old will work with most
> NICs, PC filesystems, and CD drives. Total time and cost can be less
> than the kW-hrs you already burned musing about parallel port transfers.
>

>
I bought two brand new Airlink NICs for $0.99 each from Fry's
Electronics a few months ago. How could I not pass up a bargain like that?

Bob

--
When replying direct, remove the Z in my email address.

From 3996116213978381732
X-Google-Thread: fc2a5,121e6ecb9ad212ef
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: craigm <none@domain.invalid>
Subject: Re: How connect two EPP ports to "talk" between them?
Newsgroups: rec.radio.amateur.homebrew
References: <eir7bq$7ja@unix1.cc.ksu.edu> <12l2c1ipno3436d@corp.supernews.com>
<ej3mit$b83@unix1.cc.ksu.edu> <_YK6h.15729$B31.4953@newssvr27.news.prodigy.net>
Lines: 26
User-Agent: KNode/0.9.2
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <MDQ6h.75$Vy4.699824@news.sisna.com>
Date: Wed, 15 Nov 2006 21:10:18 -0600
NNTP-Posting-Host: 67.54.184.100
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1163646572 67.54.184.100 (Wed, 15 Nov 2006 20:09:32 MST)
NNTP-Posting-Date: Wed, 15 Nov 2006 20:09:32 MST
Organization: Internet News Service
X-Received-Date: Wed, 15 Nov 2006 20:09:32 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7870

Mike Young wrote:

> <mcalhoun@ksu.edu> wrote in message news:ej3mit$b83@unix1.cc.ksu.edu...
>>
>> Neither do the computers I'm working with have Ethernet or USB.
>
> 16-bit NICs are $10 apiece, and likely free for the asking from almost any
> office's dead PC junk heap.
>
>> Besides, there's always the fun of doing it, and that much time
>> difference should even "pay" for the programming effort.
>
> Seems to me your time would be better spent on things with lasting value.
>
> Linux is free. You can boot directly off the CD image. CD drives are less
> than $20 new; likely free for the asking from the dead PC junk heap. Any
> pre-built kernel less than 5 years old will work with most NICs, PC

> filesystems, and CD drives. Total time and cost can be less than the
> kW-hrs you already burned musing about parallel port transfers.

Simply using google to find a laplink parallel cable is quick, too.

http://www.nullmodem.com/LapLink.htm

```
From -8054168881255164887
X-Google-Thread: fc2a5,98d362553dba610b,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!
trndny03.POSTED!e3303ecb!not-for-mail
From: "Carl Domanico" <vze2686b@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Wanted Collins 30L-1 Round
Lines: 14
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <CfU6h.3829$ZN1.764@trndny03>
Date: Thu, 16 Nov 2006 07:16:50 GMT
NNTP-Posting-Host: 70.107.197.181
X-Complaints-To: abuse@verizon.net
X-Trace: trndny03 1163661410 70.107.197.181 (Thu, 16 Nov 2006 02:16:50 EST)
NNTP-Posting-Date: Thu, 16 Nov 2006 02:16:50 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:7871
```

Hi, I'm looking for a Collins 30L-1 Round Emblem, High Frequency, Linear
Amplifer. Not looking for any junk, actually I want one in excellent
condition, Must be Round Emblem... Prefer one that has already been
refurbished, things such as power supply, caps , etc...So as I do not have
to do it...Although I've restored a few of them...I just want one in
Excellent to Mint Condition...
If anyone out there has one of these amps, please feel free to e-mail me and
if you like call 718-331-7427

Thanks a Lot
Carl
N2MFW

```
From 3166730326624718854
```

```
X-Google-Thread: fc2a5,fc14c8fa185ba850,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-
mail
From: "Brandon Lands" <Lion623@mail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Important Information
Date: 16 Nov 2006 04:03:04 -0800
Organization: http://groups.google.com
Lines: 2
Message-ID: <1163678584.144224.271690@b28g2000cwb.googlegroups.com>
NNTP-Posting-Host: 66.174.79.227
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1163678589 32342 127.0.0.1 (16 Nov 2006 12:03:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 16 Nov 2006 12:03:09 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=66.174.79.227;
   posting-account=FBgz3w0AAACiKW8dAW07WsZ4hDk0z730
Xref: g2news2.google.com rec.radio.amateur.homebrew:7872
```

Check out: www.Brandon-Lands.com

```
From 8389825329211669133
X-Google-Thread: fc2a5,806fa2d9ac6b8cd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-
mail
From: "Denny" <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ferrrite in linear tank coil ?
Date: 16 Nov 2006 06:59:53 -0800
Organization: http://groups.google.com
Lines: 10
Message-ID: <1163689193.760802.177380@e3g2000cwe.googlegroups.com>
References: <S_p6h.5885$IR4.4647@newssvr25.news.prodigy.net>
   <ejdisq$d6f$1@skeeter.ucdavis.edu>
   <1163594390.633812.100730@f16g2000cwb.googlegroups.com>
   <1163615358.097947.19460@m73g2000cwd.googlegroups.com>
NNTP-Posting-Host: 24.247.246.156
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1163689199 26680 127.0.0.1 (16 Nov 2006 14:59:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 16 Nov 2006 14:59:59 +0000 (UTC)
```

In-Reply-To: <1163615358.097947.19460@m73g2000cwd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.8)
Gecko/20061025 Firefox/1.5.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=24.247.246.156;
   posting-account=GhrC0g0AAACdrABM-CDx8Fhs5lKJR5q2
Xref: g2news2.google.com rec.radio.amateur.homebrew:7873

Well, of course you are right that the high permeability stuff in the
tank is iron not ferrite...

Cut me some slack - I'm old enough to be your grandfather, I didn't
have my nap, and that cute little nurse they send out to watch me has a
habit of bending waaay over, which instantly diverts blood flow from
the brain...

denny / k8do

From -4262539477201142162
X-Google-Thread: fc2a5,806fa2d9ac6b8cd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe04.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <S_p6h.5885$IR4.4647@newssvr25.news.prodigy.net>
<ejdisq$d6f$1@skeeter.ucdavis.edu>
<1163594390.633812.100730@f16g2000cwb.googlegroups.com>
<1163615358.097947.19460@m73g2000cwd.googlegroups.com>
Subject: Re: ferrrite in linear tank coil ?
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <Lc%6h.18$z01.14@newsfe04.lga>
X-Trace:
noffecneefnkbhgfkannfilpcpbbolnmefdkbcnplkhdjljknicfceledepkikoolhlefpnpglhfdcnhdc
jkaccocfcbeohoejpkaddlfoepjfjnhebpombkapmbafejhlimokjclcciclpf
NNTP-Posting-Date: Thu, 16 Nov 2006 08:11:39 MST
Date: Thu, 16 Nov 2006 10:11:34 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:7874

If the preceding stage is clean, does it matter? The main point of the tank
is impedance matching. If the stage before isn't too clean it can also
double as a filter, but if the input to the tank is pretty clean, then the Q

```
doesn't really matter all that much.  Indeed, lower Q is an advantage in
terms of being able to operate across the band without retuning.

..

"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
news:1163615358.097947.19460@m73g2000cwd.googlegroups.com...
>> Many amps produced today use ferrite in the tank (usually toroids) for
>> 160/80 meters...  This is done to keep the physical size of the tank
>> compartment minimized...  Skipp has pointed out the drawback... You
>> cannot saturate an air coil...
>
> Wouldn't that also drastically reduce the Q of the tank?
>
> www.telstar-electronics.com
>




From -8848753552638629737
X-Google-Thread: fc2a5,806fa2d9ac6b8cd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ferrrite in linear tank coil ?
Date: Thu, 16 Nov 2006 07:38:17 -0800
Message-ID: <nc1pl25a65bd3sinnem2r55hdk7rdv1t2c@4ax.com>
References: <S_p6h.5885$IR4.4647@newssvr25.news.prodigy.net>
<ejdisq$d6f$1@skeeter.ucdavis.edu>
<1163594390.633812.100730@f16g2000cwb.googlegroups.com>
<1163615358.097947.19460@m73g2000cwd.googlegroups.com>
<1163689193.760802.177380@e3g2000cwe.googlegroups.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node17-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1163678640 66.52.61.17 (16 Nov 2006 07:04:00 -0500)
Lines: 13
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.17
Path: g2news2.google.com!news2.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!
newshosting.com!news.alt.net!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:7875

ORIGINAL MESSAGE:

On 16 Nov 2006 06:59:53 -0800, "Denny" <k8do@mailblocks.com> wrote:
```

>Cut me some slack - I'm old enough to be your grandfather

------------ REPLY FOLLOWS ------------

Wow... you must be really old! Both my grandfathers died more than 30
years ago in their 80's. :-)

Bill, W6WRT

From -5039898443107046524
X-Google-Thread: fc2a5,806fa2d9ac6b8cd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ferrrite in linear tank coil ?
Date: Thu, 16 Nov 2006 07:47:00 -0800
Message-ID: <oh1pl2dguunk6nvfg7d5npg272rnfbcf6p@4ax.com>
References: <S_p6h.5885$IR4.4647@newssvr25.news.prodigy.net>
<ejdisq$d6f$1@skeeter.ucdavis.edu>
<1163594390.633812.100730@f16g2000cwb.googlegroups.com>
<1163615358.097947.19460@m73g2000cwd.googlegroups.com>
<Lc%6h.18$z01.14@newsfe04.lga>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node17-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1163679164 66.52.61.17 (16 Nov 2006 07:12:44 -0500)
Lines: 23
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.17
Path: g2news2.google.com!news3.google.com!news.glorb.com!bigfeed2.bellsouth.net!news.bellsouth.net!hwmnpeer01.phx!news.highwinds-media.com!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:7876

ORIGINAL MESSAGE:

On Thu, 16 Nov 2006 10:11:34 -0500, "xpyttl"
<xpyttl_NOSPAM@earthling.net> wrote:

>If the preceding stage is clean, does it matter? The main point of the tank
>is impedance matching. If the stage before isn't too clean it can also
>double as a filter, but if the input to the tank is pretty clean, then the Q
>doesn't really matter all that much. Indeed, lower Q is an advantage in
>terms of being able to operate across the band without retuning.

------------ REPLY FOLLOWS ------------

What you say is true only for class A operation. In any other class,
the plate tank acts as a "flywheel" to provide the missing portion of

the RF cycle, and in that application, Q is important. If the Q is too low, the "flywheel" runs out of energy and severe distortion can result. A Q of at least 10 is recommended for that reason, and Q's of 12-15 are often used for better harmonic suppression. Q's above about 20 are a bit much and can lead to excessive heating of the tank coil and a narrow tuning bandwidth, but are otherwise pretty much harmless.

Bill, W6WRT

From -4375295921917502451
X-Google-Thread: fc2a5,121e6ecb9ad212ef
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!newshub.sdsu.edu!
headwall.stanford.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How connect two EPP ports to "talk" between them?
Date: 16 Nov 2006 11:40:16 -0600
Organization: Kansas State University
Lines: 28
Message-ID: <eji7q0$4bc@unix1.cc.ksu.edu>
References: <eir7bq$7ja@unix1.cc.ksu.edu> <12l2c1ipno3436d@corp.supernews.com>
<ej3mit$b83@unix1.cc.ksu.edu> <_YK6h.15729$B31.4953@newssvr27.news.prodigy.net>
NNTP-Posting-Host: unix1.cc.ksu.edu
X-Trace: cnn.cns.ksu.edu 1163698820 26498 129.130.12.3 (16 Nov 2006 17:40:20 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Thu, 16 Nov 2006 17:40:20 +0000 (UTC)
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7877

>> Neither do the computers I'm working with have Ethernet or USB.

>16-bit NICs are $10 apiece, and likely free for the asking from almost any
>office's dead PC junk heap.

And I have several. Have you ever made a NIC work with DOS?
If so, I'd sure love to learn how you did it.

>> Besides, there's always the fun of doing it, and that much time
>> difference should even "pay" for the programming effort.

>Seems to me your time would be better spent on things with lasting value.
>Linux is free....

Linux may be free, but the aftermath of installing Linux would cost YEARS of effort to "port" the:
  801 FORTRAN programs I currently use
  225 Pascal programs I currently use
  452 DOS .BAT and Norton's DOS .BTM scripts I currently use.

No, converting to Linux is NOT free, especially at my age!

--
--Myron A. Calhoun.
Five boxes preserve our freedoms: soap, ballot, witness, jury, and cartridge
NRA Life Member and Rifle, Pistol, & Home Firearm Safety Certified Instructor
Certified Instructor for the Kansas Concealed-Carry Handgun license

From 1593222919630187759
X-Google-Thread: fc2a5,121e6ecb9ad212ef
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!headwall.stanford.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How connect two EPP ports to "talk" between them?
Date: 16 Nov 2006 11:46:52 -0600
Organization: Kansas State University
Lines: 20
Message-ID: <eji86c$4n0@unix1.cc.ksu.edu>
References: <eir7bq$7ja@unix1.cc.ksu.edu> <12l2c1ipno3436d@corp.supernews.com> <ej3mit$b83@unix1.cc.ksu.edu> <_YK6h.15729$B31.4953@newssvr27.news.prodigy.net> <MDQ6h.75$Vy4.699824@news.sisna.com>
NNTP-Posting-Host: unix1.cc.ksu.edu
X-Trace: cnn.cns.ksu.edu 1163699218 26639 129.130.12.3 (16 Nov 2006 17:46:58 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Thu, 16 Nov 2006 17:46:58 +0000 (UTC)
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7878

>Simply using google to find a laplink parallel cable is quick, too.
>http://www.nullmodem.com/LapLink.htm

Of course, even LapLink's "parallel" cable only transfers 4 bits at a time vs. the 8-bits that are possible on an EPP port.

And LapLink does NOT run in the background (as does RIFS - Remote Installable File Server, which, alas, uses a serial port and is thus also much slower than a fully parallel port.)

I find it interesting: lots of people have suggested I do something ELSE, but no one has answered the question itself. Obviously I posted my question in the wrong newsgroups! Oh, well; nothing ventured, nothing gained (and only a little time lost).

--
--Myron A. Calhoun.
Five boxes preserve our freedoms: soap, ballot, witness, jury, and cartridge
NRA Life Member and Rifle, Pistol, & Home Firearm Safety Certified Instructor
Certified Instructor for the Kansas Concealed-Carry Handgun license

From 6838347423733844863
X-Google-Thread: fc2a5,121e6ecb9ad212ef
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!news2.euro.net!213.132.189.2.MISMATCH!multikabel.net!feed20.multikabel.net!sn-xt-ams-06!sn-xt-ams-08!sn-ams!sn-feed-ams-03!sn-post-ams-02!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How connect two EPP ports to "talk" between them?
Date: Thu, 16 Nov 2006 13:57:05 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12lpnliconhl96d@corp.supernews.com>
References: <eir7bq$7ja@unix1.cc.ksu.edu> <12l2c1ipno3436d@corp.supernews.com> <ej3mit$b83@unix1.cc.ksu.edu> <_YK6h.15729$B31.4953@newssvr27.news.prodigy.net> <eji7q0$4bc@unix1.cc.ksu.edu>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-Complaints-To: abuse@supernews.com
Lines: 32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7879

<mcalhoun@ksu.edu> wrote in message news:eji7q0$4bc@unix1.cc.ksu.edu...
> And I have several. Have you ever made a NIC work with DOS?
> If so, I'd sure love to learn how you did it.

NICs work fine in DOS. At least back with Windows NT (and probably still 2000... possibly not XP anymore though) you could tell it to build you a "DOS startup disk" which configured most everything you needed to connect to a NetBEUI-based server (which is still supported in XP, etc.). Many network cards still come with DOS drivers, and of those that don't, many really cheap ones are still "NE2000 compatible" and generic drivers can be found. I'm sure you can Google for the details -- I haven't done this in a number of years, but very commonly what I used to do was make DOS network startup disks so that I could connect to a server to pull over a complete hard drive image to set up the machine using, e.g., Norton Ghost.

> Linux may be free, but the aftermath of installing Linux would cost
> YEARS of effort to "port" the:
> 801 FORTRAN programs I currently use
> 225 Pascal programs I currently use
> 452 DOS .BAT and Norton's DOS .BTM scripts I currently use.

There's a very good chance the vast majority of your programs would work under WINE in Linux. That being said, Linux -- especially with the "popular" desktops such as KDE -- has gotten to the point of requiring powerful enough hardware that, if your PCs wouldn't "comfortably" run at least Windows 2000, you probably shouldn't bother with Linux as you probably won't have a pleasant experience if you just perform a "default" install of any contemporary distributions.

---Joel

From 8329620914268121899
X-Google-Thread: fc2a5,121e6ecb9ad212ef
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-03!sn-xt-sjc-09!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How connect two EPP ports to "talk" between them?
Date: Thu, 16 Nov 2006 13:59:37 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12lpnqa2vinps0d@corp.supernews.com>
References: <eir7bq$7ja@unix1.cc.ksu.edu> <12l2c1ipno3436d@corp.supernews.com> <ej3mit$b83@unix1.cc.ksu.edu> <_YK6h.15729$B31.4953@newssvr27.news.prodigy.net> <MDQ6h.75$Vy4.699824@news.sisna.com> <eji86c$4n0@unix1.cc.ksu.edu>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-Complaints-To: abuse@supernews.com
Lines: 10
Xref: g2news2.google.com rec.radio.amateur.homebrew:7880

<mcalhoun@ksu.edu> wrote in message news:eji86c$4n0@unix1.cc.ksu.edu...

> I find it interesting: lots of people have suggested I do something
> ELSE, but no one has answered the question itself.

You might be better off in one of the "historical" computer groups (maybe alt.folklore.computers); what you're wanting to do requires knowledge that's simply obsolete by current standards, so you won't find that many people who still possess it.

From -1220983848869886545
X-Google-Thread: fc2a5,121e6ecb9ad212ef
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!news.tu-darmstadt.de!newsfeed.hanau.net!news-fra1.dfn.de!news.tele.dk!feed118.news.tele.dk!not-for-mail
From: "Christen Fihl" <look_at_HSPascal.fihl.net@nospam.plz>

Newsgroups: rec.radio.amateur.homebrew
References: <eir7bq$7ja@unix1.cc.ksu.edu>
Subject: Re: How connect two EPP ports to "talk" between them?
Date: Thu, 16 Nov 2006 23:07:04 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Lines: 67
Message-ID: <455ce108$0$3503$edfadb0f@dread11.news.tele.dk>
Organization: TDC Totalloesninger
NNTP-Posting-Host: 80.166.185.88
X-Trace: 1163714824 dread11.news.tele.dk 3503 80.166.185.88:42194
X-Complaints-To: abuse@post.tele.dk
Xref: g2news2.google.com rec.radio.amateur.homebrew:7881

I did this back in 1984 when I got a Toshiba portable with the new 3" floppies, just to get files back and forth.
Later somebody made some commercial products (pdq, lablink, ...)

In short I did:

Server end is a program that reads requeste from other pc, and reads or writes disk sectors.

Client side has a device driver, disk type, so I now has a D: on that computer.
I took the memdisk example from the tech books, and rewrote the read and write sectors to go to other computer.

It works very nice. Only trashed a few disks when doing small programming mistakes ;-)

Now the interface between the pc's, which first was tested for function of rx/tx, like Send512Bytes(SomeData)

I had the old parallelport, so I had 5 bits and used 4 for data and 1 for strobe.
I did not use interrupts, as the server just sat there waiting for the other end to start flipping the strobe bit.

```
Procedure SendHalfByte(Strobe,B: Byte);
begin
  Port():= Strobe+ (B and $0F);
  SleepShort;
  Port():= (1 xor Strobe)+ (B and $0F);
  SleepShort;
end;

Procedure Send1Byte(B: Byte);
begin
  SendHalfByte($00,B);
  SendHalfByte($80,B shr 4);
end;
```

The receiver end will do

```
Function Read1Byte: Byte;
var X: Byte;
begin
  repeat until StrobeBit<>0;
  X:=Port() and $0F;
  repeat until StrobeBit=0;
  Result:=X + (Port() shl 4);
end;
```

Use Send1Byte and Read1Byte, and you have data. Make some framing like
`DataToSend:= LF + MyData + CR`
and it is easy to check for correct reception.

I managed to put some 50KBytes between two PC's in 198x, at 8MHz I guess.

PS: All coding above is out of my head, and was done in assembler back then.

--
Christen Fihl
OZ1AAB
http://HSPascal.Fihl.net/

```
From -7137588997877023499
X-Google-Thread: fc2a5,121e6ecb9ad212ef
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f16g2000cwb.googlegroups.com!not-for-
mail
From: "kl7r" <kl7r@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How connect two EPP ports to "talk" between them?
Date: 16 Nov 2006 14:13:31 -0800
Organization: http://groups.google.com
Lines: 12
Message-ID: <1163715211.808168.326560@f16g2000cwb.googlegroups.com>
References: <eir7bq$7ja@unix1.cc.ksu.edu>
NNTP-Posting-Host: 146.63.86.102
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1163715217 28374 127.0.0.1 (16 Nov 2006 22:13:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 16 Nov 2006 22:13:37 +0000 (UTC)
In-Reply-To: <eir7bq$7ja@unix1.cc.ksu.edu>
```

User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.8) Gecko/20050511,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f16g2000cwb.googlegroups.com; posting-host=146.63.86.102;
   posting-account=LnEGLQ0AAACio-_W9jGW8HUihKaBaJR7
Xref: g2news2.google.com rec.radio.amateur.homebrew:7882

Have you thought about using PLIP to do tcpip over your parallel ports?

mcalhoun@ksu.edu wrote:
> Hope this isn't too far off-topic, but maybe somebody who has actually
> done something homebrew like this can give me some pointers.
>
> I'd like to connect two PC's with EPP ports so they could "talk" to each
> other (mono-directional at any instant but reversible -- probably by
> passing a "token" back and forth -- and preferably NOT using interrupts

From -5325615807099277595
X-Google-Thread: fc2a5,121e6ecb9ad212ef
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-mail
From: "kl7r" <kl7r@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How connect two EPP ports to "talk" between them?
Date: 16 Nov 2006 14:26:35 -0800
Organization: http://groups.google.com
Lines: 12
Message-ID: <1163715995.665370.128360@m73g2000cwd.googlegroups.com>
References: <eir7bq$7ja@unix1.cc.ksu.edu>
   <1163715211.808168.326560@f16g2000cwb.googlegroups.com>
NNTP-Posting-Host: 146.63.86.102
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1163716001 30310 127.0.0.1 (16 Nov 2006 22:26:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 16 Nov 2006 22:26:41 +0000 (UTC)
In-Reply-To: <1163715211.808168.326560@f16g2000cwb.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.8) Gecko/20050511,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=146.63.86.102;
   posting-account=LnEGLQ0AAACio-_W9jGW8HUihKaBaJR7
Xref: g2news2.google.com rec.radio.amateur.homebrew:7883

kl7r wrote:
> Have you thought about using PLIP to do tcpip over your parallel ports?
>

Check out :

http://www.crynwr.com/ for DOS packet drivers
http://tldp.org/HOWTO/PLIP-9.html for information on DOS/LINUX PLIP connections

From -1024722590360438601
X-Google-Thread: fc2a5,121e6ecb9ad212ef
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: craigm <none@domain.invalid>
Subject: Re: How connect two EPP ports to "talk" between them?
Newsgroups: rec.radio.amateur.homebrew
References: <eir7bq$7ja@unix1.cc.ksu.edu> <12l2c1ipno3436d@corp.supernews.com> <ej3mit$b83@unix1.cc.ksu.edu> <_YK6h.15729$B31.4953@newssvr27.news.prodigy.net> <MDQ6h.75$Vy4.699824@news.sisna.com> <eji86c$4n0@unix1.cc.ksu.edu>
Lines: 49
User-Agent: KNode/0.9.2
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <Aq77h.126$FD4.827465@news.sisna.com>
Date: Thu, 16 Nov 2006 18:33:12 -0600
NNTP-Posting-Host: 67.54.184.100
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1163723552 67.54.184.100 (Thu, 16 Nov 2006 17:32:32 MST)
NNTP-Posting-Date: Thu, 16 Nov 2006 17:32:32 MST
Organization: Internet News Service
X-Received-Date: Thu, 16 Nov 2006 17:32:32 MST (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7884

mcalhoun@ksu.edu wrote:

>>Simply using google to find a laplink parallel cable is quick, too.
>>http://www.nullmodem.com/LapLink.htm
>
> Of course, even LapLink's "parallel" cable only transfers 4 bits
> at a time vs. the 8-bits that are possible on an EPP port.

You asked how to connect tow parallel ports. The link gives two examples. The examples are ones that worked with commercial software. (Hint: that means they would probably work for you. It may also meet your criteria for reliability.)

>
> And LapLink does NOT run in the background (as does RIFS - Remote
> Installable File Server, which, alas, uses a serial port and is
> thus also much slower than a fully parallel port.)

Your original post made no mention of specific software being a restriction.
It did say this was a one-off job without out a speed requirement.

>
> I find it interesting: lots of people have suggested I do something
> ELSE, but no one has answered the question itself.

The link answered the question in the subject.

> Obviously I
> posted my question in the wrong newsgroups! Oh, well; nothing
> ventured, nothing gained (and only a little time lost).
>

Your fault the time was lost. Simple google searches would have given you
what you wanted.

The search to find the earlier link was on "laplink parallel cable".

If you do a search on "connecting epp ports", one of the links will be this
page.

http://www.lvr.com/jansfaq.htm

Scroll down to the bottom to see a problem with connecting all data bits.
(You did say you wanted a reliable solution.)

Yes, this may have been the wrong newsgroup. That is not the fault of anyone
who replied to you.

From -7001428931834807864
X-Google-Thread: fc2a5,121e6ecb9ad212ef
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!newssvr13.news.prodigy.com.POSTED!7b20fae2!not-for-mail
From: "Mike Young" <boat042-spam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <eir7bq$7ja@unix1.cc.ksu.edu> <12l2c1ipno3436d@corp.supernews.com> <ej3mit$b83@unix1.cc.ksu.edu> <_YK6h.15729$B31.4953@newssvr27.news.prodigy.net> <eji7q0$4bc@unix1.cc.ksu.edu>
Subject: Re: How connect two EPP ports to "talk" between them?

```
Lines: 40
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="Windows-1252";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <5X87h.6933$Sw1.2931@newssvr13.news.prodigy.com>
NNTP-Posting-Host: 76.210.19.54
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr13.news.prodigy.com 1163729729 ST000 76.210.19.54 (Thu, 16 Nov
2006 21:15:29 EST)
NNTP-Posting-Date: Thu, 16 Nov 2006 21:15:29 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
O@ZAR[SEBBTACFD[LZKJOPHAWB\^PBQLGPQRJVMHQAVTUZ]CLNTCPFK[WDXDHV[K^FCGJCJLPF_D_NCC@F
UG^Q\DINVAXSLIFXYJSSCCALP@PB@\OS@BITWAH\CQZKJMMD^SJA^NXA\GVLSRBD^M_NW_F[YLVTWIGAXA
QBOATKBBQRXECDFDMQ\DZFUE@\JM
Date: Fri, 17 Nov 2006 02:15:29 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7885

<mcalhoun@ksu.edu> wrote in message news:eji7q0$4bc@unix1.cc.ksu.edu...
>>> Neither do the computers I'm working with have Ethernet or USB.
>
>>16-bit NICs are $10 apiece, and likely free for the asking from almost any
>>office's dead PC junk heap.
>
> And I have several.  Have you ever made a NIC work with DOS?
> If so, I'd sure love to learn how you did it.

Wollongong. Beame and Whiteside. To name two.

But that's going backwards. With one foot in the grave already, you need to
keep moving forward, not back. If it runs DOS, it'll run Linux.

>
>
>>> Besides, there's always the fun of doing it, and that much time
>>> difference should even "pay" for the programming effort.
>
>>Seems to me your time would be better spent on things with lasting value.
>>Linux is free....
>
> Linux may be free, but the aftermath of installing Linux would cost
> YEARS of effort to "port" the:
>  801 FORTRAN programs I currently use
>  225 Pascal  programs I currently use
>  452 DOS .BAT and Norton's DOS .BTM scripts I currently use.
```

It boots off the CD. I know I mentioned that. It's worth mentioning a second time. And a third: It boots off the CD. No installing, no configuring... Just boot it, FTP your files, and get on with whatever it is you're trying to do.

>
> No, converting to Linux is NOT free, especially at my age!

Yeah, I know just what you mean. About the age thing, that is. Time's wasting; best get to it.

From -2982100420110663719
X-Google-Thread: fc2a5,121e6ecb9ad212ef
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f16g2000cwb.googlegroups.com!not-for-mail
From: "laura halliday" <marsgal42@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How connect two EPP ports to "talk" between them?
Date: 16 Nov 2006 21:20:32 -0800
Organization: http://groups.google.com
Lines: 21
Message-ID: <1163740831.965507.86080@f16g2000cwb.googlegroups.com>
References: <eir7bq$7ja@unix1.cc.ksu.edu><12l2c1ipno3436d@corp.supernews.com>
   <ej3mit$b83@unix1.cc.ksu.edu>
   <_YK6h.15729$B31.4953@newssvr27.news.prodigy.net>
   <MDQ6h.75$Vy4.699824@news.sisna.com>
   <eji86c$4n0@unix1.cc.ksu.edu>
NNTP-Posting-Host: 207.81.184.233
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1163740846 24947 127.0.0.1 (17 Nov 2006 05:20:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 17 Nov 2006 05:20:46 +0000 (UTC)
In-Reply-To: <eji86c$4n0@unix1.cc.ksu.edu>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7) Gecko/20040618,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f16g2000cwb.googlegroups.com; posting-host=207.81.184.233;
   posting-account=hajlLgwAAABnEIYWRhxcLRahLr8hJUY4
Xref: g2news2.google.com rec.radio.amateur.homebrew:7886

mcalhoun@ksu.edu wrote:

> I find it interesting: lots of people have suggested I do something
> ELSE, but no one has answered the question itself. Obviously I
> posted my question in the wrong newsgroups! Oh, well; nothing
> ventured, nothing gained (and only a little time lost).

Maybe it was the wrong *question*. Kindly refrain from
criticizing a forum like this for not being your personal
research staff.

As the discussion showed, what you really want to do
is transfer files. Fine. If you want to transfer files, a null
modem cable (an off the shelf item) and a couple of
copies of kermit (ditto) will transfer a lot of data. I
transferred a Windows 95 CD to a laptop once that way.

```
Laura Halliday VE7LDH     "That's a totally illegal,
Grid: CN89mg                    madcap scheme. I like it!"
ICBM: 49 16.05 N 122 56.92 W        - H. Pearce
```

```
From 9083076264761039743
X-Google-Thread: fc2a5,2ea566d6e8897032
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!news1.optus.net.au!optus!
newsfeeder.syd.optusnet.com.au!news.optusnet.com.au!not-for-mail
From: "Joe" <.>
Newsgroups: rec.radio.amateur.homebrew
References: <454f2486$0$3073$afc38c87@news.optusnet.com.au>
<1163501450.678460.58950@e3g2000cwe.googlegroups.com>
Subject: Re: Tektronix 2215A
Date: Fri, 17 Nov 2006 23:06:42 +1100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Lines: 38
Message-ID: <455da5d6$0$3073$afc38c87@news.optusnet.com.au>
NNTP-Posting-Host: 220.239.195.55
X-Trace: 1163765206  3073 220.239.195.55
Xref: g2news2.google.com rec.radio.amateur.homebrew:7887
```

Thanks to all who replied to my query. I have found it is the FET which is
faulty, have a number of spares available. Haven't been able to get to it
yet, my young brother has been visiting, but will start on it this weekend.
Joe

"Andreas Tekman" <and7@bigfoot.com> wrote in message
news:1163501450.678460.58950@e3g2000cwe.googlegroups.com...
>
> Joe schrieb:
>
> > Hello all
> > I am looking for a schematic on the above oscilloscope. The thing blows
the

> > fuse at switch on. Any advice would also be appreciated. I know there
are
> > many of these old units out there
> > Thanks in advance
> > Joe
> > vk3bki
>
> Pwr supply is similar in all: Tektronix 2213/2215/2213A. bama.sbc.edu
> as a starting point for free download.
>
> check postings of Jim Yanik and others in sci.electronics.* for this
> type of fault.
>
> This type of Tektronix scope has an SMPS with a primary pre-req
> circuit. Faults, repair hints and corrections are often described in
> e.g. sci.electronics.repair and similar.
>
> Most often: TL597 IC blown, FET blown, fast recorvery diode blown.
>
>
> hth,
> Andreas
>

From 1164691435585714566
X-Google-Thread: fc2a5,a67a9fcdb82fcbb6
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!news1.optus.net.au!optus!
newsfeeder.syd.optusnet.com.au!news.optusnet.com.au!not-for-mail
From: "Joe" <.>
Newsgroups: rec.radio.amateur.homebrew
References: <1163184647.845070.101830@h48g2000cwc.googlegroups.com>
<xnl5h.15905$j7.333534@news.indigo.ie>
<di5dl2tkmtnb8cmcaf5ir79nrmo9g87lqd@4ax.com>
Subject: Re: how much can dummy load carbon resistors stand
Date: Fri, 17 Nov 2006 23:12:59 +1100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Lines: 22
Message-ID: <455da74f$0$29167$afc38c87@news.optusnet.com.au>
NNTP-Posting-Host: 220.239.195.55
X-Trace: 1163765583 29167 220.239.195.55
Xref: g2news2.google.com rec.radio.amateur.homebrew:7888

Lemme tell you, the last (and first) time I got a burn from RF it certainly
did shock me. Would not have felt comfortable getting the burn on top of a

```
tower.
Joe vk3bki

"Bill Turner" <noway@nowhow.com> wrote in message
news:di5dl2tkmtnb8cmcaf5ir79nrmo9g87lqd@4ax.com...
> No one has ever gotten a shock from high power RF. Burns, yes.
>
> Bill, W6WRT
>
>
> ------------ ORIGINAL MESSAGE ------------
>
> On Sat, 11 Nov 2006 14:46:53 GMT, "Eamon Skelton"
> <Xnospam@oceanfree.net> wrote:
>
> >You don't want to do any high power tests while you
> >are up the tower or on the roof. High power = high
> >voltage = a long fall if you get a shock!




From 6682901891730798838
X-Google-Thread: fc2a5,121e6ecb9ad212ef
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!headwall.stanford.edu!
newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How connect two EPP ports to "talk" between them?
Date: 17 Nov 2006 13:17:31 -0600
Organization: Kansas State University
Lines: 17
Message-ID: <ejl1sb$3gp@unix1.cc.ksu.edu>
References: <eir7bq$7ja@unix1.cc.ksu.edu><12l2c1ipno3436d@corp.supernews.com>
<ej3mit$b83@unix1.cc.ksu.edu>    <_YK6h.15729$B31.4953@newssvr27.news.prodigy.net>
<MDQ6h.75$Vy4.699824@news.sisna.com>    <eji86c$4n0@unix1.cc.ksu.edu>
<1163740831.965507.86080@f16g2000cwb.googlegroups.com>
NNTP-Posting-Host: unix1.cc.ksu.edu
X-Trace: cnn.cns.ksu.edu 1163791055 14321 129.130.12.3 (17 Nov 2006 19:17:35 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Fri, 17 Nov 2006 19:17:35 +0000 (UTC)
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7889

>As the discussion showed, what you really want to do is transfer files.
>....[snip]....

That may be what the DISCUSSION showed, but that's NOT what my QUESTION
asked (which was how one might connect two EPP ports so they could "talk"
with each other bidirectionally).
```

```
Others "answered" the question by suggesting alternative solutions
    (And there is/was nothing wrong with that!),
but only a very few actually addressed the original question,

And I hereby thank them.
--
--Myron A. Calhoun.
Five boxes preserve our freedoms:  soap, ballot, witness, jury, and cartridge
NRA Life Member and Rifle, Pistol, & Home Firearm Safety Certified Instructor
Certified Instructor for the Kansas Concealed-Carry Handgun license



From -5415039623358312705
X-Google-Thread: fcc6e,6be39ccdbf35daa2
X-Google-Thread: 108122,47848ed5eb5707e5,start
X-Google-Thread: fc2a5,47848ed5eb5707e5,start
X-Google-Thread: 10bf43,47848ed5eb5707e5,start
X-Google-Thread: fa029,47848ed5eb5707e5,start
X-Google-Thread: 1109af,47848ed5eb5707e5,start
X-Google-Attributes:
gidfcc6e,gid108122,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy,rec.radio.scanner,rec.radio.swap
Subject: Re: Wouff Hong for antenna newsgroup (filters)
From: Lloyd Wiseman <davies@wiseman_hojnacki.org>
References: <Itq7h.3078$AO3.107@newsfe12.lga> <hxq7h.3079$AO3.1294@newsfe12.lga>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 21
Message-ID: <Zdt7h.165$sf5.54@newsread4.news.pas.earthlink.net>
Date: Sat, 18 Nov 2006 01:20:57 GMT
NNTP-Posting-Host: 4.227.154.43
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1163812857 4.227.154.43 (Fri, 17 Nov
2006 17:20:57 PST)
NNTP-Posting-Date: Fri, 17 Nov 2006 17:20:57 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:21665
rec.radio.amateur.equipment:7087 rec.radio.amateur.homebrew:7890
rec.radio.amateur.policy:54642 rec.radio.scanner:7886 rec.radio.swap:9931

"Rick" <ricknj10@hotmail.com> wrote in
news:hxq7h.3079$AO3.1294@newsfe12.lga:

>
>> Works as good as a Wouff Hong.
>
> I should have said "Works ALMOST as well as a Wouff Hong."
> Because a real Wouff Hong, properly administered, would eliminate not
```

> only the QRM but the QRM'er - a beautiful thing.
>
> Rick K2XT

Get used to the QRM, because after CW is eliminated you're going to wish
your rig did come with Rettysnitch and wouff hong filters...

But I forget, due to the lack of support for good tests a lot of you
people must like hearing Lids.

SC

From 1259006139842447716
X-Google-Thread: fc2a5,806fa2d9ac6b8cd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!news.glorb.com!
bigfeed2.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!
news.bellsouth.net!bignews2.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ferrrite in linear tank coil ?
References: <S_p6h.5885$IR4.4647@newssvr25.news.prodigy.net>
<ejdisq$d6f$1@skeeter.ucdavis.edu>
<1163594390.633812.100730@f16g2000cwb.googlegroups.com>
<5sbml29dsjt2njd33gm4l763b1nieabvs6@4ax.com>
In-Reply-To: <5sbml29dsjt2njd33gm4l763b1nieabvs6@4ax.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 28
Message-ID: <uTI7h.813$m9.548@bignews2.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcboebnhjcngapphpefmeiimehohbglpbnelkc
annmkjamhjpdejfnncpemepndciciolaapknkhfihhpcolaknmboikjepgeppdcnpdjnlfiihalnbd
NNTP-Posting-Date: Sat, 18 Nov 2006 14:09:14 EST
Organization: BellSouth Internet Group
Date: Sat, 18 Nov 2006 14:09:22 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:7891

Bill Turner wrote:
> ORIGINAL MESSAGE:
>
> On 15 Nov 2006 04:39:50 -0800, "Denny" <k8do@mailblocks.com> wrote:
>
>

>> Many amps produced today use ferrite in the tank (usually toroids) for
>> 160/80 meters... This is done to keep the physical size of the tank
>> compartment minimized... Skipp has pointed out the drawback... You
>> cannot saturate an air coil...
>
> ------------ REPLY FOLLOWS ------------
>
> I could be wrong, but I don't think you will find ferrite coils in the
> tank circuit of any commercially built amps. Powdered iron is
> preferred for resonant circuits because it will not saturate at any
> reasonable power level, unlike ferrites.
>
> You will find ferrites in non resonant circuits such as filament or
> heater chokes.
>
> 73, Bill W6WRT

Bill, there is a transmitter described in the 1967 ARRL handbook
that does indeed have a small piece of 1/2 dia ferrite rod (broken off a
BCB loop stick) inside the 80meter tank coil to decrease the number of
turns needed in the coil. This was a two tube transmitter using a 12by7
and a 1625. Plug in coils are used for the oscillator and final tank
circuits.

```
From -3332659537213019956
X-Google-Thread: fc2a5,806fa2d9ac6b8cd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller2.gnilink.net!gnilink.net!trndny02.POSTED!0da99462!not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <S_p6h.5885$IR4.4647@newssvr25.news.prodigy.net>
<ejdisq$d6f$1@skeeter.ucdavis.edu>
<1163594390.633812.100730@f16g2000cwb.googlegroups.com>
<1163615358.097947.19460@m73g2000cwd.googlegroups.com>
<Lc%6h.18$z01.14@newsfe04.lga>
Subject: Re: ferrrite in linear tank coil ?
Lines: 43
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <NJK7h.1745$_x3.1691@trndny02>
Date: Sat, 18 Nov 2006 21:15:25 GMT
NNTP-Posting-Host: 68.236.47.120
X-Complaints-To: abuse@verizon.net
X-Trace: trndny02 1163884525 68.236.47.120 (Sat, 18 Nov 2006 16:15:25 EST)
NNTP-Posting-Date: Sat, 18 Nov 2006 16:15:25 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:7892
```

Sounds like there's some confusion here between "loaded O" and "unloaded Q".

Ferrite in the tank coil reduces the number of turns needed for a given coil inductance but it also reduces the "unloaded Q" of the COIL, increasing tuned circuit losses. The "loaded Q" of the CIRCUIT is primarily what determines bandwidth, and it is determined by the inductive reactance and the load impedance the coil is imbedded in. The inclusion of ferrite has little to do with "loaded Q" and thus little to do with the bandwidth of the circuit (at least for practical first-order considerations; small tuned circuit losses do have a small second-order effect on bandwidth).

Joe
W3JDR

<xpyttl_NOSPAM@earthling.net> wrote in message
news:Lc%6h.18$z01.14@newsfe04.lga...
> If the preceding stage is clean, does it matter? The main point of the
> tank is impedance matching. If the stage before isn't too clean it can
> also double as a filter, but if the input to the tank is pretty clean,
> then the Q doesn't really matter all that much. Indeed, lower Q is an
> advantage in terms of being able to operate across the band without
> retuning.
>
> ..
>
> "Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
> news:1163615358.097947.19460@m73g2000cwd.googlegroups.com...
>>> Many amps produced today use ferrite in the tank (usually toroids) for
>>> 160/80 meters... This is done to keep the physical size of the tank
>>> compartment minimized... Skipp has pointed out the drawback... You
>>> cannot saturate an air coil...
>>
>> Wouldn't that also drastically reduce the Q of the tank?
>>
>> www.telstar-electronics.com
>>
>
>

From 4508844144039329928
X-Google-Thread: fc2a5,e76055f09ce50860,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wn14feed!worldnet.att.net!bgtnsc04-
news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail

From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA:MORE PARTS + AMPEREX TUBES
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <zzL7h.302850$QZ1.132824@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: 2e216aed32e4348537b193ea252d8ad7
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1163887967
2e216aed32e4348537b193ea252d8ad7 (Sat, 18 Nov 2006 22:12:47 GMT)
NNTP-Posting-Date: Sat, 18 Nov 2006 22:12:47 GMT
Organization: AT&T Worldnet
Date: Sat, 18 Nov 2006 22:12:47 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7893

Just listed a few more parts with more coming + a super buy on some
Amperex receiving type tubes at
1/2 the first listed price:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

Tnx for looking, heytubeguy

From 1015718575799325711
X-Google-Thread: fcc6e,28966154715bb8e0
X-Google-Thread: fc2a5,5ea17aeb391094e4,start
X-Google-Thread: 10bf43,28966154715bb8e0
X-Google-Thread: 1109af,28966154715bb8e0
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: Group poll.
From: Slow Code <my.mail@no.spam>
References: <ODu5h.5284$0r.5279@newsread1.news.pas.earthlink.net>
<ej6cua$2naq$1@news.ndhu.edu.tw> <ej8knc$kn5$1@news.hawaii.edu>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 32
Message-ID: <1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net>
Date: Sun, 19 Nov 2006 00:25:33 GMT

NNTP-Posting-Host: 4.254.231.5
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1163895933 4.254.231.5 (Sat, 18 Nov 2006 16:25:33 PST)
NNTP-Posting-Date: Sat, 18 Nov 2006 16:25:33 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:21695 rec.radio.amateur.homebrew:7894 rec.radio.amateur.policy:54733 rec.radio.swap:9956

jeffreyh@Hawaii.Edu (Jeffrey Herman) wrote in
news:ej8knc$kn5$1@news.hawaii.edu:

```
> John Smith  <assemblywizard@gmail.com> wrote:
>>Idiot, check your spelling, it's "group troll."
>
> Well, let's see if he ment "poll" or "troll":
>
>
>         0  2  4  6  8  10
>                        /
>                       /
>                      /
>                     /
>                    /
>                   /
>                  /
>                 /
>           POLL-O-METER
```

So what appliances does everyone hope Santa brings them for Xmas?

HF, VHF, UHF, KENWOOD, YAESU, ICOM, Cobra?

I couldn't think of anything for myself, so I hope I just get a some componants and a new soldering iron for projects so I can keep moving forward in ham radio.

SC

From 9168259001324953562
X-Google-Thread: fcc6e,28966154715bb8e0
X-Google-Thread: fc2a5,5ea17aeb391094e4
X-Google-Thread: 10bf43,28966154715bb8e0
X-Google-Thread: 1109af,28966154715bb8e0
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone.austin.rr.com!news.rr.com!tornado.texas.rr.com.POSTED!53ab2750!not-for-mail
From: "U-Know-Who" <no-one@nowhere.com>

```
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
References: <ODu5h.5284$0r.5279@newsread1.news.pas.earthlink.net>
<ej6cua$2naq$1@news.ndhu.edu.tw> <ej8knc$kn5$1@news.hawaii.edu>
<1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net>
Subject: Re: Group poll.
Lines: 39
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <5lO7h.283$_H5.256@tornado.texas.rr.com>
Date: Sun, 19 Nov 2006 01:22:09 GMT
NNTP-Posting-Host: 67.10.92.242
X-Complaints-To: abuse@rr.com
X-Trace: tornado.texas.rr.com 1163899329 67.10.92.242 (Sat, 18 Nov 2006 19:22:09
CST)
NNTP-Posting-Date: Sat, 18 Nov 2006 19:22:09 CST
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21701
rec.radio.amateur.homebrew:7895 rec.radio.amateur.policy:54743 rec.radio.swap:9958


"Slow Code" <my.mail@no.spam> wrote in message
news:1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net...
> jeffreyh@Hawaii.Edu (Jeffrey Herman) wrote in
> news:ej8knc$kn5$1@news.hawaii.edu:
>
>> John Smith  <assemblywizard@gmail.com> wrote:
>>>Idiot, check your spelling, it's "group troll."
>>
>> Well, let's see if he ment "poll" or "troll":
>>
>>
>>         0  2  4  6  8  10
>>                        /
>>                       /
>>                      /
>>                     /
>>                    /
>>                   /
>>                  /
>>                 /
>>           POLL-O-METER
>
>
>
> So what appliances does everyone hope Santa brings them for Xmas?
>
> HF, VHF, UHF, KENWOOD, YAESU, ICOM, Cobra?
>
```

>
> I couldn't think of anything for myself, so I hope I just get a some componants and a new soldering iron for projects so I can keep moving forward in ham radio.
>
> SC

And spell check for your PC. :-)

```
From 5996601355396502596
X-Google-Thread: fc2a5,806fa2d9ac6b8cd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!
feeder2.news.jippii.net!feeder1.news.jippii.net!reader1.news.jippii.net!53ab2750!
not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ferrrite in linear tank coil ?
Message-ID: <k9pvl2ho0bocntlf25u2hcrbisepomc2rb@4ax.com>
References: <S_p6h.5885$IR4.4647@newssvr25.news.prodigy.net>
<ejdisq$d6f$1@skeeter.ucdavis.edu>
<1163594390.633812.100730@f16g2000cwb.googlegroups.com>
<1163615358.097947.19460@m73g2000cwd.googlegroups.com>
<Lc%6h.18$z01.14@newsfe04.lga> <NJK7h.1745$_x3.1691@trndny02>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 13
Date: Sun, 19 Nov 2006 08:36:07 +0200
NNTP-Posting-Host: 195.197.6.85
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.jippii.net 1163918126 195.197.6.85 (Sun, 19 Nov 2006
08:35:26 EET)
NNTP-Posting-Date: Sun, 19 Nov 2006 08:35:26 EET
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:7896
```

On Sat, 18 Nov 2006 21:15:25 GMT, "W3JDR" <joe@roccis.com> wrote:

>Ferrite in the tank coil reduces the number of turns needed for a given coil inductance but it also reduces the "unloaded Q" of the COIL, increasing tuned circuit losses.

When reducing the number of turns, the resistive losses would go down, especially if a thicker wire can be used in the same space. Does the ferrite core losses _always_ increase faster than the coil resistive losses are reduced ?

Paul OH3LWR

```
From 4071174589213022724
X-Google-Thread: fcc6e,28966154715bb8e0
X-Google-Thread: fc2a5,5ea17aeb391094e4
X-Google-Thread: 10bf43,28966154715bb8e0
X-Google-Thread: 1109af,28966154715bb8e0
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: crapathon goes on
Date: Sun, 19 Nov 2006 02:24:03 -0500
Message-ID: <jj10m2d5sudbuosv580cam10kdrefkkm6p@4ax.com>
References: <ODu5h.5284$0r.5279@newsread1.news.pas.earthlink.net>
<ej6cua$2naq$1@news.ndhu.edu.tw> <ej8knc$kn5$1@news.hawaii.edu>
<1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 39
NNTP-Posting-Date: 19 Nov 2006 06:29:13 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21708
rec.radio.amateur.homebrew:7897 rec.radio.amateur.policy:54757 rec.radio.swap:9963

On Sun, 19 Nov 2006 00:25:33 GMT, Slow Code <my.mail@no.spam> wrote:

>jeffreyh@Hawaii.Edu (Jeffrey Herman) wrote in
>news:ej8knc$kn5$1@news.hawaii.edu:
>
>> John Smith  <assemblywizard@gmail.com> wrote:
>>>Idiot, check your spelling, it's "group troll."
>>
>> Well, let's see if he ment "poll" or "troll":
>>
>>
>>         0  2  4  6  8  10
>>                        /
>>                       /
>>                      /
>>                     /
>>                    /
>>                   /
>>                  /
>>                 /
>>          POLL-O-METER
>
>
>
>So what appliances does everyone hope Santa brings them for Xmas?
>
>HF, VHF, UHF, KENWOOD, YAESU, ICOM, Cobra?
>
>
>I couldn't think of anything for myself, so I hope I just get a some
>componants and a new soldering iron for projects so I can keep moving
>forward in ham radio.

funny you still have described a single home breww project

I have
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -2635929428530972887
X-Google-Thread: 10bf43,8f0a65310a772163
X-Google-Thread: fc2a5,8f0a65310a772163
X-Google-Thread: 114aac,283666946a01996c
X-Google-Thread: 1109af,8f0a65310a772163
X-Google-Attributes: gid10bf43,gidfc2a5,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!130.81.64.211.MISMATCH!cycny01.gnilink.net!
spamkiller2.gnilink.net!gnilink.net!trndny07.POSTED!da4e77e4!not-for-mail
Reply-To: "JOHN D" <jawnd393one@yahoo.com>
From: "JOHN D" <jawnd393one@yahoo.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave,rec.radio.
swap
References: <18671-4554BFEE-81@storefull-3253.bay.webtv.net>
<Y795h.5473$ig4.4880@newsread2.news.pas.earthlink.net>
<1163242919.789203.58630@b28g2000cwb.googlegroups.com>
Subject: Re: Radio Shack store robbed
Lines: 4
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1437
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1441
Message-ID: <txW7h.4875$d42.4102@trndny07>
Date: Sun, 19 Nov 2006 10:41:29 GMT
NNTP-Posting-Host: 71.120.55.159
```

X-Complaints-To: abuse@verizon.net
X-Trace: trndny07 1163932889 71.120.55.159 (Sun, 19 Nov 2006 05:41:29 EST)
NNTP-Posting-Date: Sun, 19 Nov 2006 05:41:29 EST
Xref: g2news2.google.com rec.radio.amateur.policy:54783
rec.radio.amateur.homebrew:7898 rec.radio.shortwave:59224 rec.radio.swap:9969

I wonder if the robbers were able to make it out of the store without
signing up for a new cell phone contract.

From -2616465783167431699
X-Google-Thread: fc2a5,806fa2d9ac6b8cd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-mail
From: "Telstar Electronics" <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ferrrite in linear tank coil ?
Date: 19 Nov 2006 06:42:00 -0800
Organization: http://groups.google.com
Lines: 11
Message-ID: <1163947320.301105.300080@m73g2000cwd.googlegroups.com>
References: <S_p6h.5885$IR4.4647@newssvr25.news.prodigy.net>
   <ejdisq$d6f$1@skeeter.ucdavis.edu>
   <1163594390.633812.100730@f16g2000cwb.googlegroups.com>
   <1163615358.097947.19460@m73g2000cwd.googlegroups.com>
   <Lc%6h.18$z01.14@newsfe04.lga>
NNTP-Posting-Host: 75.3.141.166
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1163947326 15535 127.0.0.1 (19 Nov 2006 14:42:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 19 Nov 2006 14:42:06 +0000 (UTC)
In-Reply-To: <Lc%6h.18$z01.14@newsfe04.lga>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=75.3.141.166;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news2.google.com rec.radio.amateur.homebrew:7899

> If the preceding stage is clean, does it matter? The main point of the tank
> is impedance matching. If the stage before isn't too clean it can also
> double as a filter, but if the input to the tank is pretty clean, then the Q
> doesn't really matter all that much. Indeed, lower Q is an advantage in
> terms of being able to operate across the band without retuning.
>

Not sure I agree with that. What about losses? Lower Q means higher
losses...

www.telstar-electronics.com

```
From -5640081002869846500
X-Google-Thread: 108122,9cbd85c35c4ec5aa,start
X-Google-Thread: fc2a5,9cbd85c35c4ec5aa,start
X-Google-Thread: 1109af,9cbd85c35c4ec5aa,start
X-Google-Attributes: gid108122,gidfc2a5,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!feed.cgocable.net!
read1.cgocable.net.POSTED!53ab2750!not-for-mail
From: "Norm VE3CZI" <ve3czi@arrl.net>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.swap
Subject: FS:  Service Manuals and some Surplus Items
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <Wq28h.2757$J32.1508@read1.cgocable.net>
Date: Sun, 19 Nov 2006 14:40:35 -0500
NNTP-Posting-Host: 24.141.95.162
X-Complaints-To: news@cogeco.net
X-Trace: read1.cgocable.net 1163965238 24.141.95.162 (Sun, 19 Nov 2006 14:40:38
EST)
NNTP-Posting-Date: Sun, 19 Nov 2006 14:40:38 EST
Organization: Cogeco Cable
Xref: g2news2.google.com rec.radio.amateur.equipment:7109
rec.radio.amateur.homebrew:7900 rec.radio.swap:9978
```

Have a quantity of Radio Communications Service Manuals, both Commercial & Amateur that I have rescued from the Dumpster. Most ot them are in Like New Condition.

Please check my site: www.rodemi.com   for what is available. I am updating the site as time allows.
I recently retired from the Commercial 2-way radio business

Thanks for looking....Norm VE3CZI
Email me Directly: <insert Call Sign> at arrl.net ....<call sign> is ve3czi

---

```
From -4215997739376536823
X-Google-Thread: fc2a5,806fa2d9ac6b8cd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!sn-xt-sjc-02!sn-
```

xt-sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ferrrite in linear tank coil ?
Date: Sun, 19 Nov 2006 15:22:24 -0800
Organization: EZNEC Antenna Software
Message-ID: <12m1ppk29p54u82@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
MIME-Version: 1.0
References: <S_p6h.5885$IR4.4647@newssvr25.news.prodigy.net>
<ejdisq$d6f$1@skeeter.ucdavis.edu>
<1163594390.633812.100730@f16g2000cwb.googlegroups.com>
<1163615358.097947.19460@m73g2000cwd.googlegroups.com>
<Lc%6h.18$z01.14@newsfe04.lga>
<1163947320.301105.300080@m73g2000cwd.googlegroups.com>
In-Reply-To: <1163947320.301105.300080@m73g2000cwd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 15
Xref: g2news2.google.com rec.radio.amateur.homebrew:7901

Telstar Electronics wrote:

> . . .
> Not sure I agree with that. What about losses? Lower Q means higher
> losses...

Loss is related to the ratio of unloaded Q to loaded Q. All else being equal, lowering the unloaded Q will increase loss, but lowering the loaded Q will decrease loss. As others have posted, the unloaded Q is a characteristic of the tank circuit itself, usually primarily the inductor; loaded Q is largely dictated by the external load and how it's coupled to the tank. Hence the tendency to keep the inductor Q high but not make the loaded Q any higher than necessary for harmonic and spur reduction.

Roy Lewallen, W7EL

From 8235383910220178991
X-Google-Thread: fc2a5,3ad0e5268057ef39,start
X-Google-Thread: 10cf58,3ad0e5268057ef39,start
X-Google-Thread: 10d85e,3ad0e5268057ef39,start
X-Google-Thread: fb1f8,3ad0e5268057ef39,start
X-Google-Thread: 108122,3ad0e5268057ef39,start
X-Google-Thread: 10c2ee,3ad0e5268057ef39,start
X-Google-Attributes:
gidfc2a5,gid10cf58,gid10d85e,gidfb1f8,gid108122,gid10c2ee,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon06.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr13.news.prodigy.com.POSTED!c4667c2f!not-for-mail

From: "Henry Kolesnik" <kolesnik@sbcglobal.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.audio.pro,rec.audio.opinion,rec.audio.tech,rec.radio.amateur.equipment,rec.antiques.radio+phono
Subject: HP 3582A ?
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <k968h.8441$Sw1.7887@newssvr13.news.prodigy.com>
NNTP-Posting-Host: 70.142.54.81
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr13.news.prodigy.com 1163980496 ST000 70.142.54.81 (Sun, 19 Nov 2006 18:54:56 EST)
NNTP-Posting-Date: Sun, 19 Nov 2006 18:54:56 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
OP[MBXSEFRUARSH]]RKB_UDAZZ\DPCPDLXUNNHPHBATBTSUBYFWEAE[YJLYPIWKHTFCMZKVMB^[Z^DOBRV
VMOSPFHNSYXVDIE@X\BUC@GTSX@DL^GKFFHQCCE\G[JJBMYDYIJCZM@AY]GNGPJD]YNNW\GSX^GSCKHA[]
@CCB\[@LATPD\L@J\\PF]VR[QPJN
Date: Sun, 19 Nov 2006 23:54:56 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7902 rec.audio.pro:79093 rec.audio.opinion:55172 rec.audio.tech:14914 rec.radio.amateur.equipment:7114 rec.antiques.radio+phono:38649

I'm not certain to which group I should post this question, so I'm shot gunning hoping to find it. If anyone can point me, please do. However....
Has anyone used the HP 3582A audio spectrum analyzer to plot the freq response of audio devices like mikes, speakers, etc. Knowing the mike response I'd like to see the spectrum of plucked guitar strings and their harmonics and see how different manufacturers sound varies in a plot. I got a 3582A at a swap meet, its complex and probably overkill but that's what I have and I am anxious to try it out and would appreciate any tips.
Thanks

--

73
Hank WD5JFR

From -6855858108318382369
X-Google-Thread: fc2a5,3ad0e5268057ef39
X-Google-Thread: 10cf58,3ad0e5268057ef39
X-Google-Thread: 10d85e,3ad0e5268057ef39
X-Google-Thread: fb1f8,3ad0e5268057ef39
X-Google-Thread: 108122,3ad0e5268057ef39
X-Google-Thread: 10c2ee,3ad0e5268057ef39
X-Google-Attributes:

```
gidfc2a5,gid10cf58,gid10d85e,gidfb1f8,gid108122,gid10c2ee,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-
mail
NNTP-Posting-Date: Sun, 19 Nov 2006 18:58:38 -0600
Newsgroups:
rec.radio.amateur.homebrew,rec.audio.pro,rec.audio.opinion,rec.audio.tech,rec.radi
o.amateur.equipment,rec.antiques.radio+phono
Subject: Re: HP 3582A ?
From: someone <someone@arcanemethod.com>
References: <k968h.8441$Sw1.7887@newssvr13.news.prodigy.com>
Organization: fair
Followup-To: rec.radio.amateur.homebrew,rec.audio.pro
User-Agent: Xnews/5.04.25
Message-ID: <aOadnahee6cjYP3YnZ2dnUVZ_qCdnZ2d@giganews.com>
Date: Sun, 19 Nov 2006 18:58:38 -0600
Lines: 19
X-Trace: sv3-LLsVD4rH2uoerDt/
iQaLkLIMMmVgEzczKbMqtBTVJiwuXy7kcla83ut+T1wG0VuXg5G+PbZuBOna09i!
ehpbXPFM72HqjUP6ZSXfSt7FeA2KvhkpPXYCgrDbUEhB3E5G8d+P4xU84tPg3Kz8BpJrdU5lw5UO
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7903 rec.audio.pro:79100
rec.audio.opinion:55186 rec.audio.tech:14920 rec.radio.amateur.equipment:7118
rec.antiques.radio+phono:38656
```

"Henry Kolesnik" <kolesnik@sbcglobal.net> wrote in
news:k968h.8441$Sw1.7887@newssvr13.news.prodigy.com:

> I'm not certain to which group I should post this question, so I'm
> shot gunning hoping to find it. If anyone can point me, please do.
> However.... Has anyone used the HP 3582A audio spectrum analyzer to
> plot the freq response of audio devices like mikes, speakers, etc.
> Knowing the mike response I'd like to see the spectrum of plucked
> guitar strings and their harmonics and see how different manufacturers
> sound varies in a plot. I got a 3582A at a swap meet, its complex and
> probably overkill but that's what I have and I am anxious to try it
> out and would appreciate any tips. Thanks
>

The 3582A is just one of many two-channel FFT analyzers which can be used to measure the frequency response of a system (output re input). What specifically is your question? Perhaps all you need is to get an operating manual and learn how to use it?

From 7325622467267509554

X-Google-Thread: fc2a5,3ad0e5268057ef39
X-Google-Thread: 10cf58,3ad0e5268057ef39
X-Google-Attributes: gidfc2a5,gid10cf58,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr12.news.prodigy.com.POSTED!68b4c531!not-for-mail
From: Bill <bbaka@comcast.net>
Reply-To: bbaka@c-o-m-c-a-s-t-dot-n-e-t
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,rec.audio.pro
Subject: Re: HP 3582A ?
References: <k968h.8441$Sw1.7887@newssvr13.news.prodigy.com>
<aOadnahee6cjYP3YnZ2dnUVZ_qCdnZ2d@giganews.com>
In-Reply-To: <aOadnahee6cjYP3YnZ2dnUVZ_qCdnZ2d@giganews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 31
Message-ID: <V698h.14660$yl4.12189@newssvr12.news.prodigy.com>
NNTP-Posting-Host: 67.172.166.91
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr12.news.prodigy.com 1163992629 ST000 67.172.166.91 (Sun, 19 Nov
2006 22:17:09 EST)
NNTP-Posting-Date: Sun, 19 Nov 2006 22:17:09 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
SCSGGXCEGRRAS_TS^X^D]_\@VR]^@B@MCPWZKB]MPXHNDQUBLNTC@AWZWDXZXQ[K\FFSKCVM@F_N_DOBWV
WG__LG@VVOIPLIGX\
\BU_B@\P\PFX\B[APHTWAHDCKJF^NHD[YJAZMCY_CWG[SX\Y]^KC\HSZRWSWKGAY_PC[BQ[BXAS\F\
\@DMTLFZFUE@\VL
Date: Mon, 20 Nov 2006 03:17:09 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7904 rec.audio.pro:79114

someone wrote:
> "Henry Kolesnik" <kolesnik@sbcglobal.net> wrote in
> news:k968h.8441$Sw1.7887@newssvr13.news.prodigy.com:
>
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>>
>
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> to measure the frequency response of a system (output re input). What
> specifically is your question? Perhaps all you need is to get an operating

> manual and learn how to use it?
>

Spectrum analyzers do a whole lot better with continuous signals than
they do with a plucked guitar string, unless you can capture the audio
and analyze it digitally. If it is an actual FFT that you can use and
you got it cheap enough you may have made a killing in the instrument
department. Why I go to flea markets and especially estate sales where
the widow is running it. About 3 months ago I bought some 30 year old
equipment, brand new in the box from a widow who just wanted to find a
good home for her departed husband's "junk". Tektronix used to have plug
ins for their line of scopes to do just about anything so if you can't
master what you have, check E-bay.
Bill Baka

From 1330735102025961870
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From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP 3582A ?
Date: Mon, 20 Nov 2006 08:33:24 +0000 (UTC)
Organization: Me?
Lines: 67
Sender: mikea@mikea.ath.cx
Message-ID: <ejrp8k$qpf$1@puck.litech.org>
References: <k968h.8441$Sw1.7887@newssvr13.news.prodigy.com>
NNTP-Posting-Host: mikea.ath.cx
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Xref: g2news2.google.com rec.radio.amateur.homebrew:7905

In rec.radio.amateur.homebrew Henry Kolesnik <kolesnik@sbcglobal.net> wrote:
> I'm not certain to which group I should post this question, so I'm shot
> gunning hoping to find it. If anyone can point me, please do. However....
> Has anyone used the HP 3582A audio spectrum analyzer to plot the freq
> response of audio devices like mikes, speakers, etc. Knowing the mike
> response I'd like to see the spectrum of plucked guitar strings and their
> harmonics and see how different manufacturers sound varies in a plot. I got
> a 3582A at a swap meet, its complex and probably overkill but that's what I
> have and I am anxious to try it out and would appreciate any tips.
> Thanks

I've done this, some years back, with much more primitive gear. and
found that the spectrum of a plucked guitar string varies with time;

ditto for the natural and left-hand-stopped harmonics. If you listen closely, you can _hear_ the variation: the higher frequencies die much more quickly.

I'm not sure of the physical mechanisms that are involved, but suspect that they include the nonlinearities in the strings, the woods. The shape of the soundbox probably has a strong influence as well, or so I think. I would not be at all amazed to find that this holds true for plucked chordophones in general.

I would expect the spectrum of a continuously-driven string -- a bowed string, such as a violin, viola, violoncello, viol, or vielle string, OTOH -- to have a spectrum that was closer to time-invariant, once the string got up to constant amplitude and as long as the bowing continued. A hurdy-gurdy wheel is the ideal here, since it acts as a bow as long as it is being turned.

But you're wanting the response of a plucked string, not that of a bowed string. I suppose you could try two different approaches. One of them would be to build a rotating-wheel bowing machine to look at the spectra of strings continuously-bowed with different speeds, at various distances from the bridge, and at different pressures. Another would be to build a mechanical string-plucker, so that you could get consistent values of plucking force, while (again) varying force, distance from the bridge, and so on.

An advantage of the mechanical plucking machine would be that you would (should, in a perfect world) be able to use the output of multiple runs where all the variables were the same, and that you could build some very nice "3-d" plots to show the variation in spectra as the distance from the bridge (or the force, or some other variable) changed.

Still, it is an interesting project -- the more so to me since I've been a classical guitarist for 49 years, and learned that strings from different manufacturers, and even different styles of string from the same manufacturer, can sound *very* different on the same instrument. That was why Segovia standardized on Augustine strings -- or so he told us one night, at a meeting of the Houston Classical Guitar Society, back around 1965.

Unfortunately, the same strings can sound very different on two or three different instruments, too. None of this is in any way easy.

This probably would get a fair amount of interest in, say, rec.music.makers.

Posted to, and followups set to, rec.radio.amateur.homebrew, where I read it.

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx

Tired old sysadmin

From -4060282330617028925
X-Google-Thread: fc2a5,3ad0e5268057ef39
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skynet.be!newspost001!tjb!not-for-mail
Date: Mon, 20 Nov 2006 09:49:30 +0100
From: Zilog <VMI@Advalvas.be>
User-Agent: Thunderbird 1.5.0.4 (Windows/20060516)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.audio.pro,rec.audio.opinion,rec.audio.tech,rec.radio.amateur.equipment,rec.antiques.radio+phono
Subject: Re: HP 3582A ?
References: <k968h.8441$Sw1.7887@newssvr13.news.prodigy.com>
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X-Complaints-To: usenet-abuse@skynet.be
Xref: g2news2.google.com rec.radio.amateur.homebrew:7906 rec.audio.pro:79157
rec.audio.opinion:55212 rec.audio.tech:14933 rec.radio.amateur.equipment:7124
rec.antiques.radio+phono:38688

Henry Kolesnik wrote:
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> harmonics and see how different manufacturers sound varies in a plot. I got
> a 3582A at a swap meet, its complex and probably overkill but that's what I
> have and I am anxious to try it out and would appreciate any tips.
> Thanks
>

Hi,
Have a check here:
http://www.buildyourguitar.com/resources/lemme/index.htm
It can help you I think,

Zilog

```
From 979598212263126716
X-Google-Thread: fc2a5,3ad0e5268057ef39
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newssvr11.news.prodigy.com.POSTED!7b20fae2!not-for-mail
From: "Mike Young" <boat042-spam@yahoo.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.audio.pro,rec.audio.opinion,rec.audio.tech,rec.radi
o.amateur.equipment,rec.antiques.radio+phono
References: <k968h.8441$Sw1.7887@newssvr13.news.prodigy.com>
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rec.audio.opinion:55215 rec.audio.tech:14935 rec.radio.amateur.equipment:7125
rec.antiques.radio+phono:38691
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"Henry Kolesnik" <kolesnik@sbcglobal.net> wrote in message
news:k968h.8441$Sw1.7887@newssvr13.news.prodigy.com...

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> harmonics and see how different manufacturers sound varies in a plot. I
> got a 3582A at a swap meet, its complex and probably overkill but that's
> what I have and I am anxious to try it out and would appreciate any tips.
> Thanks

Another option, FWIW, is to use the PC to capture and analyze. The audible spectrum would seem to be quite unchallenging for common desktops. Compression schemes such as MP3 and WMA, after all, operate on the frequency domain. In fact, Windows Media Player delivers the FFT stream to visualization modules. There's likely free software somewhere that can do what you're looking to do. OTOH, you then have the soundcard's non-linearities to deal with, which is likely not on par with lab or even studio grade equipment.

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NNTP-Posting-Date: Mon, 20 Nov 2006 05:18:38 -0600
From: "Arny Krueger" <arnyk@hotpop.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.audio.pro,rec.audio.opinion,rec.audio.tech,rec.radi
o.amateur.equipment,rec.antiques.radio+phono
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<qBf8h.8520$6t.4406@newssvr11.news.prodigy.com>
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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
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properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7908 rec.audio.pro:79167
rec.audio.opinion:55216 rec.audio.tech:14936 rec.radio.amateur.equipment:7126
rec.antiques.radio+phono:38692
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"Mike Young" <boat042-spam@yahoo.com> wrote in message
news:qBf8h.8520$6t.4406@newssvr11.news.prodigy.com
> "Henry Kolesnik" <kolesnik@sbcglobal.net> wrote in message
> news:k968h.8441$Sw1.7887@newssvr13.news.prodigy.com...

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> such as MP3 and WMA, after all, operate on the frequency
> domain. In fact, Windows Media Player delivers the FFT
> stream to visualization modules. There's likely free
> software somewhere that can do what you're looking to do.
> OTOH, you then have the soundcard's non-linearities to
> deal with, which is likely not on par with lab or even
> studio grade equipment.

There are studio grade PC audio interfaces, and some are among the
highest-performing audio components around. Some are on a par with the very
best lab equipment.

There is free PC software called RMAA that will automatically conduct a
representative suite of audio tests, and produce reports in a few minutes:

http://audio.rightmark.org/products/rmaa.shtml

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53ab2750!not-for-mail
From: "Jeff James, W2NBC" <w2nbc@optonline.net>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: The Boatanchor Classifieds
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Content-Transfer-Encoding: 7bit
Lines: 3
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Xref: g2news2.google.com rec.radio.amateur.homebrew:7909
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The Boatanchor Classifieds
http://www.dealamerica.com/deal/cgi-bin/ads/bcads.cgi
Dedicated to Vintage Amateur Radio..

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From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.radio.amateur.homebrew,rec.audio.pro,rec.audio.opinion,rec.audio.tech,rec.radi
o.amateur.equipment,rec.antiques.radio+phono
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Lines: 15
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References: <k968h.8441$Sw1.7887@newssvr13.news.prodigy.com>
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rec.audio.opinion:55223 rec.audio.tech:14944 rec.radio.amateur.equipment:7128
rec.antiques.radio+phono:38695

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>response I'd like to see the spectrum of plucked guitar strings and their
>harmonics and see how different manufacturers sound varies in a plot.  I got
>a 3582A at a swap meet, its complex and probably overkill but that's what I
>have  and I am anxious to try it out and would appreciate any tips.

Yes, lots of people have used HP FFT analyzers for all kinds of things.
There isn't a lot of trickery... they pretty much work.
--scott
--
"C'est un Nagra.  C'est suisse, et tres, tres precis."


From 2951109990484976764
X-Google-Thread: fc2a5,3ad0e5268057ef39
X-Google-Thread: 10cf58,3ad0e5268057ef39
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NNTP-Posting-Date: Mon, 20 Nov 2006 08:36:25 -0600
From: "jack" <jdwalton@comcast.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.audio.pro,rec.audio.opinion,rec.audio.tech,rec.radi
o.amateur.equipment,rec.antiques.radio+phono
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rec.audio.opinion:55224 rec.audio.tech:14945 rec.radio.amateur.equipment:7129
rec.antiques.radio+phono:38698
```

One thing which you can do with these older analyzers is measure much higher voltages than possible on a sound card FFT, much lower frequencies -- they were used for vibration analysis as well as audio -- they are also very well isolated -- you can find a repro of the manual on EBay for ten bucks.

```
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o.amateur.equipment,rec.antiques.radio+phono
References: <k968h.8441$Sw1.7887@newssvr13.news.prodigy.com>
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X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <osadnViG4rXoIvzYnZ2dnUVZ_oednZ2d@comcast.com>
Lines: 29
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NNTP-Posting-Host: 71.227.115.95
X-Trace: sv3-
lVg8ydCi8b2DEiJOjDscAmo76ix3Shf4wfQC7vbYgkjAlCvQ7k5iNFgGF8XTEQA6q9vOoCPw5erm9M9!
H3fk0ECWBfda4VQ8Y3BYWi+HvpGDURwkluGK6rhCgA4oitUYJSkSGRdPKlaS3a8gurvLIsurZXan!
lYrByA1QPg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7912 rec.audio.pro:79189 rec.audio.opinion:55226 rec.audio.tech:14946 rec.radio.amateur.equipment:7132 rec.antiques.radio+phono:38699

"jack" <jdwalton@comcast.net> wrote in message
news:TqudnRNSmd_0IPzYnZ2dnUVZ_rSdnZ2d@comcast.com

> One thing which you can do with these older analyzers is
> measure much higher voltages than possible on a sound
> card FFT,

Easy enough to address. I use a 5K RN50 potentiomenter for the purpose. If I want an accurate voltage measurement of audio, I use a voltmeter.

> much lower frequencies -- they were used for
> vibration analysis as well as audio

Not much difference between most vibrations and what a subwoofer does. If an audio interface is flat within 0.1 dB at 20 Hz, then it is pretty good an octave or two below that!

> -- they are also very well isolated

There is this amazingly good audio isolation transformer at Radio Shack. Sells for under $20 a pair...

> -- you can find a repro of the manual on EBay for ten bucks.

You can find an audio interface that will outperform say a HP 334 for $30. For $200 you're in the same league as some of the older, but not all that old AP stuff.

From 2382055353211823488
X-Google-Thread: fc2a5,3ad0e5268057ef39
X-Google-Thread: 10cf58,3ad0e5268057ef39
X-Google-Thread: 10d85e,3ad0e5268057ef39
X-Google-Thread: fb1f8,3ad0e5268057ef39
X-Google-Thread: 108122,3ad0e5268057ef39
X-Google-Thread: 10c2ee,3ad0e5268057ef39

```
X-Google-Attributes:
gidfc2a5,gid10cf58,gid10d85e,gidfb1f8,gid108122,gid10c2ee,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 20 Nov 2006 08:47:58 -0600
From: "Arny Krueger" <arnyk@hotpop.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.audio.pro,rec.audio.opinion,rec.audio.tech,rec.radi
o.amateur.equipment,rec.antiques.radio+phono
References: <k968h.8441$Sw1.7887@newssvr13.news.prodigy.com>
<TqudnRNSmd_0IPzYnZ2dnUVZ_rSdnZ2d@comcast.com>
<osadnViG4rXoIvzYnZ2dnUVZ_oednZ2d@comcast.com>
Subject: Re: HP 3582A ?
Date: Mon, 20 Nov 2006 09:47:59 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <xdWdnQL7lfeDXfzYnZ2dnUVZ_r2dnZ2d@comcast.com>
Lines: 18
NNTP-Posting-Host: 71.227.115.95
X-Trace: sv3-
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rCDjjS75bkBfcvaLB6e49WWXAms9uqkcPh+cw4gQKLg5pTjyO1XMVqQWBa/KO9iWyIYxDTMWHDVf!Ukk/
Oqv8RA==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7913 rec.audio.pro:79191
rec.audio.opinion:55227 rec.audio.tech:14947 rec.radio.amateur.equipment:7133
rec.antiques.radio+phono:38700
```

"Arny Krueger" <arnyk@hotpop.com> wrote in message
news:osadnViG4rXoIvzYnZ2dnUVZ_oednZ2d@comcast.com

> "jack" <jdwalton@comcast.net> wrote in message
> news:TqudnRNSmd_0IPzYnZ2dnUVZ_rSdnZ2d@comcast.com
>
>> One thing which you can do with these older analyzers is
>> measure much higher voltages than possible on a sound
>> card FFT,
>
> Easy enough to address. I use a 5K RN50 potentiomenter
> for the purpose. If I want an accurate voltage
> measurement of audio, I use a voltmeter.

Correction - make that RV4N - example:

http://www.alliedelec.com/Search/ProductDetail.asp?SKU=753-1445

```
From -1967235759710342345
X-Google-Thread: fc2a5,3ad0e5268057ef39
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-
mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HP 3582A ?
Date: 20 Nov 2006 09:39:01 -0800
Organization: http://groups.google.com
Lines: 58
Message-ID: <1164044341.585568.85120@m73g2000cwd.googlegroups.com>
References: <k968h.8441$Sw1.7887@newssvr13.news.prodigy.com>
   <qBf8h.8520$6t.4406@newssvr11.news.prodigy.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164044347 17362 127.0.0.1 (20 Nov 2006 17:39:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 20 Nov 2006 17:39:07 +0000 (UTC)
In-Reply-To: <qBf8h.8520$6t.4406@newssvr11.news.prodigy.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.8)
Gecko/20061025 Firefox/1.5.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7914
```

Mike Young wrote:

> "Henry Kolesnik" <kolesnik@sbcglobal.net> wrote in message
> news:k968h.8441$Sw1.7887@newssvr13.news.prodigy.com...
> > I'm not certain to which group I should post this question, so I'm shot
> > gunning hoping to find it. If anyone can point me, please do.
> > However....
> > Has anyone used the HP 3582A audio spectrum analyzer to plot the freq
> > response of audio devices like mikes, speakers, etc. Knowing the mike
> > response I'd like to see the spectrum of plucked guitar strings and their
> > harmonics and see how different manufacturers sound varies in a plot. I
> > got a 3582A at a swap meet, its complex and probably overkill but that's
> > what I have and I am anxious to try it out and would appreciate any tips.
> > Thanks
>
> Another option, FWIW, is to use the PC to capture and analyze. The audible
> spectrum would seem to be quite unchallenging for common desktops.
> Compression schemes such as MP3 and WMA, after all, operate on the frequency
> domain. In fact, Windows Media Player delivers the FFT stream to

> visualization modules. There's likely free software somewhere that can do what you're looking to do. OTOH, you then have the soundcard's non-linearities to deal with, which is likely not on par with lab or even studio grade equipment.

Actually, pretty much any modern PC audio card will have plenty low enough distortion for the application, and quite likely better than the HP3582. The 3582, is, after all, quite an old instrument. The advent of digital audio changed the whole playing field for audio range ADCs and DACs, as well as support parts like op amps (though codecs as used in most inexpensive PC audio systems don't need additional preams on their inputs anyway). Frequency response at the low end can be an issue; there are many vibrations that are too low in frequency for a sound card to deal with. Think "seismic" and you'll understand. The AC coupling in the HP E1433 is programmable to very low frequencies, as it's actually a feedback control system run through the DSP following the ADC, but most AC coupling will have a 3dB corner frequency around 1Hz, or higher if it's really just for audio. Sound cards may well use codecs whose ADCs have digital AC coupling, as well, and the card may not provide a way to turn that off.

Another package that can be used to do FFTs on captured audio, and to otherwise manipulate the audio file, is the free Scilab package. You can play to your heart's content with math functions on the audio (or on pretty much anything else you can represent numerically), but of course you can get yourself into trouble if you don't understand what you're doing. And along those lines, I'd strongly caution you to not read too much into what Scott wrote, "Yes, lots of people have used HP FFT analyzers for all kinds of things.
There isn't a lot of trickery... they pretty much work." The _analyzers_ may work, but if you don't understand what they do, you may make very bad measurements with them, and you may badly misinterpret the results you see. There are, I believe, HP/Agilent ap notes on making _good_ measurements and properly interpreting the results.
Well, I KNOW there are, though finding them on the web may be a bit of a challenge.

Cheers,
Tom

From -4545848406705367348
X-Google-Thread: fc2a5,3ad0e5268057ef39
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!out01b.usenetserver.com!news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-out.readnews.com!postnews3.readnews.com!posts.news.usenetmonster.com!nnrp0.asbnva.usenetmonster.com!not-for-mail
From: "JimL" <jimbethladd@aol.com>
Newsgroups: rec.radio.amateur.homebrew

References: <k968h.8441$Sw1.7887@newssvr13.news.prodigy.com>
<qBf8h.8520$6t.4406@newssvr11.news.prodigy.com>
<1164044341.585568.85120@m73g2000cwd.googlegroups.com>
Subject: Re: HP 3582A ?
Date: Mon, 20 Nov 2006 15:17:49 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Lines: 70
Message-ID: <456212cb$0$10746$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
NNTP-Posting-Host: 48b07be4.news.usenetmonster.com
X-Trace:
DXC=G:o\n=XCa@3L7K=<nLH3:1fmBVYh0PF`67:fG3B6S`d32TX;9JmgLY5MmS4]WCB968aONNdPIjL<<A
^YUOj0WC>7]daMo@Ha[j4DfU4HJ@9Vk0R:f4@2DYBI5
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7915

"K7ITM" <k7itm@msn.com> wrote in message
news:1164044341.585568.85120@m73g2000cwd.googlegroups.com...
> Mike Young wrote:
>> "Henry Kolesnik" <kolesnik@sbcglobal.net> wrote in message
>> news:k968h.8441$Sw1.7887@newssvr13.news.prodigy.com...
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> There isn't a lot of trickery... they pretty much work." The
> _analyzers_ may work, but if you don't understand what they do, you may
> make very bad measurements with them, and you may badly misinterpret
> the results you see. There are, I believe, HP/Agilent ap notes on
> making _good_ measurements and properly interpreting the results.
> Well, I KNOW there are, though finding them on the web may be a bit of
> a challenge.
>
> Cheers,
> Tom
>

Hi- there is a HP newsgroup on Yahoo, try that. Jim.

```
From -4933165387756639961
X-Google-Thread: fc2a5,bac179cb27ff0a46,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!sn-xt-sjc-04!sn-xt-
sjc-08!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Tapped capacitor tanks
Date: Mon, 20 Nov 2006 13:54:09 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12m4902i6dq8t15@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
```

X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 27
Xref: g2news2.google.com rec.radio.amateur.homebrew:7916

I've been playing with oscillators a bit here, and I wanted to ask if the way I'm intuitively thinking about the operation of a tapped capacitor tank is the way other people do:

Say we have an inductor L in parallel with tapped capacitors, C1 and C2. If the loaded Q of the tank is reasonably high (say, >10 -- which you'd want for any decent oscillator anyway), we can pretty much ignore the "input" and "output" of the tank, as their effect on what happens within the tank isn't significant. As such, we can just look at the current circulating around the tank, and from the "top" of the tank to the "bottom" you get 90 degrees phase shift going from C1 to ground and then another 90 degrees from ground through C2. Hence, from the top to the bottom you have 180 degrees of phase shift, with the values (ratios) of C1/C2 just setting the magnitude of the output voltage vs. the input. Sound good?

I started going through the math involved and determined that you can readily confuse yourself if you don't make the "high Q" assumption. For instance, something like a 1 ohm source and 1 ohm load feeding a tank of 159.2mH (j1 ohms) and 2 318.3mF caps (-j/2 ohms) has such a horribly low Q that there isn't a 180 degree phase shift top to bottom, nor is the resonant frequency 1Hz.

Thanks,
---Joel Kolstad

From 4234765997886481019
X-Google-Thread: fc2a5,bac179cb27ff0a46
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tapped capacitor tanks
Date: Mon, 20 Nov 2006 15:29:12 -0800
Organization: EZNEC Antenna Software
Message-ID: <12m4eicmqlfjjdc@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
MIME-Version: 1.0
References: <12m4902i6dq8t15@corp.supernews.com>
In-Reply-To: <12m4902i6dq8t15@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed

Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 22
Xref: g2news2.google.com rec.radio.amateur.homebrew:7917

Joel Kolstad wrote:
> I've been playing with oscillators a bit here, and I wanted to ask if the way
> I'm intuitively thinking about the operation of a tapped capacitor tank is the
> way other people do:
>
> Say we have an inductor L in parallel with tapped capacitors, C1 and C2. If
> the loaded Q of the tank is reasonably high (say, >10 -- which you'd want for
> any decent oscillator anyway), we can pretty much ignore the "input" and
> "output" of the tank, as their effect on what happens within the tank isn't
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> C2. Hence, from the top to the bottom you have 180 degrees of phase shift,
> with the values (ratios) of C1/C2 just setting the magnitude of the output
> voltage vs. the input. Sound good?

Sorry, no. EH antenna inventors and apologists notwithstanding, the
phase of current doesn't change as it goes through a capacitor.

> . . .

Roy Lewallen, W7EL

From -3479533643390516344
X-Google-Thread: fc2a5,bac179cb27ff0a46
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!sn-xt-sjc-05!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tapped capacitor tanks
Date: Mon, 20 Nov 2006 16:36:47 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12m4igu11b6c6de@corp.supernews.com>
References: <12m4902i6dq8t15@corp.supernews.com> <12m4eicmqlfjjdc@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-Complaints-To: abuse@supernews.com
Lines: 19
Xref: g2news2.google.com rec.radio.amateur.homebrew:7918

Hi Roy,

"Roy Lewallen" <w7el@eznec.com> wrote in message
news:12m4eicmqlfjjdc@corp.supernews.com...
> Sorry, no. EH antenna inventors and apologists notwithstanding, the phase of
> current doesn't change as it goes through a capacitor.

Agreed. I'm being rather loose in my terminology here, what I mean by "you get 90 degrees of phase shift going through the capacitor" is that the voltage across the capacitor ends up (must be) 90 degrees out of phase with respect to the reference current as you consider the capacitor's effect.

You don't disagree that the voltage at the top of a tapped capacitor L-C tank is 180 degrees out of phase what that at the bottom at resonance, do you?

---Joel

From 326800992689376951
X-Google-Thread: fcc6e,28966154715bb8e0
X-Google-Thread: fc2a5,5ea17aeb391094e4
X-Google-Thread: 10bf43,28966154715bb8e0
X-Google-Thread: 1109af,28966154715bb8e0
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: Group poll.
From: Slow Code <my.mail@no.spam>
References: <ODu5h.5284$0r.5279@newsread1.news.pas.earthlink.net>
<ej6cua$2naq$1@news.ndhu.edu.tw> <ej8knc$kn5$1@news.hawaii.edu>
<1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net>
<5lO7h.283$_H5.256@tornado.texas.rr.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 46
Message-ID: <u7s8h.1376$tM1.1345@newsread1.news.pas.earthlink.net>
Date: Tue, 21 Nov 2006 00:54:50 GMT
NNTP-Posting-Host: 4.227.160.162
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1164070490 4.227.160.162 (Mon, 20 Nov
2006 16:54:50 PST)
NNTP-Posting-Date: Mon, 20 Nov 2006 16:54:50 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:21764
rec.radio.amateur.homebrew:7919 rec.radio.amateur.policy:54971 rec.radio.swap:9998

"U-Know-Who" <no-one@nowhere.com> wrote in

```
news:5lO7h.283$_H5.256@tornado.texas.rr.com:

>
> "Slow Code" <my.mail@no.spam> wrote in message
> news:1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net...
>> jeffreyh@Hawaii.Edu (Jeffrey Herman) wrote in
>> news:ej8knc$kn5$1@news.hawaii.edu:
>>
>>> John Smith  <assemblywizard@gmail.com> wrote:
>>>>Idiot, check your spelling, it's "group troll."
>>>
>>> Well, let's see if he ment "poll" or "troll":
>>>
>>>
>>>         0  2  4  6  8  10
>>>                        /
>>>                       /
>>>                      /
>>>                     /
>>>                    /
>>>                   /
>>>                  /
>>>                 /
>>>           POLL-O-METER
>>
>>
>>
>> So what appliances does everyone hope Santa brings them for Xmas?
>>
>> HF, VHF, UHF, KENWOOD, YAESU, ICOM, Cobra?
>>
>>
>> I couldn't think of anything for myself, so I hope I just get a some
>> componants and a new soldering iron for projects so I can keep moving
>> forward in ham radio.
>>
>> SC
>
> And spell check for your PC. :-)


Which one do you have?  I want Santa to bring me a different one. The one
you have doesn't work.

SC



From 3115101044759770560
X-Google-Thread: 10bf43,8f0a65310a772163
X-Google-Thread: fc2a5,8f0a65310a772163
X-Google-Thread: 114aac,283666946a01996c
X-Google-Thread: 1109af,8f0a65310a772163
X-Google-Attributes: gid10bf43,gidfc2a5,gid114aac,gid1109af,public
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave,rec.radio.
swap
Subject: Re: Radio Shack store robbed
From: Slow Code <my.mail@no.spam>
References: <18671-4554BFEE-81@storefull-3253.bay.webtv.net>
<Y795h.5473$ig4.4880@newsread2.news.pas.earthlink.net>
<1163242919.789203.58630@b28g2000cwb.googlegroups.com>
<txW7h.4875$d42.4102@trndny07>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 11
Message-ID: <b8s8h.1394$tM1.938@newsread1.news.pas.earthlink.net>
Date: Tue, 21 Nov 2006 00:55:35 GMT
NNTP-Posting-Host: 4.227.160.162
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1164070535 4.227.160.162 (Mon, 20 Nov
2006 16:55:35 PST)
NNTP-Posting-Date: Mon, 20 Nov 2006 16:55:35 PST
Xref: g2news2.google.com rec.radio.amateur.policy:54981
rec.radio.amateur.homebrew:7920 rec.radio.shortwave:59352 rec.radio.swap:10003
```

"JOHN D" <jawnd393one@yahoo.com> wrote in
news:txW7h.4875$d42.4102@trndny07:

> I wonder if the robbers were able to make it out of the store without
> signing up for a new cell phone contract.

They clerk probably offered to give them their free battery of the month
on their way out the door too.

SC

```
From -4840196236228175023
X-Google-Thread: 10bf43,8f0a65310a772163
X-Google-Thread: fc2a5,8f0a65310a772163
X-Google-Thread: 114aac,283666946a01996c
X-Google-Thread: 1109af,8f0a65310a772163
X-Google-Attributes: gid10bf43,gidfc2a5,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news1.google.com!news.maxwell.syr.edu!
nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave,rec.radio.
swap
Subject: crapthon contiues
```

```
Date: Mon, 20 Nov 2006 20:14:54 -0500
Message-ID: <knk4m29aki1hhucfdqa4keek5vo2htc6cu@4ax.com>
References: <18671-4554BFEE-81@storefull-3253.bay.webtv.net>
<Y795h.5473$ig4.4880@newsread2.news.pas.earthlink.net>
<1163242919.789203.58630@b28g2000cwb.googlegroups.com>
<txW7h.4875$d42.4102@trndny07>
<b8s8h.1394$tM1.938@newsread1.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 16
NNTP-Posting-Date: 21 Nov 2006 00:20:22 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:54989
rec.radio.amateur.homebrew:7921 rec.radio.shortwave:59354 rec.radio.swap:10006

On Tue, 21 Nov 2006 00:55:35 GMT, Slow Code <my.mail@no.spam> wrote:

>"JOHN D" <jawnd393one@yahoo.com> wrote in
>news:txW7h.4875$d42.4102@trndny07:
>
>> I wonder if the robbers were able to make it out of the store without
>> signing up for a new cell phone contract.
>
>
>They clerk probably offered to give them their free battery of the month
>on their way out the door too.

can't you say something postive sc
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -5786212858573798629
X-Google-Thread: fcc6e,28966154715bb8e0
X-Google-Thread: fc2a5,5ea17aeb391094e4
X-Google-Thread: 10bf43,28966154715bb8e0
X-Google-Thread: 1109af,28966154715bb8e0
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.maxwell.syr.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: crapthon goes on
```

```
Date: Mon, 20 Nov 2006 20:15:39 -0500
Message-ID: <pok4m2ta9qrj4rutbpcsi81tblc558s7b1@4ax.com>
References: <ODu5h.5284$0r.5279@newsread1.news.pas.earthlink.net>
<ej6cua$2naq$1@news.ndhu.edu.tw> <ej8knc$kn5$1@news.hawaii.edu>
<1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net>
<5lO7h.283$_H5.256@tornado.texas.rr.com>
<u7s8h.1376$tM1.1345@newsread1.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 52
NNTP-Posting-Date: 21 Nov 2006 00:20:52 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21769
rec.radio.amateur.homebrew:7922 rec.radio.amateur.policy:54990
rec.radio.swap:10007

On Tue, 21 Nov 2006 00:54:50 GMT, Slow Code <my.mail@no.spam> wrote:

>"U-Know-Who" <no-one@nowhere.com> wrote in
>news:5lO7h.283$_H5.256@tornado.texas.rr.com:
>
>>
>> "Slow Code" <my.mail@no.spam> wrote in message
>> news:1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net...
>>> jeffreyh@Hawaii.Edu (Jeffrey Herman) wrote in
>>> news:ej8knc$kn5$1@news.hawaii.edu:
>>>
>>>> John Smith  <assemblywizard@gmail.com> wrote:
>>>>>Idiot, check your spelling, it's "group troll."
>>>>
>>>> Well, let's see if he ment "poll" or "troll":
>>>>
>>>>
>>>>         0  2  4  6  8  10
>>>>                        /
>>>>                       /
>>>>                      /
>>>>                     /
>>>>                    /
>>>>                   /
>>>>                  /
>>>>                 /
>>>>           POLL-O-METER
>>>
>>>
>>>
>>> So what appliances does everyone hope Santa brings them for Xmas?
>>>
>>> HF, VHF, UHF, KENWOOD, YAESU, ICOM, Cobra?
>>>
>>>
```

```
>>> I couldn't think of anything for myself, so I hope I just get a some
>>> componants and a new soldering iron for projects so I can keep moving
>>> forward in ham radio.
>>>
>>> SC
>>
>> And spell check for your PC. :-)
>
>
>Which one do you have?  I want Santa to bring me a different one. The one
>you have doesn't work.
could you say something postive SC?

just as a change you sourbitter OM
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From -2916572557142316324
X-Google-Thread: fc2a5,7aa1caf4012a8341,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns14feed!worldnet.att.net!24.30.200.11!news-east.rr.com!news-
wrt-01.southeast.rr.com!news-wrt-01.tampabay.rr.com!news-feed-01.tampabay.rr.com!
news.rr.com!news-post.tampabay.rr.com!tornado.tampabay.rr.com.POSTED!53ab2750!not-
for-mail
From: **THE-RFI-EMI-GUY** <rhyolite@nettally.com>
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Intersil CA3162E/CA3161E A/D BCD/7Segment problem Weller Soldering
 Station
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 25
Message-ID: <Y9u8h.7543$y92.6054@tornado.tampabay.rr.com>
Date: Tue, 21 Nov 2006 03:14:00 GMT
NNTP-Posting-Host: 70.121.227.31
X-Complaints-To: abuse@rr.com
X-Trace: tornado.tampabay.rr.com 1164078840 70.121.227.31 (Mon, 20 Nov 2006
22:14:00 EST)
NNTP-Posting-Date: Mon, 20 Nov 2006 22:14:00 EST
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7923
```

Subject: Intersil CA3162E/CA3161E A/D BCD/7Segment problem Weller
Soldering Station

Hi
I am trying to fil my Weller soldering station which has lost its
temperature readout. This particular model has the Intersil
CA3162E/CA3161E A/D and BCD/7Segment chips. When first turned on the
display flashes "EEE" and then goes blank. I shotgunned the repair by
replacing the filter caps in the power supply and though I had it fixed
but it is back to same problem.

In reading the Intersil application notes for the A/D convertor I don't
see a logical mode where EEE would be displayed

Does anyone have advice for troubleshooting this configuration?

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

From -8416137180232914674
X-Google-Thread: fc2a5,bac179cb27ff0a46
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!postnews.google.com!
m73g2000cwd.googlegroups.com!not-for-mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tapped capacitor tanks
Date: 20 Nov 2006 20:21:24 -0800
Organization: http://groups.google.com
Lines: 40
Message-ID: <1164082884.070560.213160@m73g2000cwd.googlegroups.com>
References: <12m4902i6dq8t15@corp.supernews.com>
   <12m4eicmqlfjjdc@corp.supernews.com>
   <12m4igu11b6c6de@corp.supernews.com>
NNTP-Posting-Host: 71.112.170.245
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1164082890 30245 127.0.0.1 (21 Nov 2006 04:21:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 21 Nov 2006 04:21:30 +0000 (UTC)
In-Reply-To: <12m4igu11b6c6de@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax),gzip(gfe),gzip(gfe)

Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=71.112.170.245;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7924

On Nov 20, 4:36 pm, "Joel Kolstad" <JKolstad71HatesS...@yahoo.com>
wrote:
> Hi Roy,
>
> "Roy Lewallen" <w...@eznec.com> wrote in
messagenews:12m4eicmqlfjjdc@corp.supernews.com...
>
> > Sorry, no. EH antenna inventors and apologists notwithstanding, the phase of
> > current doesn't change as it goes through a capacitor.Agreed. I'm being
rather loose in my terminology here, what I mean by "you
> get 90 degrees of phase shift going through the capacitor" is that the voltage
> across the capacitor ends up (must be) 90 degrees out of phase with respect to
> the reference current as you consider the capacitor's effect.
>
> You don't disagree that the voltage at the top of a tapped capacitor L-C tank
> is 180 degrees out of phase what that at the bottom at resonance, do you?
>
> ---Joel

Joel, what do you mean by "at the top" and "at the bottom"? Voltage measured with respect to what point? Clearly, if there is the same current through two capacitors in series, the voltages across each of them must be in phase, so the total voltage across the two is the simple arithmetic sum of the voltage across each. That assumes that they are ideal capacitors, but practical ones will come close. On the other hand, the currents in the two may not be exactly in phase, as you perhaps discovered with your low-Q tank. If the current at the node between the capacitors is contributed to by some external load or source, and if that additional current is not small compared with the tank's circulating current, then the capacitor currents may not be in phase, and the voltages then would also not be in phase, and you'd need to add them vectorially to get the right result.

Of course, Spice will simulate all this for you very nicely, using either a transient analysis, or a frequency-domain analysis if all the parts can be assumed to behave linearly.

Cheers,
Tom

From -7176200089585657768
X-Google-Thread: fc2a5,7aa1caf4012a8341
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII

Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 20 Nov 2006 22:37:29 -0600
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Y9u8h.7543$y92.6054@tornado.tampabay.rr.com>
Subject: Re: Intersil CA3162E/CA3161E A/D BCD/7Segment problem Weller Soldering Station
Date: Mon, 20 Nov 2006 22:37:26 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <R-2dnSv3V_AUH__YnZ2dnUVZ_sednZ2d@comcast.com>
Lines: 36
NNTP-Posting-Host: 67.176.141.93
X-Trace: sv3-wn3FCorUDD3kcxM/qrmUMDLrKCoizz64519ynvM3GUmO8vKiClCBSXT+bCsfc/jtH/83/x22yEIJen2!fndrrGbuzFmgS9VTqmzEunnV8L122MyH2c4HUkmNuNV86DHRcKI7IOZAhNIk0oLLOIPI+SdS0AcK!wIeqpljYW2BWJThBvJE=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7925

"**THE-RFI-EMI-GUY**" <rhyolite@nettally.com> wrote in message news:Y9u8h.7543$y92.6054@tornado.tampabay.rr.com...
> Subject: Intersil CA3162E/CA3161E A/D BCD/7Segment problem Weller
> Soldering Station
>
> Hi
> I am trying to fil my Weller soldering station which has lost its
> temperature readout. This particular model has the Intersil
> CA3162E/CA3161E A/D and BCD/7Segment chips. When first turned on the
> display flashes "EEE" and then goes blank. I shotgunned the repair by
> replacing the filter caps in the power supply and though I had it fixed
> but it is back to same problem.
>
> In reading the Intersil application notes for the A/D convertor I don't
> see a logical mode where EEE would be displayed
>
> Does anyone have advice for troubleshooting this configuration?
>
> --
> Joe Leikhim K4SAT
> "The RFI-EMI-GUY"�

Joe -

Which model are you trying to repair? EC 2002M ?

Positive your handpiece is okay? (Type-K thermocouple can go bad)

Bob Wurth just happens to have replacement control board
on eBay -- item number: 270057328135

reasonable price

Greg

```
From 6958558596990301205
X-Google-Thread: fc2a5,7aa1caf4012a8341
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon06.news.prodigy.net!prodigy.net!news-east.rr.com!news-
wrt-01.southeast.rr.com!news-wrt-01.tampabay.rr.com!news-feed-01.tampabay.rr.com!
news.rr.com!news-post.tampabay.rr.com!tornado.tampabay.rr.com.POSTED!53ab2750!not-
for-mail
Message-ID: <4562849B.4070706@nettally.com>
From: **THE-RFI-EMI-GUY** <rhyolite@nettally.com>
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Intersil CA3162E/CA3161E A/D BCD/7Segment problem Weller Soldering
 Station
References: <Y9u8h.7543$y92.6054@tornado.tampabay.rr.com>
<R-2dnSv3V_AUH__YnZ2dnUVZ_sednZ2d@comcast.com>
In-Reply-To: <R-2dnSv3V_AUH__YnZ2dnUVZ_sednZ2d@comcast.com>
Content-Type: multipart/alternative;
 boundary="------------040407080200040002010600"
Lines: 142
Date: Tue, 21 Nov 2006 04:45:25 GMT
NNTP-Posting-Host: 70.121.227.31
X-Complaints-To: abuse@rr.com
X-Trace: tornado.tampabay.rr.com 1164084325 70.121.227.31 (Mon, 20 Nov 2006
23:45:25 EST)
NNTP-Posting-Date: Mon, 20 Nov 2006 23:45:25 EST
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7926

This is a multi-part message in MIME format.
--------------040407080200040002010600
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
```

It is an EC2002A from way back. A nice clean unit except for the display
problem. I dug into it this weekend hoping it was just a bad capacitor
in the PS. It did start to work for a short time. There are numerous
potentiometers in the thing, its possible one is intermittent.

w9gb wrote:

>"**THE-RFI-EMI-GUY**" <rhyolite@nettally.com> wrote in message
>news:Y9u8h.7543$y92.6054@tornado.tampabay.rr.com...
>
>
>>Subject: Intersil CA3162E/CA3161E A/D BCD/7Segment problem Weller
>>Soldering Station
>>
>>Hi
>>I am trying to fil my Weller soldering station which has lost its
>>temperature readout. This particular model has the Intersil
>>CA3162E/CA3161E A/D and BCD/7Segment chips. When first turned on the
>>display flashes "EEE" and then goes blank. I shotgunned the repair by
>>replacing the filter caps in the power supply and though I had it fixed
>>but it is back to same problem.
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>>
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>>
>>--
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>>"The RFI-EMI-GUY"�
>>
>>
>
>Joe -
>
>Which model are you trying to repair? EC 2002M ?
>
>Positive your handpiece is okay? (Type-K thermocouple can go bad)
>
>Bob Wurth just happens to have replacement control board
>on eBay -- item number: 270057328135
>
>reasonable price
>
>Greg
>
>
>
>

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

```
--------------040407080200040002010600
Content-Type: text/html; charset=us-ascii
Content-Transfer-Encoding: 7bit

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
  <meta content="text/html;charset=ISO-8859-1" http-equiv="Content-Type">
  <title></title>
</head>
<body bgcolor="#ffffff" text="#000000">
It is an EC2002A from way back. A nice clean unit except for the
display problem. I dug into it this weekend hoping it was just a bad
capacitor in the PS. It did start to work for a short time. There are
numerous potentiometers in the thing, its possible one is intermittent.<br>
<br>
w9gb wrote:<br>
<blockquote cite="midR-2dnSv3V_AUH__YnZ2dnUVZ_sednZ2d@comcast.com"
 type="cite">
  <pre wrap="">"**THE-RFI-EMI-GUY**" <a class="moz-txt-link-rfc2396E"
href="mailto:rhyolite@nettally.com">&lt;rhyolite@nettally.com&gt;</a> wrote in
message
<a class="moz-txt-link-freetext"
href="news:Y9u8h.7543$y92.6054@tornado.tampabay.rr.com">news:Y9u8h.7543$y92.6054@t
ornado.tampabay.rr.com</a>...
  </pre>
  <blockquote type="cite">
    <pre wrap="">Subject: Intersil CA3162E/CA3161E A/D BCD/7Segment problem Weller
Soldering Station

Hi
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but it is back to same problem.

In reading the Intersil application notes for the A/D convertor I don't
see  a logical  mode where EEE would be displayed

Does anyone have advice for troubleshooting this configuration?

--
Joe Leikhim K4SAT
```

```
"The RFI-EMI-GUY"&copy;
    </pre>
  </blockquote>
  <pre wrap=""><!---->
Joe -

Which model are you trying to repair?  EC 2002M ?

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reasonable price

Greg


  </pre>
</blockquote>
<br>
<pre class="moz-signature" cols="72">--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"&copy;

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money"  ;-P

</pre>
</body>
</html>

--------------040407080200040002010600--


From -3194820747663480831
X-Google-Thread: fc2a5,bac179cb27ff0a46
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tapped capacitor tanks
Date: 21 Nov 2006 04:56:05 -0800
Organization: http://groups.google.com
Lines: 29
Message-ID: <1164113765.806813.185040@m7g2000cwm.googlegroups.com>
References: <12m4902i6dq8t15@corp.supernews.com>
   <12m4eicmqlfjjdc@corp.supernews.com>
   <12m4igu11b6c6de@corp.supernews.com>
   <1164082884.070560.213160@m73g2000cwd.googlegroups.com>
NNTP-Posting-Host: 66.19.112.125
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164113771 9485 127.0.0.1 (21 Nov 2006 12:56:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 21 Nov 2006 12:56:11 +0000 (UTC)
In-Reply-To: <1164082884.070560.213160@m73g2000cwd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=66.19.112.125;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:7927



K7ITM wrote:>
> Of course, Spice will simulate all this for you very nicely, using
> either a transient analysis, or a frequency-domain analysis if all the
> parts can be assumed to behave linearly.
>
> Cheers,
> Tom

Andy writes
  I'll second that.   J  , try your ideas out on SPICE.  Try to figure
out
what it will do before you simulate it, and then use the simulation to
check your conclusions.....  I've found it to be invaluable in
straightening
me out on some of the ways I "thought" nature worked, and in getting
a lot of things straight.....

   Same with EZNEC, if you have it.......  I learned a lot more about
how
antennae really work from EZNEC than in 30 years of cutting wires and
hooking up SWR meters......

  Simulators are wonderful things.  And no one has to know about the
times one turns out to be wrr...wrrro....wr.r...........
imprecise....

                   Andy  W4OAH




From 1675605745350524177
X-Google-Thread: fc2a5,806fa2d9ac6b8cd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news2.volia.net!
newsfeed.utanet.at!newsfeed01.chello.at!newsfeed.arcor.de!newsspool1.arcor-
```

online.net!news.arcor.de.POSTED!not-for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew
References: <S_p6h.5885$IR4.4647@newssvr25.news.prodigy.net>
<ejdisq$d6f$1@skeeter.ucdavis.edu>
<1163594390.633812.100730@f16g2000cwb.googlegroups.com>
<1163615358.097947.19460@m73g2000cwd.googlegroups.com>
<Lc%6h.18$z01.14@newsfe04.lga>
<1163947320.301105.300080@m73g2000cwd.googlegroups.com>
<12m1ppk29p54u82@corp.supernews.com>
Subject: Re: ferrrite in linear tank coil ?
Date: Tue, 21 Nov 2006 16:08:11 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 18
Message-ID: <45631675$1$30315$9b4e6d93@newsspool1.arcor-online.net>
Organization: Arcor
NNTP-Posting-Date: 21 Nov 2006 16:08:37 CET
NNTP-Posting-Host: ac997b73.newsspool1.arcor-online.net
X-Trace:
DXC=CUb3a4_UBTLI7_^6>c20Jic==]BZ:afN4Fo<]lROoRA^YC2XCjHcbIh8]6VnSAAECVX4M12AVlMKH
Yl5Dd>ETLC=VaY?n@6``OXenPUYYK5QG
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7928

"Roy Lewallen" <w7el@eznec.com> schrieb im Newsbeitrag
news:12m1ppk29p54u82@corp.supernews.com...
> Loss is related to the ratio of unloaded Q to loaded Q. All else being
> equal, lowering the unloaded Q will increase loss, but lowering the
> loaded Q will decrease loss. As others have posted, the unloaded Q is a
> characteristic of the tank circuit itself, usually primarily the
> inductor; loaded Q is largely dictated by the external load and how it's
> coupled to the tank. Hence the tendency to keep the inductor Q high but
> not make the loaded Q any higher than necessary for harmonic and spur
> reduction.

I would add: To high the Q and you wan't be able to modulate it anymore (AM,
FM, etc).

- Henry

From -6788183862205900818
X-Google-Thread: fc2a5,bac179cb27ff0a46
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!nntpserver.com!

zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: "john jardine" <john@jjdesigns.fsnet.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <12m4902i6dq8t15@corp.supernews.com>
Subject: Re: Tapped capacitor tanks
Date: Tue, 21 Nov 2006 15:20:08 -0000
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Lines: 32
Message-ID: <45630c4d$0$21188$88260bb3@free.teranews.com>
NNTP-Posting-Date: 21 Nov 2006 14:25:18 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7929

"Joel Kolstad" <JKolstad71HatesSpam@yahoo.com> wrote in message
news:12m4902i6dq8t15@corp.supernews.com...
[...]
>
> I started going through the math involved and determined that you can
readily
> confuse yourself if you don't make the "high Q" assumption. For instance,
> something like a 1 ohm source and 1 ohm load feeding a tank of 159.2mH (j1
> ohms) and 2 318.3mF caps (-j/2 ohms) has such a horribly low Q that there
> isn't a 180 degree phase shift top to bottom, nor is the resonant
frequency
> 1Hz.
>
> Thanks,
> ---Joel Kolstad
>
>
>
Made an inductance meter based on a resonant LC circuit and used a PIC to
back calculate the inductance and Q values based on known F and C and
currents. Circuit was able to work down to Q values of <1 at frequencies
down to 5Hz. Worked well.
Did the programming and found it just wouldn't calculate the correct L
values when working at low Q. Spent hours doing tests until it dawned on me
that I'd stupidly programmed in the "standard" resonance formula.
Suddenly became sweetness and light when I reprogrammed for ...
Frequency= 1/2*pi * sqrt(1/LC -R^2/L^2).
I continue to live and learn :)
john

--
Posted via a free Usenet account from http://www.teranews.com

```
From -6263050310106972898
X-Google-Thread: fc2a5,806fa2d9ac6b8cd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-
mail
From: "Denny" <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ferrrite in linear tank coil ?
Date: 21 Nov 2006 08:36:47 -0800
Organization: http://groups.google.com
Lines: 25
Message-ID: <1164127007.753192.125990@b28g2000cwb.googlegroups.com>
References: <S_p6h.5885$IR4.4647@newssvr25.news.prodigy.net>
   <ejdisq$d6f$1@skeeter.ucdavis.edu>
   <1163594390.633812.100730@f16g2000cwb.googlegroups.com>
   <5sbml29dsjt2njd33gm4l763b1nieabvs6@4ax.com>
   <uTI7h.813$m9.548@bignews2.bellsouth.net>
NNTP-Posting-Host: 24.247.246.156
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164127013 11122 127.0.0.1 (21 Nov 2006 16:36:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 21 Nov 2006 16:36:53 +0000 (UTC)
In-Reply-To: <uTI7h.813$m9.548@bignews2.bellsouth.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.8)
Gecko/20061025 Firefox/1.5.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=24.247.246.156;
   posting-account=GhrC0g0AAACdrABM-CDx8Fhs5lKJR5q2
Xref: g2news2.google.com rec.radio.amateur.homebrew:7930
```

Ya know, I built an 80/40 similar transmitter back in 1960 and used a chunk of ferrite from a BC radio loop antenna inside the 80 coil form to resonate it on 80 meters - the ferrite was moved around until the tank made the best power out on an RF ammeter then it was glued in that position... A tube VTVM from Heathkit was used to help build the transmitter - and the kit SWL receiver from Lafayette Radio which received the entire ham band with the dial at one setting :)
Lots of bean soup and 'day old' bread from the bakery...Good memories...

I think that is why I subconciously posted the word ferrite when commenting about the current trend to toroids in the tank circuit...

denny / k8do

73, Bill W6WRT

> Bill, there is a transmitter described in the 1967 ARRL handbook

> that does indeed have a small piece of 1/2 dia ferrite rod (broken off a
> BCB loop stick) inside the 80meter tank coil to decrease the number of
> turns needed in the coil. This was a two tube transmitter using a 12by7
> and a 1625. Plug in coils are used for the oscillator and final tank
> circuits.

```
From -1676356991929611241
X-Google-Thread: fc2a5,bac179cb27ff0a46
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-
mail
From: "Denny" <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tapped capacitor tanks
Date: 21 Nov 2006 08:39:11 -0800
Organization: http://groups.google.com
Lines: 12
Message-ID: <1164127150.956065.227610@h48g2000cwc.googlegroups.com>
References: <12m4902i6dq8t15@corp.supernews.com>
   <12m4eicmqlfjjdc@corp.supernews.com>
   <12m4igu11b6c6de@corp.supernews.com>
   <1164082884.070560.213160@m73g2000cwd.googlegroups.com>
   <1164113765.806813.185040@m7g2000cwm.googlegroups.com>
NNTP-Posting-Host: 24.247.246.156
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164127156 11561 127.0.0.1 (21 Nov 2006 16:39:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 21 Nov 2006 16:39:16 +0000 (UTC)
In-Reply-To: <1164113765.806813.185040@m7g2000cwm.googlegroups.com>
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X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.8)
Gecko/20061025 Firefox/1.5.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h48g2000cwc.googlegroups.com; posting-host=24.247.246.156;
   posting-account=GhrC0g0AAACdrABM-CDx8Fhs5lKJR5q2
Xref: g2news2.google.com rec.radio.amateur.homebrew:7931
```

Quite a stutter you have there... However my wife uses that word
frequently while, like you, I can't quite agree with her...

denny / k8do
AndyS wrote:

>   Simulators are wonderful things. And no one has to know about the
> times one turns out to be wrr...wrrro....wr.r..........
> imprecise....
>
>   Andy W4OAH

```
From 5468877253101683168
X-Google-Thread: fc2a5,bac179cb27ff0a46
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tapped capacitor tanks
Date: 21 Nov 2006 09:09:50 -0800
Organization: http://groups.google.com
Lines: 14
Message-ID: <1164128990.022036.196250@m7g2000cwm.googlegroups.com>
References: <12m4902i6dq8t15@corp.supernews.com>
   <12m4eicmqlfjjdc@corp.supernews.com>
   <12m4igu11b6c6de@corp.supernews.com>
   <1164082884.070560.213160@m73g2000cwd.googlegroups.com>
   <1164113765.806813.185040@m7g2000cwm.googlegroups.com>
   <1164127150.956065.227610@h48g2000cwc.googlegroups.com>
NNTP-Posting-Host: 66.19.113.129
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164128996 16379 127.0.0.1 (21 Nov 2006 17:09:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 21 Nov 2006 17:09:56 +0000 (UTC)
In-Reply-To: <1164127150.956065.227610@h48g2000cwc.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=66.19.113.129;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:7932


Denny wrote:
> Quite a stutter you have there...  However my wife uses that word
> frequently while, like you, I can't quite agree with her...
>
> denny / k8do
> AndyS wrote:
>
> >   Simulators are wonderful things.  And no one has to know about the
> > times one turns out to be wrr...wrrro....wr.r..........
> > imprecise....
> >
> >                     Andy  W4OAH



From 3641795357927652680
```

```
X-Google-Thread: fc2a5,bac179cb27ff0a46
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tapped capacitor tanks
Date: 21 Nov 2006 09:12:31 -0800
Organization: http://groups.google.com
Lines: 18
Message-ID: <1164129151.627133.281200@b28g2000cwb.googlegroups.com>
References: <12m4902i6dq8t15@corp.supernews.com>
   <12m4eicmqlfjjdc@corp.supernews.com>
   <12m4igu11b6c6de@corp.supernews.com>
   <1164082884.070560.213160@m73g2000cwd.googlegroups.com>
   <1164113765.806813.185040@m7g2000cwm.googlegroups.com>
   <1164127150.956065.227610@h48g2000cwc.googlegroups.com>
NNTP-Posting-Host: 66.19.113.129
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164129157 24997 127.0.0.1 (21 Nov 2006 17:12:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 21 Nov 2006 17:12:37 +0000 (UTC)
In-Reply-To: <1164127150.956065.227610@h48g2000cwc.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=66.19.113.129;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:7933
```

Denny wrote:

> Quite a stutter you have there... However my wife uses that word
> frequently while, like you, I can't quite agree with her...
>
> denny / k8do

Andy comments:

My wife has no problem with saying "YOU ARE WRONG !!""
Her speech has always been flawless...

Personally, I think that overuse of a particular description shows a character flaw.... But I love her.... and keep my mouth shut....

Andy in Eureka

```
From 4650146329853266075
X-Google-Thread: fc2a5,5fc474ed0e865783,start
X-Google-Thread: 10c2ee,5fc474ed0e865783,start
X-Google-Thread: fc8b1,5fc474ed0e865783,start
X-Google-Attributes: gidfc2a5,gid10c2ee,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newscon06.news.prodigy.net!
prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr27.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@sbcglobal.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.antiques.radio+phono,rec.radio.amateur.boatanchors
Subject: GR 1650-B STX-107 ?
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <mzL8h.17668$B31.6161@newssvr27.news.prodigy.net>
NNTP-Posting-Host: 70.143.50.241
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr27.news.prodigy.net 1164150098 ST000 70.143.50.241 (Tue, 21 Nov
2006 18:01:38 EST)
NNTP-Posting-Date: Tue, 21 Nov 2006 18:01:38 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
TSU[@I_A\S@ERQXXKZOX_RXAUSXB@DTMNHWB_EYLJZ]BGIELLNTC@AWZWDXZXQ[K\FFSKCVM@F_N_DOBWV
WG__LG@VVOIPLIGX\
\BU_B@\P\PFX\B[APHTWAHDCKJF^NHD[YJAZMCY_CWG[SX\Y]^KC\HSZRWSWKGAY_PC[BQ[BXAS\F\
\@DMTLFZFUE@\VL
Date: Tue, 21 Nov 2006 23:01:38 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7934
rec.antiques.radio+phono:38808 rec.radio.amateur.boatanchors:6413

Anyone have a spare copy of the Student-Experimenter pamphlet GR Pub.
STX-107 "The Universal Impedance Bridge"?  I'd like to get a copy, scan or
the original.
tnx

--

73
Hank WD5JFR




From -2583378181121806347
X-Google-Thread: fc2a5,7aa1caf4012a8341
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 21 Nov 2006 21:24:09 -0600
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <Y9u8h.7543$y92.6054@tornado.tampabay.rr.com>
<R-2dnSv3V_AUH__YnZ2dnUVZ_sednZ2d@comcast.com> <4562849B.4070706@nettally.com>
Subject: Re: Intersil CA3162E/CA3161E A/D BCD/7Segment problem Weller Soldering
Station
Date: Tue, 21 Nov 2006 21:24:05 -0600
MIME-Version: 1.0
Content-Type: multipart/alternative;
     boundary="----=_NextPart_000_005F_01C70DB3.6014A020"
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <35WdnQKRSMlEX_7YnZ2dnUVZ_qKdnZ2d@comcast.com>
Lines: 67
NNTP-Posting-Host: 67.176.141.93
X-Trace: sv3-
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PnQOyzG3uHVI+Sc3DFU=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7935

This is a multi-part message in MIME format.

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Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

"**THE-RFI-EMI-GUY**" <rhyolite@nettally.com> wrote in message =
news:4562849B.4070706@nettally.com...

It is an EC2002A from way back. A nice clean unit except for the display =
problem. I dug into it this weekend hoping it was just a bad capacitor =
in the PS. It did start to work for a short time. There are numerous =
potentiometers in the thing, its possible one is intermittent.
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D

I probably have a ceramic based board of that era around in my Weller =
parts. =20

A local distributor just cleared out his inventory on eBay of Weller =
boards of that era.  I think I posted most of my schematics and Tech =
Sheets I had in stock --=20

w9gb
------=_NextPart_000_005F_01C70DB3.6014A020
Content-Type: text/html;
	charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

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<STYLE></STYLE>
</HEAD>
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<DIV>"**THE-RFI-EMI-GUY**" &lt;<A=20
href=3D"mailto:rhyolite@nettally.com">rhyolite@nettally.com</A>&gt; =
wrote in=20
message <A=20
href=3D"news:4562849B.4070706@nettally.com">news:4562849B.4070706@nettall=
y.com</A>...</DIV>
<DIV>&nbsp;</DIV>
<DIV>It is an EC2002A from way back. A nice clean unit except for the =
display=20
problem. I dug into it this weekend hoping it was just a bad capacitor =
in the=20
PS. It did start to work for a short time. There are numerous =
potentiometers in=20
the thing, its possible one is intermittent.</DIV>
<DIV><FONT size=3D2>=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D</FONT></DIV>
<DIV><FONT size=3D2></FONT>&nbsp;</DIV>
<DIV><FONT size=3D2>I probably have a ceramic based board of that era =
around in my=20
Weller parts.&nbsp; </FONT></DIV>
<DIV><FONT size=3D2></FONT>&nbsp;</DIV>
<DIV><FONT size=3D2>A local distributor just cleared out his inventory =
on eBay of=20
Weller boards of&nbsp;that era.&nbsp; I think I posted most of my =
schematics and=20
Tech Sheets I had in stock -- </FONT></DIV>
<DIV><FONT size=3D2></FONT>&nbsp;</DIV>
<DIV><FONT size=3D2>w9gb</FONT></DIV></BODY></HTML>

------=_NextPart_000_005F_01C70DB3.6014A020--



From -1058464788663055863
X-Google-Thread: fc2a5,806fa2d9ac6b8cd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ferrrite in linear tank coil ?
Date: Wed, 22 Nov 2006 07:50:27 -0800
Message-ID: <q7s8m2ptnl7dad3a4llc4fd99n857ibicm@4ax.com>
References: <S_p6h.5885$IR4.4647@newssvr25.news.prodigy.net>
<ejdisq$d6f$1@skeeter.ucdavis.edu>
<1163594390.633812.100730@f16g2000cwb.googlegroups.com>
<1163615358.097947.19460@m73g2000cwd.googlegroups.com>
<Lc%6h.18$z01.14@newsfe04.lga> <NJK7h.1745$_x3.1691@trndny02>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node131-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1164197771 66.52.61.131 (22 Nov 2006 07:16:11 -0500)
Lines: 19
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.131
Path: g2news2.google.com!news4.google.com!news3.google.com!news.glorb.com!news-spur1.maxwell.syr.edu!news.maxwell.syr.edu!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:7936

ORIGINAL MESSAGE:

On Sat, 18 Nov 2006 21:15:25 GMT, "W3JDR" <joe@roccis.com> wrote:

>The inclusion of ferrite has
>little to do with "loaded Q" and thus little to do with the bandwidth of the
>circuit (at least for practical first-order considerations; small tuned
>circuit losses do have a small second-order effect on bandwidth).

------------ REPLY FOLLOWS ------------

It isn't a question of "Q", it's a question of whether the ferrite
goes into saturation on current peaks. If it does not, then all is ok
but if it does, severe distortion of the RF waveform will occur and
harmonic generation will be excessive. Powdered iron is a much better
choice for this application.

Bill, W6WRT

From 4806179388304548669
X-Google-Thread: fc2a5,20a5a8a1359179e3,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newstrans.cos.agilent.com!not-for-mail
From: "Al Lorona" <al_lorona@agilent.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HD Radio on an Analog Receiver

Date: Wed, 22 Nov 2006 10:57:00 -0800
Organization: None
Lines: 25
Message-ID: <1164221004.219572@newsreg.cos.agilent.com>
NNTP-Posting-Host: newsreg.cos.agilent.com
X-Trace: newstrans.cos.agilent.com 1164221821 11501 130.29.134.111 (22 Nov 2006 18:57:01 GMT)
X-Complaints-To: usenet@newstrans.cos.agilent.com
NNTP-Posting-Date: Wed, 22 Nov 2006 18:57:01 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Cache-Post-Path: newsreg.cos.agilent.com!unknown@scs1nai138147.scs.agilent.com
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7937

Hi, Everybody,

Over the past couple of years several AM broadcast stations in the L.A. area have begun transmitting the new "HD Radio" signal. A "high quality" digital signal is superimposed on the standard AM signal and so the station can be received with either type of receiver. I believe there are about ten stations now doing this here in L.A. and probably everywhere else in the country.

Have you tried this?: Tune in a local HD AM broadcast station on your general coverage receiver in SSB mode, either USB or LSB. When you zero beat the station you will hear a loud rushing noise floor behind the program audio. This morning, Rush Limbaugh and Dan Patrick sounded like they were each doing their shows from in front of Niagara Falls.

Even in AM mode, as you approach the station from either direction you'll hear a hideous broadband noise until you get onto channel center. It's really annoying and bad for AM DXing because of the interference (in the form of increased noise floor) these local stations cause to the weak DX ones on either side of them.

Al W6LX

From -2445114712643944443
X-Google-Thread: fcc6e,28966154715bb8e0
X-Google-Thread: fc2a5,5ea17aeb391094e4
X-Google-Thread: 10bf43,28966154715bb8e0
X-Google-Thread: 1109af,28966154715bb8e0
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!

```
newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: Group poll.
From: Slow Code <my.mail@no.spam>
References: <ODu5h.5284$0r.5279@newsread1.news.pas.earthlink.net>
<ej6cua$2naq$1@news.ndhu.edu.tw> <ej8knc$kn5$1@news.hawaii.edu>
<1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net>
<5lO7h.283$_H5.256@tornado.texas.rr.com>
<u7s8h.1376$tM1.1345@newsread1.news.pas.earthlink.net>
<oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 62
Message-ID: <Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net>
Date: Thu, 23 Nov 2006 00:01:57 GMT
NNTP-Posting-Host: 4.254.226.143
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1164240117 4.254.226.143 (Wed, 22 Nov
2006 16:01:57 PST)
NNTP-Posting-Date: Wed, 22 Nov 2006 16:01:57 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:21857
rec.radio.amateur.homebrew:7938 rec.radio.amateur.policy:55134
rec.radio.swap:10055

Joe Bloe <abaslon@comcast.net> wrote in
news:oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com:

> On Tue, 21 Nov 2006 00:54:50 GMT, Slow Code <my.mail@no.spam> wrote:
>
>>"U-Know-Who" <no-one@nowhere.com> wrote in
>>news:5lO7h.283$_H5.256@tornado.texas.rr.com:
>>
>>>
>>> "Slow Code" <my.mail@no.spam> wrote in message
>>> news:1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net...
>>>> jeffreyh@Hawaii.Edu (Jeffrey Herman) wrote in
>>>> news:ej8knc$kn5$1@news.hawaii.edu:
>>>>
>>>>> John Smith  <assemblywizard@gmail.com> wrote:
>>>>>>Idiot, check your spelling, it's "group troll."
>>>>>
>>>>> Well, let's see if he ment "poll" or "troll":
>>>>>
>>>>>
>>>>>         0  2  4  6  8  10
>>>>>                        /
>>>>>                       /
>>>>>                      /
>>>>>                     /
>>>>>                    /
>>>>>                   /
```

```
>>>>>                  /
>>>>>                 /
>>>>>           POLL-O-METER
>>>>
>>>>
>>>>
>>>> So what appliances does everyone hope Santa brings them for Xmas?
>>>>
>>>> HF, VHF, UHF, KENWOOD, YAESU, ICOM, Cobra?
>>>>
>>>>
>>>> I couldn't think of anything for myself, so I hope I just get a some
>>>> componants and a new soldering iron for projects so I can keep moving
>>>> forward in ham radio.
>>>>
>>>> SC
>>>
>>> And spell check for your PC. :-)
>>
>>
>>Which one do you have?  I want Santa to bring me a different one. The
>>one you have doesn't work.
>>
>>SC
>
>
>   Clip and paste to "Word for Windows". . .  It's got the best spell
> checker in the market.  Just leave it running in the backgrould and
> call it up when you need to type out a letter or two.


Thanks,  I'll pass that on to U-Know-Who, but he probably don't have word,
just computer games.

SC



From -5548829839882132728
X-Google-Thread: fcc6e,21281c8b88ac790b,start
X-Google-Thread: fc2a5,21281c8b88ac790b,start
X-Google-Thread: 10bf43,21281c8b88ac790b,start
X-Google-Thread: 114aac,21281c8b88ac790b,start
X-Google-Thread: 1109af,21281c8b88ac790b,start
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.shortwave,rec.radio.swap
Subject: I just start the threads, you people have to keep them going.
From: Slow Code <my.mail@no.spam>
```

```
Organization: None
User-Agent: Xnews/5.04.25
Lines: 7
Message-ID: <Xx59h.2180$ql2.36@newsread3.news.pas.earthlink.net>
Date: Thu, 23 Nov 2006 00:01:59 GMT
NNTP-Posting-Host: 4.254.226.143
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1164240119 4.254.226.143 (Wed, 22 Nov
2006 16:01:59 PST)
NNTP-Posting-Date: Wed, 22 Nov 2006 16:01:59 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:21859
rec.radio.amateur.homebrew:7939 rec.radio.amateur.policy:55136
rec.radio.shortwave:59548 rec.radio.swap:10057
```

I just start the threads, You people need to keep them going.

But if I see a Pro-coder getting ganged up on by CW haters, I'll come back in and help kick some no-code ass.

Sc

```
From -4387281792433561076
X-Google-Thread: fc2a5,806fa2d9ac6b8cd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!cycny01.gnilink.net!
spamkiller2.gnilink.net!gnilink.net!trndny03.POSTED!0da99462!not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <S_p6h.5885$IR4.4647@newssvr25.news.prodigy.net>
<ejdisq$d6f$1@skeeter.ucdavis.edu>
<1163594390.633812.100730@f16g2000cwb.googlegroups.com>
<1163615358.097947.19460@m73g2000cwd.googlegroups.com>
<Lc%6h.18$z01.14@newsfe04.lga> <NJK7h.1745$_x3.1691@trndny02>
<q7s8m2ptnl7dad3a4llc4fd99n857ibicm@4ax.com>
Subject: Re: ferrrite in linear tank coil ?
Lines: 33
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <8J59h.5539$IW2.4215@trndny03>
Date: Thu, 23 Nov 2006 00:13:56 GMT
NNTP-Posting-Host: 68.236.47.120
X-Complaints-To: abuse@verizon.net
X-Trace: trndny03 1164240836 68.236.47.120 (Wed, 22 Nov 2006 19:13:56 EST)
NNTP-Posting-Date: Wed, 22 Nov 2006 19:13:56 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:7940
```

Bill,

What you say is very true, but the context the clip was taken from had nothing to do with distortion, it was about Q and bandwidth.

Joe
W3JDR

"Bill Turner" <noway@nowhow.com> wrote in message
news:q7s8m2ptnl7dad3a4llc4fd99n857ibicm@4ax.com...
> ORIGINAL MESSAGE:
>
> On Sat, 18 Nov 2006 21:15:25 GMT, "W3JDR" <joe@roccis.com> wrote:
>
>
>>The inclusion of ferrite has
>>little to do with "loaded Q" and thus little to do with the bandwidth of
>>the
>>circuit (at least for practical first-order considerations; small tuned
>>circuit losses do have a small second-order effect on bandwidth).
>
> ------------ REPLY FOLLOWS ------------
>
> It isn't a question of "Q", it's a question of whether the ferrite
> goes into saturation on current peaks. If it does not, then all is ok
> but if it does, severe distortion of the RF waveform will occur and
> harmonic generation will be excessive. Powdered iron is a much better
> choice for this application.
>
> Bill, W6WRT

```
From -3556492145689318873
X-Google-Thread: fc8b1,41d1fc809a8e0f8d,start
X-Google-Thread: fc2a5,41d1fc809a8e0f8d,start
X-Google-Attributes: gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 22 Nov 2006 18:20:31 -0600
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Ownership change at International Radio
Date: Wed, 22 Nov 2006 18:20:28 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
```

Message-ID: <pKSdnRC3vYHSdPnYnZ2dnUVZ_hydnZ2d@comcast.com>
Lines: 28
NNTP-Posting-Host: 67.176.141.93
X-Trace: sv3-
oRKtPj9ja0sS13OrbB77xtxPEHoYlmIbjMAQmRjAfdTZcmGpGZHFrBSg7UcHek3GmpZOXXcngJmq9FA!
lw7DjPSrQqPEUK/cGPT8ZtXMNcbI9oE8VEw0ZE8mzgzFKJUzzkecSIJXCV/SupMaINlPanUBSknP!
2Rs5yLRKFu4qqner7k4=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6427 rec.radio.amateur.homebrew:7941

ANNOUNCING the SALE of INTERNATIONAL RADIO
http://www.qth.com/inrad/

George, W2VJN and Georgia are pleased to announce that effective January 1st, 2007 International Radio will be under new ownership. We wish to thank our many customers for their business and friendship over the almost ten years we have owned this company. We have learned much and worked hard, and it has all been good, but it is time for us to look ahead.

International Radio will be in the very capable hands of new owners Trey, N5KO, and Mark, AG9A. Trey and Mark are dedicated radio amateurs who appreciate all aspects of this hobby - especially contesting! They have ideas for the future, and they will not only sustain Inrad; they will improve it. We look forward to helping them succeed in any way we can. In particular, George will stay involved in the development of new products.

For more than two years we have been assisted by Laurie, our employee extraordinaire. Many of you know her and we know you join us in thanking her for her hard work and dedication. We will keep her as a valued friend.

Our final day in business will be December 15th, 2006. International Radio will then be CLOSED until January 1st, 2007. Online orders will be gladly accepted during this time and fulfilled when we reopen in January. Watch the website for the announcement of the annual New Year's Day Sale.

George, W2VJN

From 5230489964092813431
X-Google-Thread: fcc6e,28966154715bb8e0
X-Google-Thread: fc2a5,5ea17aeb391094e4
X-Google-Thread: 10bf43,28966154715bb8e0
X-Google-Thread: 1109af,28966154715bb8e0
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit

```
Path: g2news2.google.com!news3.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: crapthon goes on
Date: Wed, 22 Nov 2006 20:06:42 -0500
Message-ID: <70t9m2ddgqvtjuld66h1apql8oica0foee@4ax.com>
References: <ODu5h.5284$0r.5279@newsread1.news.pas.earthlink.net>
<ej6cua$2naq$1@news.ndhu.edu.tw> <ej8knc$kn5$1@news.hawaii.edu>
<1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net>
<5lO7h.283$_H5.256@tornado.texas.rr.com>
<u7s8h.1376$tM1.1345@newsread1.news.pas.earthlink.net>
<oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com>
<Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 66
NNTP-Posting-Date: 23 Nov 2006 00:11:58 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21866
rec.radio.amateur.homebrew:7942 rec.radio.amateur.policy:55151
rec.radio.swap:10062

On Thu, 23 Nov 2006 00:01:57 GMT, Slow Code <my.mail@no.spam> wrote:

>Joe Bloe <abaslon@comcast.net> wrote in
>news:oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com:
>
>> On Tue, 21 Nov 2006 00:54:50 GMT, Slow Code <my.mail@no.spam> wrote:
>>
>>>"U-Know-Who" <no-one@nowhere.com> wrote in
>>>news:5lO7h.283$_H5.256@tornado.texas.rr.com:
>>>
>>>>
>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>> news:1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net...
>>>>> jeffreyh@Hawaii.Edu (Jeffrey Herman) wrote in
>>>>> news:ej8knc$kn5$1@news.hawaii.edu:
>>>>>
>>>>>> John Smith  <assemblywizard@gmail.com> wrote:
>>>>>>>Idiot, check your spelling, it's "group troll."
>>>>>>
>>>>>> Well, let's see if he ment "poll" or "troll":
>>>>>>
>>>>>>
>>>>>>         0  2  4  6  8  10
>>>>>>                        /
>>>>>>                       /
>>>>>>                      /
```

```
>>>>>>                     /
>>>>>>                    /
>>>>>>                   /
>>>>>>                  /
>>>>>>                 /
>>>>>>           POLL-O-METER
>>>>>
>>>>>
>>>>>
>>>>> So what appliances does everyone hope Santa brings them for Xmas?
>>>>>
>>>>> HF, VHF, UHF, KENWOOD, YAESU, ICOM, Cobra?
>>>>>
>>>>>
>>>>> I couldn't think of anything for myself, so I hope I just get a some
>>>>> componants and a new soldering iron for projects so I can keep moving
>>>>> forward in ham radio.
>>>>>
>>>>> SC
>>>>
>>>> And spell check for your PC. :-)
>>>
>>>
>>>Which one do you have?  I want Santa to bring me a different one. The
>>>one you have doesn't work.
>>>
>>>SC
>>
>>
>>   Clip and paste to "Word for Windows". . .  It's got the best spell
>> checker in the market.  Just leave it running in the backgrould and
>> call it up when you need to type out a letter or two.
>
>
>Thanks,  I'll pass that on to U-Know-Who, but he probably don't have word,
>just computer games.
>
>SC
ah right on time
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From 4297543101115940914
X-Google-Thread: fc2a5,20a5a8a1359179e3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon06.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
```

```
newssvr11.news.prodigy.com.POSTED!e30c9081!not-for-mail
From: "Roger Leone" <raleoneTAKEOUT@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1164221004.219572@newsreg.cos.agilent.com>
Subject: Re: HD Radio on an Analog Receiver
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2869
X-RFC2646: Format=Flowed; Original
Message-ID: <Rb79h.9178$6t.2964@newssvr11.news.prodigy.com>
NNTP-Posting-Host: 68.122.238.32
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr11.news.prodigy.com 1164246897 ST000 68.122.238.32 (Wed, 22 Nov
2006 20:54:57 EST)
NNTP-Posting-Date: Wed, 22 Nov 2006 20:54:57 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
TSUGGWCEYJWMBQ\YN[O@_WH@YR_B@EXLLBWLOOAFQATJUZ]CDVW[AKK[J\]^HVKHG^EWZHBLO^[\NH_AZF
WGN^\DHNVMX_DHHX[FSQKBOTS@@BP^]C@RHS_AGDDC[AJM_T[GZNRNZAY]GNCPBDYKOLK^_CZFWPGHZIXW
@C[AFKBBQS@E@DAZ]VDFUNTQQ]FN
Date: Thu, 23 Nov 2006 01:54:57 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7943
```

Info isn't plentiful on this, but these may be of interest:

http://www.ibiquity.com/

http://users.tns.net/~bb/hdrsn.htm

Roger K6XQ

```
From -2246777163916708936
X-Google-Thread: fcc6e,21281c8b88ac790b
X-Google-Thread: fc2a5,21281c8b88ac790b
X-Google-Thread: 10bf43,21281c8b88ac790b
X-Google-Thread: 114aac,21281c8b88ac790b
X-Google-Thread: 1109af,21281c8b88ac790b
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!j44g2000cwa.googlegroups.com!not-for-
mail
From: "an_old_friend" <konstans@hotmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.shortwave,rec.radio.swap
Subject: crapthon goes on
Date: 22 Nov 2006 18:28:03 -0800
Organization: http://groups.google.com
```

```
Lines: 6
Message-ID: <1164248883.800192.209290@j44g2000cwa.googlegroups.com>
References: <Xx59h.2180$ql2.36@newsread3.news.pas.earthlink.net>
NNTP-Posting-Host: 69.19.14.28
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164248888 26094 127.0.0.1 (23 Nov 2006 02:28:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 23 Nov 2006 02:28:08 +0000 (UTC)
In-Reply-To: <Xx59h.2180$ql2.36@newsread3.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: j44g2000cwa.googlegroups.com; posting-host=69.19.14.28;
   posting-account=5Yl6pg0AAADpwOMWiAfWEILF9IbswBYm
Xref: g2news2.google.com rec.radio.amateur.antenna:21872
rec.radio.amateur.homebrew:7944 rec.radio.amateur.policy:55183
rec.radio.shortwave:59575 rec.radio.swap:10070
```

Slow Code wrote:

> I just start the threads, You people need to keep them going.

no we don't we and you and the ARS would better off if you stoped

```
From 5681662222208353543
X-Google-Thread: fcc6e,28966154715bb8e0
X-Google-Thread: fc2a5,5ea17aeb391094e4
X-Google-Thread: 10bf43,28966154715bb8e0
X-Google-Thread: 1109af,28966154715bb8e0
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
cyclone.austin.rr.com!news.rr.com!tornado.texas.rr.com.POSTED!53ab2750!not-for-
mail
From: "U-Know-Who" <no-one@nowhere.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
References: <ODu5h.5284$0r.5279@newsread1.news.pas.earthlink.net>
<ej6cua$2naq$1@news.ndhu.edu.tw> <ej8knc$kn5$1@news.hawaii.edu>
<1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net>
<5lO7h.283$_H5.256@tornado.texas.rr.com>
<u7s8h.1376$tM1.1345@newsread1.news.pas.earthlink.net>
<oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com>
<Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net>
Subject: Re: Group poll.
Lines: 69
X-Priority: 3
```

```
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <Jo89h.2462$Gk5.1576@tornado.texas.rr.com>
Date: Thu, 23 Nov 2006 03:16:57 GMT
NNTP-Posting-Host: 67.10.92.242
X-Complaints-To: abuse@rr.com
X-Trace: tornado.texas.rr.com 1164251817 67.10.92.242 (Wed, 22 Nov 2006 21:16:57
CST)
NNTP-Posting-Date: Wed, 22 Nov 2006 21:16:57 CST
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21874
rec.radio.amateur.homebrew:7945 rec.radio.amateur.policy:55201
rec.radio.swap:10075


"Slow Code" <my.mail@no.spam> wrote in message
news:Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net...
> Joe Bloe <abaslon@comcast.net> wrote in
> news:oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com:
>
>> On Tue, 21 Nov 2006 00:54:50 GMT, Slow Code <my.mail@no.spam> wrote:
>>
>>>"U-Know-Who" <no-one@nowhere.com> wrote in
>>>news:5lO7h.283$_H5.256@tornado.texas.rr.com:
>>>
>>>>
>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>> news:1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net...
>>>>> jeffreyh@Hawaii.Edu (Jeffrey Herman) wrote in
>>>>> news:ej8knc$kn5$1@news.hawaii.edu:
>>>>>
>>>>>> John Smith  <assemblywizard@gmail.com> wrote:
>>>>>>>Idiot, check your spelling, it's "group troll."
>>>>>>
>>>>>> Well, let's see if he ment "poll" or "troll":
>>>>>>
>>>>>>
>>>>>>         0  2  4  6  8  10
>>>>>>                        /
>>>>>>                       /
>>>>>>                      /
>>>>>>                     /
>>>>>>                    /
>>>>>>                   /
>>>>>>                  /
>>>>>>                 /
>>>>>>           POLL-O-METER
>>>>>
>>>>>
>>>>>
>>>>> So what appliances does everyone hope Santa brings them for Xmas?
```

```
>>>>>
>>>>> HF, VHF, UHF, KENWOOD, YAESU, ICOM, Cobra?
>>>>>
>>>>>
>>>>> I couldn't think of anything for myself, so I hope I just get a some
>>>>> componants and a new soldering iron for projects so I can keep moving
>>>>> forward in ham radio.
>>>>>
>>>>> SC
>>>>
>>>> And spell check for your PC. :-)
>>>
>>>
>>>Which one do you have?  I want Santa to bring me a different one. The
>>>one you have doesn't work.
>>>
>>>SC
>>
>>
>>   Clip and paste to "Word for Windows". . .  It's got the best spell
>> checker in the market.  Just leave it running in the backgrould and
>> call it up when you need to type out a letter or two.
>
>
> Thanks,  I'll pass that on to U-Know-Who, but he probably don't have word,
> just computer games.
>
> SC

I have Office Pro 2003




From -3332554257649681658
X-Google-Thread: fc2a5,5fc474ed0e865783
X-Google-Thread: 10c2ee,5fc474ed0e865783
X-Google-Thread: fc8b1,5fc474ed0e865783
X-Google-Attributes: gidfc2a5,gid10c2ee,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr27.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@sbcglobal.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.antiques.radio+phono,rec.radio.amateur.boatanchors
References: <mzL8h.17668$B31.6161@newssvr27.news.prodigy.net>
Subject: Re: GR 1650-B STX-107 ?
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
```

```
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <5y89h.18054$B31.16463@newssvr27.news.prodigy.net>
NNTP-Posting-Host: 70.143.50.241
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr27.news.prodigy.net 1164252417 ST000 70.143.50.241 (Wed, 22 Nov
2006 22:26:57 EST)
NNTP-Posting-Date: Wed, 22 Nov 2006 22:26:57 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
TSU[@I_A\S@ERQXXKZOX_RXAUSXB@DTMNHWB_EYLJZ]BGIELLNTC@AWZWDXZXQ[K\FFSKCVM@F_N_DOBWV
WG__LG@VVOIPLIGX\
\BU_B@\P\PFX\B[APHTWAHDCKJF^NHD[YJAZMCY_CWG[SX\Y]^KC\HSZRWSWKGAY_PC[BQ[BXAS\F\
\@DMTLFZFUE@\VL
Date: Thu, 23 Nov 2006 03:26:57 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7946
rec.antiques.radio+phono:38946 rec.radio.amateur.boatanchors:6429

Scratch the request as I got it from the GR guy.
tnx
Hank
"Henry Kolesnik" <kolesnik@sbcglobal.net> wrote in message
news:mzL8h.17668$B31.6161@newssvr27.news.prodigy.net...
> Anyone have a spare copy of the Student-Experimenter pamphlet GR Pub.
> STX-107 "The Universal Impedance Bridge"?  I'd like to get a copy, scan or
> the original.
> tnx
>
> --
>
> 73
> Hank WD5JFR
>




From 2633392542942839124
X-Google-Thread: fc2a5,806fa2d9ac6b8cd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ferrrite in linear tank coil ?
Date: Wed, 22 Nov 2006 19:36:41 -0800
Message-ID: <af5am214c4jgv6l0kc5eokba806sb3v813@4ax.com>
References: <S_p6h.5885$IR4.4647@newssvr25.news.prodigy.net>
<ejdisq$d6f$1@skeeter.ucdavis.edu>
<1163594390.633812.100730@f16g2000cwb.googlegroups.com>
<1163615358.097947.19460@m73g2000cwd.googlegroups.com>
<Lc%6h.18$z01.14@newsfe04.lga> <NJK7h.1745$_x3.1691@trndny02>
<q7s8m2ptnl7dad3a4llc4fd99n857ibicm@4ax.com> <8J59h.5539$IW2.4215@trndny03>
X-Newsreader: Forte Agent 4.1/32.1088
```

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node147-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1164240144 66.52.61.147 (22 Nov 2006 19:02:24 -0500)
Lines: 26
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.147
Path: g2news2.google.com!news3.google.com!news2.volia.net!news.kiev.sovam.com!Svitonline.COM!news-spur1.maxwell.syr.edu!news.maxwell.syr.edu!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:7947

ORIGINAL MESSAGE:

On Thu, 23 Nov 2006 00:13:56 GMT, "W3JDR" <joe@roccis.com> wrote:

>Bill,
>
>What you say is very true, but the context the clip was taken from had
>nothing to do with distortion, it was about Q and bandwidth.
>
>Joe
>W3JDR

------------ REPLY FOLLOWS ------------

If you go clear back to the original question you will see this:

" Many amps produced today use ferrite in the tank (usually toroids) for 160/80 meters..."

My response was that the toroids were almost certainly powdered iron, not ferrite. All the stuff about Q and bandwidth came much later. I stand by my original statement: powdered iron, not ferrite, and the reasons have EVERYTHING to do with distortion.

Bill, W6WRT

From -2983993201785163203
X-Google-Thread: fcc6e,21281c8b88ac790b
X-Google-Thread: fc2a5,21281c8b88ac790b
X-Google-Thread: 10bf43,21281c8b88ac790b
X-Google-Thread: 114aac,21281c8b88ac790b
X-Google-Thread: 1109af,21281c8b88ac790b
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!l12g2000cwl.googlegroups.com!not-for-mail
From: "The Poet" <tcsshortwave@yahoo.com>
Newsgroups:

rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.shortwave,rec.radio.swap
Subject: Re: I just start the threads, you people have to keep them going.
Date: 22 Nov 2006 23:27:42 -0800
Organization: http://groups.google.com
Lines: 21
Message-ID: <1164266862.849860.131870@l12g2000cwl.googlegroups.com>
References: <Xx59h.2180$ql2.36@newsread3.news.pas.earthlink.net>
NNTP-Posting-Host: 207.69.137.9
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1164266868 27838 127.0.0.1 (23 Nov 2006 07:27:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 23 Nov 2006 07:27:48 +0000 (UTC)
In-Reply-To: <Xx59h.2180$ql2.36@newsread3.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: l12g2000cwl.googlegroups.com; posting-host=207.69.137.9;
   posting-account=v5825A0AAACKuEV8AMQMrnFgFKg06OIf
Xref: g2news2.google.com rec.radio.amateur.antenna:21876
rec.radio.amateur.homebrew:7948 rec.radio.amateur.policy:55214
rec.radio.shortwave:59589 rec.radio.swap:10076

Slow Code wrote:
> I just start the threads, You people need to keep them going.
>
> But if I see a Pro-coder getting ganged up on by CW haters, I'll
> come back in and help kick some no-code ass.
>
> Sc

Well, looks like most sensible people have your posts blocked, other than myself and the uninitiated... so they never see your posts to reply.

Me, I still find your idiocy to be somewhat entertaining... but in time, I too shall tire of it and decide to "clean up my boards".

John Poet
"License? We don't need no stinkin' license"

From 2741057102871098426
X-Google-Thread: fc2a5,3ad0e5268057ef39
X-Google-Thread: 10cf58,3ad0e5268057ef39
X-Google-Thread: 10d85e,3ad0e5268057ef39
X-Google-Thread: fb1f8,3ad0e5268057ef39

```
X-Google-Thread: 108122,3ad0e5268057ef39
X-Google-Thread: 10c2ee,3ad0e5268057ef39
X-Google-Attributes:
gidfc2a5,gid10cf58,gid10d85e,gidfb1f8,gid108122,gid10c2ee,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 23 Nov 2006 02:17:23 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.audio.pro,rec.audio.opinion,rec.audio.tech,rec.radi
o.amateur.equipment,rec.antiques.radio+phono
References: <k968h.8441$Sw1.7887@newssvr13.news.prodigy.com>
<TqudnRNSmd_0IPzYnZ2dnUVZ_rSdnZ2d@comcast.com>
Subject: Re: HP 3582A ?
Date: Thu, 23 Nov 2006 02:17:28 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <M46dnSbmypKOxPjYnZ2dnUVZ_o2dnZ2d@comcast.com>
Lines: 18
NNTP-Posting-Host: 71.228.3.96
X-Trace: sv3-Tnsp5sQvTRY3IzIu+B/
J948YodlLZi6Bdzx5fzcZXxkis5mpKn8jEz7FsmMDmc00D00MHRsI4b4tLy7!EO36r/
K0Z6w2y8A6sCEVvbh6OSUcr/gBiBGtl7O/y0AodC+zX0r3zpa2KJwv3uUc07OF1BfbsR4c!LjIBIrXx/
XNc
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7949 rec.audio.pro:79617
rec.audio.opinion:55665 rec.audio.tech:15057 rec.radio.amateur.equipment:7192
rec.antiques.radio+phono:38966
```

Agilent has a PDF version of the 3582 manual on their website, as a free download.

Pete

"jack" <jdwalton@comcast.net> wrote in message
news:TqudnRNSmd_0IPzYnZ2dnUVZ_rSdnZ2d@comcast.com...

> One thing which you can do with these older analyzers is measure much
> higher
> voltages than possible on a sound card FFT, much lower frequencies -- they
> were used for vibration analysis as well as audio -- they are also very
> well
> isolated -- you can find a repro of the manual on EBay for ten bucks.
>

>
>

```
From 2014007331204070335
X-Google-Thread: fc2a5,3ad0e5268057ef39
X-Google-Thread: 10cf58,3ad0e5268057ef39
X-Google-Thread: 10d85e,3ad0e5268057ef39
X-Google-Thread: fb1f8,3ad0e5268057ef39
X-Google-Thread: 108122,3ad0e5268057ef39
X-Google-Thread: 10c2ee,3ad0e5268057ef39
X-Google-Attributes:
gidfc2a5,gid10cf58,gid10d85e,gidfb1f8,gid108122,gid10c2ee,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon06.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr27.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@sbcglobal.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.audio.pro,rec.audio.opinion,rec.audio.tech,rec.radi
o.amateur.equipment,rec.antiques.radio+phono
References: <k968h.8441$Sw1.7887@newssvr13.news.prodigy.com>
<TqudnRNSmd_0IPzYnZ2dnUVZ_rSdnZ2d@comcast.com>
<M46dnSbmypKOxPjYnZ2dnUVZ_o2dnZ2d@comcast.com>
Subject: Re: HP 3582A ?
Lines: 35
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <10h9h.18130$B31.2441@newssvr27.news.prodigy.net>
NNTP-Posting-Host: 70.143.50.241
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr27.news.prodigy.net 1164287101 ST000 70.143.50.241 (Thu, 23 Nov
2006 08:05:01 EST)
NNTP-Posting-Date: Thu, 23 Nov 2006 08:05:01 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
TSU[@I_AOXTMBP\Y]RHV_STDFZ\@@FXLM@TDOCQDJ@_@FNTCCNSKQFCY@TXDX_WHSVB]ZEJLSNY\^J[CUV
SA_QLFC^RQHUPH[P[NRWCCMLSNPOD_ESALHUK@TDFUZHBLJ\XGKL^NXA\EVHSP[D_C^B_^JCX^W]CHBAX]
POG@SSAZQ\LE[DCNMUPG_VSC@VJM
Date: Thu, 23 Nov 2006 13:05:01 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7950 rec.audio.pro:79631
rec.audio.opinion:55675 rec.audio.tech:15061 rec.radio.amateur.equipment:7193
rec.antiques.radio+phono:38973
```

Pete
I saw it and got it several days ago but I sure can't make the thing work
like a spectrrum analyzer. And I know how to use a HP 141T and its plugins!
I don't think there's anything wrong with it as it behaves per the manual
Any other help appreciated. Perhaps someone has used one for music study as

I want to.

--

73
Hank WD5JFR

"Pete KE9OA" <p.gianako@comcast.net> wrote in message
news:M46dnSbmypKOxPjYnZ2dnUVZ_o2dnZ2d@comcast.com...
> Agilent has a PDF version of the 3582 manual on their website, as a free
> download.
>
> Pete
>
> "jack" <jdwalton@comcast.net> wrote in message
> news:TqudnRNSmd_0IPzYnZ2dnUVZ_rSdnZ2d@comcast.com...
>> One thing which you can do with these older analyzers is measure much
>> higher
>> voltages than possible on a sound card FFT, much lower frequencies --
>> they
>> were used for vibration analysis as well as audio -- they are also very
>> well
>> isolated -- you can find a repro of the manual on EBay for ten bucks.
>>
>>
>>
>
>

```
From -6295318437044940855
X-Google-Thread: fc2a5,8c4cd170bcd99453,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-
mail
From: muldawer@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: 5 Radio Frequency Interference Ferrite (RFI) Reducers for Round Cables
Date: 23 Nov 2006 10:09:53 -0800
Organization: http://groups.google.com
Lines: 29
Message-ID: <1164305393.592161.319420@k70g2000cwa.googlegroups.com>
NNTP-Posting-Host: 70.110.19.98
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1164305397 22427 127.0.0.1 (23 Nov 2006 18:09:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 23 Nov 2006 18:09:57 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1) Gecko/
```

20061010 Firefox/2.0,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=70.110.19.98;
   posting-account=5muBfA0AAAAIboRFUE1VOY_MP77Wnzit
Xref: g2news2.google.com rec.radio.amateur.homebrew:7951

5 Radio Frequency Interference Ferrite (RFI) Reducers for Round Cables

Cut down on RFI (radio frequency interference) with this effective and easy to use clamp-type split ferrite choke core. Simply snap it over any coax cable, AC or audio cord.

Features/Specifications: Split ferrite RFI reducer for round cables
Clamp-type fitting
Uses high-performance ferrites (Nickel-Zinc) that reduce high frequency noise
Split ferrite assembly are fully enclosed in a Nylon case
Can be installed before or after product setup and assembly

Package Includes: RFI reducer for round cables

Product Requirements:
Suitable round cable

RFI filters can be pretty important when cables are run through big bundles of other cables or near strong power supplies. Put this RFI reducer on your round coax, AC, or audio cord to improve the signal quality. This Radio Frequency Interference Reducer is made with high-performance ferrites (Nickel-Zinc) to ensure a better filter process. It is small, only 1.2 inches long and snaps on in an instant. Here is a picture of the product in use:
http://64.70.175.67/images/FS/RFI/RFI2.jpg

$10.00 (shipping inc.) I accept Paypal!

From -273019893713260812
X-Google-Thread: fcc6e,21281c8b88ac790b
X-Google-Thread: fc2a5,21281c8b88ac790b
X-Google-Thread: 10bf43,21281c8b88ac790b
X-Google-Thread: 114aac,21281c8b88ac790b
X-Google-Thread: 1109af,21281c8b88ac790b
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newshub.sdsu.edu!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.shortwave,rec.radio.swap
Subject: crapthon goes on

```
Date: Thu, 23 Nov 2006 13:16:39 -0500
Message-ID: <lapbm2tf5gitrg1cqfg2rg1m3bo16dnba3@4ax.com>
References: <Xx59h.2180$ql2.36@newsread3.news.pas.earthlink.net>
<1164266862.849860.131870@l12g2000cwl.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 26
NNTP-Posting-Date: 23 Nov 2006 17:21:55 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21888
rec.radio.amateur.homebrew:7952 rec.radio.amateur.policy:55292
rec.radio.shortwave:59640 rec.radio.swap:10088

On 22 Nov 2006 23:27:42 -0800, "The Poet" <tcsshortwave@yahoo.com>
wrote:

>
>Slow Code wrote:
>> I just start the threads, You people need to keep them going.
>>
>> But if I see a Pro-coder getting ganged up on by CW haters,  I'll
>> come back in and help kick some no-code ass.
>>
>> Sc
>
>
>Well, looks like most sensible people have your posts blocked, other
>than myself and the uninitiated... so they never see your posts to
>reply.

I don't believe in blinders that is how the jews of europe deid
>
>Me, I still find your idiocy to be somewhat entertaining... but in
>time, I too shall tire of it and decide to "clean up my boards".
>
>
>John Poet
>"License?  We don't need no stinkin' license"
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From 3217029345499666859
X-Google-Thread: fc2a5,3ad0e5268057ef39
X-Google-Thread: 10cf58,3ad0e5268057ef39
X-Google-Thread: 10d85e,3ad0e5268057ef39
X-Google-Thread: fb1f8,3ad0e5268057ef39
X-Google-Thread: 108122,3ad0e5268057ef39
```

X-Google-Thread: 10c2ee,3ad0e5268057ef39
X-Google-Attributes: gidfc2a5,gid10cf58,gid10d85e,gidfb1f8,gid108122,gid10c2ee,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 23 Nov 2006 15:15:22 -0600
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew,rec.audio.pro,rec.audio.opinion,rec.audio.tech,rec.radio.amateur.equipment,rec.antiques.radio+phono
References: <k968h.8441$Sw1.7887@newssvr13.news.prodigy.com> <TqudnRNSmd_0IPzYnZ2dnUVZ_rSdnZ2d@comcast.com> <M46dnSbmypKOxPjYnZ2dnUVZ_o2dnZ2d@comcast.com> <10h9h.18130$B31.2441@newssvr27.news.prodigy.net>
Subject: Re: HP 3582A ?
Date: Thu, 23 Nov 2006 15:15:20 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <YYCdnXiPw5D3kvvYnZ2dnUVZ_tqdnZ2d@comcast.com>
Lines: 48
NNTP-Posting-Host: 71.228.3.96
X-Trace: sv3-QbuH5k7uskzSk6I1IvegQkYRqs0D0qm5uY+N85ZRkhoDFdL17N95ghr70/aTAws+4MuuOTzBeMRoAJI!XNen5RsWmSJQHAIHWFklSdrS7KvVBkpWmW7MphU3Cu329k7EdEy1iF7fpDkflpeHyd9voKJ+XfBB!gqzX67cEmUYO
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7953 rec.audio.pro:79660 rec.audio.opinion:55721 rec.audio.tech:15066 rec.radio.amateur.equipment:7205 rec.antiques.radio+phono:39008

Hi Hank,

This unit should operate like any other spectrum analyzer. Make sure that you have it for recursive operation. This button is just above the "ARM" button.
It took me a little while to figure mine out too.

Pete

"Henry Kolesnik" <kolesnik@sbcglobal.net> wrote in message news:10h9h.18130$B31.2441@newssvr27.news.prodigy.net...
> Pete
> I saw it and got it several days ago but I sure can't make the thing work

```
> like a spectrrum analyzer.  And I know how to use a HP 141T and its
> plugins! I don't think there's anything wrong with it as it behaves per
> the manual Any other help appreciated.  Perhaps someone has used one for
> music study as I want to.
>
> --
>
> 73
> Hank WD5JFR
>
> "Pete KE9OA" <p.gianako@comcast.net> wrote in message
> news:M46dnSbmypKOxPjYnZ2dnUVZ_o2dnZ2d@comcast.com...
>> Agilent has a PDF version of the 3582 manual on their website, as a free
>> download.
>>
>> Pete
>>
>> "jack" <jdwalton@comcast.net> wrote in message
>> news:TqudnRNSmd_0IPzYnZ2dnUVZ_rSdnZ2d@comcast.com...
>>> One thing which you can do with these older analyzers is measure much
>>> higher
>>> voltages than possible on a sound card FFT, much lower frequencies --
>>> they
>>> were used for vibration analysis as well as audio -- they are also very
>>> well
>>> isolated -- you can find a repro of the manual on EBay for ten bucks.
>>>
>>>
>>>
>>
>>
>
>




From 2820496839737192476
X-Google-Thread: fcc6e,765f9536506008bd,start
X-Google-Thread: fc8b1,765f9536506008bd,start
X-Google-Thread: f7653,765f9536506008bd,start
X-Google-Thread: 11480d,765f9536506008bd,start
X-Google-Thread: 108122,765f9536506008bd,start
X-Google-Thread: fc2a5,765f9536506008bd,start
X-Google-Thread: 10bf43,765f9536506008bd,start
X-Google-Thread: 10e8ad,765f9536506008bd,start
X-Google-Attributes:
gidfcc6e,gidfc8b1,gidf7653,gid11480d,gid108122,gidfc2a5,gid10bf43,gid10e8ad,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.nventure.com!
news.nventure.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 23 Nov 2006 17:02:42 -0600
```

```
From: Martin Johnson <ac7lk@aol.com>
Subject: FYI: Found this Radio site
Newsgroups:
rec.radio.amateur,rec.radio.amateur.antenna,rec.radio.amateur.boatanchors,rec.radi
o.amateur.digital,rec.radio.amateur.digital.misc,rec.radio.amateur.dx,rec.radio.am
ateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.packet,rec.radio.amat
eur.policy,rec.radio.amateur.space,rec.radio.amateur.spacerec.radio.scanner
Followup-To: clem.hamradio
Reply-To: ac7lk@aol.com
Date: Thu, 23 Nov 2006 15:02:22 -0800
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <3oCdnQLTALoPtfvYnZ2dnUVZ_oSdnZ2d@nventure.com>
Lines: 6
NNTP-Posting-Host: 131.191.21.31
X-Trace: sv3-K44dKgPHwD2lRaaMeuoRNBLl+ob8wfQDokwW/
zUlWH+BZUOgYVr5Y31xhZ4TLOiKcHHbnT2DnzB5mYP!
WTd2NJtUbRB4rbhwOm1IhIjAxe6BhutB7e1vI5tgU7tLszu7HqeXgm+zRJw0kSLSWEX4tspZNfwY!
GabhBRu+Yl768BD8OePFUavskLRBajA=
X-Complaints-To: abuse@nventure.com
X-DMCA-Complaints-To: abuse@nventure.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.antenna:21897
rec.radio.amateur.boatanchors:6442 rec.radio.amateur.digital.misc:431
rec.radio.amateur.dx:2630 rec.radio.amateur.equipment:7210
rec.radio.amateur.homebrew:7954 rec.radio.amateur.policy:55337
rec.radio.amateur.space:490


intersting amateur mode :

http://www.kc7zwg.org

is this illegal?



From -4191083345930063384
X-Google-Thread: 10aaeb,3f43106733090dbd,start
X-Google-Thread: fcc6e,3f43106733090dbd,start
X-Google-Thread: 11480d,3f43106733090dbd,start
X-Google-Thread: 108122,3f43106733090dbd,start
X-Google-Thread: fc2a5,3f43106733090dbd,start
X-Google-Thread: f5845,3f43106733090dbd,start
X-Google-Attributes:
gid10aaeb,gidfcc6e,gid11480d,gid108122,gidfc2a5,gidf5845,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.nventure.com!
```

news.nventure.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 23 Nov 2006 17:05:36 -0600
From: Martin Johnson <ac7lk@aol.com>
Subject: OOPS FYI: UPDATE !
Newsgroups:
alabama.birmingham.radio.amateur,clem.hamradio,rec.radio.amateur,rec.radio.amateur.antenna,rec.radio.amateur.digital,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.swap,rec.rado.amateur.equipment,tamu.hamradio.bulletins,tnn.radio.amateur
Followup-To: alabama.birmingham.radio.amateur
Reply-To: ac7lk@aol.com
Date: Thu, 23 Nov 2006 15:05:14 -0800
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <qIOdnZdU4v_dtPvYnZ2dnUVZ_uCdnZ2d@nventure.com>
Lines: 9
NNTP-Posting-Host: 131.191.21.31
X-Trace: sv3-tVukPw+M02vMbkwd4iSgMO64mbumDitAgG4oxzGEMc1l0+nCxrf85UxAD3q2rdiNK0nK0EH54IEgLfD!vKYfJqyLFO3tgv7tY8lf7T3Ctlcj2MkBCwBHo0Nr1wwaV8yws2dfLF6/rAkUsEiER1nT1FY08YbI!JcKlNG06sn4goUiFDqsqrE5AYqO05ek=
X-Complaints-To: abuse@nventure.com
X-DMCA-Complaints-To: abuse@nventure.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com alabama.birmingham.radio.amateur:119 rec.radio.amateur.antenna:21898 rec.radio.amateur.dx:2631 rec.radio.amateur.equipment:7211 rec.radio.amateur.homebrew:7955 tnn.radio.amateur:11

sorry, i checked the wrong link
here is the real one:

never seen this done before.....
what is it anyway???

http://www.kc7zwg.org

is this illegal amateur radio activity ?

From 2792889043623765090
X-Google-Thread: fcc6e,28966154715bb8e0
X-Google-Thread: fc2a5,5ea17aeb391094e4
X-Google-Thread: 10bf43,28966154715bb8e0
X-Google-Thread: 1109af,28966154715bb8e0
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!

```
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.nventure.com!
news.nventure.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 23 Nov 2006 17:10:50 -0600
From: Martin Johnson <ac7lk@aol.com>
Subject: Re: Group poll.
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Followup-To: rec.radio.amateur.antenna
Reply-To: ac7lk@aol.com
Date: Thu, 23 Nov 2006 15:10:31 -0800
References: <ODu5h.5284$0r.5279@newsread1.news.pas.earthlink.net>
<ej6cua$2naq$1@news.ndhu.edu.tw> <ej8knc$kn5$1@news.hawaii.edu>
<1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net>
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <qIOdnZZU4v_nt_vYnZ2dnUVZ_uCdnZ2d@nventure.com>
Lines: 42
NNTP-Posting-Host: 131.191.21.31
X-Trace: sv3-oDiv+YsDiN/
JC6aFdHipbNrWkXh0OUEEowuJnTd1SiK7FKvSY7to3RycVnvIwIFuAPGSppcEMJpufTT!
JXqB7QKvcWc2KXQtMEa8WXBcL3SKxFIf3Q9Hy1IFivUl25g9bQKWm5TMRrXmBjL479w93Z8txBDk!FdZ/
WPQhhru5nFOxfS/tOrFGM55yFQw=
X-Complaints-To: abuse@nventure.com
X-DMCA-Complaints-To: abuse@nventure.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.antenna:21899
rec.radio.amateur.homebrew:7956 rec.radio.amateur.policy:55341
rec.radio.swap:10094

MOTOROLA ! > of course....
http://www.kc7zwg.org
like that one......




Slow Code wrote:

> jeffreyh@Hawaii.Edu (Jeffrey Herman) wrote in
> news:ej8knc$kn5$1@news.hawaii.edu:
>
>> John Smith  <assemblywizard@gmail.com> wrote:
>>>Idiot, check your spelling, it's "group troll."
>>
>> Well, let's see if he ment "poll" or "troll":
>>
>>
```

```
>>         0  2  4  6  8  10
>>                        /
>>                       /
>>                      /
>>                     /
>>                    /
>>                   /
>>                  /
>>                 /
>>           POLL-O-METER
>
>
>
> So what appliances does everyone hope Santa brings them for Xmas?
>
> HF, VHF, UHF, KENWOOD, YAESU, ICOM, Cobra?
>
>
> I couldn't think of anything for myself, so I hope I just get a some
> componants and a new soldering iron for projects so I can keep moving
> forward in ham radio.
>
> SC



From 8500940394076062638
X-Google-Thread: fcc6e,28966154715bb8e0
X-Google-Thread: fc2a5,5ea17aeb391094e4
X-Google-Thread: 10bf43,28966154715bb8e0
X-Google-Thread: 1109af,28966154715bb8e0
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: Group poll.
From: Slow Code <my.mail@no.spam>
References: <ODu5h.5284$0r.5279@newsread1.news.pas.earthlink.net>
<ej6cua$2naq$1@news.ndhu.edu.tw> <ej8knc$kn5$1@news.hawaii.edu>
<1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net>
<5lO7h.283$_H5.256@tornado.texas.rr.com>
<u7s8h.1376$tM1.1345@newsread1.news.pas.earthlink.net>
<oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com>
<Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net>
<Jo89h.2462$Gk5.1576@tornado.texas.rr.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 75
Message-ID: <E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net>
```

```
Date: Fri, 24 Nov 2006 01:37:40 GMT
NNTP-Posting-Host: 4.228.228.40
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1164332260 4.228.228.40 (Thu, 23 Nov
2006 17:37:40 PST)
NNTP-Posting-Date: Thu, 23 Nov 2006 17:37:40 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:21904
rec.radio.amateur.homebrew:7957 rec.radio.amateur.policy:55360
rec.radio.swap:10097

"U-Know-Who" <no-one@nowhere.com> wrote in
news:Jo89h.2462$Gk5.1576@tornado.texas.rr.com:

>
> "Slow Code" <my.mail@no.spam> wrote in message
> news:Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net...
>> Joe Bloe <abaslon@comcast.net> wrote in
>> news:oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com:
>>
>>> On Tue, 21 Nov 2006 00:54:50 GMT, Slow Code <my.mail@no.spam> wrote:
>>>
>>>>"U-Know-Who" <no-one@nowhere.com> wrote in
>>>>news:5lO7h.283$_H5.256@tornado.texas.rr.com:
>>>>
>>>>>
>>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>>> news:1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net...
>>>>>> jeffreyh@Hawaii.Edu (Jeffrey Herman) wrote in
>>>>>> news:ej8knc$kn5$1@news.hawaii.edu:
>>>>>>
>>>>>>> John Smith  <assemblywizard@gmail.com> wrote:
>>>>>>>>Idiot, check your spelling, it's "group troll."
>>>>>>>
>>>>>>> Well, let's see if he ment "poll" or "troll":
>>>>>>>
>>>>>>>
>>>>>>>         0  2  4  6  8  10
>>>>>>>                        /
>>>>>>>                       /
>>>>>>>                      /
>>>>>>>                     /
>>>>>>>                    /
>>>>>>>                   /
>>>>>>>                  /
>>>>>>>                 /
>>>>>>>           POLL-O-METER
>>>>>>
>>>>>>
>>>>>>
>>>>>> So what appliances does everyone hope Santa brings them for Xmas?
>>>>>>
>>>>>> HF, VHF, UHF, KENWOOD, YAESU, ICOM, Cobra?
>>>>>>
```

```
>>>>>>
>>>>>> I couldn't think of anything for myself, so I hope I just get a
>>>>>> some componants and a new soldering iron for projects so I can keep
>>>>>> moving forward in ham radio.
>>>>>>
>>>>>> SC
>>>>>
>>>>> And spell check for your PC. :-)
>>>>
>>>>
>>>>Which one do you have?  I want Santa to bring me a different one. The
>>>>one you have doesn't work.
>>>>
>>>>SC
>>>
>>>
>>>   Clip and paste to "Word for Windows". . .  It's got the best spell
>>> checker in the market.  Just leave it running in the backgrould and
>>> call it up when you need to type out a letter or two.
>>
>>
>> Thanks,  I'll pass that on to U-Know-Who, but he probably don't have
>> word, just computer games.
>>
>> SC
>
> I have Office Pro 2003


WOW

SC



From -7138312479183228404
X-Google-Thread: fcc6e,21281c8b88ac790b
X-Google-Thread: fc2a5,21281c8b88ac790b
X-Google-Thread: 10bf43,21281c8b88ac790b
X-Google-Thread: 114aac,21281c8b88ac790b
X-Google-Thread: 1109af,21281c8b88ac790b
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.shortwave,rec.radio.swap
Subject: Re: I just start the threads, you people have to keep them going.
From: Slow Code <my.mail@no.spam>
References: <Xx59h.2180$ql2.36@newsread3.news.pas.earthlink.net>
<1164266862.849860.131870@l12g2000cwl.googlegroups.com>
Organization: None
```

```
User-Agent: Xnews/5.04.25
Lines: 30
Message-ID: <O1s9h.2647$ql2.395@newsread3.news.pas.earthlink.net>
Date: Fri, 24 Nov 2006 01:37:50 GMT
NNTP-Posting-Host: 4.228.228.40
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1164332270 4.228.228.40 (Thu, 23 Nov
2006 17:37:50 PST)
NNTP-Posting-Date: Thu, 23 Nov 2006 17:37:50 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:21906
rec.radio.amateur.homebrew:7958 rec.radio.amateur.policy:55363
rec.radio.shortwave:59679 rec.radio.swap:10100

"The Poet" <tcsshortwave@yahoo.com> wrote in
news:1164266862.849860.131870@l12g2000cwl.googlegroups.com:

>
> Slow Code wrote:
>> I just start the threads, You people need to keep them going.
>>
>> But if I see a Pro-coder getting ganged up on by CW haters,  I'll
>> come back in and help kick some no-code ass.
>>
>> Sc
>
>
> Well, looks like most sensible people have your posts blocked, other
> than myself and the uninitiated... so they never see your posts to
> reply.
>
> Me, I still find your idiocy to be somewhat entertaining... but in
> time, I too shall tire of it and decide to "clean up my boards".
>
>
> John Poet


A lot of liberals and retards have me killfiled already.  I won't truely
be happy until I'm in your killfile too, then I think we'll have about all
of the liberals and retards covered and I won't have to worry about seeing
retarded follow-ups.

SC



From 6377827147640136338
X-Google-Thread: fcc6e,28966154715bb8e0
X-Google-Thread: fc2a5,5ea17aeb391094e4
X-Google-Thread: 10bf43,28966154715bb8e0
X-Google-Thread: 1109af,28966154715bb8e0
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
```

```
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone.austin.rr.com!news.rr.com!
tornado.texas.rr.com.POSTED!53ab2750!not-for-mail
From: "U-Know-Who" <no-one@nowhere.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
References: <ODu5h.5284$0r.5279@newsread1.news.pas.earthlink.net>
<ej6cua$2naq$1@news.ndhu.edu.tw> <ej8knc$kn5$1@news.hawaii.edu>
<1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net>
<5lO7h.283$_H5.256@tornado.texas.rr.com>
<u7s8h.1376$tM1.1345@newsread1.news.pas.earthlink.net>
<oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com>
<Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net>
<Jo89h.2462$Gk5.1576@tornado.texas.rr.com>
<E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net>
Subject: Re: Group poll.
Lines: 83
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <Svs9h.2203$_H5.295@tornado.texas.rr.com>
Date: Fri, 24 Nov 2006 02:09:54 GMT
NNTP-Posting-Host: 67.10.92.242
X-Complaints-To: abuse@rr.com
X-Trace: tornado.texas.rr.com 1164334194 67.10.92.242 (Thu, 23 Nov 2006 20:09:54
CST)
NNTP-Posting-Date: Thu, 23 Nov 2006 20:09:54 CST
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21908
rec.radio.amateur.homebrew:7959 rec.radio.amateur.policy:55373
rec.radio.swap:10105


"Slow Code" <my.mail@no.spam> wrote in message
news:E1s9h.2642$ql2.1992@newsread3.news.pas.earthlink.net...
> "U-Know-Who" <no-one@nowhere.com> wrote in
> news:Jo89h.2462$Gk5.1576@tornado.texas.rr.com:
>
>>
>> "Slow Code" <my.mail@no.spam> wrote in message
>> news:Vx59h.2178$ql2.1579@newsread3.news.pas.earthlink.net...
>>> Joe Bloe <abaslon@comcast.net> wrote in
>>> news:oei7m2hhbvm46q3qmkkfl4k7ui4tdtqei9@4ax.com:
>>>
>>>> On Tue, 21 Nov 2006 00:54:50 GMT, Slow Code <my.mail@no.spam> wrote:
>>>>
>>>>>"U-Know-Who" <no-one@nowhere.com> wrote in
>>>>>news:5lO7h.283$_H5.256@tornado.texas.rr.com:
>>>>>
>>>>>>
>>>>>> "Slow Code" <my.mail@no.spam> wrote in message
```

```
>>>>>> news:1wN7h.626$sf5.622@newsread4.news.pas.earthlink.net...
>>>>>>> jeffreyh@Hawaii.Edu (Jeffrey Herman) wrote in
>>>>>>> news:ej8knc$kn5$1@news.hawaii.edu:
>>>>>>>
>>>>>>>> John Smith  <assemblywizard@gmail.com> wrote:
>>>>>>>>>Idiot, check your spelling, it's "group troll."
>>>>>>>>
>>>>>>>> Well, let's see if he ment "poll" or "troll":
>>>>>>>>
>>>>>>>>
>>>>>>>>         0  2  4  6  8  10
>>>>>>>>                        /
>>>>>>>>                       /
>>>>>>>>                      /
>>>>>>>>                     /
>>>>>>>>                    /
>>>>>>>>                   /
>>>>>>>>                  /
>>>>>>>>                 /
>>>>>>>>           POLL-O-METER
>>>>>>>
>>>>>>>
>>>>>>>
>>>>>>> So what appliances does everyone hope Santa brings them for Xmas?
>>>>>>>
>>>>>>> HF, VHF, UHF, KENWOOD, YAESU, ICOM, Cobra?
>>>>>>>
>>>>>>>
>>>>>>> I couldn't think of anything for myself, so I hope I just get a
>>>>>>> some componants and a new soldering iron for projects so I can keep
>>>>>>> moving forward in ham radio.
>>>>>>>
>>>>>>> SC
>>>>>>
>>>>>> And spell check for your PC. :-)
>>>>>
>>>>>
>>>>>Which one do you have?  I want Santa to bring me a different one. The
>>>>>one you have doesn't work.
>>>>>
>>>>>SC
>>>>
>>>>
>>>>   Clip and paste to "Word for Windows". . .  It's got the best spell
>>>> checker in the market.  Just leave it running in the backgroulд and
>>>> call it up when you need to type out a letter or two.
>>>
>>>
>>> Thanks,  I'll pass that on to U-Know-Who, but he probably don't have
>>> word, just computer games.
>>>
>>> SC
>>
```

```
>> I have Office Pro 2003
>
>
> WOW
>
> SC

I ran your posts through it. It said to please excuse the idiot in Colorado
who can't afford a high-speed connection.




From 3184563465857612488
X-Google-Thread: fcc6e,21281c8b88ac790b
X-Google-Thread: fc2a5,21281c8b88ac790b
X-Google-Thread: 10bf43,21281c8b88ac790b
X-Google-Thread: 114aac,21281c8b88ac790b
X-Google-Thread: 1109af,21281c8b88ac790b
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!nntpserver.com!zeus.nntpserver.com!
hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.shortwave,rec.radio.swap
Subject: crapthon goes on
Date: Thu, 23 Nov 2006 21:16:28 -0500
Message-ID: <5flcm294aom3297ibmkvf1cjabeucgmr6c@4ax.com>
References: <Xx59h.2180$ql2.36@newsread3.news.pas.earthlink.net>
<1164266862.849860.131870@l12g2000cwl.googlegroups.com>
<O1s9h.2647$ql2.395@newsread3.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 35
NNTP-Posting-Date: 24 Nov 2006 01:21:46 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21911
rec.radio.amateur.homebrew:7960 rec.radio.amateur.policy:55377
rec.radio.shortwave:59686 rec.radio.swap:10108

On Fri, 24 Nov 2006 01:37:50 GMT, Slow Code <my.mail@no.spam> wrote:

>"The Poet" <tcsshortwave@yahoo.com> wrote in
>news:1164266862.849860.131870@l12g2000cwl.googlegroups.com:
>
>>
>> Slow Code wrote:
>>> I just start the threads, You people need to keep them going.
```

```
>>>
>>> But if I see a Pro-coder getting ganged up on by CW haters,  I'll
>>> come back in and help kick some no-code ass.
>>>
>>> Sc
>>
>>
>> Well, looks like most sensible people have your posts blocked, other
>> than myself and the uninitiated... so they never see your posts to
>> reply.
>>
>> Me, I still find your idiocy to be somewhat entertaining... but in
>> time, I too shall tire of it and decide to "clean up my boards".
>>
>>
>> John Poet
>
>
>A lot of liberals and retards have me killfiled already.  I won't truely
>be happy until I'm in your killfile too, then I think we'll have about all
>of the liberals and retards covered and I won't have to worry about seeing
>retarded follow-ups.

get help old man
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From -4269276561721040617
X-Google-Thread: fc2a5,c5388b65a0efe28a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: NEW HOBBY TYPE SWAP AND SHOP and its really unique
Date: Thu, 23 Nov 2006 19:31:00 -0800
Message-ID: <gnpcm291p22nj9f6a6omom03ldn0pqh8md@4ax.com>
References: <1164337263.917064.133170@l12g2000cwl.googlegroups.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node63-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1164326203 66.52.61.63 (23 Nov 2006 18:56:43 -0500)
Lines: 18
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.63
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
```

nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news.alt.net!
newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:7962

ORIGINAL MESSAGE:

On 23 Nov 2006 19:01:03 -0800, "ve3ab" <ve3ab@personainternet.com>
wrote:

>Hello: Earl Andrews VE3AB here. I have created a fledgling Swap and
>Shop Web Site for hobby people such as myself and your selves. A
>typical Ad is only 1 dollar per month!

------------ REPLY FOLLOWS ------------

A typical ad on rec.radio.swap is free! As is www.eham.net and
www.qth.com

It's not a bad idea, but I'd suggest you aim toward another market.
Ham radio ain't it.

Bill, W6WRT

From 4571622897206558448
X-Google-Thread: fc2a5,121e6ecb9ad212ef
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How connect two EPP ports to "talk" between them?
Date: 10 Nov 2006 23:20:29 -0600
Organization: Kansas State University
Lines: 23
Message-ID: <ej3mit$b83@unix1.cc.ksu.edu>
References: <eir7bq$7ja@unix1.cc.ksu.edu> <12l2c1ipno3436d@corp.supernews.com>
NNTP-Posting-Host: unix1.cc.ksu.edu
X-Trace: cnn.cns.ksu.edu 1163222433 19470 129.130.12.3 (11 Nov 2006 05:20:33 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Sat, 11 Nov 2006 05:20:33 +0000 (UTC)
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7811

>Just out of curiosity, is there any reason you can't either buy what you're
>asking for off-the-shelf in the form of, e.g., LapLink or else use an
>interface that's better suited to the problem to begin with (such as Ethernet
>or even those USB "networking" cables)?

An even better solution would be to cobble the destination drive
into the source-drive's PC, do a big XCOPY, and uncobble it.
Unfortunately, in my situation the drives are NOT compatible, either.

Neither do the computers I'm working with have Ethernet or USB.

And there's almost a times-100 ratio in speed; to copy a 1 gig
disk via laplink will take about 24 HOURS vs about 17 MINUTES via
the parallel port.

Besides, there's always the fun of doing it, and that much time
difference should even "pay" for the programming effort.

--
--Myron A. Calhoun.
Five boxes preserve our freedoms: soap, ballot, witness, jury, and cartridge
NRA Life Member and Rifle, Pistol, & Home Firearm Safety Certified Instructor
Certified Instructor for the Kansas Concealed-Carry Handgun license

From 3313025217880414081
X-Google-Thread: fc2a5,121e6ecb9ad212ef
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "john graesser" <graesser@tca.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How connect two EPP ports to "talk" between them?
Date: Fri, 10 Nov 2006 23:52:31 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12laolj1g7kb9f7@corp.supernews.com>
References: <eir7bq$7ja@unix1.cc.ksu.edu> <12l2c1ipno3436d@corp.supernews.com> <ej3mit$b83@unix1.cc.ksu.edu>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
X-Complaints-To: abuse@supernews.com
Lines: 40
Xref: g2news2.google.com rec.radio.amateur.homebrew:7812

<mcalhoun@ksu.edu> wrote in message news:ej3mit$b83@unix1.cc.ksu.edu...
> >Just out of curiosity, is there any reason you can't either buy what
you're
> >asking for off-the-shelf in the form of, e.g., LapLink or else use an
> >interface that's better suited to the problem to begin with (such as
Ethernet
> >or even those USB "networking" cables)?
>
> An even better solution would be to cobble the destination drive
> into the source-drive's PC, do a big XCOPY, and uncobble it.
> Unfortunately, in my situation the drives are NOT compatible, either.
>
> Neither do the computers I'm working with have Ethernet or USB.

>
> And there's almost a times-100 ratio in speed; to copy a 1 gig
> disk via laplink will take about 24 HOURS vs about 17 MINUTES via
> the parallel port.
>
> Besides, there's always the fun of doing it, and that much time
> difference should even "pay" for the programming effort.

At least one version of laplink that I remember used the printer port for connecting.

Along a similar vein, there was talk in comp.os.cpm a couple of weeks ago about a utility that allowed a dos machine to function as a disk drive for a cp/m computer via the printer port, perhaps if you look that one up, you can write a util that allows your machine to do the same. At least it should help get you started.

In my opinion writing the utils to do it will take more than 24 hours, if you start the copy now it might just be done before you finish writing the utils.

Cross opsys transfers are done here the slow way with some form of xmodem or zmodem at 19.2k, it may take a while but it works just fine while I am asleep.

```
From 4694719604273716373
X-Google-Thread: fc2a5,28a3144a154337bc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-
mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Class C amps and saturation (again)
Date: 11 Nov 2006 00:36:27 -0800
Organization: http://groups.google.com
Lines: 38
Message-ID: <1163234186.961467.270640@h48g2000cwc.googlegroups.com>
References: <1162665254.828375.182050@k70g2000cwa.googlegroups.com>
   <1163154261.259437.38890@e3g2000cwe.googlegroups.com>
   <1163180400.420402.25060@h54g2000cwb.googlegroups.com>
   <12l9hvf1jp3d36b@corp.supernews.com>
NNTP-Posting-Host: 71.112.170.245
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1163234191 24971 127.0.0.1 (11 Nov 2006 08:36:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 11 Nov 2006 08:36:31 +0000 (UTC)
In-Reply-To: <12l9hvf1jp3d36b@corp.supernews.com>
User-Agent: G2/1.0
```

X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.5) Gecko/20060127 Netscape/8.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h48g2000cwc.googlegroups.com; posting-host=71.112.170.245;
posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7813

Roy Lewallen wrote:

> K7ITM wrote:
>
> > . . .
> > In Class C, the active device is hard-on for a relatively small fraction of the cycle. It always drives the output to about two times the supply voltage, peak to peak, if it's properly designed for low dissipation in the active device. . .
>
> I've designed saturating RF amplifiers of a few watts output in which the device is on for well over half the cycle, and which have an efficiency of around 90%. The peak-peak collector voltage is nearly 40 volts when run from a 12 volt supply. The high efficiency implies relatively low dissipation in the active device. But perhaps this falls outside some definitions of class C.
>
> Roy Lewallen, W7EL

A flyback switching RF amplifier, Roy? ;-) One can also use active devices that pull hard to ground and to a rail, delivering a square wave output at high efficiency. That square wave can then be filtered with a network that presents a high impedance for harmonics and passes the fundamental, and achieve very high efficiency. A square wave is nice because the even harmonics are theoretically zero, and in practice can be much lower than the odd, so the filter doesn't have to have super-steep cutoff. I guess that would be some variation on class D. It's actually the way the HP8640B generates its signal: divide-by-2 stages from the master oscillator, followed by filters. I suppose it's really best to describe the operation of any amplifier in some detail, and not just rely on "Class A" or the like.

Cheers,
Tom

Cheers,
Tom

From 6302162725485895470
X-Google-Thread: 10bf43,8f0a65310a772163
X-Google-Thread: fc2a5,8f0a65310a772163
X-Google-Thread: 114aac,283666946a01996c
X-Google-Thread: 1109af,8f0a65310a772163
X-Google-Attributes: gid10bf43,gidfc2a5,gid114aac,gid1109af,public

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-mail
From: sidwellfriends@aol.com
Newsgroups: rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave,rec.radio.swap
Subject: Re: Radio Shack store robbed
Date: 11 Nov 2006 03:01:59 -0800
Organization: http://groups.google.com
Lines: 26
Message-ID: <1163242919.789203.58630@b28g2000cwb.googlegroups.com>
References: <18671-4554BFEE-81@storefull-3253.bay.webtv.net>
<Y795h.5473$ig4.4880@newsread2.news.pas.earthlink.net>
NNTP-Posting-Host: 64.12.117.13
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1163242925 23800 127.0.0.1 (11 Nov 2006 11:02:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 11 Nov 2006 11:02:05 +0000 (UTC)
In-Reply-To: <Y795h.5473$ig4.4880@newsread2.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows 98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.1.1 [uScMs f p eN:t cCMp s]), HTTP/1.1 Turboweb [mtc-ta113 8.4.1], HTTP/1.1 cache-mtc-ae09.proxy.aol.com[400C750D] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=64.12.117.13;
posting-account=xtYtRw0AAABS32CerUbGcrfPOE8WkwmL
Xref: g2news2.google.com rec.radio.amateur.policy:53780 rec.radio.amateur.homebrew:7814 rec.radio.shortwave:58428 rec.radio.swap:9658

Slow Code wrote:

> cuhulin@webtv.net wrote in
> news:18671-4554BFEE-81@storefull-3253.bay.webtv.net:
>
> > It happened this morning at the Radio Shack store at Highway 18 and
> > Greenway Drive here in Jackson,Mississippi,according to WLBT mid day tv
> > news.That store is in the strip mall next to the Wal Mart store where I
> > do my food shopping,a mile and a half South of my doggy's couch.Two guys
> > walked into the store and one of them had a pistol.They demanded money
> > and then they got away.They will be caught sooner or later.
> > cuhulin
>
>
> It's good the robbers didn't go in and ask for technical assistance, they
> would have come out empty handed.
>
> SC

Radio Shack - "You've got questions , we've got blank stares". It

seems, as if there is always one idiot clerk and one pushy asshole -
our store, we have this red-headed asshole, who likes to talk-down,
and sell the most expensive of what you want. I am so glad, that the HD
Radio Cartel chose this loser retail chain, as its Big HD Radio Rollout
!

From 8554048580171783205
X-Google-Thread: fc2a5,a67a9fcdb82fcbb6
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!newsfeed.icl.net!
newsfeed.fjserv.net!newsfeed.freenet.de!feeder.news-service.com!news2.euro.net!
213.132.189.2.MISMATCH!multikabel.net!feed20.multikabel.net!surfnet.nl!surfnet.nl!
feeder.news.heanet.ie!news.indigo.ie!not-for-mail
From: "Eamon Skelton" <Xnospam@oceanfree.net>
Subject: Re: how much can dummy load carbon resistors stand
Newsgroups: rec.radio.amateur.homebrew
References: <1163184647.845070.101830@h48g2000cwc.googlegroups.com>
User-Agent: pan 0.117 (We'll fly and we'll fall and we'll burn)
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Lines: 24
Message-ID: <xnl5h.15905$j7.333534@news.indigo.ie>
Date: Sat, 11 Nov 2006 14:46:53 GMT
NNTP-Posting-Host: 86.41.149.177
X-Complaints-To: abuse@eircom.net
X-Trace: news.indigo.ie 1163256413 86.41.149.177 (Sat, 11 Nov 2006 14:46:53 GMT)
NNTP-Posting-Date: Sat, 11 Nov 2006 14:46:53 GMT
Organization: Eircom.Net http://www.eircom.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:7815

On Fri, 10 Nov 2006 10:50:48 -0800, n4aeq wrote:

> I need to build a portable load to carry on the roof or tower to check
> transmission lines, I know for
> intermitten use a resistor will stand alot more then its rated for so
> does anyone know the factor
> for intermitten use?

There is no formula for calculating how much you
can exceed the maximum ratings of a component.

I have found that most resistors can withstand several
times their maximum rating for brief periods. A lot
more if you submerge them in oil.

You don't want to do any high power tests while you
are up the tower or on the roof. High power = high
voltage = a long fall if you get a shock!

73, Ed. EI9GQ.

--
Remove 'X' to reply by e-mail
Linux 2.6.17

From -1200656148552780557
X-Google-Thread: fc2a5,121e6ecb9ad212ef
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc07.POSTED!f4af025b!not-for-mail
From: "Norm Mann" <folder0735@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <eir7bq$7ja@unix1.cc.ksu.edu> <12l2c1ipno3436d@corp.supernews.com>
<ej3mit$b83@unix1.cc.ksu.edu> <12laolj1g7kb9f7@corp.supernews.com>
Subject: Re: How connect two EPP ports to "talk" between them?
Lines: 39
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <zul5h.134$Jd3.95@trnddc07>
Date: Sat, 11 Nov 2006 14:54:23 GMT
NNTP-Posting-Host: 71.102.210.121
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc07 1163256863 71.102.210.121 (Sat, 11 Nov 2006 09:54:23 EST)
NNTP-Posting-Date: Sat, 11 Nov 2006 09:54:23 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:7816

"john graesser" <graesser@tca.net> wrote in message
news:12laolj1g7kb9f7@corp.supernews.com...
>
> <mcalhoun@ksu.edu> wrote in message news:ej3mit$b83@unix1.cc.ksu.edu...
>> >Just out of curiosity, is there any reason you can't either buy what
> you're
>> >asking for off-the-shelf in the form of, e.g., LapLink or else use an
>> >interface that's better suited to the problem to begin with (such as
> Ethernet
>> >or even those USB "networking" cables)?
>>
>> An even better solution would be to cobble the destination drive
>> into the source-drive's PC, do a big XCOPY, and uncobble it.
>> Unfortunately, in my situation the drives are NOT compatible, either.
>>
>> Neither do the computers I'm working with have Ethernet or USB.
>>
>> And there's almost a times-100 ratio in speed; to copy a 1 gig

>> disk via laplink will take about 24 HOURS vs about 17 MINUTES via
>> the parallel port.
>>
>> Besides, there's always the fun of doing it, and that much time
>> difference should even "pay" for the programming effort.
>
> At least one version of laplink that I remember used the printer port for
> connecting.

I got into this a little late, but I'm also assuming in this case that there are no standard, common media (CD, DVD, etc.) either. Somewhere around here I still have a file transfer program which came with a null modem cable, but also gave instructions on how to build a parallel port cable. IIRC, the data lines were 1-to-1, but some control lines were switched. Would this data be helpful or do you already have this information?

-NM

From 3401786335844596918
X-Google-Thread: 10bf43,8f0a65310a772163
X-Google-Thread: fc2a5,8f0a65310a772163
X-Google-Thread: 114aac,283666946a01996c
X-Google-Thread: 1109af,8f0a65310a772163
X-Google-Attributes: gid10bf43,gidfc2a5,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!64.59.134.4.MISMATCH!pd7cy1no!pd7cy2no!shaw.ca!pd7urf3no.POSTED!53ab2750!not-for-mail
X-Trace-PostClient-IP: 24.78.218.211
From: "Howard Kowall" <hkowall@shaw.ca>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave,rec.radio.swap
References: <18671-4554BFEE-81@storefull-3253.bay.webtv.net>
<Y795h.5473$ig4.4880@newsread2.news.pas.earthlink.net>
Subject: Re: Radio Shack store robbed
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <vkm5h.291241$5R2.259049@pd7urf3no>
Date: Sat, 11 Nov 2006 15:51:55 GMT
NNTP-Posting-Host: 24.66.94.143
X-Complaints-To: abuse@shaw.ca
X-Trace: pd7urf3no 1163260315 24.66.94.143 (Sat, 11 Nov 2006 08:51:55 MST)
NNTP-Posting-Date: Sat, 11 Nov 2006 08:51:55 MST
Organization: Shaw Residential Internet

```
Xref: g2news2.google.com rec.radio.amateur.policy:53798
rec.radio.amateur.homebrew:7817 rec.radio.shortwave:58438 rec.radio.swap:9665

you got questions we got stupid answers
that is there  saying

"Slow Code" <my.mail@no.spam> wrote in message
news:Y795h.5473$ig4.4880@newsread2.news.pas.earthlink.net...
> cuhulin@webtv.net wrote in
> news:18671-4554BFEE-81@storefull-3253.bay.webtv.net:
>
>> It happened this morning at the Radio Shack store at Highway 18 and
>> Greenway Drive here in Jackson,Mississippi,according to WLBT mid day tv
>> news.That store is in the strip mall next to the Wal Mart store where I
>> do my food shopping,a mile and a half South of my doggy's couch.Two guys
>> walked into the store and one of them had a pistol.They demanded money
>> and then they got away.They will be caught sooner or later.
>> cuhulin
>
>
> It's good the robbers didn't go in and ask for technical assistance, they
> would have come out empty handed.
>
> SC




From 235222420060164713
X-Google-Thread: fc2a5,bbca15782af3129c,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
Message-ID: <4555F1CD.5030809@invalid.invalid>
From: Doug Smith W9WI <w9wi@invalid.invalid>
Reply-To:  w9wi@invalid.invalid
Organization: Ham Radio W9WI
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.0.1) Gecko/20020830
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Labeling mobile antennas?
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 18
Date: Sat, 11 Nov 2006 15:52:47 GMT
NNTP-Posting-Host: 4.152.99.143
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1163260367 4.152.99.143 (Sat, 11 Nov
2006 07:52:47 PST)
NNTP-Posting-Date: Sat, 11 Nov 2006 07:52:47 PST
```

```
Xref: g2news2.google.com rec.radio.amateur.homebrew:7818
```

I operate mobile with a number of Hamstick antennas - fiberglass rods ~1/2" (1.3cm) diameter with stainless steel whips at the end. A separate antenna is necessary for each band.

The antennas come with paper tags at the bottom indicating which band they're for. These are surprisingly durable, but they aren't perfect. The 20 meter antenna has lost its tag - luckily right now I know that the untagged antenna is 20 but if another one loses its tag I'll be down to comparing lengths of loading coils...

What methods can folks suggest for labeling these antennas? Remember that, while in use, it'll be exposed to the elements on the rear bumper of a car.

--
Doug Smith W9WI
Pleasant View (Nashville), TN EM66
http://www.w9wi.com

```
From 3973824536310923446
X-Google-Thread: fc2a5,a67a9fcdb82fcbb6
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews6.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: how much can dummy load carbon resistors stand
References: <1163184647.845070.101830@h48g2000cwc.googlegroups.com>
In-Reply-To: <1163184647.845070.101830@h48g2000cwc.googlegroups.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 23
Message-ID: <9Am5h.20507$lY5.1692@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcbolglgjmaeeaicpikodkhaojdbanldhaeocl
piameimchegejpfbnmcaclojlobnbgbgjhmnnmpgicogmanmlcfofkijhjcpnmjongdjiejjbilnml
NNTP-Posting-Date: Sat, 11 Nov 2006 11:08:37 EST
Organization: BellSouth Internet Group
Date: Sat, 11 Nov 2006 11:08:42 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:7819
```

n4aeq wrote:

> I need to build a portable load to carry on the roof or tower to check
> transmission lines, I know for
> intermitten use a resistor will stand alot more then its rated for so
> does anyone know the factor
> for intermitten use?
>

You can connect several resistors in a series-parallel combo to get
higher wattage while keeping the 50 ohm resistance. There is a limit as
 a non-resistive complex impedance will grow larger as you add more
resistors due to stray inductance and capacitance. House the resistors
in a small can and fill the can with mineral oil. This will increase
the wattage rating. In fact resistors submerged in oil will handle
10-20 times their wattage rating for short periods. Paint the outside
of the can black to increase radiative cooling.
(Ever see a Heath Cantenna?)

Hint: get 10 120 ohm 2 watt resistors, and connect them in
series-parallel. (IE: 5 sets of 2 series connected resistors in
parallel). This will give you a 48 ohm 20 watt resistor. With the
resistors heat sinked in oil they will handle 200-400 watts for short
periods.

From 3967668087376875378
X-Google-Thread: 10bf43,8f0a65310a772163
X-Google-Thread: fc2a5,8f0a65310a772163
X-Google-Thread: 114aac,283666946a01996c
X-Google-Thread: 1109af,8f0a65310a772163
X-Google-Attributes: gid10bf43,gidfc2a5,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!news.glorb.com!
bigfeed2.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!
news.bellsouth.net!bignews6.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave,rec.radio.
swap
Subject: Re: Radio Shack store robbed
References: <18671-4554BFEE-81@storefull-3253.bay.webtv.net>
<Y795h.5473$ig4.4880@newsread2.news.pas.earthlink.net>
<vkm5h.291241$5R2.259049@pd7urf3no>
In-Reply-To: <vkm5h.291241$5R2.259049@pd7urf3no>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 5
Message-ID: <yCm5h.20509$lY5.1053@bignews6.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:

```
ofjmidbaofeaohdodbdpiflmbcekedmfhojhikkbagflhcbookjmdmibdackilkpjejakdamiepadkdacl
piameimchegejpfbnmcaclojlobnbgbgjhmnnmpgicogmajjijmagahcahddplcmibnkoacmafknha
NNTP-Posting-Date: Sat, 11 Nov 2006 11:11:10 EST
Organization: BellSouth Internet Group
Date: Sat, 11 Nov 2006 11:11:15 -0500
Xref: g2news2.google.com rec.radio.amateur.policy:53799
rec.radio.amateur.homebrew:7820 rec.radio.shortwave:58439 rec.radio.swap:9666

Howard Kowall wrote:
> you got questions we got stupid answers
> that is there  saying
>
More like we got Bull Shit.



From 8841424293058209028
X-Google-Thread: 10bf43,8f0a65310a772163
X-Google-Thread: fc2a5,8f0a65310a772163
X-Google-Thread: 114aac,283666946a01996c
X-Google-Thread: 1109af,8f0a65310a772163
X-Google-Attributes: gid10bf43,gidfc2a5,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!nntpserver.com!zeus.nntpserver.com!
hydra.nntpserver.com!not-for-mail
From: "an old freind" <Mark@kb9rqz.aprs>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave,rec.radio.
swap
References: <18671-4554BFEE-81@storefull-3253.bay.webtv.net>
<Y795h.5473$ig4.4880@newsread2.news.pas.earthlink.net>
<vkm5h.291241$5R2.259049@pd7urf3no> <yCm5h.20509$lY5.1053@bignews6.bellsouth.net>
Subject: Re: Radio Shack store robbed
Date: Sat, 11 Nov 2006 11:53:25 -0500
Organization: punce.org
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Lines: 11
Message-ID: <4555f32a$0$21167$88260bb3@free.teranews.com>
NNTP-Posting-Date: 11 Nov 2006 15:58:34 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:53804
rec.radio.amateur.homebrew:7821 rec.radio.shortwave:58444 rec.radio.swap:9667


"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:yCm5h.20509$lY5.1053@bignews6.bellsouth.net...
> Howard Kowall wrote:
>> you got questions we got stupid answers
>> that is there  saying
```

>>
> More like we got Bull Shit.
with teh punce gotcha do u hav anyting cognet two say?

--
Posted via a free Usenet account from http://www.teranews.com

From 1615492193515899439
X-Google-Thread: 10bf43,8f0a65310a772163
X-Google-Thread: fc2a5,8f0a65310a772163
X-Google-Thread: 114aac,283666946a01996c
X-Google-Thread: 1109af,8f0a65310a772163
X-Google-Attributes: gid10bf43,gidfc2a5,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!elnk-atl-nf1!newsfeed.earthlink.net!bigfeed2.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews7.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave,rec.radio.
swap
Subject: Re: Radio Shack store robbed
References: <18671-4554BFEE-81@storefull-3253.bay.webtv.net>
<Y795h.5473$ig4.4880@newsread2.news.pas.earthlink.net>
<vkm5h.291241$5R2.259049@pd7urf3no> <yCm5h.20509$lY5.1053@bignews6.bellsouth.net>
<4555f32a$0$21167$88260bb3@free.teranews.com>
In-Reply-To: <4555f32a$0$21167$88260bb3@free.teranews.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 13
Message-ID: <dvq5h.18294$GE1.16382@bignews7.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
enggpaojkliedbjjdbdpiflmbcekedmfhojhikkbagflhcbobojekheklahpojgjajkdhpinmfmmmidlcl
piameimchegejpfbnmcaclojlobnbgbgjhmnnmpgicogmacoadpfhiifenkkoikcnngdniofceagjf
NNTP-Posting-Date: Sat, 11 Nov 2006 15:36:25 EST
Organization: BellSouth Internet Group
Date: Sat, 11 Nov 2006 15:36:31 -0500
Xref: g2news2.google.com rec.radio.amateur.policy:53816
rec.radio.amateur.homebrew:7822 rec.radio.shortwave:58457 rec.radio.swap:9669

an old freind wrote:
> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
> news:yCm5h.20509$lY5.1053@bignews6.bellsouth.net...

>> Howard Kowall wrote:
>>> you got questions we got stupid answers
>>> that is there saying
>>>
>> More like we got Bull Shit.
> with teh punce gotcha do u hav anyting cognet two say?
>
>
>
Take the marbles out of your mouth troll.

From -4085469077559060232
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!
bigfeed2.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!
news.bellsouth.net!bignews7.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<1163017911.266486.104440@m7g2000cwm.googlegroups.com>
<12l6nbch852b545@corp.supernews.com>
In-Reply-To: <12l6nbch852b545@corp.supernews.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 30
Message-ID: <BCq5h.18297$GE1.1902@bignews7.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
enggpaojkliedbjjdbdpiflmbcekedmfhojhikkbagflhcboffbfclopkieoiajedkhaojdbanldhaeocl
piameimchegejpfbnmcaclojlobnbgbgjhmnnmpgicogmajigeldjkkgifodanpgjknimebpiablpc
NNTP-Posting-Date: Sat, 11 Nov 2006 15:44:17 EST
Organization: BellSouth Internet Group
Date: Sat, 11 Nov 2006 15:44:22 -0500
Xref: g2news2.google.com rec.radio.amateur.antenna:21336
rec.radio.amateur.homebrew:7823 rec.radio.amateur.policy:53821 rec.radio.swap:9670

Joel Kolstad wrote:
> "larya" <larya@rogers.com> wrote in message
> news:1163017911.266486.104440@m7g2000cwm.googlegroups.com...
>> Second... I also think you will find that the fcc, and in my country

>> the IC, are deeply regretting the conversion of 11 meters to 'cb'.
>
> I hope not. The FCC providing unlicensed spectrum for the masses was one of
> the smartest thing they ever did! Yes, it leads to all sorts of horrible
> operating practices, but CB and -- more contemporarily -- FRS/GMRS and WiFi
> had provided *huge* benefits for people (and many millions of dollars in
> equipment sales) nationwide. I'd hate to live in a country where there's no
> such thing as a license-free $20 pair of FRS-type walkie talkies or $20 WiFi
> cards for high-speed Internet access.
>
>> Virtually all of our bad radio operating procedures, of all radio
>> services, can all be traced back to the bad operating technique found
>> in the 11 meter cb band....
>
> I'd say they can be traced back to human nature. People were rowdy and
> "uncouth" in, say, taverns for thousands of years before CB came along.
>
> ---Joel
>
>
At the time "CB" in the 27mhz region made sense because UHF equipment
was too expensive to build for the masses. That's no longer true. The
FCC should eliminate the 27 mhz CB service before the start of the next
sunspot cycle and force everyone there to move to UHF. One of CB's
biggest problems was interference from 'skip' (DX), and it is illegal to
 work DX stations anyway.

```
From -2730236116734746879
X-Google-Thread: 10bf43,8f0a65310a772163
X-Google-Thread: fc2a5,8f0a65310a772163
X-Google-Thread: 114aac,283666946a01996c
X-Google-Thread: 1109af,8f0a65310a772163
X-Google-Attributes: gid10bf43,gidfc2a5,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: "an old freind" <Mark@kb9rqz.aprs>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave,rec.radio.
swap
References: <18671-4554BFEE-81@storefull-3253.bay.webtv.net>
<Y795h.5473$ig4.4880@newsread2.news.pas.earthlink.net>
<vkm5h.291241$5R2.259049@pd7urf3no> <yCm5h.20509$lY5.1053@bignews6.bellsouth.net>
<4555f32a$0$21167$88260bb3@free.teranews.com>
<dvq5h.18294$GE1.16382@bignews7.bellsouth.net>
Subject: Re: Radio Shack store robbed
Date: Sat, 11 Nov 2006 15:46:25 -0500
Organization: punce.org
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
```

```
X-RFC2646: Format=Flowed; Original
Lines: 20
Message-ID: <455629c6$0$21108$88260bb3@free.teranews.com>
NNTP-Posting-Date: 11 Nov 2006 19:51:34 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:53823
rec.radio.amateur.homebrew:7824 rec.radio.shortwave:58459 rec.radio.swap:9671


"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:dvq5h.18294$GE1.16382@bignews7.bellsouth.net...
> an old freind wrote:
>> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
>> news:yCm5h.20509$lY5.1053@bignews6.bellsouth.net...
>>> Howard Kowall wrote:
>>>> you got questions we got stupid answers
>>>> that is there  saying
>>>>
>>> More like we got Bull Shit.
>> with teh punce gotcha do u hav anyting cognet two say?
>>
>>
>>
> Take the marbles out of your mouth troll.
stfu child raping forger
http://kb9rqz.blogspot.com/



--
Posted via a free Usenet account from http://www.teranews.com



From 6054872014386346211
X-Google-Thread: 10bf43,8f0a65310a772163
X-Google-Thread: fc2a5,8f0a65310a772163
X-Google-Thread: 114aac,283666946a01996c
X-Google-Thread: 1109af,8f0a65310a772163
X-Google-Attributes: gid10bf43,gidfc2a5,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave,rec.radio.
swap
Subject: stop crapin in in SC
Date: Sat, 11 Nov 2006 16:01:19 -0500
Message-ID: <kgecl2pl6mgqpd6qp7os7qeotag8h5k27e@4ax.com>
References: <18671-4554BFEE-81@storefull-3253.bay.webtv.net>
<Y795h.5473$ig4.4880@newsread2.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
```

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 5
NNTP-Posting-Date: 11 Nov 2006 20:06:24 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:53845
rec.radio.amateur.homebrew:7825 rec.radio.shortwave:58465 rec.radio.swap:9675

On Sat, 11 Nov 2006 00:51:04 GMT, Slow Code <my.mail@no.spam> wrote:

>
stop crapin in in SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -7453221262990738642
X-Google-Thread: 10bf43,8f0a65310a772163
X-Google-Thread: fc2a5,8f0a65310a772163
X-Google-Thread: 114aac,283666946a01996c
X-Google-Thread: 1109af,8f0a65310a772163
X-Google-Attributes: gid10bf43,gidfc2a5,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!nntpserver.com!zeus.nntpserver.com!
hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave,rec.radio.swap
Subject: id theft remains a crime
Date: Sat, 11 Nov 2006 16:12:09 -0500
Message-ID: <t4fcl21mfrsfm3422fhp9cd33m5j0o3ino@4ax.com>
References: <18671-4554BFEE-81@storefull-3253.bay.webtv.net>
<Y795h.5473$ig4.4880@newsread2.news.pas.earthlink.net>
<vkm5h.291241$5R2.259049@pd7urf3no> <yCm5h.20509$lY5.1053@bignews6.bellsouth.net>
<4555f32a$0$21167$88260bb3@free.teranews.com>
<dvq5h.18294$GE1.16382@bignews7.bellsouth.net>
<455629c6$0$21108$88260bb3@free.teranews.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 7
NNTP-Posting-Date: 11 Nov 2006 20:17:19 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:53855
rec.radio.amateur.homebrew:7826 rec.radio.shortwave:58470 rec.radio.swap:9679

```
On Sat, 11 Nov 2006 15:46:25 -0500, "an old freind" <Mark@kb9rqz.aprs>
wrote:

>
>
id theft remains a crime
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From -4322302596121174754
X-Google-Thread: fc2a5,bbca15782af3129c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-
sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Larry Gagnon <lggagnon@fakeuniserve.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Labeling mobile antennas?
Date: Sat, 11 Nov 2006 14:50:20 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-Id: <pan.2006.11.11.22.50.20.989311@fakeuniserve.com>
X-Trace-PostClient-IP: 216.210.110.195
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table)
References: <4555F1CD.5030809@invalid.invalid>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
X-Complaints-To: abuse@supernews.com
Lines: 4
Xref: g2news2.google.com rec.radio.amateur.homebrew:7827

Use a minidrill with an engraving bit on it and engrave "20M" into the
side of the stainless base??

Larry VE7EA


From -3888125790370729560
X-Google-Thread: fc2a5,bbca15782af3129c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe03.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4555F1CD.5030809@invalid.invalid>
Subject: Re: Labeling mobile antennas?
```

```
Lines: 30
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <PYt5h.582$_f3.243@newsfe03.lga>
X-Trace:
pgpdkimbbbabbbpekannfilpcpbbolnmgaiheojidifhiebnnicfceledepkikoolhlefpnpglhfdcnhnk
phglcgebminjdpejpkaddlfoepjfjnkbpecdhkojmhchaffjnlkijlapclbdfj
NNTP-Posting-Date: Sat, 11 Nov 2006 17:32:47 MST
Date: Sat, 11 Nov 2006 19:25:12 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:7828
```

I have to break down the antenna to fit in my trunk. I mark the whip with colored vinyl tape at the point it adjusts into the mast, and put a piece of the same colored tape on the mast. Red=40, Blue=30, Yellow=20. I use Hustlers for 75/80 since the Hamstick doesn't cover 80, and the 75 meter resonator carries red tape so I can quickly tell it from 80.

..

"Doug Smith W9WI" <w9wi@invalid.invalid> wrote in message
news:4555F1CD.5030809@invalid.invalid...

>I operate mobile with a number of Hamstick antennas - fiberglass rods ~1/2" (1.3cm) diameter with stainless steel whips at the end. A separate antenna is necessary for each band.
>
> The antennas come with paper tags at the bottom indicating which band they're for. These are surprisingly durable, but they aren't perfect. The 20 meter antenna has lost its tag - luckily right now I know that the untagged antenna is 20 but if another one loses its tag I'll be down to comparing lengths of loading coils...
>
> What methods can folks suggest for labeling these antennas? Remember that, while in use, it'll be exposed to the elements on the rear bumper of a car.
> --
> Doug Smith W9WI
> Pleasant View (Nashville), TN EM66
> http://www.w9wi.com
>

```
From -1239381502847207405
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!elnk-atl-nf1!
newsfeed.earthlink.net!uns-out.usenetserver.com!news.usenetserver.com!
pc02.usenetserver.com!VERMONTEL.NET-a2kHrUvQQWlmc!not-for-mail
From: X-rated Vermonter <k1xvnospam@arrl.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
Date: Sat, 11 Nov 2006 20:38:46 -0500
Reply-To: k1xvnospam@arrl.net
Message-ID: <2jucl2ph03e2elmaag3huj4t2nlusl7t5p@4ax.com>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
<s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
<lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
<XSQ3h.3079$l25.2652@newsread4.news.pas.earthlink.net>
<9nqvk290folpkapot0pqm4ks68dummbn27@4ax.com>
<1C94h.3634$L6.3344@newsread3.news.pas.earthlink.net>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Organization: VTel Internet NNTP
Cache-Post-Path: r2d2.vermontel.net!unknown@vtelinet-209-134-42-117.vermontel.net
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
X-Complaints-To: abuse@usenetserver.com
Lines: 24
X-Trace: 5cec345567adc7de7c94b18081
Xref: g2news2.google.com rec.radio.amateur.antenna:21351
rec.radio.amateur.homebrew:7830 rec.radio.amateur.policy:53890
rec.radio.scanner:7704 rec.radio.swap:9691
```

On Wed, 08 Nov 2006 00:34:05 GMT, Slow Code <my.mail@no.spam> wrote:

```
>
>Code is just one part of it.  Here's my four step plan that will keep
>ham radio from becoming like CB:
>
>
>Step 1: No more automatic renewals. Individuals must retest and
>          pass all elements required for their license class.
>
>Step 2: The passing score for written exams needs to be raised to 85%.
>
>Step 3: Code elements should be 13 wpm for General, and 20 wpm for Extra.
>
>Step 4: Make the no-code license one year non-renewable.
+++++++++
```

Your plan will eliminate QRM. There will be nobody left with a
license.

Are you an undercover agent for some commercial group that is looking
to take over ham band spectrum for commercial uses?

You are a caricature of a crusty old fool.

```
From 3130309135916473670
X-Google-Thread: fc2a5,6c11df2d97b64ca4,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i42g2000cwa.googlegroups.com!not-for-mail
From: "wackyvorlon" <wackyvorlon@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Racal-Dana F64 Schematic?
Date: 11 Nov 2006 18:20:16 -0800
Organization: http://groups.google.com
Lines: 7
Message-ID: <1163298016.140982.315560@i42g2000cwa.googlegroups.com>
NNTP-Posting-Host: 24.141.204.36
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1163298021 29215 127.0.0.1 (12 Nov 2006 02:20:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 12 Nov 2006 02:20:21 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1) Gecko/20061010 Firefox/2.0,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i42g2000cwa.googlegroups.com; posting-host=24.141.204.36;
   posting-account=15zMjA0AAADf967FF4hNz2XFLYmmLwDg
Xref: g2news2.google.com rec.radio.amateur.homebrew:7831
```

I have a Racal-Dana F64 function generator that I'm trying to repair
for a friend. It has the ability to function as a frequency counter
for an external input, this appears to work without difficulty. I have
not, however, been able to make it generate a signal. When switched to
input, the frequency display reads zero. Does anyone know where I can
a schematic for this machine? Any help is greatly appreciated.

```
From 7704552014828186245
X-Google-Thread: fc2a5,bbca15782af3129c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: budgie <me@privacy.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Labeling mobile antennas?
Date: Sun, 12 Nov 2006 10:48:35 +0800
Message-ID: <hq2dl2psd2nnri1d4arnibi5tqpmv4alh0@4ax.com>
References: <4555F1CD.5030809@invalid.invalid>
```

X-Newsreader: Forte Free Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: dsl-58-7-218-122.wa.westnet.com.au
X-Trace: quokka.wn.com.au 1163299668 58.7.218.122 (12 Nov 2006 10:47:48 +0800)
Lines: 18
X-Complaints-To: abuse@westnet.com.au
Path: g2news2.google.com!news3.google.com!news.glorb.com!quokka.wn.com.au!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:7832

On Sat, 11 Nov 2006 15:52:47 GMT, Doug Smith W9WI <w9wi@invalid.invalid> wrote:

>I operate mobile with a number of Hamstick antennas - fiberglass rods
>~1/2" (1.3cm) diameter with stainless steel whips at the end. A
>separate antenna is necessary for each band.
>
>The antennas come with paper tags at the bottom indicating which band
>they're for. These are surprisingly durable, but they aren't perfect.
>The 20 meter antenna has lost its tag - luckily right now I know that
>the untagged antenna is 20 but if another one loses its tag I'll be down
>to comparing lengths of loading coils...
>
>What methods can folks suggest for labeling these antennas? Remember
>that, while in use, it'll be exposed to the elements on the rear bumper
>of a car.

Heatshrink tubing. Either colour coded, or clear with a printed/coded label inside.

From 3413802426562245
X-Google-Thread: fc2a5,bbca15782af3129c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-online.de!newsfeed.arcor.de!newsfeed.freenet.de!feeder.news-service.com!feeder2.cambrium.nl!feeder3.cambrium.nl!feed.tweaknews.nl!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-08!sn-ams!sn-feed-ams-03!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Labeling mobile antennas?
Date: Sun, 12 Nov 2006 03:09:38 -0000
Organization: Home for Obscure Mythical Beings
Message-ID: <12ld43i9hefm9c5@corp.supernews.com>
References: <4555F1CD.5030809@invalid.invalid>
X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
X-Complaints-To: abuse@supernews.com
Lines: 16

Xref: g2news2.google.com rec.radio.amateur.homebrew:7833

In article <4555F1CD.5030809@invalid.invalid>,
Doug Smith W9WI <w9wi@invalid.invalid> wrote:

>What methods can folks suggest for labeling these antennas? Remember
>that, while in use, it'll be exposed to the elements on the rear bumper
>of a car.

How about labelling the antenna or base with a self-adhesive label
(e.g Brother P-Touch), and then covering it with some clear
heat-shrink tubing?

--
Dave Platt <dplatt@radagast.org>   AE6EO
Hosting the Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From -8857843661237860738
X-Google-Thread: 10bf43,8f0a65310a772163
X-Google-Thread: fc2a5,8f0a65310a772163
X-Google-Thread: 114aac,283666946a01996c
X-Google-Thread: 1109af,8f0a65310a772163
X-Google-Attributes: gid10bf43,gidfc2a5,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!208.49.83.146!uns-out.usenetserver.com!news.usenetserver.com!pc03.usenetserver.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
From: "amdx" <amdx@knology.net>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave,rec.radio.swap
References: <18671-4554BFEE-81@storefull-3253.bay.webtv.net>
<Y795h.5473$ig4.4880@newsread2.news.pas.earthlink.net>
<vkm5h.291241$5R2.259049@pd7urf3no> <yCm5h.20509$lY5.1053@bignews6.bellsouth.net>
Subject: Re: Radio Shack store robbed
Date: Sat, 11 Nov 2006 21:16:07 -0600
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <a6c6e$455691f6$45011502$25364@KNOLOGY.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 116
X-Trace: a6c6e455691f6e0a4b0a725364
Xref: g2news2.google.com rec.radio.amateur.policy:53892
rec.radio.amateur.homebrew:7834 rec.radio.shortwave:58495 rec.radio.swap:9693

"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:yCm5h.20509$lY5.1053@bignews6.bellsouth.net...

> Howard Kowall wrote:
>> you got questions we got stupid answers
>> that is there saying
>>
> More like we got Bull Shit.

Here's my latest story;

I sent the following letter to;
customerservice@radioshack.com

Hi,
Do you have a service manual (schematic) for Model # 15-1937
Accurian HomePlug Digital Audio Receiver/Amplifier?

Thank you,
Mike

And I received;

Dear Valued Customer, Thank you for contacting RadioShack.com Order Center. Your questions and concerns are important to us and we are dedicated to assisting you in anyway possible. In order to assist you in the most efficient and timely manner, all email correspondence must be submitted through our online email form. To locate our online email form, we ask that you visit our Help Desk at RadioShack.com Order Center/helpdesk and choose Contact Us under Online Store Information. Then, choose the subject that will address your question and send us an email through our online email form. We apologize for any inconvenience this may cause you. Sincerely,
RadioShack.com Order Center

Original Message Follows: ------------------------

Hi,
Do you have a service manual (schematic) for Model # 15-1937
Accurian HomePlug Digital Audio Receiver/Amplifier?

Thank you,
Mike

So I located the online email form and I sent,

Hi,
Do you have a service manual (schematic) for Model # 15-1937
Accurian HomePlug Digital Audio Receiver/Amplifier?

Thank you,
Mike

and I received;

Dear Valued Customer,

Thank you for contacting RadioShack.com Order Center.

Your questions and concerns are important to us and we are dedicated to assisting you in anyway possible. In order to assist you in the most efficient and timely manner, all email correspondence must be submitted through our online email form. To locate our online email form, we ask that you visit our Help Desk at RadioShack.com Order Center/helpdesk and choose Contact Us under Online Store Information. Then, choose the subject that will address your question and send us an email through our online email form.

We apologize for any inconvenience this may cause you.

Sincerely,

RadioShack.com Order Center

Original Message Follows:

To: Customerservice@radioshack.com

From: @knology.net

Subject: I need help finding a product

Order Number:

Name: Mike

Phone Number:
Wrote: Hi,
Do you have a service manual (schematic) for Model # 15-1937
Accurian HomePlug Digital Audio Receiver/Amplifier?

Thank you,
Mike Knowlton

So I think I did something wrong, I check your email and copy
RadioShack.com Order Center/helpdesk
from your email, add www. and of course, there is no such page.
Ok, so I try just www.radioshack.com and look for Order Center/helpdesk
I don't find Order Center/helpdesk anywhere on the page.

After much searching I gave up.
I located an 800 # and called it, After pushing all the right buttons, hey
guess what? I get a busy signal!
The next call, I'm very quiet, I don't say anything to all the prompts,
finally a live person answered and I get switched to someone that
helps me. You don't carry the repair part I needed, but I did get an answer,
it did take two emails and about 45 minutes, but I got an answer.

Your Valued Customer,
Mike Knowlton

From -1823401415197072398
X-Google-Thread: fc2a5,a67a9fcdb82fcbb6
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: how much can dummy load carbon resistors stand
Date: Sat, 11 Nov 2006 19:35:22 -0800
Message-ID: <di5dl2tkmtnb8cmcaf5ir79nrmo9g87lqd@4ax.com>
References: <1163184647.845070.101830@h48g2000cwc.googlegroups.com>
<xnl5h.15905$j7.333534@news.indigo.ie>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node13-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1163289669 66.52.61.13 (11 Nov 2006 19:01:09 -0500)
Lines: 13
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.13
Path: g2news2.google.com!news2.google.com!news.maxwell.syr.edu!newsfeed.slurp.net!
not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:7835

No one has ever gotten a shock from high power RF. Burns, yes.

Bill, W6WRT

------------ ORIGINAL MESSAGE ------------

On Sat, 11 Nov 2006 14:46:53 GMT, "Eamon Skelton"
<Xnospam@oceanfree.net> wrote:

>You don't want to do any high power tests while you
>are up the tower or on the roof. High power = high
>voltage = a long fall if you get a shock!

```
From 787538462594612766
X-Google-Thread: 10bf43,8f0a65310a772163
X-Google-Thread: fc2a5,8f0a65310a772163
X-Google-Thread: 114aac,283666946a01996c
X-Google-Thread: 1109af,8f0a65310a772163
X-Google-Attributes: gid10bf43,gidfc2a5,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave,rec.radio.
swap
Subject: Re: Radio Shack store robbed
Date: Sat, 11 Nov 2006 19:39:17 -0800
Message-ID: <8n5dl25odcm961ns0gctuo91of7ugl05q5@4ax.com>
References: <18671-4554BFEE-81@storefull-3253.bay.webtv.net>
<Y795h.5473$ig4.4880@newsread2.news.pas.earthlink.net>
<vkm5h.291241$5R2.259049@pd7urf3no>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node13-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1163289903 66.52.61.13 (11 Nov 2006 19:05:03 -0500)
Lines: 14
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.13
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
198.186.190.251.MISMATCH!news-out.readnews.com!transit4.readnews.com!
in.100proofnews.com!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.policy:53894
rec.radio.amateur.homebrew:7836 rec.radio.shortwave:58498 rec.radio.swap:9695
```

Pot calls kettle black!

Try "their".

Bill, W6WRT

------------ ORIGINAL MESSAGE ------------

On Sat, 11 Nov 2006 15:51:55 GMT, "Howard Kowall" <hkowall@shaw.ca>
wrote:

>you got questions we got stupid answers
>that is there saying

```
From 6403533635603904302
X-Google-Thread: fc2a5,bbca15782af3129c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
Message-ID: <455699F3.3000302@invalid.invalid>
From: Doug Smith W9WI <w9wi@invalid.invalid>
Reply-To: w9wi@invalid.invalid
Organization: Ham Radio W9WI
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.0.1) Gecko/20020830
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Labeling mobile antennas?
References: <4555F1CD.5030809@invalid.invalid>
<12ld43i9hefm9c5@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 14
Date: Sun, 12 Nov 2006 03:50:13 GMT
NNTP-Posting-Host: 4.154.47.225
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1163303413 4.154.47.225 (Sat, 11 Nov 2006 19:50:13 PST)
NNTP-Posting-Date: Sat, 11 Nov 2006 19:50:13 PST
Xref: g2news2.google.com rec.radio.amateur.homebrew:7837

Dave Platt wrote:
> How about labelling the antenna or base with a self-adhesive label
> (e.g Brother P-Touch), and then covering it with some clear
> heat-shrink tubing?

I've learned the hard way that P-Touch labels can't tolerate exposure to sunlight.

I like the colored tape idea.
--
Doug Smith W9WI
Pleasant View (Nashville), TN EM66
http://www.w9wi.com

From -5187575034244750606
X-Google-Thread: fc2a5,bbca15782af3129c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Labeling mobile antennas?
Date: Sat, 11 Nov 2006 20:04:31 -0800
Message-ID: <bo6dl2trmjeer4ftsv7qntqao3f6deagfo@4ax.com>
References: <4555F1CD.5030809@invalid.invalid>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node13-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1163291418 66.52.61.13 (11 Nov 2006 19:30:18 -0500)
Lines: 28
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.13
Path: g2news2.google.com!news4.google.com!news.glorb.com!out04b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!hwmnpeer01.phx!news.highwinds-media.com!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:7838

Paint or nail polish with the resistor color code:

GRY/BLK = 80
PUR/GRN = 75
YEL/BLK = 40
ORN/BLK = 30
RED/BLK = 20
BRN/GRN = 15
BRN/BLK = 10

Since the hamsticks themselves are black, you could omit black as the second color unless you want to paint a white background first. I'd paint a circle clear around it like a resistor so you can read it without rotating the antenna.

And yes, there is green nail polish. :-)

Bill, W6WRT

------------ ORIGINAL MESSAGE ------------

On Sat, 11 Nov 2006 15:52:47 GMT, Doug Smith W9WI
<w9wi@invalid.invalid> wrote:

>What methods can folks suggest for labeling these antennas? Remember
>that, while in use, it'll be exposed to the elements on the rear bumper
>of a car.

From -345129129184726460
X-Google-Thread: fc2a5,bbca15782af3129c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr27.news.prodigy.net.POSTED!23963527!not-for-mail
From: Mike Leech <jr9893@sbcglobal.net>
User-Agent: Thunderbird 1.5.0.7 (X11/20060918)

MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Labeling mobile antennas?
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 9
Message-ID: <1UE5h.12681$B31.11068@newssvr27.news.prodigy.net>
NNTP-Posting-Host: 69.209.141.60
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr27.news.prodigy.net 1163336317 ST000 69.209.141.60 (Sun, 12 Nov 2006 07:58:37 EST)
NNTP-Posting-Date: Sun, 12 Nov 2006 07:58:37 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
TSU[@SNDGJ@CWZESN[O@_WH@YR_B@EXLLBWLOOAF@YUDUWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
TINTDDMVW[X\THOPXZRVOCJTUTPC_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Sun, 12 Nov 2006 12:58:37 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7839

I use standard return address labels under clear heat shrink (teflon) to label pressure transducers at work and it works just fine.

This has to stand up to hot ATF (Automatic Transmission Fluid) at about 100 deg.C.

P Touch labels are thermal and turn black with heat.

Mike KF8FG

From -7711560059161690207
X-Google-Thread: fc2a5,96beba27a98a8300
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!news.nask.pl!news.nask.org.pl!news.cyf-kr.edu.pl!agh.edu.pl!news.agh.edu.pl!news.onet.pl!not-for-mail
From: MAc <mac_dx@tosiewytnie.poczta.onet.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: automatic (direct reading) SWR Meter
Date: Sun, 12 Nov 2006 14:48:10 +0100
Organization: x
Lines: 8
Message-ID: <ej78mq$ef1$1@news.onet.pl>
References: <eisglq$c9m$1@news.onet.pl>
<1163052644.546483.182800@m73g2000cwd.googlegroups.com>
<eiuq99$k7k$1@news.onet.pl> <yZJ4h.1737$TP6.1221@newsfe05.lga>
<ej04km$7mh$2@news.onet.pl> <12l7cobp0r1ra3d@corp.supernews.com>
<64l7l25d48623gfr8bsa2pomvn2tumeh6m@4ax.com>
Reply-To: mac_dx@tosiewytnie.poczta.onet.pl
NNTP-Posting-Host: pc119.pszczynska.silesianet.pl
Mime-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.onet.pl 1163339290 14817 84.234.115.119 (12 Nov 2006 13:48:10 GMT)
X-Complaints-To: usenet@news.onet.pl
NNTP-Posting-Date: Sun, 12 Nov 2006 13:48:10 +0000 (UTC)
X-Sender: tziRau1SlJeRbF6OI/pJQplh44CxR6pL
In-Reply-To: <64l7l25d48623gfr8bsa2pomvn2tumeh6m@4ax.com>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7840

So, the way is 2x AD8310 +dual opamp and analog meter.
Will report the result. Now I'm waiting for parts.

Thanks to all

73
MAc
sp9mrn

From 3958628785010882567
X-Google-Thread: fc2a5,ac2689f467986e2f,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!wn14feed!worldnet.att.net!
bgtnsc04-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA:NOS AMPEREX TUBES+CRL SWITCHES
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <hFF5h.251483$QZ1.185999@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: 08631d96cb3dcd0cd4a38baf3e92fba3
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1163339469
08631d96cb3dcd0cd4a38baf3e92fba3 (Sun, 12 Nov 2006 13:51:09 GMT)
NNTP-Posting-Date: Sun, 12 Nov 2006 13:51:09 GMT
Organization: AT&T Worldnet
Date: Sun, 12 Nov 2006 13:51:09 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7841

NOS Amperex utbes in original boxes + CRL 3&4 wafer switches (more
coming): will be adding other stuff as well-check often:

see at:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

Tnx for looking, 73 heytubeguy

From 2442533560554012799
X-Google-Thread: fc2a5,bbca15782af3129c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
Message-ID: <45572995.4030901@invalid.invalid>
From: Doug Smith W9WI <w9wi@invalid.invalid>
Reply-To: w9wi@invalid.invalid
Organization: Ham Radio W9WI
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.0.1) Gecko/20020830
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Labeling mobile antennas?
References: <4555F1CD.5030809@invalid.invalid>
<bo6dl2trmjeer4ftsv7qntqao3f6deagfo@4ax.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 28
Date: Sun, 12 Nov 2006 14:03:02 GMT
NNTP-Posting-Host: 4.154.46.188
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1163340182 4.154.46.188 (Sun, 12 Nov 2006 06:03:02 PST)
NNTP-Posting-Date: Sun, 12 Nov 2006 06:03:02 PST
Xref: g2news2.google.com rec.radio.amateur.homebrew:7842

Bill Turner wrote:
> Paint or nail polish with the resistor color code:
>
> GRY/BLK = 80
> PUR/GRN = 75
> YEL/BLK = 40
> ORN/BLK = 30
> RED/BLK = 20
> BRN/GRN = 15
> BRN/BLK = 10
>
> Since the hamsticks themselves are black, you could omit black as the
> second color unless you want to paint a white background first. I'd
> paint a circle clear around it like a resistor so you can read it
> without rotating the antenna.
>
> And yes, there is green nail polish. :-)

I'm single & live in a small town. Buying green nail polish may not be a good idea<grin>.

Would nail polish stand exposure to the elements?

--
Doug Smith W9WI
Pleasant View (Nashville), TN EM66
http://www.w9wi.com

From 3296449773452830213
X-Google-Thread: fc2a5,bbca15782af3129c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe02.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4555F1CD.5030809@invalid.invalid>
<bo6dl2trmjeer4ftsv7qntqao3f6deagfo@4ax.com> <45572995.4030901@invalid.invalid>
Subject: Re: Labeling mobile antennas?
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <LlH5h.13$GH2.5@newsfe02.lga>
X-Trace:
nphhjmdkmllhpdkekannfilpcpbbolnmgkibfnkplaeojmmhnicfceledepkikoolhlefpnpglhfdcnhnf
fbmbcddofhhiejejpkaddlfoepjfjnjgdmmdpcjljogkhkbcnegbbojhamihnb
NNTP-Posting-Date: Sun, 12 Nov 2006 08:46:51 MST
Date: Sun, 12 Nov 2006 10:46:45 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:7843

"Doug Smith W9WI" <w9wi@invalid.invalid> wrote in message
news:45572995.4030901@invalid.invalid...

> I'm single & live in a small town. Buying green nail polish may not be a
> good idea<grin>.

I've been using nail polish to mark the polarity of toriod coils. The problem is, other than red/pink, most of the colors aren't very opaque. Even though blue and fluorescent green look starkly diferent in the bottle, if you paint them on something dark they are pretty hard to tell from clear. Having the brush in the bottle is terribly convenient, though. Why don't they make model enamel with the brush in the cap? Or nail polish that looks like model paint?

Oh yeah, and nail polish has an amazing range of price. I have a few bottles of the cheap stuff I got years ago. Might be more opaque if I could get my head around ten bucks for a half-ounce of paint.

..

```
From 7211629880213756044
X-Google-Thread: fc2a5,bbca15782af3129c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 12 Nov 2006 10:14:13 -0600
Date: Sun, 12 Nov 2006 16:14:13 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Labeling mobile antennas?
References: <4555F1CD.5030809@invalid.invalid>
In-Reply-To: <4555F1CD.5030809@invalid.invalid>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <zqWdnaYWPe7L1crYnZ2dnUVZ_oadnZ2d@bright.net>
Lines: 21
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-QXXH2+VX4vMPyUSNzWvO+qYm48N/
djCZ0aVvTKoFbvOQeolr0VVYeRswtcbrhTxOTFkJBgWQzusJF6r!
33oGBapDYoP6kLZiHqFmNHxRavQp+7sCiRUHHGZDox4tIuIzGVxRAfR7aWSEpgdJwrGA/FxYRAGC!
perX3cR2ZQ==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7844
```

How's about getting an electric engraver. Sears has them. That would permanently mark them and is 100% guaranteed to be weather proof and probably good up to at least Mach 12 or so :)

Scott
N0EDV

Doug Smith W9WI wrote:
> I operate mobile with a number of Hamstick antennas - fiberglass rods
> ~1/2" (1.3cm) diameter with stainless steel whips at the end. A
> separate antenna is necessary for each band.

```
>
> The antennas come with paper tags at the bottom indicating which band
> they're for.  These are surprisingly durable, but they aren't perfect.
> The 20 meter antenna has lost its tag - luckily right now I know that
> the untagged antenna is 20 but if another one loses its tag I'll be down
> to comparing lengths of loading coils...
>
> What methods can folks suggest for labeling these antennas?  Remember
> that, while in use, it'll be exposed to the elements on the rear bumper
> of a car.


From 5406183173087489948
X-Google-Thread: 10bf43,8f0a65310a772163
X-Google-Thread: fc2a5,8f0a65310a772163
X-Google-Thread: 114aac,283666946a01996c
X-Google-Thread: 1109af,8f0a65310a772163
X-Google-Attributes: gid10bf43,gidfc2a5,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews3.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave,rec.radio.
swap
Subject: Re: Radio Shack store robbed
References: <18671-4554BFEE-81@storefull-3253.bay.webtv.net>
<Y795h.5473$ig4.4880@newsread2.news.pas.earthlink.net>
<vkm5h.291241$5R2.259049@pd7urf3no> <8n5dl25odcm961ns0gctuo91of7ugl05q5@4ax.com>
In-Reply-To: <8n5dl25odcm961ns0gctuo91of7ugl05q5@4ax.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 19
Message-ID: <LQH5h.16392$1v.3498@bignews3.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcbolamjmemobnphdafnajkdhpinmfmmmidlcl
piameimchegejpjengocoagdmcoffbbgjhmnnmpgicogmanflichcghjeikgdmoghjlnkgilcmhoje
NNTP-Posting-Date: Sun, 12 Nov 2006 11:19:55 EST
Organization: BellSouth Internet Group
Date: Sun, 12 Nov 2006 11:20:00 -0500
Xref: g2news2.google.com rec.radio.amateur.policy:54001
rec.radio.amateur.homebrew:7845 rec.radio.shortwave:58557 rec.radio.swap:9724

Bill Turner wrote:
> Pot calls kettle black!
>
```

> Try "their".
>
> Bill, W6WRT
>
>
> ------------ ORIGINAL MESSAGE ------------
>
> On Sat, 11 Nov 2006 15:51:55 GMT, "Howard Kowall" <hkowall@shaw.ca>
> wrote:
>
>> you got questions we got stupid answers
>> that is there saying

At a former job I had a rather over weight supervisor, and there was a
crazy technician from Jamaica.   The tech was always making rude
comments about his overweight boss, so we had "the black calling the
kettle pot".

From 4493347229542886903
X-Google-Thread: fc2a5,bbca15782af3129c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe03.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4555F1CD.5030809@invalid.invalid>
<zqWdnaYWPe7L1crYnZ2dnUVZ_oadnZ2d@bright.net>
Subject: Re: Labeling mobile antennas?
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <_lK5h.83$Vd1.32@newsfe03.lga>
X-Trace:
pgpdkimbbbabbbpekannfilpcpbbolnmkeoodaokahdfedianicfceledepkikoolhlefpnpglhfdcnhnf
fbmbcddofhhiejejpkaddlfoepjfjnikmfhghgpacjfbhebpincjkllopekodc
NNTP-Posting-Date: Sun, 12 Nov 2006 12:11:54 MST
Date: Sun, 12 Nov 2006 14:11:47 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:7846

"Scott" <acepilot@bloomer.net> wrote in message
news:zqWdnaYWPe7L1crYnZ2dnUVZ_oadnZ2d@bright.net...

> probably good up to at least Mach 12 or so :)

Funny, I don't recall having you as a passenger lately ...

..

From -408988870231493661
X-Google-Thread: fc2a5,bbca15782af3129c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 12 Nov 2006 13:53:39 -0600
Date: Sun, 12 Nov 2006 19:53:39 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Labeling mobile antennas?
References: <4555F1CD.5030809@invalid.invalid> <zqWdnaYWPe7L1crYnZ2dnUVZ_oadnZ2d@bright.net> <_lK5h.83$Vd1.32@newsfe03.lga>
In-Reply-To: <_lK5h.83$Vd1.32@newsfe03.lga>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <IeSdnXJQv8Ne5srYnZ2dnUVZ_h6dnZ2d@bright.net>
Lines: 21
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-PAJBtyia42fDcbGPTI/rmGt7w/anLoM27Jv/dosDNQpH6ZgiQvS/Ho9QYD4i2qnpgSMELMyzTtSdek8!GASXvi9Kc28uxcqlCMoao/jpT5ED3NcO73gLoK07qMqza+Lli+Zu5L9Pakh39z0dPKPuHLRLk85D!jTM1FrAvbw==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7847

Everybody these days drives Mach 12, don't they? They seem to on the Interstate around Minneapolis! ;)

Scott
N0EDV

xpyttl wrote:

> "Scott" <acepilot@bloomer.net> wrote in message
> news:zqWdnaYWPe7L1crYnZ2dnUVZ_oadnZ2d@bright.net...
>
>
>>probably good up to at least Mach 12 or so :)
>
>

> Funny, I don't recall having you as a passenger lately ...
>
> ..
>
>

From -6426858825231692210
X-Google-Thread: fc2a5,bbca15782af3129c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
Message-ID: <45578A41.2020200@invalid.invalid>
From: Doug Smith W9WI <w9wi@invalid.invalid>
Reply-To: w9wi@invalid.invalid
Organization: Ham Radio W9WI
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.0.1) Gecko/20020830
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Labeling mobile antennas?
References: <4555F1CD.5030809@invalid.invalid> <PYt5h.582$_f3.243@newsfe03.lga>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 23
Date: Sun, 12 Nov 2006 20:55:42 GMT
NNTP-Posting-Host: 4.152.99.21
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1163364942 4.152.99.21 (Sun, 12 Nov 2006 12:55:42 PST)
NNTP-Posting-Date: Sun, 12 Nov 2006 12:55:42 PST
Xref: g2news2.google.com rec.radio.amateur.homebrew:7848

xpyttl wrote:
> Hustlers for 75/80 since the Hamstick doesn't cover 80, and the 75 meter

Yeah, this was an unpleasant surprise last night. I'd bought the 75m antenna months ago & figured it was marketed as "75" because they didn't think anybody would want to work mobile in the CW band. Finally got around to trying it in a Wendy's parking lot in Cadiz, Ky. - and found with the stinger all the way out it wouldn't resonate any lower than 3650.

Yet the cutting guide packed with the antenna provides length settings for the entire 80m band.

Yes, I *was* parked far away from any light poles/buildings/semis/other detuning objects...

(and despite the >9:1 SWR I was able to make three QSOs on 3560 as far away as Pennsylvania...)

--
Doug Smith W9WI
Pleasant View (Nashville), TN EM66
http://www.w9wi.com

From 8391325742404492365
X-Google-Thread: fc2a5,bbca15782af3129c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe02.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <4555F1CD.5030809@invalid.invalid>
<zqWdnaYWPe7L1crYnZ2dnUVZ_oadnZ2d@bright.net> <_lK5h.83$Vd1.32@newsfe03.lga>
<IeSdnXJQv8Ne5srYnZ2dnUVZ_h6dnZ2d@bright.net>
Subject: Re: Labeling mobile antennas?
Lines: 32
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <Q1M5h.38$GH2.0@newsfe02.lga>
X-Trace:
nphhjmdkmllhpdkekannfilpcpbbolnmddinclafebbghnapnicfceledepkikoolhlefpnpglhfdcnhnf
fbmbcddofhhiejejpkaddlfoepjfjnbdkeggpcgeacmpijglbbcfickjagekga
NNTP-Posting-Date: Sun, 12 Nov 2006 14:06:56 MST
Date: Sun, 12 Nov 2006 16:06:52 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:7849

What is it about cities?

Here in MI, the Interstares move along quite nicely out away from the cities
(well, except Friday night when everyone in the state goes "up north"), but
get near Detroit or Grand Rapids or Kalamazoo and you better have your jet
pack..

..

"Scott" <acepilot@bloomer.net> wrote in message
news:IeSdnXJQv8Ne5srYnZ2dnUVZ_h6dnZ2d@bright.net...
> Everybody these days drives Mach 12, don't they? They seem to on the
> Interstate around Minneapolis! ;)
>
> Scott
> N0EDV
>
>
> xpyttl wrote:
>

```
>> "Scott" <acepilot@bloomer.net> wrote in message
>> news:zqWdnaYWPe7L1crYnZ2dnUVZ_oadnZ2d@bright.net...
>>
>>
>>>probably good up to at least Mach 12 or so :)
>>
>>
>> Funny, I don't recall having you as a passenger lately ...
>>
>> ..
>>
```

```
From -3329940721492078196
X-Google-Thread: fc2a5,bbca15782af3129c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 12 Nov 2006 18:30:15 -0600
Date: Mon, 13 Nov 2006 00:30:14 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Labeling mobile antennas?
References: <4555F1CD.5030809@invalid.invalid>
<zqWdnaYWPe7L1crYnZ2dnUVZ_oadnZ2d@bright.net> <_lK5h.83$Vd1.32@newsfe03.lga>
<IeSdnXJQv8Ne5srYnZ2dnUVZ_h6dnZ2d@bright.net> <Q1M5h.38$GH2.0@newsfe02.lga>
In-Reply-To: <Q1M5h.38$GH2.0@newsfe02.lga>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <QNOdndBy5oMFIcrYnZ2dnUVZ_uydnZ2d@bright.net>
Lines: 51
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
wcmmoyAQE1psd9ZF9b1l36XoLvV6kiEozPUYuYWgMNpc2BDNKntZdnhPihgC5b1hI5jCkvrL/LPh6Xx!
UJAo/8SpXCn3nabqAw5LSkQyLCRLME4aT7VcaDGhTA9MrkVHnJaHZkEeNap2gfldqDe3Lq83y++H!+
+YvWCApdA==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7850
```

Amen brother! Not only do they have to go faster, but they HAVE to be in FRONT of you, no matter what!. I've been passed like I'm a dirty rag going in reverse and once they pass, then they get in front of me and slow down to exactly the same speed I am going when they pass me. That always makes a bunch of sense to me! Worse yet is when they pass you in town on a two lane road, get back into the lane in FRONT of you (again), go 2 blocks and then put on their LEFT blinker and now we BOTH have to wait for opposing traffic. I suspect THIS is the reason the concealed weapon laws have a hard time getting passed into law ('cause that sucker would be dead now) ;)

Scott

xpyttl wrote:
> What is it about cities?
>
> Here in MI, the Interstares move along quite nicely out away from the cities
> (well, except Friday night when everyone in the state goes "up north"), but
> get near Detroit or Grand Rapids or Kalamazoo and you better have your jet
> pack..
>
> ..
>
> "Scott" <acepilot@bloomer.net> wrote in message
> news:IeSdnXJQv8Ne5srYnZ2dnUVZ_h6dnZ2d@bright.net...
>
>>Everybody these days drives Mach 12, don't they? They seem to on the
>>Interstate around Minneapolis! ;)
>>
>>Scott
>>N0EDV
>>
>>
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>>
>>
>>>"Scott" <acepilot@bloomer.net> wrote in message
>>>news:zqWdnaYWPe7L1crYnZ2dnUVZ_oadnZ2d@bright.net...
>>>
>>>
>>>
>>>>probably good up to at least Mach 12 or so :)
>>>
>>>
>>>Funny, I don't recall having you as a passenger lately ...
>>>
>>>..
>>>
>
>

From 7216888750196187874
X-Google-Thread: fcc6e,29eb3ac782a0dd0e

X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!feed.xsnews.nl!
feeder.xsnews.nl!border1.nntp.ams.giganews.com!nntp.giganews.com!sn-xt-ams-06!sn-
xt-ams-08!sn-ams!sn-feed-ams-01!sn-post-ams-02!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Date: Mon, 13 Nov 2006 09:40:54 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12lhbh7etppioee@corp.supernews.com>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<1163017911.266486.104440@m7g2000cwm.googlegroups.com>
<12l6nbch852b545@corp.supernews.com> <BCq5h.18297$GE1.1902@bignews7.bellsouth.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 26
Xref: g2news2.google.com rec.radio.amateur.antenna:21487
rec.radio.amateur.homebrew:7851 rec.radio.amateur.policy:54146 rec.radio.swap:9763

"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:BCq5h.18297$GE1.1902@bignews7.bellsouth.net...
> At the time "CB" in the 27mhz region made sense because UHF equipment
> was too expensive to build for the masses. That's no longer true. The
> FCC should eliminate the 27 mhz CB service before the start of the next
> sunspot cycle and force everyone there to move to UHF.

I like your reasoning, although realistically they'd have to have a well-publicized program to do so that would most likely have various "deadlines" that would get pushed back a few times before really having any meaning (just as the switch to broadcast HDTV has done!) I'd expect that equipment manufacturers would -- for a time -- be building dual-band radios.

Given how "abused" FRS and GMRS are anyway, perhaps the FCC could just drop the GMRS licensing requirement and pretty much be done with it!

> One of CB's
> biggest problems was interference from 'skip' (DX), and it is illegal to
> work DX stations anyway.

Really -- I didn't know that (the part about it being illegal)! Seems a little silly to me...

```
---Joel




From 557231444059427671
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Date: Mon, 13 Nov 2006 12:52:19 -0500
Message-ID: <o0chl2hk6of6ib2a7cv0t9lt2hqdn5klf1@4ax.com>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<1163017911.266486.104440@m7g2000cwm.googlegroups.com>
<12l6nbch852b545@corp.supernews.com> <BCq5h.18297$GE1.1902@bignews7.bellsouth.net>
<12lhbh7etppioee@corp.supernews.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 41
NNTP-Posting-Date: 13 Nov 2006 16:57:35 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21488
rec.radio.amateur.homebrew:7852 rec.radio.amateur.policy:54148 rec.radio.swap:9764

On Mon, 13 Nov 2006 09:40:54 -0800, "Joel Kolstad"
<JKolstad71HatesSpam@yahoo.com> wrote:

>"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
>news:BCq5h.18297$GE1.1902@bignews7.bellsouth.net...
>> At the time "CB" in the 27mhz region made sense because UHF equipment
>> was too expensive to build for the masses.  That's no longer true.  The
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>> sunspot cycle and force everyone there to move to UHF.
>
>I like your reasoning, although realistically they'd have to have a
>well-publicized program to do so that would most likely have various
>"deadlines" that would get pushed back a few times before really having any
>meaning (just as the switch to broadcast HDTV has done!)  I'd expect that
>equipment manufacturers would -- for a time -- be building dual-band radios.

get that band back for Ham use is simply imposible too many rigs out
```

```
there
>
>Given how "abused" FRS and GMRS are anyway, perhaps the FCC could just drop
>the GMRS licensing requirement and pretty much be done with it!
>
>> One of CB's
>> biggest problems was interference from 'skip' (DX), and it is illegal to
>> work DX stations anyway.
>
>Really -- I didn't know that (the part about it being illegal)!  Seems a
>little silly to me...
>
indeed it is ilegal to make a contact more than 150 miles away from
you a rule I have broeken without trying near the top of the last
cycle with a a mag mount on AM was living near springfield IL
mentioned the town springfield someone came back refered to roads that
don't exist so yes I have broken that rule and was techinal subjec to
a serve fine becuase the FCC tried to rewrie the laws of physics

it makes it difcult for me to be too critcal of breaking other of the
rules when the rules are so hard to take seriously
>---Joel
>
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From 1658482662293130206
X-Google-Thread: fc2a5,5aefa2e52d1d943d,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!4e73252e!not-for-mail
From: "Richard W. Solomon, W1KSZ" <w1ksz@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: WTD: SuperCap Capacitor
Reply-To: w1ksz@earthlink.net
Message-ID: <2gshl2llpsflj641odperchb27vtn6i88p@4ax.com>
X-Newsreader: Forte Free Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 4
Date: Mon, 13 Nov 2006 22:31:28 GMT
NNTP-Posting-Host: 24.41.20.11
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1163457088 24.41.20.11 (Mon, 13 Nov 2006
14:31:28 PST)
NNTP-Posting-Date: Mon, 13 Nov 2006 14:31:28 PST
```

```
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:7853

I have a Rockwell Jupiter GPS Engine and want to add the SuperCap.
Any sugeestions where I can get one (0.22F).

Thanks, Dick, W1KSZ



From -5017648884457744474
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
From: Slow Code <my.mail@no.spam>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
<s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
<lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
<XSQ3h.3079$l25.2652@newsread4.news.pas.earthlink.net>
<9nqvk290folpkapot0pqm4ks68dummbn27@4ax.com>
<1C94h.3634$L6.3344@newsread3.news.pas.earthlink.net>
<2jucl2ph03e2elmaag3huj4t2nlusl7t5p@4ax.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 43
Message-ID: <ut86h.6395$L6.5374@newsread3.news.pas.earthlink.net>
Date: Tue, 14 Nov 2006 00:54:50 GMT
NNTP-Posting-Host: 4.254.224.224
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1163465690 4.254.224.224 (Mon, 13 Nov
2006 16:54:50 PST)
NNTP-Posting-Date: Mon, 13 Nov 2006 16:54:50 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:21510
rec.radio.amateur.homebrew:7854 rec.radio.amateur.policy:54223
rec.radio.scanner:7795 rec.radio.swap:9778

X-rated Vermonter <k1xvnospam@arrl.net> wrote in
news:2jucl2ph03e2elmaag3huj4t2nlusl7t5p@4ax.com:

> On Wed, 08 Nov 2006 00:34:05 GMT, Slow Code <my.mail@no.spam> wrote:
>
>
```

>>
>>Code is just one part of it. Here's my four step plan that will keep
>>ham radio from becoming like CB:
>>
>>
>>Step 1: No more automatic renewals. Individuals must retest and
>>   pass all elements required for their license class.
>>
>>Step 2: The passing score for written exams needs to be raised to 85%.
>>
>>Step 3: Code elements should be 13 wpm for General, and 20 wpm for
>>Extra.
>>
>>Step 4: Make the no-code license one year non-renewable.
> +++++++++
> Your plan will eliminate QRM. There will be nobody left with a
> license.

I know you're right. Requiring good operators will kill the service.

Hams just want to be appliance operators these days and they don't want
license exams that will interfere with them getting to those appliances
even though it means being less skilled. I don't see anyone modernizing
like everyone says is happening. They just get their licenses and grab a
microphone. What percentage of hams have a computer connected to a
radio? Probably less than 30%. Hams don't want to modernize. Guess we
just have live with inferior operators on the bands from here on out.
Then again, maybe hams shouldn't be required to be knowledgable or have
skills. Requiring skills and knowledge is too old skool. Everything must
be outcome based these days, even licensing. It ain't like we have to
help out in emergencies or anything. It's Quantity, not quality. We need
more hams even if they aren't skilled.

SC

From 3805826339827772232
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news1.google.com!news.maxwell.syr.edu!newsfeed.media.kyoto-u.ac.jp!Spring.edu.tw!news.nctu.edu.tw!news.ntu.edu.tw!news.ndhu.edu.tw!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap

```
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Date: Mon, 13 Nov 2006 16:52:15 -0800
Organization: ��ɫF�ؤj�� InterNetNews site
Lines: 45
Message-ID: <ejb41t$oer$1@news.ndhu.edu.tw>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<1163017911.266486.104440@m7g2000cwm.googlegroups.com>
<12l6nbch852b545@corp.supernews.com> <BCq5h.18297$GE1.1902@bignews7.bellsouth.net>
<12lhbh7etppioee@corp.supernews.com> <o0chl2hk6of6ib2a7cv0t9lt2hqdn5klf1@4ax.com>
NNTP-Posting-Host: 66-81-61-41.nocal.dialup.o1.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.ndhu.edu.tw 1163465599 25051 66.81.61.41 (14 Nov 2006 00:53:19 GMT)
X-Complaints-To: usenet@news.ndhu.edu.tw
NNTP-Posting-Date: Tue, 14 Nov 2006 00:53:19 +0000 (UTC)
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
In-Reply-To: <o0chl2hk6of6ib2a7cv0t9lt2hqdn5klf1@4ax.com>
Xref: g2news2.google.com rec.radio.amateur.antenna:21512
rec.radio.amateur.homebrew:7855 rec.radio.amateur.policy:54231 rec.radio.swap:9781

Mark@kb9rqz.aprs wrote:
> On Mon, 13 Nov 2006 09:40:54 -0800, "Joel Kolstad"
> <JKolstad71HatesSpam@yahoo.com> wrote:
>
>> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
>> news:BCq5h.18297$GE1.1902@bignews7.bellsouth.net...
>>> At the time "CB" in the 27mhz region made sense because UHF equipment
>>> was too expensive to build for the masses.  That's no longer true.  The
>>> FCC should eliminate the 27 mhz CB service before the start of the next
>>> sunspot cycle and force everyone there to move to UHF.
>> I like your reasoning, although realistically they'd have to have a
>> well-publicized program to do so that would most likely have various
>> "deadlines" that would get pushed back a few times before really having any
>> meaning (just as the switch to broadcast HDTV has done!)  I'd expect that
>> equipment manufacturers would -- for a time -- be building dual-band radios.
>
> get that band back for Ham use is simply imposible too many rigs out
> there
>> Given how "abused" FRS and GMRS are anyway, perhaps the FCC could just drop
>> the GMRS licensing requirement and pretty much be done with it!
>>
>>> One of CB's
>>> biggest problems was interference from 'skip' (DX), and it is illegal to
>>> work DX stations anyway.
>> Really -- I didn't know that (the part about it being illegal)!  Seems a
>> little silly to me...
>>
> indeed it is ilegal to make a contact more than 150 miles away from
> you a rule I have broeken without trying near the top of the last
> cycle with a a mag mount on AM was living near springfield IL
> mentioned the town springfield someone came back refered to roads that
> don't exist so yes I have broken that rule and was techinal subjec to
```

> a serve fine becuase the FCC tried to rewrie the laws of physics
>
> it makes it difcult for me to be too critcal of breaking other of the
> rules when the rules are so hard to take seriously
>> ---Joel
>>
> http://kb9rqz.blogspot.com/
>

That arrangement of words comes nearest the most logic, reason and
formed thought I believe ever sprang forth from your keyboard.

JS

From -2477874005787409481
X-Google-Thread: fcc6e,7bd24d129f1f51ce
X-Google-Thread: fc8b1,52622388a3ce42bc,start
X-Google-Thread: fc2a5,52622388a3ce42bc,start
X-Google-Thread: 10bf43,7bd24d129f1f51ce
X-Google-Attributes: gidfcc6e,gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!
stamper.news.pas.earthlink.net!newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!
not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
,rec.radio.amateur.policy
Subject: Re: Is the code requirement really keeping good people out of ham radio?
From: Slow Code <my.mail@no.spam>
References: <1161226881.975499.218860@e3g2000cwe.googlegroups.com>
<p1rdj29mprl4sfu14ceobj8c803te1f7q4@4ax.com>
<8skjj2dgg3135qutv5sdh0tocsihefpq6j@4ax.com>
<wbadnTWFA4H8hKfYnZ2dnUVZ_vadnZ2d@comcast.com>
<fphkj2hrs3ov8hdap7oohi0br3j8mo7gql@4ax.com>
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<f88mj25h232km6eil2s69jbs1j8m1htgmq@4ax.com>
<nqKdndO0747-9abYnZ2dnUVZ_oadnZ2d@comcast.com>
<1161792942.156408.135160@h48g2000cwc.googlegroups.com>
<1161858964.081670.257920@m7g2000cwm.googlegroups.com>
<1161970118.863998.137980@k70g2000cwa.googlegroups.com>
<1162465332.101467.170680@h48g2000cwc.googlegroups.com>
<1162539436.154288.164500@b28g2000cwb.googlegroups.com>
<1162645691.938074.101850@f16g2000cwb.googlegroups.com>
<1162676841.405685.230890@f16g2000cwb.googlegroups.com>
<1163120176.838925.255830@h48g2000cwc.googlegroups.com>
<ej0jhe$28es$1@news.ndhu.edu.tw>
<1163335905.242003.59790@b28g2000cwb.googlegroups.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 43
Message-ID: <Pt86h.6410$L6.4142@newsread3.news.pas.earthlink.net>

Date: Tue, 14 Nov 2006 00:55:11 GMT
NNTP-Posting-Host: 4.254.224.224
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1163465711 4.254.224.224 (Mon, 13 Nov 2006 16:55:11 PST)
NNTP-Posting-Date: Mon, 13 Nov 2006 16:55:11 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:21514 rec.radio.amateur.boatanchors:6296 rec.radio.amateur.homebrew:7856 rec.radio.amateur.policy:54236

N2EY@AOL.COM wrote in
news:1163335905.242003.59790@b28g2000cwb.googlegroups.com:

> John Smith wrote:
>> N2EY@AOL.COM wrote:
>> > ... They are written *by* me, but they are not *about* me. ...
>>
>> I strongly disagree with the above. They are about you. They
>> describe, and I feel quite accurately, the depth, width and breadth of
>> you, your thinking and your abilities.
>
> Well, I disagree somewhat. My posts simply state my thoughts and
> observations on certain subjects. They do not "describe,....., the
> depth, width and breadth of you, your
> thinking and your abilities."
>
> There's more to me than what I post on Usenet. In fact, I try to post
> as little about myself here as possible.
>
> OTOH, they *do* say something about me, their writer. They don't say
> everything, but they do say something. So you do have a point - they
> *are* about me to some extent.
>
>> I ask you, "If not, then why would you not structure your words
>> differently?"
>
> I structure my words as best I can to convey the meanings intended.
> That does not mean my postings are flawless!
>
>> NOTE: This message makes NO statement as to your words worth. It only
>> points out the error in your statement.
>
> Good point. Thanks
>
> 73 de Jim, N2EY

Anyone that enjoys CW and supports keeping the requirement is okay in my
book.

SC

```
From -3999259120744284500
X-Google-Thread: fcc6e,7bd24d129f1f51ce
X-Google-Thread: fc8b1,52622388a3ce42bc
X-Google-Thread: fc2a5,52622388a3ce42bc
X-Google-Thread: 10bf43,7bd24d129f1f51ce
X-Google-Attributes: gidfcc6e,gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!news.osn.de!
diablo2.news.osn.de!news.tele.dk!news.tele.dk!small.news.tele.dk!multikabel.net!
feed20.multikabel.net!news2.euro.net!66.150.105.54.MISMATCH!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
,rec.radio.amateur.policy
Subject: ... -.-.  -. . . -.. ... ... ..-. ..-
Date: Mon, 13 Nov 2006 20:00:37 -0500
Message-ID: <375il2hh8tsv3kuvapjvtm2pqub718au0h@4ax.com>
References: <1161970118.863998.137980@k70g2000cwa.googlegroups.com>
<1162465332.101467.170680@h48g2000cwc.googlegroups.com>
<1162539436.154288.164500@b28g2000cwb.googlegroups.com>
<1162645691.938074.101850@f16g2000cwb.googlegroups.com>
<1162676841.405685.230890@f16g2000cwb.googlegroups.com>
<1163120176.838925.255830@h48g2000cwc.googlegroups.com>
<ej0jhe$28es$1@news.ndhu.edu.tw>
<1163335905.242003.59790@b28g2000cwb.googlegroups.com>
<Pt86h.6410$L6.4142@newsread3.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 46
NNTP-Posting-Date: 14 Nov 2006 00:05:42 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21518
rec.radio.amateur.boatanchors:6298 rec.radio.amateur.homebrew:7857
rec.radio.amateur.policy:54247

On Tue, 14 Nov 2006 00:55:11 GMT, Slow Code <my.mail@no.spam> wrote:

>N2EY@AOL.COM wrote in
>news:1163335905.242003.59790@b28g2000cwb.googlegroups.com:
>
>> John Smith wrote:
>>> N2EY@AOL.COM wrote:
>>> > ... They are written *by* me, but they are not *about* me. ...
>>>
>>> I strongly disagree with the above.  They are about you.  They
>>> describe, and I feel quite accurately, the depth, width and breadth of
>>> you, your thinking and your abilities.
>>
```

```
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>> Good point. Thanks
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>> 73 de Jim, N2EY
>
>
>Anyone that enjoys CW and supports keeping the requirement is okay in my
>book.
>
>SC
>
... -.-.  -. . . -.. ... ... ..-. ..-
http://kb9rqz.blogspot.com/

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Posted via a free Usenet account from http://www.teranews.com




From 3927379425056920658
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
```

```
Subject: ... -.-.  -. . . -.. ... ... ..-. ..-
Date: Mon, 13 Nov 2006 20:00:58 -0500
Message-ID: <t95il2197t071i67eat4i04qvrvdv6g05e@4ax.com>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
<s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
<lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
<XSQ3h.3079$l25.2652@newsread4.news.pas.earthlink.net>
<9nqvk290folpkapot0pqm4ks68dummbn27@4ax.com>
<1C94h.3634$L6.3344@newsread3.news.pas.earthlink.net>
<2jucl2ph03e2elmaag3huj4t2nlusl7t5p@4ax.com>
<ut86h.6395$L6.5374@newsread3.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 48
NNTP-Posting-Date: 14 Nov 2006 00:06:05 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21519
rec.radio.amateur.homebrew:7858 rec.radio.amateur.policy:54248
rec.radio.scanner:7801 rec.radio.swap:9787

On Tue, 14 Nov 2006 00:54:50 GMT, Slow Code <my.mail@no.spam> wrote:

>X-rated Vermonter <k1xvnospam@arrl.net> wrote in
>news:2jucl2ph03e2elmaag3huj4t2nlusl7t5p@4ax.com:
>
>> On Wed, 08 Nov 2006 00:34:05 GMT, Slow Code <my.mail@no.spam> wrote:
>>
>>
>>>
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>>>
>>>
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>>>
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>>>
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>>>
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>> +++++++++
>> Your plan will eliminate QRM.  There will be nobody left with a
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>
>
>
>
>I know you're right. Requiring good operators will kill the service.
```

```
... -.-.  -. . . -.. ... ... ..-. ..-
>
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>more hams even if they aren't skilled.
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From 1379327090315176483
X-Google-Thread: fc2a5,2ea566d6e8897032
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-
mail
From: "Andreas Tekman" <and7@bigfoot.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Tektronix 2215A
Date: 14 Nov 2006 02:50:50 -0800
Organization: http://groups.google.com
Lines: 27
Message-ID: <1163501450.678460.58950@e3g2000cwe.googlegroups.com>
References: <454f2486$0$3073$afc38c87@news.optusnet.com.au>
NNTP-Posting-Host: 62.225.37.69
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1163501455 11668 127.0.0.1 (14 Nov 2006 10:50:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 14 Nov 2006 10:50:55 +0000 (UTC)
In-Reply-To: <454f2486$0$3073$afc38c87@news.optusnet.com.au>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
X-HTTP-Via: 1.0 cache.nt.t-systems.com:8080 (Squid/2.4.STABLE7), 1.0 G8SLV
(NetCache NetApp/6.0.4P1), 1.0 G8SLV (NetCache NetApp/6.0.4P1)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=62.225.37.69;
   posting-account=-frwVgwAAACjFGlMjto-7YpA0CDxaoTm
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:7859

Joe schrieb:

> Hello all
> I am looking for a schematic on the above oscilloscope. The thing blows the
> fuse at switch on. Any advice would also be appreciated. I know there are
> many of these old units out there
> Thanks in advance
> Joe
> vk3bki

Pwr supply is similar in all: Tektronix 2213/2215/2213A. bama.sbc.edu
as a starting point for free download.

check postings of Jim Yanik and others in sci.electronics.* for this
type of fault.

This type of Tektronix scope has an SMPS with a primary pre-req
circuit. Faults, repair hints and corrections are often described in
e.g. sci.electronics.repair and similar.

Most often: TL597 IC blown, FET blown, fast recorvery diode blown.

hth,
Andreas

From 1435732472470183021
X-Google-Thread: fc2a5,806fa2d9ac6b8cd3,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon06.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr25.news.prodigy.net.POSTED!c4667c2f!not-for-mail
From: "Henry Kolesnik" <kolesnik@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: ferrrite in linear tank coil ?
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <S_p6h.5885$IR4.4647@newssvr25.news.prodigy.net>
NNTP-Posting-Host: 70.143.49.79
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr25.news.prodigy.net 1163537458 ST000 70.143.49.79 (Tue, 14 Nov
2006 15:50:58 EST)

NNTP-Posting-Date: Tue, 14 Nov 2006 15:50:58 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
FKPO@MC@@S@ERQXXKZOX_RXAUSXB@DTMNHWB_EYLJZ]BGIELNVUEAE[YETZPIWWI[FCIZA^NBFXZ_D[BFN
TCNVPDTNTKHWXKB@X^B_OCJLPZ@ET_O[G\XSG@E\G[ZKVLBL^CJINM@I_KVIOR\T_M_AW_M[_BWU_HFA_]
@A_A^SGFAUDE_DFTMQPFWVW[QPJN
Date: Tue, 14 Nov 2006 20:50:58 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7860

This item on ebay:
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=200047524644
has a ferrite rods in the tank coil. I've never heard of or seen this
before.
Any expert opinions out there?
tnx

--

73
Hank WD5JFR

From 6513350522262016417
X-Google-Thread: fc2a5,806fa2d9ac6b8cd3
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!
newsfeed.news.ucla.edu!ucdavis!not-for-mail
From: Skipp checks in <spammenot@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ferrrite in linear tank coil ?
Date: Tue, 14 Nov 2006 23:18:50 +0000 (UTC)
Organization: University of California, Davis
Lines: 28
Sender: Skipp May <skipp@vici.ucdavis.edu>
Message-ID: <ejdisq$d6f$1@skeeter.ucdavis.edu>
References: <S_p6h.5885$IR4.4647@newssvr25.news.prodigy.net>
NNTP-Posting-Host: vici.ucdavis.edu
X-Trace: skeeter.ucdavis.edu 1163546330 13519 169.237.105.41 (14 Nov 2006 23:18:50
GMT)
X-Complaints-To: usenet@ucdavis.edu
NNTP-Posting-Date: Tue, 14 Nov 2006 23:18:50 +0000 (UTC)
User-Agent: tin/1.4.7-20030322 ("Suggestions") (UNIX) (SunOS/5.8 (sun4u))
Xref: g2news2.google.com rec.radio.amateur.homebrew:7861

Sure, it's done quite a bit to increase the inductance. The fly in your
soup is trying to keep the ferrite material from Saturation.

If you like the subject of rf (and audio) amplifiers you might consider
joining the yahoo rf amplifiers group:

http://groups.yahoo.com/group/rfamplifiers/

Well over 800 members and we talk about all things rf amplifier related
but not limited to.

Hope to see you there...

cheers,
skipp

: Henry Kolesnik <kolesnik@sbcglobal.net> wrote:
: This item on ebay:
: http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=200047524644
: has a ferrite rods in the tank coil. I've never heard of or seen this
: before.
: Any expert opinions out there?
: tnx
: --
: 73
: Hank WD5JFR

```
From -8718116359351362422
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: "larya" <larya@rogers.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Date: 8 Nov 2006 12:31:51 -0800
Organization: http://groups.google.com
Lines: 19
Message-ID: <1163017911.266486.104440@m7g2000cwm.googlegroups.com>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
NNTP-Posting-Host: 72.137.112.251
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1163017915 19228 127.0.0.1 (8 Nov 2006 20:31:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 8 Nov 2006 20:31:55 +0000 (UTC)
In-Reply-To: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
```

Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=72.137.112.251;
   posting-account=C6IxWQ0AAADLr3wjwqbnb1-4inm1A98K
Xref: g2news2.google.com rec.radio.amateur.antenna:21171
rec.radio.amateur.homebrew:7761 rec.radio.amateur.policy:53524 rec.radio.swap:9581

I think you will find that cw is making a comeback.   Now that the cw requirement has been serverly reduced, more hams are getting into cw and it should be starting to make a comback....

Second... I also think you will find that the fcc, and in my country the IC, are deeply regretting the conversion of 11 meters to 'cb'. Virtually all of our bad radio operating procedures, of all radio services, can all be traced back to the bad operating technique found in the 11 meter cb band....

Larry ve3fxq

Slow Code wrote:
> When CW is gone, CB'ers will get the other bands too.
>
>
> SC

From 6208254109199912049
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Date: Wed, 08 Nov 2006 15:51:18 -0500
Message-ID: <qng4l25fdjfooduifg7sktfgclf10uoofp@4ax.com>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<1163017911.266486.104440@m7g2000cwm.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 28
NNTP-Posting-Date: 08 Nov 2006 19:56:19 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21172

```
rec.radio.amateur.homebrew:7762 rec.radio.amateur.policy:53529 rec.radio.swap:9583

On 8 Nov 2006 12:31:51 -0800, "larya" <larya@rogers.com> wrote:

>I think you will find that cw is making a comeback.   Now that the cw
>requirement has been serverly reduced, more hams are getting into cw
>and it should be starting to make a comback....
>
>Second... I also think you will find that the fcc, and in my country
>the IC, are deeply regretting the conversion of 11 meters to 'cb'.
>Virtually all of our bad radio operating procedures, of all radio
>services, can all be traced back to the bad operating technique found
>in the 11 meter cb band....

CW could make a something of a comeback Like AM if it advocates can
learn better manners bothon here and on the air dealing with newer CW
Ops

as it I I suspect MORSE USE is doomed by the attittude of it's
advocates
>
>Larry ve3fxq
>
>
>Slow Code wrote:
>> When CW is gone, CB'ers will get the other bands too.
>>
>>
>> SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -7312834915949257930
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc01.POSTED!24dd0da6!not-for-mail
Sender: Jim Pennino <jimp@mail.specsol.com>
Message-ID: <9os924-mvo.ln1@mail.specsol.com>
From: jimp@specsol.spam.sux.com
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
```

```
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<6bh2l2lfjr65mf9qevdr1o4nbcqouqtfnd@4ax.com>
<1162969031.058681.231590@e3g2000cwe.googlegroups.com>
<PQk4h.23824$TV3.12566@newssvr21.news.prodigy.com>
<4551DB75.1080801@optonline.net> <Xdn4h.7005$9v5.5642@newssvr29.news.prodigy.net>
User-Agent: tin/1.8.1-20060215 ("Mealasta") (UNIX) (SunOS/5.9 (sun4u))
Lines: 24
Date: Wed, 08 Nov 2006 20:55:03 GMT
NNTP-Posting-Host: 71.118.11.57
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc01 1163019303 71.118.11.57 (Wed, 08 Nov 2006 15:55:03 EST)
NNTP-Posting-Date: Wed, 08 Nov 2006 15:55:03 EST
Xref: g2news2.google.com rec.radio.amateur.antenna:21173
rec.radio.amateur.homebrew:7763 rec.radio.amateur.policy:53530 rec.radio.swap:9584

In rec.radio.amateur.antenna Cecil Moore <mycall@hotmail.com> wrote:
> Harry Gross wrote:
> >
> > Cecil Moore wrote:
> >> Thus, a continuous wave is incapable of conveying
> >> any information.
> >
> > Um, not quite:-)  The very presence of the CW signal conveys SOME
> > information (e.q. the fact that something is out there generating it:-)

> "Information - an indication of the number of possible
> choices of messages, expressible as the value of some
> monotonic function of the number of choices."
> --
> 73, Cecil  http://www.w5dxp.com

How about a DF to give the bearing to the transmitter?

See straws, grasping.

--
Jim Pennino

Remove .spam.sux to reply.


From -4296263000771199223
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!b8289220!not-for-mail
Reply-To: "David  Thompson" <thompson@mindspring.com>
From: "David  Thompson" <thompson@mindspring.com>
```

```
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Lines: 7
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Message-ID: <k6s4h.4055$0r.3409@newsread1.news.pas.earthlink.net>
Date: Wed, 08 Nov 2006 21:37:20 GMT
NNTP-Posting-Host: 4.154.99.214
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1163021840 4.154.99.214 (Wed, 08 Nov
2006 13:37:20 PST)
NNTP-Posting-Date: Wed, 08 Nov 2006 13:37:20 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.antenna:21174
rec.radio.amateur.homebrew:7764 rec.radio.amateur.policy:53541 rec.radio.swap:9588
```

That was 50 years ago!   If you listened to the ARRL SS last weekend you
know CW is not dead. Look at Dx Summit spots...CW is by far the majority!
And I am mostly SSB!

Dave K4JRB

```
From 8414291105408019306
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!b8289220!not-for-mail
Reply-To: "David  Thompson" <thompson@mindspring.com>
From: "David  Thompson" <thompson@mindspring.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Lines: 12
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Message-ID: <B8s4h.4056$0r.2900@newsread1.news.pas.earthlink.net>
```

```
Date: Wed, 08 Nov 2006 21:39:45 GMT
NNTP-Posting-Host: 4.154.99.214
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1163021985 4.154.99.214 (Wed, 08 Nov
2006 13:39:45 PST)
NNTP-Posting-Date: Wed, 08 Nov 2006 13:39:45 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.antenna:21175
rec.radio.amateur.homebrew:7765 rec.radio.amateur.policy:53542 rec.radio.swap:9589
```

Stop posting on multiple newsgroups. Don't you have anything else to do
Dave K4JRB

"Slow Code" <my.mail@no.spam> wrote in message
news:4C94h.3637$L6.184@newsread3.news.pas.earthlink.net...

>
> When CW is gone, CB'ers will get the other bands too.
>
>
> SC

```
From -6594171982365831505
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Date: Wed, 08 Nov 2006 16:48:19 -0500
Message-ID: <v2k4l2hkl1j8hlfm94m70qulmadgeamlq5@4ax.com>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<B8s4h.4056$0r.2900@newsread1.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 18
NNTP-Posting-Date: 08 Nov 2006 20:53:21 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21176
rec.radio.amateur.homebrew:7766 rec.radio.amateur.policy:53544 rec.radio.swap:9590
```

On Wed, 08 Nov 2006 21:39:45 GMT, "David Thompson"

```
<thompson@mindspring.com> wrote:

>Stop posting on multiple newsgroups.  Don't  you have anything else to do
>Dave K4JRB
he has to do that he is trying to try up RRAP and can't find any
support for his desires to destory the ARS by taking the liecsening
back to the 1950's
>
>"Slow Code" <my.mail@no.spam> wrote in message
>news:4C94h.3637$L6.184@newsread3.news.pas.earthlink.net...
>>
>> When CW is gone, CB'ers will get the other bands too.
>>
>>
>> SC
>
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From -7005304868003887359
X-Google-Thread: fc2a5,41f090f79cf9b4cd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 08 Nov 2006 16:17:43 -0600
Date: Wed, 08 Nov 2006 22:17:45 +0000
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/
20060910 SeaMonkey/1.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Super Glue doesn't work any more
References: <1162945128.879720@newsreg.cos.agilent.com>
In-Reply-To: <1162945128.879720@newsreg.cos.agilent.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <3Kqdnaq9LMAVys_YnZ2dnUVZ8sqdnZ2d@pipex.net>
Lines: 27
NNTP-Posting-Host: 81.179.184.211
X-Trace: sv3-
nPOvak1NIyU7PGot1OybKURWTfS03CUHVOwuvsjDqOeAozkN7uBKCPVxfU5NVoYlFMrR5EhVLDugfoj!
f0PLWNZuEU2cV8yXmQhxYIMT5Eqjsl1rzvr3PjuIZXeZ3gIvXgtjUX/wk3ZQ/AEjfysSsyjyt2Gs!
1qubpxfrhn36fHLqc6vjTP/p5Zw=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7767

Al Lorona wrote:
> Has anybody noticed that Super Glue (cyanoacrylate clear liquid glue) just
> doesn't seem to work any more? I remember when it first came out that it
> used to bond anything and everything. Lately, seems that I can't even fix my
> son's toys with it any more.
>
> Latest failure: Just tried to glue a small 12V DC fan for a PA with it and
> the bond came apart the next day pretty much by itself.

============================
Super glue (cyano-acrylate) works on the basis of 'exclusion of oxygen'
at the joint ,hence it can often be used effectively for rejoining
broken crockery.

With plastic the break surface is often less 'crisp' especially when
interfered with by tools /sandpaper.   Hence an expoxy type of glue is
then more appropriate .

Some plastics can be jointed by hot glue dispensed by a hot melt gun
provided it is done carefully and there is a reasonably large jointing
surface.

Polystyrene can be best (re)jointed with polystyrene glue as used for
model making , or acetone (nail polish remover) when the material at
the joint is dissolved locally by the acetone (a solvent).

Frank   GM0CSZ / KN6WH

From 3424274155109115856
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 08 Nov 2006 16:30:47 -0600
Date: Wed, 08 Nov 2006 17:30:49 -0500
From: Dave <W1MCE@comcast.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.4) Gecko/20030624
Netscape/7.1 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap

Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<6bh2l2lfjr65mf9qevdr1o4nbcqouqtfnd@4ax.com>
<1162969031.058681.231590@e3g2000cwe.googlegroups.com>
<PQk4h.23824$TV3.12566@newssvr21.news.prodigy.com>
<4551DB75.1080801@optonline.net> <Xdn4h.7005$9v5.5642@newssvr29.news.prodigy.net>
<9os924-mvo.ln1@mail.specsol.com>
In-Reply-To: <9os924-mvo.ln1@mail.specsol.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <l4GdnZhp6e4Kx8_YnZ2dnUVZ_vCdnZ2d@comcast.com>
Lines: 31
NNTP-Posting-Host: 24.62.153.73
X-Trace: sv3-ZhPd7DEVPZZpbQhj70mgaH27sf/lQGN2ZwbNfbm2x4e/isE67WtrZ/
YjqpMOOHLuLNwuCr3xIoHI4dt!zXP8VXtL6IABc1CmI+z14j++ACNEcpLR1r6CFPt/2/
Hd1/26gGkIf0Q28yyUOB6mQSHoIvDKoN8a!HNm9pR2/dcf4NN0FEfY=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.antenna:21178
rec.radio.amateur.homebrew:7768 rec.radio.amateur.policy:53547 rec.radio.swap:9592

jimp@specsol.spam.sux.com wrote:

> In rec.radio.amateur.antenna Cecil Moore <mycall@hotmail.com> wrote:
>
>>Harry Gross wrote:
>>
>>>Cecil Moore wrote:
>>>
>>>>Thus, a continuous wave is incapable of conveying
>>>>any information.
>>>
>>>Um, not quite:-) The very presence of the CW signal conveys SOME
>>>information (e.q. the fact that something is out there generating it:-)
>
>
>>"Information - an indication of the number of possible
>>choices of messages, expressible as the value of some
>>monotonic function of the number of choices."
>>--
>>73, Cecil http://www.w5dxp.com
>
>
> How about a DF to give the bearing to the transmitter?
>
> See straws, grasping.
>

How about a carrier that confirms ALL OK.

Absence of carrier = Problem exists.

```
From -3711873255715675791
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr11.news.prodigy.com.POSTED!d93218c8!not-for-mail
From: "JD" <andersonj@acu.edu>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<rDn4h.1397$6t.321@newssvr11.news.prodigy.com>
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Lines: 13
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <klt4h.1512$6t.22@newssvr11.news.prodigy.com>
NNTP-Posting-Host: 70.133.155.193
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr11.news.prodigy.com 1163026896 ST000 70.133.155.193 (Wed, 08 Nov
2006 18:01:36 EST)
NNTP-Posting-Date: Wed, 08 Nov 2006 18:01:36 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
FKPO@SBEVJC[CZH]]RKB_UDAZZ\DPCPDLXUNNHPIMASJETAANVW[AKWZE\]^XQWIGNE_[EBL@^_\^JOCQ^
RSNVLGTFTKHTXHHP[NB\_C@\SD@EP_[KCXX__AGDDEKGFNB\ZOKLRNCY_CGG[RHT_UN@C_BSY\G__IJIX_
PLSA[CCFAULEY\FL\VLGANTQQ]FN
Date: Wed, 08 Nov 2006 23:01:36 GMT
Xref: g2news2.google.com rec.radio.amateur.antenna:21181
rec.radio.amateur.homebrew:7769 rec.radio.amateur.policy:53552 rec.radio.swap:9595
```

This is worse that a chat room, lotsalaughs
"JD" <andersonj@acu.edu> wrote in message
news:rDn4h.1397$6t.321@newssvr11.news.prodigy.com...
> Is this a Chat Room?

```
> "Slow Code" <my.mail@no.spam> wrote in message
> news:4C94h.3637$L6.184@newsread3.news.pas.earthlink.net...
>>
>> When CW is gone, CB'ers will get the other bands too.
>>
>>
>> SC
>



From -7406542622502965606
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: N2EY@AOL.COM
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Date: 8 Nov 2006 15:43:07 -0800
Organization: http://groups.google.com
Lines: 61
Message-ID: <1163029387.830593.79290@m7g2000cwm.googlegroups.com>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
   <12l2a6geou7ftc7@corp.supernews.com>
NNTP-Posting-Host: 64.12.116.10
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1163029393 22352 127.0.0.1 (8 Nov 2006 23:43:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 8 Nov 2006 23:43:13 +0000 (UTC)
In-Reply-To: <12l2a6geou7ftc7@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 Turboweb [mtc-tf011 8.4.1], HTTP/1.1 cache-mtc-
aa06.proxy.aol.com[400C740A] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=64.12.116.10;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news2.google.com rec.radio.amateur.antenna:21185
rec.radio.amateur.homebrew:7770 rec.radio.amateur.policy:53558 rec.radio.swap:9599

David G. Nagel wrote:
> Slow Code wrote:
> > When CW is gone, CB'ers will get the other bands too.
```

> > SC

> Actually what the FCC did was to take the 11 meter band and create the General Radio Service Class C and Class D.
> Class C was limited to only a few channels (6) limited to control and paging. Class D was farmed out as 23 channels with only AM modulation and a max. of 5 watts power input to the finals. This was later modified to 40 channels and 4 watts input.

Wasn't it 4 watts output?

> The classic CB'er came just prior to the increase to 40 channels.
>
> Dave N
> KBH1602 (very expired)

Some more facts:

11 meters was never a ham band by international treaty. FCC allowed hams to use it on a shared basis with Industrial, Scientific and Medical users after WW2. This was done in part as a sort of compensation for hams' loss of 160 meters to LORAN after WW2.

The Citizens' Radio Service was created by FCC in the late 1940s. The original Class A and Class B services were on UHF - right where FRS and GMRS are now.

The problem was that, in those days, the UHF radios that performed well were big, heavy, expensive, power hungry and complex. Simple UHF sets that were small, light, inexpensive and simple didn't perform too well.

The Citizen's Radio service had so few takers at the end of 10 years that FCC created Class C and Class D, at 27 MHz. Low power channelized sets for 27 MHz could be made small and inexpensive even with the technology of the late 1950s.

FCC could take the band away from hams because it wasn't a ham band by treaty anyway. They also argued that the creation of the 15 meter ham band in 1954, and the gradual return of 160 to hams, meant that 11 meters wasn't critical to ham radio.

Add to that the fact that 11 meters wasn't the most-popular ham band anyway. Many popular rigs of the time didn't even cover the band. It wasn't harmonically related to the other HF/MF ham bands of the era, and in many areas it was full of noise from ISM users like diathermy machines, vacuum formers, etc. Since many other countries didn't allocate 11 meters to hams, there wasn't as much DX to work on 11. And the 1.7 MHz wide 10 meter band was right next door.

Of course hams didn't like losing the band, fearing that it was a harbinger of things to come, but it wasn't. Over the intervening years, we hams got all of 160 back, and three new HF bands at 30, 17 and 12 meters. The cb boom of the '70s came and went, and hams are still here.

73 de Jim, N2EY

From 8621777659259707421
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr27.news.prodigy.net.POSTED!00eff025!not-for-mail
From: Cecil Moore <mycall@hotmail.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<6bh2l2lfjr65mf9qevdr1o4nbcqouqtfnd@4ax.com>
<1162969031.058681.231590@e3g2000cwe.googlegroups.com>
<PQk4h.23824$TV3.12566@newssvr21.news.prodigy.com>
<4551DB75.1080801@optonline.net> <Xdn4h.7005$9v5.5642@newssvr29.news.prodigy.net>
<9os924-mvo.ln1@mail.specsol.com> <l4GdnZhp6e4Kx8_YnZ2dnUVZ_vCdnZ2d@comcast.com>
In-Reply-To: <l4GdnZhp6e4Kx8_YnZ2dnUVZ_vCdnZ2d@comcast.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 8
Message-ID: <hyu4h.9002$B31.8504@newssvr27.news.prodigy.net>
NNTP-Posting-Host: 75.6.200.56
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr27.news.prodigy.net 1163031821 ST000 75.6.200.56 (Wed, 08 Nov 2006
19:23:41 EST)
NNTP-Posting-Date: Wed, 08 Nov 2006 19:23:41 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
OP\YG\GFEB^UCWDYIBHZOWP@YZOZ@GXOXR]ZMVMHQAVTUZ]CLNTCPFK[WDXDHV[K^FCGJCJLPF_D_NCC@F
UG^Q\DINVAXSLIFXYJSSCCALP@PB@\OS@BITWAH\CQZKJMMD^SJA^NXA\GVLSRBD^M_NW_F[YLVTWIGAXA
QBOATKBBQRXECDFDMQ\DZFUE@\JM
Date: Thu, 09 Nov 2006 00:23:41 GMT
Xref: g2news2.google.com rec.radio.amateur.antenna:21187
rec.radio.amateur.homebrew:7771 rec.radio.amateur.policy:53560 rec.radio.swap:9600

Dave wrote:
> How about a carrier that confirms ALL OK.
> Absence of carrier = Problem exists.

```
Absence of carrier is the opposite of
continuous wave. :-)
--
73, Cecil  http://www.w5dxp.com


From 3749123392433608344
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
From: Slow Code <my.mail@no.spam>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<6bh2l2lfjr65mf9qevdr1o4nbcqouqtfnd@4ax.com>
<1162969031.058681.231590@e3g2000cwe.googlegroups.com>
<PQk4h.23824$TV3.12566@newssvr21.news.prodigy.com>
<4551DB75.1080801@optonline.net> <Xdn4h.7005$9v5.5642@newssvr29.news.prodigy.net>
<9os924-mvo.ln1@mail.specsol.com> <l4GdnZhp6e4Kx8_YnZ2dnUVZ_vCdnZ2d@comcast.com>
<hyu4h.9002$B31.8504@newssvr27.news.prodigy.net>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 17
Message-ID: <NSu4h.4106$0r.399@newsread1.news.pas.earthlink.net>
Date: Thu, 09 Nov 2006 00:45:33 GMT
NNTP-Posting-Host: 4.254.227.45
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1163033133 4.254.227.45 (Wed, 08 Nov
2006 16:45:33 PST)
NNTP-Posting-Date: Wed, 08 Nov 2006 16:45:33 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:21189
rec.radio.amateur.homebrew:7773 rec.radio.amateur.policy:53564 rec.radio.swap:9602

Cecil Moore <mycall@hotmail.com> wrote in
news:hyu4h.9002$B31.8504@newssvr27.news.prodigy.net:

> Dave wrote:
>> How about a carrier that confirms ALL OK.
>> Absence of carrier = Problem exists.
>
> Absence of carrier is the opposite of
> continuous wave. :-)


And switching between the two with various patterns can convey a message.
```

Those with a brain and who aren't lazy can receive it, those that can't
should stay on CB.

SC

From 3547808778548821270
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
From: Slow Code <my.mail@no.spam>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
<s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
<lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
<XSQ3h.3079$l25.2652@newsread4.news.pas.earthlink.net>
<9nqvk290folpkapot0pqm4ks68dummbn27@4ax.com>
<1C94h.3634$L6.3344@newsread3.news.pas.earthlink.net>
<eir9jg$b9u$1@aioe.server.aioe.org>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 20
Message-ID: <KSu4h.4104$0r.533@newsread1.news.pas.earthlink.net>
Date: Thu, 09 Nov 2006 00:45:30 GMT
NNTP-Posting-Host: 4.254.227.45
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1163033130 4.254.227.45 (Wed, 08 Nov
2006 16:45:30 PST)
NNTP-Posting-Date: Wed, 08 Nov 2006 16:45:30 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:21188
rec.radio.amateur.homebrew:7772 rec.radio.amateur.policy:53562
rec.radio.scanner:7674 rec.radio.swap:9601

John Smith <assemblywizard@gmail.com> wrote in
news:eir9jg$b9u$1@aioe.server.aioe.org:

> Tell us man, we are here to help you! Don't be afraid to admit it and
> come clean. You already have our pity, although you found the end to
> our patience a while back.
>
> JS

John,

If it's not too difficult for your tiny CW hating brain to handle, try to
figured out how to use your killfile. Everyone is tired of seeing your
retard follow-ups to my protect ham radio posts. Tnx.

Try not to get your pants dirty when you sit on the floor at the next
club meeting.

SC

```
From -3197680280364061121
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!
nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups: 
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
Date: Wed, 08 Nov 2006 21:33:18 -0500
Message-ID: <eq45l2lb64kmg2dghqu40o0pp3i6bkqbqf@4ax.com>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
<s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
<lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
<XSQ3h.3079$l25.2652@newsread4.news.pas.earthlink.net>
<9nqvk290folpkapot0pqm4ks68dummbn27@4ax.com>
<1C94h.3634$L6.3344@newsread3.news.pas.earthlink.net>
<eir9jg$b9u$1@aioe.server.aioe.org>
<KSu4h.4104$0r.533@newsread1.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 27
NNTP-Posting-Date: 09 Nov 2006 01:38:20 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21196
rec.radio.amateur.homebrew:7774 rec.radio.amateur.policy:53581
rec.radio.scanner:7677 rec.radio.swap:9608
```

On Thu, 09 Nov 2006 00:45:30 GMT, Slow Code <my.mail@no.spam> wrote:

```
>John Smith <assemblywizard@gmail.com> wrote in
>news:eir9jg$b9u$1@aioe.server.aioe.org:
>
>> Tell us man, we are here to help you!  Don't be afraid to admit it and
>> come clean.  You already have our pity, although you found the end to
>> our patience a while back.
>>
>> JS
>
>
>John,
>
>If it's not too difficult for your tiny CW hating brain to handle, try to
>figured out how to use your killfile.  Everyone is tired of seeing your
>retard follow-ups to my protect ham radio posts. Tnx.

lying again SC not everybody
>
>Try not to get your pants dirty when you sit on the floor at the next
>club meeting.

why would he sit on the floor?
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From -3513946824552440355
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-
mail
From: "cmdr buzz corey" <cmdr-buzz-corey@mailcity.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Date: 8 Nov 2006 22:04:17 -0800
Organization: http://groups.google.com
Lines: 16
Message-ID: <1163052257.698157.165480@m73g2000cwd.googlegroups.com>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
   <6bh2l2lfjr65mf9qevdr1o4nbcqouqtfnd@4ax.com>
NNTP-Posting-Host: 70.58.185.127
Mime-Version: 1.0
```

```
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1163052264 6338 127.0.0.1 (9 Nov 2006 06:04:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 9 Nov 2006 06:04:24 +0000 (UTC)
In-Reply-To: <6bh2l2lfjr65mf9qevdr1o4nbcqouqtfnd@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.5) Gecko/
20051012 Netscape/8.0.4,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=70.58.185.127;
   posting-account=ANMgdQ0AAAA_X09SagkYnptM5IJu1UIz
Xref: g2news2.google.com rec.radio.amateur.antenna:21202
rec.radio.amateur.homebrew:7775 rec.radio.amateur.policy:53596 rec.radio.swap:9612


X-rated wrote:
> On Wed, 08 Nov 2006 00:34:08 GMT, Slow Code <my.mail@no.spam> wrote:
>
> >
> >When CW is gone, CB'ers will get the other bands too.
> >
> >
> >SC
> ++++++++
> I fail to see the connection between Country and Western music bands
> and amateur radio.  And what makes you think that Country and Western
> is endangered in the first place?

Actually today it is Country and Restroom.



From -3859440501690931027
X-Google-Thread: fc2a5,96beba27a98a8300
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-
mail
From: sailtamarack@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: automatic (direct reading) SWR Meter
Date: 8 Nov 2006 22:10:44 -0800
Organization: http://groups.google.com
Lines: 23
Message-ID: <1163052644.546483.182800@m73g2000cwd.googlegroups.com>
References: <eisglq$c9m$1@news.onet.pl>
NNTP-Posting-Host: 70.66.131.246
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1163052650 7158 127.0.0.1 (9 Nov 2006 06:10:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 9 Nov 2006 06:10:50 +0000 (UTC)
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=70.66.131.246;
   posting-account=gXcV3gwAAACKhdV_aZ9TbpV32cSAnBGe
Xref: g2news2.google.com rec.radio.amateur.homebrew:7776
```

Mac,

You will probably get more responses if you describe what you want in
more detail: frequency of operation, inline or test instrument, self
contained or PC based, remote head, analog or digital display, cost,
commercial or homebrew etc.

I suggest that you take a look at current and back issues of the ARRL
handbook and read the articles @ http://www.arrl.org/tis/tismenu.html

Regards - Roger

MAc wrote:

> Hi
> I'm looking for Direct reading SWR meter (schematics, pcb, solution,
> ideas - anything)
>
> Help please
> MAc
>
> PS - got QST 97/2

```
From 6460237716564408901
X-Google-Thread: fc2a5,96beba27a98a8300
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.nask.pl!
news.nask.org.pl!news.internetia.pl!newsfeed.gazeta.pl!news.onet.pl!not-for-mail
From: MAc <mac_dx@tosiewytnie.poczta.onet.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: automatic (direct reading) SWR Meter
Date: Thu, 09 Nov 2006 09:52:57 +0100
Organization: x
Lines: 17
Message-ID: <eiuq99$k7k$1@news.onet.pl>
References: <eisglq$c9m$1@news.onet.pl>
<1163052644.546483.182800@m73g2000cwd.googlegroups.com>
Reply-To: mac_dx@tosiewytnie.poczta.onet.pl
NNTP-Posting-Host: pc119.pszczynska.silesianet.pl
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 8bit
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X-Trace: news.onet.pl 1163062377 20724 84.234.115.119 (9 Nov 2006 08:52:57 GMT)
X-Complaints-To: usenet@news.onet.pl
NNTP-Posting-Date: Thu, 9 Nov 2006 08:52:57 +0000 (UTC)
X-Sender: tziRau1SlJeRbF6OI/pJQplh44CxR6pL
In-Reply-To: <1163052644.546483.182800@m73g2000cwd.googlegroups.com>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7777

sailtamarack@yahoo.ca napisał(a):

> You will probably get more responses if you describe what you want in
> more detail: frequency of operation, inline or test instrument, self
> contained or PC based, remote head, analog or digital display, cost,
> commercial or homebrew etc.

;-) ANY ideas. ANY schematics, Any The topic is "direct reading" :-)

mac

the best would be:
  analogue,
  single meter,
  1,8-30
of course homebrew - it's r.r.a.h group

From -2335270259356659046
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
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X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 09 Nov 2006 06:58:36 -0600
Date: Thu, 09 Nov 2006 07:58:38 -0500
From: Dave <W1MCE@comcast.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.4) Gecko/20030624
Netscape/7.1 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<12l2a6geou7ftc7@corp.supernews.com>
<1163029387.830593.79290@m7g2000cwm.googlegroups.com>
In-Reply-To: <1163029387.830593.79290@m7g2000cwm.googlegroups.com>
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Content-Transfer-Encoding: 7bit
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Lines: 53
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WeQdN+BEbYfcVKy6X5vcyazm47K4gpY6EXtJvMJ0NH3ik+RzX4IuiL2IRL9yXlb7FYQOTvdghzFD!
EGtfwoZLM/PMiljSOhU=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.antenna:21207
rec.radio.amateur.homebrew:7778 rec.radio.amateur.policy:53603 rec.radio.swap:9613
```

N2EY@AOL.COM wrote:

SNIPPED

> Some more facts:
>
> 11 meters was never a ham band by international treaty. FCC allowed
> hams to use it on a shared basis with Industrial, Scientific and
> Medical users after WW2. This was done in part as a sort of
> compensation for hams' loss of 160 meters to LORAN after WW2.
>
> The Citizens' Radio Service was created by FCC in the late 1940s. The
> original Class A and Class B services were on UHF - right where FRS
> and GMRS are now.
>
> The problem was that, in those days, the UHF radios that performed well
> were big, heavy, expensive, power hungry and complex. Simple UHF sets
> that were small, light, inexpensive and simple didn't perform too well.
>
>
> The Citizen's Radio service had so few takers at the end of 10 years
> that FCC created Class C and Class D, at 27 MHz. Low power channelized
> sets for 27 MHz could be made small and inexpensive even with the
> technology of the late 1950s.
>
> FCC could take the band away from hams because it wasn't a ham band by
> treaty anyway. They also argued that the creation of the 15 meter ham
> band in 1954, and the gradual return of 160 to hams, meant that 11
> meters wasn't critical to ham radio.
>
> Add to that the fact that 11 meters wasn't the most-popular ham band
> anyway. Many popular rigs of the time didn't even cover the band. It
> wasn't harmonically related to the other HF/MF ham bands of the era,
> and in many areas it was full of noise from ISM users like diathermy
> machines, vacuum formers, etc. Since many other countries didn't

> allocate 11 meters to hams, there wasn't as much DX to work on 11. And
> the 1.7 MHz wide 10 meter band was right next door.
>
> Of course hams didn't like losing the band, fearing that it was a
> harbinger of things to come, but it wasn't. Over the intervening years,
> we hams got all of 160 back, and three new HF bands at 30, 17 and 12
> meters. The cb boom of the '70s came and went, and hams are still here.
>
> 73 de Jim, N2EY
>

As a former user of 11 meters, the Ham Band, this summary pretty much reflects
my memory of events. BTW, my old Multi-Elmac AH-54 [if I recall] had 11 meters
factory installed. It drifted "slighlty" during each transmission. Slightly
meaning 50 +/- KHz. I had to use crystal control to stay reasonably close to any
frequency!

```
From -3790681546764371582
X-Google-Thread: fc2a5,d9d67f7bded0f58c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!out02b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-
out.readnews.com!postnews3.readnews.com!not-for-mail
From: David George Johnson <ercoupe@direcway.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: CW copying Improvement
Date: Thu, 09 Nov 2006 08:08:36 -0500
Message-ID: <vr86l2t562mur65uvi4gq2blf0ea77cl33@4ax.com>
References: <1162817107.995131.309630@f16g2000cwb.googlegroups.com>
<12kv61n5m1lv647@corp.supernews.com> <8u6dnV4LBY8-
RdLYnZ2dnUVZ_r6dnZ2d@comcast.com>
X-Newsreader: Forte Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 82
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X-Trace:
DXC=b6^h6QgLD[I3]nc:SZn8PA`hRICh7WHaG==cYh3R;@bNJ]<UYokfXPDMjaSf\bJDoI=iaa>jS\I<Af
Y^VG>IAF^K
X-Complaints-To: abuse@corenews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7779
```

On Mon, 06 Nov 2006 19:51:47 -0500, Mike Coslo
<mremovethiscoslo@adelphia.net> wrote:

>Roy Lewallen wrote:
>> Over 30 years ago I designed and built something similar to what you're
>> describing. I ran the CW signal through a sharp audio filter, detected
>> it with a diode, and used that to key an audio oscillator (rather than

>> amplifying the original signal as you describe). It was interesting, but
>> worked only for a rock-solid signal which was simple to copy anyway. It
>> didn't take much QRN or QRM to cut holes in the output signal which made
>> copy impossible.
>>
>> The brain is an amazing signal processing mechanism. It's really hard to
>> beat. If I had a hearing disability, I'd look into various amplifying
>> and frequency shaping devices and perhaps some types of audio signal
>> processing. But in my opinion it's best to send more-or-less the
>> original signal to the brain and let it do what it's good at.
>
>   Hi Roy,
>
>   So much depends on the nature of the hearing problem. I have a lot of
>holes in my hearing, as well as a different tone of tinnitus in both
>ears. It took me over 6 months/3 hours per day to learn CW to 5 wpm. And
>it still had to be crystal clear signal.
>
>   I learned a lot of things during this time. The main thing is that my
>brain gives equal weight to all sounds, whether the CW I am trying to
>copy, or whatever happens to be around it. Turns out that the same is
>true for multiple people speaking, or one person speaking with an air
>conditioner on in the room. This is probably related to the length of
>time that I have been hard of hearing (started at 7 with a bad case of
>the mumps, then the tinnitus started at 18)
>
>> If that's
>>> not feasible, then use a digital mode that's specifically designed for
>>> easy detection with electronic circuits and let them do all the work.
>
>   Yup, I'm a big fan of PSK31.
>
>   - 73 de Mike KB3EIA -

Hi Roy and Mike,

Ten Tec made a device similar to the one Roy is describing back in the 1970's. It was called the S-20 Signalizer and I don't think that Ten Tec sold very many.   I still have mine and use it quite frequently. As Roy said, it was not for weak signal work and most everyone who bought one seemed to think it was just another filter or Q-multiplier that would help dig out weak signals.

On the contrary, the Signalizer works best when you have a strong signal and you just want to get rid of some annoying background sound, like a heterodyne or static crashes. I use mine primarily on 80 meters when there is QRN and I feed its audio to one side of my stereo headphones. The other side of the headphones goes directly to the audio from the receiver so I can hear the raw signal without any AGC action. The advantage of this arrangement is that I can turn the receiver audio down a bit lower than I usually would and still pick up those characters that I would miss completely with the signalizer. It is definitely more comfortable than listening to the raw receiver audio for a long period of time when QRN is present.

Of course, the above arrangement only works because the brain is in fact "an amazing signal processing system", and can selectively insert the weaker signal from the raw receiver audio into the stream of perfect audio coming from the Signalizer.

Mike, I might add that the product review of the Signalizer in QST said that the effect of turning it on was "like closing the door" to shut out the noise from an adjacent room. When I try to describe the effect of the Signalizer to others ("Its a re-keyer, not a filter"), I often use the very analogy that you mentioned, namely that its like being able to lower your voice when someone turns the air conditioner off or other people stop speaking in a crowded room.

You occasionally see a signalizer on e-bay, often misdescribed as a CW filter or amplified speaker. A couple of months ago one went for about fifty dollars as I recall.

-- Dave WB4JTT

From 5721004816868260706
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-sjc-07!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Date: Thu, 9 Nov 2006 08:55:06 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12l6nbch852b545@corp.supernews.com>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<1163017911.266486.104440@m7g2000cwm.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-Complaints-To: abuse@supernews.com
Lines: 23
Xref: g2news2.google.com rec.radio.amateur.antenna:21217
rec.radio.amateur.homebrew:7780 rec.radio.amateur.policy:53632 rec.radio.swap:9616

"larya" <larya@rogers.com> wrote in message news:1163017911.266486.104440@m7g2000cwm.googlegroups.com...

> Second... I also think you will find that the fcc, and in my country
> the IC, are deeply regretting the conversion of 11 meters to 'cb'.

I hope not. The FCC providing unlicensed spectrum for the masses was one of the smartest thing they ever did! Yes, it leads to all sorts of horrible operating practices, but CB and -- more contemporarily -- FRS/GMRS and WiFi had provided *huge* benefits for people (and many millions of dollars in equipment sales) nationwide. I'd hate to live in a country where there's no such thing as a license-free $20 pair of FRS-type walkie talkies or $20 WiFi cards for high-speed Internet access.

> Virtually all of our bad radio operating procedures, of all radio
> services, can all be traced back to the bad operating technique found
> in the 11 meter cb band....

I'd say they can be traced back to human nature. People were rowdy and "uncouth" in, say, taverns for thousands of years before CB came along.

---Joel

```
From -8554491035242681319
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!nntpserver.com!zeus.nntpserver.com!
hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups: 
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Date: Thu, 09 Nov 2006 12:01:53 -0500
Message-ID: <gln6l2ttl3a7h04cf9jctdvup4tm5t1s09@4ax.com>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<1163017911.266486.104440@m7g2000cwm.googlegroups.com>
<12l6nbch852b545@corp.supernews.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 31
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X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21218
```

```
rec.radio.amateur.homebrew:7781 rec.radio.amateur.policy:53633 rec.radio.swap:9617

On Thu, 9 Nov 2006 08:55:06 -0800, "Joel Kolstad"
<JKolstad71HatesSpam@yahoo.com> wrote:

>"larya" <larya@rogers.com> wrote in message
>news:1163017911.266486.104440@m7g2000cwm.googlegroups.com...
>> Second... I also think you will find that the fcc, and in my country
>> the IC, are deeply regretting the conversion of 11 meters to 'cb'.
>
>I hope not.  The FCC providing unlicensed spectrum for the masses was one of
>the smartest thing they ever did!  Yes, it leads to all sorts of horrible
>operating practices, but CB and -- more contemporarily -- FRS/GMRS and WiFi
>had provided *huge* benefits for people (and many millions of dollars in
>equipment sales) nationwide.  I'd hate to live in a country where there's no
>such thing as a license-free $20 pair of FRS-type walkie talkies or $20 WiFi
>cards for high-speed Internet access.

the bad part about what they did with CB was providing that band for
and limiting it to local comms when everyone knew it was usable for
longer range stuff this insurred folks would not have much respect for
the rules (wether they obeyed em or not
>
>> Virtually all of our bad radio operating procedures, of all radio
>> services, can all be traced back to the bad operating technique found
>> in the 11 meter cb band....
>
>I'd say they can be traced back to human nature.  People were rowdy and
>"uncouth" in, say, taverns for thousands of years before CB came along.
>
>---Joel
>
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From 9166575819221816436
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 09 Nov 2006 11:29:24 -0600
Date: Thu, 09 Nov 2006 12:29:27 -0500
From: Dave <W1MCE@comcast.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.4) Gecko/20030624
```

Netscape/7.1 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<1163017911.266486.104440@m7g2000cwm.googlegroups.com>
<12l6nbch852b545@corp.supernews.com>
In-Reply-To: <12l6nbch852b545@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <MNKdnZu_i8vp-M7YnZ2dnUVZ_qudnZ2d@comcast.com>
Lines: 17
NNTP-Posting-Host: 24.62.153.73
X-Trace: sv3-fb1Wgi62LOuVRhJ8RPqlx/
2Rci70w0ewPH3YVhK7SAwqdVw0cESOzbuQten28h5Px0FcUzkHPDOfNy3!
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6+gYH5A4fh2b2htFfX4=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.antenna:21220
rec.radio.amateur.homebrew:7782 rec.radio.amateur.policy:53634 rec.radio.swap:9618

Joel Kolstad wrote:

SNIPPED
>
> I'd say they can be traced back to human nature. People were rowdy and
> "uncouth" in, say, taverns for thousands of years before CB came along.
>
> ---Joel
>
>

I'll agree with the uncouth in the taverns part, but, disagree with the context.

CB brought the uncouth out of the tavern and onto the air.

:-)

From -4405319398421788638
X-Google-Thread: fc2a5,96beba27a98a8300
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!

nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe05.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <eisglq$c9m$1@news.onet.pl>
<1163052644.546483.182800@m73g2000cwd.googlegroups.com>
<eiuq99$k7k$1@news.onet.pl>
Subject: Re: automatic (direct reading) SWR Meter
Lines: 50
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <yZJ4h.1737$TP6.1221@newsfe05.lga>
X-Trace:
hikehalegljkcnnfkannfilpcpbbolnmpgofnhmkmcabnaldnicfceledepkikoolhlefpnpglhfdcnhfilihkbjihomcpfhejpkaddlfoepjfjnmlmlailhbpcifehbglbbcfickjagekga
NNTP-Posting-Date: Thu, 09 Nov 2006 10:56:46 MST
Date: Thu, 9 Nov 2006 12:56:42 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:7783

I haven't seen a lot of examples out there, but the project seems very simple; perhaps trivially simple.

First, you build a directional coupler -- there are a number of designs out there, but none are especially difficult. Then you rectify the voltage and perhaps amplify it. Feed the two voltages into a microcontroller that does the math and operates the display (digital of course). Analog isn't going to be so popular because you not only need a meter (generally harder to get and expensive these days), but you will need some custom meter face, and what it needs to look like won't be all that obvious.

You can get 10 bits on a microcontroller A/D pretty easily and cheaply, more bits will generally cost more, sometimes a lot more. While you don't need terrific resolution for SWR, you will if you want to measure SWR over a wide range of power levels. A lot of micros have 5 or 10 A/D's, though, so perhaps you could get cute and avoid the need for something expensive.

Not many micros have D/As, but many have PWM outputs that can be filtered and would be plenty enough resolution for an analog meter. The cool part of that is that you could have your retro instrument, and you could adjust the output to match the meter face you have.

Of course, if you aren't afraid of a little work, a graphical LCD could be made to display a meter face .. after all, it's only ones and zeroes <g> Some of these color LCDs from cell phones (pricey) are all the rage among some PIC hobbyists these days.

..

"MAc" <mac_dx@tosiewytnie.poczta.onet.pl> wrote in message

```
news:eiuq99$k7k$1@news.onet.pl...
> sailtamarack@yahoo.ca napisal(a):
>
>> You will probably get more responses if you describe what you want in
>> more detail: frequency of operation, inline or test instrument, self
>> contained or PC based, remote head, analog or digital display, cost,
>> commercial or homebrew etc.
>
>
> ;-) ANY ideas. ANY schematics, Any  The topic is "direct reading" :-)
>
> mac
>
> the best would be:
>  analogue,
>  single meter,
>  1,8-30
> of course homebrew - it's r.r.a.h group




From 4336801397873973239
X-Google-Thread: fc2a5,96beba27a98a8300
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!sn-xt-sjc-03!sn-xt-
sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: automatic (direct reading) SWR Meter
Date: Thu, 09 Nov 2006 20:24:07 -0000
Organization: Home for Obscure Mythical Beings
Message-ID: <12l73j7akilsh18@corp.supernews.com>
References: <eisglq$c9m$1@news.onet.pl>
<1163052644.546483.182800@m73g2000cwd.googlegroups.com>
<eiuq99$k7k$1@news.onet.pl> <yZJ4h.1737$TP6.1221@newsfe05.lga>
X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
X-Complaints-To: abuse@supernews.com
Lines: 68
Xref: g2news2.google.com rec.radio.amateur.homebrew:7784

>>> You will probably get more responses if you describe what you want in
>>> more detail: frequency of operation, inline or test instrument, self
>>> contained or PC based, remote head, analog or digital display, cost,
>>> commercial or homebrew etc.
>> ;-) ANY ideas. ANY schematics, Any  The topic is "direct reading" :-)

>I haven't seen a lot of examples out there, but the project seems very
>simple; perhaps trivially simple.
>
>First, you build a directional coupler -- there are a number of designs out
```

>there, but none are especially difficult. Then you rectify the voltage and
>perhaps amplify it. Feed the two voltages into a microcontroller that does
>the math and operates the display (digital of course). Analog isn't going
>to be so popular because you not only need a meter (generally harder to get
>and expensive these days), but you will need some custom meter face, and
>what it needs to look like won't be all that obvious.

Another possibility along these lines would be a little more analog-ish.

Analog Devices makes a line of neat little "log amp" ICs. Feed them a sample of RF on one pin, and you get out a DC voltage which is proportional to the log of the RF voltage. They have a wide frequency range and if I recall correctly the Vout=log(Vin) relationship holds up pretty well over several decades of power level.

Build two direction couplers, as suggested above, but without the rectifier diodes. The ARRL handbook has instructions for building directional couplers for HF out of copper pipe. For a physically smaller design (for lower power) google around for "stripline directional coupler", "monimatch", and similar terms, or go to the Boat Anchors Archive and hunt around for the manual for an old Heathkit SWR meter.

Take the directionally-coupler-sampled RF signals (forward and reverse) and run them into a pair of the ADC log-amps.

The two DC voltages which come out will be proportional to the logarithms of the forward and reverse voltages. If I remember my math correctly, this means that the difference of the two is proportional to the logarithm of the ratio of the forward and reverse voltages, and would thus be a pretty nice indication of the return loss in dB. Zero voltage difference would mean zero return loss (infinitely high SWR), and the voltage difference would increase with the return loss (lower SWR). The upper limit on the voltage difference will probably be set by the directionality limit of the directional couplers.

Take this voltage difference, run it through a voltage-to-current converter (a.k.a. a series resistor) and into an analog meter, and *bingo* you've got a direct-reading SWR meter. It'll read at the high end of the scale for a 1:1 SWR and will not deflect if the SWR is infinitely high.

It might need to be recalibrated for a proper full-scale deflection at 1:1 on any given frequency, to adjust for the directionality limits of the couplers.

Take a look at the "DEM ABPM" (Down East Microwave All Band Power Meter) at www.downeastmicrowave.com - it's a professionally kitted version of a homebrew product, which uses one of the AD logamps for frequencies from ultrasonic up through UHF, and a less-sensitive-but-higher-frequency Linear Technologies part for frequencies from VHF through microwave. Readout is through a common DC-to-LED-bargraph IC.

```
--
Dave Platt <dplatt@radagast.org>                                   AE6EO
Hosting the Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!


From -8842603825381648607
X-Google-Thread: fc2a5,96beba27a98a8300
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!news.germany.com!news.nask.pl!
news.nask.org.pl!news.cyf-kr.edu.pl!agh.edu.pl!news.agh.edu.pl!news.onet.pl!not-
for-mail
From: MAc <mac_dx@tosiewytnie.poczta.onet.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: automatic (direct reading) SWR Meter
Date: Thu, 09 Nov 2006 21:54:15 +0100
Organization: x
Lines: 11
Message-ID: <ej04hn$7mh$1@news.onet.pl>
References: <eisglq$c9m$1@news.onet.pl>
<1163052644.546483.182800@m73g2000cwd.googlegroups.com>
<eiuq99$k7k$1@news.onet.pl> <yZJ4h.1737$TP6.1221@newsfe05.lga>
<12l73j7akilsh18@corp.supernews.com>
Reply-To: mac_dx@tosiewytnie.poczta.onet.pl
NNTP-Posting-Host: pc119.pszczynska.silesianet.pl
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-2; format=flowed
Content-Transfer-Encoding: 8bit
X-Trace: news.onet.pl 1163105656 7889 84.234.115.119 (9 Nov 2006 20:54:16 GMT)
X-Complaints-To: usenet@news.onet.pl
NNTP-Posting-Date: Thu, 9 Nov 2006 20:54:16 +0000 (UTC)
X-Sender: tziRau1SlJeRbF6OI/pJQplh44CxR6pL
In-Reply-To: <12l73j7akilsh18@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7785

Dave Platt napisa�(a):

> Build two direction couplers, as suggested above, but without the
> rectifier diodes.  [cut...]

Many many thanks. I'll go this way.

Best
73
MAc
sp9mrn


From 2216141952807316547
X-Google-Thread: fc2a5,96beba27a98a8300
```

X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news4.google.com!news2.google.com!news.maxwell.syr.edu!
newsfeed.icl.net!newsfeed.fjserv.net!newsfeed.ision.net!newsfeed2.easynews.net!
ision!news-fra1.dfn.de!newsfeed.pionier.net.pl!newsfeed.silweb.pl!agh.edu.pl!
news.agh.edu.pl!news.onet.pl!not-for-mail
From: MAc <mac_dx@tosiewytnie.poczta.onet.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: automatic (direct reading) SWR Meter
Date: Thu, 09 Nov 2006 21:55:50 +0100
Organization: x
Lines: 14
Message-ID: <ej04km$7mh$2@news.onet.pl>
References: <eisglq$c9m$1@news.onet.pl>
<1163052644.546483.182800@m73g2000cwd.googlegroups.com>
<eiuq99$k7k$1@news.onet.pl> <yZJ4h.1737$TP6.1221@newsfe05.lga>
Reply-To: mac_dx@tosiewytnie.poczta.onet.pl
NNTP-Posting-Host: pc119.pszczynska.silesianet.pl
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-2; format=flowed
Content-Transfer-Encoding: 8bit
X-Trace: news.onet.pl 1163105750 7889 84.234.115.119 (9 Nov 2006 20:55:50 GMT)
X-Complaints-To: usenet@news.onet.pl
NNTP-Posting-Date: Thu, 9 Nov 2006 20:55:50 +0000 (UTC)
X-Sender: tziRau1SlJeRbF6OI/pJQplh44CxR6pL
In-Reply-To: <yZJ4h.1737$TP6.1221@newsfe05.lga>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7786

xpyttl napisa�(a):
Feed the two voltages into a microcontroller that does
> the math and operates the display (digital of course). Analog isn't going
> to be so popular because you not only need a meter (generally harder to get
> and expensive these days), but you will need some custom meter face, and
> what it needs to look like won't be all that obvious.

I was thinkink about it, but i want to do it "as much analogue as
possible" ;-)

Thank you for response

MAc
sp9mrn

From 9114854575443095393
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!tethys.csu.net!

```
nntp.csufresno.edu!sn-xt-sjc-02!sn-xt-sjc-09!sn-xt-sjc-08!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Date: Thu, 9 Nov 2006 14:02:17 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12l79baai66qgbf@corp.supernews.com>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<1163017911.266486.104440@m7g2000cwm.googlegroups.com>
<12l6nbch852b545@corp.supernews.com> <MNKdnZu_i8vp-
M7YnZ2dnUVZ_qudnZ2d@comcast.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-Complaints-To: abuse@supernews.com
Lines: 14
Xref: g2news2.google.com rec.radio.amateur.antenna:21231
rec.radio.amateur.homebrew:7787 rec.radio.amateur.policy:53638 rec.radio.swap:9619

"Dave" <W1MCE@comcast.net> wrote in message
news:MNKdnZu_i8vp-M7YnZ2dnUVZ_qudnZ2d@comcast.com...
> CB brought the uncouth out of the tavern and onto the air.

Drive by the tavern... tune past the CBers? ;-)

I suppose amateur radio is supposed to be more a high-class dining
establishment than a dinner -- suit, tie, and official FCC-approved membership
required --, although these days you wouldn't necessarily know it from
listening to the airwaves.





From -2756024868060697123
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!
newsfeed.news.ucla.edu!newsfeed.media.kyoto-u.ac.jp!Spring.edu.tw!
news.nctu.edu.tw!news.ntu.edu.tw!news.ndhu.edu.tw!not-for-mail
From: John Smith <assemblywizard@gmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
```

```
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Date: Thu, 09 Nov 2006 14:10:48 -0800
Organization: ��ߪF�ؤj�� InterNetNews site
Lines: 27
Message-ID: <ej0939$1roe$1@news.ndhu.edu.tw>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<1163017911.266486.104440@m7g2000cwm.googlegroups.com>
<12l6nbch852b545@corp.supernews.com> <MNKdnZu_i8vp-
M7YnZ2dnUVZ_qudnZ2d@comcast.com> <12l79baai66qgbf@corp.supernews.com>
NNTP-Posting-Host: 66-81-60-71.nocal.dialup.o1.com
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.ndhu.edu.tw 1163110317 61198 66.81.60.71 (9 Nov 2006 22:11:57 GMT)
X-Complaints-To: usenet@news.ndhu.edu.tw
NNTP-Posting-Date: Thu, 9 Nov 2006 22:11:57 +0000 (UTC)
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
In-Reply-To: <12l79baai66qgbf@corp.supernews.com>
Xref: g2news2.google.com rec.radio.amateur.antenna:21233
rec.radio.amateur.homebrew:7788 rec.radio.amateur.policy:53639 rec.radio.swap:9620

Joel Kolstad wrote:
> "Dave" <W1MCE@comcast.net> wrote in message
> news:MNKdnZu_i8vp-M7YnZ2dnUVZ_qudnZ2d@comcast.com...
>> CB brought the uncouth out of the tavern and onto the air.
>
> Drive by the tavern... tune past the CBers? ;-)
>
> I suppose amateur radio is supposed to be more a high-class dining
> establishment than a dinner -- suit, tie, and official FCC-approved membership
> required --, although these days you wouldn't necessarily know it from
> listening to the airwaves.
>
>
>
>

Hmmm:

You mean you can quickly tell the difference from some self-important,
self-worshiping, self-impressed, carried-away-with-oneself personality
as opposed to one considering himself/herself to being a
student-of-the-world?  And, your final implication being, "This group of
amateurs is full of the former?"

You present a most interesting observation! <in-a-contemplative-state>

JS


From 7030382042138045850
X-Google-Thread: fc2a5,96beba27a98a8300
```

X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!headwall.stanford.edu!newshub.sdsu.edu!tethys.csu.net!nntp.csufresno.edu!sn-xt-sjc-03!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: automatic (direct reading) SWR Meter
Date: Thu, 09 Nov 2006 15:00:25 -0800
Organization: EZNEC Antenna Software
Message-ID: <12l7cobp0r1ra3d@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
MIME-Version: 1.0
References: <eisglq$c9m$1@news.onet.pl>
<1163052644.546483.182800@m73g2000cwd.googlegroups.com>
<eiuq99$k7k$1@news.onet.pl> <yZJ4h.1737$TP6.1221@newsfe05.lga>
<ej04km$7mh$2@news.onet.pl>
In-Reply-To: <ej04km$7mh$2@news.onet.pl>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 10
Xref: g2news2.google.com rec.radio.amateur.homebrew:7789

MAc wrote:
>
> I was thinkink about it, but i want to do it "as much analogue as
> possible" ;-)

You'll get some good ideas from "The Tandem Match - An Accurate Directional Wattmeter" by John Grebenkemper, KA3BLO, in Jan. 1987 QST. See also corrections to the article in Jan. 1988 Technical Correspondence.

Roy Lewallen, W7EL

From 2667834173487560062
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-mail
From: N2EY@AOL.COM
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Date: 9 Nov 2006 15:14:51 -0800
Organization: http://groups.google.com
Lines: 20

```
Message-ID: <1163114091.811538.251680@b28g2000cwb.googlegroups.com>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
   <1163017911.266486.104440@m7g2000cwm.googlegroups.com>
   <12l6nbch852b545@corp.supernews.com>
   <MNKdnZu_i8vp-M7YnZ2dnUVZ_qudnZ2d@comcast.com>
   <12l79baai66qgbf@corp.supernews.com>
NNTP-Posting-Host: 64.12.116.10
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1163114097 14322 127.0.0.1 (9 Nov 2006 23:14:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 9 Nov 2006 23:14:57 +0000 (UTC)
In-Reply-To: <12l79baai66qgbf@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 Turboweb [mtc-ta091 8.4.1], HTTP/1.1 cache-mtc-
aa06.proxy.aol.com[400C740A] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=64.12.116.10;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news2.google.com rec.radio.amateur.antenna:21234
rec.radio.amateur.homebrew:7790 rec.radio.amateur.policy:53640 rec.radio.swap:9622

Joel Kolstad wrote:
> "Dave" <W1MCE@comcast.net> wrote in message
> news:MNKdnZu_i8vp-M7YnZ2dnUVZ_qudnZ2d@comcast.com...
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>
> Drive by the tavern... tune past the CBers? ;-)
>
> I suppose amateur radio is supposed to be more a high-class dining
> establishment than a dinner -- suit, tie, and official FCC-approved membership
> required --, although these days you wouldn't necessarily know it from
> listening to the airwaves.

I think it depends where you listen...

This past weekend, I was active in the November CW Sweepstakes. Made
over 400 QSOs in 74 sections (all states except Hawaii). Lots of
activity but nothing objectionable at all.

73 de Jim, N2EY




From -8102334585114712469
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: N2EY@AOL.COM
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Date: 9 Nov 2006 15:18:49 -0800
Organization: http://groups.google.com
Lines: 62
Message-ID: <1163114329.736030.120270@m7g2000cwm.googlegroups.com>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
   <12l2a6geou7ftc7@corp.supernews.com>
   <1163029387.830593.79290@m7g2000cwm.googlegroups.com>
   <g_ednVZgXbthuM7YnZ2dnUVZ_uqdnZ2d@comcast.com>
NNTP-Posting-Host: 64.12.116.10
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1163114335 32400 127.0.0.1 (9 Nov 2006 23:18:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 9 Nov 2006 23:18:55 +0000 (UTC)
In-Reply-To: <g_ednVZgXbthuM7YnZ2dnUVZ_uqdnZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 Turboweb [mtc-ta091 8.4.1], HTTP/1.1 cache-mtc-
aa06.proxy.aol.com[400C740A] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=64.12.116.10;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news2.google.com rec.radio.amateur.antenna:21235
rec.radio.amateur.homebrew:7791 rec.radio.amateur.policy:53641 rec.radio.swap:9623

Dave wrote:
> N2EY@AOL.COM wrote:
>
> SNIPPED
>
> > Some more facts:
> >
> > 11 meters was never a ham band by international treaty. FCC allowed
> > hams to use it on a shared basis with Industrial, Scientific and
> > Medical users after WW2. This was done in part as a sort of
> > compensation for hams' loss of 160 meters to LORAN after WW2.
> >
> > The Citizens' Radio Service was created by FCC in the late 1940s. The
> > original Class A and Class B services were on UHF - right  where FRS
> > and GMRS are now.
> >
> > The problem was that, in those days, the UHF radios that performed well
> > were big, heavy, expensive, power hungry and complex. Simple UHF sets
> > that were small, light, inexpensive and simple didn't perform too well.
> >
```

> >
> > The Citizen's Radio service had so few takers at the end of 10 years
> > that FCC created Class C and Class D, at 27 MHz. Low power channelized
> > sets for 27 MHz could be made small and inexpensive even with the
> > technology of the late 1950s.
> >
> > FCC could take the band away from hams because it wasn't a ham band by
> > treaty anyway. They also argued that the creation of the 15 meter ham
> > band in 1954, and the gradual return of 160 to hams, meant that 11
> > meters wasn't critical to ham radio.
> >
> > Add to that the fact that 11 meters wasn't the most-popular ham band
> > anyway. Many popular rigs of the time didn't even cover the band. It
> > wasn't harmonically related to the other HF/MF ham bands of the era,
> > and in many areas it was full of noise from ISM users like diathermy
> > machines, vacuum formers, etc. Since many other countries didn't
> > allocate 11 meters to hams, there wasn't as much DX to work on 11. And
> > the 1.7 MHz wide 10 meter band was right next door.
> >
> > Of course hams didn't like losing the band, fearing that it was a
> > harbinger of things to come, but it wasn't. Over the intervening years,
> > we hams got all of 160 back, and three new HF bands at 30, 17 and 12
> > meters. The cb boom of the '70s came and went, and hams are still here.
> >
> > 73 de Jim, N2EY

> As a former user of 11 meters, the Ham Band, this summary pretty much reflects
> my memory of events.

Thanks!

> BTW, my old Multi-Elmac AH-54 [if I recall] had 11 meters
> factory installed. It drifted "slighlty" during each transmission. Slightly
> meaning 50 +/- KHz. I had to use crystal control to stay reasonably close to any
> frequency!

I think one reason for the relative unpopularity of 11 meters with hams
was that the band was not harmonically related to other bands, meaning
crystals bought for 11 were probably not useful on any other ham band.

73 de Jim, N2EY

From -6773262609537006684
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!

```
newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
From: Slow Code <my.mail@no.spam>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<12l2a6geou7ftc7@corp.supernews.com>
<1163029387.830593.79290@m7g2000cwm.googlegroups.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 11
Message-ID: <ELO4h.4556$l25.2380@newsread4.news.pas.earthlink.net>
Date: Thu, 09 Nov 2006 23:23:16 GMT
NNTP-Posting-Host: 4.227.160.73
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1163114596 4.227.160.73 (Thu, 09 Nov
2006 15:23:16 PST)
NNTP-Posting-Date: Thu, 09 Nov 2006 15:23:16 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:21236
rec.radio.amateur.homebrew:7792 rec.radio.amateur.policy:53648 rec.radio.swap:9626
```

N2EY@AOL.COM wrote in
news:1163029387.830593.79290@m7g2000cwm.googlegroups.com:

> The cb boom of the '70s came and went, and hams are still here.
>
> 73 de Jim, N2EY

Hams are still here right up until code is eliminated.

SC

```
From 5829261711540217265
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
From: Slow Code <my.mail@no.spam>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<1163017911.266486.104440@m7g2000cwm.googlegroups.com>
<12l6nbch852b545@corp.supernews.com> <MNKdnZu_i8vp-
```

```
M7YnZ2dnUVZ_qudnZ2d@comcast.com> <12l79baai66qgbf@corp.supernews.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 17
Message-ID: <GLO4h.4557$l25.2126@newsread4.news.pas.earthlink.net>
Date: Thu, 09 Nov 2006 23:23:18 GMT
NNTP-Posting-Host: 4.227.160.73
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1163114598 4.227.160.73 (Thu, 09 Nov
2006 15:23:18 PST)
NNTP-Posting-Date: Thu, 09 Nov 2006 15:23:18 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:21237
rec.radio.amateur.homebrew:7793 rec.radio.amateur.policy:53649 rec.radio.swap:9627

"Joel Kolstad" <JKolstad71HatesSpam@yahoo.com> wrote in
news:12l79baai66qgbf@corp.supernews.com:

> "Dave" <W1MCE@comcast.net> wrote in message
> news:MNKdnZu_i8vp-M7YnZ2dnUVZ_qudnZ2d@comcast.com...
>> CB brought the uncouth out of the tavern and onto the air.
>
> Drive by the tavern... tune past the CBers? ;-)
>
> I suppose amateur radio is supposed to be more a high-class dining
> establishment than a dinner -- suit, tie, and official FCC-approved
> membership required --,


Too many amateurs now don't care if ham radio turns into the local
scarf & barf.




From -1780745420446557796
X-Google-Thread: fc2a5,96beba27a98a8300
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news4.google.com!news2.volia.net!news.germany.com!
news.nask.pl!news.nask.org.pl!news.cyf-kr.edu.pl!agh.edu.pl!news.agh.edu.pl!
news.onet.pl!not-for-mail
From: MAc <mac_dx@tosiewytnie.poczta.onet.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: automatic (direct reading) SWR Meter
Date: Fri, 10 Nov 2006 00:53:53 +0100
Organization: x
Lines: 13
Message-ID: <ej0f2h$67l$1@news.onet.pl>
References: <eisglq$c9m$1@news.onet.pl>
<1163052644.546483.182800@m73g2000cwd.googlegroups.com>
<eiuq99$k7k$1@news.onet.pl> <yZJ4h.1737$TP6.1221@newsfe05.lga>
<ej04km$7mh$2@news.onet.pl> <12l7cobp0r1ra3d@corp.supernews.com>
Reply-To: mac_dx@tosiewytnie.poczta.onet.pl
NNTP-Posting-Host: pc119.pszczynska.silesianet.pl
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 8bit
X-Trace: news.onet.pl 1163116433 6389 84.234.115.119 (9 Nov 2006 23:53:53 GMT)
X-Complaints-To: usenet@news.onet.pl
NNTP-Posting-Date: Thu, 9 Nov 2006 23:53:53 +0000 (UTC)
X-Sender: tziRau1SlJeRbF6OI/pJQplh44CxR6pL
In-Reply-To: <12l7cobp0r1ra3d@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7794

Roy Lewallen napisał(a):

> You'll get some good ideas from "The Tandem Match - An Accurate
> Directional Wattmeter" by John Grebenkemper, KA3BLO, in Jan. 1987 QST.
> See also corrections to the article in Jan. 1988 Technical Correspondence.
>

Thank You, Roy - I did't know that article. Im just reading it and
trying to understand :-)

73
MAc
sp9mrn



From -2272323332917370670
X-Google-Thread: fc2a5,41f090f79cf9b4cd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!
newsfeed.news.ucla.edu!ihnp4.ucsd.edu!sdd.hp.com!newstrans.cos.agilent.com!not-
for-mail
From: "Al Lorona" <al_lorona@agilent.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Super Glue doesn't work any more
Date: Thu, 9 Nov 2006 16:45:30 -0800
Organization: None
Lines: 26
Message-ID: <1163118766.320439@newsreg.cos.agilent.com>
References: <1162945128.879720@newsreg.cos.agilent.com>
<1162992599.838749.153980@m7g2000cwm.googlegroups.com>
NNTP-Posting-Host: newsreg.cos.agilent.com
X-Trace: newstrans.cos.agilent.com 1163119541 8140 130.29.134.111 (10 Nov 2006
00:45:41 GMT)
X-Complaints-To: usenet@newstrans.cos.agilent.com
NNTP-Posting-Date: Fri, 10 Nov 2006 00:45:41 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Cache-Post-Path: newsreg.cos.agilent.com!unknown@141.184.137.153
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:7795

Thank you all for your replies. Tom's treatise on reinforcement was well-taken on this end and is something I am going to try in the future.

The opinion seems to be that Super Glue has not really changed but that plastics have changed into a form not as easily repaired by Super Glue. However, judging from the way Super Glue used to bond my skin vs. how much less so now, I still suspect that a weakening of the formula may have taken place, perhaps in response to a lawsuit by someone who accidentally glued the palm of their hand to the sole of their shoe or something ridiculous like that. Lawyers are continually ruining products and processes for the rest of us as they search for the next target from which to extract punitive damages.

By the way, I never said what kind of failure it was; someone else assumed a fan blade had cracked. Actually, it was one of the supporting struts that had cracked. I am fairly confident that with some reinforcement a crack like this one has a very good chance of being repaired. However, I believe epoxy is better indicated in this particular case as one of the posters pointed out. Epoxy is one tough glue.

Thanks again.

Al

From 3909722752448621992
X-Google-Thread: fc2a5,96beba27a98a8300
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!news.glorb.com!cycny01.gnilink.net!
hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe05.lga.POSTED!
53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <eisglq$c9m$1@news.onet.pl>
<1163052644.546483.182800@m73g2000cwd.googlegroups.com>
<eiuq99$k7k$1@news.onet.pl> <yZJ4h.1737$TP6.1221@newsfe05.lga>
<12l73j7akilsh18@corp.supernews.com> <ej04hn$7mh$1@news.onet.pl>
Subject: Re: automatic (direct reading) SWR Meter
Lines: 30
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <86Q4h.3606$TP6.2358@newsfe05.lga>
X-Trace:
hikehalegljkcnnfkannfilpcpbbolnmlnpbnhjlkpggjmjonicfceledepkikoolhlefpnpglhfdcnhfi

lihkbjihomcpfhejpkaddlfoepjfjnaopnmjanilaefkbigolpanaadbokpicd
NNTP-Posting-Date: Thu, 09 Nov 2006 17:55:32 MST
Date: Thu, 9 Nov 2006 19:55:14 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:7796

If you're going to be doing the math anyway, analog or digital, and providing some sort of calibration mechanism, you don't need to get too weird about the directional coupler. For HF anyway, almost any old thing will work. It sort of seems a little like black magic. Just stick a couple chunks of wire next to a section of coax with the braid removed and all of a sudden a directional coupler. I think the toriod based couplers are a little more reproduceable, though.

Somebody, maybe even AD, has an RF power chip, too. Not sure of the specifics of it. Might not be too useful for an analog circuit. A lot of the cool chips these days are little bitty thing with lots of legs that you can't hardly see.

..

"MAc" <mac_dx@tosiewytnie.poczta.onet.pl> wrote in message
news:ej04hn$7mh$1@news.onet.pl...
> Dave Platt napisa�(a):
>
>> Build two direction couplers, as suggested above, but without the
>> rectifier diodes. [cut...]
>
> Many many thanks. I'll go this way.
>
> Best
> 73
> MAc
> sp9mrn

From 7047409793135129758
X-Google-Thread: fc2a5,96beba27a98a8300
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.trueband.net!
news.trueband.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 09 Nov 2006 19:22:26 -0600
From: Wes Stewart <n7ws*@*yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: automatic (direct reading) SWR Meter
Date: Thu, 09 Nov 2006 18:23:33 -0700
Message-ID: <64l7l25d48623gfr8bsa2pomvn2tumeh6m@4ax.com>
References: <eisglq$c9m$1@news.onet.pl>
<1163052644.546483.182800@m73g2000cwd.googlegroups.com>
<eiuq99$k7k$1@news.onet.pl> <yZJ4h.1737$TP6.1221@newsfe05.lga>

<ej04km$7mh$2@news.onet.pl> <12l7cobp0r1ra3d@corp.supernews.com>
X-Newsreader: Forte Free Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 16
NNTP-Posting-Host: 4.240.244.162
X-Trace: sv3-
EXwaNWaCleqWJQt0uFSqC9WSZZCBCqtIBy6kuS5bOKdGVvDCML8n8lkKISCWEzhgagJsYpfCZAIBWeF!
zAfGmIt62fu9w8Jmp+1WWX/nd120ZJolDqcZduhZP8LXMt0XrJV0c2yhFn9VUQJ3SMneZoLz0nuE!
um97sOauJuk9tBGy4YKxvkj6TktXlA==
X-Complaints-To: abuse@trueband.net
X-DMCA-Complaints-To: abuse@trueband.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7797

On Thu, 09 Nov 2006 15:00:25 -0800, Roy Lewallen <w7el@eznec.com>
wrote:

>MAc wrote:
>>
>> I was thinkink about it, but i want to do it "as much analogue as
>> possible" ;-)
>
>You'll get some good ideas from "The Tandem Match - An Accurate
>Directional Wattmeter" by John Grebenkemper, KA3BLO, in Jan. 1987 QST.
>See also corrections to the article in Jan. 1988 Technical Correspondence.

Also here:

http://n2pk.com/RLPmtr/RLPv1c.pdf

From -1306691792202451826
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: crapthon continues
Date: Thu, 09 Nov 2006 21:36:38 -0500
Message-ID: <ocp7l2poq1dfasg6tdfjpf6aa5qblf8adt@4ax.com>

```
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<1163017911.266486.104440@m7g2000cwm.googlegroups.com>
<12l6nbch852b545@corp.supernews.com> <MNKdnZu_i8vp-
M7YnZ2dnUVZ_qudnZ2d@comcast.com> <12l79baai66qgbf@corp.supernews.com>
<GLO4h.4557$l25.2126@newsread4.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 21
NNTP-Posting-Date: 10 Nov 2006 01:41:41 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21242
rec.radio.amateur.homebrew:7798 rec.radio.amateur.policy:53669 rec.radio.swap:9639

On Thu, 09 Nov 2006 23:23:18 GMT, Slow Code <my.mail@no.spam> wrote:

>"Joel Kolstad" <JKolstad71HatesSpam@yahoo.com> wrote in
>news:12l79baai66qgbf@corp.supernews.com:
>
>> "Dave" <W1MCE@comcast.net> wrote in message
>> news:MNKdnZu_i8vp-M7YnZ2dnUVZ_qudnZ2d@comcast.com...
>>> CB brought the uncouth out of the tavern and onto the air.
>>
>> Drive by the tavern... tune past the CBers? ;-)
>>
>> I suppose amateur radio is supposed to be more a high-class dining
>> establishment than a dinner -- suit, tie, and official FCC-approved
>> membership required --,
>
>
>Too many amateurs now don't care if ham radio turns into the local
>scarf & barf.

becuase many of the HF bands already sound that way and have for years
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -4059795296389232019
X-Google-Thread: fc2a5,96beba27a98a8300
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!news.glorb.com!newsfeed.pionier.net.pl!
newsfeed.gazeta.pl!news.onet.pl!not-for-mail
From: MAc <mac_dx@tosiewytnie.poczta.onet.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: automatic (direct reading) SWR Meter
Date: Fri, 10 Nov 2006 09:01:33 +0100
Organization: x
```

Lines: 16
Message-ID: <ej1bku$igb$1@news.onet.pl>
References: <eisglq$c9m$1@news.onet.pl>
<1163052644.546483.182800@m73g2000cwd.googlegroups.com>
<eiuq99$k7k$1@news.onet.pl> <yZJ4h.1737$TP6.1221@newsfe05.lga>
<12l73j7akilsh18@corp.supernews.com> <ej04hn$7mh$1@news.onet.pl>
<86Q4h.3606$TP6.2358@newsfe05.lga>
Reply-To: mac_dx@tosiewytnie.poczta.onet.pl
NNTP-Posting-Host: pc119.pszczynska.silesianet.pl
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-2; format=flowed
Content-Transfer-Encoding: 8bit
X-Trace: news.onet.pl 1163145694 18955 84.234.115.119 (10 Nov 2006 08:01:34 GMT)
X-Complaints-To: usenet@news.onet.pl
NNTP-Posting-Date: Fri, 10 Nov 2006 08:01:34 +0000 (UTC)
X-Sender: tziRau1SlJeRbF6OI/pJQplh44CxR6pL
In-Reply-To: <86Q4h.3606$TP6.2358@newsfe05.lga>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7799

xpyttl napisa�(a):
> If you're going to be doing the math anyway, analog or digital, and
> providing some sort of calibration mechanism, you don't need to get too
> weird about the directional coupler.

DC (coupler) isn't a problem for me. I've made few reflectometers (both
HF and VHF) based on homebrew couplers. I've tested toroids, pcb's and
copper tubes.

I am rather afraid (terribly afraid) about mistakes in my op-amp
mathematics ;-)

Now I'm thinking about ad 8302, 8307 and also (used in my FSM - ad8313)

MAc
sp9mrn

From 6485149396171517559
X-Google-Thread: fc2a5,96beba27a98a8300
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news2.google.com!news.germany.com!news.nask.pl!
news.nask.org.pl!news.cyf-kr.edu.pl!agh.edu.pl!news.agh.edu.pl!news.onet.pl!not-
for-mail
From: MAc <mac_dx@tosiewytnie.poczta.onet.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: automatic (direct reading) SWR Meter
Date: Fri, 10 Nov 2006 09:57:14 +0100
Organization: x
Lines: 12
Message-ID: <ej1eta$shq$1@news.onet.pl>
References: <eisglq$c9m$1@news.onet.pl>

<1163052644.546483.182800@m73g2000cwd.googlegroups.com>
<eiuq99$k7k$1@news.onet.pl> <yZJ4h.1737$TP6.1221@newsfe05.lga>
<ej04km$7mh$2@news.onet.pl> <12l7cobp0r1ra3d@corp.supernews.com>
<64l7l25d48623gfr8bsa2pomvn2tumeh6m@4ax.com>
Reply-To: mac_dx@tosiewytnie.poczta.onet.pl
NNTP-Posting-Host: pc119.pszczynska.silesianet.pl
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 8bit
X-Trace: news.onet.pl 1163149035 29242 84.234.115.119 (10 Nov 2006 08:57:15 GMT)
X-Complaints-To: usenet@news.onet.pl
NNTP-Posting-Date: Fri, 10 Nov 2006 08:57:15 +0000 (UTC)
X-Sender: tziRau1SlJeRbF6OI/pJQplh44CxR6pL
In-Reply-To: <64l7l25d48623gfr8bsa2pomvn2tumeh6m@4ax.com>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7800

Wes Stewart napisał(a):

>
> http://n2pk.com/RLPmtr/RLPv1c.pdf
>

N2PK wrote ~~"...measure return loss instead of swr..."
I think, its the best way.
I suppose (only for "comparisom" purposes) I can make a second scale on
meter face which will show swr (N2pk article figure2)

MAc

From -5763889937987613595
X-Google-Thread: fc2a5,28a3144a154337bc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-mail
From: bill.meara@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Class C amps and saturation (again)
Date: 10 Nov 2006 02:24:21 -0800
Organization: http://groups.google.com
Lines: 78
Message-ID: <1163154261.259437.38890@e3g2000cwe.googlegroups.com>
References: <1162665254.828375.182050@k70g2000cwa.googlegroups.com>
NNTP-Posting-Host: 86.141.195.80
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1163154266 17566 127.0.0.1 (10 Nov 2006 10:24:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 10 Nov 2006 10:24:26 +0000 (UTC)
In-Reply-To: <1162665254.828375.182050@k70g2000cwa.googlegroups.com>
User-Agent: G2/1.0

X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=86.141.195.80;
   posting-account=7vRsuQwAAADlh58wGAIfEFYQRw36eW7d
Xref: g2news2.google.com rec.radio.amateur.homebrew:7801

Thanks to all who responded. I think I'm starting to understand this. LTSpice helps a lot. I set up a class C amp and looked out power dissipated in the transistor vs. power dissipated in the load. The big efficiency gains that come with saturation were very apparent.

To better understand WHY this happens, I set up a spreadsheet that looked at power dissipated in a variable resistor as it swept from .1 ohms to 10 ohms. It had a fixed 10 ohm resistor in series and 10 volts DC across both of them. Yes indeed, the power disspated in the variable resistor drops off dramatically when the resistance (and hence the voltage across it) gets very low. I guess is why this happens in the saturating Class C amp, Right?

But I still have some questions. When we design a Class A amp, the familiar formula Rload = (Vcc-Ve)^2/2Pout allows us to come up with a load value that will prevent the amplifier from saturating. A load of this value will cause the voltage across the transistor (collector to emitter) to vary from zero to twice Vcc. But it won't go into saturation.

Why then do so many of the books (EMRFD, SSDRA, the W1FB books) call for the use of essentially the same formula for the load when selecting a load for Class C amps?   We're no longer worried about staying out of saturation, correct? In fact, we want to saturate. So why the same formula? In fact, it seems to me that if you have a Class C amplifier that is designed with this formula and is operating just below saturation, you can get it to saturate just by increasing the value of the load presented to the collector. Power out and efficiency immediately improves. Linearity, of course, does not.

Thanks, 73 Bill M0HBR
http://www.gadgeteer.us

On Nov 4, 6:34 pm, bill.me...@gmail.com wrote:
> Back in July I wrote:
>
> I'm reading David Rutledge's excellent "The Electronics of Radio."
> In Chapter 10 -- Power Amplifiers, he discusses Class C amps and says,
> "In addition, if we drive the transistor clear to saturation, using the
>
> transistor as a switch, the dissipated power can be greatly reduced,
> because the saturation voltage is low. This is Class C

> amplification..."
> I'd always throught that in Class C, while you'd operate the device so
> that it was cutoff during most of the cycle, but not saturated.
> Is this just a different definition of Class C?
> I checked back with SSDRA and EMRFD, and didn't see anything about
> driving Class C amps into saturation?
> What says the group? Do we saturate in Class C or not?
> --
> I've been thinking about this some more. The 1980 ARRL handbook points
> out that "Solid State power amplifiers should be operated just below
> their saturation points for best efficiency and stability." Also, the
> formula that we use to determine load resistance (Rl=Vcc^2/2Po) implies
> that we are looking for a combination of Vcc, Load resistance and power
> out that will prevent saturation.
> And wouldn't we end up with far lower harmonic content if we only clip
> one side of the wave form (at cutoff) instead of both sides (cutoff and
> saturation)?
>
> I know there are more exotic modes beyond C, but for plain old ordinary
> ham radio applications, don't we normally avoid saturation in Class C
> amps?
>
> Also, what about this business of having the efficiency improve through
> saturation "because the saturation voltage is low"   Could that be
> right?   If you put a voltage across a conductor and generate a large
> current, you can't sit back and say "Great! Power consumption across
> the conductor is low because the voltage drop across it is now
> minimal!"
>
> 73 from London
> Bill M0HBR N2CQR CU2JLhttp://www.gadgeteer.us

From -5092544994647859763
X-Google-Thread: fc2a5,96beba27a98a8300
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!
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newshosting.com!69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe07.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <eisglq$c9m$1@news.onet.pl>
<1163052644.546483.182800@m73g2000cwd.googlegroups.com>
<eiuq99$k7k$1@news.onet.pl> <yZJ4h.1737$TP6.1221@newsfe05.lga>
<12l73j7akilsh18@corp.supernews.com> <ej04hn$7mh$1@news.onet.pl>
<86Q4h.3606$TP6.2358@newsfe05.lga> <ej1bku$igb$1@news.onet.pl>
Subject: Re: automatic (direct reading) SWR Meter
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal

X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <8E%4h.1210$h56.1115@newsfe07.lga>
X-Trace: fjmkffdeidnncplekannfilpcpbbolnmhmmiankbnbkjlmddnicfceledepkikoolhlefpnpglhfdcnhcioaoccffokjlafkejpkaddlfoepjfjnkdclobmajljkajgpbpincjkllopekodc
NNTP-Posting-Date: Fri, 10 Nov 2006 07:02:44 MST
Date: Fri, 10 Nov 2006 09:02:40 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:7802

"MAc" <mac_dx@tosiewytnie.poczta.onet.pl> wrote in message
news:ej1bku$igb$1@news.onet.pl...

> I am rather afraid (terribly afraid) about mistakes in my op-amp
> mathematics ;-)

Don't be afraid ... just fudge it!

..

From 6135177712126487291
X-Google-Thread: fc2a5,28a3144a154337bc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h54g2000cwb.googlegroups.com!not-for-mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Class C amps and saturation (again)
Date: 10 Nov 2006 09:40:00 -0800
Organization: http://groups.google.com
Lines: 90
Message-ID: <1163180400.420402.25060@h54g2000cwb.googlegroups.com>
References: <1162665254.828375.182050@k70g2000cwa.googlegroups.com>
   <1163154261.259437.38890@e3g2000cwe.googlegroups.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
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X-Trace: posting.google.com 1163180406 8638 127.0.0.1 (10 Nov 2006 17:40:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 10 Nov 2006 17:40:06 +0000 (UTC)
In-Reply-To: <1163154261.259437.38890@e3g2000cwe.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.8) Gecko/20061025 Firefox/1.5.0.8,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h54g2000cwb.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7803

bill.meara@gmail.com wrote:

> Thanks to all who responded. I think I'm starting to understand this. LTSpice helps a lot. I set up a class C amp and looked out power dissipated in the transistor vs. power dissipated in the load. The big efficiency gains that come with saturation were very apparent.
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...

In Class A, the active device is conducting the entire cycle, and conducting in proportion to where you are in the cycle. Because of that, you can drive a purely resistive load--that is, a non-resonant load. Class A is used in single-ended broadband linear amplifiers, such as receiver stages, audio amplifiers, scope vertical amplifiers,
...

In Class B, each active device is conducting for half the cycle. If you use a single active device, you need a resonant tank to complete the cycle. You can also have push-pull class B where one device handles output voltages of one polarity, and the other handles output voltages of the other polarity. It is usual to bias the active devices in such a case slightly into class A, so that the nonlinearities right at the half-cycle point can be smoothed over. But class B in a single ended RF amplifier, with a resonant tank at the output, is still capable of linear performance, because you can reduce the conduction during the active half-cycle and reduce the output amplitude in proportion.

In both Class A and Class B, it's possible for the output to peak with the active device having a very low voltage across it, so that the the output peak-to-peak amplitude at that point is still two times the supply voltage, or nearly so, assuming it's a good approximation of a sine wave there. For class A and B amplifiers, though, the output amplitude may be less than that. The efficiency obviously goes toward zero as the output amplitude goes toward zero, since some conduction in the active devices is required to drive any output, and the dissipation in the active device is proportional essentially just to the current at low output swings since the voltage on the device is nearly constant; but the power to the load is proportional to the square of the current.

In Class C, the active device is hard-on for a relatively small fraction of the cycle. It always drives the output to about two times the supply voltage, peak to peak, if it's properly designed for low dissipation in the active device. But a key difference between it and class A is that the active device is conducting essentially no current except when there is only a very low voltage across it. In class A, there's current through the device at all output voltages.

So at full output in all those cases, the peak-to-peak voltage is the same, and for a given output POWER, that tells you what the effective resistive load should be at that point.

(In Class D, the voltage at the output of the active devices swings very quickly between power rails, spending most of the time at one rail or the other, and the output is varied according to the duty cycle of the rectangular waveform there. That waveform is filtered to remove the switching frequency and its harmonics. The result can be a very efficient amplifier. They are becoming common in audio applications these days.)

Clearly there's a bit more to it than that simple explanation, but it's a first approximation that may get you going...

Cheers,
Tom

From 5495559973937865175
X-Google-Thread: fc2a5,28a3144a154337bc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
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From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Class C amps and saturation (again)
Date: Fri, 10 Nov 2006 10:41:48 -0800
Organization: EZNEC Antenna Software

Message-ID: <12l9hvf1jp3d36b@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
MIME-Version: 1.0
References: <1162665254.828375.182050@k70g2000cwa.googlegroups.com>
<1163154261.259437.38890@e3g2000cwe.googlegroups.com>
<1163180400.420402.25060@h54g2000cwb.googlegroups.com>
In-Reply-To: <1163180400.420402.25060@h54g2000cwb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 15
Xref: g2news2.google.com rec.radio.amateur.homebrew:7804

K7ITM wrote:
> . . .
> In Class C, the active device is hard-on for a relatively small
> fraction of the cycle. It always drives the output to about two times
> the supply voltage, peak to peak, if it's properly designed for low
> dissipation in the active device. . .

I've designed saturating RF amplifiers of a few watts output in which
the device is on for well over half the cycle, and which have an
efficiency of around 90%. The peak-peak collector voltage is nearly 40
volts when run from a 12 volt supply. The high efficiency implies
relatively low dissipation in the active device. But perhaps this falls
outside some definitions of class C.

Roy Lewallen, W7EL

From -4427211705259450436
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X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-mail
From: "n4aeq" <tucker@conninc.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: how much can dummy load carbon resistors stand
Date: 10 Nov 2006 10:50:48 -0800
Organization: http://groups.google.com
Lines: 6
Message-ID: <1163184647.845070.101830@h48g2000cwc.googlegroups.com>
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X-Trace: posting.google.com 1163184653 11924 127.0.0.1 (10 Nov 2006 18:50:53 GMT)
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Complaints-To: groups-abuse@google.com
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   posting-account=OxP90AwAAADMku3DN_7kLIMyWO_79wJO
Xref: g2news2.google.com rec.radio.amateur.homebrew:7805

I need to build a portable load to carry on the roof or tower to check transmission lines, I know for
intermitten use a resistor will stand alot more then its rated for so does anyone know the factor
for intermitten use?

From -7552814125543754706
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i42g2000cwa.googlegroups.com!not-for-mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW to FM Remodulator?
Date: 10 Nov 2006 11:15:04 -0800
Organization: http://groups.google.com
Lines: 50
Message-ID: <1163186104.101525.243960@i42g2000cwa.googlegroups.com>
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
   <1162556859.782446.301680@h48g2000cwc.googlegroups.com>
   <Xns98741B7E1D4AENoemailadr@208.49.80.251>
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X-Trace: posting.google.com 1163186110 15756 127.0.0.1 (10 Nov 2006 19:15:10 GMT)
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In-Reply-To: <Xns98741B7E1D4AENoemailadr@208.49.80.251>
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Injection-Info: i42g2000cwa.googlegroups.com; posting-host=66.19.112.37;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:7806

Mike Monett wrote:
> "AndyS" <andysharpe@juno.com> wrote:
>
>   > My ear copy can still pick those out, and many of the "processors"
>   > can't deal with noisy sigs in that region. They tend to fall apart
>   > when anything below tangential sensitivity is received.
>
>   > Andy W4OAH in Eureka, Texas

>
>   Leif Asbrink, SM5BSZ, has some remarkable plots of moonbounce using
>   25W emitted from single 10 element yagi:
>
>   http://www.nitehawk.com/sm5bsz/kk7ka/kk7ka.htm
>
>   He gives his personal experience listening to weak Morse code here:
>
>   http://www.nitehawk.com/sm5bsz/weakcom.htm
>
>   His entire site is packed with very useful information on receiving
>   weak signals, including his Linrad setup:
>
>   http://www.nitehawk.com/sm5bsz/weakcom.htm
>
>   Well worth exploring if you haven't had the chance.
>
>   Regards,
>
>   Mike Monett
>
>   Antiviral, Antibacterial Silver Solution:
>   http://silversol.freewebpage.org/index.htm
>   SPICE Analysis of Crystal Oscillators:
>   http://silversol.freewebpage.org/spice/xtal/clapp.htm
>   Noise-Rejecting Wideband Sampler:
>   http://www3.sympatico.ca/add.automation/sampler/intro.htm

Andy comments:\

Mike,
The comments you have attributed to me in the above post
are in error. You mistakenly copied another's comments and
put my name in front of it....... Not a problem for me,but
I get into enough trouble on my own without having to catch
any hell for other people... (grin)

Andy W4OAH

From -52891793228999580
X-Google-Thread: fc2a5,a67a9fcdb82fcbb6
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-xfer.nntp.sonic.net!
news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: how much can dummy load carbon resistors stand

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Date: 10 Nov 2006 22:04:09 GMT
Organization: The National Capital FreeNet
Lines: 14
Message-ID: <ej2t0p$nt7$1@theodyn.ncf.ca>
References: <1163184647.845070.101830@h48g2000cwc.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1163196249 24487 134.117.136.48 (10 Nov 2006 22:04:09 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 10 Nov 2006 22:04:09 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7807

"n4aeq" (tucker@conninc.com) writes:
>  I need to build a portable load to carry on the roof or tower to check
> transmission lines,  I know for
> intermitten use a resistor will stand alot more then its rated for so
> does anyone know the factor
> for intermitten use?
>
But if you're just checking transmission lines, wouldn't it make sense
to get by with a small dummy load, and just reduce power into the
transmission lines?

  Michael  VE2BVW





From 508063600564627232
X-Google-Thread: fc2a5,a67a9fcdb82fcbb6
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: how much can dummy load carbon resistors stand
Date: Fri, 10 Nov 2006 16:10:41 -0800
Message-ID: <i35al2tehqonuticp96hr8a59or0ghhd8t@4ax.com>
References: <1163184647.845070.101830@h48g2000cwc.googlegroups.com>
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X-Trace: newsfeed.slurp.net 1163190988 66.52.61.96 (10 Nov 2006 15:36:28 -0500)
Lines: 18
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news.bellsouth.net!hwmnpeer01.phx!news.highwinds-media.com!newsfeed.slurp.net!not-
for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:7808
```

Solder a three watt 50 ohm non-inductive resistor directly into a PL-259 and there you are. Use a double-female barrel adaptor as a gender changer when needed. That will stand five watts momentarily, or better yet, get an SWR analyzer such as the MFJ units. They are much handier than an SWR bridge anyway. I wouldn't be without one.

73, Bill W6WRT

------------ ORIGINAL MESSAGE ------------

On 10 Nov 2006 10:50:48 -0800, "n4aeq" <tucker@conninc.com> wrote:

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>transmission lines, I know for
>intermitten use a resistor will stand alot more then its rated for so
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>for intermitten use?

```
From 8755381564249029839
X-Google-Thread: 10bf43,8f0a65310a772163,start
X-Google-Thread: fc2a5,8f0a65310a772163,start
X-Google-Thread: 114aac,283666946a01996c
X-Google-Thread: 1109af,8f0a65310a772163,start
X-Google-Attributes: gid10bf43,gidfc2a5,gid114aac,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.homebrew,rec.radio.shortwave,rec.radio.
swap
Subject: Re: Radio Shack store robbed
From: Slow Code <my.mail@no.spam>
References: <18671-4554BFEE-81@storefull-3253.bay.webtv.net>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 16
Message-ID: <Y795h.5473$ig4.4880@newsread2.news.pas.earthlink.net>
Date: Sat, 11 Nov 2006 00:51:04 GMT
NNTP-Posting-Host: 4.254.227.123
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1163206264 4.254.227.123 (Fri, 10 Nov
2006 16:51:04 PST)
NNTP-Posting-Date: Fri, 10 Nov 2006 16:51:04 PST
Xref: g2news2.google.com rec.radio.amateur.policy:53753
rec.radio.amateur.homebrew:7809 rec.radio.shortwave:58399 rec.radio.swap:9651
```

cuhulin@webtv.net wrote in
news:18671-4554BFEE-81@storefull-3253.bay.webtv.net:

> It happened this morning at the Radio Shack store at Highway 18 and

> Greenway Drive here in Jackson,Mississippi,according to WLBT mid day tv
> news.That store is in the strip mall next to the Wal Mart store where I
> do my food shopping,a mile and a half South of my doggy's couch.Two guys
> walked into the store and one of them had a pistol.They demanded money
> and then they got away.They will be caught sooner or later.
> cuhulin

It's good the robbers didn't go in and ask for technical assistance, they would have come out empty handed.

SC

From -8720969371638680990
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!feed.xsnews.nl!feeder.xsnews.nl!feeder3.cambrium.nl!feed.tweaknews.nl!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-08!sn-post-ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "john graesser" <graesser@tca.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Common courtesy
Date: Fri, 10 Nov 2006 19:56:05 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12laaq5h6u2hr98@corp.supernews.com>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
X-Complaints-To: abuse@supernews.com
Lines: 27
Xref: g2news2.google.com rec.radio.amateur.homebrew:7810

"Slow Code" <my.mail@no.spam> wrote in message
news:lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net...
> If all the seats are taken at a club meeting and a 20wpm code tested Extra
> is standing, a no-code ham should give their seat to the Extra and sit
> on the floor. After saluting of course.
>
> SC

Removed all the crossposting, since only retards crosspost.

I am a slow code extra, and proud of it. However, if every ham that passed the tests 40-50 years ago was retested now, how many would still pass? I know one local ham that has been active since the 1950's and still is an advanced, he can repair or build all his own gear, but still isn't able to pass the extra exam. Put a current extra exam in front of most extras, I

don't think they would pass. I would be in favor of periodic retesting, just
like driver license vision testing, every 10-20 years you have to repass the
level of test for the license you currently hold.

And I am not afraid to use my real name and callsign or to build my own
equipment since that is what this group is really about inspite of the
misguided attempts of trolls to disrupt it.
thanks, John.
KC5DWD

From 215499845214509947
X-Google-Thread: fc2a5,2ea566d6e8897032,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!news1.optus.net.au!optus!
newsfeeder.syd.optusnet.com.au!news.optusnet.com.au!not-for-mail
From: "Joe" <.>
Newsgroups: rec.radio.amateur.homebrew
Subject: Tektronix 2215A
Date: Mon, 6 Nov 2006 23:03:16 +1100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Lines: 9
Message-ID: <454f2486$0$3073$afc38c87@news.optusnet.com.au>
NNTP-Posting-Host: 220.239.195.55
X-Trace: 1162814598 3073 220.239.195.55
Xref: g2news2.google.com rec.radio.amateur.homebrew:7711

Hello all
I am looking for a schematic on the above oscilloscope. The thing blows the
fuse at switch on. Any advice would also be appreciated. I know there are
many of these old units out there
Thanks in advance
Joe
vk3bki

From 6023273534954848524
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit

```
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!uns-out.usenetserver.com!
news.usenetserver.com!pc02.usenetserver.com!VERMONTEL.NET-a2kHrUvQQWlmc!not-for-
mail
From: X-rated Vermonter <k1xvnospam@arrl.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
Date: Mon, 06 Nov 2006 07:26:11 -0500
Reply-To: k1xvnospam@arrl.net
Message-ID: <r7auk2pnd9f3curn9d4kcgs9d9l79hn878@4ax.com>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
<s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
<lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
<1162796328.142616.84010@e3g2000cwe.googlegroups.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Organization: VTel Internet NNTP
Cache-Post-Path: r2d2.vermontel.net!unknown@vtelinet-209-134-36-80.vermontel.net
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
X-Complaints-To: abuse@usenetserver.com
Lines: 17
X-Trace: 54b4b454f29e17de7c94b30914
Xref: g2news2.google.com rec.radio.amateur.antenna:21070
rec.radio.amateur.homebrew:7712 rec.radio.amateur.policy:53160
rec.radio.scanner:7606 rec.radio.swap:9510

On 5 Nov 2006 22:58:48 -0800, "K4YZ" <k4yz@aol.com> wrote:

>X-rated Vermonter wrote:
>
>> It just so happens that I passed a 20 wpm code test and I think you
>> are a bozo.
>
>    Where's the evidence?
>
>Steve, K4YZ
++++++++++

http://wireless2.fcc.gov/UlsApp/UlsSearch/license.jsp?licKey=236071

In May 1997 20 wpm was still in effect.

K1XV the X-rated Vermonter


From 7350113495961910038
X-Google-Thread: fc2a5,d9d67f7bded0f58c,start
X-Google-Attributes: gidfc2a5,public
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f16g2000cwb.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: CW copying Improvement
Date: 6 Nov 2006 04:45:08 -0800
Organization: http://groups.google.com
Lines: 44
Message-ID: <1162817107.995131.309630@f16g2000cwb.googlegroups.com>
NNTP-Posting-Host: 66.19.113.143
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162817111 1531 127.0.0.1 (6 Nov 2006 12:45:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 6 Nov 2006 12:45:11 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f16g2000cwb.googlegroups.com; posting-host=66.19.113.143;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:7713
```

Andy writes:

A recent thread from a ham with a hearing disability who was looking for a way to make CW easier to copy caused me to think about something I had seen that might help. I will try to describe it...

The audio output was applied to an amplifier that had an artificial "threshold", like putting diodes in SERIES with the input so that no signal would reach the amplifier until the total level was high enough to break down the diodes .... only the threshold was more precise and not "soft"............. easy to do with op amps.....

The audio was adjusted to the point where NO signal would not produce and output and YES signal would simply amplify and cause an output...

..... much like adjusting a relay to click in at a given threshold....

Note that this does NOT increase the SNR because that has to be measure with a signal, and when the signal is present the noise is riding on top of it......

However it would produce more "abrupt" contrast between YES signal and NO signal..... much like the FM quieting phenomena that one of the posters in CW Remodulator referred to.......

   It might improve the ability to copy for someone with a
hearing disability..

   I haven't tried it, but I can't see why it wouldn't help.

If a reader has built it up, or something similar, I would
appreciate hearing about it..... or possibly where the
original article describing it appeared.... I'm sure it was
either the ARRL handbook or an old issues of QST....

    Just wanted to throw this in the mix. Good luck.

             Andy   W4OAH

```
From -3552869461838467580
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-
mail
From: k4yz_03@yahoo.com
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
Date: 6 Nov 2006 04:47:07 -0800
Organization: http://groups.google.com
Lines: 26
Message-ID: <1162817227.178370.22540@b28g2000cwb.googlegroups.com>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
   <991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
   <s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
   <lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
   <1162796328.142616.84010@e3g2000cwe.googlegroups.com>
   <r7auk2pnd9f3curn9d4kcgs9d9l79hn878@4ax.com>
NNTP-Posting-Host: 152.163.100.131
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162817232 1790 127.0.0.1 (6 Nov 2006 12:47:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 6 Nov 2006 12:47:12 +0000 (UTC)
In-Reply-To: <r7auk2pnd9f3curn9d4kcgs9d9l79hn878@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 Turboweb
```

```
[rtc-ta093 8.4.1], HTTP/1.1 cache-rtc-ac02.proxy.aol.com[98A36483] (Traffic-
Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=152.163.100.131;
   posting-account=6GKb5g0AAAC9SiiQOBe6zWMuxYQrzWTb
Xref: g2news2.google.com rec.radio.amateur.antenna:21071
rec.radio.amateur.homebrew:7714 rec.radio.amateur.policy:53164
rec.radio.scanner:7607 rec.radio.swap:9511


X-rated Vermonter wrote:
> On 5 Nov 2006 22:58:48 -0800, "K4YZ" <k4yz@aol.com> wrote:
>
> >X-rated Vermonter wrote:
> >
> >> It just so happens that I passed a 20 wpm code test and I think you
> >> are a bozo.
> >
> >    Where's the evidence?
> >
> >Steve, K4YZ
> ++++++++++
>
> http://wireless2.fcc.gov/UlsApp/UlsSearch/license.jsp?licKey=236071
>
> In May 1997 20 wpm was still in effect.
>
> K1XV the X-rated Vermonter

    No...Where's the evidence of Slow Code being a bozo...?!?!

    (And I passed the 20WPM when I still had to send, too...)

Steve, K4YZ



From 3978896470579165143
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
Date: 6 Nov 2006 04:51:46 -0800
```

Organization: http://groups.google.com
Lines: 29
Message-ID: <1162817506.291816.175840@h48g2000cwc.googlegroups.com>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
NNTP-Posting-Host: 66.19.113.143
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162817512 2538 127.0.0.1 (6 Nov 2006 12:51:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 6 Nov 2006 12:51:52 +0000 (UTC)
In-Reply-To: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h48g2000cwc.googlegroups.com; posting-host=66.19.113.143;
posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.antenna:21073
rec.radio.amateur.homebrew:7715 rec.radio.amateur.policy:53165
rec.radio.scanner:7608 rec.radio.swap:9512

Slow Code wrote:
> If all the seats are taken at a club meeting and a 20wpm code tested Extra
> is standing, a no-code ham should give their seat to the Extra and sit
> on the floor. After saluting of course.
>
> SC

Andy writes:

A FINE idea. And if the Extra needs to go to the restroom for some reason, the no-code should accompany him with a roll of tissue and assist in His endeavors.......

It's innovative ideas like yours that bring inspiration and, dare I say it, PRIDE to those who have joined the ranks of Amateur Radio. And I am shocked, I tell you, shocked, at the attempts of our members to discredit what is obviously a very inventive personality.....

There's no doubt in my mind that you could be another "Larry the Cable Guy" if you set your mind to it.   The world has far too many Einsteins and not nearly enough Howard Deans, and you might have a ready made niche.....

No one here thinks more highly of you than I ,

Andy

From 3811318768109747674

```
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
208.49.83.154.MISMATCH!uns-out.usenetserver.com!news.usenetserver.com!
pc03.usenetserver.com!VERMONTEL.NET-a2kHrUvQQWlmc!not-for-mail
From: X-rated Vermonter <k1xvnospam@arrl.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
Date: Mon, 06 Nov 2006 08:42:10 -0500
Reply-To: k1xvnospam@arrl.net
Message-ID: <pleuk2dkp1h6fbqnbe3kv6f3n5vt2qm9b4@4ax.com>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
<s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
<lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
<1162796328.142616.84010@e3g2000cwe.googlegroups.com>
<r7auk2pnd9f3curn9d4kcgs9d9l79hn878@4ax.com>
<1162817227.178370.22540@b28g2000cwb.googlegroups.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Organization: VTel Internet NNTP
Cache-Post-Path: r2d2.vermontel.net!unknown@vtelinet-209-134-36-80.vermontel.net
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
X-Complaints-To: abuse@usenetserver.com
Lines: 31
X-Trace: d8176454f3baf7de7c94b08824
Xref: g2news2.google.com rec.radio.amateur.antenna:21076
rec.radio.amateur.homebrew:7716 rec.radio.amateur.policy:53166
rec.radio.scanner:7609 rec.radio.swap:9513
```

On 6 Nov 2006 04:47:07 -0800, k4yz_03@yahoo.com wrote:

```
>
>X-rated Vermonter wrote:
>> On 5 Nov 2006 22:58:48 -0800, "K4YZ" <k4yz@aol.com> wrote:
>>
>> >X-rated Vermonter wrote:
>> >
>> >> It just so happens that I passed a 20 wpm code test and I think you
>> >> are a bozo.
>> >
>> >    Where's the evidence?
>> >
>> >Steve, K4YZ
>> ++++++++++
>>
>> http://wireless2.fcc.gov/UlsApp/UlsSearch/license.jsp?licKey=236071
>>
>> In May 1997 20 wpm was still in effect.
>>
>> K1XV the X-rated Vermonter
>
>    No...Where's the evidence of Slow Code being a bozo...?!?!
>
>    (And I passed the 20WPM when I still had to send, too...)
>
>Steve, K4YZ

++++++++++++
I think a review of Slow Code's many posts on this and related issues
make it self evident.


From -8485905100282248211
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!news.glorb.com!
newsgate.cistron.nl!xs4all!news2.euro.net!66.150.105.54.MISMATCH!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: sc conitues crapathon
Date: Mon, 06 Nov 2006 12:09:48 -0500
Message-ID: <f1ruk2touge81hsnqjrrahlslaigvqnsg0@4ax.com>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
<s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
<lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
<1162796328.142616.84010@e3g2000cwe.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 16
NNTP-Posting-Date: 06 Nov 2006 16:14:49 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21080
rec.radio.amateur.homebrew:7717 rec.radio.amateur.policy:53203
rec.radio.scanner:7610 rec.radio.swap:9519
```

```
On 5 Nov 2006 22:58:48 -0800, "K4YZ" <k4yz@aol.com> wrote:

>X-rated Vermonter wrote:
>
>> It just so happens that I passed a 20 wpm code test and I think you
>> are a bozo.
>
>    Where's the evidence?
where the eveidence you passed one

indeed based on the standard reasoning of the PrOcders one must
conclude that you are the result of a code waiver or some other form
of cheating
>
>Steve, K4YZ
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From 1858156679132269040
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
Date: Mon, 06 Nov 2006 12:10:35 -0500
Message-ID: <f3ruk2134dup0jhl4eiau0v3bik812lsif@4ax.com>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
<s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
<lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
<1162796328.142616.84010@e3g2000cwe.googlegroups.com>
<r7auk2pnd9f3curn9d4kcgs9d9l79hn878@4ax.com>
<1162817227.178370.22540@b28g2000cwb.googlegroups.com>
<pleuk2dkp1h6fbqnbe3kv6f3n5vt2qm9b4@4ax.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 36
```

```
NNTP-Posting-Date: 06 Nov 2006 16:15:35 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21081
rec.radio.amateur.homebrew:7718 rec.radio.amateur.policy:53204
rec.radio.scanner:7611 rec.radio.swap:9520

On Mon, 06 Nov 2006 08:42:10 -0500, X-rated Vermonter
<k1xvnospam@arrl.net> wrote:

>On 6 Nov 2006 04:47:07 -0800, k4yz_03@yahoo.com wrote:
>
>>
>>X-rated Vermonter wrote:
>>> On 5 Nov 2006 22:58:48 -0800, "K4YZ" <k4yz@aol.com> wrote:
>>>
>>> >X-rated Vermonter wrote:
>>> >
>>> >> It just so happens that I passed a 20 wpm code test and I think you
>>> >> are a bozo.
>>> >
>>> >    Where's the evidence?
>>> >
>>> >Steve, K4YZ
>>> ++++++++++
>>>
>>> http://wireless2.fcc.gov/UlsApp/UlsSearch/license.jsp?licKey=236071
>>>
>>> In May 1997 20 wpm was still in effect.
>>>
>>> K1XV the X-rated Vermonter
>>
>>    No...Where's the evidence of Slow Code being a bozo...?!?!
>>
>>    (And I passed the 20WPM when I still had to send, too...)
>>
>>Steve, K4YZ
>
>++++++++++++
>I think a review of Slow Code's many posts on this and related issues
>make it self evident.
exchanges like this make the notion SC is K4YZ look awfully likely
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From 2063324793115737620
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
```

```
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr29.news.prodigy.net.POSTED!af499550!not-for-
mail
From: "kd5sak" <kd5sak@sbcglobal.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
<s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
<lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
<1162796328.142616.84010@e3g2000cwe.googlegroups.com>
<r7auk2pnd9f3curn9d4kcgs9d9l79hn878@4ax.com>
<1162817227.178370.22540@b28g2000cwb.googlegroups.com>
<pleuk2dkp1h6fbqnbe3kv6f3n5vt2qm9b4@4ax.com>
<f3ruk2134dup0jhl4eiau0v3bik812lsif@4ax.com>
Subject: Re: Common courtesy
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <I5K3h.5831$9v5.448@newssvr29.news.prodigy.net>
NNTP-Posting-Host: 68.92.113.75
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr29.news.prodigy.net 1162833384 ST000 68.92.113.75 (Mon, 06 Nov
2006 12:16:24 EST)
NNTP-Posting-Date: Mon, 06 Nov 2006 12:16:24 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
Q[R_PJSCTS@EBT\S]JKROFXBWR\HPCTL@XT^OBPLAH[\BTUCCNSKQFCY@TXDX_WHSVB]ZEJLSNY\^J[CUV
SA_QLFC^RQHUPH[P[NRWCCMLSNPOD_ESALHUK@TDFUZHBLJ\XGKL^NXA\EVHSP[D_C^B_^JCX^W]CHBAX]
POG@SSAZQ\LE[DCNMUPG_VSC@VJM
Date: Mon, 06 Nov 2006 17:16:24 GMT
Xref: g2news2.google.com rec.radio.amateur.antenna:21082
rec.radio.amateur.homebrew:7719 rec.radio.amateur.policy:53214
rec.radio.scanner:7613 rec.radio.swap:9521
```

```
<Mark@kb9rqz.aprs> wrote in message
news:f3ruk2134dup0jhl4eiau0v3bik812lsif@4ax.com...
> On Mon, 06 Nov 2006 08:42:10 -0500, X-rated Vermonter
> <k1xvnospam@arrl.net> wrote:
>
>>
>>>    No...Where's the evidence of Slow Code being a bozo...?!?!
>>>
>>>    (And I passed the 20WPM when I still had to send, too...)
```

```
>>>
>>>Steve, K4YZ
>>
>>++++++++++++
>>I think a review of Slow Code's many posts on this and related issues
>>make it self evident.
> exchanges like this make the notion SC is K4YZ look awfully likely

Prototypical example of the old saying, "A Legend In His Own Mind".

Harold
KD5SAK
```

```
From 4541023341795308l7
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!newshub.sdsu.edu!
nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
Date: Mon, 06 Nov 2006 12:33:35 -0500
Message-ID: <3esuk2dcb1sl3koct13tdh5olo79t546nl@4ax.com>
References: <991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
<s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
<lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
<1162796328.142616.84010@e3g2000cwe.googlegroups.com>
<r7auk2pnd9f3curn9d4kcgs9d9l79hn878@4ax.com>
<1162817227.178370.22540@b28g2000cwb.googlegroups.com>
<pleuk2dkp1h6fbqnbe3kv6f3n5vt2qm9b4@4ax.com>
<f3ruk2134dup0jhl4eiau0v3bik812lsif@4ax.com>
<I5K3h.5831$9v5.448@newssvr29.news.prodigy.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 30
NNTP-Posting-Date: 06 Nov 2006 16:38:35 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21086
rec.radio.amateur.homebrew:7720 rec.radio.amateur.policy:53232
rec.radio.scanner:7614 rec.radio.swap:9523
```

```
On Mon, 06 Nov 2006 17:16:24 GMT, "kd5sak" <kd5sak@sbcglobal.net>
wrote:

>
><Mark@kb9rqz.aprs> wrote in message
>news:f3ruk2134dup0jhl4eiau0v3bik812lsif@4ax.com...
>> On Mon, 06 Nov 2006 08:42:10 -0500, X-rated Vermonter
>> <k1xvnospam@arrl.net> wrote:
>>
>>>
>>>>    No...Where's the evidence of Slow Code being a bozo...?!?!
>>>>
>>>>    (And I passed the 20WPM when I still had to send, too...)
>>>>
>>>>Steve, K4YZ
>>>
>>>++++++++++++
>>>I think a review of Slow Code's many posts on this and related issues
>>>make it self evident.
>> exchanges like this make the notion SC is K4YZ look awfully likely
>
>Prototypical example of the old saying, "A Legend In His Own Mind".
>
>Harold
>KD5SAK
>
indeed and with the annymouse he is not vulerable to attacks himself
but if you poke at his sockpuppets long enough he come and explodes
all over the NG
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From -4794680495966944794
X-Google-Thread: fc2a5,2ea566d6e8897032
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.t-com.hr!
newsfeed.CARNet.hr!not-for-mail
From: "mtech" <marin.zorica/REMOVE/@zd.t-com.hr>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tektronix 2215A
Date: Mon, 6 Nov 2006 20:35:26 +0100
Organization: CARNet, Croatia
Lines: 18
Message-ID: <eio2p8$960$1@news1.carnet.hr>
References: <454f2486$0$3073$afc38c87@news.optusnet.com.au>
NNTP-Posting-Host: cmung5609.cmu.carnet.hr
X-Trace: news1.carnet.hr 1162841704 9408 193.198.150.21 (6 Nov 2006 19:35:04 GMT)
```

X-Complaints-To: abuse@CARNet.hr
NNTP-Posting-Date: Mon, 6 Nov 2006 19:35:04 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2670
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2670
X-RFC2646: Format=Flowed; Original
Xref: g2news2.google.com rec.radio.amateur.homebrew:7721

Try to look at greatz rectifier and smoothing capacitors first, because if one of this is short-cicuted thay fuse gonna blow!

"Joe" <.> wrote in message news:454f2486$0$3073$afc38c87@news.optusnet.com.au...
> Hello all
> I am looking for a schematic on the above oscilloscope. The thing blows
> the
> fuse at switch on. Any advice would also be appreciated. I know there are
> many of these old units out there
> Thanks in advance
> Joe
> vk3bki
>
>

From 441565989524409687
X-Google-Thread: fc2a5,d9d67f7bded0f58c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!feeder.news-service.com!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-05!sn-ams!sn-feed-ams-03!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW copying Improvement
Date: Mon, 06 Nov 2006 12:16:50 -0800
Organization: EZNEC Antenna Software
Message-ID: <12kv61n5m1lv647@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <1162817107.995131.309630@f16g2000cwb.googlegroups.com>
In-Reply-To: <1162817107.995131.309630@f16g2000cwb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 63
Xref: g2news2.google.com rec.radio.amateur.homebrew:7722

Over 30 years ago I designed and built something similar to what you're describing. I ran the CW signal through a sharp audio filter, detected it with a diode, and used that to key an audio oscillator (rather than amplifying the original signal as you describe). It was interesting, but worked only for a rock-solid signal which was simple to copy anyway. It didn't take much QRN or QRM to cut holes in the output signal which made copy impossible.

The brain is an amazing signal processing mechanism. It's really hard to beat. If I had a hearing disability, I'd look into various amplifying and frequency shaping devices and perhaps some types of audio signal processing. But in my opinion it's best to send more-or-less the original signal to the brain and let it do what it's good at. If that's not feasible, then use a digital mode that's specifically designed for easy detection with electronic circuits and let them do all the work.

Roy Lewallen, W7EL

AndyS wrote:
> Andy writes:
>
> A recent thread from a ham with a hearing disability who was
> looking for a way to make CW easier to copy caused me to
> think about something I had seen that might help. I will try
> to describe it...
>
> The audio output was applied to an amplifier that had
> an artificial "threshold", like putting diodes in SERIES with
> the input so that no signal would reach the amplifier until
> the total level was high enough to break down the diodes
> .... only the threshold was more precise and not
> "soft"............. easy to do with op amps.....
>
> The audio was adjusted to the point where NO signal
> would not produce and output and YES signal would
> simply amplify and cause an output...
>
> ..... much like adjusting a relay to click in at a given
> threshold....
>
> Note that this does NOT increase the SNR because that
> has to be measure with a signal, and when the signal is
> present the noise is riding on top of it......
>
> However it would produce more "abrupt" contrast between
> YES signal and NO signal..... much like the FM quieting
> phenomena that one of the posters in CW Remodulator
> referred to.......
>
> It might improve the ability to copy for someone with a
> hearing disability..
>
> I haven't tried it, but I can't see why it wouldn't help.
>

```
> If a reader has built it up, or something similar, I would
> appreciate hearing about it..... or possibly where the
> original article describing it appeared.... I'm sure it was
> either the ARRL handbook or an old issues of QST....
>
>     Just wanted to throw this in the mix.  Good luck.
>
>              Andy   W4OAH
>


From -6450360605539539846
X-Google-Thread: fc2a5,d9d67f7bded0f58c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 06 Nov 2006 18:51:47 -0600
Date: Mon, 06 Nov 2006 19:51:47 -0500
From: Mike Coslo <mremovethiscoslo@adelphia.net>
User-Agent: Mozilla Thunderbird 1.0.2 (Windows/20050317)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW copying Improvement
References: <1162817107.995131.309630@f16g2000cwb.googlegroups.com>
<12kv61n5m1lv647@corp.supernews.com>
In-Reply-To: <12kv61n5m1lv647@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <8u6dnV4LBY8-RdLYnZ2dnUVZ_r6dnZ2d@comcast.com>
Lines: 37
NNTP-Posting-Host: 71.58.71.232
X-Trace: sv3-0QEQgwuJSf96Z0CojcV4WjBIahqyxqdjXPPxnkSLC53NJJnGrB0hpbI9vfX7oYVqT5aS/
8RicCYiPni!lA2WullmDEv/8Qjw59lm+uR5lxg/
Np2Yi5pLbkq5naJI2y5LgzR34+SmqgNG6eZFe5yKSxXDRgVg!Hba4EZtzWw==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7723

Roy Lewallen wrote:
> Over 30 years ago I designed and built something similar to what you're
> describing. I ran the CW signal through a sharp audio filter, detected
> it with a diode, and used that to key an audio oscillator (rather than
> amplifying the original signal as you describe). It was interesting, but
> worked only for a rock-solid signal which was simple to copy anyway. It
> didn't take much QRN or QRM to cut holes in the output signal which made
> copy impossible.
```

>
> The brain is an amazing signal processing mechanism. It's really hard to
> beat. If I had a hearing disability, I'd look into various amplifying
> and frequency shaping devices and perhaps some types of audio signal
> processing. But in my opinion it's best to send more-or-less the
> original signal to the brain and let it do what it's good at.

Hi Roy,

So much depends on the nature of the hearing problem. I have a lot of holes in my hearing, as well as a different tone of tinnitus in both ears. It took me over 6 months/3 hours per day to learn CW to 5 wpm. And it still had to be crystal clear signal.

I learned a lot of things during this time. The main thing is that my brain gives equal weight to all sounds, whether the CW I am trying to copy, or whatever happens to be around it. Turns out that the same is true for multiple people speaking, or one person speaking with an air conditioner on in the room. This is probably related to the length of time that I have been hard of hearing (started at 7 with a bad case of the mumps, then the tinnitus started at 18)

> If that's
>> not feasible, then use a digital mode that's specifically designed for
>> easy detection with electronic circuits and let them do all the work.

Yup, I'm a big fan of PSK31.

- 73 de Mike KB3EIA -

From -6722846948508211168
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
From: Slow Code <my.mail@no.spam>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<1162817506.291816.175840@h48g2000cwc.googlegroups.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 26
Message-ID: <ZSQ3h.3080$l25.2060@newsread4.news.pas.earthlink.net>

```
Date: Tue, 07 Nov 2006 00:58:33 GMT
NNTP-Posting-Host: 4.254.226.196
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1162861113 4.254.226.196 (Mon, 06 Nov
2006 16:58:33 PST)
NNTP-Posting-Date: Mon, 06 Nov 2006 16:58:33 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:21102
rec.radio.amateur.homebrew:7725 rec.radio.amateur.policy:53312
rec.radio.scanner:7628 rec.radio.swap:9531

"AndyS" <andysharpe@juno.com> wrote in
news:1162817506.291816.175840@h48g2000cwc.googlegroups.com:

>
> Slow Code wrote:
>> If all the seats are taken at a club meeting and a 20wpm code tested
>> Extra is standing, a no-code ham should give their seat to the Extra
>> and sit on the floor.  After saluting of course.
>>
>> SC
>
> Andy writes:
>
>    A FINE idea.  And if the Extra needs to go to the restroom for some
> reason, the no-code should accompany him with a roll of tissue and
> assist in His endeavors.......



I like it, but there's only one problem.  No-codes don't use toilet paper.

Somebody is going to have to Elmer them on how to wipe a butt and since
it's your idea....


SC



From -6979553019050721553
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
```

From: Slow Code <my.mail@no.spam>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
<s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
<lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 37
Message-ID: <XSQ3h.3079$l25.2652@newsread4.news.pas.earthlink.net>
Date: Tue, 07 Nov 2006 00:58:31 GMT
NNTP-Posting-Host: 4.254.226.196
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1162861111 4.254.226.196 (Mon, 06 Nov 2006 16:58:31 PST)
NNTP-Posting-Date: Mon, 06 Nov 2006 16:58:31 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:21101
rec.radio.amateur.homebrew:7724 rec.radio.amateur.policy:53311
rec.radio.scanner:7627 rec.radio.swap:9530

X-rated Vermonter <k1xvnospam@arrl.net> wrote in
news:lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com:

> On Mon, 06 Nov 2006 01:16:08 GMT, Slow Code <my.mail@no.spam> wrote:
>
>>X-rated Vermonter <k1xvnospam@arrl.net> wrote in
>>news:991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com:
>>
>>> On Sat, 04 Nov 2006 23:58:09 GMT, Slow Code <my.mail@no.spam> wrote:
>>>
>>>>If all the seats are taken at a club meeting and a 20wpm code tested
>>>>Extra is standing, a no-code ham should give their seat to the Extra
>>>>and sit on the floor. After saluting of course.
>>>>
>>>>SC
>>> ++++++++
>>> You have been drinking too much sloe gin.
>>
>>
>>
>>Please wipe the seat after you get off to sit on the floor.
>>
>>Thanks.
>>
>>SC
> +++++++++
> It just so happens that I passed a 20 wpm code test and I think you
> are a bozo.

If you're really a code tested Extra, why do you want to dumb down ham
radio? You should help me push for better radio exams by supporting an
increase in speed of the code requirement. If we can get rid of the
no-codes and nickle hams, test everyone up to 13 and 20wpm, no one will

```
have to sit on the floor at club meetings anymore.

SC



From -6009262033088692720
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: slow code continues crapathon
Date: Mon, 06 Nov 2006 20:39:51 -0500
Message-ID: <1uovk2p54tm7dus04kpfdj10nanjg5ssj7@4ax.com>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
<s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
<lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
<XSQ3h.3079$l25.2652@newsread4.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 44
NNTP-Posting-Date: 07 Nov 2006 00:45:10 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21106
rec.radio.amateur.homebrew:7726 rec.radio.amateur.policy:53334
rec.radio.scanner:7629 rec.radio.swap:9533

On Tue, 07 Nov 2006 00:58:31 GMT, Slow Code <my.mail@no.spam> wrote:

>X-rated Vermonter <k1xvnospam@arrl.net> wrote in
>news:lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com:
>
>> On Mon, 06 Nov 2006 01:16:08 GMT, Slow Code <my.mail@no.spam> wrote:
>>
>>>X-rated Vermonter <k1xvnospam@arrl.net> wrote in
>>>news:991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com:
>>>
>>>> On Sat, 04 Nov 2006 23:58:09 GMT, Slow Code <my.mail@no.spam> wrote:
>>>>
>>>>>If all the seats are taken at a club meeting and a 20wpm code tested
>>>>>Extra is standing, a no-code ham should give their seat to the Extra
>>>>>and sit on the floor.  After saluting of course.
```

>>>>>
>>>>>SC
>>>> ++++++++
>>>> You have been drinking too much sloe gin.
>>>
>>>
>>>
>>>Please wipe the seat after you get off to sit on the floor.
>>>
>>>Thanks.
>>>
>>>SC
>> +++++++++
>> It just so happens that I passed a 20 wpm code test and I think you
>> are a bozo.
>
>
>If you're really a code tested Extra, why do you want to dumb down ham
>radio? You should help me push for better radio exams by supporting an
>increase in speed of the code requirement. If we can get rid of the
>no-codes and nickle hams, test everyone up to 13 and 20wpm, no one will
>have to sit on the floor at club meetings anymore.
>
nobody wants to dumb down ham radio we want to end the dumbing down
that exists today

code testing
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From 4626191433851867512
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!uns-out.usenetserver.com!news.usenetserver.com!pc03.usenetserver.com!VERMONTEL.NET-a2kHrUvQQWlmc!not-for-mail
From: X-rated Vermonter
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
Date: Mon, 06 Nov 2006 21:22:44 -0500

```
Message-ID: <9nqvk290folpkapot0pqm4ks68dummbn27@4ax.com>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
<s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
<lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
<XSQ3h.3079$l25.2652@newsread4.news.pas.earthlink.net>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Organization: VTel Internet NNTP
Cache-Post-Path: r2d2.vermontel.net!unknown@vtelinet-209-134-36-80.vermontel.net
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
X-Complaints-To: abuse@usenetserver.com
Lines: 65
X-Trace: e84ae454fedf47de7c94b27764
Xref: g2news2.google.com rec.radio.amateur.antenna:21111
rec.radio.amateur.homebrew:7727 rec.radio.amateur.policy:53351
rec.radio.scanner:7630 rec.radio.swap:9535

On Tue, 07 Nov 2006 00:58:31 GMT, Slow Code <my.mail@no.spam> wrote:

>X-rated Vermonter <k1xvnospam@arrl.net> wrote in
>news:lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com:
>
>> On Mon, 06 Nov 2006 01:16:08 GMT, Slow Code <my.mail@no.spam> wrote:
>>
>>>X-rated Vermonter <k1xvnospam@arrl.net> wrote in
>>>news:991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com:
>>>
>>>> On Sat, 04 Nov 2006 23:58:09 GMT, Slow Code <my.mail@no.spam> wrote:
>>>>
>>>>>If all the seats are taken at a club meeting and a 20wpm code tested
>>>>>Extra is standing, a no-code ham should give their seat to the Extra
>>>>>and sit on the floor.  After saluting of course.
>>>>>
>>>>>SC
>>>> ++++++++
>>>> You have been drinking too much sloe gin.
>>>
>>>
>>>
>>>Please wipe the seat after you get off to sit on the floor.
>>>
>>>Thanks.
>>>
>>>SC
>> +++++++++
>> It just so happens that I passed a 20 wpm code test and I think you
>> are a bozo.
>
>
>If you're really a code tested Extra, why do you want to dumb down ham
```

>radio? You should help me push for better radio exams by supporting an
>increase in speed of the code requirement. If we can get rid of the
>no-codes and nickle hams, test everyone up to 13 and 20wpm, no one will
>have to sit on the floor at club meetings anymore.
>
>SC

++++++++++++
I don't want to dumb down amateur radio, but you very much want to. You see, amateur radio is supposed to be about advancement of the art, and preparing and maintaining a civilian population with contemporary communications skills Mandating a mode that has fallen completely out of military and commercial use as obsolete is contrary to the concept of advancement of the art. It is as if blood letting was a required course for a medical degree.

Code is fine for those who like that mode. I use it at least once a month. However, it is no longer the mode that is best in weak signal conditions, or that uses the narrowest band width for effective communication. PSK31 runs circles around code. And guess what....many of the most fervent code guys I know cheat and use computers to print the received code on a screen, and a keyboard to allow the computer to generate their sending.

An amateur extra exam these days covers information a lot more current than that on the exam just a few decades ago. Perhaps instead of harping on code as some indicator of intelligence, you should direct your efforts to having all hams retested on license renewal, to make sure they continue to be current with the state of the art in amateur radio.   Or do you believe that de Forest era vacuum tubes are more relevant to amateur radio in the 21st century than integrated circuits?

From -566081112256975072
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone.austin.rr.com!news.rr.com!tornado.texas.rr.com.POSTED!53ab2750!not-for-mail
From: "U-Know-Who" <no-one@nowhere.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.scanner,rec.radio.swap
References: <l093h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
<s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
<lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>

```
<XSQ3h.3079$l25.2652@newsread4.news.pas.earthlink.net>
<9nqvk290folpkapot0pqm4ks68dummbn27@4ax.com>
Subject: Re: Common courtesy
Lines: 72
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <biS3h.91$mR4.12@tornado.texas.rr.com>
Date: Tue, 07 Nov 2006 02:35:51 GMT
NNTP-Posting-Host: 67.10.92.242
X-Complaints-To: abuse@rr.com
X-Trace: tornado.texas.rr.com 1162866951 67.10.92.242 (Mon, 06 Nov 2006 20:35:51
CST)
NNTP-Posting-Date: Mon, 06 Nov 2006 20:35:51 CST
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21113
rec.radio.amateur.homebrew:7728 rec.radio.amateur.policy:53354
rec.radio.scanner:7631 rec.radio.swap:9537


<X-rated Vermonter> wrote in message
news:9nqvk290folpkapot0pqm4ks68dummbn27@4ax.com...
> On Tue, 07 Nov 2006 00:58:31 GMT, Slow Code <my.mail@no.spam> wrote:
>
>>X-rated Vermonter <k1xvnospam@arrl.net> wrote in
>>news:lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com:
>>
>>> On Mon, 06 Nov 2006 01:16:08 GMT, Slow Code <my.mail@no.spam> wrote:
>>>
>>>>X-rated Vermonter <k1xvnospam@arrl.net> wrote in
>>>>news:991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com:
>>>>
>>>>> On Sat, 04 Nov 2006 23:58:09 GMT, Slow Code <my.mail@no.spam> wrote:
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>>>>>>Extra is standing, a no-code ham should give their seat to the Extra
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>>>>>>
>>>>>>SC
>>>>> ++++++++
>>>>> You have been drinking too much sloe gin.
>>>>
>>>>
>>>>
>>>>Please wipe the seat after you get off to sit on the floor.
>>>>
>>>>Thanks.
>>>>
>>>>SC
>>> +++++++++
>>> It just so happens that I passed a 20 wpm code test and I think you
```

>>> are a bozo.
>>
>>
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>>radio? You should help me push for better radio exams by supporting an
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>>
>>SC
>
> ++++++++++++
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>
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> your efforts to having all hams retested on license renewal, to make
> sure they continue to be current with the state of the art in amateur
> radio.   Or do you believe that de Forest era vacuum tubes are more
> relevant to amateur radio in the 21st century than integrated
> circuits?

He's still trying to homebrew his first spark-gap transmitter.

```
From -5146170665500528642
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f16g2000cwb.googlegroups.com!not-for-
mail
From: hot-ham-and-cheese@hotmail.com
```

```
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
Date: 6 Nov 2006 19:31:24 -0800
Organization: http://groups.google.com
Lines: 13
Message-ID: <1162870284.031154.51070@f16g2000cwb.googlegroups.com>
References: <l093h.2461$0r.1796@newsread1.news.pas.earthlink.net>
   <991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
   <s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
   <lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
   <1162796328.142616.84010@e3g2000cwe.googlegroups.com>
NNTP-Posting-Host: 4.224.231.174
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1162870289 6668 127.0.0.1 (7 Nov 2006 03:31:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 7 Nov 2006 03:31:29 +0000 (UTC)
In-Reply-To: <1162796328.142616.84010@e3g2000cwe.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f16g2000cwb.googlegroups.com; posting-host=4.224.231.174;
   posting-account=mMyuWQ0AAAANPpX1wK2NRuuQfAjm_kIo
Xref: g2news2.google.com rec.radio.amateur.antenna:21119
rec.radio.amateur.homebrew:7729 rec.radio.amateur.policy:53360
rec.radio.scanner:7632 rec.radio.swap:9540


K4YZ wrote:
> X-rated Vermonter wrote:
>
> > It just so happens that I passed a 20 wpm code test and I think you
> > are a bozo.
>
>     Where's the evidence?
>
> Steve, K4YZ

Silly Bozo Wabbit, opinions need no evidence.



From 7595974539935599050
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-
mail
From: "an_old_friend" <konstans@hotmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
Date: 6 Nov 2006 20:42:45 -0800
Organization: http://groups.google.com
Lines: 17
Message-ID: <1162874565.387051.20660@b28g2000cwb.googlegroups.com>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
   <991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
   <s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
   <lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
   <1162796328.142616.84010@e3g2000cwe.googlegroups.com>
   <1162870284.031154.51070@f16g2000cwb.googlegroups.com>
NNTP-Posting-Host: 66.82.9.41
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1162874570 17084 127.0.0.1 (7 Nov 2006 04:42:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 7 Nov 2006 04:42:50 +0000 (UTC)
In-Reply-To: <1162870284.031154.51070@f16g2000cwb.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=66.82.9.41;
   posting-account=5Yl6pg0AAADpwOMWiAfWEILF9IbswBYm
Xref: g2news2.google.com rec.radio.amateur.antenna:21121
rec.radio.amateur.homebrew:7730 rec.radio.amateur.policy:53368
rec.radio.scanner:7640 rec.radio.swap:9542


hot-ham-and-cheese@hotmail.com wrote:
> K4YZ wrote:
> > X-rated Vermonter wrote:
> >
> > > It just so happens that I passed a 20 wpm code test and I think you
> > > are a bozo.
> >
> >     Where's the evidence?
> >
> > Steve, K4YZ
>
> Silly Bozo Wabbit, opinions need no evidence.

not when they oppose the Might Steve then they must be proven true or
he will meat justice or some such crap
```

From 1877153086616519883
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news.alt.net
From: "Colonel Mark" <anon@anon>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
Date: Tue, 7 Nov 2006 00:14:23 -0500
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 18
Message-ID: <elq9f.dgu.17.1@news.alt.net>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
<s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
<lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
<1162796328.142616.84010@e3g2000cwe.googlegroups.com>
<1162870284.031154.51070@f16g2000cwb.googlegroups.com>
<1162874565.387051.20660@b28g2000cwb.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Xref: g2news2.google.com rec.radio.amateur.antenna:21122
rec.radio.amateur.homebrew:7731 rec.radio.amateur.policy:53369
rec.radio.scanner:7641 rec.radio.swap:9544

> >
> > Steve, K4YZ
>
> Silly Bozo Wabbit, opinions need no evidence.

not when they oppose the Might Steve then they must be proven true or
he will meat justice or some such crap
...
Mork punces again....

he will meat justice
he will meat justice
he will meat justice

You are your own worst enemy, Mork.

```
From -4774865422605645052
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-
mail
From: "an_old_friend" <konstans@hotmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
Date: 6 Nov 2006 21:25:05 -0800
Organization: http://groups.google.com
Lines: 29
Message-ID: <1162877105.763517.83010@e3g2000cwe.googlegroups.com>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
   <991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
   <s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
   <lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
   <1162796328.142616.84010@e3g2000cwe.googlegroups.com>
   <1162870284.031154.51070@f16g2000cwb.googlegroups.com>
   <1162874565.387051.20660@b28g2000cwb.googlegroups.com>
   <elq9f.dgu.17.1@news.alt.net>
NNTP-Posting-Host: 66.82.9.41
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1162877111 23345 127.0.0.1 (7 Nov 2006 05:25:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 7 Nov 2006 05:25:11 +0000 (UTC)
In-Reply-To: <elq9f.dgu.17.1@news.alt.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=66.82.9.41;
   posting-account=5Yl6pg0AAADpwOMWiAfWEILF9IbswBYm
Xref: g2news2.google.com rec.radio.amateur.antenna:21123
rec.radio.amateur.homebrew:7732 rec.radio.amateur.policy:53375
rec.radio.scanner:7646 rec.radio.swap:9545
```

Colonel Mark wrote:
more fraud
> > >
> > > Steve, K4YZ
> >
> > Silly Bozo Wabbit, opinions need no evidence.
>
> not when they oppose the Might Steve then they must be proven true or

```
> he will meat justice or some such crap
> ...
> Mork punces again....
>
> he will meat justice
> he will meat justice
> he will meat justice
>
> You are your own worst enemy, Mork.

hardly steve

most people are not so teribly concerned with spelling

indeed most people reconize that when all you have to offer is speling
mistakes you have NO real armguement to make

you are your own worst enemy. i could not make such a fool of you
without YOUR help and consent




From 3829464837279234214
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!out01b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-
xfer.nntp.sonic.net!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW to FM Remodulator?
Date: 7 Nov 2006 05:33:14 GMT
Organization: The National Capital FreeNet
Lines: 104
Message-ID: <eip5qq$hm1$1@theodyn.ncf.ca>
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1162877594 18113 134.117.136.48 (7 Nov 2006 05:33:14 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 7 Nov 2006 05:33:14 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7733

 (ka9s3@comcast.net) writes:
> I have been looking into gizmos that improve CW copy. Most are audio
> tone detectors that ignore short impulse noise bursts and then
> regenerate the CW with a keyed tone oscillator. There are several of
> these designs around and they are all well and good, but I stumbled
> across something different and was wondering if any of you have had
> personal experience with it?
>
> An October 1971 article in Ham Radio magazine (pg 17) titled
```

> "high-performance CW processor for communications receivers",
> "Frequency modulating the telegraphy signals in your receiver provides
> an interesting and profitable addition to conventional receiver
> design".
>

I finally dug out the article. I haven't a clue to its worth, but I don't recall that sort of scenario coming up in other places (while the one about good filtering and using a detected voltage to key an audio oscillator came up a number of times), which may mean nobody found it useful, or nobody else could be bothered replicating the circuitry. What you want to do is check a few issues later, to see if there were any letters related to it in the "Comments" section.

It's interesting that the November 1971 issue of Ham Radio had an article entitled "Weak Signal Reception in CW Receivers", which used nothing cutting edge but was a summation of various things one could do to improve reception.

Go back a few years, and you'd see an article or two about "under the noise" CW reception, which of course amounted to PLLs driving some indicator, but at the time were pretty out of the ordinary since IC phase locked loops hadn't arrived.

I suspect to evaluate this, one really needs to dig through the magazines and look at all the schemes. Ham Radio seemed to have a fair number in the first decade or so. Something about that article you reference reminds me of something in an article about a Hallicrafter's diversity receiver, I forget the issue but it likely was in one of the annual October (or was it November?) receiver issues. About '74 or '75, someone named Hilbert had some scheme that involved active audio filters, but there was more to it than I can think of at the moment. (I seem to recall there was some "stereo" effect, in that different signals were fed to each ear, which in itself may be worth pursuing. Use one of those schemes with the detectors to key the audio oscillator, but also include some of the signal from the receiver output, so you get the noise and the actual signal in it.) Wait, I think it must have been "Hildreth", who also wrote this article you reference. In which case, you can look up what he did later; did he see some fault in this system, or did he just realize it was easier to implement something at audio?

Someone mentioned in this thread something that hinted at Coherent CW, which sync'd up the time and frequency at both ends to allow for good filters and fairly deep in the noise CW reception. If you know when and where to look, then it's easier to gather whether there's a signal there or not.

By looking at the various schemes people have come up with, one can get a better idea of each one's worth better than looking at each one by itself.

Some of the schemes likely panned out to be duds. Others required too much circuitry, at least at the time of the articles, so nobody wanted to replicate them. And then likely they've been forgotten, because otherwise more recent technology advances make the past easier (look at how phasing SSB returned to some level of popularity when ICs and digital audio came along). Others, like Coherent CW had the disadvantage that they were a whole system, rather than a processor, so you needed matching stations at both ends in order for it all to work.

You can at least look over the cumulative index of Ham Radio magazine, since someone has put it (or at least some version of it) online at http://webhome.idirect.com/~griffith/hrindex.htm

Ham Radio seemed to be the place to look for that sort of out of the ordinary schemes.

> The idea is to sample the last IF of a receiver after as much IF filtering as you can muster, and then using this as the RF input to a FM modulator. The RF/IF is modulated at the audio frequency you like to hear while copying CW. The next step is to frequency multiply the FM modulated signal to increase the bandwidth and up the modulation index. The following step is to treat it like any normal FM receiver IF and run it through a limiter stripping off any amplitude information. The last step is to put the signal into a normal FM discriminator to recover the modulating tone you used.
>
> What this is supposed to do is reduce or eliminate QRN (not QRM) from the CW signal making a "quiet" background to copy the CW.
>

It gets the on/off of the keying, but yes it limits the signals. So widely varying signals will be at about the same level (though that may not always be a feature), and any QRN will be limited too.

In thinking about it, I'm not so sure it's all that distant from the schemes that detect the CW and use that to key an audio oscillator. The bulk of the circuitry is not there to improve the CW reception, but to get that needed FM signal, with the incoming CW signal as the "carrier".

Again, the more I think about it the more I think his later audio based schemes may implement a similar concept.

Michael VE2BVW

```
From -1234112809662100595
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
208.49.83.154.MISMATCH!uns-out.usenetserver.com!news.usenetserver.com!
pc03.usenetserver.com!DIALUPUSA.NET!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
```

Subject: Re: CW to FM Remodulator?
From: Mike Monett <No@email.adr>
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
<1162556859.782446.301680@h48g2000cwc.googlegroups.com>
Organization: UTS
Message-ID: <Xns98741B7E1D4AENoemailadr@208.49.80.251>
User-Agent: Xnews/5.04.25
X-Complaints-To: abuse@usenetserver.com
Date: Tue, 07 Nov 2006 02:31:25 -0500
Lines: 34
X-Trace: a23204550364d3fac3604205
Xref: g2news2.google.com rec.radio.amateur.homebrew:7734

"AndyS" <andysharpe@juno.com> wrote:

> My ear copy can still pick those out, and many of the "processors"
> can't deal with noisy sigs in that region. They tend to fall apart
> when anything below tangential sensitivity is received.

> Andy W4OAH in Eureka, Texas

Leif Asbrink, SM5BSZ, has some remarkable plots of moonbounce using
25W emitted from single 10 element yagi:

http://www.nitehawk.com/sm5bsz/kk7ka/kk7ka.htm

He gives his personal experience listening to weak Morse code here:

http://www.nitehawk.com/sm5bsz/weakcom.htm

His entire site is packed with very useful information on receiving
weak signals, including his Linrad setup:

http://www.nitehawk.com/sm5bsz/weakcom.htm

Well worth exploring if you haven't had the chance.

Regards,

Mike Monett

Antiviral, Antibacterial Silver Solution:
http://silversol.freewebpage.org/index.htm
SPICE Analysis of Crystal Oscillators:
http://silversol.freewebpage.org/spice/xtal/clapp.htm
Noise-Rejecting Wideband Sampler:
http://www3.sympatico.ca/add.automation/sampler/intro.htm

From 4580906621211014869
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!inka.de!rz.uni-
karlsruhe.de!news.belwue.de!newsfeed.arcor.de!newsspool1.arcor-online.net!
news.arcor.de.POSTED!not-for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
<eip5qq$hm1$1@theodyn.ncf.ca>
Subject: Re: CW to FM Remodulator?
Date: Tue, 7 Nov 2006 13:07:10 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 19
Message-ID: <45507abf$0$5726$9b4e6d93@newsspool3.arcor-online.net>
Organization: Arcor
NNTP-Posting-Date: 07 Nov 2006 13:23:27 CET
NNTP-Posting-Host: 4470d8c4.newsspool3.arcor-online.net
X-Trace: DXC=S[OLcQR5@:l]l@YUW5NBknMcF=Q^Z^V3h4Fo<]lROoRagUcjd<3m<;bAXD?
aA466ckH2GHD?hOgLab[W=A9M6<Iblb3[7JP9Y?lgj@gd<bmcOo
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7735

About tone detection in noise with biaural hearing:
In an ancient magazine article (If I recall correctly it was "dubus") there was a scientific reference mentioned. The signal must be delayed AND a difference in power level feeding it to the ears. They mentioned it is possible to get 3dB improvement with this methode.

Of course, detecting "submarine" is a good search for Google I think. They do worn stereo head phones.

Signal detection in general is how the processing is done:
- online or offline. Offline gives the added benefit of knowing all the signal in advance.
- bit-speed needed (Here the brain is bounded to limits)
- power level achievable (over background)

You can't beat the modern detection systems doing DSP algorithms.

- Henry

From 8436960283709974896
X-Google-Thread: fc2a5,2ea566d6e8897032
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail

NNTP-Posting-Date: Tue, 07 Nov 2006 07:20:37 -0600
From: "jack" <jdwalton@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <454f2486$0$3073$afc38c87@news.optusnet.com.au>
Subject: Re: Tektronix 2215A
Date: Tue, 7 Nov 2006 08:23:00 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1506
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1506
Message-ID: <_cGdnYQcWo24Fc3YnZ2dnUVZ_vmdnZ2d@comcast.com>
Lines: 5
NNTP-Posting-Host: 69.249.69.72
X-Trace: sv3-e6DI/
WcuE9IiVlvAvOyKGgmQ2Dqksy0rUb9llPsDIF239gYI9o8HXSHLTtpYXIiHWQrIf+cpMdPyQaE!
clbxPN2FbzGtbNTlLutW3Fnx1ifmtePkYKsLo9JPmPObWe1fq9hTBhwhcKsVkoFzFAzM4WYerES6!
whdZTvjv+7w9
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7736

this is one TEK product which deserves the "heave - ho" (well, there are others like the audio sweep generator which they had outsourced) -- the CRT mesh is flimsy and deforms easily -- and the only correction is a new CRT.

From 3735694737917754590
X-Google-Thread: fc2a5,2ea566d6e8897032
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!204.127.204.224.MISMATCH!wns14feed!worldnet.att.net!
attbi_s21.POSTED!53ab2750!not-for-mail
From: "William E. Sabin" <w.sabin@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <454f2486$0$3073$afc38c87@news.optusnet.com.au>
<_cGdnYQcWo24Fc3YnZ2dnUVZ_vmdnZ2d@comcast.com>
Subject: Re: Tektronix 2215A
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <Kc04h.136385$aJ.97896@attbi_s21>
NNTP-Posting-Host: 12.217.178.216

X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1162907562 12.217.178.216 (Tue, 07 Nov 2006 13:52:42 GMT)
NNTP-Posting-Date: Tue, 07 Nov 2006 13:52:42 GMT
Organization: AT&T ASP.att.net
Date: Tue, 07 Nov 2006 13:52:42 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7737

I have a 2235A that I bought new in 1991 that is quite good. No problems.
Dual beam, analog, 100 MHz.

Bill W0IYH

"jack" <jdwalton@comcast.net> wrote in message
news:_cGdnYQcWo24Fc3YnZ2dnUVZ_vmdnZ2d@comcast.com...
> this is one TEK product which deserves the "heave - ho" (well, there are
> others like the audio sweep generator which they had outsourced) -- the
> CRT
> mesh is flimsy and deforms easily -- and the only correction is a new CRT.
>
>

From -248581593041992422
X-Google-Thread: fc2a5,2ea566d6e8897032
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s71.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <454f2486$0$3073$afc38c87@news.optusnet.com.au>
<_cGdnYQcWo24Fc3YnZ2dnUVZ_vmdnZ2d@comcast.com> <Kc04h.136385$aJ.97896@attbi_s21>
Subject: Re: Tektronix 2215A
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <7714h.227564$FQ1.161610@attbi_s71>
NNTP-Posting-Host: 12.219.128.249
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s71 1162911299 12.219.128.249 (Tue, 07 Nov 2006 14:54:59 GMT)
NNTP-Posting-Date: Tue, 07 Nov 2006 14:54:59 GMT
Organization: AT&T ASP.att.net
Date: Tue, 07 Nov 2006 14:54:59 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7738

>I have a 2235A that I bought new in 1991 that is quite good. No problems.

> Dual beam, analog, 100 MHz.
>
> Bill W0IYH

My shop scope is a Tek 2236, and I have the service manual for it that I
could scan portions of if helpful. I suspect there are close similarities.
However, for a few bucks, you can obtain the exact manual on a CD at:

http://www.pdf-manuals.com/

W4ZCB

From -2080926239612621724
X-Google-Thread: fc2a5,121e6ecb9ad212ef,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: How connect two EPP ports to "talk" between them?
Date: 7 Nov 2006 18:11:38 -0600
Organization: Kansas State University
Lines: 53
Message-ID: <eir7bq$7ja@unix1.cc.ksu.edu>
NNTP-Posting-Host: unix1.cc.ksu.edu
X-Trace: cnn.cns.ksu.edu 1162944701 25307 129.130.12.3 (8 Nov 2006 00:11:41 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Wed, 8 Nov 2006 00:11:41 +0000 (UTC)
Keywords: EPP, parallel ports
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7739

Hope this isn't too far off-topic, but maybe somebody who has actually
done something homebrew like this can give me some pointers.

I'd like to connect two PC's with EPP ports so they could "talk" to each
other (mono-directional at any instant but reversible -- probably by
passing a "token" back and forth -- and preferably NOT using interrupts
because I'll be doing most of the programming in a high-level language).

This is a one-off job and I'm not looking for elegance or portability;
I just want something to work reliably.

Maximum cable length will be be less than 10 meters, so propagation
time should be minimal.

The programming, itself, doesn't bother me, but it's how to CONNECT
the two parallel ports and how to implement half of the handshake.

Each port has the following pins/functions available:

```
DIRECTION:  DESCRIPTION(#)
      Out:  Write
    InOut:  Data (8)
       In:  Interrupt
       In:  Wait
      Out:  DataStrobe
      Out:  Reset
      Out:  AdrsStrobe
       In:  Spare (3)
   Ground:  (8)
```

Some connections are fairly obvious:
 * 8 data lines to corresponding 8 data lines
 * 1 (or a few) ground line(s) to ground line(s)
 * DataStrobe outputs to the other's Interrupt inputs
      (but I'll DISable the Interrupts).

Possible algorithm:
Assume one PC is started as SeNDeR and the other as ReCeiVeR:
Not sure how RCVR lets SNDR know it is ready to receive,
    but RCVR furiously polls the Interrupt input.
SNDR writes the data to its port.
  which causes Write to go low
  which causes data to be dumped on the output data lines
  Not sure what signal from RCVR should be the SNDR's Wait signal.
  but when SNDR's Wait is low SNDR's DataStrobe is set high

Something tells me this just isn't going to work!

HELP! Please!
--
--Myron A. Calhoun.
Five boxes preserve our freedoms: soap, ballot, witness, jury, and cartridge
NRA Life Member and Rifle, Pistol, & Home Firearm Safety Certified Instructor
Certified Instructor for the Kansas Concealed-Carry Handgun license

From 677313918395930322
X-Google-Thread: fc2a5,41f090f79cf9b4cd,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!newsfeeds.ihug.co.nz!ihug.co.nz!news.compaq.com!sdd.hp.com!newstrans.cos.agilent.com!not-for-mail
From: "Al Lorona" <al_lorona@agilent.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Super Glue doesn't work any more
Date: Tue, 7 Nov 2006 16:31:36 -0800
Organization: None
Lines: 13
Message-ID: <1162945128.879720@newsreg.cos.agilent.com>
NNTP-Posting-Host: newsreg.cos.agilent.com
X-Trace: newstrans.cos.agilent.com 1162945897 25844 130.29.134.111 (8 Nov 2006

00:31:37 GMT)
X-Complaints-To: usenet@newstrans.cos.agilent.com
NNTP-Posting-Date: Wed, 8 Nov 2006 00:31:37 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Cache-Post-Path: newsreg.cos.agilent.com!unknown@scs1nai137229.scs.agilent.com
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7740

Has anybody noticed that Super Glue (cyanoacrylate clear liquid glue) just doesn't seem to work any more? I remember when it first came out that it used to bond anything and everything. Lately, seems that I can't even fix my son's toys with it any more.

Latest failure: Just tried to glue a small 12V DC fan for a PA with it and the bond came apart the next day pretty much by itself.

Al W6LX

From 20340652708284054O7
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
From: Slow Code <my.mail@no.spam>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
<s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
<lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
<XSQ3h.3079$l25.2652@newsread4.news.pas.earthlink.net>
<9nqvk290folpkapot0pqm4ks68dummbn27@4ax.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 85
Message-ID: <1C94h.3634$L6.3344@newsread3.news.pas.earthlink.net>
Date: Wed, 08 Nov 2006 00:34:05 GMT

```
NNTP-Posting-Host: 4.254.226.92
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1162946045 4.254.226.92 (Tue, 07 Nov
2006 16:34:05 PST)
NNTP-Posting-Date: Tue, 07 Nov 2006 16:34:05 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:21144
rec.radio.amateur.homebrew:7741 rec.radio.amateur.policy:53413
rec.radio.scanner:7656 rec.radio.swap:9554

X-rated Vermonter wrote in
news:9nqvk290folpkapot0pqm4ks68dummbn27@4ax.com:

> On Tue, 07 Nov 2006 00:58:31 GMT, Slow Code <my.mail@no.spam> wrote:
>
>>X-rated Vermonter <k1xvnospam@arrl.net> wrote in
>>news:lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com:
>>
>>> On Mon, 06 Nov 2006 01:16:08 GMT, Slow Code <my.mail@no.spam> wrote:
>>>
>>>>X-rated Vermonter <k1xvnospam@arrl.net> wrote in
>>>>news:991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com:
>>>>
>>>>> On Sat, 04 Nov 2006 23:58:09 GMT, Slow Code <my.mail@no.spam> wrote:
>>>>>
>>>>>>If all the seats are taken at a club meeting and a 20wpm code tested
>>>>>>Extra is standing, a no-code ham should give their seat to the Extra
>>>>>>and sit on the floor.  After saluting of course.
>>>>>>
>>>>>>SC
>>>>> ++++++++
>>>>> You have been drinking too much sloe gin.
>>>>
>>>>
>>>>
>>>>Please wipe the seat after you get off to sit on the floor.
>>>>
>>>>Thanks.
>>>>
>>>>SC
>>> +++++++++
>>> It just so happens that I passed a 20 wpm code test and I think you
>>> are a bozo.
>>
>>
>>If you're really a code tested Extra, why do you want to dumb down ham
>>radio? You should help me push for better radio exams by supporting an
>>increase in speed of the code requirement.  If we can get rid of the
>>no-codes and nickle hams, test everyone up to 13 and 20wpm, no one will
>>have to sit on the floor at club meetings anymore.
>>
>>SC
>
> ++++++++++++
```

> I don't want to dumb down amateur radio, but you very much want to.
> You see, amateur radio is supposed to be about advancement of the art,
> and preparing and maintaining a civilian population with contemporary
> communications skills Mandating a mode that has fallen completely out
> of military and commercial use as obsolete is contrary to the concept
> of advancement of the art. It is as if blood letting was a required
> course for a medical degree.
>
> Code is fine for those who like that mode. I use it at least once a
> month. However, it is no longer the mode that is best in weak signal
> conditions, or that uses the narrowest band width for effective
> communication. PSK31 runs circles around code. And guess
> what....many of the most fervent code guys I know cheat and use
> computers to print the received code on a screen, and a keyboard to
> allow the computer to generate their sending.
>
> An amateur extra exam these days covers information a lot more current
> than that on the exam just a few decades ago. Perhaps instead of
> harping on code as some indicator of intelligence, you should direct
> your efforts to having all hams retested on license renewal, to make
> sure they continue to be current with the state of the art in amateur
> radio.   Or do you believe that de Forest era vacuum tubes are more
> relevant to amateur radio in the 21st century than integrated
> circuits?

Code is just one part of it. Here's my four step plan that will keep ham radio from becoming like CB:

Step 1: No more automatic renewals. Individuals must retest and
pass all elements required for their license class.

Step 2: The passing score for written exams needs to be raised to 85%.

Step 3: Code elements should be 13 wpm for General, and 20 wpm for Extra.

Step 4: Make the no-code license one year non-renewable.

From -2614077590288559657
X-Google-Thread: fcc6e,29eb3ac782a0dd0e,start
X-Google-Thread: fc2a5,29eb3ac782a0dd0e,start
X-Google-Thread: 10bf43,29eb3ac782a0dd0e,start
X-Google-Thread: 1109af,29eb3ac782a0dd0e,start
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail

Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: FCC took 11 meters from Hams and gave it to CB'ers.
From: Slow Code <my.mail@no.spam>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 5
Message-ID: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
Date: Wed, 08 Nov 2006 00:34:08 GMT
NNTP-Posting-Host: 4.254.226.92
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1162946048 4.254.226.92 (Tue, 07 Nov 2006 16:34:08 PST)
NNTP-Posting-Date: Tue, 07 Nov 2006 16:34:08 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:21145 rec.radio.amateur.homebrew:7742 rec.radio.amateur.policy:53416 rec.radio.swap:9556

When CW is gone, CB'ers will get the other bands too.

SC

From 3437234602295435836
X-Google-Thread: fc2a5,41f090f79cf9b4cd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!newspeer.tds.net!216.170.153.140.MISMATCH!newsreading01.news.tds.net!53ab2750!not-for-mail
From: "John, N9JG" <john@Xremove.MeYgotwals.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1162945128.879720@newsreg.cos.agilent.com>
Subject: Re: Super Glue doesn't work any more
Lines: 20
Organization: CLM ARRL
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <VL94h.98$eb5.1@newsreading01.news.tds.net>
Date: Wed, 08 Nov 2006 00:44:37 GMT
NNTP-Posting-Host: 69.130.139.206
X-Complaints-To: news@tds.net
X-Trace: newsreading01.news.tds.net 1162946677 69.130.139.206 (Tue, 07 Nov 2006 18:44:37 CST)
NNTP-Posting-Date: Tue, 07 Nov 2006 18:44:37 CST
Xref: g2news2.google.com rec.radio.amateur.homebrew:7743

Switch to two-part epoxy. You will, however, have to wait for it to set.

"Al Lorona" <al_lorona@agilent.com> wrote in message
news:1162945128.879720@newsreg.cos.agilent.com...
> Has anybody noticed that Super Glue (cyanoacrylate clear liquid glue) just
> doesn't seem to work any more? I remember when it first came out that it
> used to bond anything and everything. Lately, seems that I can't even fix
> my
> son's toys with it any more.
>
> Latest failure: Just tried to glue a small 12V DC fan for a PA with it and
> the bond came apart the next day pretty much by itself.
>
> Al W6LX
>
>
>
>

From -4784684981066731083
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!feed.xsnews.nl!
feeder.xsnews.nl!feeder3.cambrium.nl!feed.tweaknews.nl!138.199.65.86.MISMATCH!sn-
xt-ams-06!sn-xt-ams-08!sn-ams!sn-feed-ams-02!sn-post-ams-01!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: "David G. Nagel" <nagel@core.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Date: Tue, 07 Nov 2006 18:46:09 -0600
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12l2a6geou7ftc7@corp.supernews.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
In-Reply-To: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 17
Xref: g2news2.google.com rec.radio.amateur.antenna:21149
rec.radio.amateur.homebrew:7744 rec.radio.amateur.policy:53426 rec.radio.swap:9558

Slow Code wrote:

> When CW is gone, CB'ers will get the other bands too.
>
>
> SC

Actually what the FCC did was to take the 11 meter band and create the
General Radio Service Class C and Class D.
Class C was limited to only a few channels (6) limited to control and
paging. Class D was farmed out as 23 channels with only AM modulation
and a max. of 5 watts power input to the finals. This was later
modified to 40 channels and 4 watts input.
The classic CB'er came just prior to the increase to 40 channels.

Dave N
KBH1602 (very expired)

```
From 8191720582535885300
X-Google-Thread: fc2a5,121e6ecb9ad212ef
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news2.google.com!news.germany.com!
newsfeed.freenet.de!feeder.news-service.com!138.199.65.86.MISMATCH!sn-xt-ams-06!
sn-xt-ams-05!sn-ams!sn-feed-ams-01!sn-post-ams-02!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: How connect two EPP ports to "talk" between them?
Date: Tue, 7 Nov 2006 17:17:36 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12l2c1ipno3436d@corp.supernews.com>
References: <eir7bq$7ja@unix1.cc.ksu.edu>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-Complaints-To: abuse@supernews.com
Lines: 8
Xref: g2news2.google.com rec.radio.amateur.homebrew:7745
```

Just out of curiosity, is there any reason you can't either buy what you're
asking for off-the-shelf in the form of, e.g., LapLink or else use an
interface that's better suited to the problem to begin with (such as Ethernet
or even those USB "networking" cables)?

The last time I did what you're after here was in the late '80s!

From -5579737587139488423

X-Google-Thread: fc2a5,41f090f79cf9b4cd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news4.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Super Glue doesn't work any more
Date: Wed, 08 Nov 2006 01:21:51 -0000
Organization: Home for Obscure Mythical Beings
Message-ID: <12l2c9fenbr7vc7@corp.supernews.com>
References: <1162945128.879720@newsreg.cos.agilent.com>
X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
X-Complaints-To: abuse@supernews.com
Lines: 46
Xref: g2news2.google.com rec.radio.amateur.homebrew:7746

In article <1162945128.879720@newsreg.cos.agilent.com>,
Al Lorona <al_lorona@agilent.com> wrote:

>Has anybody noticed that Super Glue (cyanoacrylate clear liquid glue) just
>doesn't seem to work any more? I remember when it first came out that it
>used to bond anything and everything. Lately, seems that I can't even fix my
>son's toys with it any more.
>
>Latest failure: Just tried to glue a small 12V DC fan for a PA with it and
>the bond came apart the next day pretty much by itself.

There are certain specific plastics (polyethylene, polypropylene, and Teflon) which most cyanoacrylates will not bond to properly (either at all, or without some specialized surface preparation). I believe that these plastics are characterized by low surface energy.

If what I read in some of the trade journals is any indication, manufacturers have been selecting newer and more specialized blends of thermoplastics and thermoset plastics over the past few years, in order to optimize the cost, strength, impact resistance, etc. of their products. It would not surprise me if you're more likely now, than a few years ago, to run into plastic-resin blends which cyanoacrylates have difficulty "getting a grip on".

A web page at Saf-t-lok indicates that "Surface ionization pretreatment is necessary to affect best results with instant bonders on non-polar plastic surfaces such as polyethylene or polypropylene. SAF-T-LOK� Surface Conditioner does the job."

Cyanoacrylates also vary significantly in their "grabbing" aggressiveness, viscosity, gap-filling strength, and their tendency to bloom (emit the classic eye-searing white fumes which then "frost" the surface around the application point). My impression is that the newer non-blooming formulations may not grab as aggressively, or hold as strongly as the classic variety. None of them seem to be

particularly good in gap-filling strength, unless you add an
additional particulate filler (baking soda is sometime suggested).

Abrading the surface with fine-grit sandpaper, and then degreasing
with isopropyl alcohol, can improve the grip significantly.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Hosting the Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From 8001263740060551033
X-Google-Thread: fc2a5,41f090f79cf9b4cd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Super Glue doesn't work any more
Date: Tue, 07 Nov 2006 18:14:06 -0800
Message-ID: <77f2l29dns9nim7vt6bca4dkbfvca4fmjd@4ax.com>
References: <1162945128.879720@newsreg.cos.agilent.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node125-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1162939193 66.52.61.125 (7 Nov 2006 17:39:53 -0500)
Lines: 25
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.125
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!out03b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!hwmnpeer01.phx!news.highwinds-
media.com!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:7747

ORIGINAL MESSAGE:

On Tue, 7 Nov 2006 16:31:36 -0800, "Al Lorona" <al_lorona@agilent.com>
 wrote:

>Has anybody noticed that Super Glue (cyanoacrylate clear liquid glue) just
>doesn't seem to work any more? I remember when it first came out that it
>used to bond anything and everything. Lately, seems that I can't even fix my
>son's toys with it any more.
>
>Latest failure: Just tried to glue a small 12V DC fan for a PA with it and
>the bond came apart the next day pretty much by itself.
>
>Al W6LX

>
>
>

------------ REPLY FOLLOWS ------------

FWIW: Super glue should only be used for temporary fixes. Even though
it may be strong enough when first applied, it gets brittle after
about a year and loses much of its strength.

Bill, W6WRT

From -1655698658645336l0
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!wn12feed!
worldnet.att.net!208.49.83.154!uns-out.usenetserver.com!news.usenetserver.com!
pc03.usenetserver.com!VERMONTEL.NET-a2kHrUvQQWlmc!not-for-mail
From: X-rated Vermonter
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Date: Tue, 07 Nov 2006 21:50:31 -0500
Message-ID: <6bh2l2lfjr65mf9qevdr1o4nbcqouqtfnd@4ax.com>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Organization: VTel Internet NNTP
Cache-Post-Path: r2d2.vermontel.net!unknown@vtelinet-209-134-42-188.vermontel.net
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
X-Complaints-To: abuse@usenetserver.com
Lines: 11
X-Trace: 654b7455145f77de7c94b25129
Xref: g2news2.google.com rec.radio.amateur.antenna:21153
rec.radio.amateur.homebrew:7748 rec.radio.amateur.policy:53448 rec.radio.swap:9559

On Wed, 08 Nov 2006 00:34:08 GMT, Slow Code <my.mail@no.spam> wrote:

>
>When CW is gone, CB'ers will get the other bands too.
>
>
>SC
++++++++
I fail to see the connection between Country and Western music bands

and amateur radio. And what makes you think that Country and Western is endangered in the first place?

```
From 802052939752788802
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!news.glorb.com!
nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Slow code crapathon contines
Date: Tue, 07 Nov 2006 21:58:20 -0500
Message-ID: <4qh2l2li3730mmdll25a8hlal60gb8dj0o@4ax.com>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 9
NNTP-Posting-Date: 08 Nov 2006 02:04:04 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21155
rec.radio.amateur.homebrew:7749 rec.radio.amateur.policy:53457 rec.radio.swap:9562

On Wed, 08 Nov 2006 00:34:08 GMT, Slow Code <my.mail@no.spam> wrote:

>
>When CW is gone, CB'ers will get the other bands too.
grow up
>
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From 3120208667060571348
X-Google-Thread: fc2a5,121e6ecb9ad212ef
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr13.news.prodigy.com.POSTED!7b20fae2!not-for-
```

```
mail
From: "Mike Young" <boat042-spam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
References: <eir7bq$7ja@unix1.cc.ksu.edu>
Subject: Re: How connect two EPP ports to "talk" between them?
Lines: 51
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="Windows-1252";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <juc4h.3026$vP1.193@newssvr13.news.prodigy.com>
NNTP-Posting-Host: 68.249.173.183
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr13.news.prodigy.com 1162957839 ST000 68.249.173.183 (Tue, 07 Nov
2006 22:50:39 EST)
NNTP-Posting-Date: Tue, 07 Nov 2006 22:50:39 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
T[OIRZKDPZSCRZH]]RKB_UDAZZ\DPCPDLXUNNHLHEQR@ETUCCNSKQFCY@TXDX_WHSVB]ZEJLSNY\^J[CUV
SA_QLFC^RQHUPH[P[NRWCCMLSNPOD_ESALHUK@TDFUZHBLJ\XGKL^NXA\EVHSP[D_C^B_^JCX^W]CHBAX]
POG@SSAZQ\LE[DCNMUPG_VSC@VJM
Date: Wed, 08 Nov 2006 03:50:39 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7750

<mcalhoun@ksu.edu> wrote in message news:eir7bq$7ja@unix1.cc.ksu.edu...
> Hope this isn't too far off-topic, but maybe somebody who has actually
> done something homebrew like this can give me some pointers.
>
> I'd like to connect two PC's with EPP ports so they could "talk" to each
> other (mono-directional at any instant but reversible -- probably by
> passing a "token" back and forth -- and preferably NOT using interrupts
> because I'll be doing most of the programming in a high-level language).
>
> This is a one-off job and I'm not looking for elegance or portability;
> I just want something to work reliably.
>
> Maximum cable length will be be less than 10 meters, so propagation
> time should be minimal.
>
> The programming, itself, doesn't bother me, but it's how to CONNECT
> the two parallel ports and how to implement half of the handshake.
>
> Each port has the following pins/functions available:
> DIRECTION:  DESCRIPTION(#)
>      Out:  Write
>    InOut:  Data (8)
>       In:  Interrupt
>        In:  Wait
>       Out:  DataStrobe
>       Out:  Reset
>       Out:  AdrsStrobe
>        In:  Spare (3)
>   Ground:  (8)
>
> Some connections are fairly obvious:
> * 8 data lines to corresponding 8 data lines
> * 1 (or a few) ground line(s) to ground line(s)
> * DataStrobe outputs to the other's Interrupt inputs
>      (but I'll DISable the Interrupts).
>
> Possible algorithm:
> Assume one PC is started as SeNDeR and the other as ReCeiVeR:
> Not sure how RCVR lets SNDR know it is ready to receive,
>    but RCVR furiously polls the Interrupt input.
> SNDR writes the data to its port.
>  which causes Write to go low
>  which causes data to be dumped on the output data lines
>  Not sure what signal from RCVR should be the SNDR's Wait signal.
>  but when SNDR's Wait is low SNDR's DataStrobe is set high
>
> Something tells me this just isn't going to work!
```

I don't suppose you have TCP stacks for the two machines?

```
From 1541524808863364388
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f16g2000cwb.googlegroups.com!not-for-
mail
From: kcdillon@rochester.rr.com
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Date: 7 Nov 2006 22:56:05 -0800
Organization: http://groups.google.com
Lines: 14
Message-ID: <1162968965.650283.77590@f16g2000cwb.googlegroups.com>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
   <6bh2l2lfjr65mf9qevdr1o4nbcqouqtfnd@4ax.com>
NNTP-Posting-Host: 74.69.63.23
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
```

```
X-Trace: posting.google.com 1162968970 25065 127.0.0.1 (8 Nov 2006 06:56:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 8 Nov 2006 06:56:10 +0000 (UTC)
In-Reply-To: <6bh2l2lfjr65mf9qevdr1o4nbcqouqtfnd@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f16g2000cwb.googlegroups.com; posting-host=74.69.63.23;
   posting-account=LHFaFA0AAAD5q19Psq6nhN-0KkvNPh8m
Xref: g2news2.google.com rec.radio.amateur.antenna:21158
rec.radio.amateur.homebrew:7751 rec.radio.amateur.policy:53469 rec.radio.swap:9563


X-rated wrote:
> On Wed, 08 Nov 2006 00:34:08 GMT, Slow Code <my.mail@no.spam> wrote:
>
> >
> >When CW is gone, CB'ers will get the other bands too.
> >
> >
> >SC
> ++++++++
> I fail to see the connection between Country and Western music bands
> and amateur radio.  And what makes you think that Country and Western
> is endangered in the first place?



From -5922903973854115519
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-
mail
From: kcdillon@rochester.rr.com
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Date: 7 Nov 2006 22:57:11 -0800
Organization: http://groups.google.com
Lines: 25
Message-ID: <1162969031.058681.231590@e3g2000cwe.googlegroups.com>
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
   <6bh2l2lfjr65mf9qevdr1o4nbcqouqtfnd@4ax.com>
NNTP-Posting-Host: 74.69.63.23
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1162969036 25214 127.0.0.1 (8 Nov 2006 06:57:16 GMT)
```

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 8 Nov 2006 06:57:16 +0000 (UTC)
In-Reply-To: <6bh2l2lfjr65mf9qevdr1o4nbcqouqtfnd@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=74.69.63.23;
   posting-account=LHFaFA0AAAD5q19Psq6nhN-0KkvNPh8m
Xref: g2news2.google.com rec.radio.amateur.antenna:21159
rec.radio.amateur.homebrew:7752 rec.radio.amateur.policy:53470 rec.radio.swap:9564
```

X-rated wrote:
> On Wed, 08 Nov 2006 00:34:08 GMT, Slow Code <my.mail@no.spam> wrote:
>
> >
> >When CW is gone, CB'ers will get the other bands too.
> >
> >
> >SC
> ++++++++
> I fail to see the connection between Country and Western music bands
> and amateur radio. And what makes you think that Country and Western
> Wikipedia

Directory > Reference > Wikipedia continuous wave
A continuous wave or continuous waveform (CW) is an electromagnetic
wave of constant amplitude and frequency; and in mathematical analysis,
of infinite duration. Continuous wave is also the name given to an
early method of radio transmission, in which a carrier wave is switched
on and off. Information is carried in the rhythm and spacing with which
the signal is sent. CW is thus is a form of on-off keying (OOK). In
radio transmission, CW waves are also known as "undamped waves", to
distinguish this method from damped wave transmission
 is endangered in the first place?

```
From 4287560815486759367
X-Google-Thread: fc2a5,96beba27a98a8300,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!news.nask.pl!
news.nask.org.pl!news.cyf-kr.edu.pl!agh.edu.pl!news.agh.edu.pl!news.onet.pl!not-
for-mail
From: MAc <mac_dx@tosiewytnie.poczta.onet.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: automatic (direct reading) SWR Meter
Date: Wed, 08 Nov 2006 12:56:42 +0100
Organization: x
Lines: 8
Message-ID: <eisglq$c9m$1@news.onet.pl>
```

```
Reply-To: mac_dx@tosiewytnie.poczta.onet.pl
NNTP-Posting-Host: pc119.pszczynska.silesianet.pl
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-2; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.onet.pl 1162987002 12598 84.234.115.119 (8 Nov 2006 11:56:42 GMT)
X-Complaints-To: usenet@news.onet.pl
NNTP-Posting-Date: Wed, 8 Nov 2006 11:56:42 +0000 (UTC)
X-Sender: tziRau1SlJeRbF6OI/pJQplh44CxR6pL
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7753

Hi
I'm looking for Direct reading SWR meter (schematics, pcb, solution,
ideas - anything)

Help please
MAc

PS - got QST 97/2


From -8314409038113359324
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!
news01.roc.ny.POSTED!fd24bd7a!not-for-mail
From: gwatts <gwatts@frontiernet.net>
User-Agent: Mozilla Thunderbird 1.0.6 (Windows/20050716)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<6bh2l2lfjr65mf9qevdr1o4nbcqouqtfnd@4ax.com>
In-Reply-To: <6bh2l2lfjr65mf9qevdr1o4nbcqouqtfnd@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 16
Message-ID: <nEk4h.4969$Ka1.989@news01.roc.ny>
X-Complaints-To: abuse-news@frontiernet.net
X-Trace:
52616e646f6d49567942aa9b802daf2fb34eb8727a942746e62a53d7948fa190405099ec8e9fbc618b
5584b1dac468740b39b8456f222081ee3fa09760f173ea688834e63130c1cabac2abc156dbad4b6c5c
ff0157504bc20693076778f4210d0f64d624d49df28e3905b8ba9341f2b89d666e2ab589dcb254d6d8
```

```
ee5081264d
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Wed, 08 Nov 2006 13:07:31 UTC
Date: Wed, 08 Nov 2006 13:07:31 GMT
Xref: g2news2.google.com rec.radio.amateur.antenna:21163
rec.radio.amateur.homebrew:7754 rec.radio.amateur.policy:53482 rec.radio.swap:9567

X-rated Vermonter wrote:
> On Wed, 08 Nov 2006 00:34:08 GMT, Slow Code <my.mail@no.spam> wrote:
>
>
>>When CW is gone, CB'ers will get the other bands too.
>>
>>
>>SC
>
> ++++++++
> I fail to see the connection between Country and Western music bands
> and amateur radio.  And what makes you think that Country and Western
> is endangered in the first place?

Country seems to be doing fine, Western might be sparse on the ground
but that's the nature of that beast.


From -3819905901306877299
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr21.news.prodigy.com.POSTED!00eff025!not-for-mail
From: Cecil Moore <mycall@hotmail.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<6bh2l2lfjr65mf9qevdr1o4nbcqouqtfnd@4ax.com>
<1162969031.058681.231590@e3g2000cwe.googlegroups.com>
In-Reply-To: <1162969031.058681.231590@e3g2000cwe.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 10
Message-ID: <PQk4h.23824$TV3.12566@newssvr21.news.prodigy.com>
NNTP-Posting-Host: 70.252.167.9
```

X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr21.news.prodigy.com 1162992047 ST000 70.252.167.9 (Wed, 08 Nov
2006 08:20:47 EST)
NNTP-Posting-Date: Wed, 08 Nov 2006 08:20:47 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
OP\YG\GFEB^UCWDYIBHZOWP@YZOZ@GXOXR]ZMVMHQAVTUZ]CLNTCPFK[WDXDHV[K^FCGJCJLPF_D_NCC@F
UG^Q\DINVAXSLIFXYJSSCCALP@PB@\OS@BITWAH\CQZKJMMD^SJA^NXA\GVLSRBD^M_NW_F[YLVTWIGAXA
QBOATKBBQRXECDFDMQ\DZFUE@\JM
Date: Wed, 08 Nov 2006 13:20:47 GMT
Xref: g2news2.google.com rec.radio.amateur.antenna:21164
rec.radio.amateur.homebrew:7755 rec.radio.amateur.policy:53483 rec.radio.swap:9568

kcdillon@rochester.rr.com wrote:
> Directory > Reference > Wikipedia continuous wave
> A continuous wave or continuous waveform (CW) is an electromagnetic
> wave of constant amplitude and frequency; and in mathematical analysis,
> of infinite duration.

Thus, a continuous wave is incapable of conveying
any information.
--
73, Cecil http://www.w5dxp.com

From -4461936693283530319
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe09.lga.POSTED!53ab2750!not-for-mail
Message-ID: <4551DB75.1080801@optonline.net>
From: Harry Gross <harry144@optonline.net>
User-Agent: Thunderbird 1.5.0.8 (Windows/20061025)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<6bh2l2lfjr65mf9qevdr1o4nbcqouqtfnd@4ax.com>
<1162969031.058681.231590@e3g2000cwe.googlegroups.com>
<PQk4h.23824$TV3.12566@newssvr21.news.prodigy.com>
In-Reply-To: <PQk4h.23824$TV3.12566@newssvr21.news.prodigy.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 19
X-Complaints-To: abuse@cv.net

```
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mgjcfpjdppbciligkannfilpcpbbolnmcdmcmmfjcojdhkgkjgocnlddckdhjhkafjedgbkbbchdkdppaf
omgpliiookcocokenjmjidaleobfiaofdcgckjdcpboopnenfnojecgjgcfcij
NNTP-Posting-Date: Wed, 08 Nov 2006 06:28:19 MST
Organization: Optimum Online
Date: Wed, 08 Nov 2006 08:28:21 -0500
Xref: g2news2.google.com rec.radio.amateur.antenna:21166
rec.radio.amateur.homebrew:7756 rec.radio.amateur.policy:53484 rec.radio.swap:9569
```

Cecil Moore wrote:
> kcdillon@rochester.rr.com wrote:
>> Directory > Reference > Wikipedia continuous wave
>> A continuous wave or continuous waveform (CW) is an electromagnetic
>> wave of constant amplitude and frequency; and in mathematical analysis,
>> of infinite duration.
>
> Thus, a continuous wave is incapable of conveying
> any information.

Um, not quite:-) The very presence of the CW signal conveys SOME
information (e.q. the fact that something is out there generating it:-)

It's the turning on and off of the wave that conveys most of the USEFUL
information:-) Which makes CW communication a DIGITAL mode, by the way.

Harry

```
From 8341010427631873085
X-Google-Thread: fc2a5,41f090f79cf9b4cd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Super Glue doesn't work any more
Date: 8 Nov 2006 05:30:00 -0800
Organization: http://groups.google.com
Lines: 26
Message-ID: <1162992599.838749.153980@m7g2000cwm.googlegroups.com>
References: <1162945128.879720@newsreg.cos.agilent.com>
NNTP-Posting-Host: 170.121.15.35
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1162992605 18603 127.0.0.1 (8 Nov 2006 13:30:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 8 Nov 2006 13:30:05 +0000 (UTC)
In-Reply-To: <1162945128.879720@newsreg.cos.agilent.com>
User-Agent: G2/1.0
```

X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=170.121.15.35;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news2.google.com rec.radio.amateur.homebrew:7757

Al Lorona wrote:
> Has anybody noticed that Super Glue (cyanoacrylate clear liquid glue) just
> doesn't seem to work any more? I remember when it first came out that it
> used to bond anything and everything. Lately, seems that I can't even fix my
> son's toys with it any more.
>
> Latest failure: Just tried to glue a small 12V DC fan for a PA with it and
> the bond came apart the next day pretty much by itself.

Many modern plastics are not effectively glued with plain old super glue (Well, for me modern is anything newer than Bakelite). There are some CA glues that include special activators to help stick to these plastics but they aren't magic bullets, they turn a failed joint into a marginal joint.

If you can rough up the surfaces involved (using more area than just the broken joint) and use a glue that will give a good fillet around the joint, that'll help. There are thick super glues and epoxies that help there.

It's very odd that a fan blade would have broken off all by itself. Usually indicates some sort of mechanical interference (guard loose, maybe bearings so worn that it's rubbing against something else.)

Tim.

From -2877954210504621754
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!newssvr29.news.prodigy.net.POSTED!00eff025!not-for-mail
From: Cecil Moore <mycall@hotmail.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.

```
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
<6bh2l2lfjr65mf9qevdr1o4nbcqouqtfnd@4ax.com>
<1162969031.058681.231590@e3g2000cwe.googlegroups.com>
<PQk4h.23824$TV3.12566@newssvr21.news.prodigy.com>
<4551DB75.1080801@optonline.net>
In-Reply-To: <4551DB75.1080801@optonline.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 14
Message-ID: <Xdn4h.7005$9v5.5642@newssvr29.news.prodigy.net>
NNTP-Posting-Host: 70.239.200.16
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr29.news.prodigy.net 1163001847 ST000 70.239.200.16 (Wed, 08 Nov
2006 11:04:07 EST)
NNTP-Posting-Date: Wed, 08 Nov 2006 11:04:07 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
Q[R_PJSCTS@]S\YYVBOD]_\@VR]^@B@MCPWZKB]MPXHTEPIB_NVUAH_[BL[\IRKIANGGJBFNJF_DOLSCEN
SY^U@FRFUEXR@KFXYDBPWBCDQJA@X_DCBHXR[C@\EOKCJLED_SZ@RMWYXYWE_P@\
\GOIW^@SYFFSWHFIXMADO@^[ADPRPETLBJ]RDGENSKQQZN
Date: Wed, 08 Nov 2006 16:04:07 GMT
Xref: g2news2.google.com rec.radio.amateur.antenna:21167
rec.radio.amateur.homebrew:7758 rec.radio.amateur.policy:53489 rec.radio.swap:9571

Harry Gross wrote:
>
> Cecil Moore wrote:
>> Thus, a continuous wave is incapable of conveying
>> any information.
>
> Um, not quite:-)  The very presence of the CW signal conveys SOME
> information (e.q. the fact that something is out there generating it:-)

"Information - an indication of the number of possible
choices of messages, expressible as the value of some
monotonic function of the number of choices."
--
73, Cecil  http://www.w5dxp.com


From -529964512071498915
X-Google-Thread: fcc6e,29eb3ac782a0dd0e
X-Google-Thread: fc2a5,29eb3ac782a0dd0e
X-Google-Thread: 10bf43,29eb3ac782a0dd0e
X-Google-Thread: 1109af,29eb3ac782a0dd0e
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newscon02.news.prodigy.net!
prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr11.news.prodigy.com.POSTED!d93218c8!not-for-mail
From: "JD" <andersonj@acu.edu>
Newsgroups:
```

```
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.swap
References: <4C94h.3637$L6.184@newsread3.news.pas.earthlink.net>
Subject: Re: FCC took 11 meters from Hams and gave it to CB'ers.
Lines: 9
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=original
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <rDn4h.1397$6t.321@newssvr11.news.prodigy.com>
NNTP-Posting-Host: 70.133.155.193
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr11.news.prodigy.com 1163003479 ST000 70.133.155.193 (Wed, 08 Nov
2006 11:31:19 EST)
NNTP-Posting-Date: Wed, 08 Nov 2006 11:31:19 EST
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
F[OQR_SOABPSP_@YMZJ\_Q\@TJ_ZTB\MV@BJ]Q]KEYUNDQUCCNSUAACY@L[ZX__HGFD]JBJNSFXTOOGA_V
WY^_HG@FW_HUTHOH]TBPGCO\P^PLP^@[GLHUK@WLECKFVL^TYG[@RMWQXIWM[SDDYWNLG_G[_BWUCHFY_Y
@AS@Q[B\APPF@DCZM_PG_VSCPQZM
Date: Wed, 08 Nov 2006 16:31:19 GMT
Xref: g2news2.google.com rec.radio.amateur.antenna:21168
rec.radio.amateur.homebrew:7759 rec.radio.amateur.policy:53494 rec.radio.swap:9572

Is this a Chat Room?
"Slow Code" <my.mail@no.spam> wrote in message
news:4C94h.3637$L6.184@newsread3.news.pas.earthlink.net...
>
> When CW is gone, CB'ers will get the other bands too.
>
>
> SC




From 5125240021458466411
X-Google-Thread: fc2a5,41f090f79cf9b4cd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i42g2000cwa.googlegroups.com!not-for-
mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Super Glue doesn't work any more
Date: 8 Nov 2006 11:59:13 -0800
Organization: http://groups.google.com
Lines: 41
```

Message-ID: <1163015953.635162.115650@i42g2000cwa.googlegroups.com>
References: <1162945128.879720@newsreg.cos.agilent.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Trace: posting.google.com 1163015957 9153 127.0.0.1 (8 Nov 2006 19:59:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 8 Nov 2006 19:59:17 +0000 (UTC)
In-Reply-To: <1162945128.879720@newsreg.cos.agilent.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i42g2000cwa.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7760

Al Lorona wrote:
> Has anybody noticed that Super Glue (cyanoacrylate clear liquid glue) just
> doesn't seem to work any more? I remember when it first came out that it
> used to bond anything and everything. Lately, seems that I can't even fix my
> son's toys with it any more.
>
> Latest failure: Just tried to glue a small 12V DC fan for a PA with it and
> the bond came apart the next day pretty much by itself.
>
> Al W6LX

FWIW, I've found a product called "Plas-T-Pair" to work in a lot of cases where "super glue" won't. Also, I've been using LocTite 444 "Tak Pak" alpha cyanoacrylate for other things, as it seems to work better than the thin mass-marketed superglues. LocTite 712 accelerator makes it set up quickly. In addition, any joint with stress (esp. tension) on it I'll augment with reinforcement of some sort. Lots of things work: embed a little scrap of cloth in the joint, drill mating holes and put in a peg made from wood dowel stock, or threaded rod (a cut-off machine screw, for example), or roughed-up steel wire, or even copper wire. Even wrapping sewing thread (or small steel wire) around the joint (if the geometry lets that work, so the thread crosses the joint multiple times) works wonders. Apply the idea of reinforcement creatively and you'll pretty much always get a much stronger repair. Even embedding chopped-up fiberglass in the glue will help. Hint: superglue alone is probably going to be fine in compression, so long as it's not subject to shock or excessive mositure, but in tension, it can benefit a lot from some help, especially if it adds reinforcement where the glue joint to the original pieces becomes shear instead of simple tension--i.e., adding pegs in holes.

>From your post, I'm not sure just what part of the fan you were gluing.
 If it was a broken blade, I'd expect to need to be very careful with the repair because there's a lot of stress on the blade when the fan is running, and adding mass will imbalance the blade if you're not

careful.

Cheers,
Tom

```
From -7592880981266955005
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: Sun, 29 Oct 2006 10:38:30 -0500
Message-ID: <omi9k2td5rip97jldt4qnefr2l9t2u1rh4@4ax.com>
References: <VLS%g.19224$UG4.10081@newsread2.news.pas.earthlink.net>
<nbvvj2lkthm4n6q28i6oc97bq4150dvmba@4ax.com>
<oYe0h.46828$vi3.35500@bignews3.bellsouth.net>
<7N2dnb_RFcRsD9zYnZ2dnUVZ_qOdnZ2d@rcn.net>
<Wwx0h.348$LI4.52@newsread2.news.pas.earthlink.net>
<18SdncXAx4hSK9_YnZ2dnUVZ_tydnZ2d@rcn.net>
<KgS0h.729$LI4.449@newsread2.news.pas.earthlink.net>
<1162081836.634673.117810@f16g2000cwb.googlegroups.com>
<q8qdnenKcds3PNnYnZ2dnUVZ_sadnZ2d@comcast.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 26
NNTP-Posting-Date: 29 Oct 2006 14:43:31 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6162
rec.radio.amateur.homebrew:7611 rec.radio.amateur.policy:52138 rec.radio.swap:9170
```

On Sun, 29 Oct 2006 07:42:20 -0500, Dave <W1MCE@comcast.net> wrote:

```
>an_old_friend
>
>I'm very tired of your whining. No-one is demanding anything of you except to
>stop whining. If you can't copy CW then give it up!
why should I care what you are tired of?
>
>an_old_friend wrote:
>
>> Slow Code wrote:
```

```
>>
>>>Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
>>>news:18SdncXAx4hSK9_YnZ2dnUVZ_tydnZ2d@rcn.net:
>>>
>>
>>
>>>Once you master the electronic key you'll wonder how you ever got by
>>>without one.  I used a straight key for years and then got an electronic
>>>one.  It made code more fun.  I tried a bug once, but after using the
>>>electronic key I lost my timing on the side to side stuff.
>>
>>
>> meaning you can't use CW MANUALY and you demand of me
>>
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From 6123652174066753587
X-Google-Thread: fc2a5,a210f357b74d7dd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 29 Oct 2006 09:56:06 -0600
Date: Sun, 29 Oct 2006 14:56:05 +0000
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/
20060910 SeaMonkey/1.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Crimp Tool Suggestions?
References: <r688k29k59mf5vg7uj5a9s73v29uakr9l8@4ax.com>
<MPG.1fade8f7dd6eb6fa989721@news.drizzle.com>
In-Reply-To: <MPG.1fade8f7dd6eb6fa989721@news.drizzle.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <9YKdnUqKn_-LUtnYRVnyvQ@pipex.net>
Lines: 50
NNTP-Posting-Host: 85.210.54.9
X-Trace: sv3-pNLBqy6azRxpmM3xk2QtaK6Jht1wDbaH/W8lzNIHdiP5pGlQj92vSg9a4CXAwStE/
yWZKEbxnCeYE8T!3P123QE4GwNeejyYC7uJ40n+xkRVdb//
q1I1ci5RtrjYvc3AF3k34HbVOJXzGXbQB9Vq2t21YZ5x!LxuAifP6Fg==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:7612

Dr. Anton T. Squeegee wrote:
> In article <r688k29k59mf5vg7uj5a9s73v29uakr9l8@4ax.com>,
> n_group@k6mhe.com (known to some as Danny Richardson) scribed...
>
>> Looking for suggestions for a good crimp tool for installing coax
>> connectors. It will primarily for BNC connectors on RG-174, 58 and 59
>> cables. Although the RG-8 cable family capability would be nice too.
>>
>> I do wish to avoid being a captive customer in that brand X crimp tool
>> only works well with brand X connectors.
>>
>> And, of course, looking for the best bang for the buck.
>
>   My take is that the best possible bang for the buck, as it were,
> may be had by searching Greed-bay for a surplus mil-spec hex crimper,
> such as the Daniels Manufacturing HX-4. This particular tool has
> interchangeable dies to accommodate a wide variety of coaxial
> connectors, as well as insulated terminal lugs.
>
>   They will tend to be more expensive, even at the surplus level,
> than your typical made-in-taiwan Paladin (or whoever) crimper, but the
> Daniels tools will also be of a much higher quality. Properly cared for,
> they may outlast their owner.
>
>   As some examples: Item #120044919904 is for a new HX-4 frame, in
> its original box, with a Y193 die set, opening bid of $79. Considering
> that the frame alone new, from Daniels, is nearly $280, that's quite a
> bargain.
>
>   Granted, the Y193 die set won't be useful to you unless you're
> crimping contact assemblies for the D-sub coax/regular combo connectors,
> but it should not be hard to find appropriate die sets for whatever
> connectors you want to work with.
>
>   A full description of the HX-4, and a listing of common dies for
> it, may be found at this link:
==
Crimping might be appropriate for a large volume of coax connectors.
However for a limited number of connectors as applicable to domestic
amateur radio a gland type of cable entry seems more to the point.
BNC- , PL259- and N-connectors are all available with braid sleeve
inserts which highly likely give a better (long term) braid/connector
connection than a crimped arrangement at least for RF ,especially when
used in an outdoor environment.
I do have a short lead with 2 PL259 connectors with both centre pin
and body crimped to RG58 coax which probably originates from the 'CB
trade' .The braid crimp is not a hexagon but cylindrical with side
ridges, like -O- . I would never want to make up leads this way myself.

Frank   GM0CSZ / KN6WH

From -5498181021764968579
X-Google-Thread: fc2a5,a210f357b74d7dd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!wn13feed!
worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
Message-ID: <4544DB4D.50C8AA81@criptool.net>
From: joe <crimp_tool_dude@criptool.net>
X-Mailer: Mozilla 4.79 [en] (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Crimp Tool Suggestions?
References: <r688k29k59mf5vg7uj5a9s73v29uakr9l8@4ax.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 11
Date: Sun, 29 Oct 2006 16:48:15 GMT
NNTP-Posting-Host: 12.76.215.83
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1162140495 12.76.215.83 (Sun, 29 Oct
2006 16:48:15 GMT)
NNTP-Posting-Date: Sun, 29 Oct 2006 16:48:15 GMT
Organization: AT&T Worldnet
Xref: g2news2.google.com rec.radio.amateur.homebrew:7613

Hi,

Ideal makes good quality crip tools and accessory dies
for just about anything hams will need.

http://www.idealindustries.com/index.htm

regards,

crimp tool dude

From -6875185513818171601
X-Google-Thread: fc2a5,be477d150f7a896a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!uns-
out.usenetserver.com!news.usenetserver.com!pc03.usenetserver.com!FUSE.NET-
a2kHrUvQQWlmc!not-for-mail
Date: Sun, 29 Oct 2006 13:16:24 -0500
From: jawod <jawod@fuse.net>
User-Agent: Mozilla Thunderbird 1.0.2 (Macintosh/20050317)
X-Accept-Language: en-us, en
MIME-Version: 1.0

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Anderson Powerpoles on Front Panel
References: <1161903099.814059@newsreg.cos.agilent.com>
<fmmck-3A086C.20472128102006@nntp.aioe.org>
In-Reply-To: <fmmck-3A086C.20472128102006@nntp.aioe.org>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <bb2eb$4544f09b$4831cf4b$32578@FUSE.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 14
X-Trace: bb2eb4544f09bed946aee32578
Xref: g2news2.google.com rec.radio.amateur.homebrew:7614

>
> I understand at least one Ham transceiver has been produced, possibly a
> Yaesu, with the pair mounted on the rear panel.
>
> 73,
> Fred
> K4DII

Elecraft K2/100 has power pole connectors on the rear panel. There are probably pix on their website...just google elecraft.

John
AB8O

From 4389124136345623488
X-Google-Thread: fc2a5,633a6fce694d0708
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr29.news.prodigy.net.POSTED!26ca9add!not-for-mail
From: Ron Giuntini <giu@sbcglobal.net>
Subject: Re: New to Ham
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2006.10.29.21.07.00.774348@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1160098752.441683.304190@c28g2000cwb.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 14
NNTP-Posting-Host: 75.44.19.114
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr29.news.prodigy.net 1162156018 ST000 75.44.19.114 (Sun, 29 Oct 2006 16:06:58 EST)
NNTP-Posting-Date: Sun, 29 Oct 2006 16:06:58 EST

```
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
SCSGW]CD@B^UCWDYIBHZOWP@YZOZ@GXOXZ^L\UQHWIWDUWYADNVOPCKZBL\NX_KHV^GY[KVMG^ZPNHSCZN
S[^UXFJVWYXVXKBH[XRWWBBDTN@AX\JSBVH]_@T\EKJHBMZ\_WZJFNRY]YWKSPED_U^NC\HSZ\WS[KEAYI
@DO@\K@BP\LD[\GTMPLDFVU]ASJM
Date: Sun, 29 Oct 2006 21:06:58 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7615

On Thu, 05 Oct 2006 18:39:12 -0700, Ed Byars wrote:

> I am going to buy a radio that I hope will last me many years. I want
> to start with a mobile that will also serve as a base station.I am
> looking at a YAESU FT-857D.
>
> Any comments on the pros or cons of this as a beginner radio that can
> stay with me as I develop my skills?

It is hard to go wrong with any Yaesu or Icom radio.  If you find you
prefer something else, there will be no problem trading or selling it,
assuming you will lose a bit of money after it has been used.  Chances are
very good you will not want to part with it...I wish I still had my first
radio...


From 6498235805587973750
X-Google-Thread: 108122,e9711cbb82f0c057
X-Google-Thread: 114aac,e9711cbb82f0c057
X-Google-Thread: fc2a5,e9711cbb82f0c057
X-Google-Thread: fcc6e,e9711cbb82f0c057
X-Google-Attributes: gid108122,gid114aac,gidfc2a5,gidfcc6e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!24.30.200.11!news-east.rr.com!news-
wrt-01.southeast.rr.com!news-wrt-01.tampabay.rr.com!news-feed-01.tampabay.rr.com!
news.rr.com!news-post.tampabay.rr.com!tornado.southeast.rr.com.POSTED!53ab2750!
not-for-mail
From: "Merlin-7 KI4ILB" <merlin-7@sc.rr.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.shortwave,rec.radio.amateur.homebrew,rec.rad
io.amateur.antenna
References: <MzK0h.33021$ta3.31232@tornado.texas.rr.com>
<SgS0h.730$LI4.24@newsread2.news.pas.earthlink.net>
<nus7k29pdmqeg8vroukcjmba8ifemqcsi5@4ax.com>
Subject: Re: Response to SC
Lines: 23
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Message-ID: <Vo91h.1331$nG1.778@tornado.southeast.rr.com>
Date: Sun, 29 Oct 2006 21:52:53 GMT
NNTP-Posting-Host: 75.176.152.86
X-Complaints-To: abuse@rr.com
```

X-Trace: tornado.southeast.rr.com 1162158773 75.176.152.86 (Sun, 29 Oct 2006 16:52:53 EST)
NNTP-Posting-Date: Sun, 29 Oct 2006 16:52:53 EST
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.equipment:6771 rec.radio.shortwave:57000 rec.radio.amateur.homebrew:7616 rec.radio.amateur.antenna:20771

If Slow Code left, I would miss him.

I do not agree with him most of the time. As a matter of fact, he is dead wrong a lot of the time.

At least he stands up for what he believes in.

I myself, do not think that every ham should have to be able to send/copy code at 20wpm no more that I think they should be tested on psk,rtty, slow scan tv. etc.

Some people have a passion for code and some have a passion for other modes. I use them all from time to time, and to be honest, after I move next year, I am going to work on my code a bit more when I have the time to do so.

However, I will still give him a hard time about his ranting. After all I have not heard anyone tell him that he is not a real ham because he does not have psk nailed down..HI HI
Joe
KI4ILB

From -1377451125074602901
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
From: Slow Code <my.mail@no.spam>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>

```
<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<VLS%g.19224$UG4.10081@newsread2.news.pas.earthlink.net>
<nbvvj2lkthm4n6q28i6oc97bq4150dvmba@4ax.com>
<oYe0h.46828$vi3.35500@bignews3.bellsouth.net>
<7N2dnb_RFcRsD9zYnZ2dnUVZ_qOdnZ2d@rcn.net>
<Wwx0h.348$LI4.52@newsread2.news.pas.earthlink.net>
<18SdncXAx4hSK9_YnZ2dnUVZ_tydnZ2d@rcn.net>
<KgS0h.729$LI4.449@newsread2.news.pas.earthlink.net>
<1162081836.634673.117810@f16g2000cwb.googlegroups.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 23
Message-ID: <f4c1h.1641$zf.780@newsread3.news.pas.earthlink.net>
Date: Mon, 30 Oct 2006 00:55:39 GMT
NNTP-Posting-Host: 4.254.230.194
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1162169739 4.254.230.194 (Sun, 29 Oct
2006 16:55:39 PST)
NNTP-Posting-Date: Sun, 29 Oct 2006 16:55:39 PST
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6166
rec.radio.amateur.homebrew:7617 rec.radio.amateur.policy:52217 rec.radio.swap:9212

"Markie in the Darkie" <konstans@hotmail.com> wrote in
news:1162081836.634673.117810@f16g2000cwb.googlegroups.com:

>
> Slow Code wrote:
>> Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
>> news:18SdncXAx4hSK9_YnZ2dnUVZ_tydnZ2d@rcn.net:
>>
>
>>
>> Once you master the electronic key you'll wonder how you ever got by
>> without one.  I used a straight key for years and then got an
>> electronic one.  It made code more fun.  I tried a bug once, but after
>> using the electronic key I lost my timing on the side to side stuff.
>
> meaning you can't use CW MANUALY and you demand of me


Markie you blithering idiot. You're against being a knowledgable ham so
bad you have no clue what I was even talking about.

SC




From -1613649223113701284
X-Google-Thread: 108122,e9711cbb82f0c057
X-Google-Thread: fc2a5,e9711cbb82f0c057
X-Google-Thread: fcc6e,e9711cbb82f0c057
X-Google-Thread: 10bf43,56365461ff0a19d0,start
X-Google-Attributes: gid108122,gidfc2a5,gidfcc6e,gid10bf43,public
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.amateur.policy
Subject: Re: Response to SC
From: Slow Code <my.mail@no.spam>
References: <MzK0h.33021$ta3.31232@tornado.texas.rr.com> <SgS0h.730$LI4.24@newsread2.news.pas.earthlink.net> <nus7k29pdmqeg8vroukcjmba8ifemqcsi5@4ax.com> <Vo91h.1331$nG1.778@tornado.southeast.rr.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 39
Message-ID: <o4c1h.1643$zf.236@newsread3.news.pas.earthlink.net>
Date: Mon, 30 Oct 2006 00:55:48 GMT
NNTP-Posting-Host: 4.254.230.194
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1162169748 4.254.230.194 (Sun, 29 Oct 2006 16:55:48 PST)
NNTP-Posting-Date: Sun, 29 Oct 2006 16:55:48 PST
Xref: g2news2.google.com rec.radio.amateur.equipment:6779 rec.radio.amateur.homebrew:7618 rec.radio.amateur.antenna:20785 rec.radio.amateur.policy:52218

"Merlin-7 KI4ILB" <merlin-7@sc.rr.com> wrote in news:Vo91h.1331$nG1.778@tornado.southeast.rr.com:

> If Slow Code left, I would miss him.
>
> I do not agree with him most of the time. As a matter of fact, he is
> dead
> wrong a lot of the time.
>
> At least he stands up for what he believes in.
>
> I myself, do not think that every ham should have to be able to
> send/copy
> code at 20wpm no more that I think they should be tested on psk,rtty,
> slow scan tv. etc.
>
> Some people have a passion for code and some have a passion for other
> modes. I use them all from time to time, and to be honest, after I move
> next year, I am going to work on my code a bit more when I have the time
> to do so.
>
> However, I will still give him a hard time about his ranting. After all
> I
> have not heard anyone tell him that he is not a real ham because he does
> not have psk nailed down..HI HI
> Joe

> KI4ILB

I was part of the big RRAP CW and anti-ARRL fights of the late 90's up until restructuring went into effect, then my posting tapered off. I'll disappear again once the FCC totally kills off ham radio by eliminating the code requirement. When that happens, I'll wear a strip of black electricians tape around my arm in memorial and observe twenty-four hours of radio silence in memory of a once proud service.

Rest in Peace, Ham Radio. You were a good and faithful friend.

SC

```
From 190095943220479582
X-Google-Thread: 108122,e9711cbb82f0c057
X-Google-Thread: fc2a5,e9711cbb82f0c057
X-Google-Thread: fcc6e,e9711cbb82f0c057
X-Google-Thread: 10bf43,56365461ff0a19d0
X-Google-Attributes: gid108122,gidfc2a5,gidfcc6e,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 29 Oct 2006 19:00:10 -0600
Date: Sun, 29 Oct 2006 20:00:13 -0500
From: Dave <W1MCE@comcast.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.4) Gecko/20030624
Netscape/7.1 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,r
ec.radio.amateur.policy
Subject: Re: Response to SC
References: <MzK0h.33021$ta3.31232@tornado.texas.rr.com>
<SgS0h.730$LI4.24@newsread2.news.pas.earthlink.net>
<nus7k29pdmqeg8vroukcjmba8ifemqcsi5@4ax.com>
<Vo91h.1331$nG1.778@tornado.southeast.rr.com>
<o4c1h.1643$zf.236@newsread3.news.pas.earthlink.net>
In-Reply-To: <o4c1h.1643$zf.236@newsread3.news.pas.earthlink.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <0_ednf6_o_oG09jYnZ2dnUVZ_tednZ2d@comcast.com>
Lines: 49
NNTP-Posting-Host: 71.233.173.68
X-Trace: sv3-NFBRR/KfI7sbH0MpR/
88Syi9YKCjpUCS9bOP0nvkirqbsGO4woO9oK5g3LDPw60FVRMhOmXTSZMLgBQ!/
8XWAutqP2mM9M2hZgWPvAbsvc+rOqa/qUD47EacUP73aI3vZPNfDN3TlYrtpODubkXAaCbCXcqB!
3maOaUU/WUbsUAfQTZMW
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
```

X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.equipment:6780
rec.radio.amateur.homebrew:7619 rec.radio.amateur.antenna:20787
rec.radio.amateur.policy:52229

Top posted ... opps!

Please, why don't you try 24 years of r.r.a.X silence instead of 24 hours of
fictitious promises.

Slow Code wrote:

> "Merlin-7 KI4ILB" <merlin-7@sc.rr.com> wrote in
> news:Vo91h.1331$nG1.778@tornado.southeast.rr.com:
>
>
>> If Slow Code left, I would miss him.
>>
>> I do not agree with him most of the time. As a matter of fact, he is
>> dead
>>wrong a lot of the time.
>>
>> At least he stands up for what he believes in.
>>
>> I myself, do not think that every ham should have to be able to
>> send/copy
>>code at 20wpm no more that I think they should be tested on psk,rtty,
>>slow scan tv. etc.
>>
>> Some people have a passion for code and some have a passion for other
>>modes. I use them all from time to time, and to be honest, after I move
>>next year, I am going to work on my code a bit more when I have the time
>>to do so.
>>
>> However, I will still give him a hard time about his ranting. After all
>> I
>>have not heard anyone tell him that he is not a real ham because he does
>>not have psk nailed down..HI HI
>> Joe
>> KI4ILB
>
>
>
> I was part of the big RRAP CW and anti-ARRL fights of the late 90's up
> until restructuring went into effect, then my posting tapered off. I'll
> disappear again once the FCC totally kills off ham radio by eliminating
> the code requirement. When that happens, I'll wear a strip of black
> electricians tape around my arm in memorial and observe twenty-four hours
> of radio silence in memory of a once proud service.
>

```
> Rest in Peace, Ham Radio.  You were a good and faithful friend.
>
> SC



From 1345097668981594047
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: Sun, 29 Oct 2006 20:22:34 -0500
Message-ID: <5tkak2hbji9hm9qiru1aae07m0vh7q1dd4@4ax.com>
References: <VLS%g.19224$UG4.10081@newsread2.news.pas.earthlink.net>
<nbvvj2lkthm4n6q28i6oc97bq4150dvmba@4ax.com>
<oYe0h.46828$vi3.35500@bignews3.bellsouth.net>
<7N2dnb_RFcRsD9zYnZ2dnUVZ_qOdnZ2d@rcn.net>
<Wwx0h.348$LI4.52@newsread2.news.pas.earthlink.net>
<18SdncXAx4hSK9_YnZ2dnUVZ_tydnZ2d@rcn.net>
<KgS0h.729$LI4.449@newsread2.news.pas.earthlink.net>
<1162081836.634673.117810@f16g2000cwb.googlegroups.com>
<f4c1h.1641$zf.780@newsread3.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 31
NNTP-Posting-Date: 30 Oct 2006 00:27:29 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6167
rec.radio.amateur.homebrew:7620 rec.radio.amateur.policy:52233 rec.radio.swap:9220

On Mon, 30 Oct 2006 00:55:39 GMT, Slow Code <my.mail@no.spam> wrote:

>"Markie in the Darkie" <konstans@hotmail.com> wrote in
>news:1162081836.634673.117810@f16g2000cwb.googlegroups.com:
>
>>
>> Slow Code wrote:
>>> Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
>>> news:18SdncXAx4hSK9_YnZ2dnUVZ_tydnZ2d@rcn.net:
>>>
>>
>>>
```

```
>>> Once you master the electronic key you'll wonder how you ever got by
>>> without one.  I used a straight key for years and then got an
>>> electronic one.  It made code more fun.  I tried a bug once, but after
>>> using the electronic key I lost my timing on the side to side stuff.
>>
>> meaning you can't use CW MANUALY and you demand of me
>
>
>Markie you blithering idiot.
I can sign my name and I can clla other by there name you can do
neither
> You're against being a knowledgable ham so
>bad you have no clue what I was even talking about.

I know exactly what you are talking about you have stated you don't
use manaul Morse Code at all
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From 6755266286787324326
X-Google-Thread: 108122,e9711cbb82f0c057
X-Google-Thread: fc2a5,e9711cbb82f0c057
X-Google-Thread: fcc6e,e9711cbb82f0c057
X-Google-Thread: 10bf43,56365461ff0a19d0
X-Google-Attributes: gid108122,gidfc2a5,gidfcc6e,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news2.volia.net!newsfeed01.sul.t-
online.de!t-online.de!news.csl-gmbh.net!feeder.news-service.com!news2.euro.net!
66.150.105.54.MISMATCH!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!
not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,r
ec.radio.amateur.policy
Subject: Re: Response to SC
Date: Sun, 29 Oct 2006 20:44:48 -0500
Message-ID: <j7mak2lfmppit9lh9uqago00sgk7i60juo@4ax.com>
References: <MzK0h.33021$ta3.31232@tornado.texas.rr.com>
<SgS0h.730$LI4.24@newsread2.news.pas.earthlink.net>
<nus7k29pdmqeg8vroukcjmba8ifemqcsi5@4ax.com>
<Vo91h.1331$nG1.778@tornado.southeast.rr.com>
<o4c1h.1643$zf.236@newsread3.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 44
```

NNTP-Posting-Date: 30 Oct 2006 00:49:43 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.equipment:6782
rec.radio.amateur.homebrew:7621 rec.radio.amateur.antenna:20797
rec.radio.amateur.policy:52260

On Mon, 30 Oct 2006 00:55:48 GMT, Slow Code <my.mail@no.spam> wrote:

>"Merlin-7 KI4ILB" <merlin-7@sc.rr.com> wrote in
>news:Vo91h.1331$nG1.778@tornado.southeast.rr.com:
>
>> If Slow Code left, I would miss him.
>>
>> I do not agree with him most of the time. As a matter of fact, he is
>> dead
>> wrong a lot of the time.
>>
>> At least he stands up for what he believes in.
>>
>> I myself, do not think that every ham should have to be able to
>> send/copy
>> code at 20wpm no more that I think they should be tested on psk,rtty,
>> slow scan tv. etc.
>>
>> Some people have a passion for code and some have a passion for other
>> modes. I use them all from time to time, and to be honest, after I move
>> next year, I am going to work on my code a bit more when I have the time
>> to do so.
>>
>> However, I will still give him a hard time about his ranting. After all
>> I
>> have not heard anyone tell him that he is not a real ham because he does
>> not have psk nailed down..HI HI
>> Joe
>> KI4ILB
>
>
>I was part of the big RRAP CW and anti-ARRL fights of the late 90's up
>until restructuring went into effect, then my posting tapered off. I'll
>disappear again once the FCC totally kills off ham radio by eliminating
>the code requirement.
you planing to turn in your licens ein protest
> When that happens, I'll wear a strip of black
>electricians tape around my arm in memorial and observe twenty-four hours
>of radio silence in memory of a once proud service.
>
>Rest in Peace, Ham Radio. You were a good and faithful friend.
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

```
From -2892297374164258248
X-Google-Thread: 106d41,9388be254342a28d,start
X-Google-Thread: 108122,e9711cbb82f0c057
X-Google-Thread: fc2a5,e9711cbb82f0c057
X-Google-Thread: fcc6e,e9711cbb82f0c057
X-Google-Thread: 10bf43,56365461ff0a19d0
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,gidfcc6e,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f16g2000cwb.googlegroups.com!not-for-
mail
From: "MarQueerMyDear" <dear_marqueer_marky@mail2princess.com>
Newsgroups:
rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amat
eur.antenna,rec.radio.amateur.policy
Subject: Re: Response Marqueer
Date: 29 Oct 2006 19:43:10 -0800
Organization: http://groups.google.com
Lines: 53
Message-ID: <1162179790.316284.25260@f16g2000cwb.googlegroups.com>
References: <MzK0h.33021$ta3.31232@tornado.texas.rr.com>
   <SgS0h.730$LI4.24@newsread2.news.pas.earthlink.net>
   <nus7k29pdmqeg8vroukcjmba8ifemqcsi5@4ax.com>
   <Vo91h.1331$nG1.778@tornado.southeast.rr.com>
   <o4c1h.1643$zf.236@newsread3.news.pas.earthlink.net>
   <j7mak2lfmppit9lh9uqago00sgk7i60juo@4ax.com>
NNTP-Posting-Host: 4.152.105.56
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162179794 17294 127.0.0.1 (30 Oct 2006 03:43:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 30 Oct 2006 03:43:14 +0000 (UTC)
In-Reply-To: <j7mak2lfmppit9lh9uqago00sgk7i60juo@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
yie6),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f16g2000cwb.googlegroups.com; posting-host=4.152.105.56;
   posting-account=6aC5ZQ0AAADhTzXlZDlHNVqLI6Q869m4
Xref: g2news2.google.com rec.radio.cb:21469 rec.radio.amateur.equipment:6789
rec.radio.amateur.homebrew:7622 rec.radio.amateur.antenna:20801
rec.radio.amateur.policy:52267


Mark@kb9rqz.aprs wrote:
> On Mon, 30 Oct 2006 00:55:48 GMT, Slow Code <my.mail@no.spam> wrote:
>
> >"Merlin-7 KI4ILB" <merlin-7@sc.rr.com> wrote in
> >news:Vo91h.1331$nG1.778@tornado.southeast.rr.com:
> >
> >>  If Slow Code left, I would miss him.
> >>
> >>  I do not agree with him most of the time. As a matter of fact, he is
> >>  dead
> >> wrong a lot of the time.
> >>
> >>  At least he stands up for what he believes in.
> >>
> >>  I myself, do not think that every ham should have to be able to
> >>  send/copy
> >> code at 20wpm no more that I think they should be tested on psk,rtty,
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> >>
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> >> to do so.
> >>
> >>  However, I will still give him a hard time about his ranting. After all
> >>  I
> >> have not heard anyone tell him that he is not a real ham because he does
> >> not have psk nailed down..HI HI
> >>  Joe
> >>  KI4ILB
> >
> >
> >I was part of the big RRAP CW and anti-ARRL fights of the late 90's up
> >until restructuring went into effect, then my posting tapered off.  I'll
> >disappear again once the FCC totally kills off ham radio by eliminating
> >the code requirement.
> you planing to turn in your licens ein protest
> > When that happens, I'll wear a strip of black
> >electricians tape around my arm in memorial and observe twenty-four hours
> >of radio silence in memory of a once proud service.
> >
> >Rest in Peace, Ham Radio.  You were a good and faithful friend.
> >
> >SC
> http://kb9rqz.blogspot.com/
>
> --
> Posted via a free Usenet account from http://www.teranews.com


STFU faggot




From -4273696327791534209
X-Google-Thread: fc2a5,a210f357b74d7dd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!
```

nx02.iad01.newshosting.com!newshosting.com!post02.iad01!not-for-mail
From: Dr. Anton T. Squeegee <SpammersBlow@dev.null>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Crimp Tool Suggestions?
Date: Sun, 29 Oct 2006 20:50:17 -0800
Message-ID: <MPG.1faf245f66f57738989724@news.drizzle.com>
References: <r688k29k59mf5vg7uj5a9s73v29uakr9l8@4ax.com>
<MPG.1fade8f7dd6eb6fa989721@news.drizzle.com> <9YKdnUqKn_-LUtnYRVnyvQ@pipex.net>
Organization: Blue Feather Technologies
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-15"
Content-Transfer-Encoding: 7bit
X-Newsreader: MicroPlanet Gravity v2.60
Cache-Post-Path: bubbleator.drizzle.com!unknown@mist97.drizzle.com
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
Lines: 48
X-Complaints-To: abuse@csolutions.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:7623

In article <9YKdnUqKn_-LUtnYRVnyvQ@pipex.net>, abcgm0csz.kn6whxyz@dsl.pipex.com (known to some as Highland Ham) scribed...

<snippety>

> > Granted, the Y193 die set won't be useful to you unless you're
> > crimping contact assemblies for the D-sub coax/regular combo connectors,
> > but it should not be hard to find appropriate die sets for whatever
> > connectors you want to work with.
> >
> > A full description of the HX-4, and a listing of common dies for
> > it, may be found at this link:
> ==
> Crimping might be appropriate for a large volume of coax connectors.
> However for a limited number of connectors as applicable to domestic
> amateur radio a gland type of cable entry seems more to the point.
> BNC- , PL259- and N-connectors are all available with braid sleeve
> inserts which highly likely give a better (long term) braid/connector
> connection than a crimped arrangement at least for RF ,especially when
> used in an outdoor environment.

I would be prepared to debate this. A properly-done crimp connection, made with high-quality connectors (I'm talking Amphenol RF or King) and done with a high-grade crimper will be gas-tight. If you enclose the whole thing in the sealant-lined heat-shrink tubing after you've made up and tested the cable, there's no reason it won't do just as well as a gland type.

And, with crimping, you stand a much lower chance of heat damage to the insulation. ;-)

> I do have a short lead with 2 PL259 connectors with both centre pin
> and body crimped to RG58 coax which probably originates from the 'CB

> trade' .The braid crimp is not a hexagon but cylindrical with side
> ridges, like -O- . I would never want to make up leads this way myself.

I absolutely agree. That's why I suggested the Daniels crimper. Its dies are all hexagon style, per mil specs.

Keep the peace(es).

--
Dr. Anton T. Squeegee, Director, Dutch Surrealist Plumbing Institute
(Known to some as Bruce Lane, KC7GR)
http://www.bluefeathertech.com -- kyrrin a/t bluefeathertech d-o=t calm
"Salvadore Dali's computer has surreal ports..."

```
From 2438152929405304588
X-Google-Thread: 106d41,9388be254342a28d
X-Google-Thread: 108122,e9711cbb82f0c057
X-Google-Thread: fc2a5,e9711cbb82f0c057
X-Google-Thread: fcc6e,e9711cbb82f0c057
X-Google-Thread: 10bf43,56365461ff0a19d0
X-Google-Attributes: gid106d41,gid108122,gidfc2a5,gidfcc6e,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.tele.dk!
feed118.news.tele.dk!news.tele.dk!small.news.tele.dk!skynet.be!
66.150.105.54.MISMATCH!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!
not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.cb,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amat
eur.antenna,rec.radio.amateur.policy
Subject: id theft is a crime
Date: Sun, 29 Oct 2006 23:55:49 -0500
Message-ID: <sb1bk2p8t70i61a8qb2n8k2fer7s9g09q6@4ax.com>
References: <MzK0h.33021$ta3.31232@tornado.texas.rr.com>
<SgS0h.730$LI4.24@newsread2.news.pas.earthlink.net>
<nus7k29pdmqeg8vroukcjmba8ifemqcsi5@4ax.com>
<Vo91h.1331$nG1.778@tornado.southeast.rr.com>
<o4c1h.1643$zf.236@newsread3.news.pas.earthlink.net>
<j7mak2lfmppit9lh9uqago00sgk7i60juo@4ax.com>
<1162179790.316284.25260@f16g2000cwb.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 16
NNTP-Posting-Date: 30 Oct 2006 04:00:42 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.cb:21472 rec.radio.amateur.equipment:6791
rec.radio.amateur.homebrew:7624 rec.radio.amateur.antenna:20803
rec.radio.amateur.policy:52275
```

On 29 Oct 2006 19:43:10 -0800, "MarQueerMyDear"
<dear_marqueer_marky@mail2princess.com> wrote:

>

>> Posted via a free Usenet account from http://www.teranews.com
>
>
>STFU faggot

no I do not take orders from criminals beside you don't even WANT to
shut up you want me to post so you can continue to spew your hate

Id theft is a crime and you remain a criminal a coward and a poor ham
if you are a ahm at all
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

```
From 8196975624472827877
X-Google-Thread: fc2a5,e3a86a2bf1c42d6d,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.media.kyoto-u.ac.jp!
newsfeeds.ihug.co.nz!ihug.co.nz!ken-transit.news.telstra.net!lon-
in.news.telstra.net!news.telstra.net!news-server.bigpond.net.au!53ab2750!not-for-
mail
From: David <dhuisman@bigpond.net.au>
Reply-To:  dhuisman@bigpond.net.au
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Help required with design
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 11
Message-ID: <gqi1h.55702$rP1.41396@news-server.bigpond.net.au>
Date: Mon, 30 Oct 2006 08:08:44 GMT
NNTP-Posting-Host: 143.238.97.114
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1162195724 143.238.97.114 (Mon, 30 Oct 2006
19:08:44 EST)
NNTP-Posting-Date: Mon, 30 Oct 2006 19:08:44 EST
Organization: BigPond Internet Services
Xref: g2news2.google.com rec.radio.amateur.homebrew:7625
```

I am looking to hire someone for a few hours to give me advice on a
design for VHF ASK radio transmitter and receiver that I have designed.

The design is running but I need to improve sensitivity a bit and TX output power.

If you are interested please contact me by email.

Regards

David

```
From 2648322402621110638
X-Google-Thread: fc2a5,38a7a583eb91acd0,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-
mail
From: skiswim@mail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Beautiful women, aged clones, and Ultimate Fighting Championship
Date: 30 Oct 2006 04:20:13 -0800
Organization: http://groups.google.com
Lines: 59
Message-ID: <1162210812.993801.272450@e3g2000cwe.googlegroups.com>
NNTP-Posting-Host: 66.174.79.239
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162210818 27142 127.0.0.1 (30 Oct 2006 12:20:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 30 Oct 2006 12:20:18 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=66.174.79.239;
   posting-account=fHXO3w0AAABxCqes8DWmBX4lcVajRha8
Xref: g2news2.google.com rec.radio.amateur.homebrew:7626
```

Friend,

I'm always looking for good and intelligent individuals like you to visit my website, www.ChezBrandon.com , and it has pictures of beautiful women, information about aged clones, and a link to Ultimate Fighting Championship, a very good show.

My name is Brandon, and I'm in my 20s, am a college student, and as lie detectors, both conventional and unconventional would show, I've never been sexually penetrated. Moreover, I could be shown pictures of X, Y, and Z, and it would show that I'm only sexually attracted to women.

The Murders of Our Leaders in Government were Stopped.

I, Brandon, can take lie detector and psychological tests, and I can go before a panel of truth detecting experts. I tell the truth. A mini-psychological test: 8 times 2 = 16, the world is round, not flat, and the year is 2006. Feel free to call me, my cellphone number is 503.740.0272 (United States based) and feel free to utilize a GK-1 voice truth detecting device too:

>From Congressmen Bill Frist to John Kerry to Dennis Hastert to Hillary Clinton to John Warner to Ron Wyden to Gordon Smith to John McCain to Joseph Lieberman to Nancy Pelosi to Diane Feinstein to Ted Kennedy to anyone else who happened to be in the Congressional chambers during either a joint session of Congress or a State of the Union address from Masons to Skull and Bones members to Secret Service agents to pages to visitors to other good individuals, they all would have been murdered, all of their accomplishments stripped away, their earned wealth stripped away, their homes stripped away, their family and friends stripped away. Moreover, someone else would have been sleeping with their spouses.

Elements of the Mossad, who wanted to bathe in the blood of our Congressmen as well as bathe in the blood of leaders around the world, and when they seized power they would, as confirmed by psychic vision and confirmed auditorially, "he's right; he's psychic," would outlaw most if not all organizations, including the Masons, and these elements as Victor Ostrovsky writes about in his #1 New York Times bestseller By Way of Deception are out of control, notoriously lie, and have a disregard for life -- I was able, thank God, to thwart the conquest of the USA and the world, and was able to thwart the murder of United States and world leaders, via a psychic vision of Senator John Warner and other Congressmen being choked to death by gas, which was confirmed auditorially from both ears, such as "He saved Congress," who they were going to kill "all of them,""how did he know that?" and "he's psychic" -- murdered my biological Aunt Gloria Atkinson, whom I loved very much, as she did of me, and there is a tribute to her on my website. Please, friend, be sure to barricade your bedroom door at night. I'm not afraid of aged clones or the attempted chopping off of my appendages (elements of the Mossad talked about chopping off my right middle finger and right ear, and 10 out of 10 of my toes, like my right middle finger have unique steeple designs).

I'm not afraid of anything. I'll defend myself to the best of my ability, and I commit my life to saving the lives of men, women, and children and strengthening good organizations. I will always remember my biological Aunt Gloria Atkinson. Sincerely, Brandon

From -3867472938451117995
X-Google-Thread: fc2a5,a210f357b74d7dd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!newsfeed.news2me.com!news-in-01.newsfeed.easynews.com!news-in-02.newsfeed.easynews.com!easynews.com!easynews!sn-xt-sjc-03!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Crimp Tool Suggestions?
Date: Mon, 30 Oct 2006 12:14:39 -0800
Organization: EZNEC Antenna Software
Message-ID: <12kcn9k25vrlub2@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <r688k29k59mf5vg7uj5a9s73v29uakr9l8@4ax.com>
<MPG.1fade8f7dd6eb6fa989721@news.drizzle.com> <9YKdnUqKn_-LUtnYRVnyvQ@pipex.net>
<MPG.1faf245f66f57738989724@news.drizzle.com>
In-Reply-To: <MPG.1faf245f66f57738989724@news.drizzle.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 48
Xref: g2news2.google.com rec.radio.amateur.homebrew:7627

Dr. Anton T. Squeegee wrote:
>
> I would be prepared to debate this. A properly-done crimp connection, made with high-quality connectors (I'm talking Amphenol RF or King) and done with a high-grade crimper will be gas-tight. If you enclose the whole thing in the sealant-lined heat-shrink tubing after you've made up and tested the cable, there's no reason it won't do just as well as a gland type.

I keep reading that crimp connections are more reliable than clamp type, but my experience sure runs contrary to that conclusion. I have a sizable quantity of patch and longer RG-58 cables with crimped BNC connectors. Most are from the Tektronix surplus outlet, but some from other industrial sources. All were presumably made by skilled people with the proper equipment, and they were manufactured over a long period of time. Yet on many cables, the outer insulation has pulled out from under the crimp, leaving bare shield. Besides an obvious entry point for water if used outside, the shield wires begin breaking from flexing against the hard crimp connector end. In contrast, I've never had a failure of cables I've made myself with crimp type connectors, although some have gotten very severe and prolonged use.

I imagine that adding sealant-type heat shrink tubing would delay the onset of the insulation migration problem and reduce shield breakage after it occurs. But that's an extra step not required for clamp-type connectors.

In addition, some "precision" cables made with double-shielded cable were very RF-leaky at the connectors, a problem I solved by replacing the crimp connectors with clamp type.

So I have what I've read on the one hand, and what I've experienced on the other. The only conclusion I can reach is that it must be a lot more difficult to "properly" assemble a crimp connector than most people realize. I figure that if the pros have so much trouble doing it right, I don't have a chance. I'll stick with clamp type. My feeling is that the reason that crimp connectors have become so popular doesn't have anything to do with reliability but simply that they're faster to assemble and therefore cheaper.

> And, with crimping, you stand a much lower chance of heat damage to
> the insulation. ;-)

The only heat involved with clamp type connectors is in soldering the center pin. Hopefully most people can manage that -- I've never had a problem, anyway.

Roy Lewallen, W7EL

From 1244778312468906233
X-Google-Thread: fc2a5,45f7743590ba6b47,start
X-Google-Thread: fcc6e,cf430b37a65615ef
X-Google-Thread: 10bf43,45f7743590ba6b47,start
X-Google-Attributes: gidfc2a5,gidfcc6e,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.amateur.policy
Subject: Re: Coax Crimp Tool Recommendation?
From: Slow Code <my.mail@no.spam>
References: <eec7k2567skgaqf8i9gn7l0ls322c5f49h@4ax.com> <Ro-dnR7I2LS-Lt7YnZ2dnUVZ_o-dnZ2d@comcast.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 28
Message-ID: <AQw1h.8$L6.5@newsread3.news.pas.earthlink.net>
Date: Tue, 31 Oct 2006 00:32:32 GMT
NNTP-Posting-Host: 4.228.228.61
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1162254752 4.228.228.61 (Mon, 30 Oct 2006 16:32:32 PST)
NNTP-Posting-Date: Mon, 30 Oct 2006 16:32:32 PST
Xref: g2news2.google.com rec.radio.amateur.homebrew:7628 rec.radio.amateur.antenna:20836 rec.radio.amateur.policy:52353

Dave <W1MCE@comcast.net> wrote in news:Ro-dnR7I2LS-Lt7YnZ2dnUVZ_o-dnZ2d@comcast.com:

> Solder??

I know how you feel. I felt the same way after hearing there would be 5wpm Extras.

> Danny Richardson wrote:
>
>> Looking for suggestions for a good crimp tool for installing coax
>> connectors. It will primarily for BNC connectors on RG-174, 58 and 59
>> cables. Although the RG-8 cable family capability would be nice too.
>>
>> I do wish to avoid being a captive customer in that brand X crimp tool
>> only works well with brand X connectors.
>>
>> And, of course, looking for the best bank for the buck.
>>
>> Thanks,
>>
>> Danny
>
>

From -2343249622550237197
X-Google-Thread: fc2a5,a210f357b74d7dd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!tethys.csu.net!nntp.csufresno.edu!sn-xt-sjc-02!
sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Crimp Tool Suggestions?
Date: Mon, 30 Oct 2006 18:11:50 -0800
Organization: EZNEC Antenna Software
Message-ID: <12kdc7ankh3m346@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <r688k29k59mf5vg7uj5a9s73v29uakr9l8@4ax.com>
<MPG.1fade8f7dd6eb6fa989721@news.drizzle.com> <9YKdnUqKn_-LUtnYRVnyvQ@pipex.net>
<MPG.1faf245f66f57738989724@news.drizzle.com> <12kcn9k25vrlub2@corp.supernews.com>
In-Reply-To: <12kcn9k25vrlub2@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 14
Xref: g2news2.google.com rec.radio.amateur.homebrew:7629

Correction:

Roy Lewallen wrote:

> . .
> against the hard crimp connector end. In contrast, I've never had a
> failure of cables I've made myself with crimp type connectors, although
> some have gotten very severe and prolonged use.
> . .

That last sentence should read ". . .with *clamp* type connectors. . ."
I've never made a crimp type myself.

Roy Lewallen, W7EL

From -7252308910179360123
X-Google-Thread: 106d41,f498352cbd7c3418,start
X-Google-Thread: fc2a5,38a7a583eb91acd0
X-Google-Thread: 10f7a7,f498352cbd7c3418,start
X-Google-Thread: 101046,f498352cbd7c3418,start
X-Google-Thread: 10bf43,f498352cbd7c3418,start
X-Google-Attributes: gid106d41,gidfc2a5,gid10f7a7,gid101046,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f16g2000cwb.googlegroups.com!not-for-
mail
From: "MarQueerMyDear" <dear_marqueer_marky@mail2princess.com>
Newsgroups:
rec.radio.cb,rec.radio.amateur.homebrew,alt.usenet.kooks,alt.radio,rec.radio.amate
ur.policy
Subject: Re: Beautiful women, aged clones, and Ultimate Fighting Championship
marqueer sucking cock
Date: 30 Oct 2006 19:23:11 -0800
Organization: http://groups.google.com
Lines: 61
Message-ID: <1162264991.536297.203390@f16g2000cwb.googlegroups.com>
References: <1162210812.993801.272450@e3g2000cwe.googlegroups.com>
NNTP-Posting-Host: 4.154.48.22
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162264995 713 127.0.0.1 (31 Oct 2006 03:23:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 31 Oct 2006 03:23:15 +0000 (UTC)
In-Reply-To: <1162210812.993801.272450@e3g2000cwe.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
yie6),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f16g2000cwb.googlegroups.com; posting-host=4.154.48.22;
   posting-account=6aC5ZQ0AAADhTzXlZDlHNVqLI6Q869m4
Xref: g2news2.google.com rec.radio.cb:21525 rec.radio.amateur.homebrew:7630
alt.usenet.kooks:259104 alt.radio:430 rec.radio.amateur.policy:52408

skiswim@mail.com wrote:
> Friend,
>
> I'm always looking for good and intelligent individuals like you to
> visit my website, www.ChezBrandon.com , and it has pictures of
> beautiful women, information about aged clones, and a link to Ultimate
> Fighting Championship, a very good show.
>

> My name is Brandon, and I'm in my 20s, am a college student, and as lie detectors, both conventional and unconventional would show, I've never been sexually penetrated. Moreover, I could be shown pictures of X, Y, and Z, and it would show that I'm only sexually attracted to women.
>
> The Murders of Our Leaders in Government were Stopped.
>
> I, Brandon, can take lie detector and psychological tests, and I can go before a panel of truth detecting experts. I tell the truth. A mini-psychological test: 8 times 2 = 16, the world is round, not flat, and the year is 2006. Feel free to call me, my cellphone number is 503.740.0272 (United States based) and feel free to utilize a GK-1 voice truth detecting device too:
>
> >From Congressmen Bill Frist to John Kerry to Dennis Hastert to Hillary Clinton to John Warner to Ron Wyden to Gordon Smith to John McCain to Joseph Lieberman to Nancy Pelosi to Diane Feinstein to Ted Kennedy to anyone else who happened to be in the Congressional chambers during either a joint session of Congress or a State of the Union address from Masons to Skull and Bones members to Secret Service agents to pages to visitors to other good individuals, they all would have been murdered, all of their accomplishments stripped away, their earned wealth stripped away, their homes stripped away, their family and friends stripped away. Moreover, someone else would have been sleeping with their spouses.
>
> Elements of the Mossad, who wanted to bathe in the blood of our Congressmen as well as bathe in the blood of leaders around the world, and when they seized power they would, as confirmed by psychic vision and confirmed auditorially, "he's right; he's psychic," would outlaw most if not all organizations, including the Masons, and these elements as Victor Ostrovsky writes about in his #1 New York Times bestseller By Way of Deception are out of control, notoriously lie, and have a disregard for life -- I was able, thank God, to thwart the conquest of the USA and the world, and was able to thwart the murder of United States and world leaders, via a psychic vision of Senator John Warner and other Congressmen being choked to death by gas, which was confirmed auditorially from both ears, such as "He saved Congress," who they were going to kill "all of them,""how did he know that?" and "he's psychic" -- murdered my biological Aunt Gloria Atkinson, whom I loved very much, as she did of me, and there is a tribute to her on my website. Please, friend, be sure to barricade your bedroom door at night. I'm not afraid of aged clones or the attempted chopping off of my appendages (elements of the Mossad talked about chopping off my right middle finger and right ear, and 10 out of 10 of my toes, like my right middle finger have unique steeple designs).
>
> I'm not afraid of anything. I'll defend myself to the best of my ability, and I commit my life to saving the lives of men, women, and children and strengthening good organizations. I will always remember my biological Aunt Gloria Atkinson. Sincerely, Brandon

```
From -3172125680134598429
X-Google-Thread: 106d41,f498352cbd7c3418
X-Google-Thread: fc2a5,38a7a583eb91acd0
X-Google-Thread: 101046,f498352cbd7c3418
X-Google-Thread: 10bf43,f498352cbd7c3418
X-Google-Attributes: gid106d41,gidfc2a5,gid101046,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-
mail
From: "kb9rqz-3@hotmail.com" <kb9rqz-3@hotmail.com>
Newsgroups:
rec.radio.cb,rec.radio.amateur.homebrew,alt.radio,rec.radio.amateur.policy
Subject: id theft remans a crime
Followup-To: alt.test
Date: 30 Oct 2006 19:28:39 -0800
Organization: http://groups.google.com
Lines: 5
Message-ID: <1162265319.071100.161730@b28g2000cwb.googlegroups.com>
References: <1162210812.993801.272450@e3g2000cwe.googlegroups.com>
   <1162264991.536297.203390@f16g2000cwb.googlegroups.com>
NNTP-Posting-Host: 66.82.9.52
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162265323 1528 127.0.0.1 (31 Oct 2006 03:28:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 31 Oct 2006 03:28:43 +0000 (UTC)
In-Reply-To: <1162264991.536297.203390@f16g2000cwb.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=66.82.9.52;
   posting-account=vabA-g0AAAC3tggcfSrWfhO2dbMGKxv2
Xref: g2news2.google.com rec.radio.cb:21526 rec.radio.amateur.homebrew:7631
alt.radio:431 rec.radio.amateur.policy:52410
```

MarQueerMyDear wrote:
>
and always will be one get help woger

```
From -5301840043683604998
X-Google-Thread: fc2a5,9be69cd16339f9a5
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-
mail
From: "Telstar Electronics" <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: APOLOGIES AND CORRECTION - FS - stuff
```

```
Date: 31 Oct 2006 04:49:19 -0800
Organization: http://groups.google.com
Lines: 4
Message-ID: <1162298959.865118.192730@h48g2000cwc.googlegroups.com>
References: <45426b87$0$13830$ecde5a14@news.coretel.net>
   <45426c3a$0$13825$ecde5a14@news.coretel.net>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162298965 21927 127.0.0.1 (31 Oct 2006 12:49:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 31 Oct 2006 12:49:25 +0000 (UTC)
In-Reply-To: <45426c3a$0$13825$ecde5a14@news.coretel.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h48g2000cwc.googlegroups.com; posting-host=216.203.30.4;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news2.google.com rec.radio.amateur.homebrew:7632
```

Sounds like a job for Ebay...

http://www.telstar-electronics.com/default_files/CompetingModels.htm

```
From 1008437163187628397
X-Google-Thread: fc2a5,eb4685452206c2fe,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!tudelft.nl!
txtfeed1.tudelft.nl!newsfeed.CARNet.hr!not-for-mail
From: "mtech" <marin.zorica/REMOVE/@zd.t-com.hr>
Newsgroups: rec.radio.amateur.homebrew
Subject: 144 MHz Amplifer
Date: Tue, 31 Oct 2006 21:21:40 +0100
Organization: CARNet, Croatia
Lines: 9
Message-ID: <ei8b87$74t$1@news1.carnet.hr>
NNTP-Posting-Host: cmung2295.cmu.carnet.hr
X-Trace: news1.carnet.hr 1162326087 7325 193.198.137.9 (31 Oct 2006 20:21:27 GMT)
X-Complaints-To: abuse@CARNet.hr
NNTP-Posting-Date: Tue, 31 Oct 2006 20:21:27 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2670
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2670
X-RFC2646: Format=Flowed; Original
Xref: g2news2.google.com rec.radio.amateur.homebrew:7633
```

Hi;

I need a schematic of a 50W or less 144MHz PA, with about 5W input......

The PA isn't big problem I'm worried, but real problem is switching RX/TX.....

```
From -4085870280212109778
X-Google-Thread: 106d41,37c4f2646dec012e,start
X-Google-Thread: fc2a5,45f7743590ba6b47
X-Google-Thread: fcc6e,cf430b37a65615ef
X-Google-Thread: 10bf43,45f7743590ba6b47
X-Google-Thread: 10f7a7,37c4f2646dec012e,start
X-Google-Attributes: gid106d41,gidfc2a5,gidfcc6e,gid10bf43,gid10f7a7,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: "I PUNCE" <markpunce@yahoo.com>
Newsgroups:
rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.amateu
r.policy,alt.usenet.kooks
Subject: Re: Coax Crimp Tool Recommendation?
Date: 31 Oct 2006 16:31:41 -0800
Organization: http://groups.google.com
Lines: 32
Message-ID: <1162341101.724699.283610@m7g2000cwm.googlegroups.com>
References: <eec7k2567skgaqf8i9gn7l0ls322c5f49h@4ax.com>
   <Ro-dnR7I2LS-Lt7YnZ2dnUVZ_o-dnZ2d@comcast.com>
   <AQw1h.8$L6.5@newsread3.news.pas.earthlink.net>
NNTP-Posting-Host: 4.154.49.127
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162341106 2112 127.0.0.1 (1 Nov 2006 00:31:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 1 Nov 2006 00:31:46 +0000 (UTC)
In-Reply-To: <AQw1h.8$L6.5@newsread3.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
yie6),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=4.154.49.127;
   posting-account=bZxC7w0AAACLQ3SNsCY-6JhHg9HUE_bg
Xref: g2news2.google.com rec.radio.cb:21561 rec.radio.amateur.homebrew:7634
rec.radio.amateur.antenna:20882 rec.radio.amateur.policy:52480
alt.usenet.kooks:259632
```

Slow Code wrote:
> Dave <W1MCE@comcast.net> wrote in
> news:Ro-dnR7I2LS-Lt7YnZ2dnUVZ_o-dnZ2d@comcast.com:
>

```
> > Solder??
>
>
> I know how you feel.  I felt the same way after hearing there would be
> 5wpm Extras.
>
>
>
> > Danny Richardson wrote:
> >
> >> Looking for suggestions for a good crimp tool for installing coax
> >> connectors. It will primarily for BNC connectors on RG-174, 58 and 59
> >> cables. Although the RG-8 cable family capability would be nice too.
> >>
> >> I do wish to avoid being a captive customer in that brand X crimp tool
> >> only works well with brand X connectors.
> >>
> >> And, of course, looking for the best bank for the buck.
> >>
> >> Thanks,
> >>
> >> Danny
> >
> >

wait till hf is filled with marqueer extras




From 7012862042303192861
X-Google-Thread: 106d41,37c4f2646dec012e
X-Google-Thread: fc2a5,45f7743590ba6b47
X-Google-Thread: fcc6e,cf430b37a65615ef
X-Google-Thread: 10bf43,45f7743590ba6b47
X-Google-Thread: 10f7a7,37c4f2646dec012e
X-Google-Attributes: gid106d41,gidfc2a5,gidfcc6e,gid10bf43,gid10f7a7,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!
stamper.news.pas.earthlink.net!newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!
not-for-mail
Newsgroups:
rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.amateu
r.policy,alt.usenet.kooks
Subject: Re: Coax Crimp Tool Recommendation?
From: Slow Code <my.mail@no.spam>
References: <eec7k2567skgaqf8i9gn7l0ls322c5f49h@4ax.com> <Ro-dnR7I2LS-
Lt7YnZ2dnUVZ_o-dnZ2d@comcast.com> <AQw1h.8$L6.5@newsread3.news.pas.earthlink.net>
<1162341101.724699.283610@m7g2000cwm.googlegroups.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 40
Message-ID: <05S1h.577$l25.354@newsread4.news.pas.earthlink.net>
```

```
Date: Wed, 01 Nov 2006 00:43:40 GMT
NNTP-Posting-Host: 4.228.228.97
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1162341820 4.228.228.97 (Tue, 31 Oct
2006 16:43:40 PST)
NNTP-Posting-Date: Tue, 31 Oct 2006 16:43:40 PST
Xref: g2news2.google.com rec.radio.cb:21566 rec.radio.amateur.homebrew:7635
rec.radio.amateur.antenna:20884 rec.radio.amateur.policy:52485
alt.usenet.kooks:259642

"I PUNCE" <markpunce@yahoo.com> wrote in
news:1162341101.724699.283610@m7g2000cwm.googlegroups.com:

>
> Slow Code wrote:
>> Dave <W1MCE@comcast.net> wrote in
>> news:Ro-dnR7I2LS-Lt7YnZ2dnUVZ_o-dnZ2d@comcast.com:
>>
>> > Solder??
>>
>>
>> I know how you feel.  I felt the same way after hearing there would be
>> 5wpm Extras.
>>
>>
>>
>> > Danny Richardson wrote:
>> >
>> >> Looking for suggestions for a good crimp tool for installing coax
>> >> connectors. It will primarily for BNC connectors on RG-174, 58 and
>> >> 59 cables. Although the RG-8 cable family capability would be nice
>> >> too.
>> >>
>> >> I do wish to avoid being a captive customer in that brand X crimp
>> >> tool only works well with brand X connectors.
>> >>
>> >> And, of course, looking for the best bank for the buck.
>> >>
>> >> Thanks,
>> >>
>> >> Danny
>> >
>> >
>
> wait till hf is filled with marqueer extras


Shit. You just made halloween scary.

SC


From -3790237384871901711
```

```
X-Google-Thread: 106d41,37c4f2646dec012e
X-Google-Thread: fc2a5,45f7743590ba6b47
X-Google-Thread: fcc6e,cf430b37a65615ef
X-Google-Thread: 10bf43,45f7743590ba6b47
X-Google-Attributes: gid106d41,gidfc2a5,gidfcc6e,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.amateu
r.policy
Subject: id theft is acrime
Date: Tue, 31 Oct 2006 20:14:43 -0500
Message-ID: <f7tfk2h5ugaacamnielrs8ddvbk7pj5are@4ax.com>
References: <eec7k2567skgaqf8i9gn7l0ls322c5f49h@4ax.com> <Ro-dnR7I2LS-
Lt7YnZ2dnUVZ_o-dnZ2d@comcast.com> <AQw1h.8$L6.5@newsread3.news.pas.earthlink.net>
<1162341101.724699.283610@m7g2000cwm.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 5
NNTP-Posting-Date: 01 Nov 2006 00:19:39 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.cb:21569 rec.radio.amateur.homebrew:7636
rec.radio.amateur.antenna:20889 rec.radio.amateur.policy:52535

On 31 Oct 2006 16:31:41 -0800, "I PUNCE" <markpunce@yahoo.com> wrote:

>
and you knwo that
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From 7428512186456072117
X-Google-Thread: 108122,e9711cbb82f0c057
X-Google-Thread: fc2a5,e9711cbb82f0c057
X-Google-Thread: fcc6e,e9711cbb82f0c057
X-Google-Thread: 10bf43,56365461ff0a19d0
X-Google-Attributes: gid108122,gidfc2a5,gidfcc6e,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!news-
server.columbus.rr.com!cyclone2.kc.rr.com!news2.kc.rr.com!news-
post.tampabay.rr.com!southeast.rr.com.POSTED!53ab2750!not-for-mail
From: RadioGuy <RadioGuy@radioguy.com>
Newsgroups:
```

```
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,r
ec.radio.amateur.policy
Subject: Re: Response to SC
Message-ID: <MPG.1fb1d529a82a361c989a8e@news-server.carolina.rr.com>
References: <MzK0h.33021$ta3.31232@tornado.texas.rr.com>
<SgS0h.730$LI4.24@newsread2.news.pas.earthlink.net>
<nus7k29pdmqeg8vroukcjmba8ifemqcsi5@4ax.com>
<Vo91h.1331$nG1.778@tornado.southeast.rr.com>
<o4c1h.1643$zf.236@newsread3.news.pas.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-15"
Content-Transfer-Encoding: 7bit
X-Newsreader: MicroPlanet Gravity v2.60
Lines: 45
Date: Wed, 01 Nov 2006 02:49:01 GMT
NNTP-Posting-Host: 71.75.185.54
X-Complaints-To: abuse@rr.com
X-Trace: southeast.rr.com 1162349341 71.75.185.54 (Tue, 31 Oct 2006 21:49:01 EST)
NNTP-Posting-Date: Tue, 31 Oct 2006 21:49:01 EST
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.equipment:6814
rec.radio.amateur.homebrew:7637 rec.radio.amateur.antenna:20893
rec.radio.amateur.policy:52568

In article <o4c1h.1643$zf.236@newsread3.news.pas.earthlink.net>,
my.mail@no.spam says...
> "Merlin-7 KI4ILB" <merlin-7@sc.rr.com> wrote in
> news:Vo91h.1331$nG1.778@tornado.southeast.rr.com:
>
> >  If Slow Code left, I would miss him.
> >
> >  I do not agree with him most of the time. As a matter of fact, he is
> >  dead
> > wrong a lot of the time.
> >
> >  At least he stands up for what he believes in.
> >
> >  I myself, do not think that every ham should have to be able to
> >  send/copy
> > code at 20wpm no more that I think they should be tested on psk,rtty,
> > slow scan tv. etc.
> >
> >  Some people have a passion for code and some have a passion for other
> > modes. I use them all from time to time, and to be honest, after I move
> > next year, I am going to work on my code a bit more when I have the time
> > to do so.
> >
> >  However, I will still give him a hard time about his ranting. After all
> >  I
> > have not heard anyone tell him that he is not a real ham because he does
> > not have psk nailed down..HI HI
> >  Joe
> >  KI4ILB
```

>
>
> I was part of the big RRAP CW and anti-ARRL fights of the late 90's up until restructuring went into effect, then my posting tapered off. I'll disappear again once the FCC totally kills off ham radio by eliminating the code requirement. When that happens, I'll wear a strip of black electricians tape around my arm in memorial and observe twenty-four hours of radio silence in memory of a once proud service.
>
> Rest in Peace, Ham Radio. You were a good and faithful friend.
>
> SC
>

We could only hope you observe 24 years of newsgroup silence. By then you'd be in the grave.

From 3959814641599973074
X-Google-Thread: fc2a5,bad500f3aa10c331
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!newsfeed.news2me.com!sn-xt-sjc-05!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: More on matching -- Xtal filters this time
Date: Wed, 1 Nov 2006 14:22:06 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12ki7ggkmpri856@corp.supernews.com>
References: <12k4rjn1n65i834@corp.supernews.com>
<1162029602.978485.26040@h48g2000cwc.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 14
Xref: g2news2.google.com rec.radio.amateur.homebrew:7638

Thanks for the help, Andy... I muddled through it (it's a little odd the first time you've normalized your Smith chart to 1800 ohms and the termination is 50 ohms!) and the filters do work as their data sheets say.

I did find that xtal filters can easily drive a network analyzer nuts... even for looking at a single frequency, I had to significantly increase the sampling time well above the default to get a stable display. I'm thinking this is due to the absurdly high Q of the crystals causing a very long transient response, thereby necessitating a long sampling time to finally measure the steady state response.

---Joel

```
From -6358571936002631 36
X-Google-Thread: fc2a5,7e347827435f6d63,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!wn14feed!
worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: NOS NATIONAL RF CHOKES + STUFF
Lines: 7
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <rU92h.166140$QZ1.4442@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: f6412b5732eda49713c7142a963d694c
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1162422935
f6412b5732eda49713c7142a963d694c (Wed, 01 Nov 2006 23:15:35 GMT)
NNTP-Posting-Date: Wed, 01 Nov 2006 23:15:35 GMT
Organization: AT&T Worldnet
Date: Wed, 01 Nov 2006 23:15:35 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7639
```

Have listed several small NOS National RF chokes; see at :

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

+ other stuff, tnx   heytubeguy

```
From 7059787079311560200
X-Google-Thread: 108122,9a7b04817f4c6962,start
X-Google-Thread: fc2a5,9a7b04817f4c6962,start
X-Google-Thread: 107ada,9a7b04817f4c6962,start
X-Google-Attributes: gid108122,gidfc2a5,gid107ada,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!84ef5383!not-for-mail
From: "Brian" <kb9bvn@earthlink.net>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Ten Tec Band Modules Needed
Lines: 8
```

```
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <_Hd2h.1263$l25.127@newsread4.news.pas.earthlink.net>
Date: Thu, 02 Nov 2006 03:35:22 GMT
NNTP-Posting-Host: 76.2.195.78
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1162438522 76.2.195.78 (Wed, 01 Nov 2006
19:35:22 PST)
NNTP-Posting-Date: Wed, 01 Nov 2006 19:35:22 PST
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.equipment:6824
rec.radio.amateur.homebrew:7640 rec.radio.amateur.misc:25393
```

I have a friend that just bought a used Ten Tec Scout, it came with a 40m and a 80m band module. He is looking for 30m and maybe 15/17m as well.

If you have any of these you'd like to sell, please send me an email.

73 de KB9BVN

```
From 8023469039811656211
X-Google-Thread: fc2a5,bad500f3aa10c331
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: More on matching -- Xtal filters this time
Date: 1 Nov 2006 19:51:19 -0800
Organization: http://groups.google.com
Lines: 26
Message-ID: <1162439479.063813.50030@b28g2000cwb.googlegroups.com>
References: <12k4rjn1n65i834@corp.supernews.com>
   <1162029602.978485.26040@h48g2000cwc.googlegroups.com>
   <12ki7ggkmpri856@corp.supernews.com>
NNTP-Posting-Host: 66.19.112.217
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162439484 4739 127.0.0.1 (2 Nov 2006 03:51:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 2 Nov 2006 03:51:24 +0000 (UTC)
In-Reply-To: <12ki7ggkmpri856@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
```

Injection-Info: b28g2000cwb.googlegroups.com; posting-host=66.19.112.217;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:7641

Joel Kolstad wrote:
> Thanks for the help, Andy... I muddled through it (it's a little odd the first
> time you've normalized your Smith chart to 1800 ohms and the termination is 50
> ohms!) and the filters do work as their data sheets say.
>
> I did find that xtal filters can easily drive a network analyzer nuts... even
> for looking at a single frequency, I had to significantly increase the
> sampling time well above the default to get a stable display. I'm thinking
> this is due to the absurdly high Q of the crystals causing a very long
> transient response, thereby necessitating a long sampling time to finally
> measure the steady state response.
>
> ---Joel

Andy writes:

  I liked using the old Telonic sweep generators, with the two big
dials, and a diode detector/scope to scan the filter bandpass.
I don't have one, or access to one anymore, and have to do
it by hand.....
   But, what the hell. Retirement gives me a lot of time to
twiddle knobs...

Andy W4OAH

From 6229495387192787950
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!wns13feed!
worldnet.att.net!24.30.200.11!news-east.rr.com!news-wrt-01.southeast.rr.com!news-wrt-01.tampabay.rr.com!news-feed-01.tampabay.rr.com!news.rr.com!news-post.tampabay.rr.com!tornado.southeast.rr.com.POSTED!53ab2750!not-for-mail
From: RadioGuy <RadioGuy@radioguy.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Message-ID: <MPG.1fb33df13282b61a989aa7@news-server.carolina.rr.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>

```
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<VLS%g.19224$UG4.10081@newsread2.news.pas.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-15"
Content-Transfer-Encoding: 7bit
X-Newsreader: MicroPlanet Gravity v2.60
Lines: 45
Date: Thu, 02 Nov 2006 04:28:24 GMT
NNTP-Posting-Host: 71.75.185.54
X-Complaints-To: abuse@rr.com
X-Trace: tornado.southeast.rr.com 1162441704 71.75.185.54 (Wed, 01 Nov 2006
23:28:24 EST)
NNTP-Posting-Date: Wed, 01 Nov 2006 23:28:24 EST
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6183
rec.radio.amateur.homebrew:7642 rec.radio.amateur.policy:52680 rec.radio.swap:9372

In article <VLS%g.19224$UG4.10081@newsread2.news.pas.earthlink.net>,
my.mail@no.spam says...
> Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
> news:MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net:
>
> > Slow Code wrote:
> >
> >>>> Big Ten-Four on that Good Buddy.
> >>> It sounds like you run a lot of 11m, not surprising considering how
> >>> much you whine, and it's not alternator whine.
> >>
> >>
> >> I only typed like because I knew you would understand that style of
> >> communicating.  So, after your license came in the mail what I
> >> appliance did you decide to buy?  MFJ? Alinco? Cobra?
> >
> >
> > While you are being all holier than thou, what did you design and build
> > for your main rig?  I'm hoping to be impressed, but expecting to be
> > disappointed.
> >
> > Did the code help you with the design?
> >
> > I took my Advanced class test down at 1919 M street 36 years ago.  I had
> > to sit at the desk and copy one solid minute out of five error free at
> > 13WPM. I passed it on the first try.  I almost failed the sending test,
> > as I had never spent much time doing that.  I had never made a code
> > contact before my test, and I have only made a couple since.
> >
> > The thing about code contacts is they never seem to want to say anything
> > beyond:
> >
> > WA3XXX DE W6XX RST 5NN WX FB 73 W6XX SK
>
>
```

> Contacts like that still help maintain receiving skill. That's important
> if you ever have to use CW to save a life.
>
> SC
>

How are you going to save a life with CW? If someone is having a heart attack he's not going to be steady enough to type out an SOS to you.

No planes use morse code. No ships do either. Just who do you think is going to send you an SOS?

```
From -3928847968569251167
X-Google-Thread: 106d41,37c4f2646dec012e
X-Google-Thread: fc2a5,45f7743590ba6b47
X-Google-Thread: fcc6e,cf430b37a65615ef
X-Google-Thread: 10bf43,45f7743590ba6b47
X-Google-Thread: 10f7a7,37c4f2646dec012e
X-Google-Attributes: gid106d41,gidfc2a5,gidfcc6e,gid10bf43,gid10f7a7,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!64.59.134.4.MISMATCH!
pd7cy1no!pd7cy2no!shaw.ca!pd7urf3no.POSTED!53ab2750!not-for-mail
X-Trace-PostClient-IP: 70.68.181.129
From: "Text Medium No. 5" <mhm29x21@meow.flonk>
Organization: The Holy International Discordian Internet & Usenet Terrorist
Pretzel Cabal (TINC)
Subject: Re: Coax Crimp Tool Recommendation?
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table)
Message-Id:
<pan.2006.11.02.06.23.02.250372@hail.eris.flonk.meow.all.hail.discordia.meow.flonk
.mockery.demon.not.really.leola>
Newsgroups:
rec.radio.cb,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.amateu
r.policy,alt.usenet.kooks
References: <eec7k2567skgaqf8i9gn7l0ls322c5f49h@4ax.com> <Ro-dnR7I2LS-
Lt7YnZ2dnUVZ_o-dnZ2d@comcast.com> <AQw1h.8$L6.5@newsread3.news.pas.earthlink.net>
<1162341101.724699.283610@m7g2000cwm.googlegroups.com>
Reply-To: Cross-Posters For Goddess! <x-posting@is.sacred>
X-Conspiracy: HomIntern
X-Konspiracy: K00ks Who Must Meet: Alexa Cameron & John Shocked
X-Keywords: Pentagon, NSA, Echelon, radioactive, Italy
eX-Gay: Doesn't exist
X-tra-terrestrial: May or may not exist
X-Yahoo: Group: Cabal_of_the_Holy_Pretzel
X-Bisexual: Still and always
X-Cabal: The Holy International Discordian Internet & Usenet Terrorist Pretzel
X-Goofiest: Goofy-@zzed Babboon: Yads
X-Posting: Address Domain: meow.org
X-Osama: Dead, and long may he rot
X-Riot: Stonewall
X-Political-Compass: Economic Left/Right: -7.63 Social Libertarian/Authoritarian:
-7.38
```

MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 47
Date: Thu, 02 Nov 2006 06:23:05 GMT
NNTP-Posting-Host: 64.59.135.176
X-Complaints-To: abuse@shaw.ca
X-Trace: pd7urf3no 1162448585 64.59.135.176 (Wed, 01 Nov 2006 23:23:05 MST)
NNTP-Posting-Date: Wed, 01 Nov 2006 23:23:05 MST
Xref: g2news2.google.com rec.radio.cb:21611 rec.radio.amateur.homebrew:7643
rec.radio.amateur.antenna:20938 rec.radio.amateur.policy:52691
alt.usenet.kooks:260497

Hail Eris! On Tue, 31 Oct 2006 16:31:41 -0800, I PUNCE jabbered inanely:
> Slow Code wrote:
>> Dave wrote:
>>
>> > Solder??
>>
>> I know how you feel. I felt the same way after hearing there would be
>> 5wpm Extras.
>>
>> > Danny Richardson wrote:
>> >
>> >> Looking for suggestions for a good crimp tool for installing coax
>> >> connectors. It will primarily for BNC connectors on RG-174, 58 and 59
>> >> cables. Although the RG-8 cable family capability would be nice too.
>> >>
>> >> I do wish to avoid being a captive customer in that brand X crimp
>> >> tool only works well with brand X connectors.
>> >>
>> >> And, of course, looking for the best bank for the buck.
>> >>
>> >> Thanks,
>> >>
>> >> Danny
>
> wait till hf is filled with marqueer extras

That sounds exciting! Your foam should rise high, then.

--
Shon'ai COOSN-029-06-71069
"I was told there would be cookies."
Cross-Poasters For Goddess!
Remember: Straight people can't help it!
A petition to make the Five-Fingered Hand of Eris
the official symbol for the planet Eris:
http://www.petitiononline.com/ffhoeris/

"If you don't have pedicures AT LEAST every two weeks, don't talk to me.
If you don't floss every night and morning and brush at least twice a
day, don't talk to me. If you don't spend money on you hair and get

great cuts and color, don't talk to me. If you are heavy, don't talk to me. If you don't shower every morning and take a nice bubble bath every night, don't talk to me. If you don't have a loved one in your arms, don't talk to me. If you don't keep an immaculate house, don't talk to me. If you don't work, don't talk to me." -- Clearly, Martha Vandella never wants to talk to me, which is for the best, really.
MID: <1161934857.062934.91900@i42g2000cwa.googlegroups.com>

```
From -7831189193275205601
X-Google-Thread: fc2a5,a210f357b74d7dd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-
mail
From: "Denny" <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Crimp Tool Suggestions?
Date: 2 Nov 2006 04:16:05 -0800
Organization: http://groups.google.com
Lines: 8
Message-ID: <1162469765.118284.282450@e3g2000cwe.googlegroups.com>
References: <r688k29k59mf5vg7uj5a9s73v29uakr9l8@4ax.com>
   <MPG.1fade8f7dd6eb6fa989721@news.drizzle.com>
   <9YKdnUqKn_-LUtnYRVnyvQ@pipex.net>
   <MPG.1faf245f66f57738989724@news.drizzle.com>
   <12kcn9k25vrlub2@corp.supernews.com>
   <12kdc7ankh3m346@corp.supernews.com>
NNTP-Posting-Host: 24.247.246.156
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162469770 6530 127.0.0.1 (2 Nov 2006 12:16:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 2 Nov 2006 12:16:10 +0000 (UTC)
In-Reply-To: <12kdc7ankh3m346@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=24.247.246.156;
   posting-account=GhrC0g0AAACdrABM-CDx8Fhs5lKJR5q2
Xref: g2news2.google.com rec.radio.amateur.homebrew:7644
```

I just purchased a crimp tool and dies for RG8/213 from Davis RF... It was eighty some dollars for the tool, two sets of dies, and a carry case.. I have a bunch of cabling to make for the station revisions in progress... This was a whim decision and I will post my thoughts after I use it a bit...

denny / k8do

```
From -7549056858672889126
X-Google-Thread: fc2a5,ec858c50cc63f98f,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i42g2000cwa.googlegroups.com!not-for-
mail
From: "n4aeq" <tucker@conninc.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Using alliance rotor with channel master box
Date: 2 Nov 2006 05:48:21 -0800
Organization: http://groups.google.com
Lines: 9
Message-ID: <1162475301.873627.50980@i42g2000cwa.googlegroups.com>
NNTP-Posting-Host: 24.177.78.254
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162475305 2455 127.0.0.1 (2 Nov 2006 13:48:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 2 Nov 2006 13:48:25 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
X-HTTP-Via: 1.0 ncnwproxy01:3128 (squid/2.5.STABLE1)
Complaints-To: groups-abuse@google.com
Injection-Info: i42g2000cwa.googlegroups.com; posting-host=24.177.78.254;
   posting-account=OxP90AwAAADMku3DN_7kLIMyWO_79wJO
Xref: g2news2.google.com rec.radio.amateur.homebrew:7645

  Many years ago in the TV bussiness we would use a alliance tenna
rotor 4 - wire on a 3 - wire
channel master control box.  Now i have the same combination i need to
install on my 6 meter beam
however i fot got the wiring setup?
 Does any remember the proper wiring, i think it was combine 1&2 or 3&4
but i cant remember the
setup.
```

```
From 8719305509704646220
X-Google-Thread: fc2a5,bad500f3aa10c331
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: More on matching -- Xtal filters this time
Date: 2 Nov 2006 06:31:06 -0800
Organization: http://groups.google.com
Lines: 49
Message-ID: <1162477866.843613.116770@e3g2000cwe.googlegroups.com>
References: <12k4rjn1n65i834@corp.supernews.com>
```

```
   <1162029602.978485.26040@h48g2000cwc.googlegroups.com>
   <12ki7ggkmpri856@corp.supernews.com>
NNTP-Posting-Host: 66.19.113.100
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162477872 9007 127.0.0.1 (2 Nov 2006 14:31:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 2 Nov 2006 14:31:12 +0000 (UTC)
In-Reply-To: <12ki7ggkmpri856@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=66.19.113.100;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:7646
```

Joel Kolstad wrote:

> Thanks for the help, Andy... I muddled through it (it's a little odd the first
> time you've normalized your Smith chart to 1800 ohms and the termination is 50
> ohms!) and the filters do work as their data sheets say.
>
> I did find that xtal filters can easily drive a network analyzer nuts... even
> for looking at a single frequency, I had to significantly increase the
> sampling time well above the default to get a stable display. I'm thinking
> this is due to the absurdly high Q of the crystals causing a very long
> transient response, thereby necessitating a long sampling time to finally
> measure the steady state response.
>
> ---Joel

Andy writes:

Joel, one more thing comes to mind.

I like to match impedances using a "double Smith chart". On this
chart,
a normal smith chart is in one color while the mirror image is in
another
color.....
It is called an "impedance-admittance" chart.

One can follow the series reactances along one color, and then
the parallel reactances along the other, to get from the starting
point to the ending part....

Once a person is comfortable using this method, it gives a LOT
of gut feel insight to the various combinations of matching networks
you can use.....

I had to design an automated antenna tuner for Texas Instruments
once, for the HF SSB marine system, and I used the double Smith

Chart to figure out what the combinations needed to be, and then wrote a computer program that would step reactive elements in series or parallel . The automated system therefore just stepped along the curves exactly as I had done by hand..... That was about 30 years ago.

Anyway, the Smith Chart, and various derivative versions, is great because you can see a much larger 'big picture" rather than just discrete values at discrete frequencies...... It's a good and very useful skill to have... among others..

Andy in Eureka, Texas W4OAH

From -5617572611601237555
X-Google-Thread: fc2a5,bb392ea2586808d,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-mail
From: "Martin" <senderbau@egyptportal.ch>
Newsgroups: rec.radio.amateur.homebrew
Subject: DIY Transmitter for 3 m
Date: 2 Nov 2006 11:29:39 -0800
Organization: http://groups.google.com
Lines: 10
Message-ID: <1162495779.517408.264110@m7g2000cwm.googlegroups.com>
NNTP-Posting-Host: 62.193.117.220
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162495785 22473 127.0.0.1 (2 Nov 2006 19:29:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 2 Nov 2006 19:29:45 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=62.193.117.220;
   posting-account=qVXXnQ0AAADNDzob8t5F35dCVzVKwZYn
Xref: g2news2.google.com rec.radio.amateur.homebrew:7647

Hi,
I would like to tell you about my new site for DIY transmitter for 3 meters. There is a lot of transmitters, amplifiers, antennas. The site is in german language, but pictures are international.. :)

Visit it one time
www.senderbau.egyptportal.ch

best regards

From 6602298430945319425
X-Google-Thread: fc2a5,1f097a800c62fe60
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
38.119.100.148.MISMATCH!news-out2.newsfeeds.com!local!news.eskimo.com!eskimo.com!
novatech
From: novatech@eskimo.com (Steven Swift)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Double AD99XX to make IQ local oscillator. Help needed.
Date: 3 Nov 2006 01:49:21 GMT
Organization: Eskimo North www.eskimo.com (800) 246-6874
Lines: 48
Message-ID: <eie771$j63$1@eskinews.eskimo.com>
References: <1161945203.565532.248130@i42g2000cwa.googlegroups.com>
<45425684$0$12183$88260bb3@free.teranews.com>
NNTP-Posting-Host: eskimo.com
X-Trace: eskinews.eskimo.com 1162518561 19651 204.122.16.13 (3 Nov 2006 01:49:21
GMT)
X-Complaints-To: abuse@eskimo.com
NNTP-Posting-Date: 3 Nov 2006 01:49:21 GMT
X-Newsreader: NN version 6.5.5 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7648

"john jardine" <john@jjdesigns.fsnet.co.uk> writes:

>"OH1GTF" <spam99@suomi24.fi> wrote in message
>news:1161945203.565532.248130@i42g2000cwa.googlegroups.com...
>> Hi fellows!
>>
>> I'm building a software defined radio that is mostly based on the
>> "Software Defined Radios For The Masses" -articles and are at the point
>> of designing the DDS board. I have two units of AD9954 DDS chips and
>> my idea was to use them parallel, other one with 90 degree phase shift
>> to generate the quadrature signal. This is my first time with DDS, so
>> understanding the control seem to be a little bit difficult for a first
>> timer.
>>
>> Two questions to start with:
>>
>> 1. I suppose for proper control I need four pins connected from the DDS
>> to the computer (through buffers) I/O update, SDIO, SCLK and Reset, am
>> I correct?
>>
>> 2. Do I have to drive two SDIO serial signals separately for each DDS
>> chip from computer so, that I can define the phase shift for the other
>> DDS (while other one has no phase shift, obivously) ? This came to my
>> mind since the chips don't have any addresses to indentify them.
>>
>> Thanks a lot!!!

>>
>> 73 de Janne, OH1GTF
>>
>Don't know that particular DDS but did it with two AD9832 used in a vector
>impedance arrangement. The master clock and serial clock/data lines were
>wired to both chips. Common serial data was sent to both chips but made
>'valid' only for the wanted DDS by use of individual "Fsync"(?) lines.
>Worked no problem. Chips never got out of step. Phase could be varied at
>will.
>john

Yep, that will always work. If you aren't tied to the AD9954, I would suggest the AD9959 or AD9958. You get 4 or 2 channels in one chip with lots of control. Cost more, but pretty nice part.

Steve.
--
Steven D. Swift, novatech@eskimo.com, http://www.novatech-instr.com
NOVATECH INSTRUMENTS, INC.   P.O. Box 55997
206.301.8986, fax 206.363.4367 Seattle, Washington 98155 USA

```
From 7399665555412977575
X-Google-Thread: fc2a5,f1dba362517c5e5f,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-
mail
From: ka9s3@comcast.net
Newsgroups: rec.radio.amateur.homebrew
Subject: CW to FM Remodulator?
Date: 2 Nov 2006 19:58:26 -0800
Organization: http://groups.google.com
Lines: 30
Message-ID: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
NNTP-Posting-Host: 67.173.24.161
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162526312 2509 127.0.0.1 (3 Nov 2006 03:58:32 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 3 Nov 2006 03:58:32 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1) Gecko/
20061010 Firefox/2.0,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=67.173.24.161;
   posting-account=gJ80Qg0AAACxK715j_ktAW6ExM5sGXKj
Xref: g2news2.google.com rec.radio.amateur.homebrew:7649
```

I have been looking into gizmos that improve CW copy. Most are audio tone detectors that ignore short impulse noise bursts and then regenerate the CW with a keyed tone oscillator. There are several of these designs around and they are all well and good, but I stumbled across something different and was wondering if any of you have had personal experience with it?

An October 1971 article in Ham Radio magazine (pg 17) titled "high-performance CW processor for communications receivers", "Frequency modulating the telegraphy signals in your receiver provides an interesting and profitable addition to conventional receiver design".

The idea is to sample the last IF of a receiver after as much IF filtering as you can muster, and then using this as the RF input to a FM modulator. The RF/IF is modulated at the audio frequency you like to hear while copying CW. The next step is to frequency multiply the FM modulated signal to increase the bandwidth and up the modulation index. The following step is to treat it like any normal FM receiver IF and run it through a limiter stripping off any amplitude information. The last step is to put the signal into a normal FM discriminator to recover the modulating tone you used.

What this is supposed to do is reduce or eliminate QRN (not QRM) from the CW signal making a "quiet" background to copy the CW.

Have any of you ever done this and how did it work out for you?

- Jeff

From 4182176251091831429
X-Google-Thread: fc2a5,bad500f3aa10c331
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news-spur1.maxwell.syr.edu!news.maxwell.syr.edu!sn-xt-sjc-05!sn-xt-sjc-01!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: More on matching -- Xtal filters this time
Date: Thu, 2 Nov 2006 22:07:00 -0800
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12kln45m8ihade@corp.supernews.com>
References: <12k4rjn1n65i834@corp.supernews.com>
<1162029602.978485.26040@h48g2000cwc.googlegroups.com>
<12ki7ggkmpri856@corp.supernews.com>
<1162439479.063813.50030@b28g2000cwb.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-Complaints-To: abuse@supernews.com
Lines: 18

Xref: g2news2.google.com rec.radio.amateur.homebrew:7650

"AndyS" <andysharpe@juno.com> wrote in message
news:1162439479.063813.50030@b28g2000cwb.googlegroups.com...

> I liked using the old Telonic sweep generators, with the two big dials, and a diode detector/scope to scan the filter bandpass. I don't have one, or access to one anymore, and have to do it by hand.....

Perhaps I'm spoiled by having access to VNAs and spectrum analyzers with tracking generators. :-)

It's sad that *good* spectrum analyzers are still quite spendy, even on the used market. There are several "homebew" spec. ans. out there that are quite impressive, but none that come close to even something like a 15 year old HP 8594.

---Joel

From 3694952567813045050
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW to FM Remodulator?
Date: 3 Nov 2006 04:27:39 -0800
Organization: http://groups.google.com
Lines: 45
Message-ID: <1162556859.782446.301680@h48g2000cwc.googlegroups.com>
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
NNTP-Posting-Host: 66.19.113.114
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162556865 10895 127.0.0.1 (3 Nov 2006 12:27:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 3 Nov 2006 12:27:45 +0000 (UTC)
In-Reply-To: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98; DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h48g2000cwc.googlegroups.com; posting-host=66.19.113.114;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:7651

ka9s3@comcast.net wrote:>

> Have any of you ever done this and how did it work out for you?
>
> - Jeff

Andy writes:
Jeff, I haven't tried this method, but one rule of thumb I have always believed in is:

"No matter how much you shift, limit, amplify or divide noise, it still ends up as noise"

The only effective way I have ever found is to narrow the bandwidth around the signal until the signal starts to get degraded. If done digitally, it can be done by digital processing, but that changes only the technique, not the principle...

So, while I would really like to try out some of these "improved methods", I am not confident enough in them to spend a weekend wiring together some hardware.... In my younger years, I probly would've, tho....

Personally, as a CW operator of some 45 years, I have found that my ears/brain does a lot better job of filtering than one would suppose, especially if I am copying some standard message where I sort of know the words the other fellow will send. I only need 2 or 3 letters per word to fill in the pieces with devastating accuracy (grin).....

But, good luck on your efforts. If you do build up something, please

come back and post it here. I am sure that there are many experimenters who try something like that if someone thinks it shows promise..... But, please, take some actual measurements. And with S/N ratios of around the 0 db level. My ear copy can still pick those

out, and many of the "processors" can't deal with noisy sigs in that region....they tend to fall apart when anything below tangential sensitivity is received....

Andy W4OAH in Eureka, Texas

From 7223396588983032956
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-mail
From: ka9s3@comcast.net
Newsgroups: rec.radio.amateur.homebrew

```
Subject: Re: CW to FM Remodulator?
Date: 3 Nov 2006 08:00:47 -0800
Organization: http://groups.google.com
Lines: 59
Message-ID: <1162569647.116221.22280@b28g2000cwb.googlegroups.com>
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
   <1162556859.782446.301680@h48g2000cwc.googlegroups.com>
NNTP-Posting-Host: 67.173.24.161
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162569652 10994 127.0.0.1 (3 Nov 2006 16:00:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 3 Nov 2006 16:00:52 +0000 (UTC)
In-Reply-To: <1162556859.782446.301680@h48g2000cwc.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1) Gecko/
20061010 Firefox/2.0,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=67.173.24.161;
   posting-account=gJ80Qg0AAACxK715j_ktAW6ExM5sGXKj
Xref: g2news2.google.com rec.radio.amateur.homebrew:7652
```

Andy,

Thanks for your response. I guess I'm looking for a magic pill (though I know better). I agree that the human brain/ear combination is unsurpassed in digging out the really weak ones or the weak signal our of the pile up. My unfortunate situation is my degenerating hearing. I now wear hearing aids in both ears and have difficulty understanding spoken conversation no matter what the volume level. I have always been a CW only operator so the loss of SSB use doesn't seem so bad. I can copy CW much better than listen to voices, but I can never be sure that I can still dig the weak signals out of the mud and I'm pretty sure I have lost some ability to deal with pile-up QRM. So I'm grabbing at straws for gizmos to help me out as my hearing digresses.

73 - Jeff - KA9S

On Nov 3, 6:27 am, "AndyS" <andysha...@juno.com> wrote:
> k...@comcast.net wrote:>
> > Have any of you ever done this and how did it work out for you?
>
> > - Jeff
> Andy writes: Jeff, I haven't tried this method, but one rule of thumb I have
> always
> believed in is:
>
> "No matter how much you shift, limit, amplify or divide noise, it still
> ends up as noise"
>
>   The only effective way I have ever found is to narrow the bandwidth
> around the signal until the signal starts to get degraded. If done
> digitally, it can be done by digital processing, but that changes only

> the technique, not the principle...
>
>   So, while I would really like to try out some of these "improved
> methods",
> I am not confident enough in them to spend a weekend wiring together
> some hardware.... In my younger years, I probly would've, tho....
>
>   Personally, as a CW operator of some 45 years, I have found that my
> ears/brain does a lot better job of filtering than one would suppose,
> especially
> if I am copying some standard message where I sort of know the words
> the other fellow will send. I only need 2 or 3 letters per word to
> fill in
> the pieces with devastating accuracy (grin).....
>
>   But, good luck on your efforts. If you do build up something, please
>
> come back and post it here.   I am sure that there are many
> experimenters who try something like that if someone thinks it shows
> promise..... But, please, take some actual measurements. And with
> S/N ratios of around the 0 db level. My ear copy can still pick those
>
> out, and many of the "processors" can't deal with noisy sigs in that
> region....they tend to fall apart when anything below tangential
> sensitivity is received....
>
>   Andy   W4OAH in Eureka, Texas

From -4165044437172587749
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 03 Nov 2006 10:30:05 -0600
Date: Fri, 03 Nov 2006 08:30:13 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW to FM Remodulator?
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
<1162556859.782446.301680@h48g2000cwc.googlegroups.com>
<1162569647.116221.22280@b28g2000cwb.googlegroups.com>
In-Reply-To: <1162569647.116221.22280@b28g2000cwb.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <H_OdnZ9smLIQ89bYnZ2dnUVZ_sadnZ2d@web-ster.com>
Lines: 60

NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-
lL2HOnspKaV5pLn9GVka9PF8HuIEw70d8fxYolAsi4CAe9gb0p2/+Paz8pHxa1vz7VQAGpbeXgHnn1e!
0jALRQQzalCm/flVBNKLQebO16uZKCxxrcbbrdR8F1NztYVa9QMf/aLOzHJL+UEr3O3OmVMhXs2D!
lLSlt/H3o9zYTtke
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7653

ka9s3@comcast.net wrote:
(top posting fixed)
> On Nov 3, 6:27 am, "AndyS" <andysha...@juno.com> wrote:
>
>>k...@comcast.net wrote:>
>>
>>>Have any of you ever done this and how did it work out for you?
>>
>>>- Jeff
>>
>>Andy writes: Jeff, I haven't tried this method, but one rule of thumb I have
>>always
>>believed in is:
>>
>>"No matter how much you shift, limit, amplify or divide noise, it still
>>ends up as noise"
>>

(snip)

>>My ear copy can still pick those
>>out, and many of the "processors" can't deal with noisy sigs in that
>>region....they tend to fall apart when anything below tangential
>>sensitivity is received....
>>
>>   Andy   W4OAH in Eureka, Texas
>
> Andy,
>
> Thanks for your response. I guess I'm looking for a magic pill (though
> I know better). I agree that the human brain/ear combination is
> unsurpassed in digging out the really weak ones or the weak signal our
> of the pile up. My unfortunate situation is my degenerating hearing. I
> now wear hearing aids in both ears and have difficulty understanding
> spoken conversation no matter what the volume level. I have always been
> a CW only operator so the loss of SSB use doesn't seem so bad. I can
> copy CW much better than listen to voices, but I can never be sure that
> I can still dig the weak signals out of the mud and I'm pretty sure I
> have lost some ability to deal with pile-up QRM. So I'm grabbing at
> straws for gizmos to help me out as my hearing digresses.

>
> 73 - Jeff - KA9S
>
They're doing amazing things with PCs and soundcards, doing waterfall plots to pick out weak signals. Perhaps this would work for CW as well -- and if it does you can take a break from the hearing aids entirely, and just do it all visually.

Alas, I don't know what the right software to use would be.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

From 4905117608113967298
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!headwall.stanford.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW to FM Remodulator?
Date: 3 Nov 2006 11:58:25 -0600
Organization: Kansas State University
Lines: 15
Message-ID: <eig001$t2t@unix1.cc.ksu.edu>
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
<1162556859.782446.301680@h48g2000cwc.googlegroups.com>
<1162569647.116221.22280@b28g2000cwb.googlegroups.com>
NNTP-Posting-Host: unix1.cc.ksu.edu
X-Trace: cnn.cns.ksu.edu 1162576710 14040 129.130.12.3 (3 Nov 2006 17:58:30 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Fri, 3 Nov 2006 17:58:30 +0000 (UTC)
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7654

>Thanks for your response. I guess I'm looking for a magic pill (though
>I know better). I agree that the human brain/ear combination is
>unsurpassed in digging out the really weak ones or the weak signal our
>of the pile up.....

Interesting. I recall reading (in QST, no less) of PSK QSO's where the human ear could NOT even tell a signal was being received, yet the screen copy was "5x9" (if such a phrase even has meaning in this context!-)

--
--Myron A. Calhoun.
Five boxes preserve our freedoms: soap, ballot, witness, jury, and cartridge
NRA Life Member and Rifle, Pistol, & Home Firearm Safety Certified Instructor
Certified Instructor for the Kansas Concealed-Carry Handgun license

From -1990282523676921862
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!
feeder2.news.jippii.net!reader1.news.jippii.net!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW to FM Remodulator?
Message-ID: <3r2nk2lpmk8knidb7uhlpsmajupdukkkou@4ax.com>
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
<1162556859.782446.301680@h48g2000cwc.googlegroups.com>
<1162569647.116221.22280@b28g2000cwb.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 36
Date: Fri, 03 Nov 2006 21:30:47 +0200
NNTP-Posting-Host: 195.197.6.112
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.jippii.net 1162582238 195.197.6.112 (Fri, 03 Nov 2006
21:30:38 EET)
NNTP-Posting-Date: Fri, 03 Nov 2006 21:30:38 EET
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:7655

On 3 Nov 2006 08:00:47 -0800, ka9s3@comcast.net wrote:

>My unfortunate situation is my degenerating hearing. I
>now wear hearing aids in both ears and have difficulty understanding
>spoken conversation no matter what the volume level.

Sorry to hear about your hearing problem, apparently you have problems of hearing some specific frequencies.

I don't know if this might help you, but one interesting observation about a A1A beacon and FM receivers may be of interest.

We have a nearby microwave beacon sending out call sign and locator using ordinary on-off keying. When receiving the signal on an FM receiver with the squelch fully open, full quieting is achieved when the carrier is on, but strong "FM-hiss" is audible, when there is no signal.

After a while, it was not too hard to copy the beacon message in this "negative-CW" format.

Since the FM-noise contains white noise, it should be detectable even if some spot frequencies are undetectable due to selective hearing loss.

One approach would be to run the CW signal through some kind of FM receive, limiting the carrier, but producing white noise when no signal is available (and you would have to learn to copy negative-CW) or alternatively use some amplitude detector to control a noise gate, i.e. when there is a carrier present, the white noise would get through, with no signal, the headphones would be silent.

Just an idea.

Paul OH3LWR

```
From 2928630293052296025
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h54g2000cwb.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW to FM Remodulator?
Date: 3 Nov 2006 13:58:05 -0800
Organization: http://groups.google.com
Lines: 118
Message-ID: <1162591085.500898.182100@h54g2000cwb.googlegroups.com>
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
   <1162556859.782446.301680@h48g2000cwc.googlegroups.com>
   <1162569647.116221.22280@b28g2000cwb.googlegroups.com>
   <3r2nk2lpmk8knidb7uhlpsmajupdukkkou@4ax.com>
NNTP-Posting-Host: 66.19.112.122
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162591090 362 127.0.0.1 (3 Nov 2006 21:58:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 3 Nov 2006 21:58:10 +0000 (UTC)
In-Reply-To: <3r2nk2lpmk8knidb7uhlpsmajupdukkkou@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h54g2000cwb.googlegroups.com; posting-host=66.19.112.122;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:7656
```

Paul Keinanen wrote:
spot frequencies are undetectable due to selective hearing

> loss.
>
> One approach would be to run the CW signal through some kind of FM receive, limiting the carrier, but producing white noise when no signal is available (and you would have to learn to copy negative-CW) or alternatively use some amplitude detector to control a noise gate, i.e. when there is a carrier present, the white noise would get through, with no signal, the headphones would be silent.
>
> Just an idea.
>
> Paul OH3LWR

Andy writes:

A hard limiter decreases the signal to noise by about 5.6 db, and that's a mathematical fact...

If we know the characteristics of the noise, and the characteristics of when it occurs and the distribution of the energy, then we have "a priori" experience , and it really isn't "noise" anymore, and it can be dealt with --- in some cases rejected - and it's effects on the intelligibiliy of a desired signal made less...

There are two characteristics familiar to a radar engineer, which deals with detection of a signal in the presence of noise::

Probability of detection -- Which is the probablility that a signal will be detected in the presence of noise without an error.

Probability of false alarm -- This is the probability that detection of a vailid signal will occur when there is, in fact, no signal present.

Entire volumes have been written on Pd versus Pfa, since this means life or death to an aircraft (for instance) when a missle lock may happen.....

If the other guy detects you and sends his missle before you do, you will probly be dead.
If you fire your missles off at a ghost and have none left, you will

probly be dead..

In the final analysis, CW is just On-Off signals, much like pulses.

The bottom line in all this is that if you KNOW what the signal is going to do you can increase the chances of detecting it properly.

For instance, if the signal is repetitive, it can be stored, integrated, differentiated, or accumulated with weighing functions to recover the intelligence ---- "a priori" knowledge is necessary..

If you know what the noise is going to do -- impulse, popcorn, static, broadband, random, etc --- you can use techniques to reduce it hopefully without reducing the signal..

So fancy noise limiters, signal enhancers, and innovative detectors will work on some types of interference, and not on others. To be a universal S/N improvement, it has to work on "unknown" interference...

That's what the ham bands are like. It could be AM splatter, white noise, a welder machine, the "woodpecker", car ignition..... whatever....

That's what restricting the bandpass does, usually. Sometimes it makes the S/N worse, but only with "special" types of interference.

There ain't no "magic bullet".....

The subject is a LOT more complicated than just any single simple technique for recovering a signal...

However ,our ear/brain, with PRACTICE is an adaptive filter. It's amazing how well it works, after someone has been copying CW for a while. Perhaps a microprocessor controlled adaptive filter can be made to approach it, but ADAPTIVE filtering is the only hope that I can see, given the different types of QRM and QRN that I have encountered. My best bet is that someday an adaptive CW filter would be to do as good as my own ear could do today.....

It's like looking at a noisy signal on a scope. Someone with a lot of practice can see a valid signal several db lower in S/N than a novice can do.... Sonar operators can do the same.....

"Waterfall" displays simply integrate the signal and noise over time, which is similar mathematically to restricting the bandwidth as far as the S/N "enhancement" properties.... The characteristics of the signal

and the characteristics of the noise are known beforehand, and
that is used, via the display, to increase the Pd and decrease the
Pfa....

End of rant..... I need a beer.

Andy W4OAH

(retired communications and RADAR systems engineer and
ham for about 45 years, or so.... hell, I don't remember any more)

From 1092335509066781420
X-Google-Thread: 108122,ba985c200c6550c3,start
X-Google-Thread: fc2a5,ba985c200c6550c3,start
X-Google-Thread: 107ada,ba985c200c6550c3,start
X-Google-Thread: 10bf43,ba985c200c6550c3,start
X-Google-Attributes: gid108122,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
radio.amateur.policy
Subject: Anyone written the FCC and told them to keep the code requirement?
From: Slow Code <my.mail@no.spam>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 6
Message-ID: <hZQ2h.1647$L6.319@newsread3.news.pas.earthlink.net>
Date: Sat, 04 Nov 2006 00:16:13 GMT
NNTP-Posting-Host: 4.254.231.121
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1162599373 4.254.231.121 (Fri, 03 Nov
2006 16:16:13 PST)
NNTP-Posting-Date: Fri, 03 Nov 2006 16:16:13 PST
Xref: g2news2.google.com rec.radio.amateur.equipment:6842
rec.radio.amateur.homebrew:7657 rec.radio.amateur.misc:25466
rec.radio.amateur.policy:52822

If you have, Thanks.

73
de Slow Code

From -7177091780925583620
X-Google-Thread: 108122,ba985c200c6550c3

```
X-Google-Thread: fc2a5,ba985c200c6550c3
X-Google-Thread: 107ada,ba985c200c6550c3
X-Google-Thread: 10bf43,ba985c200c6550c3
X-Google-Attributes: gid108122,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone.austin.rr.com!news.rr.com!
tornado.texas.rr.com.POSTED!53ab2750!not-for-mail
From: "U-Know-Who" <no-one@nowhere.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
radio.amateur.policy
References: <hZQ2h.1647$L6.319@newsread3.news.pas.earthlink.net>
Subject: Re: Anyone written the FCC and told them to keep the code requirement?
Lines: 14
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <ZxR2h.5257$lx6.424@tornado.texas.rr.com>
Date: Sat, 04 Nov 2006 00:55:21 GMT
NNTP-Posting-Host: 67.10.92.242
X-Complaints-To: abuse@rr.com
X-Trace: tornado.texas.rr.com 1162601721 67.10.92.242 (Fri, 03 Nov 2006 18:55:21
CST)
NNTP-Posting-Date: Fri, 03 Nov 2006 18:55:21 CST
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.equipment:6846
rec.radio.amateur.homebrew:7658 rec.radio.amateur.misc:25484
rec.radio.amateur.policy:52847


"Slow Code" <my.mail@no.spam> wrote in message
news:hZQ2h.1647$L6.319@newsread3.news.pas.earthlink.net...
>
>
> If you have, Thanks.
>
> 73
> de Slow Code

Nah, all HF bands are for sale. Lord help the rest of the world after the
FCC finishes their work. People like SC are the reason for this.




From 3520482989986315083
X-Google-Thread: fc2a5,d189aa25ea3d4393,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-
```

```
mail
From: "tictac1" <bggungor@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Selecting toroids for HF use...
Date: 4 Nov 2006 09:54:15 -0800
Organization: http://groups.google.com
Lines: 9
Message-ID: <1162662855.345115.209880@h48g2000cwc.googlegroups.com>
NNTP-Posting-Host: 85.97.79.209
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162662860 31303 127.0.0.1 (4 Nov 2006 17:54:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 4 Nov 2006 17:54:20 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; tr; rv:1.8.0.7) Gecko/
20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h48g2000cwc.googlegroups.com; posting-host=85.97.79.209;
   posting-account=h96SeQ0AAABpb71GK4GCVx4_l4hGmsTk
Xref: g2news2.google.com rec.radio.amateur.homebrew:7659

Hi,

I need some toroidal cores(powdered iron or ferrite) for general HF
use. So i guess i will be looking for cores in 3-30~ MHz range. I have
access to Philips toroidal cores in where i live and i need your advice
to find the suitable one. Waiting for your answers...

Thanks...




From -5280476425337567814
X-Google-Thread: fc2a5,28a3144a154337bc,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-
mail
From: bill.meara@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Class C amps and saturation (again)
Date: 4 Nov 2006 10:34:14 -0800
Organization: http://groups.google.com
Lines: 41
Message-ID: <1162665254.828375.182050@k70g2000cwa.googlegroups.com>
NNTP-Posting-Host: 86.141.195.80
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162665258 18839 127.0.0.1 (4 Nov 2006 18:34:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 4 Nov 2006 18:34:18 +0000 (UTC)
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=86.141.195.80;
   posting-account=7vRsuQwAAADlh58wGAIfEFYQRw36eW7d
Xref: g2news2.google.com rec.radio.amateur.homebrew:7660

Back in July I wrote:

I'm reading David Rutledge's excellent "The Electronics of Radio."
In Chapter 10 -- Power Amplifiers, he discusses Class C amps and says,
"In addition, if we drive the transistor clear to saturation, using the

transistor as a switch, the dissipated power can be greatly reduced,
because the saturation voltage is low. This is Class C
amplification..."
I'd always throught that in Class C, while you'd operate the device so
that it was cutoff during most of the cycle, but not saturated.
Is this just a different definition of Class C?
I checked back with SSDRA and EMRFD, and didn't see anything about
driving Class C amps into saturation?
What says the group?  Do we saturate in Class C or not?
-------------------------------------------------------
I've been thinking about this some more.  The 1980 ARRL handbook points
out that "Solid State power amplifiers should be operated just below
their saturation points for best efficiency and stability."  Also, the
formula that we use to determine load resistance (Rl=Vcc^2/2Po) implies
that we are looking for a combination of Vcc, Load resistance and power
out that will prevent saturation.
And wouldn't we end up with far lower harmonic content if we only clip
one side of the wave form (at cutoff) instead of both sides (cutoff and
saturation)?

I know there are more exotic modes beyond C, but for plain old ordinary
ham radio applications, don't we normally avoid saturation in Class C
amps?

Also, what about this business of having the efficiency improve through
saturation "because the saturation voltage is low"   Could that be
right?   If you put a voltage across a conductor and generate a large
current, you can't sit back and say "Great!  Power consumption across
the conductor is low because the voltage drop across it is now
minimal!"

73 from London
Bill M0HBR  N2CQR CU2JL
http://www.gadgeteer.us



From -6849727149961054427
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
```

```
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
From: Slow Code <my.mail@no.spam>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<1161091728.610995.236060@m7g2000cwm.googlegroups.com>
<1161108371.016803.159340@h48g2000cwc.googlegroups.com>
<pi9Zg.46947$nm1.8930@fed1read04>
<1161119301.113067.200270@b28g2000cwb.googlegroups.com>
<JpzZg.8966$Lv3.8914@newsread1.news.pas.earthlink.net>
<1161399876.591042.314920@k70g2000cwa.googlegroups.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 40
Message-ID: <37y_g.10648$Lv3.6001@newsread1.news.pas.earthlink.net>
Date: Sat, 21 Oct 2006 23:33:19 GMT
NNTP-Posting-Host: 4.254.226.200
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1161473599 4.254.226.200 (Sat, 21 Oct
2006 16:33:19 PDT)
NNTP-Posting-Date: Sat, 21 Oct 2006 16:33:19 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6085
rec.radio.amateur.homebrew:7509 rec.radio.amateur.policy:51105 rec.radio.swap:8824

hot-ham-and-cheese@hotmail.com wrote in
news:1161399876.591042.314920@k70g2000cwa.googlegroups.com:

>
> Slow Code wrote:
>> hot-ham-and-cheese@hotmail.com wrote in
>> news:1161119301.113067.200270@b28g2000cwb.googlegroups.com:
>>
>> >
>> > Caveat Lector wrote:
>> >> When you passed the FCC exam - you are an Amateur Radio Operator
>> >> period -- plain and simple.
>> >>
>> >> Whether you passed a 20 wpm code test or no code - you are a Ham
>> >>
>> >> Whether you had to draw the schematic for a Colpitts Oscillator or
>> >> not - you are a Ham
>> >>
>> >> Whether you faced the steely-eyed FCC examiner or a VE -- you are a
>> >> Ham
>> >>
>> >> Those who say otherwise are shrouded in elitism and a synonym  for
>> >> elitism is snobbery - plain and simple
>> >>
>> >> This is 2006, not 1920
>> >>
>> >> CL
>> >
>> > You got that right.
>>
>> It's nice to see a couple 11 meter jockeys agreeing with each other.
>>
>> SC
>
> Looks like Bruce and Dan are back...


I hope 11 meters opens up so you can get back on the band again and leave
the net for awhile.  You're a bad influence on Mark in the Dark.




From -4132342842340922493
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.ars
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: Sat, 21 Oct 2006 21:52:45 -0400
Message-ID: <fmjlj29sdkb2a3137g56ee2mgpv72em5g9@4ax.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<1161091728.610995.236060@m7g2000cwm.googlegroups.com>
<1161108371.016803.159340@h48g2000cwc.googlegroups.com>
<pi9Zg.46947$nm1.8930@fed1read04>
<1161119301.113067.200270@b28g2000cwb.googlegroups.com>
<JpzZg.8966$Lv3.8914@newsread1.news.pas.earthlink.net>
<1161399876.591042.314920@k70g2000cwa.googlegroups.com>
<37y_g.10648$Lv3.6001@newsread1.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 43
NNTP-Posting-Date: 22 Oct 2006 00:57:32 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6087
```

```
rec.radio.amateur.homebrew:7510 rec.radio.amateur.policy:51119 rec.radio.swap:8828

On Sat, 21 Oct 2006 23:33:19 GMT, Slow Code <my.mail@no.spam> wrote:

>hot-ham-and-cheese@hotmail.com wrote in
>news:1161399876.591042.314920@k70g2000cwa.googlegroups.com:
>
>>
>> Slow Code wrote:
>>> hot-ham-and-cheese@hotmail.com wrote in
>>> news:1161119301.113067.200270@b28g2000cwb.googlegroups.com:
>>>
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>>> >>
>>> >> Those who say otherwise are shrouded in elitism and a synonym  for
>>> >> elitism is snobbery - plain and simple
>>> >>
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>>> >>
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>>> It's nice to see a couple 11 meter jockeys agreeing with each other.
>>>
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>>
>> Looks like Bruce and Dan are back...
>
>
>I hope 11 meters opens up so you can get back on the band again and leave
>the net for awhile.  You're a bad influence on Mark in the Dark.
BB is a general class opertor with access to ham HF
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From -8352061239976273221
X-Google-Thread: fc2a5,562a2af703918ac7
```

```
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.brightview.com!
news.brightview.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 22 Oct 2006 06:08:00 -0500
From: rrah@pencoys.org.uk (Mike W)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Preamp, RF amp and LNA.
Date: Sun, 22 Oct 2006 11:07:50 GMT
Reply-To: rrah@pencoys.org.uk
Message-ID: <453b4ffd.675279137@news.madasafish.com>
References: <1161362761.492671.151060@m73g2000cwd.googlegroups.com>
X-Newsreader: Forte Free Agent 1.21/32.243
Lines: 16
NNTP-Posting-Host: 80.189.15.41
X-Trace: sv3-w0oMcfcsG94O8arUKZuWhs3fMoCEvAwlFZF+xQy+Tejl/1eTuXn2gHgI/
TS4Kp52c7Rj3ltRQH0FOty!i5k0F/
jjSbiu7I2GtHjvu+LTu7w7iDGPFiVWgVFJQPvYTZmW4S+JK3OP13DYQhQX9uDKkfUpN/PE!
i2wOZrwVSV7zipC9zyN/Qdew/ycQRIpJ
X-Complaints-To: abuse@brightview.com
X-DMCA-Complaints-To: abuse@brightview.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7511

On 20 Oct 2006 09:46:01 -0700, "sjones" <radiofreeq@gmail.com> wrote:

>Hello All,
>I was wondering what are the differences between a preamp, RF amp and
>an LNA.
>
>I was thinking they are all one and the same. Are there any subtle
>differences among them for these names?
>
>Thanks.
>
AFIK a Preamp is used when referring to HF and VHF communciation
receivers. An RF Amp refers to the final stage of a transmitter and an
LNA is generally used when referring to Microwave or sattelite
receiver. I note that the preamp/frontend of the R2 is referred to as
an LNA.


From -5842504977216347057
X-Google-Thread: fc2a5,e26e4a7e24b0085f,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!wn12feed!
worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
```

Newsgroups: rec.radio.amateur.homebrew
Subject: FA: MORE EF JOHNSON STUFF
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <VfP_g.101445$QZ1.38904@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: caafd7be31ba704b3de618193b36640f
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1161543797
caafd7be31ba704b3de618193b36640f (Sun, 22 Oct 2006 19:03:17 GMT)
NNTP-Posting-Date: Sun, 22 Oct 2006 19:03:17 GMT
Organization: AT&T Worldnet
Date: Sun, 22 Oct 2006 19:03:17 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7512

More EF Johnson parts listed: feet + 6N2 VFO; see at:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

Tnx for looking: have some National items coming soon: NCX-5 + PS,
NCL-2000

HEYTUBEGUY

From 4411345875656376696
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f16g2000cwb.googlegroups.com!not-for-mail
From: hot-ham-and-cheese@hotmail.com
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: 23 Oct 2006 04:00:54 -0700
Organization: http://groups.google.com
Lines: 42
Message-ID: <1161601254.507316.321040@f16g2000cwb.googlegroups.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
   <1161091728.610995.236060@m7g2000cwm.googlegroups.com>
   <1161108371.016803.159340@h48g2000cwc.googlegroups.com>
   <pi9Zg.46947$nm1.8930@fed1read04>
   <1161119301.113067.200270@b28g2000cwb.googlegroups.com>

```
   <JpzZg.8966$Lv3.8914@newsread1.news.pas.earthlink.net>
   <1161399876.591042.314920@k70g2000cwa.googlegroups.com>
   <37y_g.10648$Lv3.6001@newsread1.news.pas.earthlink.net>
NNTP-Posting-Host: 4.225.103.228
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161601259 9358 127.0.0.1 (23 Oct 2006 11:00:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 23 Oct 2006 11:00:59 +0000 (UTC)
In-Reply-To: <37y_g.10648$Lv3.6001@newsread1.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f16g2000cwb.googlegroups.com; posting-host=4.225.103.228;
   posting-account=mMyuWQ0AAAANPpX1wK2NRuuQfAjm_kIo
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6095
rec.radio.amateur.homebrew:7513 rec.radio.amateur.policy:51331 rec.radio.swap:8873


Slow Code wrote:
> hot-ham-and-cheese@hotmail.com wrote in
> news:1161399876.591042.314920@k70g2000cwa.googlegroups.com:
>
> >
> > Slow Code wrote:
> >> hot-ham-and-cheese@hotmail.com wrote in
> >> news:1161119301.113067.200270@b28g2000cwb.googlegroups.com:
> >>
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> >> >>
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> >> >>
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> >> >
> >> > You got that right.
> >>
> >> It's nice to see a couple 11 meter jockeys agreeing with each other.
> >>
```

> >> SC
> >
> > Looks like Bruce and Dan are back...
>
> I hope 11 meters opens up

I'm sure that you do.

```
From 4361021503431887497
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: "an_old_friend" <konstans@hotmail.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: 23 Oct 2006 04:52:41 -0700
Organization: http://groups.google.com
Lines: 16
Message-ID: <1161604361.899607.251240@m7g2000cwm.googlegroups.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
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   <1161108371.016803.159340@h48g2000cwc.googlegroups.com>
   <pi9Zg.46947$nm1.8930@fed1read04>
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   <JpzZg.8966$Lv3.8914@newsread1.news.pas.earthlink.net>
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   <37y_g.10648$Lv3.6001@newsread1.news.pas.earthlink.net>
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1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=69.19.14.34;
   posting-account=5Yl6pg0AAADpwOMWiAfWEILF9IbswBYm
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6096
rec.radio.amateur.homebrew:7514 rec.radio.amateur.policy:51342 rec.radio.swap:8874
```

```
hot-ham-and-cheese@hotmail.com wrote:
> Slow Code wrote:
> > hot-ham-and-cheese@hotmail.com wrote in
> > news:1161399876.591042.314920@k70g2000cwa.googlegroups.com:

> > >
> > > Looks like Bruce and Dan are back...
> >
> > I hope 11 meters opens up
>
> I'm sure that you do.

indeed it is likely the sole we see SC is that we are at the bottom of
the sunspot cyle and cb just isn't fun those ilgeal op like SC




From -4507343971095401688
X-Google-Thread: fc2a5,df5bd0c7ad5e83f1
X-Google-Thread: 112d1e,df5bd0c7ad5e83f1
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news.magma.ca.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 23 Oct 2006 19:14:29 -0500
From: legg <legg@nospam.magma.ca>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: PSUs: current-limiting and crowbarring - incompatible?
Date: Mon, 23 Oct 2006 20:12:54 -0400
Message-ID: <e0mqj2p0ha1f92rv32r14i22iq3c6kk4sk@4ax.com>
References: <1161376099.831229.27070@b28g2000cwb.googlegroups.com>
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X-DMCA-Complaints-To: abuse@magma.ca
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7515
sci.electronics.design:113259

On 20 Oct 2006 13:28:19 -0700, paul@burridge8333.fsbusiness.co.uk
wrote:
```

>Hi gang,
>
>Is it not feasible to use a crowbar circuit across a PSU's output if
>that PSU has a current-limiting feature? I can imagine a situation
>arising where an over-voltage causes the crowbar to close, generating a
>short-circuit condition which activates the current limiting. The
>output will then be stuck at not enough amps to blow the upstream fuse,
>but enough current to smoke the crowbar (which is not designed to be
>kept conducting for any length of time of course). Is there some way to
>have both over-current and over-voltage protection working together in
>harmony?

A properly designed crowbar should be able to handle the current and
stored charge of the supply it's monitoring. If a crowbar fails short
in the process, it's still doing it's job, but that is unlikely to
happen if foldback limiting occurs.

OVP and current limiting are both possible using small-signal
techniques, but the OVP's latch may require an independant method of
crossing the isolation barrier for effect.

RL

From -920065859311076492
X-Google-Thread: fc2a5,df5bd0c7ad5e83f1
X-Google-Thread: 112d1e,df5bd0c7ad5e83f1
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wn12feed!worldnet.att.net!bgtnsc04-
news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
From: You <You@shadow.orgs>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: PSUs: current-limiting and crowbarring - incompatible?
Organization: You and my shadow
References: <1161376099.831229.27070@b28g2000cwb.googlegroups.com>
<e0mqj2p0ha1f92rv32r14i22iq3c6kk4sk@4ax.com>
User-Agent: MT-NewsWatcher/3.1 (PPC)
Message-ID: <You-EBF96C.08504924102006@netnews.worldnet.att.net>
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X-Trace: bgtnsc04-news.ops.worldnet.att.net 1161708640 12.12.208.77 (Tue, 24 Oct
2006 16:50:40 GMT)
NNTP-Posting-Date: Tue, 24 Oct 2006 16:50:40 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7516
sci.electronics.design:113501

In article <e0mqj2p0ha1f92rv32r14i22iq3c6kk4sk@4ax.com>,
 legg <legg@nospam.magma.ca> wrote:

> A properly designed crowbar should be able to handle the current and
> stored charge of the supply it's monitoring. If a crowbar fails short
> in the process, it's still doing it's job, but that is unlikely to
> happen if foldback limiting occurs.

Actually, a Crowbar System ONLY needs to be able to blow the fuse,
or circuitbreaker that protects the LOAD from the overvoltage
condition that the Crowbar is monitoring. Protecting the supply
from overcurrent draw condition is the Foldback Current Limiter's
Job. Two completely different senerios.

From 4303981700222422867
X-Google-Thread: fc2a5,a04b26c6423ee00a,start
X-Google-Thread: 112d1e,a04b26c6423ee00a,start
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news2.volia.net!newsfeed01.sul.t-
online.de!t-online.de!newsfeed.arcor.de!newsspool1.arcor-online.net!
news.arcor.de.POSTED!not-for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Ferrite antenna com system
Date: Tue, 24 Oct 2006 22:38:18 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 50
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Organization: Arcor
NNTP-Posting-Date: 24 Oct 2006 22:39:56 CEST
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X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7517
sci.electronics.design:113579

Hello all -

I built a simple ferrite antenna communication system. Unfortunately it
won't work if I set the sender more distanced than about a meter. That is
even true with different transmitter configurations.

Here the details:
Transmitter:
ferrite antenna: diameter 8mm , 50mm long
frequency is 77.5KHz, digital modulation is AM 25%
bit-rate is 1 bit/sec (0 is 100ms carrier 25%, 1 is 200ms carrier 25%)

insulated copper wire coil 10 turns

The transmitter is self-constructed and delivers a very good signal.

Receiver:
same antenna copied, but a built-in resonating capacitor.
ready-to-use WWVB 77.5KHz receiver. Demodulated signal goes to scope.

The transmission works over about one meter without any shortage.

Now the problem is that I can change the transmitter parameters but I cannot reach a substancial greater distance. I changed:
- the coil wound times
- output current to the antenna (measured across a series resistor)
- added an antenna current sensor coil to sense the antenna current and to see if the ferrite antenna saturizes (NO! Very clean sinusoid)

Googling around to find theoretical aspects of ferrite antenne got no good results. I spent several hours and read all I can read.

Have someone suggestions to try or good links to read? Especially for:
- when a ferrite or iron powder rod/bar goes in saturation?
- optimal rod dimensions
- optimal coil design (I suggest single layer, resonating with good Q capacitor, about 3 to 10 turns)
- LNA design for such a low frequency?
- antenna field theory in near-field.

If you need further details please ask.

Thanks in advance.

Regards -
Henry

From 3391688340812477440
X-Google-Thread: fc2a5,a04b26c6423ee00a
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From: John Larkin <jjlarkin@highNOTlandTHIStechnologyPART.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Ferrite antenna com system
Date: Tue, 24 Oct 2006 14:39:44 -0700
Organization: Posted via Supernews, http://www.supernews.com

Message-ID: <rn1tj218vgh178v9uh63eifjmi8bvugm9u@4ax.com>
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
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Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 65
Xref: g2news2.google.com rec.radio.amateur.homebrew:7518
sci.electronics.design:113587

On Tue, 24 Oct 2006 22:38:18 +0200, "Henry Kiefer"
<otc_friend@gmx.net> wrote:

>Hello all -
>
>I built a simple ferrite antenna communication system. Unfortunately it
>won't work if I set the sender more distanced than about a meter. That is
>even true with different transmitter configurations.
>
>Here the details:
>Transmitter:
>ferrite antenna: diameter 8mm , 50mm long
>frequency is 77.5KHz, digital modulation is AM 25%
>bit-rate is 1 bit/sec (0 is 100ms carrier 25%, 1 is 200ms carrier 25%)
>insulated copper wire coil 10 turns
>
>The transmitter is self-constructed and delivers a very good signal.
>
>Receiver:
>same antenna copied, but a built-in resonating capacitor.
>ready-to-use WWVB 77.5KHz receiver. Demodulated signal goes to scope.
>
>The transmission works over about one meter without any shortage.
>
>
>Now the problem is that I can change the transmitter parameters but I cannot
>reach a substancial greater distance. I changed:
>- the coil wound times
>- output current to the antenna (measured across a series resistor)
>- added an antenna current sensor coil to sense the antenna current and to
>see if the ferrite antenna saturizes (NO! Very clean sinusoid)
>
>
>Googling around to find theoretical aspects of ferrite antenne got no good
>results. I spent several hours and read all I can read.
>
>
>Have someone suggestions to try or good links to read? Especially for:
>- when a ferrite or iron powder rod/bar goes in saturation?
>- optimal rod dimensions
>- optimal coil design (I suggest single layer, resonating with good Q
>capacitor, about 3 to 10 turns)

```
>- LNA design for such a low frequency?
>- antenna field theory in near-field.
>
>If you need further details please ask.
>
>Thanks in advance.
>
>Regards -
>Henry
>
```

The propagation mode here is pure magnetic coupling, not a proper electromagnetic "radio" wave, because the antennas are so small compared to a wavelength. Dipole magnetic fields fall off with the cube of distance.

A lot more turns on the rods, and resonating with a cap, will help some. Longer rods would help some, too, but 1/d^3 is a cruel function.

How far do you need to go?

John

```
From 8343373533902858307
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Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.magma.ca!
news.magma.ca.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 24 Oct 2006 17:49:48 -0500
From: legg <legg@nospam.magma.ca>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: PSUs: current-limiting and crowbarring - incompatible?
Date: Tue, 24 Oct 2006 18:48:13 -0400
Message-ID: <f15tj2lug3sjd4qcfajl2b9gbl8hgte7ft@4ax.com>
References: <1161376099.831229.27070@b28g2000cwb.googlegroups.com>
<e0mqj2p0ha1f92rv32r14i22iq3c6kk4sk@4ax.com> <You-
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83zXne9oCQ==
X-Complaints-To: abuse@magma.ca
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X-DMCA-Complaints-To: abuse@magma.ca
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7519 sci.electronics.design:113599

On Tue, 24 Oct 2006 16:50:40 GMT, You <You@shadow.orgs> wrote:

>In article <e0mqj2p0ha1f92rv32r14i22iq3c6kk4sk@4ax.com>,
> legg <legg@nospam.magma.ca> wrote:
>
>> A properly designed crowbar should be able to handle the current and stored charge of the supply it's monitoring. If a crowbar fails short in the process, it's still doing it's job, but that is unlikely to happen if foldback limiting occurs.
>
>Actually, a Crowbar System ONLY needs to be able to blow the fuse, or circuitbreaker that protects the LOAD from the overvoltage condition that the Crowbar is monitoring. Protecting the supply from overcurrent draw condition is the Foldback Current Limiter's Job. Two completely different senerios.

The aim is to protect downstream components from overvoltage. Overvoltage is an indication of loss of control. To count on the presence of other limiting circuitry, completely independent of the voltage regulator, may be whistlng for it.

At one time, thyristors with large I^2t characteristics were marketed for crowbar applications. Nowadays, it might be more sensible to make use of a semiconductor circuit breaker, integrated into bus sequencing circuitry.

RL

From -5176934357855950370
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a
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Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net> <rn1tj218vgh178v9uh63eifjmi8bvugm9u@4ax.com>

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Subject: Re: Ferrite antenna com system
Date: Wed, 25 Oct 2006 01:03:21 +0200
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Lines: 43
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Organization: Arcor
NNTP-Posting-Date: 25 Oct 2006 01:05:15 CEST
NNTP-Posting-Host: 4ea80989.newsspool3.arcor-online.net
X-Trace:
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hOgLaIBTX8BXEM6`n;X\0QlYGWaZ^k`AEH0:``
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7520
sci.electronics.design:113603
```

> The propagation mode here is pure magnetic coupling, not a proper
> electromagnetic "radio" wave, because the antennas are so small
> compared to a wavelength. Dipole magnetic fields fall off with the
> cube of distance.
>
> A lot more turns on the rods, and resonating with a cap, will help
> some. Longer rods would help some, too, but 1/d^3 is a cruel function.
>
> How far do you need to go?

Hi!

I remember 1/d^4 for a full EM-field here.

The receiver is a WORKING time-code receiver. Working in distance at least 2000km from the time-code transmitter with an EIRP of 30KW. The time-code transmitter have of course a VERY BIG antenna (120m height).
So I'm a little confused of your capacitor idea. That is true?: The transmitter is NOT sending an electromagnetic wave but the same antenna system at the receiving end reads it as an full established EM field?

How far: Hm, several km's if possible. Maybe I should go higher in frequency?
What other small effective antennas work here?

I think the problem is not the minimum turns because I tested it with an original ferrite rod - the same as in the original time-code receiver. It have a lot of turns, probably 100 or more. The same behaviour with 100 turns AND with 10 turns. No difference!

What I understand of ferrrite antenna theory is:
That the coil is simply an impedance transformer and bandpass (with a parallel capacitor for narrow-band reception) to couple the preamplifier to the antenna system (= ferrite rod).

But I miss something. Maybe something with differences between transmitting and receiving with a ferrite antenna. The antenna is not pure reciprocal - because the ferrite (or iron powder) can be nonlinear!

- Henry

From -8674069429111952899
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a
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From: Rich Grise <rich@example.net>
Subject: Re: Ferrite antenna com system
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table)
Message-Id: <pan.2006.10.24.17.20.44.253605@example.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
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X-Trace: trnddc03 1161735587 71.103.80.162 (Tue, 24 Oct 2006 20:19:47 EDT)
NNTP-Posting-Date: Tue, 24 Oct 2006 20:19:47 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7521
sci.electronics.design:113612

On Wed, 25 Oct 2006 01:03:21 +0200, Henry Kiefer wrote:

>
>> The propagation mode here is pure magnetic coupling, not a proper
>> electromagnetic "radio" wave, because the antennas are so small
>> compared to a wavelength. Dipole magnetic fields fall off with the
>> cube of distance.
>>
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>
> But I miss something. Maybe something with differences between transmitting and receiving with a ferrite antenna. The antenna is not pure reciprocal - because the ferrite (or iron powder) can be nonlinear!
>

Yes, a ferrite stick antenna works quite well for receivers, but not for transmitters. Try winding a few dozen turns around the whole room - i.e., up the wall, across the ceiling, down the other wall, across the floor, and so on. Or, you could wrap a piece of 50-conductor ribbon cable, and make loops by soldering the ends together offset by 1. ;-)

I don't know very much about antenna theory, but I know that the bigger the better. ;-)

Something's telling me that it's theoretically possible to transmit with a ferrite stick, but from the kind of power you'd have to run through it, it would probably blow up. =:-O

Good Luck!
Rich

From -3319242527183524096
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!tethys.csu.net!nntp.csufresno.edu!sn-xt-sjc-03!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!

corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Ferrite antenna com system
Date: Tue, 24 Oct 2006 17:29:52 -0700
Organization: EZNEC Antenna Software
Message-ID: <12jtc01a1fatce0@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
<rn1tj218vgh178v9uh63eifjmi8bvugm9u@4ax.com>
<453e9c2a$0$5713$9b4e6d93@newsspool3.arcor-online.net>
In-Reply-To: <453e9c2a$0$5713$9b4e6d93@newsspool3.arcor-online.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 14
Xref: g2news2.google.com rec.radio.amateur.homebrew:7522
sci.electronics.design:113613

Henry Kiefer wrote:
> . . .
> But I miss something. Maybe something with differences between transmitting
> and receiving with a ferrite antenna. The antenna is not pure reciprocal -
> because the ferrite (or iron powder) can be nonlinear!

1. Ferrite and powdered iron are entirely different materials, with different physical and magnetic characteristics. Powdered iron isn't a good choice for this application.
2. You're not likely to drive either one into a nonlinear region when they're in the form of a rod because of the large air gap in the magnetic path.

Roy Lewallen, W7EL

From -3083361523061110729
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 24 Oct 2006 21:07:33 -0500
Date: Tue, 24 Oct 2006 22:17:35 -0400
From: John Popelish <jpopelish@rica.net>
Organization: This space not available for advertising.
User-Agent: Mozilla Thunderbird 1.0.2 (Windows/20050317)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Ferrite antenna com system

References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
In-Reply-To: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <vIadnRax7Kd4W6PYnZ2dnUVZ_u-dnZ2d@adelphia.com>
Lines: 43
NNTP-Posting-Host: 69.168.60.25
X-Trace: sv3-D5ke662TcNCyqDfw3AlwL5j7C75cJNh0akfVNpq+zRVqxlxKKValDcyW+e1LJR35A1H/
aWV8Zo+p7cC!5ErIDTPGUfj0rkFm19slqNO1isQxiaAwtVs/
5xZp9GeFugbxSWEL53vCiqDA5Iz2vzzgry6gPjyA!rabv42JW23ZLv9mIN7GaJWKi6K7xVQ==
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7523
sci.electronics.design:113648

Henry Kiefer wrote:
> Hello all -
>
> I built a simple ferrite antenna communication system. Unfortunately it
> won't work if I set the sender more distanced than about a meter. That is
> even true with different transmitter configurations.
>
> Here the details:
> Transmitter:
> ferrite antenna: diameter 8mm , 50mm long
> frequency is 77.5KHz, digital modulation is AM 25%
> bit-rate is 1 bit/sec (0 is 100ms carrier 25%, 1 is 200ms carrier 25%)
> insulated copper wire coil 10 turns
>
> The transmitter is self-constructed and delivers a very good signal.
>
> Receiver:
> same antenna copied, but a built-in resonating capacitor.
> ready-to-use WWVB 77.5KHz receiver. Demodulated signal goes to scope.
>
> The transmission works over about one meter without any shortage.
>
>
> Now the problem is that I can change the transmitter parameters but I cannot
> reach a substancial greater distance. I changed:
> - the coil wound times
> - output current to the antenna (measured across a series resistor)
> - added an antenna current sensor coil to sense the antenna current and to
> see if the ferrite antenna saturizes (NO! Very clean sinusoid)

In addition to what others have said, the most field you can
generate with the ferrite rod antenna will occur when it is
almost reaching saturation, and that takes a lot of ampere
turns. You can deliver more ampere turns to the rod than

your transmitter output can deliver if you resonate the coil
with a capacitor. That way, you have the current bouncing
back and forth through the capacitor added to the current
from the amplifier. If the coil-capacitor Q is, say, 100,
there will be 100 times more current through the coil than
the transmitter is delivering. This will probably take a
coil with a considerable mass of copper in it.

With this approach, you might reach 10 meters.

From -881746676250104850
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!
feeder2.news.jippii.net!reader1.news.jippii.net!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Ferrite antenna com system
Message-ID: <e6ttj2lpf1dt6mvvl4tumrlf69k0p6m7tl@4ax.com>
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 39
Date: Wed, 25 Oct 2006 09:54:57 +0300
NNTP-Posting-Host: 195.197.6.71
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.jippii.net 1161759053 195.197.6.71 (Wed, 25 Oct 2006
09:50:53 EEST)
NNTP-Posting-Date: Wed, 25 Oct 2006 09:50:53 EEST
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:7524
sci.electronics.design:113701

On Tue, 24 Oct 2006 22:38:18 +0200, "Henry Kiefer"
<otc_friend@gmx.net> wrote:

>Have someone suggestions to try or good links to read? Especially for:
>- when a ferrite or iron powder rod/bar goes in saturation?
>- optimal rod dimensions
>- optimal coil design (I suggest single layer, resonating with good Q
>capacitor, about 3 to 10 turns)

So there is a resonant circuit at the transmitter and not just a coil?

With such low number of turns (and hence low inductance), the
capacitor would have to be huge to resonate it at 77.5 kHz. Where do
you get high Q capacitors with such capacitances ?

The resonant circuit impedance levels are quite low in this configuration (small L/large C), how do you effectively couple power from the transmitter to this low impedance level at the resonant circuit ?

The skin depth at this frequency is about 0.25 mm, so any wire thicker than 0.5 mm will not utilise the full copper wire, so some kind of Litz wire with separately insulated strands could be used to keep the coil resistance low.

The inductance of some ferrites varies if there is some DC field present. This inductance change could detune the resonant circuit and drop the radiated power. Are you sure that the transmitter coil is not carrying any DC components or some even harmonic distortion, which would cause an unbalanced magnetic field in the ferrite rod ?

>- LNA design for such a low frequency?

The band noise is the dominant (compared to "white" amplifier) noise when listening to the band with your transmitter switched off, the receiver noise performance should be adequate.

Paul OH3LWR

```
From 7047022186979560293
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Ferrite antenna com system
Date: 25 Oct 2006 05:56:43 -0700
Organization: http://groups.google.com
Lines: 63
Message-ID: <1161781003.756985.319530@b28g2000cwb.googlegroups.com>
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 25 Oct 2006 12:56:49 +0000 (UTC)
In-Reply-To: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=170.121.15.35;
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posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news2.google.com rec.radio.amateur.homebrew:7526
sci.electronics.design:113786

Henry Kiefer wrote:
> I built a simple ferrite antenna communication system. Unfortunately it
> won't work if I set the sender more distanced than about a meter. That is
> even true with different transmitter configurations.
>
> Here the details:
> Transmitter:
> ferrite antenna: diameter 8mm , 50mm long
> frequency is 77.5KHz, digital modulation is AM 25%
> bit-rate is 1 bit/sec (0 is 100ms carrier 25%, 1 is 200ms carrier 25%)
> insulated copper wire coil 10 turns
>
> The transmitter is self-constructed and delivers a very good signal.
>
> Receiver:
> same antenna copied, but a built-in resonating capacitor.
> ready-to-use WWVB 77.5KHz receiver. Demodulated signal goes to scope.
>
> The transmission works over about one meter without any shortage.
>
>
> Now the problem is that I can change the transmitter parameters but I cannot
> reach a substancial greater distance. I changed:
> - the coil wound times
> - output current to the antenna (measured across a series resistor)
> - added an antenna current sensor coil to sense the antenna current and to
> see if the ferrite antenna saturizes (NO! Very clean sinusoid)
>
>
> Googling around to find theoretical aspects of ferrite antenne got no good
> results. I spent several hours and read all I can read.
>
>
> Have someone suggestions to try or good links to read? Especially for:
> - when a ferrite or iron powder rod/bar goes in saturation?
> - optimal rod dimensions
> - optimal coil design (I suggest single layer, resonating with good Q
> capacitor, about 3 to 10 turns)
> - LNA design for such a low frequency?
> - antenna field theory in near-field.

I can't really help you with ferrite antennas for transmitting, but can
tell you that if you google around for "lowfer" and the Longwave Club
of America http://www.lwca.org/ you will find a lot about antenna
designs that are suitable for this band. They will also might have
recommendations for frequencies of operation that are legal for
transmission in your home country (I don't even know what that is!)

LNA isn't really applicable here because there is so so so much man-made and natural noise in this band.

I'm a little surprised that your achieved range was so small from a
ferrite rod antenna, actually. Did you really tune both antennas, in
place and in circuit, for resonance? The resonance is so so super
narrow that strays between design and circuit make a big difference. I
mean, CRT screens with flybacks, and faulty flourescent lamp ballasts,
and incadescent dimmers radiate all sorts of crap around the LF
spectrum for blocks, and they aren't even trying to be intentional
transmitters! And don't get me started about induction heaters and
welding machines, those can be heard across several states!

Tim.

From -2341992169751902232
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!news.germany.com!news.teledata-fn.de!newsfeed.arcor.de!newsspool2.arcor-
online.net!news.arcor.de.POSTED!not-for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
<rn1tj218vgh178v9uh63eifjmi8bvugm9u@4ax.com>
<453e9c2a$0$5713$9b4e6d93@newsspool3.arcor-online.net>
<pan.2006.10.24.17.20.44.253605@example.net>
Subject: Re: Ferrite antenna com system
Date: Wed, 25 Oct 2006 17:57:21 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 38
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Organization: Arcor
NNTP-Posting-Date: 25 Oct 2006 18:09:56 CEST
NNTP-Posting-Host: 8723687f.newsspool2.arcor-online.net
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X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7527
sci.electronics.design:113852

> > But I miss something. Maybe something with differences between
transmitting
> > and receiving with a ferrite antenna. The antenna is not pure
reciprocal -

> > because the ferrite (or iron powder) can be nonlinear!
> >
>
> Yes, a ferrite stick antenna works quite well for receivers, but not for
> transmitters. Try winding a few dozen turns around the whole room - i.e.,
> up the wall, across the ceiling, down the other wall, across the floor,
> and so on. Or, you could wrap a piece of 50-conductor ribbon cable, and
> make loops by soldering the ends together offset by 1. ;-)

You made my day :)
BTW: Your idea with the ribbon cable gives you a very easy made
transformator if using clamping connectors. This works very good. I
practiced it 10 years ago.

I heart it several times that a ferrite stick antenna cannot work as a
useful transmitter antenna. But why?????

>
> I don't know very much about antenna theory, but I know that the bigger
> the better. ;-)

Sure, for reasonable antennas. But if the antenna is very VERY big in
relation to wavelength it even cannot work! Read somewhere.

>
> Something's telling me that it's theoretically possible to transmit with
> a ferrite stick, but from the kind of power you'd have to run through it,
> it would probably blow up. =:-O

I found no saturation state but I have not enough power at the moment to
drive it very powerful. Something I try later ...

Regards -
Henry

From -1449590605385402196
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.germany.com!news.belwue.de!newsfeed.ision.net!newsfeed2.easynews.net!ision!newsfeed.arcor.de!newsspool1.arcor-online.net!news.arcor.de.POSTED!not-for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
<vIadnRax7Kd4W6PYnZ2dnUVZ_u-dnZ2d@adelphia.com>
Subject: Re: Ferrite antenna com system
Date: Wed, 25 Oct 2006 18:04:00 +0200
X-Priority: 3
X-MSMail-Priority: Normal

X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 22
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Organization: Arcor
NNTP-Posting-Date: 25 Oct 2006 18:09:56 CEST
NNTP-Posting-Host: 8723687f.newsspool2.arcor-online.net
X-Trace: DXC=_fQYmQbM0i;gP]QSEBQ^d4A9EHlD;3Yc24Fo<]lROoR1Fl8W>\BH3Y2R\
[b0PdZ]95VX4M12AVlM;HYl5Dd>ETL3gNj4E>4D;A0]HbFeEAD:i;
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7528
sci.electronics.design:113853

> In addition to what others have said, the most field you can
> generate with the ferrite rod antenna will occur when it is
> almost reaching saturation, and that takes a lot of ampere
> turns. You can deliver more ampere turns to the rod than
> your transmitter output can deliver if you resonate the coil
> with a capacitor. That way, you have the current bouncing
> back and forth through the capacitor added to the current
> from the amplifier. If the coil-capacitor Q is, say, 100,
> there will be 100 times more current through the coil than
> the transmitter is delivering. This will probably take a
> coil with a considerable mass of copper in it.

John, that is what I have seen! I resonated the antenna coil and driven it with it's resonance frequency. Seems that the achievable distance was a little more than the circuit without resonating capacitor.

You say, that driving the ferrite rod into saturation will force it to leave more power into air? Why?

- Henry

From -5942371825002495812
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news2.euro.net!
newsfeed.freenet.de!bolzen.all.de!newsfeed.ision.net!newsfeed2.easynews.net!ision!
newsfeed.arcor.de!newsspool3.arcor-online.net!news.arcor.de.POSTED!not-for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
<rn1tj218vgh178v9uh63eifjmi8bvugm9u@4ax.com>
<453e9c2a$0$5713$9b4e6d93@newsspool3.arcor-online.net>
<12jtc01a1fatce0@corp.supernews.com>
Subject: Re: Ferrite antenna com system

Date: Wed, 25 Oct 2006 17:59:43 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
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NNTP-Posting-Host: 8723687f.newsspool2.arcor-online.net
X-Trace: DXC=_fQYmQbM0i;gP]QSEBQ^d4A9EHlD;3Yc24Fo<]lROoR1Fl8W>\BH3Y2R\
[b0PdZ]95VX4M12AVlM;HYl5Dd>ETL3gNj4E>4D;A0]HbFeEAD:i;
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7529
sci.electronics.design:113854

> 1. Ferrite and powdered iron are entirely different materials, with different physical and magnetic characteristics. Powdered iron isn't a good choice for this application.

Powdered iron should work better because of the higher permeability even under heavy load in comparision to ferrite. I think so in theory - not tested.

> 2. You're not likely to drive either one into a nonlinear region when they're in the form of a rod because of the large air gap in the magnetic path.

Can you explain this more detailed Ron? What will happen with the air gap? The losses in the air gap radiates and that is the antenna function?

- Henry

From 8739444265822136966
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.gamma.ru!Gamma.RU!
newsfeed.icl.net!newsfeed.fjserv.net!newsfeed.arcor.de!newsspool2.arcor-online.net!news.arcor.de.POSTED!not-for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
<e6ttj2lpf1dt6mvvl4tumrlf69k0p6m7tl@4ax.com>
Subject: Re: Ferrite antenna com system
Date: Wed, 25 Oct 2006 18:36:48 +0200
X-Priority: 3
X-MSMail-Priority: Normal

X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 81
Message-ID: <453f9398$0$27619$9b4e6d93@newsspool2.arcor-online.net>
Organization: Arcor
NNTP-Posting-Date: 25 Oct 2006 18:40:57 CEST
NNTP-Posting-Host: 8723687f.newsspool2.arcor-online.net
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X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7530
sci.electronics.design:113873

> >Have someone suggestions to try or good links to read? Especially for:
> >- when a ferrite or iron powder rod/bar goes in saturation?
> >- optimal rod dimensions
> >- optimal coil design (I suggest single layer, resonating with good Q
> >capacitor, about 3 to 10 turns)
>
> So there is a resonant circuit at the transmitter and not just a coil?
>

I tested it as resonating circuit using the original time-code receiver
antenna AND a second time without the capacitor.
Maybe I got a little more power in the air with the resonating circuit, but
it was not very distingiuable.

> With such low number of turns (and hence low inductance), the
> capacitor would have to be huge to resonate it at 77.5 kHz. Where do
> you get high Q capacitors with such capacitances ?

I don't know the exact manufacturer of the time-code receiver ferrite
antenna but I comparable model reads:
L=900uH
bandwidth=700Hz
n=94
see original data
http://www.hkw-elektronik.de/pdfenglisch/AFET100-77,5-DE.pdf
It is not the same antenna but very similar.

The original foil-capacitor is 682 labeled. I don't measured it but I think
it should be 6800pF reading.

For my second experiment I used no capacitor and turns=10.

If I would find a PSPICE model for an ferrite antenna ...

>
> The resonant circuit impedance levels are quite low in this
> configuration (small L/large C), how do you effectively couple power
> from the transmitter to this low impedance level at the resonant
> circuit ?

Hm. I thought here: just trying different turns value to achieve this. The coil is the impedance transformer for the ferrite rod (=antenna). I'm wrong here?

>
> The skin depth at this frequency is about 0.25 mm, so any wire thicker
> than 0.5 mm will not utilise the full copper wire, so some kind of
> Litz wire with separately insulated strands could be used to keep the
> coil resistance low.

The original coil is thinner than 0.3mm. If I compare it to my 0.3mm wire maybe it is 0.18mm. The second experiment with the 10 turns coil is 0.3mm enamelled copper wire.
I will give Litz wire a try if the system as such works...

>
> The inductance of some ferrites varies if there is some DC field
> present. This inductance change could detune the resonant circuit and
> drop the radiated power. Are you sure that the transmitter coil is not
> carrying any DC components or some even harmonic distortion, which
> would cause an unbalanced magnetic field in the ferrite rod ?

Good question. I series blocked DC with a WIMA MKS4 1.0uF 100VDC high-quality capacitor. As measured the "big" capacitor is outside the bandwidth of the antenna.

I don't think there is any DC component left. And yes, there is no magnet on my desk laying around :-)
Is there any internal rectifiation phanomen in the ferrite possible?

>
> >- LNA design for such a low frequency?
>
> The band noise is the dominant (compared to "white" amplifier) noise
> when listening to the band with your transmitter switched off, the
> receiver noise performance should be adequate.

How much band noise should I expect?

- Henry

From 3045642679237256707
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.icl.net!news-lond.gip.net!news.gsl.net!gip.net!lon04-news-philips!53ab2750!not-for-mail

Message-ID: <bkf414-hkb.ln1@c2968.soton.sc.philips.com>
From: Iwo Mergler <Iwo.Mergler@soton.sc.philips.com>
Subject: Re: Ferrite antenna com system
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Followup-To: rec.radio.amateur.homebrew
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
Lines: 62
Organization: Not organised
User-Agent: KNode/0.9.2
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Date: Wed, 25 Oct 2006 17:23:07 +0100
NNTP-Posting-Host: 161.85.127.140
X-Complaints-To: newsmaster@rain.fr
X-Trace: lon04-news-philips 1161795131 161.85.127.140 (Wed, 25 Oct 2006 16:52:11 GMT)
NNTP-Posting-Date: Wed, 25 Oct 2006 16:52:11 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7531 sci.electronics.design:113877

Henry Kiefer wrote:

> Hello all -
>
> I built a simple ferrite antenna communication system. Unfortunately it
> won't work if I set the sender more distanced than about a meter. That is
> even true with different transmitter configurations.
>
> Here the details:
> Transmitter:
> ferrite antenna: diameter 8mm , 50mm long
> frequency is 77.5KHz, digital modulation is AM 25%
> bit-rate is 1 bit/sec (0 is 100ms carrier 25%, 1 is 200ms carrier 25%)
> insulated copper wire coil 10 turns
>
> The transmitter is self-constructed and delivers a very good signal.
>
> Receiver:
> same antenna copied, but a built-in resonating capacitor.
> ready-to-use WWVB 77.5KHz receiver. Demodulated signal goes to scope.
>
> The transmission works over about one meter without any shortage.
>
>
> Now the problem is that I can change the transmitter parameters but I
> cannot reach a substancial greater distance. I changed:
> - the coil wound times
> - output current to the antenna (measured across a series resistor)
> - added an antenna current sensor coil to sense the antenna current and to
> see if the ferrite antenna saturizes (NO! Very clean sinusoid)
>
>

> Googling around to find theoretical aspects of ferrite antenne got no good
> results. I spent several hours and read all I can read.
>
>
> Have someone suggestions to try or good links to read? Especially for:
> - when a ferrite or iron powder rod/bar goes in saturation?
> - optimal rod dimensions
> - optimal coil design (I suggest single layer, resonating with good Q
> capacitor, about 3 to 10 turns)
> - LNA design for such a low frequency?
> - antenna field theory in near-field.
>
> If you need further details please ask.
>
> Thanks in advance.
>
> Regards -
> Henry

Efficient antennas at that frequency are effectively very long
bits of wire. The ferrite rod is small compared to the wavelength
and very inefficient at generating a far field.

This is the antenna of the DCF77 transmitter (same frequency):
http://de.wikipedia.org/wiki/Bild:Dcf77.jpg

Kind regards,

Iwo

```
From 1735345631397423667
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-
mail
From: jpopelish@rica.net
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Ferrite antenna com system
Date: 25 Oct 2006 09:55:14 -0700
Organization: http://groups.google.com
Lines: 58
Message-ID: <1161795314.438145.225230@e3g2000cwe.googlegroups.com>
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
   <vIadnRax7Kd4W6PYnZ2dnUVZ_u-dnZ2d@adelphia.com>
   <453f8c54$1$27606$9b4e6d93@newsspool2.arcor-online.net>
NNTP-Posting-Host: 151.123.128.10
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161795328 17567 127.0.0.1 (25 Oct 2006 16:55:28 GMT)
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 25 Oct 2006 16:55:28 +0000 (UTC)
In-Reply-To: <453f8c54$1$27606$9b4e6d93@newsspool2.arcor-online.net>
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X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; InfoPath.1; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=151.123.128.10;
   posting-account=Jn0CFwwAAABsD4-eS0hZ1Zjax8A9t7Fb
Xref: g2news2.google.com rec.radio.amateur.homebrew:7532 sci.electronics.design:113878

Henry Kiefer wrote:
 and that takes a lot of ampere
> > turns. You can deliver more ampere turns to the rod than
> > your transmitter output can deliver if you resonate the coil
> > with a capacitor. That way, you have the current bouncing
> > back and forth through the capacitor added to the current
> > from the amplifier. If the coil-capacitor Q is, say, 100,
> > there will be 100 times more current through the coil than
> > the transmitter is delivering. This will probably take a
> > coil with a considerable mass of copper in it.
>
> John, that is what I have seen! I resonated the antenna coil and driven it
> with it's resonance frequency. Seems that the achievable distance was a
> little more than the circuit without resonating capacitor.
>
> You say, that driving the ferrite rod into saturation will force it to leave
> more power into air? Why?

You misunderstood what I said. It was, " the most field you can generate with the ferrite rod antenna will occur when it is almost reaching saturation,"

If you saturate the rod, the field you generate will have lotsof 3rd harmonic components in it, but little more of the fundamental. I was trying to emphasize that you will need as strong a magnitic field as possible aat the transmitting antenna, and just below saturation is that limit, when a ferrite core is involved.

If the rod has a large lenght to diameter ratio (say , above 10) then I think the uptimum coil arrangement on the rod also doffers considerably for the transmitting and receiving cases, since the receiving case does not deal with saturation.

In the receiving case, the end sections of the rod act as flux collectors, and only the middle thirs or so has almost all the collected flux passing through it, so this third is the optimum place for the coil. /in the transmitting case, the rod has a tendency to saturate at the center, first, with this arrangement, and you want essentially the whole rod to approach satuation at the same ampere turns. This will produce a field that acts as if it has been produced

by the full length of the rod. You can achieve something close ot this
by spreading the turns out, all over the rod, with an extra
concentration (a second or third layer layer, perhaps) at the ends.
Something like this (shown in cross section. View with fixed width
font i.e. Courier, so charcters are on grid pattern):

* = wire in cross section
# = rod

```
 ***                  ***
 ******            ******
 ************************
##########################
 ************************
 ******            ******
 ***                  ***
```

From 8038817690183433848
X-Google-Thread: fc2a5,801b86418a42e184,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!news-in-01.newsfeed.easynews.com!easynews.com!easynews!newspeer.tds.net!216.168.1.163.MISMATCH!sn-xt-sjc-03!sn-xt-sjc-01!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Amplifier output matching
Date: Wed, 25 Oct 2006 10:02:29 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12jv656e84fgeeb@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-Complaints-To: abuse@supernews.com
Lines: 21
Xref: g2news2.google.com rec.radio.amateur.homebrew:7533

On a reciever, I'm using a MMIC LNA at VHF (2m), and while it's quite clear to me why I need to match at the amplifier's input -- to minimize VSWR and get as much of the signal from the antenna into the system -- it's not quite to clear to me just how important output matching is. The S22 parameters for this LNA are very close to an open circuit with a little capacitance -- I expect the output looks back into a drain or something else that's a reasonably decent current source at RF, and you see that shunted by parasitic capacitances.

So... how important is it that I bother to build a matching network at the output? (I'll be "outputting" to another ~50 ohm input.) It doesn't really seem that important, and building something like an L-match with de-Q-ing resistor drops the gain a couple dB anyway.

I know that for a transmitter output matching is important so that reflections from poor or non-existant terminations don't blow up the output amplifier, but for low-level signals as in a receiver it wouldn't seem to matter so much?

Thanks,
---Joel Kolstad

```
From 7564685811749740921
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.karotte.org!
news2.arglkargh.de!noris.net!newsfeed.arcor.de!newsspool4.arcor-online.net!
news.arcor.de.POSTED!not-for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net> <bkf414-
hkb.ln1@c2968.soton.sc.philips.com>
Subject: Re: Ferrite antenna com system
Date: Wed, 25 Oct 2006 18:55:18 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 15
Message-ID: <453f9ac9$0$27625$9b4e6d93@newsspool2.arcor-online.net>
Organization: Arcor
NNTP-Posting-Date: 25 Oct 2006 19:11:37 CEST
NNTP-Posting-Host: 09d9a42c.newsspool2.arcor-online.net
X-Trace:
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Yl5Dd>ETLCgNj4E>4D;A@4gahI7j:b9G
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7535
```

> Efficient antennas at that frequency are effectively very long
> bits of wire. The ferrite rod is small compared to the wavelength
> and very inefficient at generating a far field.
>
> This is the antenna of the DCF77 transmitter (same frequency):
> http://de.wikipedia.org/wiki/Bild:Dcf77.jpg

OK Iwo. But why a small receiving ferrite antenna works here? A non-saturated (=linear, and that means the superposition theorem works) antenna system is reciprocal as antenna theory predicts. So you should explain where the difference is!

- Henry

From 8841546457133523083
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.germany.com!newsfeed.freenet.de!
newsfeed01.chello.at!newsfeed.arcor.de!newsspool1.arcor-online.net!
news.arcor.de.POSTED!not-for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
<1161781003.756985.319530@b28g2000cwb.googlegroups.com>
Subject: Re: Ferrite antenna com system
Date: Wed, 25 Oct 2006 18:52:09 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 46
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Organization: Arcor
NNTP-Posting-Date: 25 Oct 2006 19:11:37 CEST
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Yl5Dd>ETLCgNj4E>4D;A@4gahI7j:b9G
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7534
sci.electronics.design:113883

> I can't really help you with ferrite antennas for transmitting, but can
> tell you that if you google around for "lowfer" and the Longwave Club
> of America http://www.lwca.org/ you will find a lot about antenna
> designs that are suitable for this band. They will also might have
> recommendations for frequencies of operation that are legal for
> transmission in your home country (I don't even know what that is!)

Thanks. I will look there.

> I'm a little surprised that your achieved range was so small from a
> ferrite rod antenna, actually. Did you really tune both antennas, in
> place and in circuit, for resonance? The resonance is so so super
> narrow that strays between design and circuit make a big difference. I
> mean, CRT screens with flybacks, and faulty flourescent lamp ballasts,
> and incadescent dimmers radiate all sorts of crap around the LF
> spectrum for blocks, and they aren't even trying to be intentional

> transmitters! And don't get me started about induction heaters and
> welding machines, those can be heard across several states!

Maybe the time-code receiving IC is a bad design. I don't know. It's operating current is 500uA only. That is very small. It can receive the time-code over 2000km with such an antenna with an transmitter EIRP of 30KW. The receiving antenna is 700Hz bandwidth. I don't think this is super narrow. Even if we look at the time-code receiver quartz filter with a bandwidth of about 10Hz I can met it with my stable wave generator. It is a PLL-design with a clock quartz. Should be typical 10ppm. I don't have a very good frequency meter to verify it.

In my second transmitter experiment I used a not-resonated driver design. So there are no problems with detuning the transmit antenna expected. It is just driven by the 77.5KHz power signal.

CRT screen is off if I experiment. Otherwise I seen a very big CRT signal at the receiver...

If the two ferrite rods will detune because of the close proximity I cannot control it. I don't think so.

If you can hear induction heaters or something this is surely with a very big antenna and a resonable good receiver design.

- Henry

```
From 8334397155400916212
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newsfeed.news2me.com!newsfeed.icl.net!proxad.net!
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news.belwue.de!newsfeed.arcor.de!newsspool3.arcor-online.net!news.arcor.de.POSTED!
not-for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
<vIadnRax7Kd4W6PYnZ2dnUVZ_u-dnZ2d@adelphia.com>
<453f8c54$1$27606$9b4e6d93@newsspool2.arcor-online.net>
<1161795314.438145.225230@e3g2000cwe.googlegroups.com>
Subject: Re: Ferrite antenna com system
Date: Wed, 25 Oct 2006 19:05:47 +0200
X-Priority: 3
X-MSMail-Priority: Normal
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X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 39
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Organization: Arcor
NNTP-Posting-Date: 25 Oct 2006 19:11:37 CEST
NNTP-Posting-Host: 09d9a42c.newsspool2.arcor-online.net
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Yl5Dd>ETLCgNj4E>4D;A@4gahI7j:b9G
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7536
sci.electronics.design:113884

>
> If you saturate the rod, the field you generate will have lotsof 3rd
> harmonic components in it, but little more of the fundamental. I was
> trying to emphasize that you will need as strong a magnitic field as
> possible aat the transmitting antenna, and just below saturation is
> that limit, when a ferrite core is involved.

I understand that. I added a second coil on the ferrite rod to measure the
antenna current and set it just below the point where I saw harmonics (or
say non-sinusial) waveform on the scope.

>
> If the rod has a large lenght to diameter ratio (say , above 10) then I
> think the uptimum coil arrangement on the rod also doffers considerably
> for the transmitting and receiving cases, since the receiving case does
> not deal with saturation.
>
> In the receiving case, the end sections of the rod act as flux
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> by the full length of the rod. You can achieve something close ot this
> by spreading the turns out, all over the rod, with an extra
> concentration (a second or third layer layer, perhaps) at the ends.
> Something like this (shown in cross section. View with fixed width
> font i.e. Courier, so charcters are on grid pattern):

That is a very interesting configuration. Never seen such a design. I read
about a old-fashion remote controller system having a ferrite antenna
transmitter. There someone wrote, the transmitter antenna was a mignon
battery-shaped ferrite rod. e.g. much shorter but wider than mine. So an
optimum ferrite transmitter antenna is maybe more like a fat battery shaped.

- Henry

```
From -8900028421655482467
X-Google-Thread: fc2a5,801b86418a42e184
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-
mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Amplifier output matching
Date: 25 Oct 2006 10:25:16 -0700
Organization: http://groups.google.com
Lines: 43
Message-ID: <1161797115.954756.14850@e3g2000cwe.googlegroups.com>
References: <12jv656e84fgeeb@corp.supernews.com>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 25 Oct 2006 17:25:21 +0000 (UTC)
In-Reply-To: <12jv656e84fgeeb@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7537
```

Joel Kolstad wrote:

> On a reciever, I'm using a MMIC LNA at VHF (2m), and while it's quite clear to
> me why I need to match at the amplifier's input -- to minimize VSWR and get as
> much of the signal from the antenna into the system -- it's not quite to clear
> to me just how important output matching is. The S22 parameters for this LNA
> are very close to an open circuit with a little capacitance -- I expect the
> output looks back into a drain or something else that's a reasonably decent
> current source at RF, and you see that shunted by parasitic capacitances.
>
> So... how important is it that I bother to build a matching network at the
> output? (I'll be "outputting" to another ~50 ohm input.) It doesn't really
> seem that important, and building something like an L-match with de-Q-ing
> resistor drops the gain a couple dB anyway.
>
> I know that for a transmitter output matching is important so that reflections
> from poor or non-existant terminations don't blow up the output amplifier, but
> for low-level signals as in a receiver it wouldn't seem to matter so much?
>
> Thanks,
> ---Joel Kolstad

OK, since you called it an LNA, I assume you want to take advantage of the low noise. In that case, you do NOT necessarily want to match the input for low SWR. You want to match to the amplifier's input noise resistance: the equivalent input noise voltage divided by the equivalent input noise current. This in general is NOT the same as the input impedance. Adjust the input match for the lowest noise figure, not the lowest SWR, if it's low noise you want.

Output matching will transfer the greatest power to the load. Assuming S12 is very low, adjusting the output matching will not materially affect the input power, so maximizing the output power will maximize the gain. You may or may not have a need to do that. And you need to pay attention to amplifier stability: is it unconditionally stable, or must you keep the load within some bounds to keep it stable? Have a look for articles about "maximum available gain" and "maximum usable gain." For example, see http://www.microwaves101.com/encyclopedia/kfactor.cfm#mag.

Cheers,
Tom

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From -6990420475776328809
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!feeder1.news.jippii.net!
reader1.news.jippii.net!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Ferrite antenna com system
Message-ID: <nu7vj292krjbt5funrbn09kcflbrvevn1n@4ax.com>
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
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MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 23
Date: Wed, 25 Oct 2006 20:41:06 +0300
NNTP-Posting-Host: 195.197.6.117
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.jippii.net 1161797820 195.197.6.117 (Wed, 25 Oct 2006
20:37:00 EEST)
NNTP-Posting-Date: Wed, 25 Oct 2006 20:37:00 EEST
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:7538
sci.electronics.design:113898
```

On Wed, 25 Oct 2006 17:57:21 +0200, "Henry Kiefer"
<otc_friend@gmx.net> wrote:

>> Yes, a ferrite stick antenna works quite well for receivers, but not for
>> transmitters. Try winding a few dozen turns around the whole room - i.e.,
>> up the wall, across the ceiling, down the other wall, across the floor,
>> and so on. Or, you could wrap a piece of 50-conductor ribbon cable, and
>> make loops by soldering the ends together offset by 1. ;-)
>
>You made my day :)
>BTW: Your idea with the ribbon cable gives you a very easy made
>transformator if using clamping connectors. This works very good. I
>practiced it 10 years ago.

The problem with loop antennas made of ribbon cable (or other
multiconductor cable connected this way) is the stray capacitance
between turns. The self resonance frequency (without external
capacitor) may be below the band of interest, so you can not resonate
such antenna with an external capacitor.

Paul OH3LWR

From 2118985587736779016
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a
X-Google-Attributes: gidfc2a5,gid112d1e,public
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Path: g2news2.google.com!news3.google.com!news2.volia.net!newsfeed01.sul.t-online.de!t-online.de!newsfeed.arcor.de!newsspool4.arcor-online.net!news.arcor.de.POSTED!not-for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
<rn1tj218vgh178v9uh63eifjmi8bvugm9u@4ax.com>
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<nu7vj292krjbt5funrbn09kcflbrvevn1n@4ax.com>
Subject: Re: Ferrite antenna com system
Date: Wed, 25 Oct 2006 19:41:59 +0200
X-Priority: 3
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Lines: 12
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NNTP-Posting-Date: 25 Oct 2006 20:03:19 CEST

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:4^<Ni>N`
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7539
sci.electronics.design:113913
```

> The problem with loop antennas made of ribbon cable (or other
> multiconductor cable connected this way) is the stray capacitance
> between turns. The self resonance frequency (without external
> capacitor) may be below the band of interest, so you can not resonate
> such antenna with an external capacitor.

I found it very useful for design of hard-driven Power MOSFET driver transformator till 400KHz without problems.

- Henry

```
From 5686372145704485096
X-Google-Thread: fc2a5,801b86418a42e184
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!newsfeed.stanford.edu!
sn-xt-sjc-03!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-
mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Amplifier output matching
Date: Wed, 25 Oct 2006 11:09:52 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12jva3hp0qkbef@corp.supernews.com>
References: <12jv656e84fgeeb@corp.supernews.com>
<1161797115.954756.14850@e3g2000cwe.googlegroups.com>
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X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-Complaints-To: abuse@supernews.com
Lines: 32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7540
```

Hi Tom,

Thanks for the information; someone else pointed me yesterday to the idea that you'd generally match the input for optimum noise performance rather than optimum power transfer. The data sheet claims that the optimum noise figure is 0.8dB, but the part itself is marketed as "typical 1.8dB NF" -- which they obtained from their own eval board that, as far as I can tell, was matched pretty close to optimum power transfer. In any case, at present mine is also matched at the input for optimum power transfer, and I'll measure its noise figure and see whether or not I'm around 1.8dB or better... if so I don't think I'm going to worry about it too much.

> Output matching will transfer the greatest power to the load.

Yeah, but it's not practical, is it? I'm looking back at (approximately) a current source, and my load is dictated as (approximately) 50 ohms, so the load itself is what's driving the power transferred, no?

> Assuming
> S12 is very low

It is, <0.01 everywhere.

> And you need to
> pay attention to amplifier stability: is it unconditionally stable, or
> must you keep the load within some bounds to keep it stable?

I haven't calculated its k factor; I'll do that soon -- thanks for the link.

---Joel

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Path: g2news2.google.com!postnews.google.com!f16g2000cwb.googlegroups.com!not-for-mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ferrite antenna com system
Date: 25 Oct 2006 12:47:11 -0700
Organization: http://groups.google.com
Lines: 24
Message-ID: <1161805631.198847.193790@f16g2000cwb.googlegroups.com>
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
   <bkf414-hkb.ln1@c2968.soton.sc.philips.com>
   <453f9ac9$0$27625$9b4e6d93@newsspool2.arcor-online.net>
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Mime-Version: 1.0
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NNTP-Posting-Date: Wed, 25 Oct 2006 19:47:16 +0000 (UTC)
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Complaints-To: groups-abuse@google.com
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Xref: g2news2.google.com rec.radio.amateur.homebrew:7541
```

Henry Kiefer wrote:
> > Efficient antennas at that frequency are effectively very long
> > bits of wire. The ferrite rod is small compared to the wavelength
> > and very inefficient at generating a far field.
> >
> > This is the antenna of the DCF77 transmitter (same frequency):
> > http://de.wikipedia.org/wiki/Bild:Dcf77.jpg
>
> OK Iwo. But why a small receiving ferrite antenna works here? A
> non-saturated (=linear, and that means the superposition theorem works)
> antenna system is reciprocal as antenna theory predicts. So you should
> explain where the difference is!

At LF, rarely is the problem "not enough amplitude of received signal", so past a certain point there isn't much need to make the receiver antenna more efficient. The problem is always "too much noise!". So antenna designs are usually built around nulling out local noise, and loop antennas will get rid of the mostly electric-field local noise. And they have some directionality (notably sharp nulls) which can help get rid of specific further-away noise.

Tim.

```
From -2222726653993455489
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mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Amplifier output matching
Date: 25 Oct 2006 13:09:51 -0700
Organization: http://groups.google.com
Lines: 52
Message-ID: <1161806991.334799.321720@e3g2000cwe.googlegroups.com>
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In-Reply-To: <12jva3hp0qkbef@corp.supernews.com>
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X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7542

Joel Kolstad wrote:

> Hi Tom,
>
> Thanks for the information; someone else pointed me yesterday to the idea that you'd generally match the input for optimum noise performance rather than optimum power transfer. The data sheet claims that the optimum noise figure is 0.8dB, but the part itself is marketed as "typical 1.8dB NF" -- which they obtained from their own eval board that, as far as I can tell, was matched pretty close to optimum power transfer. In any case, at present mine is also matched at the input for optimum power transfer, and I'll measure its noise figure and see whether or not I'm around 1.8dB or better... if so I don't think I'm going to worry about it too much.
>
> > Output matching will transfer the greatest power to the load.
>
> Yeah, but it's not practical, is it? I'm looking back at (approximately) a current source, and my load is dictated as (approximately) 50 ohms, so the load itself is what's driving the power transferred, no?

Well, no... Clearly it's not exactly a current source. Perhaps it's 1000 ohms, or 10000 ohms, (plus some reactance, of course) which is high but not a pure current source. Then a network that matches 1000 ohms, or 10000 ohms, to 50 ohms (and cancels the reactance), will give you the most power output. That is a linear, small-signal model, but that should be a pretty good approximation for any application where you need a low-noise preamp.

You do need to consider losses in whatever matching network you use; and many matching networks will be highly resonant to transform between impedances that are in a large ratio. Realize that the match at the operating frequency may give you a load at some other frequency which causes instability...

If the source (the output impedance) was really a current source, you could get near-infinite power gain (again, assuming that S12 is zero) by transforming the load to as high an impedance as possible. Consider the small-signal low-frequency model of a bipolar transistor where the output is a current source shunted by a resistance. Assume that (internal effective) resistance is infinite. Now the current from the current source all flows into the load. Since power is i^2*R, increasing R increases the power without bound. A matching network just transforms your practical load (e.g. 50 ohms) to the desired load R.

What's practical depends on how wide a bandwidth you want, and how good
you are at designing and building impedance matching networks. (I can
personally come up with lots of IMpractical networks! ;-)

Cheers,
Tom

From -8359034137295756639
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Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-03!sn-xt-sjc-01!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Ferrite antenna com system
Date: Wed, 25 Oct 2006 13:10:56 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12jvh6h7qne1lae@corp.supernews.com>
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
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X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-Complaints-To: abuse@supernews.com
Lines: 15
Xref: g2news2.google.com rec.radio.amateur.homebrew:7543
sci.electronics.design:113965

"Paul Keinanen" <keinanen@sci.fi> wrote in message
news:nu7vj292krjbt5funrbn09kcflbrvevn1n@4ax.com...
> The problem with loop antennas made of ribbon cable (or other
> multiconductor cable connected this way) is the stray capacitance
> between turns. The self resonance frequency (without external
> capacitor) may be below the band of interest, so you can not resonate
> such antenna with an external capacitor.

Ob-flippant remark: Sure you can, you just need a negative capacitor! ;-)

I suppose if one actually built a negative capacitor out of, e.g., a gyrator,
the noise performance would be pretty much shot? Might be OK for a
transmitting antenna, though?

From -3548167097433657366
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X-Google-Attributes: gidfc2a5,gid112d1e,public
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From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Ferrite antenna com system
Date: Wed, 25 Oct 2006 13:14:02 -0700
Organization: EZNEC Antenna Software
Message-ID: <12jvhcciaj4vee@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
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X-Complaints-To: abuse@supernews.com
Lines: 47
Xref: g2news2.google.com rec.radio.amateur.homebrew:7544
sci.electronics.design:113966

Henry Kiefer wrote:
>> 1. Ferrite and powdered iron are entirely different materials, with
>> different physical and magnetic characteristics. Powdered iron isn't a
>> good choice for this application.
>
> Powdered iron should work better because of the higher permeability even
> under heavy load in comparision to ferrite. I think so in theory - not
> tested.

The effective permeability of a rod is dictated largely by the air gap in the magnetic path, which is a function of the length/diameter ratio of the rod. Powdered iron in general has very low permeability compared to ferrite. If you really wanted to apply a huge amount of power to a rod antenna, powdered iron might be a better choice because of its high saturation flux density. But I doubt you could get the Q of a ferrite rod antenna at the frequency in question, so it would be considerably less efficient. You'd probably end up with less power radiated than if you ran less power to a ferrite rod antenna, and a less efficient antenna would impact your received signal. You'd have to crunch some numbers or make measurements to find out for sure.

>> 2. You're not likely to drive either one into a nonlinear region when
>> they're in the form of a rod because of the large air gap in the
>> magnetic path.
>
> Can you explain this more detailed Ron? What will happen with the air gap?
> The losses in the air gap radiates and that is the antenna function?

The presence of even a small air gap has the effect of reducing the effective permeability of the core and therefore the inductance of the winding. It also dramatically reduces the core flux density for a given number of winding amp-turns. This makes it very hard to saturate. Inductors used for power applications commonly have a small core gap for this reason. A rod has a very large air gap in the path -- from one end of the rod, curving around outside the rod, to the other. And for many ferrites used at radio frequency, the material loss is high enough that the core would be hot enough to explode well before you reach a flux level anywhere close to saturation. This isn't true of all materials at all frequencies, of course.

The radiation takes place from the field outside the core, i.e., in the air gap. If you didn't have a gap, you wouldn't have any significant radiation.

And it's Roy, not Ron.

Roy Lewallen, W7EL

```
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From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Amplifier output matching
Date: Wed, 25 Oct 2006 14:50:55 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12jvn20kv9omm56@corp.supernews.com>
References: <12jv656e84fgeeb@corp.supernews.com>
<1161797115.954756.14850@e3g2000cwe.googlegroups.com>
<12jva3hp0qkbef@corp.supernews.com>
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X-RFC2646: Format=Flowed; Original
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X-Complaints-To: abuse@supernews.com
Lines: 13
```

```
Xref: g2news2.google.com rec.radio.amateur.homebrew:7545
```

Thanks again Tom, you've really cleared things up for me here.

Here's the concrete numbers... in the center of the band, S22 -- converted back to an impedance -- is 119.5-j90 ohms. With a 2V source, if I conjugate match my 50 ohm load obviously I get 1V across the resistor or 20mW = 13dBm. Without a match... let's see... current around the loop is 2/(119.5-j90+50) = 9.2+j4.89 mA, and power in the 50 ohm load is I^2*R = 3.04+j4.5mW = (looking just at real power) 4.83dBm. So... without a match... I'd be leaving 13-4.83 = 8.18dB of gain "on the floor"... ouch!

---Joel

```
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X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
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for-mail
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From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew
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Subject: Re: Ferrite antenna com system
Date: Thu, 26 Oct 2006 00:08:19 +0200
X-Priority: 3
X-MSMail-Priority: Normal
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X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 24
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Organization: Arcor
NNTP-Posting-Date: 26 Oct 2006 00:10:16 CEST
NNTP-Posting-Host: 5814947b.newsspool3.arcor-online.net
X-Trace: DXC=fSb[Y^21@?8Tia]Ho99G50McF=Q^Z^V384Fo<]lROoR1gUcjd<3m<;28A]AID6oHG?
H2GHD?hOgL1b[W=A9M6<I2abm?f[:OZc0i?JgBl\WE;5
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7546
```

> > OK Iwo. But why a small receiving ferrite antenna works here? A
> > non-saturated (=linear, and that means the superposition theorem works)
> > antenna system is reciprocal as antenna theory predicts. So you should
> > explain where the difference is!
>
> At LF, rarely is the problem "not enough amplitude of received signal",

> so past a certain point there isn't much need to make the receiver
> antenna more efficient. The problem is always "too much noise!". So
> antenna designs are usually built around nulling out local noise, and
> loop antennas will get rid of the mostly electric-field local noise.
> And they have some directionality (notably sharp nulls) which can help
> get rid of specific further-away noise.

The problem is to pump enough energy in the air to overcome the atmospheric noise seen by the receiver.

BTW: The mentioned antenna array picture is NOT the DCF77 sender. DCF77 is exactly two antennas there only. And they have a very good performance thanks to there big outline. They radiate about 30KW out of the 50KW output power of the final amplifier. If I get 1% performance I think I'm good.

- Henry

From -2607837824475532892
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news1.google.com!news.maxwell.syr.edu!newsfeed.icl.net!newsfeed.fjserv.net!newsfeed.ision.net!newsfeed2.easynews.net!ision!newsfeed01.sul.t-online.de!t-online.de!newsfeed.arcor.de!newsspool2.arcor-online.net!news.arcor.de.POSTED!not-for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net> <rn1tj218vgh178v9uh63eifjmi8bvugm9u@4ax.com> <453e9c2a$0$5713$9b4e6d93@newsspool3.arcor-online.net> <12jtc01a1fatce0@corp.supernews.com> <453f8c54$0$27606$9b4e6d93@newsspool2.arcor-online.net> <12jvhcciaj4vee@corp.supernews.com>
Subject: Re: Ferrite antenna com system
Date: Thu, 26 Oct 2006 00:03:58 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 55
Message-ID: <453fe0c8$0$5715$9b4e6d93@newsspool3.arcor-online.net>
Organization: Arcor
NNTP-Posting-Date: 26 Oct 2006 00:10:16 CEST
NNTP-Posting-Host: 5814947b.newsspool3.arcor-online.net
X-Trace: DXC=fSb[Y^21@?8Tia]Ho99G50McF=Q^Z^V384Fo<]lROoR1gUcjd<3m<;28A]AID6oHG?H2GHD?hOgL1b[W=A9M6<I2abm?f[:OZc0i?JgBl\WE;5
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7547 sci.electronics.design:114019

Sorry "Roy" -

> The effective permeability of a rod is dictated largely by the air gap
> in the magnetic path, which is a function of the length/diameter ratio
> of the rod. Powdered iron in general has very low permeability compared
> to ferrite. If you really wanted to apply a huge amount of power to a
> rod antenna, powdered iron might be a better choice because of its high
> saturation flux density. But I doubt you could get the Q of a ferrite
> rod antenna at the frequency in question, so it would be considerably
> less efficient. You'd probably end up with less power radiated than if
> you ran less power to a ferrite rod antenna, and a less efficient
> antenna would impact your received signal. You'd have to crunch some
> numbers or make measurements to find out for sure.

Surely.

>
> >> 2. You're not likely to drive either one into a nonlinear region when
> >> they're in the form of a rod because of the large air gap in the
> >> magnetic path.
> >
> > Can you explain this more detailed Ron? What will happen with the air gap?
> > The losses in the air gap radiates and that is the antenna function?
>
> The presence of even a small air gap has the effect of reducing the
> effective permeability of the core and therefore the inductance of the
> winding. It also dramatically reduces the core flux density for a given
> number of winding amp-turns. This makes it very hard to saturate.
> Inductors used for power applications commonly have a small core gap for
> this reason. A rod has a very large air gap in the path -- from one end
> of the rod, curving around outside the rod, to the other. And for many
> ferrites used at radio frequency, the material loss is high enough that
> the core would be hot enough to explode well before you reach a flux
> level anywhere close to saturation. This isn't true of all materials at
> all frequencies, of course.
>
> The radiation takes place from the field outside the core, i.e., in the
> air gap. If you didn't have a gap, you wouldn't have any significant
> radiation.

I'm not so theory funded to explain why a gap in the core transmits
electromagnetic wave. That is an open question for me.
I even don't understand why a ferrite rod will accumulate magnetic field
lines. There is the explanation of "shorten" the field lines way. Some
mysterical!

If you talk about explosion: What is the power level you mean?
Currently I have a ferrite rod of 9mm diameter and 50mm length, driven by
40mA against 2Vpp.
Do you think it is impossible to pump maybe 5watts into the rod?

- Henry

From 8906420950879403840
X-Google-Thread: fc2a5,801b86418a42e184
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-mail
From: "nx7u" <nx7u@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Amplifier output matching
Date: 25 Oct 2006 15:59:19 -0700
Organization: http://groups.google.com
Lines: 21
Message-ID: <1161817159.262542.230750@m73g2000cwd.googlegroups.com>
References: <12jv656e84fgeeb@corp.supernews.com>
   <1161797115.954756.14850@e3g2000cwe.googlegroups.com>
   <12jva3hp0qkbef@corp.supernews.com>
   <1161806991.334799.321720@e3g2000cwe.googlegroups.com>
   <12jvn20kv9omm56@corp.supernews.com>
NNTP-Posting-Host: 68.99.130.101
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161817165 1981 127.0.0.1 (25 Oct 2006 22:59:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 25 Oct 2006 22:59:25 +0000 (UTC)
In-Reply-To: <12jvn20kv9omm56@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=68.99.130.101;
   posting-account=EhGLLQ0AAAB4_exc6c0XRBSrtJ6jNJK5
Xref: g2news2.google.com rec.radio.amateur.homebrew:7548

To chime in late: typically the routine in LNA design is noise match at the input, then conjugate match at the output considering the effects of the noise match. Really the only reason to play games with the input noise match is either for broadbanding or to address a specific stability issue, which usually is better handled by judicious feedback.

Joel Kolstad wrote:
> Thanks again Tom, you've really cleared things up for me here.
>
> Here's the concrete numbers... in the center of the band, S22 -- converted
> back to an impedance -- is 119.5-j90 ohms. With a 2V source, if I conjugate
> match my 50 ohm load obviously I get 1V across the resistor or 20mW = 13dBm.
> Without a match... let's see... current around the loop is 2/(119.5-j90+50) =

> 9.2+j4.89 mA, and power in the 50 ohm load is I^2*R = 3.04+j4.5mW = (looking
> just at real power) 4.83dBm. So... without a match... I'd be leaving 13-4.83
> = 8.18dB of gain "on the floor"... ouch!
>
> ---Joel

From -8514728253950010484
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!
138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-04!sn-post-ams-01!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Ferrite antenna com system
Date: Wed, 25 Oct 2006 16:40:00 -0700
Organization: EZNEC Antenna Software
Message-ID: <12jvtehgu2lsla3@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
<rn1tj218vgh178v9uh63eifjmi8bvugm9u@4ax.com>
<453e9c2a$0$5713$9b4e6d93@newsspool3.arcor-online.net>
<12jtc01a1fatce0@corp.supernews.com> <453f8c54$0$27606$9b4e6d93@newsspool2.arcor-online.net> <12jvhcciaj4vee@corp.supernews.com>
<453fe0c8$0$5715$9b4e6d93@newsspool3.arcor-online.net>
In-Reply-To: <453fe0c8$0$5715$9b4e6d93@newsspool3.arcor-online.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 25
Xref: g2news2.google.com rec.radio.amateur.homebrew:7549
sci.electronics.design:114056

Henry Kiefer wrote:
> . . .
> If you talk about explosion: What is the power level you mean?
> Currently I have a ferrite rod of 9mm diameter and 50mm length, driven by
> 40mA against 2Vpp.
> Do you think it is impossible to pump maybe 5watts into the rod?

Dunno. If it had to dissipate most of the 5 watts (which is likely), it would get as hot as a resistor that size dissipating the same power, and that would be pretty hot. Just how hot depends on how well insulated it is, how good the air flow is around it, and how much heat is conducted away through the wires or any other physical connection. The first thing I'd check would be the Curie temperature of the ferrite. If you reach that temperature, the material will lose its magnetic properties, so the antenna impedance will abruptly and dramatically change. At some higher temperature, the ferrite will fracture, maybe violently.

If that gets to be a problem, a lower loss ferrite might be necessary. That usually means lower initial permeability, and probably a lower Q inductor. You'll have to determine what the optimum trade would be.

Shouldn't be any trick to feed some power to one and watch its temperature with a thermocouple.

Roy Lewallen, W7EL

From 6200251669563205724
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread2.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
From: Slow Code <my.mail@no.spam>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net> <nOLWg.2685$Ka1.1928@news01.roc.ny> <28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net> <Z4cXg.2828$ya1.2518@news02.roc.ny> <ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net> <MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 37
Message-ID: <VLS%g.19224$UG4.10081@newsread2.news.pas.earthlink.net>
Date: Wed, 25 Oct 2006 23:51:17 GMT
NNTP-Posting-Host: 4.227.154.38
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1161820277 4.227.154.38 (Wed, 25 Oct 2006 16:51:17 PDT)
NNTP-Posting-Date: Wed, 25 Oct 2006 16:51:17 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6120 rec.radio.amateur.homebrew:7550 rec.radio.amateur.policy:51590 rec.radio.swap:8966

Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in news:MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net:

> Slow Code wrote:
>

>>>> Big Ten-Four on that Good Buddy.
>>> It sounds like you run a lot of 11m, not surprising considering how
>>> much you whine, and it's not alternator whine.
>>
>>
>> I only typed like because I knew you would understand that style of
>> communicating. So, after your license came in the mail what I
>> appliance did you decide to buy? MFJ? Alinco? Cobra?
>
>
> While you are being all holier than thou, what did you design and build
> for your main rig? I'm hoping to be impressed, but expecting to be
> disappointed.
>
> Did the code help you with the design?
>
> I took my Advanced class test down at 1919 M street 36 years ago. I had
> to sit at the desk and copy one solid minute out of five error free at
> 13WPM. I passed it on the first try. I almost failed the sending test,
> as I had never spent much time doing that. I had never made a code
> contact before my test, and I have only made a couple since.
>
> The thing about code contacts is they never seem to want to say anything
> beyond:
>
> WA3XXX DE W6XX RST 5NN WX FB 73 W6XX SK

Contacts like that still help maintain receiving skill. That's important
if you ever have to use CW to save a life.

SC

From -5793269760127417872
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: Wed, 25 Oct 2006 20:13:11 -0400
Message-ID: <nbvvj2lkthm4n6q28i6oc97bq4150dvmba@4ax.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>

```
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<VLS%g.19224$UG4.10081@newsread2.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 42
NNTP-Posting-Date: 25 Oct 2006 23:18:02 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6122
rec.radio.amateur.homebrew:7551 rec.radio.amateur.policy:51598 rec.radio.swap:8973

On Wed, 25 Oct 2006 23:51:17 GMT, Slow Code <my.mail@no.spam> wrote:

>Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
>news:MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net:
>
>> Slow Code wrote:
>>
>>>>> Big Ten-Four on that Good Buddy.
>>>> It sounds like you run a lot of 11m, not surprising considering how
>>>> much you whine, and it's not alternator whine.
>>>
>>>
>>> I only typed like because I knew you would understand that style of
>>> communicating.  So, after your license came in the mail what I
>>> appliance did you decide to buy?  MFJ? Alinco? Cobra?
>>
>>
>> While you are being all holier than thou, what did you design and build
>> for your main rig?  I'm hoping to be impressed, but expecting to be
>> disappointed.
>>
>> Did the code help you with the design?
>>
>> I took my Advanced class test down at 1919 M street 36 years ago.  I had
>> to sit at the desk and copy one solid minute out of five error free at
>> 13WPM. I passed it on the first try.  I almost failed the sending test,
>> as I had never spent much time doing that.  I had never made a code
>> contact before my test, and I have only made a couple since.
>>
>> The thing about code contacts is they never seem to want to say anything
>> beyond:
>>
>> WA3XXX DE W6XX RST 5NN WX FB 73 W6XX SK
>
>
>Contacts like that still help maintain receiving skill.  That's important
>if you ever have to use CW to save a life.
but it will never happen since there is no one to send the distress
call
```

>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

```
From -8993189577251661З0
X-Google-Thread: fc2a5,2b870448415b1023,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.brightview.com!
news.brightview.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 26 Oct 2006 01:21:12 -0500
From: rrah@pencoys.org.uk (Mike W)
Newsgroups: rec.radio.amateur.homebrew
Subject: Help Pse: DSI 5600a freq Counter
Date: Thu, 26 Oct 2006 06:21:07 GMT
Reply-To: rrah@pencoys.org.uk
Message-ID: <4540523e.147990815@news.madasafish.com>
X-Newsreader: Forte Free Agent 1.21/32.243
Lines: 6
NNTP-Posting-Host: 80.189.15.41
X-Trace:
sv3-1iO0gQjaCUeNrsJS+XOvfrIU5iGr10tj84O2eCWOalsk1+s4rqZ8aVBtdslLO4WfAmiG9j9KWEn0MG
Q!lnBhBFBtovPkESXLy3WusBSxvyuIQ6FUeJKvpij7q4vSiFl7EjvheOD6uEzuhf4W4ccd7hsnVRVS!
vEFZblaM8od98teNEQySOwLG4vBI3Q7+
X-Complaints-To: abuse@brightview.com
X-DMCA-Complaints-To: abuse@brightview.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7552
```

Hi Folks, I have a need for the circuit diagram of the crystal
timebase oscillator for the DSI 5600A frequency counter. I have
diagrams of the main board and the display board but, as Murphys law
states, the fault is in the bit I don't have the diagrams for. Any
help appreciated.
Thanks, Mike G8NXD

```
From -4437103629651510731
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.tele.dk!
feed118.news.tele.dk!news.tele.dk!small.news.tele.dk!news.astraweb.com!newsrouter-
```

eu.astraweb.com!194.255.237.131.MISMATCH!newsfeed101.telia.com!nf02.dk.telia.net!
newsfeed.bahnhof.se!195.197.54.117.MISMATCH!feeder1.news.jippii.net!
reader1.news.jippii.net!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: Ferrite antenna com system
Message-ID: <krm0k2hiadqu4r5gsg70veeo67am4homor@4ax.com>
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
<e6ttj2lpf1dt6mvvl4tumrlf69k0p6m7tl@4ax.com>
<453f9398$0$27619$9b4e6d93@newsspool2.arcor-online.net>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 30
Date: Thu, 26 Oct 2006 09:59:11 +0300
NNTP-Posting-Host: 195.197.6.91
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.jippii.net 1161845705 195.197.6.91 (Thu, 26 Oct 2006
09:55:05 EEST)
NNTP-Posting-Date: Thu, 26 Oct 2006 09:55:05 EEST
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:7553
sci.electronics.design:114126

On Wed, 25 Oct 2006 18:36:48 +0200, "Henry Kiefer"
<otc_friend@gmx.net> wrote:

>> >- LNA design for such a low frequency?
>>
>> The band noise is the dominant (compared to "white" amplifier) noise
>> when listening to the band with your transmitter switched off, the
>> receiver noise performance should be adequate.
>How much band noise should I expect?

When listening at the signal e.g. through an SSB receiver, it is quite easy to know the difference. The equipment noise is more or less constant "hiss", while the band noise is mainly through numerous distant lightnings.

Some field strength measurements made in England at 73 kHz during the summer, using a calibrated meter indicated 25 uV/m in 200 Hz bandwidth, which would produce about 120 dB more power from a full sized (2 km) dipole than a single matched resistor at the receiver input.

Thus, even if the actual antenna efficiency was -100 dB and the LNA noise figure as bad as 10 dB, the band noise would still be stronger than the amplifier noise.

While an antenna with -100 dB gain would be usable for receiving, such antenna would be useless for transmitting.

Paul OH3LWR

From -410752865952145142
X-Google-Thread: fc2a5,801b86418a42e184
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!news.glorb.com!feed.xsnews.nl!
feeder.xsnews.nl!proxad.net!cleanfeed3-b.proxad.net!nnrp3-1.free.fr!not-for-mail
Date: Thu, 26 Oct 2006 12:00:48 +0200
From: Fred Bartoli <fred._canxxxel_this_bartoli@RemoveThatAlso_free.fr_AndThisToo>
Reply-To: fred._canxxxel_this_bartoli@RemoveThatAlso_free.fr_AndThisToo
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Amplifier output matching
References: <12jv656e84fgeeb@corp.supernews.com>
<1161797115.954756.14850@e3g2000cwe.googlegroups.com>
<12jva3hp0qkbef@corp.supernews.com>
<1161806991.334799.321720@e3g2000cwe.googlegroups.com>
In-Reply-To: <1161806991.334799.321720@e3g2000cwe.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
X-Antivirus: avast! (VPS 0643-3, 25/10/2006), Outbound message
X-Antivirus-Status: Clean
Lines: 13
Message-ID: <45408760$0$30734$426a34cc@news.free.fr>
Organization: Guest of ProXad - France
NNTP-Posting-Date: 26 Oct 2006 12:01:05 MEST
NNTP-Posting-Host: 82.64.167.190
X-Trace: 1161856865 news-4.free.fr 30734 82.64.167.190:2497
X-Complaints-To: abuse@proxad.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:7554

K7ITM a �crit :
<...>
>
> What's practical depends on how wide a bandwidth you want, and how good
> you are at designing and building impedance matching networks. (I can
> personally come up with lots of IMpractical networks! ;-)
>
1Meg is a pretty high value so we all can conclude that you're excellent :-)

--
Thanks,
Fred.

From 2231631465493558166
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a

```
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news2.volia.net!newsfeed01.sul.t-
online.de!t-online.de!newsfeed.hanau.net!noris.net!newsfeed.arcor.de!
newsspool3.arcor-online.net!news.arcor.de.POSTED!not-for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
<e6ttj2lpf1dt6mvvl4tumrlf69k0p6m7tl@4ax.com>
<453f9398$0$27619$9b4e6d93@newsspool2.arcor-online.net>
<krm0k2hiadqu4r5gsg70veeo67am4homor@4ax.com>
Subject: Re: Ferrite antenna com system
Date: Thu, 26 Oct 2006 15:46:44 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 26
Message-ID: <4540bdd0$0$5723$9b4e6d93@newsspool3.arcor-online.net>
Organization: Arcor
NNTP-Posting-Date: 26 Oct 2006 15:53:21 CEST
NNTP-Posting-Host: 76bd72bc.newsspool3.arcor-online.net
X-Trace:
DXC=QXE<FO`BPVK0YVY]kmLTlDMcF=Q^Z^V3H4Fo<]lROoRAgUcjd<3m<;B[LlDF\EDMbEH2GHD?
hOgLAc29a_baCF>OgGXbHcA7hnI@hTGP<mkYTD
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7555
sci.electronics.design:114209
```

Hi Paul -

> Some field strength measurements made in England at 73 kHz during the
> summer, using a calibrated meter indicated 25 uV/m in 200 Hz
> bandwidth, which would produce about 120 dB more power from a full
> sized (2 km) dipole than a single matched resistor at the receiver
> input.

My receiver bandwidth is about 10Hz because of the 77.5KHz quartz crystal filter. So the sensitivity is better. Is 10*lg(200/10) here correct?

>
> Thus, even if the actual antenna efficiency was -100 dB and the LNA
> noise figure as bad as 10 dB, the band noise would still be stronger
> than the amplifier noise.
>
> While an antenna with -100 dB gain would be usable for receiving, such
> antenna would be useless for transmitting.

It is interesting to learn, that antennas can be noise limited. So reciprocal theorem is not all to know.

Thanks -

Henry

```
From 9208365753294158379
X-Google-Thread: fc2a5,a04b26c6423ee00a
X-Google-Thread: 112d1e,a04b26c6423ee00a
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news2.volia.net!newsfeed01.sul.t-
online.de!t-online.de!newsfeed.hanau.net!noris.net!newsfeed.arcor.de!
newsspool4.arcor-online.net!news.arcor.de.POSTED!not-for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <453e7a1c$0$27608$9b4e6d93@newsspool2.arcor-online.net>
<rn1tj218vgh178v9uh63eifjmi8bvugm9u@4ax.com>
<453e9c2a$0$5713$9b4e6d93@newsspool3.arcor-online.net>
<12jtc01a1fatce0@corp.supernews.com> <453f8c54$0$27606$9b4e6d93@newsspool2.arcor-
online.net> <12jvhcciaj4vee@corp.supernews.com>
<453fe0c8$0$5715$9b4e6d93@newsspool3.arcor-online.net>
<12jvtehgu2lsla3@corp.supernews.com>
Subject: Re: Ferrite antenna com system
Date: Thu, 26 Oct 2006 15:52:05 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 47
Message-ID: <4540bdd1$0$5723$9b4e6d93@newsspool3.arcor-online.net>
Organization: Arcor
NNTP-Posting-Date: 26 Oct 2006 15:53:21 CEST
NNTP-Posting-Host: 76bd72bc.newsspool3.arcor-online.net
X-Trace:
DXC=QXE<FO`BPVK0YVY]kmLTlDMcF=Q^Z^V3H4Fo<]lROoRAgUcjd<3m<;B[LlDF\EDMbEH2GHD?
hOgLAc29a_baCF>OgGXbHcA7hnI@hTGP<mkYTD
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7556
sci.electronics.design:114210
```

Hello Roy -

I will try your suggestions when I build a more powerful power amp.

As the modulation is AM with known 25% there is a interesting measurement methode possible:
Ramp the amplifier from low to high power and make a curve of the AM modulation depth at the receiver or just with a measurement coil at the transmitter ferrite rod. It should show a saturation if the ferrite goes in saturation. I will try this.
There is an open question what a time constant the ferrite will have if it goes into saturation or out of it. And if this is very different if iron

powder is used.

- Henry

"Roy Lewallen" <w7el@eznec.com> schrieb im Newsbeitrag
news:12jvtehgu2lsla3@corp.supernews.com...
> Henry Kiefer wrote:
> > . . .
> > If you talk about explosion: What is the power level you mean?
> > Currently I have a ferrite rod of 9mm diameter and 50mm length, driven by
> > 40mA against 2Vpp.
> > Do you think it is impossible to pump maybe 5watts into the rod?
>
> Dunno. If it had to dissipate most of the 5 watts (which is likely), it
> would get as hot as a resistor that size dissipating the same power, and
> that would be pretty hot. Just how hot depends on how well insulated it
> is, how good the air flow is around it, and how much heat is conducted
> away through the wires or any other physical connection. The first thing
> I'd check would be the Curie temperature of the ferrite. If you reach
> that temperature, the material will lose its magnetic properties, so the
> antenna impedance will abruptly and dramatically change. At some higher
> temperature, the ferrite will fracture, maybe violently.
>
> If that gets to be a problem, a lower loss ferrite might be necessary.
> That usually means lower initial permeability, and probably a lower Q
> inductor. You'll have to determine what the optimum trade would be.
>
> Shouldn't be any trick to feed some power to one and watch its
> temperature with a thermocouple.
>
> Roy Lewallen, W7EL

From 1450998970681629l9
X-Google-Thread: fc2a5,801b86418a42e184
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Amplifier output matching
Date: 26 Oct 2006 08:27:04 -0700
Organization: http://groups.google.com
Lines: 32
Message-ID: <1161876424.307642.174780@b28g2000cwb.googlegroups.com>
References: <12jv656e84fgeeb@corp.supernews.com>
   <1161797115.954756.14850@e3g2000cwe.googlegroups.com>
   <12jva3hp0qkbef@corp.supernews.com>

    <1161806991.334799.321720@e3g2000cwe.googlegroups.com>
    <12jvn20kv9omm56@corp.supernews.com>
NNTP-Posting-Host: 71.112.170.245
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161876429 21296 127.0.0.1 (26 Oct 2006 15:27:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Oct 2006 15:27:09 +0000 (UTC)
In-Reply-To: <12jvn20kv9omm56@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=71.112.170.245;
    posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7557

On Oct 25, 2:50 pm, "Joel Kolstad" <JKolstad71HatesS...@yahoo.com>
wrote:
> Thanks again Tom, you've really cleared things up for me here.
>
> Here's the concrete numbers... in the center of the band, S22 -- converted
> back to an impedance -- is 119.5-j90 ohms. With a 2V source, if I conjugate
> match my 50 ohm load obviously I get 1V across the resistor or 20mW = 13dBm.
> Without a match... let's see... current around the loop is 2/(119.5-j90+50) =
> 9.2+j4.89 mA, and power in the 50 ohm load is I^2*R = 3.04+j4.5mW = (looking
> just at real power) 4.83dBm. So... without a match... I'd be leaving 13-4.83
> = 8.18dB of gain "on the floor"... ouch!
>
> ---Joel

OK, things aren't quite as bad as you've painted them, Joel. Given the analysis you did for the second half, what you need to do for the first half is to look at the power delivered to 119.5 ohms with 1 volt across it. That's 1/119.5 watts, or about 8.4 milliwatts. That's about +9.23dBm That's the maximum power you can get from that source. Into 50 ohms with no matching, the magnitude of the current is 10.42mA. The resistor does NOT care what phase angle relative to your arbitrary reference that is. So the power in that case is 5.43mW, or +7.35dBm. You've left not 8dB, but just under 2dB, of gain "on the floor." Things don't get really bad till the mismatch is quite a bit worse than that. Note that your 2dB occurs with an SWR of about 4:1. At 2:1 SWR, you only lose half a dB.

Cheers,
Tom

From -9131508046011435323
X-Google-Thread: fc2a5,be31a0b727221190,start

```
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f16g2000cwb.googlegroups.com!not-for-mail
From: "hananl" <hlepek@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Am transmitter - vlsi project
Date: 26 Oct 2006 09:48:46 -0700
Organization: http://groups.google.com
Lines: 12
Message-ID: <1161881326.381418.198670@f16g2000cwb.googlegroups.com>
NNTP-Posting-Host: 128.139.226.37
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161881332 7505 127.0.0.1 (26 Oct 2006 16:48:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Oct 2006 16:48:52 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: 1.1 proxy7 (NetCache NetApp/6.0.3P2)
Complaints-To: groups-abuse@google.com
Injection-Info: f16g2000cwb.googlegroups.com; posting-host=128.139.226.37;
   posting-account=GqmHGA0AAAAZje6AHEG7lkkf6XmMKoGZ
Xref: g2news2.google.com rec.radio.amateur.homebrew:7558
```

Hi,
I need to design an AM transmitter as a vlsi project (it needs to be
located on smart dust later on).
Does anyone have any good suggestions were to start from? I am familiar
with vlsi, but don't really know how to implement such a big idea, into
a vlsi simulation and circuit design.
Looking on trasmitter's schemes didn't help, 'cause that's all
resistors, amplifiers and capacitors. How do I translate it into vlsi
design?
Be very glad to any guidance...
Thanks.

```
From -5404402447379672033
X-Google-Thread: fc2a5,2b870448415b1023
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-mail
From: "Telstar Electronics" <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Help Pse: DSI 5600a freq Counter
Date: 26 Oct 2006 10:54:23 -0700
Organization: http://groups.google.com
Lines: 12
Message-ID: <1161885263.254873.3230@e3g2000cwe.googlegroups.com>
```

```
References: <4540523e.147990815@news.madasafish.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161885268 22278 127.0.0.1 (26 Oct 2006 17:54:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Oct 2006 17:54:28 +0000 (UTC)
In-Reply-To: <4540523e.147990815@news.madasafish.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=216.203.30.4;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news2.google.com rec.radio.amateur.homebrew:7559
```

Mike W wrote:

> Hi Folks, I have a need for the circuit diagram of the crystal
> timebase oscillator for the DSI 5600A frequency counter. I have
> diagrams of the main board and the display board but, as Murphys law
> states, the fault is in the bit I don't have the diagrams for. Any
> help appreciated.
> Thanks, Mike G8NXD

Can we assume you've contacted the manufacturer?

www.telstar-electronics.com

```
From 7396840255176840403
X-Google-Thread: fc2a5,28a3144a154337bc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-
mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Class C amps and saturation (again)
Date: 4 Nov 2006 10:50:14 -0800
Organization: http://groups.google.com
Lines: 54
Message-ID: <1162666214.306314.66710@h48g2000cwc.googlegroups.com>
References: <1162665254.828375.182050@k70g2000cwa.googlegroups.com>
NNTP-Posting-Host: 71.112.170.245
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162666219 21258 127.0.0.1 (4 Nov 2006 18:50:19 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 4 Nov 2006 18:50:19 +0000 (UTC)
In-Reply-To: <1162665254.828375.182050@k70g2000cwa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.5) Gecko/
```

20060127 Netscape/8.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h48g2000cwc.googlegroups.com; posting-host=71.112.170.245;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7661

bill.meara@gmail.com wrote:
> Back in July I wrote:
>
> I'm reading David Rutledge's excellent "The Electronics of Radio."
> In Chapter 10 -- Power Amplifiers, he discusses Class C amps and says,
> "In addition, if we drive the transistor clear to saturation, using the
>
> transistor as a switch, the dissipated power can be greatly reduced,
> because the saturation voltage is low. This is Class C
> amplification..."
> I'd always throught that in Class C, while you'd operate the device so
> that it was cutoff during most of the cycle, but not saturated.
> Is this just a different definition of Class C?
> I checked back with SSDRA and EMRFD, and didn't see anything about
> driving Class C amps into saturation?
> What says the group? Do we saturate in Class C or not?
> ---
> I've been thinking about this some more. The 1980 ARRL handbook points
> out that "Solid State power amplifiers should be operated just below
> their saturation points for best efficiency and stability." Also, the
> formula that we use to determine load resistance (Rl=Vcc^2/2Po) implies
> that we are looking for a combination of Vcc, Load resistance and power
> out that will prevent saturation.
> And wouldn't we end up with far lower harmonic content if we only clip
> one side of the wave form (at cutoff) instead of both sides (cutoff and
> saturation)?
>
> I know there are more exotic modes beyond C, but for plain old ordinary
> ham radio applications, don't we normally avoid saturation in Class C
> amps?
>
> Also, what about this business of having the efficiency improve through
> saturation "because the saturation voltage is low"   Could that be
> right?   If you put a voltage across a conductor and generate a large
> current, you can't sit back and say "Great! Power consumption across
> the conductor is low because the voltage drop across it is now
> minimal!"
>
> 73 from London
> Bill M0HBR N2CQR CU2JL
> http://www.gadgeteer.us

The definition I've always heard for class C is that conduction of the
active device is for less than half of each cycle. Nothing is said
about saturation.

Of course, if the active device conducts when there is appreciable voltage across it, it will dissipate more power than if it were conducting the same current at lower voltage.

Cheers,
Tom

```
From 1935223106689711597
X-Google-Thread: fc2a5,d189aa25ea3d4393
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-
mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Selecting toroids for HF use...
Date: 4 Nov 2006 10:53:13 -0800
Organization: http://groups.google.com
Lines: 17
Message-ID: <1162666393.251369.270220@b28g2000cwb.googlegroups.com>
References: <1162662855.345115.209880@h48g2000cwc.googlegroups.com>
NNTP-Posting-Host: 71.112.170.245
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162666398 21644 127.0.0.1 (4 Nov 2006 18:53:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 4 Nov 2006 18:53:18 +0000 (UTC)
In-Reply-To: <1162662855.345115.209880@h48g2000cwc.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.5) Gecko/
20060127 Netscape/8.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=71.112.170.245;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7662
```

tictac1 wrote:
> Hi,
>
> I need some toroidal cores(powdered iron or ferrite) for general HF
> use. So i guess i will be looking for cores in 3-30~ MHz range. I have
> access to Philips toroidal cores in where i live and i need your advice
> to find the suitable one. Waiting for your answers...
>
> Thanks...

Suitable for WHAT? You say you "need" them, but what exactly causes that need? What are you trying to accomplish?

Cheers,

Tom

From 8952590732964495951
X-Google-Thread: 108122,ba985c200c6550c3
X-Google-Thread: fc2a5,ba985c200c6550c3
X-Google-Thread: 107ada,ba985c200c6550c3
X-Google-Thread: 10bf43,ba985c200c6550c3
X-Google-Attributes: gid108122,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news1.google.com!news.maxwell.syr.edu!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: Anyone written the FCC and told them to keep the code requirement?
Date: Sat, 04 Nov 2006 14:05:46 -0500
Message-ID: <34ppk2hk8sudht712ap04fitgaa70gd8m1@4ax.com>
References: <hZQ2h.1647$L6.319@newsread3.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 10
NNTP-Posting-Date: 04 Nov 2006 18:10:44 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.equipment:6852
rec.radio.amateur.homebrew:7663 rec.radio.amateur.misc:25505
rec.radio.amateur.policy:52897

On Sat, 04 Nov 2006 00:16:13 GMT, Slow Code <my.mail@no.spam> wrote:

>
>
>If you have, Thanks.
>
>73
>de Slow Code
nope not here
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -5844036016600766185
X-Google-Thread: fc2a5,d189aa25ea3d4393
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!news.glorb.com!sn-xt-

sjc-05!sn-xt-sjc-01!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Selecting toroids for HF use...
Date: Sat, 04 Nov 2006 11:19:16 -0800
Organization: EZNEC Antenna Software
Message-ID: <12kpptmsmqm9k15@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <1162662855.345115.209880@h48g2000cwc.googlegroups.com>
In-Reply-To: <1162662855.345115.209880@h48g2000cwc.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 38
Xref: g2news2.google.com rec.radio.amateur.homebrew:7664

There is no such thing as a single core type suitable for "general" HF use, because the required core material depends strongly on just what the use is.

You can, however, satisfy a large number of requirements with a few core types. Micrometals type 2 or 6 powdered iron cores are suitable for most high-Q inductors. I consistently measure higher Q with type 6 cores, at least when sparsely wound, but type 2 is convenient for higher inductances due to its higher permeability. I didn't know Philips made powdered iron cores -- if they do, you should check their web site and Micrometals' to find an approximate equivalent. The choice of core material for RF chokes and broadband transformers depends on how much power and how much DC current is involved. For low power applications where there isn't a substantial amount of DC current, Fair-rite type 43 ferrite material is a good choice for those applications. If you need more impedance, for example at lower frequency or in higher impedance circuits, one of the 70 series materials would be better. Again, look at the respective web sites to find an approximate equivalent material from another manufacturer.

The sizes of cores you'll need depends on the inductance (for high-Q inductors) or impedance (for RF chokes or broadband transformers) range, power handling capability, and DC flux level you need to deal with. For low power, low flux applications, (F)T-37 and -50 are popular sizes. These are 0.37 and 0.50 inch OD respectively.

Roy Lewallen, W7EL

tictac1 wrote:
> Hi,
>
> I need some toroidal cores(powdered iron or ferrite) for general HF
> use. So i guess i will be looking for cores in 3-30~ MHz range. I have
> access to Philips toroidal cores in where i live and i need your advice
> to find the suitable one. Waiting for your answers...

```
>
> Thanks...
>


From -1437783417111326038
X-Google-Thread: fc2a5,28a3144a154337bc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 04 Nov 2006 13:29:39 -0600
Date: Sat, 04 Nov 2006 11:29:49 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Class C amps and saturation (again)
References: <1162665254.828375.182050@k70g2000cwa.googlegroups.com>
In-Reply-To: <1162665254.828375.182050@k70g2000cwa.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Z9qdnZ1JW9m-d9HYnZ2dnUVZ_s2dnZ2d@web-ster.com>
Lines: 79
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X-Trace: sv3-ToHggKVKGltKX0v3kSUbT+/9fN+P4j+5arZ5ke+zdBzCVkIpigIYaPL/
8SsX0+SzuxHguJP8+hoGCMc!
jivLHu1wmoJOE9rcQMx4iVgmfnBqm55qFTndw3eQtSCvQeIzQEOBDnasA4Wtf2BTH1cjIt/xJV0m!
7IbivBOA815QG2b6
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7665

bill.meara@gmail.com wrote:
> Back in July I wrote:
>
> I'm reading David Rutledge's excellent "The Electronics of Radio."
> In Chapter 10 -- Power Amplifiers, he discusses Class C amps and says,
> "In addition, if we drive the transistor clear to saturation, using the
>
> transistor as a switch, the dissipated power can be greatly reduced,
> because the saturation voltage is low. This is Class C
> amplification..."
> I'd always throught that in Class C, while you'd operate the device so
> that it was cutoff during most of the cycle, but not saturated.
> Is this just a different definition of Class C?
```

Look at it this way: If you had to drive the device into saturation before it was class C, then there could have been no class C tube amplifiers -- yet I see schematics for them all over my older amateur radio literature.

The definition that _I_ was taught was all about conduction angle.

> I checked back with SSDRA and EMRFD, and didn't see anything about
> driving Class C amps into saturation?
> What says the group? Do we saturate in Class C or not?
> --
> I've been thinking about this some more. The 1980 ARRL handbook points out that "Solid State power amplifiers should be operated just below their saturation points for best efficiency and stability." Also, the formula that we use to determine load resistance (Rl=Vcc^2/2Po) implies that we are looking for a combination of Vcc, Load resistance and power out that will prevent saturation.
> And wouldn't we end up with far lower harmonic content if we only clip one side of the wave form (at cutoff) instead of both sides (cutoff and saturation)?
>
> I know there are more exotic modes beyond C, but for plain old ordinary ham radio applications, don't we normally avoid saturation in Class C amps?

The "saturation" in bipolar transistor terminology means "current saturation", but it could just as well mean "carrier saturation". When the transistor is saturated the base region is stuffed full of carriers (holes, for an NPN transistor). It takes a while for those carriers to go away, during which the transistor stays on. This is a very nonlinear effect, and can be very slow. The old 74Sxx series logic put a schottkey diode from collector to base on the transistors to keep them out of saturation, and sped them up considerably.

So yes, with an otherwise ordinary bipolar transistor you probably want to avoid saturation.

>
> Also, what about this business of having the efficiency improve through saturation "because the saturation voltage is low" Could that be right? If you put a voltage across a conductor and generate a large current, you can't sit back and say "Great! Power consumption across the conductor is low because the voltage drop across it is now minimal!"

That's the whole point of the class D amplifier (AKA switching amp, or switching supply) at baseband, and the class E amplifier at RF -- you arrange the circuit so the transistor is either on with low voltage across it, or off with no current, with as little time in between as you can manage.

But it's not class C, or at least it isn't _just_ class C.

I don't think you could manage a class E amplifier with bipolar transistors at RF frequencies, although I'm willing to be surprised.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

From 3097625204056212963
X-Google-Thread: 108122,ba985c200c6550c3
X-Google-Thread: fc2a5,ba985c200c6550c3
X-Google-Thread: 107ada,ba985c200c6550c3
X-Google-Thread: 10bf43,ba985c200c6550c3
X-Google-Attributes: gid108122,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 04 Nov 2006 13:30:59 -0600
Date: Sat, 04 Nov 2006 11:31:10 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: Anyone written the FCC and told them to keep the code requirement?
References: <hZQ2h.1647$L6.319@newsread3.news.pas.earthlink.net>
In-Reply-To: <hZQ2h.1647$L6.319@newsread3.news.pas.earthlink.net>
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Lines: 20
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DzEG2bFDaMsGFqz3
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.equipment:6853
rec.radio.amateur.homebrew:7666 rec.radio.amateur.misc:25515

rec.radio.amateur.policy:52910

Slow Code wrote:

> If you have, Thanks.
>
> 73
> de Slow Code

Don't forget the requirement to understand the construction, theory and maintenance of spark transmitters.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From -2836289861877556898
X-Google-Thread: fc2a5,d189aa25ea3d4393
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-mail
From: "tictac1" <bggungor@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Selecting toroids for HF use...
Date: 4 Nov 2006 11:39:40 -0800
Organization: http://groups.google.com
Lines: 12
Message-ID: <1162669180.368863.228540@h48g2000cwc.googlegroups.com>
References: <1162662855.345115.209880@h48g2000cwc.googlegroups.com>
   <12kpptmsmqm9k15@corp.supernews.com>
NNTP-Posting-Host: 85.97.79.209
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162669184 28564 127.0.0.1 (4 Nov 2006 19:39:44 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 4 Nov 2006 19:39:44 +0000 (UTC)
In-Reply-To: <12kpptmsmqm9k15@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; tr; rv:1.8.0.7) Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h48g2000cwc.googlegroups.com; posting-host=85.97.79.209;
   posting-account=h96SeQ0AAABpb71GK4GCVx4_l4hGmsTk
Xref: g2news2.google.com rec.radio.amateur.homebrew:7667
```

Thanks for the answers.. I already didn't say that i needed one exact type. They will be used in HF transceiver projects(ie. VFO's, mixers, BPF's and everything). I think that a toroid like T-50-2 would be useful for many applications like those. As i said above i only have access to Philips cores and i can't find a catalog to choose from. I did a search on the net but didn't come accross anything handy. So if any of you have used Philips cores in your applications i would like to know what types do you use and what equivalents are out there for known brands such as Amidon, CWS etc.

Thanks...

```
From -4313262812979178З2
X-Google-Thread: 108122,ba985c200c6550c3
X-Google-Thread: fc2a5,ba985c200c6550c3
X-Google-Thread: 107ada,ba985c200c6550c3
X-Google-Thread: 10bf43,ba985c200c6550c3
X-Google-Attributes: gid108122,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller2.gnilink.net!gnilink.net!trndny08.POSTED!832b2370!not-for-mail
From: "James Philopena" <jphilopena@verizon.net>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
radio.amateur.policy
References: <hZQ2h.1647$L6.319@newsread3.news.pas.earthlink.net>
Subject: Re: Anyone written the FCC and told them to keep the code requirement?
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2869
X-RFC2646: Format=Flowed; Original
Message-ID: <AL73h.1005$sw6.573@trndny08>
Date: Sat, 04 Nov 2006 21:38:40 GMT
NNTP-Posting-Host: 72.64.2.61
X-Complaints-To: abuse@verizon.net
X-Trace: trndny08 1162676320 72.64.2.61 (Sat, 04 Nov 2006 16:38:40 EST)
NNTP-Posting-Date: Sat, 04 Nov 2006 16:38:40 EST
Xref: g2news2.google.com rec.radio.amateur.equipment:6854
rec.radio.amateur.homebrew:7668 rec.radio.amateur.misc:25521
rec.radio.amateur.policy:52922
```

"Slow Code" <my.mail@no.spam> wrote in message
news:hZQ2h.1647$L6.319@newsread3.news.pas.earthlink.net...

>

>

> If you have, Thanks.

>
> 73
> de Slow Code

No, but I asked them to start testing on PSK, RTTY, APRS, Computer Interface Logic and Theory and a half dozen other digital points. Does that help?

KB1NXE

From -7365680531742467892
X-Google-Thread: fc2a5,be477d150f7a896a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!trndny02.POSTED!832b2370!not-for-mail
From: "James Philopena" <jphilopena@verizon.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1161903099.814059@newsreg.cos.agilent.com>
Subject: Re: Anderson Powerpoles on Front Panel
Lines: 32
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2869
X-RFC2646: Format=Flowed; Original
Message-ID: <fQ73h.2019$qG.1869@trndny02>
Date: Sat, 04 Nov 2006 21:43:39 GMT
NNTP-Posting-Host: 72.64.2.61
X-Complaints-To: abuse@verizon.net
X-Trace: trndny02 1162676619 72.64.2.61 (Sat, 04 Nov 2006 16:43:39 EST)
NNTP-Posting-Date: Sat, 04 Nov 2006 16:43:39 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:7669

Cut the hole in the panel. In the hole where the roll pin goes to join them together, punch out the roll pin and using a right angle (small aluminum angle stock works good) bracket on the panel rear and screw through the rollpin hole. Another screw through the panel. Viola...

KB1NXE

"Al Lorona" <al_lorona@agilent.com> wrote in message
news:1161903099.814059@newsreg.cos.agilent.com...
> Hi, Everybody,
>
> I am interested to hear how you have solved the problem of panel-mounting
> Anderson Powerpole connectors.
>

> I have already ruled out the Anderson 4-pole "Powerpole Pak" connectors.
> Too
> bulky. Don't need four. Just need two. I know about these. I am interested
> in other solutions.
>
> Thanks very much.
>
> Regards,
>
> Al W6LX
>
>
>
>
>

From -1909872136361691957
X-Google-Thread: fc2a5,d189aa25ea3d4393
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-mail
From: sailtamarack@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Selecting toroids for HF use...
Date: 4 Nov 2006 13:59:37 -0800
Organization: http://groups.google.com
Lines: 28
Message-ID: <1162677576.987403.24830@e3g2000cwe.googlegroups.com>
References: <1162662855.345115.209880@h48g2000cwc.googlegroups.com>
   <12kpptmsmqm9k15@corp.supernews.com>
   <1162669180.368863.228540@h48g2000cwc.googlegroups.com>
NNTP-Posting-Host: 70.66.131.246
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162677580 16739 127.0.0.1 (4 Nov 2006 21:59:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 4 Nov 2006 21:59:40 +0000 (UTC)
In-Reply-To: <1162669180.368863.228540@h48g2000cwc.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=70.66.131.246;
   posting-account=gXcV3gwAAACKhdV_aZ9TbpV32cSAnBGe
Xref: g2news2.google.com rec.radio.amateur.homebrew:7670

The Philips cores that you are referring to were probably manufactured
by Ferroxcube (Philips has sold the company to Yaego). You can find
data and a handbook at http://www.ferroxcube.com/

If you want a useful ham program (free) for designing with Ferroxcube,
Amidon, Epcos and air cores download "mini-RC Calculator" from
http://www.dl5swb.de/html/software_for_amateur_radio.htm

Fair-rite (ferrite manufacturer) has a distributor in your country -
Turkey and they can be contacted at http://www.aktif-neser.com/

Roger

tictac1 wrote:
> Thanks for the answers.. I already didn't say that i needed one exact
> type. They will be used in HF transceiver projects(ie. VFO's, mixers,
> BPF's and everything). I think that a toroid like T-50-2 would be
> useful for many applications like those. As i said above i only have
> access to Philips cores and i can't find a catalog to choose from. I
> did a search on the net but didn't come accross anything handy. So if
> any of you have used Philips cores in your applications i would like to
> know what types do you use and what equivalents are out there for known
> brands such as Amidon, CWS etc.
>
> Thanks...

From -2020654026670334994
X-Google-Thread: fc2a5,28a3144a154337bc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!newsfeed0.kamp.net!newsfeed.kamp.net!newsfeed.freenet.de!border2.nntp.ams.giganews.com!nntp.giganews.com!sn-xt-ams-06!sn-xt-ams-04!sn-ams!sn-feed-ams-03!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Class C amps and saturation (again)
Date: Sat, 04 Nov 2006 14:05:39 -0800
Organization: EZNEC Antenna Software
Message-ID: <12kq3llsge9akfb@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <1162665254.828375.182050@k70g2000cwa.googlegroups.com> <Z9qdnZ1JW9m-d9HYnZ2dnUVZ_s2dnZ2d@web-ster.com>
In-Reply-To: <Z9qdnZ1JW9m-d9HYnZ2dnUVZ_s2dnZ2d@web-ster.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 20
Xref: g2news2.google.com rec.radio.amateur.homebrew:7671

Tim Wescott wrote:

> . . .
> The "saturation" in bipolar transistor terminology means "current
> saturation", but it could just as well mean "carrier saturation". When
> the transistor is saturated the base region is stuffed full of carriers
> (holes, for an NPN transistor). It takes a while for those carriers to
> go away, during which the transistor stays on. This is a very nonlinear
> effect, and can be very slow. The old 74Sxx series logic put a
> schottkey diode from collector to base on the transistors to keep them
> out of saturation, and sped them up considerably.

The very slow saturation recovery you see in saturated switch applications (unless using a gold-doped transistor) is largely absent in typical RF power applications. The reason is the bipolar drive usually employed -- there's typically a large amount of negative base current available to suck the stored charge out of the base region in a hurry.

> . . .

Roy Lewallen, W7EL

From -8060002830251056661
X-Google-Thread: fc2a5,3452cca77b9dfec8,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Subject: FS: Variable Capacitors
From: "Eugene Rippen" <soundval@foothill.net>
Date: Sat, 4 Nov 2006 15:17:26 -0800
Message-ID: <1162682330_16203@sp6iad.superfeed.net>
Lines: 34
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-out.nntp.be!
sp6iad.superfeed.net!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Report: Please report illegal or inappropriate use to <abuse@newsfeeds.com>.
Forward a copy of ALL headers INCLUDING the body. (DO NOT SEND ATTACHMENTS)
X-Comments2: IMPORTANT: Newsfeeds.com does not condone,support,nor tolerate spam
or any illegal or copyrighted postings.
X-Comments: This message was posted through Newsfeeds.com
Organization: Superfeed.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:7672

2 each   Cardwell 50 x 300 mmfd 3/16" between opposing plates.
14.5" from front end of shaft to rearmost.
The other dimensions are 6" x 4"
Neither looks used.
Shipping weight is m10 pounds.
One has had the insulating strip on one lower side repaired.

(This strip is not load bearing - has terminals on it)
Price for the repaired one $25 plus shipping from near Sacramento, CA
Price for the other is $30   plus shipping from near Sacramento,CA
http://www.muchstuff.com/pics/VARCAP/VARCAP-1.JPG
http://www.muchstuff.com/pics/VARCAP/VARCAP-2.JPG
****

One National Dual variable capacitor. 10 to 50 mmfd each section.
Common rotor. 3/8 inch between opposing plates.
With ceramic flex coupler on end of shaft.
13" from end of shaft to rearmost. Other dimensions 5" x 8"
Looks unused.
I don't know what happened to the pictures. I will try to take pictures again tomorrow, but please don't wait on that.
$40 plus shipping from near Sacramento, CA.

PayPal, or,
Credit cards through PayPal,
or, Checks to me

Eugene Rippen
105 Donnington Ave.
Auburn, CA 95603

----== Posted via Newsfeeds.Com - Unlimited-Unrestricted-Secure Usenet News==----
http://www.newsfeeds.com The #1 Newsgroup Service in the World! 120,000+ Newsgroups
----= East and West-Coast Server Farms - Total Privacy via Encryption =----

From -3059790932923077719
X-Google-Thread: fc2a5,9aeccfe81f531c8c,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Subject: FS: QSTs
From: "Eugene Rippen" <soundval@foothill.net>
Date: Sat, 4 Nov 2006 15:34:43 -0800
Message-ID: <1162683363_16209@sp6iad.superfeed.net>
Lines: 32
Path: g2news2.google.com!news4.google.com!news.glorb.com!feed.cgocable.net!news-out.newsgroups.com!sp6iad.superfeed.net!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Report: Please report illegal or inappropriate use to <abuse@newsfeeds.com>.

Forward a copy of ALL headers INCLUDING the body. (DO NOT SEND ATTACHMENTS)
X-Comments2: IMPORTANT: Newsfeeds.com does not condone,support,nor tolerate spam or any illegal or copyrighted postings.
X-Comments: This message was posted through Newsfeeds.com
Organization: Superfeed.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:7673

These will be shipped by USPS at the Bound Printed Matter rate, paid by buyer.
These are in good to very good condition, unless stated otherwise.
The units listed are the groupings by which they will be sold.
I may not reply to requests for parts of the groups.
When you first order please tell me your address with zip, so I can tell you what the shipping will cost.
I'm done for the night. I will pick up responses tomorrow

YEAR	ISSUES	EXCEPTIONS	PRICE	Shipping weight
33	all		$15	6 lbs
34	all		15	7
35	all		15	7
36	all		15	7
38	all		16	7
40	all		16	9
41	all		16	7
41	all		16	7
42	only Jan, Feb, Mar, Apr, July		6	3
45	all	except Aug. Sept.	14	6
46	all	except Aug, Sep, Oct, Nov.	8	6
47	all	complete, spines very poor	5	9
47	all		13	9
51	all		13	9
53	all		13	8
57	all		16	10
58	all	except Mar.	14	10
59	all		16	11

----== Posted via Newsfeeds.Com - Unlimited-Unrestricted-Secure Usenet News==----
http://www.newsfeeds.com The #1 Newsgroup Service in the World! 120,000+ Newsgroups
----= East and West-Coast Server Farms - Total Privacy via Encryption =----

From -7267620263227356523
X-Google-Thread: 108122,ba985c200c6550c3
X-Google-Thread: fc2a5,ba985c200c6550c3
X-Google-Thread: 107ada,ba985c200c6550c3
X-Google-Thread: 10bf43,ba985c200c6550c3
X-Google-Attributes: gid108122,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit

```
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
radio.amateur.policy
Subject: Re: Anyone written the FCC and told them to keep the code requirement?
From: Slow Code <my.mail@no.spam>
References: <hZQ2h.1647$L6.319@newsread3.news.pas.earthlink.net>
<AL73h.1005$sw6.573@trndny08>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 23
Message-ID: <jO93h.2460$0r.1804@newsread1.news.pas.earthlink.net>
Date: Sat, 04 Nov 2006 23:58:07 GMT
NNTP-Posting-Host: 4.254.225.249
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1162684687 4.254.225.249 (Sat, 04 Nov
2006 15:58:07 PST)
NNTP-Posting-Date: Sat, 04 Nov 2006 15:58:07 PST
Xref: g2news2.google.com rec.radio.amateur.equipment:6856
rec.radio.amateur.homebrew:7674 rec.radio.amateur.misc:25524
rec.radio.amateur.policy:52935

"James Philopena" <jphilopena@verizon.net> wrote in
news:AL73h.1005$sw6.573@trndny08:

>
> "Slow Code" <my.mail@no.spam> wrote in message
> news:hZQ2h.1647$L6.319@newsread3.news.pas.earthlink.net...
>>
>>
>> If you have, Thanks.
>>
>> 73
>> de Slow Code
>
> No, but I asked them to start testing on PSK, RTTY, APRS, Computer
> Interface Logic and Theory and a half dozen other digital points.  Does
> that help?
>
> KB1NXE


I like it.

SC


From 635825588823623908
X-Google-Thread: fcc6e,7dc8762e194b2e61,start
X-Google-Thread: fc2a5,7dc8762e194b2e61,start
X-Google-Thread: 10bf43,7dc8762e194b2e61,start
```

```
X-Google-Thread: fa029,7dc8762e194b2e61,start
X-Google-Thread: 1109af,7dc8762e194b2e61,start
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Common courtesy
From: Slow Code <my.mail@no.spam>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 5
Message-ID: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
Date: Sat, 04 Nov 2006 23:58:09 GMT
NNTP-Posting-Host: 4.254.225.249
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1162684689 4.254.225.249 (Sat, 04 Nov
2006 15:58:09 PST)
NNTP-Posting-Date: Sat, 04 Nov 2006 15:58:09 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:21029
rec.radio.amateur.homebrew:7675 rec.radio.amateur.policy:52936
rec.radio.scanner:7568 rec.radio.swap:9478
```

If all the seats are taken at a club meeting and a 20wpm code tested Extra is standing, a no-code ham should give their seat to the Extra and sit on the floor. After saluting of course.

SC

```
From 5790906580221736245
X-Google-Thread: fc2a5,ad7b0e8ce347f7d2,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Subject: TS:  Tubes
From: "Eugene Rippen" <soundval@foothill.net>
Date: Sat, 4 Nov 2006 16:42:00 -0800
Message-ID: <1162687400_16426@sp6iad.superfeed.net>
Lines: 34
Path: g2news2.google.com!news3.google.com!news.glorb.com!wn13feed!
worldnet.att.net!204.71.34.3!newsfeed.cwix.com!news-out.superfeed.net!
sp6iad.superfeed.net!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Report:  Please report illegal or inappropriate use to <abuse@newsfeeds.com>.
Forward a copy of ALL headers INCLUDING the body. (DO NOT SEND ATTACHMENTS)
```

X-Comments2: IMPORTANT: Newsfeeds.com does not condone,support,nor tolerate spam or any illegal or copyrighted postings.
X-Comments: This message was posted through Newsfeeds.com
Organization: Superfeed.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:7676

This batch of tubes consists of mostly old home radio type, with a few audio and transmitting types.

PRICES ARE MOSTLY BETWEEN 65% and 75% OFF OF INTERNET TUBE DEALERS

Shipping in USA is a flat $4.00 for whatever amount shipped at one time.
Payment by PayPal, or Credit cards through PayPal, or checks to me.
Any shipments outside of USA will be paid through PayPal only.
I will only ship big orders outside of USA.   That's big in money.

See them at:
http://www.muchstuff.com/1024tfs.html

The fractions indicate how they tested on the tube checker. The numerator is the scale reading, the denominator is the amount on the chart. The checkers were either my Hickok 6000A or my TV7/U. The tubes may or may not have boxes. If they are new, then they are in boxes.
N = new. U = used.   Tip = glass comes with a tip on top.
BB = brass base. A round glass is like a tennis ball is called ball.
A glass that is larger at the top (like a 280) than at the base is called ballon.

Please email your orders including the full description, that is tube type followed
by the TCxxx number which tells me where to find it.
Please, I am not going to pull these tubes to look for more descriptions; like getter shapes and plate colors.

Eugene Rippen
105 Donnington Ave.
Auburn, CA 95603

----== Posted via Newsfeeds.Com - Unlimited-Unrestricted-Secure Usenet News==----
http://www.newsfeeds.com The #1 Newsgroup Service in the World! 120,000+ Newsgroups
----= East and West-Coast Server Farms - Total Privacy via Encryption =----

From 6693909862302387900
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61

```
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 04 Nov 2006 19:19:07 -0600
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
From: Ben Jackson <ben@ben.com>
Subject: Re: Common courtesy
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
Message-ID: <slrnekqf0b.1ato.ben@saturn.home.ben.com>
User-Agent: slrn/0.9.8.0 (FreeBSD)
Date: Sat, 04 Nov 2006 19:19:07 -0600
Lines: 12
NNTP-Posting-Host: 67.189.64.253
X-Trace:
sv3-9P4aSwjQGt1wz7wLrSTf1KkZ81nTj5NiF2Ecuy6hcKcokl07KSLfTw+26dluJGZuG6YrkJtm8VjG8Z
U!GuatuTy43ykkEvW7+kAZe5ChjBybDGY5AfoUwczADr3kyHVcaz2VCWaKI2RJgh7v1R/CDpQUHTvn!
5wSa
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.antenna:21032
rec.radio.amateur.homebrew:7677 rec.radio.amateur.policy:52950
rec.radio.scanner:7571 rec.radio.swap:9482

On 2006-11-04, Slow Code <my.mail@no.spam> wrote:
> If all the seats are taken at a club meeting and a 20wpm code tested Extra
> is standing, a no-code ham should give their seat to the Extra and sit
> on the floor.  After saluting of course.

Thanks to guys like you, there are always plenty of free seats at
club meetings.

--
Ben Jackson AD7GD
<ben@ben.com>
http://www.ben.com/


From -3759570120411575613
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-mail
From: bill_newport.4land@yahoo.com
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
Date: 4 Nov 2006 17:38:02 -0800
Organization: http://groups.google.com
Lines: 17
Message-ID: <1162690682.573639.184290@k70g2000cwa.googlegroups.com>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
   <slrnekqf0b.1ato.ben@saturn.home.ben.com>
NNTP-Posting-Host: 4.154.49.180
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162690686 26284 127.0.0.1 (5 Nov 2006 01:38:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 5 Nov 2006 01:38:06 +0000 (UTC)
In-Reply-To: <slrnekqf0b.1ato.ben@saturn.home.ben.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.12)
Gecko/20050915 Firefox/1.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=4.154.49.180;
   posting-account=m1_5MA0AAAC0tmRqa1eKqbcpvqbrmtMr
Xref: g2news2.google.com rec.radio.amateur.antenna:21033
rec.radio.amateur.homebrew:7678 rec.radio.amateur.policy:52951
rec.radio.scanner:7572 rec.radio.swap:9483

Ben Jackson wrote:
> On 2006-11-04, Slow Code <my.mail@no.spam> wrote:
> > If all the seats are taken at a club meeting and a 20wpm code tested Extra
> > is standing, a no-code ham should give their seat to the Extra and sit
> > on the floor. After saluting of course.
>
> Thanks to guys like you, there are always plenty of free seats at
> club meetings.
>

and thanks to guys like you there are always plenty of free blow jobs
at club meetings

> --
> Ben Jackson AD7GD
> <ben@ben.com>
> http://www.ben.com/

From -5153522298225358845
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61

```
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy is somthing our unknown idoit needs to learn
Date: Sat, 04 Nov 2006 20:58:09 -0500
Message-ID: <n8hqk2p9h9k0lu9nr4kfjligs76mkhgcp9@4ax.com>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 9
NNTP-Posting-Date: 05 Nov 2006 01:03:07 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21034
rec.radio.amateur.homebrew:7679 rec.radio.amateur.policy:52956
rec.radio.scanner:7574 rec.radio.swap:9484

On Sat, 04 Nov 2006 23:58:09 GMT, Slow Code <my.mail@no.spam> wrote:

>If all the seats are taken at a club meeting and a 20wpm code tested Extra
>is standing, a no-code ham should give their seat to the Extra and sit
>on the floor.  After saluting of course.
bullshit sc
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From -4516390315351837З
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.alt.net
From: "Titties n Beer" <anon@anon>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
```

Subject: Re: Common courtesy
Date: Sat, 4 Nov 2006 21:59:22 -0500
Organization: Altopia Corp. - Usenet Access - www.altopia.com
Lines: 14
Message-ID: <eg9kb.ojl.17.1@news.alt.net>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Xref: g2news2.google.com rec.radio.amateur.antenna:21036
rec.radio.amateur.homebrew:7680 rec.radio.amateur.policy:52969
rec.radio.scanner:7577 rec.radio.swap:9485

"Slow Code" <my.mail@no.spam> wrote in message
news:lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net...
If all the seats are taken at a club meeting and a 20wpm code tested Extra
is standing, a no-code ham should give their seat to the Extra and sit
on the floor. After saluting of course.

SC

Not only should the No-Coder give up his seat to a superior, he should also
wipe it clean with disinfectant.

From 7352597756704499833
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.maxwell.syr.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesyis l;acking from the many of the extras
Date: Sat, 04 Nov 2006 22:50:37 -0500
Message-ID: <krnqk25a68nbv211dog21g09cajjbd9dd1@4ax.com>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<eg9kb.ojl.17.1@news.alt.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

```
Lines: 16
NNTP-Posting-Date: 05 Nov 2006 02:55:36 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:21037
rec.radio.amateur.homebrew:7681 rec.radio.amateur.policy:52972
rec.radio.scanner:7578 rec.radio.swap:9486

On Sat, 4 Nov 2006 21:59:22 -0500, "Titties n Beer" <anon@anon> wrote:

>
>"Slow Code" <my.mail@no.spam> wrote in message
>news:lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net...
>If all the seats are taken at a club meeting and a 20wpm code tested Extra
>is standing, a no-code ham should give their seat to the Extra and sit
>on the floor.  After saluting of course.
>
>SC
>
>
>Not only should the No-Coder give up his seat to a superior, he should also
>wipe it clean with disinfectant.
as this statement clearly proves
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -7495083892520910558
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!
trndny05.POSTED!0da99462!not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
<1162556859.782446.301680@h48g2000cwc.googlegroups.com>
<1162569647.116221.22280@b28g2000cwb.googlegroups.com>
<3r2nk2lpmk8knidb7uhlpsmajupdukkkou@4ax.com>
<1162591085.500898.182100@h54g2000cwb.googlegroups.com>
Subject: Re: CW to FM Remodulator?
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <oHj3h.1040$C57.131@trndny05>
```

Date: Sun, 05 Nov 2006 11:13:24 GMT
NNTP-Posting-Host: 68.236.47.120
X-Complaints-To: abuse@verizon.net
X-Trace: trndny05 1162725204 68.236.47.120 (Sun, 05 Nov 2006 06:13:24 EST)
NNTP-Posting-Date: Sun, 05 Nov 2006 06:13:24 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:7682

A hard limiter decreases the signal to noise by about 5.6 db, and
that's a mathematical fact...

Andy,

Can you point us to a reference document that explains this "mathematical
fact"?.

Joe
W3JDR

From 6573443386445759566
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f16g2000cwb.googlegroups.com!not-for-mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW to FM Remodulator?
Date: 5 Nov 2006 07:20:17 -0800
Organization: http://groups.google.com
Lines: 72
Message-ID: <1162740017.628783.176870@f16g2000cwb.googlegroups.com>
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
   <1162556859.782446.301680@h48g2000cwc.googlegroups.com>
   <1162569647.116221.22280@b28g2000cwb.googlegroups.com>
   <3r2nk2lpmk8knidb7uhlpsmajupdukkkou@4ax.com>
   <1162591085.500898.182100@h54g2000cwb.googlegroups.com>
   <oHj3h.1040$C57.131@trndny05>
NNTP-Posting-Host: 66.19.117.62
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162740022 24425 127.0.0.1 (5 Nov 2006 15:20:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 5 Nov 2006 15:20:22 +0000 (UTC)
In-Reply-To: <oHj3h.1040$C57.131@trndny05>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f16g2000cwb.googlegroups.com; posting-host=66.19.117.62;

```
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:7683
```

W3JDR wrote:

>
> Can you point us to a reference document that explains this "mathematical
> fact"?.
>
> Joe
> W3JDR

Andy writes:

No. It was about 25 years ago when I was designing the TI2100 FM
Marine
Transceiver for Texas Intruments, which was my last commercial Fm
unit. (Some two meter stuff since then as home projects, tho)

It was info gleaned from several technical papers and I don't for
the
life of me remember which ones. I got a limiter and noise source
and checked it in the lab, at the time, and it seemed consistent.
I don't remember exactly, but I think I combined noise with a
signal and amplified the hell out of it, and then put in an
attenuator to get it back down and measured the S/n in a receiver.
Then I put a limiter in between the amp and the attenuator, and
decreased the atten to get the same level into the receiver, and
measured the S/N again. While I didn't get exactly 5.6 db, I
remember it was close enough to believe that the mathematical
derivation was confirmed (in my mind) and that my measurement
error was probly due to my own imprecision in the experiment..
Anyway, I moved on..... and it settled the question on whether
hard limiting "improves" things.....

Sorry, but that's just one of the numbers that stay with a guy, like
-174 dbm (God's noise) , and 8.5 db (tangential sensitivity), and
10Log(bw), and 3.14..... Heck, I forget my phone number from time
to time, but numbers that I have used for most of my life stay with
me.....

And, being in the profession, I have, at some time or another,
verified
them myself in the lab when the opportunity permitted.. I take that
back.... I have never verified PI....... I hope I haven't been too
gullible..... :>)))

So, I regret not having the mental acuity any more to jot down some
derivations for you. But , if they are not correct, there's a lot of
products

on the market which I built whose development was a wild fluke....

If you want to pursue it yourself, I would suggest a few texts that have guided me... Skolnik's Radar Handbook (the smal one, not the BIG one --- I call it " small Skolnik") has a LOT of tech info that is presented in a level only slightly greater than the ARRL handbook. Also "Principles of FM" -- damn, I don't remember the author.....but how many could there be ? :>)))) I might have it in my workshop. If I run across it I'll post it here.

Well, good luck. Some knowledge can be passed on as a proven fact and one needs look no farther..... like PI, for instance... Other is in conflict with what someone thinks to be "how things work", and doubt is in the air.... No matter -- I was the same way, when I had the energy to pursue it.....

Good on ya' , mate,

Andy W4OAH in Eureka, Texas

```
From -7124516201129306377
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
Date: 5 Nov 2006 07:22:36 -0800
Organization: http://groups.google.com
Lines: 14
Message-ID: <1162740155.991184.191890@m73g2000cwd.googlegroups.com>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
NNTP-Posting-Host: 66.19.117.62
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162740161 24974 127.0.0.1 (5 Nov 2006 15:22:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 5 Nov 2006 15:22:41 +0000 (UTC)
In-Reply-To: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=66.19.117.62;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.antenna:21047
rec.radio.amateur.homebrew:7684 rec.radio.amateur.policy:52985
rec.radio.scanner:7579 rec.radio.swap:9490


Slow Code wrote:
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> is standing, a no-code ham should give their seat to the Extra and sit
> on the floor.  After saluting of course.
>
> SC

Andy writes;

  Yeah.... I got yer salute right here  !!!!

               Andy  W4OAH



From 5713115264336367214
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.vif.com!news.vif.com.POSTED!
not-for-mail
NNTP-Posting-Date: Sun, 05 Nov 2006 09:53:18 -0600
Date: Sun, 05 Nov 2006 10:53:13 -0500
From: =?ISO-8859-1?Q?w=EEthh=CBld_f=D8r_r=CB=E5s=D8=F1s_=D8f_=F1=E5?=
 =?ISO-8859-1?Q?t=EE=D8=F1=E5l_S=CB=C7=FCr=EEty?= <root@127.0.0.1>
Reply-To:  root@127.0.0.1
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, en-jm, en-ca, en-nz, en-au, en-gb, en-tt, en-ph, en-
za, en-zw, en-bz, en-ie
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
References: <l093h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<1162740155.991184.191890@m73g2000cwd.googlegroups.com>
In-Reply-To: <1162740155.991184.191890@m73g2000cwd.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
```

```
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 0645-4, 11/03/2006), Outbound message
X-Antivirus-Status: Clean
Organization: VIF Internet b4
Message-ID: <1162741998.230855@www.vif.com>
Cache-Post-Path: www.vif.com!unknown@ip216-239-87-187.vif.net
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
Lines: 42
NNTP-Posting-Host: 216.239.64.140
X-Trace: sv3-z7qrC9atTicTvB5UoPZLyfB6TTq0x2zyvbuGd9YdnSl44HyghhH8cN88H+/
RahtzCvnzPyH3F/Q2jnT!FNbgQ0t0vO2XR9urg8Ark/
n4JXZ79N5ZXVUkW7nxj1LPWOEe6IctKjAFuQwxDLV4
X-Complaints-To: abuse@vif.com
X-DMCA-Complaints-To: abuse@vif.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.antenna:21048
rec.radio.amateur.homebrew:7685 rec.radio.amateur.policy:52987
rec.radio.scanner:7580 rec.radio.swap:9492

OFF TOPIC YOU FUCKEN MORON!


AndyS wrote:

> Slow Code wrote:
>
>>If all the seats are taken at a club meeting and a 20wpm code tested Extra
>>is standing, a no-code ham should give their seat to the Extra and sit
>>on the floor.  After saluting of course.
>>
>>SC
>
>
> Andy writes;
>
>   Yeah.... I got yer salute right here  !!!!
>
>                Andy  W4OAH
>
>
>
> ---
> avast! Antivirus: Inbound message clean.
> Virus Database (VPS): 0645-4, 11/03/2006
> Tested on: 11/5/2006 10:52:02 AM
> avast! - copyright (c) 1988-2006 ALWIL Software.
> http://www.avast.com
>
>
>
```

---

avast! Antivirus: Outbound message clean.
Virus Database (VPS): 0645-4, 11/03/2006
Tested on: 11/5/2006 10:53:14 AM
avast! - copyright (c) 1988-2006 ALWIL Software.
http://www.avast.com

```
From 3009187046412316935
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.vif.com!news.vif.com.POSTED!
not-for-mail
NNTP-Posting-Date: Sun, 05 Nov 2006 09:58:59 -0600
Date: Sun, 05 Nov 2006 10:58:55 -0500
From: =?ISO-8859-1?Q?w=EEthh=CBld_f=D8r_r=CB=E5s=D8=F1s_=D8f_=F1=E5?=
 =?ISO-8859-1?Q?t=EE=D8=F1=E5l_S=CB=C7=FCr=EEty?= <root@127.0.0.1>
Reply-To:  root@127.0.0.1
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en, en-jm, en-ca, en-nz, en-au, en-gb, en-tt, en-ph, en-
za, en-zw, en-bz, en-ie
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<slrnekqf0b.1ato.ben@saturn.home.ben.com>
In-Reply-To: <slrnekqf0b.1ato.ben@saturn.home.ben.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 0645-4, 11/03/2006), Outbound message
X-Antivirus-Status: Clean
Organization: VIF Internet b4
Message-ID: <1162742339.308132@www.vif.com>
Cache-Post-Path: www.vif.com!unknown@ip216-239-87-187.vif.net
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
Lines: 26
NNTP-Posting-Host: 216.239.64.140
X-Trace: sv3-
XW22dbY536ygxHDpSC6vfWVBy4Z3bRva6G9vHDKVQLvjIsVw1njRcZt3NsXrqi2jBl6wBu9Z1mkeXtu!
```

```
7P6g4oV7m2kzCXo3UcIMY84Ubs2gSpf9dfjMtuh5WBGWb0+xVL1VRQ58NDLwiyyN
X-Complaints-To: abuse@vif.com
X-DMCA-Complaints-To: abuse@vif.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.antenna:21050
rec.radio.amateur.homebrew:7686 rec.radio.amateur.policy:52989
rec.radio.scanner:7582 rec.radio.swap:9493

YOU FUCKEN MORONS! STOP CROSS POSTING YOUR HAMSTER CRAP IN SCANNER
NEWSGROUPS

Ben Jackson wrote:

> On 2006-11-04, Slow Code <my.mail@no.spam> wrote:
>
>>If all the seats are taken at a club meeting and a 20wpm code tested Extra
>>is standing, a no-code ham should give their seat to the Extra and sit
>>on the floor.  After saluting of course.
>
>
> Thanks to guys like you, there are always plenty of free seats at
> club meetings.
>



---
avast! Antivirus: Outbound message clean.
Virus Database (VPS): 0645-4, 11/03/2006
Tested on: 11/5/2006 10:58:55 AM
avast! - copyright (c) 1988-2006 ALWIL Software.
http://www.avast.com






From -5952568096850051568
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller2.gnilink.net!gnilink.net!trndny07.POSTED!0da99462!not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
<1162556859.782446.301680@h48g2000cwc.googlegroups.com>
<1162569647.116221.22280@b28g2000cwb.googlegroups.com>
<3r2nk2lpmk8knidb7uhlpsmajupdukkkou@4ax.com>
```

<1162591085.500898.182100@h54g2000cwb.googlegroups.com>
<oHj3h.1040$C57.131@trndny05>
<1162740017.628783.176870@f16g2000cwb.googlegroups.com>
Subject: Re: CW to FM Remodulator?
Lines: 90
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <UUo3h.2525$qJ6.2375@trndny07>
Date: Sun, 05 Nov 2006 17:09:08 GMT
NNTP-Posting-Host: 68.236.47.120
X-Complaints-To: abuse@verizon.net
X-Trace: trndny07 1162746548 68.236.47.120 (Sun, 05 Nov 2006 12:09:08 EST)
NNTP-Posting-Date: Sun, 05 Nov 2006 12:09:08 EST
Xref: g2news2.google.com rec.radio.amateur.homebrew:7687

So it's not a "mathematical fact" in the sense that any of us can look it up
and see how it was derived, it's your recollection of something you heard
and vaguely remember convincing yourself it could be true, right?

While we're at it, what's the significance of your reference to "8.5 db (
tangential sensitivity)"?

Joe
W3JDR

"AndyS" <andysharpe@juno.com> wrote in message
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>
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>
>>
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>
> No. It was about 25 years ago when I was designing the TI2100 FM
> Marine
> Transceiver for Texas Intruments, which was my last commercial Fm
> unit. (Some two meter stuff since then as home projects, tho)
>
>   It was info gleaned from several technical papers and I don't for
> the

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> and checked it in the lab, at the time, and it seemed consistent.
>   I don't remember exactly, but I think I combined noise with a
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>
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>   Andy W4OAH in Eureka, Texas
>

From 8891537842126788066
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: "William E. Sabin" <w.sabin@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
<1162556859.782446.301680@h48g2000cwc.googlegroups.com>
<1162569647.116221.22280@b28g2000cwb.googlegroups.com>
<3r2nk2lpmk8knidb7uhlpsmajupdukkkou@4ax.com>
<1162591085.500898.182100@h54g2000cwb.googlegroups.com>
<oHj3h.1040$C57.131@trndny05>
<1162740017.628783.176870@f16g2000cwb.googlegroups.com>
<UUo3h.2525$qJ6.2375@trndny07>
Subject: Re: CW to FM Remodulator?
Lines: 107
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <FKp3h.1051803$084.991392@attbi_s22>
NNTP-Posting-Host: 12.217.178.216
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1162749989 12.217.178.216 (Sun, 05 Nov 2006 18:06:29 GMT)
NNTP-Posting-Date: Sun, 05 Nov 2006 18:06:29 GMT
Organization: AT&T ASP.att.net
Date: Sun, 05 Nov 2006 18:06:29 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7688

Agilent App Note says:

Tangential sensitivity is the lowest input signal power level for which the detector will have an 8 dB signal-to-noise ratio at the output of a test video amplifier.

http://www.home.agilent.com/upload/cmc_upload/All/DetectorOverview.pdf

Bill W0IYH

"W3JDR" <joe@roccis.com> wrote in message
news:UUo3h.2525$qJ6.2375@trndny07...
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>
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>
>
>
>
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>> attenuator to get it back down and measured the S/n in a receiver.
>> Then I put a limiter in between the amp and the attenuator, and
>> decreased the atten to get the same level into the receiver, and
>> measured the S/N again. While I didn't get exactly 5.6 db, I
>> remember it was close enough to believe that the mathematical
>> derivation was confirmed (in my mind) and that my measurement
>> error was probly due to my own imprecision in the experiment..
>> Anyway, I moved on..... and it settled the question on whether
>> hard limiting "improves" things.....
>>
>>
>>
>>   Sorry, but that's just one of the numbers that stay with a guy, like
>> -174 dbm (God's noise) , and 8.5 db (tangential sensitivity), and
>> 10Log(bw), and 3.14..... Heck, I forget my phone number from time

```
>> to time, but numbers that I have used for most of my life stay with
>> me.....
>>
>>   And, being in the profession, I have, at some time or another,
>> verified
>> them myself in the lab when the opportunity permitted.. I take that
>> back.... I have never verified PI.......  I hope I haven't been too
>> gullible..... :>)))
>>
>>  So, I regret not having the mental acuity any more to jot down some
>> derivations for you. But , if they are not correct, there's a lot of
>> products
>> on the market  which I built whose development was a wild fluke....
>>
>>   If you want to pursue it yourself, I would suggest a few texts that
>> have guided me...  Skolnik's Radar Handbook  ( the smal one, not
>> the BIG one --- I call it " small Skolnik"   ) has a LOT of tech info
>> that
>> is presented in a level only slightly greater than the ARRL handbook.
>> Also "Principles of FM" -- damn, I don't remember the author.....but
>> how many could there be ?   :>))))   I might have it in my workshop.
>> If I run across it I'll post it here.
>>
>>   Well, good luck.  Some knowledge can be passed on as a proven
>> fact and one needs look  no farther..... like PI, for instance... Other
>> is in conflict with what someone thinks to be  "how things work", and
>> doubt
>> is in the air....  No matter -- I was the same way, when I had the
>> energy to pursue it.....
>>
>>     Good on  ya'  , mate,
>>
>>                Andy W4OAH in Eureka, Texas
>>
>
>




From 7486222430116987338
X-Google-Thread: fc2a5,28a3144a154337bc
X-Google-Thread: 106d41,981e3a27d52fbe4d,start
X-Google-Attributes: gidfc2a5,gid106d41,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-
mail
From: "Telstar Electronics" <briangriffey@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb
Subject: Re: Class C amps and saturation (again)
Date: 5 Nov 2006 10:26:11 -0800
Organization: http://groups.google.com
Lines: 50
```

```
Message-ID: <1162751171.421981.27940@e3g2000cwe.googlegroups.com>
References: <1162665254.828375.182050@k70g2000cwa.googlegroups.com>
NNTP-Posting-Host: 75.3.113.177
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162751176 1055 127.0.0.1 (5 Nov 2006 18:26:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 5 Nov 2006 18:26:16 +0000 (UTC)
In-Reply-To: <1162665254.828375.182050@k70g2000cwa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=75.3.113.177;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news2.google.com rec.radio.amateur.homebrew:7689 rec.radio.cb:21753
```

bill.meara@gmail.com wrote:
> Back in July I wrote:
>
> I'm reading David Rutledge's excellent "The Electronics of Radio."
> In Chapter 10 -- Power Amplifiers, he discusses Class C amps and says,
> "In addition, if we drive the transistor clear to saturation, using the
>
> transistor as a switch, the dissipated power can be greatly reduced,
> because the saturation voltage is low. This is Class C
> amplification..."
> I'd always throught that in Class C, while you'd operate the device so
> that it was cutoff during most of the cycle, but not saturated.
> Is this just a different definition of Class C?
> I checked back with SSDRA and EMRFD, and didn't see anything about
> driving Class C amps into saturation?
> What says the group? Do we saturate in Class C or not?
> ---
> I've been thinking about this some more. The 1980 ARRL handbook points
> out that "Solid State power amplifiers should be operated just below
> their saturation points for best efficiency and stability." Also, the
> formula that we use to determine load resistance (Rl=Vcc^2/2Po) implies
> that we are looking for a combination of Vcc, Load resistance and power
> out that will prevent saturation.
> And wouldn't we end up with far lower harmonic content if we only clip
> one side of the wave form (at cutoff) instead of both sides (cutoff and
> saturation)?
>
> I know there are more exotic modes beyond C, but for plain old ordinary
> ham radio applications, don't we normally avoid saturation in Class C
> amps?
>
> Also, what about this business of having the efficiency improve through
> saturation "because the saturation voltage is low"   Could that be
> right?   If you put a voltage across a conductor and generate a large
> current, you can't sit back and say "Great! Power consumption across
> the conductor is low because the voltage drop across it is now

> minimal!"
>
> 73 from London
> Bill M0HBR N2CQR CU2JL
> http://www.gadgeteer.us

As far as I'm concerned... saturation has nothing to do with the class the amplifier is running. I can saturate an amplifier in any class. Saturation is most ofen an undesireable effect... that causes distortion in amplifiers.

www.telstar-electronics.com

From -3989938674532906101
X-Google-Thread: fc2a5,d189aa25ea3d4393
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h54g2000cwb.googlegroups.com!not-for-mail
From: "tictac1" <bggungor@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Selecting toroids for HF use...
Date: 5 Nov 2006 10:32:10 -0800
Organization: http://groups.google.com
Lines: 9
Message-ID: <1162751530.503894.305400@h54g2000cwb.googlegroups.com>
References: <1162662855.345115.209880@h48g2000cwc.googlegroups.com>
   <12kpptmsmqm9k15@corp.supernews.com>
   <1162669180.368863.228540@h48g2000cwc.googlegroups.com>
   <1162677576.987403.24830@e3g2000cwe.googlegroups.com>
NNTP-Posting-Host: 88.240.1.20
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162751535 30664 127.0.0.1 (5 Nov 2006 18:32:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 5 Nov 2006 18:32:15 +0000 (UTC)
In-Reply-To: <1162677576.987403.24830@e3g2000cwe.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; tr; rv:1.8.0.7) Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h54g2000cwb.googlegroups.com; posting-host=88.240.1.20;
   posting-account=h96SeQ0AAABpb71GK4GCVx4_l4hGmsTk
Xref: g2news2.google.com rec.radio.amateur.homebrew:7690

I checked Fair-rite's site but couldn't find anything about frequency characteristics of toroidal cores. Also, you know, as a homebrewer i can't buy parcels of material like toroids, and I don't think that distributor can sell small number of items, can they? Anyway, doesn't anyone use Philips toroids, or is there no such thing as Philips cores?

Thanks...

From 1056373579756788651
X-Google-Thread: fc2a5,28a3144a154337bc
X-Google-Thread: 106d41,981e3a27d52fbe4d
X-Google-Attributes: gidfc2a5,gid106d41,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb
Subject: Re: Class C amps and saturation (again)
Date: Sun, 05 Nov 2006 10:39:43 -0800
Message-ID: <opbsk2hqc2dl5jnatg1m2l3dnu67gh9s5c@4ax.com>
References: <1162665254.828375.182050@k70g2000cwa.googlegroups.com>
<1162751171.421981.27940@e3g2000cwe.googlegroups.com>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node129-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1162739130 66.52.61.129 (5 Nov 2006 10:05:30 -0500)
Lines: 16
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.129
Path: g2news2.google.com!news3.google.com!news2.google.com!news.maxwell.syr.edu!
newsfeed00.sul.t-online.de!t-online.de!inka.de!rz.uni-karlsruhe.de!
morpheus.pingos.org!news.unoc.net!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:7691 rec.radio.cb:21754

ORIGINAL MESSAGE:

On 5 Nov 2006 10:26:11 -0800, "Telstar Electronics"
<briangriffey@sbcglobal.net> wrote:

>Saturation is most ofen an undesireable effect... that causes
>distortion in amplifiers.

------------ REPLY FOLLOWS ------------

Saturation is only undesirable in LINEAR amplifiers. In non-linear amps which are often used for CW, RTTY or FM, saturation is good because it improves efficiency. Distortion in those applications is unimportant.

Bill, W6WRT

From -4421846762975887503
X-Google-Thread: fc2a5,d189aa25ea3d4393
X-Google-Attributes: gidfc2a5,public

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-
mail
From: sailtamarack@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Selecting toroids for HF use...
Date: 5 Nov 2006 11:35:31 -0800
Organization: http://groups.google.com
Lines: 35
Message-ID: <1162755331.654722.22130@b28g2000cwb.googlegroups.com>
References: <1162662855.345115.209880@h48g2000cwc.googlegroups.com>
   <12kpptmsmqm9k15@corp.supernews.com>
   <1162669180.368863.228540@h48g2000cwc.googlegroups.com>
   <1162677576.987403.24830@e3g2000cwe.googlegroups.com>
   <1162751530.503894.305400@h54g2000cwb.googlegroups.com>
NNTP-Posting-Host: 70.66.131.246
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162755335 11557 127.0.0.1 (5 Nov 2006 19:35:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 5 Nov 2006 19:35:35 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=70.66.131.246;
   posting-account=gXcV3gwAAACKhdV_aZ9TbpV32cSAnBGe
Xref: g2news2.google.com rec.radio.amateur.homebrew:7692
```

Philips is no longer in the ferrite business!! They sold the company to Yaego and it now operates as Ferroxcube. The Philips cores in your area must be available as surplus parts. Use google "Philips Components Magnetics" and you will find old spec sheets.

You can find current toroid data and a handbook at http://www.ferroxcube.com/ They have kept some of the Philips part numbers.

More toroid info at
http://www.electronics-tutorials.com/basics/toroids.htm and
http://users.catchnet.com.au/~rjandusimports/

Did you download "mini-RC Calculator" ???
www.dl5swb.de/html/software_for_amateur_radio.htm

This program will answer many of your questions.

Roger

tictac1 wrote:
> I checked Fair-rite's site but couldn't find anything about frequency
> characteristics of toroidal cores. Also, you know, as a homebrewer i
> can't buy parcels of material like toroids, and I don't think that
> distributor can sell small number of items, can they? Anyway, doesn't
> anyone use Philips toroids, or is there no such thing as Philips cores?
>
>
> Thanks...

```
From -7324153364309704919
X-Google-Thread: fc2a5,50df56c5ed24fcad,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 05 Nov 2006 13:53:07 -0600
From: "Andy Bullington" <a7bull@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Magnavox transistors
Date: Sun, 5 Nov 2006 14:53:17 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <lcydnRt-9aK-3NPYnZ2dnUVZ_rOdnZ2d@comcast.com>
Lines: 8
NNTP-Posting-Host: 24.34.118.205
X-Trace: sv3-7x4Bziwy3DF2owQVT1ioMTOdGmoK3/
izAThupG3c7aZ2SYaPnRY7YPByRRWMOpQXL3VUYbqRaoM0baa!
ZRxtBpUtM4k5SaiR5LP1YUFpYI1CphPeXITHo5PkQsnoApNyBoCi5+DBZYIUCgsqVRyPZoSxM4g8!
gc6DYK8fYz5mFvfOgQ==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7693
```

A friend who was in the TV repair business for many years has given me a large bag of transistors in little plastic squares marked
Magnavox factory replacement part and then a serial number. They are all different and I would love to know what their equivalents are. Is there a site or any way of getting this information? Thanks.

Andy W1AWB

```
From 7984469753078407893
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f16g2000cwb.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW to FM Remodulator?
Date: 5 Nov 2006 12:46:03 -0800
Organization: http://groups.google.com
Lines: 31
Message-ID: <1162759563.714741.278140@f16g2000cwb.googlegroups.com>
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
   <1162556859.782446.301680@h48g2000cwc.googlegroups.com>
   <1162569647.116221.22280@b28g2000cwb.googlegroups.com>
   <3r2nk2lpmk8knidb7uhlpsmajupdukkkou@4ax.com>
   <1162591085.500898.182100@h54g2000cwb.googlegroups.com>
   <oHj3h.1040$C57.131@trndny05>
   <1162740017.628783.176870@f16g2000cwb.googlegroups.com>
   <UUo3h.2525$qJ6.2375@trndny07>
   <FKp3h.1051803$084.991392@attbi_s22>
NNTP-Posting-Host: 66.19.114.69
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162759567 25228 127.0.0.1 (5 Nov 2006 20:46:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 5 Nov 2006 20:46:07 +0000 (UTC)
In-Reply-To: <FKp3h.1051803$084.991392@attbi_s22>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f16g2000cwb.googlegroups.com; posting-host=66.19.114.69;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:7694
```

William E. Sabin wrote:

> Agilent App Note says:
>
> Tangential sensitivity is the lowest input signal power level for which the
> detector will have an 8 dB signal-to-noise ratio at the output of a test
> video amplifier.
>
> http://www.home.agilent.com/upload/cmc_upload/All/DetectorOverview.pdf
>
> Bill W0IYH
>

Andy writes:

I used 8.5 db, tho , as you know, it has a LOT to do with who is making the measurement and positioning the pulse on the scope....
I'm not sure that I am proficient enough to position an 8db pedestal to within a half db accuracy...... Agilent probly used a math derivation.
I have seen it called out at several numbers, tho 8.5 is the one I always used....

I will probly start using 8 db if the Agilent App note says so since there is always somebody wanting to get a "reference", and it's much easier to just give them the App Note source than try to explain....
Once they actually see the scope presentation, they will understand the problem...

Andy in Eureka

```
From -3077262818538426982
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW to FM Remodulator?
Date: 5 Nov 2006 12:56:33 -0800
Organization: http://groups.google.com
Lines: 37
Message-ID: <1162760193.213243.4520@m73g2000cwd.googlegroups.com>
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
   <1162556859.782446.301680@h48g2000cwc.googlegroups.com>
   <1162569647.116221.22280@b28g2000cwb.googlegroups.com>
   <3r2nk2lpmk8knidb7uhlpsmajupdukkkou@4ax.com>
   <1162591085.500898.182100@h54g2000cwb.googlegroups.com>
   <oHj3h.1040$C57.131@trndny05>
   <1162740017.628783.176870@f16g2000cwb.googlegroups.com>
   <UUo3h.2525$qJ6.2375@trndny07>
NNTP-Posting-Host: 66.19.114.69
Mime-Version: 1.0
Content-Type: text/plain; charset="windows-1256"
X-Trace: posting.google.com 1162760199 27263 127.0.0.1 (5 Nov 2006 20:56:39 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 5 Nov 2006 20:56:39 +0000 (UTC)
In-Reply-To: <UUo3h.2525$qJ6.2375@trndny07>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=66.19.114.69;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:7695

W3JDR wrote:
> So it's not a "mathematical fact" in the sense that any of us can look it up
> and see how it was derived, it's your recollection of something you heard
> and vaguely remember convincing yourself it could be true, right?
>

Andy replies:
That's right. But just because I don't remember how to derive it, or can give you the name of the paper that I read 25-30 years ago, it doesn't mean it's wrong. So I would suggest you do your own research....

Whether it is true, or not true, IS a mathematical fact, and if you are capable of understanding the math proof, you are probably also capable of proving or disproving it yourself on paper. Me, hell , I always had a good lab where I could try things out if I had doubt.....

It is probly easier, if you have access to a good lab, to rig up an experiment to find out..... That way you wouldn't have to bother with newsgroups to learn about this stuff.....

I would encourage you to try. If you come up with a good answer you can be proud of, post it back here for us all to see. I am sure many people here would be interested , since lots of time is often wasted coming up with circuits whose purpose is doomed from the start.... such as using "hard limiters" to improve the SNR........

As far as the "tangential sensitivity", you can probly do a google search and learn all about it.... If you haven't run into it yet, you probably don't deal with OOK pulses like radar and stuff. There's no shame in that.....

:>)))) Andy in Eureka, Texas W4OAH

From -7542992343203009542
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW to FM Remodulator?
Date: 5 Nov 2006 13:16:20 -0800
Organization: http://groups.google.com
Lines: 81

```
Message-ID: <1162761380.900039.268890@e3g2000cwe.googlegroups.com>
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
   <1162556859.782446.301680@h48g2000cwc.googlegroups.com>
   <1162569647.116221.22280@b28g2000cwb.googlegroups.com>
   <3r2nk2lpmk8knidb7uhlpsmajupdukkkou@4ax.com>
   <1162591085.500898.182100@h54g2000cwb.googlegroups.com>
   <oHj3h.1040$C57.131@trndny05>
   <1162740017.628783.176870@f16g2000cwb.googlegroups.com>
   <UUo3h.2525$qJ6.2375@trndny07>
   <1162760193.213243.4520@m73g2000cwd.googlegroups.com>
NNTP-Posting-Host: 66.19.114.69
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1162761385 26761 127.0.0.1 (5 Nov 2006 21:16:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 5 Nov 2006 21:16:25 +0000 (UTC)
In-Reply-To: <1162760193.213243.4520@m73g2000cwd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=66.19.114.69;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:7696
```

Andy writes

Well, I saved you some time by googling it myself. It took about 10 seconds
to be able to cut and paste the definition I have been talking about....

Note that in this paper it says TSS is eight db +/- one db ....
and depends on several system factors, including the
actual detector used... From experience, the detector type,
and the absolute signal level it is detecting, is a BIG DEAL.
It needs to operate in the "perfect diode" region . Doing the
detection in the square law region buggers up the measurement.

That +/- one db is due to the accuracy that one operator can set up the
scope versus the next operator that comes along. I use 8.5 db, and
I DARE anyone to set the same measurement up 10 times in a row and
get the same answer to less than +/- one db.

Agilent probly uses a math derivation to get 8 db to accomplish
some specific criteria, and did not specify a detector type, hence
it is a "mathematically perfect " answer. Furthermore, they use a different
definition, but ORIGINALLY it was bases on the FIRST SENTENCE in
the cut and paste below...

The Agilent App Note that Bill Sabin refers to also came up on the first page of hits, and you can go read it for yourself.

I hope this satisfies your curiousity. I had nothing better to do today..... Now, I'm outta beer, and Jeff Foxworthy is on TV, so 73s

Andy W40AH

***********CUT AND PASTE FROM GOOGLE HIT *************************

TANGENTIAL SENSITIVITY

Tangential sensitivity (TSS) is the point where thetop of the noise level with no signal applied is level with thebottom of the noise level on a pulse as shown in Figure 6.

Itcan be determined in the laboratory by varying the amplitudeof the input pulse until the stated criterion is reached, or byvarious approximation formulas.The signal power is nominally 8=B11 dB above thenoise level at the TSS point. TSS depends on the RFbandwidth, the video bandwidth, the noise figure, and the detector characteristic.

TSS is generally a characteristic associated with receivers (or RWRs), however the TSS does not necessarilyprovide a criterion for properly setting the detection threshold. If the threshold is set to TSS, then the false alarm rate israther high.

Radars do not operate at TSS. Most require a more positive S/N for track (> 10 dB) to reduce false detectionon noise spikes.

SENSITIVITY CONCLUSION

When all factors effecting system sensitivity are considered, the designer has little flexibility in the choice ofreceiver parameters. Rather, the performance requirements dictate the limit of sensitivity which can be implemented by theEW receiver.1. Minimum Signal-to-Noise Ratio (S/N) - Set by the accuracy which you want to measure signal parameters and by thefalse alarm requirements.2. Total Receiver Noise Figure (NF) - Set by available technology and system constraints for RF front end performance.3. Equivalent Noise Bandwidth (B) - Set by minimum pulse width or maximum modulation bandwidth needed toNaccomplish the system requirements. A choice which is available to the designer is the relationship of pre- (B) and post-IFdetection (B) bandwidth. The most affordable approach is to set the post-detection filter equal to the reciprocal of theVminimum pulse width, then choose the pre-detection passband to be as wide as the background interference environmentwill allow. Recent studies suggest that pre-detection bandwidths in excess of 100 MHz will allow significant loss of signalsdue to "pulse-on-pulse" conditions. 4. Antenna Gain (G) - Set by the needed instantaneous FOV needed to support the system time to intercept requirements.

*****************END OF CUT AND PASTE
****

From 8021699856110547023
X-Google-Thread: fc2a5,28a3144a154337bc
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 05 Nov 2006 16:13:16 -0600
Date: Sun, 05 Nov 2006 14:13:30 -0800
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Class C amps and saturation (again)
References: <1162665254.828375.182050@k70g2000cwa.googlegroups.com> <Z9qdnZ1JW9m-
d9HYnZ2dnUVZ_s2dnZ2d@web-ster.com> <12kq3llsge9akfb@corp.supernews.com>
In-Reply-To: <12kq3llsge9akfb@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <OKidnRm0grxg_NPYnZ2dnUVZ_tOdnZ2d@web-ster.com>
Lines: 40
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X-Trace:
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+!IPZRv8p/b8ungeyX9q1659pNR5L5n2dR1dYSBqIbommHpNlsBmLFDmCFKcPR4sqVqx7i5m8zr+WM!
7m3uBHBZBU+Nud6/
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7697

Roy Lewallen wrote:
> Tim Wescott wrote:
>
>> . . .
>> The "saturation" in bipolar transistor terminology means "current
>> saturation", but it could just as well mean "carrier saturation".
>> When the transistor is saturated the base region is stuffed full of
>> carriers (holes, for an NPN transistor). It takes a while for those
>> carriers to go away, during which the transistor stays on. This is a
>> very nonlinear effect, and can be very slow. The old 74Sxx series
>> logic put a schottkey diode from collector to base on the transistors
>> to keep them out of saturation, and sped them up considerably.
>
>
> The very slow saturation recovery you see in saturated switch

> applications (unless using a gold-doped transistor) is largely absent in
> typical RF power applications. The reason is the bipolar drive usually
> employed -- there's typically a large amount of negative base current
> available to suck the stored charge out of the base region in a hurry.
>
>> . . .

I didn't think of that -- in spite of having applied it in a small switching regulator application, per an ap note by Zetex.

D'oh.

Thanks for pointing it out -- perhaps I'll remember this second application. Perhaps when the third one comes around I'll put one and one together...

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From -8754697017902720845
X-Google-Thread: fc2a5,d189aa25ea3d4393
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!newsfeed.icl.net!
newsfeed.fjserv.net!newsfeed.freenet.de!feeder.news-service.com!
138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-03!sn-ams!sn-feed-ams-03!sn-ams!sn-
feed-ams-02!sn-post-ams-01!sn-post-sjc-02!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Selecting toroids for HF use...
Date: Sun, 05 Nov 2006 14:13:38 -0800
Organization: EZNEC Antenna Software
Message-ID: <12ksogm2l8lgcd2@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <1162662855.345115.209880@h48g2000cwc.googlegroups.com>
<12kpptmsmqm9k15@corp.supernews.com>
<1162669180.368863.228540@h48g2000cwc.googlegroups.com>
<1162677576.987403.24830@e3g2000cwe.googlegroups.com>
<1162751530.503894.305400@h54g2000cwb.googlegroups.com>
In-Reply-To: <1162751530.503894.305400@h54g2000cwb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
```

X-Complaints-To: abuse@supernews.com
Lines: 23
Xref: g2news2.google.com rec.radio.amateur.homebrew:7698

tictac1 wrote:
> I checked Fair-rite's site but couldn't find anything about frequency
> characteristics of toroidal cores.

???

On the main page, under "Technical Articles", "Use of Ferrites in Broadband Transformers" has a large amount of information about frequency characteristics. So does "How to Choose Ferrite Components for EMI Suppression".

> Also, you know, as a homebrewer i
> can't buy parcels of material like toroids, and I don't think that
> distributor can sell small number of items, can they? Anyway, doesn't
> anyone use Philips toroids, or is there no such thing as Philips cores?

I'm puzzled. . . does Philips sell small numbers of cores directly either? I'm sure some of the folks here can recommend retailers who sell a small number of cores from various manufacturers. The last time I checked -- some time ago -- Amidon was still selling Micrometals powdered iron cores and ferrites from Fair-rite and Magnetics.

Roy Lewallen, W7EL

From -5317720880438929895
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s71.POSTED!53ab2750!not-for-mail
From: "William E. Sabin" <w.sabin@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
<1162556859.782446.301680@h48g2000cwc.googlegroups.com>
<1162569647.116221.22280@b28g2000cwb.googlegroups.com>
<3r2nk2lpmk8knidb7uhlpsmajupdukkkou@4ax.com>
<1162591085.500898.182100@h54g2000cwb.googlegroups.com>
<oHj3h.1040$C57.131@trndny05>
<1162740017.628783.176870@f16g2000cwb.googlegroups.com>
<UUo3h.2525$qJ6.2375@trndny07> <FKp3h.1051803$084.991392@attbi_s22>
<1162759563.714741.278140@f16g2000cwb.googlegroups.com>
Subject: Re: CW to FM Remodulator?
Lines: 45
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <cAt3h.225668$FQ1.198085@attbi_s71>
NNTP-Posting-Host: 12.217.178.216
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s71 1162765704 12.217.178.216 (Sun, 05 Nov 2006 22:28:24 GMT)
NNTP-Posting-Date: Sun, 05 Nov 2006 22:28:24 GMT
Organization: AT&T ASP.att.net
Date: Sun, 05 Nov 2006 22:28:24 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7699

There are so many variables and approximations involved that it would seem difficult to be very precise about 8.0 or 8.5 dB S/N ratio or some other number. The decision probably involves the type of signal involved. 8.0 dB in one application gives the minimum acceptible performance for one kind of signal. A more critical system might want more than 8.0 dB to achieve a better bit error rate, for example.

Bill W0IYH

"AndyS" <andysharpe@juno.com> wrote in message
news:1162759563.714741.278140@f16g2000cwb.googlegroups.com...
>
> William E. Sabin wrote:
>> Agilent App Note says:
>>
>> Tangential sensitivity is the lowest input signal power level for which
>> the
>> detector will have an 8 dB signal-to-noise ratio at the output of a test
>> video amplifier.
>>
>> http://www.home.agilent.com/upload/cmc_upload/All/DetectorOverview.pdf
>>
>> Bill W0IYH
>>
>
> Andy writes:
>
>   I used 8.5 db, tho , as you know, it has a LOT to do with who is
> making the measurement and positioning the pulse on the scope....
> I'm not sure that I am proficient enough to position an 8db pedestal
> to within a half db accuracy...... Agilent probly used a math
> derivation.
> I have seen it called out at several numbers, tho 8.5 is the one I
> always used....
>
>   I will probly start using 8 db if the Agilent App note says so since
> there is always somebody wanting to get a "reference", and it's
> much easier to just give them the App Note source than try to
> explain....
> Once they actually see the scope presentation, they will understand
> the problem...
>   Andy in Eureka
>

From -263052133078819783
X-Google-Thread: fc2a5,eb4685452206c2fe
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wn14feed!worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
Message-ID: <454E6AE0.2380BCBA@jimbo.net>
From: jimbo <jimbo@jimbo.net>
X-Mailer: Mozilla 4.79 [en] (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 144 MHz Amplifer
References: <ei8b87$74t$1@news1.carnet.hr>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 9
Date: Sun, 05 Nov 2006 22:51:14 GMT
NNTP-Posting-Host: 12.76.215.62
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1162767074 12.76.215.62 (Sun, 05 Nov 2006 22:51:14 GMT)
NNTP-Posting-Date: Sun, 05 Nov 2006 22:51:14 GMT
Organization: AT&T Worldnet
Xref: g2news2.google.com rec.radio.amateur.homebrew:7700

hi,

I've got schematics for the rf concepts 2-23 brick

will scan them in monday eve in pdf for you.

73 james

From -1732314058211368485
X-Google-Thread: fc2a5,50df56c5ed24fcad
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wn14feed!worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
Message-ID: <454E6B96.91863463@jimbo.net>
From: jimbo <jimbo@jimbo.net>
X-Mailer: Mozilla 4.79 [en] (Windows NT 5.0; U)
X-Accept-Language: en

MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Magnavox transistors
References: <lcydnRt-9aK-3NPYnZ2dnUVZ_rOdnZ2d@comcast.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
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X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1162767255 12.76.215.62 (Sun, 05 Nov 2006 22:54:15 GMT)
NNTP-Posting-Date: Sun, 05 Nov 2006 22:54:15 GMT
Organization: AT&T Worldnet
Xref: g2news2.google.com rec.radio.amateur.homebrew:7701

hi andy,

if parts have numbers on them (not plastic bag)
try the substitution tool

http://nte01.nteinc.com/nte/NTExRefSemiProd.nsf/$$Search?OpenForm

Andy Bullington wrote:

> A friend who was in the TV repair business for many years has given me a
> large bag of transistors in little plastic squares marked
> Magnavox factory replacement part and then a serial number. They are all
> different and I would love to know what their equivalents are. Is there a
> site or any way of getting this information? Thanks.
>   Andy W1AWB

From -1667730299913256597
X-Google-Thread: fc2a5,d189aa25ea3d4393
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Sun, 05 Nov 2006 16:56:35 -0600
Date: Sun, 05 Nov 2006 22:56:46 +0000
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/20060910 SeaMonkey/1.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Selecting toroids for HF use...
References: <1162662855.345115.209880@h48g2000cwc.googlegroups.com>
<12kpptmsmqm9k15@corp.supernews.com>
<1162669180.368863.228540@h48g2000cwc.googlegroups.com>
<1162677576.987403.24830@e3g2000cwe.googlegroups.com>

<1162751530.503894.305400@h54g2000cwb.googlegroups.com>
<12ksogm2l8lgcd2@corp.supernews.com>
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2NNhzWFhPQs+3Sz+Sis20oNL9uXsOYOD!w50Qs9O/HGZ2yw==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7702

> I'm puzzled. . . does Philips sell small numbers of cores directly
> either? I'm sure some of the folks here can recommend retailers who sell
> a small number of cores from various manufacturers. The last time I
> checked -- some time ago -- Amidon was still selling Micrometals
> powdered iron cores and ferrites from Fair-rite and Magnetics.

=================================
In the UK there are quite a number of small retailers which can supply
ferrite as well as powder iron cores.
www.sycom.co.uk
www.jabdog.com
www.modecomponents.co.uk

Also the G-QRP club sells both types of cores to members.

Frank   GM0CSZ / KN6WH

From -9007577491100057554
X-Google-Thread: fc2a5,f1dba362517c5e5f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: CW to FM Remodulator?
Date: 5 Nov 2006 15:49:43 -0800
Organization: http://groups.google.com
Lines: 54
Message-ID: <1162770583.044809.292510@m7g2000cwm.googlegroups.com>
References: <1162526305.552507.202020@e3g2000cwe.googlegroups.com>
<1162556859.782446.301680@h48g2000cwc.googlegroups.com>

<1162569647.116221.22280@b28g2000cwb.googlegroups.com>
<3r2nk2lpmk8knidb7uhlpsmajupdukkkou@4ax.com>
<1162591085.500898.182100@h54g2000cwb.googlegroups.com>
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<cAt3h.225668$FQ1.198085@attbi_s71>
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X-Complaints-To: groups-abuse@google.com
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In-Reply-To: <cAt3h.225668$FQ1.198085@attbi_s71>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98; DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=66.19.115.96;
posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:7703

William E. Sabin wrote:

> There are so many variables and approximations involved that it would seem difficult to be very precise about 8.0 or 8.5 dB S/N ratio or some other number. The decision probably involves the type of signal involved. 8.0 dB in one application gives the minimum acceptible performance for one kind of signal. A more critical system might want more than 8.0 dB to achieve a better bit error rate, for example.
>
> Bill W0IYH

Andy comments:

Yeah, ... the way I used it was to adjust the level to tangential, then increase the signal level with an attenuator to get the S/n I wanted,,,,,

You know how hard it is to put together the stuff to measure the S/N of a pulsed signal ? Well, by setting it up to get 'tangential" then messing with the attenuators to get what I wanted, I could, with reasonable accuracy, set up a measurement for 13 o 14 db S/n , or whatever, to take the Pfa measurement....

(Those are the S/N levels that reasonable Pfa and Pd numbers occur)

Remember, Tangential Sensitivity was defined 50 years before
Agilent
was in existence... Maybe more....... It allowed a person with a scope
to
make reasonably accurate measurements, and refine their systems to take
advantage of it, 50 years before the simulators, and math, dealt
conclusively
with the issue. Hewlitt was using light bulbs to make audio
oscillators when
RADAR engineers were finding German airplanes....

If my use of the HISTORICAL term has confused these kids that just
got
their BSEE,...... I don't really care....

Why do we respond to these kids ? Probably because we both are
retired and bored.....If they want to prove we are stupid, ...
hell,.... it's
OK with me..... I admit readily to having only a fraction of the math
ability
that I would need to understand all of the things I know to be true...
.... Including Pi.............

Andy in Eureka, W4OAH, over-the-hill on Lake Richland-Chambers

```
From -2445152137726699614
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!uns-out.usenetserver.com!
news.usenetserver.com!pc02.usenetserver.com!VERMONTEL.NET-a2kHrUvQQWlmc!not-for-
mail
From: X-rated Vermonter <k1xvnospam@arrl.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
Date: Sun, 05 Nov 2006 19:44:03 -0500
Reply-To: k1xvnospam@arrl.net
Message-ID: <991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Organization: VTel Internet NNTP
```

Cache-Post-Path: r2d2.vermontel.net!unknown@vtelinet-209-134-36-80.vermontel.net
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
X-Complaints-To: abuse@usenetserver.com
Lines: 9
X-Trace: 2cdf8454e85537de7c94b12910
Xref: g2news2.google.com rec.radio.amateur.antenna:21064
rec.radio.amateur.homebrew:7704 rec.radio.amateur.policy:53025
rec.radio.scanner:7594 rec.radio.swap:9504

On Sat, 04 Nov 2006 23:58:09 GMT, Slow Code <my.mail@no.spam> wrote:

>If all the seats are taken at a club meeting and a 20wpm code tested Extra
>is standing, a no-code ham should give their seat to the Extra and sit
>on the floor. After saluting of course.
>
>SC
++++++++
You have been drinking too much sloe gin.

From -1472734878939701022
X-Google-Thread: fc2a5,28a3144a154337bc
X-Google-Thread: 106d41,981e3a27d52fbe4d
X-Google-Thread: 10bf43,6d366c29e01cd88b,start
X-Google-Attributes: gidfc2a5,gid106d41,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb,rec.radio.amateur.policy
Subject: Re: Class C amps and saturation (again)
From: Slow Code <my.mail@no.spam>
References: <1162665254.828375.182050@k70g2000cwa.googlegroups.com>
<1162751171.421981.27940@e3g2000cwe.googlegroups.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 59
Message-ID: <q1w3h.2748$l25.2190@newsread4.news.pas.earthlink.net>
Date: Mon, 06 Nov 2006 01:16:06 GMT
NNTP-Posting-Host: 4.228.228.177
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1162775766 4.228.228.177 (Sun, 05 Nov
2006 17:16:06 PST)
NNTP-Posting-Date: Sun, 05 Nov 2006 17:16:06 PST
Xref: g2news2.google.com rec.radio.amateur.homebrew:7705 rec.radio.cb:21760
rec.radio.amateur.policy:53030

"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in
news:1162751171.421981.27940@e3g2000cwe.googlegroups.com:

> bill.meara@gmail.com wrote:
>> Back in July I wrote:

>>
>> I'm reading David Rutledge's excellent "The Electronics of Radio."
>> In Chapter 10 -- Power Amplifiers, he discusses Class C amps and says,
>> "In addition, if we drive the transistor clear to saturation, using the
>>
>> transistor as a switch, the dissipated power can be greatly reduced,
>> because the saturation voltage is low. This is Class C
>> amplification..."
>> I'd always throught that in Class C, while you'd operate the device so
>> that it was cutoff during most of the cycle, but not saturated.
>> Is this just a different definition of Class C?
>> I checked back with SSDRA and EMRFD, and didn't see anything about
>> driving Class C amps into saturation?
>> What says the group? Do we saturate in Class C or not?
>> ---
>> I've been thinking about this some more. The 1980 ARRL handbook points
>> out that "Solid State power amplifiers should be operated just below
>> their saturation points for best efficiency and stability." Also, the
>> formula that we use to determine load resistance (Rl=Vcc^2/2Po) implies
>> that we are looking for a combination of Vcc, Load resistance and power
>> out that will prevent saturation.
>> And wouldn't we end up with far lower harmonic content if we only clip
>> one side of the wave form (at cutoff) instead of both sides (cutoff and
>> saturation)?
>>
>> I know there are more exotic modes beyond C, but for plain old ordinary
>> ham radio applications, don't we normally avoid saturation in Class C
>> amps?
>>
>> Also, what about this business of having the efficiency improve through
>> saturation "because the saturation voltage is low"   Could that be
>> right?   If you put a voltage across a conductor and generate a large
>> current, you can't sit back and say "Great! Power consumption across
>> the conductor is low because the voltage drop across it is now
>> minimal!"
>>
>> 73 from London
>> Bill M0HBR N2CQR CU2JL
>> http://www.gadgeteer.us
>
>
> As far as I'm concerned... saturation has nothing to do with the class
> the amplifier is running. I can saturate an amplifier in any class.
> Saturation is most ofen an undesireable effect... that causes
> distortion in amplifiers.
>
> www.telstar-electronics.com

Don't worry about saturation. CB'ers think over saturation produces
a better sounding signal. Of course, on ham radio we would call
them Lids.

```
SC



From -8432832460021968977
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
From: Slow Code <my.mail@no.spam>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 20
Message-ID: <s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
Date: Mon, 06 Nov 2006 01:16:08 GMT
NNTP-Posting-Host: 4.228.228.177
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1162775768 4.228.228.177 (Sun, 05 Nov
2006 17:16:08 PST)
NNTP-Posting-Date: Sun, 05 Nov 2006 17:16:08 PST
Xref: g2news2.google.com rec.radio.amateur.antenna:21065
rec.radio.amateur.homebrew:7706 rec.radio.amateur.policy:53031
rec.radio.scanner:7595 rec.radio.swap:9505

X-rated Vermonter <k1xvnospam@arrl.net> wrote in
news:991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com:

> On Sat, 04 Nov 2006 23:58:09 GMT, Slow Code <my.mail@no.spam> wrote:
>
>>If all the seats are taken at a club meeting and a 20wpm code tested
>>Extra is standing, a no-code ham should give their seat to the Extra and
>>sit on the floor.  After saluting of course.
>>
>>SC
> ++++++++
> You have been drinking too much sloe gin.



Please wipe the seat after you get off to sit on the floor.

Thanks.
```

SC

```
From -8231402361457827641
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
208.49.83.154.MISMATCH!uns-out.usenetserver.com!news.usenetserver.com!
pc02.usenetserver.com!VERMONTEL.NET-a2kHrUvQQWlmc!not-for-mail
From: X-rated Vermonter <k1xvnospam@arrl.net>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
Date: Sun, 05 Nov 2006 20:39:33 -0500
Reply-To: k1xvnospam@arrl.net
Message-ID: <lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
References: <l093h.2461$0r.1796@newsread1.news.pas.earthlink.net>
<991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
<s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
X-Newsreader: Forte Agent 4.1/32.1088
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Organization: VTel Internet NNTP
Cache-Post-Path: r2d2.vermontel.net!unknown@vtelinet-209-134-36-80.vermontel.net
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
X-Complaints-To: abuse@usenetserver.com
Lines: 25
X-Trace: 14350454e92107de7c94b17879
Xref: g2news2.google.com rec.radio.amateur.antenna:21066
rec.radio.amateur.homebrew:7707 rec.radio.amateur.policy:53041
rec.radio.scanner:7596 rec.radio.swap:9506
```

On Mon, 06 Nov 2006 01:16:08 GMT, Slow Code <my.mail@no.spam> wrote:

```
>X-rated Vermonter <k1xvnospam@arrl.net> wrote in
>news:991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com:
>
>> On Sat, 04 Nov 2006 23:58:09 GMT, Slow Code <my.mail@no.spam> wrote:
>>
>>>If all the seats are taken at a club meeting and a 20wpm code tested
>>>Extra is standing, a no-code ham should give their seat to the Extra and
>>>sit on the floor.  After saluting of course.
>>>
>>>SC
```

```
>> ++++++++
>> You have been drinking too much sloe gin.
>
>
>
>Please wipe the seat after you get off to sit on the floor.
>
>Thanks.
>
>SC
+++++++++
It just so happens that I passed a 20 wpm code test and I think you
are a bozo.


From 6899359116470148493
X-Google-Thread: fc2a5,28a3144a154337bc
X-Google-Thread: 106d41,981e3a27d52fbe4d
X-Google-Attributes: gidfc2a5,gid106d41,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news01.roc.ny.POSTED!53ab2750!
not-for-mail
From: "Jim Hampton" <aa2qa@frontiernet.net>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb
References: <1162665254.828375.182050@k70g2000cwa.googlegroups.com>
<1162751171.421981.27940@e3g2000cwe.googlegroups.com>
Subject: Re: Class C amps and saturation (again)
Lines: 82
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <NGx3h.4791$Ka1.2350@news01.roc.ny>
X-Complaints-To: abuse-news@frontiernet.net
X-Trace:
52616e646f6d49567942aa9b802daf2f1e35aea1adc73b36e4669705367bf3f63818b103bff1f6d8ba
f1c0e9fee8b6fb45e3dff7e9cb26641bbb6652a46f293e8d52f59ad4623bb7020c63982e9e877a85fb
83fe428963afd7c4b663194e01b8efad6edd020285cd5507c78a67843651
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Mon, 06 Nov 2006 03:08:29 UTC
Date: Mon, 06 Nov 2006 03:08:29 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7708 rec.radio.cb:21764


"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
news:1162751171.421981.27940@e3g2000cwe.googlegroups.com...
> bill.meara@gmail.com wrote:
> > Back in July I wrote:
> >
> > I'm reading David Rutledge's excellent "The Electronics of Radio."
```

> > In Chapter 10 -- Power Amplifiers, he discusses Class C amps and says,
> > "In addition, if we drive the transistor clear to saturation, using the
> >
> > transistor as a switch, the dissipated power can be greatly reduced,
> > because the saturation voltage is low. This is Class C
> > amplification..."
> > I'd always throught that in Class C, while you'd operate the device so
> > that it was cutoff during most of the cycle, but not saturated.
> > Is this just a different definition of Class C?
> > I checked back with SSDRA and EMRFD, and didn't see anything about
> > driving Class C amps into saturation?
> > What says the group? Do we saturate in Class C or not?
> > ---
> > I've been thinking about this some more. The 1980 ARRL handbook points
> > out that "Solid State power amplifiers should be operated just below
> > their saturation points for best efficiency and stability." Also, the
> > formula that we use to determine load resistance (Rl=Vcc^2/2Po) implies
> > that we are looking for a combination of Vcc, Load resistance and power
> > out that will prevent saturation.
> > And wouldn't we end up with far lower harmonic content if we only clip
> > one side of the wave form (at cutoff) instead of both sides (cutoff and
> > saturation)?
> >
> > I know there are more exotic modes beyond C, but for plain old ordinary
> > ham radio applications, don't we normally avoid saturation in Class C
> > amps?
> >
> > Also, what about this business of having the efficiency improve through
> > saturation "because the saturation voltage is low"   Could that be
> > right?   If you put a voltage across a conductor and generate a large
> > current, you can't sit back and say "Great! Power consumption across
> > the conductor is low because the voltage drop across it is now
> > minimal!"
> >
> > 73 from London
> > Bill M0HBR N2CQR CU2JL
> > http://www.gadgeteer.us
>
>
> As far as I'm concerned... saturation has nothing to do with the class
> the amplifier is running. I can saturate an amplifier in any class.
> Saturation is most ofen an undesireable effect... that causes
> distortion in amplifiers.
>
> www.telstar-electronics.com
>

It can be messy. The class of amplifier is determined by the cut-off (or lack thereof). A class A amplifier neither hits saturation nor hits cut-off. Maximum theoretical efficiency (of a sinusodal waveform) of a class A amp is 50%, but 25% is typical. Very low distortion, of course.

Class B amplifiers are biased at cutoff and only conduct for 50% of the cycle. They shouldn't saturate, however. Efficiencies are around 60%.

Class C amps are typically biased well into cut-off and only conduct for perhaps 90 degrees (25%) of the cycle and can run 70% efficient.

However, there are class D and E amplifiers and they are switchmode amplifiers. They run on or off (cut off or in full saturation). They are normally used for CW or FM and there was a circuit (and components) available from a university to build a cw transmitter using switchmode. The thing ran about 93% efficient!

To add to the confusion, with solid state it *is* possible to use the darn things as a *linear* amplifier! Yep, commercial radio stations now use these things. The problem is that the control circuitry (which, I believe, controls the voltage fed to the final) is very complex and expensive and will be found neither in amateur nor cb equipment for a long time.

73 from Rochester, NY
Jim

From -7985946173649918417
X-Google-Thread: fc2a5,28a3144a154337bc
X-Google-Thread: 106d41,981e3a27d52fbe4d
X-Google-Thread: 10bf43,6d366c29e01cd88b
X-Google-Attributes: gidfc2a5,gid106d41,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups: rec.radio.amateur.homebrew,rec.radio.cb,rec.radio.amateur.policy
Subject: sc contiues crapathon
Date: Sun, 05 Nov 2006 22:28:16 -0500
Message-ID: <ltatk25oqgjbqm1pvq66cpdps4914kc420@4ax.com>
References: <1162665254.828375.182050@k70g2000cwa.googlegroups.com>
<1162751171.421981.27940@e3g2000cwe.googlegroups.com>
<q1w3h.2748$l25.2190@newsread4.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 6
NNTP-Posting-Date: 06 Nov 2006 02:33:26 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7709 rec.radio.cb:21768 rec.radio.amateur.policy:53056

On Mon, 06 Nov 2006 01:16:06 GMT, Slow Code <my.mail@no.spam> wrote:

>"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in

why do you behave so badly sc
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

```
From 6312712903860472430
X-Google-Thread: fcc6e,7dc8762e194b2e61
X-Google-Thread: fc2a5,7dc8762e194b2e61
X-Google-Thread: 10bf43,7dc8762e194b2e61
X-Google-Thread: fa029,7dc8762e194b2e61
X-Google-Thread: 1109af,7dc8762e194b2e61
X-Google-Attributes: gidfcc6e,gidfc2a5,gid10bf43,gidfa029,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-
mail
From: "K4YZ" <k4yz@aol.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.
radio.scanner,rec.radio.swap
Subject: Re: Common courtesy
Date: 5 Nov 2006 22:58:48 -0800
Organization: http://groups.google.com
Lines: 9
Message-ID: <1162796328.142616.84010@e3g2000cwe.googlegroups.com>
References: <lO93h.2461$0r.1796@newsread1.news.pas.earthlink.net>
   <991tk25h97tilno2df445pvh2ouvbf6oog@4ax.com>
   <s1w3h.2749$l25.830@newsread4.news.pas.earthlink.net>
   <lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
NNTP-Posting-Host: 64.12.116.10
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162796333 14971 127.0.0.1 (6 Nov 2006 06:58:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 6 Nov 2006 06:58:53 +0000 (UTC)
In-Reply-To: <lh4tk2h7f0elg6ilpcjdh7ma48crfk7cr0@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 Turboweb
[mtc-te063 8.4.1], HTTP/1.1 cache-mtc-aa06.proxy.aol.com[400C740A] (Traffic-
Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=64.12.116.10;
   posting-account=qNx0vw0AAAA-UHNzUIDJOorYN5_VptjO
Xref: g2news2.google.com rec.radio.amateur.antenna:21067
rec.radio.amateur.homebrew:7710 rec.radio.amateur.policy:53102
rec.radio.scanner:7603 rec.radio.swap:9507
```

X-rated Vermonter wrote:

> It just so happens that I passed a 20 wpm code test and I think you
> are a bozo.

Where's the evidence?

Steve, K4YZ

```
From 4283369064628142168
X-Google-Thread: fc2a5,be31a0b727221190
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Am transmitter - vlsi project
Date: 26 Oct 2006 11:08:34 -0700
Organization: http://groups.google.com
Lines: 32
Message-ID: <1161886114.780096.19650@m7g2000cwm.googlegroups.com>
References: <1161881326.381418.198670@f16g2000cwb.googlegroups.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161886120 25510 127.0.0.1 (26 Oct 2006 18:08:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 26 Oct 2006 18:08:40 +0000 (UTC)
In-Reply-To: <1161881326.381418.198670@f16g2000cwb.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7560
```

hananl wrote:
> Hi,
> I need to design an AM transmitter as a vlsi project (it needs to be
> located on smart dust later on).
> Does anyone have any good suggestions were to start from? I am familiar
> with vlsi, but don't really know how to implement such a big idea, into
> a vlsi simulation and circuit design.
> Looking on trasmitter's schemes didn't help, 'cause that's all
> resistors, amplifiers and capacitors. How do I translate it into vlsi
> design?
> Be very glad to any guidance...
> Thanks.

Why is this so difficult? Just consider what an AM signal is. Please note that Motorola and I'm sure others have made analog AM transmitter chips beginning a long time ago; they are not "VLSI" by any means. If you'd like to do it more digitally, have a look at the offerings from folk like Analog Devices. Look at their line of TxDACs. Inside some of those chips, you'll find everything you need to make an AM transmitter, given a stream of words representing the modulation you want to apply, and then some.

Is "VLSI" compatible with "smart dust"? Is the power dissipation of a universal all-digital solution compatible with "smart dust"?

You might do well to first list some of the key requirements: output power, size, carrier frequency, modulation bandwidth...

Cheers,
Tom

```
From -9126963156228601489
X-Google-Thread: fc2a5,2b870448415b1023
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!24.30.200.11!news-east.rr.com!
news.rr.com!news-wrt-01.rdc-nyc.rr.com!news-wrt-01.ohiordc.rr.com!news-
server.columbus.rr.com!cyclone2.kc.rr.com!news2.kc.rr.com!news-
post.tampabay.rr.com!tornado.southeast.rr.com.POSTED!53ab2750!not-for-mail
From: "Al Parker" <anchor@ec.rr.com>
Newsgroups: rec.radio.amateur.homebrew
References: <4540523e.147990815@news.madasafish.com>
Subject: Re: Help Pse: DSI 5600a freq Counter
Lines: 18
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1437
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1441
Message-ID: <m%70h.13288$_u4.10923@tornado.southeast.rr.com>
Date: Thu, 26 Oct 2006 19:28:18 GMT
NNTP-Posting-Host: 66.56.253.51
X-Complaints-To: abuse@rr.com
X-Trace: tornado.southeast.rr.com 1161890898 66.56.253.51 (Thu, 26 Oct 2006
15:28:18 EDT)
NNTP-Posting-Date: Thu, 26 Oct 2006 15:28:18 EDT
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7561
```

Hi Mike,

Good luck. I just pulled out my manual, it's an original, and like you say, there's no info at all on the 10mc timebase ossc. exc. that it's "ovenized" and takes 9vdc & (I think) 5vdc inputs, and puts out 10mc. I got mine used at a hamfest probably 15 yrs ago, it was built as a kit, looking at the marks in the manual. It's worked for me since, after I did something (can't remember what) in repair.
73,
Al, W8UT
"Mike W" <rrah@pencoys.org.uk> wrote in message
news:4540523e.147990815@news.madasafish.com...
> Hi Folks, I have a need for the circuit diagram of the crystal
> timebase oscillator for the DSI 5600A frequency counter. I have
> diagrams of the main board and the display board but, as Murphys law
> states, the fault is in the bit I don't have the diagrams for. Any
> help appreciated.
> Thanks, Mike G8NXD

From -7572354616434144729
X-Google-Thread: fc2a5,76435ed3344b3c1e,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!headwall.stanford.edu!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread4.news.pas.earthlink.net.POSTED!4e73252e!not-for-mail
From: "Richard W. Solomon, W1KSZ" <w1ksz@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: WTD: QUALCOMM SYNTHESIZER BOARD (750 - 1000 MHz)
Reply-To: w1ksz@earthlink.net
Message-ID: <id82k212n2ovdt8u0kv9mobim3cj5uoik0@4ax.com>
X-Newsreader: Forte Free Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 3
Date: Thu, 26 Oct 2006 21:00:31 GMT
NNTP-Posting-Host: 24.41.20.5
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1161896431 24.41.20.5 (Thu, 26 Oct 2006 14:00:31 PDT)
NNTP-Posting-Date: Thu, 26 Oct 2006 14:00:31 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:7562

Anyone have one or know where I can get one ?

Thanks, Dick, W1KSZ

From -5176728612657212729
X-Google-Thread: fc2a5,be477d150f7a896a,start

```
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newstrans.cos.agilent.com!not-for-mail
From: "Al Lorona" <al_lorona@agilent.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Anderson Powerpoles on Front Panel
Date: Thu, 26 Oct 2006 16:03:46 -0700
Organization: None
Lines: 19
Message-ID: <1161903099.814059@newsreg.cos.agilent.com>
NNTP-Posting-Host: newsreg.cos.agilent.com
X-Trace: newstrans.cos.agilent.com 1161903827 9802 130.29.134.111 (26 Oct 2006
23:03:47 GMT)
X-Complaints-To: usenet@newstrans.cos.agilent.com
NNTP-Posting-Date: Thu, 26 Oct 2006 23:03:47 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Cache-Post-Path: newsreg.cos.agilent.com!unknown@scs1nai138120.scs.agilent.com
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7563
```

Hi, Everybody,

I am interested to hear how you have solved the problem of panel-mounting
Anderson Powerpole connectors.

I have already ruled out the Anderson 4-pole "Powerpole Pak" connectors. Too
bulky. Don't need four. Just need two. I know about these. I am interested
in other solutions.

Thanks very much.

Regards,

Al W6LX

```
From 4222623428824720999
X-Google-Thread: fc2a5,801b86418a42e184
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!newsfeed.stanford.edu!
sn-xt-sjc-02!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-
mail
```

From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Amplifier output matching
Date: Thu, 26 Oct 2006 16:11:09 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12k2g4doc45jid1@corp.supernews.com>
References: <12jv656e84fgeeb@corp.supernews.com>
<1161797115.954756.14850@e3g2000cwe.googlegroups.com>
<12jva3hp0qkbef@corp.supernews.com>
<1161806991.334799.321720@e3g2000cwe.googlegroups.com>
<12jvn20kv9omm56@corp.supernews.com>
<1161876424.307642.174780@b28g2000cwb.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 6
Xref: g2news2.google.com rec.radio.amateur.homebrew:7564

Thanks for the correction, Tom. They really did give me a EE at one point in time, believe it or not, it's just been forever since I've had to do Real Work!
---Joel

From -652849031232984915
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-mail
From: hot-ham-and-cheese@hotmail.com
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: 26 Oct 2006 17:51:31 -0700
Organization: http://groups.google.com
Lines: 19
Message-ID: <1161910291.145244.72190@e3g2000cwe.googlegroups.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
   <1161091728.610995.236060@m7g2000cwm.googlegroups.com>
   <1161108371.016803.159340@h48g2000cwc.googlegroups.com>
   <pi9Zg.46947$nm1.8930@fed1read04>
   <1161119301.113067.200270@b28g2000cwb.googlegroups.com>
   <JpzZg.8966$Lv3.8914@newsread1.news.pas.earthlink.net>

```
   <1161399876.591042.314920@k70g2000cwa.googlegroups.com>
   <37y_g.10648$Lv3.6001@newsread1.news.pas.earthlink.net>
   <1161601254.507316.321040@f16g2000cwb.googlegroups.com>
   <1161604361.899607.251240@m7g2000cwm.googlegroups.com>
NNTP-Posting-Host: 4.225.97.140
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161910334 17741 127.0.0.1 (27 Oct 2006 00:52:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 27 Oct 2006 00:52:14 +0000 (UTC)
In-Reply-To: <1161604361.899607.251240@m7g2000cwm.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=4.225.97.140;
   posting-account=mMyuWQ0AAAANPpX1wK2NRuuQfAjm_kIo
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6135
rec.radio.amateur.homebrew:7565 rec.radio.amateur.policy:51746 rec.radio.swap:9030
```

an_old_friend wrote:
> hot-ham-and-cheese@hotmail.com wrote:
> > Slow Code wrote:
> > > hot-ham-and-cheese@hotmail.com wrote in
> > > news:1161399876.591042.314920@k70g2000cwa.googlegroups.com:
>
> > > > Looks like Bruce and Dan are back...
> > >
> > > I hope 11 meters opens up
> >
> > I'm sure that you do.
>
> indeed it is likely the sole we see SC is that we are at the bottom of
> the sunspot cyle and cb just isn't fun those ilgeal op like SC

I'm sure that he listens to 75M on shortwave and wishes he could
participate.

```
From 1300202905569639591
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
news.maxwell.syr.edu!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-
for-mail
From: Mark@kb9rqz.aprs
```

```
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: Thu, 26 Oct 2006 20:54:56 -0400
Message-ID: <g5m2k2hfv0n4o0blv6j55tcupiejhjk95j@4ax.com>
References: <1161108371.016803.159340@h48g2000cwc.googlegroups.com>
<pi9Zg.46947$nm1.8930@fed1read04>
<1161119301.113067.200270@b28g2000cwb.googlegroups.com>
<JpzZg.8966$Lv3.8914@newsread1.news.pas.earthlink.net>
<1161399876.591042.314920@k70g2000cwa.googlegroups.com>
<37y_g.10648$Lv3.6001@newsread1.news.pas.earthlink.net>
<1161601254.507316.321040@f16g2000cwb.googlegroups.com>
<1161604361.899607.251240@m7g2000cwm.googlegroups.com>
<1161910291.145244.72190@e3g2000cwe.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 23
NNTP-Posting-Date: 26 Oct 2006 23:59:48 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6136
rec.radio.amateur.homebrew:7566 rec.radio.amateur.policy:51747 rec.radio.swap:9031

On 26 Oct 2006 17:51:31 -0700, hot-ham-and-cheese@hotmail.com wrote:

>
>an_old_friend wrote:
>> hot-ham-and-cheese@hotmail.com wrote:
>> > Slow Code wrote:
>> > > hot-ham-and-cheese@hotmail.com wrote in
>> > > news:1161399876.591042.314920@k70g2000cwa.googlegroups.com:
>>
>> > > > Looks like Bruce and Dan are back...
>> > >
>> > > I hope 11 meters opens up
>> >
>> > I'm sure that you do.
>>
>> indeed it is likely the sole we see SC is that we are at the bottom of
>> the sunspot cyle and cb just isn't fun those ilgeal op like SC
>
>I'm sure that he listens to 75M on shortwave and wishes he could
>participate.
yep or that he does and that is why he refuses to give out his call
althought frankly I become increasing persaded that his call is K4YZ
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com
```

```
From 8843055242211410260
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews3.bellsouth.net.POSTED!5d6458a7!not-for-mail
From: "Jerry" <joxendi@bellsouth.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<VLS%g.19224$UG4.10081@newsread2.news.pas.earthlink.net>
<nbvvj2lkthm4n6q28i6oc97bq4150dvmba@4ax.com>
Subject: Re: Question for the group. Mainly new hams.
Lines: 93
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <oYe0h.46828$vi3.35500@bignews3.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
bhmkggakljkaanefdbdpiflmbcekedmfhojhikkbagflhcbolofglmijhflgfhoklffjfmjfojjjckhknn
famcilmjjcpaclkcoecllnnmnkojjdkamohehnohkmchjekajmppjbhmdbejnljomcjjcljgnoojlh
NNTP-Posting-Date: Thu, 26 Oct 2006 23:23:00 EDT
Organization: BellSouth Internet Group
Date: Thu, 26 Oct 2006 23:21:03 -0400
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6138
rec.radio.amateur.homebrew:7567 rec.radio.amateur.policy:51764 rec.radio.swap:9040


<Mark@kb9rqz.aprs> wrote in message
news:nbvvj2lkthm4n6q28i6oc97bq4150dvmba@4ax.com...
> On Wed, 25 Oct 2006 23:51:17 GMT, Slow Code <my.mail@no.spam> wrote:
>
>>Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
>>news:MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net:
>>
>>> Slow Code wrote:
>>>
```

>>>>>> Big Ten-Four on that Good Buddy.
>>>>> It sounds like you run a lot of 11m, not surprising considering how
>>>>> much you whine, and it's not alternator whine.
>>>>
>>>>
>>>> I only typed like because I knew you would understand that style of
>>>> communicating. So, after your license came in the mail what I
>>>> appliance did you decide to buy? MFJ? Alinco? Cobra?
>>>
>>>
>>> While you are being all holier than thou, what did you design and build
>>> for your main rig? I'm hoping to be impressed, but expecting to be
>>> disappointed.
>>>
>>> Did the code help you with the design?
>>>
>>> I took my Advanced class test down at 1919 M street 36 years ago. I had
>>> to sit at the desk and copy one solid minute out of five error free at
>>> 13WPM. I passed it on the first try. I almost failed the sending test,
>>> as I had never spent much time doing that. I had never made a code
>>> contact before my test, and I have only made a couple since.
>>>
>>> The thing about code contacts is they never seem to want to say anything
>>> beyond:
>>>
>>> WA3XXX DE W6XX RST 5NN WX FB 73 W6XX SK
>>
>>
>>Contacts like that still help maintain receiving skill. That's important
>>if you ever have to use CW to save a life.
> but it will never happen since there is no one to send the distress
> call
>>
>>SC
> http://kb9rqz.blogspot.com/

Oh, really????
How about THIS one? (QRZ) and a newstory from England?

Quote
Morse code used in rescue!

London, 20 October/GNN/ -- MARITIME AND COASTGUARD AGENCY News Release (Press Notice: 368_06) issued by The Government News Network on 20 October 2006

Yesterday afternoon just after 5.30pm Hayling Island Coastguard team member, Steve Mann, witnessed what he thought was a SOS message flashed by torchlight towards the Control Tower at Hayling Island Sailing Club. Steve responded to the SOS message by switching the lights on and off in the Control Tower.

The casualty was identified and was indeed using Morse code as he had recently transferred all of his safety equipment from his 28ft fishing vessel onto a newly acquired boat. He was running this vessel from Emsworth to Thorneham Marina, a distance of about 4 miles, when he ran aground and started to take on water. Steve Mann then alerted Solent Coastguard Marine Rescue Coordination Centre who requested the launch of the RNLI inshore and D-class lifeboats from Hayling island to the casualty who was transferred to Hayling Island Lifeboat Station, where he was checked over by a crewman who is also a paramedic. His vessel was towed back to Sparks Marina by the inshore lifeboat.

Steve Mann said afterwards, "I was absolutely amazed to see the flashed SOS message. This man was caught out on the one occasion he went to sea with absolutely no safety equipment. Even without radio communication going to sea without even a portable flare is extremely dangerous and could cost you your life."

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Seawaves Publishing
7-137 West 20th Street North Vancouver BC V7M 1Y2 Canada
14419 Greenwood Ave N Seattle WA 98113 USA

>
> --
> Posted via a free Usenet account from http://www.teranews.com
>

From 3946545541888459775
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: Thu, 26 Oct 2006 23:27:34 -0400
Message-ID: <l3v2k29bvsb2i8if1pude179mmvrspa0e7@4ax.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>

<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<VLS%g.19224$UG4.10081@newsread2.news.pas.earthlink.net>
<nbvvj2lkthm4n6q28i6oc97bq4150dvmba@4ax.com>
<oYe0h.46828$vi3.35500@bignews3.bellsouth.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 55
NNTP-Posting-Date: 27 Oct 2006 02:32:24 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6139
rec.radio.amateur.homebrew:7568 rec.radio.amateur.policy:51765 rec.radio.swap:9041

On Thu, 26 Oct 2006 23:21:03 -0400, "Jerry" <joxendi@bellsouth.net>
wrote:

>
><Mark@kb9rqz.aprs> wrote in message
>news:nbvvj2lkthm4n6q28i6oc97bq4150dvmba@4ax.com...
>> On Wed, 25 Oct 2006 23:51:17 GMT, Slow Code <my.mail@no.spam> wrote:
>>
>>>Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
>>>news:MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net:
>>>
>>>> Slow Code wrote:
>>>>
>>>>>>> Big Ten-Four on that Good Buddy.
>>>>>> It sounds like you run a lot of 11m, not surprising considering how
>>>>>> much you whine, and it's not alternator whine.
>>>>>
>>>>>
>>>>> I only typed like because I knew you would understand that style of
>>>>> communicating. So, after your license came in the mail what I
>>>>> appliance did you decide to buy? MFJ? Alinco? Cobra?
>>>>
>>>>
>>>> While you are being all holier than thou, what did you design and build
>>>> for your main rig? I'm hoping to be impressed, but expecting to be
>>>> disappointed.
>>>>
>>>> Did the code help you with the design?
>>>>
>>>> I took my Advanced class test down at 1919 M street 36 years ago. I had
>>>> to sit at the desk and copy one solid minute out of five error free at
>>>> 13WPM. I passed it on the first try. I almost failed the sending test,
>>>> as I had never spent much time doing that. I had never made a code
>>>> contact before my test, and I have only made a couple since.
>>>>
>>>> The thing about code contacts is they never seem to want to say anything
>>>> beyond:
>>>>
>>>> WA3XXX DE W6XX RST 5NN WX FB 73 W6XX SK

```
>>>
>>>
>>>Contacts like that still help maintain receiving skill.  That's important
>>>if you ever have to use CW to save a life.
>> but it will never happen since there is no one to send the distress
>> call
>>>
>>>SC
>> http://kb9rqz.blogspot.com/
>
>
>Oh, really????
>How about THIS one? (QRZ) and a newstory from England?
nothing there about RADIO still no one radio equiped to send a Radio
message of distress for hams to hear
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -7366301525699950445
X-Google-Thread: fc2a5,be31a0b727221190
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!208.49.83.146!uns-
out.usenetserver.com!news.usenetserver.com!pc02.usenetserver.com!FUSE.NET-
a2kHrUvQQWlmc!not-for-mail
Message-ID: <45418006.4080705@fuse.net>
Date: Thu, 26 Oct 2006 23:41:58 -0400
From: jawod <jawod@fuse.net>
User-Agent: Mozilla Thunderbird 1.0.2 (Macintosh/20050317)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Am transmitter - vlsi project
References: <1161881326.381418.198670@f16g2000cwb.googlegroups.com>
<1161886114.780096.19650@m7g2000cwm.googlegroups.com>
In-Reply-To: <1161886114.780096.19650@m7g2000cwm.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 41
X-Trace: 941e0454180a7ed946aee30042
Xref: g2news2.google.com rec.radio.amateur.homebrew:7569

K7ITM wrote:
> hananl wrote:
>
>>Hi,
>>I need to design an AM transmitter as a vlsi project (it needs to be
>>located on smart dust later on).
>>Does anyone have any good suggestions were to start from? I am familiar
>>with vlsi, but don't really know how to implement such a big idea, into
>>a vlsi simulation and circuit design.
>>Looking on trasmitter's schemes didn't help, 'cause that's all
>>resistors, amplifiers and capacitors. How do I translate it into vlsi
>>design?
>>Be very glad to any guidance...
>>Thanks.
>
>
> Why is this so difficult?  Just consider what an AM signal is.  Please
> note that Motorola and I'm sure others have made analog AM transmitter
> chips beginning a long time ago; they are not "VLSI" by any means.  If
> you'd like to do it more digitally, have a look at the offerings from
> folk like Analog Devices.  Look at their line of TxDACs.  Inside some
> of those chips, you'll find everything you need to make an AM
> transmitter, given a stream of words representing the modulation you
> want to apply, and then some.
>
> Is "VLSI" compatible with "smart dust"?  Is the power dissipation of a
> universal all-digital solution compatible with "smart dust"?
>
> You might do well to first list some of the key requirements:  output
> power, size, carrier frequency, modulation bandwidth...
>
> Cheers,
> Tom
>
Apologies for asking...
Please explain vlsi and smart dust to a newbie.

Thanks for taking the time.

John
AB8O


From -2585860261081501540
X-Google-Thread: fc2a5,be31a0b727221190
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 27 Oct 2006 00:00:12 -0500
Date: Thu, 26 Oct 2006 22:00:19 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
```

```
Subject: Re: Am transmitter - vlsi project
References: <1161881326.381418.198670@f16g2000cwb.googlegroups.com>
In-Reply-To: <1161881326.381418.198670@f16g2000cwb.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <QOmdnUpzcPPBD9zYnZ2dnUVZ_rudnZ2d@web-ster.com>
Lines: 30
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-Tc5ZgAamhA6qd9ixEEVUyQSK/
9BZO4UHIG6hYNSDeAfrmR2wiWmDmcbfdfm3pcJIZxVBneC0xea3SG+!Wox27C5tTXJjcKfcOf2q8I7/
oI0io7eJOO6eYshxb18l64aSnbQEQY0Pcw2/QSxad9cmuiyqz8J/!5h7T/Bi4OHvhr4VU
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7570

hananl wrote:

> Hi,
> I need to design an AM transmitter as a vlsi project (it needs to be
> located on smart dust later on).
> Does anyone have any good suggestions were to start from? I am familiar
> with vlsi, but don't really know how to implement such a big idea, into
> a vlsi simulation and circuit design.
> Looking on trasmitter's schemes didn't help, 'cause that's all
> resistors, amplifiers and capacitors. How do I translate it into vlsi
> design?
> Be very glad to any guidance...
> Thanks.
>
Please look up "cross posting" on Wikipedia, and note what they have to
say about "multiple posting".

Then if you feel the need to cross post (which would have been
appropriate here), do so.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google?  See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html


From 6861723058734273065
X-Google-Thread: fc8b1,2dd76509fb44502d
```

```
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!
not-for-mail
NNTP-Posting-Date: Fri, 27 Oct 2006 00:02:41 -0500
Date: Fri, 27 Oct 2006 01:00:47 -0400
From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.0.6) Gecko/20060730
SeaMonkey/1.0.4
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<VLS%g.19224$UG4.10081@newsread2.news.pas.earthlink.net>
<nbvvj2lkthm4n6q28i6oc97bq4150dvmba@4ax.com>
<oYe0h.46828$vi3.35500@bignews3.bellsouth.net>
In-Reply-To: <oYe0h.46828$vi3.35500@bignews3.bellsouth.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <7N2dnb_RFcRsD9zYnZ2dnUVZ_qOdnZ2d@rcn.net>
Lines: 33
NNTP-Posting-Host: 72.83.120.187
X-Trace: sv3-iGUPvp3SPOr59jddEtGJSE1Q7VxHewXOZJmFPDe68lG9II7k/AvDLlRvKNhGlm/
Afg5jndJbuE9SVJr!
nqFhxUwohbWh7mlWxAY6URR2nqrRs9GOwTGCQZygJPFLDCG7kk2bKGpo6sFTlpzQxOiRWycMOtvE!
i2Qk7BTT4f+p
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6140
rec.radio.amateur.homebrew:7571 rec.radio.amateur.policy:51770 rec.radio.swap:9047
```

Jerry wrote:

>>> Contacts like that still help maintain receiving skill. That's important
>>> if you ever have to use CW to save a life.
>> but it will never happen since there is no one to send the distress
>> call
>>> SC

>> http://kb9rqz.blogspot.com/
>
>
> Oh, really????
> How about THIS one? (QRZ) and a newstory from England?
>
>   Quote
>   Morse code used in rescue!
>
>   London, 20 October/GNN/ -- MARITIME AND COASTGUARD AGENCY News Release
> (Press Notice: 368_06) issued by The Government News Network on 20 October
> 2006
>
>   Yesterday afternoon just after 5.30pm Hayling Island Coastguard team
> member, Steve Mann, witnessed what he thought was a SOS message flashed by
> torchlight towards the Control Tower at Hayling Island Sailing Club. Steve
> responded to the SOS message by switching the lights on and off in the
> Control Tower.

I would bet that the person flashing SOS knows little, or no morse code other
than SOS.

This, as an argument for hams using CW, is kind of like "mayday" being an
argument for hams being conversant in French.

-Chuck

From 2005617085776537602
X-Google-Thread: fc2a5,2b870448415b1023
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.brightview.com!
news.brightview.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 27 Oct 2006 03:03:22 -0500
From: rrah@pencoys.org.uk (Mike W)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Help Pse: DSI 5600a freq Counter
Date: Fri, 27 Oct 2006 08:02:56 GMT
Reply-To: rrah@pencoys.org.uk
Message-ID: <4541bcfe.240868039@news.madasafish.com>
References: <4540523e.147990815@news.madasafish.com>
<1161885263.254873.3230@e3g2000cwe.googlegroups.com>
X-Newsreader: Forte Free Agent 1.21/32.243
Lines: 17
NNTP-Posting-Host: 80.189.15.41
X-Trace: sv3-tM9sp35CFZZjOtI+p7bnpTHXAC85GEQ4exv/cQ/
YH1h2aojnwMW3KL4BDIDxrItmE+SJvSNXWkIFZM8!
LjR3xGKdxz2v72y7bTT5rnU1cDprplpnVaW38rUBWEA9lZ3olLbEKiNCWb3h+wbf83qM/QRpITfT!
DfuQz4J0XUFuvFBhWz6mBGMg/iXbL4ne
X-Complaints-To: abuse@brightview.com
X-DMCA-Complaints-To: abuse@brightview.com

```
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7572

On 26 Oct 2006 10:54:23 -0700, "Telstar Electronics"
<briangriffey@sbcglobal.net> wrote:

>Mike W wrote:
>> Hi Folks, I have a need for the circuit diagram of the crystal
>> timebase oscillator for the DSI 5600A frequency counter. I have
>> diagrams of the main board and the display board but, as Murphys law
>> states, the fault is in the bit I don't have the diagrams for. Any
>> help appreciated.
>> Thanks, Mike G8NXD
>
>Can we assume you've contacted the manufacturer?
>
>www.telstar-electronics.com
>
Not Yet. I did'nt know who was the owner of the design these days,
Thankyou


From 5871410758544579079
X-Google-Thread: fc2a5,1f097a800c62fe60,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i42g2000cwa.googlegroups.com!not-for-
mail
From: "OH1GTF" <spam99@suomi24.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Double AD99XX to make IQ local oscillator. Help needed.
Date: 27 Oct 2006 03:33:23 -0700
Organization: http://groups.google.com
Lines: 25
Message-ID: <1161945203.565532.248130@i42g2000cwa.googlegroups.com>
NNTP-Posting-Host: 62.73.46.88
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161945208 10199 127.0.0.1 (27 Oct 2006 10:33:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 27 Oct 2006 10:33:28 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
X-HTTP-Via: 1.0 LASTKUA07
Complaints-To: groups-abuse@google.com
Injection-Info: i42g2000cwa.googlegroups.com; posting-host=62.73.46.88;
   posting-account=KeA5zw0AAAA9p-GA2UD_ncK8cLQmQtqO
Xref: g2news2.google.com rec.radio.amateur.homebrew:7573
```

Hi fellows!

I'm building a software defined radio that is mostly based on the "Software Defined Radios For The Masses" -articles and are at the point of designing the DDS board. I have two units of AD9954 DDS chips and my idea was to use them parallel, other one with 90 degree phase shift to generate the quadrature signal. This is my first time with DDS, so understanding the control seem to be a little bit difficult for a first timer.

Two questions to start with:

1. I suppose for proper control I need four pins connected from the DDS to the computer (through buffers) I/O update, SDIO, SCLK and Reset, am I correct?

2. Do I have to drive two SDIO serial signals separately for each DDS chip from computer so, that I can define the phase shift for the other DDS (while other one has no phase shift, obivously) ? This came to my mind since the chips don't have any addresses to indentify them.

Thanks a lot!!!

73 de Janne, OH1GTF

From -1656089407169900087
X-Google-Thread: fc2a5,801b86418a42e184
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f16g2000cwb.googlegroups.com!not-for-mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Amplifier output matching
Date: 27 Oct 2006 03:53:57 -0700
Organization: http://groups.google.com
Lines: 52
Message-ID: <1161946436.970815.32250@f16g2000cwb.googlegroups.com>
References: <12jv656e84fgeeb@corp.supernews.com>
NNTP-Posting-Host: 66.19.113.33
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161946442 14497 127.0.0.1 (27 Oct 2006 10:54:02 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 27 Oct 2006 10:54:02 +0000 (UTC)
In-Reply-To: <12jv656e84fgeeb@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98; DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f16g2000cwb.googlegroups.com; posting-host=66.19.113.33;

posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:7574

Joel Kolstad wrote:

> On a reciever, I'm using a MMIC LNA at VHF

Andy writes:

Joel, all of the advice I've read on this post is good advice, but I didn't see any reference to the Linville or Stern stability factors.

Devices, ESPECIALLY at VHF, which are matched into source and load often oscillate. Hell, they USUALLY oscillate. Hence , S12 is a major factor in these designs....

Most of the time, devices in this range must be mismatched to some degree to provide stability.

Motorola used to have an excellent App Note on amplifier matching, and the degree of mis-matching to ensure stability It was called " Effects of Y parameters" or " Calculating Stability in... " or some such, and the number was in the 100s or 200s.

If you know the Sparamters (or Y parameters, for the app note) you can easily do a Linville on the numbers to see if the LNA is unconditionally stable for all source and loads.....

It probly won't be.....

Then, you can do a Stern to see what degree of mismatching is needed to just reach the stability threshold.... If you program the equations into a computer (I use BASIC but an EXCEL spreadsheet will work well also) you can quickly decide what you want to do. Note that the amplifier configuration is the source of the parameters and not just the device. For instance, common base is often unconditionally stable while common emitter more often than not is never unconditionally stable. The S or Y parameters for the amp in these configurations show it when a Linville is applied.

It may be that optimum noise figure can't be reached with unconditional stability...... so you just do the best you can....... Personally, I've always found the best noise figure while diddling the circuit, rather than calculating it..... but that's just my own experience...

Good luck on your design. And don't get so hung up on this "maximum power transfer Thevin" stuff, since any amplifier that is Thevenin matched on it's output could only achieve 50% efficiency, and most amplifiers do a lot better than that...... for the simple reason that max power transfer isn't the main goal of an amplifier.....

Andy W4OAH   in Eureka, Texas

From 4435506919676132063
X-Google-Thread: fc2a5,be477d150f7a896a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 27 Oct 2006 05:54:56 -0500
Date: Fri, 27 Oct 2006 10:54:56 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Anderson Powerpoles on Front Panel
References: <1161903099.814059@newsreg.cos.agilent.com>
In-Reply-To: <1161903099.814059@newsreg.cos.agilent.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <eOSdnSzDT5cdeNzYnZ2dnUVZ_rudnZ2d@bright.net>
Lines: 29
NNTP-Posting-Host: 64.33.199.218
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V!Dsa6LOrIS7KmWvt3c0U/fbC/A4GAOhQGxbY925TOZT5ideu2/ijTCtUWegnAMcc191qetXBVm4RQ!
j71cUz4oiw==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7575

Can you cut a rectangular hole in the panel, slip the Powerpole
connector through (far enough so you can connect its mating plug) and
use a glob of epoxy on the back side to hold the plug to the backside of
the panel?

Scott
N0EDV

Al Lorona wrote:
> Hi, Everybody,
>
> I am interested to hear how you have solved the problem of panel-mounting
> Anderson Powerpole connectors.

>
> I have already ruled out the Anderson 4-pole "Powerpole Pak" connectors. Too
> bulky. Don't need four. Just need two. I know about these. I am interested
> in other solutions.
>
> Thanks very much.
>
> Regards,
>
> Al W6LX
>
>
>
>
>

From 2070628210376546947
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!
news02.roc.ny.POSTED!fd24bd7a!not-for-mail
From: gwatts <gwatts@frontiernet.net>
User-Agent: Mozilla Thunderbird 1.0.6 (Windows/20050716)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<VLS%g.19224$UG4.10081@newsread2.news.pas.earthlink.net>
<nbvvj2lkthm4n6q28i6oc97bq4150dvmba@4ax.com>
<oYe0h.46828$vi3.35500@bignews3.bellsouth.net>
<7N2dnb_RFcRsD9zYnZ2dnUVZ_qOdnZ2d@rcn.net>
In-Reply-To: <7N2dnb_RFcRsD9zYnZ2dnUVZ_qOdnZ2d@rcn.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 50
Message-ID: <5Am0h.4067$ya1.1370@news02.roc.ny>
X-Complaints-To: abuse-news@frontiernet.net
X-Trace:

```
52616e646f6d4956490a539f226c80f2598f08cb06bad55823b1fad3e5a51c692f864284a47a8cdd52
eac7b9b5093fdc140b81fcd00c71de7dd0758563cad8202dcfcf1a80fcee92bf3b6fa8a9b5fd2928a4
4b16eae314b8dfd322f099a2a4302fa16ed3d3bca9b7db6f1518b30c54e9ba12ce82c8e860e1ddd433
77c1d02943
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Fri, 27 Oct 2006 12:03:13 UTC
Date: Fri, 27 Oct 2006 12:03:13 GMT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6141
rec.radio.amateur.homebrew:7576 rec.radio.amateur.policy:51775 rec.radio.swap:9052

Chuck Harris wrote:
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>>>> if you ever have to use CW to save a life.
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>>> but it will never happen since there is no one to send the distress
>>> call
>>>
>>>> SC
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>>> http://kb9rqz.blogspot.com/
>>
>>
>>
>> Oh, really????
>> How about THIS one? (QRZ) and a newstory from England?
>>
>>       Quote
>>       Morse code used in rescue!
>>
>>       London, 20 October/GNN/ -- MARITIME AND COASTGUARD AGENCY News
>> Release (Press Notice: 368_06) issued by The Government News Network
>> on 20 October 2006
>>
>>       Yesterday afternoon just after 5.30pm Hayling Island Coastguard
>> team member, Steve Mann, witnessed what he thought was a SOS message
>> flashed by torchlight towards the Control Tower at Hayling Island
>> Sailing Club. Steve responded to the SOS message by switching the
>> lights on and off in the Control Tower.
>
>
> I would bet that the person flashing SOS knows little, or no morse code
> other
> than SOS.
>
> This, as an argument for hams using CW, is kind of like "mayday" being an
> argument for hams being conversant in French.
>
> -Chuck
```

Sacre bleu!

Avec des frites!

Le Grande fromage!

Over.

```
From -1861072812082488859
X-Google-Thread: fc2a5,b1f22f028436ac75,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!
trnddc07.POSTED!d89a2db8!not-for-mail
From: "Dale Parfitt" <par@parelectronics.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: QSK switching for HF Amp
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <xwn0h.3953$GJ.1983@trnddc07>
Date: Fri, 27 Oct 2006 13:07:41 GMT
NNTP-Posting-Host: 63.19.248.44
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc07 1161954461 63.19.248.44 (Fri, 27 Oct 2006 09:07:41 EDT)
NNTP-Posting-Date: Fri, 27 Oct 2006 09:07:41 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7577
```

Anyone have any sites or information on either PIN diode or reed relay fast switching for my 150W SS homebrew HF amp?
Found a few through Google but thought some of you might have already done this.

Tnx,
Dale W4OP

```
From 7859106885769419892
X-Google-Thread: fc2a5,801b86418a42e184
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.maxwell.syr.edu!sn-xt-sjc-05!sn-xt-
sjc-09!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
```

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Amplifier output matching
Date: Fri, 27 Oct 2006 09:32:01 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12k4d42693lhk35@corp.supernews.com>
References: <12jv656e84fgeeb@corp.supernews.com>
<1161946436.970815.32250@f16g2000cwb.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 8
Xref: g2news2.google.com rec.radio.amateur.homebrew:7578

Lots of good input there, Andy; I appaeciate it.

The part in question claims it is stable working into and from 50 ohms; I do put too much emphasis on matching to that somewhat arbitrary value at times.

---Joel

From 8664349150379086586
X-Google-Thread: fc2a5,be31a0b727221190
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-sjc-09!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Am transmitter - vlsi project
Date: Fri, 27 Oct 2006 09:37:30 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12k4deb7s88j829@corp.supernews.com>
References: <1161881326.381418.198670@f16g2000cwb.googlegroups.com>
<1161886114.780096.19650@m7g2000cwm.googlegroups.com> <45418006.4080705@fuse.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 20
Xref: g2news2.google.com rec.radio.amateur.homebrew:7579

"jawod" <jawod@fuse.net> wrote in message news:45418006.4080705@fuse.net...
> Please explain vlsi and smart dust to a newbie.

Think "nanites" from Star Trek: The Borg Generation.

See: http://en.wikipedia.org/wiki/Smart_dust

It's a popular research topic these days, but as far as I'm aware all the commercial applications are still nowhere near the "grain of rice" size that the proponents would like to achieve -- power sources become a real problem at that size, even if you only do need to communicate with the next node that's only, say, 10' away.

Oh... VLSI is "very large scale integration." It just indicates an IC that has "[mumble]-many million transistor," where the actual number is subjective. A 32 bit CPU is VLSI, a 74LS00 ain't.

---Joel

From -37651583194333031
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.maxwell.syr.edu!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: Fri, 27 Oct 2006 12:41:39 -0400
Message-ID: <ukd4k2pe8lj8uv9tmu16moib3293fm9igg@4ax.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<VLS%g.19224$UG4.10081@newsread2.news.pas.earthlink.net>
<nbvvj2lkthm4n6q28i6oc97bq4150dvmba@4ax.com>
<oYe0h.46828$vi3.35500@bignews3.bellsouth.net>
<7N2dnb_RFcRsD9zYnZ2dnUVZ_qOdnZ2d@rcn.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 41
NNTP-Posting-Date: 27 Oct 2006 15:46:30 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6144 rec.radio.amateur.homebrew:7580 rec.radio.amateur.policy:51784 rec.radio.swap:9057

On Fri, 27 Oct 2006 01:00:47 -0400, Chuck Harris
<cf-NO-SPAM-harris@erols.com> wrote:

>Jerry wrote:
>
>>>> Contacts like that still help maintain receiving skill. That's important
>>>> if you ever have to use CW to save a life.
>>> but it will never happen since there is no one to send the distress
>>> call
>>>> SC
>>> http://kb9rqz.blogspot.com/
>>
>>
>> Oh, really????
>> How about THIS one? (QRZ) and a newstory from England?
>>
>>   Quote
>>   Morse code used in rescue!
>>
>>   London, 20 October/GNN/ -- MARITIME AND COASTGUARD AGENCY News Release
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>> 2006
>>
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>> member, Steve Mann, witnessed what he thought was a SOS message flashed by
>> torchlight towards the Control Tower at Hayling Island Sailing Club. Steve
>> responded to the SOS message by switching the lights on and off in the
>> Control Tower.
>
>I would bet that the person flashing SOS knows little, or no morse code other
>than SOS.

indeeed in fact do we know he sent Sos as opposed to OSO

BTW If I heard ether on the Air I could respond
>
>This, as an argument for hams using CW, is kind of like "mayday" being an
>argument for hams being conversant in French.
>
>-Chuck
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From 1763339186395313826
X-Google-Thread: fc2a5,801b86418a42e184
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-

```
mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Amplifier output matching
Date: 27 Oct 2006 09:53:46 -0700
Organization: http://groups.google.com
Lines: 74
Message-ID: <1161968026.184103.133300@e3g2000cwe.googlegroups.com>
References: <12jv656e84fgeeb@corp.supernews.com>
   <1161946436.970815.32250@f16g2000cwb.googlegroups.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161968032 29801 127.0.0.1 (27 Oct 2006 16:53:52 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 27 Oct 2006 16:53:52 +0000 (UTC)
In-Reply-To: <1161946436.970815.32250@f16g2000cwb.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7581


AndyS wrote:
> Joel Kolstad wrote:
> > On a reciever, I'm using a MMIC LNA at VHF
>
> Andy writes:
>   Joel, all of the advice I've read on this post is good advice, but
> I didn't see any reference to the Linville or Stern stability factors.
>
>    Devices, ESPECIALLY at VHF, which are matched into source
> and load often oscillate.  Hell, they USUALLY oscillate.
>  Hence , S12 is a major factor in these designs....
>
>    Most of the time, devices in this range must be mismatched
> to some degree to provide stability.
>
>    Motorola used to have an excellent App Note on amplifier
> matching, and the degree of mis-matching to ensure stability
> It was called " Effects of Y parameters"  or " Calculating Stability
> in... " or some such, and the number was in the 100s or 200s.
>
>    If you know the Sparamters ( or  Y parameters, for the app note)
> you can easily do a Linville on the numbers to see if the LNA
> is unconditionally stable for all source and loads.....
>
>    It probly won't be.....
>
>    Then, you can do a Stern to see what degree of mismatching is
```

> needed to just reach the stability threshold.... If you program the equations into a computer (I use BASIC but an EXCEL spreadsheet will work well also) you can quickly decide what you want to do. Note that the amplifier configuration is the source of the parameters and not just the device. For instance, common base is often unconditionally stable while common emitter more often than not is never unconditionally stable. The S or Y parameters for the amp in these configurations show it when a Linville is applied.
>
> It may be that optimum noise figure can't be reached with unconditional stability...... so you just do the best you can....... Personally, I've always found the best noise figure while diddling the circuit, rather than calculating it..... but that's just my own experience...
>
>
> Good luck on your design. And don't get so hung up on this "maximum power transfer Thevin" stuff, since any amplifier that is Thevenin matched on it's output could only achieve 50% efficiency, and most amplifiers do a lot better than that...... for the simple reason that max power transfer isn't the main goal of an amplifier.....
>
> Andy W4OAH in Eureka, Texas

Note that the free RFSim99 can display stability circles on the Smith chart display of S11 and S22. They change as you move the cursor frequency, and redraw quickly so it's easy to check over a frequency range.

I don't know why the myth persists that you can achieve no more than 50% efficiency if a load is matched to the source impedance. A Thevenin-equivalent source does not necessarily look anything like the Thevenin circuit inside; it simply behaves WITH RESPECT TO THE LOAD in the same way (over the range of loads and outputs for which it behaves linearly, since the Thevenin model is a linear one). But that's all a red herring anyway: in an LNA, "efficiency" is probably one of the LAST things you should worry about. You should worry about noise. You should worry about stability. And you should worry about distortion. You should even worry about where you'll put it in the system. All those would normally come a long ways ahead of concerns about efficiency.

Cheers,
Tom

From -3149716492072210540
X-Google-Thread: fc2a5,801b86418a42e184
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-

```
mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Amplifier output matching
Date: 27 Oct 2006 09:58:40 -0700
Organization: http://groups.google.com
Lines: 22
Message-ID: <1161968320.516579.35900@k70g2000cwa.googlegroups.com>
References: <12jv656e84fgeeb@corp.supernews.com>
   <1161946436.970815.32250@f16g2000cwb.googlegroups.com>
   <12k4d42693lhk35@corp.supernews.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161968326 30967 127.0.0.1 (27 Oct 2006 16:58:46 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 27 Oct 2006 16:58:46 +0000 (UTC)
In-Reply-To: <12k4d42693lhk35@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7582
```

Joel Kolstad wrote:

> Lots of good input there, Andy; I appaeciate it.
>
> The part in question claims it is stable working into and from 50 ohms; I do
> put too much emphasis on matching to that somewhat arbitrary value at times.
>
> ---Joel

Put its S-parameters into a two-port instantiation in RFSim99, Joel, and you can play with matching and stability to your heart's content. It won't help you directly with noise, but if the data sheet tells you about how to match the input for lowest noise, that would be at least a good starting point for the input network. I think you posted that it's an MMIC; they often don't provide as good a set of info as do "bare" transistor data sheets. NEC, for example, seem to do a good job providing data about S-parameters versus frequency and operating conditions, and about noise figure versus input matching as well.

Cheers,
Tom

```
From 1589368960886444986
X-Google-Thread: fc2a5,1f097a800c62fe60
X-Google-Attributes: gidfc2a5,public
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: "john jardine" <john@jjdesigns.fsnet.co.uk>
Newsgroups: rec.radio.amateur.homebrew
References: <1161945203.565532.248130@i42g2000cwa.googlegroups.com>
Subject: Re: Double AD99XX to make IQ local oscillator. Help needed.
Date: Fri, 27 Oct 2006 20:52:23 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Lines: 37
Message-ID: <45425684$0$12183$88260bb3@free.teranews.com>
NNTP-Posting-Date: 27 Oct 2006 18:57:08 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7583

"OH1GTF" <spam99@suomi24.fi> wrote in message
news:1161945203.565532.248130@i42g2000cwa.googlegroups.com...

> Hi fellows!
>
> I'm building a software defined radio that is mostly based on the "Software Defined Radios For The Masses" -articles and are at the point of designing the DDS board. I have two units of AD9954 DDS chips and my idea was to use them parallel, other one with 90 degree phase shift to generate the quadrature signal. This is my first time with DDS, so understanding the control seem to be a little bit difficult for a first timer.
>
> Two questions to start with:
>
> 1. I suppose for proper control I need four pins connected from the DDS to the computer (through buffers) I/O update, SDIO, SCLK and Reset, am I correct?
>
> 2. Do I have to drive two SDIO serial signals separately for each DDS chip from computer so, that I can define the phase shift for the other DDS (while other one has no phase shift, obivously) ? This came to my mind since the chips don't have any addresses to indentify them.
>
> Thanks a lot!!!
>
> 73 de Janne, OH1GTF
>

Don't know that particular DDS but did it with two AD9832 used in a vector impedance arrangement. The master clock and serial clock/data lines were wired to both chips. Common serial data was sent to both chips but made 'valid' only for the wanted DDS by use of individual "Fsync"(?) lines. Worked no problem. Chips never got out of step. Phase could be varied at will.
john

--
Posted via a free Usenet account from http://www.teranews.com

```
From 3467990817303243188
X-Google-Thread: fc2a5,9be69cd16339f9a5,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!out02b.usenetserver.com!
news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-
out.readnews.com!postnews3.readnews.com!news.coretel.net!not-for-mail
From: "Radiosrfun" <radiosrfun@radiosrfun.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: stuff
Date: Fri, 27 Oct 2006 16:29:53 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Lines: 31
Message-ID: <45426b87$0$13830$ecde5a14@news.coretel.net>
Organization: CoreTel
NNTP-Posting-Host: 1d71191a.news.coretel.net
X-Trace: DXC=Y:MY5S8o=H<ol9?@e\1Yh9cYX6N<OEXQ;Bb4W6Io`l[69P99cZK_kK0?
8D_<:IDjR;jX@]^EU0i1;
X-Complaints-To: abuse@coretel.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:7585
```

Hi,

I am wanting to clean out some "junk" boxes of many many types of assorted parts - new, used, salvage, etc.
They're from/for Radio, TV, computer, printer, inventory buyouts, etc.

If you have any parts in mind, PLEASE let me know if in need of any. I'm planning to do some grab bags - relatively CHEAP. The only cost "I" have no control over is "shipping". Though I DO try to ship as cheap as I can and the shipper is usually up to the buyer. Insurance is required - lest you take responsibility for lost, stolen, damaged shipments.

Payments via Postal MO, Pay - Pal, Certified Bank Funds. Personal checks - allow 2 weeks to clear.

Any parts requests?

Some other things among my pile are miscellaneous gauges and colors of wire, AC line cords, hardware, etc.

Not to mention a ton of parts bought from a "closing" Radio Shack. They're going pretty cheap too - certainly cheaper than retail. You can almost get two for the price of one. I have some PC Board material as well. Most is Single sided. SPEAK UP with needs.

Thanks

Lou!

www.clfurent.com

```
From 1928880112143700846
X-Google-Thread: fc2a5,9be69cd16339f9a5
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!newsfeed.news2me.com!
newspump.sol.net!news-out.readnews.com!postnews3.readnews.com!news.coretel.net!
not-for-mail
From: "Radiosrfun" <radiosrfun@radiosrfun.com>
Newsgroups: rec.radio.amateur.homebrew
References: <45426b87$0$13830$ecde5a14@news.coretel.net>
Subject: Re: APOLOGIES AND CORRECTION -  FS - stuff
Date: Fri, 27 Oct 2006 16:32:51 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Lines: 36
Message-ID: <45426c3a$0$13825$ecde5a14@news.coretel.net>
Organization: CoreTel
NNTP-Posting-Host: 1d71191a.news.coretel.net
X-Trace: DXC=lFTC9JYRH`amiGhUb@54`dcYX6N<OEXQkBb4W6Io`l[fZW367JjhKUk?
8D_<:IDjRkAiVKFChEi>f
X-Complaints-To: abuse@coretel.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:7586
```

my apologies, header should have been FS - stuff.

"Radiosrfun" <radiosrfun@radiosrfun.com> wrote in message news:45426b87$0$13830$ecde5a14@news.coretel.net...

> Hi,
>
> I am wanting to clean out some "junk" boxes of many many types of assorted parts - new, used, salvage, etc.
> They're from/for Radio, TV, computer, printer, inventory buyouts, etc.
>
> If you have any parts in mind, PLEASE let me know if in need of any. I'm planning to do some grab bags - relatively CHEAP. The only cost "I" have no control over is "shipping". Though I DO try to ship as cheap as I can

> and the shipper is usually up to the buyer. Insurance is required - lest
> you take responsibility for lost, stolen, damaged shipments.
>
> Payments via Postal MO, Pay - Pal, Certified Bank Funds. Personal checks -
> allow 2 weeks to clear.
>
> Any parts requests?
>
> Some other things among my pile are miscellaneous gauges and colors of
> wire, AC line cords, hardware, etc.
> Not to mention a ton of parts bought from a "closing" Radio Shack. They're
> going pretty cheap too - certainly cheaper than retail. You can almost get
> two for the price of one. I have some PC Board material as well. Most is
> Single sided. SPEAK UP with needs.
>
> Thanks
>
> Lou!
>
> www.clfurent.com
>

From -4030244765431695346
X-Google-Thread: fc2a5,bad500f3aa10c331,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news1.google.com!news.maxwell.syr.edu!sn-xt-sjc-05!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: More on matching -- Xtal filters this time
Date: Fri, 27 Oct 2006 13:39:18 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12k4rjn1n65i834@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-Complaints-To: abuse@supernews.com
Lines: 20
Xref: g2news2.google.com rec.radio.amateur.homebrew:7587

For an IF filter, I'm planning on using a an off-the-DigiKey-shelf crystal filter. I need (well, want) to match the filter to 50 ohms.

Could someone verify I'm interpreting the data sheets & terminology correctly?

Say I'm getting an ECS-10.7-7.5A filter, data sheet here:

http://www.ecsxtal.com/pdf/mono.pdf ... I'm reading the "termination impedance" as 1800 ohms in parallel with 5pF or, at 10.7MHz, 1800 || -j2975 = 1318 - j797.2 ohms. From reading the application notes on ECS's site, the idea here is that -- for the filter to work as designed -- it wants to "see" 1318 - j797.2 ohms on both the input and output, correct?

I'm also thinking that just because the filter wants to see a certain impedance doesn't necessarily imply that the filter's own internal impedance is the complex conjugate.

Thanks,
---Joel

From -2508876214455901939
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread2.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
From: Slow Code <my.mail@no.spam>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net> <1161091728.610995.236060@m7g2000cwm.googlegroups.com> <1161108371.016803.159340@h48g2000cwc.googlegroups.com> <pi9Zg.46947$nm1.8930@fed1read04> <1161119301.113067.200270@b28g2000cwb.googlegroups.com> <JpzZg.8966$Lv3.8914@newsread1.news.pas.earthlink.net> <1161399876.591042.314920@k70g2000cwa.googlegroups.com> <37y_g.10648$Lv3.6001@newsread1.news.pas.earthlink.net> <1161601254.507316.321040@f16g2000cwb.googlegroups.com> <1161604361.899607.251240@m7g2000cwm.googlegroups.com> <1161910291.145244.72190@e3g2000cwe.googlegroups.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 29
Message-ID: <Vwx0h.347$LI4.234@newsread2.news.pas.earthlink.net>
Date: Sat, 28 Oct 2006 00:30:45 GMT
NNTP-Posting-Host: 4.227.154.108
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1161995445 4.227.154.108 (Fri, 27 Oct 2006 17:30:45 PDT)
NNTP-Posting-Date: Fri, 27 Oct 2006 17:30:45 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6147

```
rec.radio.amateur.homebrew:7588 rec.radio.amateur.policy:51845 rec.radio.swap:9072

hot-ham-and-cheese@hotmail.com wrote in
news:1161910291.145244.72190@e3g2000cwe.googlegroups.com:

>
> an_old_friend wrote:
>> hot-ham-and-cheese@hotmail.com wrote:
>> > Slow Code wrote:
>> > > hot-ham-and-cheese@hotmail.com wrote in
>> > > news:1161399876.591042.314920@k70g2000cwa.googlegroups.com:
>>
>> > > > Looks like Bruce and Dan are back...
>> > >
>> > > I hope 11 meters opens up
>> >
>> > I'm sure that you do.
>>
>> indeed it is likely the sole we see SC is that we are at the bottom of
>> the sunspot cyle and cb just isn't fun those ilgeal op like SC
>
> I'm sure that he listens to 75M on shortwave and wishes he could
> participate.


I don't do much 80 meters, not even listen much.

I enjoy satellite.  Amsat life member.

SC




From 3135589436665532924
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!
stamper.news.pas.earthlink.net!newsread2.news.pas.earthlink.net.POSTED!3dd4ce4a!
not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
From: Slow Code <my.mail@no.spam>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
```

```
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<VLS%g.19224$UG4.10081@newsread2.news.pas.earthlink.net>
<nbvvj2lkthm4n6q28i6oc97bq4150dvmba@4ax.com>
<oYe0h.46828$vi3.35500@bignews3.bellsouth.net>
<7N2dnb_RFcRsD9zYnZ2dnUVZ_qOdnZ2d@rcn.net>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 44
Message-ID: <Wwx0h.348$LI4.52@newsread2.news.pas.earthlink.net>
Date: Sat, 28 Oct 2006 00:30:46 GMT
NNTP-Posting-Host: 4.227.154.108
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1161995446 4.227.154.108 (Fri, 27 Oct
2006 17:30:46 PDT)
NNTP-Posting-Date: Fri, 27 Oct 2006 17:30:46 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6148
rec.radio.amateur.homebrew:7589 rec.radio.amateur.policy:51846 rec.radio.swap:9073

Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
news:7N2dnb_RFcRsD9zYnZ2dnUVZ_qOdnZ2d@rcn.net:

> Jerry wrote:
>
>>>> Contacts like that still help maintain receiving skill.  That's
>>>> important if you ever have to use CW to save a life.
>>> but it will never happen since there is no one to send the distress
>>> call
>>>> SC
>>> http://kb9rqz.blogspot.com/
>>
>>
>> Oh, really????
>> How about THIS one? (QRZ) and a newstory from England?
>>
>>       Quote
>>       Morse code used in rescue!
>>
>>       London, 20 October/GNN/ -- MARITIME AND COASTGUARD AGENCY News
>>       Release
>> (Press Notice: 368_06) issued by The Government News Network on 20
>> October 2006
>>
>>       Yesterday afternoon just after 5.30pm Hayling Island Coastguard
>>       team
>> member, Steve Mann, witnessed what he thought was a SOS message flashed
>> by torchlight towards the Control Tower at Hayling Island Sailing Club.
>> Steve responded to the SOS message by switching the lights on and off
>> in the Control Tower.
>
> I would bet that the person flashing SOS knows little, or no morse code
> other than SOS.
>
```

> This, as an argument for hams using CW, is kind of like "mayday" being
> an argument for hams being conversant in French.
>
> -Chuck

Spoken like a true "I-Hate-CW" Whiner. Why you even worried about it
anyway, you don't even have a welfare license.

SC

```
From 7824863302588325623
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!
not-for-mail
NNTP-Posting-Date: Fri, 27 Oct 2006 20:47:58 -0500
Date: Fri, 27 Oct 2006 21:45:56 -0400
From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.0.6) Gecko/20060730
SeaMonkey/1.0.4
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<VLS%g.19224$UG4.10081@newsread2.news.pas.earthlink.net>
<nbvvj2lkthm4n6q28i6oc97bq4150dvmba@4ax.com>
<oYe0h.46828$vi3.35500@bignews3.bellsouth.net>
<7N2dnb_RFcRsD9zYnZ2dnUVZ_qOdnZ2d@rcn.net>
<Wwx0h.348$LI4.52@newsread2.news.pas.earthlink.net>
In-Reply-To: <Wwx0h.348$LI4.52@newsread2.news.pas.earthlink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <18SdncXAx4hSK9_YnZ2dnUVZ_tydnZ2d@rcn.net>
Lines: 26
NNTP-Posting-Host: 72.83.120.187
X-Trace: sv3-
VTzQclasWeN0Y+gVELFzyghzvq1KRO1bt1cqb7YKkuAV7kqFvR4GweEOd7GfqicPVxjmthVLD8LZScg!
en3W6CDJtI660k5FHjvaGEvYYcbg7i7VUhursIoYvzznT863S6RlbBT2QjIOlb2/HRrUhWED9MfT!
p7TtWdTmhJ/1
```

X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6149 rec.radio.amateur.homebrew:7590 rec.radio.amateur.policy:51866 rec.radio.swap:9079

Slow Code wrote:
> Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
>
>> I would bet that the person flashing SOS knows little, or no morse code
>> other than SOS.
>>
>> This, as an argument for hams using CW, is kind of like "mayday" being
>> an argument for hams being conversant in French.
>>
>> -Chuck
>
>
> Spoken like a true "I-Hate-CW" Whiner. Why you even worried about it
> anyway, you don't even have a welfare license.

Actually, I have held an advanced class ticket for more than 30 years.

I took my test at 1919 M Street, NW? Washington, DC. Under the watchful
eye of an FCC examiner. My code test came off of an old signal corps
paper tape driven code practice machine. The key they gave me to use was
from the same set.

My receiving speed was somewhere around 40wpm, and my sending sucks rope.
I never could master an Iambic keyer.

-Chuck

From -8089187437731489363
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: Fri, 27 Oct 2006 22:55:22 -0400
Message-ID: <ckh5k2t5ha18hja1s0jobp9ue03un6a2i7@4ax.com>

```
References: <pi9Zg.46947$nm1.8930@fed1read04>
<1161119301.113067.200270@b28g2000cwb.googlegroups.com>
<JpzZg.8966$Lv3.8914@newsread1.news.pas.earthlink.net>
<1161399876.591042.314920@k70g2000cwa.googlegroups.com>
<37y_g.10648$Lv3.6001@newsread1.news.pas.earthlink.net>
<1161601254.507316.321040@f16g2000cwb.googlegroups.com>
<1161604361.899607.251240@m7g2000cwm.googlegroups.com>
<1161910291.145244.72190@e3g2000cwe.googlegroups.com>
<Vwx0h.347$LI4.234@newsread2.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 32
NNTP-Posting-Date: 28 Oct 2006 02:00:14 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6150
rec.radio.amateur.homebrew:7591 rec.radio.amateur.policy:51868 rec.radio.swap:9083

On Sat, 28 Oct 2006 00:30:45 GMT, Slow Code <my.mail@no.spam> wrote:

>hot-ham-and-cheese@hotmail.com wrote in
>news:1161910291.145244.72190@e3g2000cwe.googlegroups.com:
>
>>
>> an_old_friend wrote:
>>> hot-ham-and-cheese@hotmail.com wrote:
>>> > Slow Code wrote:
>>> > > hot-ham-and-cheese@hotmail.com wrote in
>>> > > news:1161399876.591042.314920@k70g2000cwa.googlegroups.com:
>>>
>>> > > > Looks like Bruce and Dan are back...
>>> > >
>>> > > I hope 11 meters opens up
>>> >
>>> > I'm sure that you do.
>>>
>>> indeed it is likely the sole we see SC is that we are at the bottom of
>>> the sunspot cyle and cb just isn't fun those ilgeal op like SC
>>
>> I'm sure that he listens to 75M on shortwave and wishes he could
>> participate.
>
>
>I don't do much 80 meters, not even listen much.
>
>I enjoy satellite.  Amsat life member.
prove it
>
>SC
http://kb9rqz.blogspot.com/

--
```

Posted via a free Usenet account from http://www.teranews.com

```
From -1273369896008596838
X-Google-Thread: fc2a5,bad500f3aa10c331
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: More on matching -- Xtal filters this time
Date: 28 Oct 2006 03:00:03 -0700
Organization: http://groups.google.com
Lines: 70
Message-ID: <1162029602.978485.26040@h48g2000cwc.googlegroups.com>
References: <12k4rjn1n65i834@corp.supernews.com>
NNTP-Posting-Host: 66.19.112.50
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162029609 9899 127.0.0.1 (28 Oct 2006 10:00:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 28 Oct 2006 10:00:09 +0000 (UTC)
In-Reply-To: <12k4rjn1n65i834@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h48g2000cwc.googlegroups.com; posting-host=66.19.112.50;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:7592
```

Joel Kolstad wrote:
> For an IF filter, I'm planning on using a an off-the-DigiKey-shelf crystal
> filter. I need (well, want) to match the filter to 50 ohms.
>
> Could someone verify I'm interpreting the data sheets & terminology correctly?
>
> Say I'm getting an ECS-10.7-7.5A filter, data sheet here:
> http://www.ecsxtal.com/pdf/mono.pdf ... I'm reading the "termination
> impedance" as 1800 ohms in parallel with 5pF or, at 10.7MHz, 1800 || -j2975 =
> 1318 - j797.2 ohms. From reading the application notes on ECS's site, the
> idea here is that -- for the filter to work as designed -- it wants to "see"
> 1318 - j797.2 ohms on both the input and output, correct?
>
> I'm also thinking that just because the filter wants to see a certain
> impedance doesn't necessarily imply that the filter's own internal impedance
> is the complex conjugate.
>
> Thanks,
> ---Joel

Andy writes:

Joel, whenever I put in a Xtal filter, I make a parallel tank on the input and output so I can tune the reactance of the tank to minimize the ripple in the filter. This is usually part of the source amp, anyway, and having a high Q tank on the output is only a couple more parts.

You are correct in that the filter "wants" an 1800 ohm source and load resistance. This can be achieved by impedance matching, or by termination resistors (whilch will lose a lot of your power). It is good for the entire termination to be the input of the next device, transformed up or down.

The same can be done with the source impedance. However, the source may not like the Xtal filter as a load, since, even tho you may have the transformation exactly right, the load presented to the source is very complex, and may be very high (or low) as soon as you leave the xtal filter bandpass frequency..... Consequently , I have always used a load resistor in the output of the source amplifier, either as part of the coil Q, or as a fixed value resistor ...... just to keep the load from going very very high outside of the bandpass and making the source amplifier go unstable......Sure, I lose a bit of gain, but a stable amp is more important than an extra few db of gain....

Finally, the last adjustment is made by sweeping the bandpass while diddling the input and output tuning until the flattest response is noted, or at least the response the manufacturer specifies...... I peak the response at the center of the banpass first, then sweep back and forth to get a flatter response. Usually the peaking at the center is very close, tho..and if you have no way to sweep, it will probly work well for voice type signals... With data signals, well, it just depends.....

It may be useful to build a little jig to test the filter in, using fixed resistors for source and load, and parallel tanks on both sides, just to see if the filter does what you think it does. There is

a lot of loss here, but you would only be looking for the response. If you don't have a sweeper, maybe you can just rock the generator back and forth with one hand while diddling the tanks with the other......

Good luck..

Andy W4OAH

From -2042298533050735144

X-Google-Thread: fc2a5,bad500f3aa10c331
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news2.google.com!news.maxwell.syr.edu!
newscon02.news.prodigy.net!prodigy.net!wns14feed!worldnet.att.net!
attbi_s22.POSTED!53ab2750!not-for-mail
From: "William E. Sabin" <w.sabin@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <12k4rjn1n65i834@corp.supernews.com>
<1162029602.978485.26040@h48g2000cwc.googlegroups.com>
Subject: Re: More on matching -- Xtal filters this time
Lines: 38
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <p9I0h.1038601$084.340580@attbi_s22>
NNTP-Posting-Host: 12.217.178.216
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1162038997 12.217.178.216 (Sat, 28 Oct 2006 12:36:37 GMT)
NNTP-Posting-Date: Sat, 28 Oct 2006 12:36:37 GMT
Organization: AT&T ASP.att.net
Date: Sat, 28 Oct 2006 12:36:38 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7593

"AndyS" <andysharpe@juno.com> wrote in message
news:1162029602.978485.26040@h48g2000cwc.googlegroups.com...
>
> Joel Kolstad wrote:
>> For an IF filter, I'm planning on using a an off-the-DigiKey-shelf
>> crystal
>> filter. I need (well, want) to match the filter to 50 ohms.
>>
>> Could someone verify I'm interpreting the data sheets & terminology
>> correctly?
>>
>
>   The same can be done with the source impedance. However,
> the source may not like the Xtal filter as a load, since, even tho you
> may have the transformation exactly right, the load presented to
> the source is very complex, and may be very high (or low) as soon
> as you leave the xtal filter bandpass frequency..... Consequently ,
> I have always used a load resistor in the output of the source
> amplifier,   either as part of the coil Q, or as a fixed value resistor
> ...... just to
> keep the load from going very very high outside of the bandpass
> and making the source amplifier go unstable......Sure, I lose a bit
> of gain, but a stable amp is more important than an extra few db
> of gain....
>

A large increase in a receiver amplifier load impedance just outside the passband of a crystal filter (or other types of filter) can cause adjacent channel susceptibility. The network between the amplifier and the filter should be designed to prevent this occurrence. There are networks that can reverse this effect, so the impedance drops instead of increasing. Simulations and impedance measurements can verify.

Bill W0IYH

```
From -7940855124623695800
X-Google-Thread: fc2a5,bad500f3aa10c331
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-
mail
From: "AndyS" <andysharpe@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: More on matching -- Xtal filters this time
Date: 28 Oct 2006 06:46:51 -0700
Organization: http://groups.google.com
Lines: 28
Message-ID: <1162043211.584437.199470@b28g2000cwb.googlegroups.com>
References: <12k4rjn1n65i834@corp.supernews.com>
   <1162029602.978485.26040@h48g2000cwc.googlegroups.com>
   <p9I0h.1038601$084.340580@attbi_s22>
NNTP-Posting-Host: 66.19.113.193
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162043231 21856 127.0.0.1 (28 Oct 2006 13:47:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 28 Oct 2006 13:47:11 +0000 (UTC)
In-Reply-To: <p9I0h.1038601$084.340580@attbi_s22>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98;
DigExt),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=66.19.113.193;
   posting-account=LHyg0gwAAAAkg3esUpLjjaTnM8kc4Dkg
Xref: g2news2.google.com rec.radio.amateur.homebrew:7594
```

William E. Sabin wrote:

> "AndyS" <andysharpe@>
> A large increase in a receiver amplifier load impedance just outside the passband of a crystal filter (or other types of filter) can cause adjacent channel susceptibility. The network between the amplifier and the filter should be designed to prevent this occurrence. There are networks that can reverse this effect, so the impedance drops instead of increasing. Simulations and impedance measurements can verify.

>
> Bill W0IYH

Andy comments:

A good point. But I am not aware of any passive networks than
can roll the impedance off (or bring it up) fast enough to handle
the adjacent channel problem. Adjacent channels are usually
(in my experience) only a few Khz away while the xtal filter is
usually many Mhz, and a passive network just doesn't change
the impedance that quickly. For those problems, I have always
had to go to a passive resistor source, such as a collector resistor,
or use a coil with a Q low enough to provide the same effect.

If I am incorrect in this, could you please elaborate on what
passive matching circuit you are reccommending. ?

Andy W4OAH

From 3849901819825767033
X-Google-Thread: 108122,e9711cbb82f0c057,start
X-Google-Thread: 114aac,e9711cbb82f0c057,start
X-Google-Thread: fc2a5,e9711cbb82f0c057,start
X-Google-Thread: fcc6e,e9711cbb82f0c057,start
X-Google-Attributes: gid108122,gid114aac,gidfc2a5,gidfcc6e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone.austin.rr.com!news.rr.com!
tornado.texas.rr.com.POSTED!53ab2750!not-for-mail
From: "Roadrunner NNTP" <noone@nowhere.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.shortwave,rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Response to SC
Lines: 462
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <MzK0h.33021$ta3.31232@tornado.texas.rr.com>
Date: Sat, 28 Oct 2006 15:21:16 GMT
NNTP-Posting-Host: 71.40.249.76
X-Complaints-To: abuse@rr.com
X-Trace: tornado.texas.rr.com 1162048876 71.40.249.76 (Sat, 28 Oct 2006 10:21:16 CDT)
NNTP-Posting-Date: Sat, 28 Oct 2006 10:21:16 CDT
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.equipment:6749
rec.radio.shortwave:56906 rec.radio.amateur.homebrew:7595
rec.radio.amateur.antenna:20701

I've had enough of SC in newsgroups!

Please don't answer his flaming posts. I would like for my 14 amateur radio operator girl child (who is working on her code) to be able to use newsgroups without this abuse. We should not have to put up with it either.

Copy and forward the following to abuse@earthlink.net. They should be able to identify him from the headers and their logs.

Dear Earthlink Abuse . . .

Please get this clown off of usenet. There are several hobby groups where he posts regularly his inflammatory material, often with profanities. Our kids who are in the hobby certainly don't need to be exposed to this stuff.

Thanks.

Long time internet user and parent.

Path:
be1.texas.rr.com!cyclone.austin.rr.com!news.rr.com!border2.nntp.dca.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail

Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.scanner,rec.radio.swap

Subject: Stamp collecting doesn't require taking a code test.

From: Slow Code <my.mail@no.spam>

Organization: None

User-Agent: Xnews/5.04.25

Lines: 3

Message-ID: <Xwx0h.349$LI4.140@newsread2.news.pas.earthlink.net>

Date: Sat, 28 Oct 2006 00:30:47 GMT

NNTP-Posting-Host: 4.227.154.108

X-Complaints-To: abuse@earthlink.net

X-Trace: newsread2.news.pas.earthlink.net 1161995447 4.227.154.108 (Fri, 27 Oct 2006 17:30:47 PDT)

NNTP-Posting-Date: Fri, 27 Oct 2006 17:30:47 PDT

Xref: be1.texas.rr.com rec.radio.amateur.antenna:257939 rec.radio.amateur.policy:343886 rec.radio.scanner:266398 rec.radio.swap:457098

Maybe you people could try stamp collecting.

SC

Path: be1.texas.rr.com!cyclone.austin.rr.com!news.rr.com!border2.nntp.dca.giganews.com!nntp.giganews.com!nntp1.phx1.gblx.net!nntp.gblx.net!nntp.gblx.net!newsfeed.news2me.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread2.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail

Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.swap

Subject: VE's should be allowed to use a cattle prod to make people take a code test.

From: Slow Code <my.mail@no.spam>

Organization: None

User-Agent: Xnews/5.04.25

Lines: 5

Message-ID: <D6c0h.19671$UG4.17151@newsread2.news.pas.earthlink.net>

Date: Fri, 27 Oct 2006 00:09:07 GMT

NNTP-Posting-Host: 4.254.227.60

X-Complaints-To: abuse@earthlink.net

X-Trace: newsread2.news.pas.earthlink.net 1161907747 4.254.227.60 (Thu, 26 Oct 2006 17:09:07 PDT)

NNTP-Posting-Date: Thu, 26 Oct 2006 17:09:07 PDT

Xref: be1.texas.rr.com rec.radio.amateur.antenna:257845 rec.radio.amateur.policy:343742 rec.radio.swap:457040

And if they fail the code test they get zapped again.

Bringing back 'spark' will be good for ham radio.

Path: be1.texas.rr.com!news-wrt-01.tampabay.rr.com!news-wrt-01.southeast.rr.com!news-feed-01.southeast.rr.com!news.rr.com!cycny01.gnilink.net!peer01.west.cox.net!cox.net!newscon02.news.prodigy.net!prodigy.net!border1.nntp.dca.giganews.com!nntp.giganews.com!postnews.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread2.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail

Newsgroups: rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.swap

Subject: Re: I don't remember horse and buggy, outhouses, or churning butter

From: Slow Code <my.mail@no.spam>

References: <gUx%g.12447$Lv3.2784@newsread1.news.pas.earthlink.net> <1161746253.858141.126300@m73g2000cwd.googlegroups.com> <5e980$453f9e94$45011502$31488@KNOLOGY.NET>

Organization: None

User-Agent: Xnews/5.04.25

Lines: 23

Message-ID: <OLS%g.19218$UG4.1065@newsread2.news.pas.earthlink.net>

Date: Wed, 25 Oct 2006 23:51:10 GMT

NNTP-Posting-Host: 4.227.154.38

X-Complaints-To: abuse@earthlink.net

X-Trace: newsread2.news.pas.earthlink.net 1161820270 4.227.154.38 (Wed, 25 Oct 2006 16:51:10 PDT)

NNTP-Posting-Date: Wed, 25 Oct 2006 16:51:10 PDT

Xref: be1.texas.rr.com rec.radio.amateur.policy:343846 rec.radio.amateur.antenna:257917 rec.radio.swap:457083

lazy ass Mike "amdx" <amdx@knology.net> wrote in

news:5e980$453f9e94$45011502$31488@KNOLOGY.NET:

>

>> Slow Code wrote:

>

>>> New hams just don't appreciate things anymore.

>

> I don't remember,

> cutting wood for winter, foraging the woods for berries,

> turning the crank on a model T, building a spear to kill a deer,

> washing my clothes in the river, making candles to light the night.

> And I do appreciate that I don't have to do these things anymore.

>   Mike

Right, and why homebrew anymore when you can call HRO or AES and buy your

appliance off the shelf.

73,

Back to my CW and projects.

SC

SC

Path:
be1.texas.rr.com!news-wrt-01.tampabay.rr.com!news-wrt-01.southeast.rr.com!news-
feed-01.southeast.rr.com!news.rr.com!cycny01.gnilink.net!peer01.west.cox.net!
cox.net!newscon02.news.prodigy.net!prodigy.net!border1.nntp.dca.giganews.com!
nntp.giganews.com!postnews.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-
pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail

Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.swap

Subject: Re: I don't remember horse and buggy, outhouses, or churning butter

From: Slow Code <my.mail@no.spam>

References: <gUx%g.12447$Lv3.2784@newsread1.news.pas.earthlink.net>
<1161746253.858141.126300@m73g2000cwd.googlegroups.com>
<5e980$453f9e94$45011502$31488@KNOLOGY.NET>

Organization: None

User-Agent: Xnews/5.04.25

Lines: 23

Message-ID: <OLS%g.19218$UG4.1065@newsread2.news.pas.earthlink.net>

Date: Wed, 25 Oct 2006 23:51:10 GMT

NNTP-Posting-Host: 4.227.154.38

X-Complaints-To: abuse@earthlink.net

X-Trace: newsread2.news.pas.earthlink.net 1161820270 4.227.154.38 (Wed, 25 Oct 2006 16:51:10 PDT)

NNTP-Posting-Date: Wed, 25 Oct 2006 16:51:10 PDT

Xref: be1.texas.rr.com rec.radio.amateur.policy:343846 rec.radio.amateur.antenna:257917 rec.radio.swap:457083

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> washing my clothes in the river, making candles to light the night.

> And I do appreciate that I don't have to do these things anymore.

>   Mike

Right, and why homebrew anymore when you can call HRO or AES and buy your

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73,

Back to my CW and projects.

SC

Path:
be1.texas.rr.com!cyclone.austin.rr.com!news.rr.com!border2.nntp.dca.giganews.com!
nntp.giganews.com!news.maxwell.syr.edu!elnk-pas-nf1!newsfeed.earthlink.net!
stamper.news.pas.earthlink.net!newsread2.news.pas.earthlink.net.POSTED!3dd4ce4a!
not-for-mail

Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.swap,rec.radio.shortwave

Subject: Re: Is the code requirement really keeping good people out of ham radio?

From: Slow Code <my.mail@no.spam>

References: <1158527339.352992.28170@i42g2000cwa.googlegroups.com>
<bhGPg.9337$v%4.106@newsread1.news.pas.earthlink.net>
<c3iug29tid5kod1f1olqktlvn5kkicgg7j@4ax.com> <450FE04F.7060501@fuse.net>
<ia79h21f1uhjc1pd68ud3j86nbmlnemdvi@4ax.com>
<b3_Rg.1384$Y24.335@newsread4.news.pas.earthlink.net>
<ltvgh21b35rlg7smc8o5n2509m34afg1pk@4ax.com>
<HJednVoOhasYvYTYnZ2dnUVZ_uudnZ2d@comcast.com>
<1161835676.853678.129230@i3g2000cwc.googlegroups.com>
<n1g0k2h8kugbpj65vjk8fc96uk5hsl70k8@4ax.com>

Organization: None

User-Agent: Xnews/5.04.25

Lines: 14

Message-ID: <76c0h.19656$UG4.15739@newsread2.news.pas.earthlink.net>

Date: Fri, 27 Oct 2006 00:08:35 GMT

NNTP-Posting-Host: 4.254.227.60

X-Complaints-To: abuse@earthlink.net

X-Trace: newsread2.news.pas.earthlink.net 1161907715 4.254.227.60 (Thu, 26 Oct 2006 17:08:35 PDT)

NNTP-Posting-Date: Thu, 26 Oct 2006 17:08:35 PDT

Xref: be1.texas.rr.com rec.radio.amateur.antenna:257842
rec.radio.amateur.policy:343730 rec.radio.swap:457038
rec.radio.shortwave:537344

Opus- <jbuchy@shaw.ca> wrote in

news:n1g0k2h8kugbpj65vjk8fc96uk5hsl70k8@4ax.com:

> Don't you have some offs to fuck?
>

Why do no-coders always break down in the middle of an argument and start

spewing profanities? I just don't understand it. It must be do to their

limited mental abilities.

Opus being a Cannuk probably doesn't help either.

SC

Path:
be1.texas.rr.com!cyclone.austin.rr.com!news.rr.com!border2.nntp.dca.giganews.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail

Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.misc,rec.radio.amateur.policy

Subject: If you had to learn morse code for a ham license would you stay on
CB?

From: Slow Code <my.mail@no.spam>

Organization: None

User-Agent: Xnews/5.04.25

Lines: 8

Message-ID: <Lwx0h.339$LI4.180@newsread2.news.pas.earthlink.net>

Date: Sat, 28 Oct 2006 00:30:35 GMT

NNTP-Posting-Host: 4.227.154.108

X-Complaints-To: abuse@earthlink.net

X-Trace: newsread2.news.pas.earthlink.net 1161995435 4.227.154.108 (Fri, 27 Oct 2006 17:30:35 PDT)

NNTP-Posting-Date: Fri, 27 Oct 2006 17:30:35 PDT

Xref: be1.texas.rr.com rec.radio.amateur.equipment:209077 rec.radio.amateur.misc:299083 rec.radio.amateur.policy:343877

5wpm ain't really learning it. I can fart 5 wpm.

Lets kick the requirement up there to between 13 and 20 wpm for all

classes. And no-codes that haven't passed it after a year get booted which

will help clean up the repeaters.

SC

m.News. EarthLink Members should use their best judgment when posting to any newsgroup. Many groups have charters, published guidelines, FAQs, or "community standards" describing what is and is not considered appropriate. Usenet can be a valuable resource if used properly. The continued posting of off-topic articles is prohibited. Commercial advertisements are off-topic in most newsgroups, especially regional groups not specifically named for such. The presence of such articles in a group is not indicative of the group's "intended" use. Please familiarize yourself with basic Usenet netiquette

before posting to a newsgroup.

EarthLink considers "multiposting" to 10 or more groups within a two week sliding window to be excessive. EarthLink servers currently limit the number of allowable "cross-posts" to 9.

EarthLink Members may not cancel messages other than their own messages. A Member may cancel posts forged in that Member's name. We may cancel any postings which violate this AUP.

```
From -2529839147200225882
X-Google-Thread: 108122,e9711cbb82f0c057
X-Google-Thread: 114aac,e9711cbb82f0c057
X-Google-Thread: fc2a5,e9711cbb82f0c057
X-Google-Thread: fcc6e,e9711cbb82f0c057
X-Google-Attributes: gid108122,gid114aac,gidfc2a5,gidfcc6e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 28 Oct 2006 10:56:56 -0500
Date: Sat, 28 Oct 2006 11:56:56 -0400
From: Old Time Ham <old_fart@curmudgeons.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.equipment,rec.radio.shortwave,rec.radio.amateur.homebrew,rec.rad
io.amateur.antenna
Subject: Re: Response to SC
References: <MzK0h.33021$ta3.31232@tornado.texas.rr.com>
In-Reply-To: <MzK0h.33021$ta3.31232@tornado.texas.rr.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <WKGdnWtkRP5V4N7YnZ2dnUVZ_r6dnZ2d@comcast.com>
Lines: 28
NNTP-Posting-Host: 68.37.243.231
X-Trace: sv3-B8LrBdGv3ekc2f9j6SycV3k0iLQJvEBGmtjPf+sZvlEidt97EHOS65EjrRTcTcKpxl/
F0zutZOyCf46!
MssDDnz9aJ3Rvt0Mm7NQYS5en45+eknE1u6A98mtcKfI8fYiswI2ElaEzKI1LpDJlI2gIxv5O2WB!
HjxZZxQwIU3jMTR762Rp
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.equipment:6750
rec.radio.shortwave:56910 rec.radio.amateur.homebrew:7596
rec.radio.amateur.antenna:20702
```

Roadrunner NNTP wrote:
> I've had enough of SC in newsgroups!
>
> Please don't answer his flaming posts. I would like for my 14 amateur radio
> operator girl child (who is working on her code) to be able to use
> newsgroups without this abuse. We should not have to put up with it either.
>
> Copy and forward the following to abuse@earthlink.net. They should be able
> to identify him from the headers and their logs.
>
>
> Dear Earthlink Abuse . . .
>
>
>
> Please get this clown off of usenet. There are several hobby groups where
> he posts regularly his inflammatory material, often with profanities. Our
> kids who are in the hobby certainly don't need to be exposed to this stuff.
>
>
>
> Thanks.
>
>

It appears to me the only profanity was directed AT Slow Code. I am sure
Earthlink will give your (anonymous) complaint the attention it
deserves. You have elevated childish whining to a new level!

```
From 2363220514885626092
X-Google-Thread: 108122,e9711cbb82f0c057
X-Google-Thread: 114aac,e9711cbb82f0c057
X-Google-Thread: fc2a5,e9711cbb82f0c057
X-Google-Thread: fcc6e,e9711cbb82f0c057
X-Google-Attributes: gid108122,gid114aac,gidfc2a5,gidfcc6e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!newsfeed.stanford.edu!sn-xt-sjc-03!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: pltrgyst <pltrgyst@spamlessxhost.org>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.shortwave,rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Response to SC
Date: Sat, 28 Oct 2006 12:01:17 -0400
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <ljv6k21j2og31vecirirk6hfbojq5o7jke@4ax.com>
Reply-To: pltrgyst@spamlessxhost.org
References: <MzK0h.33021$ta3.31232@tornado.texas.rr.com>
X-Newsreader: Forte Agent 4.0/32.1071
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
```

```
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 14
Xref: g2news2.google.com rec.radio.amateur.equipment:6751
rec.radio.shortwave:56913 rec.radio.amateur.homebrew:7597
rec.radio.amateur.antenna:20704

On Sat, 28 Oct 2006 15:21:16 GMT, "Roadrunner NNTP" <noone@nowhere.com> wrote:

>I've had enough of SC in newsgroups!
>
>Please don't answer his flaming posts.  I would like for my 14 amateur radio
>operator girl child (who is working on her code) to be able to use
>newsgroups without this abuse.  We should not have to put up with it either.

You don't. Use a kill file. If you don't, you have only yourself to blame.

It;s much less expensive in the long run than screwing around with everyone's
first amendment rights.

-- Larry


From 1971646609800420113
X-Google-Thread: 108122,e9711cbb82f0c057
X-Google-Thread: 114aac,e9711cbb82f0c057
X-Google-Thread: fc2a5,e9711cbb82f0c057
X-Google-Thread: fcc6e,e9711cbb82f0c057
X-Google-Attributes: gid108122,gid114aac,gidfc2a5,gidfcc6e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.equipment,rec.radio.shortwave,rec.radio.amateur.homebrew,rec.rad
io.amateur.antenna
Subject: Re: Response to SC
Date: Sat, 28 Oct 2006 12:59:37 -0400
Message-ID: <1p27k2l3881ruhd6pa6dqciqi24e7l48fm@4ax.com>
References: <MzK0h.33021$ta3.31232@tornado.texas.rr.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 24
NNTP-Posting-Date: 28 Oct 2006 16:04:35 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.equipment:6753
rec.radio.shortwave:56915 rec.radio.amateur.homebrew:7598
rec.radio.amateur.antenna:20708

On Sat, 28 Oct 2006 15:21:16 GMT, "Roadrunner NNTP"
<noone@nowhere.com> wrote:
```

```
>I've had enough of SC in newsgroups!
>
>Please don't answer his flaming posts.  I would like for my 14 amateur radio
>operator girl child (who is working on her code) to be able to use
>newsgroups without this abuse.  We should not have to put up with it either.
>
as a steady High value target of SC I can tell you he can not realy be
stoped I for one have choosen to accept his abuse in Silence having
come to agree with other in abotht the BLGT and Jewish world that
agree "silence equals death" yes you see more of this clown (and his
allies and sockpuppets since I began a campaign of resisting such
harrassment ghhe has choosen to step up the level with some goal only
he knows (if even he knows what ihis gaol is) I regret that excerising
my duty to myself myself and others like myself from this sort attack
has caused you any inconvence.

OTOH  your 14 yo needs tomlearns that the world issoemtimes a hostile
place. I uncourage you to see this as a learning experence and theach
your daughter that there are those that get  very upset over
encountering anything or anybody different
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -5783676320863640544
X-Google-Thread: fc2a5,d89a01bc389fa753,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!wn14feed!
worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: Rare Nat. 6/2 Meter VFO +  MO
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <0nM0h.371613$QM6.86179@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: 6bab6cad73cb05186f504f1cdf9af9e1
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1162056252
6bab6cad73cb05186f504f1cdf9af9e1 (Sat, 28 Oct 2006 17:24:12 GMT)
NNTP-Posting-Date: Sat, 28 Oct 2006 17:24:12 GMT
Organization: AT&T Worldnet
Date: Sat, 28 Oct 2006 17:24:12 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7599
```

A vintage, somewhat rare National 6/2 Meter VFO in very good, operating condition; see it and some more stuff at:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

Tnx heytubeguy

From -2286106008759705686
X-Google-Thread: fc2a5,bad500f3aa10c331
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!204.127.204.224.MISMATCH!wns14feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-mail
From: "William E. Sabin" <w.sabin@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <12k4rjn1n65i834@corp.supernews.com>
<1162029602.978485.26040@h48g2000cwc.googlegroups.com>
<p9I0h.1038601$084.340580@attbi_s22>
<1162043211.584437.199470@b28g2000cwb.googlegroups.com>
Subject: Re: More on matching -- Xtal filters this time
Lines: 54
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <q7O0h.121010$aJ.44385@attbi_s21>
NNTP-Posting-Host: 12.217.178.216
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1162063446 12.217.178.216 (Sat, 28 Oct 2006 19:24:06 GMT)
NNTP-Posting-Date: Sat, 28 Oct 2006 19:24:06 GMT
Organization: AT&T ASP.att.net
Date: Sat, 28 Oct 2006 19:24:06 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7600

"AndyS" <andysharpe@juno.com> wrote in message
news:1162043211.584437.199470@b28g2000cwb.googlegroups.com...
>
> William E. Sabin wrote:
>> "AndyS" <andysharpe@>
>> A large increase in a receiver amplifier load impedance just outside the
>> passband of a crystal filter (or other types of filter) can cause
>> adjacent
>> channel susceptibility. The network between the amplifier and the filter
>> should be designed to prevent this occurrence. There are networks that
>> can

>> reverse this effect, so the impedance drops instead of increasing.
>> Simulations and impedance measurements can verify.
>>
>> Bill W0IYH
>
> Andy comments:
>
>   A good point. But I am not aware of any passive networks than
> can roll the impedance off (or bring it up) fast enough to handle
> the adjacent channel problem. Adjacent channels are usually
> (in my experience) only a few Khz away while the xtal filter is
> usually many Mhz, and a passive network just doesn't change
> the impedance that quickly. For those problems, I have always
> had to go to a passive resistor source, such as a collector resistor,
> or use a coil with a Q low enough to provide the same effect.
>
>   If I am incorrect in this, could you please elaborate on what
> passive matching circuit you are reccommending. ?
>
>   Andy W4OAH

If you have the July 1970 QST there is an article starting on page 35 that discusses this situation. The load impedance at the drain of the JFET amplifier increased very rapidly just outside the passband of the xtal filter as shown in Fig 8. The network in Fig 9A inverts the impedance change as shown in Fig 9B. This approach was tested for this article. Pages 39 and 40 show the text that applies to this situation. I have confirmed this approach a few times since then. However, if a fixed resistor is used to load the drain of the JFET this effect is pretty well mitigated. A large increase in the load impedance that the amplifier transistor sees can cause the JFET drain to become overloaded just outside the passband, and I confirmed this in a homebrew receiver that used a particular xtal filter. Different filter design approaches (xtal filter black magic) might produce results somewhat different than mine, so the problem and the solution always need to be verified experimentally. In general the gain of the JFET etc. must be restricted so that drain overload is avoided at all frequencies, as the article explains. Also, if you have the 2004 ARRL Handbook, page 17.5 column one mentions a similar problem that can occur.

Bill W0IYH

```
From 2412065717019310243
X-Google-Thread: fc2a5,1f097a800c62fe60
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!peer01.cox.net!cox.net!
hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe02.lga.POSTED!
53ab2750!not-for-mail
From: sdeyoreo@hotmail.com
```

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Double AD99XX to make IQ local oscillator. Help needed.
Message-ID: <njb7k2l5vl22samqsknrcn677e9dl32j75@4ax.com>
References: <1161945203.565532.248130@i42g2000cwa.googlegroups.com>
X-Newsreader: Forte Free Agent 2.0/32.640
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 36
X-Trace:
nphhjmdkmllhpdkekannfilpcpbbolnmbckpckblafbgdajnhahnihhbkekgikcepbiejbkednfagajbfc
cehineadmdhhedjccfofacecbhpncpkldndkbkchiihgmdenfnojecgjgcfcij
NNTP-Posting-Date: Sat, 28 Oct 2006 12:30:33 MST
Date: Sat, 28 Oct 2006 15:30:40 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:7601

On 27 Oct 2006 03:33:23 -0700, "OH1GTF" <spam99@suomi24.fi> wrote:

>Hi fellows!
>
> I'm building a software defined radio that is mostly based on the
>"Software Defined Radios For The Masses" -articles and are at the point
>of designing the DDS board. I have two units of AD9954 DDS chips and
>my idea was to use them parallel, other one with 90 degree phase shift
>to generate the quadrature signal. This is my first time with DDS, so
>understanding the control seem to be a little bit difficult for a first
>timer.
>
> Two questions to start with:
>
>1. I suppose for proper control I need four pins connected from the DDS
>to the computer (through buffers) I/O update, SDIO, SCLK and Reset, am
>I correct?
>
>2. Do I have to drive two SDIO serial signals separately for each DDS
>chip from computer so, that I can define the phase shift for the other
>DDS (while other one has no phase shift, obivously) ? This came to my
>mind since the chips don't have any addresses to indentify them.
>
>Thanks a lot!!!
>
>73 de Janne, OH1GTF

I dying to know how you make out. Here's why:
I have some DDSs, AD9911, I can't get to do anything. They have the
same I/O lines: I/O update, Reset, SDIOs and SCLK. I used a BasicStamp
to control it: Reset high, SCLK it, send in data on SDIO line, then
pulse IO_Update, nothing. Used a 10 Mhz system clock from an HP
generator. Though my one problem is the AD9911 I/Os are 3.3 volts, so
I used resistor divider on the uController outputs to the AD9911 to
drop the level, maybe that has something to do with it, I'm waiting
for 3.3 - 5 v level shiftrs from Maxim to come, MAX3371.

From 7236172552388624236
X-Google-Thread: fc2a5,e9711cbb82f0c057
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 28 Oct 2006 15:01:09 -0500
Date: Sat, 28 Oct 2006 21:00:43 +0100
From: charlie <wehatespam@wymsey.co.uk>
User-Agent: Thunderbird 1.5.0.7 (X11/20060911)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Response to SC
References: <MzK0h.33021$ta3.31232@tornado.texas.rr.com>
<1p27k2l3881ruhd6pa6dqciqi24e7l48fm@4ax.com>
In-Reply-To: <1p27k2l3881ruhd6pa6dqciqi24e7l48fm@4ax.com>
X-Enigmail-Version: 0.94.1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-ID: <i8ydnSzdsYCYKt7YnZ2dnUVZ8sidnZ2d@pipex.net>
Lines: 39
NNTP-Posting-Host: 85.210.141.212
X-Trace: sv3-aguilj8tg1CNYAOxiuWze2fX0XVa9cbuT8XapQYzBU1JMdzl3gt1W/
uuJBqYit4m1DKhqOimCZeCO63!
lgtbEZPWbvJO7eC0JsZ3U9jsaGK7BnbYQQTRneHpkxHbynRuR1FKw9RaHjIzvxYNTT9n0NrZbubS!
IzWNmXkIGFaWnarFYvCYNu7Bwhw=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7602

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

Mark@kb9rqz.aprs wrote:
> On Sat, 28 Oct 2006 15:21:16 GMT, "Roadrunner NNTP"
> <noone@nowhere.com> wrote:
<SNIP>
>
> OTOH your 14 yo needs tomlearns that the world issoemtimes a hostile
> place. I uncourage you to see this as a learning experence and theach
> your daughter that there are those that get very upset over
> encountering anything or anybody different
> http://kb9rqz.blogspot.com/
>
OTOH I strongly suggest that your 14 year old is kept in ignorance
of Usenet until she chooses, as an adult, to venture into it. My 14
year old boy has access to web based groups and I know what they

are. One of the advantages of running a home network is having some control!

As to the world being hostile at times, I'm sure that your 14 year old has already worked that out and doesn't need to be exposed to the abusive behaviour and language that is so common on Usenet!

Thank the lord for kill files :)

Charlie.

- --
www.wymsey.co.uk
-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.2 (GNU/Linux)
Comment: Using GnuPG with SUSE - http://enigmail.mozdev.org

iD8DBQFFQ7brfhKqaKFAJ/YRAqvnAJ41eK1ucN42BaVvubx+RYRf/OGf9wCfajSm
adREnMfBBRRZjph8LFXQRzQ=
=haBO
-----END PGP SIGNATURE-----

From -4998178422753908909
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!
stamper.news.pas.earthlink.net!newsread2.news.pas.earthlink.net.POSTED!3dd4ce4a!
not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
From: Slow Code <my.mail@no.spam>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<VLS%g.19224$UG4.10081@newsread2.news.pas.earthlink.net>
<nbvvj2lkthm4n6q28i6oc97bq4150dvmba@4ax.com>
<oYe0h.46828$vi3.35500@bignews3.bellsouth.net>
<7N2dnb_RFcRsD9zYnZ2dnUVZ_qOdnZ2d@rcn.net>
<Wwx0h.348$LI4.52@newsread2.news.pas.earthlink.net>
<18SdncXAx4hSK9_YnZ2dnUVZ_tydnZ2d@rcn.net>
Organization: None

User-Agent: Xnews/5.04.25
Lines: 42
Message-ID: <KgS0h.729$LI4.449@newsread2.news.pas.earthlink.net>
Date: Sun, 29 Oct 2006 00:07:06 GMT
NNTP-Posting-Host: 4.228.228.238
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1162080426 4.228.228.238 (Sat, 28 Oct 2006 17:07:06 PDT)
NNTP-Posting-Date: Sat, 28 Oct 2006 17:07:06 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6157 rec.radio.amateur.homebrew:7603 rec.radio.amateur.policy:52015 rec.radio.swap:9131

Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in news:18SdncXAx4hSK9_YnZ2dnUVZ_tydnZ2d@rcn.net:

> Slow Code wrote:
>> Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
>
>>> I would bet that the person flashing SOS knows little, or no morse
>>> code other than SOS.
>>>
>>> This, as an argument for hams using CW, is kind of like "mayday" being
>>> an argument for hams being conversant in French.
>>>
>>> -Chuck
>>
>>
>> Spoken like a true "I-Hate-CW" Whiner. Why you even worried about it
>> anyway, you don't even have a welfare license.
>
> Actually, I have held an advanced class ticket for more than 30 years.
>
> I took my test at 1919 M Street, NW? Washington, DC. Under the watchful
> eye of an FCC examiner. My code test came off of an old signal corps
> paper tape driven code practice machine. The key they gave me to use
> was from the same set.
>
> My receiving speed was somewhere around 40wpm, and my sending sucks
> rope. I never could master an Iambic keyer.
>
> -Chuck

Once you master the electronic key you'll wonder how you ever got by without one. I used a straight key for years and then got an electronic one. It made code more fun. I tried a bug once, but after using the electronic key I lost my timing on the side to side stuff.

One thing for sure in the maritime story above, someone did know morse, and the rescuers probably weren't going to wait for a full message after the sos. they would start the rescue right away, they didn't need to see a message.

SC

```
From 3658728833339166919
X-Google-Thread: 108122,e9711cbb82f0c057
X-Google-Thread: 114aac,e9711cbb82f0c057
X-Google-Thread: fc2a5,e9711cbb82f0c057
X-Google-Thread: fcc6e,e9711cbb82f0c057
X-Google-Attributes: gid108122,gid114aac,gidfc2a5,gidfcc6e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.equipment,rec.radio.shortwave,rec.radio.amateur.homebrew,rec.rad
io.amateur.antenna
Subject: Re: Response to SC
From: Slow Code <my.mail@no.spam>
References: <MzK0h.33021$ta3.31232@tornado.texas.rr.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 511
Message-ID: <SgS0h.730$LI4.24@newsread2.news.pas.earthlink.net>
Date: Sun, 29 Oct 2006 00:07:14 GMT
NNTP-Posting-Host: 4.228.228.238
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1162080434 4.228.228.238 (Sat, 28 Oct
2006 17:07:14 PDT)
NNTP-Posting-Date: Sat, 28 Oct 2006 17:07:14 PDT
Xref: g2news2.google.com rec.radio.amateur.equipment:6762
rec.radio.shortwave:56933 rec.radio.amateur.homebrew:7604
rec.radio.amateur.antenna:20730
```

"Roadrunner NNTP" <noone@nowhere.com> wrote in
news:MzK0h.33021$ta3.31232@tornado.texas.rr.com:

> I've had enough of SC in newsgroups!
>
> Please don't answer his flaming posts. I would like for my 14 amateur
> radio operator girl child (who is working on her code) to be able to use
> newsgroups without this abuse. We should not have to put up with it
> either.
>
> Copy and forward the following to abuse@earthlink.net. They should be
> able to identify him from the headers and their logs.
>
>
> Dear Earthlink Abuse . . .
>
>
>
> Please get this clown off of usenet. There are several hobby groups
> where he posts regularly his inflammatory material, often with

> profanities. Our kids who are in the hobby certainly don't need to be
> exposed to this stuff.
>
>
>
> Thanks.
>
>
>
> Long time internet user and parent.
>
>
>
>
>
>
>
>
>
>
>
>
>
>
>
> Path:
> be1.texas.rr.com!cyclone.austin.rr.com!news.rr.com!border2.nntp.dca.gigan
> ews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newshub.sdsu.edu!
> elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsre
> ad2.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
>
> Newsgroups:
> rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.scanner,rec.
> radio.swap
>
> Subject: Stamp collecting doesn't require taking a code test.
>
> From: Slow Code <my.mail@no.spam>
>
> Organization: None
>
> User-Agent: Xnews/5.04.25
>
> Lines: 3
>
> Message-ID: <Xwx0h.349$LI4.140@newsread2.news.pas.earthlink.net>
>
> Date: Sat, 28 Oct 2006 00:30:47 GMT
>
> NNTP-Posting-Host: 4.227.154.108
>
> X-Complaints-To: abuse@earthlink.net
>

```
> X-Trace: newsread2.news.pas.earthlink.net 1161995447 4.227.154.108 (Fri,
> 27 Oct 2006 17:30:47 PDT)
>
> NNTP-Posting-Date: Fri, 27 Oct 2006 17:30:47 PDT
>
> Xref: be1.texas.rr.com rec.radio.amateur.antenna:257939
> rec.radio.amateur.policy:343886 rec.radio.scanner:266398
> rec.radio.swap:457098
>
>
>
> Maybe you people could try stamp collecting.
>
>
>
> SC
>
>
>
>
>
> Path:
> be1.texas.rr.com!cyclone.austin.rr.com!news.rr.com!border2.nntp.dca.gigan
> ews.com!nntp.giganews.com!nntp1.phx1.gblx.net!nntp.gblx.net!nntp.gblx.net
> !newsfeed.news2me.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.ne
> t!stamper.news.pas.earthlink.net!newsread2.news.pas.earthlink.net.POSTED!
> 3dd4ce4a!not-for-mail
>
> Newsgroups:
> rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.swap
>
> Subject: VE's should be allowed to use a cattle prod to make people take
> a code test.
>
> From: Slow Code <my.mail@no.spam>
>
> Organization: None
>
> User-Agent: Xnews/5.04.25
>
> Lines: 5
>
> Message-ID: <D6c0h.19671$UG4.17151@newsread2.news.pas.earthlink.net>
>
> Date: Fri, 27 Oct 2006 00:09:07 GMT
>
> NNTP-Posting-Host: 4.254.227.60
>
> X-Complaints-To: abuse@earthlink.net
>
> X-Trace: newsread2.news.pas.earthlink.net 1161907747 4.254.227.60 (Thu,
> 26 Oct 2006 17:09:07 PDT)
>
```

```
> NNTP-Posting-Date: Thu, 26 Oct 2006 17:09:07 PDT
>
> Xref: be1.texas.rr.com rec.radio.amateur.antenna:257845
> rec.radio.amateur.policy:343742 rec.radio.swap:457040
>
>
>
> And if they fail the code test they get zapped again.
>
>
>
> Bringing back 'spark' will be good for ham radio.
>
>
>
>
>
> Path:
> be1.texas.rr.com!news-wrt-01.tampabay.rr.com!news-wrt-01.southeast.rr.com
> !news-feed-01.southeast.rr.com!news.rr.com!cycny01.gnilink.net!peer01.wes
> t.cox.net!cox.net!newscon02.news.prodigy.net!prodigy.net!border1.nntp.dca
> .giganews.com!nntp.giganews.com!postnews.google.com!news4.google.com!news
> hub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthli
> nk.net!newsread2.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
>
> Newsgroups:
> rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.swap
>
> Subject: Re: I don't remember horse and buggy, outhouses, or churning
> butter
>
> From: Slow Code <my.mail@no.spam>
>
> References: <gUx%g.12447$Lv3.2784@newsread1.news.pas.earthlink.net>
> <1161746253.858141.126300@m73g2000cwd.googlegroups.com>
> <5e980$453f9e94$45011502$31488@KNOLOGY.NET>
>
> Organization: None
>
> User-Agent: Xnews/5.04.25
>
> Lines: 23
>
> Message-ID: <OLS%g.19218$UG4.1065@newsread2.news.pas.earthlink.net>
>
> Date: Wed, 25 Oct 2006 23:51:10 GMT
>
> NNTP-Posting-Host: 4.227.154.38
>
> X-Complaints-To: abuse@earthlink.net
>
> X-Trace: newsread2.news.pas.earthlink.net 1161820270 4.227.154.38 (Wed,
> 25 Oct 2006 16:51:10 PDT)
```

```
>
> NNTP-Posting-Date: Wed, 25 Oct 2006 16:51:10 PDT
>
> Xref: be1.texas.rr.com rec.radio.amateur.policy:343846
> rec.radio.amateur.antenna:257917 rec.radio.swap:457083
>
>
>
> lazy ass Mike "amdx" <amdx@knology.net> wrote in
>
> news:5e980$453f9e94$45011502$31488@KNOLOGY.NET:
>
>>
>
>>> Slow Code wrote:
>
>>
>
>>>> New hams just don't appreciate things anymore.
>
>>
>
>> I don't remember,
>
>> cutting wood for winter, foraging the woods for berries,
>
>> turning the crank on a model T, building a spear to kill a deer,
>
>> washing my clothes in the river, making candles to light the night.
>
>> And I do appreciate that I don't have to do these things anymore.
>
>>                                                  Mike
>
>
>
>
>
> Right, and why homebrew anymore when you can call HRO or AES and buy
> your
>
> appliance off the shelf.
>
>
>
>
>
> 73,
>
> Back to my CW and projects.
>
>
>
```

```
> SC
>
>
>
> SC
>
>
>
>
>
> Path:
> be1.texas.rr.com!news-wrt-01.tampabay.rr.com!news-wrt-01.southeast.rr.com
> !news-feed-01.southeast.rr.com!news.rr.com!cycny01.gnilink.net!peer01.wes
> t.cox.net!cox.net!newscon02.news.prodigy.net!prodigy.net!border1.nntp.dca
> .giganews.com!nntp.giganews.com!postnews.google.com!news4.google.com!news
> hub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthli
> nk.net!newsread2.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
>
> Newsgroups:
> rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.swap
>
> Subject: Re: I don't remember horse and buggy, outhouses, or churning
> butter
>
> From: Slow Code <my.mail@no.spam>
>
> References: <gUx%g.12447$Lv3.2784@newsread1.news.pas.earthlink.net>
> <1161746253.858141.126300@m73g2000cwd.googlegroups.com>
> <5e980$453f9e94$45011502$31488@KNOLOGY.NET>
>
> Organization: None
>
> User-Agent: Xnews/5.04.25
>
> Lines: 23
>
> Message-ID: <OLS%g.19218$UG4.1065@newsread2.news.pas.earthlink.net>
>
> Date: Wed, 25 Oct 2006 23:51:10 GMT
>
> NNTP-Posting-Host: 4.227.154.38
>
> X-Complaints-To: abuse@earthlink.net
>
> X-Trace: newsread2.news.pas.earthlink.net 1161820270 4.227.154.38 (Wed,
> 25 Oct 2006 16:51:10 PDT)
>
> NNTP-Posting-Date: Wed, 25 Oct 2006 16:51:10 PDT
>
> Xref: be1.texas.rr.com rec.radio.amateur.policy:343846
> rec.radio.amateur.antenna:257917 rec.radio.swap:457083
>
>
```

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>
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>>> Slow Code wrote:
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>
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>
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>
>> And I do appreciate that I don't have to do these things anymore.
>
>>   Mike
>
>
>
>
>
> Right, and why homebrew anymore when you can call HRO or AES and buy
> your
>
> appliance off the shelf.
>
>
>
>
>
> 73,
>
> Back to my CW and projects.
>
>
>
> SC
>
>
>
>
>
> Path:

```
> be1.texas.rr.com!cyclone.austin.rr.com!news.rr.com!border2.nntp.dca.gigan
> ews.com!nntp.giganews.com!news.maxwell.syr.edu!elnk-pas-nf1!newsfeed.eart
> hlink.net!stamper.news.pas.earthlink.net!newsread2.news.pas.earthlink.net
> .POSTED!3dd4ce4a!not-for-mail
>
> Newsgroups:
> rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.swap,rec.rad
> io.shortwave
>
> Subject: Re: Is the code requirement really keeping good people out of
> ham radio?
>
> From: Slow Code <my.mail@no.spam>
>
> References: <1158527339.352992.28170@i42g2000cwa.googlegroups.com>
> <bhGPg.9337$v%4.106@newsread1.news.pas.earthlink.net>
> <c3iug29tid5kod1f1olqktlvn5kkicgg7j@4ax.com> <450FE04F.7060501@fuse.net>
> <ia79h21f1uhjc1pd68ud3j86nbmlnemdvi@4ax.com>
> <b3_Rg.1384$Y24.335@newsread4.news.pas.earthlink.net>
> <ltvgh21b35rlg7smc8o5n2509m34afg1pk@4ax.com>
> <HJednVoOhasYvYTYnZ2dnUVZ_uudnZ2d@comcast.com>
> <1161835676.853678.129230@i3g2000cwc.googlegroups.com>
> <n1g0k2h8kugbpj65vjk8fc96uk5hsl70k8@4ax.com>
>
> Organization: None
>
> User-Agent: Xnews/5.04.25
>
> Lines: 14
>
> Message-ID: <76c0h.19656$UG4.15739@newsread2.news.pas.earthlink.net>
>
> Date: Fri, 27 Oct 2006 00:08:35 GMT
>
> NNTP-Posting-Host: 4.254.227.60
>
> X-Complaints-To: abuse@earthlink.net
>
> X-Trace: newsread2.news.pas.earthlink.net 1161907715 4.254.227.60 (Thu,
> 26 Oct 2006 17:08:35 PDT)
>
> NNTP-Posting-Date: Thu, 26 Oct 2006 17:08:35 PDT
>
> Xref: be1.texas.rr.com rec.radio.amateur.antenna:257842
> rec.radio.amateur.policy:343730 rec.radio.swap:457038
> rec.radio.shortwave:537344
>
>
>
> Opus- <jbuchy@shaw.ca> wrote in
>
> news:n1g0k2h8kugbpj65vjk8fc96uk5hsl70k8@4ax.com:
>
```

```
>
>
>> Don't you have some offs to fuck?
>
>>
>
>
>
>
>
> Why do no-coders always break down in the middle of an argument and
> start
>
> spewing profanities?  I just don't understand it.  It must be do to
> their
>
> limited mental abilities.
>
>
>
> Opus being a Cannuk probably doesn't help either.
>
>
>
> SC
>
>
>
>
>
> Path:
> be1.texas.rr.com!cyclone.austin.rr.com!news.rr.com!border2.nntp.dca.gigan
> ews.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newshub.sdsu.edu!
> elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsre
> ad2.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
>
> Newsgroups:
> rec.radio.amateur.equipment,rec.radio.amateur.misc,rec.radio.amateur.poli
> cy
>
> Subject: If you had to learn morse code for a ham license would you stay
> on CB?
>
> From: Slow Code <my.mail@no.spam>
>
> Organization: None
>
> User-Agent: Xnews/5.04.25
>
> Lines: 8
>
> Message-ID: <Lwx0h.339$LI4.180@newsread2.news.pas.earthlink.net>
>
```

> Date: Sat, 28 Oct 2006 00:30:35 GMT
>
> NNTP-Posting-Host: 4.227.154.108
>
> X-Complaints-To: abuse@earthlink.net
>
> X-Trace: newsread2.news.pas.earthlink.net 1161995435 4.227.154.108 (Fri,
> 27 Oct 2006 17:30:35 PDT)
>
> NNTP-Posting-Date: Fri, 27 Oct 2006 17:30:35 PDT
>
> Xref: be1.texas.rr.com rec.radio.amateur.equipment:209077
> rec.radio.amateur.misc:299083 rec.radio.amateur.policy:343877
>
>
>
>
>
> 5wpm ain't really learning it. I can fart 5 wpm.
>
>
>
> Lets kick the requirement up there to between 13 and 20 wpm for all
>
> classes. And no-codes that haven't passed it after a year get booted
> which
>
> will help clean up the repeaters.
>
>
>
> SC
>
>
>
>
>
> m.News. EarthLink Members should use their best judgment when posting to
> any newsgroup. Many groups have charters, published guidelines, FAQs, or
> "community standards" describing what is and is not considered
> appropriate. Usenet can be a valuable resource if used properly. The
> continued posting of off-topic articles is prohibited. Commercial
> advertisements are off-topic in most newsgroups, especially regional
> groups not specifically named for such. The presence of such articles in
> a group is not indicative of the group's "intended" use. Please
> familiarize yourself with basic Usenet netiquette before posting to a
> newsgroup.
>
> EarthLink considers "multiposting" to 10 or more groups within a two
> week sliding window to be excessive. EarthLink servers currently limit
> the number of allowable "cross-posts" to 9.
>
> EarthLink Members may not cancel messages other than their own messages.

> A Member may cancel posts forged in that Member's name. We may cancel
> any postings which violate this AUP.

Whaaaaaaaaaaaa!!

Have you ever sat on the toilet and tried to fart your callsign in
morse code?

You're so wound up, I bet you could fart your call at a nearly
perfect 1000Hz square wave.

SC

From 1929803798295203750
X-Google-Thread: 108122,e9711cbb82f0c057
X-Google-Thread: 114aac,e9711cbb82f0c057
X-Google-Thread: fc2a5,e9711cbb82f0c057
X-Google-Thread: fcc6e,e9711cbb82f0c057
X-Google-Attributes: gid108122,gid114aac,gidfc2a5,gidfcc6e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.aprs
Newsgroups:
rec.radio.amateur.equipment,rec.radio.shortwave,rec.radio.amateur.homebrew,rec.radio.amateur.antenna
Subject: Re: Response to SC
Date: Sat, 28 Oct 2006 20:21:49 -0400
Message-ID: <nus7k29pdmqeg8vroukcjmba8ifemqcsi5@4ax.com>
References: <MzK0h.33021$ta3.31232@tornado.texas.rr.com>
<SgS0h.730$LI4.24@newsread2.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 29
NNTP-Posting-Date: 28 Oct 2006 23:26:42 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.equipment:6763
rec.radio.shortwave:56936 rec.radio.amateur.homebrew:7605
rec.radio.amateur.antenna:20732

On Sun, 29 Oct 2006 00:07:14 GMT, Slow Code <my.mail@no.spam> wrote:

>"Roadrunner NNTP" <noone@nowhere.com> wrote in
>news:MzK0h.33021$ta3.31232@tornado.texas.rr.com:
>
>> I've had enough of SC in newsgroups!
>>
>> Please don't answer his flaming posts. I would like for my 14 amateur

```
>> radio operator girl child (who is working on her code) to be able to use
>> newsgroups without this abuse.  We should not have to put up with it

>> EarthLink Members may not cancel messages other than their own messages.
>> A Member may cancel posts forged in that Member's name. We may cancel
>> any postings which violate this AUP.
>
>
>Whaaaaaaaaaaaa!!
that is right sociopath rules don't apply to you
>
>
>Have you ever sat on the toilet and tried to fart your callsign in
>morse code?
get some thrapy
>
>You're so wound up, I bet you could fart your call at a nearly
>perfect 1000Hz square wave.
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -1576195562171058215
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!f16g2000cwb.googlegroups.com!not-for-
mail
From: "an_old_friend" <konstans@hotmail.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: 28 Oct 2006 17:30:36 -0700
Organization: http://groups.google.com
Lines: 14
Message-ID: <1162081836.634673.117810@f16g2000cwb.googlegroups.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
   <nOLWg.2685$Ka1.1928@news01.roc.ny>
   <28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
   <Z4cXg.2828$ya1.2518@news02.roc.ny>
   <ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
   <MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
   <VLS%g.19224$UG4.10081@newsread2.news.pas.earthlink.net>
   <nbvvj2lkthm4n6q28i6oc97bq4150dvmba@4ax.com>
   <oYe0h.46828$vi3.35500@bignews3.bellsouth.net>
   <7N2dnb_RFcRsD9zYnZ2dnUVZ_qOdnZ2d@rcn.net>
   <Wwx0h.348$LI4.52@newsread2.news.pas.earthlink.net>
   <18SdncXAx4hSK9_YnZ2dnUVZ_tydnZ2d@rcn.net>
   <KgS0h.729$LI4.449@newsread2.news.pas.earthlink.net>
NNTP-Posting-Host: 66.82.9.45
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1162081841 20121 127.0.0.1 (29 Oct 2006 00:30:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 29 Oct 2006 00:30:41 +0000 (UTC)
In-Reply-To: <KgS0h.729$LI4.449@newsread2.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: f16g2000cwb.googlegroups.com; posting-host=66.82.9.45;
   posting-account=5Yl6pg0AAADpwOMWiAfWEILF9IbswBYm
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6158
rec.radio.amateur.homebrew:7606 rec.radio.amateur.policy:52040 rec.radio.swap:9137


Slow Code wrote:
> Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
> news:18SdncXAx4hSK9_YnZ2dnUVZ_tydnZ2d@rcn.net:
>

>
> Once you master the electronic key you'll wonder how you ever got by
> without one.  I used a straight key for years and then got an electronic
> one.  It made code more fun.  I tried a bug once, but after using the
> electronic key I lost my timing on the side to side stuff.

meaning you can't use CW MANUALY and you demand of me




From 573705399156271934
X-Google-Thread: fc2a5,be477d150f7a896a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!aioe.org!fmmck
From: Fred McKenzie <fmmck@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Anderson Powerpoles on Front Panel
Date: Sat, 28 Oct 2006 20:47:21 -0400
Organization: Aioe.org NNTP Server
Lines: 22
Message-ID: <fmmck-3A086C.20472128102006@nntp.aioe.org>
References: <1161903099.814059@newsreg.cos.agilent.com>
NNTP-Posting-Host: 8VRLXQ27ddTmew/aaZkrQA.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: MT-NewsWatcher/3.5.2 (Intel Mac OS X)
```

```
Xref: g2news2.google.com rec.radio.amateur.homebrew:7607
```

In article <1161903099.814059@newsreg.cos.agilent.com>,
"Al Lorona" <al_lorona@agilent.com> wrote:

> I am interested to hear how you have solved the problem of panel-mounting
> Anderson Powerpole connectors.

Al-

I don't recall where I saw it, but there was an article about using the connectors that West Mountain Radio uses in their RigRunners. As I recall, the pair were soldered to a small circuit board and mounted behind a cut-out in the panel. If you can look at one of the RigRunners, it should be possible to figure out how to do it. The only problem is finding that version of the connectors. I'd try West Mountain Radio first.

I understand at least one Ham transceiver has been produced, possibly a Yaesu, with the pair mounted on the rear panel.

73,
Fred
K4DII

```
From -3651204599508132857
X-Google-Thread: fc2a5,a210f357b74d7dd,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 28 Oct 2006 22:33:51 -0500
From: Danny Richardson <n_group@k6mhe.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Crimp Tool Suggestions?
Date: Sat, 28 Oct 2006 20:33:45 -0700
Message-ID: <r688k29k59mf5vg7uj5a9s73v29uakr9l8@4ax.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 12
NNTP-Posting-Host: 68.64.59.124
X-Trace: sv3-xjqo9uTaLUSQR7K7G0OmtXNYwtachXc/
ERMFfdcc7VFghzxGkwGGxwPAmjpUDNklJwcXtSpl9IlBbnR!
ASRwZoxjBH69M3VMHFXPdFtdDC6qLkoEq1EkuABwqwJyhff5xCWxYO5SsN/aVlJWIA0PiEQehGjz!
d7haycPEHgamaMC1DJk3
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
```

properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7608

Looking for suggestions for a good crimp tool for installing coax
connectors. It will primarily for BNC connectors on RG-174, 58 and 59
cables. Although the RG-8 cable family capability would be nice too.

I do wish to avoid being a captive customer in that brand X crimp tool
only works well with brand X connectors.

And, of course, looking for the best bang for the buck.

Thanks,

Danny

From -1159223445876876634
X-Google-Thread: fc2a5,a210f357b74d7dd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!
newshosting.com!post02.iad01!not-for-mail
From: Dr. Anton T. Squeegee <SpammersBlow@dev.null>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Crimp Tool Suggestions?
Date: Sat, 28 Oct 2006 23:24:30 -0700
Message-ID: <MPG.1fade8f7dd6eb6fa989721@news.drizzle.com>
References: <r688k29k59mf5vg7uj5a9s73v29uakr9l8@4ax.com>
Organization: Blue Feather Technologies
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-15"
Content-Transfer-Encoding: 7bit
X-Newsreader: MicroPlanet Gravity v2.60
Cache-Post-Path: bubbleator.drizzle.com!unknown@mist97.drizzle.com
X-Cache: nntpcache 3.0.1 (see http://www.nntpcache.org/)
Lines: 46
X-Complaints-To: abuse@csolutions.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:7609

In article <r688k29k59mf5vg7uj5a9s73v29uakr9l8@4ax.com>,
n_group@k6mhe.com (known to some as Danny Richardson) scribed...

> Looking for suggestions for a good crimp tool for installing coax
> connectors. It will primarily for BNC connectors on RG-174, 58 and 59
> cables. Although the RG-8 cable family capability would be nice too.
>
> I do wish to avoid being a captive customer in that brand X crimp tool
> only works well with brand X connectors.
>
> And, of course, looking for the best bang for the buck.

My take is that the best possible bang for the buck, as it were, may be had by searching Greed-bay for a surplus mil-spec hex crimper, such as the Daniels Manufacturing HX-4. This particular tool has interchangeable dies to accommodate a wide variety of coaxial connectors, as well as insulated terminal lugs.

They will tend to be more expensive, even at the surplus level, than your typical made-in-taiwan Paladin (or whoever) crimper, but the Daniels tools will also be of a much higher quality. Properly cared for, they may outlast their owner.

As some examples: Item #120044919904 is for a new HX-4 frame, in its original box, with a Y193 die set, opening bid of $79. Considering that the frame alone new, from Daniels, is nearly $280, that's quite a bargain.

Granted, the Y193 die set won't be useful to you unless you're crimping contact assemblies for the D-sub coax/regular combo connectors, but it should not be hard to find appropriate die sets for whatever connectors you want to work with.

A full description of the HX-4, and a listing of common dies for it, may be found at this link:

http://tinyurl.com/yy263j

Happy hunting.

--
Dr. Anton T. Squeegee, Director, Dutch Surrealist Plumbing Institute
(Known to some as Bruce Lane, KC7GR)
http://www.bluefeathertech.com -- kyrrin a/t bluefeathertech d-o=t calm
"Salvadore Dali's computer has surreal ports..."

```
From 2992612376142303404
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 29 Oct 2006 06:42:18 -0600
Date: Sun, 29 Oct 2006 07:42:20 -0500
From: Dave <W1MCE@comcast.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.4) Gecko/20030624
Netscape/7.1 (ax)
X-Accept-Language: en-us, en
```

MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<VLS%g.19224$UG4.10081@newsread2.news.pas.earthlink.net>
<nbvvj2lkthm4n6q28i6oc97bq4150dvmba@4ax.com>
<oYe0h.46828$vi3.35500@bignews3.bellsouth.net>
<7N2dnb_RFcRsD9zYnZ2dnUVZ_qOdnZ2d@rcn.net>
<Wwx0h.348$LI4.52@newsread2.news.pas.earthlink.net>
<18SdncXAx4hSK9_YnZ2dnUVZ_tydnZ2d@rcn.net>
<KgS0h.729$LI4.449@newsread2.news.pas.earthlink.net>
<1162081836.634673.117810@f16g2000cwb.googlegroups.com>
In-Reply-To: <1162081836.634673.117810@f16g2000cwb.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <q8qdnenKcds3PNnYnZ2dnUVZ_sadnZ2d@comcast.com>
Lines: 23
NNTP-Posting-Host: 71.233.173.68
X-Trace: sv3-g4BtIUEPJLLxbmrUk0TDuefz9S9JwJqGoO6TcTTDVT7COYEBkpjs2c3CcGENHX/
R6ZJvMRkH55fWa/4!
78uQUgrB9LiB3DSymlIX4kRQtgyksxskYQnuRYCt9Dc4TtteqF2e9vJHZdXn7OuehZy8/I/dw3kX!
wCtpu5JrVwTPrhTIdW7L
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6159
rec.radio.amateur.homebrew:7610 rec.radio.amateur.policy:52129 rec.radio.swap:9165

an_old_friend

I'm very tired of your whining. No-one is demanding anything of you except to
stop whining. If you can't copy CW then give it up!

an_old_friend wrote:

> Slow Code wrote:
>
>>Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
>>news:18SdncXAx4hSK9_YnZ2dnUVZ_tydnZ2d@rcn.net:
>>
>
>
>>Once you master the electronic key you'll wonder how you ever got by

>>without one. I used a straight key for years and then got an electronic
>>one. It made code more fun. I tried a bug once, but after using the
>>electronic key I lost my timing on the side to side stuff.
>
>
> meaning you can't use CW MANUALY and you demand of me
>

From -3862450059850122131
X-Google-Thread: f64c6,3010b0fa78ab7f95
X-Google-Thread: 107ada,3010b0fa78ab7f95
X-Google-Thread: fc2a5,3010b0fa78ab7f95
X-Google-Thread: fcc6e,1cba8303f76352aa
X-Google-Thread: 10bf43,1cba8303f76352aa
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,gidfcc6e,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew,rec.radio.amate
ur.antenna,rec.radio.amateur.policy
Subject: id theft is a crime
Date: Tue, 17 Oct 2006 19:38:21 -0400
Message-ID: <s9qaj29iahgq6t2fj7nurjq5bqaes3u607@4ax.com>
References: <eduk6e$f94$1@emma.aioe.org> <4534523D.4080707@rickfrazier.com>
<lJOdnYUUm9AnBanYnZ2dnUVZ8tCdnZ2d@bt.com>
<MJdZg.10772$Y24.4999@newsread4.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 22
NNTP-Posting-Date: 17 Oct 2006 22:43:04 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com uk.radio.amateur:55213 rec.radio.amateur.misc:24227
rec.radio.amateur.homebrew:7457 rec.radio.amateur.antenna:20070
rec.radio.amateur.policy:50254

On Tue, 17 Oct 2006 23:31:56 GMT, Slow Code <my.mail@no.spam> wrote:

>"david" <david_perry@btconnect.com> wrote in
>news:lJOdnYUUm9AnBanYnZ2dnUVZ8tCdnZ2d@bt.com:
>
>> Someday, when we all pay for our posts (it's
>>> coming, believe me)
>>
>> That'll be the day when ham radio comes back to life then. Paying for
>> posts? That's paying for toilet paper on a wipe by wipe basis.
>>
>> D

>
>
>Unfortunately, the Dumb-It-Down no-code ham radio crowd are too lazy to
>wipe. They'll still hang around and the rest of us will have to smell
>the stink.
>
you are the one that refuses to wipe and it is your nose that needs it
worst since you just whine on and on
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From 2810827945149135620
X-Google-Thread: f64c6,3010b0fa78ab7f95
X-Google-Thread: 107ada,3010b0fa78ab7f95
X-Google-Thread: fc2a5,3010b0fa78ab7f95
X-Google-Thread: fcc6e,1cba8303f76352aa
X-Google-Thread: 10bf43,1cba8303f76352aa
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,gidfcc6e,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-mail
From: slow_code_bitch_boi@yahoo.com
Newsgroups:
uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew,rec.radio.amateur.antenna,rec.radio.amateur.policy
Subject: Re: MARQUEER is a crime
Date: 17 Oct 2006 17:05:45 -0700
Organization: http://groups.google.com
Lines: 31
Message-ID: <1161129945.555322.182630@b28g2000cwb.googlegroups.com>
References: <eduk6e$f94$1@emma.aioe.org><4534523D.4080707@rickfrazier.com>
<lJOdnYUUm9AnBanYnZ2dnUVZ8tCdnZ2d@bt.com>
<MJdZg.10772$Y24.4999@newsread4.news.pas.earthlink.net>
<s9qaj29iahgq6t2fj7nurjq5bqaes3u607@4ax.com>
NNTP-Posting-Host: 64.12.116.10
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161129950 12311 127.0.0.1 (18 Oct 2006 00:05:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 18 Oct 2006 00:05:50 +0000 (UTC)
In-Reply-To: <s9qaj29iahgq6t2fj7nurjq5bqaes3u607@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1; SV1; yie6),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 Turboweb [mtc-td033 8.4.1], HTTP/1.1 cache-mtc-aa06.proxy.aol.com[400C740A] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com

```
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=64.12.116.10;
   posting-account=q_ZksQ0AAAD29aXannu84dIEBSfZCiap
Xref: g2news2.google.com uk.radio.amateur:55215 rec.radio.amateur.misc:24230
rec.radio.amateur.homebrew:7458 rec.radio.amateur.antenna:20071
rec.radio.amateur.policy:50259


Mark@kb9rqz.net wrote:
> On Tue, 17 Oct 2006 23:31:56 GMT, Slow Code <my.mail@no.spam> wrote:
>
> >"david" <david_perry@btconnect.com> wrote in
> >news:lJOdnYUUm9AnBanYnZ2dnUVZ8tCdnZ2d@bt.com:
> >
> >> Someday, when we all pay for our posts (it's
> >>> coming, believe me)
> >>
> >> That'll be the day when ham radio comes back to life then. Paying for
> >> posts? That's paying for toilet paper on a wipe by wipe basis.
> >>
> >> D
> >
> >
> >Unfortunately, the Dumb-It-Down no-code ham radio crowd are too lazy to
> >wipe. They'll still hang around and the rest of us will have to smell
> >the stink.
> >
> you are the one that refuses to wipe and it is your nose that needs it
> worst since you just whine on and on

FUCK YOU AND THE WHORE THAT GAVE YOU BIRTH, MORK-QUEER!

> >SC
> http://kb9rqz.blogspot.com/
>
> --
> Posted via a free Usenet account from http://www.teranews.com




From 3084649638106015247
X-Google-Thread: f64c6,3010b0fa78ab7f95
X-Google-Thread: 107ada,3010b0fa78ab7f95
X-Google-Thread: fc2a5,3010b0fa78ab7f95
X-Google-Thread: fcc6e,1cba8303f76352aa
X-Google-Thread: 10bf43,1cba8303f76352aa
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,gidfcc6e,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew,rec.radio.amate
ur.antenna,rec.radio.amateur.policy
```

```
Subject: id theft is a crime
Date: Tue, 17 Oct 2006 20:39:11 -0400
Message-ID: <jstaj2dsgaod9jr8ku5m5kbhk9n632tnhb@4ax.com>
References: <eduk6e$f94$1@emma.aioe.org><4534523D.4080707@rickfrazier.com>
<lJOdnYUUm9AnBanYnZ2dnUVZ8tCdnZ2d@bt.com>
<MJdZg.10772$Y24.4999@newsread4.news.pas.earthlink.net>
<s9qaj29iahgq6t2fj7nurjq5bqaes3u607@4ax.com>
<1161129945.555322.182630@b28g2000cwb.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 13
NNTP-Posting-Date: 17 Oct 2006 23:43:57 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com uk.radio.amateur:55216 rec.radio.amateur.misc:24234
rec.radio.amateur.homebrew:7459 rec.radio.amateur.antenna:20073
rec.radio.amateur.policy:50267

On 17 Oct 2006 17:05:45 -0700, slow_code_bitch_boi@yahoo.com wrote:

>
>Mark@kb9rqz.net wrote:
>> On Tue, 17 Oct 2006 23:31:56 GMT, Slow Code <my.mail@no.spam> wrote:

>> you are the one that refuses to wipe and it is your nose that needs it
>> worst since you just whine on and on
>
>FUCK YOU AND THE WHORE THAT GAVE YOU BIRTH, MORK-QUEER!

no you may not have sex with me I have told and told you that
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -7621673673346410955
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!
not-for-mail
NNTP-Posting-Date: Tue, 17 Oct 2006 22:37:30 -0500
Date: Tue, 17 Oct 2006 23:36:34 -0400
From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.0.6) Gecko/20060730
SeaMonkey/1.0.4
```

```
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<kXAXg.10765$o71.3942@newsread3.news.pas.earthlink.net>   <NN-
dnexaGIaKeLPYnZ2dnUVZ_rydnZ2d@rcn.net>
<AEVYg.10362$Y24.1904@newsread4.news.pas.earthlink.net>
<1161122534.513340.243530@k70g2000cwa.googlegroups.com>
In-Reply-To: <1161122534.513340.243530@k70g2000cwa.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <RL6dncpml9TnPKjYnZ2dnUVZ_oadnZ2d@rcn.net>
Lines: 120
NNTP-Posting-Host: 72.83.120.187
X-Trace: sv3-a2kh4QEGNbiWT0/3yhazFkN6sEtJDumf4yZ2utPQQbc+/PjNUjofmoaFtJzjO/
xG2nKfQ2fcnPVjhyY!ESTCcb/d0oQZYFGsqp/
gRGnR0OGIAi5S1ypp8TnDZkOjvULRD2k240GoC6HGc4Bl3vbwyR9AhemZ!LlaAP89lvZD6
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6038
rec.radio.amateur.homebrew:7460 rec.radio.amateur.policy:50286 rec.radio.swap:8689

N2EY@AOL.COM wrote:
> Slow Code wrote:
>> Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
>> news:NN-dnexaGIaKeLPYnZ2dnUVZ_rydnZ2d@rcn.net:
>>> Slow Code wrote:
>>>> Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
>
>>>>> While you are being all holier than thou, what did you design and
>>>>> build for your main rig?  I'm hoping to be impressed, but expecting to
>>>>> be disappointed.
>
>>>>> Did the code help you with the design?
>
>>>>> I took my Advanced class test down at 1919 M street 36 years ago.  I
>>>>> had to sit at the desk and copy one solid minute out of five error
>>>>> free at 13WPM. I passed it on the first try.  I almost failed the
>>>>> sending test, as I had never spent much time doing that.  I had never
>>>>> made a code contact before my test, and I have only made a couple
>>>>> since.
>
```

>>>>> The thing about code contacts is they never seem to want to say
>>>>> anything beyond:
>
>>>>> WA3XXX DE W6XX RST 5NN WX FB 73 W6XX SK
>
> That's not the case when I operate Morse Code.

I have listened to hundreds of CW contacts, and the above is mostly the norm. I exaggerate a bit, but it is rare that anyone talks about anything other than a few very simple things. I have yet to listen to a complex conversation on CW... The most complicated thing I have heard is W1AW code practice, and some of the traffic nets.

>
>>>>> How does that help the cause of amateur radio?
>
>>>>> I have designed and built numerous rf receivers and transmitters, many
>>>>> are employed by the US Army for various uses. I have fixed many
>>>>> different radios from tube stuff through DSP driven affairs.
>
>>>>> How exactly did the code help me to do this?
>
>>>>> For me code was a means to an end. I wanted my license, so I learned
>>>>> the code.
>
>>>>> There were plenty of rude, profane, and generally unpleasant hams on
>>>>> the air back when all had to pass the test in the offices of the FCC.
>
> I don't remember that at all.

Well, you wouldn't if you spent all of your time on CW. Things are very polite on those subbands. If however, you ever listened to 20 meters around 14.313, you might have a different idea of what ham radio was about. For some reason that frequency was full of profane garbage mouthed hams, and lots of infighting in the '70s and '80s.

>
>>>>> I haven't noticed that things are any worse now. About the only real
>>>>> difference is in the quality of the gear folks are running. It is
>>>>> much better than the crappy stuff that was on the air back in the
>>>>> early 70's.
>
> There were good and bad rigs then as well as now.

Perhaps, but nothing like some of the very cheap sweep tube transceivers of the late 1960's, and early '70's. Swans that drifted furiously, and practically invented the term TVI...

What are the bad HF SSB rigs of today? I would bet that even the absolute worst is cleaner than anything that was available in the '60's, and '70's... If only because the regulations got tighter on spurious emissions from new gear.

...
>>> Even 34 years ago, there were study guides that had questions from the
>>> pool used by the FCC. If you could memorize the answers to those
>>> questions, you were virtually assured of passing. I used the ARRL
>>> handbook as my guide.
>
> Do you mean the License Manual?

Nope, I did my Advanced from basic principles. I used the ARRL Radio Amateur's Handbook as my guide to rules and regulations. The technical side of my studying came from the handbook, and a variety of other radio and engineering sources.

>
> It did not have the exact questions and answers in it.

I looked at friend's copy of one of the the license manuals that was available after my test, and the questions and answers were very close. It was nothing like the manuals that are available today, but still so close as to be a cheat.

>
>>> You didn't answer my questions about the home brew rig you are using.
>>>
>> Construction projects you or I have done aren't important.
>
> Yes they are!

That was Slow Code talking, not me. Are you perhaps confusing attributions?
>
>> Working to
>> insure ham radio doesn't turn into CB is important. Agreed?
>
> *BOTH* are important.

Again, Slow Code...
>
> If you're not running a homebrew or at least home-assembled rig, who
> are you to call someone else an appliance operator?
>
> What good are technical *discussions* if they don't translate into
> actual working radio systems?

I have built and operated a number of entirely home brew radios. Slow Code is the one complaining about appliance operators, of which it appears he is one.

-Chuck

From -6123825597004946905
X-Google-Thread: fc2a5,5d78b1ed5280a702
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!news2.google.com!news.maxwell.syr.edu!wns14feed!
worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: Mike Burch <Libertybell7@mchsi.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: hello from belgium
References: <egj46h$jvn$1@news.brutele.be>
In-Reply-To: <egj46h$jvn$1@news.brutele.be>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 2
Message-ID: <LYhZg.1026740$084.759760@attbi_s22>
NNTP-Posting-Host: 12.206.132.84
X-Complaints-To: abuse@asp.att.net
X-Trace: attbi_s22 1161145259 12.206.132.84 (Wed, 18 Oct 2006 04:20:59 GMT)
NNTP-Posting-Date: Wed, 18 Oct 2006 04:20:59 GMT
Organization: AT&T ASP.att.net
Date: Wed, 18 Oct 2006 04:20:59 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7461

Hello from Mike Burch K8MB
Apache Junction, Arizona.

From -5578226009266803095
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-
mail
From: N2EY@AOL.COM
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: 18 Oct 2006 03:14:44 -0700
Organization: http://groups.google.com
Lines: 194
Message-ID: <1161166484.704844.34910@m73g2000cwd.googlegroups.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
   <nOLWg.2685$Ka1.1928@news01.roc.ny>
   <28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
   <Z4cXg.2828$ya1.2518@news02.roc.ny>
   <ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
   <MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
   <kXAXg.10765$o71.3942@newsread3.news.pas.earthlink.net>
   <NN-dnexaGIaKeLPYnZ2dnUVZ_rydnZ2d@rcn.net>
   <AEVYg.10362$Y24.1904@newsread4.news.pas.earthlink.net>
   <1161122534.513340.243530@k70g2000cwa.googlegroups.com>

```
   <RL6dncpml9TnPKjYnZ2dnUVZ_oadnZ2d@rcn.net>
NNTP-Posting-Host: 64.12.116.10
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161166490 32596 127.0.0.1 (18 Oct 2006 10:14:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 18 Oct 2006 10:14:50 +0000 (UTC)
In-Reply-To: <RL6dncpml9TnPKjYnZ2dnUVZ_oadnZ2d@rcn.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 Turboweb [mtc-te052 8.4.1], HTTP/1.1 cache-mtc-
aa06.proxy.aol.com[400C740A] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=64.12.116.10;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6039
rec.radio.amateur.homebrew:7462 rec.radio.amateur.policy:50294 rec.radio.swap:8694
```

Chuck Harris wrote:
> N2EY@AOL.COM wrote:
> > Slow Code wrote:
> >> Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
> >> news:NN-dnexaGIaKeLPYnZ2dnUVZ_rydnZ2d@rcn.net:
> >>> Slow Code wrote:
> >>>> Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
> >
> >>>>> While you are being all holier than thou, what did you design and
> >>>>> build for your main rig? I'm hoping to be impressed, but expecting to
> >>>>> be disappointed.
> >
> >>>>> Did the code help you with the design?
> >
> >>>>> I took my Advanced class test down at 1919 M street 36 years ago. I
> >>>>> had to sit at the desk and copy one solid minute out of five error
> >>>>> free at 13WPM. I passed it on the first try. I almost failed the
> >>>>> sending test, as I had never spent much time doing that. I had never
> >>>>> made a code contact before my test, and I have only made a couple
> >>>>> since.
> >
> >>>>> The thing about code contacts is they never seem to want to say
> >>>>> anything beyond:
> >
> >>>>> WA3XXX DE W6XX RST 5NN WX FB 73 W6XX SK
> >
> > That's not the case when I operate Morse Code.
>
> I have listened to hundreds of CW contacts, and the above is mostly the norm.
> I exaggerate a bit, but it is rare that anyone talks about anything other
> than a few very simple things. I have yet to listen to a complex conversation
> on CW... The most complicated thing I have heard is W1AW code practice, and
> some of the traffic nets.

Listening is one thing, participating is another. I've had many, many
CW QSOs that were far more complex than your example. Discussions of
rigs, antennas, jobs, family, plans for the near future (vacation, home
improvement, etc.), experiences in the other's location, and much more.

The stereotypical hello/goodbye QSO is usually the result of these
factors: poor conditions, unskilled operator(s), nature of the QSO (DX,
contest, just checking a new rig)

Of course somebody has to initiate - to say something beyond hello...

> >>>>> How does that help the cause of amateur radio?
> >
> >>>>> I have designed and built numerous rf receivers and transmitters, many
> >>>>> are employed by the US Army for various uses. I have fixed many
> >>>>> different radios from tube stuff through DSP driven affairs.
> >
> >>>>> How exactly did the code help me to do this?

Well, I don't know about you. But for me, knowing Morse Code meant I
could build and use simple(r) radio systems to try out an idea.

If someone who isn't a trained electronics person wants to design and
build their amateur radio station, what sort of project should they
build? A complete multiband SSB transceiver? Or a simple CW rig?

> >>>>> For me code was a means to an end. I wanted my license, so I learned
> >>>>> the code.
> >
> >>>>> There were plenty of rude, profane, and generally unpleasant hams on
> >>>>> the air back when all had to pass the test in the offices of the FCC.
> >
> > I don't remember that at all.
>
> Well, you wouldn't if you spent all of your time on CW.

Good point!

> Things are very
> polite on those subbands.

Isn't that a reason to promote the mode?

> If however, you ever listened to 20 meters
> around 14.313, you might have a different idea of what ham radio was about.
> For some reason that frequency was full of profane garbage mouthed hams,
> and lots of infighting in the '70s and '80s.

Sure. But how many hams were involved, out of the hundreds of thousands
on the air?

> >>>>> I haven't noticed that things are any worse now. About the only real

> >>>>> difference is in the quality of the gear folks are running. It is
> >>>>> much better than the crappy stuff that was on the air back in the
> >>>>> early 70's.
> >
> > There were good and bad rigs then as well as now.
>
> Perhaps, but nothing like some of the very cheap sweep tube transceivers of
> the late 1960's, and early '70's. Swans that drifted furiously, and practically
> invented the term TVI...

Sure - but remember that those rigs were designed 40+ years ago. They
should be judged by the standards of their time.
>
> What are the bad HF SSB rigs of today? I would bet that even the absolute
> worst is cleaner than anything that was available in the '60's, and '70's...
> If only because the regulations got tighter on spurious emissions from new
> gear.

It depends on what you consider "bad". Last FD we had some rigs that
were unusable because they put out wideband phase noise that messed up
stations on adjacent bands! Those rigs might have met the letter of the
law when new, but they sure made a lot of hash in the real world.

OTOH, serviceability of many ham rigs is very low. Even if you can deal
with SMT, a lot of them use house-numbered parts that become unobtanium
in a few years.
> ...
> >>> Even 34 years ago, there were study guides that had questions from the
> >>> pool used by the FCC. If you could memorize the answers to those
> >>> questions, you were virtually assured of passing. I used the ARRL
> >>> handbook as my guide.
> >
> > Do you mean the License Manual?
>
> Nope, I did my Advanced from basic principles. I used the ARRL Radio
> Amateur's Handbook as my guide to rules and regulations. The technical
> side of my studying came from the handbook, and a variety of other radio
> and engineering sources.

Same here - all the way to Extra in 1970.

> > It did not have the exact questions and answers in it.
>
> I looked at friend's copy of one of the the license manuals that was available
> after my test, and the questions and answers were very close. It was nothing
> like the manuals that are available today, but still so close as to be a cheat.

There were a couple of different license manuals available back then.

The ARRL LM was a reprint of FCC's study guide. Those FCC study guides
were produced by FCC to indicate the areas of knowledge you needed to
have for the test. They were essay format even though the tests were
multiple-choice.

AMECO and others rewrote them into multiple choice format.

A fellow named Dick Bash stationed himself outside FCC offices and bought information from people who had just taken the tests. He was able to recreate a pretty close version of the actual test by that method. FCC decided not to prosecute him even though he published books that were very close to the actual tests.

Then it all became academic with the VE system.

> >>> You didn't answer my questions about the home brew rig you are using.
> >>>
> >> Construction projects you or I have done aren't important.
> >
> > Yes they are!
>
> That was Slow Code talking, not me. Are you perhaps confusing attributions?

I was responding to both of you. I disagree with "Slow Code"'s claim.

> >> Working to
> >> insure ham radio doesn't turn into CB is important. Agreed?
> >
> > *BOTH* are important.
>
> Again, Slow Code...

Yup.

> > If you're not running a homebrew or at least home-assembled rig, who
> > are you to call someone else an appliance operator?
> >
> > What good are technical *discussions* if they don't translate into
> > actual working radio systems?
>
> I have built and operated a number of entirely home brew radios.

Exactly. *You* are not an appliance operator - nor are you calling anybody else an appliance operator.

> Slow Code
> is the one complaining about appliance operators, of which it appears
> he is one.

Exactly. I didn't mean to imply that *you* were an appliance operator, Chuck. Just that if "Slow Code" is going to call other people names, he should be ready to back up his claims with actions. So far, we see nothing.

Of course, one should not take "Slow Code" too seriously - if at all.

73 de Jim, N2EY

```
From 5588602922452982744
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!
news01.roc.ny.POSTED!fd24bd7a!not-for-mail
From: gwatts <gwatts@frontiernet.net>
User-Agent: Mozilla Thunderbird 1.0.6 (Windows/20050716)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
In-Reply-To: <ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 48
Message-ID: <3fpZg.3343$Ka1.3007@news01.roc.ny>
X-Complaints-To: abuse-news@frontiernet.net
X-Trace:
52616e646f6d49567942aa9b802daf2fb34eb8727a942746e62a53d7948fa190405099ec8e9fbc618b
5584b1dac468740b39b8456f222081ee3fa09760f173ea1162f53c033bcf0734eb00cfba8a45ade883
4ddff80e93554e05770228f4a26fa125560a779613ba51a2a46d4a6720abc40452227985148b3e08b2
2fe40f0436
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Wed, 18 Oct 2006 12:38:23 UTC
Date: Wed, 18 Oct 2006 12:38:23 GMT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6040
rec.radio.amateur.homebrew:7463 rec.radio.amateur.policy:50297 rec.radio.swap:8696

Slow Code wrote:
> gwatts <gwatts@frontiernet.net> wrote in
> news:Z4cXg.2828$ya1.2518@news02.roc.ny:
>
>
>>Slow Code wrote:
>>
>>>gwatts <gwatts@frontiernet.net> wrote in
```

>>>news:nOLWg.2685$Ka1.1928@news01.roc.ny:
>>>
>>>
>>>
>>>>Slow Code wrote:
>>>>
>>>>
>>>>>What do you like best about appliance operating?
>>>>
>>>>All the crotchety old farts are either off somewhere beep-beep-beeping
>>>>away on CW or bitching to each other on the lower half of the 80m phone
>>>>band, so it's easy to avoid them and talk to someone who enjoys ham
>>>>radio as it is instead of whining about how it was.
>>>>
>>>
>>>
>>>Big Ten-Four on that Good Buddy.
>>
>>It sounds like you run a lot of 11m, not surprising considering how much
>>you whine, and it's not alternator whine.
>
>
>
> I only typed like because I knew you would understand that style of
> communicating. So, after your license came in the mail what I appliance
> did you decide to buy? MFJ? Alinco? Cobra?

Kenwood TS-820S. I got a good deal because it had a few bugs. I spent
some of the evenings between the exam session and my ticket arriving
(that would be my GENERAL ticket, I skipped Novice and Technician) going
through it cleaning switches, adding ground straps to a couple circuit
boards and adding 17m to the 'AUX' position on the band switch. By the
time my ticket arrived in the mail it was ready. I worked Clipperton
Island the second day I was on the air and didn't realize it was quite
the DX catch until months later.

So, after your license came in the mail what did you start weenie
whining about first?

W8LNA

From 7505298856087554375
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!
not-for-mail
NNTP-Posting-Date: Wed, 18 Oct 2006 07:41:52 -0500

Date: Wed, 18 Oct 2006 08:40:59 -0400
From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.0.6) Gecko/20060730 SeaMonkey/1.0.4
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<kXAXg.10765$o71.3942@newsread3.news.pas.earthlink.net>   <NN-dnexaGIaKeLPYnZ2dnUVZ_rydnZ2d@rcn.net>
<AEVYg.10362$Y24.1904@newsread4.news.pas.earthlink.net>
<1161122534.513340.243530@k70g2000cwa.googlegroups.com>
<RL6dncpml9TnPKjYnZ2dnUVZ_oadnZ2d@rcn.net>
<1161166484.704844.34910@m73g2000cwd.googlegroups.com>
In-Reply-To: <1161166484.704844.34910@m73g2000cwd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <-7CdnaP-NvGNvKvYnZ2dnUVZ_qqdnZ2d@rcn.net>
Lines: 118
NNTP-Posting-Host: 72.83.120.187
X-Trace: sv3-uy3hA1qGRfnnFsIrjDLhyd0NFJJZXaCJxhRMCpZTeBvhsrL0oowVE30O4e4zLe5gVBdcI7qiGYPEtB/!qBQCjOXNm2q7+aCSDBuVzsIuVuOYmqCubHcHIVCFl+/hWizJ6oA0E/mt+xwR0uz7N/KjALoQ4yTe!rvKdAf9pkncQ
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6041 rec.radio.amateur.homebrew:7464 rec.radio.amateur.policy:50298 rec.radio.swap:8697

N2EY@AOL.COM wrote:
> Chuck Harris wrote:

>>> I don't remember that at all.
>> Well, you wouldn't if you spent all of your time on CW.
>
> Good point!
>
>> Things are very
>> polite on those subbands.
>
> Isn't that a reason to promote the mode?

To promote the mode, sure, but to require it no. I could make the same claim about RTTY, and Slow Scan. When they were popular, folks on those modes were all as polite as could be.

The impolite behavior seems to center around SSB. Probably because the mode requires essentially no effort.

>> If however, you ever listened to 20 meters
>> around 14.313, you might have a different idea of what ham radio was about.
>> For some reason that frequency was full of profane garbage mouthed hams,
>> and lots of infighting in the '70s and '80s.
>
> Sure. But how many hams were involved, out of the hundreds of thousands
> on the air?

It only takes a few. As I remember from those SSB wars in the '70's and '80's, a several hams were prosecuted. They were all General Class or higher. And because of the time frame, in which they were licensed, they had passed the CW hurdle. I recall that playing with their keyers on the SSB segment was part of their hijinks. A whole lot of "FU" and other acronyms were mixed in with the echo boxes, and microphone raking.
>
>>>>>>> I haven't noticed that things are any worse now. About the only real
>>>>>>> difference is in the quality of the gear folks are running. It is
>>>>>>> much better than the crappy stuff that was on the air back in the
>>>>>>> early 70's.
>>> There were good and bad rigs then as well as now.
>> Perhaps, but nothing like some of the very cheap sweep tube transceivers of
>> the late 1960's, and early '70's. Swans that drifted furiously, and
practically
>> invented the term TVI...
>
> Sure - but remember that those rigs were designed 40+ years ago. They
> should be judged by the standards of their time.

And I was. But today's rigs, when judged by the ear are more pleasant to listen to.

>> What are the bad HF SSB rigs of today? I would bet that even the absolute
>> worst is cleaner than anything that was available in the '60's, and '70's...
>> If only because the regulations got tighter on spurious emissions from new
>> gear.
>
> It depends on what you consider "bad". Last FD we had some rigs that
> were unusable because they put out wideband phase noise that messed up
> stations on adjacent bands! Those rigs might have met the letter of the
> law when new, but they sure made a lot of hash in the real world.

Fortunately, that wideband phase noise doesn't carry beyond a few hundred yards from the radio. It used to be a really big problem with the early solid state radios... But not so much so with the newer rigs. Field Day was where I first noticed the effect.... Key the mike, and all bands were awash in hiss, even before the first word was spoken. Icom comes to mind.

Having a Clegg FM27B around on field day is a real treat too...not!

> OTOH, serviceability of many ham rigs is very low. Even if you can deal
> with SMT, a lot of them use house-numbered parts that become unobtanium
> in a few years.

Entirely the result of meeting the customer's demands for in expensive
feature laden radios that fit in packages smaller than a dictionary.

...
>>> It did not have the exact questions and answers in it.
>> I looked at friend's copy of one of the the license manuals that was available
>> after my test, and the questions and answers were very close. It was nothing
>> like the manuals that are available today, but still so close as to be a cheat.
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> There were a couple of different license manuals available back then.
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> The ARRL LM was a reprint of FCC's study guide. Those FCC study guides
> were produced by FCC to indicate the areas of knowledge you needed to
> have for the test. They were essay format even though the tests were
> multiple-choice.
>
> AMECO and others rewrote them into multiple choice format.

I think my friends "manual" might have been Ameco.

> A fellow named Dick Bash stationed himself outside FCC offices and
> bought information from people who had just taken the tests. He was
> able to recreate a pretty close version of the actual test by that
> method. FCC decided not to prosecute him even though he published books
> that were very close to the actual tests.

I don't think Bash was doing that until after the VE system came on line...
but I don't recall for sure.

...
>>> What good are technical *discussions* if they don't translate into
>>> actual working radio systems?
>> I have built and operated a number of entirely home brew radios.
>
> Exactly. *You* are not an appliance operator - nor are you calling
> anybody else an appliance operator.

Actually, these days for what little operating I do, I am an appliance
operator. Because of my early ham experience, and the fact that I am
an EE, I know how to design and build, even if I don't chose to do so
right now. Ham radio probably figures heavily in my being an EE.

My general belief is if you have passed the test that is in force, you
are a ham... period. Beyond passing whatever is required, I don't care
how you got here, just what you do now that you are here.

-Chuck

```
From -4302567225532700283
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.speakeasy.net!
news.speakeasy.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 18 Oct 2006 08:43:38 -0500
Date: Wed, 18 Oct 2006 09:43:38 -0400
From: William Warren <william_warren_nonoise@speakeasy.net>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Please do not fed the trolls  (was: Question for the group. Mainly
 new hams.)
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
In-Reply-To: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <XNadnQqnOKUWsqvYnZ2dnUVZ_radnZ2d@speakeasy.net>
Lines: 20
NNTP-Posting-Host: 66.92.86.246
X-Trace: sv3-PLq9yADXfxg9AY3Zcqn0XTel6N9NspP8QDqxZEPuauWnILl/
+l2gAsQ4vIxaYhVMckeD0/2MN2PDTMp!
Uke2YGjRFEGNy+k0nGvKXm7Ya2ucXO8LbffFiROWilmkFeKigYThiObXW2XlGUddXmUaOEazSzVG!
fImCiq/mMEbGTCsCAaDcbksvoDStWUK3trI=
X-Complaints-To: abuse@speakeasy.net
X-DMCA-Complaints-To: abuse@speakeasy.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6042
rec.radio.amateur.homebrew:7465 rec.radio.amateur.policy:50318 rec.radio.swap:8698
```

Slow Code wrote:

> What do you like best about appliance operating?
>
> SC

```
              +-------------------+             .:\:\:/:/:.
               |   PLEASE DO NOT   |            :.:\:\:/:/:.:
               |  FEED THE TROLLS  |           :=.' -   - '.=:
               |                   |           '=(\ 9   9 /)='
               |   Thank you,      |              (  (_)  )
               |       Management  |              /`-vvv-'\
               +-------------------+             /         \
                       |  |        @@@          / /|,,,,,|\ \
                       |  |        @@@         /_//  /^\  \\_\
         @x@@x@        |  |         |/         WW(  (   )  )WW
         \||||/        |  |        \|           __\,,\ /,,/__
          \||/         |  |         |      jgs (______Y______)
      /\/\/\/\/\/\/\/\/\//\/\\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 > ======================================================================
```

```
From -6594132752583921092
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i3g2000cwc.googlegroups.com!not-for-
mail
From: "an old friend" <kb9rqz@hotmail.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: 18 Oct 2006 08:16:22 -0700
Organization: http://groups.google.com
Lines: 23
Message-ID: <1161184582.772835.268470@i3g2000cwc.googlegroups.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
   <nOLWg.2685$Ka1.1928@news01.roc.ny>
   <28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
   <Z4cXg.2828$ya1.2518@news02.roc.ny>
   <ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
   <MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
   <kXAXg.10765$o71.3942@newsread3.news.pas.earthlink.net>
   <NN-dnexaGIaKeLPYnZ2dnUVZ_rydnZ2d@rcn.net>
   <AEVYg.10362$Y24.1904@newsread4.news.pas.earthlink.net>
   <1161122534.513340.243530@k70g2000cwa.googlegroups.com>
   <RL6dncpml9TnPKjYnZ2dnUVZ_oadnZ2d@rcn.net>
   <1161166484.704844.34910@m73g2000cwd.googlegroups.com>
   <-7CdnaP-NvGNvKvYnZ2dnUVZ_qqdnZ2d@rcn.net>
NNTP-Posting-Host: 69.19.14.42
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161184587 12284 127.0.0.1 (18 Oct 2006 15:16:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 18 Oct 2006 15:16:27 +0000 (UTC)
In-Reply-To: <-7CdnaP-NvGNvKvYnZ2dnUVZ_qqdnZ2d@rcn.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
```

```
Injection-Info: i3g2000cwc.googlegroups.com; posting-host=69.19.14.42;
   posting-account=u4IZrA0AAAAnZJmD4DLlWGiEpMGb--6i
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6043
rec.radio.amateur.homebrew:7466 rec.radio.amateur.policy:50385 rec.radio.swap:8699


Chuck Harris wrote:
> N2EY@AOL.COM wrote:
> > Chuck Harris wrote:
>
> >>> I don't remember that at all.
> >> Well, you wouldn't if you spent all of your time on CW.
> >
> > Good point!
> >
> >> Things are very
> >> polite on those subbands.
> >
> > Isn't that a reason to promote the mode?
>
> To promote the mode, sure, but to require it no.  I could make the same claim
> about RTTY, and Slow Scan.  When they were popular, folks on those modes were
> all as polite as could be.
>
> The impolite behavior seems to center around SSB.  Probably because the mode
> requires essentially no effort.
funny how the result now is to transfer a lot of the rudeness to CW



From 4371233150951006409
X-Google-Thread: fc2a5,500c4bb31d00422
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 18 Oct 2006 13:59:10 -0500
From: Dan Andersson <dan@andersson.co.uk>
Subject: Re: step motor info please
Newsgroups: rec.radio.amateur.homebrew
Date: Wed, 18 Oct 2006 19:59:09 +0100
References: <icyYg.14335$vJ2.13689@newssvr12.news.prodigy.com>
Organization: @Home
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <5NKdndFoBPbj5KvYnZ2dnUVZ8smdnZ2d@eclipse.net.uk>
Lines: 26
NNTP-Posting-Host: 87.102.20.195
X-Trace: sv3-bxrI4j3kckZsZ0oXrJKKjSvTBP7gJSR78NERN/
PV2FRkASdk3aDxcAxST0x2fPJUY29iL5RUh0bmwkd!EySltMLNSRYvWr6jRKzq5hrYe3d3/
```

```
pxCRdS7JpRW65WoMgs256isZXkd5imGKCjcoBwxdfyy0ve9!ADRzR0JtOcdQrErkyGkS
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7467
```

larry d clark wrote:

>
> i have always wanted to build a step motor driven
> balanced tuner. i have acquired an excellent tx air capacitor
> and 2 matched 28 uh roller inductors. next step is
> to acquire 2 step motors with some kind of positioning
> indicator, either optical or a pot.
>
> any have any recommendations for a company site, or for
> anyting else related, pulleys, belts, encoders etc
>
> larry
> kd5foy

Why using stepmotors.

Try to get syngons (or synchrons) instead. These are motor-alike things
that you feed with AC and when you turn one of them, the other reciproces.
It's like a radio controlled servo but without the usual QRM from the
motors.

Cheers

Dan / M0DFI

```
From 5797251297300448687
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-
mail
From: N2EY@AOL.COM
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: 18 Oct 2006 16:14:25 -0700
Organization: http://groups.google.com
```

```
Lines: 160
Message-ID: <1161213265.621459.226780@k70g2000cwa.googlegroups.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
   <nOLWg.2685$Ka1.1928@news01.roc.ny>
   <28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
   <Z4cXg.2828$ya1.2518@news02.roc.ny>
   <ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
   <MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
   <kXAXg.10765$o71.3942@newsread3.news.pas.earthlink.net>
   <NN-dnexaGIaKeLPYnZ2dnUVZ_rydnZ2d@rcn.net>
   <AEVYg.10362$Y24.1904@newsread4.news.pas.earthlink.net>
   <1161122534.513340.243530@k70g2000cwa.googlegroups.com>
   <RL6dncpml9TnPKjYnZ2dnUVZ_oadnZ2d@rcn.net>
   <1161166484.704844.34910@m73g2000cwd.googlegroups.com>
   <-7CdnaP-NvGNvKvYnZ2dnUVZ_qqdnZ2d@rcn.net>
NNTP-Posting-Host: 152.163.100.131
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161213270 18194 127.0.0.1 (18 Oct 2006 23:14:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 18 Oct 2006 23:14:30 +0000 (UTC)
In-Reply-To: <-7CdnaP-NvGNvKvYnZ2dnUVZ_qqdnZ2d@rcn.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 Turboweb [rtc-ta052 8.4.1], HTTP/1.1 cache-rtc-
ac02.proxy.aol.com[98A36483] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=152.163.100.131;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6050
rec.radio.amateur.homebrew:7468 rec.radio.amateur.policy:50614 rec.radio.swap:8703
```

```
Chuck Harris wrote:
> N2EY@AOL.COM wrote:
> > Chuck Harris wrote:

> >> Things are very
> >> polite on those subbands.
> >
> > Isn't that a reason to promote the mode?
>
> To promote the mode, sure, but to require it no.

One way to promote a mode is to give it significant band space.

> I could make the same claim
> about RTTY, and Slow Scan.  When they were popular, folks on those modes were
> all as polite as could be.

The difference is that only Morse Code requires skills that the average
person does not have.
```

> The impolite behavior seems to center around SSB. Probably because the mode
> requires essentially no effort.

Maybe. I think there are many causes.

> >> If however, you ever listened to 20 meters
> >> around 14.313, you might have a different idea of what ham radio was about.
> >> For some reason that frequency was full of profane garbage mouthed hams,
> >> and lots of infighting in the '70s and '80s.
> >
> > Sure. But how many hams were involved, out of the hundreds of thousands
> > on the air?
>
> It only takes a few. As I remember from those SSB wars in the '70's and
> '80's, a several hams were prosecuted. They were all General Class or higher.
> And because of the time frame, in which they were licensed, they had passed
> the CW hurdle. I recall that playing with their keyers on the SSB segment was
> part of their hijinks. A whole lot of "FU" and other acronyms were mixed in
> with the echo boxes, and microphone raking.

They were a few out of hundreds of thousands.

And yes, they all passed the Morse Code test - supposedly, anyhow. But
they also passed one or more *written* tests which included questions
on acceptable on-air behavior. Why don't the written tests get the
blame?

Look at the recent case of Jack Gerritsen, ex-KG6IRO. What possible
reason is there for his behavior?

> >>>>>>> I haven't noticed that things are any worse now. About the only real
> >>>>>>> difference is in the quality of the gear folks are running. It is
> >>>>>>> much better than the crappy stuff that was on the air back in the
> >>>>>>> early 70's.
> >>> There were good and bad rigs then as well as now.
> >> Perhaps, but nothing like some of the very cheap sweep tube transceivers of
> >> the late 1960's, and early '70's. Swans that drifted furiously, and
practically
> >> invented the term TVI...
> >
> > Sure - but remember that those rigs were designed 40+ years ago. They
> > should be judged by the standards of their time.
>
> And I was. But today's rigs, when judged by the ear are more pleasant to
> listen to.

Some are, some aren't - IMHO.
>
> >> What are the bad HF SSB rigs of today? I would bet that even the absolute
> >> worst is cleaner than anything that was available in the '60's, and '70's...
> >> If only because the regulations got tighter on spurious emissions from new
> >> gear.
> >

> > It depends on what you consider "bad". Last FD we had some rigs that
> > were unusable because they put out wideband phase noise that messed up
> > stations on adjacent bands! Those rigs might have met the letter of the
> > law when new, but they sure made a lot of hash in the real world.
>
> Fortunately, that wideband phase noise doesn't carry beyond a few hundred
> yards from the radio. It used to be a really big problem with the early
> solid state radios... But not so much so with the newer rigs.

The rigs that gave us headaches were only a few years old.

> Field Day was
> where I first noticed the effect.... Key the mike, and all bands were awash
> in hiss, even before the first word was spoken. Icom comes to mind.

Bingo.

> Having a Clegg FM27B around on field day is a real treat too...not!
>
> > OTOH, serviceability of many ham rigs is very low. Even if you can deal
> > with SMT, a lot of them use house-numbered parts that become unobtanium
> > in a few years.
>
> Entirely the result of meeting the customer's demands for in expensive
> feature laden radios that fit in packages smaller than a dictionary.

Are those really customer demands, or are they driven by the
manufacturers who want to sell more radios?

> ...
> >>> It did not have the exact questions and answers in it.
> >> I looked at friend's copy of one of the the license manuals that was
available
> >> after my test, and the questions and answers were very close. It was nothing
> >> like the manuals that are available today, but still so close as to be a
cheat.
> >
> > There were a couple of different license manuals available back then.
> >
> > The ARRL LM was a reprint of FCC's study guide. Those FCC study guides
> > were produced by FCC to indicate the areas of knowledge you needed to
> > have for the test. They were essay format even though the tests were
> > multiple-choice.
> >
> > AMECO and others rewrote them into multiple choice format.
>
> I think my friends "manual" might have been Ameco.

Very possible.
>
> > A fellow named Dick Bash stationed himself outside FCC offices and
> > bought information from people who had just taken the tests. He was
> > able to recreate a pretty close version of the actual test by that

> > method. FCC decided not to prosecute him even though he published books
> > that were very close to the actual tests.
>
> I don't think Bash was doing that until after the VE system came on line...
> but I don't recall for sure.

It was the other way around. Bash did his thing in the early 1970s. The
VE system came to be in the early 1980s. The VE system put Bash out of
business because the question pools became public then.

> ...
> >>> What good are technical *discussions* if they don't translate into
> >>> actual working radio systems?
> >> I have built and operated a number of entirely home brew radios.
> >
> > Exactly. *You* are not an appliance operator - nor are you calling
> > anybody else an appliance operator.
>
> Actually, these days for what little operating I do, I am an appliance
> operator. Because of my early ham experience, and the fact that I am
> an EE, I know how to design and build, even if I don't chose to do so
> right now. Ham radio probably figures heavily in my being an EE.

Same here - except I'm still homebrewing.

> My general belief is if you have passed the test that is in force, you
> are a ham... period.

Agreed!

> Beyond passing whatever is required, I don't care
> how you got here, just what you do now that you are here.

Agreed again!

73 de Jim, N2EY

From 2512195044758873655
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.

Date: Wed, 18 Oct 2006 19:29:21 -0400
Message-ID: <m5edj29mr0a5m8vs7ujn1l4093i2qhg0ml@4ax.com>
References: <MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<kXAXg.10765$o71.3942@newsread3.news.pas.earthlink.net> <NN-dnexaGIaKeLPYnZ2dnUVZ_rydnZ2d@rcn.net>
<AEVYg.10362$Y24.1904@newsread4.news.pas.earthlink.net>
<1161122534.513340.243530@k70g2000cwa.googlegroups.com>
<RL6dncpml9TnPKjYnZ2dnUVZ_oadnZ2d@rcn.net>
<1161166484.704844.34910@m73g2000cwd.googlegroups.com> <-7CdnaP-NvGNvKvYnZ2dnUVZ_qqdnZ2d@rcn.net>
<1161213265.621459.226780@k70g2000cwa.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 24
NNTP-Posting-Date: 18 Oct 2006 22:34:12 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6051 rec.radio.amateur.homebrew:7469 rec.radio.amateur.policy:50617 rec.radio.swap:8704

On 18 Oct 2006 16:14:25 -0700, N2EY@AOL.COM wrote:

>Chuck Harris wrote:
>> N2EY@AOL.COM wrote:
>> > Chuck Harris wrote:
>
>> >> Things are very
>> >> polite on those subbands.
>> >
>> > Isn't that a reason to promote the mode?
>>
>> To promote the mode, sure, but to require it no.
>
>One way to promote a mode is to give it significant band space.
>
>> I could make the same claim
>> about RTTY, and Slow Scan. When they were popular, folks on those modes were
>> all as polite as could be.
>
>The difference is that only Morse Code requires skills that the average
>person does not have.

why does that justify the rudeness of it operators Jim?
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -3881352282175703110
X-Google-Thread: fc8b1,2dd76509fb44502d

X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.wightman.ca!
news.wightman.ca.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 18 Oct 2006 18:42:55 -0500
From: "Spokesman" <his@spam.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<kXAXg.10765$o71.3942@newsread3.news.pas.earthlink.net> <NN-
dnexaGIaKeLPYnZ2dnUVZ_rydnZ2d@rcn.net>
<AEVYg.10362$Y24.1904@newsread4.news.pas.earthlink.net>
<bLydncmhdskF2KnYnZ2dnUVZ_o-dnZ2d@rcn.net>
Subject: Re: Question for the group. Mainly new hams.
Date: Wed, 18 Oct 2006 19:42:51 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <p_KdnUSN5KmdIavYnZ2dnUVZ_qqdnZ2d@wightman.ca>
Lines: 32
NNTP-Posting-Host: 216.110.224.143
X-Trace: sv3-NGmNWEi8VZsMV/DL8+NHnyLjWcPmM/
sKqWfg2lSzE50XcsddtBRARjuF0hkTz3UTLyBp9o67bdWjnW1!
6EpU6GLqfP7N0wM7MhuB4N8DHEKmuNydG+tGTEYMH1ACKA+tJLff+36cdZJhGe9ZYTQ0wkHWvVGm!
bBQdk7iQ6zqA4s8=
X-Complaints-To: abuse@wightman.ca
X-DMCA-Complaints-To: abuse@wightman.ca
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6052
rec.radio.amateur.homebrew:7470 rec.radio.amateur.policy:50619 rec.radio.swap:8705

"Chuck Harris" <cf-NO-SPAM-harris@erols.com> wrote in message
news:bLydncmhdskF2KnYnZ2dnUVZ_o-dnZ2d@rcn.net...
> Slow Code wrote:
>
> >> Even 34 years ago, there were study guides that had questions from the
> >> pool used by the FCC. If you could memorize the answers to those
> >> questions, you were virtually assured of passing. I used the ARRL

> >> handbook as my guide.
> >>
> >> You didn't answer my questions about the home brew rig you are using.
> >>
> >> -Chuck
> >
> >
> > Construction projects you or I have done aren't important. Working to
> > insure ham radio doesn't turn into CB is important. Agreed?
>
> Oh, I agree, but if you do too, then I have trouble understanding why
> you are ragging on folks that are using store bought radios.

Slow Mind does not know that a Real Ham only uses a radio he built
himself. A Real Ham would not use one of those crappy store-bought
things.

>
> -Chuck

From -3472249147544298365
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Please do not fed the trolls (was: Question for the group. Mainly
new hams.)
From: Slow Code <my.mail@no.spam>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<XNadnQqnOKUWsqvYnZ2dnUVZ_radnZ2d@speakeasy.net>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 165
Message-ID: <lpzZg.8963$Lv3.6474@newsread1.news.pas.earthlink.net>
Date: Thu, 19 Oct 2006 00:12:01 GMT
NNTP-Posting-Host: 4.227.160.25
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1161216721 4.227.160.25 (Wed, 18 Oct
2006 17:12:01 PDT)

```
NNTP-Posting-Date: Wed, 18 Oct 2006 17:12:01 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6053
rec.radio.amateur.homebrew:7471 rec.radio.amateur.policy:50648 rec.radio.swap:8721

William Warren <william_warren_nonoise@speakeasy.net> wrote in
news:XNadnQqnOKUWsqvYnZ2dnUVZ_radnZ2d@speakeasy.net:

> Slow Code wrote:
>> What do you like best about appliance operating?
>>
>> SC
>
>               +-------------------+             .:\:\:/:/:.
>                |   PLEASE DO NOT   |            :.:\:\:/:/:.:
>                |  FEED THE TROLLS  |           :=.' -   - '.=:
>                |                   |           '=(\ 9   9 /)='
>                |   Thank you,      |              (  (_)  )
>                |       Management  |              /`-vvv-'\
>                +-------------------+             /         \
>                        |  |        @@@          / /|,,,,,|\ \
>                        |  |        @@@         /_//  /^\  \\_\
>          @x@@x@        |  |         |/         WW(  (   )  )WW
>          \||||/        |  |        \|           __\,,\ /,,/__
>           \||/         |  |         |      jgs (______Y______)
>       /\/\/\/\/\/\/\/\//\/\\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
> > ========================================================================




*******************************************************
*******************************************************
  ATTENTION USENET VISITORS, THIS AREA HAS BEEN
  DECLARED A TROLL WILDLIFE REFUGE.   TO LEARN ABOUT
  THE TROLL, ITS HABITAT, AND  ITS WAY OF LIFE, PLEASE
  READ THE SIGN-POST BELOW. IF YOU WOULD LIKE TO LEARN
  MORE ABOUT THE TROLL,  YOU CAN PICK UP BOOKS AND
  SOUVENIRS IN THE GIFT SHOP AT THE END OF THE TOUR.
  THANK YOU IN ADVANCE FOR OBSERVING ALL TROLL WILDLIFE
  REFUGE RULES, HAVE A NICE DAY.

********************************************************
********************************************************

 -----------------------------------------
 |  Common name: Woodland Troll          |
 |  Scientific name: Trollus Useneticus  |
 -----------------------------------------


#############################################################
```

```
#                                                          #
#              PHYSICAL CHARACTERISTICS:                  #
#                                                          #
#  The common woodland troll (Trollus Useneticus) is an    #
#  approximately 1.7m long nocturnal furry creature that   #
#  has been found to exist in nearly every climate and     #
#  latitude.  Predominant features include: a very pale    #
#  complexion, a large bony ridge above the eyes, a dense  #
#  cranium, dragging knuckles, and a pungent odor.         #
#                                                          #
############################################################


############################################################
#                                                          #
#                        HABITAT:                         #
#                                                          #
#  Most trolls spend the daylight hours under a large rock #
#  sleeping.  Unfortunately, the natural habitat of the    #
#  troll has been encroached by development (as is all too #
#  common these days).  The modern troll has to make due   #
#  with a slimy, moss covered rock.  Often, trolls are     #
#  forced to endure poor sanitation and filthy living      #
#  conditions.  Combined with the general lack of hygiene  #
#  among trolls, this results in a very unpleasant odor.   #
#                                                          #
############################################################


############################################################
#                                                          #
#                ACTIVITIES AND DIET:                     #
#                                                          #
#  During their active period at night, the common troll   #
#  engages in numerous activities, though the most         #
#  important of these is foraging for food.  The one       #
#  characteristic that ties all different troll species    #
#  and sub-species together is their diet.  Trolls         #
#  invariably survive off of a combination of cheetos,     #
#  arguments, and annoying others.  A typical troll        #
#  requires approximately 10 arguments and flames per day  #
#  just to stay alive.  With the increasing use of         #
#  killfiles and just regular ignoring of trolls, it has   #
#  become more and more difficult for trolls to eke out a  #
#  basic sustenance.                                       #
#                                                          #
############################################################


############################################################
```

```
#                                                          #
#                     KNOWN PREDATORS:                     #
#                                                          #
#  Unfortunately, trolls have many predators.  Most common #
#  among them are the helpful researcher, the informative  #
#  poster, the cool headed responder, and the kill-filer.  #
#  The cool header responder is technically not a troll    #
#  predator however.  Trolls are typically unfazed by      #
#  logical counter arguments and cool headed reason.       #
#  However, even though their posts do not deliver the     #
#  same level of sustenance that a "flamer" or an "annoyed #
#  poster" may provide, they still provide a valuable      #
#  source of dietary fiber for the troll.                  #
#                                                          #
#  The most dangerous predators for the trolls are the     #
#  helpful researcher, the informative poster, and the     #
#  kill-filer.  The common troll is highly allergic to     #
#  fact, real data, and research.  Upon skin contact with  #
#  actual hard evidence and real data, the troll will      #
#  experience intense itching and burning at the site of   #
#  contact, followed by lesions and blisters.  Eventually, #
#  this results in loss of skin near the area of contact,  #
#  and usually to loss of a limb (in the example of        #
#  contact near the arm or leg).  Contact with facts and   #
#  data near the facial area usually results in a slow     #
#  painful death.  Contact with extremely high doses of    #
#  fact and hard data can cause temporary loss of          #
#  consciousness and even permanent brain damage for the   #
#  troll.                                                  #
#                                                          #
#  The kill-filer poses a much more insidious threat to    #
#  the troll.  Not posing a direct threat to the troll per #
#  se, the kill-filer simply deprives the troll of yet     #
#  another source of nourishment. Some trolls have         #
#  developed counter measures to thwart the kill-filers,   #
#  usually this takes the form of a type of camoflage.     #
#                                                          #
#  The trolls' predators have reaped a terrible slaughter  #
#  over the years, resulting in the death of great hordes  #
#  of trolls.  Trolls continue to breed rapidly though and #
#  their population is stable.  However, it is unknown how #
#  long this situation can persist.  Eventually, natural   #
#  predators and poachers may result in lower numbers of   #
#  trolls.  Already we are seeing lower diversity among    #
#  the different troll species.  That is why this troll    #
#  habitat refuge exists, to ensure the preservation of    #
#  the troll for not only our future, but the future of    #
#  our children.                                           #
#                                                          #
############################################################
```

```
 =========================================================
 / This troll habitat refuge has been paid for in part by /
 / the anti Troll-Defamation League, the International    /
 / Society for the Advancement of Trolls, and the Troll   /
 / Habitat Preservation Alliance.                         /
 =========================================================
```

```
From 5390003005164965267
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
From: Slow Code <my.mail@no.spam>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<kXAXg.10765$o71.3942@newsread3.news.pas.earthlink.net> <NN-
dnexaGIaKeLPYnZ2dnUVZ_rydnZ2d@rcn.net>
<AEVYg.10362$Y24.1904@newsread4.news.pas.earthlink.net>
<XcYYg.900$um6.99@tornado.texas.rr.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 99
Message-ID: <xpzZg.8965$Lv3.3214@newsread1.news.pas.earthlink.net>
Date: Thu, 19 Oct 2006 00:12:13 GMT
NNTP-Posting-Host: 4.227.160.25
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1161216733 4.227.160.25 (Wed, 18 Oct
2006 17:12:13 PDT)
NNTP-Posting-Date: Wed, 18 Oct 2006 17:12:13 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6054
rec.radio.amateur.homebrew:7472 rec.radio.amateur.policy:50649 rec.radio.swap:8722
```

"U-Know-Who" <no-one@nowhere.com> wrote in
news:XcYYg.900$um6.99@tornado.texas.rr.com:

>
> "Slow Code" <my.mail@no.spam> wrote in message
> news:AEVYg.10362$Y24.1904@newsread4.news.pas.earthlink.net...
>> Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
>> news:NN-dnexaGIaKeLPYnZ2dnUVZ_rydnZ2d@rcn.net:
>>
>>> Slow Code wrote:
>>>> Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
>>>
>>>>> While you are being all holier than thou, what did you design and
>>>>> build for your main rig? I'm hoping to be impressed, but expecting
>>>>> to be disappointed.
>>>>>
>>>>> Did the code help you with the design?
>>>>>
>>>>> I took my Advanced class test down at 1919 M street 36 years ago. I
>>>>> had to sit at the desk and copy one solid minute out of five error
>>>>> free at 13WPM. I passed it on the first try. I almost failed the
>>>>> sending test, as I had never spent much time doing that. I had
>>>>> never made a code contact before my test, and I have only made a
>>>>> couple since.
>>>>>
>>>>> The thing about code contacts is they never seem to want to say
>>>>> anything beyond:
>>>>>
>>>>> WA3XXX DE W6XX RST 5NN WX FB 73 W6XX SK
>>>>>
>>>>> How does that help the cause of amateur radio?
>>>>>
>>>>> I have designed and built numerous rf receivers and transmitters,
>>>>> many are employed by the US Army for various uses. I have fixed
>>>>> many different radios from tube stuff through DSP driven affairs.
>>>>>
>>>>> How exactly did the code help me to do this?
>>>>>
>>>>> For me code was a means to an end. I wanted my license, so I
>>>>> learned the code.
>>>>>
>>>>> There were plenty of rude, profane, and generally unpleasant hams on
>>>>> the air back when all had to pass the test in the offices of the
>>>>> FCC. I haven't noticed that things are any worse now. About the
>>>>> only real difference is in the quality of the gear folks are
>>>>> running. It is much better than the crappy stuff that was on the
>>>>> air back in the early 70's.
>>>>>
>>>>> -Chuck
>>>>
>>>>
>>>> Are conversations on repeaters as technical as they were twenty-five
>>>> years ago?
>>>
>>> Oh, easily. 25 years ago, technical conversations were dominated by
>>> such earth shatteringly important stuff as having a ham down at the

>>> repeater site helping other hams tune their transmitters to be on
>>> frequency. Other wonderkind were hitting the repeater with a full
>>> quieting signal, and turning their power up to try and get a better
>>> signal to that DX mobile that breaking up.
>>>
>>> If it wasn't that, it was an endless sea of autopatches calling the
>>> xyl to tell her that traffic was bad, could she start dinner... or
>>> ordering pizza.
>>>
>>>>
>>>> Me? I hear no-codes and nickle extras arguing how long a half wave
>>>> dipole should be.
>>>
>>> I heard the same things 25 years ago from Generals that got their
>>> licenses at the offices of the FCC.
>>>
>>> Even 34 years ago, there were study guides that had questions from the
>>> pool used by the FCC. If you could memorize the answers to those
>>> questions, you were virtually assured of passing. I used the ARRL
>>> handbook as my guide.
>>>
>>> You didn't answer my questions about the home brew rig you are using.
>>>
>>> -Chuck
>>
>>
>> Construction projects you or I have done aren't important. Working to
>> insure ham radio doesn't turn into CB is important. Agreed?
>>
>> SC
>
> SC, tell us all, and don't lie. Do you not agree that a LOT of hams
> today were CB'ers in the '70's and chose to advance their radio skills
> by advancing to ham radio? If you disagree, then 1) you're a liar, and
> 2) did this not help the service? And thusly, if you disagree I suspect
> you fit into this mold, and choose to deny your past.

I'm sure a lot of hams migrated from citizens band, but up until about the
last 16 years, they had to pass a real ham test to get in. Not dumbed
down tests like we have today.

SC

From -3377494769610040874
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!

```
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
From: Slow Code <my.mail@no.spam>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<1161091728.610995.236060@m7g2000cwm.googlegroups.com>
<1161108371.016803.159340@h48g2000cwc.googlegroups.com>
<pi9Zg.46947$nm1.8930@fed1read04>
<1161119301.113067.200270@b28g2000cwb.googlegroups.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 28
Message-ID: <JpzZg.8966$Lv3.8914@newsread1.news.pas.earthlink.net>
Date: Thu, 19 Oct 2006 00:12:25 GMT
NNTP-Posting-Host: 4.227.160.25
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1161216745 4.227.160.25 (Wed, 18 Oct
2006 17:12:25 PDT)
NNTP-Posting-Date: Wed, 18 Oct 2006 17:12:25 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6055
rec.radio.amateur.homebrew:7473 rec.radio.amateur.policy:50650 rec.radio.swap:8723

hot-ham-and-cheese@hotmail.com wrote in
news:1161119301.113067.200270@b28g2000cwb.googlegroups.com:

>
> Caveat Lector wrote:
>> When you passed the FCC exam - you are an Amateur Radio Operator period
>> -- plain and simple.
>>
>> Whether you passed a 20 wpm code test or no code - you are a Ham
>>
>> Whether you had to draw the schematic for a Colpitts Oscillator or not
>> - you are a Ham
>>
>> Whether you faced the steely-eyed FCC examiner or a VE -- you are a Ham
>>
>> Those who say otherwise are shrouded in elitism and a synonym  for
>> elitism is snobbery - plain and simple
>>
>> This is 2006, not 1920
>>
>> CL
>
> You got that right.


It's nice to see a couple 11 meter jockeys agreeing with each other.

SC
```

```
From 5380340229248027955
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!newshub.sdsu.edu!elnk-
nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
From: Slow Code <my.mail@no.spam>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<3fpZg.3343$Ka1.3007@news01.roc.ny>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 65
Message-ID: <WpzZg.8967$Lv3.8193@newsread1.news.pas.earthlink.net>
Date: Thu, 19 Oct 2006 00:12:38 GMT
NNTP-Posting-Host: 4.227.160.25
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1161216758 4.227.160.25 (Wed, 18 Oct
2006 17:12:38 PDT)
NNTP-Posting-Date: Wed, 18 Oct 2006 17:12:38 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6056
rec.radio.amateur.homebrew:7474 rec.radio.amateur.policy:50651 rec.radio.swap:8724

gwatts <gwatts@frontiernet.net> wrote in
news:3fpZg.3343$Ka1.3007@news01.roc.ny:

> Slow Code wrote:
>> gwatts <gwatts@frontiernet.net> wrote in
>> news:Z4cXg.2828$ya1.2518@news02.roc.ny:
>>
>>
>>>Slow Code wrote:
>>>
>>>>gwatts <gwatts@frontiernet.net> wrote in
>>>>news:nOLWg.2685$Ka1.1928@news01.roc.ny:
>>>>
>>>>
>>>>
>>>>>Slow Code wrote:
>>>>>
```

>>>>>
>>>>>>What do you like best about appliance operating?
>>>>>
>>>>>All the crotchety old farts are either off somewhere
>>>>>beep-beep-beeping away on CW or bitching to each other on the lower
>>>>>half of the 80m phone band, so it's easy to avoid them and talk to
>>>>>someone who enjoys ham radio as it is instead of whining about how it
>>>>>was.
>>>>>
>>>>
>>>>
>>>>Big Ten-Four on that Good Buddy.
>>>
>>>It sounds like you run a lot of 11m, not surprising considering how
>>>much you whine, and it's not alternator whine.
>>
>>
>>
>> I only typed like because I knew you would understand that style of
>> communicating. So, after your license came in the mail what I
>> appliance did you decide to buy? MFJ? Alinco? Cobra?
>
> Kenwood TS-820S. I got a good deal because it had a few bugs. I spent
> some of the evenings between the exam session and my ticket arriving
> (that would be my GENERAL ticket, I skipped Novice and Technician) going
> through it cleaning switches, adding ground straps to a couple circuit
> boards and adding 17m to the 'AUX' position on the band switch. By the
> time my ticket arrived in the mail it was ready. I worked Clipperton
> Island the second day I was on the air and didn't realize it was quite
> the DX catch until months later.
>
> So, after your license came in the mail what did you start weenie
> whining about first?
>
> W8LNA

I made a lot of contacts on CW. I knew it was what I had to do to be a
valuable asset to the service and I had a lot of fun communicating with
other CW ops around the world. I was always surprised at how good the
Russians were at CW.   Doing CW helped me get get my skills up and I
quickly passed my 20 wpm Extra. (the real Extra)

Now I try to help other hams and potential hams on radio and on usenet,
but the usenet hams are so lazy they don't want to learn anything. They
want licensing to be dumbed down some more.

SC

From 851279262128947380
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d

```
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: Wed, 18 Oct 2006 21:04:38 -0400
Message-ID: <fojdj2d1h31am5kj8s3jg7l8ibmta27l06@4ax.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<3fpZg.3343$Ka1.3007@news01.roc.ny>
<WpzZg.8967$Lv3.8193@newsread1.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 13
NNTP-Posting-Date: 19 Oct 2006 00:09:23 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6057
rec.radio.amateur.homebrew:7475 rec.radio.amateur.policy:50665 rec.radio.swap:8730

On Thu, 19 Oct 2006 00:12:38 GMT, Slow Code <my.mail@no.spam> wrote:

>gwatts <gwatts@frontiernet.net> wrote in
>news:3fpZg.3343$Ka1.3007@news01.roc.ny:
>

>Now I try to help other hams and potential hams on radio and on usenet,
>but the usenet hams are so lazy they don't want to learn anything. They
>want licensing to be dumbed down some more.
speack for yourself only please
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From 8131978365343337257
X-Google-Thread: fc2a5,24b1bfeb1baf5aae,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!news2.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 19 Oct 2006 18:53:14 -0500
Date: Thu, 19 Oct 2006 23:53:13 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: question about self resonant frequency
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <6aSdnfruI_Z3kqXYnZ2dnUVZ_r6dnZ2d@bright.net>
Lines: 12
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-
ApG7n+Vobj03gJf048yx30gtYDXdMRJA55BJYBb0mC06TsWVODDL32V9lmTU3Iv4yh20zmnluE71nzg!
Nh8RezN0jMerS4EqrOMx/r41wGxakM/4bCVsSGiFSWgYWrW/4/oZiBCLsarE/yQEkXALsH1ptGjV!
DR0SJckq9Q==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7476

I want to build a low pass filter for 1296 and have scaled a design out of the handbook. I would like to use chip inductors and chip capacitors for the filter. I was looking at thin film chip inductors (Digi-Key) and they list the self resonant frequency. For an inductor passing 1296, what should the minimum self resonant frequency be? Is 10 GHz enough? The filter is a 5 element Chebyshev Low Pass Filter, inductive input (3 coils in series with a cap at each inner junction to ground), Fco=1290 MHz, F-20dB=2600 MHz. Any other component specs I need to be aware of?

Scott
N0EDV

From 3443406336816991721
X-Google-Thread: fc2a5,24b1bfeb1baf5aae
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!peer01.cox.net!cox.net!p01!
dukeread03.POSTED!53ab2750!not-for-mail
From: ab0wr <tgorman2@cox.net>
Subject: Re: question about self resonant frequency
Newsgroups: rec.radio.amateur.homebrew

Reply-To: ab0wr@ab0wr.net
References: <6aSdnfruI_Z3kqXYnZ2dnUVZ_r6dnZ2d@bright.net>
Lines: 25
User-Agent: KNode/0.9.0
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <qj99he.a6p.ln@tg6124.ab0wr.net>
Date: Thu, 19 Oct 2006 19:43:21 -0500
NNTP-Posting-Host: 24.255.226.22
X-Complaints-To: abuse@cox.net
X-Trace: dukeread03 1161306062 24.255.226.22 (Thu, 19 Oct 2006 21:01:02 EDT)
NNTP-Posting-Date: Thu, 19 Oct 2006 21:01:02 EDT
Organization: Cox Communications
Xref: g2news2.google.com rec.radio.amateur.homebrew:7477

Scott wrote:

>
>
> I want to build a low pass filter for 1296 and have scaled a design out
> of the handbook. I would like to use chip inductors and chip capacitors
> for the filter. I was looking at thin film chip inductors (Digi-Key)
> and they list the self resonant frequency. For an inductor passing
> 1296, what should the minimum self resonant frequency be? Is 10 GHz
> enough? The filter is a 5 element Chebyshev Low Pass Filter, inductive
> input (3 coils in series with a cap at each inner junction to ground),
> Fco=1290 MHz, F-20dB=2600 MHz. Any other component specs I need to be
> aware of?
>
> Scott
> N0EDV

10Ghz would be *almost* an order of magnitude away from the frequency of interest. That should be more than sufficient. The higher the self-resonant frequency, the less parallel capacitance is involved which makes "trimming" the filter less involved. At this frequency your capacitors are going to be pretty small. Parasitic capacitances, such as in the inductor, can make things look pretty screwy in a big hurry.

tim ab0wr

From -1834536419063384444
X-Google-Thread: fc2a5,24b1bfeb1baf5aae
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!feeder.news-service.com!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-08!sn-post-ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: question about self resonant frequency

Date: Thu, 19 Oct 2006 18:15:36 -0700
Organization: EZNEC Antenna Software
Message-ID: <12jg8pr4ioq0f0@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <6aSdnfruI_Z3kqXYnZ2dnUVZ_r6dnZ2d@bright.net>
In-Reply-To: <6aSdnfruI_Z3kqXYnZ2dnUVZ_r6dnZ2d@bright.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 25
Xref: g2news2.google.com rec.radio.amateur.homebrew:7478

Scott wrote:
> I want to build a low pass filter for 1296 and have scaled a design out
> of the handbook. I would like to use chip inductors and chip capacitors
> for the filter. I was looking at thin film chip inductors (Digi-Key)
> and they list the self resonant frequency. For an inductor passing
> 1296, what should the minimum self resonant frequency be? Is 10 GHz
> enough? The filter is a 5 element Chebyshev Low Pass Filter, inductive
> input (3 coils in series with a cap at each inner junction to ground),
> Fco=1290 MHz, F-20dB=2600 MHz. Any other component specs I need to be
> aware of?
>
> Scott
> N0EDV

Inductance of the capacitors, capacitance of the inductors, and loss of
both will all affect the quality of the filter. Parasitic inductances
and capacitances in the connecting lines and mounting pads will play a
role also. Your problem probably won't be so much getting decent
response to 2600 MHz (although it won't be easy), but maintaining good
attenuation for some range above that. Take a careful look at the
highest frequency you have to reject and the required attenuation at
that frequency, then decide whether your components will behave as
expected up there.

Roy Lewallen, W7EL

From 1473503191768157572
X-Google-Thread: fc2a5,24b1bfeb1baf5aae
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 19 Oct 2006 20:30:39 -0500
Date: Fri, 20 Oct 2006 01:30:37 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en

MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: question about self resonant frequency
References: <6aSdnfruI_Z3kqXYnZ2dnUVZ_r6dnZ2d@bright.net>
In-Reply-To: <6aSdnfruI_Z3kqXYnZ2dnUVZ_r6dnZ2d@bright.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <CLadnXLYYbMiu6XYnZ2dnUVZ_oOdnZ2d@bright.net>
Lines: 22
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-DGYj+s3jfMz0CoSCPctxlsWUt6N6rtqMG6UgQDUJapbCQ3pwQjlScAcop8pWUiY/1igCu8cyInRS2ad!XHPDFpVkThTaaVyszeCFdK7Cvdsq240D1wRSE0JdK5Q1w/I5ns3/z1OZQXFR2dHHp2kafndGQYV3!poY+xbQQbg==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7479

Thanks for the replies...I will probably give it a go and see what happens. I will order values of inductors and capacitors on both sides of my calculated values and play with the circuit until (if) I can get it to work OK. Maybe an appropriate helical filter might be the way to go...

Scott
N0EDV

Scott wrote:
> I want to build a low pass filter for 1296 and have scaled a design out of the handbook. I would like to use chip inductors and chip capacitors for the filter. I was looking at thin film chip inductors (Digi-Key) and they list the self resonant frequency. For an inductor passing 1296, what should the minimum self resonant frequency be? Is 10 GHz enough? The filter is a 5 element Chebyshev Low Pass Filter, inductive input (3 coils in series with a cap at each inner junction to ground), Fco=1290 MHz, F-20dB=2600 MHz. Any other component specs I need to be aware of?
>
> Scott
> N0EDV

From -3564747548414221870
X-Google-Thread: f64c6,3010b0fa78ab7f95
X-Google-Thread: 107ada,3010b0fa78ab7f95
X-Google-Thread: fc2a5,3010b0fa78ab7f95
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.telenor.com!

news.telenor.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 20 Oct 2006 05:05:56 -0500
From: RuneM <runemadsen@operamail.com>
Subject: Re: What Is Ham Radio?......The FAQ
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Followup-To: uk.radio.amateur
Reply-To: runemadsen@operamail.com
Date: Fri, 20 Oct 2006 12:06:08 +0200
References: <eduk6e$f94$1@emma.aioe.org> <4534523D.4080707@rickfrazier.com>
User-Agent: KNode/0.10.2
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <aq2dnQqvpNIZAqXY4p2dnA@telenor.com>
Lines: 10
NNTP-Posting-Host: 85.165.98.108
X-Trace: sv3-NpkbnPBPDd93iHIOPWfL/
lU3vSjWd+wbUf+5U2KlmH91RffOzDX5kMXAMlGjUfRI9MYcRWiNTsCnJC6!
36Ej2TkhBqZuT1jrVqRif8SWOJ23DtD6OsSvy6DDkpy8Oj3qbxQQUL4JejxruhB+e5bHFG/Ephw=
X-Complaints-To: news-abuse@telenor.net
X-DMCA-Complaints-To: news-abuse@telenor.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com uk.radio.amateur:55663 rec.radio.amateur.misc:24458 rec.radio.amateur.homebrew:7480

Believe me, you do NOT want that to happen, even if it brings
back "civility"! Do you want to live in a police state? One thing is for
sure: I WILL go to WAR (on all levels. it depends) agains my own government
if and when that happens.

Rick Frazier wrote:
> Someday, when we all pay for our posts (it's
> coming, believe me) and we all digitally sign our posts to ensure we are
> who we say we are, then maybe we'll have civility and normalcy come back
> to the newsgroups.

From 9035991656408056541
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news02.roc.ny.POSTED!fd24bd7a!
not-for-mail
From: gwatts <gwatts@frontiernet.net>
User-Agent: Mozilla Thunderbird 1.0.6 (Windows/20050716)

X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<3fpZg.3343$Ka1.3007@news01.roc.ny>
<WpzZg.8967$Lv3.8193@newsread1.news.pas.earthlink.net>
In-Reply-To: <WpzZg.8967$Lv3.8193@newsread1.news.pas.earthlink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 20
Message-ID: <SK3_g.3523$ya1.3365@news02.roc.ny>
X-Complaints-To: abuse-news@frontiernet.net
X-Trace:
52616e646f6d4956490a539f226c80f2598f08cb06bad55823b1fad3e5a51c692f864284a47a8cdd52
eac7b9b5093fdc140b81fcd00c71de7dd0758563cad8207176132d5c28b76bdfbf1960b2e13f7c6b84
0dc5a59621476a7fb03a759525297e46ae8752bd0bf0b5ab3f9ab71336b8cb008dc97c577d90130cf1
77b763abfe
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Fri, 20 Oct 2006 12:59:30 UTC
Date: Fri, 20 Oct 2006 12:59:30 GMT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6069
rec.radio.amateur.homebrew:7482 rec.radio.amateur.policy:50857 rec.radio.swap:8790

Slow Code wrote:
...
>
> Now I try to help other hams and potential hams on radio and on usenet,

No you don't, you come here and grind your ax for some reason. You want to help? Be positive about ham radio, all of ham radio and not just the niche you want to inhabit. Open your eyes, see the whole hobby and realize those that don't share your tastes are just as competent or incompetent as you.

> but the usenet hams are so lazy they don't want to learn anything. They
> want licensing to be dumbed down some more.

Translation: They want to keep up with technology and eliminate testing on methods that are plainly antiquated and waning in usefulness and I don't want things to change so I don't lose my relative (perceived) status among hams.

W8LNA

From -2934299666117179643
X-Google-Thread: fc2a5,3430d6cabf3693e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!cycny01.gnilink.net!
hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe07.lga.POSTED!
53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1161344878.840893.269270@m7g2000cwm.googlegroups.com>
Subject: Re: New Web Site Up & Running...
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <H%4_g.2043$_z4.961@newsfe07.lga>
X-Trace:
fjmkffdeidnncplekannfilpcpbbolnmcnkopnkoakaabnbonicfceledepkikoolhlefpnpglhfdcnhnn
anhoejnhhiemccmbifoooaedibpgndhhbmlhlapmldmhbjeojlggmcfeegpadp
NNTP-Posting-Date: Fri, 20 Oct 2006 07:25:43 MST
Date: Fri, 20 Oct 2006 10:25:38 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:7483

This website has appeared here a number of times before, so it is hardly "new". It's main purpose seems to be to peddle an amplifier which violates 97.315 and 97.317 ... in fact, it seems designed to maximize the number of subparagraphs that may be violated in a single piece of equipment. The website owner appears to be a U.S. based manufacturer (Illinois).

..

"Telstar Electronics" <briangriffey@sbcglobal.net> wrote in message
news:1161344878.840893.269270@m7g2000cwm.googlegroups.com...
> All comments welcome...
>
> www.telstar-electronics.com
>

From -4660269800775063838
X-Google-Thread: fc2a5,24b1bfeb1baf5aae
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 20 Oct 2006 09:59:56 -0500
Date: Fri, 20 Oct 2006 08:00:05 -0700
From: Tim Wescott <tim@seemywebsite.com>

User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: question about self resonant frequency
References: <6aSdnfruI_Z3kqXYnZ2dnUVZ_r6dnZ2d@bright.net>
In-Reply-To: <6aSdnfruI_Z3kqXYnZ2dnUVZ_r6dnZ2d@bright.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <-Ludnf8Og5LxeaXYnZ2dnUVZ_qSdnZ2d@web-ster.com>
Lines: 28
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5RBDbHN0yWzgDlgrM3KIXRLMaD5agNVIsJ2DfNOIZc6FSbbuIb1Q6RLzMAO4+0HHDgCCTnoevFgl!
TV1astpn3fs2qk5n
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7484

Scott wrote:

> I want to build a low pass filter for 1296 and have scaled a design out
> of the handbook. I would like to use chip inductors and chip capacitors
> for the filter. I was looking at thin film chip inductors (Digi-Key)
> and they list the self resonant frequency. For an inductor passing
> 1296, what should the minimum self resonant frequency be? Is 10 GHz
> enough? The filter is a 5 element Chebyshev Low Pass Filter, inductive
> input (3 coils in series with a cap at each inner junction to ground),
> Fco=1290 MHz, F-20dB=2600 MHz. Any other component specs I need to be
> aware of?
>
> Scott
> N0EDV

Why not a microstrip filter? Is it that you must have response from DC
all the way to 1296? Would a "no-tune" bandpass filter be more appropriate?

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From 1709334248400936499
X-Google-Thread: fc2a5,562a2af703918ac7,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-
mail
From: "sjones" <radiofreeq@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Preamp, RF amp and LNA.
Date: 20 Oct 2006 09:46:01 -0700
Organization: http://groups.google.com
Lines: 9
Message-ID: <1161362761.492671.151060@m73g2000cwd.googlegroups.com>
NNTP-Posting-Host: 70.91.208.121
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161362767 24810 127.0.0.1 (20 Oct 2006 16:46:07 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 20 Oct 2006 16:46:07 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1) Gecko/
20061010 Firefox/2.0,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=70.91.208.121;
   posting-account=CBZFsw0AAABcS6uj9s-o_82YLIDSDVjI
Xref: g2news2.google.com rec.radio.amateur.homebrew:7485
```

Hello All,
I was wondering what are the differences between a preamp, RF amp and
an LNA.

I was thinking they are all one and the same. Are there any subtle
differences among them for these names?

Thanks.

```
From -8847602519243383958
X-Google-Thread: fc2a5,562a2af703918ac7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Preamp, RF amp and LNA.
Date: 20 Oct 2006 09:59:01 -0700
Organization: http://groups.google.com
Lines: 45
Message-ID: <1161363541.363183.175980@m7g2000cwm.googlegroups.com>
References: <1161362761.492671.151060@m73g2000cwd.googlegroups.com>
```

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NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161363546 27995 127.0.0.1 (20 Oct 2006 16:59:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 20 Oct 2006 16:59:06 +0000 (UTC)
In-Reply-To: <1161362761.492671.151060@m73g2000cwd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7486
```

sjones wrote:

> Hello All,
> I was wondering what are the differences between a preamp, RF amp and
> an LNA.
>
> I was thinking they are all one and the same. Are there any subtle
> differences among them for these names?
>
> Thanks.

They all refer to amplifiers, and might be used interchangeably in some cases.

A "preamp" is generally a low-level amplifier, and to be practical I'd expect it would have reasonably low noise. Like the name suggests, it goes at the front of a signal chain. It's a name used at RF, but also for audio and even sub-audio work.

An RF amp presumably amplifies radio frequencies. That's a pretty broad frequency range, and the particular amplifier might well be tuned to a very narrow band, or optimized for some modest range of frequencies (such as 140-150MHz). There's nothing in the name that says it's low power. It could be an RF power amplifier, delivering kilowatts of output. The term isn't very descriptive, but you could add adjectives to narrow it down, like "a low-noise 2-meter mast mounted receiver RF amp."

A LNA -- low noise amplifier -- generally refers to an RF preamp with good to very good noise figure, commonly mounted at the antenna so as to not degrade the system noise figure with the loss from a transmission line. Because they are most useful at frequencies where the atmospheric noise is low, you probably wouldn't find LNAs for use at 4MHz, but they are very commonly used on dishes at microwave frequencies. But again, there's nothing in the name that really tells you the frequency range. The name could reasonably be adopted by audio folk dealing with tiny signals from transducers like moving-coil phono cartridges.

And of course, others may have slightly different (or even very different) slants on the meanings.

Cheers,
Tom

```
From -6717623709924876442
X-Google-Thread: fc2a5,24b1bfeb1baf5aae
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-
mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: question about self resonant frequency
Date: 20 Oct 2006 10:11:10 -0700
Organization: http://groups.google.com
Lines: 35
Message-ID: <1161364270.585227.250760@m73g2000cwd.googlegroups.com>
References: <6aSdnfruI_Z3kqXYnZ2dnUVZ_r6dnZ2d@bright.net>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161364276 29969 127.0.0.1 (20 Oct 2006 17:11:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 20 Oct 2006 17:11:16 +0000 (UTC)
In-Reply-To: <6aSdnfruI_Z3kqXYnZ2dnUVZ_r6dnZ2d@bright.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7487
```

Scott wrote:

> I want to build a low pass filter for 1296 and have scaled a design out
> of the handbook. I would like to use chip inductors and chip capacitors
> for the filter. I was looking at thin film chip inductors (Digi-Key)
> and they list the self resonant frequency. For an inductor passing
> 1296, what should the minimum self resonant frequency be? Is 10 GHz
> enough? The filter is a 5 element Chebyshev Low Pass Filter, inductive
> input (3 coils in series with a cap at each inner junction to ground),
> Fco=1290 MHz, F-20dB=2600 MHz. Any other component specs I need to be
> aware of?
>
> Scott
> N0EDV

Adding to what others have already posted, you can simulate the filter, with parasitic resistances and reactances and the inevitable transmission line effects, in the freeware RFSim99. You have to be careful to think about the physical layout, and see everything longer than a couple millimeters as a transmission line. The data sheets on the discrete parts should give you a decent idea about the parasitic R/L/C of each package. RFSim99 includes the ability to model self-resonance and Q in inductors and capacitors without adding more parts to the schematic; just check the "use physical model" box for those parts you want to specify for Q and SRF.

And I'd echo what Tim wrote, too: you might want to consider a distributed filter, especially if you can make a PC board with reasonable accuracy. Also, if the goal is to kill harmonics of a single narrow band, you may do better with notches at the harmonic frequencies.

Cheers,
Tom

From 66481811856231673
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X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-mail
From: "zinda" <zen@lineisp.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: maxtronics/rf parts (cali) pcb
Date: 20 Oct 2006 11:32:03 -0700
Organization: http://groups.google.com
Lines: 9
Message-ID: <1161369123.693710.136390@e3g2000cwe.googlegroups.com>
NNTP-Posting-Host: 80.42.110.181
Mime-Version: 1.0
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 20 Oct 2006 18:32:18 +0000 (UTC)
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Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=80.42.110.181;
   posting-account=Xsmrfg0AAAAyipik-exNZS-B7p3MDtX4
Xref: g2news2.google.com rec.radio.amateur.homebrew:7488

well i bought the pcb from rf parts..it arrived today..but i forgot to order the pcb layout info..its for the 140w push pull amp based on the motorola design..anyone got the pcb layout info please?????

i wanna build it,and i know i could work it all out ,but it will save hours of work if someone (prehaps in the usa)has the info...

thanks g0zen

```
From -1361966913387188794
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X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-
mail
From: paul@burridge8333.fsbusiness.co.uk
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: PSUs: current-limiting and crowbarring - incompatible?
Date: 20 Oct 2006 13:28:19 -0700
Organization: http://groups.google.com
Lines: 14
Message-ID: <1161376099.831229.27070@b28g2000cwb.googlegroups.com>
NNTP-Posting-Host: 83.129.181.7
Mime-Version: 1.0
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X-Trace: posting.google.com 1161376105 5516 127.0.0.1 (20 Oct 2006 20:28:25 GMT)
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NNTP-Posting-Date: Fri, 20 Oct 2006 20:28:25 +0000 (UTC)
User-Agent: G2/1.0
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5.0),gzip(gfe),gzip(gfe)
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Injection-Info: b28g2000cwb.googlegroups.com; posting-host=83.129.181.7;
   posting-account=BJIwyQ0AAADYc2s0ibgcfLhv1YMODBci
Xref: g2news2.google.com rec.radio.amateur.homebrew:7489
sci.electronics.design:112189
```

Hi gang,

Is it not feasible to use a crowbar circuit across a PSU's output if that PSU has a current-limiting feature? I can imagine a situation arising where an over-voltage causes the crowbar to close, generating a short-circuit condition which activates the current limiting. The output will then be stuck at not enough amps to blow the upstream fuse, but enough current to smoke the crowbar (which is not designed to be kept conducting for any length of time of course). Is there some way to have both over-current and over-voltage protection working together in harmony?
Thanks.
p.

```
From 6659746520448426797
```

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X-Google-Thread: fc2a5,df5bd0c7ad5e83f1
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.maxwell.syr.edu!newsfeed.icl.net!
newsfeed.fjserv.net!colt.net!feeder.news-service.com!txtfeed1.tudelft.nl!
tudelft.nl!txtfeed2.tudelft.nl!newsfeeder.wxs.nl!divide.nova.planet.nl!
posting.nova.planet.nl!not-for-mail
From: nico@puntnl.niks (Nico Coesel)
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: PSUs: current-limiting and crowbarring - incompatible?
Date: Fri, 20 Oct 2006 20:51:24 GMT
Message-ID: <4539362e.1382290348@news.kpnplanet.nl>
References: <1161376099.831229.27070@b28g2000cwb.googlegroups.com>
X-Newsreader: Forte Free Agent 1.21/32.243
Lines: 23
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X-Trace: 1161377583 news.kpnplanet.nl 4877 81.207.51.66:64633
X-Complaints-To: abuse@direct-adsl.nl
Xref: g2news2.google.com rec.radio.amateur.homebrew:7490
sci.electronics.design:112198

paul@burridge8333.fsbusiness.co.uk wrote:

>Hi gang,
>
>Is it not feasible to use a crowbar circuit across a PSU's output if
>that PSU has a current-limiting feature? I can imagine a situation
>arising where an over-voltage causes the crowbar to close, generating a
>short-circuit condition which activates the current limiting. The
>output will then be stuck at not enough amps to blow the upstream fuse,
>but enough current to smoke the crowbar (which is not designed to be
>kept conducting for any length of time of course). Is there some way to
>have both over-current and over-voltage protection working together in
>harmony?
>Thanks.

I see no problem. If the crowbar is active, the voltage accross it is
about 0V so power dissipation in the crowbar device is minimal. You
could probably use a SOT23 trenchFET as a crowbar which would be
capable of handling a few amps.

--
Reply to nico@nctdevpuntnl (punt=.)
Bedrijven en winkels vindt U op www.adresboekje.nl


From -8716012305892284715
X-Google-Thread: fc2a5,df5bd0c7ad5e83f1
X-Google-Thread: 112d1e,df5bd0c7ad5e83f1
X-Google-Attributes: gidfc2a5,gid112d1e,public
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Path: g2news2.google.com!news3.google.com!news2.volia.net!news.germany.com!
```

feeder.news-service.com!feeder2.cambrium.nl!feeder3.cambrium.nl!feed.tweaknews.nl!
138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-05!sn-ams!sn-feed-ams-02!sn-post-
ams-01!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: PSUs: current-limiting and crowbarring - incompatible?
Date: Fri, 20 Oct 2006 14:17:42 -0700
Organization: EZNEC Antenna Software
Message-ID: <12jif7pd4ortmde@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <1161376099.831229.27070@b28g2000cwb.googlegroups.com>
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X-Complaints-To: abuse@supernews.com
Lines: 23
Xref: g2news2.google.com rec.radio.amateur.homebrew:7491
sci.electronics.design:112210

Most supplies I've seen with both crowbar and current limiting use fold-back current limiting. When the current exceeds the set limit (due to too heavy a load or to the crowbar firing), the current drops back to a level considerably lower than the limit current, and one which the crowbar can tolerate indefinitely.

Roy Lewallen

paul@burridge8333.fsbusiness.co.uk wrote:
> Hi gang,
>
> Is it not feasible to use a crowbar circuit across a PSU's output if
> that PSU has a current-limiting feature? I can imagine a situation
> arising where an over-voltage causes the crowbar to close, generating a
> short-circuit condition which activates the current limiting. The
> output will then be stuck at not enough amps to blow the upstream fuse,
> but enough current to smoke the crowbar (which is not designed to be
> kept conducting for any length of time of course). Is there some way to
> have both over-current and over-voltage protection working together in
> harmony?
> Thanks.
> p.
>

From -8856328856311063256
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news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 20 Oct 2006 16:34:44 -0500

Date: Fri, 20 Oct 2006 21:34:43 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
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Newsgroups: rec.radio.amateur.homebrew
Subject: Re: question about self resonant frequency
References: <6aSdnfruI_Z3kqXYnZ2dnUVZ_r6dnZ2d@bright.net> <-
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In-Reply-To: <-Ludnf8Og5LxeaXYnZ2dnUVZ_qSdnZ2d@web-ster.com>
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Omk23ol1SQ==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7492

Well, it might, but I'm not 100% sure how to determine the lengths and widths of the microstrips. (On my present project, I'm trying an open 1/4 wavelength 50 ohm stripline that I can trim down in length in an attempt to make that line a "short" at the 2nd harmonic.)

The filter only needs to pass from about 1296 to 1300 MHz. I like the idea of a helical filter (except for the cost!) with steep skirts and since my I.F. will be 432 MHz, it will be far enough away so the image will be quite a ways removed and should be way down in level after the filter.

Scott
N0EDV

Tim Wescott wrote:

>
>
> Why not a microstrip filter? Is it that you must have response from DC
> all the way to 1296? Would a "no-tune" bandpass filter be more
> appropriate?
>

From -8582159679613847479
X-Google-Thread: fc2a5,24b1bfeb1baf5aae
X-Google-Attributes: gidfc2a5,public
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Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 20 Oct 2006 16:41:31 -0500
Date: Fri, 20 Oct 2006 21:41:29 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: question about self resonant frequency
References: <6aSdnfruI_Z3kqXYnZ2dnUVZ_r6dnZ2d@bright.net>
<1161364270.585227.250760@m73g2000cwd.googlegroups.com>
In-Reply-To: <1161364270.585227.250760@m73g2000cwd.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
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07yLr/kNLw==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7493

That's exactly what I'm trying on my present project at 902. I have a 50 microstrip line on the circuit board where the RF connector hooks up. I will etch it to be a 1/4 wavelength at 1802 MHz (2nd harmonic) and see how that works. If it works OK, I may try the same at 1296...I might also go with a helical filter...they work nice but can be a bit pricey!

Scott
N0EDV

K7ITM wrote:

Also, if the goal is to kill harmonics of a
> single narrow band, you may do better with notches at the harmonic
> frequencies.
>

> Cheers,
> Tom
>

From -4496861980489111099
X-Google-Thread: fc2a5,df5bd0c7ad5e83f1
X-Google-Thread: 112d1e,df5bd0c7ad5e83f1
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: PSUs: current-limiting and crowbarring - incompatible?
Date: 20 Oct 2006 14:53:39 -0700
Organization: http://groups.google.com
Lines: 18
Message-ID: <1161381219.299054.54110@k70g2000cwa.googlegroups.com>
References: <1161376099.831229.27070@b28g2000cwb.googlegroups.com>
NNTP-Posting-Host: 63.73.218.131
Mime-Version: 1.0
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 20 Oct 2006 21:53:44 +0000 (UTC)
In-Reply-To: <1161376099.831229.27070@b28g2000cwb.googlegroups.com>
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Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=63.73.218.131;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news2.google.com rec.radio.amateur.homebrew:7494 sci.electronics.design:112224

paul@burridge8333.fsbusiness.co.uk wrote:
> Hi gang,
>
> Is it not feasible to use a crowbar circuit across a PSU's output if
> that PSU has a current-limiting feature? I can imagine a situation
> arising where an over-voltage causes the crowbar to close, generating a
> short-circuit condition which activates the current limiting. The
> output will then be stuck at not enough amps to blow the upstream fuse,
> but enough current to smoke the crowbar (which is not designed to be
> kept conducting for any length of time of course). Is there some way to
> have both over-current and over-voltage protection working together in
> harmony?
> Thanks.

Look up "Foldback current limiting".

Tim.

From 2132301935323201995
X-Google-Thread: fc2a5,df5bd0c7ad5e83f1
X-Google-Thread: 112d1e,df5bd0c7ad5e83f1
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-mail
From: "Tom Bruhns" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: PSUs: current-limiting and crowbarring - incompatible?
Date: 20 Oct 2006 14:55:56 -0700
Organization: http://groups.google.com
Lines: 29
Message-ID: <1161381356.461962.287640@b28g2000cwb.googlegroups.com>
References: <1161376099.831229.27070@b28g2000cwb.googlegroups.com>
   <12jif7pd4ortmde@corp.supernews.com>
NNTP-Posting-Host: 192.25.240.225
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Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161381361 23452 127.0.0.1 (20 Oct 2006 21:56:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 20 Oct 2006 21:56:01 +0000 (UTC)
In-Reply-To: <12jif7pd4ortmde@corp.supernews.com>
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Complaints-To: groups-abuse@google.com
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   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7495 sci.electronics.design:112225

Roy Lewallen wrote:

> Most supplies I've seen with both crowbar and current limiting use fold-back current limiting. When the current exceeds the set limit (due to too heavy a load or to the crowbar firing), the current drops back to a level considerably lower than the limit current, and one which the crowbar can tolerate indefinitely.

Yeah, and not only the crowbar, but the supply itself can likely tolerate it better! :-) Especially if it's a linear supply. Paul: imagine a linear supply designed to deliver 24V at a couple amps. The input to the regulator part might well be nominally 30 volts or more, to accomodate low line input and drop in the regulator pass element. At high line, it might be 33V. In normal operation, the regulator might drop 9 volts at a couple amps, dissipating 18 watts. An SCR crowbar might drop 1.5V. At 2 amps, that only 3 watts, but the regulator would be dissipating over 60 watts. But with foldback limiting, the dissipation would drop in both the SCR and the regulator,

staying in pretty much a constant ratio. With a switching regulator,
things probably wouldn't be nearly as bad, but the dissipation may
still go up in the switching parts if you short the output.

The other thing I've seen is a crowbar for fast response, and a
latching shutdown fed back to the supply that holds it off until
something is reset.

Cheers,
Tom

From 535421212554127876
X-Google-Thread: fc2a5,df5bd0c7ad5e83f1
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stamper.news.pas.earthlink.net!newsread1.news.pas.earthlink.net.POSTED!ead9a4f6!
not-for-mail
From: "Ralph Mowery" <rmowery28146@earthlink.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
References: <1161376099.831229.27070@b28g2000cwb.googlegroups.com>
Subject: Re: current-limiting and crowbarring - incompatible?
Lines: 25
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <sac_g.10038$Lv3.222@newsread1.news.pas.earthlink.net>
Date: Fri, 20 Oct 2006 22:35:04 GMT
NNTP-Posting-Host: 24.225.35.108
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1161383704 24.225.35.108 (Fri, 20 Oct
2006 15:35:04 PDT)
NNTP-Posting-Date: Fri, 20 Oct 2006 15:35:04 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:7496
sci.electronics.design:112233

<paul@burridge8333.fsbusiness.co.uk> wrote in message
news:1161376099.831229.27070@b28g2000cwb.googlegroups.com...
> Hi gang,
>
> Is it not feasible to use a crowbar circuit across a PSU's output if
> that PSU has a current-limiting feature? I can imagine a situation
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> short-circuit condition which activates the current limiting. The
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> have both over-current and over-voltage protection working together in
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> Thanks.
> p.
>

Look up the Astron supplies. They will go into a current limiating mode if the over voltage protection activates. That is if there is a spike or something. Most of the time something fails (say the pass transistors) that makes the supply go into the over voltage condition and due to the failed component the supply can not go into the current limit mode.

From 4086924045898464002
X-Google-Thread: fc2a5,ceae4e35fd487976
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 20 Oct 2006 18:03:26 -0500
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1161369123.693710.136390@e3g2000cwe.googlegroups.com>
Subject: Re: maxtronics/rf parts (cali) pcb
Date: Fri, 20 Oct 2006 18:03:33 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <JbednSNxMZcjyKTYnZ2dnUVZ_sudnZ2d@comcast.com>
Lines: 31
NNTP-Posting-Host: 67.176.141.93
X-Trace: sv3-EXbkrBbNUkoQCCSjxbyVA1xYsoQ3n1f+Hdx1tY8hvw6lySmFpaNiSSR5znz/
ji4BN2OaCnZRn7sElLt!QXIBDjm4YSqBxsaSNVcBS5IRP5hR7Iy2vJDT1ImmMsHLhcrbyh54YWyqs6HXS/
9d1oWNtbDBLPzb!DqVRAroocCJ3Jq1pRuU=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7497

"zinda" <zen@lineisp.co.uk> wrote in message
news:1161369123.693710.136390@e3g2000cwe.googlegroups.com...
> well i bought the pcb from rf parts..it arrived today..but i forgot to
> order the pcb layout info..its for the 140w push pull amp based on the

> motorola design..anyone got the pcb layout info please?????
>
> i wanna build it,and i know i could work it all out ,but it will save
> hours of work if someone (prehaps in the usa)has the info...
>
> thanks g0zen
>

Well, most of Helge Granberg's Application Notes are on the Internet (in
various places)

Mike Grierson G3TSO built his 140 watt HF amplifier also based upon Helge's
design,
using the Communication Concepts (CCI) printed circuit board.

Was this the VHF (2-meter) or HF amplifier TX100F from RF Parts ?

http://www.rfparts.com/caoml.html

http://www.rfparts.com/pcb.html#pcbf1

w9gb

From 1183640189233716849
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
From: Slow Code <my.mail@no.spam>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<3fpZg.3343$Ka1.3007@news01.roc.ny>
<WpzZg.8967$Lv3.8193@newsread1.news.pas.earthlink.net>
<SK3_g.3523$ya1.3365@news02.roc.ny>
Organization: None

```
User-Agent: Xnews/5.04.25
Lines: 30
Message-ID: <2cd_g.10071$Lv3.763@newsread1.news.pas.earthlink.net>
Date: Fri, 20 Oct 2006 23:45:02 GMT
NNTP-Posting-Host: 4.254.230.107
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1161387902 4.254.230.107 (Fri, 20 Oct
2006 16:45:02 PDT)
NNTP-Posting-Date: Fri, 20 Oct 2006 16:45:02 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6077
rec.radio.amateur.homebrew:7498 rec.radio.amateur.policy:50938 rec.radio.swap:8799
```

gwatts <gwatts@frontiernet.net> wrote in
news:SK3_g.3523$ya1.3365@news02.roc.ny:

> Slow Code wrote:
> ...
>>
>> Now I try to help other hams and potential hams on radio and on usenet,
>
> No you don't, you come here and grind your ax for some reason. You want
> to help? Be positive about ham radio, all of ham radio and not just the
> niche you want to inhabit. Open your eyes, see the whole hobby and
> realize those that don't share your tastes are just as competent or
> incompetent as you.
>
>> but the usenet hams are so lazy they don't want to learn anything. They
>> want licensing to be dumbed down some more.
>
> Translation: They want to keep up with technology and eliminate testing
> on methods that are plainly antiquated and waning in usefulness and I
> don't want things to change so I don't lose my relative (perceived)
> status among hams.
>
> W8LNA
>

What has everyone got against having good effective communicators?
Sheesh, I'm I the only one that wants good hams?

SC

```
From 4759228163023573401
X-Google-Thread: fc2a5,ceae4e35fd487976
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-
mail
From: "zinda" <zen@lineisp.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: maxtronics/rf parts (cali) pcb
```

```
Date: 20 Oct 2006 16:52:14 -0700
Organization: http://groups.google.com
Lines: 40
Message-ID: <1161388334.181375.127880@h48g2000cwc.googlegroups.com>
References: <1161369123.693710.136390@e3g2000cwe.googlegroups.com>
   <JbednSNxMZcjyKTYnZ2dnUVZ_sudnZ2d@comcast.com>
NNTP-Posting-Host: 80.42.63.226
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161388340 26902 127.0.0.1 (20 Oct 2006 23:52:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 20 Oct 2006 23:52:20 +0000 (UTC)
In-Reply-To: <JbednSNxMZcjyKTYnZ2dnUVZ_sudnZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h48g2000cwc.googlegroups.com; posting-host=80.42.63.226;
   posting-account=Xsmrfg0AAAAyipik-exNZS-B7p3MDtX4
Xref: g2news2.google.com rec.radio.amateur.homebrew:7499
```

w9gb wrote:
> "zinda" <zen@lineisp.co.uk> wrote in message
> news:1161369123.693710.136390@e3g2000cwe.googlegroups.com...
> > well i bought the pcb from rf parts..it arrived today..but i forgot to
> > order the pcb layout info..its for the 140w push pull amp based on the
> > motorola design..anyone got the pcb layout info please?????
> >
> > i wanna build it,and i know i could work it all out ,but it will save
> > hours of work if someone (prehaps in the usa)has the info...
> >
> > thanks g0zen
> >
>
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> various places)
>
> Mike Grierson G3TSO built his 140 watt HF amplifier also based upon Helge's
> design,
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>
> Was this the VHF (2-meter) or HF amplifier TX100F from RF Parts ?
>
> http://www.rfparts.com/caoml.html
>
> http://www.rfparts.com/pcb.html#pcbf1
>
> w9gb

it was the tx100 i guess...anyway the links you put up are the ones i
have..(except the component layout ,as i forgot to order!!)

yes you are correct in stating they are based on h.granbergs designs,which i have,as i stated i guess i could work it out,but it would be much easier to know the component layout for this pcb..as it is not exactly as per his design..

regards

```
From -2816290129840787552
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns14feed!worldnet.att.net!209.244.4.230!
newsfeed1.dallas1.level3.net!news.level3.com!mencken.net.nih.gov!elk.ncren.net!
usenet01.sei.cmu.edu!news.cse.ohio-state.edu!news.maxwell.syr.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.org
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: Fri, 20 Oct 2006 20:20:01 -0400
Message-ID: <fspij291c7ulmrfoe6h6uogqe8j62os27s@4ax.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<3fpZg.3343$Ka1.3007@news01.roc.ny>
<WpzZg.8967$Lv3.8193@newsread1.news.pas.earthlink.net>
<SK3_g.3523$ya1.3365@news02.roc.ny>
<2cd_g.10071$Lv3.763@newsread1.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 36
NNTP-Posting-Date: 20 Oct 2006 23:24:58 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6078
rec.radio.amateur.homebrew:7501 rec.radio.amateur.policy:50945 rec.radio.swap:8801
```

On Fri, 20 Oct 2006 23:45:02 GMT, Slow Code <my.mail@no.spam> wrote:

>gwatts <gwatts@frontiernet.net> wrote in
>news:SK3_g.3523$ya1.3365@news02.roc.ny:
>

```
>> Slow Code wrote:
>> ...
>>>
>>> Now I try to help other hams and potential hams on radio and on usenet,
>>
>> No you don't, you come here and grind your ax for some reason.  You want
>> to help?  Be positive about ham radio, all of ham radio and not just the
>> niche you want to inhabit.  Open your eyes, see the whole hobby and
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>> on methods that are plainly antiquated and waning in usefulness  and I
>> don't want things to change so I don't lose my relative (perceived)
>> status among hams.
>>
>> W8LNA
>>
>
>
>What has everyone got against having good effective communicators?
no body but you is aginst effective comms
>Sheesh, I'm I the only one that wants good hams?

you are one those that wants to exclude Good hams
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From 231177154313880420
X-Google-Thread: fc2a5,ceae4e35fd487976
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 20 Oct 2006 19:55:49 -0500
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1161369123.693710.136390@e3g2000cwe.googlegroups.com>
<JbednSNxMZcjyKTYnZ2dnUVZ_sudnZ2d@comcast.com>
<1161388334.181375.127880@h48g2000cwc.googlegroups.com>
Subject: Re: maxtronics/rf parts (cali) pcb
Date: Fri, 20 Oct 2006 19:55:56 -0500
X-Priority: 3
```

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <vvadnZowSceI7aTYnZ2dnUVZ_tOdnZ2d@comcast.com>
Lines: 37
NNTP-Posting-Host: 67.176.141.93
X-Trace: sv3-
mPRd8IS9Zg0IVfnMvX7T6hpQ8oHzF5v09LU8WcLKVgVA44N4ZydeUb+CdDd6as1gPwyTIbLDBpv8pZk!
eNzJBK82KHqRmrN5B6c148u6QL8byF7kcEorsnqkcrlRIKG8KVf/A931Yo9lv8ziG1Y3iO+R6Yxc!r/
8LN0BtQqE4MA23ED4=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7502

"zinda" <zen@lineisp.co.uk> wrote in message
news:1161388334.181375.127880@h48g2000cwc.googlegroups.com...
>
> w9gb wrote:
>>
>> Was this the VHF (2-meter) or HF amplifier TX100F from RF Parts ?
>>
>> http://www.rfparts.com/caoml.html
>>
>> http://www.rfparts.com/pcb.html#pcbf1
>>
>> w9gb
>
>
> it was the tx100 i guess...anyway the links you put up are the ones i
> have..(except the component layout ,as i forgot to order!!)
>
> yes you are correct in stating they are based on h.granbergs
> designs,which i have,as i stated i guess i could work it out,but it
> would be much easier to know the component layout for this pcb..as it
> is not exactly as per his design..
>
> regards
>
You are correct -- this RF Parts kit product is NOT a duplicate of Helge's
design as found in the Application bulletins.

As you have realized you should have ordered the "Plans kit" -- which
included the TX100 circuit board
and the component layout instructions/building that you need.
They just went home (California) for weekend about 2 hours ago --
so send them an e-mail or contact them next week.
http://www.rfparts.com/Contact.html

w9gb

From -4135234244954295O7
X-Google-Thread: fc2a5,ceae4e35fd487976
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 20 Oct 2006 19:57:24 -0500
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1161369123.693710.136390@e3g2000cwe.googlegroups.com>
<JbednSNxMZcjyKTYnZ2dnUVZ_sudnZ2d@comcast.com>
<1161388334.181375.127880@h48g2000cwc.googlegroups.com>
Subject: Re: maxtronics/rf parts (cali) pcb
Date: Fri, 20 Oct 2006 19:57:31 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <StCdnQkQG_ro7aTYnZ2dnUVZ_rmdnZ2d@comcast.com>
Lines: 28
NNTP-Posting-Host: 67.176.141.93
X-Trace: sv3-
ODuyKHHvQET+jQ8H9N9sJ4FYfH5HPfW8hxRKlxiEcyRagrrSxe5ExjXRYLUfl3CEEAvGYXHtqwHfeVO!
cThjLU2renbQYeegaJnxp3qlLld5YZJf2f2s+YnD39HoipJq3lF84gfFP6Jkq0zpZaExY3lbrVD6!
j427QDZxAW0PdQMQxW8=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7503

"zinda" <zen@lineisp.co.uk> wrote in message
news:1161388334.181375.127880@h48g2000cwc.googlegroups.com...
>
> it was the tx100 i guess...anyway the links you put up are the ones i
> have..(except the component layout ,as i forgot to order!!)
>
> yes you are correct in stating they are based on h.granbergs
> designs,which i have,as i stated i guess i could work it out,but it
> would be much easier to know the component layout for this pcb..as it
> is not exactly as per his design..
>
> regards
>

All Customer Service, please e-mail: mailto:customerservice@rfparts.com

We endeavor to respond to all e-mails within 24 hours (with the exception of weekends). To help, please keep this in mind:

. E-mails sent Monday-Friday before noon PST are usually answered same day.
. E-mails sent Friday after noon are usually answered on Monday.
. E-mails sent on Saturday and Sunday are answered on Monday.

While e-mail is very convenient, it is not the quickest method to reach us. For faster service, or in case of emergency, please call us at (760) 744-0700.

From -3175697313222180110
X-Google-Thread: fc2a5,24b1bfeb1baf5aae
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!sn-xt-sjc-04!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: question about self resonant frequency
Date: Fri, 20 Oct 2006 18:13:29 -0700
Organization: EZNEC Antenna Software
Message-ID: <12jit1t2sl5icc0@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <6aSdnfruI_Z3kqXYnZ2dnUVZ_r6dnZ2d@bright.net> <1161364270.585227.250760@m73g2000cwd.googlegroups.com> <-eOdnXCaosoW36TYnZ2dnUVZ_u2dnZ2d@bright.net>
In-Reply-To: <-eOdnXCaosoW36TYnZ2dnUVZ_u2dnZ2d@bright.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 21
Xref: g2news2.google.com rec.radio.amateur.homebrew:7504

Scott wrote:
> That's exactly what I'm trying on my present project at 902. I have a
> 50 microstrip line on the circuit board where the RF connector hooks up.
> I will etch it to be a 1/4 wavelength at 1802 MHz (2nd harmonic) and
> see how that works. If it works OK, I may try the same at 1296...I
> might also go with a helical filter...they work nice but can be a bit
> pricey!

Isn't it possible to make a helical resonator with a helix of wire inside a box made from soldered-together pieces of PC board?(*) A filter could be made from a series of these. The Q might not be optimum, but should be good enough for a lot of purposes.

(*) I actually made a two-resonator filter for 450 MHz using this method long ago, but it didn't work well. I came across it recently and checked it with a network analyzer -- I had no decent test equipment back when I made it -- and found that the sections were severely undercoupled. But I haven't tried modifying it to see if it could have been made to work as intended.

Roy Lewallen, W7EL

```
From -774363189511508488
X-Google-Thread: fc2a5,24b1bfeb1baf5aae
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 20 Oct 2006 20:36:47 -0500
Date: Sat, 21 Oct 2006 01:36:46 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: question about self resonant frequency
References: <6aSdnfruI_Z3kqXYnZ2dnUVZ_r6dnZ2d@bright.net>
<1161364270.585227.250760@m73g2000cwd.googlegroups.com> <-
eOdnXCaosoW36TYnZ2dnUVZ_u2dnZ2d@bright.net> <12jit1t2sl5icc0@corp.supernews.com>
In-Reply-To: <12jit1t2sl5icc0@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <O7idnQMFRagt5KTYnZ2dnUVZ_vqdnZ2d@bright.net>
Lines: 38
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-ucoYQgkOXy5pY0dSxSGx0xsdPHMGkIuRHG767C2ZkDxaRQpHV+HmyKiKGH7CZBG32/
emvu3bothH3ir!T//H8EZjLQMdn1aCz9bexSB4ImhWxWGZX8htwwn2SWJWrgp8/
U0bKBddlGhZ6EDgBZ1D5Db89+cv!H9hZK9uFcQ==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7505
```

Yes, that's all a helical filter appears to be...a coil inside a metal box. I have no idea how many turns, turn spacing and anything else that might be important to the design of one. Fortunately, Downeast Microwave sells a bunch of different helicals for a LOT less than Digikey, but I need the 1305 MHz set and I don't see them at DEMI, so I'll have to fork out $26 each from Digikey (and probably will end up using two) ;(

Scott
N0EDV

Roy Lewallen wrote:
> Scott wrote:
>
>> That's exactly what I'm trying on my present project at 902. I have a
>> 50 microstrip line on the circuit board where the RF connector hooks
>> up. I will etch it to be a 1/4 wavelength at 1802 MHz (2nd harmonic)
>> and see how that works. If it works OK, I may try the same at
>> 1296...I might also go with a helical filter...they work nice but can
>> be a bit pricey!
>
>
> Isn't it possible to make a helical resonator with a helix of wire
> inside a box made from soldered-together pieces of PC board?(*) A filter
> could be made from a series of these. The Q might not be optimum, but
> should be good enough for a lot of purposes.
>
> (*) I actually made a two-resonator filter for 450 MHz using this method
> long ago, but it didn't work well. I came across it recently and checked
> it with a network analyzer -- I had no decent test equipment back when I
> made it -- and found that the sections were severely undercoupled. But I
> haven't tried modifying it to see if it could have been made to work as
> intended.
>
> Roy Lewallen, W7EL

From 93132693448692647
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-mail
From: hot-ham-and-cheese@hotmail.com
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: 20 Oct 2006 20:04:36 -0700
Organization: http://groups.google.com
Lines: 32
Message-ID: <1161399876.591042.314920@k70g2000cwa.googlegroups.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>

```
   <1161091728.610995.236060@m7g2000cwm.googlegroups.com>
   <1161108371.016803.159340@h48g2000cwc.googlegroups.com>
   <pi9Zg.46947$nm1.8930@fed1read04>
   <1161119301.113067.200270@b28g2000cwb.googlegroups.com>
   <JpzZg.8966$Lv3.8914@newsread1.news.pas.earthlink.net>
NNTP-Posting-Host: 4.224.231.167
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161399893 20681 127.0.0.1 (21 Oct 2006 03:04:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 21 Oct 2006 03:04:53 +0000 (UTC)
In-Reply-To: <JpzZg.8966$Lv3.8914@newsread1.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=4.224.231.167;
   posting-account=mMyuWQ0AAAANPpX1wK2NRuuQfAjm_kIo
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6080
rec.radio.amateur.homebrew:7506 rec.radio.amateur.policy:51005 rec.radio.swap:8807
```

Slow Code wrote:
> hot-ham-and-cheese@hotmail.com wrote in
> news:1161119301.113067.200270@b28g2000cwb.googlegroups.com:
>
> >
> > Caveat Lector wrote:
> >> When you passed the FCC exam - you are an Amateur Radio Operator period
> >> -- plain and simple.
> >>
> >> Whether you passed a 20 wpm code test or no code - you are a Ham
> >>
> >> Whether you had to draw the schematic for a Colpitts Oscillator or not
> >> - you are a Ham
> >>
> >> Whether you faced the steely-eyed FCC examiner or a VE -- you are a Ham
> >>
> >> Those who say otherwise are shrouded in elitism and a synonym for
> >> elitism is snobbery - plain and simple
> >>
> >> This is 2006, not 1920
> >>
> >> CL
> >
> > You got that right.
>
> It's nice to see a couple 11 meter jockeys agreeing with each other.
>
> SC

Looks like Bruce and Dan are back...

From 5317937485998982939
X-Google-Thread: fc2a5,24b1bfeb1baf5aae
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 20 Oct 2006 23:04:53 -0500
From: "Jim" <kill-spam@no-spam.org>
Newsgroups: rec.radio.amateur.homebrew
References: <6aSdnfruI_Z3kqXYnZ2dnUVZ_r6dnZ2d@bright.net>
<1161364270.585227.250760@m73g2000cwd.googlegroups.com> <-
eOdnXCaosoW36TYnZ2dnUVZ_u2dnZ2d@bright.net> <12jit1t2sl5icc0@corp.supernews.com>
<O7idnQMFRagt5KTYnZ2dnUVZ_vqdnZ2d@bright.net>
Subject: Re: question about self resonant frequency
Date: Fri, 20 Oct 2006 21:04:52 -0700
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 0642-5, 10/20/2006), Outbound message
X-Antivirus-Status: Clean
Message-ID: <WuudnZUWMZT4AaTYnZ2dnUVZ_qadnZ2d@comcast.com>
Lines: 24
NNTP-Posting-Host: 71.198.121.37
X-Trace: sv3-F3v4Fw9GLjnMqQ/
S55axIyHTbuPftlj6OX4Jx7UDnJpT5LvV2xGUuvTN1+Cd0jEC7ThyCT0caIk7iHo!V4Cl5QCpncz/
KO7I5BWmW7P9KI8r5A40HWtkx4Wa3VBXmUUyaLrTv2Xj/A70WaBmZDbZYrIMrtQT!
0GrP6Q4+Xhlajj0Q8OGl5gf4QQ==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7507

Offhand, I'd be tempted to use an interdigital filter. There was a nice article about this, including a computer program in basic for the caculations in Ham Radio magizine, Ummm... November 1985 (?).

I used this in a 2400 MHz filter I needed one time and I found the skirt selectivity to be pretty good. Of course, like a lot of wavelength related filters, it had harmonic responses, but a low pass filter fixed that quite nicely.

Jim Pennell
N6BIU

--

21:05 Pacific Time Zone
Oct 20 2006

International Time
04:05 UTC
21.10.2006

From -5127944029070885936
X-Google-Thread: fc2a5,df5bd0c7ad5e83f1
X-Google-Thread: 112d1e,df5bd0c7ad5e83f1
X-Google-Attributes: gidfc2a5,gid112d1e,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news1.google.com!news3.google.com!news.glorb.com!
proxad.net!cleanfeed1-a.proxad.net!nnrp10-1.free.fr!not-for-mail
Date: Sat, 21 Oct 2006 12:00:56 +0200
From: Fred Bartoli <fred._canxxxel_this_bartoli@RemoveThatAlso_free.fr_AndThisToo>
Reply-To: fred._canxxxel_this_bartoli@RemoveThatAlso_free.fr_AndThisToo
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design
Subject: Re: PSUs: current-limiting and crowbarring - incompatible?
References: <1161376099.831229.27070@b28g2000cwb.googlegroups.com>
<12jif7pd4ortmde@corp.supernews.com>
<1161381356.461962.287640@b28g2000cwb.googlegroups.com>
In-Reply-To: <1161381356.461962.287640@b28g2000cwb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
X-Antivirus: avast! (VPS 0642-5, 20/10/2006), Outbound message
X-Antivirus-Status: Clean
Lines: 27
Message-ID: <4539efeb$0$21893$426a74cc@news.free.fr>
Organization: Guest of ProXad - France
NNTP-Posting-Date: 21 Oct 2006 12:01:19 MEST
NNTP-Posting-Host: 82.253.227.235
X-Trace: 1161424879 news-3.free.fr 21893 82.253.227.235:2637
X-Complaints-To: abuse@proxad.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:7508
sci.electronics.design:112311

Tom Bruhns a �crit :
<>

> With a switching regulator,
> things probably wouldn't be nearly as bad, but the dissipation may
> still go up in the switching parts if you short the output.
>

One pb with SMPS is that when you crowbar its output the input current
is lowered since you ask for lower output power. You'll never blow the fuse.
Another point, depending on the SMPS structure and on the controller
minimum on time is that you have pretty low output voltage when
crowbared (?) which may be too low to reset the inductor current (for
ex. flyback, buck).
In some poorly design supplies this might lead to higher and higher
switch/diode currents, inductor saturation, sill higher currents and
then fireworks.
I prefer latching the fault condition then inhibit the controller, with
crowbar or not, which is what you recommend below.

> The other thing I've seen is a crowbar for fast response, and a
> latching shutdown fed back to the supply that holds it off until
> something is reset.
>

--
Thanks,
Fred.

From -2230946968656332685
X-Google-Thread: fc2a5,d713c96b5c43a7a7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-mail
From: "mjsystems" <madgadget05@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: EXTRA
Date: 12 Oct 2006 10:03:48 -0700
Organization: http://groups.google.com
Lines: 9
Message-ID: <1160672628.842972.192210@k70g2000cwa.googlegroups.com>
References: <1160298174.371241.180050@m73g2000cwd.googlegroups.com>
   <1160298604.444021.263820@k70g2000cwa.googlegroups.com>
NNTP-Posting-Host: 84.9.202.127
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160672639 28162 127.0.0.1 (12 Oct 2006 17:03:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 12 Oct 2006 17:03:59 +0000 (UTC)
In-Reply-To: <1160298604.444021.263820@k70g2000cwa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 2.0.50215; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=84.9.202.127;
   posting-account=0gjX0w0AAADorEf0CUQbT6ONWgwNMT4k
Xref: g2news2.google.com rec.radio.amateur.homebrew:7407

I have also found that upon making this the swr can start off high.

What i did was get a small piece of pipe(non cond) and wrap the braded wire around this about 4-6 times. this stebled thing's out and brought the swr down to 1.4. using slight ajustments to the lenth and coil gap of the braded wire and keeping the coax from touching the floor you can get the swr down to 1.2. so got a load of spare coax and a swr meter then why not have a go and see if you can improve it again

---

```
From 7191512968444490124
X-Google-Thread: fc2a5,1919f1255fa8b80f,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!postnews.google.com!
m73g2000cwd.googlegroups.com!not-for-mail
From: loc.mai@drdc-rddc.gc.ca
Newsgroups: rec.radio.amateur.homebrew
Subject: looking for  455Khz IF can variable coil
Date: 12 Oct 2006 13:51:19 -0700
Organization: http://groups.google.com
Lines: 4
Message-ID: <1160686279.602493.5420@m73g2000cwd.googlegroups.com>
NNTP-Posting-Host: 131.136.242.1
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160686285 25069 127.0.0.1 (12 Oct 2006 20:51:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 12 Oct 2006 20:51:25 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=131.136.242.1;
   posting-account=yV6TOA0AAAD9u4u5gpAUJxvZe4N9b8V4
Xref: g2news2.google.com rec.radio.amateur.homebrew:7408
```

I am looking for 455Khz IF can variable coils,. If you know part# and where I can buy them, please let me know. Your help will be appreciated.

```
From 5583924235250603504
X-Google-Thread: fc2a5,1919f1255fa8b80f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.kjsl.com!ncf.ca!
FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: looking for  455Khz IF can variable coil
Date: 12 Oct 2006 21:43:49 GMT
Organization: The National Capital FreeNet
```

```
Lines: 16
Message-ID: <egmcul$mrd$1@theodyn.ncf.ca>
References: <1160686279.602493.5420@m73g2000cwd.googlegroups.com>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1160689429 23405 134.117.136.48 (12 Oct 2006 21:43:49 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 12 Oct 2006 21:43:49 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7409

 (loc.mai@drdc-rddc.gc.ca) writes:
> I am looking for 455Khz IF can variable coils,. If you know part# and
> where I can buy them, please let me know.  Your help will be
> appreciated.
>
If this is just a basic IF transformer, you could just buy a radio
and extract the transformer.  The radios will be available locally,
unlike just the IF transformer (unless you are lucky enough to be in a
city that still has a store that would carry them).

Buy a radio at a garage sale or a place like the Salvation Army,
and it won't even cost much.

  Michael  VE2BVW




From 4495430026133809559
X-Google-Thread: fc2a5,e66678472e6cb7c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 12 Oct 2006 18:23:15 -0500
Date: Thu, 12 Oct 2006 16:23:21 -0700
From: "Dana H. Myers" <dana.myers@gmail.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: effect of cascading LNAs
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
<15aXg.18227$wE5.8051@trnddc02>
<1160591883.323566.104340@m7g2000cwm.googlegroups.com>
<m7fqi2d746s2ucmlhbkfsnqdfrdbaajhnj@4ax.com>
<1160593999.986847.117750@i3g2000cwc.googlegroups.com>
<nAbXg.1018203$084.7002@attbi_s22>
<1160595992.913074.73420@m7g2000cwm.googlegroups.com>
<XfcXg.1018236$084.652609@attbi_s22>
<1160598806.809126.280010@m7g2000cwm.googlegroups.com>
<1160599267.891583.12910@m7g2000cwm.googlegroups.com>
<egjoo4$c70$1@puck.litech.org>
```

<1160604604.488296.164700@m73g2000cwd.googlegroups.com>
In-Reply-To: <1160604604.488296.164700@m73g2000cwd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-ID: <pPadnTP697_-U7PYnZ2dnUVZ_sydnZ2d@comcast.com>
Lines: 8
NNTP-Posting-Host: 67.180.22.170
X-Trace: sv3-1GhXisgw1A3/Zzrms8P/ntf/
BLMN4qwyEooWMZ7fX9HRNtzmrAi+6f03YsFUGyMU7z1dyGQuBdV45+t!/
gn4zNYLOe4bGwINbxfStIqmyp8tLtDVEWrC7emCkh996BMk5wK2nITPzFXWB+OAWxl7IOYKOSuc!
3G5TDtl4
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7410

Lathi.Tan@gmail.com wrote:

> Well, I may have to go back to the old question, because it's not
> exactly a DSSS depending on cross correlation. What are the possible
> bad effects when I keep connecting amplifiers? Shorter bandwidth?
> Smaller IP3? There should be something I don't know.

Dynamic Range.

From 7393296087530731422
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
From: Slow Code <my.mail@no.spam>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 59

```
Message-ID: <kXAXg.10765$o71.3942@newsread3.news.pas.earthlink.net>
Date: Fri, 13 Oct 2006 00:18:24 GMT
NNTP-Posting-Host: 4.254.227.201
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1160698704 4.254.227.201 (Thu, 12 Oct
2006 17:18:24 PDT)
NNTP-Posting-Date: Thu, 12 Oct 2006 17:18:24 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5980
rec.radio.amateur.homebrew:7411 rec.radio.amateur.policy:49779 rec.radio.swap:8535

Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
news:MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net:

> Slow Code wrote:
>
>>>> Big Ten-Four on that Good Buddy.
>>> It sounds like you run a lot of 11m, not surprising considering how
>>> much you whine, and it's not alternator whine.
>>
>>
>> I only typed like because I knew you would understand that style of
>> communicating.  So, after your license came in the mail what I
>> appliance did you decide to buy?  MFJ? Alinco? Cobra?
>
>
> While you are being all holier than thou, what did you design and build
> for your main rig?  I'm hoping to be impressed, but expecting to be
> disappointed.
>
> Did the code help you with the design?
>
> I took my Advanced class test down at 1919 M street 36 years ago.  I had
> to sit at the desk and copy one solid minute out of five error free at
> 13WPM. I passed it on the first try.  I almost failed the sending test,
> as I had never spent much time doing that.  I had never made a code
> contact before my test, and I have only made a couple since.
>
> The thing about code contacts is they never seem to want to say anything
> beyond:
>
> WA3XXX DE W6XX RST 5NN WX FB 73 W6XX SK
>
> How does that help the cause of amateur radio?
>
> I have designed and built numerous rf receivers and transmitters, many
> are employed by the US Army for various uses.  I have fixed many
> different radios from tube stuff through DSP driven affairs.
>
> How exactly did the code help me to do this?
>
> For me code was a means to an end.  I wanted my license, so I learned
> the code.
>
```

> There were plenty of rude, profane, and generally unpleasant hams on the
> air back when all had to pass the test in the offices of the FCC. I
> haven't noticed that things are any worse now. About the only real
> difference is in the quality of the gear folks are running. It is much
> better than the crappy stuff that was on the air back in the early 70's.
>
> -Chuck

Are conversations on repeaters as technical as they were twenty-five years ago?

Me? I hear no-codes and nickle extras arguing how long a half wave dipole should be.

SC

From -2777976511546193360
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: clean up ham radio SC start by truning in your license
Date: Thu, 12 Oct 2006 20:54:51 -0400
Message-ID: <cuoti2dqf32di7rnkn3ur228pc15069ct3@4ax.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<kXAXg.10765$o71.3942@newsread3.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 64
NNTP-Posting-Date: 12 Oct 2006 23:59:27 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5983
rec.radio.amateur.homebrew:7412 rec.radio.amateur.policy:49790 rec.radio.swap:8541

On Fri, 13 Oct 2006 00:18:24 GMT, Slow Code <my.mail@no.spam> wrote:

>Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
>news:MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net:
>
>> Slow Code wrote:
>>
>>>>> Big Ten-Four on that Good Buddy.
>>>> It sounds like you run a lot of 11m, not surprising considering how
>>>> much you whine, and it's not alternator whine.
>>>
>>>
>>> I only typed like because I knew you would understand that style of
>>> communicating. So, after your license came in the mail what I
>>> appliance did you decide to buy? MFJ? Alinco? Cobra?
>>
>>
>> While you are being all holier than thou, what did you design and build
>> for your main rig? I'm hoping to be impressed, but expecting to be
>> disappointed.
>>
>> Did the code help you with the design?
>>
>> I took my Advanced class test down at 1919 M street 36 years ago. I had
>> to sit at the desk and copy one solid minute out of five error free at
>> 13WPM. I passed it on the first try. I almost failed the sending test,
>> as I had never spent much time doing that. I had never made a code
>> contact before my test, and I have only made a couple since.
>>
>> The thing about code contacts is they never seem to want to say anything
>> beyond:
>>
>> WA3XXX DE W6XX RST 5NN WX FB 73 W6XX SK
>>
>> How does that help the cause of amateur radio?
>>
>> I have designed and built numerous rf receivers and transmitters, many
>> are employed by the US Army for various uses. I have fixed many
>> different radios from tube stuff through DSP driven affairs.
>>
>> How exactly did the code help me to do this?
>>
>> For me code was a means to an end. I wanted my license, so I learned
>> the code.
>>
>> There were plenty of rude, profane, and generally unpleasant hams on the
>> air back when all had to pass the test in the offices of the FCC. I
>> haven't noticed that things are any worse now. About the only real
>> difference is in the quality of the gear folks are running. It is much
>> better than the crappy stuff that was on the air back in the early 70's.
>>
>> -Chuck
>
>
>Are conversations on repeaters as technical as they were twenty-five years

>ago?
>
>Me? I hear no-codes and nickle extras arguing how long a half wave dipole
>should be.

clean up ham radio SC start by truning in your license
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

```
From 1931725558890264OO
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.rcn.net!news.rcn.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 12 Oct 2006 20:00:07 -0500
Date: Thu, 12 Oct 2006 20:59:52 -0400
From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.0.6) Gecko/20060730
SeaMonkey/1.0.4
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<kXAXg.10765$o71.3942@newsread3.news.pas.earthlink.net>
In-Reply-To: <kXAXg.10765$o71.3942@newsread3.news.pas.earthlink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <NN-dnexaGIaKeLPYnZ2dnUVZ_rydnZ2d@rcn.net>
Lines: 66
NNTP-Posting-Host: 72.83.120.187
X-Trace: sv3-0YxnKS4XwYJwJEcMM5yRUlqGnV9woQXuzLWqHeSxOMZExtJtwjhwYJ1+
+n3xGc+GnvZwZGEIBaOKDDa!
Omces7GVeMf8dFp7PbglBFlsVI4xXc+006W6yUFfrR72h0LC5JqUkDAtnqDz7Z7rT73wPuwAHGFy!
MrluSYKIhP43
X-Complaints-To: abuse@rcn.net
```

X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5984 rec.radio.amateur.homebrew:7413 rec.radio.amateur.policy:49796 rec.radio.swap:8542

Slow Code wrote:
> Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
>
>> While you are being all holier than thou, what did you design and build
>> for your main rig? I'm hoping to be impressed, but expecting to be
>> disappointed.
>>
>> Did the code help you with the design?
>>
>> I took my Advanced class test down at 1919 M street 36 years ago. I had
>> to sit at the desk and copy one solid minute out of five error free at
>> 13WPM. I passed it on the first try. I almost failed the sending test,
>> as I had never spent much time doing that. I had never made a code
>> contact before my test, and I have only made a couple since.
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>> beyond:
>>
>> WA3XXX DE W6XX RST 5NN WX FB 73 W6XX SK
>>
>> How does that help the cause of amateur radio?
>>
>> I have designed and built numerous rf receivers and transmitters, many
>> are employed by the US Army for various uses. I have fixed many
>> different radios from tube stuff through DSP driven affairs.
>>
>> How exactly did the code help me to do this?
>>
>> For me code was a means to an end. I wanted my license, so I learned
>> the code.
>>
>> There were plenty of rude, profane, and generally unpleasant hams on the
>> air back when all had to pass the test in the offices of the FCC. I
>> haven't noticed that things are any worse now. About the only real
>> difference is in the quality of the gear folks are running. It is much
>> better than the crappy stuff that was on the air back in the early 70's.
>>
>> -Chuck
>
>
> Are conversations on repeaters as technical as they were twenty-five years
> ago?

Oh, easily. 25 years ago, technical conversations were dominated by such earth
shatteringly important stuff as having a ham down at the repeater site helping

other hams tune their transmitters to be on frequency. Other wonderkind were hitting the repeater with a full quieting signal, and turning their power up to try and get a better signal to that DX mobile that breaking up.

If it wasn't that, it was an endless sea of autopatches calling the xyl to tell her that traffic was bad, could she start dinner... or ordering pizza.

>
> Me? I hear no-codes and nickle extras arguing how long a half wave dipole
> should be.

I heard the same things 25 years ago from Generals that got their licenses at the offices of the FCC.

Even 34 years ago, there were study guides that had questions from the pool used by the FCC. If you could memorize the answers to those questions, you were virtually assured of passing. I used the ARRL handbook as my guide.

You didn't answer my questions about the home brew rig you are using.

-Chuck

```
From 8466349238685523914
X-Google-Thread: fc2a5,1919f1255fa8b80f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 12 Oct 2006 20:32:33 -0500
From: "w9gb" <spam_protect@arrl.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1160686279.602493.5420@m73g2000cwd.googlegroups.com>
Subject: Re: looking for  455Khz IF can variable coil
Date: Thu, 12 Oct 2006 20:32:32 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <l_2dnRo1T_IscbPYnZ2dnUVZ_umdnZ2d@comcast.com>
Lines: 19
NNTP-Posting-Host: 67.176.141.93
X-Trace: sv3-
dvZW71jMiHpCFMvTOfaKjFyPQPj7frlq35ul9k+vw3g7uGdAu5sZ0p7WDMkJMZZiBFkonx6UghT6ajv!
VIEsi9XH6iAuGe02G19jn0ZJLhyhw762gF5DFTlmgxhenQK0ULxE3tN8VR6bDGz8XcOWP93hvBXn!
OYgOJcSykIIi3dqDV8k=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
```

```
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7414
```

<loc.mai@drdc-rddc.gc.ca> wrote in message
news:1160686279.602493.5420@m73g2000cwd.googlegroups.com...
>I am looking for 455Khz IF can variable coils,. If you know part# and
>where I can buy them, please let me know. Your help will be appreciated.
>

Hundreds of sources. You looking for traditional cans used in tubes
equipment or PC board mount (transistors radios)

Gold Mine sell 20 can for $ 2.50 (PC mount versions)

Local hamfests here I see NOS 455 kHZ and 10.7 MHz IF cans (case of them) --
in chassis mount style (tube radios).

A Google search should help.

gb

```
From -1810185228612773094
X-Google-Thread: f7653,5d3380f44b527416
X-Google-Thread: 11480d,5d3380f44b527416
X-Google-Thread: 108122,5d3380f44b527416
X-Google-Thread: fc2a5,5d3380f44b527416
X-Google-Thread: 107ada,5d3380f44b527416
X-Google-Attributes: gidf7653,gid11480d,gid108122,gidfc2a5,gid107ada,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!ecngs!feeder.ecngs.de!
216.196.110.149.MISMATCH!border2.nntp.ams.giganews.com!nntp.giganews.com!
pe2.news.blueyonder.co.uk!blueyonder!pe1.news.blueyonder.co.uk!blueyonder!
fe2.news.blueyonder.co.uk.POSTED!53ab2750!not-for-mail
Message-ID: <452F6A2D.6080003@yahoo.co.uk>
From: Wolfgang Fartbubble <swift240@yahoo.co.uk>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.digital.misc,rec.radio.amateur.dx,rec.radio.amateur.equipment,re
c.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: IM ASKING FOR DONATIONS FOR HEART SURGERY
References: <452ba865$0$4677$ec3e2dad@news.usenetmonster.com>
In-Reply-To: <452ba865$0$4677$ec3e2dad@news.usenetmonster.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 0641-4, 13/10/2006), Outbound message
X-Antivirus-Status: Clean
Lines: 32
Date: Fri, 13 Oct 2006 10:27:59 GMT
NNTP-Posting-Host: 82.37.192.24
```

```
X-Complaints-To: abuse@blueyonder.co.uk
X-Trace: fe2.news.blueyonder.co.uk 1160735279 82.37.192.24 (Fri, 13 Oct 2006
11:27:59 BST)
NNTP-Posting-Date: Fri, 13 Oct 2006 11:27:59 BST
Xref: g2news2.google.com rec.radio.amateur.digital.misc:417
rec.radio.amateur.dx:2574 rec.radio.amateur.equipment:6654
rec.radio.amateur.homebrew:7415 rec.radio.amateur.misc:24016

mike wrote:
>               hello i always figured this would never happen to me but my heart
is having serious issuses do to a birth defect (i was born with a hole in my
heart)and need money to have the surgery to get the hole fix so i am asking for
donations to help with the cost since i dont have insurance so if you have a
paypal account please look into your heart and donate a dollar or two my paypal
emial is mcollins7373@msn.com i need around 20,000 dollars usd to have the surgery
done. This is my last resort for money i have tried goverment agencies family and
friends and to my dissapointment nothing happened SO PLEASE I NEED HELP thank you
so much mike collins
>
>
>
>
> uW18P>^&K2[o%09E*`x[9K%bwh'bt/QIr8!Vk MwoA)75ElpSj?
Z[U`)tK`%OLP#m2qLF<MuIR5q.lYC;M:1Lc>: aQcG]SjrTf$
>
>
> ---
> avast! Antivirus: Inbound message clean.
> Virus Database (VPS): 0641-4, 13/10/2006
> Tested on: 13/10/2006 11:27:34
> avast! - copyright (c) 1988-2006 ALWIL Software.
> http://www.avast.com
>
>
>
Put the arse hole on the KILL list.

I have.......



---
avast! Antivirus: Outbound message clean.
Virus Database (VPS): 0641-4, 13/10/2006
Tested on: 13/10/2006 11:27:57
avast! - copyright (c) 1988-2006 ALWIL Software.
http://www.avast.com





From -7307674196959984533
X-Google-Thread: fc2a5,e60c380a9e6bf21f,start
```

```
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!wn14feed!
worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: EF JOHNSON PARTS & BIRD PLUGS
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <mJMXg.60158$QZ1.3673@bgtnsc04-news.ops.worldnet.att.net>
NNTP-Posting-Host: ab7a471ffaab01da3e42acd0c6ba0d91
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1160746962
ab7a471ffaab01da3e42acd0c6ba0d91 (Fri, 13 Oct 2006 13:42:42 GMT)
NNTP-Posting-Date: Fri, 13 Oct 2006 13:42:42 GMT
Organization: AT&T Worldnet
Date: Fri, 13 Oct 2006 13:42:42 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7416

Will be listing a few Johnson items each day-check often- + take a look
at the NOS Bird '43' plugs too:
Tnx for looking:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

heytubeguy




From -277571204375419344
X-Google-Thread: fc2a5,633a6fce694d0708
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!peer01.cox.net!cox.net!p01!
fed1read04.POSTED!53ab2750!not-for-mail
From: "Caveat Lector" <CL@nowhere.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1160098752.441683.304190@c28g2000cwb.googlegroups.com>
Subject: Re: New to Ham (FT-857 reviews)
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <GfNXg.40010$nm1.4407@fed1read04>
Date: Fri, 13 Oct 2006 07:19:17 -0700
```

```
NNTP-Posting-Host: 72.197.12.245
X-Complaints-To: abuse@cox.net
X-Trace: fed1read04 1160749158 72.197.12.245 (Fri, 13 Oct 2006 10:19:18 EDT)
NNTP-Posting-Date: Fri, 13 Oct 2006 10:19:18 EDT
Organization: Cox Communications
Xref: g2news2.google.com rec.radio.amateur.homebrew:7417

See e-ham reviews:
http://www.eham.net/reviews/detail/3046

Has 187 reviews on the FT-857 series

CL


"Ed Byars" <byars_e@bellsouth.net> wrote in message
news:1160098752.441683.304190@c28g2000cwb.googlegroups.com...
>I am going to buy a radio that I hope will last me many years. I want
> to start with a mobile that will also serve as a base station.I am
> looking at a YAESU FT-857D.
>
> Any comments on the pros or cons of this as a beginner radio that can
> stay with me as I develop my skills?
>




From -1390839708296058343
X-Google-Thread: fc2a5,5f27ac05e40fa117,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!feed.cgocable.net!
news2.epix.net!news1.epix.net!not-for-mail
From: "dave" <foda01@epix.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: testing ferrite or iron powder toroids as to mix
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Message-ID: <_zQXg.1894$Db4.268540@news1.epix.net>
Date: Fri, 13 Oct 2006 18:05:46 GMT
NNTP-Posting-Host: 216.37.220.69
X-Complaints-To: abuse@epix.net
X-Trace: news1.epix.net 1160762746 216.37.220.69 (Fri, 13 Oct 2006 14:05:46 EDT)
NNTP-Posting-Date: Fri, 13 Oct 2006 14:05:46 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7418

Hi all,

Is there an easy way to test surplus toroids as to what mix they might be?
```

I have some here with no markings (plain black powder) and I would like to
see what frequency ranges they would be useful at. I guess I would have to
wind up a transformer and plot the frequency response?

Dave

From 1417809848139449583
X-Google-Thread: fc2a5,5f27ac05e40fa117
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc04.POSTED!d89a2db8!
not-for-mail
From: "Dale Parfitt" <par@parelectronics.com>
Newsgroups: rec.radio.amateur.homebrew
References: <_zQXg.1894$Db4.268540@news1.epix.net>
Subject: Re: testing ferrite or iron powder toroids as to mix
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <KeSXg.44$3C6.18@trnddc04>
Date: Fri, 13 Oct 2006 19:59:38 GMT
NNTP-Posting-Host: 63.19.166.134
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc04 1160769578 63.19.166.134 (Fri, 13 Oct 2006 15:59:38 EDT)
NNTP-Posting-Date: Fri, 13 Oct 2006 15:59:38 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7419

"dave" <foda01@epix.net> wrote in message
news:_zQXg.1894$Db4.268540@news1.epix.net...
> Hi all,
>
> Is there an easy way to test surplus toroids as to what mix they might be?
> I have some here with no markings (plain black powder) and I would like to
> see what frequency ranges they would be useful at. I guess I would have
> to
> wind up a transformer and plot the frequency response?
>
> Dave
>
>Plain black is likely ferrite. Wind some turns and measure the inductance.
>Then resolve the turns/inductance formula for the permeability.

An Amidon or Ferrite catalog will then give you any other charactersitics
you require.
Dale W4OP

From -4468038973874233139
X-Google-Thread: fc2a5,5f27ac05e40fa117
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-mail
From: "ve3ab" <ve3ab@personainternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: testing ferrite or iron powder toroids as to mix
Date: 13 Oct 2006 14:20:20 -0700
Organization: http://groups.google.com
Lines: 24
Message-ID: <1160774420.443542.52640@k70g2000cwa.googlegroups.com>
References: <_zQXg.1894$Db4.268540@news1.epix.net><KeSXg.44$3C6.18@trnddc04>
NNTP-Posting-Host: 208.96.81.28
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160774424 23137 127.0.0.1 (13 Oct 2006 21:20:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 13 Oct 2006 21:20:24 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=208.96.81.28;
   posting-account=656IUw0AAAApkRoF_EErV6yRI59jt7FN
Xref: g2news2.google.com rec.radio.amateur.homebrew:7420

I had some of my ferrite cores mixed up in my junkbox. What I did is thread them on to a
wire and mark them..so they wouldnt get mixed up again. I took some known torroids and
did some inductance tests at various frequencies ..with 3 or 4 turns of a 7 inch wire. I then
matched up the types that got mixed up. They were all ft37-43 and similar sized other ones of different permeability.
Now with types that are surplus from unknown origin..you may be able to match up inductance vs frequency graphs and match them up to known types of similar/same size.
Ferrites are often used in broadband applications..ie 1.8 to 30 mhz..therefore you have to
select a number of frequencies for test measurements. I use the a frequency in each amateur band.
See my web site:http://www.earlandrews.com for some more details. I use an autek rf analyser for my inductance measurements. I may get around to publishing more on this topic on my web pages this winter..stay tuned. Also..another method is to measure the actual resistance of the core with an ohmeter. I found this to be a very hit and miss and

rather difficult method. The inductance vs. Frequency method is
easier..but you need a test instrument ..and TIME!! 73 Earl VE3AB

```
From -2133662976971374877
X-Google-Thread: fc2a5,5f27ac05e40fa117
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!multikabel.net!
feed20.multikabel.net!border1.nntp.ams.giganews.com!nntp.giganews.com!
newsfeed101.telia.com!nf02.dk.telia.net!newsfeed.bahnhof.se!
195.197.54.117.MISMATCH!feeder1.news.jippii.net!reader1.news.jippii.net!53ab2750!
not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: testing ferrite or iron powder toroids as to mix
Message-ID: <kra0j259gfapdk5pkhhqjaroe3dhfr7rad@4ax.com>
References: <_zQXg.1894$Db4.268540@news1.epix.net> <KeSXg.44$3C6.18@trnddc04>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 31
Date: Sat, 14 Oct 2006 03:29:26 +0300
NNTP-Posting-Host: 195.197.6.105
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.jippii.net 1160785545 195.197.6.105 (Sat, 14 Oct 2006
03:25:45 EEST)
NNTP-Posting-Date: Sat, 14 Oct 2006 03:25:45 EEST
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:7421
```

On Fri, 13 Oct 2006 19:59:38 GMT, "Dale Parfitt"
<par@parelectronics.com> wrote:

```
>
>"dave" <foda01@epix.net> wrote in message
>news:_zQXg.1894$Db4.268540@news1.epix.net...
>> Hi all,
>>
>> Is there an easy way to test surplus toroids as to what mix they might be?
>> I have some here with no markings (plain black powder) and I would like to
>> see what frequency ranges they would be useful at.  I guess I would have
>> to
>> wind up a transformer and plot the frequency response?
>>
>> Dave
>>
>>Plain black is likely ferrite. Wind some turns and measure the inductance.
>>Then resolve the turns/inductance formula for the permeability.
>An Amidon or Ferrite catalog will then give you any other charactersitics
>you require.
```

>Dale W4OP

There seems to be a misconception that all iron dust cores are made by
Micrometals and often marketed under the Amidon brand name and that
all ferrite cores are made by Fair-Rite :-).

You can not assume that any colour coding system used by some
manufacturer would apply universally.

Paul OH3LWR

From 1939506925243459062
X-Google-Thread: fc2a5,c795c2ce13673c93
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newsfeed.news2me.com!sn-xt-sjc-05!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@Yahoo.Com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Trouble matching SA605 input at 434 MHz
Date: Sat, 14 Oct 2006 15:19:55 +1300
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12j0ia8ntvevm61@corp.supernews.com>
References: <1Z2Ug.39931$rP1.16940@news-server.bigpond.net.au>
<UOOdnSMe1uexobzYnZ2dnUVZ_sGdnZ2d@web-ster.com> <g3fUg.861$If3.394@trnddc07>
<60hUg.40305$rP1.26302@news-server.bigpond.net.au>
<RRoUg.69$Ys1.793708@news.sisna.com> <tbrUg.40616$rP1.33786@news-server.bigpond.net.au> <1evUg.76$5k1.753766@news.sisna.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7422

"RST Engineering" <jim@rstengineering.com> wrote in message
news:1evUg.76$5k1.753766@news.sisna.com...
 > Several reasons come to mind. The aforementioned numb unused input.
They
> found some interesting motorboating (low frequency) proclivities and
> started throwing capacitors at it until they found the right value. The
> applications engineer was two weeks out of school on his first real RF
> circuit.

Something I've found myself -- and several considerably experienced RF
designers have verified -- is that RF coupling and bypass capacitors are
often nowhere near as critical as you might think they are. On a real
circuit board, by the time you start getting close to the SRF of even a

100nF capacitor, there's usually enough parasitic coupling that what the capacitor is doing just doesn't matter that much. I've used 100nF coupling caps in paths all the way up to 3GHz, and while you *can* see a difference in S21 compared to using, e.g., 10pF, it's really, really small... like, under 1/4dB, and thus the overall response is usually swamped by active devices, loads, etc.

Thus I'm not at all surprised the OP saw absolutely no different when he reduced the 10nF caps to 200pF.

That being said, I wouldn't throw a larger-than-necessary cap into an RF path without good reason. My main point is that the problem of providing wideband coupling is often nowhere near as difficult as it first appears. On the other hand, this implies the well-known corollary that isolation is often a lot *harder* to achieve than we'd like.

---Joel

```
From 6992490192769863944
X-Google-Thread: fc2a5,e66678472e6cb7c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!newsfeed.stueberl.de!newsgate.cistron.nl!xs4all!news2.euro.net!
138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-08!sn-ams!sn-feed-ams-03!sn-post-
ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@Yahoo.Com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: effect of cascading LNAs
Date: Sat, 14 Oct 2006 15:25:33 +1300
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12j0ikqqni2v4f3@corp.supernews.com>
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
<15aXg.18227$wE5.8051@trnddc02>
<1160591883.323566.104340@m7g2000cwm.googlegroups.com>
<m7fqi2d746s2ucmlhbkfsnqdfrdbaajhnj@4ax.com>
<1160593999.986847.117750@i3g2000cwc.googlegroups.com>
<nAbXg.1018203$084.7002@attbi_s22>
<1160595992.913074.73420@m7g2000cwm.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 15
Xref: g2news2.google.com rec.radio.amateur.homebrew:7423
```

<Lathi.Tan@gmail.com> wrote in message

news:1160595992.913074.73420@m7g2000cwm.googlegroups.com...

> I am asking because it seems difficult, and maybe impossible. I've
> never heard of this high gain before, but I dont' know why I cann't
> stack amplifiers and I am looking for somebody who can tell me what
> exactly the problem is: you see the NF is nice, and I can get the SNR
> if the band is narrow enough.

The problem is that, if you have 140dB gain at one frequency, you need *over 140dB isolation* from your final output back to the original input to prevent oscillations from occurring.

140dB isolation is very difficult for reasonable amounts of money!

```
From 1337094901542581270
X-Google-Thread: 108122,bf432f932027c641
X-Google-Thread: fc2a5,bf432f932027c641
X-Google-Thread: 107ada,bf432f932027c641
X-Google-Thread: 10bf43,bf432f932027c641
X-Google-Attributes: gid108122,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border1.nntp.ams.giganews.com!feed.xsnews.nl!feeder.xsnews.nl!feeder1.cambrium.nl!
feeder3.cambrium.nl!feed.tweaknews.nl!195.14.215.231.MISMATCH!news.netcologne.de!
newsfeed-fusi2.netcologne.de!newsfeed01.chello.at!newscore.univie.ac.at!
217.188.199.134.MISMATCH!keepthis.news.telefonica.de!telefonica.de!npeer.de.kpn-
eurorings.net!border2.nntp.ams.giganews.com!nntp.giganews.com!
newsfeed101.telia.com!nf02.dk.telia.net!out02b.usenetserver.com!
news.usenetserver.com!in02.usenetserver.com!news.usenetserver.com!
in03.usenetserver.com!news.usenetserver.com!news-out.readnews.com!
postnews3.readnews.com!posts.news.usenetmonster.com!
nnrp0.asbnva.usenetmonster.com!not-for-mail
From: "mike" <bphtzywr@bngrxwuq.com>
Subject: (THIS IS SO REAL PEOPLE) IM ASKING FOR DONATIONS FOR HEART SURGERY
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
radio.amateur.policy
Sender: mike <bphtzywr@bngrxwuq.com>
Reply-To: mcollins7373@msn.com
Organization: home gamer
Date: Tue, 10 Oct 2006 08:20:51 -0600
X-Priority: 3
X-Library: Indy 9.00.10
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 5.50.4133.2400
Lines: 9
Message-ID: <452bc60e$0$2995$ec3e2dad@news.usenetmonster.com>
NNTP-Posting-Host: fc00b7c8.news.usenetmonster.com
X-Trace:
DXC=Xb1:icg^8gR:7=dmoOoTDRfmBVYh0PF`V7:fG3B6S`dSSWLSHoCCk@]NEO9kD9OLWYh[aF7?
```

nhS9Z^YQ7HIL=>D_iC^1S7PiTdSAe6HhY<\nj_a<<dT1DET7[
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news2.google.com rec.radio.amateur.equipment:6659
rec.radio.amateur.homebrew:7424 rec.radio.amateur.misc:24046
rec.radio.amateur.policy:49871

hello i always figured this would never happen to me but my heart is having serious issuses do to a birth defect (i was born with a hole in my heart)and need money to have the surgery to get the hole fix so i am asking for donations to help with the cost since i dont have insurance so if you have a paypal account please look into your heart and donate a dollar or two my paypal emial is mcollins7373@msn.com i need around 20,000 dollars usd to have the surgery done. This is my last resort for money i have
tried goverment agencies family and friends and to my dissapointment nothing happened SO PLEASE I NEED HELP thank you so much mike collins

P.S. THANKS FOR ALL THE HATE MAIL WHERE WOULD THE WORLD BE WITHOUT HATERS

E#YtndPa8PFHBK(w+.g35'e1#d_2@(T@aB]X GILd&dpLWXChv1DGnt@IqJwOwVRUUuiJ^I2FiNR?!
PJ"dbNVCsTn0"j2MVALZEl

From -3453849217550354055
X-Google-Thread: fc2a5,5f27ac05e40fa117
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 14 Oct 2006 03:24:37 -0500
Message-ID: <XM4GLjJ21JMFFANJ@ifwtech.co.uk>
Date: Sat, 14 Oct 2006 09:19:02 +0100
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: testing ferrite or iron powder toroids as to mix
References: <_zQXg.1894$Db4.268540@news1.epix.net> <KeSXg.44$3C6.18@trnddc04>
<kra0j259gfapdk5pkhhqjaroe3dhfr7rad@4ax.com>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<5mwkzTBRO5sETFKkGhyHHc+YXH>)
Lines: 46
NNTP-Posting-Host: 82.153.193.158
X-Trace: sv3-
idliaTLrOWO5c4E864j7fQDRgIi7ldqhcUe9BrzwkBy7beaMCPEayRNLHs0c3XaruBfcx/LAB6lNsrg!
o4bIUTq3Nlj9P+EID2UxDL2fDp4+MZtBMI/WXBMJXn0Z6ba8rmgVB0aVETX9xq3SWH7/efGhcrI=
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk

X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7425

Paul Keinanen wrote:
>>An Amidon or Ferrite catalog will then give you any other charactersitics
>>you require.
>>Dale W4OP
>
>There seems to be a misconception that all iron dust cores are made by
>Micrometals and often marketed under the Amidon brand name and that all
>ferrite cores are made by Fair-Rite :-).
>
>You can not assume that any colour coding system used by some
>manufacturer would apply universally.
>

Magnetic materials do not have a universal colour code like resistors. Their properties are much more complex, including shape and size, and the magnetic properties also depend very much on the ingredients and the processing. Rather like bread, no two products are exactly the same, and it's hard work for manufacturers to maintain consistent quality even in the same material.

If someone has good reason to believe that the cores were made in the USA, then they may well be identifiable from the Micrometals, Amidon or Fair-Rite catalogs. Unless it's a custom shape, the exact dimensions are often the best clue about which company's catalogue to look in. Then a few electrical tests should help to identify one of that company's standard mixes.

On the other hand, cores from other manufacturers and other parts of the world could be almost anything! The only thing you know for sure is that they are NOT made from any "US standard" mix, so they're going to need a separate drawer or bag of their own.

Living in Europe, I have given up buying surplus cores "just in case" they might be useful, because they have almost all been a waste of money and storage space. After wasting time trying to measure and classify them, they have always turned out to be the wrong material or the wrong size for what I needed. As a result of that experience, I now keep almost no stocks of magnetic cores of any kind.

Instead, I keep the money in my pocket, and then buy exactly the right ones for each project, as and when they are needed.

--
73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From -5573662556803842592
X-Google-Thread: fc2a5,5f27ac05e40fa117
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: "William E. Sabin" <w.sabin@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <_zQXg.1894$Db4.268540@news1.epix.net>
Subject: Re: testing ferrite or iron powder toroids as to mix
Lines: 25
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <OR2Yg.1021387$084.658192@attbi_s22>
NNTP-Posting-Host: 12.217.178.216
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1160821230 12.217.178.216 (Sat, 14 Oct 2006 10:20:30 GMT)
NNTP-Posting-Date: Sat, 14 Oct 2006 10:20:30 GMT
Organization: AT&T ASP.att.net
Date: Sat, 14 Oct 2006 10:20:30 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7426

I keep a modest collection of many useful types of cores that I bought from Amidon, from their excellent complete Catalog. The initial expense was a couple of hundred dollars about 15 years ago, but I know exactly what I have, and I save a lot of time and trouble. When I run low on some type I order replacements. I store them in plastic zipper bags with labels. For home experimenting it is a very good way to go. I also have an ancient Boonton Q meter and an ancient surplus HP Vector Impedance Meter.

Bill W0IYH

"dave" <foda01@epix.net> wrote in message
news:_zQXg.1894$Db4.268540@news1.epix.net...
> Hi all,
>
> Is there an easy way to test surplus toroids as to what mix they might be?
> I have some here with no markings (plain black powder) and I would like to
> see what frequency ranges they would be useful at. I guess I would have
> to
> wind up a transformer and plot the frequency response?
>
> Dave
>
>

```
From 2601386336702965068
X-Google-Thread: fc2a5,f6d267c019b4d816,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 14 Oct 2006 10:03:32 -0500
Date: Sat, 14 Oct 2006 08:03:31 -0700
From: Gary <gbelcas@comcast.net>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: ad8307
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <QoGdnWyLXpDZYa3YnZ2dnUVZ_qCdnZ2d@comcast.com>
Lines: 5
NNTP-Posting-Host: 71.227.214.220
X-Trace: sv3-jI2STIeZF9hHpyTZhkQmcDYX9aHxRHmaZgJK+3ozqGax/zsUVbLJUxlx/
ghfyUHa+iBMNzkxtkWErFi!
LnfWbIvWZkCvwnSggj6ZiGu5wtM13fkx4BpieJJ6jpU0HT3PpQB90feoiSJoxneJUMG78PITqxK4!
QZnspEyZ9FOywg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7427
```

anyone here tried a homebrew wattmeter using an AD8307 log amp?? need
to chat w/ you...

gary
ka9rao

```
From 5824483231851737532
X-Google-Thread: fc2a5,f6d267c019b4d816
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-
mail
From: dkelly42@cox.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ad8307
Date: 14 Oct 2006 08:26:11 -0700
Organization: http://groups.google.com
Lines: 18
Message-ID: <1160839571.319414.232240@m73g2000cwd.googlegroups.com>
References: <QoGdnWyLXpDZYa3YnZ2dnUVZ_qCdnZ2d@comcast.com>
```

NNTP-Posting-Host: 70.189.116.66
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160839577 23210 127.0.0.1 (14 Oct 2006 15:26:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 14 Oct 2006 15:26:17 +0000 (UTC)
In-Reply-To: <QoGdnWyLXpDZYa3YnZ2dnUVZ_qCdnZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.0; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=70.189.116.66;
   posting-account=9FuoIQ0AAABvVM7UDN9Dqr_lsHKX7nWT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7428

Yes. My meter is used for low level RF measurement. Primarily I have been using it for LO measurement and crystal filter construction. It waspretty simple to build ugly style. The June 2001 article by Bob Larkin is a good article to read. Calibration will be a concern. I also created a spreadsheet using the slope formulas provided in excel. I guarentee you will fine it useful.

AADE has a kit.

K5UOS

On Oct 14, 8:03 am, Gary <gbel...@comcast.net> wrote:
> anyone here tried a homebrew wattmeter using an AD8307 log amp?? need
> to chat w/ you...
>
> gary
> ka9rao

From 578207277836382104
X-Google-Thread: fc2a5,5f27ac05e40fa117
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!feed.cgocable.net!news2.epix.net!news1.epix.net!not-for-mail
From: "dave" <foda01@epix.net>
Newsgroups: rec.radio.amateur.homebrew
References: <_zQXg.1894$Db4.268540@news1.epix.net>
<OR2Yg.1021387$084.658192@attbi_s22>
Subject: Re: testing ferrite or iron powder toroids as to mix
Lines: 58
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Message-ID: <i29Yg.2016$Db4.272448@news1.epix.net>
Date: Sat, 14 Oct 2006 17:23:26 GMT

NNTP-Posting-Host: 216.37.220.69
X-Complaints-To: abuse@epix.net
X-Trace: news1.epix.net 1160846606 216.37.220.69 (Sat, 14 Oct 2006 13:23:26 EDT)
NNTP-Posting-Date: Sat, 14 Oct 2006 13:23:26 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7429

Well, I wound 6 turns of #26 enamel magnet wire onto on of the surplus toroids. It measures an whopping 714uH on my Almost All Digital Electronics LC meter.

The toroid measures a bit less than 1 inch OD but definitely more than 0.94". I don't have a set of calipers here but it looks to be about 0.97" based on the ruler I have. The ID is about 0.50 inches. The thickness is about 0.34". These dimensions don't seem to be standard. By the way, here is the listing for these toroids:

    http://www.goldmine-elec-products.com/prodinfo.asp?number=G6683

This inductance seems way too high - either I'm getting a false reading or else this not a good material to make RF transformers / inductors with?

I'm mostly working with 2 to 30 Mhz so I am looking for some stuff for that range.

thanks all,

Dave

"William E. Sabin" <w.sabin@mchsi.com> wrote in message
news:OR2Yg.1021387$084.658192@attbi_s22...
> I keep a modest collection of many useful types of cores that I bought
from
> Amidon, from their excellent complete Catalog. The initial expense was a
> couple of hundred dollars about 15 years ago, but I know exactly what I
> have, and I save a lot of time and trouble. When I run low on some type I
> order replacements. I store them in plastic zipper bags with labels. For
> home experimenting it is a very good way to go. I also have an ancient
> Boonton Q meter and an ancient surplus HP Vector Impedance Meter.
>
> Bill W0IYH
>
> "dave" <foda01@epix.net> wrote in message
> news:_zQXg.1894$Db4.268540@news1.epix.net...
> > Hi all,
> >
> > Is there an easy way to test surplus toroids as to what mix they might
be?
> > I have some here with no markings (plain black powder) and I would like
to

```
> > see what frequency ranges they would be useful at.  I guess I would have
> > to
> > wind up a transformer and plot the frequency response?
> >
> > Dave
> >
> >
>
>




From -8411840337931294637
X-Google-Thread: fc2a5,cd8db7a1b0872a9f,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.telenor.com!
news.telenor.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 14 Oct 2006 15:42:21 -0500
From: RuneM <runemadsen@operamail.com>
Subject: Lots of old scanned books
Newsgroups: rec.radio.amateur.homebrew
Reply-To: runemadsen@operamail.com
Date: Sat, 14 Oct 2006 22:42:33 +0200
User-Agent: KNode/0.10.2
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <0-adnVuTWM4w1qzYnZ2dneKdnZydnZ2d@telenor.com>
Lines: 3
NNTP-Posting-Host: 85.165.79.31
X-Trace: sv3-
tHfkImpKWWBNAjkhA0n0ssUf66ojxPxdN5pqYwBC1hJvivWPCz49QxSUWE+TajsI2IWXeOxGw9BvCGO!
i9v+cbmo95WvN3TANoEaItulW5ybre5bPLuXODcKZQ2+KTHwq6o7ERKsVutieI/0quevU1BxTw1p!
BdmftlrWlAU=
X-Complaints-To: news-abuse@telenor.net
X-DMCA-Complaints-To: news-abuse@telenor.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7430

Visit:
http://thepiratebay.org/tor/3538798




From -4150805259423623118
X-Google-Thread: fc2a5,f6d267c019b4d816
X-Google-Attributes: gidfc2a5,public
```

X-Google-Language: ENGLISH,ASCII-7-bit
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NNTP-Posting-Date: Sat, 14 Oct 2006 21:02:28 -0500
Subject: Re: ad8307
Date: Sat, 14 Oct 2006 19:02:27 -0700
From: artie <artie.m@gNOSPAMmail.com>
Newsgroups: rec.radio.amateur.homebrew
Message-ID: <141020061902273822%artie.m@gNOSPAMmail.com>
References: <QoGdnWyLXpDZYa3YnZ2dnUVZ_qCdnZ2d@comcast.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 8bit
Mail-Copies-To: nobody
User-Agent: Thoth/1.7.2 (Carbon/OS X)
Lines: 24
X-Trace: sv3-egls8/e87fD7JtWKbMN602/BTXVGpMlHkW+7O9ep4jnwrqBA4AE3DbpvpM3/yp8waj+5bH0dSL2kf50!bNBwERKqTsywsdUZIdVwgNgjBUTN/mjVykzO5wsTCVAuMpQUEqy0gG/0swtuKMWIyjNp0w==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7431

In article <QoGdnWyLXpDZYa3YnZ2dnUVZ_qCdnZ2d@comcast.com>, Gary <gbelcas@comcast.net> wrote:

> anyone here tried a homebrew wattmeter using an AD8307 log amp?? need
> to chat w/ you...
>
> gary
> ka9rao

Built one using an 8307, A/D, and Stamp II. As the other poster mentioned, depending on what you want to do with it, calibration can be an issue, for both frequency and amplitude. "Dead bug" style construction works well with this part, providing a solid ground plane.

Oh, and look on eBay for HP 436 and 437 wattmeters. That part is cheap. The expensive part is the probe -- 8481, 8482. But even without the probe, the 436 and 437 have reference sources that put out 1mW into 50 ohms at 50 MHz with better than 1% accuracy.

omit the usual to e-mail me.

--
Namaste--

```
From 6747533026948243242
X-Google-Thread: fc2a5,f6d267c019b4d816
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-
mail
From: "KRP" <planningpower@iprimus.com.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ad8307
Date: 15 Oct 2006 01:17:26 -0700
Organization: http://groups.google.com
Lines: 23
Message-ID: <1160900246.797594.276230@h48g2000cwc.googlegroups.com>
References: <QoGdnWyLXpDZYa3YnZ2dnUVZ_qCdnZ2d@comcast.com>
NNTP-Posting-Host: 210.50.98.69
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160900250 15102 127.0.0.1 (15 Oct 2006 08:17:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 15 Oct 2006 08:17:30 +0000 (UTC)
In-Reply-To: <QoGdnWyLXpDZYa3YnZ2dnUVZ_qCdnZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-GB; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h48g2000cwc.googlegroups.com; posting-host=210.50.98.69;
   posting-account=coJqrg0AAADbATPrKuOGtD3XJtyOlIvN
Xref: g2news2.google.com rec.radio.amateur.homebrew:7432
```

Gary wrote:

> anyone here tried a homebrew wattmeter using an AD8307 log amp?? need
> to chat w/ you...
>
> gary
> ka9rao

Hi; my first post so hope it works.

Yes, I built mine largely on the Kopski circuit. Manhattan construction.

I made a separate measuring head in a small diecast box with a cable which plugs-in to the meter unit via a microphone plug/socket.

I also made another head in an identical little box; it contains a return-loss bridge with an AD8307 as the detector. Works fine up to 650 MHz. It allows quick & accurate return-loss measurements; I call it my poor man's scalar network analyser. :)

Kerry VK2TIL.

```
From -6618347417102588874
X-Google-Thread: fc2a5,1e41c909a55fb098,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone.austin.rr.com!news.rr.com!
tornado.texas.rr.com.POSTED!53ab2750!not-for-mail
From: "DJboutit" <Recordking@Hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Radio Pirates Forum
Lines: 4
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <HbvYg.105473$5o5.60198@tornado.texas.rr.com>
Date: Sun, 15 Oct 2006 18:35:19 GMT
NNTP-Posting-Host: 72.181.189.162
X-Complaints-To: abuse@rr.com
X-Trace: tornado.texas.rr.com 1160937319 72.181.189.162 (Sun, 15 Oct 2006 13:35:19
CDT)
NNTP-Posting-Date: Sun, 15 Oct 2006 13:35:19 CDT
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7433

http://www.radiopirates.co.nr/ come chat with with station ops & just
listeners many sections to keep you busy
```

```
From -3936141388185794656
X-Google-Thread: fc2a5,500c4bb31d00422,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr12.news.prodigy.com.POSTED!0e0965b7!not-for-
mail
From: larry d clark <buddycl@nospam_swbell.net>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: step motor info please
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 0641-4, 10/13/2006), Outbound message
X-Antivirus-Status: Not-Tested
Lines: 12
Message-ID: <icyYg.14335$vJ2.13689@newssvr12.news.prodigy.com>
NNTP-Posting-Host: 70.128.218.234
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X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr12.news.prodigy.com 1160949646 ST000 70.128.218.234 (Sun, 15 Oct 2006 18:00:46 EDT)
NNTP-Posting-Date: Sun, 15 Oct 2006 18:00:46 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
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@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Sun, 15 Oct 2006 22:00:46 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7434

i have always wanted to build a step motor driven
balanced tuner. i have acquired an excellent tx air capacitor
and 2 matched 28 uh roller inductors. next step is
to acquire 2 step motors with some kind of positioning
indicator, either optical or a pot.

any have any recommendations for a company site, or for
anyting else related, pulleys, belts, encoders etc

larry
kd5foy

From -6971824437472251450
X-Google-Thread: fc2a5,e66678472e6cb7c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 15 Oct 2006 17:24:14 -0500
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
<15aXg.18227$wE5.8051@trnddc02>
<1160591883.323566.104340@m7g2000cwm.googlegroups.com>
<m7fqi2d746s2ucmlhbkfsnqdfrdbaajhnj@4ax.com>
<1160593999.986847.117750@i3g2000cwc.googlegroups.com>
<e18ri2h52u09pn5cveos1r17i8b0vgaqlq@4ax.com>
<1160671063.115660.87710@m7g2000cwm.googlegroups.com>
Subject: Re: effect of cascading LNAs
Date: Sun, 15 Oct 2006 17:24:16 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <tZ-dnVztiNuTKK_YnZ2dnUVZ_qmdnZ2d@comcast.com>
Lines: 60
NNTP-Posting-Host: 71.228.3.96

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X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7435

I took a receiver design class at Rockwell-Collins when I was working for them. The guidelines given at the class were no more than 70dB gain at any single frequency. Any more than that, an instability can result. One of my instructers in college told me that with the old school of design, allow at least 1/2 inch of length for each 40dB of gain at a single frequency, and even with those parameters, interstage shields would be necessary. One technique that radio manufacturers is "egg crate" construction.............a die-cast chassis with 1/16th inch walls separating each compartment that contains a module is used.

The better RF generators also use this scheme. Examples of a receiver and RF generator are the Racal 6790/GM and the Boonton 103D, respectively.

If you are still curious if your idea will work or not, I suggest that you actually build the cascaded lineup and find out what happens. Sometimes, the best way to learn about these things is to experience them yourself. I remember the first cascaded amplifier lineup I built when I was going to school. When I asked my instructor why the circuit was oscillating, he asked me where the decoupling networks were. I asked him "decoupling what?". Oh, that's what those 100 ohm / .01uF RC networks were that I used to see in series with the collector/drain resistors. I used to jump out those 100 ohm resistors, thinking that the extra collector/drain voltage would somehow give the radio more gain!

It is always good to ask questions on the NG, but the best way to learn is to actually build the circuit yourself. Nothing like the "school of hard knocks".

Pete

<Lathi.Tan@gmail.com> wrote in message
news:1160671063.115660.87710@m7g2000cwm.googlegroups.com...
> When the answer is not clear for our doubts, we argue about it for
> better explanation, until the doubts are solved. I think this is a
> healthy way to get answers.
>
>
>
>
> Wes Stewart wrote:
>> On 11 Oct 2006 12:13:20 -0700, Lathi.Tan@gmail.com wrote:
>>
>> >I asked what I don't know. I am expecting a helpful answer.
>>

>> The problem was, you got some prior answers and then wanted to argue
>> about it.
>> >
>> >The frequency is 70MHz.
>>
>> Then, assuming some type of filtering around that frequency that's
>> more or less where your system will likely oscillate.
>>
>> One reason superhetrodyne receivers were developed to replace TRF
>> receivers was to develop system gain at different frequencies so as to
>> minimize the chance of oscillation. Another, of course was to achieve
>> better selectivity that with older technology was better accomplished
>> at lower frequencies.
>>
>> Even a single conversion receiver usually develops its gain at three
>> different frequencies: r-f, i-f and post detection.
>

```
From -7293750566000442146
X-Google-Thread: fc2a5,500c4bb31d00422
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: step motor info please
Date: 15 Oct 2006 19:41:47 -0700
Organization: http://groups.google.com
Lines: 43
Message-ID: <1160966507.180397.128950@e3g2000cwe.googlegroups.com>
References: <icyYg.14335$vJ2.13689@newssvr12.news.prodigy.com>
NNTP-Posting-Host: 71.112.170.245
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160966510 16508 127.0.0.1 (16 Oct 2006 02:41:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 16 Oct 2006 02:41:50 +0000 (UTC)
In-Reply-To: <icyYg.14335$vJ2.13689@newssvr12.news.prodigy.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=71.112.170.245;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7436
```

On Oct 15, 3:00 pm, larry d clark <buddycl@nospam_swbell.net> wrote:

> i have always wanted to build a step motor driven
> balanced tuner. i have acquired an excellent tx air capacitor
> and 2 matched 28 uh roller inductors. next step is
> to acquire 2 step motors with some kind of positioning
> indicator, either optical or a pot.
>
> any have any recommendations for a company site, or for
> anyting else related, pulleys, belts, encoders etc
>
> larry
> kd5foy

Some places you'll find surplus steppers:
  Marlin P. Jones Associates, www.mpja.com
  Surplus Center, www.surpluscenter.com (usually not many steppers, though)
  Herbach & Rademan, www.herbach.com
There are plenty of others. Some of these also have other drive components. You may also find just what you need in an old printer or pen plotter. I have a friend who has a bunch of big old printers and keeps talking about cleaning out his garage. He'd probably give you one for free, but you'd have to ship it. You may have someone like that near you.

You may need to gear down (or otherwise step down the speed) of the motor to get enough torque to drive the capacitor and inductors.

Especially if you use steppers, you may only need to detect a "home" position, since you can count steps from there and know where you are (or rather where the capacitor and inductors are). A continuous servo system may only need to know the ends of travel, to know that it can't go beyond those points.

If you want it to auto-tune, you may find it easier to just use DC motors, though doing so successfully would probably take some understanding of servo control systems.

Cheers,
Tom

From -8441941744649111385
X-Google-Thread: fc2a5,500c4bb31d00422
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!newspeer.tds.net!216.170.153.140.MISMATCH!newsreading01.news.tds.net!53ab2750!not-for-mail
From: "John, N9JG" <john@Xremove.MeYgotwals.com>
Newsgroups: rec.radio.amateur.homebrew
References: <icyYg.14335$vJ2.13689@newssvr12.news.prodigy.com>
Subject: Re: step motor info please
Lines: 20

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Organization: CLM ARRL
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <%ZMYg.6624$5i7.6574@newsreading01.news.tds.net>
Date: Mon, 16 Oct 2006 14:49:31 GMT
NNTP-Posting-Host: 69.130.133.142
X-Complaints-To: news@tds.net
X-Trace: newsreading01.news.tds.net 1161010171 69.130.133.142 (Mon, 16 Oct 2006
09:49:31 CDT)
NNTP-Posting-Date: Mon, 16 Oct 2006 09:49:31 CDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7437

You also might want to checkout these two links:
http://www.stepperstuff.com/
http://www.sscnet.ucla.edu/geog/gessler/topics/steppers.htm

"larry d clark" <buddycl@nospam_swbell.net> wrote in message
news:icyYg.14335$vJ2.13689@newssvr12.news.prodigy.com...
>
> i have always wanted to build a step motor driven
> balanced tuner. i have acquired an excellent tx air capacitor
> and 2 matched 28 uh roller inductors.  next step is
> to acquire 2 step motors with some kind of positioning
> indicator, either optical or a pot.
>
> any have any recommendations for a company site, or for
> anyting else related, pulleys, belts, encoders etc
>
> larry
> kd5foy




From 6897242751453955582
X-Google-Thread: fc2a5,500c4bb31d00422
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 16 Oct 2006 11:09:36 -0500
Date: Mon, 16 Oct 2006 09:09:34 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: step motor info please
References: <icyYg.14335$vJ2.13689@newssvr12.news.prodigy.com>
```

```
<1160966507.180397.128950@e3g2000cwe.googlegroups.com>
In-Reply-To: <1160966507.180397.128950@e3g2000cwe.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <3cqdnaLwfeFdM67YnZ2dnUVZ_omdnZ2d@web-ster.com>
Lines: 66
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-
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tQMgnekCzSt4qc+PFuM9yL+6wgJ++2NiVdMnWGtLGMUL+yCbbEBNYJoTjxnoIPsx4jNLBs8wy6Zf!
R54Lk5weAy8yx6Q7
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7438

K7ITM wrote:

>
> On Oct 15, 3:00 pm, larry d clark <buddycl@nospam_swbell.net> wrote:
>
>>i have always wanted to build a step motor driven
>>balanced tuner. i have acquired an excellent tx air capacitor
>>and 2 matched 28 uh roller inductors.  next step is
>>to acquire 2 step motors with some kind of positioning
>>indicator, either optical or a pot.
>>
>>any have any recommendations for a company site, or for
>>anyting else related, pulleys, belts, encoders etc
>>
>>larry
>>kd5foy
>
>
> Some places you'll find surplus steppers:
>   Marlin P. Jones Associates, www.mpja.com
>   Surplus Center, www.surpluscenter.com (usually not many steppers,
> though)
>   Herbach & Rademan, www.herbach.com
> There are plenty of others.  Some of these also have other drive
> components.  You may also find just what you need in an old printer or
> pen plotter.  I have a friend who has a bunch of big old printers and
> keeps talking about cleaning out his garage.  He'd probably give you
> one for free, but you'd have to ship it.  You may have someone like
> that near you.
>
> You may need to gear down (or otherwise step down the speed) of the
> motor to get enough torque to drive the capacitor and inductors.
>
> Especially if you use steppers, you may only need to detect a "home"
```

> position, since you can count steps from there and know where you are
> (or rather where the capacitor and inductors are). A continuous servo
> system may only need to know the ends of travel, to know that it can't
> go beyond those points.
>
> If you want it to auto-tune, you may find it easier to just use DC
> motors, though doing so successfully would probably take some
> understanding of servo control systems.
>
> Cheers,
> Tom
>

If you decide to use DC motors, and if you decide to drive them from a microprocessor (which would be indicated if you're planning on tuning it under computer control or auto-tuning), this may help: http://www.wescottdesign.com/articles/pidwophd.html.

But I'm not sure that it would be necessary -- as long as you've got _something_ that'll locate the variable components where you want them and does so reliably it doesn't matter whether they're DC motors or steppers.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From 4455156448827958717
X-Google-Thread: fc2a5,500c4bb31d00422
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 16 Oct 2006 12:22:09 -0500
Date: Mon, 16 Oct 2006 10:22:09 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: step motor info please
References: <icyYg.14335$vJ2.13689@newssvr12.news.prodigy.com>
In-Reply-To: <icyYg.14335$vJ2.13689@newssvr12.news.prodigy.com>
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MOPGlhnY9aiblJd5XjFaJhYmy9rLO0ApqocIo9jFSapTrCYqCjsvD1Vwg8wIf9iZHPx3QEx3lw/V!
J89OhcownhutJb9p
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7439

larry d clark wrote:

> i have always wanted to build a step motor driven
> balanced tuner. i have acquired an excellent tx air capacitor
> and 2 matched 28 uh roller inductors. next step is
> to acquire 2 step motors with some kind of positioning
> indicator, either optical or a pot.
>
> any have any recommendations for a company site, or for
> anyting else related, pulleys, belts, encoders etc
>
> larry
> kd5foy

Be careful sizing your steppers. The biggest drawback to designing with steppers is that if you exceed their available torque they'll quietly fail, and your system will do Very Bad Things. So you want to over-specify your stepper motors by quite a bit.

You'll need to consider two things when doing this: the amount of torque it takes to turn your inductors, and their rotational inertia (which will determine how fast you can accelerate them without causing grief). You can determine your necessary torque experimentally with a lever arm and weights, and you can determine your torque available from a 'mystery motor' in a similar manner -- there's even a web page out there to tell you how to do it, if you look for it.

Once you have selected steppers that are big enough, you'll know their other drawback: they take up a lot of space compared to DC motors with feedback.

But it's easy to understand how to control them, and you don't need to figure out complicated position feedback schemes, so maybe steppers are the right choice for you. If I were you I'd just use a stepper and a pair of home switches -- one to tell me that the roller is at one extreme of travel, and another to tell me that the drum has passed by an index mark. If you 'and' these two signals together you'll get a reliable home. Then each time your system starts up you just run the steppers down to the home position, and back to where you want them.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From -7960196866934674219
X-Google-Thread: fc2a5,5f27ac05e40fa117
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-
mail
From: "Denny" <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: testing ferrite or iron powder toroids as to mix
Date: 16 Oct 2006 14:18:55 -0700
Organization: http://groups.google.com
Lines: 4
Message-ID: <1161033535.072648.101340@b28g2000cwb.googlegroups.com>
References: <_zQXg.1894$Db4.268540@news1.epix.net>
   <OR2Yg.1021387$084.658192@attbi_s22>
   <i29Yg.2016$Db4.272448@news1.epix.net>
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 16 Oct 2006 21:19:01 +0000 (UTC)
In-Reply-To: <i29Yg.2016$Db4.272448@news1.epix.net>
User-Agent: G2/1.0
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Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=24.247.246.156;
   posting-account=GhrC0g0AAACdrABM-CDx8Fhs5lKJR5q2
Xref: g2news2.google.com rec.radio.amateur.homebrew:7440
```

The extremely high permeability materials are not good for HF...

denny / k8do

```
From 7980062644043671160
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
From: Slow Code <my.mail@no.spam>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
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Organization: None
User-Agent: Xnews/5.04.25
Lines: 80
Message-ID: <AEVYg.10362$Y24.1904@newsread4.news.pas.earthlink.net>
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X-Trace: newsread4.news.pas.earthlink.net 1161045664 4.227.160.137 (Mon, 16 Oct
2006 17:41:04 PDT)
NNTP-Posting-Date: Mon, 16 Oct 2006 17:41:04 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6019
rec.radio.amateur.homebrew:7441 rec.radio.amateur.policy:50123 rec.radio.swap:8626

Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
news:NN-dnexaGIaKeLPYnZ2dnUVZ_rydnZ2d@rcn.net:

> Slow Code wrote:
>> Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
>
>>> While you are being all holier than thou, what did you design and
>>> build for your main rig?  I'm hoping to be impressed, but expecting to
>>> be disappointed.
>>>
>>> Did the code help you with the design?
>>>
>>> I took my Advanced class test down at 1919 M street 36 years ago.  I
>>> had to sit at the desk and copy one solid minute out of five error
>>> free at 13WPM. I passed it on the first try.  I almost failed the
>>> sending test, as I had never spent much time doing that.  I had never
>>> made a code contact before my test, and I have only made a couple
>>> since.
>>>
```

>>> The thing about code contacts is they never seem to want to say
>>> anything beyond:
>>>
>>> WA3XXX DE W6XX RST 5NN WX FB 73 W6XX SK
>>>
>>> How does that help the cause of amateur radio?
>>>
>>> I have designed and built numerous rf receivers and transmitters, many
>>> are employed by the US Army for various uses. I have fixed many
>>> different radios from tube stuff through DSP driven affairs.
>>>
>>> How exactly did the code help me to do this?
>>>
>>> For me code was a means to an end. I wanted my license, so I learned
>>> the code.
>>>
>>> There were plenty of rude, profane, and generally unpleasant hams on
>>> the air back when all had to pass the test in the offices of the FCC.
>>> I haven't noticed that things are any worse now. About the only real
>>> difference is in the quality of the gear folks are running. It is
>>> much better than the crappy stuff that was on the air back in the
>>> early 70's.
>>>
>>> -Chuck
>>
>>
>> Are conversations on repeaters as technical as they were twenty-five
>> years ago?
>
> Oh, easily. 25 years ago, technical conversations were dominated by
> such earth shatteringly important stuff as having a ham down at the
> repeater site helping other hams tune their transmitters to be on
> frequency. Other wonderkind were hitting the repeater with a full
> quieting signal, and turning their power up to try and get a better
> signal to that DX mobile that breaking up.
>
> If it wasn't that, it was an endless sea of autopatches calling the xyl
> to tell her that traffic was bad, could she start dinner... or ordering
> pizza.
>
>>
>> Me? I hear no-codes and nickle extras arguing how long a half wave
>> dipole should be.
>
> I heard the same things 25 years ago from Generals that got their
> licenses at the offices of the FCC.
>
> Even 34 years ago, there were study guides that had questions from the
> pool used by the FCC. If you could memorize the answers to those
> questions, you were virtually assured of passing. I used the ARRL
> handbook as my guide.
>
> You didn't answer my questions about the home brew rig you are using.

>
> -Chuck

Construction projects you or I have done aren't important. Working to
insure ham radio doesn't turn into CB is important. Agreed?

SC

From -3725919106977426900
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
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X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: clean up the ars turn in your license
Date: Mon, 16 Oct 2006 20:58:32 -0400
Message-ID: <hka8j2pbjgcbfj6vlbtsb6gmdu0c1eo359@4ax.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
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dnexaGIaKeLPYnZ2dnUVZ_rydnZ2d@rcn.net>
<AEVYg.10362$Y24.1904@newsread4.news.pas.earthlink.net>
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Content-Transfer-Encoding: 7bit
Lines: 19
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X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6021
rec.radio.amateur.homebrew:7442 rec.radio.amateur.policy:50141 rec.radio.swap:8633

On Tue, 17 Oct 2006 00:41:04 GMT, Slow Code <my.mail@no.spam> wrote:

>Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
>news:NN-dnexaGIaKeLPYnZ2dnUVZ_rydnZ2d@rcn.net:
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>> Slow Code wrote:
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>>
>> -Chuck
>
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>insure ham radio doesn't turn into CB is important. Agreed?
no you need to answer the question steve
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -5502904121605060757
X-Google-Thread: fc2a5,500c4bb31d00422
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe12.lga.POSTED!53ab2750!not-for-mail
From: "Yuri Blanarovich" <K3BU@optonline.net>
Newsgroups: rec.radio.amateur.homebrew
References: <icyYg.14335$vJ2.13689@newssvr12.news.prodigy.com>
<9J6dnRZaiJhcIq7YnZ2dnUVZ_vidnZ2d@web-ster.com>
Subject: Re: step motor info please
Lines: 22
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X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2869
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X-Complaints-To: abuse@cv.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
akgkhakholpmeiiekannfilpcpbbolnmbgkdnokjmaodjacnkcgjjkmbhgfpbklkajbelmkmffiegcpooj
ocijcccljcpjmolmdmaimhepnlddlfclefckjclkopdandhgindeflifgphkdl
NNTP-Posting-Date: Mon, 16 Oct 2006 18:53:49 MST
Organization: Optimum Online
Date: Mon, 16 Oct 2006 21:53:44 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:7443

>
> Be careful sizing your steppers. The biggest drawback to designing with
> steppers is that if you exceed their available torque they'll quietly
> fail, and your system will do Very Bad Things. So you want to
> over-specify your stepper motors by quite a bit.

>
> >
> Tim Wescott
> Wescott Design Services
> http://www.wescottdesign.com

There is a way around the initial high torque, like friction loads etc. You can use torsion spring/shaft to delay the application of torque to the step motor. Had that problem back at IBM and solved it with torsion shaft spring (Allen key), had invention disclosure on it and it was the only way to get around the problem due to limited space/size of the motor.

Yuri K3BU.us
www.computeradio.us

From 2290995246749586425
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 16 Oct 2006 21:53:12 -0500
Date: Mon, 16 Oct 2006 22:52:28 -0400
From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.0.6) Gecko/20060730 SeaMonkey/1.0.4
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
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<Z4cXg.2828$ya1.2518@news02.roc.ny>
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In-Reply-To: <AEVYg.10362$Y24.1904@newsread4.news.pas.earthlink.net>
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ADjAgVhPEpJr
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6022
rec.radio.amateur.homebrew:7444 rec.radio.amateur.policy:50176 rec.radio.swap:8655

Slow Code wrote:

>> Even 34 years ago, there were study guides that had questions from the
>> pool used by the FCC.  If you could memorize the answers to those
>> questions, you were virtually assured of passing.  I used the ARRL
>> handbook as my guide.
>>
>> You didn't answer my questions about the home brew rig you are using.
>>
>> -Chuck
>
>
> Construction projects you or I have done aren't important.  Working to
> insure ham radio doesn't turn into CB is important.  Agreed?

Oh, I agree, but if you do too, then I have trouble understanding why
you are ragging on folks that are using store bought radios.

-Chuck



From 177387424245823168
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: Mon, 16 Oct 2006 23:08:49 -0400
Message-ID: <a9i8j2plq40j8sgugnlrq181685le1m3jm@4ax.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
```

```
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<kXAXg.10765$o71.3942@newsread3.news.pas.earthlink.net> <NN-
dnexaGIaKeLPYnZ2dnUVZ_rydnZ2d@rcn.net>
<AEVYg.10362$Y24.1904@newsread4.news.pas.earthlink.net>
<bLydncmhdskF2KnYnZ2dnUVZ_o-dnZ2d@rcn.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 25
NNTP-Posting-Date: 17 Oct 2006 02:13:43 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6023
rec.radio.amateur.homebrew:7445 rec.radio.amateur.policy:50180 rec.radio.swap:8656
```

On Mon, 16 Oct 2006 22:52:28 -0400, Chuck Harris
<cf-NO-SPAM-harris@erols.com> wrote:

```
>Slow Code wrote:
>
>>> Even 34 years ago, there were study guides that had questions from the
>>> pool used by the FCC.  If you could memorize the answers to those
>>> questions, you were virtually assured of passing.  I used the ARRL
>>> handbook as my guide.
>>>
>>> You didn't answer my questions about the home brew rig you are using.
>>>
>>> -Chuck
>>
>>
>> Construction projects you or I have done aren't important.  Working to
>> insure ham radio doesn't turn into CB is important.  Agreed?
>
>Oh, I agree, but if you do too, then I have trouble understanding why
>you are ragging on folks that are using store bought radios.
```

he is waving his hands tso fast that they are catching on fire

```
>
>-Chuck
```

http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

```
From -9076828775650035042
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
```

```
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone.austin.rr.com!news.rr.com!
tornado.texas.rr.com.POSTED!53ab2750!not-for-mail
From: "U-Know-Who" <no-one@nowhere.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
<MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
<kXAXg.10765$o71.3942@newsread3.news.pas.earthlink.net> <NN-
dnexaGIaKeLPYnZ2dnUVZ_rydnZ2d@rcn.net>
<AEVYg.10362$Y24.1904@newsread4.news.pas.earthlink.net>
Subject: Re: Question for the group. Mainly new hams.
Lines: 91
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <XcYYg.900$um6.99@tornado.texas.rr.com>
Date: Tue, 17 Oct 2006 03:36:23 GMT
NNTP-Posting-Host: 67.10.92.242
X-Complaints-To: abuse@rr.com
X-Trace: tornado.texas.rr.com 1161056183 67.10.92.242 (Mon, 16 Oct 2006 22:36:23
CDT)
NNTP-Posting-Date: Mon, 16 Oct 2006 22:36:23 CDT
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6024
rec.radio.amateur.homebrew:7446 rec.radio.amateur.policy:50184 rec.radio.swap:8657


"Slow Code" <my.mail@no.spam> wrote in message
news:AEVYg.10362$Y24.1904@newsread4.news.pas.earthlink.net...
> Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
> news:NN-dnexaGIaKeLPYnZ2dnUVZ_rydnZ2d@rcn.net:
>
>> Slow Code wrote:
>>> Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
>>
>>>> While you are being all holier than thou, what did you design and
>>>> build for your main rig?  I'm hoping to be impressed, but expecting to
>>>> be disappointed.
>>>>
>>>> Did the code help you with the design?
>>>>
>>>> I took my Advanced class test down at 1919 M street 36 years ago.  I
>>>> had to sit at the desk and copy one solid minute out of five error
```

>>>> free at 13WPM. I passed it on the first try. I almost failed the
>>>> sending test, as I had never spent much time doing that. I had never
>>>> made a code contact before my test, and I have only made a couple
>>>> since.
>>>>
>>>> The thing about code contacts is they never seem to want to say
>>>> anything beyond:
>>>>
>>>> WA3XXX DE W6XX RST 5NN WX FB 73 W6XX SK
>>>>
>>>> How does that help the cause of amateur radio?
>>>>
>>>> I have designed and built numerous rf receivers and transmitters, many
>>>> are employed by the US Army for various uses. I have fixed many
>>>> different radios from tube stuff through DSP driven affairs.
>>>>
>>>> How exactly did the code help me to do this?
>>>>
>>>> For me code was a means to an end. I wanted my license, so I learned
>>>> the code.
>>>>
>>>> There were plenty of rude, profane, and generally unpleasant hams on
>>>> the air back when all had to pass the test in the offices of the FCC.
>>>> I haven't noticed that things are any worse now. About the only real
>>>> difference is in the quality of the gear folks are running. It is
>>>> much better than the crappy stuff that was on the air back in the
>>>> early 70's.
>>>>
>>>> -Chuck
>>>
>>>
>>> Are conversations on repeaters as technical as they were twenty-five
>>> years ago?
>>
>> Oh, easily. 25 years ago, technical conversations were dominated by
>> such earth shatteringly important stuff as having a ham down at the
>> repeater site helping other hams tune their transmitters to be on
>> frequency. Other wonderkind were hitting the repeater with a full
>> quieting signal, and turning their power up to try and get a better
>> signal to that DX mobile that breaking up.
>>
>> If it wasn't that, it was an endless sea of autopatches calling the xyl
>> to tell her that traffic was bad, could she start dinner... or ordering
>> pizza.
>>
>>>
>>> Me? I hear no-codes and nickle extras arguing how long a half wave
>>> dipole should be.
>>
>> I heard the same things 25 years ago from Generals that got their
>> licenses at the offices of the FCC.
>>
>> Even 34 years ago, there were study guides that had questions from the

>> pool used by the FCC. If you could memorize the answers to those
>> questions, you were virtually assured of passing. I used the ARRL
>> handbook as my guide.
>>
>> You didn't answer my questions about the home brew rig you are using.
>>
>> -Chuck
>
>
> Construction projects you or I have done aren't important. Working to
> insure ham radio doesn't turn into CB is important. Agreed?
>
> SC

SC, tell us all, and don't lie. Do you not agree that a LOT of hams today
were CB'ers in the '70's and chose to advance their radio skills by
advancing to ham radio? If you disagree, then 1) you're a liar, and 2) did
this not help the service? And thusly, if you disagree I suspect you fit
into this mold, and choose to deny your past.

From -3376396078955302485
X-Google-Thread: f64c6,3010b0fa78ab7f95
X-Google-Thread: 107ada,3010b0fa78ab7f95
X-Google-Thread: fc2a5,3010b0fa78ab7f95
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.hawaiiantel.net!
news.hawaiiantel.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 16 Oct 2006 22:46:33 -0500
Message-ID: <4534523D.4080707@rickfrazier.com>
Date: Mon, 16 Oct 2006 17:47:09 -1000
From: Rick Frazier <rickf@rickfrazier.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
To: "If M3 is the answer, it's a silly question!" <me@privacy.net>
Subject: Re: What Is Ham Radio?......The FAQ
References: <eduk6e$f94$1@emma.aioe.org>
In-Reply-To: <eduk6e$f94$1@emma.aioe.org>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 38
NNTP-Posting-Host: 72.234.104.93
X-Trace:
sv3-60o0Bek2ubZc1ZOZ3p1OaJ2afrJ+WQdo92+qmTuJx9KAiZpakulgGyE8dFVkn3EES9AKEP+J3UuN+w
d!On/At6e5oS7iV9aol7wQzUs1RoGe6yfLaJaSTD3WcPfgK+aYYz4/icR0fC768pYDKDjn+H7Ky+Qe!
Pg==

X-Complaints-To: abuse@hawaiiantel.net
X-DMCA-Complaints-To: abuse@hawaiiantel.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com uk.radio.amateur:55005 rec.radio.amateur.misc:24211 rec.radio.amateur.homebrew:7447

Well, in my part of the world, and the parts I can talk to lately, the most negative issues around "ham radio" are on the internet newsgroups, not on the airwaves.   It is unfortunate that anyone would take the rantings and attacks of the few obviously "impaired" individuals that continually post crap in the newsgroups, as something that is indicative of the general state of "Radio Hammery". As with any human endeavor, there will always be some bad apples, and in usenet newsgroups, there is absolutely NO filter to keep out the people who wish to disrupt everyone else. At least not yet. Someday, when we all pay for our posts (it's coming, believe me) and we all digitally sign our posts to ensure we are who we say we are, then maybe we'll have civility and normalcy come back to the newsgroups. Until then, at least, the comraderie and decency of true hams will still shine out on the air, in good times and during emergencies, and we will all be seen for what we are, not what a few whackos would like you to believe we are turning into....

Thanks
--Rick AH7H

If M3 is the answer, it's a silly question! wrote:
> A necessary preface.....
>
> (It is becoming increasingly difficult to fly the flag for decency and for civilised behaviour in Radio Hammery. Even the Usenet newsgroups dedicated to the cause have degenerated into a hotbed of abusive onslaughts by those who ought to know better; the Nugatory Numpties who boast of an interest exceeding 10, 20, 30, 40 or even 50 years and yet who have proved themselves incapable of even meeting the trivial exam standards set for 6-year-olds. However, there still exists the fundamental basis on which Ham Radio is based, and that will never die. This FAQ ("What Is Ham Radio?") will be regularly published and will not be shouted or bullied down. It is important that those of a technical bent, who are the natural seed-corn of Radio Hammery and who gravitate towards us to be the real novitiate, can still find us, (and know that we are still here), their fellows.)

---snip----

From 6262102407122785658
X-Google-Thread: f64c6,3010b0fa78ab7f95
X-Google-Thread: 107ada,3010b0fa78ab7f95
X-Google-Thread: fc2a5,3010b0fa78ab7f95

```
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bt.com!news.bt.com.POSTED!
not-for-mail
NNTP-Posting-Date: Tue, 17 Oct 2006 03:47:54 -0500
Reply-To: "david" <david_perry@btconnect.com>
From: "david" <david_perry@btconnect.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <eduk6e$f94$1@emma.aioe.org> <4534523D.4080707@rickfrazier.com>
Subject: Re: What Is Ham Radio?......The FAQ
Date: Tue, 17 Oct 2006 09:47:57 +0100
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <lJOdnYUUm9AnBanYnZ2dnUVZ8tCdnZ2d@bt.com>
Lines: 9
NNTP-Posting-Host: 86.144.57.138
X-AuthenticatedUsername: NoAuthUser
X-Trace: sv3-ELDBdDClRpRN5+qx1jppbD9XGnx5+gCvHiwKE4Lnmd0/8x/gkeisi7s0ayS1qf/
Kuqq1HpjWz2Frhds!vyhB0AIMGV54GGhRhsQ0ndYyuKfJgqW3vNL0YPzuR/qSY16IIDi/
v0w8VM6f6nRNn+t0DSYPfBQ=
X-Complaints-To: abuse@btinternet.com
X-DMCA-Complaints-To: abuse@btinternet.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com uk.radio.amateur:55026 rec.radio.amateur.misc:24214
rec.radio.amateur.homebrew:7448
```

Someday, when we all pay for our posts (it's
> coming, believe me)

That'll be the day when ham radio comes back to life then. Paying for posts?
That's paying for toilet paper on a wipe by wipe basis.

D

```
From -1732944743475189748
X-Google-Thread: fc2a5,500c4bb31d00422
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newshub.sdsu.edu!
newscon04.news.prodigy.net!prodigy.net!newsdst01.news.prodigy.net!prodigy.com!
postmaster.news.prodigy.com!newssvr12.news.prodigy.com.POSTED!0e0965b7!not-for-
mail
```

```
From: larry d clark <buddycl@nospam_swbell.net>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: re: step motor info please
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 0641-5, 10/16/2006), Outbound message
X-Antivirus-Status: Not-Tested
Lines: 5
Message-ID: <6f4Zg.14784$vJ2.8950@newssvr12.news.prodigy.com>
NNTP-Posting-Host: 70.128.218.234
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr12.news.prodigy.com 1161089090 ST000 70.128.218.234 (Tue, 17 Oct
2006 08:44:50 EDT)
NNTP-Posting-Date: Tue, 17 Oct 2006 08:44:50 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
[[PGG_SGQBWASWXXN[OJNW@@YJ_ZTB\MV@BT]UEK@YUDUWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
TINTDDMVW[X\THOPXZRVOCJTUTPC\_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Tue, 17 Oct 2006 12:44:50 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7449


many tnx for the excellent suggestions

larry
kd5foy



From 8096660928501720504
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: hot-ham-and-cheese@hotmail.com
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: 17 Oct 2006 06:28:48 -0700
Organization: http://groups.google.com
Lines: 20
Message-ID: <1161091728.610995.236060@m7g2000cwm.googlegroups.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
NNTP-Posting-Host: 4.224.231.206
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
```

```
X-Trace: posting.google.com 1161091733 10675 127.0.0.1 (17 Oct 2006 13:28:53 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 17 Oct 2006 13:28:53 +0000 (UTC)
In-Reply-To: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=4.224.231.206;
   posting-account=mMyuWQ0AAAANPpX1wK2NRuuQfAjm_kIo
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6025
rec.radio.amateur.homebrew:7450 rec.radio.amateur.policy:50220 rec.radio.swap:8660
```

Slow Code wrote:
> What do you like best about appliance operating?
>
> SC

Dear Slow, I'm a new ham. I passed my Novice Exams in November of
1986, so in Ham Years, I'm a new ham.

What do I like best about appliance operating? I like the features and
the ease of cleanup. The new GE range we have allows me to scroll up
to the desired operating temperature, and push the "ON" button. Then
"Pre" is shown on the temp readout until the oven comes up to
temperature. And the smooth glass stove top is a snap to cleanup. If
something should boil over, you don't have to lift up the burners and
take the spill pans out, etc. Just a quick wipe with a damp dish
cloth. It doesn't get much better than that.

Thanks for asking.

```
From -7590658102071775018
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-
mail
From: "an_old_friend" <konstans@hotmail.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: 17 Oct 2006 11:06:11 -0700
Organization: http://groups.google.com
Lines: 23
Message-ID: <1161108371.016803.159340@h48g2000cwc.googlegroups.com>
```

```
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
   <1161091728.610995.236060@m7g2000cwm.googlegroups.com>
NNTP-Posting-Host: 69.19.14.42
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161108376 21944 127.0.0.1 (17 Oct 2006 18:06:16 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 17 Oct 2006 18:06:16 +0000 (UTC)
In-Reply-To: <1161091728.610995.236060@m7g2000cwm.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h48g2000cwc.googlegroups.com; posting-host=69.19.14.42;
   posting-account=5Yl6pg0AAADpwOMWiAfWEILF9IbswBYm
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6029
rec.radio.amateur.homebrew:7451 rec.radio.amateur.policy:50232 rec.radio.swap:8664


hot-ham-and-cheese@hotmail.com wrote:
> Slow Code wrote:
> > What do you like best about appliance operating?
> >
> > SC
>
> Dear Slow, I'm a new ham.  I passed my Novice Exams in November of
> 1986, so in Ham Years, I'm a new ham.
>
> What do I like best about appliance operating?  I like the features and
> the ease of cleanup.  The new GE range we have allows me to scroll up
> to the desired operating temperature, and push the "ON" button.  Then
> "Pre" is shown on the temp readout until the oven comes up to
> temperature.  And the smooth glass stove top is a snap to cleanup.  If
> something should boil over, you don't have to lift up the burners and
> take the spill pans out, etc.  Just a quick wipe with a damp dish
> cloth.  It doesn't get much better than that.
>
> Thanks for asking.
amzing the thing these procoders want to know. they keep reenforceing
the notion OOKed cw must have harmfull effects on the brain




From 6282751181035922303
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
peer01.cox.net!cox.net!p01!fed1read04.POSTED!53ab2750!not-for-mail
```

From: "Caveat Lector" <CL@nowhere.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<1161091728.610995.236060@m7g2000cwm.googlegroups.com>
<1161108371.016803.159340@h48g2000cwc.googlegroups.com>
Subject: Re: Question for the group. Mainly new hams.
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <pi9Zg.46947$nm1.8930@fed1read04>
Date: Tue, 17 Oct 2006 11:29:38 -0700
NNTP-Posting-Host: 72.197.12.245
X-Complaints-To: abuse@cox.net
X-Trace: fed1read04 1161109781 72.197.12.245 (Tue, 17 Oct 2006 14:29:41 EDT)
NNTP-Posting-Date: Tue, 17 Oct 2006 14:29:41 EDT
Organization: Cox Communications
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6031
rec.radio.amateur.homebrew:7452 rec.radio.amateur.policy:50233 rec.radio.swap:8665

When you passed the FCC exam - you are an Amateur Radio Operator period --
plain and simple.

Whether you passed a 20 wpm code test or no code - you are a Ham

Whether you had to draw the schematic for a Colpitts Oscillator or not - you
are a Ham

Whether you faced the steely-eyed FCC examiner or a VE -- you are a Ham

Those who say otherwise are shrouded in elitism and a synonym for elitism
is snobbery - plain and simple

This is 2006, not 1920

CL

From 8590784638456792488
X-Google-Thread: fc2a5,5f27ac05e40fa117
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news2.volia.net!newsfeed01.sul.t-online.de!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!border2.nntp.ams.giganews.com!nntp.giganews.com!sn-xt-ams-06!sn-xt-ams-03!sn-post-ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: testing ferrite or iron powder toroids as to mix
Date: Tue, 17 Oct 2006 14:01:50 -0700
Organization: EZNEC Antenna Software
Message-ID: <12jah608stlrpf1@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <_zQXg.1894$Db4.268540@news1.epix.net>
<OR2Yg.1021387$084.658192@attbi_s22> <i29Yg.2016$Db4.272448@news1.epix.net>
In-Reply-To: <i29Yg.2016$Db4.272448@news1.epix.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 57
Xref: g2news2.google.com rec.radio.amateur.homebrew:7453

dave wrote:

> Well, I wound 6 turns of #26 enamel magnet wire onto on of the surplus
> toroids. It measures an whopping 714uH on my Almost All Digital Electronics
> LC meter.
>
> The toroid measures a bit less than 1 inch OD but definitely more than
> 0.94". I don't have a set of calipers here but it looks to be about 0.97"
> based on the ruler I have. The ID is about 0.50 inches. The thickness is
> about 0.34". These dimensions don't seem to be standard. By the way, here
> is the listing for these toroids:
>
>   http://www.goldmine-elec-products.com/prodinfo.asp?number=G6683
>
> This inductance seems way too high - either I'm getting a false reading or
> else this not a good material to make RF transformers / inductors with?
> . . .

There isn't a single material that's good for both broadband transformers and high-Q inductors. For broadband transformers, you want a winding impedance that's at least several times (5 - 10 is a usual rule of thumb) the level of impedance the winding is connected to. Unless you're dealing with a lot of power, the sign of the impedance doesn't matter, except that resistive impedance is desirable because it stays relatively constant with frequency and doesn't contribute to undesirable resonances. So high-permeability ("low frequency") ferrite cores are best for this at HF, since they give the highest impedance per turn squared. These cores are also good for EMI suppression because they're free from resonance effects over the HF range and beyond, and they maintain a relatively constant resistive impedance over many decades of frequency. See the Fair-Rite web site for typical values for various materials.

But the impedance of those high-permeability ferrite cores is typically resistive above a few MHz, and the Q is no more than a few over the entire HF range. So they're not suitable for use as high-Q inductors or tuned transformers. For that purpose, you're almost always better off using powdered iron cores. There are some high-frequency ferrites, but they tend to have a high temperature coefficient and have to be used with care if any DC bias is present, since they saturate much more easily than powdered iron. Also, it's often difficult to achieve as good Q with them as with powdered iron. So I generally use high-permeability ferrite for transformers, and powdered iron for high-Q inductors. There are, incidentally, some low frequency powdered irons which aren't suitable for this application at HF and above. I generally use MicroMetals type 6 material, and occasionally type 2.

What you really need to know is the type of ferrite or powdered iron you're dealing with. You can infer this by measuring the low frequency inductance with an inductance meter, then using that information along with the core dimensions to calculate the material permeability. From there, you can find a likely ferrite or powdered iron type and from a manufacturer's web site get the impedance at the frequency of interest. A much more direct way is to simply measure the complex impedance of a one- or few-turn inductor at the frequency of interest with an antenna analyzer or impedance bridge if you have either of those instruments.

Roy Lewallen, W7EL

From -2115012489340519283
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-mail
From: hot-ham-and-cheese@hotmail.com
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: 17 Oct 2006 14:08:21 -0700
Organization: http://groups.google.com
Lines: 21
Message-ID: <1161119301.113067.200270@b28g2000cwb.googlegroups.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<1161091728.610995.236060@m7g2000cwm.googlegroups.com>
<1161108371.016803.159340@h48g2000cwc.googlegroups.com>
<pi9Zg.46947$nm1.8930@fed1read04>
NNTP-Posting-Host: 4.224.231.23
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161119306 19226 127.0.0.1 (17 Oct 2006 21:08:26 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 17 Oct 2006 21:08:26 +0000 (UTC)
In-Reply-To: <pi9Zg.46947$nm1.8930@fed1read04>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR

1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=4.224.231.23;
   posting-account=mMyuWQ0AAAANPpX1wK2NRuuQfAjm_kIo
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6034
rec.radio.amateur.homebrew:7454 rec.radio.amateur.policy:50239 rec.radio.swap:8666

Caveat Lector wrote:
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>
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>
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> are a Ham
>
> Whether you faced the steely-eyed FCC examiner or a VE -- you are a Ham
>
> Those who say otherwise are shrouded in elitism and a synonym for elitism
> is snobbery - plain and simple
>
> This is 2006, not 1920
>
> CL

You got that right.

From 3314109608542069979
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-mail
From: N2EY@AOL.COM
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: 17 Oct 2006 15:02:14 -0700
Organization: http://groups.google.com
Lines: 95
Message-ID: <1161122534.513340.243530@k70g2000cwa.googlegroups.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
   <nOLWg.2685$Ka1.1928@news01.roc.ny>
   <28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
   <Z4cXg.2828$ya1.2518@news02.roc.ny>
   <ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>

```
   <MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
   <kXAXg.10765$o71.3942@newsread3.news.pas.earthlink.net>
   <NN-dnexaGIaKeLPYnZ2dnUVZ_rydnZ2d@rcn.net>
   <AEVYg.10362$Y24.1904@newsread4.news.pas.earthlink.net>
NNTP-Posting-Host: 152.163.100.131
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1161122540 27102 127.0.0.1 (17 Oct 2006 22:02:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 17 Oct 2006 22:02:20 +0000 (UTC)
In-Reply-To: <AEVYg.10362$Y24.1904@newsread4.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 7.0; Windows
98),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 Turboweb [rtc-tf053 8.4.1], HTTP/1.1 cache-rtc-
ac02.proxy.aol.com[98A36483] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=152.163.100.131;
   posting-account=gVAhQQwAAAD05tHfjojYiVmJqGmA6Y62
Xref: g2news2.google.com rec.radio.amateur.boatanchors:6036
rec.radio.amateur.homebrew:7455 rec.radio.amateur.policy:50247 rec.radio.swap:8670

Slow Code wrote:
> Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in
> news:NN-dnexaGIaKeLPYnZ2dnUVZ_rydnZ2d@rcn.net:
> > Slow Code wrote:
> >> Chuck Harris <cf-NO-SPAM-harris@erols.com> wrote in

> >>> While you are being all holier than thou, what did you design and
> >>> build for your main rig?  I'm hoping to be impressed, but expecting to
> >>> be disappointed.

> >>> Did the code help you with the design?

> >>> I took my Advanced class test down at 1919 M street 36 years ago.  I
> >>> had to sit at the desk and copy one solid minute out of five error
> >>> free at 13WPM. I passed it on the first try.  I almost failed the
> >>> sending test, as I had never spent much time doing that.  I had never
> >>> made a code contact before my test, and I have only made a couple
> >>> since.

> >>> The thing about code contacts is they never seem to want to say
> >>> anything beyond:

> >>> WA3XXX DE W6XX RST 5NN WX FB 73 W6XX SK

That's not the case when I operate Morse Code.

> >>> How does that help the cause of amateur radio?

> >>> I have designed and built numerous rf receivers and transmitters, many
> >>> are employed by the US Army for various uses.  I have fixed many
> >>> different radios from tube stuff through DSP driven affairs.
```

> >>> How exactly did the code help me to do this?

> >>> For me code was a means to an end. I wanted my license, so I learned
> >>> the code.

> >>> There were plenty of rude, profane, and generally unpleasant hams on
> >>> the air back when all had to pass the test in the offices of the FCC.

I don't remember that at all.

> >>> I haven't noticed that things are any worse now. About the only real
> >>> difference is in the quality of the gear folks are running. It is
> >>> much better than the crappy stuff that was on the air back in the
> >>> early 70's.

There were good and bad rigs then as well as now.

> >> Are conversations on repeaters as technical as they were twenty-five
> >> years ago?
> >
> > Oh, easily. 25 years ago, technical conversations were dominated by
> > such earth shatteringly important stuff as having a ham down at the
> > repeater site helping other hams tune their transmitters to be on
> > frequency. Other wonderkind were hitting the repeater with a full
> > quieting signal, and turning their power up to try and get a better
> > signal to that DX mobile that breaking up.
> >
> > If it wasn't that, it was an endless sea of autopatches calling the xyl
> > to tell her that traffic was bad, could she start dinner... or ordering
> > pizza.
> >
> >> Me? I hear no-codes and nickle extras arguing how long a half wave
> >> dipole should be.
> >
> > I heard the same things 25 years ago from Generals that got their
> > licenses at the offices of the FCC.
> >
> > Even 34 years ago, there were study guides that had questions from the
> > pool used by the FCC. If you could memorize the answers to those
> > questions, you were virtually assured of passing. I used the ARRL
> > handbook as my guide.

Do you mean the License Manual?

It did not have the exact questions and answers in it.

> > You didn't answer my questions about the home brew rig you are using.
> >
> Construction projects you or I have done aren't important.

Yes they are!

> Working to
> insure ham radio doesn't turn into CB is important. Agreed?

BOTH are important.

If you're not running a homebrew or at least home-assembled rig, who
are you to call someone else an appliance operator?

What good are technical *discussions* if they don't translate into
actual working radio systems?

From -1369373843212133403
X-Google-Thread: f64c6,3010b0fa78ab7f95
X-Google-Thread: 107ada,3010b0fa78ab7f95
X-Google-Thread: fc2a5,3010b0fa78ab7f95
X-Google-Thread: fcc6e,1cba8303f76352aa,start
X-Google-Thread: 10bf43,1cba8303f76352aa,start
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,gidfcc6e,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew,rec.radio.amate
ur.antenna,rec.radio.amateur.policy
Subject: Re: What Is Ham Radio?......The FAQ
From: Slow Code <my.mail@no.spam>
References: <eduk6e$f94$1@emma.aioe.org> <4534523D.4080707@rickfrazier.com>
<lJOdnYUUm9AnBanYnZ2dnUVZ8tCdnZ2d@bt.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 17
Message-ID: <MJdZg.10772$Y24.4999@newsread4.news.pas.earthlink.net>
Date: Tue, 17 Oct 2006 23:31:56 GMT
NNTP-Posting-Host: 4.254.231.163
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1161127916 4.254.231.163 (Tue, 17 Oct
2006 16:31:56 PDT)
NNTP-Posting-Date: Tue, 17 Oct 2006 16:31:56 PDT
Xref: g2news2.google.com uk.radio.amateur:55211 rec.radio.amateur.misc:24223
rec.radio.amateur.homebrew:7456 rec.radio.amateur.antenna:20069
rec.radio.amateur.policy:50251

"david" <david_perry@btconnect.com> wrote in
news:lJOdnYUUm9AnBanYnZ2dnUVZ8tCdnZ2d@bt.com:

> Someday, when we all pay for our posts (it's
>> coming, believe me)
>
> That'll be the day when ham radio comes back to life then. Paying for
> posts? That's paying for toilet paper on a wipe by wipe basis.

>
> D

Unfortunately, the Dumb-It-Down no-code ham radio crowd are too lazy to
wipe. They'll still hang around and the rest of us will have to smell
the stink.

SC

From 5217759870187382339
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Thread: 1109af,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!meganewsservers.com!
feeder2.on.meganewsservers.com!nntp-server.pubsub.com!lon-
transit.news.telstra.net!lon-in.news.telstra.net!news.telstra.net!news-
server.bigpond.net.au!53ab2750!not-for-mail
From: matt vk3zmw <nospam@nospam.ever>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Check the SWR on your HF antenna's.
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
In-Reply-To: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 0640-4, 06/10/2006), Outbound message
X-Antivirus-Status: Clean
Lines: 10
Message-ID: <8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
Date: Sat, 07 Oct 2006 06:23:00 GMT
NNTP-Posting-Host: 60.224.176.20
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1160202180 60.224.176.20 (Sat, 07 Oct 2006
16:23:00 EST)
NNTP-Posting-Date: Sat, 07 Oct 2006 16:23:00 EST
Organization: BigPond Internet Services
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5836
rec.radio.amateur.homebrew:7306 rec.radio.amateur.policy:49038 rec.radio.swap:8328

Slow Code wrote:
> Then make a couple CW contacts this weekend.
>
> You'll get up from your rig afterwards and feel pretty good about being a
> ham again.

>
> SC

Actually, just make a couple of contacts in any mode. Too many stations
sit unused week after week, month after month...

From 2120475492740235808
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!
feeder2.news.jippii.net!reader1.news.jippii.net!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VLF from the amp
Message-ID: <gakei2toqbk7qn8a8tp7ovdifooe31ektn@4ax.com>
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
<e7fqh2hvvmum7rigqhl3g56pdbd0kt8mep@4ax.com>
<pan.2006.09.29.21.12.09.921875@googlemail.com>
<12hrdl9f7ofja28@corp.supernews.com> <pi4sh2l4tar5e46m0872nhadvfcsuif3mg@4ax.com>
<452678b0$0$30584$9b4e6d93@newsspool4.arcor-online.net>
<dt4di25hil16nh3fmqduga4v0cc4q218dc@4ax.com>
<4526be69$0$13102$9b4e6d93@newsspool2.arcor-online.net>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 42
Date: Sat, 07 Oct 2006 11:23:05 +0300
NNTP-Posting-Host: 195.197.6.75
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.jippii.net 1160209177 195.197.6.75 (Sat, 07 Oct 2006
11:19:37 EEST)
NNTP-Posting-Date: Sat, 07 Oct 2006 11:19:37 EEST
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:7307

On Fri, 6 Oct 2006 22:27:47 +0200, "Henry Kiefer" <otc_friend@gmx.net>
wrote:

>Sure Paul. It is as a transmitting antenna for short-range only.

So we are talking about a near field system.

In the far field the ratio between the electric (E) and magnetic (H)
field is constant and is 120 pi or 377 ohms. This field is inversely
proportional to the square of distance since both the electric and
magnetic field is inversely proportional to the distance.

However, very close to the transmitting antenna (near field) the E/H
ratio is no longer 377 ohms. The magnetic field is inversely
proportional to the square of distance and the electric field

inversely proportional to the cube of distance.

There is much debate were the near field ends and were the far field begins. For simple antennas, the distance is less than one wavelength, the value lambda / (2*pi) often appears in literature. For large parabolic reflectors or lasers, the far field begins at hundreds or thousands of wavelengths.

Near field communication systems have been used for decades e.g. in induction loop systems for the hearing impaired, in which a magnetic loop is surrounding the room and audio frequencies are fed into the loop. The headset will pick up the field, amplify the signal and feed it to the ear of the person with reduced hearing. Of course, such systems are now more or less useless due to the stray magnetic fields caused by various inverters.

>Do you know
>about:
>http://www.ancom.no/
>products? They claim their ferrite rod styled antenna works as good
>transmitter. See their patent application.

These seem to be near field devices even at MF, where they seem to operate.

Paul OH3LWR

From -8265491020803920091
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Thread: 1109af,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!logbridge.uoregon.edu!arclight.uoregon.edu!news.netins.net!not-for-mail
From: john <john@nospam.net>
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: Check the SWR on your HF antenna's.
Date: Sat, 07 Oct 2006 05:49:49 -0500
Organization: netINS InterNetNews site
Lines: 18
Message-ID: <ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net> <8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
NNTP-Posting-Host: truro-01-006.wireless.l2speed.net
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

```
X-Trace: news.netins.net 1160218190 8822 67.55.159.6 (7 Oct 2006 10:49:50 GMT)
X-Complaints-To: abuse@netins.net
NNTP-Posting-Date: Sat, 7 Oct 2006 10:49:50 +0000 (UTC)
X-Newsreader: Forte Agent 1.8/32.548
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5837
rec.radio.amateur.homebrew:7308 rec.radio.amateur.policy:49043 rec.radio.swap:8330

I feel good that Slow Code doesn't have a ham license and is poisoning
the ham bands like he does the newsgroups. What's your call Slow Code?


On Sat, 07 Oct 2006 06:23:00 GMT, matt vk3zmw <nospam@nospam.ever>
wrote:

>Slow Code wrote:
>> Then make a couple CW contacts this weekend.
>>
>> You'll get up from your rig afterwards and feel pretty good about being a
>> ham again.
>>
>> SC
>
>Actually, just make a couple of contacts in any mode. Too many stations
>sit unused week after week, month after month...




From -321653574662348147
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: my.mail@no.spam (Slow Code)
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: Check the SWR on your HF antenna's.
Date: Sat, 7 Oct 2006 13:23:01 +0000 (UTC)
Organization: None
Lines: 26
Message-ID: <BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
NNTP-Posting-Host: 6gjYeypIvv606U8uBBhJ1w.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!newsfeed.icl.net!
newsfeed.fjserv.net!newsfeed.freenet.de!newsfeed.x-privat.org!aioe.org!
emma.aioe.org!aioe.org!my.mail
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5840
rec.radio.amateur.homebrew:7309 rec.radio.amateur.policy:49049
```

```
On Sat, 07 Oct 2006 05:49:49 -0500, john <john@nospam.net> wrote:
> I feel good that Slow Code doesn't have a ham license and is poisoning
> the ham bands like he does the newsgroups. What's your call Slow Code?
>
>
> On Sat, 07 Oct 2006 06:23:00 GMT, matt vk3zmw <nospam@nospam.ever>
> wrote:
>
> >Slow Code wrote:
> >> Then make a couple CW contacts this weekend.
> >>
> >> You'll get up from your rig afterwards and feel pretty good about being a
> >> ham again.
> >>
> >> SC
> >
> >Actually, just make a couple of contacts in any mode. Too many stations
> >sit unused week after week, month after month...
>

Top posting is a sign of inexperience.  You are probably a newbie on the
net.  Go to news.groups and read the FAQ on Usenet etiquette first.  After
that, come back here and post properly and I will give you my call.

SC



From -948270586284492458
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!
not-for-mail
NNTP-Posting-Date: Sat, 07 Oct 2006 09:31:11 -0500
Date: Sat, 07 Oct 2006 10:28:10 -0400
From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.0.6) Gecko/20060730
SeaMonkey/1.0.4
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: Check the SWR on your HF antenna's.
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
In-Reply-To: <BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
```

Content-Transfer-Encoding: 7bit
Message-ID: <xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net>
Lines: 34
NNTP-Posting-Host: 72.83.120.187
X-Trace: sv3-2YYkKyp9yqqnke4MRGVj33s1hO7QyyggPltR/
CbVg1Ek4ePZfT4qbWyi1ErNGJQ7fVStl6fuVDmGeou!1spSrYHPYY9Sd9qBTeoh6a/
Dw7H2rOfvneTwp3AWBlHmSygUGRC8Qt6Acu3haDQRx9+ByaPxfE9z!ZH1lvBqYifyn
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5842 rec.radio.amateur.homebrew:7310 rec.radio.amateur.policy:49055

Slow Code wrote:

>>>> SC
>>> Actually, just make a couple of contacts in any mode. Too many stations
>>> sit unused week after week, month after month...
>
> Top posting is a sign of inexperience. You are probably a newbie on the
> net. Go to news.groups and read the FAQ on Usenet etiquette first. After
> that, come back here and post properly and I will give you my call.

Actually top posting is a sign of *experience*. Us guys that were on the internet back when it was run by darpa always top posted. That was because we were running very slow lines, typically 110 to 300 baud, and it was desirable not to have to wait through the down load of a dozen copies of the same quoted material as we progressed through a thread. Bottom posting forced everyone on the newsgroup to fully download every article waisting tons of our very limited bandwidth and time. Top posting allowed you to get right to the meat of the article in the first few seconds of downloading... and it allowed you the option of continuing to footnotes if you really needed to.

You newbies have dozens of ways of trying to impose your will on the group. Most of your so called rules of etiquette are simply you following the bottom posting convention that was set up as a default on internet explorer. Rn, trn, tin, and other premicrosloth news readers defaulted to top posting.

You are so spoiled by high bandwidth and large amounts of memory that you think that a posting arrives at your machine in its full length instantly.. and for all practical purposes, it does.

I can go either way. I do, however, get very tired of having to scroll through the same old quoted crap at the top of post after post... just to get to the bottom
and find the highly informative, but typical, "me too" tacked onto the end.

-Chuck

```
From -6127097189200562058
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news2.google.com!news.germany.com!
news.newsland.it!aioe.org!emma.aioe.org!aioe.org!my.mail
From: my.mail@no.spam (Slow Code)
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: Check the SWR on your HF antenna's.
Date: Sat, 7 Oct 2006 15:28:25 +0000 (UTC)
Organization: None
Lines: 37
Message-ID: <BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
<xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net>
NNTP-Posting-Host: 5FF3VaSFHJtKZ/IiIV9lqw.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5843
rec.radio.amateur.homebrew:7311 rec.radio.amateur.policy:49059
```

On Sat, 07 Oct 2006 10:28:10 -0400, Chuck Harris wrote:

```
> Slow Code wrote:
>
> >>>> SC
> >>> Actually, just make a couple of contacts in any mode. Too many stations
> >>> sit unused week after week, month after month...
> >
> > Top posting is a sign of inexperience.  You are probably a newbie on the
> > net.  Go to news.groups and read the FAQ on Usenet etiquette first.  After
> > that, come back here and post properly and I will give you my call.
>
> Actually top posting is a sign of *experience*.  Us guys that were on the
> internet back when it was run by darpa always top posted.  That was because
> we were running very slow lines, typically 110 to 300 baud, and
> it was desirable
> not to have to wait through the down load of a dozen copies of the same quoted
```

Bzzzzzzzzzzzzzzzzzzzzzzzzzzt!

My bullshit detector just went off real loud. Here is an authoritative
statement about ARPANET from one of Comer's books:

"Initially, most of the leased data circuits in the ARPANET operated
at 56 Kbps, a speed considered extremely fast in 1968 but slow by
current standards." -- Douglas E. Comer, Internetworking with TCP/IP,

Volume One, 3rd Edition, Prentice-Hall (1995), page 57.

300 baud, my ass! You should have been on a time sharing machine connected directly to the 56K ARPANET, so don't bother to backpedal by claiming dialup speeds. (And of course Usenet didn't even begin until the 80's, shortly after ARPANET had ended.)

Don't try to bullshit someone who has forgotten more about the subject than you have yet to learn.

SC

```
From 6560323459059089021
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!
not-for-mail
NNTP-Posting-Date: Sat, 07 Oct 2006 11:43:13 -0500
Date: Sat, 07 Oct 2006 12:40:08 -0400
From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.0.6) Gecko/20060730
SeaMonkey/1.0.4
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: Check the SWR on your HF antenna's.
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
<xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net>
<BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net>
In-Reply-To: <BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <-r2dnT-L-9e8RLrYnZ2dnUVZ_oudnZ2d@rcn.net>
Lines: 61
NNTP-Posting-Host: 72.83.120.187
X-Trace: sv3-rY2coEyrYB6xZqChkneaR4S1kShVFQyyUOeUnhx9XH/
gfHwXOWwrseujLqU5vsUmH9rI2yv7UbXOfc3!
kopG2EAtu4wBZdG2LMNnECk1+75pWMH6ow5ZiKFhoE2NCujSN8H8uTNsdT9CW8wNKLpt2+YHegR7!
FtZJdigkTRbe
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
```

Xref: g2news2.google.com rec.radio.amateur.boatanchors:5844
rec.radio.amateur.homebrew:7312 rec.radio.amateur.policy:49064

Slow Code wrote:
> On Sat, 07 Oct 2006 10:28:10 -0400, Chuck Harris wrote:

>> Actually top posting is a sign of *experience*. Us guys that were on the
>> internet back when it was run by darpa always top posted. That was because
>> we were running very slow lines, typically 110 to 300 baud, and
>> it was desirable
>> not to have to wait through the down load of a dozen copies of the same quoted
>
> Bzzzzzzzzzzzzzzzzzzzzzzzzzzt!
>
> My bullshit detector just went off real loud. Here is an authoritative
> statement about ARPANET from one of Comer's books:
>
> "Initially, most of the leased data circuits in the ARPANET operated
> at 56 Kbps, a speed considered extremely fast in 1968 but slow by
> current standards." -- Douglas E. Comer, Internetworking with TCP/IP,
> Volume One, 3rd Edition, Prentice-Hall (1995), page 57.

Yep, those were the *backbones* of ARPANET. We had *ONE* at the University
of Maryland back in the 1970s. That leased line cost thousands of dollars
per month, and was paid for by darpa. Compare that to the backbones of today
which are measured in terrabits per second. These 56K backbones were
connected to mainframe computers that acted as concentrators, and provided
connections to other mainframes, and to thousands of users on timesharing
systems. Yes, I have that right, *thousands* of users shared a single 56K
backbone.

Those users that were local to the concentrator (eg, in the computer room)
were connected to the mainframe by various speed RS-232 lines, but those who
were on remote dial up connections were connected by good old bell 103,
110 to 300 baud modems.

> 300 baud, my ass! You should have been on a time sharing machine
> connected directly to the 56K ARPANET,

Yep, we were on timesharing machines, Univac 1106's, 1108's, and 1140's,
and as I said, thousands of users shared a single 56K leased line into
Darpanet. Do the math, if you can't, I'll help you:

56K/1000 = 56 bps.

If there were *only* 1000 users vying for the net at the same time, they
could each pump 56bps into the backbone. But there were many many more
than that, and they weren't always needing the net all of the time.
(hence the name concentrator)

  so don't bother to backpedal by

I'm sorry, I don't backpedal for idiots. I don't brake for them either.

> claiming dialup speeds. (And of course Usenet didn't even begin until
> the 80's, shortly after ARPANET had ended.)
>
> Don't try to bullshit someone who has forgotten more about the subject
> than you have yet to learn.

Riiiight! Just because you can look up darpa on a wiki somewhere, doesn't
mean you can understand what you have read.

-Chuck

From -768139240869612450
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: stop you welching sc
Date: Sat, 07 Oct 2006 13:42:34 -0400
Message-ID: <inpfi2hnjhfko3haaafbqjojj1v3sgpmbo@4ax.com>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 5
NNTP-Posting-Date: 07 Oct 2006 16:47:08 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5847
rec.radio.amateur.homebrew:7313 rec.radio.amateur.policy:49070

On Sat, 7 Oct 2006 13:23:01 +0000 (UTC), my.mail@no.spam (Slow Code)
wrote:

stop you welching sc
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -3559674193646182572

```
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: stop you welching sc
Date: Sat, 07 Oct 2006 13:42:57 -0400
Message-ID: <oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
<xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net>
<BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 5
NNTP-Posting-Date: 07 Oct 2006 16:47:31 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5848
rec.radio.amateur.homebrew:7314 rec.radio.amateur.policy:49071

On Sat, 7 Oct 2006 15:28:25 +0000 (UTC), my.mail@no.spam (Slow Code)
wrote:

stop you welching sc
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From 5742711888320734837
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 07 Oct 2006 13:16:23 -0500
User-Agent: Microsoft-Entourage/10.0.0.1309
Date: Sat, 07 Oct 2006 11:16:22 -0700
Subject: Re: stop you welching sc
```

```
From: Don Bowey <dbowey@comcast.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Message-ID: <C14D3D06.46962%dbowey@comcast.net>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
<xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net>
<BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net>
<oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
Lines: 12
NNTP-Posting-Host: 24.20.154.195
X-Trace: sv3-lmbu/
Virl+BuMyvDdGdyk2qOe70zHWSp8gxOfoXv85fHxH06F1E58dhcfe+xZTzctf9WHsf8b6/sAu1!OtsJ/
91BH8vTN7DZhF5ah8orANFwuy5b7f2KYKNGxJNh0HR7cYbQfXoGMzG3Oj16hOs5nUd/
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5849
rec.radio.amateur.homebrew:7315 rec.radio.amateur.policy:49089

On 10/7/06 10:42 AM, in article oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com,
"Mark@kb9rqz.net" <Mark@kb9rqz.net> wrote:

> On Sat, 7 Oct 2006 15:28:25 +0000 (UTC), my.mail@no.spam (Slow Code)
> wrote:
>
> stop you welching sc
> http://kb9rqz.blogspot.com/

I reported your abuse to this and other boards, to your service provider.
Hopefully they will shut you down.




From 5230786413655092793
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: <Mark@kb9rqz.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
```

References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
<xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net>
<BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net>
<oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com> <C14D3D06.46962%dbowey@comcast.net>
Subject: Re: stop you welching sc
Date: Sat, 7 Oct 2006 14:22:52 -0400
Organization: Blumpkin Specialist
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Lines: 29
Message-ID: <4527e37e$0$19726$88260bb3@free.teranews.com>
NNTP-Posting-Date: 07 Oct 2006 17:27:26 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5850
rec.radio.amateur.homebrew:7316 rec.radio.amateur.policy:49090

"Don Bowey" <dbowey@comcast.net> wrote in message
news:C14D3D06.46962%dbowey@comcast.net...
> On 10/7/06 10:42 AM, in article
> oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com,
> "Mark@kb9rqz.net" <Mark@kb9rqz.net> wrote:
>
>> On Sat, 7 Oct 2006 15:28:25 +0000 (UTC), my.mail@no.spam (Slow Code)
>> wrote:
>>
>> stop you welching sc
>> http://kb9rqz.blogspot.com/
>
> I reported your abuse to this and other boards, to your service provider.
> Hopefully they will shut you down.

you could just admit to making a mistake but then you can't admit to
error and it would still be a lie since that shit of yours I have
encountered
is you writing on RRAP and other locations

as inded you have that with your gay bashing means you need help you asked
for it robeson

http://www.marksspamblog.blogspot.com/

--

```
Posted via a free Usenet account from http://www.teranews.com



From 5481878118064744255
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: stop you welching sc
Date: Sat, 07 Oct 2006 15:00:55 -0400
Message-ID: <laufi25pmi43fehhgs5qt6l60n4nsb382t@4ax.com>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
<xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net>
<BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net>
<oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com> <C14D3D06.46962%dbowey@comcast.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 16
NNTP-Posting-Date: 07 Oct 2006 18:05:30 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5852
rec.radio.amateur.homebrew:7317 rec.radio.amateur.policy:49091

On Sat, 07 Oct 2006 11:16:22 -0700, Don Bowey <dbowey@comcast.net>
wrote:

>On 10/7/06 10:42 AM, in article oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com,
>"Mark@kb9rqz.net" <Mark@kb9rqz.net> wrote:
>
>> On Sat, 7 Oct 2006 15:28:25 +0000 (UTC), my.mail@no.spam (Slow Code)
>> wrote:
>>
>> stop you welching sc
>> http://kb9rqz.blogspot.com/
>
>I reported your abuse to this and other boards, to your service provider.
>Hopefully they will shut you down.
what abuse are you refering to?
http://kb9rqz.blogspot.com/

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```

```
Posted via a free Usenet account from http://www.teranews.com



From 6589073498442198886
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: stop you welching sc
Date: Sat, 07 Oct 2006 15:01:19 -0400
Message-ID: <gbufi25j8p456ebavadg3uv32t0ajrb0ef@4ax.com>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
<xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net>
<BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net>
<oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com> <C14D3D06.46962%dbowey@comcast.net>
<4527e37e$0$19726$88260bb3@free.teranews.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 4
NNTP-Posting-Date: 07 Oct 2006 18:05:54 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5853
rec.radio.amateur.homebrew:7318 rec.radio.amateur.policy:49092

On Sat, 7 Oct 2006 14:22:52 -0400, <Mark@kb9rqz.net> wrote:

more id theft it is crime you know
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From 8919072767038807949
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Thread: 1109af,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Check the SWR on your HF antenna's.
From: Slow Code <my.mail@no.spam>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 9
Message-ID: <LqVVg.11324$UG4.1538@newsread2.news.pas.earthlink.net>
Date: Sat, 07 Oct 2006 21:59:07 GMT
NNTP-Posting-Host: 4.254.231.187
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1160258347 4.254.231.187 (Sat, 07 Oct
2006 14:59:07 PDT)
NNTP-Posting-Date: Sat, 07 Oct 2006 14:59:07 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5855
rec.radio.amateur.homebrew:7319 rec.radio.amateur.policy:49106 rec.radio.swap:8347

john <john@nospam.net> wrote in
news:ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com:

> I feel good that Slow Code doesn't have a ham license and is poisoning
> the ham bands like he does the newsgroups. What's your call Slow Code?


KB9RQZ, and I'm retarded.




From -8155322436644997409
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-
online.de!newsfeed.freenet.de!news.newsland.it!aioe.org!emma.aioe.org!aioe.org!
my.mail
From: my.mail@no.spam (Slow Code)
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: Check the SWR on your HF antenna's.
Date: Sat, 7 Oct 2006 22:37:47 +0000 (UTC)
Organization: None
Lines: 79
Message-ID: <Bifhnn.5952$Y24.5826@newsread4.news.pas.earthlink.net>
```

```
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
<xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net>
<BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net> <-r2dnT-
L-9e8RLrYnZ2dnUVZ_oudnZ2d@rcn.net>
NNTP-Posting-Host: 3pxK3BGTFIHrfitFSxekNg.user.aioe.org
X-Complaints-To: abuse@aioe.org
User-Agent: Xnews/5.04.25
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5857
rec.radio.amateur.homebrew:7320 rec.radio.amateur.policy:49124


On Sat, 07 Oct 2006 12:40:08 -0400, Chuck Harris wrote:
> Slow Code wrote:
> > On Sat, 07 Oct 2006 10:28:10 -0400, Chuck Harris wrote:
>
> >> Actually top posting is a sign of *experience*.  Us guys that were on the
> >> internet back when it was run by darpa always top posted.  That was because
> >> we were running very slow lines, typically 110 to 300 baud, and
> >> it was desirable
> >> not to have to wait through the down load of a dozen copies of the
> same quoted
> >
> > Bzzzzzzzzzzzzzzzzzzzzzzzzzzt!
> >
> > My bullshit detector just went off real loud.  Here is an authoritative
> > statement about ARPANET from one of Comer's books:
> >
> > "Initially, most of the leased data circuits in the ARPANET operated
> > at 56 Kbps, a speed considered extremely fast in 1968 but slow by
> > current standards." -- Douglas E. Comer, Internetworking with TCP/IP,
> > Volume One, 3rd Edition, Prentice-Hall (1995), page 57.
>
> Yep, those were the *backbones* of ARPANET.  We had *ONE* at the University
> of Maryland back in the 1970s.  That leased line cost thousands of dollars
> per month, and was paid for by darpa.  Compare that to the backbones of today
> which are measured in terrabits per second.  These 56K backbones were
> connected to mainframe computers that acted as concentrators, and provided
> connections to other mainframes, and to thousands of users on timesharing
> systems.  Yes, I have that right, *thousands* of users shared a single 56K
> backbone.
>
> Those users that were local to the concentrator (eg, in the computer room)
> were connected to the mainframe by various speed RS-232 lines, but those who
> were on remote dial up connections were connected by good old bell 103,
> 110 to 300 baud modems.
>
> > 300 baud, my ass!  You should have been on a time sharing machine
> > connected directly to the 56K ARPANET,
>
> Yep, we were on timesharing machines, Univac 1106's, 1108's, and 1140's,
```

> and as I said, thousands of users shared a single 56K leased line into
> Darpanet. Do the math, if you can't, I'll help you:
>
> 56K/1000 = 56 bps.

So you think that 1000 users at your location were always using ARPANET simultaneously? Please don't tell me that someone gave you an engineering degree, because you obviously didn't understand the course work.

> If there were *only* 1000 users vying for the net at the same time, they
> could each pump 56bps into the backbone. But there were many many more
> than that, and they weren't always needing the net all of the time.
> (hence the name concentrator)

> > Don't try to bullshit someone who has forgotten more about the subject
> > than you have yet to learn.
>
> Riiiight! Just because you can look up darpa on a wiki somewhere, doesn't
> mean you can understand what you have read.

Comer's books on TCP/IP are standards, and they don't involve a wiki. They happen to be in my library of reference textbooks, and they happen to be standard references kept in all university libraries.

The claim about slow speeds on ARPANET and Usenet is quite stupid. ARPANET and Usenet did not exist at the same time. ARPANET didn't use TCP/IP protocol, and it gave way to what is now called the Internet when TCP/IP became the standard packet delivery protocol. Shortly after that, the message posting system called Usenet was formalized to run on the Internet and on several other message delivery systems (such as UUCP). So your reference to ARPANET is simply irrelevant. ARPANET and Usenet never coexisted, making the claims about 300 bps and other speed limitations total BS intended to impress the ignorant.

Enough said. Conversation ended. You don't seem to be worth any followup messages until you do some additional reading.

SC

From -5146892523412896581
X-Google-Thread: fc2a5,348639e5932576f7,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-mail
From: "rextrunt@yahoo.com" <rextrunt@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: QQV06-40A
Date: 7 Oct 2006 15:39:52 -0700
Organization: http://groups.google.com
Lines: 4

Message-ID: <1160260792.541888.147840@m73g2000cwd.googlegroups.com>
NNTP-Posting-Host: 80.4.224.7
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160260798 12239 127.0.0.1 (7 Oct 2006 22:39:58 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 7 Oct 2006 22:39:58 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.10)
Gecko/20050716 Firefox/1.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=80.4.224.7;
   posting-account=z65IwQ0AAADHe_bLMxl2U-LxNi16oAM0
Xref: g2news2.google.com rec.radio.amateur.homebrew:7321

Anybody ever tried connecting both sections of the valve together and
using this device on HF instead of VHF? Its cheap and is good for 100W
max output with 1kV anode potential.

From -8947240191053383347
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Thread: 1109af,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news.alt.net!usenet
From: Lloyd Morgan <lloyd@no.spammmmm>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Check the SWR on your HF antenna's.
Date: Sat, 7 Oct 2006 22:59:20 +0000 (UTC)
Organization: http://www.TarrNews.net - FREE NNTP Access
Lines: 11
Message-ID: <11324$UG43.2458F8789@tarrnews.net>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<LqVVg.11324$UG4.1538@newsread2.news.pas.earthlink.net>
NNTP-Posting-Host: 127.0.0.1
User-Agent: Xnews/5.04.89
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5859
rec.radio.amateur.homebrew:7322 rec.radio.amateur.policy:49127 rec.radio.swap:8354

On Sat, 07 Oct 2006 21:59:07 GMT, Slow Code <my.mail@no.spam> wrote:
> john <john@nospam.net> wrote in
> news:ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com:
>
> > I feel good that Slow Code doesn't have a ham license and is poisoning
> > the ham bands like he does the newsgroups. What's your call Slow Code?

>
>
> KB9RQZ, and I'm retarded.

You are K4YZ, and Mark Morgan knows it, Steve.

```
From -4463691090781039330
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Thread: 1109af,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns14feed!worldnet.att.net!128.230.129.106!news.maxwell.syr.edu!
nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Check the SWR on your HF antenna's.
Date: Sat, 07 Oct 2006 19:51:56 -0400
Message-ID: <3cfgi2la50756diq6o85lq0tk4cf4pv425@4ax.com>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<LqVVg.11324$UG4.1538@newsread2.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 14
NNTP-Posting-Date: 07 Oct 2006 22:56:30 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5860
rec.radio.amateur.homebrew:7323 rec.radio.amateur.policy:49141 rec.radio.swap:8363
```

On Sat, 07 Oct 2006 21:59:07 GMT, Slow Code <my.mail@no.spam> wrote:

>john <john@nospam.net> wrote in
>news:ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com:
>
>> I feel good that Slow Code doesn't have a ham license and is poisoning
>> the ham bands like he does the newsgroups. What's your call Slow Code?
>
>
>KB9RQZ, and I'm retarded.

Id theft is crime Slow Code

as is fraud you are both
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

```
From -4872243084195929530
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Thread: 1109af,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!news.glorb.com!
nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Check the SWR on your HF antenna's.
Date: Sat, 07 Oct 2006 19:52:31 -0400
Message-ID: <4dfgi219dd9dk9mdfj7ure9g0opg5d5cg5@4ax.com>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<LqVVg.11324$UG4.1538@newsread2.news.pas.earthlink.net>
<11324$UG43.2458F8789@tarrnews.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 16
NNTP-Posting-Date: 07 Oct 2006 22:57:05 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5861
rec.radio.amateur.homebrew:7324 rec.radio.amateur.policy:49143 rec.radio.swap:8364
```

On Sat, 7 Oct 2006 22:59:20 +0000 (UTC), Lloyd Morgan
<lloyd@no.spammmmm> wrote:

>On Sat, 07 Oct 2006 21:59:07 GMT, Slow Code <my.mail@no.spam> wrote:
>> john <john@nospam.net> wrote in
>> news:ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com:
>>
>> > I feel good that Slow Code doesn't have a ham license and is poisoning
>> > the ham bands like he does the newsgroups. What's your call Slow Code?
>>
>>
>> KB9RQZ, and I'm retarded.
>
>You are K4YZ, and Mark Morgan knows it, Steve.

that is the most likely call but it is onl;y high probabilty
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -3604928023600187719
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: Check the SWR on your HF antenna's.
Date: 7 Oct 2006 17:29:52 -0700
Organization: http://groups.google.com
Lines: 90
Message-ID: <1160267392.851652.48400@e3g2000cwe.googlegroups.com>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
   <8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
   <ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
   <BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
   <xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net>
   <BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net>
   <-r2dnT-L-9e8RLrYnZ2dnUVZ_oudnZ2d@rcn.net>
NNTP-Posting-Host: 207.200.116.70
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160267397 2146 127.0.0.1 (8 Oct 2006 00:29:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 8 Oct 2006 00:29:57 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-ntc-ta01.proxy.aol.com[CFC87005] (Prism/1.1.4), HTTP/1.1 cache-ntc-ab06.proxy.aol.com[CFC87446] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=207.200.116.70;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5862
rec.radio.amateur.homebrew:7325 rec.radio.amateur.policy:49153

From: Chuck Harris on Sat, Oct 7 2006 12:40 pm

   Thank you for the explanation. As a user on a corporate system
   (RCA Corporation, EASD, Van Nuys, CA) '73 to '75, and with a
   Tym-Share account (the time-sharing computer company), I concur.

>Slow Code wrote:

>> On Sat, 07 Oct 2006 10:28:10 -0400, Chuck Harris wrote:
>
>>> Actually top posting is a sign of *experience*. Us guys that were on the
>>> internet back when it was run by darpa always top posted. That was because
>>> we were running very slow lines, typically 110 to 300 baud, and
>>> it was desirable
>>> not to have to wait through the down load of a dozen copies of the same quoted
>
>> Bzzzzzzzzzzzzzzzzzzzzzzzzzzt!
>
>> My bullshit detector just went off real loud. Here is an authoritative
>> statement about ARPANET from one of Comer's books:

   [Blowcode's ears must be ringing all the time from his
   "bullshit detector" going off on his own postings... :-)]

>> "Initially, most of the leased data circuits in the ARPANET operated
>> at 56 Kbps, a speed considered extremely fast in 1968 but slow by
>> current standards." -- Douglas E. Comer, Internetworking with TCP/IP,
>> Volume One, 3rd Edition, Prentice-Hall (1995), page 57.
>
>Yep, those were the *backbones* of ARPANET. We had *ONE* at the University
>of Maryland back in the 1970s. That leased line cost thousands of dollars
>per month, and was paid for by darpa. Compare that to the backbones of today
>which are measured in terrabits per second. These 56K backbones were
>connected to mainframe computers that acted as concentrators, and provided
>connections to other mainframes, and to thousands of users on timesharing
>systems. Yes, I have that right, *thousands* of users shared a single 56K
>backbone.
>
>Those users that were local to the concentrator (eg, in the computer room)
>were connected to the mainframe by various speed RS-232 lines, but those who
>were on remote dial up connections were connected by good old bell 103,
>110 to 300 baud modems.

   Heh heh heh...the "high tech" of its time, a mere 30+ years
   ago. "Speedy" Teletype Model 33s (?) and "high speed" 300
   baud video terminals (with local memory to print out screens
   on Teletypes) where I was using it. :-)

>> 300 baud, my ass! You should have been on a time sharing machine
>> connected directly to the 56K ARPANET,
>
>Yep, we were on timesharing machines, Univac 1106's, 1108's, and 1140's,
>and as I said, thousands of users shared a single 56K leased line into
>Darpanet. Do the math, if you can't, I'll help you:
>
>56K/1000 = 56 bps.
>
>If there were *only* 1000 users vying for the net at the same time, they
>could each pump 56bps into the backbone. But there were many many more
>than that, and they weren't always needing the net all of the time.
>(hence the name concentrator)

"Concentrators" still exist but in a vastly different form,
configuration, and specifications. As a personal computer
hobbyist since '76 I've not delved into them (no need to for
personal dial-up connections) but know many who are; they
have supplied some interesting literature on them as well as
in-person explanations.

>> so don't bother to backpedal by
>
>I'm sorry, I don't backpedal for idiots. I don't brake for them either.

Blowcode is the road kill of this newsgroup...

>> claiming dialup speeds. (And of course Usenet didn't even begin until
>> the 80's, shortly after ARPANET had ended.)
>
>> Don't try to bullshit someone who has forgotten more about the subject
>> than you have yet to learn.
>
>Riiiight! Just because you can look up darpa on a wiki somewhere, doesn't
>mean you can understand what you have read.

HAAAAAA... :-)

Blowcode has never stated his amateur license call. Perhaps
he has "forgotten" it? :-)

LenAnderson@ieee.org

From -6311022671420772198
X-Google-Thread: fc2a5,f077fffb1802d039,start
X-Google-Thread: fc8b1,f077fffb1802d039,start
X-Google-Thread: 108122,f077fffb1802d039,start
X-Google-Thread: 107ada,f077fffb1802d039,start
X-Google-Thread: 111d0a,f077fffb1802d039,start
X-Google-Attributes: gidfc2a5,gidfc8b1,gid108122,gid107ada,gid111d0a,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i3g2000cwc.googlegroups.com!not-for-mail
From: bill.meara@gmail.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.misc,sci.electronics.basics
Subject: SolderSmoke #34: Interview with Ashhar Farhan, BITX-20 designer
Date: 7 Oct 2006 23:09:52 -0700
Organization: http://groups.google.com
Lines: 58
Message-ID: <1160287792.089919.118830@i3g2000cwc.googlegroups.com>
NNTP-Posting-Host: 86.141.199.77
Mime-Version: 1.0

```
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160287796 17031 127.0.0.1 (8 Oct 2006 06:09:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 8 Oct 2006 06:09:56 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i3g2000cwc.googlegroups.com; posting-host=86.141.199.77;
   posting-account=7vRsuQwAAADlh58wGAIfEFYQRw36eW7d
Xref: g2news2.google.com rec.radio.amateur.homebrew:7326
rec.radio.amateur.boatanchors:5868 rec.radio.amateur.equipment:6596
rec.radio.amateur.misc:23789 sci.electronics.basics:26862
```

SolderSmoke!
A SHOW FOR ELECTRONICS HOMEBREWERS!

http://www.soldersmoke.com

Listen at: http://www.soldersmoke.com

SolderSmoke #34 (October 7, 2006) is now available on http://www.soldersmoke.com

Ashhar Farhan joined us from India for #34:

-- BITX-20 transceiver.
-- HB in India.
-- EMRFD.
-- W7ZOI influence.
-- Hans Summers.
-- Quadrature rigs.
-- DSB and PSK31.
-- Homebrew test gear.
-- The importance of measurement
-- Farhan's 'scope.
-- Homebrew heartaches.
-- Homebrew spirit.
-- Symmetry.

Tired of listening to Led Zepplin or NPR on your I-Pod?   Wouldn't you like to be able to carry with you the kinds of ham radio conversations that you listen to while in your radio shack?
Mike, KL7R, in Juneau, Alaska, and Bill, M0HBR, in London, England meet regularly on the ECHOLINK system to discuss their homebrew radio projects. We are making them available as PODCASTS.

RSS FEED: You can subscribe to the program, have them downloaded to your MP-3 player, and listen to them at your convenience. To subscribe, just cut and paste this URL into your I-poder (or similar)

software.
http://www.soldersmoke.com/soldersmoke.rss

If you don't have an MP3 player you can just go to the
site below and listen to the latest program (and
earlier editions) using the audio software on your
computer.

http://www.soldersmoke.com

All our programs are available here.

We hope you enjoy the program. Please send us
feedback.

73 from London
Bill M0HBR N2CQR CU2JL
http://www.gadgeteer.us

From -1810782337600750920
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Thread: 1109af,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.maxwell.syr.edu!news.netins.net!
not-for-mail
From: john <john@nospam.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Check the SWR on your HF antenna's.
Date: Sun, 08 Oct 2006 01:30:00 -0500
Organization: netINS InterNetNews site
Lines: 21
Message-ID: <il6hi2t4v4q63dalar3dbgrmiubql6olei@4ax.com>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<LqVVg.11324$UG4.1538@newsread2.news.pas.earthlink.net>
<11324$UG43.2458F8789@tarrnews.net>
NNTP-Posting-Host: truro-01-006.wireless.l2speed.net
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Trace: news.netins.net 1160289001 22509 67.55.159.6 (8 Oct 2006 06:30:01 GMT)
X-Complaints-To: abuse@netins.net
NNTP-Posting-Date: Sun, 8 Oct 2006 06:30:01 +0000 (UTC)
X-Newsreader: Forte Agent 1.8/32.548
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5869

```
rec.radio.amateur.homebrew:7327 rec.radio.amateur.policy:49173 rec.radio.swap:8377

Who is Slow Code? What is his call???
Does anybody know???




On Sat, 7 Oct 2006 22:59:20 +0000 (UTC), Lloyd Morgan
<lloyd@no.spammmmm> wrote:

>On Sat, 07 Oct 2006 21:59:07 GMT, Slow Code <my.mail@no.spam> wrote:
>> john <john@nospam.net> wrote in
>> news:ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com:
>>
>> > I feel good that Slow Code doesn't have a ham license and is poisoning
>> > the ham bands like he does the newsgroups. What's your call Slow Code?
>>
>>
>> KB9RQZ, and I'm retarded.
>
>You are K4YZ, and Mark Morgan knows it, Steve.




From 6446937812610382054
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Thread: 1109af,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Check the SWR on your HF antenna's.
Date: Sun, 08 Oct 2006 03:13:16 -0400
Message-ID: <059hi2pffi65pv9gqkqfo5tt16os9h4jgi@4ax.com>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<LqVVg.11324$UG4.1538@newsread2.news.pas.earthlink.net>
<11324$UG43.2458F8789@tarrnews.net> <il6hi2t4v4q63dalar3dbgrmiubql6olei@4ax.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 30
NNTP-Posting-Date: 08 Oct 2006 06:17:51 GMT
X-Complaints-To: abuse@teranews.com
```

```
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5870
rec.radio.amateur.homebrew:7328 rec.radio.amateur.policy:49174 rec.radio.swap:8378

On Sun, 08 Oct 2006 01:30:00 -0500, john <john@nospam.net> wrote:

>Who is Slow Code? What is his call???
>Does anybody know???

know his for certain? no i don't but it seems likely it is K4YZ or at
least one of his close freind from years past here on RRAP but Slow
code to much of a coward to say what his call is

amusing that K4YZ does not pund on him or Arf arf for being no calls
make it realy likely he knows who they raly are
>
>
>
>
>On Sat, 7 Oct 2006 22:59:20 +0000 (UTC), Lloyd Morgan
><lloyd@no.spammmmm> wrote:
>
>>On Sat, 07 Oct 2006 21:59:07 GMT, Slow Code <my.mail@no.spam> wrote:
>>> john <john@nospam.net> wrote in
>>> news:ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com:
>>>
>>> > I feel good that Slow Code doesn't have a ham license and is poisoning
>>> > the ham bands like he does the newsgroups. What's your call Slow Code?
>>>
>>>
>>> KB9RQZ, and I'm retarded.
>>
>>You are K4YZ, and Mark Morgan knows it, Steve.
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -4106073041365603647
X-Google-Thread: fc2a5,348639e5932576f7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 08 Oct 2006 02:17:29 -0500
Message-ID: <JixRHeC9OKKFFAsN@ifwtech.co.uk>
Date: Sun, 8 Oct 2006 08:07:41 +0100
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: QQV06-40A
```

References: <1160260792.541888.147840@m73g2000cwd.googlegroups.com>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<NPwkz3KBO5Mk2EKkAF7HHMZaqY>)
Lines: 22
NNTP-Posting-Host: 91.84.50.89
X-Trace: sv3-xF7fCPrupM5uOuSsU/
pgLQh+c6eK3JqGD0g9pjyM4ygZdoQP8CtJtC9KsdH5PIcZScVoCv/JMG54NPm!
S5my9PO6wn3qqWeduK3GisDTXHU/cKlhPLuB/QHil3V6F5GnwKieDv61MnkoT1AsdNKaQBk=
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7329

rextrunt@yahoo.com wrote:
>Anybody ever tried connecting both sections of the valve together and
>using this device on HF instead of VHF?

Not a good idea. This dual tetrode is internally neutralized for push-pull operation (the little crossover "twigs" above the anodes) but in a parallel connection that same capacitance will appear as unwanted anode-grid feedback.

> Its cheap and is good for 100W
>max output with 1kV anode potential.
>
The QQV06-40A is not capable of a clean 100W output on SSB! Many have tried over the years, and all have either failed or become extremely unpopular on the air.

If you want higher power at low cost, go for a GI-7B triode.

--
73 from Ian GM3SEK 'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From -4784118818099369518
X-Google-Thread: fc2a5,d713c96b5c43a7a7,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-mail
From: "mjsystems" <madgadget05@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: bad wind's bust your "twig"!!!! Help is here :-0
Date: 8 Oct 2006 02:02:54 -0700
Organization: http://groups.google.com

```
Lines: 29
Message-ID: <1160298174.371241.180050@m73g2000cwd.googlegroups.com>
NNTP-Posting-Host: 84.9.203.23
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1160298180 7919 127.0.0.1 (8 Oct 2006 09:03:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 8 Oct 2006 09:03:00 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50215; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=84.9.203.23;
   posting-account=0gjX0w0AAADorEf0CUQbT6ONWgwNMT4k
Xref: g2news2.google.com rec.radio.amateur.homebrew:7330
```

For a quickie CB antenna, a vertical dipole (1/2) wave can be made right from the coax itself You take your coax and very carefully, without nicking the braided shield, strip 102 inches of the outer insulation jacket off one end. After removing the outer jacket, start bunching the shield down the coax from the end. Now, where the outer jacket and the shield meet, separate the braided shield enough to get the inner conductor out through the hole in the braid. Pull all of the inner conductor through and stretch it and the braid out. Be careful not to skin any of the insulation off the inner conductor. Now attach an antenna insulator to the end of the inner conductor. Measure the braided shield. Cut it off at about 106" and attach an antenna insulator to the end. The total length of the inner and outer conductor should be about 17 feet (1/2 wave). You can haul it up to any height you want with a string or rope attached to the insulator on the center conductor. It's a good idea to coat the end of the coax cable where it separates with some kind of waterproof sealer. This keeps water from seeping into the coax, which could cause a high SWR.

Just attach a coax connector on the end of the coax going to your transceiver and you are on the air. The SWR should be 1.5 or better, if cut to the proper length. It'll get out about as good as a =BC wave ground plane CB radio antenna if you get it up high and in the clear. Do not hoist this antenna up next to a metal pole, because the metal will interfere with the antenna's operation and cause a high SWR

just get the lenght's right and you can mount this to a NON conducting pole eg wood , plastic coated carbon(fishing pole)

```
From 8754917803335000884
X-Google-Thread: fc2a5,d713c96b5c43a7a7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
```

```
mail
From: "mjsystems" <madgadget05@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ^^
Date: 8 Oct 2006 02:09:38 -0700
Organization: http://groups.google.com
Lines: 5
Message-ID: <1160298578.318253.88120@m7g2000cwm.googlegroups.com>
References: <1160298174.371241.180050@m73g2000cwd.googlegroups.com>
NNTP-Posting-Host: 84.9.203.23
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160298582 8894 127.0.0.1 (8 Oct 2006 09:09:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 8 Oct 2006 09:09:42 +0000 (UTC)
In-Reply-To: <1160298174.371241.180050@m73g2000cwd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50215; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=84.9.203.23;
   posting-account=0gjX0w0AAADorEf0CUQbT6ONWgwNMT4k
Xref: g2news2.google.com rec.radio.amateur.homebrew:7331
```

this is a good idea to pre make this and mount it out of the way up
high like flat agenst your roof.this way if your main antenna brake's
or goes faulty then you have a backup always ready!!

```
From 2891250613903529448
X-Google-Thread: fc2a5,d713c96b5c43a7a7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-
mail
From: "mjsystems" <madgadget05@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: ^^
Date: 8 Oct 2006 02:10:04 -0700
Organization: http://groups.google.com
Lines: 5
Message-ID: <1160298604.444021.263820@k70g2000cwa.googlegroups.com>
References: <1160298174.371241.180050@m73g2000cwd.googlegroups.com>
NNTP-Posting-Host: 84.9.203.23
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160298608 8972 127.0.0.1 (8 Oct 2006 09:10:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 8 Oct 2006 09:10:08 +0000 (UTC)
In-Reply-To: <1160298174.371241.180050@m73g2000cwd.googlegroups.com>
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50215; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=84.9.203.23;
   posting-account=0gjX0w0AAADorEf0CUQbT6ONWgwNMT4k
Xref: g2news2.google.com rec.radio.amateur.homebrew:7332


this is a good idea to pre make this and mount it out of the way up
high like flat agenst your roof.this way if your main antenna brake's
or goes faulty then you have a backup always ready!!




From 1903322880900073987
X-Google-Thread: fc8b1,8806e747b43be758,start
X-Google-Thread: fc2a5,8806e747b43be758,start
X-Google-Thread: 10bf43,8806e747b43be758,start
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news.cs.univ-paris8.fr!
ciril.fr!news.ecp.fr!aioe.org!emma.aioe.org!aioe.org!Mark
From: Mark@kb9rqz.net (Mark@ab9rqz.net)
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Pnig netcopp gay basher Don Boewy
Date: Sun, 8 Oct 2006 11:20:03 +0000 (UTC)
Organization: Aioe.org NNTP Server
Lines: 17
Message-ID: <754gi2tmmnifrol85pqfj3j4ufigl9htkj9@4ax.com>
NNTP-Posting-Host: B0K0MvSJ62Yn2sIScJyUWA.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Free Agent 3.3/32.846
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5871
rec.radio.amateur.homebrew:7333 rec.radio.amateur.policy:49183


On Sat, 07 Oct 2006 11:16:22 -0700, Don Bowey <dbowey@comcast.net> wrote:
> On 10/7/06 10:42 AM, in article oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com,
> "Mark@kb9rqz.net" <Mark@kb9rqz.net> wrote:
>
> > On Sat, 7 Oct 2006 15:28:25 +0000 (UTC), my.mail@no.spam (Slow Code)
> > wrote:
> >
> > stop you welching sc
> > http://kb9rqz.blogspot.com/
>
> I reported your abuse to this and other boards, to your service provider.
> Hopefully they will shut you down.
you cwoards can try buts ofar you ahve all failed.  you are jsut anothre
```

gay basher who wilshit and fall back init again.

http://kb9rqz.blogspot.com/

```
From 8323750813739651038
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!aioe.org!emma.aioe.org!
aioe.org!Mark
From: Mark@kb9rqz.net (Mark@kb9rqz.net)
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: stop you welching sc
Date: Sun, 8 Oct 2006 15:25:58 +0000 (UTC)
Organization: Aioe.org NNTP Server
Lines: 15
Message-ID: <754gi3umfvtrol85pqfj3j4ufigl9htkj9@4ax.com>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
<xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net>
<BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net>
<oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com> <C14D3D06.46962%dbowey@comcast.net>
NNTP-Posting-Host: xD4hHo6JaMtvrr/K7VsXLQ.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Free Agent 3.3/32.846
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5873
rec.radio.amateur.homebrew:7334 rec.radio.amateur.policy:49188
```

```
On Sat, 07 Oct 2006 11:16:22 -0700, Don Bowey <dbowey@comcast.net> wrote:
> On 10/7/06 10:42 AM, in article oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com,
> "Mark@kb9rqz.net" <Mark@kb9rqz.net> wrote:
>
> > On Sat, 7 Oct 2006 15:28:25 +0000 (UTC), my.mail@no.spam (Slow Code)
> > wrote:
> >
> > stop you welching sc
> > http://kb9rqz.blogspot.com/
>
> I reported your abuse to this and other boards, to your service provider.
> Hopefully they will shut you down.
fukc you inner mouth.
http://kb9rqz.blogspot.com/
```

```
From -8629711587614510378
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: stop you welching sc
Date: Sun, 08 Oct 2006 12:03:18 -0400
Message-ID: <m98ii2hofapa8fbcm2asa7sd4b5rat31vh@4ax.com>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
<xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net>
<BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net>
<oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com> <C14D3D06.46962%dbowey@comcast.net>
<754gi3umfvtrol85pqfj3j4ufigl9htkj9@4ax.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 20
NNTP-Posting-Date: 08 Oct 2006 15:07:54 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5874
rec.radio.amateur.homebrew:7335 rec.radio.amateur.policy:49192

On Sun, 8 Oct 2006 15:25:58 +0000 (UTC), Mark@kb9rqz.net
(Mark@kb9rqz.net) wrote:

>
>On Sat, 07 Oct 2006 11:16:22 -0700, Don Bowey <dbowey@comcast.net> wrote:
>> On 10/7/06 10:42 AM, in article oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com,
>> "Mark@kb9rqz.net" <Mark@kb9rqz.net> wrote:
>>
>> > On Sat, 7 Oct 2006 15:28:25 +0000 (UTC), my.mail@no.spam (Slow Code)
>> > wrote:
>> >
>> > stop you welching sc
>> > http://kb9rqz.blogspot.com/
>>
>> I reported your abuse to this and other boards, to your service provider.
>> Hopefully they will shut you down.
>fukc you inner mouth.
>http://kb9rqz.blogspot.com/
stop the foring and iD theft
http://kb9rqz.blogspot.com/
```

```
--
Posted via a free Usenet account from http://www.teranews.com




From 6681473431039337088
X-Google-Thread: fc8b1,8806e747b43be758
X-Google-Thread: fc2a5,8806e747b43be758
X-Google-Thread: 10bf43,8806e747b43be758
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: hi steve
Date: Sun, 08 Oct 2006 12:05:38 -0400
Message-ID: <0e8ii21sfbunoctnjj6o0op13ot1s23ka8@4ax.com>
References: <754gi2tmmnifrol85pqfj3j4ufigl9htkj9@4ax.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 5
NNTP-Posting-Date: 08 Oct 2006 15:10:13 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5875
rec.radio.amateur.homebrew:7336 rec.radio.amateur.policy:49196

On Sun, 8 Oct 2006 11:20:03 +0000 (UTC), Mark@kb9rqz.net
(Mark@ab9rqz.net) wrote:

hi steve
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From 7424561301478022451
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!
not-for-mail
NNTP-Posting-Date: Sun, 08 Oct 2006 11:29:17 -0500
Date: Sun, 08 Oct 2006 12:26:05 -0400
```

From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.0.6) Gecko/20060730
SeaMonkey/1.0.4
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: Check the SWR on your HF antenna's.
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
<xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net>
<BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net> <-r2dnT-
L-9e8RLrYnZ2dnUVZ_oudnZ2d@rcn.net>
<Bifhnn.5952$Y24.5826@newsread4.news.pas.earthlink.net>
In-Reply-To: <Bifhnn.5952$Y24.5826@newsread4.news.pas.earthlink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <lJWdnYF4y-zAurTYnZ2dnUVZ_rudnZ2d@rcn.net>
Lines: 118
NNTP-Posting-Host: 72.83.120.187
X-Trace: sv3-QvdBq7H8kSfCpVeuS9oxmttbPbUWxX3nIYxCMTpX/
aSxRANtOQAoLXS1IAfNvC0/3MmTXYVcKja51TZ!8deKMwS/xlD/FFGCHkp4lB/
tDJlQhWmtPaCu5eShMVjVz+ABoFeXGIIbrpZklDDGk78js950ZM8t!pwFHdLWTFY/0
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5876
rec.radio.amateur.homebrew:7337 rec.radio.amateur.policy:49199

Slow Code wrote:
> On Sat, 07 Oct 2006 12:40:08 -0400, Chuck Harris wrote:
>> Slow Code wrote:
>>> On Sat, 07 Oct 2006 10:28:10 -0400, Chuck Harris wrote:
>>>> Actually top posting is a sign of *experience*. Us guys that were on the
>>>> internet back when it was run by darpa always top posted. That was because
>>>> we were running very slow lines, typically 110 to 300 baud, and
>>>> it was desirable
>>>> not to have to wait through the down load of a dozen copies of the
>> same quoted
>>> Bzzzzzzzzzzzzzzzzzzzzzzzzzzt!
>>>
>>> My bullshit detector just went off real loud. Here is an authoritative
>>> statement about ARPANET from one of Comer's books:
>>>
>>> "Initially, most of the leased data circuits in the ARPANET operated
>>> at 56 Kbps, a speed considered extremely fast in 1968 but slow by
>>> current standards." -- Douglas E. Comer, Internetworking with TCP/IP,
>>> Volume One, 3rd Edition, Prentice-Hall (1995), page 57.
>> Yep, those were the *backbones* of ARPANET. We had *ONE* at the University

>> of Maryland back in the 1970s. That leased line cost thousands of dollars
>> per month, and was paid for by darpa. Compare that to the backbones of today
>> which are measured in terrabits per second. These 56K backbones were
>> connected to mainframe computers that acted as concentrators, and provided
>> connections to other mainframes, and to thousands of users on timesharing
>> systems. Yes, I have that right, *thousands* of users shared a single 56K
>> backbone.
>>
>> Those users that were local to the concentrator (eg, in the computer room)
>> were connected to the mainframe by various speed RS-232 lines, but those who
>> were on remote dial up connections were connected by good old bell 103,
>> 110 to 300 baud modems.
>>
>>> 300 baud, my ass! You should have been on a time sharing machine
>>> connected directly to the 56K ARPANET,
>> Yep, we were on timesharing machines, Univac 1106's, 1108's, and 1140's,
>> and as I said, thousands of users shared a single 56K leased line into
>> Darpanet. Do the math, if you can't, I'll help you:
>>
>> 56K/1000 = 56 bps.
>
> So you think that 1000 users at your location were always using
> ARPANET simultaneously? Please don't tell me that someone gave you an
> engineering degree, because you obviously didn't understand the course
> work.

And gee, you only had to read the next sentence to see that I said no such
thing. Look down.

>
>> If there were *only* 1000 users vying for the net at the same time, they
>> could each pump 56bps into the backbone. But there were many many more
>> than that, and they weren't always needing the net all of the time.
>> (hence the name concentrator)
>
>>> Don't try to bullshit someone who has forgotten more about the subject
>>> than you have yet to learn.
>> Riiiight! Just because you can look up darpa on a wiki somewhere, doesn't
>> mean you can understand what you have read.
>
> Comer's books on TCP/IP are standards, and they don't involve a wiki.
> They happen to be in my library of reference textbooks, and they
> happen to be standard references kept in all university libraries.

Just because you can find the names of some books by using google, doesn't
mean you have ever read them, or understood them. I have copies of all three
volumes of "Internetworking with TCP/IP- Client -Server Programming and
Applications" by Douglas E. Comer, and David L. Stevens, Prentice Hall on
my book shelf. (pick a page, any page, and I'll give you a quotation from it.)

If you note the copyright date of this series, you will see 1993. A mere
20 years after I started working with GE's world wide networks... top posting
my email on model 33 teletypes with bell 103 modems.

>
> The claim about slow speeds on ARPANET and Usenet is quite stupid.

Really? Well, I suppose you think that everyone had 56K connections back in the '70's. I worked in the Electrical Engineering department at the University of Maryland, back then, and we were pretty proud of our first 9600 baud connection between the PDP11's, and the Univac's that had the darpa connection. It wasn't until we got a VAX 11/780 that we got a 56K pipe to the Univac's that connected to the darpanet. That was around 1980. I think diapers were you most prominent media for communication back then.

> ARPANET and Usenet did not exist at the same time. ARPANET didn't use
> TCP/IP protocol, and it gave way to what is now called the Internet
> when TCP/IP became the standard packet delivery protocol.

Prior to usenet, a variation on email, we were using email broadcast lists. The same top posting rules applied.

Usenet came into being while I was in graduate school, around 1980-83. I remember there was quite a buzz at that time. Decwriters were 300 baud, and the most common affortable modems were still using the Bell 103 standard from the late '50s. 1200 baud modems were used for expensive applications, usually computer to computer data transfer. The 1200 baud modem didn't come into general use until DC Hayes produced an inexpensive model around 1983. It was a real screamer compared to the Bell 103's.

Shortly
> after that, the message posting system called Usenet was formalized to
> run on the Internet and on several other message delivery systems
> (such as UUCP). So your reference to ARPANET is simply irrelevant.
> ARPANET and Usenet never coexisted, making the claims about 300 bps
> and other speed limitations total BS intended to impress the ignorant.
>
> Enough said. Conversation ended. You don't seem to be worth any
> followup messages until you do some additional reading.

I don't need to read about it, I was there doing it. My first exposure to a world wide network was GE's back around 1970. It was the first commercial use of a global network. The normal terminal to connect to that net was a Model 33 Teletype, with a bell 103 modem. I bet you think they used Windows based PC's with 56K modems, and Netscape.

-Chuck

From 6787837111708272429
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!news.belwue.de!newsfeed.arcor.de!newsspool3.arcor-online.net!news.arcor.de.POSTED!not-for-mail

Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
<e7fqh2hvvmum7rigqhl3g56pdbd0kt8mep@4ax.com>
<pan.2006.09.29.21.12.09.921875@googlemail.com>
<12hrdl9f7ofja28@corp.supernews.com> <pi4sh2l4tar5e46m0872nhadvfcsuif3mg@4ax.com>
<452678b0$0$30584$9b4e6d93@newsspool4.arcor-online.net>
<dt4di25hil16nh3fmqduga4v0cc4q218dc@4ax.com>
<4526be69$0$13102$9b4e6d93@newsspool2.arcor-online.net>
<gakei2toqbk7qn8a8tp7ovdifooe31ektn@4ax.com>
Subject: Re: VLF from the amp
Date: Sun, 8 Oct 2006 21:33:19 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 25
Message-ID: <452959f1$0$13101$9b4e6d93@newsspool2.arcor-online.net>
Organization: Arcor
NNTP-Posting-Date: 08 Oct 2006 22:05:05 CEST
NNTP-Posting-Host: ec265b2a.newsspool2.arcor-online.net
X-Trace:
DXC=SbO10Db4ECI2:OR3:3gaE@A9EHlD;3YcB4Fo<]lROoRA4nDHegD_]RE7UU>TXc\i:BVX4M12AVlMKH
Yl5Dd>ETLC0Okmf88[fPFlQmnodliC@H
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7338

Thanks Paul for the long explanation!

I don't found a good source how ferrite rods works for transmitters. All say it cannot work because of big power eating in the ferrite. How much power is possible?
I think 1 watt should be possible.
I google on...

> >http://www.ancom.no/
> >products? They claim their ferrite rod styled antenna works as good
> >transmitter. See their patent application.
>
> These seem to be near field devices even at MF, where they seem to
> operate.

No! They are far-field devices.

I even saw a explosion picture of a mobile phone antenna 900MHz helix construction as composite in a (ferrite?) filled outline.

Does an antenna exists, which receives BOTH field-vectors? If the antenna covers only one /E or M), half of the transmitting power is lost - correct?

- Henry

```
From -9246381296536O7493
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Thread: 1109af,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Check the SWR on your HF antenna's.
From: Slow Code <my.mail@no.spam>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<LqVVg.11324$UG4.1538@newsread2.news.pas.earthlink.net>
<11324$UG43.2458F8789@tarrnews.net> <il6hi2t4v4q63dalar3dbgrmiubql6olei@4ax.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 16
Message-ID: <dRgWg.8914$o71.6596@newsread3.news.pas.earthlink.net>
Date: Mon, 09 Oct 2006 00:37:29 GMT
NNTP-Posting-Host: 4.254.230.170
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1160354249 4.254.230.170 (Sun, 08 Oct
2006 17:37:29 PDT)
NNTP-Posting-Date: Sun, 08 Oct 2006 17:37:29 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5888
rec.radio.amateur.homebrew:7339 rec.radio.amateur.policy:49233 rec.radio.swap:8389
```

john <john@nospam.net> wrote in
news:il6hi2t4v4q63dalar3dbgrmiubql6olei@4ax.com:

> Who is Slow Code? What is his call???
> Does anybody know???

Hello John. I'm KB9RQZ, and I just love CW. We need to bring back code testing for Techs. 13 wpm should work fine, Then we can keep the riff-raff off the repeaters and end all the bogus moon bounce contacts.

I've been burned by bogus EME contacts, but I'm a retard.

73'sssss & 88'sssssss

SC

```
From 4612948433895205372
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-
nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: Check the SWR on your HF antenna's.
From: Slow Code <my.mail@no.spam>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
<xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net>
<BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net> <-r2dnT-
L-9e8RLrYnZ2dnUVZ_oudnZ2d@rcn.net>
<1160267392.851652.48400@e3g2000cwe.googlegroups.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 101
Message-ID: <hRgWg.8915$o71.7501@newsread3.news.pas.earthlink.net>
Date: Mon, 09 Oct 2006 00:37:33 GMT
NNTP-Posting-Host: 4.254.230.170
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1160354253 4.254.230.170 (Sun, 08 Oct
2006 17:37:33 PDT)
NNTP-Posting-Date: Sun, 08 Oct 2006 17:37:33 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5889
rec.radio.amateur.homebrew:7340 rec.radio.amateur.policy:49234

"LenAnderson@ieee.org" <LenAnderson@ieee.org> wrote in
news:1160267392.851652.48400@e3g2000cwe.googlegroups.com:

> From: Chuck Harris on Sat, Oct 7 2006 12:40 pm
>
>    Thank you for the explanation.  As a user on a corporate system
>    (RCA Corporation, EASD, Van Nuys, CA) '73 to '75, and with a
>    Tym-Share account (the time-sharing computer company), I concur.
>
>>Slow Code wrote:
>>> On Sat, 07 Oct 2006 10:28:10 -0400, Chuck Harris wrote:
>>
>>>> Actually top posting is a sign of *experience*.  Us guys that were on
>>>> the internet back when it was run by darpa always top posted.  That
>>>> was because we were running very slow lines, typically 110 to 300
>>>> baud, and it was desirable
>>>> not to have to wait through the down load of a dozen copies of the
>>>> same quoted
>>
```

>>> Bzzzzzzzzzzzzzzzzzzzzzzzzzzt!
>>
>>> My bullshit detector just went off real loud. Here is an
>>> authoritative statement about ARPANET from one of Comer's books:
>
>   [Blowcode's ears must be ringing all the time from his
>   "bullshit detector" going off on his own postings... :-)]
>
>>> "Initially, most of the leased data circuits in the ARPANET operated
>>> at 56 Kbps, a speed considered extremely fast in 1968 but slow by
>>> current standards." -- Douglas E. Comer, Internetworking with TCP/IP,
>>> Volume One, 3rd Edition, Prentice-Hall (1995), page 57.
>>
>>Yep, those were the *backbones* of ARPANET. We had *ONE* at the
>>University of Maryland back in the 1970s. That leased line cost
>>thousands of dollars per month, and was paid for by darpa. Compare that
>>to the backbones of today which are measured in terrabits per second.
>>These 56K backbones were connected to mainframe computers that acted as
>>concentrators, and provided connections to other mainframes, and to
>>thousands of users on timesharing systems. Yes, I have that right,
>>*thousands* of users shared a single 56K backbone.
>>
>>Those users that were local to the concentrator (eg, in the computer
>>room) were connected to the mainframe by various speed RS-232 lines, but
>>those who were on remote dial up connections were connected by good old
>>bell 103, 110 to 300 baud modems.
>
>   Heh heh heh...the "high tech" of its time, a mere 30+ years
>   ago. "Speedy" Teletype Model 33s (?) and "high speed" 300
>   baud video terminals (with local memory to print out screens
>   on Teletypes) where I was using it. :-)
>
>>> 300 baud, my ass! You should have been on a time sharing machine
>>> connected directly to the 56K ARPANET,
>>
>>Yep, we were on timesharing machines, Univac 1106's, 1108's, and 1140's,
>>and as I said, thousands of users shared a single 56K leased line into
>>Darpanet. Do the math, if you can't, I'll help you:
>>
>>56K/1000 = 56 bps.
>>
>>If there were *only* 1000 users vying for the net at the same time, they
>>could each pump 56bps into the backbone. But there were many many more
>>than that, and they weren't always needing the net all of the time.
>>(hence the name concentrator)
>
>   "Concentrators" still exist but in a vastly different form,
>   configuration, and specifications. As a personal computer
>   hobbyist since '76 I've not delved into them (no need to for
>   personal dial-up connections) but know many who are; they
>   have supplied some interesting literature on them as well as
>   in-person explanations.
>

>>> so don't bother to backpedal by
>>
>>I'm sorry, I don't backpedal for idiots. I don't brake for them either.
>
>   Blowcode is the road kill of this newsgroup...
>
>>> claiming dialup speeds. (And of course Usenet didn't even begin until
>>> the 80's, shortly after ARPANET had ended.)
>>
>>> Don't try to bullshit someone who has forgotten more about the subject
>>> than you have yet to learn.
>>
>>Riiiight! Just because you can look up darpa on a wiki somewhere,
>>doesn't mean you can understand what you have read.
>
>   HAAAAAA... :-)
>
>   Blowcode has never stated his amateur license call. Perhaps
>   he has "forgotten" it? :-)
>
>   LenAnderson@ieee.org

I haven't forgotten it. It's a real 20WPM extra class licence. Not one of
them cheap Nickled down hand-out ones. Heee Heeee Heeeeeeeeee.

Ten-Four Len?

SC

From 6611499491558545645
X-Google-Thread: fc8b1,2dd76509fb44502d,start
X-Google-Thread: fc2a5,2dd76509fb44502d,start
X-Google-Thread: 10bf43,2dd76509fb44502d,start
X-Google-Thread: 1109af,2dd76509fb44502d,start
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Question for the group. Mainly new hams.
From: Slow Code <my.mail@no.spam>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 3
Message-ID: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
Date: Mon, 09 Oct 2006 00:37:52 GMT
NNTP-Posting-Host: 4.254.230.170
X-Complaints-To: abuse@earthlink.net

X-Trace: newsread3.news.pas.earthlink.net 1160354272 4.254.230.170 (Sun, 08 Oct 2006 17:37:52 PDT)
NNTP-Posting-Date: Sun, 08 Oct 2006 17:37:52 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5890 rec.radio.amateur.homebrew:7341 rec.radio.amateur.policy:49245 rec.radio.swap:8394

What do you like best about appliance operating?

SC

From 5815897663016211471
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: Check the SWR on your HF antenna's.
Date: Sun, 08 Oct 2006 20:42:38 -0400
Message-ID: <an6ji2t9fihb2e0tsd36v2fpg5t1d59jtr@4ax.com>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net> <8JHVg.42819$rP1.30725@news-server.bigpond.net.au> <ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com> <BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net> <xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net> <BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net> <-r2dnT-L-9e8RLrYnZ2dnUVZ_oudnZ2d@rcn.net> <1160267392.851652.48400@e3g2000cwe.googlegroups.com> <hRgWg.8915$o71.7501@newsread3.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 13
NNTP-Posting-Date: 08 Oct 2006 23:47:16 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5891 rec.radio.amateur.homebrew:7342 rec.radio.amateur.policy:49249

On Mon, 09 Oct 2006 00:37:33 GMT, Slow Code <my.mail@no.spam> wrote:

>
>
>I haven't forgotten it. It's a real 20WPM extra class licence. Not one of
>them cheap Nickled down hand-out ones. Heee Heeee Heeeeeeeeee.
you are afraid to lmention it though
>

>Ten-Four Len?
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -8486966292926387100
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Thread: 1109af,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!newsfeed01.sul.t-online.de!t-online.de!news.csl-gmbh.net!skynet.be!66.150.105.54.MISMATCH!
nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Check the SWR on your HF antenna's.
Date: Sun, 08 Oct 2006 20:43:10 -0400
Message-ID: <fo6ji25if93sd471civp41ljlu51tv4tf1@4ax.com>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<LqVVg.11324$UG4.1538@newsread2.news.pas.earthlink.net>
<11324$UG43.2458F8789@tarrnews.net> <il6hi2t4v4q63dalar3dbgrmiubql6olei@4ax.com>
<dRgWg.8914$o71.6596@newsread3.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 12
NNTP-Posting-Date: 08 Oct 2006 23:47:45 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5892
rec.radio.amateur.homebrew:7343 rec.radio.amateur.policy:49250 rec.radio.swap:8398

On Mon, 09 Oct 2006 00:37:29 GMT, Slow Code <my.mail@no.spam> wrote:

>john <john@nospam.net> wrote in
>news:il6hi2t4v4q63dalar3dbgrmiubql6olei@4ax.com:
>
>> Who is Slow Code? What is his call???
>> Does anybody know???
>
>
>Hello John. I'm KB9RQZ, and I just love CW.

stop lying
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -2262934877898646256
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: troling right along
Date: Sun, 08 Oct 2006 20:46:24 -0400
Message-ID: <nu6ji2hogdvu8r0mtjkeuv35v5ee570sls@4ax.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 4
NNTP-Posting-Date: 08 Oct 2006 23:50:59 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5893
rec.radio.amateur.homebrew:7344 rec.radio.amateur.policy:49257 rec.radio.swap:8400

On Mon, 09 Oct 2006 00:37:52 GMT, Slow Code <my.mail@no.spam> wrote:

troling right along
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From 3854427147976066807
X-Google-Thread: fc8b1,8806e747b43be758
X-Google-Thread: fc2a5,8806e747b43be758
X-Google-Thread: 10bf43,8806e747b43be758
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!

```
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 08 Oct 2006 20:34:59 -0500
User-Agent: Microsoft-Entourage/10.0.0.1309
Date: Sun, 08 Oct 2006 18:34:56 -0700
Subject: Re: Pnig netcopp gay basher Don Boewy
From: Don Bowey <dbowey@comcast.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Message-ID: <C14EF550.46BDB%dbowey@comcast.net>
References: <754gi2tmmnifrol85pqfj3j4ufigl9htkj9@4ax.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
Lines: 30
NNTP-Posting-Host: 24.20.154.195
X-Trace: sv3-qboZhZu/
ZieR7fr0cNYvEsj59vdqrUwSgeDnIYuP5wB0qGL1LHyBGw7C7xzL6l12vQhPBQtxPZ4JwSV!
HV36a2TzyYfRfJi6fv41JnhxFfXDMOB+DeXt8b0bWrcVZBEu/dkL/7ZMTxHPkHg+fEyQgQMZ
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5895
rec.radio.amateur.homebrew:7345 rec.radio.amateur.policy:49263

On 10/8/06 4:20 AM, in article 754gi2tmmnifrol85pqfj3j4ufigl9htkj9@4ax.com,
"Mark@ab9rqz.net" <Mark@kb9rqz.net> wrote:

>
> On Sat, 07 Oct 2006 11:16:22 -0700, Don Bowey <dbowey@comcast.net> wrote:
>> On 10/7/06 10:42 AM, in article oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com,
>> "Mark@kb9rqz.net" <Mark@kb9rqz.net> wrote:
>>
>>> On Sat, 7 Oct 2006 15:28:25 +0000 (UTC), my.mail@no.spam (Slow Code)
>>> wrote:
>>>
>>> stop you welching sc
>>> http://kb9rqz.blogspot.com/
>>
>> I reported your abuse to this and other boards, to your service provider.
>> Hopefully they will shut you down.
> you cwoards can try buts ofar you ahve all failed.  you are jsut anothre
> gay basher who wilshit and fall back init again.
>
> http://kb9rqz.blogspot.com/

I already received a reply from your service provider, but I'll send this to
them also.

As to gay bashing.... You are a liar.  You can't find a post anywhere to
support your lie.
```

```
From 344649096959010812
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 08 Oct 2006 20:49:16 -0500
User-Agent: Microsoft-Entourage/10.0.0.1309
Date: Sun, 08 Oct 2006 18:49:15 -0700
Subject: Re: stop you welching sc
From: Don Bowey <dbowey@comcast.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Message-ID: <C14EF8AB.46BDC%dbowey@comcast.net>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
<xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net>
<BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net>
<oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com> <C14D3D06.46962%dbowey@comcast.net>
<754gi3umfvtrol85pqfj3j4ufigl9htkj9@4ax.com>
<m98ii2hofapa8fbcm2asa7sd4b5rat31vh@4ax.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
Lines: 28
NNTP-Posting-Host: 24.20.154.195
X-Trace: sv3-WmaLiicwbbpGaG2Ugp4pWX8DmDZHGQHLdaIPmcrAaNBfC8FYBWIX/
sP+SaoL0XlaTsKfi3U1L2kMrD3!Epaq/tjHt/
L8mI8ulrm6KBNUsObMia5f3JUrghNoKPsxCTbjxbHYZyZ2s8+SZHQwswrY7Ims
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5896
rec.radio.amateur.homebrew:7346 rec.radio.amateur.policy:49268
```

On 10/8/06 9:03 AM, in article m98ii2hofapa8fbcm2asa7sd4b5rat31vh@4ax.com,
"Mark@kb9rqz.net" <Mark@kb9rqz.net> wrote:

> On Sun, 8 Oct 2006 15:25:58 +0000 (UTC), Mark@kb9rqz.net

```
> (Mark@kb9rqz.net) wrote:
>
>>
>> On Sat, 07 Oct 2006 11:16:22 -0700, Don Bowey <dbowey@comcast.net> wrote:
>>> On 10/7/06 10:42 AM, in article oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com,
>>> "Mark@kb9rqz.net" <Mark@kb9rqz.net> wrote:
>>>
>>>> On Sat, 7 Oct 2006 15:28:25 +0000 (UTC), my.mail@no.spam (Slow Code)
>>>> wrote:
>>>>
>>>> stop you welching sc
>>>> http://kb9rqz.blogspot.com/
>>>
>>> I reported your abuse to this and other boards, to your service provider.
>>> Hopefully they will shut you down.
>> fukc you inner mouth.
>> http://kb9rqz.blogspot.com/
> stop the foring and iD theft
> http://kb9rqz.blogspot.com/
```

I see you have a new path this time. I sent this one and the routing to the abuse address, too.

```
From 3147743318492391733
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!elnk-atl-nf1!newsfeed.earthlink.net!news-
feed-01.tampabay.rr.com!news.rr.com!news-post.tampabay.rr.com!
tornado.tampabay.rr.com.POSTED!53ab2750!not-for-mail
From: **THE-RFI-EMI-GUY** <rhyolite@nettally.com>
User-Agent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.2) Gecko/20040804
Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
In-Reply-To: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit
Lines: 19
Message-ID: <CWiWg.9949$YO.9181@tornado.tampabay.rr.com>
Date: Mon, 09 Oct 2006 02:59:46 GMT
```

```
NNTP-Posting-Host: 70.121.227.31
X-Complaints-To: abuse@rr.com
X-Trace: tornado.tampabay.rr.com 1160362786 70.121.227.31 (Sun, 08 Oct 2006
22:59:46 EDT)
NNTP-Posting-Date: Sun, 08 Oct 2006 22:59:46 EDT
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5897
rec.radio.amateur.homebrew:7347 rec.radio.amateur.policy:49272 rec.radio.swap:8407

The new radio smell.

Slow Code wrote:

>What do you like best about appliance operating?
>
>SC
>
>

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"�

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money"  ;-P



From -8224775274080653704
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!b2c36a81!not-for-mail
From: "COLIN LAMB" <k7fm@teleport.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<CWiWg.9949$YO.9181@tornado.tampabay.rr.com>
Subject: Re: Question for the group. Mainly new hams.
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
```

Message-ID: <uUjWg.9044$o71.1849@newsread3.news.pas.earthlink.net>
Date: Mon, 09 Oct 2006 04:05:46 GMT
NNTP-Posting-Host: 4.242.174.239
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1160366746 4.242.174.239 (Sun, 08 Oct 2006 21:05:46 PDT)
NNTP-Posting-Date: Sun, 08 Oct 2006 21:05:46 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5898 rec.radio.amateur.homebrew:7348 rec.radio.amateur.policy:49273 rec.radio.swap:8408

"What do you like best about appliance operating?"

The are wonderful for making dinner, washing the dishes or washing or drying clothes.

Colin K7FM

From -5819784339956494273
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Mark@kb9rqz.net (Mark@kb9rqz.net)
Newsgroups: rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: stop you gay bashing Don Boewy
Date: Mon, 9 Oct 2006 10:36:20 +0000 (UTC)
Organization: Aioe.org NNTP Server
Lines: 30
Message-ID: <694gi2tmfvtrol85pqfj3j4ufigl9htkj9@4ax.com>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net> <8JHVg.42819$rP1.30725@news-server.bigpond.net.au> <ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com> <BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net> <xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net> <BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net> <oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com> <C14D3D06.46962%dbowey@comcast.net> <754gi3umfvtrol85pqfj3j4ufigl9htkj9@4ax.com> <m98ii2hofapa8fbcm2asa7sd4b5rat31vh@4ax.com> <C14EF8AB.46BDC%dbowey@comcast.net>
NNTP-Posting-Host: 6GX+n9D7jRUtoB80uASW4g.user.aioe.org
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@aioe.org
X-Newsreader: Forte Free Agent 3.3/32.846
Path: g2news2.google.com!news1.google.com!news.germany.com!newsfeed.freenet.de!newsfeed.x-privat.org!aioe.org!emma.aioe.org!aioe.org!Mark

```
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5899
rec.radio.amateur.homebrew:7349 rec.radio.amateur.policy:49338


On Sun, 08 Oct 2006 18:49:15 -0700, Don Bowey <dbowey@comcast.net> wrote:
> On 10/8/06 9:03 AM, in article m98ii2hofapa8fbcm2asa7sd4b5rat31vh@4ax.com,
> "Mark@kb9rqz.net" <Mark@kb9rqz.net> wrote:
>
> > On Sun, 8 Oct 2006 15:25:58 +0000 (UTC), Mark@kb9rqz.net
> > (Mark@kb9rqz.net) wrote:
> >
> >>
> >> On Sat, 07 Oct 2006 11:16:22 -0700, Don Bowey <dbowey@comcast.net> wrote:
> >>> On 10/7/06 in article oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com,
> >>> "Mark@kb9rqz.net" <Mark@kb9rqz.net> wrote:
> >>>
> >>>> On Sat, 7 Oct 2006 15:28:25 +0000 (UTC), my.mail@no.spam (Slow Code)
> >>>> wrote:
> >>>>
> >>>> stop you welching sc
> >>>> http://kb9rqz.blogspot.com/
> >>>
> >>> I reported your abuse to this and other boards, to your service provider.
> >>> Hopefully they will shut you down.
> >> fukc you inner mouth.
> >> http://kb9rqz.blogspot.com/
> > stop the foring and iD theft
> > http://kb9rqz.blogspot.com/
>
> I see you have a new path this time.  I sent this one and the routing to the
> abuse address, too.
you wilonly siht and fall backc in it again gay basher.
http://kb9rqz.blogspot.com/


From 291420709166479106
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.maxwell.syr.edu!
newsfeed.media.kyoto-u.ac.jp!newsfeeds.ihug.co.nz!ihug.co.nz!ken-
transit.news.telstra.net!lon-in.news.telstra.net!news.telstra.net!news-
server.bigpond.net.au!53ab2750!not-for-mail
From: matt vk3zmw <nospam@nospam.ever>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
```

References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
In-Reply-To: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Antivirus: avast! (VPS 0640-6, 08/10/2006), Outbound message
X-Antivirus-Status: Clean
Lines: 6
Message-ID: <fmqWg.44288$rP1.21614@news-server.bigpond.net.au>
Date: Mon, 09 Oct 2006 11:27:07 GMT
NNTP-Posting-Host: 60.224.176.20
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1160393227 60.224.176.20 (Mon, 09 Oct 2006
21:27:07 EST)
NNTP-Posting-Date: Mon, 09 Oct 2006 21:27:07 EST
Organization: BigPond Internet Services
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5902
rec.radio.amateur.homebrew:7350 rec.radio.amateur.policy:49354 rec.radio.swap:8410

Slow Code wrote:
> What do you like best about appliance operating?
>
> SC

Operating the 'big switch' on the chair you are sitting in.

From -3552643462460574046
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newspeer1.de.telia.net!
newspeer4.de.telia.net!de.telia.net!aioe.org!emma.aioe.org!aioe.org!toddaug555
From: toddaug555@yahoo.com (N9OGL)
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: stop you welching sc
Date: Mon, 9 Oct 2006 12:47:39 +0000 (UTC)
Organization: Google Groups
Lines: 38
Message-ID: <1137462796.60230@f14g2000cwb.googlegroups.com>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
<xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net>
<BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net>
<oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com> <C14D3D06.46962%dbowey@comcast.net>
<754gi3umfvtrol85pqfj3j4ufigl9htkj9@4ax.com>
<m98ii2hofapa8fbcm2asa7sd4b5rat31vh@4ax.com> <C14EF8AB.46BDC%dbowey@comcast.net>
NNTP-Posting-Host: 3pxK3BGTFIHrfitFSxekNg.user.aioe.org

```
X-Complaints-To: abuse@aioe.org
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5905
rec.radio.amateur.homebrew:7351 rec.radio.amateur.policy:49361


On Sun, 08 Oct 2006 18:49:15 -0700, Don Bowey <dbowey@comcast.net> wrote:
> On 10/8/06 9:03 AM, in article m98ii2hofapa8fbcm2asa7sd4b5rat31vh@4ax.com,
> "Mark@kb9rqz.net" <Mark@kb9rqz.net> wrote:
>
> > On Sun, 8 Oct 2006 15:25:58 +0000 (UTC), Mark@kb9rqz.net
> > (Mark@kb9rqz.net) wrote:
> >
> >>
> >> On Sat, 07 Oct 2006 11:16:22 -0700, Don Bowey <dbowey@comcast.net> wrote:
> >>> On 10/7/06 10:42 AM, in article oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com,
> >>> "Mark@kb9rqz.net" <Mark@kb9rqz.net> wrote:
> >>>
> >>>> On Sat, 7 Oct 2006 15:28:25 +0000 (UTC), my.mail@no.spam (Slow Code)
> >>>> wrote:
> >>>>
> >>>> stop you welching sc
> >>>> http://kb9rqz.blogspot.com/
> >>>
> >>> I reported your abuse to this and other boards, to your service provider.
> >>> Hopefully they will shut you down.
> >> fukc you inner mouth.
> >> http://kb9rqz.blogspot.com/
> > stop the foring and iD theft
> > http://kb9rqz.blogspot.com/
>
> I see you have a new path this time.  I sent this one and the routing to the
> abuse address, too.

Hey Mark, this retard is following you around and harrassing you.  You
should complain his ISP about him and dont let the bitchwhore get
way with it.  He also violate his state laws and you state laws and
you can file police complaint against the harrassment coward.

Todd N9OGL
OMEGA ONE RADIO
13.556.00 LSB
88.3 MHz FM



From 2326980751134425661
X-Google-Thread: fc2a5,f9844728a7437632
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!newsfeed.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-03!sn-xt-sjc-01!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
```

Subject: Re: PSD on a spectrum analyzer.
Date: Mon, 9 Oct 2006 09:13:41 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12ikt9mk5fcmua9@corp.supernews.com>
References: <1160062581.342218.315870@m73g2000cwd.googlegroups.com>
<1160066361.921060.189680@k70g2000cwa.googlegroups.com>
<12iarnp3a5pekb8@corp.supernews.com>   <12ibc3e3ov1nr10@corp.supernews.com>
<12ibgsn5ll1qt7d@corp.supernews.com>   <12idekiaq151n81@corp.supernews.com>
<1160168316.507130.68170@m7g2000cwm.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 24
Xref: g2news2.google.com rec.radio.amateur.homebrew:7352

Hi Tom,

"K7ITM" <k7itm@msn.com> wrote in message
news:1160168316.507130.68170@m7g2000cwm.googlegroups.com...
> Sheesh, indeed. Where did you hear _that_?

Various people at Tektronix. Perhaps they were trying to portray Agilent as being somewhat more "shrunken" than they really were based on how downsized they'd just been?

The new Agilent MXA series analyzers look really nice (we've had a demo). I'm glad to see that the Agilent spectrum analyzer folks realized that, if you're going to have an instrument that's based on a PC architecture, people want a *good* PC architecture to back it with -- I'm thinking of the MXA's XGA LCD, some reasonably modern CPU, etc.; it's *snappy*. Compare to some of Agilent's network analyzers... we have an N5230A that's only 9 months old, and it has a 640x480 LCD *with a dead pixel* and a whopping 500MHz CPU. Ouch! My understanding is that the current ones still have the same old LCD, but a 1.1GHz CPU now (woo hoo!)

Thanks for the extra information,
---Joel

From -6009299176483961360
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-mail

From: "K7ITM" <k7itm@msn.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: 9 Oct 2006 10:33:07 -0700
Organization: http://groups.google.com
Lines: 9
Message-ID: <1160415187.380043.233770@b28g2000cwb.googlegroups.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160415192 26647 127.0.0.1 (9 Oct 2006 17:33:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 9 Oct 2006 17:33:12 +0000 (UTC)
In-Reply-To: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5910
rec.radio.amateur.homebrew:7353 rec.radio.amateur.policy:49375 rec.radio.swap:8417

Slow wrote:
> What do you like best about appliance operating?

I particularly like that the free neutron density is quite low, at
least for most white goods.

When are you going to stop beating your mother?

From 5252590482830515268
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!
news.albasani.net!not-for-mail
From: "Lloyd Davies Slappa" <LDS@nomail.invalid>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: stop you gay bashing Don Boewy
Date: Mon, 9 Oct 2006 15:20:08 -0400
Organization: Outing Lloyd Davies
Lines: 49

```
Message-ID: <ege7dd$5ib$1@news.albasani.net>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
<xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net>
<BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net>
<oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com> <C14D3D06.46962%dbowey@comcast.net>
<754gi3umfvtrol85pqfj3j4ufigl9htkj9@4ax.com>
<m98ii2hofapa8fbcm2asa7sd4b5rat31vh@4ax.com> <C14EF8AB.46BDC%dbowey@comcast.net>
<694gi2tmfvtrol85pqfj3j4ufigl9htkj9@4ax.com>
X-Trace: CXJA12PrvGiSSzpePpLDLrOwpVjEF3Tj4JT2K8L21Sh7K8IjfyCwKarsTRaKXVgKOirgo/
7LUmV6dbGd0A0Aor0OIajqJOFVff2zN0TjOu2yl4Piw/r5Upv1cud+bTf8
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Mon, 9 Oct 2006 19:20:13 +0000 (UTC)
X-User-ID: fsxm2W55diJHlYbKyCBXHlhqrBZVQeyi8ffeCj88CuA=
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-NNTP-Posting-Host:
h6IIk5jIHzspgfc6wv4wFxF3AyKHQzw2megDrBJCECUCdQeOHZYApuDl7YBzk0cMI7I09lL5aQT7yy2Hi2
Fc8w==
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5911
rec.radio.amateur.homebrew:7354 rec.radio.amateur.policy:49378


<Mark@kb9rqz.net> wrote in message
news:694gi2tmfvtrol85pqfj3j4ufigl9htkj9@4ax.com...
>
> On Sun, 08 Oct 2006 18:49:15 -0700, Don Bowey <dbowey@comcast.net> wrote:
>> On 10/8/06 9:03 AM, in article
>> m98ii2hofapa8fbcm2asa7sd4b5rat31vh@4ax.com,
>> "Mark@kb9rqz.net" <Mark@kb9rqz.net> wrote:
>>
>> > On Sun, 8 Oct 2006 15:25:58 +0000 (UTC), Mark@kb9rqz.net
>> > (Mark@kb9rqz.net) wrote:
>> >
>> >>
>> >> On Sat, 07 Oct 2006 11:16:22 -0700, Don Bowey <dbowey@comcast.net>
>> >> wrote:
>> >>> On 10/7/06 in article oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com,
>> >>> "Mark@kb9rqz.net" <Mark@kb9rqz.net> wrote:
>> >>>
>> >>>> On Sat, 7 Oct 2006 15:28:25 +0000 (UTC), my.mail@no.spam (Slow Code)
>> >>>> wrote:
>> >>>>
>> >>>> stop you welching sc
>> >>>> http://kb9rqz.blogspot.com/
>> >>>
>> >>> I reported your abuse to this and other boards, to your service
>> >>> provider.
>> >>> Hopefully they will shut you down.
>> >> fukc you inner mouth.
>> >> http://kb9rqz.blogspot.com/
>> > stop the foring and iD theft
>> > http://kb9rqz.blogspot.com/
>>
>> I see you have a new path this time.  I sent this one and the routing to
>> the
>> abuse address, too.
> you wilonly siht and fall backc in it again gay basher.
> http://kb9rqz.blogspot.com/
>
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
Another forge brought to you by Lloyd Davies NOVFP.

http://www.qrz.com/detail/N0VFP

http://i12.tinypic.com/2qnv3fr.jpg

Hi Lardass.






From 6150056537058405858
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!newsfeed0.kamp.net!
newsfeed.kamp.net!newsfeed.freenet.de!news.albasani.net!not-for-mail
From: "Lloyd Davies Slappa" <LDS@nomail.invalid>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: stop you welching sc
Date: Mon, 9 Oct 2006 15:22:29 -0400
Organization: Outing Lloyd Davies
Lines: 59
Message-ID: <ege7hq$5p5$1@news.albasani.net>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
<8JHVg.42819$rP1.30725@news-server.bigpond.net.au>
<ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
<xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net>
<BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net>
<oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com> <C14D3D06.46962%dbowey@comcast.net>
<754gi3umfvtrol85pqfj3j4ufigl9htkj9@4ax.com>
<m98ii2hofapa8fbcm2asa7sd4b5rat31vh@4ax.com> <C14EF8AB.46BDC%dbowey@comcast.net>
<1137462796.60230@f14g2000cwb.googlegroups.com>
X-Trace:
qkjsNwLv+447wsBrth8CLgQYQWb9amZyiIc2rAzQ+0zABDzPCmWg+Ltx+cLkhs3XGuQiorkN7xKgDYxtDq
```

```
04WSfNdmYGZgMT/7d4fNsTbgKmVHvrqifJswHvrkJvwwHw
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Mon, 9 Oct 2006 19:22:34 +0000 (UTC)
X-User-ID: bdS76rVuXEKNknrZ0T4xX5eic3VnjQKc1uODvkOMhBY=
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-NNTP-Posting-Host: jjRyYSxk6DWZPjRO3qk3fKTKgi711S0xlG+8UdTHK/
S+oFL3fwRLGS7hUVDj6SXRERzS4Dzzu8vvXJ9UZFa1yA==
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5912
rec.radio.amateur.homebrew:7355 rec.radio.amateur.policy:49380


"N9OGL" <toddaug555@yahoo.com> wrote in message
news:1137462796.60230@f14g2000cwb.googlegroups.com...
>
> On Sun, 08 Oct 2006 18:49:15 -0700, Don Bowey <dbowey@comcast.net> wrote:
>> On 10/8/06 9:03 AM, in article
>> m98ii2hofapa8fbcm2asa7sd4b5rat31vh@4ax.com,
>> "Mark@kb9rqz.net" <Mark@kb9rqz.net> wrote:
>>
>> > On Sun, 8 Oct 2006 15:25:58 +0000 (UTC), Mark@kb9rqz.net
>> > (Mark@kb9rqz.net) wrote:
>> >
>> >>
>> >> On Sat, 07 Oct 2006 11:16:22 -0700, Don Bowey <dbowey@comcast.net>
>> >> wrote:
>> >>> On 10/7/06 10:42 AM, in article
>> >>> oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com,
>> >>> "Mark@kb9rqz.net" <Mark@kb9rqz.net> wrote:
>> >>>
>> >>>> On Sat, 7 Oct 2006 15:28:25 +0000 (UTC), my.mail@no.spam (Slow Code)
>> >>>> wrote:
>> >>>>
>> >>>> stop you welching sc
>> >>>> http://kb9rqz.blogspot.com/
>> >>>
>> >>> I reported your abuse to this and other boards, to your service
>> >>> provider.
>> >>> Hopefully they will shut you down.
>> >> fukc you inner mouth.
>> >> http://kb9rqz.blogspot.com/
>> > stop the foring and iD theft
>> > http://kb9rqz.blogspot.com/
>>
>> I see you have a new path this time.  I sent this one and the routing to
>> the
>> abuse address, too.
>
> Hey Mark, this retard is following you around and harrassing you.  You
> should complain his ISP about him and dont let the bitchwhore get
> way with it.  He also violate his state laws and you state laws and
> you can file police complaint against the harrassment coward.
>
> Todd N9OGL
> OMEGA ONE RADIO
> 13.556.00 LSB
> 88.3 MHz FM
>
>
      ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
Another forge brought to you by Lloyd Davies NOVFP.

http://www.qrz.com/detail/N0VFP

http://i12.tinypic.com/2qnv3fr.jpg

Hi Lardass.
```

```
From 7587732381009664652
X-Google-Thread: fc8b1,8806e747b43be758
X-Google-Thread: fc2a5,8806e747b43be758
X-Google-Thread: 10bf43,8806e747b43be758
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!newsfeed.freenet.de!
news.albasani.net!not-for-mail
From: "Lloyd Davies Slappa" <LDS@nomail.invalid>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: Pnig netcopp gay basher Don Boewy
Date: Mon, 9 Oct 2006 15:49:29 -0400
Organization: Outing Lloyd Davies
Lines: 44
Message-ID: <ege94d$7mv$1@news.albasani.net>
References: <754gi2tmmnifrol85pqfj3j4ufigl9htkj9@4ax.com>
<C14EF550.46BDB%dbowey@comcast.net>
X-Trace: mGRQ2US+BqeawA2+Ayp50+1k+W4WJhj4A6Mw4nMHs/
+gWV2fij1T9nyyM9Cldf2OH99tlr1ymxtBNs9+kNe9zzySI6nt3zpMAfJsyJEDq/
yKuRdwme+4JxRd0rdzuSO9
X-Complaints-To: abuse@albasani.net
NNTP-Posting-Date: Mon, 9 Oct 2006 19:49:34 +0000 (UTC)
X-User-ID: EtzyaTm2wLEAydoXXvJHTQ709VQpcgzyeAUOTRhLurg=
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-NNTP-Posting-Host: MrDJ/
XM7DrGQE3mAOZYv0n6mVhHhjuUxaHz4QuWyx3K14XxAFJgd8Scwz7ZjPYBV6xzWNnT3RMceZjnbtt5Jvw=
=
X-Priority: 3
```

```
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5913
rec.radio.amateur.homebrew:7356 rec.radio.amateur.policy:49383


"Don Bowey" <dbowey@comcast.net> wrote in message
news:C14EF550.46BDB%dbowey@comcast.net...
> On 10/8/06 4:20 AM, in article
> 754gi2tmmnifrol85pqfj3j4ufigl9htkj9@4ax.com,
> "Mark@ab9rqz.net" <Mark@kb9rqz.net> wrote:
>
>>
>> On Sat, 07 Oct 2006 11:16:22 -0700, Don Bowey <dbowey@comcast.net> wrote:
>>> On 10/7/06 10:42 AM, in article
>>> oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com,
>>> "Mark@kb9rqz.net" <Mark@kb9rqz.net> wrote:
>>>
>>>> On Sat, 7 Oct 2006 15:28:25 +0000 (UTC), my.mail@no.spam (Slow Code)
>>>> wrote:
>>>>
>>>> stop you welching sc
>>>> http://kb9rqz.blogspot.com/
>>>
>>> I reported your abuse to this and other boards, to your service
>>> provider.
>>> Hopefully they will shut you down.
>> you cwoards can try buts ofar you ahve all failed.  you are jsut anothre
>> gay basher who wilshit and fall back init again.
>>
>> http://kb9rqz.blogspot.com/
>
> I already received a reply from your service provider, but I'll send this
> to
> them also.
>
> As to gay bashing.... You are a liar.  You can't find a post anywhere to
> support your lie.
>
>
Don, you're responding to a forged post from NOVFP.

Lloyd Davies NOVFP.

http://www.qrz.com/detail/N0VFP

http://i12.tinypic.com/2qnv3fr.jpg




From 7974177449980459564
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: 10f7a7,4b89005202ab8b8,start
```

X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gid10f7a7,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-mail
From: marqueer@mail2world.com
Newsgroups:
rec.radio.amateur.boatanchors,alt.usenet.kooks,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: 9 Oct 2006 14:34:42 -0700
Organization: http://groups.google.com
Lines: 12
Message-ID: <1160429682.631111.162040@m7g2000cwm.googlegroups.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
   <1160415187.380043.233770@b28g2000cwb.googlegroups.com>
NNTP-Posting-Host: 152.163.100.131
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160429688 29644 127.0.0.1 (9 Oct 2006 21:34:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 9 Oct 2006 21:34:48 +0000 (UTC)
In-Reply-To: <1160415187.380043.233770@b28g2000cwb.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1; SV1; yie6),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 Turboweb [rtc-tc083 8.4.1], HTTP/1.1 cache-rtc-ac02.proxy.aol.com[98A36483] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=152.163.100.131;
   posting-account=DMZYzw0AAAA2QM8fuFGiE33a7rC06ZWV
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5915
alt.usenet.kooks:247191 rec.radio.amateur.homebrew:7357
rec.radio.amateur.policy:49385 rec.radio.swap:8424

K7ITM wrote:
> Slow wrote:
> > What do you like best about appliance operating?
>
> I particularly like that the free neutron density is quite low, at
> least for most white goods.
>
> When are you going to stop beating your mother?

I LIKE APPLIANCE FUCKING, WHICH IS WHY SC'S ASS IS SO HOT!

From -2094508907614429761

```
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.wightman.ca!
news.wightman.ca.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 09 Oct 2006 17:04:38 -0500
From: "Spokesman" <his@spam.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
Subject: Re: Question for the group. Mainly new hams.
Date: Mon, 9 Oct 2006 18:04:36 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <sb-dncTrEoTqWrfYnZ2dnUVZ_vudnZ2d@wightman.ca>
Lines: 12
NNTP-Posting-Host: 216.110.224.139
X-Trace: sv3-84u4E9xZ+CHCayeZiqJRadpt42yUkMVoufX+Q0sE8dTCvyC/
ETvaujISRtXzKM4Wr3Q8jnWhccaDcro!Ig68cxn6SSg3zYazYKpa/9/
wAtOhW0Qc4l3mKjriWgfOYp7AfkdSzVamRcEY6olvEsMvUjCjNxLY!lBmP9cxoCkEhXuY=
X-Complaints-To: abuse@wightman.ca
X-DMCA-Complaints-To: abuse@wightman.ca
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5916
rec.radio.amateur.homebrew:7358 rec.radio.amateur.policy:49388 rec.radio.swap:8425


"Slow Code" <my.mail@no.spam> wrote in message
news:ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net...
> What do you like best about appliance operating?
>
> SC

The most interseting part of this newgroup is watching Slow Mind
 posting trolls.






From -4764756755877356099
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
```

```
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
From: Slow Code <my.mail@no.spam>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net> <sb-
dncTrEoTqWrfYnZ2dnUVZ_vudnZ2d@wightman.ca>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 17
Message-ID: <woCWg.12121$UG4.9225@newsread2.news.pas.earthlink.net>
Date: Tue, 10 Oct 2006 01:08:44 GMT
NNTP-Posting-Host: 4.227.154.170
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1160442524 4.227.154.170 (Mon, 09 Oct
2006 18:08:44 PDT)
NNTP-Posting-Date: Mon, 09 Oct 2006 18:08:44 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5917
rec.radio.amateur.homebrew:7359 rec.radio.amateur.policy:49404 rec.radio.swap:8429

"Spokesman" <his@spam.net> wrote in
news:sb-dncTrEoTqWrfYnZ2dnUVZ_vudnZ2d@wightman.ca:

>
> "Slow Code" <my.mail@no.spam> wrote in message
> news:ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net...
>> What do you like best about appliance operating?
>>
>> SC
>
> The most interseting part of this newgroup is watching Slow Mind
>  posting trolls.


Pull my finger.

SC



From 5916717715018035586
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news01.roc.ny.POSTED!fd24bd7a!
not-for-mail
From: gwatts <gwatts@frontiernet.net>
User-Agent: Mozilla Thunderbird 1.0.6 (Windows/20050716)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
In-Reply-To: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 7
Message-ID: <nOLWg.2685$Ka1.1928@news01.roc.ny>
X-Complaints-To: abuse-news@frontiernet.net
X-Trace:
52616e646f6d49567942aa9b802daf2fb34eb8727a942746e62a53d7948fa190405099ec8e9fbc618b
5584b1dac468740b39b8456f222081ee3fa09760f173ead1797681459baf58a5bd4b61d9b4832356e5
9128003a37d56f8fcb9e4ad5d88f524a984c38a87ab9832535cc87839639f41c4bd7d118271917acb3
3473beda2e
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Tue, 10 Oct 2006 11:50:43 UTC
Date: Tue, 10 Oct 2006 11:50:43 GMT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5920
rec.radio.amateur.homebrew:7360 rec.radio.amateur.policy:49427 rec.radio.swap:8437

Slow Code wrote:
> What do you like best about appliance operating?

All the crotchety old farts are either off somewhere beep-beep-beeping
away on CW or bitching to each other on the lower half of the 80m phone
band, so it's easy to avoid them and talk to someone who enjoys ham
radio as it is instead of whining about how it was.

From -3669591506474183786
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news2.google.com!news.maxwell.syr.edu!
nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: stop you welching sc
Date: Tue, 10 Oct 2006 10:18:21 -0400

```
Message-ID: <hsani2lf8da7div7libg3qgrodqaq4dq88@4ax.com>
References: <ed1fi25eei6aajmhvaqirh6lqfngjejast@4ax.com>
<BACVg.5952$Y34.8931@newsread4.news.pas.earthlink.net>
<xrmdnSGLcauyJ7rYnZ2dnUVZ_uudnZ2d@rcn.net>
<BACVg.AAB2$Y24.5826@newsread4.news.pas.earthlink.net>
<oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com> <C14D3D06.46962%dbowey@comcast.net>
<754gi3umfvtrol85pqfj3j4ufigl9htkj9@4ax.com>
<m98ii2hofapa8fbcm2asa7sd4b5rat31vh@4ax.com> <C14EF8AB.46BDC%dbowey@comcast.net>
<1137462796.60230@f14g2000cwb.googlegroups.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 45
NNTP-Posting-Date: 10 Oct 2006 13:23:04 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5921
rec.radio.amateur.homebrew:7361 rec.radio.amateur.policy:49483

On Mon, 9 Oct 2006 12:47:39 +0000 (UTC), toddaug555@yahoo.com (N9OGL)
wrote:

>
>On Sun, 08 Oct 2006 18:49:15 -0700, Don Bowey <dbowey@comcast.net> wrote:
>> On 10/8/06 9:03 AM, in article m98ii2hofapa8fbcm2asa7sd4b5rat31vh@4ax.com,
>> "Mark@kb9rqz.net" <Mark@kb9rqz.net> wrote:
>>
>> > On Sun, 8 Oct 2006 15:25:58 +0000 (UTC), Mark@kb9rqz.net
>> > (Mark@kb9rqz.net) wrote:
>> >
>> >>
>> >> On Sat, 07 Oct 2006 11:16:22 -0700, Don Bowey <dbowey@comcast.net> wrote:
>> >>> On 10/7/06 10:42 AM, in article oopfi2hqqo9776jp2niijkv4c0i90amkds@4ax.com,
>> >>> "Mark@kb9rqz.net" <Mark@kb9rqz.net> wrote:
>> >>>
>> >>>> On Sat, 7 Oct 2006 15:28:25 +0000 (UTC), my.mail@no.spam (Slow Code)
>> >>>> wrote:
>> >>>>
>> >>>> stop you welching sc
>> >>>> http://kb9rqz.blogspot.com/
>> >>>
>> >>> I reported your abuse to this and other boards, to your service provider.
>> >>> Hopefully they will shut you down.
>> >> fukc you inner mouth.
>> >> http://kb9rqz.blogspot.com/
>> > stop the foring and iD theft
>> > http://kb9rqz.blogspot.com/
>>
>> I see you have a new path this time.  I sent this one and the routing to the
>> abuse address, too.
>
>Hey Mark, this retard is following you around and harrassing you.  You
>should complain his ISP about him and dont let the bitchwhore get
```

>way with it. He also violate his state laws and you state laws and
>you can file police complaint against the harrassment coward.
ewould do as much food as the same things done about steve and wisemen

but I am not sorried about him
>
>Todd N9OGL
>OMEGA ONE RADIO
>13.556.00 LSB
>88.3 MHz FM
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

```
From 6214421331213549575
X-Google-Thread: 10bf43,5e527bf4b31f44c2
X-Google-Thread: 107ada,5e527bf4b31f44c2
X-Google-Thread: fc8b1,5e527bf4b31f44c2
X-Google-Thread: 108122,5e527bf4b31f44c2
X-Google-Thread: fc2a5,5e527bf4b31f44c2
X-Google-Attributes: gid10bf43,gid107ada,gidfc8b1,gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 10 Oct 2006 10:30:02 -0500
From: "." <none@none.com>
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.amateur.swap,rec.radio.a
mateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radi
o.amateur,alt.ham.radio,rec.ham-radio
References: <k8-dnako2r3s75TYnZ2dnUVZ_sWdnZ2d@comcast.com>
Subject: Re: QRP-ARCI
Date: Tue, 10 Oct 2006 11:29:47 -0400
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <PIqdnYwPt-3nIbbYnZ2dnUVZ_t-dnZ2d@adelphia.com>
Lines: 14
NNTP-Posting-Host: 69.160.167.218
X-Trace:
sv3-3FfKf2BdQbsA+Yhn2jmX4TrsxTOTZh55R4J6z5l4II6X707wP7nKLF5wBccFN9q1QVzfPs6DOOpl6A
J!ipLR8aq+BWmBCGQHuwjdZbPeOSkey4evalXnDJpTKz0xmRxVPU4KUkofbtfTA5jkHDwut0GiY7Zh!
```

```
i48CAXJPuqZdBtqnNIlzpbt4abgT
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.policy:49538
rec.radio.amateur.misc:23867 rec.radio.amateur.boatanchors:5927
rec.radio.amateur.equipment:6614 rec.radio.amateur.homebrew:7362
```

Good riddance! Both John and Karl whose bellicose, fragile egos contributed to the ruin of QRP-L by chasing off brilliant contributing engineers and operators then ultimately forced the exile of QRP-L from its home on listserv.lehigh.edu . Cheers to QRP-ARCI with exercising their Freedom of Disassociation and dumping Beavis-n-Butthead!

```
From -7232244818242214991
X-Google-Thread: 108122,bf432f932027c641,start
X-Google-Thread: fc2a5,bf432f932027c641,start
X-Google-Thread: 107ada,bf432f932027c641,start
X-Google-Thread: 10bf43,bf432f932027c641,start
X-Google-Attributes: gid108122,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: <Mark@kb9rqz.net>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
radio.amateur.policy
References: <452bc60e$0$2995$ec3e2dad@news.usenetmonster.com>
Subject: Re: (THIS IS SO REAL PEOPLE) IM ASKING FOR DONATIONS FOR HEART SURGERY
Date: Tue, 10 Oct 2006 12:45:54 -0400
Organization: Blumpkin Specialist
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Lines: 23
Message-ID: <452bc14c$0$19672$88260bb3@free.teranews.com>
NNTP-Posting-Date: 10 Oct 2006 15:50:36 GMT
X-Complaints-To: abuse@teranews.com
```

```
Xref: g2news2.google.com rec.radio.amateur.equipment:6615
rec.radio.amateur.homebrew:7363 rec.radio.amateur.misc:23868
rec.radio.amateur.policy:49539


"mike" <bphtzywr@bngrxwuq.com> wrote in message
news:452bc60e$0$2995$ec3e2dad@news.usenetmonster.com...
>               hello i always figured this would never happen to me but my
> heart is having serious issuses do to a birth defect (i was born with a
> hole in my heart)and need money to have the surgery to get the hole fix so
> i am asking for donations to help with the cost since i dont have
> insurance so if you have a paypal account please look into your heart and
> donate a dollar or two my paypal emial is mcollins7373@msn.com i need
> around 20,000 dollars usd to have the surgery done. This is my last resort
> for money i have
>               tried goverment agencies family and friends and to my
> dissapointment nothing happened SO PLEASE I NEED HELP thank you so much
> mike collins
>
>               P.S. THANKS FOR ALL THE HATE MAIL WHERE WOULD THE WORLD BE
> WITHOUT HATERS
>
>
geuss waht im trying toget the cheep poeple at teh welfair to pay four my
penis inmplant an it ben like puling teeth to get those two pay.




--
Posted via a free Usenet account from http://www.teranews.com




From -1253151955363534592
X-Google-Thread: f7653,5d3380f44b527416,start
X-Google-Thread: 11480d,5d3380f44b527416,start
X-Google-Thread: 108122,5d3380f44b527416,start
X-Google-Thread: fc2a5,5d3380f44b527416,start
X-Google-Thread: 107ada,5d3380f44b527416,start
X-Google-Attributes: gidf7653,gid11480d,gid108122,gidfc2a5,gid107ada,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news2.google.com!news.maxwell.syr.edu!
nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: <Mark@kb9rqz.net>
Newsgroups:
rec.radio.amateur.digital.misc,rec.radio.amateur.dx,rec.radio.amateur.equipment,re
c.radio.amateur.homebrew,rec.radio.amateur.misc
References: <452ba865$0$4677$ec3e2dad@news.usenetmonster.com>
Subject: Re: IM ASKING FOR DONATIONS FOR HEART SURGERY
Date: Tue, 10 Oct 2006 12:46:49 -0400
Organization: Blumpkin Specialist
X-Priority: 3
X-MSMail-Priority: Normal
```

```
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Lines: 24
Message-ID: <452bc186$0$19615$88260bb3@free.teranews.com>
NNTP-Posting-Date: 10 Oct 2006 15:51:34 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.digital.misc:408
rec.radio.amateur.dx:2566 rec.radio.amateur.equipment:6616
rec.radio.amateur.homebrew:7364 rec.radio.amateur.misc:23869


"mike" <mcollins7373@msn.com> wrote in message
news:452ba865$0$4677$ec3e2dad@news.usenetmonster.com...
>               hello i always figured this would never happen to me but my
> heart is having serious issuses do to a birth defect (i was born with a
> hole in my heart)and need money to have the surgery to get the hole fix so
> i am asking for donations to help with the cost since i dont have
> insurance so if you have a paypal account please look into your heart and
> donate a dollar or two my paypal emial is mcollins7373@msn.com i need
> around 20,000 dollars usd to have the surgery done. This is my last resort
> for money i have tried goverment agencies family and friends and to my
> dissapointment nothing happened SO PLEASE I NEED HELP thank you so much
> mike collins
>
>
>
>
> uW18P>^&K2[o%09E*`x[9K%bwh'bt/QIr8!Vk
> MwoA)75ElpSj?Z[U`)tK`%OLP#m2qLF<MuIR5q.lYC;M:1Lc>: aQcG]SjrTf$

geuss waht im trying toget the cheep poeple at teh welfair to pay four my
penis inmplant an it ben like puling teeth to get those two pay.




--
Posted via a free Usenet account from http://www.teranews.com




From -7350616970537251666
X-Google-Thread: 10bf43,5e527bf4b31f44c2
X-Google-Thread: 107ada,5e527bf4b31f44c2
X-Google-Thread: fc8b1,5e527bf4b31f44c2
X-Google-Thread: 108122,5e527bf4b31f44c2
X-Google-Thread: fc2a5,5e527bf4b31f44c2
X-Google-Attributes: gid10bf43,gid107ada,gidfc8b1,gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 10 Oct 2006 12:29:51 -0500
```

```
Message-ID: <452BD88F.3090309@nospamw2agn.net>
Date: Tue, 10 Oct 2006 13:29:51 -0400
From: W2AGN <w2agn@nospamw2agn.net>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.amateur.swap,rec.radio.a
mateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radi
o.amateur,alt.ham.radio,rec.ham-radio
To: "." <none@none.com>
Subject: Re: QRP-ARCI
References: <k8-dnako2r3s75TYnZ2dnUVZ_sWdnZ2d@comcast.com>
<PIqdnYwPt-3nIbbYnZ2dnUVZ_t-dnZ2d@adelphia.com>
In-Reply-To: <PIqdnYwPt-3nIbbYnZ2dnUVZ_t-dnZ2d@adelphia.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 19
NNTP-Posting-Host: 68.37.243.231
X-Trace: sv3-O4RYJshLXlDXGrSjZpHSbxIqRK8YXu+Jjw5CH0tkk+3qYhc5FXwQ/
CrfSP22W7KMPyDRP9kYpXqEKAe!
BZE4+VaR3j1nGWZ61dr35XZmF9O9O5x676dQnJgVdabYwZgKq7eN5glI2SSVN122NLJqHDB24Tf3!9+x3
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.policy:49542
rec.radio.amateur.misc:23871 rec.radio.amateur.boatanchors:5931
rec.radio.amateur.equipment:6617 rec.radio.amateur.homebrew:7365

. wrote:
> Good riddance!  Both John and Karl whose bellicose, fragile
>
> egos contributed to the ruin of QRP-L by chasing off brilliant
>
> contributing engineers and operators then ultimately forced the
>
> exile of QRP-L from its home on listserv.lehigh.edu .  Cheers to
>
> QRP-ARCI with exercising their Freedom of Disassociation
>
> and dumping Beavis-n-Butthead!
>
>
>
BULL! The credibility of your comments is summed up quite nicely by your
cowardly anonymous email address (none@none.com).

John W2AGN


From -9163638037373245234
```

```
X-Google-Thread: 10bf43,5e527bf4b31f44c2
X-Google-Thread: 107ada,5e527bf4b31f44c2
X-Google-Thread: fc8b1,5e527bf4b31f44c2
X-Google-Thread: 108122,5e527bf4b31f44c2
X-Google-Thread: fc2a5,5e527bf4b31f44c2
X-Google-Attributes: gid10bf43,gid107ada,gidfc8b1,gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 10 Oct 2006 12:30:02 -0500
Date: Tue, 10 Oct 2006 13:30:02 -0400
From: W2AGN <w2agn@nospamw2agn.net>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.amateur.swap,rec.radio.a
mateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radi
o.amateur,alt.ham.radio,rec.ham-radio
Subject: Re: QRP-ARCI
References: <k8-dnako2r3s75TYnZ2dnUVZ_sWdnZ2d@comcast.com>
<PIqdnYwPt-3nIbbYnZ2dnUVZ_t-dnZ2d@adelphia.com>
In-Reply-To: <PIqdnYwPt-3nIbbYnZ2dnUVZ_t-dnZ2d@adelphia.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <U7SdnQmnTtgHRbbYnZ2dnUVZ_tmdnZ2d@comcast.com>
Lines: 19
NNTP-Posting-Host: 68.37.243.231
X-Trace: sv3-KTCLBNjbcGSoE/DI7sPbQ3iJCvOAy375OlCQI1h2rJNrAaAwm5IglkLg+HMsR+
+huPul67ZDcBbpU4K!536Vtq3yKqF8u3kKJhrfenOaP/
oSMVW79STjTt1hESn68OXGJ6e+30WFVX29w1NvR8rmNrtuYcHf!XrGsy2hePpQKy4xGxJe0
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.policy:49543
rec.radio.amateur.misc:23872 rec.radio.amateur.boatanchors:5932
rec.radio.amateur.equipment:6618 rec.radio.amateur.homebrew:7366
```

. wrote:
> Good riddance! Both John and Karl whose bellicose, fragile
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> egos contributed to the ruin of QRP-L by chasing off brilliant
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> contributing engineers and operators then ultimately forced the
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> exile of QRP-L from its home on listserv.lehigh.edu . Cheers to
>
> QRP-ARCI with exercising their Freedom of Disassociation
>
> and dumping Beavis-n-Butthead!

>
>
>
BULL! The credibility of your comments is summed up quite nicely by your
cowardly anonymous email address (none@none.com).

John W2AGN

```
From 2661822032464559989
X-Google-Thread: fc2a5,5411d03ed66f4b84,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-
mail
From: poetry4justice@yahoo.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Stop Bio-TERROR in America: The Government of Torture!
Date: 10 Oct 2006 12:15:03 -0700
Organization: http://groups.google.com
Lines: 192
Message-ID: <1160507703.434461.142800@k70g2000cwa.googlegroups.com>
NNTP-Posting-Host: 165.82.28.22
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
X-Trace: posting.google.com 1160507708 22307 127.0.0.1 (10 Oct 2006 19:15:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 10 Oct 2006 19:15:08 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; (R1
1.3); .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=165.82.28.22;
   posting-account=FphKxA0AAAAQ1W9Fz-9daaYTGo82bXdY
Xref: g2news2.google.com rec.radio.amateur.homebrew:7367
```

AMERICA IN DANGER   of its own   out-of-control   Bio-Terror:
               Is 1984 here? Or cripping...   God help us,
blinded!
Originally Secret Bio-Aerosols are misused to HARM and Torture in
U=2ES.A.
Tempering with pills/ medicine/ treatments to HARM and DISABLE !

       Our government needs TORTURE in U.S.?   See details
below...
       It has your VOTE, support?   Abused...   for power-grab or
vicy-terror!
       Transitory harm and HELL are U.S.-legal?   for
critics-cleansing.

       Did Denny Hastert cover the basterd? And other Washington
crooks?

CRITICS (political/social/cultural) are harassed and secretly persecuted
along with their KIDS in schools/colleges, especially, during tests/exams
(Think: Guantanamo "stress-positions" in the context of 1984-technologies)
Female FBI-informers are coerced and abused!

Bio-Aerosols and aerosolized chemicals are used to cause:
- severe colds/coughs turning into bronchitis, eye irritation
- bacterial pneumonia/other pneumonia, shortness of breath
- surges of severe headaches, migraines, dizziness, etc.
- fainting collapses by symptoms-mimicking aerosols
- severe stomach pains (sharp, burning, nausea, etc)
- chest-wall pains, heart-muscle inflammations/trauma, etc.

WORSE:
- heart attacks under cover of second-hand smocking
- aerosolized chemicals from the death-penalty drugs
- car crashes/accidents by Vertigo-causing aerosols
- car accidents due to the fine/controlled tempering
- liver/organ failure by small-dose toxins (trace-less?)
- cancer-causing/facilitating - months-long assasinations

This "Yushchenko syndrom" CAN destabilize NATIONs
Waste, Fraud, Cronism and Abuse in HomeSec/FBI
Fabrication of Believable Info/Manufacturing of accidents

U=2ES. mail IS polluted in "anthrax-like" manner to HARM critics
Libraries, airplanes, hotels, offices, buses, trains - all polluted!
Remote control, off-jacket/off-book/off-paper pollutant attacks!

A network of Secret Gas-Aerosol Rooms operated in US
(in Philadelphia, Narberth, Lower Merion, PA)
(in Wilmington and Newark, DE)
(in Hampton, Williamsburg and Richmond, VA)
AND ELSEWHERE.... details below...
Freddie May/Freddie Mac likely used to buy silent cooperation
Bio-aerosols used to hurt and simulate panic attacks, etc.!
Soviets locked critics into nut-houses, now WE do the same!
Symptoms-mimicking aerosols do HARM, weak or ill people.

Echo-location/wire-taps/listening used to turn homes into cages!

Say "Stop, I care" - call Senate (202) 224-3121
House of Representatives (202) 225-3121
What IS going on in America? *Print and Post*
Manufacturing of FEAR to grab more Power and Money, of course.
Tragedy IS used to Power Graib, while Fear is molded into profit!

Big Brother spins protection...
And fear is used to clamp.

Democracy needs action!
On which side do you stand?

Looked at this?!! Go to Google/Yahoo newsGroups:
---=

TORTURE IN USA: Secret Aerosol Rooms

US Scientist needs legal help dealing with the secret aerosols rooms (SARs) operated illegally in Philadelphia area, Newark (DE), Hampton and Williamsburg (VA) and other places. Highly volatile aerosols with and without bacterial content cause dry cough, airways a...

Full text was at:
http://buyit.philly.com/findit/search/results.jsp?catId=3Dkrd_philenqda...

This was a new on-line ad placed in Philadelphia Inquirer and Philadelphia Daily News on www.philly.com (see full text below)
It was about the secret aerosols rooms in US. One could find it by searching "secret", say, in the ad section of philly.com.

Democracy can not function effectively without the informed public. As a former NASA Langley scientist working in the area of nanotechnology and nanoscale particles, I have been recently exposed to the establishment of secret gas-aerosol rooms inside of United States, at least in the Mid-Atlantic region (from Philadelphia to Virginia). First, the highly irritant aerosols have surfaced at the NASA Langley Research Center in several safety accidents. Investigations were blocked, probably, because of lack of Congressional approval for such financially-lucrative research at NASA. Later, these aerosols had been encountered outside of NASA in Virginia, Delaware and Pennsylvania
.
This points out to yet another proliferation of originally-sensitive technologies into domestic American life to hurt and harass people without a proper oversight and much control. This amounts to torture, extra-judicial prosecution and authoritarian intimidation tactics. The use of such irritants and the operations of the secret gas-aerosol rooms are gross violations of human and constitutional rights of American citizens and various domestic and international laws.

-------------------Full text of an ad from Philadelphia's philly.com-------------------------
TORTURE IN USA: Secret Aerosol Rooms
US Scientist needs legal help dealing with the secret aerosols rooms (SARs) operated illegally in Philadelphia area, Newark (DE), Hampton and Williamsburg (VA). Highly volatile aerosols with and without bacterial content cause dry cough, airways and eyes irritation, chest pain and inflammation. FBI and Homeland Security associates are likely operators of SARs, while collaborators may be hotel staff and landlords, who get financial/material or other incentives. US citizens and kids are victims.

Torture is any act by which severe pain, whether physical or psychological, is intentionally inflicted on a person as a means of intimidation, deterrence, revenge, punishment, sadism, or information gathering. At times, medicine and medical practitioners have been drawn into the ranks of torturers, either to judge what victims can endure, to apply treatments which will enhance torture, or as torturers in their own right. http://en.wikipedia.org/wiki/Torture

America in Danger!

America in danger -
The vice is NOT impeached.
America in danger -
The public trust is breached.

Big Brother spins protection
And fear is used to clamp.
Democracy needs action!
On which side do you stand?

Which side are you on, boys?
Which side moves you on?
Which side are you on, girls?
Which side did you wrong?
(Chorus after F. Reece)

Your church is burned by haters.
The priests to go to jail?
Your dreams are cheyned by traitors,
But hope still shines through veil.

Dust rooms came back to gas us
With neo-Naz (or Con) embrace...
New immigrants do make US!
And not the SSuper-race...

***

The Government of Torture

Our government needs TORTURE?!
It has your VOTE, and, now, support?
But peace (not vice) needs steady nurture
And trustful words of calm rapport.

Beware of loud, but FALSE, ideas
That flame a thirsty hellish torch.
Protect the old and true ideals
And Constitution's civic urge.

Yes, torture IS a hellish torch -
In bloody hands, a blinded sword,
With Constitution used to forge
All laws on rights as mere absurd!

Remember victim's silent cry
And SEE the Christ in all of us.
Don't let your government to spy
And torture with some bio-dust.

There is NO good use for evil torture!
No matter how the need is spinned
By Nixon's men, as bloody sergeants,
While truth is painfully re-skinned.

V. Haryk-Bukovynsky =A9 VMH

```
From 4547919518942333199
X-Google-Thread: f7653,5d3380f44b527416
X-Google-Thread: 11480d,5d3380f44b527416
X-Google-Thread: 108122,5d3380f44b527416
X-Google-Thread: fc2a5,5d3380f44b527416
X-Google-Thread: 107ada,5d3380f44b527416
X-Google-Attributes: gidf7653,gid11480d,gid108122,gidfc2a5,gid107ada,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!c28g2000cwb.googlegroups.com!not-for-
mail
From: "an old freind" <kb9rqz@hotmail.com>
Newsgroups:
rec.radio.amateur.digital.misc,rec.radio.amateur.dx,rec.radio.amateur.equipment,re
c.radio.amateur.homebrew,rec.radio.amateur.misc
Subject: Re: IM ASKING FOR DONATIONS FOR HEART SURGERY
Date: 10 Oct 2006 12:33:19 -0700
Organization: http://groups.google.com
Lines: 7
Message-ID: <1160508799.718062.133210@c28g2000cwb.googlegroups.com>
References: <452ba865$0$4677$ec3e2dad@news.usenetmonster.com>
   <452bc186$0$19615$88260bb3@free.teranews.com>
NNTP-Posting-Host: 66.82.9.86
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160508804 24883 127.0.0.1 (10 Oct 2006 19:33:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 10 Oct 2006 19:33:24 +0000 (UTC)
In-Reply-To: <452bc186$0$19615$88260bb3@free.teranews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: c28g2000cwb.googlegroups.com; posting-host=66.82.9.86;
   posting-account=u4IZrA0AAAAnZJmD4DLlWGiEpMGb--6i
```

Xref: g2news2.google.com rec.radio.amateur.digital.misc:409
rec.radio.amateur.dx:2567 rec.radio.amateur.equipment:6619
rec.radio.amateur.homebrew:7368 rec.radio.amateur.misc:23879

Mark@kb9rqz.net wrote:
> "mike" <mcollins7373@msn.com> wrote in message
> news:452ba865$0$4677$ec3e2dad@news.usenetmonster.com...
>
id theft is a crime

From -8398519230532416100
X-Google-Thread: 108122,bf432f932027c641
X-Google-Thread: fc2a5,bf432f932027c641
X-Google-Thread: 107ada,bf432f932027c641
X-Google-Thread: 10bf43,bf432f932027c641
X-Google-Attributes: gid108122,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-mail
From: "an old freind" <kb9rqz@hotmail.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy
Subject: Re: (THIS IS SO REAL PEOPLE) IM ASKING FOR DONATIONS FOR HEART SURGERY
Date: 10 Oct 2006 12:33:59 -0700
Organization: http://groups.google.com
Lines: 6
Message-ID: <1160508839.316047.116040@b28g2000cwb.googlegroups.com>
References: <452bc60e$0$2995$ec3e2dad@news.usenetmonster.com>
   <452bc14c$0$19672$88260bb3@free.teranews.com>
NNTP-Posting-Host: 66.82.9.86
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160508843 24966 127.0.0.1 (10 Oct 2006 19:34:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 10 Oct 2006 19:34:03 +0000 (UTC)
In-Reply-To: <452bc14c$0$19672$88260bb3@free.teranews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=66.82.9.86;
   posting-account=u4IZrA0AAAAnZJmD4DLlWGiEpMGb--6i
Xref: g2news2.google.com rec.radio.amateur.equipment:6620
rec.radio.amateur.homebrew:7369 rec.radio.amateur.misc:23880
rec.radio.amateur.policy:49613

Mark@kb9rqz.net wrote:
> "mike" <bphtzywr@bngrxwuq.com> wrote in message

id theft is a crime

```
From 6893013833590504708
X-Google-Thread: fc2a5,c071c04642d3246e,start
X-Google-Thread: 108228,c071c04642d3246e,start
X-Google-Attributes: gidfc2a5,gid108228,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.centurytel.net!
news.centurytel.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 10 Oct 2006 17:24:12 -0500
Newsgroups: rec.radio.amateur.homebrew,alt.ham-radio.marketplace,rec.ham-
radio.swap,rec.radio.amateur.swap
Subject: FS:Yaesu FT-8100R
From: "Rich" <rullery@pioneer-data.com>
Reply-to: rullery@pioneer-data.com
Date: Tue, 10 Oct 2006 22:24:12 GMT
X-Newsreader: News Rover 9.2.0 (http://www.NewsRover.com)
Message-ID: <j8Sdnfq2qNQRgLHYnZ2dnUVZ_radnZ2d@centurytel.net>
Lines: 10
NNTP-Posting-Host: 72.160.68.169
X-Trace:
sv3-1FrWkIaCUhXm5RCBEBJZWMrKuIR2RvXi5VK0F8jofYOq0kWsoq35AaUcgB0z0Yn4VRgx4BR8bZxA0p
T!3u7FKDVuSjGdLr8m6MkHje8cw/fryG9hio0s/25QJFn5xCianMfaeiA7yd2xTXImvyxV9afe0e61!
UJO72u+mHanfQzfyPzkjpnnH4fP6dbFBvVUg
X-Complaints-To: abuse@centurytel.net
X-DMCA-Complaints-To: abuse@centurytel.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7370 alt.ham-
radio.marketplace:1453

Like new excellent condition Never mobile with original box and manual, I
kid you not, this has spent most of its days in the box. S/N: 9M280040
$265.00 Includes shipping in the lower 48
No Paypal... only Postal M/O!!
rullery@pioneer-data.com
```

http://www.eham.net/classifieds/detail/213981

```
From -7744975459141153475
X-Google-Thread: 108122,bf432f932027c641
X-Google-Thread: fc2a5,bf432f932027c641
X-Google-Thread: 107ada,bf432f932027c641
```

```
X-Google-Thread: 10bf43,bf432f932027c641
X-Google-Attributes: gid108122,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-
mail
From: "Douche Bag" <loumaagsucks@hotmail.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
radio.amateur.policy
Subject: Re: (THIS IS SO REAL PEOPLE) IM ASKING FOR DONATIONS FOR HEART SURGERY
Date: 10 Oct 2006 17:40:10 -0700
Organization: http://groups.google.com
Lines: 10
Message-ID: <1160527210.572830.117910@h48g2000cwc.googlegroups.com>
References: <452bc60e$0$2995$ec3e2dad@news.usenetmonster.com>
   <452bc14c$0$19672$88260bb3@free.teranews.com>
   <1160508839.316047.116040@b28g2000cwb.googlegroups.com>
NNTP-Posting-Host: 68.238.161.138
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160527215 4651 127.0.0.1 (11 Oct 2006 00:40:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 11 Oct 2006 00:40:15 +0000 (UTC)
In-Reply-To: <1160508839.316047.116040@b28g2000cwb.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h48g2000cwc.googlegroups.com; posting-host=68.238.161.138;
   posting-account=lz0K7A0AAAA0k0bp6MTD4cusVBwJX_LS
Xref: g2news2.google.com rec.radio.amateur.equipment:6622
rec.radio.amateur.homebrew:7371 rec.radio.amateur.misc:23888
rec.radio.amateur.policy:49633

I need donations for my penis reduction.I was born with a huge schloong
and it's very difficult to carry around in my pants. Please help me
with my pain. I need this reduction operation now.

an old freind wrote:
> Mark@kb9rqz.net wrote:
> > "mike" <bphtzywr@bngrxwuq.com> wrote in message
>
> id theft is a crime



From -235142824112148837
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!
stamper.news.pas.earthlink.net!newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!
not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
From: Slow Code <my.mail@no.spam>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 17
Message-ID: <28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
Date: Wed, 11 Oct 2006 00:44:46 GMT
NNTP-Posting-Host: 4.254.226.183
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1160527486 4.254.226.183 (Tue, 10 Oct
2006 17:44:46 PDT)
NNTP-Posting-Date: Tue, 10 Oct 2006 17:44:46 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5938
rec.radio.amateur.homebrew:7372 rec.radio.amateur.policy:49642 rec.radio.swap:8467

gwatts <gwatts@frontiernet.net> wrote in
news:nOLWg.2685$Ka1.1928@news01.roc.ny:

> Slow Code wrote:
>> What do you like best about appliance operating?
>
> All the crotchety old farts are either off somewhere beep-beep-beeping
> away on CW or bitching to each other on the lower half of the 80m phone
> band, so it's easy to avoid them and talk to someone who enjoys ham
> radio as it is instead of whining about how it was.
>

Big Ten-Four on that Good Buddy.



SC



From 4763943793220965739
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!
nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
```

```
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: Tue, 10 Oct 2006 21:27:51 -0400
Message-ID: <34ioi2lt0ek3tklug9p3rf8s5lrc09i0ng@4ax.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 21
NNTP-Posting-Date: 11 Oct 2006 00:32:27 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5941
rec.radio.amateur.homebrew:7373 rec.radio.amateur.policy:49651 rec.radio.swap:8475

On Wed, 11 Oct 2006 00:44:46 GMT, Slow Code <my.mail@no.spam> wrote:

>gwatts <gwatts@frontiernet.net> wrote in
>news:nOLWg.2685$Ka1.1928@news01.roc.ny:
>
>> Slow Code wrote:
>>> What do you like best about appliance operating?
>>
>> All the crotchety old farts are either off somewhere beep-beep-beeping
>> away on CW or bitching to each other on the lower half of the 80m phone
>> band, so it's easy to avoid them and talk to someone who enjoys ham
>> radio as it is instead of whining about how it was.
>>
>
>Big Ten-Four on that Good Buddy.
SC Poster boy for No Code
>
>
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From 8006050418594862552
X-Google-Thread: 108122,bf432f932027c641
X-Google-Thread: fc2a5,bf432f932027c641
X-Google-Thread: 107ada,bf432f932027c641
X-Google-Thread: 10bf43,bf432f932027c641
X-Google-Attributes: gid108122,gidfc2a5,gid107ada,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-
mail
From: "an old friend" <kb9rqz@hotmail.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.
radio.amateur.policy
Subject: Re: (THIS IS SO REAL PEOPLE) IM ASKING FOR DONATIONS FOR HEART SURGERY
Date: 10 Oct 2006 18:42:54 -0700
Organization: http://groups.google.com
Lines: 5
Message-ID: <1160530974.778194.99840@e3g2000cwe.googlegroups.com>
References: <452bc60e$0$2995$ec3e2dad@news.usenetmonster.com>
   <452bc14c$0$19672$88260bb3@free.teranews.com>
   <1160508839.316047.116040@b28g2000cwb.googlegroups.com>
   <1160527210.572830.117910@h48g2000cwc.googlegroups.com>
NNTP-Posting-Host: 66.82.9.86
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160530979 13561 127.0.0.1 (11 Oct 2006 01:42:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 11 Oct 2006 01:42:59 +0000 (UTC)
In-Reply-To: <1160527210.572830.117910@h48g2000cwc.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=66.82.9.86;
   posting-account=u4IZrA0AAAAnZJmD4DLlWGiEpMGb--6i
Xref: g2news2.google.com rec.radio.amateur.equipment:6625
rec.radio.amateur.homebrew:7374 rec.radio.amateur.misc:23904
rec.radio.amateur.policy:49658


Douche Bag wrote:
>
help ham radio SC turn in your license




From -1271585756407467607
X-Google-Thread: f7653,5d3380f44b527416
X-Google-Thread: 11480d,5d3380f44b527416
X-Google-Thread: 108122,5d3380f44b527416
X-Google-Thread: fc2a5,5d3380f44b527416
X-Google-Thread: 107ada,5d3380f44b527416
X-Google-Attributes: gidf7653,gid11480d,gid108122,gidfc2a5,gid107ada,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!newspeer.tds.net!
216.170.153.140.MISMATCH!newsreading01.news.tds.net!53ab2750!not-for-mail
Reply-To: "steve  carey" <scarey@tds.net>
From: "steve  carey" <scarey@tds.net>
Newsgroups:
rec.radio.amateur.digital.misc,rec.radio.amateur.dx,rec.radio.amateur.equipment,re
```

```
c.radio.amateur.homebrew,rec.radio.amateur.misc
References: <452ba865$0$4677$ec3e2dad@news.usenetmonster.com>
<452bc186$0$19615$88260bb3@free.teranews.com>
Subject: Re: IM ASKING FOR DONATIONS FOR HEART SURGERY
Lines: 32
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <gP1Xg.5409$5i7.5291@newsreading01.news.tds.net>
Date: Wed, 11 Oct 2006 08:20:28 GMT
NNTP-Posting-Host: 69.21.209.218
X-Complaints-To: news@tds.net
X-Trace: newsreading01.news.tds.net 1160554828 69.21.209.218 (Wed, 11 Oct 2006
03:20:28 CDT)
NNTP-Posting-Date: Wed, 11 Oct 2006 03:20:28 CDT
Organization: tds.net
Xref: g2news2.google.com rec.radio.amateur.digital.misc:411
rec.radio.amateur.dx:2568 rec.radio.amateur.equipment:6626
rec.radio.amateur.homebrew:7375 rec.radio.amateur.misc:23914

it goes along with the hole in your head
<Mark@kb9rqz.net> wrote in message
news:452bc186$0$19615$88260bb3@free.teranews.com...
>
> "mike" <mcollins7373@msn.com> wrote in message
> news:452ba865$0$4677$ec3e2dad@news.usenetmonster.com...
>>               hello i always figured this would never happen to me but my
>> heart is having serious issuses do to a birth defect (i was born with a
>> hole in my heart)and need money to have the surgery to get the hole fix
>> so i am asking for donations to help with the cost since i dont have
>> insurance so if you have a paypal account please look into your heart and
>> donate a dollar or two my paypal emial is mcollins7373@msn.com i need
>> around 20,000 dollars usd to have the surgery done. This is my last
>> resort for money i have tried goverment agencies family and friends and
>> to my dissapointment nothing happened SO PLEASE I NEED HELP thank you so
>> much mike collins
>>
>>
>>
>>
>> uW18P>^&K2[o%09E*`x[9K%bwh'bt/QIr8!Vk
>> MwoA)75ElpSj?Z[U`)tK`%OLP#m2qLF<MuIR5q.lYC;M:1Lc>: aQcG]SjrTf$
>
> geuss waht im trying toget the cheep poeple at teh welfair to pay four my
> penis inmplant an it ben like puling teeth to get those two pay.
>
>
> --
> Posted via a free Usenet account from http://www.teranews.com
>
```

```
From -8655909263038288353
X-Google-Thread: fc2a5,5d78b1ed5280a702,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!aotearoa.belnet.be!news.belnet.be!news.brutele.be!not-for-mail
From: "pierard laurent" <pierard_laurent@hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: hello from belgium
Date: Wed, 11 Oct 2006 17:56:34 +0200
Organization: Brutele sc - Rue de Naples 29 - 1050 Bruxelles - Belgique
Lines: 9
Message-ID: <egj46h$jvn$1@news.brutele.be>
NNTP-Posting-Host: host-213-213-218-138.brutele.be
X-Trace: news.brutele.be 1160582161 20471 213.213.218.138 (11 Oct 2006 15:56:01
GMT)
X-Complaints-To: usenet@news.brutele.be
NNTP-Posting-Date: Wed, 11 Oct 2006 15:56:01 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Xref: g2news2.google.com rec.radio.amateur.homebrew:7376

hello all,

i am from belgium
73s all de on3vhf


www.on3vhf.be.tf





From 3718750604396395452
X-Google-Thread: fc2a5,e66678472e6cb7c0,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-
mail
From: Lathi.Tan@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: effect of cascading LNAs
Date: 11 Oct 2006 10:11:00 -0700
Organization: http://groups.google.com
Lines: 5
Message-ID: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
NNTP-Posting-Host: 24.106.53.104
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160586665 29646 127.0.0.1 (11 Oct 2006 17:11:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 11 Oct 2006 17:11:05 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
Maxthon; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=24.106.53.104;
   posting-account=vd4nKg0AAAByIqrBQ3_AV2sUtNpk8Ukc
Xref: g2news2.google.com rec.radio.amateur.homebrew:7377

I am wondering what's the bad effect of cascading a lot of low noise
amplifiers? It seems that if I devide 90dB into 4 LNAs I will have much
less noise figure. Can I use 5 LNAs in series? Any disadvantage about
this way? Thanks.



From 2263305281633442188
X-Google-Thread: fc2a5,e66678472e6cb7c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc02.POSTED!d89a2db8!not-for-mail
From: "Dale Parfitt" <par@parelectronics.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
Subject: Re: effect of cascading LNAs
Lines: 18
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <15aXg.18227$wE5.8051@trnddc02>
Date: Wed, 11 Oct 2006 17:45:33 GMT
NNTP-Posting-Host: 63.19.190.183
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc02 1160588733 63.19.190.183 (Wed, 11 Oct 2006 13:45:33 EDT)
NNTP-Posting-Date: Wed, 11 Oct 2006 13:45:33 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7378


<Lathi.Tan@gmail.com> wrote in message
news:1160586660.436290.243880@e3g2000cwe.googlegroups.com...
>I am wondering what's the bad effect of cascading a lot of low noise
> amplifiers? It seems that if I devide 90dB into 4 LNAs I will have much
> less noise figure. Can I use 5 LNAs in series? Any disadvantage about
> this way? Thanks.
>
```

If your 1st LNA has the lowest noise figure and sufficient gain, it will set the noise floor.
You can work the cascaded amplifier equations and see what you will need.
90dB seems like a LOT of front end gain- unless this is very narrow band, I would be very concerned about overload resulting in all kinds of in band garbage.

Dale W4OP

```
From -5586927489231617512
X-Google-Thread: fc2a5,e66678472e6cb7c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: Lathi.Tan@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: effect of cascading LNAs
Date: 11 Oct 2006 11:38:03 -0700
Organization: http://groups.google.com
Lines: 27
Message-ID: <1160591883.323566.104340@m7g2000cwm.googlegroups.com>
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
   <15aXg.18227$wE5.8051@trnddc02>
NNTP-Posting-Host: 24.106.53.104
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160591888 29576 127.0.0.1 (11 Oct 2006 18:38:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 11 Oct 2006 18:38:08 +0000 (UTC)
In-Reply-To: <15aXg.18227$wE5.8051@trnddc02>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
Maxthon; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=24.106.53.104;
   posting-account=vd4nKg0AAAByIqrBQ3_AV2sUtNpk8Ukc
Xref: g2news2.google.com rec.radio.amateur.homebrew:7379
```

What do you mean by overload? How come there is too much garbage as long as my NF is low?

I actually need 143dB gain. What kind of problem I will have if I just use 6 stages of amplifiers, like 1stage(20dB, NF2.4dB) 2nd stage(30dB, NF3db), 3rd stage(43dB, NF 6.2dB), 4th stage(43dB NF6.2dB). It seems my NFtotal is pretty low. What's my problem?

Thanks.

Dale Parfitt wrote:

```
> <Lathi.Tan@gmail.com> wrote in message
> news:1160586660.436290.243880@e3g2000cwe.googlegroups.com...
> >I am wondering what's the bad effect of cascading a lot of low noise
> > amplifiers? It seems that if I devide 90dB into 4 LNAs I will have much
> > less noise figure. Can I use 5 LNAs in series? Any disadvantage about
> > this way? Thanks.
> >
> If your 1st LNA has the lowest noise figure and sufficient gain, it will set
> the noise floor.
> You can work the cascaded amplifier equations and see what you will need.
> 90dB seems like a LOT of front end gain- unless this is very narrow band, I
> would be very concerned about overload resulting in all kinds of in band
> garbage.
>
> Dale W4OP




From -4167667696819724256
X-Google-Thread: fc2a5,e66678472e6cb7c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.trueband.net!
news.trueband.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 11 Oct 2006 13:51:54 -0500
From: Wes Stewart <n7ws*@*yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: effect of cascading LNAs
Date: Wed, 11 Oct 2006 11:52:33 -0700
Message-ID: <m7fqi2d746s2ucmlhbkfsnqdfrdbaajhnj@4ax.com>
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
<15aXg.18227$wE5.8051@trnddc02>
<1160591883.323566.104340@m7g2000cwm.googlegroups.com>
X-Newsreader: Forte Free Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 15
NNTP-Posting-Host: 4.240.247.106
X-Trace: sv3-
lwYbNceEamD7E2hC9r72iho9hr5S8UVjS8JsqsaETUpSu5mX4W5LXsjxJ59p5rZFEu44o0cU+6KcoNV!
IbQy/Hbo7ohJL1BcQRzqJ8Xf2L2/GaGYQD8xhJlP3oJRY76iQfUcYnv4xKFoflg1XDTyFAyvjUCp!
mvmlLQzgt+nLyf/+AdGZ2ShvslwZkQ==
X-Complaints-To: abuse@trueband.net
X-DMCA-Complaints-To: abuse@trueband.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7380

On 11 Oct 2006 11:38:03 -0700, Lathi.Tan@gmail.com wrote:
```

>What do you mean by overload? How come there is too much garbage as
>long as my NF is low?
>
>I actually need 143dB gain. What kind of problem I will have if I just
>use 6 stages of amplifiers, like 1stage(20dB, NF2.4dB) 2nd stage(30dB,
>NF3db), 3rd stage(43dB, NF 6.2dB), 4th stage(43dB NF6.2dB). It seems my
>NFtotal is pretty low. What's my problem?

Your problem is you don't know what you're doing.

What frequency is this oscillator going to run at?

```
From -1592727395419795137
X-Google-Thread: fc2a5,e66678472e6cb7c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i3g2000cwc.googlegroups.com!not-for-
mail
From: Lathi.Tan@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: effect of cascading LNAs
Date: 11 Oct 2006 12:13:20 -0700
Organization: http://groups.google.com
Lines: 20
Message-ID: <1160593999.986847.117750@i3g2000cwc.googlegroups.com>
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
   <15aXg.18227$wE5.8051@trnddc02>
   <1160591883.323566.104340@m7g2000cwm.googlegroups.com>
   <m7fqi2d746s2ucmlhbkfsnqdfrdbaajhnj@4ax.com>
NNTP-Posting-Host: 24.106.53.104
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160594005 16493 127.0.0.1 (11 Oct 2006 19:13:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 11 Oct 2006 19:13:25 +0000 (UTC)
In-Reply-To: <m7fqi2d746s2ucmlhbkfsnqdfrdbaajhnj@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
Maxthon; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i3g2000cwc.googlegroups.com; posting-host=24.106.53.104;
   posting-account=vd4nKg0AAAByIqrBQ3_AV2sUtNpk8Ukc
Xref: g2news2.google.com rec.radio.amateur.homebrew:7381
```

I asked what I don't know. I am expecting a helpful answer.

The frequency is 70MHz.

Wes Stewart wrote:
> On 11 Oct 2006 11:38:03 -0700, Lathi.Tan@gmail.com wrote:
>
> >What do you mean by overload? How come there is too much garbage as
> >long as my NF is low?
> >
> >I actually need 143dB gain. What kind of problem I will have if I just
> >use 6 stages of amplifiers, like 1stage(20dB, NF2.4dB) 2nd stage(30dB,
> >NF3db), 3rd stage(43dB, NF 6.2dB), 4th stage(43dB NF6.2dB). It seems my
> >NFtotal is pretty low. What's my problem?
>
> Your problem is you don't know what you're doing.
>
> What frequency is this oscillator going to run at?

From 5575948913368363159
X-Google-Thread: fc2a5,e66678472e6cb7c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
<15aXg.18227$wE5.8051@trnddc02>
<1160591883.323566.104340@m7g2000cwm.googlegroups.com>
<m7fqi2d746s2ucmlhbkfsnqdfrdbaajhnj@4ax.com>
<1160593999.986847.117750@i3g2000cwc.googlegroups.com>
Subject: Re: effect of cascading LNAs
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <nAbXg.1018204$084.97115@attbi_s22>
NNTP-Posting-Host: 12.215.38.98
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1160594835 12.215.38.98 (Wed, 11 Oct 2006 19:27:15 GMT)
NNTP-Posting-Date: Wed, 11 Oct 2006 19:27:15 GMT
Organization: AT&T ASP.att.net
Date: Wed, 11 Oct 2006 19:27:15 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7383

>I asked what I don't know. I am expecting a helpful answer.
>
> The frequency is 70MHz.
>
>

> As Dale gave you an answer that is correct, you might reason with him, I
> recognize that the last answer wasn't very helpful.

Basically, with 20 dB of gain, your noise figure will be well established with the NF of that first stage of 2.4 dB. It will actually deteriorate a tenth of a dB or so for the further stages down the line, but not very much. The second stage could have as great a noise figure as 10 dB and the total would only deteriorate to 2.62 dB

If you need additional gain, it's best obtained after some selectivity. 140 plus dB of gain on a single frequency is going to be VERY difficult to tame and keep from oscillation in it's own right.

W4ZCB

From -139845799621003765
X-Google-Thread: fc2a5,e66678472e6cb7c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s22.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
<15aXg.18227$wE5.8051@trnddc02>
<1160591883.323566.104340@m7g2000cwm.googlegroups.com>
<m7fqi2d746s2ucmlhbkfsnqdfrdbaajhnj@4ax.com>
<1160593999.986847.117750@i3g2000cwc.googlegroups.com>
Subject: Re: effect of cascading LNAs
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <nAbXg.1018203$084.7002@attbi_s22>
NNTP-Posting-Host: 12.215.38.98
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1160594835 12.215.38.98 (Wed, 11 Oct 2006 19:27:15 GMT)
NNTP-Posting-Date: Wed, 11 Oct 2006 19:27:15 GMT
Organization: AT&T ASP.att.net
Date: Wed, 11 Oct 2006 19:27:15 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7382

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W4ZCB

```
From -2711517082216726090
X-Google-Thread: fc2a5,e66678472e6cb7c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: Lathi.Tan@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: effect of cascading LNAs
Date: 11 Oct 2006 12:46:32 -0700
Organization: http://groups.google.com
Lines: 30
Message-ID: <1160595992.913074.73420@m7g2000cwm.googlegroups.com>
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
   <15aXg.18227$wE5.8051@trnddc02>
   <1160591883.323566.104340@m7g2000cwm.googlegroups.com>
   <m7fqi2d746s2ucmlhbkfsnqdfrdbaajhnj@4ax.com>
   <1160593999.986847.117750@i3g2000cwc.googlegroups.com>
   <nAbXg.1018203$084.7002@attbi_s22>
NNTP-Posting-Host: 24.106.53.104
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160595998 7277 127.0.0.1 (11 Oct 2006 19:46:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 11 Oct 2006 19:46:38 +0000 (UTC)
In-Reply-To: <nAbXg.1018203$084.7002@attbi_s22>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
Maxthon; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=24.106.53.104;
   posting-account=vd4nKg0AAAByIqrBQ3_AV2sUtNpk8Ukc
Xref: g2news2.google.com rec.radio.amateur.homebrew:7384
```

It seems that I know the Friis equation.

I am asking because it seems difficult, and maybe impossible. I've
never heard of this high gain before, but I dont' know why I cann't
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exactly the problem is: you see the NF is nice, and I can get the SNR
if the band is narrow enough.

It also seems that I "don't know what I'm doing". So please explain a
little if you want me to understand. Thanks.

Harold E. Johnson wrote:
> >I asked what I don't know. I am expecting a helpful answer.
> >
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> >
> >
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>
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>
> If you need additional gain, it's best obtained after some selectivity. 140
> plus dB of gain on a single frequency is going to be VERY difficult to tame
> and keep from oscillation in it's own right.
>
> W4ZCB

From 2271021887017800898
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news02.roc.ny.POSTED!fd24bd7a!not-for-mail
From: gwatts <gwatts@frontiernet.net>
User-Agent: Mozilla Thunderbird 1.0.6 (Windows/20050716)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>

```
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
In-Reply-To: <28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 20
Message-ID: <Z4cXg.2828$ya1.2518@news02.roc.ny>
X-Complaints-To: abuse-news@frontiernet.net
X-Trace:
52616e646f6d4956490a539f226c80f2598f08cb06bad55823b1fad3e5a51c692f864284a47a8cdd52
eac7b9b5093fdc140b81fcd00c71de7dd0758563cad820c2ec0c085a91eeb6d9c8cf9ca5505f7ed4a2
e5269c8db7e2964a292a4728b3e7a122513a772e7c57d1ed814e1f04e59fa8149eb71f583035d59c99
7ee3bdb140
X-Abuse-Info: Please be sure to forward ALL headers so that we may process your
complaint properly.
NNTP-Posting-Date: Wed, 11 Oct 2006 20:02:01 UTC
Date: Wed, 11 Oct 2006 20:02:01 GMT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5947
rec.radio.amateur.homebrew:7385 rec.radio.amateur.policy:49677 rec.radio.swap:8499

Slow Code wrote:
> gwatts <gwatts@frontiernet.net> wrote in
> news:nOLWg.2685$Ka1.1928@news01.roc.ny:
>
>
>>Slow Code wrote:
>>
>>>What do you like best about appliance operating?
>>
>>All the crotchety old farts are either off somewhere beep-beep-beeping
>>away on CW or bitching to each other on the lower half of the 80m phone
>>band, so it's easy to avoid them and talk to someone who enjoys ham
>>radio as it is instead of whining about how it was.
>>
>
>
> Big Ten-Four on that Good Buddy.

It sounds like you run a lot of 11m, not surprising considering how much
you whine, and it's not alternator whine.


From 6795251017557138553
X-Google-Thread: fc2a5,e66678472e6cb7c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!
attbi_s22.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
<15aXg.18227$wE5.8051@trnddc02>
<1160591883.323566.104340@m7g2000cwm.googlegroups.com>
```

```
<m7fqi2d746s2ucmlhbkfsnqdfrdbaajhnj@4ax.com>
<1160593999.986847.117750@i3g2000cwc.googlegroups.com>
<nAbXg.1018203$084.7002@attbi_s22>
<1160595992.913074.73420@m7g2000cwm.googlegroups.com>
Subject: Re: effect of cascading LNAs
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <XfcXg.1018236$084.652609@attbi_s22>
NNTP-Posting-Host: 12.215.38.98
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s22 1160597623 12.215.38.98 (Wed, 11 Oct 2006 20:13:43 GMT)
NNTP-Posting-Date: Wed, 11 Oct 2006 20:13:43 GMT
Organization: AT&T ASP.att.net
Date: Wed, 11 Oct 2006 20:13:43 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7386
```

<Lathi.Tan@gmail.com> wrote in message
news:1160595992.913074.73420@m7g2000cwm.googlegroups.com...

> It seems that I know the Friis equation.
>
> I am asking because it seems difficult, and maybe impossible. I've
> never heard of this high gain before, but I dont' know why I cann't
> stack amplifiers and I am looking for somebody who can tell me what
> exactly the problem is: you see the NF is nice, and I can get the SNR
> if the band is narrow enough.
>
> It also seems that I "don't know what I'm doing". So please explain a
> little if you want me to understand. Thanks.

Well, how about a little additional information? What is it that you're trying to accomplish? A gain of 140 dB would amplify a signal of strength 8 x 10^-10 Watts (About the equivalent of a received signal of 10 dB over "S"-9) to a kiloWatt. I don't think you're trying to do that, so what convinces you that you NEED 140 dB of gain?

Regards
W4ZCB

```
From 8989761093974489282
X-Google-Thread: fc2a5,e66678472e6cb7c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: Lathi.Tan@gmail.com
```

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: effect of cascading LNAs
Date: 11 Oct 2006 13:33:26 -0700
Organization: http://groups.google.com
Lines: 32
Message-ID: <1160598806.809126.280010@m7g2000cwm.googlegroups.com>
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
   <15aXg.18227$wE5.8051@trnddc02>
   <1160591883.323566.104340@m7g2000cwm.googlegroups.com>
   <m7fqi2d746s2ucmlhbkfsnqdfrdbaajhnj@4ax.com>
   <1160593999.986847.117750@i3g2000cwc.googlegroups.com>
   <nAbXg.1018203$084.7002@attbi_s22>
   <1160595992.913074.73420@m7g2000cwm.googlegroups.com>
   <XfcXg.1018236$084.652609@attbi_s22>
NNTP-Posting-Host: 24.106.53.104
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160598812 28980 127.0.0.1 (11 Oct 2006 20:33:32 GMT)
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   posting-account=vd4nKg0AAAByIqrBQ3_AV2sUtNpk8Ukc
Xref: g2news2.google.com rec.radio.amateur.homebrew:7387

I'm dealing with a DSSS current signal at 70MHz. Before I start designing anything, I am calculating the signal amplitude. It's going to be 5nArms. If I have a 50ohm resistor, it's -153dBm. I'd be happy to know any solid proof that it's not doable because it's my job now.

In theory DSSS signal can work under noise level, but can it be so much?

Harold E. Johnson wrote:
> <Lathi.Tan@gmail.com> wrote in message
> news:1160595992.913074.73420@m7g2000cwm.googlegroups.com...
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> Regards
> W4ZCB

From -9468601776182415l5
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X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-mail
From: Lathi.Tan@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: effect of cascading LNAs
Date: 11 Oct 2006 13:41:07 -0700
Organization: http://groups.google.com
Lines: 36
Message-ID: <1160599267.891583.12910@m7g2000cwm.googlegroups.com>
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
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   posting-account=vd4nKg0AAAByIqrBQ3_AV2sUtNpk8Ukc
Xref: g2news2.google.com rec.radio.amateur.homebrew:7388

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From -4870368422976120700
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From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
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Lines: 27
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Organization: AT&T ASP.att.net
Date: Wed, 11 Oct 2006 20:56:55 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7389

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Well, I have no idea of what a DSSS signal is, so I can't be of much help. Whatever it is, it better be in a very narrow bandwidth. At that signal level, it will take a 50 Hz bandwidth to achieve minimum discernable signal (MDS) with a front end NF of 2.4 dB.

If you're talking about using autocorrelation to bring it up out of the noise, all bets are off depending on how much time you can sacrifice.

If you're planning on bringing this signal to -10 dBm, better prepare for a lot of shielding and decoupling, not to mention filtering and frequency stability at 70 MHz center frequency.

W4ZCB

From -4138166358051539884
X-Google-Thread: fc2a5,e66678472e6cb7c0
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X-Google-Language: ENGLISH,ASCII-7-bit
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From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
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<XfcXg.1018236$084.652609@attbi_s22>
<1160598806.809126.280010@m7g2000cwm.googlegroups.com>
<1160599267.891583.12910@m7g2000cwm.googlegroups.com>
Subject: Re: effect of cascading LNAs
Lines: 12
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X-RFC2646: Format=Flowed; Original
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Organization: AT&T ASP.att.net
Date: Wed, 11 Oct 2006 21:08:15 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7390

<Lathi.Tan@gmail.com> wrote in message
news:1160599267.891583.12910@m7g2000cwm.googlegroups.com...
>I googled and saw GPS signal is -150dBm. So it's detectable, but it's
> much higher frequency. What if it's 70Mhz?

Well, the GPS signal is detected all right, but they sure don't put all
their gain at the signal frequency.

W4ZCB

From -5939929949331560386
X-Google-Thread: fc2a5,e66678472e6cb7c0
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From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: effect of cascading LNAs
Date: Wed, 11 Oct 2006 21:46:44 +0000 (UTC)
Organization: Me?
Lines: 62
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Xref: g2news2.google.com rec.radio.amateur.homebrew:7392

On 11 Oct 2006 13:41:07 -0700, Lathi.Tan@gmail.com wrote in
<1160599267.891583.12910@m7g2000cwm.googlegroups.com>:

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```

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It probably isn't going to make a lot of difference whether it's 25 cm. or 40 cm; the principles are the same for DSSS decoding.

GPS signals make heavy use of PN sequences so that they can be detected using autocorrelation techniques. They're down below the terrestrial noise threshold, and require autocorrelation techniques for synchronization and detection. But you probably know that already. This probably will be true of your solution as well, and especially so at those power levels.

If you're going to be receiving and detecting signals at those power levels, you'll need to use something other than *just* amplification to pull the modulation out.

One presumes you'll have a known short spreading sequence that you can use to try to sync up on the signal, or (if it's a longer sequence) that you'll have a rough idea of the code epoch, so that you can try to sneak up on it from behind, as it were.

The point here is that a _lot_ of the process gain comes from the autocorrelation and despreading processes. You may not need all that analog gain. Getting it up to ... something like -30 dBm or -15 dBm may be enough -- or even overkill.

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From 2291414018241822582
X-Google-Thread: fc2a5,e66678472e6cb7c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-mail
From: "MadEngineer" <glenn.b.dixon@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: effect of cascading LNAs
Date: 11 Oct 2006 15:05:36 -0700
Organization: http://groups.google.com
Lines: 76
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   posting-account=EvBMNw0AAABX-Et6w0086s4DXqrY-API
Xref: g2news2.google.com rec.radio.amateur.homebrew:7393
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> If you're planning on bringing this signal to -10 dBm, better prepare for a
> lot of shielding and decoupling, not to mention filtering and frequency
> stability at 70 MHz center frequency.
>
> W4ZCB

Some comments:

DSSS is direct sequence spread spectrum. It is wideband on the front
end.

It is probably not a valid comparison to compare DSSS detection levels
with GPS. GPS encodes much redundancy into the signal to enhance S/N,
and unless the DSSS encoder does something similar we can't use the
same detection level numbers. To say DSSS works under the noise level
assumes some gain due to encoding, and probably also assumes an
information bandwidth much less than the spread spectrum bandwidth.

Here are the main reasons you can't cascade a lot of gain at the operating frequency. Others have mentioned this--so this is just a summary with clarification:

1. Stability. A lot of gain at a single frequency is difficult to do without causing stability problems. Even careful shielding between stages doesn't`always work. At 70 Mhz, about 40 dB is the best I can do reliably and even then I would use two separate metal enclosures, each with 20 dB of gain. Above, say, 60 dB all kinds of things go wrong--enclosures don't shield well enough, power supplies don't decouple enough, interconnects talk to each other, etc. With single-chip MMICs and LNAs it's really easy to build something and see for yourself.

2. Intermodulation and blocking. Any unwanted signal at the antenna would be amplified--assume you are trying to detect a -150 dBm signal and someone in the house has a wireless headphone, which transmits at about 72 MHz. With 140 dB of gain your amplifiers would saturate completely and pass none of the wanted signal.

Radio design uses a careful balance between gain, mixing, AGC and filtering to minimize stability and overload problems. For narrowband signals you want to apply selectivity as soon in the signal train as you can. For spread spectrum you do the same: a filter as narrow as you can get it and still pass the spectrum, then your despreader at the lowest level you can make it, then a narrow band filter that just passes the information, and finally more gain and the detector.

3. Components
  Some components such as crystal filters and mixers work better at lower signal levels before a lot of gain is applied. This is really just an extension of reason 2.

Hope this helps.

Glenn Dixon AC7ZN

From 7165435584891442552
X-Google-Thread: fc2a5,e66678472e6cb7c0
X-Google-Attributes: gidfc2a5,public
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Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-mail
From: Lathi.Tan@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: effect of cascading LNAs
Date: 11 Oct 2006 15:10:04 -0700
Organization: http://groups.google.com
Lines: 70

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Xref: g2news2.google.com rec.radio.amateur.homebrew:7394

Well, I may have to go back to the old question, because it's not
exactly a DSSS depending on cross correlation. What are the possible
bad effects when I keep connecting amplifiers? Shorter bandwidth?
Smaller IP3? There should be something I don't know.


Mike Andrews wrote:
> On 11 Oct 2006 13:41:07 -0700, Lathi.Tan@gmail.com wrote in
<1160599267.891583.12910@m7g2000cwm.googlegroups.com>:
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> > Lathi.Tan@gmail.com wrote:
> >> I'm dealing with a DSSS current signal at 70MHz. Before I start
> >> designing anything, I am calculating the signal amplitude. It's going
> >> to be 5nArms. If I have a 50ohm resistor, it's -153dBm. I'd be happy to
> >> know any solid proof that it's not doable because it's my job now.
> >>
> >> In theory DSSS signal can work under noise level, but can it be so
> >> much?
> >>
> >>
> >> Harold E. Johnson wrote:
> >> > <Lathi.Tan@gmail.com> wrote in message
> >> > news:1160595992.913074.73420@m7g2000cwm.googlegroups.com...
> >> > > It seems that I know the Friis equation.
> >> > >
> >> > > I am asking because it seems difficult, and maybe impossible. I've
```

> >> > > never heard of this high gain before, but I dont' know why I cann't
> >> > > stack amplifiers and I am looking for somebody who can tell me what
> >> > > exactly the problem is: you see the NF is nice, and I can get the SNR
> >> > > if the band is narrow enough.
> >> > >
> >> > > It also seems that I "don't know what I'm doing". So please explain a
> >> > > little if you want me to understand. Thanks.
> >> >
> >> > Well, how about a little additional information? What is it that you're
> >> > trying to accomplish? A gain of 140 dB would amplify a signal of strength 8
> >> > x 10^-10 Watts (About the equivalent of a received signal of 10 dB over
> >> > "S"-9) to a kiloWatt. I don't think you're trying to do that, so what
> >> > convinces you that you NEED 140 dB of gain?
>
> > I googled and saw GPS signal is -150dBm. So it's detectable, but it's
> > much higher frequency. What if it's 70Mhz?
>
> It probably isn't going to make a lot of difference whether it's 25 cm. or
> 40 cm; the principles are the same for DSSS decoding.
>
> GPS signals make heavy use of PN sequences so that they can be detected
> using autocorrelation techniques. They're down below the terrestrial noise
> threshold, and require autocorrelation techniques for synchronization and
> detection. But you probably know that already. This probably will be true
> of your solution as well, and especially so at those power levels.
>
> If you're going to be receiving and detecting signals at those power
> levels, you'll need to use something other than *just* amplification to
> pull the modulation out.
>
> One presumes you'll have a known short spreading sequence that you can
> use to try to sync up on the signal, or (if it's a longer sequence)
> that you'll have a rough idea of the code epoch, so that you can try
> to sneak up on it from behind, as it were.
>
> The point here is that a _lot_ of the process gain comes from the
> autocorrelation and despreading processes. You may not need all that
> analog gain. Getting it up to ... something like -30 dBm or -15 dBm
> may be enough -- or even overkill.
>
> --
> Mike Andrews, W5EGO
> mikea@mikea.ath.cx
> Tired old sysadmin

From 4098384529331556873
X-Google-Thread: fc2a5,e66678472e6cb7c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-mail

From: Lathi.Tan@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: effect of cascading LNAs
Date: 11 Oct 2006 15:12:58 -0700
Organization: http://groups.google.com
Lines: 27
Message-ID: <1160604778.509265.122140@k70g2000cwa.googlegroups.com>
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
   <15aXg.18227$wE5.8051@trnddc02>
   <1160591883.323566.104340@m7g2000cwm.googlegroups.com>
   <m7fqi2d746s2ucmlhbkfsnqdfrdbaajhnj@4ax.com>
   <1160593999.986847.117750@i3g2000cwc.googlegroups.com>
   <nAbXg.1018203$084.7002@attbi_s22>
   <1160595992.913074.73420@m7g2000cwm.googlegroups.com>
   <XfcXg.1018236$084.652609@attbi_s22>
   <1160598806.809126.280010@m7g2000cwm.googlegroups.com>
   <rUcXg.99967$aJ.316@attbi_s21>
NNTP-Posting-Host: 24.106.53.104
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160604783 28243 127.0.0.1 (11 Oct 2006 22:13:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 11 Oct 2006 22:13:03 +0000 (UTC)
In-Reply-To: <rUcXg.99967$aJ.316@attbi_s21>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
Maxthon; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=24.106.53.104;
   posting-account=vd4nKg0AAAByIqrBQ3_AV2sUtNpk8Ukc
Xref: g2news2.google.com rec.radio.amateur.homebrew:7395

Can I know how did you get that number of 50Hz? Thanks.

Harold E. Johnson wrote:
> <Lathi.Tan@gmail.com> wrote in message
> news:1160598806.809126.280010@m7g2000cwm.googlegroups.com...
> > I'm dealing with a DSSS current signal at 70MHz. Before I start
> > designing anything, I am calculating the signal amplitude. It's going
> > to be 5nArms. If I have a 50ohm resistor, it's -153dBm. I'd be happy to
> > know any solid proof that it's not doable because it's my job now.
> >
> > In theory DSSS signal can work under noise level, but can it be so
> > much?
>
> Well, I have no idea of what a DSSS signal is, so I can't be of much help.
> Whatever it is, it better be in a very narrow bandwidth. At that signal
> level, it will take a 50 Hz bandwidth to achieve minimum discernable signal
> (MDS) with a front end NF of 2.4 dB.
>
> If you're talking about using autocorrelation to bring it up out of the
> noise, all bets are off depending on how much time you can sacrifice.
>

```
> If you're planning on bringing this signal to -10 dBm, better prepare for a
> lot of shielding and decoupling, not to mention filtering and frequency
> stability at 70 MHz center frequency.
>
> W4ZCB



From 8933559318399670001
X-Google-Thread: fc2a5,5d78b1ed5280a702
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.nask.pl!
news.nask.org.pl!news.cyf-kr.edu.pl!agh.edu.pl!news.agh.edu.pl!news.onet.pl!not-
for-mail
From: MAc <mac_dx@tosiewytnie.poczta.onet.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: hello from belgium
Date: Thu, 12 Oct 2006 00:20:01 +0200
Organization: x
Lines: 6
Message-ID: <egjqmh$rr$1@news.onet.pl>
References: <egj46h$jvn$1@news.brutele.be>
Reply-To: mac_dx@tosiewytnie.poczta.onet.pl
NNTP-Posting-Host: pc119.pszczynska.silesianet.pl
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-2; format=flowed
Content-Transfer-Encoding: 8bit
X-Trace: news.onet.pl 1160605201 891 84.234.115.119 (11 Oct 2006 22:20:01 GMT)
X-Complaints-To: usenet@news.onet.pl
NNTP-Posting-Date: Wed, 11 Oct 2006 22:20:01 +0000 (UTC)
X-Sender: tziRau1SlJeRbF6OI/pJQplh44CxR6pL
In-Reply-To: <egj46h$jvn$1@news.brutele.be>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7396

pierard laurent napisa�(a):
> hello all,
>
> i am from belgium
> 73s all de on3vhf
hi from sp9mrn



From 6347326953063620122
X-Google-Thread: fc2a5,e66678472e6cb7c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s21.POSTED!53ab2750!not-for-
mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
```

Newsgroups: rec.radio.amateur.homebrew
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
<15aXg.18227$wE5.8051@trnddc02>
<1160591883.323566.104340@m7g2000cwm.googlegroups.com>
<m7fqi2d746s2ucmlhbkfsnqdfrdbaajhnj@4ax.com>
<1160593999.986847.117750@i3g2000cwc.googlegroups.com>
<nAbXg.1018203$084.7002@attbi_s22>
<1160595992.913074.73420@m7g2000cwm.googlegroups.com>
<XfcXg.1018236$084.652609@attbi_s22>
<1160598806.809126.280010@m7g2000cwm.googlegroups.com>
<rUcXg.99967$aJ.316@attbi_s21>
<1160604778.509265.122140@k70g2000cwa.googlegroups.com>
Subject: Re: effect of cascading LNAs
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <1yeXg.100041$aJ.10314@attbi_s21>
NNTP-Posting-Host: 12.215.38.98
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1160606973 12.215.38.98 (Wed, 11 Oct 2006 22:49:33 GMT)
NNTP-Posting-Date: Wed, 11 Oct 2006 22:49:33 GMT
Organization: AT&T ASP.att.net
Date: Wed, 11 Oct 2006 22:49:33 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7397

<Lathi.Tan@gmail.com> wrote in message
news:1160604778.509265.122140@k70g2000cwa.googlegroups.com...

> Can I know how did you get that number of 50Hz? Thanks.
>
>Boltzmans constant times temperature

KT for any resistor at room temperature =-174 dBm/Hz. That's as good as you get without cryogenic cooling.

Add 17 dBm to increase bandwidth from 1 Hz to 50 Hz = -157 dBM/Hz

Add 3 more to get to MDS and it's -154 dBm, your signal level.

W4ZCB

From 5040036917532200697
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
From: Slow Code <my.mail@no.spam>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 30
Message-ID: <ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
Date: Thu, 12 Oct 2006 01:01:05 GMT
NNTP-Posting-Host: 4.227.160.182
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1160614865 4.227.160.182 (Wed, 11 Oct
2006 18:01:05 PDT)
NNTP-Posting-Date: Wed, 11 Oct 2006 18:01:05 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5955
rec.radio.amateur.homebrew:7398 rec.radio.amateur.policy:49697 rec.radio.swap:8503

gwatts <gwatts@frontiernet.net> wrote in
news:Z4cXg.2828$ya1.2518@news02.roc.ny:

> Slow Code wrote:
>> gwatts <gwatts@frontiernet.net> wrote in
>> news:nOLWg.2685$Ka1.1928@news01.roc.ny:
>>
>>
>>>Slow Code wrote:
>>>
>>>>What do you like best about appliance operating?
>>>
>>>All the crotchety old farts are either off somewhere beep-beep-beeping
>>>away on CW or bitching to each other on the lower half of the 80m phone
>>>band, so it's easy to avoid them and talk to someone who enjoys ham
>>>radio as it is instead of whining about how it was.
>>>
>>
>>
>> Big Ten-Four on that Good Buddy.
>
> It sounds like you run a lot of 11m, not surprising considering how much
> you whine, and it's not alternator whine.

I only typed like because I knew you would understand that style of
communicating. So, after your license came in the mail what I appliance

did you decide to buy? MFJ? Alinco? Cobra?

SC

From 1729114531028660547
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.rcn.net!news.rcn.net.POSTED!
not-for-mail
NNTP-Posting-Date: Wed, 11 Oct 2006 20:51:34 -0500
Date: Wed, 11 Oct 2006 21:51:26 -0400
From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.0.6) Gecko/20060730
SeaMonkey/1.0.4
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
In-Reply-To: <ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <MNGdnVFG3tY7ArDYnZ2dnUVZ_qudnZ2d@rcn.net>
Lines: 44
NNTP-Posting-Host: 72.83.120.187
X-Trace: sv3-
L6kvyFiideCKpUN+KMiny36HXWDDecmN1Xc+iLPGIFNna8wymJZvyrcAh1iVZqrC6gT5yZGzQPG2e6e!
7h4OJRtIeEAQEtCViwNwautKtwznFYJ5wpw59Ev09eXYZIXjCQ+VxcNW85VhDK+q5Qh1PsJgEDIJ!
yai9+aNqpyQu
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5957
rec.radio.amateur.homebrew:7399 rec.radio.amateur.policy:49702 rec.radio.swap:8507

Slow Code wrote:

>>> Big Ten-Four on that Good Buddy.
>> It sounds like you run a lot of 11m, not surprising considering how much

>> you whine, and it's not alternator whine.
>
>
> I only typed like because I knew you would understand that style of communicating. So, after your license came in the mail what I appliance did you decide to buy? MFJ? Alinco? Cobra?

While you are being all holier than thou, what did you design and build for your main rig? I'm hoping to be impressed, but expecting to be disappointed.

Did the code help you with the design?

I took my Advanced class test down at 1919 M street 36 years ago. I had to sit at the desk and copy one solid minute out of five error free at 13WPM. I passed it on the first try. I almost failed the sending test, as I had never spent much time doing that. I had never made a code contact before my test, and I have only made a couple since.

The thing about code contacts is they never seem to want to say anything beyond:

WA3XXX DE W6XX RST 5NN WX FB 73 W6XX SK

How does that help the cause of amateur radio?

I have designed and built numerous rf receivers and transmitters, many are employed by the US Army for various uses. I have fixed many different radios from tube stuff through DSP driven affairs.

How exactly did the code help me to do this?

For me code was a means to an end. I wanted my license, so I learned the code.

There were plenty of rude, profane, and generally unpleasant hams on the air back when all had to pass the test in the offices of the FCC. I haven't noticed that things are any worse now. About the only real difference is in the quality of the gear folks are running. It is much better than the crappy stuff that was on the air back in the early 70's.

-Chuck

From -2557432305449506160
X-Google-Thread: fc2a5,e66678472e6cb7c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.trueband.net!
news.trueband.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 11 Oct 2006 20:53:14 -0500
From: Wes Stewart <n7ws*@*yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: effect of cascading LNAs

Date: Wed, 11 Oct 2006 18:53:52 -0700
Message-ID: <e18ri2h52u09pn5cveos1r17i8b0vgaqlq@4ax.com>
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
<15aXg.18227$wE5.8051@trnddc02>
<1160591883.323566.104340@m7g2000cwm.googlegroups.com>
<m7fqi2d746s2ucmlhbkfsnqdfrdbaajhnj@4ax.com>
<1160593999.986847.117750@i3g2000cwc.googlegroups.com>
X-Newsreader: Forte Free Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 23
NNTP-Posting-Host: 4.240.242.29
X-Trace: sv3-
V652Ux23Ua2px2Kp1MyIl9IC8xJ1FruYMpSld1FGFvY9BGyPlEqK41iL9wbseRFWkf23HJb99IfgZQt!
26DWrmU1AiO++Gju2LOpmdpKDk95yYGBWkxt+x3zg2kkU5/Kz+covhrOumhcXbJot2iMu6fZRTxd!
soNUWQxdvV2EjU//bucpIgcCFFiC
X-Complaints-To: abuse@trueband.net
X-DMCA-Complaints-To: abuse@trueband.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7400

On 11 Oct 2006 12:13:20 -0700, Lathi.Tan@gmail.com wrote:

>I asked what I don't know. I am expecting a helpful answer.

The problem was, you got some prior answers and then wanted to argue about it.

>
>The frequency is 70MHz.

Then, assuming some type of filtering around that frequency that's more or less where your system will likely oscillate.

One reason superhetrodyne receivers were developed to replace TRF receivers was to develop system gain at different frequencies so as to minimize the chance of oscillation. Another, of course was to achieve better selectivity that with older technology was better accomplished at lower frequencies.

Even a single conversion receiver usually develops its gain at three different frequencies: r-f, i-f and post detection.

From 7981647347426034611
X-Google-Thread: fc8b1,2dd76509fb44502d
X-Google-Thread: fc2a5,2dd76509fb44502d

```
X-Google-Thread: 10bf43,2dd76509fb44502d
X-Google-Thread: 1109af,2dd76509fb44502d
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Question for the group. Mainly new hams.
Date: Wed, 11 Oct 2006 22:28:29 -0400
Message-ID: <pv9ri29i9agjbai939s3u4iqnn3hmqhkac@4ax.com>
References: <ARgWg.8930$o71.4009@newsread3.news.pas.earthlink.net>
<nOLWg.2685$Ka1.1928@news01.roc.ny>
<28XWg.9930$o71.4353@newsread3.news.pas.earthlink.net>
<Z4cXg.2828$ya1.2518@news02.roc.ny>
<ltgXg.8081$Y24.2691@newsread4.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 38
NNTP-Posting-Date: 12 Oct 2006 01:33:15 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5960
rec.radio.amateur.homebrew:7401 rec.radio.amateur.policy:49714 rec.radio.swap:8512

On Thu, 12 Oct 2006 01:01:05 GMT, Slow Code <my.mail@no.spam> wrote:

>gwatts <gwatts@frontiernet.net> wrote in
>news:Z4cXg.2828$ya1.2518@news02.roc.ny:
>
>> Slow Code wrote:
>>> gwatts <gwatts@frontiernet.net> wrote in
>>> news:nOLWg.2685$Ka1.1928@news01.roc.ny:
>>>
>>>
>>>>Slow Code wrote:
>>>>
>>>>>What do you like best about appliance operating?
>>>>
>>>>All the crotchety old farts are either off somewhere beep-beep-beeping
>>>>away on CW or bitching to each other on the lower half of the 80m phone
>>>>band, so it's easy to avoid them and talk to someone who enjoys ham
>>>>radio as it is instead of whining about how it was.
>>>>
>>>
>>>
>>> Big Ten-Four on that Good Buddy.
>>
>> It sounds like you run a lot of 11m, not surprising considering how much
>> you whine, and it's not alternator whine.
```

>
>
>I only typed like because I knew you would understand that style of
>communicating. So, after your license came in the mail what I appliance
>did you decide to buy? MFJ? Alinco? Cobra?

this he is again Slow Code the POSTER boy for why should should go No Code

indeed Slow Code is would be a poster boy for dumpoing all testing but hopefully he will manage that "achievement

>
>SC

http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

```
From -5401251539964554244
X-Google-Thread: fc2a5,8515ac02db19e2fc,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wn12feed!worldnet.att.net!bgtnsc05-
news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: NOS BIRD '43' PLUGS: 9 IN ALL
Lines: 8
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <3diXg.251107$QM6.178915@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: 7953eccabc82deea966429f4d8043915
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1160622015
7953eccabc82deea966429f4d8043915 (Thu, 12 Oct 2006 03:00:15 GMT)
NNTP-Posting-Date: Thu, 12 Oct 2006 03:00:15 GMT
Organization: AT&T Worldnet
Date: Thu, 12 Oct 2006 03:00:15 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7402
```

I have 9 NOS Bird Model 43 plugs at various sizes + a few more Johnson parts coming shortly too: Tnx for looking:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

heytubeguy

From 2055573067798262669
X-Google-Thread: fc2a5,e66678472e6cb7c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!
213.132.189.2.MISMATCH!multikabel.net!feed20.multikabel.net!surfnet.nl!surfnet.nl!
newsfeed1.funet.fi!newsfeeds.funet.fi!feeder1.news.jippii.net!
reader1.news.jippii.net!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: effect of cascading LNAs
Message-ID: <oukri2pevc3j01gvn657qaubata0t45rnp@4ax.com>
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
<15aXg.18227$wE5.8051@trnddc02>
<1160591883.323566.104340@m7g2000cwm.googlegroups.com>
<m7fqi2d746s2ucmlhbkfsnqdfrdbaajhnj@4ax.com>
<1160593999.986847.117750@i3g2000cwc.googlegroups.com>
<nAbXg.1018203$084.7002@attbi_s22>
<1160595992.913074.73420@m7g2000cwm.googlegroups.com>
<XfcXg.1018236$084.652609@attbi_s22>
<1160598806.809126.280010@m7g2000cwm.googlegroups.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 44
Date: Thu, 12 Oct 2006 09:57:23 +0300
NNTP-Posting-Host: 195.197.6.117
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.jippii.net 1160636025 195.197.6.117 (Thu, 12 Oct 2006
09:53:45 EEST)
NNTP-Posting-Date: Thu, 12 Oct 2006 09:53:45 EEST
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:7403

On 11 Oct 2006 13:33:26 -0700, Lathi.Tan@gmail.com wrote:

>I'm dealing with a DSSS current signal at 70MHz. Before I start
>designing anything, I am calculating the signal amplitude.

You did not specify the chip rate or base band bit rate and spreading function. For GPS signals the chip rate is 1.023 MHz, and the signal spectrum is about 1 MHz wide, so the front end selectivity should be as close to this as possible.

For a terrestrial 70 MHz DSSS system, there are usually going to be several independent DSSS transmitters sharing this 1 MHz bandwidth (or whatever your chip rate is), some being close to the receiver and some very distant.

If you want to receive the distant signal and use the whole 1 MHz bandwidth all the way through the 140 dB gain, a weak distant transmitter producing only 0.1 uV at your receiver antenna terminal would be amplified to 1 V. However a local DSSS transmitter sharing the same 70 MHz band with a different PN sequence could produce 1 mV at your antenna terminal, which should also be amplified by 140 dB to 10 kV, which clearly is impossible ! The strong signals would saturate the later amplifying stages and the weak signal would not get through.

A reasonable gain/bandwidth distribution for a 70 MHz system would be to use a low loss band pass filter with a few MHz bandwidth at 70 MHz, to take out any VHF band I TV signals and FM broadcast signals at 100 MHz. Use a low noise amplifier stage, followed by a filter with deep sides which is matched to the bandwidth of the service (1 MHz for GPS). Then perhaps one stage, possibly with AGC and then the despreader, followed by a filter matching the bit rate (not chip rate) of the signal, followed by multiple AGC amplification stages to amplify the despread signal before the actual BPSK or whatever detector.

In terrestrial systems at 70 MHz the noise temperature is well above 300 K, thus the antenna noise figure is much worse than 3 dB, so trying to keep the receiver system noise figure below 3 dB might not be too productive. It might even be better to suffer an additional 1 dB noise figure hit and use steep filters tailored to the chip rate in front of the first LNA.

Paul OH3LWR

```
From 2658484519137431031
X-Google-Thread: fc2a5,5d78b1ed5280a702
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!koehntopp.de!
news.stack.nl!feeds.news.ox.ac.uk!news.ox.ac.uk!not-for-mail
From: "Martyn Preston" <Martyn.Preston@pharm.ox.ac.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: hello from belgium
Date: Thu, 12 Oct 2006 12:52:46 +0100
Organization: University Of Oxford, England
Lines: 14
Message-ID: <eglaaf$4mj$1@frank-exchange-of-views.oucs.ox.ac.uk>
References: <egj46h$jvn$1@news.brutele.be>
NNTP-Posting-Host: pharmitac.pharm.ox.ac.uk
X-Trace: frank-exchange-of-views.oucs.ox.ac.uk 1160653967 4819 163.1.20.55 (12 Oct
2006 11:52:47 GMT)
X-Complaints-To: newsmaster@ox.ac.uk
NNTP-Posting-Date: Thu, 12 Oct 2006 11:52:47 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
```

```
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Xref: g2news2.google.com rec.radio.amateur.homebrew:7404


"pierard laurent" <pierard_laurent@hotmail.com> wrote in message
news:egj46h$jvn$1@news.brutele.be...
> hello all,
>
> i am from belgium
> 73s all de on3vhf
>
>
> www.on3vhf.be.tf
>gd de g0thy
kn




From 1038118226879957626
X-Google-Thread: fc2a5,e66678472e6cb7c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: Lathi.Tan@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: effect of cascading LNAs
Date: 12 Oct 2006 09:18:09 -0700
Organization: http://groups.google.com
Lines: 48
Message-ID: <1160669888.951386.320910@m7g2000cwm.googlegroups.com>
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
   <15aXg.18227$wE5.8051@trnddc02>
   <1160591883.323566.104340@m7g2000cwm.googlegroups.com>
   <m7fqi2d746s2ucmlhbkfsnqdfrdbaajhnj@4ax.com>
   <1160593999.986847.117750@i3g2000cwc.googlegroups.com>
   <nAbXg.1018203$084.7002@attbi_s22>
   <1160595992.913074.73420@m7g2000cwm.googlegroups.com>
   <XfcXg.1018236$084.652609@attbi_s22>
   <1160598806.809126.280010@m7g2000cwm.googlegroups.com>
   <oukri2pevc3j01gvn657qaubata0t45rnp@4ax.com>
NNTP-Posting-Host: 24.106.53.104
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160669892 21357 127.0.0.1 (12 Oct 2006 16:18:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 12 Oct 2006 16:18:12 +0000 (UTC)
In-Reply-To: <oukri2pevc3j01gvn657qaubata0t45rnp@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
Maxthon; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
```

```
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=24.106.53.104;
   posting-account=vd4nKg0AAAByIqrBQ3_AV2sUtNpk8Ukc
Xref: g2news2.google.com rec.radio.amateur.homebrew:7405

Thanks this makes things connected and I start to understand.


Paul Keinanen wrote:
> On 11 Oct 2006 13:33:26 -0700, Lathi.Tan@gmail.com wrote:
>
> >I'm dealing with a DSSS current signal at 70MHz. Before I start
> >designing anything, I am calculating the signal amplitude.
>
> You did not specify the chip rate or base band bit rate and spreading
> function. For GPS signals the chip rate is 1.023 MHz, and the signal
> spectrum is about 1 MHz wide, so the front end selectivity should be
> as close to this as possible.
>
> For a terrestrial 70 MHz DSSS system, there are usually going to be
> several independent DSSS transmitters sharing this 1 MHz bandwidth (or
> whatever your chip rate is), some being close to the receiver and some
> very distant.
>
> If you want to receive the distant signal and use the whole 1 MHz
> bandwidth all the way through the 140 dB gain, a weak distant
> transmitter producing only 0.1 uV at your receiver antenna terminal
> would be amplified to 1 V. However a local DSSS transmitter sharing
> the same 70 MHz band with a different PN sequence could produce 1 mV
> at your antenna terminal, which should also be amplified by 140 dB to
> 10 kV, which clearly is impossible ! The strong signals would saturate
> the later amplifying stages and the weak signal would not get through.
>
> A reasonable gain/bandwidth distribution for a 70 MHz system would be
> to use a low loss band pass filter with a few MHz bandwidth at 70 MHz,
> to take out any VHF band I TV signals and FM broadcast signals at 100
> MHz. Use a low noise amplifier stage, followed by a filter with deep
> sides which is matched to the bandwidth of the service (1 MHz for
> GPS). Then perhaps one stage, possibly with AGC and then the
> despreader, followed by a filter matching the bit rate (not chip rate)
> of the signal, followed by multiple AGC amplification stages to
> amplify the despread signal before the actual BPSK or whatever
> detector.
>
> In terrestrial systems at 70 MHz the noise temperature is well above
> 300 K, thus the antenna noise figure is much worse than 3 dB, so
> trying to keep the receiver system noise figure below 3 dB might not
> be too productive. It might even be better to suffer an additional 1
> dB noise figure hit and use steep filters tailored to the chip rate in
> front of the first LNA.
>
> Paul OH3LWR
```

```
From -2731416069455599842
X-Google-Thread: fc2a5,e66678472e6cb7c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: Lathi.Tan@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: effect of cascading LNAs
Date: 12 Oct 2006 09:37:43 -0700
Organization: http://groups.google.com
Lines: 29
Message-ID: <1160671063.115660.87710@m7g2000cwm.googlegroups.com>
References: <1160586660.436290.243880@e3g2000cwe.googlegroups.com>
   <15aXg.18227$wE5.8051@trnddc02>
   <1160591883.323566.104340@m7g2000cwm.googlegroups.com>
   <m7fqi2d746s2ucmlhbkfsnqdfrdbaajhnj@4ax.com>
   <1160593999.986847.117750@i3g2000cwc.googlegroups.com>
   <e18ri2h52u09pn5cveos1r17i8b0vgaqlq@4ax.com>
NNTP-Posting-Host: 24.106.53.104
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160671067 18059 127.0.0.1 (12 Oct 2006 16:37:47 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 12 Oct 2006 16:37:47 +0000 (UTC)
In-Reply-To: <e18ri2h52u09pn5cveos1r17i8b0vgaqlq@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1;
Maxthon; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=24.106.53.104;
   posting-account=vd4nKg0AAAByIqrBQ3_AV2sUtNpk8Ukc
Xref: g2news2.google.com rec.radio.amateur.homebrew:7406
```

When the answer is not clear for our doubts, we argue about it for better explanation, until the doubts are solved. I think this is a healthy way to get answers.

Wes Stewart wrote:

```
> On 11 Oct 2006 12:13:20 -0700, Lathi.Tan@gmail.com wrote:
>
> >I asked what I don't know. I am expecting a helpful answer.
>
> The problem was, you got some prior answers and then wanted to argue
> about it.
> >
> >The frequency is 70MHz.
>
```

> Then, assuming some type of filtering around that frequency that's
> more or less where your system will likely oscillate.
>
> One reason superhetrodyne receivers were developed to replace TRF
> receivers was to develop system gain at different frequencies so as to
> minimize the chance of oscillation. Another, of course was to achieve
> better selectivity that with older technology was better accomplished
> at lower frequencies.
>
> Even a single conversion receiver usually develops its gain at three
> different frequencies: r-f, i-f and post detection.

```
From -8613896192325043094
X-Google-Thread: fc2a5,6afbc0dc9aa4daa8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.buerger.net!open-
news-network.org!news.stack.nl!feeds.news.ox.ac.uk!news.ox.ac.uk!
feed2.jnfs.ja.net!feed1.jnfs.ja.net!jnfs.ja.net!feeder.news.heanet.ie!
news.indigo.ie!not-for-mail
From: Eamon Skelton <Xnospam@oceanfree.net>
Subject: Re: Perspex
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-ID: <pan.2006.10.04.13.55.05.801686@oceanfree.net>
Newsgroups: rec.radio.amateur.homebrew
References: <eg02a6$odj$1@frank-exchange-of-views.oucs.ox.ac.uk>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 18
Date: Wed, 04 Oct 2006 14:55:06 +0100
NNTP-Posting-Host: 86.41.133.88
X-Complaints-To: abuse@eircom.net
X-Trace: news.indigo.ie 1159970106 86.41.133.88 (Wed, 04 Oct 2006 14:55:06 BST)
NNTP-Posting-Date: Wed, 04 Oct 2006 14:55:06 BST
Organization: Eircom.Net http://www.eircom.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:7256
```

On Wed, 04 Oct 2006 11:27:18 +0100, Martyn Preston wrote:

> Does anyone know how lossy perspex is at 2.3GHz? Want to use it to support a
> helical antenna.
>
> TIA - G0THY

2.3GHz is not too far from the frequency of a microwave oven.
Zap it and you will find out. It might be a good idea to
put a cup of water in the microwave with it.

73, Ed. EI9GQ.

--
Remove 'X' to reply by e-mail
Linux 2.6.17

```
From 2230083182701734376
X-Google-Thread: fc2a5,6afbc0dc9aa4daa8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!tiscali!
newsfeed1.ip.tiscali.net!news.tiscali.de!uio.no!fi.sn.net!newsfeed1.fi.sn.net!
news.song.fi!not-for-mail
Date: Wed, 04 Oct 2006 23:03:52 +0300
From: Risto Tiilikainen <risto.tiilikainenPOISTA@luukku.comMUNIST.NOT>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Perspex
References: <eg02a6$odj$1@frank-exchange-of-views.oucs.ox.ac.uk>
In-Reply-To: <eg02a6$odj$1@frank-exchange-of-views.oucs.ox.ac.uk>
Content-Type: text/plain; charset=ISO-8859-15; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 19
Message-ID: <4524139f$0$16499$39db0f71@news.song.fi>
Organization: TDC Song Internet Services
NNTP-Posting-Host: 82-203-199-79.dsl.gohome.fi
X-Trace: 1159992223 news.song.fi 16499 82.203.199.79:4278
X-Complaints-To: abuse@song.fi
Xref: g2news2.google.com rec.radio.amateur.homebrew:7257
```

Martyn Preston kirjoitti:

> Does anyone know how lossy perspex is at 2.3GHz? Want to use it to support a
> helical antenna.
>
> TIA - G0THY
>
>

Hi

I wouldn't try perspex nowadays
Perspex itself is very lossy when compared to modern compounds
I think perspex absorbs easily humidity and then you may have problems.
Specially in voltage maximum points of helical.
For the same reason I don't recommend fiberglass for outdoor use.

I recommend Teflon or nylon for insulators and supports.

73, Risto OH2BT

```
From 6390509061857604308
X-Google-Thread: fc2a5,6afbc0dc9aa4daa8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!
nx02.iad01.newshosting.com!newshosting.com!198.186.190.247.MISMATCH!news-
out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Perspex
Date: Wed, 4 Oct 2006 21:51:02 +0000 (UTC)
Organization: MGT Consulting
Lines: 22
Message-ID: <slrnei8amm.23q.gsm@cable.mendelson.com>
References: <eg02a6$odj$1@frank-exchange-of-views.oucs.ox.ac.uk>
<4524139f$0$16499$39db0f71@news.song.fi>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: dsl217-132-62-167.bb.netvision.net.il
X-Trace: marvin.misty.com 1159998662 2666 217.132.62.167 (4 Oct 2006 21:51:02 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Wed, 4 Oct 2006 21:51:02 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7258

Risto Tiilikainen wrote:
> I wouldn't try perspex nowadays
> Perspex itself is very lossy when compared to modern compounds
> I think perspex absorbs easily humidity and then you may have problems.
> Specially in voltage maximum points of helical.
> For the same reason I don't recommend fiberglass for outdoor use.
>
> I recommend Teflon or nylon for insulators and supports.

I have read that toothbrush handles work very well. I'm not sure how you
would use them to mount a helical antenna, but with it in front of you,
it might be easier to figure out.

73,

Geoff.



--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com  N3OWJ/4X1GM
IL Voice: (07)-7424-1667  Fax ONLY: 972-2-648-1443 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/


From -4311807981162137928
X-Google-Thread: fc2a5,6afbc0dc9aa4daa8
```

X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Perspex
Date: 4 Oct 2006 15:37:17 -0700
Organization: http://groups.google.com
Lines: 37
Message-ID: <1160001437.934976.138270@m73g2000cwd.googlegroups.com>
References: <eg02a6$odj$1@frank-exchange-of-views.oucs.ox.ac.uk>
   <4524139f$0$16499$39db0f71@news.song.fi>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160001443 2175 127.0.0.1 (4 Oct 2006 22:37:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 4 Oct 2006 22:37:23 +0000 (UTC)
In-Reply-To: <4524139f$0$16499$39db0f71@news.song.fi>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7259

Wow, I'm amazed you put Teflon and nylon in the same category! There
are many types of nylon, and AFAIK, none is particularly low loss.

One reference I have suggests a dissipation factor for polymethyl
methacrylate (unadulterated "Perspex") of about .008 at 3GHz. Nylon 66
(a common formulation) seems to be about three or four times that much.
 But beware that you commonly don't get "pure" plastics.

For comparison, Teflon runs more like .00015 dissipation factor at
3GHz. Pure forms of polyethylene and polystyrene are similarly low.
Polypropylene tends to be good, below .001. Polycarbonate is decent at
around .002.

Cheers,
Tom

Risto Tiiilikainen wrote:
> Martyn Preston kirjoitti:
> > Does anyone know how lossy perspex is at 2.3GHz? Want to use it to support a
> > helical antenna.
> >
> > TIA - G0THY
> >
> >

```
> Hi
>
> I wouldn't try perspex nowadays
> Perspex itself is very lossy when compared to modern compounds
> I think perspex absorbs easily humidity and then you may have problems.
> Specially in voltage maximum points of helical.
> For the same reason I don't recommend fiberglass for outdoor use.
>
> I recommend Teflon or nylon for insulators and supports.
>
> 73, Risto OH2BT



From 1097963511067504221
X-Google-Thread: fc2a5,6afbc0dc9aa4daa8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.germany.com!newsfeed.freenet.de!
newspeer1.nwr.nac.net!news.maxwell.syr.edu!sn-xt-sjc-04!sn-xt-sjc-11!sn-xt-sjc-09!
sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Perspex
Date: Wed, 04 Oct 2006 16:26:38 -0700
Organization: EZNEC Antenna Software
Message-ID: <12i8gpg69lmqjd5@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <eg02a6$odj$1@frank-exchange-of-views.oucs.ox.ac.uk>
<4524139f$0$16499$39db0f71@news.song.fi>
<1160001437.934976.138270@m73g2000cwd.googlegroups.com>
In-Reply-To: <1160001437.934976.138270@m73g2000cwd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 24
Xref: g2news2.google.com rec.radio.amateur.homebrew:7260

K7ITM wrote:
> Wow, I'm amazed you put Teflon and nylon in the same category!  There
> are many types of nylon, and AFAIK, none is particularly low loss.
>
> One reference I have suggests a dissipation factor for polymethyl
> methacrylate (unadulterated "Perspex") of about .008 at 3GHz.  Nylon 66
> (a common formulation) seems to be about three or four times that much.
>  But beware that you commonly don't get "pure" plastics.
>
> For comparison, Teflon runs more like .00015 dissipation factor at
> 3GHz.  Pure forms of polyethylene and polystyrene are similarly low.
> Polypropylene tends to be good, below .001.  Polycarbonate is decent at
> around .002.
```

But be sure to pay attention to UV susceptibility if your antenna is exposed to the sun. Many plastics deteriorate quickly in sunlight, and polypropylene is particularly bad. And of course you might need to consider mechanical properties. Polystyrene is brittle and breaks quite easily. Polyethylene and Teflon are soft, and Teflon cold flows. (I don't know about polyethylene but suspect it might also.) Polycarbonate is tough and nice stuff mechanically, but don't know about its UV resistance.

Roy Lewallen, W7EL

```
From -6354178176366574794
X-Google-Thread: fc2a5,6afbc0dc9aa4daa8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!
newshosting.com!208.49.83.146.MISMATCH!uns-out.usenetserver.com!
news.usenetserver.com!pc03.usenetserver.com!FUSE.NET-a2kHrUvQQWlmc!not-for-mail
Message-ID: <45244ED2.2040408@fuse.net>
Date: Wed, 04 Oct 2006 20:16:18 -0400
From: jawod <jawod@fuse.net>
User-Agent: Mozilla Thunderbird 1.0.2 (Macintosh/20050317)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Perspex
References: <eg02a6$odj$1@frank-exchange-of-views.oucs.ox.ac.uk>
<4524139f$0$16499$39db0f71@news.song.fi>
<1160001437.934976.138270@m73g2000cwd.googlegroups.com>
<12i8gpg69lmqjd5@corp.supernews.com>
In-Reply-To: <12i8gpg69lmqjd5@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 35
X-Trace: 4283045244f44ed94689c00880
Xref: g2news2.google.com rec.radio.amateur.homebrew:7261
```

Roy Lewallen wrote:

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> don't know about polyethylene but suspect it might also.) Polycarbonate
> is tough and nice stuff mechanically, but don't know about its UV
> resistance.
>
> Roy Lewallen, W7EL
I can speak to polycarbonate in a very small way: PCB ophthalmic lenses
are treated to provide excellent UV protection.  But my understanding is
that pure PCB is not particularly UV resistant.  Without a coating
(which provides the UV protection) it scratches very easily, so in that
sense, it is a soft material.

John
AB8O



From -2086881547497864948
X-Google-Thread: fc2a5,6afbc0dc9aa4daa8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Perspex
Date: 4 Oct 2006 17:44:57 -0700
Organization: http://groups.google.com
Lines: 35
Message-ID: <1160009097.695738.17420@b28g2000cwb.googlegroups.com>
References: <eg02a6$odj$1@frank-exchange-of-views.oucs.ox.ac.uk>
   <4524139f$0$16499$39db0f71@news.song.fi>
   <1160001437.934976.138270@m73g2000cwd.googlegroups.com>
   <12i8gpg69lmqjd5@corp.supernews.com>
NNTP-Posting-Host: 207.200.116.72
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160009101 4640 127.0.0.1 (5 Oct 2006 00:45:01 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 5 Oct 2006 00:45:01 +0000 (UTC)
In-Reply-To: <12i8gpg69lmqjd5@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
```

ntc-te12.proxy.aol.com[CFC8723C] (Prism/1.1.4), HTTP/1.1 cache-ntc-ab08.proxy.aol.com[CFC87448] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=207.200.116.72;
posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:7262

Roy Lewallen wrote:
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> >
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> easily. Polyethylene and Teflon are soft, and Teflon cold flows. (I
> don't know about polyethylene but suspect it might also.) Polycarbonate
> is tough and nice stuff mechanically, but don't know about its UV
> resistance.

Polycarbonate sheets in many sizes are found in do-it-yourself stores as window glass replacement. While expensive, most of those brands are marked "sunlight resistant."

Lowes, Home Depot, OSH all carry polycarbonate "window replacement" pieces here in southern California.

LenAnderson@ieee.org

From 5972105163597201875
X-Google-Thread: fc2a5,6afbc0dc9aa4daa8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.trueband.net!
news.trueband.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 04 Oct 2006 21:34:34 -0500
From: Wes Stewart <n7ws*@*yahoo.com>

Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Perspex
Date: Wed, 04 Oct 2006 19:35:06 -0700
Message-ID: <6nr8i215r87fck45ebl138a7rmopv9kiov@4ax.com>
References: <eg02a6$odj$1@frank-exchange-of-views.oucs.ox.ac.uk>
<4524139f$0$16499$39db0f71@news.song.fi>
<1160001437.934976.138270@m73g2000cwd.googlegroups.com>
<12i8gpg69lmqjd5@corp.supernews.com>
<1160009097.695738.17420@b28g2000cwb.googlegroups.com>
X-Newsreader: Forte Free Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 40
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X-Trace: sv3-
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XmP1s1jtPc9STDx/r6+vMHkoLhuga8gTsILYhSC/dmAbLTMbV3cTemaKLcLaK8zT+ioc7L7N7A7X!
3WINA14UYkiGZHTe1kYnqWhuZo2d
X-Complaints-To: abuse@trueband.net
X-DMCA-Complaints-To: abuse@trueband.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7263

On 4 Oct 2006 17:44:57 -0700, "LenAnderson@ieee.org"
<LenAnderson@ieee.org> wrote:

>
>Roy Lewallen wrote:
>> K7ITM wrote:
>> > Wow, I'm amazed you put Teflon and nylon in the same category! There
>> > are many types of nylon, and AFAIK, none is particularly low loss.
>> >
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>   Polycarbonate sheets in many sizes are found in do-it-
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>   expensive, most of those brands are marked "sunlight
>   resistant."
>
>   Lowes, Home Depot, OSH all carry polycarbonate "window
>   replacement" pieces here in southern California.

Those materials are apparently coated for UV protection. I put some
in the windows of a playhouse I built for my granddaughter and the
protective film was labeled as to which side should be out.

From 6612566214287053245
X-Google-Thread: fc2a5,3bbe1357ac196e48
X-Google-Thread: 10bf43,3bbe1357ac196e48
X-Google-Thread: 114aac,cbd587c19427855e
X-Google-Attributes: gidfc2a5,gid10bf43,gid114aac,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!news.glorb.com!newsfeed2.telusplanet.net!newsfeed.telus.net!edtnps89.POSTED!53ab2750!not-for-mail
From: "Matt Williamson" <mdj_williamson@hotmail.com>
Newsgroups: rec.ham-radio.misc,rec.ham-radio.swap,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.amateur.swap,rec.radio.boatanchors,rec.radio.shortwave
References: <8Y-dnQuvbIz2GHLZnZ2dnUVZ_uydnZ2d@comcast.com> <bac77$44f04f82$d1cc790d$30393@snip.allthenewsgroups.com> <1pGdnVp-eZwh0mnZnZ2dnUVZ_qudnZ2d@bright.net> <VjpJg.6982$q63.4842@newssvr13.news.prodigy.com> <9-ydna4LspfC22rZnZ2dnUVZ_oydnZ2d@bright.net> <12fej93b8d99jc5@news.supernews.com>
Subject: Re: radiomart descriptions
Lines: 34
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <8v0Vg.38819$Lb5.23551@edtnps89>
Date: Thu, 05 Oct 2006 05:12:36 GMT
NNTP-Posting-Host: 205.250.242.107
X-Trace: edtnps89 1160025156 205.250.242.107 (Wed, 04 Oct 2006 23:12:36 MDT)
NNTP-Posting-Date: Wed, 04 Oct 2006 23:12:36 MDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7264 rec.radio.amateur.policy:48685 rec.radio.shortwave:54887

A private auction doesn't limit who can bid on the item, it just hides the
user ids of the people who are bidding on it. I bought an Icom PCR-100 from
him a while ago, and while I am quite happy with it I noticed he had a few
more for sale that where owned by the same guy with a 486 who was selling it
because he didn't know how to use it. However, there was an issue that came

up in the sale and he handled it very well.

$0.02

Matt

"Mike" <no@where.man> wrote in message
news:12fej93b8d99jc5@news.supernews.com...
> "Chas" <wg2a@mhtc.net> wrote in message
> news:9-ydna4LspfC22rZnZ2dnUVZ_oydnZ2d@bright.net...
>> Because before his auctions went "Private", you could see
>> "gottahaveit1995
>> bidding on numerous things of his. Ebays use of "Private" auctions
>> mystifies
>> me, it only serves to protect questionable dealers, anyone else have more
>> insight?
>
> The purpose of Private auctions is just that - private. As in not public.
>
> For example, where I work, we have a yearly "sell off some old computers
> to the employees" thing. We have used eBay private auctions for this.
> Only our employees can bid - not the general public.
>
> Mike
>
>

From 1476461565348241365
X-Google-Thread: fc2a5,2783be502e10bf83
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!uns-out.usenetserver.com!
news.usenetserver.com!pc03.usenetserver.com!PRIMUS.CA-a2kHrUvQQWlmc!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RF data modules
From: SW <SW@!aol.com>
References: <26f76$45226eba$d871df4e$21265@PRIMUS.CA>
Organization: none
User-Agent: Xnews/5.04.25
Message-ID: <e33d3$45249c0d$d871df4e$24324@PRIMUS.CA>
X-Complaints-To: abuse@usenetserver.com
Date: Thu, 05 Oct 2006 01:45:49 -0400
Lines: 12
X-Trace: e33d345249c0d7dd47aeb24324
Xref: g2news2.google.com rec.radio.amateur.homebrew:7265

How about the Parallax modules at 433 MHz?

> What are some RF modules that work well to transmit serial data from a
> computer to another device.
> Will consider homebrew circuits.
>
> Thanks
>
> SW
>

```
From 1439253896722120301
X-Google-Thread: fc2a5,6afbc0dc9aa4daa8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-
online.de!news-out2.kabelfoon.nl!newsfeed.kabelfoon.nl!bandi.nntp.kabelfoon.nl!
demorgan.zen.co.uk!zen.net.uk!hamilton.zen.co.uk!feed4.jnfs.ja.net!jnfs.ja.net!
feeds.news.ox.ac.uk!news.ox.ac.uk!not-for-mail
From: "Martyn Preston" <Martyn.Preston@pharm.ox.ac.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Perspex
Date: Thu, 5 Oct 2006 08:27:23 +0100
Organization: University Of Oxford, England
Lines: 6
Message-ID: <eg2c4t$hna$1@frank-exchange-of-views.oucs.ox.ac.uk>
References: <eg02a6$odj$1@frank-exchange-of-views.oucs.ox.ac.uk>
<4524139f$0$16499$39db0f71@news.song.fi>
<1160001437.934976.138270@m73g2000cwd.googlegroups.com>
<12i8gpg69lmqjd5@corp.supernews.com>
<1160009097.695738.17420@b28g2000cwb.googlegroups.com>
<6nr8i215r87fck45ebl138a7rmopv9kiov@4ax.com>
NNTP-Posting-Host: pharmitac.pharm.ox.ac.uk
X-Trace: frank-exchange-of-views.oucs.ox.ac.uk 1160033245 18154 163.1.20.55 (5 Oct
2006 07:27:25 GMT)
X-Complaints-To: newsmaster@ox.ac.uk
NNTP-Posting-Date: Thu, 5 Oct 2006 07:27:25 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Xref: g2news2.google.com rec.radio.amateur.homebrew:7266
```

thanks for the replies and advice- am going to try the microwave oven test.

martyn g0thy

From -950583781943307202
X-Google-Thread: fc2a5,3bbe1357ac196e48
X-Google-Thread: 10bf43,3bbe1357ac196e48
X-Google-Thread: 114aac,cbd587c19427855e
X-Google-Attributes: gidfc2a5,gid10bf43,gid114aac,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news1.google.com!news.maxwell.syr.edu!
newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr11.news.prodigy.com.POSTED!ff77ff7d!not-for-mail
From: "Jim Hackett" <hackman@pcpeople.com>
Newsgroups: rec.ham-radio.misc,rec.ham-radio.swap,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.amateur.swap,rec.radio.boatanchors,rec.radio.shortwave
References: <8Y-dnQuvbIz2GHLZnZ2dnUVZ_uydnZ2d@comcast.com>
<bac77$44f04f82$d1cc790d$30393@snip.allthenewsgroups.com> <1pGdnVp-eZwh0mnZnZ2dnUVZ_qudnZ2d@bright.net>
<VjpJg.6982$q63.4842@newssvr13.news.prodigy.com> <9-ydna4LspfC22rZnZ2dnUVZ_oydnZ2d@bright.net> <12fej93b8d99jc5@news.supernews.com>
<8v0Vg.38819$Lb5.23551@edtnps89>
Subject: Re: radiomart descriptions
Lines: 45
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <Rn7Vg.1831$NE6.1457@newssvr11.news.prodigy.com>
NNTP-Posting-Host: 71.135.161.248
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr11.news.prodigy.com 1160053361 ST000 71.135.161.248 (Thu, 05 Oct 2006 09:02:41 EDT)
NNTP-Posting-Date: Thu, 05 Oct 2006 09:02:41 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1: [[PAPDCAO@TIVV\PMJXR_PAAX@\
\TBHIQ@T@_FYLKX^JGEUNDO_AR\VZBL[\YUWHANGYZEFNHFZPNLOBUNSS^_LGEVWEY\PHO@YJSSWBBDT\PFD^ESBTXVCCMTD]JCJLE_IJMFNRY]SWE[S[D_CNB__ZK^VGVCKHA[S@COB^[@ZQSDFQ\BPMS@DZVUKQTJL
Date: Thu, 05 Oct 2006 13:02:41 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7267
rec.radio.amateur.policy:48710 rec.radio.shortwave:54896

I had a good experience with him too but people are ONLY interested in the
deals that went sour...

"Matt Williamson" <mdj_williamson@hotmail.com> wrote in message
news:8v0Vg.38819$Lb5.23551@edtnps89...
>A private auction doesn't limit who can bid on the item, it just hides the
>user ids of the people who are bidding on it. I bought an Icom PCR-100
>from him a while ago, and while I am quite happy with it I noticed he had a

```
>few more for sale that where owned by the same guy with a 486 who was
>selling it because he didn't know how to use it.  However, there was an
>issue that came up in the sale and he handled it very well.
>
> $0.02
>
> Matt
>
>
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>> "Chas" <wg2a@mhtc.net> wrote in message
>> news:9-ydna4LspfC22rZnZ2dnUVZ_oydnZ2d@bright.net...
>>> Because before his auctions went "Private", you could see
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>>> bidding on numerous things of his. Ebays use of "Private" auctions
>>> mystifies
>>> me, it only serves to protect questionable dealers, anyone else have
>>> more
>>> insight?
>>
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>>
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>>
>> Mike
>>
>>
>
>
```

```
From -3634251748161920264
X-Google-Thread: fc2a5,6afbc0dc9aa4daa8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!post02.iad01!not-for-
mail
From: cbx <nospam@nospam.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Perspex
Date: Thu, 05 Oct 2006 08:49:28 -0500
Message-ID: <ua3ai2lnicv3usrq0235521c2qvcn45pcg@4ax.com>
References: <eg02a6$odj$1@frank-exchange-of-views.oucs.ox.ac.uk>
<4524139f$0$16499$39db0f71@news.song.fi>
<1160001437.934976.138270@m73g2000cwd.googlegroups.com>
<12i8gpg69lmqjd5@corp.supernews.com>
```

```
<1160009097.695738.17420@b28g2000cwb.googlegroups.com>
<6nr8i215r87fck45ebl138a7rmopv9kiov@4ax.com> <eg2c4t$hna$1@frank-exchange-of-
views.oucs.ox.ac.uk>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 12
Organization: Newshosting.com - Highest quality at a great price!
www.newshosting.com
X-Complaints-To: abuse@newshosting.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7268

Report back please...


On Thu, 5 Oct 2006 08:27:23 +0100, "Martyn Preston"
<Martyn.Preston@pharm.ox.ac.uk> wrote:

>
>thanks for the replies and advice- am going to try the microwave oven test.
>
>martyn g0thy
>




From -7754928358604549574
X-Google-Thread: fc2a5,f9844728a7437632,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-
mail
From: "radiofreeq@gmail.com" <radiofreeq@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: PSD on a spectrum analyzer.
Date: 5 Oct 2006 08:36:21 -0700
Organization: http://groups.google.com
Lines: 19
Message-ID: <1160062581.342218.315870@m73g2000cwd.googlegroups.com>
NNTP-Posting-Host: 70.91.208.121
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160062587 2807 127.0.0.1 (5 Oct 2006 15:36:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 5 Oct 2006 15:36:27 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=70.91.208.121;
   posting-account=CBZFsw0AAABcS6uj9s-o_82YLIDSDVjI
Xref: g2news2.google.com rec.radio.amateur.homebrew:7269
```

Hello,
I think what we read on a spectrum analyzer is dBm for the specified range.

dBm/MHz is the PSD.

Lets say if the signal bandwidth is occupying 500Mhz (UWB) and has a PSD of -30dBm, then what is my power in the entire channel?

(-30dBm)*500 = (1microW)*500 = 500 microWatts = -3dBm

So do I see the -3dBm signal level on the spectrum analyzer in the whole bandwidth?

Please correct me if I am wrong.

Thanks.

From 8211261528806122917
X-Google-Thread: fc2a5,f9844728a7437632
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PSD on a spectrum analyzer.
Date: 5 Oct 2006 09:39:21 -0700
Organization: http://groups.google.com
Lines: 41
Message-ID: <1160066361.921060.189680@k70g2000cwa.googlegroups.com>
References: <1160062581.342218.315870@m73g2000cwd.googlegroups.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160066367 12172 127.0.0.1 (5 Oct 2006 16:39:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 5 Oct 2006 16:39:27 +0000 (UTC)
In-Reply-To: <1160062581.342218.315870@m73g2000cwd.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7270

A spectrum analyzer has filters with particular bandwidths. What you see displayed is the power passed by the filter. If you have the analyzer set for a 5kHz resolution bandwidth, what you see, then, is the power in (nominally) 5kHz of spectrum. To make things accurate, you need to understand the shape of the filter, as well. In addition, you can't necessarily use that number to find power spectral density in other than a gross sense unless you know that the power is distributed more or less evenly across that piece of spectrum. That is, if you use 5kHz resolution bandwidth and the signal has 99% of its power in a 1Hz segment within that 5kHz, the signal's actual power spectral density (at its center frequency) is much higher than the indicated power per 5kHz.

Many modern spectrum analyzers will display power spectral density directly for you, taking into account the filter shapes and such. Also, beware that resolution bandwidth and video bandwidth (on analyzers that have both) are not the same thing.

Cheers,
Tom

radiofreeq@gmail.com wrote:
> Hello,
> I think what we read on a spectrum analyzer is dBm for the specified
> range.
>
> dBm/MHz is the PSD.
>
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> PSD of -30dBm, then what is my power in the entire channel?
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> (-30dBm)*500 = (1microW)*500 = 500 microWatts = -3dBm
>
> So do I see the -3dBm signal level on the spectrum analyzer in the
> whole bandwidth?
>
> Please correct me if I am wrong.
>
>
> Thanks.

From -8971197161763117931
X-Google-Thread: fc2a5,72f14db2c738fe73,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.suscom.com!news.suscom.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 05 Oct 2006 12:00:50 -0500
Newsgroups: rec.radio.amateur.homebrew
Subject: GE paging transmitter 4CX250 question.
From: hexter@blazenet.net (Gudmundur)
Reply-To: retxeh@blazenet.net

Organization: alphabetically?
X-Newsreader: WinVN 0.99.6
MIME-Version: 1.0
Content-Type: Text/Plain; charset=US-ASCII
Message-ID: <y6mdnQ6Jtbrep7jYnZ2dnUVZ_o2dnZ2d@suscom.com>
Date: Thu, 05 Oct 2006 12:00:51 -0500
Lines: 30
NNTP-Posting-Host: 24.104.7.19
X-Trace: sv3-y9n/
ZWJqECVsDvtf57w0VDZd4wZy0L7F358ADZe7xCuiJeyMbPum91f4HpQ49SYAa12f1DLHe91azhq!
FMfxZX3xkJyKN21TmNOD8LcdTOPcgv7oydiDY1TvDzxwM/mAX5HwiAxI3I17K4RLJLXfpimcY/BY!
4IU4nZk=
X-Complaints-To: abuse@suscom.net
X-DMCA-Complaints-To: dmca@suscom.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7271

Hi folks,

I am responsible for the care and feeding of our GE pager transmitter on 150mhz vhf frequency range. I don't have the model number here as I am at home at the moment. It uses a single 4CX250 in the cavity final.

The problem is this, 10 watts output with 10 watts input, Plate voltage is 2100, plate current is very low at 100ma (normal is 270) and the screen voltage is around 60 to 80 volts.

The screen is supplied through an 80k resistor from the 2100 volt supply and has variable resistors to ground to set the actual screen operating point. I have placed as much as 500 volts on the screen circuit externally with the tube removed to check the bypass caps and they seem fine. They withstand the 500vdc without breaking down.
The tube is good, we tried it in another cavity (our spare amplifier).
The plate circuit is good also. At first I thought I had lost a plate choke or connection causing the screen to draw excess current.

I know the screen is drawing excess current causing the screen voltage to fall off. The control grid current looks normal and behaves normally with tuning controls. I don't get it?? How can I have excess screen current and yet have the low plate current?
The tank circuit seems normal, the tuning controls appear to work properly, in fact every once in a while the unit will work perfect for a minute or two making 250 watts output, then it goes back to acting weird again.

Anyone ever have a GE vhf amplifier do this?   Thanks!!

From 2480467937757384844

X-Google-Thread: fc2a5,f9844728a7437632
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!
feed.xsnews.nl!feeder.xsnews.nl!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-05!
sn-ams!sn-feed-ams-03!sn-post-ams-01!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PSD on a spectrum analyzer.
Date: Thu, 05 Oct 2006 13:45:43 -0700
Organization: EZNEC Antenna Software
Message-ID: <12iarnp3a5pekb8@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <1160062581.342218.315870@m73g2000cwd.googlegroups.com>
<1160066361.921060.189680@k70g2000cwa.googlegroups.com>
In-Reply-To: <1160066361.921060.189680@k70g2000cwa.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 62
Xref: g2news2.google.com rec.radio.amateur.homebrew:7272

To add to what Tom wrote,

Ordinary spectrum analyzers sweep the filter across the band of interest, so what you see is not only the power in that filter bandwidth, but the power that's at each frequency at the moment the filter is there. Movement of the filter frequency constitutes modulation of the observed signal, which in itself creates sidebands. So what you see on a spectrum analyzer is heavily influenced by the relationship between the nature of the modulation causing the bandwidth spreading and the sweep rate of the analyzer. With some broadband signals, you can get vastly different displays by changing the resolution bandwidth and sweep rate, or with different filter shapes.

This is covered in detail in _Modern Spectrum Analyzer Theory and Applications_ by Morris Engelson (Artech House, 1984). I highly recommend it to anyone needing to measure and interpret complex waveforms on a spectrum analyzer.

Roy Lewallen, W7EL

K7ITM wrote:

> A spectrum analyzer has filters with particular bandwidths. What you see displayed is the power passed by the filter. If you have the analyzer set for a 5kHz resolution bandwidth, what you see, then, is the power in (nominally) 5kHz of spectrum. To make things accurate, you need to understand the shape of the filter, as well. In addition, you can't necessarily use that number to find power spectral density in other than a gross sense unless you know that the power is distributed

> more or less evenly across that piece of spectrum. That is, if you use
> 5kHz resolution bandwidth and the signal has 99% of its power in a 1Hz
> segment within that 5kHz, the signal's actual power spectral density
> (at its center frequency) is much higher than the indicated power per
> 5kHz.
>
> Many modern spectrum analyzers will display power spectral density
> directly for you, taking into account the filter shapes and such.
> Also, beware that resolution bandwidth and video bandwidth (on
> analyzers that have both) are not the same thing.
>
> Cheers,
> Tom
>
> radiofreeq@gmail.com wrote:
>> Hello,
>> I think what we read on a spectrum analyzer is dBm for the specified
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>>
>> dBm/MHz is the PSD.
>>
>> Lets say if the signal bandwidth is occupying 500Mhz (UWB) and has a
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>>
>> (-30dBm)*500 = (1microW)*500 = 500 microWatts = -3dBm
>>
>> So do I see the -3dBm signal level on the spectrum analyzer in the
>> whole bandwidth?
>>
>> Please correct me if I am wrong.
>>
>>
>> Thanks.
>

From 2204449596952752156
X-Google-Thread: fc2a5,6afbc0dc9aa4daa8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!uio.no!fi.sn.net!newsfeed1.fi.sn.net!news.song.fi!not-for-mail
Date: Fri, 06 Oct 2006 00:38:22 +0300
From: Risto Tiilikainen <risto.tiilikainenPOISTA@luukku.comMUNIST.NOT>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Perspex
References: <eg02a6$odj$1@frank-exchange-of-views.oucs.ox.ac.uk>
<4524139f$0$16499$39db0f71@news.song.fi>
<1160001437.934976.138270@m73g2000cwd.googlegroups.com>
<12i8gpg69lmqjd5@corp.supernews.com>
<1160009097.695738.17420@b28g2000cwb.googlegroups.com>

<6nr8i215r87fck45ebl138a7rmopv9kiov@4ax.com> <eg2c4t$hna$1@frank-exchange-of-views.oucs.ox.ac.uk>
In-Reply-To: <eg2c4t$hna$1@frank-exchange-of-views.oucs.ox.ac.uk>
Content-Type: text/plain; charset=ISO-8859-15; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 13
Message-ID: <45257b42$0$16504$39db0f71@news.song.fi>
Organization: TDC Song Internet Services
NNTP-Posting-Host: 82-203-199-79.dsl.gohome.fi
X-Trace: 1160084290 news.song.fi 16504 82.203.199.79:1675
X-Complaints-To: abuse@song.fi
Xref: g2news2.google.com rec.radio.amateur.homebrew:7273

Martyn Preston kirjoitti:
> thanks for the replies and advice- am going to try the microwave oven test.
>
> martyn g0thy
>
>
Hi

Before you test perspex immerse the test piece in water for some days.
Maybe this simulates rainy days.

73, Risto OH2BT

From 3159990132869256292
X-Google-Thread: fc2a5,122ad4d33e7c8b88
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!news.maxwell.syr.edu!sn-xt-sjc-05!sn-xt-sjc-06!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Chris Jones <lugnut808@nospam.yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Help calibrating a noise source
Date: Fri, 06 Oct 2006 00:19:16 +0100
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12ib16797jc6318@corp.supernews.com>
References: <1159583160.221099.124060@c28g2000cwb.googlegroups.com>
User-Agent: KNode/0.7.7
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Complaints-To: abuse@supernews.com
Lines: 34
Xref: g2news2.google.com rec.radio.amateur.homebrew:7274

Gary, WB9JPS wrote:

> I built a noise source as described by Bill Sabin, W0IYH in QST (1995)
> and EMRFD. Works fine, but now it's time for calibration. Chatting with
> Bill, he reinforces the notion that the best way to go is comparison
> with another calibrated source, or a direct measurement with a
> calibrated noise figure test set. NoiseCom used to provide this service
> to hams for <$50, but now they claim they have dropped that offer (it's
> about $600, now). So my question is, is there anyone in the SF Bay
> Area (I live in Livermore) who might be able to help? If someone owns a
> source or test set, perhaps we could get together. I'm open to other
> suggestions, too.
>
> FYI, this is primarily for testing HF rcvr performance. I'm building an
> R2-style DC rcvr, and it's turned into a nice research and education
> project, so I go a bit overboard sometimes, but it sure is fun. I'm
> also using an IQPro DDS VFO. I wrote a couple reports on its
> performance that are up on the AA0ZZ website.
>
> This is my first post to this group. There seem to be a lot of talented
> folks lurking out there... Thanks in advance for any help.
>
> 73,
> Gary, WB9JPS

For very low noise frequencies, perhaps you could use a pseudo-random sequence generator made from fast logic clocked at say a hundred MHz, and calculate what the "noise" power spectral density in the output signal is. My only other suggestion is if you can make a 50 Ohm resistive terminator on the end a teflon cable that will go into an oven, then you can just measure the noise temperature directly... as long as you don't want an ENR over 3dB.

Chris

From -2226042260815445025
X-Google-Thread: fc2a5,f9844728a7437632
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!newshub.sdsu.edu!sn-xt-sjc-03!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PSD on a spectrum analyzer.
Date: Thu, 5 Oct 2006 18:24:55 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12ibc3e3ov1nr10@corp.supernews.com>
References: <1160062581.342218.315870@m73g2000cwd.googlegroups.com> <1160066361.921060.189680@k70g2000cwa.googlegroups.com> <12iarnp3a5pekb8@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962

X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 16
Xref: g2news2.google.com rec.radio.amateur.homebrew:7275

Roy,

"Roy Lewallen" <w7el@eznec.com> wrote in message
news:12iarnp3a5pekb8@corp.supernews.com...
> This is covered in detail in _Modern Spectrum Analyzer Theory and
> Applications_ by Morris Engelson (Artech House, 1984).

Does Engelson's idea of "modern" include digitizing spectrum analyzers, which
have already taken over most of the mid- to high-end of test equipment and --
as with digital scopes -- will most likely soon be in all but the lowest of
the low-end of instruments?

Thanks,
---Joel

From -4323423384226068968
X-Google-Thread: fc2a5,72f14db2c738fe73
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-mail
From: "MarkAren" <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: GE paging transmitter 4CX250 question.
Date: 5 Oct 2006 18:25:20 -0700
Organization: http://groups.google.com
Lines: 44
Message-ID: <1160097920.023089.257070@b28g2000cwb.googlegroups.com>
References: <y6mdnQ6Jtbrep7jYnZ2dnUVZ_o2dnZ2d@suscom.com>
NNTP-Posting-Host: 222.155.191.5
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160097925 22251 127.0.0.1 (6 Oct 2006 01:25:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 6 Oct 2006 01:25:25 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=222.155.191.5;
   posting-account=0vCTfAwAAACvA6pNXnot7Fa7QcUC1A3e
Xref: g2news2.google.com rec.radio.amateur.homebrew:7276

Hi,

If you connect the 80k Screen resistor to ground via an ammeter, how much current do you see ? I would expect 26mA.

Are you sure that there arn't any shunt regulators on the screen supply ? Zeners, or an active regulator ? I have never heard of screen to HT without a shunt regulator before...

Regards,

Mark

Gudmundur wrote:
> Hi folks,
>
> I am responsible for the care and feeding of our GE pager transmitter on 150mhz vhf frequency range. I don't have the model number here as I am at home at the moment. It uses a single 4CX250 in the cavity final.
>
> The problem is this, 10 watts output with 10 watts input, Plate voltage is 2100, plate current is very low at 100ma (normal is 270) and the screen voltage is around 60 to 80 volts.
>
> The screen is supplied through an 80k resistor from the 2100 volt supply and has variable resistors to ground to set the actual screen operating point. I have placed as much as 500 volts on the screen circuit externally with the tube removed to check the bypass caps and they seem fine. They withstand the 500vdc without breaking down. The tube is good, we tried it in another cavity (our spare amplifier). The plate circuit is good also. At first I thought I had lost a plate choke or connection causing the screen to draw excess current.
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> I know the screen is drawing excess current causing the screen voltage to fall off. The control grid current looks normal and behaves normally with tuning controls. I don't get it?? How can I have excess screen current and yet have the low plate current? The tank circuit seems normal, the tuning controls appear to work properly, in fact every once in a while the unit will work perfect for a minute or two making 250 watts output, then it goes back to acting weird again.
>
> Anyone ever have a GE vhf amplifier do this? Thanks!!

From -6871171632290618686
X-Google-Thread: fc2a5,633a6fce694d0708,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!c28g2000cwb.googlegroups.com!not-for-mail
From: "Ed Byars" <byars_e@bellsouth.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: New to Ham

Date: 5 Oct 2006 18:39:12 -0700
Organization: http://groups.google.com
Lines: 7
Message-ID: <1160098752.441683.304190@c28g2000cwb.googlegroups.com>
NNTP-Posting-Host: 72.146.13.222
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160098757 24367 127.0.0.1 (6 Oct 2006 01:39:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 6 Oct 2006 01:39:17 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: c28g2000cwb.googlegroups.com; posting-host=72.146.13.222;
   posting-account=NzQQnQ0AAADRrcWU15Xn1ztsDjwybjT0
Xref: g2news2.google.com rec.radio.amateur.homebrew:7277

I am going to buy a radio that I hope will last me many years. I want
to start with a mobile that will also serve as a base station.I am
looking at a YAESU FT-857D.

Any comments on the pros or cons of this as a beginner radio that can
stay with me as I develop my skills?

From 6713160187562329178
X-Google-Thread: fc2a5,f9844728a7437632
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.maxwell.syr.edu!sn-xt-sjc-05!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PSD on a spectrum analyzer.
Date: Thu, 05 Oct 2006 19:46:44 -0700
Organization: EZNEC Antenna Software
Message-ID: <12ibgsn5ll1qt7d@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <1160062581.342218.315870@m73g2000cwd.googlegroups.com>
<1160066361.921060.189680@k70g2000cwa.googlegroups.com>
<12iarnp3a5pekb8@corp.supernews.com> <12ibc3e3ov1nr10@corp.supernews.com>
In-Reply-To: <12ibc3e3ov1nr10@corp.supernews.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 47
Xref: g2news2.google.com rec.radio.amateur.homebrew:7278

Joel Kolstad wrote:
> Roy,

>
> "Roy Lewallen" <w7el@eznec.com> wrote in message
> news:12iarnp3a5pekb8@corp.supernews.com...
>> This is covered in detail in _Modern Spectrum Analyzer Theory and
>> Applications_ by Morris Engelson (Artech House, 1984).
>
> Does Engelson's idea of "modern" include digitizing spectrum analyzers, which
> have already taken over most of the mid- to high-end of test equipment and --
> as with digital scopes -- will most likely soon be in all but the lowest of
> the low-end of instruments?

No, the book was written before those came about. I fudged a little by qualifying my posting with "conventional" spectrum analyzer to exclude newer technologies, but it sounds like "conventional" is rapidly advancing to become the newer types.

I got out of the SA development world just as digital techniques were beginning to develop -- my last patent (# 5,629,703), in fact, dealt with a way of reducing distortion in an A/D converter intended for use in a SA-like instrument. At that time, we were anticipating doing a conventional sweeping down-conversion, then digitizing it at a 25 MHz IF. Predictably, the digitization point has been moving toward the front of the instrument since then.

I haven't followed the technology since, but I'm sure the new ones use sampling techniques combined with an FFT, which is another way of imperfectly representing what the real spectrum is like. (Actually, you can never perfectly represent the spectrum of a real waveform, because any spectrum which is finite in frequency span has to have existed for an infinite time. Any modulated waveform is way outside this category.) Sampling produces its own, different, sorts of artifacts which are different from the ones produced by sweeping, although there are some similarities. You have to be at least as careful, and maybe more so, in interpreting a sampled waveform as one which is from a swept filter.

I'd be surprised if someone hasn't written an equivalent book to cover the new type instruments, although a lot of the material in Morris' books is still valid and teaches a lot about the nature of spectra. Morris was the driving force behind Tektronix's entry into the spectrum analyzer market, and the group's chief engineer and architect for a long time. He'd retired by the time I joined the group, and I only met him when he taught a couple of one-week courses based on his books. He's truly one of the experts in the field.

Roy Lewallen, W7EL

From -8671997831879088200
X-Google-Thread: fc2a5,e51c450bdeff5cda
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!cox.net!news-xfer.cox.net!p01!dukeread05.POSTED!53ab2750!not-for-mail

From: Kerry Miller <kmiller01at@ticnet.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.4) Gecko/20060516 SeaMonkey/1.0.2
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MFJ-1278 software
References: <d2nSg.5541$Go3.1040@dukeread05> <451BD335.6060309@invalid.invalid> <fKyTg.6211$Go3.4500@dukeread05> <451FBB39.5070707@bloomer.net>
In-Reply-To: <451FBB39.5070707@bloomer.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 62
Message-ID: <l0lVg.8624$Go3.2945@dukeread05>
Date: Thu, 05 Oct 2006 23:33:21 -0500
NNTP-Posting-Host: 70.179.148.50
X-Complaints-To: abuse@cox.net
X-Trace: dukeread05 1160109201 70.179.148.50 (Fri, 06 Oct 2006 00:33:21 EDT)
NNTP-Posting-Date: Fri, 06 Oct 2006 00:33:21 EDT
Organization: Cox Communications
Xref: g2news2.google.com rec.radio.amateur.homebrew:7279

Thanks, that might be it, I'll check into it. I had the old DOS version, it worked ok but had a very strange copy protection scheme that made it hard to use.

Thanks,
Kerry, WD5ABC

Scott wrote:
> A bit expensive, but is this what you are looking for?
>
> http://www.mfjenterprises.com/products.php?prodid=MFJ-1289W
>
> It says it is for Windows and works with the 1278 (as well as some others)
>
> Scott
> N0EDV
>
> Kerry Miller wrote:
>
>> Doug Smith W9WI wrote:
>>
>>> Kerry Miller wrote:
>>>
>>>> I've been off the air for several years and am getting back on
>>>> finally. I have an MFJ-1278B TNC and have used it with a normal
>>>> terminal program on Windows (hyperterm) and Linux (minicom) but
>>>> don't have any software anymore that will run on XP or Linux. Is
>>>> there any software out there that supports the other modes this TNC
>>>> will do like wefax and sstv? I have used it for rtty, cw and packet
>>>> but don't have anything that will work with the graphical modes.
>>>>

```
>>>> Any suggestions?  Will any of the sound card software work with a
>>>> TNC instead of a soundcard?
>>>
>>>
>>> I bought one of these some years back.  I made the same search you
>>> did and came up empty-handed.  I've been happy with Baudot and VHF
>>> packet so never really got too serious about the other modes.
>>>
>>> I did hook up the accessory audio I/O on my rig to the soundcard in
>>> the computer, with the intent of making unattended recordings (for AM
>>> BCB DXing - works great!) and using the computer as a voice keyer.
>>> Turns out the same connections are appropriate for PSK31 and other
>>> soundcard modes.  Very simple (one transistor, one resistor) serial
>>> port interfaces are possible to let the computer PTT the radio, or
>>> you can even buy one preassembled, and if you don't have a soundcard
>>> they're pretty cheap.
>>>
>>> I still use the 1278 for Baudot.
>>
>>
>> Thanks, that's what I was afraid of.  I, too, use it for rtty, packet,
>> amtor, pactor, etc. but I was looking for a way to use the fax and
>> sstv modes.  It sounds like I might be out of luck, maybe I can find a
>> sound card program to do those modes.  I guess worst case I could find
>> my old software and load up dos on an old machine if I can still find
>> it all. MFJ doesn't seem to support it anymore, they don't seem to
>> have any windows software for it.
>>
>> Thanks,
>> Kerry, WD5ABC


From -6012343691373151314
X-Google-Thread: fc2a5,633a6fce694d0708
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 06 Oct 2006 05:59:30 -0500
Date: Fri, 06 Oct 2006 10:59:29 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: New to Ham
References: <1160098752.441683.304190@c28g2000cwb.googlegroups.com>
In-Reply-To: <1160098752.441683.304190@c28g2000cwb.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <5dydndiwfsmOqrvYnZ2dnUVZ_u-dnZ2d@bright.net>
```

Lines: 32
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-yff3WlIg5HeZvptmjMinZjyp5Q+kJ/43W/0Qroh88y9nGUDiyWMhItE0vjpHHUTGBOjQoInVAi4cOhh!oLsyE+oehxE0g7i/cG8VTPyhGGgPd7e3ZUuYOwQ2pPhxKieYBC94Vo1cAOXVci4Nj21zsgY4P30z!ZFsDCuuR4g==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7280

I personally love my FT-857. Mine is the original model, not the "D" model, but I modified it for full transmit (I use it with transverters I build to get on other bands...right now I have transverters for 222 and 902) so it should work on the newer 60M band but I haven't tried it there.

It is a very small rig with pretty big features! When I ordered mine, they threw in the DSP board. I've never had a rig with DSP, but it sure does work nice!

I don't think you'd do much better for an all around rig (starter or advanced) for the money! Hopefully, others will chime in here as well.

You didn't mention what license class you have, but the rig would be great for any class. It has 100 Watts out on HF and 6M, 50W on 2M and 20W on 430. My only wish is that they would have built 222 in as well, but I built a really simple transverter for 222 (designed by W1GHZ... http://www.w1ghz.org)...I use mine at home, portable and mobile. No problems and I've had it for about 3 years now.

Happy hammin' !!!

Scott
N0EDV

Ed Byars wrote:
> I am going to buy a radio that I hope will last me many years. I want to start with a mobile that will also serve as a base station.I am looking at a YAESU FT-857D.
>
> Any comments on the pros or cons of this as a beginner radio that can stay with me as I develop my skills?
>

From -2184757153629657347
X-Google-Thread: fc2a5,633a6fce694d0708
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news.litech.org!not-for-mail

From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: New to Ham
Date: Fri, 6 Oct 2006 13:07:32 +0000 (UTC)
Organization: Me?
Lines: 28
Sender: mikea@mikea.ath.cx
Message-ID: <eg5kek$fkj$2@puck.litech.org>
References: <1160098752.441683.304190@c28g2000cwb.googlegroups.com>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1160140052 16019 68.15.203.64 (6 Oct 2006 13:07:32 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Fri, 6 Oct 2006 13:07:32 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:7281

On 5 Oct 2006 18:39:12 -0700, Ed Byars <byars_e@bellsouth.net> wrote in <1160098752.441683.304190@c28g2000cwb.googlegroups.com>:

> I am going to buy a radio that I hope will last me many years. I want to start with a mobile that will also serve as a base station.I am looking at a YAESU FT-857D.

> Any comments on the pros or cons of this as a beginner radio that can stay with me as I develop my skills?

I really like my FT-857, and would buy another to put in the other car if I had the cash to spare. Be sure to buy the separation kit and put the control panel where you can see it without having to divert your eyes from the road, and give *serious* thought to the fancy handmike with all the controls on it except Squelch.

The 857's big brother, the FT-857, makes a good shack rig, too, and the two radios use the same programming software, so that you can have the same memory settings on both.

The 857 has a nice, sensitive receiver, and I've worked Italy, Germany, Hong Kong and Taiwan mobile from central Oklahoma. It should really shine when the sunspot cycle gets a bit farther away from the minimum.

But it's not really homebrew.

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From 2856197145594022865
X-Google-Thread: fc2a5,ae3c04e78fac56ab,start
X-Google-Attributes: gidfc2a5,public

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news.litech.org!not-for-mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Foxhunting controller/transmitter
Date: Fri, 6 Oct 2006 13:13:41 +0000 (UTC)
Organization: Me?
Lines: 16
Sender: mikea@mikea.ath.cx
Message-ID: <eg5kq5$fkj$3@puck.litech.org>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1160140421 16019 68.15.203.64 (6 Oct 2006 13:13:41 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Fri, 6 Oct 2006 13:13:41 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:7282
```

Anyone got pointers to a good *and* inexpensive 2m FM foxhunting xmtr with integrated controller? Ramsey used to make just exactly what I want, and so (of course) they've discontinued it.

I'd like it to do a (programmable) CW ID, with a programmable delay from a minute or so up to 30 minutes, in roughly 1-minute steps. Xtal control is OK, but a good, stable VFO (DDS or DDS + PLL, rather than PLL alone) would be better. Settable power level would be good, too, and I can do with max power about 1 W.

Thanks and 73, de

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

```
From -4444968403473613597
X-Google-Thread: fc2a5,633a6fce694d0708
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news.litech.org!not-for-mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: New to Ham
Supersedes: <eg5kek$fkj$2@puck.litech.org>
Date: Fri, 6 Oct 2006 13:15:06 +0000 (UTC)
Organization: Me?
Lines: 28
Sender: mikea@mikea.ath.cx
```

```
Message-ID: <eg5ksq$fkj$4@puck.litech.org>
References: <1160098752.441683.304190@c28g2000cwb.googlegroups.com>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1160140506 16019 68.15.203.64 (6 Oct 2006 13:15:06 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Fri, 6 Oct 2006 13:15:06 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:7283
```

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Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

```
From -7819379888689111438
X-Google-Thread: fc2a5,ae3c04e78fac56ab
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!gnilink.net!
cycny01.gnilink.net!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe08.lga.POSTED!53ab2750!not-for-mail
From: "Yuri Blanarovich" <K3BU@optonline.net>
Newsgroups: rec.radio.amateur.homebrew
```

References: <eg5kq5$fkj$3@puck.litech.org>
Subject: Re: Foxhunting controller/transmitter
Lines: 26
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2869
Message-ID: <PYsVg.73$Jl6.13@newsfe08.lga>
X-Complaints-To: abuse@cv.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
adnpoonaeilogjoikannfilpcpbbolnmopklcmmlaicehpchkcgjjkmbhgfpbklkjgiapnbfapjnahglmb
gkbadombccimhaobmjojmldkhmplmiepceflgcendndaflhgindeflifgphkdl
NNTP-Posting-Date: Fri, 06 Oct 2006 06:35:43 MST
Organization: Optimum Online
Date: Fri, 6 Oct 2006 09:35:30 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:7284

In absence of dedicated controller, you could use one of the memory keyers,
AEA comes to mind. They have beacon mode, where you can program message and
set the repetition time.

73

"Mike Andrews" <mikea@mikea.ath.cx> wrote in message
news:eg5kq5$fkj$3@puck.litech.org...
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> want, and so (of course) they've discontinued it.
>
> I'd like it to do a (programmable) CW ID, with a programmable delay
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> PLL alone) would be better. Settable power level would be good, too,
> and I can do with max power about 1 W.
>
> Thanks and 73, de
>
> --
> Mike Andrews, W5EGO
> mikea@mikea.ath.cx
> Tired old sysadmin

From 6164137523830953328
X-Google-Thread: fc2a5,ae3c04e78fac56ab
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.litech.org!not-for-mail

From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Foxhunting controller/transmitter
Date: Fri, 6 Oct 2006 13:44:40 +0000 (UTC)
Organization: Me?
Lines: 38
Sender: mikea@mikea.ath.cx
Message-ID: <eg5mk8$fkj$5@puck.litech.org>
References: <eg5kq5$fkj$3@puck.litech.org> <PYsVg.73$Jl6.13@newsfe08.lga>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1160142280 16019 68.15.203.64 (6 Oct 2006 13:44:40 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Fri, 6 Oct 2006 13:44:40 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:7285

On Fri, 6 Oct 2006 09:35:30 -0400, Yuri Blanarovich <K3BU@optonline.net> wrote in <PYsVg.73$Jl6.13@newsfe08.lga>:

> In absence of dedicated controller, you could use one of the memory keyers, AEA comes to mind. They have beacon mode, where you can program message and set the repetition time.

> 73

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>>
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Thanks, Yuri. If nothing else comes up, I may go to that, or roll my own.

I'm looking for something that doesn't involve using an HT. I'd lots rather use the HT on the fox hunt, and not risk having it stolen. Losing a transmitter/controller would chap me considerably, but losing my HT would be _bad_.

If I wind up doing the full-tilt-boogie 5-transmitter foxhunt, I'd really prefer not to buy 4 more HTs, for that matter. 5 ammo cans, each with a transmitter/controller and a battery inside and a BNC or SMA jack through the lid, would be a lot more affordable.

73, de

--
Mike Andrews, W5EGO
mikea@mikea.ath.cx
Tired old sysadmin

From -8239988235262036427
X-Google-Thread: fc2a5,ae3c04e78fac56ab
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
Message-ID: <452665CC.6000608@invalid.invalid>
From: Doug Smith W9WI <w9wi@invalid.invalid>
Reply-To: w9wi@invalid.invalid
Organization: Ham Radio W9WI
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.0.1) Gecko/20020830
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Foxhunting controller/transmitter
References: <eg5kq5$fkj$3@puck.litech.org> <PYsVg.73$Jl6.13@newsfe08.lga>
<eg5mk8$fkj$5@puck.litech.org>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 20
Date: Fri, 06 Oct 2006 14:18:59 GMT
NNTP-Posting-Host: 4.152.81.6
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1160144339 4.152.81.6 (Fri, 06 Oct 2006
07:18:59 PDT)
NNTP-Posting-Date: Fri, 06 Oct 2006 07:18:59 PDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7286

Mike Andrews wrote:
> I'm looking for something that doesn't involve using an HT. I'd lots
> rather use the HT on the fox hunt, and not risk having it stolen.
> Losing a transmitter/controller would chap me considerably, but losing
> my HT would be _bad_.

I would think you could get *used* HTs pretty cheap.

For that service, you don't need fancy scanning features etc. --
something like an old IC-2AT would do fine - and since you're going to
need to power the keyer anyway you don't really need a workable battery
with the HT.

I would think you could find something useful for less than the cost of
a new transmitter kit or the parts to build one.
--
Doug Smith W9WI

Pleasant View (Nashville), TN EM66
http://www.w9wi.com

From 8320147410597345380
X-Google-Thread: fc2a5,5d1c8786b3fe3f80,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc07.POSTED!d89a2db8!
not-for-mail
From: "Dale Parfitt" <par@parelectronics.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: F.A. LAST DAY HOMEBREW 10M FM XCVR
Lines: 3
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <jDtVg.32$2l5.28@trnddc07>
Date: Fri, 06 Oct 2006 14:21:03 GMT
NNTP-Posting-Host: 63.19.174.74
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc07 1160144463 63.19.174.74 (Fri, 06 Oct 2006 10:21:03 EDT)
NNTP-Posting-Date: Fri, 06 Oct 2006 10:21:03 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7287

http://electronics.search.ebay.com/10m-fm_Radios-CB-Ham-Shortwave_W0QQcatrefZC6QQcoactionZcompareQQcoentrypageZsearchQQcopagenumZ1QQfposZ28736QQfromZR10QQfsooZ2QQfsopZ2QQftrtZ1QQftrvZ1QQsacatZ1500QQsadisZ200QQsargnZQ2d1QQsaslcZ2QQsbrftogZ1QQsofocusZunknown

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From 8353801391659057438
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X-Google-Language: ENGLISH,ASCII-7-bit
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nntp.giganews.com!local01.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 06 Oct 2006 10:35:53 -0500
From: Joe McElvenney <ximac@btinternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: GE paging transmitter 4CX250 question.
Date: Fri, 06 Oct 2006 16:35:48 +0100
Message-ID: <t9tci297rjlek5n42bvah61k492j56qvsu@4ax.com>
References: <y6mdnQ6Jtbrep7jYnZ2dnUVZ_o2dnZ2d@suscom.com>
X-Newsreader: Forte Agent 4.0/32.1071

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MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 24
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uVciXOTYKPBoC+IPj5dOnS6dr3hvDk45mr5oCQxt1r5guKrpqQAlCXltq3tB!6IS9Wrsc9VDXvw6zsCrZ/
YUCU0br+XJT86dPyF66gJshGnx/oYE+FYgAmLW7+/0SbLSj
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7288
```

Hi,

> I know the screen is drawing excess current causing the screen
>voltage to fall off. The control grid current looks normal and
>behaves normally with tuning controls. I don't get it?? How can
>I have excess screen current and yet have the low plate current?
>The tank circuit seems normal, the tuning controls appear to work
>properly, in fact every once in a while the unit will work perfect
>for a minute or two making 250 watts output, then it goes back to
>acting weird again.

I would say that the screen current is high because the plate voltage is swinging down too far (i.e. there is little or no loading on the tank circuit or it has become mis-tuned). One possibility, if it has one, is an open plate blocking capacitor.

BTW, the screen current on that series of tubes is often used as a tuning aid; some metering circuits even having a negative screen current position for when the grid gets too hot and emits electrons.

Cheers - Joe, G3LLV

```
From -1988034914411300795
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-
online.de!newsfeed.arcor.de!newsspool3.arcor-online.net!news.arcor.de.POSTED!not-
for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
```

<e7fqh2hvvmum7rigqhl3g56pdbd0kt8mep@4ax.com>
<pan.2006.09.29.21.12.09.921875@googlemail.com>
<12hrdl9f7ofja28@corp.supernews.com> <pi4sh2l4tar5e46m0872nhadvfcsuif3mg@4ax.com>
Subject: Re: VLF from the amp
Date: Fri, 6 Oct 2006 17:24:40 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 25
Message-ID: <452678b0$0$30584$9b4e6d93@newsspool4.arcor-online.net>
Organization: Arcor
NNTP-Posting-Date: 06 Oct 2006 17:39:28 CEST
NNTP-Posting-Host: 320ac6ca.newsspool4.arcor-online.net
X-Trace:
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X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7289

You can use ferrit antenna rods. That works for receivers very fine in VLF band and for transmitters too - as long as the ferrit won't go into saturation.
That is a magnetic antenna and it is much shorter than the equivalent mentioned.

- Henry

"Paul Keinanen" <keinanen@sci.fi> schrieb im Newsbeitrag
news:pi4sh2l4tar5e46m0872nhadvfcsuif3mg@4ax.com...
> On Fri, 29 Sep 2006 17:13:28 -0700, "Joel Kolstad"
> <JKolstad71HatesSpam@yahoo.com> wrote:
>
> >No. The problem is that wavelength of a, say, 10kHz signal is 3km in
free
> >space.
>
> This must be a typo, since the free space wavelength at 10 kHz is 30
> km.
>
> Paul OH3LWR
>

From -4197641750159278677
X-Google-Thread: fc2a5,ae3c04e78fac56ab
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!

nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 06 Oct 2006 10:53:17 -0500
Date: Fri, 06 Oct 2006 08:53:40 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Foxhunting controller/transmitter
References: <eg5kq5$fkj$3@puck.litech.org>
In-Reply-To: <eg5kq5$fkj$3@puck.litech.org>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <hqednbfn7pNw5rvYnZ2dnUVZ_tmdnZ2d@web-ster.com>
Lines: 28
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X-Trace: sv3-1Rah4rKB0b8PGSqsOnCDKmLrMlTSR0Vnzz88yF89M9HoYBGr1s7ByzUnyheAoBnV9z/
mcpQmLIChTyX!4cFU2GBwp94wbvd9/
dxwYfGOv2c3Lckdi4Tl1tx1t0Agygk80sLcFCsSvHkKTMRDXlVJLpvIuG5u!mjvjaqAJGT3dN+9Z
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7290

Mike Andrews wrote:

> Anyone got pointers to a good *and* inexpensive 2m FM foxhunting xmtr
> with integrated controller? Ramsey used to make just exactly what I
> want, and so (of course) they've discontinued it.
>
> I'd like it to do a (programmable) CW ID, with a programmable delay
> from a minute or so up to 30 minutes, in roughly 1-minute steps. Xtal
> control is OK, but a good, stable VFO (DDS or DDS + PLL, rather than
> PLL alone) would be better. Settable power level would be good, too,
> and I can do with max power about 1 W.
>
> Thanks and 73, de
>

Do a web search for the "Montreal Fox". I've built one that works OK.
The circuit board that's available is quite rough, but the thing is
buildable.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

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From -6972907230470717623
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!newsfeed1.funet.fi!newsfeeds.funet.fi!feeder1.news.jippii.net!reader1.news.jippii.net!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VLF from the amp
Message-ID: <dt4di25hil16nh3fmqduga4v0cc4q218dc@4ax.com>
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
<e7fqh2hvvmum7rigqhl3g56pdbd0kt8mep@4ax.com>
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<12hrdl9f7ofja28@corp.supernews.com> <pi4sh2l4tar5e46m0872nhadvfcsuif3mg@4ax.com>
<452678b0$0$30584$9b4e6d93@newsspool4.arcor-online.net>
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MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 25
Date: Fri, 06 Oct 2006 20:49:38 +0300
NNTP-Posting-Host: 195.197.6.106
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.jippii.net 1160156771 195.197.6.106 (Fri, 06 Oct 2006 20:46:11 EEST)
NNTP-Posting-Date: Fri, 06 Oct 2006 20:46:11 EEST
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:7291

On Fri, 6 Oct 2006 17:24:40 +0200, "Henry Kiefer" <otc_friend@gmx.net>
wrote:

>You can use ferrit antenna rods. That works for receivers very fine in VLF
>band and for transmitters too - as long as the ferrit won't go into
>saturation.
>That is a magnetic antenna and it is much shorter than the equivalent
>mentioned.

Ferrite rod antennas with perhaps -50 to -60 dB gain are useful since the extremely high band noise at VLF. It does not matter very much if both the wanted signal and the band noise is attenuated by 60 dB, as long as the wanted signal at the antenna terminals is stronger than the preamplifier thermal noise.

For transmitting, such antenna would be ridiculous.

In order to get 1 W EiRP as allowed on the 135 kHz amateur band in many countries, you would have to feed 1 MW into an antenna with -60

dB gain. The ferrite rod would saturate at much lower power levels
such as 1 W or a few mW. Most likely you might get a few nW radiated
power without saturating the rod.

Paul OH3LWR

```
From -715576001302131783
X-Google-Thread: fc2a5,f9844728a7437632
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-
mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PSD on a spectrum analyzer.
Date: 6 Oct 2006 11:21:05 -0700
Organization: http://groups.google.com
Lines: 98
Message-ID: <1160158865.841736.24210@m73g2000cwd.googlegroups.com>
References: <1160062581.342218.315870@m73g2000cwd.googlegroups.com>
   <1160066361.921060.189680@k70g2000cwa.googlegroups.com>
   <12iarnp3a5pekb8@corp.supernews.com>
   <12ibc3e3ov1nr10@corp.supernews.com>
   <12ibgsn5ll1qt7d@corp.supernews.com>
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X-Trace: posting.google.com 1160158871 15735 127.0.0.1 (6 Oct 2006 18:21:11 GMT)
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In-Reply-To: <12ibgsn5ll1qt7d@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7292
```

Roy Lewallen wrote:
> Joel Kolstad wrote:
> > Roy,
> >
> > "Roy Lewallen" <w7el@eznec.com> wrote in message
> > news:12iarnp3a5pekb8@corp.supernews.com...
> >> This is covered in detail in _Modern Spectrum Analyzer Theory and
> >> Applications_ by Morris Engelson (Artech House, 1984).
> >
> > Does Engelson's idea of "modern" include digitizing spectrum analyzers, which
> > have already taken over most of the mid- to high-end of test equipment and --

> > as with digital scopes -- will most likely soon be in all but the lowest of the low-end of instruments?
>
> No, the book was written before those came about. I fudged a little by qualifying my posting with "conventional" spectrum analyzer to exclude newer technologies, but it sounds like "conventional" is rapidly advancing to become the newer types.
>
> I got out of the SA development world just as digital techniques were beginning to develop -- my last patent (# 5,629,703), in fact, dealt with a way of reducing distortion in an A/D converter intended for use in a SA-like instrument. At that time, we were anticipating doing a conventional sweeping down-conversion, then digitizing it at a 25 MHz IF. Predictably, the digitization point has been moving toward the front of the instrument since then.
>
> I haven't followed the technology since, but I'm sure the new ones use sampling techniques combined with an FFT, which is another way of imperfectly representing what the real spectrum is like. (Actually, you can never perfectly represent the spectrum of a real waveform, because any spectrum which is finite in frequency span has to have existed for an infinite time. Any modulated waveform is way outside this category.) Sampling produces its own, different, sorts of artifacts which are different from the ones produced by sweeping, although there are some similarities. You have to be at least as careful, and maybe more so, in interpreting a sampled waveform as one which is from a swept filter.
>
> I'd be surprised if someone hasn't written an equivalent book to cover the new type instruments, although a lot of the material in Morris' books is still valid and teaches a lot about the nature of spectra. Morris was the driving force behind Tektronix's entry into the spectrum analyzer market, and the group's chief engineer and architect for a long time. He'd retired by the time I joined the group, and I only met him when he taught a couple of one-week courses based on his books. He's truly one of the experts in the field.
>
> Roy Lewallen, W7EL

Indeed, we've been making spectral analysis equipment using FFT techniques since the early 80's or even a little longer. I believe the HP3577 from that era uses digital IF techniques, though I never got familiar with its "guts." Things have come a very long way since then. Just as Roy says, there's a whole different set of things to understand to get accurate, meaningful measurements out of them. Even knowing what I do, I still get surprised by the instrument's response to particular signals sometimes.

With respect to signals in finite bandwidths having to have existed forever, in theory that's true, but in practice, noise from sources beyond the signal of interest will always overwhelm those portions of the signal that are very far from its main power, for a huge proportion of practical signals. We'll keep pushing for higher spurious-free dynamic range and lower noise floors in the instruments, but it's probably fair to say they'll never be perfect, and signals are essentially always polluted by external noise sources as well, if only thermal noise in external resistances.

I believe you can find some information on the Agilent website about factors to consider when making FFT-based spectral measurements. I probably have a pdf or two hiding somewhere in my archives covering some of this, too.

Modern analyzers are backed up by some very impressive software that can help you analyze all sorts of things about modulation, signal variation with time, etc. It goes FAR beyond simple spectral displays of FFT results.

One of the key features of FFT-based spectral analysis is that you don't miss as much as a swept analyzer with narrow IF does. For example, if you have a signal that keys on for a millisecond out of every second or so at 100MHz, it might indeed be radiating a broad spectrum but there's observable energy only within a few kilohertz of 100MHz. An analyzer sweeping 50-150MHz with a 1kHz resolution bandwidth will take quite a while to do its sweep, several seconds, and may very well not be "looking at" 100Mhz, or close enough to it, at the time the pulsed signal comes up to be able to see it. But an FFT-based analyzer that's sampling fast enough to capture the whole 50-150MHz band at once can easily find the 100MHz signal every time it pulses on. The FFT is, quite literally, a large bank of parallel filters/energy detectors at evenly spaced frequencies. In combination with a "windowing" function, the effective shape of those filters can be adjusted.

Cheers,
Tom

From 6277887568703066495
X-Google-Thread: fc2a5,f9844728a7437632
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
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From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PSD on a spectrum analyzer.
Date: Fri, 6 Oct 2006 13:20:34 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12idekiaq151n81@corp.supernews.com>
References: <1160062581.342218.315870@m73g2000cwd.googlegroups.com> <1160066361.921060.189680@k70g2000cwa.googlegroups.com> <12iarnp3a5pekb8@corp.supernews.com> <12ibc3e3ov1nr10@corp.supernews.com> <12ibgsn5ll1qt7d@corp.supernews.com>
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X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-Complaints-To: abuse@supernews.com
Lines: 34
Xref: g2news2.google.com rec.radio.amateur.homebrew:7293

Hi Roy,

That's a lot of extra detail; thanks!

"Roy Lewallen" <w7el@eznec.com> wrote in message
news:12ibgsn5ll1qt7d@corp.supernews.com...

> Morris was the driving force behind Tektronix's entry into the spectrum
> analyzer market, and the group's chief engineer and architect for a long
> time. He'd retired by the time I joined the group, and I only met him when
> he taught a couple of one-week courses based on his books. He's truly one of
> the experts in the field.

Was Dennis Rosenauer around while you were still at Tek? Last I heard (a couple of years ago), he was working on their spectrum analyzers. As you're probably aware, Tek pretty much dumped spectrum analyzer development for awhile in the '90s, and something like 3-4 years ago hired Elaine May to be the new product group manager... she having been layed off when *Agilent* decided to dump *their* spectrum analyzer development! Sheesh. Rumor had it she was trying to get a a bunch of her former co-workers from Agilent to join her up at Tek.

These days Tek and Agilent seem to have realized that SAs are rather important, albeit with Agilent pursuing a more "traditional" architecture (very high frequencies, mix down to IF, digitize there) but Tektronix utilizing their high-speed ADCs from their scopes to just digitize directly and compute FFTs -- this approach limiting them to lower frequencies with noticeably less dynamic range, but giving them the advantage of being able to trigger on arbitrary masks withoug ever "missing" one.

---Joel

P.S. -- Planning to visit Swaptober Fest on the 21st?

From -3795700492579911221
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!news.belwue.de!newsfeed.ision.net!newsfeed2.easynews.net!ision!newsfeed.arcor.de!newsspool4.arcor-online.net!news.arcor.de.POSTED!not-for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>

Newsgroups: rec.radio.amateur.homebrew
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
<e7fqh2hvvmum7rigqhl3g56pdbd0kt8mep@4ax.com>
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<12hrdl9f7ofja28@corp.supernews.com> <pi4sh2l4tar5e46m0872nhadvfcsuif3mg@4ax.com>
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Date: Fri, 6 Oct 2006 22:27:47 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 41
Message-ID: <4526be69$0$13102$9b4e6d93@newsspool2.arcor-online.net>
Organization: Arcor
NNTP-Posting-Date: 06 Oct 2006 22:36:57 CEST
NNTP-Posting-Host: dc9dc766.newsspool2.arcor-online.net
X-Trace:
DXC=9\Ah<Y:R>:JI7_^6>c20JA9EHlD;3YcB4Fo<]lROoRA4nDHegD_]REb]Bl;i4U2<GVX4M12AVlMKH
Yl5Dd>ETLCI5\2J:Q0cDA4T]kVfjjR_B
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7294

Sure Paul. It is as a transmitting antenna for short-range only. Do you know
about:
http://www.ancom.no/
products? They claim their ferrite rod styled antenna works as good
transmitter. See their patent application.

regards -
Henry

"Paul Keinanen" <keinanen@sci.fi> schrieb im Newsbeitrag
news:dt4di25hil16nh3fmqduga4v0cc4q218dc@4ax.com...
> On Fri, 6 Oct 2006 17:24:40 +0200, "Henry Kiefer" <otc_friend@gmx.net>
> wrote:
>
> >You can use ferrit antenna rods. That works for receivers very fine in
VLF
> >band and for transmitters too - as long as the ferrit won't go into
> >saturation.
> >That is a magnetic antenna and it is much shorter than the equivalent
> >mentioned.
>
> Ferrite rod antennas with perhaps -50 to -60 dB gain are useful since
> the extremely high band noise at VLF. It does not matter very much if
> both the wanted signal and the band noise is attenuated by 60 dB, as
> long as the wanted signal at the antenna terminals is stronger than
> the preamplifier thermal noise.
>

> For transmitting, such antenna would be ridiculous.
>
> In order to get 1 W EiRP as allowed on the 135 kHz amateur band in
> many countries, you would have to feed 1 MW into an antenna with -60
> dB gain. The ferrite rod would saturate at much lower power levels
> such as 1 W or a few mW. Most likely you might get a few nW radiated
> power without saturating the rod.
>
> Paul OH3LWR
>

```
From -9026166839859125451
X-Google-Thread: fc2a5,f9844728a7437632
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: PSD on a spectrum analyzer.
Date: 6 Oct 2006 13:58:36 -0700
Organization: http://groups.google.com
Lines: 30
Message-ID: <1160168316.507130.68170@m7g2000cwm.googlegroups.com>
References: <1160062581.342218.315870@m73g2000cwd.googlegroups.com>
   <1160066361.921060.189680@k70g2000cwa.googlegroups.com>
   <12iarnp3a5pekb8@corp.supernews.com>
   <12ibc3e3ov1nr10@corp.supernews.com>
   <12ibgsn5ll1qt7d@corp.supernews.com>
   <12idekiaq151n81@corp.supernews.com>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160168321 7762 127.0.0.1 (6 Oct 2006 20:58:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 6 Oct 2006 20:58:41 +0000 (UTC)
In-Reply-To: <12idekiaq151n81@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7295
```

Joel Kolstad wrote:
> Hi Roy,
>
> That's a lot of extra detail; thanks!

```
>
> "Roy Lewallen" <w7el@eznec.com> wrote in message
> news:12ibgsn5ll1qt7d@corp.supernews.com...
> > Morris was the driving force behind Tektronix's entry into the spectrum
> > analyzer market, and the group's chief engineer and architect for a long
> > time. He'd retired by the time I joined the group, and I only met him when
> > he taught a couple of one-week courses based on his books. He's truly one of
> > the experts in the field.
>
> Was Dennis Rosenauer around while you were still at Tek?  Last I heard (a
> couple of years ago), he was working on their spectrum analyzers.  As you're
> probably aware, Tek pretty much dumped spectrum analyzer development for
> awhile in the '90s, and something like 3-4 years ago hired Elaine May to be
> the new product group manager... she having been layed off when *Agilent*
> decided to dump *their* spectrum analyzer development!  Sheesh.
...

Sheesh, indeed.  Where did you hear _that_?  Lots of shrinking happened
back then (and not just in Agilent, for sure), but it would certainly
be a stretch to say that they "dumped their spectrum analyzer
development."  That's a pretty gross misrepresentation of what went on.

Cheers,
Tom




From 5650453297289443940
X-Google-Thread: fc2a5,af56f8f72d75c08,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news2.google.com!news.glorb.com!
proxad.net!193.252.118.146.MISMATCH!news.wanadoo.fr!news.wanadoo.fr!not-for-mail
X-Newsreader:      NNTP SCRIBBLER
Content-Type: text/html;
From: melanie@franceweb.com
ReplyTo: melanie@franceweb.com
Subject: FEMME MARIEES DELAISSEES LA CHATTE EN FEU
Newsgroups: rec.radio.amateur.homebrew
Date: 06 Oct 2006 22:27:02 GMT
Lines: 7
Message-ID: <4526d835$0$27369$ba4acef3@news.orange.fr>
Organization: les newsgroups par Orange
NNTP-Posting-Date: 07 Oct 2006 00:27:02 CEST
NNTP-Posting-Host: 193.248.68.202
X-Trace: 1160173622 news.orange.fr 27369 193.248.68.202:3301
X-Complaints-To: abuse@orange.fr
Xref: g2news2.google.com rec.radio.amateur.homebrew:7296


<html>
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```

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tr><tr><td width="100%" bgcolor="#000000"><center><a href="http://www.e-
advertize.com/index.php?choix=NNTPScribbler&Langue=en">This message was sent with NNTP Scribbler (www.e-
advertize.com).</center></td></tr><tr><td height="4"
bgcolor="#000000"></td></tr></table></center>

From -3330031248340177869
X-Google-Thread: 108122,6f6a9f9d8a6f2fef,start
X-Google-Thread: fc2a5,6f6a9f9d8a6f2fef,start
X-Google-Thread: 10bf43,6f6a9f9d8a6f2fef,start
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone.austin.rr.com!news.rr.com!
tornado.texas.rr.com.POSTED!53ab2750!not-for-mail
From: "U-Know-Who" <no-one@nowhere.com>
Newsgroups:
rec.radio.amateur,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio
.amateur.policy
Subject: Code, for SC
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <K_AVg.14606$5o5.4494@tornado.texas.rr.com>
Date: Fri, 06 Oct 2006 22:43:54 GMT
NNTP-Posting-Host: 67.10.92.242
X-Complaints-To: abuse@rr.com
X-Trace: tornado.texas.rr.com 1160174634 67.10.92.242 (Fri, 06 Oct 2006 17:43:54
CDT)
NNTP-Posting-Date: Fri, 06 Oct 2006 17:43:54 CDT
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.equipment:6582
rec.radio.amateur.homebrew:7297 rec.radio.amateur.policy:48958

I have an idea. This should thin the ranks of amateurs and let Big Brother have the bands as is desired. We all know the FCC wants to sell the bands to the highest bidder. In addition to the code requirement, lets have proficiency testing in SSB, FM, RTTY, PSK-31 and Packet. That should just about kill the code proponents off, as they are mostly too old, addled, and unable to learn. That way, even they won't be able to use *their* bands without these proficiencies.

Sounds like a plan, eh?

HTH

From -3833792951377144983
X-Google-Thread: 108122,6f6a9f9d8a6f2fef
X-Google-Thread: fc2a5,6f6a9f9d8a6f2fef
X-Google-Thread: 10bf43,6f6a9f9d8a6f2fef
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 06 Oct 2006 19:10:51 -0500
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups:
rec.radio.amateur,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio
.amateur.policy
References: <K_AVg.14606$5o5.4494@tornado.texas.rr.com>
Subject: Re: Code, for SC
Date: Fri, 6 Oct 2006 20:10:37 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <AKydnaOKRqIWbbvYnZ2dnUVZ_tGdnZ2d@comcast.com>
Lines: 22
NNTP-Posting-Host: 68.61.218.179
X-Trace: sv3-u8x55FrE24X5Q2ARaWKpT0MLAkqSzIkhCkJYer+FSvxG/A/
vW1Oy0Y9qByTo0iPjGF4W5XP4PlYwk/d!
uyHk3lSBDu0U9hgQVRde6MLp5AYQTq9XK5iJiL69MlkH+4sPjkNjs5OFMANcwkHb9PmPxh9MnG09!
T78rX7TtFZSFvtEJ
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.equipment:6583
rec.radio.amateur.homebrew:7298 rec.radio.amateur.policy:48960

"U-Know-Who" <no-one@nowhere.com> wrote in message
news:K_AVg.14606$5o5.4494@tornado.texas.rr.com...
>I have an idea. This should thin the ranks of amateurs and let Big Brother
>have the bands as is desired. We all know the FCC wants to sell the bands
>to the highest bidder. In addition to the code requirement, lets have
>proficiency testing in SSB, FM, RTTY, PSK-31 and Packet. That should just
>about kill the code proponents off, as they are mostly too old, addled, and
>unable to learn. That way, even they won't be able to use *their* bands
>without these proficiencies.
>

> Sounds like a plan, eh?
>
> HTH

And just who do you think developed these modes? How new do you think these
modes are? It seems like everyone I contact on the "new" mode of PSK31 is
retired and has been for many years.

From -1485093137948684923
X-Google-Thread: 108122,6f6a9f9d8a6f2fef
X-Google-Thread: fc2a5,6f6a9f9d8a6f2fef
X-Google-Thread: 10bf43,6f6a9f9d8a6f2fef
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-mail
From: "an old friend" <kb9rqz@hotmail.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: Code, for SC
Date: 6 Oct 2006 17:30:51 -0700
Organization: http://groups.google.com
Lines: 15
Message-ID: <1160181051.207519.101700@e3g2000cwe.googlegroups.com>
References: <K_AVg.14606$5o5.4494@tornado.texas.rr.com>
   <AKydnaOKRqIWbbvYnZ2dnUVZ_tGdnZ2d@comcast.com>
NNTP-Posting-Host: 69.19.14.23
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160181056 28870 127.0.0.1 (7 Oct 2006 00:30:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 7 Oct 2006 00:30:56 +0000 (UTC)
In-Reply-To: <AKydnaOKRqIWbbvYnZ2dnUVZ_tGdnZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=69.19.14.23;
   posting-account=u4IZrA0AAAAnZJmD4DLlWGiEpMGb--6i
Xref: g2news2.google.com rec.radio.amateur.equipment:6584
rec.radio.amateur.homebrew:7299 rec.radio.amateur.policy:48968

Dee Flint wrote:
>

>
> And just who do you think developed these modes? How new do you think these
> modes are? It seems like everyone I contact on the "new" mode of PSK31 is

> retired and has been for many years.
sample check Dee: how many people that you contact on ANY mode are not
retired and have been for years

went to our Radio meeting tues night and a talk was given on the "New"
mode PSK-31

if your sample is skewed towrd retirees as badly as mine........

From -1443470807762441458
X-Google-Thread: 108122,6f6a9f9d8a6f2fef
X-Google-Thread: fc2a5,6f6a9f9d8a6f2fef
X-Google-Thread: 10bf43,6f6a9f9d8a6f2fef
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio
.amateur.policy
Subject: Re: Code, for SC
From: Slow Code <my.mail@no.spam>
References: <K_AVg.14606$5o5.4494@tornado.texas.rr.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 28
Message-ID: <9ACVg.5934$Y24.5304@newsread4.news.pas.earthlink.net>
Date: Sat, 07 Oct 2006 00:32:05 GMT
NNTP-Posting-Host: 4.227.160.132
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1160181125 4.227.160.132 (Fri, 06 Oct
2006 17:32:05 PDT)
NNTP-Posting-Date: Fri, 06 Oct 2006 17:32:05 PDT
Xref: g2news2.google.com rec.radio.amateur.equipment:6585
rec.radio.amateur.homebrew:7301 rec.radio.amateur.policy:48972

"U-Know-Who" <no-one@nowhere.com> wrote in
news:K_AVg.14606$5o5.4494@tornado.texas.rr.com:

> I have an idea. This should thin the ranks of amateurs and let Big
> Brother have the bands as is desired. We all know the FCC wants to sell
> the bands to the highest bidder. In addition to the code requirement,
> lets have proficiency testing in SSB, FM, RTTY, PSK-31 and Packet. That
> should just about kill the code proponents off, as they are mostly too
> old, addled, and unable to learn. That way, even they won't be able to
> use *their* bands without these proficiencies.
>
> Sounds like a plan, eh?
>
> HTH

I could go for that.

The more testing, the better. Then outsiders would look at the amateur
radio service and see valuable and capable operators, they would see our
spectrum wasn't being wasted by people that only know how to talk into a
microphone to communicate.

Thanks. :-) Great idea.

SC

From -3418901572110497134
X-Google-Thread: fc8b1,c470baa1c59ab174,start
X-Google-Thread: fc2a5,c470baa1c59ab174,start
X-Google-Thread: 10bf43,c470baa1c59ab174,start
X-Google-Thread: 1109af,c470baa1c59ab174,start
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Check the SWR on your HF antenna's.
From: Slow Code <my.mail@no.spam>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 6
Message-ID: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
Date: Sat, 07 Oct 2006 00:32:04 GMT
NNTP-Posting-Host: 4.227.160.132
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1160181124 4.227.160.132 (Fri, 06 Oct
2006 17:32:04 PDT)
NNTP-Posting-Date: Fri, 06 Oct 2006 17:32:04 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5822
rec.radio.amateur.homebrew:7300 rec.radio.amateur.policy:48971 rec.radio.swap:8310

Then make a couple CW contacts this weekend.

You'll get up from your rig afterwards and feel pretty good about being a
ham again.

SC

From 3981258392226680361

```
X-Google-Thread: 108122,6f6a9f9d8a6f2fef
X-Google-Thread: fc2a5,6f6a9f9d8a6f2fef
X-Google-Thread: 10bf43,6f6a9f9d8a6f2fef
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!multikabel.net!
feed20.multikabel.net!news2.euro.net!66.150.105.54.MISMATCH!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio
.amateur.policy
Subject: when you going to stop welching on your bets SC?
Date: Fri, 06 Oct 2006 20:35:03 -0400
Message-ID: <dhtdi2hj2b2mq0145f230031r7qhc4tugb@4ax.com>
References: <K_AVg.14606$5o5.4494@tornado.texas.rr.com>
<9ACVg.5934$Y24.5304@newsread4.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 4
NNTP-Posting-Date: 06 Oct 2006 23:39:35 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.equipment:6586
rec.radio.amateur.homebrew:7302 rec.radio.amateur.policy:48992

On Sat, 07 Oct 2006 00:32:05 GMT, Slow Code <my.mail@no.spam> wrote:

when you going to stop welching on your bets SC?
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From -8582136058034860475
X-Google-Thread: fc8b1,c470baa1c59ab174
X-Google-Thread: fc2a5,c470baa1c59ab174
X-Google-Thread: 10bf43,c470baa1c59ab174
X-Google-Thread: 1109af,c470baa1c59ab174
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!news-
spur1.maxwell.syr.edu!news.maxwell.syr.edu!nntpserver.com!zeus.nntpserver.com!
hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: when you going to stop welching on your bets SC?
Date: Fri, 06 Oct 2006 20:39:53 -0400
```

Message-ID: <eqtdi2h357r7gti1k92jdn5hi2rqmga6sr@4ax.com>
References: <8ACVg.5933$Y24.3733@newsread4.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 3
NNTP-Posting-Date: 06 Oct 2006 23:44:27 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5828 rec.radio.amateur.homebrew:7303 rec.radio.amateur.policy:49002 rec.radio.swap:8321

On Sat, 07 Oct 2006 00:32:04 GMT, Slow Code <my.mail@no.spam> wrote:
when you going to stop welching on your bets SC?
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From 7452769363539626031
X-Google-Thread: 108122,6f6a9f9d8a6f2fef
X-Google-Thread: fc2a5,6f6a9f9d8a6f2fef
X-Google-Thread: 10bf43,6f6a9f9d8a6f2fef
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone.austin.rr.com!news.rr.com!tornado.texas.rr.com.POSTED!53ab2750!not-for-mail
From: "U-Know-Who" <no-one@nowhere.com>
Newsgroups: rec.radio.amateur,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy
References: <K_AVg.14606$5o5.4494@tornado.texas.rr.com> <9ACVg.5934$Y24.5304@newsread4.news.pas.earthlink.net> <dhtdi2hj2b2mq0145f230031r7qhc4tugb@4ax.com>
Subject: Re: when you going to stop welching on your bets SC?
Lines: 11
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <lKCVg.14645$5o5.9563@tornado.texas.rr.com>
Date: Sat, 07 Oct 2006 00:42:57 GMT
NNTP-Posting-Host: 67.10.92.242
X-Complaints-To: abuse@rr.com
X-Trace: tornado.texas.rr.com 1160181777 67.10.92.242 (Fri, 06 Oct 2006 19:42:57 CDT)
NNTP-Posting-Date: Fri, 06 Oct 2006 19:42:57 CDT
Organization: Road Runner High Speed Online http://www.rr.com

Xref: g2news2.google.com rec.radio.amateur.equipment:6587
rec.radio.amateur.homebrew:7304 rec.radio.amateur.policy:49005

<Mark@kb9rqz.net> wrote in message
news:dhtdi2hj2b2mq0145f230031r7qhc4tugb@4ax.com...
> On Sat, 07 Oct 2006 00:32:05 GMT, Slow Code <my.mail@no.spam> wrote:
>
> when you going to stop welching on your bets SC?
> http://kb9rqz.blogspot.com/

Stop hijacking threads, you idiot.

From -7186435133314080620
X-Google-Thread: 108122,6f6a9f9d8a6f2fef
X-Google-Thread: fc2a5,6f6a9f9d8a6f2fef
X-Google-Thread: 10bf43,6f6a9f9d8a6f2fef
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-mail
From: "an old friend" <kb9rqz@hotmail.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy
Subject: Re: when you going to stop welching on your bets SC?
Date: 6 Oct 2006 17:45:04 -0700
Organization: http://groups.google.com
Lines: 11
Message-ID: <1160181904.205698.186540@m7g2000cwm.googlegroups.com>
References: <K_AVg.14606$5o5.4494@tornado.texas.rr.com>
   <9ACVg.5934$Y24.5304@newsread4.news.pas.earthlink.net>
   <dhtdi2hj2b2mq0145f230031r7qhc4tugb@4ax.com>
   <lKCVg.14645$5o5.9563@tornado.texas.rr.com>
NNTP-Posting-Host: 69.19.14.23
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1160181909 9895 127.0.0.1 (7 Oct 2006 00:45:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 7 Oct 2006 00:45:09 +0000 (UTC)
In-Reply-To: <lKCVg.14645$5o5.9563@tornado.texas.rr.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=69.19.14.23;
   posting-account=u4IZrA0AAAAnZJmD4DLlWGiEpMGb--6i
Xref: g2news2.google.com rec.radio.amateur.equipment:6588
rec.radio.amateur.homebrew:7305 rec.radio.amateur.policy:49008

U-Know-Who wrote:

```
> <Mark@kb9rqz.net> wrote in message
> news:dhtdi2hj2b2mq0145f230031r7qhc4tugb@4ax.com...
> > On Sat, 07 Oct 2006 00:32:05 GMT, Slow Code <my.mail@no.spam> wrote:
> >
> > when you going to stop welching on your bets SC?
> > http://kb9rqz.blogspot.com/
>
> Stop hijacking threads, you idiot.
not hijacking them myself Sc hijacked them




From 8949509147848460772
X-Google-Thread: fc2a5,8bbdfbf0c1d92bc4,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!news.nask.pl!
news.nask.org.pl!news.cyf-kr.edu.pl!agh.edu.pl!news.agh.edu.pl!news.onet.pl!not-
for-mail
From: MAc <mac_dx@tosiewytnie.poczta.onet.pl>
Newsgroups: rec.radio.amateur.homebrew
Subject: RF field meter
Date: Sat, 30 Sep 2006 23:34:58 +0200
Organization: x
Lines: 6
Message-ID: <efmnu3$g3f$1@news.onet.pl>
Reply-To: mac_dx@tosiewytnie.poczta.onet.pl
NNTP-Posting-Host: pc119.pszczynska.silesianet.pl
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-2; format=flowed
Content-Transfer-Encoding: 7bit
X-Trace: news.onet.pl 1159652099 16495 84.234.115.119 (30 Sep 2006 21:34:59 GMT)
X-Complaints-To: usenet@news.onet.pl
NNTP-Posting-Date: Sat, 30 Sep 2006 21:34:59 +0000 (UTC)
X-Sender: tziRau1SlJeRbF6OI/pJQplh44CxR6pL
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7206

Hi
I am looking for PCB og field strenght meter with AD8313.
Can anybody help?

MAc
sp9mrn



From -2234981264030381066
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.tele.dk!
feed118.news.tele.dk!news.tele.dk!small.news.tele.dk!newsfeed1.swip.net!swipnet!
```

```
newsfeed1.funet.fi!newsfeeds.funet.fi!feeder1.news.jippii.net!
reader1.news.jippii.net!53ab2750!not-for-mail
From: Ceriel Nosforit <ceriel@googlemail.com>
Organization: Guerilla Computing
Subject: Re: VLF from the amp
User-Agent: Pan/0.14.2 (This is not a psychotic episode. It's a cleansing moment
of clarity.)
Message-ID: <pan.2006.09.30.22.23.48.406250@googlemail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
<vm1sh215kmv4dlrihqb7p8p7pvtbgsc9q6@4ax.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 64
Date: Sun, 01 Oct 2006 01:23:51 +0300
NNTP-Posting-Host: 80.186.143.149
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.jippii.net 1159655032 80.186.143.149 (Sun, 01 Oct 2006
01:23:52 EEST)
NNTP-Posting-Date: Sun, 01 Oct 2006 01:23:52 EEST
Xref: g2news2.google.com rec.radio.amateur.homebrew:7207

On Sat, 30 Sep 2006 09:56:11 +0300, Paul Keinanen wrote:

> On Fri, 29 Sep 2006 16:05:21 +0300, Ceriel Nosforit
> <ceriel@googlemail.com> wrote:
>
>>Hey all,
>>
>>I read about people using their sound card to catch transmissions from
>>dedicated senders such as SAQ by just hooking a roll of wire to the
>>mic-in and apparently finding some success in this. This got my
>>wondering, what aside from laws and fines is stopping me from hooking my
>>80W stereo amp up to some sort of antenna for global transmission fun?
>>Somebody must have thought of this before...
>
> At least previously, the frequency tables started at 9 kHz, so anything
> below that would not cause any interference to any other service.
>
> However, the problem with VLF is that any practical antenna is going to
> be very short compared to wavelength and since the radiation resistance
> is proportional to the square of frequency for antennas well below 1/4
> wavelength, most of the power injected into an antenna is going to be
> dissipated in resistive losses.
>
> At the LF aeronautical beacon band with 90 m antennas, the antenna
> efficiency based on measurements flown around these beacons seems to be
> about 1 %. In Europe, the maximum _radiated_ power limit on the 135 kHz
> amateur radio band is 1 W, but generating that kind of radiated power
> with reasonable sized antennas (30 m) would require at least 1 kW of
> transmitter power, indicating that the practical antenna efficiency is
> about 0.1 %. At 13 kHz, the efficiency would be about 0.001 %.
```

>
> The near field distance for a simple antenna extends to about 1/6
> wavelength, so at VLF, the practical communication range for amateur
> communication systems would be well within the near field.
>
> Since you are apparently from Finland and since the Finnish
> telecommunication law only grants the jurisdiction to the
> telecommunication authorities for "freely propagating" electromagnetic
> radiation, my interpretation of the law is that it does not cover any
> near field i.e. magnetic or electrostatic communication systems, in
> which the near field communication systems work.
>
> Of course, if you are able to generate huge magnetic or electric fields
> that cause interference to other systems, this may cause problems to
> you.
>
> But otherwise, go ahead with your experiments, but unfortunately the
> laws of physics will hit you sooner or later :-).
>
> Paul OH3LWR

Woha. A lot of info to assimilate. Thank you.

A few quick questions; the efficiency at higher frequencies does only
increse logarithmically, correct? Around where is the 'knee' where
increment of frequency no longer provideas a significant increase in
efficiency? - Ballpark numbers and guesstimates are perfectly OK for me,
since I'm only curious of the general idea.
Finally, what exactly do you mean by 'near field'? Is it an arbitrary line
in the sand that separates near fields from normal fields, or a completely
different physical phenomena?

--
Nos

From 1704551262271182413
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!sn-xt-sjc-03!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VLF from the amp
Date: Sat, 30 Sep 2006 16:08:06 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12htu6l6dfl9c00@corp.supernews.com>
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
<vm1sh215kmv4dlrihqb7p8p7pvtbgsc9q6@4ax.com>
<pan.2006.09.30.22.23.48.406250@googlemail.com>
X-Priority: 3
X-MSMail-Priority: Normal

X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 46
Xref: g2news2.google.com rec.radio.amateur.homebrew:7208

"Ceriel Nosforit" <ceriel@googlemail.com> wrote in message news:pan.2006.09.30.22.23.48.406250@googlemail.com...

> A few quick questions; the efficiency at higher frequencies does only increse logarithmically, correct?

Sort of, but not really. It's linear for electrically short antennas, but it's actually oscillatory in nature (albeit this occurs after you've hit a half wavelength -- not something you're likely to do at VLF).

> Finally, what exactly do you mean by 'near field'? Is it an arbitrary line in the sand that separates near fields from normal fields, or a completely different physical phenomena?

Any element that you're pumping energy into creates an electric and magnetic field. In a non-radiating component, that energy just "flows" around the element, e.g., the magnetic field diagrams you're probably familiar with for something like a solenoidal inductor. "Near" and "far" field aren't necessarily precisely defined terms, but the idea is that that energy that's just flowing around the element is in the "near field" whereas the energy that's actually radiating out towards Alpha Centauri is in the "far field." As a ballbark estimate, the near field of an element is within about a wavelength away (in distance) from it... hence the mention that, at 10kHz with a 30km wavelength, anywhere in your home is within the near field.

Mathematically, if you look at the equations for a dipole, the electric and magnetic field look something like E(r) or H(r) = foo/r+bar/r^2+bar/r^3+... (where r is the radial distance from the dipole), and hence the power in the field (the Poynting vector) is something like P(r) = baz/r^2+quux/r^3+... From this equation, you can see that over large distance the only term that matters is bar/r^2 -- this is the far field radiation. (Another way to define near field vs. far field, in fact, is to solve P(r) for r when the baz/r^2 terms equals quux/r^3+... -- reasonable enough, as at that point, the far field energy flux is equal to the near field energy flux.)

The above is a fair amount of hand-waving and probably some of it is just plain wrong :-) -- you really should pick up a book on the topic or start Googling. Krauss' books are excellent, by the way, in that the exercises are often "real world"-based, meant to demonstrate either how something really does work or, if it isn't practical, why not.

The Germans call near-field and far-field the Fresnel-region and the Fraunhofer-region, which is really a lot more colorful IMHO.

---Joel

```
From 7834247463670181571
X-Google-Thread: fc2a5,122ad4d33e7c8b88
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!tethys.csu.net!
nntp.csufresno.edu!sn-xt-sjc-03!sn-xt-sjc-01!sn-post-sjc-02!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Help calibrating a noise source
Date: Sat, 30 Sep 2006 16:31:43 -0700
Organization: EZNEC Antenna Software
Message-ID: <12htvj3ajlh5k7f@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <1159583160.221099.124060@c28g2000cwb.googlegroups.com>
<1159650449.174260.130390@c28g2000cwb.googlegroups.com>
In-Reply-To: <1159650449.174260.130390@c28g2000cwb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 18
Xref: g2news2.google.com rec.radio.amateur.homebrew:7209
```

LenAnderson@ieee.org wrote:

```
> . . .
>    Random noise voltage or current can ONLY be calibrated by
>    a TRUE Root Mean Square measuring instrument.  By "true" I
>    mean a thermionic type such as an RF power meter (thermistor,
>    bolometer, etc. sensor).  Few voltmeters on the market have
>    TRUE RMS measuring capability; those that do are specified
>    as such and rather on the expensive side.
 > . . .
```

Not too long ago, I got an HP3400A (10 MHz bandwidth) on eBay for the purpose of measuring noise. Don't recall what I paid, but it was very reasonable. Since truly random noise also has low-frequency fluctuations, an RMS meter reading wanders quite a bit while measuring noise. I find it easier to eyeball interpolate an average reading with the analog meter of the HP3400A than with a digital meter.

Roy Lewallen, W7EL

```
From 6302177477697745831
X-Google-Thread: fc2a5,122ad4d33e7c8b88
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.eclipse.net.uk!news.eclipse.net.uk.POSTED!not-for-mail
```

NNTP-Posting-Date: Sat, 30 Sep 2006 19:10:01 -0500
Message-ID: <T+tkADVbawHFFAmc@ifwtech.co.uk>
Date: Sun, 1 Oct 2006 01:06:51 +0100
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Help calibrating a noise source
References: <1159583160.221099.124060@c28g2000cwb.googlegroups.com>
Organization: IFWtech
MIME-Version: 1.0
Content-Type: text/plain;charset=us-ascii;format=flowed
User-Agent: Turnpike/6.05-M (<524kzThVO5sWTFKkHhwHHc+5zR>)
Lines: 47
NNTP-Posting-Host: 82.153.126.156
X-Trace: sv3-Wq7yjGQp9LDVKptiGlpKhNuzEmyPxWWhX4ppssZ+KH4A6qtnPZKR8d7dJlw5wY8maAM1xb0Yybt8bo5!hvG5iky4OH1C59P098WwCA4nXGRnn3UKn3jHwkA166DmiSjSdHDkYigH+RAdvvVrnsEpdMcR39s=
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7210

Gary, WB9JPS wrote:

>I built a noise source as described by Bill Sabin, W0IYH in QST (1995) and EMRFD. Works fine, but now it's time for calibration. Chatting with Bill, he reinforces the notion that the best way to go is comparison with another calibrated source, or a direct measurement with a calibrated noise figure test set. NoiseCom used to provide this service to hams for <$50, but now they claim they have dropped that offer (it's about $600, now). So my question is, is there anyone in the SF Bay Area (I live in Livermore) who might be able to help? If someone owns a source or test set, perhaps we could get together. I'm open to other suggestions, too.
>
>FYI, this is primarily for testing HF rcvr performance. I'm building an R2-style DC rcvr, and it's turned into a nice research and education project, so I go a bit overboard sometimes, but it sure is fun. I'm also using an IQPro DDS VFO. I wrote a couple reports on its performance that are up on the AA0ZZ website.
>

Sorry I can't help with a calibrated noise source from this side of the Atlantic. The amateur microwave community hold regular meetings that always include a measurement session using calibrated professional test equipment. Given a calibrated professional noise source and a NF test set, it is very easy to transfer the ENR calibration to your HB source (especially if the room temperature happens to be 290K :-)

However, you don't really need a professional test set. You can make very accurate measurements of relative RMS noise power levels using a PC

sound card, and this opens the way to NF measurements. The only hardware accessories needed are a simple linear downconverter of the type described in EMRFD, and a noise source that can be gated by an output from the PC. For details and software, see:
http://uk.geocities.com/g8kbb@btinternet.com/newfile4.htm

The only other issue is that almost all professional noise sources are designed and calibrated mainly for UHF/microwave use. For your HF application, you'll typically be limited to just one transfer calibration point at 10MHz. You can rely on a professional source to have no nasty resonances between calibration points, but the ENR will probably roll off rapidly below 10MHz owing to the relatively low value of the DC blocking capacitor.

--
73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From 6029976832823637143
X-Google-Thread: fc2a5,52f66ab9d1e173c0,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wn14feed!worldnet.att.net!bgtnsc05-
news.ops.worldnet.att.net.POSTED!0058dafd!not-for-mail
From: Bill Powell <whp@att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Cheap, Small TNC?
Organization: When we stuff pillows with pig feathers!
Reply-To: whp@att.net
Message-ID: <ef7uh2981hroj8e87s6je8uat15in9o3l8@4ax.com>
X-Newsreader: Forte Agent 1.91/32.564
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 23
NNTP-Posting-Host: 72063c258f6d52ce21505060b966ad3c
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1159667690
72063c258f6d52ce21505060b966ad3c (Sun, 01 Oct 2006 01:54:50 GMT)
NNTP-Posting-Date: Sun, 01 Oct 2006 01:54:50 GMT
Date: Sun, 01 Oct 2006 01:54:50 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7211

I was working on designing a surface mount PC board to build up a bunch of Bob Ball's nifty $25 PIC-based TNCs together so every RACES radio would have one built-in. . . and then read the source code and discovered it doesn't do AX.25 connected mode!

Any suggestions for a TNC that:

- Is cheap enough I can afford to give away 20 of them,
- Is small enough to install inside a mobile radio,
- Is AX.25 connected mode capable,
- Is NOT KISS or APRS (UI) specific,
- Is NOT dependant on ANY PC interaction or support,
- Will digipeat.

So far I can't find anything that meets all those requirements. We
are currently using a limited number of Alinco internal TNCs but they
are expensive, don't digi and only work with Alinco radios.

And - NO - I'm NOT looking for a different way to do what I need to
do: it's Plain Old AX.25 connected mode; NOTHING ELSE!

Thanks in advance,
Bill - WB1GOT

```
From 2581410250327688829
X-Google-Thread: fc2a5,52f66ab9d1e173c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 01 Oct 2006 00:33:33 -0500
From: "g. beat" <@<spam protected>>
Newsgroups: rec.radio.amateur.homebrew
References: <ef7uh2981hroj8e87s6je8uat15in9o3l8@4ax.com>
Subject: Re: Cheap, Small TNC?
Date: Sun, 1 Oct 2006 00:33:24 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <D_adnRgspqewzoLYnZ2dnUVZ_vadnZ2d@comcast.com>
Lines: 29
NNTP-Posting-Host: 67.176.141.93
X-Trace: sv3-
xCkPy8Qo9p6VtumY9VhfFSa8buTRAKizIhyQS4zzOVHj8qzDcFl5v1zjiUpP4VXbKC5FE/FJTCqNpdI!
mcwAonvcXtIYX7qf7d+jkLfbc0V2M9ici/+MZgcnVTN+3JuB/93AG4Egm43hlgy4Q8MmlY0CvbTq!
TJz9qL6kBd/UjVnqGaw=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7212
```

"Bill Powell" <whp@att.net> wrote in message

news:ef7uh2981hroj8e87s6je8uat15in9o3l8@4ax.com...
>I was working on designing a surface mount PC board to build up a
> bunch of Bob Ball's nifty $25 PIC-based TNCs together so every RACES
> radio would have one built-in. . . and then read the source code and
> discovered it doesn't do AX.25 connected mode!
>
> Any suggestions for a TNC that:
> - Is cheap enough I can afford to give away 20 of them,
> - Is small enough to install inside a mobile radio,
> - Is AX.25 connected mode capable,
> - Is NOT KISS or APRS (UI) specific,
> - Is NOT dependant on ANY PC interaction or support,
> - Will digipeat.

Bill -

The NO KISS specification I think eliminates the John Hansen products ?

He now lists these under the name Coastal ChipWorks - TNC X solution
http://www.tnc-x.com/

You can also ask John of his thoughts (his designs are also PIC based)
His TNC-X boards are expandable via an expansion header that allows the
addition of "daughter boards".

w9gb

From 2464109237150228834
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!
feeder2.news.jippii.net!reader1.news.jippii.net!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VLF from the amp
Message-ID: <jdkuh258k01df3jaltp4020ep46v748k82@4ax.com>
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
<vm1sh215kmv4dlrihqb7p8p7pvtbgsc9q6@4ax.com>
<pan.2006.09.30.22.23.48.406250@googlemail.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 37
Date: Sun, 01 Oct 2006 10:40:51 +0300
NNTP-Posting-Host: 195.197.6.120
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.jippii.net 1159688256 195.197.6.120 (Sun, 01 Oct 2006
10:37:36 EEST)

NNTP-Posting-Date: Sun, 01 Oct 2006 10:37:36 EEST
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:7213

On Sun, 01 Oct 2006 01:23:51 +0300, Ceriel Nosforit <ceriel@googlemail.com> wrote:

>A few quick questions; the efficiency at higher frequencies does only
>increse logarithmically, correct? Around where is the 'knee' where
>increment of frequency no longer provideas a significant increase in
>efficiency? -

You can model the antenna system as a series connection of a loss resistance and the radiation resistance. The loss resistance will convert the RF power created with your expensive gear into heat :-), while the power "dissipated" by the radiation resistance will actually disappear as EM fields.

For full sized antennas, the loss resistance is small compared to the radiation resistance and most of the RF power generated will actually radiate. However, even with 1/4 wave vertical antennas, the ground losses can be significant, if not ground planes are used, but the antenna is grounded with grounding electrodes.

When the antenna size is below perhaps 1/10 wavelength, the radiation resistance drops by the square of frequency, so the radiation resistance can quite easily be well below 1 ohm at LF and below. The loss resistance (include grounding and loading coil losses) can be several ohms, thus the majority of the generator power is dissipated in the losses and only a very small part is actually radiated by the very small radiation resistance.

While the metallic conductor skin effect losses are proportional to the square_root_ of frequency, the ground losses are harder to predict, so the total efficiency at VLF frequencies is almost proportional to the square of frequency (not logarithmic). The 'knee' would be at 1/4 wavelength for a vertical antenna. At even higher frequencies, the radiation resistance would vary cyclically.

Paul OH3LWR

From 5823002911346746110
X-Google-Thread: fc2a5,e51c450bdeff5cda
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.bright.net!news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 01 Oct 2006 07:57:29 -0500
Message-ID: <451FBB39.5070707@bloomer.net>
Date: Sun, 01 Oct 2006 12:57:29 +0000

From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To: Kerry Miller <kmiller01at@ticnet.com>
Subject: Re: MFJ-1278 software
References: <d2nSg.5541$Go3.1040@dukeread05> <451BD335.6060309@invalid.invalid> <fKyTg.6211$Go3.4500@dukeread05>
In-Reply-To: <fKyTg.6211$Go3.4500@dukeread05>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 53
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-0RqIIY6Wl7GQ3m3cGlUzQq+JB5/9oO/HttiJsjgrykVX0RIccEBYcAkzdi+Snk/jdKsPOgLtCo+bjPY!u+BkppDTb77vO3zyDuUMB2JfHTxRrTTPqiEkHxRgGl6HyO3qc7FeEaL8KCux91NYUA==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7214

A bit expensive, but is this what you are looking for?

http://www.mfjenterprises.com/products.php?prodid=MFJ-1289W

It says it is for Windows and works with the 1278 (as well as some others)

Scott
N0EDV

Kerry Miller wrote:

> Doug Smith W9WI wrote:
>
>> Kerry Miller wrote:
>>
>>> I've been off the air for several years and am getting back on
>>> finally. I have an MFJ-1278B TNC and have used it with a normal
>>> terminal program on Windows (hyperterm) and Linux (minicom) but don't
>>> have any software anymore that will run on XP or Linux. Is there any
>>> software out there that supports the other modes this TNC will do
>>> like wefax and sstv? I have used it for rtty, cw and packet but
>>> don't have anything that will work with the graphical modes.
>>>
>>> Any suggestions? Will any of the sound card software work with a TNC
>>> instead of a soundcard?
>>
>>

>> I bought one of these some years back. I made the same search you did
>> and came up empty-handed. I've been happy with Baudot and VHF packet
>> so never really got too serious about the other modes.
>>
>> I did hook up the accessory audio I/O on my rig to the soundcard in
>> the computer, with the intent of making unattended recordings (for AM
>> BCB DXing - works great!) and using the computer as a voice keyer.
>> Turns out the same connections are appropriate for PSK31 and other
>> soundcard modes. Very simple (one transistor, one resistor) serial
>> port interfaces are possible to let the computer PTT the radio, or you
>> can even buy one preassembled, and if you don't have a soundcard
>> they're pretty cheap.
>>
>> I still use the 1278 for Baudot.
>
>
> Thanks, that's what I was afraid of. I, too, use it for rtty, packet,
> amtor, pactor, etc. but I was looking for a way to use the fax and sstv
> modes. It sounds like I might be out of luck, maybe I can find a sound
> card program to do those modes. I guess worst case I could find my old
> software and load up dos on an old machine if I can still find it all.
> MFJ doesn't seem to support it anymore, they don't seem to have any
> windows software for it.
>
> Thanks,
> Kerry, WD5ABC

From -9053583594487734793
X-Google-Thread: fc2a5,d3a9454608cabffe,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!news.glorb.com!news-xxxfer.readnews.com!news-out.readnews.com!postnews3.readnews.com!posts.news.usenetmonster.com!nnrp0.asbnva.usenetmonster.com!not-for-mail
From: "JimL" <jimbethladd@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Tektronix Scope Question
Date: Sat, 30 Sep 2006 18:45:35 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Lines: 8
Message-ID: <451fc696$0$4682$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
NNTP-Posting-Host: 03312a1f.news.usenetmonster.com
X-Trace:
DXC=:0LETIo^ALQ@g_lJfCD97[m>XX`Id5knX`IohDjb_78\:2j:<BXWeCUS@nCFQNo27TV]UnmY7I`F^G
dkLWN=Z0@U1@?5<3aB\>QCY4C6oXLS=]K_82l6II:eV
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7215

I need to buy a time base plug-in for my Tek 7704 mainframe.

The7B53A is described as being a "Delayed/delaying time base in one", while
the 7B71 is a" Delaying time base".

Can someone tell me the difference? Tnx, Jim.

```
From 4991667332501237015
X-Google-Thread: fc2a5,b852e7dd08c841e8,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!indigo.octanews.net!news-
out.octanews.net!mauve.octanews.net!198.186.190.95.MISMATCH!news-out.readnews.com!
postnews3.readnews.com!posts.news.usenetmonster.com!
nnrp0.asbnva.usenetmonster.com!not-for-mail
From: "JimL" <jimbethladd@aol.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Tektronix Scope Question
Date: Sat, 30 Sep 2006 22:26:04 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Lines: 8
Message-ID: <451fc696$1$4682$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
NNTP-Posting-Host: 03312a1f.news.usenetmonster.com
X-Trace:
DXC=:0LETIo^ALaegiI6Ajn1Sim>XX`Id5knh`IohDjb_78l:2j:<BXWeCeS@nCFQNo27dV]UnmY7I`FnG
dkLWN=Z0@e1@?5<3aB\>aCY4C6oXLS=mK_82l6II:ef
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7216
```

I need a time base plug-in for my Tek 7704 main frame scope.

The 7B53A plug-in is described as a "Delayed/delaying time base in one". The
7B71 is descried as a "Delaying time base"

Can someone tell me the difference? Tnx, Jim.

```
From 317986956118393127
X-Google-Thread: fc2a5,9520844e5f23670f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!newsfeed.gamma.ru!Gamma.RU!
```

newsfeed.icl.net!newsfeed.fjserv.net!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-online.de!news.belwue.de!newsfeed.arcor.de!newsspool3.arcor-online.net!news.arcor.de.POSTED!not-for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1157660239.048126.59500@e3g2000cwe.googlegroups.com>
<1157677471.049917.187520@m73g2000cwd.googlegroups.com>
<12g1vm8jkmdoi23@corp.supernews.com>
<1157746099.402074.108200@e3g2000cwe.googlegroups.com>
<4502c78c$0$5155$9b4e6d93@newsspool1.arcor-online.net>
<1157842543.577546.103170@m73g2000cwd.googlegroups.com>
<450703aa$0$18483$9b4e6d93@newsspool3.arcor-online.net>
<1158093298.251749.110820@e3g2000cwe.googlegroups.com>
Subject: Re: Intermediate Frequency
Date: Sun, 1 Oct 2006 16:18:49 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 47
Message-ID: <451fcfc0$0$5150$9b4e6d93@newsspool1.arcor-online.net>
Organization: Arcor
NNTP-Posting-Date: 01 Oct 2006 16:25:04 CEST
NNTP-Posting-Host: a008c000.newsspool1.arcor-online.net
X-Trace: DXC=KgkX779C@c3^cW`WBF>WQ<ic==]BZ:af>4Fo<]lROoR1gUcjd<3m<;2cSV?iJ\3XZ:H2GHD?hOgL1IBTX8BXEM60B[DC^LQdWU9;EmcMGB5ST;
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7217

Hi Glen -

> >Is multiplying I with Q enougth to demodulate FM as in a quadrature
> >demodulator?
> The IQ signals multiplied do not make an FM quadrature
> detector as the phase does not really shift much over the NBFM
> bandwidth. There may be a clever way to extract FM more direcly from
> the IQ channels without first detecting a sideband, but I don't know
> it.
direct way:
I read about something like:
phase = (I * diff Q + Q * diff I)/(I*I + Q*Q)
but I cannot remember it exactly.

>
> > Thank you for given the link to Peregrine. I read the datasheet. How do
you
> > mix it?
>
> Maybe the wrong part? I'm talking about the PE4140 FET ring mixer.
> You use two, driven with LOs ninety degress out of phase with respect
> to each other.
Yes, the correct part!

But I cannot see a great benefit using your concept. What is better than others?

> > How much dynamic range do I need? I thought about 100dB?
> > If I recall theory I loss 2dB if limiting the signal to remove AM
> > sensitivy.techniques,
>
> You need good dynamic range up to the limiter. This can be done with
> analog circuits as discussed. After the limiter an A/D converter is
> not even needed in theory--a fast-running timer hooked to a digital
> port could do the trick. I don't remember any loss by removing AM in
> the limiter (since all the the information is contained in the
> frequency of the signal), but my theory is in the distant past, back
> when FM meant 'funny math'.

Everywhere I read about the necessity to remove AM. If the band is used for FM only, why then remove the not found AM in it?
I ran a simulation with Spice doing FM demodulator concepts comparision. The difference between limited and not limited FM product detector was not of significance. Doing the correct low-pass filtering after the detector was of much higher importance.

- Henry

```
From -7176990442905830927
X-Google-Thread: fc2a5,9520844e5f23670f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!
newsfeed01.chello.at!newsfeed.arcor.de!newsspool4.arcor-online.net!
news.arcor.de.POSTED!not-for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1157660239.048126.59500@e3g2000cwe.googlegroups.com>
<1157677471.049917.187520@m73g2000cwd.googlegroups.com>
<12g1vm8jkmdoi23@corp.supernews.com>
<1157746099.402074.108200@e3g2000cwe.googlegroups.com>
<4502c78c$0$5155$9b4e6d93@newsspool1.arcor-online.net>
<1157842543.577546.103170@m73g2000cwd.googlegroups.com>
<450703aa$0$18483$9b4e6d93@newsspool3.arcor-online.net>
<1158093298.251749.110820@e3g2000cwe.googlegroups.com>
<d3deg2p0grmis0bq8cectig0s82dqork6u@4ax.com>
Subject: Re: Intermediate Frequency
Date: Sun, 1 Oct 2006 16:22:41 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 21
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Message-ID: <451fcfc1$0$5150$9b4e6d93@newsspool1.arcor-online.net>
Organization: Arcor
NNTP-Posting-Date: 01 Oct 2006 16:25:05 CEST
NNTP-Posting-Host: a008c000.newsspool1.arcor-online.net
X-Trace: DXC=KgkX779C@cC2:OR3:3gaE@ic==]BZ:afN4Fo<]lROoRAgUcjd<3m<;BcSV?
iJ\3XZJH2GHD?hOgLAIBTX8BXEM6@B[DC^LQdWUI;EmcMGB5STK
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7218

> FM the problem is not responding to amplitude changes but frequency
> changes. So any system that can count and measure frequency and
> render a pattern based on changing frequency.
>
> Synthetic PLL or simple a software PLL. would do it.
> The synthethetic PLL approach means a software oscillator locked
> to a varying frequency external signal.   The error word generated is
> the demodulated signal (apply to D/A or use raw).

A digital detector will have problems if the SNR is to low! If the SNR is
high enought, the all-digital system is just simpler to realize and consumes
lower power.

> You need good dynamic range up to the first selectivity that can
> remove offending close in signals.
>
> Then you can limit hard.   If you limit before or without adaquate
> selectivity you will have intermodulation problems.

Superposition prinzip.

From -2066574255478807471
X-Google-Thread: fc2a5,9520844e5f23670f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!news.glorb.com!
news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Intermediate Frequency
Date: 1 Oct 2006 16:19:16 GMT
Organization: The National Capital FreeNet
Lines: 16
Message-ID: <efopq4$c39$1@theodyn.ncf.ca>
References: <1157660239.048126.59500@e3g2000cwe.googlegroups.com>
<1157677471.049917.187520@m73g2000cwd.googlegroups.com>
<12g1vm8jkmdoi23@corp.supernews.com>
<1157746099.402074.108200@e3g2000cwe.googlegroups.com>
<4502c78c$0$5155$9b4e6d93@newsspool1.arcor-online.net>
<1157842543.577546.103170@m73g2000cwd.googlegroups.com>
<450703aa$0$18483$9b4e6d93@newsspool3.arcor-online.net>
<1158093298.251749.110820@e3g2000cwe.googlegroups.com>

<451fcfc0$0$5150$9b4e6d93@newsspool1.arcor-online.net>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1159719556 12393 134.117.136.48 (1 Oct 2006 16:19:16 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 1 Oct 2006 16:19:16 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7219

"Henry Kiefer" (otc_friend@gmx.net) writes:

> Everywhere I read about the necessity to remove AM. If the band is used for
> FM only, why then remove the not found AM in it?

The limiting has nothing to do with receiving FM, it has everything to do
with getting rid of QRN.

Armstrong pursued FM because he wanted some system that was more noise
free than AM. Since FM does not have an amplitude componenet, that means
you can limit to clear out the QRN and some of the fading. The limiting
is what makes FM so appealling. Take out the limiter and the FM demodulator
will still work fine, but there'll be little point in switching to FM.

  Michael VE2BVW

From -3703302678015417328
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VLF from the amp
Date: Sun, 01 Oct 2006 10:24:03 -0700
Message-ID: <q2uvh2p5v54rge87cncq81vsk2vskkit8n@4ax.com>
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
<e7fqh2hvvmum7rigqhl3g56pdbd0kt8mep@4ax.com>
<pan.2006.09.29.21.12.09.921875@googlemail.com>
X-Newsreader: Forte Agent 4.0/32.1069
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node111-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1159710615 66.52.61.111 (1 Oct 2006 08:50:15 -0500)
Lines: 32
X-Authenticated-User: dezrat@copper.net
X-Original-NNTP-Posting-Host: 66.52.61.111
Path: g2news2.google.com!news3.google.com!news.glorb.com!news-out1.kabelfoon.nl!
newsfeed.kabelfoon.nl!bandi.nntp.kabelfoon.nl!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:7220

ORIGINAL MESSAGE:

On Sat, 30 Sep 2006 00:12:10 +0300, Ceriel Nosforit
<ceriel@googlemail.com> wrote:

>Hehe. Well yeah, I figured as much, but why doesn't it work? Too high
>impendance? Why is that something the amp can't handle, if I maybe resist
>the urge to crank it up to eleven?
>
>I'm approaching the issue from the engineering perspective, but I don't
>have much knowledge in this particular field. If you can enlighten me I'd
>be much obliged. ;)

------------ REPLY FOLLOWS ------------

Here's what is working against you:

1. Frequency is too low for the power level you are using. At higher
frequencies in the shortwave region, 80 watts is plenty to talk around
the world, but not down in the audio range.

2. If you did have lots of power, you would still need an efficient
antenna. Unless you own an entire county, you won't have enough room
to put one up.

The US military does use very low frequencies in the audio range to
communicate with submarines world wide, but they have a pretty good
budget for it. :-)

It can be done, but not by you or me.

Bill, W6WRT

From -4093270403315246095
X-Google-Thread: fc2a5,122ad4d33e7c8b88
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Help calibrating a noise source
Date: 1 Oct 2006 10:54:10 -0700
Organization: http://groups.google.com
Lines: 39
Message-ID: <1159725250.402145.244790@b28g2000cwb.googlegroups.com>
References: <1159583160.221099.124060@c28g2000cwb.googlegroups.com>
<1159650449.174260.130390@c28g2000cwb.googlegroups.com>
<12htvj3ajlh5k7f@corp.supernews.com>
NNTP-Posting-Host: 207.200.116.72
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159725255 5427 127.0.0.1 (1 Oct 2006 17:54:15 GMT)
X-Complaints-To: groups-abuse@google.com

```
NNTP-Posting-Date: Sun, 1 Oct 2006 17:54:15 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-tc11.proxy.aol.com[CFC87137] (Prism/1.1.3), HTTP/1.1 cache-ntc-
ab08.proxy.aol.com[CFC87448] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=207.200.116.72;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:7221
```

Roy Lewallen wrote:

> LenAnderson@ieee.org wrote:
>
> > . . .
> >
> > Random noise voltage or current can ONLY be calibrated by a TRUE Root Mean Square measuring instrument. By "true" I mean a thermionic type such as an RF power meter (thermistor, bolometer, etc. sensor). Few voltmeters on the market have TRUE RMS measuring capability; those that do are specified as such and rather on the expensive side.
> >
> > . . .
>
> Not too long ago, I got an HP3400A (10 MHz bandwidth) on eBay for the purpose of measuring noise. Don't recall what I paid, but it was very reasonable. Since truly random noise also has low-frequency fluctuations, an RMS meter reading wanders quite a bit while measuring noise. I find it easier to eyeball interpolate an average reading with the analog meter of the HP3400A than with a digital meter.

I agree there on analog display versus digital.

Dug out my CD of old "saves" and found the Jim Williams article in the 11 May 2000 edition of EDN (www.ednmag.com). In that he lists the following as having zero error when compared to using the Linear true-RMS IC: HP 3400, 3403C, 3478; Fluke 8920A.

By the bye, the 1967-era HP pseudorandom noise generator has the following "calibration" procedure to check RMS output voltage: Connect it to an HP digital voltmeter-recorder, set it to slow speed and record 1023 voltage readings (corresponding to the slow-speed 'flat' pseudorandom waveform parts), then take the sum of the squares of all those readings and find the square root of it. Heh heh heh...I can just see a calibration technician doing all that work with a mechanical calculator in the 60s...with the QC chief storming in after an hour or so asking "You STILL working on that?!?"   :-)

LenAnderson@ieee.org

From -5459309207290828263
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-03!sn-xt-sjc-06!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VLF from the amp
Date: Sun, 01 Oct 2006 13:12:54 -0700
Organization: EZNEC Antenna Software
Message-ID: <12i08acrkvgg820@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
<vm1sh215kmv4dlrihqb7p8p7pvtbgsc9q6@4ax.com>
<pan.2006.09.30.22.23.48.406250@googlemail.com>
<jdkuh258k01df3jaltp4020ep46v748k82@4ax.com>
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Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 33
Xref: g2news2.google.com rec.radio.amateur.homebrew:7222

Paul Keinanen wrote:

> . . .
> When the antenna size is below perhaps 1/10 wavelength, the radiation
> resistance drops by the square of frequency, so the radiation
> resistance can quite easily be well below 1 ohm at LF and below. The
> loss resistance (include grounding and loading coil losses) can be
> several ohms, thus the majority of the generator power is dissipated
> in the losses and only a very small part is actually radiated by the
> very small radiation resistance.
> . . .

Neglecting ground effects, the radiation resistance of a four-sided loop 100 meters on a side at 100 kHz is 45 milliohms. The radiation resistance of a four-sided loop 10 meters on a side at 10 kHz is about 400 picoohms (4 X 10^-10 ohms). If you used 2 mm diameter wire to construct the loops, the first would have an efficiency of 0.7%, and the second of 0.00000016 percent. These are very optimistic, since they don't account for the considerable loss you'd incur by induction into the ground and objects for quite some distance around. They also don't account for losses in the required impedance matching network. And a receiving antenna would have the same efficiency.

You can easily get these numbers with the free EZNEC demo program from http://eznec.com. Or use a calculator and the simple equations you'll find in any antenna text.

The OP wondered if anybody had ever thought of this before. The answer

is yes, the first time probably well over a hundred years ago. Anyone
doing the simple calculations sees immediately why it's not a great idea.

Roy Lewallen, W7EL

```
From 6436185611152910891
X-Google-Thread: fc2a5,9520844e5f23670f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news2.google.com!news.maxwell.syr.edu!
newsfeed.vmunix.org!newsfeed.ision.net!newsfeed2.easynews.net!ision!
newsfeed.arcor.de!newsspool3.arcor-online.net!news.arcor.de.POSTED!not-for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1157660239.048126.59500@e3g2000cwe.googlegroups.com>
<1157677471.049917.187520@m73g2000cwd.googlegroups.com>
<12g1vm8jkmdoi23@corp.supernews.com>
<1157746099.402074.108200@e3g2000cwe.googlegroups.com>
<4502c78c$0$5155$9b4e6d93@newsspool1.arcor-online.net>
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<450703aa$0$18483$9b4e6d93@newsspool3.arcor-online.net>
<1158093298.251749.110820@e3g2000cwe.googlegroups.com>
<451fcfc0$0$5150$9b4e6d93@newsspool1.arcor-online.net>
<efopq4$c39$1@theodyn.ncf.ca>
Subject: Re: Intermediate Frequency
Date: Sun, 1 Oct 2006 23:02:22 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 32
Message-ID: <45202d70$0$5155$9b4e6d93@newsspool1.arcor-online.net>
Organization: Arcor
NNTP-Posting-Date: 01 Oct 2006 23:04:48 CEST
NNTP-Posting-Host: 4ea07a1c.newsspool1.arcor-online.net
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X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:7223
```

"Michael Black" <et472@FreeNet.Carleton.CA> schrieb im Newsbeitrag
news:efopq4$c39$1@theodyn.ncf.ca...
> "Henry Kiefer" (otc_friend@gmx.net) writes:
>
> > Everywhere I read about the necessity to remove AM. If the band is used
for
> > FM only, why then remove the not found AM in it?

>
> The limiting has nothing to do with receiving FM, it has everything to do
> with getting rid of QRN.
>
> Armstrong pursued FM because he wanted some system that was more noise
> free than AM. Since FM does not have an amplitude componenet, that means
> you can limit to clear out the QRN and some of the fading. The limiting
> is what makes FM so appealling. Take out the limiter and the FM
demodulator
> will still work fine, but there'll be little point in switching to FM.

OK Michael. So it is for fight against QRN and fading, not primary for being
immune to AM.
As my Spice simulations suggest; the FM demodulator works almost completely
comparable in analog (=not limiting) and digital (=limiting) mode.

What about the performance comparision of PLL demod and quadrature demod
concepts? Seems no much difference?

regards -
Henry

From -6803452638095428289
X-Google-Thread: fc2a5,52f66ab9d1e173c0
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!peer01.cox.net!cox.net!
hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe05.lga.POSTED!
53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <ef7uh2981hroj8e87s6je8uat15in9o3l8@4ax.com>
<D_adnRgspqewzoLYnZ2dnUVZ_vadnZ2d@comcast.com>
Subject: Re: Cheap, Small TNC?
Lines: 32
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <EbYTg.45$lm7.19@newsfe05.lga>
X-Trace:
hikehalegljkcnnfijjdnojopddcmjimcoigblngnhailkppnicfceledepkikoolhlefpnpglhfdcnhbj
kgebffbfaiiibjmbifoooaedibpgndlpbefconpinpbefbmdgngjfkdegidppb
NNTP-Posting-Date: Sun, 01 Oct 2006 16:29:40 MST
Date: Sun, 1 Oct 2006 19:29:35 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:7224

```
"g. beat >" <@<spam protected> wrote in message
news:D_adnRgspqewzoLYnZ2dnUVZ_vadnZ2d@comcast.com...
> "Bill Powell" <whp@att.net> wrote in message
> news:ef7uh2981hroj8e87s6je8uat15in9o3l8@4ax.com...
>>I was working on designing a surface mount PC board to build up a
>> bunch of Bob Ball's nifty $25 PIC-based TNCs together so every RACES
>> radio would have one built-in. . . and then read the source code and
>> discovered it doesn't do AX.25 connected mode!
>>
>> Any suggestions for a TNC that:
>> - Is cheap enough I can afford to give away 20 of them,
>> - Is small enough to install inside a mobile radio,
>> - Is AX.25 connected mode capable,
>> - Is NOT KISS or APRS (UI) specific,
>> - Is NOT dependant on ANY PC interaction or support,
>> - Will digipeat.
>
> Bill -
>
> The NO KISS specification I think eliminates the John Hansen products ?

From a practical standpoint, I can't see much difference, unless OP has some
specific software beyond the typical terminal emulator.  The TNC-X works
quite nicely from a laptop and a mobile (haven't tried it with a hand held).
And consume little power.

However, they don't digipeat without the addition of a daughter card, and
that would drive the price up, maybe too high

..




From 1491289422808905034
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-
mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL "Homebrew Challenge"
Date: 1 Oct 2006 16:58:12 -0700
Organization: http://groups.google.com
Lines: 16
Message-ID: <1159747092.551411.49370@h48g2000cwc.googlegroups.com>
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
NNTP-Posting-Host: 63.73.218.152
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159747096 24844 127.0.0.1 (1 Oct 2006 23:58:16 GMT)
X-Complaints-To: groups-abuse@google.com
```

NNTP-Posting-Date: Sun, 1 Oct 2006 23:58:16 +0000 (UTC)
In-Reply-To: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h48g2000cwc.googlegroups.com; posting-host=63.73.218.152;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news2.google.com rec.radio.amateur.homebrew:7225

Tom Coates wrote:
> ARRL has announced a design competition that some of you may not have heard
> of. The objective is to produce a CW and SSB transceiver with at least 5
> watts of output on 40 meters. Components must be commercially available. The
> total cost of all components (except key, mic and power supply) must not
> exceed $50. Any instruments beyond a multimeter must be in the $50.

WOW.

$50 today is like $10 when I was first licensed 30-something years ago.

$50 is just five more dollars than what the 2007 ARRL handbook
(paperback) is going to cost!

Tim.

From 6675648063032370966
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!newsfeed.icl.net!
newsfeed.fjserv.net!news.tele.dk!news.tele.dk!small.news.tele.dk!
newsfeed.bahnhof.se!195.197.54.117.MISMATCH!feeder1.news.jippii.net!
reader1.news.jippii.net!53ab2750!not-for-mail
From: Ceriel Nosforit <ceriel@googlemail.com>
Organization: Guerilla Computing
Subject: Re: VLF from the amp
User-Agent: Pan/0.14.2 (This is not a psychotic episode. It's a cleansing moment
of clarity.)
Message-ID: <pan.2006.10.02.00.09.50.515625@googlemail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
<vm1sh215kmv4dlrihqb7p8p7pvtbgsc9q6@4ax.com>
<pan.2006.09.30.22.23.48.406250@googlemail.com>
<jdkuh258k01df3jaltp4020ep46v748k82@4ax.com> <12i08acrkvgg820@corp.supernews.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 29
Date: Mon, 02 Oct 2006 03:09:50 +0300

NNTP-Posting-Host: 80.186.143.149
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.jippii.net 1159747791 80.186.143.149 (Mon, 02 Oct 2006 03:09:51 EEST)
NNTP-Posting-Date: Mon, 02 Oct 2006 03:09:51 EEST
Xref: g2news2.google.com rec.radio.amateur.homebrew:7226

On Sun, 01 Oct 2006 13:12:54 -0700, Roy Lewallen wrote:

> Paul Keinanen wrote:

<snip>

> The OP wondered if anybody had ever thought of this before. The answer
> is yes, the first time probably well over a hundred years ago. Anyone
> doing the simple calculations sees immediately why it's not a great idea.

Yes, I'm beginnig to see that now. :D However, I am learning a great deal in the process, and the equations I have found to explain the issue in detail don't seem simple at all. But if it was simple it wouldn't be interesting, now would it? ;)

Right now I'm looking at;
http://en.wikipedia.org/wiki/Near-field
http://en.wikipedia.org/wiki/Radiation_pattern
http://en.wikipedia.org/wiki/Fresnel_zone

Lucky for me I'm trying to build up an interest in math. Cos here's plenty of it...

Again, thank you all for your replies. It'll be a while until I really have an intuitive understanding of the subject like you all do, but I am patient. :)

--
Nos

From 9158257776835990546
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL "Homebrew Challenge"
Date: 2 Oct 2006 02:09:53 GMT
Organization: The National Capital FreeNet
Lines: 31
Message-ID: <efpsdh$118$1@theodyn.ncf.ca>
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com> <1159747092.551411.49370@h48g2000cwc.googlegroups.com>

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Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1159754993 1064 134.117.136.48 (2 Oct 2006 02:09:53 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 2 Oct 2006 02:09:53 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7227

"Tim Shoppa" (shoppa@trailing-edge.com) writes:
> Tom Coates wrote:
>> ARRL has announced a design competition that some of you may not have heard
>> of. The objective is to produce a CW and SSB transceiver with at least 5
>> watts of output on 40 meters. Components must be commercially available. The
>> total cost of all components (except key, mic and power supply) must not
>> exceed $50. Any instruments beyond a multimeter must be in the $50.
>
> WOW.
>
> $50 today is like $10 when I was first licensed 30-something years ago.
>
> $50 is just five more dollars than what the 2007 ARRL handbook
> (paperback) is going to cost!
>
> Tim.
>

That is an interesting perspective.

My first handbook, the 1971 edition, had a $4.50 cover price.  It
was preceeded, by about a month, "How To Become A Radio Amateur",
and I can't remember how much that was but obviously not much.

The latter book had a single tube transmitter built on a wooden
"chassis", though I can't remember if they suggested you scrounge
the parts.  I have no recollection of the receiver, but it would
have been a regen.

   Michael  VE2BVW




From -984011615224766521
X-Google-Thread: fc2a5,d3a9454608cabffe
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-
mail
From: "mrhaney" <w4pqw@cox.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tektronix Scope Question
Date: 1 Oct 2006 19:38:32 -0700
Organization: http://groups.google.com
Lines: 11
Message-ID: <1159756712.604672.235400@k70g2000cwa.googlegroups.com>
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References: <451fc696$0$4682$ec3e2dad@news.usenetmonster.com>
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Mime-Version: 1.0
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X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 2 Oct 2006 02:38:37 +0000 (UTC)
In-Reply-To: <451fc696$0$4682$ec3e2dad@news.usenetmonster.com>
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FunWebProducts),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=68.228.25.103;
   posting-account=1DJ5AwwAAAARxlmaHomBOSyfP8FvFcub
Xref: g2news2.google.com rec.radio.amateur.homebrew:7228

Jim,if you will do a google search for patent # 4109182   it describes
the Delay and Delaying sweep setup.. Not a simple subject ,,but,, this
seems to cover it quite well...Good luck   ..Harold
JimL wrote:
> I need to buy a time base plug-in for my Tek 7704 mainframe.
>
> The7B53A is described as being a "Delayed/delaying time base in one", while
> the 7B71 is a" Delaying time base".
>
> Can someone tell me the difference? Tnx, Jim.



From -4740919562950998031
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-
online.de!news.buerger.net!open-news-network.org!tudelft.nl!txtfeed1.tudelft.nl!
feeder3.cambrium.nl!feed.tweaknews.nl!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-
ams-03!sn-post-ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VLF from the amp
Date: Sun, 01 Oct 2006 20:36:23 -0700
Organization: EZNEC Antenna Software
Message-ID: <12i129r9j4uet19@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
<vm1sh215kmv4dlrihqb7p8p7pvtbgsc9q6@4ax.com>
<pan.2006.09.30.22.23.48.406250@googlemail.com>
<jdkuh258k01df3jaltp4020ep46v748k82@4ax.com> <12i08acrkvgg820@corp.supernews.com>
<pan.2006.10.02.00.09.50.515625@googlemail.com>
In-Reply-To: <pan.2006.10.02.00.09.50.515625@googlemail.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
```

Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 46
Xref: g2news2.google.com rec.radio.amateur.homebrew:7229

To get the numbers I came up with, all you need is the equation for the radiation resistance of a small loop and the resistance of copper wire. It shouldn't be hard to find the equation for the small loop, and it's very simple. At those frequencies, the resistance of the wire should be nearly the same as the DC resistance, so all you need is a copper wire table(*). Both should be readily available on the web.

Of course, if you want to know about other kinds of antennas and more detailed effects like the field intensity in the presence of ground, the equations can get difficult indeed, and some are too difficult to solve directly. That's what the modeling programs are for.

(*) At higher frequencies or with much larger diameter wires, you'll need to account for skin effect. This requires calculation of a square root and can be done on a pocket calculator as can the others.

Roy Lewallen, W7EL

Ceriel Nosforit wrote:
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>
>> Paul Keinanen wrote:
>
> <snip>
>
>> The OP wondered if anybody had ever thought of this before. The answer
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>
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> http://en.wikipedia.org/wiki/Near-field
> http://en.wikipedia.org/wiki/Radiation_pattern
> http://en.wikipedia.org/wiki/Fresnel_zone
>
> Lucky for me I'm trying to build up an interest in math. Cos here's plenty
> of it...
>
> Again, thank you all for your replies. It'll be a while until I really
> have an intuitive understanding of the subject like you all do, but I am
> patient. :)
>

```
From -4465753784123160108
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!newsfeed.icl.net!news-
lond.gip.net!news.gsl.net!gip.net!news.tele.dk!news.tele.dk!small.news.tele.dk!
newsfeed.bahnhof.se!195.197.54.117.MISMATCH!feeder1.news.jippii.net!
reader1.news.jippii.net!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VLF from the amp
Message-ID: <gs61i2pkiad3e4v45pl2bbpvrep8hv8hma@4ax.com>
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
<vm1sh215kmv4dlrihqb7p8p7pvtbgsc9q6@4ax.com>
<pan.2006.09.30.22.23.48.406250@googlemail.com>
<jdkuh258k01df3jaltp4020ep46v748k82@4ax.com> <12i08acrkvgg820@corp.supernews.com>
<pan.2006.10.02.00.09.50.515625@googlemail.com>
<12i129r9j4uet19@corp.supernews.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 28
Date: Mon, 02 Oct 2006 08:16:28 +0300
NNTP-Posting-Host: 195.197.6.90
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.jippii.net 1159765991 195.197.6.90 (Mon, 02 Oct 2006
08:13:11 EEST)
NNTP-Posting-Date: Mon, 02 Oct 2006 08:13:11 EEST
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:7230
```

On Sun, 01 Oct 2006 20:36:23 -0700, Roy Lewallen <w7el@eznec.com>
wrote:

>To get the numbers I came up with, all you need is the equation for the
>radiation resistance of a small loop and the resistance of copper wire.
>It shouldn't be hard to find the equation for the small loop, and it's
>very simple. At those frequencies, the resistance of the wire should be
>nearly the same as the DC resistance, so all you need is a copper wire
>table(*). Both should be readily available on the web.

Small magnetic loops with gains in -30 ..-60 dB range can be usable for receiving due to the extreme noise levels on LF and VLF, but for transmitting, they are far to lossy.

To get any significant communication distance, you would need a vertical polarised signal. The popular antenna among 135 kHz experimenters as well as in LF aeronautical beacons is a vertical tower with as much top capacitance as you can put up.

Look at the antenna systems of old ships using the LF band, these have multiple parallel wires erected between the masts in the bow and stern. These wires form the top capacitance and a vertical wire going directly from it isolator on the radio room to the top wires, which is the actual vertical radiator. The top loading will increase the current in the vertical conductor and hence vertical radiation.

Paul

From -6721719795002923866
X-Google-Thread: fc2a5,d3a9454608cabffe
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!sn-xt-sjc-05!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Tektronix Scope Question
Date: Sun, 01 Oct 2006 22:46:11 -0700
Organization: EZNEC Antenna Software
Message-ID: <12i19t7b4nkahf6@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <451fc696$0$4682$ec3e2dad@news.usenetmonster.com>
In-Reply-To: <451fc696$0$4682$ec3e2dad@news.usenetmonster.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 20
Xref: g2news2.google.com rec.radio.amateur.homebrew:7231

The 7B71 is a single time base, which can be used as-is, or to provide a delayed trigger to a second time base plugged into another hole. When one timebase is used to delay another, it allows seeing an expanded-time closeup of a part of a waveform.

The 7B53A is a dual timebase -- two timebases in the same package. One can be used to delay the other, so you can do the whole thing with the one plugin.

Roy Lewallen, W7EL

JimL wrote:
> I need to buy a time base plug-in for my Tek 7704 mainframe.
>
> The7B53A is described as being a "Delayed/delaying time base in one", while
> the 7B71 is a" Delaying time base".
>
> Can someone tell me the difference? Tnx, Jim.
>
>

From -4264336150272956124
X-Google-Thread: fc2a5,c795c2ce13673c93,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!feed.cgocable.net!news.sprintnetops.net!news.cse.sc.edu!ken-transit.news.telstra.net!lon-in.news.telstra.net!news.telstra.net!news-server.bigpond.net.au!53ab2750!not-for-mail
From: David <dhuisman@bigpond.net.au>
Reply-To: dhuisman@bigpond.net.au
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Trouble matching SA605 input at 434 MHz
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 19
Message-ID: <1Z2Ug.39931$rP1.16940@news-server.bigpond.net.au>
Date: Mon, 02 Oct 2006 07:11:57 GMT
NNTP-Posting-Host: 60.228.128.220
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1159773117 60.228.128.220 (Mon, 02 Oct 2006 17:11:57 EST)
NNTP-Posting-Date: Mon, 02 Oct 2006 17:11:57 EST
Organization: BigPond Internet Services
Xref: g2news2.google.com rec.radio.amateur.homebrew:7232

I am having trouble matching to the input of a SA605 at 434 MHz.

If I apply a sig gen directly to pin 1 via a 1n cap I get around - 95Bm sensitivity. I then add my match and the sensitivity drops more than 10dB. I am expecting 10dB increase in sensitivity when input is matched correctly.

First I tried matching to 800R as per input impedance listed in the Philips APP note. I then noticed most applications matched to 1k5.

My current circuit is C-Tap (33pF to ground and series 5p6 to inductor).
18.5nH inductor (Q = 100) across input pins 1 and 2.
10n decoupling cap from pin 2 to ground.

Any help much appreciated.

Regards

David

From -8230430181669958048
X-Google-Thread: fc2a5,830a1420bc05b420,start
X-Google-Thread: 108122,830a1420bc05b420,start

X-Google-Attributes: gidfc2a5,gid108122,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-mail
From: terry.widdowson@btopenworld.com
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: FS ABE Elettronica L60 UHF amplifier and 2 BPFs
Date: 2 Oct 2006 04:59:36 -0700
Organization: http://groups.google.com
Lines: 14
Message-ID: <1159790376.822275.199330@b28g2000cwb.googlegroups.com>
NNTP-Posting-Host: 86.132.68.180
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159790382 15208 127.0.0.1 (2 Oct 2006 11:59:42 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 2 Oct 2006 11:59:42 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; BTT V3.0; YPC 3.2.0; .NET CLR 1.1.4322; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=86.132.68.180;
   posting-account=bomrWQ0AAADYpr6KeBhLj4FhPienCapr
Xref: g2news2.google.com rec.radio.amateur.homebrew:7233 rec.radio.amateur.equipment:6556

A friend of mine has an ABE L60/TH, 60W p.s. UHF band (470 to 860 MHz)
amplifier, with a 3 cavity and a 6 cavity 500W tuneable filters also
supplied by ABE. All in mint condition. The part numbers are:

L60/TH/U/Ch 68 amplifier

L60/TH/U/Ch 68 STD I bandpass
L60/TH/U/Ch 68 STD I notch

The two filters are mounted on a 1U 19 inch rack mount, also mint.
He has asked me to sell them, any offers before they go on ebay?
Cheers,
Terry

From -4821813837803246024
X-Google-Thread: fc2a5,c795c2ce13673c93
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 02 Oct 2006 11:19:56 -0500
Date: Mon, 02 Oct 2006 09:20:10 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113

X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Trouble matching SA605 input at 434 MHz
References: <1Z2Ug.39931$rP1.16940@news-server.bigpond.net.au>
In-Reply-To: <1Z2Ug.39931$rP1.16940@news-server.bigpond.net.au>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <UOOdnSMe1uexobzYnZ2dnUVZ_sGdnZ2d@web-ster.com>
Lines: 37
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-
Hn3hjpvKgpWpvsGcoM29L84XYtnYN7RqUvsQOwb0EpwNQfvfcIRSPheBZHjrX9yd2NHRivJw+Zi253/!
guEhiohV+kt9f5DsiimnLdXqxFjUBU/U/yL8aQX+AJ1NG/p5o0VGlxfAXyM5fIBSG1n+IgiSq1RM!
8i9Gm1ipcuo0lvcf
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7234

David wrote:

> I am having trouble matching to the input of a SA605 at 434 MHz.
>
> If I apply a sig gen directly to pin 1 via a 1n cap I get around - 95Bm
> sensitivity. I then add my match and the sensitivity drops more than
> 10dB. I am expecting 10dB increase in sensitivity when input is matched
> correctly.
>
> First I tried matching to 800R as per input impedance listed in the
> Philips APP note. I then noticed most applications matched to 1k5.
>
> My current circuit is C-Tap (33pF to ground and series 5p6 to inductor).
> 18.5nH inductor (Q = 100) across input pins 1 and 2.
> 10n decoupling cap from pin 2 to ground.
>
> Any help much appreciated.
>
> Regards
>
> David

You don't mention any adjustable components -- you _are_ tuning this thing, right? Your circuit will have a loaded Q of around 5, so you should see a pretty broad peak, but you will have to tune out all your stray capacitance.

--

Tim Wescott

Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

```
From 4360311112522334087
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-
mail
From: "MadEngineer" <glenn.b.dixon@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL "Homebrew Challenge"
Date: 2 Oct 2006 13:26:41 -0700
Organization: http://groups.google.com
Lines: 22
Message-ID: <1159820800.754659.183440@e3g2000cwe.googlegroups.com>
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
   <1159747092.551411.49370@h48g2000cwc.googlegroups.com>
NNTP-Posting-Host: 208.177.146.102
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159820805 5884 127.0.0.1 (2 Oct 2006 20:26:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 2 Oct 2006 20:26:45 +0000 (UTC)
In-Reply-To: <1159747092.551411.49370@h48g2000cwc.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=208.177.146.102;
   posting-account=EvBMNw0AAABX-Et6w0086s4DXqrY-API
Xref: g2news2.google.com rec.radio.amateur.homebrew:7235
```

Tim wrote:
>
> $50 today is like $10 when I was first licensed 30-something years ago.

Yes, but electronics follow a strange economy...some parts such as
batteries and pots haven't changed price much, but most are much
cheaper. You can now buy a`stereo FM receiver for $3.00 at Wal Mart.
In the sixties that would have cost at least $30.00. But today's
integrated radios have darn few parts that can be removed/reused.

>
> $50 is just five more dollars than what the 2007 ARRL handbook
> (paperback) is going to cost!

>

Well, if it's any consolation, you will probably get lots more from the handbook--in terms of weight, at least.

Regards,
Glenn Dixon AC7ZN

From 6064253236106805024
X-Google-Thread: fc2a5,c795c2ce13673c93
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!cycny01.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc07.POSTED!8a3140f3!not-for-mail
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1Z2Ug.39931$rP1.16940@news-server.bigpond.net.au> <UOOdnSMe1uexobzYnZ2dnUVZ_sGdnZ2d@web-ster.com>
Subject: Re: Trouble matching SA605 input at 434 MHz
Lines: 50
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2741.2600
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2742.200
Message-ID: <g3fUg.861$If3.394@trnddc07>
Date: Mon, 02 Oct 2006 20:57:48 GMT
NNTP-Posting-Host: 70.20.199.17
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc07 1159822668 70.20.199.17 (Mon, 02 Oct 2006 16:57:48 EDT)
NNTP-Posting-Date: Mon, 02 Oct 2006 16:57:48 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7236

Also, you don't say what the input caoacitance is. In my modeling, with an assumption of about 4pf for chip and strays, the voltage gain is about 9 (19db), the resonance is a little below 400 mhz and you'd be about 10 db down at 434 mhz. I agree with Tim...tune it.

Joe
W3JDR

"Tim Wescott" <tim@seemywebsite.com> wrote in message
news:UOOdnSMe1uexobzYnZ2dnUVZ_sGdnZ2d@web-ster.com...
> David wrote:
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> >
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> > 10n decoupling cap from pin 2 to ground.
> >
> > Any help much appreciated.
> >
> > Regards
> >
> > David
>
> You don't mention any adjustable components -- you _are_ tuning this
> thing, right? Your circuit will have a loaded Q of around 5, so you
> should see a pretty broad peak, but you will have to tune out all your
> stray capacitance.
>
> --
>
> Tim Wescott
> Wescott Design Services
> http://www.wescottdesign.com
>
> Posting from Google? See http://cfaj.freeshell.org/google/
>
> "Applied Control Theory for Embedded Systems" came out in April.
> See details at http://www.wescottdesign.com/actfes/actfes.html

---

From -8544953269783508996
X-Google-Thread: fc2a5,c795c2ce13673c93
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!lon-transit.news.telstra.net!ken-in.news.telstra.net!news.telstra.net!news-server.bigpond.net.au!53ab2750!not-for-mail
From: David <dhuisman@bigpond.net.au>
Reply-To: dhuisman@bigpond.net.au
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Trouble matching SA605 input at 434 MHz
References: <1Z2Ug.39931$rP1.16940@news-server.bigpond.net.au> <UOOdnSMe1uexobzYnZ2dnUVZ_sGdnZ2d@web-ster.com> <g3fUg.861$If3.394@trnddc07>
In-Reply-To: <g3fUg.861$If3.394@trnddc07>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 75
Message-ID: <60hUg.40305$rP1.26302@news-server.bigpond.net.au>

Date: Mon, 02 Oct 2006 23:10:58 GMT
NNTP-Posting-Host: 58.167.49.11
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1159830658 58.167.49.11 (Tue, 03 Oct 2006 09:10:58 EST)
NNTP-Posting-Date: Tue, 03 Oct 2006 09:10:58 EST
Organization: BigPond Internet Services
Xref: g2news2.google.com rec.radio.amateur.homebrew:7237

Yes, I tune the series capacitance of the tap(3-10p trimmer), the 5.6pF is the calculated value.
The input capacitance of the IC is assumed to be around 2.6pF and I allowed a couple of pF stray circuit capacitance.

As the match is so broad due to low Q, I would assume the tuning is not critical and that any matching closer to the device input impedance would show a significant improvement in sensitivity.

Does anyone know what the impedance of the SA605 is at 434 MHz?

Philips APP note AN1994 shows a table that states 1785 Ohms // 2.5 pF at 250 MHz and dropping to 588 Ohms // 2.75pF at 500 MHz. If I interpolate the values between these points and assume the change is almost linear then I would expect the impedance to be around 800R // 2p5 or 2.6.

I do not have a network analyser to determine the impedance.

Thanks

Regards

David

W3JDR wrote:
> Also, you don't say what the input caoacitance is. In my modeling, with an
> assumption of about 4pf for chip and strays, the voltage gain is about 9
> (19db), the resonance is a little below 400 mhz and you'd be about 10 db
> down at 434 mhz. I agree with Tim...tune it.
>
> Joe
> W3JDR
>
>
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> news:UOOdnSMe1uexobzYnZ2dnUVZ_sGdnZ2d@web-ster.com...
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```
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>>>
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>>
>> --
>>
>> Tim Wescott
>> Wescott Design Services
>> http://www.wescottdesign.com
>>
>> Posting from Google?  See http://cfaj.freeshell.org/google/
>>
>> "Applied Control Theory for Embedded Systems" came out in April.
>> See details at http://www.wescottdesign.com/actfes/actfes.html
>
>


From -3228293178377610509
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-
mail
From: bob_deep@yahoo.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
Subject: Re: Proposal 3 (US Hams)
Date: 2 Oct 2006 21:23:51 -0700
Organization: http://groups.google.com
Lines: 18
Message-ID: <1159849431.252394.325320@b28g2000cwb.googlegroups.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>
   <d-adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net>
```

   <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
   <FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
   <1159385541.965825.190570@d34g2000cwd.googlegroups.com>
   <12hlmilh2mu4u46@corp.supernews.com>
NNTP-Posting-Host: 204.62.8.141
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159849437 9334 127.0.0.1 (3 Oct 2006 04:23:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 3 Oct 2006 04:23:57 +0000 (UTC)
In-Reply-To: <12hlmilh2mu4u46@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=204.62.8.141;
   posting-account=knMWMQ0AAACma615_DQioSE9uvOCZgOy
Xref: g2news2.google.com rec.radio.amateur.homebrew:7238
rec.radio.amateur.policy:48243 rec.radio.swap:8179
rec.radio.amateur.boatanchors:5726

Joel Kolstad wrote:
>
> I think I'm pretty much in agreement with you... 5 WPM is not an unreasonable
> barrier to entry, and I don't particular oppose keeping it around, but I do
> think it seems awfully arbitrary, and this refelcts somewhat poorly on hams as
> a group trying to present themselves as modern and professional.
>

Well, we agree that we should keep this requirement, but I don't agree
that CW should seen as reflecting poorly on us hams. CW operation,
albeit old fashion, remains a useful skill that I think should be
encouraged. I do acknowledge that the new digital modes and computer
based CW does make CW skills less necessary, but I don't think we
should consider it old fashion or out of date.

-= Bob =-

From 1663200862537279331
X-Google-Thread: fc2a5,c795c2ce13673c93
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: "RST Engineering" <jim@rstengineering.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1Z2Ug.39931$rP1.16940@news-server.bigpond.net.au>
<UOOdnSMe1uexobzYnZ2dnUVZ_sGdnZ2d@web-ster.com> <g3fUg.861$If3.394@trnddc07>
<60hUg.40305$rP1.26302@news-server.bigpond.net.au>

Subject: Re: Trouble matching SA605 input at 434 MHz
Lines: 90
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <RRoUg.69$Ys1.793708@news.sisna.com>
Date: Tue, 3 Oct 2006 01:07:37 -0700
NNTP-Posting-Host: 70.41.242.222
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1159862769 70.41.242.222 (Tue, 03 Oct 2006 02:06:09 MDT)
NNTP-Posting-Date: Tue, 03 Oct 2006 02:06:09 MDT
Organization: Internet News Service
X-Received-Date: Tue, 03 Oct 2006 02:06:09 MDT (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7239

Your 10 nanofarad capacitor as a bypass on the low RF input is ridiculous.
It has to have a self-resonance down in the low MHz., if not the kHz.

Use a bypass something on the order of 50 pf if a leaded capacitor, and
something like 200 pf if a chip.

Jim

"David" <dhuisman@bigpond.net.au> wrote in message
news:60hUg.40305$rP1.26302@news-server.bigpond.net.au...

> Yes, I tune the series capacitance of the tap(3-10p trimmer), the 5.6pF is
> the calculated value.
> The input capacitance of the IC is assumed to be around 2.6pF and I
> allowed a couple of pF stray circuit capacitance.
>
> As the match is so broad due to low Q, I would assume the tuning is not
> critical and that any matching closer to the device input impedance would
> show a significant improvement in sensitivity.
>
> Does anyone know what the impedance of the SA605 is at 434 MHz?
>
> Philips APP note AN1994 shows a table that states 1785 Ohms // 2.5 pF at
> 250 MHz and dropping to 588 Ohms // 2.75pF at 500 MHz. If I interpolate
> the values between these points and assume the change is almost linear
> then I would expect the impedance to be around 800R // 2p5 or 2.6.
>
> I do not have a network analyser to determine the impedance.
>
> Thanks
>
> Regards
>
> David

```
>
>
> W3JDR wrote:
>> Also, you don't say what the input caoacitance is. In my modeling, with
>> an
>> assumption of about 4pf for chip and strays, the voltage gain is about 9
>> (19db), the resonance is a little below 400 mhz and you'd be about 10 db
>> down at 434 mhz. I agree with Tim...tune it.
>>
>> Joe
>> W3JDR
>>
>>
>> "Tim Wescott" <tim@seemywebsite.com> wrote in message
>> news:UOOdnSMe1uexobzYnZ2dnUVZ_sGdnZ2d@web-ster.com...
>>> David wrote:
>>>
>>>> I am having trouble matching to the input of a SA605 at 434 MHz.
>>>>
>>>> If I apply a sig gen directly to pin 1 via a 1n cap I get around - 95Bm
>>>> sensitivity. I then add my match and the sensitivity drops more than
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>>>> correctly.
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>>>> First I tried matching to 800R as per input impedance listed in the
>>>> Philips APP note. I then noticed most applications matched to 1k5.
>>>>
>>>> My current circuit is C-Tap (33pF to ground and series 5p6 to
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>>>> 18.5nH inductor (Q = 100) across input pins 1 and 2.
>>>> 10n decoupling cap from pin 2 to ground.
>>>>
>>>> Any help much appreciated.
>>>>
>>>> Regards
>>>>
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>>> You don't mention any adjustable components -- you _are_ tuning this
>>> thing, right?  Your circuit will have a loaded Q of around 5, so you
>>> should see a pretty broad peak, but you will have to tune out all your
>>> stray capacitance.
>>>
>>> --
>>>
>>> Tim Wescott
>>> Wescott Design Services
>>> http://www.wescottdesign.com
>>>
>>> Posting from Google?  See http://cfaj.freeshell.org/google/
>>>
>>> "Applied Control Theory for Embedded Systems" came out in April.
>>> See details at http://www.wescottdesign.com/actfes/actfes.html
>>
```

From -2771232097782741057
X-Google-Thread: fc2a5,c795c2ce13673c93
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!newsfeed.news.ucla.edu!ihnp4.ucsd.edu!sdd.hp.com!news-pa1.hpl.hp.com!news.compaq.com!newsfeeds.ihug.co.nz!ihug.co.nz!ken-transit.news.telstra.net!lon-in.news.telstra.net!news.telstra.net!news-server.bigpond.net.au!53ab2750!not-for-mail
From: David <dhuisman@bigpond.net.au>
Reply-To: dhuisman@bigpond.net.au
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Trouble matching SA605 input at 434 MHz
References: <1Z2Ug.39931$rP1.16940@news-server.bigpond.net.au> <UOOdnSMe1uexobzYnZ2dnUVZ_sGdnZ2d@web-ster.com> <g3fUg.861$If3.394@trnddc07> <60hUg.40305$rP1.26302@news-server.bigpond.net.au> <RRoUg.69$Ys1.793708@news.sisna.com>
In-Reply-To: <RRoUg.69$Ys1.793708@news.sisna.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 104
Message-ID: <tbrUg.40616$rP1.33786@news-server.bigpond.net.au>
Date: Tue, 03 Oct 2006 10:45:45 GMT
NNTP-Posting-Host: 143.238.85.229
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1159872345 143.238.85.229 (Tue, 03 Oct 2006 20:45:45 EST)
NNTP-Posting-Date: Tue, 03 Oct 2006 20:45:45 EST
Organization: BigPond Internet Services
Xref: g2news2.google.com rec.radio.amateur.homebrew:7240

Jim,

I replaced the ridiculously large 10n with 200pF as suggested. Not a gnat's wisker difference in the response. Should this have some noticeable difference ?

The Philips app note AN1993 shows a 152 MHz RF receiver using even larger and more ridiculous 100nF values for the RF decoupling throughout the circuit. Why would the IC manufacturer use these values ?

Regards

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RST Engineering wrote:
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> It has to have a self-resonance down in the low MHz., if not the kHz.

```
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>
>
>
>
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> news:60hUg.40305$rP1.26302@news-server.bigpond.net.au...
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>>>>
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>>>>>
```

```
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>>>>> 10dB. I am expecting 10dB increase in sensitivity when input is matched
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>>>>>
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>>>>>
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>>>>> 10n decoupling cap from pin 2 to ground.
>>>>>
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>>>>> Regards
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>>>> stray capacitance.
>>>>
>>>> --
>>>>
>>>> Tim Wescott
>>>> Wescott Design Services
>>>> http://www.wescottdesign.com
>>>>
>>>> Posting from Google?  See http://cfaj.freeshell.org/google/
>>>>
>>>> "Applied Control Theory for Embedded Systems" came out in April.
>>>> See details at http://www.wescottdesign.com/actfes/actfes.html
>


From -2565211605487822174
X-Google-Thread: fc2a5,2783be502e10bf83,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!news.glorb.com!uns-
out.usenetserver.com!news.usenetserver.com!pc02.usenetserver.com!PRIMUS.CA-
a2kHrUvQQWlmc!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: RF data modules
From: SW <SW@!aol.com>
Organization: none
User-Agent: Xnews/5.04.25
Message-ID: <26f76$45226eba$d871df4e$21265@PRIMUS.CA>
X-Complaints-To: abuse@usenetserver.com
Date: Tue, 03 Oct 2006 10:07:54 -0400
Lines: 7
X-Trace: 26f7645226eba7dd47aeb21265
```

Xref: g2news2.google.com rec.radio.amateur.homebrew:7241

What are some RF modules that work well to transmit serial data from a computer to another device.
Will consider homebrew circuits.

Thanks

SW

From -779430174740449752
X-Google-Thread: fc2a5,c795c2ce13673c93
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: "RST Engineering" <jim@rstengineering.com>
Newsgroups: rec.radio.amateur.homebrew
References: <1Z2Ug.39931$rP1.16940@news-server.bigpond.net.au>
<UOOdnSMe1uexobzYnZ2dnUVZ_sGdnZ2d@web-ster.com> <g3fUg.861$If3.394@trnddc07>
<60hUg.40305$rP1.26302@news-server.bigpond.net.au>
<RRoUg.69$Ys1.793708@news.sisna.com> <tbrUg.40616$rP1.33786@news-server.bigpond.net.au>
Subject: Re: Trouble matching SA605 input at 434 MHz
Lines: 29
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <1evUg.76$5k1.753766@news.sisna.com>
Date: Tue, 3 Oct 2006 08:23:28 -0700
NNTP-Posting-Host: 70.41.242.222
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1159888893 70.41.242.222 (Tue, 03 Oct 2006 09:21:33 MDT)
NNTP-Posting-Date: Tue, 03 Oct 2006 09:21:33 MDT
Organization: Internet News Service
X-Received-Date: Tue, 03 Oct 2006 09:21:33 MDT (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7242

"David" <dhuisman@bigpond.net.au> wrote in message
news:tbrUg.40616$rP1.33786@news-server.bigpond.net.au...
> Jim,
>
> I replaced the ridiculously large 10n with 200pF as suggested. Not a
> gnat's wisker difference in the response. Should this have some noticeable
> difference ?

Only if the low side RF input grounding makes a bit of difference in the performance. It seems as though this device is rather numb to doing anything with the other balanced input.

>
> The Philips app note AN1993 shows a 152 MHz RF receiver using even larger
> and more ridiculous 100nF values for the RF decoupling throughout the
> circuit. Why would the IC manufacturer use these values ?

Several reasons come to mind. The aforementioned numb unused input. They found some interesting motorboating (low frequency) proclivities and started throwing capacitors at it until they found the right value. The applications engineer was two weeks out of school on his first real RF circuit.

Jim

```
From 5357271882603915625
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!c28g2000cwb.googlegroups.com!not-for-
mail
From: "kb9rqz-2@hotmail.com" <kb9rqz-2@hotmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
Subject: Re: Proposal 3 (US Hams)
Date: 3 Oct 2006 11:42:10 -0700
Organization: http://groups.google.com
Lines: 20
Message-ID: <1159900929.982877.78090@c28g2000cwb.googlegroups.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>
   <d-adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net>
   <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
   <FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
   <1159385541.965825.190570@d34g2000cwd.googlegroups.com>
   <12hlmilh2mu4u46@corp.supernews.com>
   <1159849431.252394.325320@b28g2000cwb.googlegroups.com>
NNTP-Posting-Host: 66.82.9.90
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159900935 3894 127.0.0.1 (3 Oct 2006 18:42:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 3 Oct 2006 18:42:15 +0000 (UTC)
In-Reply-To: <1159849431.252394.325320@b28g2000cwb.googlegroups.com>
User-Agent: G2/1.0
```

```
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: c28g2000cwb.googlegroups.com; posting-host=66.82.9.90;
   posting-account=a7K0SA0AAADJhiRpuowwQAePXZnEQc8e
Xref: g2news2.google.com rec.radio.amateur.homebrew:7243
rec.radio.amateur.policy:48326 rec.radio.swap:8202
rec.radio.amateur.boatanchors:5737


bob_deep@yahoo.com wrote:
> Joel Kolstad wrote:
> >
> > I think I'm pretty much in agreement with you... 5 WPM is not an unreasonable
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> albeit old fashion, remains a useful skill that I think should be
> encouraged.  I do acknowledge that the new digital modes and computer
> based CW does make CW skills less necessary, but I don't think we
> should consider it old fashion or out of date.
it is old fashioned obselete and damaging to the ARS
>
> -= Bob =-



From 6897693928277016131
X-Google-Thread: fc2a5,d3a9454608cabffe
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!transit3.readnews.com!news-
out.readnews.com!news-xxxfer.readnews.com!news-out.readnews.com!
postnews3.readnews.com!posts.news.usenetmonster.com!
nnrp0.asbnva.usenetmonster.com!not-for-mail
From: "JimL" <jimbethladd@aol.com>
Newsgroups: rec.radio.amateur.homebrew
References: <451fc696$0$4682$ec3e2dad@news.usenetmonster.com>
Subject: Re: Tektronix Scope Question
Date: Sun, 1 Oct 2006 16:32:43 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Lines: 14
Message-ID: <4522bb46$0$4700$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
```

```
NNTP-Posting-Host: 47e986dd.news.usenetmonster.com
X-Trace:
DXC=_ldSSfAlM=Z;fnd>H9LM9Ym>XX`Id5knX`IohDjb_78\i_ZVoe2c3<RS@nCFQNo27TV]UnmY7I`F^G
dkLWN=Z0@UHk3c3;:`R>YNeh3:^b7GFVeK9o<EY`nGX
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7244
```

I now have the answer so no need to reply. Thanks, Jim.

"JimL" <jimbethladd@aol.com> wrote in message
news:451fc696$0$4682$ec3e2dad@news.usenetmonster.com...
>I need to buy a time base plug-in for my Tek 7704 mainframe.
>
> The7B53A is described as being a "Delayed/delaying time base in one",
> while the 7B71 is a" Delaying time base".
>
> Can someone tell me the difference? Tnx, Jim.
>

```
From -3108803734801651054
X-Google-Thread: fc2a5,d3a9454608cabffe
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!peer01.cox.net!cox.net!
newsfeeds.sol.net!10.218.45.202.MISMATCH!newspump.sol.net!news-out.readnews.com!
postnews3.readnews.com!posts.news.usenetmonster.com!
nnrp0.asbnva.usenetmonster.com!not-for-mail
From: "JimL" <jimbethladd@aol.com>
Newsgroups: rec.radio.amateur.homebrew
References: <451fc696$0$4682$ec3e2dad@news.usenetmonster.com>
Subject: Re: Tektronix Scope Question
Date: Tue, 3 Oct 2006 16:02:10 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Lines: 15
Message-ID: <4522c416$0$3138$ec3e2dad@news.usenetmonster.com>
Organization: Usenet Monster - http://www.usenetmonster.com
NNTP-Posting-Host: 0fe17aef.news.usenetmonster.com
X-Trace:
DXC=CKO5M[md9nVhAIoJlB:2mQfmBVYh0PF`V7:fG3B6S`dSC=@X2IT8<@PC92P2_gPk6YNDGKJ?U5m?
TAmXDJ7MT?L_Z54\IX7YdIWB34>gV>hmSPVf\GH3RFC?V
X-Complaints-To: killthespammer@usenetmonster.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7245
```

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> while the 7B71 is a" Delaying time base".
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>

Many tnx to all- I did look up the patent. I really appreciate your efforts.
I ordered a 7B53A and will see if that is adequate. Jim.

From 9194652821820799013
X-Google-Thread: fc2a5,f3a4aeab8ebd6098
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!
news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 03 Oct 2006 16:33:46 -0500
From: Dan Andersson <dan@andersson.co.uk>
Subject: Re: SMD
Newsgroups: rec.radio.amateur.homebrew
Date: Tue, 03 Oct 2006 22:33:42 +0100
References: <pD8Sg.47149$7D6.36129@newsfe2-win.ntli.net>
Organization: @Home
User-Agent: KNode/0.10.1
MIME-Version: 1.0
Content-Type: text/plain; charset=utf-8
Content-Transfer-Encoding: 8Bit
Message-ID: <bJGdnbizr72nSr_YRVnyvQ@eclipse.net.uk>
Lines: 35
NNTP-Posting-Host: 87.102.21.150
X-Trace: sv3-v9YxnNPW8J0cfrFSOspdOiGUoU+oGLc0mAuR+nJRiyPQ+oPqfKDEHe/
Om2nIinspwROCzAWjqOEJlmV!
gEoUUBhN25Xd3vtH5fWBHIr2sqNSRgz0eI+SOBLYWkkNYGskvTP2XRvNQqFMylHCcS+1LKIog4kx!
duVYkd0=
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7246

tony.swanborough wrote:

> Hi all, could some kind soul please help me !!
>

> I live in the uk, looking to buy small amounts of SMD, ie
>
> Resistors/capacitors etc   Local (UK) if possible !
>
> TIA
> Tony

Tony,

If I'm in a hurry, I order SMD's from Farnell.

For "planned" homebrews, I order SMD combo packs from Chinese E-Bay traders. You can find 5000 assorted and bagged resistors and 3000 ditto capacitors for less than £10 incl p&p. Look for "SMD resistors" on e-bay.

I even buy more expensive SMD'parts on E-bay and you can find real SMD bargains. Many SMD components have a "best before" date with less than a year solder warranty from the suppliers. It basically means that they doesn't guarantee the components if machine soldered. As an example, I bought 100 pcs of 33.333MHz SMD oscillators for 99 pence plus £2 p&p. That's less than 1 pence per oscillator! (plus p&p)

Guess why a lot of my designs currently are based around 33.333 MHz Epson oscillators...

Buying SMD oscillators on lower freqs are normally around £3 to £7 each.

Cheers

Dan / M0DFI

From -3696706908763212025
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone.austin.rr.com!news.rr.com!tornado.texas.rr.com.POSTED!53ab2750!not-for-mail
From: "U-Know-Who" <no-one@nowhere.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amateur.boatanchors
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>   <d-adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net>   <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>   <FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net> <1159385541.965825.190570@d34g2000cwd.googlegroups.com> <12hlmilh2mu4u46@corp.supernews.com> <1159849431.252394.325320@b28g2000cwb.googlegroups.com>

```
<1159900929.982877.78090@c28g2000cwb.googlegroups.com>
Subject: Re: Proposal 3 (US Hams)
Lines: 27
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <5aCUg.25279$DU3.9144@tornado.texas.rr.com>
Date: Tue, 03 Oct 2006 23:15:13 GMT
NNTP-Posting-Host: 67.10.92.242
X-Complaints-To: abuse@rr.com
X-Trace: tornado.texas.rr.com 1159917313 67.10.92.242 (Tue, 03 Oct 2006 18:15:13
CDT)
NNTP-Posting-Date: Tue, 03 Oct 2006 18:15:13 CDT
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7247
rec.radio.amateur.policy:48351 rec.radio.swap:8211
rec.radio.amateur.boatanchors:5742


<kb9rqz-2@hotmail.com> wrote in message
news:1159900929.982877.78090@c28g2000cwb.googlegroups.com...
>
> bob_deep@yahoo.com wrote:
>> Joel Kolstad wrote:
>> >
>> > I think I'm pretty much in agreement with you... 5 WPM is not an
>> > unreasonable
>> > barrier to entry, and I don't particular oppose keeping it around, but
>> > I do
>> > think it seems awfully arbitrary, and this refelcts somewhat poorly on
>> > hams as
>> > a group trying to present themselves as modern and professional.
>> >
>>
>> Well, we agree that we should keep this requirement, but I don't agree
>> that CW should seen as reflecting poorly on us hams.  CW operation,
>> albeit old fashion, remains a useful skill that I think should be
>> encouraged.  I do acknowledge that the new digital modes and computer
>> based CW does make CW skills less necessary, but I don't think we
>> should consider it old fashion or out of date.
> it is old fashioned obselete and damaging to the ARS

Not if it keeps you off HF.




From 514599553052655669
X-Google-Thread: fc2a5,f3a4aeab8ebd6098
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
```

Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.77.MISMATCH!hwmnpeer03.lga!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!newsfe05.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <pD8Sg.47149$7D6.36129@newsfe2-win.ntli.net>
<bJGdnbizr72nSr_YRVnyvQ@eclipse.net.uk>
Subject: Re: SMD
Lines: 33
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <NlCUg.606$KS4.50@newsfe05.lga>
X-Trace:
hikehalegljkcnnfijjdnojopddcmjimjaabacpibepceahdnicfceledepkikoolhlefpnpglhfdcnhfb
ceodhalfidbkicmbifoooaedibpgndbmkhjfdnkcecgmjabcnegbbojhamihnb
NNTP-Posting-Date: Tue, 03 Oct 2006 16:27:41 MST
Date: Tue, 3 Oct 2006 19:27:39 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:7248

ROTFLMAO - I had to share this

I took a peek on Bay and the first interesting I ran across was from a
British supplier (I'm in the U.S.) There was a link that stated that the
translation was provided by eBay and might not be accurate. So I clicked on
the link and read it in the original English! I'm not so sure what they
translated since the word colour never appeared.

..

"Dan Andersson" <dan@andersson.co.uk> wrote in message
news:bJGdnbizr72nSr_YRVnyvQ@eclipse.net.uk...
> tony.swanborough wrote:
>
>> Hi all, could some kind soul please help me !!
>>
>> I live in the uk, looking to buy small amounts of SMD, ie
>>
>> Resistors/capacitors etc   Local (UK) if possible !
>>
>> TIA
>> Tony
>
> Tony,
>
> If I'm in a hurry, I order SMD's from Farnell.
>
> For "planned" homebrews, I order SMD combo packs from Chinese E-Bay
> traders.
> You can find 5000 assorted and bagged resistors and 3000 ditto capacitors

```
> for less than �10 incl p&p. Look for "SMD resistors" on e-bay.




From 1491084690659500015
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!newsfeed.news2me.com!
newshub.sdsu.edu!nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-
mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
Subject: Re: Proposal 3 (US Hams)
Date: Tue, 03 Oct 2006 21:36:45 -0400
Message-ID: <n046i2tn6eil67cn8d0q4f6do782k5mi4c@4ax.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>   <d-
adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net>   <g40vCXBzNU8x-pn2-
xidDCXv10dGz@localhost>   <FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
<1159385541.965825.190570@d34g2000cwd.googlegroups.com>
<12hlmilh2mu4u46@corp.supernews.com>
<1159849431.252394.325320@b28g2000cwb.googlegroups.com>
<1159900929.982877.78090@c28g2000cwb.googlegroups.com>
<5aCUg.25279$DU3.9144@tornado.texas.rr.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 8
NNTP-Posting-Date: 04 Oct 2006 00:41:18 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7249
rec.radio.amateur.policy:48363 rec.radio.swap:8215
rec.radio.amateur.boatanchors:5750

On Tue, 03 Oct 2006 23:15:13 GMT, "U-Know-Who" <no-one@nowhere.com>
wrote:

>
>Not if it keeps you off HF.
but it doesn't tom you know that
>
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com
```

```
From 8793531167362276974
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone.austin.rr.com!news.rr.com!
tornado.texas.rr.com.POSTED!53ab2750!not-for-mail
From: "U-Know-Who" <no-one@nowhere.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>   <d-
adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net>   <g40vCXBzNU8x-pn2-
xidDCXv10dGz@localhost>   <FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
<1159385541.965825.190570@d34g2000cwd.googlegroups.com>
<12hlmilh2mu4u46@corp.supernews.com>
<1159849431.252394.325320@b28g2000cwb.googlegroups.com>
<1159900929.982877.78090@c28g2000cwb.googlegroups.com>
<5aCUg.25279$DU3.9144@tornado.texas.rr.com>
<n046i2tn6eil67cn8d0q4f6do782k5mi4c@4ax.com>
Subject: Re: Proposal 3 (US Hams)
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <9PEUg.1728$5o5.1317@tornado.texas.rr.com>
Date: Wed, 04 Oct 2006 02:15:33 GMT
NNTP-Posting-Host: 67.10.92.242
X-Complaints-To: abuse@rr.com
X-Trace: tornado.texas.rr.com 1159928133 67.10.92.242 (Tue, 03 Oct 2006 21:15:33
CDT)
NNTP-Posting-Date: Tue, 03 Oct 2006 21:15:33 CDT
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7250
rec.radio.amateur.policy:48378 rec.radio.swap:8218
rec.radio.amateur.boatanchors:5755
```

<Mark@kb9rqz.net> wrote in message
news:n046i2tn6eil67cn8d0q4f6do782k5mi4c@4ax.com...

> On Tue, 03 Oct 2006 23:15:13 GMT, "U-Know-Who" <no-one@nowhere.com>
> wrote:
>
>>
>>Not if it keeps you off HF.
> but it doesn't tom you know that

>>

BTW, you never did say what you use the AL-80 for. Keeping warm in the winter?

From -8836556807550482018
X-Google-Thread: fc2a5,c795c2ce13673c93
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i3g2000cwc.googlegroups.com!not-for-mail
From: "MarkAren" <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Trouble matching SA605 input at 434 MHz
Date: 3 Oct 2006 19:24:21 -0700
Organization: http://groups.google.com
Lines: 29
Message-ID: <1159928660.977486.271720@i3g2000cwc.googlegroups.com>
References: <1Z2Ug.39931$rP1.16940@news-server.bigpond.net.au>
NNTP-Posting-Host: 222.155.191.5
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159928665 5454 127.0.0.1 (4 Oct 2006 02:24:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 4 Oct 2006 02:24:25 +0000 (UTC)
In-Reply-To: <1Z2Ug.39931$rP1.16940@news-server.bigpond.net.au>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i3g2000cwc.googlegroups.com; posting-host=222.155.191.5;
   posting-account=0vCTfAwAAACvA6pNXnot7Fa7QcUC1A3e
Xref: g2news2.google.com rec.radio.amateur.homebrew:7251

David,

http://www.geocities.com/markaren10/misc/SA605.gif

You had this in mind ??

-Mark.

David wrote:
> I am having trouble matching to the input of a SA605 at 434 MHz.
>
> If I apply a sig gen directly to pin 1 via a 1n cap I get around - 95Bm
> sensitivity. I then add my match and the sensitivity drops more than
> 10dB. I am expecting 10dB increase in sensitivity when input is matched
> correctly.
>

> First I tried matching to 800R as per input impedance listed in the
> Philips APP note. I then noticed most applications matched to 1k5.
>
> My current circuit is C-Tap (33pF to ground and series 5p6 to inductor).
> 18.5nH inductor (Q = 100) across input pins 1 and 2.
> 10n decoupling cap from pin 2 to ground.
>
> Any help much appreciated.
>
> Regards
>
> David

From -672045401764569309
X-Google-Thread: fc2a5,c795c2ce13673c93
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!newspeer1.nwr.nac.net!newsfeeds.ihug.co.nz!ihug.co.nz!ken-transit.news.telstra.net!lon-in.news.telstra.net!news.telstra.net!news-server.bigpond.net.au!53ab2750!not-for-mail
From: David <dhuisman@bigpond.net.au>
Reply-To: dhuisman@bigpond.net.au
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Trouble matching SA605 input at 434 MHz
References: <1Z2Ug.39931$rP1.16940@news-server.bigpond.net.au>
<1159928660.977486.271720@i3g2000cwc.googlegroups.com>
In-Reply-To: <1159928660.977486.271720@i3g2000cwc.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 38
Message-ID: <ZyFUg.40975$rP1.24229@news-server.bigpond.net.au>
Date: Wed, 04 Oct 2006 03:06:33 GMT
NNTP-Posting-Host: 60.228.145.109
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1159931193 60.228.145.109 (Wed, 04 Oct 2006 13:06:33 EST)
NNTP-Posting-Date: Wed, 04 Oct 2006 13:06:33 EST
Organization: BigPond Internet Services
Xref: g2news2.google.com rec.radio.amateur.homebrew:7252

Mark,

Yes, that's the circuit I am having trouble with.

Regards

David

```
MarkAren wrote:
> David,
>
> http://www.geocities.com/markaren10/misc/SA605.gif
>
> You had this in mind ??
>
> -Mark.
>
> David wrote:
>> I am having trouble matching to the input of a SA605 at 434 MHz.
>>
>> If I apply a sig gen directly to pin 1 via a 1n cap I get around - 95Bm
>> sensitivity. I then add my match and the sensitivity drops more than
>> 10dB. I am expecting 10dB increase in sensitivity when input is matched
>> correctly.
>>
>> First I tried matching to 800R as per input impedance listed in the
>> Philips APP note. I then noticed most applications matched to 1k5.
>>
>> My current circuit is C-Tap (33pF to ground and series 5p6 to inductor).
>> 18.5nH inductor (Q = 100) across input pins 1 and 2.
>> 10n decoupling cap from pin 2 to ground.
>>
>> Any help much appreciated.
>>
>> Regards
>>
>> David
>


From -8436017762696916590
X-Google-Thread: fc2a5,c795c2ce13673c93
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: "MarkAren" <markaren10@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Trouble matching SA605 input at 434 MHz
Date: 3 Oct 2006 20:21:55 -0700
Organization: http://groups.google.com
Lines: 54
Message-ID: <1159932115.903458.36920@m7g2000cwm.googlegroups.com>
References: <1Z2Ug.39931$rP1.16940@news-server.bigpond.net.au>
   <1159928660.977486.271720@i3g2000cwc.googlegroups.com>
   <ZyFUg.40975$rP1.24229@news-server.bigpond.net.au>
NNTP-Posting-Host: 222.155.191.5
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159932119 13558 127.0.0.1 (4 Oct 2006 03:21:59 GMT)
```

X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 4 Oct 2006 03:21:59 +0000 (UTC)
In-Reply-To: <ZyFUg.40975$rP1.24229@news-server.bigpond.net.au>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 2.0.50727; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=222.155.191.5;
   posting-account=0vCTfAwAAACvA6pNXnot7Fa7QcUC1A3e
Xref: g2news2.google.com rec.radio.amateur.homebrew:7253

David,

What type of inductor are you using ? SMT can be sensitive with proximity issues.

Are you 100% sure that capacitor values are as you hoped - SMT can be a pain to verify.

Note, I did drop the 33pF to 15pF to improve return loss.

The 6.5pF cap is the most sensitive of all parts in the cct.

Any chance of a photo of the input network and signal coupling ?

My current bet is an inadvertently loaded wrong value component. Been there, done that etc.

Regards,

Mark

===========

David wrote:
> Mark,
> Yes, that's the circuit I am having trouble with.
> Regards
> David
>
> MarkAren wrote:
> > David,
> > http://www.geocities.com/markaren10/misc/SA605.gif
> > You had this in mind ??
> > Mark.
> >
> > David wrote:
> >> I am having trouble matching to the input of a SA605 at 434 MHz.
> >>
> >> If I apply a sig gen directly to pin 1 via a 1n cap I get around - 95Bm
> >> sensitivity. I then add my match and the sensitivity drops more than
> >> 10dB. I am expecting 10dB increase in sensitivity when input is matched
> >> correctly.

```
> >>
> >> First I tried matching to 800R as per input impedance listed in the
> >> Philips APP note. I then noticed most applications matched to 1k5.
> >>
> >> My current circuit is C-Tap (33pF to ground and series 5p6 to inductor).
> >> 18.5nH inductor (Q = 100) across input pins 1 and 2.
> >> 10n decoupling cap from pin 2 to ground.
> >>
> >> Any help much appreciated.
> >> Regards
> >> David



From -2305933254198221471
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-
mail
From: "an old friend" <kb9rqz@hotmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
Subject: Re: Proposal 3 (US Hams)
Date: 3 Oct 2006 20:22:05 -0700
Organization: http://groups.google.com
Lines: 17
Message-ID: <1159932125.628438.115220@m73g2000cwd.googlegroups.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>
   <d-adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net>
   <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
   <FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
   <1159385541.965825.190570@d34g2000cwd.googlegroups.com>
   <12hlmilh2mu4u46@corp.supernews.com>
   <1159849431.252394.325320@b28g2000cwb.googlegroups.com>
   <1159900929.982877.78090@c28g2000cwb.googlegroups.com>
   <5aCUg.25279$DU3.9144@tornado.texas.rr.com>
   <n046i2tn6eil67cn8d0q4f6do782k5mi4c@4ax.com>
   <9PEUg.1728$5o5.1317@tornado.texas.rr.com>
NNTP-Posting-Host: 66.82.9.90
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159932131 18429 127.0.0.1 (4 Oct 2006 03:22:11 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 4 Oct 2006 03:22:11 +0000 (UTC)
In-Reply-To: <9PEUg.1728$5o5.1317@tornado.texas.rr.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
```

```
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=66.82.9.90;
   posting-account=u4IZrA0AAAAnZJmD4DLlWGiEpMGb--6i
Xref: g2news2.google.com rec.radio.amateur.homebrew:7254
rec.radio.amateur.policy:48390 rec.radio.swap:8221
rec.radio.amateur.boatanchors:5758


U-Know-Who wrote:
> <Mark@kb9rqz.net> wrote in message
> news:n046i2tn6eil67cn8d0q4f6do782k5mi4c@4ax.com...
> > On Tue, 03 Oct 2006 23:15:13 GMT, "U-Know-Who" <no-one@nowhere.com>
> > wrote:
> >
> >>
> >>Not if it keeps you off HF.
> > but it doesn't tom you know that
> >>
>
> BTW, you never did say what you use the AL-80 for. Keeping warm in the
> winter?
i don't own one you are showing that you can't or don't read the posts
your coment very well



From -4252366113903059597
X-Google-Thread: fc2a5,6afbc0dc9aa4daa8,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!uio.no!news.tele.dk!
news.tele.dk!small.news.tele.dk!lnewsinpeer00.lnd.ops.eu.uu.net!emea.uu.net!
feed1.jnfs.ja.net!feed2.jnfs.ja.net!jnfs.ja.net!feeds.news.ox.ac.uk!news.ox.ac.uk!
not-for-mail
From: "Martyn Preston" <Martyn.Preston@pharm.ox.ac.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Perspex
Date: Wed, 4 Oct 2006 11:27:18 +0100
Organization: University Of Oxford, England
Lines: 6
Message-ID: <eg02a6$odj$1@frank-exchange-of-views.oucs.ox.ac.uk>
NNTP-Posting-Host: pharmitac.pharm.ox.ac.uk
X-Trace: frank-exchange-of-views.oucs.ox.ac.uk 1159957638 25011 163.1.20.55 (4 Oct
2006 10:27:18 GMT)
X-Complaints-To: newsmaster@ox.ac.uk
NNTP-Posting-Date: Wed, 4 Oct 2006 10:27:18 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Xref: g2news2.google.com rec.radio.amateur.homebrew:7255
```

Does anyone know how lossy perspex is at 2.3GHz? Want to use it to support a helical antenna.

TIA - G0THY

```
From -1159999239410605839
X-Google-Thread: fc2a5,15dfa0de275033b6
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread2.news.pas.earthlink.net.POSTED!0d4b4bc1!not-for-mail
From: "KU4YP" <ku4yp@peoplepc.com>
Newsgroups: rec.radio.amateur.homebrew
References: <XXnQg.301$o71.183@newsread3.news.pas.earthlink.net>
<1158943216.805291.277860@e3g2000cwe.googlegroups.com>
Subject: Re: Ten Tec part needed
Lines: 26
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <9kpRg.5541$UG4.3077@newsread2.news.pas.earthlink.net>
Date: Sun, 24 Sep 2006 06:11:17 GMT
NNTP-Posting-Host: 4.247.155.31
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1159078277 4.247.155.31 (Sat, 23 Sep 2006 23:11:17 PDT)
NNTP-Posting-Date: Sat, 23 Sep 2006 23:11:17 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:7056
```

tnx. didn't ask them that 73 mike ku4yp

<pdrahn@coinet.com> wrote in message
news:1158943216.805291.277860@e3g2000cwe.googlegroups.com...
> Contact Ten-Tec again and see if they have the "Gerber" files archived
> somewhere and will send them to you so you can have a board made. Send
> the Gerber files to any of the board houses and they will make you a
> board to match. May be a little costly for just one board.
>
> Paul, KD7HB
>
>
> KU4YP wrote:
>> hello all,
>>
>>   i need the rf board from a ten tec 509 rig. i had one follow me home
>> but

>> the rf board is missing. i called ten tec and they have all the parts for
>> the board, they just no longer have the board. i am planning to build the
>> final on perf board if i can not find one from a parts rig. the board or
>> rig
>> does not need to be working. i'll fix the board, just wanted to save a
>> little time. any help appreciatred. 73 mike ku4yp
>

From -5993878209354137947
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.75.MISMATCH!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe05.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
<VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
<ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
<__kRg.8194$tT6.613@bignews7.bellsouth.net>
Subject: Re: ARRL "Homebrew Challenge"
Lines: 47
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <9MvRg.3318$R%1.2615@newsfe05.lga>
X-Trace:
hikehalegljkcnnfijjdnojopddcmjimlnhigcoaidamjlnknicfceledepkikoolhlefpnpglhfdcnhph
nmhdegblpmdgehmofpmendkdkbjfbmgnjmlalchbhdhobijcecfidbdaffifbo
NNTP-Posting-Date: Sun, 24 Sep 2006 06:30:45 MST
Date: Sun, 24 Sep 2006 09:26:24 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:7057

"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
news:__kRg.8194$tT6.613@bignews7.bellsouth.net...

> The advantage of Linux is that the development tools are free, and Linux
> will run on any computer that runs windows.

Not entirely true. Linux doesn't always have the hardware support,
especially on newer boxes.

> You can also install Linux
> on top of windows (on the same computer anyway) and dual boot, so you
> can have your cake and eat it too (or have your poison and antidote too
> in my opinion!).

And why would you? Why would you suffer the complexity and frustration of Linux if Windoze is working just fine for you?

Personally, I fully enjoy having Linux servers an Windoze desktops on my home LAN, and with the magic of Cygwin, I can have Linux tools on my Windoze box, and seamless access to my Linux apps, withough fully suffering the clumsy Linux desktop.

But that is just me. Most folks want to use the applications, not the OS. Most hams aren't going to write programs, and the features of Linux will be lost on them, but the complexity sure won't. For them, all they want is a little Digipan and email, why on earth would they subject themselves to yet another set of stuff to learn? As far as i can tell, the only ham app on Linux that is better than what is available on Windoze is gEDA. Everything else is harder to use and less capable.

Now, I have a lot of ham apps on Linux that I have personally written. These provide me with functions that aren't easily available on Windoze, and the Linux environment makes it much easier. But I'm not most people. Not too many hams are comfortable writing their own applications, or even if they could, that isn't how they enjoy the hobby. For most people, including most hams, Windoze serves the purpose.

Everyone has their own set of needs, and one size doesn't fit all. I suspect there may even be some people for whom the Mac is the best answer, although I can't imagine who they might be. But the getting in price for Linux is still pretty high in terms of learning curve, and for most hams, the return is close to zero. So why bother?

..

```
From 6386996951125063182
X-Google-Thread: fc2a5,49b61278c05a1496
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!hwmnpeer01.lga!
news.highwinds-media.com!hw-filter.lga!newsfe05.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1159041425.910341.124640@i42g2000cwa.googlegroups.com>
<xBhRg.1585$QF6.1102@newsfe02.lga>   <33bbh295hea2mb9m8k948l8bslhkqi95a1@4ax.com>
<1159052369.525422.95440@i42g2000cwa.googlegroups.com>
Subject: Re: Anyone out there can help me with eprom programming?
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
```

X-RFC2646: Format=Flowed; Original
Message-ID: <DQvRg.3320$R%1.1224@newsfe05.lga>
X-Trace:
hikehalegljkcnnfijjdnojopddcmjimlbkcmmakigigglmmnicfceledepkikoolhlefpnpglhfdcnhph
nmhdegblpmdgehmofpmendkdkbjfbmphkeecdmchpiapggbcnegbbojhamihnb
NNTP-Posting-Date: Sun, 24 Sep 2006 06:35:31 MST
Date: Sun, 24 Sep 2006 09:36:13 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:7058

"Atlanta-ham" <swanradio@juno.com> wrote in message
news:1159052369.525422.95440@i42g2000cwa.googlegroups.com...

> I've looked around at PIC circuits, and understand I could program
> quite easily with my computer, however, I'm not that good at
> programming a PIC either!

You indicated you had no problem with the circuit. Programming a PIC is more like designing digital logic than it is like programming in BASIC. It may be a little weird, but it isn't the least little bit hard. Its mainly a question of getting over the fear. And as Allison pointed, out, a parallel port programmer is pretty simple. In fact, it's a pretty lame junk box that doesn't already have the stuff. OK, maybe you need to buy the DB25 and the IC socket, but the rest is just any old transistor, and a few resistors and diodes.

..

From -6867015065169131057
X-Google-Thread: fc2a5,f8e977ca991bcbcd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc01.POSTED!291cd109!not-for-mail
From: Al <no.spam@wanted.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: What's in a "wall wart" so-called "transformer"?
Distribution: usa
References: <ef3ico$q5n@unix1.cc.ksu.edu>
User-Agent: MT-NewsWatcher/3.1 (PPC)
Message-ID: <no.spam-E1EFF6.10463424092006@news.verizon.net>
Lines: 43
Date: Sun, 24 Sep 2006 14:46:35 GMT
NNTP-Posting-Host: 68.239.39.146
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc01 1159109195 68.239.39.146 (Sun, 24 Sep 2006 10:46:35 EDT)
NNTP-Posting-Date: Sun, 24 Sep 2006 10:46:35 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7059

In article <ef3ico$q5n@unix1.cc.ksu.edu>, mcalhoun@ksu.edu wrote:

> I have a collection of "wall wart" (others may call them "transformers")
> and I'd like to use one to cobble a little power supply. I've never
> opened any to see what's really in them (and suspect it'll be quite a
> chore), but I'm quite sure they are not ALL "transformers", because some
> claim AC and some claim DC output, yet the first I grabbed out of the
> junkbox claimed DC AND ALSO provided a HEALTHY AC output on the same
> two wires! Furthermore, NONE of them seem to be voltage regulated!
> (But if one says "X volts at Y milliamps", then loading it to Y mils
> usually gives an output close to X volts.)
>
> So what IS in them? Do the really light-weight ones, for example,
> use a capacitor for relatively low-loss voltage dropping? And
> why would one give *BOTH* AC and DC? Bad diode(s)?

There are four types I have come across:

1: transformer only for AC
2: transformer and diode bridge for DC
3: transformer, diode bridge and linear regulator
4: switching regulator

The voltage output and the current output of the first two type depend upon the load. So for a type 2, for example, if the nameplate says 6 volts and 500 mA. That's exactly what it means. With a laod of 500 mA, the DC voltage will be 6 volts. a lighter load will result in a higher voltage, and a higher load will result in a lower voltage.

The last two will provide you with a fixed voltage for which they are rated. So, for 6 volts and 500 mA, the voltage will always be close to 6 volts as long as the current does not exceed 500 mA. Switchers may require a minimum current draw of about 10% of their maximum current rating. Thus one rated ate 500 mA needs a minmum load of 50 mA to provide the rated voltage output.

I have disassembled wall warts and used their guts for power supplies in projects. It works quite well. As our town's recycling center is full of old electronics, I have assemble quite a nice selection of wall warts that I use as PSs in projects. And the price is right, zero, except for your time.

Al

From 8220254875640364871
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 24 Sep 2006 09:58:23 -0500
From: Danny Richardson <n_group@k6mhe.com>

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL "Homebrew Challenge"
Date: Sun, 24 Sep 2006 07:58:22 -0700
Message-ID: <kc6dh212cc3i4obbmgqu8ak9phvp58djc6@4ax.com>
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
<VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
<ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
<__kRg.8194$tT6.613@bignews7.bellsouth.net> <9MvRg.3318$R%1.2615@newsfe05.lga>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 64
NNTP-Posting-Host: 68.64.59.124
X-Trace: sv3-gCGrr7BxNxUKfPJNYpdIqW1J5rlE9L0/
GIITbdOPf61xRgFUpqUjWIgxnlPxEFuAzdZUmIAsZceosiQ!
REzSwjQMDCVCo1u4u+CImoXLRSaxnpHxosQO0qvbdsIzdvJPD7IAmV07y1r0SzQRueGLXBS088NM!
aaYhTs6m/svkqnRV361y
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7060

On Sun, 24 Sep 2006 09:26:24 -0400, "xpyttl"
<xpyttl_NOSPAM@earthling.net> wrote:

>"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
>news:__kRg.8194$tT6.613@bignews7.bellsouth.net...
>
>> The advantage of Linux is that the development tools are free, and Linux
>> will run on any computer that runs windows.
>
>Not entirely true.  Linux doesn't always have the hardware support,
>especially on newer boxes.
>
>>  You can also install Linux
>> on top of windows (on the same computer anyway) and dual boot, so you
>> can have your cake and eat it too (or have your poison and antidote too
>> in my opinion!).
>
>And why would you?  Why would you suffer the complexity and frustration of
>Linux if Windoze is working just fine for you?
>
>Personally, I fully enjoy having Linux servers an Windoze desktops on my
>home LAN, and with the magic of Cygwin, I can have Linux tools on my Windoze
>box, and seamless access to my Linux apps, withough fully suffering the
>clumsy Linux desktop.
>
>But that is just me.  Most folks want to use the applications, not the OS.
>Most hams aren't going to write programs, and the features of Linux will be
```

>lost on them, but the complexity sure won't. For them, all they want is a
>little Digipan and email, why on earth would they subject themselves to yet
>another set of stuff to learn? As far as i can tell, the only ham app on
>Linux that is better than what is available on Windoze is gEDA. Everything
>else is harder to use and less capable.
>
>Now, I have a lot of ham apps on Linux that I have personally written.
>These provide me with functions that aren't easily available on Windoze, and
>the Linux environment makes it much easier. But I'm not most people. Not
>too many hams are comfortable writing their own applications, or even if
>they could, that isn't how they enjoy the hobby. For most people, including
>most hams, Windoze serves the purpose.
>
>Everyone has their own set of needs, and one size doesn't fit all. I
>suspect there may even be some people for whom the Mac is the best answer,
>although I can't imagine who they might be. But the getting in price for
>Linux is still pretty high in terms of learning curve, and for most hams,
>the return is close to zero. So why bother?
>
>..

Excellent response. I too have a Linux system on my shack computer
dual-booting with Winders. I removed Linux from my main computer as
after several months of searching I could never find a decent driver
for my video card and wasn't about to buy another card when there was
nothing wrong with one I have except there aren't any Linux drivers
for it.

Plus setting the sucker up is a PITA. Kind of a cross between DOS and
Window '98. Finding extensions, plugins, or what ever you may call
them is some what like a scavenger hunt and takes a LOT of time and
effort.

If one takes the time and endures the learning curve the results are
often quite good. The system is very stable and works well.

73,
Danny, K6MHE

```
From -340542834310838562
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!cycny01.gnilink.net!
spamkiller2.gnilink.net!gnilink.net!trndny01.POSTED!3e34f8a9!not-for-mail
From: Leroy <nota.ham@never.will.be>
Organization: Radio Free America
Subject: Re: ARRL "Homebrew Challenge"
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2006.09.24.16.15.04.449486@never.will.be>
Newsgroups: rec.radio.amateur.homebrew
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
<VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
```

```
<ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
<__kRg.8194$tT6.613@bignews7.bellsouth.net> <9MvRg.3318$R%1.2615@newsfe05.lga>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 16
Date: Sun, 24 Sep 2006 16:15:09 GMT
NNTP-Posting-Host: 70.19.134.210
X-Complaints-To: abuse@verizon.net
X-Trace: trndny01 1159114509 70.19.134.210 (Sun, 24 Sep 2006 12:15:09 EDT)
NNTP-Posting-Date: Sun, 24 Sep 2006 12:15:09 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7061
```

On Sun, 24 Sep 2006 09:26:24 -0400, xpyttl wrote:

> And why would you? Why would you suffer the complexity and frustration of
> Linux if Windoze is working just fine for you?

Linux- not just for geeks anymore. Mepis distro, even computer illiterates
can use it.

"This is your office app for letters and spreadsheets, this is
your web/file browser, this is your e-mail. Need anything else?"

"No, that looks easy enough."

You can even make it look and feel like "Windows" if they are hesitant to
use something that seems unfamiliar.

```
From -8019168485165567139
X-Google-Thread: 108122,33ce63f8dc94b9b5
X-Google-Thread: fc2a5,33ce63f8dc94b9b5
X-Google-Thread: 10bf43,33ce63f8dc94b9b5
X-Google-Thread: 114aac,33ce63f8dc94b9b5
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,gid114aac,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews8.bellsouth.net.POSTED!35f0e4eb!not-for-mail
Reply-To: "Mr Fed UP" <mrfedup@bellsouth.net>
From: "Mr Fed UP" <mrfedup@bellsouth.net>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,re
c.radio.shortwave
References: <1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com>
<6eugg2lhifqpomku6q6dpeol34h76n88rs@4ax.com>
<12gjg5c7v745776@corp.supernews.com>   <D%lOg.16604$c07.4284@fed1read04>
<eecrj6$c5e$1@news2.kornet.net>
<1158291225.890645.27670@d34g2000cwd.googlegroups.com>
<450AC969.AEA1EE0C@earthlink.net>
```

```
<1158337419.720905.167230@p79g2000cwp.googlegroups.com>
<4515DA99.3A371D66@earthlink.net>
Subject: Re: PayPal horror stories HEH!   My 8 cents worth...
Lines: 66
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <qIyRg.28910$vX5.18302@bignews8.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
mabncmnekmdohbabdbdpiflmbcekedmfhojhikkbagflhcboobdnphjpckfmkhlfnlcecipenneodaleda
bfkjbgmcacjhmophnmhdegblpmdgehmofpmendkdkbjfbmanopimhdnfgicipidpjdffkndkaaabno
NNTP-Posting-Date: Sun, 24 Sep 2006 12:51:34 EDT
Organization: BellSouth Internet Group
Date: Sun, 24 Sep 2006 11:51:33 -0500
Xref: g2news2.google.com rec.radio.amateur.equipment:6423
rec.radio.amateur.homebrew:7062 rec.radio.amateur.policy:46078
rec.radio.shortwave:53829
```

I had been on ebray since they billed via postal mail and gave $10.00 credit
to start

you out.

Recently I had the wonderful experience of having paid my ebay via Payless
Pal and when

I went to pay the small bill.. a few bucks.   THEY made an 8 cent error in
the

bill transfer and so I figured they would just bill it on the next months
cycle.

BUT! What they did was to debit a closed bank account.

I had opened a checking account to get a Payless Pal account and closed

it so my real money was never in jeopardy. So what the idiots had done then
was

to bill me an additional $15.00 for a bounced debit they should have never
made.

In the mean time ebray has gotten so big I could not get any 'Real response
from a

Real person'   Like dealing with the government! I could find no Phone
number to

call and explain THEIR ERROR.

I just kept getting junk Spam replies from ebray.

It makes them feel good telling me I can not use ebray.   pftpftpft!

So I have since closed my ebray account.

AND my Payless Pal account a soon as I heard ebray had bought them.

For several months ebray kept billing me with additional "late charges"

HA HA ebray and Payless Pal get stuffed!

All over 8 cents they have lost a lot more than that in business since I am also

disabled and did shop over 100 items on ebray. It WAS convenient to use

and not walk through so many flea markets and hamfests. My rating WAS over 98%

Couldn't please everyone, and some sent me junk from trash cans smell and all . lol

Thanks for the vent.. off my soap box now and shopping elsewheres. :-p

From 3060457696232034815
X-Google-Thread: 108122,33ce63f8dc94b9b5
X-Google-Thread: fc2a5,33ce63f8dc94b9b5
X-Google-Thread: 10bf43,33ce63f8dc94b9b5
X-Google-Thread: 114aac,33ce63f8dc94b9b5
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,gid114aac,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-mail
From: "GG" <gerty-gravel@hotmail.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.shortwave
Subject: Re: PayPal horror stories HEH! My 8 cents worth...
Date: 24 Sep 2006 10:51:38 -0700
Organization: http://groups.google.com

```
Lines: 6
Message-ID: <1159120297.806509.298230@m7g2000cwm.googlegroups.com>
References: <1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com>
   <6eugg2lhifqpomku6q6dpeol34h76n88rs@4ax.com>
   <12gjg5c7v745776@corp.supernews.com>
   <D%lOg.16604$c07.4284@fed1read04>
   <eecrj6$c5e$1@news2.kornet.net>
   <1158291225.890645.27670@d34g2000cwd.googlegroups.com>
   <450AC969.AEA1EE0C@earthlink.net>
   <1158337419.720905.167230@p79g2000cwp.googlegroups.com>
   <4515DA99.3A371D66@earthlink.net>
   <qIyRg.28910$vX5.18302@bignews8.bellsouth.net>
NNTP-Posting-Host: 162.40.51.111
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159120303 5547 127.0.0.1 (24 Sep 2006 17:51:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sun, 24 Sep 2006 17:51:43 +0000 (UTC)
In-Reply-To: <qIyRg.28910$vX5.18302@bignews8.bellsouth.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT
5.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=162.40.51.111;
   posting-account=SjnyLg0AAAAD_9tWnzc5O6rrdLF3wRNJ
Xref: g2news2.google.com rec.radio.amateur.equipment:6428
rec.radio.amateur.homebrew:7063 rec.radio.amateur.policy:46159
rec.radio.shortwave:53833
```

You closed the bank account that the PP acount was baised on. That was not in good faith.

GG

```
From -8042704417743472431
X-Google-Thread: 108122,33ce63f8dc94b9b5
X-Google-Thread: fc2a5,33ce63f8dc94b9b5
X-Google-Thread: 10bf43,33ce63f8dc94b9b5
X-Google-Thread: 114aac,33ce63f8dc94b9b5
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,gid114aac,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!news.glorb.com!
newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!
news.supernews.com!not-for-mail
From: "Mike" <no@where.man>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,re
c.radio.shortwave
Subject: Re: PayPal horror stories HEH!   My 8 cents worth...
Date: Sun, 24 Sep 2006 15:36:48 -0400
```

```
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12hdnig1qlbkt93@news.supernews.com>
References: <1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com>
<6eugg2lhifqpomku6q6dpeol34h76n88rs@4ax.com>
<12gjg5c7v745776@corp.supernews.com>   <D%lOg.16604$c07.4284@fed1read04>
<eecrj6$c5e$1@news2.kornet.net>
<1158291225.890645.27670@d34g2000cwd.googlegroups.com>
<450AC969.AEA1EE0C@earthlink.net>
<1158337419.720905.167230@p79g2000cwp.googlegroups.com>
<4515DA99.3A371D66@earthlink.net> <qIyRg.28910$vX5.18302@bignews8.bellsouth.net>
In-Reply-To: <qIyRg.28910$vX5.18302@bignews8.bellsouth.net>
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;
     charset="iso-8859-1";
     reply-type=response
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Windows Mail 6.0.5600.16384
X-MimeOLE: Produced By Microsoft MimeOLE V6.0.5600.16384
X-Complaints-To: abuse@supernews.com
Lines: 29
Xref: g2news2.google.com rec.radio.amateur.equipment:6430
rec.radio.amateur.homebrew:7064 rec.radio.amateur.policy:46208
rec.radio.shortwave:53845
```

"Mr Fed UP" <mrfedup@bellsouth.net> wrote in message
news:qIyRg.28910$vX5.18302@bignews8.bellsouth.net...

>I had been on ebray since they billed via postal mail and gave $10.00
>credit to start
>
> you out.
>
> Recently I had the wonderful experience of having paid my ebay via Payless
> Pal and when
>
> I went to pay the small bill.. a few bucks.   THEY made an 8 cent error in
> the
>
> bill transfer and so I figured they would just bill it on the next months
> cycle.
>
> BUT! What they did was to debit a closed bank account.
>
> I had opened a checking account to get a Payless Pal account and closed

So you closed a bank account and didn't tell PayPal?   This whole mess is
your fault.

eBay is the best.   I've bought hundreds of items worth many thousands of
dollars.   Most of it could never be found locally for the same price.
Anytime I'm looking to buy *anything*, I look at eBay first.

Mike

```
From 7355838284978779961
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews7.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL "Homebrew Challenge"
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
<VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
<ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
<__kRg.8194$tT6.613@bignews7.bellsouth.net> <9MvRg.3318$R%1.2615@newsfe05.lga>
<kc6dh212cc3i4obbmgqu8ak9phvp58djc6@4ax.com>
In-Reply-To: <kc6dh212cc3i4obbmgqu8ak9phvp58djc6@4ax.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 80
Message-ID: <_1CRg.16699$tT6.2732@bignews7.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
enggpaojkliedbjjdbdpiflmbcekedmfhojhikkbagflhcbofmphgboiafaaiaengphaoggkkghhjdkkph
cflcglhokhfpiipeaaogjefembkhmknmoebahngadmnepdpaknibpelhocpaajckapaibaobfmmfhn
NNTP-Posting-Date: Sun, 24 Sep 2006 16:39:22 EDT
Organization: BellSouth Internet Group
Date: Sun, 24 Sep 2006 16:39:34 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:7065
```

Danny Richardson wrote:
> On Sun, 24 Sep 2006 09:26:24 -0400, "xpyttl"
> <xpyttl_NOSPAM@earthling.net> wrote:
>
>> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
>> news:__kRg.8194$tT6.613@bignews7.bellsouth.net...
>>
>>> The advantage of Linux is that the development tools are free, and Linux
>>> will run on any computer that runs windows.
>> Not entirely true. Linux doesn't always have the hardware support,
>> especially on newer boxes.
>>
>>> You can also install Linux
>>> on top of windows (on the same computer anyway) and dual boot, so you

>>> can have your cake and eat it too (or have your poison and antidote too
>>> in my opinion!).
>> And why would you? Why would you suffer the complexity and frustration of
>> Linux if Windoze is working just fine for you?
>>
>> Personally, I fully enjoy having Linux servers an Windoze desktops on my
>> home LAN, and with the magic of Cygwin, I can have Linux tools on my Windoze
>> box, and seamless access to my Linux apps, withough fully suffering the
>> clumsy Linux desktop.
>>
>> But that is just me. Most folks want to use the applications, not the OS.
>> Most hams aren't going to write programs, and the features of Linux will be
>> lost on them, but the complexity sure won't. For them, all they want is a
>> little Digipan and email, why on earth would they subject themselves to yet
>> another set of stuff to learn? As far as i can tell, the only ham app on
>> Linux that is better than what is available on Windoze is gEDA. Everything
>> else is harder to use and less capable.
>>
>> Now, I have a lot of ham apps on Linux that I have personally written.
>> These provide me with functions that aren't easily available on Windoze, and
>> the Linux environment makes it much easier. But I'm not most people. Not
>> too many hams are comfortable writing their own applications, or even if
>> they could, that isn't how they enjoy the hobby. For most people, including
>> most hams, Windoze serves the purpose.
>>
>> Everyone has their own set of needs, and one size doesn't fit all. I
>> suspect there may even be some people for whom the Mac is the best answer,
>> although I can't imagine who they might be. But the getting in price for
>> Linux is still pretty high in terms of learning curve, and for most hams,
>> the return is close to zero. So why bother?
>>
>> ..
> Excellent response. I too have a Linux system on my shack computer
> dual-booting with Winders. I removed Linux from my main computer as
> after several months of searching I could never find a decent driver
> for my video card and wasn't about to buy another card when there was
> nothing wrong with one I have except there aren't any Linux drivers
> for it.
>
> Plus setting the sucker up is a PITA. Kind of a cross between DOS and
> Window '98. Finding extensions, plugins, or what ever you may call
> them is some what like a scavenger hunt and takes a LOT of time and
> effort.
>
> If one takes the time and endures the learning curve the results are
> often quite good. The system is very stable and works well.
>
> 73,
> Danny, K6MHE

Those of us that have gone through the trouble of getting there know
the rewards of Linux. I agree, it's not something for everyone, but I
would think that if you have the brains to get a ham ticket and build
your own gear, you can figure it out. Also Ubuntu, Linspire (and

Freespire) provide a brainless install that usually just works.

As for hardware support, it's much better than it used to be. Almost every sound card chipset found on today's motherboards are supported. Nvidia and Ati both have Linux drivers for their latest video cards (though they are binary drivers and must be downloaded and installed by the end user....complete instructions on the manufacturer's wwebsites). Intel's own graphics chips are supported directly by the kernel.

About the only thing I find lacking is Macromedia Flash support for Linux, though there is a GNU project to provide it (gnash).

```
From -9069416182151890066
X-Google-Thread: fc2a5,f8e977ca991bcbcd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.kjsl.com!ncf.ca!
FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: What's in a "wall wart" so-called "transformer"?
Date: 24 Sep 2006 21:09:17 GMT
Organization: The National Capital FreeNet
Lines: 41
Message-ID: <ef6s5t$cjc$1@theodyn.ncf.ca>
References: <ef3ico$q5n@unix1.cc.ksu.edu> <no.spam-
E1EFF6.10463424092006@news.verizon.net>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1159132157 12908 134.117.136.48 (24 Sep 2006 21:09:17 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 24 Sep 2006 21:09:17 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7066
```

Al (no.spam@wanted.com) writes:

> I have disassembled wall warts and used their guts for power supplies in projects. It works quite well. As our town's recycling center is full of old electronics, I have assemble quite a nice selection of wall warts that I use as PSs in projects. And the price is right, zero, except for your time.
>

The ones I've opened up (mostly to see if the problem was fixable) have never seemed too adaptable. The the transformers are too integrated to the plug, or at the very least have no means of mounting them.

I admit that they are useful for projects unopened.

But I find consumer electronics (VCRs, radios, whatever) are often a better source of small transformers. They at least come with mounting holes. Of course, a fair number of VCRs I've opened up recently are using switching supplies.

I tend to bring home switching supplies from computers I see lying on the sidewalk waiting for the garbage truck to pick them up. But ironically, I take out the switching supply board, and build analog supplies inside, using parts I've salvaged from other equipment. Rare is the time I actually need the current of a switching supply, or the noise, yet the cases make quite nice boxes for analog supplies. I leave the AC socket in place, and then just use one of those cords that plug in, they now being in plentiful supply from other junk I've collected.

They'd even make nice construction boxes, covering the back panel with a piece of metal or circuit board.

On the other hand, when I got an older Powerbook some years back, once I'd scraped up the details for the missing AC adaptor, I pulled the switching supply out of an inkjet printer and it was the 24 volt supply I needed, and I had the needed AC adaptor.

Michael VE2BVW

From 7493706746595009O8
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!out02b.usenetserver.com!news.usenetserver.com!in01.usenetserver.com!news.usenetserver.com!news-xfer.nntp.sonic.net!news.kjsl.com!ncf.ca!FreeNet.Carleton.CA!et472
From: et472@FreeNet.Carleton.CA (Michael Black)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL "Homebrew Challenge"
Date: 24 Sep 2006 21:12:03 GMT
Organization: The National Capital FreeNet
Lines: 18
Message-ID: <ef6sb3$cku$1@theodyn.ncf.ca>
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
<VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
<ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
<__kRg.8194$tT6.613@bignews7.bellsouth.net> <9MvRg.3318$R%1.2615@newsfe05.lga>
<pan.2006.09.24.16.15.04.449486@never.will.be>
Reply-To: et472@FreeNet.Carleton.CA (Michael Black)
NNTP-Posting-Host: smeagol.ncf.ca
X-Trace: theodyn.ncf.ca 1159132323 12958 134.117.136.48 (24 Sep 2006 21:12:03 GMT)
X-Complaints-To: complaints@ncf.ca
NNTP-Posting-Date: 24 Sep 2006 21:12:03 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7067

```
Leroy (nota.ham@never.will.be) writes:
> On Sun, 24 Sep 2006 09:26:24 -0400, xpyttl wrote:
>
>> And why would you?  Why would you suffer the complexity and frustration of
>> Linux if Windoze is working just fine for you?
>
> Linux- not just for geeks anymore. Mepis distro, even computer illiterates
> can use it.
>
Given that this is about a contest about building a radio, in a newsgroup
devoted to the building of radios, I would expect a higher level of interest
in Linux.

But that said, at this point one could even distribute any needed software
along with an existing distribution.  Put it on a Live distribution,
and people treat the whole thing like an application.

  Michael  VE2BVW



From 2654110650594047226
X-Google-Thread: fc2a5,f8e977ca991bcbcd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!feed.news.qwest.net!mpls-
nntp-01.inet.qwest.net!news.qwest.net!not-for-mail
Date: Sun, 24 Sep 2006 14:29:23 -0700
From: PhattyMo <PhattyMo@nospam.gmail>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: What's in a "wall wart" so-called "transformer"?
References: <ef3ico$q5n@unix1.cc.ksu.edu>
In-Reply-To: <ef3ico$q5n@unix1.cc.ksu.edu>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 31
Message-ID: <4516f7b6$0$25777$815e3792@news.qwest.net>
Organization: Qwest Communications Corporation
NNTP-Posting-Host: 3ec9983c.news.qwest.net
X-Trace:
DXC=QoPhW8@QoW]IeBAO@:SX@[F85SKJoGf>T21RnJOcmTF_HfQ1a503Y0\F85SKJoGf>TEb_eKO]>MUX;
hSHlI^?niSeEeeSo@jkdR
X-Complaints-To: abuse@qwest.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:7068

mcalhoun@ksu.edu wrote:
> I have a collection of "wall wart" (others may call them "transformers")
> and I'd like to use one to cobble a little power supply.  I've never
> opened any to see what's really in them (and suspect it'll be quite a
> chore), but I'm quite sure they are not ALL "transformers", because some
> claim AC and some claim DC output, yet the first I grabbed out of the
```

> junkbox claimed DC AND ALSO provided a HEALTHY AC output on the same
> two wires! Furthermore, NONE of them seem to be voltage regulated!
> (But if one says "X volts at Y milliamps", then loading it to Y mils
> usually gives an output close to X volts.)
>
> So what IS in them? Do the really light-weight ones, for example,
> use a capacitor for relatively low-loss voltage dropping? And
> why would one give *BOTH* AC and DC? Bad diode(s)?
>

Uhh,why a Transformer,of course..
The ones with the DC output will have a rectifier diode or two (or maybe
even a FWB,if you're lucky) and usually a filter cap,but not always,IME.

The AC ones are usually just the transformer,and that's it.

Some "wall warts" I've come across were actually really tiny SMPS's,you
can usually identify these fairly easily,they're really light compared
to the "iron core transformer" type.. These may be regulated,the
iron-core types above almost never are.

AC and DC output?
Are you sure you're not measuring the ripple? They usually have very
poor filtering,plus after time the cap(s) dry out,and make it even worse.
Or,it could be the diode(s),they've been known to fail aswell.

From -5901594138925358766
X-Google-Thread: 108122,33ce63f8dc94b9b5
X-Google-Thread: fc2a5,33ce63f8dc94b9b5
X-Google-Thread: 10bf43,33ce63f8dc94b9b5
X-Google-Thread: 114aac,33ce63f8dc94b9b5
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,gid114aac,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews5.bellsouth.net.POSTED!35f0e4eb!not-for-mail
Reply-To: "Mr Fed UP" <mrfedup@bellsouth.net>
From: "Mr Fed UP" <mrfedup@bellsouth.net>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,re
c.radio.shortwave
References: <1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com>
<6eugg2lhifqpomku6q6dpeol34h76n88rs@4ax.com>
<12gjg5c7v745776@corp.supernews.com>   <D%lOg.16604$c07.4284@fed1read04>
<eecrj6$c5e$1@news2.kornet.net>
<1158291225.890645.27670@d34g2000cwd.googlegroups.com>
<450AC969.AEA1EE0C@earthlink.net>
<1158337419.720905.167230@p79g2000cwp.googlegroups.com>
<4515DA99.3A371D66@earthlink.net>   <qIyRg.28910$vX5.18302@bignews8.bellsouth.net>
<1159120297.806509.298230@m7g2000cwm.googlegroups.com>
Subject: Re: PayPal horror stories HEH! My 8 cents worth...

```
Lines: 29
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <_uERg.22598$eW5.8809@bignews5.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ldjgbllpbapjglppdbdpiflmbcekedmfhojhikkbagflhcbomhjplibaakfijbliabfkdgdcebgfjgjbkh
ebekjmpoifhlieenhcokpdiifknenhakckebbflldaemmkkadgfboolcfeigdlphdbpkpbdmpmlgfj
NNTP-Posting-Date: Sun, 24 Sep 2006 19:26:50 EDT
Organization: BellSouth Internet Group
Date: Sun, 24 Sep 2006 18:19:20 -0500
Xref: g2news2.google.com rec.radio.amateur.equipment:6432
rec.radio.amateur.homebrew:7069 rec.radio.amateur.policy:46243
rec.radio.shortwave:53859
```

"GG" <gerty-gravel@hotmail.com> wrote in message
news:1159120297.806509.298230@m7g2000cwm.googlegroups.com...

> You closed the bank account that the PP acount was baised on. That was
> not in good faith.
>
> GG

Nope... closed account ebray opened with that was used long ago.
Was active via Payless Pal till they made a mess of it all so I closed that account
so they couldn't rob me just for THEIR 8 cents MISTAKE.   Plus their withdraw
penalty, plus their late fees.   UGH!
Had they replied with an 8 cent request there was more than 8 cents in
my Payless pal account at the time.   Just as reasonable as the Gvnmt LOL

Just the same as auto deposit from anyplace... they have access to get what
ever they want and you have to litigate it to get your own money back.
Being on SS disab' I'd starve before I got my money back if any were taken.
I never trust them with my whole paycheck.... I wonder why anyone does.
Oh!.... That's so they can get in the news by being e-robbed. Phished etc.

Good luck Y'all

I also keep my Norton AV etc up to date and turned on ALLWAYS

```
From 2077145726303180796
X-Google-Thread: fc2a5,f8e977ca991bcbcd
X-Google-Attributes: gidfc2a5,public
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!newshub.sdsu.edu!
headwall.stanford.edu!newsfeed.ksu.edu!nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: What's in a "wall wart" so-called "transformer"?
Date: 24 Sep 2006 18:46:44 -0500
Organization: Kansas State University
Lines: 22
Message-ID: <ef75d4$kuj@unix1.cc.ksu.edu>
References: <ef3ico$q5n@unix1.cc.ksu.edu>
<4516f7b6$0$25777$815e3792@news.qwest.net>
NNTP-Posting-Host: unix1.cc.ksu.edu
X-Trace: cnn.cns.ksu.edu 1159141608 15832 129.130.12.3 (24 Sep 2006 23:46:48 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Sun, 24 Sep 2006 23:46:48 +0000 (UTC)
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7070

PhattyMo <PhattyMo@nospam.gmail> writes:

>mcalhoun@ksu.edu wrote:
>> I have a collection of "wall wart" ....

>....[snip]....
>AC and DC output?
>Are you sure you're not measuring the ripple?  They usually have very
>poor filtering,plus after time the cap(s) dry out,and make it even worse.
>Or,it could be the diode(s),they've been known to fail aswell.

Well, its "rating" is "9VDC 200MA",
but my Simpson 260 VOM gives it's output as 15V DC AND 15V AC.

I've NOT looked at the output with a 'scope (yet).

--Myron.
--
--Myron A. Calhoun.
Five boxes preserve our freedoms:  soap, ballot, witness, jury, and cartridge
NRA Life Member and Rifle, Pistol, & Home Firearm Safety Certified Instructor
Certified Instructor for the Kansas Concealed-Carry Handgun license


From 6552613505147787012
X-Google-Thread: fc2a5,1d49dc204402d73b,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-
mail
From: "radio.programming.owner@gmail.com" <radio.programming.owner@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Radios and freebies from radio_programming group
Date: 24 Sep 2006 17:16:08 -0700
```

```
Organization: http://groups.google.com
Lines: 18
Message-ID: <1159143368.848700.111890@b28g2000cwb.googlegroups.com>
NNTP-Posting-Host: 219.94.118.115
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159143372 31826 127.0.0.1 (25 Sep 2006 00:16:12 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 25 Sep 2006 00:16:12 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=219.94.118.115;
   posting-account=1-c9ag0AAAB7Jcj2orPahTftB3Gni-LC
Xref: g2news2.google.com rec.radio.amateur.homebrew:7071

To all radio enthusiasts and members of the group,
Hey guys and gals, you are all invited to join the "radio_programming"
group in yahoo groups. To subscribe, just sent an email to:
radio_programming-owner@yahoogroups.com

I'm the group moderator and as a reward, I'm giving away some freebies
here :)
http://groups.yahoo.com/group/radio_programming/files/
If what you are looking for is not in the list, don't hesitate to drop
us an email. We might be able to point you in the right direction to
get the latest software or programming utilities.

Also we have RADIOS FOR SALE ! We got radios from Kenwood (TK models),
Icom (IC models) and Motorola (HT & XTS APCO-25 models)
Contact us at radio.programming.owner@gmail.com for all your
programming needs and radio equipments!
Thank you for your time..



From 3218596861846892972
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.adelphia.com!news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 24 Sep 2006 19:20:50 -0500
From: Danny Richardson <n_group@k6mhe.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL "Homebrew Challenge"
Date: Sun, 24 Sep 2006 17:20:49 -0700
Message-ID: <dv7eh256tqpnlkbu09kh04hmj53pl31bbp@4ax.com>
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
<VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
<ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
```

```
<__kRg.8194$tT6.613@bignews7.bellsouth.net> <9MvRg.3318$R%1.2615@newsfe05.lga>
<kc6dh212cc3i4obbmgqu8ak9phvp58djc6@4ax.com>
<_1CRg.16699$tT6.2732@bignews7.bellsouth.net>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 82
NNTP-Posting-Host: 68.64.59.124
X-Trace: sv3-SVqGUFBfwPA/lKKgzXHcct6W6ow5rY8bxljpd2ZfwXNYLx8OT7q8OVnP8M0TMt/
g2y6diA8s1tmk6ua!UiK/bRlimOEHC74qdH69ZLLxalCZTfigU3wznYdyRfZM5fxcgBnmcmkQ5SyLjQUh/
h6NxlVAyIph!PNmWh5apX6fD98lQLvZf
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7072

On Sun, 24 Sep 2006 16:39:34 -0400, ken scharf
<wa2mzeNOSPAMBOTS@bellsouth.net> wrote:

>Danny Richardson wrote:
>> On Sun, 24 Sep 2006 09:26:24 -0400, "xpyttl"
>> <xpyttl_NOSPAM@earthling.net> wrote:
>>
>>> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
>>> news:__kRg.8194$tT6.613@bignews7.bellsouth.net...
>>>
>>>> The advantage of Linux is that the development tools are free, and Linux
>>>> will run on any computer that runs windows.
>>> Not entirely true.  Linux doesn't always have the hardware support,
>>> especially on newer boxes.
>>>
>>>>  You can also install Linux
>>>> on top of windows (on the same computer anyway) and dual boot, so you
>>>> can have your cake and eat it too (or have your poison and antidote too
>>>> in my opinion!).
>>> And why would you?  Why would you suffer the complexity and frustration of
>>> Linux if Windoze is working just fine for you?
>>>
>>> Personally, I fully enjoy having Linux servers an Windoze desktops on my
>>> home LAN, and with the magic of Cygwin, I can have Linux tools on my Windoze
>>> box, and seamless access to my Linux apps, withough fully suffering the
>>> clumsy Linux desktop.
>>>
>>> But that is just me.  Most folks want to use the applications, not the OS.
>>> Most hams aren't going to write programs, and the features of Linux will be
>>> lost on them, but the complexity sure won't.  For them, all they want is a
>>> little Digipan and email, why on earth would they subject themselves to yet
>>> another set of stuff to learn?  As far as i can tell, the only ham app on
>>> Linux that is better than what is available on Windoze is gEDA.  Everything
```

>>> else is harder to use and less capable.
>>>
>>> Now, I have a lot of ham apps on Linux that I have personally written.
>>> These provide me with functions that aren't easily available on Windoze, and
>>> the Linux environment makes it much easier. But I'm not most people. Not
>>> too many hams are comfortable writing their own applications, or even if
>>> they could, that isn't how they enjoy the hobby. For most people, including
>>> most hams, Windoze serves the purpose.
>>>
>>> Everyone has their own set of needs, and one size doesn't fit all. I
>>> suspect there may even be some people for whom the Mac is the best answer,
>>> although I can't imagine who they might be. But the getting in price for
>>> Linux is still pretty high in terms of learning curve, and for most hams,
>>> the return is close to zero. So why bother?
>>>
>>> ..
>> Excellent response. I too have a Linux system on my shack computer
>> dual-booting with Winders. I removed Linux from my main computer as
>> after several months of searching I could never find a decent driver
>> for my video card and wasn't about to buy another card when there was
>> nothing wrong with one I have except there aren't any Linux drivers
>> for it.
>>
>> Plus setting the sucker up is a PITA. Kind of a cross between DOS and
>> Window '98. Finding extensions, plugins, or what ever you may call
>> them is some what like a scavenger hunt and takes a LOT of time and
>> effort.
>>
>> If one takes the time and endures the learning curve the results are
>> often quite good. The system is very stable and works well.
>>
>> 73,
>> Danny, K6MHE
>Those of us that have gone through the trouble of getting there know
>the rewards of Linux. I agree, it's not something for everyone, but I
>would think that if you have the brains to get a ham ticket and build
>your own gear, you can figure it out. Also Ubuntu, Linspire (and
>Freespire) provide a brainless install that usually just works.

I really don't want to debate this but will add this comment: I did
not find that true with Ubuntu. Try playing videos or mp3s without
addding a bunch of stuff after the install. Its not a slam-dunk yet.

It really a choice thing and we don't all make the same choices. <G>

very 73,
Danny, K6MHE

[snip]

From 4560144898979506266
X-Google-Thread: fc2a5,15585760ed54fe7,start

X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-mail
From: KC2PIH@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Kenwood TS-940 Power Supply Voltage Regulation
Date: 24 Sep 2006 20:02:09 -0700
Organization: http://groups.google.com
Lines: 23
Message-ID: <1159153329.322897.293650@k70g2000cwa.googlegroups.com>
NNTP-Posting-Host: 67.87.96.228
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159153333 2835 127.0.0.1 (25 Sep 2006 03:02:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 25 Sep 2006 03:02:13 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=67.87.96.228;
   posting-account=6cyCSw0AAAB8yc2XGT8H-ArVe5lnAx7L
Xref: g2news2.google.com rec.radio.amateur.homebrew:7073

Hi,

My 940 was working good for while, but now the S-Meter lights and the VFO display have started to flicker. They flicker at random times very quickly (all at once). The LCD display bulbs don't flicker, but they have both burnt out now. And I just replaced them less than 2 years ago (with Kenwood factory replacements).

I checked the voltage to the power amp and it reads 28.6 volts. The S-Meter (lights) read 13.6 volts and when the flicker occurs the voltage very quickly varies from ~6 to 13 volts - never above 13.6 volts. Is this some kind of voltage regulation issue? I can't get it to do this by moving wires around and pushing on things. It does only seem to effect the lights the are controlled by the dimmer switch.

On a side note, I've been reading several posts about the 2N5885 that regulate the 28v supply for the power amp failing and wiping out the MRF-485 transistors that are no longer available. Does it make sense to preemptivly change the 2N5885 transistors to help prevent damage to those MRF-485? I use my 940 daily - and its on most of the day.

-Scott,WU2X

From -6077466632673397872
X-Google-Thread: 10bf43,7bd24d129f1f51ce
X-Google-Thread: fc2a5,9019c9e2274f6364

```
X-Google-Attributes: gid10bf43,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!feed20.multikabel.net!
multikabel.net!feed10.multikabel.net!hwmnpeer01.ams!news.highwinds-media.com!
feeder1.cambrium.nl!feed.tweaknews.nl!news2.euro.net!66.150.105.54.MISMATCH!
nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.com
Newsgroups: rec.radio.amateur.policy,rec.radio.amateur.homebrew
Subject: Re: Gee...What A Coincidence, Lennie...
Date: Mon, 25 Sep 2006 00:10:08 -0400
Message-ID: <37keh21upvfe5tblva043ploh1ojlabq0t@4ax.com>
References: <1158527339.352992.28170@i42g2000cwa.googlegroups.com>
<bhGPg.9337$v%4.106@newsread1.news.pas.earthlink.net>
<c3iug29tid5kod1f1olqktlvn5kkicgg7j@4ax.com>   <450FE04F.7060501@fuse.net>
<ia79h21f1uhjc1pd68ud3j86nbmlnemdvi@4ax.com>
<1158983174.967897.172510@m73g2000cwd.googlegroups.com>
<1159001395.681117.297240@d34g2000cwd.googlegroups.com>
<60c43$45153e23$4831cd39$31709@FUSE.NET>
<1159028905.204143.93480@k70g2000cwa.googlegroups.com> <4515C961.7050903@fuse.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 43
NNTP-Posting-Date: 25 Sep 2006 03:14:49 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:46322
rec.radio.amateur.homebrew:7074

On Sat, 23 Sep 2006 19:55:13 -0400, jawod <jawod@fuse.net> wrote:

>K4YZ wrote:
>> jawod wrote:
>>
>>>K4YZ wrote:
>>>
>>>>LenAnderson@ieee.org wrote:
>>
>>
>>>>>  BTW, this "Jawod" signed a message on rec.radio.amateur.homebrew
>>>>>  as "AB8O."  I found a blank on that call sign at QRZ.
>>>>
>>>>     What a coincidence...I used QRZ's database search engine and found
>>>>a blank when I entered "Leonard H. Anderson".
>>>>
>>>>     Funny, eh...?!?!
>>>
>>>I am not "Leonard H. Anderson"
>>
>>
>>     I know you're not.
>>
>>     I was jabbing Lennie in the ribs about supposedly not finding
>> someone (you?) under a certain call when HE'S not in there either.
>> Never has been.
>>
>>     Sorry for the confusion.
>>
>> Steve, K4YZ
>>
>I'm not in hiding.
>
>No worries.
>
>73,
>
>John
>AB8O
funny
http://www.qrz.com/detail/AB8O
does support your claim of licensure
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From 4135860599878571029
X-Google-Thread: fc2a5,15585760ed54fe7
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 25 Sep 2006 02:05:25 -0500
From: "g. beat" <@<spam protected>>
Newsgroups: rec.radio.amateur.homebrew
References: <1159153329.322897.293650@k70g2000cwa.googlegroups.com>
Subject: Re: Kenwood TS-940 Power Supply Voltage Regulation
Date: Mon, 25 Sep 2006 02:05:25 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <CqWdndBcYu4o4orYnZ2dnUVZ_sednZ2d@comcast.com>
Lines: 72
NNTP-Posting-Host: 67.176.141.93
X-Trace: sv3-
eaSXxFO6X26+ZA+G2zbEocAeKSx4C7JOEvCf5+QtZ3vCEQyiRhDWoYRidnXiuiqv1lnAwG7C0CjJs+W!
SlTiaimluIu8ulCcqhmhzIIri/Es0+qi3NDpmWD8IIH9u+NbfT/fxVA7vZZAYysx1r93d4G6kNYg!
sjr8EdmF5CK0MC/Mq1M=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
```

X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7075

<KC2PIH@gmail.com> wrote in message
news:1159153329.322897.293650@k70g2000cwa.googlegroups.com...

> Hi,
>
> My 940 was working good for while, but now the S-Meter lights and the
> VFO display have started to flicker. They flicker at random times very
> quickly (all at once). The LCD display bulbs don't flicker, but they
> have both burnt out now. And I just replaced them less than 2 years ago
> (with Kenwood factory replacements).
>
> I checked the voltage to the power amp and it reads 28.6 volts. The
> S-Meter (lights) read 13.6 volts and when the flicker occurs the
> voltage very quickly varies from ~6 to 13 volts - never above 13.6
> volts. Is this some kind of voltage regulation issue? I can't get it
> to do this by moving wires around and pushing on things. It does only
> seem to effect the lights the are controlled by the dimmer switch.
>
> On a side note, I've been reading several posts about the 2N5885 that
> regulate the 28v supply for the power amp failing and wiping out the
> MRF-485 transistors that are no longer available. Does it make sense to
> preemptivly change the 2N5885 transistors to help prevent damage to
> those MRF-485? I use my 940 daily - and its on most of the day.
>
> -Scott,WU2X
>

Scott,

May I suggest the TS-940 web page? Jeff King ZL4AI / DU7 (N5IW also has one)
One stop shopping for almost every issue, mod or change noted for the TS-940
The web page is so big -- it is in 2 parts!
http://homepages.ihug.co.nz/~jaking/TS-940_02.htm
http://www.jking.kol.co.nz/TS-940_02_part2.htm#_Toc146779962

The power supply, as you have noted, has been an issue for other operators.
http://www.jking.kol.co.nz/TS-940_02_part2.htm#_Toc146779932
===

Kenwood TS-940s AVR board, by N0XWR on February 28, 2006

You won't find an AVR board for sale new -- you should endeavor to fix the one you have.

First, check regulator Q103. it is in the rear left corner of the rig as the rig faces you. it is on the heatsink for the power supply. there are three regulators side by side. it is the one on the far left. no matter whether you replace it or it is good, it is imperative that you cut the connector off of the three wire harness that plugs on to regulator Q103 and solder directly to it. this harness comes from plug-in #2 on the AVR.

Over time the connector overheats and fails and cannot carry the 20-30 volts to and from that regulator. I have seen the problem many, many times. when the connection to that regulator fails, it takes out Q6 on the AVR board, so check it next.

Clif at AAvid Electronics, (now back in repair business at http://www.avvid.com) helped me get through the problem. also check D3, D9 and D14 which are zener diodes on the AVR board. they can be checked right on the board with a multimeter. the board can be removed easily. as you unplug the wiring harness use a sharpie and number each connector so that you can reinstall it easily. make a diagram, too. use small long nose forceps to unplug the connectors to the AVR board.

Incidentally, Q103 is part # NTE377 available at Mouser. Q6 is part # NTE382 also available at Mouser.

I have the part numbers for the zeners if you need them.

73s Jerry N0XWR

```
From -8949967771174653859
X-Google-Thread: fc2a5,9fb7b5f9b57b3816
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!newsgate.cistron.nl!
xs4all!amsnews11.chello.com!txtfeed2.tudelft.nl!tudelft.nl!binfeed2.tudelft.nl!
news1.tudelft.nl!not-for-mail
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 'Stripping' Enamel Wire.
From: SamSvL <samsvl@nlr.nl>
References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
Organization: NLR
Message-ID: <Xns98497D02C3DCAsamsvlnlrnl@192.87.166.15>
User-Agent: Xnews/5.04.25
X-Complaints-To: sysadmin@dto.tudelft.nl
Date: Mon, 25 Sep 2006 12:17:20 +0200
Lines: 28
NNTP-Posting-Host: pcvo050a.nlr.nl (137.17.136.22)
NNTP-Posting-Date: Mon, 25 Sep 2006 12:17:20 +0200
X-Trace: 879f74517acb02cb42db303833
Xref: g2news2.google.com rec.radio.amateur.homebrew:7076
```

Jim Flanagan <jflan@tampabay.rr.com> wrote in news:yK9Qg.1384$K02.6@tornado.tampabay.rr.com:

> Guys..
>   Does anyone have any better method for stripping small, enameled

```
> wire, other than using sandpaper or an exacto knife (scrapping)?
> There used to be a chemical stripper called 'Xvar', years ago.
> This stuff worked great.  Nasty stuff as you can imagine and has
> been EPA'd years ago.  Is there anything comparable, today?
>
> Also, a retired technician that I once knew had a pair of ingenious
> 'stripper pliers' that he had acquired back in the '60s that did
> a fabulous job.  These pliers had special jaws that would scrape the
> enamel off without nicking the wire.  They worked GREAT.  Supposedly,
> this tool originated from a mfg in Germany.  I have never seen this
tool
> since.  Anyone have a lead on something similar?
>
> Thanks and take care.
> -jim
> WB5KYE

I have had good results with formic acid.

Cheers,

Sam




From 511537194790789735
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!feeder.news-
service.com!tudelft.nl!txtfeed1.tudelft.nl!feed.xsnews.nl!feeder.xsnews.nl!
newsrouter-eu.astraweb.com!news.astraweb.com!router1.astraweb.com!sn-xt-sjc-04!sn-
xt-sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL "Homebrew Challenge"
Date: Mon, 25 Sep 2006 10:08:19 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12hg3848dbaav69@corp.supernews.com>
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
<VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
<ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
<__kRg.8194$tT6.613@bignews7.bellsouth.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 21
Xref: g2news2.google.com rec.radio.amateur.homebrew:7077

"ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
```

news:__kRg.8194$tT6.613@bignews7.bellsouth.net...

> The advantage of Linux is that the development tools are free

Not true. A fairer statement would probably be something like "there are significantly more free development tools for Linux than there are for Windows." On Windows, the "express" editions of the Microsoft compilers are free, older Borland tools are free, GCC is free, etc. On Linux, there are plenty of commercial development suite, which in many cases are well worth the money.

> and Linux
> will run on any computer that runs windows.

Also not true. Especially with laptops, drivers for Linux are often non-existent. In fact, where I start thinking, "hmm... I should do something with Linux..." the *first* thing I have to consider is whether or not I have a PC around that'll have its hardware fully supported.

```
From -4728847806349108360
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!
newshosting.com!198.186.190.247.MISMATCH!news-out.readnews.com!news-
xxxfer.readnews.com!panix!panix3.panix.com!asd
From: Straydog <asd@panix.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL "Homebrew Challenge"
Date: Mon, 25 Sep 2006 14:16:25 -0400
Organization: PANIX Public Access Internet and UNIX, NYC
Lines: 80
Message-ID: <Pine.NEB.4.64.0609251354160.7978@panix3.panix.com>
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
 <VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
<ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
 <__kRg.8194$tT6.613@bignews7.bellsouth.net> <12hg3848dbaav69@corp.supernews.com>
NNTP-Posting-Host: panix3.panix.com
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed
X-Trace: reader2.panix.com 1159208186 12390 166.84.1.3 (25 Sep 2006 18:16:26 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Mon, 25 Sep 2006 18:16:26 +0000 (UTC)
In-Reply-To: <12hg3848dbaav69@corp.supernews.com>
Xref: g2news2.google.com rec.radio.amateur.homebrew:7078
```

On Mon, 25 Sep 2006, Joel Kolstad wrote:

> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
> news:__kRg.8194$tT6.613@bignews7.bellsouth.net...
>> The advantage of Linux is that the development tools are free
>
> Not true. A fairer statement would probably be something like "there are
> significantly more free development tools for Linux than there are for
> Windows." On Windows, the "express" editions of the Microsoft compilers are
> free, older Borland tools are free, GCC is free, etc. On Linux, there are
> plenty of commercial development suite, which in many cases are well worth the
> money.

I'm not that aware of how many (and how good) developement tools are there
for Linux but...see bellow...

>> and Linux
>> will run on any computer that runs windows.
>
> Also not true. Especially with laptops, drivers for Linux are often
> non-existent. In fact, where I start thinking, "hmm... I should do something
> with Linux..." the *first* thing I have to consider is whether or not I have a
> PC around that'll have its hardware fully supported.

My little story....

I have been told that there are laptops out there, with Windows
pre-installed, that will not even run DOS or Win3.1 any more.

Laptop support for anything other than what software the laptop was
designed for is a major problem.

I have had vastly more success intalling the earlier versions of Linux on
"any" PC laying around. Just like Windoze, Linux has also tightened up its
hardware compatibility requirements and particularly in the driver
category.

I've had, and installed, from Red Hat 4.2 to 5.2, 6.2, 7.3 (problems with
7.4, very buggy GUIs in 7.1,7.2), and mostly failure with one of the
Workstation (Taroon, version 3.0) versions (based on the 3.5 inch
boot disk with included CD-ROM driver portfolio was changed from a small
number of prior CD-ROM drivers to new RAIDs, etc, and the new drivers
don't recognize anything older than about 4-5 years, now). And, I was
profoundly disappointed. Also, that same Linux (Taroon) required 256 MB of
ram to run. It would boot with less (32 mb), but barely get the GUI up.
Anything beyond that would run into the swap partition and be slow as
hell. Actually both 6.2 and 7.3 (which installed sucessfully less often
than 6.2 or 5.2) are pretty good (eg. drag and drop file manager, gFTP,
automount-dismount drives, etc). StarOffice 5.1 & 5.2 installed well on
5.2 and 6.2. The problems with 7.3 and prior were the buggy web browsers
or they would crash on moderate to advanced websites.

I never set up the firewalls, IP chains, or whatever, and some months
after I was running it on the intenet, I got hacked (I actually witnessed

it as it was happening: hard drive started cranking like mad, and lots of bytes were being downloaded (as could be seen on the download bytes/sec rate meter and graph). By the time I could get to the phone line to disconnect, the bugger downloaded a rootkit somewhere and every time I booted it up, I could see a package of outgoing data (red bars) leave my box (and without confirming green bars) to some unknown point on the internet. At a later point, I nuked the HD and re-installed.

As an aside, I still run DOS & Win3.1 for a lot of internet aps. At one time, www.securityspace.com ran free vulnerability tests with hack attacks (I think www.grc.com does too) and could not hack my Win3.1 with Netscape 2.01 dialer (probably because it has no ports for anything but email, ng, ftp, and http protocols), but it could hack my Linux and Win98SE boxes (without ZoneAlarm). Most of the time I access my shell account with a DOS terminal program (dialup terminal mode, not ppp). I think my home box is pretty safe that way (not much is going to cross from Unix to DOS, and I don't keep any vital info in files/folders on my shell directory.

>
>
>

From -4877514120064535434
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!
trndny05.POSTED!3e34f8a9!not-for-mail
From: Leroy <nota.ham@never.will.be>
Organization: Radio Free America
Subject: Re: ARRL "Homebrew Challenge"
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2006.09.25.18.28.52.539111@never.will.be>
Newsgroups: rec.radio.amateur.homebrew
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
<VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
<ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
<__kRg.8194$tT6.613@bignews7.bellsouth.net> <9MvRg.3318$R%1.2615@newsfe05.lga>
<kc6dh212cc3i4obbmgqu8ak9phvp58djc6@4ax.com>
<_1CRg.16699$tT6.2732@bignews7.bellsouth.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 10
Date: Mon, 25 Sep 2006 18:28:57 GMT
NNTP-Posting-Host: 70.19.134.210
X-Complaints-To: abuse@verizon.net

X-Trace: trndny05 1159208937 70.19.134.210 (Mon, 25 Sep 2006 14:28:57 EDT)
NNTP-Posting-Date: Mon, 25 Sep 2006 14:28:57 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7079

On Sun, 24 Sep 2006 16:39:34 -0400, ken scharf wrote:

> About the only thing I find lacking is Macromedia Flash support for Linux,
> though there is a GNU project to provide it (gnash).

Flash working fine here on Mepis 3.4-3.

Even runs my LinkSys WPC54G wireless card when other distros wouldn't.

From 7096958139661959304
X-Google-Thread: 108122,33ce63f8dc94b9b5
X-Google-Thread: fc2a5,33ce63f8dc94b9b5
X-Google-Thread: 10bf43,33ce63f8dc94b9b5
X-Google-Thread: 114aac,33ce63f8dc94b9b5
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,gid114aac,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!feeder.news-service.com!
138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-05!sn-ams!sn-feed-ams-01!sn-post-
ams-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,re
c.radio.shortwave
Subject: Re: PayPal horror stories
Date: Mon, 25 Sep 2006 13:39:05 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12hgfjb7ql3v3a3@corp.supernews.com>
References: <1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com>
<6eugg2lhifqpomku6q6dpeol34h76n88rs@4ax.com>
<12gjg5c7v745776@corp.supernews.com>   <D%lOg.16604$c07.4284@fed1read04>
<eecrj6$c5e$1@news2.kornet.net>
<1158291225.890645.27670@d34g2000cwd.googlegroups.com>
<450AC969.AEA1EE0C@earthlink.net> <12glldnl1mdsn5c@corp.supernews.com>
<4515DE32.CC9A7A8@earthlink.net>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 18
Xref: g2news2.google.com rec.radio.amateur.equipment:6451
rec.radio.amateur.homebrew:7080 rec.radio.amateur.policy:46444
rec.radio.shortwave:53912

Hi Michael,

"Michael A. Terrell" <mike.terrell@earthlink.net> wrote in message
news:4515DE32.CC9A7A8@earthlink.net...

>   BTW, I was given another Compaq like yours with the VGA connector
> sheared off the motherboard. It works with a replacement AGP card, but
> you know me. I'm going to replace the connector so I can see if the
> onboard video is still ok. ;-)

Wow... someone probably just reefed on a video cable that was still screwed
into the connector and ripped it off?

I would wager that you'll find it will work just fine if you can successfully
re-attach a connector (and repair any damaged traces!)

---Joel

From 6690737730883258O1
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 25 Sep 2006 15:55:44 -0500
Date: Mon, 25 Sep 2006 21:56:18 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/
20060910 SeaMonkey/1.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL "Homebrew Challenge"
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
<VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
<ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
<__kRg.8194$tT6.613@bignews7.bellsouth.net> <9MvRg.3318$R%1.2615@newsfe05.lga>
<kc6dh212cc3i4obbmgqu8ak9phvp58djc6@4ax.com>
<_1CRg.16699$tT6.2732@bignews7.bellsouth.net>
<pan.2006.09.25.18.28.52.539111@never.will.be>
In-Reply-To: <pan.2006.09.25.18.28.52.539111@never.will.be>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <jaCdnRvz0IfN34XYRVnyug@pipex.net>
Lines: 15
NNTP-Posting-Host: 81.178.254.145
X-Trace: sv3-
TkVDYaMua8JWnRsKylogh1sMlJjokM8BU9Zq2KlKPmT1107ecan7WNU+ALdujhYYWPovOyP6PrlR69a!
B9cm1GFtSM8MxlIeGl+K1e/T/XxVhFJmYqUvvtI6q4Sg5gKMs8FnsQZsVFbnhEPiCPawRYHKN60A!
Y58QHeufgcyUkA==
X-Complaints-To: abuse@dsl.pipex.net

```
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7081

>> About the only thing I find lacking is Macromedia Flash support for Linux,
>> though there is a GNU project to provide it (gnash).
>
> Flash working fine here on Mepis 3.4-3.
>
> Even runs my LinkSys WPC54G wireless card when other distros wouldn't.
===================================
Question : Do you run 'Simply Mepis' from a live CD or have you
installed that distro on your HD ?

'Simply Mepis' upgrades come hard and fast ; last month the Linux Format
magazine's  DVD carried version 6.0

Frank     GM0CSZ  /  KN6WH




From 2606168280215734618
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!fu-berlin.de!uni-berlin.de!
individual.net!not-for-mail
From: Allodoxaphobia <bit-bucket@config.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL "Homebrew Challenge"
Date: 25 Sep 2006 21:27:39 GMT
Lines: 37
Message-ID: <slrnehgieb.23c7.bit-bucket@shell.config.com>
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
<VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
<ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
<__kRg.8194$tT6.613@bignews7.bellsouth.net> <9MvRg.3318$R%1.2615@newsfe05.lga>
<kc6dh212cc3i4obbmgqu8ak9phvp58djc6@4ax.com>
<_1CRg.16699$tT6.2732@bignews7.bellsouth.net>
<pan.2006.09.25.18.28.52.539111@never.will.be> <jaCdnRvz0IfN34XYRVnyug@pipex.net>
Reply-To: Reply to the .sig address <NOSPAM_bit-bucket@config.com>
X-Trace: individual.net JV/dzQKcl4iVHedWt5TnWgpBe8ke+pxW6eaHkVkx20aDZiByFA
User-Agent: slrn/0.9.8.1 (FreeBSD)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7082

On Mon, 25 Sep 2006 21:56:18 +0100, Highland Ham wrote:
>>> About the only thing I find lacking is Macromedia Flash support for Linux,
>>> though there is a GNU project to provide it (gnash).
>>
>> Flash working fine here on Mepis 3.4-3.
```

>>
>> Even runs my LinkSys WPC54G wireless card when other distros wouldn't.
>==================================
> Question : Do you run 'Simply Mepis' from a live CD or have you
> installed that distro on your HD ?
>
> 'Simply Mepis' upgrades come hard and fast ; last month the Linux Format
> magazine's DVD carried version 6.0

They shouldn't be coming "hard and fast" from here on out. Mepis is now
Debian-based and will follow that distro's roll-out schedule(s). There
can be/will be security updates -- which I believe is A Real Good Thing.
The updates are done with ease.

But new, full releases will appear less often. 'Tis said, as well, that
Mepis release's will each now come with "Long Term Support". Dunno what
that means in actuality, but I've gotten damn tired of Mandrake
deprecating my installations each time I finally get them fully fleshed
out, fine tuned, and stable. Then it is upheaval all over again.

I will be moving off the Mandrake ("Mandriva" - yeech!) distro (MDK 10.2
on my primary box), and I have recently installed Mepis 6.0 on my
'down-level' box (was MDK 9.1). Mepis 6.0 installed as slick as you'd
ever want an install to go.

Recommended.

Jonesy -- Mikro$oft free since 1991
```
--
  Marvin L Jones    | jonz          | W3DHJ  | linux
   38.24N  104.55W  |  @ config.com | Jonesy |  OS/2
    *** Killfiling google posts: <http//jonz.net/ng.htm>
```

From -4971232219495800639
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews1.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL "Homebrew Challenge"
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
<VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
<ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
<__kRg.8194$tT6.613@bignews7.bellsouth.net> <9MvRg.3318$R%1.2615@newsfe05.lga>
<kc6dh212cc3i4obbmgqu8ak9phvp58djc6@4ax.com>
<_1CRg.16699$tT6.2732@bignews7.bellsouth.net>

```
<pan.2006.09.25.18.28.52.539111@never.will.be>
In-Reply-To: <pan.2006.09.25.18.28.52.539111@never.will.be>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 13
Message-ID: <YBZRg.9486$zF5.7514@bignews1.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
pcpocbcnbdmdhgfgdbdpiflmbcekedmfhojhikkbagflhcbomkaaafnfeiccnfocgphaoggkkghhjdkkph
cflcglhokhfpiihlkanmpdfhgbpcbgnmoebahngadmnepdblghannnglllljcjanahpbbhdpjpghcno
NNTP-Posting-Date: Mon, 25 Sep 2006 19:27:52 EDT
Organization: BellSouth Internet Group
Date: Mon, 25 Sep 2006 19:28:05 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:7083

Leroy wrote:
> On Sun, 24 Sep 2006 16:39:34 -0400, ken scharf wrote:
>
>
>> About the only thing I find lacking is Macromedia Flash support for Linux,
>> though there is a GNU project to provide it (gnash).
>
> Flash working fine here on Mepis 3.4-3.
>
> Even runs my LinkSys WPC54G wireless card when other distros wouldn't.
>
There are TWO different flash plugins.  Macromedia is NOT supported
under linux.  There is another pluging also called flash that is.


From 3646494628021285152
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews1.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL "Homebrew Challenge"
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
<VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
<ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
<__kRg.8194$tT6.613@bignews7.bellsouth.net> <9MvRg.3318$R%1.2615@newsfe05.lga>
<kc6dh212cc3i4obbmgqu8ak9phvp58djc6@4ax.com>
<_1CRg.16699$tT6.2732@bignews7.bellsouth.net>
<dv7eh256tqpnlkbu09kh04hmj53pl31bbp@4ax.com>
In-Reply-To: <dv7eh256tqpnlkbu09kh04hmj53pl31bbp@4ax.com>
```

```
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 90
Message-ID: <eEZRg.9494$zF5.718@bignews1.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
pcpocbcnbdmdhgfgdbdpiflmbcekedmfhojhikkbagflhcboobedemlkcjhocbgkanckofoapabilinaph
cflcglhokhfpiihlkanmpdfhgbpcbgnmoebahngadmnepdidgmonjgnhojgnglfbboiekkjimoihmj
NNTP-Posting-Date: Mon, 25 Sep 2006 19:30:18 EDT
Organization: BellSouth Internet Group
Date: Mon, 25 Sep 2006 19:30:30 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:7084

Danny Richardson wrote:
> On Sun, 24 Sep 2006 16:39:34 -0400, ken scharf
> <wa2mzeNOSPAMBOTS@bellsouth.net> wrote:
>
>> Danny Richardson wrote:
>>> On Sun, 24 Sep 2006 09:26:24 -0400, "xpyttl"
>>> <xpyttl_NOSPAM@earthling.net> wrote:
>>>
>>>> "ken scharf" <wa2mzeNOSPAMBOTS@bellsouth.net> wrote in message
>>>> news:__kRg.8194$tT6.613@bignews7.bellsouth.net...
>>>>
>>>>> The advantage of Linux is that the development tools are free, and Linux
>>>>> will run on any computer that runs windows.
>>>> Not entirely true.  Linux doesn't always have the hardware support,
>>>> especially on newer boxes.
>>>>
>>>>>  You can also install Linux
>>>>> on top of windows (on the same computer anyway) and dual boot, so you
>>>>> can have your cake and eat it too (or have your poison and antidote too
>>>>> in my opinion!).
>>>> And why would you?  Why would you suffer the complexity and frustration of
>>>> Linux if Windoze is working just fine for you?
>>>>
>>>> Personally, I fully enjoy having Linux servers an Windoze desktops on my
>>>> home LAN, and with the magic of Cygwin, I can have Linux tools on my Windoze
>>>> box, and seamless access to my Linux apps, withough fully suffering the
>>>> clumsy Linux desktop.
>>>>
>>>> But that is just me.  Most folks want to use the applications, not the OS.
>>>> Most hams aren't going to write programs, and the features of Linux will be
>>>> lost on them, but the complexity sure won't.  For them, all they want is a
>>>> little Digipan and email, why on earth would they subject themselves to yet
>>>> another set of stuff to learn?  As far as i can tell, the only ham app on
>>>> Linux that is better than what is available on Windoze is gEDA.  Everything
>>>> else is harder to use and less capable.
>>>>
>>>> Now, I have a lot of ham apps on Linux that I have personally written.
>>>> These provide me with functions that aren't easily available on Windoze, and
```

>>>> the Linux environment makes it much easier. But I'm not most people. Not
>>>> too many hams are comfortable writing their own applications, or even if
>>>> they could, that isn't how they enjoy the hobby. For most people, including
>>>> most hams, Windoze serves the purpose.
>>>>
>>>> Everyone has their own set of needs, and one size doesn't fit all. I
>>>> suspect there may even be some people for whom the Mac is the best answer,
>>>> although I can't imagine who they might be. But the getting in price for
>>>> Linux is still pretty high in terms of learning curve, and for most hams,
>>>> the return is close to zero. So why bother?
>>>>
>>>> ..
>>> Excellent response. I too have a Linux system on my shack computer
>>> dual-booting with Winders. I removed Linux from my main computer as
>>> after several months of searching I could never find a decent driver
>>> for my video card and wasn't about to buy another card when there was
>>> nothing wrong with one I have except there aren't any Linux drivers
>>> for it.
>>>
>>> Plus setting the sucker up is a PITA. Kind of a cross between DOS and
>>> Window '98. Finding extensions, plugins, or what ever you may call
>>> them is some what like a scavenger hunt and takes a LOT of time and
>>> effort.
>>>
>>> If one takes the time and endures the learning curve the results are
>>> often quite good. The system is very stable and works well.
>>>
>>> 73,
>>> Danny, K6MHE
>> Those of us that have gone through the trouble of getting there know
>> the rewards of Linux. I agree, it's not something for everyone, but I
>> would think that if you have the brains to get a ham ticket and build
>> your own gear, you can figure it out. Also Ubuntu, Linspire (and
>> Freespire) provide a brainless install that usually just works.
>
> I really don't want to debate this but will add this comment: I did
> not find that true with Ubuntu. Try playing videos or mp3s without
> addding a bunch of stuff after the install. Its not a slam-dunk yet.
>
Ubuntu tries to be a totally free (as in freedom) distro so they don't
distribute closed source drivers and plugins by default. As you noticed
it's possible but requires user intervention. There are scripts
available to do this for your with one click.

> It really a choice thing and we don't all make the same choices. <G>
>
> very 73,
> Danny, K6MHE
>
> [snip]

Yes! choice is good!

```
From 217624887403649139
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
130.81.64.211.MISMATCH!cycny01.gnilink.net!spamkiller2.gnilink.net!gnilink.net!
trndny04.POSTED!3e34f8a9!not-for-mail
From: Leroy <nota.ham@never.will.be>
Organization: Radio Free America
Subject: Re: ARRL "Homebrew Challenge"
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2006.09.25.23.34.44.342656@never.will.be>
Newsgroups: rec.radio.amateur.homebrew
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
<VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
<ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
<__kRg.8194$tT6.613@bignews7.bellsouth.net> <9MvRg.3318$R%1.2615@newsfe05.lga>
<kc6dh212cc3i4obbmgqu8ak9phvp58djc6@4ax.com>
<_1CRg.16699$tT6.2732@bignews7.bellsouth.net>
<pan.2006.09.25.18.28.52.539111@never.will.be> <jaCdnRvz0IfN34XYRVnyug@pipex.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 36
Date: Mon, 25 Sep 2006 23:34:50 GMT
NNTP-Posting-Host: 70.19.134.210
X-Complaints-To: abuse@verizon.net
X-Trace: trndny04 1159227290 70.19.134.210 (Mon, 25 Sep 2006 19:34:50 EDT)
NNTP-Posting-Date: Mon, 25 Sep 2006 19:34:50 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7085

On Mon, 25 Sep 2006 21:56:18 +0100, Highland Ham wrote:

>>> About the only thing I find lacking is Macromedia Flash support for
>>> Linux, though there is a GNU project to provide it (gnash).
>>
>> Flash working fine here on Mepis 3.4-3.
>>
>> Even runs my LinkSys WPC54G wireless card when other distros wouldn't.
> ===================================
> Question : Do you run 'Simply Mepis' from a live CD or have you installed
> that distro on your HD ?
>
> 'Simply Mepis' upgrades come hard and fast ; last month the Linux Format
> magazine's  DVD carried version 6.0

I originally ran it from a Live CD to test it. It found and set up all of
my hardware without any messing about or configuring on my part. After a
few days I wiped out Mandrake and installed it to the HD.

The only thing I really miss is Midnite Commander...and a partition that
```

got munged when I disregarded previous experience and was bopping back and forth between Partition Magic and QTParted. I could re-write the partion table by hand with a hex editor but it's tedious work and I'm not sure that what's gone is worth the effort.

This machine is set up to dual-boot with Win 98, but the only reason I keep it is for one business app that manages my inventory and invoicing. I'm used to the way it works and too lazy to port it over or try to convert it to something else.

I have the Mepis 6.0 Live distro but this is working fine. It ain't broke, so I'm not going to "fix" it. But if I decide to build a new laptop with one of those nice 17" screens and a dual-core AMD CPU, that is most likely what will go on it.

From -4312620480205305O8
X-Google-Thread: fc8b1,f90553647c160dd2,start
X-Google-Thread: fc2a5,f90553647c160dd2,start
X-Google-Thread: 10bf43,f90553647c160dd2,start
X-Google-Thread: 1109af,f90553647c160dd2,start
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Proposal 1 (US Hams)
From: Slow Code <my.mail@no.spam>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 3
Message-ID: <f3_Rg.1386$Y24.662@newsread4.news.pas.earthlink.net>
Date: Mon, 25 Sep 2006 23:59:07 GMT
NNTP-Posting-Host: 4.254.229.50
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1159228747 4.254.229.50 (Mon, 25 Sep
2006 16:59:07 PDT)
NNTP-Posting-Date: Mon, 25 Sep 2006 16:59:07 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5532
rec.radio.amateur.homebrew:7086 rec.radio.amateur.policy:46468 rec.radio.swap:7796

No more automatic renewals. Individuals must retest and pass all elements required for their license class.

From -2590074543983193151
X-Google-Thread: fc8b1,7d03aed3519edcb9,start

X-Google-Thread: fc2a5,7d03aed3519edcb9,start
X-Google-Thread: 10bf43,7d03aed3519edcb9,start
X-Google-Thread: 1109af,7d03aed3519edcb9,start
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Proposal 2 (US Hams)
From: Slow Code <my.mail@no.spam>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 1
Message-ID: <p3_Rg.1387$Y24.220@newsread4.news.pas.earthlink.net>
Date: Mon, 25 Sep 2006 23:59:17 GMT
NNTP-Posting-Host: 4.254.229.50
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1159228757 4.254.229.50 (Mon, 25 Sep 2006 16:59:17 PDT)
NNTP-Posting-Date: Mon, 25 Sep 2006 16:59:17 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5533 rec.radio.amateur.homebrew:7087 rec.radio.amateur.policy:46469 rec.radio.swap:7797

The passing score for written exams needs to be raised to 85%.

From 8334284551337278616
X-Google-Thread: fc8b1,9ce81ede627419b1,start
X-Google-Thread: fc2a5,9ce81ede627419b1,start
X-Google-Thread: 10bf43,9ce81ede627419b1,start
X-Google-Thread: 1109af,9ce81ede627419b1,start
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Proposal 3 (US Hams)
From: Slow Code <my.mail@no.spam>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 2
Message-ID: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>
Date: Mon, 25 Sep 2006 23:59:26 GMT
NNTP-Posting-Host: 4.254.229.50
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1159228766 4.254.229.50 (Mon, 25 Sep 2006 16:59:26 PDT)

```
NNTP-Posting-Date: Mon, 25 Sep 2006 16:59:26 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5534
rec.radio.amateur.homebrew:7088 rec.radio.amateur.policy:46470 rec.radio.swap:7798
```

Code elements should be 13 wpm for General, and 20 wpm for Extra.

```
From -2655617401970614986
X-Google-Thread: fc8b1,1759b8b6e47fdfb5,start
X-Google-Thread: fc2a5,1759b8b6e47fdfb5,start
X-Google-Thread: 10bf43,1759b8b6e47fdfb5,start
X-Google-Thread: 1109af,1759b8b6e47fdfb5,start
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Proposal 4 (US Hams)
From: Slow Code <my.mail@no.spam>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 2
Message-ID: <I3_Rg.1389$Y24.641@newsread4.news.pas.earthlink.net>
Date: Mon, 25 Sep 2006 23:59:36 GMT
NNTP-Posting-Host: 4.254.229.50
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1159228776 4.254.229.50 (Mon, 25 Sep
2006 16:59:36 PDT)
NNTP-Posting-Date: Mon, 25 Sep 2006 16:59:36 PDT
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5535
rec.radio.amateur.homebrew:7089 rec.radio.amateur.policy:46471 rec.radio.swap:7799
```

Make the no-code license one year non-renewable.

```
From -6637506358769289674
X-Google-Thread: fc8b1,f90553647c160dd2
X-Google-Thread: fc2a5,f90553647c160dd2
X-Google-Thread: 10bf43,f90553647c160dd2
X-Google-Thread: 1109af,f90553647c160dd2
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news2.volia.net!news.germany.com!
newsfeed.freenet.de!border2.nntp.ams.giganews.com!nntp.giganews.com!sn-xt-ams-06!
sn-xt-ams-10!sn-xt-ams-03!sn-post-ams-01!sn-post-sjc-02!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups:
```

```
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Proposal 1 (US Hams)
Date: Mon, 25 Sep 2006 17:13:07 -0700
Organization: EZNEC Antenna Software
Message-ID: <12hgs4mjd8nk19c@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <f3_Rg.1386$Y24.662@newsread4.news.pas.earthlink.net>
In-Reply-To: <f3_Rg.1386$Y24.662@newsread4.news.pas.earthlink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 14
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5536
rec.radio.amateur.homebrew:7090 rec.radio.amateur.policy:46475 rec.radio.swap:7801

I and other readers of rec.radio.amateur.antenna would really appreciate
it if you'd leave that newsgroup off the lengthy list you post this sort
of thing to.

If you're not willing to do that, perhaps some of the people who feel
compelled to respond would be thoughtful enough to remove that newsgroup
from the list receiving the responses.

Roy Lewallen, W7EL

Slow Code wrote:
> No more automatic renewals. Individuals must retest and pass all elements
> required for their license class.
>


From 212753138546480811
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.gwi.net!news.gwi.net.POSTED!
not-for-mail
NNTP-Posting-Date: Mon, 25 Sep 2006 19:36:57 -0500
From: "gkb" <gkbrown@gwi.net>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>
Subject: Re: Proposal 3 (US Hams)
Date: Mon, 25 Sep 2006 20:41:53 -0400
X-Priority: 3
X-MSMail-Priority: Normal
```

```
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Message-ID: <d-adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net>
Lines: 11
NNTP-Posting-Host: 216.195.150.90
X-Trace: sv3-JInukLU4sKl7AaDkunN6rD/
zVd01P0ITNDeWC0NJDcGzvmUJeGCrqc4QcKmSYzv+1898oOt6qWxTNjg!
aX9HMHQTvjb+C1bEp1BwcM4zK7GoDO5lQ+4GSgyo9zjaFbr8Pl4CPoyTg3Qts7bC7yjSQ63NBYXW!7XY=
X-Complaints-To: abuse@gwi.net
X-DMCA-Complaints-To: abuse@gwi.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5538
rec.radio.amateur.homebrew:7091 rec.radio.amateur.policy:46476 rec.radio.swap:7803

10 wpm novice, 20 wpm general and 35 wpm for extra class.

--
Regards,
Gary...WZ1M
"Slow Code" <my.mail@no.spam> wrote in message
news:y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net...
> Code elements should be 13 wpm for General, and 20 wpm for Extra.
>




From 2916109828694594242
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news1.google.com!news.maxwell.syr.edu!
panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: Re: Proposal 3 (US Hams)
Date: 25 Sep 2006 21:13:47 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 18
Message-ID: <ef9usb$ore$1@panix2.panix.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <d-
adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1159233228 6015 166.84.1.2 (26 Sep 2006 01:13:48 GMT)
X-Complaints-To: abuse@panix.com
```

```
NNTP-Posting-Date: Tue, 26 Sep 2006 01:13:48 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5539
rec.radio.amateur.homebrew:7092 rec.radio.amateur.policy:46482 rec.radio.swap:7804

gkb <gkbrown@gwi.net> wrote:
>10 wpm novice, 20 wpm general and 35 wpm for extra class.

Well, this doesn't seem very relevant for folks here in
rec.radio.amateur.boatanchors.  We think the requirements
should include being able to bench press a Collins R-390
and being tested on changing coupling capacitors with the
B+ live.

Other folks may consider other tests, for example testing
someone for the ability to hold down the key for ten minutes
straight while shouting "This is my channel, you don't own
this frequency" over and over again.  This is a skill that
is becoming increasingly popular.
--scott

--
"C'est un Nagra.  C'est suisse, et tres, tres precis."


From -1655453049549060438
X-Google-Thread: fc8b1,7d03aed3519edcb9
X-Google-Thread: fc2a5,7d03aed3519edcb9
X-Google-Thread: 10bf43,7d03aed3519edcb9
X-Google-Thread: 1109af,7d03aed3519edcb9
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-
mail
From: "an_old_friend" <konstans@hotmail.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: blow code blows it again
Date: 25 Sep 2006 18:34:18 -0700
Organization: http://groups.google.com
Lines: 5
Message-ID: <1159234458.361742.173830@h48g2000cwc.googlegroups.com>
References: <p3_Rg.1387$Y24.220@newsread4.news.pas.earthlink.net>
NNTP-Posting-Host: 69.19.14.23
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159234462 2842 127.0.0.1 (26 Sep 2006 01:34:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Sep 2006 01:34:22 +0000 (UTC)
In-Reply-To: <p3_Rg.1387$Y24.220@newsread4.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
```

```
Complaints-To: groups-abuse@google.com
Injection-Info: h48g2000cwc.googlegroups.com; posting-host=69.19.14.23;
   posting-account=5Yl6pg0AAADpwOMWiAfWEILF9IbswBYm
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5540
rec.radio.amateur.homebrew:7093 rec.radio.amateur.policy:46491 rec.radio.swap:7806
```

Slow Code wrote:
>

blow code blows it again

```
From -2664830475719794539
X-Google-Thread: fc8b1,1759b8b6e47fdfb5
X-Google-Thread: fc2a5,1759b8b6e47fdfb5
X-Google-Thread: 10bf43,1759b8b6e47fdfb5
X-Google-Thread: 1109af,1759b8b6e47fdfb5
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!d34g2000cwd.googlegroups.com!not-for-
mail
From: "an_old_friend" <konstans@hotmail.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: blow code blows it again
Date: 25 Sep 2006 18:35:26 -0700
Organization: http://groups.google.com
Lines: 5
Message-ID: <1159234526.764072.104890@d34g2000cwd.googlegroups.com>
References: <I3_Rg.1389$Y24.641@newsread4.news.pas.earthlink.net>
NNTP-Posting-Host: 69.19.14.23
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159234531 4477 127.0.0.1 (26 Sep 2006 01:35:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Sep 2006 01:35:31 +0000 (UTC)
In-Reply-To: <I3_Rg.1389$Y24.641@newsread4.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d34g2000cwd.googlegroups.com; posting-host=69.19.14.23;
   posting-account=5Yl6pg0AAADpwOMWiAfWEILF9IbswBYm
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5541
rec.radio.amateur.homebrew:7094 rec.radio.amateur.policy:46494 rec.radio.swap:7807
```

Slow Code wrote:
>

blow code blows it again

```
From -8344619732301301105
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: "an_old_friend" <konstans@hotmail.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: blow code blows it again
Date: 25 Sep 2006 18:36:18 -0700
Organization: http://groups.google.com
Lines: 5
Message-ID: <1159234578.082966.43100@m7g2000cwm.googlegroups.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>
NNTP-Posting-Host: 69.19.14.23
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159234583 4580 127.0.0.1 (26 Sep 2006 01:36:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Sep 2006 01:36:23 +0000 (UTC)
In-Reply-To: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=69.19.14.23;
   posting-account=5Yl6pg0AAADpwOMWiAfWEILF9IbswBYm
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5542
rec.radio.amateur.homebrew:7095 rec.radio.amateur.policy:46495 rec.radio.swap:7808
```

Slow Code wrote:
>
blow code blows it again

```
From -2069802288196735 44
X-Google-Thread: fc8b1,f90553647c160dd2
X-Google-Thread: fc2a5,f90553647c160dd2
X-Google-Thread: 10bf43,f90553647c160dd2
X-Google-Thread: 1109af,f90553647c160dd2
X-Google-Attributes: gidfc8b1,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-
mail
```

```
From: "kb9rqz-1@hotmail.com" <kb9rqz-1@hotmail.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.amateur.policy,
rec.radio.swap
Subject: blow code blows it again
Date: 25 Sep 2006 18:53:35 -0700
Organization: http://groups.google.com
Lines: 5
Message-ID: <1159235615.748581.140030@m73g2000cwd.googlegroups.com>
References: <f3_Rg.1386$Y24.662@newsread4.news.pas.earthlink.net>
NNTP-Posting-Host: 69.19.14.23
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159235621 7190 127.0.0.1 (26 Sep 2006 01:53:41 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Sep 2006 01:53:41 +0000 (UTC)
In-Reply-To: <f3_Rg.1386$Y24.662@newsread4.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=69.19.14.23;
   posting-account=5Hknag0AAAAYK6HZFUZ0xesJztp68g7I
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5543
rec.radio.amateur.homebrew:7096 rec.radio.amateur.policy:46509 rec.radio.swap:7813
```

Slow Code wrote:
>
.blow code blows it again

```
From -6105481227866953762
X-Google-Thread: fc2a5,547f6ee44021501a,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!uns-
out.usenetserver.com!news.usenetserver.com!pc03.usenetserver.com!FUSE.NET-
a2kHrUvQQWlmc!not-for-mail
Date: Mon, 25 Sep 2006 22:27:36 -0400
From: jawod <jawod@fuse.net>
User-Agent: Mozilla Thunderbird 1.0.2 (Macintosh/20050317)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Propsal 5 (US Hams)
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <4f51b$45189089$4831cd39$17928@FUSE.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
```

Lines: 3
X-Trace: 4f51b45189089ed94689c17928
Xref: g2news2.google.com rec.radio.amateur.homebrew:7097

Proposal 5 is :

Only one line at a time when trolling.

From -3441811684782267138
X-Google-Thread: fc2a5,f8e977ca991bcbcd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: What's in a "wall wart" so-called "transformer"?
Date: 25 Sep 2006 22:45:15 -0700
Organization: http://groups.google.com
Lines: 42
Message-ID: <1159249515.251206.43040@m7g2000cwm.googlegroups.com>
References: <ef3ico$q5n@unix1.cc.ksu.edu><ik1gu3-d14.ln1@mail.specsol.com>
   <izfRg.981$fl2.496@trnddc02>
   <IKfRg.9008$zF5.3643@bignews1.bellsouth.net>
NNTP-Posting-Host: 71.112.170.245
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159249520 9459 127.0.0.1 (26 Sep 2006 05:45:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Sep 2006 05:45:20 +0000 (UTC)
In-Reply-To: <IKfRg.9008$zF5.3643@bignews1.bellsouth.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=71.112.170.245;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7098

ken scharf wrote:
> W3JDR wrote:
> > There are also some transformer-input types that produce well-regulated DC
> > outputs using linear regulator technology, and a growing number of units
> > that use switching regulator technology to make the transfoprmer so small
> > that it's hard to tell from the outside that there's even a transformer in
> > it.. The latter are easily distinguishable because they put out quite a bit
> > of power, yet are smaller and much lighter in weight than traditional units
> > with equivalent power capability.
> >
> > Joe
> > W3JDR

...

> Such units actually have a bridge rectifier across the AC mains and supply DC to a switching regulator running at 20-50khz. There is an isolation transformer running at this frequency (it's core is just a small bit of lightweight ferrite). The output of the isolation transformer feeds another bridge rectifier and filter (at ~40khz not much of a filter is needed, small caps and chokes!). There may then be a linear or switching regulator. If the later, it may actually regulate by changing the switching frequency/duty cycle of the original switcher at the AC mains input. In this case the feedback is by means of an opto-isolator for safety.

In small ones (not a whole lot of power; things like 5V at 1A like I have in front of me), the switcher is commonly a flyback type, and the regulation is provided by monitoring how far the primary flies back. The secondary side is a single rectifier diode feeding a filter cap. Knowing the turns ratio and the expected losses in parts like the secondary rectifier, you can achieve pretty decent regulation that way. They commonly run at much higher than 50kHz these days. There are some small ICs that make the job very easy. One characteristic of the switchers is that they commonly run on 100-240V, 50-60Hz input, though not always. It's rarely the case that a mains-frequency transformer model will operate properly over such a wide voltage range. Wide input range switchers do make travel to countries with different mains voltages more convenient.

Cheers,
Tom

From -2441877139171452248
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!newsfeed.icl.net!
newsfeed.fjserv.net!nntp.theplanet.net!inewsm1.nntp.theplanet.net!
newsfeed.esat.net!feeder.news.heanet.ie!news.indigo.ie!not-for-mail
From: Eamon Skelton <Xnospam@oceanfree.net>
Subject: Re: ARRL "Homebrew Challenge"
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2006.09.26.08.03.15.26219@oceanfree.net>
Newsgroups: rec.radio.amateur.homebrew
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
<VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
<ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
<__kRg.8194$tT6.613@bignews7.bellsouth.net> <9MvRg.3318$R%1.2615@newsfe05.lga>
<kc6dh212cc3i4obbmgqu8ak9phvp58djc6@4ax.com>
<_1CRg.16699$tT6.2732@bignews7.bellsouth.net>
<pan.2006.09.25.18.28.52.539111@never.will.be>
<YBZRg.9486$zF5.7514@bignews1.bellsouth.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 28
Date: Tue, 26 Sep 2006 09:03:17 +0100
NNTP-Posting-Host: 213.94.238.2
X-Complaints-To: abuse@eircom.net
X-Trace: news.indigo.ie 1159257790 213.94.238.2 (Tue, 26 Sep 2006 09:03:10 BST)
NNTP-Posting-Date: Tue, 26 Sep 2006 09:03:10 BST
Organization: Eircom.Net http://www.eircom.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:7099

On Mon, 25 Sep 2006 19:28:05 -0400, ken scharf wrote:

>
> There are TWO different flash plugins. Macromedia is NOT supported
> under linux. There is another pluging also called flash that is.

The Macromedia flash plugin works fine on my Linux box. You can get it
from:
http://fpdownload.macromedia.com/get/flashplayer/current/
install_flash_player_7_linux.tar.gz

or with this shorter URL: http://tinyurl.com/prmdd

I think it is closed-source, binary only, so it will probably only
work with X86 versions of Linux.

Note that Macromedia are called Adobe these days.

Anyway, thats enough OT for me. This is turning into a
Linux advocacy group :-)

73, Ed. EI9GQ.

--
Remove 'X' to reply by e-mail
Linux 2.6.17

From -4396963355612930112
X-Google-Thread: fc2a5,a9e2a6dd0e72f19a,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-mail
From: "Gian, I7SWX" <i7swx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Help on General Microwave Bolometer 476
Date: 26 Sep 2006 03:04:27 -0700
Organization: http://groups.google.com

Lines: 19
Message-ID: <1159265067.757380.135840@m7g2000cwm.googlegroups.com>
NNTP-Posting-Host: 80.183.121.222
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159265071 10245 127.0.0.1 (26 Sep 2006 10:04:31 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Sep 2006 10:04:31 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=80.183.121.222;
   posting-account=UdnmUQ0AAABqWSw2iezMYLt5SVbNOulx
Xref: g2news2.google.com rec.radio.amateur.homebrew:7100

Hi all,

a good friend of mine in IT9 (Sicily) has a very nice General Microwave
Bolometer model 476. By mistake he applied too much power and ...
voila' ... the "476 head" failed.
He has now at least 8dB error. He would like to repair replacing the
TFT element that now has 180 value versus the expected 150 ohm.

The Head is model 42040A ok for up to 20GHz.

Thanks for your help

73

Gian
I7SWX
W1-I7SWX
F5VGU

From 7923592561955752357
X-Google-Thread: fc2a5,f3a4aeab8ebd6098,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!newsfeed.freenet.de!border2.nntp.ams.giganews.com!nntp.giganews.com!news-in.ntli.net!newsrout1-win.ntli.net!ntli.net!news.highwinds-media.com!newspeer1-win.ntli.net!newsfe2-win.ntli.net.POSTED!53ab2750!not-for-mail
From: "tony.swanborough" <tony.swanborough@ntlworld.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: SMD
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962

```
X-RFC2646: Format=Flowed; Original
Message-ID: <pD8Sg.47149$7D6.36129@newsfe2-win.ntli.net>
Date: Tue, 26 Sep 2006 12:00:21 GMT
NNTP-Posting-Host: 86.7.65.47
X-Complaints-To: http://www.ntlworld.com/netreport
X-Trace: newsfe2-win.ntli.net 1159272021 86.7.65.47 (Tue, 26 Sep 2006 13:00:21
BST)
NNTP-Posting-Date: Tue, 26 Sep 2006 13:00:21 BST
Organization: ntl Cablemodem News Service
Xref: g2news2.google.com rec.radio.amateur.homebrew:7101
```

Hi all, could some kind soul please help me !!

I live in the uk, looking to buy small amounts of SMD, ie

Resistors/capacitors etc   Local (UK) if possible !

TIA
Tony

```
From 3558628253380235200
X-Google-Thread: fc2a5,9fb7b5f9b57b3816
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!wn13feed!
worldnet.att.net!bgtnsc04-news.ops.worldnet.att.net.POSTED!53ab2750!not-for-mail
Message-ID: <45192DC9.317100DF@gumby.com>
From: carl <carl@gumby.com>
X-Mailer: Mozilla 4.79 [en] (Windows NT 5.0; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 'Stripping' Enamel Wire.
References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
<Xns98497D02C3DCAsamsvlnlrnl@192.87.166.15>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 5
Date: Tue, 26 Sep 2006 13:40:26 GMT
NNTP-Posting-Host: 12.76.208.12
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc04-news.ops.worldnet.att.net 1159278026 12.76.208.12 (Tue, 26 Sep
2006 13:40:26 GMT)
NNTP-Posting-Date: Tue, 26 Sep 2006 13:40:26 GMT
Organization: AT&T Worldnet
Xref: g2news2.google.com rec.radio.amateur.homebrew:7102
```

try some laquer thinner or small amount of
nail polish remover (contains acetone).

carl

```
From 4715990059916633984
X-Google-Thread: fc2a5,f3a4aeab8ebd6098
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 26 Sep 2006 08:48:53 -0500
Date: Tue, 26 Sep 2006 14:49:30 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/
20060910 SeaMonkey/1.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SMD
References: <pD8Sg.47149$7D6.36129@newsfe2-win.ntli.net>
In-Reply-To: <pD8Sg.47149$7D6.36129@newsfe2-win.ntli.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <HZ6dnYvIz_1YsoTYRVnyhA@pipex.net>
Lines: 19
NNTP-Posting-Host: 81.178.254.145
X-Trace: sv3-0ElhKwcMQt6ZjZhvKoT/DN1mu7Ta4SOrkn99Mvpy/
iS6EeZIn+yX34C8ZxktiTT4XKHJh13flUoofXT!
cQPAVGlqDm9C2mLyW7azvzIZLKuvNauSe9633FHRFSSXo5PRN8l4lNNdgbhGG1s8R+e6Jex73I49!+/
ECMbcSMKpy8w==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7103
```

tony.swanborough wrote:
> Hi all, could some kind soul please help me !!
>
> I live in the uk, looking to buy small amounts of SMD, ie
>
> Resistors/capacitors etc   Local (UK) if possible !
>============================

Suggest you check with :

www.jabdog.com	Birminham -UK
www.modecomponents.co.uk	Birmingham -UK
www.bowood-electronics.co.uk	Baslow -Derbyshire -UK

Good Luck

Frank GM0CSZ / KN6WH

```
From -89535910765786148
X-Google-Thread: fc2a5,1759b8b6e47fdfb5
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 26 Sep 2006 09:03:37 -0500
Date: Tue, 26 Sep 2006 15:04:13 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/
20060910 SeaMonkey/1.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: blow code blows it again
References: <I3_Rg.1389$Y24.641@newsread4.news.pas.earthlink.net>
<1159234526.764072.104890@d34g2000cwd.googlegroups.com>
In-Reply-To: <1159234526.764072.104890@d34g2000cwd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <NoOdnd_7ZY6kroTYnZ2dnUVZ8tydnZ2d@pipex.net>
Lines: 14
NNTP-Posting-Host: 81.178.254.145
X-Trace:
sv3-2ttsu8iL0leIPmjqjs5Pb3wgoyiqu8mBDTO2k4nSWGQbRANJf3+HHL6PbkKQBRyD1TeIrwFuE4KeLk
K!yaRO8WnauyW4prGCkt8NzFQ7Dp3DLqBqCAmHDBbA0qRXkZ+LyKYIxeVP40xKfX5GCtuH1UXQoyPc!
p8FCp73SgAFrqPYKF+WkcvrBMfo=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7104
```

an_old_friend wrote:
> Slow Code wrote:
> blow code blows it again

==================================
For the purpose of this reply I deleted a number of NGs since I only
subscribe to rec.radio.amateur.homebrew

The problem with Usenet is that you can post any messages to multiple
NGs with the consequence that the messages appear in non-related NGs
If this were NOT possible , NG-life would be so much more
effective/efficient and .... peaceful.

Frank   GM0CSZ / KN6WH

```
From 5353192107764915516
X-Google-Thread: fc2a5,59bb9b40ce520a4a,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 26 Sep 2006 09:58:32 -0500
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: parting out an HP 8557A
Date: Tue, 26 Sep 2006 09:58:41 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Original
Message-ID: <mOmdnbZ_V8aF3YTYnZ2dnUVZ_q-dnZ2d@comcast.com>
Lines: 12
NNTP-Posting-Host: 71.228.3.96
X-Trace:
sv3-9nsW21sd893Tors+p1MhO1nzJb8SWpCCpTtIOKYMHwPAKZisqLH5oMakCmQYfe64YYoHsV4mX1qU0Q
K!jyb0S6Z9lc6FpYdQD66QWIzRwgrh46KFEvrvkydQisXWOptfg/HHjlyUjZ802PHR5B2SH5CpRJXO!
Rh8PvCE5dXxS
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7105
```

I know that this is off-topic, but since there are many homebrewer/designers on this group, I will mention it. I am parting out an HP 8557A. This is the one with the LED display.
I purchased it from a local hamfest and discovered that the sweep board had a problem. All of the other boards, including the front panel assembly with the attenuator should be ok.
Let me know if you are looking for any of the board/assemblies and we can work out a reasonable price.

Pete

```
From 6823382963529953327
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
```

X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news2.google.com!news.maxwell.syr.edu!newsfeed.icl.net!colt.net!feeder.news-service.com!news2.euro.net!border2.nntp.ams.giganews.com!nntp.giganews.com!sn-xt-ams-06!sn-xt-ams-05!sn-ams!sn-feed-ams-01!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amateur.boatanchors
Subject: Re: Proposal 3 (US Hams)
Date: Wed, 27 Sep 2006 18:07:19 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12hm82854rvpdff@corp.supernews.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <d-adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net> <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost> <FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net> <1159385541.965825.190570@d34g2000cwd.googlegroups.com> <pan.2006.09.27.20.43.09.198072@no.spam.invalid>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 26
Xref: g2news2.google.com rec.radio.amateur.homebrew:7156 rec.radio.amateur.policy:47259 rec.radio.swap:7928 rec.radio.amateur.boatanchors:5604

"Leroy" <no.spam@no.spam.invalid> wrote in message
news:pan.2006.09.27.20.43.09.198072@no.spam.invalid...

> I was under the impression that CW would get through under worse
> conditions and/or with lower power requirements than other modes.

Various digital modes do better under low SNR conditions than CW, but they do require a computer at both ends to perform the encoding and decoding -- some people don't like that fact, that you seemingly need "more equipment" to work such modes than you do with CW. It's a bit of a red herring, however, in that these days pretty much every single amateur radio being sold commercially has a processor (computer) in it anyway, and while some are strictly for "control" (not modulation/demodulation), the percentage that does have raw number crunching power increases every day, and within a decade it's a fair bet that over 90% of all commerical amateur radios will use DSP techniques for modulation and demodulation. (Cell phone went to DSPs somewhere between 5-10 years ago now...)

> Does no one run "flea power" anymore?

Absolutely they do, and it's a really cool part of the hobby... but for every

100 amateurs, I would guess that the number running QRP on a regular basis is about 1.

---Joel

```
From 5624071588679891368
X-Google-Thread: fc2a5,7d2662b1832e8899
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!postnews.google.com!
b28g2000cwb.googlegroups.com!not-for-mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HHH Update
Date: 27 Sep 2006 18:19:44 -0700
Organization: http://groups.google.com
Lines: 41
Message-ID: <1159406384.485928.232760@b28g2000cwb.googlegroups.com>
References: <efdu2m$kf1$1@news.al.sw.ericsson.se>
NNTP-Posting-Host: 207.200.116.72
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159406388 29271 127.0.0.1 (28 Sep 2006 01:19:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 28 Sep 2006 01:19:48 +0000 (UTC)
In-Reply-To: <efdu2m$kf1$1@news.al.sw.ericsson.se>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-tb12.proxy.aol.com[CFC870B9] (Prism/1.1.3), HTTP/1.1 cache-ntc-
ab08.proxy.aol.com[CFC87448] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=207.200.116.72;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:7157
```

Harry Lethall wrote:

> Hi all,
> I have had a bit of a busy half-year, with sickness in the family and the
> like. But I have managed to add a few new projects that could be of interest
> to my homepages on http://web.telia.com/~u85920178
>
> Have you ever wondered how these old IF-cans can be re-used? I have two
> different articles dedicated to them:
> http://web.telia.com/~u85920178/begin/cans-0.htm (reusing IF cans)
> http://web.telia.com/~u85920178/rx/tda7k-rx2.htm (TDA7000 for NBFM)
> http://web.telia.com/~u85920178/blocks/if-txfmr_tube_00.htm (Making your
> own)

>
> Last month someone asked me how I choose values for components, but "Can you
> add calculations". Ok, I did it, with a few over-simplifications, and for a
> crude project:
> http://web.telia.com/~u85920178/begin/bug_calc.htm (FM Wireless Microphone)
> http://web.telia.com/~u85920178/begin/calc-00.htm (Includes loads of useful
> calculators)
>
> Earlier int he year I needed to throw together s quick VHF antenna for
> 446MHz, 432MHz, and again for 145MHz. When I had to do it for 105MHz I
> created this project:
> http://web.telia.com/~u85920178/antennas/vpole0.htm (15-minute +2.5dBd
> antenna)
>
> Where did those multi-gang tuning capacitors go? I needed one, so I etched
> it on a PCB, cheap:
> http://web.telia.com/~u85920178/use/tuning_caps.htm (multi-gang - for
> HF/VHF)
> http://web.telia.com/~u85920178/use/tuning_caps2.htm (PCB Preset capacitor)

Hejsan, "Lethall Harry!" :-)

Excellent new pages on your website. The two on homemade
tuning capacitors is very good. Keep it up, please, should be of
help to many hobbyists, not just licensed radio amateurs.

LenAnderson@ieee.org

From -695206503208513490
X-Google-Thread: fcc6e,3946db13a1a563fc
X-Google-Thread: 108122,3946db13a1a563fc
X-Google-Thread: fc2a5,3946db13a1a563fc
X-Google-Thread: 10bf43,3946db13a1a563fc
X-Google-Thread: 1109af,3946db13a1a563fc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!indigo.octanews.net!news-out.octanews.net!mauve.octanews.net!news-out.readnews.com!spool-big1.readnews.com!diablo3.voicenet.com!snip.allthenewsgroups.com!not-for-mail
Reply-To: "Mike little lamp" <precise4beans@yahoo.com>
From: "Mike little lamp" <precise4beans@yahoo.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
References: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
Subject: Re: CW not CB
Date: Wed, 27 Sep 2006 21:42:03 -0400
Lines: 7
Organization: goals of the committee
MIME-Version: 1.0
Content-Type: text/plain;

```
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Message-ID: <201cd$451b28af$d1cc41f9$16757@snip.allthenewsgroups.com>
X-Complaints-To: abuse@allthenewsgroups.com
NNTP-Posting-Host: sarc4a-209-204-65-249.sniparpa.net
X-Trace: 201cd451b28af7469e45c16757
Xref: g2news2.google.com rec.radio.amateur.antenna:18851
rec.radio.amateur.equipment:6504 rec.radio.amateur.homebrew:7158
rec.radio.amateur.policy:47264 rec.radio.swap:7930


"Slow Code" <my.mail@no.spam> wrote in message
news:twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net...
> Why are you people against having good hams?

Go back to rec.radio.amateur.policy Lloyd.



From -1005341866314799927
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr12.news.prodigy.com.POSTED!af499550!not-for-mail
From: "kd5sak" <kd5sak@sbcglobal.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <d-
adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net> <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
<FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
<1159385541.965825.190570@d34g2000cwd.googlegroups.com>
<pan.2006.09.27.20.43.09.198072@no.spam.invalid>
<12hm82854rvpdff@corp.supernews.com>
Subject: Slightly OT was Re: Proposal 3 (US Hams)
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <TQFSg.6683$vJ2.3843@newssvr12.news.prodigy.com>
NNTP-Posting-Host: 69.148.136.173
```

X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr12.news.prodigy.com 1159408051 ST000 69.148.136.173 (Wed, 27 Sep 2006 21:47:31 EDT)
NNTP-Posting-Date: Wed, 27 Sep 2006 21:47:31 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
SCSYASJDQJCUSVDXN[O@_WH@YR_B@EXLLBWLOOAF@YUDUWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
TINTDDMVW[X\THOPXZRVOCJTUTPC_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Thu, 28 Sep 2006 01:47:31 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7159
rec.radio.amateur.policy:47268 rec.radio.swap:7934
rec.radio.amateur.boatanchors:5605

"Joel Kolstad" <JKolstad71HatesSpam@yahoo.com> wrote in message
news:12hm82854rvpdff@corp.supernews.com...
> "Leroy" <no.spam@no.spam.invalid> wrote in message
> news:pan.2006.09.27.20.43.09.198072@no.spam.invalid...
> Absolutely they do, and it's a really cool part of the hobby... but for
> every 100 amateurs, I would guess that the number running QRP on a regular
> basis is about 1.
>
> ---Joel
>
>

My sole experience with QRP was accidental. I had reduced power to 5 watts
to tune to a different band (17 meters) and forgot to turn the power back
up. As a result I found myself speaking to a Swiss ham form my southern
Oklahoma shack with 5 watts and getting a reasonably good signal report. I
realize that for real QRPers 5 watts is high power, but for me it was an
unusual pleasure. Moreso because bad weather had me using an indoor dipole
mounted on the wifes sewing room ceiling (about nine feet above the earth).

Harold
KD5SAK

From 1499330831262979888
X-Google-Thread: fcc6e,3946db13a1a563fc
X-Google-Thread: 108122,3946db13a1a563fc
X-Google-Thread: fc2a5,3946db13a1a563fc
X-Google-Thread: 10bf43,3946db13a1a563fc
X-Google-Thread: 1109af,3946db13a1a563fc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 27 Sep 2006 20:53:16 -0500
From: "Noon-Air" <Noon-Air@comcast.net>

Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
References: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
<EqySg.18854$tT6.18444@bignews7.bellsouth.net>
<1159384748.262629.177230@e3g2000cwe.googlegroups.com>
<hDBSg.17676$Ij.3549@newssvr14.news.prodigy.com>
<1159401129.637366.183720@m7g2000cwm.googlegroups.com>
Subject: Re: CW not CB
Date: Wed, 27 Sep 2006 20:53:14 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <m4ednVjF1PeRtobYnZ2dnUVZ_rKdnZ2d@comcast.com>
Lines: 23
NNTP-Posting-Host: 71.226.69.91
X-Trace: sv3-yp7Xh+wnazZ8pImXMvpq8QftTCpw2LcbqsLH2VgUpgGPmrecCNuMQV3DQMAdcNJaQ2oEg4kWhnNT36s!Gewx4y5HPuqZkBANjTkG/olds67El5BbRKNr1HektpM669K75DO2JUQkjquOJmstVFl26F7aLpft!pfoCOLKF/VuW
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.antenna:18853 rec.radio.amateur.equipment:6505 rec.radio.amateur.homebrew:7160 rec.radio.amateur.policy:47270 rec.radio.swap:7936

<LenAnderson@ieee.org> wrote in message news:1159401129.637366.183720@m7g2000cwm.googlegroups.com...
>
> Cecil Moore wrote:
>> LenAnderson@ieee.org wrote:
>> >   My wife and I had aged ham at Easter. Tasted like chicken.
>>
>> I have a turkey ham sandwich in my hand at the moment.
>
>   Enjoy! :-)
>
>   Everyone else ought to remember the definition of ham: "Ham is
>   the butchered meat of swine."
>
>
>
>
>   There...now THAT's a troll!   :-)

either way, its still a dead farm animal

```
From 8825079326333854928
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
198.186.190.247.MISMATCH!news-out.readnews.com!news-xxxfer.readnews.com!panix!
panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups: 
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
Subject: Re: Proposal 3 (US Hams)
Date: 27 Sep 2006 21:54:57 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 16
Message-ID: <effa1h$ec7$1@panix2.panix.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>
<1159385541.965825.190570@d34g2000cwd.googlegroups.com>
<pan.2006.09.27.20.43.09.198072@no.spam.invalid>
<75DSg.5293$TV3.2834@newssvr21.news.prodigy.com>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader1.panix.com 1159408496 323 166.84.1.2 (28 Sep 2006 01:54:56 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Thu, 28 Sep 2006 01:54:56 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7161
rec.radio.amateur.policy:47271 rec.radio.swap:7937
rec.radio.amateur.boatanchors:5606

kd5sak <kd5sak@sbcglobal.net> wrote:
>>
>Has much to do with where we are in the sunspot cycle.  A couple or three
>years from now
>10 meters will start to be much busier. It's my misfortune I got my upgrade
>to General a year before the dead bottom of the cycle. At the age of 74 I'm
>just hoping to be around long enough
>to see what the high point in the cycle sounds like.(G)

Man, do anything you can to stick around.  It's going to be good, and 10M
FM is just more fun than anything.  Get a PRC-8 and take lots of vitamin C.
I predict that this next peak is going to be a really good one, at least as
good as '78 was.
--scott
-- 
"C'est un Nagra.  C'est suisse, et tres, tres precis."
```

```
From 1829137215990473126
X-Google-Thread: fc2a5,59bb9b40ce520a4a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 28 Sep 2006 00:07:34 -0500
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <mOmdnbZ_V8aF3YTYnZ2dnUVZ_q-dnZ2d@comcast.com>
<X92dnUIMY_dbXYTYnZ2dnUVZ_tqdnZ2d@comcast.com>
<4bSdnSadEZmUl4fYnZ2dnUVZ_sCdnZ2d@comcast.com>
<3fednaXvgeUclobYnZ2dnUVZ_oadnZ2d@comcast.com>
Subject: Re: parting out an HP 8557A
Date: Thu, 28 Sep 2006 00:07:44 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <guidnUQjyvcLxYbYnZ2dnUVZ_sOdnZ2d@comcast.com>
Lines: 25
NNTP-Posting-Host: 71.228.3.96
X-Trace:
sv3-9AKLdF4XH9eBjpWRw7elgXf6MNEgU8h3kAAQltfvE6VBI0P2CWwDx6erWRQDLX1z6B6BQI+XjFMdHC
J!34vr9cV/+XYIklLc7bMEItLbTvQdid4IBr8v5Q4gCKg4vEYxTd4AZ773pS2OfrQDSOLnaV2jFd/D!
hlZAbxPfH1M6
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7162
```

I did, but all of the unit is up for grabs. It is a nice 60dB attenuator. I've got all of the board in a box..........probably, I will end up taking it to a hamfest if I don't sell the parts sooner. The LED readout board seems to be the same as on my 8558, so maybe I will hang on to that.

Pete

"g. beat >" <@<spam protected> wrote in message
news:3fednaXvgeUclobYnZ2dnUVZ_oadnZ2d@comcast.com...
>
> "Pete KE9OA" <p.gianako@comcast.net> wrote in message
> news:4bSdnSadEZmUl4fYnZ2dnUVZ_sCdnZ2d@comcast.com...
>> Thanks for the info......................I've already got an 8558B, so I
>> am set. I just removed the knobs for some extras for my own unit. I don't
>> have much tied up in this unit, and I have already scrapped it.
>>

>> Pete
>
> Hopefully you kept the attenuator
>
> w9gb
>
>

From -3956023736904683288
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 28 Sep 2006 06:29:19 -0500
Date: Thu, 28 Sep 2006 12:29:22 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/
20060910 SeaMonkey/1.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Change   (was : Proposal 3 (US Hams))
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>
<g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
<FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
<1159385541.965825.190570@d34g2000cwd.googlegroups.com>
<efesah$9cf$1@panix2.panix.com>
<1159396575.512792.26990@e3g2000cwe.googlegroups.com>
In-Reply-To: <1159396575.512792.26990@e3g2000cwe.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Sv2dnUdWMKWSL4bYRVny2w@pipex.net>
Lines: 7
NNTP-Posting-Host: 81.179.91.40
X-Trace: sv3-vAjeoYA1GSqGgeWoTAfYL8H57wTq4X3cSr+YeH47eXQ+xEwWK+XEs+sQ9VQmxU+IK/
EDKSMD+e0wQWG!O+kYdYbWddaH3F9poFcHcLzybIE+l4ni/
rc6XpbpS6wyWggIrbbZHslu4tzAsQoSTIbw+EUqYXYU!7gZPqGB9/7U=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7163

>
> Change is neither good or bad, it's just change.
============================
IMHO Change enables people to retain an active mind..........and that

in itself is positive ---------> Good !

Frank GM0CSZ / KN6WH

```
From 2715619141167195385
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 28 Sep 2006 06:43:09 -0500
Date: Thu, 28 Sep 2006 12:43:13 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/
20060910 SeaMonkey/1.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Proposal 3 (US Hams)
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <d-
adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net> <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
<FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
<1159385541.965825.190570@d34g2000cwd.googlegroups.com>
<pan.2006.09.27.20.43.09.198072@no.spam.invalid>
<vIidnYm705YFlYbYnZ2dnUVZ_rWdnZ2d@comcast.com>
In-Reply-To: <vIidnYm705YFlYbYnZ2dnUVZ_rWdnZ2d@comcast.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <2c2dnUZNMb7TKIbYRVnyuQ@pipex.net>
Lines: 8
NNTP-Posting-Host: 81.179.91.40
X-Trace: sv3-ovWsslEwJ7L23FrxLjv9g9pFVLb5Svj//
cwyZHIwKEbn+2pIj7WticdEuhgRlSZIZQnXDkoKy96POgS!
yDzgdSLa6PHsIQykEuLORQp7KQFttU5zwJ5/DL+o+ERmD5U5QzrR6B5r1/NIZFzvpE96n5d6/Xfn!1R/
0d57LPl8=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7164
```

> Yes that can be true. They speak of PSK as being low power but that is only
> low transmit power. It takes more power to generate a 25w PSK signal than a
> 100watt CW signal.   ---> Computers draw a lot of power.<-----

==========
Unless you use a laptop

Frank   GM0CSZ / KN6WH

```
From 3824758418029432251
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-
mail
From: bob_deep@yahoo.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
Subject: Re: Proposal 3 (US Hams)
Date: 28 Sep 2006 05:54:10 -0700
Organization: http://groups.google.com
Lines: 67
Message-ID: <1159448050.572061.307800@b28g2000cwb.googlegroups.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>
   <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
   <FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
   <1159385541.965825.190570@d34g2000cwd.googlegroups.com>
   <efesah$9cf$1@panix2.panix.com>
   <1159396575.512792.26990@e3g2000cwe.googlegroups.com>
   <DP-dnRUel627l4bYnZ2dnUVZ_oqdnZ2d@comcast.com>
NNTP-Posting-Host: 71.240.172.85
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159448055 29597 127.0.0.1 (28 Sep 2006 12:54:15 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 28 Sep 2006 12:54:15 +0000 (UTC)
In-Reply-To: <DP-dnRUel627l4bYnZ2dnUVZ_oqdnZ2d@comcast.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=71.240.172.85;
   posting-account=knMWMQ0AAACma615_DQioSE9uvOCZgOy
Xref: g2news2.google.com rec.radio.amateur.homebrew:7165
rec.radio.amateur.policy:47301 rec.radio.swap:7946
rec.radio.amateur.boatanchors:5613


Dee Flint wrote:
> <bob_deep@yahoo.com> wrote in message
>>  I'd be willing to argue that point in favor
> > of the computer.
> >
>
> Actually, you would lose such an argument.

I don't think so, at least under most common operating conditions.
```

>There are many hams who have proven that they can decipher better than the computer. The computer hardware or software requires the following characteristics in the received transmission to work:
>
> 1. A strong signal

Signal to noise ratio would be important, to be sure, however with the proper application of some limited computing power I'm sure one could construct a detector that would work with seriously low SNR. It is amazing what DSP's can do now days..

> 2. No distortion on the signal such as occurs from aurora, meteor scatter, etc.

Again, I've seen spectral displays that clearly show CW transmissions that could *not* be heard.

> 3. The code sent is nearly equal in quality to that sent by a computer. Some one using paddles may achieve that but if they are sending with a manual key or bug, that is highly unlikely.

Sending code is not in question. Surely a computer is able to open and close the keying faster than a transmitter can possibly transmit. Also, remember that the faster you key, the higher bandwidth your signal will require and the higher the SNR will theoretically need to be for it to be decoded at the receiving end.

> I have frequently been able to copy better than the computer and my code skills are quite modest. The only time it beats me is when the code meets the above three criteria and is too fast for me to copy.

I would contend that the software you are using is not utilizing the inputted signal at it's full potential. I've seen audio processing techniques that could pull out inaudible signals that where more complicated than CW would be.

I would also ask if you where copying random characters or where you able to "fill in the gaps" by using the context? The latter would be a very different problem for a computer to solve.

> > I'll be willing to bet that there won't be much improvement over CW in the raw "get the message though under bad conditions" power with the new digital modes using the same bandwidth as CW. Simple is under-rated in my book.
> >
>
> I'm not sure I understand what you are saying here. Did you leave something out?
>

I'm saying that if you pick any digital mode, restrict the bandwidth to that of the CW signal with the same data rate, keep the SNR the same with the same error rates, CW will be about as good as you can get. Not bad for an operating mode that has been around as long as CW.

From 6807521780586959862
X-Google-Thread: fc2a5,e51c450bdeff5cda
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread2.news.pas.earthlink.net.POSTED!844853ae!not-for-mail
Message-ID: <451BD335.6060309@invalid.invalid>
From: Doug Smith W9WI <w9wi@invalid.invalid>
Reply-To: w9wi@invalid.invalid
Organization: Ham Radio W9WI
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.0.1) Gecko/20020830
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MFJ-1278 software
References: <d2nSg.5541$Go3.1040@dukeread05>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 31
Date: Thu, 28 Sep 2006 13:50:47 GMT
NNTP-Posting-Host: 4.153.65.59
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1159451447 4.153.65.59 (Thu, 28 Sep 2006 06:50:47 PDT)
NNTP-Posting-Date: Thu, 28 Sep 2006 06:50:47 PDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7166

Kerry Miller wrote:
> I've been off the air for several years and am getting back on finally.
> I have an MFJ-1278B TNC and have used it with a normal terminal program
> on Windows (hyperterm) and Linux (minicom) but don't have any software
> anymore that will run on XP or Linux. Is there any software out there
> that supports the other modes this TNC will do like wefax and sstv? I
> have used it for rtty, cw and packet but don't have anything that will
> work with the graphical modes.
>
> Any suggestions? Will any of the sound card software work with a TNC
> instead of a soundcard?

I bought one of these some years back. I made the same search you did and came up empty-handed. I've been happy with Baudot and VHF packet so never really got too serious about the other modes.

I did hook up the accessory audio I/O on my rig to the soundcard in the computer, with the intent of making unattended recordings (for AM BCB DXing - works great!) and using the computer as a voice keyer. Turns out the same connections are appropriate for PSK31 and other soundcard modes. Very simple (one transistor, one resistor) serial port interfaces are possible to let the computer PTT the radio, or you can even buy one preassembled, and if you don't have a soundcard they're pretty cheap.

I still use the 1278 for Baudot.

--
Doug Smith W9WI
Pleasant View (Nashville), TN EM66
http://www.w9wi.com

From -3022705941622995007
X-Google-Thread: fc2a5,43d93348367a9ace
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-mail
From: "K7ITM" <k7itm@msn.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: High Quality RF Connectors, Adapters & Cable Assemblies @ Low Cost
Date: 28 Sep 2006 07:41:33 -0700
Organization: http://groups.google.com
Lines: 24
Message-ID: <1159454493.485278.177110@b28g2000cwb.googlegroups.com>
References: <h2ESg.895$La2.447@fed1read08>
NNTP-Posting-Host: 192.25.240.225
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159454498 12715 127.0.0.1 (28 Sep 2006 14:41:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 28 Sep 2006 14:41:38 +0000 (UTC)
In-Reply-To: <h2ESg.895$La2.447@fed1read08>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=192.25.240.225;
   posting-account=phdUIAwAAABBVjeZzACGtATOLRtXatU-
Xref: g2news2.google.com rec.radio.amateur.homebrew:7167

Others who are tired of seeing these ads: I suggest you all send email telling them that, to sales@aaarfproducts.com. You might mention that they are getting _negative_ word-of-mouth because of this practice.

Cheers,
Tom

AAA RF Products wrote:
> AAARFProducts.com

>
> Any 10 SMA Male to SMA Male cable assemblies for $99.00
>
> RG-58C/U or RG-223/U
>
> Mix & match any 10
>
> Length available: 12", 18", 24", 30", 36", 48", 60", 72", 84", & 96"
>
> High quality & made in USA
>
> Please visit
> AAARFProducts.com

```
From -6406552882430811193
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 28 Sep 2006 10:16:44 -0500
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>
<g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
<FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
<1159385541.965825.190570@d34g2000cwd.googlegroups.com>
<efesah$9cf$1@panix2.panix.com>
<1159396575.512792.26990@e3g2000cwe.googlegroups.com>   <DP-
dnRUel627l4bYnZ2dnUVZ_oqdnZ2d@comcast.com>
<1159448050.572061.307800@b28g2000cwb.googlegroups.com>
Subject: Re: Proposal 3 (US Hams)
Date: Thu, 28 Sep 2006 11:16:33 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <IIKdndc7m_XBeobYnZ2dnUVZ_vGdnZ2d@comcast.com>
Lines: 129
NNTP-Posting-Host: 68.61.218.179
X-Trace: sv3-7kbrqNfUyghgPh89jgK8my1UD+qUzifCyvN7h15MuWiv/
ltqK9yjUOWs+kMwVuZzhQjmb/x3anWesMv!03oGoJTJn6dBpZW/
zp7M+GRiljxnFEOi+JoEj11mIvcmf0AyBiT32hWer7DkH8SgSXSDjYPPLDsW!ii8pBhRPenfqzJKM
X-Complaints-To: abuse@comcast.net
```

X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7168
rec.radio.amateur.policy:47311 rec.radio.swap:7950
rec.radio.amateur.boatanchors:5615

<bob_deep@yahoo.com> wrote in message
news:1159448050.572061.307800@b28g2000cwb.googlegroups.com...
>
> Dee Flint wrote:
>> <bob_deep@yahoo.com> wrote in message
>>> I'd be willing to argue that point in favor
>> > of the computer.
>> >
>>
>> Actually, you would lose such an argument.
>
> I don't think so, at least under most common operating conditions.
>

Define "common operating conditions".

For a contester, common operating conditions often include murderous QRM.
Yet contesting is common. I've always maintained that one can construct
various scenarios such that there is one where the particular mode under
discussion is "the best".

For ragchewers, common operating conditions often include manually sent CW.

>>There are many hams who have
>> proven that they can decipher better than the computer. The computer
>> hardware or software requires the following characteristics in the
>> received
>> transmission to work:
>>
>> 1. A strong signal
>
> Signal to noise ratio would be important, to be sure, however with the
> proper application of some limited computing power I'm sure one could
> construct a detector that would work with seriously low SNR. It is
> amazing what DSP's can do now days..
>

Yes and there are some very fine software programs already available. But
even so they fail before the "EAR" fails, assuming a trained and experienced
operator.

>> 2. No distortion on the signal such as occurs from aurora, meteor
>> scatter,

>> etc.
>
> Again, I've seen spectral displays that clearly show CW transmissions
> that could *not* be heard.
>

So I've seen displays of many types of signals that cannot be heard. That
is an entirely different issue from distortion. When the auroras start
playing, PSK (as an example) is so distorted that no matter how strong the
signal, the computer cannot decipher it. If a CW signal is distorted but
loud enough to hear, the human ear/brain combo can still decipher.

>> 3. The code sent is nearly equal in quality to that sent by a computer.
>> Some one using paddles may achieve that but if they are sending with a
>> manual key or bug, that is highly unlikely.
>
> Sending code is not in question. Surely a computer is able to open and
> close the keying faster than a transmitter can possibly transmit.
> Also, remember that the faster you key, the higher bandwidth your
> signal will require and the higher the SNR will theoretically need to
> be for it to be decoded at the receiving end.
>

Receiving is the issue. If the received code was manually sent, the
computer often fails.

>> I have frequently been able to copy better than the computer and my code
>> skills are quite modest. The only time it beats me is when the code
>> meets
>> the above three criteria and is too fast for me to copy.
>
> I would contend that the software you are using is not utilizing the
> inputted signal at it's full potential. I've seen audio processing
> techniques that could pull out inaudible signals that where more
> complicated than CW would be.
>

I''ve tested everyone I could find. I'm one of those people who gets
pleasure out of trying all the new gadgets & software I can find and afford.
I've also seen inaudible signals pulled out of all kinds. That's quite
feasible when the bands are in good shape. Add a little thunderstorm
activity, geomagnetic disturbances, solar flares, etc and the machine can't
decipher them. It's not a matter of signal strength but a matter of signal
quality.

> I would also ask if you where copying random characters or where you
> able to "fill in the gaps" by using the context? The latter would be a
> very different problem for a computer to solve.
>

Yes it is a different matter. Humans definitely have the edge on "fill in
the gaps".

>> > I'll be willing to bet that there won't be much improvement over CW in
>> > the raw "get the message though under bad conditions" power with the
>> > new digital modes using the same bandwidth as CW. Simple is
>> > under-rated in my book.
>> >
>>
>> I'm not sure I understand what you are saying here. Did you leave
>> something
>> out?
>>
>
> I'm saying that if you pick any digital mode, restrict the bandwidth to
> that of the CW signal with the same data rate, keep the SNR the same
> with the same error rates, CW will be about as good as you can get.
> Not bad for an operating mode that has been around as long as CW.
>

Ok, I understand. Actually many digital modes are, by their nature, narrower than CW already. You would have to open up the filter to get to the same bandwidth. Again the key item is quality of signal. For example, aurora induces phase shifts on PSK (phase shift keying) and makes it undecipherable. It also induces phase shifts in voice and CW. It gives the voice & CW signals a buzzy, raspy sound. Yet you can often understand voice when PSK is undecipherable.   CW, when there is a phase shift, sounds like a series of buzzes but can still be copied if you are used to it.

And yes CW does a fine job and will continue to be advantageous under certain conditions.

Dee, N8UZE

From -2446695116372141777
X-Google-Thread: fcc6e,3946db13a1a563fc
X-Google-Thread: 108122,3946db13a1a563fc
X-Google-Thread: fc2a5,3946db13a1a563fc
X-Google-Thread: 10bf43,3946db13a1a563fc
X-Google-Thread: 1109af,3946db13a1a563fc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-mail
From: "kb9rqz-2@hotmail.com" <kb9rqz-2@hotmail.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: CW not CB
Date: 28 Sep 2006 09:00:16 -0700
Organization: http://groups.google.com
Lines: 9
Message-ID: <1159459216.319850.296270@e3g2000cwe.googlegroups.com>

```
References: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
   <201cd$451b28af$d1cc41f9$16757@snip.allthenewsgroups.com>
NNTP-Posting-Host: 66.82.9.53
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159459221 24591 127.0.0.1 (28 Sep 2006 16:00:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 28 Sep 2006 16:00:21 +0000 (UTC)
In-Reply-To: <201cd$451b28af$d1cc41f9$16757@snip.allthenewsgroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=66.82.9.53;
   posting-account=a7K0SA0AAADJhiRpuowwQAePXZnEQc8e
Xref: g2news2.google.com rec.radio.amateur.antenna:18871
rec.radio.amateur.equipment:6512 rec.radio.amateur.homebrew:7169
rec.radio.amateur.policy:47323 rec.radio.swap:7953


Mike little lamp wrote:
> "Slow Code" <my.mail@no.spam> wrote in message
> news:twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net...
> > Why are you people against having good hams?
>
> Go back to rec.radio.amateur.policy Lloyd.
no to hell would be better




From 5229787005200186043
X-Google-Thread: fc2a5,43d93348367a9ace
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!b1a104da!not-for-mail
Message-ID: <451C015F.312C9531@earthlink.net>
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Reply-To: mike.terrell@earthlink.net
Organization: http://home.earthlink.net/~mike.terrell/
X-Mailer: Mozilla 4.78 [en]C-CCK-MCD   (Win98; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: High Quality RF Connectors, Adapters & Cable Assemblies @ Low Cost
References: <h2ESg.895$La2.447@fed1read08>
<1159454493.485278.177110@b28g2000cwb.googlegroups.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 39
Date: Thu, 28 Sep 2006 17:08:42 GMT
NNTP-Posting-Host: 24.110.34.161
```

X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1159463322 24.110.34.161 (Thu, 28 Sep 2006 10:08:42 PDT)
NNTP-Posting-Date: Thu, 28 Sep 2006 10:08:42 PDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7170

K7ITM wrote:
>
> Others who are tired of seeing these ads: I suggest you all send email
> telling them that, to sales@aaarfproducts.com. You might mention that
> they are getting _negative_ word-of-mouth because of this practice.
>
> Cheers,
> Tom
>
> AAA RF Products wrote:
> > AAARFProducts.com
> >
> > Any 10 SMA Male to SMA Male cable assemblies for $99.00
> >
> > RG-58C/U or RG-223/U
> >
> > Mix & match any 10
> >
> > Length available: 12", 18", 24", 30", 36", 48", 60", 72", 84", & 96"
> >
> > High quality & made in USA
> >
> > Please visit
> > AAARFProducts.com

All that will do is get you abusive e-mails in return. Report them by forwarding the spam inline and with full headers to: abuse@cox.net and CC to: spam@uce.gov

--
Service to my country? Been there, Done that, and I've got my DD214 to prove it.
Member of DAV #85.

Michael A. Terrell
Central Florida

From -284421354530136114
X-Google-Thread: fcc6e,3946db13a1a563fc
X-Google-Thread: 108122,3946db13a1a563fc
X-Google-Thread: fc2a5,3946db13a1a563fc
X-Google-Thread: 10bf43,3946db13a1a563fc
X-Google-Thread: 1109af,3946db13a1a563fc

```
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 28 Sep 2006 13:14:46 -0500
Date: Thu, 28 Sep 2006 14:14:46 -0400
From: Dave <W1MCE@comcast.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.4) Gecko/20030624
Netscape/7.1 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy,rec.radio.swap
Subject: Re: CW not CB
References: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
<4nvtacFc77jhU1@individual.net>
<1159398320.388587.235320@b28g2000cwb.googlegroups.com>
<oaydnYisrsw5kYbYnZ2dnUVZ_rydnZ2d@comcast.com>
<451b0552$0$19695$88260bb3@free.teranews.com>
In-Reply-To: <451b0552$0$19695$88260bb3@free.teranews.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <25qdnRRVeYmKjIHYnZ2dnUVZ_tydnZ2d@comcast.com>
Lines: 19
NNTP-Posting-Host: 71.233.173.68
X-Trace: sv3-CubKdUpnrTLMTQ8G6O/69cfkeVbCl2aLHGwb4rNf/
QC+WMlibOednbQipB09yPWpqqP0uJLy+91ICyq!
y9begEPzG0Ecc93LLO+ErJTiJHizPiCyMmcu+5QS+Y5joxYdqTcWBHNCEI9PtJjICbkbBrr6fwNV!
c8+PxEXafShbpy0oz9gw
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.antenna:18874
rec.radio.amateur.equipment:6513 rec.radio.amateur.homebrew:7171
rec.radio.amateur.policy:47339 rec.radio.swap:7955

Mark Morgan wrote:

SNIPPED
>>
>>Is this un-readable USA english from a USA ham?
>>
>
> with the punce gotcha he wonders why I simple don't bother to ty
>  impoving my spelling do u hav anyting cognet two say?
>
>  my blog
>  http://www.marksspamblog.blogspot.com/
```

>
>
>
>

Do you? I can't read your version of 'inklyshe'

From -3071292778573551312
X-Google-Thread: fc2a5,841c6d3ae6f7cdaa,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-mail
From: "radiofreeq@gmail.com" <radiofreeq@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Input Bandwidth of an ADC.
Date: 28 Sep 2006 13:27:32 -0700
Organization: http://groups.google.com
Lines: 29
Message-ID: <1159475252.142155.154630@h48g2000cwc.googlegroups.com>
NNTP-Posting-Host: 70.91.208.121
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159475257 30569 127.0.0.1 (28 Sep 2006 20:27:37 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 28 Sep 2006 20:27:37 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h48g2000cwc.googlegroups.com; posting-host=70.91.208.121;
   posting-account=CBZFsw0AAABcS6uj9s-o_82YLIDSDVjI
Xref: g2news2.google.com rec.radio.amateur.homebrew:7172

Hello All,
I was going through an ADC tutorial and realized that they use the term input bandwidth more frequently as one of the important factors to be considered before choosing an ADC.

Based on my search, I found out that "the input bandwidth is something that determines the maximum bandwidth of an input signal that can be accurately sampled, regardless of the stated sample rate".

http://www.diamondsystems.com/slideshow.php3?name=ADBoardTutorial&page=4

I am not sure why is this input bandwidth different from Fs/2. From the above link, one of the example has Fs/4. Is it just because to increase more precision that we use a sampling frequency 4 times the bandwidth of the signal?

I assume for practical reasons, we oversample it but that is for more

precision (correct me) but the Nyquist criteria still holds good for
sampling the frequencies upto Fs/2. That means I can still get the
original signal. I am not sure about the accuracy though.

Also, can I say that if an ADC is oversampled 4 times the Nyquist rate
(Fs = 4*BW), then is my input frequency given by Fs/4? Assume single
channel case.
Correct me if I am wrong.

Thanks for your responses.

```
From -5144981062333549951
X-Google-Thread: fc2a5,841c6d3ae6f7cdaa
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 28 Sep 2006 15:42:15 -0500
Newsgroups: rec.radio.amateur.homebrew
From: Ben Jackson <ben@ben.com>
Subject: Re: Input Bandwidth of an ADC.
References: <1159475252.142155.154630@h48g2000cwc.googlegroups.com>
Message-ID: <slrnehoct7.2a5o.ben@saturn.home.ben.com>
User-Agent: slrn/0.9.8.0 (FreeBSD)
Date: Thu, 28 Sep 2006 15:42:15 -0500
Lines: 19
NNTP-Posting-Host: 67.189.64.253
X-Trace: sv3-
Ofp6SzhXF2QbKO40L5ZnWhNS5+WLY600UoCCGnyPjl7ucueKy4Wcz833rjqpn0ev59nfi1aWckfMmJG!
XAqJyrSk/0vXeRJgfbHlLXywlpuHuYE1vhW1a4yGaOvjW5f2T78inkzY6RSEcuCiODvfeJOfTLgi!0IPv
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7173
```

On 2006-09-28, radiofreeq@gmail.com <radiofreeq@gmail.com> wrote:
>
> I am not sure why is this input bandwidth different from Fs/2.

It's really two different bandwidths. Fs is determined by the bandwidth
of the signal. If you filter a 10MHz passband from a 1GHz signal, your
Fs calculation is based on the 10MHz of signal (if you choose to
undersample, which would clearly be to your advantage in a case like
this). However, since it's up at 1GHz, even though you might be able
to use a Fs > 20MHz, the ADC must have a sample and hold
bandwidth > 2GSps.

If your input signal has components from DC up to your desired signal,
then the two bandwidths are the same.

--
Ben Jackson AD7GD
<ben@ben.com>
http://www.ben.com/

From -8780384622837534813
X-Google-Thread: fcc6e,3946db13a1a563fc
X-Google-Thread: 108122,3946db13a1a563fc
X-Google-Thread: fc2a5,3946db13a1a563fc
X-Google-Thread: 10bf43,3946db13a1a563fc
X-Google-Thread: 1109af,3946db13a1a563fc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: CW not CB
From: Slow Code <my.mail@no.spam>
References: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
<XWiSg.15024$Ij.13307@newssvr14.news.prodigy.com>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 16
Message-ID: <SOYSg.3988$o71.1637@newsread3.news.pas.earthlink.net>
Date: Thu, 28 Sep 2006 23:22:26 GMT
NNTP-Posting-Host: 4.254.230.147
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1159485746 4.254.230.147 (Thu, 28 Sep
2006 16:22:26 PDT)
NNTP-Posting-Date: Thu, 28 Sep 2006 16:22:26 PDT
Xref: g2news2.google.com rec.radio.amateur.antenna:18884
rec.radio.amateur.equipment:6522 rec.radio.amateur.homebrew:7174
rec.radio.amateur.policy:47452 rec.radio.swap:7974

Cecil Moore <mycall@hotmail.com> wrote in
news:XWiSg.15024$Ij.13307@newssvr14.news.prodigy.com:

> Slow Code wrote:
>> Why are you people against having good hams?
>
> We're certainly are not against good hams. If code
> skill is representative of hams like you, we are
> against any other low-IQ-products-of-incest being
> allowed into this otherwise nice hobby.

Do you think discussions on repeaters are as technical today as they were
25 Years ago?

SC

```
From -2770122600668045946
X-Google-Thread: fcc6e,3946db13a1a563fc
X-Google-Thread: 108122,3946db13a1a563fc
X-Google-Thread: fc2a5,3946db13a1a563fc
X-Google-Thread: 10bf43,3946db13a1a563fc
X-Google-Thread: 1109af,3946db13a1a563fc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!b1a104da!not-for-mail
Message-ID: <451C6139.5C259EA6@earthlink.net>
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Reply-To: mike.terrell@earthlink.net
Organization: http://home.earthlink.net/~mike.terrell/
X-Mailer: Mozilla 4.78 [en]C-CCK-MCD   (Win98; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy,rec.radio.swap
Subject: Re: CW not CB
References: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
<XWiSg.15024$Ij.13307@newssvr14.news.prodigy.com>
<SOYSg.3988$o71.1637@newsread3.news.pas.earthlink.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 45
Date: Thu, 28 Sep 2006 23:57:25 GMT
NNTP-Posting-Host: 24.110.34.161
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1159487845 24.110.34.161 (Thu, 28 Sep
2006 16:57:25 PDT)
NNTP-Posting-Date: Thu, 28 Sep 2006 16:57:25 PDT
Xref: g2news2.google.com rec.radio.amateur.antenna:18889
rec.radio.amateur.equipment:6523 rec.radio.amateur.homebrew:7175
rec.radio.amateur.policy:47478 rec.radio.swap:7979
```

Slow Code wrote:
>
> Cecil Moore <mycall@hotmail.com> wrote in
> news:XWiSg.15024$Ij.13307@newssvr14.news.prodigy.com:
>
> > Slow Code wrote:
> >> Why are you people against having good hams?
> >

```
> > We're certainly are not against good hams. If code
> > skill is representative of hams like you, we are
> > against any other low-IQ-products-of-incest being
> > allowed into this otherwise nice hobby.
>
> Do you think discussions on repeaters are as technical today as they were
> 25 Years ago?
>
> SC


   25 years?  Probably about the same, since repeaters had been around
at least 10 years by then.  You could by a repeater over the counter
with tone squelch, and several other toys built in, so they were no more
complicated than a 2 meter handheld.  My high school Amateur radio club
built a two meter repeater of of Motorola and GE strips, homebrew powers
supplies, diplexer, and timers in the late '60s.  What is the big deal,
unless you have multiple sites and voting receivers?  We were just a
bunch of RF crazy teenagers with less than $50 to spend, and we wanted
to build a repeater. A few months later we were given a surplus WE Touch
TOne decoder module, and added a phone patch.

   Like everything else the club did, we raised the funds by repairing
old electronics and selling it to buy the parts we needed for the next
project.  the only new piece of equipment we ever purchases was a HW-16,
in kit form.  BTW, CW was the least used form of communications from the
club's station.  they could do that at home, but we had some nice
antennas, the two meter repeater, and several full coverage HF rigs.



--
Service to my country? Been there, Done that, and I've got my DD214 to
prove it.
Member of DAV #85.

Michael A. Terrell
Central Florida



From 3486671613004444818
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i3g2000cwc.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: ARRL "Homebrew Challenge" NOT about Operating Systems
Date: 28 Sep 2006 16:58:40 -0700
Organization: http://groups.google.com
Lines: 13
Message-ID: <1159487920.128972.214010@i3g2000cwc.googlegroups.com>
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
```

<VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
<ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
<__kRg.8194$tT6.613@bignews7.bellsouth.net>
<12hg3848dbaav69@corp.supernews.com>
<Pine.NEB.4.64.0609251354160.7978@panix3.panix.com>
NNTP-Posting-Host: 207.200.116.72
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159487925 2077 127.0.0.1 (28 Sep 2006 23:58:45 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 28 Sep 2006 23:58:45 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 spider-ntc-tc08.proxy.aol.com[CFC87128] (Prism/1.1.3), HTTP/1.1 cache-ntc-ab08.proxy.aol.com[CFC87448] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: i3g2000cwc.googlegroups.com; posting-host=207.200.116.72;
posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:7176

Folks, all this stuff about Operating Systems is interesting, but it
doesn't apply that much to this "Homebrew Challenge" insofar as
the radio part of the radio station specified in the contest.

For only $50 in New Part cost, what does everyone think about
for the actual RADIO hardware?

Just curious...I have no interest in that contest...just a curiosity
of what might come up in the next year.

LenAnderson@ieee.org

From -3918332128173997535
X-Google-Thread: fc2a5,841c6d3ae6f7cdaa
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news2.volia.net!newsfeed01.sul.t-online.de!newsfeed00.sul.t-online.de!t-online.de!newsfeed.freenet.de!border2.nntp.ams.giganews.com!nntp.giganews.com!sn-xt-ams-06!sn-xt-ams-03!sn-xt-ams-05!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Input Bandwidth of an ADC.
Date: Thu, 28 Sep 2006 18:37:56 -0700
Organization: EZNEC Antenna Software
Message-ID: <12hou7lmufluc1c@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0

References: <1159475252.142155.154630@h48g2000cwc.googlegroups.com>
In-Reply-To: <1159475252.142155.154630@h48g2000cwc.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 47
Xref: g2news2.google.com rec.radio.amateur.homebrew:7177

The Nyquist sample rate of Fs/2 is the minimum rate at which you can sample and theoretically recover the exact original signal. It's only theoretical, though, because recovery of the signal from the samples would require a perfect, "brick-wall" frequency response, flat phase response, low pass filter. Because we're stuck with using real filters, we have to sample at a considerably higher rate if we want to recover the original signal. Just how fast you have to sample depends on how good a filter you're willing to construct and how much distortion in the reconstructed signal you're willing to tolerate.

The bandwidth of an ADC can be limited by things other than the sampling characteristics, such as internal circuitry and packaging. For that matter, the distortion can also greatly exceed the amount determined only by quantization error.

Roy Lewallen, W7EL

radiofreeq@gmail.com wrote:
> Hello All,
> I was going through an ADC tutorial and realized that they use the term
> input bandwidth more frequently as one of the important factors to be
> considered before choosing an ADC.
>
> Based on my search, I found out that "the input bandwidth is something
> that determines the maximum bandwidth of an input signal that can be
> accurately sampled, regardless of the stated sample rate".
>
> http://www.diamondsystems.com/slideshow.php3?name=ADBoardTutorial&page=4
>
> I am not sure why is this input bandwidth different from Fs/2. From the
> above link, one of the example has Fs/4. Is it just because to increase
> more precision that we use a sampling frequency 4 times the bandwidth
> of the signal?
>
> I assume for practical reasons, we oversample it but that is for more
> precision (correct me) but the Nyquist criteria still holds good for
> sampling the frequencies upto Fs/2. That means I can still get the
> original signal. I am not sure about the accuracy though.
>
>
> Also, can I say that if an ADC is oversampled 4 times the Nyquist rate
> (Fs = 4*BW), then is my input frequency given by Fs/4? Assume single
> channel case.
> Correct me if I am wrong.
>

```
> Thanks for your responses.
>



From -1665045346360295187
X-Google-Thread: fcc6e,3946db13a1a563fc
X-Google-Thread: 108122,3946db13a1a563fc
X-Google-Thread: fc2a5,3946db13a1a563fc
X-Google-Thread: 10bf43,3946db13a1a563fc
X-Google-Thread: 1109af,3946db13a1a563fc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!newshub.sdsu.edu!nntpserver.com!zeus.nntpserver.com!
hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy,rec.radio.swap
Subject: Re: CW not CB
Date: Thu, 28 Sep 2006 22:05:29 -0400
Message-ID: <4gvoh2dcrjqm6bg6jn17dro6jucrvhnelq@4ax.com>
References: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
<XWiSg.15024$Ij.13307@newssvr14.news.prodigy.com>
<SOYSg.3988$o71.1637@newsread3.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 21
NNTP-Posting-Date: 29 Sep 2006 01:10:32 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:18900
rec.radio.amateur.equipment:6525 rec.radio.amateur.homebrew:7178
rec.radio.amateur.policy:47513 rec.radio.swap:7988

On Thu, 28 Sep 2006 23:22:26 GMT, Slow Code <my.mail@no.spam> wrote:

>Cecil Moore <mycall@hotmail.com> wrote in
>news:XWiSg.15024$Ij.13307@newssvr14.news.prodigy.com:
>
>> Slow Code wrote:
>>> Why are you people against having good hams?
>>
>> We're certainly are not against good hams. If code
>> skill is representative of hams like you, we are
>> against any other low-IQ-products-of-incest being
>> allowed into this otherwise nice hobby.
>
>
>Do you think discussions on repeaters are as technical today as they were
>25 Years ago?
no s suspect they are more thecnical at time then they were25 years
```

ago
>
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

```
From 1258395784309797474
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 28 Sep 2006 23:34:07 -0500
Newsgroups: rec.radio.amateur.homebrew
From: Ben Jackson <ben@ben.com>
Subject: Re: ARRL "Homebrew Challenge" NOT about Operating Systems
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
<VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
<ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
<__kRg.8194$tT6.613@bignews7.bellsouth.net> <12hg3848dbaav69@corp.supernews.com>
<Pine.NEB.4.64.0609251354160.7978@panix3.panix.com>
<1159487920.128972.214010@i3g2000cwc.googlegroups.com>
Message-ID: <slrnehp8hv.2i9m.ben@saturn.home.ben.com>
User-Agent: slrn/0.9.8.0 (FreeBSD)
Date: Thu, 28 Sep 2006 23:34:07 -0500
Lines: 23
NNTP-Posting-Host: 67.189.64.253
X-Trace: sv3-0j1mzZJb3dunAP4NyAzJYdbCyphiCqGqyxZfgtagEzqcDqB8gqx66cNhfLue/hiU0Zx/
+CtKfXZFswD!Al4nbh0z6z3xDsWQuFaVUEt0hf24/RnNj8Z6nPKDr+sDMjiPzSrnv2VtWrz/
V1EKCPPbOj+qMtPv!kcNZ
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7179
```

On 2006-09-28, LenAnderson@ieee.org <LenAnderson@ieee.org> wrote:
>
>   For only $50 in New Part cost, what does everyone think about
>   for the actual RADIO hardware?

Their goals of homebuildable and as cheap/functional as possible are in conflict. A starter homebrew design should be more modular, rely less on overloading of components for multiple purposes, include guidelines for substituting any expensive or rare part with found alternatives. It would not be concerned about requiring one of a part you can only readily get in bags of 10 or 20.

The cheapest possible starter 40M CW/SSB radio would probably be a kit,
not built from a collection of overpriced Radio Shack components. It
probably does a lot of work in the digital domain, without regard to
ease of modification. It's built on an etched PCB mass produced in
such quantities that it's cheaper than bare copper board at the local
electronics store.

--
Ben Jackson AD7GD
<ben@ben.com>
http://www.ben.com/

From -6532644680480332109
X-Google-Thread: fc2a5,7d2662b1832e8899
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.tele.dk!feed118.news.tele.dk!news.tele.dk!small.news.tele.dk!newsfeed1.swip.net!swipnet!newsfeed.sunet.se!news01.sunet.se!erinews.ericsson.se!news.al.sw.ericsson.se!not-for-mail
From: "Harry Lethall" <oeieio@NOSPAAM.hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HHH Update
Date: Fri, 29 Sep 2006 11:15:16 +0200
Organization: Ericsson
Lines: 55
Message-ID: <efio74$sfr$1@news.al.sw.ericsson.se>
References: <efdu2m$kf1$1@news.al.sw.ericsson.se>
<1159406384.485928.232760@b28g2000cwb.googlegroups.com>
NNTP-Posting-Host: eh734003ct91qfe.ki.sw.ericsson.se
X-Trace: news.al.sw.ericsson.se 1159521316 29179 147.214.159.221 (29 Sep 2006 09:15:16 GMT)
X-Complaints-To: abuse@ericsson.se
NNTP-Posting-Date: Fri, 29 Sep 2006 09:15:16 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Xref: g2news2.google.com rec.radio.amateur.homebrew:7180

Oh yes, I do intend to keep it up.
I am in the middle of building a TV transmitter with HB tuning caps built on
the PCB, but it is the modulator that is giving me a bit of a problem.

BR H

> > Hi all,
> > I have had a bit of a busy half-year, with sickness in the family and
the
> > like. But I have managed to add a few new projects that could be of

```
interest
> > to my homepages on http://web.telia.com/~u85920178
> >
> > Have you ever wondered how these old IF-cans can be re-used? I have two
> > different articles dedicated to them:
> > http://web.telia.com/~u85920178/begin/cans-0.htm (reusing IF cans)
> > http://web.telia.com/~u85920178/rx/tda7k-rx2.htm (TDA7000 for NBFM)
> > http://web.telia.com/~u85920178/blocks/if-txfmr_tube_00.htm (Making your
> > own)
> >
> > Last month someone asked me how I choose values for components, but "Can
you
> > add calculations". Ok, I did it, with a few over-simplifications, and
for a
> > crude project:
> > http://web.telia.com/~u85920178/begin/bug_calc.htm (FM Wireless
Microphone)
> > http://web.telia.com/~u85920178/begin/calc-00.htm (Includes loads of
useful
> > calculators)
> >
> > Earlier int he year I needed to throw together s quick VHF antenna for
> > 446MHz, 432MHz, and again for 145MHz. When I had to do it for 105MHz I
> > created this project:
> > http://web.telia.com/~u85920178/antennas/vpole0.htm (15-minute +2.5dBd
> > antenna)
> >
> > Where did those multi-gang tuning capacitors go? I needed one, so I
etched
> > it on a PCB, cheap:
> > http://web.telia.com/~u85920178/use/tuning_caps.htm (multi-gang - for
> > HF/VHF)
> > http://web.telia.com/~u85920178/use/tuning_caps2.htm (PCB Preset
capacitor)
>
>    Hejsan, "Lethall Harry!"  :-)
>
>    Excellent new pages on your website.  The two on homemade
>    tuning capacitors is very good.  Keep it up, please, should be of
>    help to many hobbyists, not just licensed radio amateurs.
>
>    LenAnderson@ieee.org
>




From 6060759438464720660
X-Google-Thread: fc2a5,7d2662b1832e8899
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!
```

```
newsfeed01.sul.t-online.de!t-online.de!newsfeed.cw.net!cw.net!news-FFM2.ecrc.de!
news.net.uni-c.dk!newsfeed.sunet.se!news01.sunet.se!erinews.ericsson.se!
news.al.sw.ericsson.se!not-for-mail
From: "Harry Lethall" <oeieio@NOSPAAM.hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HHH Update
Date: Fri, 29 Sep 2006 11:13:56 +0200
Organization: Ericsson
Lines: 23
Message-ID: <efio4k$sb3$1@news.al.sw.ericsson.se>
References: <efdu2m$kf1$1@news.al.sw.ericsson.se>
<7kdlh2dp1l9cqub33v9bf0sv4kebo4nr2t@4ax.com>
NNTP-Posting-Host: eh734003ct91qfe.ki.sw.ericsson.se
X-Trace: news.al.sw.ericsson.se 1159521236 29027 147.214.159.221 (29 Sep 2006
09:13:56 GMT)
X-Complaints-To: abuse@ericsson.se
NNTP-Posting-Date: Fri, 29 Sep 2006 09:13:56 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Xref: g2news2.google.com rec.radio.amateur.homebrew:7181

I have received the mail, and I shall reply to it shortly - very interesting
views: needs some thought :-)

Nice change to get some "inteligent" mail for a change. Usually I get 90%
SPAM, and of the rest it is 80% "I want" or 20% "I wanna complain".

> >I have had a bit of a busy half-year, ...ad a few new projects that could
be of interest
> >to my homepages on http://web.telia.com/~u85920178
>
> >http://web.telia.com/~u85920178/rx/tda7k-rx2.htm (TDA7000 for NBFM)
>
> >Best regards Harry
>
> I like when someone fiddles with that TDA7000 chip :-))
> I did it time ago too ! :-)) ... you will get mail ! :-)
>
> --
>                  Regards ,  SPAJKY �
>    mail addr. @ my site @ http://www.spajky.vze.com
>    4y - "Tualatin OC-ed / BX-Slot1 / inaudible setup!"




From 7022358507854512359
X-Google-Thread: fc2a5,5b25eae06a653367,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!
```

feeder2.news.jippii.net!reader1.news.jippii.net!53ab2750!not-for-mail
From: Ceriel Nosforit <ceriel@googlemail.com>
Organization: Guerilla Computing
Subject: VLF from the amp
User-Agent: Pan/0.14.2 (This is not a psychotic episode. It's a cleansing moment of clarity.)
Message-Id: <pan.2006.09.29.13.05.21.718750@googlemail.com>
Newsgroups: rec.radio.amateur.homebrew
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 11
Date: Fri, 29 Sep 2006 16:05:21 +0300
NNTP-Posting-Host: 80.186.143.149
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.jippii.net 1159535121 80.186.143.149 (Fri, 29 Sep 2006 16:05:21 EEST)
NNTP-Posting-Date: Fri, 29 Sep 2006 16:05:21 EEST
Xref: g2news2.google.com rec.radio.amateur.homebrew:7182

Hey all,

I read about people using their sound card to catch transmissions
from dedicated senders such as SAQ by just hooking a roll of wire to the
mic-in and apparently finding some success in this. This got my wondering,
what aside from laws and fines is stopping me from hooking my 80W
stereo amp up to some sort of antenna for global transmission fun?
Somebody must have thought of this before...

--
Nos

From -7100053552156966625
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!multikabel.net!feed20.multikabel.net!news.tele.dk!news.tele.dk!small.news.tele.dk!sn-xt-sjc-02!sn-xt-sjc-06!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Max Headroom <Max.Headroom@nogotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VLF from the amp
Date: Fri, 29 Sep 2006 14:38:17 -0000
Organization: Arrl.org
Message-ID: <12hqbupibfvi381@corp.supernews.com>
X-Newsreader: Mozilla/3.0 (x86 [en] Windows NT 5.1;)
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
X-Complaints-To: abuse@supernews.com
Lines: 16
Xref: g2news2.google.com rec.radio.amateur.homebrew:7183

Ceriel Nosforit wrote:

> I read about people using their sound card to catch transmissions
> from dedicated senders such as SAQ by just hooking a roll of wire to the
> mic-in and apparently finding some success in this. This got my wondering,
> what aside from laws and fines is stopping me from hooking my 80W
> stereo amp up to some sort of antenna for global transmission fun?
> Somebody must have thought of this before...
>

It's cheaper to use your car alternator as an LO.
Upconvert by using the transmission as a mixer
and the gear shift knob as a band selector.
FM by riding up or down steep hills in a 2-cylinder Citroen.

From -602185430901838963
X-Google-Thread: fc2a5,43d93348367a9ace
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!feeder.news-service.com!news2.euro.net!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-03!sn-xt-ams-05!sn-post-ams-02!sn-post-sjc-01!supernews.com!news.supernews.com!not-for-mail
From: yankeeinexile@gmail.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: High Quality RF Connectors, Adapters & Cable Assemblies @ Low Cost
Date: 29 Sep 2006 09:38:56 -0500
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <87psdelou7.fsf@gmail.com>
Sender: lawrence@hummer
References: <h2ESg.895$La2.447@fed1read08>
<1159454493.485278.177110@b28g2000cwb.googlegroups.com>
User-Agent: Gnus/5.09 (Gnus v5.9.0) Emacs/21.1
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
X-Complaints-To: abuse@supernews.com
Lines: 17
Xref: g2news2.google.com rec.radio.amateur.homebrew:7184

"K7ITM" <k7itm@msn.com> writes:
> Others who are tired of seeing these ads: I suggest you all send email
> telling them that, to sales@aaarfproducts.com. You might mention that
> they are getting _negative_ word-of-mouth because of this practice.
>
> Cheers,
> Tom
>

Better yet, fax them copies of invoices of connector purchases from
competitors. Telling them "I'm not buying your product" means
nothing. Telling them "Because I hate your advertising, I am buying
your COMPETITOR'S products" means more.

73
N1GAK

From -6850079785308381658
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!koehntopp.de!
newsfeed01.sul.t-online.de!t-online.de!newsfeed.cw.net!cw.net!news-FFM2.ecrc.de!
skynet.be!newsfeed1.funet.fi!newsfeeds.funet.fi!feeder1.news.jippii.net!
reader1.news.jippii.net!53ab2750!not-for-mail
From: Ceriel Nosforit <ceriel@googlemail.com>
Organization: Guerilla Computing
Subject: Re: VLF from the amp
User-Agent: Pan/0.14.2 (This is not a psychotic episode. It's a cleansing moment of clarity.)
Message-ID: <pan.2006.09.29.15.10.10.62500@googlemail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
<12hqbupibfvi381@corp.supernews.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 17
Date: Fri, 29 Sep 2006 18:10:10 +0300
NNTP-Posting-Host: 80.186.143.149
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.jippii.net 1159542610 80.186.143.149 (Fri, 29 Sep 2006 18:10:10 EEST)
NNTP-Posting-Date: Fri, 29 Sep 2006 18:10:10 EEST
Xref: g2news2.google.com rec.radio.amateur.homebrew:7185

On Fri, 29 Sep 2006 14:38:17 +0000, Max Headroom wrote:

> Ceriel Nosforit wrote:

<snip>

> It's cheaper to use your car alternator as an LO.
> Upconvert by using the transmission as a mixer
> and the gear shift knob as a band selector.
> FM by riding up or down steep hills in a 2-cylinder Citroen.

Now that would be something. DX licence or driver's licence? Hehe.

Too bad I don't have a car. ;)

--
Nos

```
From -2497758404656672284
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i42g2000cwa.googlegroups.com!not-for-
mail
From: "MadEngineer" <glenn.b.dixon@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL "Homebrew Challenge" NOT about Operating Systems
Date: 29 Sep 2006 08:15:16 -0700
Organization: http://groups.google.com
Lines: 35
Message-ID: <1159542916.364976.4800@i42g2000cwa.googlegroups.com>
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
   <VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
   <ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
   <__kRg.8194$tT6.613@bignews7.bellsouth.net>
   <12hg3848dbaav69@corp.supernews.com>
   <Pine.NEB.4.64.0609251354160.7978@panix3.panix.com>
   <1159487920.128972.214010@i3g2000cwc.googlegroups.com>
   <slrnehp8hv.2i9m.ben@saturn.home.ben.com>
NNTP-Posting-Host: 208.177.146.102
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159542921 29851 127.0.0.1 (29 Sep 2006 15:15:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 29 Sep 2006 15:15:21 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i42g2000cwa.googlegroups.com; posting-host=208.177.146.102;
   posting-account=EvBMNw0AAABX-Et6w0086s4DXqrY-API
Xref: g2news2.google.com rec.radio.amateur.homebrew:7186
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Ben Jackson wrote:

> The cheapest possible starter 40M CW/SSB radio would probably be a kit,
> not built from a collection of overpriced Radio Shack components. It
> probably does a lot of work in the digital domain, without regard to
> ease of modification. It's built on an etched PCB mass produced in
> such quantities that it's cheaper than bare copper board at the local
> electronics store.
>

I agree, but I also think many will rise to the challenge, even though the prize is modest. Look for some very clever things--mostly done with IQ phasing techniques. I personally plan to enter with something, and suspect others on this list will as well. Also expect an even better project to follow that builds on all the best from the contest...I'm most interested to see what sort of frequency synthesizers/VFOs come out of this. I'm personally hoping ARRL gets enough entries that they can publish a book or something, and am hoping this will inspire some wonderful new kits and other things for newbies.

My design will not use IQ, will have a DSP (probably one of the
Microchip 30F4013s in a DIP pkg), but I haven't found/invented a VFO
scheme I really like yet (yes, I know the contest allows you to be
rockbound, but I'm shooting a little higher). I'll try to set up a
brag page and post progress.

I appreciate the time given for this contest--even with very spare time
people should be able to do something. I suspect ARRL's lab will have
their hands full testing everything that comes in (maybe they will
only test the finalists).

What fun!

73,
Glenn Dixon AC7ZN

```
From 6697853387550394743
X-Google-Thread: fc2a5,841c6d3ae6f7cdaa
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
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ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 29 Sep 2006 10:23:06 -0500
Date: Fri, 29 Sep 2006 08:23:14 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Input Bandwidth of an ADC.
References: <1159475252.142155.154630@h48g2000cwc.googlegroups.com>
In-Reply-To: <1159475252.142155.154630@h48g2000cwc.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
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Message-ID: <87SdnT8t8tfHp4DYnZ2dnUVZ_sGdnZ2d@web-ster.com>
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PCB0zxvQM6OhQ1AgH+3xpHZHdLNrhpCfR7/u!yKDef05CdcxnAnp5
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7187
```

radiofreeq@gmail.com wrote:

> Hello All,
> I was going through an ADC tutorial and realized that they use the term input bandwidth more frequently as one of the important factors to be considered before choosing an ADC.
>
> Based on my search, I found out that "the input bandwidth is something that determines the maximum bandwidth of an input signal that can be accurately sampled, regardless of the stated sample rate".
>
> http://www.diamondsystems.com/slideshow.php3?name=ADBoardTutorial&page=4
>
> I am not sure why is this input bandwidth different from Fs/2. From the above link, one of the example has Fs/4. Is it just because to increase more precision that we use a sampling frequency 4 times the bandwidth of the signal?

They are different because they are two completely different things.

In a successive approximation or flash ADC the signal sampling happens over a very brief window, so aliasing happens over a very wide band. This means(for instance) that you could sample a signal at 10.25 times the sample rate of the ADC and have it come out at 0.25 Fs, assuming that your sampling jitter is small enough and your signal is intact going into the sampler at that frequency.

The input bandwidth of the ADC is just the bandwidth of the ADCs circuitry leading up to the sampling stage. In principal it could be just about anything. In practice SAR and flash ADC's have relatively wide input bandwidths, while sigma-delta and slope converters have input bandwidths closely matched to the sampling rate.

>
> I assume for practical reasons, we oversample it but that is for more precision (correct me) but the Nyquist criteria still holds good for sampling the frequencies upto Fs/2. That means I can still get the original signal. I am not sure about the accuracy though.
>

Theoretically the Nyquist criteria holds up to Fs/2. Practically you need to oversample at much greater frequencies than that, or sweat blood on your anti-alias filters.

>
> Also, can I say that if an ADC is oversampled 4 times the Nyquist rate (Fs = 4*BW), then is my input frequency given by Fs/4? Assume single channel case.

You can say that your bandwidth is given by Fs/4. Your input frequency depends on the characteristics of your input signal, which may be quite different from the characteristics of your input filter.

> Correct me if I am wrong.
>
> Thanks for your responses.

>

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google? See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html

From 3230634737198613291
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VLF from the amp
Date: Fri, 29 Sep 2006 08:36:12 -0700
Message-ID: <e7fqh2hvvmum7rigqhl3g56pdbd0kt8mep@4ax.com>
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
X-Newsreader: Forte Agent 4.0/32.1069
MIME-Version: 1.0
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Content-Transfer-Encoding: 7bit
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X-Trace: newsfeed.slurp.net 1159531346 66.52.61.99 (29 Sep 2006 07:02:26 -0500)
Lines: 16
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X-Original-NNTP-Posting-Host: 66.52.61.99
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cox.net!hwmnpeer01.phx!news.highwinds-media.com!newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:7188

ORIGINAL MESSAGE:

On Fri, 29 Sep 2006 16:05:21 +0300, Ceriel Nosforit
 <ceriel@googlemail.com> wrote:

>what aside from laws and fines is stopping me from hooking my 80W
>stereo amp up to some sort of antenna for global transmission fun?

------------ REPLY FOLLOWS ------------

What is stopping you?

Well, the laws of physics for one, but you're welcome to give it a
try. You'll find enforcement of those laws is pretty strict. :-)

```
Bill, W6WRT


From 8065029066787688659
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!130.59.10.21.MISMATCH!
kanaga.switch.ch!switch.ch!newsfeed2.funet.fi!newsfeed1.funet.fi!
newsfeeds.funet.fi!feeder1.news.jippii.net!reader1.news.jippii.net!53ab2750!not-
for-mail
From: Ceriel Nosforit <ceriel@googlemail.com>
Organization: Guerilla Computing
Subject: Re: VLF from the amp
User-Agent: Pan/0.14.2 (This is not a psychotic episode. It's a cleansing moment
of clarity.)
Message-ID: <pan.2006.09.29.21.12.09.921875@googlemail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
<e7fqh2hvvmum7rigqhl3g56pdbd0kt8mep@4ax.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 30
Date: Sat, 30 Sep 2006 00:12:10 +0300
NNTP-Posting-Host: 80.186.143.149
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.jippii.net 1159564330 80.186.143.149 (Sat, 30 Sep 2006
00:12:10 EEST)
NNTP-Posting-Date: Sat, 30 Sep 2006 00:12:10 EEST
Xref: g2news2.google.com rec.radio.amateur.homebrew:7189

On Fri, 29 Sep 2006 08:36:12 -0700, Bill Turner wrote:

> ORIGINAL MESSAGE:
>
> On Fri, 29 Sep 2006 16:05:21 +0300, Ceriel Nosforit
>  <ceriel@googlemail.com> wrote:
>
>>what aside from laws and fines is stopping me from hooking my 80W
>>stereo amp up to some sort of antenna for global transmission fun?
>
> ------------ REPLY FOLLOWS ------------
>
> What is stopping you?
>
> Well, the laws of physics for one, but you're welcome to give it a
> try. You'll find enforcement of those laws is pretty strict. :-)
>
> Bill, W6WRT

Hehe. Well yeah, I figured as much, but why doesn't it work? Too high
```

impendance? Why is that something the amp can't handle, if I maybe resist
the urge to crank it up to eleven?

I'm approaching the issue from the engineering perspective, but I don't
have much knowledge in this particular field. If you can enlighten me I'd
be much obliged. ;)

--
Nos

From 5505716996541294149
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!sn-xt-sjc-04!sn-xt-sjc-06!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VLF from the amp
Date: Fri, 29 Sep 2006 14:40:26 -0700
Organization: EZNEC Antenna Software
Message-ID: <12hr4mdog38ahc7@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
<e7fqh2hvvmum7rigqhl3g56pdbd0kt8mep@4ax.com>
<pan.2006.09.29.21.12.09.921875@googlemail.com>
In-Reply-To: <pan.2006.09.29.21.12.09.921875@googlemail.com>
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Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 23
Xref: g2news2.google.com rec.radio.amateur.homebrew:7190

Ceriel Nosforit wrote:
>
> Hehe. Well yeah, I figured as much, but why doesn't it work? Too high
> impendance? Why is that something the amp can't handle, if I maybe resist
> the urge to crank it up to eleven?
>
> I'm approaching the issue from the engineering perspective, but I don't
> have much knowledge in this particular field. If you can enlighten me I'd
> be much obliged. ;)

Engineering is the application of physics. An "engineering perspective"
is one that starts from knowledge of the basic physical principles
involved, and uses mathematics along with that knowledge to produce a
design or solve a problem. I've seen no evidence of either in your
approach. Whatever you're doing, it's certainly not engineering.

The main problem with what you propose is that the electromagnetic field you create with the amplifier will be small to begin with, and it will be attenuated rapidly with distance for a number of physical reasons. But don't take my word for it. Crank that dude up, and don't stop at 11. Broadcast your telephone number and wait for the phone to ring.

Roy Lewallen, P.E., W7EL

From -1443365034069858859
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!
feeder2.news.jippii.net!reader1.news.jippii.net!53ab2750!not-for-mail
From: Ceriel Nosforit <ceriel@googlemail.com>
Organization: Guerilla Computing
Subject: Re: VLF from the amp
User-Agent: Pan/0.14.2 (This is not a psychotic episode. It's a cleansing moment of clarity.)
Message-Id: <pan.2006.09.29.23.25.46.218750@googlemail.com>
Newsgroups: rec.radio.amateur.homebrew
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
<e7fqh2hvvmum7rigqhl3g56pdbd0kt8mep@4ax.com>
<pan.2006.09.29.21.12.09.921875@googlemail.com>
<12hr4mdog38ahc7@corp.supernews.com>
MIME-Version: 1.0
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Content-Transfer-Encoding: 8bit
Lines: 45
Date: Sat, 30 Sep 2006 02:25:46 +0300
NNTP-Posting-Host: 80.186.143.149
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.jippii.net 1159572346 80.186.143.149 (Sat, 30 Sep 2006 02:25:46 EEST)
NNTP-Posting-Date: Sat, 30 Sep 2006 02:25:46 EEST
Xref: g2news2.google.com rec.radio.amateur.homebrew:7191

On Fri, 29 Sep 2006 14:40:26 -0700, Roy Lewallen wrote:

> Ceriel Nosforit wrote:
>>
>> Hehe. Well yeah, I figured as much, but why doesn't it work? Too high impendance? Why is that something the amp can't handle, if I maybe resist the urge to crank it up to eleven?
>>
>> I'm approaching the issue from the engineering perspective, but I don't have much knowledge in this particular field. If you can enlighten me I'd be much obliged. ;)
>
> Engineering is the application of physics. An "engineering perspective" is one that starts from knowledge of the basic physical principles involved, and uses mathematics along with that knowledge to produce a

> design or solve a problem. I've seen no evidence of either in your
> approach. Whatever you're doing, it's certainly not engineering.
>
> The main problem with what you propose is that the electromagnetic field
> you create with the amplifier will be small to begin with, and it will
> be attenuated rapidly with distance for a number of physical reasons.
> But don't take my word for it. Crank that dude up, and don't stop at 11.
> Broadcast your telephone number and wait for the phone to ring.
>
> Roy Lewallen, P.E., W7EL

Hm. I was a student of IT on a polytechnic... The basic state of mind one needed there was that we don't need to know all the facts by heart, but we must know where to find them.
In this case through a few degrees of separation I had specs which say that it doesn't need to be efficient; it only needs to work. Then when I have it working I can begin identifying bottlenecks and come up with ways to widen them.

Good info on magnetic field strength there, thank you. It gives me a good idea of where to start looking and comparing.

I'm not going to experiment just yet since I'm not a radio amateur, though I'm vying for a licence. The radio-regulatory authorities here in Finland don't have much to do, so I'm not going to give them a reason to hunt me down. :o)

--
Nos

```
From -5112865836236963944
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
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newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-02!sn-xt-sjc-01!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VLF from the amp
Date: Fri, 29 Sep 2006 17:13:28 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12hrdl9f7ofja28@corp.supernews.com>
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
<e7fqh2hvvmum7rigqhl3g56pdbd0kt8mep@4ax.com>
<pan.2006.09.29.21.12.09.921875@googlemail.com>
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X-RFC2646: Format=Flowed; Original
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X-Complaints-To: abuse@supernews.com
Lines: 31
Xref: g2news2.google.com rec.radio.amateur.homebrew:7192

"Ceriel Nosforit" <ceriel@googlemail.com> wrote in message
news:pan.2006.09.29.21.12.09.921875@googlemail.com...

> Hehe. Well yeah, I figured as much, but why doesn't it work? Too high impendance? Why is that something the amp can't handle, if I maybe resist the urge to crank it up to eleven?

No. The problem is that wavelength of a, say, 10kHz signal is 3km in free space. You need to have an antenna that's a decent fraction of that length for the antenna to look "distributed" enough (that is, the phase of your 10kHz signal at the far end of the wire is significantly different than that at the near end) in your to start getting any radiation. You can go through the math for all this -- look up the input impedance of a short dipole on Google -- and you'll find that the radiation resistance of a reasonable length speaker wire is probably going to be in the milliohms, yet the finite (real) resistance of the wire is going to be 10-1000 times as much, and the reactance will be as well. Hence, all three parameters are against you: The high reactance will keep the amps from being able to put much power into the cable in the first place, and of what does get there, the vast majority will be eaten up as heat rather than radiating.

To make matching tenable (so that you can actually get power into the cable), you need a *very* long wire. To make things efficient, you need low loss conductors -- nice, thick metal rods. Hence, doing a good job becomes rather spendy, and thus you don't see that many people outside of the military building VLF systems.

I think I'd almost suggest trying something like a 1.3GHz moonbounce system prior to building your own VLF transmitter...

From 1874476232910867407
X-Google-Thread: fc8b1,3d4f9e9fe4ad5427,start
X-Google-Thread: 108122,3d4f9e9fe4ad5427,start
X-Google-Thread: fc2a5,3d4f9e9fe4ad5427,start
X-Google-Thread: 10bf43,3d4f9e9fe4ad5427,start
X-Google-Thread: 106d41,7ccd68f480071000
X-Google-Attributes: gidfc8b1,gid108122,gidfc2a5,gid10bf43,gid106d41,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone.austin.rr.com!news.rr.com!tornado.texas.rr.com.POSTED!53ab2750!not-for-mail
From: "U-Know-Who" <no-one@nowhere.com>
Newsgroups:
rec.radio.amateur,rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.cb
References: <W9%Sg.1297$DU3.483@tornado.texas.rr.com>

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Subject: Re: Look at what Griffey thinks his amp will do...
Lines: 10
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Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5644
rec.radio.amateur.equipment:6533 rec.radio.amateur.homebrew:7193
rec.radio.amateur.policy:47742 rec.radio.cb:20235


"U-Know-Who" <no-one@nowhere.com> wrote in message
news:W9%Sg.1297$DU3.483@tornado.texas.rr.com...
>
> 516 watts PEP, huh? You are ignorant.
>
> http://www.telstar-electronics.com/SkyWave%202879AB.pdf
>




From -4649019421017457668
X-Google-Thread: 108122,3d4f9e9fe4ad5427
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From: "an old friend" <kb9rqz@hotmail.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,re
c.radio.cb
Subject: Re: Look at what Griffey thinks his amp will do...
Followup-To: ,rec.radio.cb
Date: 29 Sep 2006 18:06:57 -0700
Organization: http://groups.google.com
Lines: 5
Message-ID: <1159578417.041444.102200@i3g2000cwc.googlegroups.com>
References: <W9%Sg.1297$DU3.483@tornado.texas.rr.com>
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Complaints-To: groups-abuse@google.com
Injection-Info: i3g2000cwc.googlegroups.com; posting-host=66.82.9.90;
   posting-account=u4IZrA0AAAAnZJmD4DLlWGiEpMGb--6i
Xref: g2news2.google.com rec.radio.amateur.equipment:6534 rec.radio.amateur.homebrew:7194 rec.radio.amateur.policy:47772 rec.radio.cb:20236

U-Know-Who wrote:
> "U-Know-Who" <no-one@nowhere.com> wrote in message
>
tomm way are you enaged in more of the crossposting you claim to hate

From -4529342959895240159
X-Google-Thread: fc2a5,122ad4d33e7c8b88,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!c28g2000cwb.googlegroups.com!not-for-mail
From: "Gary, WB9JPS" <gwj@spamcop.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Help calibrating a noise source
Date: 29 Sep 2006 19:26:00 -0700
Organization: http://groups.google.com
Lines: 23
Message-ID: <1159583160.221099.124060@c28g2000cwb.googlegroups.com>
NNTP-Posting-Host: 75.24.105.180
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159583165 29466 127.0.0.1 (30 Sep 2006 02:26:05 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 30 Sep 2006 02:26:05 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Macintosh; U; PPC Mac OS X; en) AppleWebKit/312.8 (KHTML, like Gecko) Safari/312.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: c28g2000cwb.googlegroups.com; posting-host=75.24.105.180;
   posting-account=uP7Xbw0AAABx8hGrRMW1WXKeYaBys7Tj
Xref: g2news2.google.com rec.radio.amateur.homebrew:7195

I built a noise source as described by Bill Sabin, W0IYH in QST (1995)
and EMRFD. Works fine, but now it's time for calibration. Chatting with
Bill, he reinforces the notion that the best way to go is comparison
with another calibrated source, or a direct measurement with a

calibrated noise figure test set. NoiseCom used to provide this service
to hams for <$50, but now they claim they have dropped that offer (it's
about $600, now). So my question is, is there anyone in the SF Bay
Area (I live in Livermore) who might be able to help? If someone owns a
source or test set, perhaps we could get together. I'm open to other
suggestions, too.

FYI, this is primarily for testing HF rcvr performance. I'm building an
R2-style DC rcvr, and it's turned into a nice research and education
project, so I go a bit overboard sometimes, but it sure is fun. I'm
also using an IQPro DDS VFO. I wrote a couple reports on its
performance that are up on the AA0ZZ website.

This is my first post to this group. There seem to be a lot of talented
folks lurking out there... Thanks in advance for any help.

73,
Gary, WB9JPS

From -1678268629249156127
X-Google-Thread: fc8b1,e59519db1b4a40eb,start
X-Google-Thread: 108122,e59519db1b4a40eb,start
X-Google-Thread: fc2a5,e59519db1b4a40eb,start
X-Google-Thread: 10bf43,e59519db1b4a40eb,start
X-Google-Thread: 106d41,e59519db1b4a40eb,start
X-Google-Attributes: gidfc8b1,gid108122,gidfc2a5,gid10bf43,gid106d41,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone.austin.rr.com!news.rr.com!
tornado.texas.rr.com.POSTED!53ab2750!not-for-mail
From: "U-Know-Who" <no-one@nowhere.com>
Newsgroups:
rec.radio.amateur,rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.ra
dio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.cb
Subject: Griffey changes his mind...derates to 322 watts PEP
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <8FkTg.3291$DU3.2720@tornado.texas.rr.com>
Date: Sat, 30 Sep 2006 02:30:28 GMT
NNTP-Posting-Host: 67.10.92.242
X-Complaints-To: abuse@rr.com
X-Trace: tornado.texas.rr.com 1159583428 67.10.92.242 (Fri, 29 Sep 2006 21:30:28
CDT)
NNTP-Posting-Date: Fri, 29 Sep 2006 21:30:28 CDT
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5650
rec.radio.amateur.equipment:6535 rec.radio.amateur.homebrew:7196

rec.radio.amateur.policy:47787 rec.radio.cb:20240

Possible, but with more distortion (oops, he calls it compression) than he claims.

http://www.telstar-electronics.com/SkyWave%202879AB.pdf

Now was that all so hard, Brian? Did you peruse some websites to rethink your internet theories? "LOL"

From 2060190822761821379
X-Google-Thread: fc2a5,122ad4d33e7c8b88
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-xfer.nntp.sonic.net!posts.news.sonic.net!nnrp0.nntp.sonic.net!not-for-mail
From: Rex <me@hutmail.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Help calibrating a noise source
Date: Fri, 29 Sep 2006 20:04:32 -0700
Message-ID: <gcnrh25fmsv8h9vkf0jgspso6j3h124c5k@4ax.com>
References: <1159583160.221099.124060@c28g2000cwb.googlegroups.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 12
Organization: Sonic.Net
NNTP-Posting-Date: 30 Sep 2006 03:03:09 GMT
NNTP-Posting-Host: 17091d12.news.sonic.net
X-Trace: DXC=>Q:gb4LidFJc5a=3g4R]F@m4K\QM1CV^@1OYf0H`?;XAY1WDX`@eRaOIK2Tb[ic:DA7HGBgH`eUANVc9=<oX^o:J
X-Complaints-To: abuse@sonic.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:7197

On 29 Sep 2006 19:26:00 -0700, "Gary, WB9JPS" <gwj@spamcop.net> wrote:

>FYI, this is primarily for testing HF rcvr performance.

<sarcasm>
I'm not sure, but at HF, can't you get a reasonable noise performance measurement by pushing the radio off the bench and using a Radio Shack sound level meter?
</sarcasm>

Sorry.

```
From 334240511337752829
X-Google-Thread: fc2a5,b26945ffcde61aca,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: GERMAN,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.nask.pl!
news.nask.org.pl!lublin.pl!news.lublin.pl!not-for-mail
From: C5hFL@IDWlZZt.com (J5NnuBPDNy)
Newsgroups: rec.radio.amateur.homebrew
Subject: J5NnuBPDNy
Date: Sat, 30 Sep 2006 03:13:03 +0000 (UTC)
Organization: not organized
Lines: 2
Message-ID: <efknbv$vft$1@news.lublin.pl>
NNTP-Posting-Host: eter.ariadna.cd
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-15
Content-Transfer-Encoding: 8bit
X-Trace: news.lublin.pl 1159585983 32253 212.182.111.250 (30 Sep 2006 03:13:03
GMT)
X-Complaints-To: abuse@news.lublin.pl
NNTP-Posting-Date: Sat, 30 Sep 2006 03:13:03 +0000 (UTC)
User-Agent: NewsPortal 0.24pre9, http://florian-amrhein.de/newsportal/
X-HTTP-Posting-Host: rev-63-99-92-8.sptc.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:7198

aKirOTsneTKSW s1GpMBiqwG MlfryIxFDp




From -4093923830025662054
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news2.volia.net!news.banetele.no!uio.no!
newsfeed1.funet.fi!newsfeeds.funet.fi!nntp.inet.fi!inet.fi!
feeder1.news.jippii.net!reader1.news.jippii.net!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VLF from the amp
Message-ID: <pi4sh2l4tar5e46m0872nhadvfcsuif3mg@4ax.com>
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
<e7fqh2hvvmum7rigqhl3g56pdbd0kt8mep@4ax.com>
<pan.2006.09.29.21.12.09.921875@googlemail.com>
<12hrdl9f7ofja28@corp.supernews.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 11
Date: Sat, 30 Sep 2006 09:56:12 +0300
NNTP-Posting-Host: 195.197.6.70
```

```
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.jippii.net 1159599178 195.197.6.70 (Sat, 30 Sep 2006
09:52:58 EEST)
NNTP-Posting-Date: Sat, 30 Sep 2006 09:52:58 EEST
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:7200

On Fri, 29 Sep 2006 17:13:28 -0700, "Joel Kolstad"
<JKolstad71HatesSpam@yahoo.com> wrote:

>No.  The problem is that wavelength of a, say, 10kHz signal is 3km in free
>space.

This must be a typo, since the free space wavelength at 10 kHz is 30
km.

Paul OH3LWR



From 4495035745556641027
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!newsfeed.icl.net!
newsfeed.fjserv.net!news.tele.dk!news.tele.dk!small.news.tele.dk!
newsfeed.bahnhof.se!195.197.54.117.MISMATCH!feeder1.news.jippii.net!
reader1.news.jippii.net!53ab2750!not-for-mail
From: Paul Keinanen <keinanen@sci.fi>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VLF from the amp
Message-ID: <vm1sh215kmv4dlrihqb7p8p7pvtbgsc9q6@4ax.com>
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
X-Newsreader: Forte Agent 1.92/32.572
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 51
Date: Sat, 30 Sep 2006 09:56:11 +0300
NNTP-Posting-Host: 195.197.6.70
X-Complaints-To: newsmaster@saunalahti.com
X-Trace: reader1.news.jippii.net 1159599177 195.197.6.70 (Sat, 30 Sep 2006
09:52:57 EEST)
NNTP-Posting-Date: Sat, 30 Sep 2006 09:52:57 EEST
Organization: Saunalahti Customer
Xref: g2news2.google.com rec.radio.amateur.homebrew:7199

On Fri, 29 Sep 2006 16:05:21 +0300, Ceriel Nosforit
<ceriel@googlemail.com> wrote:

>Hey all,
>
```

>I read about people using their sound card to catch transmissions
>from dedicated senders such as SAQ by just hooking a roll of wire to the
>mic-in and apparently finding some success in this. This got my wondering,
>what aside from laws and fines is stopping me from hooking my 80W
>stereo amp up to some sort of antenna for global transmission fun?
>Somebody must have thought of this before...

At least previously, the frequency tables started at 9 kHz, so anything below that would not cause any interference to any other service.

However, the problem with VLF is that any practical antenna is going to be very short compared to wavelength and since the radiation resistance is proportional to the square of frequency for antennas well below 1/4 wavelength, most of the power injected into an antenna is going to be dissipated in resistive losses.

At the LF aeronautical beacon band with 90 m antennas, the antenna efficiency based on measurements flown around these beacons seems to be about 1 %. In Europe, the maximum _radiated_ power limit on the 135 kHz amateur radio band is 1 W, but generating that kind of radiated power with reasonable sized antennas (30 m) would require at least 1 kW of transmitter power, indicating that the practical antenna efficiency is about 0.1 %. At 13 kHz, the efficiency would be about 0.001 %.

The near field distance for a simple antenna extends to about 1/6 wavelength, so at VLF, the practical communication range for amateur communication systems would be well within the near field.

Since you are apparently from Finland and since the Finnish telecommunication law only grants the jurisdiction to the telecommunication authorities for "freely propagating" electromagnetic radiation, my interpretation of the law is that it does not cover any near field i.e. magnetic or electrostatic communication systems, in which the near field communication systems work.

Of course, if you are able to generate huge magnetic or electric fields that cause interference to other systems, this may cause problems to you.

But otherwise, go ahead with your experiments, but unfortunately the laws of physics will hit you sooner or later :-).

Paul OH3LWR

```
From 135658213253062234
X-Google-Thread: fc2a5,a72855d8b133d2d3,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!wn13feed!
```

```
worldnet.att.net!bgtnsc05-news.ops.worldnet.att.net.POSTED!dfa70db1!not-for-mail
From: "Heytubeguy" <heytubeguy@worldnet.att.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: FA: NOS JOHNSON + OTHER STUFF
Lines: 9
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <FBuTg.155098$QM6.12332@bgtnsc05-news.ops.worldnet.att.net>
NNTP-Posting-Host: de9c1d57e80cc76de147fd7c84ccfe7a
X-Complaints-To: abuse@worldnet.att.net
X-Trace: bgtnsc05-news.ops.worldnet.att.net 1159624165
de9c1d57e80cc76de147fd7c84ccfe7a (Sat, 30 Sep 2006 13:49:25 GMT)
NNTP-Posting-Date: Sat, 30 Sep 2006 13:49:25 GMT
Organization: AT&T Worldnet
Date: Sat, 30 Sep 2006 13:49:25 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7201

Am listing NOS and a few used EF Johnson parts along other stuff too at:

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZheytubeguy

If you are in need of one of these parts, get them while available.

Tnx for looking:  heytubeguy




From 515844260897370140
X-Google-Thread: fc8b1,e59519db1b4a40eb
X-Google-Thread: 108122,e59519db1b4a40eb
X-Google-Thread: fc2a5,e59519db1b4a40eb
X-Google-Thread: 10bf43,e59519db1b4a40eb
X-Google-Thread: 106d41,e59519db1b4a40eb
X-Google-Attributes: gidfc8b1,gid108122,gidfc2a5,gid10bf43,gid106d41,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-
mail
From: "an old friend" <kb9rqz@hotmail.com>
Newsgroups:
rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebr
ew,rec.radio.amateur.policy,rec.radio.cb
Subject: trolinmg right along
Followup-To: ,rec.radio.cb
Date: 30 Sep 2006 09:07:32 -0700
Organization: http://groups.google.com
Lines: 5
Message-ID: <1159632452.068769.150480@m73g2000cwd.googlegroups.com>
References: <8FkTg.3291$DU3.2720@tornado.texas.rr.com>
NNTP-Posting-Host: 66.82.9.90
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159632458 14782 127.0.0.1 (30 Sep 2006 16:07:38 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 30 Sep 2006 16:07:38 +0000 (UTC)
In-Reply-To: <8FkTg.3291$DU3.2720@tornado.texas.rr.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=66.82.9.90;
   posting-account=u4IZrA0AAAAnZJmD4DLlWGiEpMGb--6i
Xref: g2news2.google.com rec.radio.amateur.boatanchors:5666
rec.radio.amateur.equipment:6542 rec.radio.amateur.homebrew:7202
rec.radio.amateur.policy:47827 rec.radio.cb:20248
```

U-Know-Who wrote:
>
again with the trolling Tom what a matter can't you deal with him by
yourself

```
From 1339995403676204335
X-Google-Thread: fc2a5,e51c450bdeff5cda
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!peer01.cox.net!cox.net!p01!
dukeread05.POSTED!53ab2750!not-for-mail
From: Kerry Miller <kmiller01at@ticnet.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.4) Gecko/
20060516 SeaMonkey/1.0.2
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: MFJ-1278 software
References: <d2nSg.5541$Go3.1040@dukeread05> <451BD335.6060309@invalid.invalid>
In-Reply-To: <451BD335.6060309@invalid.invalid>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 38
Message-ID: <fKyTg.6211$Go3.4500@dukeread05>
Date: Sat, 30 Sep 2006 13:31:39 -0500
NNTP-Posting-Host: 70.179.148.50
X-Complaints-To: abuse@cox.net
X-Trace: dukeread05 1159641099 70.179.148.50 (Sat, 30 Sep 2006 14:31:39 EDT)
NNTP-Posting-Date: Sat, 30 Sep 2006 14:31:39 EDT
Organization: Cox Communications
Xref: g2news2.google.com rec.radio.amateur.homebrew:7203
```

Doug Smith W9WI wrote:
> Kerry Miller wrote:
>> I've been off the air for several years and am getting back on

>> finally. I have an MFJ-1278B TNC and have used it with a normal
>> terminal program on Windows (hyperterm) and Linux (minicom) but don't
>> have any software anymore that will run on XP or Linux. Is there any
>> software out there that supports the other modes this TNC will do like
>> wefax and sstv? I have used it for rtty, cw and packet but don't have
>> anything that will work with the graphical modes.
>>
>> Any suggestions? Will any of the sound card software work with a TNC
>> instead of a soundcard?
>
> I bought one of these some years back. I made the same search you did
> and came up empty-handed. I've been happy with Baudot and VHF packet so
> never really got too serious about the other modes.
>
> I did hook up the accessory audio I/O on my rig to the soundcard in the
> computer, with the intent of making unattended recordings (for AM BCB
> DXing - works great!) and using the computer as a voice keyer. Turns
> out the same connections are appropriate for PSK31 and other soundcard
> modes. Very simple (one transistor, one resistor) serial port
> interfaces are possible to let the computer PTT the radio, or you can
> even buy one preassembled, and if you don't have a soundcard they're
> pretty cheap.
>
> I still use the 1278 for Baudot.

Thanks, that's what I was afraid of. I, too, use it for rtty, packet,
amtor, pactor, etc. but I was looking for a way to use the fax and sstv
modes. It sounds like I might be out of luck, maybe I can find a sound
card program to do those modes. I guess worst case I could find my old
software and load up dos on an old machine if I can still find it all.
MFJ doesn't seem to support it anymore, they don't seem to have any
windows software for it.

Thanks,
Kerry, WD5ABC

From 944948222547802341
X-Google-Thread: fc2a5,5b25eae06a653367
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!feeder.news-service.com!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-05!sn-post-ams-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: VLF from the amp
Date: Sat, 30 Sep 2006 13:33:20 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12htl4hfceam035@corp.supernews.com>
References: <pan.2006.09.29.13.05.21.718750@googlemail.com>
<e7fqh2hvvmum7rigqhl3g56pdbd0kt8mep@4ax.com>
<pan.2006.09.29.21.12.09.921875@googlemail.com>

```
<12hrdl9f7ofja28@corp.supernews.com> <pi4sh2l4tar5e46m0872nhadvfcsuif3mg@4ax.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 16
Xref: g2news2.google.com rec.radio.amateur.homebrew:7204

Hi Paul,

"Paul Keinanen" <keinanen@sci.fi> wrote in message
news:pi4sh2l4tar5e46m0872nhadvfcsuif3mg@4ax.com...
> On Fri, 29 Sep 2006 17:13:28 -0700, "Joel Kolstad"
> <JKolstad71HatesSpam@yahoo.com> wrote:
>
>>No.  The problem is that wavelength of a, say, 10kHz signal is 3km in free
>>space.
>
> This must be a typo, since the free space wavelength at 10 kHz is 30
> km.

Oops, sorry... yeah, you're correct -- my mistake.




From -2680815867938392492
X-Google-Thread: fc2a5,122ad4d33e7c8b88
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!c28g2000cwb.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Help calibrating a noise source
Date: 30 Sep 2006 14:07:29 -0700
Organization: http://groups.google.com
Lines: 68
Message-ID: <1159650449.174260.130390@c28g2000cwb.googlegroups.com>
References: <1159583160.221099.124060@c28g2000cwb.googlegroups.com>
NNTP-Posting-Host: 207.200.116.72
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159650454 24843 127.0.0.1 (30 Sep 2006 21:07:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 30 Sep 2006 21:07:34 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-ta12.proxy.aol.com[CFC8703C] (Prism/1.1.3), HTTP/1.1 cache-ntc-
```

ab08.proxy.aol.com[CFC87448] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: c28g2000cwb.googlegroups.com; posting-host=207.200.116.72;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:7205

From: Gary, WB9JPS on Fri, Sep 29 2006 7:26 pm

>I built a noise source as described by Bill Sabin, W0IYH in QST (1995) and EMRFD. Works fine, but now it's time for calibration. Chatting with Bill, he reinforces the notion that the best way to go is comparison with another calibrated source, or a direct measurement with a calibrated noise figure test set. NoiseCom used to provide this service to hams for <$50, but now they claim they have dropped that offer (it's about $600, now). So my question is, is there anyone in the SF Bay Area (I live in Livermore) who might be able to help? If someone owns a source or test set, perhaps we could get together. I'm open to other suggestions, too.
>
>FYI, this is primarily for testing HF rcvr performance. I'm building an R2-style DC rcvr, and it's turned into a nice research and education project, so I go a bit overboard sometimes, but it sure is fun. I'm also using an IQPro DDS VFO. I wrote a couple reports on its performance that are up on the AA0ZZ website.

If you can't get a calibrated comparison noise source, here's some tips on workshop calibration techniques on random noise:

Random noise voltage or current can ONLY be calibrated by a TRUE Root Mean Square measuring instrument. By "true" I mean a thermionic type such as an RF power meter (thermistor, bolometer, etc. sensor). Few voltmeters on the market have TRUE RMS measuring capability; those that do are specified as such and rather on the expensive side.

A very low-level random noise source can seldom be measured directly by an available-market voltmeter or power meter.* To calibrate it with such instruments requires amplification. A receiver can provide that - provided - it is carefully checked for linearity. By linearity I mean one that does not clip or saturate the RF or IF or detector. A wideband TRUE RMS voltmeter can measure the last IF output and do a comparison between IF signals from a signal generator and the random noise source into the front end. If the front end noise is significant, the total noise input-equivalent will be the good old square root of the sum of the squares of the noise sources; knowing the true RMS values of both and just one will let you find the true RMS value of input noise voltage of the unknown. [kind of nuisance grunge work but then most metrological work <calibration> is of that nature :-(]

* Jim Williams of Linear Semiconductor had a nice article in EDN a few years back, pushing a Linear Semi true RMS IC. In

that was a list of available "RMS implied" voltmeters with their sensor types stated. The cheapo averaging circuits in common multimeters could be LOW on true RMS voltage readings down to half of readings (despite their stated accuracy specs). The Linear Semi IC apparently didn't sell well and was taken off of active production. Perhaps only National Semiconductor has a rough equivalent?

>This is my first post to this group. There seem to be a lot of talented
>folks lurking out there... Thanks in advance for any help.

Living in southern California I don't get up to mid-state often. Difficult to drop over with a comparison source. :-)   However, a bunch of us lurking in here have been "around the horn" a few times and we can supply a few items of information to help. [or maybe to add to the "random noise" level? :-)]

LenAnderson@ieee.org

From 6405906540110083355
X-Google-Thread: fc2a5,8b0f75f6aac92460
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!newsfeed.stanford.edu!newsfeed.news.ucla.edu!ucdavis!not-for-mail
From: Skipp says hello <spamsomeoneelseplease@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 4-400 on 6 meters ?
Date: Tue, 26 Sep 2006 16:02:11 +0000 (UTC)
Organization: University of California, Davis
Lines: 19
Sender: Skipp May <skipp@vici.ucdavis.edu>
Message-ID: <efbiu3$ejk$1@skeeter.ucdavis.edu>
References: <8dHNg.6868$v%4.777@newsread1.news.pas.earthlink.net>
NNTP-Posting-Host: vici.ucdavis.edu
X-Trace: skeeter.ucdavis.edu 1159286531 14964 169.237.105.41 (26 Sep 2006 16:02:11 GMT)
X-Complaints-To: usenet@ucdavis.edu
NNTP-Posting-Date: Tue, 26 Sep 2006 16:02:11 +0000 (UTC)
User-Agent: tin/1.4.7-20030322 ("Suggestions") (UNIX) (SunOS/5.8 (sun4u))
Xref: g2news2.google.com rec.radio.amateur.homebrew:7106

Hi Doug,

I could load a diagram for an amplifier in the files or photos section of the yahoo rfamplifiers group if you'd like. Post a want over on the group and we'll help where possible. No problem putting a 4-400 on 50 MHz.

http://groups.yahoo.com/group/rfamplifiers/

cheers,
skipp

: SNOWDEN <snowden@peoplepc.com> wrote:
: Anyone been successful in building an amplifier at 6 meters? I have a
: couple and was thinking about trying it.
: Doug N4IJ

```
From -2131445246661082399
X-Google-Thread: 108122,33ce63f8dc94b9b5
X-Google-Thread: fc2a5,33ce63f8dc94b9b5
X-Google-Thread: 10bf43,33ce63f8dc94b9b5
X-Google-Thread: 114aac,33ce63f8dc94b9b5
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,gid114aac,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!b1a104da!not-for-mail
Message-ID: <45194FA0.79D139CD@earthlink.net>
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Reply-To: mike.terrell@earthlink.net
Organization: http://home.earthlink.net/~mike.terrell/
X-Mailer: Mozilla 4.78 [en]C-CCK-MCD   (Win98; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,re
c.radio.shortwave
Subject: Re: PayPal horror stories
References: <1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com>
<6eugg2lhifqpomku6q6dpeol34h76n88rs@4ax.com>
<12gjg5c7v745776@corp.supernews.com>   <D%lOg.16604$c07.4284@fed1read04>
<eecrj6$c5e$1@news2.kornet.net>
<1158291225.890645.27670@d34g2000cwd.googlegroups.com>
<450AC969.AEA1EE0C@earthlink.net> <12glldnl1mdsn5c@corp.supernews.com>
<4515DE32.CC9A7A8@earthlink.net> <12hgfjb7ql3v3a3@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 34
Date: Tue, 26 Sep 2006 16:05:30 GMT
NNTP-Posting-Host: 24.110.34.161
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1159286730 24.110.34.161 (Tue, 26 Sep
2006 09:05:30 PDT)
NNTP-Posting-Date: Tue, 26 Sep 2006 09:05:30 PDT
Xref: g2news2.google.com rec.radio.amateur.equipment:6466
rec.radio.amateur.homebrew:7107 rec.radio.amateur.policy:46739
rec.radio.shortwave:53993

Joel Kolstad wrote:
>
> Hi Michael,
>
> "Michael A. Terrell" <mike.terrell@earthlink.net> wrote in message
> news:4515DE32.CC9A7A8@earthlink.net...
> >   BTW, I was given another Compaq like yours with the VGA connector
> > sheared off the motherboard.  It works with a replacement AGP card, but
> > you know me.  I'm going to replace the connector so I can see if the
> > onboard video is still ok. ;-)
>
> Wow... someone probably just reefed on a video cable that was still screwed
> into the connector and ripped it off?
>
> I would wager that you'll find it will work just fine if you can successfully
> re-attach a connector (and repair any damaged traces!)
>
> ---Joel


   No damaged traces, but someone covered the exposed terminals with
black electrical tape over the HDE15 knockout.  The 15 pins aren't too
hard, but removing the two spring loaded mounting clips is the bear.  If
the onboard video is bad, I'll remove it and put one of the old DE-9
filler plates over the hole.



--
Service to my country? Been there, Done that, and I've got my DD214 to
prove it.
Member of DAV #85.

Michael A. Terrell
Central Florida



From 9216681209904839740
X-Google-Thread: 1109af,69127985dd8933bb,start
X-Google-Thread: fc2a5,69127985dd8933bb,start
X-Google-Attributes: gid1109af,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!
newsfeed.news.ucla.edu!ucdavis!not-for-mail
From: Skipp is looking for a cw keyer <skipp025@yahoo.com>
Newsgroups: rec.radio.swap,rec.radio.amateur.homebrew
Subject: Want to buy: Ham Radio Outlet one-knob CW Keyer late 1970s
Date: Tue, 26 Sep 2006 16:12:11 +0000 (UTC)
Organization: University of California, Davis
Lines: 26
Sender: Skipp May <skipp@vici.ucdavis.edu>
Message-ID: <efbjgr$ejk$2@skeeter.ucdavis.edu>
```

NNTP-Posting-Host: vici.ucdavis.edu
X-Trace: skeeter.ucdavis.edu 1159287131 14964 169.237.105.41 (26 Sep 2006 16:12:11 GMT)
X-Complaints-To: usenet@ucdavis.edu
NNTP-Posting-Date: Tue, 26 Sep 2006 16:12:11 +0000 (UTC)
User-Agent: tin/1.4.7-20030322 ("Suggestions") (UNIX) (SunOS/5.8 (sun4u))
Xref: g2news2.google.com rec.radio.swap:7827 rec.radio.amateur.homebrew:7108

Hello there,

Ham Radio Outlet sold a single knob cw keyer in the late 1970's and early 1980's.   The front panel control was only the speed adjustment and power on/off. It's a small black painted box about the size of a sardine can and the rear exit wire connections are routed to an iambic style key. Runs of an internal 9 volt battery and has no side tone.

I'm looking to buy one in any condition (even parts of one).

Please just the described "HRO" or "Ham Radio Outlet" keyer is all I seek. I have other keyers in my collection already but this keyer is the missing link from an original ham station a friend and I used to operate. We'd like to duplicate that station now with the original equipment where possible.

Sell outright or trade..? your choice. Please contact me below if you have the mentioned keyer for sale. Please no other spam or solicitations.

thank you
skipp

skipp025 at yahoo.com

skipp025@yahoo.com
www.radiowrench.com/sonic

From 684220957247007851
X-Google-Thread: fc2a5,f3a4aeab8ebd6098
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-mail
From: "Leon" <leon.heller@bulldoghome.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: SMD
Date: 26 Sep 2006 11:48:54 -0700
Organization: http://groups.google.com
Lines: 15
Message-ID: <1159296533.827440.306850@k70g2000cwa.googlegroups.com>
References: <pD8Sg.47149$7D6.36129@newsfe2-win.ntli.net>
NNTP-Posting-Host: 84.9.116.24
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"

```
X-Trace: posting.google.com 1159296539 1351 127.0.0.1 (26 Sep 2006 18:48:59 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Sep 2006 18:48:59 +0000 (UTC)
In-Reply-To: <pD8Sg.47149$7D6.36129@newsfe2-win.ntli.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=84.9.116.24;
   posting-account=i87wsQwAAADknRAl4wMphajbPFwpuMZQ
Xref: g2news2.google.com rec.radio.amateur.homebrew:7109
```

tony.swanborough wrote:

> Hi all, could some kind soul please help me !!
>
> I live in the uk, looking to buy small amounts of SMD, ie
>
> Resistors/capacitors etc   Local (UK) if possible !
>
> TIA
> Tony

Rapid Electronics, Farnell and RS.

Leon

```
From 3477580212965417910
X-Google-Thread: fc2a5,a9e2a6dd0e72f19a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-
mail
From: "Gian, I7SWX" <i7swx@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Help on General Microwave Bolometer 476
Date: 26 Sep 2006 12:42:52 -0700
Organization: http://groups.google.com
Lines: 26
Message-ID: <1159299772.655124.51570@h48g2000cwc.googlegroups.com>
References: <1159265067.757380.135840@m7g2000cwm.googlegroups.com>
NNTP-Posting-Host: 82.51.12.17
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159299777 30877 127.0.0.1 (26 Sep 2006 19:42:57 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 26 Sep 2006 19:42:57 +0000 (UTC)
In-Reply-To: <1159265067.757380.135840@m7g2000cwm.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
```

Complaints-To: groups-abuse@google.com
Injection-Info: h48g2000cwc.googlegroups.com; posting-host=82.51.12.17;
   posting-account=UdnmUQ0AAABqWSw2iezMYLt5SVbNOulx
Xref: g2news2.google.com rec.radio.amateur.homebrew:7110

 The Bolometer Head is 4240A (and not 42040A)

Thanks and 73

Gian, I7SWX

wrote:
> Hi all,
>
> a good friend of mine in IT9 (Sicily) has a very nice General Microwave
> Bolometer model 476. By mistake he applied too much power and ...
> voila' ... the "476 head" failed.
> He has now at least 8dB error. He would like to repair replacing the
> TFT element that now has 180 value versus the expected 150 ohm.
>
> The Head is model 42040A ok for up to 20GHz.
>
> Thanks for your help
>
> 73
>
> Gian
> I7SWX
> W1-I7SWX
> F5VGU

From 5633010998087821419
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 26 Sep 2006 16:50:48 -0500
From: "Count Floyd" <CountFloyd@MonsterChillerHorrorTheater>
Organization: SCTV
Message-ID: <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amateur.boatanchors
Subject: Re: Proposal 3 (US Hams)
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <d-adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net>

User-Agent: ProNews/2 V1.58.cp116
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 8bit
Date: Tue, 26 Sep 2006 16:50:48 -0500
Lines: 13
NNTP-Posting-Host: 69.163.229.220
X-Trace: sv3-l7Qw37kApwPQK2H/EHTEsMVVpLeSU7cacM6N+Xh3vg/
9QPOJS7OASAV+5xX9nQazXHQRcdlmpXRlcKH!
UV0mvPsqUVLEwKX94/8YBBPF3TJD3y8oGflMr1Rp5EPPU3GSVITMnKg21QD/hLf7DwlsgjxCemJV!
d2Rg5gnkZaP9j6UrmBBhzWM=
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7111
rec.radio.amateur.policy:47025 rec.radio.swap:7837
rec.radio.amateur.boatanchors:5550

On Tue, 26 Sep 2006 00:41:53 UTC, "gkb" <gkbrown@gwi.net> wrote:

> 10 wpm novice, 20 wpm general and 35 wpm for extra class.

Yes, that's the ticket, back to the past. As if enough people weren't
abandoning ham radio already. I have never thought that code was
essential. It is just another "hoop" that someone has to jump
through. Once I passed the code test, I never used it again. Get
real, this is 2006, and with all the innovations on the radio
spectrum, code is the last thing on people's minds.

--
"What do you mean there's no movie?"

From 8148724894937824463
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 26 Sep 2006 17:02:18 -0500
User-Agent: Microsoft-Entourage/10.0.0.1309
Date: Tue, 26 Sep 2006 15:02:15 -0700
Subject: Re: Proposal 3 (US Hams)
From: Don Bowey <dbowey@comcast.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate

```
ur.boatanchors
Message-ID: <C13EF177.44F17%dbowey@comcast.net>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <d-
adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net> <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
Lines: 25
NNTP-Posting-Host: 24.20.154.195
X-Trace: sv3-dVzqLXppqjTxjuMXCLtGzdd/K/
obHr0Q8SZynBuLH4Xc9ToEjRxMyR+9D3BMOSVzSX6iP7FEdC+igdb!
+WZSKR2BaXbNBJlj3qmDFnvJ5Qsd71ib1x7WVhFcQsTodsd+zsKHEX8MqLEuyZTR7czhRKre
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7112
rec.radio.amateur.policy:47026 rec.radio.swap:7838
rec.radio.amateur.boatanchors:5551

On 9/26/06 2:50 PM, in article g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost,
"Count Floyd" <CountFloyd@MonsterChillerHorrorTheater> wrote:

> On Tue, 26 Sep 2006 00:41:53 UTC, "gkb" <gkbrown@gwi.net> wrote:
>
>> 10 wpm novice, 20 wpm general and 35 wpm for extra class.
> Yes, that's the ticket, back to the past.  As if enough people weren't
> abandoning ham radio already.  I have never thought that code was
> essential.  It is just another "hoop" that someone has to jump
> through.  Once I passed the code test, I never used it again.  Get
> real, this is 2006, and with all the innovations on the radio
> spectrum, code is the last thing on people's minds.
>

If there is ever a serious emergency, including no commercial
communications, guys like you who can't build a simple transmitter and
companion receiver, and can't do code, will be the first to scream for help.

What makes you think people are abandoning ham radio?  I don't see that at
all, but I do see a reduction in new hams.  But...... What goes around will
come around.  Ham radio will grow again if the ARRL will quit mucking it up
with their friggin yuppy, elitist attitude.

Don




From -6827420807177347496
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
```

```
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news2.google.com!news.maxwell.syr.edu!
nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
Subject: Re: Proposal 3 (US Hams)
Date: Tue, 26 Sep 2006 18:18:34 -0400
Message-ID: <4d9jh258etp5kgeat4k3v657i18ti50ksd@4ax.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <d-
adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net> <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
<C13EF177.44F17%dbowey@comcast.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 33
NNTP-Posting-Date: 26 Sep 2006 21:23:15 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7113
rec.radio.amateur.policy:47028 rec.radio.swap:7839
rec.radio.amateur.boatanchors:5553

On Tue, 26 Sep 2006 15:02:15 -0700, Don Bowey <dbowey@comcast.net>
wrote:

>On 9/26/06 2:50 PM, in article g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost,
>"Count Floyd" <CountFloyd@MonsterChillerHorrorTheater> wrote:
>
>> On Tue, 26 Sep 2006 00:41:53 UTC, "gkb" <gkbrown@gwi.net> wrote:
>>
>>> 10 wpm novice, 20 wpm general and 35 wpm for extra class.
>> Yes, that's the ticket, back to the past.  As if enough people weren't
>> abandoning ham radio already.  I have never thought that code was
>> essential.  It is just another "hoop" that someone has to jump
>> through.  Once I passed the code test, I never used it again.  Get
>> real, this is 2006, and with all the innovations on the radio
>> spectrum, code is the last thing on people's minds.
>>
>
>If there is ever a serious emergency, including no commercial
>communications, guys like you who can't build a simple transmitter and
>companion receiver, and can't do code, will be the first to scream for help.
when was the last such emergency BTW

For that matter I have built voice tranceivers am I admit
>
>What makes you think people are abandoning ham radio?  I don't see that at
>all, but I do see a reduction in new hams.  But...... What goes around will
>come around.  Ham radio will grow again if the ARRL will quit mucking it up
```

>with their friggin yuppy, elitist attitude.
The ARRL trying to represent either the interests of its memebr (the
code forever crowd or those of the ARS would help
>
>Don
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

```
From -4589421673372869869
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Attributes: gid10bf43,gid1109af,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 26 Sep 2006 17:25:29 -0500
From: "Count Floyd" <CountFloyd@MonsterChillerHorrorTheater>
Organization: SCTV
Message-ID: <g40vCXBzNU8x-pn2-sdIbdDc2ojns@localhost>
Newsgroups:
rec.radio.amateur.policy,rec.radio.swap,rec.radio.amateur.boatanchors,rec.radio.am
ateur.homebrew
Subject: Re: Proposal 3 (US Hams)
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <d-
adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net> <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
<C13EF177.44F17%dbowey@comcast.net>
User-Agent: ProNews/2 V1.58.cp116
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 8bit
Date: Tue, 26 Sep 2006 17:25:29 -0500
Lines: 42
NNTP-Posting-Host: 69.163.229.220
X-Trace: sv3-6pbeKNZNNQcQzDXxCa3KKjIgmt7SSr3/
ypFeojmZwGkeESIjFAhxqT6xsji9eN1Cfm1Jm7K5beT/ylF!
Jz3JdTHPtWCYke9WKov4KiKdlQ+HaI68ADF/Q5Fp6cUHHCTGBl/lQvESq7qHNzw9fROaql5HeLg6!
MDMfMaMlllM5Fc+SNsfJ1ow=
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.policy:47029 rec.radio.swap:7840
rec.radio.amateur.boatanchors:5554 rec.radio.amateur.homebrew:7114
```

```
On Tue, 26 Sep 2006 22:02:15 UTC, Don Bowey <dbowey@comcast.net>
wrote:

> On 9/26/06 2:50 PM, in article g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost,
> "Count Floyd" <CountFloyd@MonsterChillerHorrorTheater> wrote:
>
> > On Tue, 26 Sep 2006 00:41:53 UTC, "gkb" <gkbrown@gwi.net> wrote:
> >
> >> 10 wpm novice, 20 wpm general and 35 wpm for extra class.
> > Yes, that's the ticket, back to the past.  As if enough people weren't
> > abandoning ham radio already.  I have never thought that code was
> > essential.  It is just another "hoop" that someone has to jump
> > through.  Once I passed the code test, I never used it again.  Get
> > real, this is 2006, and with all the innovations on the radio
> > spectrum, code is the last thing on people's minds.
> >
>
> If there is ever a serious emergency, including no commercial
> communications, guys like you who can't build a simple transmitter and
> companion receiver, and can't do code, will be the first to scream for help.

Where did you get the part that I cannot build a radio?  I simply said
that I do not use code anymore!  I have built many radios, repaired
them and use them to this day!  This attitude is typical of
old-timers, and I am 54 myself!  How may radios have you built pal?
>
 What makes you think people are abandoning ham radio?  I don't see
that at
> all, but I do see a reduction in new hams.  But...... What goes around will
> come around.  Ham radio will grow again if the ARRL will quit mucking it up
> with their friggin yuppy, elitist attitude.

I agree with you on the ARRL!  They are the ones who constantly keep
pushing for "code" requirements to be raised!  Check the figures on
hams around the country.  At a recent South Florida hamfest, it seemed
that I was the youngest guy there!
> Don
>



--
"What do you mean there's no movie?"



From -8273331122064739418
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Attributes: gid10bf43,gid1109af,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
```

From: Mark@kb9rqz.com
Newsgroups:
rec.radio.amateur.policy,rec.radio.swap,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: Proposal 3 (US Hams)
Date: Tue, 26 Sep 2006 18:36:18 -0400
Message-ID: <8dajh2h31up01bqf1v323s92vr864sct7f@4ax.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <d-adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net> <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
<C13EF177.44F17%dbowey@comcast.net> <g40vCXBzNU8x-pn2-sdIbdDc2ojns@localhost>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 45
NNTP-Posting-Date: 26 Sep 2006 21:40:52 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.policy:47032 rec.radio.swap:7842
rec.radio.amateur.boatanchors:5555 rec.radio.amateur.homebrew:7115

On Tue, 26 Sep 2006 17:25:29 -0500, "Count Floyd"
<CountFloyd@MonsterChillerHorrorTheater> wrote:

>On Tue, 26 Sep 2006 22:02:15 UTC, Don Bowey <dbowey@comcast.net>
>wrote:
>
>> On 9/26/06 2:50 PM, in article g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost,
>> "Count Floyd" <CountFloyd@MonsterChillerHorrorTheater> wrote:
>>
>> > On Tue, 26 Sep 2006 00:41:53 UTC, "gkb" <gkbrown@gwi.net> wrote:
>> >
>> >> 10 wpm novice, 20 wpm general and 35 wpm for extra class.
>> > Yes, that's the ticket, back to the past. As if enough people weren't
>> > abandoning ham radio already. I have never thought that code was
>> > essential. It is just another "hoop" that someone has to jump
>> > through. Once I passed the code test, I never used it again. Get
>> > real, this is 2006, and with all the innovations on the radio
>> > spectrum, code is the last thing on people's minds.
>> >
>>
>> If there is ever a serious emergency, including no commercial
>> communications, guys like you who can't build a simple transmitter and
>> companion receiver, and can't do code, will be the first to scream for help.
>
>Where did you get the part that I cannot build a radio? I simply said
>that I do not use code anymore! I have built many radios, repaired
>them and use them to this day! This attitude is typical of
>old-timers, and I am 54 myself! How may radios have you built pal?
>>
> What makes you think people are abandoning ham radio? I don't see
>that at
>> all, but I do see a reduction in new hams. But...... What goes around will
>> come around. Ham radio will grow again if the ARRL will quit mucking it up

>> with their friggin yuppy, elitist attitude.
>
>I agree with you on the ARRL! They are the ones who constantly keep
>pushing for "code" requirements to be raised! Check the figures on
>hams around the country. At a recent South Florida hamfest, it seemed
>that I was the youngest guy there!
I went to ham fest couple of months I was the youngest guy there at 42
no less my wife shal we is 29 was still the youngest and had the least
number of reps on that 29th birthday
>> Don
>>
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -3501098682935697232
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
newsfeed2.dallas1.level3.net!news.level3.com!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
Subject: Re: Proposal 3 (US Hams)
Date: 26 Sep 2006 18:46:20 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 19
Message-ID: <efcajs$bt5$1@panix2.panix.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <d-
adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net> <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1159310780 11131 166.84.1.2 (26 Sep 2006 22:46:20 GMT)
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Tue, 26 Sep 2006 22:46:20 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7116
rec.radio.amateur.policy:47033 rec.radio.swap:7843
rec.radio.amateur.boatanchors:5556

Count Floyd <CountFloyd@MonsterChillerHorrorTheater> wrote:
>Yes, that's the ticket, back to the past. As if enough people weren't
>abandoning ham radio already. I have never thought that code was
>essential. It is just another "hoop" that someone has to jump
>through. Once I passed the code test, I never used it again. Get
>real, this is 2006, and with all the innovations on the radio
>spectrum, code is the last thing on people's minds.

Well, if that's the case, why not test them on use of the new innovations?

How about making them demonstrate competence operating five different
modes of their choice? They can choose between HF SSB, VHF/UHF FM, CW,
SSTV, fax, RTTY, packet, what have you. That way folks who want to learn
code and might use code have an advantage, but folks who can type 130 wpm
also have an advantage...
--scott

--
"C'est un Nagra. C'est suisse, et tres, tres precis."

```
From -8312401199118058137
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
Subject: Re: Proposal 3 (US Hams)
Date: Tue, 26 Sep 2006 19:12:32 -0400
Message-ID: <htcjh2p53odojea84ngkm6i379ioftbojm@4ax.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <d-
adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net> <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
<efcajs$bt5$1@panix2.panix.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 22
NNTP-Posting-Date: 26 Sep 2006 22:16:58 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7117
rec.radio.amateur.policy:47035 rec.radio.swap:7844
rec.radio.amateur.boatanchors:5557
```

On 26 Sep 2006 18:46:20 -0400, kludge@panix.com (Scott Dorsey) wrote:

>Count Floyd <CountFloyd@MonsterChillerHorrorTheater> wrote:
>>Yes, that's the ticket, back to the past. As if enough people weren't
>>abandoning ham radio already. I have never thought that code was
>>essential. It is just another "hoop" that someone has to jump
>>through. Once I passed the code test, I never used it again. Get
>>real, this is 2006, and with all the innovations on the radio

>>spectrum, code is the last thing on people's minds.
>
>Well, if that's the case, why not test them on use of the new innovations?
>
>How about making them demonstrate competence operating five different
>modes of their choice? They can choose between HF SSB, VHF/UHF FM, CW,
>SSTV, fax, RTTY, packet, what have you. That way folks who want to learn
>code and might use code have an advantage, but folks who can type 130 wpm
>also have an advantage...
>--scott

five direferent modes might eb a bi much but in any event it is
impractical
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com

From -8211505455408044401
X-Google-Thread: fcc6e,3946db13a1a563fc,start
X-Google-Thread: 108122,3946db13a1a563fc,start
X-Google-Thread: fc2a5,3946db13a1a563fc,start
X-Google-Thread: 10bf43,3946db13a1a563fc,start
X-Google-Thread: 1109af,3946db13a1a563fc,start
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread2.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy,rec.radio.swap
Subject: CW not CB
From: Slow Code <my.mail@no.spam>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 3
Message-ID: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
Date: Tue, 26 Sep 2006 23:15:37 GMT
NNTP-Posting-Host: 4.227.160.74
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1159312537 4.227.160.74 (Tue, 26 Sep
2006 16:15:37 PDT)
NNTP-Posting-Date: Tue, 26 Sep 2006 16:15:37 PDT
Xref: g2news2.google.com rec.radio.amateur.antenna:18778
rec.radio.amateur.equipment:6476 rec.radio.amateur.homebrew:7118
rec.radio.amateur.policy:47039 rec.radio.swap:7845

Why are you people against having good hams?

SC

From -6408783968631343706
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread2.news.pas.earthlink.net.POSTED!3dd4ce4a!not-for-mail
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amateur.boatanchors
Subject: Re: Proposal 3 (US Hams)
From: Slow Code <my.mail@no.spam>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <d-adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net> <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
Organization: None
User-Agent: Xnews/5.04.25
Lines: 18
Message-ID: <FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
Date: Tue, 26 Sep 2006 23:15:49 GMT
NNTP-Posting-Host: 4.227.160.74
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread2.news.pas.earthlink.net 1159312549 4.227.160.74 (Tue, 26 Sep 2006 16:15:49 PDT)
NNTP-Posting-Date: Tue, 26 Sep 2006 16:15:49 PDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7119 rec.radio.amateur.policy:47048 rec.radio.swap:7849 rec.radio.amateur.boatanchors:5559

"Count Floyd" <CountFloyd@MonsterChillerHorrorTheater> wrote in news:g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost:

> On Tue, 26 Sep 2006 00:41:53 UTC, "gkb" <gkbrown@gwi.net> wrote:
>
>> 10 wpm novice, 20 wpm general and 35 wpm for extra class.
>
> Yes, that's the ticket, back to the past. As if enough people weren't abandoning ham radio already. I have never thought that code was essential. It is just another "hoop" that someone has to jump through. Once I passed the code test, I never used it again. Get real, this is 2006, and with all the innovations on the radio spectrum, code is the last thing on people's minds.

Dumbing it down cheapened the license, making being a radio amateur nothing special. No wonder they leaving.

SC

```
From -4003876081444486221
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!
nntpserver.com!zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
Subject: Re: Proposal 3 (US Hams)
Date: Tue, 26 Sep 2006 19:22:19 -0400
Message-ID: <8gdjh29fs9ri0al9b3shileq1uegc9o0bt@4ax.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <d-
adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net> <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
<FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 23
NNTP-Posting-Date: 26 Sep 2006 22:26:45 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7120
rec.radio.amateur.policy:47060 rec.radio.swap:7852
rec.radio.amateur.boatanchors:5560

On Tue, 26 Sep 2006 23:15:49 GMT, Slow Code <my.mail@no.spam> wrote:

>"Count Floyd" <CountFloyd@MonsterChillerHorrorTheater> wrote in
>news:g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost:
>
>> On Tue, 26 Sep 2006 00:41:53 UTC, "gkb" <gkbrown@gwi.net> wrote:
>>
>>> 10 wpm novice, 20 wpm general and 35 wpm for extra class.
>> Yes, that's the ticket, back to the past.  As if enough people weren't
>> abandoning ham radio already.  I have never thought that code was
>> essential.  It is just another "hoop" that someone has to jump
>> through.  Once I passed the code test, I never used it again.  Get
>> real, this is 2006, and with all the innovations on the radio
>> spectrum, code is the last thing on people's minds.
>
>
>Dumbing it down cheapened the license, making being a radio amateur
>nothing special.  No wonder they leaving.
no SC Code tsting makes ham look stupid and anti tech that is why they
are coming
>
>SC
http://kb9rqz.blogspot.com/
```

```
--
Posted via a free Usenet account from http://www.teranews.com



From 856997852029882161
X-Google-Thread: fcc6e,3946db13a1a563fc
X-Google-Thread: 108122,3946db13a1a563fc
X-Google-Thread: fc2a5,3946db13a1a563fc
X-Google-Thread: 10bf43,3946db13a1a563fc
X-Google-Thread: 1109af,3946db13a1a563fc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.com
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy,rec.radio.swap
Subject: ARS is not CW
Date: Tue, 26 Sep 2006 19:23:20 -0400
Message-ID: <bidjh25avcr4gaivu303u0frpnfgu76kr5@4ax.com>
References: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 9
NNTP-Posting-Date: 26 Sep 2006 22:27:46 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:18782
rec.radio.amateur.equipment:6477 rec.radio.amateur.homebrew:7121
rec.radio.amateur.policy:47062 rec.radio.swap:7853

On Tue, 26 Sep 2006 23:15:37 GMT, Slow Code <my.mail@no.spam> wrote:

>Why are you people against having good hams?
>
who is against it

I am all for revoking your license for example
>SC
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From 3967650549290583858
X-Google-Thread: fc2a5,59bb9b40ce520a4a
X-Google-Attributes: gidfc2a5,public
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 26 Sep 2006 19:07:34 -0500
From: "g. beat" <@<spam protected>>
Newsgroups: rec.radio.amateur.homebrew
References: <mOmdnbZ_V8aF3YTYnZ2dnUVZ_q-dnZ2d@comcast.com>
Subject: Re: parting out an HP 8557A
Date: Tue, 26 Sep 2006 19:07:29 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <X92dnUIMY_dbXYTYnZ2dnUVZ_tqdnZ2d@comcast.com>
Lines: 17
NNTP-Posting-Host: 67.176.141.93
X-Trace: sv3-
nHZDxA8HQ7aNE9gisWmGpqLooCFA60AMISLXmHCfMwSv8M6X91vMCCJDzvMsahGM7cnzirz6bBAyecU!
t437KZwhbHBcqOBACOAa/kGYf70Wqy8y7gPnfRZrq1e7nwAtp8AF7TvcqkgQ+YdS9LKBrnNUthjA!
zLQcFbM9J3Wv8u3Vzb8=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7122

"Pete KE9OA" <p.gianako@comcast.net> wrote in message
news:mOmdnbZ_V8aF3YTYnZ2dnUVZ_q-dnZ2d@comcast.com...
>I know that this is off-topic, but since there are many
>homebrewer/designers on this group, I will mention it. I am parting out an
>HP 8557A. This is the one with the LED display.
> I purchased it from a local hamfest and discovered that the sweep board
> had a problem. All of the other boards, including the front panel assembly
> with the attenuator should be ok.
> Let me know if you are looking for any of the board/assemblies and we can
> work out a reasonable price.
>
> Pete
This post appeared a few months ago, may be worth an e-mail (or if he parted
out his - and you can get his sweep board!)
http://www.gatago.com/sci/electronics/equipment/4078487.html




From 1838128204044803051
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
```

```
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Attributes: gid10bf43,gid1109af,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.adelphia.com!news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 26 Sep 2006 19:47:45 -0500
From: "Count Floyd" <CountFloyd@MonsterChillerHorrorTheater>
Organization: SCTV
Message-ID: <g40vCXBzNU8x-pn2-wIUbwxrUsY26@localhost>
Newsgroups:
rec.radio.amateur.policy,rec.radio.swap,rec.radio.amateur.boatanchors,rec.radio.am
ateur.homebrew
Subject: Re: Proposal 3 (US Hams)
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <d-
adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net> <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
<efcajs$bt5$1@panix2.panix.com>
User-Agent: ProNews/2 V1.58.cp116
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 8bit
Date: Tue, 26 Sep 2006 19:47:45 -0500
Lines: 28
NNTP-Posting-Host: 69.163.229.220
X-Trace: sv3-
XNk8V0AeyjRbxEQcPvZfX5riNSwzFfKIJbgcX9CRFSeRFnMEtOJu3aArbAi6jCRTxVslnqDyAxNqgvh!
dM7hoJITsCQIDZnfNOdNUoqDTSry6NzNCvrLVaMdyCyyyyOTMvEDHtB9Mp2esIVWIvJn9qY+OQrh!
5WF59KG59kaE3XqE99YYtxI=
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.policy:47088 rec.radio.swap:7860
rec.radio.amateur.boatanchors:5564 rec.radio.amateur.homebrew:7123
```

On Tue, 26 Sep 2006 22:46:20 UTC, kludge@panix.com (Scott Dorsey) wrote:

> Count Floyd <CountFloyd@MonsterChillerHorrorTheater> wrote:
> >Yes, that's the ticket, back to the past. As if enough people weren't
> >abandoning ham radio already. I have never thought that code was
> >essential. It is just another "hoop" that someone has to jump
> >through. Once I passed the code test, I never used it again. Get
> >real, this is 2006, and with all the innovations on the radio
> >spectrum, code is the last thing on people's minds.
>
> Well, if that's the case, why not test them on use of the new innovations?
>
> How about making them demonstrate competence operating five different
> modes of their choice? They can choose between HF SSB, VHF/UHF FM, CW,
> SSTV, fax, RTTY, packet, what have you. That way folks who want to learn

> code and might use code have an advantage, but folks who can type 130 wpm
> also have an advantage...
> --scott

Scott,
I agree with you! It is organizations like ARRL who continue to
insist on Code! Keep up with the times and test over what is current
and actually being used. I have a restored 1940 Chrysler but I also
have a 2005 PT Cruiser with A/C and all the options. I enjoy the
1940, but I would not take it on a cross-country trip.

--
"What do you mean there's no movie?"

From -4114956621741370986
X-Google-Thread: fc2a5,e51c450bdeff5cda,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!cox.net!news-xfer.cox.net!p01!dukeread05.POSTED!53ab2750!not-for-mail
From: Kerry Miller <kmiller01at@ticnet.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.4) Gecko/20060516 SeaMonkey/1.0.2
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: MFJ-1278 software
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 14
Message-ID: <d2nSg.5541$Go3.1040@dukeread05>
Date: Tue, 26 Sep 2006 23:24:39 -0500
NNTP-Posting-Host: 70.179.148.50
X-Complaints-To: abuse@cox.net
X-Trace: dukeread05 1159331081 70.179.148.50 (Wed, 27 Sep 2006 00:24:41 EDT)
NNTP-Posting-Date: Wed, 27 Sep 2006 00:24:41 EDT
Organization: Cox Communications
Xref: g2news2.google.com rec.radio.amateur.homebrew:7124

I've been off the air for several years and am getting back on finally.
  I have an MFJ-1278B TNC and have used it with a normal terminal
program on Windows (hyperterm) and Linux (minicom) but don't have any
software anymore that will run on XP or Linux. Is there any software
out there that supports the other modes this TNC will do like wefax and
sstv? I have used it for rtty, cw and packet but don't have anything
that will work with the graphical modes.

Any suggestions? Will any of the sound card software work with a TNC
instead of a soundcard?

Thanks,
Kerry, WD5ABC
kmiller01 at ticnet dot com

From -3465026155471903606
X-Google-Thread: fc2a5,59bb9b40ce520a4a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 27 Sep 2006 00:20:09 -0500
From: "Pete KE9OA" <p.gianako@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <mOmdnbZ_V8aF3YTYnZ2dnUVZ_q-dnZ2d@comcast.com>
<X92dnUIMY_dbXYTYnZ2dnUVZ_tqdnZ2d@comcast.com>
Subject: Re: parting out an HP 8557A
Date: Wed, 27 Sep 2006 00:20:19 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
X-RFC2646: Format=Flowed; Response
Message-ID: <4bSdnSadEZmUl4fYnZ2dnUVZ_sCdnZ2d@comcast.com>
Lines: 26
NNTP-Posting-Host: 71.228.3.96
X-Trace: sv3-30oANnZdjKZt+8xyuJ+1XFYp2uN0TOD6wxpPAe+qAS+KVg6tjyLP25t80Wl/
H4kPuyKTjWD935zNkqr!5LXUo2LuH/93g+EaKy2tVq3TMrdkI4tA4Z/
pBaXs0L7NWC+MmWqdK32ywDJk88VQRaWkM9hn0g7+!EF3rTbLN0CfS
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7125

Thanks for the info.....................I've already got an 8558B, so I am set. I just removed the knobs for some extras for my own unit. I don't have much tied up in this unit, and I have already scrapped it.

Pete

"g. beat >" <@<spam protected> wrote in message
news:X92dnUIMY_dbXYTYnZ2dnUVZ_tqdnZ2d@comcast.com...
> "Pete KE9OA" <p.gianako@comcast.net> wrote in message
> news:mOmdnbZ_V8aF3YTYnZ2dnUVZ_q-dnZ2d@comcast.com...
>>I know that this is off-topic, but since there are many
>>homebrewer/designers on this group, I will mention it. I am parting out an
>>HP 8557A. This is the one with the LED display.
>> I purchased it from a local hamfest and discovered that the sweep board
>> had a problem. All of the other boards, including the front panel
>> assembly with the attenuator should be ok.
>> Let me know if you are looking for any of the board/assemblies and we can
>> work out a reasonable price.
>>

>> Pete
> This post appeared a few months ago, may be worth an e-mail (or if he
> parted out his - and you can get his sweep board!)
> http://www.gatago.com/sci/electronics/equipment/4078487.html
>

```
From 7613700342480928289
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 27 Sep 2006 05:29:25 -0500
Date: Wed, 27 Sep 2006 11:29:26 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/
20060910 SeaMonkey/1.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Proposal 3 (US Hams)
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <d-
adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net> <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
<FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
In-Reply-To: <FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <y-udnZEJM6Ubz4fYnZ2dnUVZ8tydnZ2d@pipex.net>
Lines: 23
NNTP-Posting-Host: 81.179.91.40
X-Trace: sv3-8cn+VSv0vSwokfGRhcGInxRqL9Eu8LmX7AFYPNJUQ/
FUZ86cuSE1f7w3YNYGKqVj7I6hfyLUitS3CBf!
XGrCkwhfItC1sqJX4TiULFsp9SbuMm7ygblLBGdZAMk32Tw+MdxVx9NL9o+Uuh7KwLc6sTI/YlXb!
7NqrjYWRvgXRKyacIsb+D8Ka
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7126
```

> Dumbing it down cheapened the license, making being a radio amateur
> nothing special. No wonder they leaving.

=================================

Why should anybody be 'special' for being a radio amateur .
AR is for most of us just a hobby ....a hobby involving lifelong
learning on a huge range of radio communications related topics.
It is a hobby for anybody interested in 'Communicating' by radio,
whatever the level of past education.

Sadly a number of AR licensees see the hobby as one reserved for the 'elite' and look down upon those with ,what they consider, a lower level ,even inferior , license.
I fail to understand why superior skills in receiving and or transmitting Morse telegraphy would make anybody a better Ham ,considering the other aspects of the hobby ,like emergency comms (mostly without Morse telegraphy), satellite comms , propagation study ,digital modes and ......homebrewing ,just to name a few.

The above referred elitist's attitude towards the hobby is not just apparent in the USA but also in Britain and many other European countries.

Frank GM0CSZ / KN6WH

From -6952431365671817032
X-Google-Thread: fc2a5,7d2662b1832e8899,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!koehntopp.de!
newsfeed01.sul.t-online.de!t-online.de!news.tiscali.de!uninett.no!news.net.uni-
c.dk!newsfeed.sunet.se!news01.sunet.se!erinews.ericsson.se!news.al.sw.ericsson.se!
not-for-mail
From: "Harry Lethall" <oeieio@NOSPAAM.hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: HHH Update
Date: Wed, 27 Sep 2006 15:24:37 +0200
Organization: Ericsson
Lines: 37
Message-ID: <efdu2m$kf1$1@news.al.sw.ericsson.se>
NNTP-Posting-Host: eh734003ct91qfe.ki.sw.ericsson.se
X-Trace: news.al.sw.ericsson.se 1159363478 20961 147.214.159.221 (27 Sep 2006
13:24:38 GMT)
X-Complaints-To: abuse@ericsson.se
NNTP-Posting-Date: Wed, 27 Sep 2006 13:24:38 +0000 (UTC)
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1807
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1807
Xref: g2news2.google.com rec.radio.amateur.homebrew:7127

Hi all,
I have had a bit of a busy half-year, with sickness in the family and the like. But I have managed to add a few new projects that could be of interest to my homepages on http://web.telia.com/~u85920178

Have you ever wondered how these old IF-cans can be re-used? I have two different articles dedicated to them:
http://web.telia.com/~u85920178/begin/cans-0.htm (reusing IF cans)
http://web.telia.com/~u85920178/rx/tda7k-rx2.htm (TDA7000 for NBFM)
http://web.telia.com/~u85920178/blocks/if-txfmr_tube_00.htm (Making your

own)

Last month someone asked me how I choose values for components, but "Can you add calculations". Ok, I did it, with a few over-simplifications, and for a crude project:
http://web.telia.com/~u85920178/begin/bug_calc.htm (FM Wireless Microphone)
http://web.telia.com/~u85920178/begin/calc-00.htm (Includes loads of useful calculators)

Earlier int he year I needed to throw together s quick VHF antenna for 446MHz, 432MHz, and again for 145MHz. When I had to do it for 105MHz I created this project:
http://web.telia.com/~u85920178/antennas/vpole0.htm (15-minute +2.5dBd antenna)

Where did those multi-gang tuning capacitors go? I needed one, so I etched it on a PCB, cheap:
http://web.telia.com/~u85920178/use/tuning_caps.htm (multi-gang - for HF/VHF)
http://web.telia.com/~u85920178/use/tuning_caps2.htm (PCB Preset capacitor)

If anyone can help me get the supplier and part number for "hobby time" I couild use a bunch if it ;-)

Best regards Harry

From 1565978097169763110
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Attributes: gid10bf43,gid1109af,gidfc8b1,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!transit3.readnews.com!news-out.readnews.com!panix!panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.radio.amateur.policy,rec.radio.swap,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew
Subject: Re: Proposal 3 (US Hams)
Date: 27 Sep 2006 10:34:17 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 29
Message-ID: <efe259$jr2$1@panix2.panix.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost> <efcajs$bt5$1@panix2.panix.com> <g40vCXBzNU8x-pn2-wIUbwxrUsY26@localhost>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1159367657 28849 166.84.1.2 (27 Sep 2006 14:34:17 GMT)

X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 27 Sep 2006 14:34:17 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.policy:47171 rec.radio.swap:7881
rec.radio.amateur.boatanchors:5574 rec.radio.amateur.homebrew:7128

Count Floyd <CountFloyd@MonsterChillerHorrorTheater> wrote:
>On Tue, 26 Sep 2006 22:46:20 UTC, kludge@panix.com (Scott Dorsey)
>wrote:
>>
>> How about making them demonstrate competence operating five different
>> modes of their choice? They can choose between HF SSB, VHF/UHF FM, CW,
>> SSTV, fax, RTTY, packet, what have you. That way folks who want to learn
>> code and might use code have an advantage, but folks who can type 130 wpm
>> also have an advantage...
>
>I agree with you! It is organizations like ARRL who continue to
>insist on Code! Keep up with the times and test over what is current
>and actually being used. I have a restored 1940 Chrysler but I also
>have a 2005 PT Cruiser with A/C and all the options. I enjoy the
>1940, but I would not take it on a cross-country trip.

Well, the argument is that you have to do _something_ to ensure that people
licensed are competent operators and have some usable skills. I think the
code requirement is not the best way of doing that, but it's better than
nothing. The only alternative I ever seen proposed is just that, nothing.

So, I am in favor of dropping the code requirement, IF it can be replaced
with something else that helps ensure licensed operators are competent and
skilled.
--scott

But then, I _would_ take a 1940 Chrysler cross-country.
--
"C'est un Nagra. C'est suisse, et tres, tres precis."

From 1148327908450588856
X-Google-Thread: fcc6e,3946db13a1a563fc
X-Google-Thread: 108122,3946db13a1a563fc
X-Google-Thread: fc2a5,3946db13a1a563fc
X-Google-Thread: 10bf43,3946db13a1a563fc
X-Google-Thread: 1109af,3946db13a1a563fc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i42g2000cwa.googlegroups.com!not-for-mail
From: "Denny" <k8do@mailblocks.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: CW not CB
Date: 27 Sep 2006 07:57:03 -0700
Organization: http://groups.google.com

```
Lines: 12
Message-ID: <1159369023.093934.313340@i42g2000cwa.googlegroups.com>
References: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
NNTP-Posting-Host: 24.247.246.156
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159369028 2299 127.0.0.1 (27 Sep 2006 14:57:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Sep 2006 14:57:08 +0000 (UTC)
In-Reply-To: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i42g2000cwa.googlegroups.com; posting-host=24.247.246.156;
   posting-account=GhrC0g0AAACdrABM-CDx8Fhs5lKJR5q2
Xref: g2news2.google.com rec.radio.amateur.antenna:18813
rec.radio.amateur.equipment:6486 rec.radio.amateur.homebrew:7129
rec.radio.amateur.policy:47174 rec.radio.swap:7884


Slow Code wrote:
> Why are you people against having good hams?
>
> SC

As a confirmed CW op of 40+ years duration I am not against 'good
hams'... However, I find your barrage of postings to multiple groups to
be tiring, pointless, and senseless...

denny / k8do




From 1974458205615702614
X-Google-Thread: fcc6e,3946db13a1a563fc
X-Google-Thread: 108122,3946db13a1a563fc
X-Google-Thread: fc2a5,3946db13a1a563fc
X-Google-Thread: 10bf43,3946db13a1a563fc
X-Google-Thread: 1109af,3946db13a1a563fc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Xref: g2news2.google.com rec.radio.amateur.antenna:18817
rec.radio.amateur.equipment:6488 rec.radio.amateur.homebrew:7130
rec.radio.amateur.policy:47178 rec.radio.swap:7887
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy,rec.radio.swap
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!boeing.com!not-for-mail
From: "R. Scott" <spamtrap@w7psk.net>
Subject: Re: CW not CB
Message-ID: <J69E8q.Hyy@news.boeing.com>
```

```
X-Mimeole: Produced By Microsoft MimeOLE V6.00.2900.2962
X-Priority: 3
X-Msmail-Priority: Normal
Lines: 13
Sender: nntp@news.boeing.com (Boeing NNTP News Access)
Organization: The Boeing Company
X-Complaints-To: abuse@news.boeing.com
X-Complaints-To: abuse@news.boeing.com
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-Rfc2646: Format=Flowed; Original
References: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
Date: Wed, 27 Sep 2006 16:10:05 GMT
```

"Slow Code" <my.mail@no.spam> wrote in message
news:twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net...

> Why are you people against having good hams?
>
> SC

I'm not against having good hams, but can you tell me what your Inane proposals have to do with that. Over 30 years I've seen tons of 20WPM Jerks on the bands. CW has nothing to do with the people we get in.

```
From 6687684860333221299
X-Google-Thread: fcc6e,3946db13a1a563fc
X-Google-Thread: 108122,3946db13a1a563fc
X-Google-Thread: fc2a5,3946db13a1a563fc
X-Google-Thread: 10bf43,3946db13a1a563fc
X-Google-Thread: 1109af,3946db13a1a563fc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews7.bellsouth.net.POSTED!725764fe!not-for-mail
From: jakdedert <jakdedert@bellsouth.net>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy,rec.radio.swap
Subject: Re: CW not CB
References: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
In-Reply-To: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 14
Message-ID: <EqySg.18854$tT6.18444@bignews7.bellsouth.net>
```

X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
enggpaojkliedbjjdbdpiflmbcekedmfhojhikkbagflhcbobilhpboheehlbjodanfkgiiekphaegojih
eoanndoppmaoekklbokbojkncoffpenmoebahngadmnepdikigieobdmbieigfbbokcphmohahbbgf
NNTP-Posting-Date: Wed, 27 Sep 2006 13:21:40 EDT
Organization: BellSouth Internet Group
Date: Wed, 27 Sep 2006 12:19:30 -0500
Xref: g2news2.google.com rec.radio.amateur.antenna:18820
rec.radio.amateur.equipment:6490 rec.radio.amateur.homebrew:7131
rec.radio.amateur.policy:47180 rec.radio.swap:7888

Slow Code wrote:
> Why are you people against having good hams?
>

Well...I quit eating red meat regularly about 20 some-odd years ago. I
feel much better now with all that out of my system.

I do enjoy a slab or two of good ham at Christmas, though.

jak

> SC
>

From 6410947476144569348
X-Google-Thread: fc2a5,7d2662b1832e8899
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,UTF8
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!newsfeed.t-com.hr!news-
hub.siol.net!news.siol.net!not-for-mail
From: Spajky <Spajky@##volja.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: HHH Update
Reply-To: Spajky@##volja.net
Message-ID: <7kdlh2dp1l9cqub33v9bf0sv4kebo4nr2t@4ax.com>
References: <efdu2m$kf1$1@news.al.sw.ericsson.se>
X-Newsreader: Forte Agent 1.9/32.560
MIME-Version: 1.0
Content-Type: text/plain; charset=utf-8
Content-Transfer-Encoding: 8bit
Lines: 17
Date: Wed, 27 Sep 2006 19:50:38 +0200
NNTP-Posting-Host: 194.165.104.58
X-Complaints-To: abuse@siol.net
X-Trace: news.siol.net 1159379300 194.165.104.58 (Wed, 27 Sep 2006 19:48:20 MET
DST)
NNTP-Posting-Date: Wed, 27 Sep 2006 19:48:20 MET DST
Organization: Slovenija OnLine - SiOL

Xref: g2news2.google.com rec.radio.amateur.homebrew:7132

On Wed, 27 Sep 2006 15:24:37 +0200, "Harry Lethall"
<oeieio@NOSPAAM.hotmail.com> wrote:

>I have had a bit of a busy half-year, ...ad a few new projects that could be of interest
>to my homepages on http://web.telia.com/~u85920178

>http://web.telia.com/~u85920178/rx/tda7k-rx2.htm (TDA7000 for NBFM)

>Best regards Harry

I like when someone fiddles with that TDA7000 chip :-))
I did it time ago too ! :-)) ... you will get mail ! :-)

--
Regards , SPAJKY ®
mail addr. @ my site @ http://www.spajky.vze.com
4y - "Tualatin OC-ed / BX-Slot1 / inaudible setup!"

From 47339840108616932
X-Google-Thread: fcc6e,3946db13a1a563fc
X-Google-Thread: 108122,3946db13a1a563fc
X-Google-Thread: fc2a5,3946db13a1a563fc
X-Google-Thread: 10bf43,3946db13a1a563fc
X-Google-Thread: 1109af,3946db13a1a563fc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!fu-berlin.de!uni-berlin.de!individual.net!not-for-mail
From: "MnMikew" <mnmiikkew@aol.com>
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: CW not CB
Date: Wed, 27 Sep 2006 13:13:31 -0500
Lines: 10
Message-ID: <4nvtacFc77jhU1@individual.net>
References: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
X-Trace: individual.net Y1fmFuh0mhCtMjh9f+Y8KwFmyrt28dbsAhXXI8iVPr4MkOFu4O
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Xref: g2news2.google.com rec.radio.amateur.antenna:18827 rec.radio.amateur.equipment:6492 rec.radio.amateur.homebrew:7133 rec.radio.amateur.policy:47184 rec.radio.swap:7895

"Slow Code" <my.mail@no.spam> wrote in message

```
news:twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net...
> Why are you people against having good hams?
>
> SC

If you're one then it's already fucked.




From 56085219680696778
X-Google-Thread: fcc6e,3946db13a1a563fc
X-Google-Thread: 108122,3946db13a1a563fc
X-Google-Thread: fc2a5,3946db13a1a563fc
X-Google-Thread: 10bf43,3946db13a1a563fc
X-Google-Thread: 1109af,3946db13a1a563fc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy,rec.radio.swap
Subject: Re: CW not CB
Date: 27 Sep 2006 12:19:08 -0700
Organization: http://groups.google.com
Lines: 13
Message-ID: <1159384748.262629.177230@e3g2000cwe.googlegroups.com>
References: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
   <EqySg.18854$tT6.18444@bignews7.bellsouth.net>
NNTP-Posting-Host: 207.200.116.70
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159384753 9071 127.0.0.1 (27 Sep 2006 19:19:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Sep 2006 19:19:13 +0000 (UTC)
In-Reply-To: <EqySg.18854$tT6.18444@bignews7.bellsouth.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-tc02.proxy.aol.com[CFC8710A] (Prism/1.1.3), HTTP/1.1 cache-ntc-
ab06.proxy.aol.com[CFC87446] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=207.200.116.70;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.antenna:18832
rec.radio.amateur.equipment:6494 rec.radio.amateur.homebrew:7134
rec.radio.amateur.policy:47190 rec.radio.swap:7896

From:  jakdedert on Wed, Sep 27 2006 10:19 am
```

>Slow Code wrote:

>> Why are you people against having good hams?
>
>Well...I quit eating red meat regularly about 20 some-odd years ago. I
>feel much better now with all that out of my system.
>
>I do enjoy a slab or two of good ham at Christmas, though.

   My wife and I had aged ham at Easter. Tasted like chicken.

```
From -3128595818182753724
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!postnews.google.com!
d34g2000cwd.googlegroups.com!not-for-mail
From: bob_deep@yahoo.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
Subject: Re: Proposal 3 (US Hams)
Date: 27 Sep 2006 12:32:22 -0700
Organization: http://groups.google.com
Lines: 56
Message-ID: <1159385541.965825.190570@d34g2000cwd.googlegroups.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>
   <d-adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net>
   <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
   <FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
NNTP-Posting-Host: 204.62.8.141
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159385547 10988 127.0.0.1 (27 Sep 2006 19:32:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Sep 2006 19:32:27 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d34g2000cwd.googlegroups.com; posting-host=204.62.8.141;
   posting-account=knMWMQ0AAACma615_DQioSE9uvOCZgOy
Xref: g2news2.google.com rec.radio.amateur.homebrew:7135
rec.radio.amateur.policy:47191 rec.radio.swap:7897
rec.radio.amateur.boatanchors:5586
```

Slow Code wrote:

> Dumbing it down cheapened the license, making being a radio amateur
> nothing special. No wonder they leaving.
>

I'll bet that most of the folks "leaving" are simply not renewing being SK. Code is in a way a dying art quite literally. Which is a shame.

We have to face it, this hobby doesn't attract a lot of new blood and the existing stock is rapidly growing older. The advantage to me is that I can find old ham equipment at estate sales for next to nothing but that's not what I'm posting about.. :)

I don't think things are all that "unfair" with the maximum code speed we currently test being 5 WPM. Of course that's what I got tested at so you can charge bias if you want. I currently don't operate CW (heck, I don't operate at all right now) but all that spectrum space in the lower part of the bands is starting to beckon. I've got a code practice program and I work on my code from time to time so maybe someday...

So where do I fall in this debate? I certainly don't favor the removal of the code requirement for all license classes. Extra's surely need to be tested at the current 5 WPM. But the fact remains that the interest in this hobby as shown by the decline in the number of licenses needs some attention.

We don't need to "dumb" down the hobby to get more folks in it, but we do need to bring the requirements into the current age. Before the advent of the personal computer 20 years ago, it would have been very expensive to set up an automated CW send and receive station, but now you can do it for next to nothing. One can actually send and receive CW without ever learning it and get transmission rates much faster than just about anybody can copy by ear, just hook up your PC to the rig load the software and voila, the no code licensee is sending and receiving at 25 WPM the day after he failed the 5 WPM test.

On the other hand, you guys that struggled to get their code speed up to 20 WPM so they could get their Extra have my respect. I understand that lowering that requirement seems like we are dumbing down the hobby, but I hope you can understand that like AM, CW is being replaced by other modes that you and your generation have pioneered.

My greatest fear is that the FCC will totally do away with code in it's testing requirements, which will logically lead to a mass spectrum reassignment to make more room for voice and we will likely loose our valuable spectrum space in the process. But once the last license goes to SK what's to stop the FCC from giving it all away?

May code never die, there are times it's the only option, but we have to keep the hobby relevant or it will all go away when the hobby dies.

-= Bob =-
KC4UAI

From -8539804086474269685
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!sn-xt-sjc-02!sn-xt-sjc-08!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amateur.boatanchors
Subject: Re: Proposal 3 (US Hams)
Date: Wed, 27 Sep 2006 13:08:54 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12hlmilh2mu4u46@corp.supernews.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <d-adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net> <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost> <FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
<1159385541.965825.190570@d34g2000cwd.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 30
Xref: g2news2.google.com rec.radio.amateur.homebrew:7136
rec.radio.amateur.policy:47194 rec.radio.swap:7899
rec.radio.amateur.boatanchors:5587

<bob_deep@yahoo.com> wrote in message
news:1159385541.965825.190570@d34g2000cwd.googlegroups.com...

> I don't think things are all that "unfair" with the maximum code speed
> we currently test being 5 WPM.

I don't think the code require is necessarily "unfair" somehow, but it does seem awfully "arbitrary" these days. In *today's* world, it's just one mode of many, and a rather unpopular one at that.

> So where do I fall in this debate? I certainly don't favor the removal
> of the code requirement for all license classes. Extra's surely need
> to be tested at the current 5 WPM.

If we're going to make people show a certain commitment to amateur radio before giving them advance privileges -- reasonable enough --, to me it seems that the study should be of something more people are likely to use... say, error correction coding theory, or modulator design or something. Or maybe something even more practical such as demonstrating the ability to perform link planning (antenna selection, power selection, etc.). I imagine one of the reasons CW testing remains is because it is so easy to test compared to those options.

I think I'm pretty much in agreement with you... 5 WPM is not an unreasonable barrier to entry, and I don't particular oppose keeping it around, but I do think it seems awfully arbitrary, and this refelcts somewhat poorly on hams as a group trying to present themselves as modern and professional.

---Joel Kolstad

```
From -6590171918217505718
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!
newshosting.com!130.81.64.211.MISMATCH!cycny01.gnilink.net!
spamkiller2.gnilink.net!gnilink.net!trndny07.POSTED!3e34f8a9!not-for-mail
From: Leroy <no.spam@no.spam.invalid>
Organization: Radio Free America
Subject: Re: Proposal 3 (US Hams)
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2006.09.27.20.43.09.198072@no.spam.invalid>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <d-
adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net> <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
<FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
<1159385541.965825.190570@d34g2000cwd.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 68
Date: Wed, 27 Sep 2006 20:43:19 GMT
NNTP-Posting-Host: 70.19.134.210
X-Complaints-To: abuse@verizon.net
X-Trace: trndny07 1159389799 70.19.134.210 (Wed, 27 Sep 2006 16:43:19 EDT)
NNTP-Posting-Date: Wed, 27 Sep 2006 16:43:19 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7137
rec.radio.amateur.policy:47196 rec.radio.swap:7901
rec.radio.amateur.boatanchors:5589
```

On Wed, 27 Sep 2006 12:32:22 -0700, bob_deep wrote:

>
> Slow Code wrote:
>> Dumbing it down cheapened the license, making being a radio amateur
>> nothing special. No wonder they leaving.
>>
>>
> I'll bet that most of the folks "leaving" are simply not renewing being
> SK. Code is in a way a dying art quite literally. Which is a shame.
>
> We have to face it, this hobby doesn't attract a lot of new blood and the
> existing stock is rapidly growing older. The advantage to me is that I
> can find old ham equipment at estate sales for next to nothing but that's
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> this hobby as shown by the decline in the number of licenses needs some
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>
> We don't need to "dumb" down the hobby to get more folks in it, but we do
> need to bring the requirements into the current age. Before the advent of
> the personal computer 20 years ago, it would have been very expensive to
> set up an automated CW send and receive station, but now you can do it for
> next to nothing. One can actually send and receive CW without ever
> learning it and get transmission rates much faster than just about anybody
> can copy by ear, just hook up your PC to the rig load the software and
> voila, the no code licensee is sending and receiving at 25 WPM the day
> after he failed the 5 WPM test.
>
> On the other hand, you guys that struggled to get their code speed up to
> 20 WPM so they could get their Extra have my respect. I understand that
> lowering that requirement seems like we are dumbing down the hobby, but I
> hope you can understand that like AM, CW is being replaced by other modes
> that you and your generation have pioneered.
>
> My greatest fear is that the FCC will totally do away with code in it's
> testing requirements, which will logically lead to a mass spectrum
> reassignment to make more room for voice and we will likely loose our
> valuable spectrum space in the process. But once the last license goes to
> SK what's to stop the FCC from giving it all away?
>
> May code never die, there are times it's the only option, but we have to
> keep the hobby relevant or it will all go away when the hobby dies.
>
> -= Bob =-

> KC4UAI

I was under the impression that CW would get through under worse conditions and/or with lower power requirements than other modes.

Does no one run "flea power" anymore?

I sometimes listen in on 10 meters but don't hear much there. A bit of CW every now and then, but not much of anything, usually. Maybe I'm listening at the wrong times? Or is it mostly vacant and just freebanders buying the 10 meter rigs?

```
From -3271946249982l9020
X-Google-Thread: fcc6e,3946db13a1a563fc
X-Google-Thread: 108122,3946db13a1a563fc
X-Google-Thread: fc2a5,3946db13a1a563fc
X-Google-Thread: 10bf43,3946db13a1a563fc
X-Google-Thread: 1109af,3946db13a1a563fc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newscon02.news.prodigy.net!
prodigy.net!newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr14.news.prodigy.com.POSTED!00eff025!not-for-mail
From: Cecil Moore <mycall@hotmail.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy,rec.radio.swap
Subject: Re: CW not CB
References: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
<EqySg.18854$tT6.18444@bignews7.bellsouth.net>
<1159384748.262629.177230@e3g2000cwe.googlegroups.com>
In-Reply-To: <1159384748.262629.177230@e3g2000cwe.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 6
Message-ID: <hDBSg.17676$Ij.3549@newssvr14.news.prodigy.com>
NNTP-Posting-Host: 70.254.205.99
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr14.news.prodigy.com 1159390797 ST000 70.254.205.99 (Wed, 27 Sep
2006 16:59:57 EDT)
NNTP-Posting-Date: Wed, 27 Sep 2006 16:59:57 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
TSUGWUSOQBPSCFD[LZKJOPHAWB\^PBQLGPQRZUEK@YUDUWYAKVUOPCW[ML\JXUCKVFDYZKBMSFX^OMSAFN
TINTDDMVW[X\THOPXZRVOCJTUTPC\_JSBVX\KAOTBAJBVMZTYAKMNLDI_MFDSSOLXINH__FS^\WQGHGI^C
@E[A_CF\AQLDQ\BTMPLDFNVUQ_VM
Date: Wed, 27 Sep 2006 20:59:57 GMT
```

```
Xref: g2news2.google.com rec.radio.amateur.antenna:18835
rec.radio.amateur.equipment:6496 rec.radio.amateur.homebrew:7138
rec.radio.amateur.policy:47201 rec.radio.swap:7902

LenAnderson@ieee.org wrote:
>    My wife and I had aged ham at Easter.  Tasted like chicken.

I have a turkey ham sandwich in my hand at the moment.
--
73, Cecil  http://www.w5dxp.com


From 2894272033227908551
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Attributes: gid1109af,gidfc8b1,gidfc2a5,gid10bf43,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.adelphia.com!
news.adelphia.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 27 Sep 2006 16:09:11 -0500
From: "Count Floyd" <CountFloyd@MonsterChillerHorrorTheater>
Organization: SCTV
Message-ID: <g40vCXBzNU8x-pn2-nJ0zzeMiNFDJ@localhost>
Newsgroups:
rec.radio.swap,rec.radio.amateur.boatanchors,rec.radio.amateur.homebrew,rec.radio.
amateur.policy
Subject: Re: Proposal 3 (US Hams)
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <g40vCXBzNU8x-
pn2-xidDCXv10dGz@localhost> <efcajs$bt5$1@panix2.panix.com> <g40vCXBzNU8x-pn2-
wIUbwxrUsY26@localhost> <efe259$jr2$1@panix2.panix.com>
User-Agent: ProNews/2 V1.58.cp116
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 8bit
Date: Wed, 27 Sep 2006 16:09:11 -0500
Lines: 40
NNTP-Posting-Host: 69.163.229.220
X-Trace: sv3-
ozLVTNfAzFAPkQCLEJ+MdiKpp33VzpxXS1R6RBuWSlGU0C3vaEYpoZIVcywoYHIJX0jqhsvh+CZTiTY!
2+43/BzC1ceIu5jZbGdxOyozpZZq+GF3F85yrMj1Llo6OMqlFNthAoCFQeaKwojJPtDAx1TXsyot!
PbZkCP7SNKtbplkO+x21GvE=
X-Complaints-To: abuse@adelphia.net
X-DMCA-Complaints-To: copyright@adelphia.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.swap:7903 rec.radio.amateur.boatanchors:5591
rec.radio.amateur.homebrew:7139 rec.radio.amateur.policy:47203
```

```
On Wed, 27 Sep 2006 14:34:17 UTC, kludge@panix.com (Scott Dorsey)
wrote:

> Count Floyd <CountFloyd@MonsterChillerHorrorTheater> wrote:
> >On Tue, 26 Sep 2006 22:46:20 UTC, kludge@panix.com (Scott Dorsey)
> >wrote:
> >>
> >> How about making them demonstrate competence operating five different
> >> modes of their choice?  They can choose between HF SSB, VHF/UHF FM, CW,
> >> SSTV, fax, RTTY, packet, what have you.  That way folks who want to learn
> >> code and might use code have an advantage, but folks who can type 130 wpm
> >> also have an advantage...
> >
> >I agree with you!  It is organizations like ARRL who continue to
> >insist on Code!  Keep up with the times and test over what is current
> >and actually being used.  I have a restored 1940 Chrysler but I also
> >have a 2005 PT Cruiser with A/C and all the options.  I enjoy the
> >1940, but I would not take it on a cross-country trip.
>
> Well, the argument is that you have to do _something_ to ensure that people
> licensed are competent operators and have some usable skills.  I think the
> code requirement is not the best way of doing that, but it's better than
> nothing.  The only alternative I ever seen proposed is just that, nothing.
>
> So, I am in favor of dropping the code requirement, IF it can be replaced
> with something else that helps ensure licensed operators are competent and
> skilled.
> --scott
>
> But then, I _would_ take a 1940 Chrysler cross-country.

Scott,
I took the 1940 Royal Coupe on a mini-cross country trip here in
Florida, managed 60-65 with the overdrive, the original factory AM
radio pulling in at least 10 states, remember those days!  Got about
19-21mpg with the old flathead 6, but the 2/60 A/C wasn't really up to
snuff.  Once I opened the cowl vent and the vent windows turned all
the way in on us, it became tolerable.  Waiting for the winter months
here in Florida to really enjoy the old car.
"What do you mean there's no movie?"


From -2761448566076686822
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news.alt.net
From: "Kork" <kork@btlekorks.org>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
```

ur.boatanchors
Subject: Re: Proposal 3 (US Hams)
Date: Wed, 27 Sep 2006 17:13:27 -0400
Organization: bottle kork
Lines: 7
Message-ID: <bbf2b.k33.19.1@news.alt.net>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>   <d-
adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net>   <g40vCXBzNU8x-pn2-
xidDCXv10dGz@localhost>   <FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
<1159385541.965825.190570@d34g2000cwd.googlegroups.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Xref: g2news2.google.com rec.radio.amateur.homebrew:7140
rec.radio.amateur.policy:47205 rec.radio.swap:7904
rec.radio.amateur.boatanchors:5592

<bob_deep@yahoo.com> a.k.a. The Stupidest Person in The
World, wrote in message (nothing important, as usual)
///////remainig drivel flushed///////

From 2559737311096209484
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!transit3.readnews.com!news-
out.readnews.com!news-out.readnews.com!news-xxxfer.readnews.com!panix!
panix2.panix.com!not-for-mail
From: kludge@panix.com (Scott Dorsey)
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
Subject: Re: Proposal 3 (US Hams)
Date: 27 Sep 2006 18:00:49 -0400
Organization: Former users of Netcom shell (1989-2000)
Lines: 25
Message-ID: <efesah$9cf$1@panix2.panix.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <g40vCXBzNU8x-
pn2-xidDCXv10dGz@localhost> <FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
<1159385541.965825.190570@d34g2000cwd.googlegroups.com>
NNTP-Posting-Host: panix2.panix.com
X-Trace: reader2.panix.com 1159394449 8108 166.84.1.2 (27 Sep 2006 22:00:49 GMT)

```
X-Complaints-To: abuse@panix.com
NNTP-Posting-Date: Wed, 27 Sep 2006 22:00:49 +0000 (UTC)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7141
rec.radio.amateur.policy:47206 rec.radio.swap:7906
rec.radio.amateur.boatanchors:5593

 <bob_deep@yahoo.com> wrote:
>My greatest fear is that the FCC will totally do away with code in it's
>testing requirements, which will logically lead to a mass spectrum
>reassignment to make more room for voice and we will likely loose our
>valuable spectrum space in the process. But once the last license goes
>to SK what's to stop the FCC from giving it all away?

Well, one of the nice things about code is that you don't _need_ very
much bandwidth.  And with modern DSP you should be able to make IF filters
even narrower than my old R-390... should be possible to cram hundreds of
carriers into the space of one SSB channel.

And hey, what's happening to the 500KC marine allocation?  That's pretty
much dead... I wonder if the ITU could be convinced to give that to the
ham radio operators.  Nobody else wants it.

>May code never die, there are times it's the only option, but we have
>to keep the hobby relevant or it will all go away when the hobby dies.

I don't think code ever will die, but I could see a world in which it is
even less relevant than it is today.  That's not to say we shouldn't encourage
its use.
--scott
--
"C'est un Nagra.  C'est suisse, et tres, tres precis."


From -2331137198686278397
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-
mail
From: bob_deep@yahoo.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
Subject: Re: Proposal 3 (US Hams)
Date: 27 Sep 2006 15:36:15 -0700
Organization: http://groups.google.com
Lines: 34
Message-ID: <1159396575.512792.26990@e3g2000cwe.googlegroups.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>
   <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
   <FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
   <1159385541.965825.190570@d34g2000cwd.googlegroups.com>
   <efesah$9cf$1@panix2.panix.com>
NNTP-Posting-Host: 204.62.8.141
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159396580 31502 127.0.0.1 (27 Sep 2006 22:36:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Sep 2006 22:36:20 +0000 (UTC)
In-Reply-To: <efesah$9cf$1@panix2.panix.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 1.0.3705),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=204.62.8.141;
   posting-account=knMWMQ0AAACma615_DQioSE9uvOCZgOy
Xref: g2news2.google.com rec.radio.amateur.homebrew:7142
rec.radio.amateur.policy:47208 rec.radio.swap:7909
rec.radio.amateur.boatanchors:5594
```

Scott Dorsey wrote:
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> Well, one of the nice things about code is that you don't _need_ very
> much bandwidth. And with modern DSP you should be able to make IF filters
> even narrower than my old R-390... should be possible to cram hundreds of
> carriers into the space of one SSB channel.

So true, and low bandwidth helps CW get though when SSB would be impossible. However, don't forget that CW can be done quite nicely with a cheap computer, some simple cables and some free software without learning it. I suppose that one could argue that a human ear can hear what a computer can't, but I'd be willing to argue that point in favor of the computer.

I'll be willing to bet that there won't be much improvement over CW in the raw "get the message though under bad conditions" power with the new digital modes using the same bandwidth as CW. Simple is under-rated in my book.

As an operating mode CW is alive and well and likely to stay, however it will be computer driven more and more as the art dies off and new blood is not required to learn it as well as the old.

Change is neither good or bad, it's just change.

-= Bob =-

```
From -6633013984563742593
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-mail
From: bob_deep@yahoo.com
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amateur.boatanchors
Subject: Re: Proposal 3 (US Hams)
Date: 27 Sep 2006 15:36:25 -0700
Organization: http://groups.google.com
Lines: 34
Message-ID: <1159396585.074065.188310@m73g2000cwd.googlegroups.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>
   <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
   <FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
   <1159385541.965825.190570@d34g2000cwd.googlegroups.com>
   <efesah$9cf$1@panix2.panix.com>
NNTP-Posting-Host: 204.62.8.141
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159396590 5799 127.0.0.1 (27 Sep 2006 22:36:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Sep 2006 22:36:30 +0000 (UTC)
In-Reply-To: <efesah$9cf$1@panix2.panix.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 1.0.3705),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=204.62.8.141;
   posting-account=knMWMQ0AAACma615_DQioSE9uvOCZgOy
Xref: g2news2.google.com rec.radio.amateur.homebrew:7143 rec.radio.amateur.policy:47209 rec.radio.swap:7910 rec.radio.amateur.boatanchors:5595
```

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From 4942064625143080587
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-mail
From: bob_deep@yahoo.com
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amateur.boatanchors
Subject: Re: Proposal 3 (US Hams)
Date: 27 Sep 2006 15:36:29 -0700
Organization: http://groups.google.com
Lines: 34
Message-ID: <1159396589.117712.187670@m73g2000cwd.googlegroups.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>
<g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
<FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
<1159385541.965825.190570@d34g2000cwd.googlegroups.com>
<efesah$9cf$1@panix2.panix.com>
NNTP-Posting-Host: 204.62.8.141
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159396595 5813 127.0.0.1 (27 Sep 2006 22:36:35 GMT)

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Sep 2006 22:36:35 +0000 (UTC)
In-Reply-To: <efesah$9cf$1@panix2.panix.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; .NET CLR 1.0.3705),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=204.62.8.141;
   posting-account=knMWMQ0AAACma615_DQioSE9uvOCZgOy
Xref: g2news2.google.com rec.radio.amateur.homebrew:7144
rec.radio.amateur.policy:47210 rec.radio.swap:7911
rec.radio.amateur.boatanchors:5596
```

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```
From 7410877503208524661
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
```

X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
newssvr21.news.prodigy.com.POSTED!af499550!not-for-mail
From: "kd5sak" <kd5sak@sbcglobal.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amateur.boatanchors
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <d-
adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net> <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
<FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
<1159385541.965825.190570@d34g2000cwd.googlegroups.com>
<pan.2006.09.27.20.43.09.198072@no.spam.invalid>
Subject: Re: Proposal 3 (US Hams)
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <75DSg.5293$TV3.2834@newssvr21.news.prodigy.com>
NNTP-Posting-Host: 69.148.136.173
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr21.news.prodigy.com 1159396803 ST000 69.148.136.173 (Wed, 27 Sep
2006 18:40:03 EDT)
NNTP-Posting-Date: Wed, 27 Sep 2006 18:40:03 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1:
TSU[@I_AOXT[R\E[OZID]_\@VR]^@B@MCPWZKB]MPXHNDQUBLNTC@AWZWDXZXQ[K\FFSKCVM@F_N_DOBWV
WG__LG@VVOIPLIGX\
\BU_B@\P\PFX\B[APHTWAHDCKJF^NHD[YJAZMCY_CWG[SX\Y]^KC\HSZRWSWKGAY_PC[BQ[BXAS\F\
\@DMTLFZFUE@\VL
Date: Wed, 27 Sep 2006 22:40:03 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7145
rec.radio.amateur.policy:47220 rec.radio.swap:7912
rec.radio.amateur.boatanchors:5597

"Leroy" <no.spam@no.spam.invalid> wrote in message
news:pan.2006.09.27.20.43.09.198072@no.spam.invalid...
> On Wed, 27 Sep 2006 12:32:22 -0700, bob_deep wrote:
> I sometimes listen in on 10 meters but don't hear much there. A bit of CW
> every now and then, but not much of anything, usually. Maybe I'm listening
> at the wrong times? Or is it mostly vacant and just freebanders buying the
> 10 meter rigs?
>
>

Has much to do with where we are in the sunspot cycle. A couple or three
years from now
10 meters will start to be much busier. It's my misfortune I got my upgrade

to General a year before the dead bottom of the cycle. At the age of 74 I'm
just hoping to be around long enough
to see what the high point in the cycle sounds like.(G)

Harold
KD5SAK

From 1957360860712814456
X-Google-Thread: fcc6e,3946db13a1a563fc
X-Google-Thread: 108122,3946db13a1a563fc
X-Google-Thread: fc2a5,3946db13a1a563fc
X-Google-Thread: 10bf43,3946db13a1a563fc
X-Google-Thread: 1109af,3946db13a1a563fc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-mail
From: "kb9rqz-1@hotmail.com" <kb9rqz-1@hotmail.com>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap
Subject: Re: CW not CB
Date: 27 Sep 2006 16:05:20 -0700
Organization: http://groups.google.com
Lines: 13
Message-ID: <1159398320.388587.235320@b28g2000cwb.googlegroups.com>
References: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
   <4nvtacFc77jhU1@individual.net>
NNTP-Posting-Host: 66.82.9.53
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159398325 10123 127.0.0.1 (27 Sep 2006 23:05:25 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Sep 2006 23:05:25 +0000 (UTC)
In-Reply-To: <4nvtacFc77jhU1@individual.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=66.82.9.53;
   posting-account=5Hknag0AAAAYK6HZFUZ0xesJztp68g7I
Xref: g2news2.google.com rec.radio.amateur.antenna:18838
rec.radio.amateur.equipment:6500 rec.radio.amateur.homebrew:7146
rec.radio.amateur.policy:47242 rec.radio.swap:7916

MnMikew wrote:
> "Slow Code" <my.mail@no.spam> wrote in message
> news:twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net...
> > Why are you people against having good hams?

```
> >
> > SC
>
> If you're one then it's already fucked.
sthat heis superior and Wismen in his many avatar is superior and that
Robeson who threatens the murder of people he disagrees with  all are
according to SC superior hams




From 2280243121986082164
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: "kb9rqz-2@hotmail.com" <kb9rqz-2@hotmail.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
Subject: Re: Proposal 3 (US Hams)
Date: 27 Sep 2006 16:11:44 -0700
Organization: http://groups.google.com
Lines: 18
Message-ID: <1159398704.620753.312820@m7g2000cwm.googlegroups.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>
   <d-adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net>
   <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
   <FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
   <1159385541.965825.190570@d34g2000cwd.googlegroups.com>
   <12hlmilh2mu4u46@corp.supernews.com>
NNTP-Posting-Host: 66.82.9.53
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159398709 4593 127.0.0.1 (27 Sep 2006 23:11:49 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Sep 2006 23:11:49 +0000 (UTC)
In-Reply-To: <12hlmilh2mu4u46@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=66.82.9.53;
   posting-account=a7K0SA0AAADJhiRpuowwQAePXZnEQc8e
Xref: g2news2.google.com rec.radio.amateur.homebrew:7147
rec.radio.amateur.policy:47244 rec.radio.swap:7917
rec.radio.amateur.boatanchors:5599

Joel Kolstad wrote:
> <bob_deep@yahoo.com> wrote in message
> news:1159385541.965825.190570@d34g2000cwd.googlegroups.com...
> > I don't think things are all that "unfair" with the maximum code speed
> > we currently test being 5 WPM.
>
> I don't think the code require is necessarily "unfair" somehow, but it does
> seem awfully "arbitrary" these days.  In *today's* world, it's just one mode
> of many, and a rather unpopular one at that.
fair or unfair has nothing to do with the isue relavant to regulaory
need is the issue
>, but I do
> think it seems awfully arbitrary, and this refelcts somewhat poorly on hams as
> a group trying to present themselves as modern and professional.
which means it should go esp as it serves no valid regulatroy prupose
>
> ---Joel Kolstad



From -1202215503628452832
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 27 Sep 2006 18:26:16 -0500
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <d-
adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net> <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
<FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
<1159385541.965825.190570@d34g2000cwd.googlegroups.com>
<pan.2006.09.27.20.43.09.198072@no.spam.invalid>
Subject: Re: Proposal 3 (US Hams)
Date: Wed, 27 Sep 2006 19:26:06 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-Rfc2646: Format=Flowed; Original
Message-ID: <vIidnYm705YFlYbYnZ2dnUVZ_rWdnZ2d@comcast.com>
Lines: 38
NNTP-Posting-Host: 68.61.218.179
X-Trace: sv3-
MXtNPEvzECdRO6OQ6nqBqb6dZQcOcbVotMBuk3ZE3+mqlB5sLNOrbrsbHCjgSAQvoR8nS8qkz0vrWL3!
3ZmvxCa5lknkv2dhMMv0Nj3pUaBeSOFdn2gHxcmwLSeg/SUIjtIXWEGDTc7JdQrOCeGFfNUmXJy2!
lC8Px9U6gsEa2iZk
X-Complaints-To: abuse@comcast.net
```

```
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7148
rec.radio.amateur.policy:47247 rec.radio.swap:7918
rec.radio.amateur.boatanchors:5600


"Leroy" <no.spam@no.spam.invalid> wrote in message
news:pan.2006.09.27.20.43.09.198072@no.spam.invalid...
> On Wed, 27 Sep 2006 12:32:22 -0700, bob_deep wrote:
>

[SNIP]

>
> I was under the impression that CW would get through under worse
> conditions and/or with lower power requirements than other modes.
>

Yes that can be true.  They speak of PSK as being low power but that is only
low transmit power.  It takes more power to generate a 25w PSK signal than a
100watt CW signal.  Computers draw a lot of power.

> Does no one run "flea power" anymore?
>

There are a lot of QRP (low power) hobbyists.

> I sometimes listen in on 10 meters but don't hear much there. A bit of CW
> every now and then, but not much of anything, usually. Maybe I'm listening
> at the wrong times? Or is it mostly vacant and just freebanders buying the
> 10 meter rigs?
>
>

Bad point in the sunspot cycle for 10 meters.  It does open occasionally but
not like it does at the peak of the sunspot cycle.  Right now it is not open
every day (although it may be open for a while each week).  And the time of
day it is open tends to be when people are working, doing errands after
work, etc.

Dee, N8UZE




From 616744899388806209
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
```

```
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 27 Sep 2006 18:32:54 -0500
From: "Dee Flint" <deeflint01@comcast.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net>
<g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
<FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
<1159385541.965825.190570@d34g2000cwd.googlegroups.com>
<efesah$9cf$1@panix2.panix.com>
<1159396575.512792.26990@e3g2000cwe.googlegroups.com>
Subject: Re: Proposal 3 (US Hams)
Date: Wed, 27 Sep 2006 19:32:45 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-Rfc2646: Format=Flowed; Original
Message-ID: <DP-dnRUel627l4bYnZ2dnUVZ_oqdnZ2d@comcast.com>
Lines: 64
NNTP-Posting-Host: 68.61.218.179
X-Trace:
sv3-94EIRq1K3wa8gcaTZdxNS5hchGJWIOupbXVVFIHpigniKuMFLJjqsPGLWa6EcsO0WCYLHa/
QW6NxtBy!
GwTHAruCVlNmok27pG5xtm4aIAYGg2B5LyVhbmifY6bs3UF6sSQRE4xRe2TDhFX78xmoSGHKy3bg!
+PAoPXTDQqcxQE6K
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7149
rec.radio.amateur.policy:47248 rec.radio.swap:7919
rec.radio.amateur.boatanchors:5602
```

<bob_deep@yahoo.com> wrote in message
news:1159396575.512792.26990@e3g2000cwe.googlegroups.com...

>
> Scott Dorsey wrote:
>> <bob_deep@yahoo.com> wrote:
>> >My greatest fear is that the FCC will totally do away with code in it's
>> >testing requirements, which will logically lead to a mass spectrum
>> >reassignment to make more room for voice and we will likely loose our
>> >valuable spectrum space in the process. But once the last license goes
>> >to SK what's to stop the FCC from giving it all away?

>>
>> Well, one of the nice things about code is that you don't _need_ very
>> much bandwidth. And with modern DSP you should be able to make IF
>> filters
>> even narrower than my old R-390... should be possible to cram hundreds of
>> carriers into the space of one SSB channel.
>
> So true, and low bandwidth helps CW get though when SSB would be
> impossible. However, don't forget that CW can be done quite nicely with
> a cheap computer, some simple cables and some free software without
> learning it. I suppose that one could argue that a human ear can hear
> what a computer can't, but I'd be willing to argue that point in favor
> of the computer.
>

Actually, you would lose such an argument. There are many hams who have proven that they can decipher better than the computer. The computer hardware or software requires the following characteristics in the received transmission to work:

1. A strong signal
2. No distortion on the signal such as occurs from aurora, meteor scatter, etc.
3. The code sent is nearly equal in quality to that sent by a computer. Some one using paddles may achieve that but if they are sending with a manual key or bug, that is highly unlikely.

I have frequently been able to copy better than the computer and my code skills are quite modest. The only time it beats me is when the code meets the above three criteria and is too fast for me to copy.

> I'll be willing to bet that there won't be much improvement over CW in
> the raw "get the message though under bad conditions" power with the
> new digital modes using the same bandwidth as CW. Simple is
> under-rated in my book.
>

I'm not sure I understand what you are saying here. Did you leave something out?

> As an operating mode CW is alive and well and likely to stay, however
> it will be computer driven more and more as the art dies off and new
> blood is not required to learn it as well as the old.
>
> Change is neither good or bad, it's just change.
>

While change is neither good or bad, sometimes the results of change can be undesireable.

Dee, N8UZE

```
From -4737046028986431436
X-Google-Thread: fc2a5,59bb9b40ce520a4a
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 27 Sep 2006 18:38:41 -0500
From: "g. beat" <@<spam protected>>
Newsgroups: rec.radio.amateur.homebrew
References: <mOmdnbZ_V8aF3YTYnZ2dnUVZ_q-dnZ2d@comcast.com>
<X92dnUIMY_dbXYTYnZ2dnUVZ_tqdnZ2d@comcast.com>
<4bSdnSadEZmUl4fYnZ2dnUVZ_sCdnZ2d@comcast.com>
Subject: Re: parting out an HP 8557A
Date: Wed, 27 Sep 2006 18:38:35 -0500
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <3fednaXvgeUclobYnZ2dnUVZ_oadnZ2d@comcast.com>
Lines: 14
NNTP-Posting-Host: 67.176.141.93
X-Trace: sv3-
dGJG4rzvmNKyGSFzyYqeaujw1fxTrdBQsdHdDCVgJtHyA88nip5qTeIdnssAed0RlxjowsL2EWIKQBc!
2RvO+l9sWEcumSiEjPd5BuTOWgX54+T7m6MTu+L8f/KdNRKPUsqOB12f4lu2NbAc2wLwUFGPcbtm!
vrX6clHD2QX5rNjLmfE=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7150
```

"Pete KE9OA" <p.gianako@comcast.net> wrote in message
news:4bSdnSadEZmUl4fYnZ2dnUVZ_sCdnZ2d@comcast.com...

> Thanks for the info.....................I've already got an 8558B, so I
> am set. I just removed the knobs for some extras for my own unit. I don't
> have much tied up in this unit, and I have already scrapped it.
>
> Pete

Hopefully you kept the attenuator

w9gb

```
From -5022649802023908811
X-Google-Thread: fc2a5,9ce81ede627419b1
X-Google-Thread: 10bf43,9ce81ede627419b1
X-Google-Thread: 1109af,9ce81ede627419b1
X-Google-Thread: fc8b1,9ce81ede627419b1
X-Google-Attributes: gidfc2a5,gid10bf43,gid1109af,gidfc8b1,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: Mark@kb9rqz.net
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.swap,rec.radio.amate
ur.boatanchors
Subject: Re: Proposal 3 (US Hams)
Date: Wed, 27 Sep 2006 19:38:58 -0400
Message-ID: <rr2mh2dkl99th2pbelssgtvu84jhptu85o@4ax.com>
References: <y3_Rg.1388$Y24.1262@newsread4.news.pas.earthlink.net> <d-
adnaLSJa6364XYnZ2dnUVZ_rednZ2d@gwi.net> <g40vCXBzNU8x-pn2-xidDCXv10dGz@localhost>
<FwiSg.6717$UG4.1286@newsread2.news.pas.earthlink.net>
<1159385541.965825.190570@d34g2000cwd.googlegroups.com>
<pan.2006.09.27.20.43.09.198072@no.spam.invalid>
<vIidnYm705YFlYbYnZ2dnUVZ_rWdnZ2d@comcast.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 42
NNTP-Posting-Date: 27 Sep 2006 22:43:25 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7151
rec.radio.amateur.policy:47249 rec.radio.swap:7920
rec.radio.amateur.boatanchors:5603

On Wed, 27 Sep 2006 19:26:06 -0400, "Dee Flint"
<deeflint01@comcast.net> wrote:

>
>"Leroy" <no.spam@no.spam.invalid> wrote in message
>news:pan.2006.09.27.20.43.09.198072@no.spam.invalid...
>> On Wed, 27 Sep 2006 12:32:22 -0700, bob_deep wrote:
>>
>
>[SNIP]
>
>>
>> I was under the impression that CW would get through under worse
>> conditions and/or with lower power requirements than other modes.
>>
>
>Yes that can be true.  They speak of PSK as being low power but that is only
>low transmit power.  It takes more power to generate a 25w PSK signal than a
>100watt CW signal.  Computers draw a lot of power.
depends on how it is generated
```

```
>
>> Does no one run "flea power" anymore?
>>
>
>There are a lot of QRP (low power) hobbyists.
>
>> I sometimes listen in on 10 meters but don't hear much there. A bit of CW
>> every now and then, but not much of anything, usually. Maybe I'm listening
>> at the wrong times? Or is it mostly vacant and just freebanders buying the
>> 10 meter rigs?
>>
>>
>
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>not like it does at the peak of the sunspot cycle.  Right now it is not open
>every day (although it may be open for a while each week).  And the time of
>day it is open tends to be when people are working, doing errands after
>work, etc.
>
>Dee, N8UZE
>
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com



From 8236807057912113374
X-Google-Thread: fcc6e,3946db13a1a563fc
X-Google-Thread: 108122,3946db13a1a563fc
X-Google-Thread: fc2a5,3946db13a1a563fc
X-Google-Thread: 10bf43,3946db13a1a563fc
X-Google-Thread: 1109af,3946db13a1a563fc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 27 Sep 2006 18:43:32 -0500
Date: Wed, 27 Sep 2006 19:43:36 -0400
From: Dave <W1MCE@comcast.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.4) Gecko/20030624
Netscape/7.1 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy,rec.radio.swap
Subject: Re: CW not CB
References: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
<4nvtacFc77jhU1@individual.net>
<1159398320.388587.235320@b28g2000cwb.googlegroups.com>
```

```
In-Reply-To: <1159398320.388587.235320@b28g2000cwb.googlegroups.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <oaydnYisrsw5kYbYnZ2dnUVZ_rydnZ2d@comcast.com>
Lines: 20
NNTP-Posting-Host: 71.233.173.68
X-Trace:
sv3-903oAAoxhnxfz4XstisXyjNJ3aJFYtlSo0mbu1N3ZlWWMjxM9A1ru4ApAe8b2lGYmwxCeVLyn5QMwm
E!OUEQG++5HIUMQBB8tpBRakn0uopY/0BBbldacFyUjJ4MpMNm81ysqfFXFDleCNNOiK3oQPVE/gme!
xspfS11J4t1LwpO3NbTv
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.antenna:18840
rec.radio.amateur.equipment:6501 rec.radio.amateur.homebrew:7152
rec.radio.amateur.policy:47250 rec.radio.swap:7921

kb9rqz-1@hotmail.com wrote:

> MnMikew wrote:
>
>>"Slow Code" <my.mail@no.spam> wrote in message
>>news:twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net...
>>
>>>Why are you people against having good hams?
>>>
>>>SC
>>
>>If you're one then it's already fucked.
>
> sthat heis superior and Wismen in his many avatar is superior and that
> Robeson who threatens the murder of people he disagrees with  all are
> according to SC superior hams
>

Is this un-readable USA english from a USA ham?



From -2791036517741012811
X-Google-Thread: fc2a5,43d93348367a9ace,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
peer01.cox.net!cox.net!p01!fed1read08.POSTED!53ab2750!not-for-mail
From: "AAA RF Products" <sales@aaarfproducts.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: High Quality RF Connectors, Adapters & Cable Assemblies @ Low Cost
Lines: 16
```

```
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <h2ESg.895$La2.447@fed1read08>
Date: Wed, 27 Sep 2006 16:47:19 -0700
NNTP-Posting-Host: 64.58.166.244
X-Complaints-To: abuse@cox.net
X-Trace: fed1read08 1159400717 64.58.166.244 (Wed, 27 Sep 2006 19:45:17 EDT)
NNTP-Posting-Date: Wed, 27 Sep 2006 19:45:17 EDT
Organization: Cox Communications
Xref: g2news2.google.com rec.radio.amateur.homebrew:7153
```

AAARFProducts.com

Any 10 SMA Male to SMA Male cable assemblies for $99.00

RG-58C/U or RG-223/U

Mix & match any 10

Length available: 12", 18", 24", 30", 36", 48", 60", 72", 84", & 96"

High quality & made in USA

Please visit
AAARFProducts.com

```
From 7456153423118232781
X-Google-Thread: fcc6e,3946db13a1a563fc
X-Google-Thread: 108122,3946db13a1a563fc
X-Google-Thread: fc2a5,3946db13a1a563fc
X-Google-Thread: 10bf43,3946db13a1a563fc
X-Google-Thread: 1109af,3946db13a1a563fc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m7g2000cwm.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups:
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy,rec.radio.swap
Subject: Re: CW not CB
Date: 27 Sep 2006 16:52:09 -0700
Organization: http://groups.google.com
Lines: 17
Message-ID: <1159401129.637366.183720@m7g2000cwm.googlegroups.com>
References: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
   <EqySg.18854$tT6.18444@bignews7.bellsouth.net>
   <1159384748.262629.177230@e3g2000cwe.googlegroups.com>
   <hDBSg.17676$Ij.3549@newssvr14.news.prodigy.com>
NNTP-Posting-Host: 207.200.116.70
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159401134 10748 127.0.0.1 (27 Sep 2006 23:52:14 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 27 Sep 2006 23:52:14 +0000 (UTC)
In-Reply-To: <hDBSg.17676$Ij.3549@newssvr14.news.prodigy.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-tc02.proxy.aol.com[CFC8710A] (Prism/1.1.3), HTTP/1.1 cache-ntc-
ab06.proxy.aol.com[CFC87446] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: m7g2000cwm.googlegroups.com; posting-host=207.200.116.70;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.antenna:18842
rec.radio.amateur.equipment:6502 rec.radio.amateur.homebrew:7154
rec.radio.amateur.policy:47253 rec.radio.swap:7925


Cecil Moore wrote:
> LenAnderson@ieee.org wrote:
> >    My wife and I had aged ham at Easter.  Tasted like chicken.
>
> I have a turkey ham sandwich in my hand at the moment.

   Enjoy!  :-)

   Everyone else ought to remember the definition of ham:  "Ham is
   the butchered meat of swine."




   There...now THAT's a troll!    :-)



From 8666524168445O5606
X-Google-Thread: fcc6e,3946db13a1a563fc
X-Google-Thread: 108122,3946db13a1a563fc
X-Google-Thread: fc2a5,3946db13a1a563fc
X-Google-Thread: 10bf43,3946db13a1a563fc
X-Google-Thread: 1109af,3946db13a1a563fc
X-Google-Attributes: gidfcc6e,gid108122,gidfc2a5,gid10bf43,gid1109af,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!nntpserver.com!
zeus.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: "Mark Morgan" <kb9rqz@blumpkin.net>
Newsgroups:
```

```
rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,r
ec.radio.amateur.policy,rec.radio.swap
References: <twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net>
<4nvtacFc77jhU1@individual.net>
<1159398320.388587.235320@b28g2000cwb.googlegroups.com>
<oaydnYisrsw5kYbYnZ2dnUVZ_rydnZ2d@comcast.com>
Subject: Re: CW not CB
Date: Wed, 27 Sep 2006 20:07:46 -0400
Organization: Blumpkin Specialist
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Lines: 31
Message-ID: <451b0552$0$19695$88260bb3@free.teranews.com>
NNTP-Posting-Date: 27 Sep 2006 23:12:19 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.antenna:18843
rec.radio.amateur.equipment:6503 rec.radio.amateur.homebrew:7155
rec.radio.amateur.policy:47255 rec.radio.swap:7926


"Dave" <W1MCE@comcast.net> wrote in message
news:oaydnYisrsw5kYbYnZ2dnUVZ_rydnZ2d@comcast.com...
> kb9rqz-1@hotmail.com wrote:
>
>> MnMikew wrote:
>>
>>>"Slow Code" <my.mail@no.spam> wrote in message
>>>news:twiSg.6707$UG4.5234@newsread2.news.pas.earthlink.net...
>>>
>>>>Why are you people against having good hams?
>>>>
>>>>SC
>>>
>>>If you're one then it's already fucked.
>>
>> sthat heis superior and Wismen in his many avatar is superior and that
>> Robeson who threatens the murder of people he disagrees with  all are
>> according to SC superior hams
>>
>
> Is this un-readable USA english from a USA ham?
>
with the punce gotcha he wonders why I simple don't bother to ty
 impoving my spelling do u hav anyting cognet two say?

 my blog
 http://www.marksspamblog.blogspot.com/
```

```
--
Posted via a free Usenet account from http://www.teranews.com



From 2588350310674585607
X-Google-Thread: fc2a5,9fb7b5f9b57b3816
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!d34g2000cwd.googlegroups.com!not-for-
mail
From: "ve3ab" <ve3ab@personainternet.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 'Stripping' Enamel Wire.
Date: 20 Sep 2006 14:54:12 -0700
Organization: http://groups.google.com
Lines: 22
Message-ID: <1158789252.815826.301400@d34g2000cwd.googlegroups.com>
References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
NNTP-Posting-Host: 208.96.81.28
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158789257 11873 127.0.0.1 (20 Sep 2006 21:54:17 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 20 Sep 2006 21:54:17 +0000 (UTC)
In-Reply-To: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.0.3705; .NET CLR 1.1.4322; Media Center PC 4.0),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d34g2000cwd.googlegroups.com; posting-host=208.96.81.28;
   posting-account=656IUw0AAAApkRoF_EErV6yRI59jt7FN
Xref: g2news2.google.com rec.radio.amateur.homebrew:7004

Where I once worked..we used a chemical stripper that we brushed on
fine enamel wire.
The insulating enamel would then wipe off. Earl VE3AB
Jim Flanagan wrote:
> Guys..
>    Does anyone have any better method for stripping small, enameled
> wire, other than using sandpaper or an exacto knife (scrapping)?
> There used to be a chemical stripper called 'Xvar', years ago.
> This stuff worked great.  Nasty stuff as you can imagine and has
> been EPA'd years ago.  Is there anything comparable, today?
>
> Also, a retired technician that I once knew had a pair of ingenious
> 'stripper pliers' that he had acquired back in the '60s that did
> a fabulous job.  These pliers had special jaws that would scrape the
> enamel off without nicking the wire.  They worked GREAT.  Supposedly,
> this tool originated from a mfg in Germany.  I have never seen this tool
> since.  Anyone have a lead on something similar?
>
```

> Thanks and take care.
> -jim
> WB5KYE

```
From 5426945914011643697
X-Google-Thread: fc2a5,9fb7b5f9b57b3816
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!
attbi_s21.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
<1158789252.815826.301400@d34g2000cwd.googlegroups.com>
Subject: Re: 'Stripping' Enamel Wire.
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <cYiQg.60441$aJ.21666@attbi_s21>
NNTP-Posting-Host: 12.215.38.98
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1158790024 12.215.38.98 (Wed, 20 Sep 2006 22:07:04 GMT)
NNTP-Posting-Date: Wed, 20 Sep 2006 22:07:04 GMT
Organization: AT&T ASP.att.net
Date: Wed, 20 Sep 2006 22:07:04 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7005
```

Solder strippable wire is also called "Bicelflux wire" and it's a polyurethane enamelled heat removeable insulation. Long ago, I bought several small putups from a no longer remembered US supplier, however, among others, it's available from:

http://www.greenweld.co.uk/acatalog/Shop_Enamelled_49.html

in a variety of wire sizes.

When the insulation is removed with a dollop of molten solder, a toxic gas is released (in small quantities to be sure) and it ought to be done with good ventilation in the workplace.

W4ZCB

```
From 2738407277385780341
X-Google-Thread: fc2a5,9fb7b5f9b57b3816
```

```
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!wns14feed!worldnet.att.net!
attbi_s21.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
<1158789252.815826.301400@d34g2000cwd.googlegroups.com>
Subject: Re: 'Stripping' Enamel Wire.
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <dYiQg.60442$aJ.3400@attbi_s21>
NNTP-Posting-Host: 12.215.38.98
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s21 1158790025 12.215.38.98 (Wed, 20 Sep 2006 22:07:05 GMT)
NNTP-Posting-Date: Wed, 20 Sep 2006 22:07:05 GMT
Organization: AT&T ASP.att.net
Date: Wed, 20 Sep 2006 22:07:05 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7006
```

Solder strippable wire is also called "Bicelflux wire" and it's a polyurethane enamelled heat removeable insulation. Long ago, I bought several small putups from a no longer remembered US supplier, however, among others, it's available from:

http://www.greenweld.co.uk/acatalog/Shop_Enamelled_49.html

in a variety of wire sizes.

When the insulation is removed with a dollop of molten solder, a toxic gas is released (in small quantities to be sure) and it ought to be done with good ventilation in the workplace.

W4ZCB

```
From 7757085337717948600
X-Google-Thread: fc2a5,fd48ecd223e94a0e,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!208.49.83.146.MISMATCH!uns-out.usenetserver.com!
news.usenetserver.com!pc02.usenetserver.com!FUSE.NET-a2kHrUvQQWlmc!not-for-mail
Date: Wed, 20 Sep 2006 21:16:55 -0400
```

```
From: jawod <jawod@fuse.net>
User-Agent: Mozilla Thunderbird 1.0.2 (Macintosh/20050317)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Looking for additional texts on basic receiver design
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <f07a0$4511e89e$4831cd39$17095@FUSE.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 15
X-Trace: f07a04511e89eed94689c17095
Xref: g2news2.google.com rec.radio.amateur.homebrew:7008

Hi,

I am reading the ARRL Handbook on Receiver Design and frankly, I find
it's a bit out of my league.  The writing assumes some knowledge of
circuitry that I am weak on.  Eg., I think I can I can see from the
schematic that an RC circuit is shifting phase in a quadrature amplifier
stage but it's not mentioned in the text as such.

Hopefully, someone out there can get a sense of where I am on the
learning curve and can suggest an appropriate text (not TOO basic, I guess).

Thanks!

John
AB8O



From 7093768282038570793
X-Google-Thread: fc2a5,15dfa0de275033b6,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!0d4b4bc1!not-for-mail
From: "KU4YP" <ku4yp@peoplepc.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Ten Tec part needed
Lines: 10
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <XXnQg.301$o71.183@newsread3.news.pas.earthlink.net>
Date: Thu, 21 Sep 2006 03:48:07 GMT
NNTP-Posting-Host: 4.247.206.252
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1158810487 4.247.206.252 (Wed, 20 Sep
```

2006 20:48:07 PDT)
NNTP-Posting-Date: Wed, 20 Sep 2006 20:48:07 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:7009

hello all,

i need the rf board from a ten tec 509 rig. i had one follow me home but the rf board is missing. i called ten tec and they have all the parts for the board, they just no longer have the board. i am planning to build the final on perf board if i can not find one from a parts rig. the board or rig does not need to be working. i'll fix the board, just wanted to save a little time. any help appreciatred. 73 mike ku4yp

From 2860691607364360836
X-Google-Thread: fc2a5,e278be96f83def33
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 20 Sep 2006 23:29:13 -0500
From: "Tom Coates" <tecoatesHatesSpam@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <buudnX0TCrMjjpPYnZ2dnUVZ_s6dnZ2d@comcast.com>
<c20ug29tmg8kh0n71j7i38tkuuirj6dm5l@4ax.com> <iO2dnfMMCMVXlpLYRVny2w@pipex.net>
<92qug2t2kmggh596voab2puq3veo2hfair@4ax.com>
Subject: Re: K5JHF Morse Code Device, 3.2/3.3
Date: Thu, 21 Sep 2006 00:26:55 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <MuGdnVapE7KEiI_YnZ2dnUVZ_tudnZ2d@comcast.com>
Lines: 23
NNTP-Posting-Host: 69.251.161.44
X-Trace: sv3-c1VOXQtYRbezyYK0XKVQtF5CpUGEDy94RgF+eOH5p+Jtr6Z/
Ql+Mwvnu7qmu2yEnuHHfCoKnyu5G7MH!Gywln9YDz/
JJiN457zLxQfIw7OphkPHnfZoPDmerLs+LZB9CXduhh2ynBVjjrvMhYte9PCHHkcoi!
81QfXXh4xbGEmg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7010

Very interesting. A valuable idea that I never thought of. Thanks!
"Rex" <me@hutmail.invalid> wrote in message

```
news:92qug2t2kmggh596voab2puq3veo2hfair@4ax.com...
> On Mon, 18 Sep 2006 22:12:57 +0100, Highland Ham
> <abcgm0csz.kn6whxyz@dsl.pipex.com> wrote:
>
> >Rex , Thanks for making this prog. freely available , it works very
> >well.  Congrats.
> >The large character display  & voice feedback is excellent for visually
> >impaired users.
> >
> >I have passed the prog on to other hams.
> >
> >
> >Frank     GM0CSZ / KN6WH       north of Scotland UK
>
> You are quite welcome. There are links on my page to other programs and
> information that I found really good too.
>
> -Rex, KK6MK
>
```

```
From -1425830457395858628
X-Google-Thread: fc2a5,cc968d9642484def
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARC-5 Tuning Shaft Adapters
Date: 20 Sep 2006 22:48:54 -0700
Organization: http://groups.google.com
Lines: 47
Message-ID: <1158817734.182477.196020@h48g2000cwc.googlegroups.com>
References: <1158638582.419376.97510@k70g2000cwa.googlegroups.com>
   <1158744728.499428.47000@k70g2000cwa.googlegroups.com>
   <1158774950.297816.34630@b28g2000cwb.googlegroups.com>
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NNTP-Posting-Date: Thu, 21 Sep 2006 05:48:59 +0000 (UTC)
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SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-ta10.proxy.aol.com[CFC87032] (Prism/1.1.3), HTTP/1.1 cache-ntc-
ab08.proxy.aol.com[CFC87448] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
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Injection-Info: h48g2000cwc.googlegroups.com; posting-host=207.200.116.72;
posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:7011

Highland Ham wrote:
> Len Anderson wrote :
> >   Not being a machinist I was hoping someone would come up
> >   with the correct words to describe the splined whatsis so that
> >   I could haunt a few mechanical parts suppliers for something
> >   that would mate smoothly with it. I tried some copper tubing
> >   (pressed over splines) with marginal success (several
> >   diameters, easy to get at do-it-yourself stores for various
> >   small water piping uses) but those bend rather easily. [it's not
> >   too swift when one's home machine shop consists of a Big Lots
> >   table top drill press...:-)]
> ===========================
> Not knowing the equipment being discussed ,I could suggest the following
> general method of extending a 6 -6.35 mm shaft . (6.35mm equals 1/4 inch)
>
> Take 2 (if possible identical) non metallic knobs for the shaft diameter
> concerned ,for example the push-on potmeter knobs found on almost any
> VDU or older TV and BC radio sets , used to push onto splined potmeters .
> Equipment from Asian origin is always metric ,hence shafts dias are 6 mm .
> Fit the 2 knobs concentrically piggy back ,with either epoxy or 2 or 3
> bolts /nuts either metallic or non-metallic (say nylon).
>
> Push/fix 1 knob onto the splined shaft to be extended.
> Fit tubular/solid extension shaft into other side.
>
> If alignment with front panel opening is a problem , glue flexible
> material (for example rubber ,dense foam or expanded polystyrene)in
> between the 2 knobs .   Of course all this provided there is enough
> space in the enclosure.
>
> This method is also very suitable for applications involving components
> with a rotary shaft which should be kept free from ground ,like in
> antenna matching units (tuners) .
>
> If the to be driven shaft has a 1/4 inch diameter the mating knob must
> suit this ,but the other knob can be for a 6mm dia shaft and final front
> panel knob   There is a lot of flexibility.
>
> Frank   GM0CSZ / KN6WH

Good tip, Frank! Thanks but I've tried that before. Depends on the
polymer of the knobs...some can take moderate flexure (usually
polypropylene?) but others (polystyrene) can't.

LenAnderson@ieee.org

```
From -1593249760185563521
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mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 'Stripping' Enamel Wire.
Date: 20 Sep 2006 23:02:46 -0700
Organization: http://groups.google.com
Lines: 97
Message-ID: <1158818566.167463.52730@i42g2000cwa.googlegroups.com>
References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
   <12h2v3ie5b8mqe8@corp.supernews.com>
   <1158775804.834335.33300@h48g2000cwc.googlegroups.com>
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ntc-ta10.proxy.aol.com[CFC87032] (Prism/1.1.3), HTTP/1.1 cache-ntc-
ab08.proxy.aol.com[CFC87448] (Traffic-Server/6.1.2 [uScM])
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Xref: g2news2.google.com rec.radio.amateur.homebrew:7012


Dan Andersson wrote:
> LenAnderson@ieee.org wrote:
>
> > Roy Lewallen wrote:
> >> For a long time, I've used heat-strippable wire which I got surplus. It
> >> can be stripped just by heating at 750-800 degrees for a minute or so
> >> with a soldering iron. The trade name, I believe, is "Solder-eze", but a
> >> web search doesn't reveal a ready source. (I did find a number of people
> >> asking where it could be found, but no responses.) Hopefully a reader
> >> knows of a source and can tell us. A nice summary of various ways to
> >> strip heat-strippable wire is at
> >>
> http://www.ac6rm.net/mailarchive/html/elecraft-list/2005-10/msg00598.html.
> >>
> >> While searching for information on heat-strippable wire, I came across
> >> the suggestion for stripping conventional enameled wire with paint
> >> stripper. Apparently it takes a few minutes, but does work. It's nasty
> >> stuff to work with, though.
> >>
> >> Roy Lewallen, W7EL
> >>
> >> Jim Flanagan wrote:
> >> > Guys..
> >> >   Does anyone have any better method for stripping small, enameled
> >> > wire, other than using sandpaper or an exacto knife (scrapping)?
> >> > There used to be a chemical stripper called 'Xvar', years ago.
> >> > This stuff worked great.  Nasty stuff as you can imagine and has
> >> > been EPA'd years ago.  Is there anything comparable, today?
> >> >
> >> > Also, a retired technician that I once knew had a pair of ingenious
> >> > 'stripper pliers' that he had acquired back in the '60s that did
> >> > a fabulous job.  These pliers had special jaws that would scrape the
> >> > enamel off without nicking the wire.  They worked GREAT.  Supposedly,
> >> > this tool originated from a mfg in Germany.  I have never seen this
> >> > tool
> >> > since.  Anyone have a lead on something similar?
> >> >
> >> > Thanks and take care.
> >> > -jim
> >> > WB5KYE
> >
> >    I mentioned a commercial paint-stripper in here, have tried another
> >    brand.  Wayyyy slow.  Having used commercial paint strippers in
> >    days before EPA had declared nearly everything "toxic, harmful to
> >    health" those paint stripper compounds were a lot stronger.  It
> >    works, sort of, but one can use up a half roll of paper towels to
> >    make a dozen-plus toroid inductors' end-stripping.  [okay, some
> >    exaggeration there]   It is messy and usually takes a second
> >    application of goo to clean it off good enough for soldering.
> >
> >    GONE is good old General Cement "Strip-X" (company says it
> >    has no plans for anything similar in future) and the "Solder-Eze"
> >    is relegated to "old stock."  Since "magnet wire" is still used
> >    in industry, hobbyists need a hint or three from those working
> >    in that area now.
> >
> >    LenAnderson@ieee.org
>
>
> Years ago, working with "Litz wire", I used Red Spirit and a small burner or
> a small blow torch. We dipped the wire in the spirit and then burned it.
>
> I'm not entirely sure if the Litz wires we used had secondary lacquer
> isolation but I think so and that was the major pain with that wire.
>
> A quick heating up and a swipe with a cloth should do it. Red Spirit was
> originally almost clean Ethanol ( While doing my military service in the
> Signal Corps ages ago, we used to nick it and mix it with coke or tonic
> water on Friday evenings... )
>
> Cheers
```

```
>
> Dan / M0DFI
>
> dan.andersson@ieee.org

   Thank you Dan (you spell the surname correctly!).  :-)

   "Red Spirit?"  Unfamiliar term to me on this side of the pond.

   I've tried Toluene and MEK and found them lacking.  Turns out
   that (in varying percentages) are part of the paint stripper goop
   sold in do-it-yourself stores over here.  I can get Ethanol and
   may try that.

   In years past, the General Cement Company of Rockford, Illinois,
   had a blackish goop they marketed for stripping magnet wire.
   Worked extremely well, dip once, let it sit for a minute and the
   enamel coating can be seen to actually lift off of the wire.  One
   wipe and the wire surface is free, ready to solder.  Had a
   definite acid content from the smell of it (sharp, acrid).  The
   tradename was either "Strip-X" or "Strip-Var," not sure which
   now.  :-(   Mine was used up years ago, bottle tossed out.

   LenAnderson@ieee.org



From 2271007459313603055
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supernews.com!corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 'Stripping' Enamel Wire.
Date: Thu, 21 Sep 2006 06:29:18 -0000
Organization: Home for Obscure Mythical Beings
Message-ID: <12h4c9u6j146m26@corp.supernews.com>
References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
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<1158818566.167463.52730@i42g2000cwa.googlegroups.com>
X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
X-Complaints-To: abuse@supernews.com
Lines: 28
Xref: g2news2.google.com rec.radio.amateur.homebrew:7013

In article <1158818566.167463.52730@i42g2000cwa.googlegroups.com>,
```

LenAnderson@ieee.org <LenAnderson@ieee.org> wrote:

> In years past, the General Cement Company of Rockford, Illinois,
> had a blackish goop they marketed for stripping magnet wire.
> Worked extremely well, dip once, let it sit for a minute and the
> enamel coating can be seen to actually lift off of the wire. One
> wipe and the wire surface is free, ready to solder. Had a
> definite acid content from the smell of it (sharp, acrid). The
> tradename was either "Strip-X" or "Strip-Var," not sure which
> now. :-(Mine was used up years ago, bottle tossed out.

GC Electronics "Strip-X", I assume? I found a MSDS which states that
it's 70% methylene chloride, 25% cresol (isomers of cresylic acid),
around 5% ammonia, plus some wax and thickening agents.

One poster stated that it was designed to work with Formvar
insulation, and might not work as well on the newer Polythermaleze
insulation.

I don't see it in their current catalog... probably gone where the
goblins go, yo ho!

--
Dave Platt <dplatt@radagast.org>   AE6EO
Hosting the Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

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From -3633345942399579l8
X-Google-Thread: fc2a5,9fb7b5f9b57b3816
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posts.news.sonic.net!nnrp0.nntp.sonic.net!not-for-mail
From: Rex  <me@hutmail.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 'Stripping' Enamel Wire.
Date: Thu, 21 Sep 2006 00:17:34 -0700
Message-ID: <h7e4h2ht56ajvjjlk6vrtdfed5ed2efc3n@4ax.com>
References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
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MIME-Version: 1.0
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X-Complaints-To: abuse@sonic.net
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Xref: g2news2.google.com rec.radio.amateur.homebrew:7014

On Wed, 20 Sep 2006 11:38:06 GMT, Jim Flanagan <jflan@tampabay.rr.com>
wrote:

>Guys..
>   Does anyone have any better method for stripping small, enameled
>wire, other than using sandpaper or an exacto knife (scrapping)?
>There used to be a chemical stripper called 'Xvar', years ago.
>This stuff worked great. Nasty stuff as you can imagine and has
>been EPA'd years ago. Is there anything comparable, today?
>
>Also, a retired technician that I once knew had a pair of ingenious
>'stripper pliers' that he had acquired back in the '60s that did
>a fabulous job. These pliers had special jaws that would scrape the
>enamel off without nicking the wire. They worked GREAT. Supposedly,
>this tool originated from a mfg in Germany. I have never seen this tool
>since. Anyone have a lead on something similar?
>
>Thanks and take care.
>-jim
>WB5KYE

I had occasion recently to wind a couple coils. Checked my stash and found two different kinds of 30 ga enameled wire. I thought I'd try tinning the ends of the wires without stripping. One of the wires soldered very easily in a few seconds so must have been heat/self-stripping. The second sample didn't solder as easily, but I kept the wire in ball of molten solder for 10's of seconds and eventually the enamel melted off and formed sludge on the surface of the solder ball. Cleaned the corrupted solder off the iron tip and the wire tinned up ok.

Not sure if the second one was normal enamel or just a slower version of self-strippable wire. Might be worth trying to just melt the enamel off in a ball of solder like I did.

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Message-ID: <gn8ZtfEd0jEFFAJD@ifwtech.co.uk>
Date: Thu, 21 Sep 2006 08:19:57 +0100
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Reply-To: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 'Stripping' Enamel Wire.

References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
<1158789252.815826.301400@d34g2000cwd.googlegroups.com>
<cYiQg.60441$aJ.21666@attbi_s21>
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Lines: 55
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X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7015

Harold E. Johnson wrote:

> Solder strippable wire is also called "Bicelflux wire" and it's a polyurethane enamelled heat removeable insulation. Long ago, I bought several small putups from a no longer remembered US supplier, however, among others, it's available from:
>
> http://www.greenweld.co.uk/acatalog/Shop_Enamelled_49.html
>
> in a variety of wire sizes.
>
> When the insulation is removed with a dollop of molten solder, a toxic gas is released (in small quantities to be sure) and it ought to be done with good ventilation in the workplace.

There are two totally different families of enameled wire, and the original question didn't say which one.

For the pretty-coloured polyurethane enamels, solder stripping is the way to go. As Harold says, that is how they are designed to be stripped. Professionals use a solder pot, while the rest of us make do with a big bead of molten solder on the tip of the iron. Don't use a flame for solder-strippable wire - it's too hot, and charred polyurethane enamel sticks to the wire.

Heated for long enough at the right temperature, the enamel comes right off with no scraping required. The decomposing enamel also acts as a solder flux, so the stripped end is bright and ready-tinned.

The other type of enamel is usually brown - some of it is your grandfather's brown lacquer, but the modern stuff is not.

The really old stuff can be charred in a spirit burner (chosen for its cool flame which doesn't oxidize the copper) and the loose carbon scrapes off easily. Note: this is the *only* kind of enamel that is suitable for flame stripping.

The modern brown enamels are totally different. They are mainly intended for motor and transformer windings, are often double-coated, and are specifically designed to be heat-resistant and tough as old boots. They are almost as tough as the copper underneath... and there's your problem in stripping it.

This stuff laughs at molten solder and spirit burners. Heat stripping is no good because flame temperatures high enough to decompose the enamel will also oxidize the copper underneath. As far as I know, the only ways to remove it are by scraping, sandpapering or filing... all of which are difficult to do without nicking the copper wire.

So how do the professional winding shops do it?

--
73 from Ian GM3SEK   'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

From -8391188067754998085
X-Google-Thread: fc2a5,9fb7b5f9b57b3816
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From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
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Subject: Re: 'Stripping' Enamel Wire.
Lines: 27
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X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
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Organization: AT&T ASP.att.net
Date: Thu, 21 Sep 2006 11:20:21 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7016

> This stuff laughs at molten solder and spirit burners. Heat stripping is

> no good because flame temperatures high enough to decompose the enamel
> will also oxidize the copper underneath. As far as I know, the only ways
> to remove it are by scraping, sandpapering or filing... all of which are
> difficult to do without nicking the copper wire.
>
> So how do the professional winding shops do it?
>
> --
> 73 from Ian GM3SEK

GM Ian, guess you're getting used to the Highlands by now. Had a great trip to Scotland for 3 weeks in June, Blair Athol to Glencoe. Not long enough though. Yes, Polythermaleze and heavy polythermaleze and Formvar are the chrome vanadium steel of insulations. If you want to wind wire tightly around a faceted diamond without damaging the insulation, those are what you use. Basically, One divided by Bicelflux.

Professional winding shops invest in a machine that looks and operates somewhat like an electric pencil sharpener. It abrades the insulation and is automatically set for each different wire size. Needless to say, they come a bit dear. (Not as dear as diesel fuel in Pitlochry, but dear!)

Regards
W4ZCB

From -8513589826397415634
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From: "amdx" <amdx@knology.net>
Newsgroups: rec.radio.amateur.homebrew
References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
Subject: Re: 'Stripping' Enamel Wire.
Date: Thu, 21 Sep 2006 07:01:18 -0500
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Lines: 26
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Xref: g2news2.google.com rec.radio.amateur.homebrew:7017

"Jim Flanagan" <jflan@tampabay.rr.com> wrote in message
news:yK9Qg.1384$K02.6@tornado.tampabay.rr.com...
> Guys..
>   Does anyone have any better method for stripping small, enameled
> wire, other than using sandpaper or an exacto knife (scrapping)?
> There used to be a chemical stripper called 'Xvar', years ago.
> This stuff worked great. Nasty stuff as you can imagine and has
> been EPA'd years ago. Is there anything comparable, today?
>
> Also, a retired technician that I once knew had a pair of ingenious
> 'stripper pliers' that he had acquired back in the '60s that did
> a fabulous job. These pliers had special jaws that would scrape the
> enamel off without nicking the wire. They worked GREAT. Supposedly,
> this tool originated from a mfg in Germany. I have never seen this tool
> since. Anyone have a lead on something similar?
>
> Thanks and take care.
> -jim
> WB5KYE

I posted a picture of a very useful hand stipper I have been using for
about 24 years, See it on alt.binaires.schematics.electronics under
"Wire stripper for RRAH".

From -7861729145725578339
X-Google-Thread: fc2a5,8f2283a1415ca7e,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!peer01.cox.net!cox.net!p01!
fed1read04.POSTED!53ab2750!not-for-mail
From: "Caveat Lector" <CL@nowhere.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: FYI: 21,000+ Calculators
Lines: 36
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <MJxQg.1806$nm1.1606@fed1read04>
Date: Thu, 21 Sep 2006 07:55:52 -0700
NNTP-Posting-Host: 72.197.12.245
X-Complaints-To: abuse@cox.net
X-Trace: fed1read04 1158850540 72.197.12.245 (Thu, 21 Sep 2006 10:55:40 EDT)
NNTP-Posting-Date: Thu, 21 Sep 2006 10:55:40 EDT
Organization: Cox Communications
Xref: g2news2.google.com rec.radio.amateur.homebrew:7018

You folks will love this site

http://www.martindalecenter.com/Calculators.html

AGRICULTURE
(Agribusiness, Soil, Water, Aquaculture, Beekeeping,
Fertilizer, Crops, Vegetables, Livestock)

MATHEMATICS ~ STATISTICS

ARCHAEOLOGY & ANTHROPOLOGY
BIOSCIENCE & BIOTECHNOLOGY
GEOSCIENCE, METALS & ALLOYS
METEOROLOGY & RADIATION

CHEMISTRY
(Lab Experiments & Demonstrations, Chromatography, Crystallography,
Gas Mixtures, Microscopy, Physical Chemistry, Polymer Chemistry,
Quantum Chemistry, Spectroscopy, Thermodynamics, etc.)

PHYSICS, ASTROPHYSICS & ASTRONOMY

ENGINEERING: A-Z

ELECTRICAL ENGINEERING
COMPUTER SYSTEMS ENGINEERING
CYBERINFRASTRUCTURE SYSTEMS
& COMPUTER SCIENCE

```
From 6477011082882981141
X-Google-Thread: fc2a5,fd48ecd223e94a0e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-mail
From: "Denny" <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for additional texts on basic receiver design
Date: 21 Sep 2006 08:50:23 -0700
Organization: http://groups.google.com
Lines: 7
Message-ID: <1158853823.078243.28800@b28g2000cwb.googlegroups.com>
References: <f07a0$4511e89e$4831cd39$17095@FUSE.NET>
NNTP-Posting-Host: 24.247.246.156
Mime-Version: 1.0
```

Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158853827 5377 127.0.0.1 (21 Sep 2006 15:50:27 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Sep 2006 15:50:27 +0000 (UTC)
In-Reply-To: <f07a0$4511e89e$4831cd39$17095@FUSE.NET>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=24.247.246.156;
   posting-account=GhrC0g0AAACdrABM-CDx8Fhs5lKJR5q2
Xref: g2news2.google.com rec.radio.amateur.homebrew:7019

I suggest "Experimental methods in RF Design" if that is not the one
you are using... If it is the one, you need to start by building a few
of the basic blocks, RF amp, Mixer, IF amp, AGC, etc. one at a time and
then combining them...

denny / k8do

From -7997253279542145361
X-Google-Thread: fc2a5,9fb7b5f9b57b3816
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: "RST Engineering" <jim@rstengineering.com>
Newsgroups: rec.radio.amateur.homebrew
References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
<h7e4h2ht56ajvjjlk6vrtdfed5ed2efc3n@4ax.com>
Subject: Re: 'Stripping' Enamel Wire.
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <fKyQg.92$%e4.44076@news.sisna.com>
Date: Thu, 21 Sep 2006 09:04:16 -0700
NNTP-Posting-Host: 70.41.242.222
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1158854667 70.41.242.222 (Thu, 21 Sep 2006 10:04:27 MDT)
NNTP-Posting-Date: Thu, 21 Sep 2006 10:04:27 MDT
Organization: Internet News Service
X-Received-Date: Thu, 21 Sep 2006 10:04:27 MDT (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7020

Depends a lot on the type of "enamel" that you are dealing with. As noted
elsewhere, some is fairly simple to do with hot solder and some is resistant
to thermonuclear techniques.

I've been successful with one of two methods on most of the stuff.

As noted, a solder pot (fairly cheap, by electronics tool standards) will do the job nicely on 90% of enamel wire.

Or, a professional paint store (NOT HandyAndy) has a parTICularly nasty chemical paint stripper called "Aircraft Paint Stripper", mostly methylene chloride which is highly toxic. About five minutes soak in that would strip the chrome from a trailer hitch. Don't sit in a spill of the stuff or you'll be talking in a high squeaky voice for the rest of your life.

Jim

```
From -3786892183186109696
X-Google-Thread: fc2a5,9fb7b5f9b57b3816
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newscon02.news.prodigy.net!prodigy.net!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: "RST Engineering" <jim@rstengineering.com>
Newsgroups: rec.radio.amateur.homebrew
References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
<12h2v3ie5b8mqe8@corp.supernews.com>
<1158775804.834335.33300@h48g2000cwc.googlegroups.com>   <8e-
dnYP_HZgaLYzYRVnyiw@eclipse.net.uk>
<1158818566.167463.52730@i42g2000cwa.googlegroups.com>
Subject: Re: 'Stripping' Enamel Wire.
Lines: 20
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <NKyQg.93$Y55.194749@news.sisna.com>
Date: Thu, 21 Sep 2006 09:04:48 -0700
NNTP-Posting-Host: 70.41.242.222
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1158854701 70.41.242.222 (Thu, 21 Sep 2006 10:05:01 MDT)
NNTP-Posting-Date: Thu, 21 Sep 2006 10:05:01 MDT
Organization: Internet News Service
X-Received-Date: Thu, 21 Sep 2006 10:05:02 MDT (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7021
```

Depends a lot on the type of "enamel" that you are dealing with. As noted elsewhere, some is fairly simple to do with hot solder and some is resistant to thermonuclear techniques.

I've been successful with one of two methods on most of the stuff.

As noted, a solder pot (fairly cheap, by electronics tool standards) will do the job nicely on 90% of enamel wire.

Or, a professional paint store (NOT HandyAndy) has a parTICularly nasty chemical paint stripper called "Aircraft Paint Stripper", mostly methylene chloride which is highly toxic. About five minutes soak in that would strip the chrome from a trailer hitch. Don't sit in a spill of the stuff or you'll be talking in a high squeaky voice for the rest of your life.

Jim

From 7581065075731213803
X-Google-Thread: fc2a5,fd48ecd223e94a0e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx02.iad01.newshosting.com!newshosting.com!
208.49.83.146.MISMATCH!uns-out.usenetserver.com!news.usenetserver.com!
pc03.usenetserver.com!FUSE.NET-a2kHrUvQQWlmc!not-for-mail
Date: Thu, 21 Sep 2006 16:50:24 -0400
From: jawod <jawod@fuse.net>
User-Agent: Mozilla Thunderbird 1.0.2 (Macintosh/20050317)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for additional texts on basic receiver design
References: <f07a0$4511e89e$4831cd39$17095@FUSE.NET>
<1158853823.078243.28800@b28g2000cwb.googlegroups.com>
In-Reply-To: <1158853823.078243.28800@b28g2000cwb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <51085$4512fb81$4831cd39$1050@FUSE.NET>
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 12
X-Trace: 510854512fb81ed94689c01050
Xref: g2news2.google.com rec.radio.amateur.homebrew:7022

Denny wrote:
> I suggest "Experimental methods in RF Design" if that is not the one
> you are using... If it is the one, you need to start by building a few
> of the basic blocks, RF amp, Mixer, IF amp, AGC, etc. one at a time and
> then combining them...
>
> denny / k8do

>
Thanks, Denny. I just ordered it.

John
AB8O

From -4985947916337459696
X-Google-Thread: fc2a5,fd48ecd223e94a0e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i42g2000cwa.googlegroups.com!not-for-mail
From: dkelly42@cox.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for additional texts on basic receiver design
Date: 21 Sep 2006 16:53:36 -0700
Organization: http://groups.google.com
Lines: 19
Message-ID: <1158882816.046966.91860@i42g2000cwa.googlegroups.com>
References: <f07a0$4511e89e$4831cd39$17095@FUSE.NET>
   <1158853823.078243.28800@b28g2000cwb.googlegroups.com>
   <51085$4512fb81$4831cd39$1050@FUSE.NET>
NNTP-Posting-Host: 70.189.116.66
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158882820 11608 127.0.0.1 (21 Sep 2006 23:53:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 21 Sep 2006 23:53:40 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.0; .NET CLR 2.0.50727),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i42g2000cwa.googlegroups.com; posting-host=70.189.116.66;
   posting-account=9FuoIQ0AAABvVM7UDN9Dqr_lsHKX7nWT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7023

FYI fellas,

http://groups.yahoo.com/group/emrfd/messages

K5UOS

> Denny wrote:
> > I suggest "Experimental methods in RF Design" if that is not the one
> > you are using... If it is the one, you need to start by building a few
> > of the basic blocks, RF amp, Mixer, IF amp, AGC, etc. one at a time and
> > then combining them...
> >
> > denny / k8do
> >
> Thanks, Denny. I just ordered it.
>

> John
> AB8O

```
From -8908094842418023585
X-Google-Thread: fc2a5,fd48ecd223e94a0e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 21 Sep 2006 19:35:50 -0500
From: "Tom Coates" <tecoatesHatesSpam@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
References: <f07a0$4511e89e$4831cd39$17095@FUSE.NET>
Subject: Re: Looking for additional texts on basic receiver design
Date: Thu, 21 Sep 2006 20:33:27 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <D_SdnV67-Id7so7YnZ2dnUVZ_r6dnZ2d@comcast.com>
Lines: 26
NNTP-Posting-Host: 69.251.161.44
X-Trace: sv3-
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znXWXEcFLk0UNKKP1OewZu/kR89IWY2kRgDMyBslDsEs3+hDbT2Zp99NOSkg1JcpE/BRgWOEGkUi!
M2VVGpfkI56l3g==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7024
```

How about a website filled with practical wisdom?
http://www.shelbrook.com/~ve7ca/

Tom N3IJ

"jawod" <jawod@fuse.net> wrote in message
news:f07a0$4511e89e$4831cd39$17095@FUSE.NET...

> Hi,
>
> I am reading the ARRL Handbook on Receiver Design and frankly, I find
> it's a bit out of my league. The writing assumes some knowledge of
> circuitry that I am weak on. Eg., I think I can I can see from the
> schematic that an RC circuit is shifting phase in a quadrature amplifier
> stage but it's not mentioned in the text as such.
>

> Hopefully, someone out there can get a sense of where I am on the
> learning curve and can suggest an appropriate text (not TOO basic, I
guess).
>
> Thanks!
>
> John
> AB8O

From 3057453373530663354
X-Google-Thread: fc2a5,5beea0bdbe9fe6d4,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-mail
From: "ungvichian" <ungvichian@thaimail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: An IC-based stereo radio design...
Date: 21 Sep 2006 21:46:24 -0700
Organization: http://groups.google.com
Lines: 12
Message-ID: <1158900384.831923.204420@b28g2000cwb.googlegroups.com>
NNTP-Posting-Host: 161.200.255.164
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158900388 5099 127.0.0.1 (22 Sep 2006 04:46:28 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Sep 2006 04:46:28 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; .NET CLR
1.0.3705),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=161.200.255.164;
   posting-account=0rYhVgwAAAA-O4Cy8A_vZHWxsuEpc_Qx
Xref: g2news2.google.com rec.radio.amateur.homebrew:7025

I dunno if anyone here is good enough to know, but it's worth giving a
shot... I stumbled on a website
(http://mikroelektronika.co.yu/english/product/books/rrbook/chapter4/chapter4a.htm
)on how radios work, and how they can be made with various IC parts, I
studied the IC parts in question (via datasheets and stuff), and came
up with a plan for a radio that runs in stereo on both bands:

http://i9.photobucket.com/albums/a77/Rover_Wow/AMFM.png

I know the voltage is sound (4.5-6.0 V), but how good would it work,
and how much would it cost to make?

From -4476778182726916889
X-Google-Thread: fc2a5,fd48ecd223e94a0e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!d34g2000cwd.googlegroups.com!not-for-mail
From: "Tim Shoppa" <shoppa@trailing-edge.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for additional texts on basic receiver design
Date: 22 Sep 2006 03:35:50 -0700
Organization: http://groups.google.com
Lines: 28
Message-ID: <1158921350.389212.254540@d34g2000cwd.googlegroups.com>
References: <f07a0$4511e89e$4831cd39$17095@FUSE.NET>
NNTP-Posting-Host: 63.73.218.131
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158921355 5667 127.0.0.1 (22 Sep 2006 10:35:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Sep 2006 10:35:55 +0000 (UTC)
In-Reply-To: <f07a0$4511e89e$4831cd39$17095@FUSE.NET>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.2.1) Gecko/20030225,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d34g2000cwd.googlegroups.com; posting-host=63.73.218.131;
   posting-account=mAyfxAwAAABWbrxnXxYpn9RczUJc3B8w
Xref: g2news2.google.com rec.radio.amateur.homebrew:7026

jawod wrote:

> Hi,
>
> I am reading the ARRL Handbook on Receiver Design and frankly, I find it's a bit out of my league. The writing assumes some knowledge of circuitry that I am weak on. Eg., I think I can I can see from the schematic that an RC circuit is shifting phase in a quadrature amplifier stage but it's not mentioned in the text as such.
>
> Hopefully, someone out there can get a sense of where I am on the learning curve and can suggest an appropriate text (not TOO basic, I guess).

Those writing "popular" (including ARRL) tech books are told not to include any equations for better or worse. The ARRL books are not bad as cookbooks but they skip a lot of steps leading up to understanding why all those parts are there :-).

If you are looking for good readable books that build up from basics and do not shirk at all from equations/analysis/calculus, try:

The Art of Electronics, Horowitz&Hill, for general electronics and a tiny bit of radio. Begins to do noise analysis, PLL's, etc.

Communication Circuit Analysis and Design, Clark&Hess, for excellent

RF/mixer/modulator/demodulator stuff.

Tim.

From -1257339099647013754
X-Google-Thread: fc2a5,fd48ecd223e94a0e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!d34g2000cwd.googlegroups.com!not-for-mail
From: "Denny" <k8do@mailblocks.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for additional texts on basic receiver design
Date: 22 Sep 2006 04:21:19 -0700
Organization: http://groups.google.com
Lines: 13
Message-ID: <1158924079.463051.181850@d34g2000cwd.googlegroups.com>
References: <f07a0$4511e89e$4831cd39$17095@FUSE.NET>
   <1158853823.078243.28800@b28g2000cwb.googlegroups.com>
   <51085$4512fb81$4831cd39$1050@FUSE.NET>
NNTP-Posting-Host: 24.247.246.156
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158924084 31973 127.0.0.1 (22 Sep 2006 11:21:24 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Sep 2006 11:21:24 +0000 (UTC)
In-Reply-To: <51085$4512fb81$4831cd39$1050@FUSE.NET>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d34g2000cwd.googlegroups.com; posting-host=24.247.246.156;
   posting-account=GhrC0g0AAACdrABM-CDx8Fhs5lKJR5q2
Xref: g2news2.google.com rec.radio.amateur.homebrew:7027

Wes Haywood and his buddy have forgotten more about working electronics than many of the published authors will ever know... I have used and modified parts of their circuits for decades... I still find somehting new to play with everytime I dive into my dog eared copy... Enjoy...

denny

> >
> Thanks, Denny. I just ordered it.
>
> John
> AB8O

From -1410499588473488949

```
X-Google-Thread: fc2a5,fd48ecd223e94a0e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-
mail
From: "Dr. Jeff" <drjeff@optonline.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for additional texts on basic receiver design
Date: 22 Sep 2006 06:40:15 -0700
Organization: http://groups.google.com
Lines: 29
Message-ID: <1158932415.343329.114810@h48g2000cwc.googlegroups.com>
References: <f07a0$4511e89e$4831cd39$17095@FUSE.NET>
NNTP-Posting-Host: 67.82.230.184
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158932420 32361 127.0.0.1 (22 Sep 2006 13:40:20 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Sep 2006 13:40:20 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.4) Gecko/
20030624 Netscape/7.1 (ax),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: h48g2000cwc.googlegroups.com; posting-host=67.82.230.184;
   posting-account=ches2w0AAAAxiUgqFz7seebKhIc6dG9S
Xref: g2news2.google.com rec.radio.amateur.homebrew:7028
```

One of the best books, if you can find a copy, is "Solid State Design For The Radio Amateur" that was published by the ARRL in 1977, written by Doug DeMaw and Wes Hayword. It covers theory and modeling, as well as practical hands on building of RF receivers and transmitters. (Why the ARRL doesn't re-publish this great book is beyond me...)
On a simpler level, any of the the "Notebook" series of books by Doug DeMaw is a good place to learn about practical RF circuits and radio design.

Jeff

jawod wrote:
> Hi,
>
> I am reading the ARRL Handbook on Receiver Design and frankly, I find it's a bit out of my league. The writing assumes some knowledge of circuitry that I am weak on. Eg., I think I can I can see from the schematic that an RC circuit is shifting phase in a quadrature amplifier stage but it's not mentioned in the text as such.
>
> Hopefully, someone out there can get a sense of where I am on the learning curve and can suggest an appropriate text (not TOO basic, I guess).
>
> Thanks!
>

> John
> AB8O

From -5033942972875419628
X-Google-Thread: fc2a5,15dfa0de275033b6
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-mail
From: pdrahn@coinet.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Ten Tec part needed
Date: 22 Sep 2006 09:40:16 -0700
Organization: http://groups.google.com
Lines: 18
Message-ID: <1158943216.805291.277860@e3g2000cwe.googlegroups.com>
References: <XXnQg.301$o71.183@newsread3.news.pas.earthlink.net>
NNTP-Posting-Host: 72.0.176.129
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158943222 26883 127.0.0.1 (22 Sep 2006 16:40:22 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Fri, 22 Sep 2006 16:40:22 +0000 (UTC)
In-Reply-To: <XXnQg.301$o71.183@newsread3.news.pas.earthlink.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=72.0.176.129;
   posting-account=GgVUuwwAAADBZnuydJvXVehACQusOfAe
Xref: g2news2.google.com rec.radio.amateur.homebrew:7029

Contact Ten-Tec again and see if they have the "Gerber" files archived somewhere and will send them to you so you can have a board made. Send the Gerber files to any of the board houses and they will make you a board to match. May be a little costly for just one board.

Paul, KD7HB

KU4YP wrote:
> hello all,
>
>   i need the rf board from a ten tec 509 rig. i had one follow me home but
> the rf board is missing. i called ten tec and they have all the parts for
> the board, they just no longer have the board. i am planning to build the
> final on perf board if i can not find one from a parts rig. the board or rig
> does not need to be working. i'll fix the board, just wanted to save a
> little time. any help appreciatred. 73 mike ku4yp

```
From -6985442203430557968
X-Google-Thread: fc2a5,a9b2f688549d6e63,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.75.MISMATCH!hwmnpeer01.lga!news.highwinds-media.com!news-
server.columbus.rr.com!cyclone2.kc.rr.com!news2.kc.rr.com!
tornado.socal.rr.com.POSTED!53ab2750!not-for-mail
From: "Don Hendrix" <sales@aaarfproducts.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Top Quality RF Connectors, Adapters, Cable Assemblies & More
Lines: 3
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <ajXQg.8205$xg7.7410@tornado.socal.rr.com>
Date: Fri, 22 Sep 2006 20:02:14 GMT
NNTP-Posting-Host: 66.74.102.253
X-Complaints-To: abuse@rr.com
X-Trace: tornado.socal.rr.com 1158955334 66.74.102.253 (Fri, 22 Sep 2006 13:02:14
PDT)
NNTP-Posting-Date: Fri, 22 Sep 2006 13:02:14 PDT
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7030
```

Please visit AAARFProducts.com

```
From 9219177461836098665
X-Google-Thread: fc2a5,fd48ecd223e94a0e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for additional texts on basic receiver design
Date: 22 Sep 2006 17:16:29 -0700
Organization: http://groups.google.com
Lines: 27
Message-ID: <1158970589.600451.287490@m73g2000cwd.googlegroups.com>
References: <f07a0$4511e89e$4831cd39$17095@FUSE.NET>
NNTP-Posting-Host: 207.200.116.71
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158970595 22641 127.0.0.1 (23 Sep 2006 00:16:35 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 23 Sep 2006 00:16:35 +0000 (UTC)
```

User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 Turboweb [ntc-te054 8.4.1], HTTP/1.1 cache-ntc-ab07.proxy.aol.com[CFC87447] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=207.200.116.71;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:7032

jawod wrote:
> Hi,
>
> I am reading the ARRL Handbook on Receiver Design and frankly, I find
> it's a bit out of my league. The writing assumes some knowledge of
> circuitry that I am weak on. Eg., I think I can I can see from the
> schematic that an RC circuit is shifting phase in a quadrature amplifier
> stage but it's not mentioned in the text as such.
>
> Hopefully, someone out there can get a sense of where I am on the
> learning curve and can suggest an appropriate text (not TOO basic, I guess).
>
> Thanks!
>
> John
> AB8O

I would suggest "Solid State Radio Engineering" by Herbert L.
Krauss, Charles W. Bostian, and Frederick H. Raab, John
Wiley & Sons, 1980. It covers radios for a lot of radio services,
isn't confined to amateur radio practice. Hardcover 534 pp.
Check used book listings on Amazon. Not one for Basic
Training but its not for PhD studies, either. Solid information
(no pun intended). It has nice illustrations. :-)

LenAnderson@ieee.org

From -2280057751560325250
X-Google-Thread: fc2a5,e76e75818396a3e8,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Fri, 22 Sep 2006 23:17:11 -0500
From: "Tom Coates" <tecoatesHatesSpam@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: ARRL "Homebrew Challenge"
Date: Sat, 23 Sep 2006 00:14:50 -0400
X-Priority: 3

X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
Lines: 23
NNTP-Posting-Host: 69.251.161.44
X-Trace: sv3-pPbPsCsBKVbD41AiKWC/
1NZgpM1g9ZxniFva9zMfoktrLbtnavLFYUDMdqvq0LOH57ygOhsSbRBMJ7S!
Gla4G4YEwr0kNqkeQDQsxG+ks8zIfpLMdngXz0waq0c74eUNB9ojUCAW4MqqWxh4tRnCruHY+3qj!
pMDb76R+eLYTlg==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7033

ARRL has announced a design competition that some of you may not have heard of. The objective is to produce a CW and SSB transceiver with at least 5 watts of output on 40 meters. Components must be commercially available. The total cost of all components (except key, mic and power supply) must not exceed $50. Any instruments beyond a multimeter must be in the $50. Complete information is at http://www.arrl.org/qst/hbc/. Credit for the original idea goes to N4AUP/9. All components of the entry must arrive at ARRL by next August. The winning entry will be the subject of a QST article.

I would hope that the winning entry would also appear in the ARRL Handbook and the "Now You're Talking" book. It would also be desirable for this contest repeat every two years, alternating with an SSB/CW transceiver for a single VHF or UHF band, or perhaps for two bands most suitable for working the low-orbit satellites: something worthwhile for new Technicians to build (such a competition might have a higher limit than $50).

The idea that new hams could again build their own stations using money earned after school is very appealing. That was a plausible objective in the 1960s, because of the availability of components from obsolete TVs.

Tom, N3IJ

From -3671304703489323130
X-Google-Thread: fc2a5,1f83214b1f25a105,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc08.POSTED!3b5fc0bf!not-for-mail
From: "Paul P" <paulREMOVE@REMOVEppinyotREMOVE.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: OT - Knight KG-687 Sweep Generator

Lines: 21
Organization: www.ppinyot.com
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <VR2Rg.397$KK.313@trnddc08>
Date: Sat, 23 Sep 2006 04:37:09 GMT
NNTP-Posting-Host: 71.253.57.117
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc08 1158986229 71.253.57.117 (Sat, 23 Sep 2006 00:37:09 EDT)
NNTP-Posting-Date: Sat, 23 Sep 2006 00:37:09 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7034

Good morning all. I picked up a sweep generator at a local ham fest. A
Knight KG-687 Sweep Generator. I figure that I would give it a try for some
tough alignments beloved tube type equipment (e.g.. Hammarlund HX50
Transmitter). http://www.ppinyot.com/hammarlund.htm Restoring and aligning
this beast is kicking my butt. Getting the RF amplifier and mixer stages
balance ("linearized" or leveled across the dial) over the US allowable BW
is very difficult. I am hoping a sweeper can aid me in this effort.

So I went and bought my self two sweepers. The above referenced Knight and
an EICO. Both have identical control ranges and functions. But no
schematics. Only a Knight Ops manual.

Any help would be appreciated. The Knight is not on BAMA (unless I missed
something).

Thanks,
Paul P.

From -851914052997367596
X-Google-Thread: fc2a5,fd48ecd223e94a0e
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!uns-out.usenetserver.com!
news.usenetserver.com!pc02.usenetserver.com!FUSE.NET-a2kHrUvQQWlmc!not-for-mail
Message-ID: <4514B9CA.7020402@fuse.net>
Date: Sat, 23 Sep 2006 00:36:26 -0400
From: jawod <jawod@fuse.net>
User-Agent: Mozilla Thunderbird 1.0.2 (Macintosh/20050317)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Looking for additional texts on basic receiver design

```
References: <f07a0$4511e89e$4831cd39$17095@FUSE.NET>
<1158970589.600451.287490@m73g2000cwd.googlegroups.com>
In-Reply-To: <1158970589.600451.287490@m73g2000cwd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 35
X-Trace: 0f91a4514ba3aed94689c19115
Xref: g2news2.google.com rec.radio.amateur.homebrew:7035

LenAnderson@ieee.org wrote:
> jawod wrote:
>
>>Hi,
>>
>>I am reading the ARRL Handbook on Receiver Design and frankly, I find
>>it's a bit out of my league.  The writing assumes some knowledge of
>>circuitry that I am weak on.  Eg., I think I can I can see from the
>>schematic that an RC circuit is shifting phase in a quadrature amplifier
>>stage but it's not mentioned in the text as such.
>>
>>Hopefully, someone out there can get a sense of where I am on the
>>learning curve and can suggest an appropriate text (not TOO basic, I guess).
>>
>>Thanks!
>>
>>John
>>AB8O
>
>
>    I would suggest "Solid State Radio Engineering" by Herbert L.
>    Krauss, Charles W. Bostian, and Frederick H. Raab, John
>    Wiley & Sons, 1980.  It covers radios for a lot of radio services,
>    isn't confined to amateur radio practice.  Hardcover 534 pp.
>    Check used book listings on Amazon.  Not one for Basic
>    Training but its not for PhD studies, either.  Solid information
>    (no pun intended).  It has nice illustrations.  :-)
>
>    LenAnderson@ieee.org
>
Thanks very much to all respondents.  I now have a lot to peruse.  You
guys are great!

John
AB8O


From 7679205048126468242
X-Google-Thread: 1109af,4fde4640ec7739cd
X-Google-Thread: fc2a5,9227383980d88a15,start
X-Google-Attributes: gid1109af,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.hawaiiantel.net!
news.hawaiiantel.net.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 23 Sep 2006 01:44:48 -0500
Date: Fri, 22 Sep 2006 20:45:28 -1000
From: Rick Frazier <rickf@rickfrazier.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.swap,alt.ham.radio.marketplace,rec.radio.amateur.homebrew
Subject: Wanted: ICOM 756ProII Display
References: <rTZQg.285$Ev4.264@trndny03>
In-Reply-To: <rTZQg.285$Ev4.264@trndny03>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <rumdnTXIefB9SonYnZ2dnUVZ_umdnZ2d@hawaiiantel.net>
Lines: 20
NNTP-Posting-Host: 72.234.104.93
X-Trace: sv3-
Nn9Y3esDlwVmp6Gvv0jBdQcKYXZDSQ+hk8SwfqgZdOUcCbXoUA78ZYZJ9EvIxGEIPAulZcVuvkaxv4/!
1UpphPTwzvdfrSyGmsUk3f9OFoWPTcXGS6JpV8QP0EkW2YezwPDUMKsM2mwCaUKECW2TonZUJACA!
9BXmF4M9wIwOS1JZJ79meww=
X-Complaints-To: abuse@hawaiiantel.net
X-DMCA-Complaints-To: abuse@hawaiiantel.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.swap:7748 rec.radio.amateur.homebrew:7036

Subject says it all... (or nearly so)

Looking for a 756ProII display, as the one of my radios has a bad one (looks like horizontal sync has gone south...) Icom wanted a bundle and a half to replace it. Want to fix it myself, but don't have access to enough test equipment to debug the one in the radio at present, so looking for a replacement display. Would even consider a homebrew type of solution (currently using the radio as a computer controlled radio, but I'd really like the display to work too...) If someone has information on the actual display data stream so I could homebrew an adapter to convert to a vga or even a laptop display, I'd be grateful...

Barring that, am looking for other sources of the original display. Anyone got one, or a dysfunctional 756Proii that you'd sell cheap? Located in Hawaii, so can't get to the swap meets and such... Best shipping method to here is USPS Priority mail because it's not expensive and gets here in decent time.

Thanks
--Rick AH7H

```
From 4700054505353758316
X-Google-Thread: fc2a5,f8e977ca991bcbcd,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!headwall.stanford.edu!newsfeed.ksu.edu!
nntp.ksu.edu!not-for-mail
From: mcalhoun@ksu.edu
Newsgroups: rec.radio.amateur.homebrew
Subject: What's in a "wall wart" so-called "transformer"?
Date: 23 Sep 2006 10:03:52 -0500
Organization: Kansas State University
Lines: 19
Distribution: usa
Message-ID: <ef3ico$q5n@unix1.cc.ksu.edu>
NNTP-Posting-Host: unix1.cc.ksu.edu
X-Trace: cnn.cns.ksu.edu 1159023836 7450 129.130.12.3 (23 Sep 2006 15:03:56 GMT)
X-Complaints-To: abuse@ksu.edu
NNTP-Posting-Date: Sat, 23 Sep 2006 15:03:56 +0000 (UTC)
X-Newsreader: NN version 6.5.0 #2 (NOV)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7037

I have a collection of "wall wart" (others may call them "transformers")
and I'd like to use one to cobble a little power supply.  I've never
opened any to see what's really in them (and suspect it'll be quite a
chore), but I'm quite sure they are not ALL "transformers", because some
claim AC and some claim DC output, yet the first I grabbed out of the
junkbox claimed DC AND ALSO provided a HEALTHY AC output on the same
two wires!  Furthermore, NONE of them seem to be voltage regulated!
(But if one says "X volts at Y milliamps", then loading it to Y mils
usually gives an output close to X volts.)

So what IS in them?  Do the really light-weight ones, for example,
use a capacitor for relatively low-loss voltage dropping?  And
why would one give *BOTH* AC and DC?  Bad diode(s)?

--
--Myron A. Calhoun.
Five boxes preserve our freedoms:  soap, ballot, witness, jury, and cartridge
NRA Life Member and Rifle, Pistol, & Home Firearm Safety Certified Instructor
Certified Instructor for the Kansas Concealed-Carry Handgun license


From 4400212880422516096
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 23 Sep 2006 10:17:31 -0500
From: "jack" <jdwalton@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
```

```
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
Subject: Re: ARRL "Homebrew Challenge"
Date: Sat, 23 Sep 2006 11:19:33 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1506
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1506
Message-ID: <YNadnTruO-KWzYjYnZ2dnUVZ_qmdnZ2d@comcast.com>
Lines: 5
NNTP-Posting-Host: 69.249.69.72
X-Trace: sv3-n7WE3fw9PC/RWZfgRknPTpXEWXps+83cQ/JTFLUNVx9ZspO0U/
mUCZRQm7Kihy2f7F+guUko4CTrDVM!
7UaW5iMtKs9XkprIRrSGj2ZoOzlxUrN5vDqaAiLPBhaFJjbyfe8DiGQBd4rJaXUqb3l7nl1jmQB2!
rHLuhmr9cq/L
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7038
```

Those TV's weren't obsolete -- they were "repurposed" -- and don't forget
that you had to purloin your grandmother's a.m. radio for a 365mmF dual
variable cap.

```
From -6796732697454684417
X-Google-Thread: fc2a5,f8e977ca991bcbcd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news3.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
cyclone1.gnilink.net!spamkiller.gnilink.net!gnilink.net!trnddc08.POSTED!24dd0da6!
not-for-mail
Sender: Jim Pennino <jimp@mail.specsol.com>
Message-ID: <ik1gu3-d14.ln1@mail.specsol.com>
From: jimp@specsol.spam.sux.com
Subject: Re: What's in a "wall wart" so-called "transformer"?
Newsgroups: rec.radio.amateur.homebrew
References: <ef3ico$q5n@unix1.cc.ksu.edu>
Distribution: usa
User-Agent: tin/1.8.1-20060215 ("Mealasta") (UNIX) (SunOS/5.9 (sun4u))
Lines: 35
Date: Sat, 23 Sep 2006 15:55:02 GMT
NNTP-Posting-Host: 71.118.11.57
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc08 1159026902 71.118.11.57 (Sat, 23 Sep 2006 11:55:02 EDT)
NNTP-Posting-Date: Sat, 23 Sep 2006 11:55:02 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7039
```

mcalhoun@ksu.edu wrote:
> I have a collection of "wall wart" (others may call them "transformers")
> and I'd like to use one to cobble a little power supply. I've never
> opened any to see what's really in them (and suspect it'll be quite a
> chore), but I'm quite sure they are not ALL "transformers", because some
> claim AC and some claim DC output, yet the first I grabbed out of the
> junkbox claimed DC AND ALSO provided a HEALTHY AC output on the same
> two wires! Furthermore, NONE of them seem to be voltage regulated!
> (But if one says "X volts at Y milliamps", then loading it to Y mils
> usually gives an output close to X volts.)

> So what IS in them? Do the really light-weight ones, for example,
> use a capacitor for relatively low-loss voltage dropping? And
> why would one give *BOTH* AC and DC? Bad diode(s)?

> --
> --Myron A. Calhoun.
> Five boxes preserve our freedoms: soap, ballot, witness, jury, and cartridge
> NRA Life Member and Rifle, Pistol, & Home Firearm Safety Certified Instructor
> Certified Instructor for the Kansas Concealed-Carry Handgun license

It depends...

The AC ones are just a transformer.

The DC ones contain a transformer and diode(s).

The cheapies usually don't contain any capacitors or regulators, hence
there is significant AC on the DC.

--
Jim Pennino

Remove .spam.sux to reply.

From 3048152758406310370
X-Google-Thread: 10bf43,7bd24d129f1f51ce
X-Google-Thread: fc2a5,9019c9e2274f6364,start
X-Google-Attributes: gid10bf43,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-mail
From: "K4YZ" <k4yz_02@yahoo.com>
Newsgroups: rec.radio.amateur.policy,rec.radio.amateur.homebrew
Subject: Re: Gee...What A Coincidence, Lennie...
Date: 23 Sep 2006 09:28:25 -0700
Organization: http://groups.google.com
Lines: 25
Message-ID: <1159028905.204143.93480@k70g2000cwa.googlegroups.com>
References: <1157934341.106721.207810@q16g2000cwq.googlegroups.com>
   <1157934529.287907.281210@i3g2000cwc.googlegroups.com>

```
   <1157939297.358096.144050@m73g2000cwd.googlegroups.com>
   <k96ag2hqsdqeqa97b8cvknn22q6nspm9e3@4ax.com>
   <1157995839.116120.26470@m73g2000cwd.googlegroups.com>
   <1158527339.352992.28170@i42g2000cwa.googlegroups.com>
   <bhGPg.9337$v%4.106@newsread1.news.pas.earthlink.net>
   <c3iug29tid5kod1f1olqktlvn5kkicgg7j@4ax.com>
   <450FE04F.7060501@fuse.net>
   <ia79h21f1uhjc1pd68ud3j86nbmlnemdvi@4ax.com>
   <1158983174.967897.172510@m73g2000cwd.googlegroups.com>
   <1159001395.681117.297240@d34g2000cwd.googlegroups.com>
   <60c43$45153e23$4831cd39$31709@FUSE.NET>
NNTP-Posting-Host: 68.19.196.64
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159028909 4881 127.0.0.1 (23 Sep 2006 16:28:29 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 23 Sep 2006 16:28:29 +0000 (UTC)
In-Reply-To: <60c43$45153e23$4831cd39$31709@FUSE.NET>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=68.19.196.64;
   posting-account=qLzSlw0AAAB-_furlNKlTRKIcgg3DyRw
Xref: g2news2.google.com rec.radio.amateur.policy:45980
rec.radio.amateur.homebrew:7040
```

jawod wrote:
> K4YZ wrote:
> > LenAnderson@ieee.org wrote:

> >>   BTW, this "Jawod" signed a message on rec.radio.amateur.homebrew
> >>   as "AB8O." I found a blank on that call sign at QRZ.
> >
> >   What a coincidence...I used QRZ's database search engine and found
> > a blank when I entered "Leonard H. Anderson".
> >
> >   Funny, eh...?!?!
>
> I am not "Leonard H. Anderson"

I know you're not.

I was jabbing Lennie in the ribs about supposedly not finding someone (you?) under a certain call when HE'S not in there either. Never has been.

Sorry for the confusion.

Steve, K4YZ

```
From 6797216598524445764
X-Google-Thread: fc2a5,f8e977ca991bcbcd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.web-ster.com!news.web-
ster.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 23 Sep 2006 11:49:24 -0500
Date: Sat, 23 Sep 2006 09:49:34 -0700
From: Tim Wescott <tim@seemywebsite.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: What's in a "wall wart" so-called "transformer"?
References: <ef3ico$q5n@unix1.cc.ksu.edu> <ik1gu3-d14.ln1@mail.specsol.com>
In-Reply-To: <ik1gu3-d14.ln1@mail.specsol.com>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <qPudnV7nxOMJ-IjYnZ2dnUVZ_tWdnZ2d@web-ster.com>
Lines: 51
NNTP-Posting-Host: 65.182.233.156
X-Trace: sv3-
n7L3gYP2tFhIMox6HlajSWbxLbQTnBblSl83QG7iW+Zq5ztHUWysm358aXf1dsMdgPztExBt1Oz9Eaz!
fk2EceVOAC4vqDnzs/SlfisJ/u4kyLj3zGI+/y/qqM4IWoPFPWBOEkKJf04MVex7ma6J/YcbC5G/!
A+6xetxytq0uUEP/
X-Complaints-To: abuse@web-ster.com
X-DMCA-Complaints-To: abuse@web-ster.com
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7041
```

jimp@specsol.spam.sux.com wrote:

> mcalhoun@ksu.edu wrote:
>
>>I have a collection of "wall wart" (others may call them "transformers")
>>and I'd like to use one to cobble a little power supply. I've never
>>opened any to see what's really in them (and suspect it'll be quite a
>>chore), but I'm quite sure they are not ALL "transformers", because some
>>claim AC and some claim DC output, yet the first I grabbed out of the
>>junkbox claimed DC AND ALSO provided a HEALTHY AC output on the same
>>two wires! Furthermore, NONE of them seem to be voltage regulated!
>>(But if one says "X volts at Y milliamps", then loading it to Y mils
>>usually gives an output close to X volts.)
>
>
>>So what IS in them? Do the really light-weight ones, for example,
>>use a capacitor for relatively low-loss voltage dropping? And
>>why would one give *BOTH* AC and DC? Bad diode(s)?

```
>
>
>>--
>>--Myron A. Calhoun.
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>>NRA Life Member and Rifle, Pistol, & Home Firearm Safety Certified Instructor
>>Certified Instructor for the Kansas Concealed-Carry Handgun license
>
>
> It depends...
>
> The AC ones are just a transformer.
>
> The DC ones contain a transformer and diode(s).
>
> The cheapies usually don't contain any capacitors or regulators, hence
> there is significant AC on the DC.
>
>
And AFAIK most of them achieve current limiting by intentionally making
the windings lossy, so you can't burn down your house by shorting the
leads together.

--

Tim Wescott
Wescott Design Services
http://www.wescottdesign.com

Posting from Google?  See http://cfaj.freeshell.org/google/

"Applied Control Theory for Embedded Systems" came out in April.
See details at http://www.wescottdesign.com/actfes/actfes.html


From 6451325385644624270
X-Google-Thread: fc2a5,cc968d9642484def
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: Bill Turner <noway@nowhow.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARC-5 Tuning Shaft Adapters
Date: Sat, 23 Sep 2006 10:38:22 -0700
Message-ID: <q2sah2hpboogcb4d02ra66mo01ear2psrs@4ax.com>
References: <1158638582.419376.97510@k70g2000cwa.googlegroups.com>
X-Newsreader: Forte Agent 4.0/32.1069
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: node52-61-52-66.1dial.com
X-Trace: newsfeed.slurp.net 1159020277 66.52.61.52 (23 Sep 2006 09:04:37 -0500)
Lines: 24
X-Authenticated-User: dezrat@copper.net
```

```
X-Original-NNTP-Posting-Host: 66.52.61.52
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed.hal-mli.net!feeder1.hal-mli.net!news.alt.net!
newsfeed.slurp.net!not-for-mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:7042
```

ORIGINAL MESSAGE:

On 18 Sep 2006 21:03:02 -0700, "LenAnderson@ieee.org"
<LenAnderson@ieee.org> wrote:

>Does anyone have or can they direct me to a couple of "splined"
>tuning shaft adapters that fit the ARC-5 Command Set receivers?
>I'd like to adapt some of the ganged variable capacitors from
>those sets into some homebuilt equipment...lovely antibacklash
>gear reduction on them.

------------ REPLY FOLLOWS ------------

Agreed, those are among the best variable capacitors ever made.

My first radio in 1957 was an ARC-5 a friend gave me. It had a shaft made from a piece of 1/4 inch copper tubing, carefully drilled out so it was a very tight force fit. No glue, set screws or anything like that, just a very tight fit that had to be driven on with a hammer. I used that RX for a couple of years and the shaft performed perfectly.

Hope this helps.

Bill, W6WRT

```
From 5955547459548389983
X-Google-Thread: fc2a5,f8e977ca991bcbcd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc02.POSTED!0da99462!not-for-mail
Reply-To: "W3JDR" <joe@roccis.com>
From: "W3JDR" <joe@roccis.com>
Newsgroups: rec.radio.amateur.homebrew
References: <ef3ico$q5n@unix1.cc.ksu.edu> <ik1gu3-d14.ln1@mail.specsol.com>
Subject: Re: What's in a "wall wart" so-called "transformer"?
Lines: 53
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <izfRg.981$fl2.496@trnddc02>
Date: Sat, 23 Sep 2006 19:04:46 GMT
NNTP-Posting-Host: 68.163.24.85
```

X-Complaints-To: abuse@verizon.net
X-Trace: trnddc02 1159038286 68.163.24.85 (Sat, 23 Sep 2006 15:04:46 EDT)
NNTP-Posting-Date: Sat, 23 Sep 2006 15:04:46 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7043

There are also some transformer-input types that produce well-regulated DC
outputs using linear regulator technology, and a growing number of units
that use switching regulator technology to make the transfoprmer so small
that it's hard to tell from the outside that there's even a transformer in
it.. The latter are easily distinguishable because they put out quite a bit
of power, yet are smaller and much lighter in weight than traditional units
with equivalent power capability.

Joe
W3JDR

<jimp@specsol.spam.sux.com> wrote in message
news:ik1gu3-d14.ln1@mail.specsol.com...
> mcalhoun@ksu.edu wrote:
>> I have a collection of "wall wart" (others may call them "transformers")
>> and I'd like to use one to cobble a little power supply. I've never
>> opened any to see what's really in them (and suspect it'll be quite a
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>> two wires! Furthermore, NONE of them seem to be voltage regulated!
>> (But if one says "X volts at Y milliamps", then loading it to Y mils
>> usually gives an output close to X volts.)
>
>> So what IS in them? Do the really light-weight ones, for example,
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>> Certified Instructor for the Kansas Concealed-Carry Handgun license
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>
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> there is significant AC on the DC.
>
>
> --

```
> Jim Pennino
>
> Remove .spam.sux to reply.




From 5349035505004613158
X-Google-Thread: fc2a5,f8e977ca991bcbcd
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews1.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: What's in a "wall wart" so-called "transformer"?
References: <ef3ico$q5n@unix1.cc.ksu.edu> <ik1gu3-d14.ln1@mail.specsol.com>
<izfRg.981$fl2.496@trnddc02>
In-Reply-To: <izfRg.981$fl2.496@trnddc02>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 61
Message-ID: <IKfRg.9008$zF5.3643@bignews1.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
pcpocbcnbdmdhgfgdbdpiflmbcekedmfhojhikkbagflhcboignlgmdgmhfemohjplkghagocgiaiekhph
cflcglhokhfpiiaahihelibegjblkbnmoebahngadmnepdilkmklkkenddhibpemlkjhifjoiboabm
NNTP-Posting-Date: Sat, 23 Sep 2006 15:16:56 EDT
Organization: BellSouth Internet Group
Date: Sat, 23 Sep 2006 15:17:07 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:7044

W3JDR wrote:
> There are also some transformer-input types that produce well-regulated DC
> outputs using linear regulator technology, and a growing number of  units
> that use switching regulator technology to make the transfoprmer so small
> that it's hard to tell from the outside that there's even a transformer in
> it.. The latter are easily distinguishable because they put out quite a bit
> of power, yet are smaller and much lighter in weight than traditional units
> with equivalent power capability.
>
> Joe
> W3JDR
>
>
> <jimp@specsol.spam.sux.com> wrote in message
> news:ik1gu3-d14.ln1@mail.specsol.com...
```

>> mcalhoun@ksu.edu wrote:
>>> I have a collection of "wall wart" (others may call them "transformers")
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>>> Instructor
>>> Certified Instructor for the Kansas Concealed-Carry Handgun license
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>>
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>>
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>> there is significant AC on the DC.
>>
>>
>> --
>> Jim Pennino
>>
>> Remove .spam.sux to reply.
>
>
Such units actually have a bridge rectifier across the AC mains and
supply DC to a switching regulator running at 20-50khz. There is an
isolation transformer running at this frequency (it's core is just a
small bit of lightweight ferrite). The output of the isolation
transformer feeds another bridge rectifier and filter (at ~40khz not
much of a filter is needed, small caps and chokes!). There may then
be a linear or switching regulator. If the later, it may actually
regulate by changing the switching frequency/duty cycle of the
original switcher at the AC mains input. In this case the feedback
is by means of an opto-isolator for safety.

From -5353704297906177134
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!

border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews1.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL "Homebrew Challenge"
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
In-Reply-To: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 32
Message-ID: <VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
pcpocbcnbdmdhgfgdbdpiflmbcekedmfhojhikkbagflhcbodimhfkjdmamcomlamclppeekcpnchnjcph
cflcglhokhfpiiaahihelibegjblkbnmoebahngadmnepdgjadndmgghoepeooehdabdphjddmmhoh
NNTP-Posting-Date: Sat, 23 Sep 2006 15:23:33 EDT
Organization: BellSouth Internet Group
Date: Sat, 23 Sep 2006 15:23:45 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:7045

Tom Coates wrote:
> ARRL has announced a design competition that some of you may not have heard
> of. The objective is to produce a CW and SSB transceiver with at least 5
> watts of output on 40 meters. Components must be commercially available. The
> total cost of all components (except key, mic and power supply) must not
> exceed $50. Any instruments beyond a multimeter must be in the $50. Complete
> information is at http://www.arrl.org/qst/hbc/. Credit for the original idea
> goes to N4AUP/9. All components of the entry must arrive at ARRL by next
> August. The winning entry will be the subject of a QST article.
>
> I would hope that the winning entry would also appear in the ARRL Handbook
> and the "Now You're Talking" book. It would also be desirable for this
> contest repeat every two years, alternating with an SSB/CW transceiver for a
> single VHF or UHF band, or perhaps for two bands most suitable for working
> the low-orbit satellites: something worthwhile for new Technicians to build
> (such a competition might have a higher limit than $50).
>
> The idea that new hams could again build their own stations using money
> earned after school is very appealing. That was a plausible objective in the
> 1960s, because of the availability of components from obsolete TVs.
>
> Tom, N3IJ
>
>

I would take exception to the "windows" requirement for the PC. They
should allow a solution using both "MAC" and "Linux" based PC's
especially the later. Linux can run on a 'throw away' computer that is
now underpowered for current generation Windows OS. Also Linux is FREE

(perfect for a budget project!).

I don't run windows on my computer. Currently running Gentoo Linux, but
for non-computer gear heads I recommend Ubuntu, Kubuntu, or Xubuntu Linux.

From 473789587583021779
X-Google-Thread: fc2a5,49b61278c05a1496,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i42g2000cwa.googlegroups.com!not-for-mail
From: "Atlanta-ham" <swanradio@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Anyone out there can help me with eprom programming?
Date: 23 Sep 2006 12:57:05 -0700
Organization: http://groups.google.com
Lines: 9
Message-ID: <1159041425.910341.124640@i42g2000cwa.googlegroups.com>
NNTP-Posting-Host: 206.148.176.70
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159041429 4148 127.0.0.1 (23 Sep 2006 19:57:09 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 23 Sep 2006 19:57:09 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.12)
Gecko/20050915 Firefox/1.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i42g2000cwa.googlegroups.com; posting-host=206.148.176.70;
   posting-account=W8IxrA0AAABMKQ-aP1_M5dJcsqEgNjA1
Xref: g2news2.google.com rec.radio.amateur.homebrew:7046

Years ago in 73, and other mags, programming an eprom for the Icom 22S
was the rage.
I now have aquired a TransWorld transceiver that is programmed with
diodes. I wish to build a BCD thumbwheel input, with an Eprom for data
translation. It's no problem building a board, but it's a problem with
me programming the eprom. I don't need anything fancy, no memory, no
scanning, just using the thumbwheels to move frequency. I've never
programmed an eprom before.

From -5666036909146003467
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sat, 23 Sep 2006 14:57:42 -0500
Newsgroups: rec.radio.amateur.homebrew

From: notbob <notbob@nothome.com>
Subject: Re: ARRL "Homebrew Challenge"
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
<VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
Organization: ...little, if any
User-Agent: slrn/0.9.8.1 (Linux)
Message-ID: <ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
Date: Sat, 23 Sep 2006 14:57:42 -0500
Lines: 17
NNTP-Posting-Host: 24.5.203.12
X-Trace: sv3-6IcbWC61B5qNgeaksPE5iJA5ZUTamArl5y3arYz/
I9n9vfx85AharGD6Mver5xtM49Z6nwhL3SABFE1!
stUvSSiQsdjEMG2HUgEGAx+5S6brHnCCGr8352h55vySy6l9fs2T6vkQGDj2NAQgtnEjbagdmbJw!
hx9E8g==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7047

On 2006-09-23, ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net> wrote:

> I would take exception to the "windows" requirement for the PC. They
> should allow a solution using both "MAC" and "Linux" based PC's
> especially the later.

Evidently, you didn't read this requirement thoroughly.

"The software must run on a Windows based PC platform although multi platform support is encouraged."

I assume this is to make sure a solution is not done soley on an apple or linux box, thereby leaving out 95% of computer users. I'm a linux user, but let's face it, not including Windoze would exclude way too many people. Not good for promoting ARRL programs.

nb

From 2674043462354670048
X-Google-Thread: fc2a5,49b61278c05a1496
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.75.MISMATCH!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe02.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1159041425.910341.124640@i42g2000cwa.googlegroups.com>
Subject: Re: Anyone out there can help me with eprom programming?

Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <xBhRg.1585$QF6.1102@newsfe02.lga>
X-Trace:
nphhjmdkmllhpdkeijjdnojopddcmjimoghmndgjechngldfnicfceledepkikoolhlefpnpglhfdcnhjp
emammbalmgmeahmofpmendkdkbjfbmanfnmdnmmeihfgjabcnegbbojhamihnb
NNTP-Posting-Date: Sat, 23 Sep 2006 14:23:41 MST
Date: Sat, 23 Sep 2006 17:23:37 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:7048

Not too many folks fiddle with EPROMS anymore. Microcontrollers with onboard EEPROM are cheaper and easier to program, plus you get some logic that allows you to reduce the circuit complexity thrown in for the ride. Of course, these things grow ... with the logic, an encoder is cheaper and more pleasant to use than the thumbwheel, but now you would like to add a display .... and on and on. But still, I wouldn't be surprised if the micro, encoder and display wasn't still cheaper than the EEPROM and BCD switch.

..

"Atlanta-ham" <swanradio@juno.com> wrote in message
news:1159041425.910341.124640@i42g2000cwa.googlegroups.com...
> Years ago in 73, and other mags, programming an eprom for the Icom 22S
> was the rage.
> I now have aquired a TransWorld transceiver that is programmed with
> diodes. I wish to build a BCD thumbwheel input, with an Eprom for data
> translation. It's no problem building a board, but it's a problem with
> me programming the eprom. I don't need anything fancy, no memory, no
> scanning, just using the thumbwheels to move frequency. I've never
> programmed an eprom before.
>

From 7080138162540622958
X-Google-Thread: fc2a5,49b61278c05a1496
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller2.gnilink.net!gnilink.net!trndny04.POSTED!f4075951!not-for-mail
From: nospam@nouce.bellatlantic.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Anyone out there can help me with eprom programming?
Message-ID: <33bbh295hea2mb9m8k948l8bslhkqi95a1@4ax.com>
References: <1159041425.910341.124640@i42g2000cwa.googlegroups.com>
<xBhRg.1585$QF6.1102@newsfe02.lga>

```
X-Newsreader: Forte Free Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 37
Date: Sat, 23 Sep 2006 21:52:45 GMT
NNTP-Posting-Host: 68.160.6.78
X-Complaints-To: abuse@verizon.net
X-Trace: trndny04 1159048365 68.160.6.78 (Sat, 23 Sep 2006 17:52:45 EDT)
NNTP-Posting-Date: Sat, 23 Sep 2006 17:52:45 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7049

On Sat, 23 Sep 2006 17:23:37 -0400, "xpyttl"
<xpyttl_NOSPAM@earthling.net> wrote:

>Not too many folks fiddle with EPROMS anymore.  Microcontrollers with

Error!  There are plenty of people using eproms for systems and other
uses.   I keep a programmer for such a reason.

>onboard EEPROM are cheaper and easier to program, plus you get some logic
>that allows you to reduce the circuit complexity thrown in for the ride.  Of
>course, these things grow ... with the logic, an encoder is cheaper and more
>pleasant to use than the thumbwheel, but now you would like to add a display
>.... and on and on.  But still, I wouldn't be surprised if the micro,
>encoder and display wasn't still cheaper than the EEPROM and BCD switch.

A micro like a PIC would likely be a lower cost solution and you can
then uses a cheaper switch and all.   A programmer <really more of a
cable> for a  PIC can be easily built for a PC parallel port.

Allison
>
>..
>
>
>"Atlanta-ham" <swanradio@juno.com> wrote in message
>news:1159041425.910341.124640@i42g2000cwa.googlegroups.com...
>> Years ago in 73, and other mags, programming an eprom for the Icom 22S
>> was the rage.
>> I now have aquired a TransWorld transceiver that is programmed with
>> diodes. I wish to build a BCD thumbwheel input, with an Eprom for data
>> translation. It's no problem building a board, but it's a problem with
>> me programming the eprom. I don't need anything fancy, no memory, no
>> scanning, just using the thumbwheels to move frequency. I've never
>> programmed an eprom before.
>>
>



From 4844443532884075892
X-Google-Thread: fc2a5,49b61278c05a1496
```

```
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i42g2000cwa.googlegroups.com!not-for-
mail
From: "Atlanta-ham" <swanradio@juno.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Anyone out there can help me with eprom programming?
Date: 23 Sep 2006 15:59:29 -0700
Organization: http://groups.google.com
Lines: 39
Message-ID: <1159052369.525422.95440@i42g2000cwa.googlegroups.com>
References: <1159041425.910341.124640@i42g2000cwa.googlegroups.com>
   <xBhRg.1585$QF6.1102@newsfe02.lga>
   <33bbh295hea2mb9m8k948l8bslhkqi95a1@4ax.com>
NNTP-Posting-Host: 206.148.176.120
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1159052374 25161 127.0.0.1 (23 Sep 2006 22:59:34 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Sat, 23 Sep 2006 22:59:34 +0000 (UTC)
In-Reply-To: <33bbh295hea2mb9m8k948l8bslhkqi95a1@4ax.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.12)
Gecko/20050915 Firefox/1.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i42g2000cwa.googlegroups.com; posting-host=206.148.176.120;
   posting-account=W8IxrA0AAABMKQ-aP1_M5dJcsqEgNjA1
Xref: g2news2.google.com rec.radio.amateur.homebrew:7050
```

nospam@nouce.bellatlantic.net wrote:
> On Sat, 23 Sep 2006 17:23:37 -0400, "xpyttl"
> <xpyttl_NOSPAM@earthling.net> wrote:
>
> >Not too many folks fiddle with EPROMS anymore. Microcontrollers with
>
> Error! There are plenty of people using eproms for systems and other
> uses.   I keep a programmer for such a reason.
>
> >onboard EEPROM are cheaper and easier to program, plus you get some logic
> >that allows you to reduce the circuit complexity thrown in for the ride. Of
> >course, these things grow ... with the logic, an encoder is cheaper and more
> >pleasant to use than the thumbwheel, but now you would like to add a display
> >.... and on and on. But still, I wouldn't be surprised if the micro,
> >encoder and display wasn't still cheaper than the EEPROM and BCD switch.
>
> A micro like a PIC would likely be a lower cost solution and you can
> then uses a cheaper switch and all.   A programmer <really more of a
> cable> for a PIC can be easily built for a PC parallel port.
>
> Allison
> >
> >..

```
> >
> >
> >"Atlanta-ham" <swanradio@juno.com> wrote in message
> >news:1159041425.910341.124640@i42g2000cwa.googlegroups.com...
> >> Years ago in 73, and other mags, programming an eprom for the Icom 22S
> >> was the rage.
> >> I now have aquired a TransWorld transceiver that is programmed with
> >> diodes. I wish to build a BCD thumbwheel input, with an Eprom for data
> >> translation. It's no problem building a board, but it's a problem with
> >> me programming the eprom. I don't need anything fancy, no memory, no
> >> scanning, just using the thumbwheels to move frequency. I've never
> >> programmed an eprom before.
> >>
> >I've looked around at PIC circuits, and understand I could program quite easily
with my computer, however, I'm not that good at programming a PIC either! There's
a control head that comes with this rig, that allows me to select twenty
frequencies, along with power, squelch, and other things. I can probably get a
board to use the PIC with, however, I know absolutely nothing about PIC
programming! Last time I used BASIC was back in the early eighties! There as a
project some time ago called the "Kendra Board" I believe in either 73, or CQ,
using a PIC.



From 5915781646628790879
X-Google-Thread: 10bf43,7bd24d129f1f51ce
X-Google-Thread: fc2a5,9019c9e2274f6364
X-Google-Attributes: gid10bf43,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!uns-out.usenetserver.com!
news.usenetserver.com!pc03.usenetserver.com!FUSE.NET-a2kHrUvQQWlmc!not-for-mail
Message-ID: <4515C961.7050903@fuse.net>
Date: Sat, 23 Sep 2006 19:55:13 -0400
From: jawod <jawod@fuse.net>
User-Agent: Mozilla Thunderbird 1.0.2 (Macintosh/20050317)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.policy,rec.radio.amateur.homebrew
Subject: Re: Gee...What A Coincidence, Lennie...
References: <1157934341.106721.207810@q16g2000cwq.googlegroups.com>
<1157934529.287907.281210@i3g2000cwc.googlegroups.com>
<1157939297.358096.144050@m73g2000cwd.googlegroups.com>
<k96ag2hqsdqeqa97b8cvknn22q6nspm9e3@4ax.com>
<1157995839.116120.26470@m73g2000cwd.googlegroups.com>
<1158527339.352992.28170@i42g2000cwa.googlegroups.com>
<bhGPg.9337$v%4.106@newsread1.news.pas.earthlink.net>
<c3iug29tid5kod1f1olqktlvn5kkicgg7j@4ax.com>   <450FE04F.7060501@fuse.net>
<ia79h21f1uhjc1pd68ud3j86nbmlnemdvi@4ax.com>
<1158983174.967897.172510@m73g2000cwd.googlegroups.com>
<1159001395.681117.297240@d34g2000cwd.googlegroups.com>
<60c43$45153e23$4831cd39$31709@FUSE.NET>
<1159028905.204143.93480@k70g2000cwa.googlegroups.com>
```

```
In-Reply-To: <1159028905.204143.93480@k70g2000cwa.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 37
X-Trace: 5e59b4515c9f8ed94689c10245
Xref: g2news2.google.com rec.radio.amateur.policy:46007
rec.radio.amateur.homebrew:7051

K4YZ wrote:
> jawod wrote:
>
>>K4YZ wrote:
>>
>>>LenAnderson@ieee.org wrote:
>
>
>>>>  BTW, this "Jawod" signed a message on rec.radio.amateur.homebrew
>>>>  as "AB8O."  I found a blank on that call sign at QRZ.
>>>
>>>     What a coincidence...I used QRZ's database search engine and found
>>>a blank when I entered "Leonard H. Anderson".
>>>
>>>     Funny, eh...?!?!
>>
>>I am not "Leonard H. Anderson"
>
>
>     I know you're not.
>
>     I was jabbing Lennie in the ribs about supposedly not finding
> someone (you?) under a certain call when HE'S not in there either.
> Never has been.
>
>     Sorry for the confusion.
>
> Steve, K4YZ
>
I'm not in hiding.

No worries.

73,

John
AB8O


From -6755874627170665l4
X-Google-Thread: 108122,33ce63f8dc94b9b5
X-Google-Thread: fc2a5,33ce63f8dc94b9b5
X-Google-Thread: 10bf43,33ce63f8dc94b9b5
```

```
X-Google-Thread: 114aac,33ce63f8dc94b9b5
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,gid114aac,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!b1a104da!not-for-mail
Message-ID: <4515DA99.3A371D66@earthlink.net>
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Reply-To: mike.terrell@earthlink.net
Organization: http://home.earthlink.net/~mike.terrell/
X-Mailer: Mozilla 4.78 [en]C-CCK-MCD   (Win98; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,re
c.radio.shortwave
Subject: Re: PayPal horror stories
References: <1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com>
        <6eugg2lhifqpomku6q6dpeol34h76n88rs@4ax.com>
        <12gjg5c7v745776@corp.supernews.com>
        <D%lOg.16604$c07.4284@fed1read04>
        <eecrj6$c5e$1@news2.kornet.net>
        <1158291225.890645.27670@d34g2000cwd.googlegroups.com>
        <450AC969.AEA1EE0C@earthlink.net>
<1158337419.720905.167230@p79g2000cwp.googlegroups.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 45
Date: Sun, 24 Sep 2006 01:10:24 GMT
NNTP-Posting-Host: 24.110.34.161
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1159060224 24.110.34.161 (Sat, 23 Sep
2006 18:10:24 PDT)
NNTP-Posting-Date: Sat, 23 Sep 2006 18:10:24 PDT
Xref: g2news2.google.com rec.radio.amateur.equipment:6410
rec.radio.amateur.homebrew:7052 rec.radio.amateur.policy:46016
rec.radio.shortwave:53799
```

Too_Many_Tools wrote:

>
> You might not care about your credit rating but you will care when a
> lien is placed against your home.
>
> And if you were as financially astute as you like to think you are, you
> would know that companies and the Government use your credit report to
> decide whether they will hire you, give you a security clearance,
> determine the rates they charge you...and many other issues that affect
> you.

I am 100% disabled. I can not get a job, so I don't have to worry about a security clearance.

> Your credit rating matters.

In most cases, but not always.

> And I also note that many of those who are bad credit risks deal in
> cash only...because it is the only way others will deal with them.

I got in the habit of paying in cash about 35 years ago when I owned a business, and my suppliers gave a 1.5% discount for paying cash within 10 days of the monthly statement being mailed. I paid cash for vehicles whenever possible to save the finance charges. In 54 years I have financed one new truck, and one home, 30 years ago. I have no need for credit, because if I can't afford something, I'll do without it. The VA takes care of all of my medical needs, and everything else is paid for. I'm getting old and with my health problems I have no idea how long I'll be around. Its not the big deal it was when I was 20 years old.

--
Service to my country? Been there, Done that, and I've got my DD214 to prove it.
Member of DAV #85.

Michael A. Terrell
Central Florida

From -6690564682812466921
X-Google-Thread: fc2a5,e76e75818396a3e8
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews7.bellsouth.net.POSTED!ef55a73e!not-for-mail
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
User-Agent: Thunderbird 1.5.0.4 (X11/20060625)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARRL "Homebrew Challenge"
References: <6rqdnWIbgvvaKInYnZ2dnUVZ_vmdnZ2d@comcast.com>
<VQfRg.9010$zF5.4158@bignews1.bellsouth.net>
<ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
In-Reply-To: <ItidnbO3A4MrDIjYnZ2dnUVZ_qudnZ2d@comcast.com>
X-Enigmail-Version: 0.94.0.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Lines: 29

Message-ID: <__kRg.8194$tT6.613@bignews7.bellsouth.net>
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
enggpaojkliedbjjdbdpiflmbcekedmfhojhikkbagflhcbogpjjcbplhfeacoffanckofoapabilinaph
cflcglhokhfpiiaahihelibegjblkbnmoebahngadmnepdgokapleglkkggpjcnapdmfbopkffhlop
NNTP-Posting-Date: Sat, 23 Sep 2006 21:15:38 EDT
Organization: BellSouth Internet Group
Date: Sat, 23 Sep 2006 21:15:50 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:7053

notbob wrote:
> On 2006-09-23, ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net> wrote:
>
>> I would take exception to the "windows" requirement for the PC. They
>> should allow a solution using both "MAC" and "Linux" based PC's
>> especially the later.
>
> Evidently, you didn't read this requirement thoroughly.
>
> "The software must run on a Windows based PC platform although multi
> platform support is encouraged."
>
> I assume this is to make sure a solution is not done soley on an apple or
> linux box, thereby leaving out 95% of computer users. I'm a linux
> user, but let's face it, not including Windoze would exclude way too
> many people. Not good for promoting ARRL programs.
>
> nb

Oh I read the requirements. I meant that I didn't agree with them, and
I wrote an email to ARRL with that opinion. They replied back to me
with your analysis, that they wanted a solution that would be applicable
to most computer users, but they also liked the idea of a multi-platform
project. Maybe they might open up a category for Linux.

The advantage of Linux is that the development tools are free, and Linux
will run on any computer that runs windows. You can also install Linux
on top of windows (on the same computer anyway) and dual boot, so you
can have your cake and eat it too (or have your poison and antidote too
in my opinion!).

From -4838885948804866197
X-Google-Thread: 108122,33ce63f8dc94b9b5
X-Google-Thread: fc2a5,33ce63f8dc94b9b5
X-Google-Thread: 10bf43,33ce63f8dc94b9b5
X-Google-Thread: 114aac,33ce63f8dc94b9b5
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,gid114aac,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!b1a104da!not-for-mail
Message-ID: <4515DE32.CC9A7A8@earthlink.net>

From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Reply-To: mike.terrell@earthlink.net
Organization: http://home.earthlink.net/~mike.terrell/
X-Mailer: Mozilla 4.78 [en]C-CCK-MCD   (Win98; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.shortwave
Subject: Re: PayPal horror stories
References: <1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com>
<6eugg2lhifqpomku6q6dpeol34h76n88rs@4ax.com>
<12gjg5c7v745776@corp.supernews.com>   <D%lOg.16604$c07.4284@fed1read04>
<eecrj6$c5e$1@news2.kornet.net>
<1158291225.890645.27670@d34g2000cwd.googlegroups.com>
<450AC969.AEA1EE0C@earthlink.net> <12glldnl1mdsn5c@corp.supernews.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 61
Date: Sun, 24 Sep 2006 01:25:46 GMT
NNTP-Posting-Host: 24.110.34.161
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1159061146 24.110.34.161 (Sat, 23 Sep 2006 18:25:46 PDT)
NNTP-Posting-Date: Sat, 23 Sep 2006 18:25:46 PDT
Xref: g2news2.google.com rec.radio.amateur.equipment:6411
rec.radio.amateur.homebrew:7054 rec.radio.amateur.policy:46018
rec.radio.shortwave:53801

Joel Kolstad wrote:
>
> Hi Michael,
>
> "Michael A. Terrell" <mike.terrell@earthlink.net> wrote in message
> news:450AC969.AEA1EE0C@earthlink.net...
> >   What's a credit rating? I haven't used credit for anything for over
> > 20 years. Its been cash up front, or nothing.
>
> Ironically, your credit rating will actually be "less than perfect" then! :-)
>
> Assuming you don't need a new mortgage any time soon, I suppose you're set.
>
> Do you have a credit card? I know it's possible, but it sure seems like a
> pain to live without one these days... especially for things like renting
> cars.

I applied for a credit card in 1972 and was turned down because I was an E2 in the US Army. You had to be an E6 with five years to qualify, so I decided I was never going to waste my time applying again. The credit card companies have probably spent more trying to get me to apply for a card since them, than I would have used that Chevron card for.

I really can't travel very far, so I have no need to rent a car. In fact, my truck was out of commission for over a week before I was able to crawl under it and cut the damaged exhaust system apart and fix it. I asked the young man who volunteers for the "Computers for Disabled Veterans" project get me a few groceries, but otherwise I didn't miss the truck. He is learning computer repair, in exchange for helping me finish more computers.

I have always lead a simple lifestyle. Sure there are lots of things around, but I rarely buy anything new. Only when I can't fix something, or build it from what I can find. Its very satisfying to look at something you've built and have someone ask, Wow! Where did you buy that? :)

I have picked up a couple truckloads of free angle iron bed frames to build some work carts, but first, I have to build a welding table. I have a lead on free reject sheets of plywood from a local mill to make shelving out of. Any sheet that has a splice, or is missing any glue is rejected. I want to build some shelving to store the spare computer parts, and wood trays to hold Hard drives, CDROM drives and Floppy drives. That way they can be sorted, tested, and ready to drop into a computer, as needed.

BTW, I was given another Compaq like yours with the VGA connector sheared off the motherboard. It works with a replacement AGP card, but you know me. I'm going to replace the connector so I can see if the onboard video is still ok. ;-)

--
Service to my country? Been there, Done that, and I've got my DD214 to prove it.
Member of DAV #85.

Michael A. Terrell
Central Florida

From -3931903001412994396
X-Google-Thread: fc2a5,c3687e45b62f70d,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone.austin.rr.com!news.rr.com!
tornado.texas.rr.com.POSTED!53ab2750!not-for-mail
From: "DJboutit" <Recordking@Hotmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Check Out Radio Pirates Forum
Lines: 4
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106

```
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <eTlRg.4750$nX4.3068@tornado.texas.rr.com>
Date: Sun, 24 Sep 2006 02:15:38 GMT
NNTP-Posting-Host: 72.181.189.162
X-Complaints-To: abuse@rr.com
X-Trace: tornado.texas.rr.com 1159064138 72.181.189.162 (Sat, 23 Sep 2006 21:15:38
CDT)
NNTP-Posting-Date: Sat, 23 Sep 2006 21:15:38 CDT
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:7055
```

http://www.radiopirates.co.nr/ For Pirates to come and chat about the world
of pirate radio also to get tips about how to start your now station.

```
From -4728346622649812780
X-Google-Thread: fc2a5,4d8712d2438150bf
X-Google-Thread: fc8b1,4d8712d2438150bf
X-Google-Thread: 108122,4d8712d2438150bf
X-Google-Thread: 107ada,4d8712d2438150bf
X-Google-Thread: 111d0a,4d8712d2438150bf
X-Google-Attributes: gidfc2a5,gidfc8b1,gid108122,gid107ada,gid111d0a,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!elnk-nf2-pas!elnk-pas-nf1!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!b1a104da!not-for-mail
Message-ID: <450DD383.D8B8883B@earthlink.net>
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Reply-To: mike.terrell@earthlink.net
Organization: http://home.earthlink.net/~mike.terrell/
X-Mailer: Mozilla 4.78 [en]C-CCK-MCD   (Win98; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.amateur.equipme
nt,rec.radio.amateur.misc,sci.electronics.basics
Subject: Re: SolderSmoke #32: HW101 (clutch) FT-101, CONNECTORS, 3RD ORDER,
 ENIGMA,
References: <1158515181.447997.53890@m73g2000cwd.googlegroups.com>
<eek32o$1fuo$1@registered.motzarella.org> <GvgPg.19538$cz3.10943@edtnps82>
<qOgPg.35$k74.23@newsfe06.lga>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 31
Date: Sun, 17 Sep 2006 23:01:16 GMT
NNTP-Posting-Host: 24.110.34.161
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1158534076 24.110.34.161 (Sun, 17 Sep
2006 16:01:16 PDT)
NNTP-Posting-Date: Sun, 17 Sep 2006 16:01:16 PDT
```

```
Xref: g2news2.google.com rec.radio.amateur.homebrew:6953
rec.radio.amateur.boatanchors:5432 rec.radio.amateur.equipment:6255
rec.radio.amateur.misc:21781 sci.electronics.basics:25664

xpyttl wrote:
>
> "Homer J Simpson" <nobody@nowhere.com> wrote in message
> news:GvgPg.19538$cz3.10943@edtnps82...
> >
> > "The Professor" <telstarelectronics@yahoo.com> wrote in message
> > news:eek32o$1fuo$1@registered.motzarella.org...
> >
> >> stop spamming the group asshole.
> >
> > Why is it spamming?
>
> Bill included rec.radio.amateur.misc in the list of newsgroups he posted the
> original message to.  Since rram seems to be reserved for flames, discussion
> of amateur radio is evidently off-topic.
>
> ..


   The crap on news:sci.electronics.misc is crossposted from
news:sci.electronics.policy, which is a watering hole for the biggest
idiots on usenet.



--
Service to my country? Been there, Done that, and I've got my DD214 to
prove it.
Member of DAV #85.

Michael A. Terrell
Central Florida



From -8996263593897939651
X-Google-Thread: fc2a5,4d8712d2438150bf
X-Google-Thread: fc8b1,4d8712d2438150bf
X-Google-Thread: 108122,4d8712d2438150bf
X-Google-Thread: 107ada,4d8712d2438150bf
X-Google-Thread: 111d0a,4d8712d2438150bf
X-Google-Attributes: gidfc2a5,gidfc8b1,gid108122,gid107ada,gid111d0a,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!newshub.sdsu.edu!elnk-
nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread3.news.pas.earthlink.net.POSTED!b1a104da!not-for-mail
Message-ID: <450DD47B.8E451A1A@earthlink.net>
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Reply-To: mike.terrell@earthlink.net
Organization: http://home.earthlink.net/~mike.terrell/
X-Mailer: Mozilla 4.78 [en]C-CCK-MCD   (Win98; U)
```

X-Accept-Language: en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.misc,sci.electronics.basics
Subject: Re: SolderSmoke #32: HW101 (clutch) FT-101, CONNECTORS, 3RD ORDER,
 ENIGMA,
References: <1158515181.447997.53890@m73g2000cwd.googlegroups.com>
<eek32o$1fuo$1@registered.motzarella.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 19
Date: Sun, 17 Sep 2006 23:05:25 GMT
NNTP-Posting-Host: 24.110.34.161
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread3.news.pas.earthlink.net 1158534325 24.110.34.161 (Sun, 17 Sep 2006 16:05:25 PDT)
NNTP-Posting-Date: Sun, 17 Sep 2006 16:05:25 PDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:6954
rec.radio.amateur.boatanchors:5433 rec.radio.amateur.equipment:6256
rec.radio.amateur.misc:21782 sci.electronics.basics:25665

The Professor wrote:
>
> stop spamming the group asshole.
>
> www.telstar-electronics.com
>

Thanks for your spam, Professor. I forwarded it to: FCCINFO@fcc.gov
to see what they think of your CB linears.

--
Service to my country? Been there, Done that, and I've got my DD214 to
prove it.
Member of DAV #85.

Michael A. Terrell
Central Florida

From -8607318193161933633
X-Google-Thread: fc2a5,6800df57427abd65
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-mail
From: sailtamarack@yahoo.ca
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Rewinding a rheostat to make it a variable iunductor
Date: 17 Sep 2006 18:37:00 -0700

```
Organization: http://groups.google.com
Lines: 28
Message-ID: <1158543420.140434.58630@m73g2000cwd.googlegroups.com>
References: <1158494285.997392.51590@k70g2000cwa.googlegroups.com>
   <4ckqg2tipknu0u70bb1ggqnmde26q5a3eu@4ax.com>
NNTP-Posting-Host: 70.66.158.62
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158543426 32500 127.0.0.1 (18 Sep 2006 01:37:06 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 18 Sep 2006 01:37:06 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=70.66.158.62;
   posting-account=gXcV3gwAAACKhdV_aZ9TbpV32cSAnBGe
Xref: g2news2.google.com rec.radio.amateur.homebrew:6955


nospam@nouce.bellatlantic.net wrote:
> On 17 Sep 2006 04:58:06 -0700, dselwa@gmail.com wrote:
>
> >I came up with this idea to make a tiny antenna tuner. Thought maybe I
> >could remove the wire on a rheostat and rewind it with copper wire so I
> >can make a long wire antenna tuner .
> >
> >Dennis W6EH
>
> Check a back issues of QST.  Someone did it  (miracal antenna)
> in a construction article.
>
> They wrapped a ferrite toroid (large one) and use the wiper and
> bearing from a Wire wound rheostat to select taps on it.    I tried it
> for a very small Pi tuner and it was decent.
>
> Allison

ARRL members can download the article @
http://www.arrl.org/members-only/tis/info/pdf/0107032.pdf

This ideas was commercialized by the author and is now sold as the
Miracle Whip
See http://www.miracleantenna.com/ for details

Roger




From 75924747835629129
X-Google-Thread: fc2a5,e278be96f83def33,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Sun, 17 Sep 2006 22:34:22 -0500
From: "Tom Coates" <tecoatesHatesSpam@comcast.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: K5JHF Morse Code Device, 3.2/3.3
Date: Sun, 17 Sep 2006 23:32:06 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1409
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1409
Message-ID: <buudnX0TCrMjjpPYnZ2dnUVZ_s6dnZ2d@comcast.com>
Lines: 17
NNTP-Posting-Host: 69.251.161.44
X-Trace: sv3-xTBeEDXXLyTKs8O/
o8zIb8DP2cFFWbwAcqo2pPilCjRV2q4TFX5zTwVnW7mJG2DE3Bv3C0LernAymRx!
6avZgXggfPinySGbkWGw+tlO7NfKKEPwS2SLTspcfp48+pT458aZfAguGzsvKzaqMkCWpxZUBqy9!
ezX1DAauShzRTA==
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:6956

Does anyone have experience with this portable Morse training device, or others like it?

It's depicted here:
http://home.austin.rr.com/jfisher2/MCD.htm
K5JHF told me that no inventory remains and he does not plan to make any more. I am curious about how useful it proved to be for gaining and improving Morse proficiency.

Portability seems like an advantage, enabling the device to be used while driving, exercising, etc.

Tom, N3IJ

From -3043105857677141049
X-Google-Thread: fc2a5,75819dcebcb12b44,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-
mail
From: eternalsquire@comcast.net

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Anyone got ancient ARRL books and equipment or junk boxes to donate?
Date: 18 Sep 2006 00:26:36 -0700
Organization: http://groups.google.com
Lines: 16
Message-ID: <1158564396.521511.149980@e3g2000cwe.googlegroups.com>
NNTP-Posting-Host: 67.142.130.15
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158564400 17173 127.0.0.1 (18 Sep 2006 07:26:40 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 18 Sep 2006 07:26:40 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1;
SV1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=67.142.130.15;
   posting-account=RyqjfwwAAADvOapQHMNoJI3nvO5uDrpo
Xref: g2news2.google.com rec.radio.amateur.homebrew:6957
```

All,

One of my neighbors in the principal of a middle school that is interested in incorporating amateur radio as part of it's science club.
   This is located near the Navajo reservation.
I'd like to train the members to be Tech+ and focus on the Novice CW bands, because for these kids brass pounding across the country is where the 'wow' factor is.

Anyone interested in donating books, equipment, or junk boxes? It would be tax deductable.

Thanks in advance,

The Eternal Squire

```
From -3345225606334266753
X-Google-Thread: fc2a5,432d24a91ef96959,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i3g2000cwc.googlegroups.com!not-for-
mail
From: "ve2ghi@gmail.com" <ve2ghi@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Connectors for MFJ-269
Date: 18 Sep 2006 08:18:39 -0700
Organization: http://groups.google.com
Lines: 11
Message-ID: <1158592719.702229.69950@i3g2000cwc.googlegroups.com>
NNTP-Posting-Host: 24.122.165.163
Mime-Version: 1.0
```

Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158592723 25528 127.0.0.1 (18 Sep 2006 15:18:43 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 18 Sep 2006 15:18:43 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i3g2000cwc.googlegroups.com; posting-host=24.122.165.163;
   posting-account=-pDttA0AAAAKS4fEAfm0bFN6LvJH7-0x
Xref: g2news2.google.com rec.radio.amateur.homebrew:6958

Hello all of you,
  I am using my MFJ-269 now more frequently.
  The more I use it the more I have questions.
  What kind of connection do you use when you want to measure inductor or capacitor or to check the impedance of a resistor ?
  I have use the cable of my scope and a homebrew pl259 with wire and aligator grip with various result.

Happy day
72 de Jean (VE2GHI)

From -9092445455883966709
X-Google-Thread: fc2a5,4d8712d2438150bf
X-Google-Thread: fc8b1,4d8712d2438150bf
X-Google-Thread: 108122,4d8712d2438150bf
X-Google-Thread: 107ada,4d8712d2438150bf
X-Google-Thread: 111d0a,4d8712d2438150bf
X-Google-Attributes: gidfc2a5,gidfc8b1,gid108122,gid107ada,gid111d0a,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!newsfeed01.sul.t-online.de!t-online.de!news.germany.com!news.motzarella.org!not-for-mail
From: "The Professor" <telstarelectronics@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.misc,sci.electronics.basics
Subject: Re: SolderSmoke #32: HW101 (clutch) FT-101, CONNECTORS, 3RD ORDER, ENIGMA,
Date: Mon, 18 Sep 2006 12:12:51 -0400
Organization: Telstar Electronics
Lines: 25
Message-ID: <eemgi9$74s$1@registered.motzarella.org>
References: <1158515181.447997.53890@m73g2000cwd.googlegroups.com> <eek32o$1fuo$1@registered.motzarella.org> <450DD47B.8E451A1A@earthlink.net>
X-Trace: U2FsdGVkX1/sCmNdlSq8GSXPhzZ6kST4Ov16FnxAlw8D2qLcMOa8MROk11cr2EZCN4NZ00E2Ic3uR1XdJej2F0EhCq4LRFIqjApzcNI82QS06p5iFAZIQ6i6ect23DxuGoTdXdwXrvRUtylxUT7a8x1sec5ffmPgqdItASCXZyxS3vvISBCZDbD6ZunmqqfgIKnAUFOEV8E=

```
X-Complaints-To: abuse@motzarella.org
NNTP-Posting-Date: Mon, 18 Sep 2006 16:12:57 +0000 (UTC)
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com rec.radio.amateur.homebrew:6959
rec.radio.amateur.boatanchors:5437 rec.radio.amateur.equipment:6278
rec.radio.amateur.misc:21845 sci.electronics.basics:25699


"Michael A. Terrell" <mike.terrell@earthlink.net> wrote in message
news:450DD47B.8E451A1A@earthlink.net...
> The Professor wrote:
>>
>> stop spamming the group asshole.
>>
>> www.telstar-electronics.com
>>
>
>
>   Thanks for your spam, Professor.  I forwarded it to: FCCINFO@fcc.gov
> to see what they think of your CB linears.
>
>
You are the most clueless asshole in the group and you didn't forward
anything to anyone you whiner.

It's a 10 meter amp if you must know..... LOL
> --
> Service to my country? Been there, Done that, and I've got my DD214
>
Go swab the dick asshole.




From 5062381193854656802
X-Google-Thread: fc2a5,432d24a91ef96959
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-
mail
From: jgboyles@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Connectors for MFJ-269
Date: 18 Sep 2006 11:33:25 -0700
Organization: http://groups.google.com
Lines: 28
Message-ID: <1158604405.231617.155540@b28g2000cwb.googlegroups.com>
References: <1158592719.702229.69950@i3g2000cwc.googlegroups.com>
NNTP-Posting-Host: 64.12.116.11
```

```
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158604410 23792 127.0.0.1 (18 Sep 2006 18:33:30 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 18 Sep 2006 18:33:30 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.0.3705; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 Turboweb
[mtc-tf073 8.4.1], HTTP/1.1 cache-mtc-aa07.proxy.aol.com[400C740B] (Traffic-
Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=64.12.116.11;
   posting-account=Xsny5QwAAACH3aqqoi-j8SncnYoXKFtQ
Xref: g2news2.google.com rec.radio.amateur.homebrew:6960
```

ve2ghi@gmail.com wrote:

> Hello all of you,
>   I am using my MFJ-269 now more frequently.
>   The more I use it the more I have questions.
>   What kind of connection do you use when you want to measure inductor
> or capacitor or to check the impedance of a resistor ?
>   I have use the cable of my scope and a homebrew pl259 with wire and
> aligator grip with various result.
>
> Happy day
> 72 de Jean (VE2GHI)

Hi Jean, I use a PL259 and a couple of short pig tails (6cm) with an minature alligator clip.

If you are measuring L or C, their Reactance is frequency dependent. The frequency at which you measure must be such that Xl or Xc is less than 650 ohms. (the MFJ takes the reactance and the frequency and converts that to L or C).   Sometimes the frequency will be high enough that the stray L or C of the pig tails will affect your reading. Up above 20-25 Mhz I measure the L and C without the component hooked up and subtract that reading from the one I get with the component connected. Hopefully that takes some of the error introduced by the long leads out.

Gary N4AST

```
From -7613666274647276543
X-Google-Thread: fc2a5,4d8712d2438150bf
X-Google-Thread: fc8b1,4d8712d2438150bf
X-Google-Thread: 108122,4d8712d2438150bf
X-Google-Thread: 107ada,4d8712d2438150bf
X-Google-Thread: 111d0a,4d8712d2438150bf
X-Google-Attributes: gidfc2a5,gidfc8b1,gid108122,gid107ada,gid111d0a,public
```

X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread4.news.pas.earthlink.net.POSTED!b1a104da!not-for-mail
Message-ID: <450EF113.A5BAA06D@earthlink.net>
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Reply-To: mike.terrell@earthlink.net
Organization: http://home.earthlink.net/~mike.terrell/
X-Mailer: Mozilla 4.78 [en]C-CCK-MCD   (Win98; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.misc,sci.electronics.basics
Subject: Re: SolderSmoke #32: HW101 (clutch) FT-101, CONNECTORS, 3RD ORDER,
 ENIGMA,
References: <1158515181.447997.53890@m73g2000cwd.googlegroups.com>
<eek32o$1fuo$1@registered.motzarella.org> <450DD47B.8E451A1A@earthlink.net>
<eemgi9$74s$1@registered.motzarella.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 15
Date: Mon, 18 Sep 2006 19:20:14 GMT
NNTP-Posting-Host: 24.110.34.161
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1158607214 24.110.34.161 (Mon, 18 Sep
2006 12:20:14 PDT)
NNTP-Posting-Date: Mon, 18 Sep 2006 12:20:14 PDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:6961
rec.radio.amateur.boatanchors:5443 rec.radio.amateur.equipment:6284
rec.radio.amateur.misc:21855 sci.electronics.basics:25705

The Professor wrote:
>
> It's a 10 meter amp if you must know..... LOL

Not when its advertised to 30 MHz

--
Service to my country? Been there, Done that, and I've got my DD214 to
prove it.
Member of DAV #85.

Michael A. Terrell
Central Florida

From 6799574352300441251
X-Google-Thread: fc2a5,4d8712d2438150bf
X-Google-Thread: fc8b1,4d8712d2438150bf
X-Google-Thread: 108122,4d8712d2438150bf

```
X-Google-Thread: 107ada,4d8712d2438150bf
X-Google-Thread: 111d0a,4d8712d2438150bf
X-Google-Attributes: gidfc2a5,gidfc8b1,gid108122,gid107ada,gid111d0a,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.75.MISMATCH!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe04.lga.POSTED!53ab2750!not-for-mail
From: "Brian Hill" <good@it.net>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.amateur.equipme
nt,rec.radio.amateur.misc,sci.electronics.basics
References: <1158515181.447997.53890@m73g2000cwd.googlegroups.com>
<eek32o$1fuo$1@registered.motzarella.org> <450DD47B.8E451A1A@earthlink.net>
<eemgi9$74s$1@registered.motzarella.org>
Subject: Re: SolderSmoke #32: HW101 (clutch) FT-101, CONNECTORS, 3RD ORDER,
ENIGMA,
Lines: 33
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
X-Antivirus: avast! (VPS 0637-2, 09/15/2006), Outbound message
X-Antivirus-Status: Clean
Message-ID: <2DCPg.33$_h1.15@newsfe04.lga>
X-Trace:
noffecneefnkbhgfijjdnojopddcmjimoglliihkgeileaiapbgnphacaiellkogmjmlglfpnnaoofmndg
ejiekepafajloimofpmendkdkbjfbmloejfpghhdjbpmihglbbcfickjagekga
NNTP-Posting-Date: Mon, 18 Sep 2006 12:40:46 MST
Date: Mon, 18 Sep 2006 14:40:53 -0500
Xref: g2news2.google.com rec.radio.amateur.homebrew:6962
rec.radio.amateur.boatanchors:5444 rec.radio.amateur.equipment:6285
rec.radio.amateur.misc:21856 sci.electronics.basics:25709


"The Professor" <telstarelectronics@yahoo.com> wrote in message
news:eemgi9$74s$1@registered.motzarella.org...
>
> "Michael A. Terrell" <mike.terrell@earthlink.net> wrote in message
> news:450DD47B.8E451A1A@earthlink.net...
>> The Professor wrote:
>>>
>>> stop spamming the group asshole.
>>>
>>> www.telstar-electronics.com
>>>
>>
>>
>>   Thanks for your spam, Professor.  I forwarded it to: FCCINFO@fcc.gov
>> to see what they think of your CB linears.
>>
>>
```

```
> You are the most clueless asshole in the group and you didn't forward
> anything to anyone you whiner.
>
> It's a 10 meter amp if you must know..... LOL
>> --
>> Service to my country? Been there, Done that, and I've got my DD214
>>
> Go swab the dick asshole.
>

Griffey! Why are you always such a socially inept spaz?

BH





From -2321921927329422099
X-Google-Thread: fc2a5,e278be96f83def33
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!headwall.stanford.edu!
news-xfer.nntp.sonic.net!posts.news.sonic.net!nnrp0.nntp.sonic.net!not-for-mail
From: Rex  <me@hutmail.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: K5JHF Morse Code Device, 3.2/3.3
Date: Mon, 18 Sep 2006 13:31:29 -0700
Message-ID: <c20ug29tmg8kh0n71j7i38tkuuirj6dm5l@4ax.com>
References: <buudnX0TCrMjjpPYnZ2dnUVZ_s6dnZ2d@comcast.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 30
Organization: Sonic.Net
NNTP-Posting-Date: 18 Sep 2006 20:30:14 GMT
NNTP-Posting-Host: 0c898976.news.sonic.net
X-Trace:
DXC=cUiWe1:\SeQPQJHBBS[bFVm4K\QM1CV^P1OYf0H`?;XQ1I=V3ok>jaUIK2Tb[ic:DQM;2nJPR1fISm
SOgLjd;L7^
X-Complaints-To: abuse@sonic.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:6963

On Sun, 17 Sep 2006 23:32:06 -0400, "Tom Coates"
<tecoatesHatesSpam@comcast.net> wrote:

>Does anyone have experience with this portable Morse training device, or
>others like it?
>
>It's depicted here:
>http://home.austin.rr.com/jfisher2/MCD.htm
>K5JHF told me that no inventory remains and he does not plan to make any
>more. I am curious about how useful it proved to be for gaining and
```

>improving Morse proficiency.
>
>Portability seems like an advantage, enabling the device to be used while
>driving, exercising, etc.
>
>Tom, N3IJ
>

You can check out my free program:
http://www.xertech.net/Projects/CPwin.html

or scroll down the page to a set of zipped pre-recorded mp3 files.

I wrote it so I could record sessions and practice with a cheap personal
audio player. Key feature is audio voice prompt of what was sent in cw.
I think the idea works, but I need to keep at it myself. I never seem to
keep at it long enough to improve.

-Rex, KK6MK

From 2088540710723196430
X-Google-Thread: fc2a5,e278be96f83def33
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!bcklog1.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 18 Sep 2006 16:12:42 -0500
Date: Mon, 18 Sep 2006 22:12:57 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/
20060910 SeaMonkey/1.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: K5JHF Morse Code Device, 3.2/3.3
References: <buudnX0TCrMjjpPYnZ2dnUVZ_s6dnZ2d@comcast.com>
<c20ug29tmg8kh0n71j7i38tkuuirj6dm5l@4ax.com>
In-Reply-To: <c20ug29tmg8kh0n71j7i38tkuuirj6dm5l@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <iO2dnfMMCMVXlpLYRVny2w@pipex.net>
Lines: 22
NNTP-Posting-Host: 81.178.254.145
X-Trace: sv3-RLxPLRCDFEcf/sws4pVs3hwTsdE7JGlTcOIDalflSIiBkM77FotLNh/Tt/
tTZR60/7U27NB7dgymcH5!l1hqb9UaaZhQgdPD/
wtJXDDCj5C2Z5jjKKCiIMZadzhHbaUs+JVwCRhaEknIleEHUrWdqqlKrKny!TuMXbUB/Vs4nWQ==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly

```
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:6964

  > You can check out my free program:
> http://www.xertech.net/Projects/CPwin.html
>
> or scroll down the page to a set of zipped pre-recorded mp3 files.
>
> I wrote it so I could record sessions and practice with a cheap personal
> audio player. Key feature is audio voice prompt of what was sent in cw.
> I think the idea works, but I need to keep at it myself. I never seem to
> keep at it long enough to improve.
>
> -Rex, KK6MK
+++++++++++++++++++++++++++++++++++++++
Rex , Thanks for making this prog. freely available , it works very
well.  Congrats.
The large character display  & voice feedback is excellent for visually
impaired users.

I have passed the prog on to other hams.


Frank     GM0CSZ / KN6WH       north of Scotland UK




From 5671210490369691390
X-Google-Thread: fc2a5,4d8712d2438150bf
X-Google-Thread: fc8b1,4d8712d2438150bf
X-Google-Thread: 108122,4d8712d2438150bf
X-Google-Thread: 107ada,4d8712d2438150bf
X-Google-Thread: 111d0a,4d8712d2438150bf
X-Google-Attributes: gidfc2a5,gidfc8b1,gid108122,gid107ada,gid111d0a,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!newsgate.cistron.nl!
xs4all!news2.euro.net!138.199.65.86.MISMATCH!sn-xt-ams-06!sn-xt-ams-08!sn-ams!sn-
feed-ams-03!sn-xt-ams-03!sn-post-ams-02!sn-post-sjc-01!supernews.com!
corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.amateur.equipme
nt,rec.radio.amateur.misc,sci.electronics.basics
Subject: Re: SolderSmoke #32: HW101 (clutch) FT-101, CONNECTORS, 3RD ORDER,
 ENIGMA,
Date: Mon, 18 Sep 2006 21:31:34 -0000
Organization: Home for Obscure Mythical Beings
Message-ID: <12gu41mbpofch59@corp.supernews.com>
References: <1158515181.447997.53890@m73g2000cwd.googlegroups.com>
<450DD47B.8E451A1A@earthlink.net> <eemgi9$74s$1@registered.motzarella.org>
<450EF113.A5BAA06D@earthlink.net>
X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
```

```
X-Complaints-To: abuse@supernews.com
Lines: 26
Xref: g2news2.google.com rec.radio.amateur.homebrew:6965
rec.radio.amateur.boatanchors:5448 rec.radio.amateur.equipment:6287
rec.radio.amateur.misc:21859 sci.electronics.basics:25711

In article <450EF113.A5BAA06D@earthlink.net>,
Michael A. Terrell <mike.terrell@earthlink.net> wrote:
>The Professor wrote:
>>
>> It's a 10 meter amp if you must know..... LOL
>
>
>  Not when its advertised to 30 MHz

And, it appears not to comply with several specific FCC regulations:

-  It has gain through the CB frequencies (violates 97.317 (b)) and is
   thus not eligible for certification, which is required for amps
   operating below 144 MHz.  The FCC may be about to relax or eliminate
   the 97.317 rules about external amps operating in this frequency
   range, but for the moment this reg is still part of the law.

-  Its second- and third-harmonic distortion levels are roughly
   10 dB too high to meet the -43 dBc requirement (violates 97.307
   (d)).

--
Dave Platt <dplatt@radagast.org>                                   AE6EO
Hosting the Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!


From -5230557742085253546
X-Google-Thread: fc2a5,19e6704e294e661f,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.75.MISMATCH!hwmnpeer01.lga!news.highwinds-media.com!news-
server.columbus.rr.com!cyclone2.kc.rr.com!news2.kc.rr.com!news-
post.tampabay.rr.com!tornado.tampabay.rr.com.POSTED!53ab2750!not-for-mail
From: Jim Flanagan <jflan@tampabay.rr.com>
User-Agent: Thunderbird 1.5.0.5 (Windows/20060719)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Recommended Method for PCB mounting of Toroidal Coils
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 10
Message-ID: <oMEPg.20$%y3.6@tornado.tampabay.rr.com>
Date: Mon, 18 Sep 2006 22:07:16 GMT
```

```
NNTP-Posting-Host: 72.185.114.46
X-Complaints-To: abuse@rr.com
X-Trace: tornado.tampabay.rr.com 1158617236 72.185.114.46 (Mon, 18 Sep 2006
18:07:16 EDT)
NNTP-Posting-Date: Mon, 18 Sep 2006 18:07:16 EDT
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:6966

Hi..
In the past, I've always mounted my coils vertically but
this time around, I need to mount some horizontally.  I was
simply going to glue them to the pcb but wanted first to get
input as to other home brewer's method of mounting toroids to
a pcb.  The toroids will be FT-37-43 type wide band transformers
in the 10MHz range. Your input is welcome.  Take care.

-jim
WB5KYE



From -7239334151630746261
X-Google-Thread: fc2a5,4d8712d2438150bf
X-Google-Thread: fc8b1,4d8712d2438150bf
X-Google-Thread: 108122,4d8712d2438150bf
X-Google-Thread: 107ada,4d8712d2438150bf
X-Google-Thread: 111d0a,4d8712d2438150bf
X-Google-Attributes: gidfc2a5,gidfc8b1,gid108122,gid107ada,gid111d0a,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!
stamper.news.pas.earthlink.net!newsread3.news.pas.earthlink.net.POSTED!b1a104da!
not-for-mail
Message-ID: <450F2121.F7C249B2@earthlink.net>
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Reply-To: mike.terrell@earthlink.net
Organization: http://home.earthlink.net/~mike.terrell/
X-Mailer: Mozilla 4.78 [en]C-CCK-MCD   (Win98; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.amateur.equipme
nt,rec.radio.amateur.misc,sci.electronics.basics
Subject: Re: SolderSmoke #32: HW101 (clutch) FT-101, CONNECTORS, 3RD ORDER,
 ENIGMA,
References: <1158515181.447997.53890@m73g2000cwd.googlegroups.com>
<eek32o$1fuo$1@registered.motzarella.org> <450DD47B.8E451A1A@earthlink.net>
<eemgi9$74s$1@registered.motzarella.org> <2DCPg.33$_h1.15@newsfe04.lga>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 44
Date: Mon, 18 Sep 2006 22:45:23 GMT
NNTP-Posting-Host: 24.110.34.161
X-Complaints-To: abuse@earthlink.net
```

```
X-Trace: newsread3.news.pas.earthlink.net 1158619523 24.110.34.161 (Mon, 18 Sep
2006 15:45:23 PDT)
NNTP-Posting-Date: Mon, 18 Sep 2006 15:45:23 PDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:6967
rec.radio.amateur.boatanchors:5449 rec.radio.amateur.equipment:6288
rec.radio.amateur.misc:21865 sci.electronics.basics:25716

Brian Hill wrote:
>
> "The Professor" <telstarelectronics@yahoo.com> wrote in message
> news:eemgi9$74s$1@registered.motzarella.org...
> >
> > "Michael A. Terrell" <mike.terrell@earthlink.net> wrote in message
> > news:450DD47B.8E451A1A@earthlink.net...
> >> The Professor wrote:
> >>>
> >>> stop spamming the group asshole.
> >>>
> >>> www.telstar-electronics.com
> >>>
> >>
> >>
> >>   Thanks for your spam, Professor.  I forwarded it to: FCCINFO@fcc.gov
> >> to see what they think of your CB linears.
> >>
> >>
> > You are the most clueless asshole in the group and you didn't forward
> > anything to anyone you whiner.
> >
> > It's a 10 meter amp if you must know..... LOL
> >> --
> >> Service to my country? Been there, Done that, and I've got my DD214
> >>
> > Go swab the dick asshole.
> >
>
> Griffey! Why are you always such a socially inept spaz?
>
> BH


   20 generations of imbreeding tend to do that to rednecks.


--
Service to my country? Been there, Done that, and I've got my DD214 to
prove it.
Member of DAV #85.

Michael A. Terrell
Central Florida
```

```
From 1188248215821027339
X-Google-Thread: fc2a5,4d8712d2438150bf
X-Google-Thread: fc8b1,4d8712d2438150bf
X-Google-Thread: 108122,4d8712d2438150bf
X-Google-Thread: 107ada,4d8712d2438150bf
X-Google-Thread: 111d0a,4d8712d2438150bf
X-Google-Attributes: gidfc2a5,gidfc8b1,gid108122,gid107ada,gid111d0a,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!news.glorb.com!
newsfeed2.telusplanet.net!newsfeed.telus.net!edtnps82.POSTED!53ab2750!not-for-mail
From: "Homer J Simpson" <nobody@nowhere.com>
Newsgroups:
rec.radio.amateur.homebrew,rec.radio.amateur.boatanchors,rec.radio.amateur.equipme
nt,rec.radio.amateur.misc,sci.electronics.basics
References: <1158515181.447997.53890@m73g2000cwd.googlegroups.com>
<450DD47B.8E451A1A@earthlink.net> <eemgi9$74s$1@registered.motzarella.org>
<450EF113.A5BAA06D@earthlink.net> <12gu41mbpofch59@corp.supernews.com>
Subject: Re: SolderSmoke #32: HW101 (clutch) FT-101, CONNECTORS, 3RD ORDER,
ENIGMA,
Lines: 31
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <8mFPg.24256$cz3.6399@edtnps82>
Date: Mon, 18 Sep 2006 22:47:32 GMT
NNTP-Posting-Host: 209.121.230.219
X-Trace: edtnps82 1158619652 209.121.230.219 (Mon, 18 Sep 2006 16:47:32 MDT)
NNTP-Posting-Date: Mon, 18 Sep 2006 16:47:32 MDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:6968
rec.radio.amateur.boatanchors:5450 rec.radio.amateur.equipment:6289
rec.radio.amateur.misc:21866 sci.electronics.basics:25717
```

"Dave Platt" <dplatt@radagast.org> wrote in message
news:12gu41mbpofch59@corp.supernews.com...

```
> And, it appears not to comply with several specific FCC regulations:
>
> -  It has gain through the CB frequencies (violates 97.317 (b)) and is
>   thus not eligible for certification, which is required for amps
>   operating below 144 MHz.  The FCC may be about to relax or eliminate
>   the 97.317 rules about external amps operating in this frequency
>   range, but for the moment this reg is still part of the law.
>
> -  Its second- and third-harmonic distortion levels are roughly
>   10 dB too high to meet the -43 dBc requirement (violates 97.307
>   (d)).
```

Perhaps it's designed for IPods? Most everything seems to be!

From -5766337924739869240
X-Google-Thread: fc2a5,19e6704e294e661f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-mail
From: jgboyles@aol.com
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Recommended Method for PCB mounting of Toroidal Coils
Date: 18 Sep 2006 15:57:51 -0700
Organization: http://groups.google.com
Lines: 21
Message-ID: <1158620271.004381.39690@e3g2000cwe.googlegroups.com>
References: <oMEPg.20$%y3.6@tornado.tampabay.rr.com>
NNTP-Posting-Host: 64.12.116.11
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158620276 32225 127.0.0.1 (18 Sep 2006 22:57:56 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 18 Sep 2006 22:57:56 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1; SV1; .NET CLR 1.0.3705; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.1 Turboweb [mtc-tf123 8.4.1], HTTP/1.1 cache-mtc-aa07.proxy.aol.com[400C740B] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=64.12.116.11;
   posting-account=Xsny5QwAAACH3aqqoi-j8SncnYoXKFtQ
Xref: g2news2.google.com rec.radio.amateur.homebrew:6969

Jim Flanagan wrote:
> Hi..
> In the past, I've always mounted my coils vertically but
> this time around, I need to mount some horizontally. I was
> simply going to glue them to the pcb but wanted first to get
> input as to other home brewer's method of mounting toroids to
> a pcb. The toroids will be FT-37-43 type wide band transformers

> in the 10MHz range. Your input is welcome. Take care.
>
> -jim
> WB5KYE

Hi Jim, I guess the first thing I would consider is differences with
the leads getting to pads. Horizontal is more stable than vertical,
but takes up more space. I guess the big factor would be the space
requirement. I would never mount one vertical if there were space for
horizontal. That determination would be dependent on the layout of
your circuit board. Good luck.
Gary N4AST

From 6423284992978295107
X-Google-Thread: fc2a5,b8f970d647a42d04,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.75.MISMATCH!hwmnpeer01.lga!news.highwinds-media.com!news-
server.columbus.rr.com!cyclone2.kc.rr.com!news2.kc.rr.com!
tornado.socal.rr.com.POSTED!53ab2750!not-for-mail
From: "Don Hendrix" <sales@aaarfproducts.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: RF Connectors & Adapter Info
Lines: 3
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1106
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Message-ID: <7AFPg.10450$rE5.2466@tornado.socal.rr.com>
Date: Mon, 18 Sep 2006 23:02:27 GMT
NNTP-Posting-Host: 66.74.102.253
X-Complaints-To: abuse@rr.com
X-Trace: tornado.socal.rr.com 1158620547 66.74.102.253 (Mon, 18 Sep 2006 16:02:27 PDT)
NNTP-Posting-Date: Mon, 18 Sep 2006 16:02:27 PDT
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:6970

Please visit www.AAARFProducts.com

From 4291412653441911093
X-Google-Thread: fc2a5,e278be96f83def33
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!novia!news-xfer.nntp.sonic.net!

```
posts.news.sonic.net!nnrp0.nntp.sonic.net!not-for-mail
From: Rex  <me@hutmail.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: K5JHF Morse Code Device, 3.2/3.3
Date: Mon, 18 Sep 2006 20:48:03 -0700
Message-ID: <92qug2t2kmggh596voab2puq3veo2hfair@4ax.com>
References: <buudnX0TCrMjjpPYnZ2dnUVZ_s6dnZ2d@comcast.com>
<c20ug29tmg8kh0n71j7i38tkuuirj6dm5l@4ax.com> <iO2dnfMMCMVXlpLYRVny2w@pipex.net>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 18
Organization: Sonic.Net
NNTP-Posting-Date: 19 Sep 2006 03:47:30 GMT
NNTP-Posting-Host: 36f5dfab.news.sonic.net
X-Trace:
DXC=Sl[T2_3RZ^R:GPg[CXEOAZm4K\QM1CV^P1OYf0H`?;XQ9N9oZ_9FlU]IK2Tb[ic:DQo^C>``N0c]Ym
SOgLjd;L7^
X-Complaints-To: abuse@sonic.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:6971

On Mon, 18 Sep 2006 22:12:57 +0100, Highland Ham
<abcgm0csz.kn6whxyz@dsl.pipex.com> wrote:

>Rex , Thanks for making this prog. freely available , it works very
>well.  Congrats.
>The large character display  & voice feedback is excellent for visually
>impaired users.
>
>I have passed the prog on to other hams.
>
>
>Frank     GM0CSZ / KN6WH       north of Scotland UK

You are quite welcome. There are links on my page to other programs and
information that I found really good too.

-Rex, KK6MK




From 2928521724706820986
X-Google-Thread: fc2a5,19e6704e294e661f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!newsfeed.stanford.edu!
headwall.stanford.edu!news-xfer.nntp.sonic.net!posts.news.sonic.net!
nnrp0.nntp.sonic.net!not-for-mail
From: Rex  <me@hutmail.invalid>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Recommended Method for PCB mounting of Toroidal Coils
Date: Mon, 18 Sep 2006 20:54:09 -0700
```

```
Message-ID: <caqug2tgupnd2t9njlthra60h9vb8ck0u4@4ax.com>
References: <oMEPg.20$%y3.6@tornado.tampabay.rr.com>
X-Newsreader: Forte Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 18
Organization: Sonic.Net
NNTP-Posting-Date: 19 Sep 2006 03:53:33 GMT
NNTP-Posting-Host: 36f5dfab.news.sonic.net
X-Trace:
DXC=8i<:ek[R\oBD3cYZEI1YUJm4K\QM1CV^@1OYf0H`?;XA9N9oZ_9FlUMIK2Tb[ic:DAo^C>``N0c]Im
SOgLjd;L7N
X-Complaints-To: abuse@sonic.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:6972

On Mon, 18 Sep 2006 22:07:16 GMT, Jim Flanagan <jflan@tampabay.rr.com>
wrote:

>Hi..
>In the past, I've always mounted my coils vertically but
>this time around, I need to mount some horizontally.  I was
>simply going to glue them to the pcb but wanted first to get
>input as to other home brewer's method of mounting toroids to
>a pcb.  The toroids will be FT-37-43 type wide band transformers
>in the 10MHz range. Your input is welcome.  Take care.
>
>-jim
>WB5KYE

Yeah. A touch of silicon adhesive or hot melt seems obvious. Can't think
what more is needed unless you find something that seems to not be
working as expected.



From 103388658412825053
X-Google-Thread: fc2a5,cc968d9642484def,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: ARC-5 Tuning Shaft Adapters
Date: 18 Sep 2006 21:03:02 -0700
Organization: http://groups.google.com
Lines: 20
Message-ID: <1158638582.419376.97510@k70g2000cwa.googlegroups.com>
NNTP-Posting-Host: 207.200.116.71
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158638588 14051 127.0.0.1 (19 Sep 2006 04:03:08 GMT)
```

```
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 19 Sep 2006 04:03:08 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 Turboweb [ntc-ta022 8.4.1], HTTP/1.1 cache-ntc-ab07.proxy.aol.com[CFC87447] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=207.200.116.71;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:6973
```

Does anyone have or can they direct me to a couple of "splined" tuning shaft adapters that fit the ARC-5 Command Set receivers? I'd like to adapt some of the ganged variable capacitors from those sets into some homebuilt equipment...lovely antibacklash gear reduction on them.

Been trying to search the 'web (at the usual suspects such as Fair Radio, Toronto Sales, etc.) but no joy. Yes, I know that some consumer radio plastic knobs will fit, but those also break very easy making the MTBFs very low indeed.

I would suppose that there is a mechanical description for the splines and diameters but, alas, I ain't one of those. I've a feeling that several mechanical hardware suppliers have them in stock.

Will appreciate any info, will trade assorted items for a couple of metal adapters to metal shafts.

LenAnderson@ieee.org

```
From -8848582139256928174
X-Google-Thread: fc2a5,19e6704e294e661f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!m73g2000cwd.googlegroups.com!not-for-mail
From: "MadEngineer" <glenn.b.dixon@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Recommended Method for PCB mounting of Toroidal Coils
Date: 19 Sep 2006 05:28:02 -0700
Organization: http://groups.google.com
Lines: 20
Message-ID: <1158668882.910357.278880@m73g2000cwd.googlegroups.com>
References: <oMEPg.20$%y3.6@tornado.tampabay.rr.com>
NNTP-Posting-Host: 208.177.146.102
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158668889 10140 127.0.0.1 (19 Sep 2006 12:28:09 GMT)
```

X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 19 Sep 2006 12:28:09 +0000 (UTC)
In-Reply-To: <oMEPg.20$%y3.6@tornado.tampabay.rr.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7)
Gecko/20060909 Firefox/1.5.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: m73g2000cwd.googlegroups.com; posting-host=208.177.146.102;
   posting-account=EvBMNw0AAABX-Et6w0086s4DXqrY-API
Xref: g2news2.google.com rec.radio.amateur.homebrew:6974

Jim Flanagan wrote:
> Hi..
> In the past, I've always mounted my coils vertically but
> this time around, I need to mount some horizontally. I was
> simply going to glue them to the pcb but wanted first to get
> input as to other home brewer's method of mounting toroids to
> a pcb. The toroids will be FT-37-43 type wide band transformers
> in the 10MHz range. Your input is welcome. Take care.
>
> -jim
> WB5KYE

Here's what Doug Hendricks recommends:

http://www.qrpkits.com/buildertip01.html

Regards,
Glenn Dixon

From 3484604338948415199
X-Google-Thread: fc2a5,19e6704e294e661f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.75.MISMATCH!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe04.lga.POSTED!53ab2750!not-for-mail
From: "xpyttl" <xpyttl_NOSPAM@earthling.net>
Newsgroups: rec.radio.amateur.homebrew
References: <oMEPg.20$%y3.6@tornado.tampabay.rr.com>
Subject: Re: Recommended Method for PCB mounting of Toroidal Coils
Lines: 13
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <pORPg.781$_h1.330@newsfe04.lga>
X-Trace:

```
noffecneefnkbhgfijjdnojopddcmjimnipclfhgpohhkbganicfceledepkikoolhlefpnpglhfdcnhjo
lebajhnmahfpcdmofpmendkdkbjfbmlbgookoeoileeaaceojlggmcfeegpadp
NNTP-Posting-Date: Tue, 19 Sep 2006 05:56:53 MST
Date: Tue, 19 Sep 2006 08:56:41 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:6975

"Jim Flanagan" <jflan@tampabay.rr.com> wrote in message
news:oMEPg.20$%y3.6@tornado.tampabay.rr.com...
> Hi..
> In the past, I've always mounted my coils vertically but
> this time around, I need to mount some horizontally.  I was
> simply going to glue them to the pcb but wanted first to get
> input as to other home brewer's method of mounting toroids to

Several kits drill a hole in the PCB and use a nylon screw

..




From 1928071351970933875
X-Google-Thread: fc2a5,19e6704e294e661f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns14feed!worldnet.att.net!attbi_s72.POSTED!53ab2750!not-for-
mail
From: "William E. Sabin" <w.sabin@mchsi.com>
Newsgroups: rec.radio.amateur.homebrew
References: <oMEPg.20$%y3.6@tornado.tampabay.rr.com>
<pORPg.781$_h1.330@newsfe04.lga>
Subject: Re: Recommended Method for PCB mounting of Toroidal Coils
Lines: 24
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <LrSPg.195474$1i1.53858@attbi_s72>
NNTP-Posting-Host: 12.217.178.216
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s72 1158673259 12.217.178.216 (Tue, 19 Sep 2006 13:40:59 GMT)
NNTP-Posting-Date: Tue, 19 Sep 2006 13:40:59 GMT
Organization: AT&T ASP.att.net
Date: Tue, 19 Sep 2006 13:40:59 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:6976

Place a thick plastic washer between the toroid and the board to reduce
stray magnetic and capacitive coupling between coil and metallic surface.
Toroid coils are not completely devoid of coupling to nearby external
objects and surfaces.
```

```
Bill W0IYH

"xpyttl" <xpyttl_NOSPAM@earthling.net> wrote in message
news:pORPg.781$_h1.330@newsfe04.lga...
> "Jim Flanagan" <jflan@tampabay.rr.com> wrote in message
> news:oMEPg.20$%y3.6@tornado.tampabay.rr.com...
>> Hi..
>> In the past, I've always mounted my coils vertically but
>> this time around, I need to mount some horizontally.  I was
>> simply going to glue them to the pcb but wanted first to get
>> input as to other home brewer's method of mounting toroids to
>
> Several kits drill a hole in the PCB and use a nylon screw
>
> ..
>
>




From 1106553726632647617
X-Google-Thread: fc2a5,19e6704e294e661f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
From: budgie <me@privacy.net>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Recommended Method for PCB mounting of Toroidal Coils
Date: Tue, 19 Sep 2006 22:14:50 +0800
Message-ID: <3muvg2pe7q80p4mu8sscnh9vr8mikf9i04@4ax.com>
References: <oMEPg.20$%y3.6@tornado.tampabay.rr.com>
X-Newsreader: Forte Free Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
NNTP-Posting-Host: dsl-58-7-152-38.wa.westnet.com.au
X-Trace: quokka.wn.com.au 1158675019 58.7.152.38 (19 Sep 2006 22:10:19 +0800)
Lines: 13
X-Complaints-To: abuse@westnet.com.au
Path: g2news2.google.com!news3.google.com!news.glorb.com!quokka.wn.com.au!not-for-
mail
Xref: g2news2.google.com rec.radio.amateur.homebrew:6977

On Mon, 18 Sep 2006 22:07:16 GMT, Jim Flanagan <jflan@tampabay.rr.com> wrote:

>Hi..
>In the past, I've always mounted my coils vertically but
>this time around, I need to mount some horizontally.  I was
>simply going to glue them to the pcb but wanted first to get
>input as to other home brewer's method of mounting toroids to
>a pcb.  The toroids will be FT-37-43 type wide band transformers
>in the 10MHz range. Your input is welcome.  Take care.
```

I've always mounted smaller toroids (<1" OD with copper) vertically. For larger ones, either a pair of cable ties of some neutral cure silicone adhesive works for me.

```
From -3824369689730661962
X-Google-Thread: fc2a5,19e6704e294e661f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!wns14feed!worldnet.att.net!24.30.200.11!news-east.rr.com!
news.rr.com!news-server.columbus.rr.com!cyclone2.kc.rr.com!news2.kc.rr.com!news-
post.tampabay.rr.com!tornado.tampabay.rr.com.POSTED!53ab2750!not-for-mail
From: Jim Flanagan <jflan@tampabay.rr.com>
User-Agent: Thunderbird 1.5.0.5 (Windows/20060719)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Recommended Method for PCB mounting of Toroidal Coils
References: <oMEPg.20$%y3.6@tornado.tampabay.rr.com>
<1158668882.910357.278880@m73g2000cwd.googlegroups.com>
In-Reply-To: <1158668882.910357.278880@m73g2000cwd.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 25
Message-ID: <8qUPg.194$jf2.17@tornado.tampabay.rr.com>
Date: Tue, 19 Sep 2006 15:55:48 GMT
NNTP-Posting-Host: 72.185.114.46
X-Complaints-To: abuse@rr.com
X-Trace: tornado.tampabay.rr.com 1158681348 72.185.114.46 (Tue, 19 Sep 2006
11:55:48 EDT)
NNTP-Posting-Date: Tue, 19 Sep 2006 11:55:48 EDT
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:6978
```

```
MadEngineer wrote:
> Jim Flanagan wrote:
>> Hi..
>> In the past, I've always mounted my coils vertically but
>> this time around, I need to mount some horizontally.  I was
>> simply going to glue them to the pcb but wanted first to get
>> input as to other home brewer's method of mounting toroids to
>> a pcb.  The toroids will be FT-37-43 type wide band transformers
>> in the 10MHz range. Your input is welcome.  Take care.
>>
>> -jim
>> WB5KYE
>
> Here's what Doug Hendricks recommends:
>
> http://www.qrpkits.com/buildertip01.html
>
> Regards,
> Glenn Dixon
```

```
>
Hi Glenn..
   I checked this out and I LIKE it..  This is the
way that I am going to do it for now on..
Thanks.
jim


From -6140383516257193729
X-Google-Thread: fc2a5,19e6704e294e661f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!newsfeed2.easynews.com!
newsfeed1.easynews.com!easynews.com!easynews!sn-xt-sjc-03!sn-xt-sjc-06!sn-post-
sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Recommended Method for PCB mounting of Toroidal Coils
Date: Tue, 19 Sep 2006 09:00:13 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12h050d8nr3vbe2@corp.supernews.com>
References: <oMEPg.20$%y3.6@tornado.tampabay.rr.com>
<1158668882.910357.278880@m73g2000cwd.googlegroups.com>
<8qUPg.194$jf2.17@tornado.tampabay.rr.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 11
Xref: g2news2.google.com rec.radio.amateur.homebrew:6979

>> Here's what Doug Hendricks recommends:
>> http://www.qrpkits.com/buildertip01.html

Hmm... that doesn't really seem that much easier than just using a glue gun in
the first place, is it?

Personally I'd also worry about detuning due to having the coil sitting right
on top of the ground plane like that, but I suppose that if he's manually
aligning everything anyway it doesn't really matter.




From -5882620761517319503
X-Google-Thread: fc2a5,107de48dd3d2d81b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
```

bignews2.bellsouth.net.POSTED!ef49a7c3!not-for-mail
From: Ted <kilocycles**@**yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RFSim99 anomalies
Message-ID: <q0h0h2d8qqnd1ogh63h2mgi14gukl310um@4ax.com>
References: <1157140937.062925.222160@74g2000cwt.googlegroups.com>
<1157826213.298242.106000@b28g2000cwb.googlegroups.com>
<gh7hg2hnptgp18lbptt0tk9ung6v6hevu8@4ax.com>
<g49hg2dsslmn4a1u248a5k3popg9ir8gng@4ax.com>
<1158254169.568943.140220@p79g2000cwp.googlegroups.com>
X-Newsreader: Forte Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 146
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcboikamkpmjgaamdfjbfeaidjnaemoelcdiok
ompnccapjgkdbfbpeclalcloiihiplemhjjlcmombknkcbnlckolkdhlokdcpmfghccjlhodhihlcn
NNTP-Posting-Date: Tue, 19 Sep 2006 15:50:53 EDT
Organization: BellSouth Internet Group
Date: Tue, 19 Sep 2006 15:51:04 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:6980

Tom,
One other odditiy I found after replying was that with the 10dB basic pad loaded in in RFSim99, giving the bogus S parameter, by clicking on the up or down arrow for tolerance in the simulation mode, it would give what appeared to be reasonable results. However, clicking on the button to return it to normal gave the bogus value again. I guess I was optimistically thinking that after the tolerance iterations, it would see the error of its ways and give a realist value. Obviously, the software is not "self-healing", ala the topic of the recent IEEE Spectrum article.

What you say about extreme sensitivity is on the mark. I later experimented with GPLA and saw the same effect. I hadn't thought of it in the balanced bridge context.

The main reason I haven't homebrewed one of Rick Campbell's IQ designs is the need for those tight parameters, which translates to relatively high cost in the parts required... :(Some of the inductors for one of them, the IQ DC receiver, I think, are no longer available when I checked Mouser and Digi-Key. I suppose AADE still has the stock, but building from scratch is obviously cheaper if you can get a direct source.

One femtoFarad? Wow! I'll have to play around with this some more, and your idea of paralleling (or series-ing, I guess, as well), sounds interesting. It could be an indicator that the results are valid, I should hope.

I really like RFSim99 as a first-cut design tool. Very simple and straightforward. It's very nice for L-networks. As with the AADE filter designer, I typically then run any design through at least one other tool for confirmation. I've had some problems on occasion with crystal filter design for certain configurations using XLAD, so I've done the design using another tool, such as the AADE design tool, and then entered the values in LadBuild, and continued to tweak in GPLA.

We're very fortunate to have such programs at our disposal.

73,
Ted KX4OM

14 Sep 2006 10:16:09 -0700, "K7ITM" <k7itm@msn.com> wrote:

>Hey, thanks for verifying my results, Ted.
>
>It shouldn't be surprising that tiny variations in resistance cause
>large dB changes. Remember, you're essentially unbalancing a bridge,
>and looking at the unbalance over 100dB down from full "un-balance."
>That is, -100dB represents a one part in 10^5 unbalance. 40dB return
>loss is really quite good, and something you expect only in a pretty
>carefully controlled setup.
>
>This same sort of thing reaches out and grabs you if you try to make a
>direct conversion receiver with I and Q paths to balance out the
>unwanted sideband. You need balance of not worse than ten parts per
>million to get 100dB sideband suppression, and the components you are
>using probably have, at BEST, temperature coefficients that can make
>things worse than that with only a one degree C change.
>
>On the up side, it's exactly this sensitivity that is a strong plus for
>bridge measurements.
>
>Also, I'm not about to throw RFSim99 out of my toolkit. I just need to
>be aware of its anomalies, and I'll be very cautious about saving
>results as an S-parameter file for sure. I see that even an attenuator
>that's detuned enough that it has only 60dB return loss still gives 90
>degree phase shifts! But if I add even 1fF of capacitance across the
>71.151 ohm resistor (in the 10dB attenuator, as designed by the
>attenuator tool), the saved S-parameter file is OK. S12 and S21 are
>zero degrees (till you get out to really high frequencies). S11 and
>S22 still show -90 degrees phase, but with a capacitive load (every so
>slightly capacitive), that seems like the right answer.
>
>By the way, a trick that seems to work to get very accurate component
>values is to put parts in parallel or series. For example, to simulate
>a 57.6325nH inductance (ridiculous though it is in practice), invoke a
>57.00nH inductance in series with a 632.5pH. Unfortunately, that
>doesn't work for sub-ohm resistances; milliohms are converted to ohms,
>and only two decimal places. Double-checking to see that the 57.6325nH
>inductance simulates correctly, I resonated it with 1nF. I expect
>resonance at 20.964591MHz, and RFSim with 401 points displayed from

```
>20.965 to 20.967, shows resonance at 20.96460.  Changing the simulated
>inductance by 0.1pH changes the resonance as expected.
>
>Cheers,
>Tom
>
>
>Ted wrote:
>> On Wed, 13 Sep 2006 20:26:41 -0400, Ted <kilocycles**@**yahoo.com>
>> wrote:
>>
>> >On 9 Sep 2006 11:23:33 -0700, "Professor" <briangriffey@sbcglobal.net>
>> >wrote:
>> >
>> >>
>> >>K7ITM wrote:
>> >>> Hi all,
>> >>>
>> >>> Every once in a while I come across an anomaly in RFSim99.  I'd be
>> >>> happy if someone could tell me that I'm doing something wrong in the
>> >>> following:
>> >>>
>> >>> Fire up the simulator.  Tools-->Design-->Attenuator.  Pi Section, 50R
>> >>> input impedance, 50R output impedance, 10dB attenuation.  Simulate.
>> >>> !Current schematic will be overwritten; OK.  Now note that the graphics
>> >>> window displays S11 as 2E+31dB.
>> >>>
>> >>> In the circuit window, edit the values of the two 96.25 ohm resistors;
>> >>> they have apparently been simulated to more decimal places than shown.
>> >>> Just manually enter 96.25 ohms for each.  Now the magnitude of S11 and
>> >>> S22 show up as -102.69dB; that seems reasonable.  The phases for S11,
>> >>> S12, S21 and S22 are all zero.  Now, from the graphics window,
>> >---snip---
>> >
>> >Aarrgg!  This is very disappointing!  I usually check at least my
>> >values for LC circuits against the LADPAC programs In "Experimental
>> >Methods in RF Design", however.  By the way, when I click on
>> >Tools/DesignAttenuator, the schematic that is in the pop-up window for
>> >default 10 dB  shows the three resistor values as 71.151 and 96.248.
>> >When I go through the process you did, I get the same results.  I
>> >saved the file, and closed and reopened the program.  Then, I loaded
>> >the saved 10dBAtten.cct file, and of course got the same -102.69 dB
>> >for S11.  Then, I Tuned the values back to 71.151 (which immediately
>> >displayed only 71.15), and tuned the other two to 96.248, (which
>> >displayed 96.25).  When I simulated, S11 was now -107 dB!
>> >
>> >Regards,
>> >Ted KX4OM
>>
>> I just ran the simulation in the LADPAC programs.  I first built the
>> attenuator in Ladbuild, with the resistors rounded off to two decimal
>> places, and saved the result.  In GPLA, I got (after resetting the
>> scale to -120 dB) S11= -107.3.  Then I edited the values to the 3
>> decimal place values from the original attenuator pop-up window of
>> RFSim99, and got S11=-121.67.
>>
>> The circuit review feature of GPLA still showed 2 decimal places,
>> rounded off, but saving that version of the attenuator and opening the
>> saved program in Ladbuild showed three decimal place values when
>> clicking on the component.
>>
>> It's surprising how a couple of thousandths of an ohm can change the S
>> parameters that much.
>>
>> Ted KX4OM


From -7951329323940168853
X-Google-Thread: fc2a5,b90c4a00d51cae34
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!
bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!
bignews2.bellsouth.net.POSTED!ef49a7c3!not-for-mail
From: Ted <kilocycles**@**yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Coax Connectors & Adapters - High Quality@ Low Cost
Message-ID: <cni0h2tvk4o0141nv2k37k6kmg8p8g4urs@4ax.com>
References: <mxWNg.20259$RD.1342@fed1read08> <4508FAB8.1543AE22@earthlink.net>
X-Newsreader: Forte Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 21
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcbopdhdinpobafmnkeplgfobbgplgdghngkok
ompnccapjgkdbfbpeclalcloiihiplemhjjlcmombknkcbkdidkmhhjobnihglchfimjiokchldfjb
NNTP-Posting-Date: Tue, 19 Sep 2006 15:58:15 EDT
Organization: BellSouth Internet Group
Date: Tue, 19 Sep 2006 15:58:26 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:6981

Mike,
Tell us how you *really* feel! ;-) .

I didn't see any BNC bulkhead connectors, which is what I typically
use for price comparisons, since I seem to use so many of them.  I
haven't ordered from this vendor, but I'm tired of having the
insulator melt on some of the ones I've bought for about a buck.



On Thu, 14 Sep 2006 06:46:54 GMT, "Michael A. Terrell"
```

```
<mike.terrell@earthlink.net> wrote:

>AAA RF Products wrote:
>>
>> Please see www.aaarfproducts.com
>
>
>   Its a great site if you want no name connectors and coax so bad that
>radio shack would be ashamed to sell it.  I see that he no longer posts
>his e-mail address in his spam.  He's a foul mouthed pain in the ass.


From -3089509251692202864
X-Google-Thread: fc2a5,6800df57427abd65
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!
bigfeed3.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!
news.bellsouth.net!bignews2.bellsouth.net.POSTED!ef49a7c3!not-for-mail
From: Ted <kilocycles**@**yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Rewinding a rheostat to make it a variable iunductor
Message-ID: <f1j0h2dsmvadaetdnrg926hu22hlcme3kp@4ax.com>
References: <1158494285.997392.51590@k70g2000cwa.googlegroups.com>
X-Newsreader: Forte Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 14
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
ogjnolidcdijhjikdbdpiflmbcekedmfhojhikkbagflhcboikcgheckkhfnabhhlgfobbgplgdghngkok
ompnccapjgkdbfbpeclalcloiihiplemhjjlcmombknkcbadcoghncpbddighbafglmkdbpcfidnol
NNTP-Posting-Date: Tue, 19 Sep 2006 16:03:25 EDT
Organization: BellSouth Internet Group
Date: Tue, 19 Sep 2006 16:03:36 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:6982

Hmmm...not a bad idea.  I have no use for a Miracle Whip antenna, but
I think I'll try that approach as another alternative to Phil Salas,
AD5X's portable vertical base matching techniques.  It might even be
feasible for the tuneable component of a center loading coil.  I'm
gonna do some experimentin'!

73,
On 17 Sep 2006 04:58:06 -0700, dselwa@gmail.com wrote:

>I came up with this idea to make a tiny antenna tuner. Thought maybe I
>could remove the wire on a rheostat and rewind it with copper wire so I
>can make a long wire antenna tuner .
>
```

>Dennis W6EH

From -1286866051902288144
X-Google-Thread: fc2a5,9520844e5f23670f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!
newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-02!sn-xt-sjc-01!sn-post-sjc-01!
supernews.com!corp.supernews.com!not-for-mail
From: Chris Jones <lugnut808@nospam.yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Intermediate Frequency
Date: Wed, 20 Sep 2006 00:18:02 +0100
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12h0r1eghq3sje8@corp.supernews.com>
References: <1157660239.048126.59500@e3g2000cwe.googlegroups.com>
User-Agent: KNode/0.7.7
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
X-Complaints-To: abuse@supernews.com
Lines: 34
Xref: g2news2.google.com rec.radio.amateur.homebrew:6983

radio_rookie wrote:

> Hello,
> I want to know the importance of intermediate frequency in any
> receivers. IF was used in Superhet transceivers. My question is why
> doesn't anyone use zero IF now a days. What is the problem of brining
> the RF signal directly to baseband? Does the IF stage conditions the
> incoming signal? What are the advantages of the IF stage?
>
> Just confused. Can anyone throw some light on this?
>
> Thanks.

Direct conversion is used in nearly all modern mobile phones, because it is cheaper (no IF filters), and because the baseband amplifiers use less current than the old IF amplifiers used to. The RF performance is not necessarily as good as a well designed superhet.

It is difficult to make the receiver immune to "AM detection" which is a problem caused by receiving a strong interfering signal with amplitude modulation on it, at a frequency other than the one that you are trying to receive, but which somehow gets turned into a baseband frequency signal coming out of the mixer, even though it shouldn't. There are plenty of reasons why this can happen, such as second-order nonlinearity in the mixer, meaning that a strong interferer coming into the RF port of the receiver can mix with itself in your mixer and end up on top of the wanted signal. Another cause could be if there is coupling between the LO generation circuit and the RF input (in either direction, both are bad.)

Also it is common to get large DC offsets coming out of direct conversion receivers, and for some modulation formats where you're interested in frequencies down to DC, that can be a pain. People have pretty much solved these problems in phones, after a lot of work.

Chris

From 7784058420537444331
X-Google-Thread: fc2a5,cc968d9642484def
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!news.glorb.com!sn-xt-sjc-04!sn-xt-sjc-07!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: safemale <safemale@earthlink.cum>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARC-5 Tuning Shaft Adapters
Date: Tue, 19 Sep 2006 23:05:38 -0400
Organization: safe males are best
Message-ID: <pqb1h216hhtgf7h5n7fq4984rn26luq482@4ax.com>
Reply-To: safemale#@myvine.com
References: <1158638582.419376.97510@k70g2000cwa.googlegroups.com>
X-Newsreader: Forte Agent 4.0/32.1071
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 26
Xref: g2news2.google.com rec.radio.amateur.homebrew:6984

you mite be about 50 years late
good luck
seel a used arc5 recver on ebay
ken uhrick
On 18 Sep 2006 21:03:02 -0700, "LenAnderson@ieee.org"
<LenAnderson@ieee.org> wrote:

>Does anyone have or can they direct me to a couple of "splined"
>tuning shaft adapters that fit the ARC-5 Command Set receivers?
>I'd like to adapt some of the ganged variable capacitors from
>those sets into some homebuilt equipment...lovely antibacklash
>gear reduction on them.
>
>Been trying to search the 'web (at the usual suspects such as
>Fair Radio, Toronto Sales, etc.) but no joy. Yes, I know that
>some consumer radio plastic knobs will fit, but those also
>break very easy making the MTBFs very low indeed.
>
>I would suppose that there is a mechanical description for the
>splines and diameters but, alas, I ain't one of those. I've a feeling
>that several mechanical hardware suppliers have them in stock.
>

```
>Will appreciate any info, will trade assorted items for a couple of
>metal adapters to metal shafts.
>
>LenAnderson@ieee.org


From -7155259560998535259
X-Google-Thread: fc2a5,cc968d9642484def
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-
mail
From: "Andrew VK3BFA" <ablight@alphalink.com.au>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARC-5 Tuning Shaft Adapters
Date: 20 Sep 2006 02:32:08 -0700
Organization: http://groups.google.com
Lines: 16
Message-ID: <1158744728.499428.47000@k70g2000cwa.googlegroups.com>
References: <1158638582.419376.97510@k70g2000cwa.googlegroups.com>
NNTP-Posting-Host: 218.214.132.16
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158744733 25533 127.0.0.1 (20 Sep 2006 09:32:13 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 20 Sep 2006 09:32:13 +0000 (UTC)
In-Reply-To: <1158638582.419376.97510@k70g2000cwa.googlegroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.12) Gecko/20050915
Firefox/1.0.7,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=218.214.132.16;
   posting-account=EWANPAwAAAAIMf8u_DoGHaMCx0gCEW5D
Xref: g2news2.google.com rec.radio.amateur.homebrew:6985


LenAnderson@ieee.org wrote:
> Does anyone have or can they direct me to a couple of "splined"
> tuning shaft adapters that fit the ARC-5 Command Set receivers?
> I'd like to adapt some of the ganged variable capacitors from
> those sets into some homebuilt equipment...lovely antibacklash
> gear reduction on them.


Hi Len,
nope - rare as rocking horse manure. I machined ones from brass rod -
receiver end, a press fit on the splines, other end, quarter inch for
knob.

Andrew VK3BFA.
```

From -7241295206755374237
X-Google-Thread: fc2a5,9fb7b5f9b57b3816,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!24.30.200.11!news-east.rr.com!news-wrt-01.southeast.rr.com!news-wrt-01.tampabay.rr.com!news-feed-01.tampabay.rr.com!news.rr.com!news-post.tampabay.rr.com!tornado.tampabay.rr.com.POSTED!53ab2750!not-for-mail
From: Jim Flanagan <jflan@tampabay.rr.com>
User-Agent: Thunderbird 1.5.0.5 (Windows/20060719)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: 'Stripping' Enamel Wire.
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 17
Message-ID: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
Date: Wed, 20 Sep 2006 11:38:06 GMT
NNTP-Posting-Host: 72.185.114.46
X-Complaints-To: abuse@rr.com
X-Trace: tornado.tampabay.rr.com 1158752286 72.185.114.46 (Wed, 20 Sep 2006 07:38:06 EDT)
NNTP-Posting-Date: Wed, 20 Sep 2006 07:38:06 EDT
Organization: Road Runner High Speed Online http://www.rr.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:6986

Guys..
Does anyone have any better method for stripping small, enameled wire, other than using sandpaper or an exacto knife (scrapping)? There used to be a chemical stripper called 'Xvar', years ago. This stuff worked great. Nasty stuff as you can imagine and has been EPA'd years ago. Is there anything comparable, today?

Also, a retired technician that I once knew had a pair of ingenious 'stripper pliers' that he had acquired back in the '60s that did a fabulous job. These pliers had special jaws that would scrape the enamel off without nicking the wire. They worked GREAT. Supposedly, this tool originated from a mfg in Germany. I have never seen this tool since. Anyone have a lead on something similar?

Thanks and take care.
-jim
WB5KYE

From -3339328732178437520
X-Google-Thread: fc2a5,9fb7b5f9b57b3816
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!elnk-atl-nf1!newsfeed.earthlink.net!atl-c08.usenetserver.com!

```
news.usenetserver.com!pc02.usenetserver.com!FUSE.NET-a2kHrUvQQWlmc!not-for-mail
Message-ID: <451139CD.9000300@fuse.net>
Date: Wed, 20 Sep 2006 08:53:33 -0400
From: jawod <jawod@fuse.net>
User-Agent: Mozilla Thunderbird 1.0.2 (Macintosh/20050317)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 'Stripping' Enamel Wire.
References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
In-Reply-To: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@usenetserver.com
Organization: UseNetServer.com
Lines: 25
X-Trace: 2bccf45113a3eed94689c26785
Xref: g2news2.google.com rec.radio.amateur.homebrew:6987

Jim Flanagan wrote:
> Guys..
>   Does anyone have any better method for stripping small, enameled
> wire, other than using sandpaper or an exacto knife (scrapping)?
> There used to be a chemical stripper called 'Xvar', years ago.
> This stuff worked great.  Nasty stuff as you can imagine and has
> been EPA'd years ago.  Is there anything comparable, today?
>
> Also, a retired technician that I once knew had a pair of ingenious
> 'stripper pliers' that he had acquired back in the '60s that did
> a fabulous job.  These pliers had special jaws that would scrape the
> enamel off without nicking the wire.  They worked GREAT.  Supposedly,
> this tool originated from a mfg in Germany.  I have never seen this tool
> since.  Anyone have a lead on something similar?
>
> Thanks and take care.
> -jim
> WB5KYE
I've heard about that tool, also.  My only experience with enameled wire
is melting/burning it off, then sanding off the little remaining crud.

I know, probably "Been there, Done that".

John
AB8O


From 8757341165630987127
X-Google-Thread: fc2a5,9fb7b5f9b57b3816
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-
mail
From: "Telstar Electronics" <briangriffey@sbcglobal.net>
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 'Stripping' Enamel Wire.
Date: 20 Sep 2006 10:26:16 -0700
Organization: http://groups.google.com
Lines: 24
Message-ID: <1158773176.250834.257790@e3g2000cwe.googlegroups.com>
References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
NNTP-Posting-Host: 216.203.30.4
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158773181 2648 127.0.0.1 (20 Sep 2006 17:26:21 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 20 Sep 2006 17:26:21 +0000 (UTC)
In-Reply-To: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322; InfoPath.1),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=216.203.30.4;
   posting-account=eoghzw0AAACGs5GNlxOe2ZOOp7mFNdYD
Xref: g2news2.google.com rec.radio.amateur.homebrew:6988

Jim Flanagan wrote:
> Guys..
>    Does anyone have any better method for stripping small, enameled
> wire, other than using sandpaper or an exacto knife (scrapping)?
> There used to be a chemical stripper called 'Xvar', years ago.
> This stuff worked great.  Nasty stuff as you can imagine and has
> been EPA'd years ago.  Is there anything comparable, today?
>
> Also, a retired technician that I once knew had a pair of ingenious
> 'stripper pliers' that he had acquired back in the '60s that did
> a fabulous job.  These pliers had special jaws that would scrape the
> enamel off without nicking the wire.  They worked GREAT.  Supposedly,
> this tool originated from a mfg in Germany.  I have never seen this tool
> since.  Anyone have a lead on something similar?
>
> Thanks and take care.
> -jim
> WB5KYE

These work great, but maybe a bit pricey for your needs...
http://www.eraser.com/catpdf.cgi/Magnet.pdf?mode=download&catpdf_id=11

www.telstar-electronics.com



From 435332732245736296
X-Google-Thread: fc2a5,9fb7b5f9b57b3816
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!newsfeed.stanford.edu!
```

headwall.stanford.edu!newshub.sdsu.edu!tethys.csu.net!nntp.csufresno.edu!sn-xt-sjc-02!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: Roy Lewallen <w7el@eznec.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 'Stripping' Enamel Wire.
Date: Wed, 20 Sep 2006 10:37:53 -0700
Organization: EZNEC Antenna Software
Message-ID: <12h2v3ie5b8mqe8@corp.supernews.com>
User-Agent: Thunderbird 1.5.0.7 (Windows/20060909)
MIME-Version: 1.0
References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
In-Reply-To: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 34
Xref: g2news2.google.com rec.radio.amateur.homebrew:6989

For a long time, I've used heat-strippable wire which I got surplus. It can be stripped just by heating at 750-800 degrees for a minute or so with a soldering iron. The trade name, I believe, is "Solder-eze", but a web search doesn't reveal a ready source. (I did find a number of people asking where it could be found, but no responses.) Hopefully a reader knows of a source and can tell us. A nice summary of various ways to strip heat-strippable wire is at http://www.ac6rm.net/mailarchive/html/elecraft-list/2005-10/msg00598.html.

While searching for information on heat-strippable wire, I came across the suggestion for stripping conventional enameled wire with paint stripper. Apparently it takes a few minutes, but does work. It's nasty stuff to work with, though.

Roy Lewallen, W7EL

Jim Flanagan wrote:
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> wire, other than using sandpaper or an exacto knife (scrapping)?
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> This stuff worked great. Nasty stuff as you can imagine and has
> been EPA'd years ago. Is there anything comparable, today?
>
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> 'stripper pliers' that he had acquired back in the '60s that did
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> this tool originated from a mfg in Germany. I have never seen this tool
> since. Anyone have a lead on something similar?
>
> Thanks and take care.
> -jim
> WB5KYE

```
From 9140477405446898353
X-Google-Thread: fc2a5,cc968d9642484def
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!b28g2000cwb.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARC-5 Tuning Shaft Adapters
Date: 20 Sep 2006 10:55:50 -0700
Organization: http://groups.google.com
Lines: 45
Message-ID: <1158774950.297816.34630@b28g2000cwb.googlegroups.com>
References: <1158638582.419376.97510@k70g2000cwa.googlegroups.com>
   <1158744728.499428.47000@k70g2000cwa.googlegroups.com>
NNTP-Posting-Host: 207.200.116.72
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158774955 8924 127.0.0.1 (20 Sep 2006 17:55:55 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 20 Sep 2006 17:55:55 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1;
SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.1 spider-
ntc-td09.proxy.aol.com[CFC871AA] (Prism/1.1.3), HTTP/1.1 cache-ntc-
ab08.proxy.aol.com[CFC87448] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: b28g2000cwb.googlegroups.com; posting-host=207.200.116.72;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:6991
```

Andrew VK3BFA wrote:
> LenAnderson@ieee.org wrote:
> > Does anyone have or can they direct me to a couple of "splined"
> > tuning shaft adapters that fit the ARC-5 Command Set receivers?
> > I'd like to adapt some of the ganged variable capacitors from
> > those sets into some homebuilt equipment...lovely antibacklash
> > gear reduction on them.
>
> Hi Len,
> nope - rare as rocking horse manure. I machined ones from brass rod -
> receiver end, a press fit on the splines, other end, quarter inch for
> knob.
>
> Andrew VK3BFA.

Thanks, Andrew...I got that impression after several hours of web
surfing. :-)   :-(

My 1948-acquired Command Set surplus stock has slowly
withered away ($6 for receivers, $12 for transmitters, $18 for

antenna tuning unit-modulator-Tx dynamotor at that time).
I'd gotten 4 of the tuning "knob" adapters back then, 2 got
traded-sold, 1 remains on a 6-9 MHz receiver, and 1 is lost
somewhere unknown.

Beautiful anti-backlash worm drive on those ganged capacitors.
Would be good for tuning anything.

Not being a machinist I was hoping someone would come up
with the correct words to describe the splined whatsis so that
I could haunt a few mechanical parts suppliers for something
that would mate smoothly with it. I tried some copper tubing
(pressed over splines) with marginal success (several
diameters, easy to get at do-it-yourself stores for various
small water piping uses) but those bend rather easily. [it's not
too swift when one's home machine shop consists of a Big Lots
table top drill press...:-)]

I did come across a Magnificent website with Great pictures of
WW2 radio equipment in US military aviation: http://aafradio.org
Now there is a Collector! [and a consultant at the Smithsonian
Air and Space Museum]

LenAnderson@ieee.org

From 6127239522038995468
X-Google-Thread: fc2a5,9fb7b5f9b57b3816
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!h48g2000cwc.googlegroups.com!not-for-mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 'Stripping' Enamel Wire.
Date: 20 Sep 2006 11:10:04 -0700
Organization: http://groups.google.com
Lines: 53
Message-ID: <1158775804.834335.33300@h48g2000cwc.googlegroups.com>
References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
<12h2v3ie5b8mqe8@corp.supernews.com>
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Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158775810 9585 127.0.0.1 (20 Sep 2006 18:10:10 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 20 Sep 2006 18:10:10 +0000 (UTC)
In-Reply-To: <12h2v3ie5b8mqe8@corp.supernews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; AOL 9.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s]), HTTP/1.0 spider-

ntc-td09.proxy.aol.com[CFC871AA] (Prism/1.1.3), HTTP/1.1 cache-ntc-ab08.proxy.aol.com[CFC87448] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: h48g2000cwc.googlegroups.com; posting-host=207.200.116.72;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:6992

Roy Lewallen wrote:
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> can be stripped just by heating at 750-800 degrees for a minute or so
> with a soldering iron. The trade name, I believe, is "Solder-eze", but a
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> knows of a source and can tell us. A nice summary of various ways to
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> http://www.ac6rm.net/mailarchive/html/elecraft-list/2005-10/msg00598.html.
>
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> stripper. Apparently it takes a few minutes, but does work. It's nasty
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>
> Roy Lewallen, W7EL
>
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> > There used to be a chemical stripper called 'Xvar', years ago.
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> >
> > Also, a retired technician that I once knew had a pair of ingenious
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> > a fabulous job. These pliers had special jaws that would scrape the
> > enamel off without nicking the wire. They worked GREAT. Supposedly,
> > this tool originated from a mfg in Germany. I have never seen this tool
> > since. Anyone have a lead on something similar?
> >
> > Thanks and take care.
> > -jim
> > WB5KYE

I mentioned a commercial paint-stripper in here, have tried another brand. Wayyyy slow. Having used commercial paint strippers in days before EPA had declared nearly everything "toxic, harmful to health" those paint stripper compounds were a lot stronger. It works, sort of, but one can use up a half roll of paper towels to make a dozen-plus toroid inductors' end-stripping. [okay, some exaggeration there]   It is messy and usually takes a second application of goo to clean it off good enough for soldering.

GONE is good old General Cement "Strip-X" (company says it has no plans for anything similar in future) and the "Solder-Eze" is relegated to "old stock." Since "magnet wire" is still used in industry, hobbyists need a hint or three from those working in that area now.

LenAnderson@ieee.org

```
From 7952856786223171267
X-Google-Thread: fc2a5,19e6704e294e661f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!k70g2000cwa.googlegroups.com!not-for-
mail
From: "LenAnderson@ieee.org" <LenAnderson@ieee.org>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Recommended Method for PCB mounting of Toroidal Coils
Date: 20 Sep 2006 11:21:27 -0700
Organization: http://groups.google.com
Lines: 27
Message-ID: <1158776485.810631.41010@k70g2000cwa.googlegroups.com>
References: <oMEPg.20$%y3.6@tornado.tampabay.rr.com>
NNTP-Posting-Host: 207.200.116.72
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158776491 11330 127.0.0.1 (20 Sep 2006 18:21:31 GMT)
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SV1; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
X-HTTP-Via: HTTP/1.1 (Velocity/1.3.32 [uScMs f p eN:t cCMp s ]), HTTP/1.0 spider-
ntc-td09.proxy.aol.com[CFC871AA] (Prism/1.1.3), HTTP/1.1 cache-ntc-
ab08.proxy.aol.com[CFC87448] (Traffic-Server/6.1.2 [uScM])
Complaints-To: groups-abuse@google.com
Injection-Info: k70g2000cwa.googlegroups.com; posting-host=207.200.116.72;
   posting-account=B-meew0AAAC92cncI-9uzS6wDORD-xwy
Xref: g2news2.google.com rec.radio.amateur.homebrew:6993
```

Jim Flanagan wrote:

> Hi..
> In the past, I've always mounted my coils vertically but
> this time around, I need to mount some horizontally. I was
> simply going to glue them to the pcb but wanted first to get
> input as to other home brewer's method of mounting toroids to
> a pcb. The toroids will be FT-37-43 type wide band transformers
> in the 10MHz range. Your input is welcome. Take care.
>
> -jim
> WB5KYE

With FT-37-43 toroidal cores, the outer diameter of the form
is 3/8 inch, right?

There should be very little change in inductance by simply
gluing that small an inductor to a non-conductive spacer
at least 1/8 inch thick...such as most any plastic material.
I've used two-part epoxy from the hardware store, a silicone
RTV goopy stuff (from same store), even my wife's glue
gun for craft work (lots of TLC involved in such persuasion),
all worked well. I'd judge that the two-part epoxy would be
the most long-lasting on fiberglass-epoxy substrate boards.

LenAnderson@ieee.org

From -6893410138256547648
X-Google-Thread: fc2a5,3df795baa7767d1c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!news-out.readnews.com!news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Bluetooth Headset w/Ham HT - is it possible?
Date: Wed, 20 Sep 2006 18:30:02 +0000 (UTC)
Organization: MGT Consulting
Lines: 23
Message-ID: <slrneh322o.rn7.gsm@cable.mendelson.com>
References: <7ov2h293kql33cj5ukcrn4ljj9cs9i9r0n@4ax.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: dsl217-132-43-61.bb.netvision.net.il
X-Trace: marvin.misty.com 1158777002 16545 217.132.43.61 (20 Sep 2006 18:30:02 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Wed, 20 Sep 2006 18:30:02 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:6994

Jim wrote:
> Anyone know if there is any articles on adapting a BLUETOOTH headset
> as used with cellphones for use with an Amateur HT? It would be nice
> to adapt one of the motorcycle Bluetooth helmet headsets to work with
> an amateur HT while cycling. I'm sure it's been done before, and if
> anyone knows of a source of info it would be appreciated.

It would be fairly difficult to do it on it's own. Using a pocket PC or
some similar device, you could do it easily. The problem is finding a
device that could do it that would not cost more than the HT.

Basicly what you need is some sort of system that accepts connections
from bluetooth devices and plays the digital sound to a digital to
analog converter. Since a pocket PC has the bluetooth and a "sound card",

it would be simple under Linux. It might be simple under WINCE, but
I only know about building handheld Linux devices.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
IL Voice: (07)-7424-1667 Fax ONLY: 972-2-648-1443 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/

From -8771870210339894782
X-Google-Thread: fc2a5,9fb7b5f9b57b3816
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!sn-xt-sjc-04!sn-xt-sjc-07!sn-post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 'Stripping' Enamel Wire.
Date: Wed, 20 Sep 2006 19:05:51 -0000
Organization: Home for Obscure Mythical Beings
Message-ID: <12h348fq0doab58@corp.supernews.com>
References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
X-Complaints-To: abuse@supernews.com
Lines: 22
Xref: g2news2.google.com rec.radio.amateur.homebrew:6995

>Guys..
>   Does anyone have any better method for stripping small, enameled
>wire, other than using sandpaper or an exacto knife (scrapping)?
>There used to be a chemical stripper called 'Xvar', years ago.
>This stuff worked great. Nasty stuff as you can imagine and has
>been EPA'd years ago. Is there anything comparable, today?

Depending on your location you _might_ still be able to buy a quantity
of MEK (methyl ethyl ketone) at a paint or hardware store. This is a
strong and effective stripper for many insulations, and may very well
have been the primary ingredient in the Xvar stripper you mention. As
you say, it's bog-nasty stuff, and should be used with serious caution.

Some people just flame the end of the wire briefly - long enough to
scorch the insulation but not long enough to oxidize the wire. It
makes scraping off the insulation much easier... but takes practice.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Hosting the Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From -7366825856700574967
X-Google-Thread: fc2a5,3df795baa7767d1c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!news2.volia.net!news.musoftware.de!w3bhost.de!feed.xsnews.nl!feeder.xsnews.nl!newsrouter-eu.astraweb.com!news.astraweb.com!router1.astraweb.com!sn-xt-sjc-05!sn-xt-sjc-08!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Bluetooth Headset w/Ham HT - is it possible?
Date: Wed, 20 Sep 2006 12:08:11 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12h34cs4glc0re7@corp.supernews.com>
References: <7ov2h293kql33cj5ukcrn4ljj9cs9i9r0n@4ax.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 14
Xref: g2news2.google.com rec.radio.amateur.homebrew:6996

"Jim" <wdxp@cox.net> wrote in message
news:7ov2h293kql33cj5ukcrn4ljj9cs9i9r0n@4ax.com...
> Anyone know if there is any articles on adapting a BLUETOOTH headset
> as used with cellphones for use with an Amateur HT?

Not marketed as such, but there *are* Bluetooth adapters out there for devices that use "standard" headphones and microphones, such as cell phones (e.g., http://www.amazon.com/Jabra-A210-Bluetooth-Adapter-2-5-Universal-Headset-Jack/dp/B0006HES2I/sr=8-1/qid=1158779198).
Adapting that to an HT is, I expect, no more than perhaps a bit of level matching an connectorization.

---Joel Kolstad

From -7944062915825418206
X-Google-Thread: fc2a5,9fb7b5f9b57b3816
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!sn-xt-sjc-05!sn-xt-sjc-10!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: dplatt@radagast.org (Dave Platt)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 'Stripping' Enamel Wire.
Date: Wed, 20 Sep 2006 19:08:56 -0000
Organization: Home for Obscure Mythical Beings

Message-ID: <12h34e8isnso813@corp.supernews.com>
References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
<12h2v3ie5b8mqe8@corp.supernews.com>
X-Newsreader: trn 4.0-test74 (May 26, 2000)
Originator: dplatt@radagast.org (Dave Platt)
X-Complaints-To: abuse@supernews.com
Lines: 21
Xref: g2news2.google.com rec.radio.amateur.homebrew:6997

In article <12h2v3ie5b8mqe8@corp.supernews.com>,
Roy Lewallen <w7el@eznec.com> wrote:

>For a long time, I've used heat-strippable wire which I got surplus. It
>can be stripped just by heating at 750-800 degrees for a minute or so
>with a soldering iron. The trade name, I believe, is "Solder-eze", but a
>web search doesn't reveal a ready source. (I did find a number of people
>asking where it could be found, but no responses.)

Another variety of this is Belden "Beldsol", which seems to be widely
available... Mouser, Newark, RS Electronics list it.

And, an eBay search on "solderable magnet wire" will probably turn up
some supplies of this sort of wire.

--
Dave Platt <dplatt@radagast.org>   AE6EO
Hosting the Jade Warrior home page: http://www.radagast.org/jade-warrior
  I do _not_ wish to receive unsolicited commercial email, and I will
     boycott any company which has the gall to send me such ads!

From 4278971703045943225
X-Google-Thread: fc2a5,9fb7b5f9b57b3816
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!sn-xt-sjc-03!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 'Stripping' Enamel Wire.
Date: Wed, 20 Sep 2006 12:16:05 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12h34rmq7ns9jc4@corp.supernews.com>
References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
<12h2v3ie5b8mqe8@corp.supernews.com>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
X-Complaints-To: abuse@supernews.com
Lines: 17

Xref: g2news2.google.com rec.radio.amateur.homebrew:6998

Roy,

"Roy Lewallen" <w7el@eznec.com> wrote in message
news:12h2v3ie5b8mqe8@corp.supernews.com...
> Hopefully a reader knows of a source and can tell us.

I've purchased some from RoadRunner in the past:
http://www.rrunner.co.uk/wire/qse.htm ... probably not particularly
cost-effective, being overseas, but if you only need small quantities it's OK.
Another UK company, Vero, has it as well:
http://www.verotl.com/products/index.cfm?content_id=7846BCBE-F067-441A-9F53A51D8E4CC6B3 -
- never dealth with them personally.

---Joel

From 1849220215900823621
X-Google-Thread: fc2a5,cc968d9642484def
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.pipex.net!news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 20 Sep 2006 14:49:50 -0500
Date: Wed, 20 Sep 2006 20:50:09 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.7) Gecko/20060910 SeaMonkey/1.0.5
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: ARC-5 Tuning Shaft Adapters
References: <1158638582.419376.97510@k70g2000cwa.googlegroups.com>
<1158744728.499428.47000@k70g2000cwa.googlegroups.com>
<1158774950.297816.34630@b28g2000cwb.googlegroups.com>
In-Reply-To: <1158774950.297816.34630@b28g2000cwb.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <oK2dneao4uTDBozYnZ2dnUVZ8qSdnZ2d@pipex.net>
Lines: 38
NNTP-Posting-Host: 81.178.254.145
X-Trace: sv3-VAQ8O2vFqwhSFudtslAFQsNu9aK01boadKLD37sH17CIfAyvxWF183/ofLaqgm0+oYDRYq67KOCr3sx!QXO4BqMPaXOsI3zHIXd8oBA7mReNntNh1vT0cg4r1rUjKpA8EmGNasapslABZLg4x+T4McWR8b16!0+yEMpGC9TtaW+IeG391lgdDOfI=
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers

X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:6999

Len Anderson wrote :
> Not being a machinist I was hoping someone would come up
> with the correct words to describe the splined whatsis so that
> I could haunt a few mechanical parts suppliers for something
> that would mate smoothly with it. I tried some copper tubing
> (pressed over splines) with marginal success (several
> diameters, easy to get at do-it-yourself stores for various
> small water piping uses) but those bend rather easily. [it's not
> too swift when one's home machine shop consists of a Big Lots
> table top drill press...:-)]

============================
Not knowing the equipment being discussed ,I could suggest the following general method of extending a 6 -6.35 mm shaft . (6.35mm equals 1/4 inch)

Take 2 (if possible identical) non metallic knobs for the shaft diameter concerned ,for example the push-on potmeter knobs found on almost any VDU or older TV and BC radio sets , used to push onto splined potmeters . Equipment from Asian origin is always metric ,hence shafts dias are 6 mm . Fit the 2 knobs concentrically piggy back ,with either epoxy or 2 or 3 bolts /nuts either metallic or non-metallic (say nylon).

Push/fix 1 knob onto the splined shaft to be extended.
Fit tubular/solid extension shaft into other side.

If alignment with front panel opening is a problem , glue flexible material (for example rubber ,dense foam or expanded polystyrene)in between the 2 knobs . Of course all this provided there is enough space in the enclosure.

This method is also very suitable for applications involving components with a rotary shaft which should be kept free from ground ,like in antenna matching units (tuners) .

If the to be driven shaft has a 1/4 inch diameter the mating knob must suit this ,but the other knob can be for a 6mm dia shaft and final front panel knob There is a lot of flexibility.

Frank GM0CSZ / KN6WH

From -2556150516231007411
X-Google-Thread: fc2a5,cc968d9642484def
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s71.POSTED!53ab2750!not-for-mail
From: "Harold E. Johnson" <W4ZCB@mchsi.com>

Newsgroups: rec.radio.amateur.homebrew
References: <1158638582.419376.97510@k70g2000cwa.googlegroups.com>
<1158744728.499428.47000@k70g2000cwa.googlegroups.com>
<1158774950.297816.34630@b28g2000cwb.googlegroups.com>
<oK2dneao4uTDBozYnZ2dnUVZ8qSdnZ2d@pipex.net>
Subject: Re: ARC-5 Tuning Shaft Adapters
Lines: 21
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2180
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
Message-ID: <WJhQg.153293$FQ1.12695@attbi_s71>
NNTP-Posting-Host: 12.215.38.98
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s71 1158785014 12.215.38.98 (Wed, 20 Sep 2006 20:43:34 GMT)
NNTP-Posting-Date: Wed, 20 Sep 2006 20:43:34 GMT
Organization: AT&T ASP.att.net
Date: Wed, 20 Sep 2006 20:43:34 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:7000

> Len Anderson wrote :
>>   Not being a machinist I was hoping someone would come up
>>   with the correct words to describe the splined whatsis so that
>>   I could haunt a few mechanical parts suppliers for something
>>   that would mate smoothly with it. I tried some copper tubing
>>   (pressed over splines) with marginal success (several
>>   diameters, easy to get at do-it-yourself stores for various
>>   small water piping uses) but those bend rather easily. [it's not
>>   too swift when one's home machine shop consists of a Big Lots
>>   table top drill press...:-)]

Len, today is your lucky day. I have ONE splined whatsis, the tuning knob
that was included in every maintenance kit for the BCxxx series. Steel with
a heavily knurled 1/2 inch knob.

Send me your snail mail address, pretty sure I'm not going to be using it.

W4ZCB

From -3991219128688972765
X-Google-Thread: fc2a5,3df795baa7767d1c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news-out.readnews.com!
news-xxxfer.readnews.com!news.misty.com!not-for-mail
From: gsm@mendelson.com (Geoffrey S. Mendelson)
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Bluetooth Headset w/Ham HT - is it possible?

Date: Wed, 20 Sep 2006 20:51:02 +0000 (UTC)
Organization: MGT Consulting
Lines: 15
Message-ID: <slrneh3aai.39n.gsm@cable.mendelson.com>
References: <7ov2h293kql33cj5ukcrn4ljj9cs9i9r0n@4ax.com>
<12h34cs4glc0re7@corp.supernews.com>
Reply-To: gsm@mendelson.com
NNTP-Posting-Host: dsl217-132-43-61.bb.netvision.net.il
X-Trace: marvin.misty.com 1158785462 29304 217.132.43.61 (20 Sep 2006 20:51:02 GMT)
X-Complaints-To: abuse@misty.com
NNTP-Posting-Date: Wed, 20 Sep 2006 20:51:02 +0000 (UTC)
User-Agent: slrn/0.9.7.1 (Linux)
Xref: g2news2.google.com rec.radio.amateur.homebrew:7001

Joel Kolstad wrote:
> Not marketed as such, but there *are* Bluetooth adapters out there for devices
> that use "standard" headphones and microphones, such as cell phones (e.g.,
> http://www.amazon.com/Jabra-A210-Bluetooth-Adapter-2-5-Universal-Headset-Jack/dp/B0006HES2I/sr=8-1/qid=1158779198).
> Adapting that to an HT is, I expect, no more than perhaps a bit of level
> matching an connectorization.

Only if the HT has a VOX function.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM
IL Voice: (07)-7424-1667 Fax ONLY: 972-2-648-1443 U.S. Voice: 1-215-821-1838
Visit my 'blog at http://geoffstechno.livejournal.com/

From 2766208363243235590
X-Google-Thread: fc2a5,9fb7b5f9b57b3816
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 20 Sep 2006 16:20:07 -0500
From: Dan Andersson <dan@andersson.co.uk>
Subject: Re: 'Stripping' Enamel Wire.
Newsgroups: rec.radio.amateur.homebrew
Date: Wed, 20 Sep 2006 22:20:04 +0100
References: <yK9Qg.1384$K02.6@tornado.tampabay.rr.com>
<12h2v3ie5b8mqe8@corp.supernews.com>
<1158775804.834335.33300@h48g2000cwc.googlegroups.com>
Organization: @Home
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit

Message-ID: <8e-dnYP_HZgaLYzYRVnyiw@eclipse.net.uk>
Lines: 77
NNTP-Posting-Host: 83.100.138.236
X-Trace: sv3-raSGQGnlZzYJvd0wpNA8tvQf4NuWCvevRp+nuWB2w54HtOVj2vmX/
ctkO7YnhnnV0vrX1+SJiNS5mnf!
BaIntdW8JNboHKaUp5OWxHfAMG1GdW0z9lcOL0SCm658ZN3farycsGEXfGhrjTNKsY+u5yRQxZ3b!
nOgVqGPP
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7002

LenAnderson@ieee.org wrote:

> Roy Lewallen wrote:
>> For a long time, I've used heat-strippable wire which I got surplus. It
>> can be stripped just by heating at 750-800 degrees for a minute or so
>> with a soldering iron. The trade name, I believe, is "Solder-eze", but a
>> web search doesn't reveal a ready source. (I did find a number of people
>> asking where it could be found, but no responses.) Hopefully a reader
>> knows of a source and can tell us. A nice summary of various ways to
>> strip heat-strippable wire is at
>>
http://www.ac6rm.net/mailarchive/html/elecraft-list/2005-10/msg00598.html.
>>
>> While searching for information on heat-strippable wire, I came across
>> the suggestion for stripping conventional enameled wire with paint
>> stripper. Apparently it takes a few minutes, but does work. It's nasty
>> stuff to work with, though.
>>
>> Roy Lewallen, W7EL
>>
>> Jim Flanagan wrote:
>> > Guys..
>> >   Does anyone have any better method for stripping small, enameled
>> > wire, other than using sandpaper or an exacto knife (scrapping)?
>> > There used to be a chemical stripper called 'Xvar', years ago.
>> > This stuff worked great. Nasty stuff as you can imagine and has
>> > been EPA'd years ago. Is there anything comparable, today?
>> >
>> > Also, a retired technician that I once knew had a pair of ingenious
>> > 'stripper pliers' that he had acquired back in the '60s that did
>> > a fabulous job. These pliers had special jaws that would scrape the
>> > enamel off without nicking the wire. They worked GREAT. Supposedly,
>> > this tool originated from a mfg in Germany. I have never seen this
>> > tool
>> > since. Anyone have a lead on something similar?
>> >
>> > Thanks and take care.
>> > -jim

>> > WB5KYE
>
> I mentioned a commercial paint-stripper in here, have tried another brand. Wayyyy slow. Having used commercial paint strippers in days before EPA had declared nearly everything "toxic, harmful to health" those paint stripper compounds were a lot stronger. It works, sort of, but one can use up a half roll of paper towels to make a dozen-plus toroid inductors' end-stripping. [okay, some exaggeration there] It is messy and usually takes a second application of goo to clean it off good enough for soldering.
>
> GONE is good old General Cement "Strip-X" (company says it has no plans for anything similar in future) and the "Solder-Eze" is relegated to "old stock." Since "magnet wire" is still used in industry, hobbyists need a hint or three from those working in that area now.
>
> LenAnderson@ieee.org

Years ago, working with "Litz wire", I used Red Spirit and a small burner or a small blow torch. We dipped the wire in the spirit and then burned it.

I'm not entirely sure if the Litz wires we used had secondary lacquer isolation but I think so and that was the major pain with that wire.

A quick heating up and a swipe with a cloth should do it. Red Spirit was originally almost clean Ethanol (While doing my military service in the Signal Corps ages ago, we used to nick it and mix it with coke or tonic water on Friday evenings...)

Cheers

Dan / M0DFI

dan.andersson@ieee.org

From -7748924947781960239
X-Google-Thread: fc2a5,3df795baa7767d1c
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!local01.nntp.dca.giganews.com!nntp.eclipse.net.uk!news.eclipse.net.uk.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 20 Sep 2006 16:26:00 -0500
From: Dan Andersson <dan@andersson.co.uk>
Subject: Re: Bluetooth Headset w/Ham HT - is it possible?
Newsgroups: rec.radio.amateur.homebrew
Date: Wed, 20 Sep 2006 22:25:57 +0100

References: <7ov2h293kql33cj5ukcrn4ljj9cs9i9r0n@4ax.com>
Organization: @Home
User-Agent: KNode/0.10.4
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7Bit
Message-ID: <qbidncmhyKp1LIzYRVnyiA@eclipse.net.uk>
Lines: 25
NNTP-Posting-Host: 83.100.138.236
X-Trace: sv3-YF2S8/+/
9OjT7pOQVv6UkEE0r0wDIwSS1fRXfSg7gofSlUyC3ETsvJmqTW2cDOnx4J1l0IWNUfJt6lq!
LfN49jwJuvquY3C3oJ+JSrfpyCjwElL+/HFZvwoYHfcaUc8ohsTY1JKRxiHs62FbPEsMq/dEVtqq!hq//
kkJE
X-Complaints-To: abuse@eclipse.net.uk
X-DMCA-Complaints-To: abuse@eclipse.net.uk
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:7003

Jim wrote:

> Anyone know if there is any articles on adapting a BLUETOOTH headset
> as used with cellphones for use with an Amateur HT? It would be nice
> to adapt one of the motorcycle Bluetooth helmet headsets to work with
> an amateur HT while cycling. I'm sure it's been done before, and if
> anyone knows of a source of info it would be appreciated.
>
> THanks,
>
> Jim

You can buy a cheap BT adapter for a couple of Dollars. You also need to add
a simple VOX to be really happy. However!!! I do recommend you getting
one of these throat/vibration mic headsets with a thing plastic tupe as
earpiece. Replace the original BT mic+earpiece and you have a solution that
actually works.
BT headsets are notoriously bad as they pick up to much noise. A throat mic
is just so much better. Also, these throatmic headsrets comes with a neat
ptt on a vcable. Vox just doesmn't work properly on a bike unless you have
it low sensitivity and really shout at it for tx...

Cheers

Dan / M0DFI

From -3682806047955459791
X-Google-Thread: fc2a5,86c57434bacf73a1
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newsfeed.stanford.edu!

newsfeed.news.ucla.edu!ucdavis!not-for-mail
From: Skipp says hello <spammenot@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: selecting bias inductors for amps
Date: Mon, 11 Sep 2006 16:42:59 +0000 (UTC)
Organization: University of California, Davis
Lines: 32
Sender: Skipp May <skipp@vidi.ucdavis.edu>
Message-ID: <ee43mj$8i$2@skeeter.ucdavis.edu>
References: <1156331337.369646.48320@i3g2000cwc.googlegroups.com>
NNTP-Posting-Host: vidi.ucdavis.edu
X-Trace: skeeter.ucdavis.edu 1157992979 274 169.237.105.39 (11 Sep 2006 16:42:59 GMT)
X-Complaints-To: usenet@ucdavis.edu
NNTP-Posting-Date: Mon, 11 Sep 2006 16:42:59 +0000 (UTC)
User-Agent: tin/1.4.7-20030322 ("Suggestions") (UNIX) (SunOS/5.8 (sun4u))
Xref: g2news2.google.com rec.radio.amateur.homebrew:6852

A great time to plug the yahoo rfamplifiers group where various
members would reply to your questions.

http://groups.yahoo.com/group/rfamplifiers/

cheers,
skipp

: hq105862@hotmail.com wrote:
: Hi,

: I've been sleceting inductors for chip amplifiers based on the
: datasheets, but I would really like to understand what I should be
: doing.

: If I am designing an amplifer that is to operate over say 3.4 to
: 4.2GHz, should I be looking for an inductor with self resonance above
: that band, or at centre frequency, and why?

: (I know that at self resonance, the inductor will be resistive, below
: inductive, and above capacitive, but I don't know what I should be
: looking for.)

: Should I be looking for high Q or low Q, and for what reasons would I
: choose each.

: What numerical values actually equate to High Q and Low Q?

: Is Q of 9 low, and Q of 35 high, for example?

: thanks

From -3286869359035251057

X-Google-Thread: f64c6,1056794cea986c2b
X-Google-Thread: fc2a5,1056794cea986c2b
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.75.MISMATCH!hwmnpeer01.lga!news.highwinds-media.com!cycny01.gnilink.net!
spamkiller2.gnilink.net!gnilink.net!trndny02.POSTED!3e34f8a9!not-for-mail
From: Leroy <nota.ham@never.will.be>
Organization: Radio Free America
Subject: Re: Where does the expertise of today's Radio Ham lie?
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table (Debian GNU/Linux))
Message-Id: <pan.2006.09.11.17.30.55.544407@never.will.be>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <eduiu9$ljh$1@emma.aioe.org> <V4RMg.39723$aJ.14372@attbi_s21>
<ee0tk0$jth$1@emma.aioe.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 136
Date: Mon, 11 Sep 2006 17:31:00 GMT
NNTP-Posting-Host: 68.239.13.254
X-Complaints-To: abuse@verizon.net
X-Trace: trndny02 1157995860 68.239.13.254 (Mon, 11 Sep 2006 13:31:00 EDT)
NNTP-Posting-Date: Mon, 11 Sep 2006 13:31:00 EDT
Xref: g2news2.google.com uk.radio.amateur:51535 rec.radio.amateur.homebrew:6853

On Sun, 10 Sep 2006 12:40:48 +0100, Aspiring _REAL_ Radio Ham wrote:

> I feel that I must apologise for the crocodile of immature and abusive
> children who dog my every effort on Usenet, and in particular who have
> tried to reduce this thread to an issuance from the cess-pit.
>
> I have been on Usenet since 1994. In that time I have contributed many
> articles on my stance towards maintaining the technical and gentlemanly
> traditions of Ham Radio. For my pains I have picked up a series of
> unpleasant individuals (who illustrate very well the unacceptable decline
> in standards?) who resort to the most grossly offensive and gratuitously
> insulting outbursts unrelated to anything that I have ever said or done.
>
> I have _NEVER_ originated any personal attacks on anybody. I am, however,
> only human, and have replied on occasion, but only in defensive
> indignance.
>
> I have _NEVER_ published any articles intended to annoy people or to
> provoke them. Everything that I have published has been a sincere
> expression of my stance on a number of areas, liberalism, republicanism,
> pacifism, poetry, atheism, anti-plod violence, Ham Radio.
>
> I have never claimed to be omniscient; indeed, when there have areas in
> which I have been unable to understand things, I have posted queries.
>
> I have on several occasions chastised those who use an international forum

> such as Usenet to publish infantile insulting tirades. I shall continue to
> do so.

I started to respond to your "FAQ" and then changed my mind, but your persistence compels me to respond. I too have been using the 'net for a considerable time, and FidoNet before that.

Thirty-some odd years ago I became interested in becoming a "ham". Several years earlier I had built my first receiver and became interested in electricity at an age when most kids are still trying to get their heads around "See Spot run."

I met an old ham who gave me stacks of "CQ" magazine and ARRL handbooks, most of which I read cover to cover. But, things change and I didn't get my ticket. Eventually I wound up in the Army, working on radar systems (among other things). I am technically inclined and currently work with computer hardware.

I never lost interest in radio and have always been involved, one way or another. Over the last few years I again entertained thoughts about getting my ticket. But, things seem to have changed...and not necessarilly for the better.

It seems to me that qualifications have been relaxed. Is this an attempt to increase participation in an area with declining interest? I don't know. But I do know a few current hams, and I started reading the rec.radio.amateur.homebrew newsgroup, going back to Dec. of 2005.

I am sure that there are still many helpful hams who are good people to know, I've read a number of them in this particular group. Unfortunately, there seems to also be an increasing number of people whose attitudes are repellant...including yours.

You rant about "childish insults", and immediately proceed to insult others in the same manner. You have *your* opinion of what "ham radio" is (or ought to be), and you announce that you are going to jam it down everyone's throats whether they like it or not. Frankly, I really don't see a whole lot of difference between your behaviour and that of some of those dislikeable individuals on the 11 meter band (which you denigrate as a whole with your repeated remarks about "Childish Broadcasters"). In fact, your insistence that your "FAQ" "will not be shouted down" reminds me very much of the individuals who lock down the key and proclaim "Nobody is going to talk over me" and proceed to repeat a bunch of gibberish which serves only to restrict and interfere with civilized conversation.

Though I tend not to participate in the nonsense which occurs in the "normal" portion of 11 meters there are some good people there, as there are in other areas of the spectrum and with whom I communicate. And, despite your assertion to the contrary, there are many of us in and outside of 11 meters who are interested in how radios work, and who build/modify and operate our own equipment.

You also assert that "A Ham Radio licence is such a desirable thing to have...". If it is so "desireable", then why are the standards being relaxed so as to lower the barrier to entry? In your own "FAQ" you you say that the standards are now "trivial" and "set for six-year-olds". What other reason for this could there be besides a declining level of interest?

>they are free with rather silly personal insults.

Pot? Kettle? Black?

> One infallible way to disambiguate the CB Radio Hobbyist from the _REAL_
> Radio Ham is to solicit their view of the difference between CB Radio
> and Ham Radio. A Radio Ham will perceive Ham Radio to be a technical
> pursuit and will perceive CB Radio to be a social communications
> facility

What makes you think that *your* opinion is the only valid opinion? Or, indeed, that it is valid at all?

Strictly a technical pursuit? Surely you jest. Even in the past when technical knowledge and code skills were of greater importance, even "ham" radio was a "social communications facility". The fact that much of the communication may have been technical in nature in no way lessens the "social communication" aspect.

> There is not today, nor has there ever been, a need to go out
> and encourage and press children, children who have never expressed an
> interest in Ham Radio, to come into our shacks. Such an activity should
> cause eyebrows to be raised - what normal well-adjusted adults seek the
> social acquaintance of children?!

What? I'm not even sure how to respond to *this*, except to say that were it not for adults introducing me to various technical pursuits and encouraging me to get involved, and teaching me, I would not have accomplished a fraction of the things I have done over the years.

> Please remember that this FAQ is a _POSITIVE EXHORTATION_ to you to
> exert yourselves to join our fraternity!

If that is your intent, I think you are falling far short of the mark. In fact, you have reduced my interest in obtaining an amateur license practically to zero. Was it Groucho Marx that said "I wouldn't be a member of any club that would have me"? I think I'll take a "pass" on joining *your* "fraternity". You've even got me to thinking that maybe the government(s) should stop wasting money on regulating the amateur bands, open them up to anyone who cares to operate on them, without restrictions, and abandon them them, much as they have done with the "CB" band in the US.

I'll continue to operate my radios but I see little point in expending the effort to get a ham ticket just to encounter the same sort of people that I can run into on 11 meters with no effort at all.

Say, how are you doing with that question of which end of a resistor is

```
which? When you get that worked out, perhaps you'd care to comment on the
feasibility of using a tuneable Klystron oscillator to drive a magnetron
in a high-power pulsed RF application.



From 3271284908109873997
X-Google-Thread: fc2a5,8e535764e16b7b13
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!news-out.readnews.com!
news-xxxfer.readnews.com!newspeer.tds.net!216.168.1.163.MISMATCH!sn-xt-sjc-03!sn-
xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Joel Kolstad" <JKolstad71HatesSpam@yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Schematic drawing software?
Date: Mon, 11 Sep 2006 10:40:34 -0700
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <12gb7sk9rbmscde@corp.supernews.com>
References: <m060d2dc269hohcatln7vist6krd6mjdiu@4ax.com>
<edsdf6$1102$1@agate.berkeley.edu> <NqydncdMLaNUcZzYRVnyrg@eclipse.net.uk>
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Complaints-To: abuse@supernews.com
Lines: 19
Xref: g2news2.google.com rec.radio.amateur.homebrew:6854

"Dan Andersson" <dan@andersson.co.uk> wrote in message
news:NqydncdMLaNUcZzYRVnyrg@eclipse.net.uk...
> David Snyder Hale wrote:
>> Bill Turner <noway@nohow.com> wrote:
>>> longer have access to it. Can someone recommend a program to use at
>>> home for creating schematic drawings? I don't care if it is payware as
>> Try EAGLE, at www.cadsoft.de
> Eagle is crippleware

Only the free version!

> Go get KiCad. GPL license, no limitations and runs on both Linux and
> Windooze. You find KiCad on the net for download.

Certainly worth checking out, but I'd be surprised if most people felt that
KiCad and EAGLE with "roughly comparable" -- most people would definitely tend
to prefer one over the other.




From -381209765327013398
X-Google-Thread: f64c6,1056794cea986c2b
```

```
X-Google-Thread: fc2a5,1056794cea986c2b
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!postnews.google.com!
d34g2000cwd.googlegroups.com!not-for-mail
From: "G1LVN" <gareth.paley@gmail.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Where does the expertise of today's Radio Ham lie?
Date: 11 Sep 2006 12:49:18 -0700
Organization: http://groups.google.com
Lines: 16
Message-ID: <1158004158.695580.113450@d34g2000cwd.googlegroups.com>
References: <eduiu9$ljh$1@emma.aioe.org><ee0tk0$jth$1@emma.aioe.org>
   <4mj3joF6dhaoU1@individual.net>
   <1157915536.496615.275700@i3g2000cwc.googlegroups.com>
   <DYCdnVOkYoSM-pnYnZ2dnUVZ8qWdnZ2d@giganews.com>
NNTP-Posting-Host: 86.131.111.206
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158004163 22068 127.0.0.1 (11 Sep 2006 19:49:23 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 11 Sep 2006 19:49:23 +0000 (UTC)
In-Reply-To: <DYCdnVOkYoSM-pnYnZ2dnUVZ8qWdnZ2d@giganews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.5) Gecko/20060127
Netscape/8.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: d34g2000cwd.googlegroups.com; posting-host=86.131.111.206;
   posting-account=lTDJbwwAAADUFyWXeVaAQm8KHXZ6OonH
Xref: g2news2.google.com uk.radio.amateur:51559 rec.radio.amateur.homebrew:6855


huLLy wrote:
> G1LVN wrote:
> > Bowman wrote:
> >> "Aspiring _REAL_ Radio Ham" <me@privacy.net> wrote in message
> >> news:ee0tk0$jth$1@emma.aioe.org...
> >>> I have _NEVER_ published any articles intended to annoy people
> >>> or to provoke them.
> >
> > Accusing me by name in a post subject line of cancelling his amateur
> > radio licence on-line....
>
> Always wondered who that was ;)

I rather think it might have been G8DXY ;-)



From 6226344212676007967
X-Google-Thread: f64c6,1056794cea986c2b
X-Google-Thread: fc2a5,1056794cea986c2b
X-Google-Attributes: gidf64c6,gidfc2a5,public
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!news.giganews.com.POSTED!not-for-
mail
NNTP-Posting-Date: Mon, 11 Sep 2006 15:43:34 -0500
From: "huLLy" <villageidiot@sheepandmeths.co.uk>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
References: <eduiu9$ljh$1@emma.aioe.org><ee0tk0$jth$1@emma.aioe.org>
<4mj3joF6dhaoU1@individual.net>
<1157915536.496615.275700@i3g2000cwc.googlegroups.com>   <DYCdnVOkYoSM-
pnYnZ2dnUVZ8qWdnZ2d@giganews.com>
<1158004158.695580.113450@d34g2000cwd.googlegroups.com>
Subject: Re: Where does the expertise of today's Radio Ham lie?
Date: Mon, 11 Sep 2006 21:43:33 +0100
Organization: NNTP-Posting-Host: 212.21.118.235
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <OvCdnaY9sqzqV5jYnZ2dnUVZ8qKdnZ2d@giganews.com>
Lines: 13
X-Trace: sv3-Fanw4MBAmDH5/
isprUy2e3jzc4D68fCsLDk3vuIspvEktmdL2Nqql3wByMe7WuAeZS8piAeeF/lPZzE!
4wD12JlVwcchOYJBNFQNlzJ9kHZ+eT38v6RJgRED7ZecZEDZVPcEHigxdd7pEw8suxv4Ra0oPA==
X-Complaints-To: abuse@giganews.com
X-DMCA-Notifications: http://www.giganews.com/info/dmca.html
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com uk.radio.amateur:51581 rec.radio.amateur.homebrew:6856

G1LVN wrote:
>
> I rather think it might have been G8DXY ;-)

Let's face it, it could have been any of the 3000 posters that have been
Beaned
--
huLLy
Tel: 07976 123278
villageidiot(at)sheepandmeths.co.uk
ICQ 136-987-925




From 8891775428276422405
X-Google-Thread: f64c6,1056794cea986c2b
X-Google-Thread: fc2a5,1056794cea986c2b
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news2.google.com!postnews.google.com!q16g2000cwq.googlegroups.com!not-for-
mail
From: "G1LVN" <gareth.paley@gmail.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Where does the expertise of today's Radio Ham lie?
Date: 11 Sep 2006 14:16:43 -0700
Organization: http://groups.google.com
Lines: 17
Message-ID: <1158009402.985334.189020@q16g2000cwq.googlegroups.com>
References: <eduiu9$ljh$1@emma.aioe.org><4mj3joF6dhaoU1@individual.net>
   <1157915536.496615.275700@i3g2000cwc.googlegroups.com>
   <DYCdnVOkYoSM-pnYnZ2dnUVZ8qWdnZ2d@giganews.com>
   <1158004158.695580.113450@d34g2000cwd.googlegroups.com>
   <OvCdnaY9sqzqV5jYnZ2dnUVZ8qKdnZ2d@giganews.com>
NNTP-Posting-Host: 86.131.111.206
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158009408 15144 127.0.0.1 (11 Sep 2006 21:16:48 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Mon, 11 Sep 2006 21:16:48 +0000 (UTC)
In-Reply-To: <OvCdnaY9sqzqV5jYnZ2dnUVZ8qKdnZ2d@giganews.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Win98; en-US; rv:1.7.5) Gecko/20060127
Netscape/8.1,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: q16g2000cwq.googlegroups.com; posting-host=86.131.111.206;
   posting-account=lTDJbwwAAADUFyWXeVaAQm8KHXZ6OonH
Xref: g2news2.google.com uk.radio.amateur:51588 rec.radio.amateur.homebrew:6857
```

huLLy wrote:

> G1LVN wrote:
> >
> > I rather think it might have been G8DXY ;-)
>
> Let's face it, it could have been any of the 3000 posters that have been
> Beaned
> --
> huLLy
> Tel: 07976 123278
> villageidiot(at)sheepandmeths.co.uk
> ICQ 136-987-925

not really, only G8DXY would have access to the Ref number on Beanies Validation Document.

```
From -7577285685736335771
X-Google-Thread: 1060db,a8d1eae57f8c0c91
X-Google-Thread: fc2a5,a8d1eae57f8c0c91
X-Google-Thread: 108122,a8d1eae57f8c0c91
X-Google-Attributes: gid1060db,gidfc2a5,gid108122,public
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Mon, 11 Sep 2006 21:54:10 -0500
From: "scrook" <dingiswayo324_at_yahoo.com>
Newsgroups:
rec.crafts.metalworking,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
References: <tqe4g2hadr1e42ehb3nlida53gnt25d53d@4ax.com>
<EdFMg.30957$ry2.6768@bignews3.bellsouth.net>
<34c6g2pv3c1iktjatf4sfsrfk1mkj69chg@4ax.com>
Subject: Re: Overheating AA batteries
Date: Mon, 11 Sep 2006 22:54:11 -0400
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <mJqdnayywZfPvJvYnZ2dnUVZ_r2dnZ2d@comcast.com>
Lines: 49
NNTP-Posting-Host: 24.128.218.117
X-Trace: sv3-5pHMPGN/
2scXVYxSUVGolIMNI5cBqtRGZyX74RvDlGuRQ0gEJiAL0sH6dpzoVQYM1DU9CkOSGLcEcDF!
NyRrD8RUUsCQFMGJ6xMsNOOcuVzJIUskJu0oUw+1pd5WJj+ZHUShK3diwBvlIYae4emtO1odcp1S!
0eZQAbeugRXc
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.crafts.metalworking:91406
rec.radio.amateur.homebrew:6858 rec.radio.amateur.equipment:6071

Positive can/case is standard alkaline cell construction. The correct
question would be "has anyone ever seen a negative cased alkaline cell?"


"Mark Rand" <randm@internettie.co.uk> wrote in message
news:34c6g2pv3c1iktjatf4sfsrfk1mkj69chg@4ax.com...
> On Sat, 09 Sep 2006 16:11:20 -0400, ken scharf
> <wa2mzeNOSPAMBOTS@bellsouth.net> wrote:
>
>>bart wrote:
>>> This evening the GF noticed that the remote control wasn't working &
>>> was hot.
>>> I pulled out the extremely hot AA batteries.
>>> It looks like the spring contact in the remote control, on the
>>> negative side had worn away the plastic covering on the side of the
>>> battery & shorted the side metal battery casing to the negative
>>> contact, thereby causing the overheating.
>>> In my many years of battery dissection, I've never seen the side
>>> casing of a battery being positive before!
>>> These were "Golden Power" alkaline batteries, made in China.
>>> They were the original batteries that came with the remote ( for a
>>> Shaw digital cable box).
>>> Anyone ever seen a positive case AA battery before, or is this a new (
>>> dumb) idea?
>>I've seen many Alkaline batteries with the outside casing connected to
>>the 'tit' on top as the positive and the bottom flat connector was
>>insulated from the body of the battery.  alkaline batteries have
>>different chemistry from carbon zinc resulting in an inverted
>>construction. This may actually be the norm, but in the larger sizes
>>the plastic outer wrap hides the details.   Just looked at a DuraCell
>>"D" and it is of the inverted construction, but the insulation of the
>>battery bottom (-) terminal from the case of the battery is hidden
>>under the plastic wrapping.
>
>
> Since it's the cathode that gets eaten in whichever reaction is used for
> the
> battery type, it might make sense to have the anode as the case.
>
> I could have done with this 25 years ago when I got sent abroad for work
> for
> three of months and came back to find that the transistor radio batteries
> had
> leaked all over one of my (expensive) loudspeakers :-(
>
> Mark Rand
> RTFM




From -6622007410034736025
X-Google-Thread: f64c6,1056794cea986c2b
X-Google-Thread: fc2a5,1056794cea986c2b
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!news.motzarella.org!
aioe.org!emma.aioe.org!aioe.org!not-for-mail
From: "Gareth Alun Evans" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Where does the expertise of today's Radio Ham lie?
Date: Tue, 12 Sep 2006 07:33:41 +0100
Organization: Aioe.org NNTP Server
Lines: 13
Message-ID: <ee5kc8$914$1@emma.aioe.org>
References: <eduiu9$ljh$1@emma.aioe.org> <eduv0u$jqu$1@emma.aioe.org>
<ee0i6q$vh7$1@emma.aioe.org>
NNTP-Posting-Host: 4oAhJZ5cBo73lzmEtZNvgw.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
```

```
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com uk.radio.amateur:51627 rec.radio.amateur.homebrew:6859
```

Aspiring _REAL_ Radio Ham wrote:
>>
>> Shame on you all. You do nothing for the PR of Ham Radio.

Yes, none of you have tried shouting CQ through the bars of a cell with a blanket on your head.

I made lots of contacts, mostly boots to the head and handcuff marks to the wrists.

73's G4SDW

```
From -4423858832516604570
X-Google-Thread: f64c6,3010b0fa78ab7f95
X-Google-Thread: 107ada,3010b0fa78ab7f95
X-Google-Thread: fc2a5,3010b0fa78ab7f95
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!newspeer1.se.telia.net!
se.telia.net!masternews.telia.net.!newsb.telia.net.POSTED!not-for-mail
From: "Joe Ninetee" <j90@hotmail.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <eduk6e$f94$1@emma.aioe.org>
Subject: Re: What Is Ham Radio?......The FAQ
Lines: 16
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2600.0000
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
Message-ID: <3jxNg.16211$E02.6200@newsb.telia.net>
Date: Tue, 12 Sep 2006 11:59:59 GMT
NNTP-Posting-Host: 81.227.196.38
X-Complaints-To: abuse@telia.com
X-Trace: newsb.telia.net 1158062399 81.227.196.38 (Tue, 12 Sep 2006 13:59:59 CEST)
NNTP-Posting-Date: Tue, 12 Sep 2006 13:59:59 CEST
Organization: Telia Internet
Xref: g2news2.google.com uk.radio.amateur:51653 rec.radio.amateur.misc:21408
rec.radio.amateur.homebrew:6860
```

> So,.....What is Ham Radio?
>
> Ham Radio is a technical pursuit for those who
> are interested in the science of radio wave
> propagation and who are also interested in the
> way that their radios function. It has a long-standing
> tradition of providing a source of engineers who

> are born naturals.

You mean a sort of unique club for the elite?
With secret hamonic handshakes?
With members who are all "upper class" school educated?

Ok. I get the picture, good buddy.

```
From -6394007678930143518
X-Google-Thread: f64c6,3010b0fa78ab7f95
X-Google-Thread: 107ada,3010b0fa78ab7f95
X-Google-Thread: fc2a5,3010b0fa78ab7f95
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news2.volia.net!news.ecp.fr!aioe.org!
emma.aioe.org!aioe.org!not-for-mail
From: "Fred Spectrum" <fred@spectrum.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
Subject: Re: What Is Ham Radio?......The FAQ
Date: Tue, 12 Sep 2006 13:13:04 +0100
Organization: Aioe.org NNTP Server
Lines: 9
Message-ID: <ee67tr$3r7$1@emma.aioe.org>
References: <eduk6e$f94$1@emma.aioe.org> <3jxNg.16211$E02.6200@newsb.telia.net>
NNTP-Posting-Host: 3/bkkox7f910FMKxdvr+6g.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
X-Priority: 3
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MSMail-Priority: Normal
Xref: g2news2.google.com uk.radio.amateur:51654 rec.radio.amateur.misc:21410
rec.radio.amateur.homebrew:6861
```

Oh dear, don't start Mr Evans on one of his rants about the masons :-(

"Joe Ninetee" <j90@hotmail.com> wrote in message
news:3jxNg.16211$E02.6200@newsb.telia.net...
> With secret hamonic handshakes?

```
From -6148485063358524050
X-Google-Thread: f64c6,3010b0fa78ab7f95
X-Google-Thread: 107ada,3010b0fa78ab7f95
X-Google-Thread: fc2a5,3010b0fa78ab7f95
X-Google-Attributes: gidf64c6,gid107ada,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!news1.google.com!news.germany.com!multikabel.net!
feed20.multikabel.net!news.tele.dk!news.tele.dk!small.news.tele.dk!
newspeer2.se.telia.net!se.telia.net!masternews.telia.net.!newsb.telia.net.POSTED!
not-for-mail
From: "Joe Ninetee" <j90@hotmail.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.misc,rec.radio.amateur.homebrew
References: <eduk6e$f94$1@emma.aioe.org> <3jxNg.16211$E02.6200@newsb.telia.net>
<ee67tr$3r7$1@emma.aioe.org>
Subject: Re: What Is Ham Radio?......The FAQ
Lines: 15
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2600.0000
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
Message-ID: <OFxNg.16212$E02.6364@newsb.telia.net>
Date: Tue, 12 Sep 2006 12:24:14 GMT
NNTP-Posting-Host: 81.227.196.38
X-Complaints-To: abuse@telia.com
X-Trace: newsb.telia.net 1158063854 81.227.196.38 (Tue, 12 Sep 2006 14:24:14 CEST)
NNTP-Posting-Date: Tue, 12 Sep 2006 14:24:14 CEST
Organization: Telia Internet
Xref: g2news2.google.com uk.radio.amateur:51655 rec.radio.amateur.misc:21411
rec.radio.amateur.homebrew:6862

Sorry! Then I guess he's not yet invented the "hamon"!
My only **real** comment is that we are all **radio
amateurs**, who hold **experimenters licences**. At
least that's what they called them when they were
invented, to keep them seperated from the
professionals.

> Oh dear, don't start Mr Evans on one of his
> rants about the masons :-(

> > With secret hamonic handshakes?

From 3155683517633578501
X-Google-Thread: f64c6,1056794cea986c2b
X-Google-Thread: fc2a5,1056794cea986c2b
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-
online.de!news.newsland.it!aioe.org!emma.aioe.org!aioe.org!not-for-mail
From: "Fred Spectrum" <fred@spectrum.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Where does the expertise of today's Radio Ham lie?
Date: Tue, 12 Sep 2006 14:43:17 +0100

```
Organization: Aioe.org NNTP Server
Lines: 10
Message-ID: <ee6d70$rm1$1@emma.aioe.org>
References: <eduiu9$ljh$1@emma.aioe.org> <eduv0u$jqu$1@emma.aioe.org>
<ee0i6q$vh7$1@emma.aioe.org> <ee5kc8$914$1@emma.aioe.org>
NNTP-Posting-Host: 3/bkkox7f910FMKxdvr+6g.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
X-Priority: 3
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MSMail-Priority: Normal
Xref: g2news2.google.com uk.radio.amateur:51659 rec.radio.amateur.homebrew:6863

A real QRPer would have used 2 blankets  :-)


"Gareth Alun Evans" <me@privacy.net> wrote in message
news:ee5kc8$914$1@emma.aioe.org...
> Yes, none of you have tried shouting CQ through the bars of a cell with a
> blanket on your head.





From -1574132100328665226
X-Google-Thread: f64c6,1056794cea986c2b
X-Google-Thread: fc2a5,1056794cea986c2b
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.germany.com!news.motzarella.org!
aioe.org!emma.aioe.org!aioe.org!not-for-mail
From: "BOB \(Bog Off Beanie\)" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Where does the expertise of today's Radio Ham lie?
Date: Tue, 12 Sep 2006 19:04:20 +0100
Organization: Aioe.org NNTP Server
Lines: 17
Message-ID: <ee6sr4$9g3$1@emma.aioe.org>
References: <eduiu9$ljh$1@emma.aioe.org> <eduv0u$jqu$1@emma.aioe.org>
<ee0i6q$vh7$1@emma.aioe.org> <ee5kc8$914$1@emma.aioe.org>
NNTP-Posting-Host: EebjkRLwGziNFEpWBxA3Aw.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com uk.radio.amateur:51693 rec.radio.amateur.homebrew:6864

"Gareth Alun Evans" <me@privacy.net> wrote in message
news:ee5kc8$914$1@emma.aioe.org...
> Aspiring _REAL_ Radio Ham wrote:
```

```
>>>
>>> Shame on you all. You do nothing for the PR of Ham Radio.
>
> Yes, none of you have tried shouting CQ through the bars of a cell with a
> blanket on your head.
>
> I made lots of contacts, mostly boots to the head and handcuff marks to
> the wrists.
>
> 73's G4SDW
>
ROTFLMAO
```

```
From -4039092375490238512
X-Google-Thread: fc2a5,9520844e5f23670f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.maxwell.syr.edu!news.tele.dk!
news.tele.dk!small.news.tele.dk!lnewsinpeer00.lnd.ops.eu.uu.net!
bnewsinpeer00.bru.ops.eu.uu.net!emea.uu.net!newsfeed.arcor.de!newsspool2.arcor-
online.net!news.arcor.de.POSTED!not-for-mail
Reply-To: "Henry Kiefer" <otc_friend@gmx.net>
From: "Henry Kiefer" <otc_friend@gmx.net>
Newsgroups: rec.radio.amateur.homebrew
References: <1157660239.048126.59500@e3g2000cwe.googlegroups.com>
<1157677471.049917.187520@m73g2000cwd.googlegroups.com>
<12g1vm8jkmdoi23@corp.supernews.com>
<1157746099.402074.108200@e3g2000cwe.googlegroups.com>
<4502c78c$0$5155$9b4e6d93@newsspool1.arcor-online.net>
<1157842543.577546.103170@m73g2000cwd.googlegroups.com>
Subject: Re: Intermediate Frequency
Date: Tue, 12 Sep 2006 20:37:31 +0200
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Lines: 49
Message-ID: <450703aa$0$18483$9b4e6d93@newsspool3.arcor-online.net>
Organization: Arcor
NNTP-Posting-Date: 12 Sep 2006 20:59:54 CEST
NNTP-Posting-Host: 86e1da8c.newsspool3.arcor-online.net
X-Trace:
DXC=X8\E<jhJbgYf8j24CD<3lPMcF=Q^Z^V3X4Fo<]lROoRQ4nDHegD_]RUYlN0nhBWIE\VX4M12AVlM[H
Yl5Dd>ETLSN5;=D[neDkWZJW]6mj7W4_
X-Complaints-To: usenet-abuse@arcor.de
Xref: g2news2.google.com rec.radio.amateur.homebrew:6865

Thanks for responding Glenn!

> Provided you implement the Tayloe mixer with sufficient baseband
```

> bandwidth (probably about 20 KHz for NBFM), you can mix, say, a 2 meter FM signal to baseband and demodulate it with an audio discriminator (some sort of audio frequency to voltage conversion scheme). Mix the signal to be either exclusively in the upper or lower sideband of the output. So, for example, a NBFM sig at 146.000 MHz mix with the Tayloe mixer set to 145.990 MHz and select the upper sideband. The upper or lower sidebands are, as you probably know, selected by phase shifting and summing circuits following the Tayloe mixer (implemented in software in SDRs). Note that SDRs like the Flex-Radio SDR 1000 do not process incoming signals near 0 Hz anyway, but mix the desired signal centered around about 11 KHz (I think).

So the phase shifter is NOT for flatten the group delay variance (source is the Tayloe mixer low-pass)?

Is multiplying I with Q enougth to demodulate FM as in a quadrature demodulator?
I cannot find a suitable theory page to look for.

>
> The Tayloe mixer is a passive mixer terminated in large capacitors, and similar performance can be obtained at VHF, UHF and microwaves with two FET ring mixers driven with quadrature signals and also terminated with capacitors (that is, no wideband transformer on the mixer outputs, but capacitors followed by HiZ input differential audio amps). I've done this with the Peregrine Semiconductor FET mixers.

Thank you for given the link to Peregrine. I read the datasheet. How do you mix it?
At the moment I prefer the Tayloe mixer because of it's simplicity.
BTW: They have a nice low-power consumption PLL being compatible to National.

At TI I found nice tinylogic capable of switching like a 4066 down to 500ps ...
Should be possible to run the mixer at 150MHz with it.

> Only familiar with the dsPIC, though the others sound okay. The dsPIC would work, though its 12 bit A/D doesn't give a lot of dynamic range. Plenty for NBFM though, especially since you can run the signal(s) through a limiter first. For NBFM sixteen bit DSP is sufficient.

How much dynamic range do I need? I thought about 100dB?
If I recall theory I loss 2dB if limiting the signal to remove AM sensitivy.

regards -
Henry

From -5729629014918577007
X-Google-Thread: f64c6,1056794cea986c2b
X-Google-Thread: fc2a5,1056794cea986c2b
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit

Path: g2news2.google.com!postnews.google.com!p79g2000cwp.googlegroups.com!not-for-mail
From: "Mike Gathergood (G4KFK)" <mike@g4kfk.co.uk>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Where does the expertise of today's Radio Ham lie?
Date: 12 Sep 2006 12:38:02 -0700
Organization: http://groups.google.com
Lines: 6
Message-ID: <1158089882.406609.112010@p79g2000cwp.googlegroups.com>
References: <eduiu9ljh1@emma.aioe.org><eduv0ujqu1@emma.aioe.org>
   <ee0i6q$vh7$1@emma.aioe.org>
   <ee5kc8$914$1@emma.aioe.org>
   <ee6sr4$9g3$1@emma.aioe.org>
NNTP-Posting-Host: 62.253.96.44
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158089888 15533 127.0.0.1 (12 Sep 2006 19:38:08 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 12 Sep 2006 19:38:08 +0000 (UTC)
In-Reply-To: <ee6sr4$9g3$1@emma.aioe.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90; .NET CLR 1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p79g2000cwp.googlegroups.com; posting-host=62.253.96.44;
   posting-account=fTcdIQ0AAAC07gA1BA9FOc-RumYX4ZMS
Xref: g2news2.google.com uk.radio.amateur:51711 rec.radio.amateur.homebrew:6866

BOB (Bog Off Beanie) wrote:
> ROTFLMAO

This aioe.org server seems to be doing overtime in this ng :-)

From -8690987408557402265
X-Google-Thread: f64c6,1056794cea986c2b
X-Google-Thread: fc2a5,1056794cea986c2b
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!newspeer1.nwr.nac.net!newsfeed.freenet.de!news.newsland.it!aioe.org!emma.aioe.org!aioe.org!not-for-mail
From: "Gareth Alun Evans" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Where does the expertise of today's Radio Ham lie?
Date: Tue, 12 Sep 2006 21:24:34 +0100
Organization: Aioe.org NNTP Server
Lines: 9
Message-ID: <ee7525$dqs$1@emma.aioe.org>
References: <eduiu9ljh1@emma.aioe.org><eduv0ujqu1@emma.aioe.org>
<ee0i6q$vh7$1@emma.aioe.org>   <ee5kc8$914$1@emma.aioe.org>

```
<ee6sr4$9g3$1@emma.aioe.org>
<1158089882.406609.112010@p79g2000cwp.googlegroups.com>
NNTP-Posting-Host: 4oAhJZ5cBo73lzmEtZNvgw.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com uk.radio.amateur:51724 rec.radio.amateur.homebrew:6867

Mike Gathergood (G4KFK) wrote:
> BOB (Bog Off Beanie) wrote:
>> ROTFLMAO
>
> This aioe.org server seems to be doing overtime in this ng  :-)

That is a very Cheap Bastard (CB) point - you know I don't work!




From -4299230697373776058
X-Google-Thread: fc2a5,9520844e5f23670f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-
mail
From: "MadEngineer" <glenn.b.dixon@gmail.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Intermediate Frequency
Date: 12 Sep 2006 13:34:58 -0700
Organization: http://groups.google.com
Lines: 54
Message-ID: <1158093298.251749.110820@e3g2000cwe.googlegroups.com>
References: <1157660239.048126.59500@e3g2000cwe.googlegroups.com>
   <1157677471.049917.187520@m73g2000cwd.googlegroups.com>
   <12g1vm8jkmdoi23@corp.supernews.com>
   <1157746099.402074.108200@e3g2000cwe.googlegroups.com>
   <4502c78c$0$5155$9b4e6d93@newsspool1.arcor-online.net>
   <1157842543.577546.103170@m73g2000cwd.googlegroups.com>
   <450703aa$0$18483$9b4e6d93@newsspool3.arcor-online.net>
NNTP-Posting-Host: 208.177.146.102
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158093303 23754 127.0.0.1 (12 Sep 2006 20:35:03 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Tue, 12 Sep 2006 20:35:03 +0000 (UTC)
In-Reply-To: <450703aa$0$18483$9b4e6d93@newsspool3.arcor-online.net>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.6)
Gecko/20060728 Firefox/1.5.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
```

Injection-Info: e3g2000cwe.googlegroups.com; posting-host=208.177.146.102;
   posting-account=EvBMNw0AAABX-Et6w0086s4DXqrY-API
Xref: g2news2.google.com rec.radio.amateur.homebrew:6868

Henry Kiefer wrote:

> So the phase shifter is NOT for flatten the group delay variance (source is the Tayloe mixer low-pass)?

If I understand your question correctly, that is true. The IQ output from the Tayloe mixer (or any IQ mixer) is not upper and lower sideband. To get those you must do further signal processing, which usually involves shifting the I and Q channels ninety degress with respect to each other then summing or subtracting the channels depending on which sideband you want.

> Is multiplying I with Q enougth to demodulate FM as in a quadrature demodulator?
> I cannot find a suitable theory page to look for.

I can't either. The IQ signals multiplied do not make an FM quadrature detector as the phase does not really shift much over the NBFM bandwidth. There may be a clever way to extract FM more direcly from the IQ channels without first detecting a sideband, but I don't know it.

> Thank you for given the link to Peregrine. I read the datasheet. How do you mix it?

Maybe the wrong part? I'm talking about the PE4140 FET ring mixer. You use two, driven with LOs ninety degress out of phase with respect to each other.

> At the moment I prefer the Tayloe mixer because of it's simplicity.
> BTW: They have a nice low-power consumption PLL being compatible to National.
>
> At TI I found nice tinylogic capable of switching like a 4066 down to 500ps ...
> Should be possible to run the mixer at 150MHz with it.

Yeah--digital just keeps getting better. Good luck.

> How much dynamic range do I need? I thought about 100dB?
> If I recall theory I loss 2dB if limiting the signal to remove AM

sensitivy.techniques,

You need good dynamic range up to the limiter. This can be done with analog circuits as discussed. After the limiter an A/D converter is not even needed in theory--a fast-running timer hooked to a digital port could do the trick. I don't remember any loss by removing AM in the limiter (since all the the information is contained in the

```
frequency of the signal), but my theory is in the distant past, back
when FM meant 'funny math'.

Regards,
Glenn




From -5926357493200947757
X-Google-Thread: fc2a5,d52fa1518d02ff00
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news3.google.com!news.glorb.com!
newsfeed.pionier.net.pl!news.nask.pl!news.nask.org.pl!lublin.pl!news.lublin.pl!
not-for-mail
From: jean@pisem.net (Wendy)
Newsgroups: rec.radio.amateur.homebrew
Subject: My homepage
Date: Tue, 12 Sep 2006 21:39:58 +0000 (UTC)
Organization: not organized
Lines: 4
Message-ID: <ee79fe$3g5$1@news.lublin.pl>
References: <1154757800.512447.58910@i3g2000cwc.googlegroups.com>
NNTP-Posting-Host: eter.ariadna.cd
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-15
Content-Transfer-Encoding: 8bit
X-Trace: news.lublin.pl 1158097198 3589 212.182.111.250 (12 Sep 2006 21:39:58 GMT)
X-Complaints-To: abuse@news.lublin.pl
NNTP-Posting-Date: Tue, 12 Sep 2006 21:39:58 +0000 (UTC)
User-Agent: NewsPortal 0.24pre9, http://florian-amrhein.de/newsportal/
X-HTTP-Posting-Host: galaxy-webhosting.co.uk
Xref: g2news2.google.com rec.radio.amateur.homebrew:6869

Great work!
[url=http://klhkdujt.com/kzfm/pycz.html]My homepage[/url] |
[url=http://pmgalzry.com/fgkq/qhay.html]Cool site[/url]




From -9038188503944926968
X-Google-Thread: fc2a5,d52fa1518d02ff00
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!newsfeed00.sul.t-online.de!t-
online.de!news.nask.pl!news.nask.org.pl!lublin.pl!news.lublin.pl!not-for-mail
From: wendy@pisem.net (Craig)
Newsgroups: rec.radio.amateur.homebrew
Subject: My homepage
Date: Tue, 12 Sep 2006 21:40:02 +0000 (UTC)
Organization: not organized
Lines: 4
```

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Message-ID: <ee79fi$3gg$1@news.lublin.pl>
References: <1154757800.512447.58910@i3g2000cwc.googlegroups.com>
NNTP-Posting-Host: eter.ariadna.cd
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-15
Content-Transfer-Encoding: 8bit
X-Trace: news.lublin.pl 1158097202 3600 212.182.111.250 (12 Sep 2006 21:40:02 GMT)
X-Complaints-To: abuse@news.lublin.pl
NNTP-Posting-Date: Tue, 12 Sep 2006 21:40:02 +0000 (UTC)
User-Agent: NewsPortal 0.24pre9, http://florian-amrhein.de/newsportal/
X-HTTP-Posting-Host: 246.67.232.72.reverse.layeredtech.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:6870

Great work!
<a href="http://klhkdujt.com/kzfm/pycz.html">My homepage</a> | <a
href="http://catsaffb.com/shql/dmod.html">Please visit</a>




From 2102494508451317825
X-Google-Thread: fc2a5,d52fa1518d02ff00
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.nask.pl!
news.nask.org.pl!lublin.pl!news.lublin.pl!not-for-mail
From: lee@pismo.com (Naomi)
Newsgroups: rec.radio.amateur.homebrew
Subject: My homepage
Date: Tue, 12 Sep 2006 21:40:09 +0000 (UTC)
Organization: not organized
Lines: 3
Message-ID: <ee79fp$3gm$1@news.lublin.pl>
References: <1154757800.512447.58910@i3g2000cwc.googlegroups.com>
NNTP-Posting-Host: eter.ariadna.cd
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-15
Content-Transfer-Encoding: 8bit
X-Trace: news.lublin.pl 1158097209 3606 212.182.111.250 (12 Sep 2006 21:40:09 GMT)
X-Complaints-To: abuse@news.lublin.pl
NNTP-Posting-Date: Tue, 12 Sep 2006 21:40:09 +0000 (UTC)
User-Agent: NewsPortal 0.24pre9, http://florian-amrhein.de/newsportal/
X-HTTP-Posting-Host: host35.kinja.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:6871

Great work!
http://klhkdujt.com/kzfm/pycz.html | http://ycceorhp.com/ggqr/echt.html




From 7650529681082376429
X-Google-Thread: f64c6,1056794cea986c2b
X-Google-Thread: fc2a5,1056794cea986c2b
```

```
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!news.glorb.com!
news.newsland.it!aioe.org!emma.aioe.org!aioe.org!not-for-mail
From: "BOB \(Bog Off Beanie\)" <me@privacy.net>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Where does the expertise of today's Radio Ham lie?
Date: Tue, 12 Sep 2006 22:41:00 +0100
Organization: Aioe.org NNTP Server
Lines: 11
Message-ID: <ee79hf$lq4$1@emma.aioe.org>
References: <eduiu9$ljh$1@emma.aioe.org><eduv0u$jqu$1@emma.aioe.org>
<ee0i6q$vh7$1@emma.aioe.org>   <ee5kc8$914$1@emma.aioe.org>
<ee6sr4$9g3$1@emma.aioe.org>
<1158089882.406609.112010@p79g2000cwp.googlegroups.com>
NNTP-Posting-Host: EebjkRLwGziNFEpWBxA3Aw.user.aioe.org
X-Complaints-To: abuse@aioe.org
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-Priority: 3
X-MSMail-Priority: Normal
Xref: g2news2.google.com uk.radio.amateur:51730 rec.radio.amateur.homebrew:6872

"Mike Gathergood (G4KFK)" <mike@g4kfk.co.uk> wrote in message
news:1158089882.406609.112010@p79g2000cwp.googlegroups.com...
>
> BOB (Bog Off Beanie) wrote:
>> ROTFLMAO
>
> This aioe.org server seems to be doing overtime in this ng  :-)
>
and just think, it's all thanks to Beanie.




From 4743868985651186561
X-Google-Thread: 1060db,a8d1eae57f8c0c91
X-Google-Thread: fc2a5,a8d1eae57f8c0c91
X-Google-Thread: 108122,a8d1eae57f8c0c91
X-Google-Attributes: gid1060db,gidfc2a5,gid108122,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.nethere.com!
news.nethere.com.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 12 Sep 2006 16:47:48 -0500
From: "Bob May" <bobmay@nethere.com>
Newsgroups:
rec.crafts.metalworking,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
References: <tqe4g2hadr1e42ehb3nlida53gnt25d53d@4ax.com>
<EdFMg.30957$ry2.6768@bignews3.bellsouth.net>
<34c6g2pv3c1iktjatf4sfsrfk1mkj69chg@4ax.com>
```

<mJqdnayywZfPvJvYnZ2dnUVZ_r2dnZ2d@comcast.com>
Subject: Re: Overheating AA batteries
Date: Tue, 12 Sep 2006 14:51:53 -0700
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 5.00.2615.200
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
Message-ID: <sK6dncYRL5WYtprYnZ2dnUVZ_q2dnZ2d@nethere.com>
Lines: 10
NNTP-Posting-Host: 66.63.131.65
X-Trace: sv3-QO9Y7YMbOLzkhA7dmd/
cGDun7leCiV+v8NYPYMDZmsQB7t+NLuTKui4tngolJL7zbucHW/prMTRHc+Y!TwiEm/
OI1tmWRMRTJeVv9dj0hiOEy3SXJajzYhHbOz44cL9oFOdA3C50k+AAo2t0MsppjeJ2LRKr!
sVEtGIwL5O4=
X-Complaints-To: abuse@nethere.com
X-DMCA-Complaints-To: abuse@nethere.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.crafts.metalworking:91496
rec.radio.amateur.homebrew:6873 rec.radio.amateur.equipment:6093

I thought all of the carbon/zinc type batteries had negative cases. The little button on the top is the positive contact for the battery and the other end is essentially flat on most batteries today with some having a stamped bottom and sides in contact.

--
Yeppie, Bush is such an idiot that He usually outwits
everybody else. How dumb!

From -2865562572637439883
X-Google-Thread: fc2a5,d52fa1518d02ff00
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newsfeed00.sul.t-online.de!t-online.de!news.nask.pl!
news.nask.org.pl!uw.edu.pl!lublin.pl!news.lublin.pl!not-for-mail
From: jason@pismo.com (Ida)
Newsgroups: rec.radio.amateur.homebrew
Subject: My homepage
Date: Tue, 12 Sep 2006 22:31:32 +0000 (UTC)
Organization: not organized
Lines: 4
Message-ID: <ee7cfp$6d3$1@news.lublin.pl>
References: <1154757800.512447.58910@i3g2000cwc.googlegroups.com>
NNTP-Posting-Host: eter.ariadna.cd
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-15

```
Content-Transfer-Encoding: 8bit
X-Trace: news.lublin.pl 1158100292 6563 212.182.111.250 (12 Sep 2006 22:31:32 GMT)
X-Complaints-To: abuse@news.lublin.pl
NNTP-Posting-Date: Tue, 12 Sep 2006 22:31:32 +0000 (UTC)
User-Agent: NewsPortal 0.24pre9, http://florian-amrhein.de/newsportal/
X-HTTP-Posting-Host: 12.175.230.55
Xref: g2news2.google.com rec.radio.amateur.homebrew:6874

Nice site!
[url=http://glckwesh.com/ejlo/vrrx.html]My homepage[/url] |
[url=http://ugwlsvgm.com/xows/cuab.html]Cool site[/url]



From -7527848324852654693
X-Google-Thread: fc2a5,d52fa1518d02ff00
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!news.nask.pl!
news.nask.org.pl!lublin.pl!news.lublin.pl!not-for-mail
From: raymond@pismo.com (Ingrid)
Newsgroups: rec.radio.amateur.homebrew
Subject: My homepage
Date: Tue, 12 Sep 2006 22:31:37 +0000 (UTC)
Organization: not organized
Lines: 4
Message-ID: <ee7cg9$6db$1@news.lublin.pl>
References: <1154757800.512447.58910@i3g2000cwc.googlegroups.com>
NNTP-Posting-Host: eter.ariadna.cd
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-15
Content-Transfer-Encoding: 8bit
X-Trace: news.lublin.pl 1158100297 6571 212.182.111.250 (12 Sep 2006 22:31:37 GMT)
X-Complaints-To: abuse@news.lublin.pl
NNTP-Posting-Date: Tue, 12 Sep 2006 22:31:37 +0000 (UTC)
User-Agent: NewsPortal 0.24pre9, http://florian-amrhein.de/newsportal/
X-HTTP-Posting-Host: 246.67.232.72.reverse.layeredtech.com
Xref: g2news2.google.com rec.radio.amateur.homebrew:6875

Thank you!
<a href="http://glckwesh.com/ejlo/vrrx.html">My homepage</a> | <a
href="http://vkcvuyxz.com/vdmv/zwko.html">Please visit</a>



From -3434779963797952529
X-Google-Thread: fc2a5,d52fa1518d02ff00
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!news.glorb.com!
newsfeed.pionier.net.pl!news.nask.pl!news.nask.org.pl!lublin.pl!news.lublin.pl!
not-for-mail
From: dean@mail.com (Janice)
```

```
Newsgroups: rec.radio.amateur.homebrew
Subject: My homepage
Date: Tue, 12 Sep 2006 22:31:45 +0000 (UTC)
Organization: not organized
Lines: 3
Message-ID: <ee7cgh$6dg$1@news.lublin.pl>
References: <1154757800.512447.58910@i3g2000cwc.googlegroups.com>
NNTP-Posting-Host: eter.ariadna.cd
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-15
Content-Transfer-Encoding: 8bit
X-Trace: news.lublin.pl 1158100305 6576 212.182.111.250 (12 Sep 2006 22:31:45 GMT)
X-Complaints-To: abuse@news.lublin.pl
NNTP-Posting-Date: Tue, 12 Sep 2006 22:31:45 +0000 (UTC)
User-Agent: NewsPortal 0.24pre9, http://florian-amrhein.de/newsportal/
X-HTTP-Posting-Host: 203.113.13.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:6876
```

Great work!
http://glckwesh.com/ejlo/vrrx.html | http://jarvtuvk.com/rxpn/rila.html

```
From 5618977486307466064
X-Google-Thread: fc2a5,9520844e5f23670f
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller2.gnilink.net!gnilink.net!trndny09.POSTED!f4075951!not-for-mail
From: nospam@nouce.bellatlantic.net
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: Intermediate Frequency
Message-ID: <d3deg2p0grmis0bq8cectig0s82dqork6u@4ax.com>
References: <1157660239.048126.59500@e3g2000cwe.googlegroups.com>
<1157677471.049917.187520@m73g2000cwd.googlegroups.com>
<12g1vm8jkmdoi23@corp.supernews.com>
<1157746099.402074.108200@e3g2000cwe.googlegroups.com>
<4502c78c$0$5155$9b4e6d93@newsspool1.arcor-online.net>
<1157842543.577546.103170@m73g2000cwd.googlegroups.com>
<450703aa$0$18483$9b4e6d93@newsspool3.arcor-online.net>
<1158093298.251749.110820@e3g2000cwe.googlegroups.com>
X-Newsreader: Forte Free Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 65
Date: Tue, 12 Sep 2006 22:51:43 GMT
NNTP-Posting-Host: 68.160.6.78
X-Complaints-To: abuse@verizon.net
X-Trace: trndny09 1158101503 68.160.6.78 (Tue, 12 Sep 2006 18:51:43 EDT)
NNTP-Posting-Date: Tue, 12 Sep 2006 18:51:43 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:6877
```

On 12 Sep 2006 13:34:58 -0700, "MadEngineer" <glenn.b.dixon@gmail.com>
wrote:

>
>Henry Kiefer wrote:
>
>> So the phase shifter is NOT for flatten the group delay variance (source is
>> the Tayloe mixer low-pass)?
>If I understand your question correctly, that is true. The IQ output
>from the Tayloe mixer (or any IQ mixer) is not upper and lower
>sideband. To get those you must do further signal processing, which
>usually involves shifting the I and Q channels ninety
>degress with respect to each other then summing or subtracting the
>channels depending on which sideband you want.
>
>>Is multiplying I with Q enougth to demodulate FM as in a quadrature
>>demodulator?
>>I cannot find a suitable theory page to look for.
>
>I can't either. The IQ signals multiplied do not make an FM quadrature
>detector as the phase does not really shift much over the NBFM
>bandwidth. There may be a clever way to extract FM more direcly from
>the IQ channels without first detecting a sideband, but I don't know
>it.

FM the problem is not responding to amplitude changes but frequency
changes. So any system that can count and measure frequency and
render a pattern based on changing frequency.

Synthetic PLL or simple a software PLL. would do it.
The synthethetic PLL approach means a software oscillator locked
to a varying frequency external signal. The error word generated is
the demodulated signal (apply to D/A or use raw).

>> How much dynamic range do I need? I thought about 100dB?
>> If I recall theory I loss 2dB if limiting the signal to remove AM
sensitivy.techniques,

Dynamic range is one of those the more the better but, many things
like noise eat away at it. These days a radio with >80db is good
and >90DB excellent, 100 Db is attainable.

>You need good dynamic range up to the limiter.

You need good dynamic range up to the first selectivity that can
remove offending close in signals.

Then you can limit hard. If you limit before or without adaquate
selectivity you will have intermodulation problems.

> This can be done with
>analog circuits as discussed. After the limiter an A/D converter is

>not even needed in theory--a fast-running timer hooked to a digital
>port could do the trick. I don't remember any loss by removing AM in
>the limiter (since all the the information is contained in the
>frequency of the signal), but my theory is in the distant past, back
>when FM meant 'funny math'.

If the signal is limited then zero crossings are enough. That could
be expressed as 1bit.   Your now working in the time/frequency
domain.

Allison

From -2950146091584017230
X-Google-Thread: fc2a5,8b0f75f6aac92460,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread1.news.pas.earthlink.net.POSTED!48f431e9!not-for-mail
From: "SNOWDEN" <snowden@peoplepc.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: 4-400 on 6 meters ?
Lines: 7
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <8dHNg.6868$v%4.777@newsread1.news.pas.earthlink.net>
Date: Tue, 12 Sep 2006 23:16:20 GMT
NNTP-Posting-Host: 4.245.60.48
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1158102980 4.245.60.48 (Tue, 12 Sep 2006 16:16:20 PDT)
NNTP-Posting-Date: Tue, 12 Sep 2006 16:16:20 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.homebrew:6878

Anyone been successful in building an amplifier at 6 meters? I have a
couple and was thinking about trying it.

Doug N4IJ

From 3882996804389517786
X-Google-Thread: fc2a5,d52fa1518d02ff00

```
X-Google-Attributes: gidfc2a5,public
X-Google-Language: GERMAN,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news2.volia.net!news.germany.com!
news.nask.pl!news.nask.org.pl!uw.edu.pl!lublin.pl!news.lublin.pl!not-for-mail
From: tammy@pochta.com (Jody)
Newsgroups: rec.radio.amateur.homebrew
Subject: My homepage
Date: Tue, 12 Sep 2006 23:32:00 +0000 (UTC)
Organization: not organized
Lines: 4
Message-ID: <ee7g1g$9sq$1@news.lublin.pl>
References: <1154757800.512447.58910@i3g2000cwc.googlegroups.com>
NNTP-Posting-Host: eter.ariadna.cd
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-15
Content-Transfer-Encoding: 8bit
X-Trace: news.lublin.pl 1158103920 10138 212.182.111.250 (12 Sep 2006 23:32:00
GMT)
X-Complaints-To: abuse@news.lublin.pl
NNTP-Posting-Date: Tue, 12 Sep 2006 23:32:00 +0000 (UTC)
User-Agent: NewsPortal 0.24pre9, http://florian-amrhein.de/newsportal/
X-HTTP-Posting-Host: 61.189.240.196
Xref: g2news2.google.com rec.radio.amateur.homebrew:6879

Nice site!
[url=http://chumqthp.com/wctv/idof.html]My homepage[/url] |
[url=http://wmtiqbgv.com/vijt/kvsy.html]Cool site[/url]




From -2657091702984767521
X-Google-Thread: fc2a5,d52fa1518d02ff00
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!news.nask.pl!
news.nask.org.pl!lublin.pl!news.lublin.pl!not-for-mail
From: roy@pisem.net (Jack)
Newsgroups: rec.radio.amateur.homebrew
Subject: My homepage
Date: Tue, 12 Sep 2006 23:32:21 +0000 (UTC)
Organization: not organized
Lines: 4
Message-ID: <ee7g25$9tc$1@news.lublin.pl>
References: <1154757800.512447.58910@i3g2000cwc.googlegroups.com>
NNTP-Posting-Host: eter.ariadna.cd
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-15
Content-Transfer-Encoding: 8bit
X-Trace: news.lublin.pl 1158103941 10156 212.182.111.250 (12 Sep 2006 23:32:21
GMT)
X-Complaints-To: abuse@news.lublin.pl
NNTP-Posting-Date: Tue, 12 Sep 2006 23:32:21 +0000 (UTC)
User-Agent: NewsPortal 0.24pre9, http://florian-amrhein.de/newsportal/
```

```
X-HTTP-Posting-Host: 8h199.xjtu.edu.cn
Xref: g2news2.google.com rec.radio.amateur.homebrew:6880

Great work!
<a href="http://chumqthp.com/wctv/idof.html">My homepage</a> | <a
href="http://dfidzvpt.com/iowh/zbmo.html">Please visit</a>




From -4827776432153038612
X-Google-Thread: fc2a5,d52fa1518d02ff00
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news.germany.com!news.nask.pl!
news.nask.org.pl!lublin.pl!news.lublin.pl!not-for-mail
From: dawn@yahoo.com (Kathy)
Newsgroups: rec.radio.amateur.homebrew
Subject: My homepage
Date: Tue, 12 Sep 2006 23:32:25 +0000 (UTC)
Organization: not organized
Lines: 3
Message-ID: <ee7g29$9tj$1@news.lublin.pl>
References: <1154757800.512447.58910@i3g2000cwc.googlegroups.com>
NNTP-Posting-Host: eter.ariadna.cd
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-15
Content-Transfer-Encoding: 8bit
X-Trace: news.lublin.pl 1158103945 10163 212.182.111.250 (12 Sep 2006 23:32:25
GMT)
X-Complaints-To: abuse@news.lublin.pl
NNTP-Posting-Date: Tue, 12 Sep 2006 23:32:25 +0000 (UTC)
User-Agent: NewsPortal 0.24pre9, http://florian-amrhein.de/newsportal/
X-HTTP-Posting-Host: 203.113.13.4
Xref: g2news2.google.com rec.radio.amateur.homebrew:6881

Great work!
http://chumqthp.com/wctv/idof.html | http://foomkgig.com/hupt/pbyu.html




From 2040358179104814204
X-Google-Thread: 1060db,a8d1eae57f8c0c91
X-Google-Thread: fc2a5,a8d1eae57f8c0c91
X-Google-Thread: 108122,a8d1eae57f8c0c91
X-Google-Attributes: gid1060db,gidfc2a5,gid108122,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.75.MISMATCH!hwmnpeer01.lga!news.highwinds-media.com!hw-filter.lga!
newsfe10.lga.POSTED!53ab2750!not-for-mail
Message-ID: <4507557D.5090901@hotmail.com>
From: JJ <jamesevns75@hotmail.com>
Organization: CMDF
```

```
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.7.2) Gecko/
20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups:
rec.crafts.metalworking,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: Re: Overheating AA batteries
References: <tqe4g2hadr1e42ehb3nlida53gnt25d53d@4ax.com>
<EdFMg.30957$ry2.6768@bignews3.bellsouth.net>
<34c6g2pv3c1iktjatf4sfsrfk1mkj69chg@4ax.com>
<mJqdnayywZfPvJvYnZ2dnUVZ_r2dnZ2d@comcast.com>
<sK6dncYRL5WYtprYnZ2dnUVZ_q2dnZ2d@nethere.com>
In-Reply-To: <sK6dncYRL5WYtprYnZ2dnUVZ_q2dnZ2d@nethere.com>
Content-Type: multipart/alternative;
 boundary="------------000804030603010302090600"
Lines: 67
X-Complaints-To: abuse@cv.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
imbefnlfhnmagonhijjdnojopddcmjimhkdkpfjnlgflhceioappennnphngbbbkjfialhaocjgcejckcb
oklfhhenbdcpkfihpanchcakojjmfondgonajkcfgnaomohgindeflifgphkdl
NNTP-Posting-Date: Tue, 12 Sep 2006 17:48:48 MST
Date: Tue, 12 Sep 2006 20:49:01 -0400
Xref: g2news2.google.com rec.crafts.metalworking:91530
rec.radio.amateur.homebrew:6882 rec.radio.amateur.equipment:6097

This is a multi-part message in MIME format.
--------------000804030603010302090600
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Sorry,  but I JUST have to ask,   Are you the Bob May who was on that
TV show ( in that "suit")  in the late 1960's??

73




Bob May wrote:

>I thought all of the carbon/zinc type batteries had negative cases.  The
>little button on the top is the positive contact for the battery and the
>other end is essentially flat on most batteries today with some having a
>stamped bottom and sides in contact.
>
>--
>Yeppie, Bush is such an idiot that He usually outwits
>everybody else.  How dumb!
>
>
>
>
```

```
--------------000804030603010302090600
Content-Type: text/html; charset=us-ascii
Content-Transfer-Encoding: 7bit

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
  <meta content="text/html;charset=ISO-8859-1" http-equiv="Content-Type">
  <title></title>
</head>
<body bgcolor="#ffffff" text="#000000">
Sorry,&nbsp; but I <b>JUST</b> have to ask,&nbsp;&nbsp; Are you the Bob May who
was
on that<br>
TV show ( in that "suit")&nbsp; in the late 1960's??<br>
<br>
73<br>
<br>
<br>
<br>
Bob May wrote:<br>
<blockquote cite="midsK6dncYRL5WYtprYnZ2dnUVZ_q2dnZ2d@nethere.com"
 type="cite">
  <pre wrap="">I thought all of the carbon/zinc type batteries had negative cases.
The
little button on the top is the positive contact for the battery and the
other end is essentially flat on most batteries today with some having a
stamped bottom and sides in contact.

--
Yeppie, Bush is such an idiot that He usually outwits
everybody else.  How dumb!


  </pre>
</blockquote>
<br>
</body>
</html>

--------------000804030603010302090600--


From 7873028448620922494
X-Google-Thread: fc2a5,8b0f75f6aac92460
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.bright.net!
news.bright.net.POSTED!not-for-mail
NNTP-Posting-Date: Tue, 12 Sep 2006 21:17:37 -0500
Message-ID: <45076A40.2030602@bloomer.net>
```

Date: Wed, 13 Sep 2006 02:17:36 +0000
From: Scott <acepilot@bloomer.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.7.2) Gecko/20040804 Netscape/7.2 (ax)
X-Accept-Language: en-us, en
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
To: SNOWDEN <snowden@peoplepc.com>
Subject: Re: 4-400 on 6 meters ?
References: <8dHNg.6868$v%4.777@newsread1.news.pas.earthlink.net>
In-Reply-To: <8dHNg.6868$v%4.777@newsread1.news.pas.earthlink.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 17
NNTP-Posting-Host: 64.33.199.218
X-Trace: sv3-2E658y50uc8vKQE7TuIqa7olH8Zr/mi6LNBtiPG1cX66rMIAyCoghKBpKlCchPcYzx6LATu3Lgx27vZ!MyhB30uvHEY+caDk46pKfYK2gZnmCAXQZ4wZCy1OK6pH06OhsmqoN4xHFUwNL+6FJQ==
X-Complaints-To: abuse@bright.net
X-DMCA-Complaints-To: abuse@bright.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:6883

Should work just fine. I haven't done it, but I do have a 4-400 and am thinking about just what you propose.

See:
http://www.g8wrb.org/data/Eimac/4-400A.pdf

Scott
N0EDV

SNOWDEN wrote:
> Anyone been successful in building an amplifier at 6 meters? I have a
> couple and was thinking about trying it.
>
> Doug N4IJ
>
>
>

From 7031937489154770406
X-Google-Thread: f64c6,1056794cea986c2b
X-Google-Thread: fc2a5,1056794cea986c2b
X-Google-Attributes: gidf64c6,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!199.218.7.141!news.glorb.com!sn-xt-sjc-05!sn-xt-sjc-01!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail

From: "Roger (K8RI)" <ValidAddress@my.com>
Newsgroups: uk.radio.amateur,rec.radio.amateur.homebrew
Subject: Re: Where does the expertise of today's Radio Ham lie?
Date: Tue, 12 Sep 2006 22:28:23 -0400
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <m0qeg2hficu5obq3ifdn05i7q21bdpbpcl@4ax.com>
References: <eduiu9$ljh$1@emma.aioe.org>
<QdBMg.16258$r61.3611@text.news.blueyonder.co.uk> <A8DMg.23891$DB3.19312@newsfe6-gui.ntli.net>
X-Newsreader: Forte Agent 4.0/32.1071
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 57
Xref: g2news2.google.com uk.radio.amateur:51755 rec.radio.amateur.homebrew:6884

On Sat, 09 Sep 2006 17:49:20 GMT, "Brian Reay" <see@website.invalid> wrote:

>
>"Steve" <g8izy@blueyonder.co.uk> wrote in message
>news:QdBMg.16258$r61.3611@text.news.blueyonder.co.uk...
>
>> I might suggest that construction of aerials, amplifiers etc., and the
>> knowledge to predict propagation modes and then utilise that knowledge to
>> make contacts with people far away is just as valid as knowing one end of
>> a resistor from the other.

That's simple. One end is the goesinto while the other is the goesouttta unless you hook it up backwards. Then due to great foresight from the engineers the two ends will automatically swap functions making the device appear to be bidirectional.

>>
>> Or a multitude of other reasons why people become radio amateurs given
>> that this is such a diverse hobby.
Some of us use it for exercise:
http://www.rogerhalstead.com/ham_files/Tower29.htm

Or the whole project http://www.rogerhalstead.com/ham_files/tower.htm

Although I've been known to use the exercise excuse so I can put up more antennas. Unfortunatley I have to get the 144 and 440 arrays down. I already have the mast down to about the 6-meter yagi and have rebuilt the PST-61 rotator.
>
>Good advice Steve. There are even people who buy s/h homebrew equipment (eg
>a QRP radio) at rallies and probably take great delight in using it.

Lets see... My first home brew rig was about 90 Watts with a pair of 6L6s and a 6AG7 oscillator. Not exactly QRP. The next home brew projct was a 6C21 HF amp (those things are big) and then a pair of

813s. on HF. Both home brew but a long way from QRP with the exception of the time when I blew the plate out of a 6C21 and it turned into a dummy load. I wish I still had that thing if for nothing more than a conversation piece.

OTOH there is a fair amount of HF QRP around this area (Central Michigan) with some of the rigs getting fairly sophisticated.

There is a lot of developmet work going on in digital here. The local system can broadcast the latest RADAR to the laptops of those of us out storm chasing. APRS (if set up in the car) gives your coordinates back to the EOC. They are working on a portable TV Repeater for a number of reasons in addition to being used for damage assesment.

There's also the networking of packet, repeaters, and the internet.

We have ham stations in both the EOC and the mobile EOC unit. There was talk of adding HF ham stations to both locations.
Roger Halstead (K8RI & ARRL life member)
(N833R, S# CD-2 Worlds oldest Debonair)
www.rogerhalstead.com

From 3508462289079832156
X-Google-Thread: fc2a5,8b0f75f6aac92460
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!sn-xt-sjc-04!sn-xt-sjc-09!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Roger (K8RI)" <ValidAddress@my.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 4-400 on 6 meters ?
Date: Tue, 12 Sep 2006 22:33:39 -0400
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <0creg2tuibc85e4bfant4vv04huof5rjf2@4ax.com>
References: <8dHNg.6868$v%4.777@newsread1.news.pas.earthlink.net>
X-Newsreader: Forte Agent 4.0/32.1071
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
Lines: 22
Xref: g2news2.google.com rec.radio.amateur.homebrew:6885

On Tue, 12 Sep 2006 23:16:20 GMT, "SNOWDEN" <snowden@peoplepc.com> wrote:

>Anyone been successful in building an amplifier at 6 meters? I have a
>couple and was thinking about trying it.

I've not seen a 4-400 amp on six,, but they are rated to 110 MHz and the book shows just shy of the legal limit out at 75 MHz.

I don't know how difficult the'd be to neutralize.
Sounds like fun and I think they'd be a better tube for six than
3-400s or 3-500s.

Good luck,

>
>Doug N4IJ
>
>
Roger Halstead (K8RI & ARRL life member)
(N833R, S# CD-2 Worlds oldest Debonair)
www.rogerhalstead.com

From 3158705541976351005
X-Google-Thread: 1060db,a8d1eae57f8c0c91
X-Google-Thread: fc2a5,a8d1eae57f8c0c91
X-Google-Thread: 108122,a8d1eae57f8c0c91
X-Google-Attributes: gid1060db,gidfc2a5,gid108122,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!pln-e!spln!rex!
extra.newsguy.com!newsp.newsguy.com!not-for-mail
From: dnichols@d-and-d.com (DoN. Nichols)
Newsgroups:
rec.crafts.metalworking,rec.radio.amateur.homebrew,rec.radio.amateur.equipment
Subject: Re: Overheating AA batteries
Date: 13 Sep 2006 02:55:26 GMT
Organization: D & D Data, Vienna, VA
Lines: 35
Message-ID: <ee7ruu02ggg@news3.newsguy.com>
References: <tqe4g2hadr1e42ehb3nlida53gnt25d53d@4ax.com>
<34c6g2pv3c1iktjatf4sfsrfk1mkj69chg@4ax.com>
<mJqdnayywZfPvJvYnZ2dnUVZ_r2dnZ2d@comcast.com>
<sK6dncYRL5WYtprYnZ2dnUVZ_q2dnZ2d@nethere.com>
Reply-To: dnichols@d-and-d.com (Donald Nichols)
NNTP-Posting-Host: p-339.newsdawg.com
X-Newsreader: trn 4.0-test76 (Apr 2, 2001)
Originator: dnichols@d-and-d.com (DoN. Nichols)
Xref: g2news2.google.com rec.crafts.metalworking:91559
rec.radio.amateur.homebrew:6886 rec.radio.amateur.equipment:6100

According to Bob May <bobmay@nethere.com>:
> I thought all of the carbon/zinc type batteries had negative cases.

Most did -- but the zinc/carbon individual cells are relatively rare now. An example of the zinc-carbon ones without a negative case are the ones which were used to make high voltage batteries (even the 9V ones) were a wax ring (shaped sort of like a tire) with a zinc plate at one end and carbon at the other, with the sal-ammoniac (IIRC) in between. All of the wax rings were joined end to end by melting the wax, and this connected all the cells in series.

> The
> little button on the top is the positive contact for the battery and the
> other end is essentially flat on most batteries today with some having a
> stamped bottom and sides in contact.

The "little button on the top" was a metal cap over the end of the central carbon rod which was the actual positive terminal.

However, the Alkaline cells use a different chemistry (I'm not sure of the details -- but it could be looked up), and the positive terminal makes the case -- which requires a strange form factor to deal with all the equipment designed to orient the button properly as a positive terminal. A standard flashlight would not care, but most electronic stuff powered by batteries does care, which is why they continue to shape things so the button is positive, even if it is connected to the case. The common coin cells are different, because there were never any of those with the button as positive.

Enjoy,
DoN.

```
--
 Email:   <dnichols@d-and-d.com>   | Voice (all times): (703) 938-4564
     (too) near Washington D.C. | http://www.d-and-d.com/dnichols/DoN.html
           --- Black Holes are where God is dividing by zero ---
```

```
From -1584884031435159184
X-Google-Thread: fc2a5,65276ca3e719dcab,start
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news.maxwell.syr.edu!news.glorb.com!feed.cgocable.net!news.sprintnetops.net!news.cse.sc.edu!ken-transit.news.telstra.net!lon-in.news.telstra.net!news.telstra.net!news-server.bigpond.net.au!53ab2750!not-for-mail
From: David <websales@orbitcoms.com>
Reply-To:  websales@orbitcoms.com
User-Agent: Thunderbird 1.5.0.5 (Windows/20060719)
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: HP8405A source
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 10
Message-ID: <phONg.28121$rP1.3577@news-server.bigpond.net.au>
Date: Wed, 13 Sep 2006 07:18:45 GMT
NNTP-Posting-Host: 143.238.97.199
X-Complaints-To: abuse@bigpond.net.au
X-Trace: news-server.bigpond.net.au 1158131925 143.238.97.199 (Wed, 13 Sep 2006 17:18:45 EST)
NNTP-Posting-Date: Wed, 13 Sep 2006 17:18:45 EST
Organization: BigPond Internet Services
Xref: g2news2.google.com rec.radio.amateur.homebrew:6887
```

Anyone know where I might get HP8405A vector voltmeter
in Australia or nearby ?

Or alternate meter for measuring impedance to 500 MHz

Thanks

Regards

David

```
From 4259582417993159506
X-Google-Thread: fc2a5,8b0f75f6aac92460
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.pipex.net!
news.pipex.net.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 13 Sep 2006 07:09:43 -0500
Date: Wed, 13 Sep 2006 13:09:43 +0100
From: Highland Ham <abcgm0csz.kn6whxyz@dsl.pipex.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.6) Gecko/
20060729 SeaMonkey/1.0.4
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 4-400 on 6 meters ?
References: <8dHNg.6868$v%4.777@newsread1.news.pas.earthlink.net>
<0creg2tuibc85e4bfant4vv04huof5rjf2@4ax.com>
In-Reply-To: <0creg2tuibc85e4bfant4vv04huof5rjf2@4ax.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <Co2dnYDQlpOaaJrYRVnyrQ@pipex.net>
Lines: 34
NNTP-Posting-Host: 81.178.254.145
X-Trace: sv3-
vBIJfh9IM+k63bLKZvBZorCCKDQYQXUKTFj31PEajQGjWsTTGMrdwggMd+cu2qxaVetKKLCMb6W22nB!
5MRo6Sx0eu4TCSQjSfF8o2+aV8OS23rU/oi1oXuFrwGaqNPda1/tOXiBQHSvUacPK5WLlPRpHtug!
iIdlILI/EFajtA==
X-Complaints-To: abuse@dsl.pipex.net
X-DMCA-Complaints-To: abuse@dsl.pipex.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.homebrew:6888
```

Roger (K8RI) wrote:

> On Tue, 12 Sep 2006 23:16:20 GMT, "SNOWDEN" <snowden@peoplepc.com>
> wrote:
>
>> Anyone been successful in building an amplifier at 6 meters? I have a
>> couple and was thinking about trying it.

>
> I've not seen a 4-400 amp on six,, but they are rated to 110 MHz and the book shows just shy of the legal limit out at 75 MHz.
>
> I don't know how difficult the'd be to neutralize.
> Sounds like fun and I think they'd be a better tube for six than 3-400s or 3-500s.

=====================================

Up to the mid 1970s type 4-400 transmitting valves (tubes) were used in the UK in Band 1 (approx 45-65 MHz)TV transmitters.
For a 7 kWatts area transmitter there were 7 chassis of 2 valves each.
So they should be excellent for the 50 MHz amateur band.

A very early design can be found in QST March 1967 ,pages 11 - 15.
Titled : Six-Meter Kilowatt with 4-400As or4-125As.

The design involves 2 valves (tubes) in push-pull config.

Although push pull RF Power Amps are nowadays no longer or not frequently used , I feel it is still interesting reading and might give some ideas for a homebrew amplifier.

If you can't find the article , I can send you a scanned copy of the 5 pages.

To email me remove the obvious chars from the above address.

Frank   GM0CSZ / KN6WH

```
From 4470810509365003161
X-Google-Thread: 108122,33ce63f8dc94b9b5,start
X-Google-Thread: fc2a5,33ce63f8dc94b9b5,start
X-Google-Thread: 10bf43,33ce63f8dc94b9b5,start
X-Google-Thread: 114aac,33ce63f8dc94b9b5,start
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,gid114aac,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx02.iad01.newshosting.com!
newshosting.com!news.alt.net!news-out.readnews.com!spool-big1.readnews.com!
diablo3.voicenet.com!snip.allthenewsgroups.com!not-for-mail
Reply-To: "Rodnay" <purple5golftee@yahoo.nosp.com>
From: "Rodnay" <purple5golftee@yahoo.nosp.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,re
c.radio.shortwave
Subject: PayPal horror stories
Date: Wed, 13 Sep 2006 11:05:15 -0400
Lines: 6
Organization: it's Roooooooooooodney!
MIME-Version: 1.0
Content-Type: text/plain;
     charset="Windows-1252"
```

```
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2800.1478
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1478
Message-ID: <1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com>
X-Complaints-To: abuse@allthenewsgroups.com
NNTP-Posting-Host: sarc3b-209-204-89-86.sniparpa.net
X-Trace: 1f7e0450829667469fcf322166
Xref: g2news2.google.com rec.radio.amateur.equipment:6118
rec.radio.amateur.homebrew:6889 rec.radio.amateur.policy:44409
rec.radio.shortwave:52649

A new site with dozens of horror stories from
people who've done business using Paypal

http://www.paypalwarning.com/

PayPal is just like POISON IVY --------> don't touch it with a 12' pole.



From 7305322244867849548
X-Google-Thread: 10ed5f,b90c4a00d51cae34,start
X-Google-Thread: 109b94,b90c4a00d51cae34,start
X-Google-Thread: fcc6e,b90c4a00d51cae34,start
X-Google-Thread: fc2a5,b90c4a00d51cae34,start
X-Google-Attributes: gid10ed5f,gid109b94,gidfcc6e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!peer01.cox.net!cox.net!p01!
fed1read08.POSTED!53ab2750!not-for-mail
From: "AAA RF Products" <sales@aaarfproducts.com>
Newsgroups: alt.ham-
radio,rec.boats.electronics,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Coax Connectors & Adapters - High Quality@ Low Cost
Lines: 3
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <mxWNg.20259$RD.1342@fed1read08>
Date: Wed, 13 Sep 2006 09:43:32 -0700
NNTP-Posting-Host: 64.58.166.244
X-Complaints-To: abuse@cox.net
X-Trace: fed1read08 1158165714 64.58.166.244 (Wed, 13 Sep 2006 12:41:54 EDT)
NNTP-Posting-Date: Wed, 13 Sep 2006 12:41:54 EDT
Organization: Cox Communications
Xref: g2news2.google.com alt.ham-radio:1211 rec.boats.electronics:3827
rec.radio.amateur.antenna:18290 rec.radio.amateur.homebrew:6890

Please see www.aaarfproducts.com
```

```
From -8769780694133901489
X-Google-Thread: 108122,33ce63f8dc94b9b5
X-Google-Thread: fc2a5,33ce63f8dc94b9b5
X-Google-Thread: 10bf43,33ce63f8dc94b9b5
X-Google-Thread: 114aac,33ce63f8dc94b9b5
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,gid114aac,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!p79g2000cwp.googlegroups.com!not-for-
mail
From: "kb9rqz-2@hotmail.com" <kb9rqz-2@hotmail.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,re
c.radio.shortwave
Subject: =?iso-8859-1?q?woger_try_http://www.mipsor.state.mi.us/=AD=ADmipsor?=
Date: 13 Sep 2006 10:29:45 -0700
Organization: http://groups.google.com
Lines: 5
Message-ID: <1158168585.357161.64530@p79g2000cwp.googlegroups.com>
References: <1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com>
NNTP-Posting-Host: 66.82.9.82
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158168590 22255 127.0.0.1 (13 Sep 2006 17:29:50 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 13 Sep 2006 17:29:50 +0000 (UTC)
In-Reply-To: <1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR
1.1.4322),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: p79g2000cwp.googlegroups.com; posting-host=66.82.9.82;
   posting-account=a7K0SA0AAADJhiRpuowwQAePXZnEQc8e
Xref: g2news2.google.com rec.radio.amateur.equipment:6123
rec.radio.amateur.homebrew:6891 rec.radio.amateur.policy:44434
rec.radio.shortwave:52675


Rodnay wrote:
>
just burying the spam




From -6672507396205828427
X-Google-Thread: 108122,33ce63f8dc94b9b5
X-Google-Thread: fc2a5,33ce63f8dc94b9b5
X-Google-Thread: 10bf43,33ce63f8dc94b9b5
X-Google-Thread: 114aac,33ce63f8dc94b9b5
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,gid114aac,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

```
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!news.glorb.com!newsfeed-
east.nntpserver.com!nntpserver.com!statler.nntpserver.com!hydra.nntpserver.com!
not-for-mail
From: <Mark@kb9rqz.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,re
c.radio.shortwave
References: <1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com>
Subject: Re: PayPal horror stories
Date: Wed, 13 Sep 2006 13:41:55 -0400
Organization: Moron
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Lines: 14
Message-ID: <450835dc$0$19696$88260bb3@free.teranews.com>
NNTP-Posting-Date: 13 Sep 2006 16:46:26 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.equipment:6124
rec.radio.amateur.homebrew:6892 rec.radio.amateur.policy:44449
rec.radio.shortwave:52679


"Rodnay" <purple5golftee@yahoo.nosp.com> wrote in message
news:1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com...
>A new site with dozens of horror stories from
> people who've done business using Paypal
>
> http://www.paypalwarning.com/
>
> PayPal is just like POISON IVY --------> don't touch it with a 12' pole.
>
with the punce gotcha he wonders why I simple don't bother to ty impoving my
spelling do u hav anyting cognet two say?




--
Posted via a free Usenet account from http://www.teranews.com




From 2468518249598173483
X-Google-Thread: 108122,33ce63f8dc94b9b5
X-Google-Thread: fc2a5,33ce63f8dc94b9b5
X-Google-Thread: 10bf43,33ce63f8dc94b9b5
X-Google-Thread: 114aac,33ce63f8dc94b9b5
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,gid114aac,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
```

```
nntp.giganews.com!local02.nntp.dca.giganews.com!nntp.comcast.com!
news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Wed, 13 Sep 2006 12:52:14 -0500
Date: Wed, 13 Sep 2006 13:51:49 -0400
From: NoMoreSpam <Disgustedham@qrparci.org>
User-Agent: Thunderbird 1.5.0.5 (X11/20060719)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,re
c.radio.shortwave
Subject: Re: PayPal horror stories
References: <1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com>
In-Reply-To: <1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com>
Content-Type: text/plain; charset=windows-1252; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <3OCdnYbr1s_T2JXYnZ2dnUVZ_v-dnZ2d@comcast.com>
Lines: 10
NNTP-Posting-Host: 68.44.216.166
X-Trace: sv3-bpVB0FuNy9/
v7ksLGEQEhObgaeOL8TOnTALM6wweh+aNcilx0HefOdNU78qe1hbT3DqxEv7U4YcIg/a!
OYWwOBW2gNwPXYLaImc/PIJLYl6VcqB7ohe213B4xJNS336dLZdC8oH9I9FymJlSwfymzajdGMRQ!
s03zpgpBT6hMtaDZwxrZ
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.equipment:6125
rec.radio.amateur.homebrew:6893 rec.radio.amateur.policy:44450
rec.radio.shortwave:52681

Rodnay wrote:
> A new site with dozens of horror stories from
> people who've done business using Paypal
>
> http://www.paypalwarning.com/
>
> PayPal is just like POISON IVY --------> don't touch it with a 12' pole.

That site would be more convincing if it wasn't a come-on to use THEIR version
of "Paypal." Paypal is OK, IF you use common sense.


From 182087370170497316
X-Google-Thread: 10ed5f,b90c4a00d51cae34
X-Google-Thread: 109b94,b90c4a00d51cae34
X-Google-Thread: fcc6e,b90c4a00d51cae34
X-Google-Thread: fc2a5,b90c4a00d51cae34
X-Google-Attributes: gid10ed5f,gid109b94,gidfcc6e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!atl-
```

c08.usenetserver.com!news.usenetserver.com!pc03.usenetserver.com!KNOLOGY.NET-a2kHrUvQQWlmc!not-for-mail
Newsgroups: alt.ham-radio,rec.boats.electronics,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Coax Connectors & Adapters - High Quality@ Low Cost
From: Larry <noone@home.com>
References: <mxWNg.20259$RD.1342@fed1read08>
Organization: Nope
Message-ID: <Xns983D9409F222noonehomecom@208.49.80.253>
User-Agent: Xnews/5.04.25
X-Complaints-To: abuse@usenetserver.com
Date: Wed, 13 Sep 2006 14:32:30 -0400
Lines: 82
X-Trace: 2141545084ebebd73b3df04494
Xref: g2news2.google.com alt.ham-radio:1212 rec.boats.electronics:3829 rec.radio.amateur.antenna:18295 rec.radio.amateur.homebrew:6894

"AAA RF Products" <sales@aaarfproducts.com> wrote in news:mxWNg.20259$RD.1342@fed1read08:

> Please see www.aaarfproducts.com
>
>

Path: be02!atl-c01.usenetserver.com!news.usenetserver.com!atl-c02.usenetserver.com!news.usenetserver.com!peer01.cox.net!cox.net!p01!fed1read08.POSTED!53ab2750!not-for-mail
From: "AAA RF Products" <sales@aaarfproducts.com>
Newsgroups: alt.ham-radio,rec.boats.electronics,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Coax Connectors & Adapters - High Quality@ Low Cost
Lines: 3
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <mxWNg.20259$RD.1342@fed1read08>
Date: Wed, 13 Sep 2006 09:43:32 -0700
NNTP-Posting-Host: 64.58.166.244
X-Complaints-To: abuse@cox.net
X-Trace: fed1read08 1158165714 64.58.166.244 (Wed, 13 Sep 2006 12:41:54 EDT)
NNTP-Posting-Date: Wed, 13 Sep 2006 12:41:54 EDT
Organization: Cox Communications
Xref: usenetserver.com alt.ham-radio:118307 rec.boats.electronics:161754 rec.radio.amateur.antenna:332702 rec.radio.amateur.homebrew:199125
X-Received-Date: Wed, 13 Sep 2006 12:41:55 EDT (be02)

Please see www.aaarfproducts.com

Here's some information from Cox Communications you should be interested in, shortly:

"Newsgroups. Messages posted to newsgroups must comply with the written charters or FAQs for those newsgroups. Advertisements, solicitations, or other commercial messages should be posted only in those newsgroups whose charters or FAQs explicitly permit them. You are responsible for determining the policies of a given newsgroup before posting to it. Posting or cross-posting the same or substantially similar messages to more than eight newsgroups is prohibited. Our news software will automatically cancel any messages posted to nine or more newsgroups.

Binary files may not be posted to newsgroups not specifically named for that purpose. Users posting binary files to groups with policies concerning the permissible daily volume of posted files are required to observe those limitations.

You may not attempt to "flood" or disrupt Usenet newsgroups. Disruption is defined as posting a large number of messages to a newsgroup, which contain no substantive content, to the extent that normal discussion in the group is significantly hindered. Examples of disruptive activities include, but are not limited to, posting multiple messages with no text in the body, or posting many follow-ups to messages with no new text. Messages may not be canceled, except by the author or by official newsgroup moderators performing their duties. "

This is from their AUP on:
http://www.cox.com/policy/#Acceptable_Use_Policy

You'll find none of the newsgroups you spammed with this post allow commercial spam in their FAQs.....

Cox has our reports....This ISN'T your free advertising medium....

Your IP is easy to find:
NNTP-Posting-Host: 64.58.166.244
X-Complaints-To: abuse@cox.net
X-Trace: fed1read08 1158165714 64.58.166.244 (Wed, 13 Sep 2006 12:41:54 EDT)
NNTP-Posting-Date: Wed, 13 Sep 2006 12:41:54 EDT

Thank you for making this your LAST spam post!

--
There's amazing intelligence in the Universe.
You can tell because none of them ever called Earth.

From -1299708386051137684
X-Google-Thread: 108122,33ce63f8dc94b9b5
X-Google-Thread: fc2a5,33ce63f8dc94b9b5
X-Google-Thread: 10bf43,33ce63f8dc94b9b5
X-Google-Thread: 114aac,33ce63f8dc94b9b5

```
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,gid114aac,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news1.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!nx01.iad01.newshosting.com!
newshosting.com!69.28.186.75.MISMATCH!hwmnpeer01.lga!news.highwinds-media.com!hw-
filter.lga!newsfe03.lga.POSTED!53ab2750!not-for-mail
From: "Unrevealed Source" <unrevealed_source@nospam.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,re
c.radio.shortwave
References: <1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com>
Subject: Re: PayPal horror stories
Lines: 17
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Original
Message-ID: <AfYNg.57$wK4.27@newsfe03.lga>
X-Trace:
pgpdkimbbbabbbpeijjdnojopddcmjimfibfjnmmcnbnfldlhgnfefjilnhhefkkmhaddoglakalfejhag
lefaipcfgpejhoihpanchcakojjmfojcpbgjhepdadjkekhgindeflifgphkdl
NNTP-Posting-Date: Wed, 13 Sep 2006 11:39:28 MST
Date: Wed, 13 Sep 2006 14:38:36 -0400
Xref: g2news2.google.com rec.radio.amateur.equipment:6127
rec.radio.amateur.homebrew:6895 rec.radio.amateur.policy:44454
rec.radio.shortwave:52692
```

Never had a problem with Paypal. Ever. In fact, I generally don't bid on auctions UNLESS the seller takes Paypal.

Is it just a coincidence that this collection of horror stories is selling an alternative?

"Rodnay" <purple5golftee@yahoo.nosp.com> wrote in message
news:1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com...

```
>A new site with dozens of horror stories from
> people who've done business using Paypal
>
> http://www.paypalwarning.com/
>
> PayPal is just like POISON IVY --------> don't touch it with a 12' pole.
```

```
From -8736755227980096058
X-Google-Thread: fc2a5,240d14d42b84713,start
X-Google-Thread: 112d1e,240d14d42b84713,start
X-Google-Thread: 10b271,240d14d42b84713,start
X-Google-Attributes: gidfc2a5,gid112d1e,gid10b271,public
X-Google-Language: ENGLISH,ASCII-7-bit
```

Path: g2news2.google.com!postnews.google.com!e3g2000cwe.googlegroups.com!not-for-mail
From: billb@eskimo.com
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design,sci.physics
Subject: Carl and Jerry adventures, 1964 Pop Electronics
Date: 13 Sep 2006 13:41:13 -0700
Organization: http://groups.google.com
Lines: 27
Message-ID: <1158180072.943155.211630@e3g2000cwe.googlegroups.com>
NNTP-Posting-Host: 128.95.172.173
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158180078 7561 127.0.0.1 (13 Sep 2006 20:41:18 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 13 Sep 2006 20:41:18 +0000 (UTC)
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.6) Gecko/20060728 Firefox/1.5.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e3g2000cwe.googlegroups.com; posting-host=128.95.172.173;
   posting-account=CQ9PuAwAAAAoHVi7bjgRC2reWcC3o5Sl
Xref: g2news2.google.com rec.radio.amateur.homebrew:6896 sci.electronics.design:96887 sci.physics:139398

This from those guys who were making an online archive of old Popular Electronics mags:

Carl and Jerry stories (J. Frye, Pop Electronics 1954 - 1964)
http://home.gwi.net/~jdebell/pe/cj/cnjindex.htm

example:

"The Girl Detector"
http://home.gwi.net/~jdebell/pe/cj/v20-1.htm

Also another PE archive:

Pop. Electronics magazine covers and various projects, jpeg

http://www.swtpc.com/mholley/PopularElectronics/Popular_Electronics.htm

```
((((((((((((((((((((((( (  (     (o)     )  ) )))))))))))))))))))))))
William J. Beaty              http://staff.washington.edu/wbeaty/
Research Engineer             UW Chem Dept,  Bagley Hall RM74
beaty@chem.washington.edu     Box 351700, Seattle, WA 98195-1700
ph:206-543-6195 fax:206-685-8665
```

From 4108967686737192345
X-Google-Thread: 108122,33ce63f8dc94b9b5
X-Google-Thread: fc2a5,33ce63f8dc94b9b5
X-Google-Thread: 10bf43,33ce63f8dc94b9b5
X-Google-Thread: 114aac,33ce63f8dc94b9b5
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,gid114aac,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!i42g2000cwa.googlegroups.com!not-for-mail
From: "ve3..." <ve3iut@hotmail.com>
Newsgroups: rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.shortwave
Subject: Re: PayPal horror stories
Date: 13 Sep 2006 13:48:54 -0700
Organization: http://groups.google.com
Lines: 21
Message-ID: <1158180534.610502.290400@i42g2000cwa.googlegroups.com>
References: <1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com>
   <AfYNg.57$wK4.27@newsfe03.lga>
NNTP-Posting-Host: 67.70.196.125
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158180540 8763 127.0.0.1 (13 Sep 2006 20:49:00 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Wed, 13 Sep 2006 20:49:00 +0000 (UTC)
In-Reply-To: <AfYNg.57$wK4.27@newsfe03.lga>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98),gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: i42g2000cwa.googlegroups.com; posting-host=67.70.196.125;
   posting-account=KVnPjwwAAADUVFuqgrGOINnfYq1AbgCw
Xref: g2news2.google.com rec.radio.amateur.equipment:6130 rec.radio.amateur.homebrew:6897 rec.radio.amateur.policy:44462 rec.radio.shortwave:52703

Unrevealed Source wrote:
> Never had a problem with Paypal. Ever. In fact, I generally don't bid on
> auctions UNLESS the seller takes Paypal.
>
> Is it just a coincidence that this collection of horror stories is selling
> an alternative?
"""

Because of phishing, trojans, and other very smart crooks trying to get
into my account, and also because of Paypal complaints that are legion,
there is no way I would link up my main bank account with Paypal. When
I sell something on ebay, I request payment by a money order, when I
buy something on ebay I pay by money order. If the seller wants Paypal
only, I move on to the next listing. I have noticed that more and more
sellers are glad to accept money orders, especially individuals who are

selling their own stuff. I have had no problems with Paypal but there are just too many really clever scammers working the internet. I maintain a tiny account in a different bank to handle fees: if I do get hit by a crook, or by Paypal, the loot would only be about $5.00. In addition, in Canada, interbank money transfers are safe and inexpensive.

```
From 5967047499131168749
X-Google-Thread: fc2a5,240d14d42b84713
X-Google-Thread: 112d1e,240d14d42b84713
X-Google-Thread: 10b271,240d14d42b84713
X-Google-Attributes: gidfc2a5,gid112d1e,gid10b271,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news.glorb.com!news.litech.org!not-for-
mail
From: "Mike Andrews" <mikea@mikea.ath.cx>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design,sci.physics
Subject: Re: Carl and Jerry adventures, 1964 Pop Electronics
Date: Wed, 13 Sep 2006 20:58:18 +0000 (UTC)
Organization: Me?
Lines: 30
Sender: mikea@mikea.ath.cx
Message-ID: <ee9rda$pl1$1@puck.litech.org>
References: <1158180072.943155.211630@e3g2000cwe.googlegroups.com>
NNTP-Posting-Host: mikea.ath.cx
X-Trace: puck.litech.org 1158181098 26273 68.15.203.64 (13 Sep 2006 20:58:18 GMT)
X-Complaints-To: usenet@litech.org
NNTP-Posting-Date: Wed, 13 Sep 2006 20:58:18 +0000 (UTC)
X-Headers-Location: ~/.tin/headers
X-Added-By: x_headers=<X-Headers-Location>
X-Not-Approved: root@example.org
User-Agent: tin/1.5.15-20021115 ("Spiders") (UNIX) (FreeBSD/4.6-RELEASE (i386))
Xref: g2news2.google.com rec.radio.amateur.homebrew:6898
sci.electronics.design:96892 sci.physics:139401
```

In rec.radio.amateur.homebrew billb@eskimo.com wrote:

> This from those guys who were making an online archive of old Popular
> Electronics mags:

> Carl and Jerry stories (J. Frye, Pop Electronics 1954 - 1964)
> http://home.gwi.net/~jdebell/pe/cj/cnjindex.htm

> example:

> "The Girl Detector"
> http://home.gwi.net/~jdebell/pe/cj/v20-1.htm

> Also another PE archive:

> Pop. Electronics magazine covers and various projects, jpeg

> http://www.swtpc.com/mholley/PopularElectronics/Popular_Electronics.htm

OUTStanding!

Thanks very much indeed.

--
" ... the spammers are out there breeding like methamphetamine-crazed
rats on Viagra ... ."
-- Steve VanDevender, in the Monastery

```
From 7299634787064567962
X-Google-Thread: 108122,33ce63f8dc94b9b5
X-Google-Thread: fc2a5,33ce63f8dc94b9b5
X-Google-Thread: 10bf43,33ce63f8dc94b9b5
X-Google-Thread: 114aac,33ce63f8dc94b9b5
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,gid114aac,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!newshub.sdsu.edu!elnk-nf2-pas!
newsfeed.earthlink.net!stamper.news.pas.earthlink.net!
newsread1.news.pas.earthlink.net.POSTED!4e73252e!not-for-mail
From: "Richard W. Solomon, W1KSZ" <w1ksz@earthlink.net>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,re
c.radio.shortwave
Subject: Re: PayPal horror stories
Reply-To: w1ksz@earthlink.net
Message-ID: <6eugg2lhifqpomku6q6dpeol34h76n88rs@4ax.com>
References: <1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com>
X-Newsreader: Forte Free Agent 1.93/32.576 English (American)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 17
Date: Wed, 13 Sep 2006 21:37:40 GMT
NNTP-Posting-Host: 24.41.20.5
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread1.news.pas.earthlink.net 1158183460 24.41.20.5 (Wed, 13 Sep 2006
14:37:40 PDT)
NNTP-Posting-Date: Wed, 13 Sep 2006 14:37:40 PDT
Organization: EarthLink Inc. -- http://www.EarthLink.net
Xref: g2news2.google.com rec.radio.amateur.equipment:6134
rec.radio.amateur.homebrew:6899 rec.radio.amateur.policy:44465
rec.radio.shortwave:52711
```

One compelling reason to ONLY fund PayPal with a Credit Card that
will charge-back unauthorized activity and to request a check if you
have more than $20 in your account.
They cannot take what they don't have.

RS

On Wed, 13 Sep 2006 11:05:15 -0400, "Rodnay"
<purple5golftee@yahoo.nosp.com> wrote:

>A new site with dozens of horror stories from
>people who've done business using Paypal
>
>http://www.paypalwarning.com/
>
>PayPal is just like POISON IVY --------> don't touch it with a 12' pole.

From 4228772799833984085
X-Google-Thread: 108122,33ce63f8dc94b9b5
X-Google-Thread: fc2a5,33ce63f8dc94b9b5
X-Google-Thread: 10bf43,33ce63f8dc94b9b5
X-Google-Thread: 114aac,33ce63f8dc94b9b5
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,gid114aac,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!newsfeed-east.nntpserver.com!nntpserver.com!statler.nntpserver.com!hydra.nntpserver.com!not-for-mail
From: <Mark@kb9rqz.com>
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,rec.radio.shortwave
References: <1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com>
<AfYNg.57$wK4.27@newsfe03.lga>
<1158180534.610502.290400@i42g2000cwa.googlegroups.com>
Subject: Re: PayPal horror stories
Date: Wed, 13 Sep 2006 17:39:04 -0400
Organization: Moron
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Lines: 30
Message-ID: <45086d6e$0$19712$88260bb3@free.teranews.com>
NNTP-Posting-Date: 13 Sep 2006 20:43:26 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.equipment:6135
rec.radio.amateur.homebrew:6900 rec.radio.amateur.policy:44466
rec.radio.shortwave:52712

"ve3..." <ve3iut@hotmail.com> wrote in message
news:1158180534.610502.290400@i42g2000cwa.googlegroups.com...
>
> Unrevealed Source wrote:

```
>> Never had a problem with Paypal.  Ever.  In fact, I generally don't bid
>> on
>> auctions UNLESS the seller takes Paypal.
>>
>> Is it just a coincidence that this collection of horror stories is
>> selling
>> an alternative?
>
""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""
"""""""
> Because of phishing, trojans, and other very smart crooks trying to get
> into my account, and also because of Paypal complaints that are legion,
> there is no way I would link up my main bank account with Paypal. When
> I sell something on ebay, I request payment by a money order, when I
> buy something on ebay I pay by money order. If the seller wants Paypal
> only, I move on to the next listing. I have noticed that more and more
> sellers are glad to accept money orders, especially individuals who are
> selling their own stuff. I have had no problems with Paypal but there
> are just too many really clever scammers working the internet. I
> maintain a tiny account in a different bank to handle fees: if I do get
> hit by a crook, or by Paypal, the loot would only be about $5.00. In
> addition, in Canada, interbank money transfers are safe and inexpensive.
>
with the punce gotcha he wonders why I simple don't bother to ty impoving my
spelling do u hav anyting cognet two say?




--
Posted via a free Usenet account from http://www.teranews.com




From -6636603510353962648
X-Google-Thread: fc2a5,8b0f75f6aac92460
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!usenet.INS.cwru.edu!news-
hog.berkeley.edu!newsfeed.berkeley.edu!ucberkeley!sn-xt-sjc-02!sn-xt-sjc-01!sn-
post-sjc-02!sn-post-sjc-01!supernews.com!corp.supernews.com!not-for-mail
From: "Roger (K8RI)" <ValidAddress@my.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: 4-400 on 6 meters ?
Date: Wed, 13 Sep 2006 18:44:22 -0400
Organization: Posted via Supernews, http://www.supernews.com
Message-ID: <a52hg2pciqpu03gpq8hqqmd3sipoee0kfl@4ax.com>
References: <8dHNg.6868$v%4.777@newsread1.news.pas.earthlink.net>
<0creg2tuibc85e4bfant4vv04huof5rjf2@4ax.com> <Co2dnYDQlpOaaJrYRVnyrQ@pipex.net>
X-Newsreader: Forte Agent 4.0/32.1071
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
X-Complaints-To: abuse@supernews.com
```

Lines: 52
Xref: g2news2.google.com rec.radio.amateur.homebrew:6901

On Wed, 13 Sep 2006 13:09:43 +0100, Highland Ham
<abcgm0csz.kn6whxyz@dsl.pipex.com> wrote:

>Roger (K8RI) wrote:
>> On Tue, 12 Sep 2006 23:16:20 GMT, "SNOWDEN" <snowden@peoplepc.com>
>> wrote:
>>
>>> Anyone been successful in building an amplifier at 6 meters? I have a
>>> couple and was thinking about trying it.
>>
>> I've not seen a 4-400 amp on six,, but they are rated to 110 MHz and
>> the book shows just shy of the legal limit out at 75 MHz.
>>
>> I don't know how difficult the'd be to neutralize.
>> Sounds like fun and I think they'd be a better tube for six than
>> 3-400s or 3-500s.
>======================================
>Up to the mid 1970s type 4-400 transmitting valves (tubes) were used in
>the UK in Band 1 (approx 45-65 MHz)TV transmitters.
>For a 7 kWatts area transmitter there were 7 chassis of 2 valves each.
>So they should be excellent for the 50 MHz amateur band.
>
>A very early design can be found in QST March 1967 ,pages 11 - 15.
>Titled : Six-Meter Kilowatt with 4-400As or4-125As.
>
>The design involves 2 valves (tubes) in push-pull config.
>
>Although push pull RF Power Amps are nowadays no longer or not
>frequently used , I feel it is still interesting reading and might give
>some ideas for a homebrew amplifier.
>

Many years ago, there was an article in QST (I think) that used a pair
of 6C21 radar pulse modulators in Push pull with copper pipe for a
tank circuit. I don't remember what they used for a link but I think
it was just a u-shaped piece of smaller tubing.

That thing would put out today's legal limit with a sneeze. Even more
if you turned the driver on.

Unfortunately 6C21s are big (bout 16" tall), difficult to find, and
expensive. I used to pay $5 USD each.

>If you can't find the article , I can send you a scanned copy of the 5
>pages.
>
>To email me remove the obvious chars from the above address.
>
>Frank   GM0CSZ / KN6WH
Roger Halstead (K8RI & ARRL life member)

```
(N833R, S# CD-2 Worlds oldest Debonair)
www.rogerhalstead.com


From 4590218818818910741
X-Google-Thread: 108122,33ce63f8dc94b9b5
X-Google-Thread: fc2a5,33ce63f8dc94b9b5
X-Google-Thread: 10bf43,33ce63f8dc94b9b5
X-Google-Thread: 114aac,33ce63f8dc94b9b5
X-Google-Attributes: gid108122,gidfc2a5,gid10bf43,gid114aac,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news.glorb.com!newsfeed-
east.nntpserver.com!nntpserver.com!statler.nntpserver.com!hydra.nntpserver.com!
not-for-mail
From: Mark@kb9rqz.com
Newsgroups:
rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.policy,re
c.radio.shortwave
Subject: Re: PayPal horror stories
Date: Wed, 13 Sep 2006 19:11:35 -0400
Message-ID: <k04hg2h09marl25i26vmk47e3vn9r0pej7@4ax.com>
References: <1f7e0$45082966$d1cc5956$22166@snip.allthenewsgroups.com>
<AfYNg.57$wK4.27@newsfe03.lga>
<1158180534.610502.290400@i42g2000cwa.googlegroups.com>
<45086d6e$0$19712$88260bb3@free.teranews.com>
X-Newsreader: Forte Free Agent 3.3/32.846
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 4
NNTP-Posting-Date: 13 Sep 2006 22:15:49 GMT
X-Complaints-To: abuse@teranews.com
Xref: g2news2.google.com rec.radio.amateur.equipment:6138
rec.radio.amateur.homebrew:6902 rec.radio.amateur.policy:44469
rec.radio.shortwave:52725

On Wed, 13 Sep 2006 17:39:04 -0400, <Mark@kb9rqz.com> wrote:

forgery woger
http://kb9rqz.blogspot.com/

--
Posted via a free Usenet account from http://www.teranews.com




From 3510500980345170345
X-Google-Thread: fc2a5,8b0f75f6aac92460
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!newshub.sdsu.edu!newscon04.news.prodigy.net!prodigy.net!
newsdst01.news.prodigy.net!prodigy.com!postmaster.news.prodigy.com!
```

newssvr29.news.prodigy.net.POSTED!e30c9081!not-for-mail
From: "Roger Leone" <raleoneTAKEOUT@sbcglobal.net>
Newsgroups: rec.radio.amateur.homebrew
References: <8dHNg.6868$v%4.777@newsread1.news.pas.earthlink.net>
Subject: Re: 4-400 on 6 meters ?
Lines: 14
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Response
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2869
Message-ID: <CK0Og.921$GR.727@newssvr29.news.prodigy.net>
NNTP-Posting-Host: 68.122.127.191
X-Complaints-To: abuse@prodigy.net
X-Trace: newssvr29.news.prodigy.net 1158191138 ST000 68.122.127.191 (Wed, 13 Sep 2006 19:45:38 EDT)
NNTP-Posting-Date: Wed, 13 Sep 2006 19:45:38 EDT
Organization: SBC http://yahoo.sbc.com
X-UserInfo1: [[PAPDCA[S@WSVXXKZHX_TTDFZ\@@FXLM@TDOCQDJ@_@FN\CDVW[AKK[J\]^HVKHG^EWZHBLO^[\NH_AZFWGN^\DHNVMX_DHHX[FSQKBOTS@@BP^]C@RHS_AGDDC[AJM_T[GZNRNZAY]GNCPBDYKOLK^_CZFWPGHZIXW@C[AFKBBQS@E@DAZ]VDFUNTQQ]FN
Date: Wed, 13 Sep 2006 23:45:38 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:6903

Doug:

It was the wide use of these tubes (along with others like the 4-250 and 4-1000) in the TV and FM broadcasting industry that made them so plentiful and allowed "used pulls" to be so readily available to hams. Amp designs using them have been around for decades. I just looked in the 1965 ARRL handbook and they have a 4-250 amp for 6 meters. A little homework should turn up many more.

Good luck,

Roger K6XQ

From 7148912522316651313
X-Google-Thread: fc2a5,240d14d42b84713
X-Google-Thread: 112d1e,240d14d42b84713
X-Google-Thread: 10b271,240d14d42b84713
X-Google-Attributes: gidfc2a5,gid112d1e,gid10b271,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!border1.nntp.dca.giganews.com!nntp.giganews.com!wns13feed!worldnet.att.net!attbi_s72.POSTED!53ab2750!not-for-mail
From: Sam Wormley <swormley1@mchsi.com>
Organization: None Needed
User-Agent: Thunderbird 1.5.0.5 (X11/20060801)

```
MIME-Version: 1.0
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design,sci.physics
Subject: Re: Carl and Jerry adventures, 1964 Pop Electronics
References: <1158180072.943155.211630@e3g2000cwe.googlegroups.com>
In-Reply-To: <1158180072.943155.211630@e3g2000cwe.googlegroups.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 29
Message-ID: <7Y0Og.186303$1i1.65874@attbi_s72>
NNTP-Posting-Host: 12.216.0.120
X-Complaints-To: abuse@mchsi.com
X-Trace: attbi_s72 1158192003 12.216.0.120 (Thu, 14 Sep 2006 00:00:03 GMT)
NNTP-Posting-Date: Thu, 14 Sep 2006 00:00:03 GMT
Date: Thu, 14 Sep 2006 00:00:03 GMT
Xref: g2news2.google.com rec.radio.amateur.homebrew:6904
sci.electronics.design:96944 sci.physics:139435

billb@eskimo.com wrote:
> This from those guys who were making an online archive of old Popular
> Electronics mags:
>
>   Carl and Jerry stories  (J. Frye, Pop Electronics 1954 - 1964)
>   http://home.gwi.net/~jdebell/pe/cj/cnjindex.htm
>
> example:
>
>   "The Girl Detector"
>   http://home.gwi.net/~jdebell/pe/cj/v20-1.htm
>
>
>
> Also another PE archive:
>
>    Pop. Electronics magazine covers and various projects, jpeg
>
> http://www.swtpc.com/mholley/PopularElectronics/Popular_Electronics.htm
>
>
> ((((((((((((((((((((((( (  (    (o)    )  ) )))))))))))))))))))))))
> William J. Beaty              http://staff.washington.edu/wbeaty/
> Research Engineer             UW Chem Dept,  Bagley Hall RM74
> beaty@chem.washington.edu     Box 351700, Seattle, WA 98195-1700
> ph:206-543-6195 fax:206-685-8665
>

   Thank You!


From 3677173849416534837
X-Google-Thread: fc2a5,240d14d42b84713
X-Google-Thread: 112d1e,240d14d42b84713
X-Google-Thread: 10b271,240d14d42b84713
X-Google-Attributes: gidfc2a5,gid112d1e,gid10b271,public
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!postnews.google.com!e63g2000cwd.googlegroups.com!not-for-
mail
From: "Bill Beaty" <billb@eskimo.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design,sci.physics
Subject: Re: Carl and Jerry adventures, 1964 Pop Electronics
Date: 13 Sep 2006 17:15:58 -0700
Organization: http://groups.google.com
Lines: 27
Message-ID: <1158192958.918418.299530@e63g2000cwd.googlegroups.com>
References: <1158180072.943155.211630@e3g2000cwe.googlegroups.com>
   <ee9rda$pl1$1@puck.litech.org>
NNTP-Posting-Host: 128.95.172.173
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1158192964 6360 127.0.0.1 (14 Sep 2006 00:16:04 GMT)
X-Complaints-To: groups-abuse@google.com
NNTP-Posting-Date: Thu, 14 Sep 2006 00:16:04 +0000 (UTC)
In-Reply-To: <ee9rda$pl1$1@puck.litech.org>
User-Agent: G2/1.0
X-HTTP-UserAgent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.0.6)
Gecko/20060728 Firefox/1.5.0.6,gzip(gfe),gzip(gfe)
Complaints-To: groups-abuse@google.com
Injection-Info: e63g2000cwd.googlegroups.com; posting-host=128.95.172.173;
   posting-account=CQ9PuAwAAAAoHVi7bjgRC2reWcC3o5Sl
Xref: g2news2.google.com rec.radio.amateur.homebrew:6905
sci.electronics.design:96961 sci.physics:139437
```

Mike Andrews wrote:

> _OUTStanding_!
>
> Thanks very much indeed.

Stolen from http://makezine.com/blog/

http://www.makezine.com/blog/archive/2006/08/carl_jerry_adventure_in_electr.html

Carl & Jerry were way before my time, but one summer vacation I ran out of science books in our library's children section. So I got permission to start reading all the back issues of Pop Electronics on microfilm. Found lots of cool stuff from back before I was born!

```
((((((((((((((((((((( (  (    (o)    )  ) )))))))))))))))))))))
William J. Beaty              http://staff.washington.edu/wbeaty/
Research Engineer             UW Chem Dept,  Bagley Hall RM74
beaty@chem.washington.edu     Box 351700, Seattle, WA 98195-1700
```

ph:206-543-6195 fax:206-685-8665

From -4087396250278288763
X-Google-Thread: fc2a5,107de48dd3d2d81b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!
69.28.186.75.MISMATCH!hwmnpeer01.lga!news.highwinds-media.com!
bigfeed2.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!
news.bellsouth.net!bignews7.bellsouth.net.POSTED!ef49a7c3!not-for-mail
From: Ted <kilocycles**@**yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RFSim99 anomalies
Message-ID: <gh7hg2hnptgp18lbptt0tk9ung6v6hevu8@4ax.com>
References: <1157140937.062925.222160@74g2000cwt.googlegroups.com>
<1157826213.298242.106000@b28g2000cwb.googlegroups.com>
X-Newsreader: Forte Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 37
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
enggpaojkliedbjjdbdpiflmbcekedmfhojhikkbagflhcbokfhlbmkbaeefefnbkaikhjbiabbhpmplok
ompnccapjgkdbfhiflhmddniifjhbmhminfcionimjcnobfikpnmiphckibdhmdkehkakpdiifjjea
NNTP-Posting-Date: Wed, 13 Sep 2006 20:26:34 EDT
Organization: BellSouth Internet Group
Date: Wed, 13 Sep 2006 20:26:41 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:6906

On 9 Sep 2006 11:23:33 -0700, "Professor" <briangriffey@sbcglobal.net>
wrote:

>
>K7ITM wrote:
>> Hi all,
>>
>> Every once in a while I come across an anomaly in RFSim99. I'd be
>> happy if someone could tell me that I'm doing something wrong in the
>> following:
>>
>> Fire up the simulator. Tools-->Design-->Attenuator. Pi Section, 50R
>> input impedance, 50R output impedance, 10dB attenuation. Simulate.
>> !Current schematic will be overwritten; OK. Now note that the graphics
>> window displays S11 as 2E+31dB.
>>
>> In the circuit window, edit the values of the two 96.25 ohm resistors;
>> they have apparently been simulated to more decimal places than shown.
>> Just manually enter 96.25 ohms for each. Now the magnitude of S11 and

>> S22 show up as -102.69dB; that seems reasonable. The phases for S11, S12, S21 and S22 are all zero. Now, from the graphics window,
---snip---

Aarrgg! This is very disappointing! I usually check at least my values for LC circuits against the LADPAC programs In "Experimental Methods in RF Design", however. By the way, when I click on Tools/DesignAttenuator, the schematic that is in the pop-up window for default 10 dB shows the three resistor values as 71.151 and 96.248. When I go through the process you did, I get the same results. I saved the file, and closed and reopened the program. Then, I loaded the saved 10dBAtten.cct file, and of course got the same -102.69 dB for S11. Then, I Tuned the values back to 71.151 (which immediately displayed only 71.15), and tuned the other two to 96.248, (which displayed 96.25). When I simulated, S11 was now -107 dB!

Regards,
Ted KX4OM

From 4506545983889427733
X-Google-Thread: fc2a5,107de48dd3d2d81b
X-Google-Attributes: gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!border2.nntp.dca.giganews.com!nntp.giganews.com!bigfeed3.bellsouth.net!bigfeed.bellsouth.net!bignumber.bellsouth.net!news.bellsouth.net!bignews4.bellsouth.net.POSTED!ef49a7c3!not-for-mail
From: Ted <kilocycles**@**yahoo.com>
Newsgroups: rec.radio.amateur.homebrew
Subject: Re: RFSim99 anomalies
Message-ID: <g49hg2dsslmn4a1u248a5k3popg9ir8gng@4ax.com>
References: <1157140937.062925.222160@74g2000cwt.googlegroups.com>
<1157826213.298242.106000@b28g2000cwb.googlegroups.com>
<gh7hg2hnptgp18lbptt0tk9ung6v6hevu8@4ax.com>
X-Newsreader: Forte Agent 3.1/32.783
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 57
X-Complaints-To: abuse@bellsouth.net
X-Abuse-Info: Please forward a copy of all headers for proper handling
X-Trace:
npbhgpngjbkmjfegdbdpiflmbcekedmfhojhikkbagflhcbocndiinhaeofiflikaebckapdlcgdmfgdok
ompnccapjgkdbfhiflhmddniifjhbmhminfcionimjcnobbklcjnojkojidkenpbccjefcndnnmbpb
NNTP-Posting-Date: Wed, 13 Sep 2006 20:45:00 EDT
Organization: BellSouth Internet Service
Date: Wed, 13 Sep 2006 20:49:10 -0400
Xref: g2news2.google.com rec.radio.amateur.homebrew:6907

On Wed, 13 Sep 2006 20:26:41 -0400, Ted <kilocycles**@**yahoo.com>
wrote:

>On 9 Sep 2006 11:23:33 -0700, "Professor" <briangriffey@sbcglobal.net>
>wrote:
>
>>
>>K7ITM wrote:
>>> Hi all,
>>>
>>> Every once in a while I come across an anomaly in RFSim99. I'd be
>>> happy if someone could tell me that I'm doing something wrong in the
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>>>
>>> Fire up the simulator. Tools-->Design-->Attenuator. Pi Section, 50R
>>> input impedance, 50R output impedance, 10dB attenuation. Simulate.
>>> !Current schematic will be overwritten; OK. Now note that the graphics
>>> window displays S11 as 2E+31dB.
>>>
>>> In the circuit window, edit the values of the two 96.25 ohm resistors;
>>> they have apparently been simulated to more decimal places than shown.
>>> Just manually enter 96.25 ohms for each. Now the magnitude of S11 and
>>> S22 show up as -102.69dB; that seems reasonable. The phases for S11,
>>> S12, S21 and S22 are all zero. Now, from the graphics window,
>---snip---
>
>Aarrgg! This is very disappointing! I usually check at least my
>values for LC circuits against the LADPAC programs In "Experimental
>Methods in RF Design", however. By the way, when I click on
>Tools/DesignAttenuator, the schematic that is in the pop-up window for
>default 10 dB shows the three resistor values as 71.151 and 96.248.
>When I go through the process you did, I get the same results. I
>saved the file, and closed and reopened the program. Then, I loaded
>the saved 10dBAtten.cct file, and of course got the same -102.69 dB
>for S11. Then, I Tuned the values back to 71.151 (which immediately
>displayed only 71.15), and tuned the other two to 96.248, (which
>displayed 96.25). When I simulated, S11 was now -107 dB!
>
>Regards,
>Ted KX4OM

I just ran the simulation in the LADPAC programs. I first built the attenuator in Ladbuild, with the resistors rounded off to two decimal places, and saved the result. In GPLA, I got (after resetting the scale to -120 dB) S11= -107.3. Then I edited the values to the 3 decimal place values from the original attenuator pop-up window of RFSim99, and got S11=-121.67.

The circuit review feature of GPLA still showed 2 decimal places, rounded off, but saving that version of the attenuator and opening the saved program in Ladbuild showed three decimal place values when clicking on the component.

It's surprising how a couple of thousandths of an ohm can change the S parameters that much.

Ted KX4OM

```
From 7819753967779108088
X-Google-Thread: fc2a5,240d14d42b84713
X-Google-Thread: 112d1e,240d14d42b84713
X-Google-Thread: 10b271,240d14d42b84713
X-Google-Attributes: gidfc2a5,gid112d1e,gid10b271,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!border1.nntp.dca.giganews.com!
border2.nntp.dca.giganews.com!nntp.giganews.com!cyclone1.gnilink.net!
spamkiller.gnilink.net!gnilink.net!trnddc04.POSTED!dd653b87!not-for-mail
From: Rich Grise <rich@example.net>
Subject: Re: Carl and Jerry adventures, 1964 Pop Electronics
User-Agent: Pan/0.14.2.91 (As She Crawled Across the Table)
Message-Id: <pan.2006.09.14.00.55.21.26563@example.net>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design,sci.physics
References: <1158180072.943155.211630@e3g2000cwe.googlegroups.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Lines: 19
Date: Thu, 14 Sep 2006 00:55:43 GMT
NNTP-Posting-Host: 71.103.151.142
X-Complaints-To: abuse@verizon.net
X-Trace: trnddc04 1158195343 71.103.151.142 (Wed, 13 Sep 2006 20:55:43 EDT)
NNTP-Posting-Date: Wed, 13 Sep 2006 20:55:43 EDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:6908
sci.electronics.design:96984 sci.physics:139446
```

On Wed, 13 Sep 2006 13:41:13 -0700, billb wrote:

> This from those guys who were making an online archive of old Popular
> Electronics mags:
>
>   Carl and Jerry stories (J. Frye, Pop Electronics 1954 - 1964)
>   http://home.gwi.net/~jdebell/pe/cj/cnjindex.htm
>

Dewd! I recognized the title of this one:
http://home.gwi.net/~jdebell/pe/cj/v18-3.htm
"Succoring a Soroban", and within two sentences I split a gut.

They probably wouldn't be allowed to publish such politically incorrect
stuff these days. ;-)

Cheers!
Rich

```
From -3145455846884589777
X-Google-Thread: fc2a5,240d14d42b84713
```

```
X-Google-Thread: 112d1e,240d14d42b84713
X-Google-Thread: 10b271,240d14d42b84713
X-Google-Attributes: gidfc2a5,gid112d1e,gid10b271,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!border1.nntp.dca.giganews.com!
nntp.giganews.com!nx01.iad01.newshosting.com!newshosting.com!news-
feed01.roc.ny.frontiernet.net!nntp.frontiernet.net!news.sisna.com!not-for-mail
From: "RST Engineering" <jim@rstengineering.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design,sci.physics
References: <1158180072.943155.211630@e3g2000cwe.googlegroups.com>
Subject: Re: Carl and Jerry adventures, 1964 Pop Electronics
Lines: 19
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-RFC2646: Format=Flowed; Original
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
Message-ID: <H62Og.50$UZ3.18451@news.sisna.com>
Date: Wed, 13 Sep 2006 18:19:18 -0700
NNTP-Posting-Host: 70.41.242.222
X-Complaints-To: newsabuse@ikano.com
X-Trace: news.sisna.com 1158196775 70.41.242.222 (Wed, 13 Sep 2006 19:19:35 MDT)
NNTP-Posting-Date: Wed, 13 Sep 2006 19:19:35 MDT
Organization: Internet News Service
X-Received-Date: Wed, 13 Sep 2006 19:19:35 MDT (news.sisna.com)
Xref: g2news2.google.com rec.radio.amateur.homebrew:6909
sci.electronics.design:96993 sci.physics:139454
```

I'd give a lot to get a copy of a PE article that ran in the (I believe) 58-60 time period regarding a "Game of 21" that was played with a telephone stepping relay, where it was "you against the computer". I'd like to do a discrete digital version for my freshman students as a lab project.

Designing the logic is simple; giving out a copy of "how we did it in the '50s" is priceless.

Jim

<billb@eskimo.com> wrote in message
news:1158180072.943155.211630@e3g2000cwe.googlegroups.com...
>
> This from those guys who were making an online archive of old Popular
> Electronics mags:

```
From -5448406338799320539
X-Google-Thread: fc2a5,240d14d42b84713
X-Google-Thread: 112d1e,240d14d42b84713
X-Google-Thread: 10b271,240d14d42b84713
```

```
X-Google-Attributes: gidfc2a5,gid112d1e,gid10b271,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!news.glorb.com!
newsfeed2.telusplanet.net!newsfeed.telus.net!edtnps90.POSTED!53ab2750!not-for-mail
From: "Homer J Simpson" <nobody@nowhere.com>
Newsgroups: rec.radio.amateur.homebrew,sci.electronics.design,sci.physics
References: <1158180072.943155.211630@e3g2000cwe.googlegroups.com>
<H62Og.50$UZ3.18451@news.sisna.com>
Subject: Re: Carl and Jerry adventures, 1964 Pop Electronics
Lines: 26
X-Priority: 3
X-MSMail-Priority: Normal
X-Newsreader: Microsoft Outlook Express 6.00.2900.2869
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2962
X-RFC2646: Format=Flowed; Response
Message-ID: <so2Og.9308$bf5.6739@edtnps90>
Date: Thu, 14 Sep 2006 01:38:32 GMT
NNTP-Posting-Host: 209.121.230.219
X-Trace: edtnps90 1158197912 209.121.230.219 (Wed, 13 Sep 2006 19:38:32 MDT)
NNTP-Posting-Date: Wed, 13 Sep 2006 19:38:32 MDT
Xref: g2news2.google.com rec.radio.amateur.homebrew:6910
sci.electronics.design:97001 sci.physics:139459
```

"RST Engineering" <jim@rstengineering.com> wrote in message
news:H62Og.50$UZ3.18451@news.sisna.com...

> I'd give a lot to get a copy of a PE article that ran in the (I believe) 58-60 time period regarding a "Game of 21" that was played with a telephone stepping relay, where it was "you against the computer". I'd like to do a discrete digital version for my freshman students as a lab project.
>
> Designing the logic is simple; giving out a copy of "how we did it in the '50s" is priceless.

See http://groups.yahoo.com/group/friendsofdigicomp/

```
From -4766167046257146121
X-Google-Thread: 10ed5f,b90c4a00d51cae34
```

X-Google-Thread: 109b94,b90c4a00d51cae34
X-Google-Thread: fcc6e,b90c4a00d51cae34
X-Google-Thread: fc2a5,b90c4a00d51cae34
X-Google-Attributes: gid10ed5f,gid109b94,gidfcc6e,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!newshub.sdsu.edu!elnk-nf2-pas!newsfeed.earthlink.net!stamper.news.pas.earthlink.net!newsread4.news.pas.earthlink.net.POSTED!b1a104da!not-for-mail
Message-ID: <4508FAB8.1543AE22@earthlink.net>
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Reply-To: mike.terrell@earthlink.net
Organization: http://home.earthlink.net/~mike.terrell/
X-Mailer: Mozilla 4.78 [en]C-CCK-MCD   (Win98; U)
X-Accept-Language: en
MIME-Version: 1.0
Newsgroups: alt.ham-radio,rec.boats.electronics,rec.radio.amateur.antenna,rec.radio.amateur.homebrew
Subject: Re: Coax Connectors & Adapters - High Quality@ Low Cost
References: <mxWNg.20259$RD.1342@fed1read08>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Lines: 17
Date: Thu, 14 Sep 2006 06:46:54 GMT
NNTP-Posting-Host: 24.110.34.161
X-Complaints-To: abuse@earthlink.net
X-Trace: newsread4.news.pas.earthlink.net 1158216414 24.110.34.161 (Wed, 13 Sep 2006 23:46:54 PDT)
NNTP-Posting-Date: Wed, 13 Sep 2006 23:46:54 PDT
Xref: g2news2.google.com alt.ham-radio:1214 rec.boats.electronics:3833 rec.radio.amateur.antenna:18314 rec.radio.amateur.homebrew:6911

AAA RF Products wrote:
>
> Please see www.aaarfproducts.com

Its a great site if you want no name connectors and coax so bad that radio shack would be ashamed to sell it. I see that he no longer posts his e-mail address in his spam. He's a foul mouthed pain in the ass.

--
Service to my country? Been there, Done that, and I've got my DD214 to prove it.
Member of DAV #85.

Michael A. Terrell
Central Florida

From 6983245350917659208
X-Google-Thread: 10bf43,5e527bf4b31f44c2,start
X-Google-Thread: 107ada,5e527bf4b31f44c2,start

```
X-Google-Thread: fc8b1,5e527bf4b31f44c2,start
X-Google-Thread: 108122,5e527bf4b31f44c2,start
X-Google-Thread: fc2a5,5e527bf4b31f44c2,start
X-Google-Attributes: gid10bf43,gid107ada,gidfc8b1,gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 14 Sep 2006 10:17:04 -0500
Date: Thu, 14 Sep 2006 11:16:41 -0400
From: NoMoreSpam <Disgustedham@qrparci.org>
User-Agent: Thunderbird 1.5.0.5 (X11/20060719)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.amateur.swap,rec.radio.a
mateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radi
o.amateur,alt.ham.radio,rec.ham-radio
Subject: QRP-ARCI
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <k8-dnako2r3s75TYnZ2dnUVZ_sWdnZ2d@comcast.com>
Lines: 7
NNTP-Posting-Host: 68.44.216.166
X-Trace: sv3-
rwmocxANIWHxCR3AQatAZFOuYqnmP3UPP0GFgGoxCeLoaLue+LTU4iK0MeXUhr7c+ld8x2w4xzBH1r0!
kRwSGEB32oIZq/0uUweeRFeXIjSFZZH71gQNLiiL1CReV3IJzzlAK0V1UY0kW58Ib2ydn3Pya3SA!
vh31UbjX+GWEAVFS3Ohj
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.policy:44552
rec.radio.amateur.misc:21549 rec.radio.amateur.boatanchors:5364
rec.radio.amateur.equipment:6147 rec.radio.amateur.homebrew:6912
```

For a disgusting example of what happens when a small minded petty group decides to have a vendetta against a member.

http://w2agn/qrparci.html

Also what happens when we allow any foreign power, including the British, to take over an American institution.

```
From -3822001899623118759
X-Google-Thread: 10bf43,5e527bf4b31f44c2
X-Google-Thread: 107ada,5e527bf4b31f44c2
X-Google-Thread: fc8b1,5e527bf4b31f44c2
X-Google-Thread: 108122,5e527bf4b31f44c2
X-Google-Thread: fc2a5,5e527bf4b31f44c2
X-Google-Attributes: gid10bf43,gid107ada,gidfc8b1,gid108122,gidfc2a5,public
```

```
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news4.google.com!news3.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.rcn.net!news.rcn.net.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 14 Sep 2006 10:50:39 -0500
Date: Thu, 14 Sep 2006 11:50:19 -0400
From: Chuck Harris <cf-NO-SPAM-harris@erols.com>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.8.0.6) Gecko/20060730
SeaMonkey/1.0.4
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.amateur.swap,rec.radio.a
mateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radi
o.amateur,alt.ham.radio,rec.ham-radio
Subject: Re: QRP-ARCI
References: <k8-dnako2r3s75TYnZ2dnUVZ_sWdnZ2d@comcast.com>
In-Reply-To: <k8-dnako2r3s75TYnZ2dnUVZ_sWdnZ2d@comcast.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Message-ID: <zfSdnTperaTN55TYnZ2dnUVZ_o2dnZ2d@rcn.net>
Lines: 13
NNTP-Posting-Host: 66.44.105.246
X-Trace: sv3-KzgJhIIzN+NVaYkIx+SlER/ky5SlMg+cfGJv2k+fGedo0Ui7ytE+VCmjle9fLiwi/
5uieCGcVWlSgk+!
eQxANRRJg9SB5e4XdXMHl6/0lGwHUNGSGfv8ouSADpRIpuwilcU2SXnHexCiWI3tYFx1dINvDvkU!UA==
X-Complaints-To: abuse@rcn.net
X-DMCA-Complaints-To: abuse@rcn.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.policy:44554
rec.radio.amateur.misc:21551 rec.radio.amateur.boatanchors:5365
rec.radio.amateur.equipment:6148 rec.radio.amateur.homebrew:6913

NoMoreSpam wrote:
> For a disgusting example of what happens when a small minded petty group
> decides to have a vendetta against a member.
>
> http://w2agn/qrparci.html
>
> Also what happens when we allow any foreign power, including the
> British, to take over an American institution.

Your righteous indignation would probably have worked better if you
had provided a valid URL.

-Chuck


From 5236082360357304458
X-Google-Thread: 10bf43,5e527bf4b31f44c2
X-Google-Thread: 107ada,5e527bf4b31f44c2
```

```
X-Google-Thread: fc8b1,5e527bf4b31f44c2
X-Google-Thread: 108122,5e527bf4b31f44c2
X-Google-Thread: fc2a5,5e527bf4b31f44c2
X-Google-Attributes: gid10bf43,gid107ada,gidfc8b1,gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news2.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 14 Sep 2006 11:59:22 -0500
Message-ID: <45098A53.4000707@qrparci.org>
Date: Thu, 14 Sep 2006 12:58:59 -0400
From: NoMoreSpam <Disgustedham@qrparci.org>
User-Agent: Thunderbird 1.5.0.5 (X11/20060719)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.amateur.swap,rec.radio.a
mateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radi
o.amateur,alt.ham.radio,rec.ham-radio
To: Chuck Harris <cf-NO-SPAM-harris@erols.com>
Subject: Re: QRP-ARCI
References: <k8-dnako2r3s75TYnZ2dnUVZ_sWdnZ2d@comcast.com>
<zfSdnTperaTN55TYnZ2dnUVZ_o2dnZ2d@rcn.net>
In-Reply-To: <zfSdnTperaTN55TYnZ2dnUVZ_o2dnZ2d@rcn.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 21
NNTP-Posting-Host: 68.44.216.166
X-Trace: sv3-LiMXO747CrILrIrX9i1zczH/vrxwUnq+71p+ZtN64hJlMGgg/
CVio7UARHMfvibenKv4kSkM4LVmBNq!ZmTm9ygHEuc2BhxqgDbkUCP626kiDh/
93F+kBbSOsIFKKI4t30xvA/uEMnWxYliVIqErCmLQ12c=
X-Complaints-To: abuse@comcast.net
X-DMCA-Complaints-To: dmca@comcast.net
X-Abuse-and-DMCA-Info: Please be sure to forward a copy of ALL headers
X-Abuse-and-DMCA-Info: Otherwise we will be unable to process your complaint
properly
X-Postfilter: 1.3.32
Xref: g2news2.google.com rec.radio.amateur.policy:44577
rec.radio.amateur.misc:21572 rec.radio.amateur.boatanchors:5366
rec.radio.amateur.equipment:6149 rec.radio.amateur.homebrew:6914

Chuck Harris wrote:
> NoMoreSpam wrote:
>> For a disgusting example of what happens when a small minded petty
>> group decides to have a vendetta against a member.
>>
>> http://w2agn/qrparci.html
>>
>> Also what happens when we allow any foreign power, including the
>> British, to take over an American institution.
>
> Your righteous indignation would probably have worked better if you
> had provided a valid URL.
>
```

> -Chuck

You are correct. That's what happens when one gets freally p*ssed off! The URL should be:

http://w2agn.net/qrparci.html

Thanks Chuck!

```
From 2367689318837429147
X-Google-Thread: 10bf43,5e527bf4b31f44c2
X-Google-Thread: 107ada,5e527bf4b31f44c2
X-Google-Thread: fc8b1,5e527bf4b31f44c2
X-Google-Thread: 108122,5e527bf4b31f44c2
X-Google-Thread: fc2a5,5e527bf4b31f44c2
X-Google-Attributes: gid10bf43,gid107ada,gidfc8b1,gid108122,gidfc2a5,public
X-Google-Language: ENGLISH,ASCII-7-bit
Path: g2news2.google.com!news3.google.com!news4.google.com!
border1.nntp.dca.giganews.com!nntp.giganews.com!local02.nntp.dca.giganews.com!
nntp.comcast.com!news.comcast.com.POSTED!not-for-mail
NNTP-Posting-Date: Thu, 14 Sep 2006 12:00:07 -0500
Message-ID: <45098A80.4040501@qrparci.org>
Date: Thu, 14 Sep 2006 12:59:44 -0400
From: NoMoreSpam <Disgustedham@qrparci.org>
User-Agent: Thunderbird 1.5.0.5 (X11/20060719)
MIME-Version: 1.0
Newsgroups:
rec.radio.amateur.policy,rec.radio.amateur.misc,rec.radio.amateur.swap,rec.radio.a
mateur.boatanchors,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radi
o.amateur,alt.ham.radio,rec.ham-radio
To: Chuck Harris <cf-NO-SPAM-harris@erols.com>
Subject: Re: QRP-ARCI
References: <k8-dnako2r3s75TYnZ2dnUVZ_sWdnZ2d@comcast.com>
<zfSdnTperaTN55TYnZ2dnUVZ_o2dnZ2d@rcn.net>
In-Reply-To: <zfSdnTperaTN55TYnZ2dnUVZ_o2dnZ2d@rcn.net>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
Lines: 21
NNTP-Posting-Host: 68.44.216.166
X-Trace: sv3-lely23ajcMrb9eNhZ51X7zgkv69aODsQaHf0aRE2HmwVAUPuq8pyGd1ZgvtLrISaypEE/
```